

Appendix A for KSCR210900000601

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	4.301	4.402	97.71	0.10	0.03
		2437	4.302	4.405	97.66	0.10	0.07
		2462	4.301	4.402	97.71	0.10	0.03
802.11g	SISO	2412	0.724	0.830	87.23	0.59	0.06
		2437	0.724	0.831	87.12	0.60	0.06
		2462	0.724	0.831	87.12	0.60	0.06
802.11n (HT20)	SISO	2412	1.335	1.442	92.58	0.33	0.03
		2437	1.336	1.442	92.65	0.33	0.03
		2462	1.335	1.442	92.58	0.33	0.03

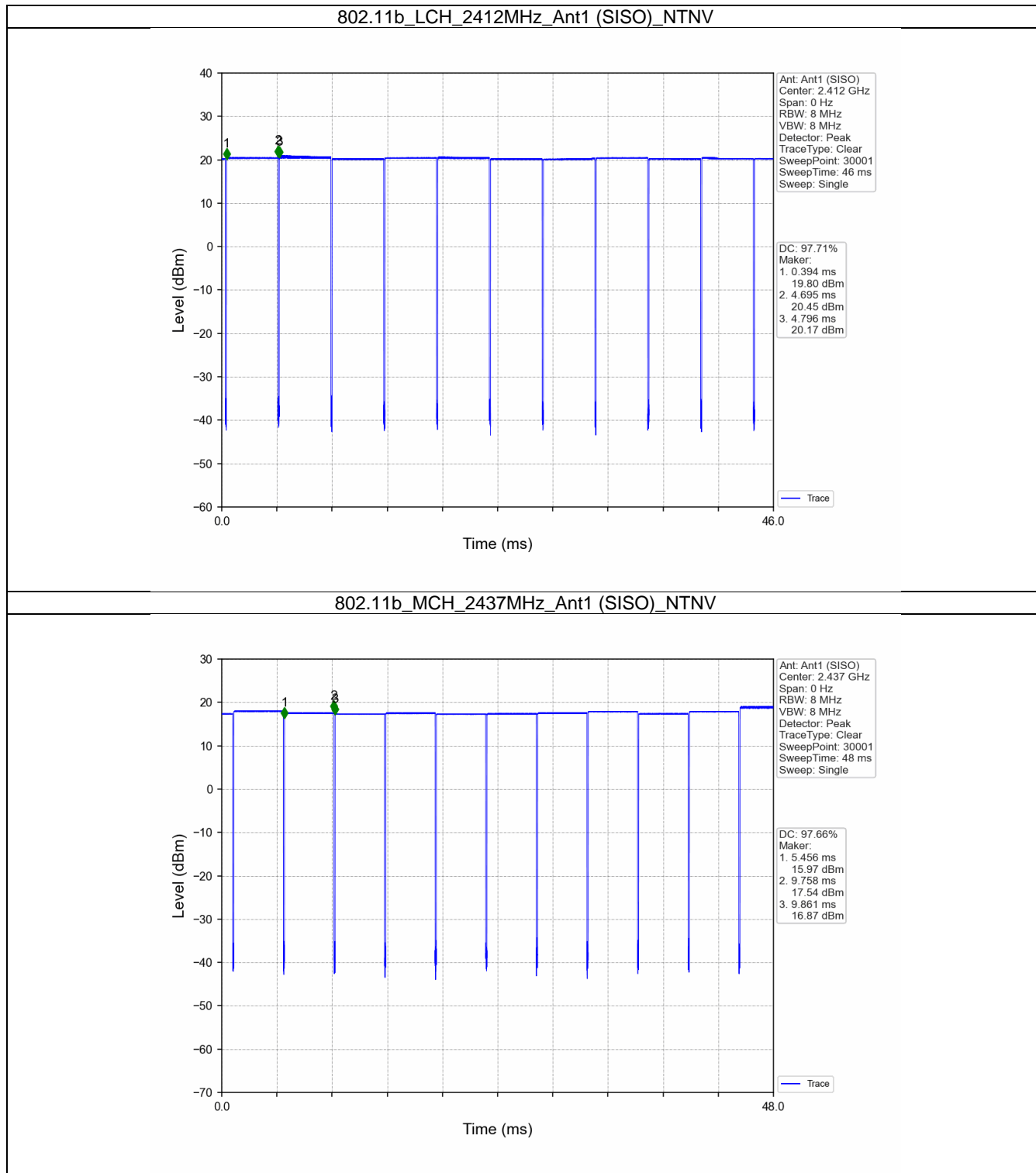


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1.1.2 Test Graph

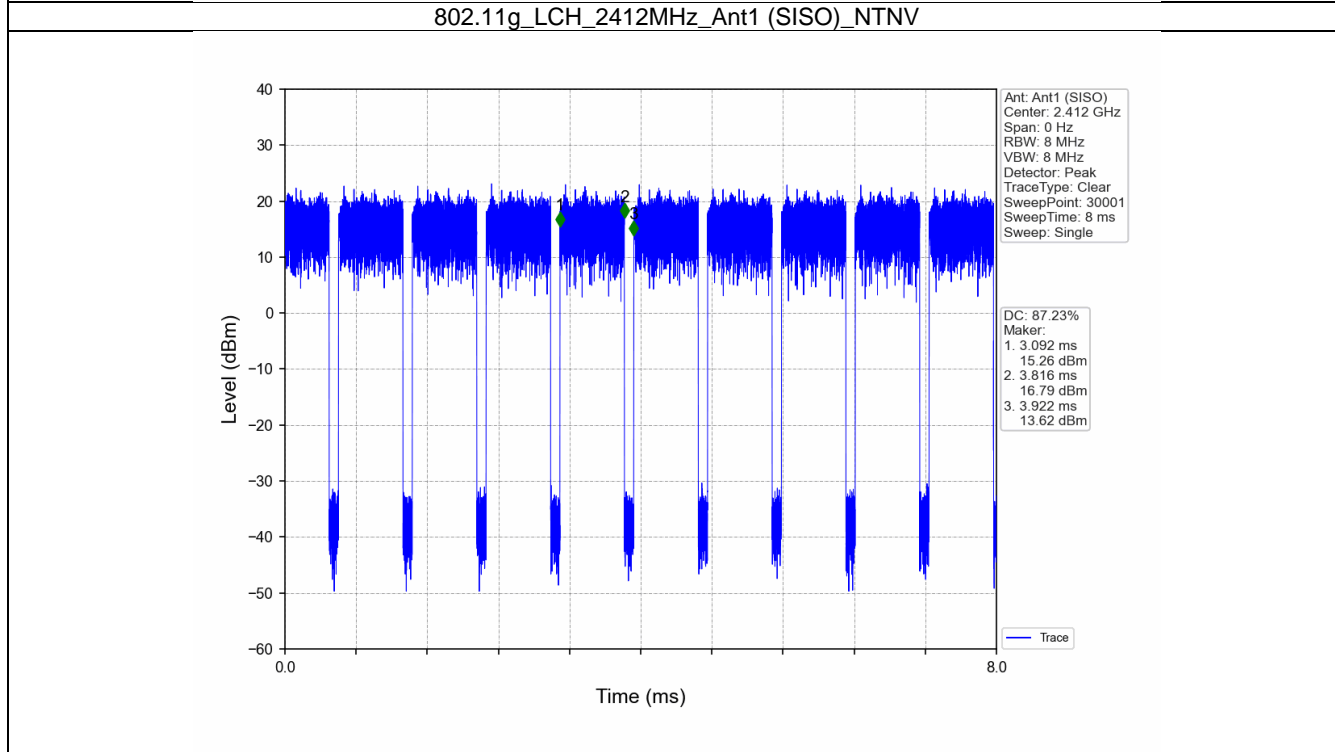
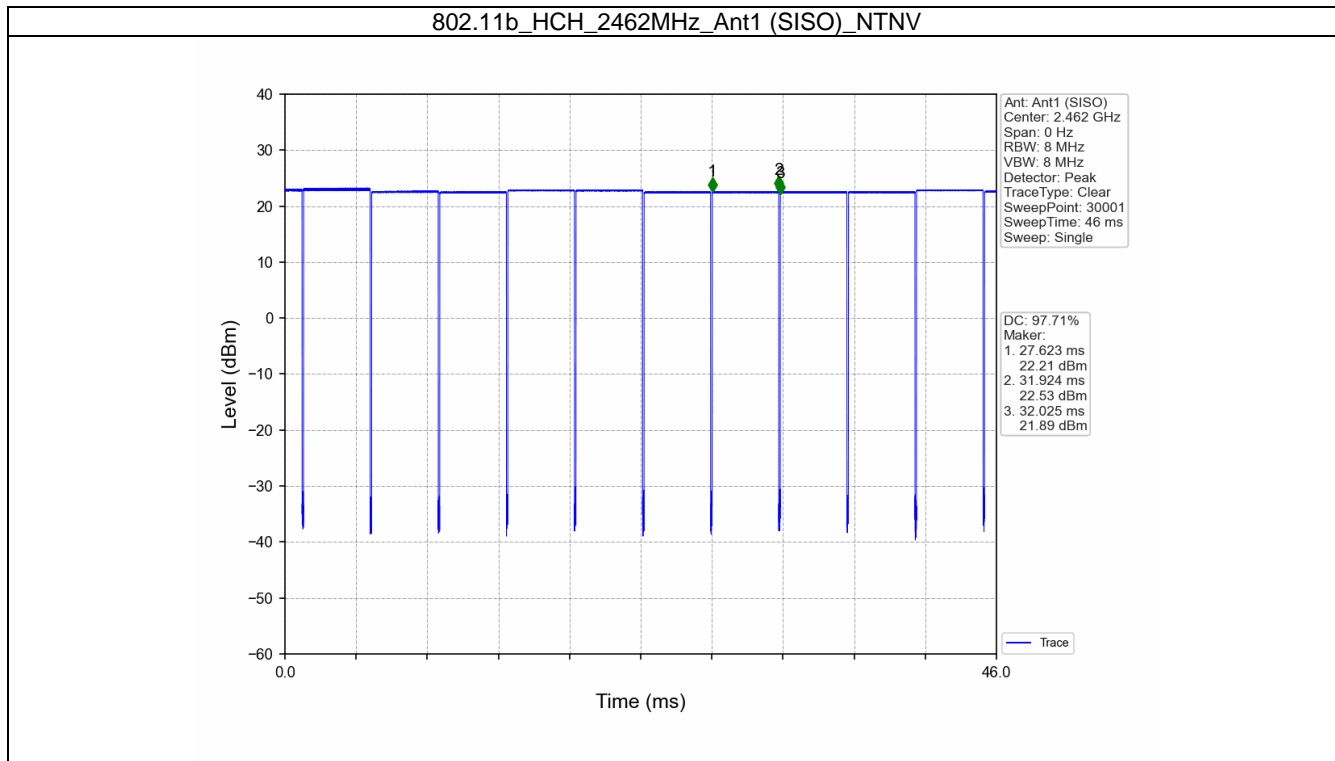


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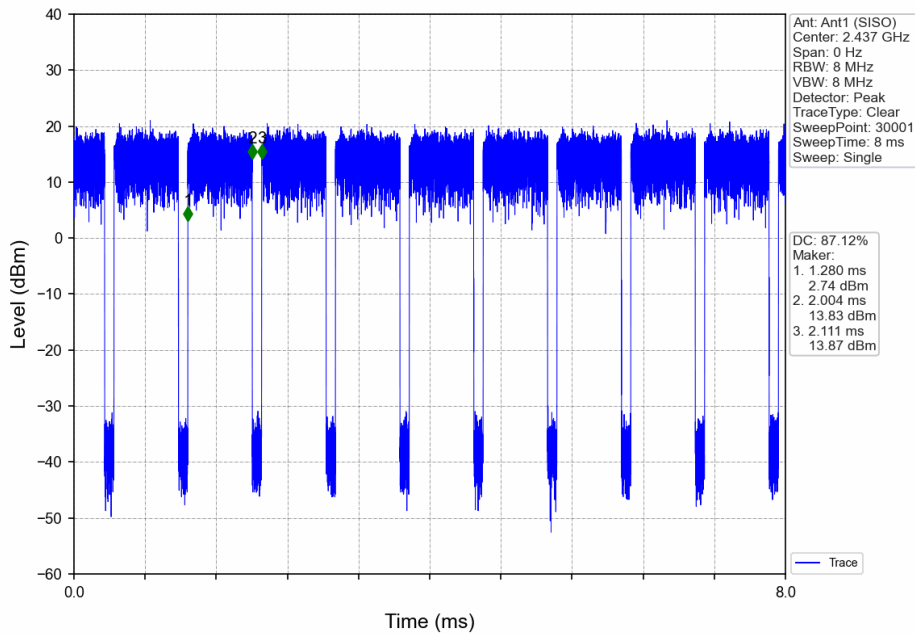
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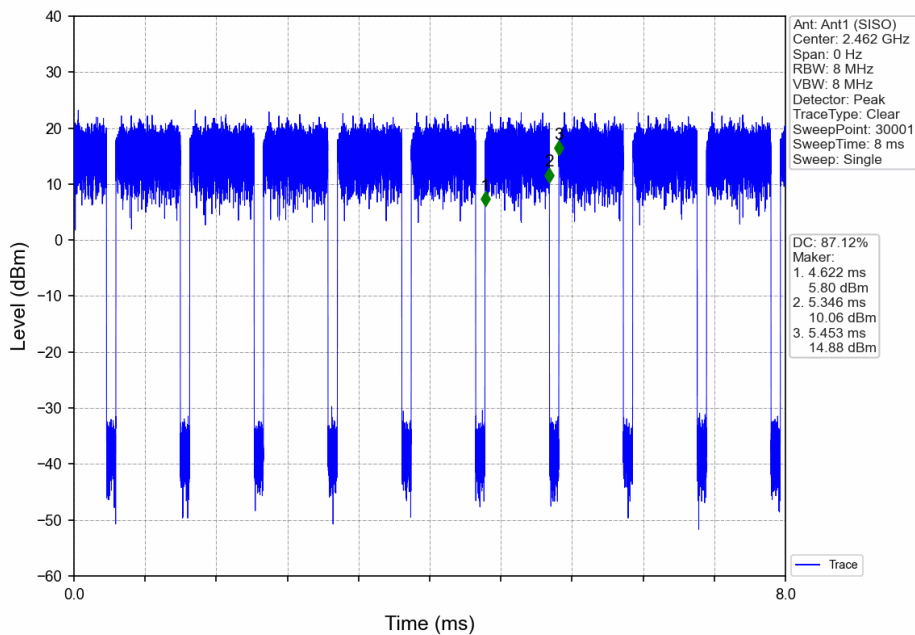
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

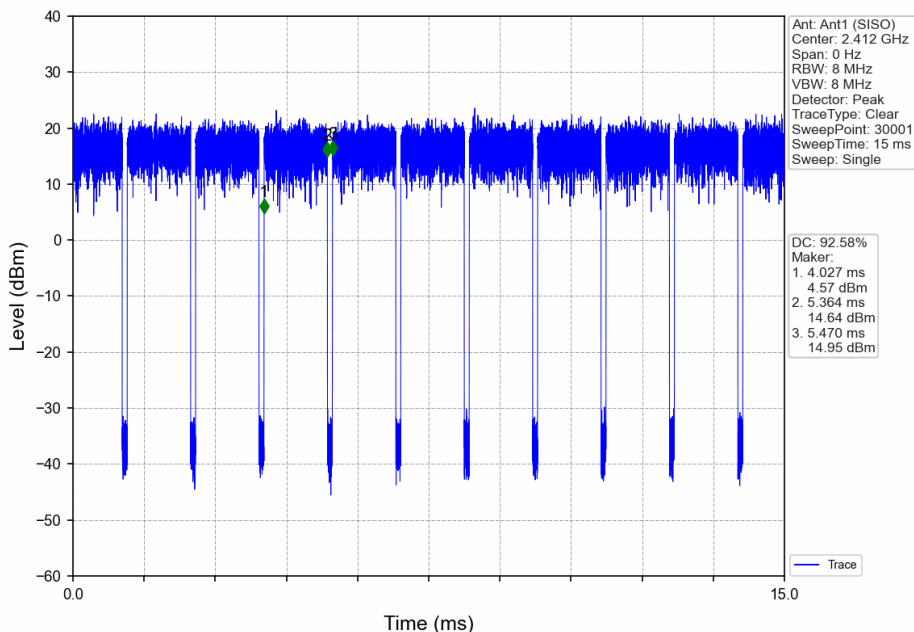


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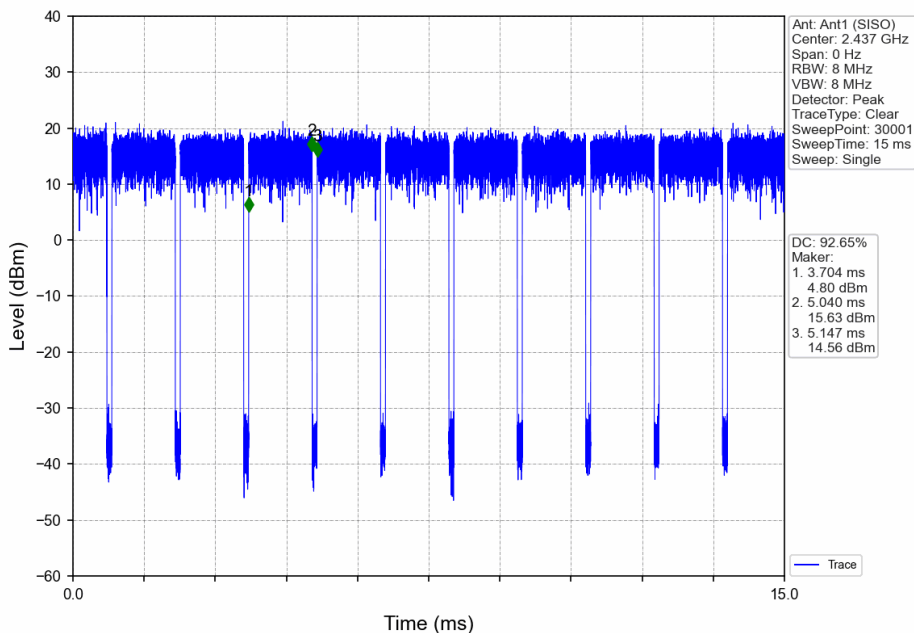
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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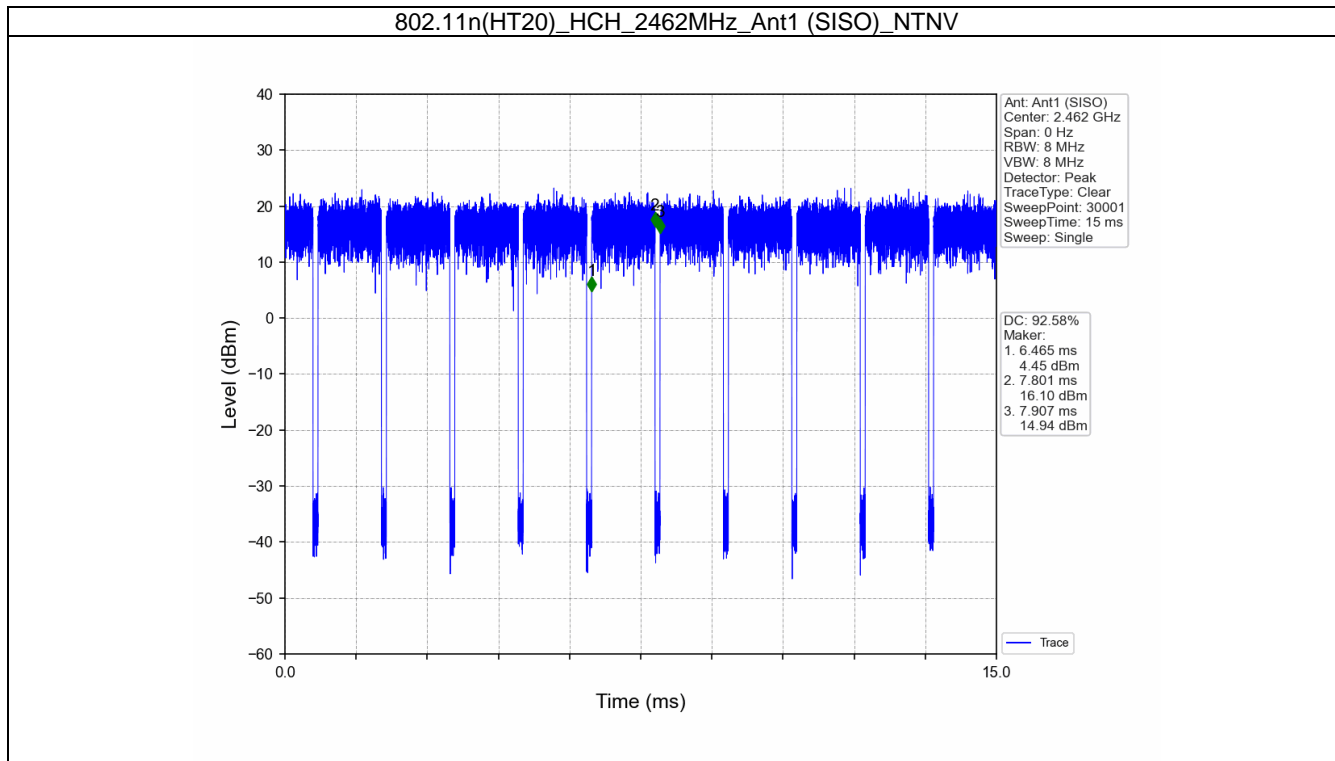
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2. Bandwidth

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	11.119	Pass
		2437	1	12.266	Pass
		2462	1	11.868	Pass
802.11g	SISO	2412	1	16.536	Pass
		2437	1	23.537	Pass
		2462	1	16.576	Pass
802.11n (HT20)	SISO	2412	1	17.910	Pass
		2437	1	28.878	Pass
		2462	1	17.948	Pass

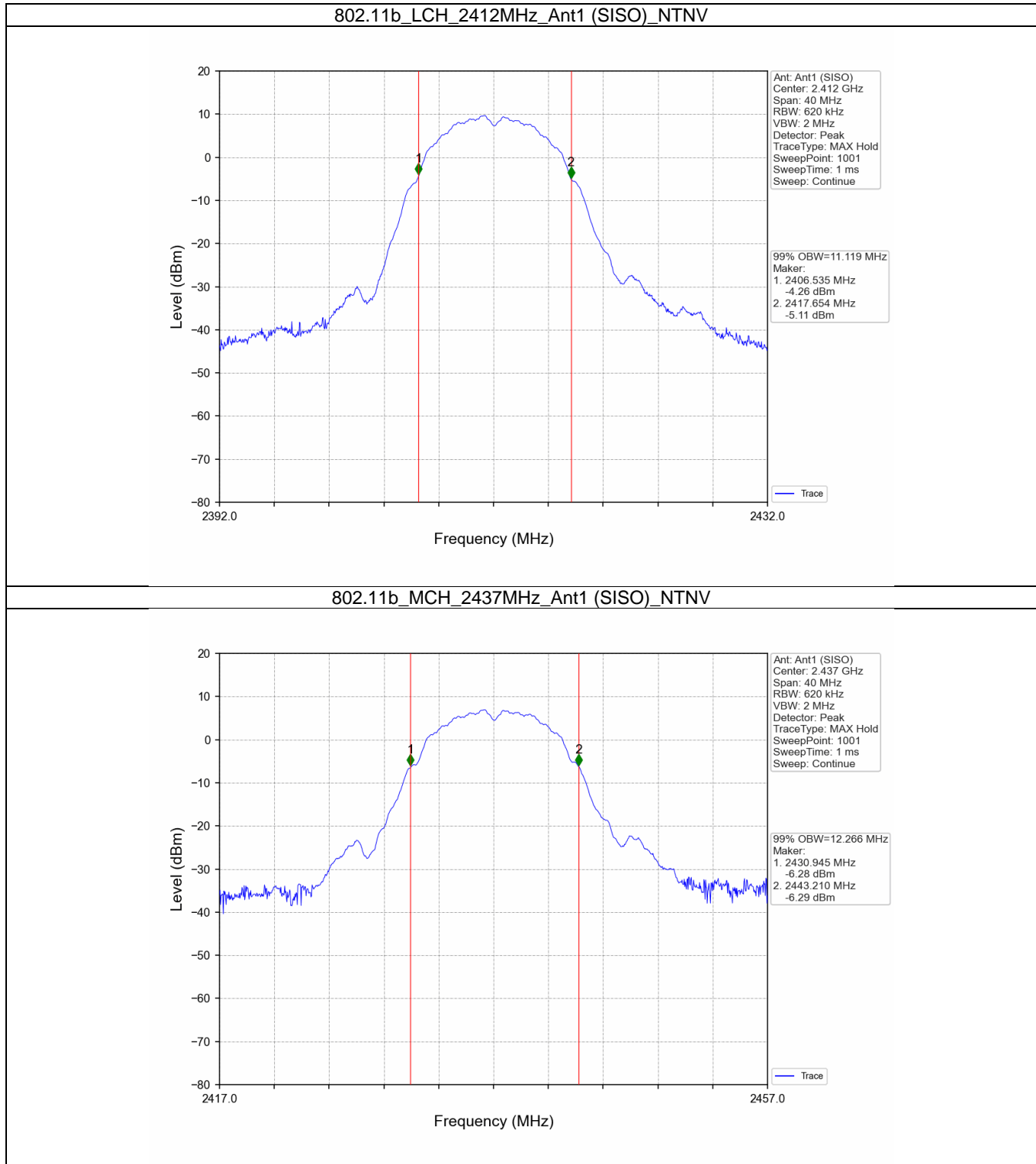


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2.1.2 Test Graph



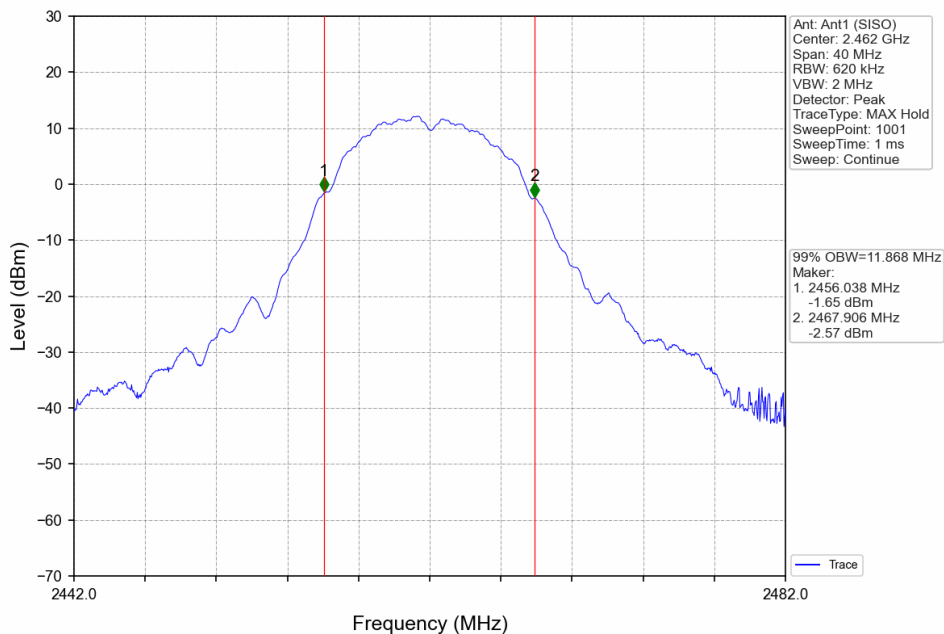
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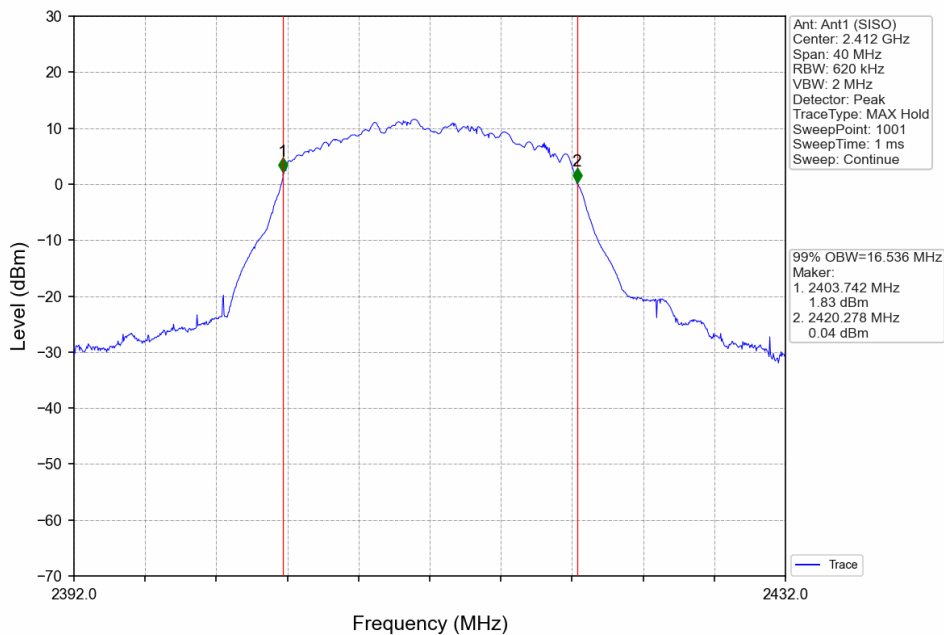
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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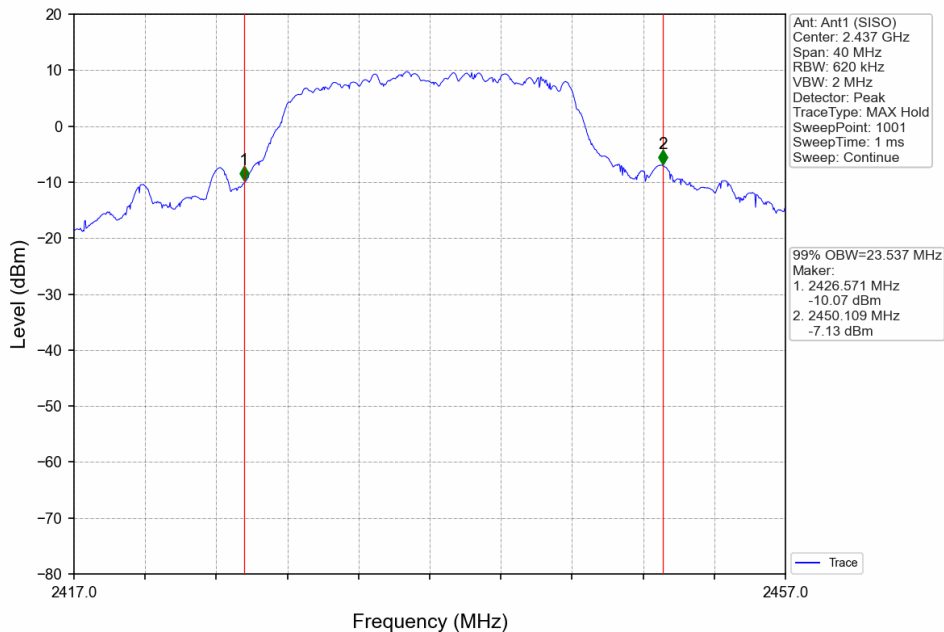
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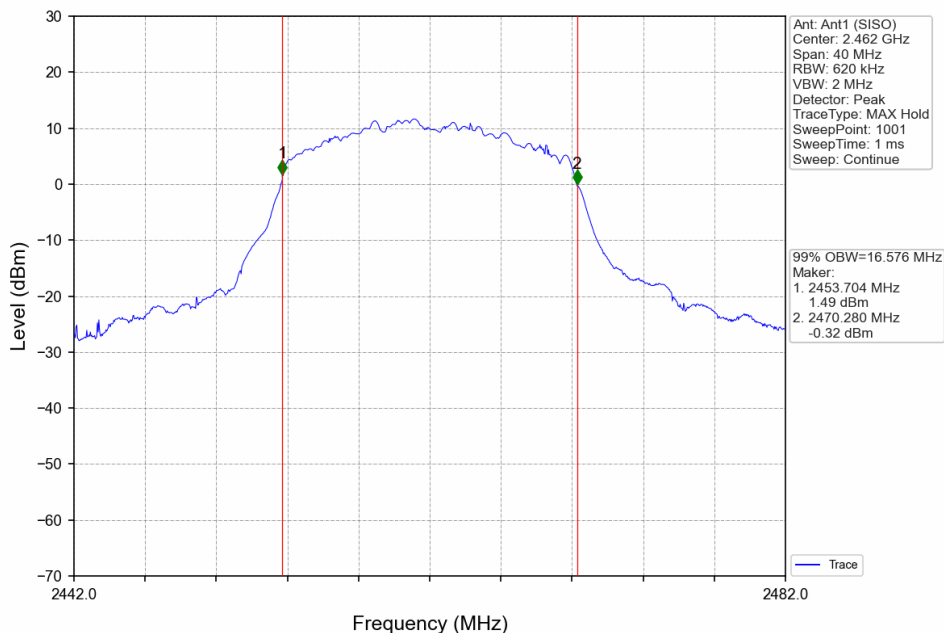
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



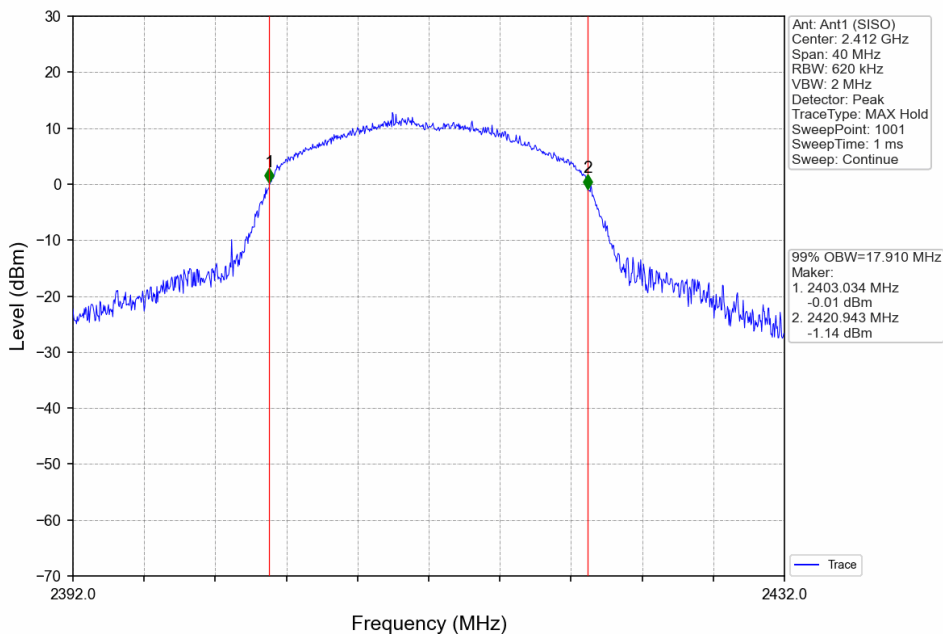
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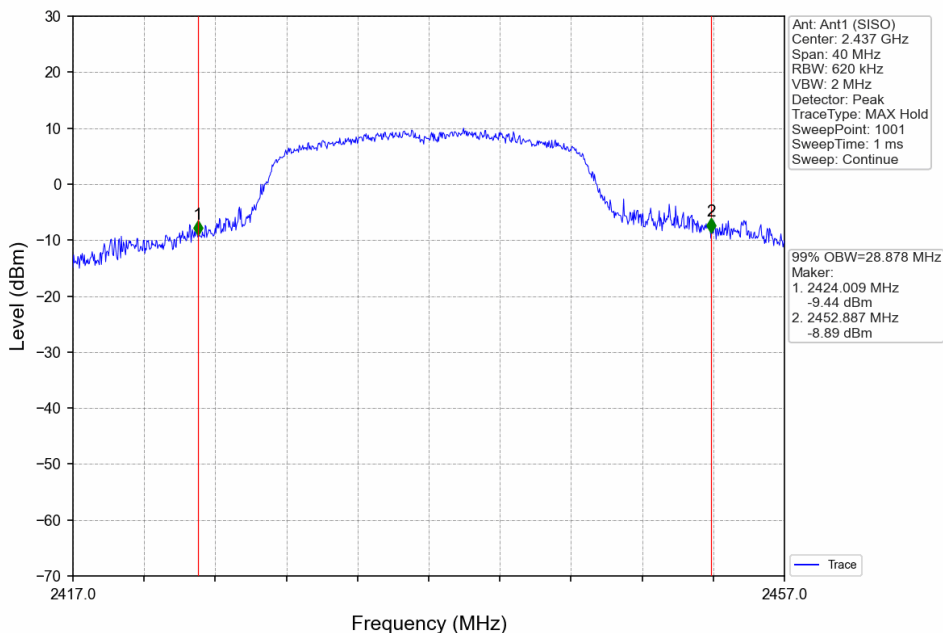
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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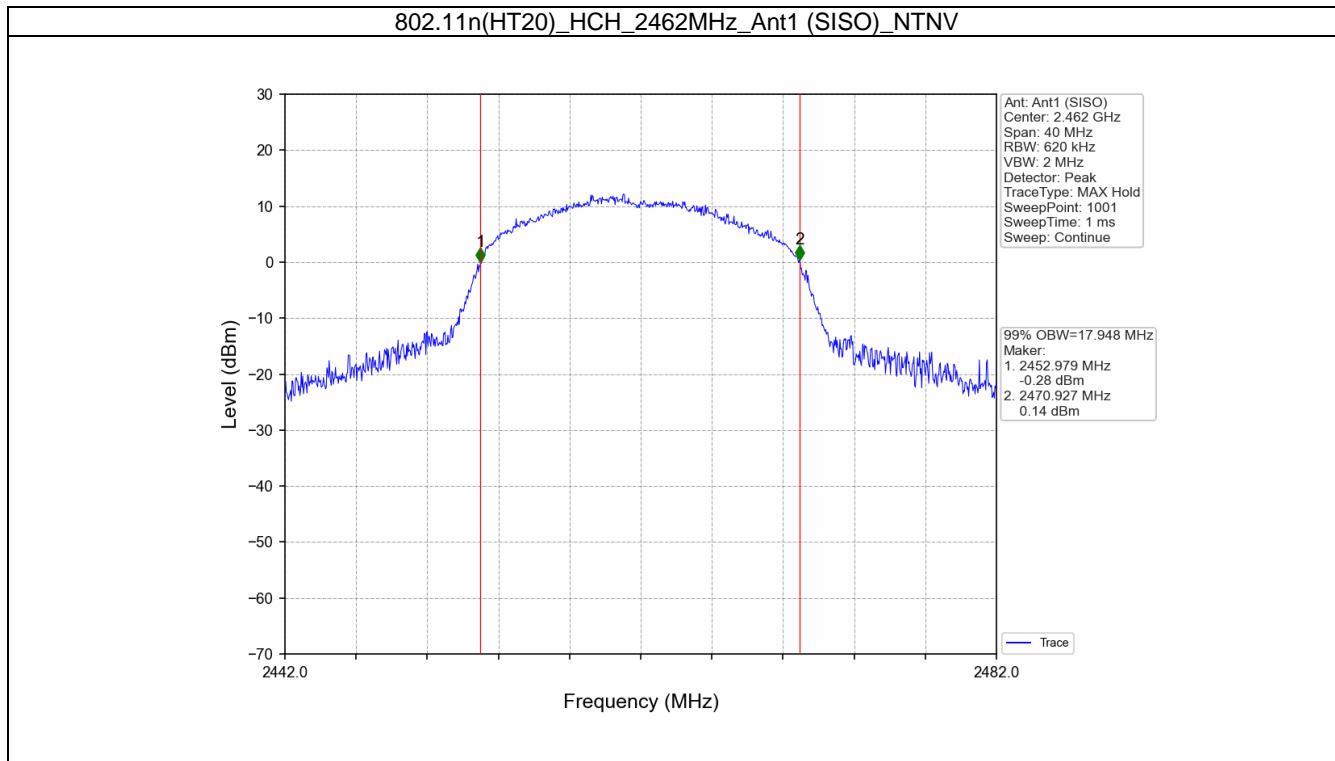
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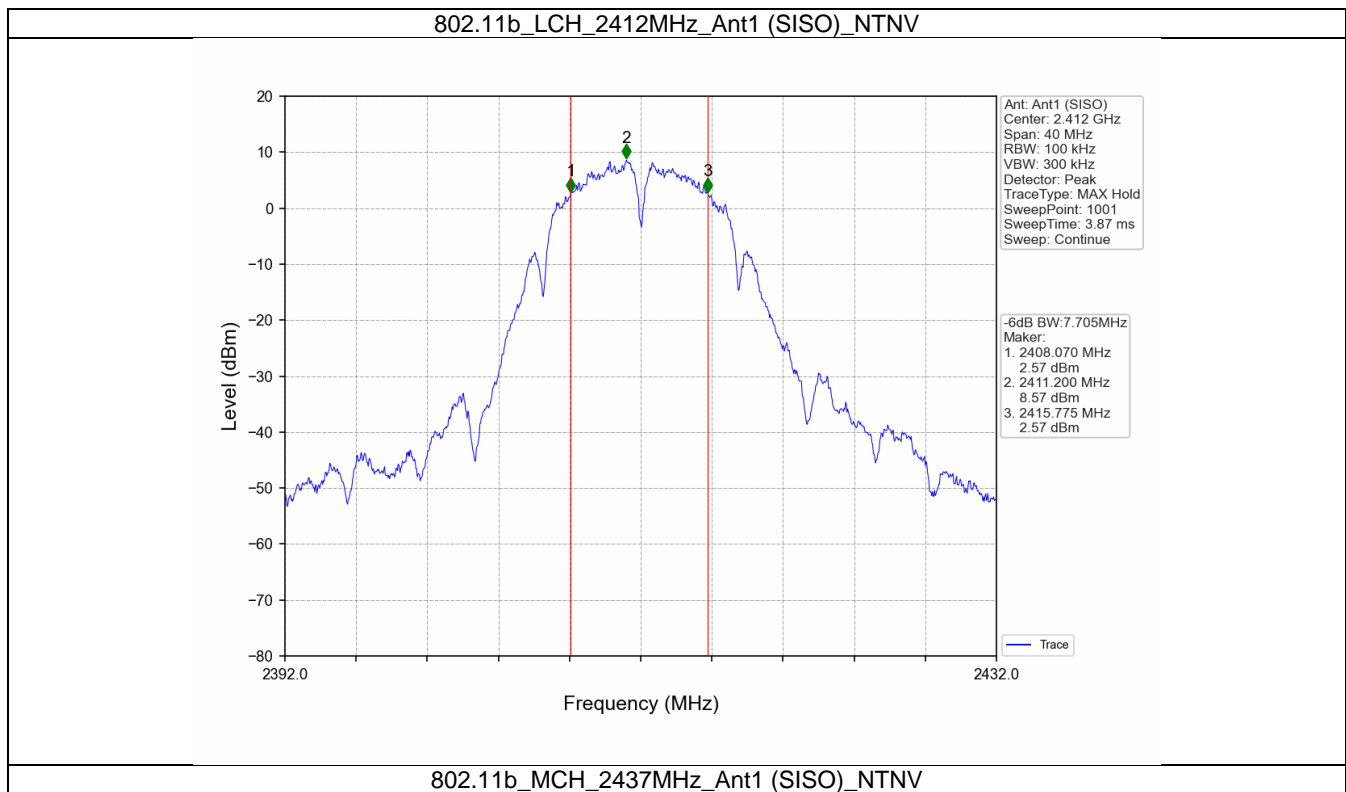
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.705	>=0.5	Pass
		2437	1	9.057	>=0.5	Pass
		2462	1	8.117	>=0.5	Pass
802.11g	SISO	2412	1	13.843	>=0.5	Pass
		2437	1	15.399	>=0.5	Pass
		2462	1	13.844	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	13.836	>=0.5	Pass
		2437	1	16.151	>=0.5	Pass
		2462	1	13.844	>=0.5	Pass

2.2.2 Test Graph

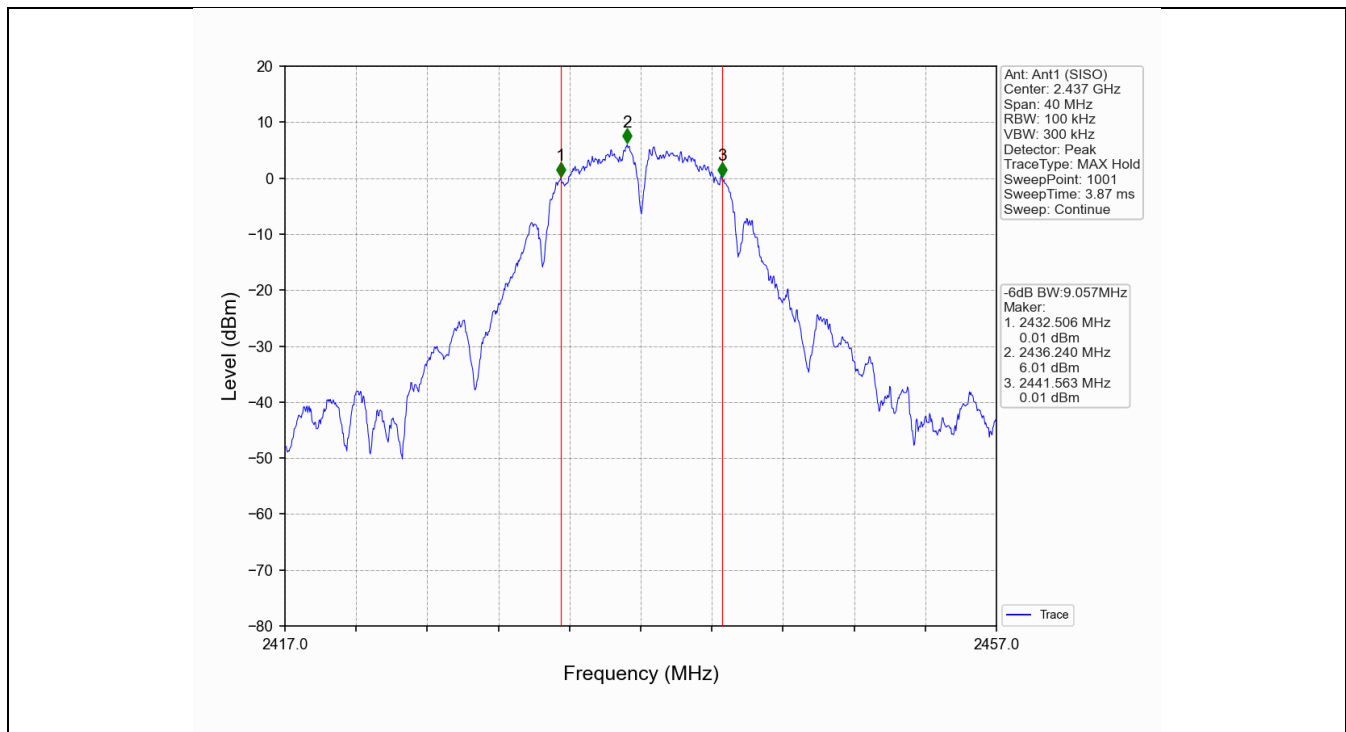


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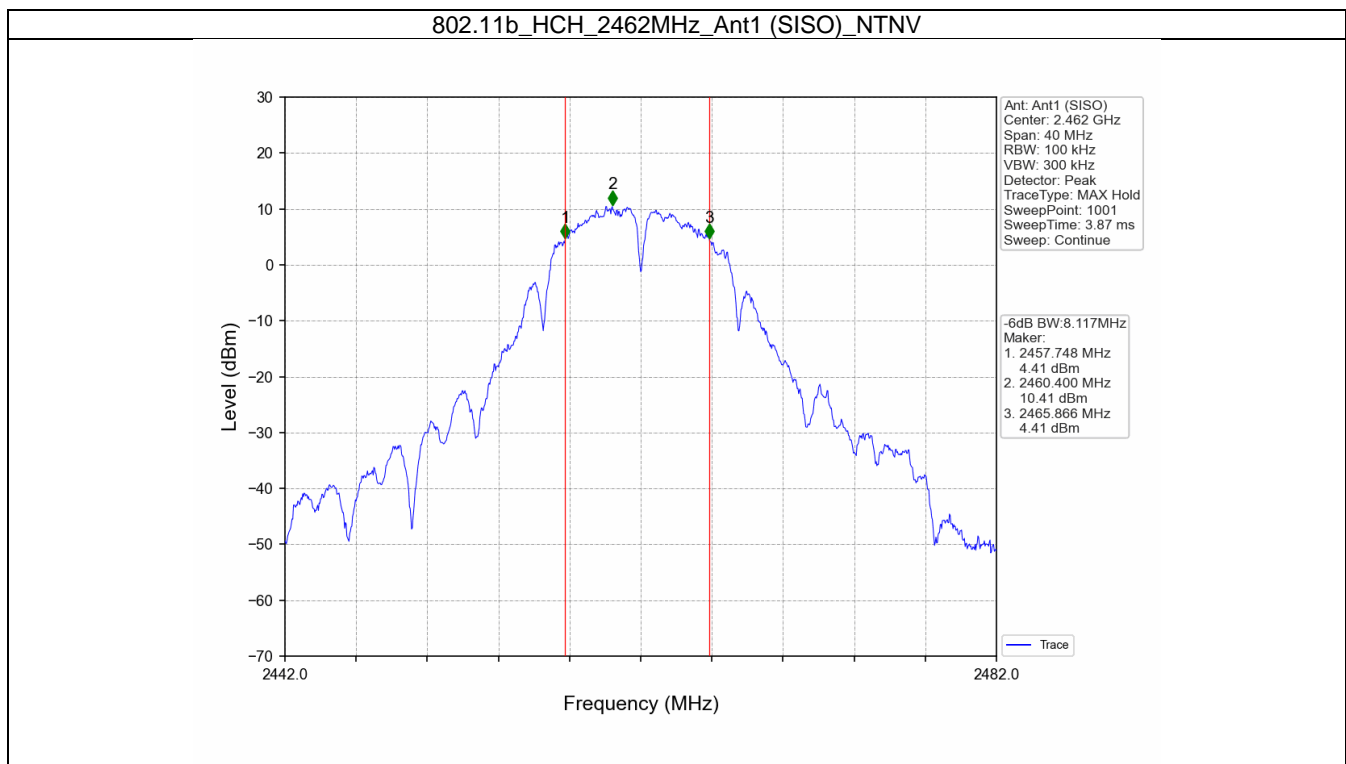
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

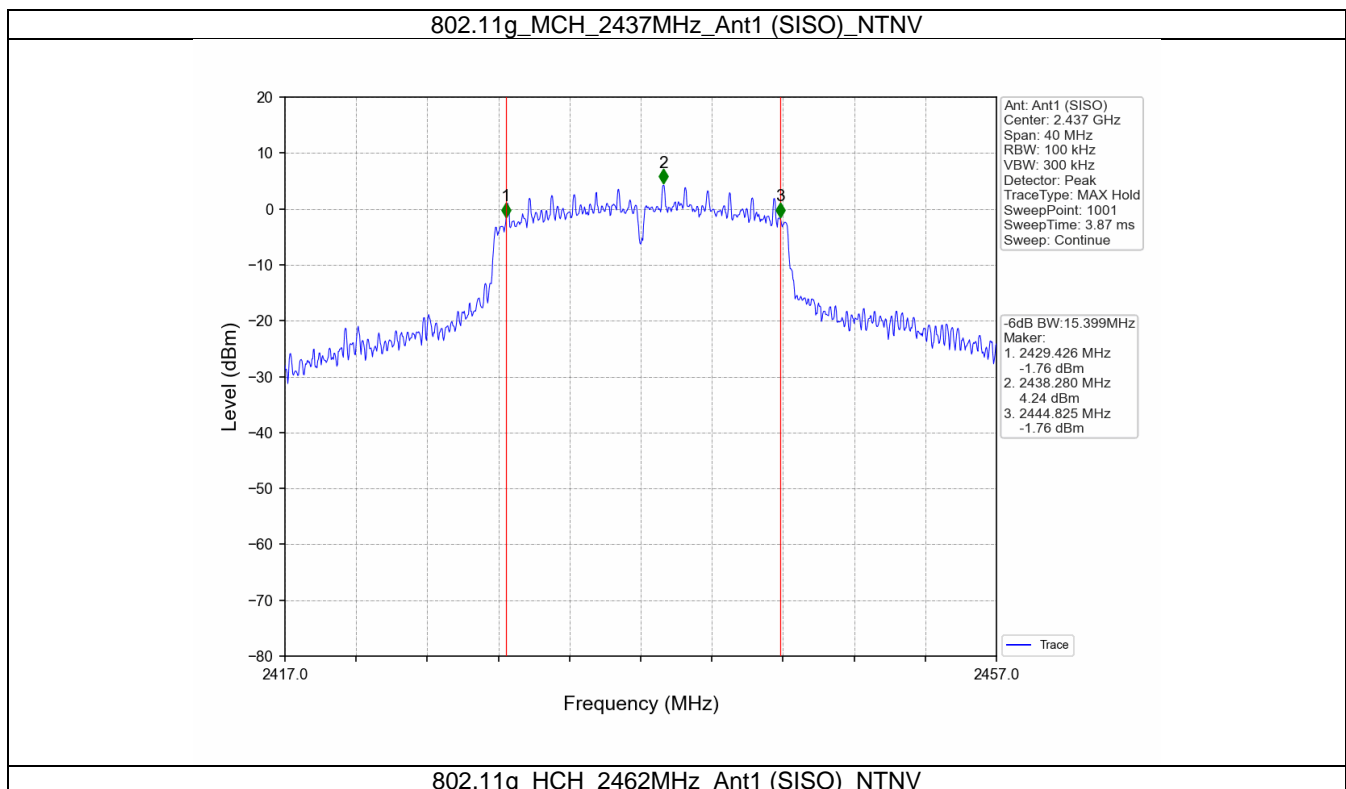
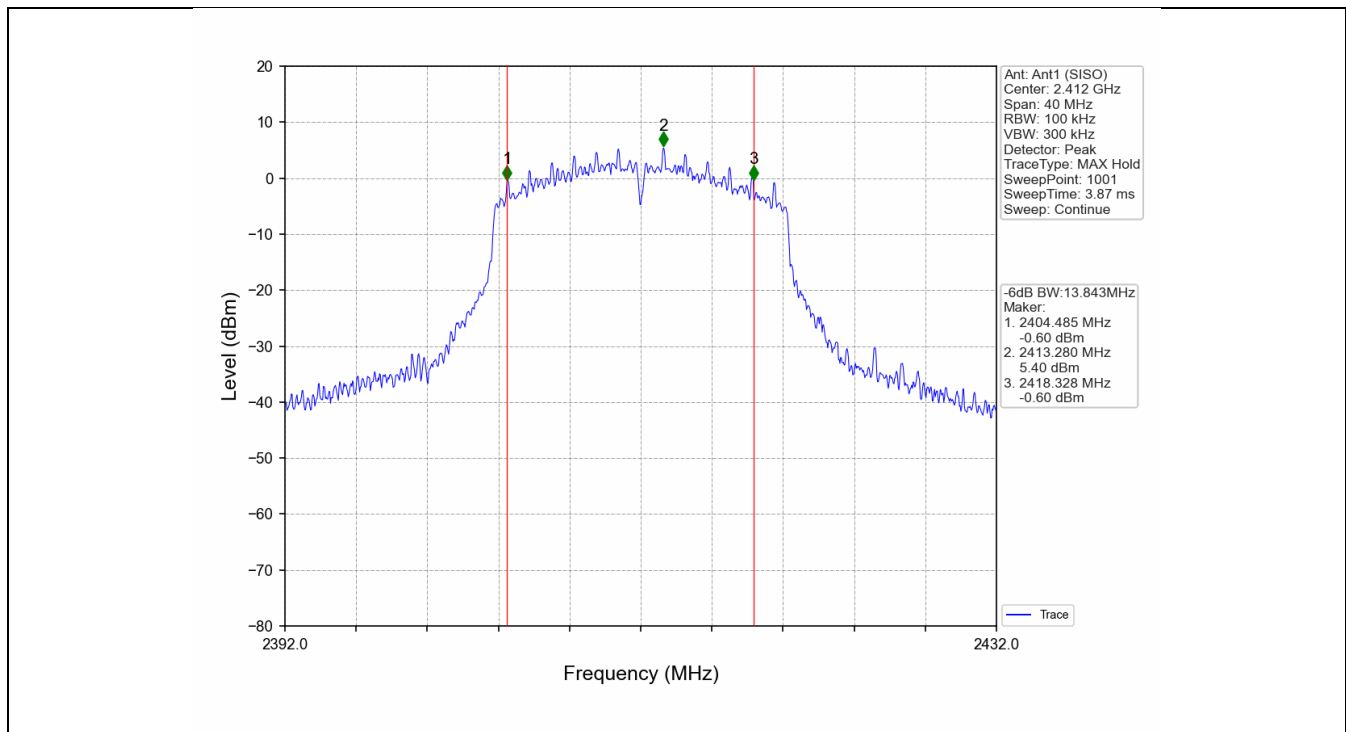


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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

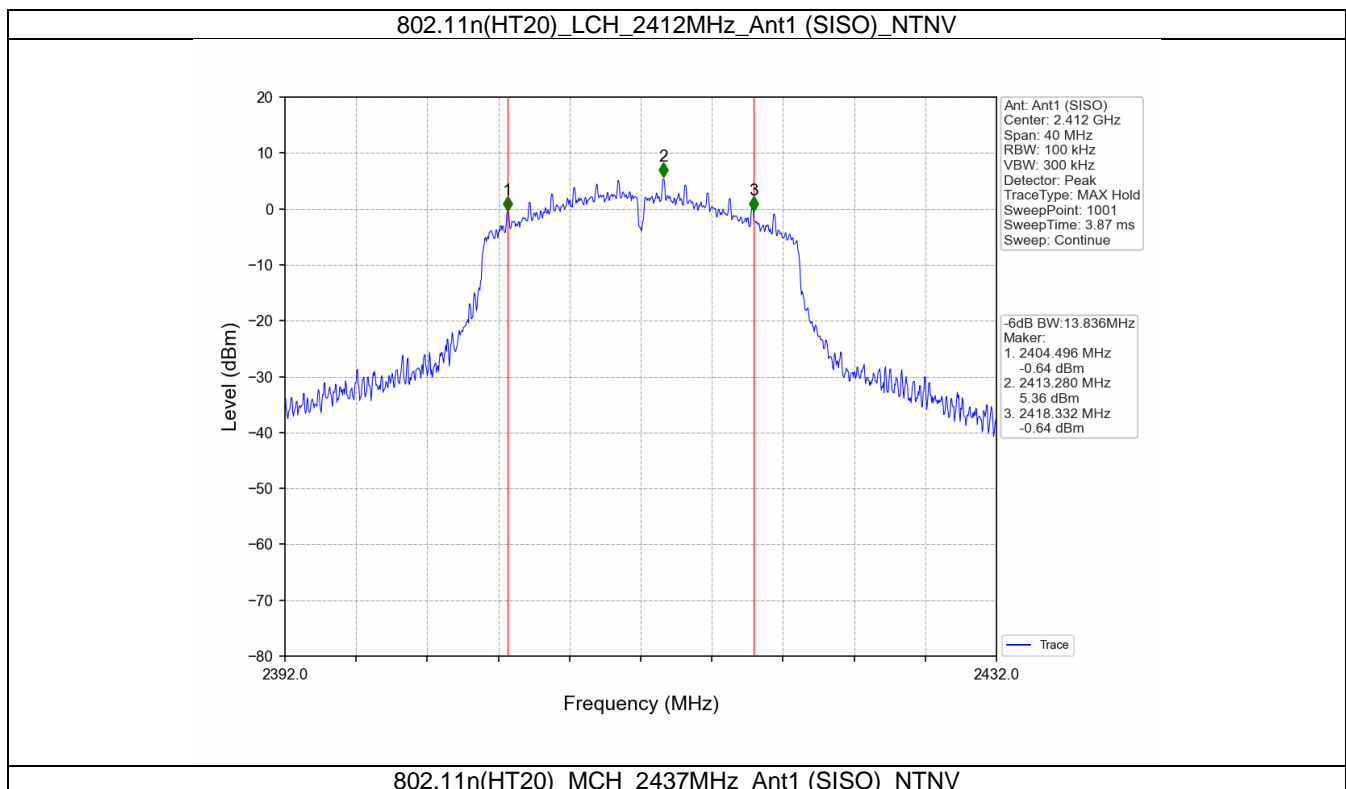
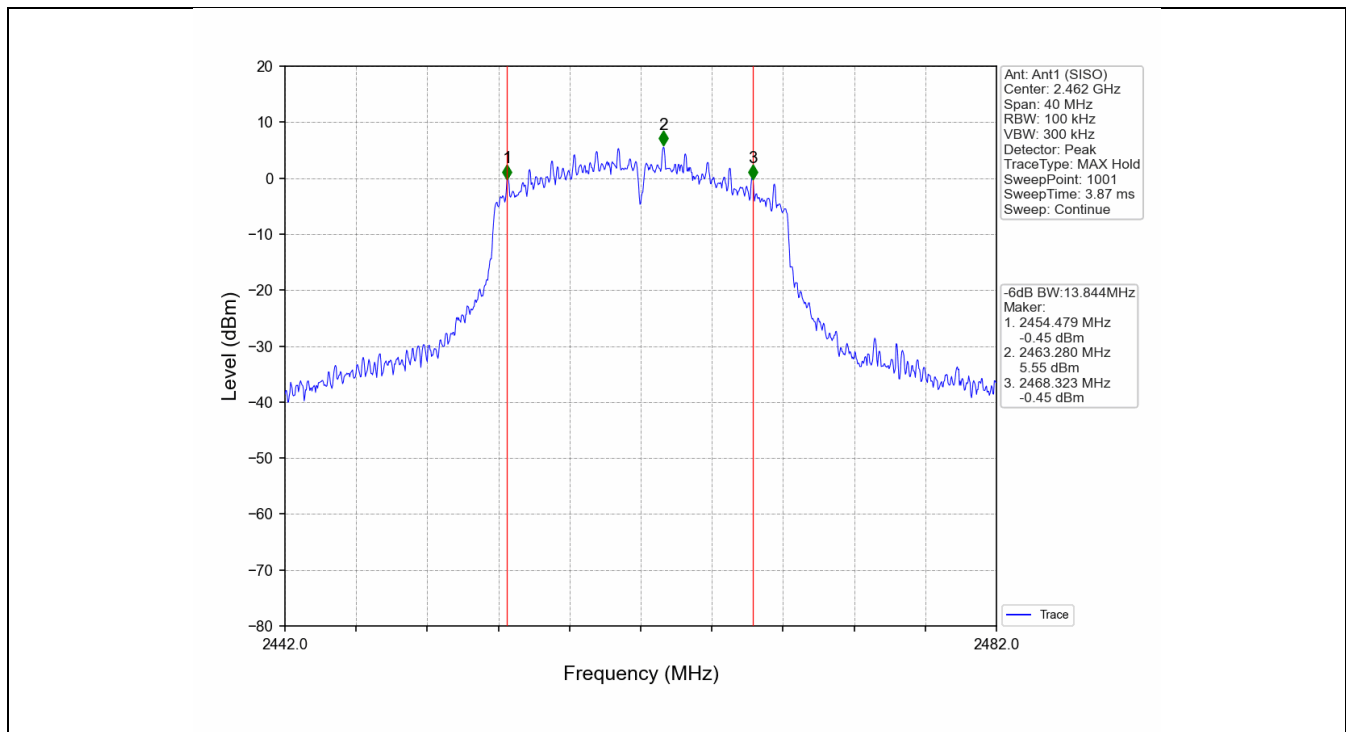
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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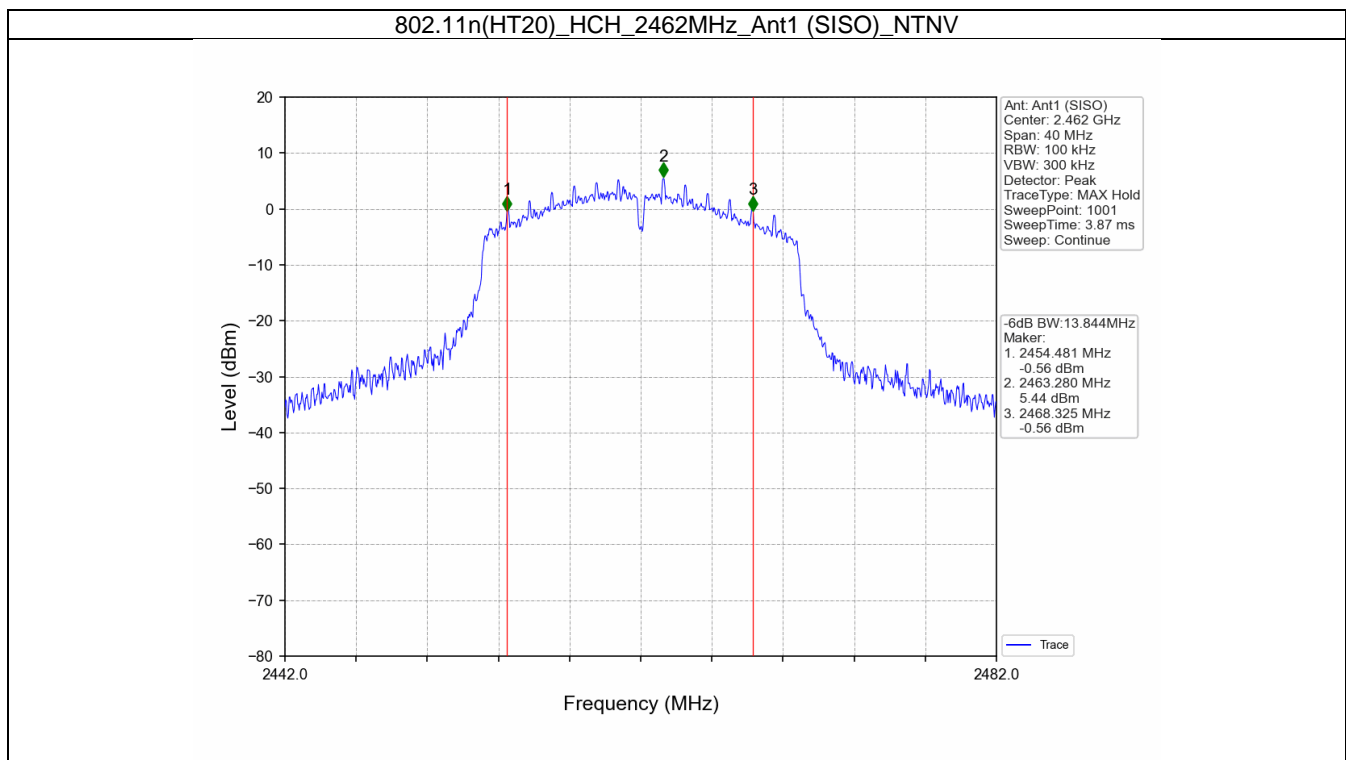
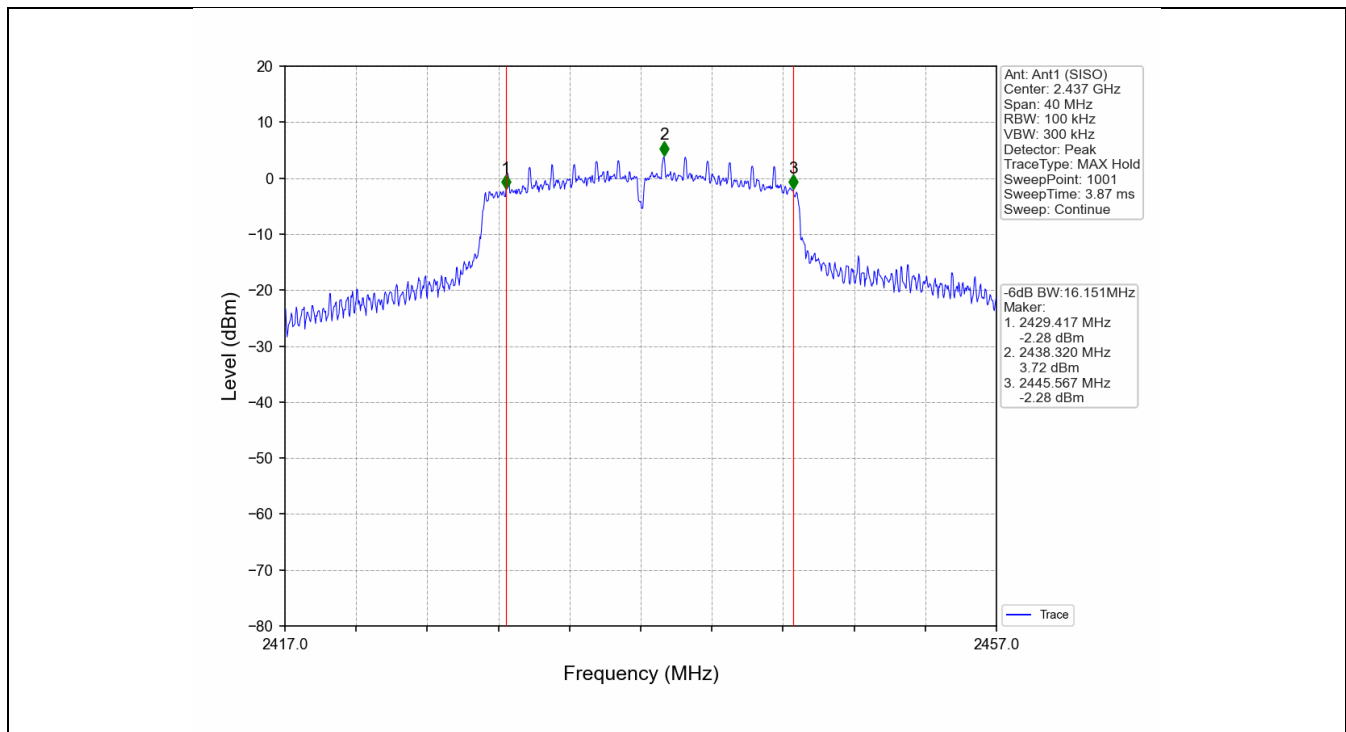
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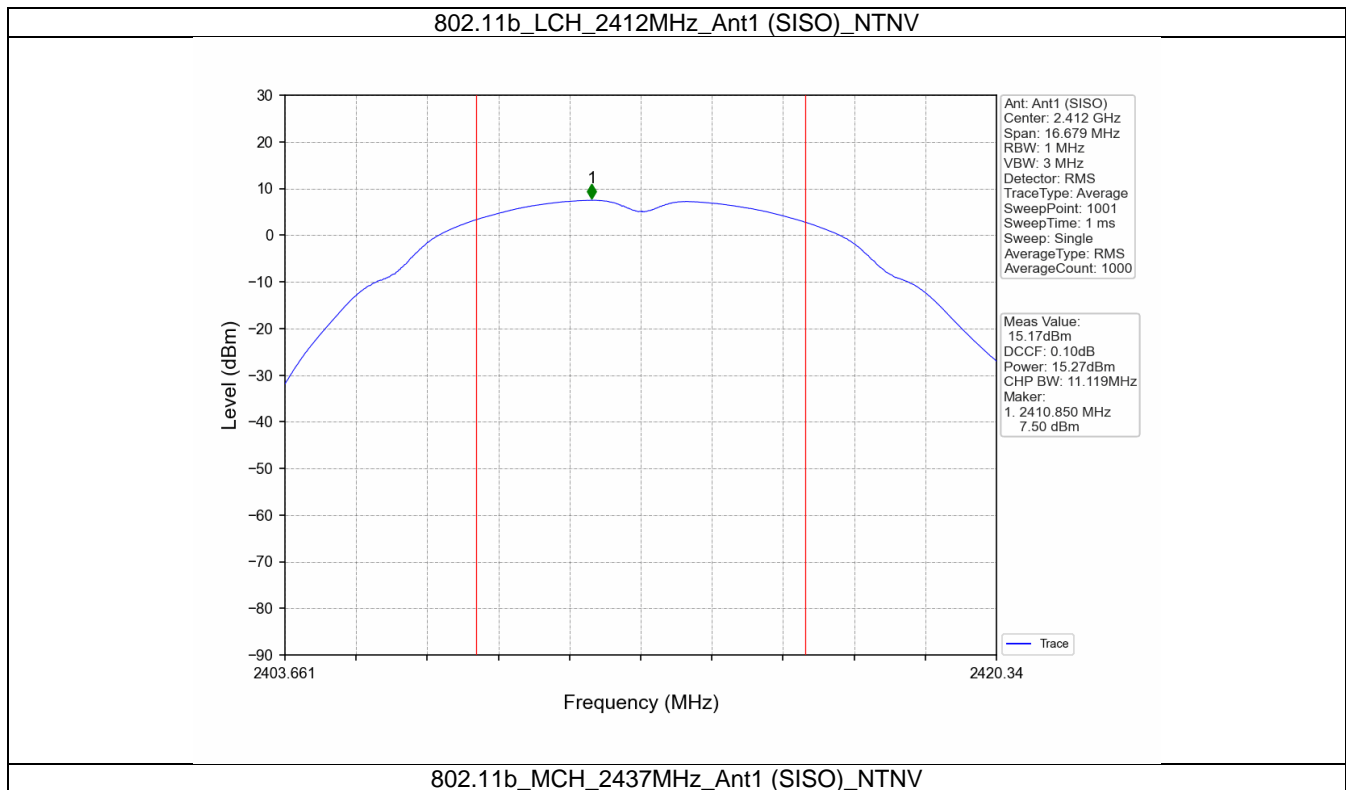
3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	15.27	<=30	Pass
		2437	14.10	<=30	Pass
		2462	15.32	<=30	Pass
802.11g	SISO	2412	15.27	<=30	Pass
		2437	14.59	<=30	Pass
		2462	15.39	<=30	Pass
802.11n (HT20)	SISO	2412	14.95	<=30	Pass
		2437	14.50	<=30	Pass
		2462	15.11	<=30	Pass

3.1.2 Test Graph

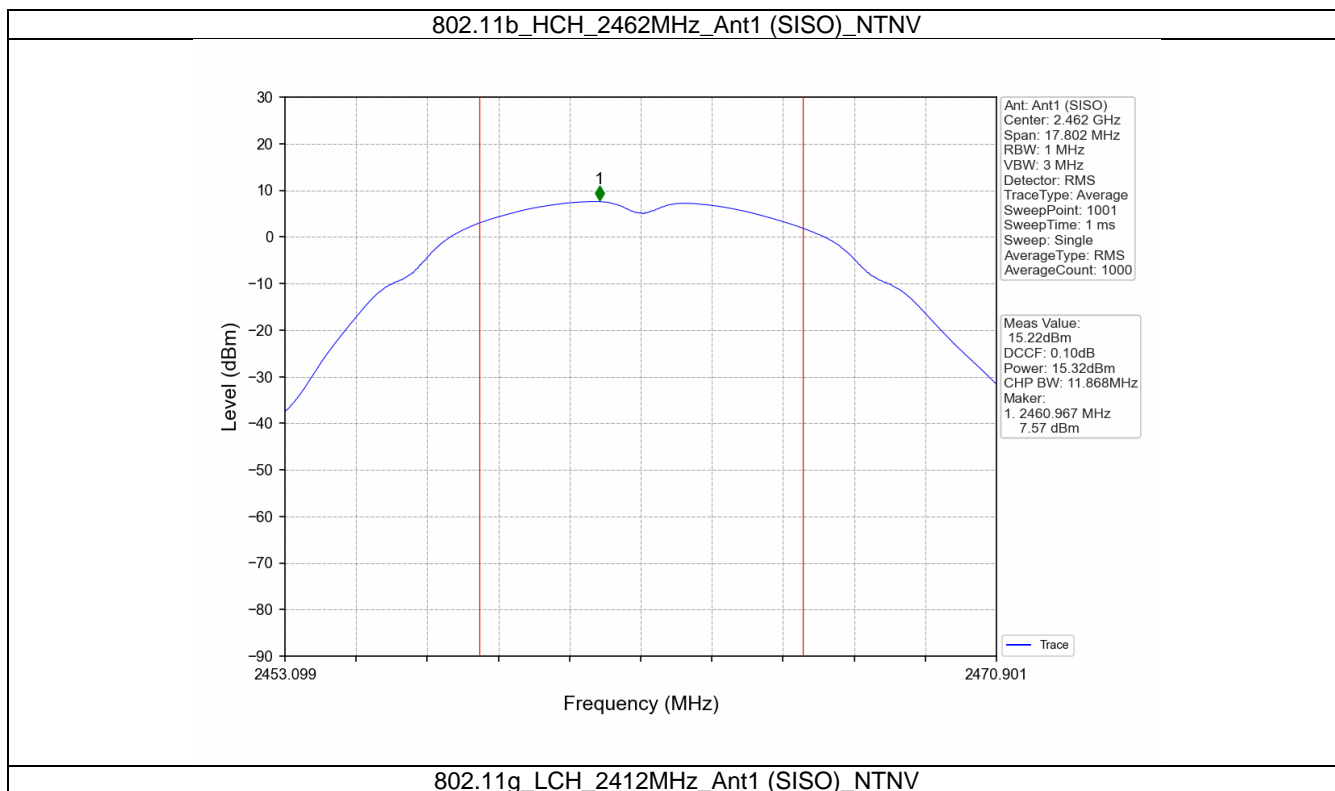
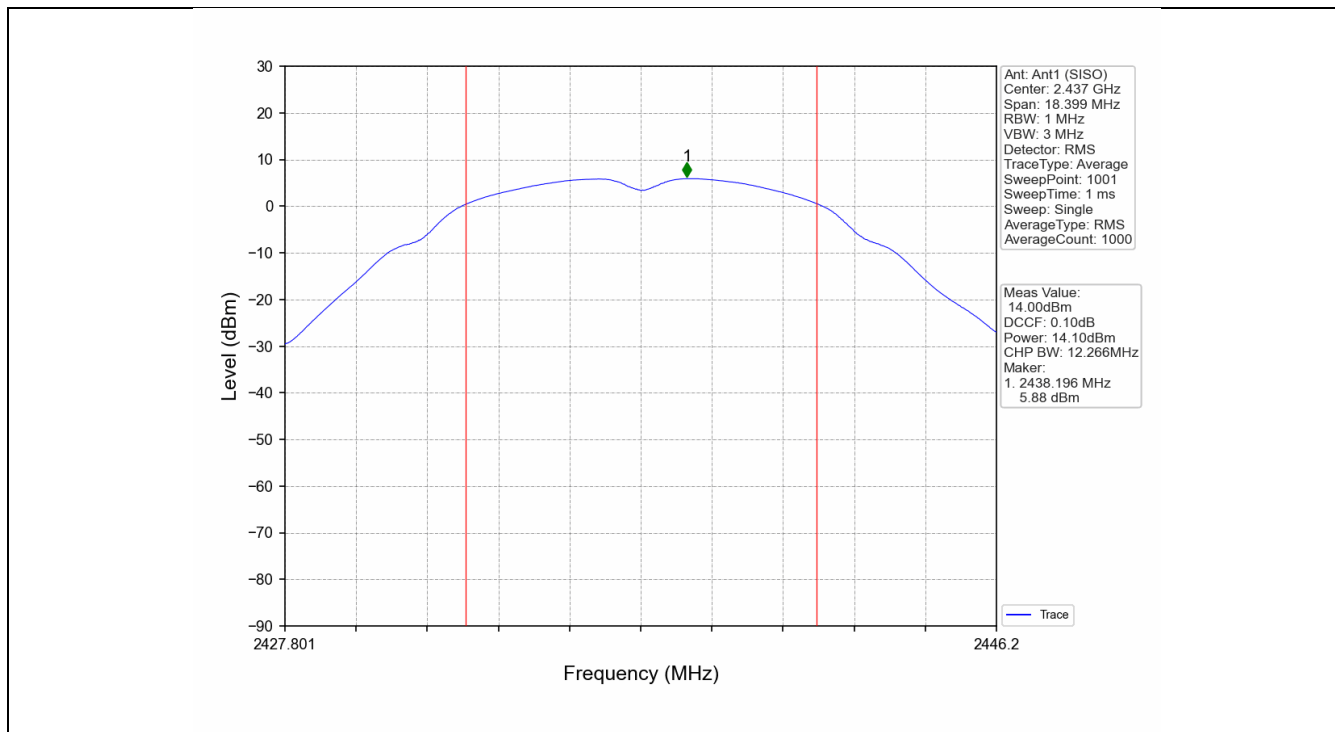


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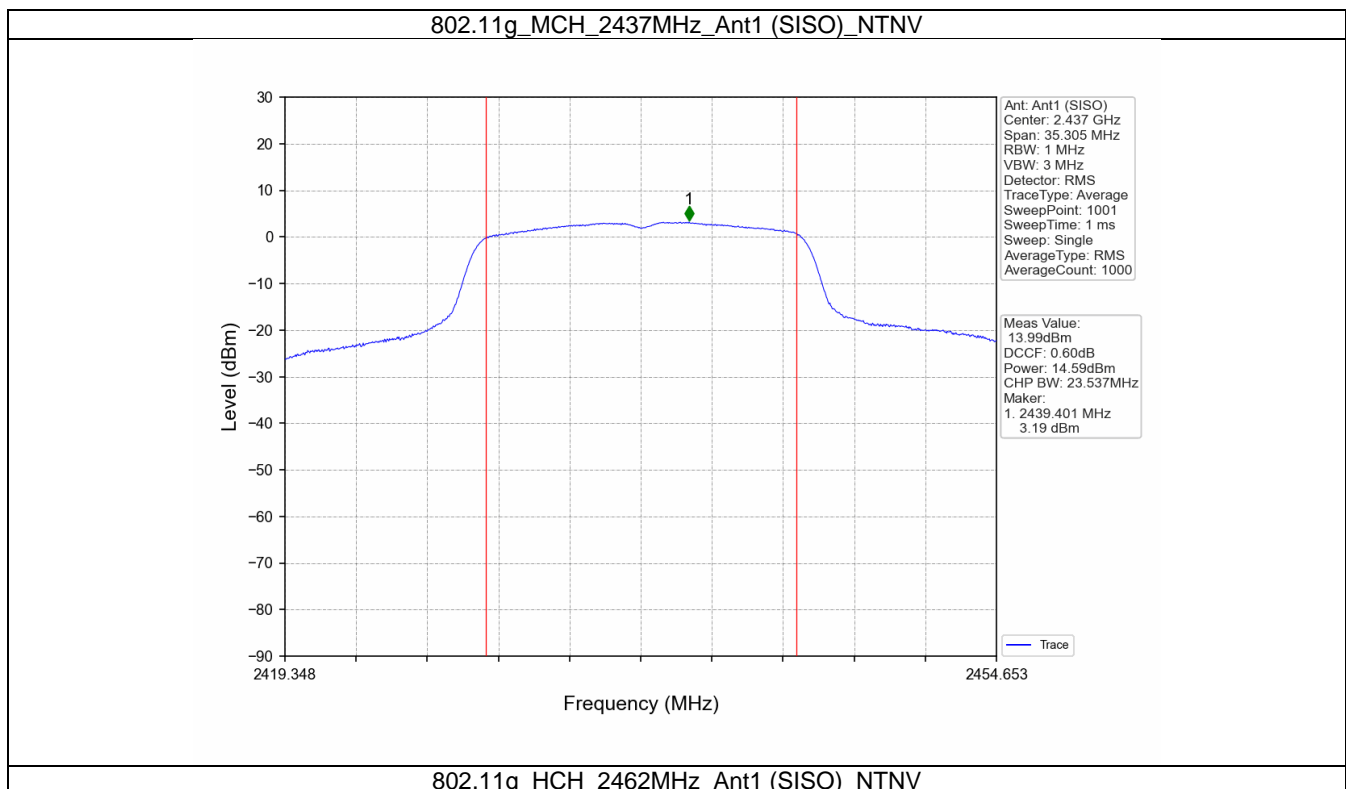
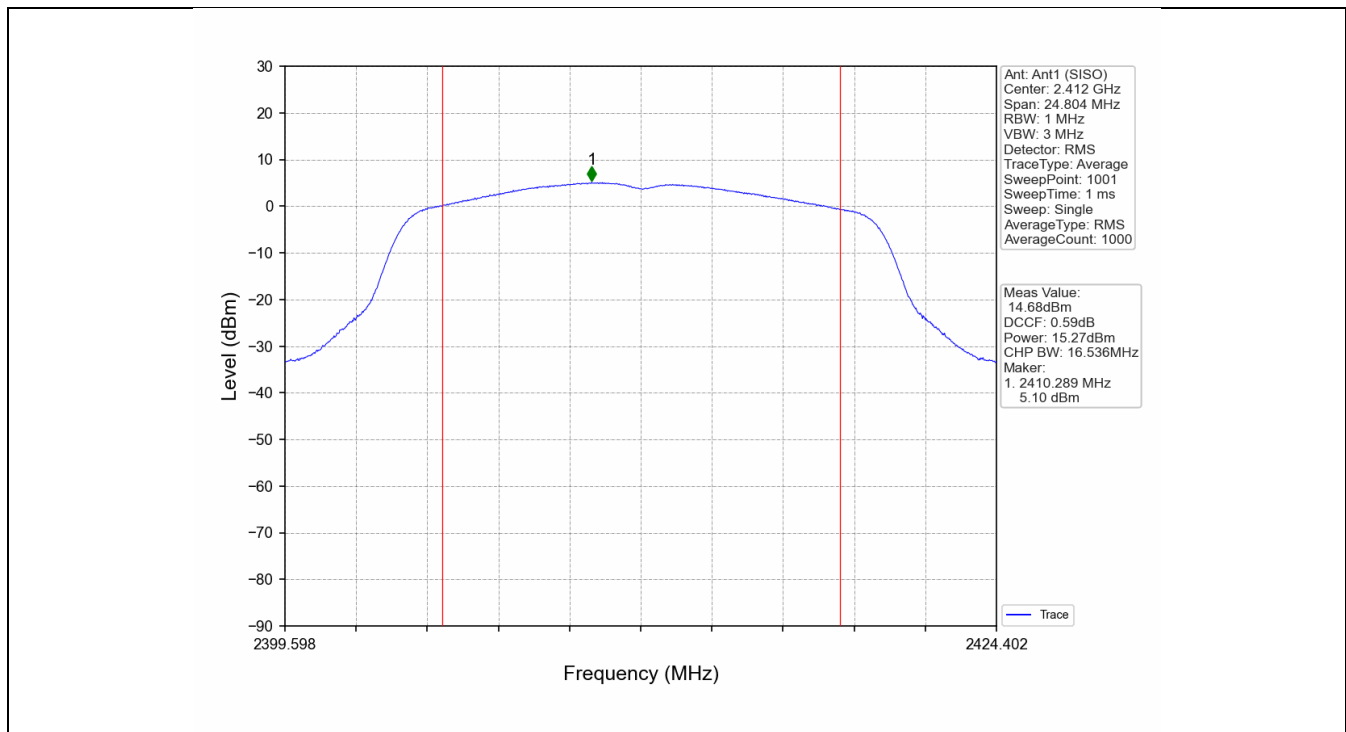


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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

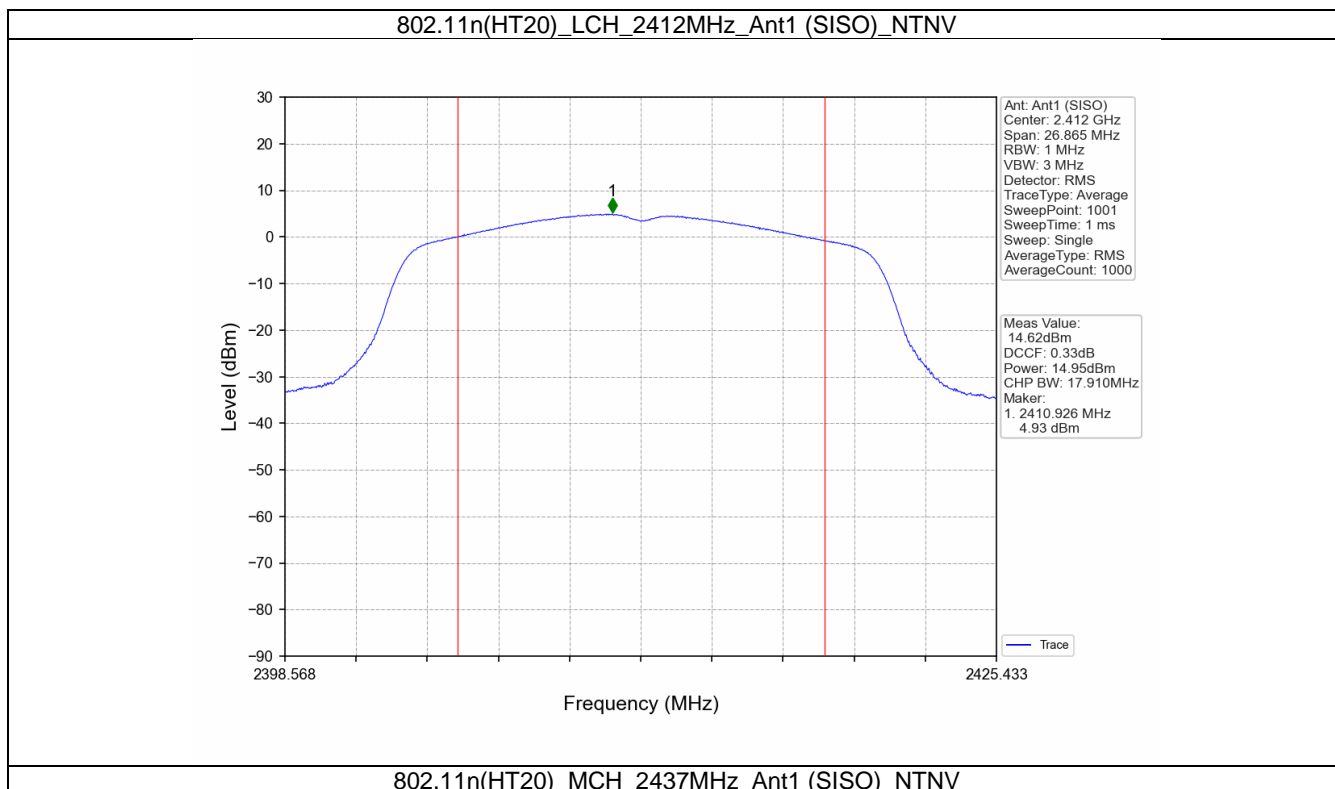
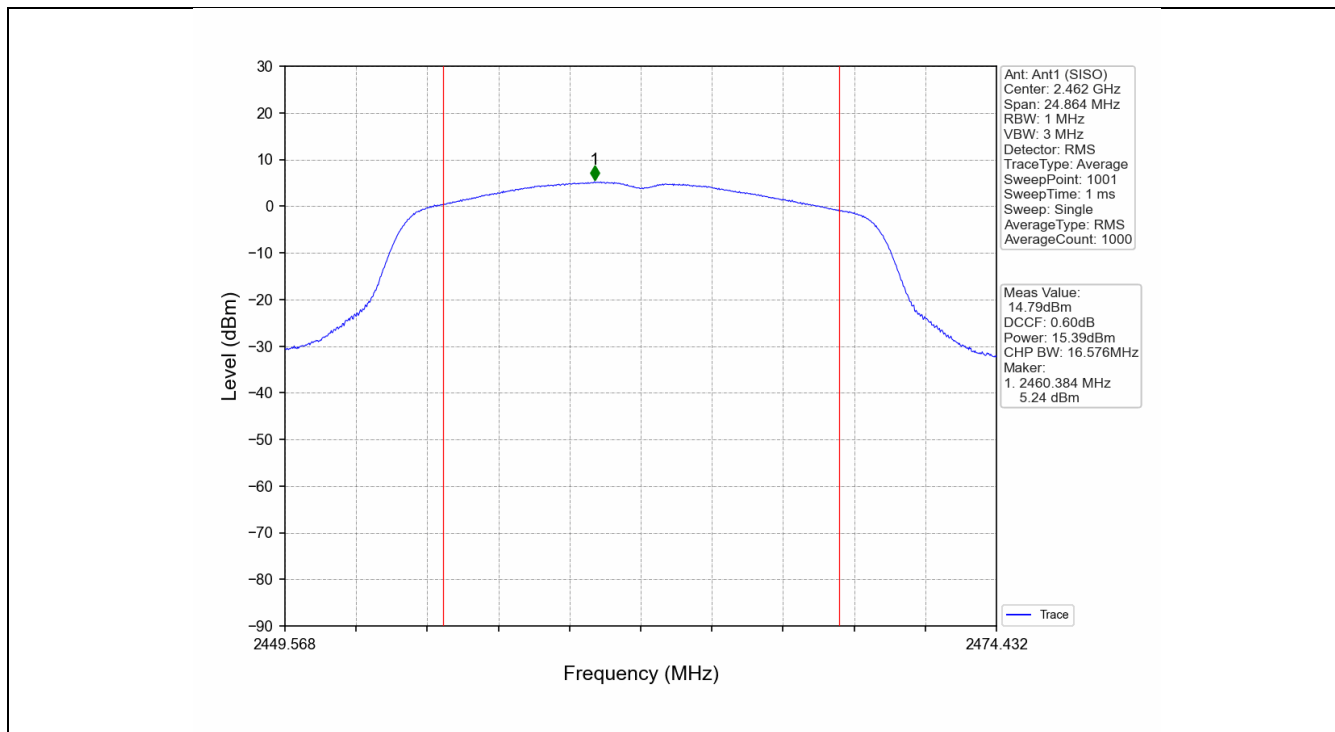
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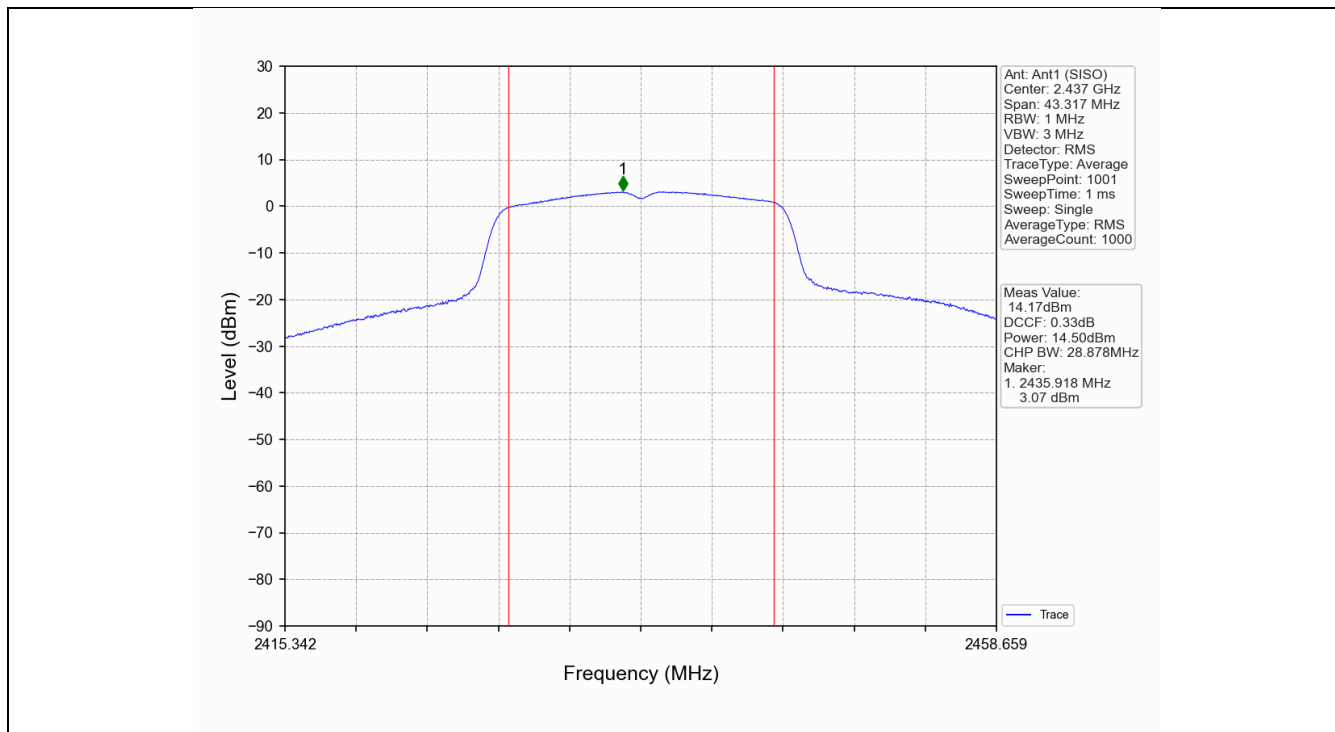
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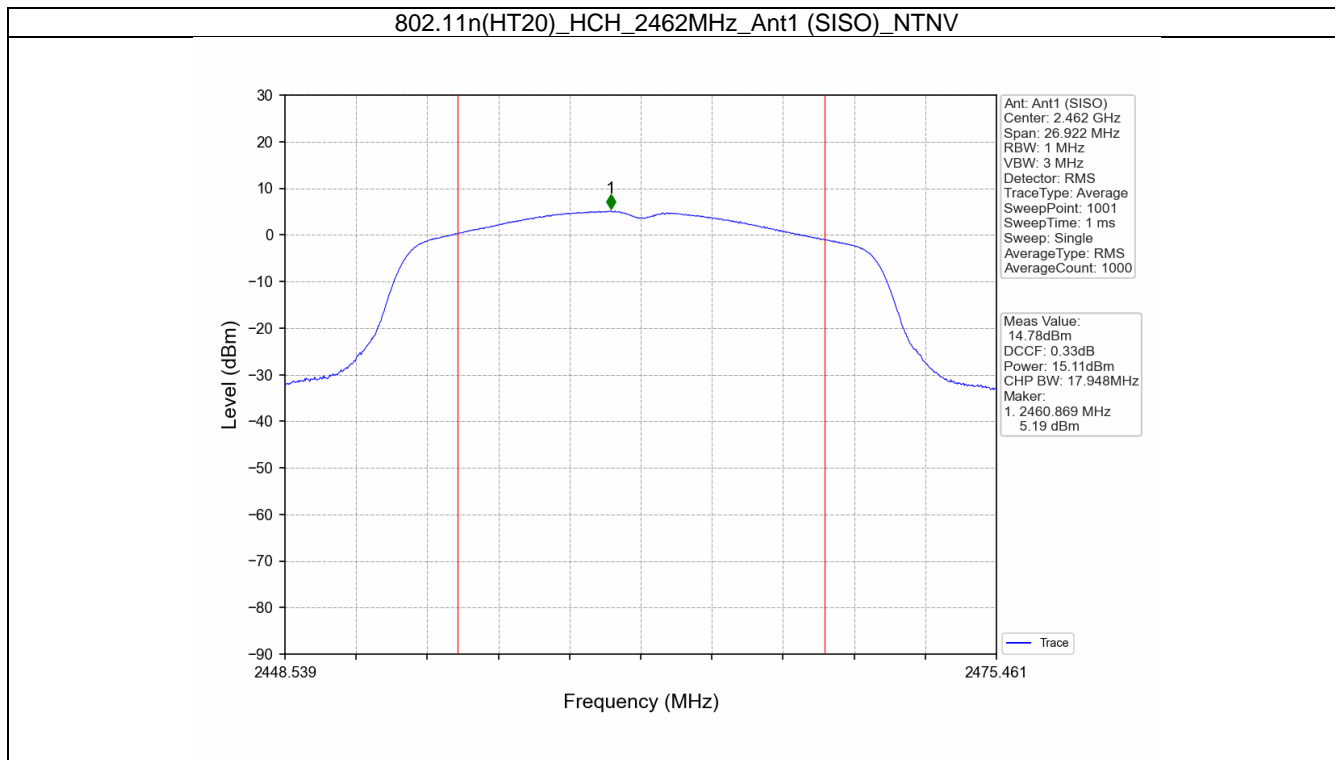


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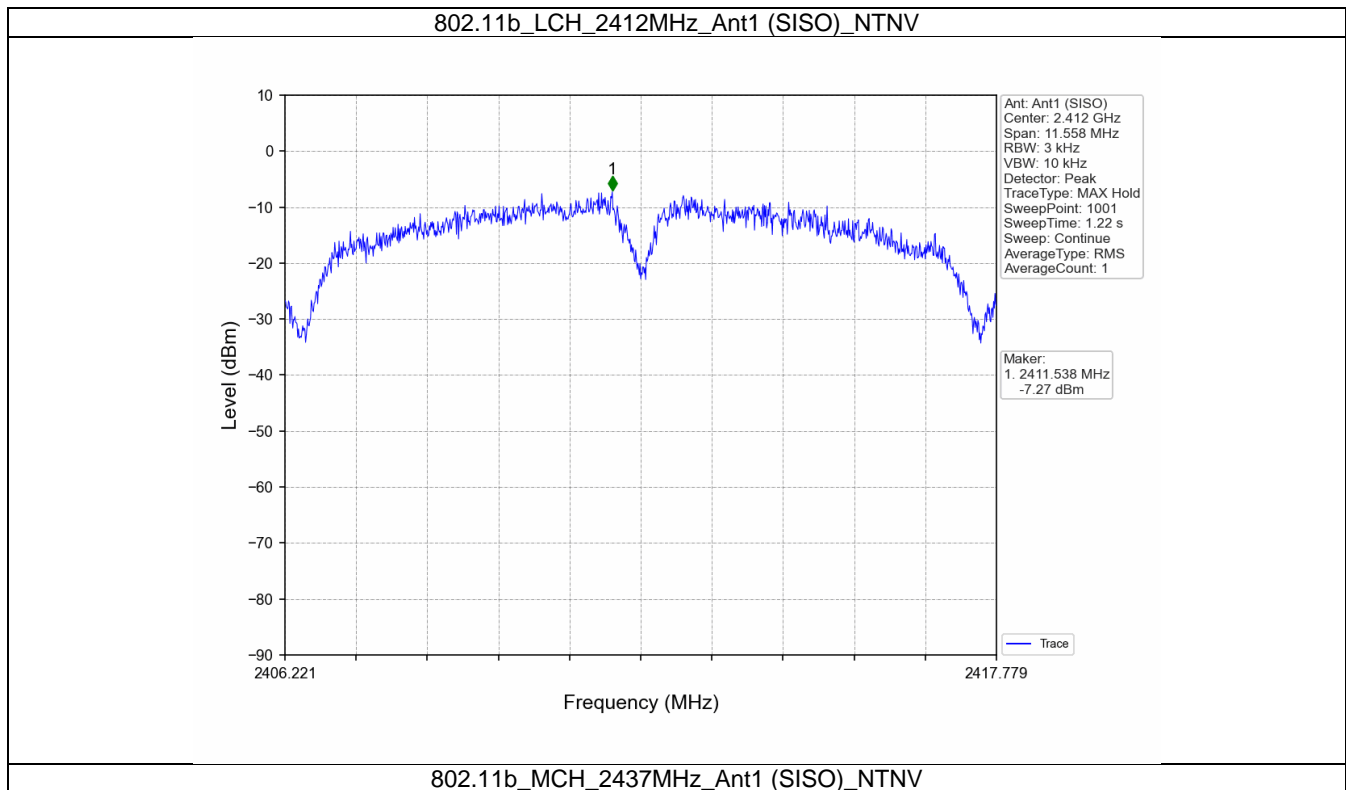
4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-7.27	<=8	Pass
		2437	-8.71	<=8	Pass
		2462	-5.94	<=8	Pass
802.11g	SISO	2412	-7.98	<=8	Pass
		2437	-9.83	<=8	Pass
		2462	-8.85	<=8	Pass
802.11n (HT20)	SISO	2412	-9.32	<=8	Pass
		2437	-10.09	<=8	Pass
		2462	-9.28	<=8	Pass

4.1.2 Test Graph

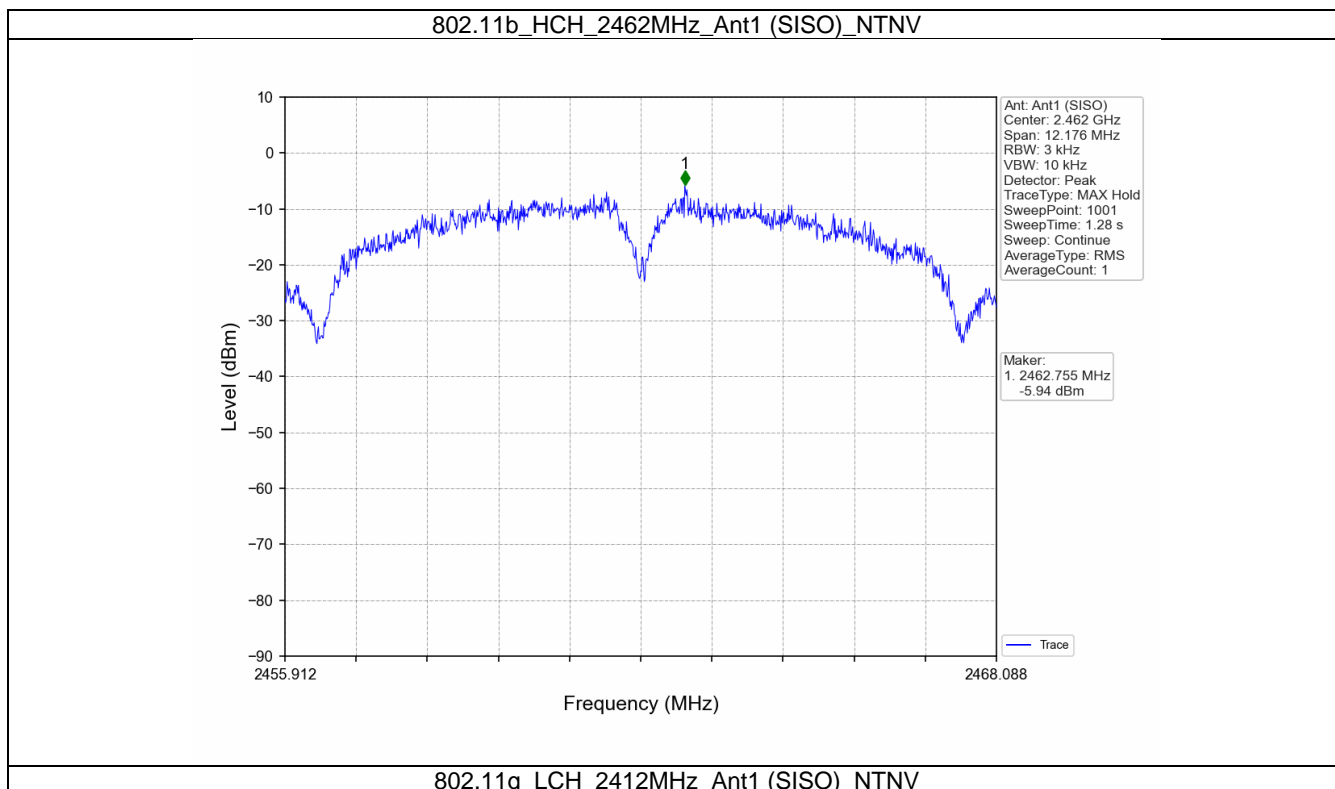
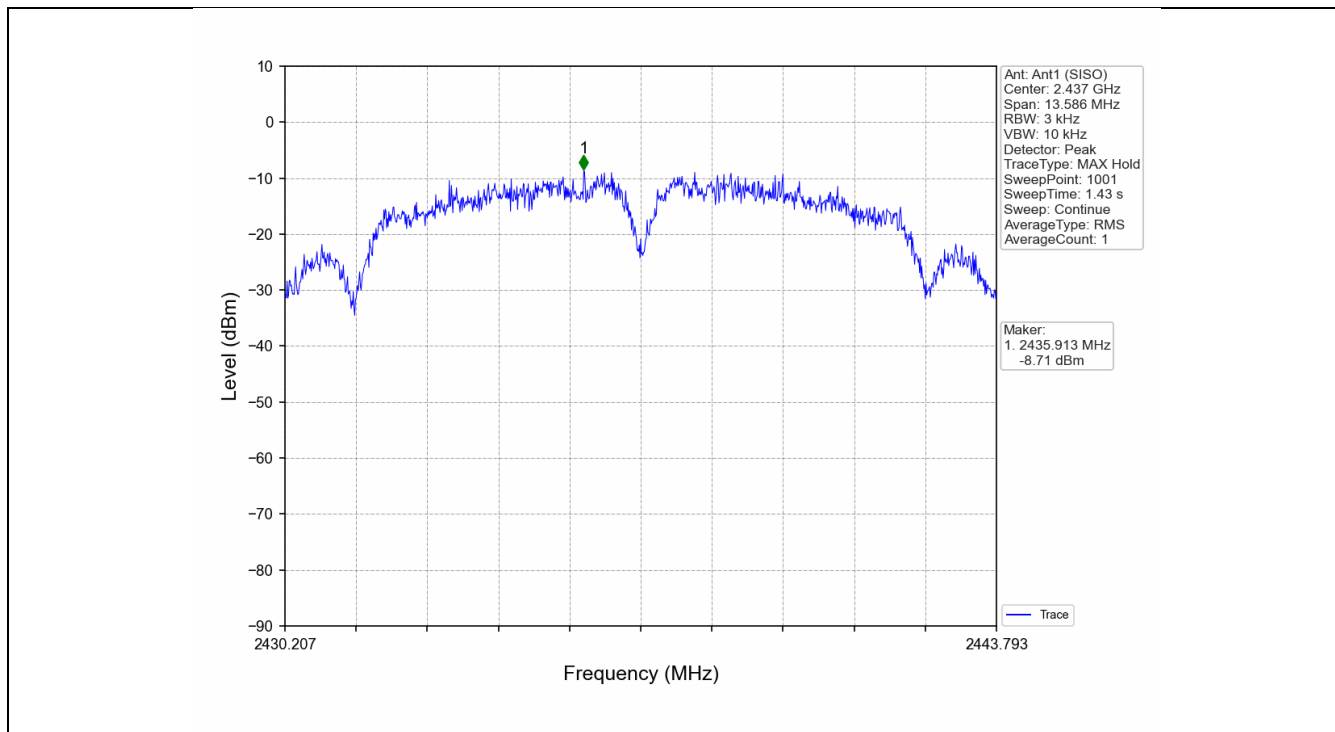


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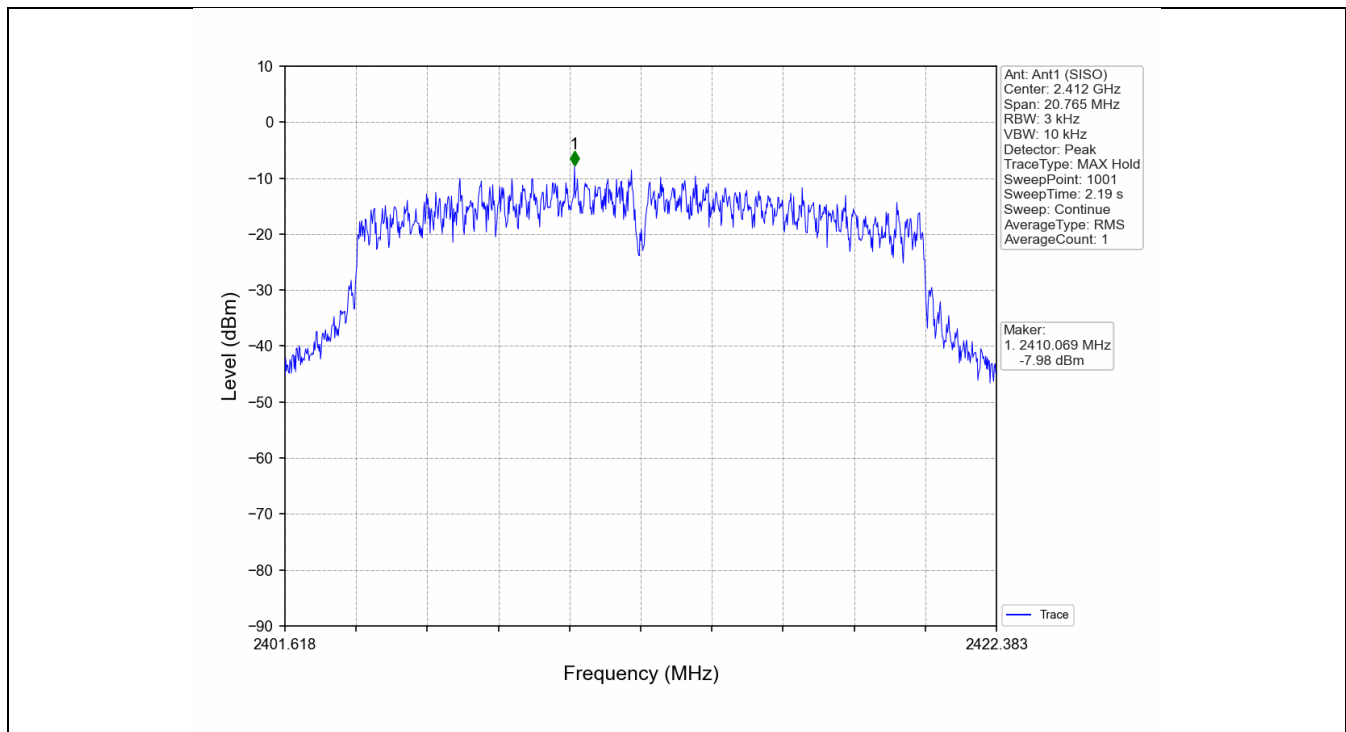
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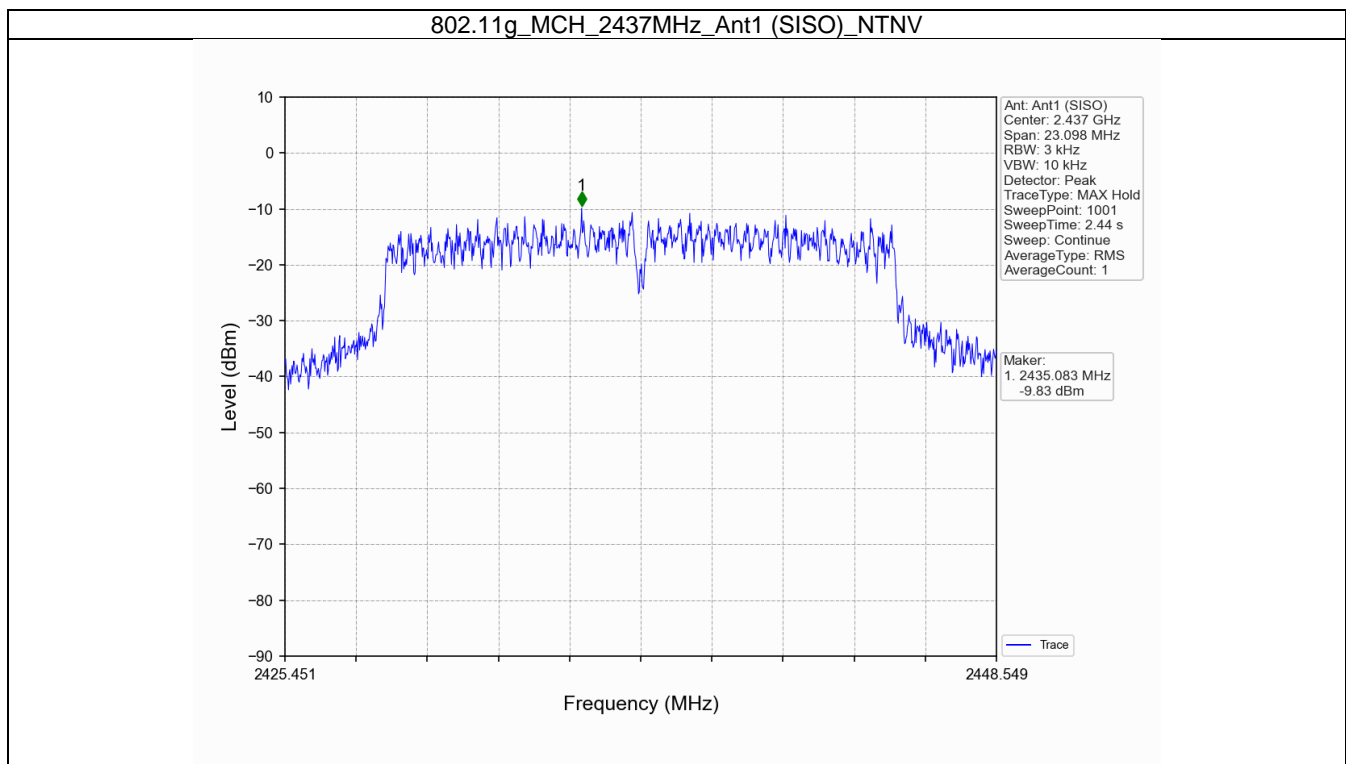
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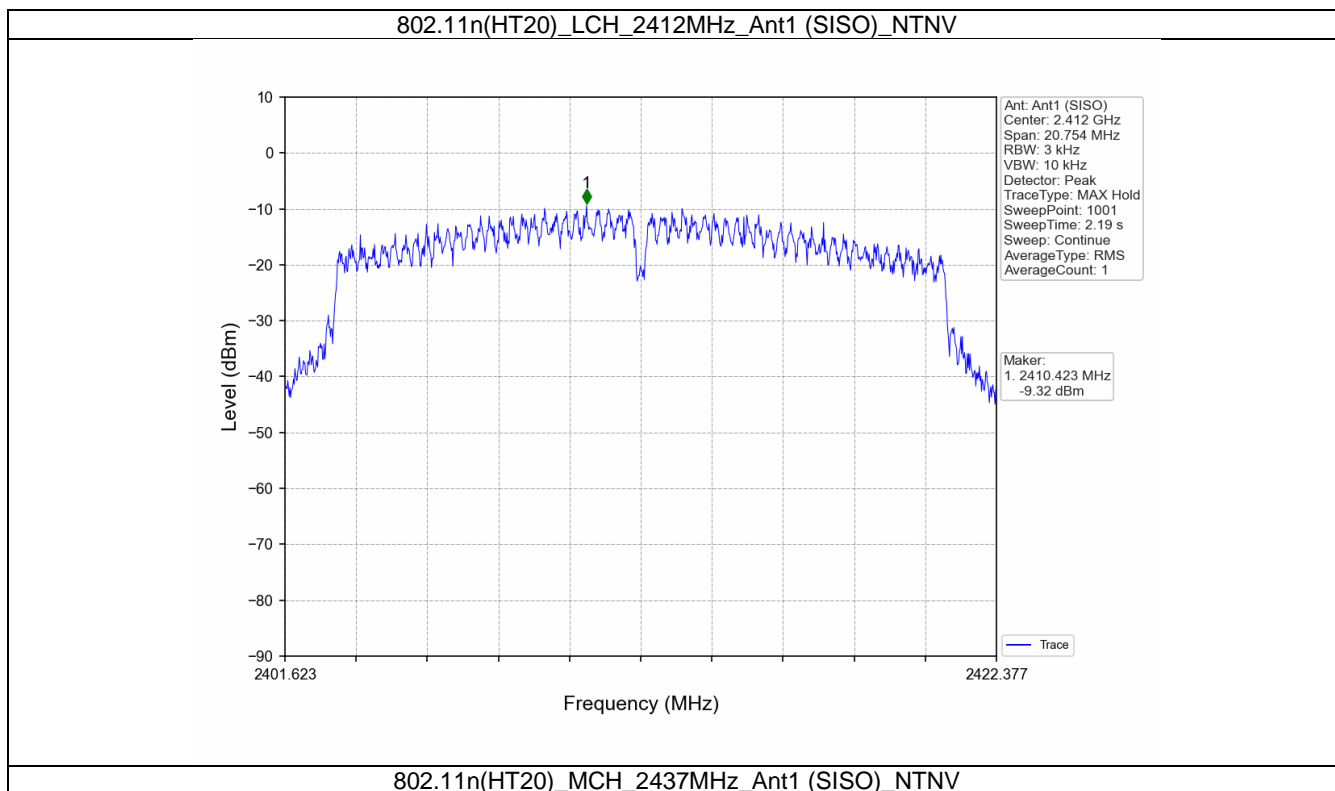
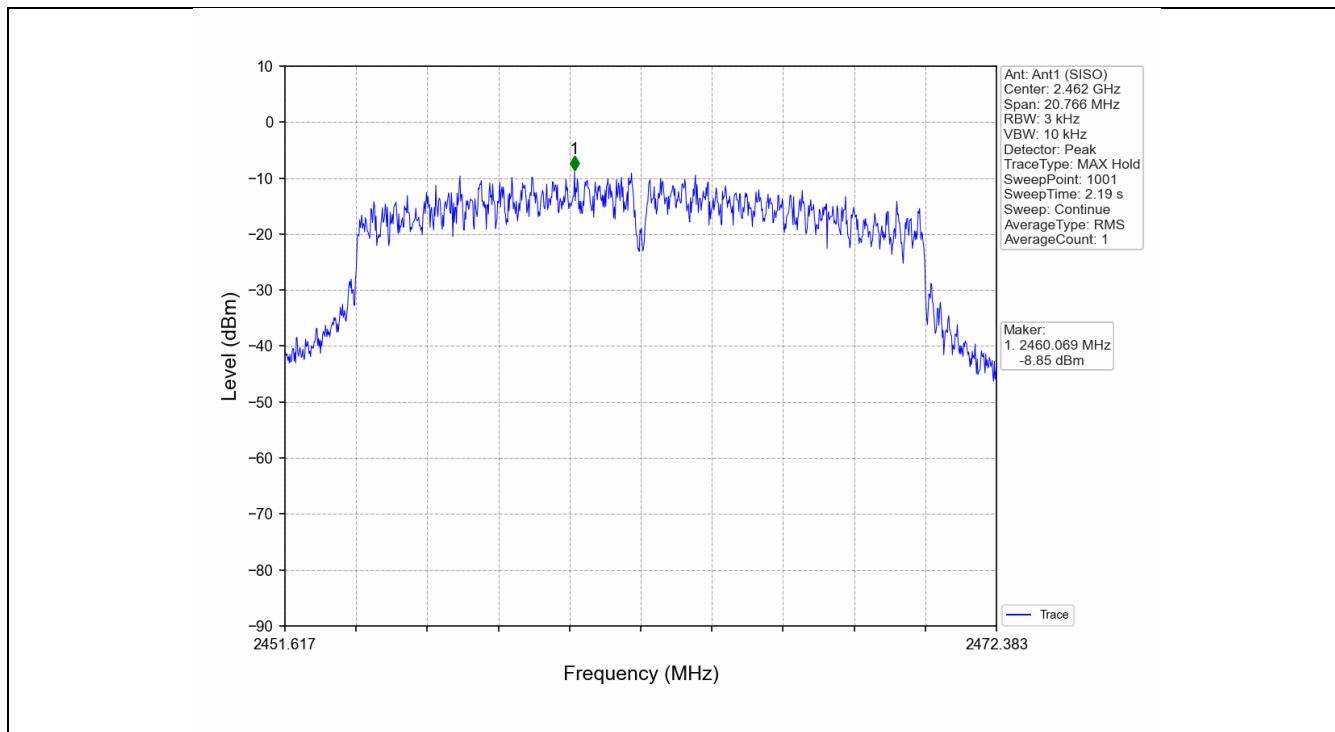
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 EMC Laboratory



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

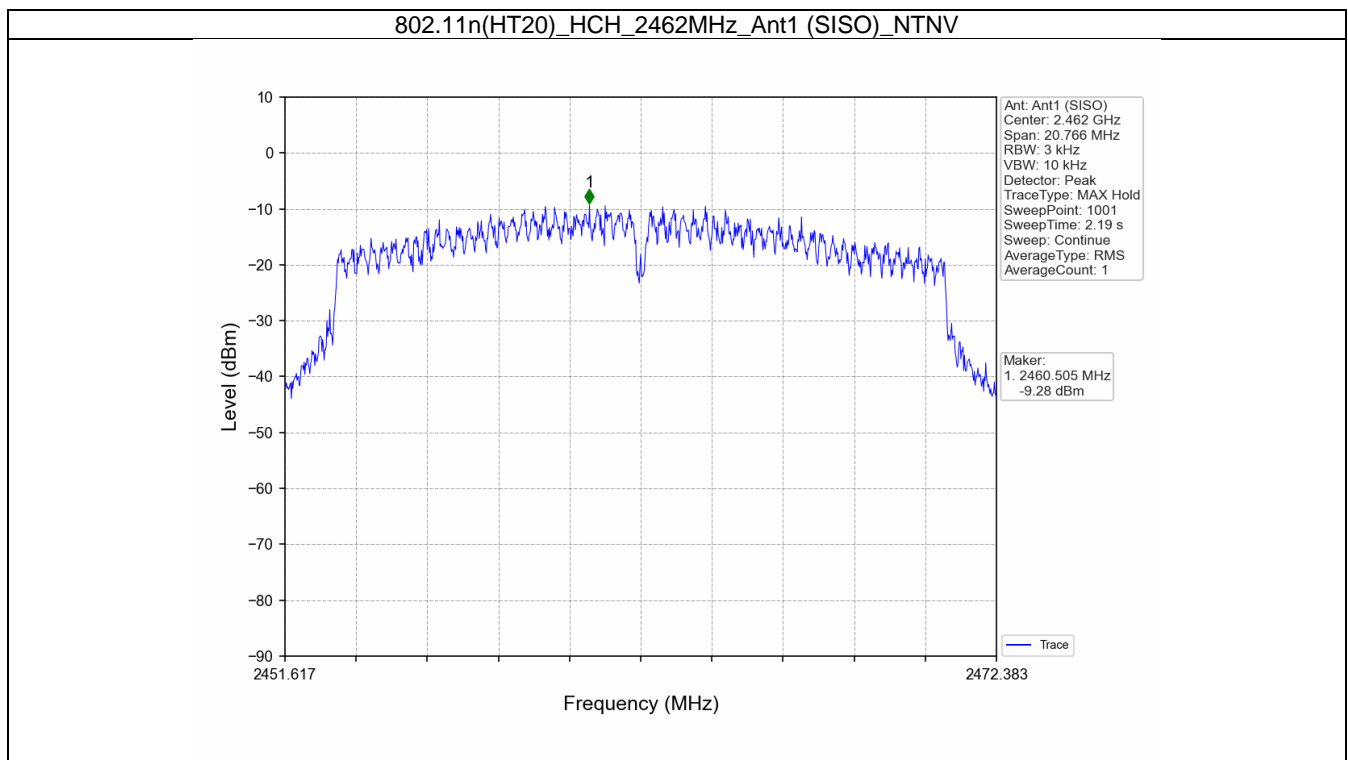
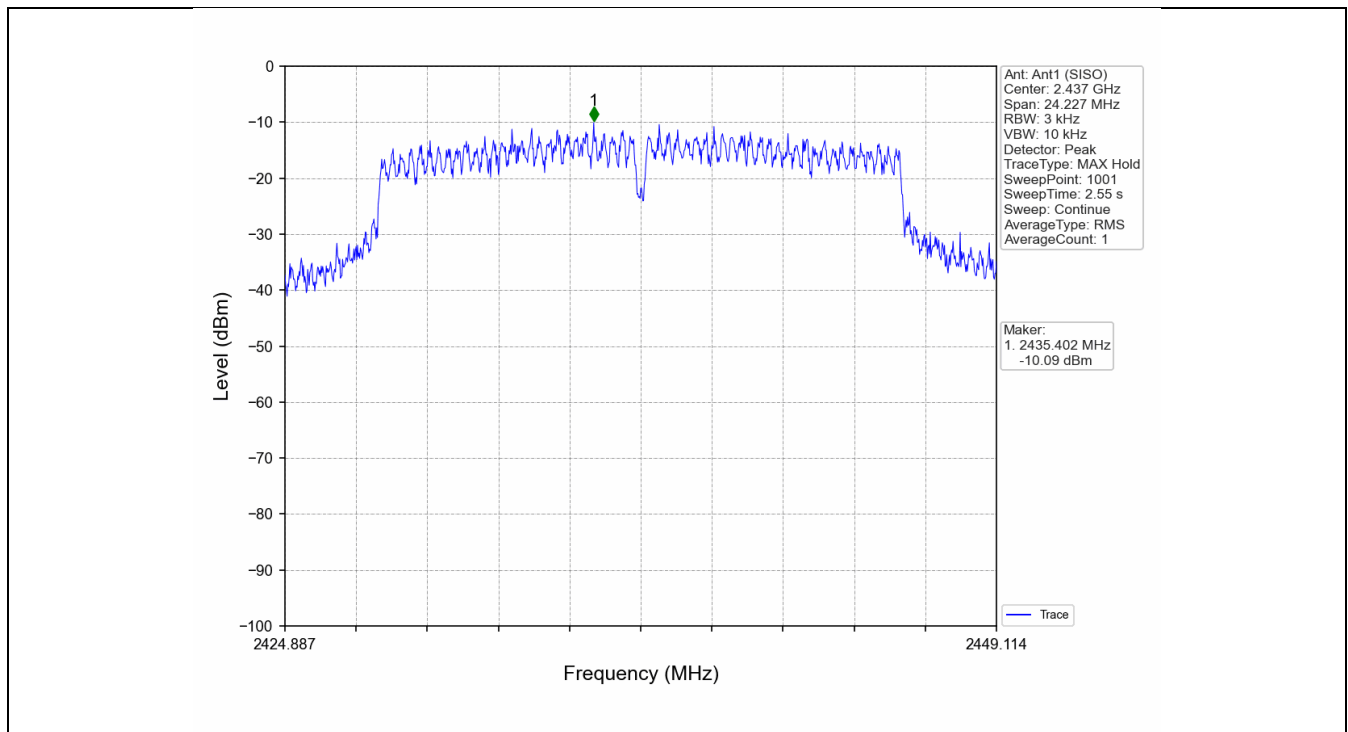


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5. Unwanted Emissions In Non-restricted Frequency Bands

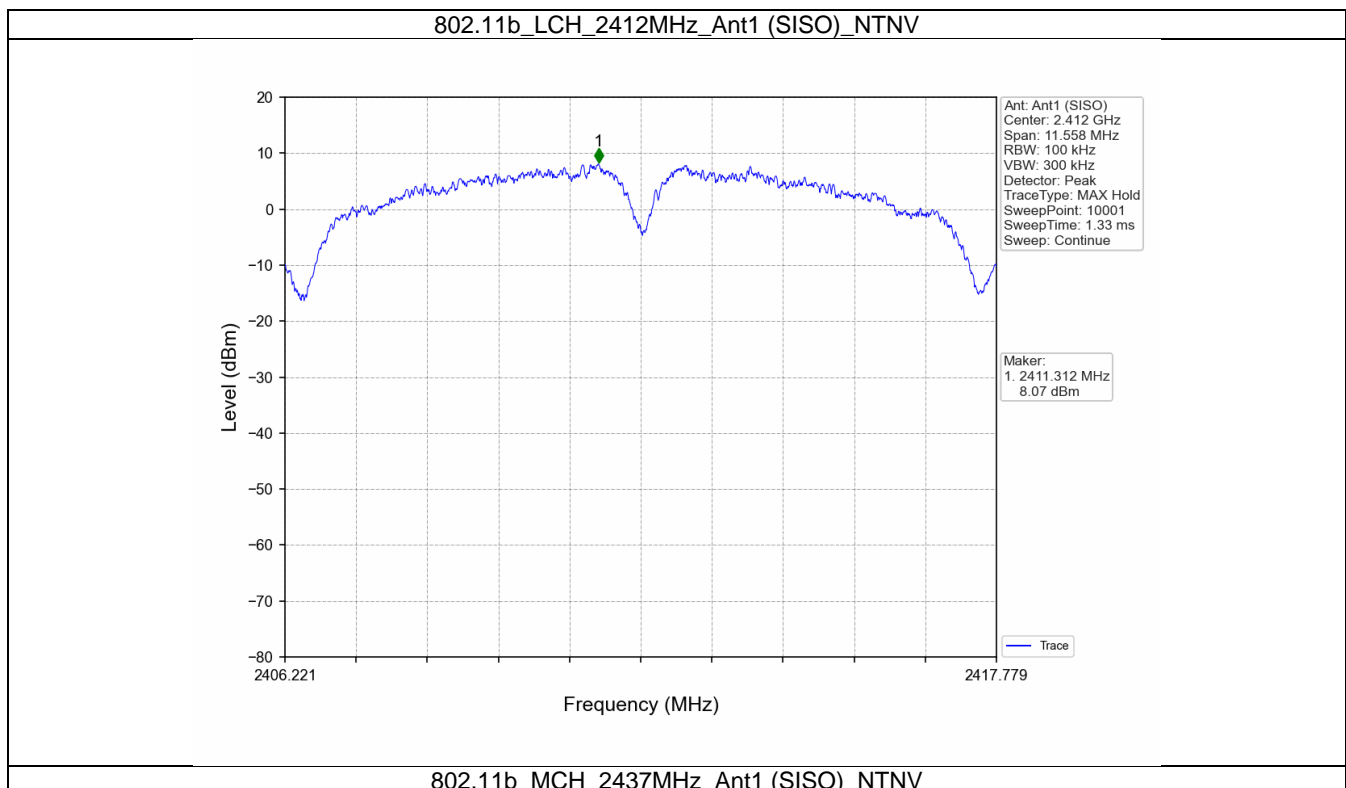
5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	8.07
		2437	1	5.51
		2462	1	10.28
802.11g	SISO	2412	1	5.40
		2437	1	4.06
		2462	1	5.46
802.11n (HT20)	SISO	2412	1	5.22
		2437	1	3.73
		2462	1	5.16

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

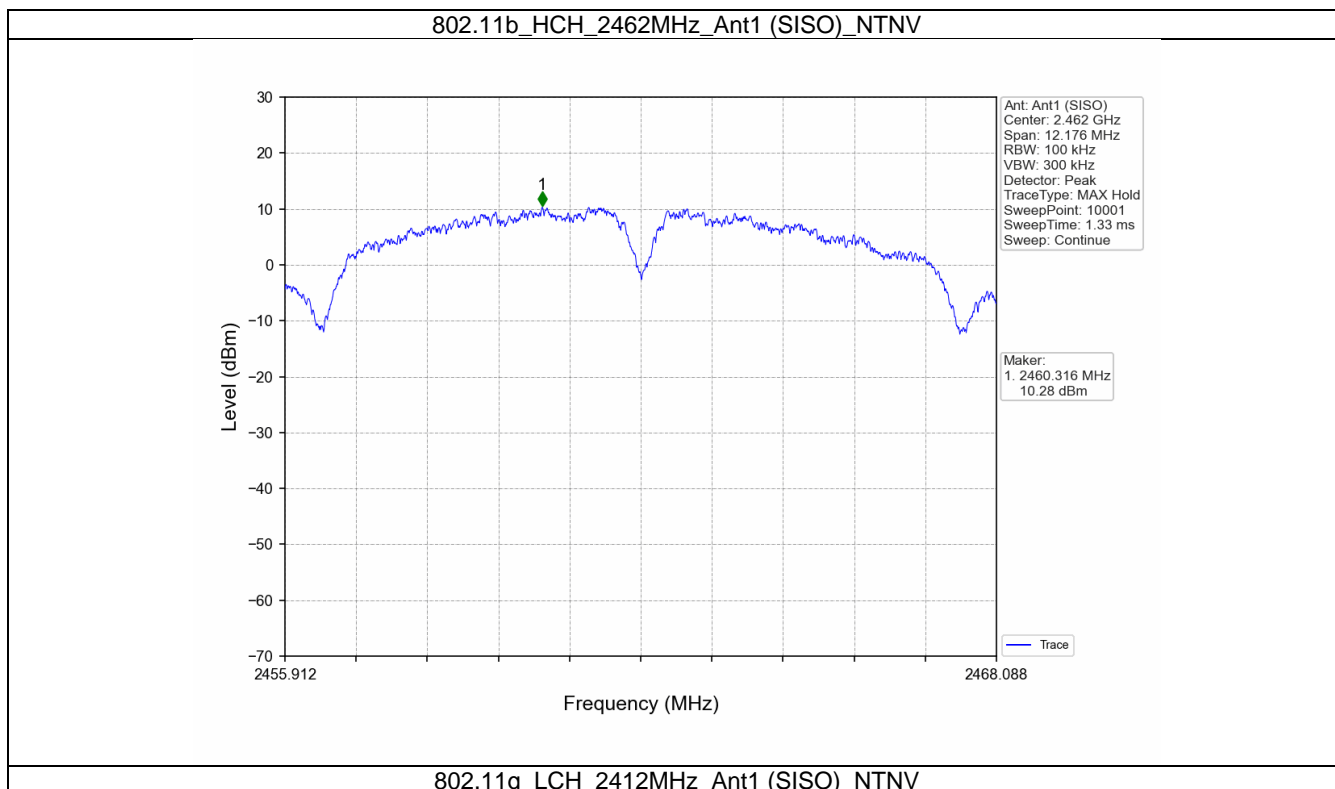
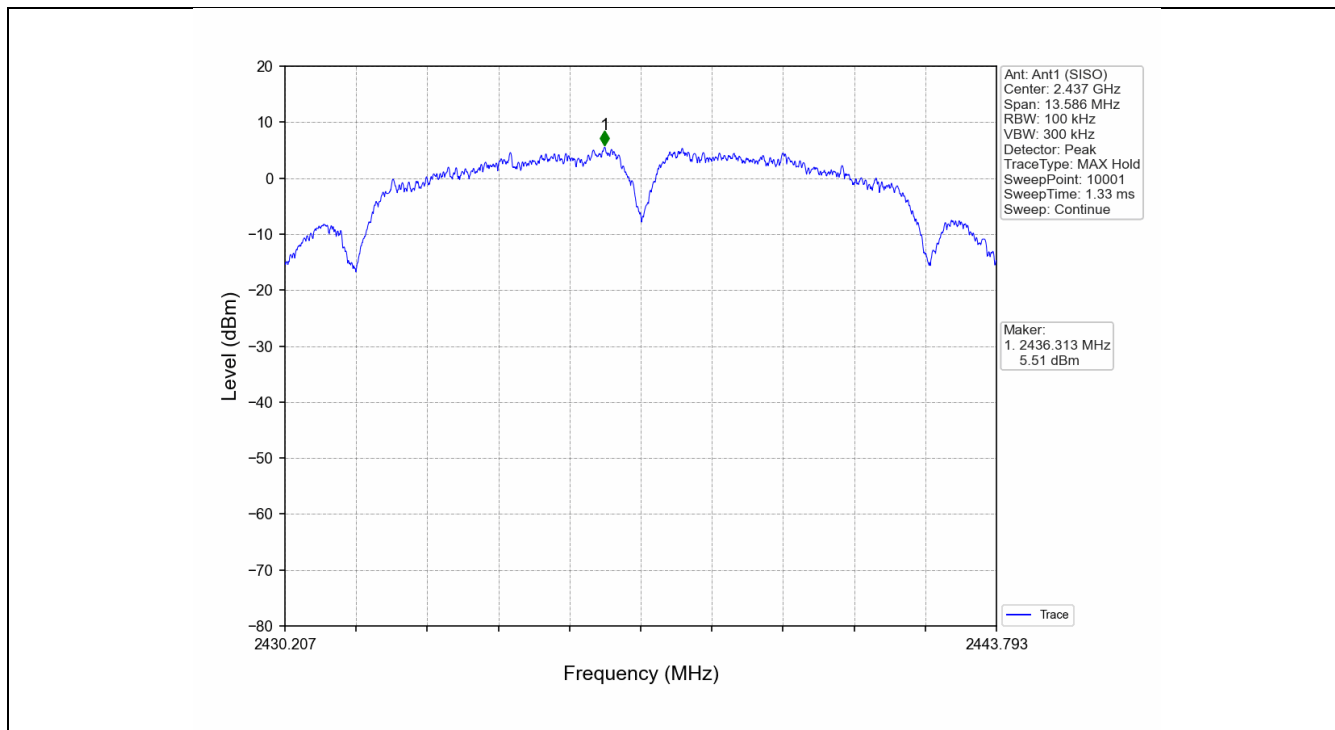


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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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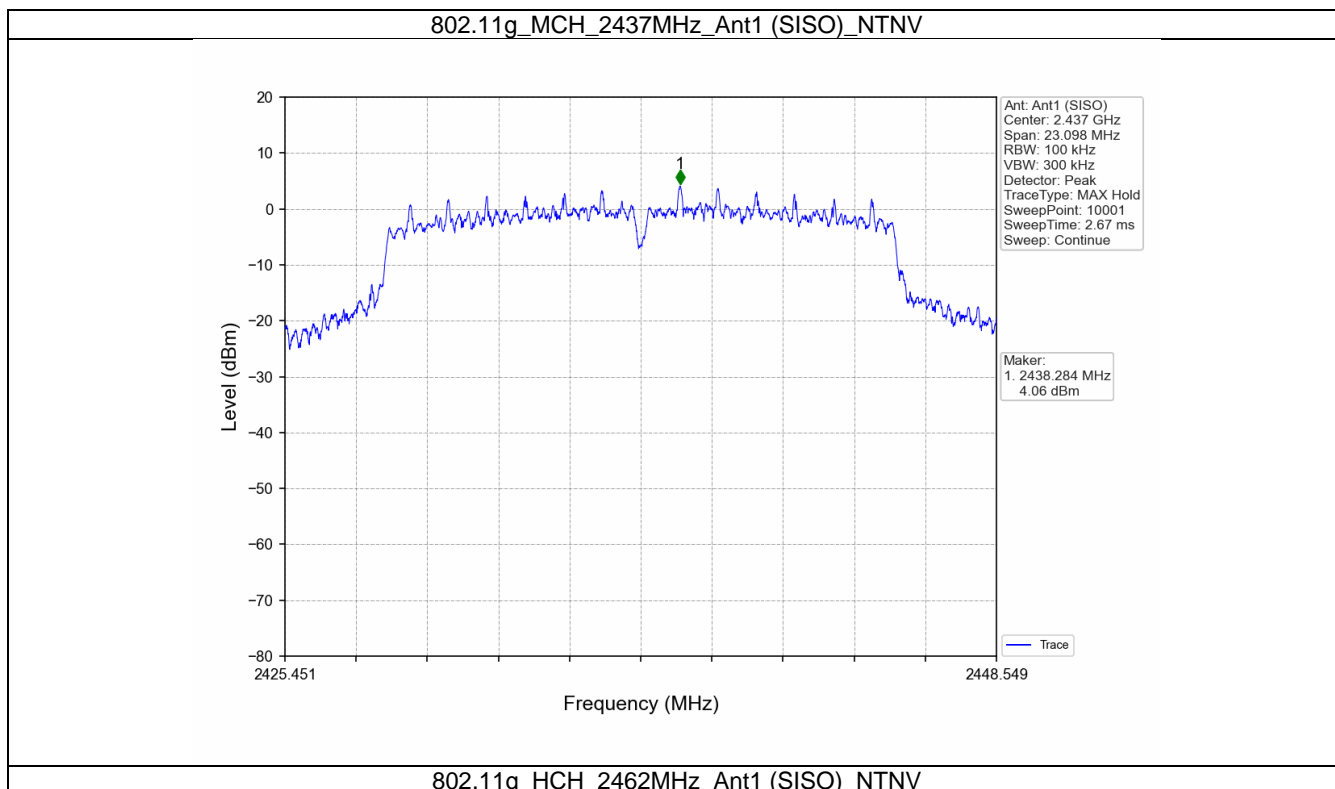
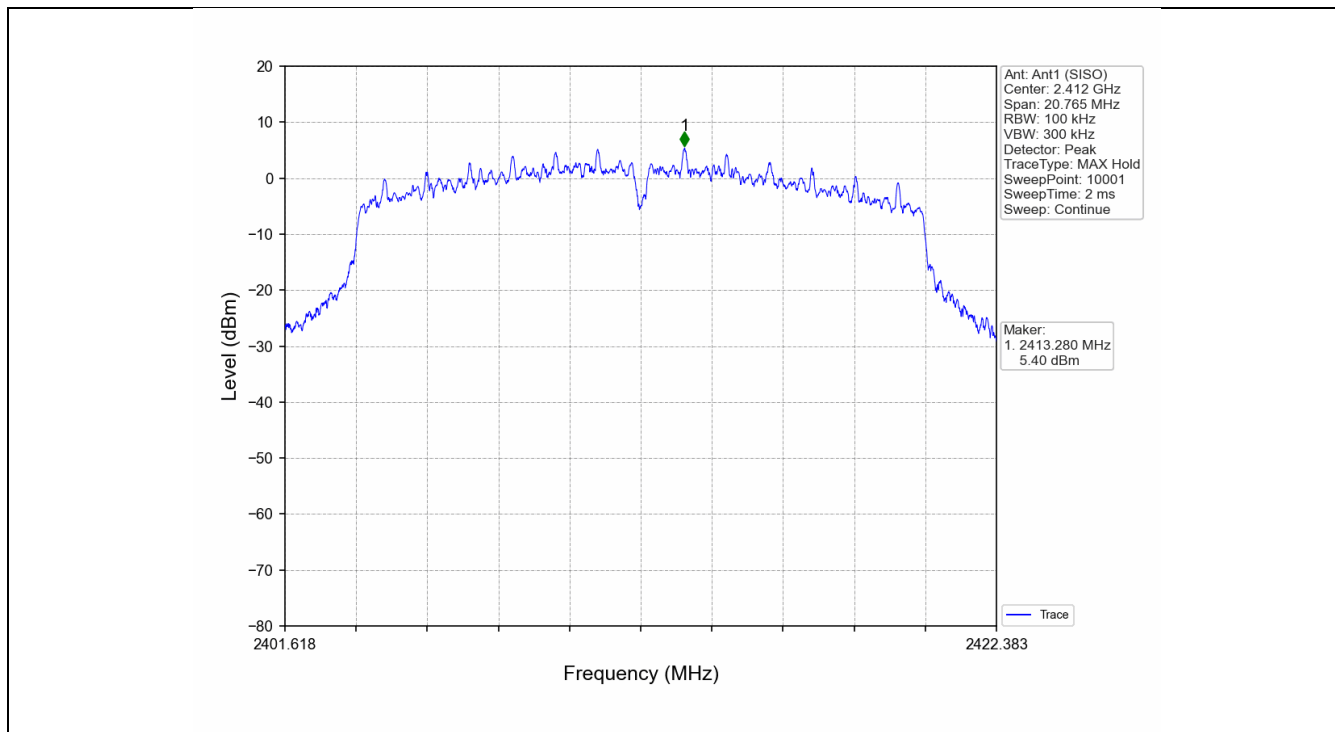
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

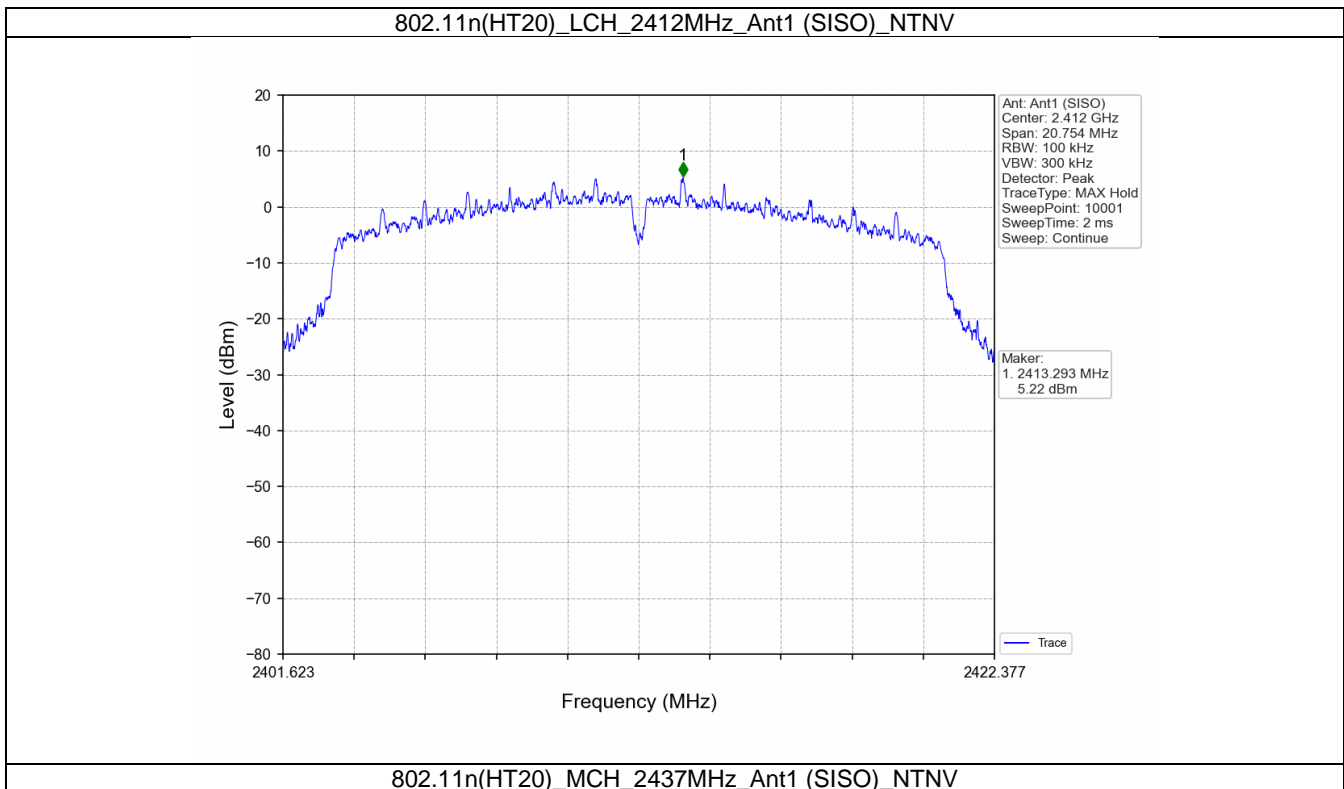
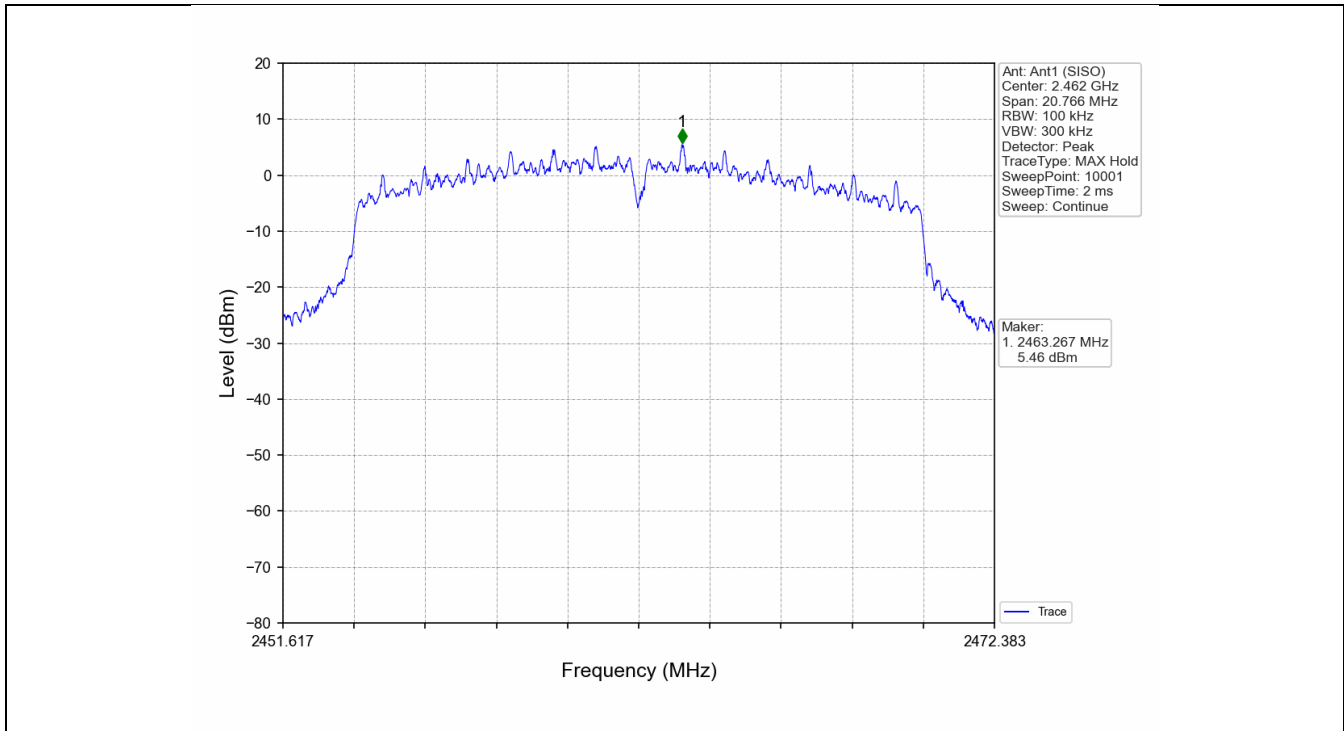
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

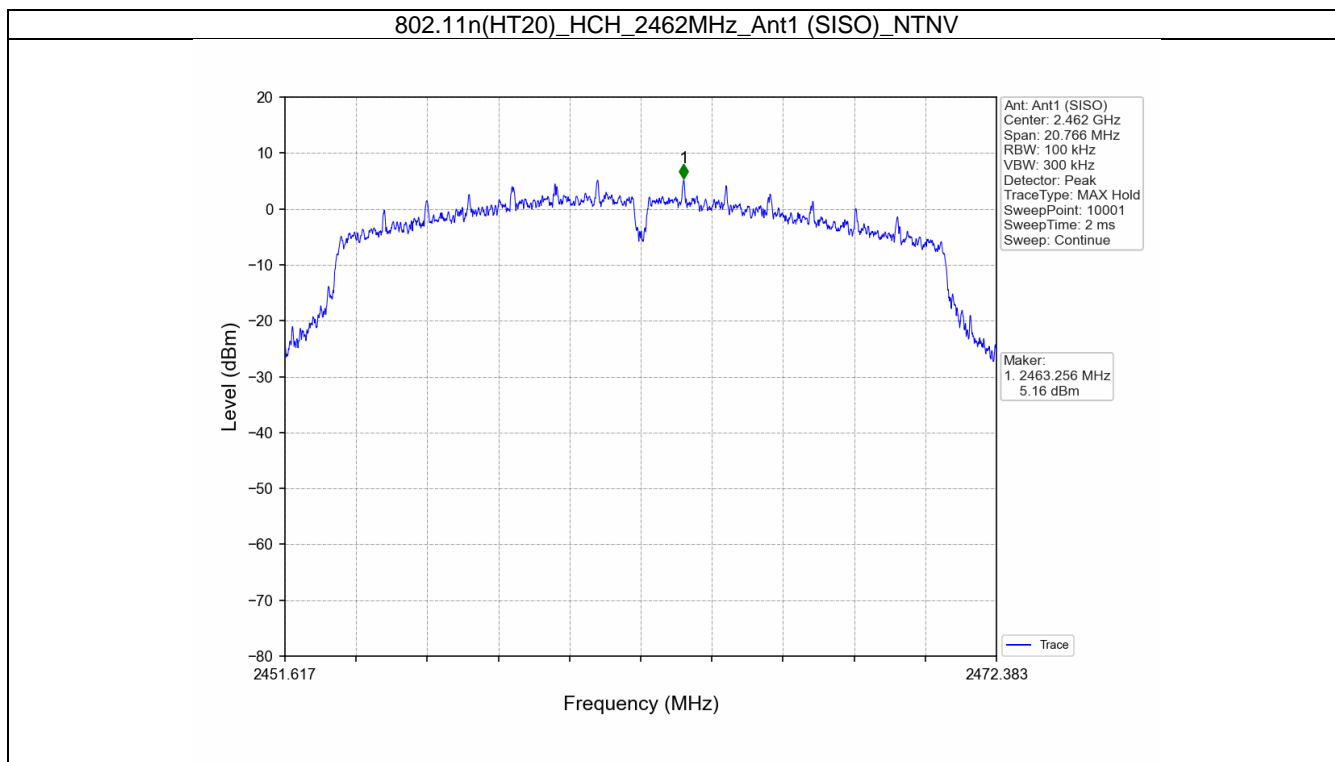
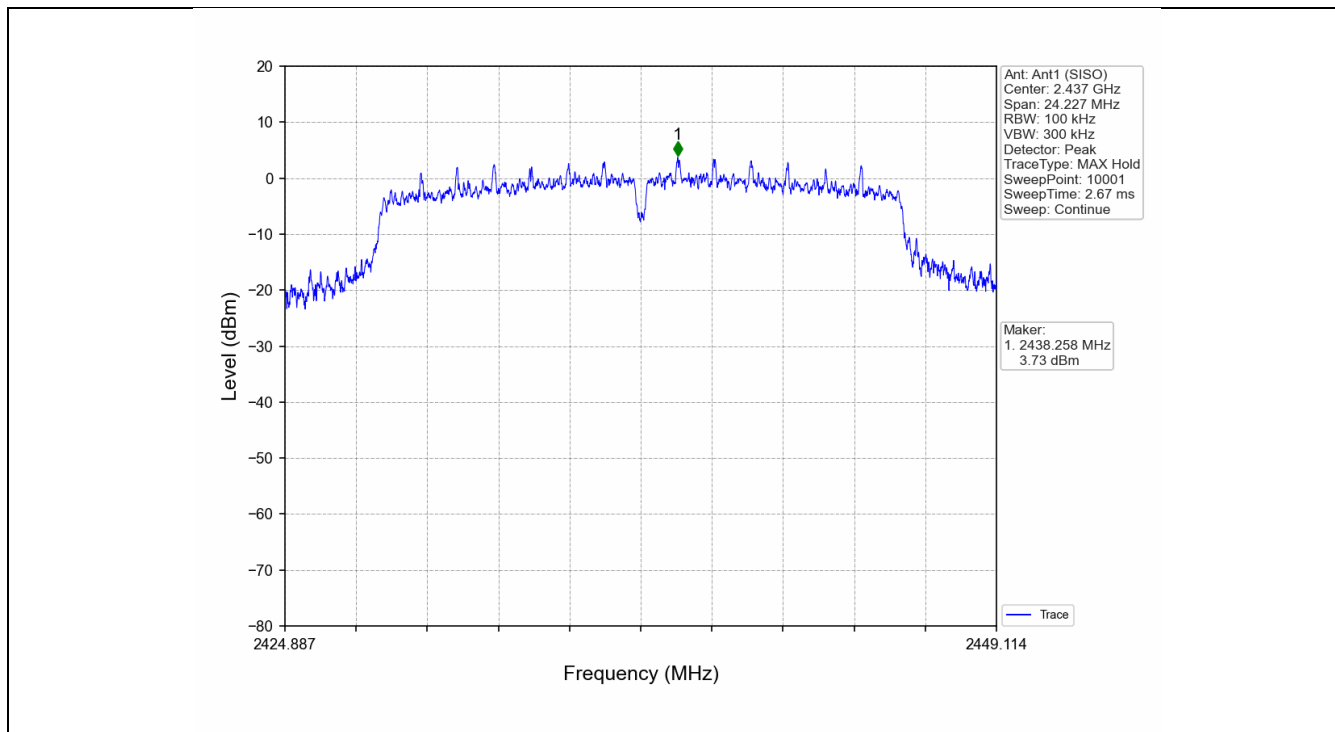
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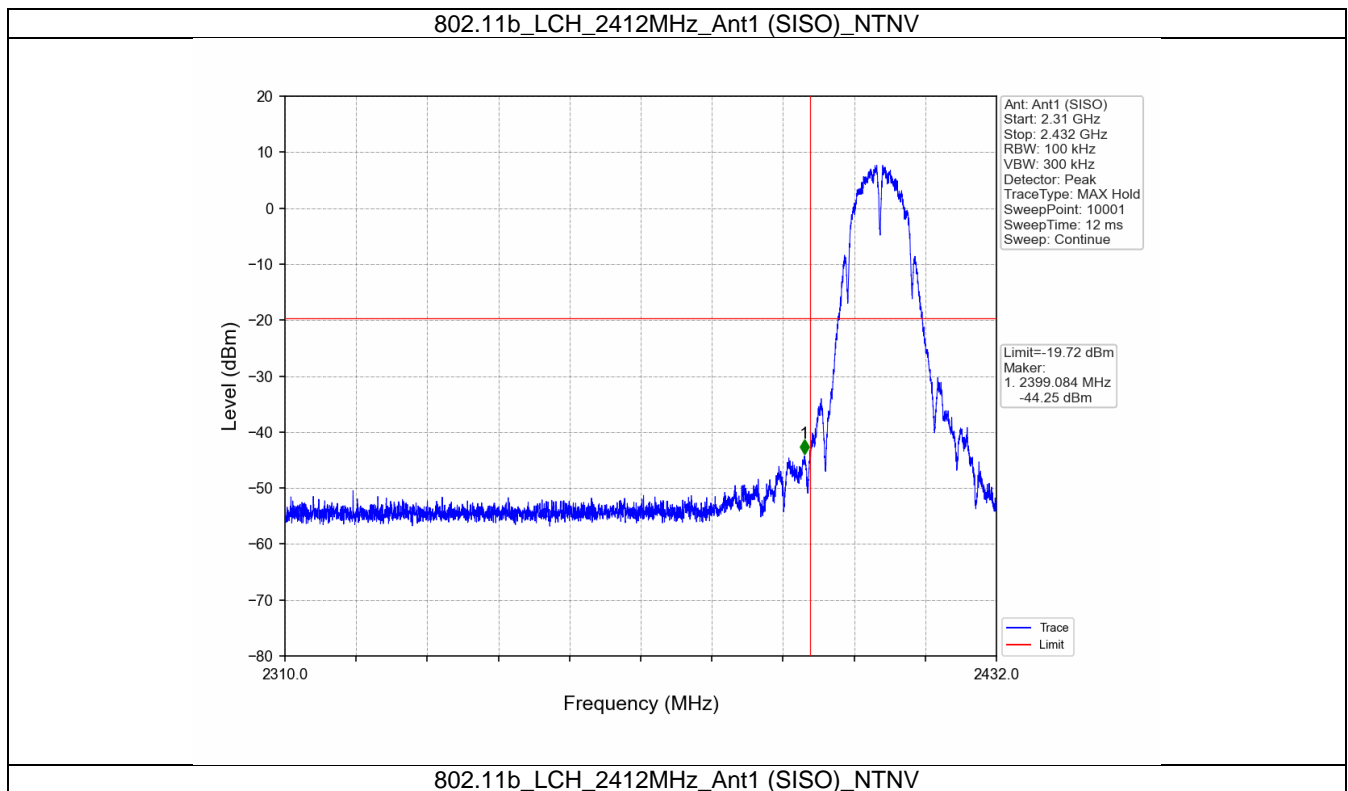
5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	10.28	-19.72	Pass
		2437	1	10.28	-19.72	Pass
		2462	1	10.28	-19.72	Pass
802.11g	SISO	2412	1	5.46	-24.54	Pass
		2437	1	5.46	-24.54	Pass
		2462	1	5.46	-24.54	Pass
802.11n (HT20)	SISO	2412	1	5.22	-24.78	Pass
		2437	1	5.22	-24.78	Pass
		2462	1	5.22	-24.78	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

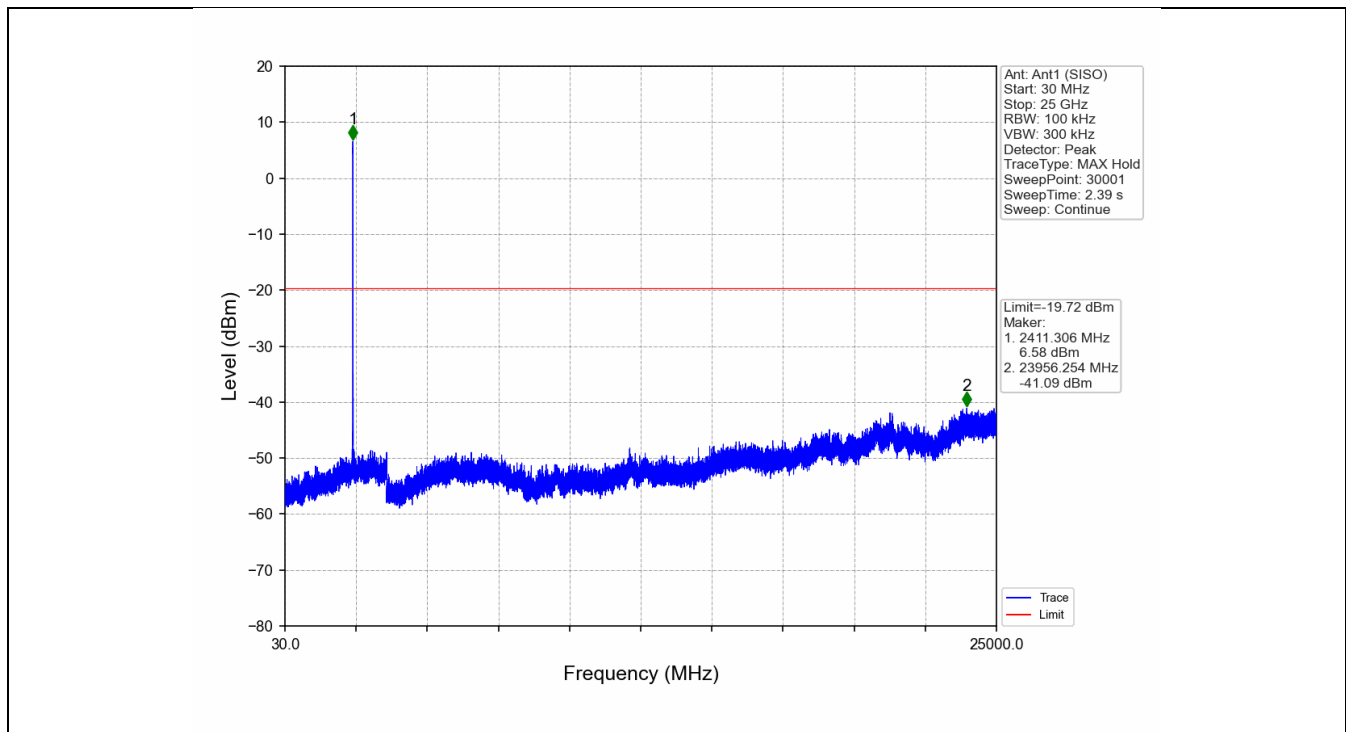


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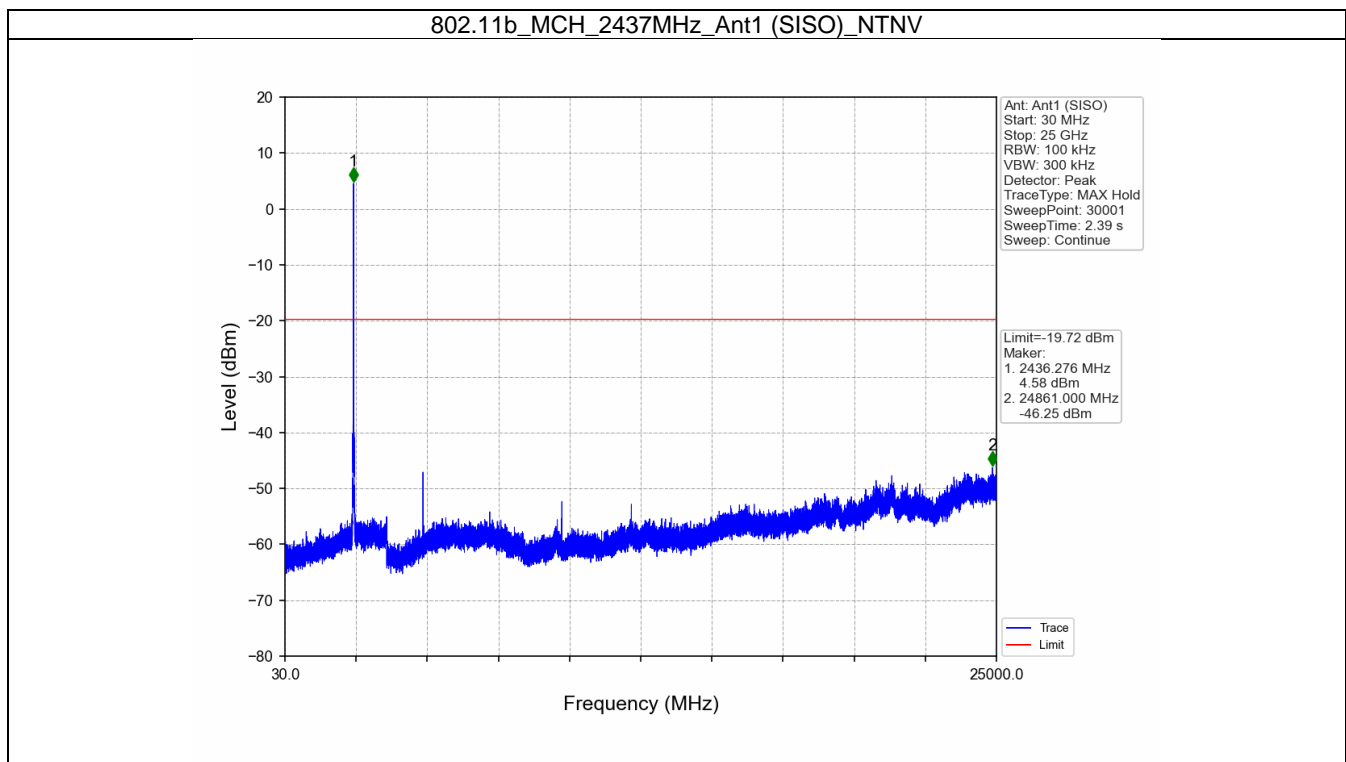
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

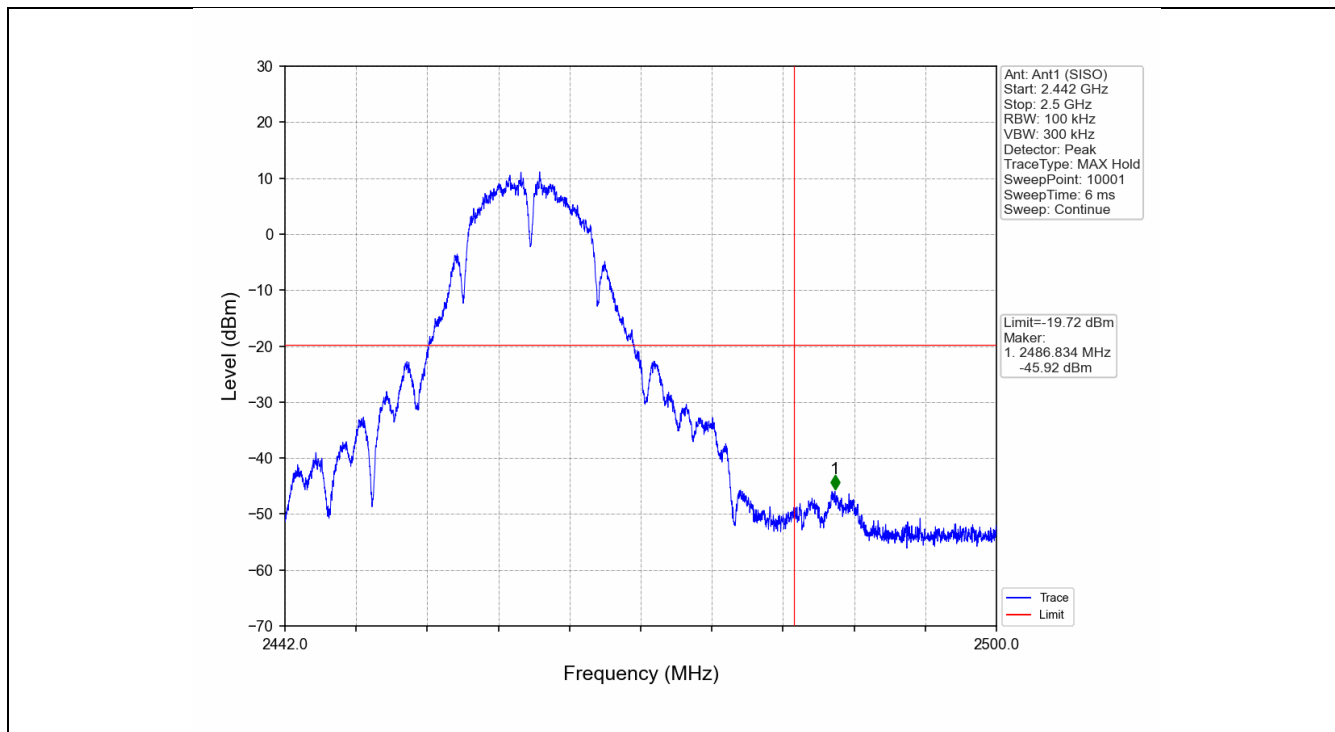


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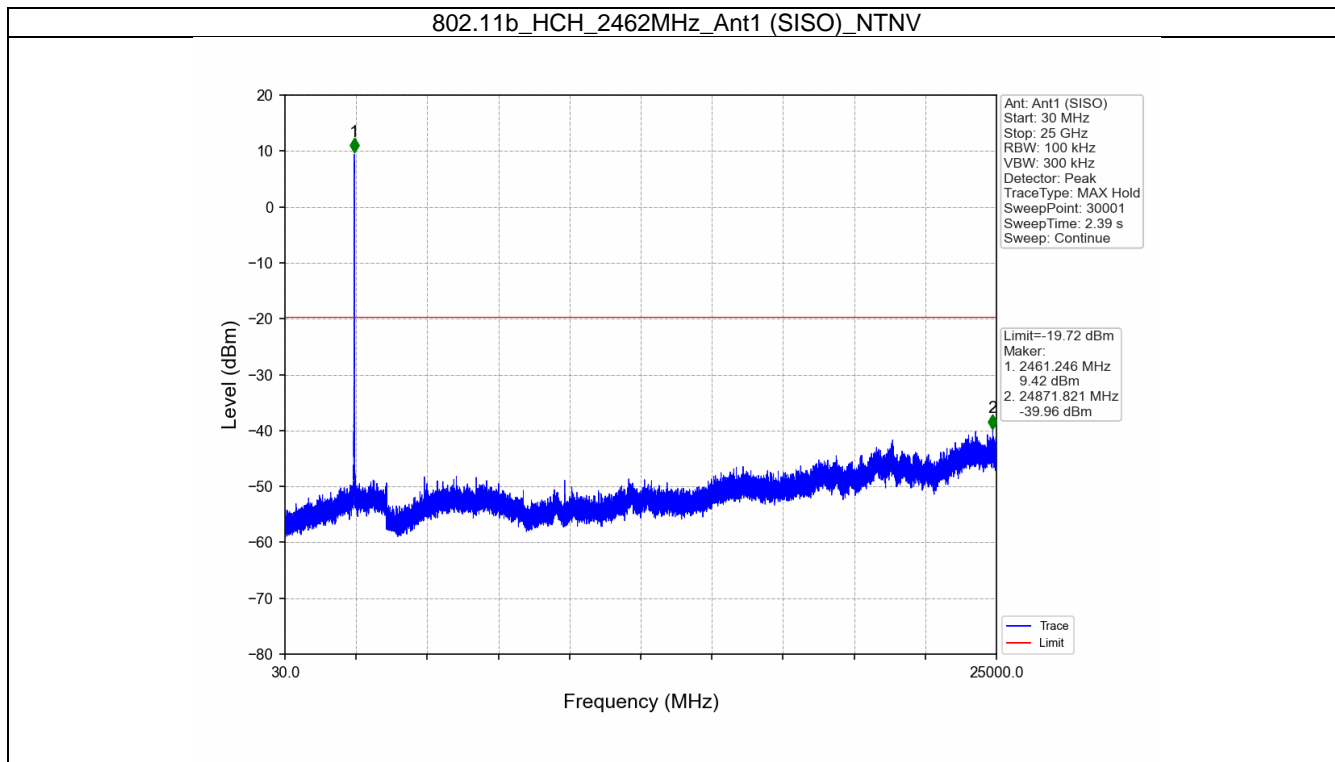
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

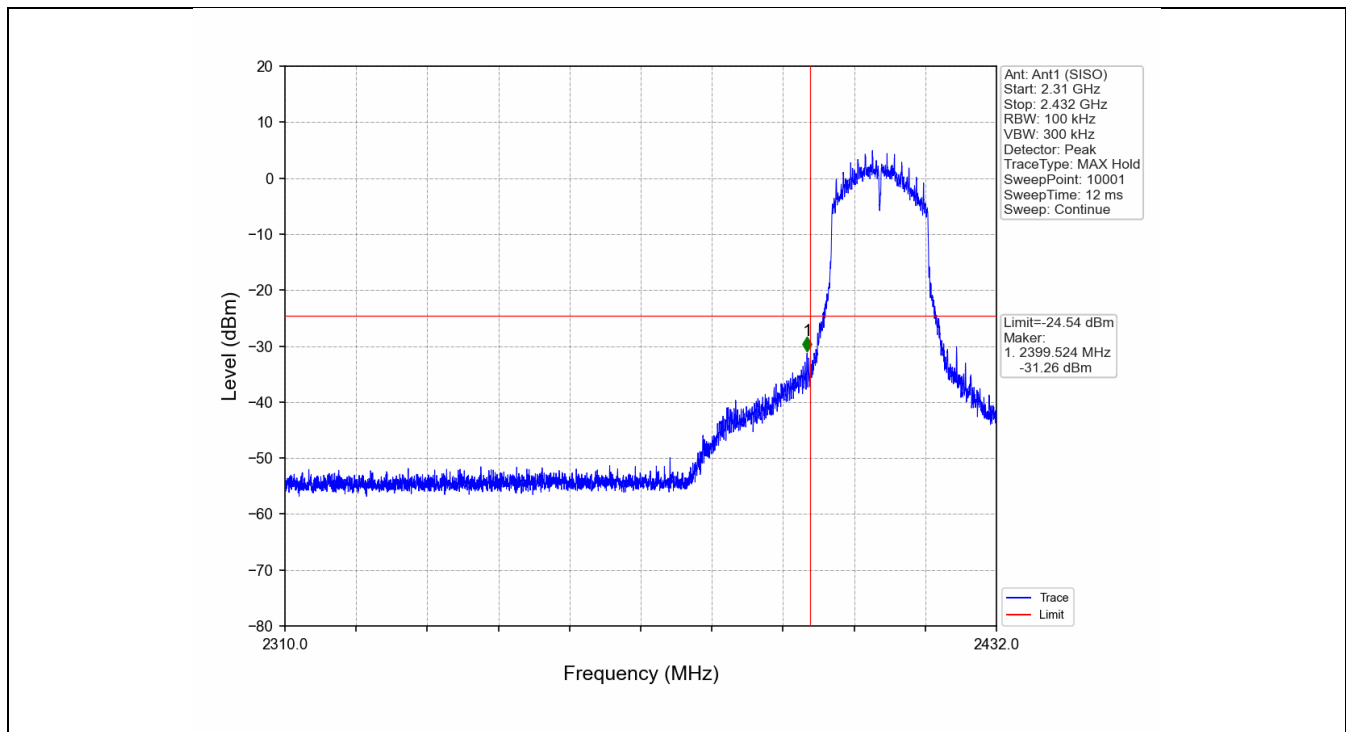


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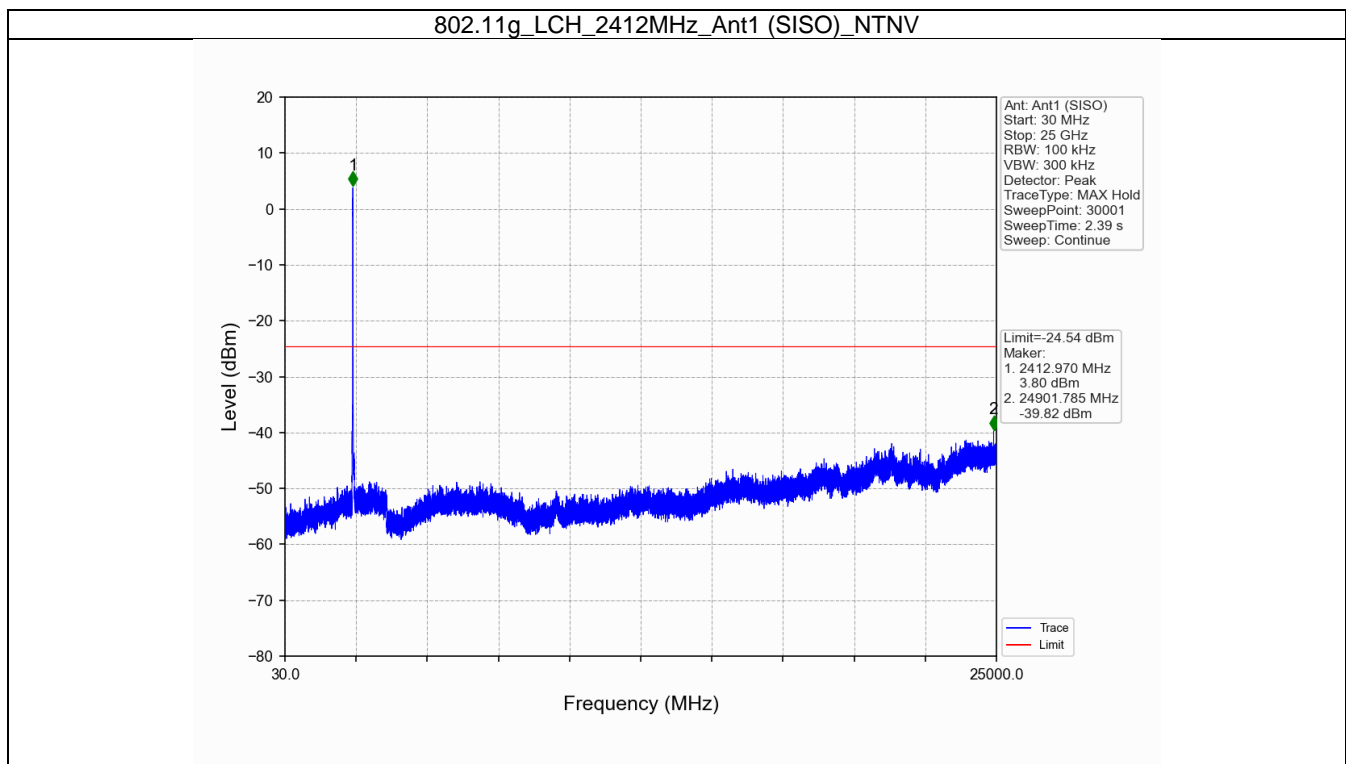
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

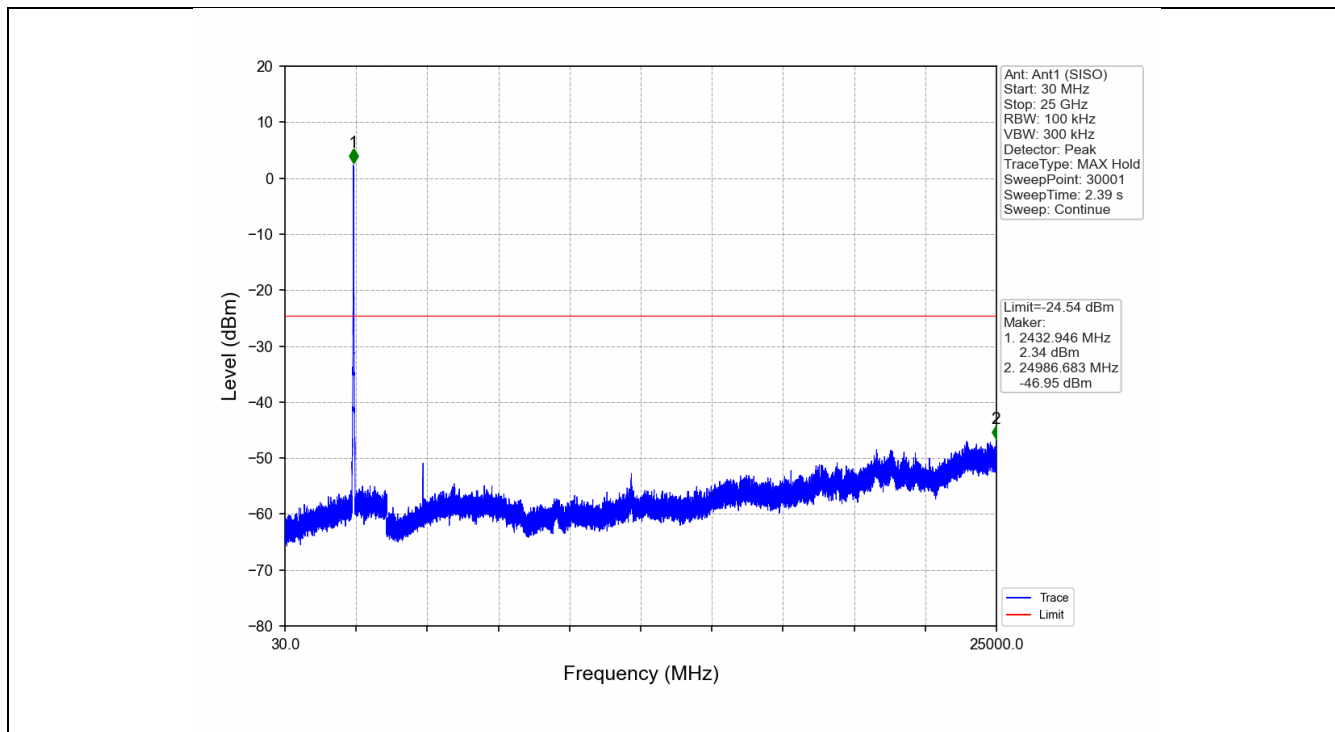


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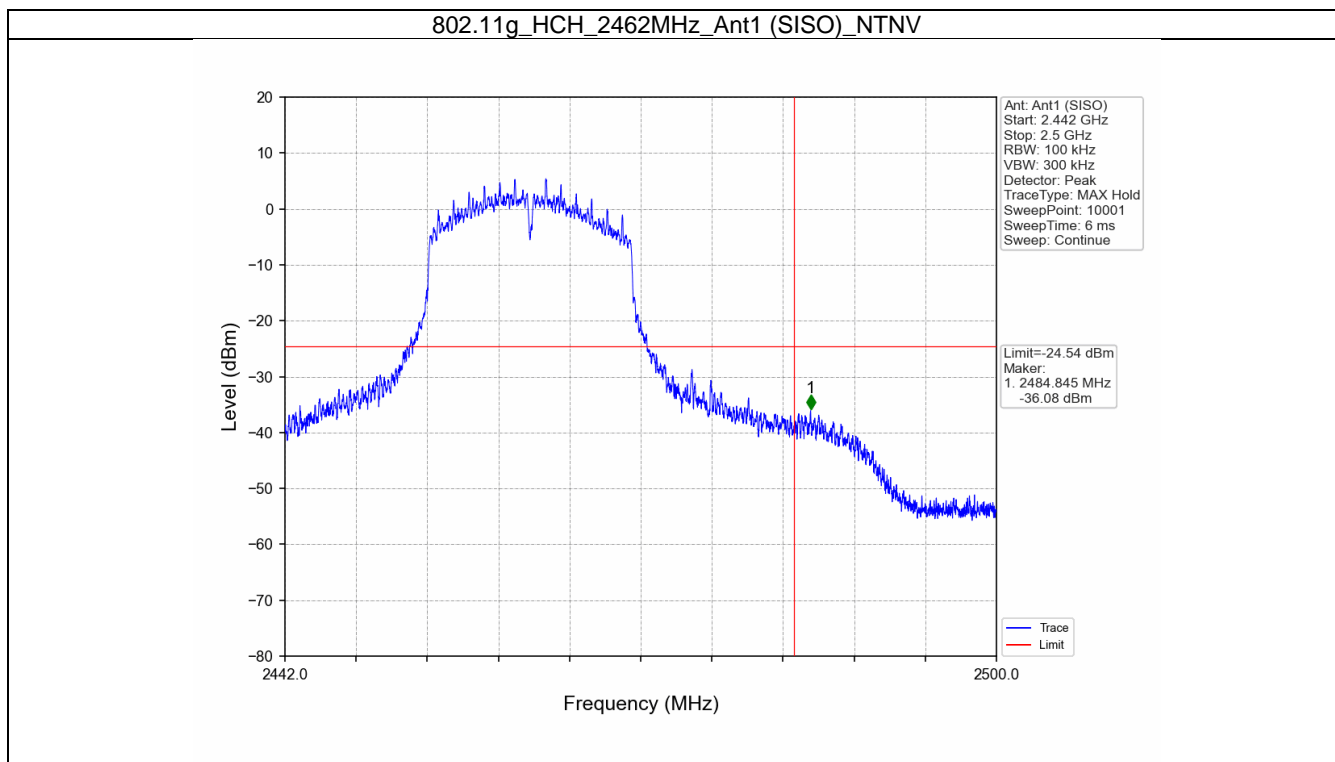
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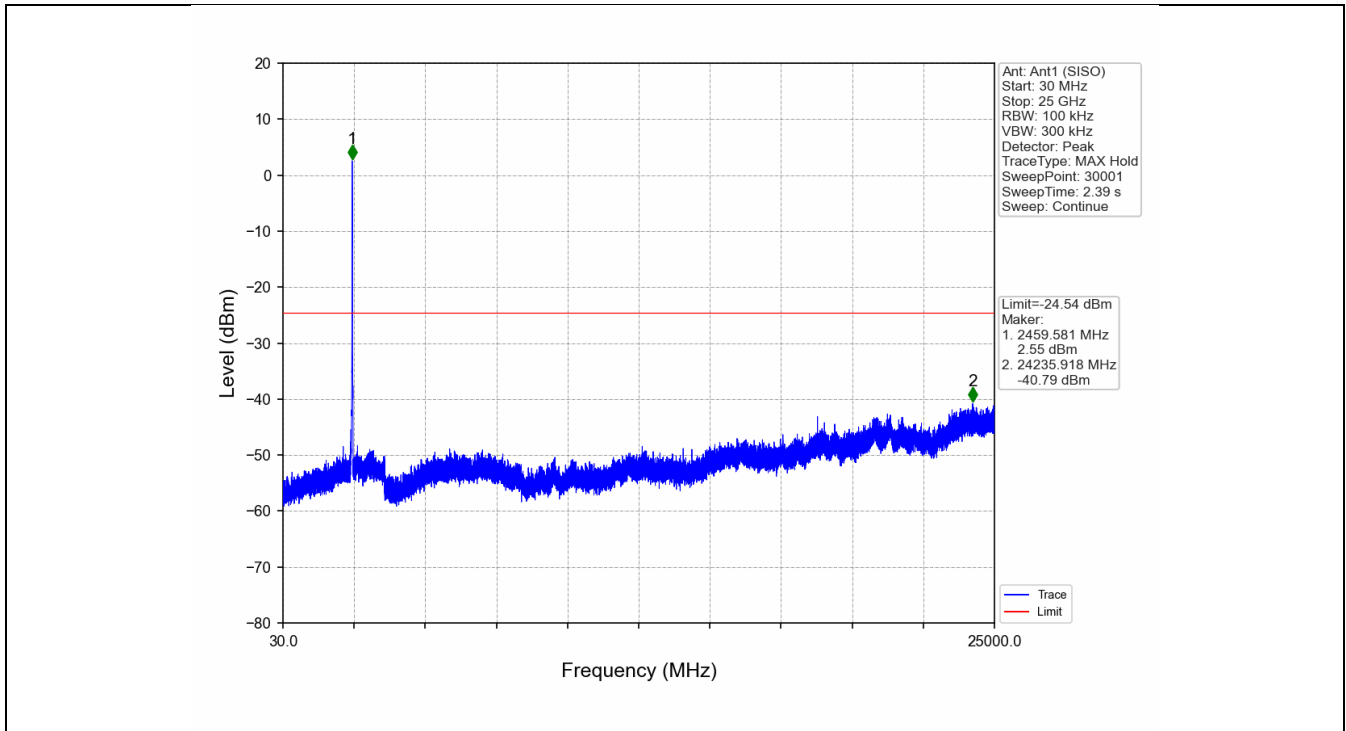


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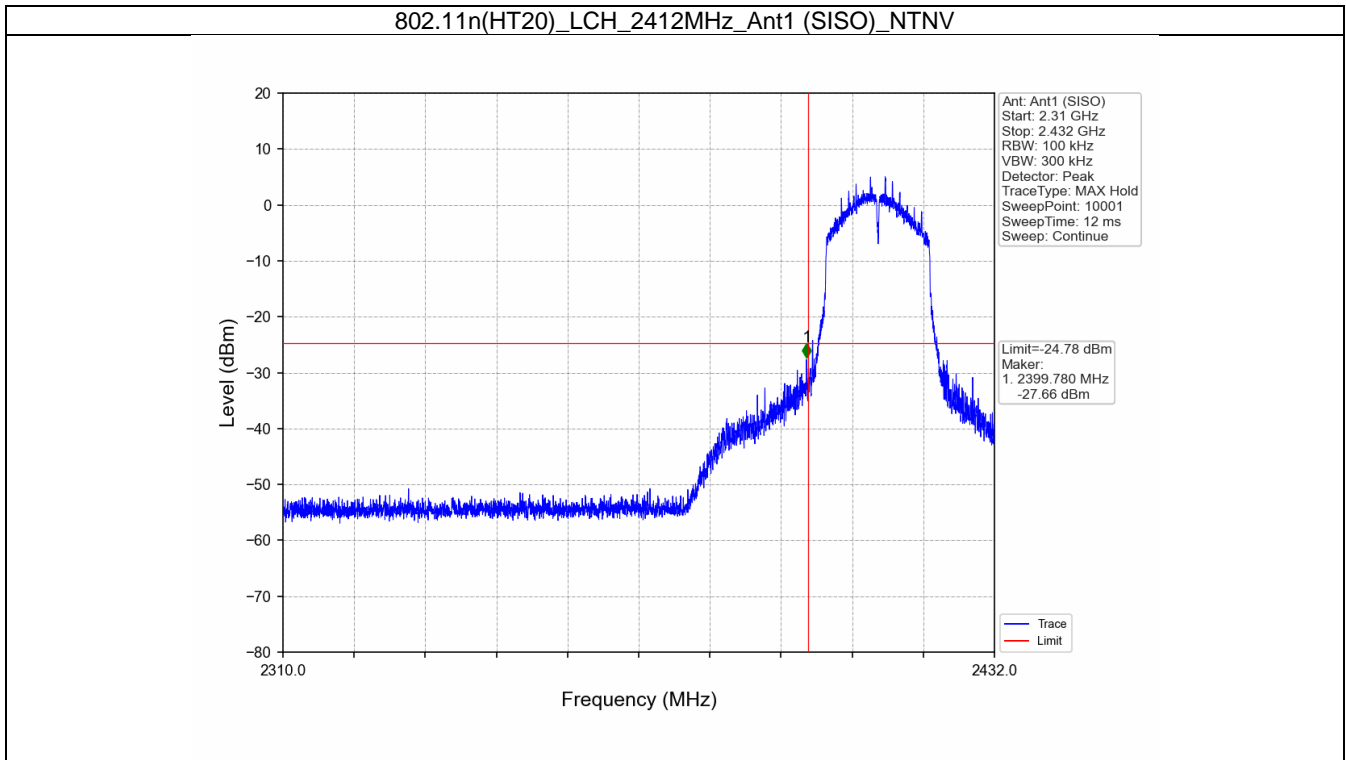
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

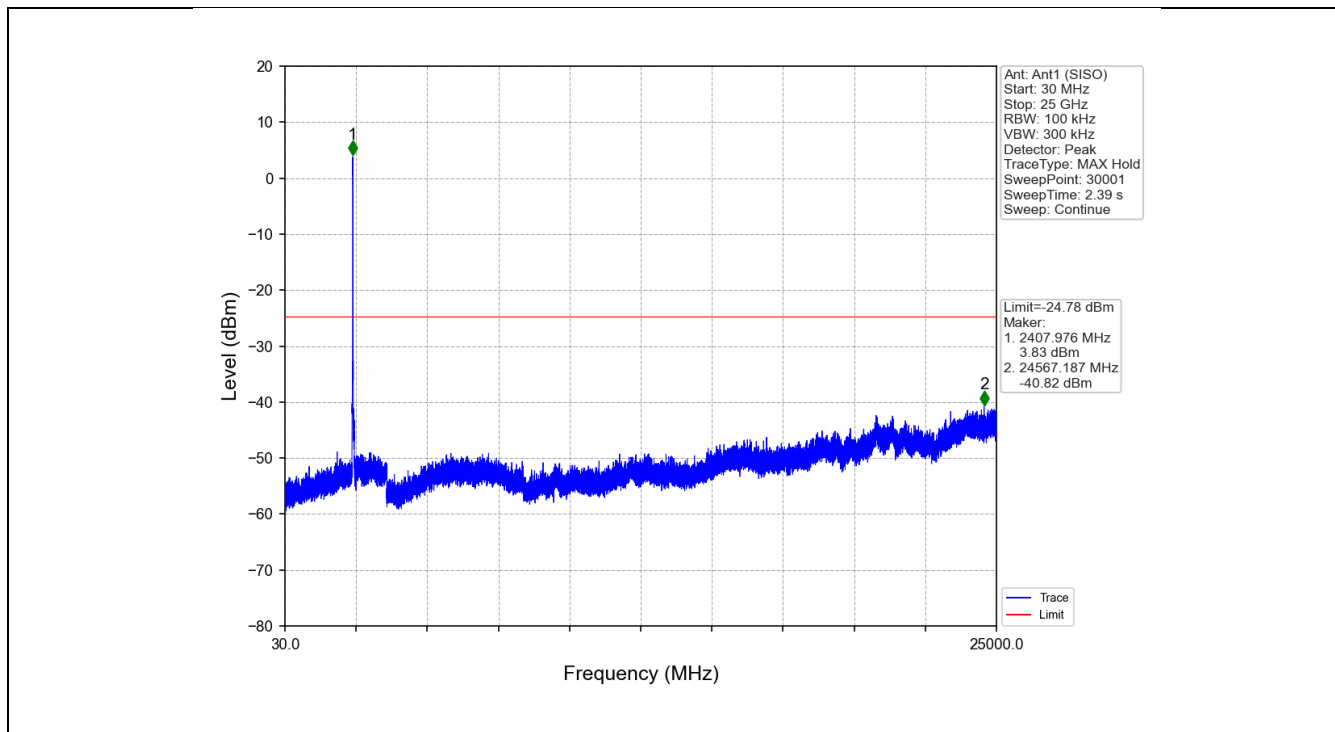


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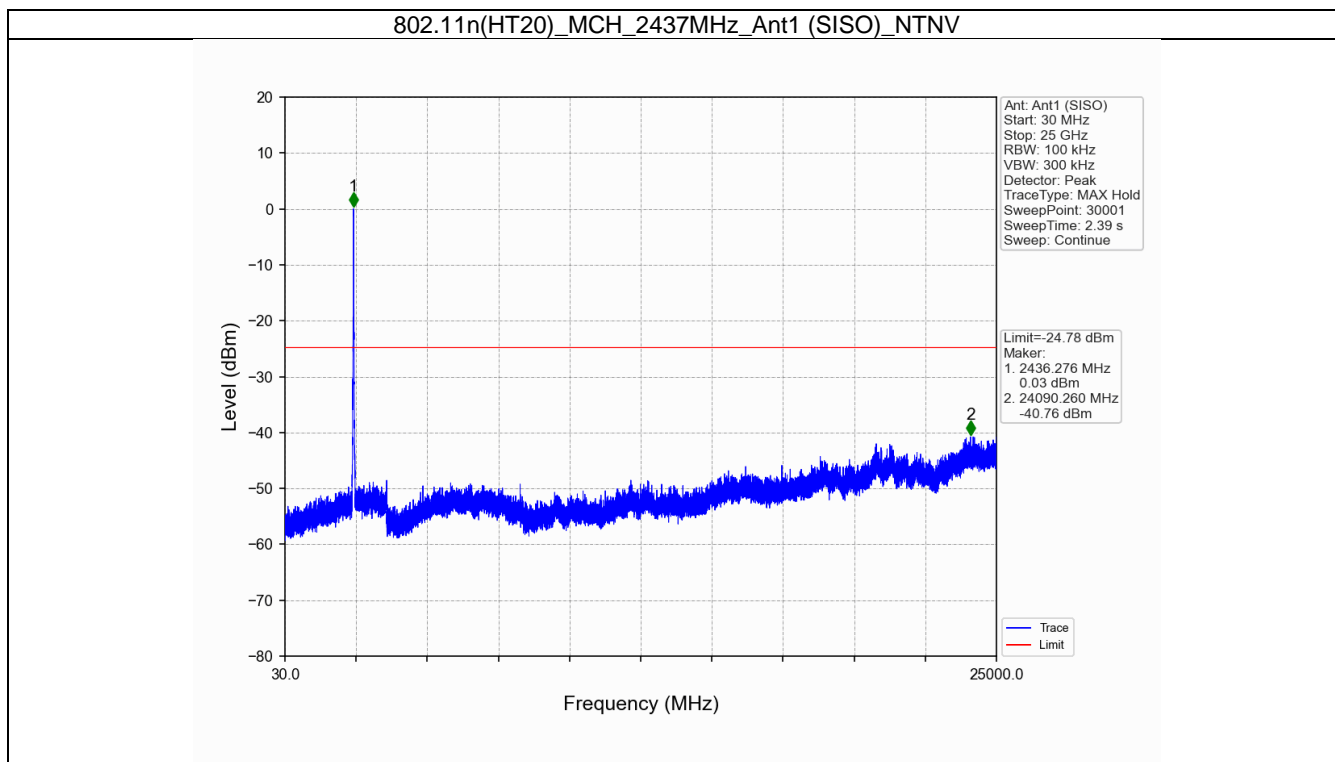
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t(86-512)57355888 f(86-512)57370818 www.sgs.com.cn
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

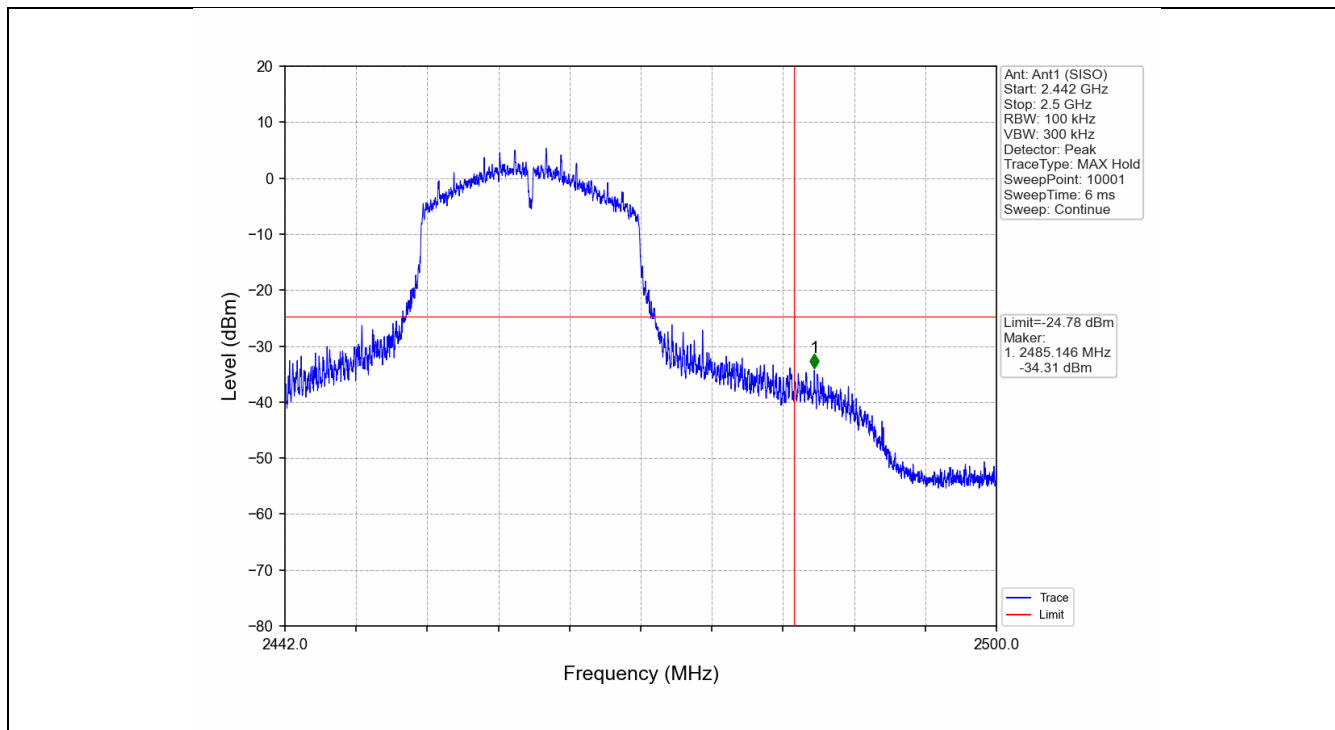
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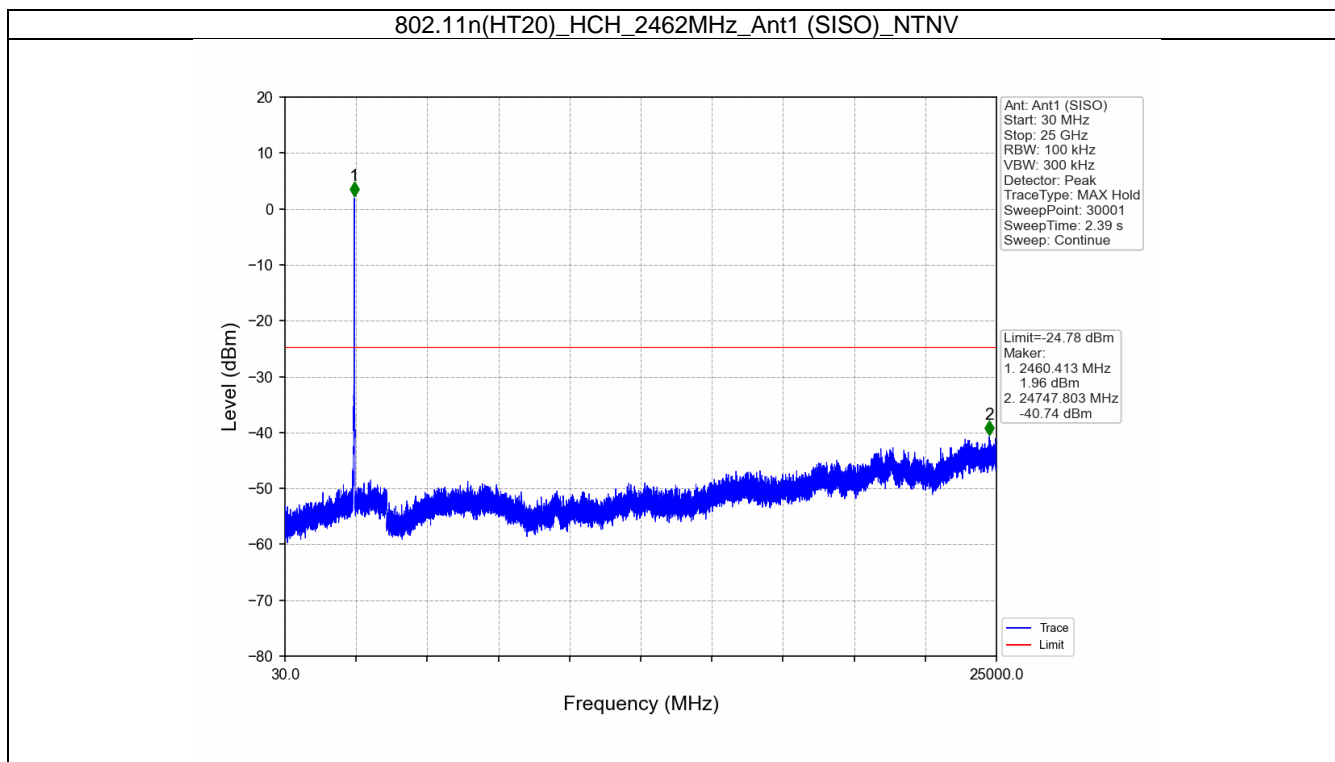
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