



Appendix A for SHEM210800965701

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

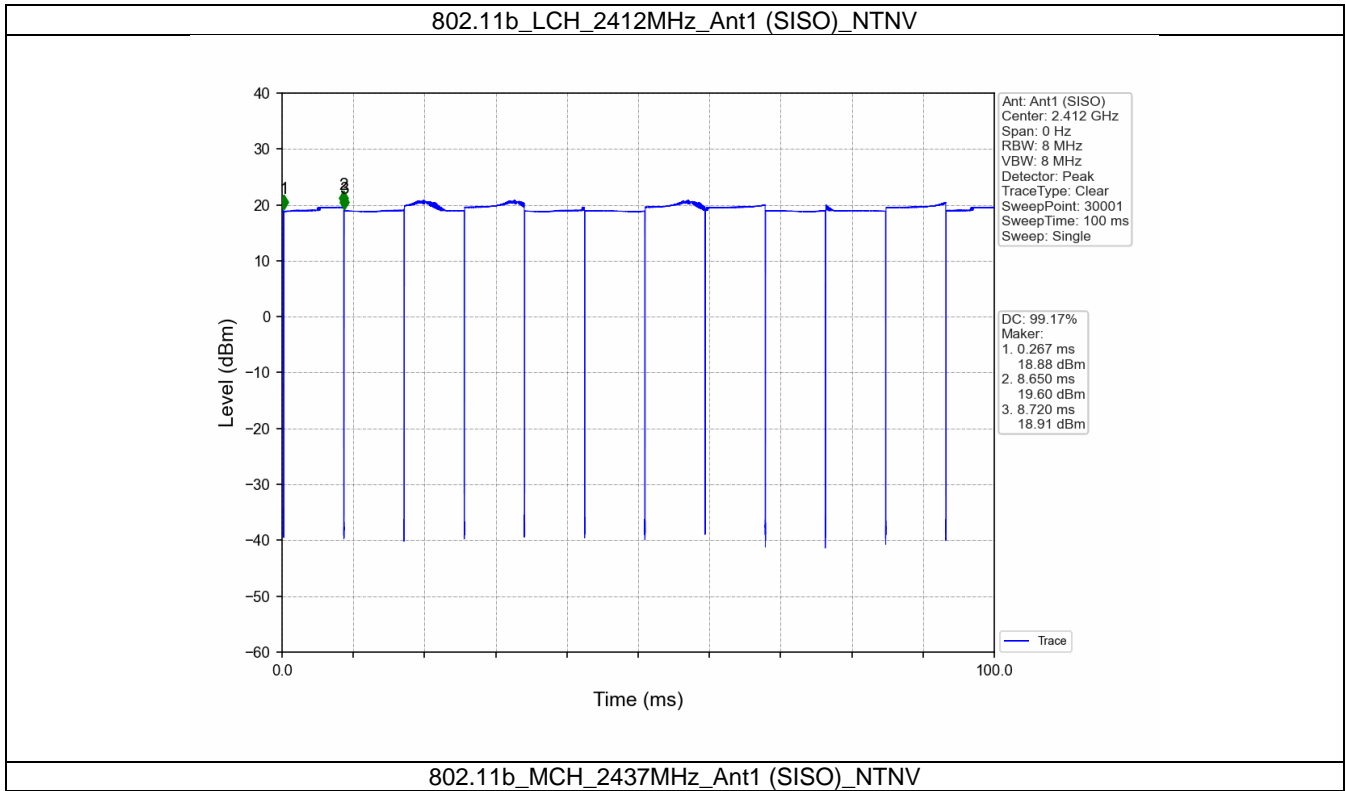
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.383	8.453	99.17	0.04	0.04
		2437	8.384	8.454	99.17	0.04	0.00
		2462	8.383	8.453	99.17	0.04	0.04
802.11g	SISO	2412	1.393	1.461	95.35	0.21	0.03
		2437	1.392	1.460	95.34	0.21	0.03
		2462	1.392	1.460	95.34	0.21	0.03
802.11n (HT20)	SISO	2412	5.083	5.152	98.66	0.06	0.04
		2437	5.083	5.152	98.66	0.06	0.04
		2462	5.083	5.152	98.66	0.06	0.00
802.11n (HT40)	SISO	2422	2.468	2.536	97.32	0.12	0.03
		2437	2.467	2.536	97.28	0.12	0.03
		2452	2.468	2.536	97.32	0.12	0.03



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1.1.2 Test Graph



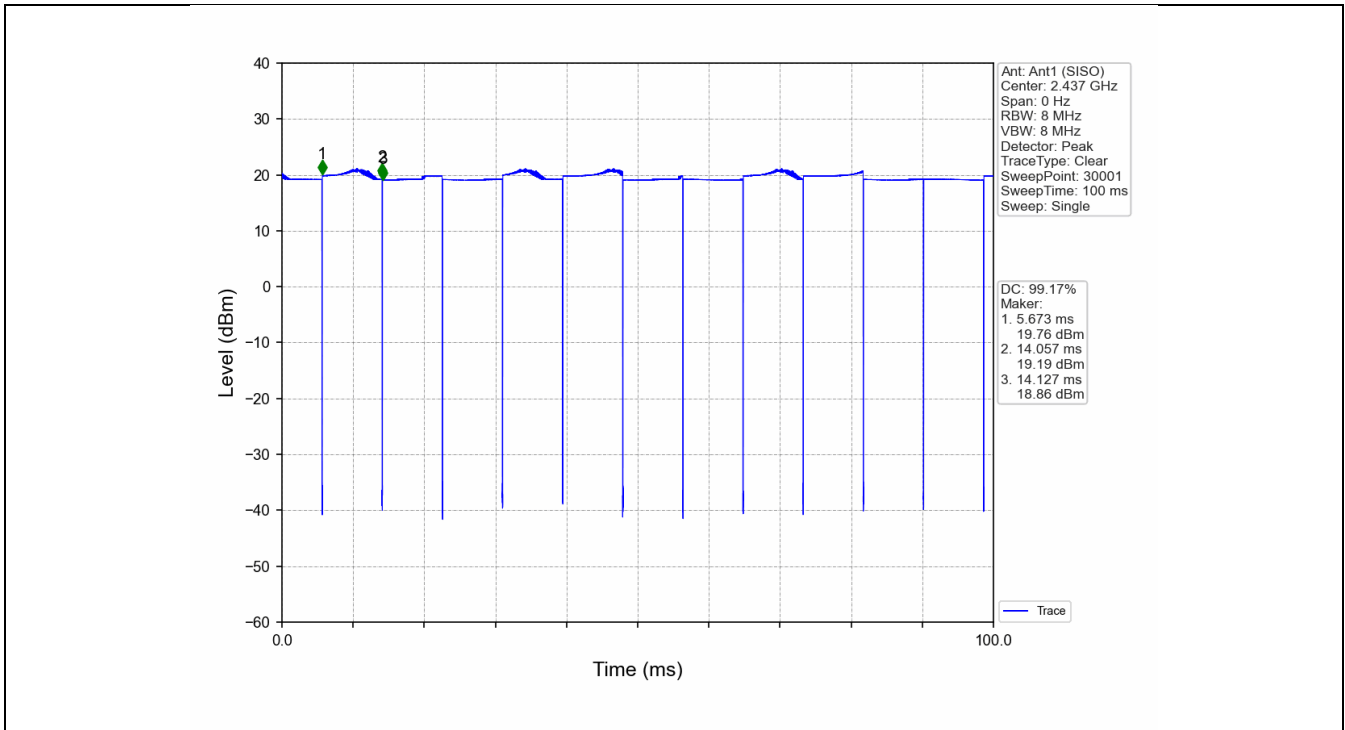
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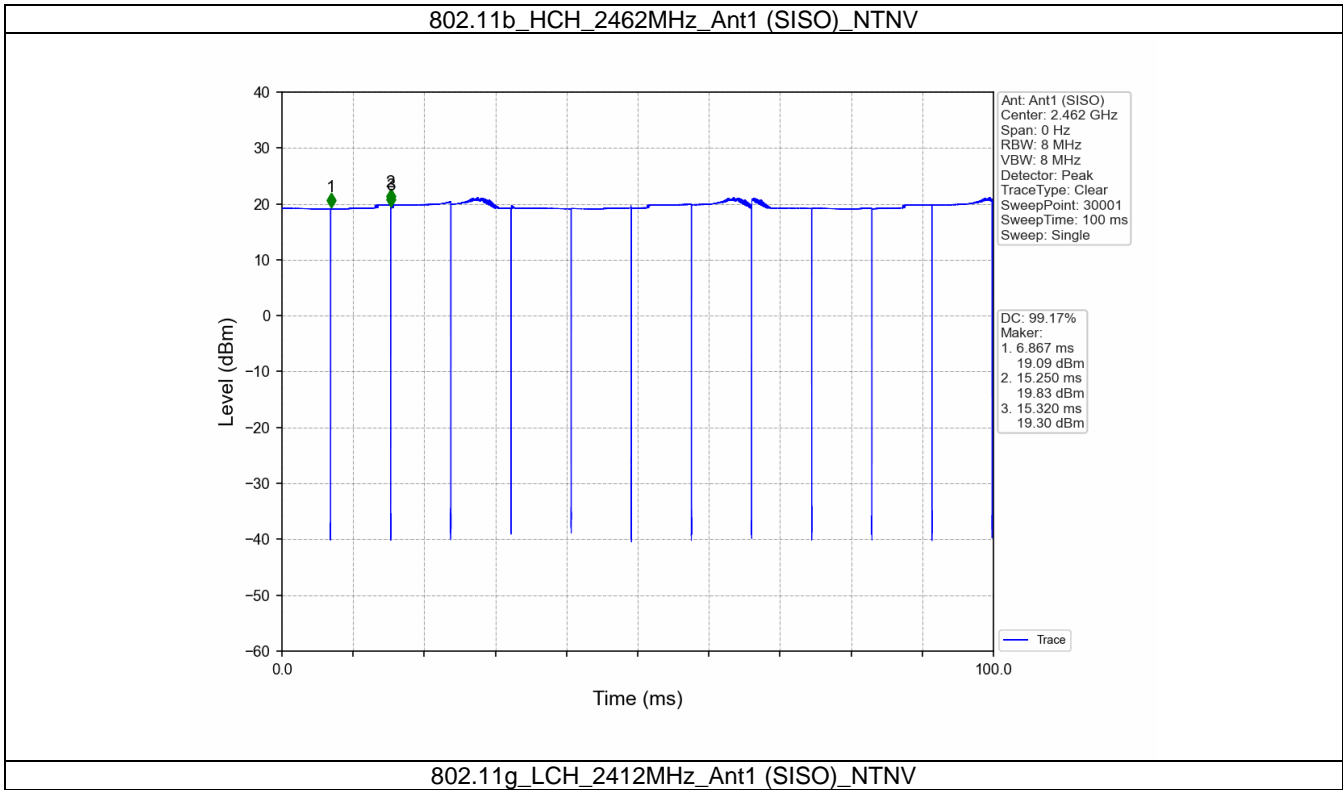
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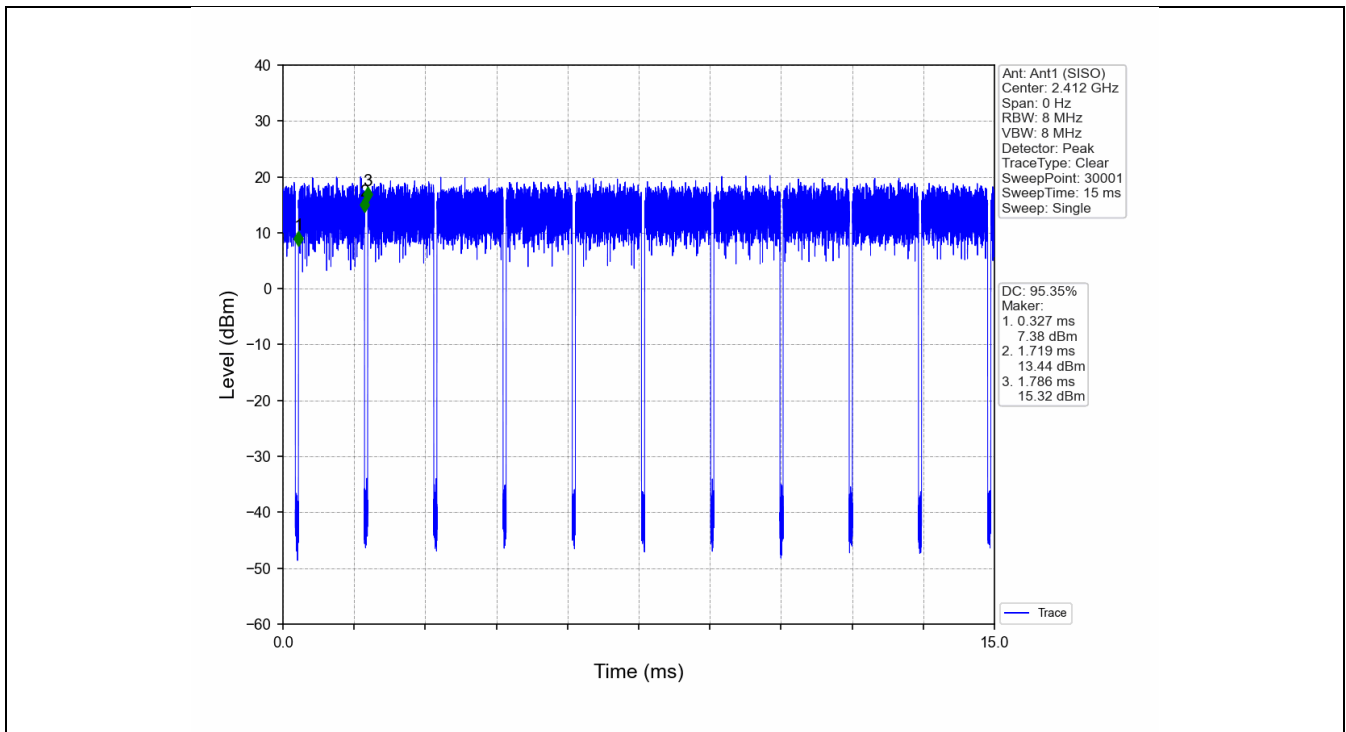
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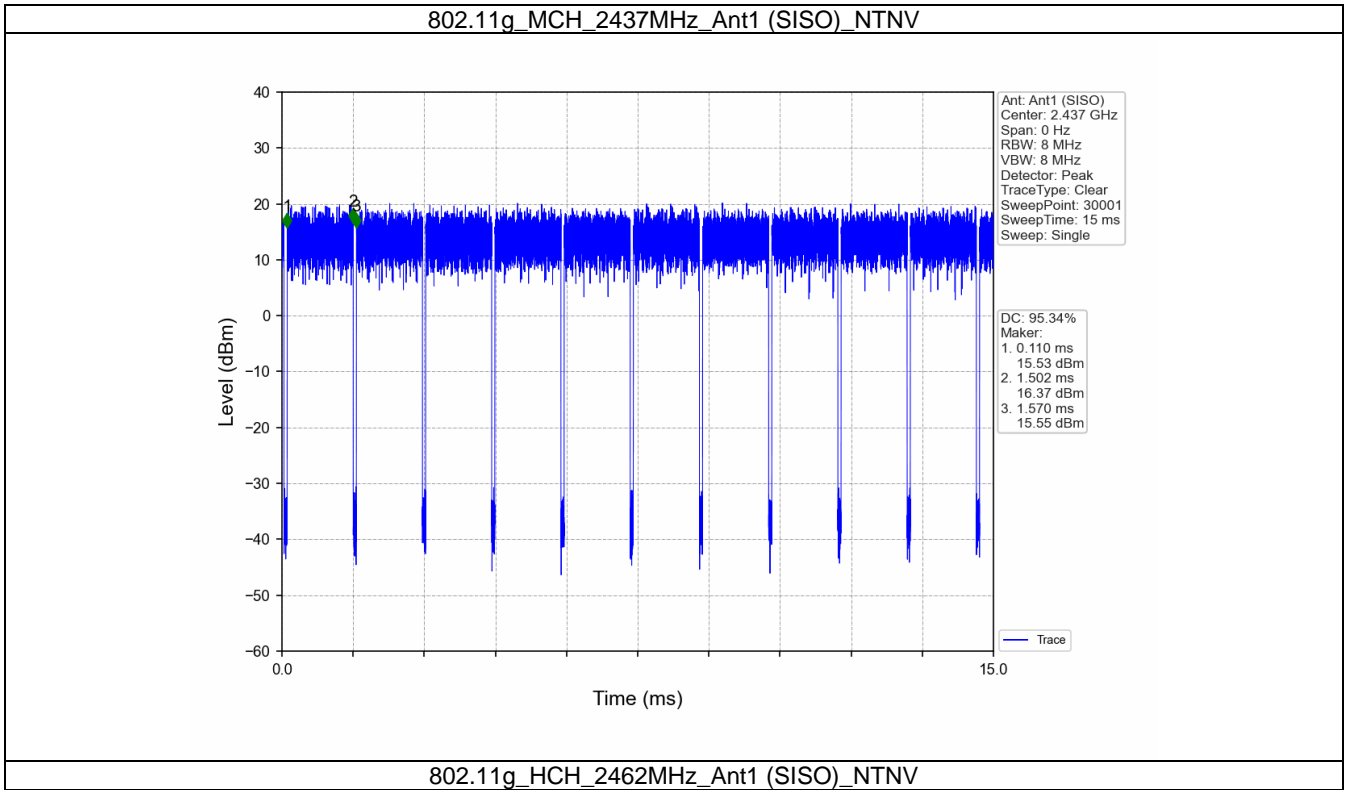
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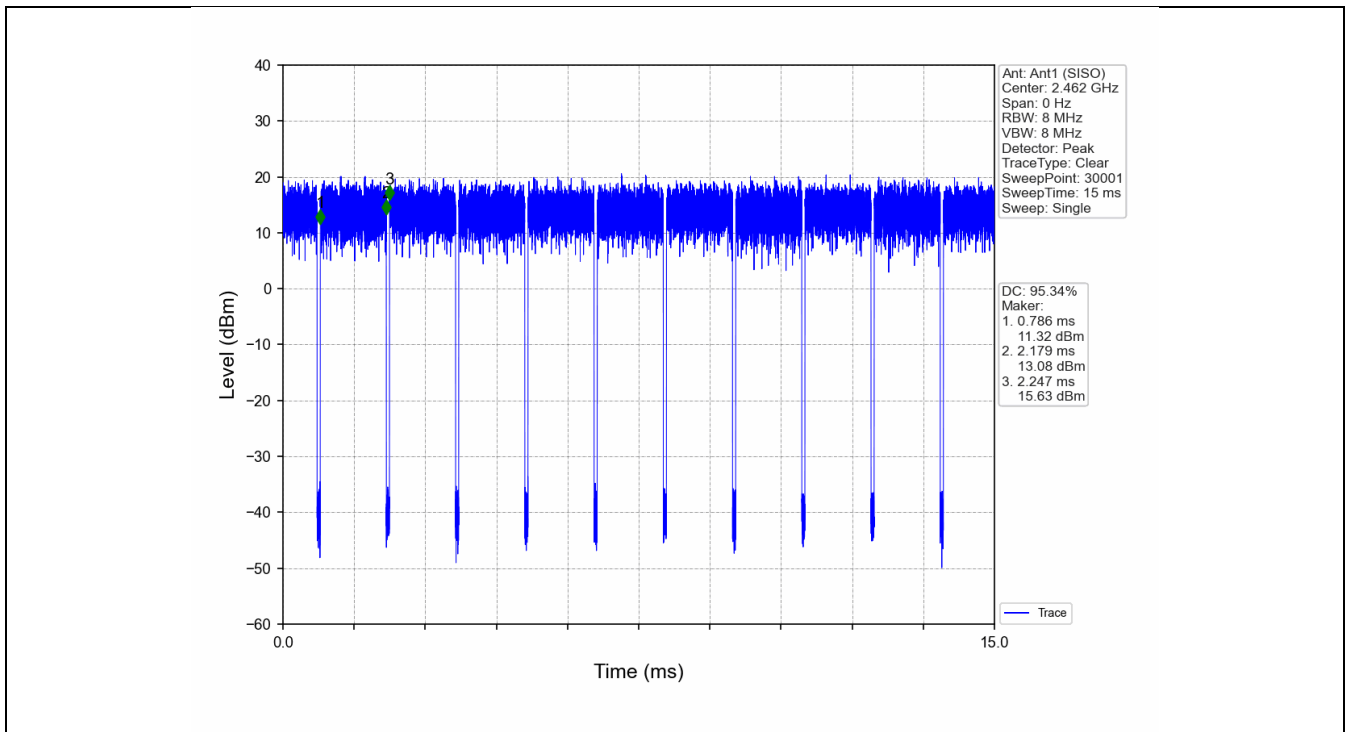
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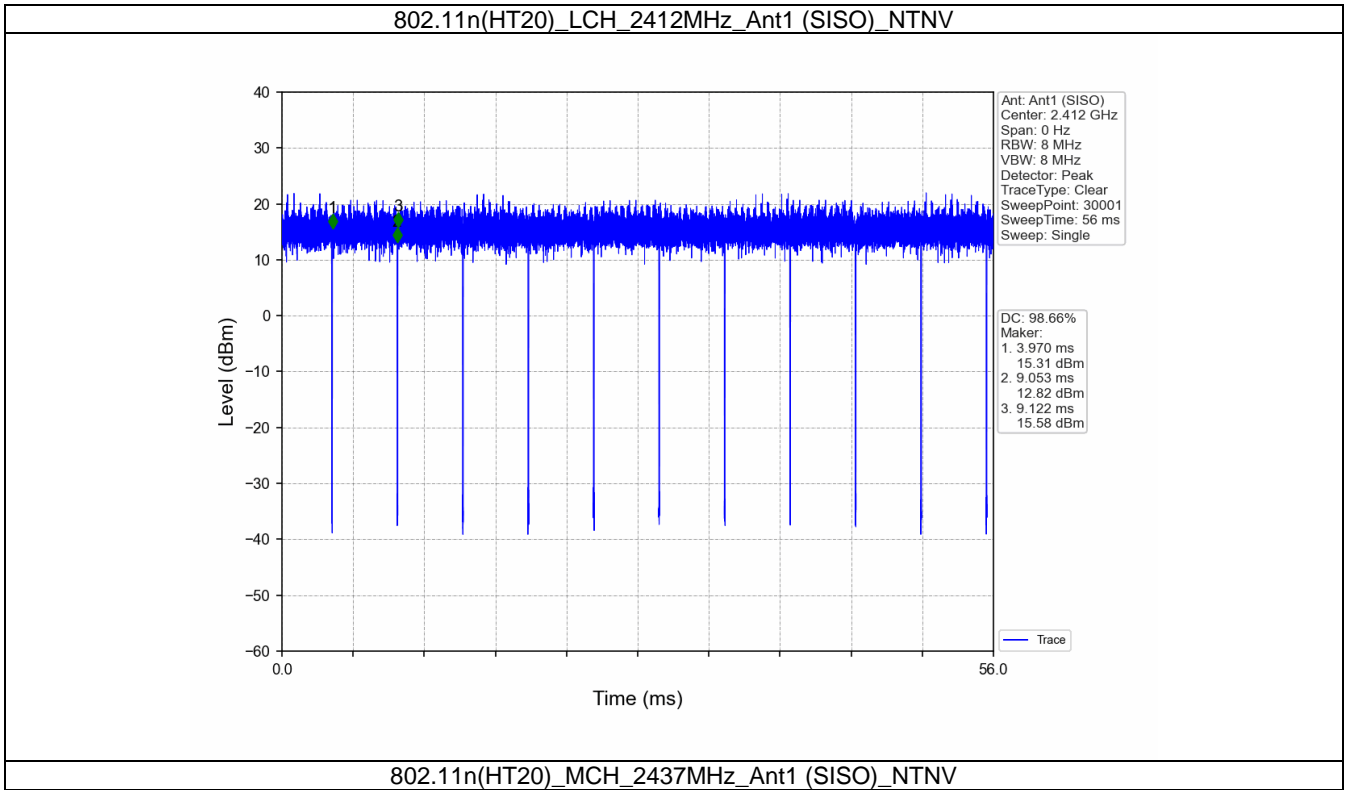
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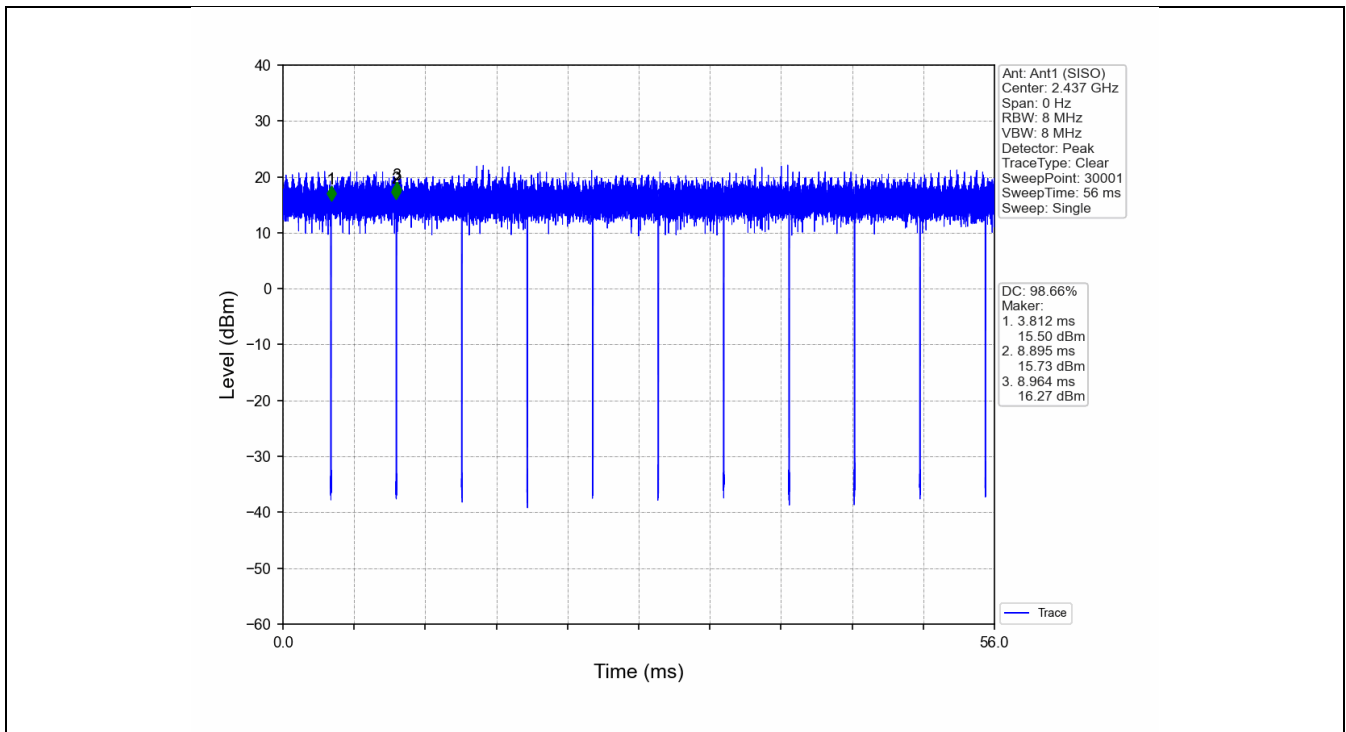
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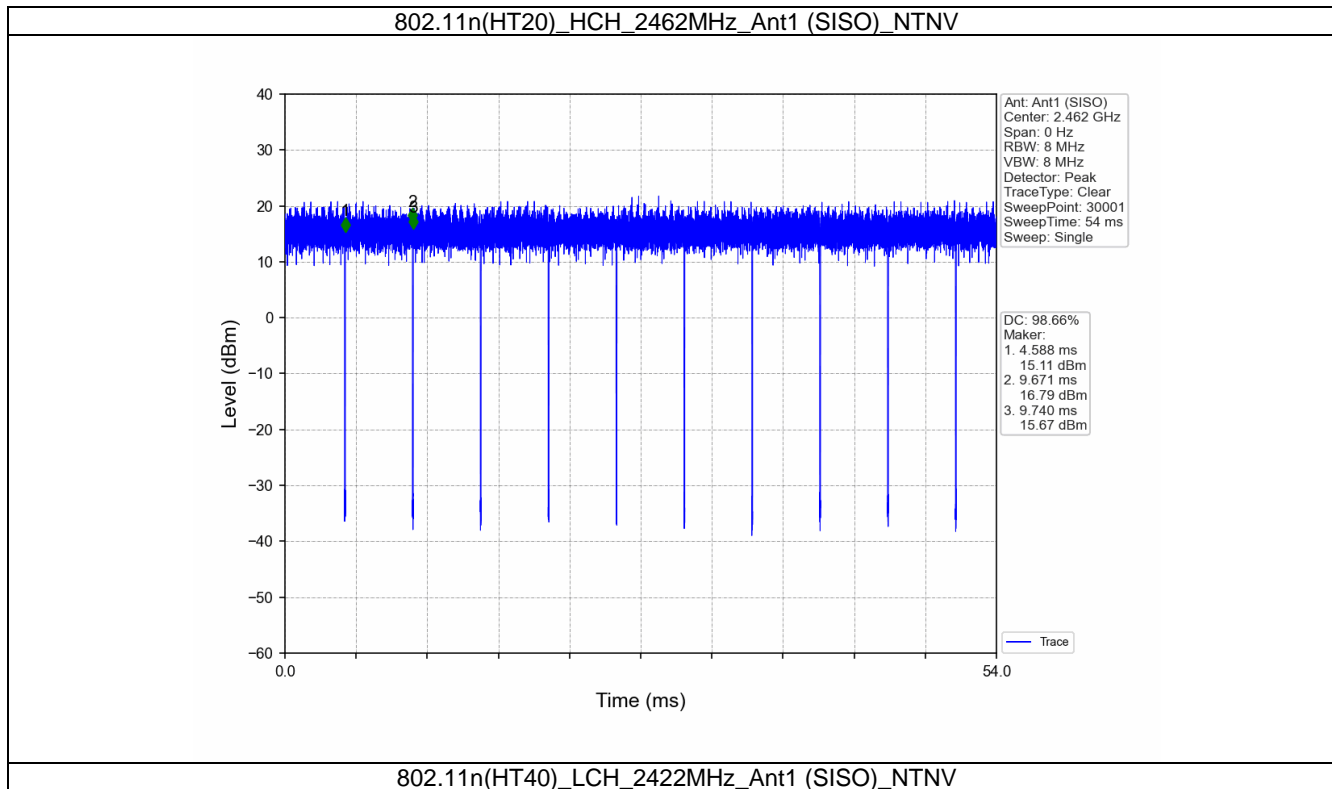
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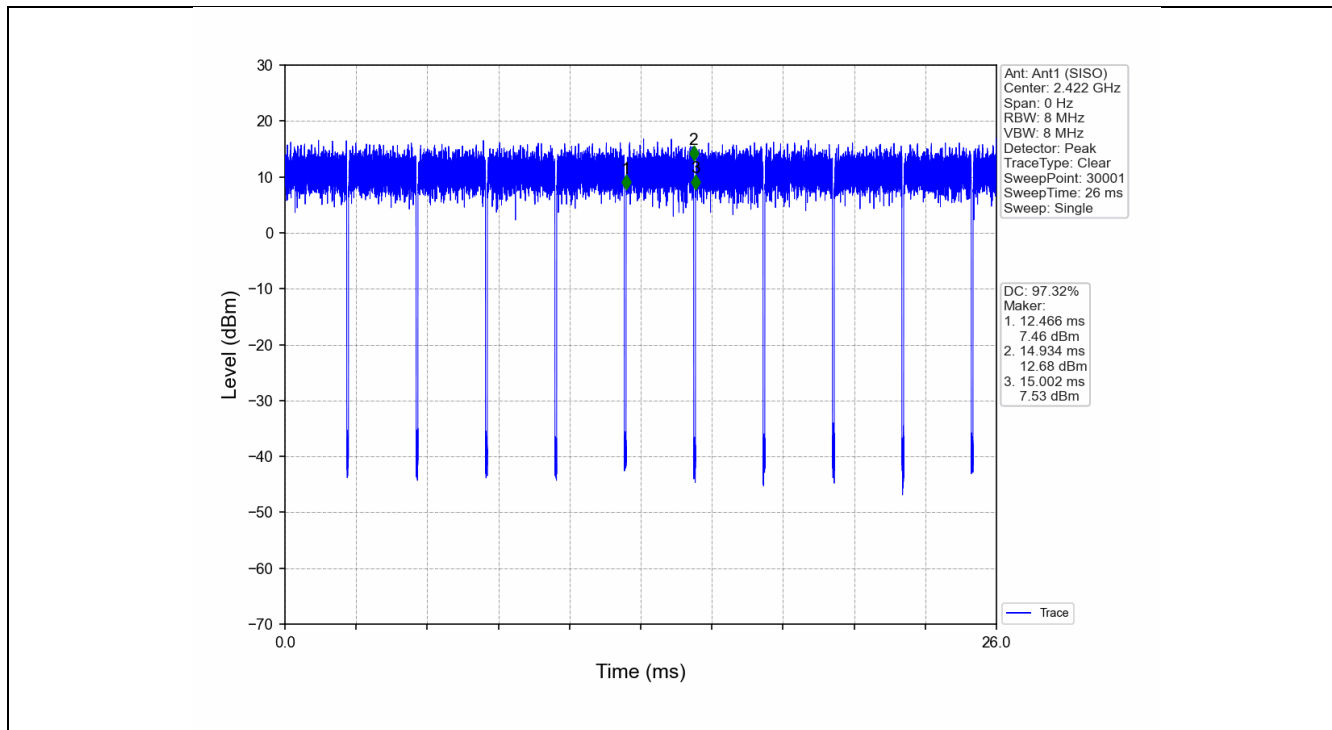
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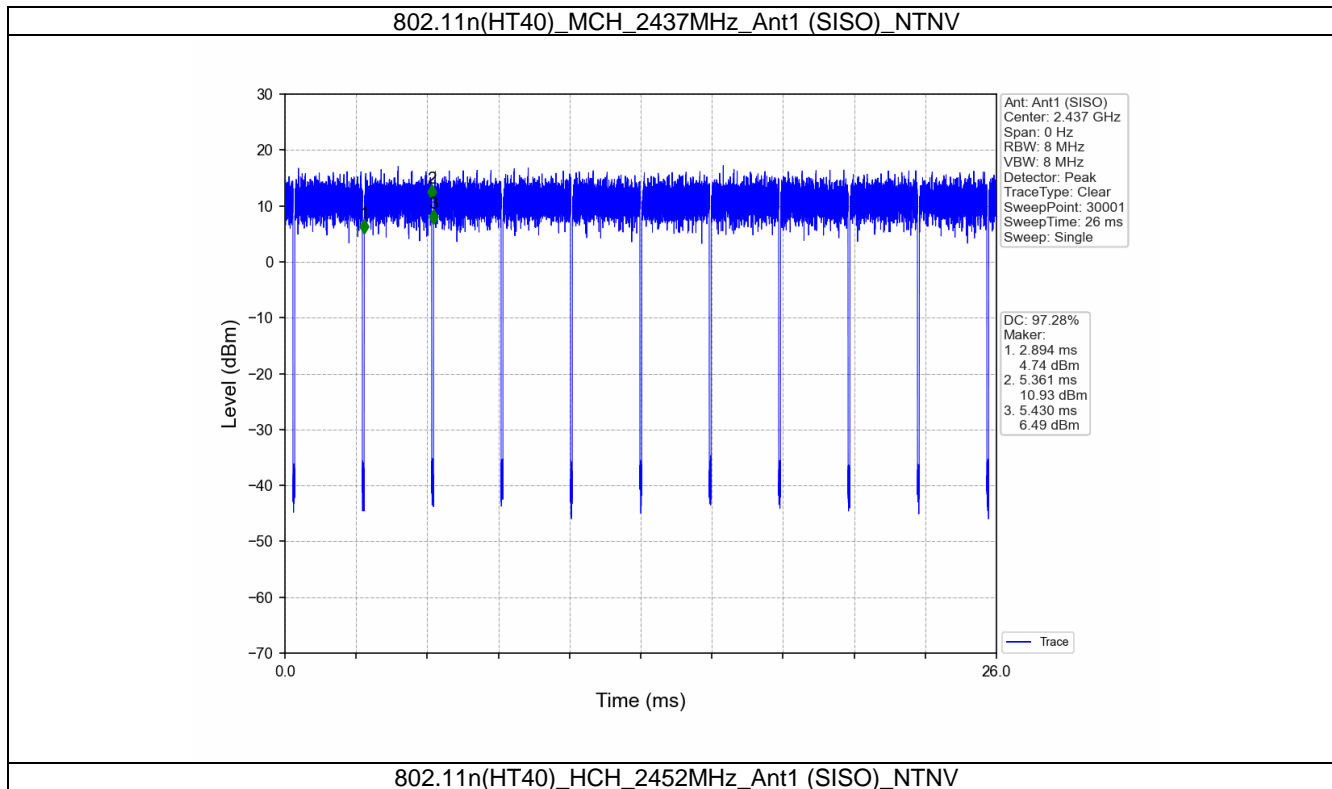
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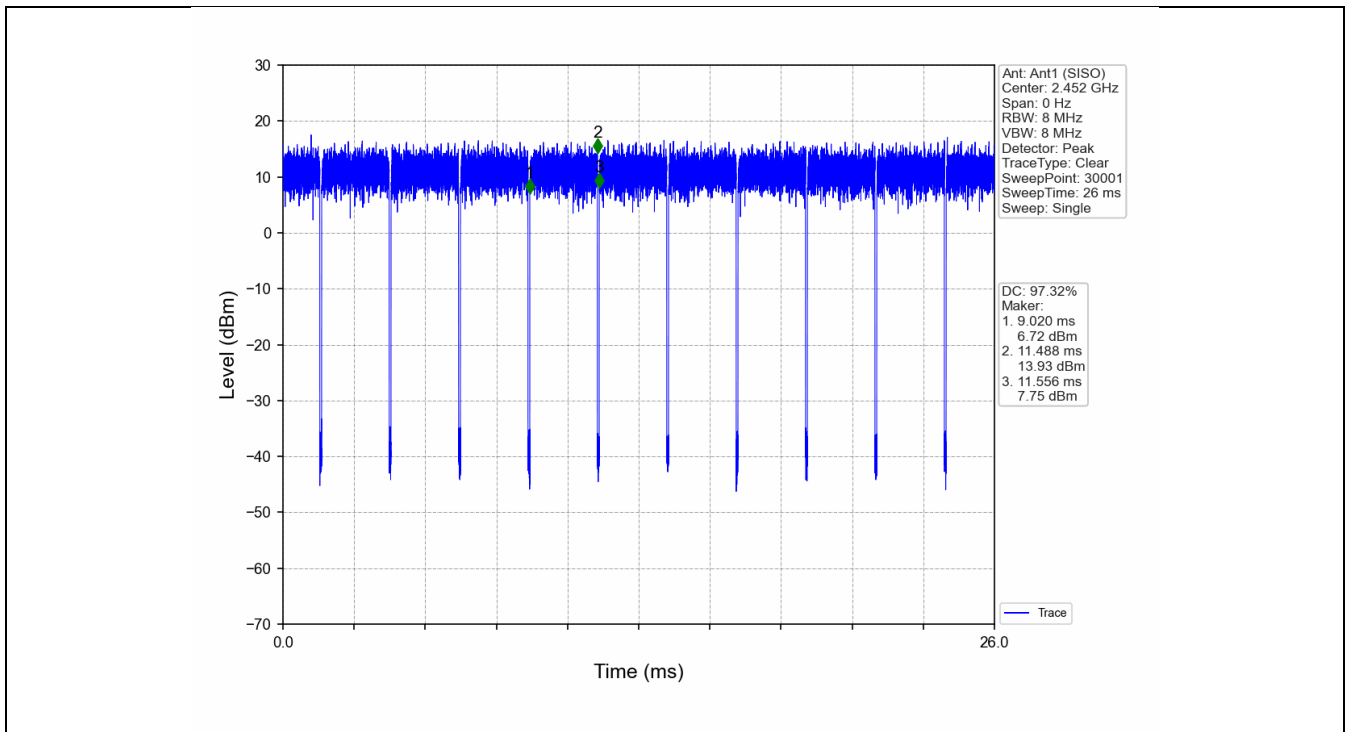
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2. Bandwidth

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	15.238	Pass
		2437	1	15.220	Pass
		2462	1	15.226	Pass
802.11g	SISO	2412	1	17.891	Pass
		2437	1	17.895	Pass
		2462	1	17.900	Pass
802.11n (HT20)	SISO	2412	1	18.549	Pass
		2437	1	18.564	Pass
		2462	1	18.565	Pass
802.11n (HT40)	SISO	2422	1	37.091	Pass
		2437	1	37.087	Pass
		2452	1	37.100	Pass

2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



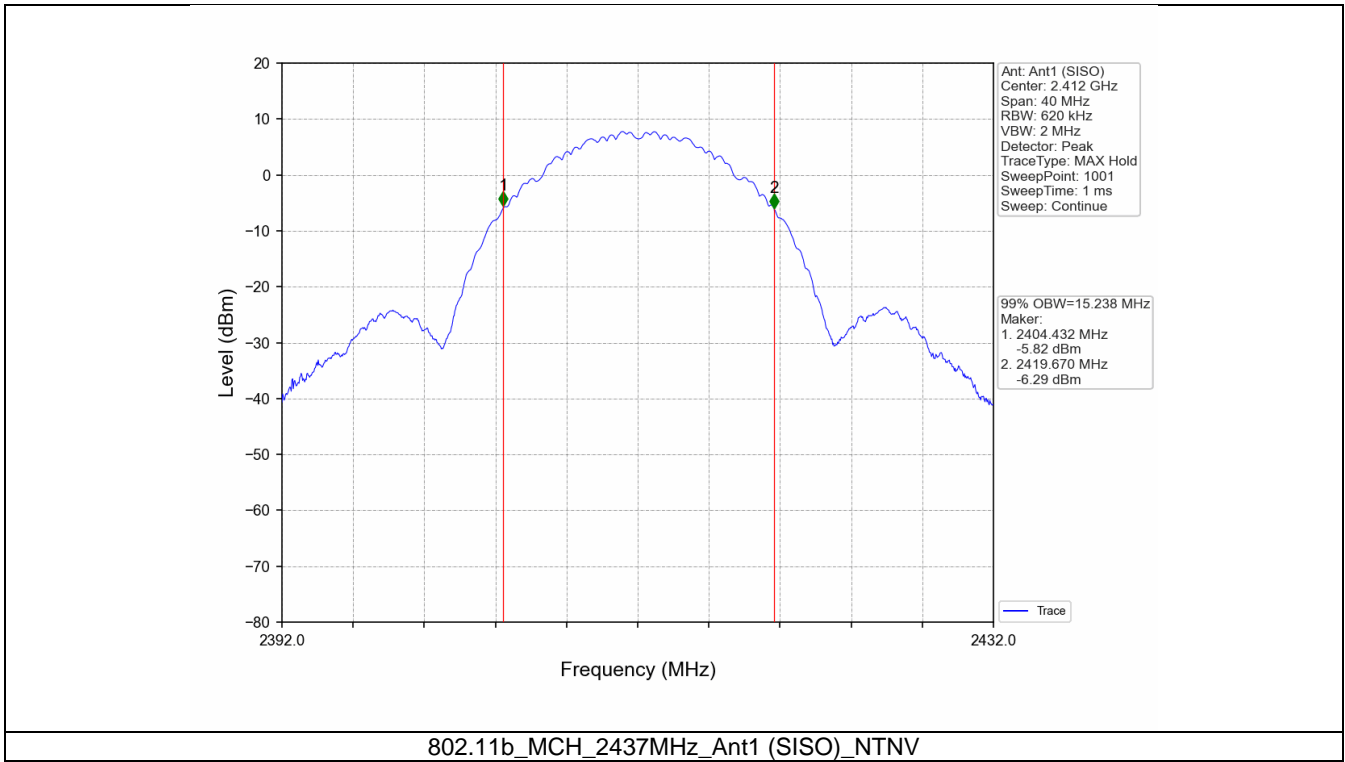
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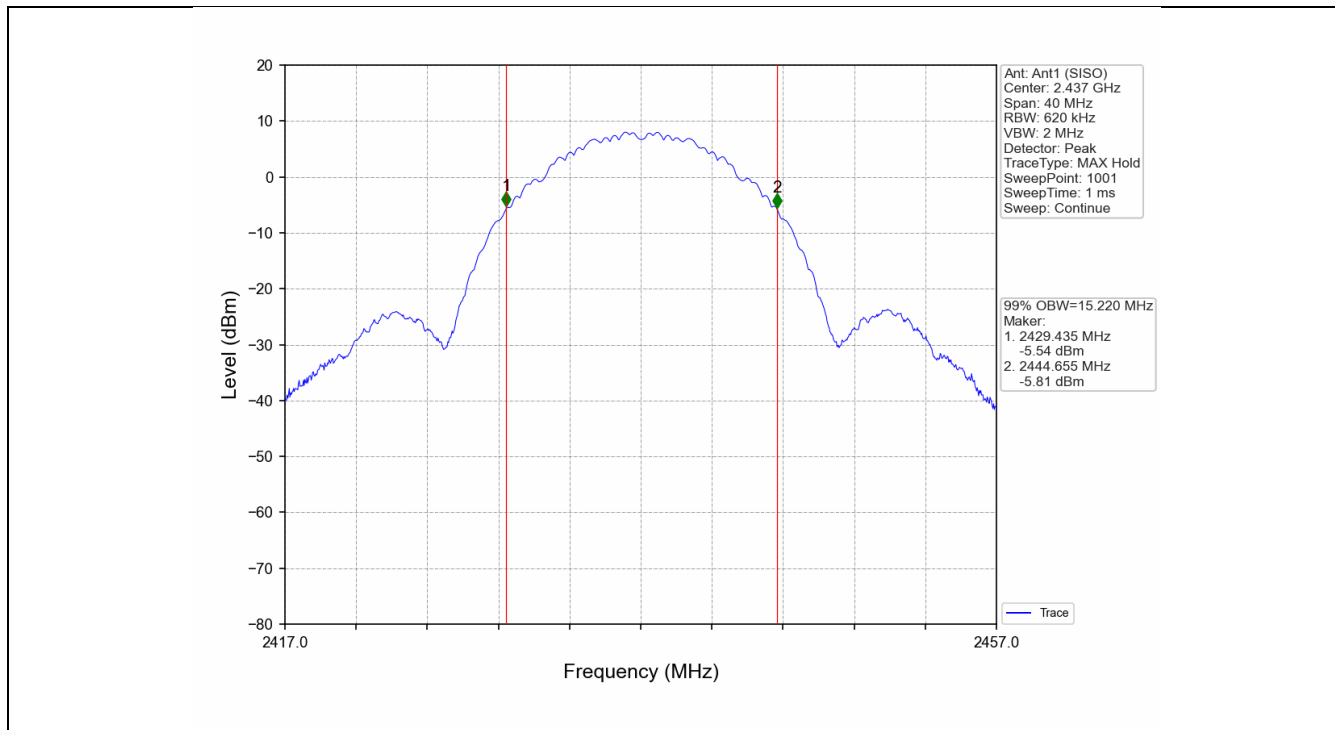
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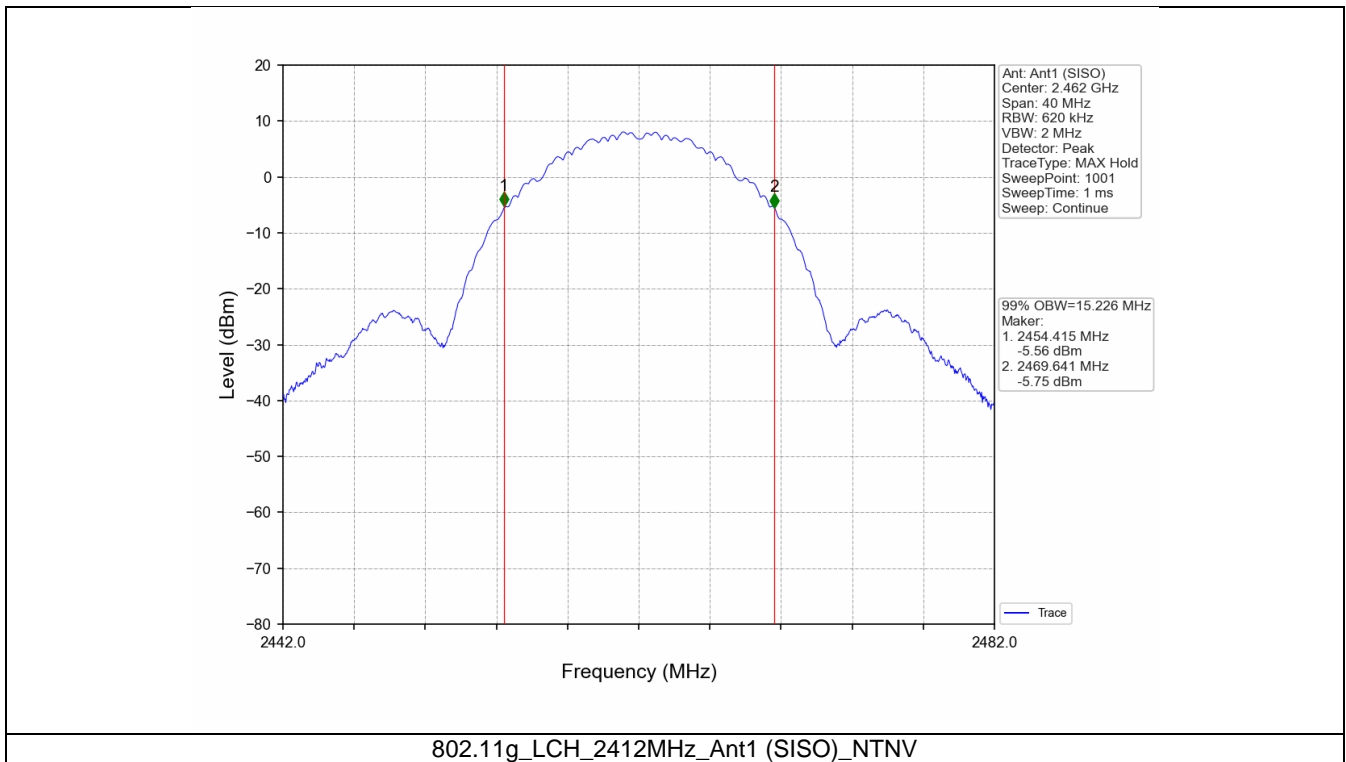
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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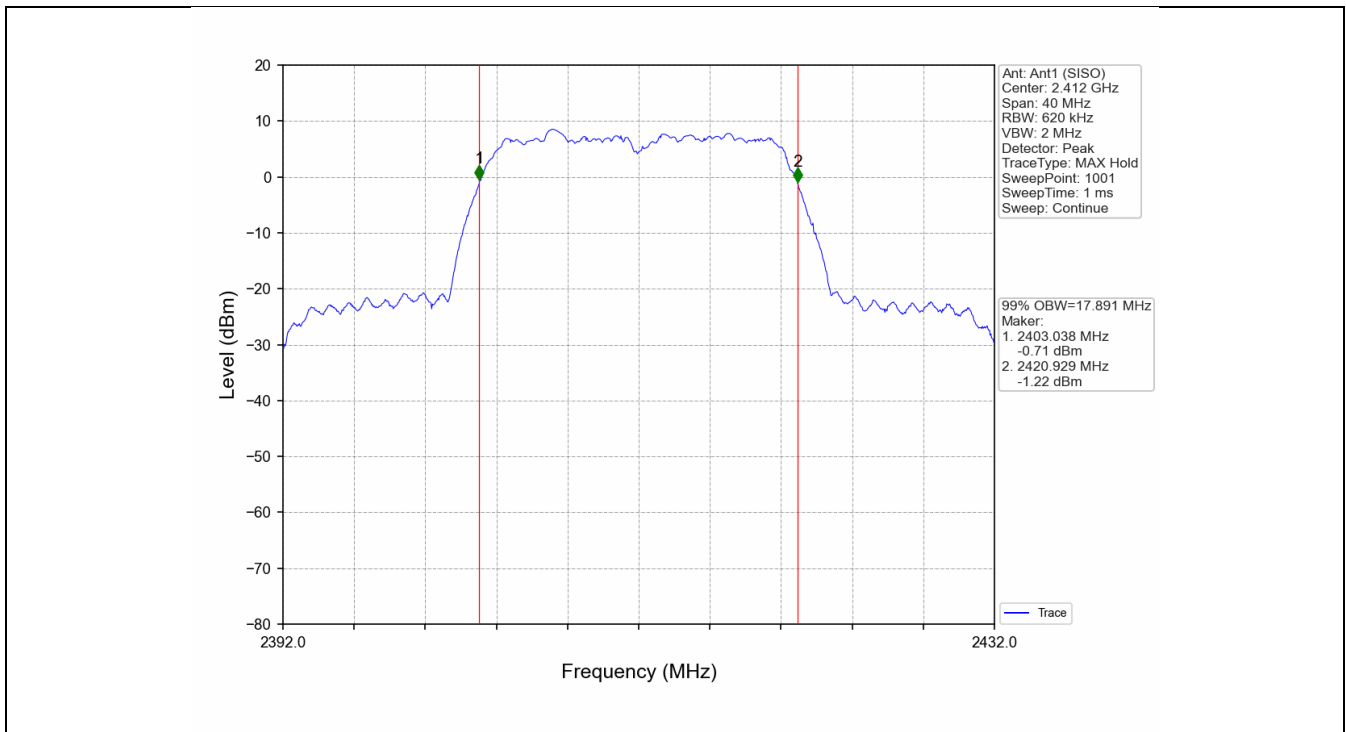
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



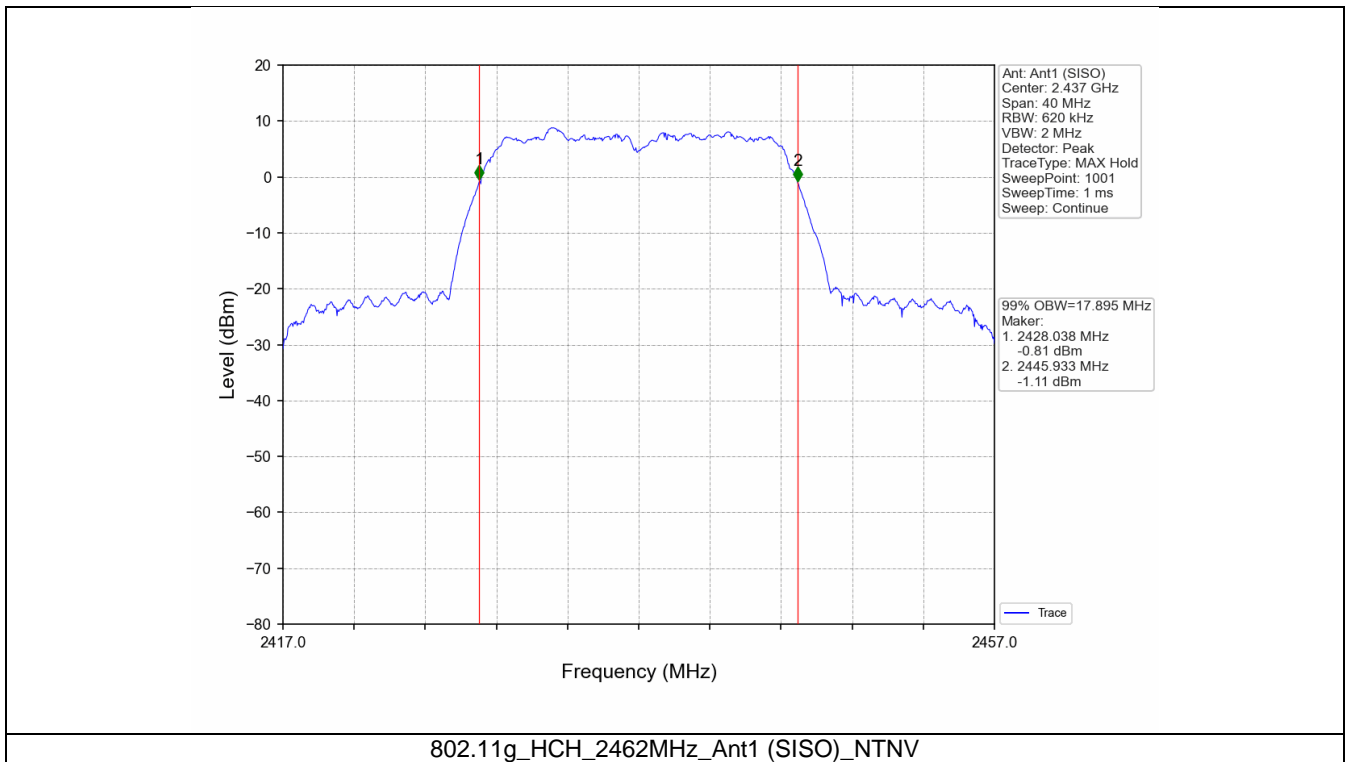
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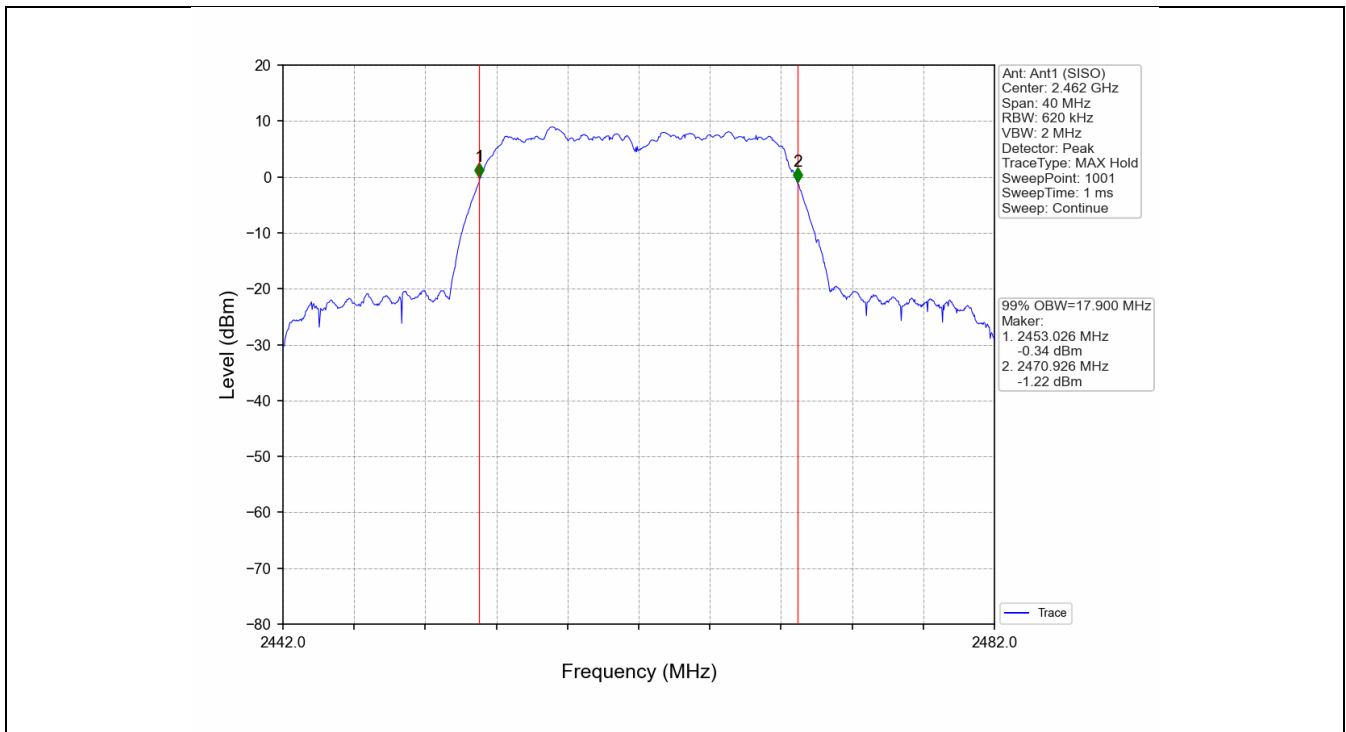
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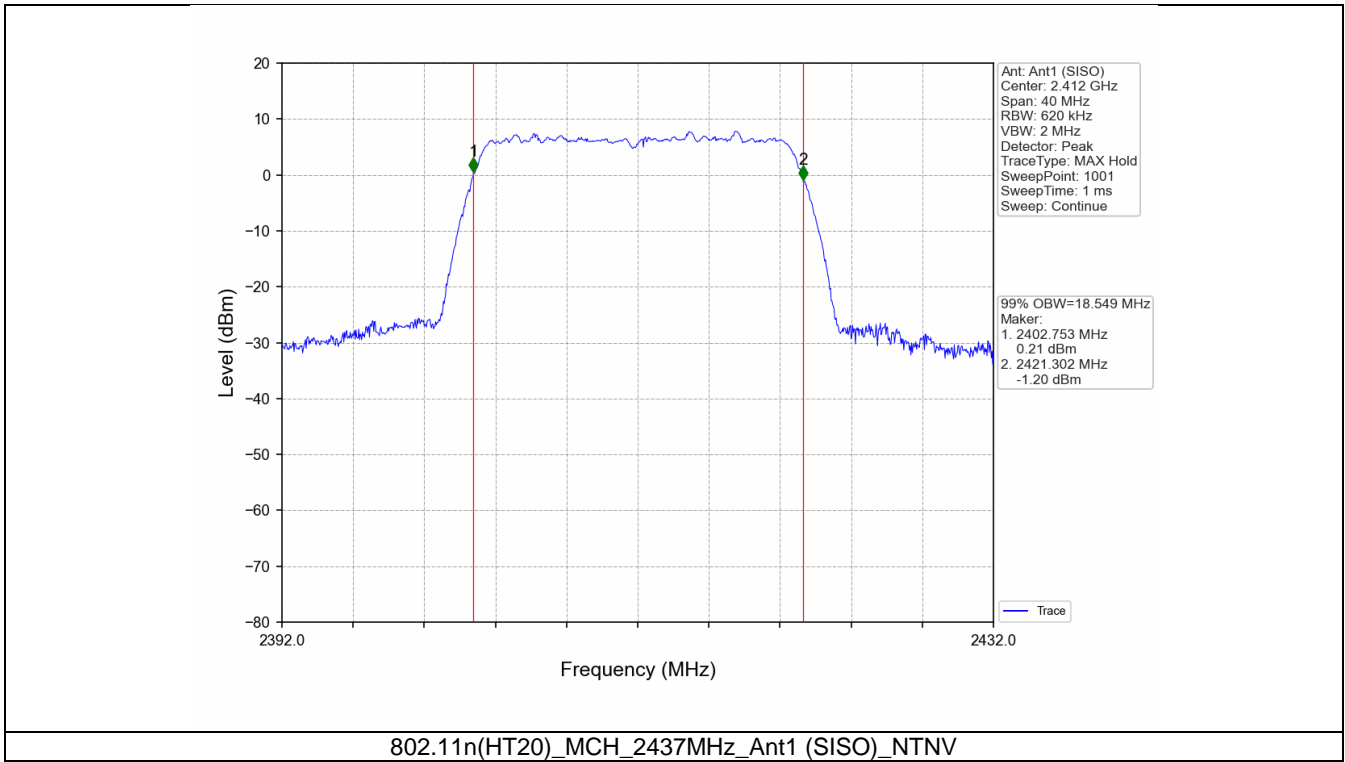


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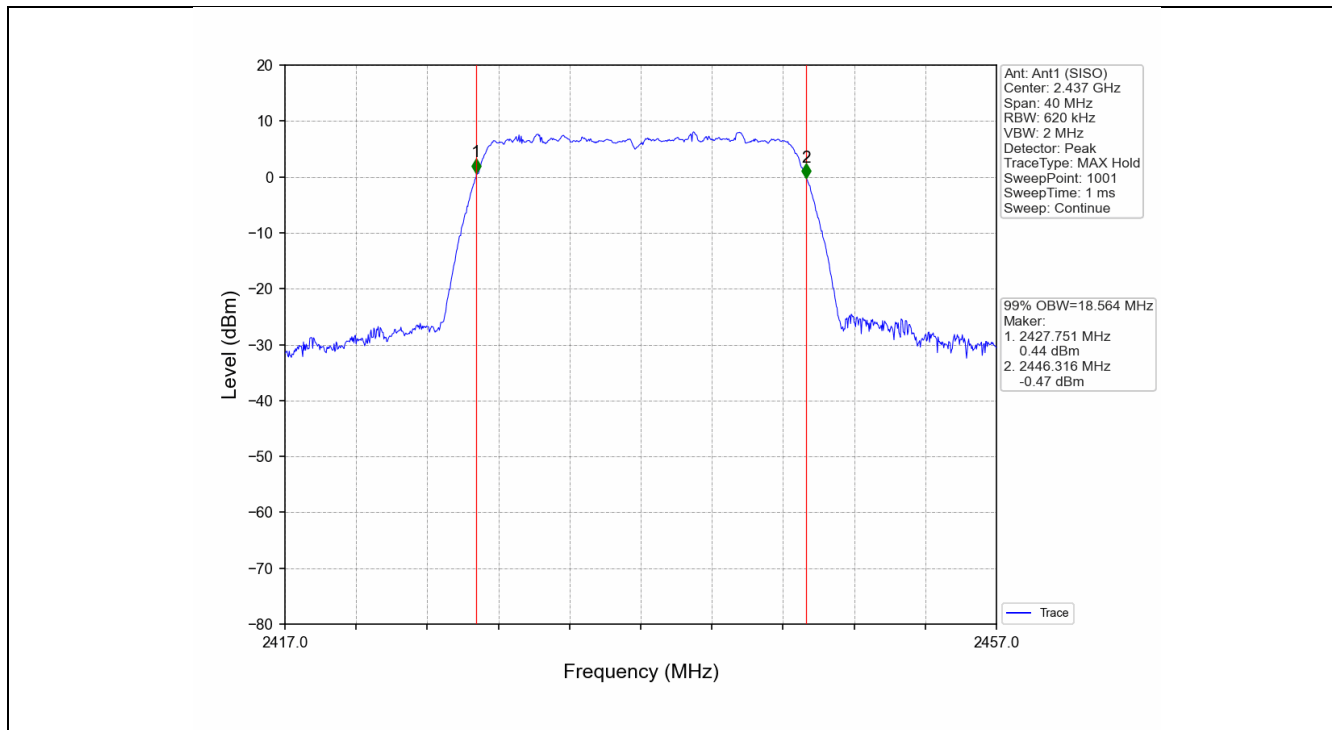
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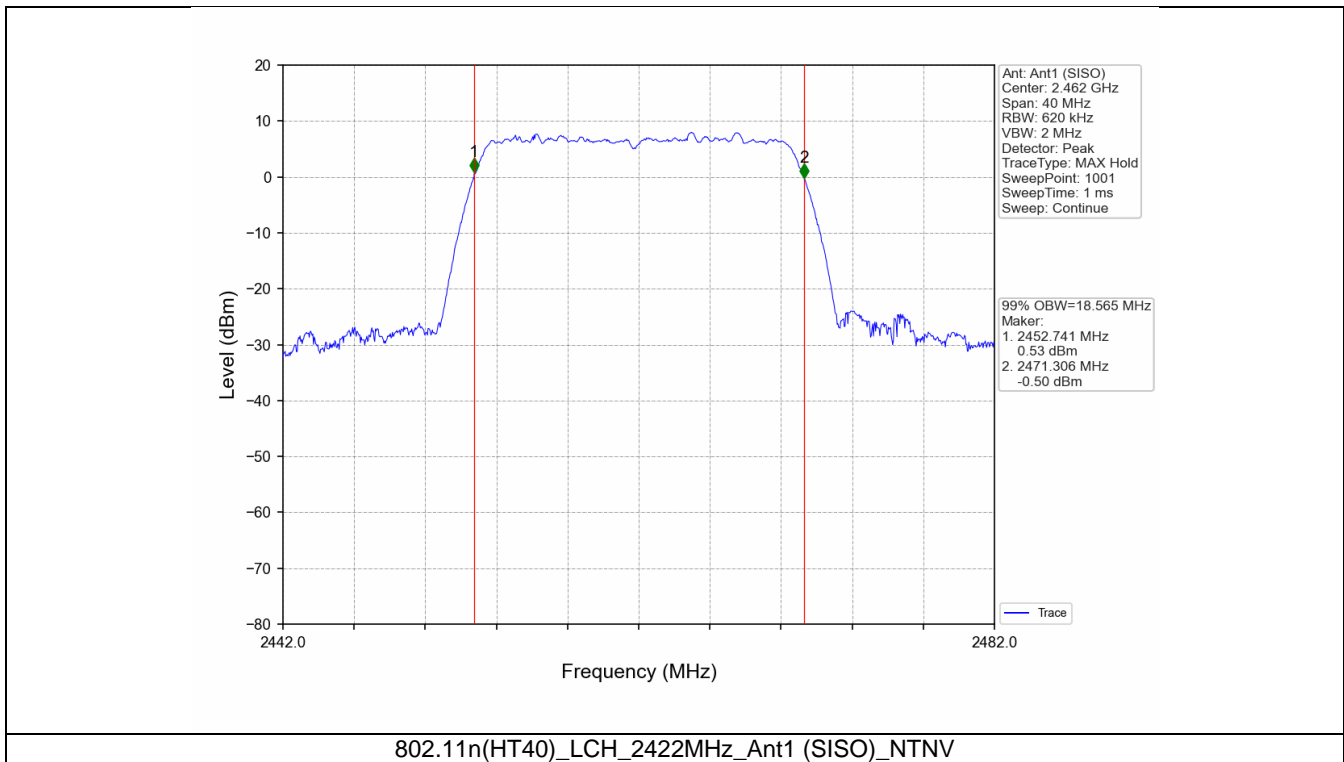


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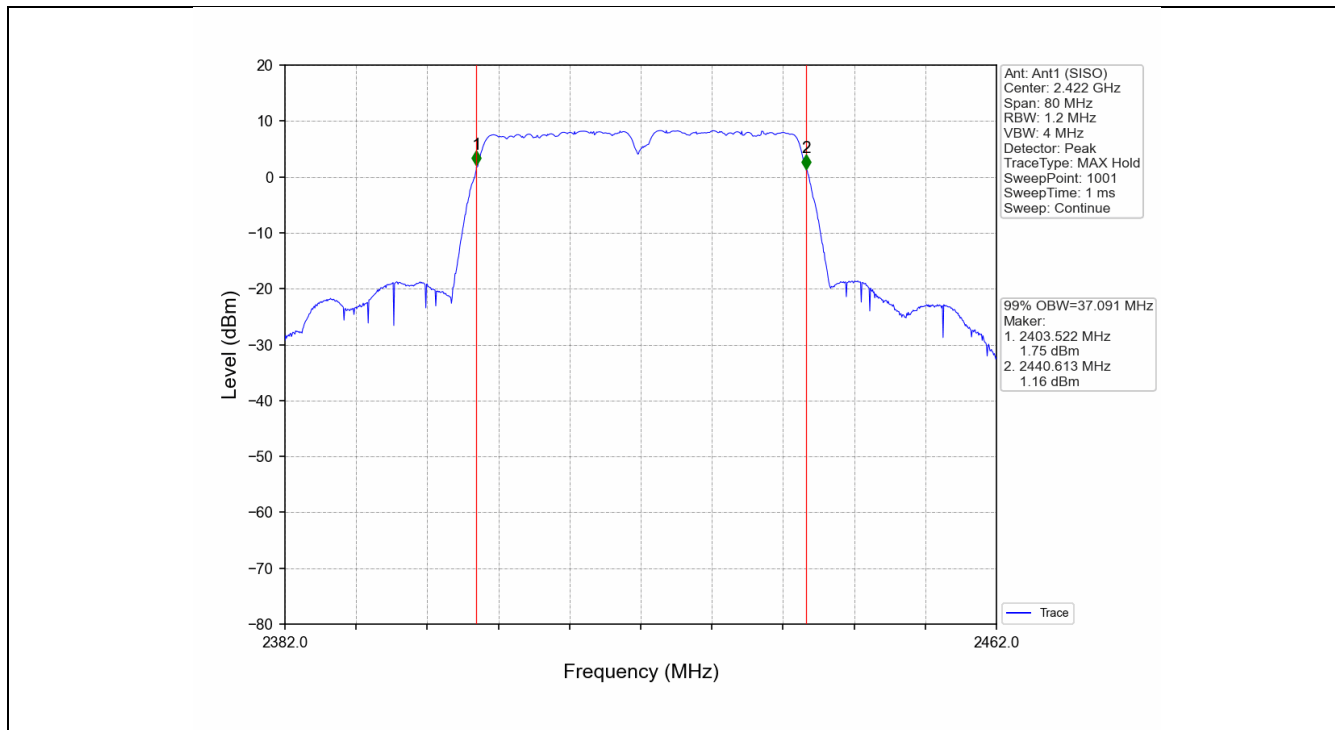
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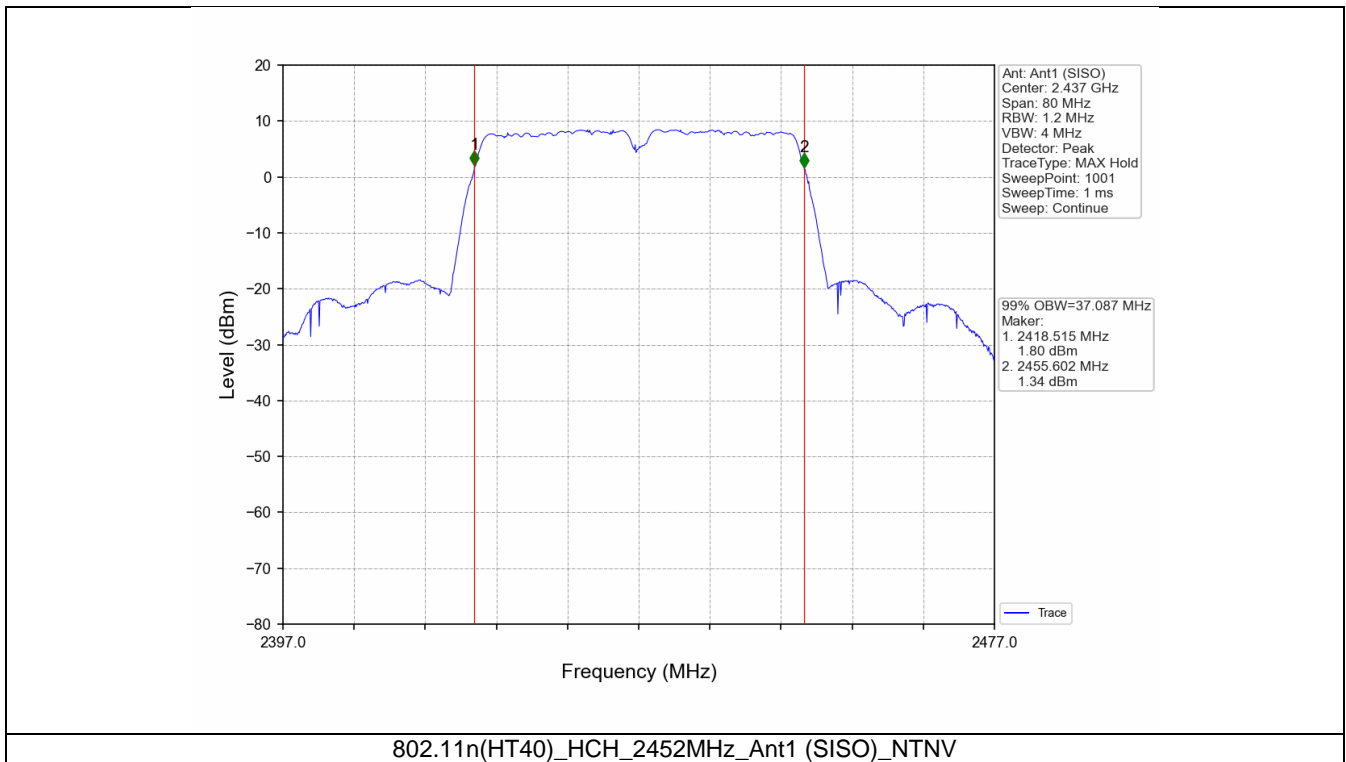


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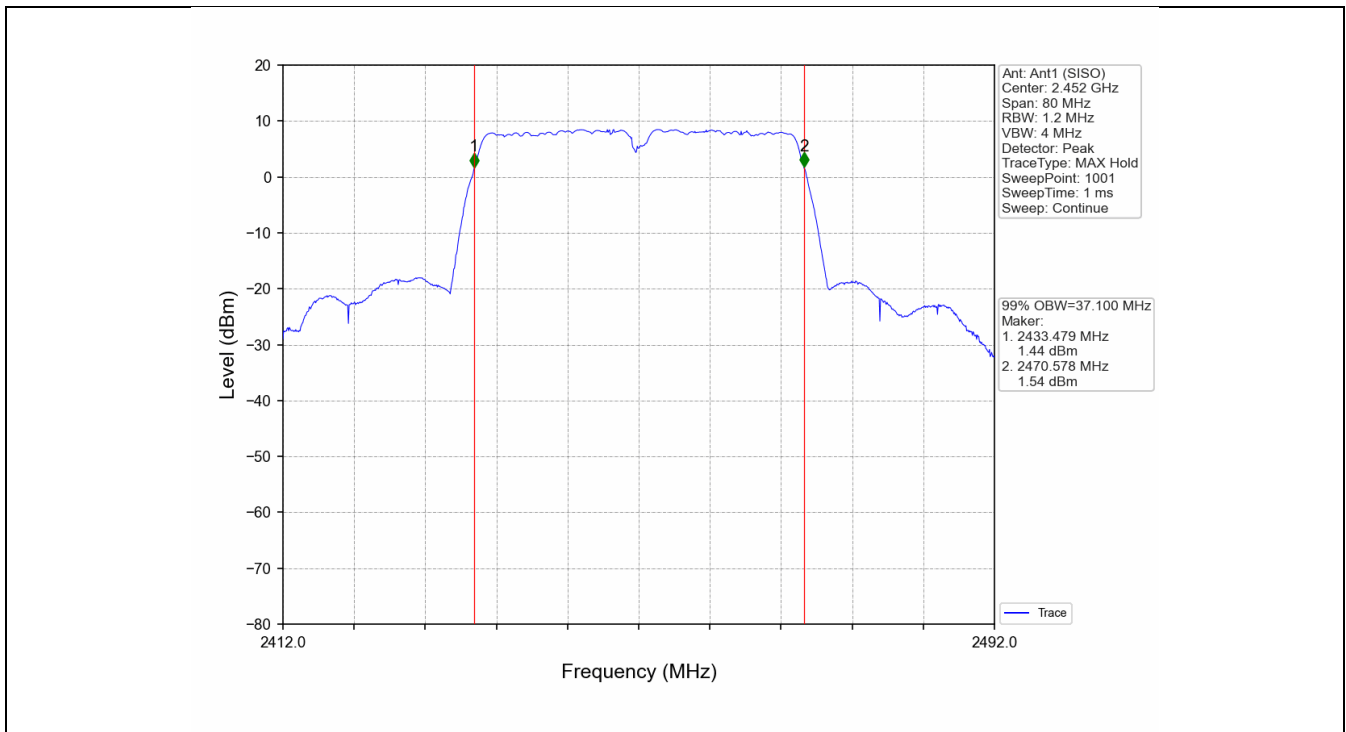
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.094	>=0.5	Pass
		2437	1	10.093	>=0.5	Pass
		2462	1	10.091	>=0.5	Pass
802.11g	SISO	2412	1	16.393	>=0.5	Pass
		2437	1	16.393	>=0.5	Pass
		2462	1	16.393	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.642	>=0.5	Pass
		2437	1	17.651	>=0.5	Pass
		2462	1	17.648	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.351	>=0.5	Pass
		2437	1	36.344	>=0.5	Pass
		2452	1	36.348	>=0.5	Pass

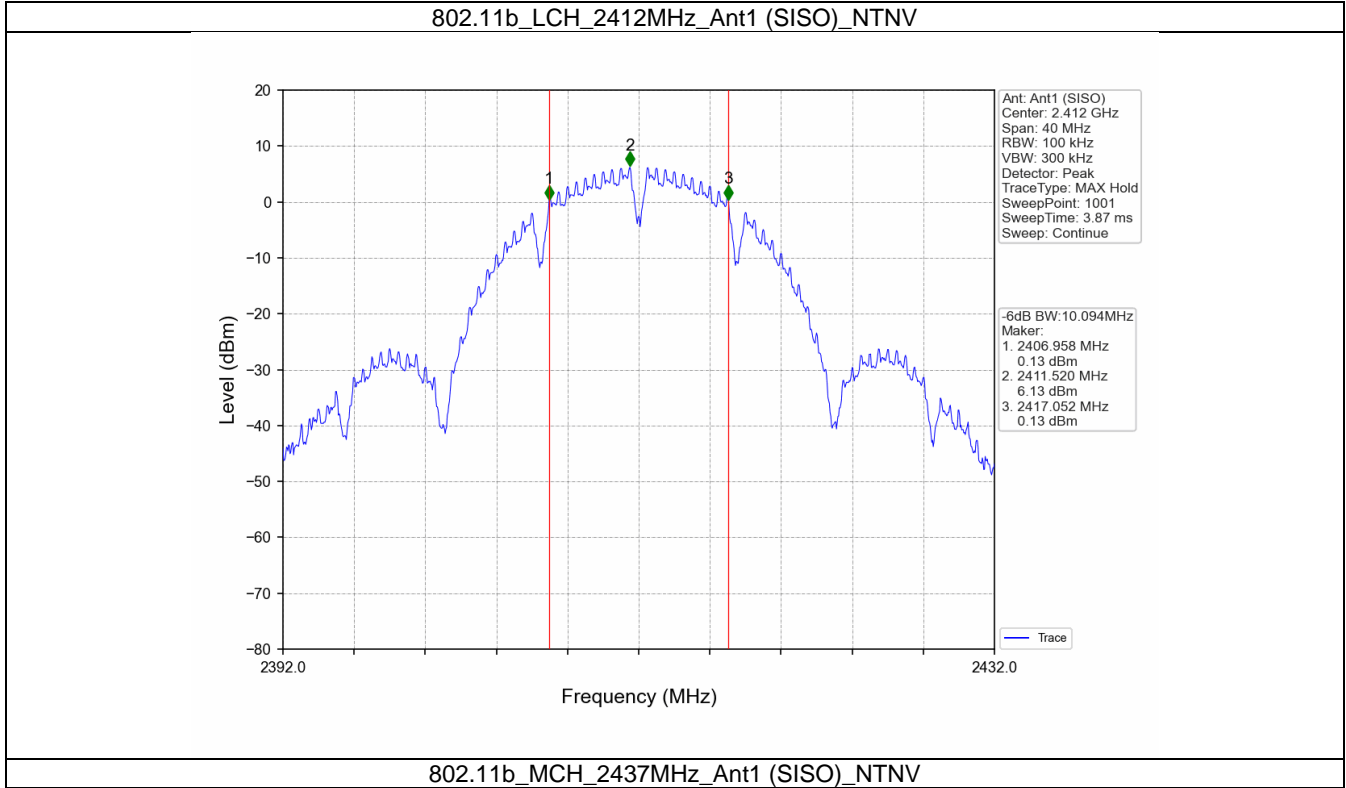
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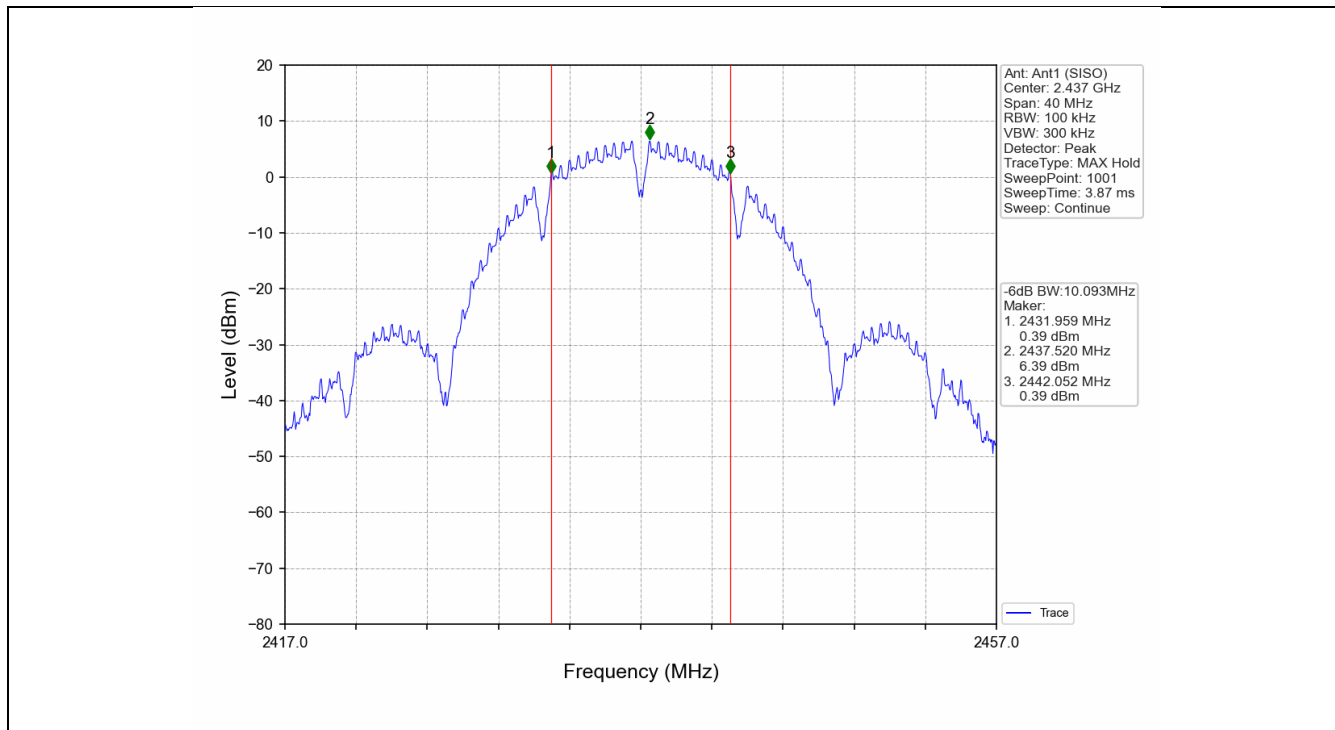
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2.2.2 Test Graph



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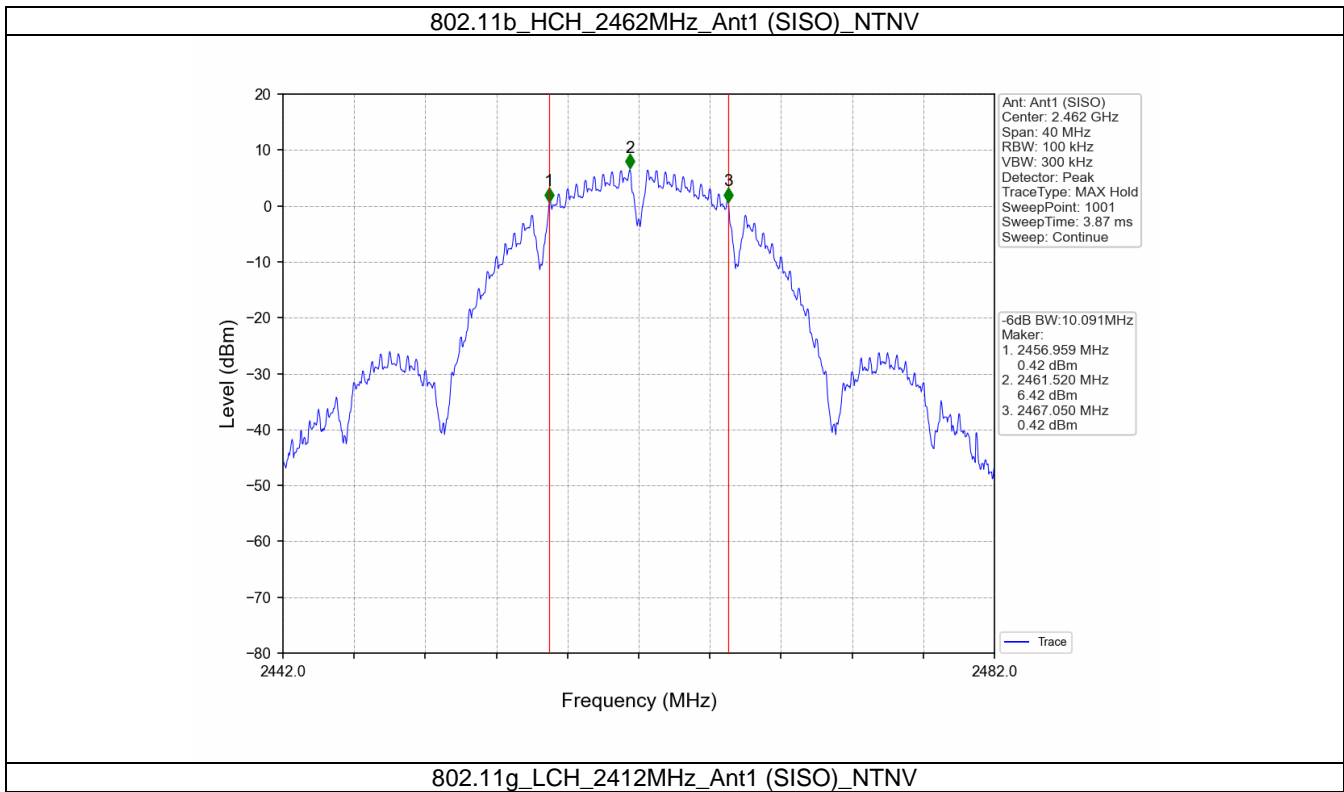
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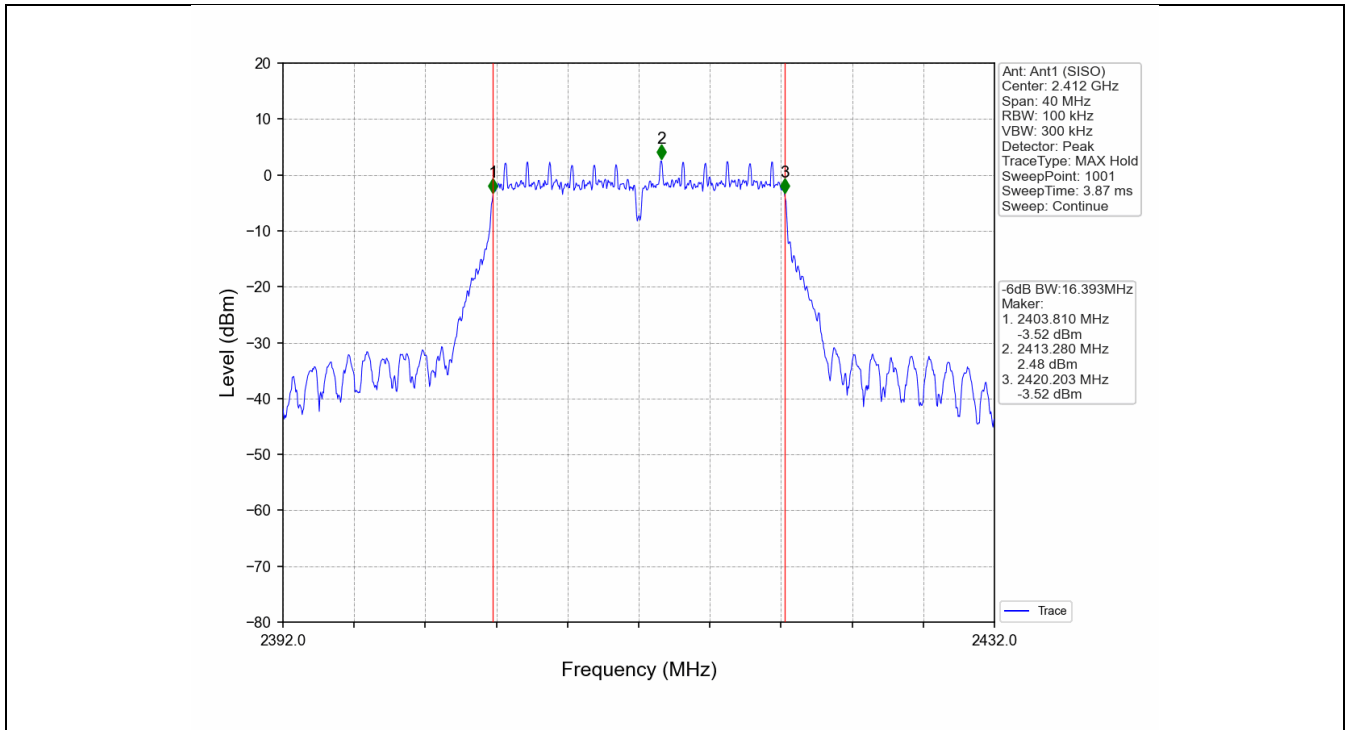
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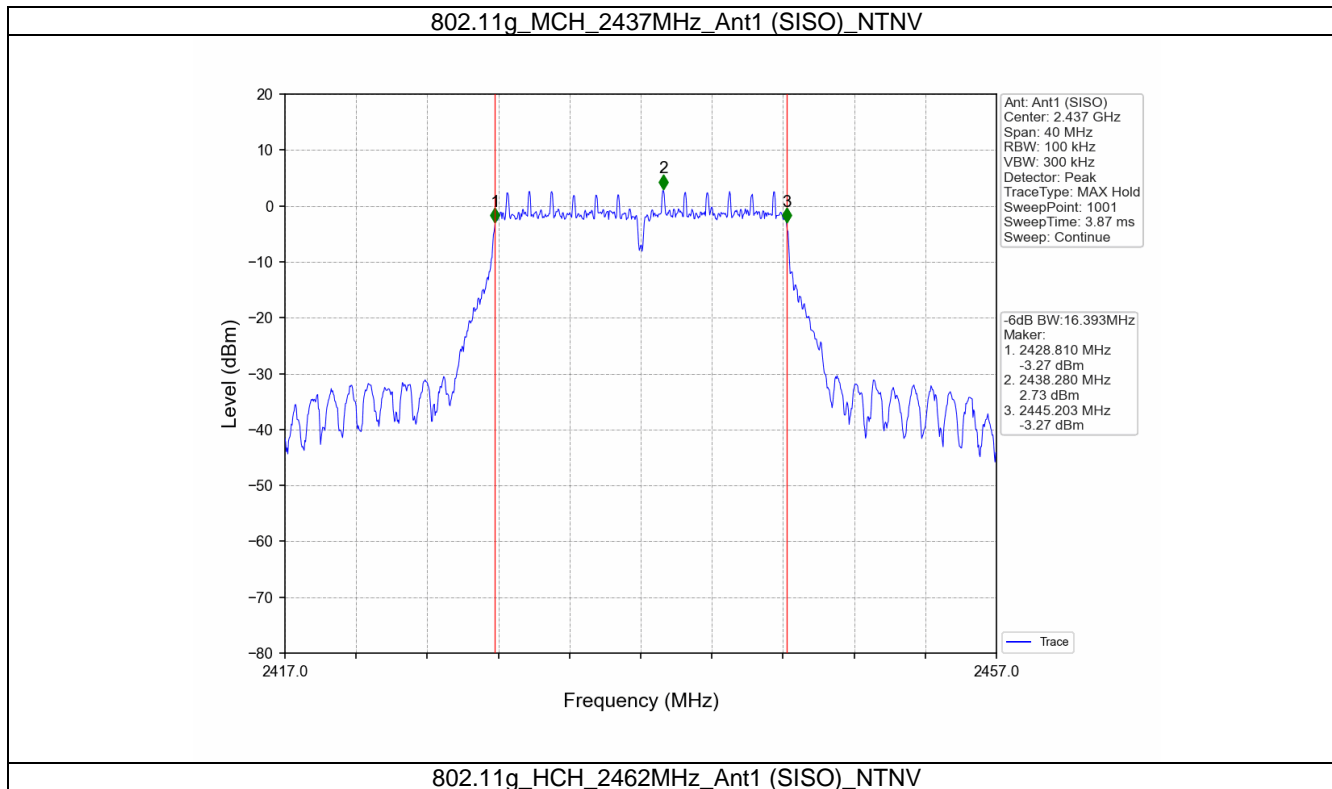
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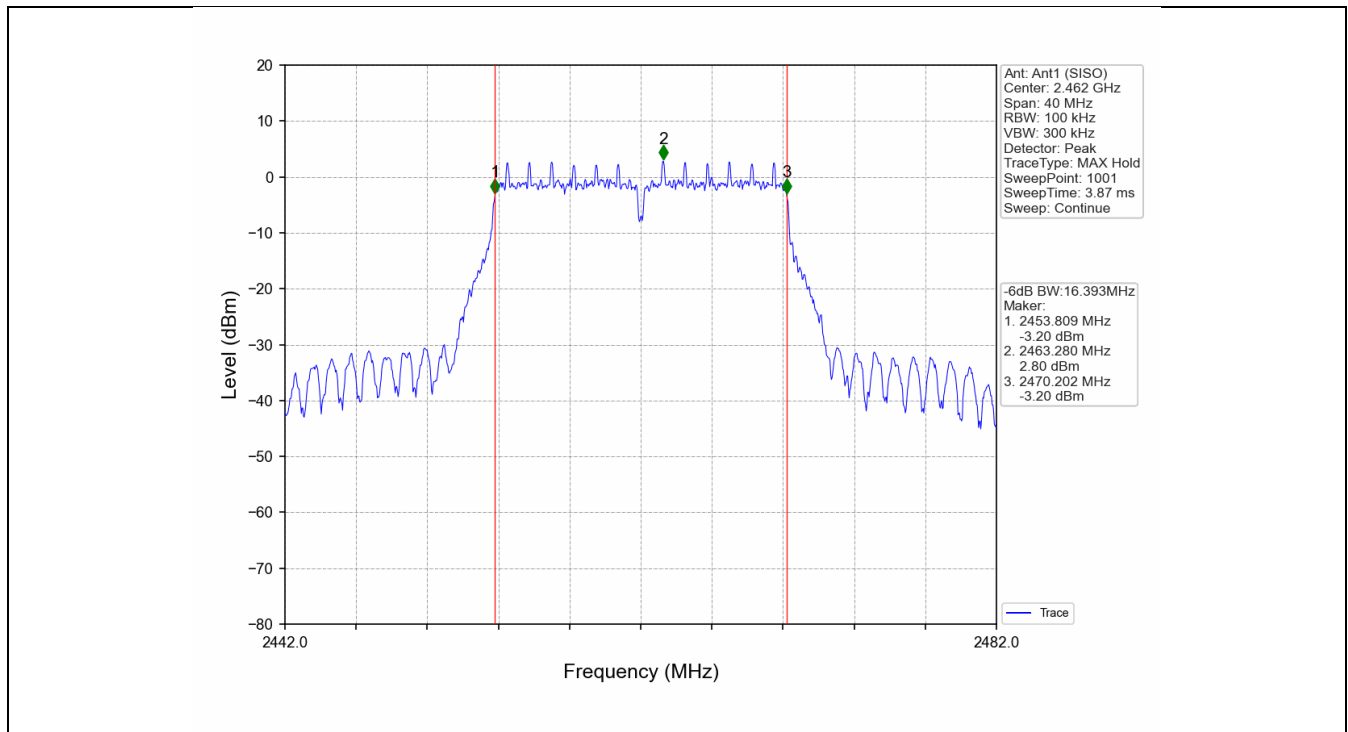
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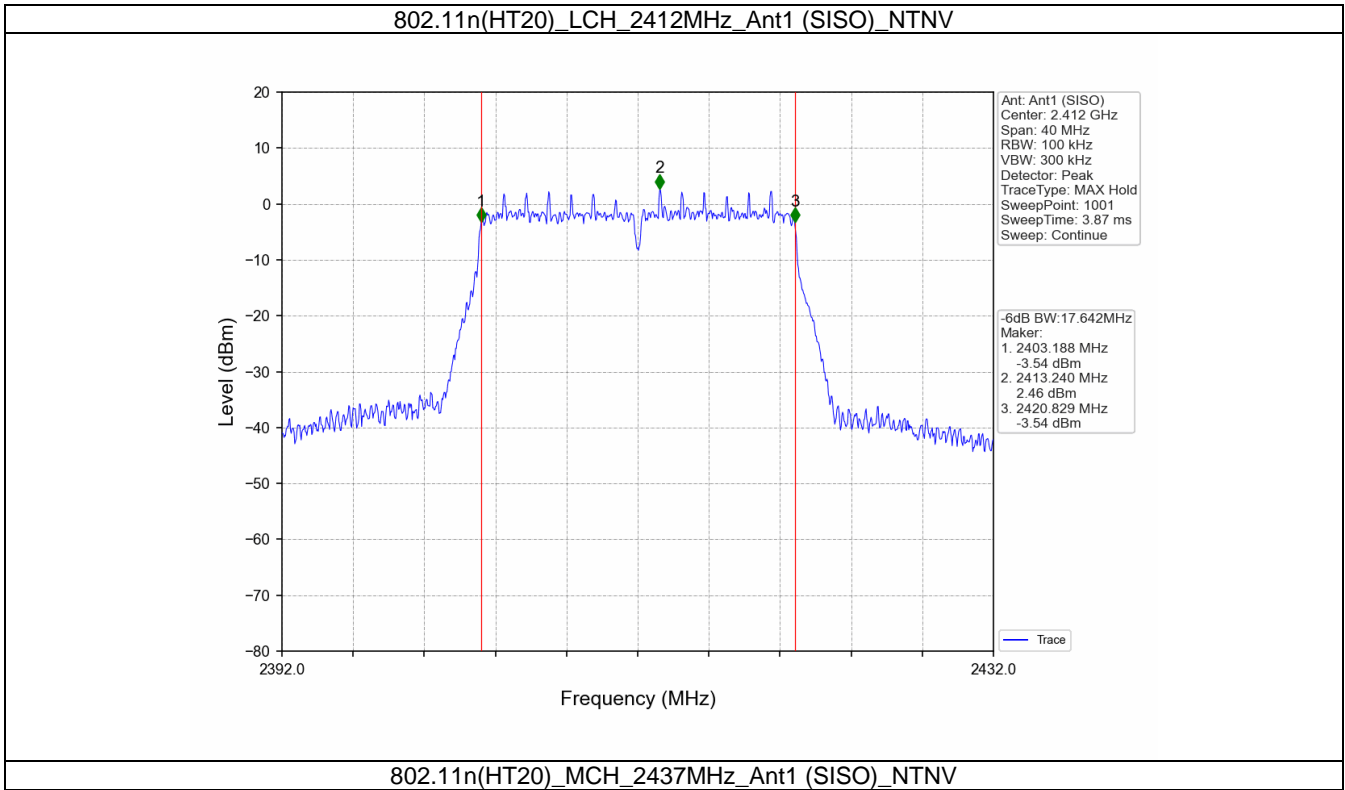
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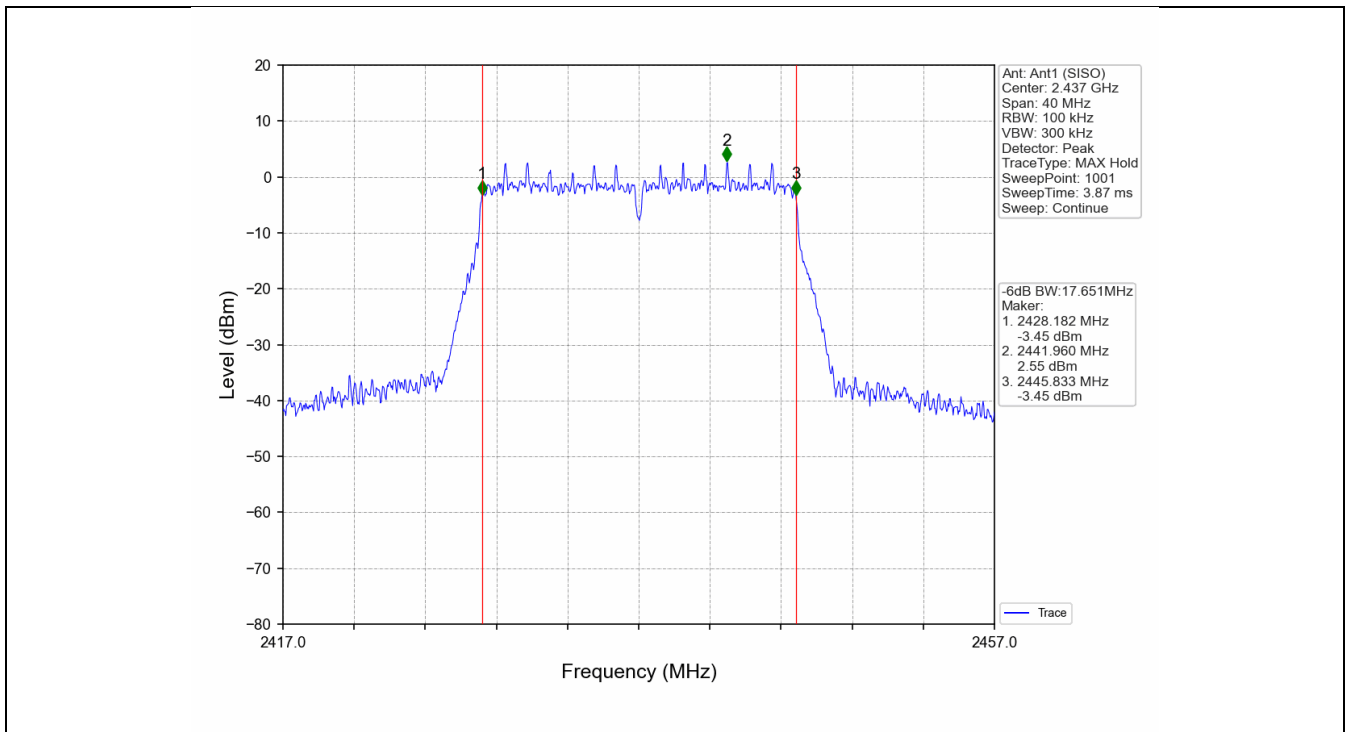
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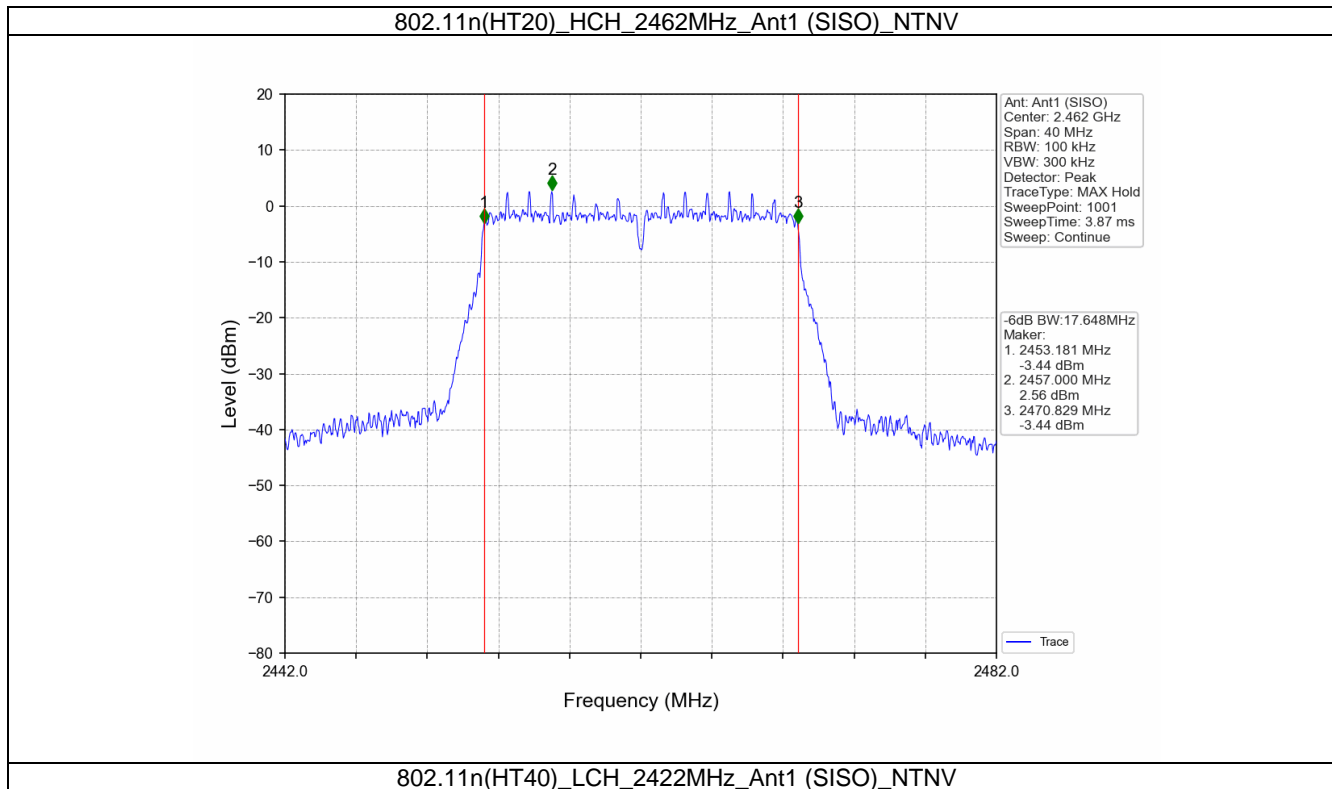
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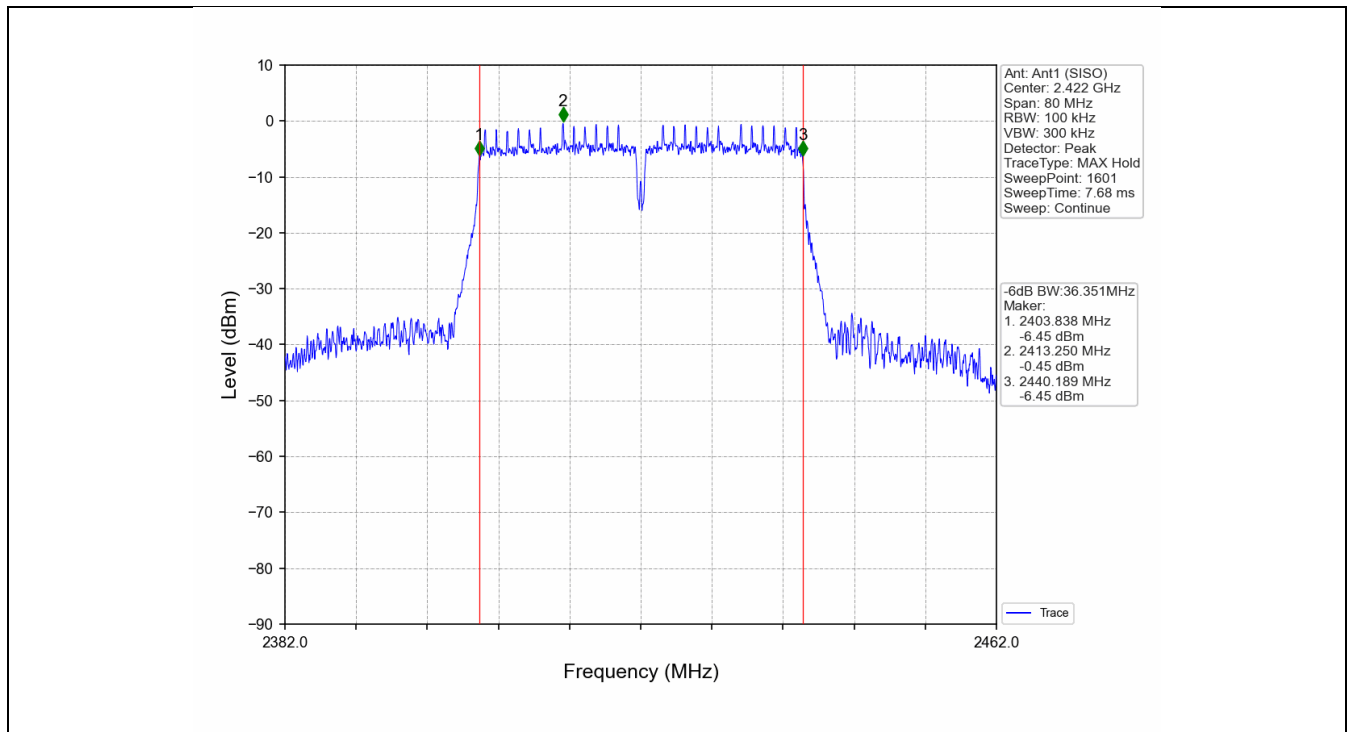
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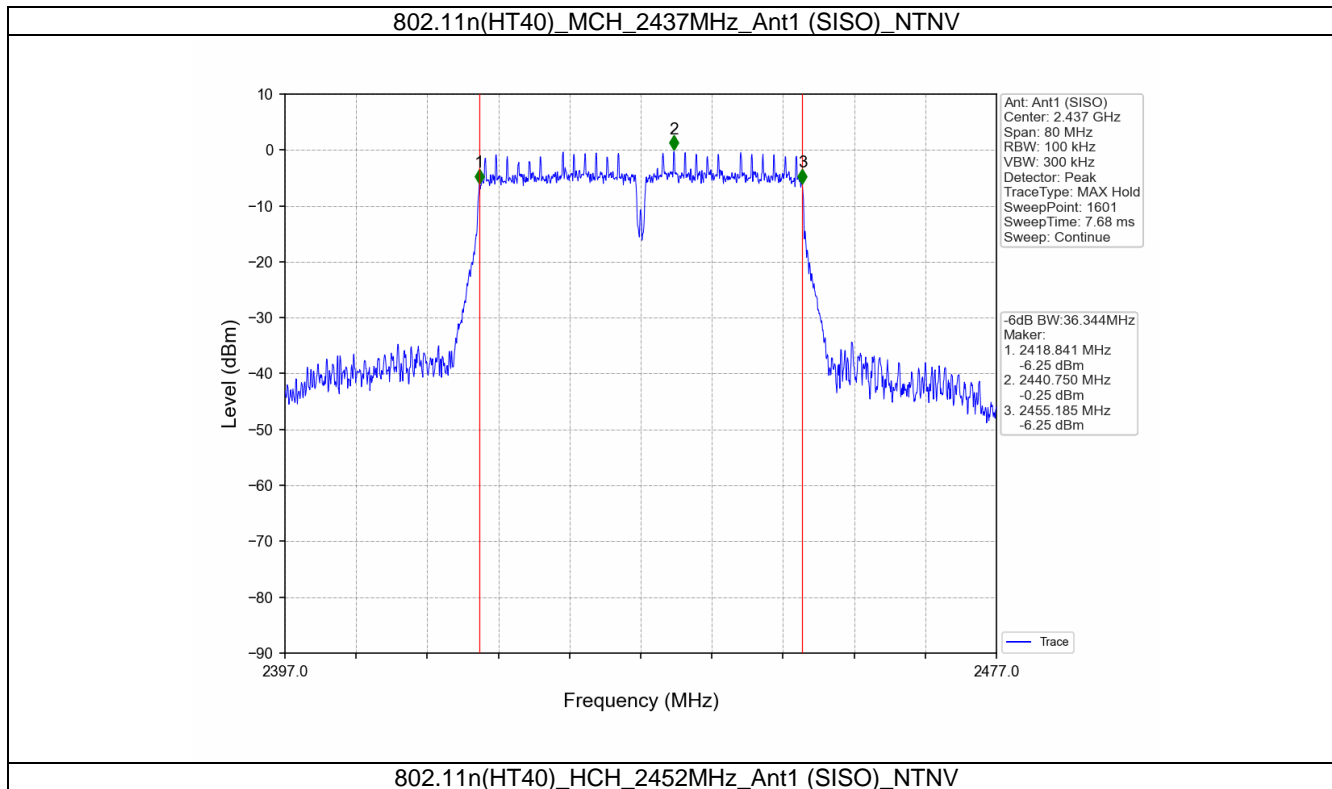
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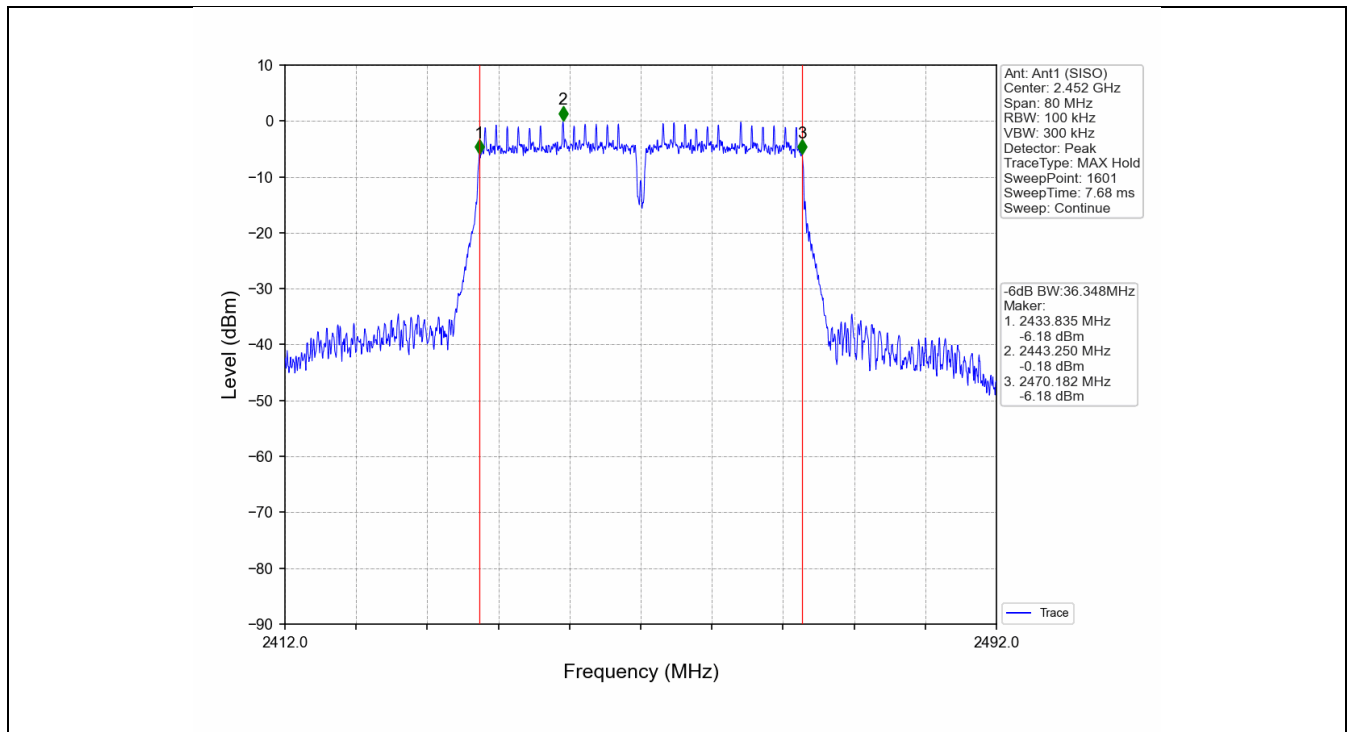
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	15.81	<=30	Pass
		2437	16.05	<=30	Pass
		2462	16.09	<=30	Pass
802.11g	SISO	2412	13.69	<=30	Pass
		2437	13.91	<=30	Pass
		2462	14.02	<=30	Pass
802.11n (HT20)	SISO	2412	13.59	<=30	Pass
		2437	13.86	<=30	Pass
		2462	13.80	<=30	Pass
802.11n (HT40)	SISO	2422	13.75	<=30	Pass
		2437	13.87	<=30	Pass
		2452	13.93	<=30	Pass

Note1: Antenna Gain: Ant1: 2dBi;

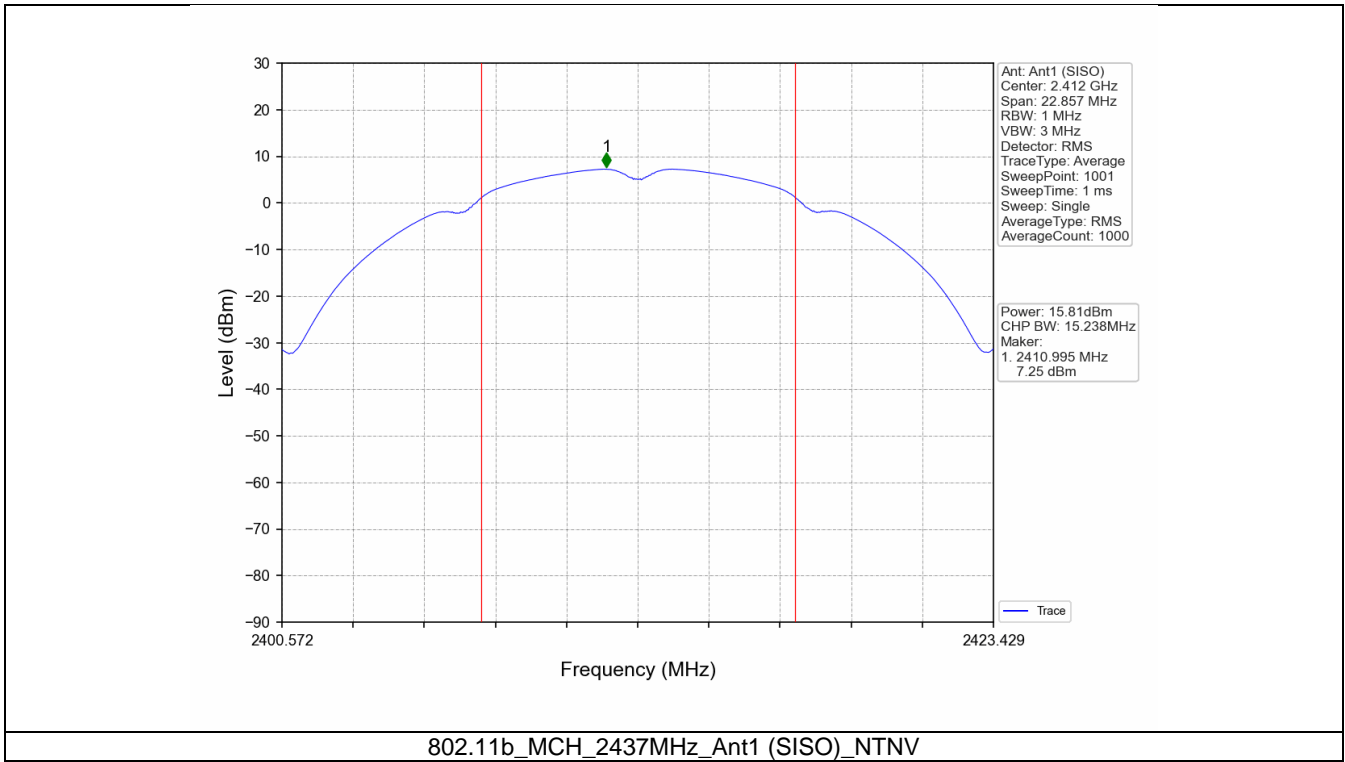
3.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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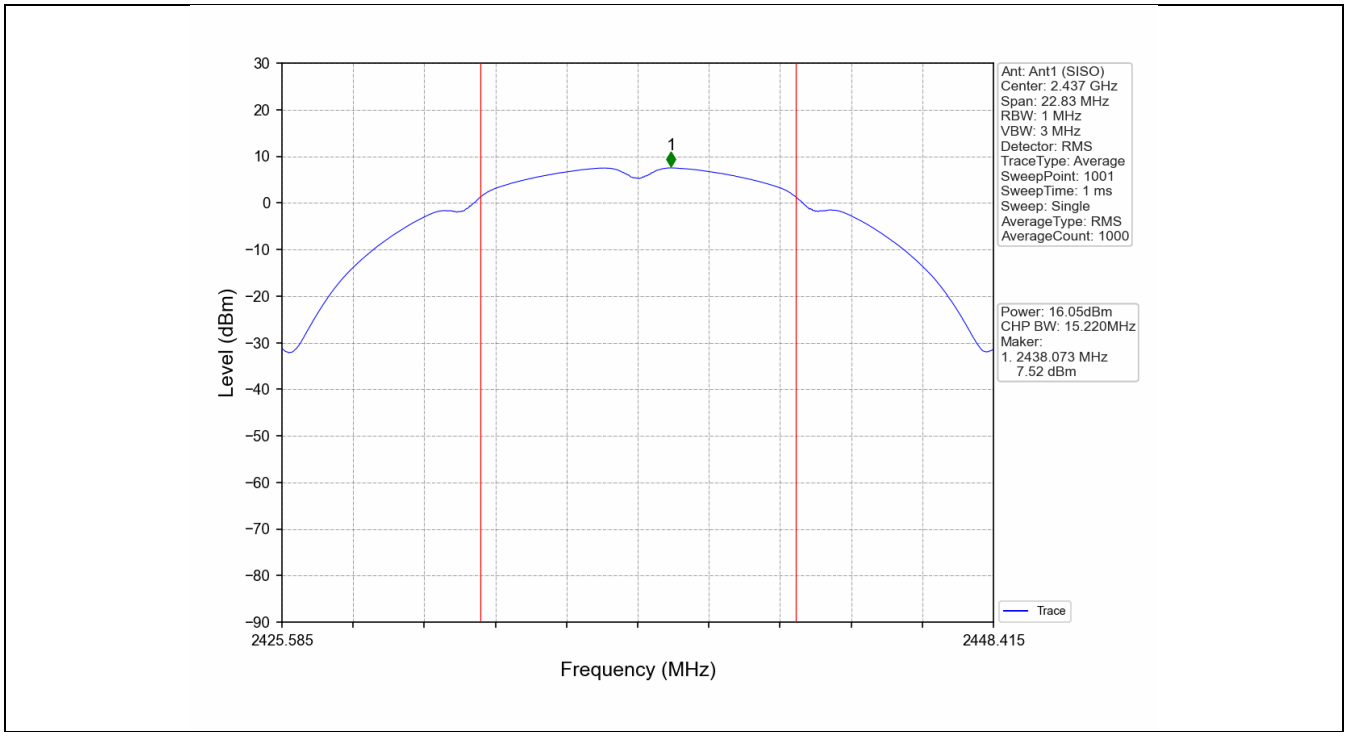
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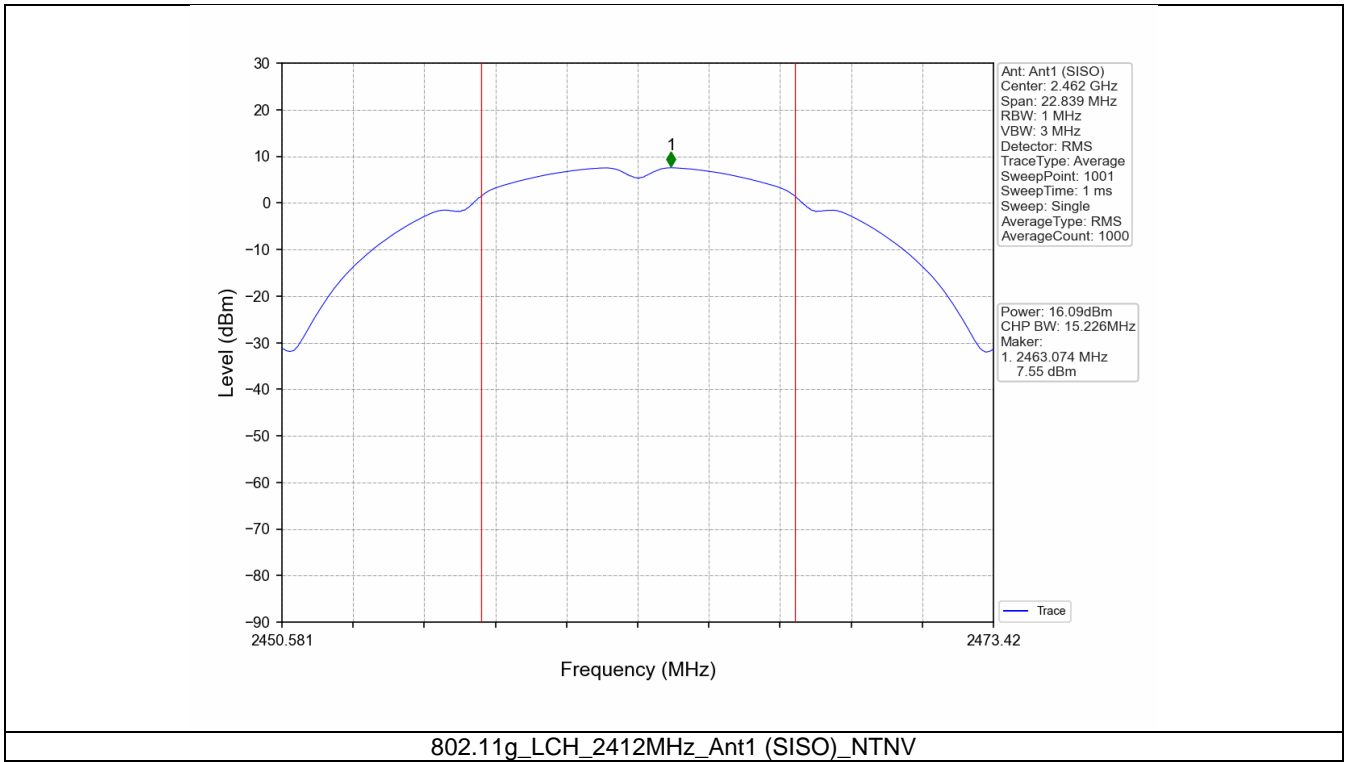


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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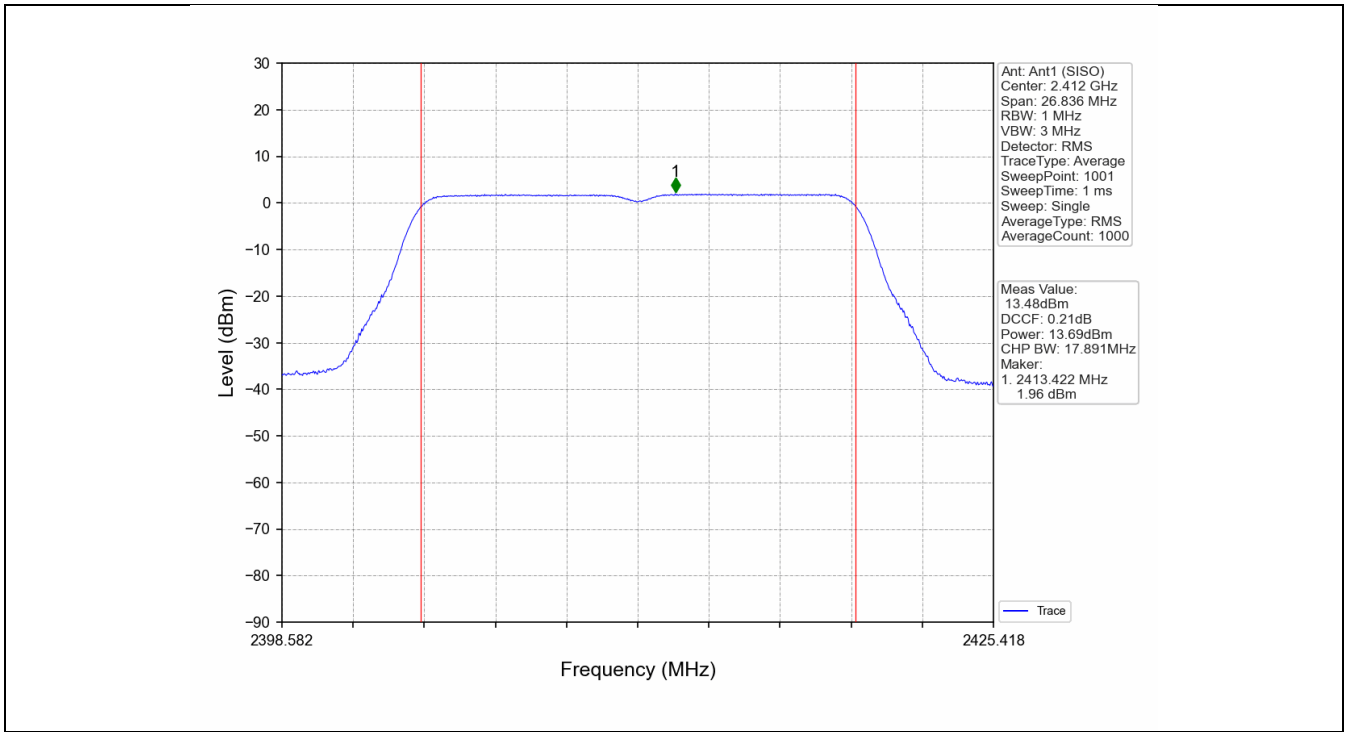
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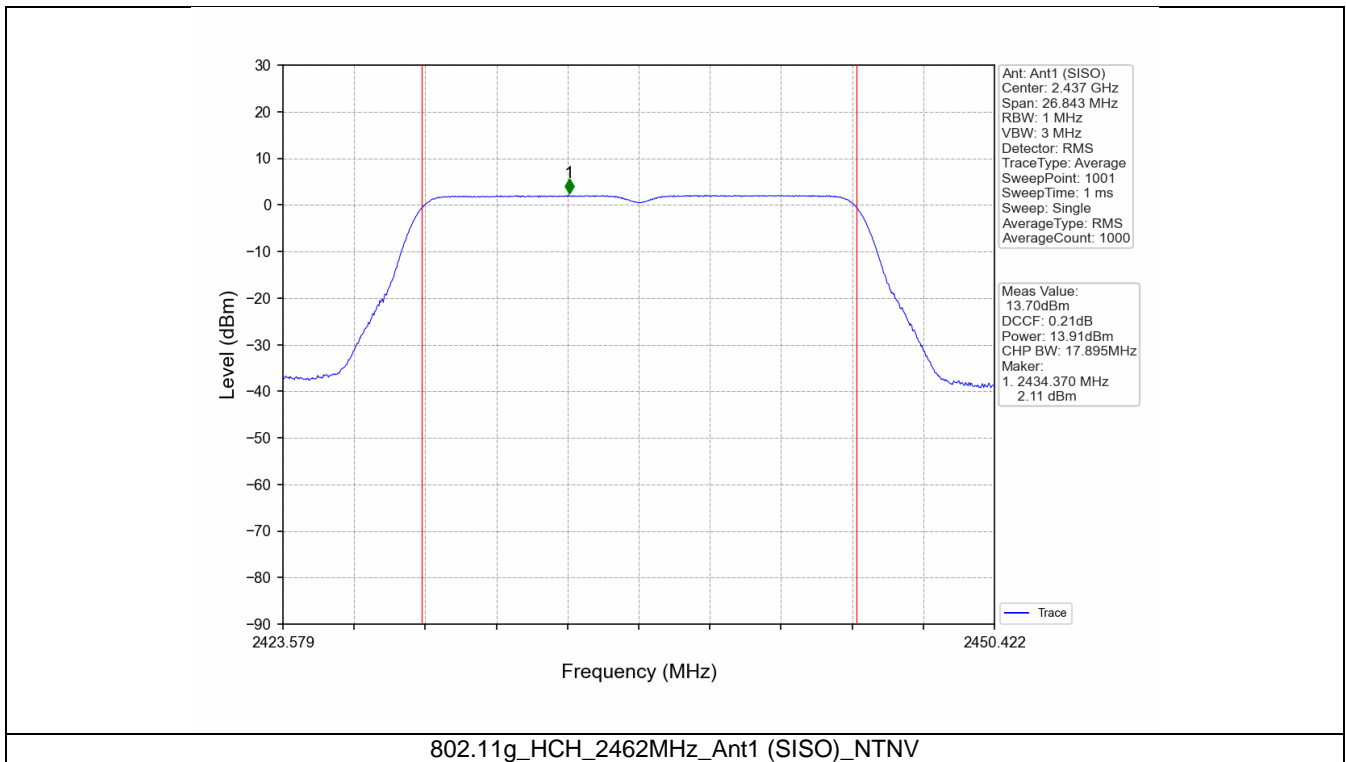


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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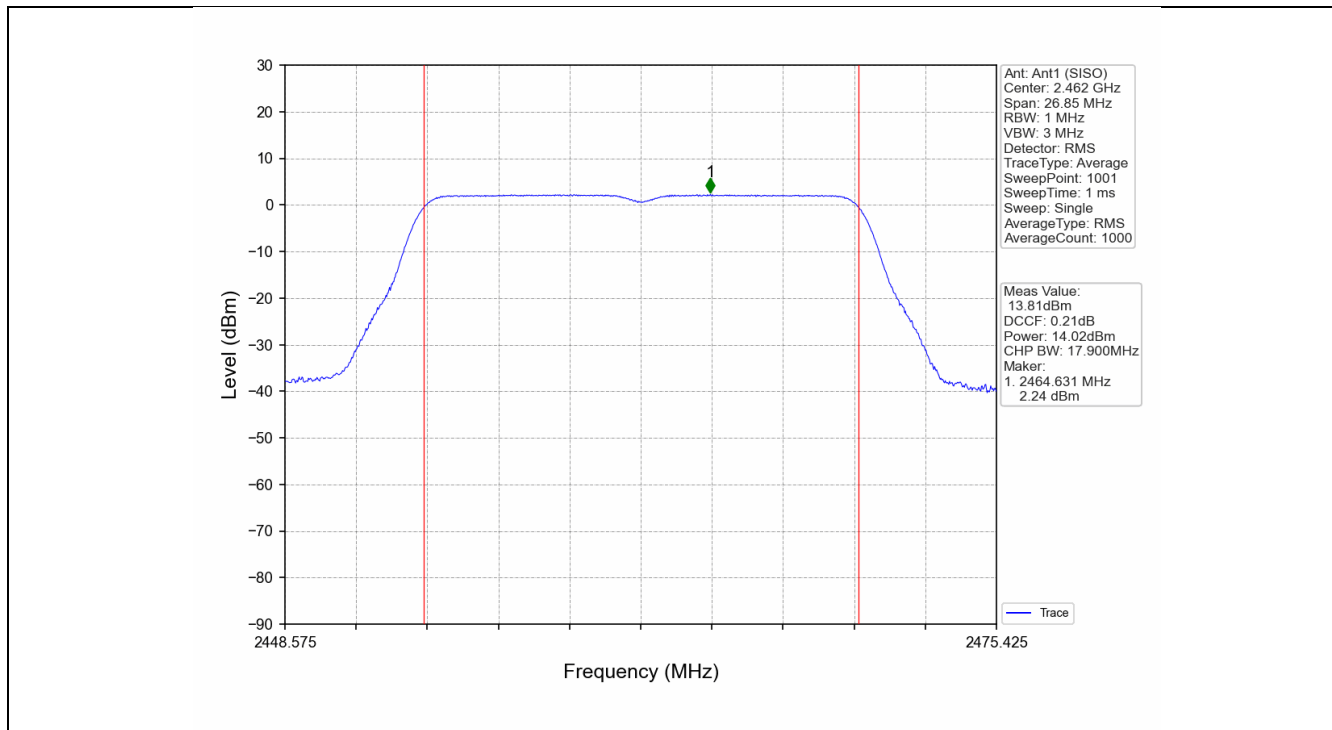
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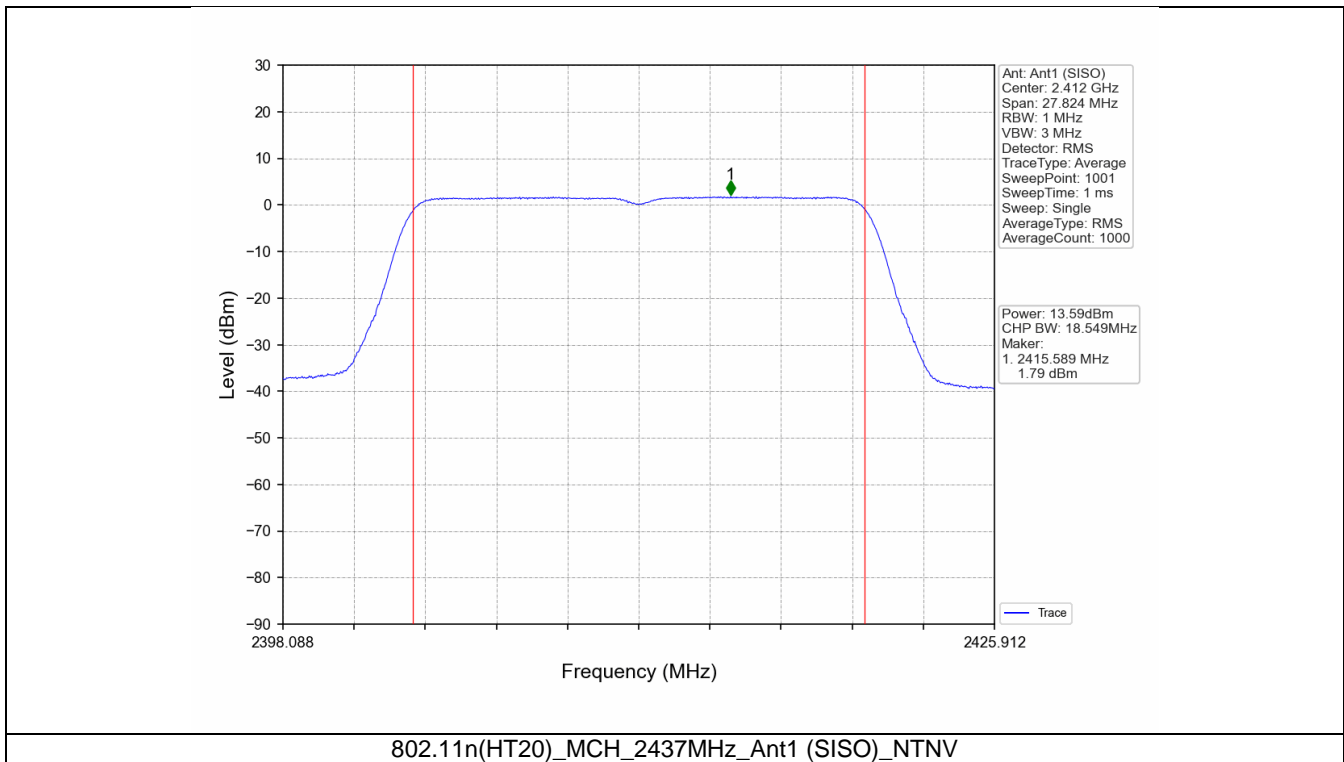


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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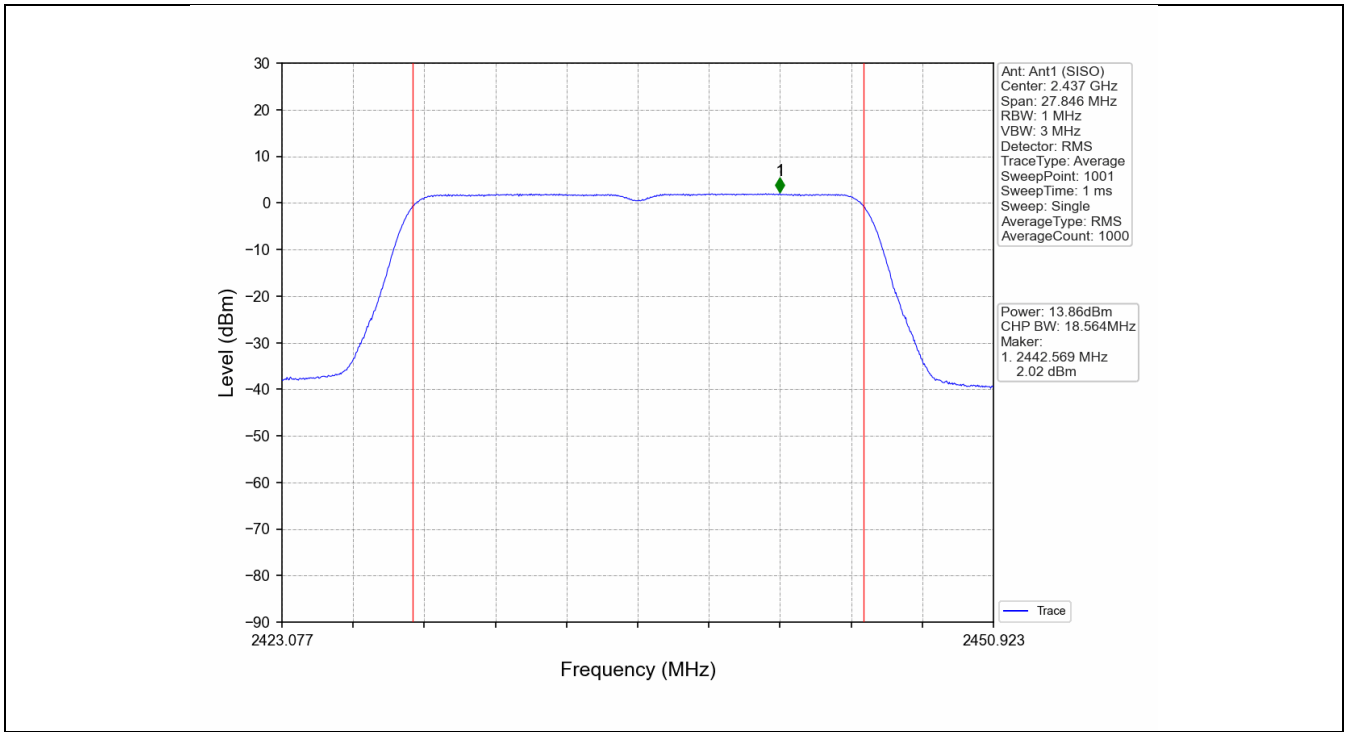
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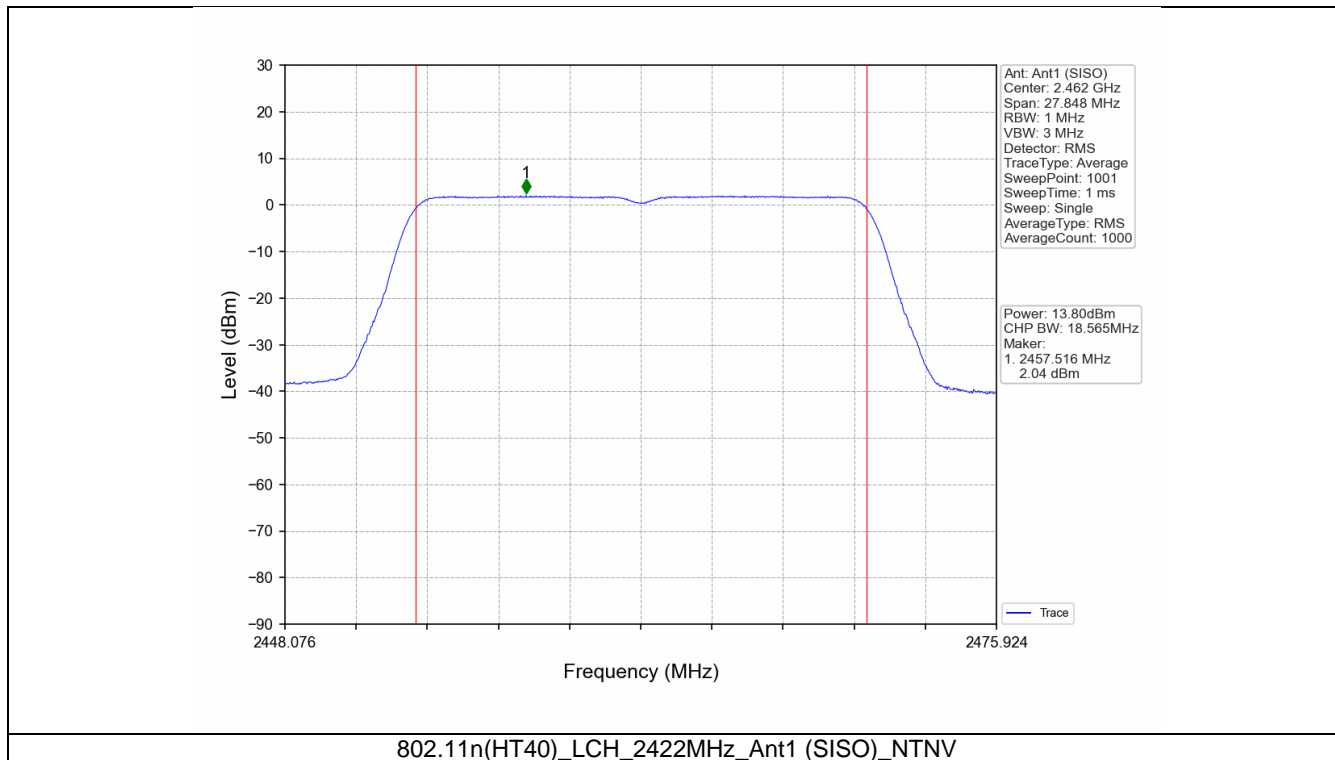
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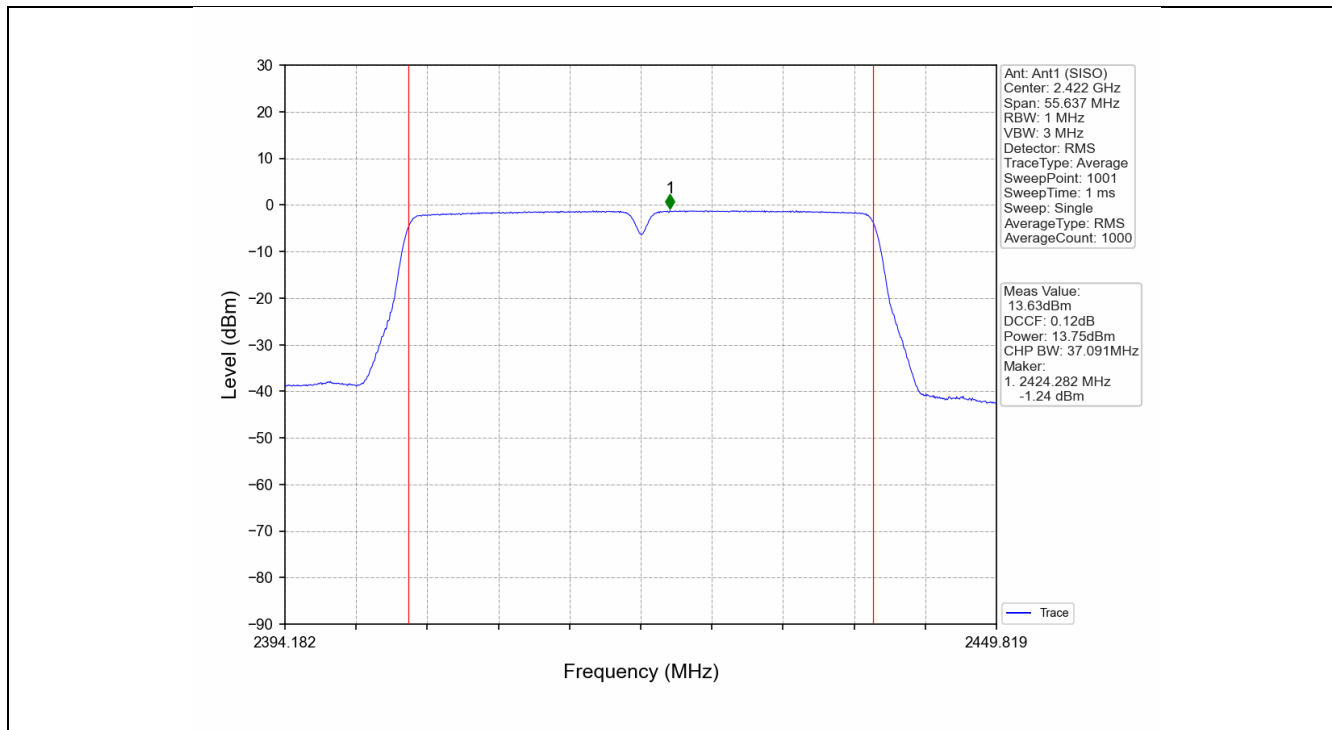
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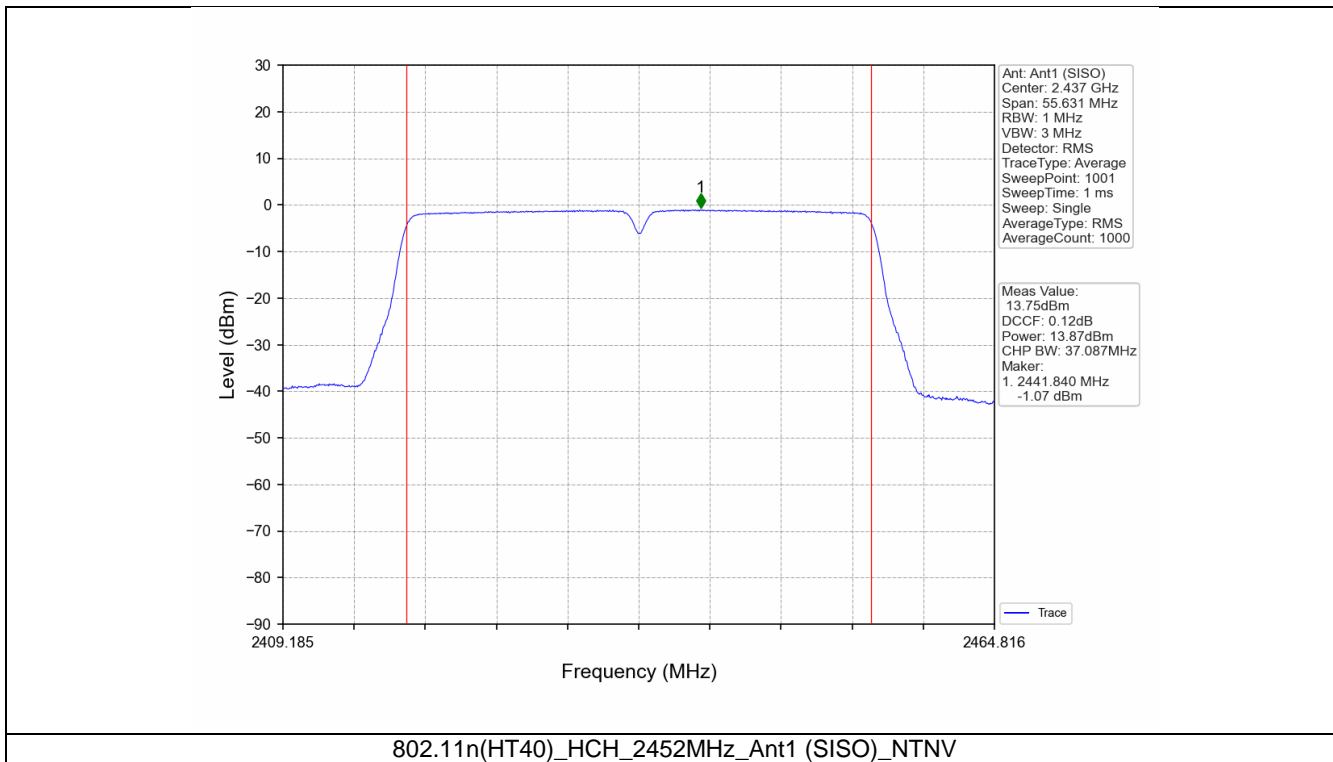
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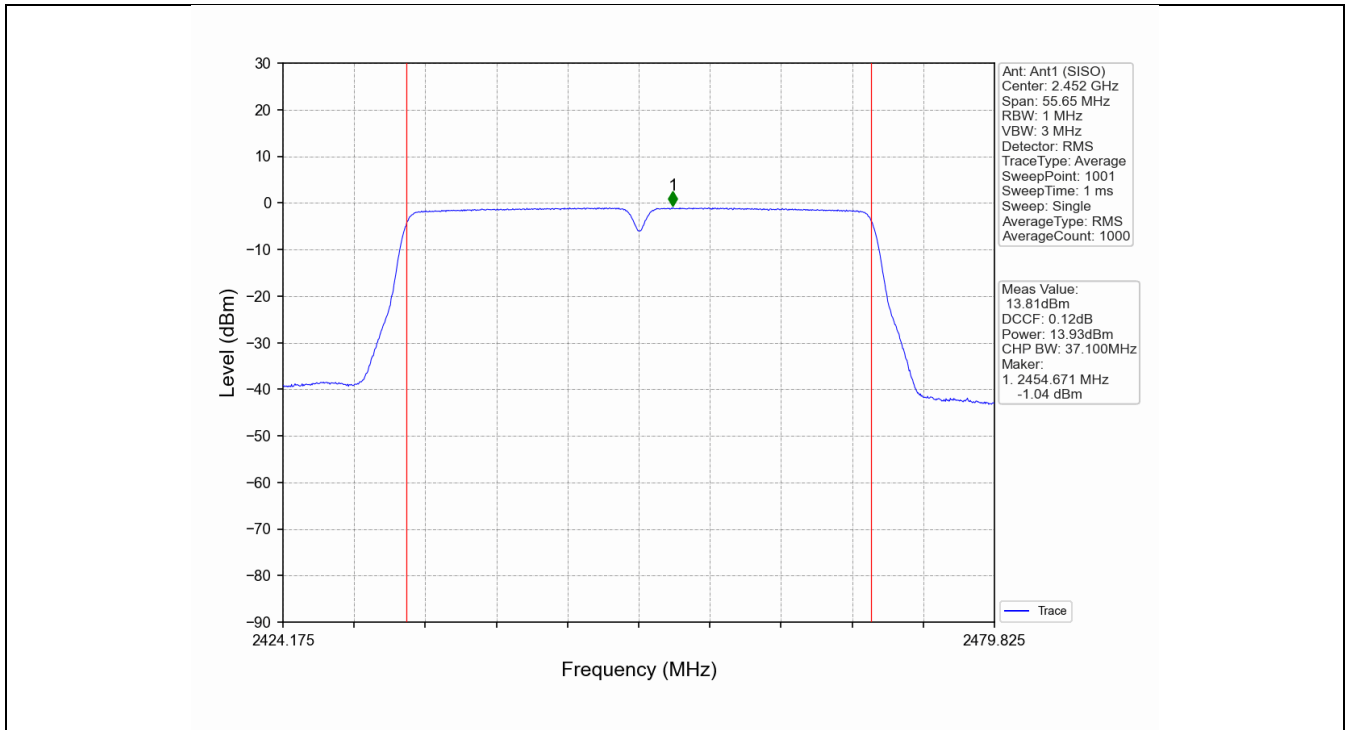
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-10.62	<=8	Pass
		2437	-10.59	<=8	Pass
		2462	-9.93	<=8	Pass
802.11g	SISO	2412	-13.65	<=8	Pass
		2437	-14.00	<=8	Pass
		2462	-12.66	<=8	Pass
802.11n (HT20)	SISO	2412	-13.99	<=8	Pass
		2437	-13.76	<=8	Pass
		2462	-14.18	<=8	Pass
802.11n (HT40)	SISO	2422	-15.87	<=8	Pass
		2437	-15.55	<=8	Pass
		2452	-15.66	<=8	Pass

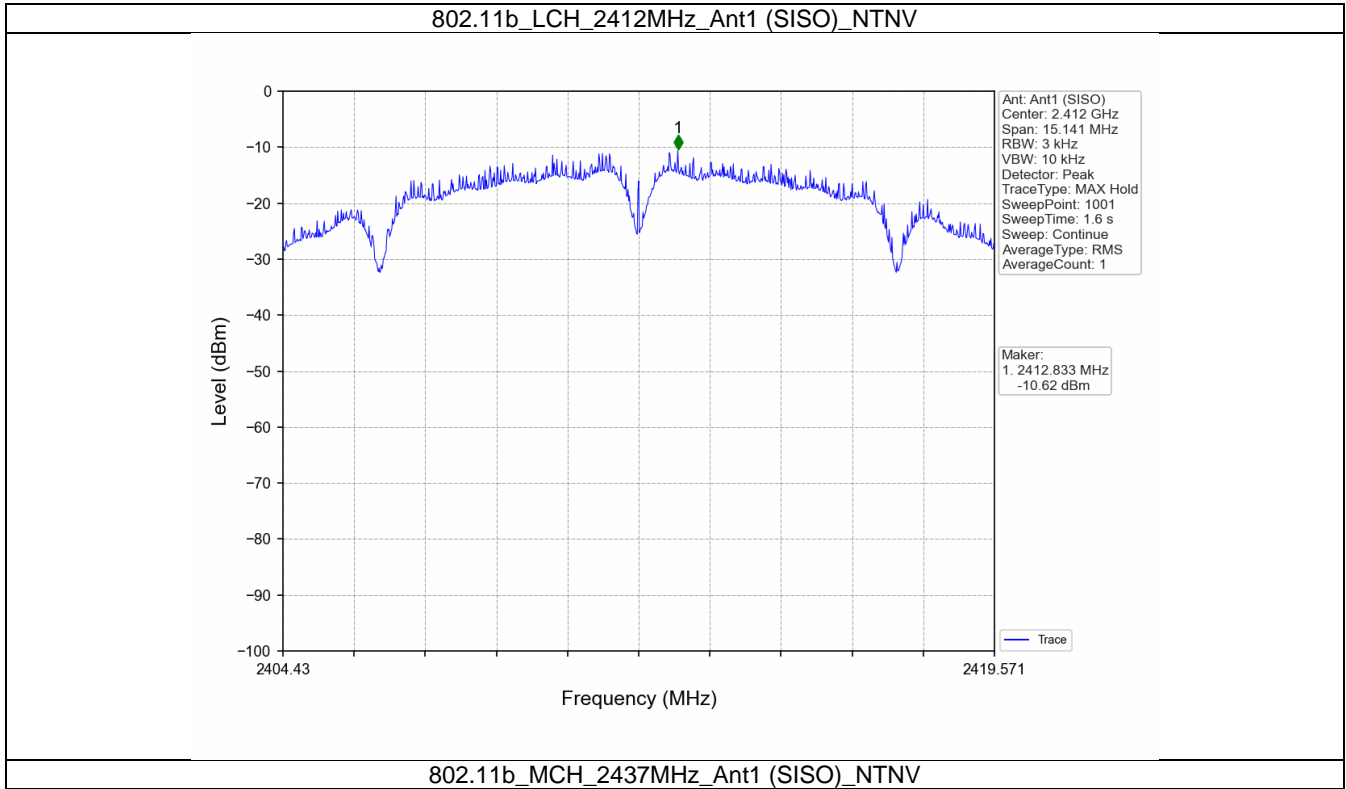
Note1: Antenna Gain: Ant1: 2dBi;



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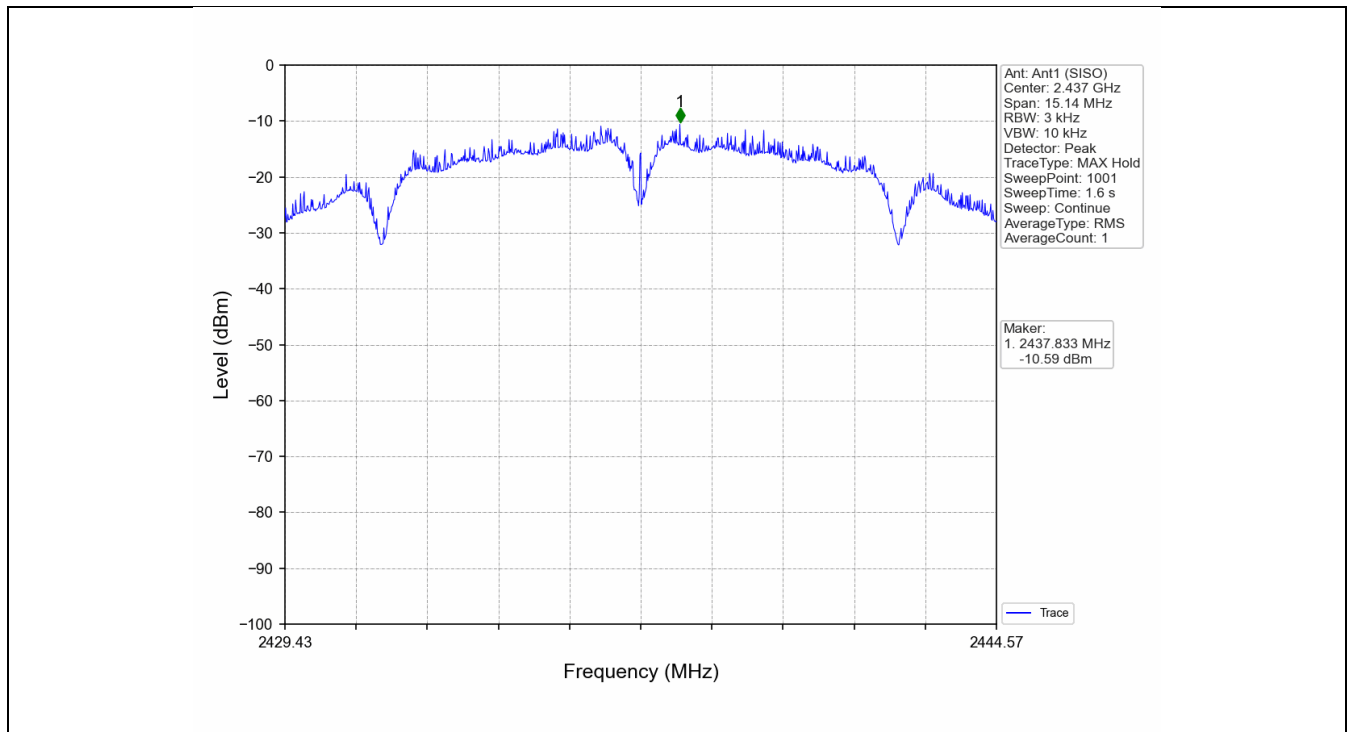
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4.1.2 Test Graph



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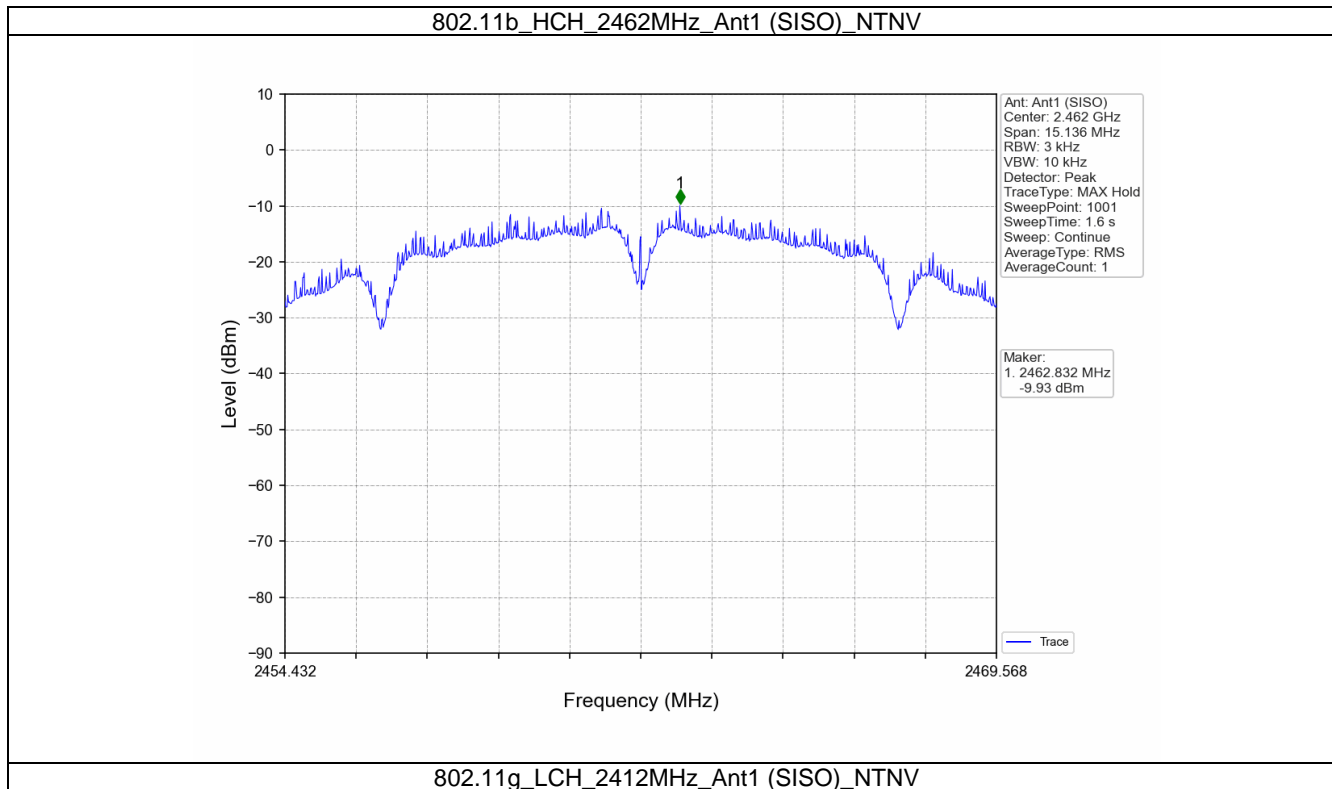
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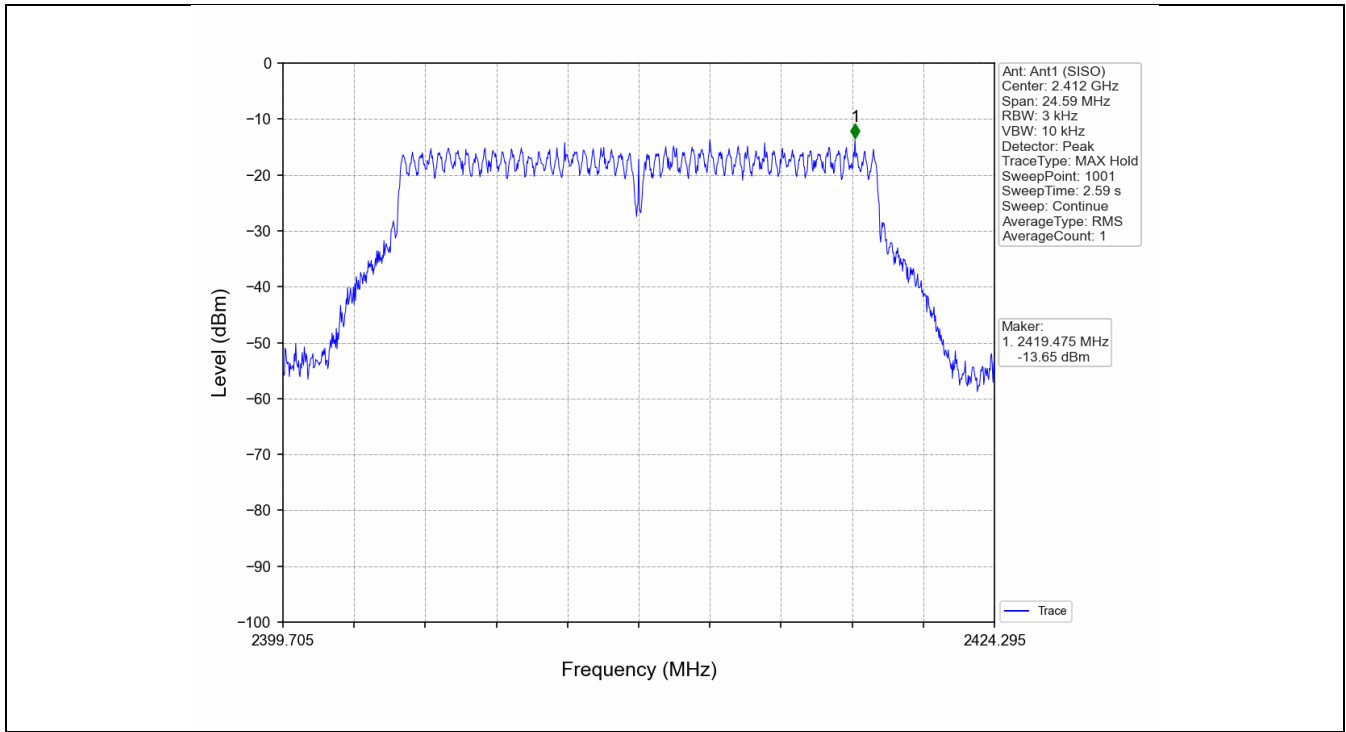
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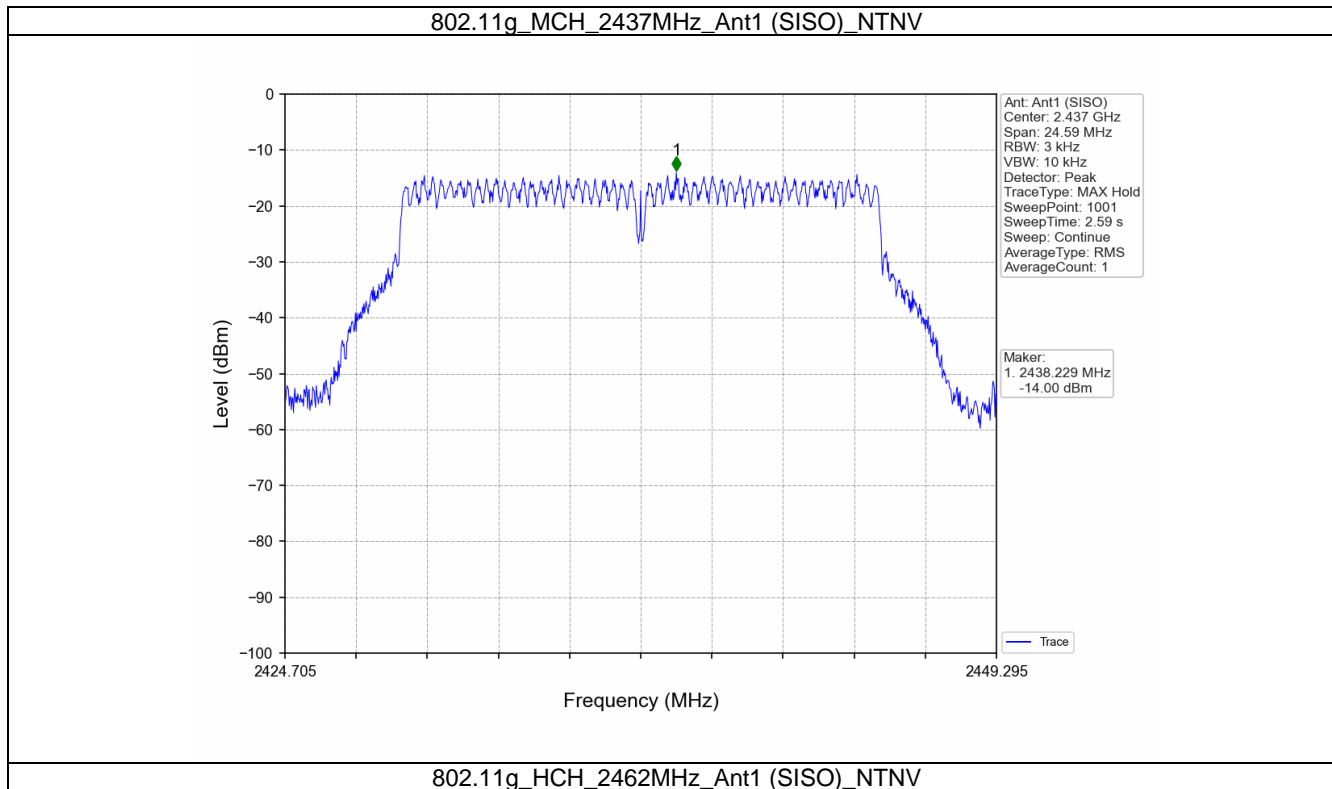
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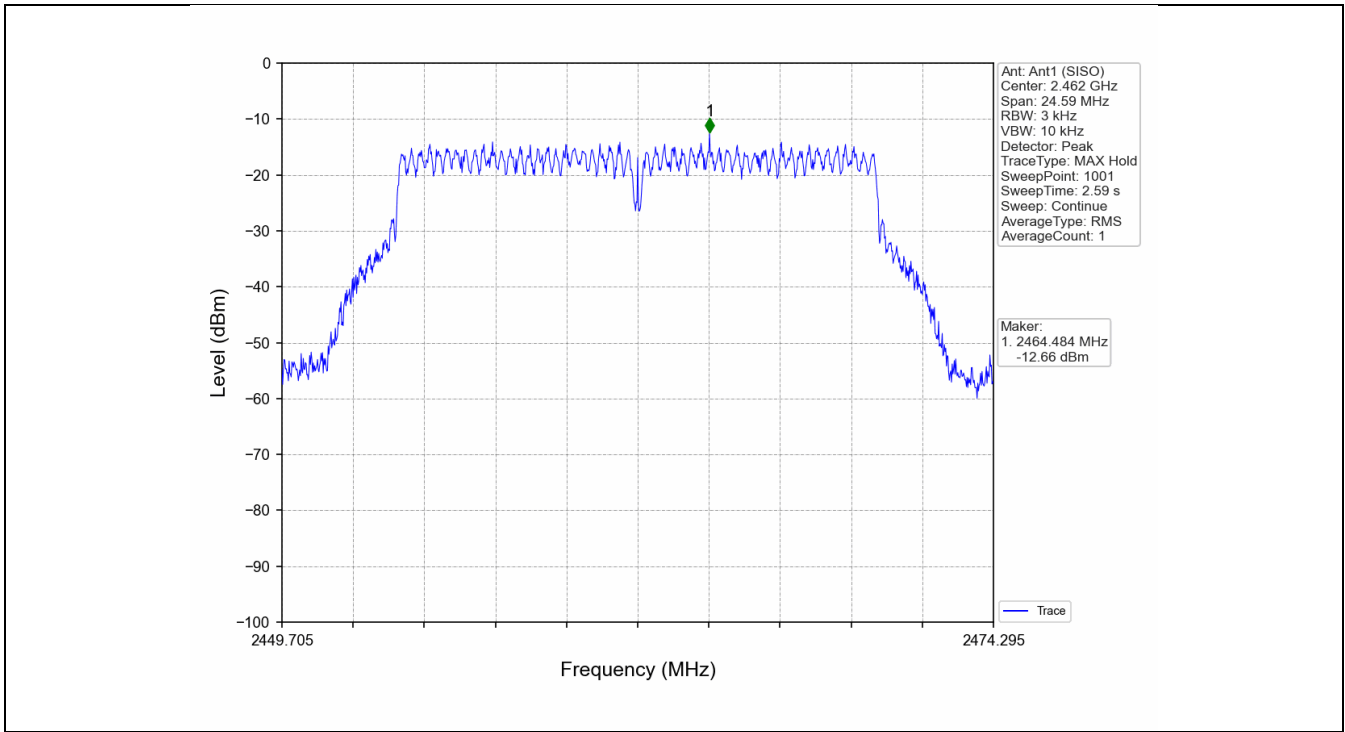
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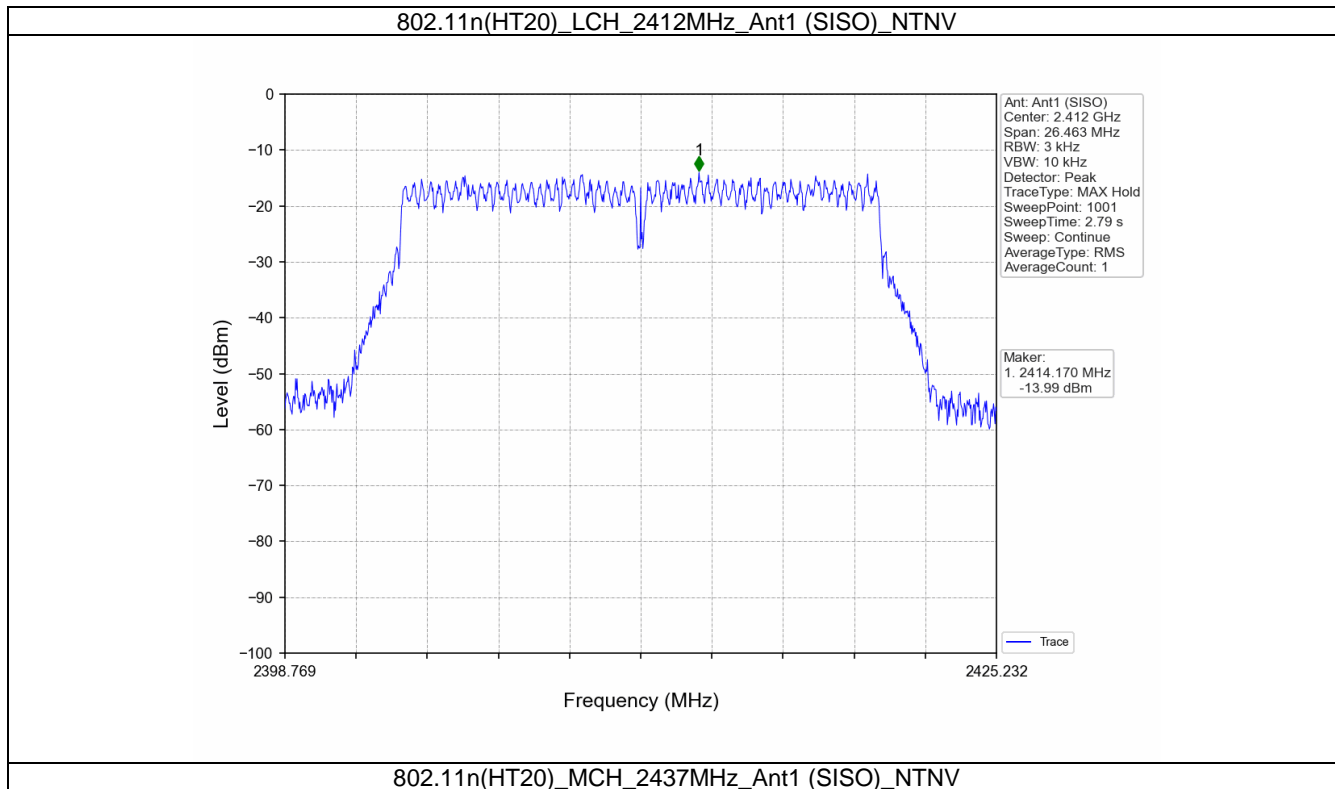
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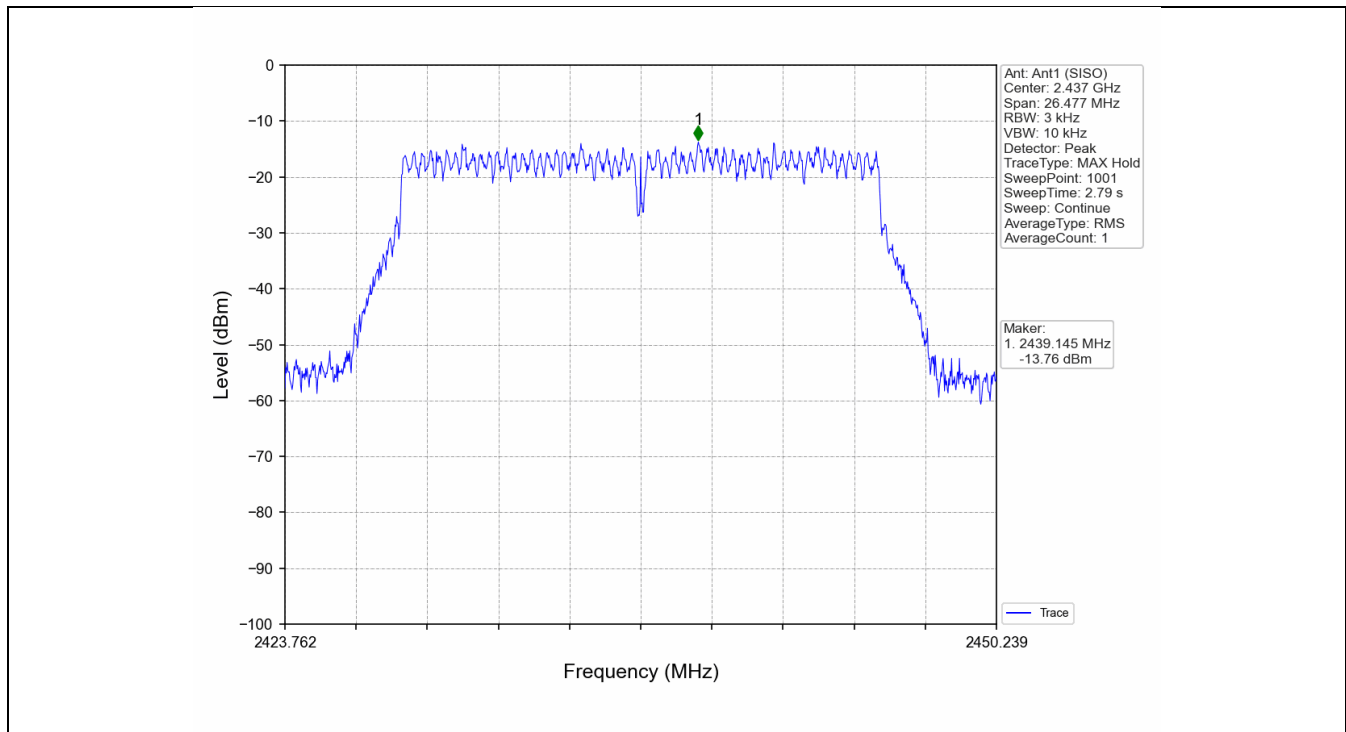
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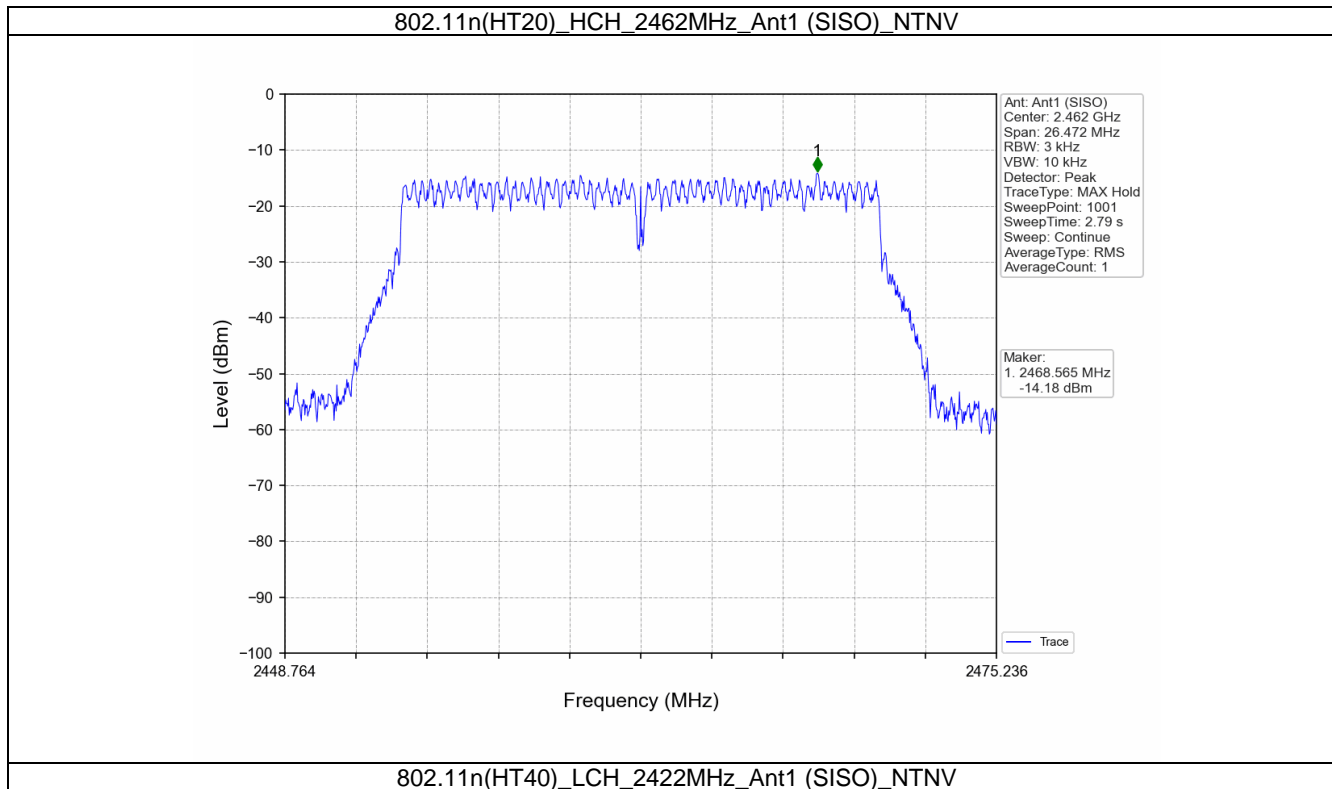
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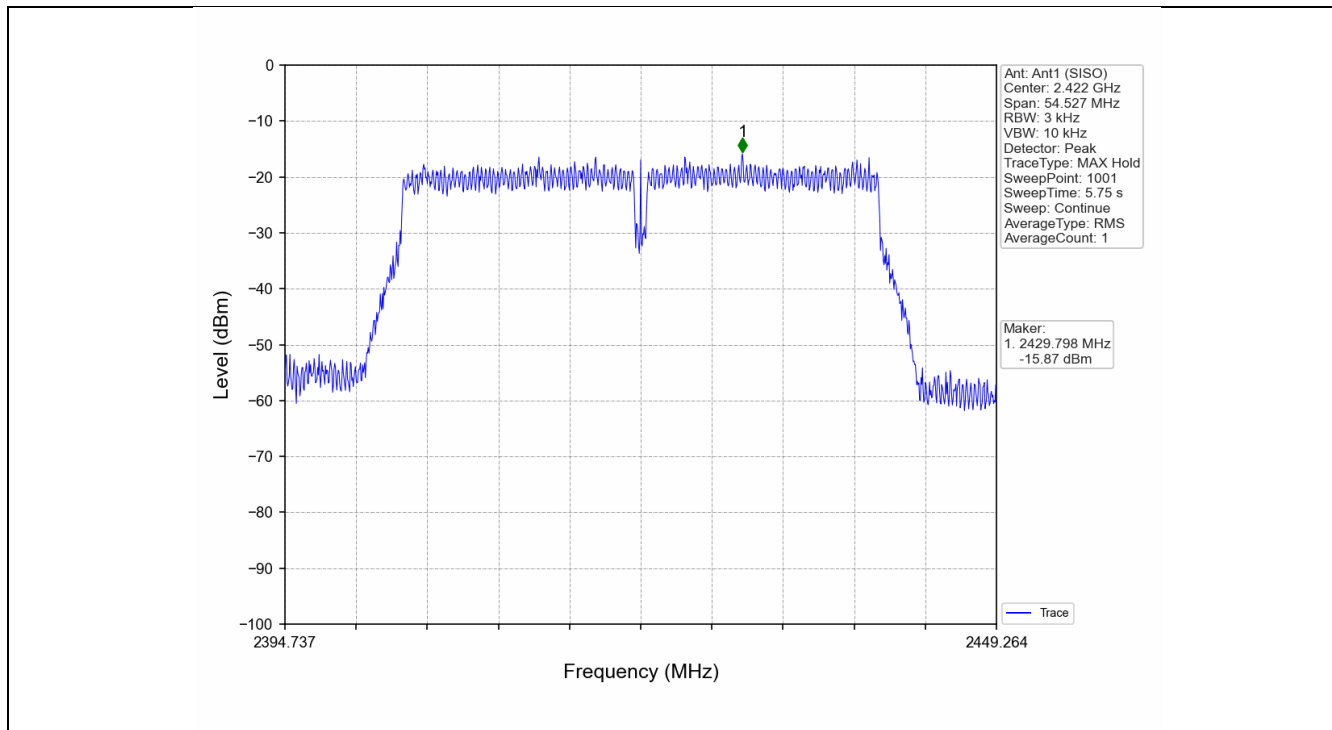
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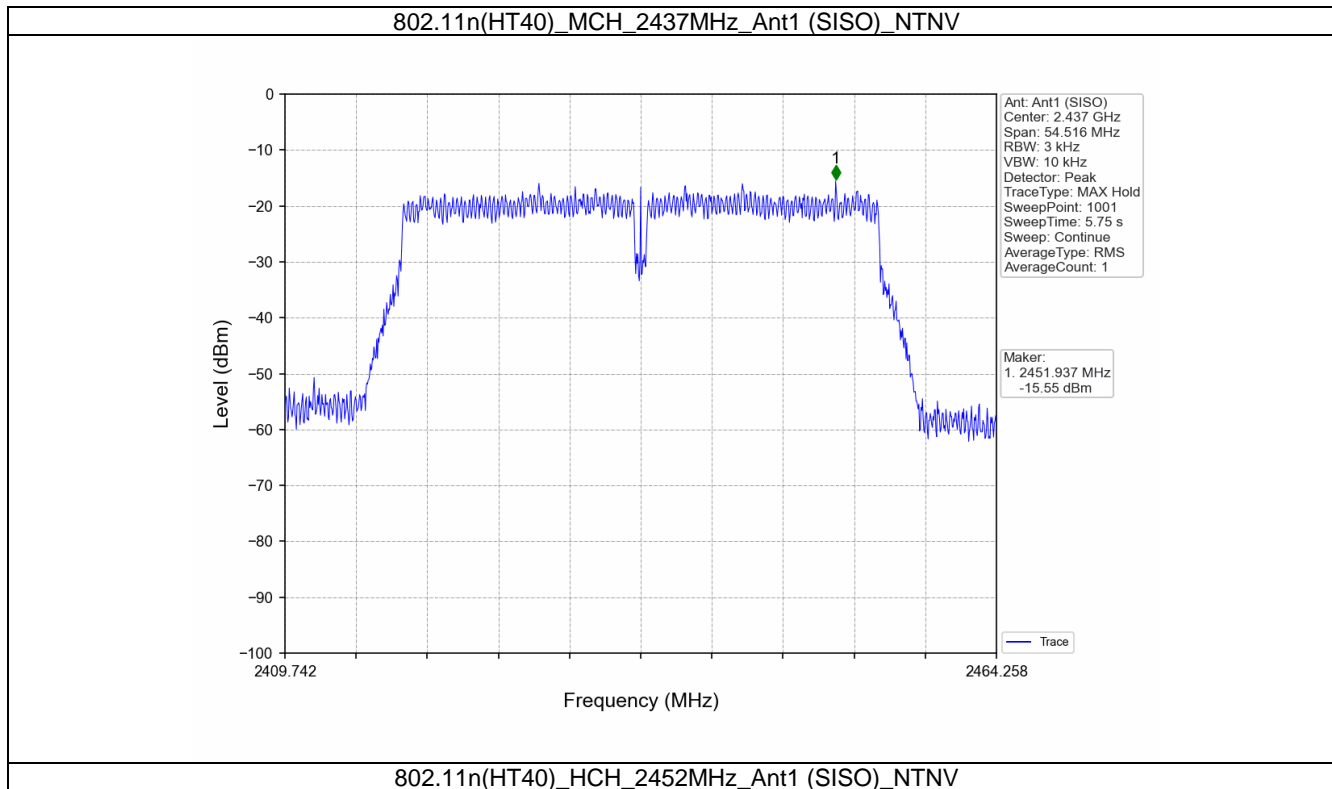
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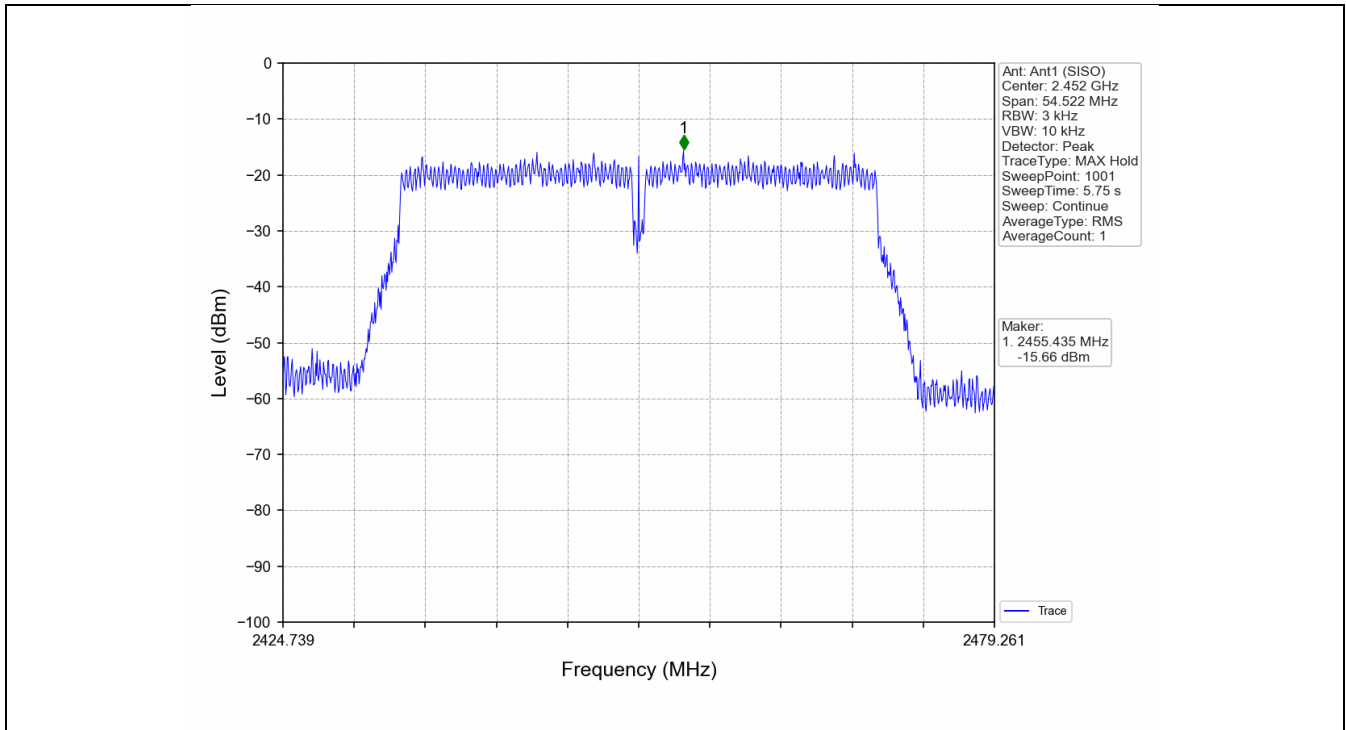
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	5.94
		2437	1	6.18
		2462	1	6.23
802.11g	SISO	2412	1	2.24
		2437	1	2.58
		2462	1	2.65
802.11n (HT20)	SISO	2412	1	2.25
		2437	1	2.28
		2462	1	1.94
802.11n (HT40)	SISO	2422	1	-0.64
		2437	1	-0.22
		2452	1	-0.18

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.

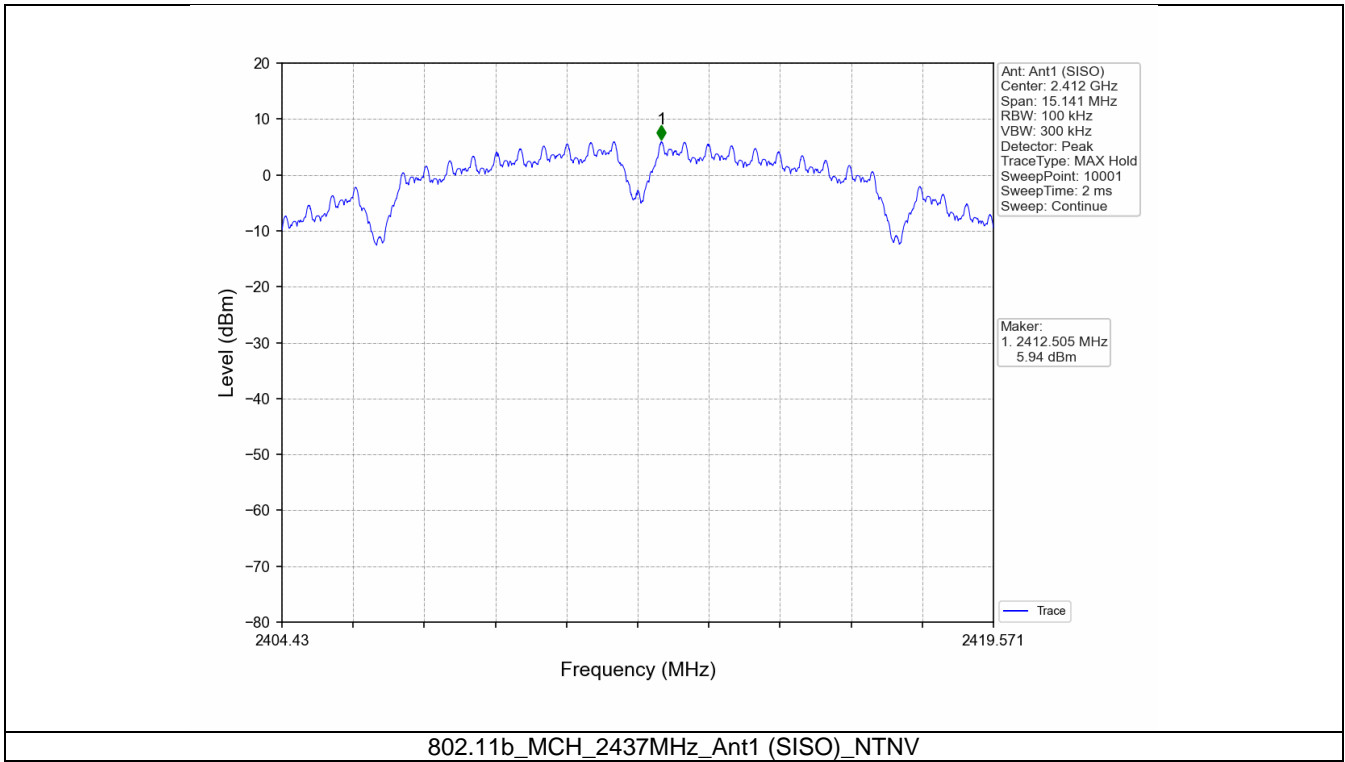
5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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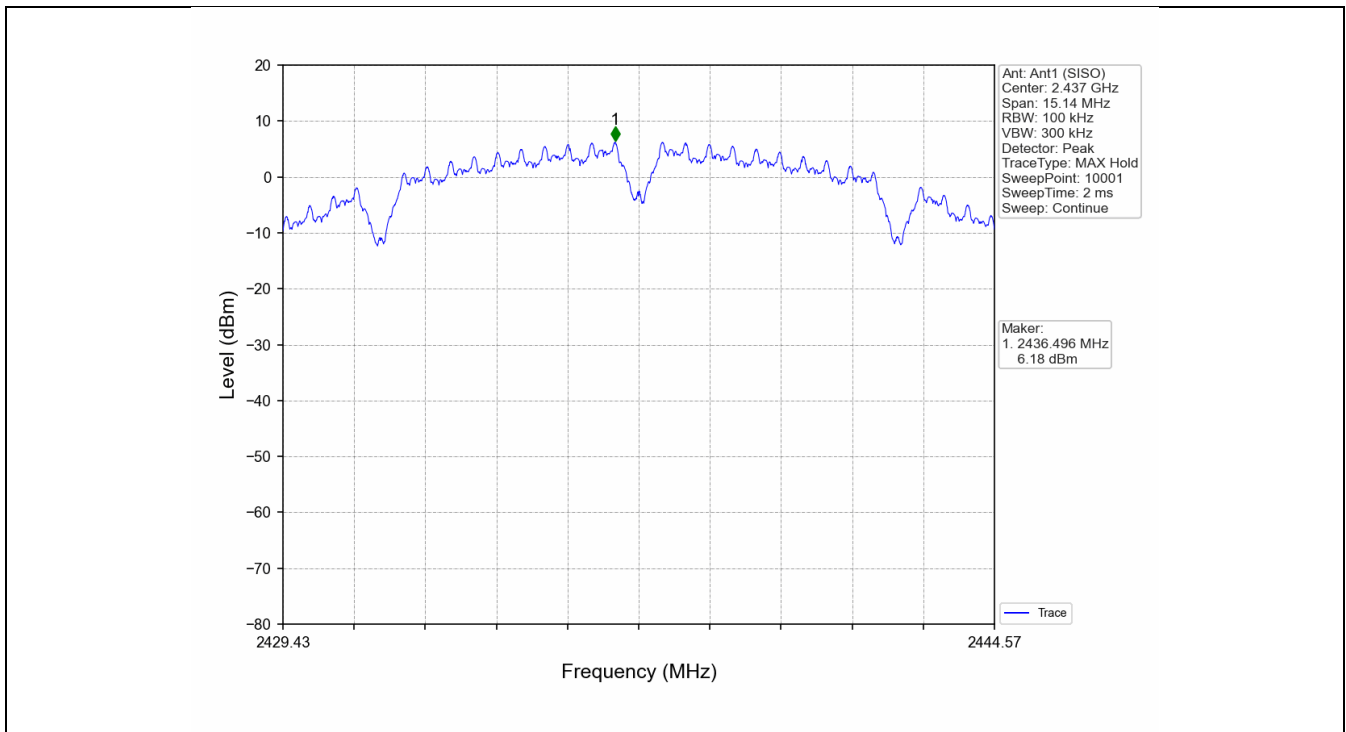
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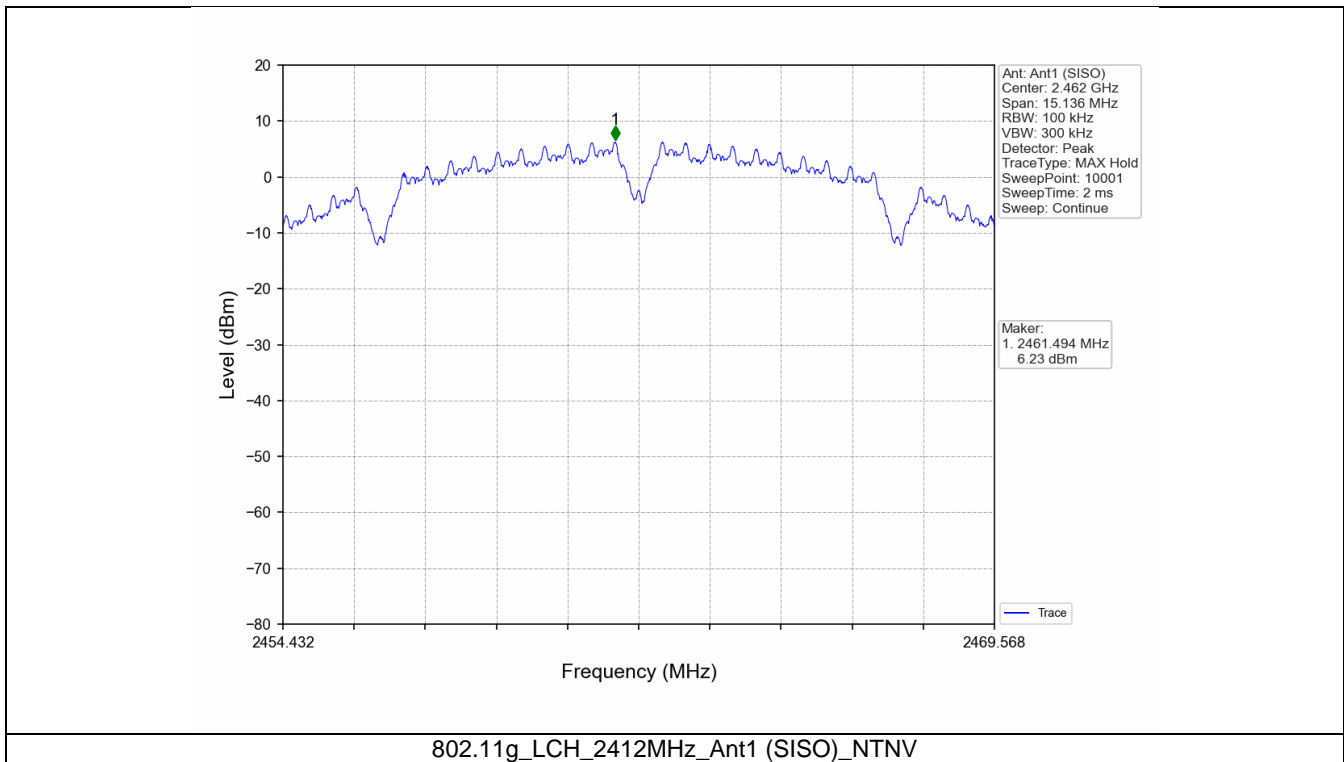
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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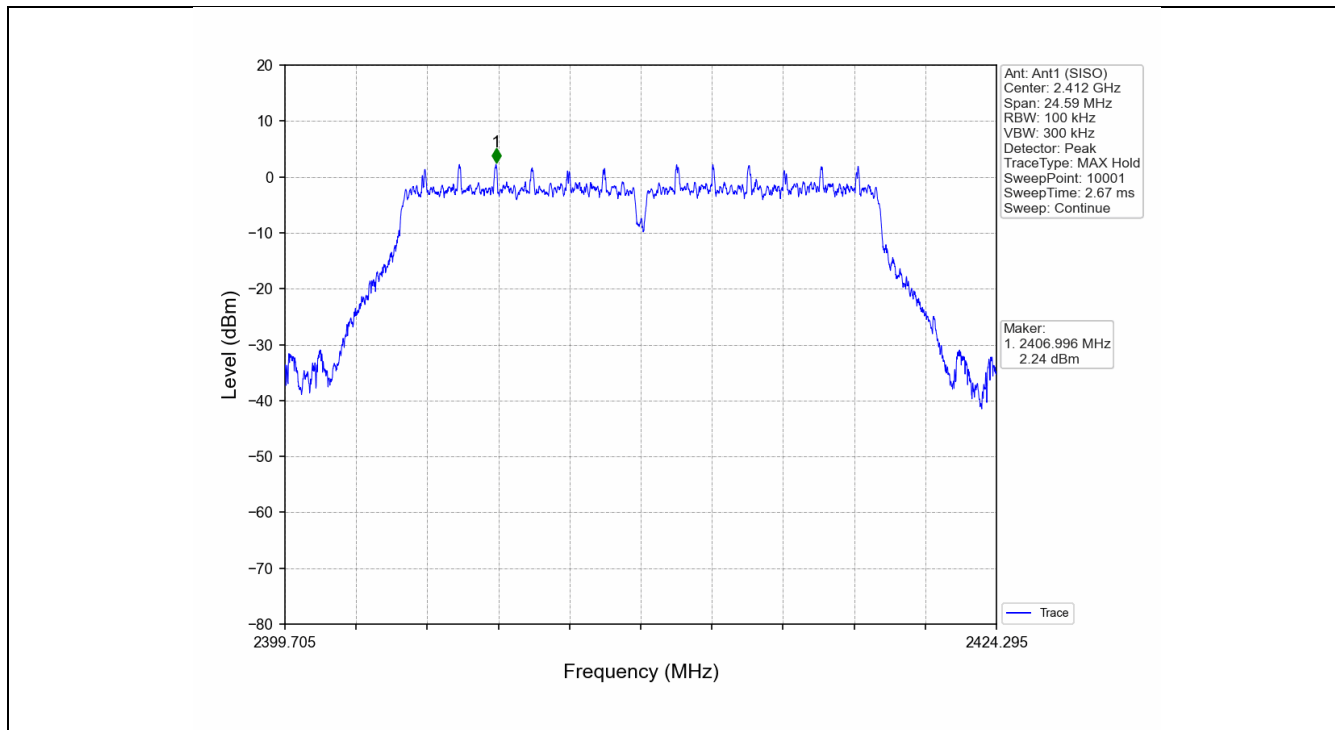
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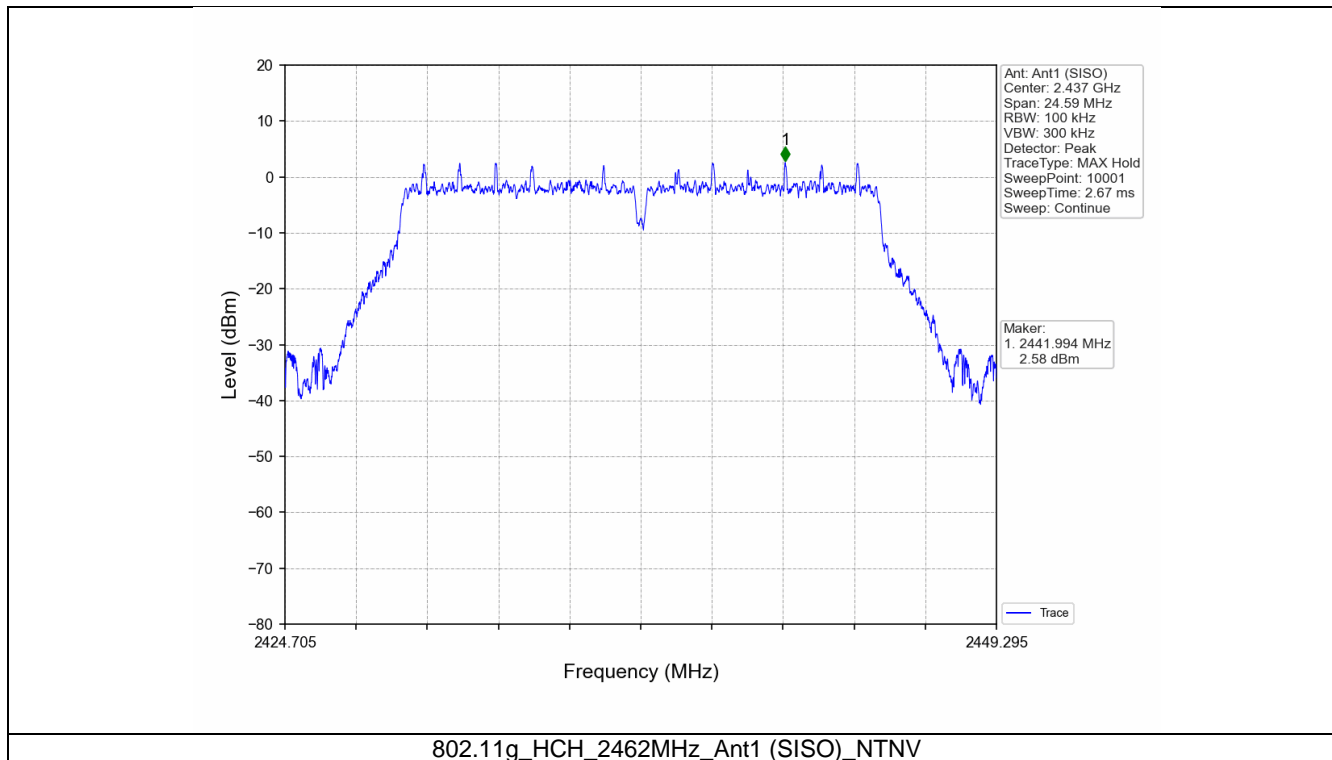


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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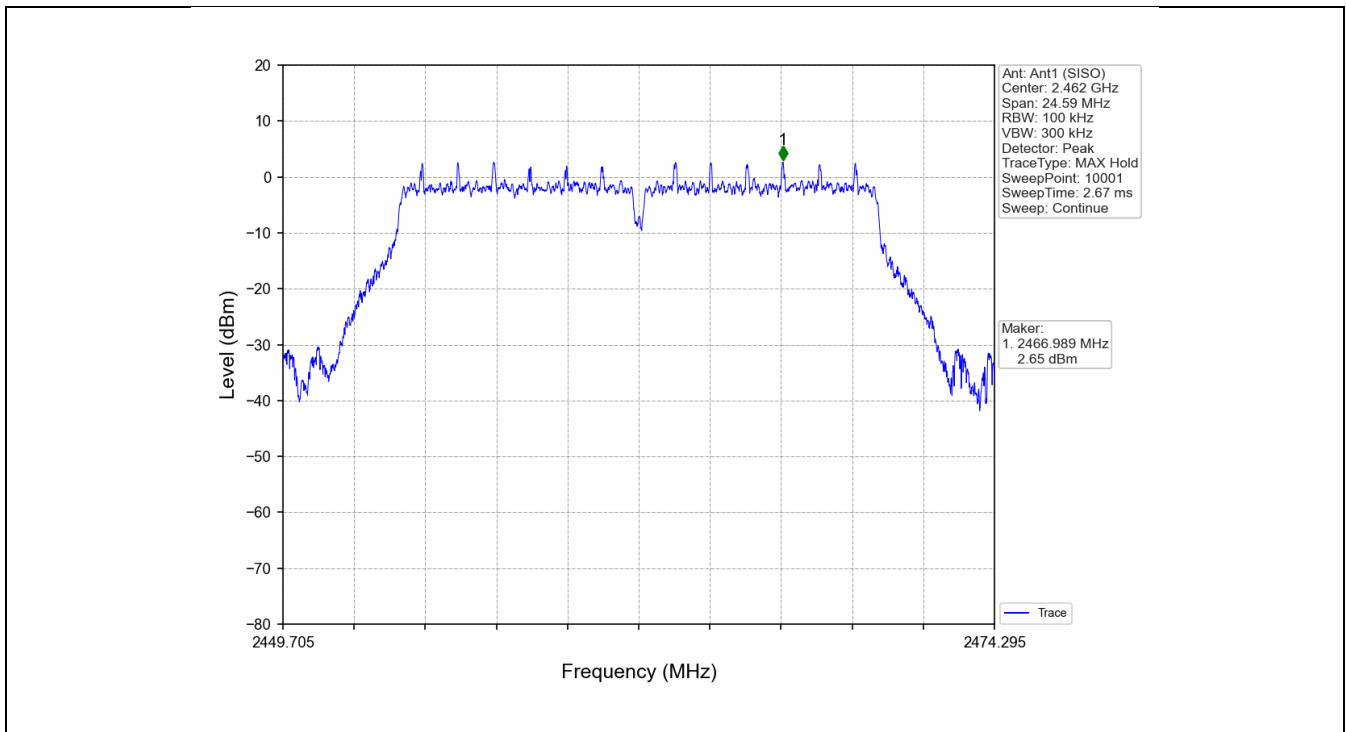
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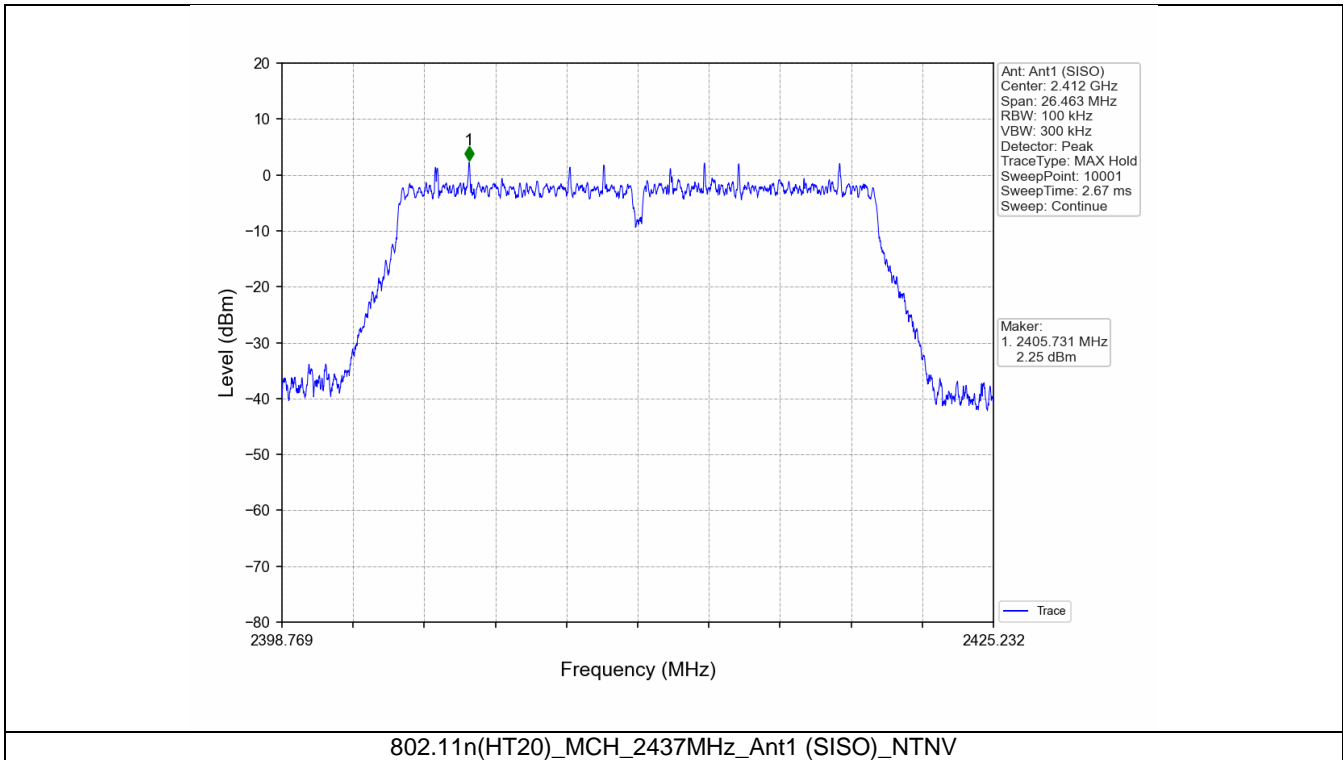
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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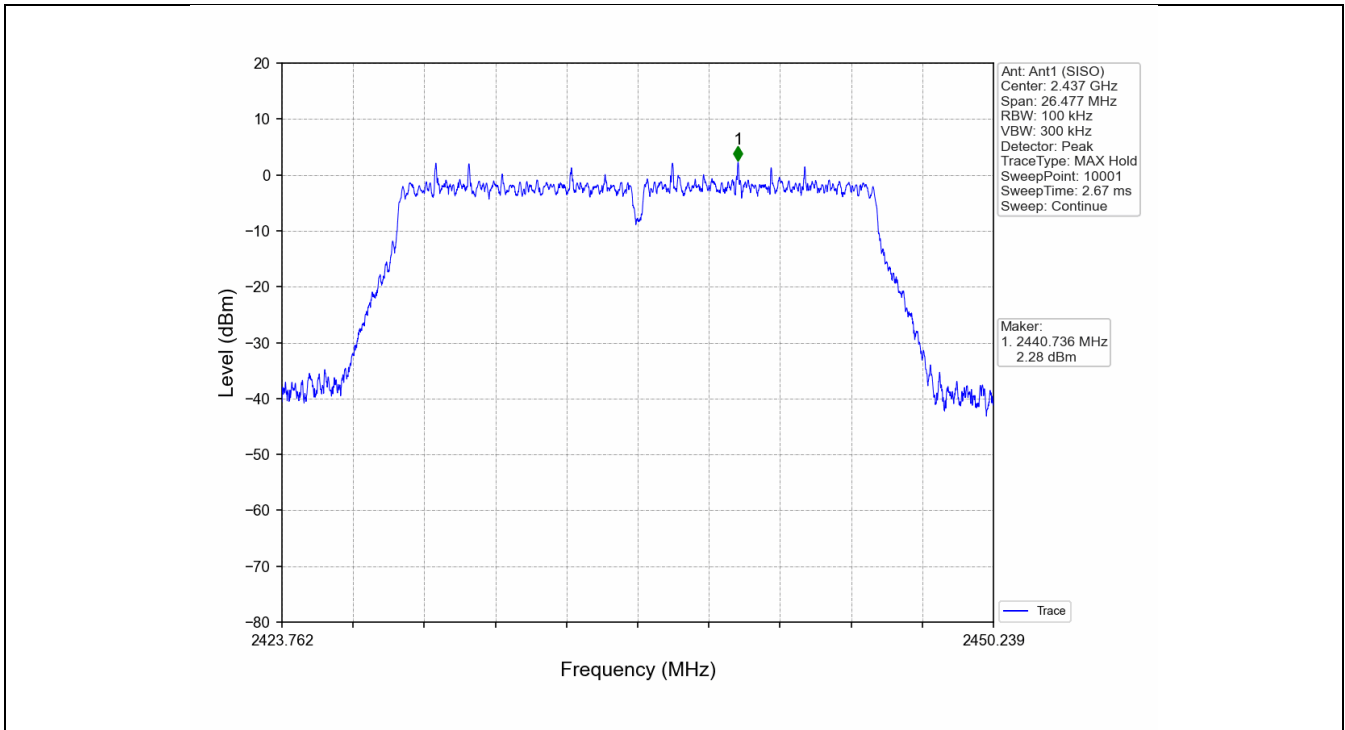
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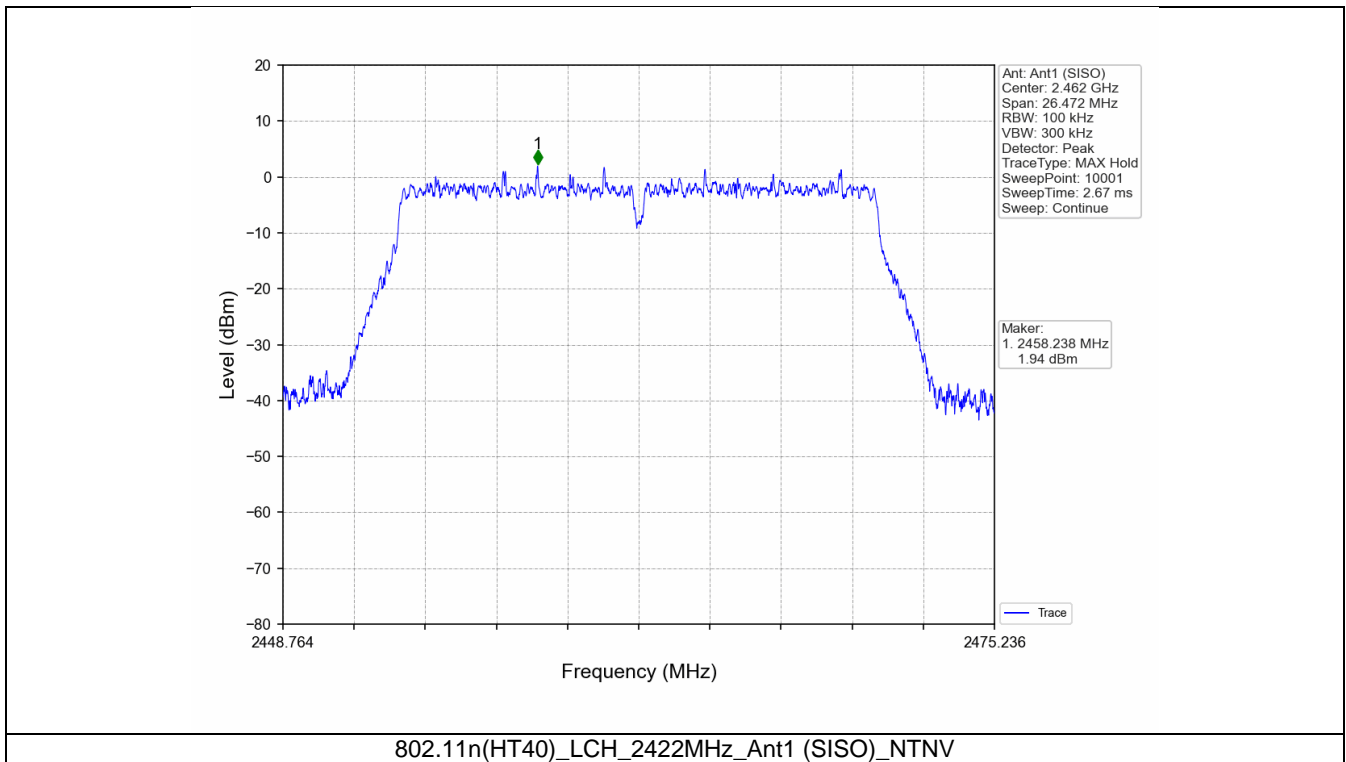


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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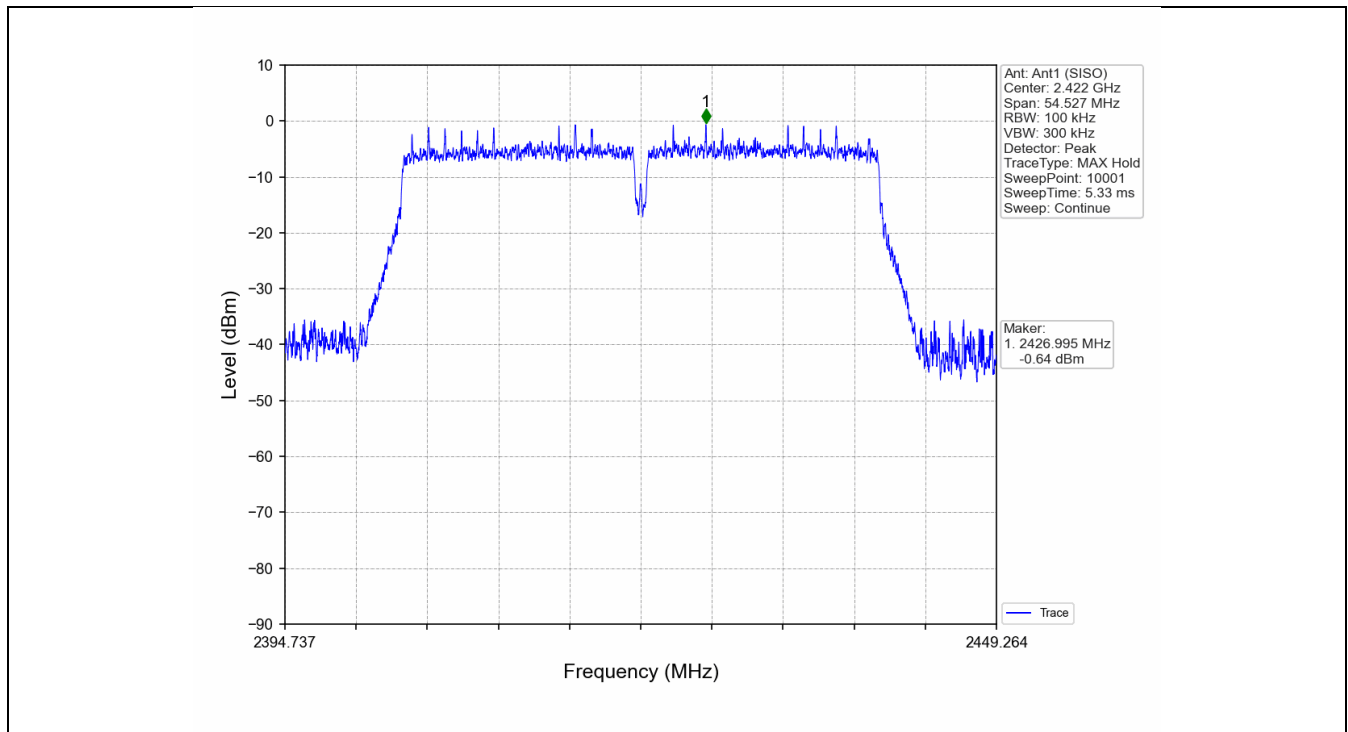
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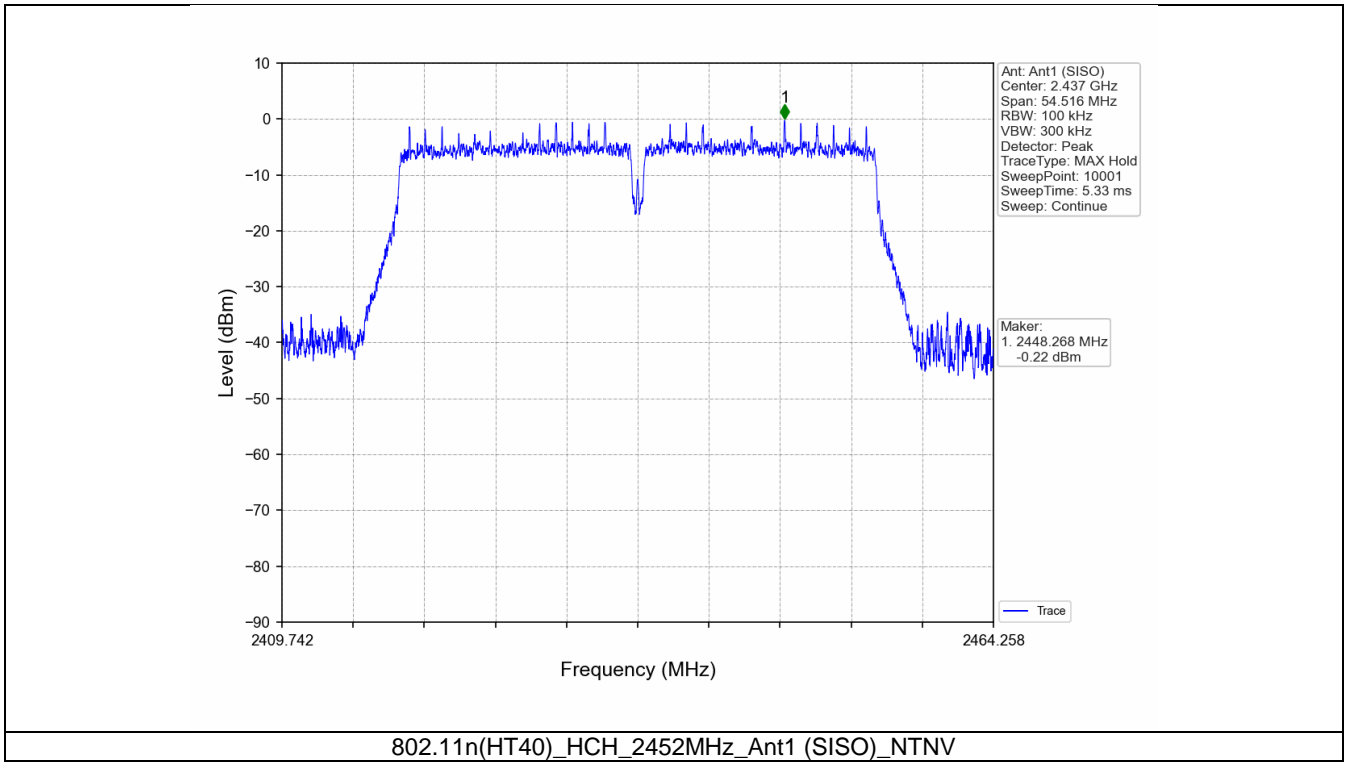
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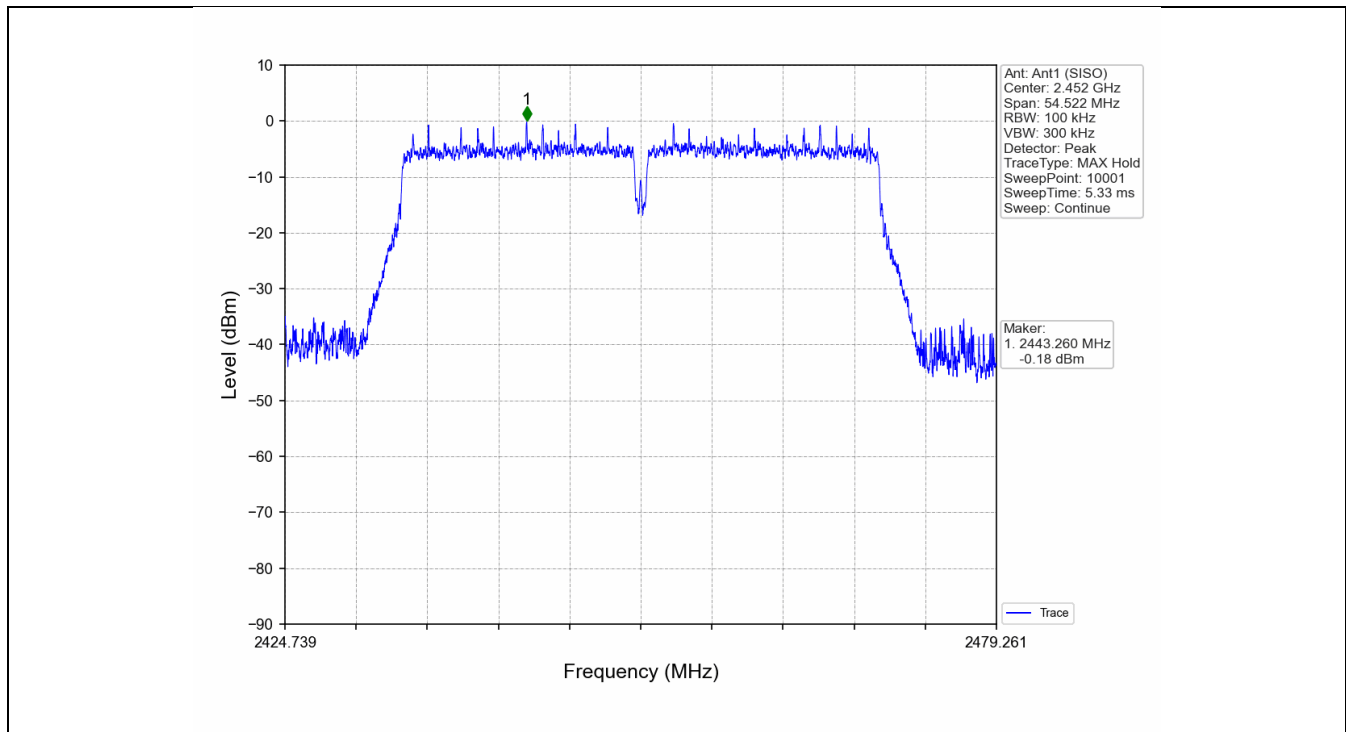
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	6.23	-23.77	Pass
		2437	1	6.23	-23.77	Pass
		2462	1	6.23	-23.77	Pass
802.11g	SISO	2412	1	2.65	-27.35	Pass
		2437	1	2.65	-27.35	Pass
		2462	1	2.65	-27.35	Pass
802.11n (HT20)	SISO	2412	1	2.28	-27.72	Pass
		2437	1	2.28	-27.72	Pass
		2462	1	2.28	-27.72	Pass
802.11n (HT40)	SISO	2422	1	-0.18	-30.18	Pass
		2437	1	-0.18	-30.18	Pass
		2452	1	-0.18	-30.18	Pass

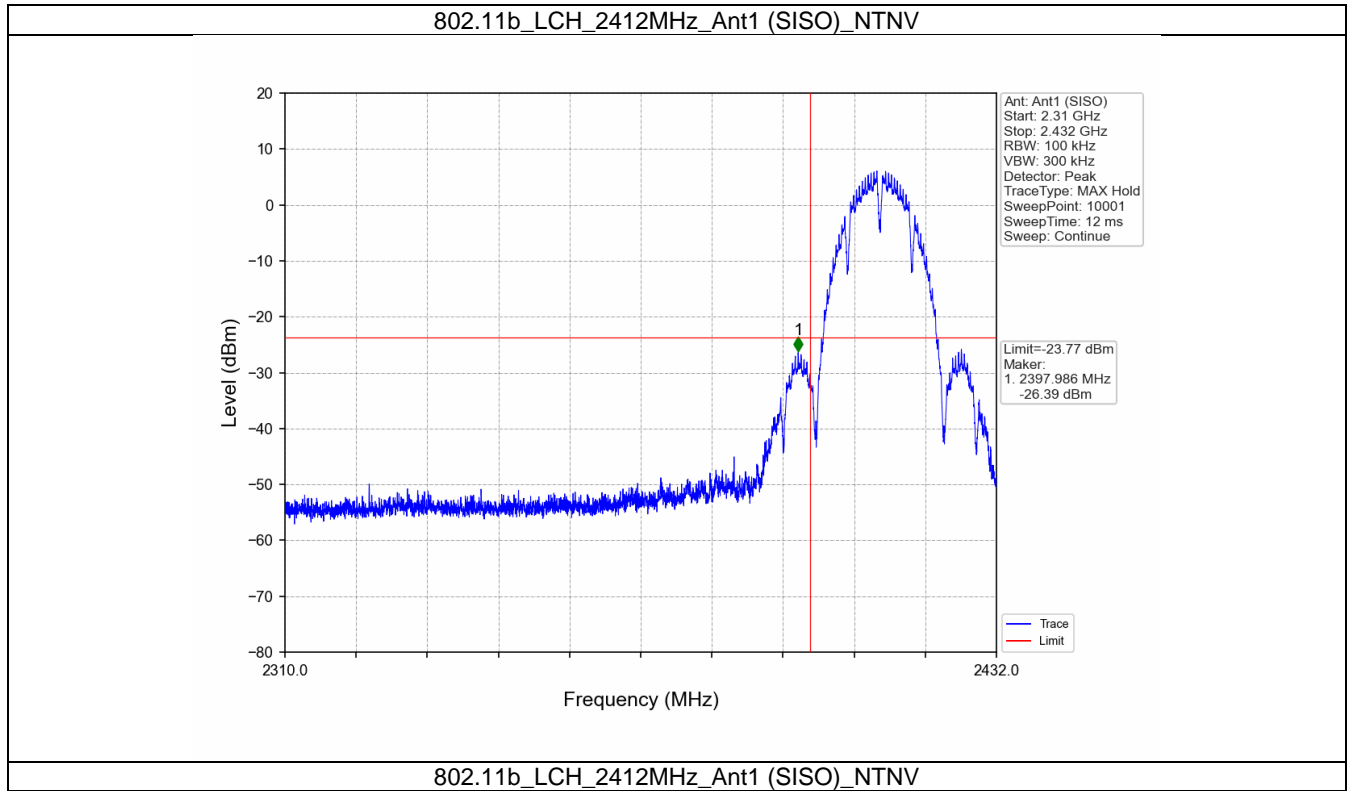
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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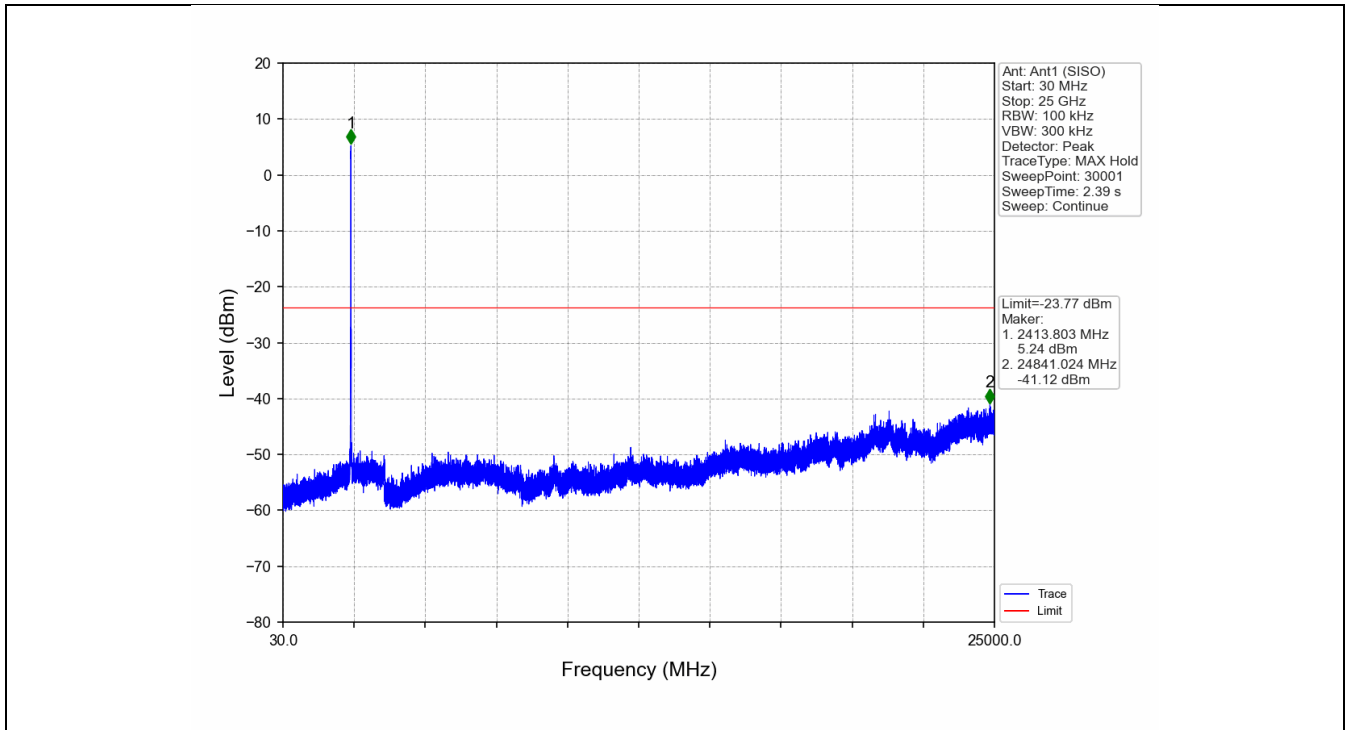
5.2.2 Test Graph



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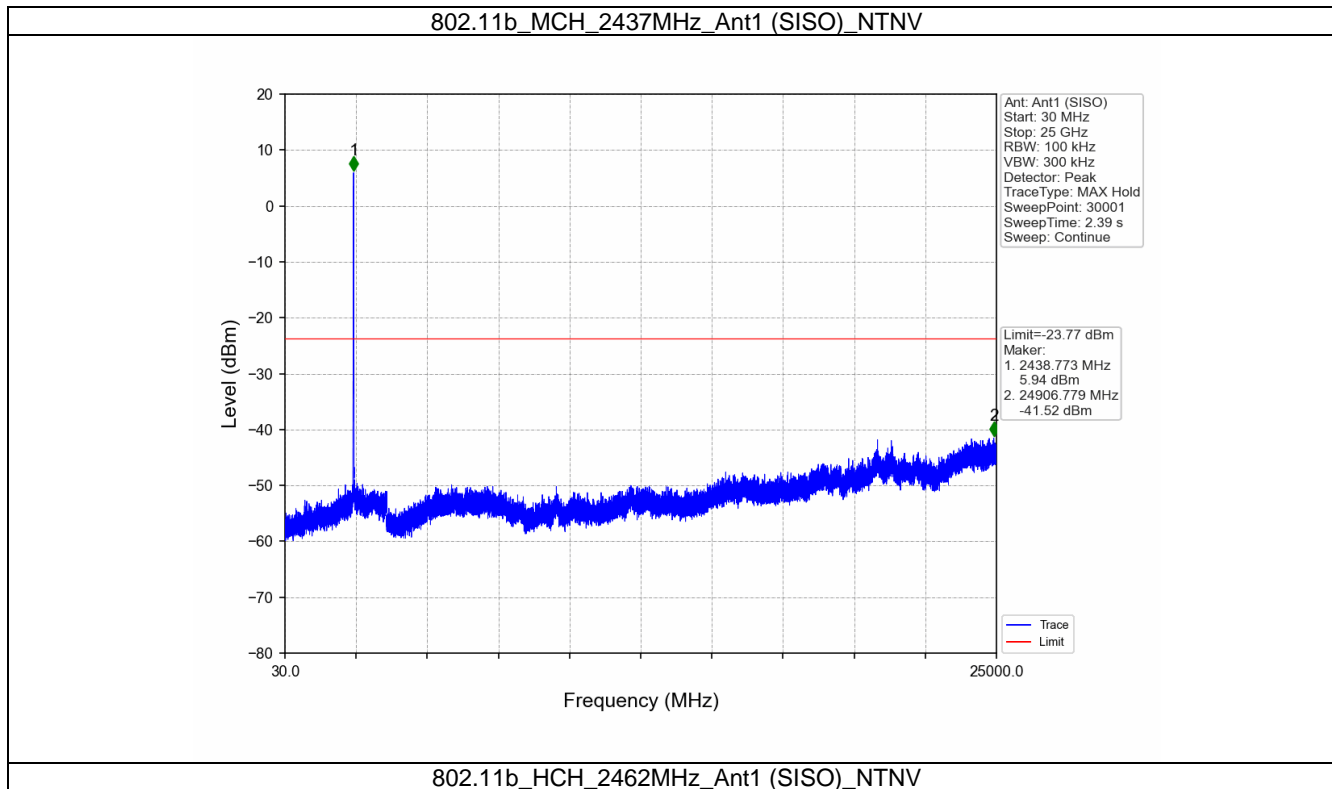
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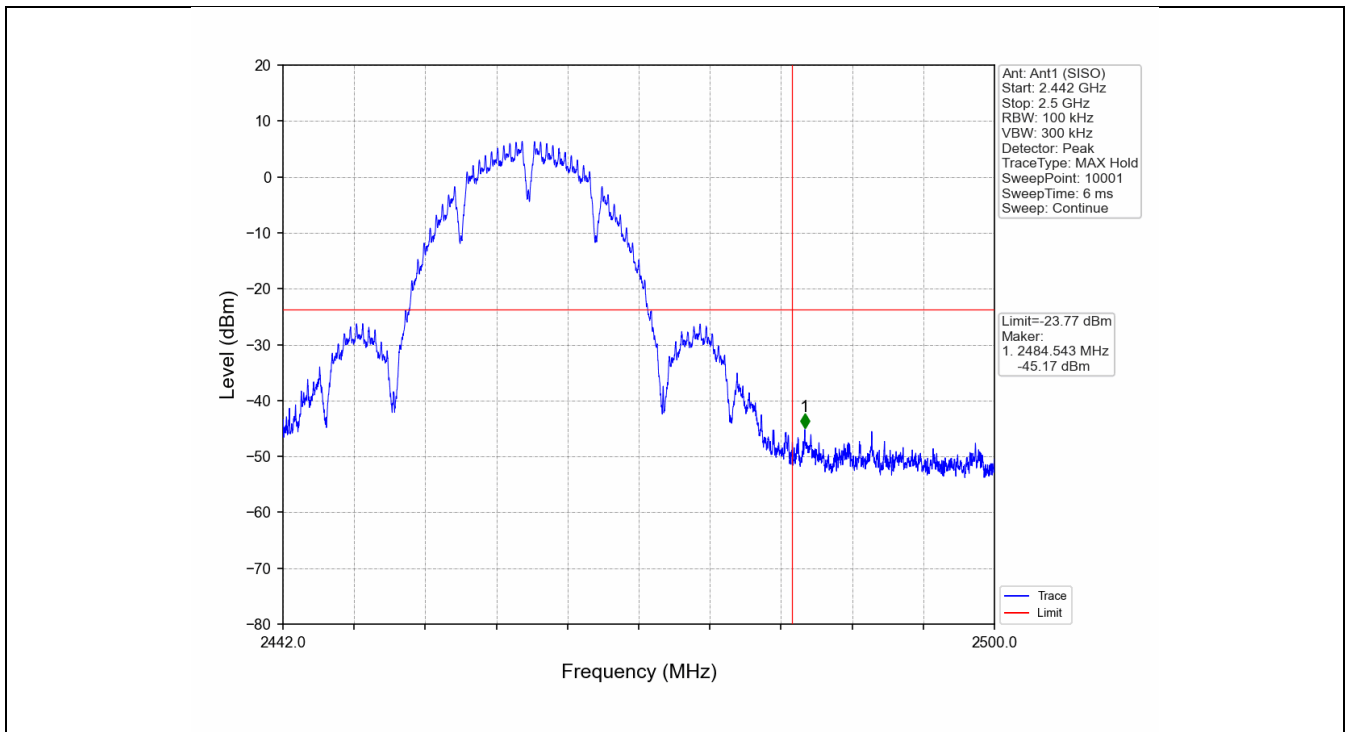
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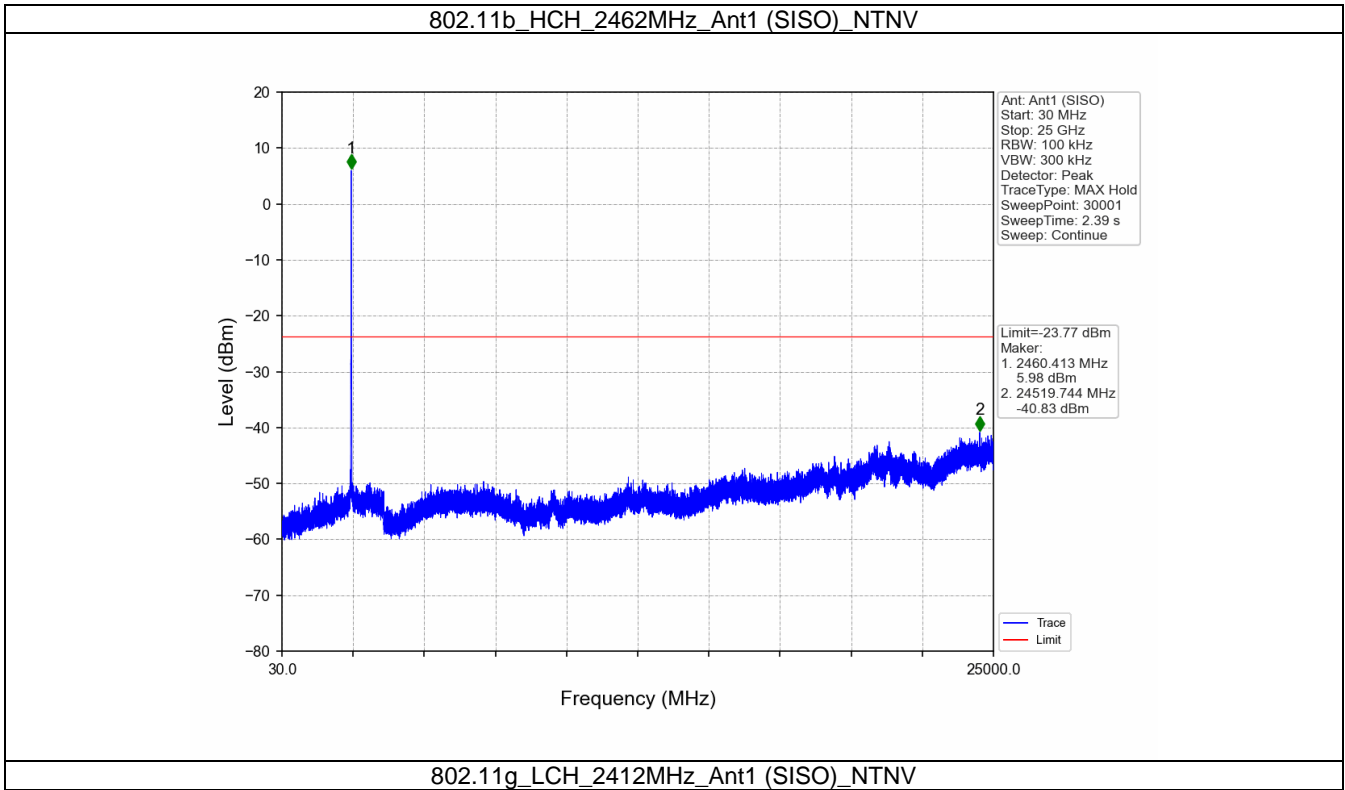
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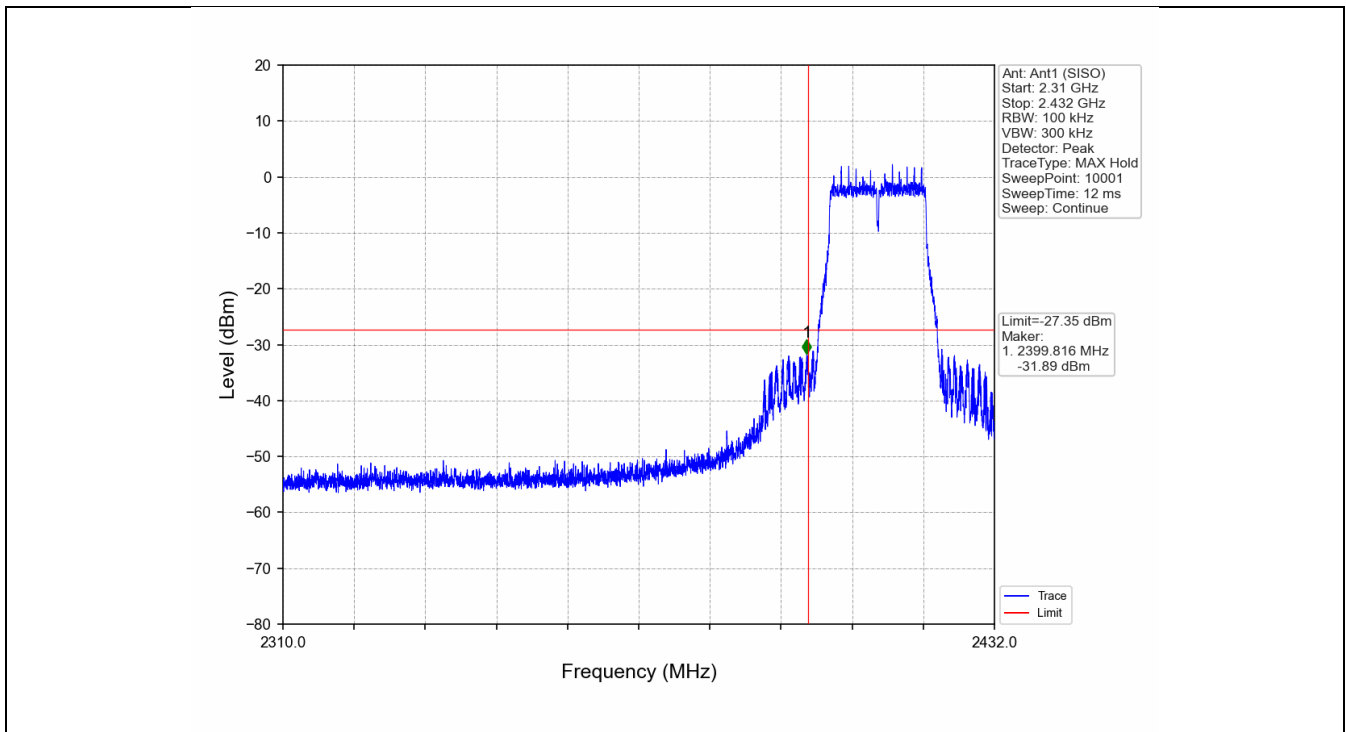
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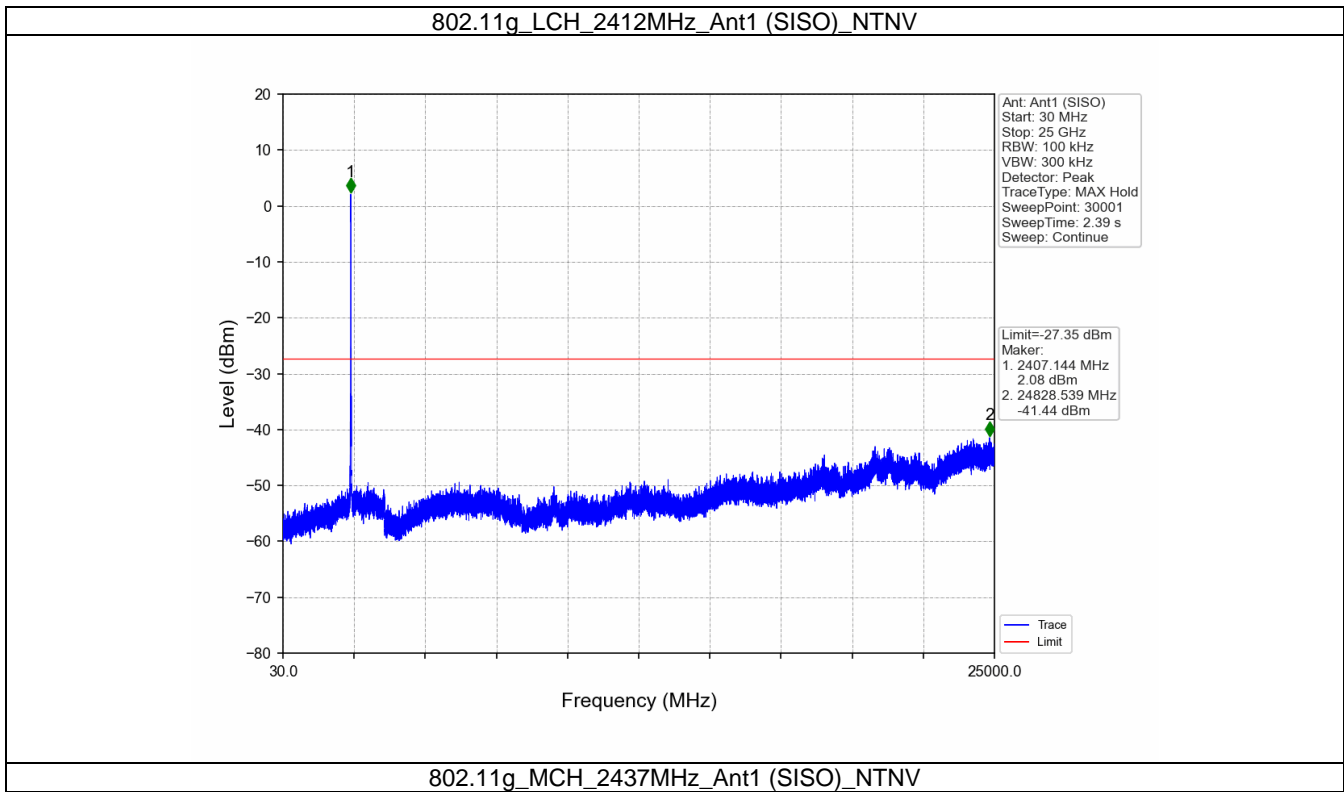
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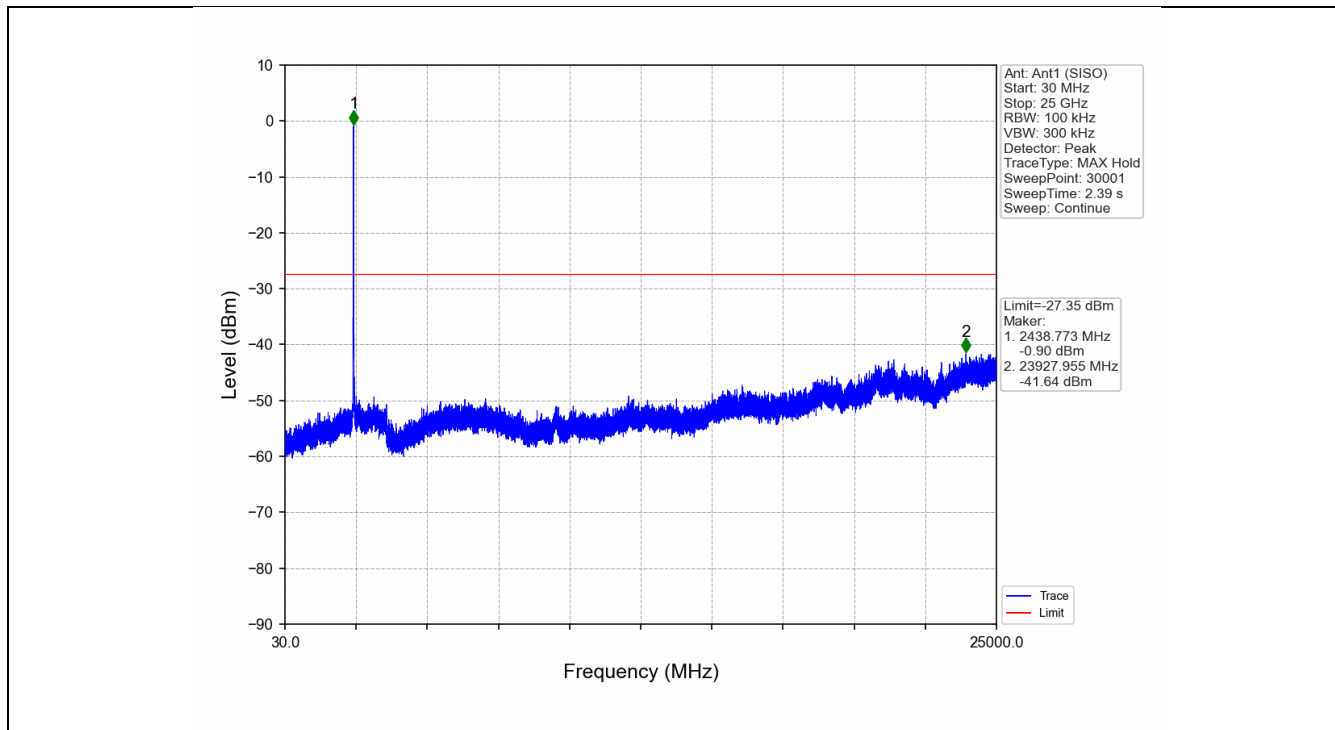
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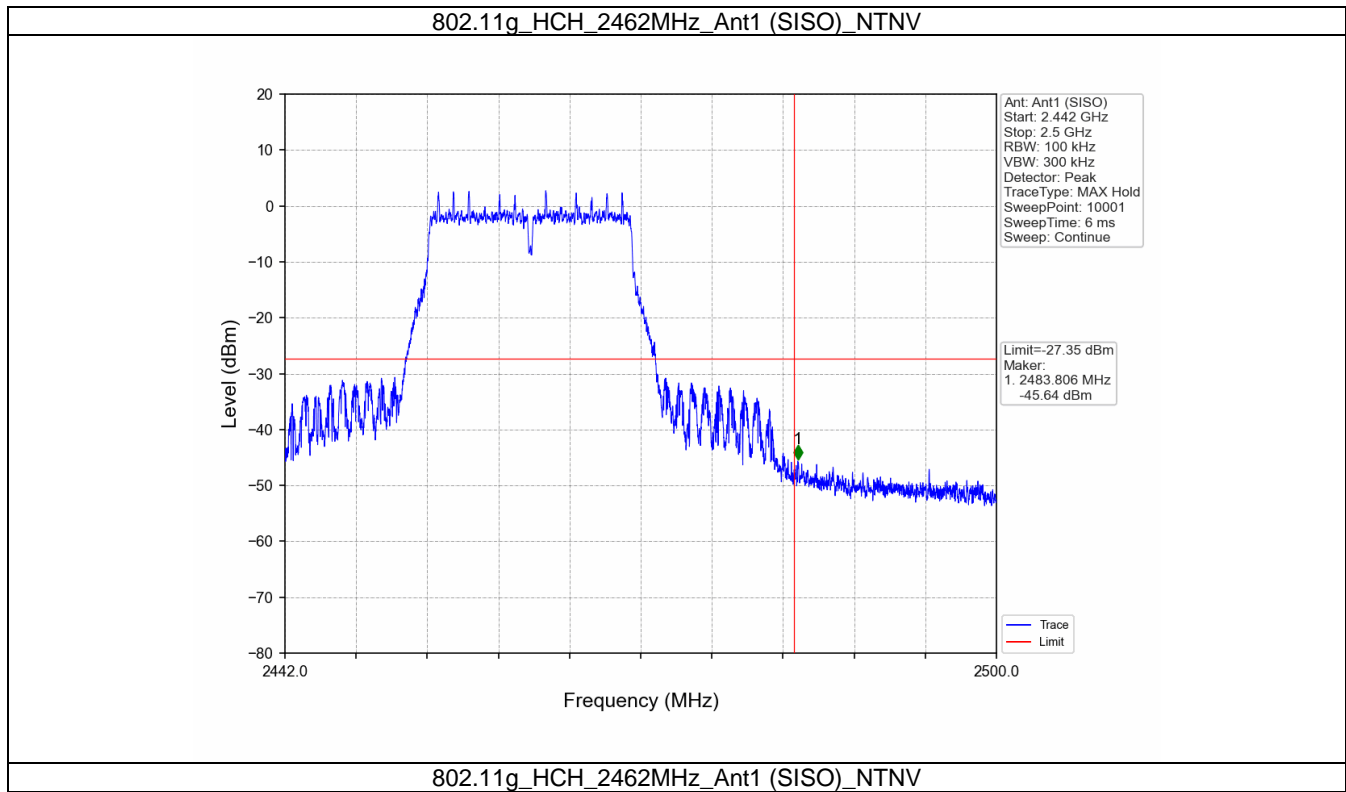
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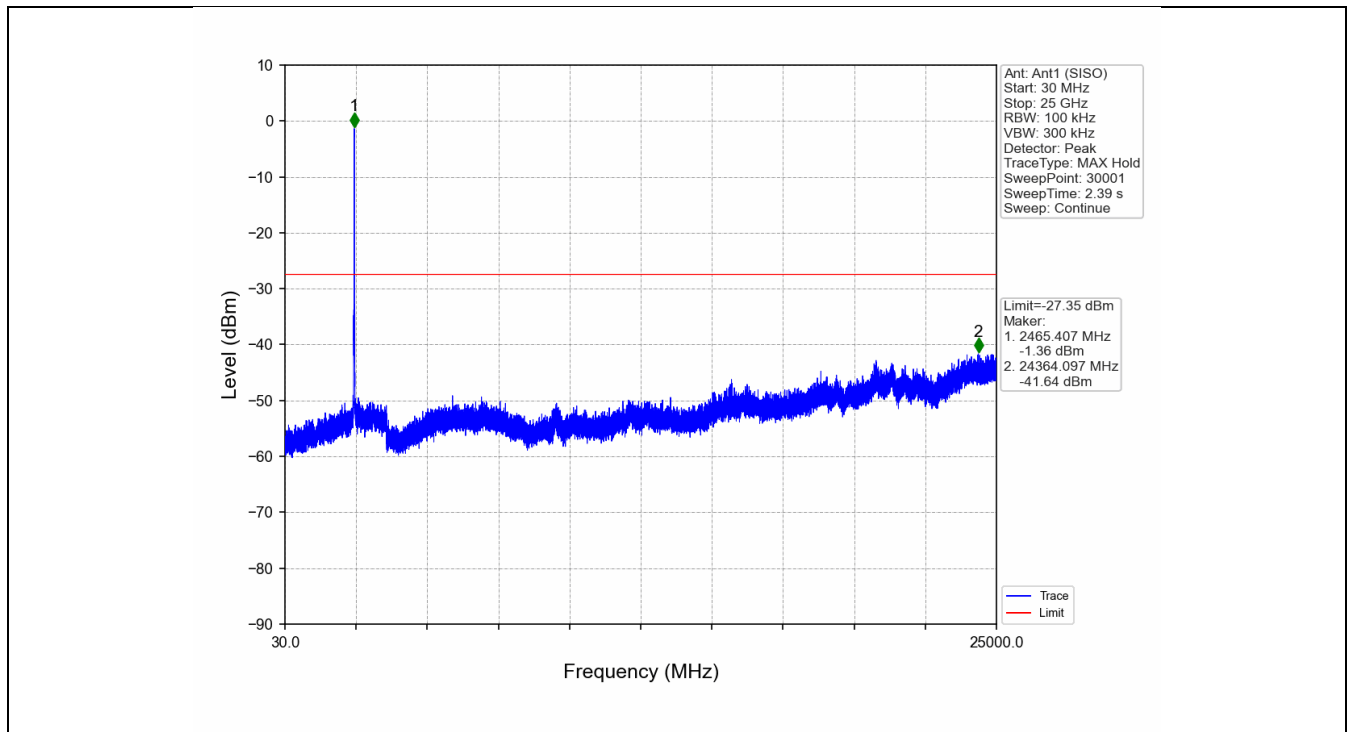
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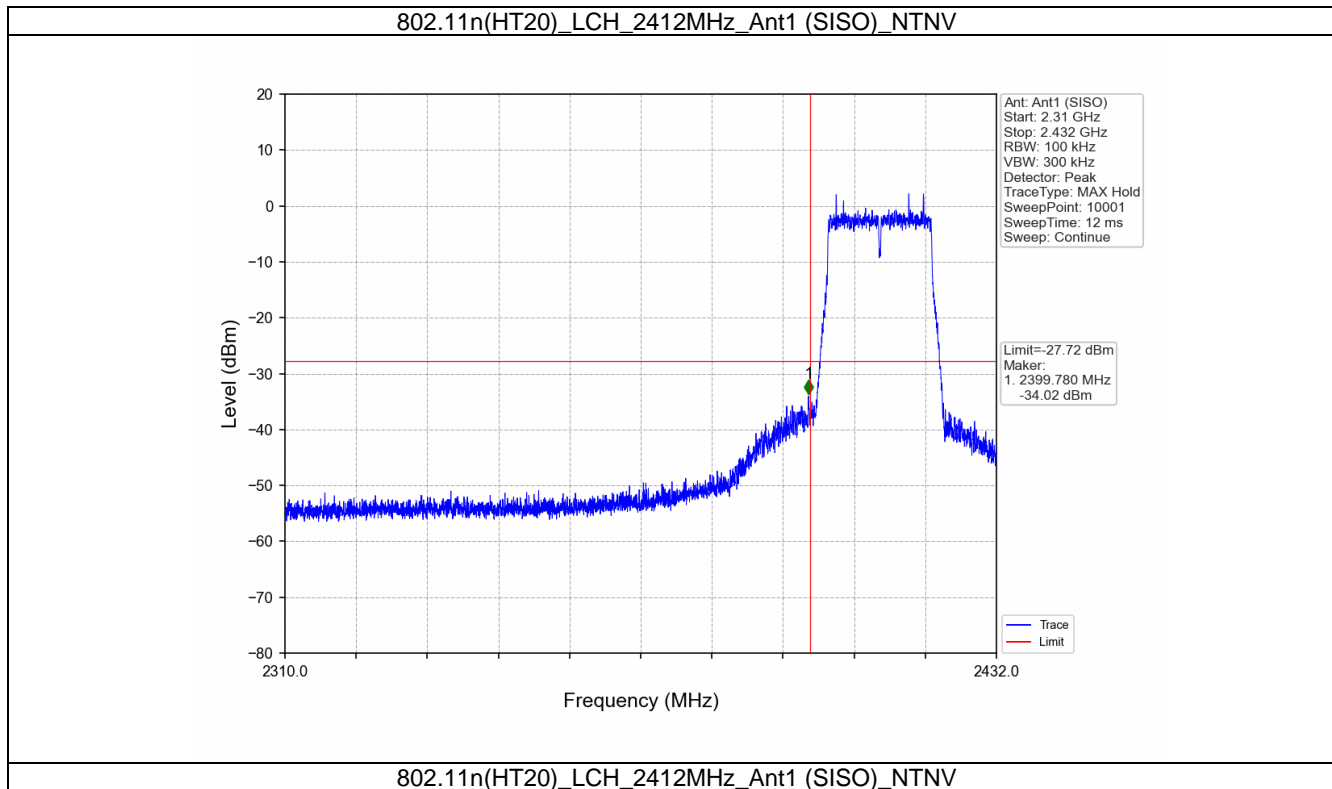
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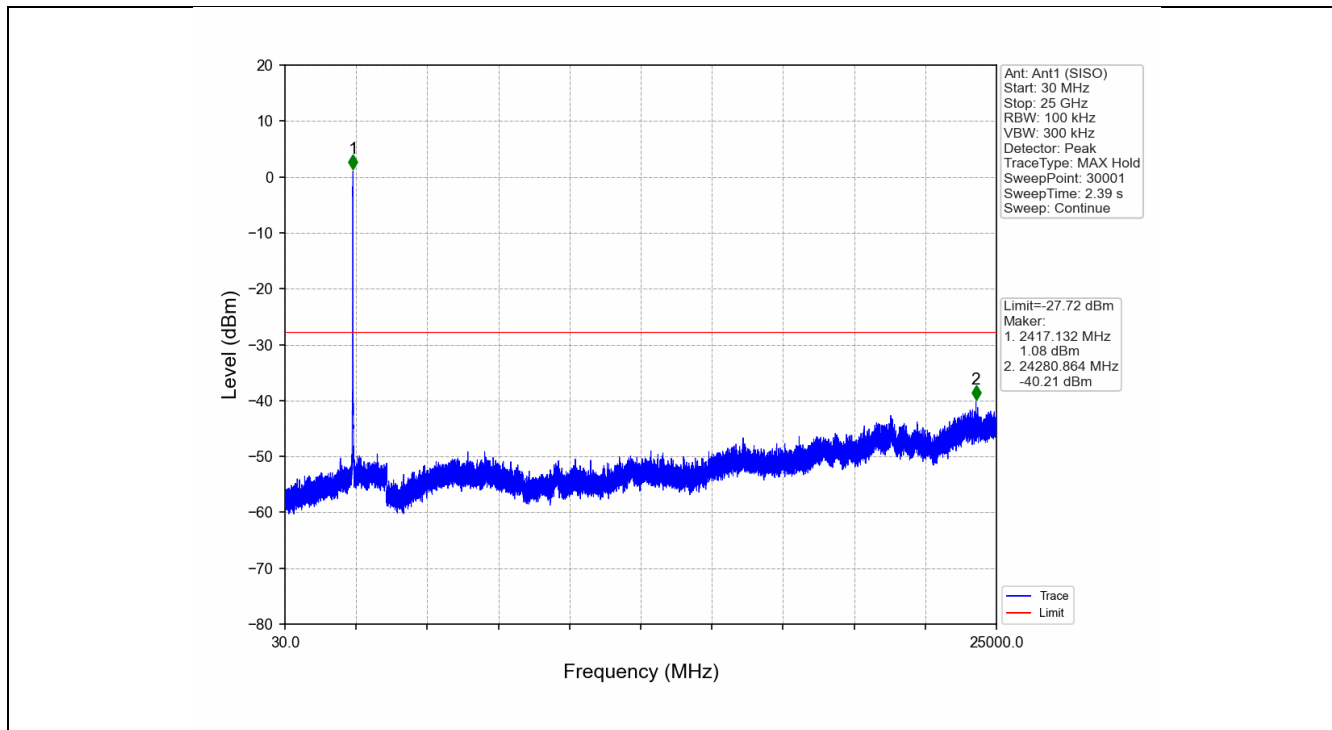
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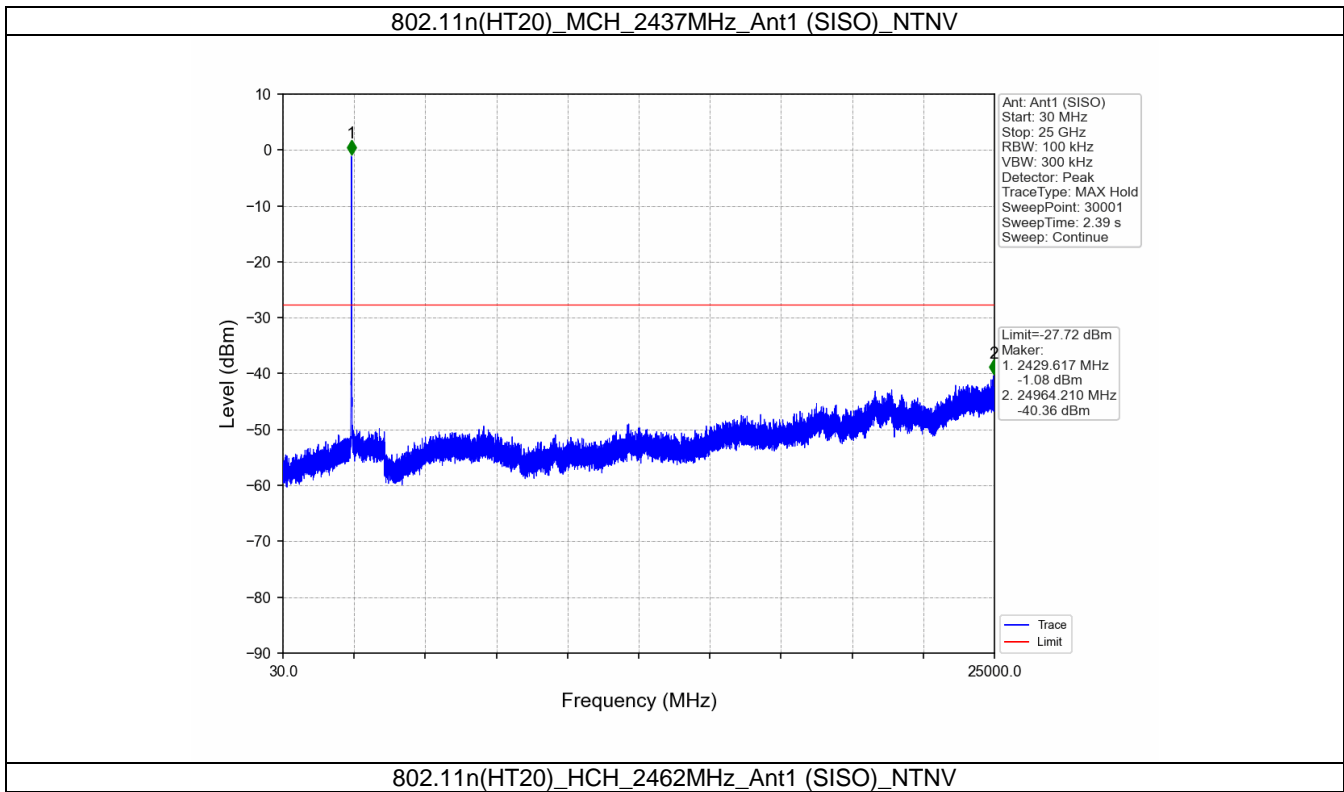
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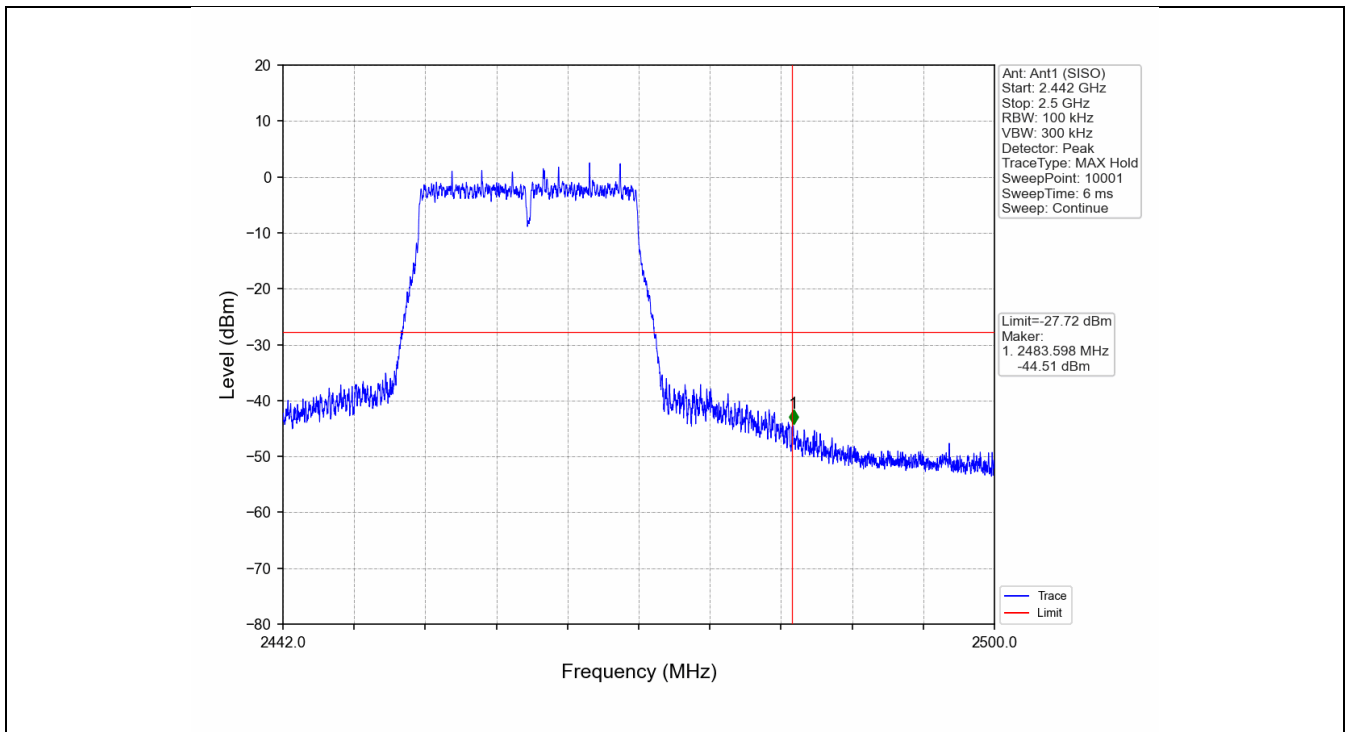
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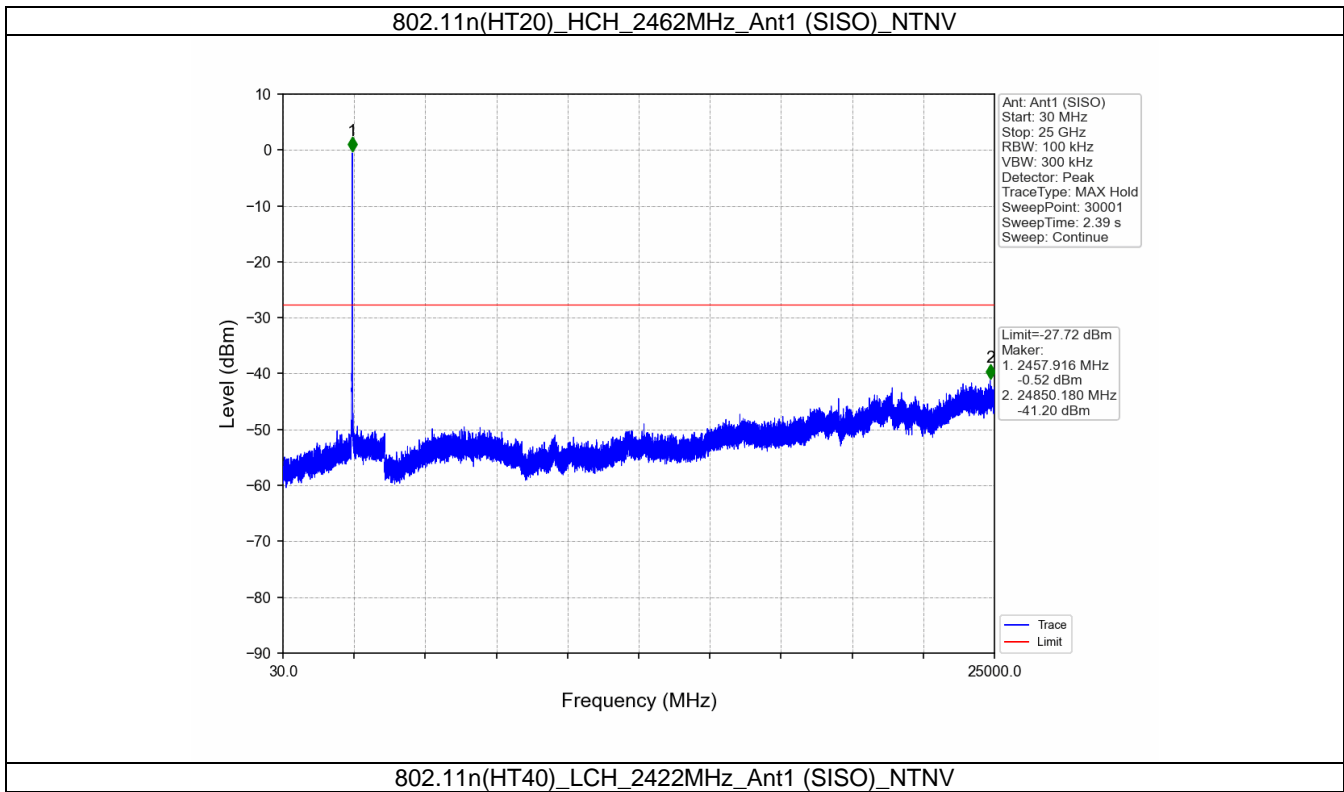
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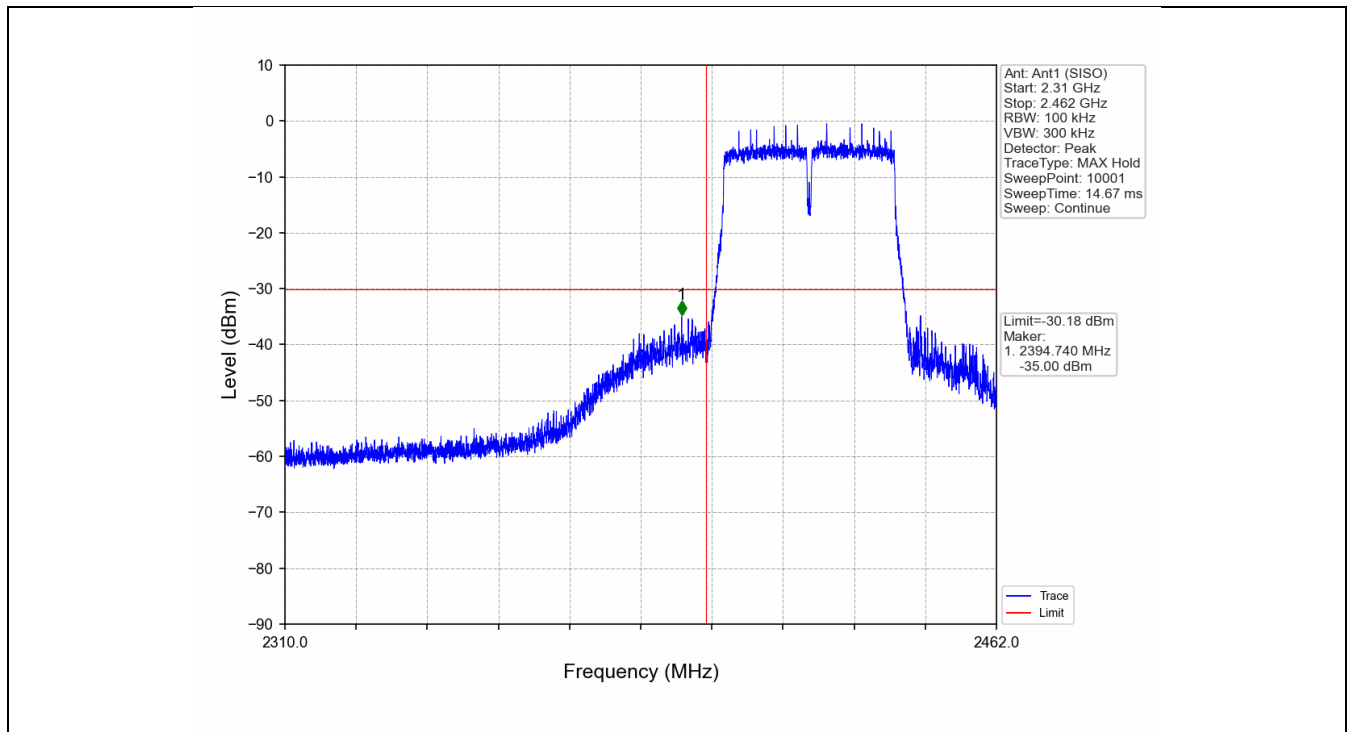
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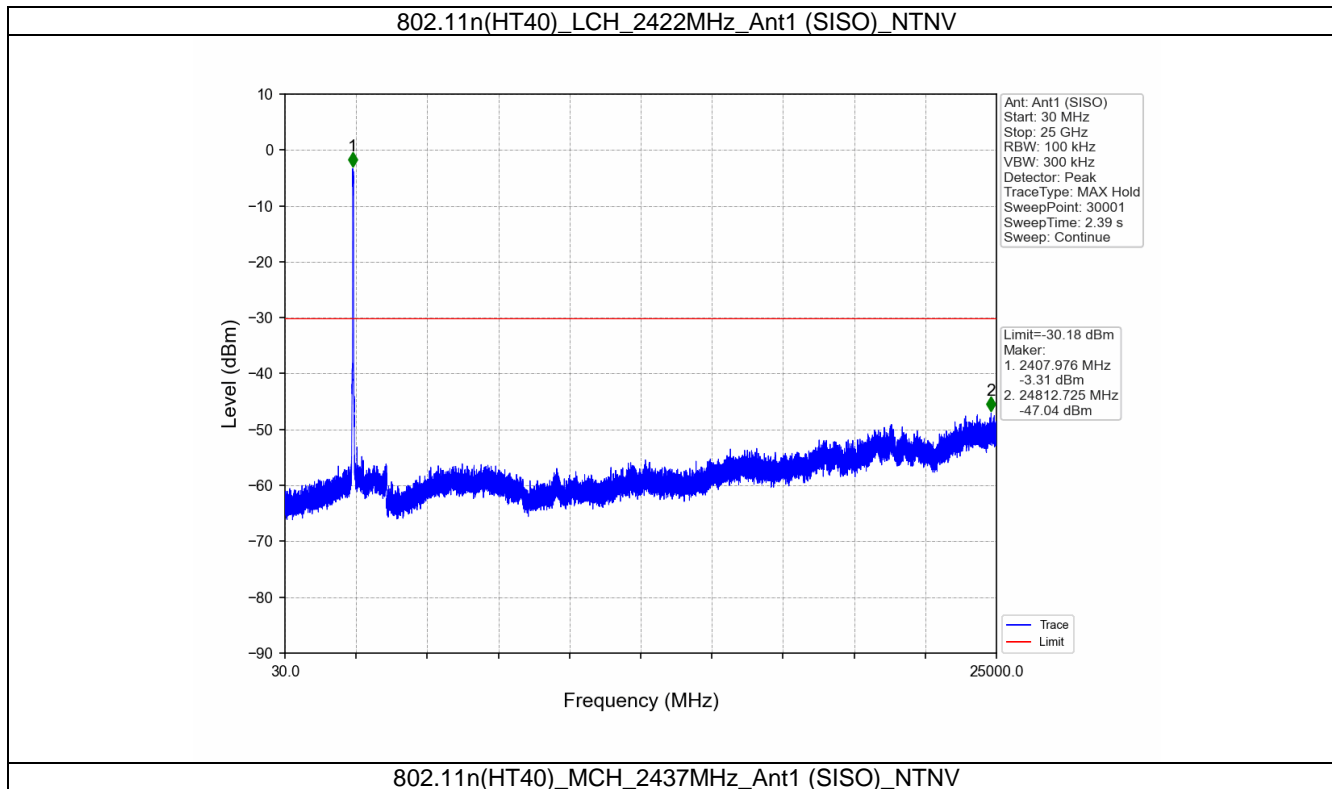
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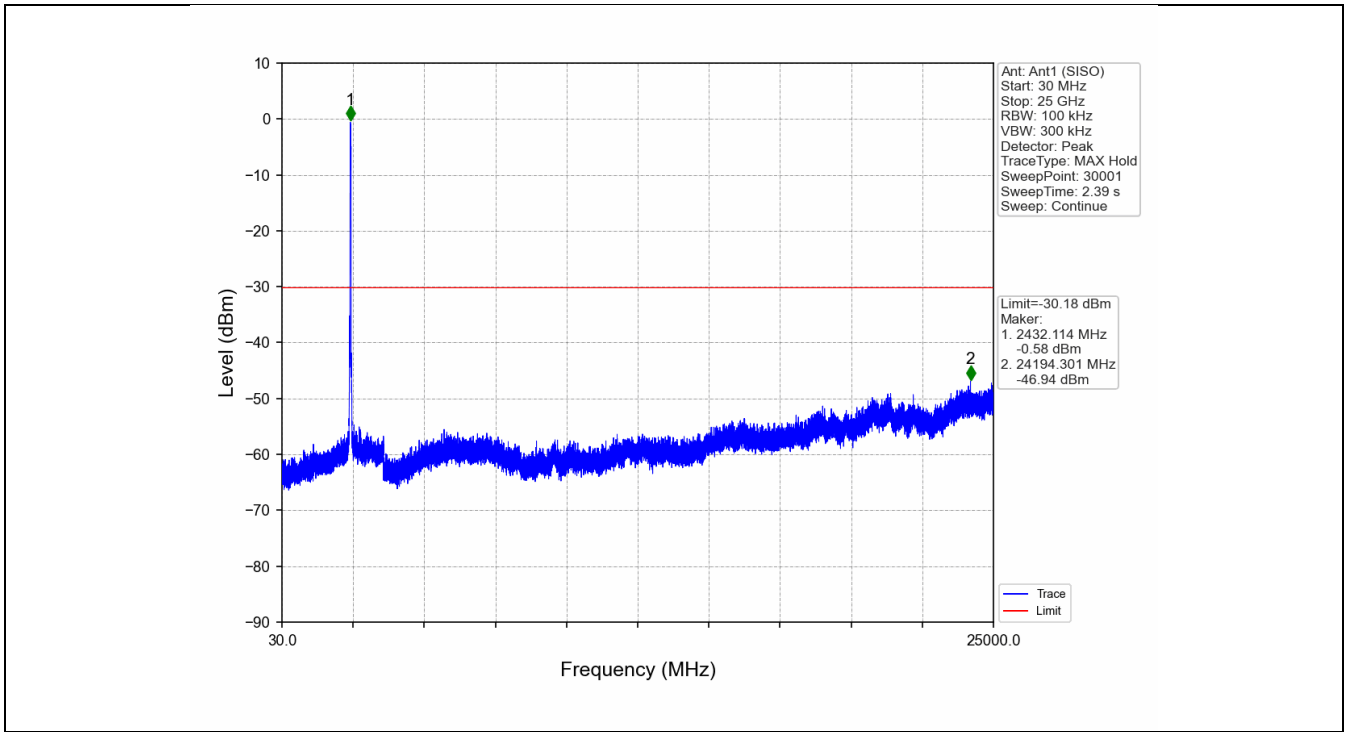
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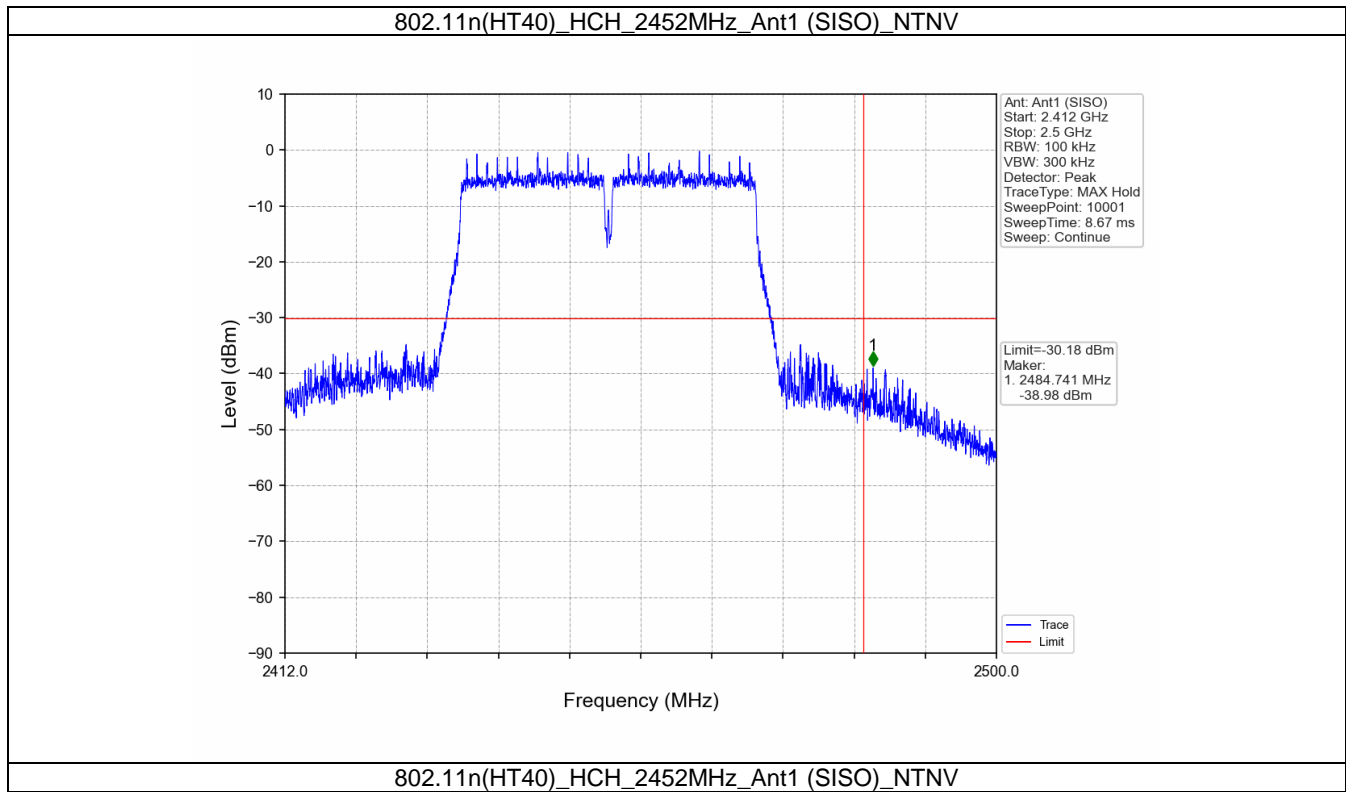
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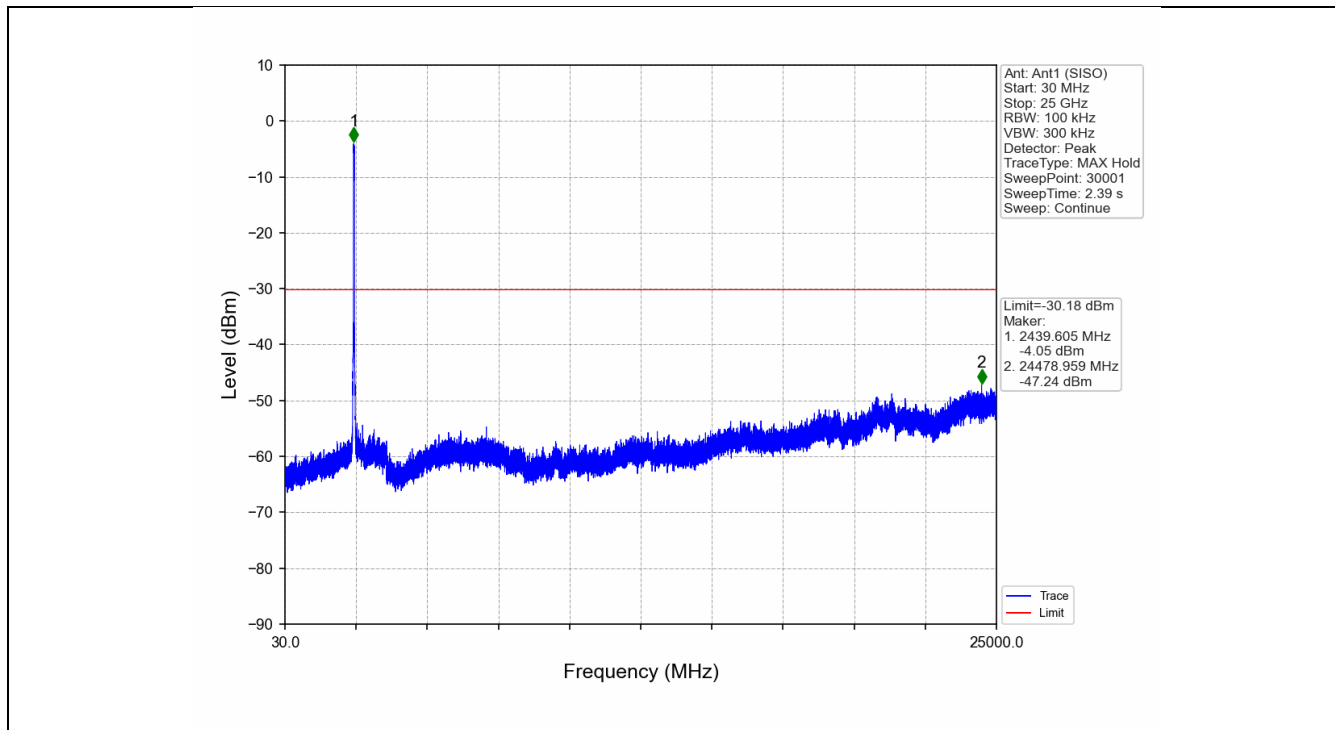
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