

Appendix A for KSEM210800132301

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	8.486	98.79	0.05	0.00
		2437	8.377	8.487	98.70	0.06	0.04
		2462	8.377	8.487	98.70	0.06	0.00
802.11g	SISO	2412	1.726	1.834	94.11	0.26	0.03
		2437	1.727	1.834	94.17	0.26	0.03
		2462	1.727	1.834	94.17	0.26	0.03
802.11n (HT20)	SISO	2412	1.732	1.834	94.44	0.25	0.03
		2437	1.611	1.717	93.83	0.28	0.00
		2462	1.612	1.718	93.83	0.28	0.00
802.11n (HT40)	SISO	2422	0.795	0.903	88.04	0.55	0.03
		2437	0.800	0.903	88.59	0.53	0.03
		2452	0.795	0.902	88.14	0.55	0.00



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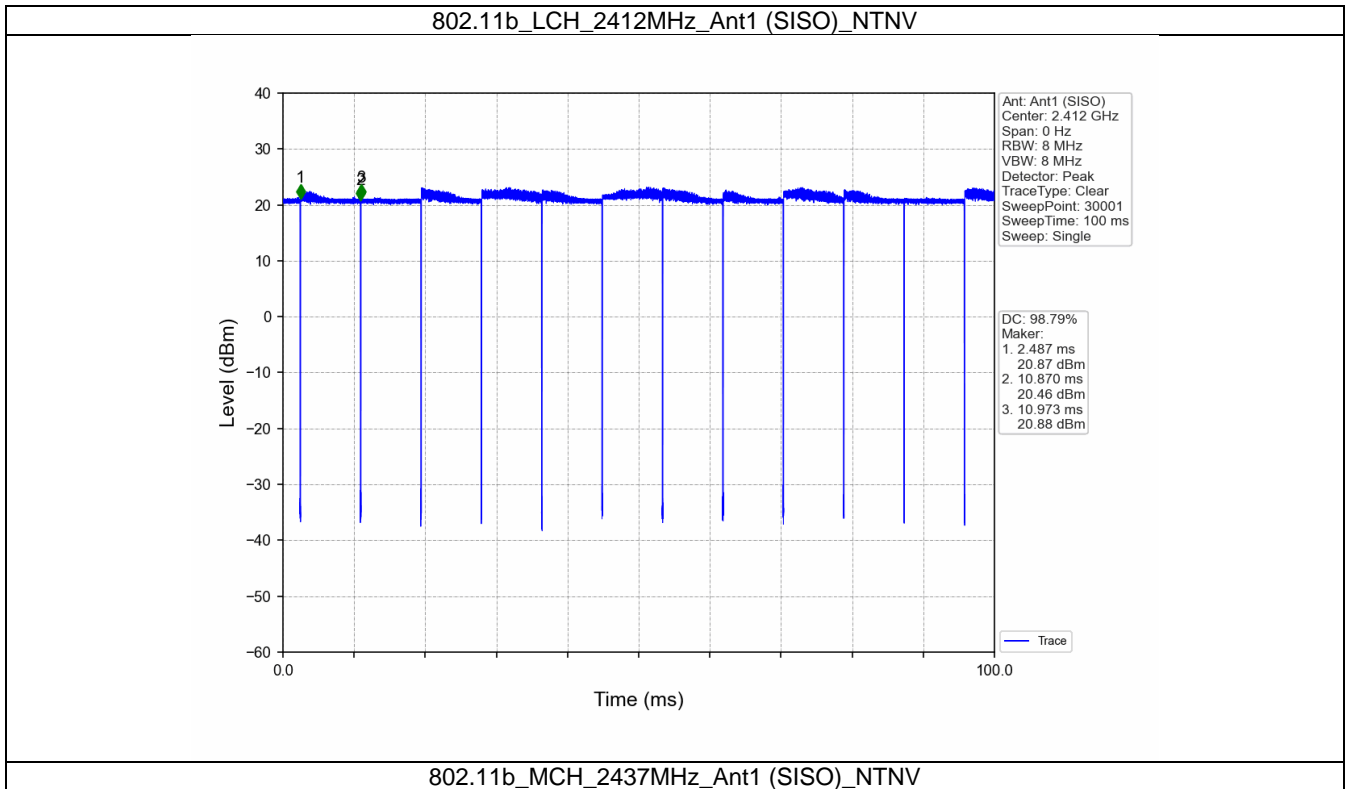
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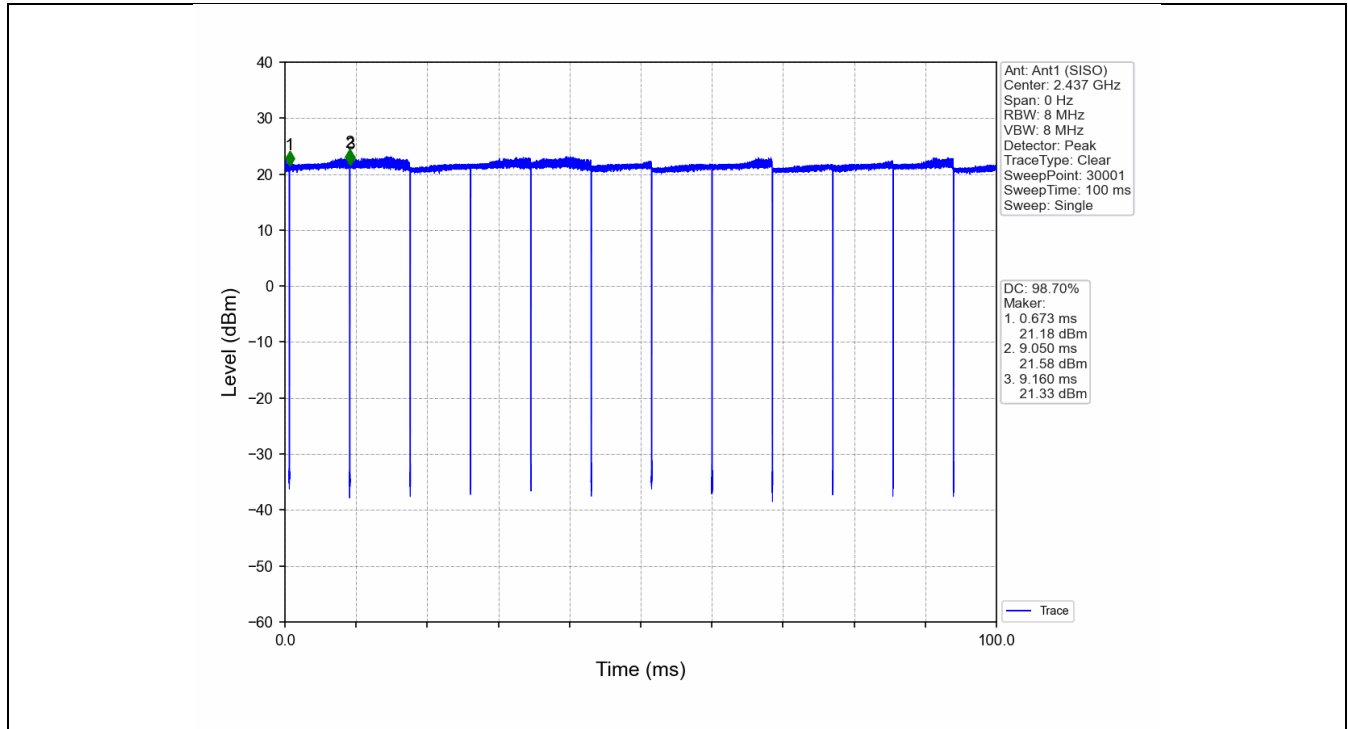
1.1.2 Test Graph



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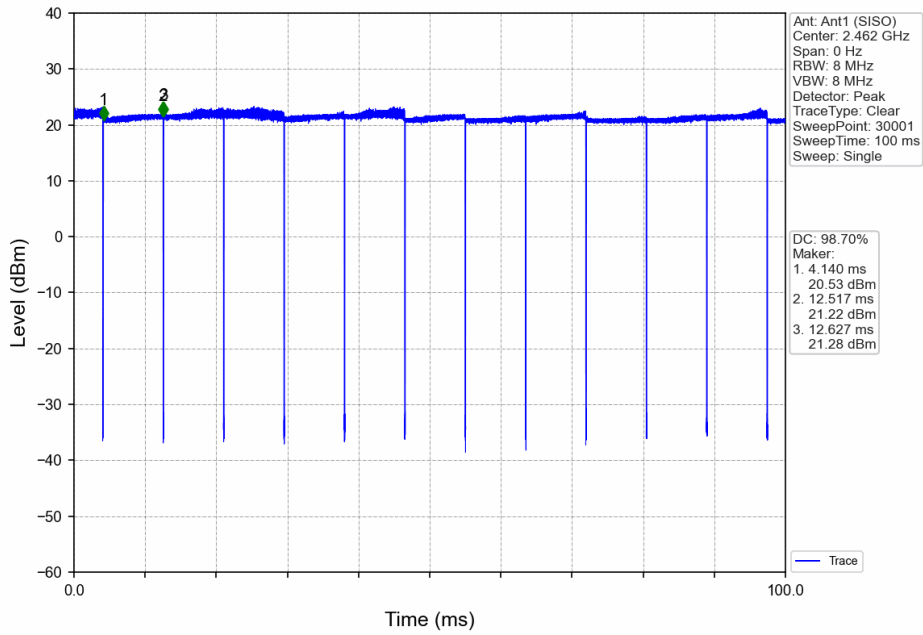
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

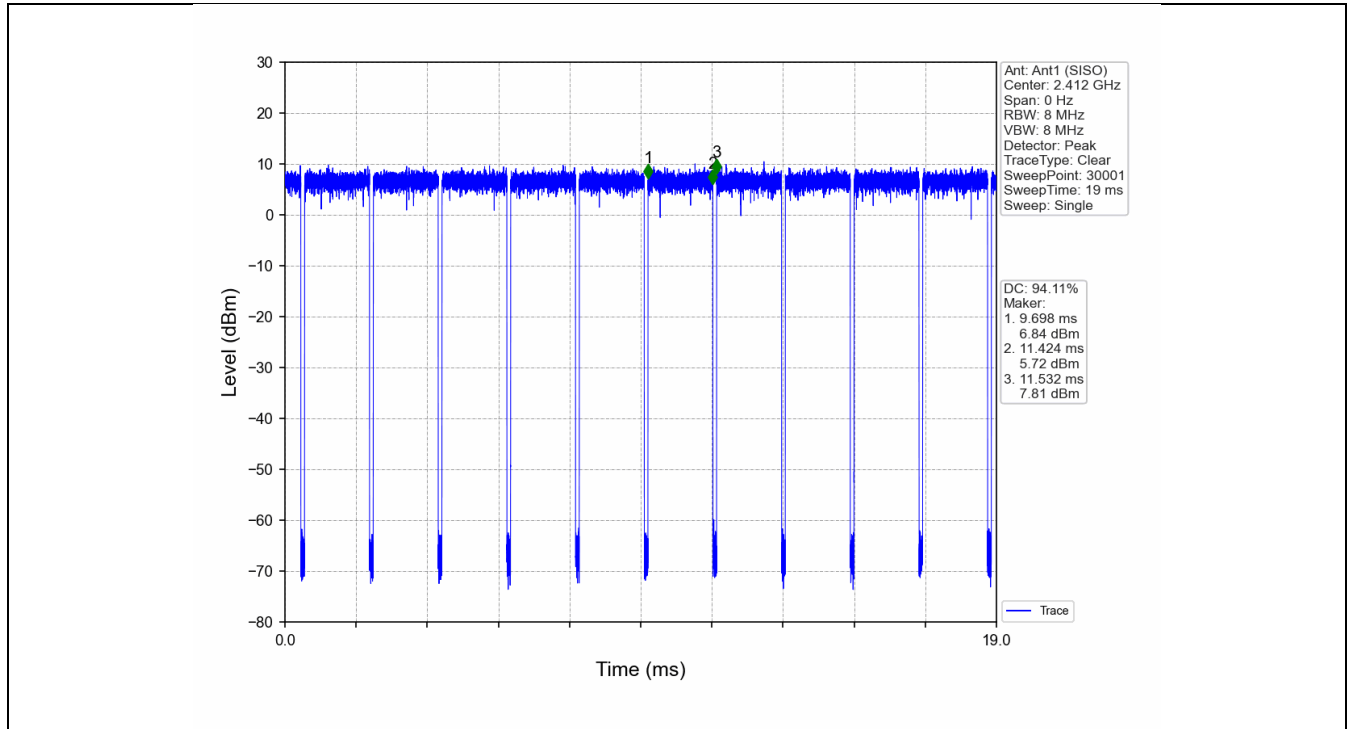


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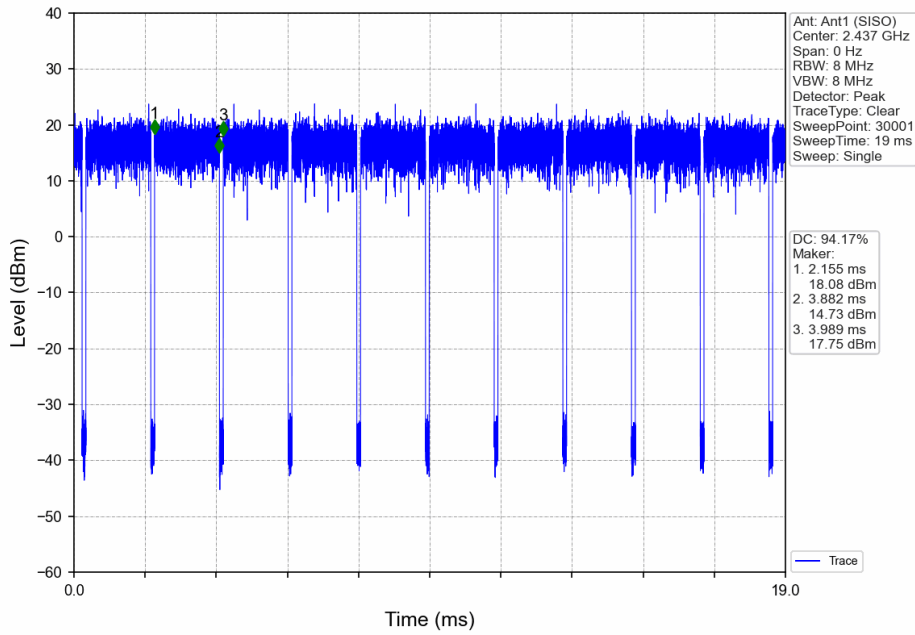


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

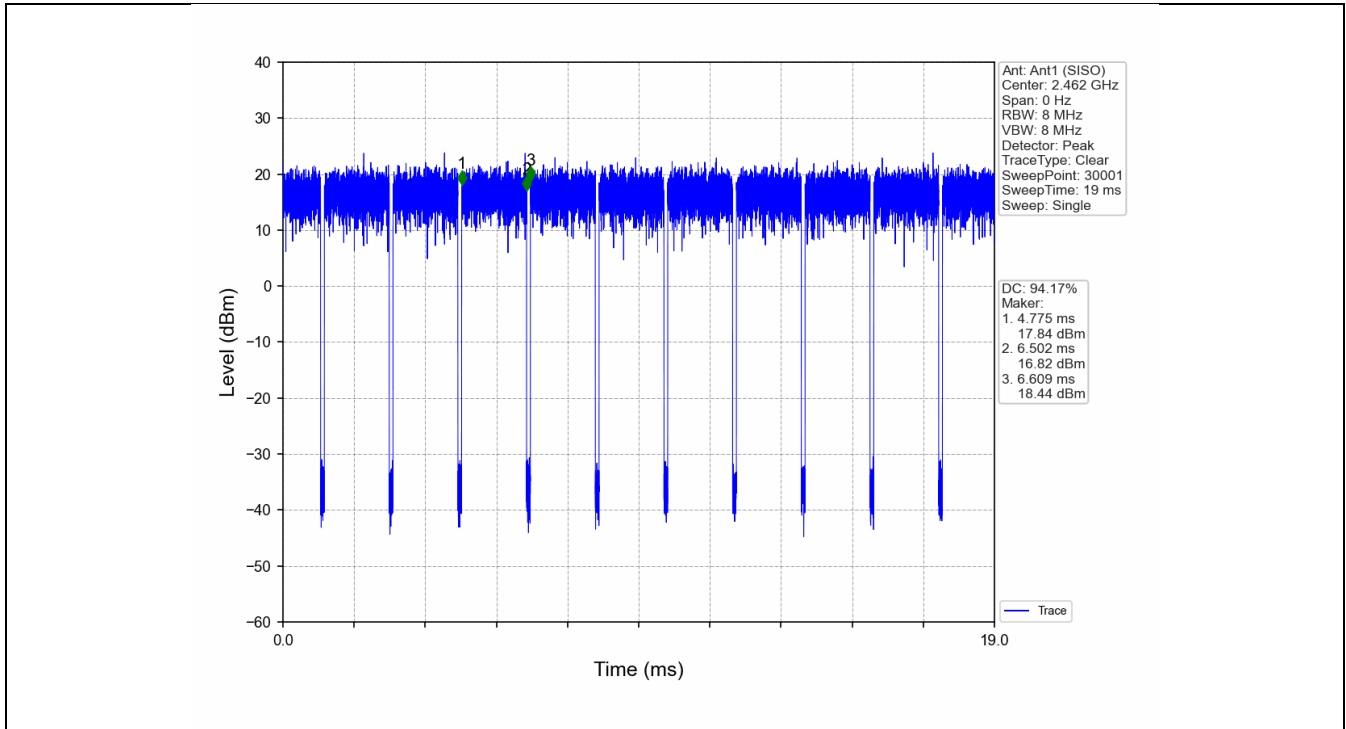


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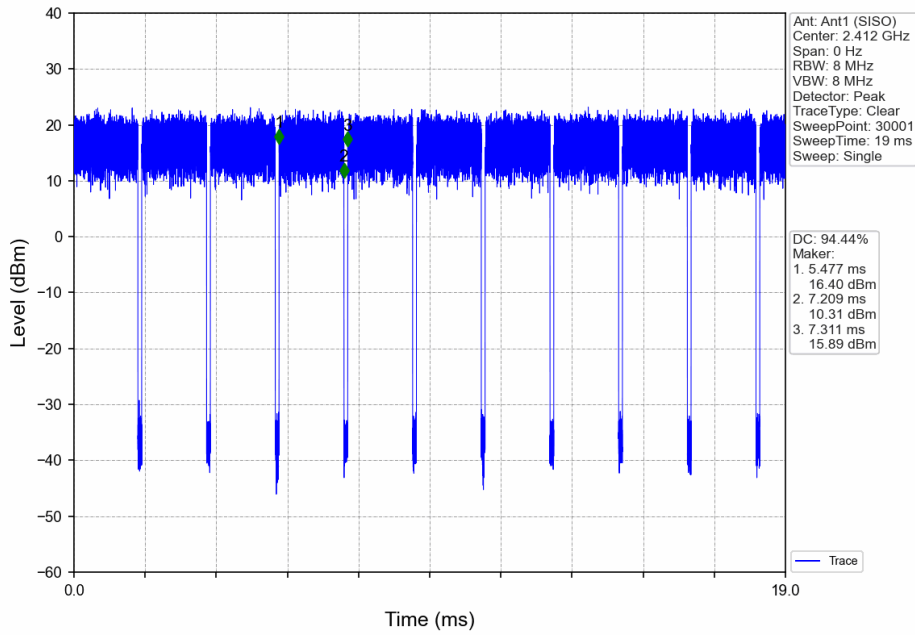
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

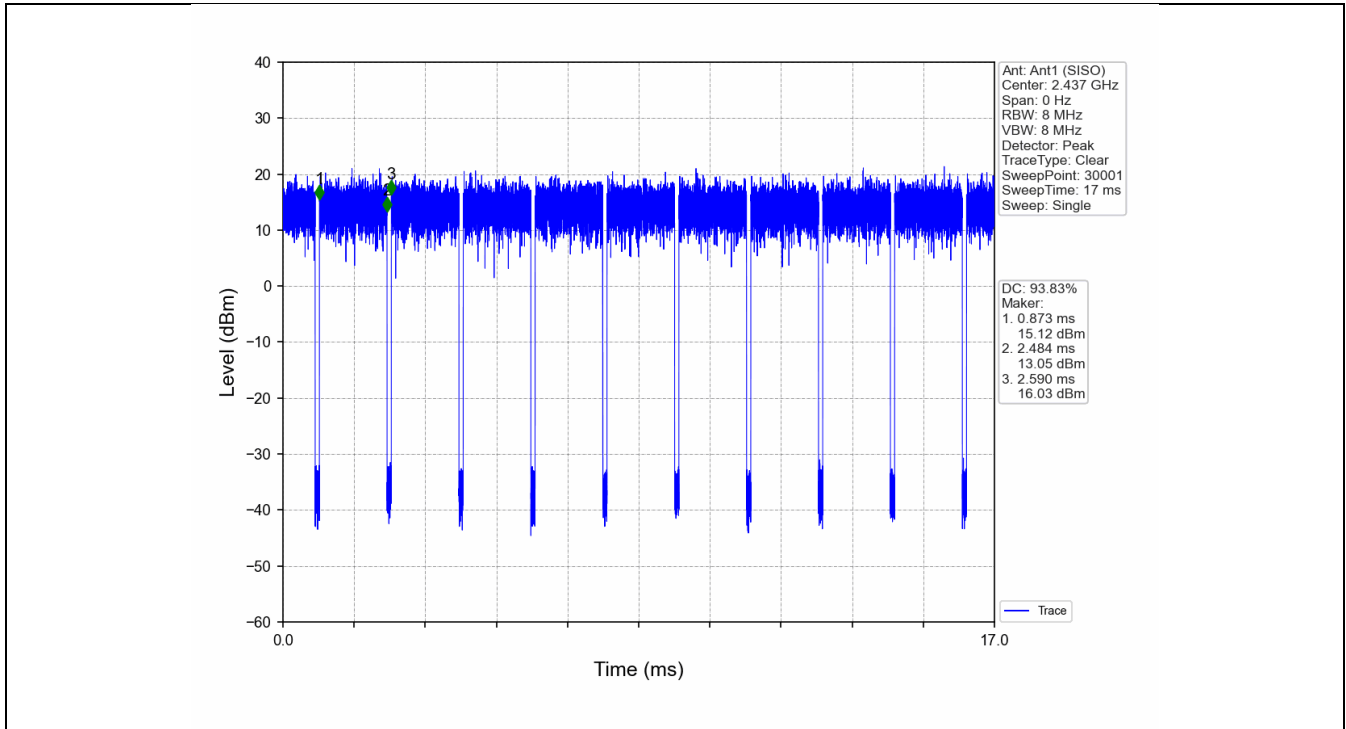


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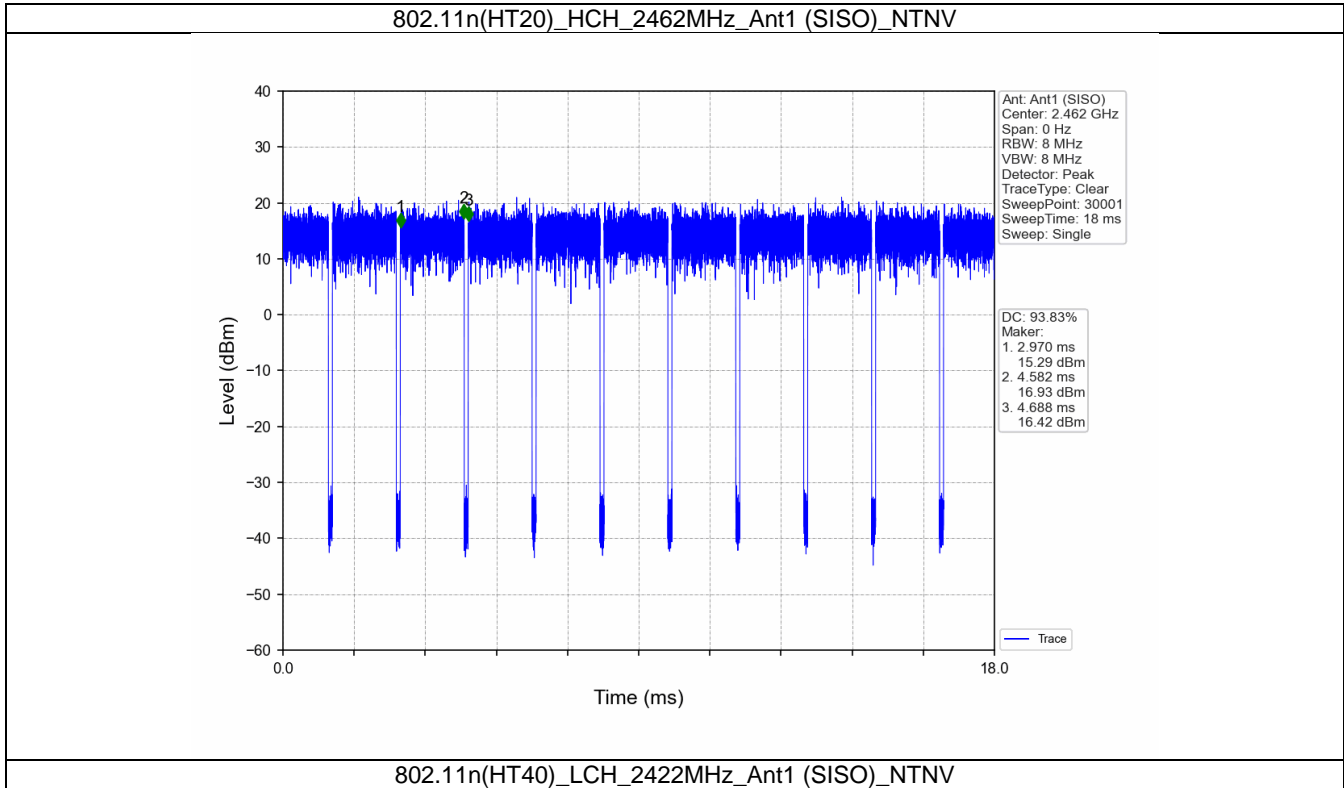
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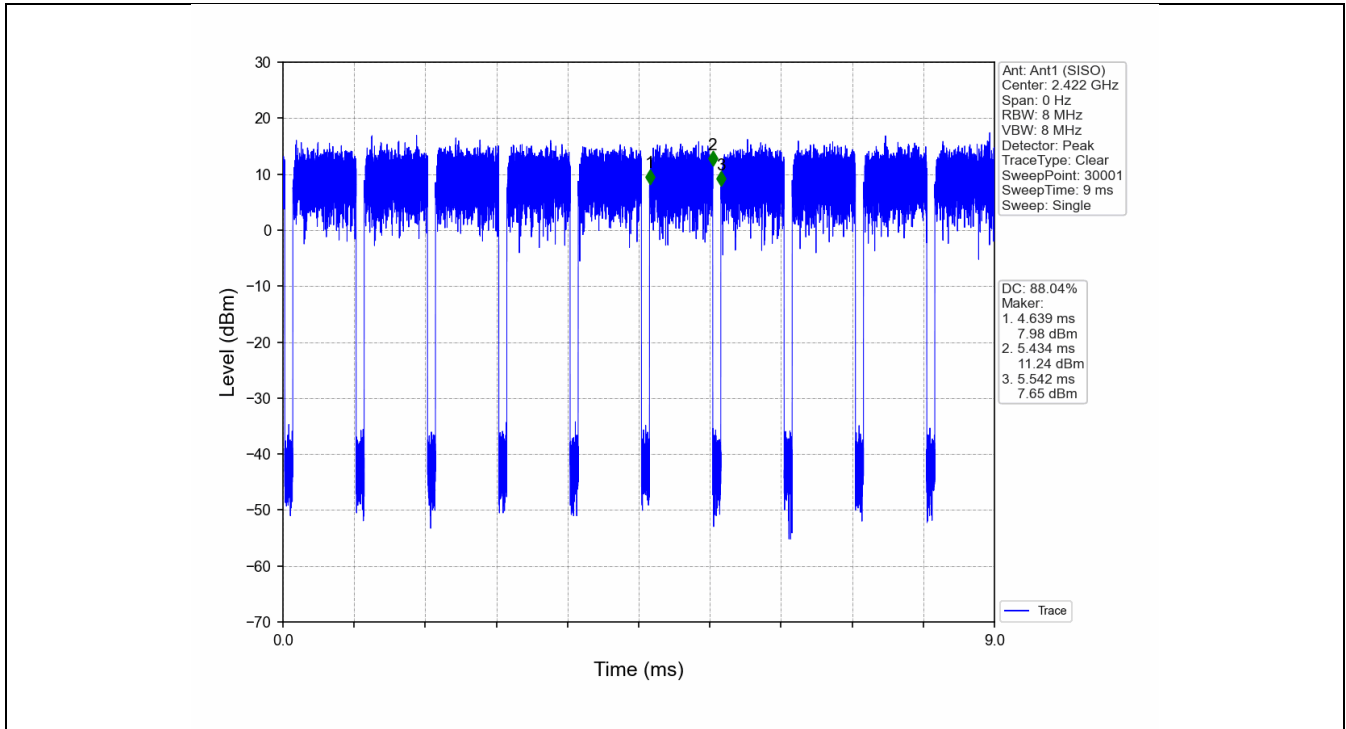


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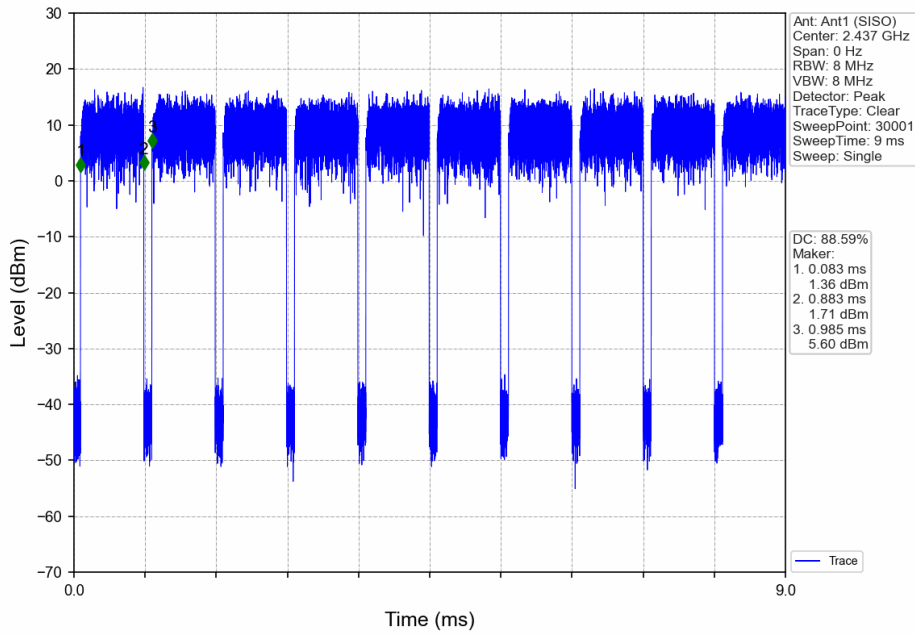
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

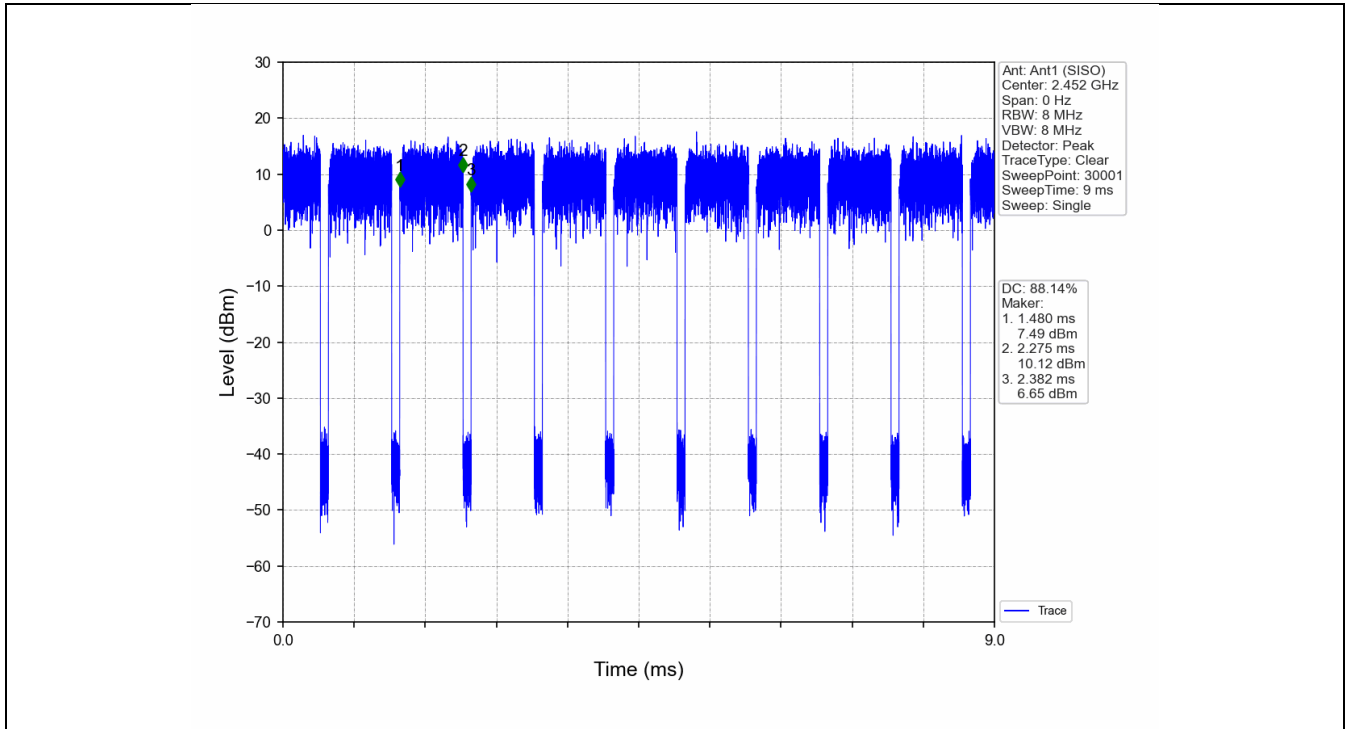


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2. Bandwidth

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	12.000	Pass
		2437	1	11.984	Pass
		2462	1	11.999	Pass
802.11g	SISO	2412	1	17.494	Pass
		2437	1	17.532	Pass
		2462	1	17.512	Pass
802.11n (HT20)	SISO	2412	1	18.611	Pass
		2437	1	18.223	Pass
		2462	1	18.207	Pass
802.11n (HT40)	SISO	2422	1	36.908	Pass
		2437	1	36.893	Pass
		2452	1	36.907	Pass

2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

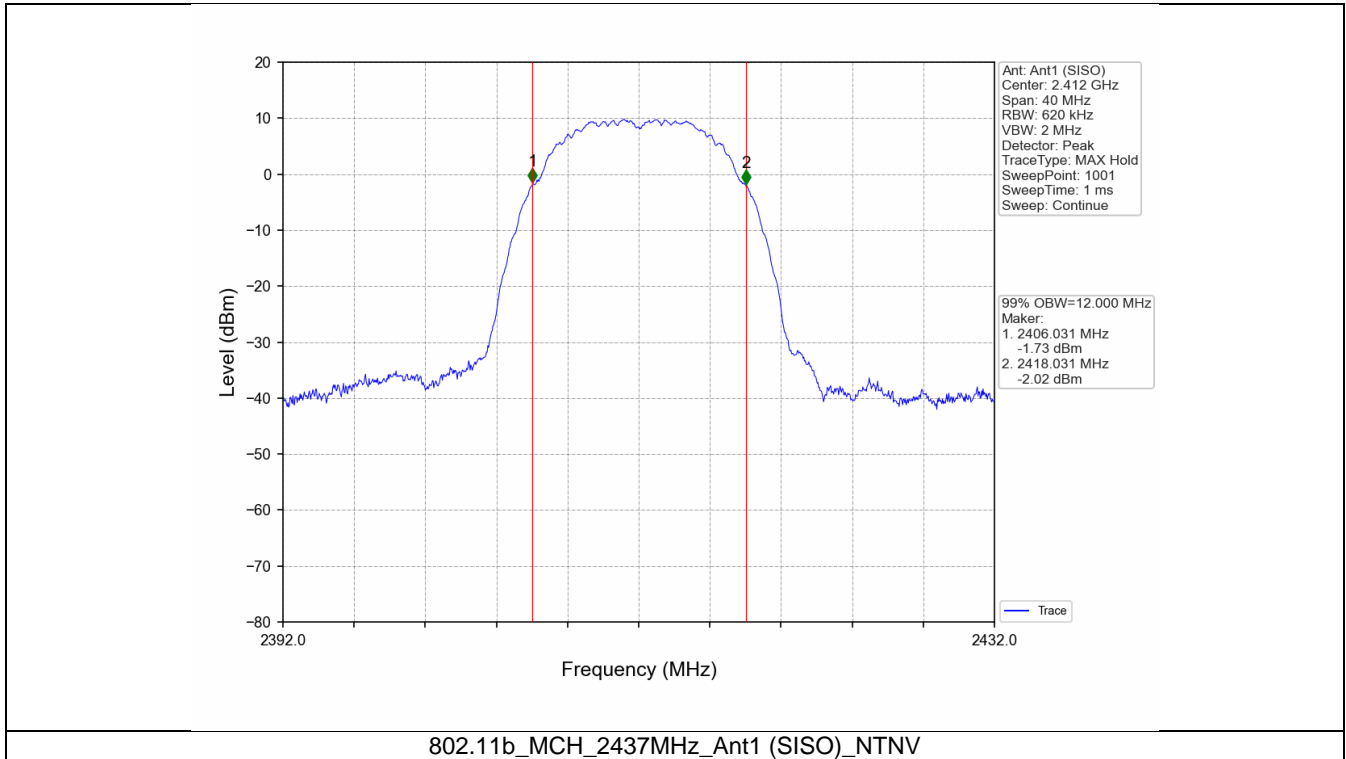


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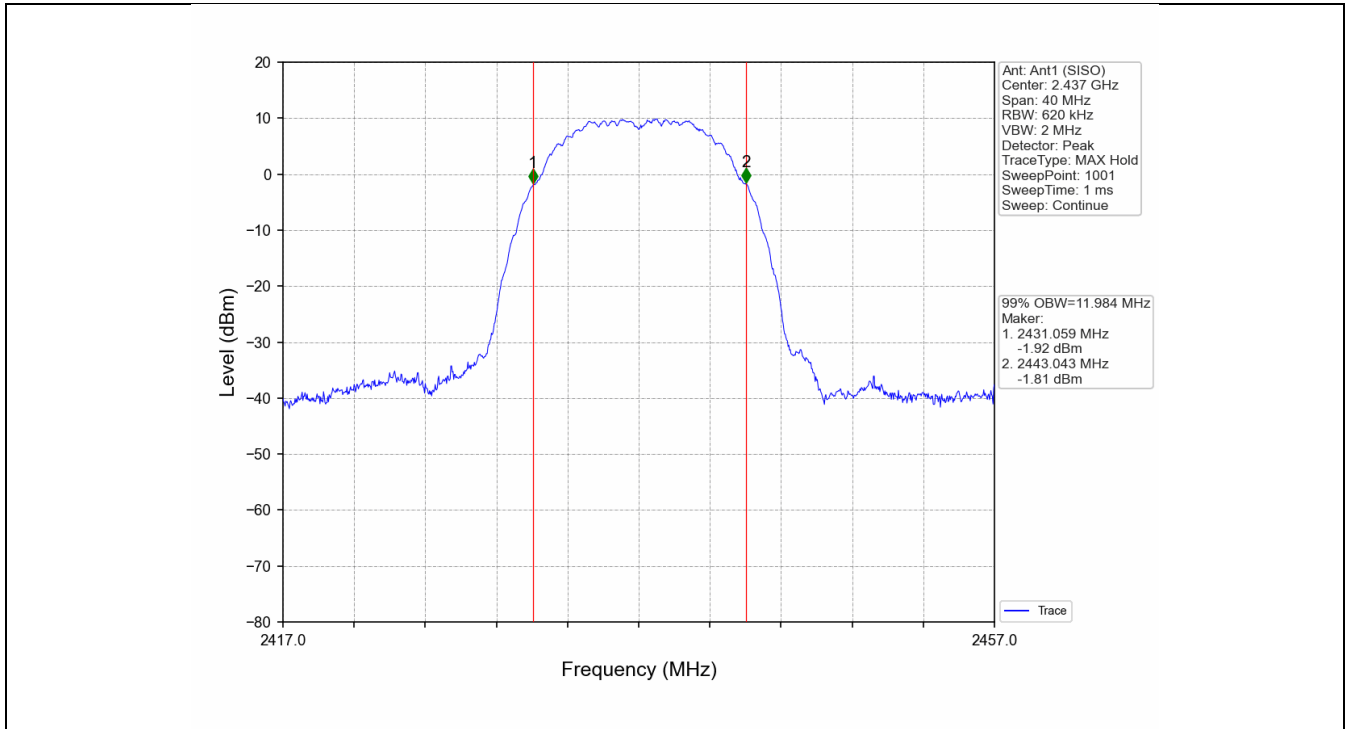
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

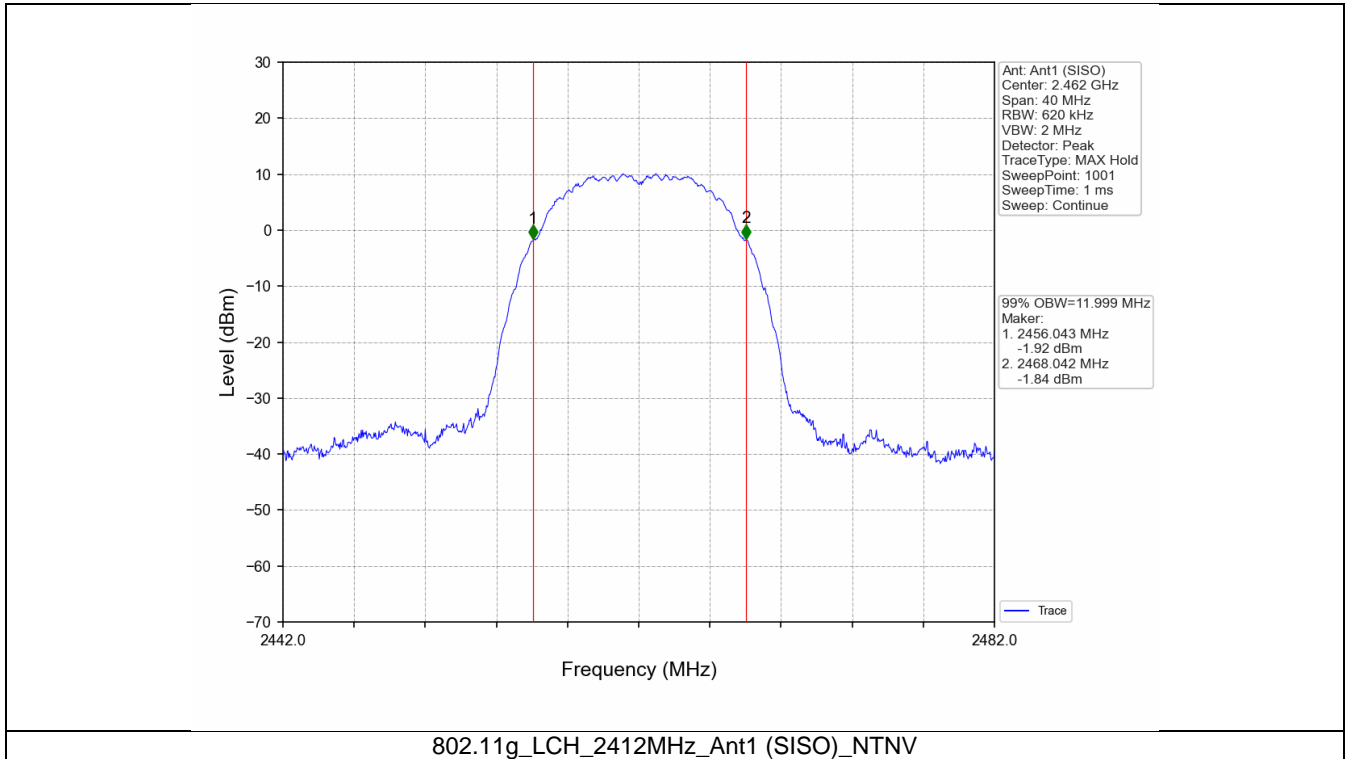


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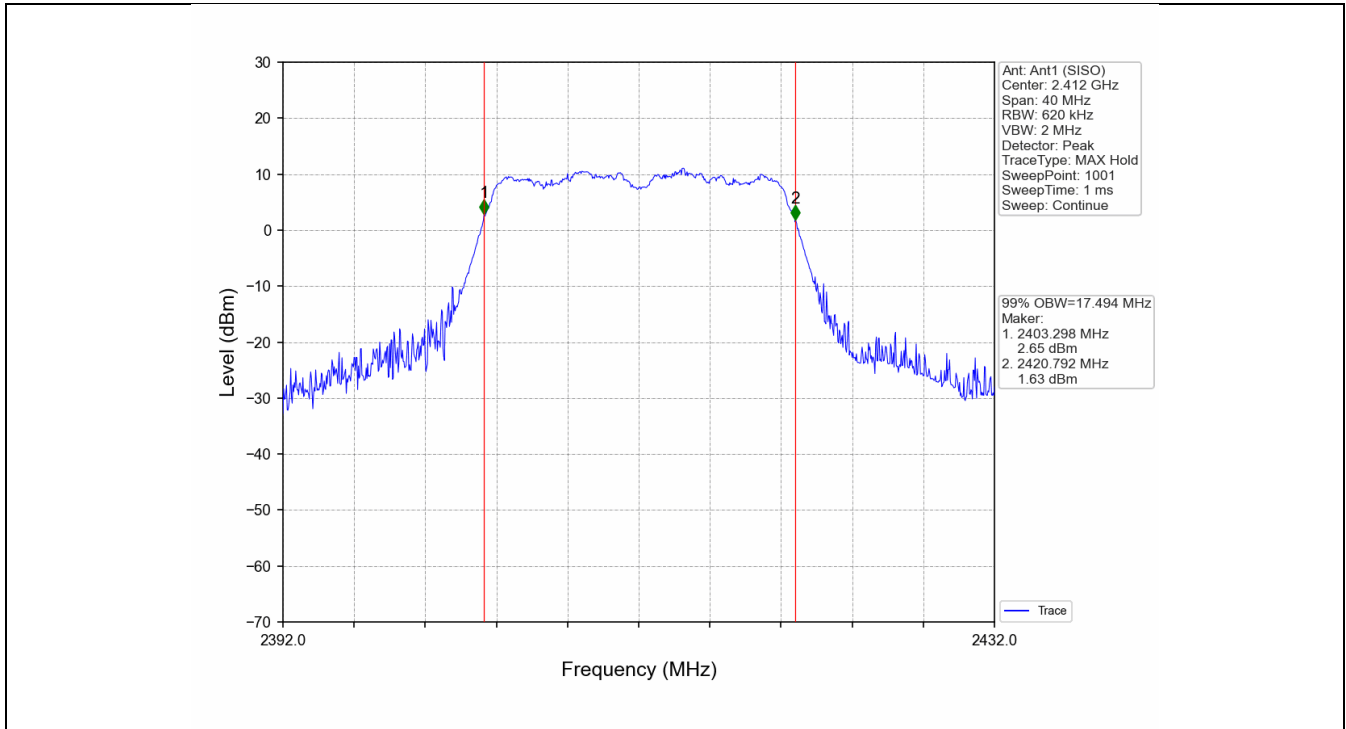
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

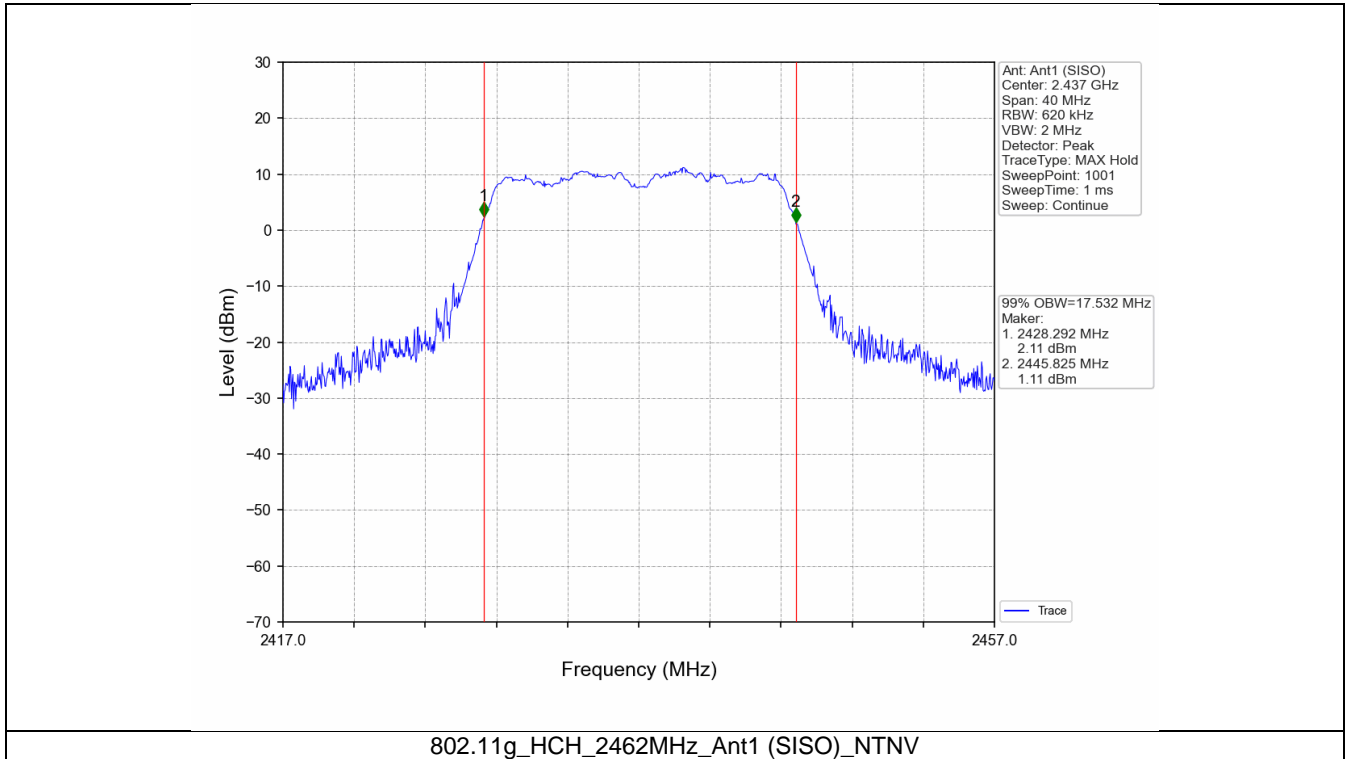


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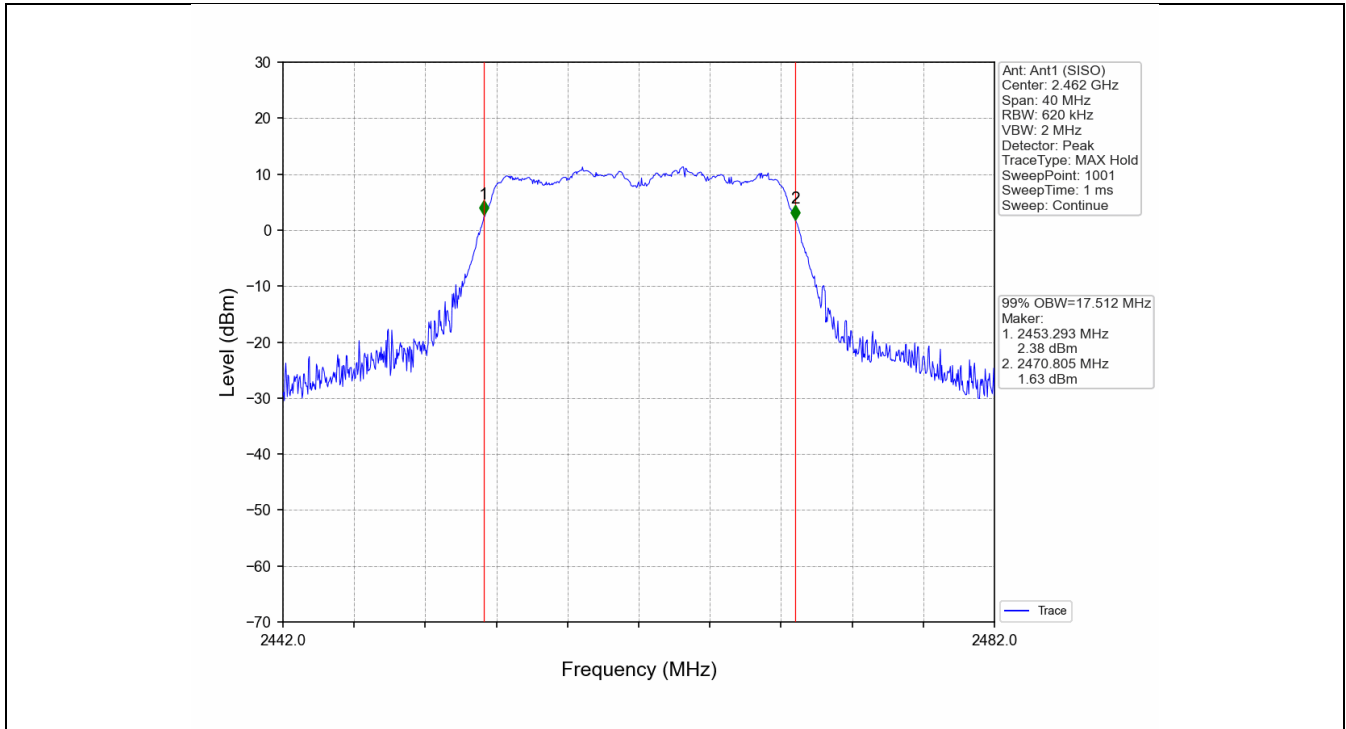
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

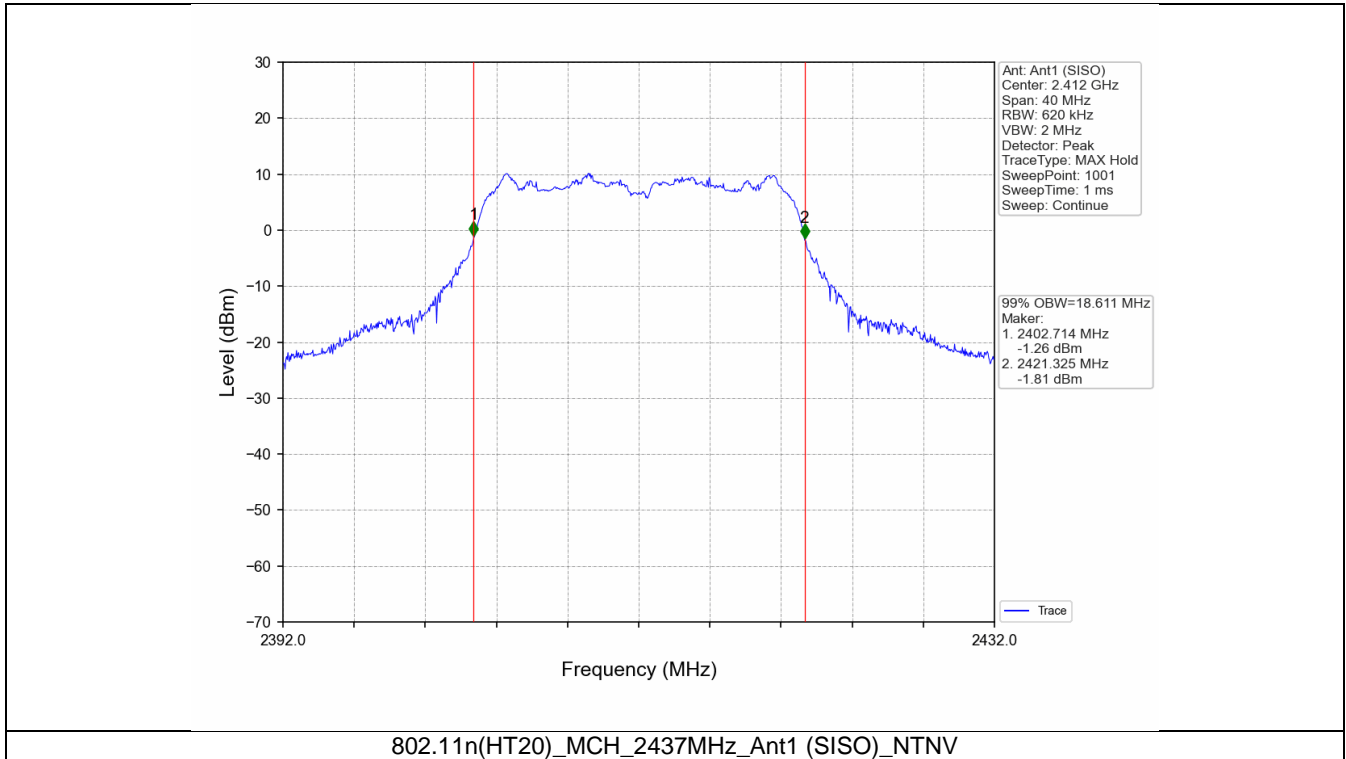


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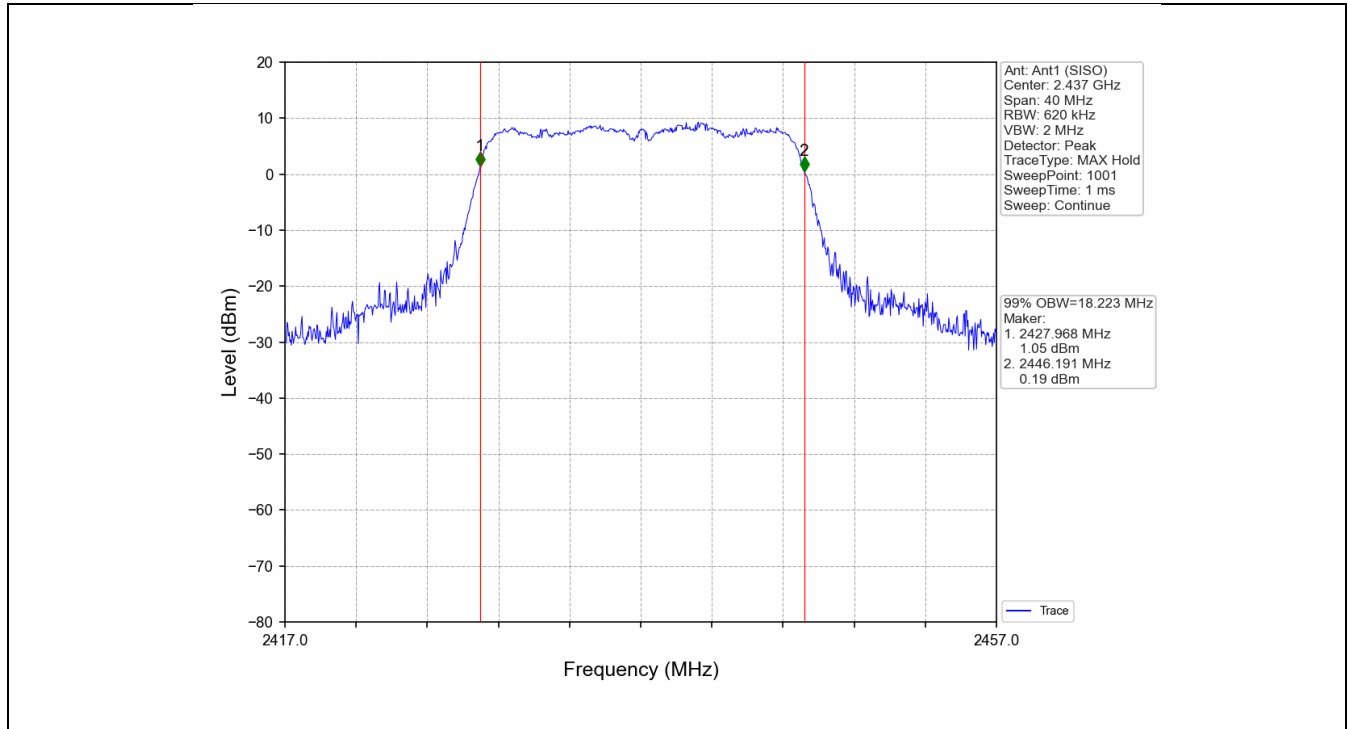
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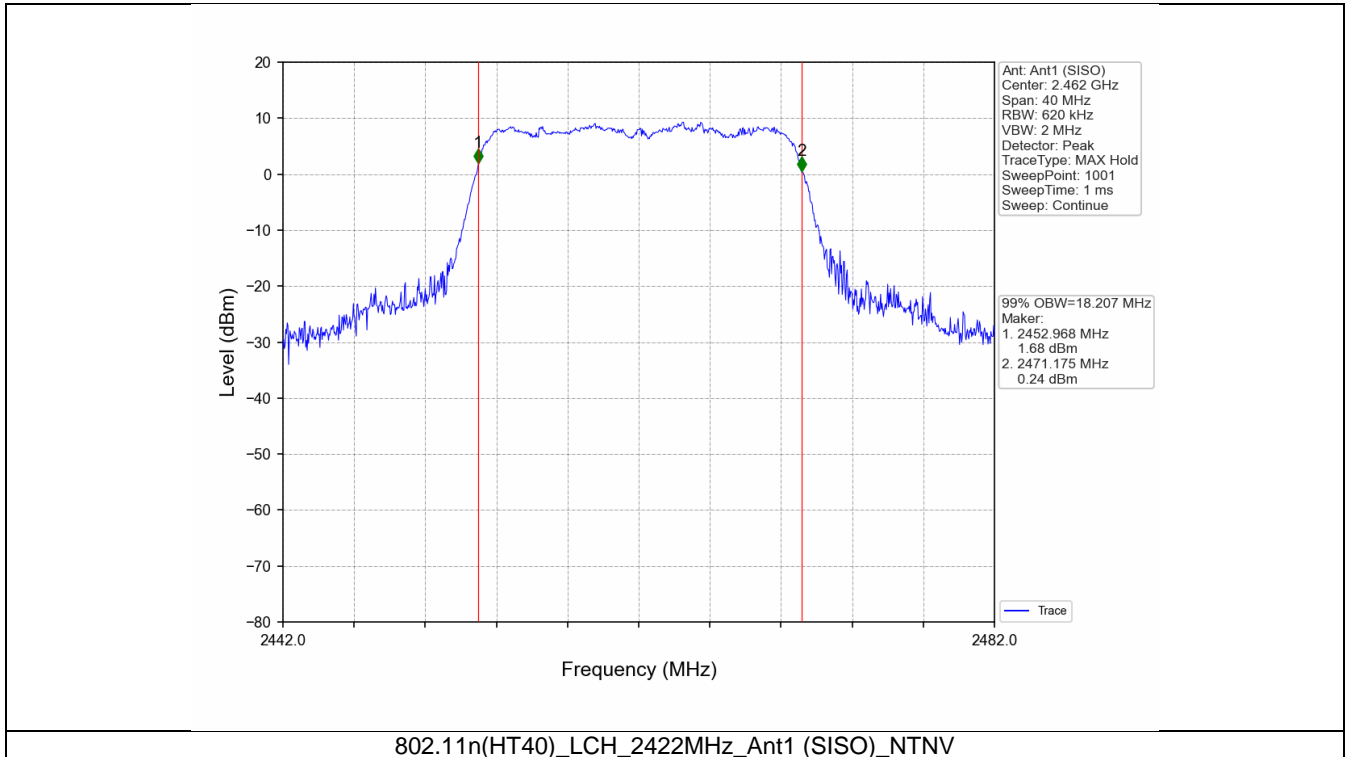
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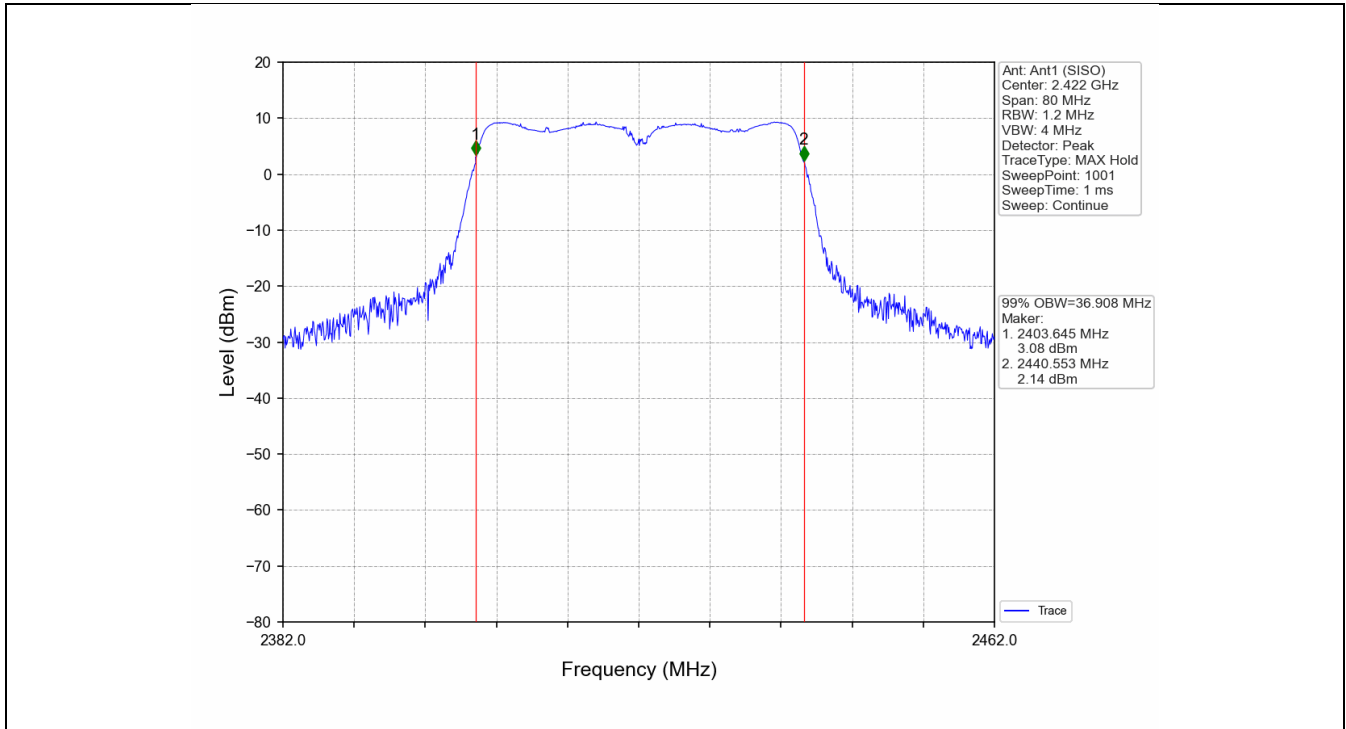
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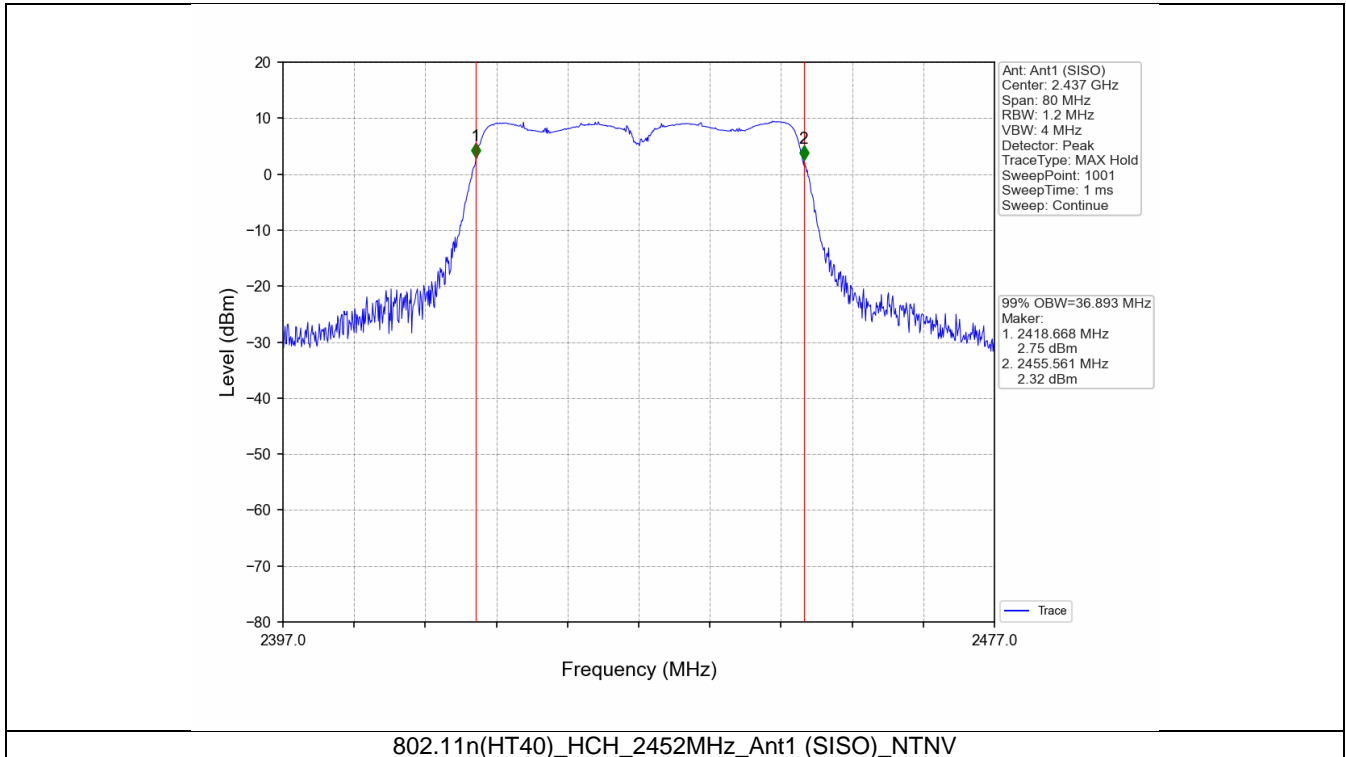
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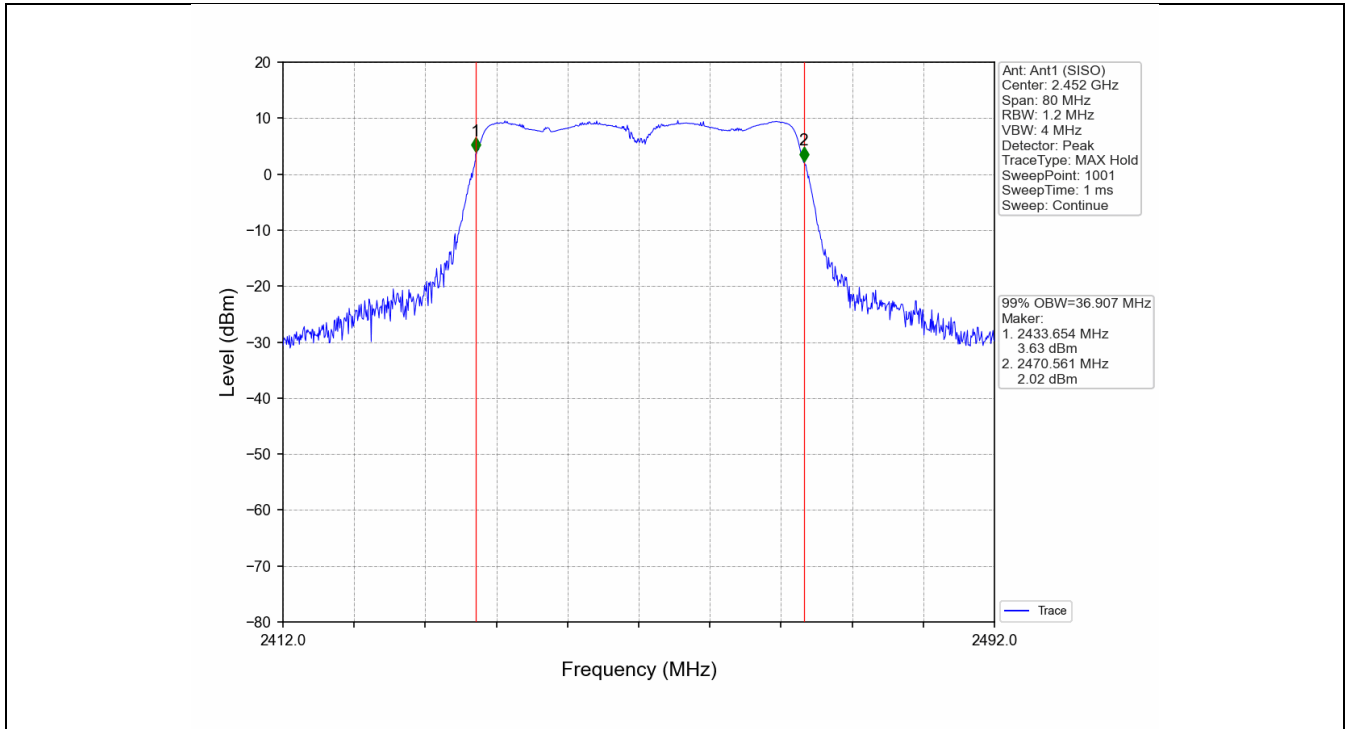
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.181	>=0.5	Pass
		2437	1	9.163	>=0.5	Pass
		2462	1	9.164	>=0.5	Pass
802.11g	SISO	2412	1	16.419	>=0.5	Pass
		2437	1	16.429	>=0.5	Pass
		2462	1	16.413	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	16.622	>=0.5	Pass
		2437	1	17.615	>=0.5	Pass
		2462	1	17.601	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.877	>=0.5	Pass
		2437	1	35.907	>=0.5	Pass
		2452	1	35.865	>=0.5	Pass



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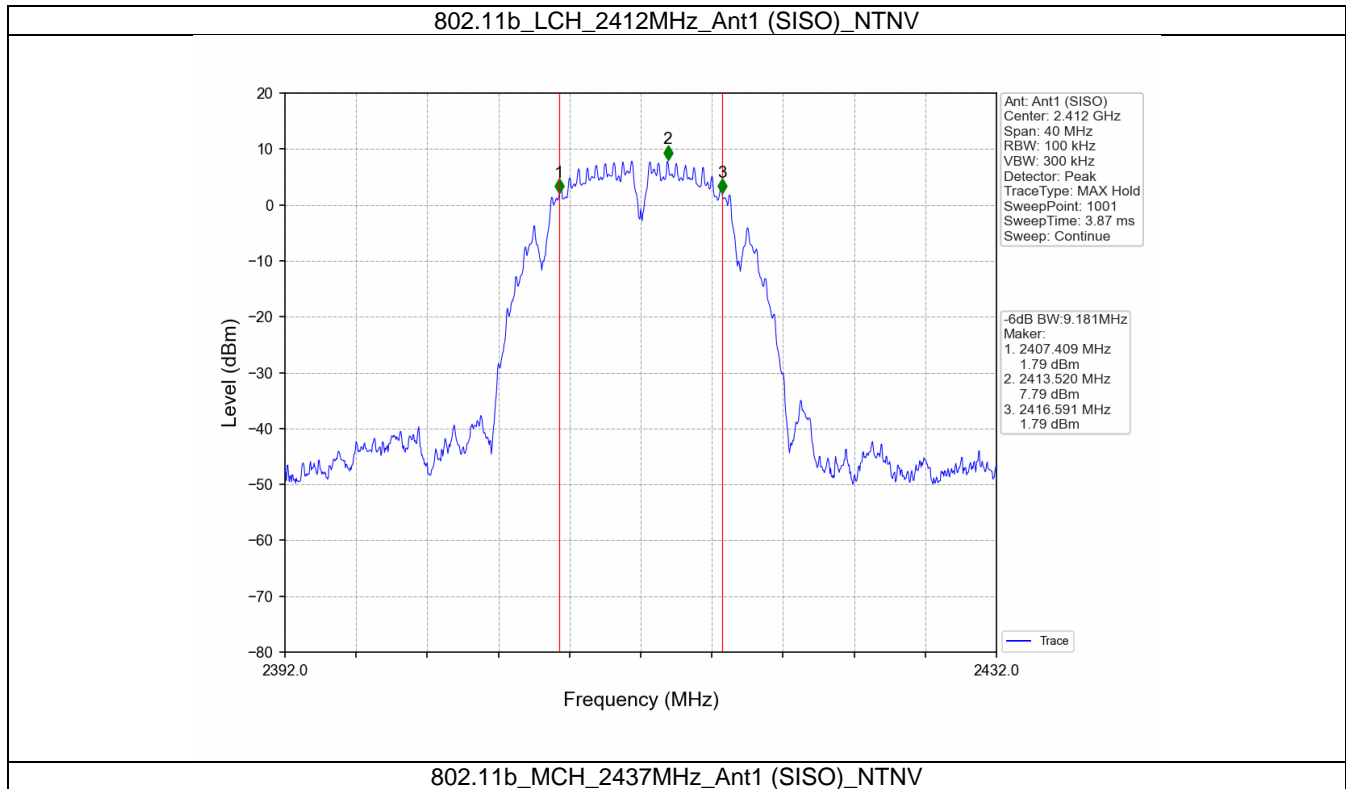
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2.2.2 Test Graph



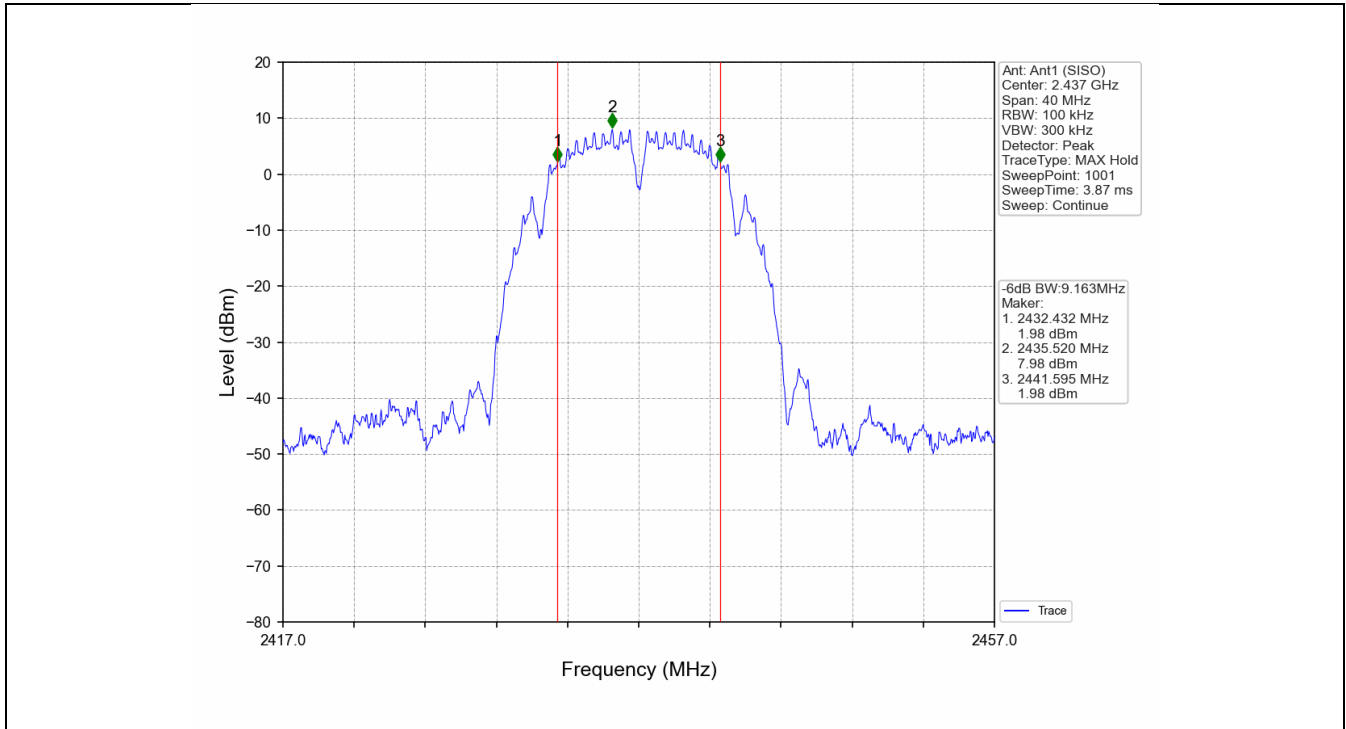
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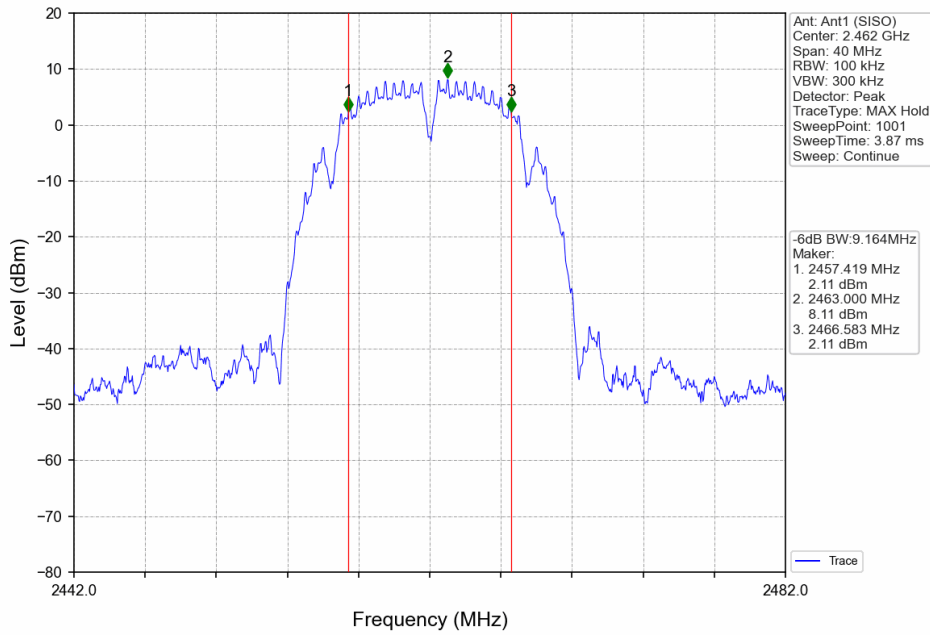


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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

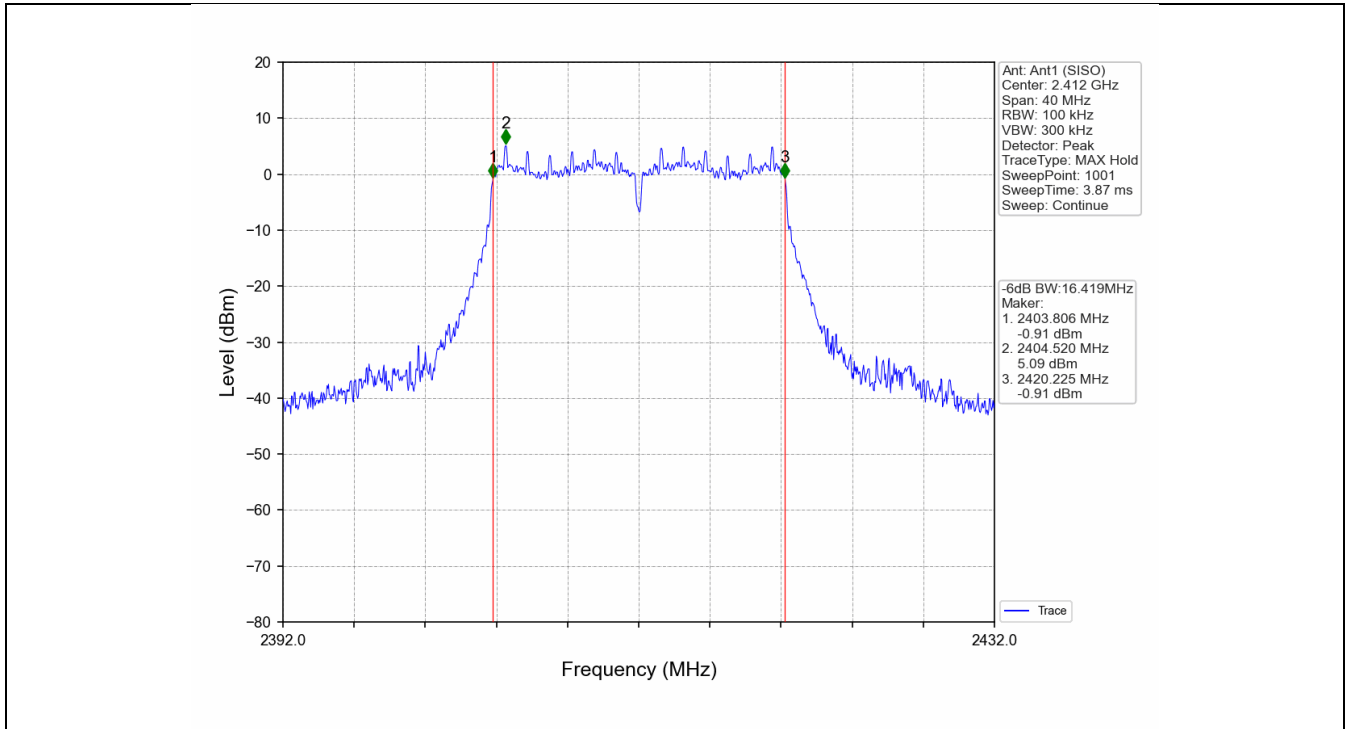


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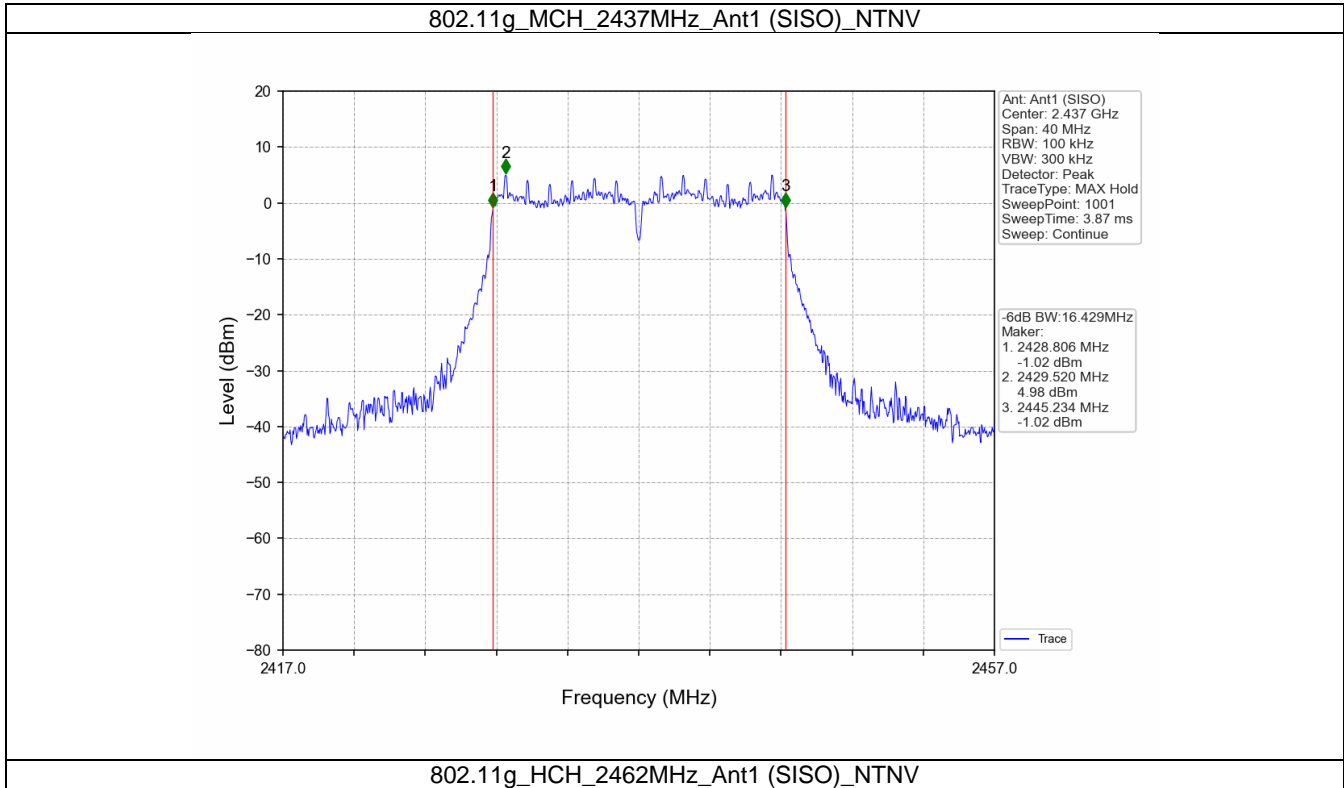
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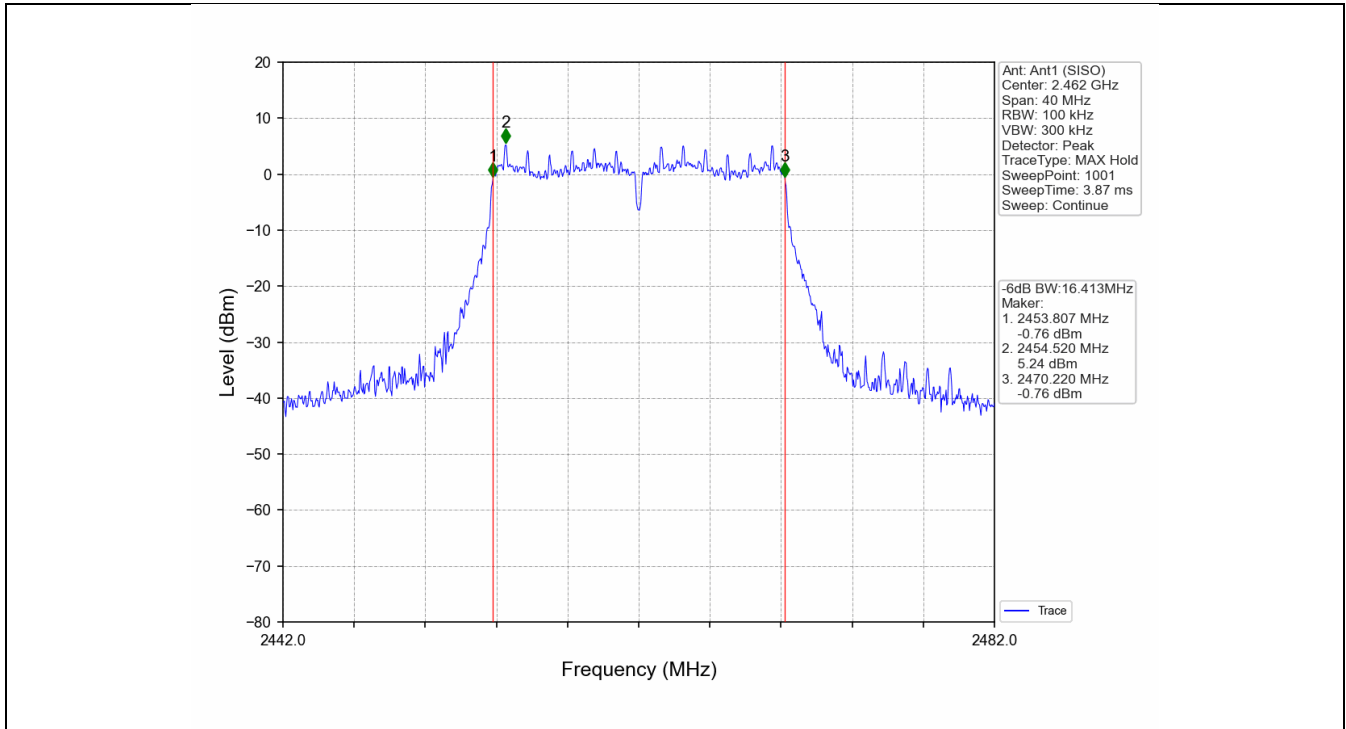


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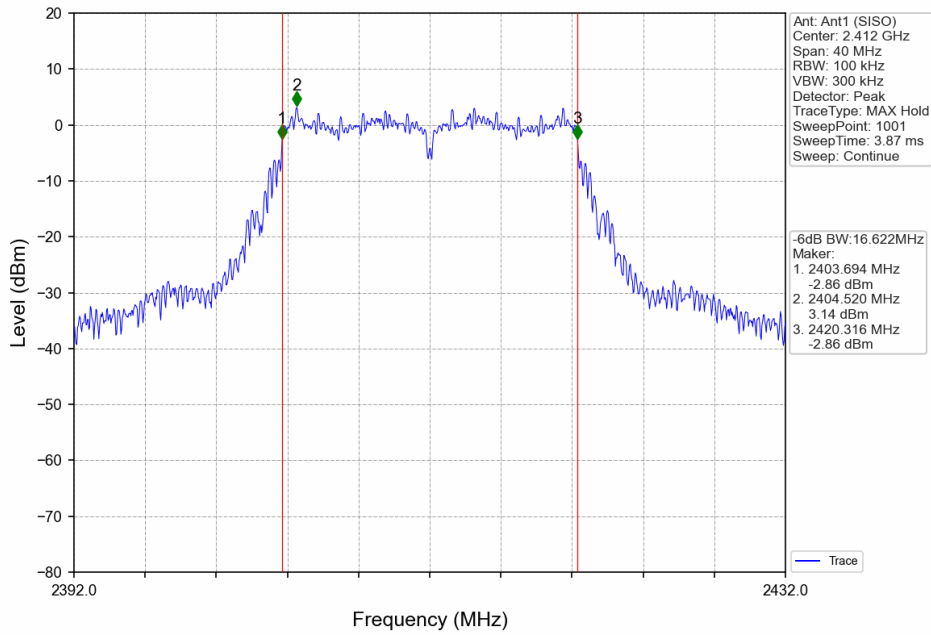


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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

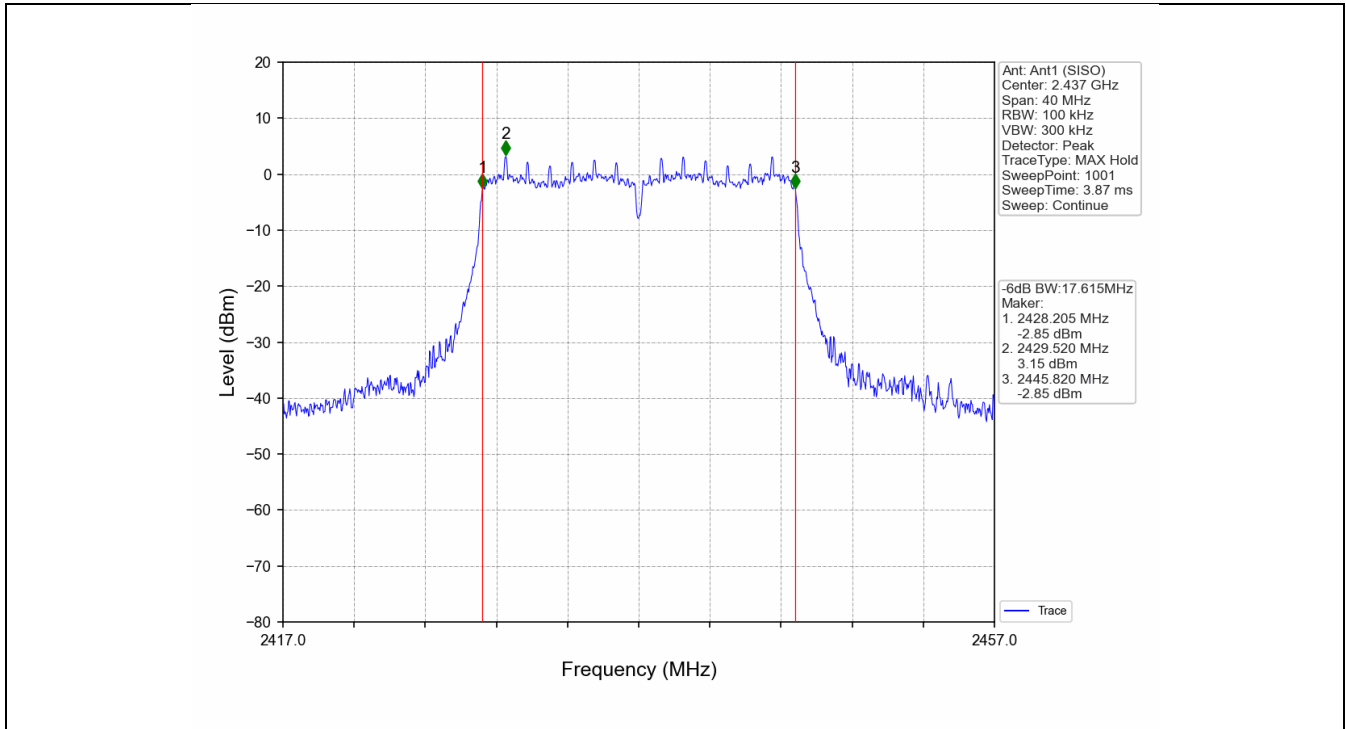


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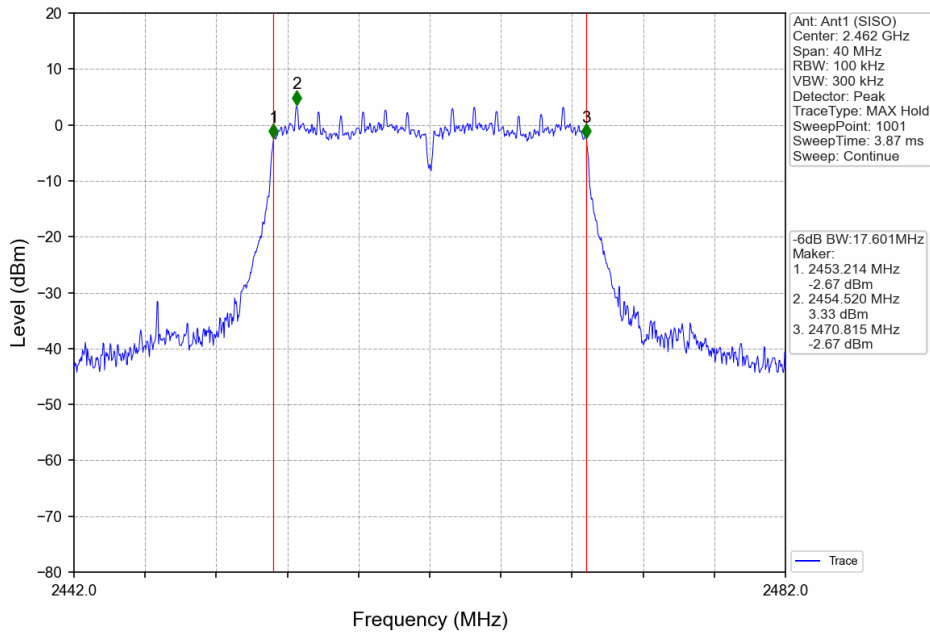


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

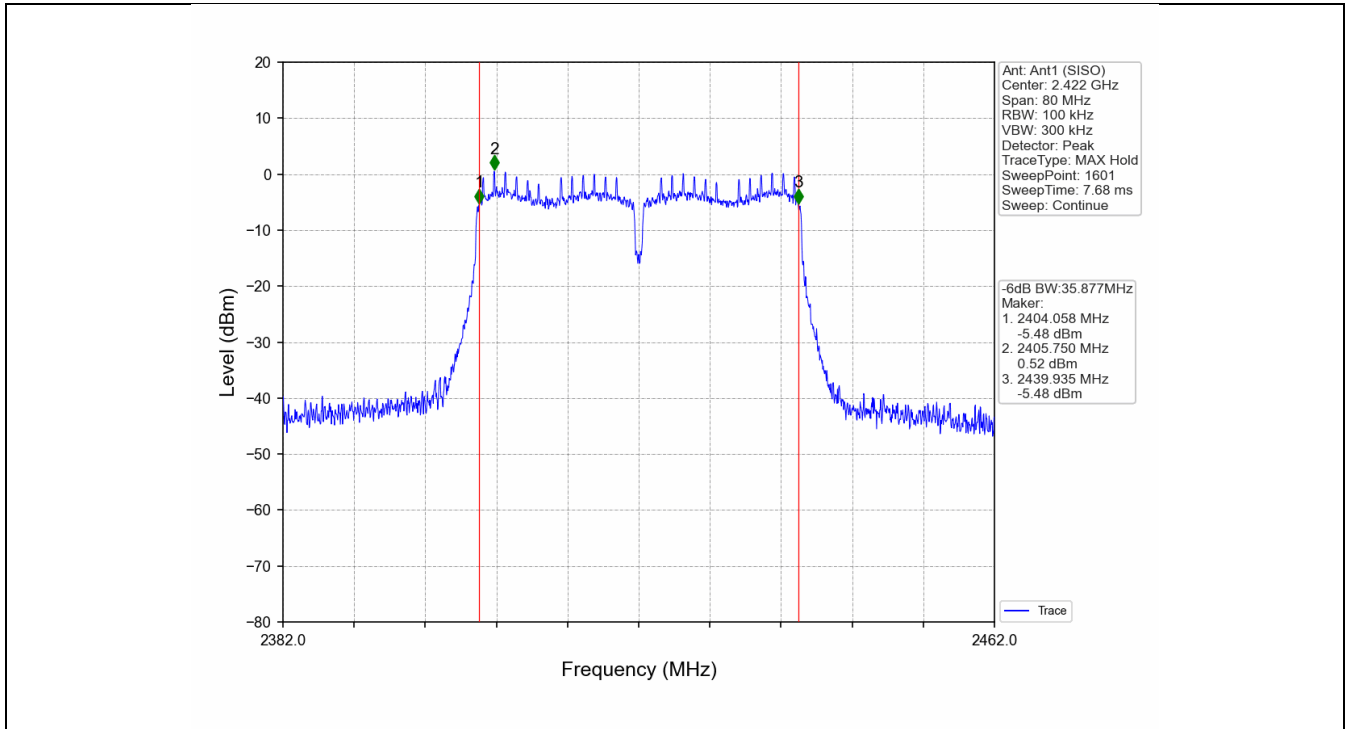


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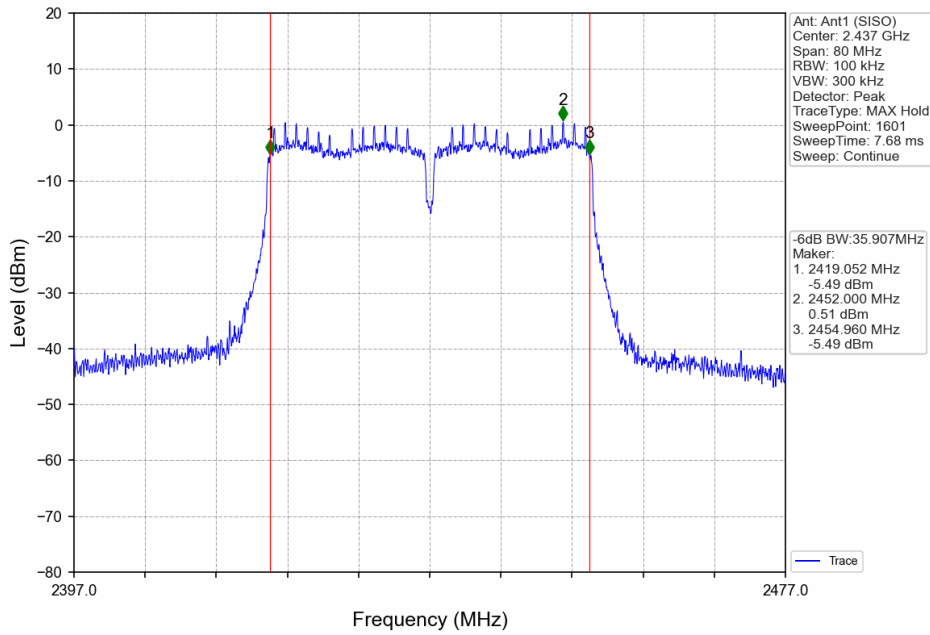


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

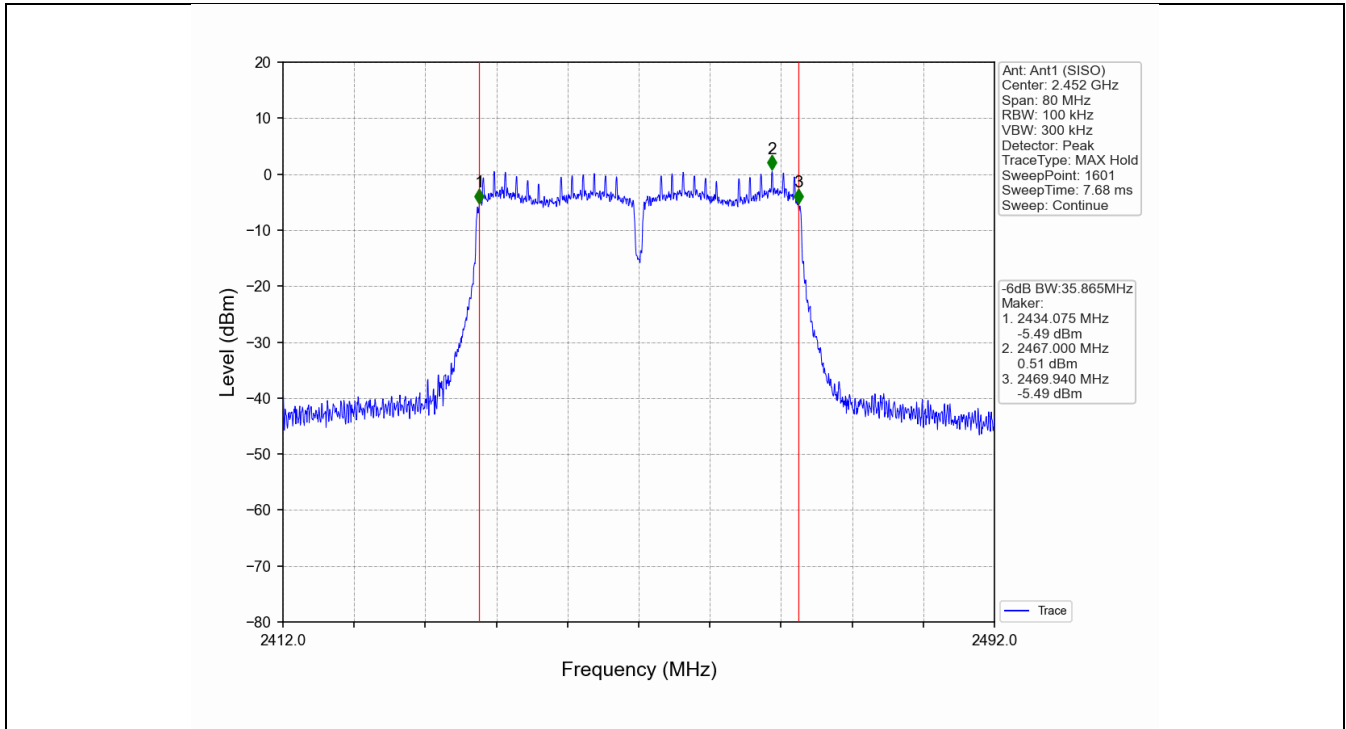


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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	16.96	<=30	Pass
		2437	17.03	<=30	Pass
		2462	17.12	<=30	Pass
802.11g	SISO	2412	15.72	<=30	Pass
		2437	15.78	<=30	Pass
		2462	15.91	<=30	Pass
802.11n (HT20)	SISO	2412	15.18	<=30	Pass
		2437	14.08	<=30	Pass
		2462	14.19	<=30	Pass
802.11n (HT40)	SISO	2422	14.04	<=30	Pass
		2437	14.06	<=30	Pass
		2452	14.16	<=30	Pass

Note1: Antenna Gain: Ant1: 2.9dBi;

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	-2.94	<=8	Pass
		2437	-2.90	<=8	Pass
		2462	-2.40	<=8	Pass
802.11g	SISO	2412	-9.61	<=8	Pass
		2437	-10.75	<=8	Pass
		2462	-9.94	<=8	Pass
802.11n (HT20)	SISO	2412	-3.81	<=8	Pass
		2437	-11.73	<=8	Pass
		2462	-10.22	<=8	Pass
802.11n (HT40)	SISO	2422	-12.68	<=8	Pass
		2437	-13.99	<=8	Pass
		2452	-14.50	<=8	Pass

Note1: Antenna Gain: Ant1: 2.9dBi;



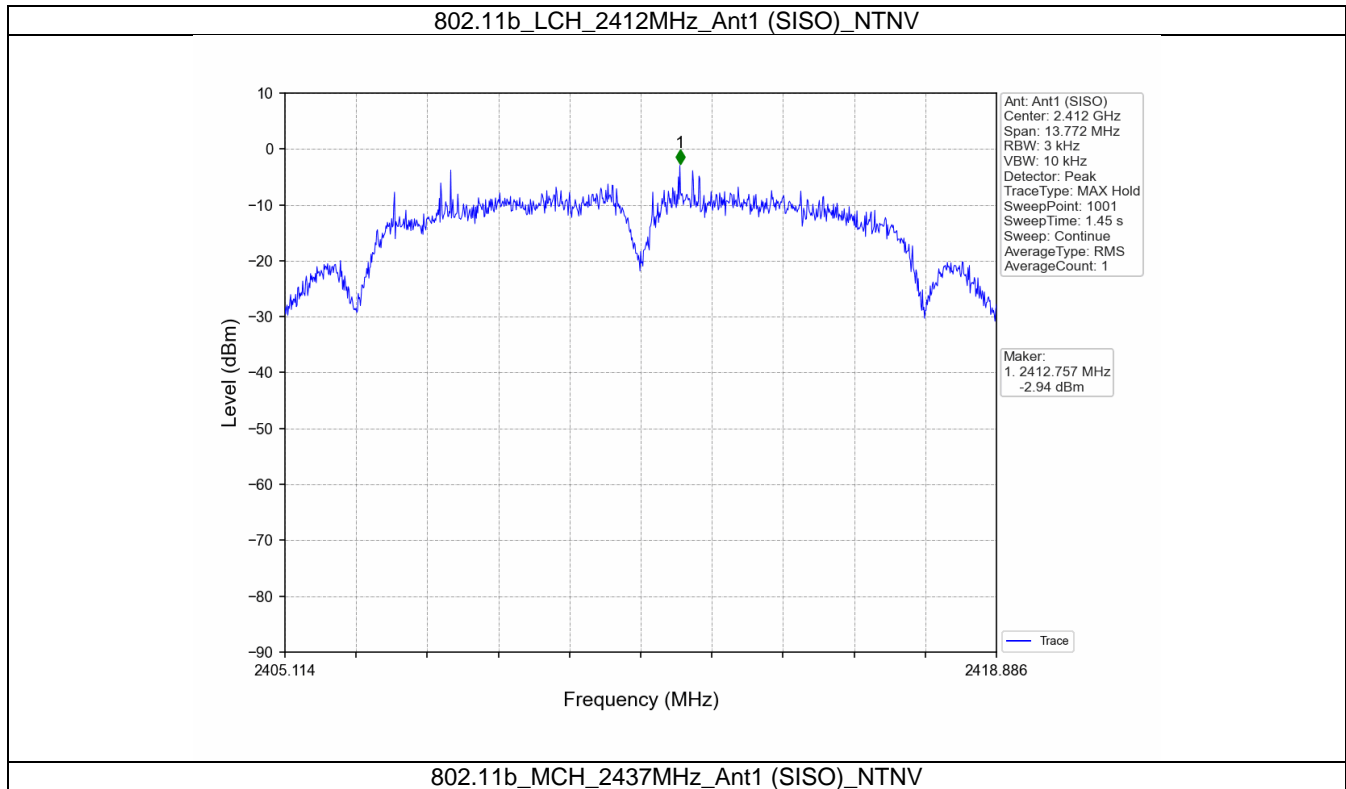
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4.1.2 Test Graph



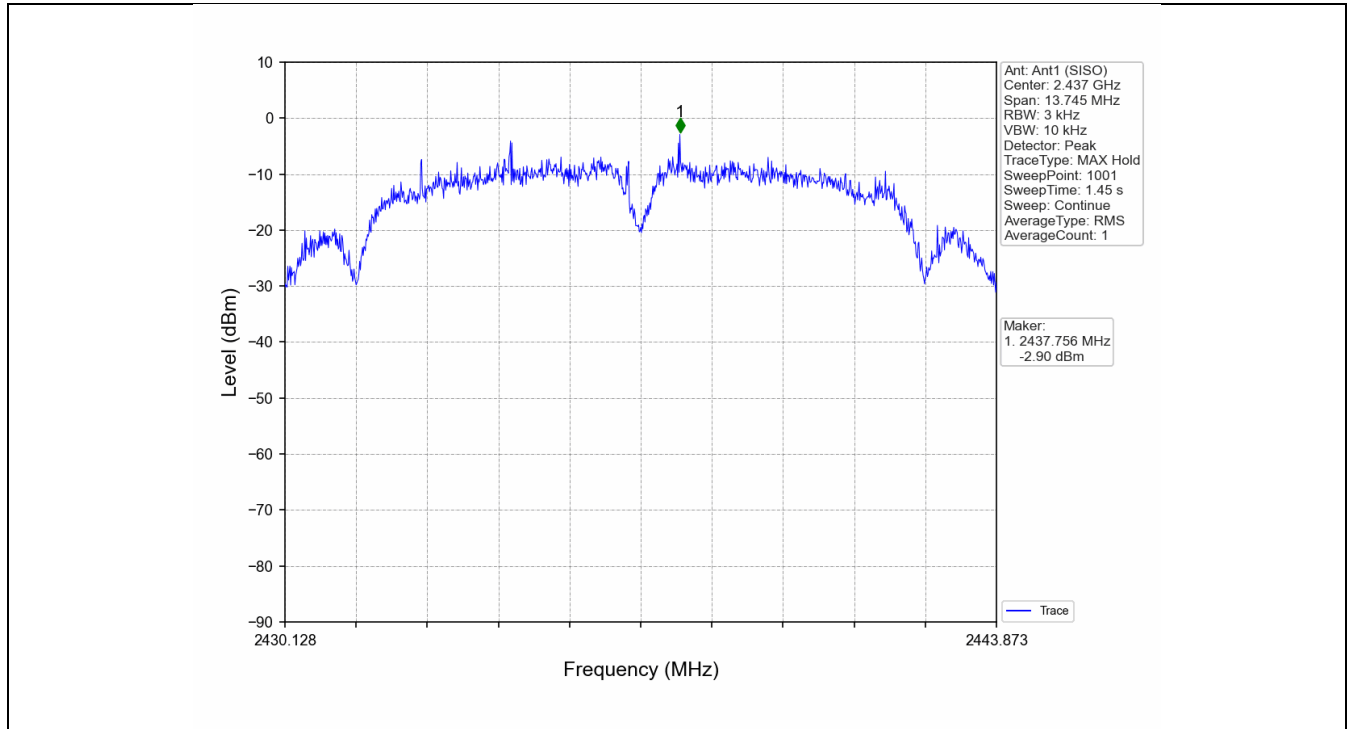
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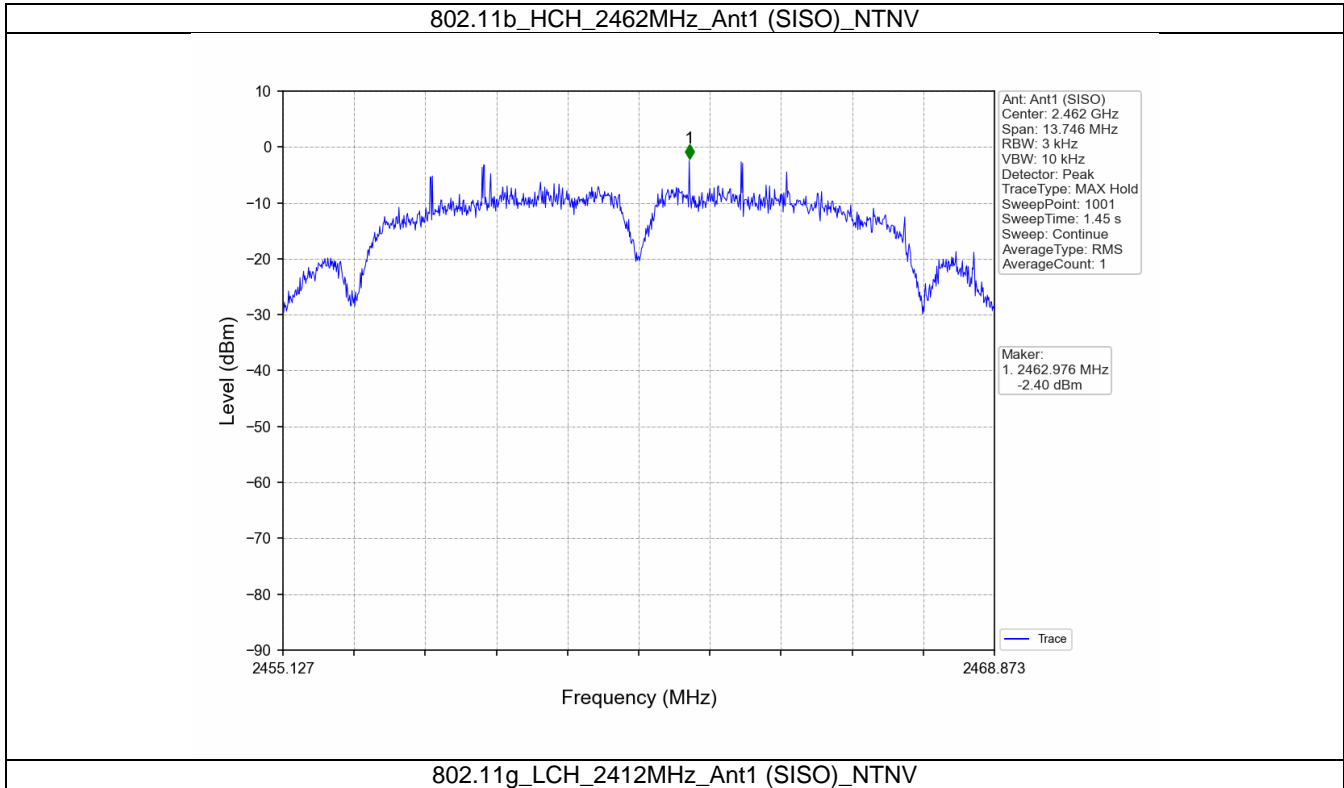


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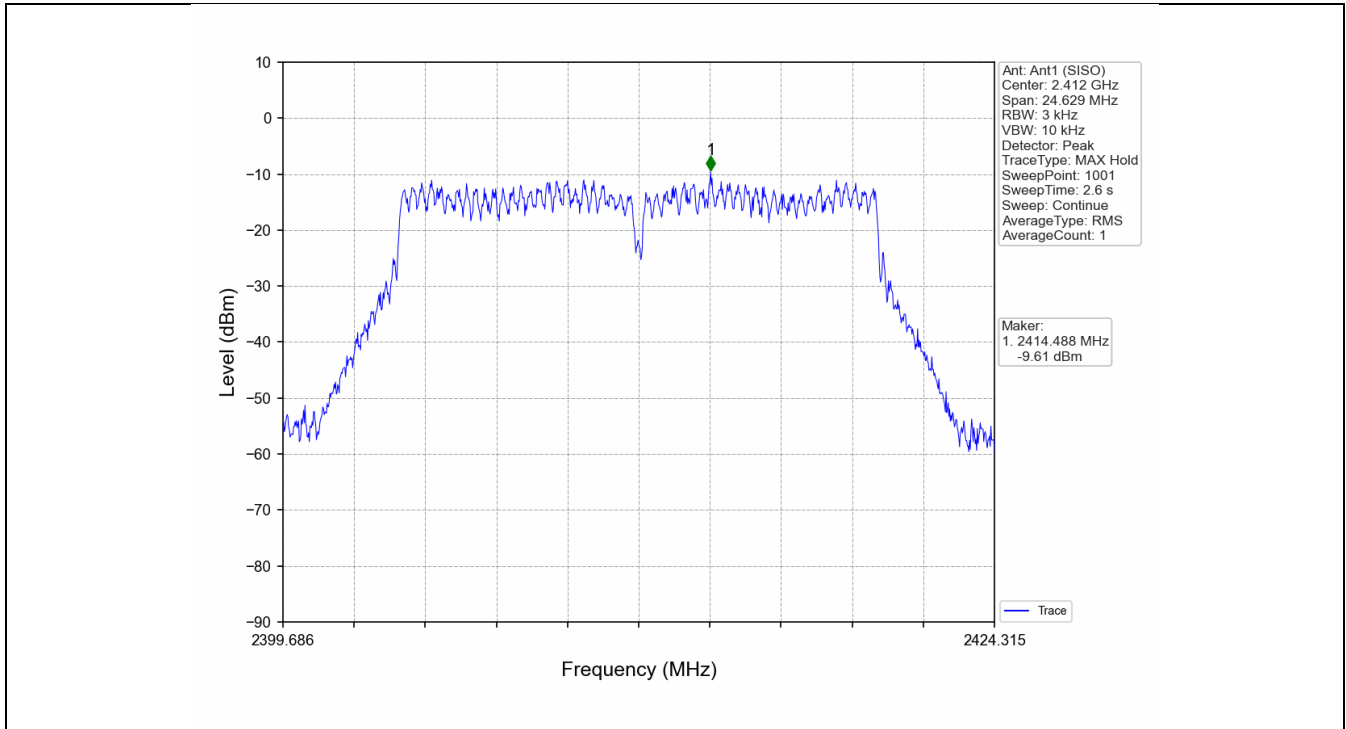


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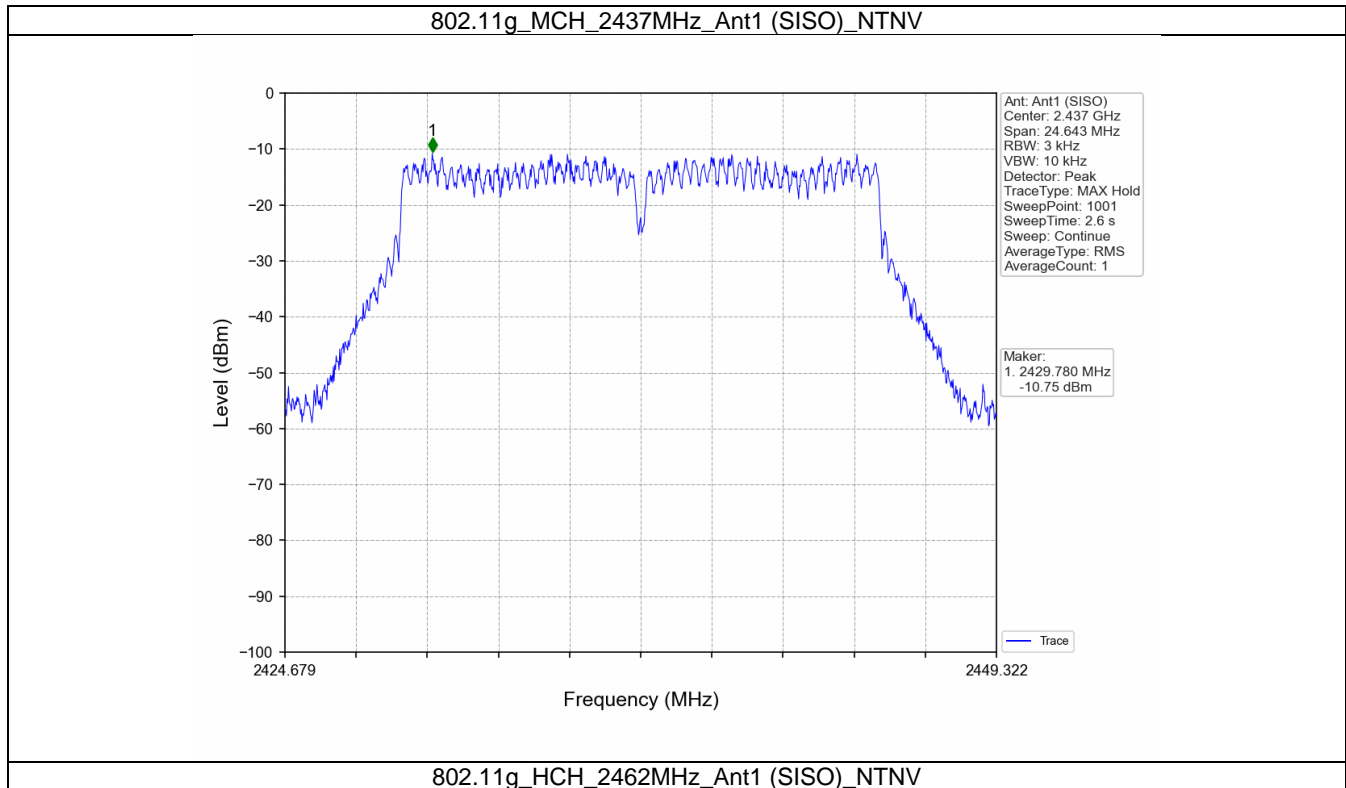


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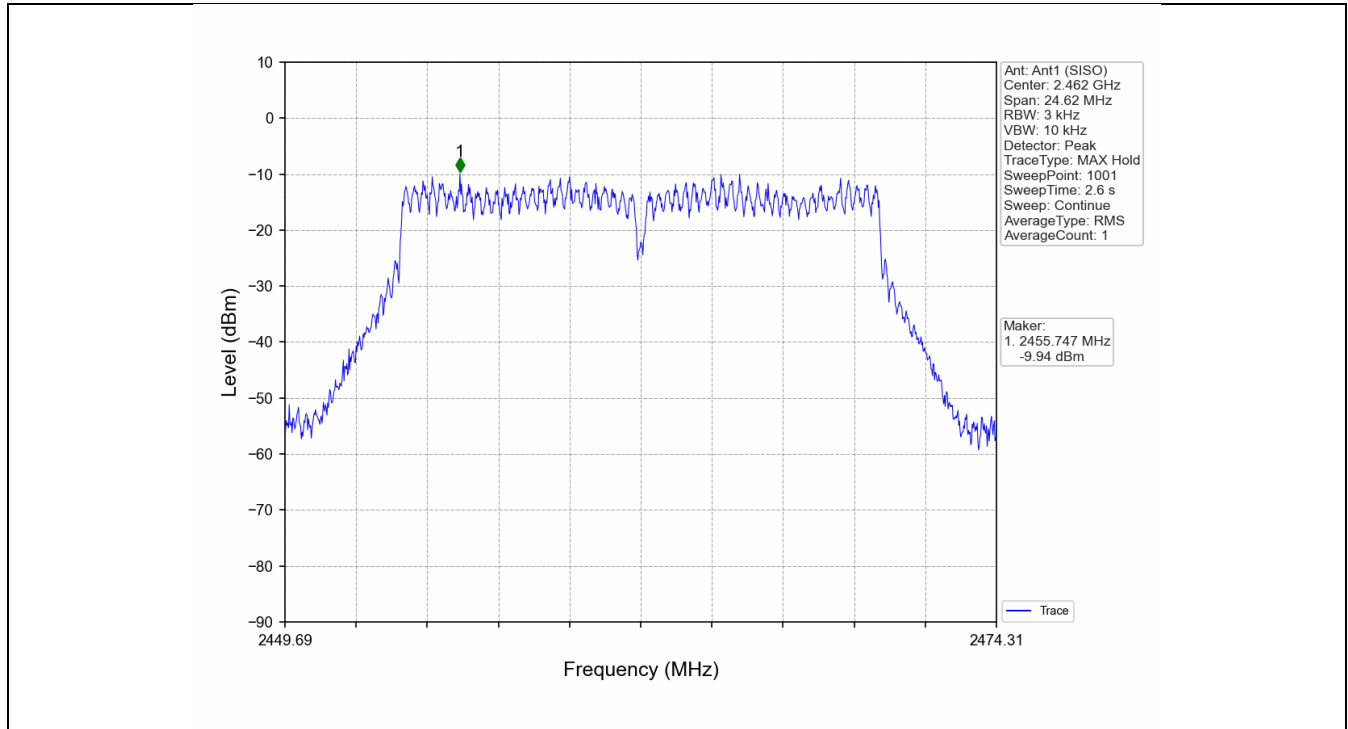


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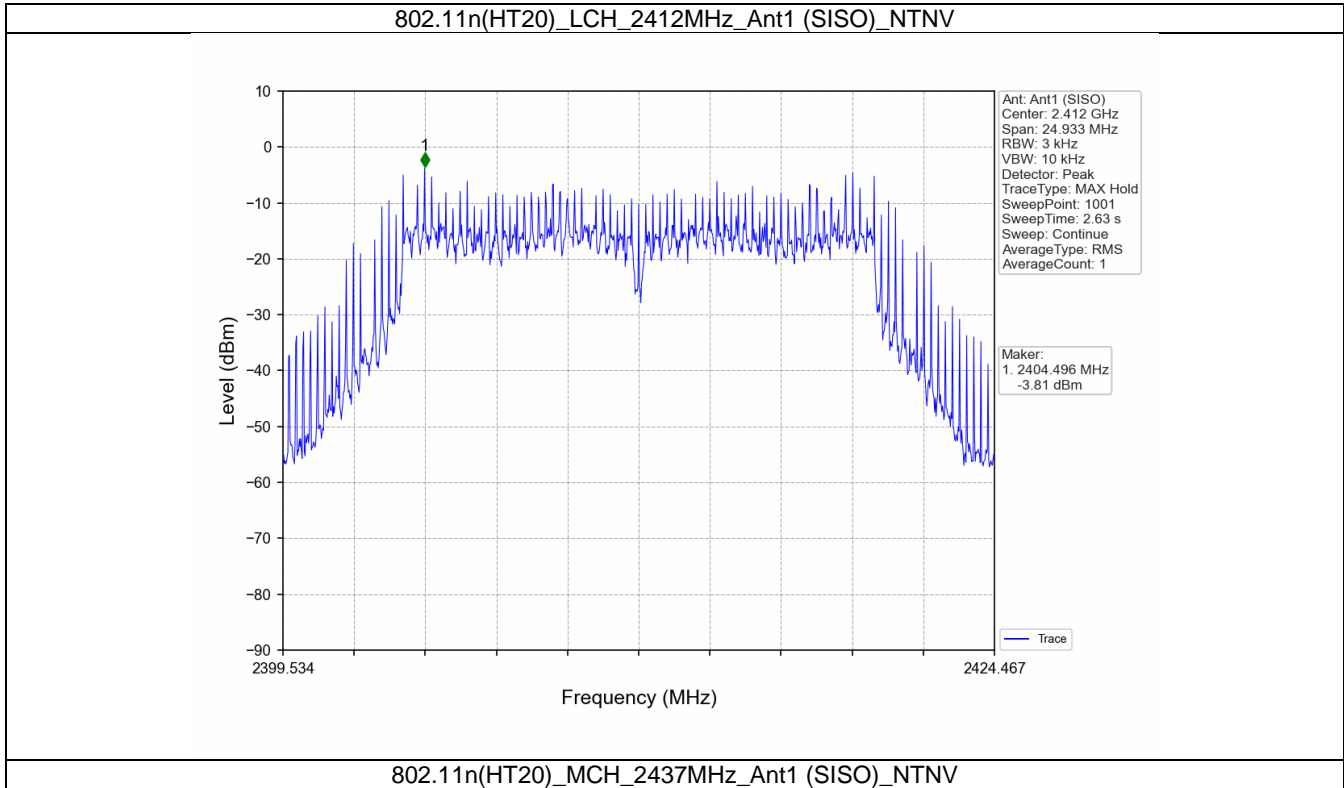


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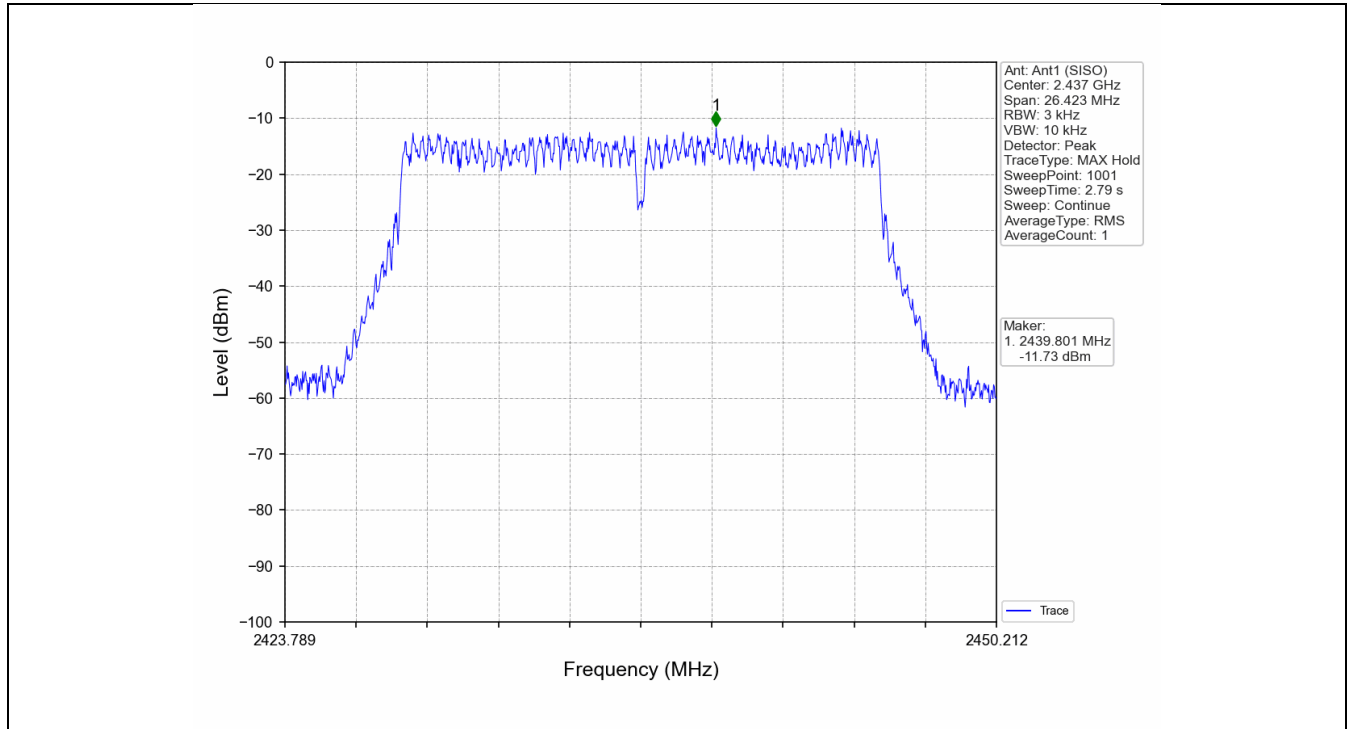


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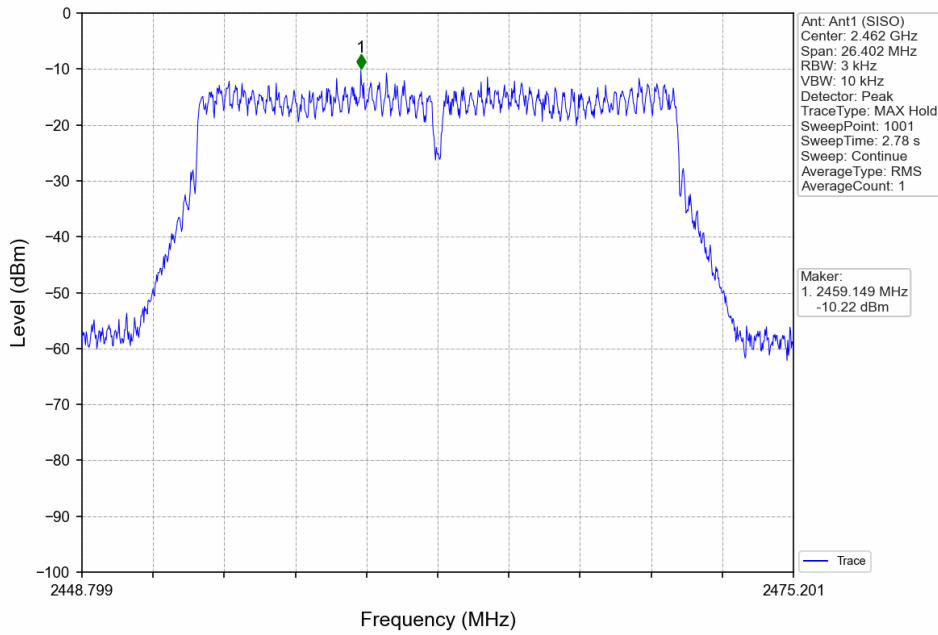
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

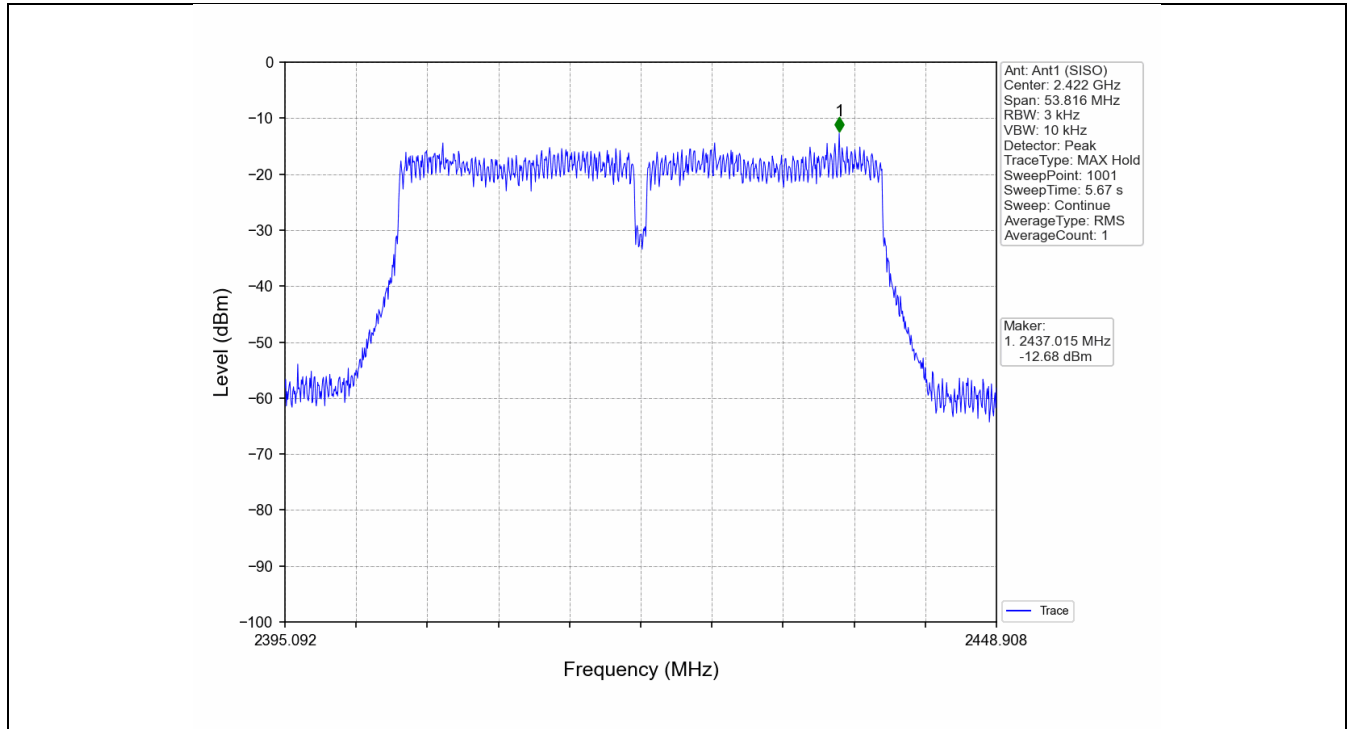


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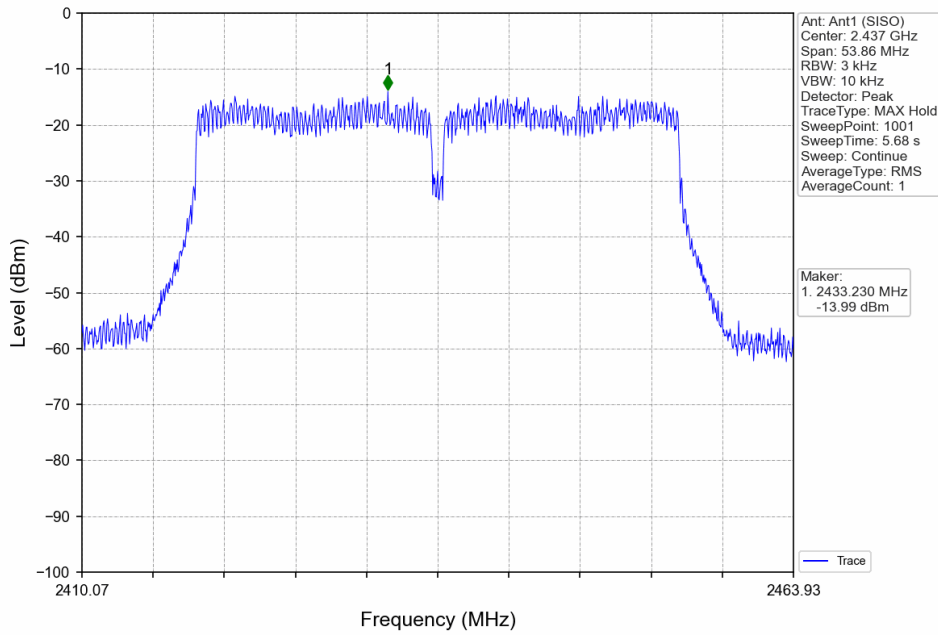
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

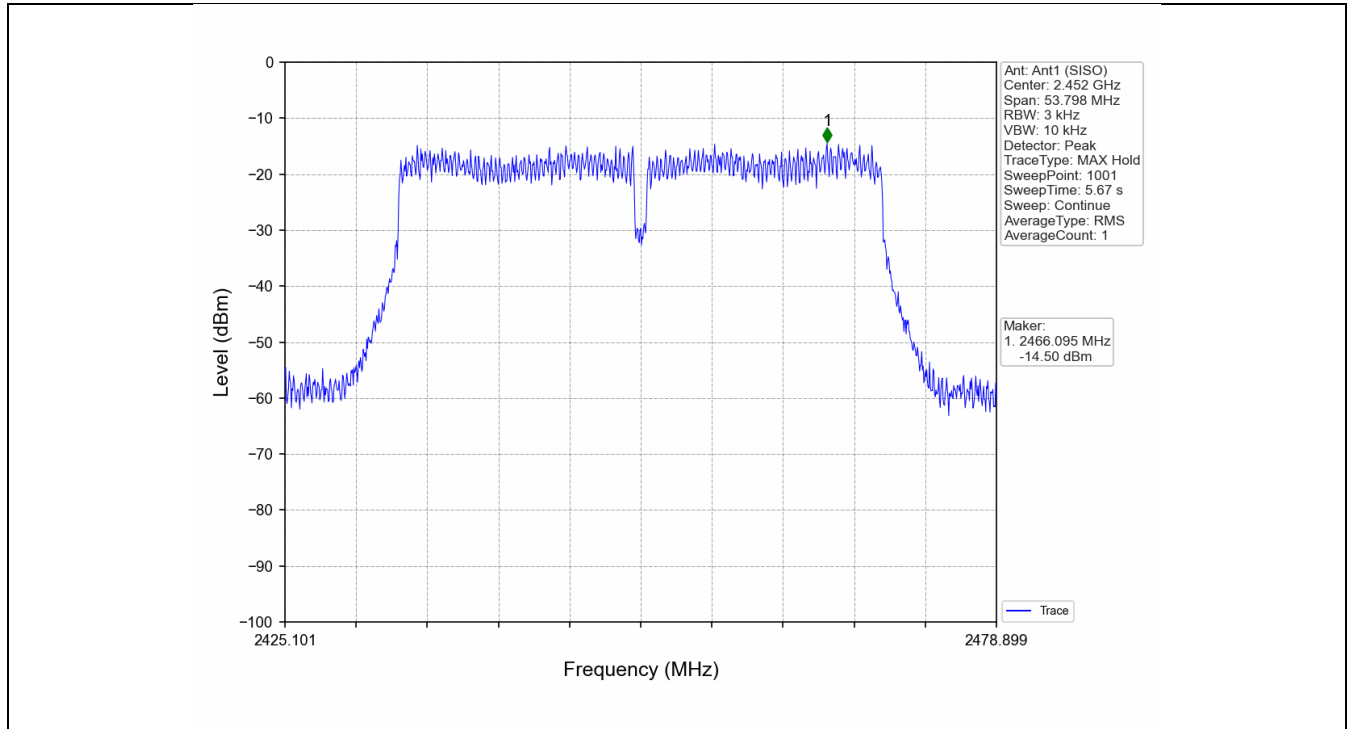


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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	8.02
		2437	1	8.02
		2462	1	8.41
802.11g	SISO	2412	1	4.87
		2437	1	4.71
		2462	1	5.13
802.11n (HT20)	SISO	2412	1	3.15
		2437	1	3.08
		2462	1	3.17
802.11n (HT40)	SISO	2422	1	0.36
		2437	1	0.51
		2452	1	0.46

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

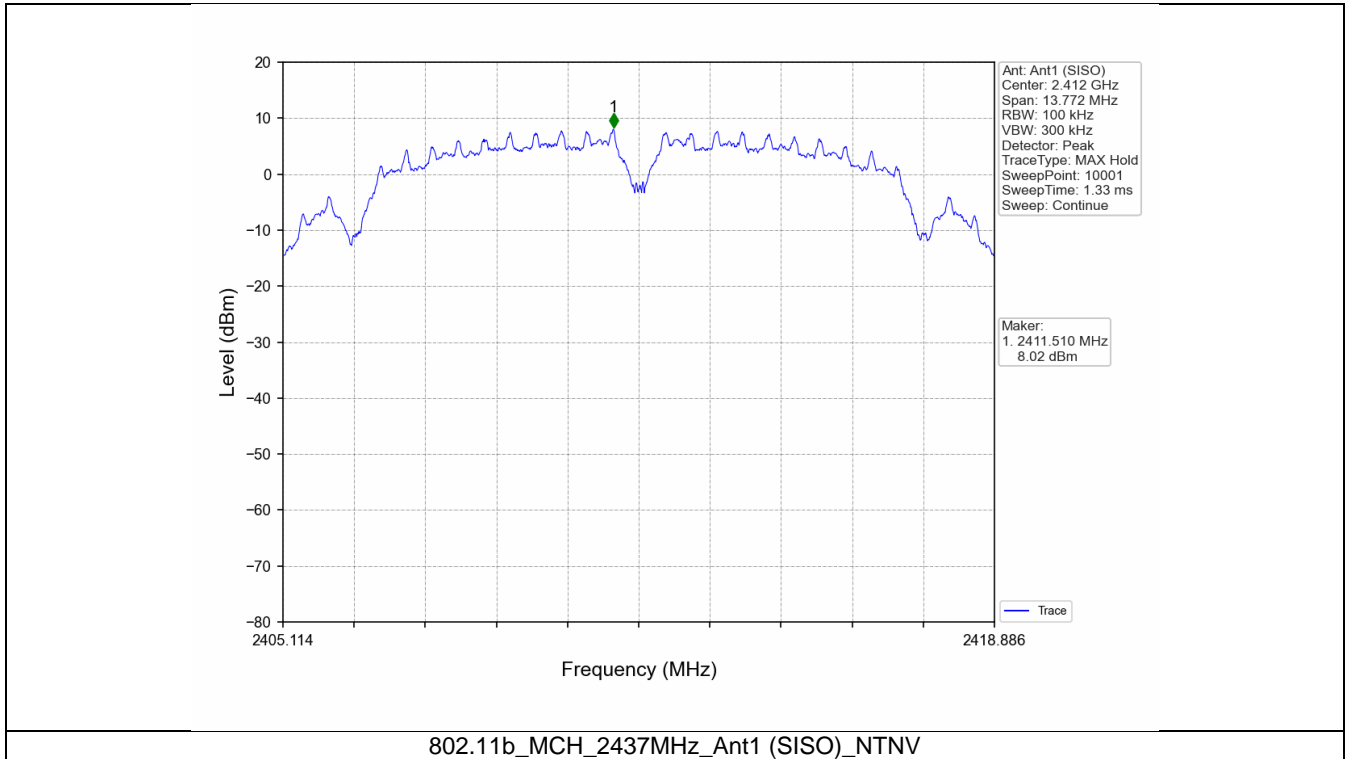
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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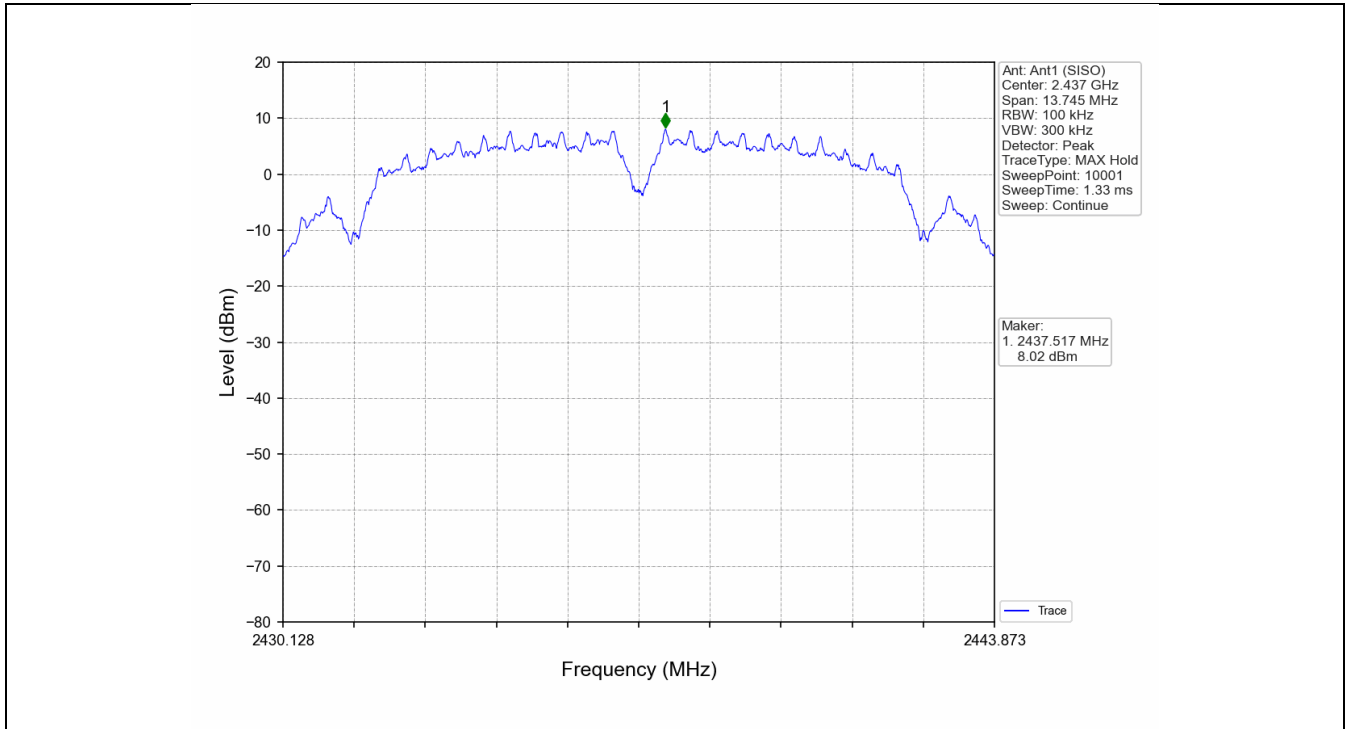


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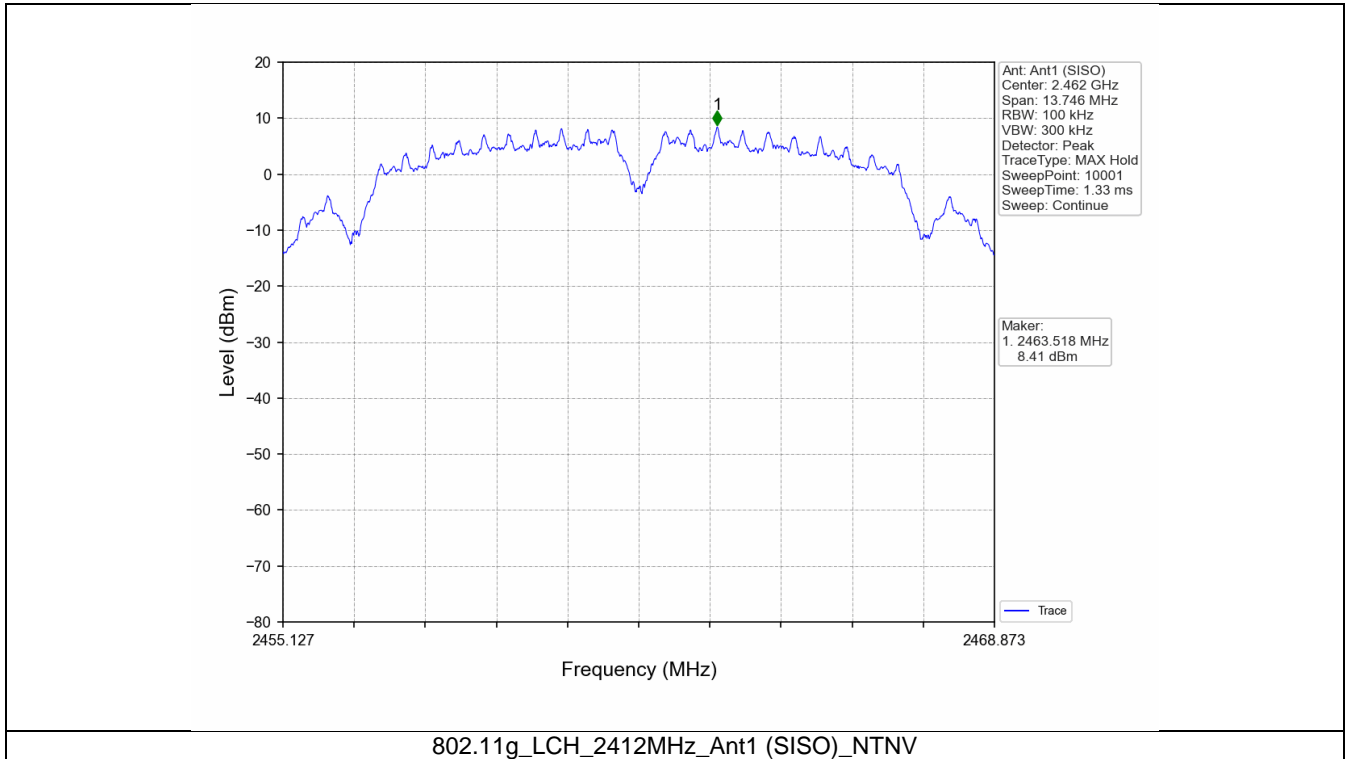


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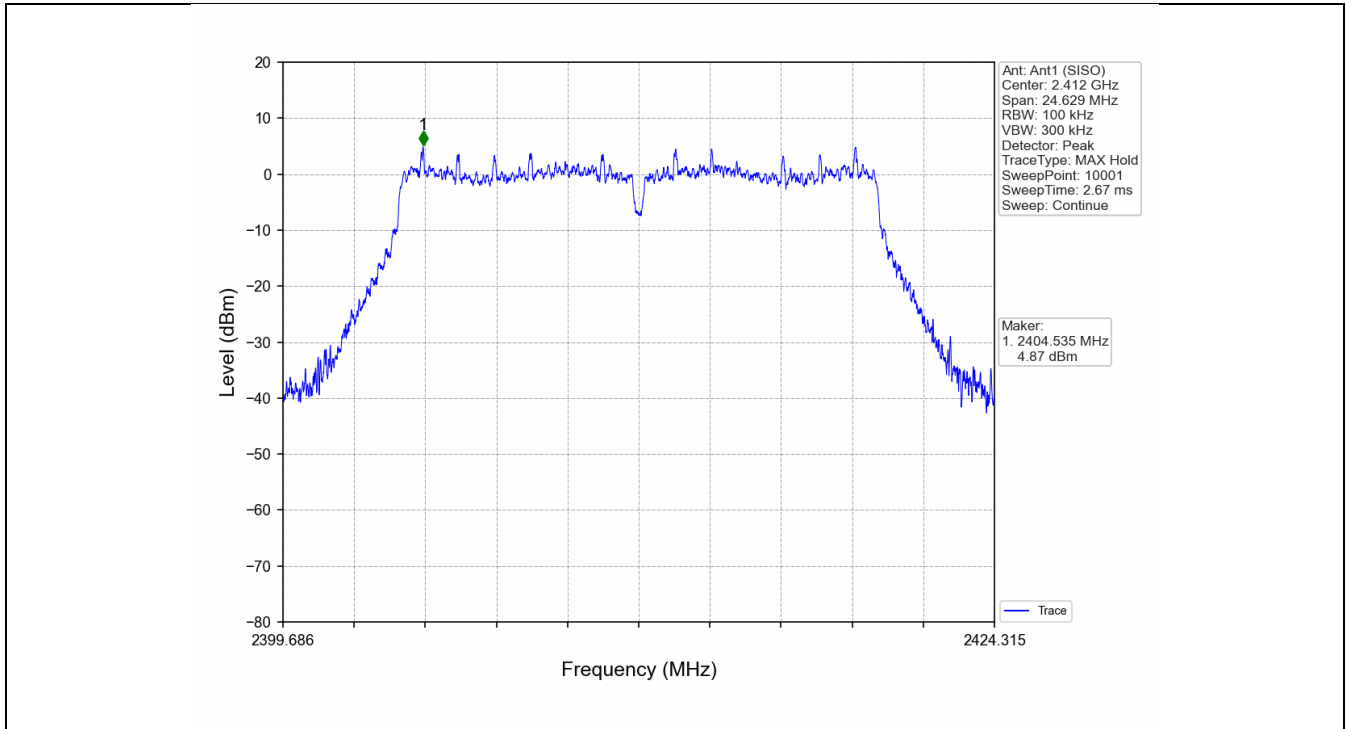


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

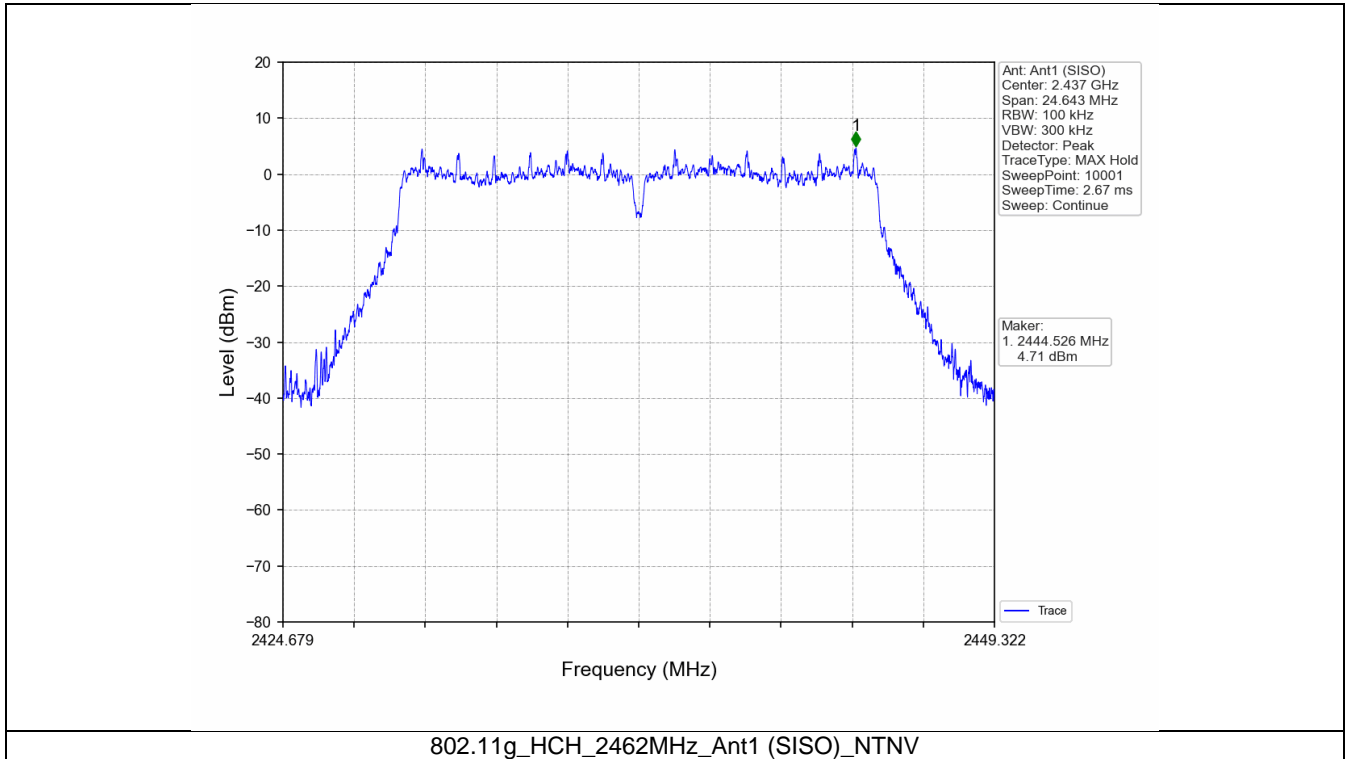


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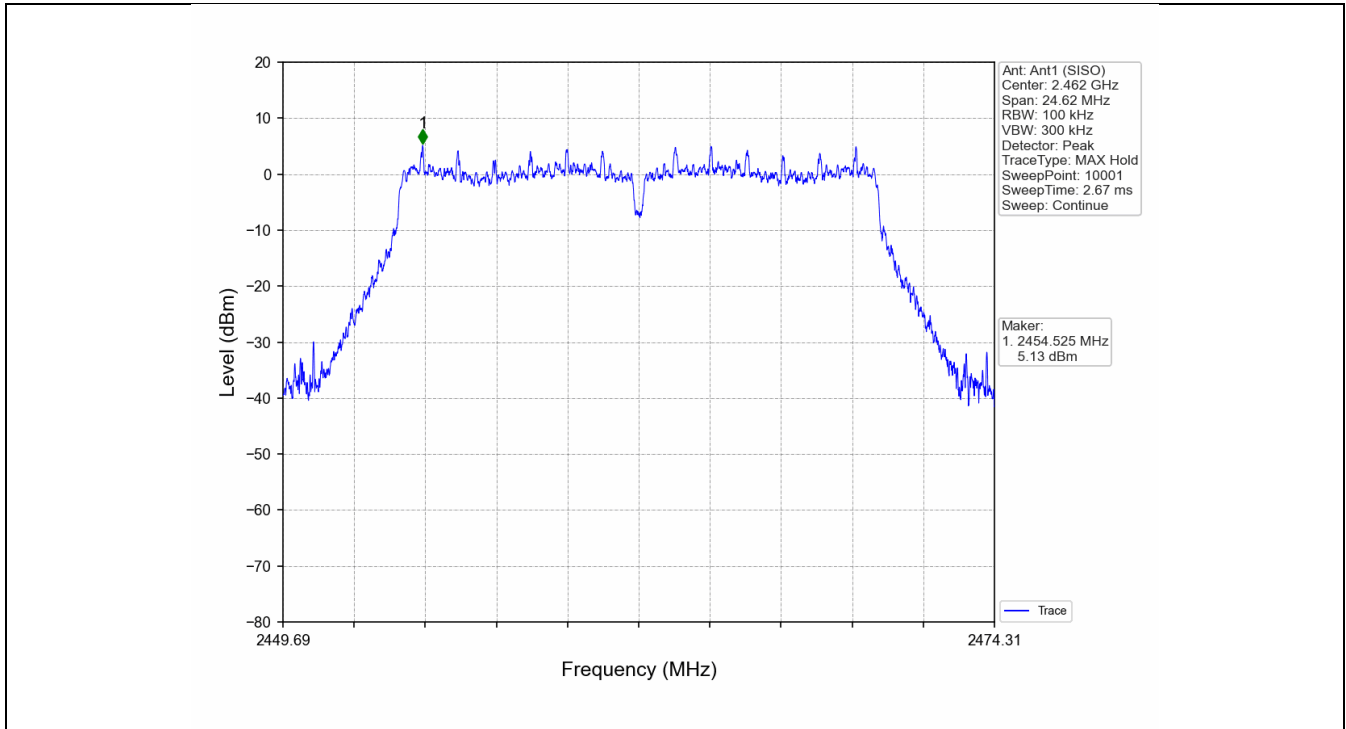
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

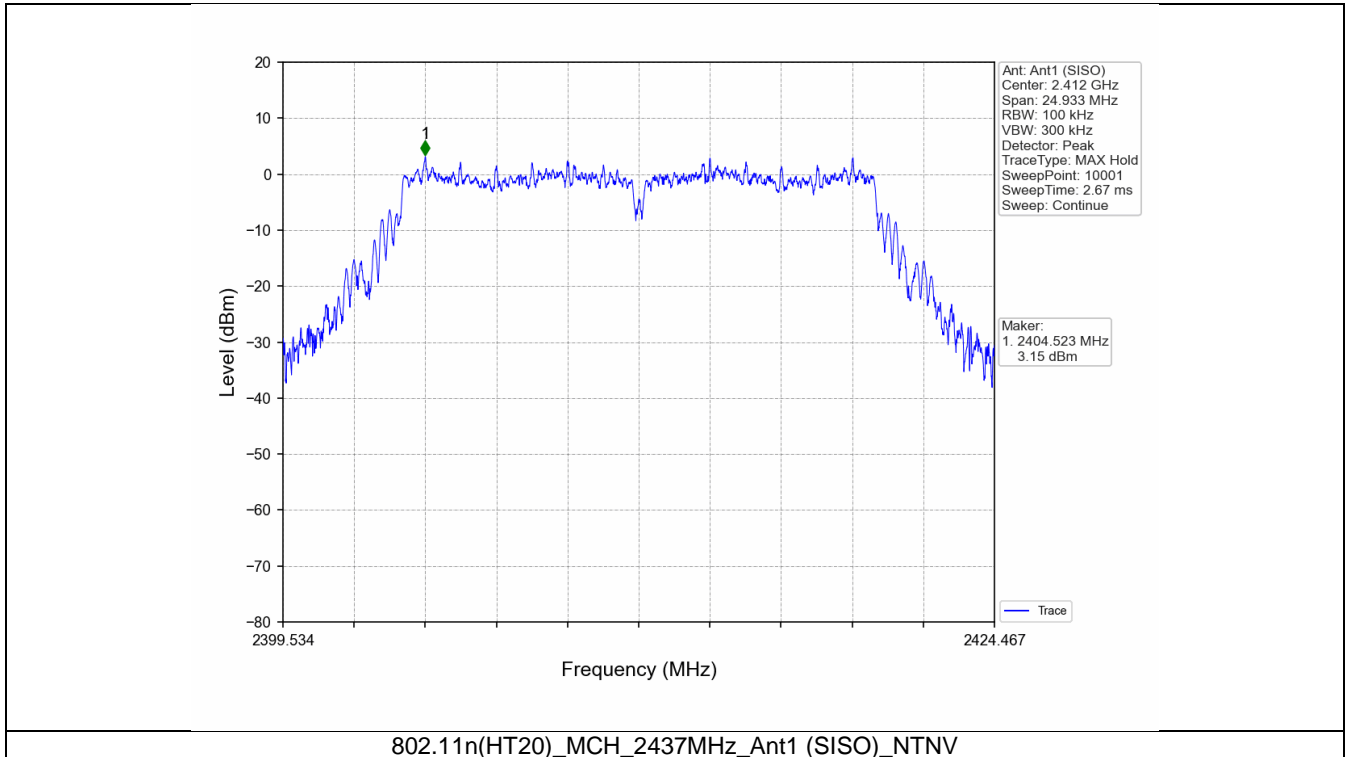


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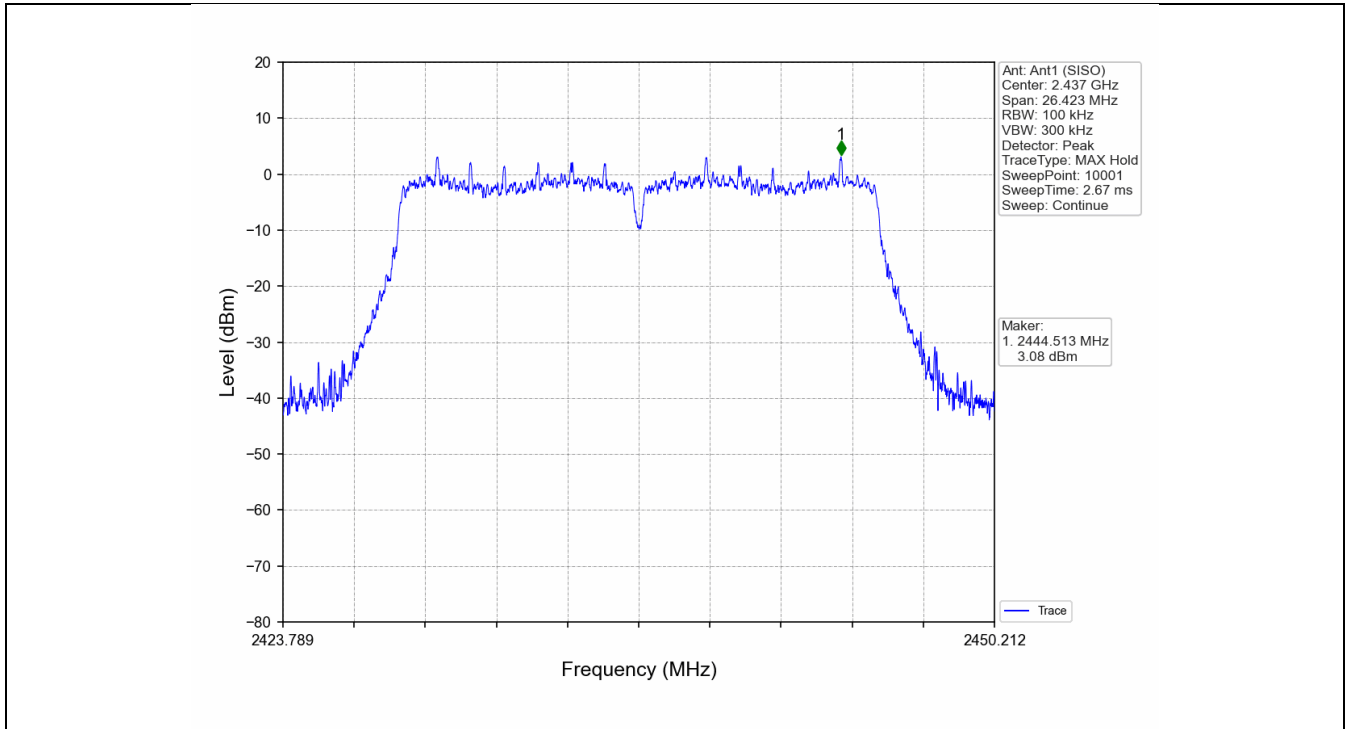
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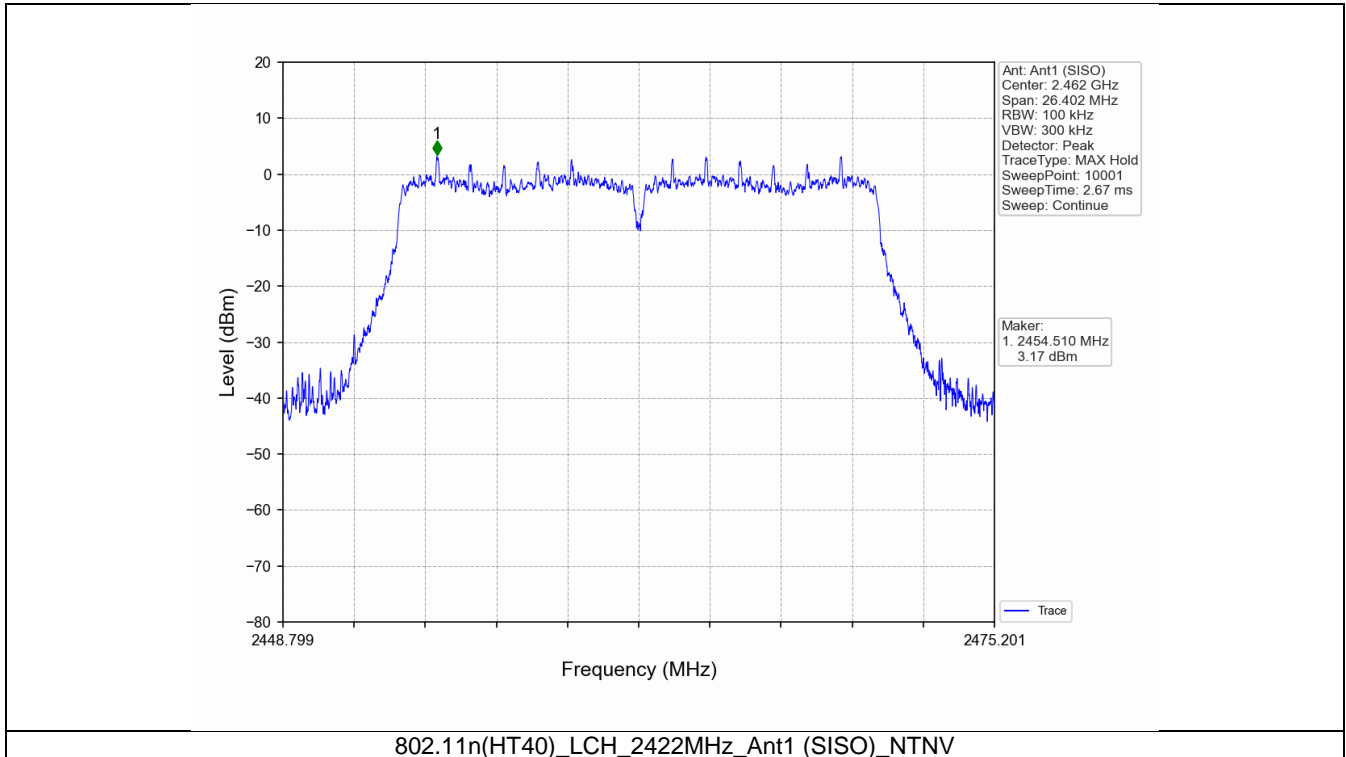
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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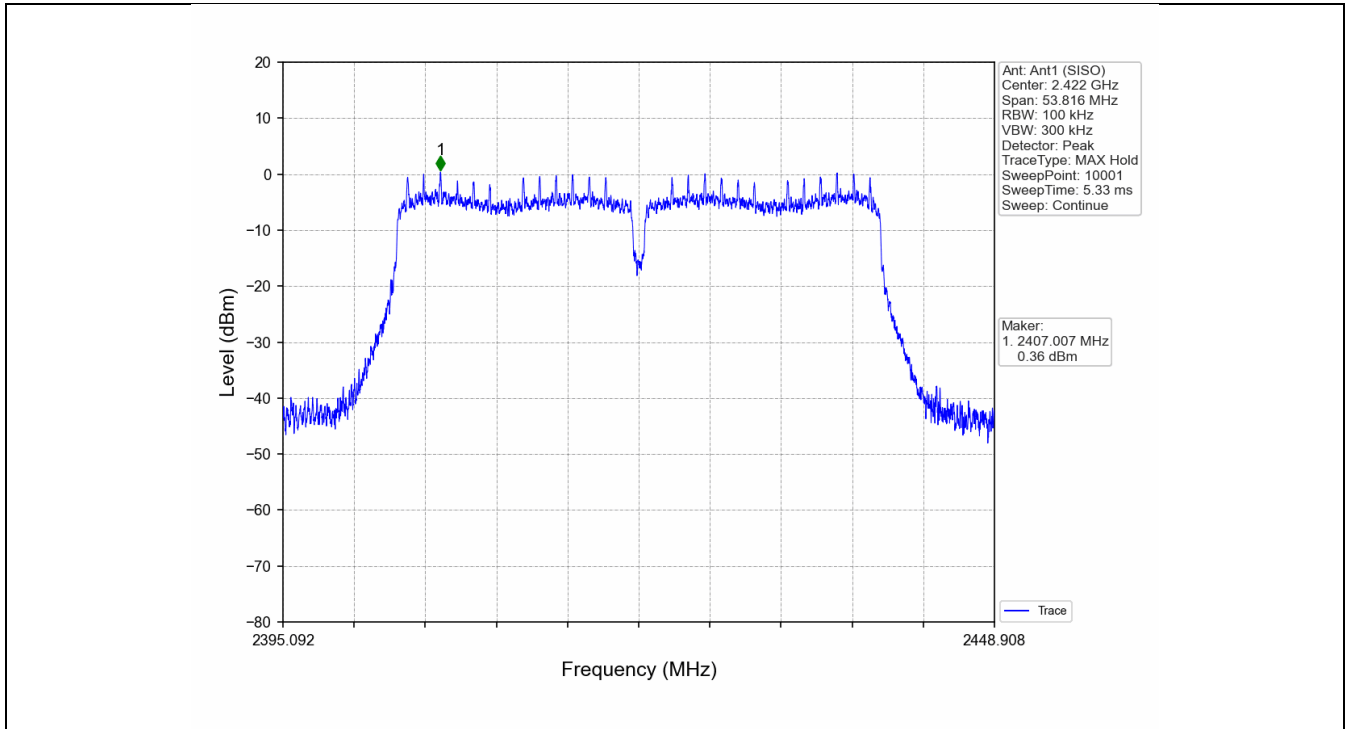
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

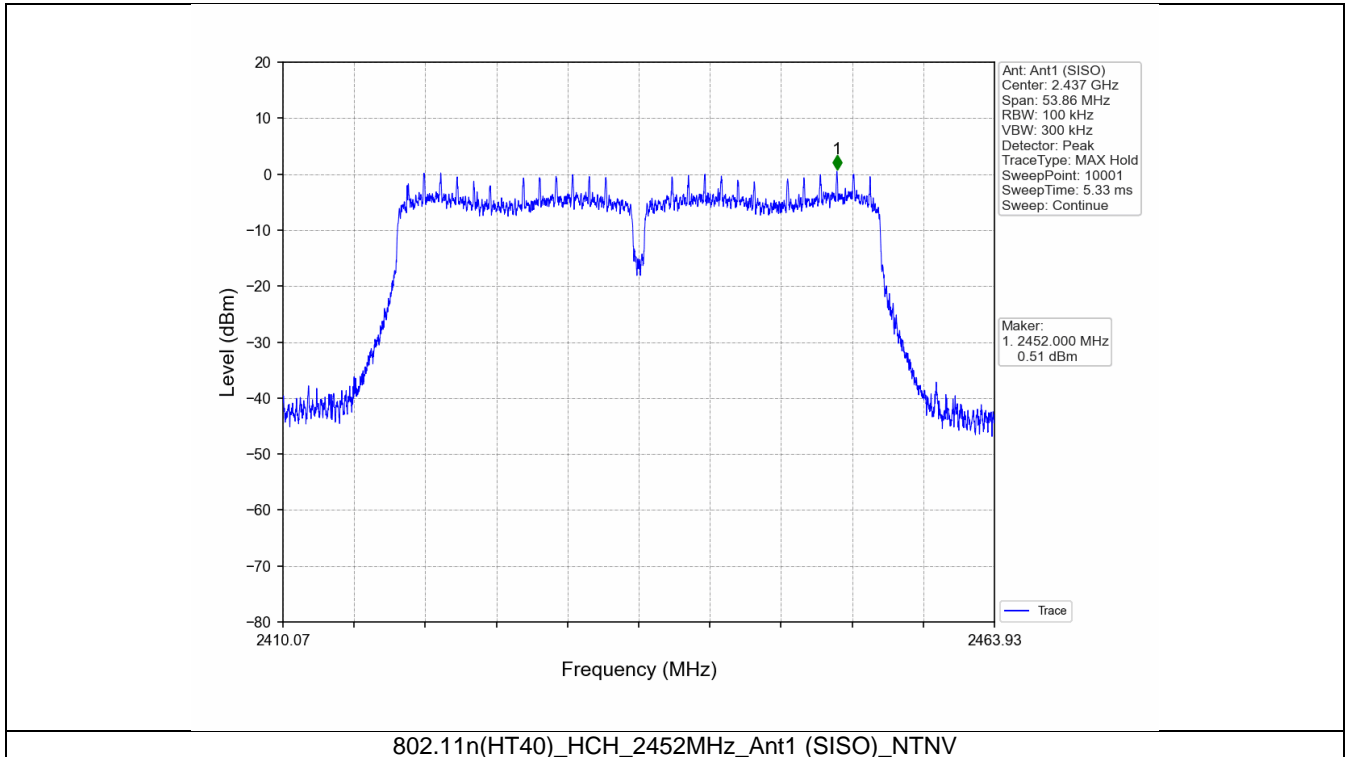


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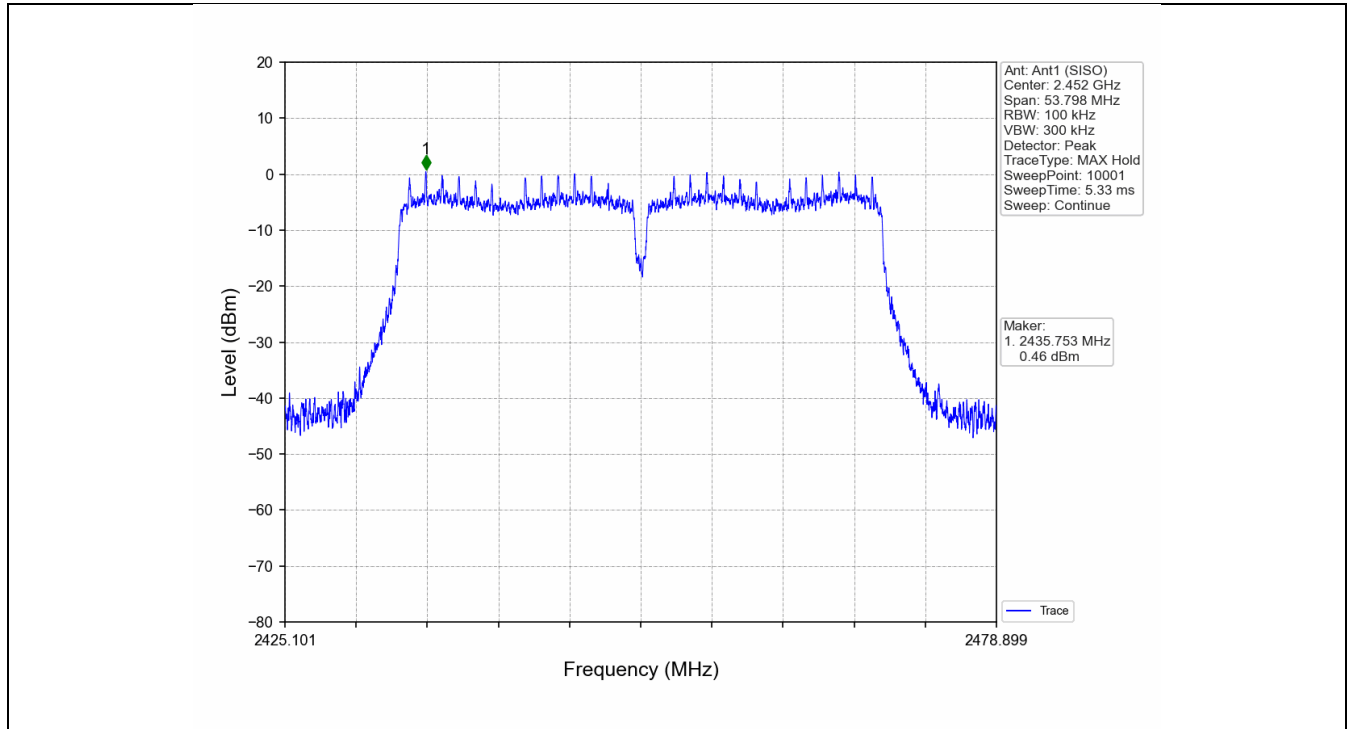
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.41	-21.59	Pass
		2437	1	8.41	-21.59	Pass
		2462	1	8.41	-21.59	Pass
802.11g	SISO	2412	1	5.13	-24.87	Pass
		2437	1	5.13	-24.87	Pass
		2462	1	5.13	-24.87	Pass
802.11n (HT20)	SISO	2412	1	3.17	-26.83	Pass
		2437	1	3.17	-26.83	Pass
		2462	1	3.17	-26.83	Pass
802.11n (HT40)	SISO	2422	1	0.51	-29.49	Pass
		2437	1	0.51	-29.49	Pass
		2452	1	0.51	-29.49	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.



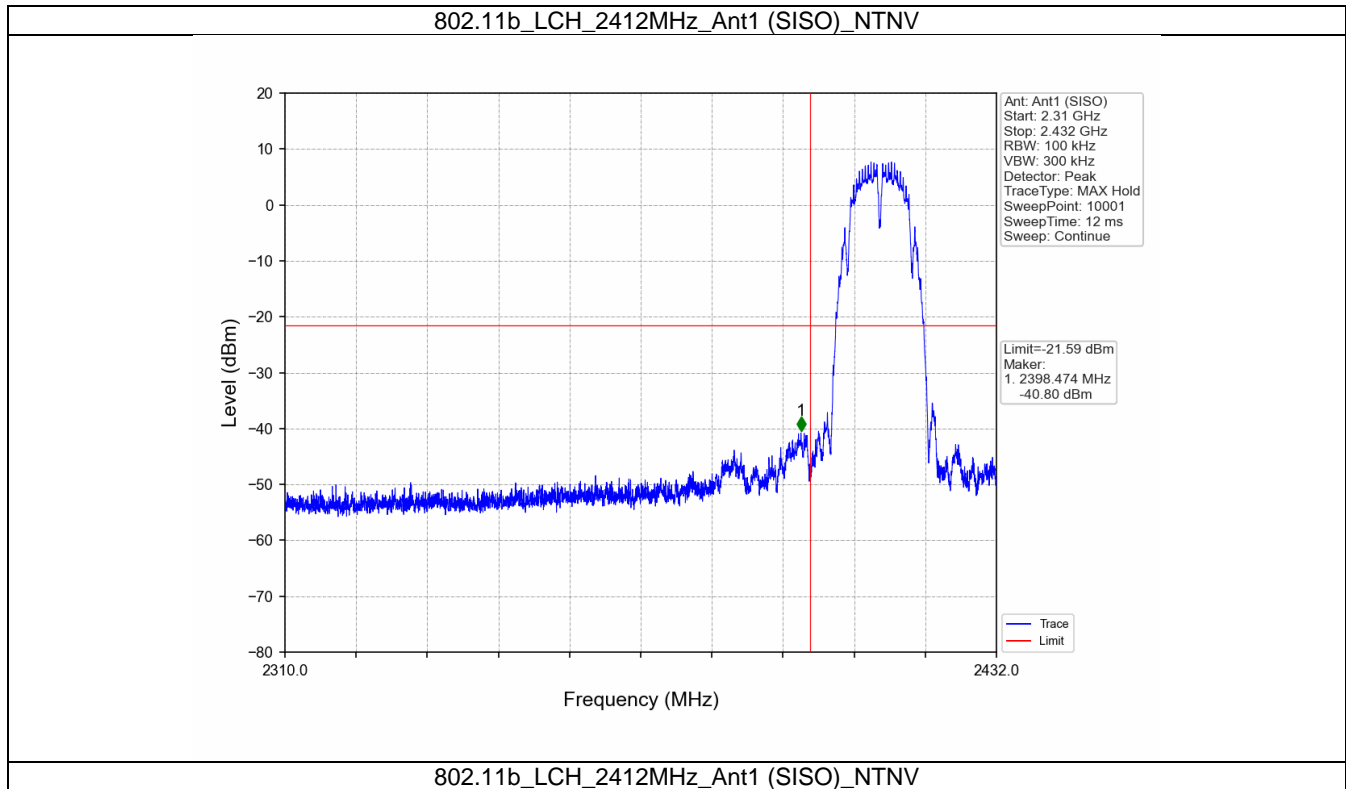
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5.2.2 Test Graph

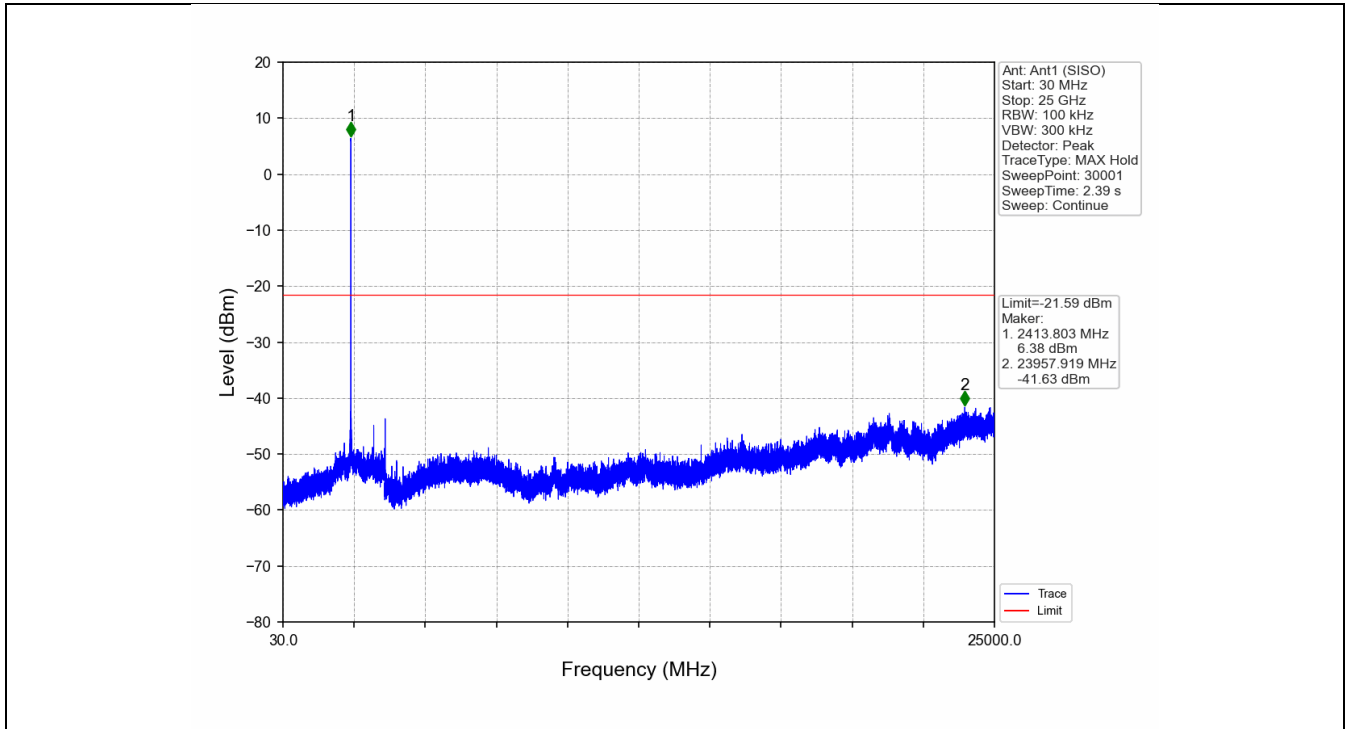


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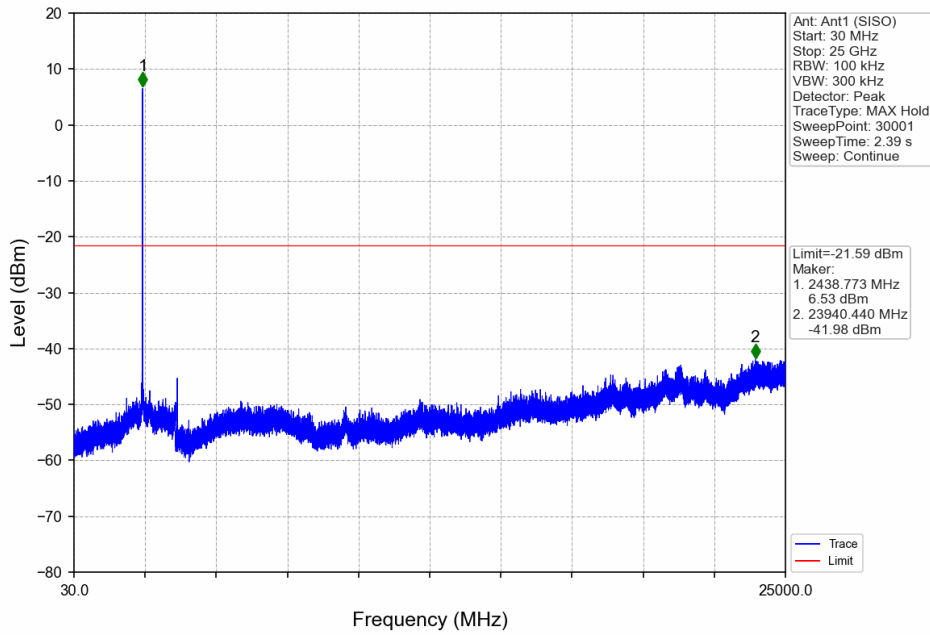
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

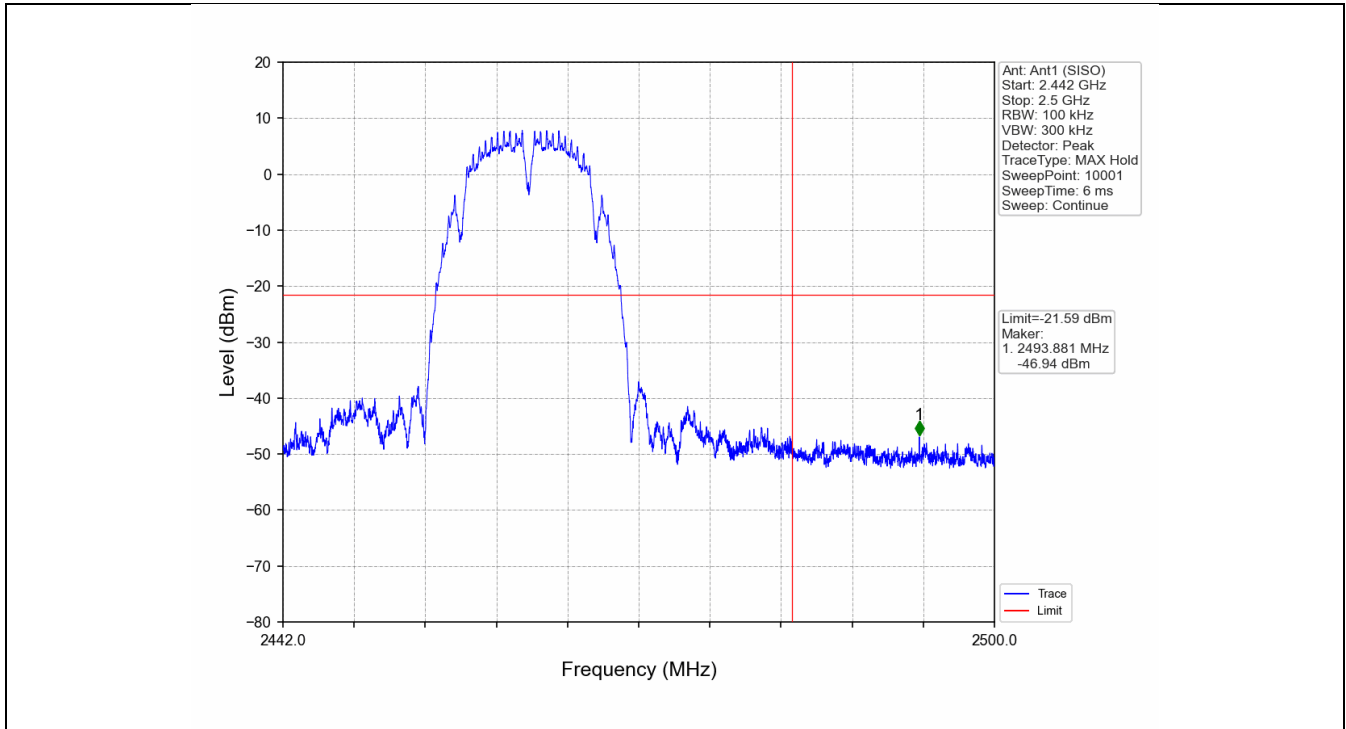


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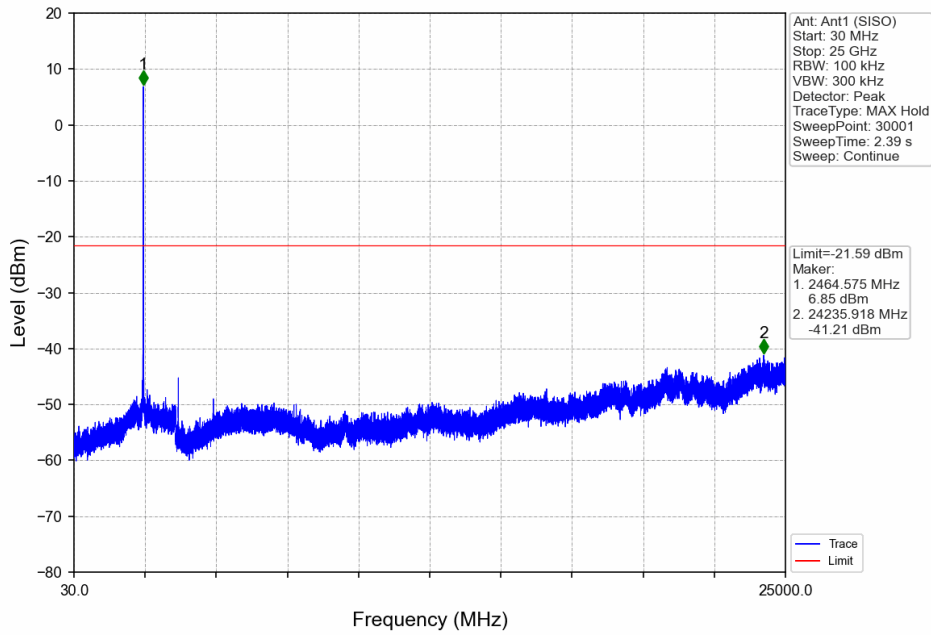


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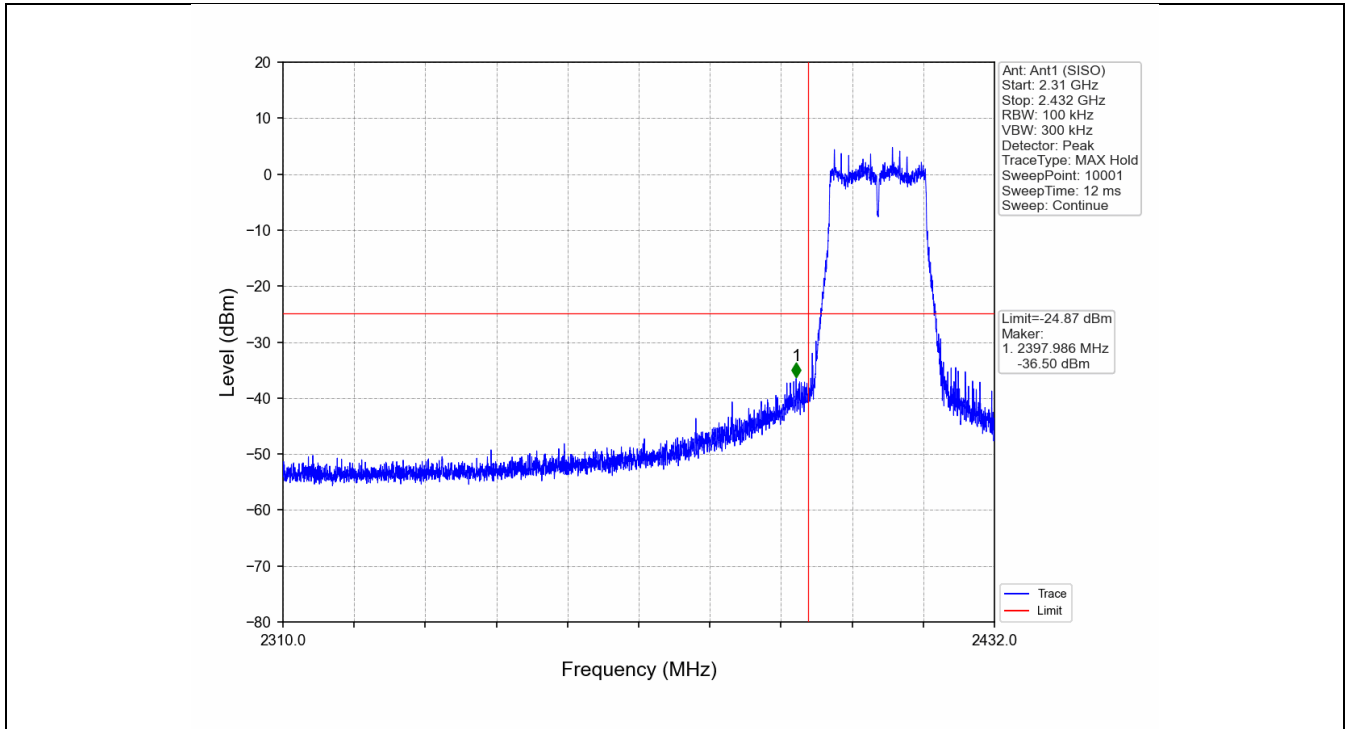


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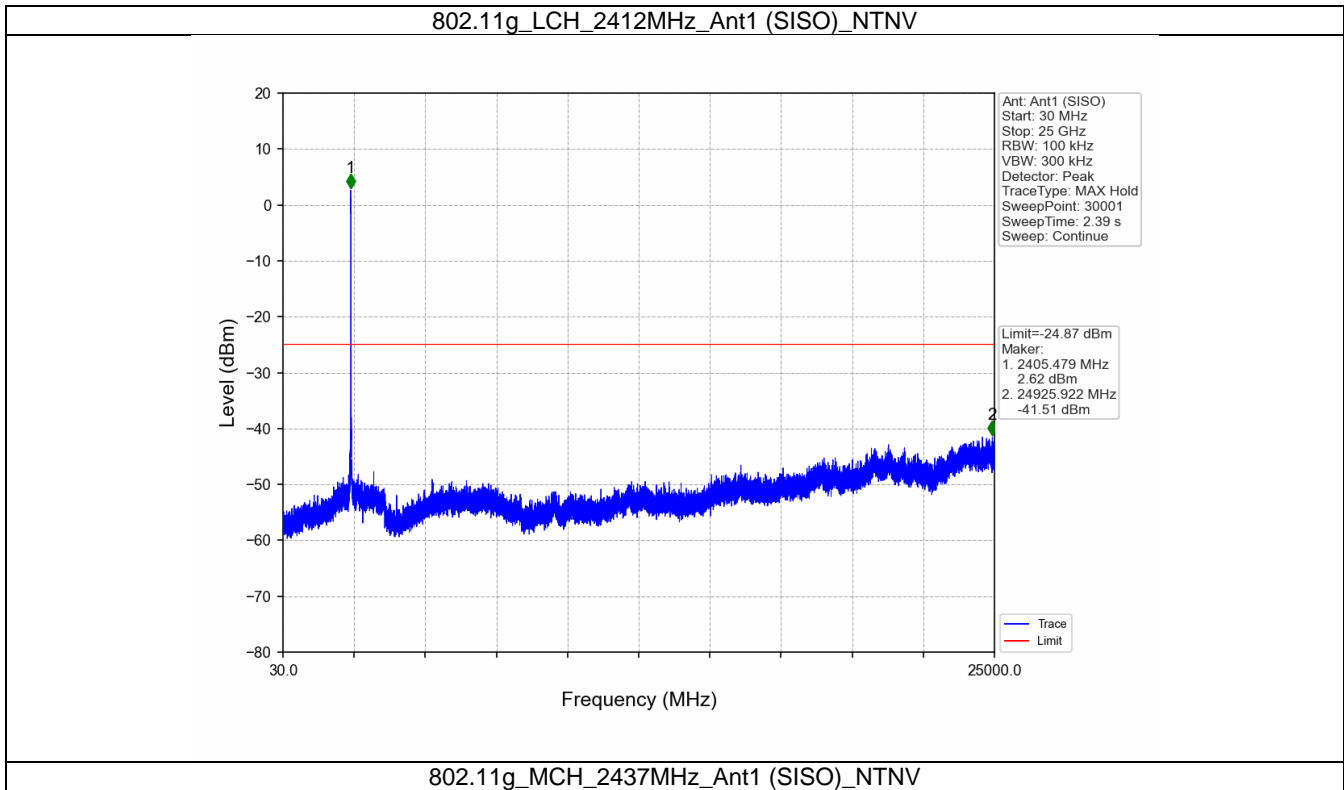


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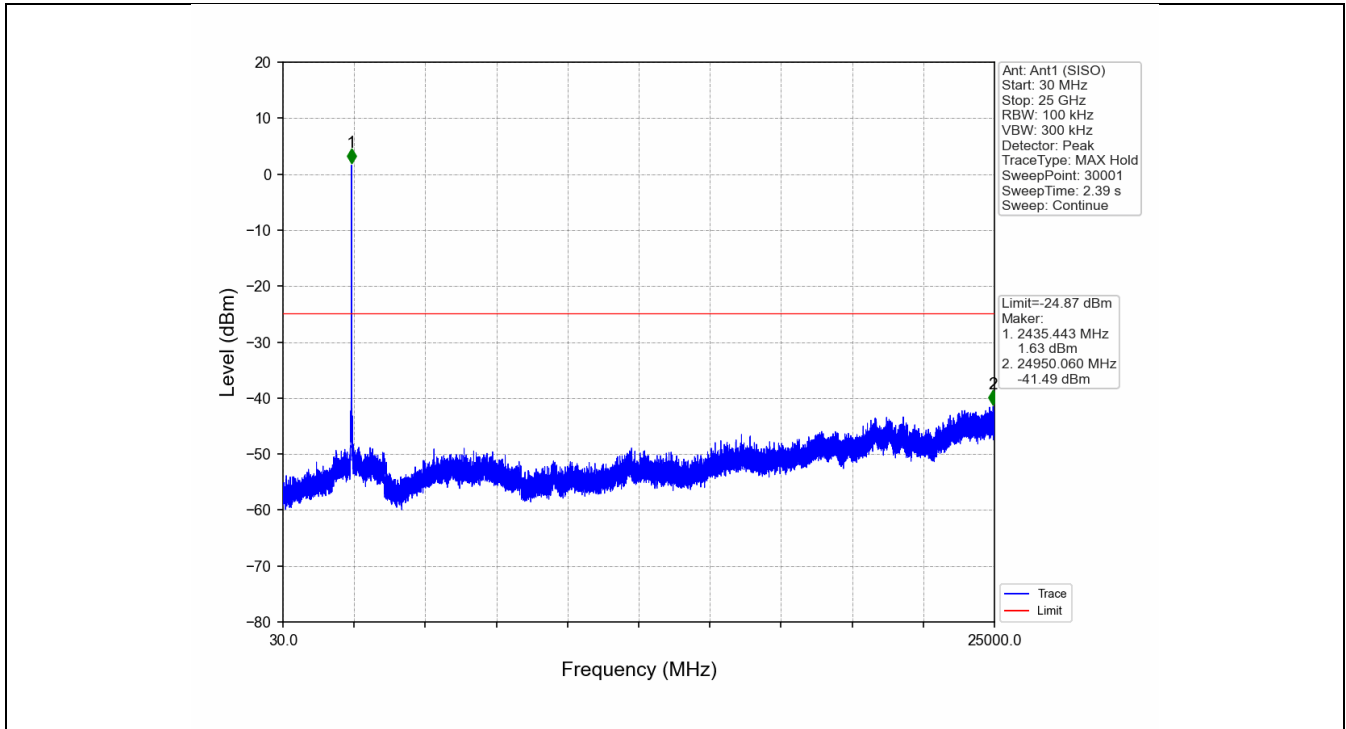


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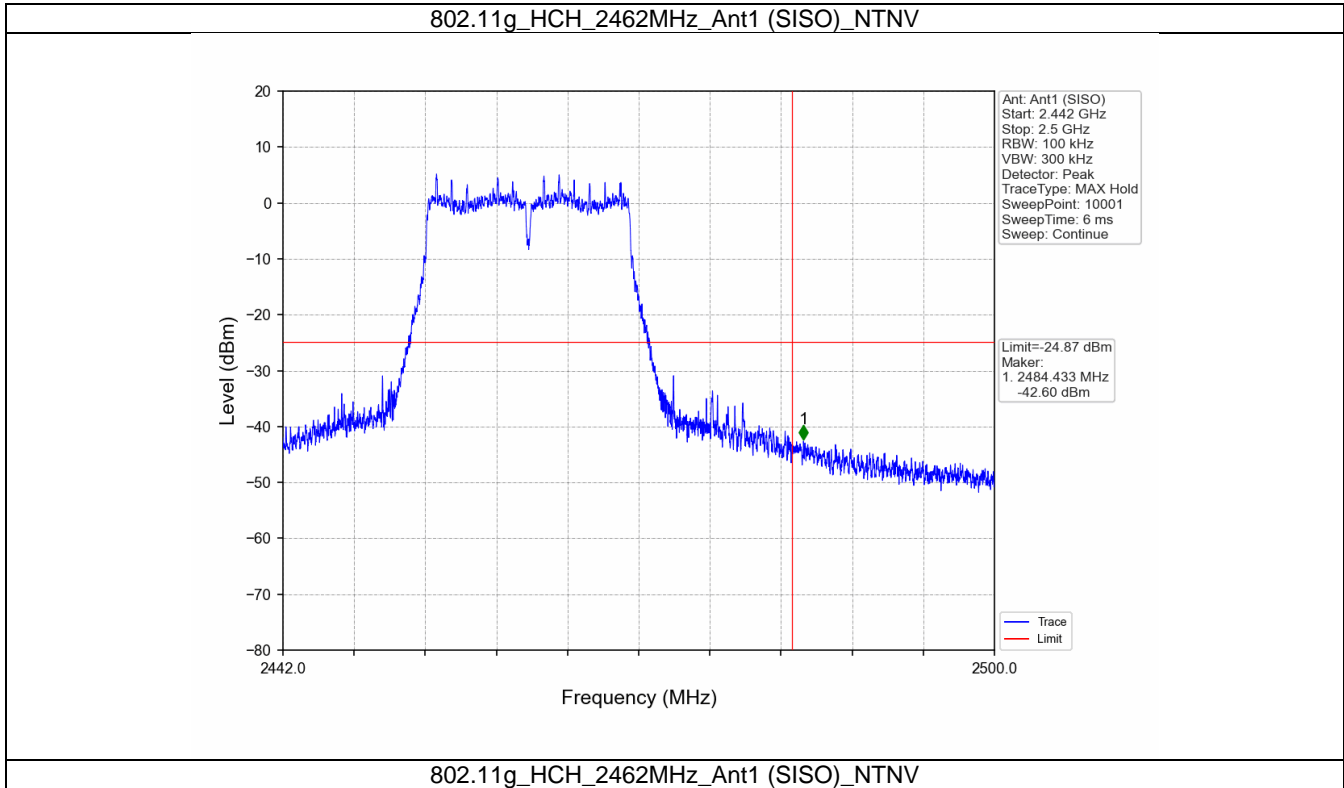


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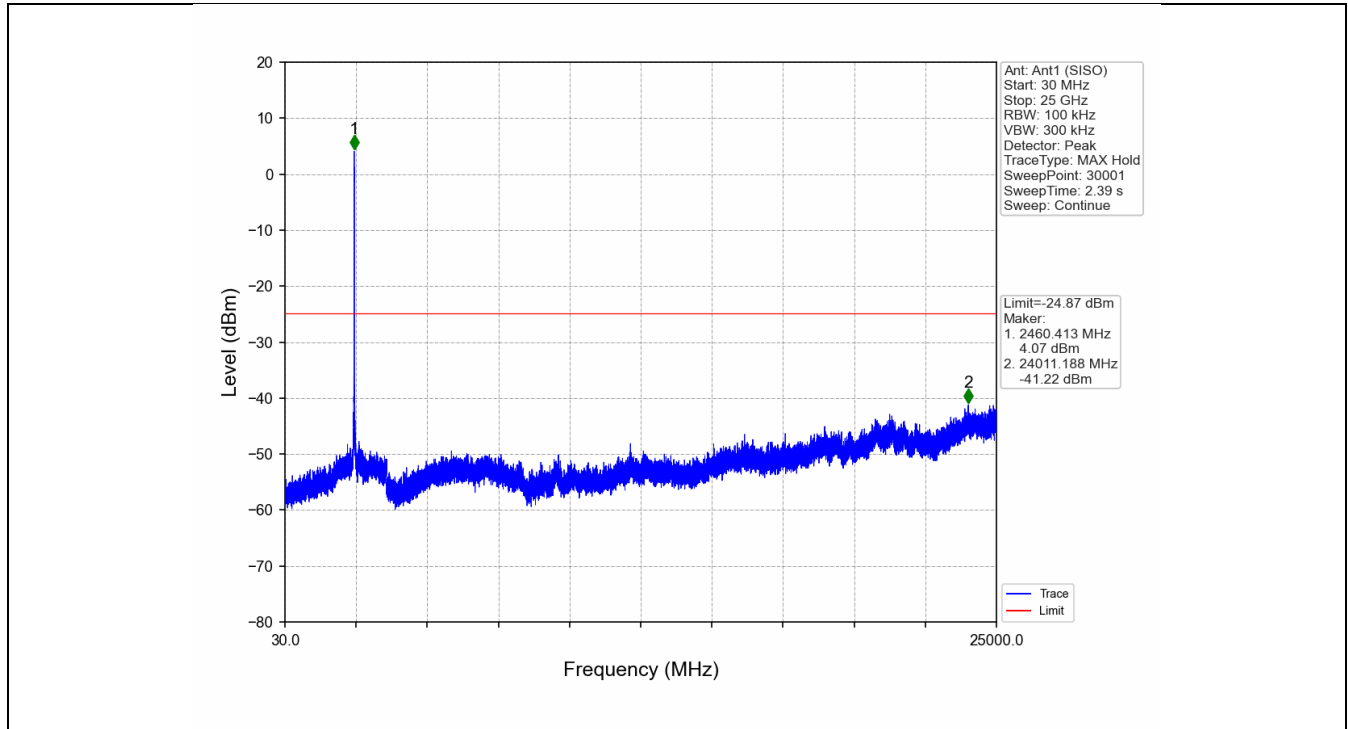


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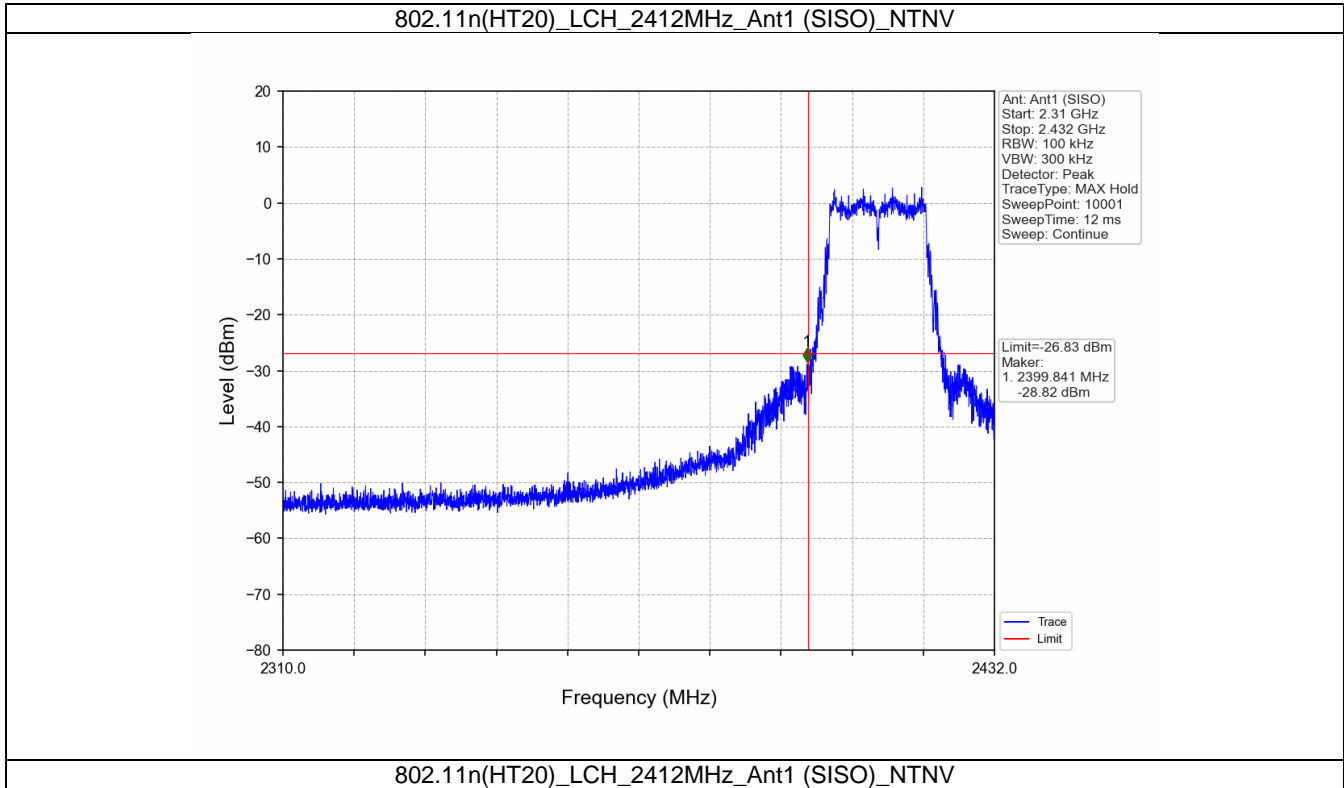


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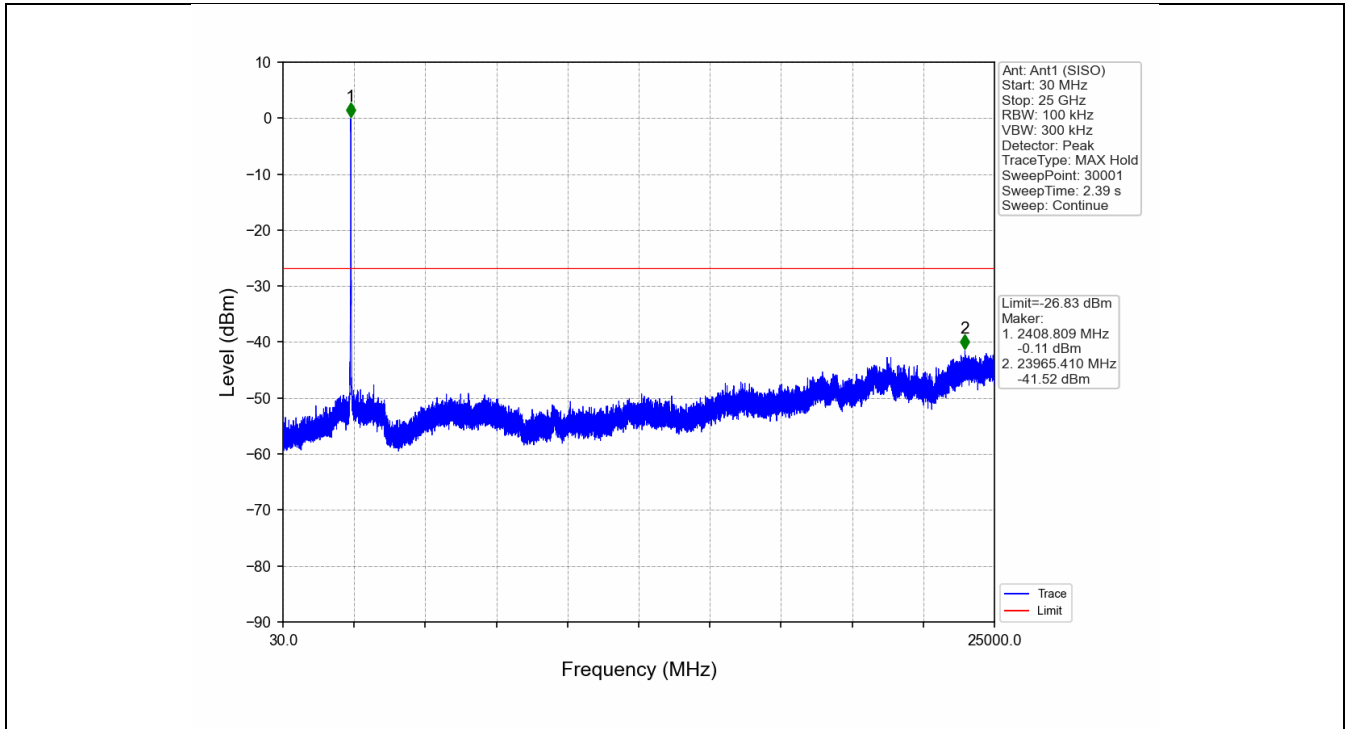


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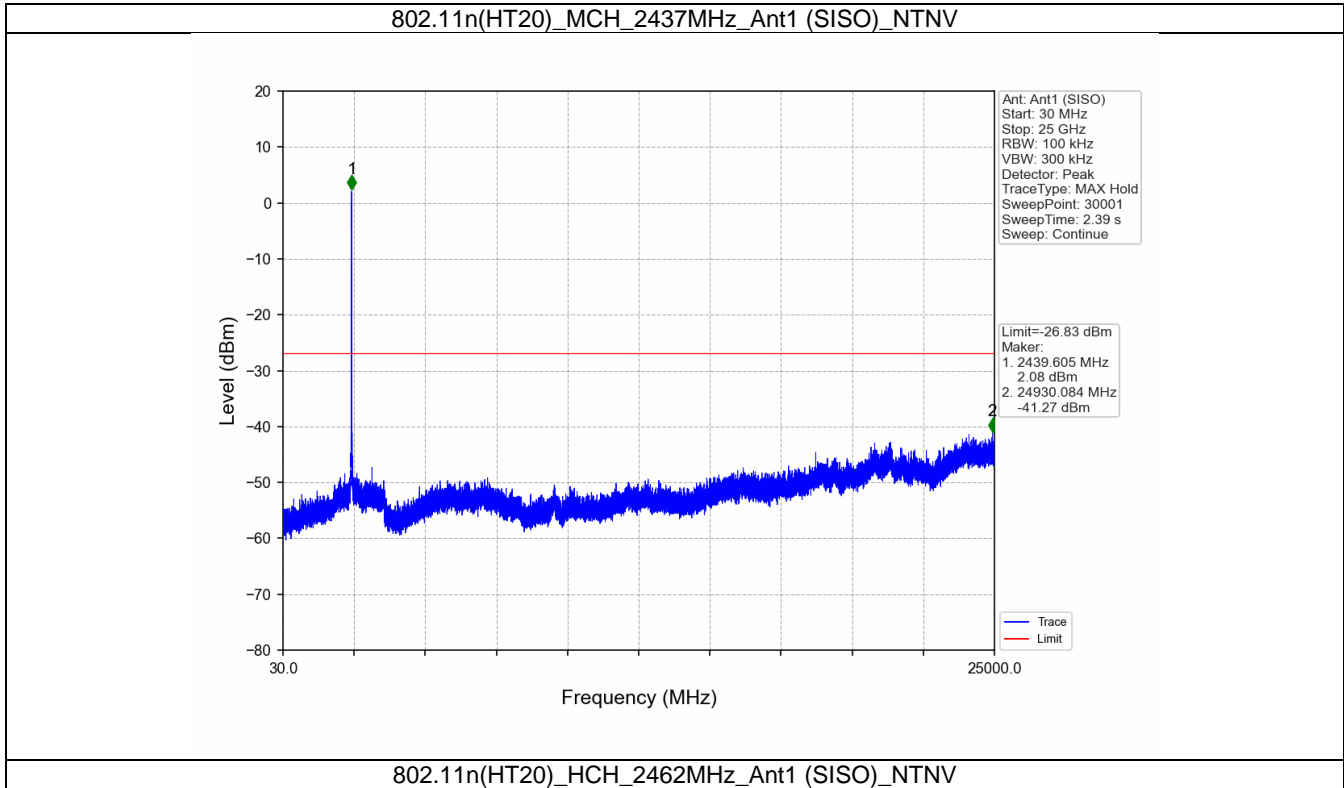


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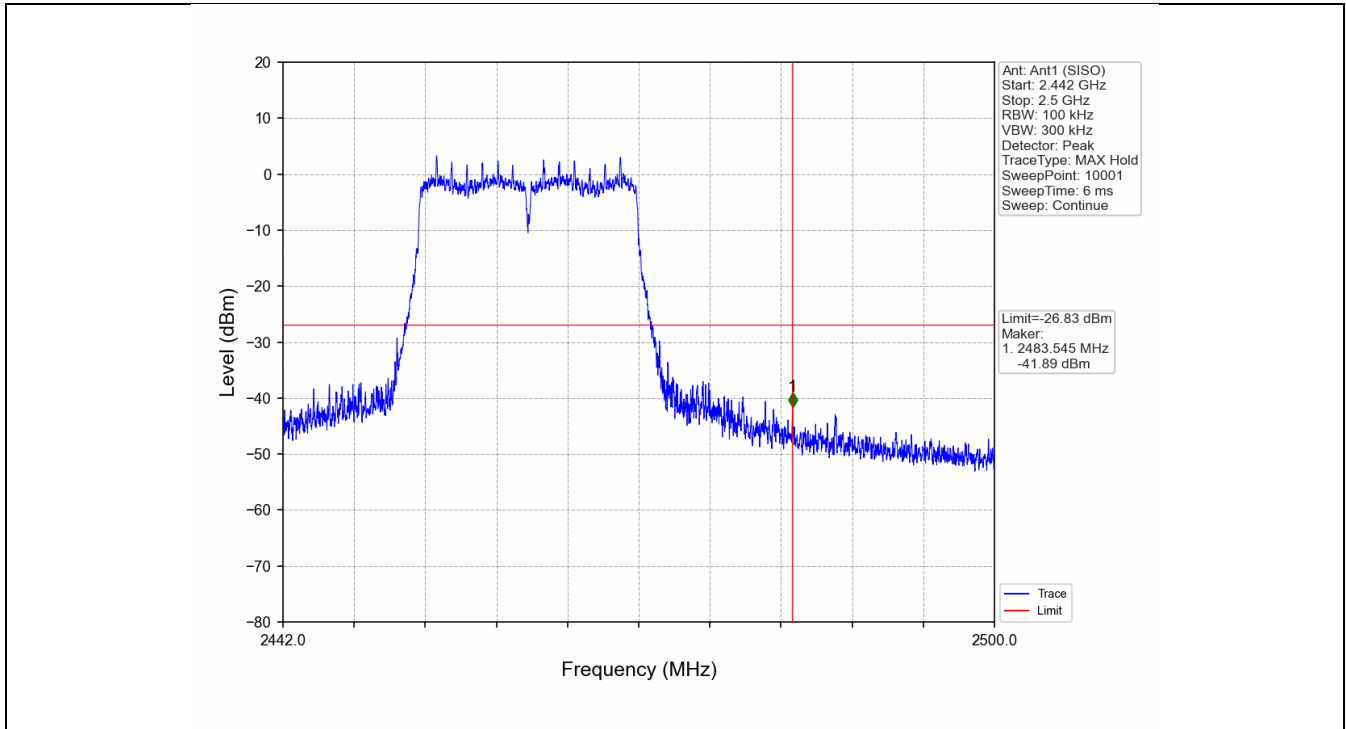


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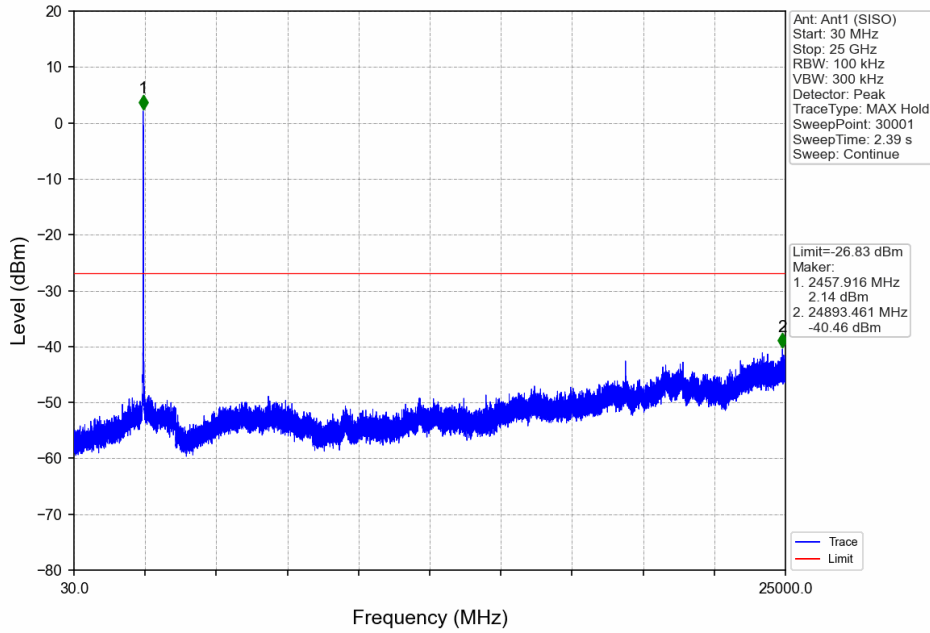
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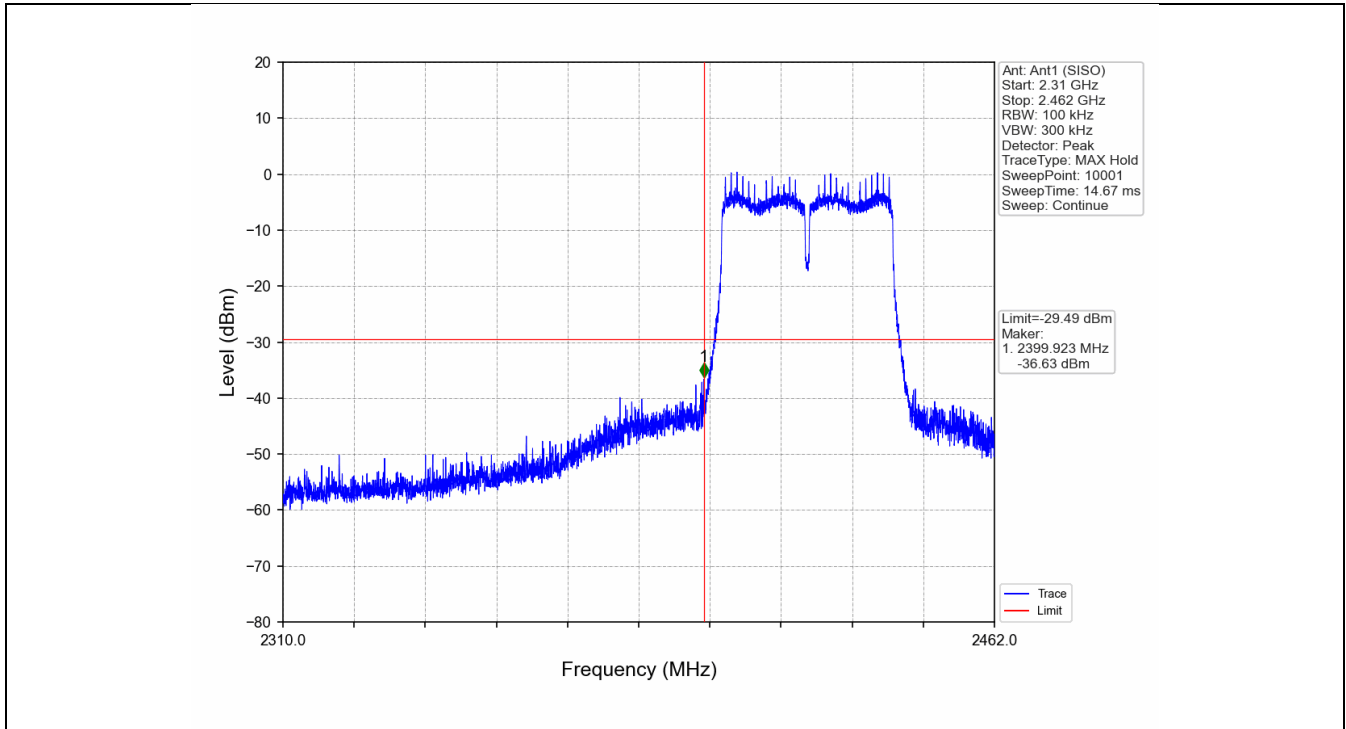


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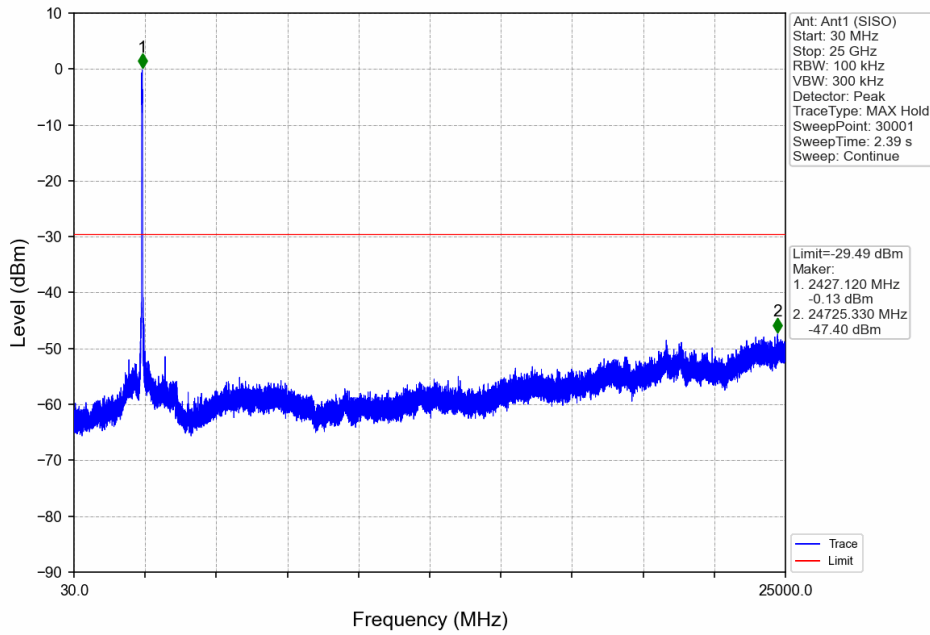
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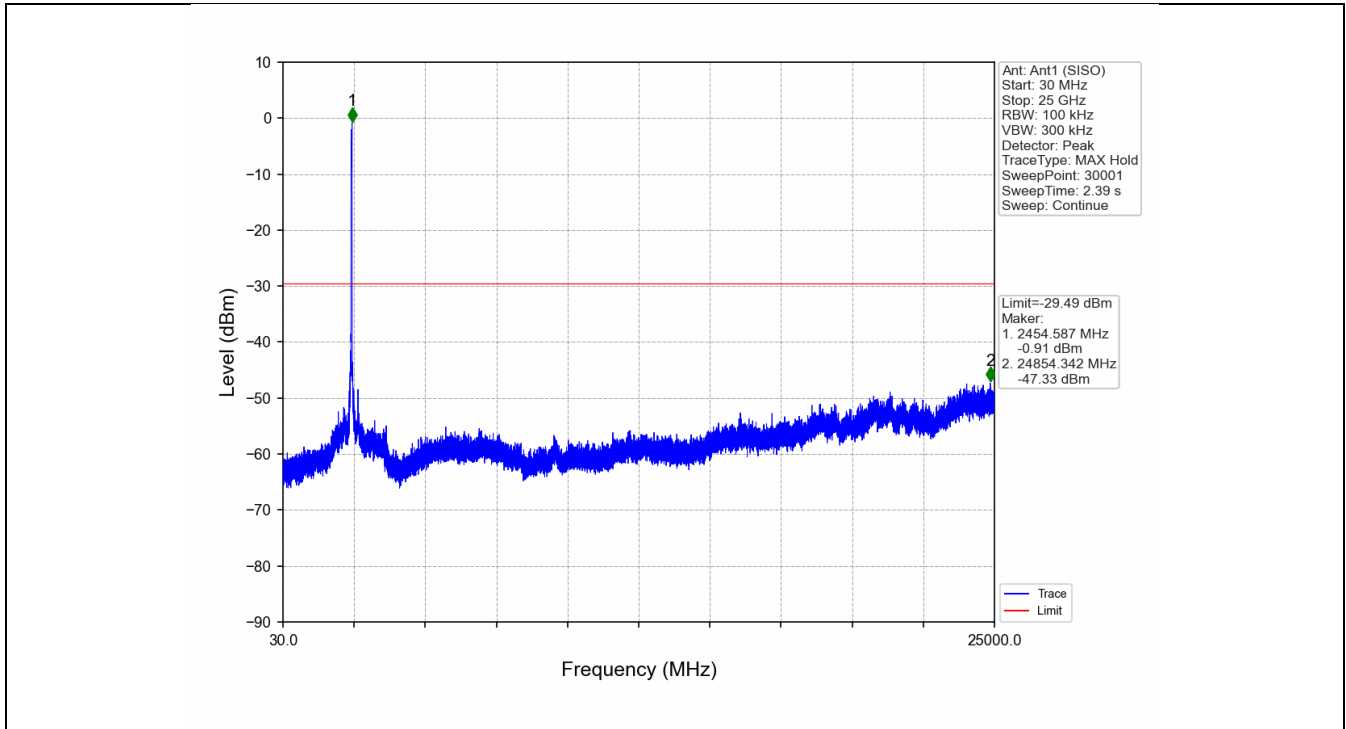


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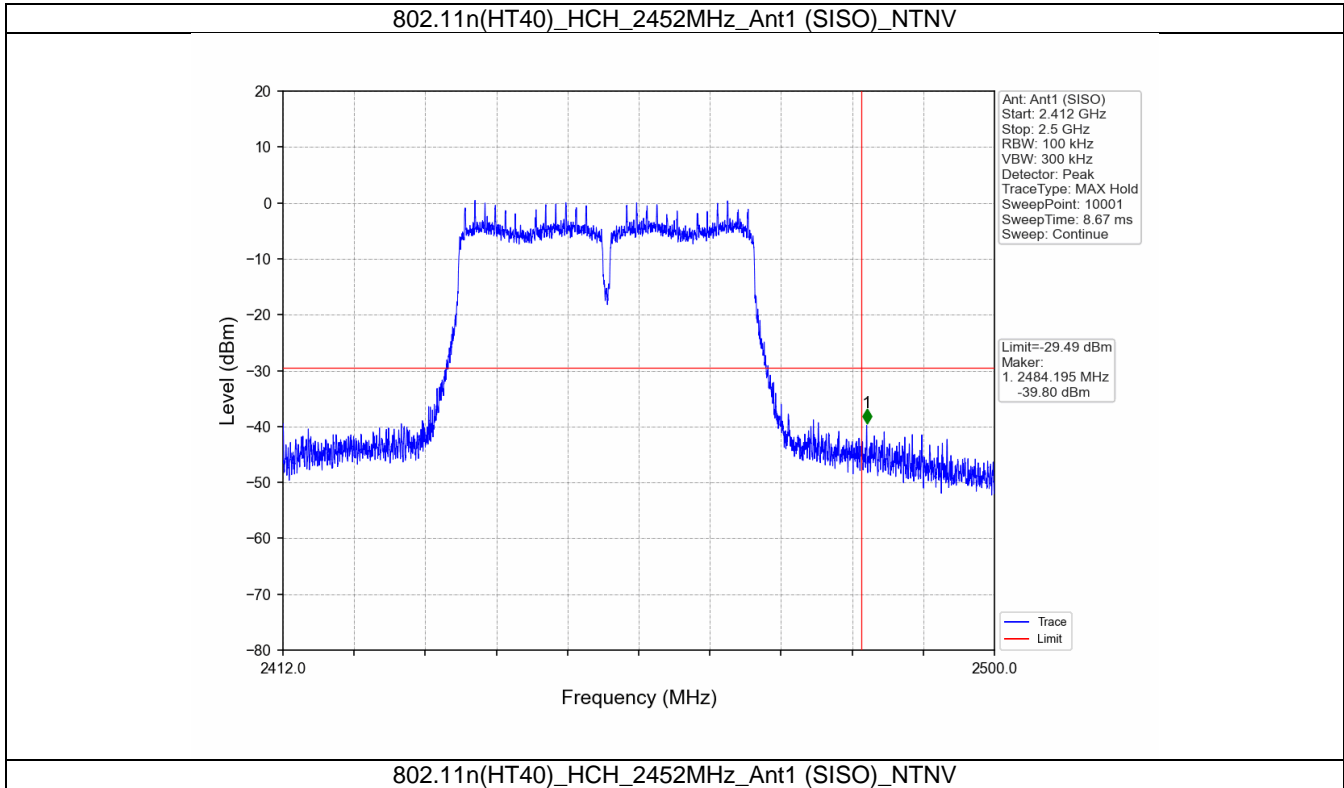
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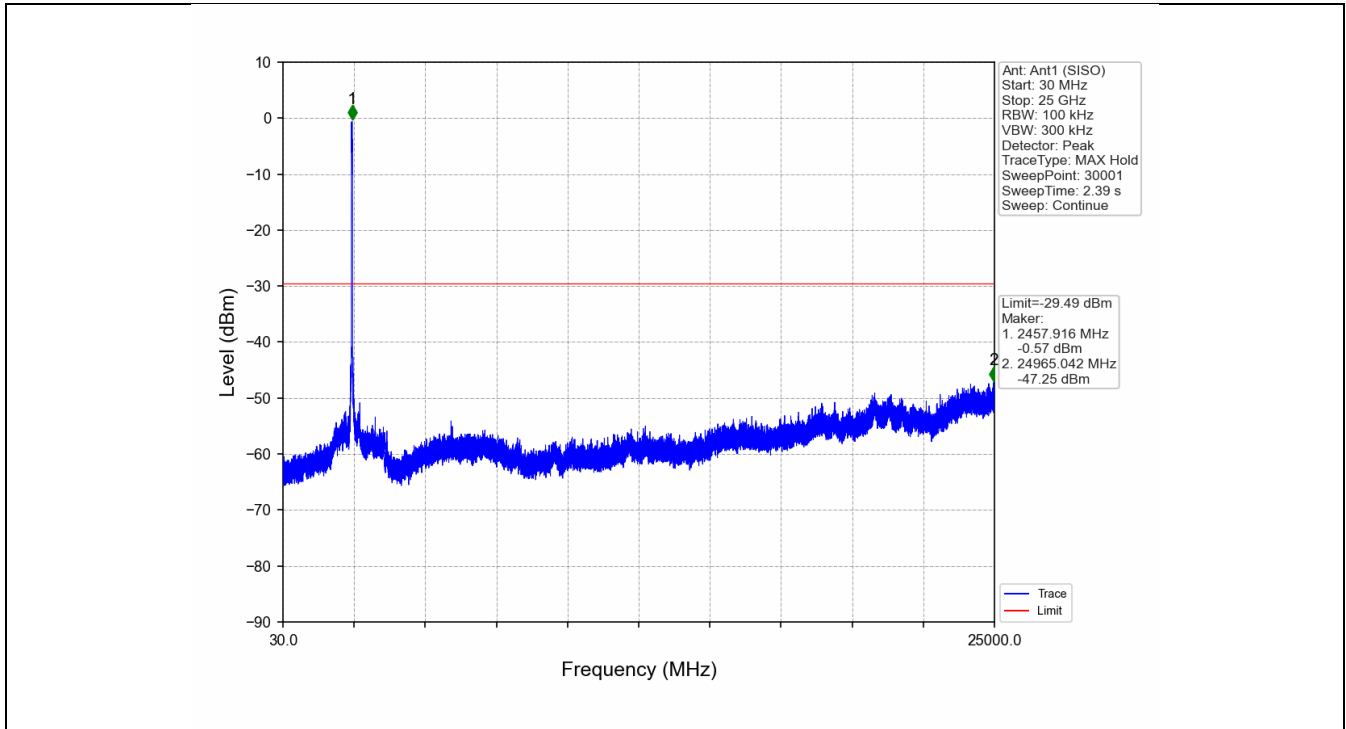


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