

Appendix A for SHEM210600653101

1. Duty Cycle

1.1 Ant1

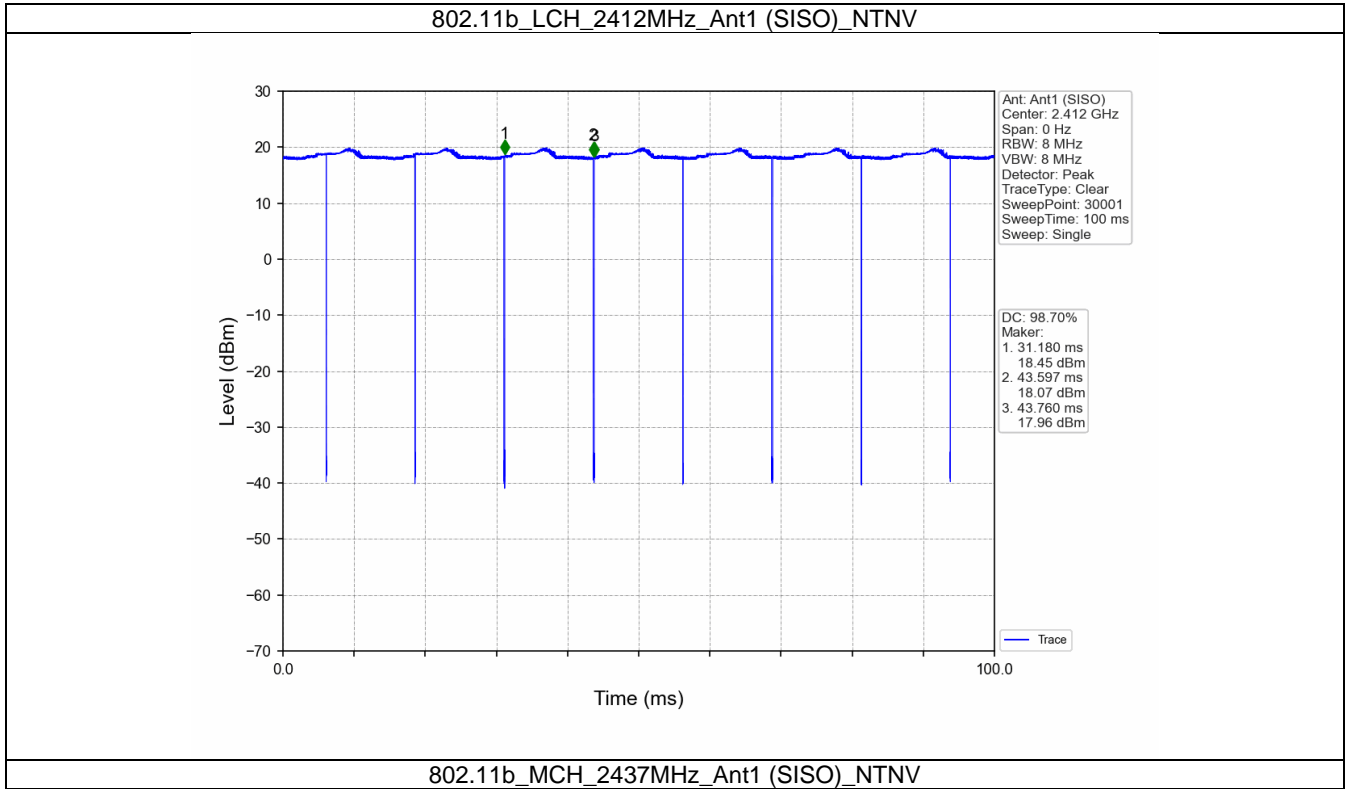
1.1.1 Test Result

Ant1								
ENV	Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11b	SISO	2412	12.42	12.58	98.70	0.06	0.87
			2437	12.41	12.58	98.65	0.06	0.24
			2462	12.42	12.59	98.62	0.06	0.58
	802.11g	SISO	2412	2.06	2.21	93.34	0.30	4.38
			2437	2.06	2.23	92.63	0.33	5.57
			2462	2.06	2.24	92.26	0.35	5.94
	802.11n (HT20)	SISO	2412	1.92	2.09	91.72	0.38	5.88
			2437	1.92	2.09	91.72	0.38	5.85
			2462	1.92	2.09	91.77	0.37	6.33
	802.11n (HT40)	SISO	2422	0.94	1.08	87.30	0.59	7.09
			2437	0.94	1.12	84.39	0.74	10.78
			2452	0.94	1.08	87.30	0.59	7.09



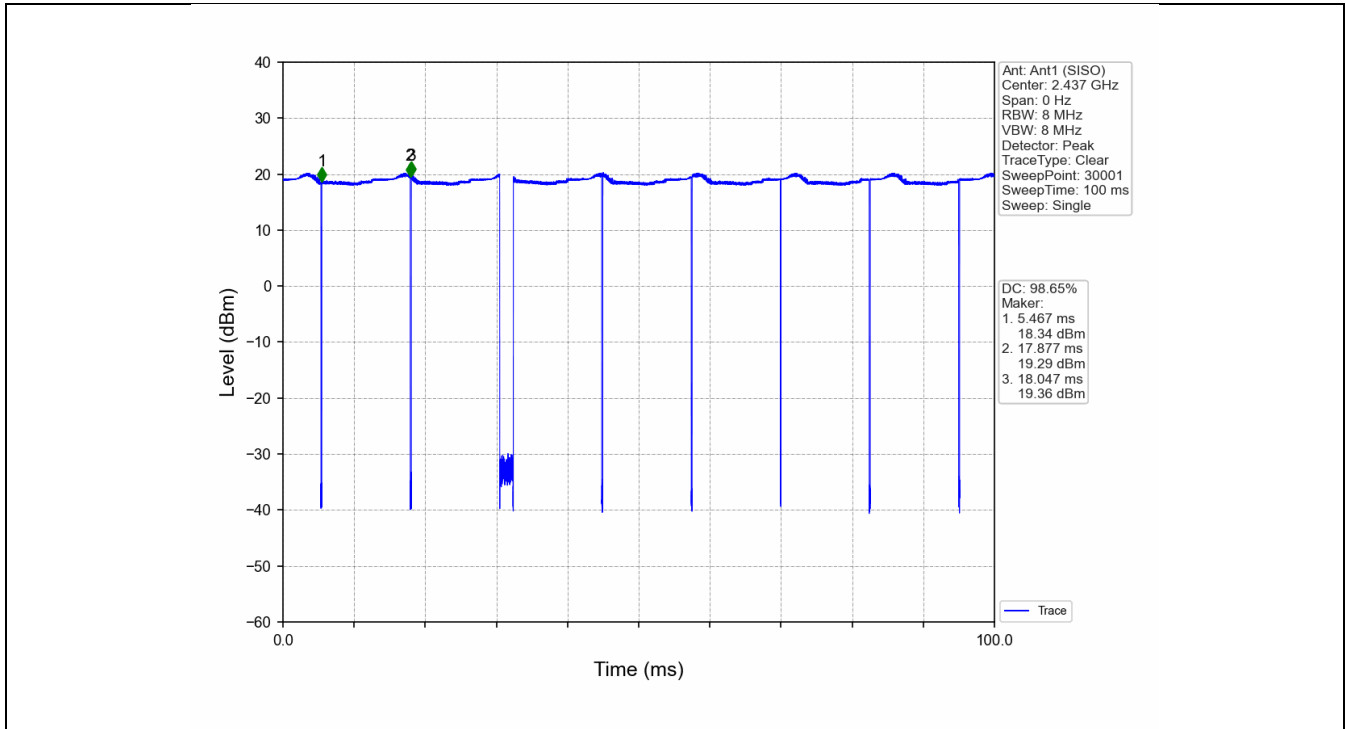
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1.1.2 Test Graph



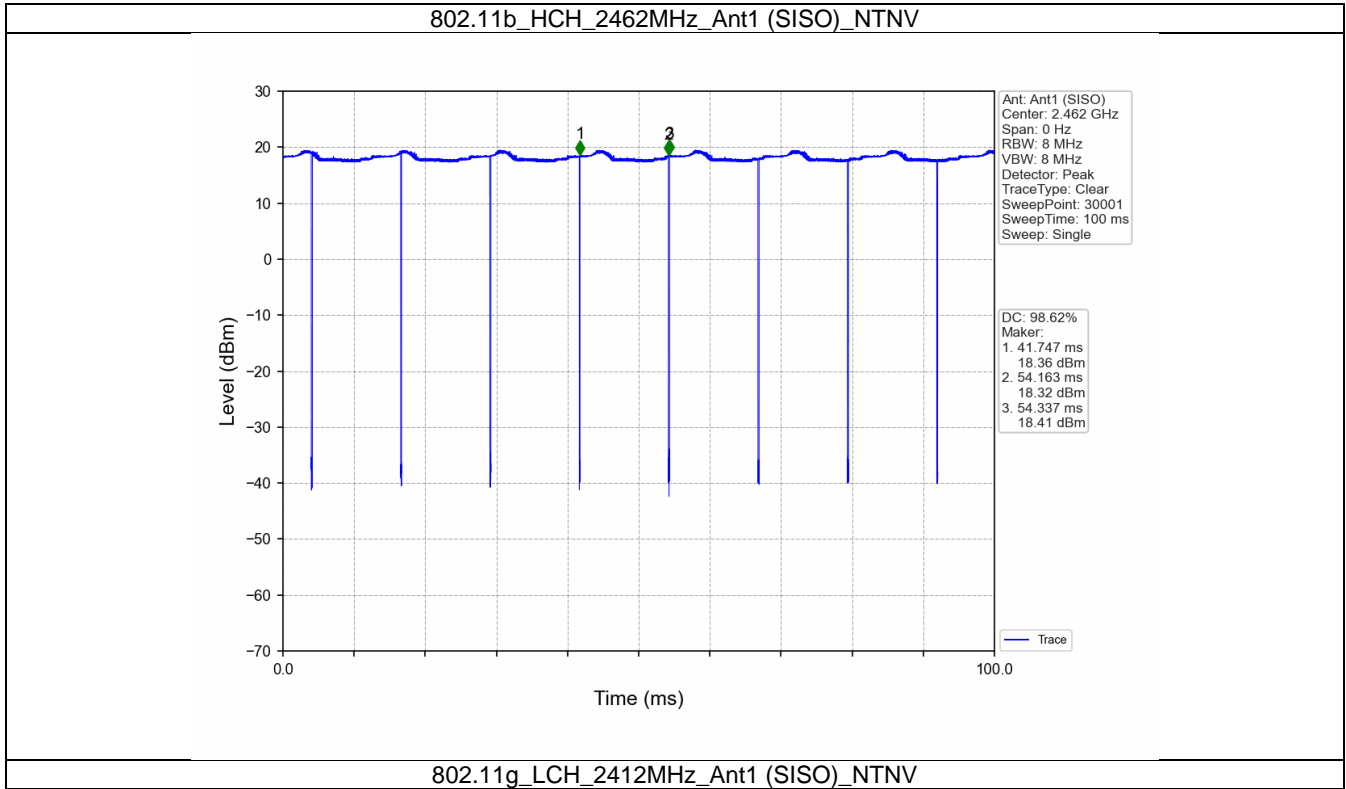
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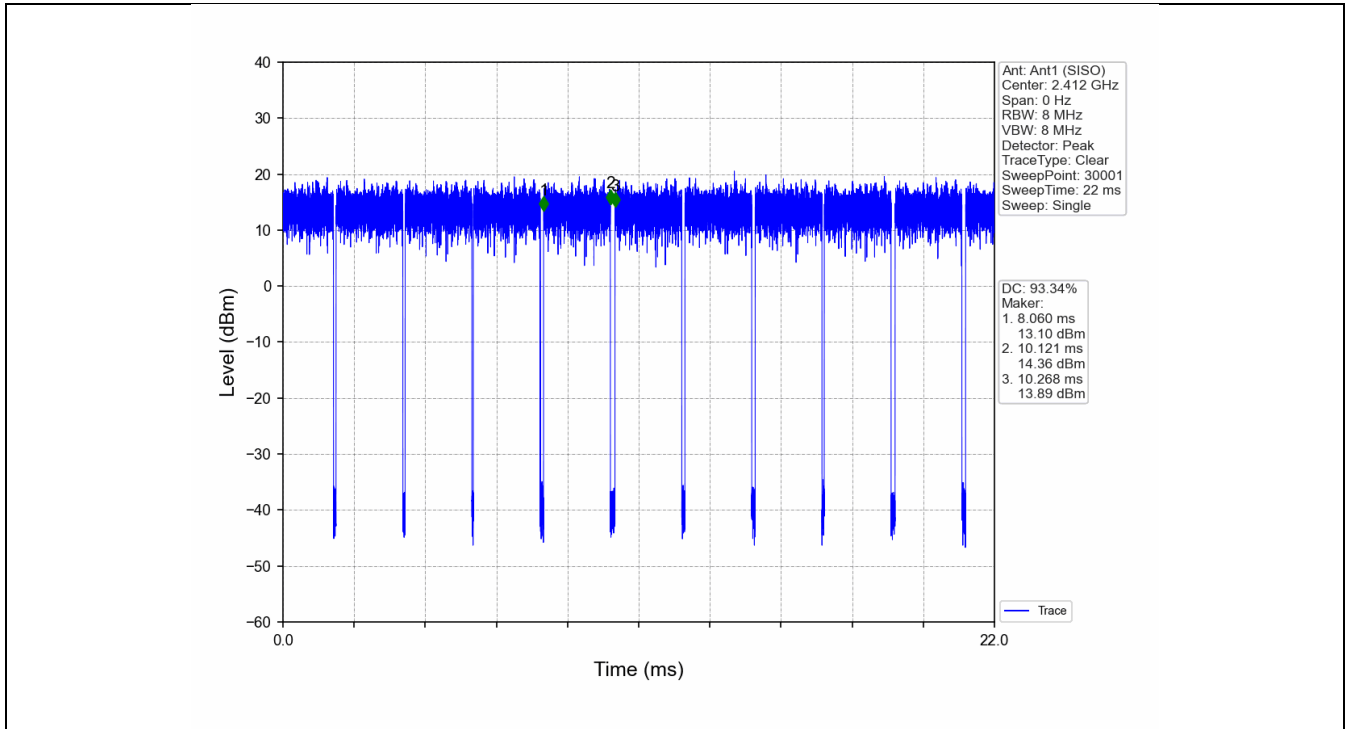
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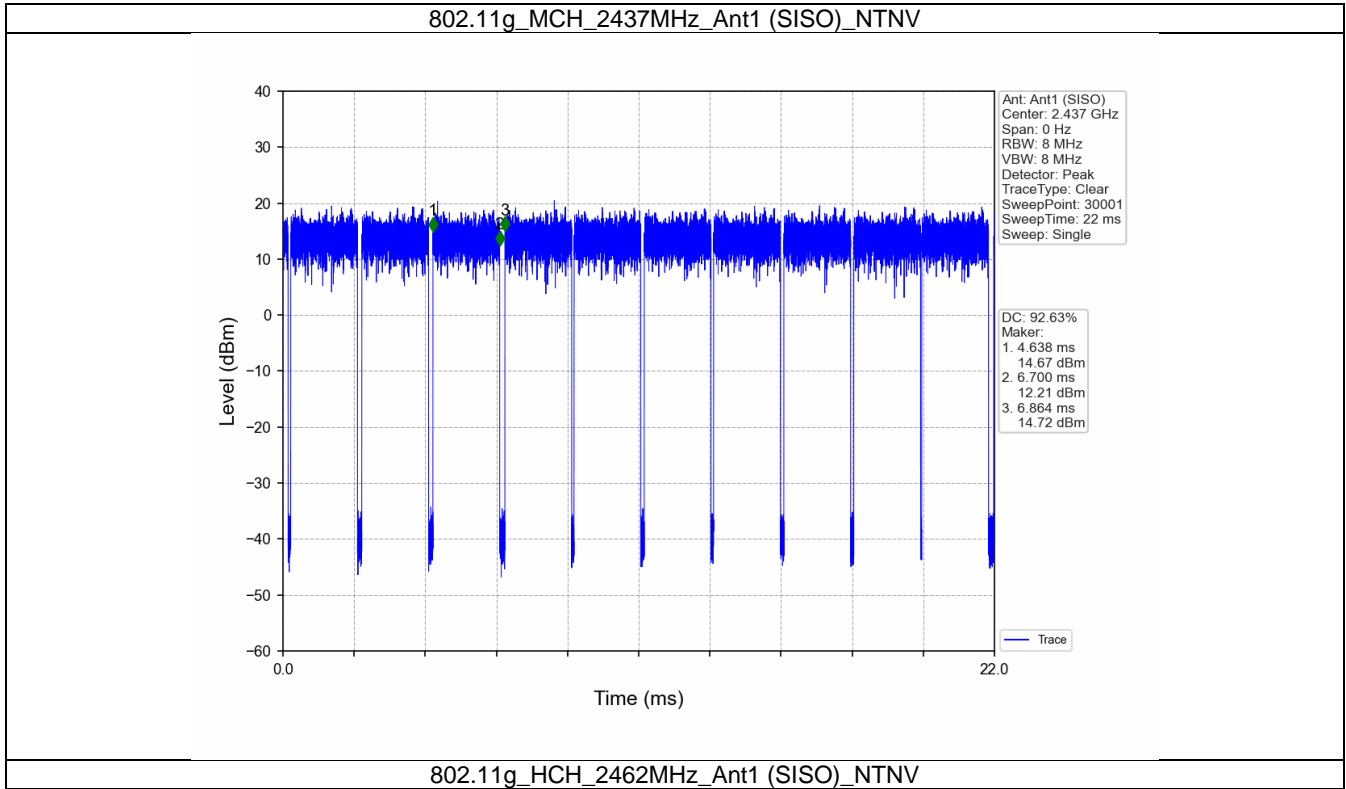
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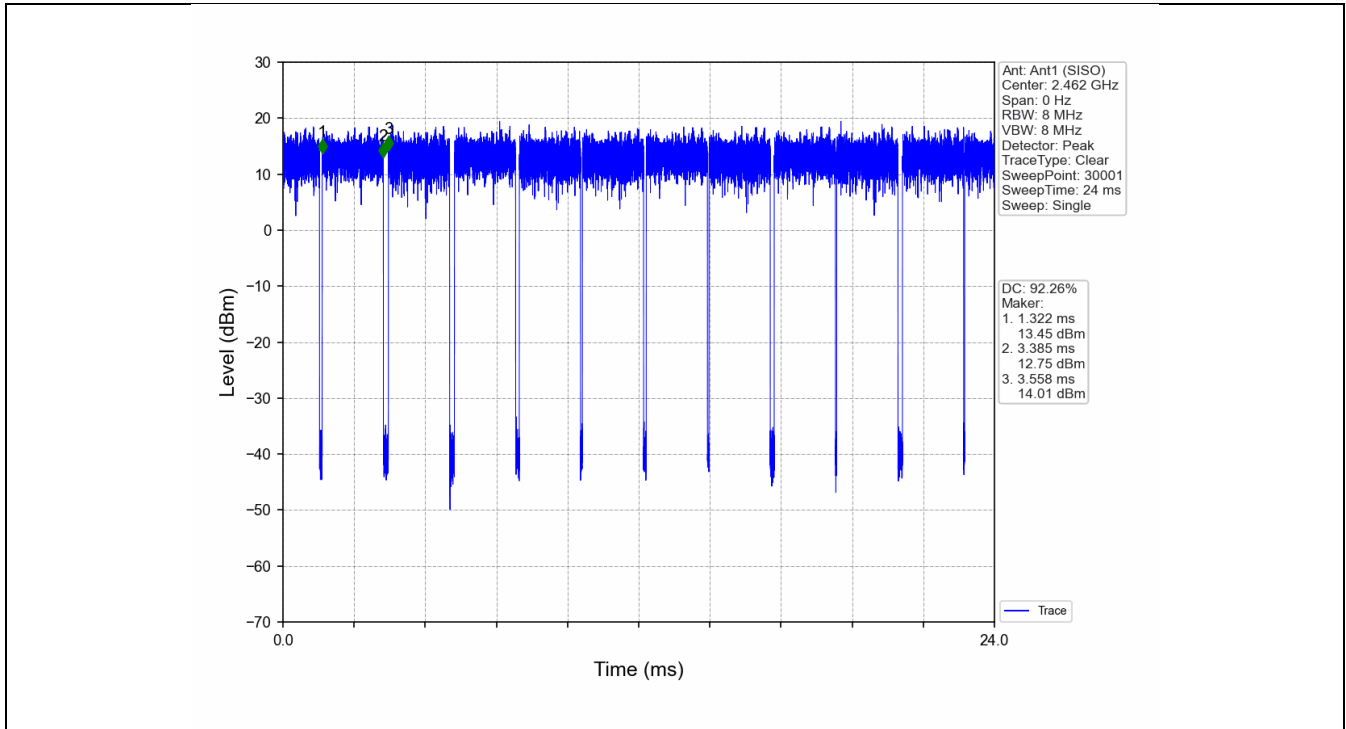
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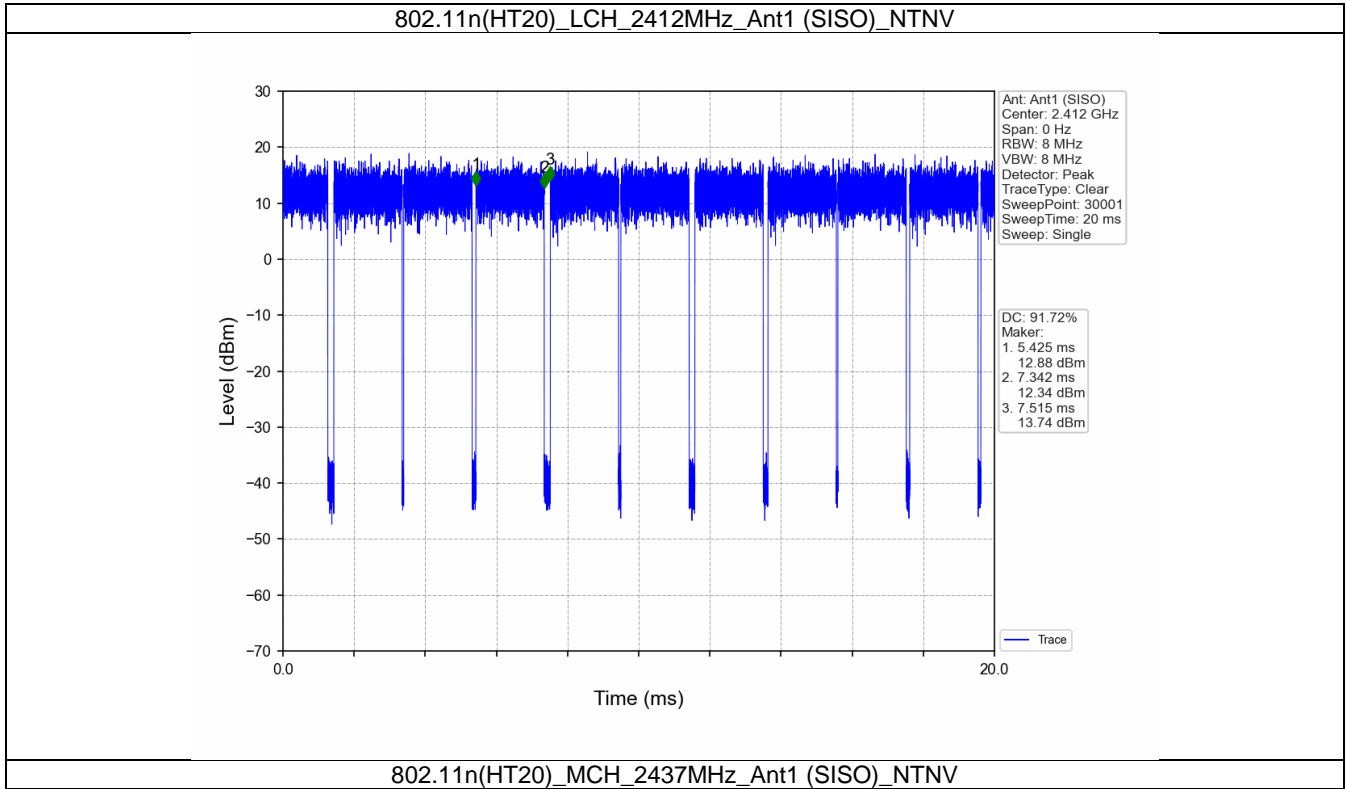
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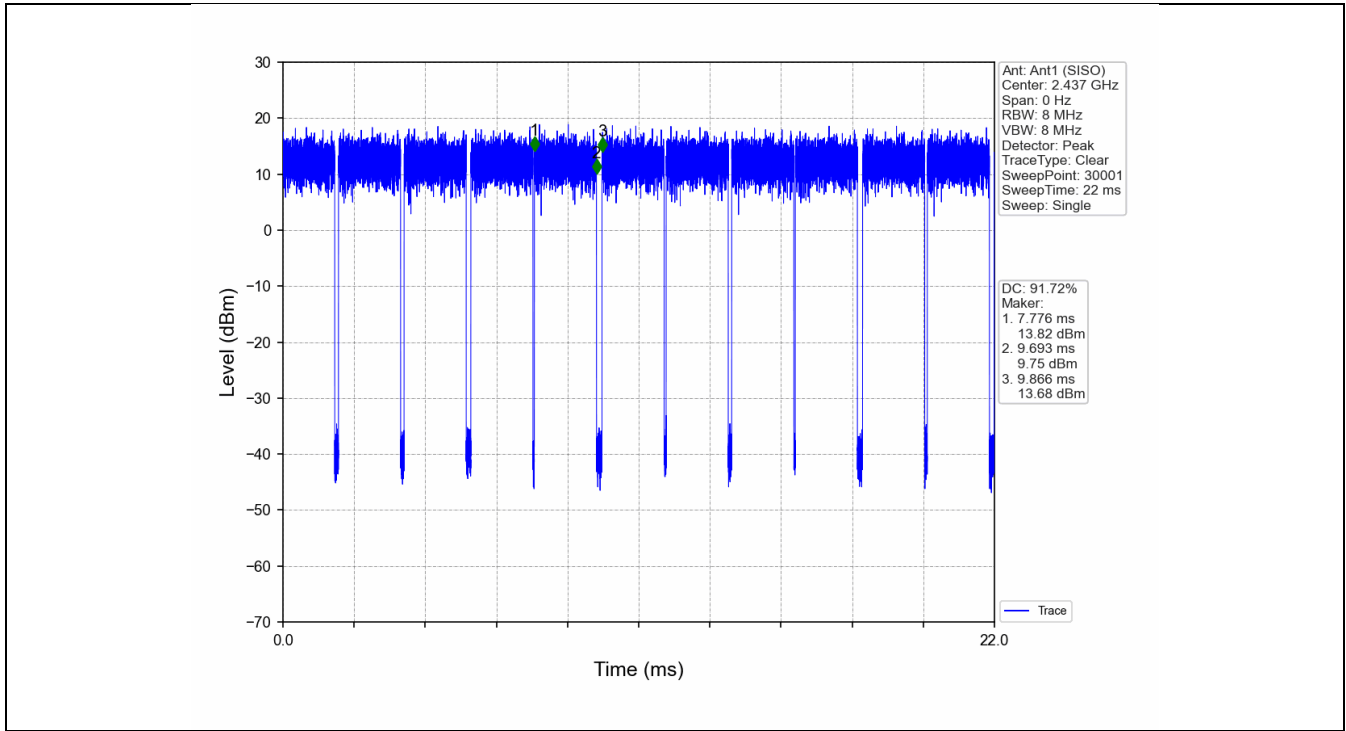
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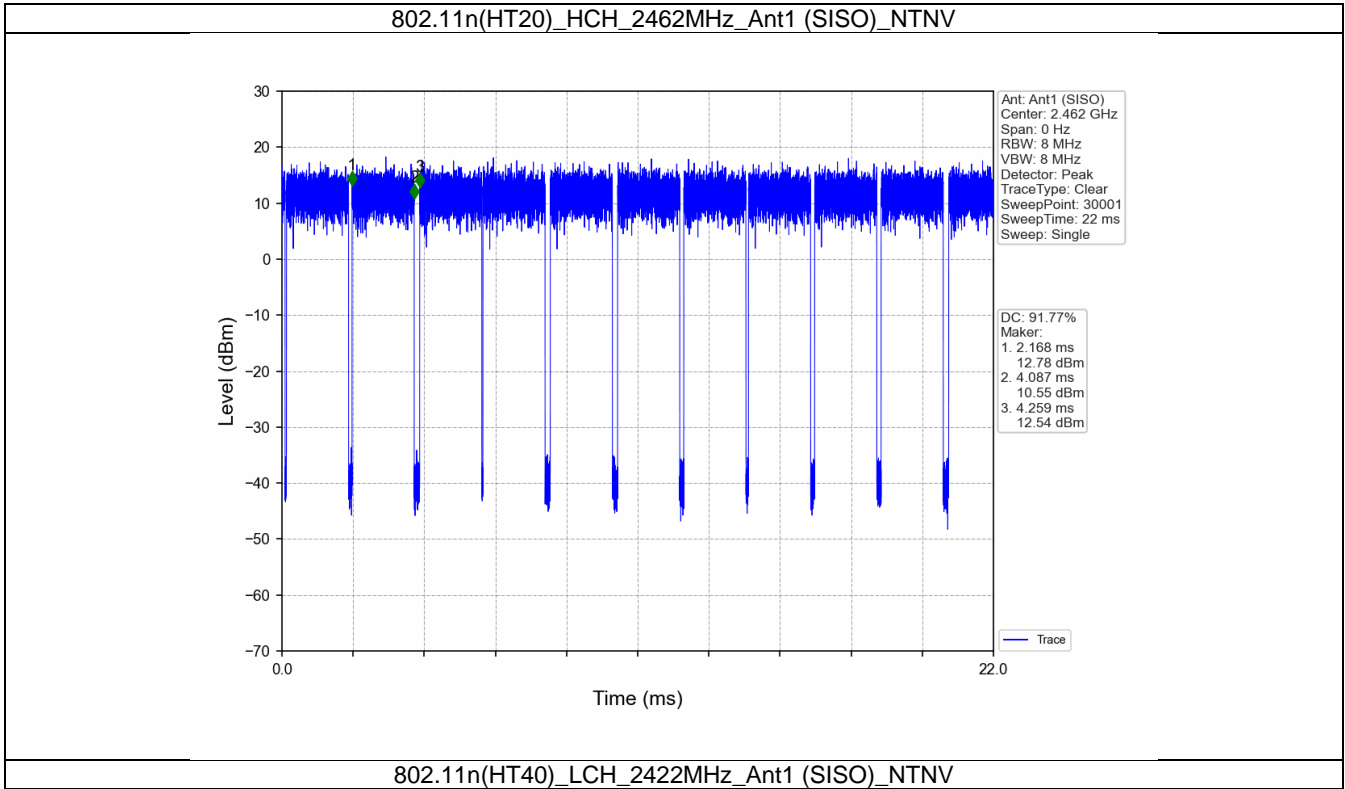
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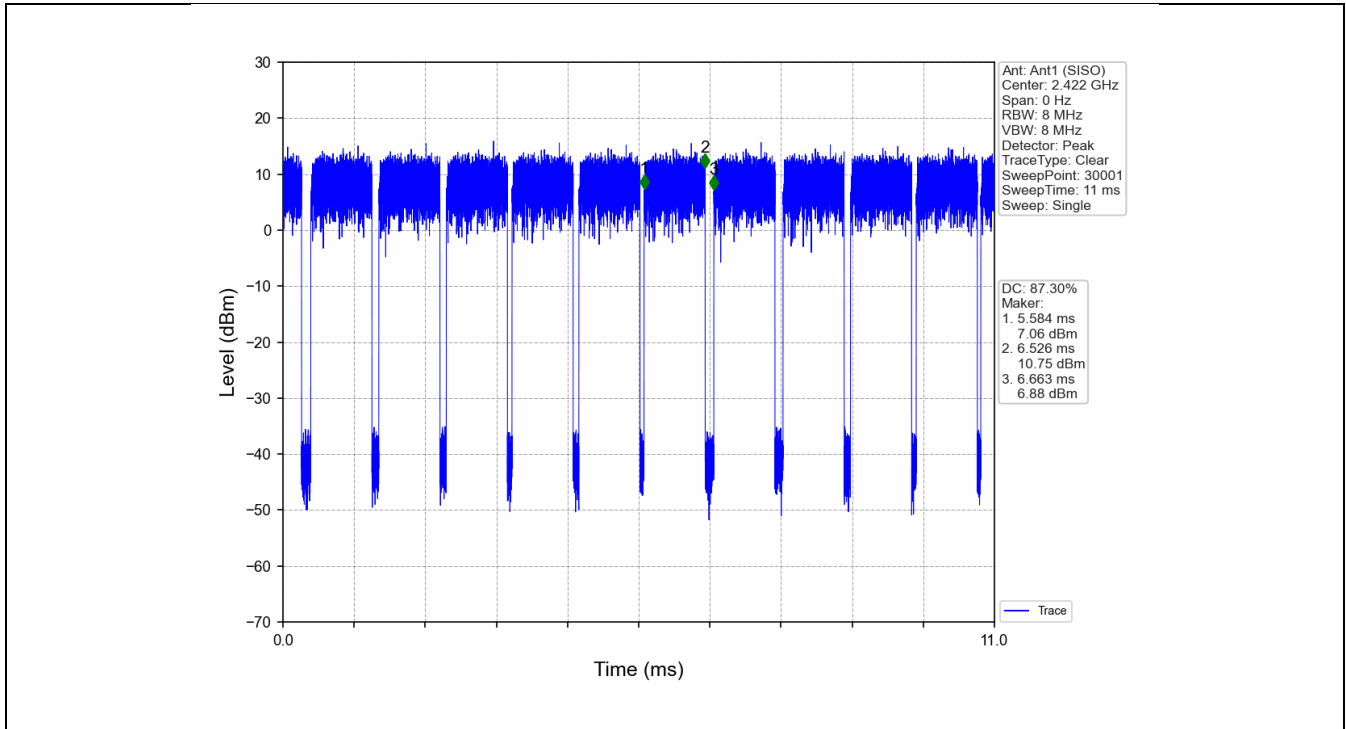
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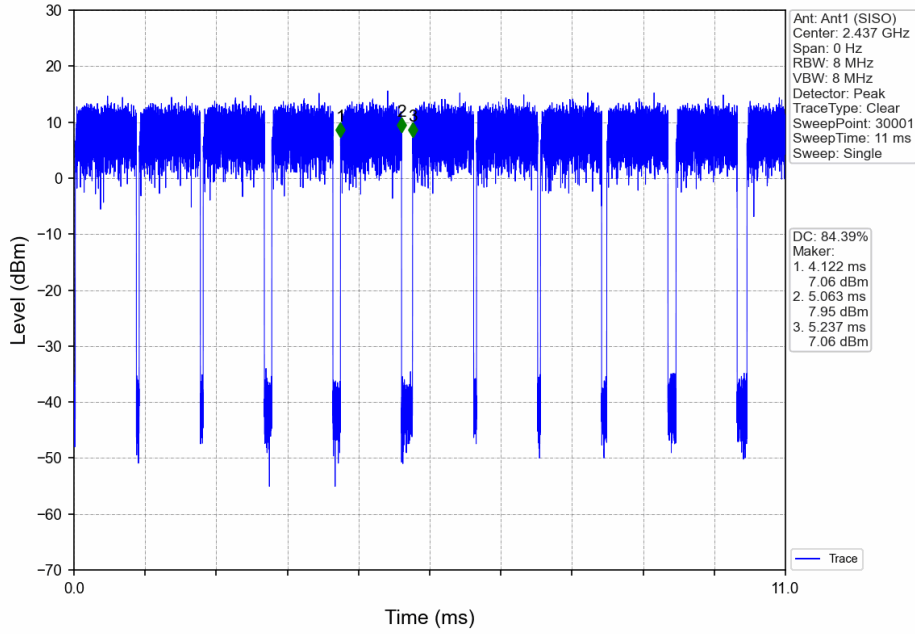
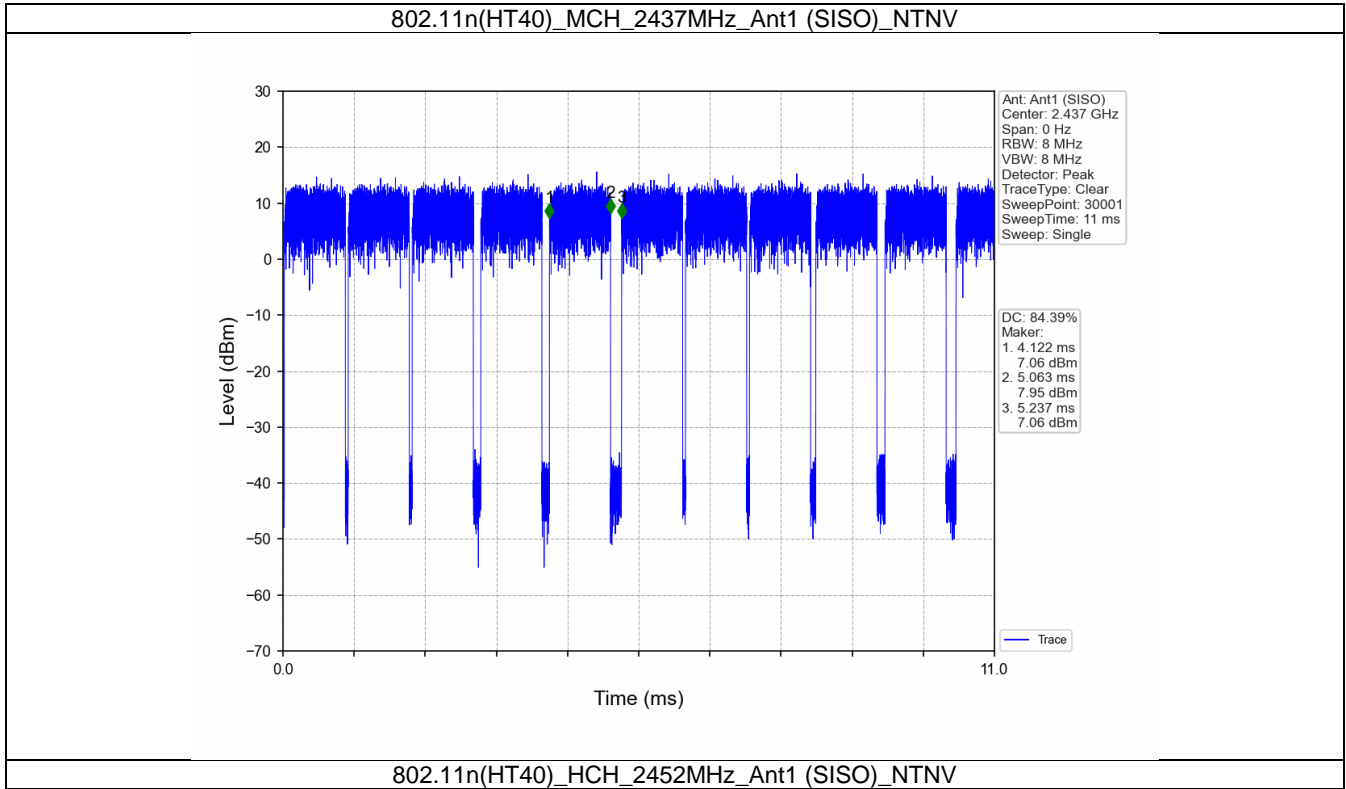


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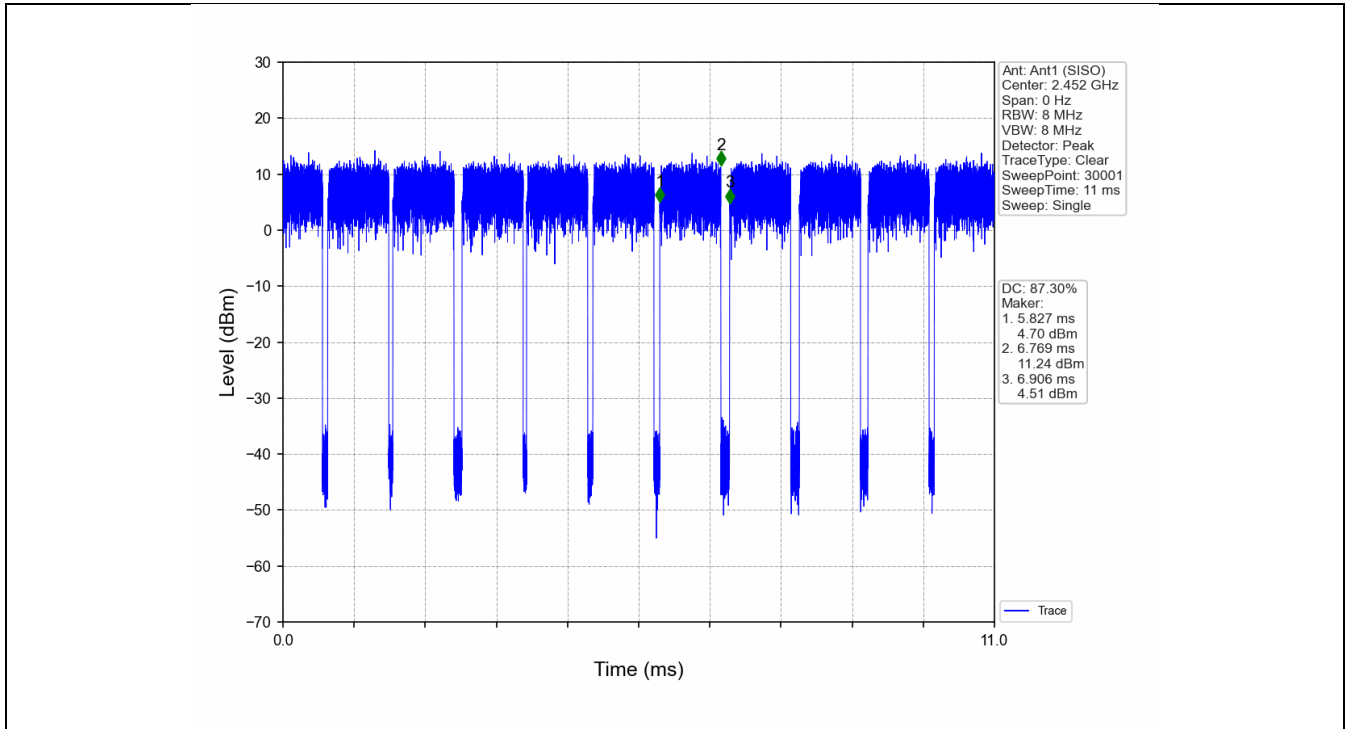
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

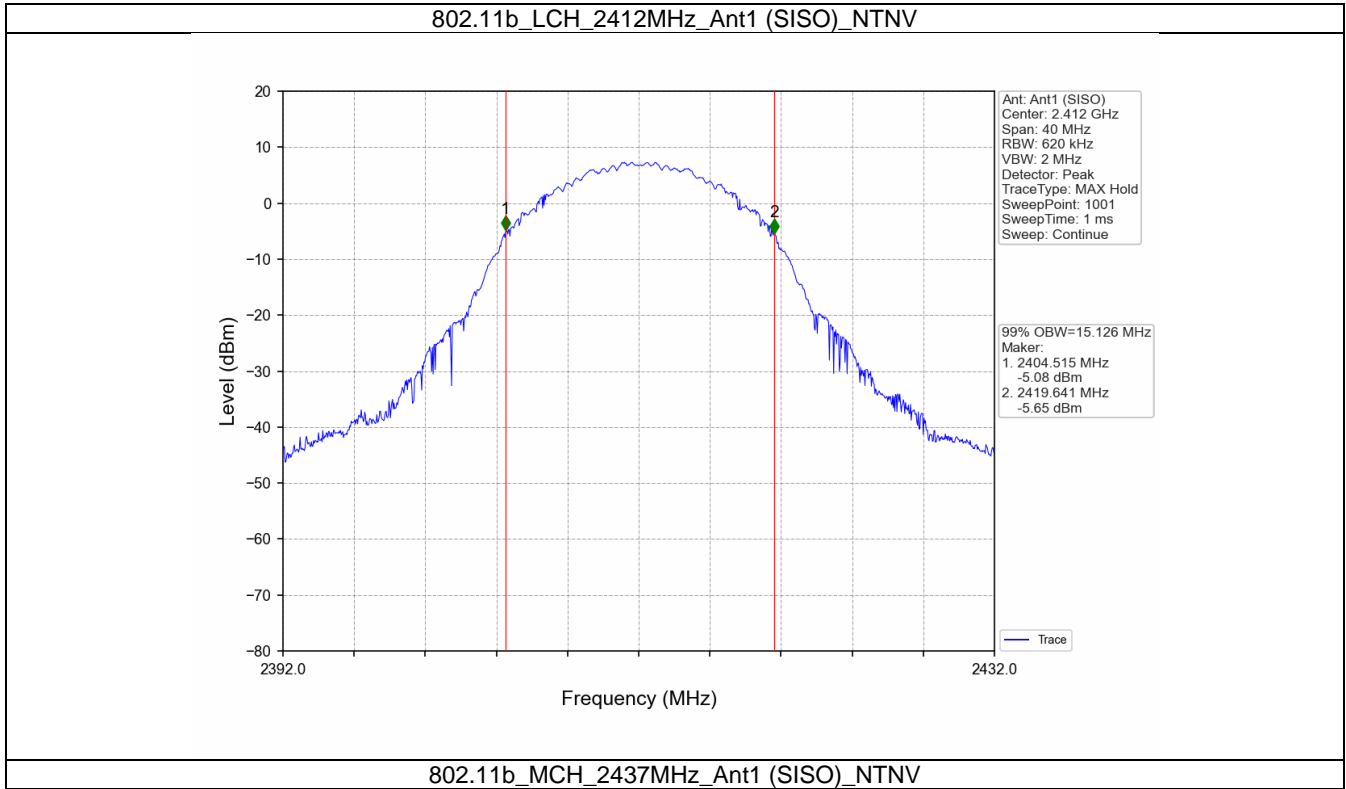
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			2437	1	15.13	/	Pass
			2462	1	15.08	/	Pass
	802.11g	SISO	2412	1	17.95	/	Pass
			2437	1	17.91	/	Pass
			2462	1	17.89	/	Pass
	802.11n (HT20)	SISO	2412	1	18.50	/	Pass
			2437	1	18.50	/	Pass
			2462	1	18.49	/	Pass
	802.11n (HT40)	SISO	2422	1	36.27	/	Pass
			2437	1	36.23	/	Pass
			2452	1	36.28	/	Pass



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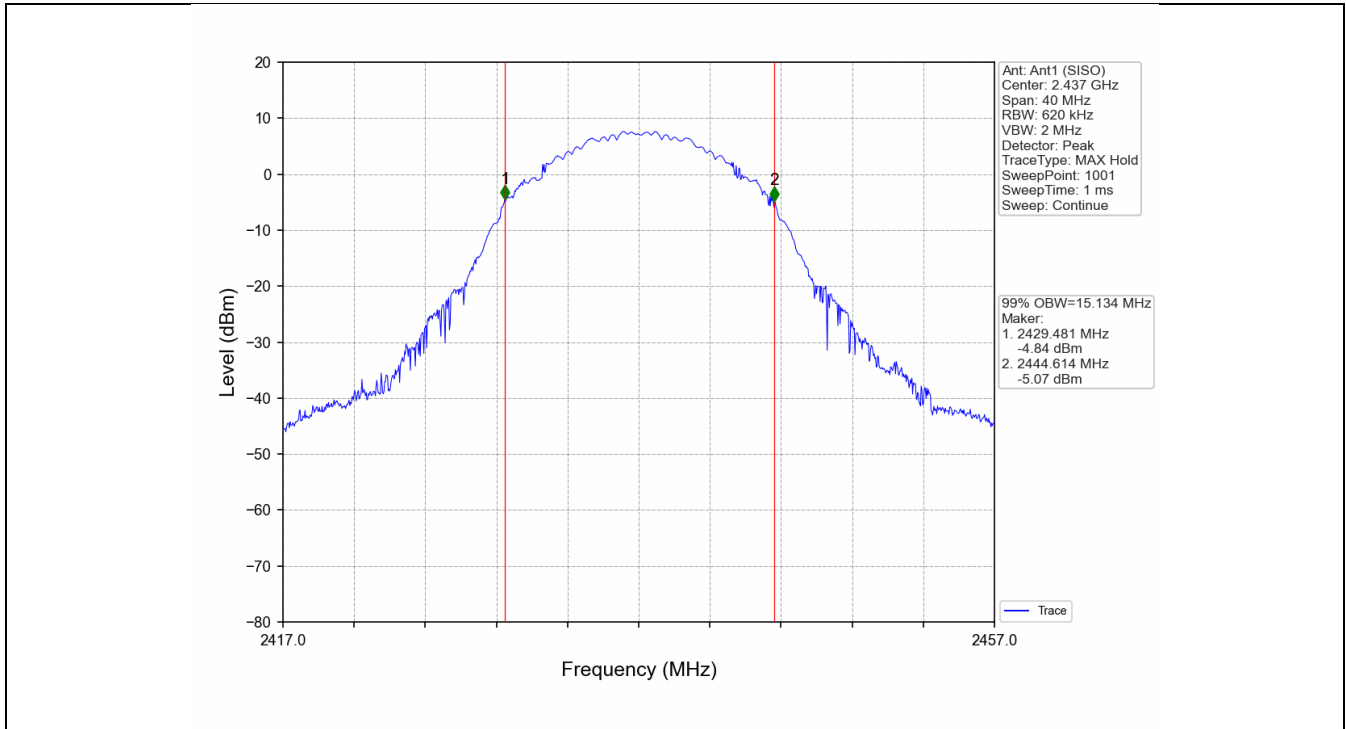
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2.1.2 Test Graph



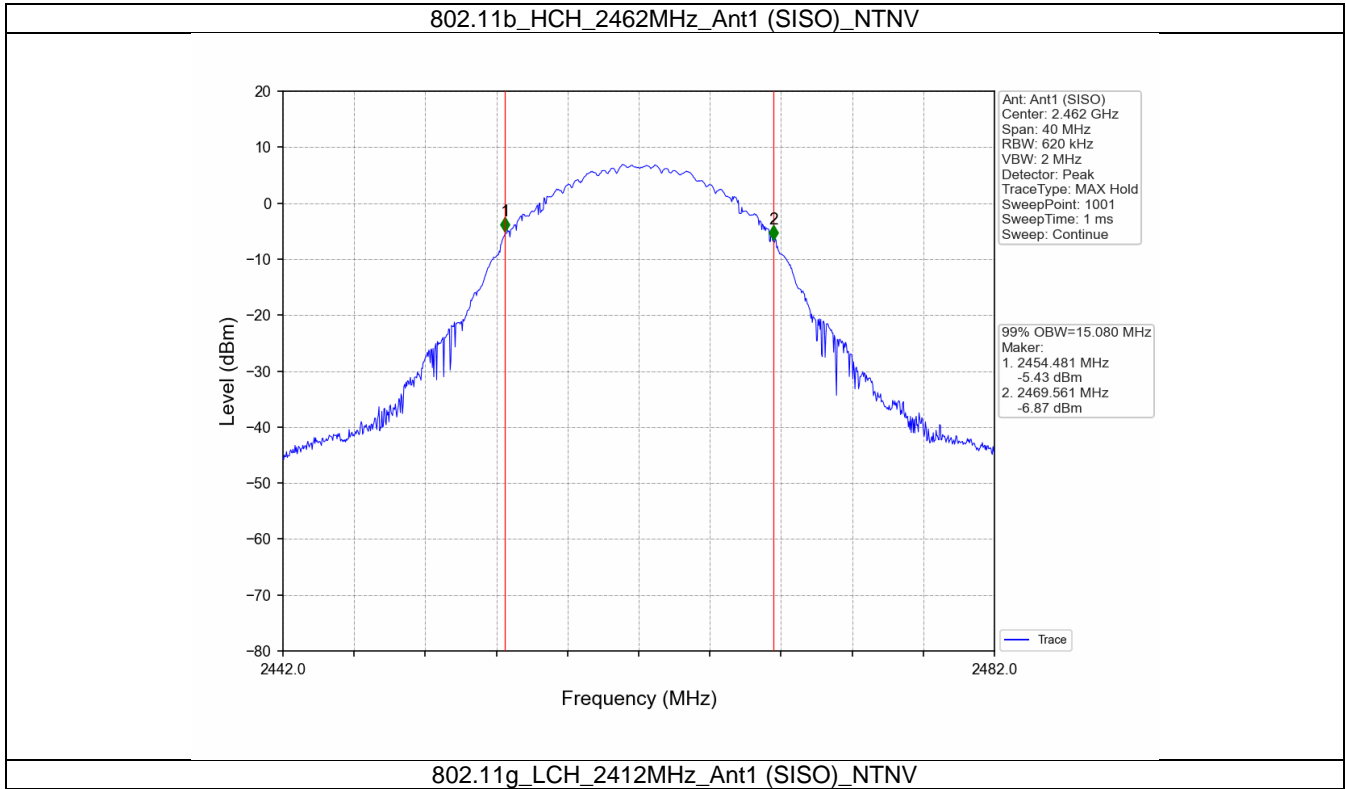
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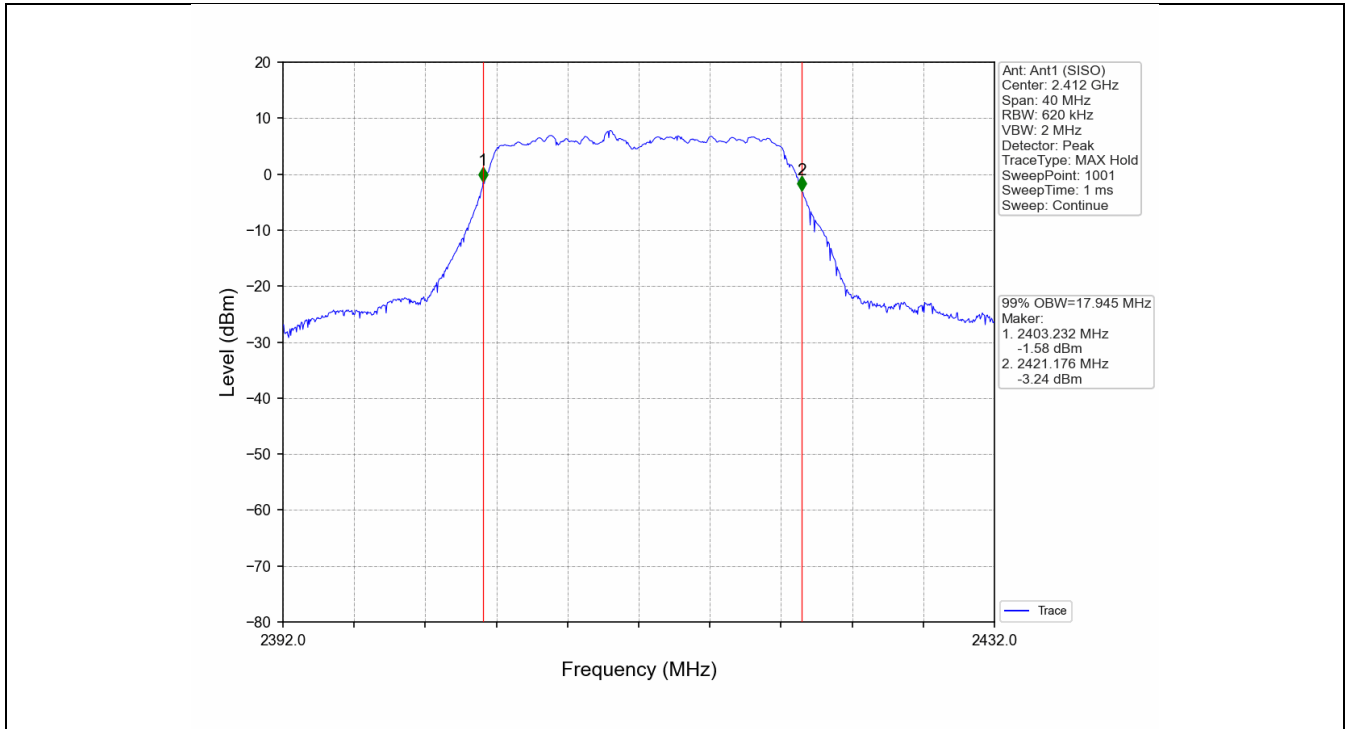
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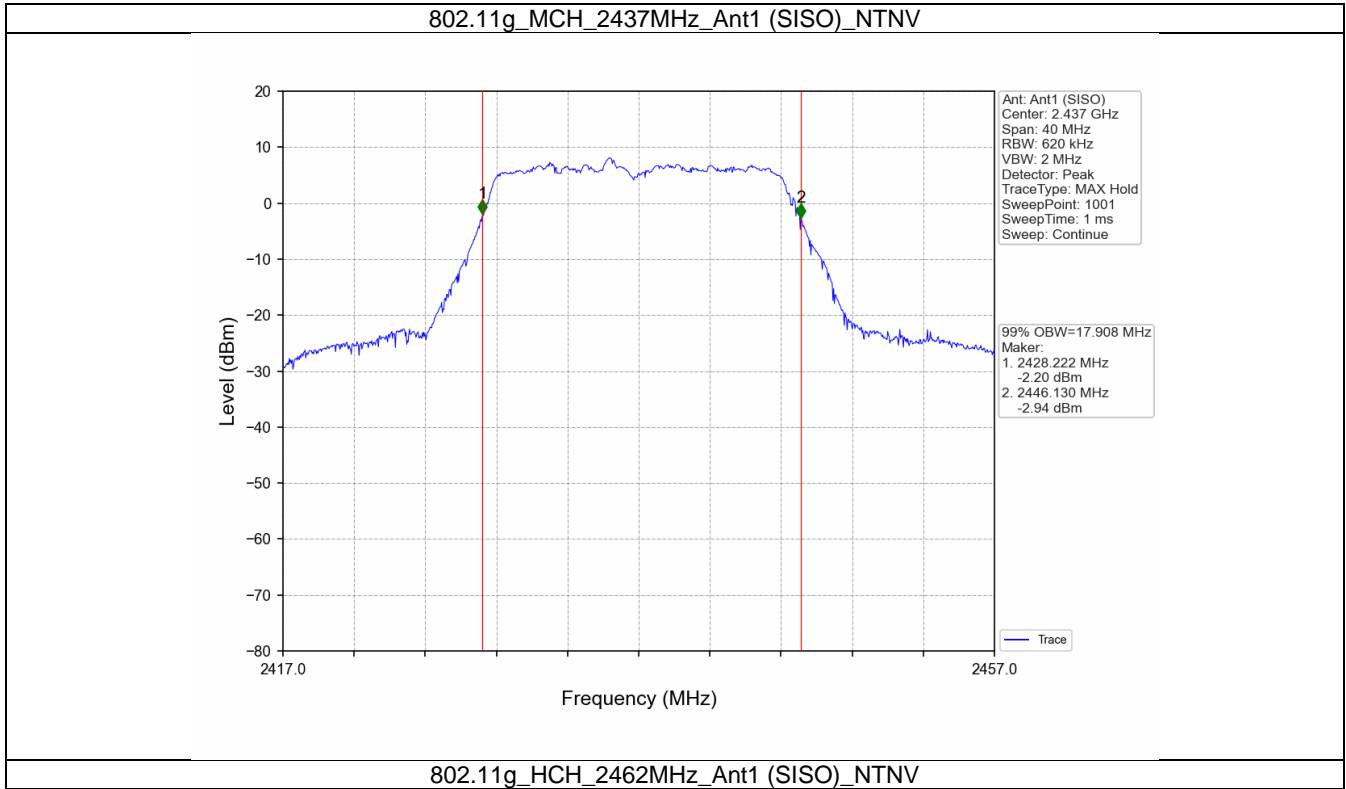
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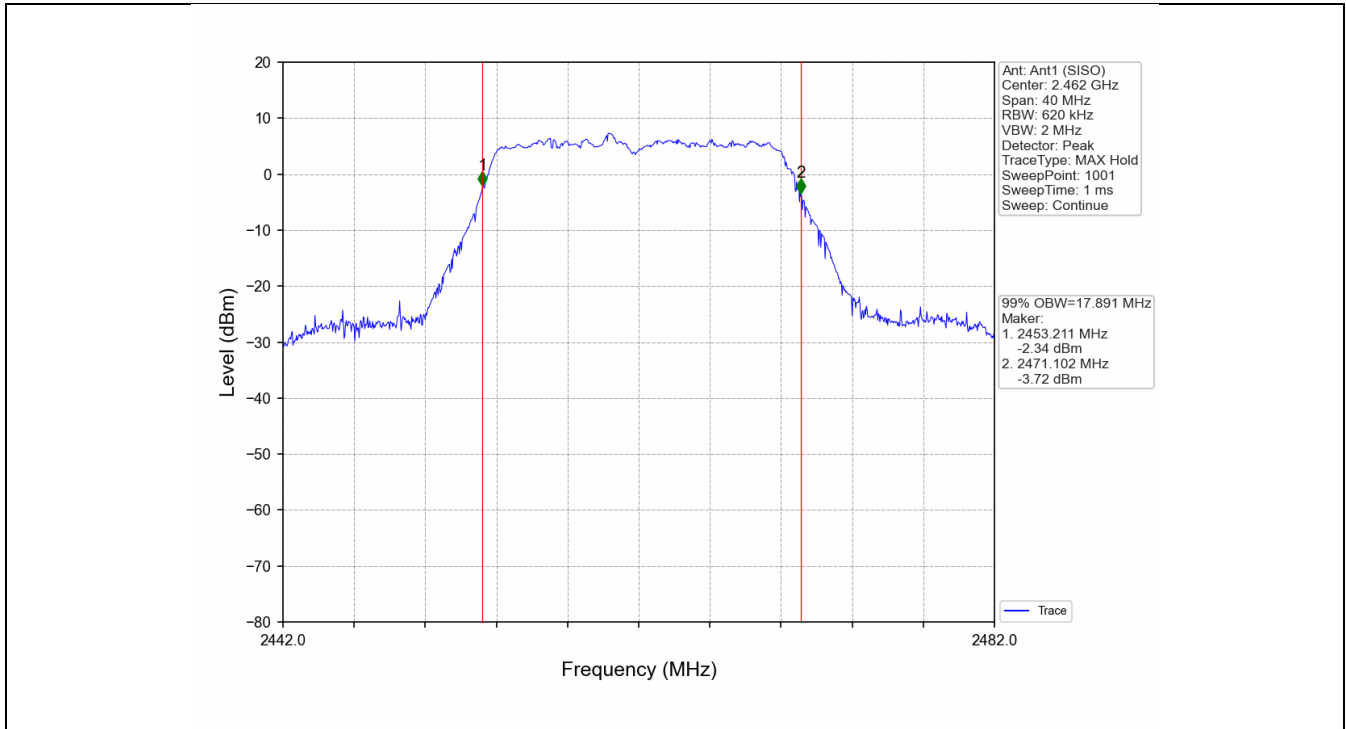
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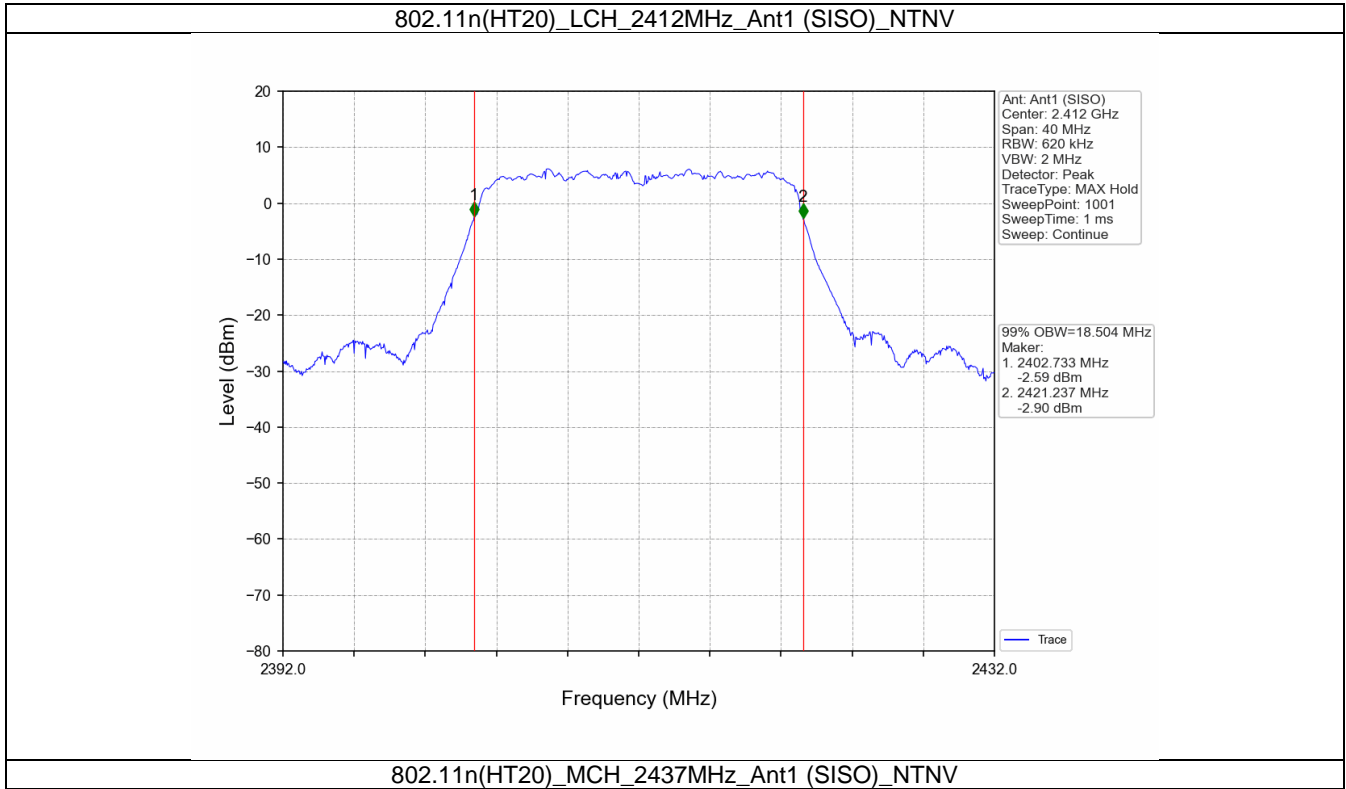
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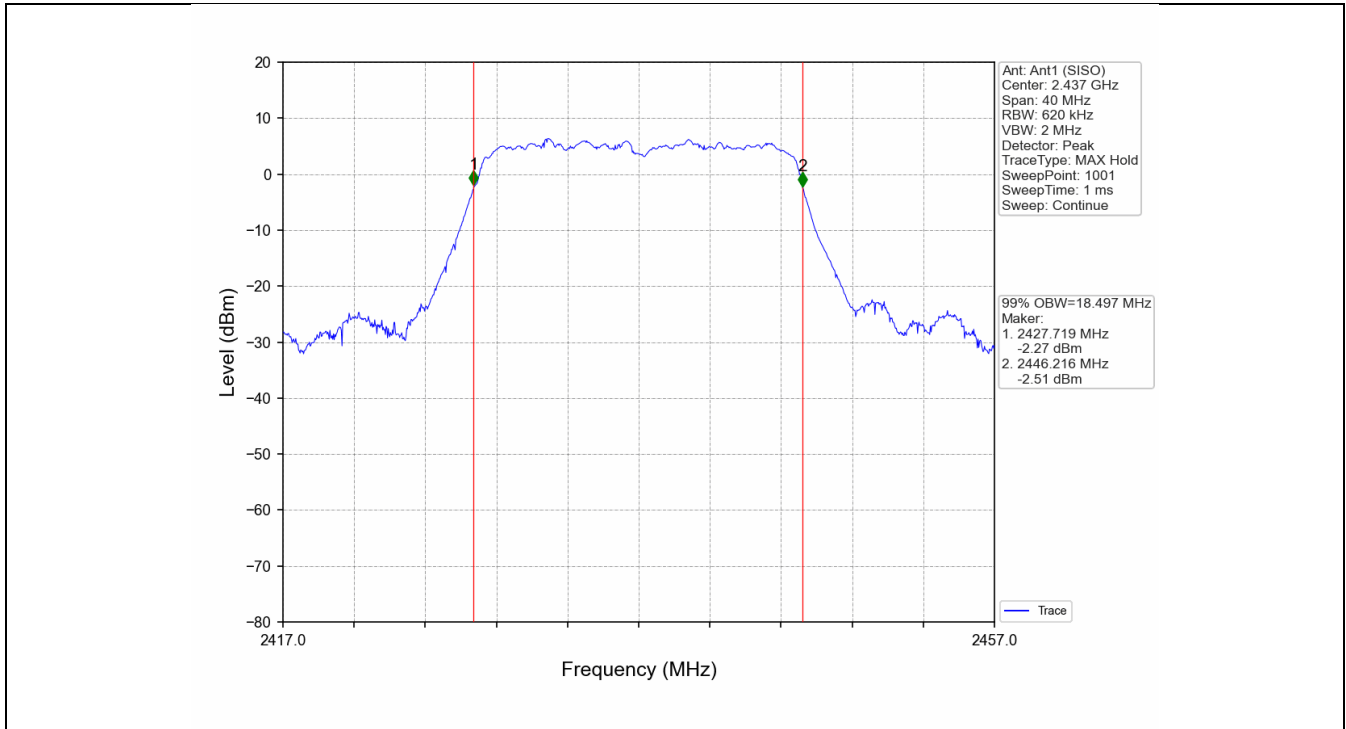


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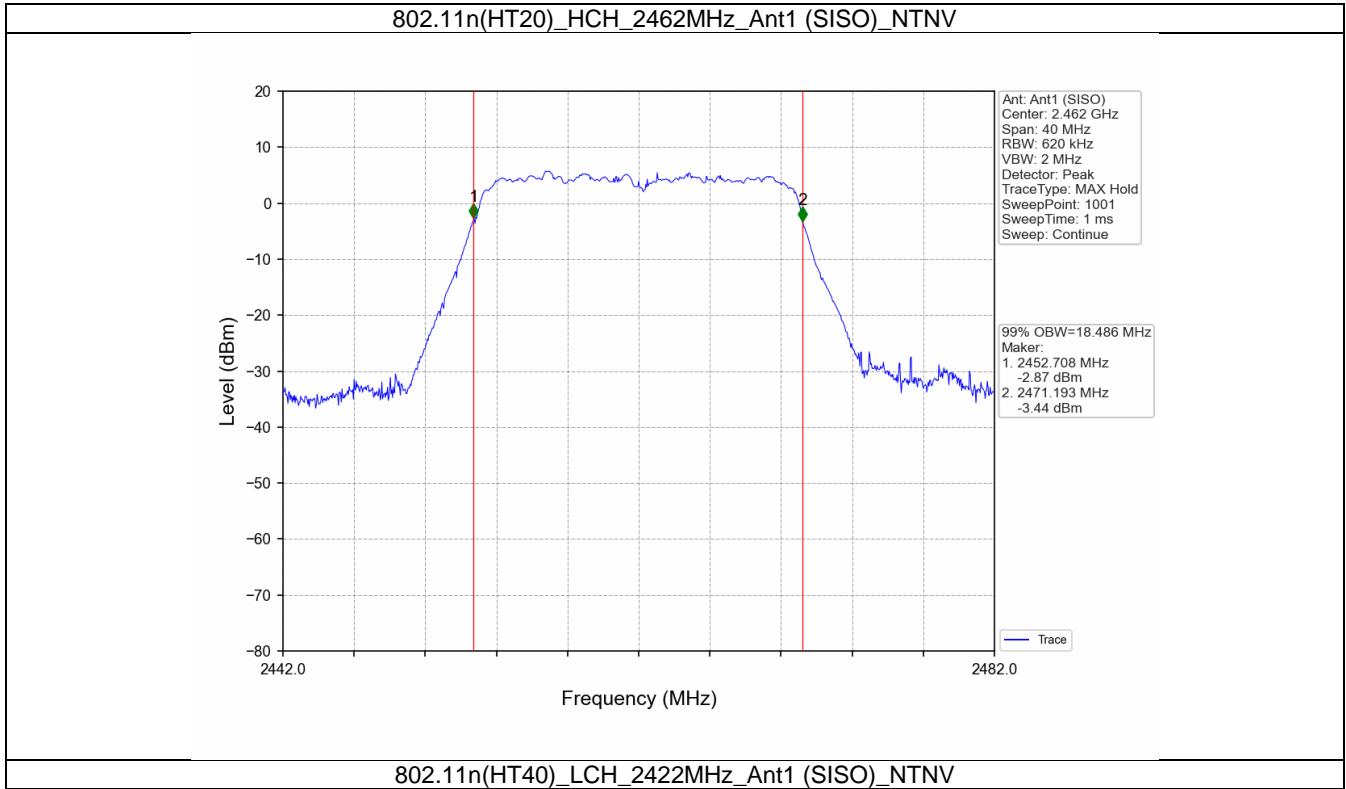


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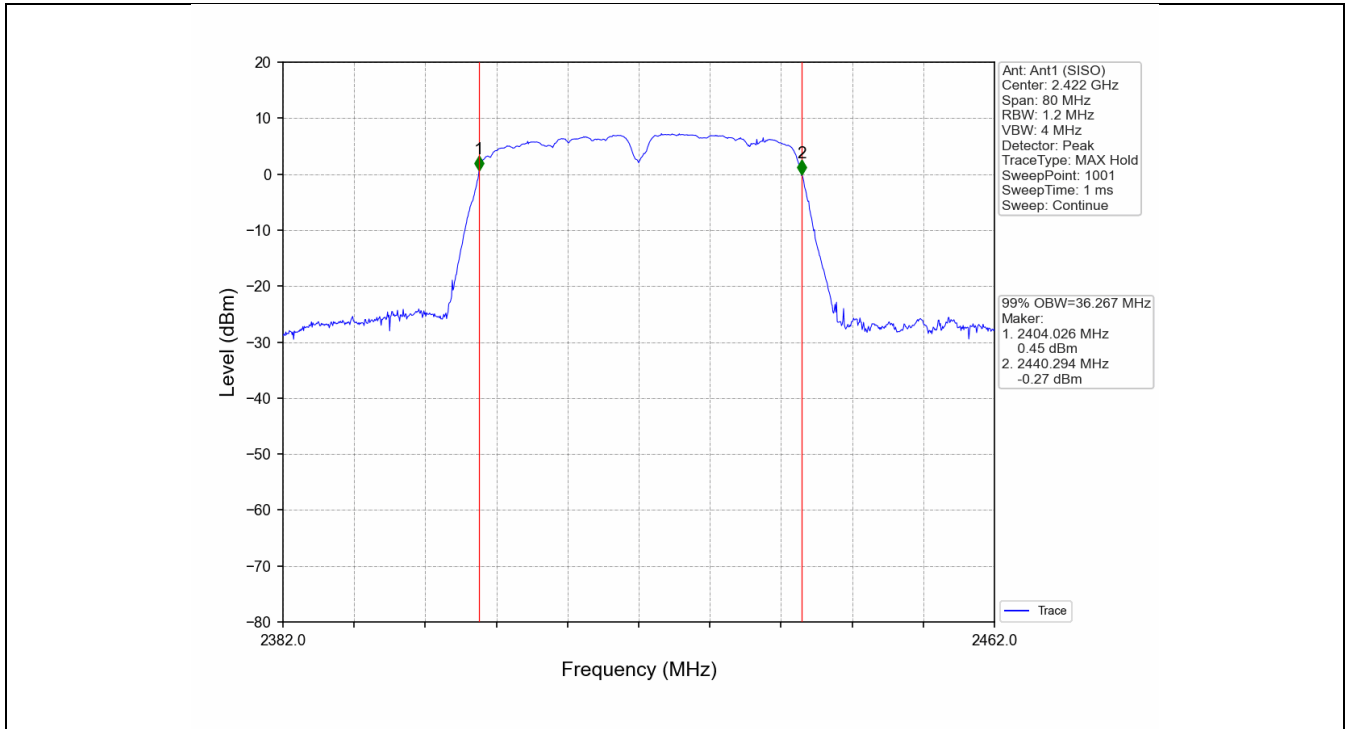
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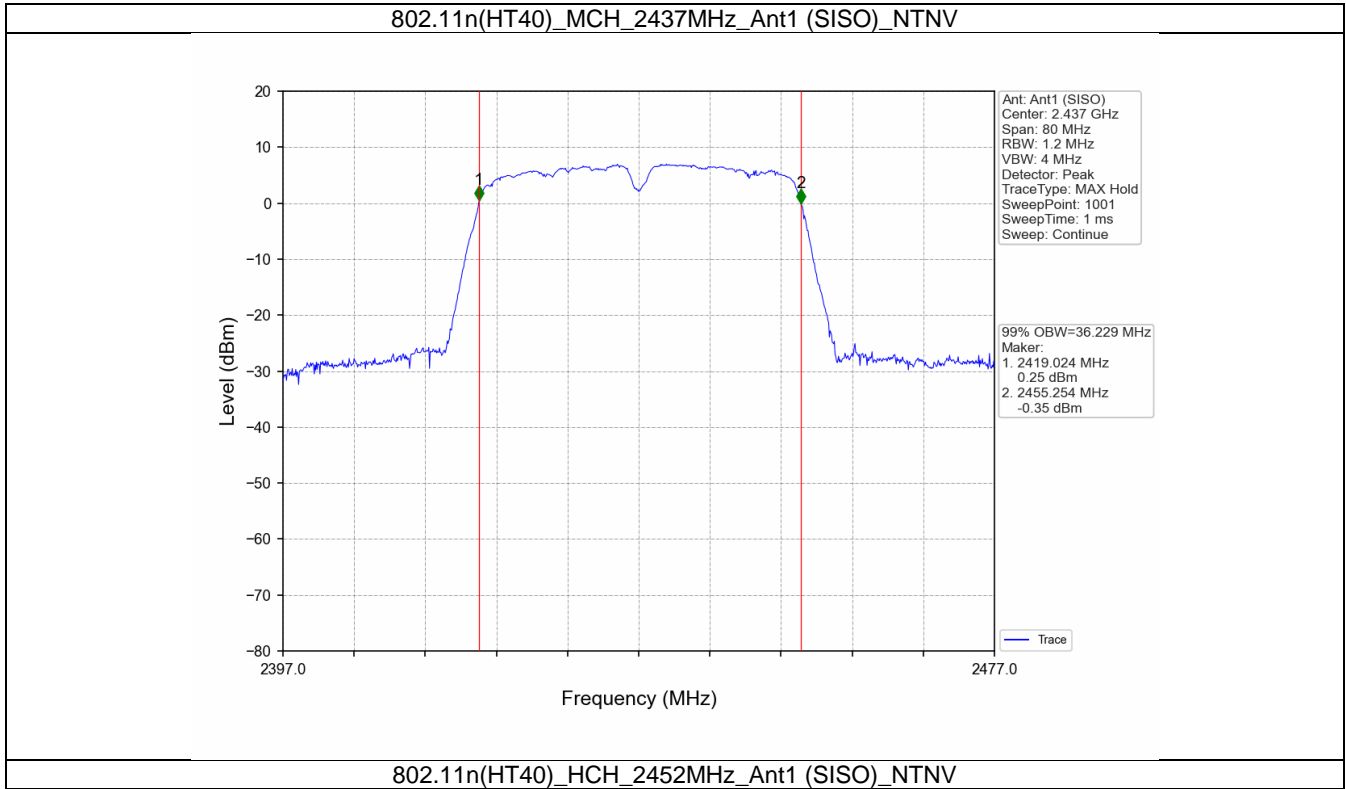
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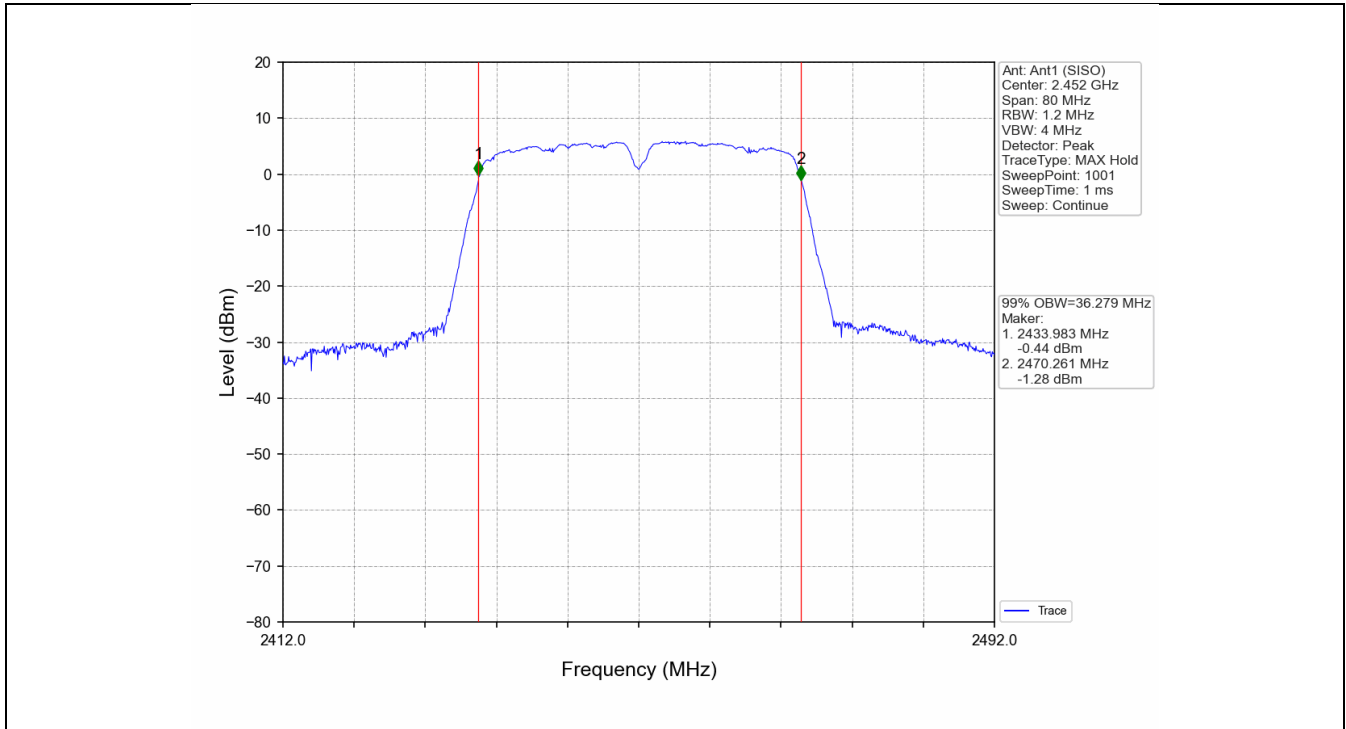


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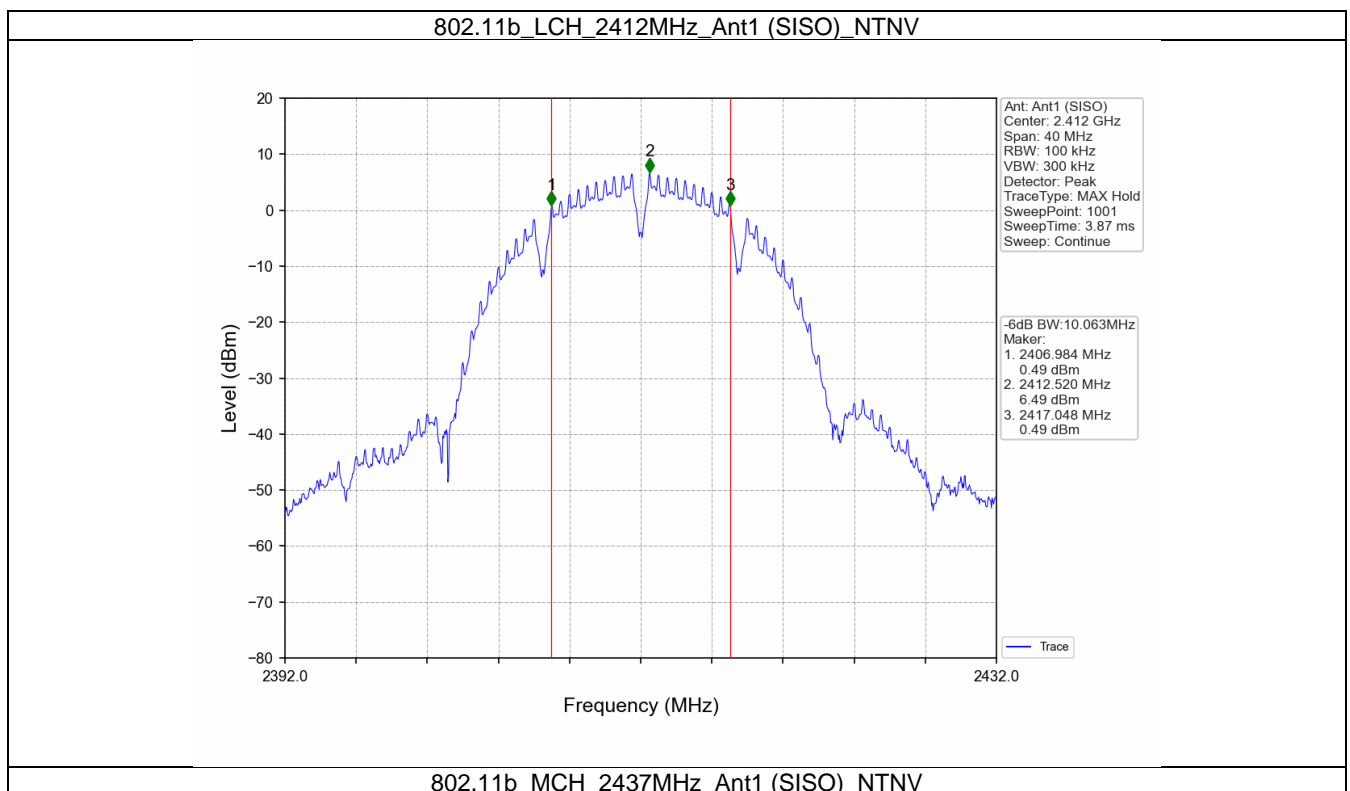
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2.2 6dB BW

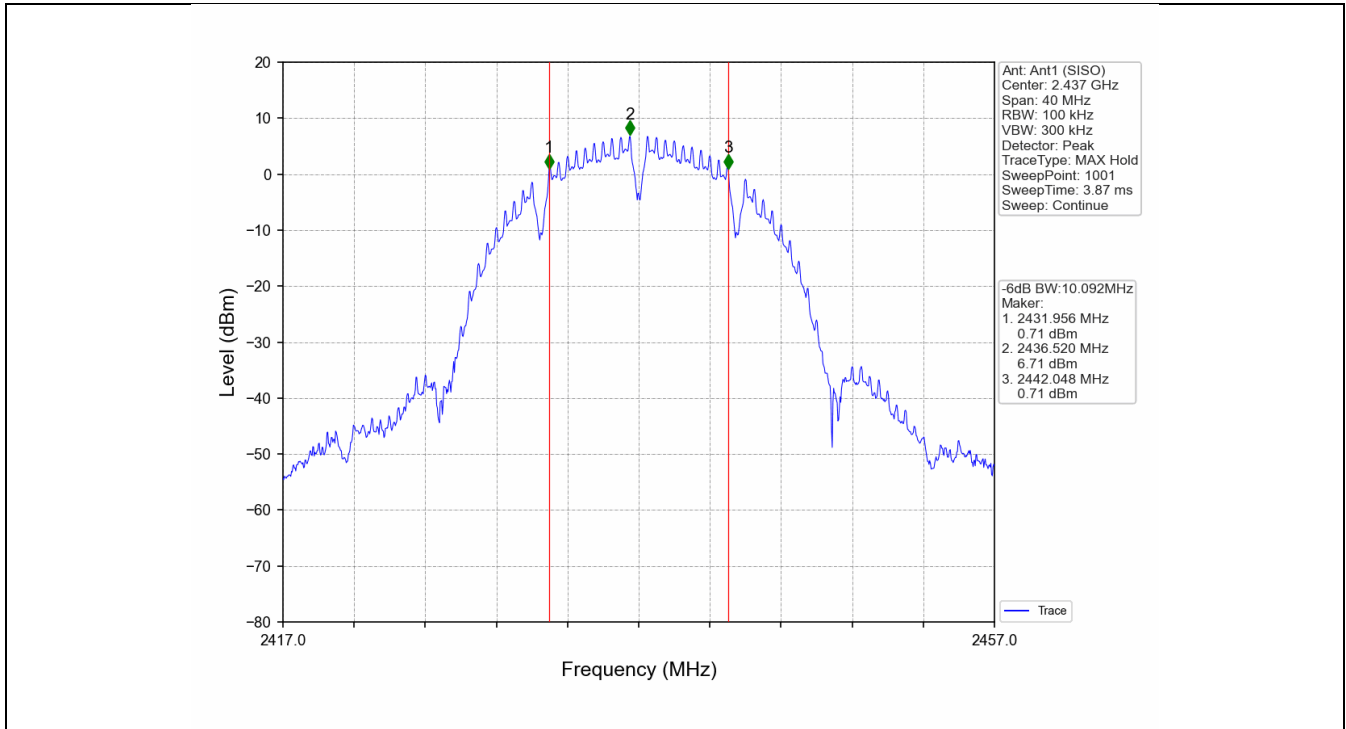
2.2.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)	Limit	Verdict
NTNV	802.11b	SISO	2412	1	10.06	>=0.5	Pass
			2437	1	10.09	>=0.5	Pass
			2462	1	10.09	>=0.5	Pass
	802.11g	SISO	2412	1	16.39	>=0.5	Pass
			2437	1	16.39	>=0.5	Pass
			2462	1	16.38	>=0.5	Pass
	802.11n (HT20)	SISO	2412	1	17.57	>=0.5	Pass
			2437	1	17.55	>=0.5	Pass
			2462	1	17.57	>=0.5	Pass
	802.11n (HT40)	SISO	2422	1	35.16	>=0.5	Pass
			2437	1	35.17	>=0.5	Pass
			2452	1	35.18	>=0.5	Pass

2.2.2 Test Graph



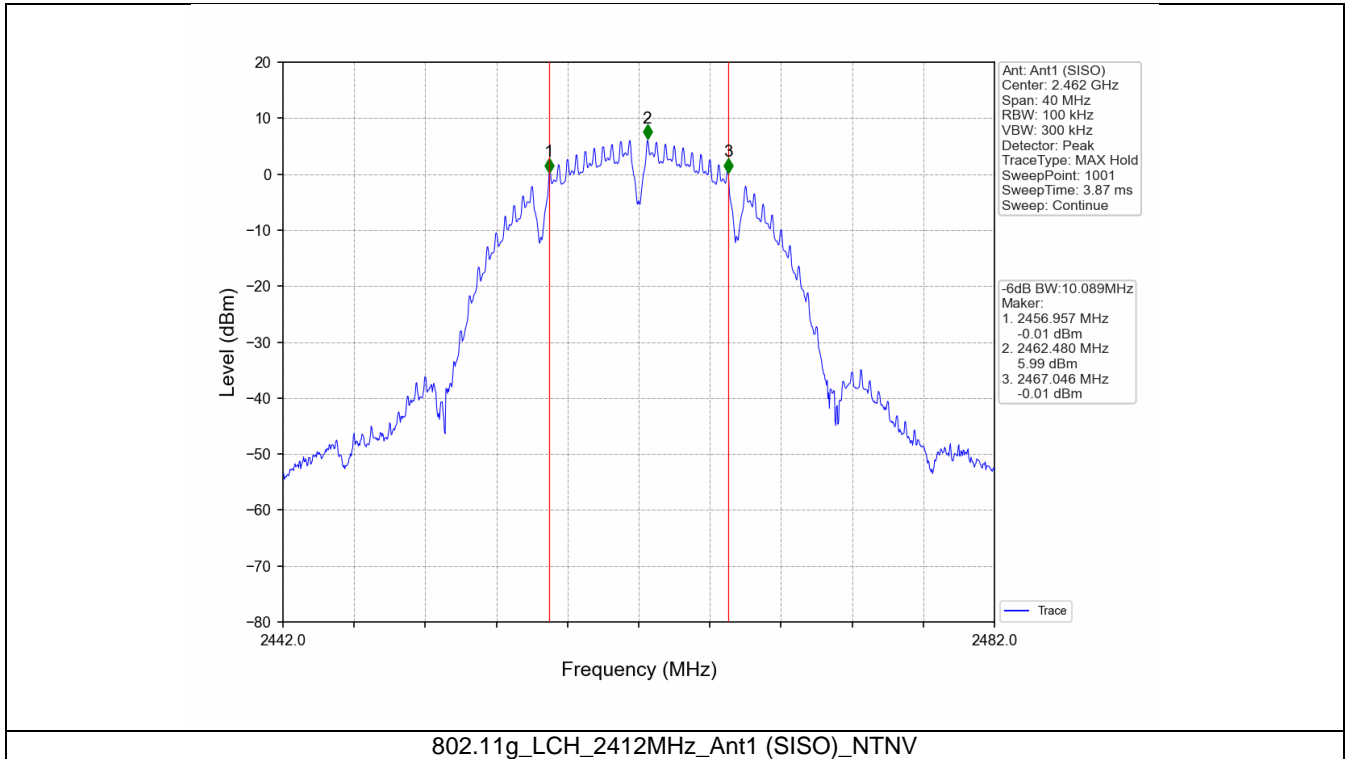
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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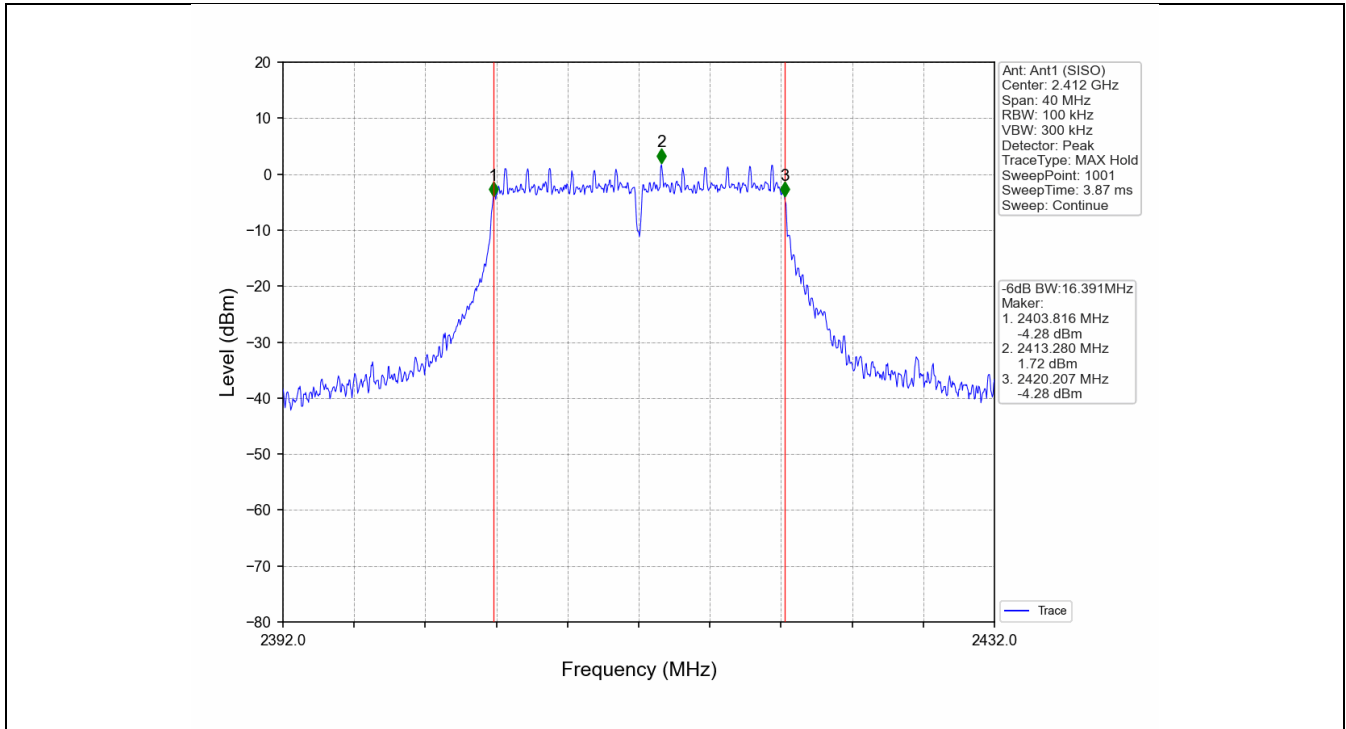


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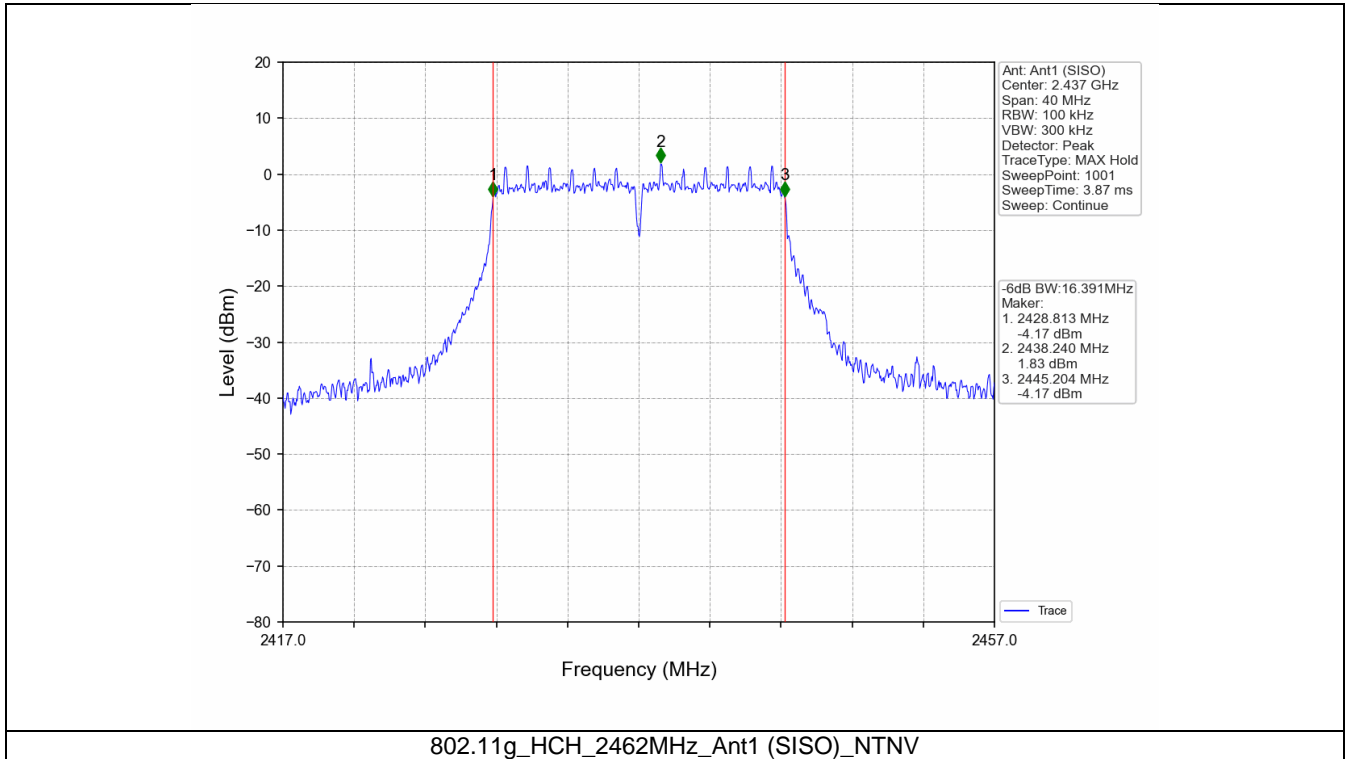


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



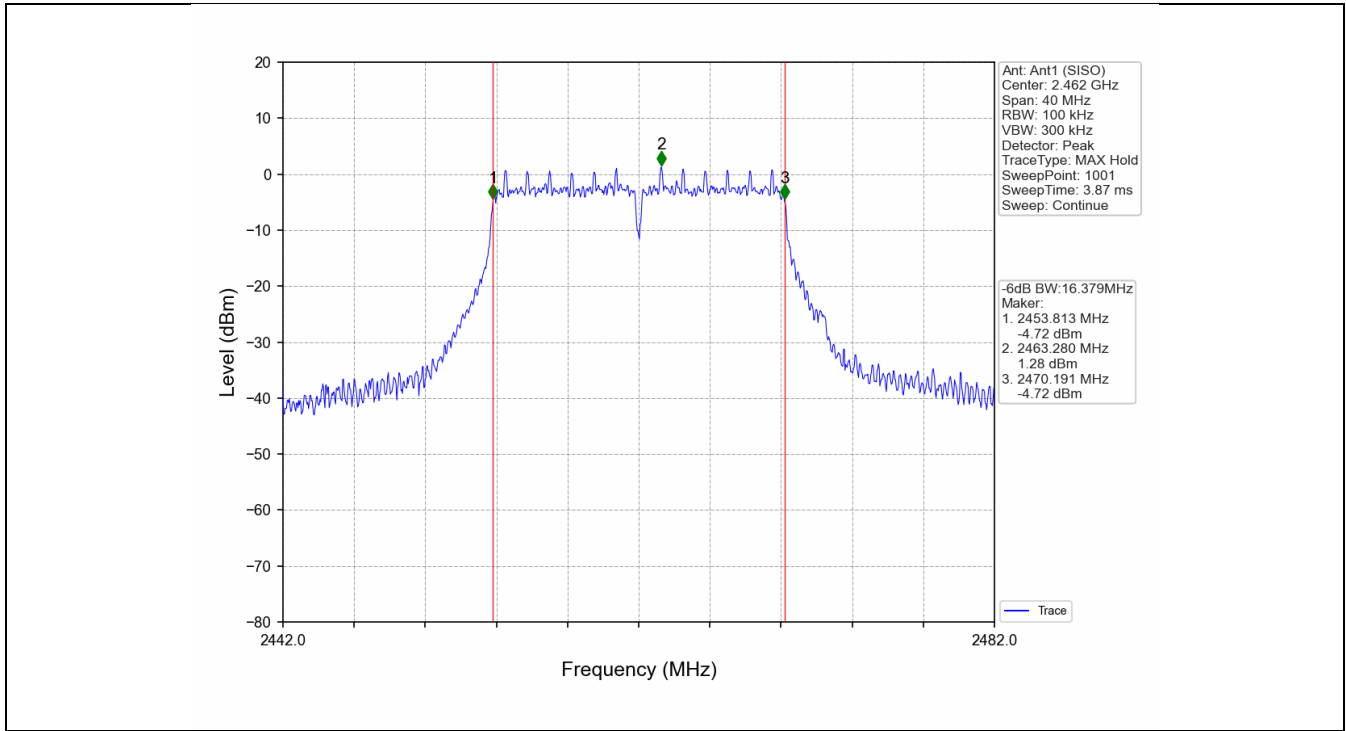
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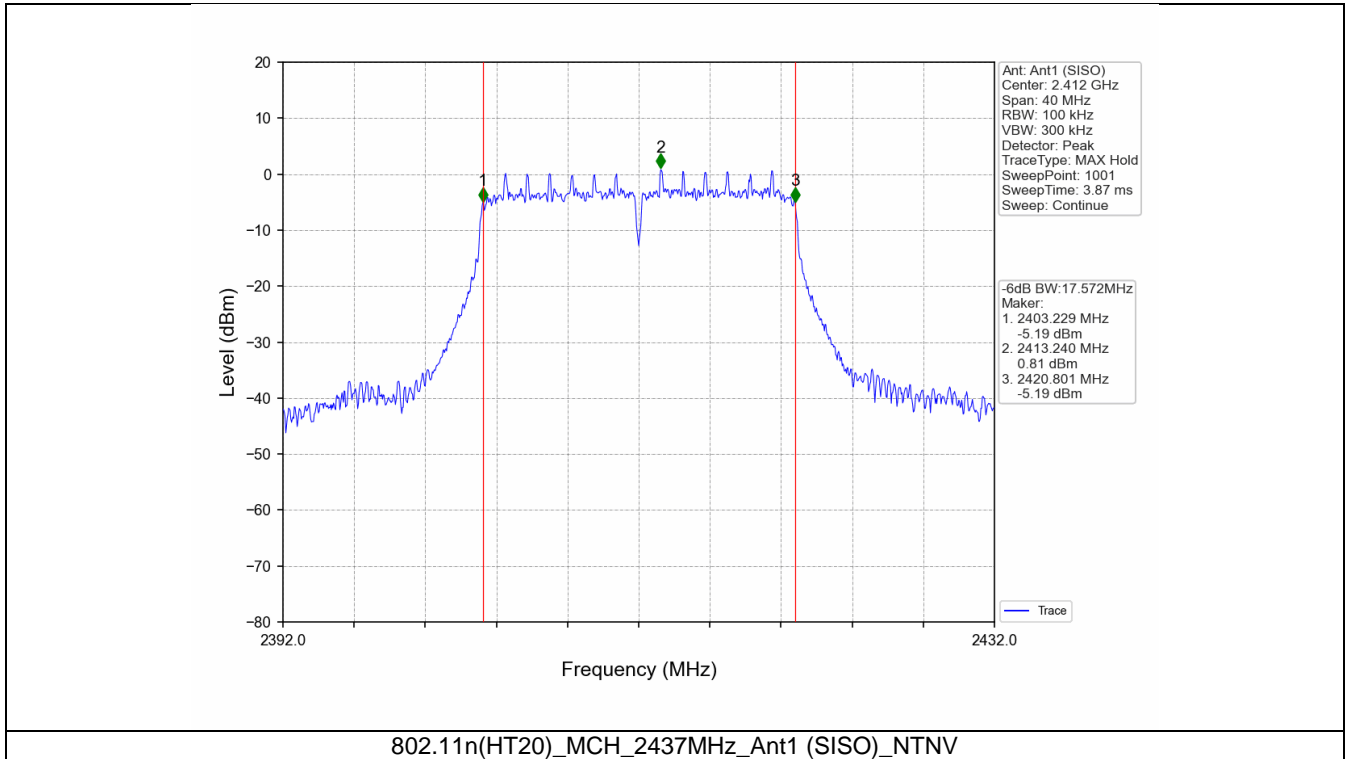
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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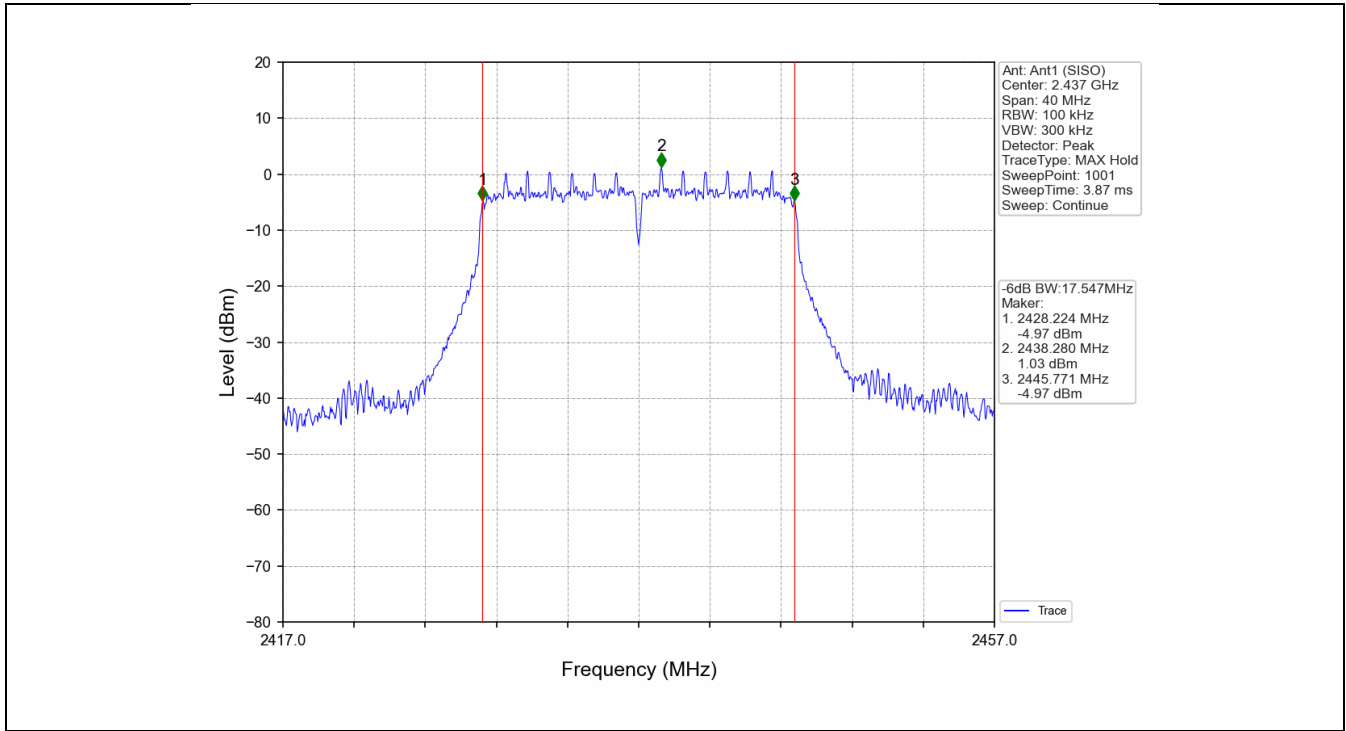


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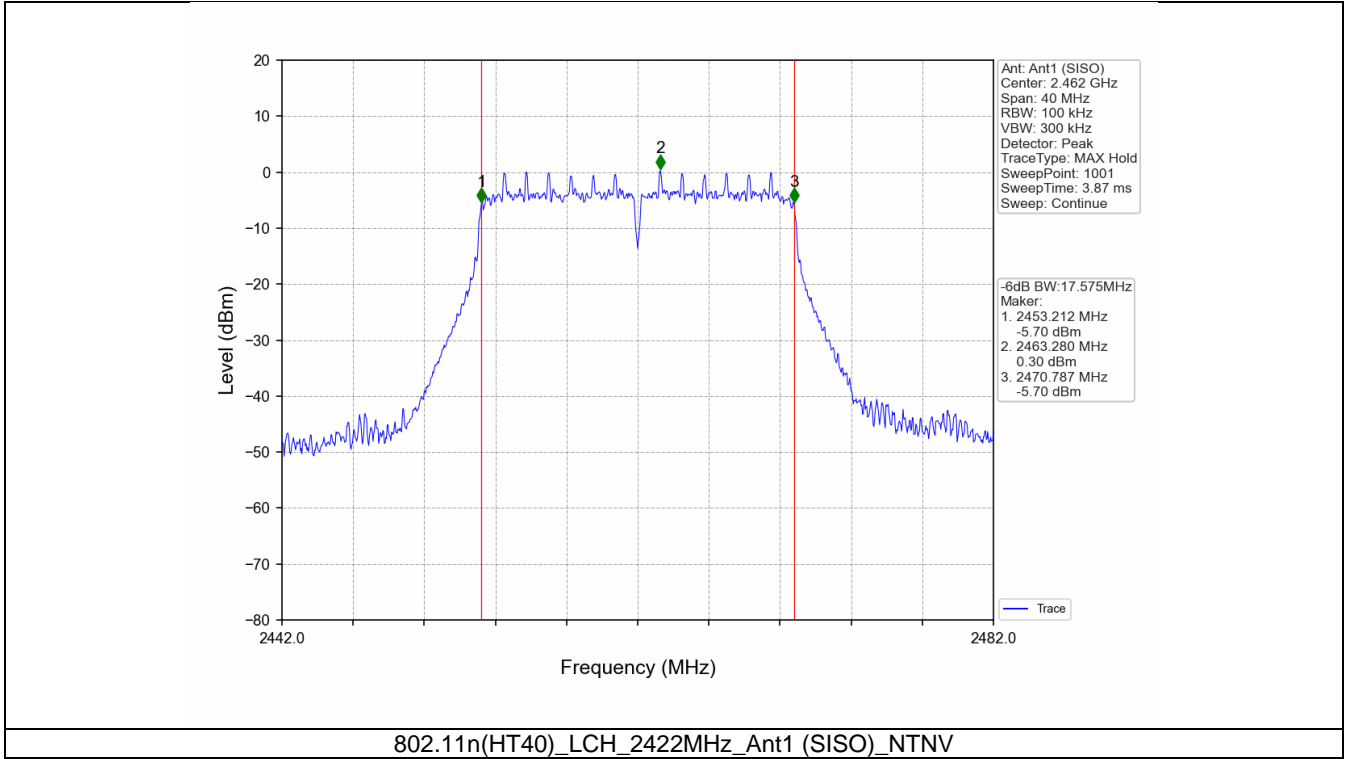


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



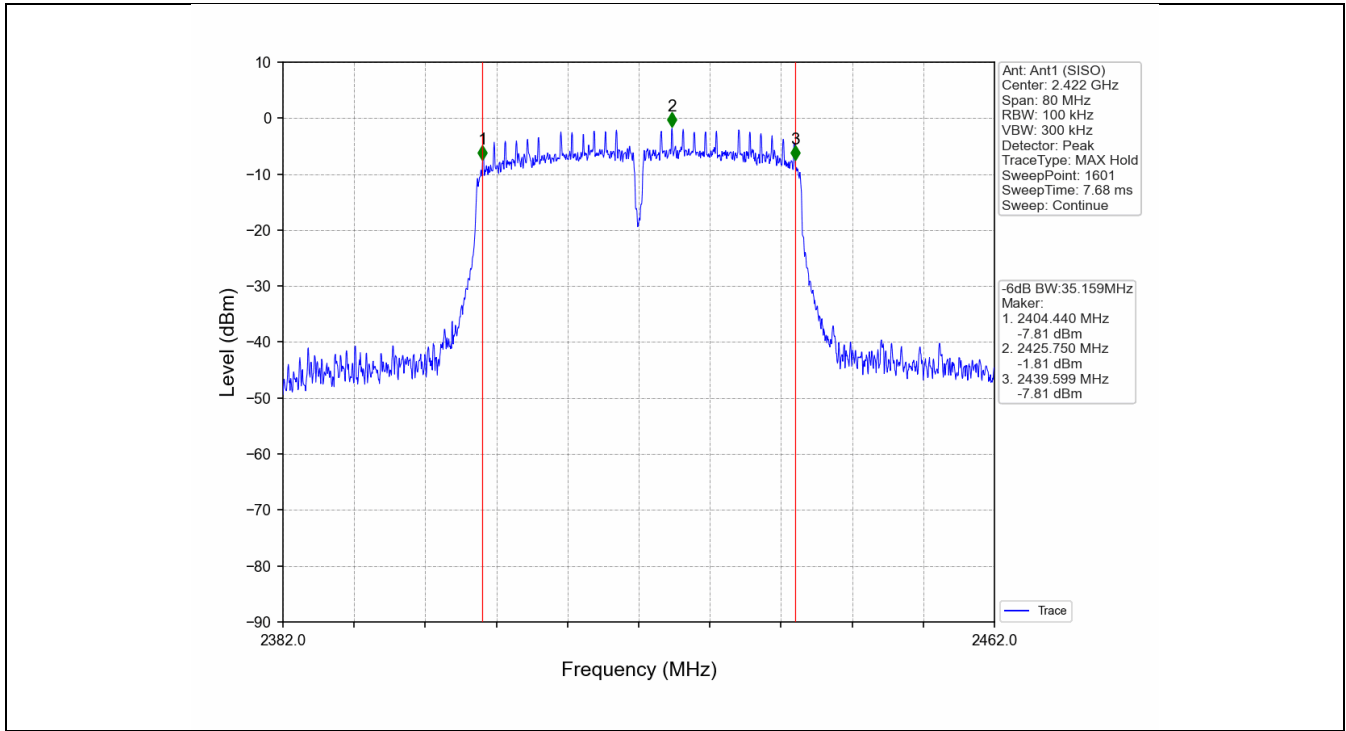
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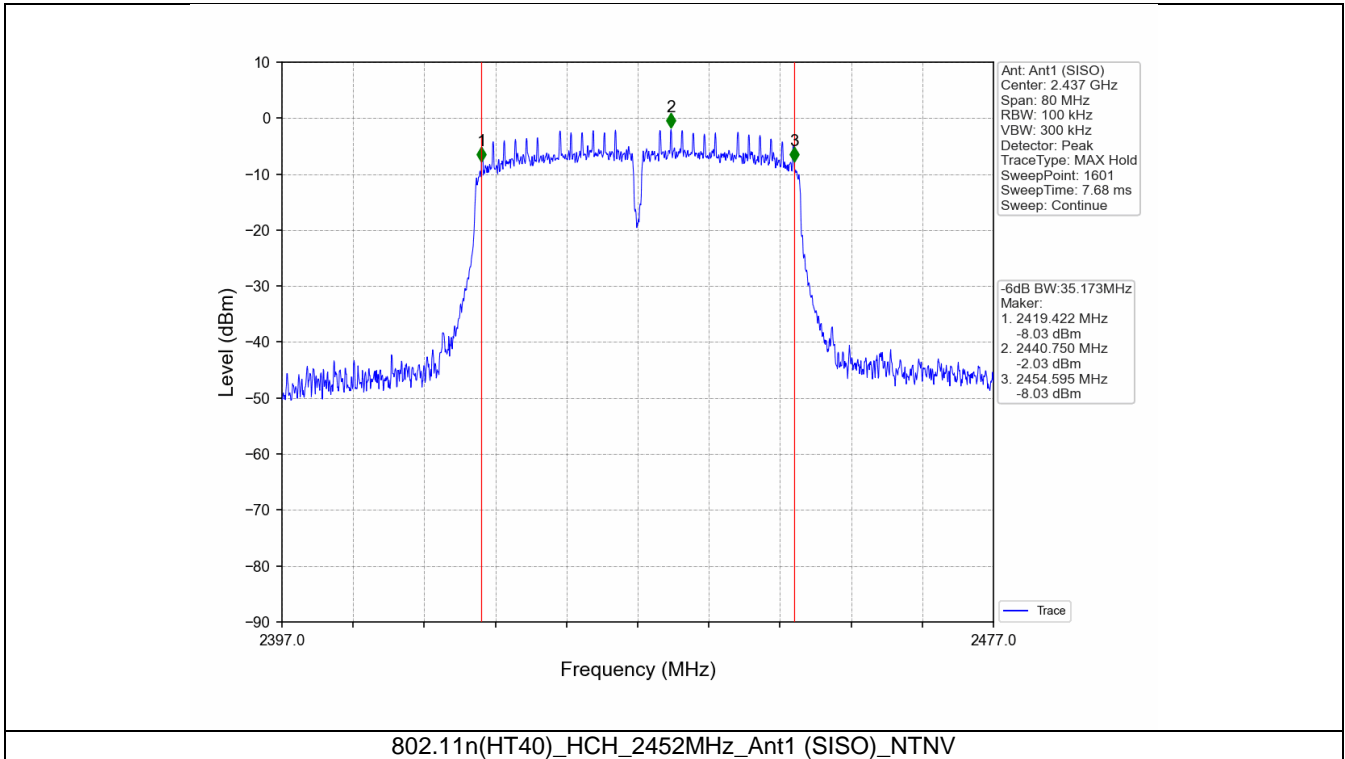


802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



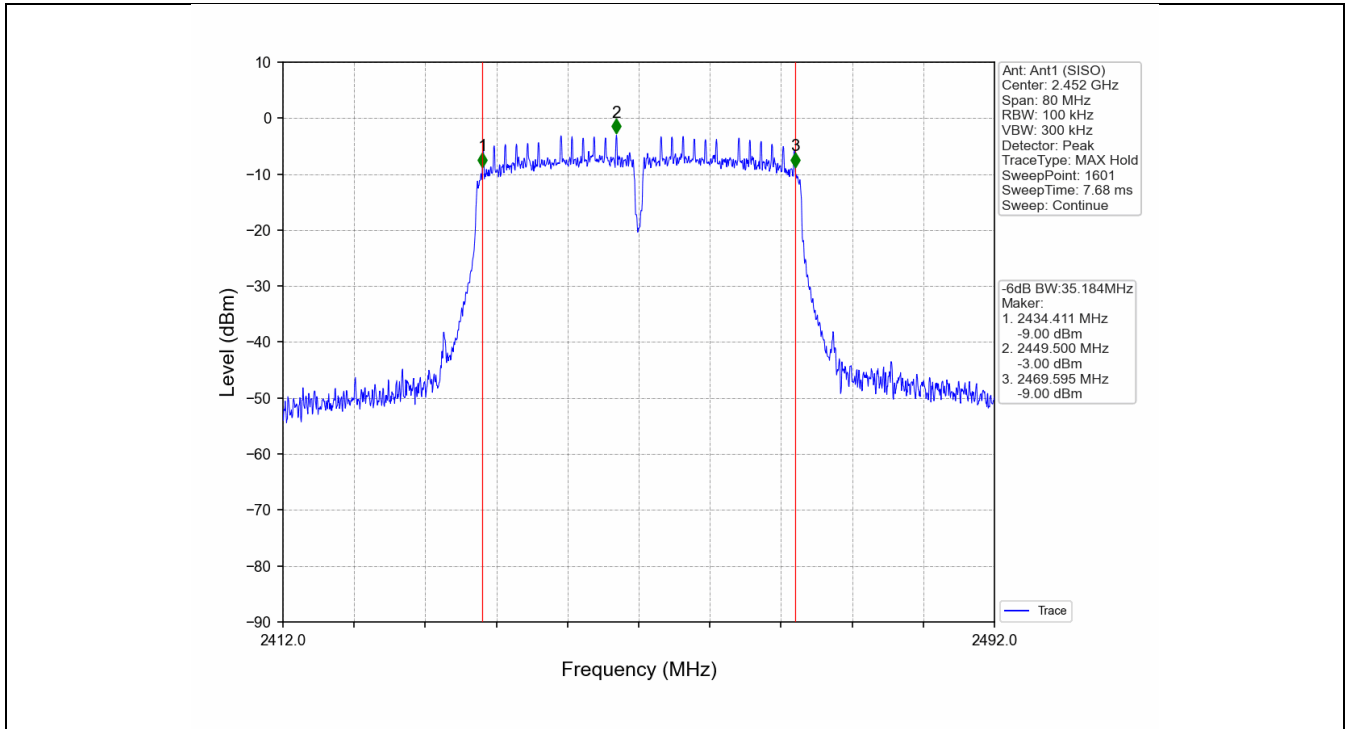
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	Measured Peak Output Power (dBm)		Verdict
				Ant1	Limit	
NTNV	802.11b	SISO	2412	17.73	<=30	Pass
			2437	18.64	<=30	Pass
			2462	17.39	<=30	Pass
	802.11g	SISO	2412	20.72	<=30	Pass
			2437	20.76	<=30	Pass
			2462	20.09	<=30	Pass
	802.11n (HT20)	SISO	2412	19.71	<=30	Pass
			2437	19.89	<=30	Pass
			2462	19.14	<=30	Pass
	802.11n (HT40)	SISO	2422	19.57	<=30	Pass
			2437	19.43	<=30	Pass
			2452	18.46	<=30	Pass

Note1: Antenna Gain: Ant1: 3.00dBi;



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
				Ant1	Limit	
NTNV	802.11b	SISO	2412	-8.43	<=8	Pass
			2437	-7.42	<=8	Pass
			2462	-7.68	<=8	Pass
	802.11g	SISO	2412	-11.66	<=8	Pass
			2437	-12.13	<=8	Pass
			2462	-13.71	<=8	Pass
	802.11n (HT20)	SISO	2412	-13.10	<=8	Pass
			2437	-12.89	<=8	Pass
			2462	-13.79	<=8	Pass
	802.11n (HT40)	SISO	2422	-15.30	<=8	Pass
			2437	-15.44	<=8	Pass
			2452	-16.71	<=8	Pass

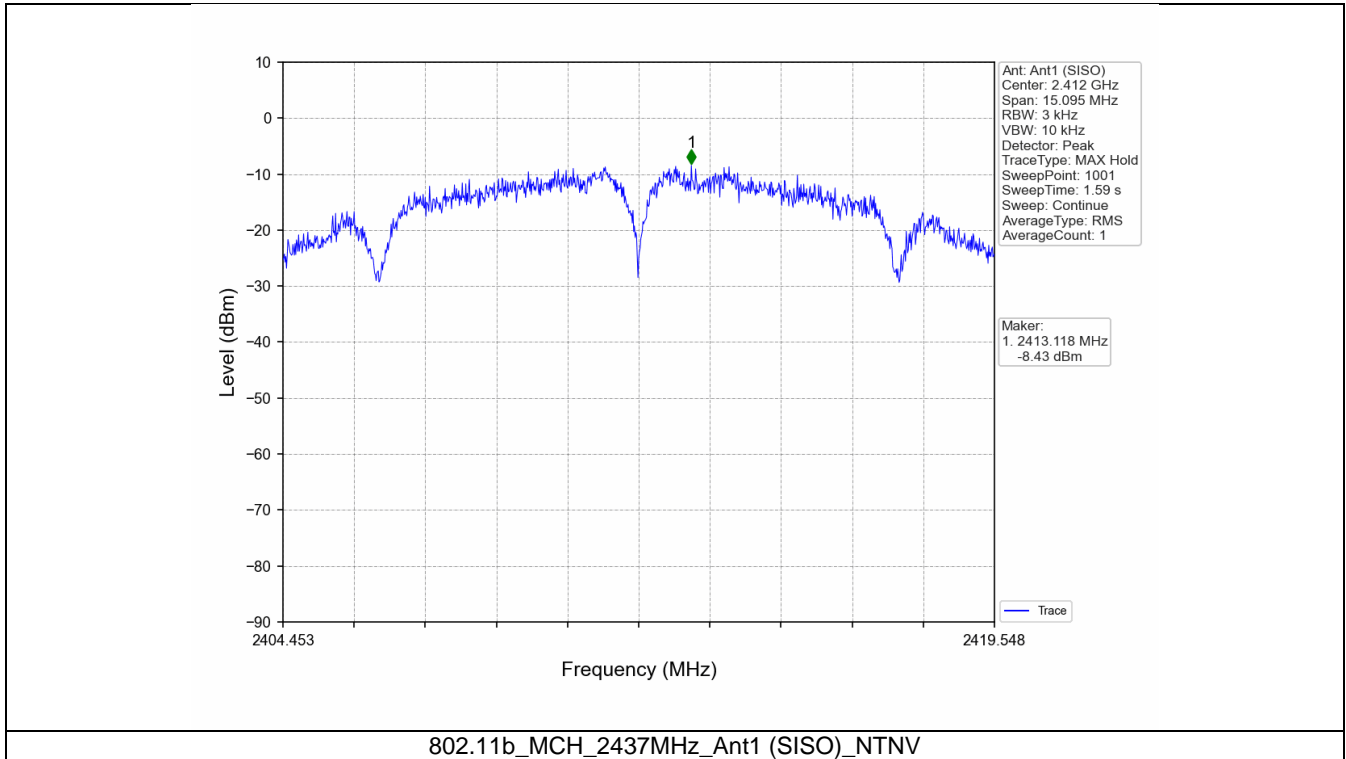
Note1: Antenna Gain: Ant1: 0.00dBi;

4.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

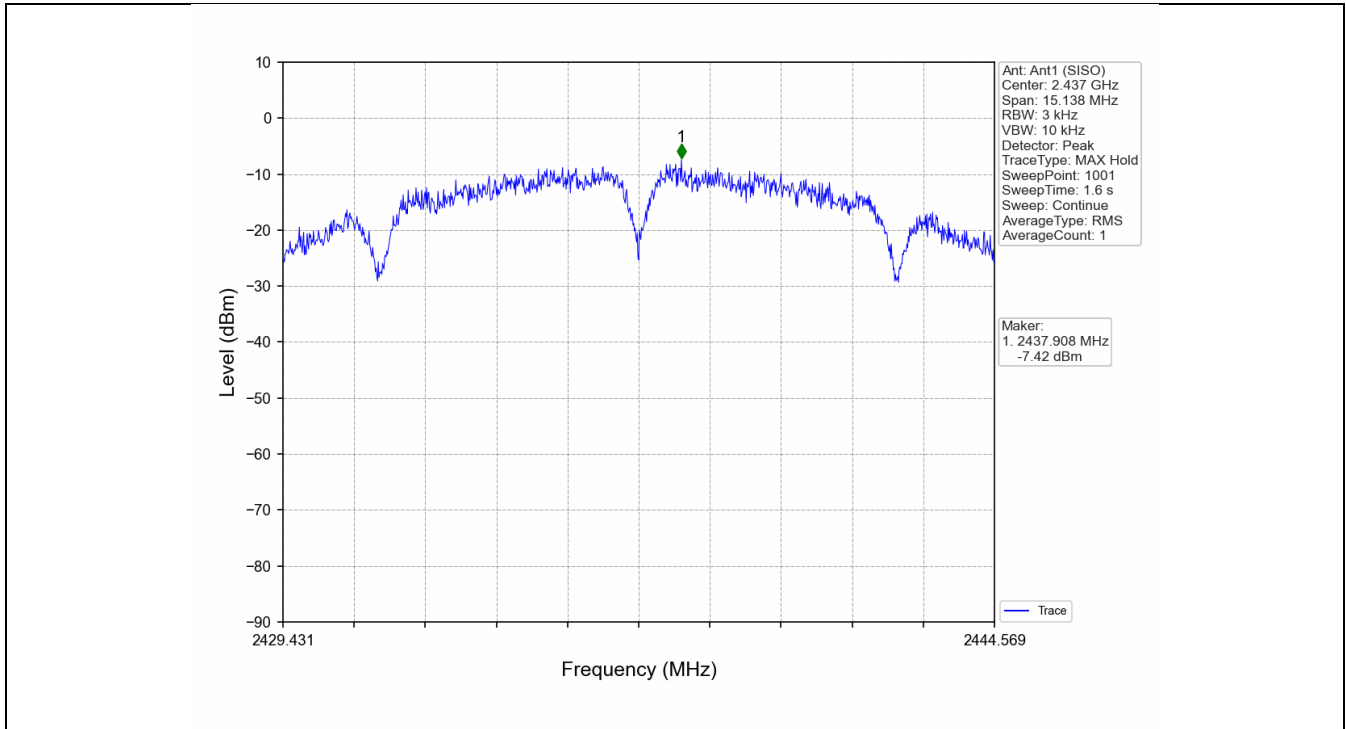


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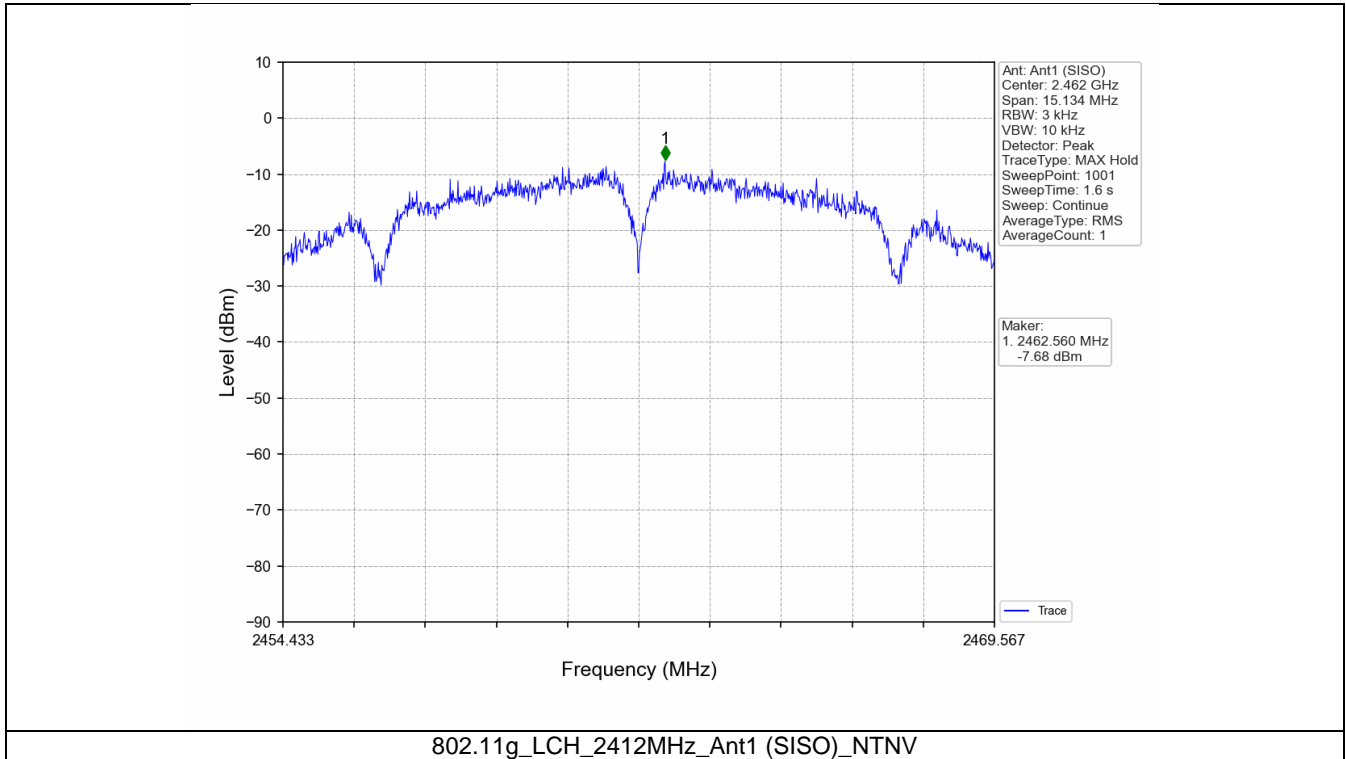
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

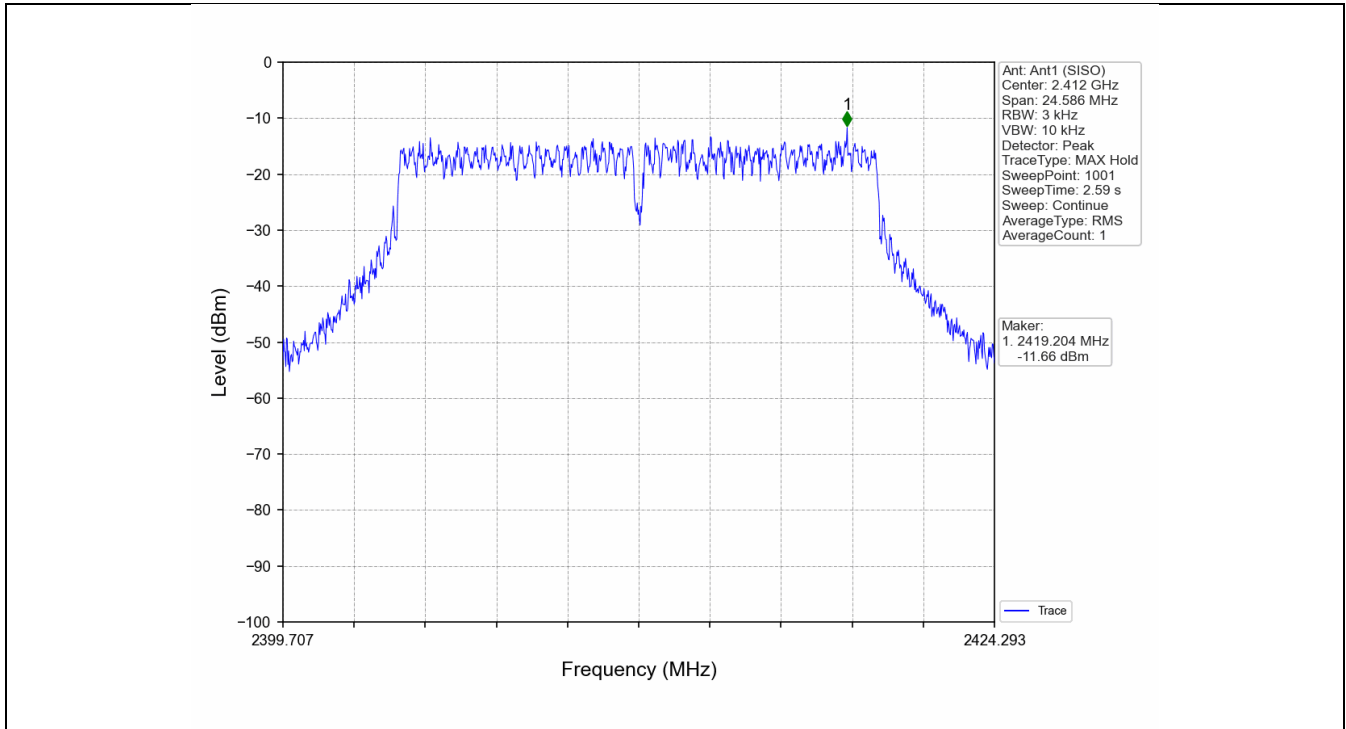


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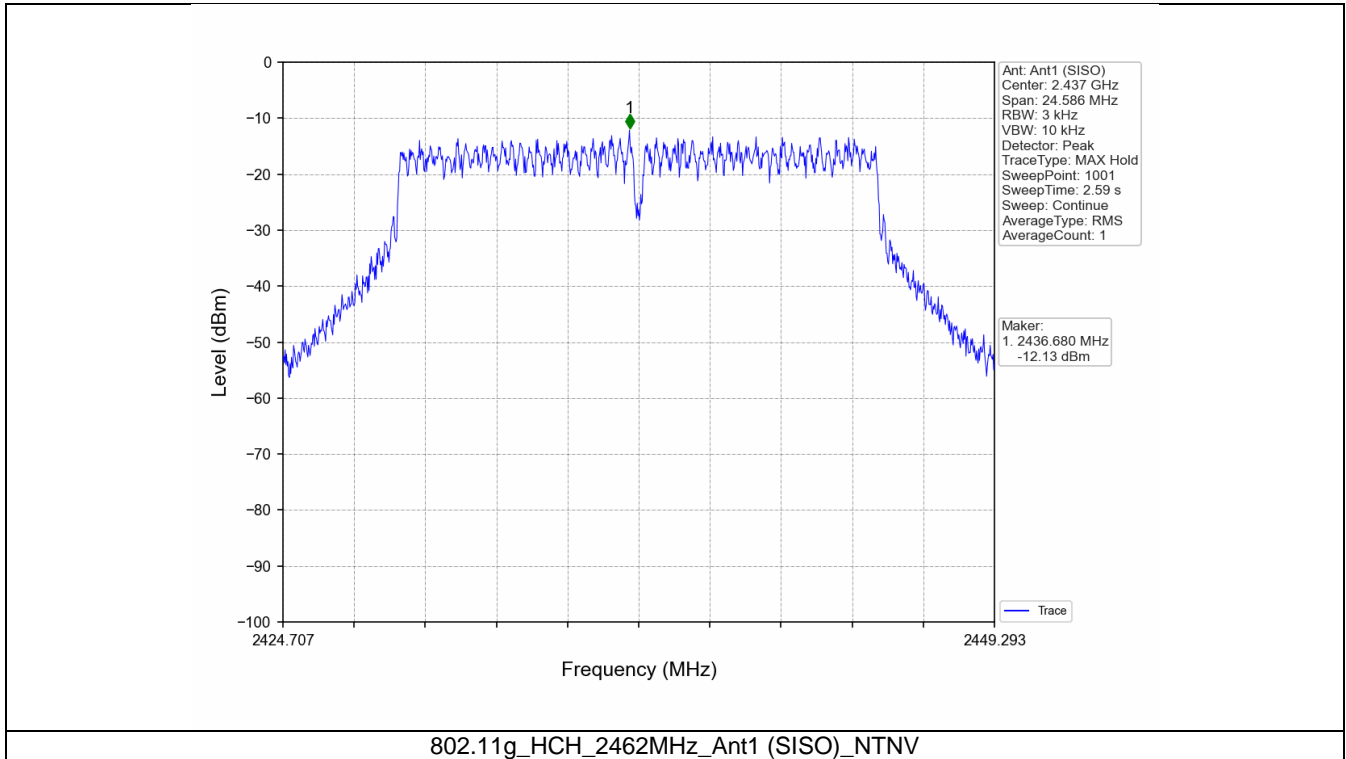


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



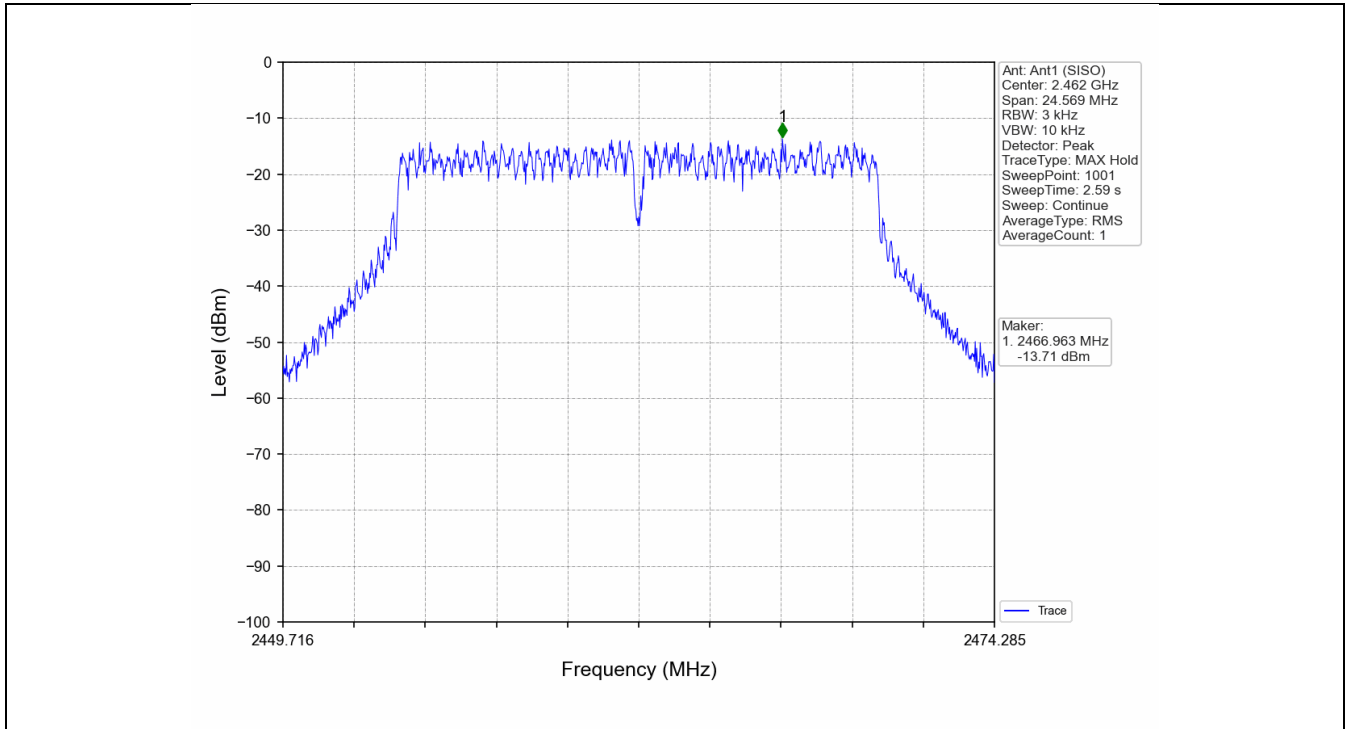
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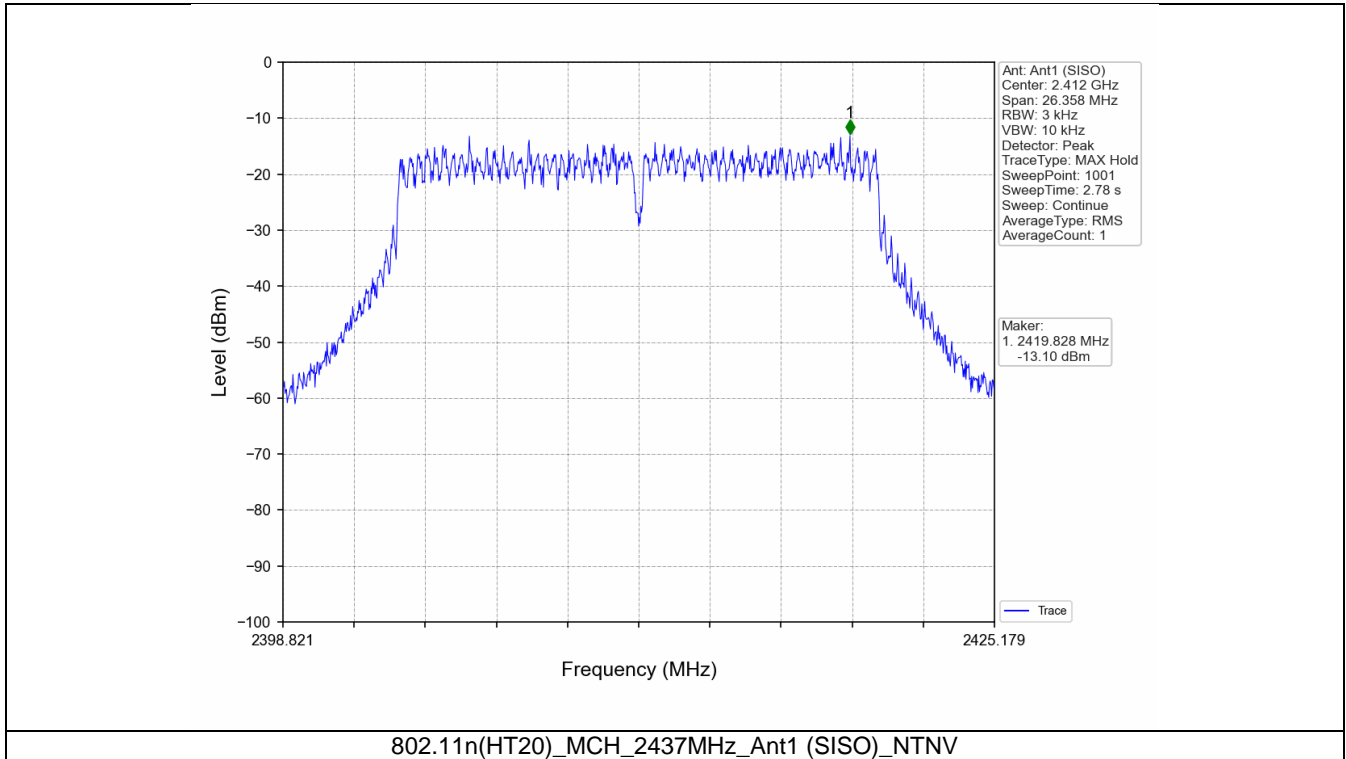


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



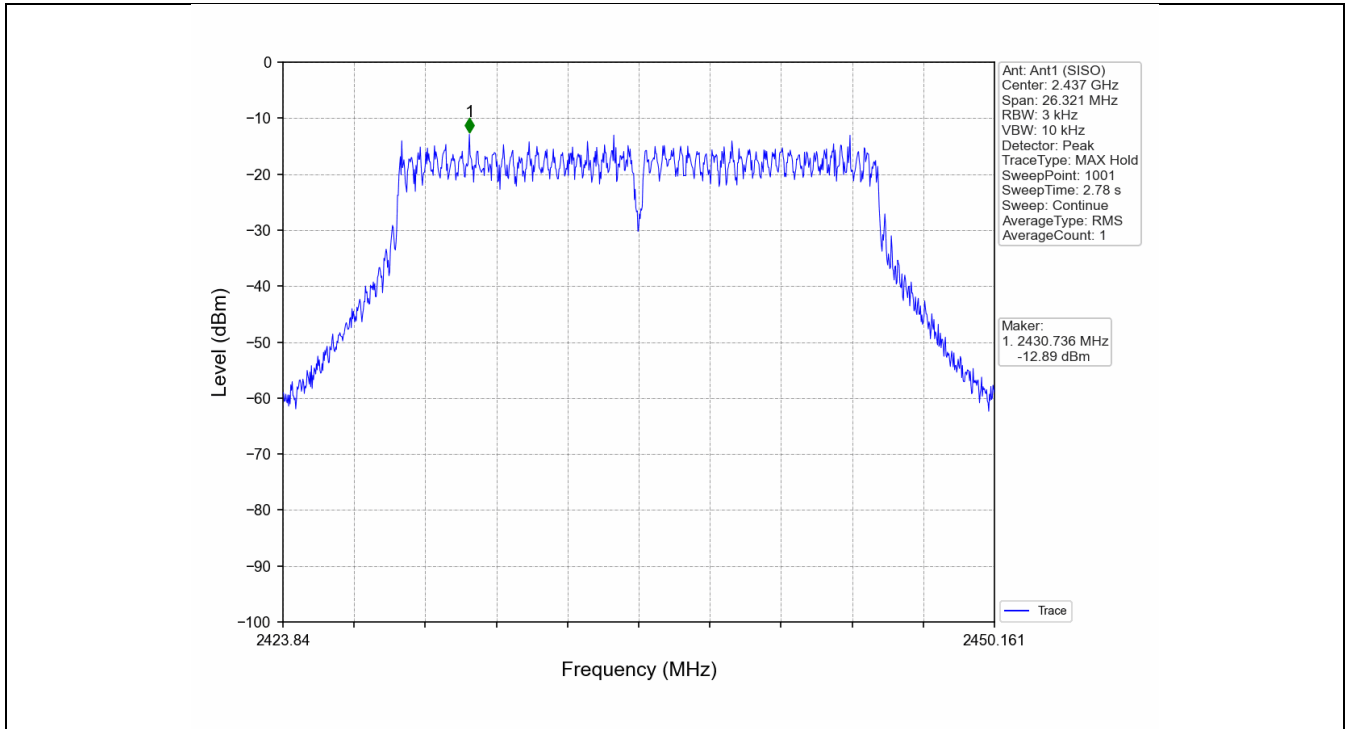
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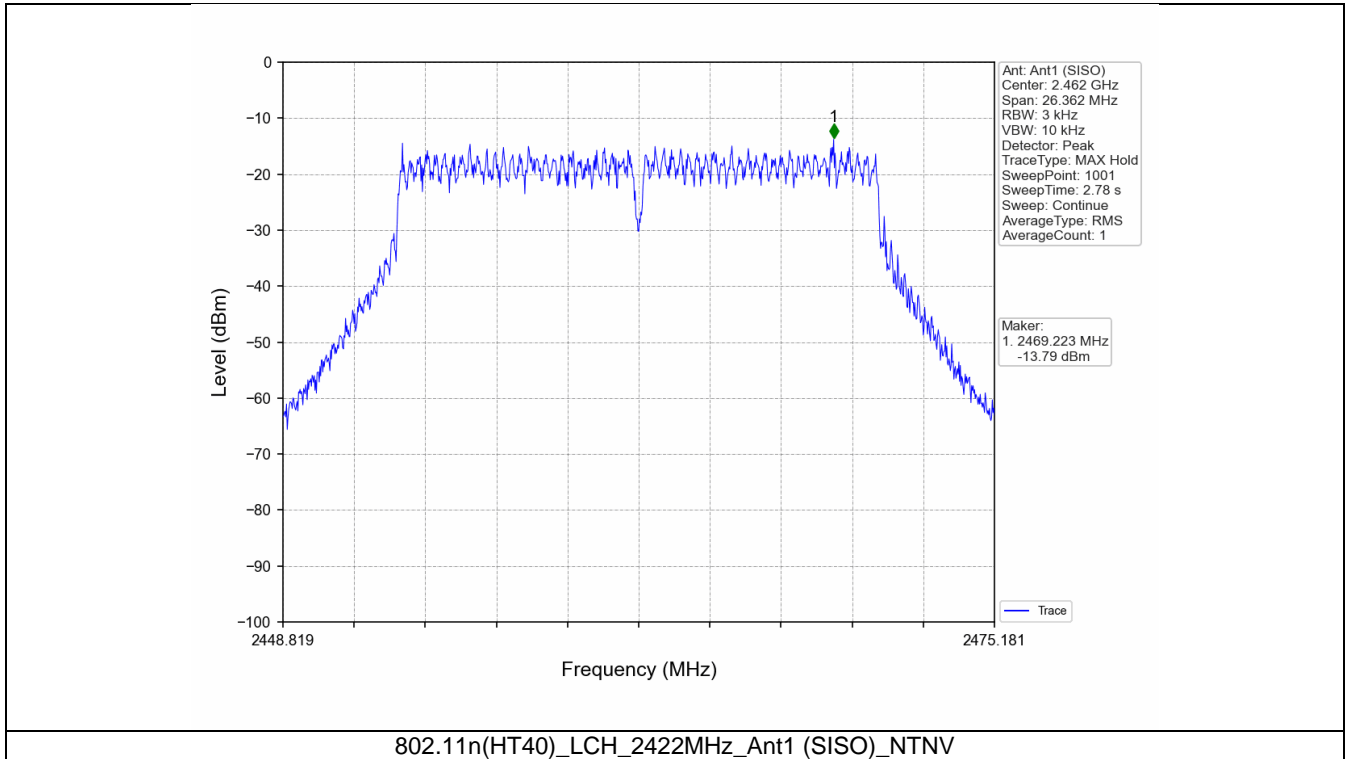
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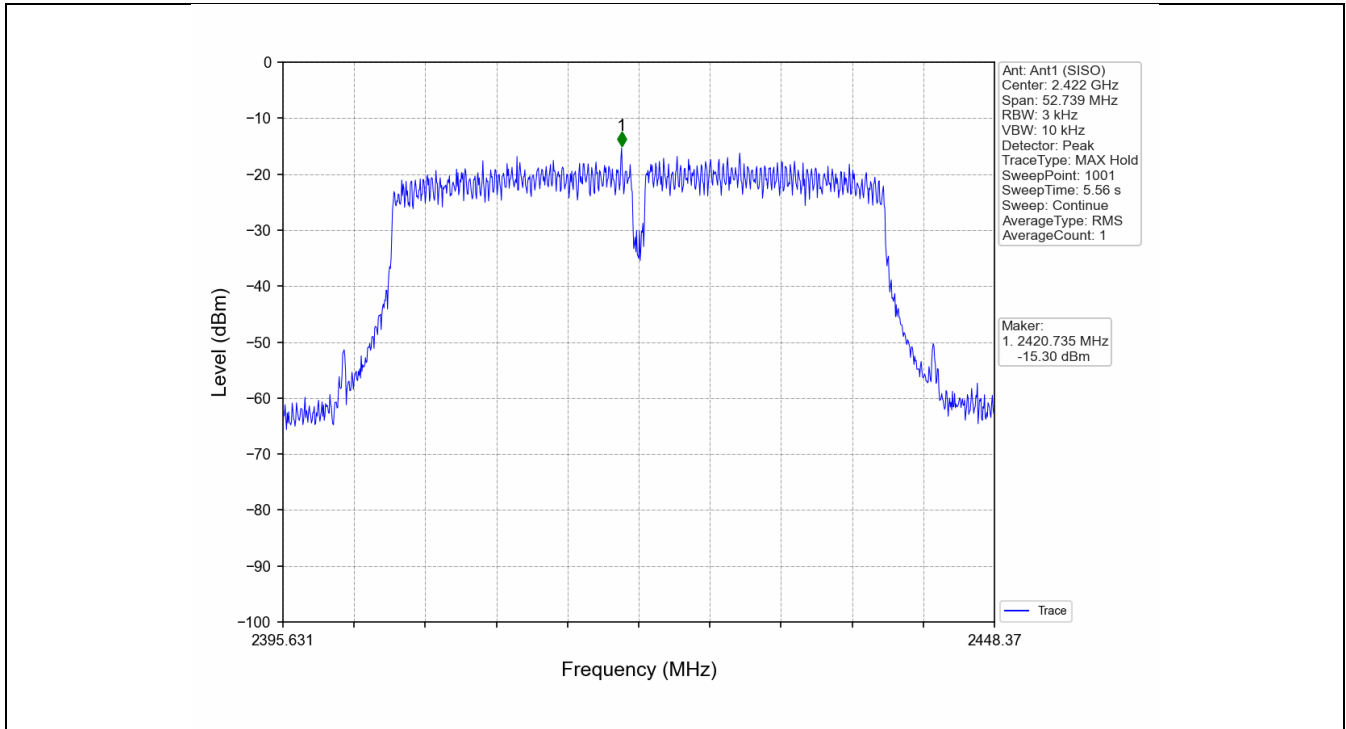


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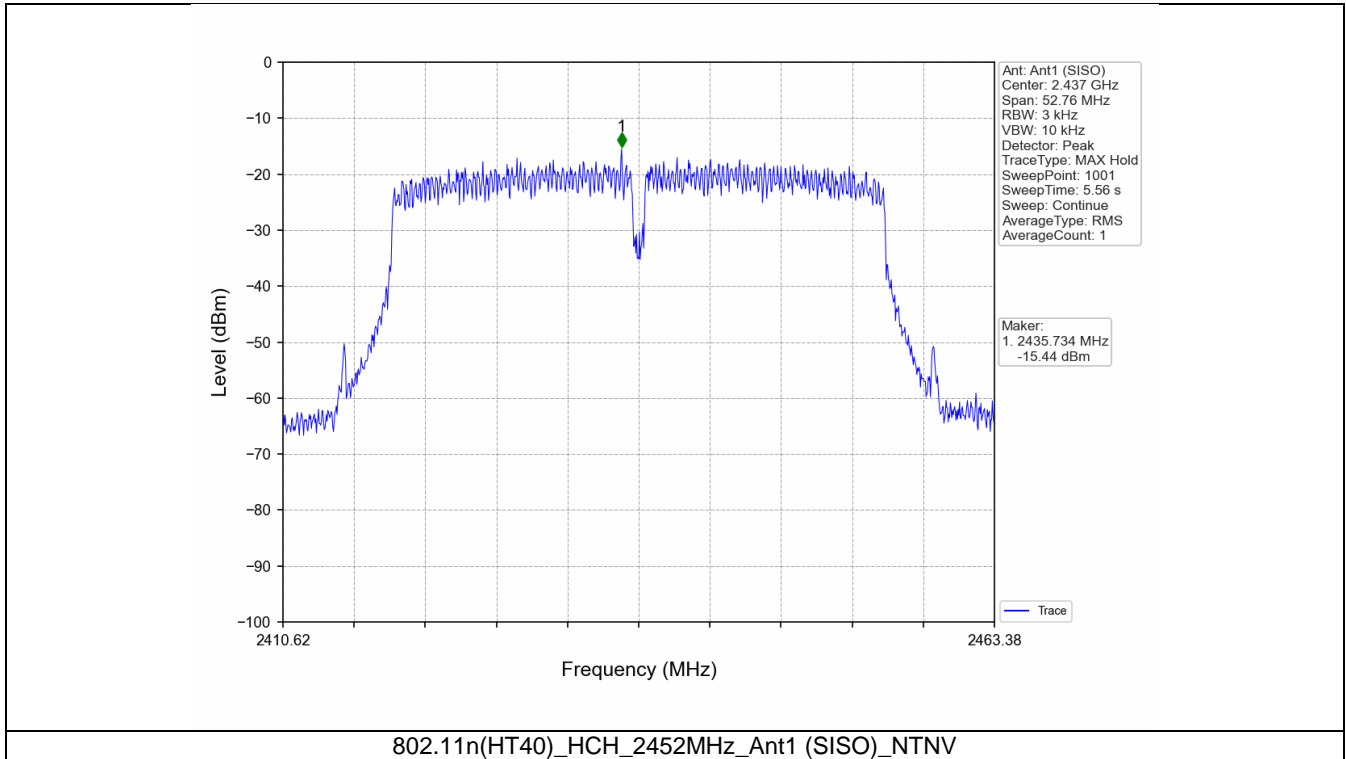
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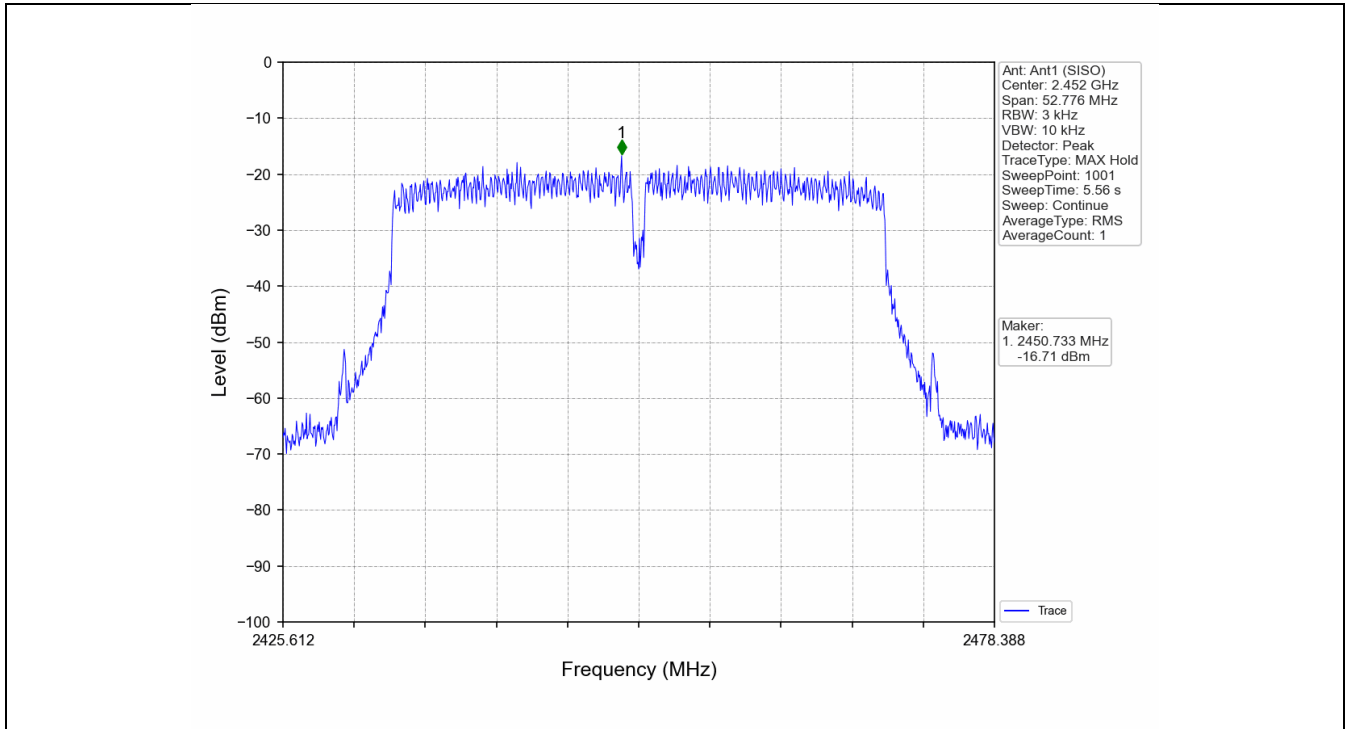


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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

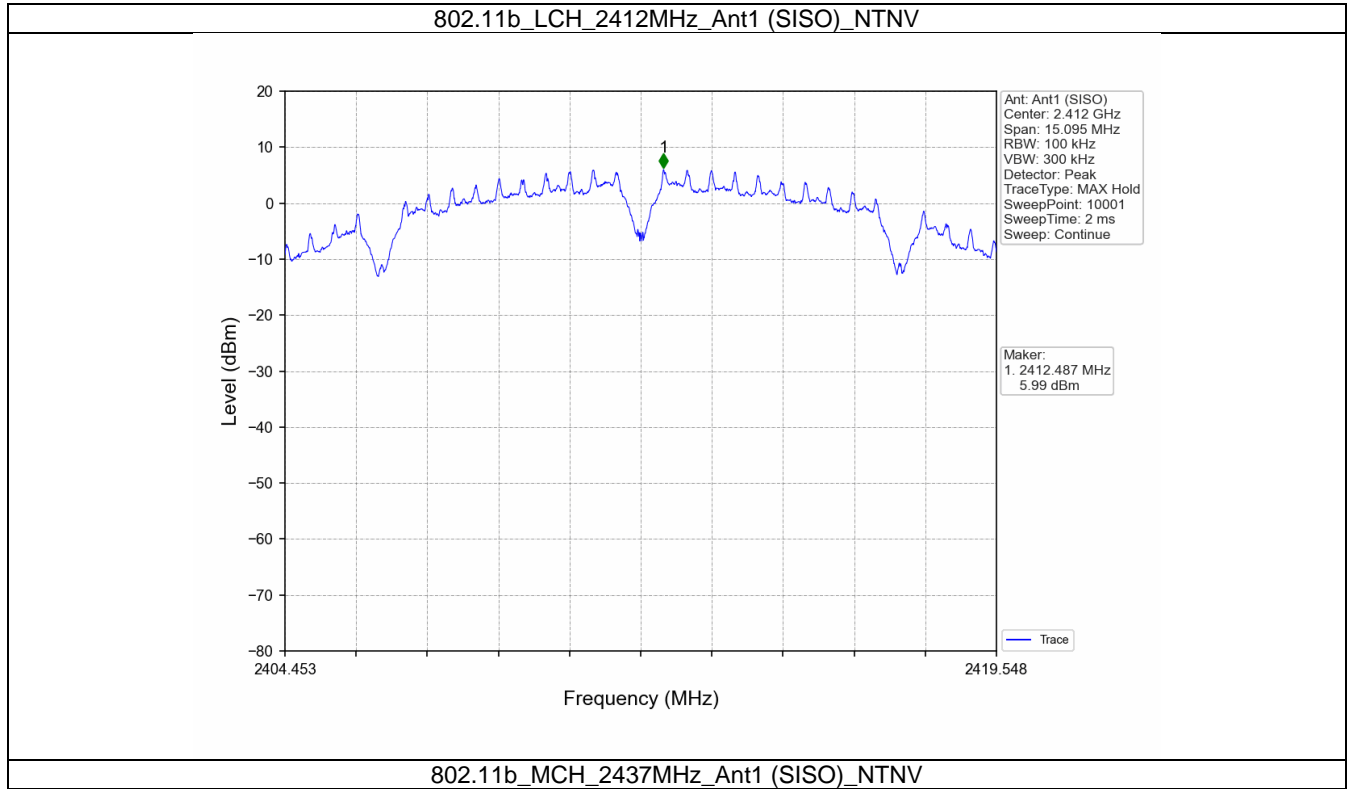
ENV	Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
NTNV	802.11b	SISO	2412	1	5.99	/	/
			2437	1	6.50	/	/
			2462	1	5.72	/	/
	802.11g	SISO	2412	1	1.69	/	/
			2437	1	1.50	/	/
			2462	1	1.37	/	/
	802.11n (HT20)	SISO	2412	1	0.69	/	/
			2437	1	1.14	/	/
			2462	1	-0.13	/	/
	802.11n (HT40)	SISO	2422	1	-2.13	/	/
			2437	1	-2.20	/	/
			2452	1	-3.22	/	/

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.



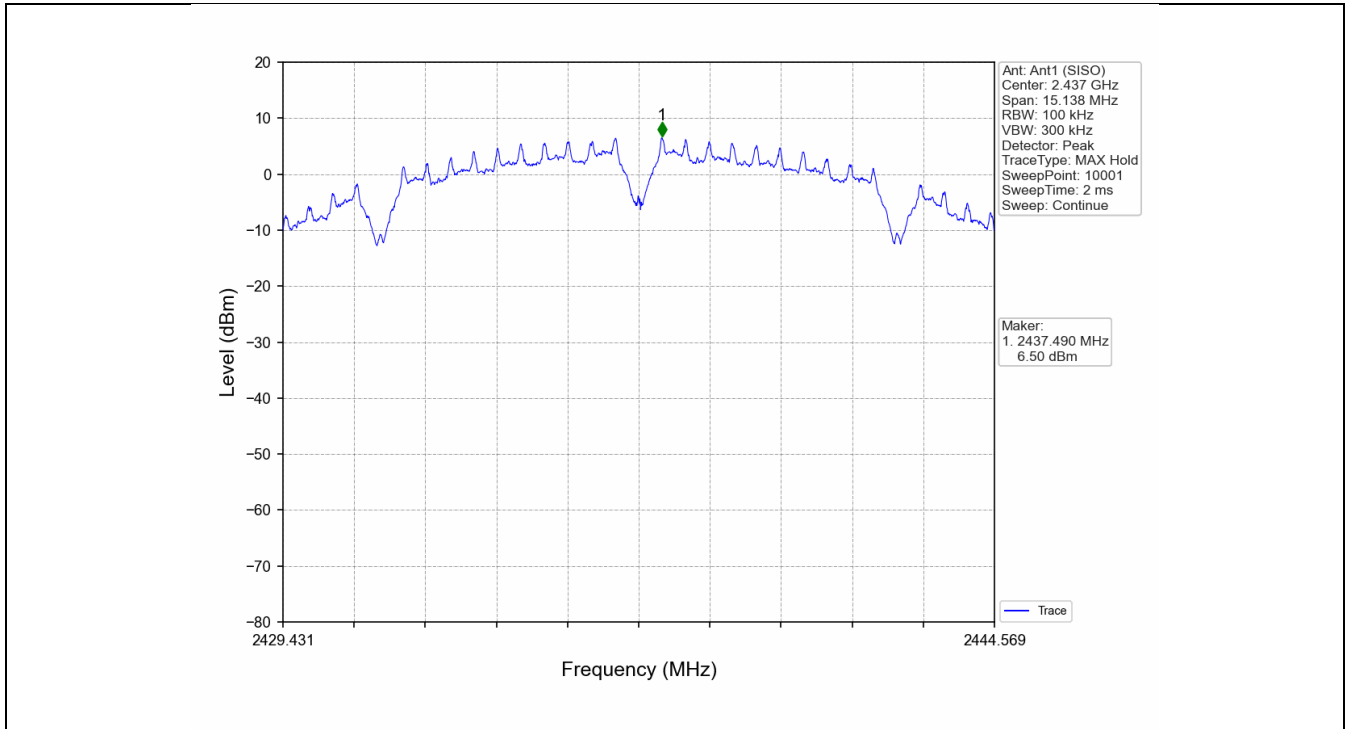
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5.1.2 Test Graph



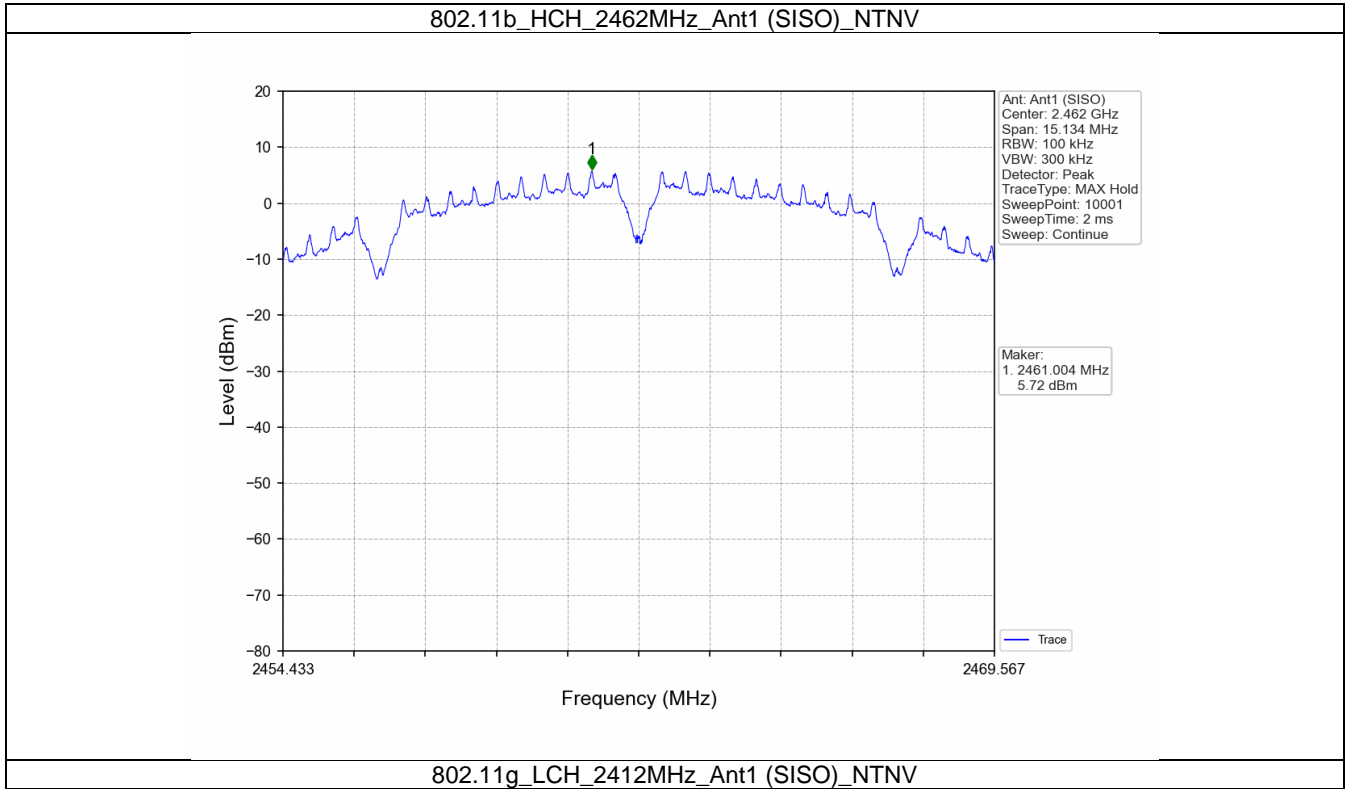
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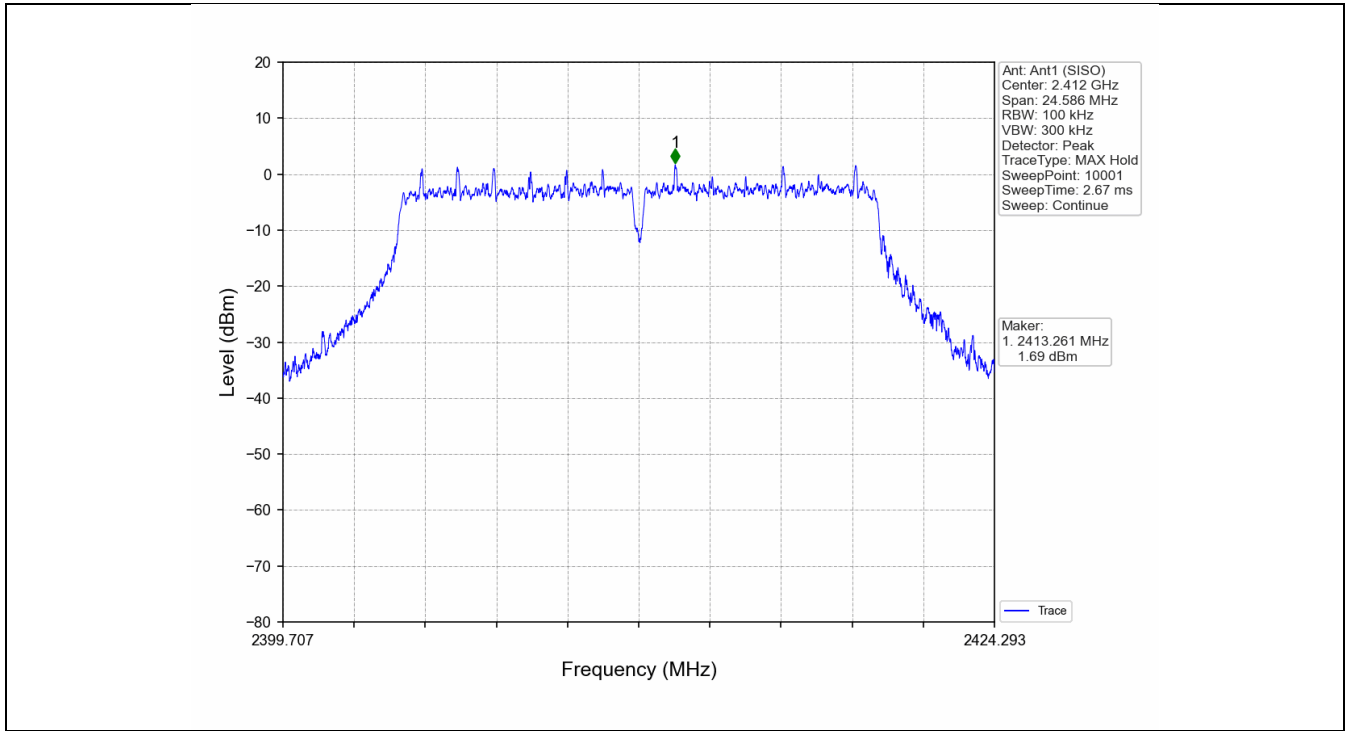
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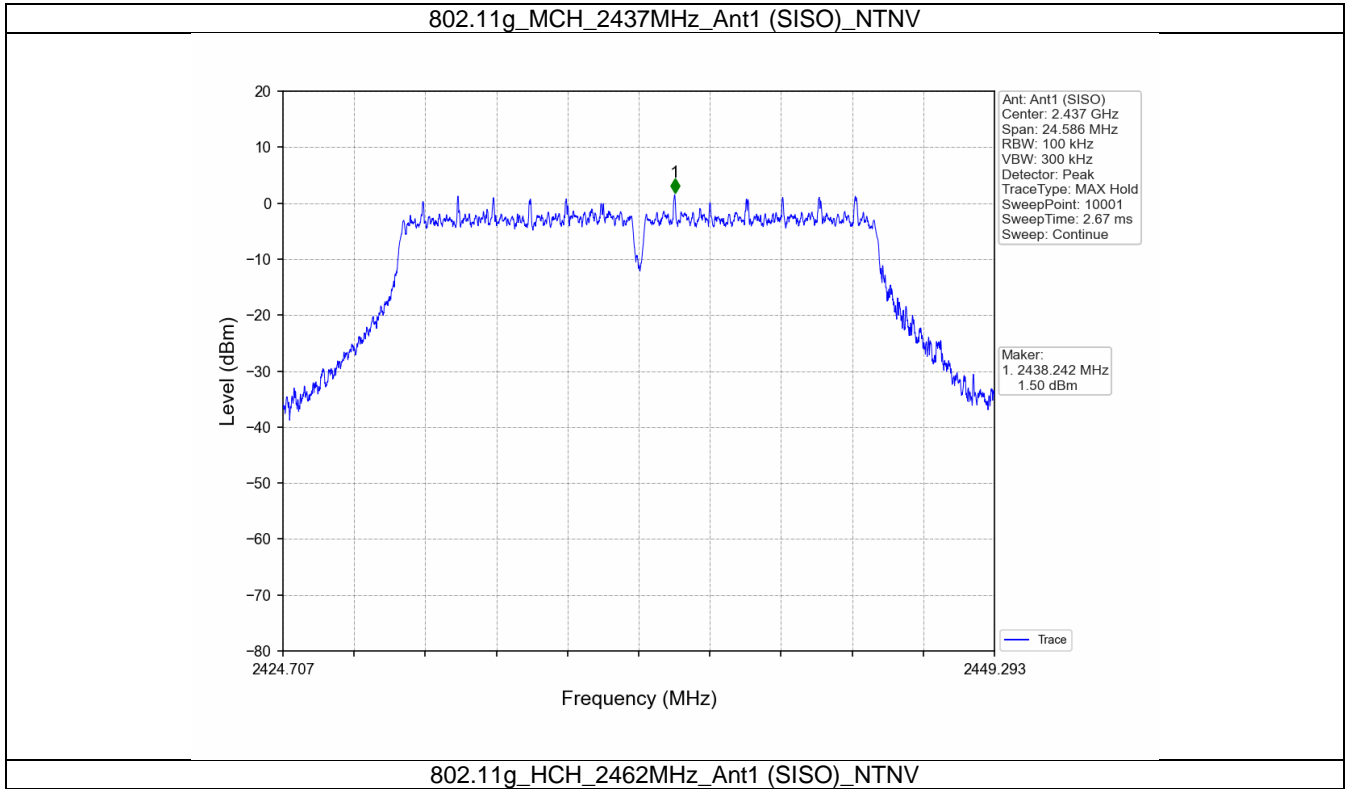
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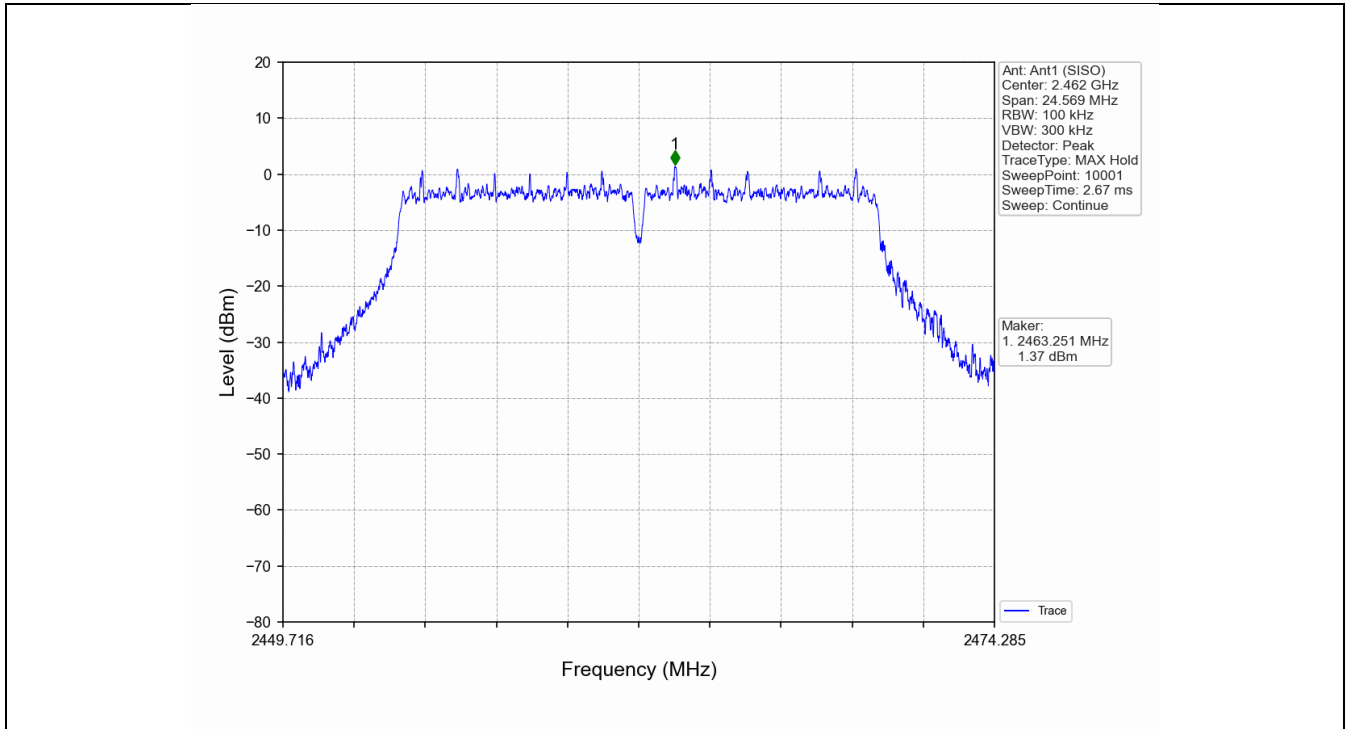
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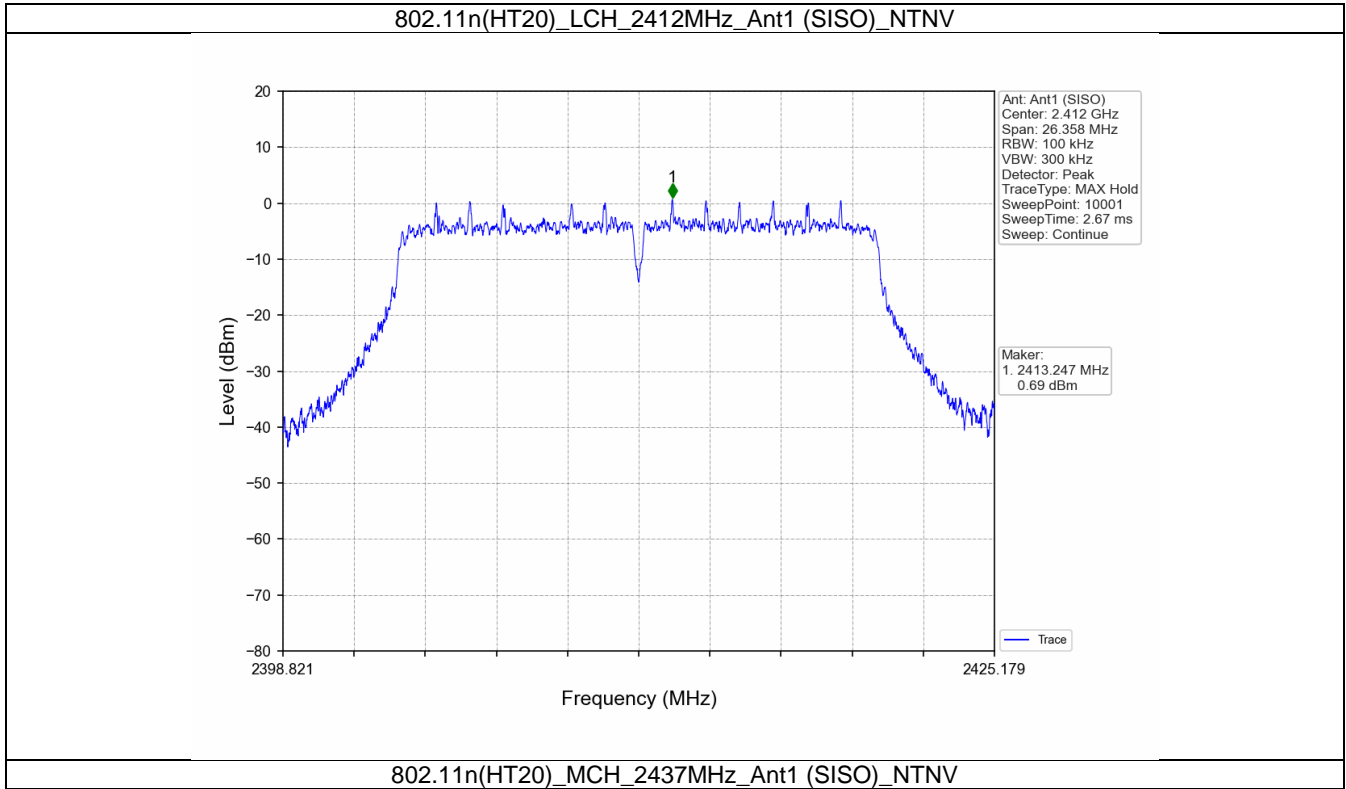
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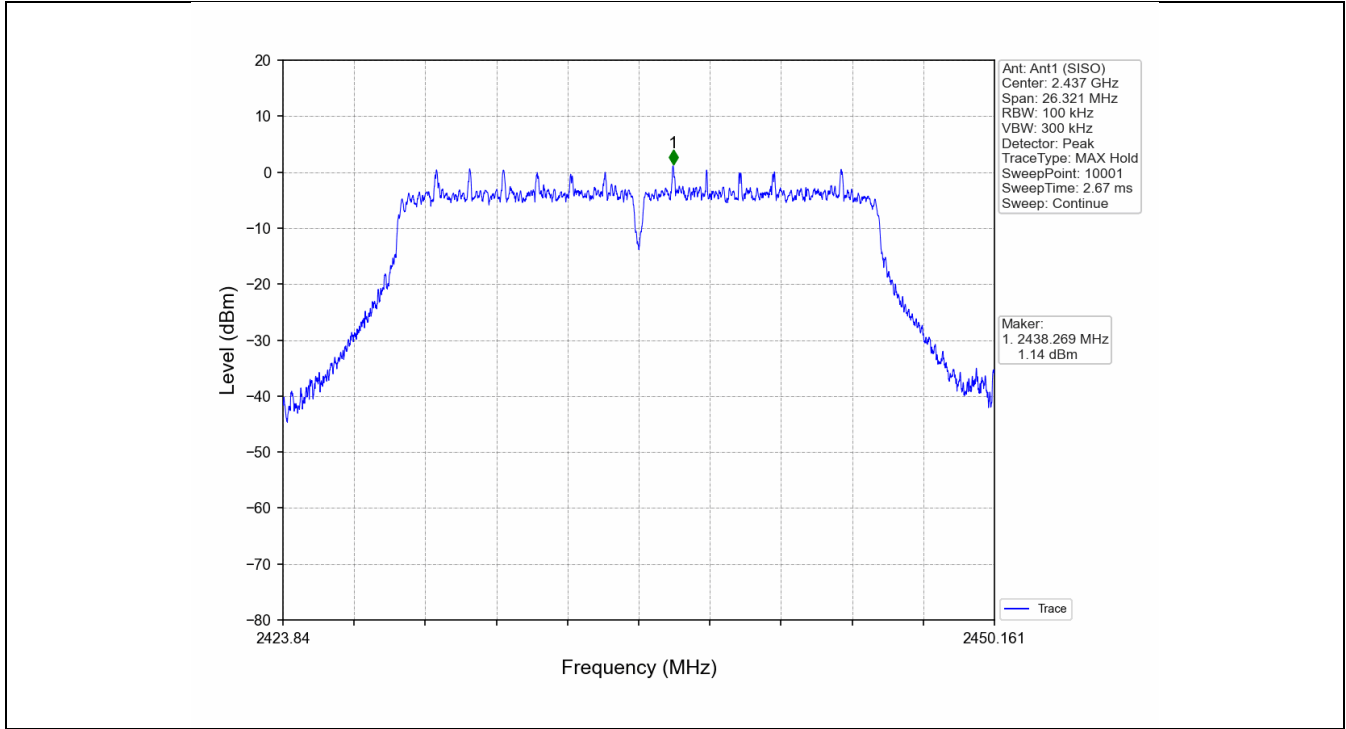


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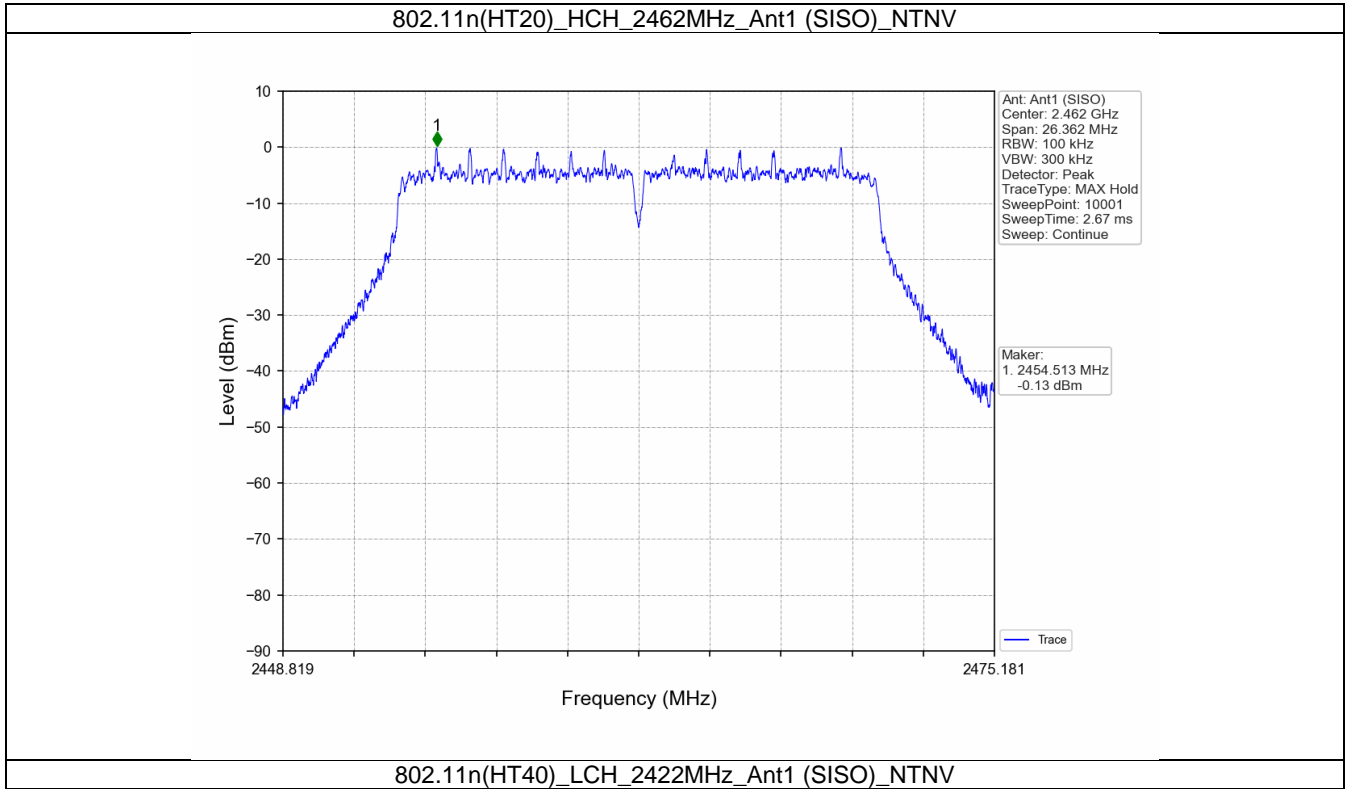


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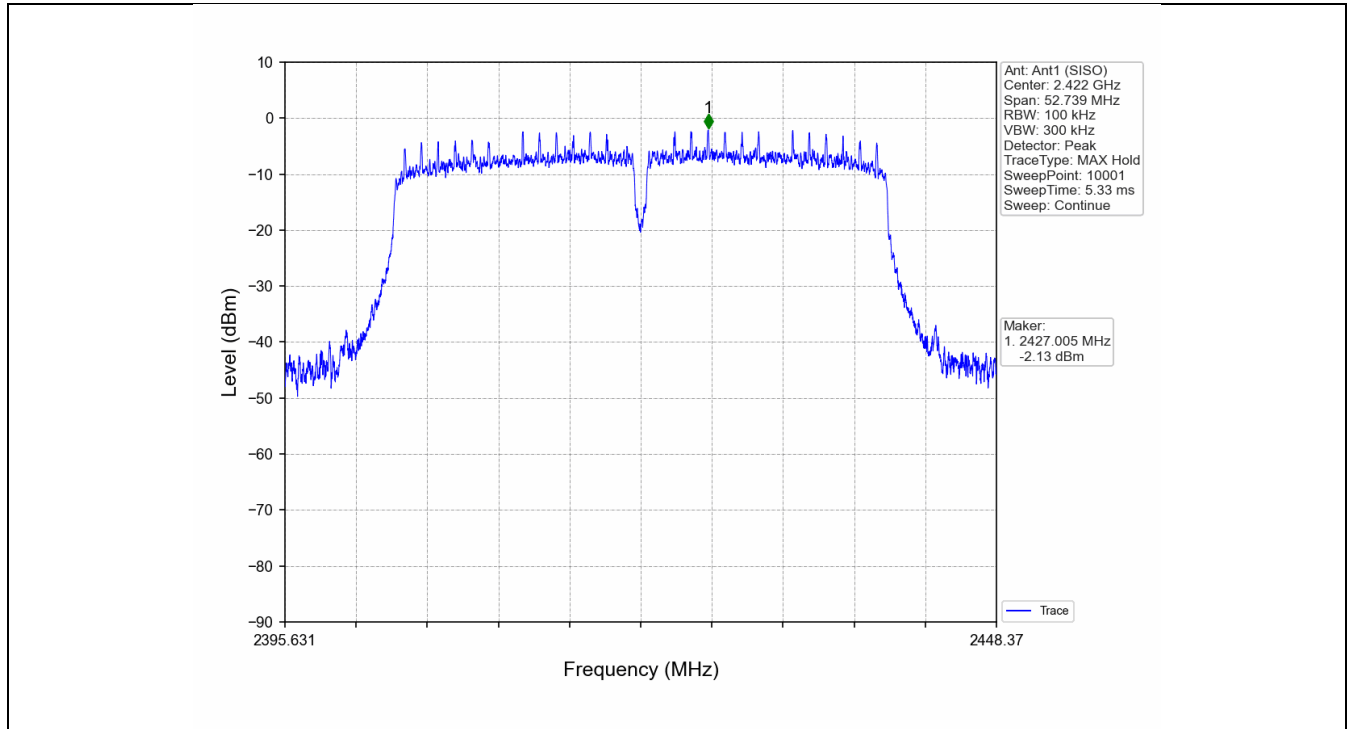
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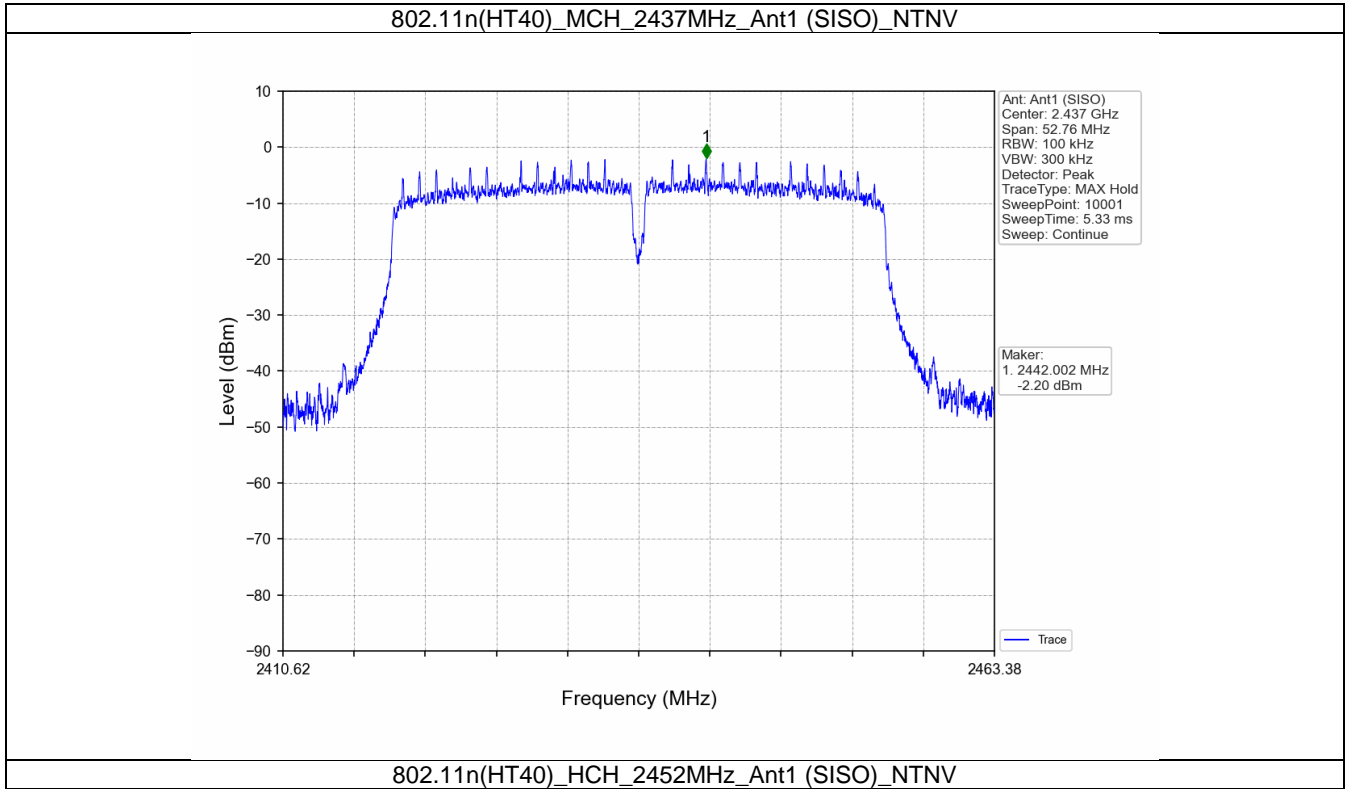
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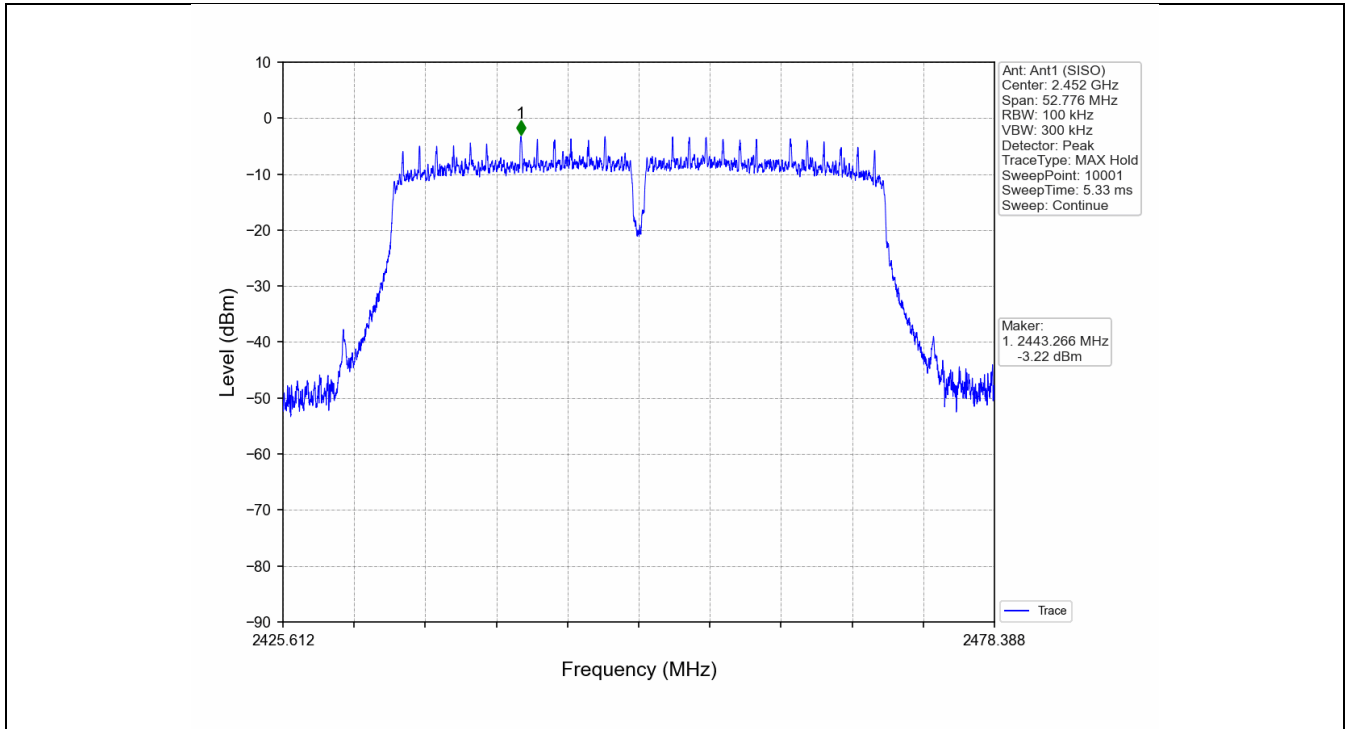
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5.2 CSE

5.2.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
NTNV	802.11b	SISO	2412	1	6.50	-13.50	Pass
			2437	1	6.50	-13.50	Pass
			2462	1	6.50	-13.50	Pass
	802.11g	SISO	2412	1	1.69	-18.31	Pass
			2437	1	1.69	-18.31	Pass
			2462	1	1.69	-18.31	Pass
	802.11n (HT20)	SISO	2412	1	1.14	-18.86	Pass
			2437	1	1.14	-18.86	Pass
			2462	1	1.14	-18.86	Pass
	802.11n (HT40)	SISO	2422	1	-2.13	-22.13	Pass
			2437	1	-2.13	-22.13	Pass
			2452	1	-2.13	-22.13	Pass

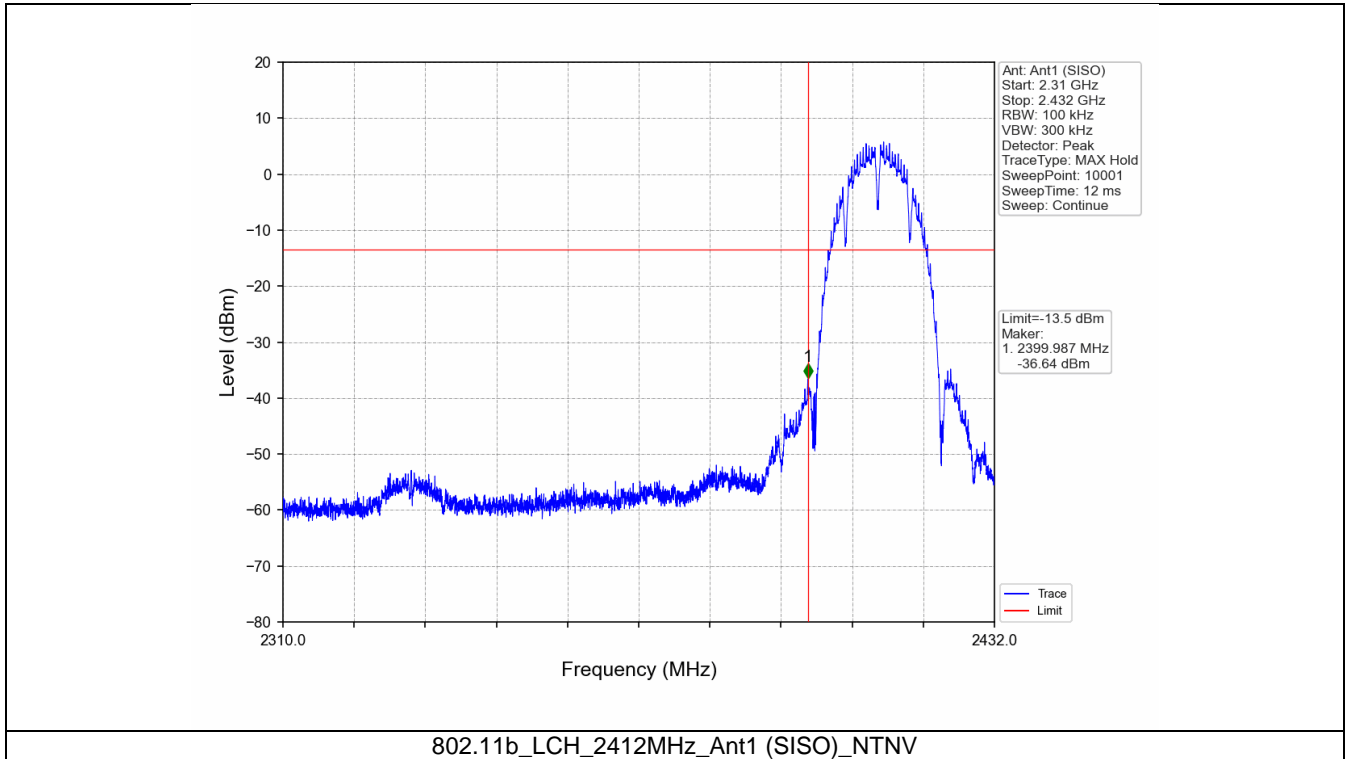
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

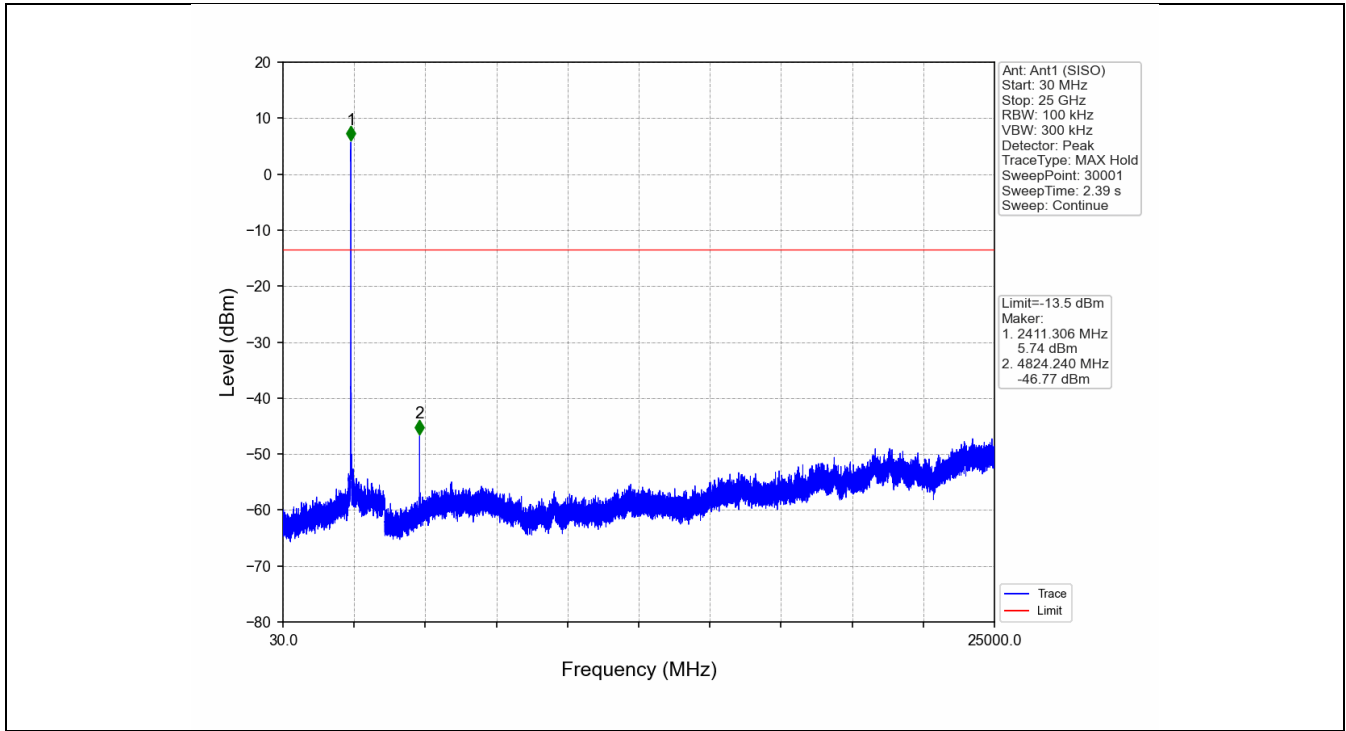


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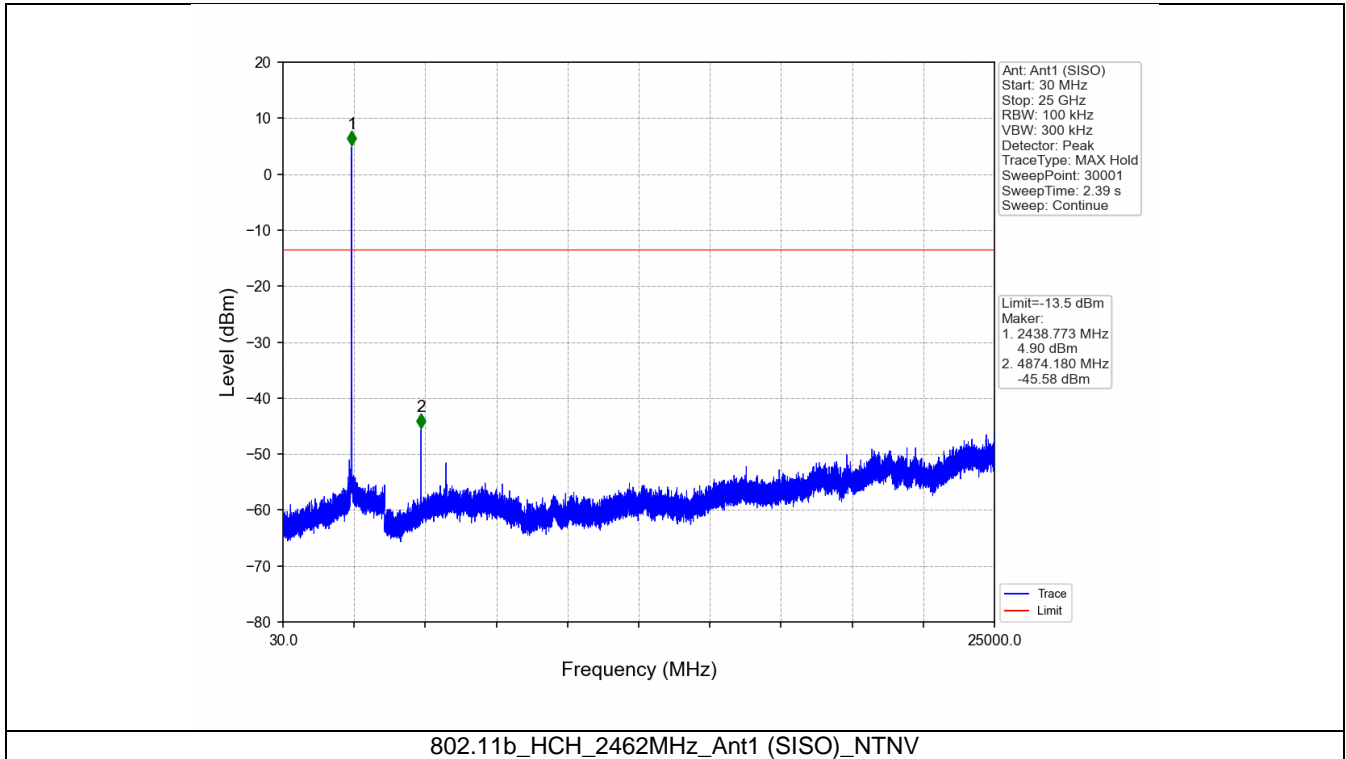
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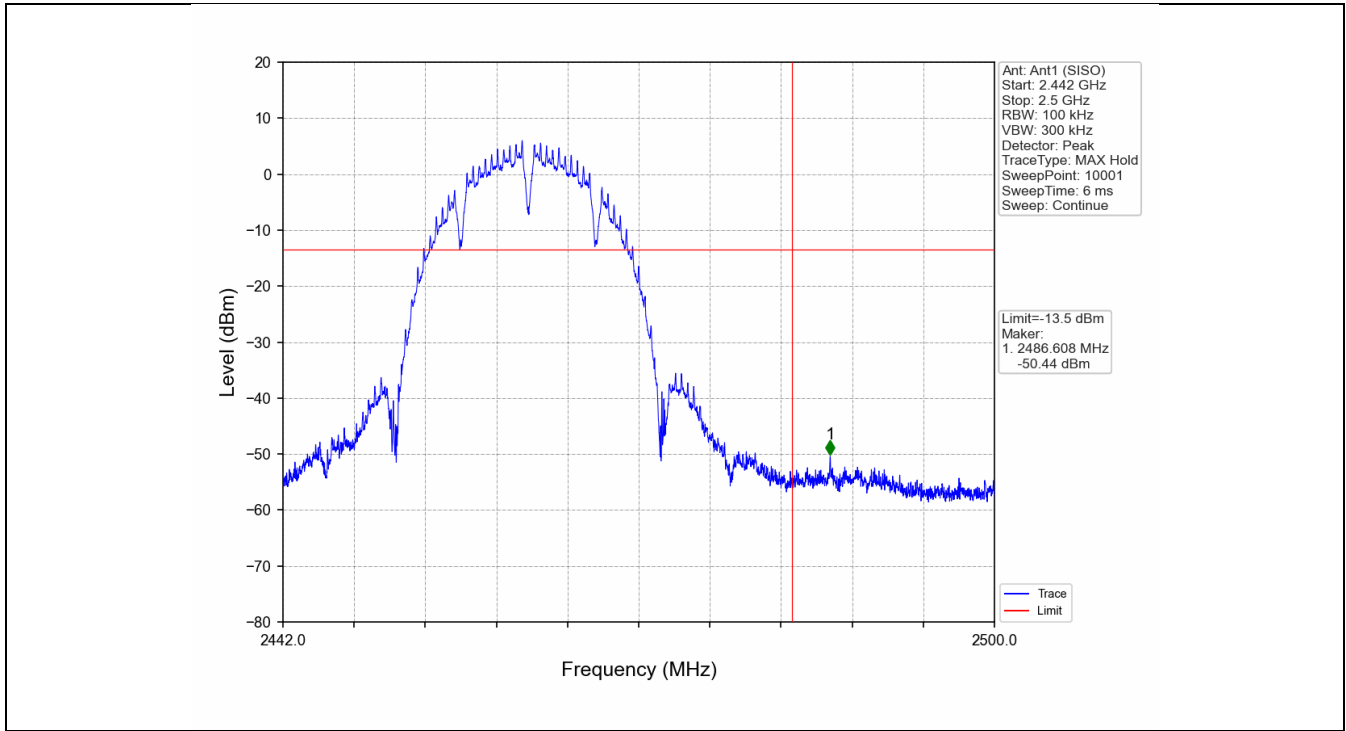


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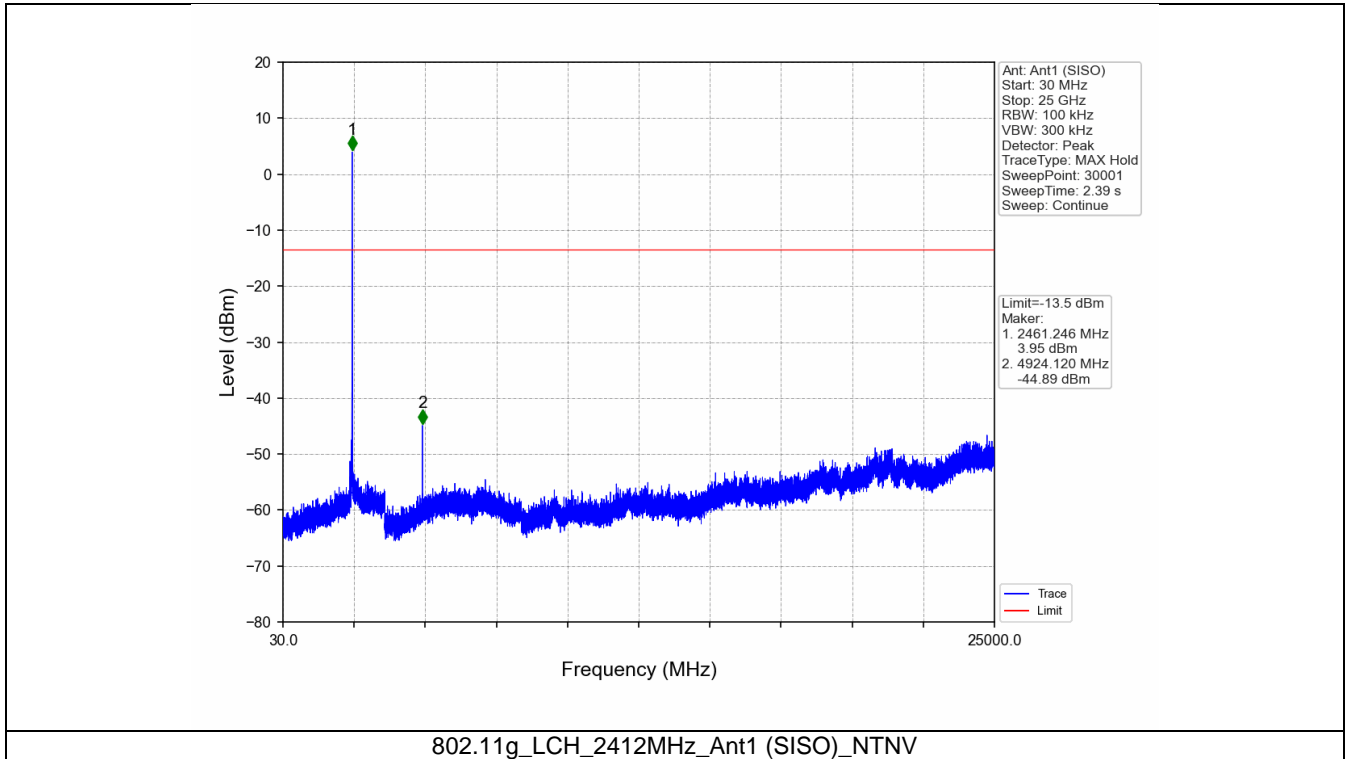
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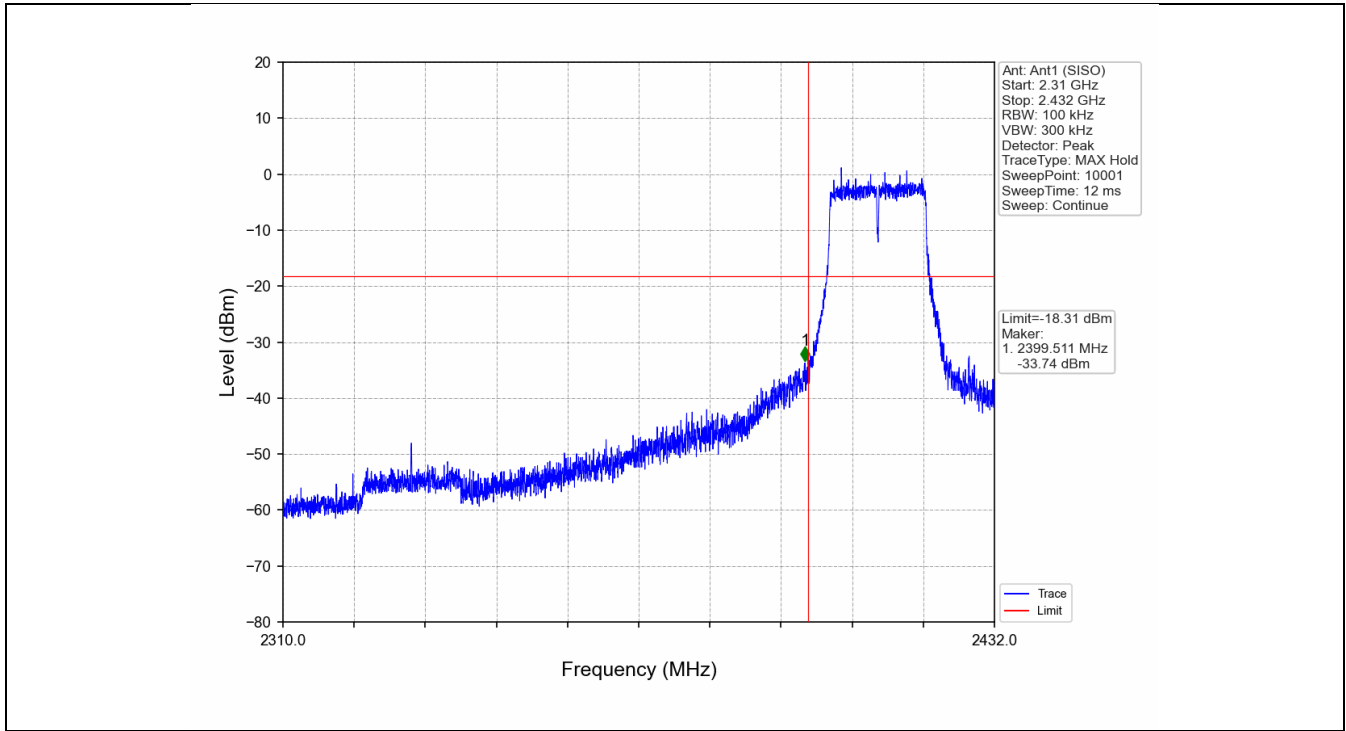
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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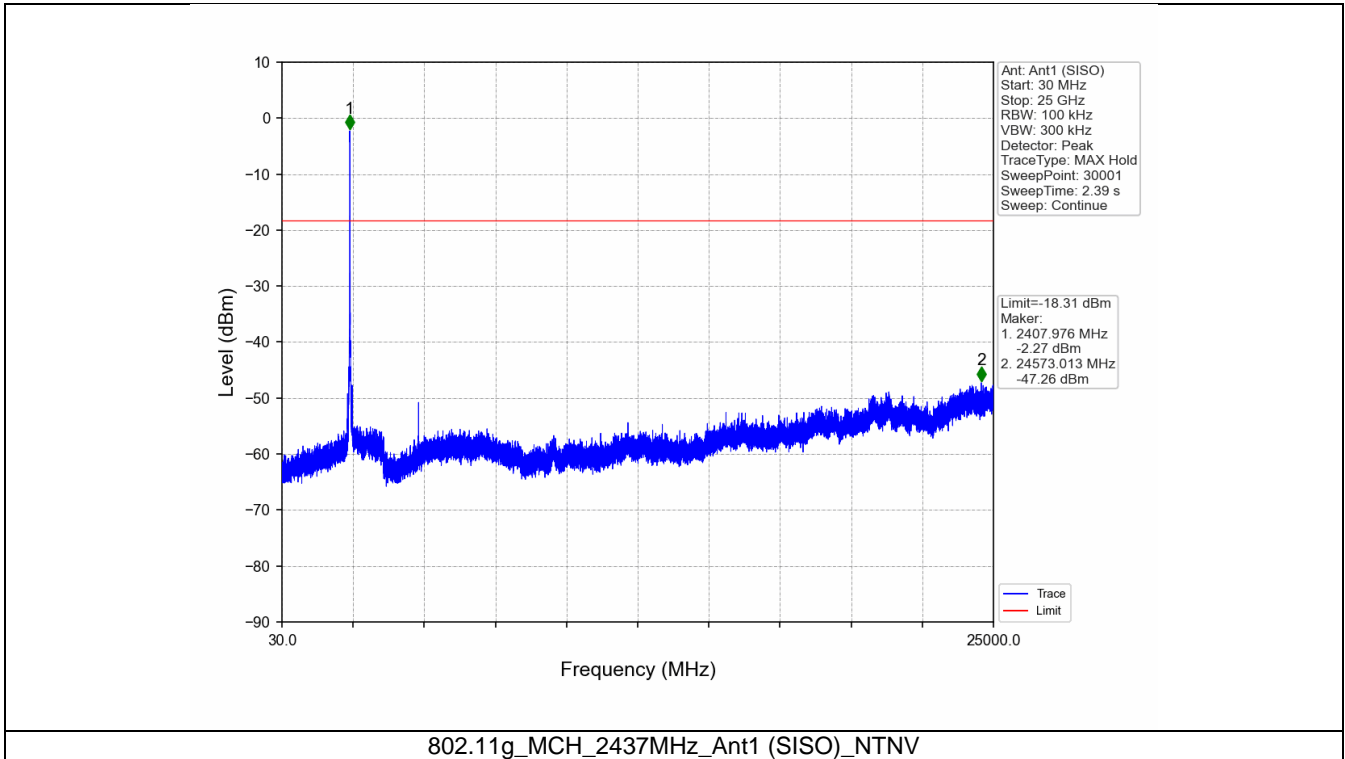


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

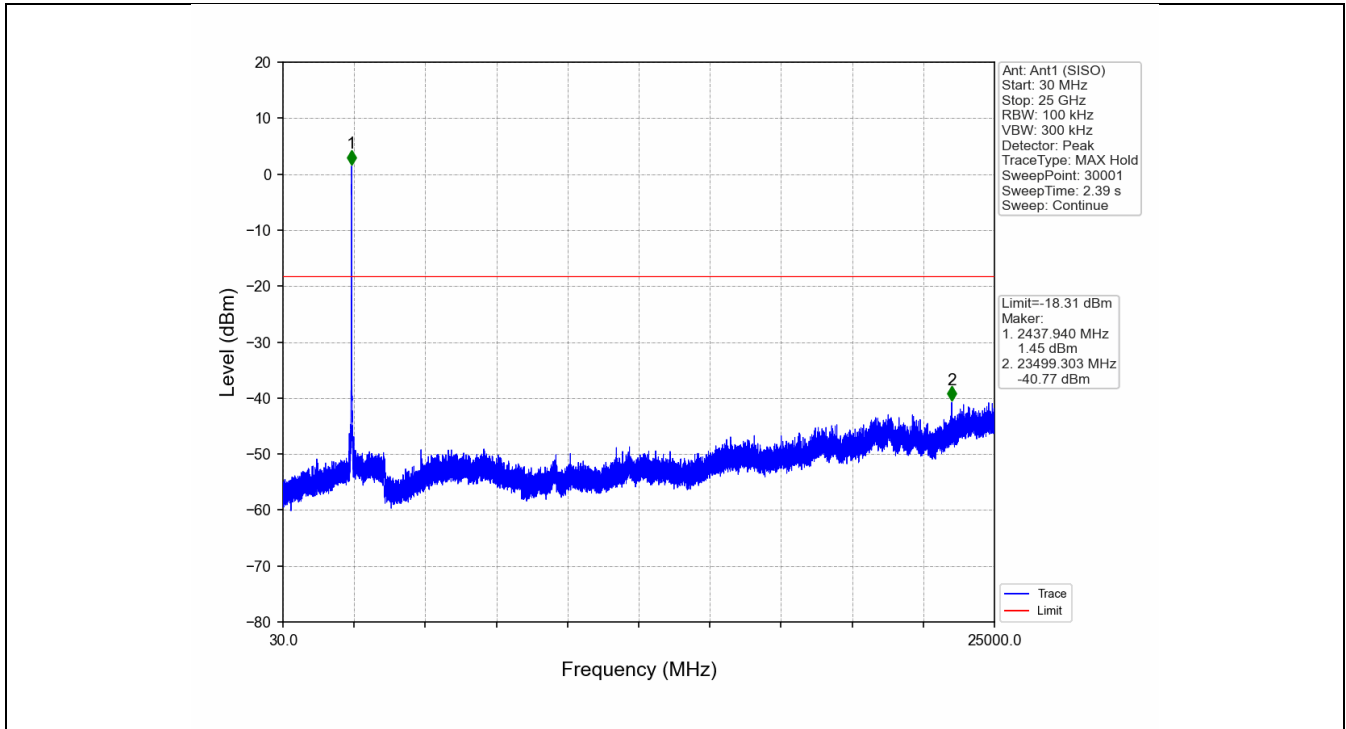


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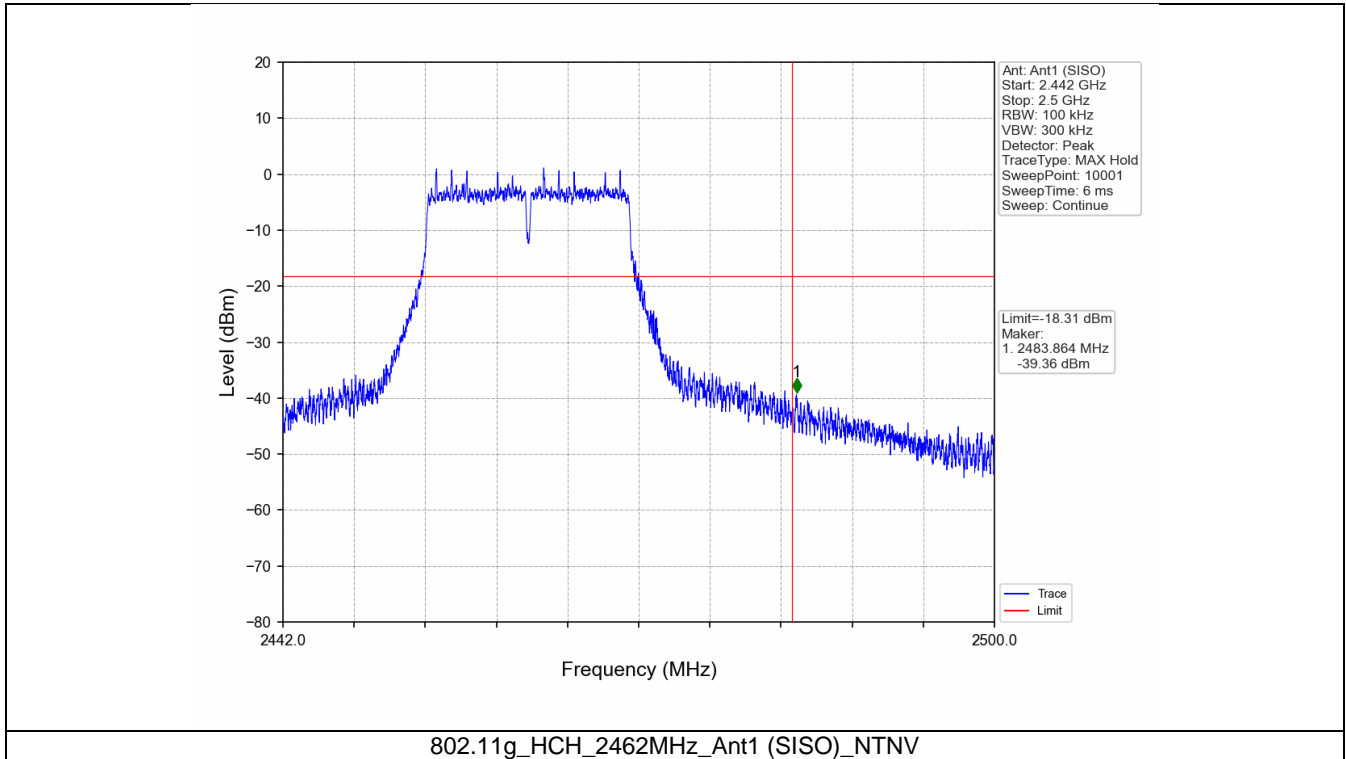


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



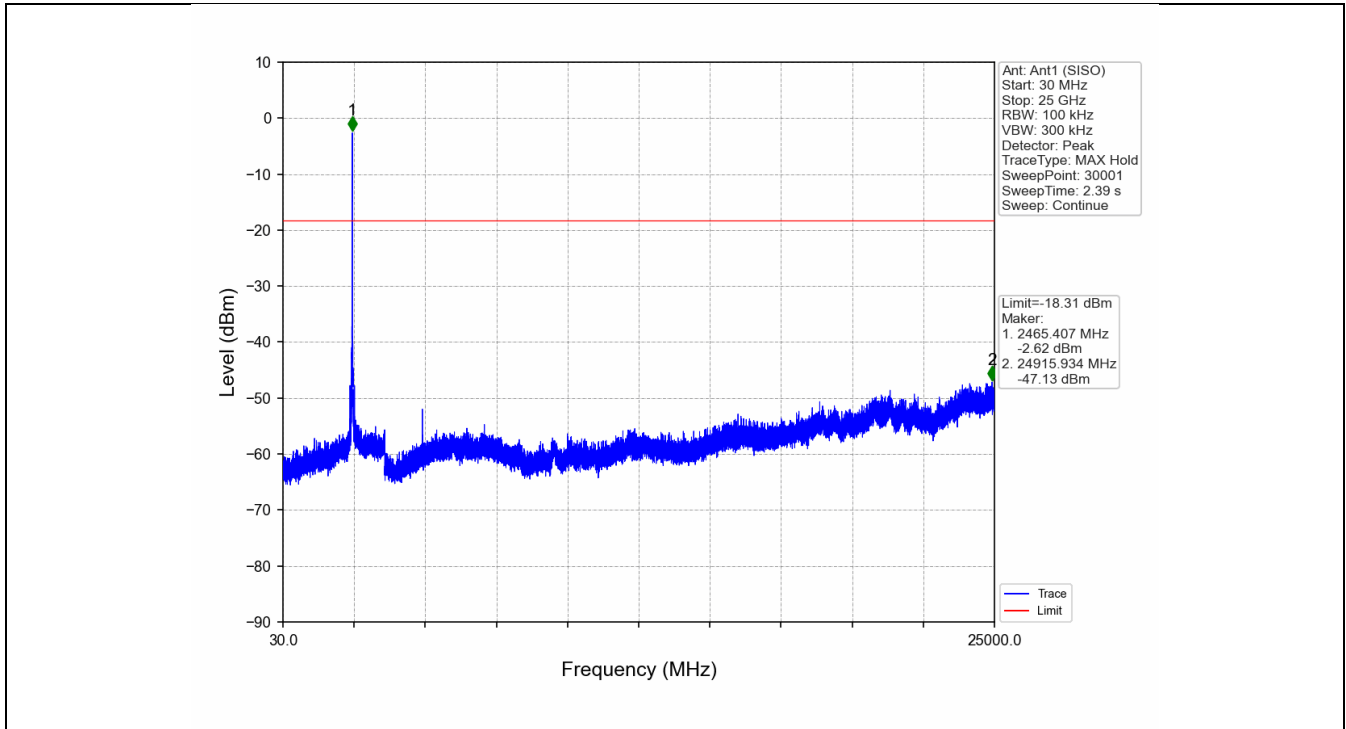
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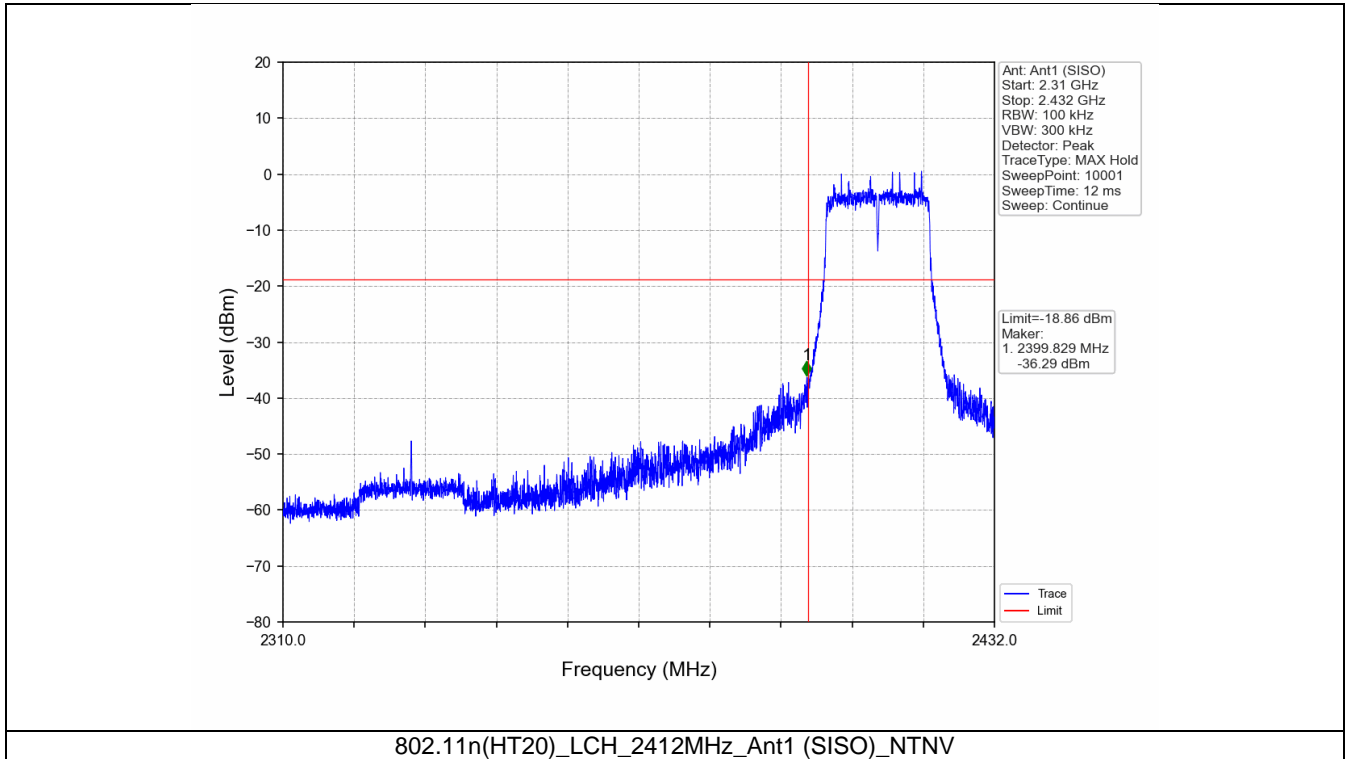


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



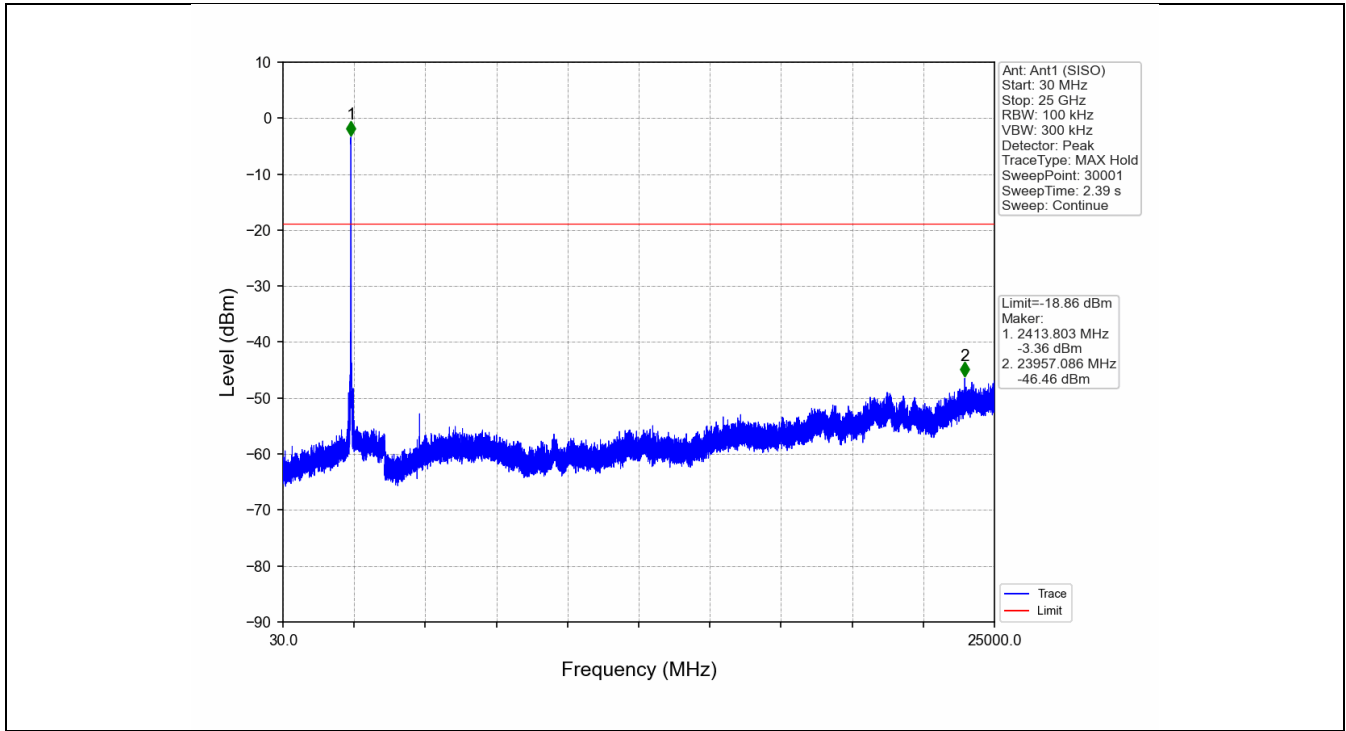
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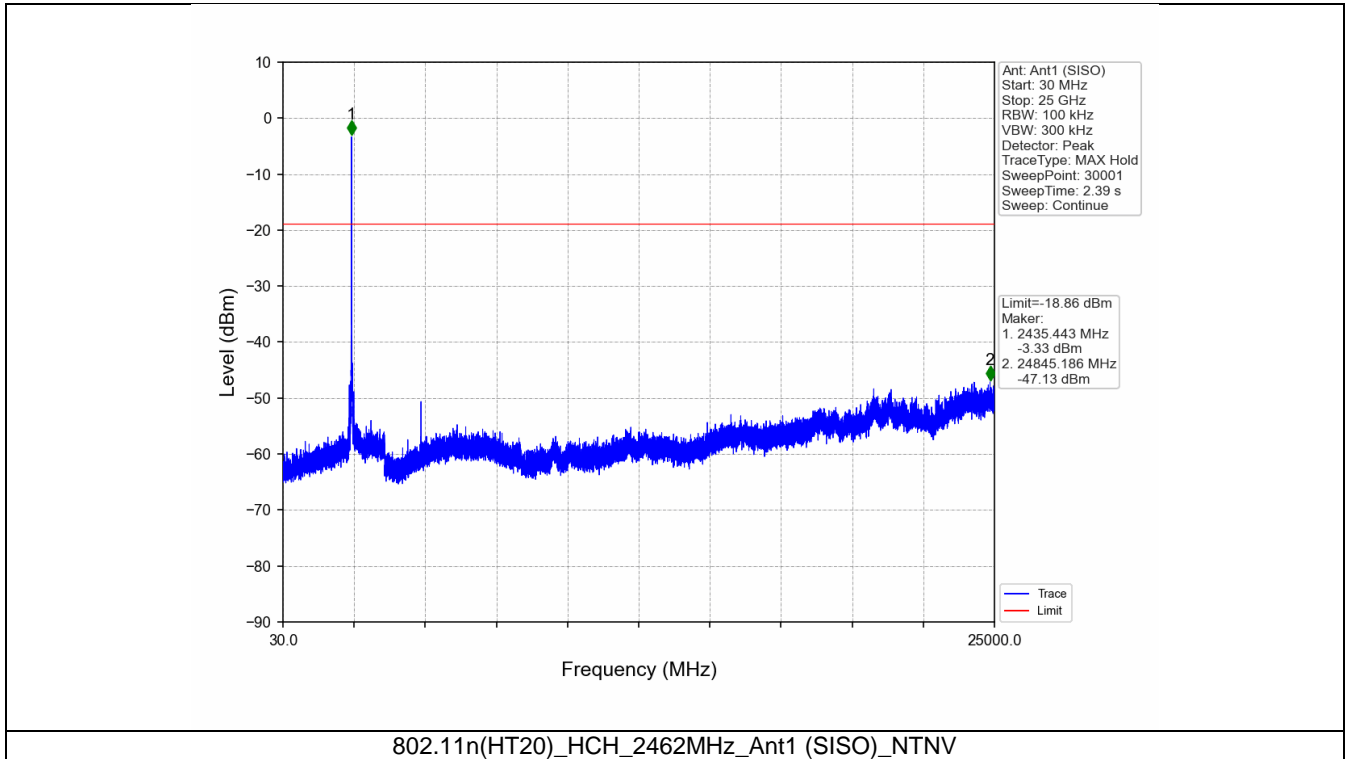


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



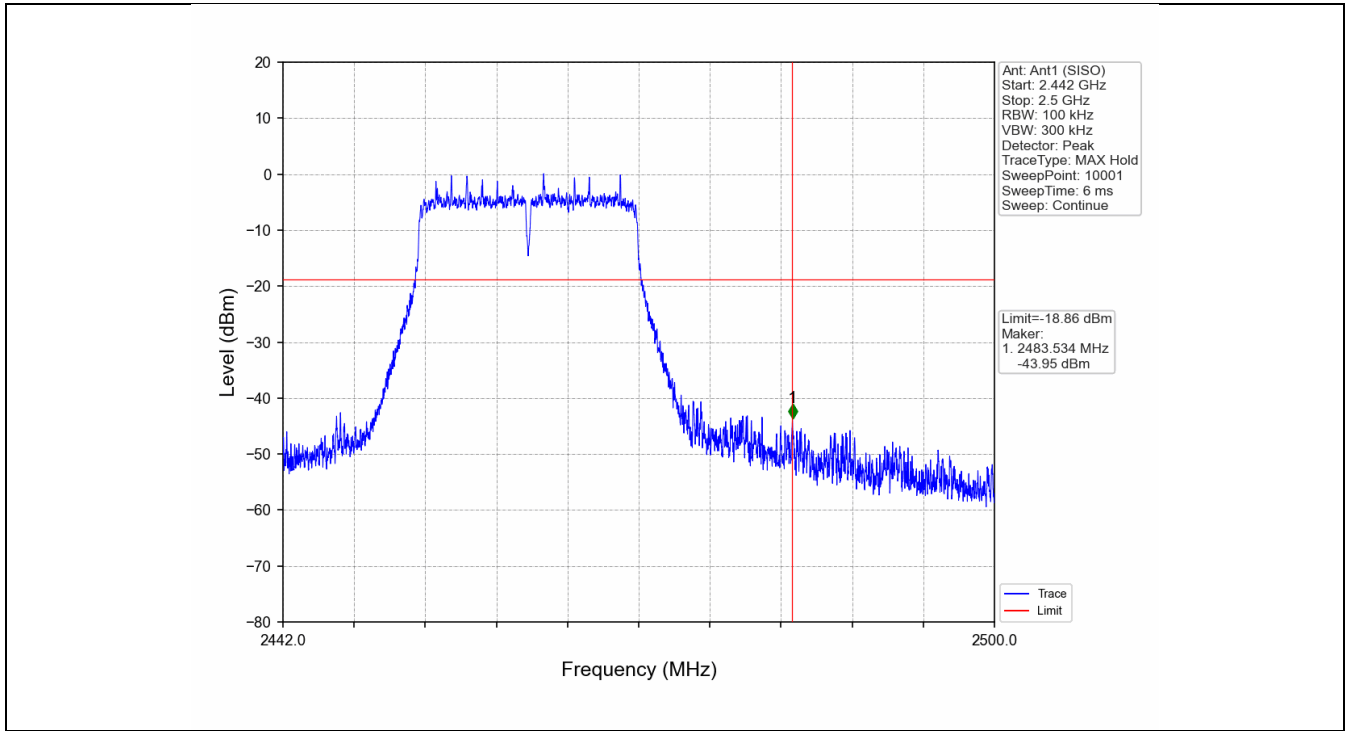
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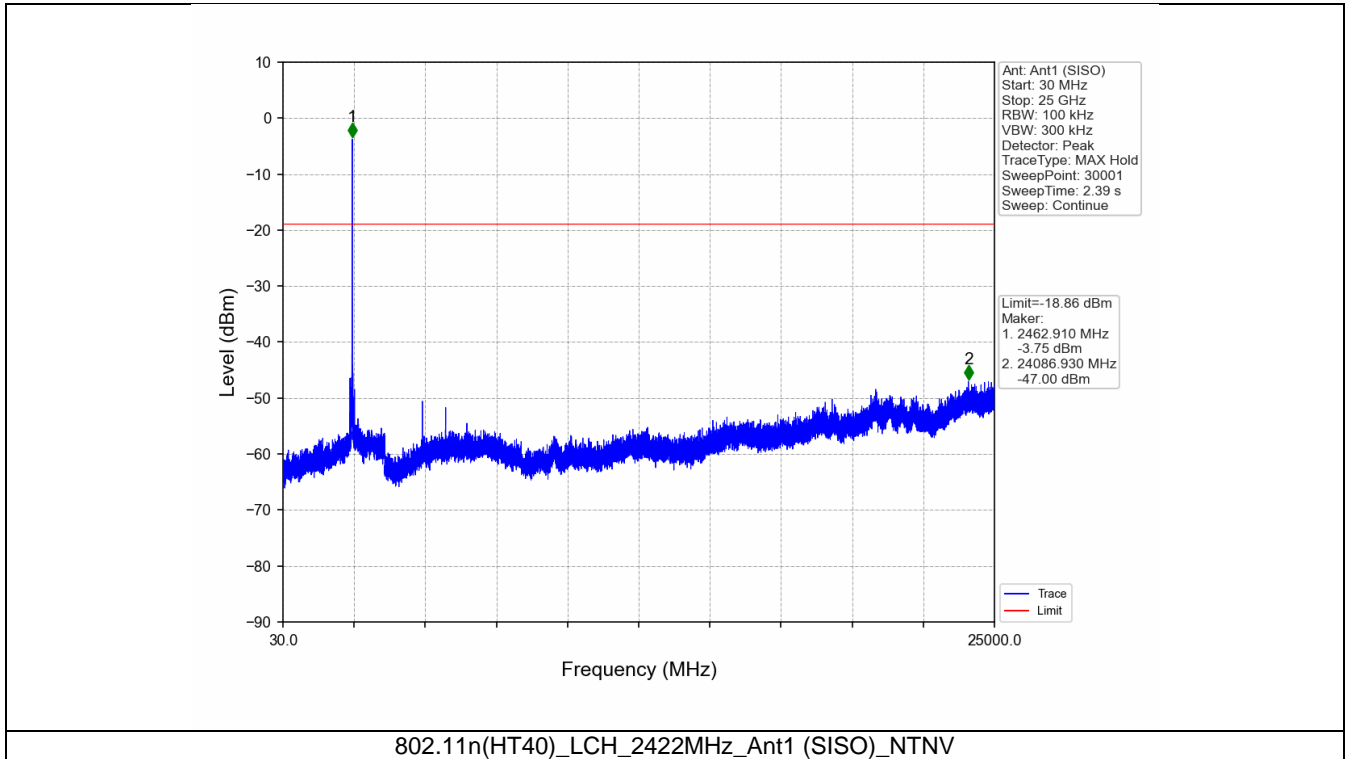
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

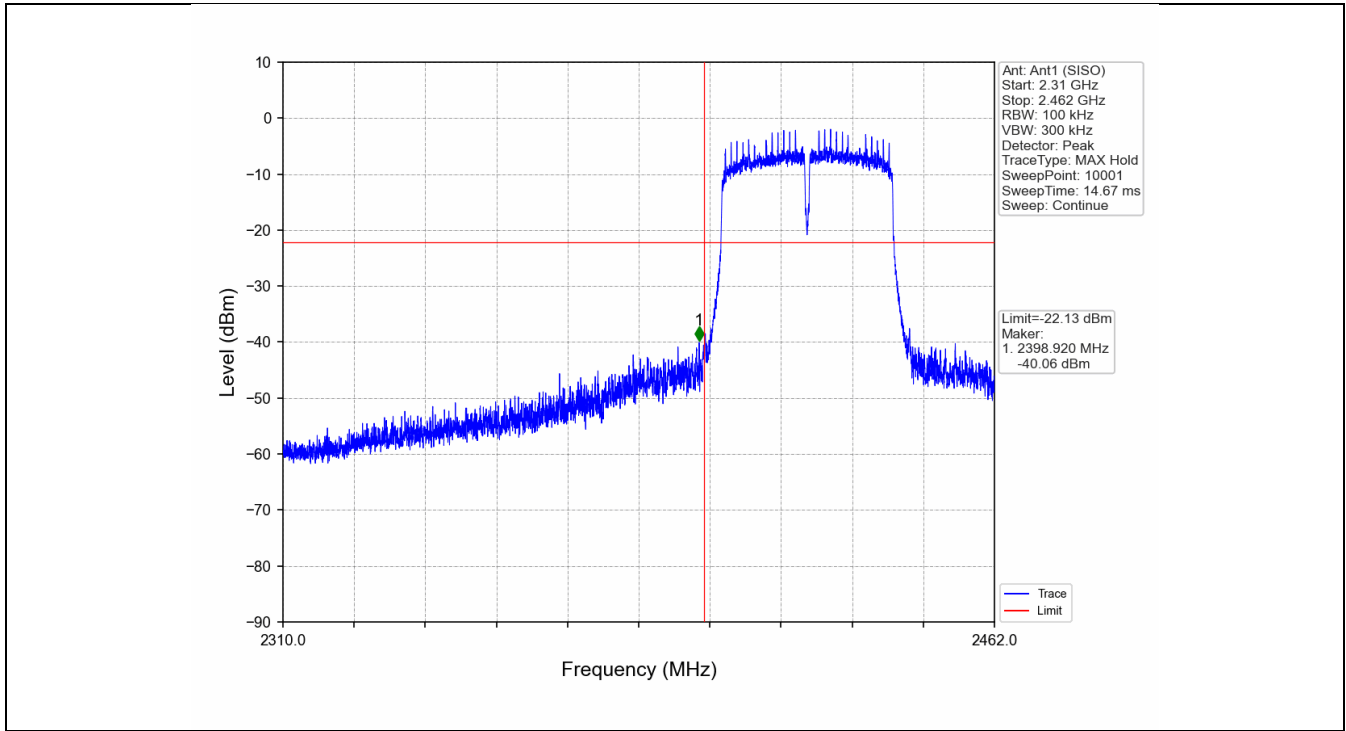


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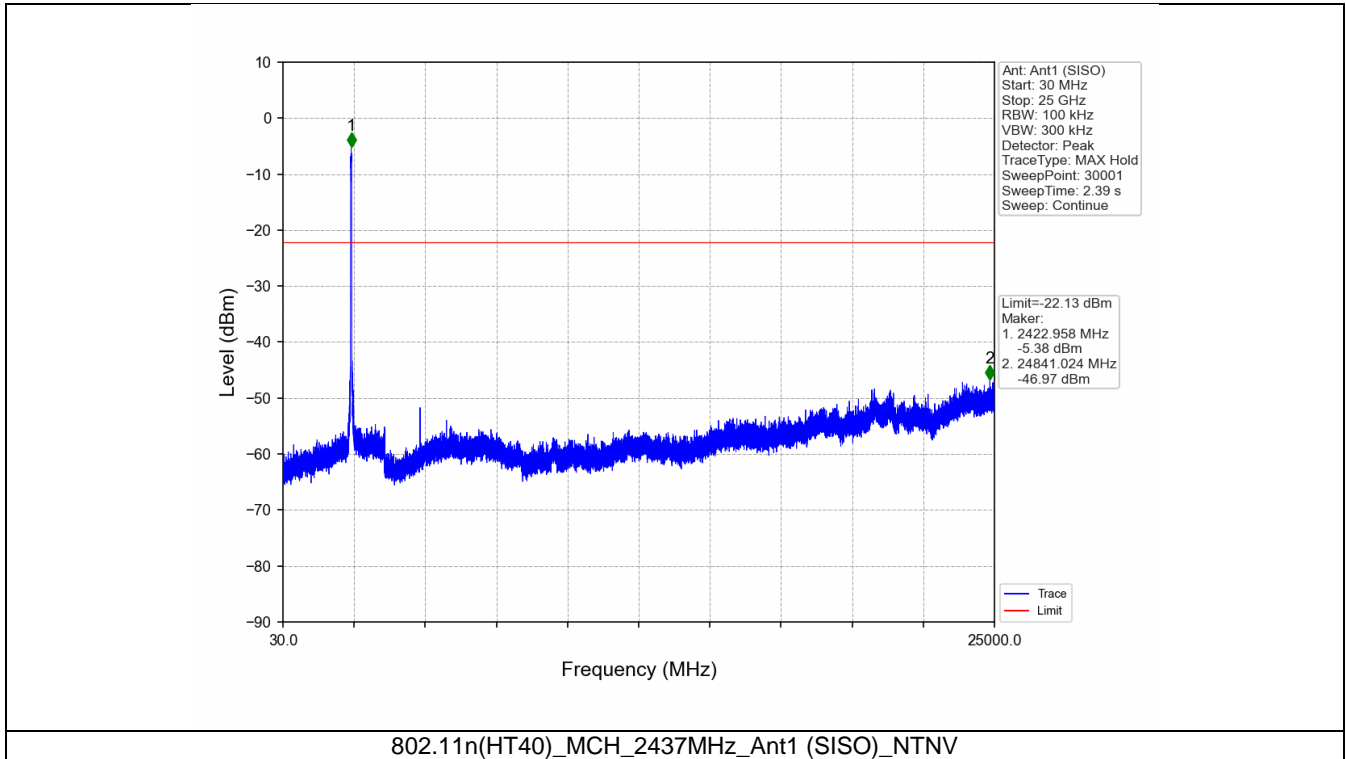


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

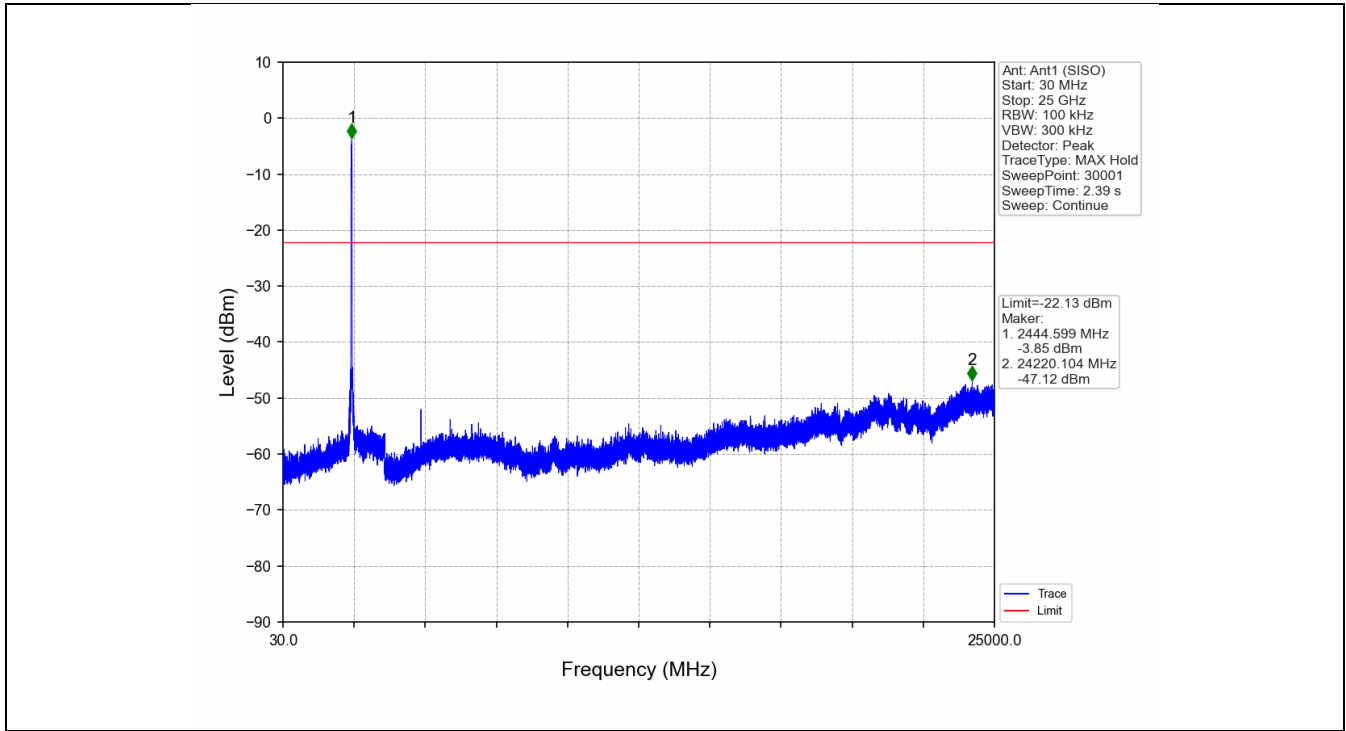


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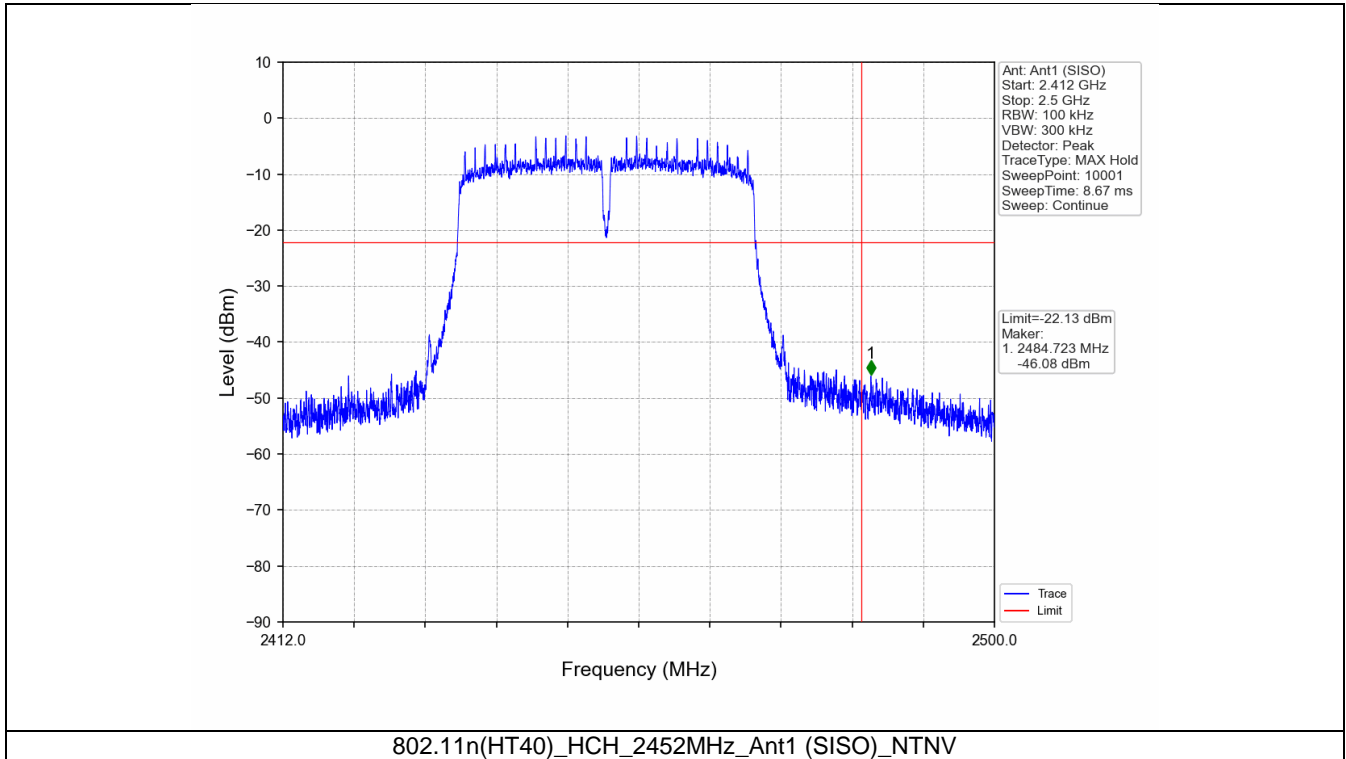
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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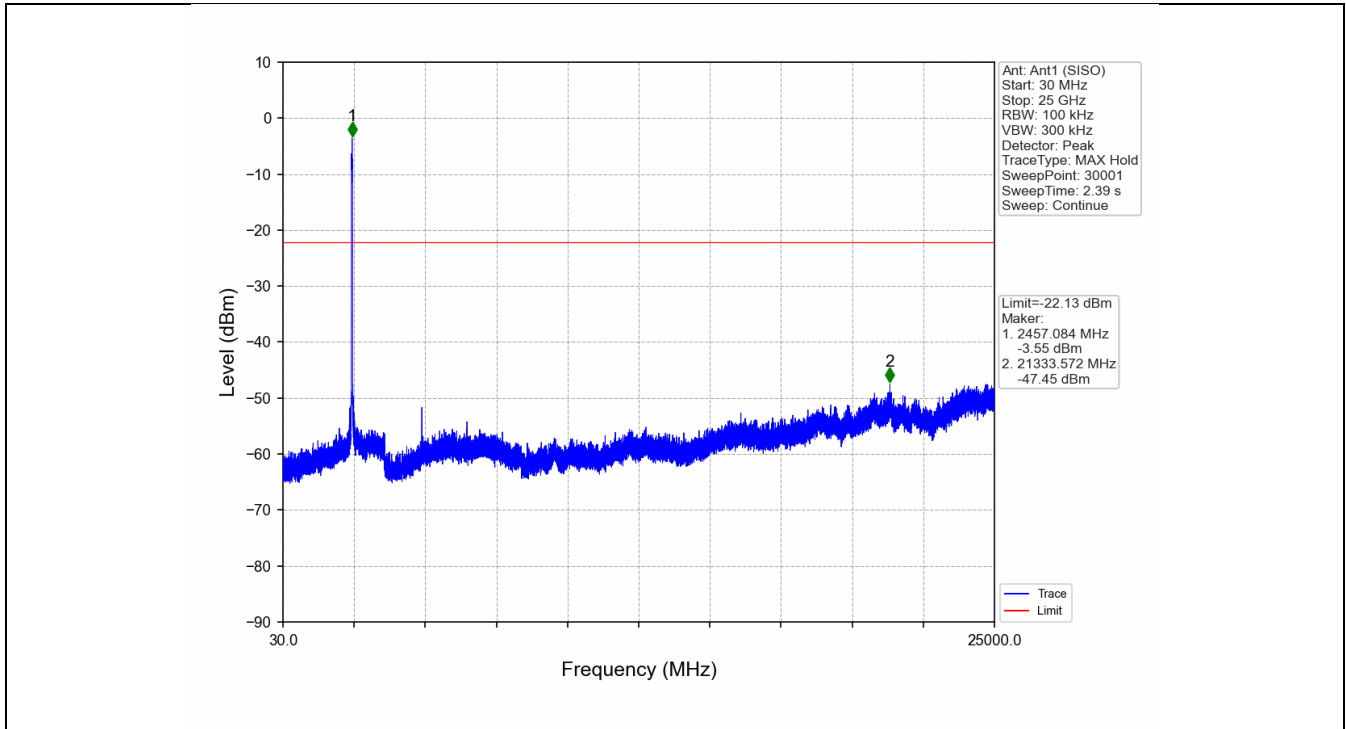


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