

Appendix for A SHEM210600582601

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	12.42	12.58	98.73	0.06	0.87
		2437	/	/	12.42	12.59	98.65	0.06	0.95
		2462	/	/	12.42	12.55	98.96	0.05	0.48
802.11g	SISO	2412	/	/	2.06	2.23	92.35	0.35	5.09
		2437	/	/	2.06	2.23	92.39	0.34	5.39
		2462	/	/	2.06	2.23	92.39	0.34	4.98
802.11n (HT20)	SISO	2412	/	/	1.92	2.09	91.78	0.37	5.54
		2437	/	/	1.92	2.09	91.87	0.37	5.90
		2462	/	/	1.92	2.09	91.73	0.37	6.35

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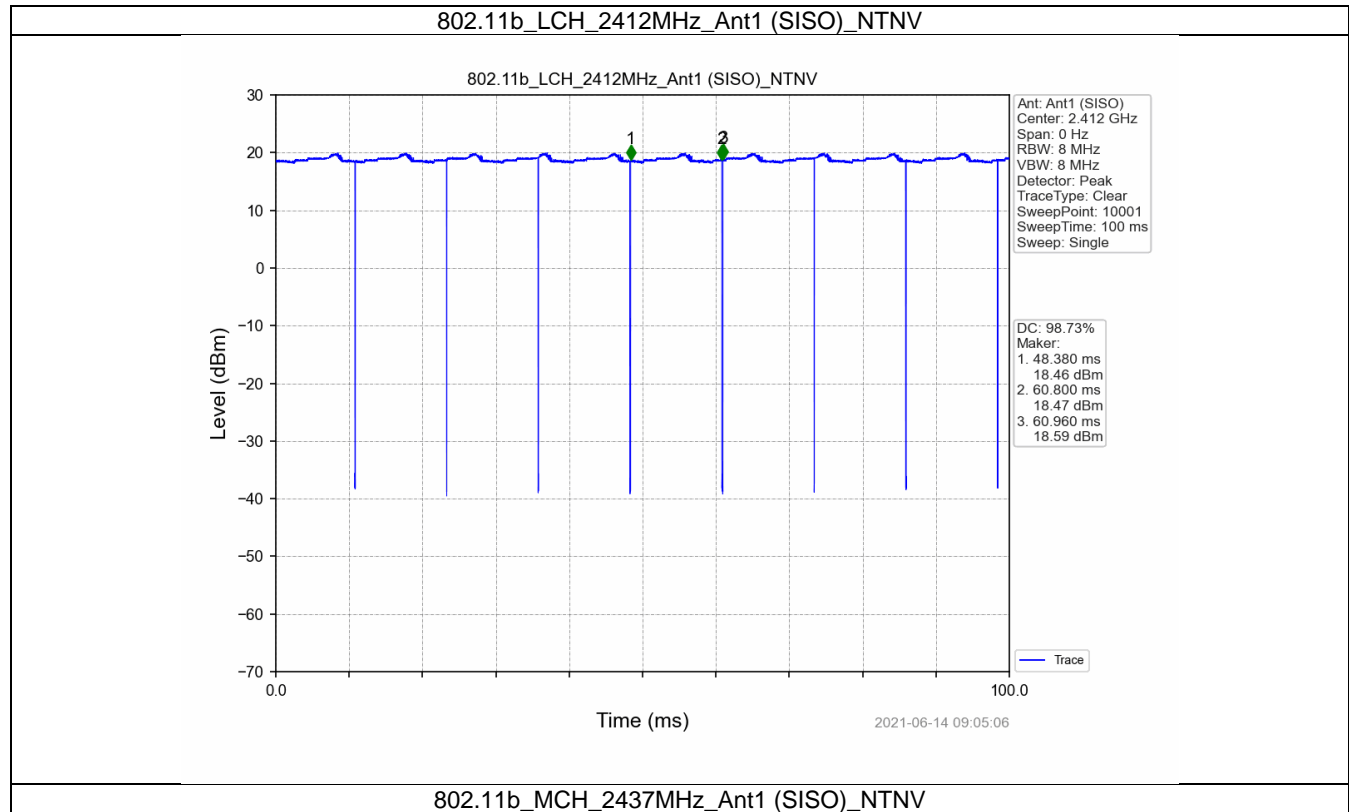
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1.1.2 Test Graph



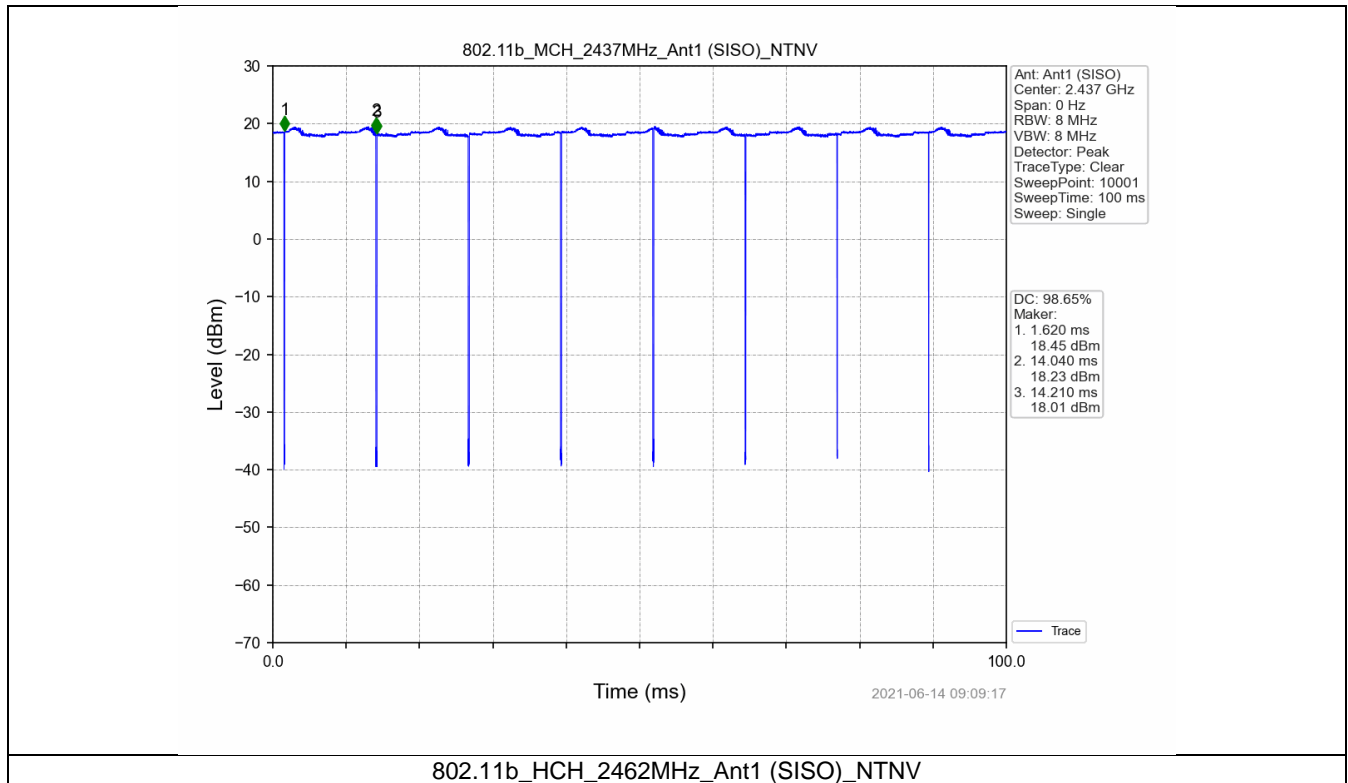
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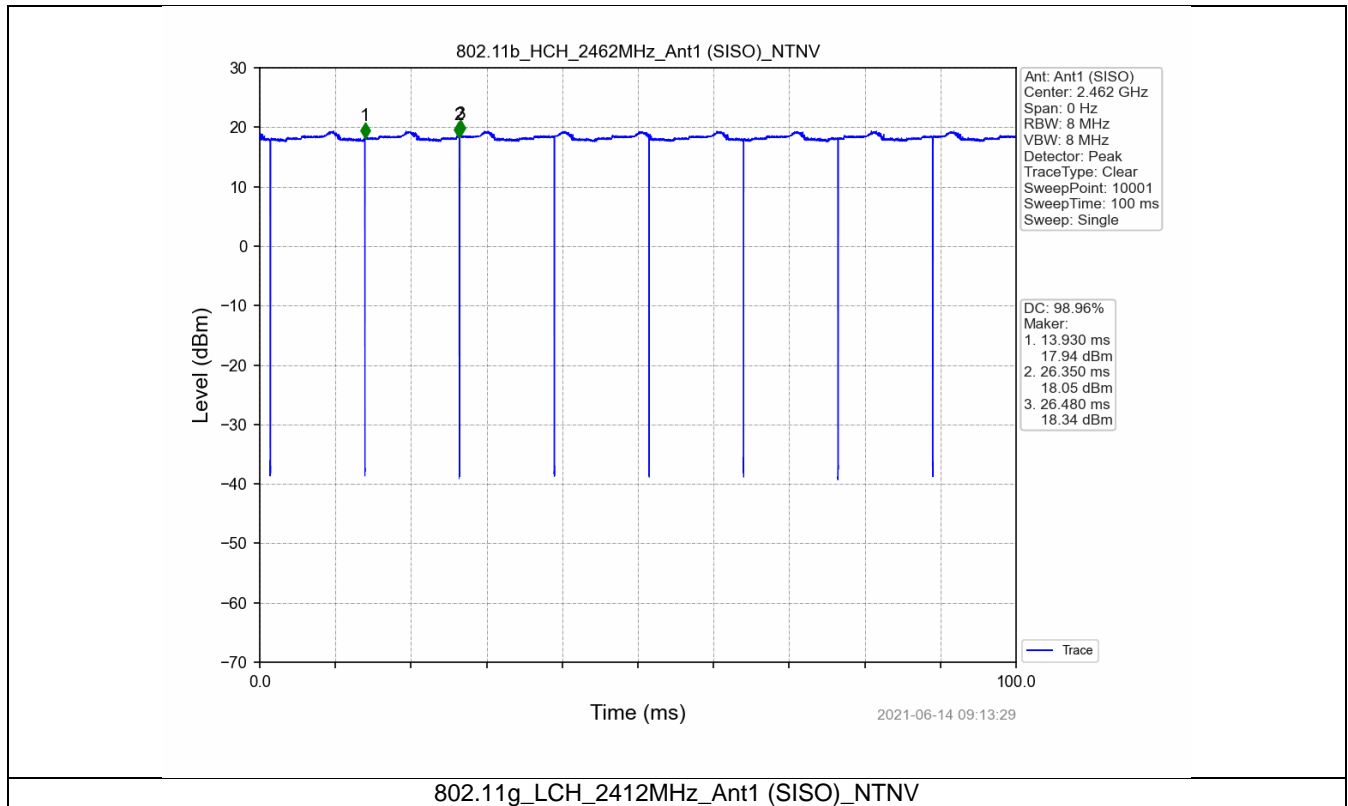
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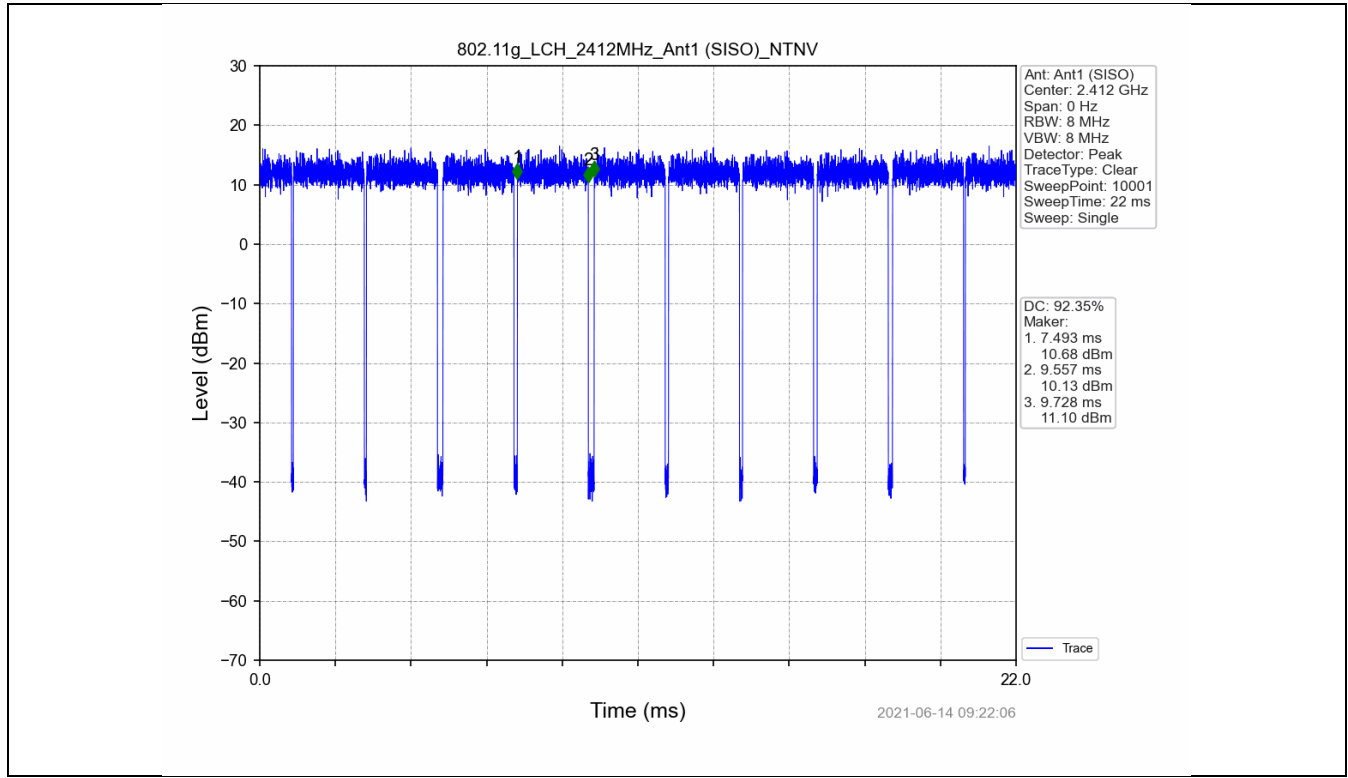
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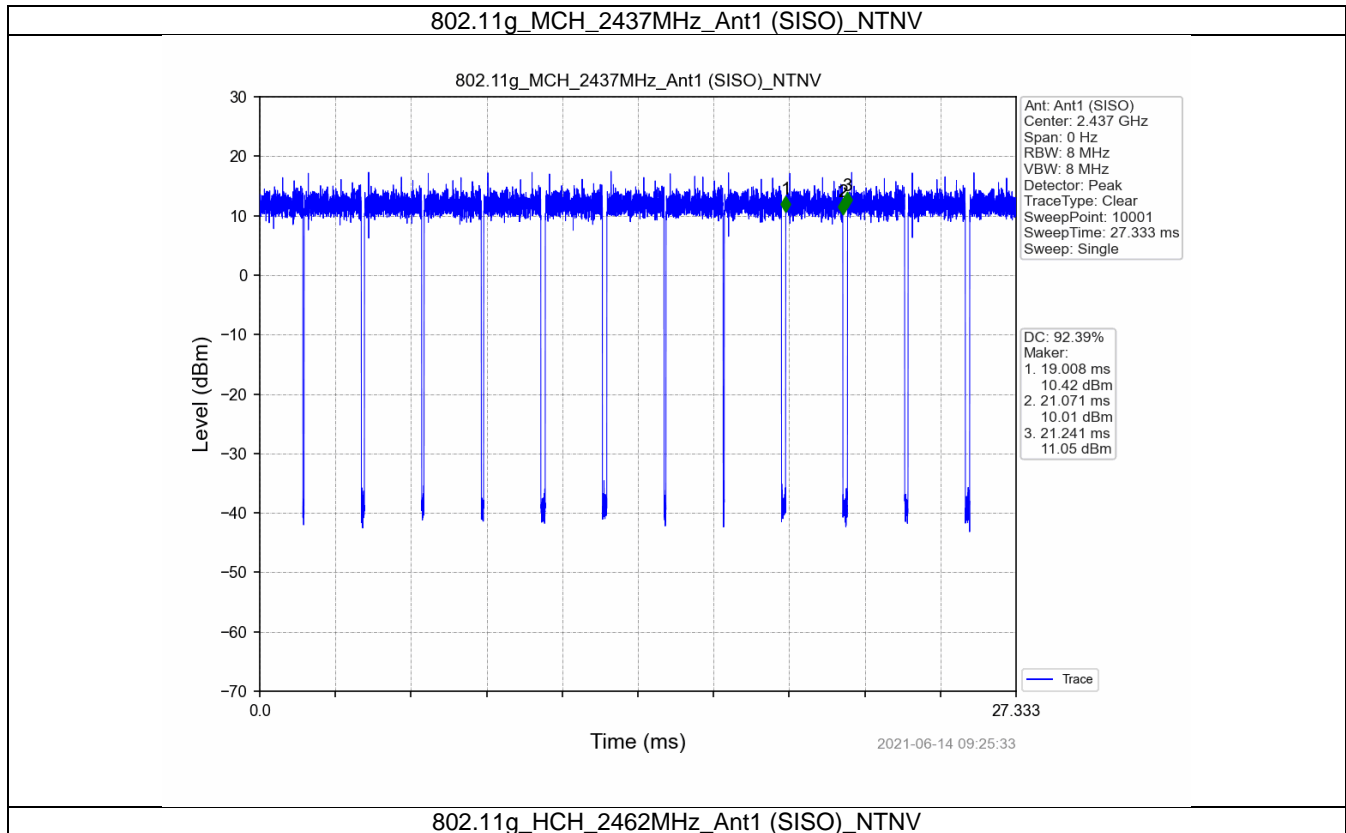
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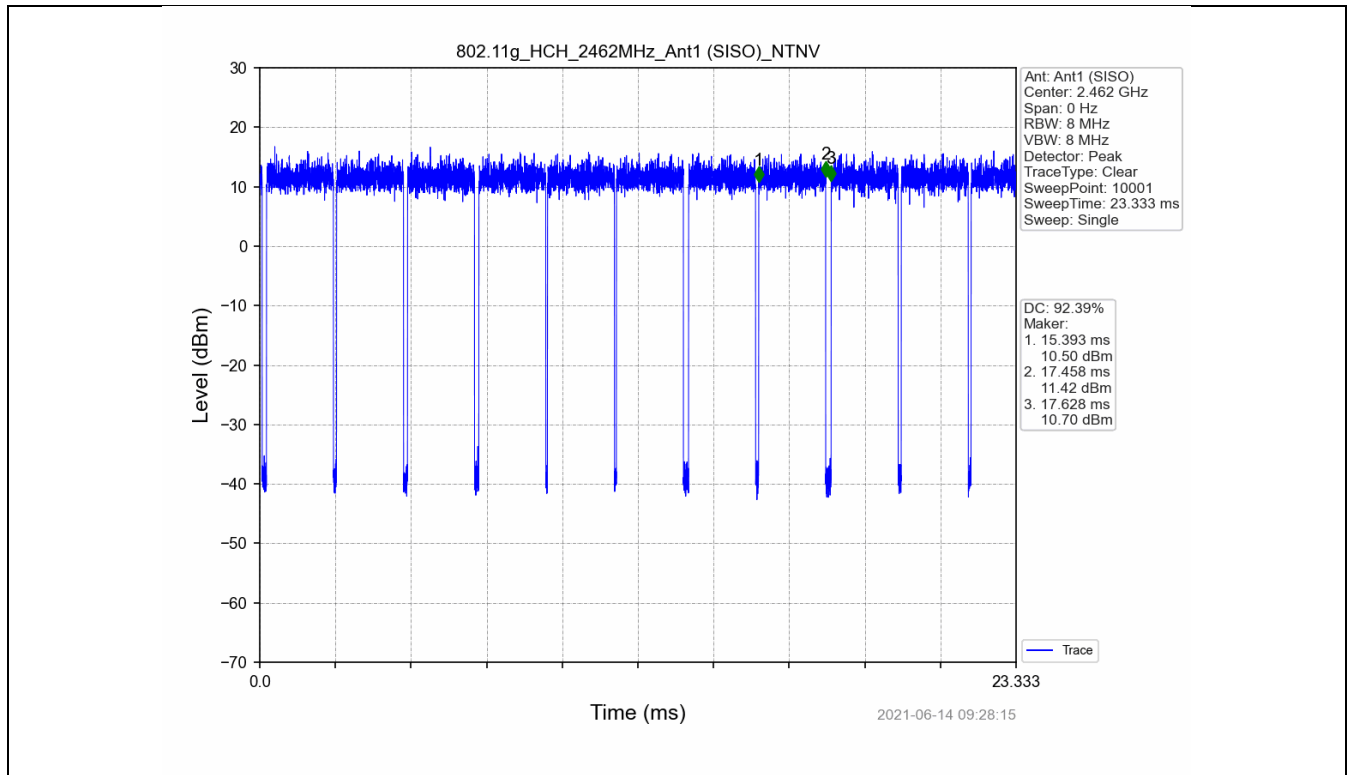
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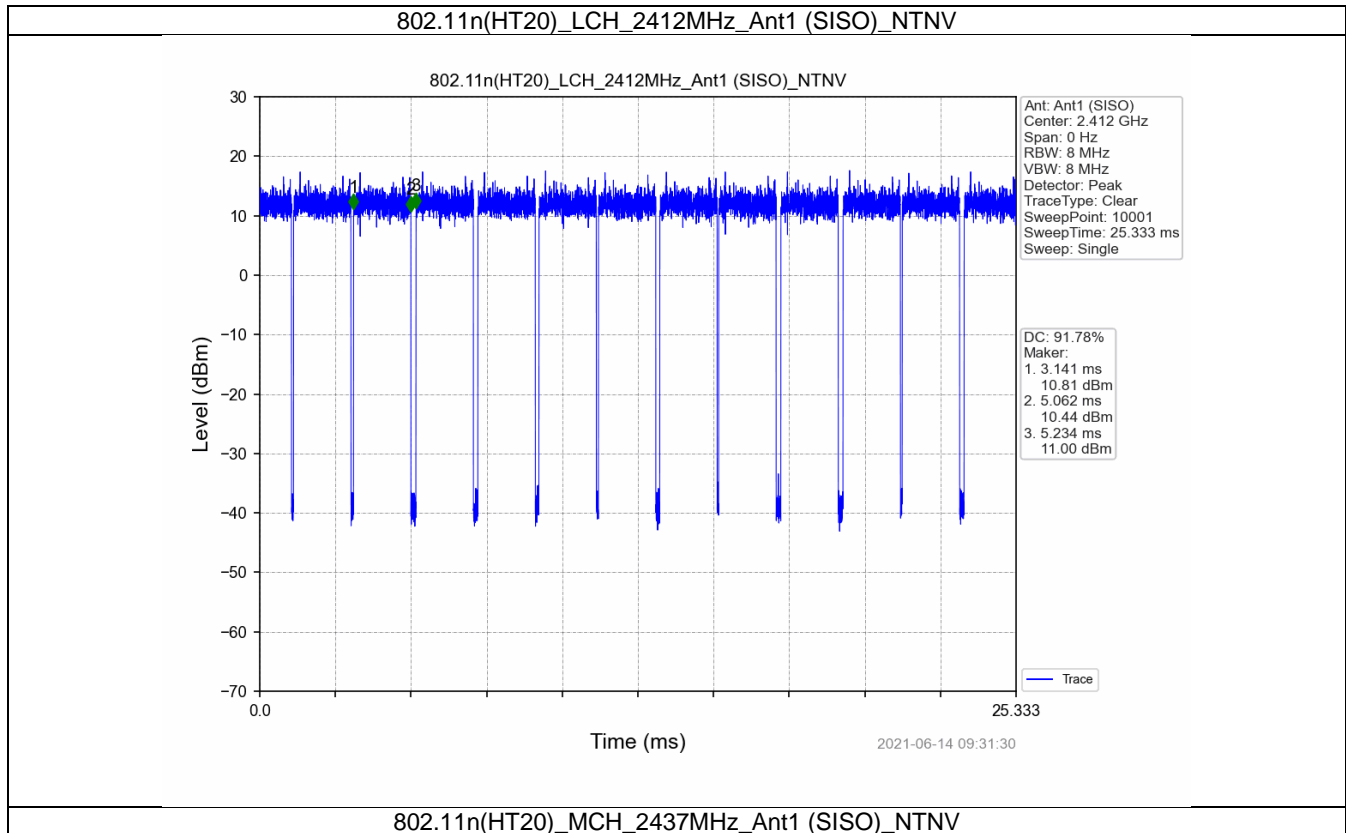
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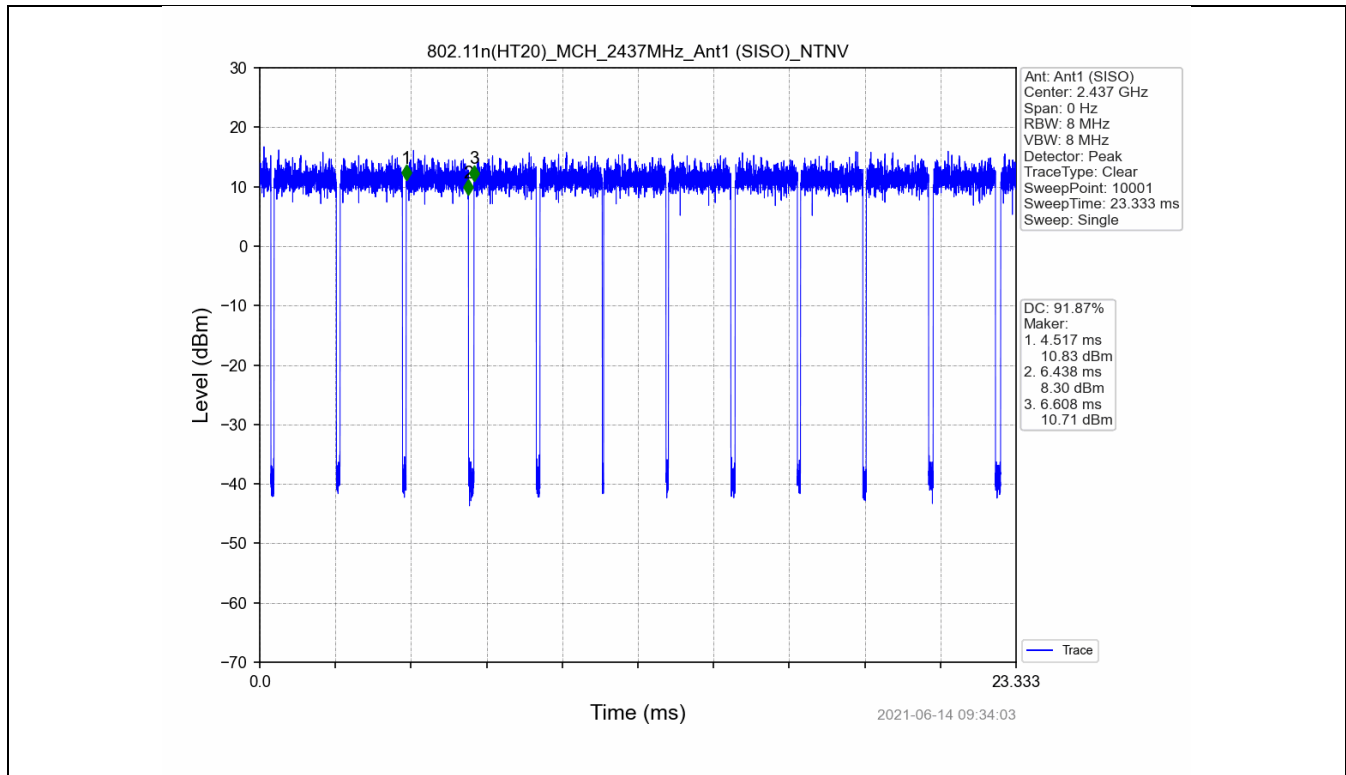
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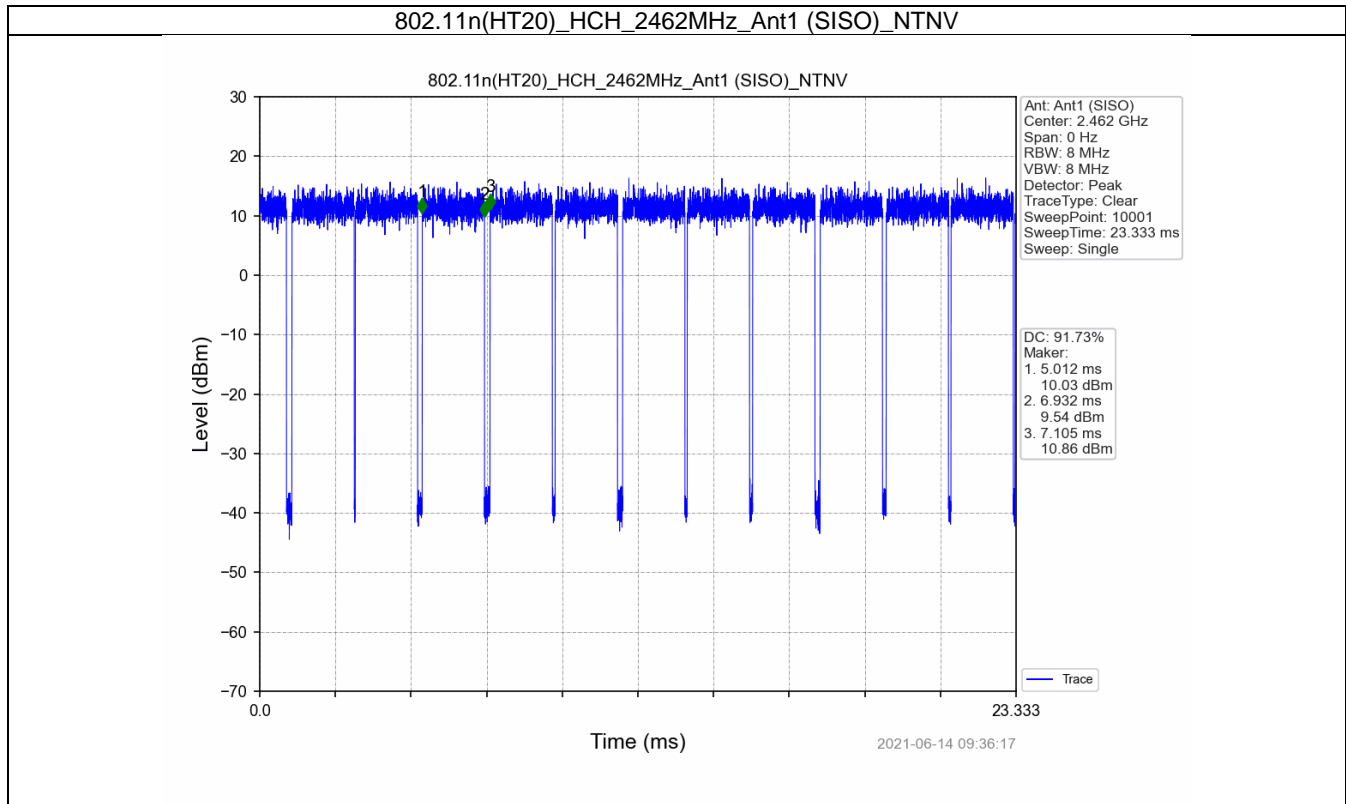
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	99% Occupied Bandwidth (MHz)	Limit (MHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	13.799	/	Note1
		2437	/	/	13.875	/	Note1
		2462	/	/	13.889	/	Note1
802.11g	SISO	2412	/	/	17.760	/	Note1
		2437	/	/	17.701	/	Note1
		2462	/	/	17.759	/	Note1
802.11n (HT20)	SISO	2412	/	/	18.798	/	Note1
		2437	/	/	18.602	/	Note1
		2462	/	/	18.409	/	Note1

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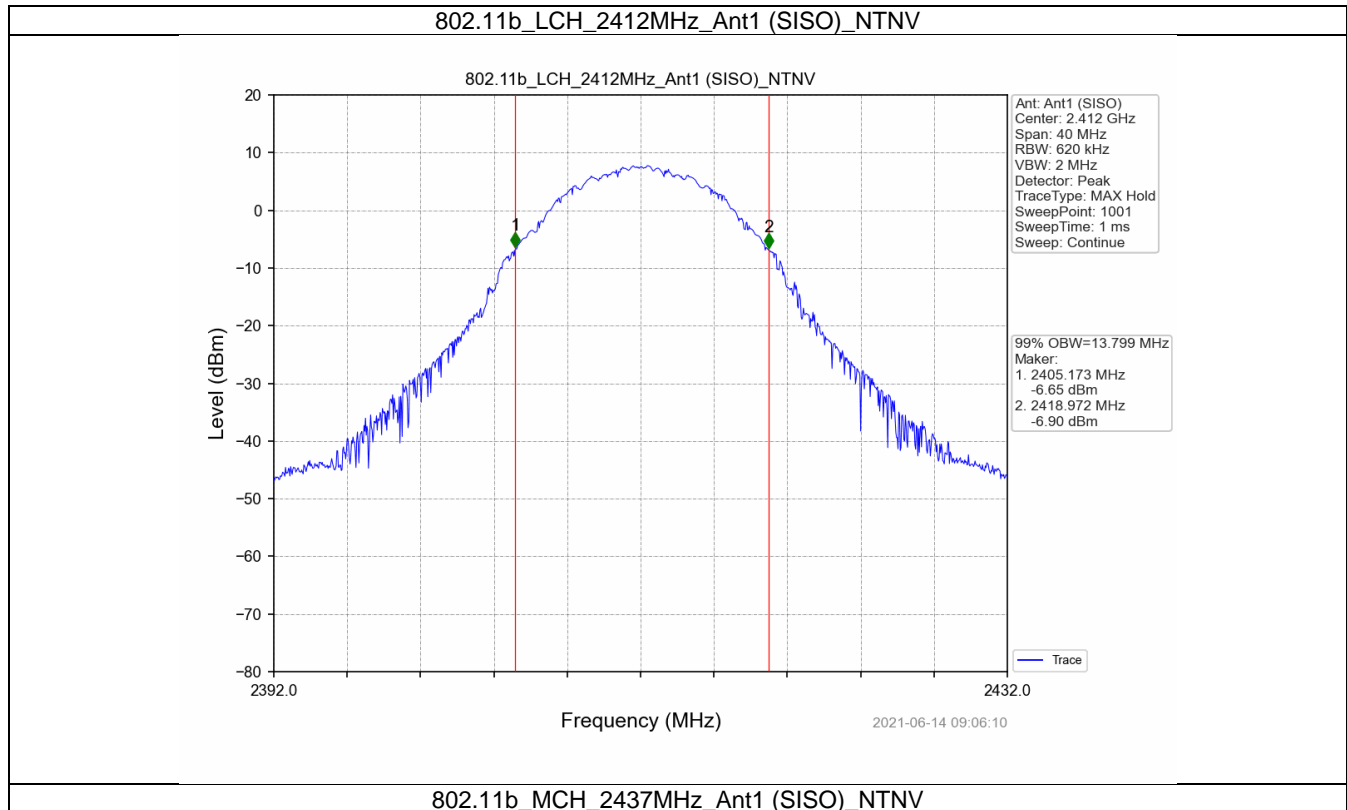
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2.1.2 Test Graph



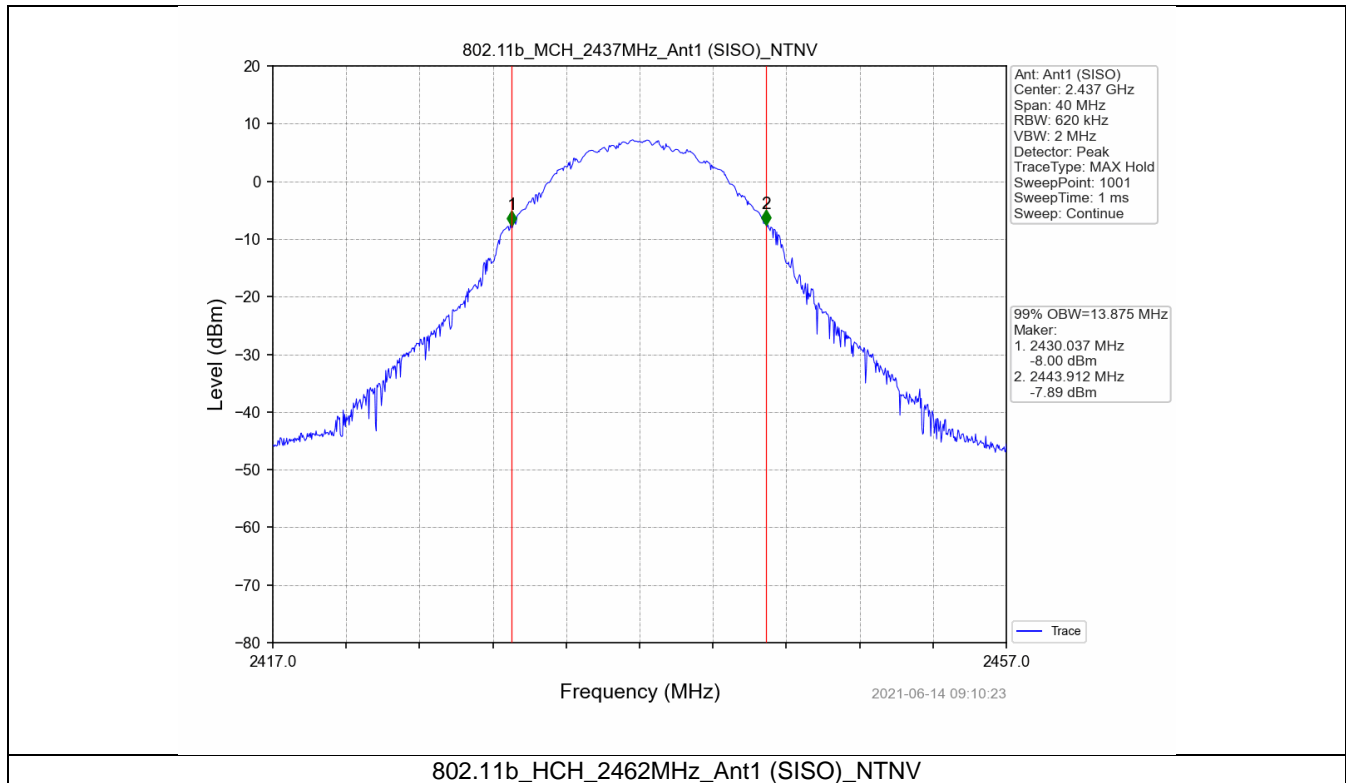
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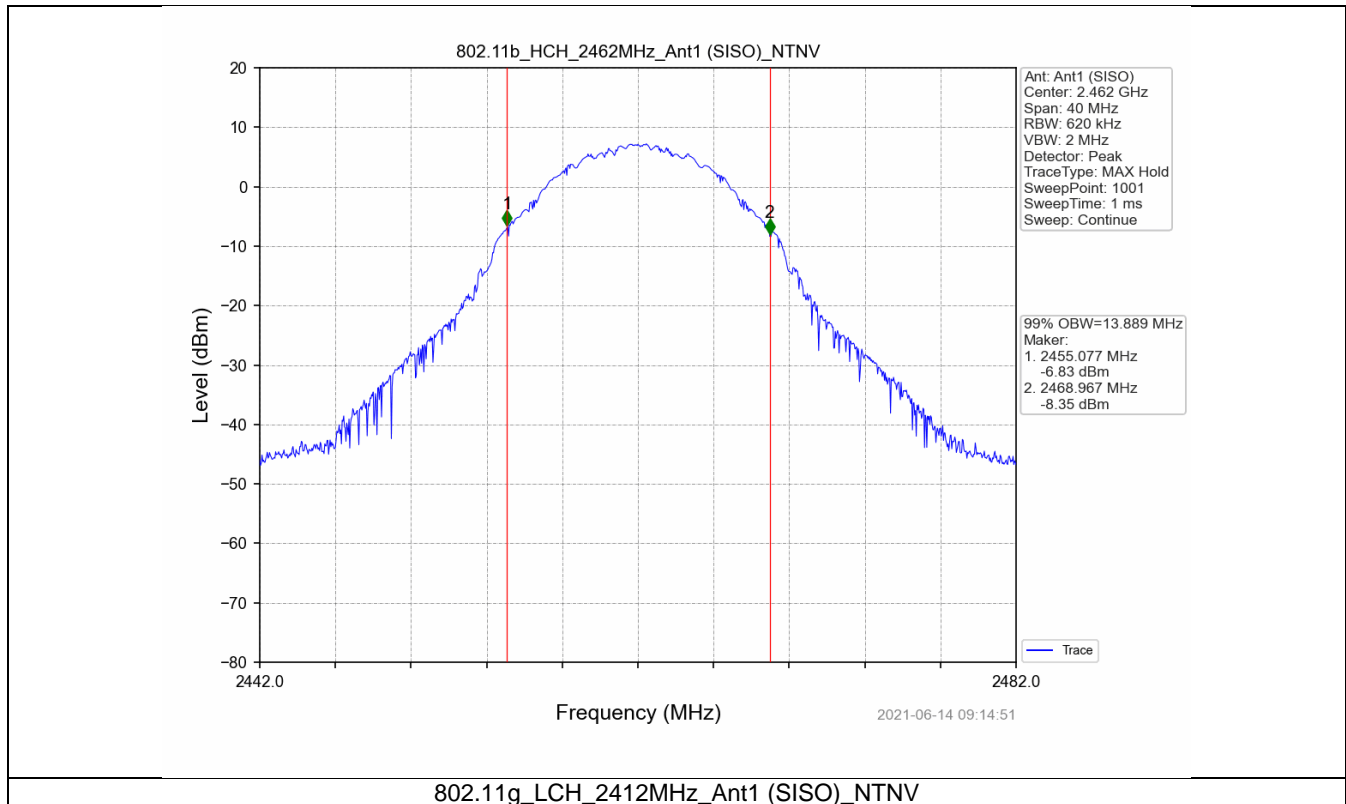
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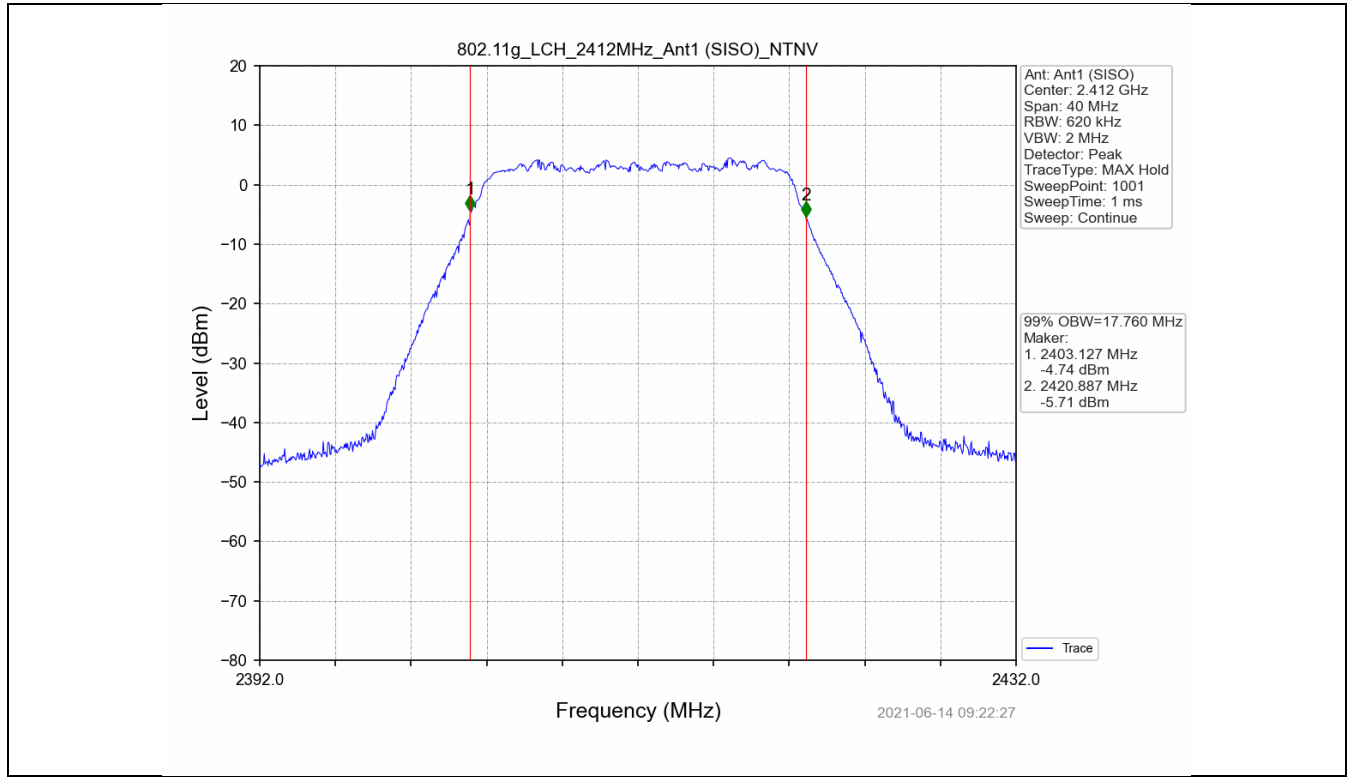
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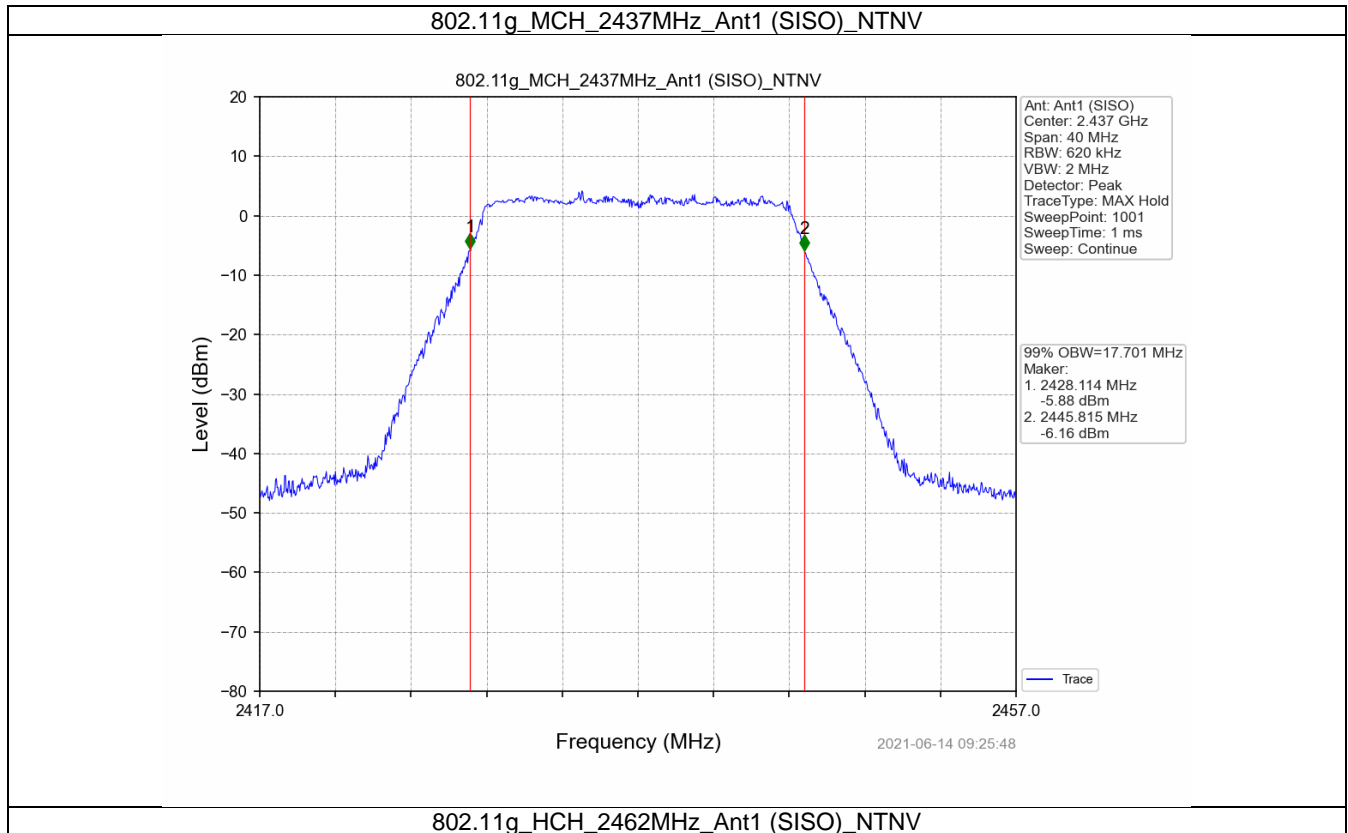
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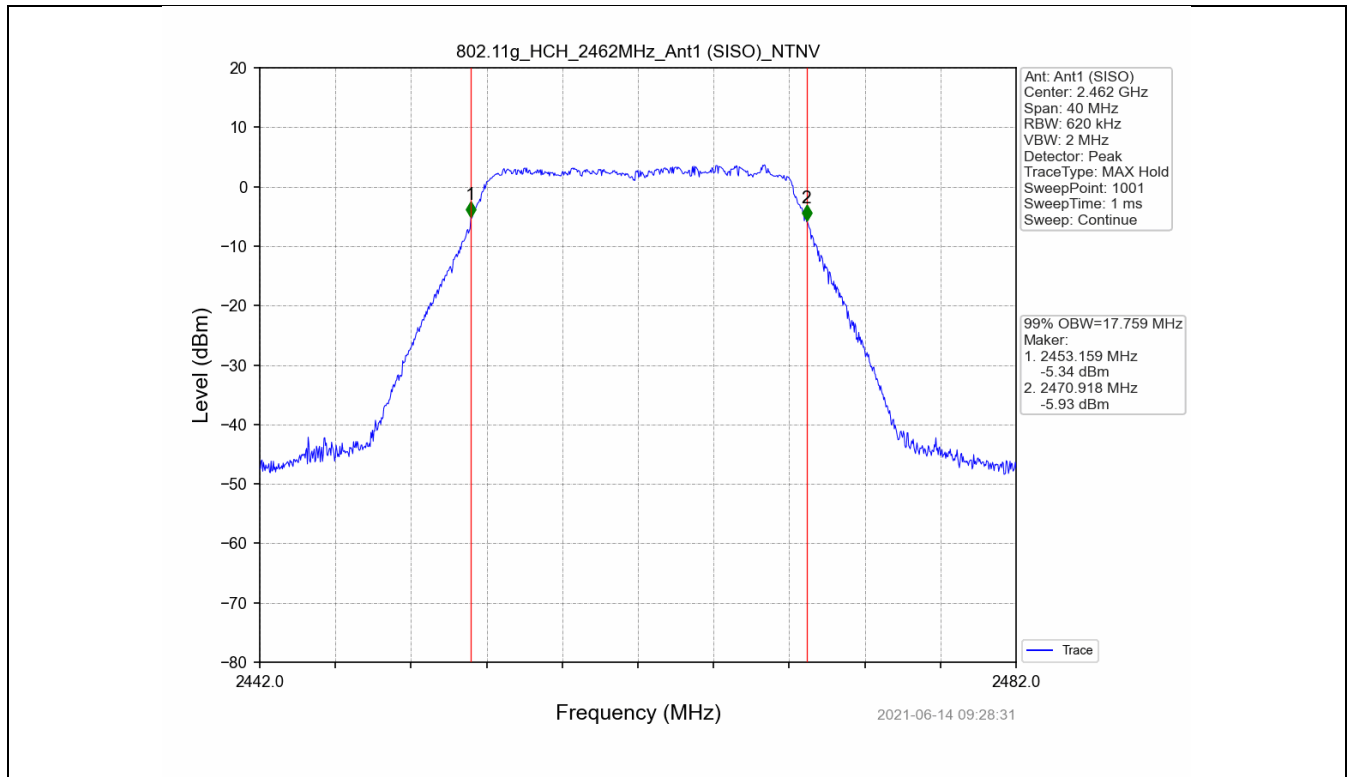
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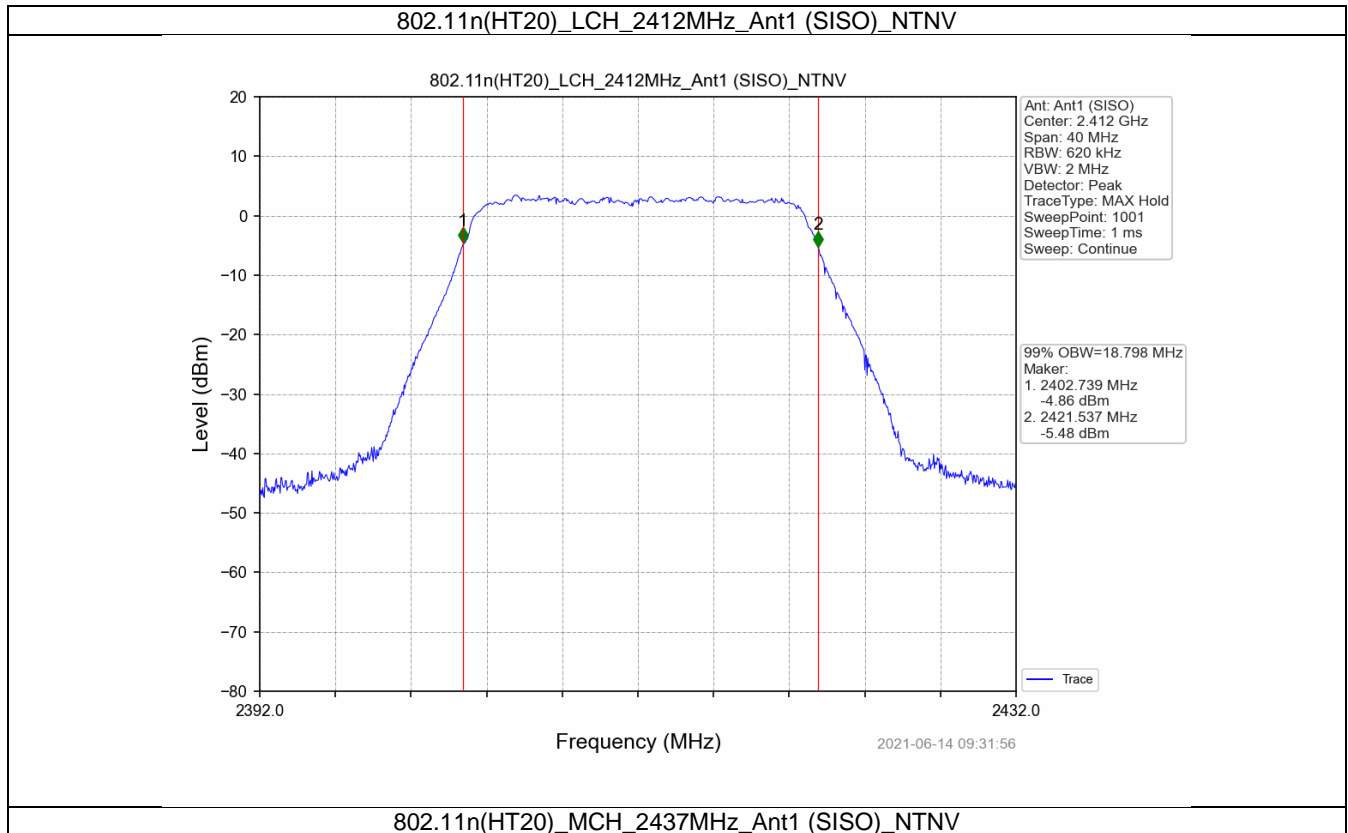
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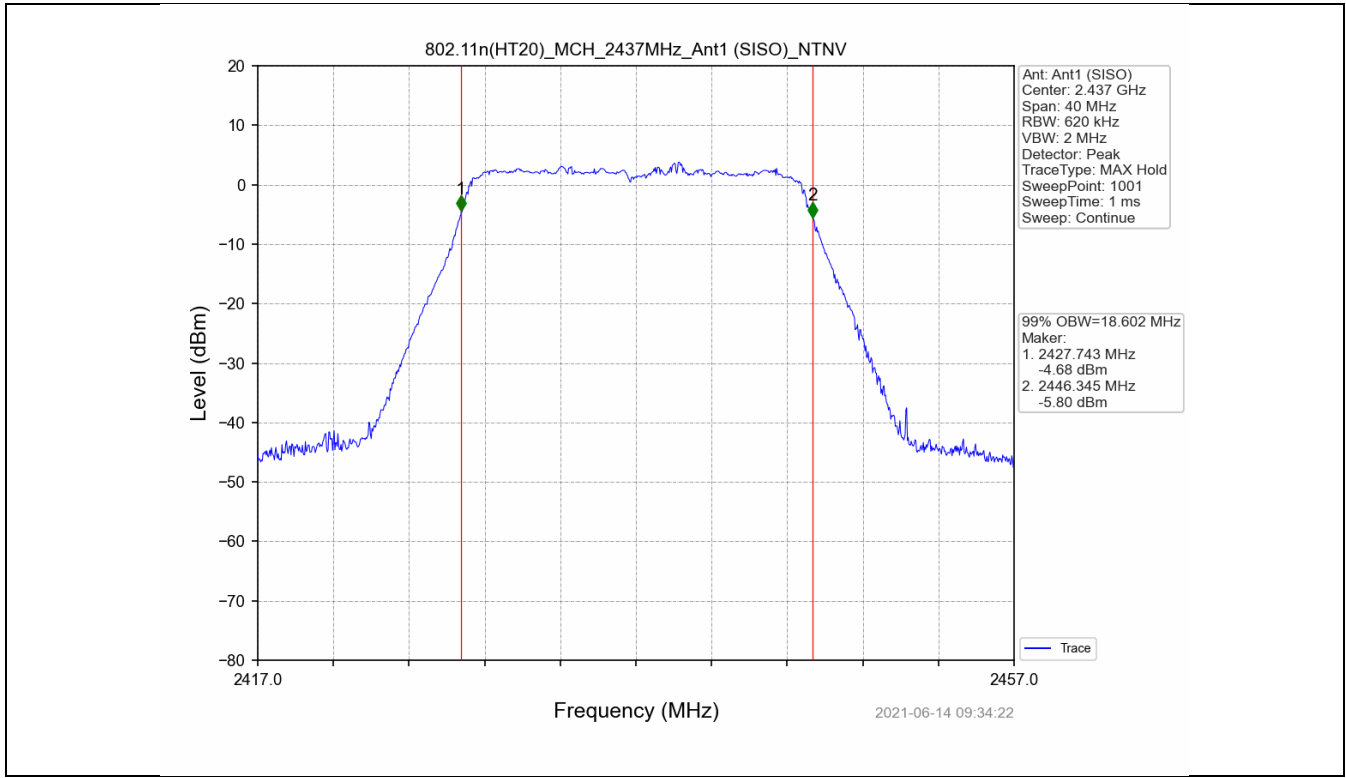
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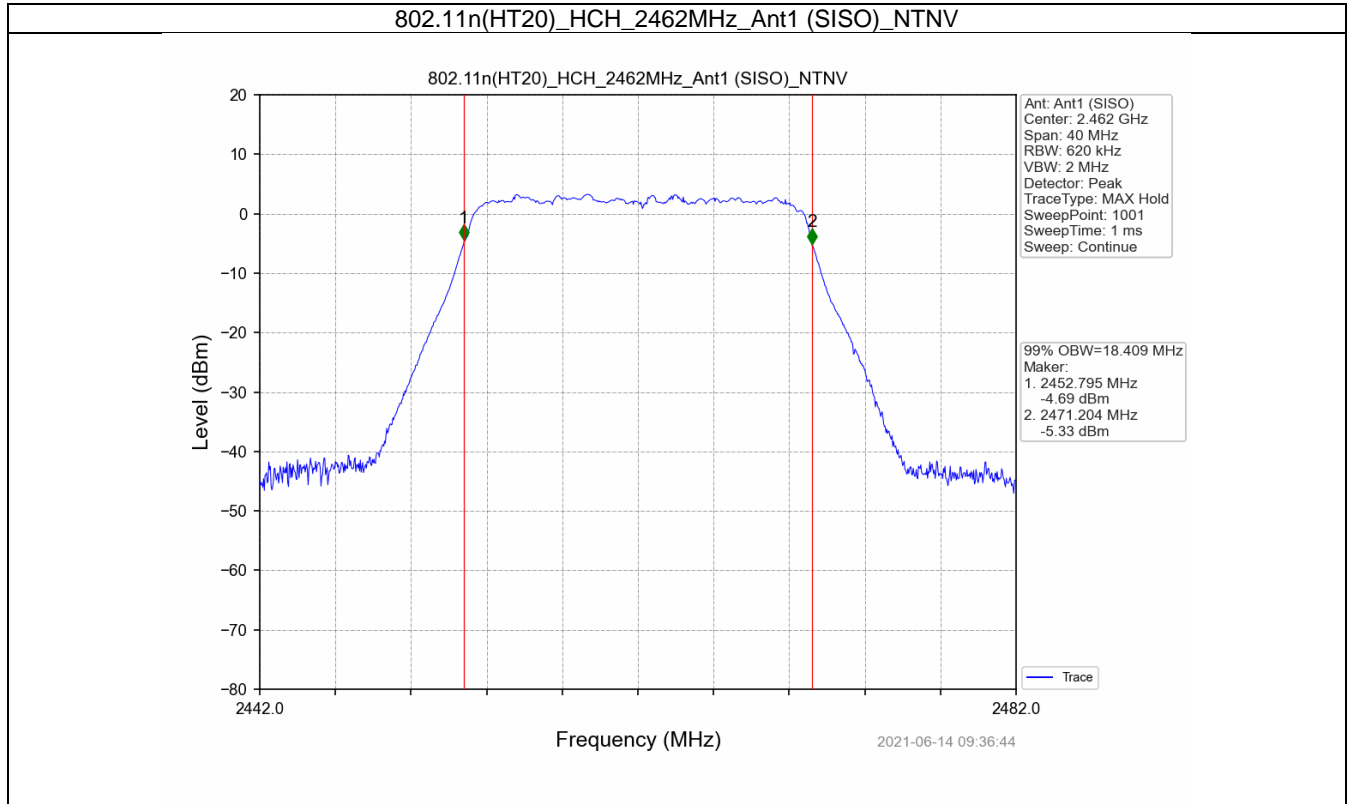
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2.2 XDB

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	9.066	>=0.5	Pass
		2437	/	/	9.068	>=0.5	Pass
		2462	/	/	9.076	>=0.5	Pass
802.11g	SISO	2412	/	/	16.378	>=0.5	Pass
		2437	/	/	16.402	>=0.5	Pass
		2462	/	/	16.394	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	17.560	>=0.5	Pass
		2437	/	/	17.597	>=0.5	Pass
		2462	/	/	17.591	>=0.5	Pass



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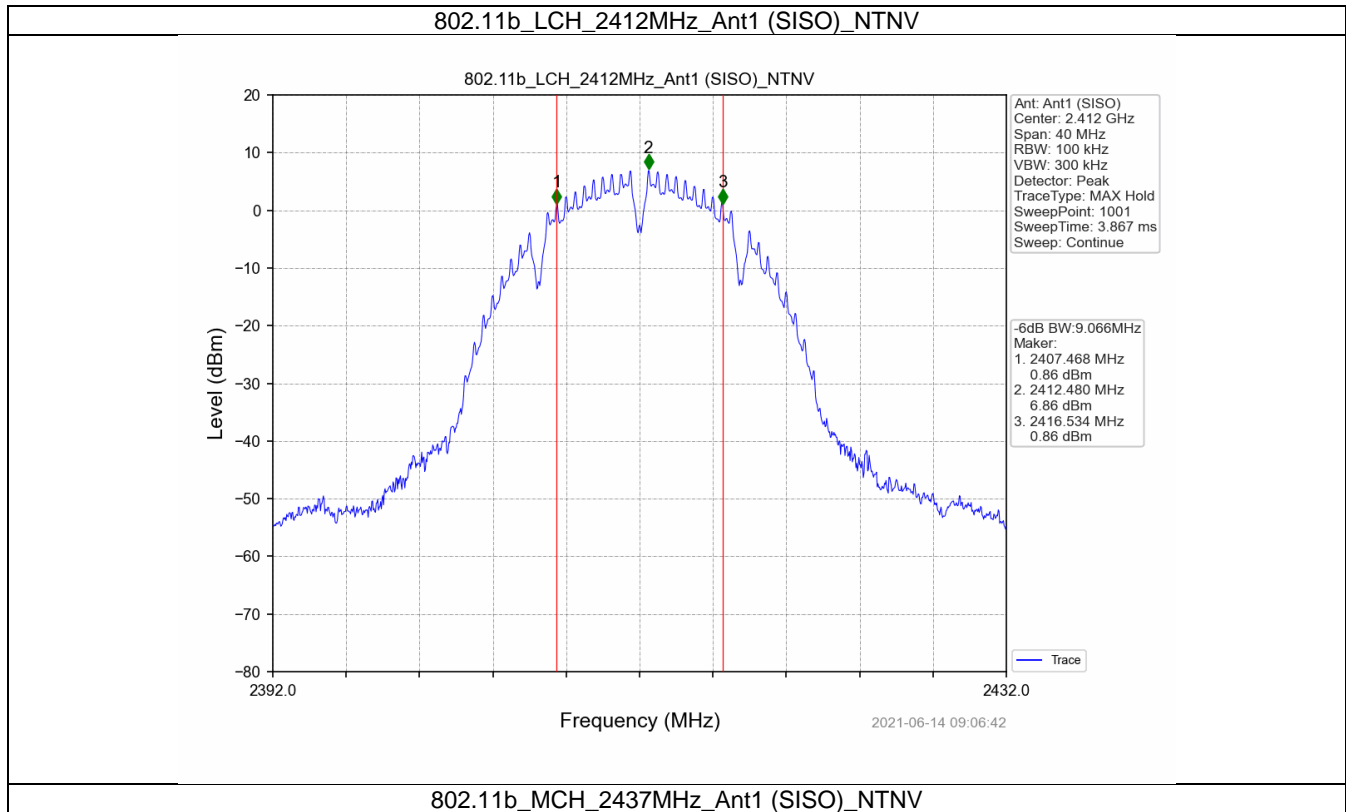
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2.2.2 Test Graph



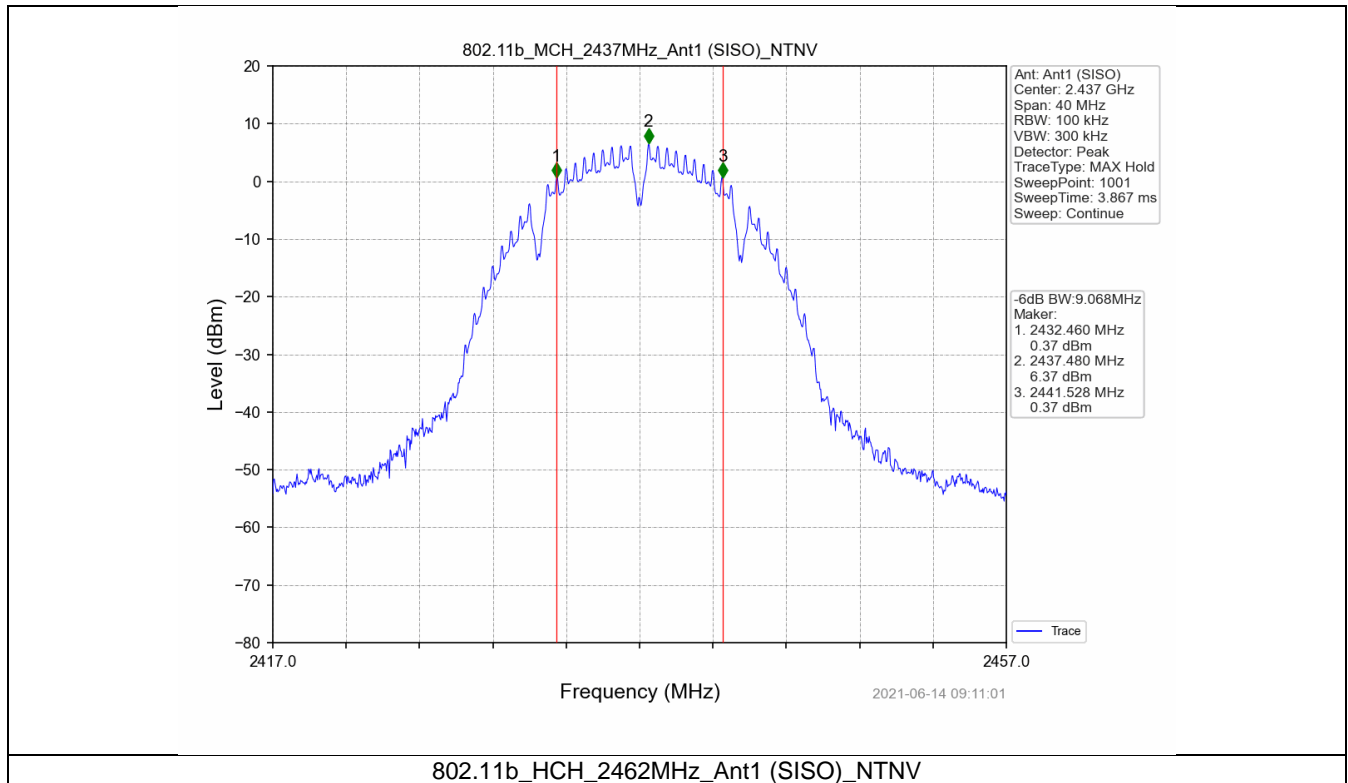
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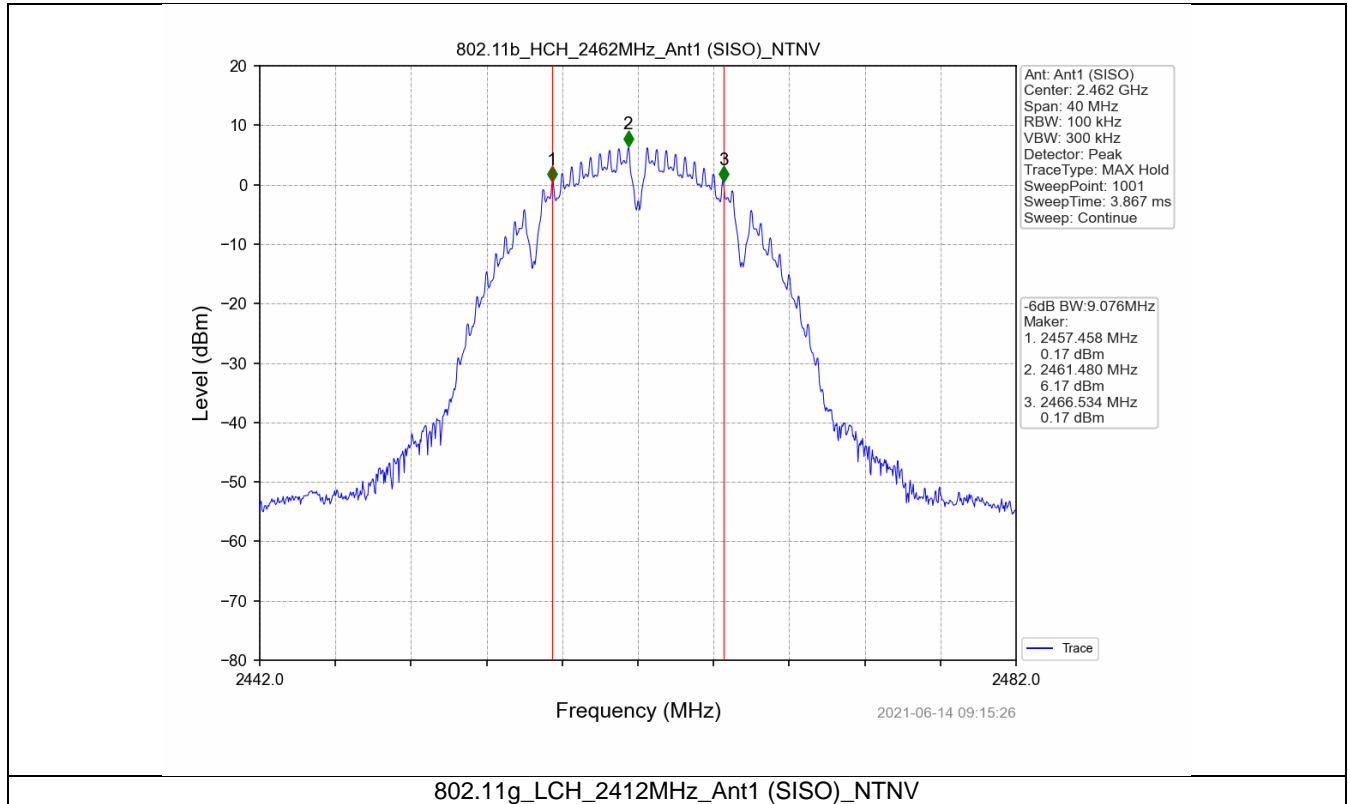
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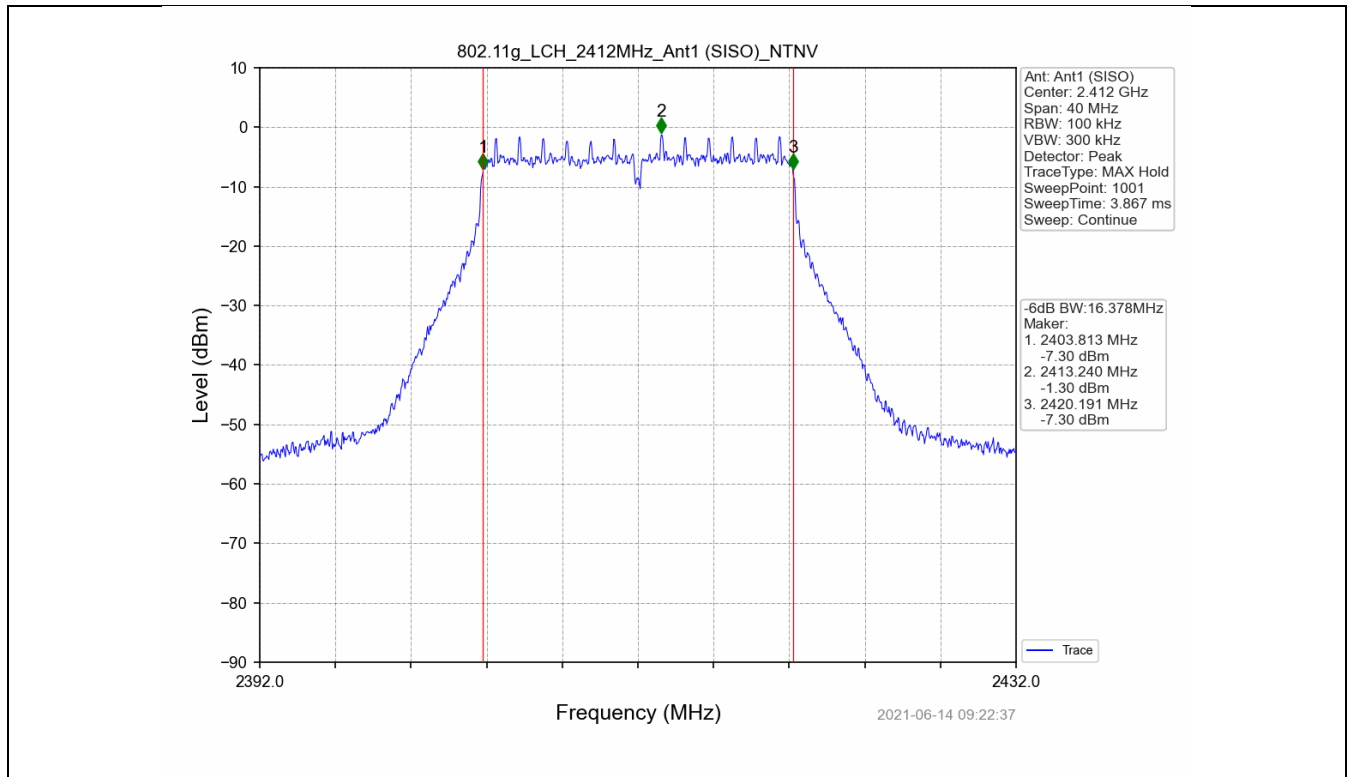
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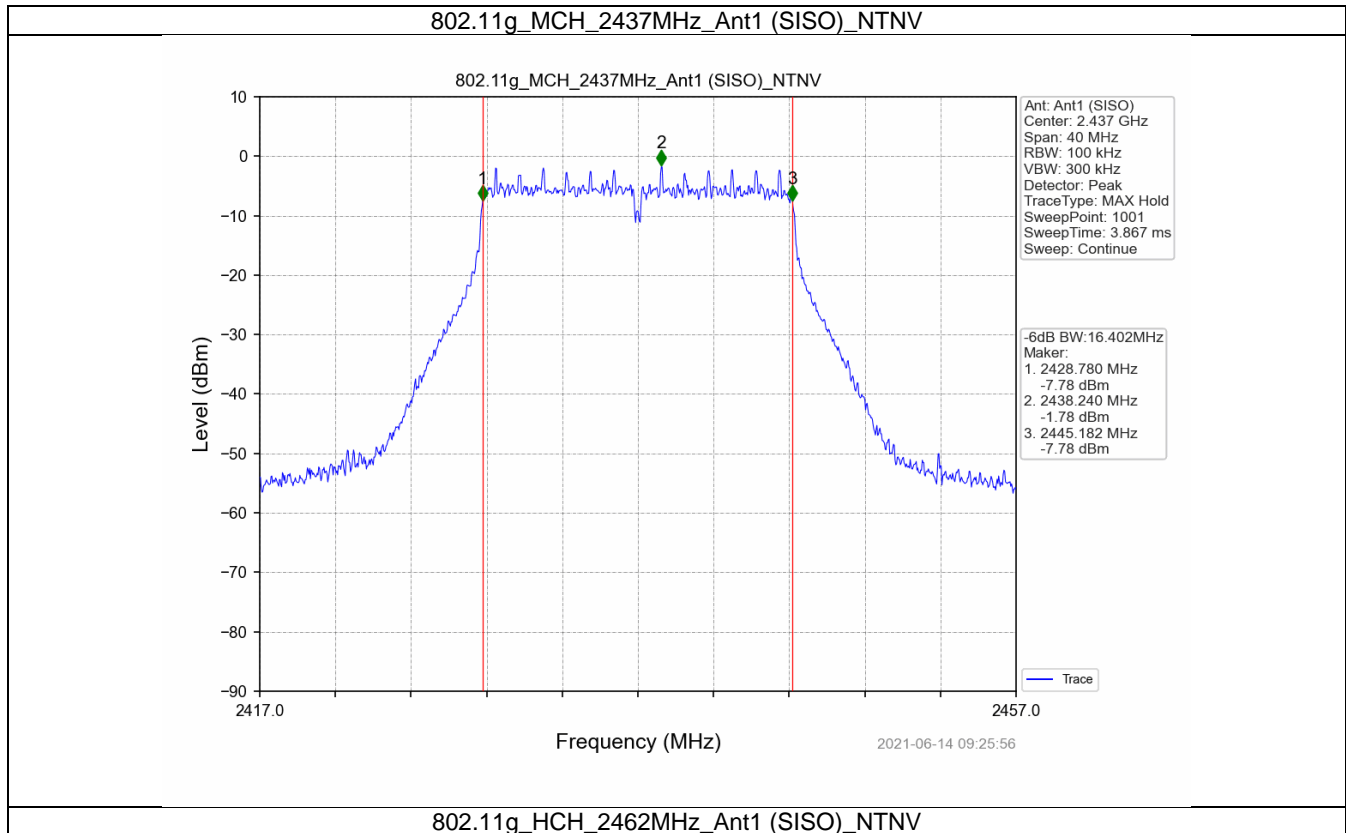
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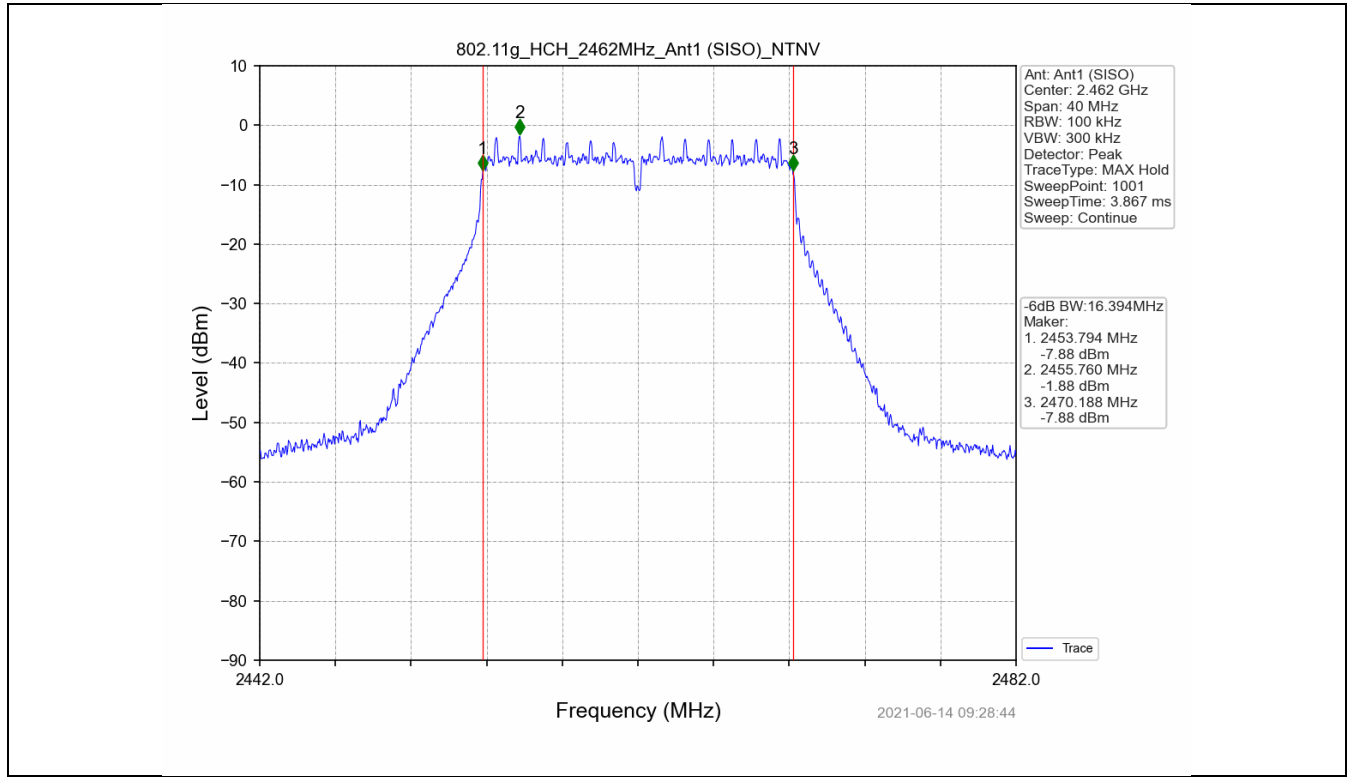
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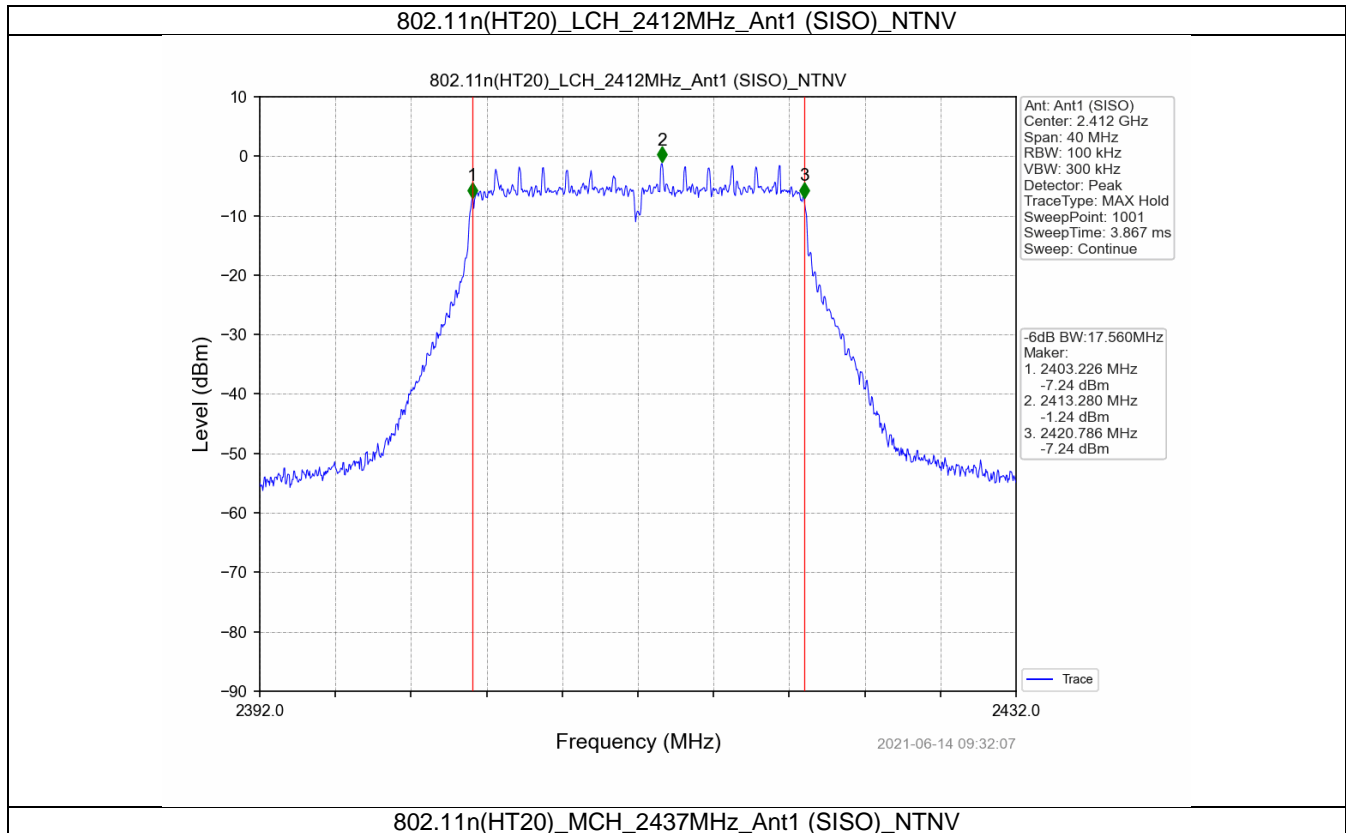
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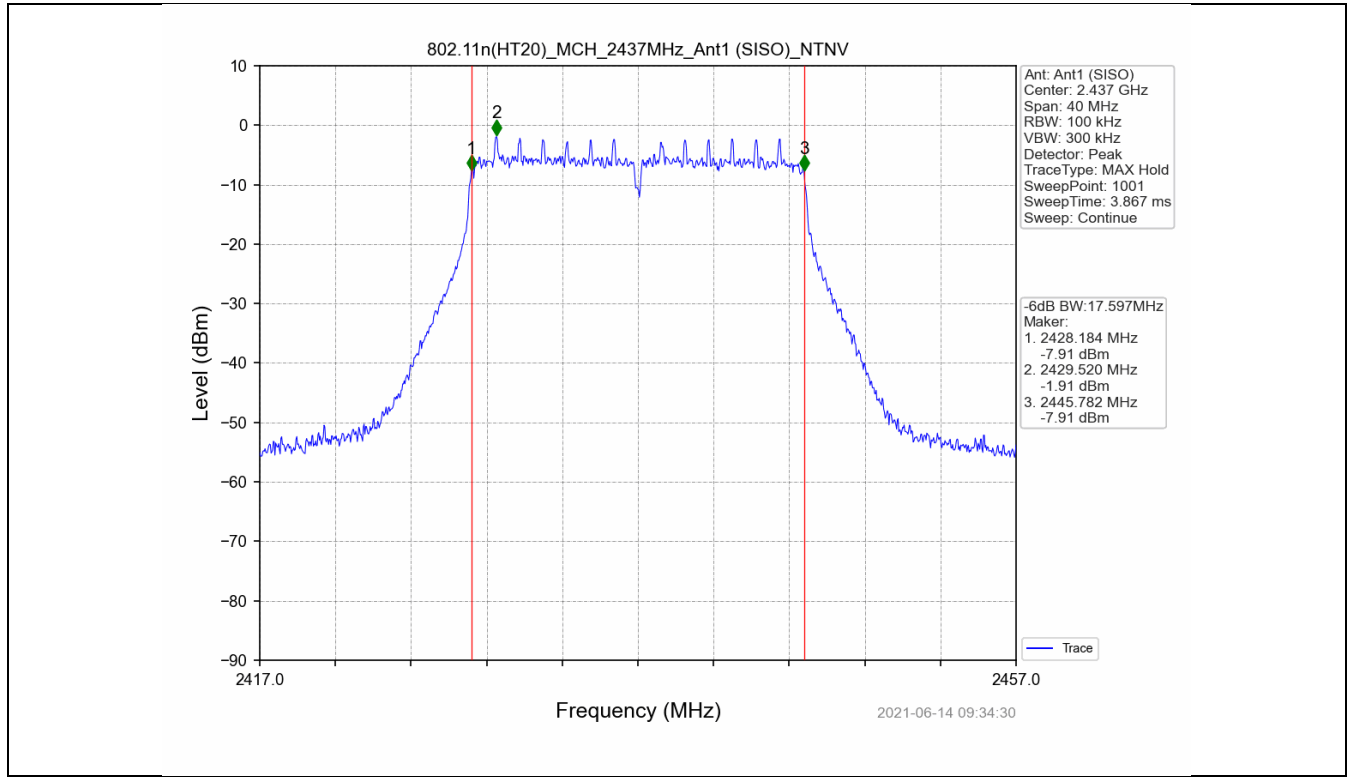
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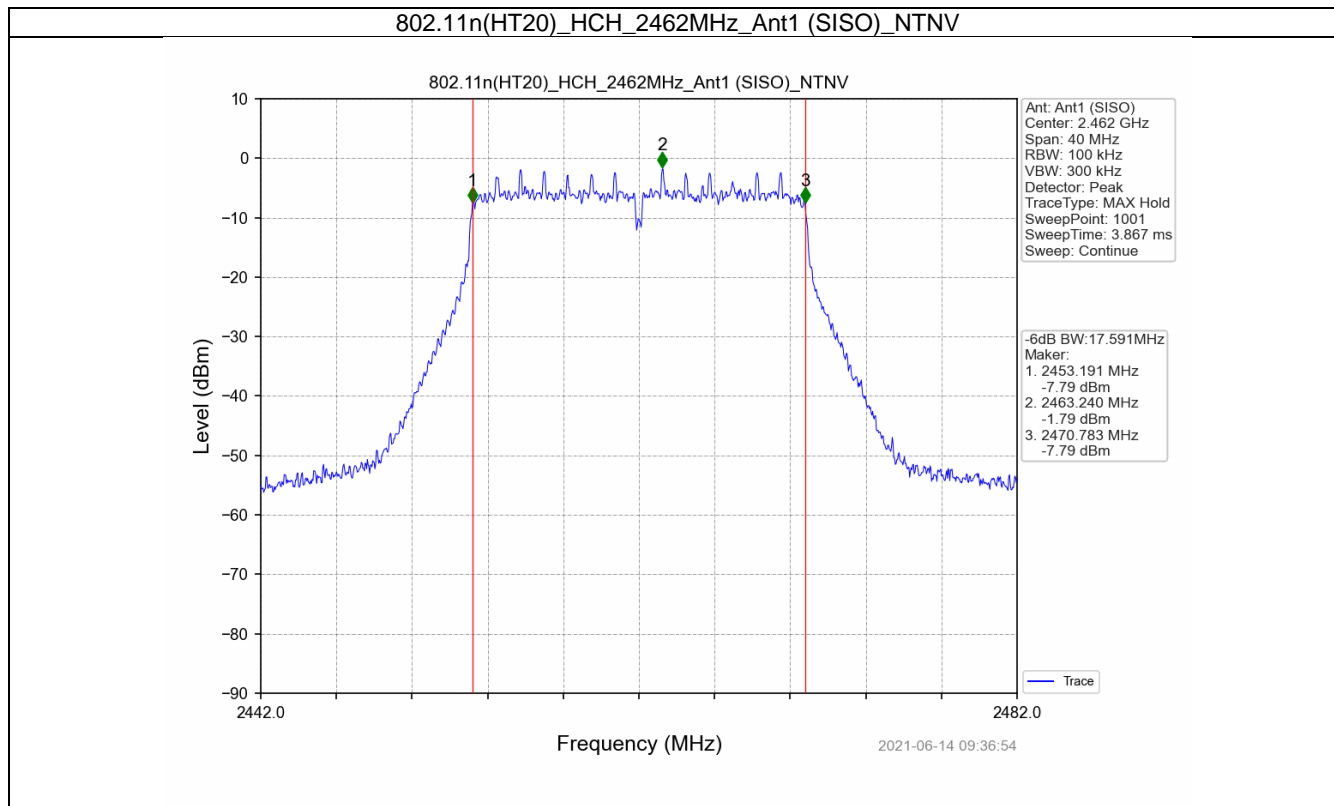
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Measured Peak Output Power (dBm)	Limit (dBm)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	17.61	<=30	Pass
		2437	/	/	17.15	<=30	Pass
		2462	/	/	17.05	<=30	Pass
802.11g	SISO	2412	/	/	17.69	<=30	Pass
		2437	/	/	17.23	<=30	Pass
		2462	/	/	17.14	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	17.55	<=30	Pass
		2437	/	/	17.16	<=30	Pass
		2462	/	/	17.07	<=30	Pass

Note1: Antenna Gain: 1: 2.6dBi;



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4. Maximum Power Spectral Density

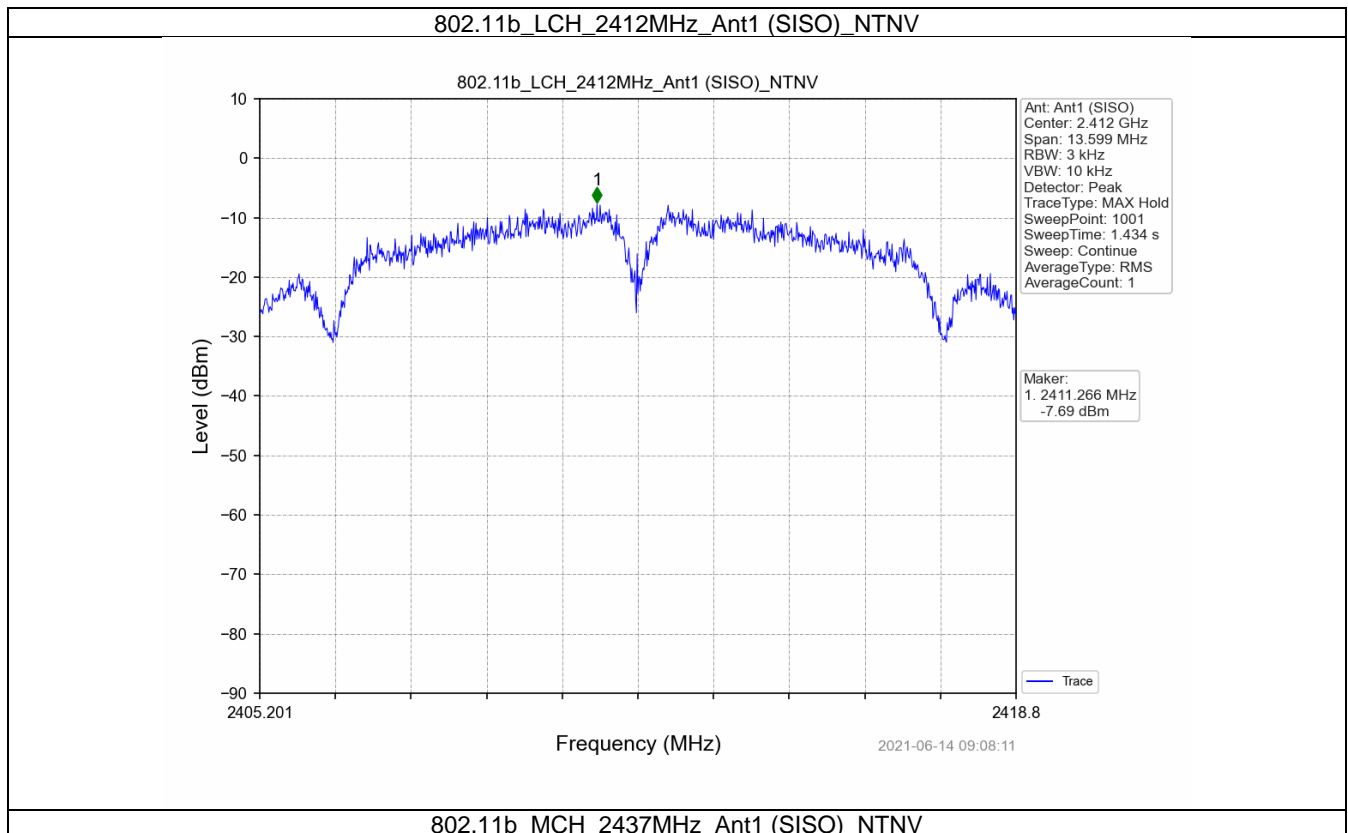
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	-7.69	<=8	Pass
		2437	/	/	-7.53	<=8	Pass
		2462	/	/	-8.08	<=8	Pass
802.11g	SISO	2412	/	/	-14.81	<=8	Pass
		2437	/	/	-14.84	<=8	Pass
		2462	/	/	-15.33	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-14.85	<=8	Pass
		2437	/	/	-16.28	<=8	Pass
		2462	/	/	-15.93	<=8	Pass

Note1: Antenna Gain: 1: 2.6dBi;

4.1.2 Test Graph



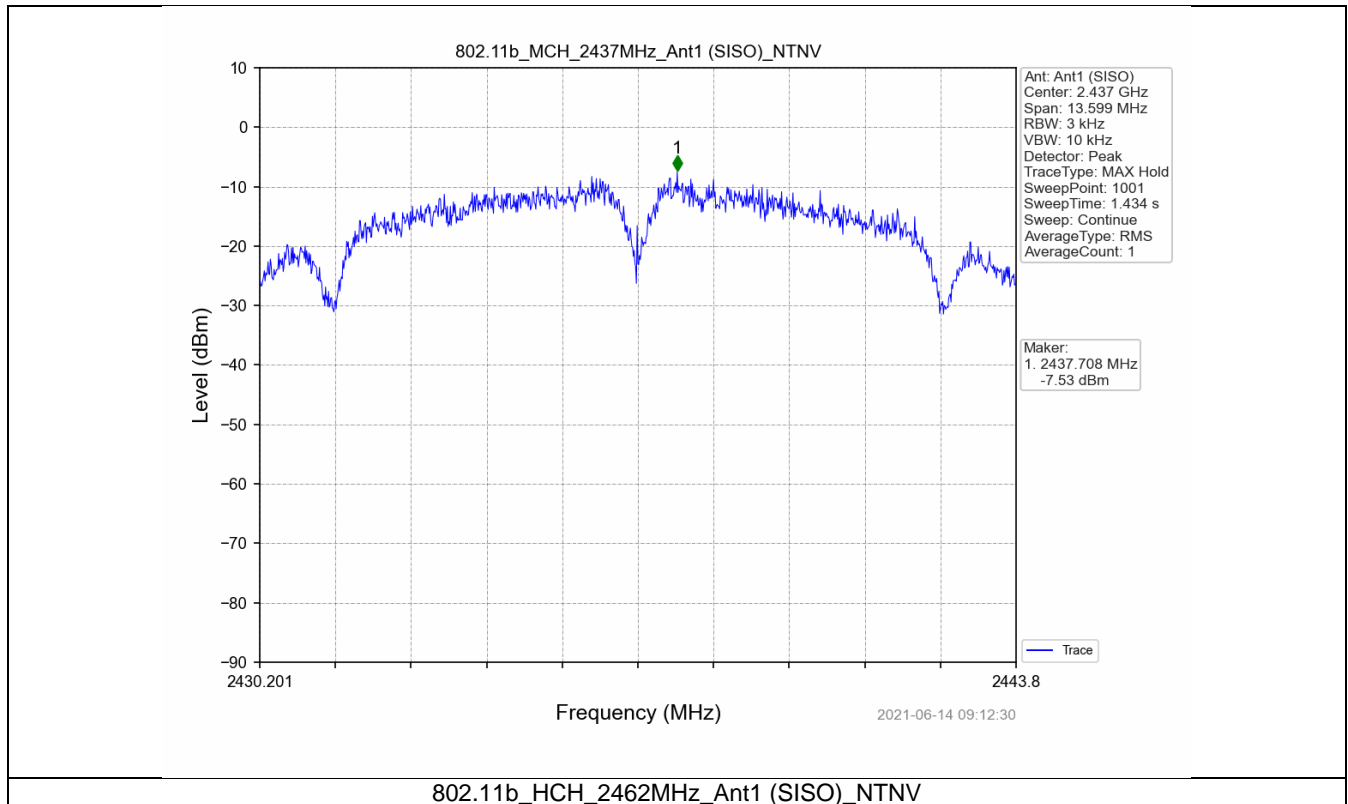
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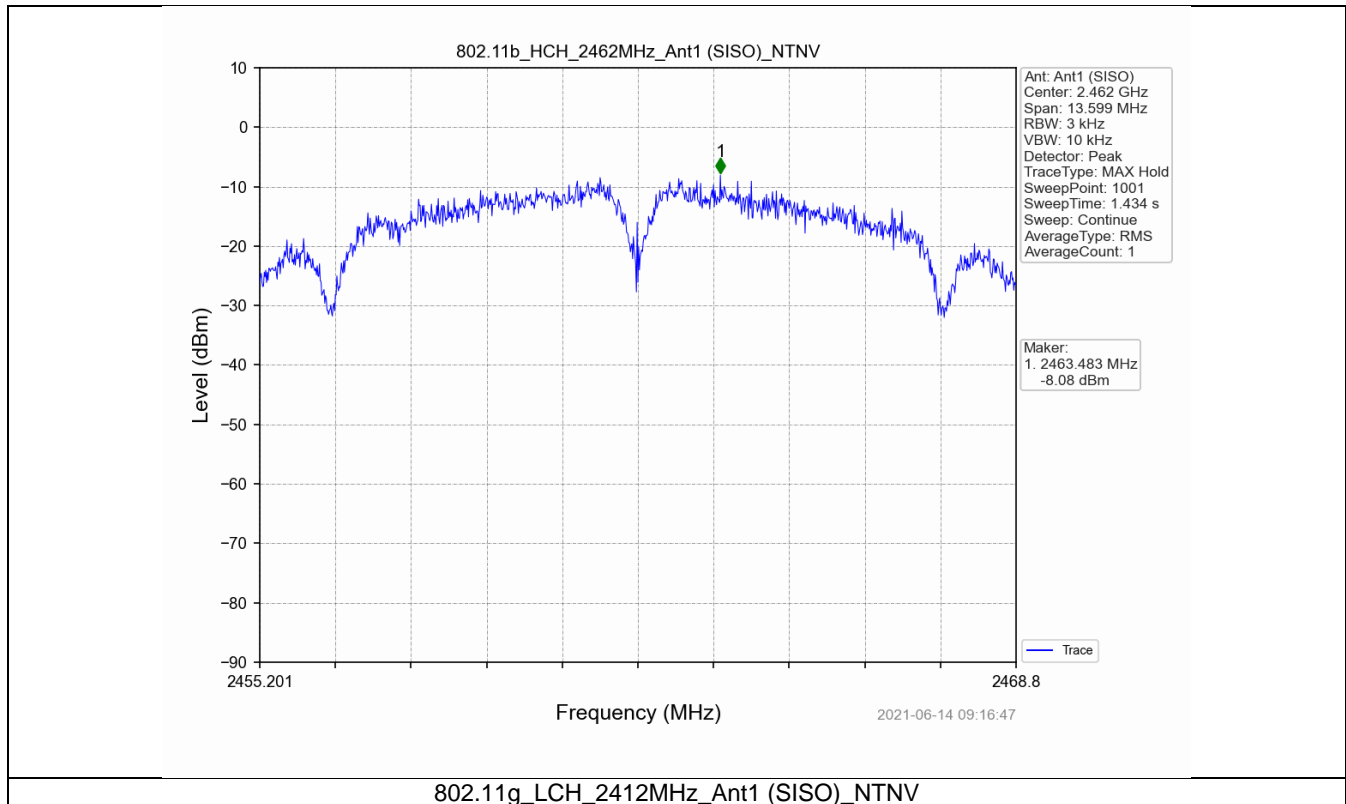
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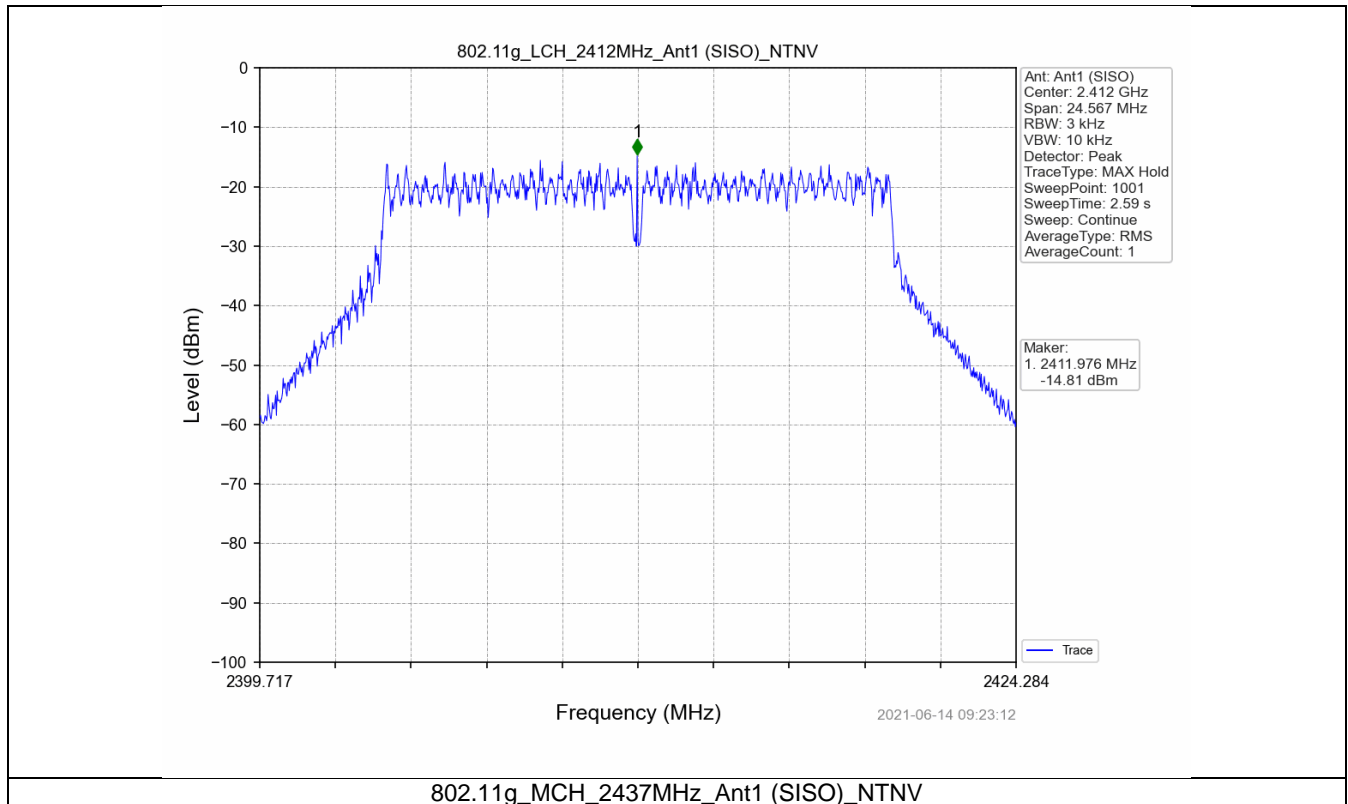
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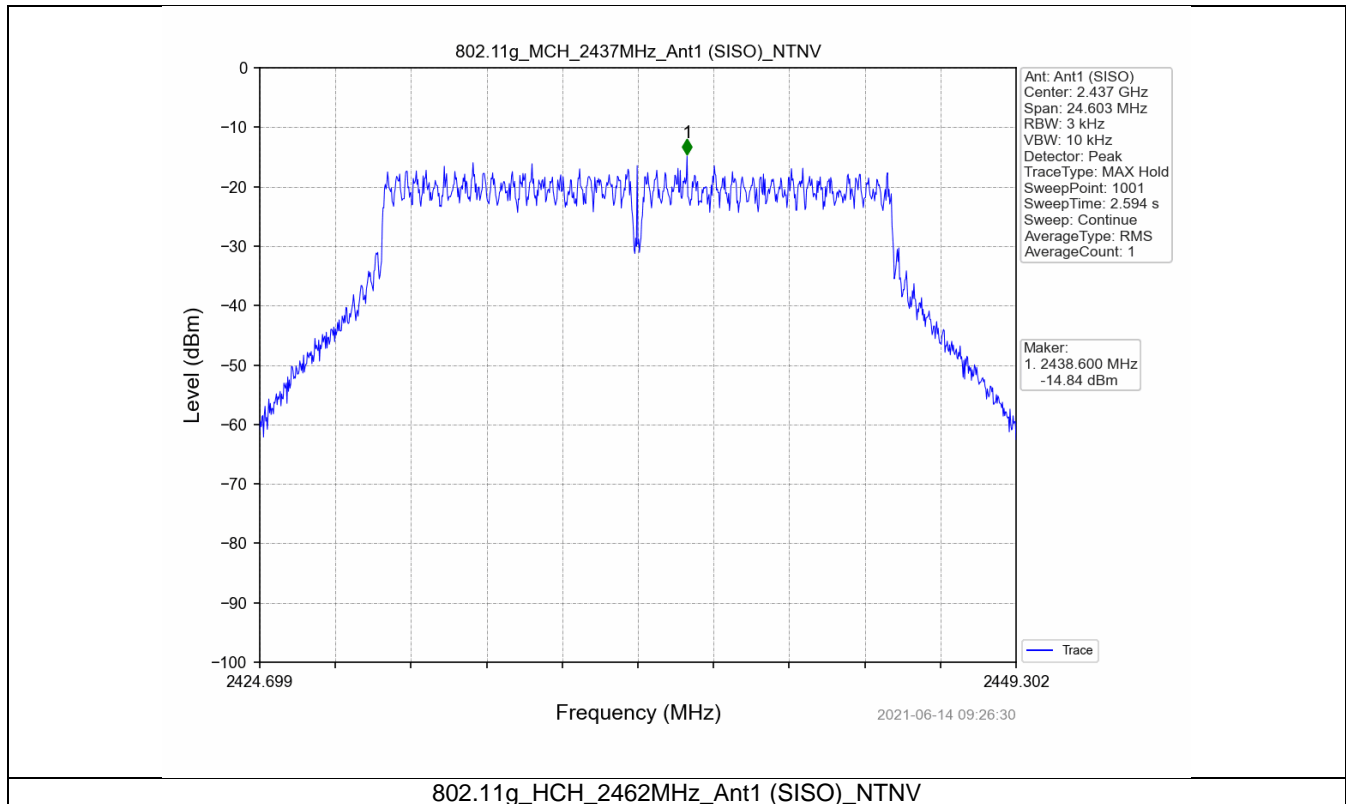
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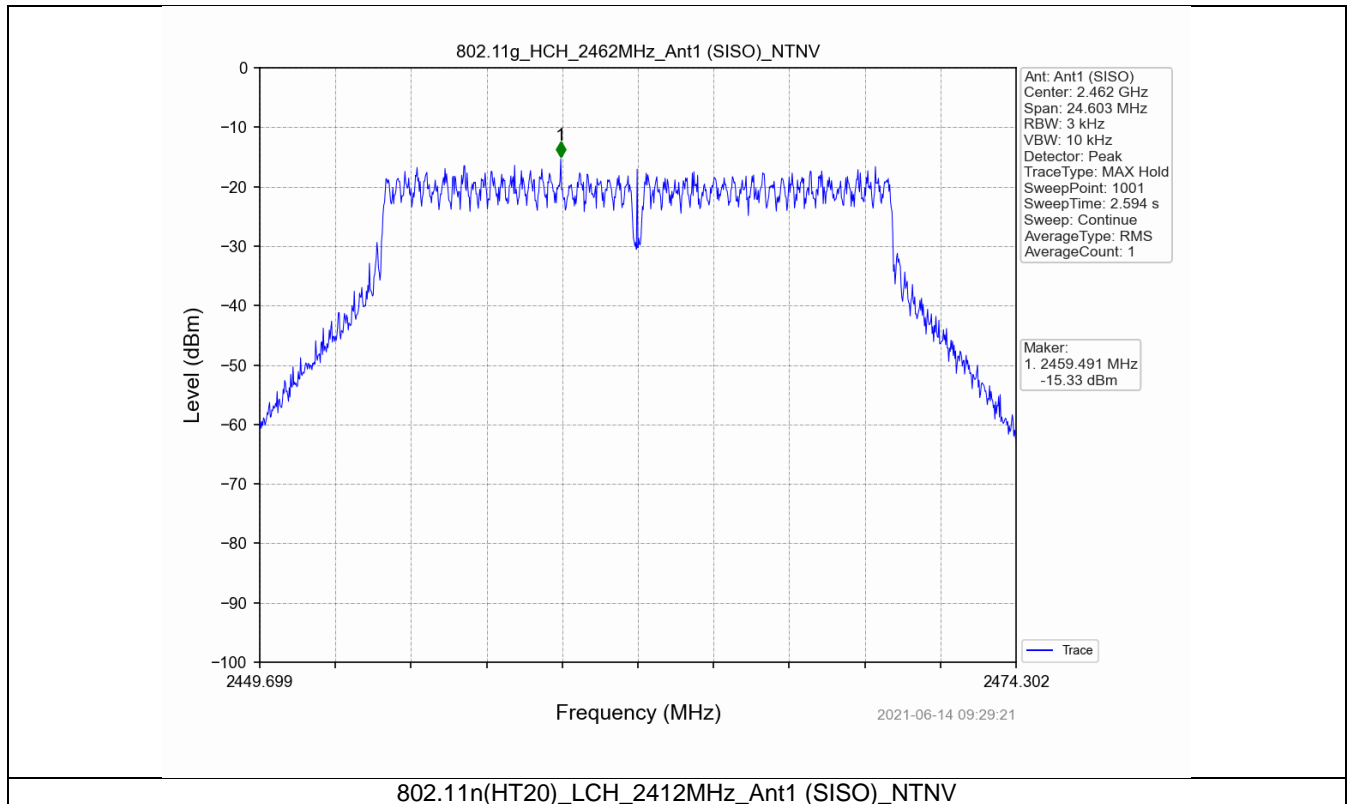
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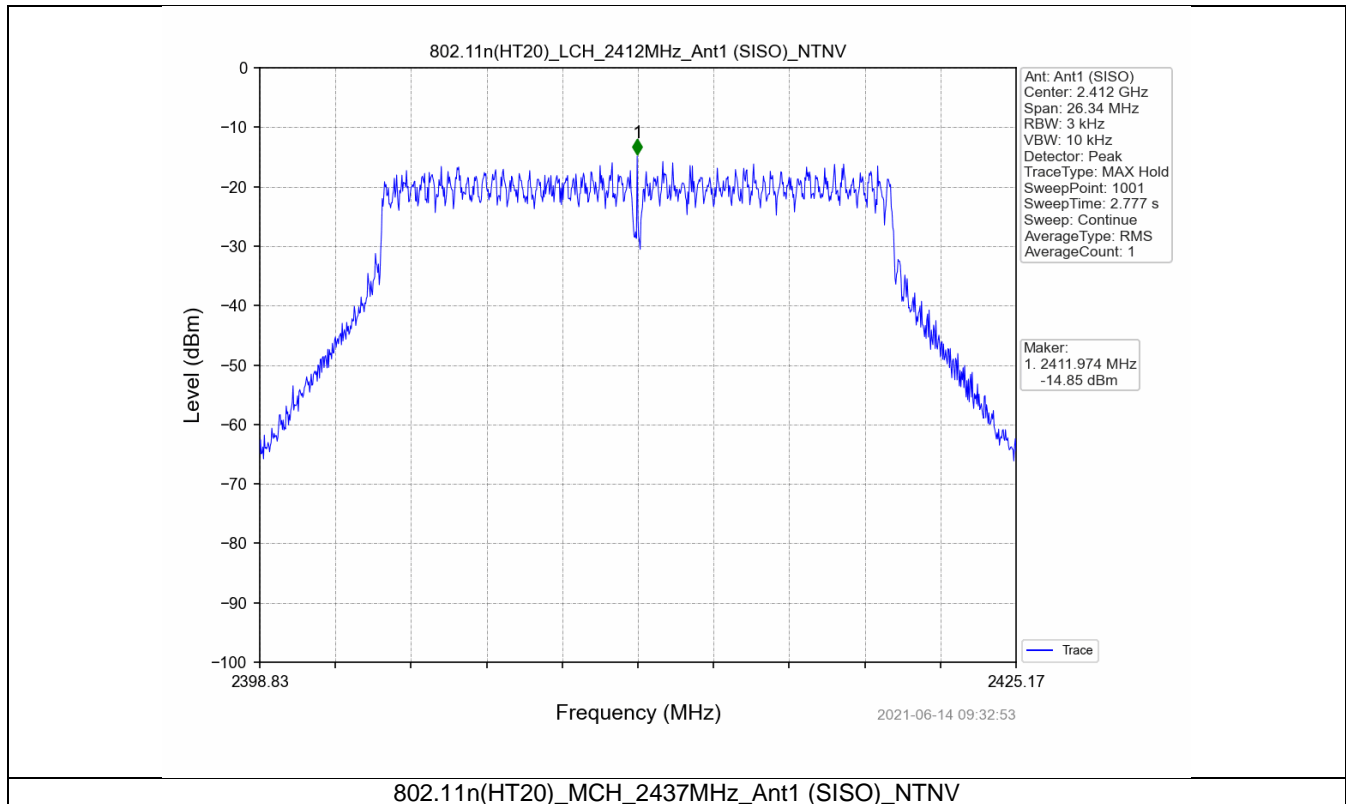
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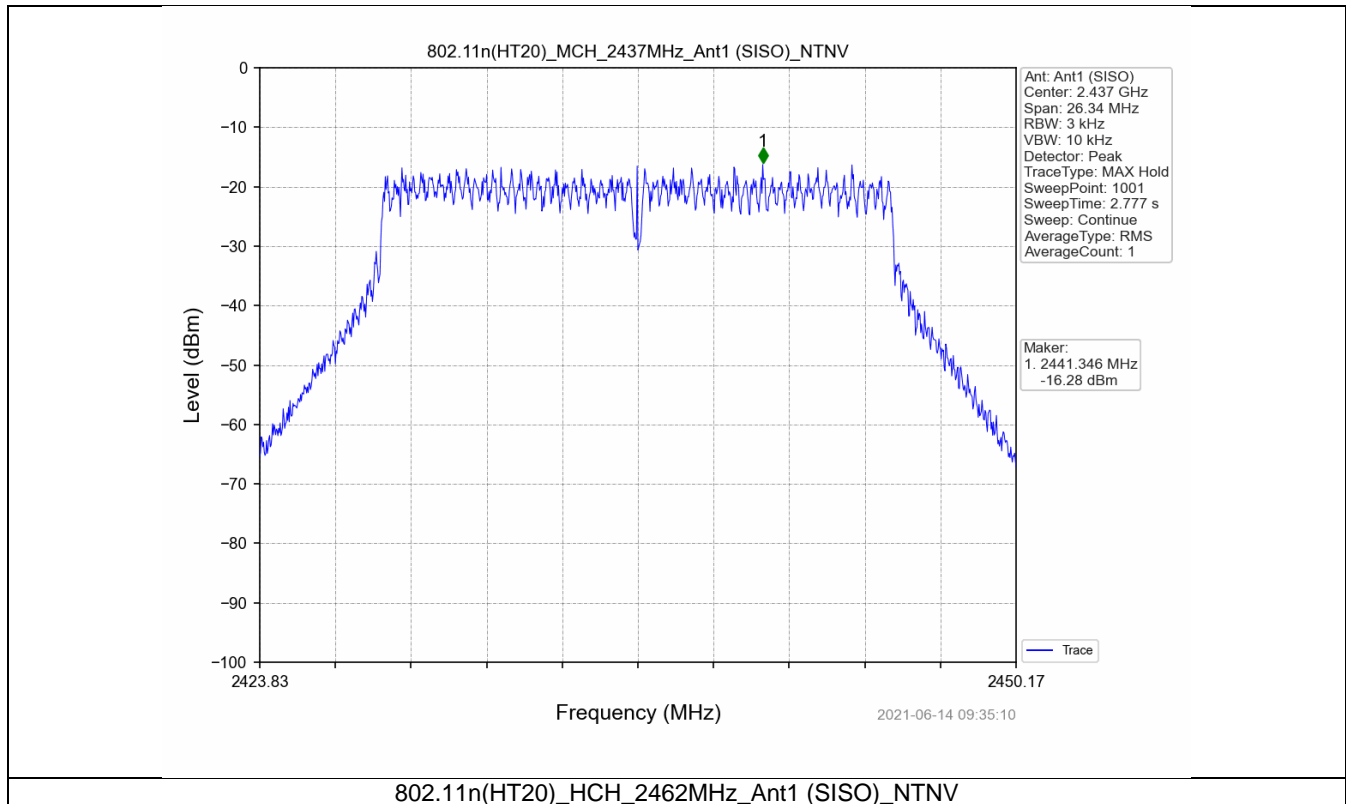
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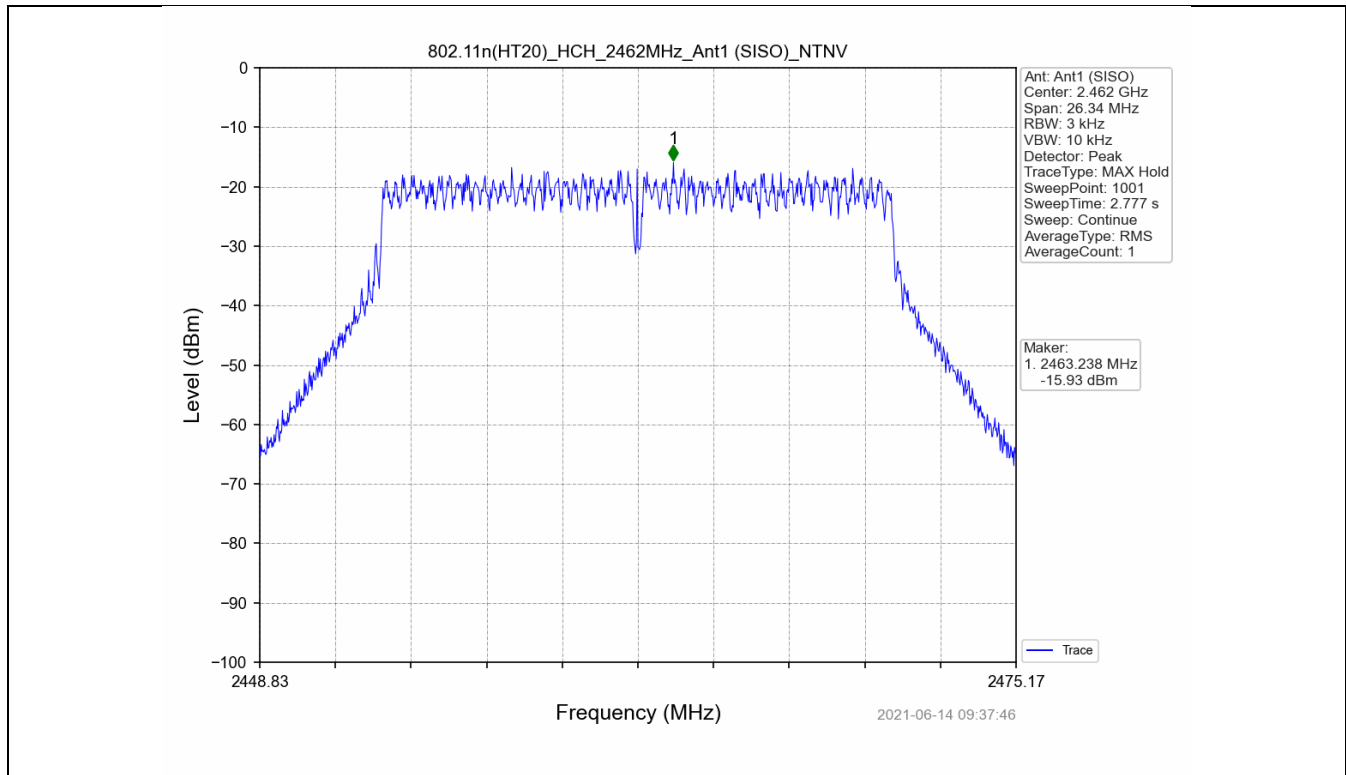
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	6.75	/	/
		2437	/	/	1	6.19	/	/
		2462	/	/	1	5.89	/	/
802.11g	SISO	2412	/	/	1	-1.63	/	/
		2437	/	/	1	-1.84	/	/
		2462	/	/	1	-2.28	/	/
802.11n (HT20)	SISO	2412	/	/	1	-1.31	/	/
		2437	/	/	1	-1.66	/	/
		2462	/	/	1	-1.82	/	/
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.								
Note2: Only for Report Use								

5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



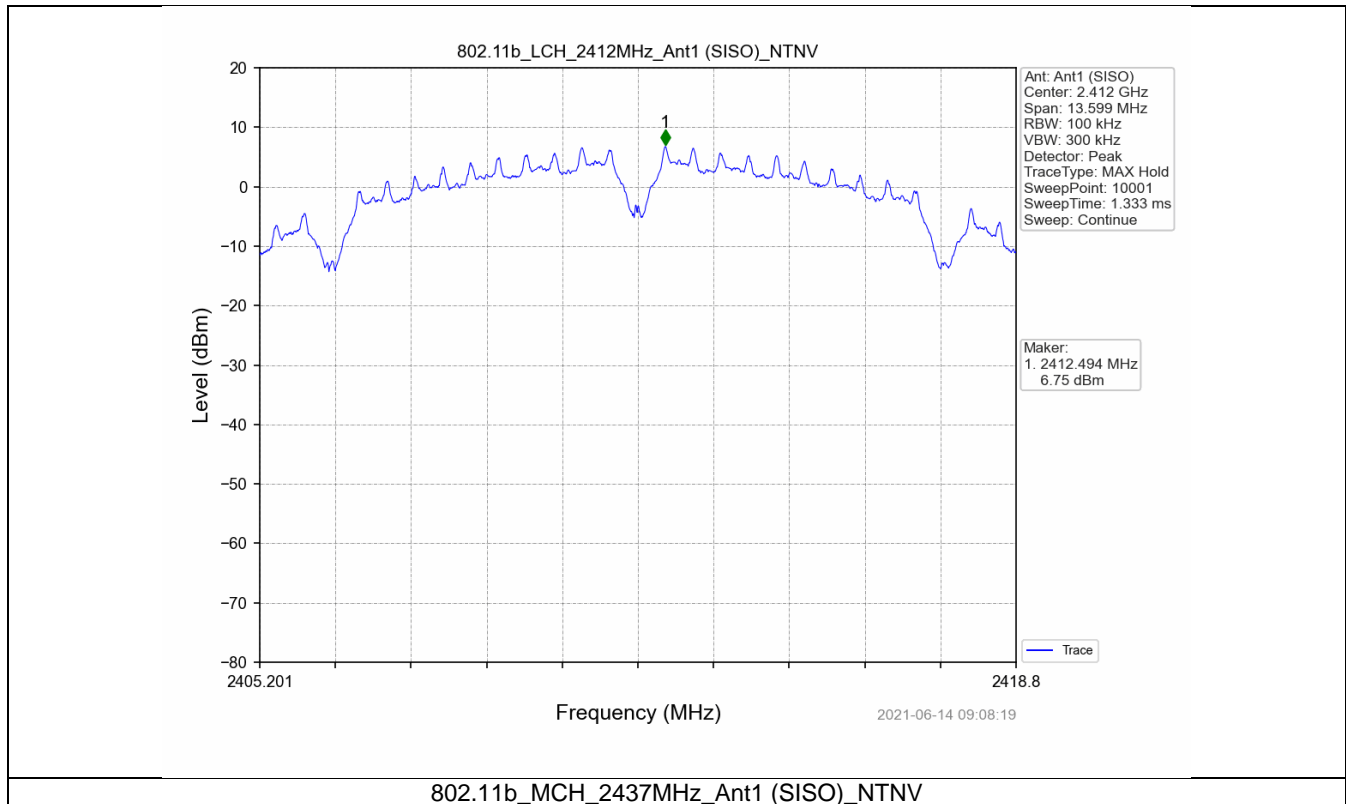
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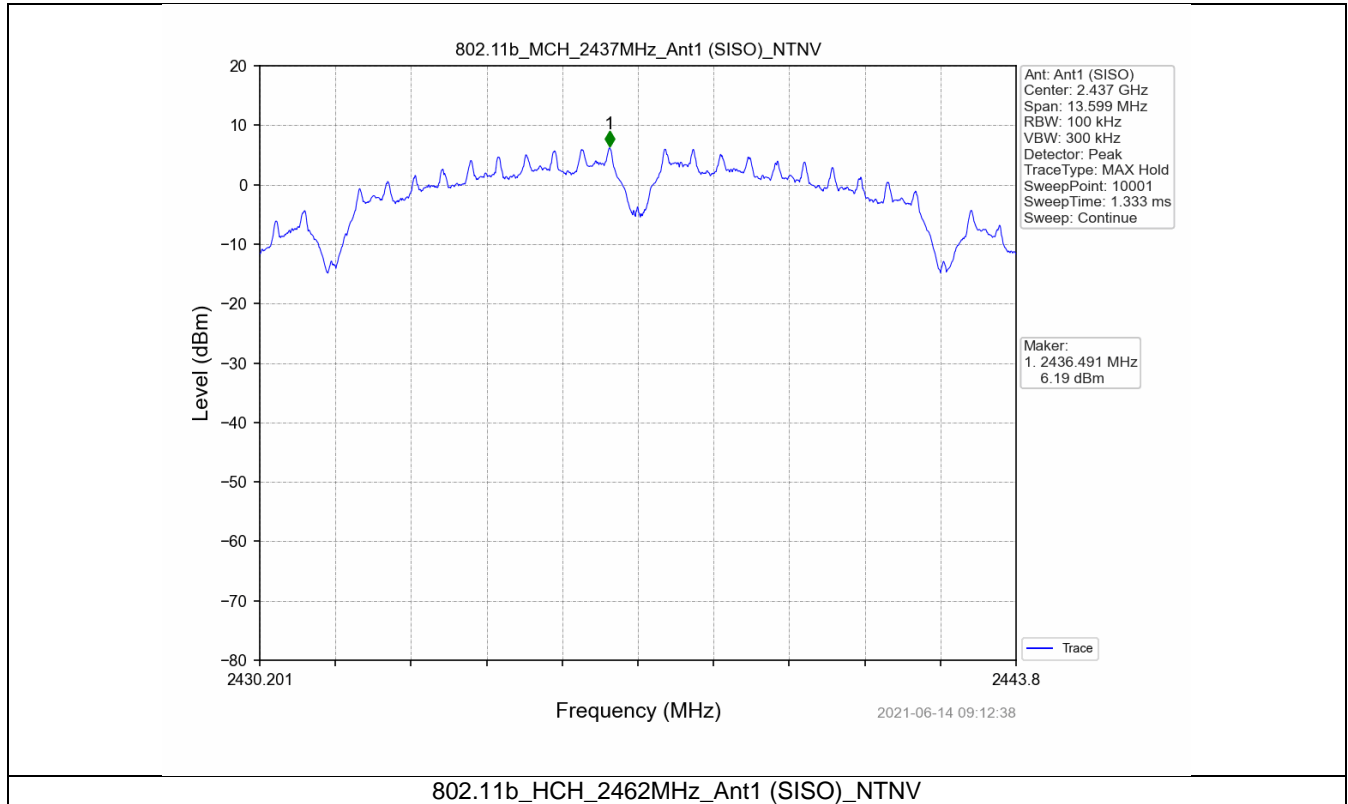
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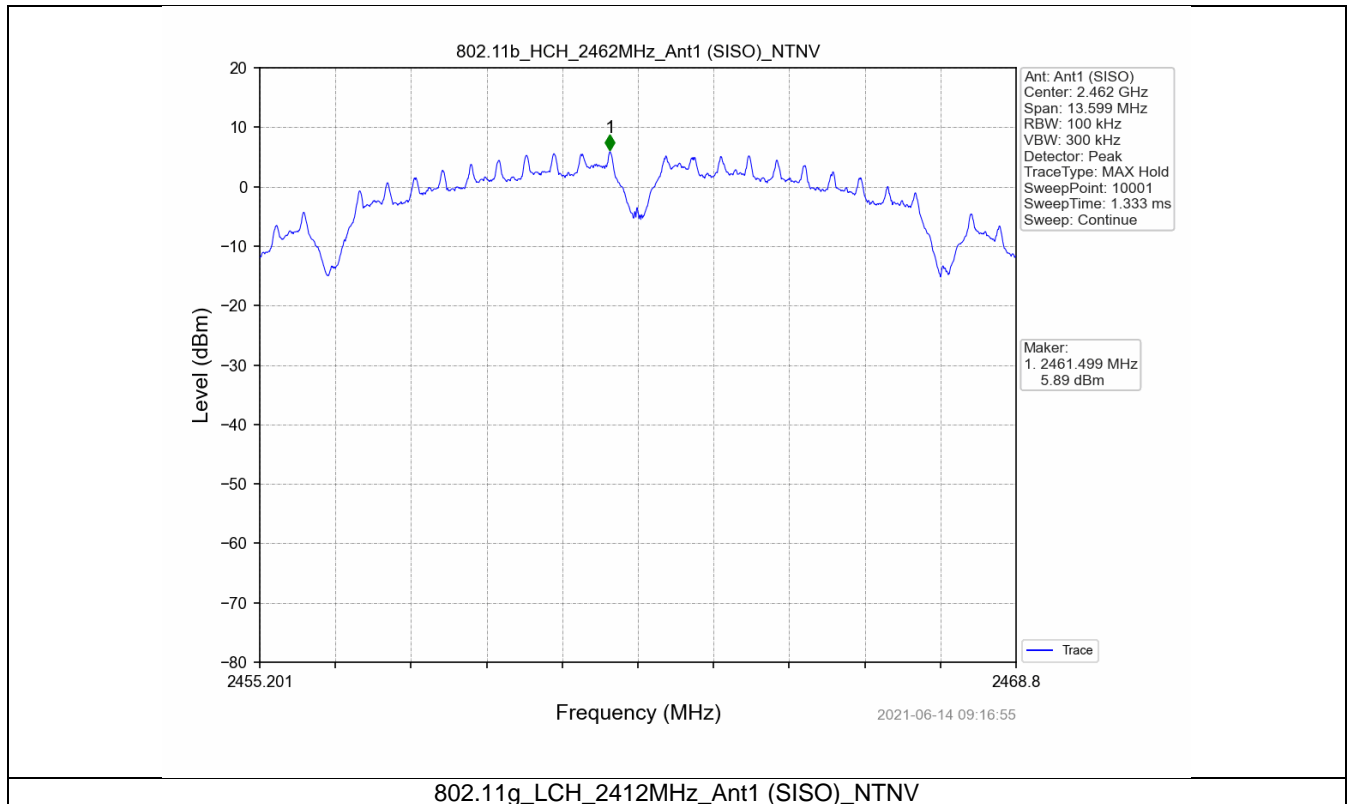
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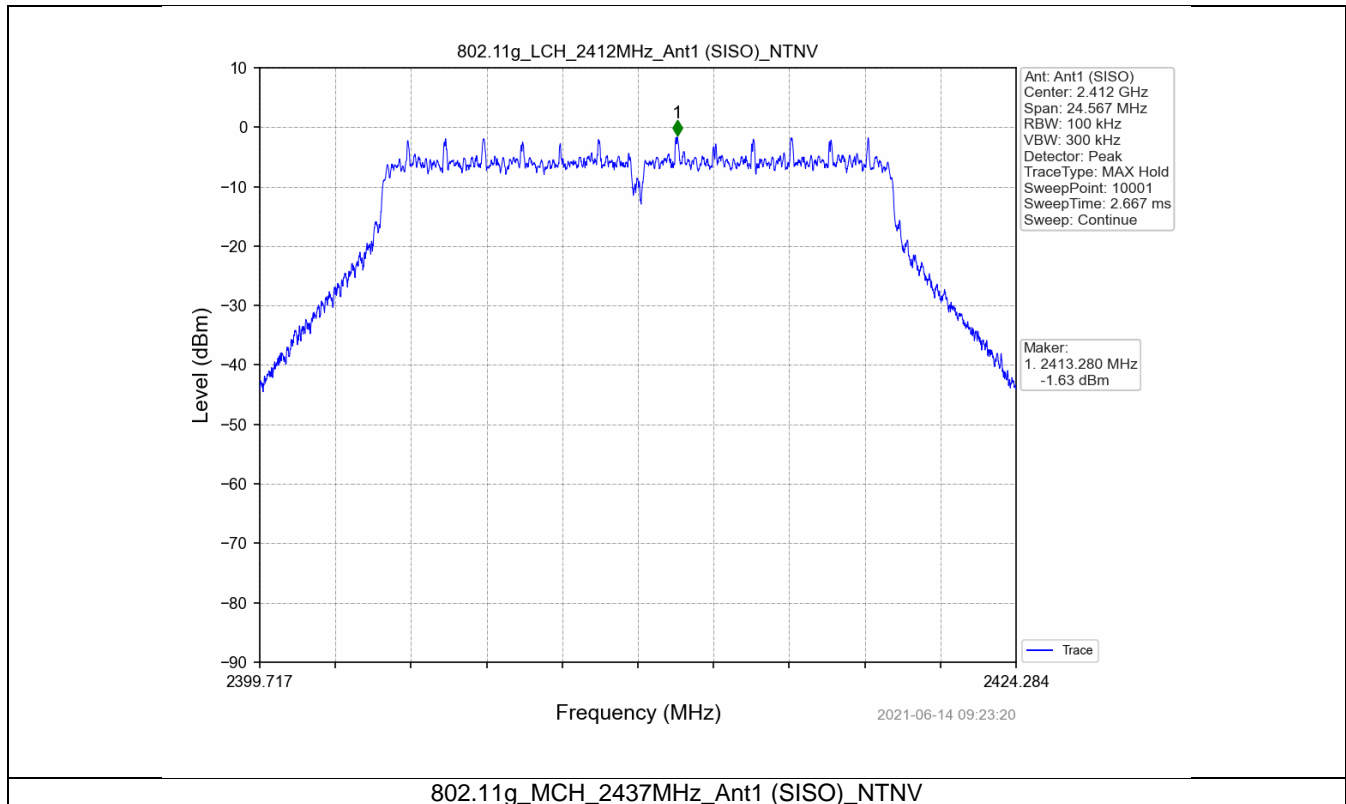
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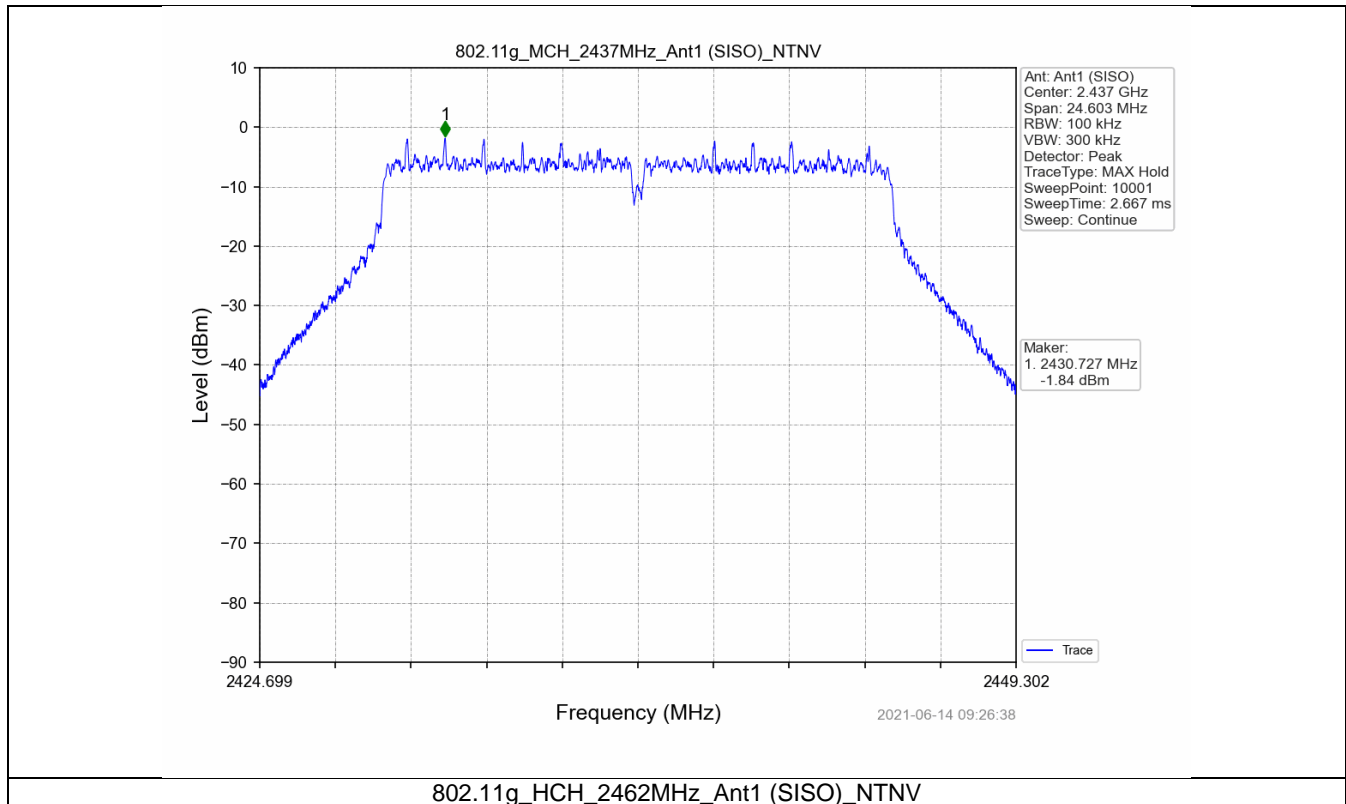
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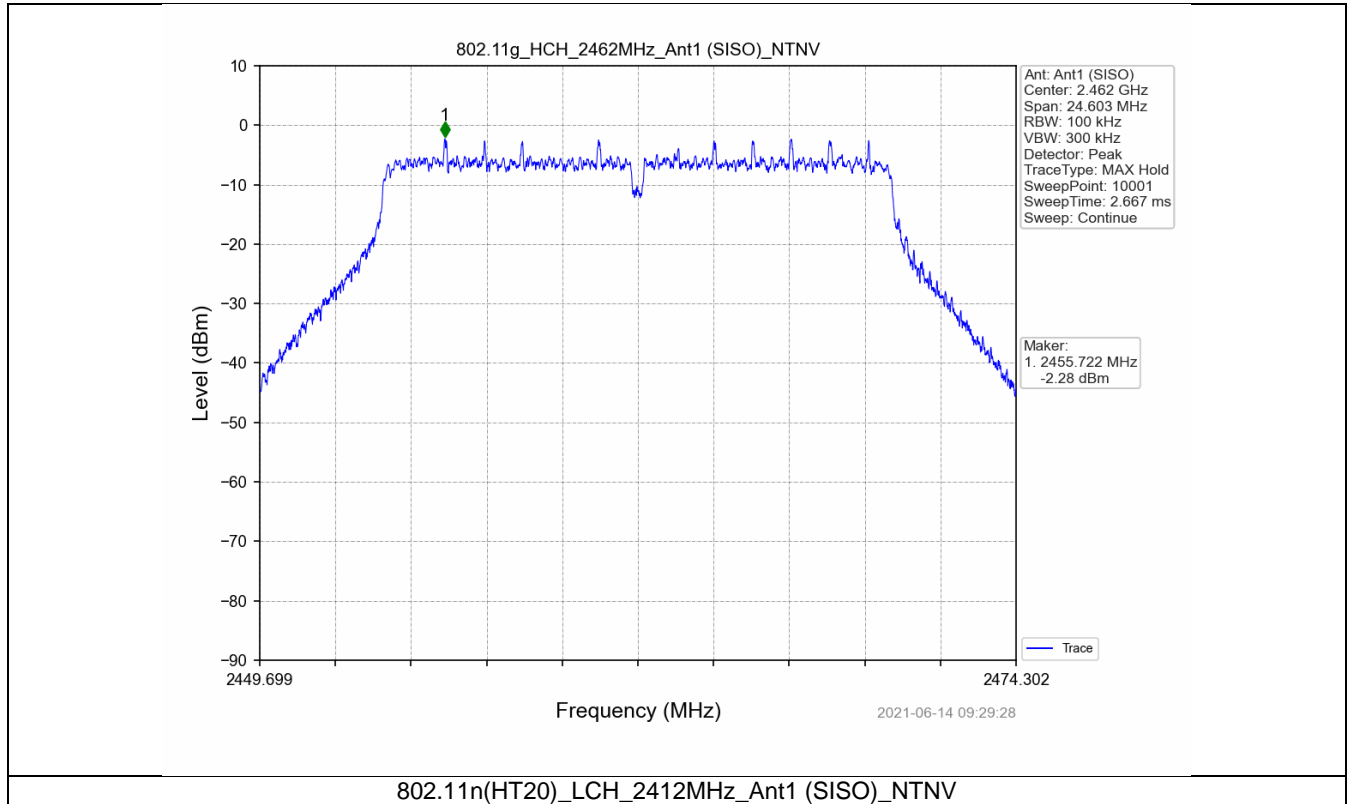
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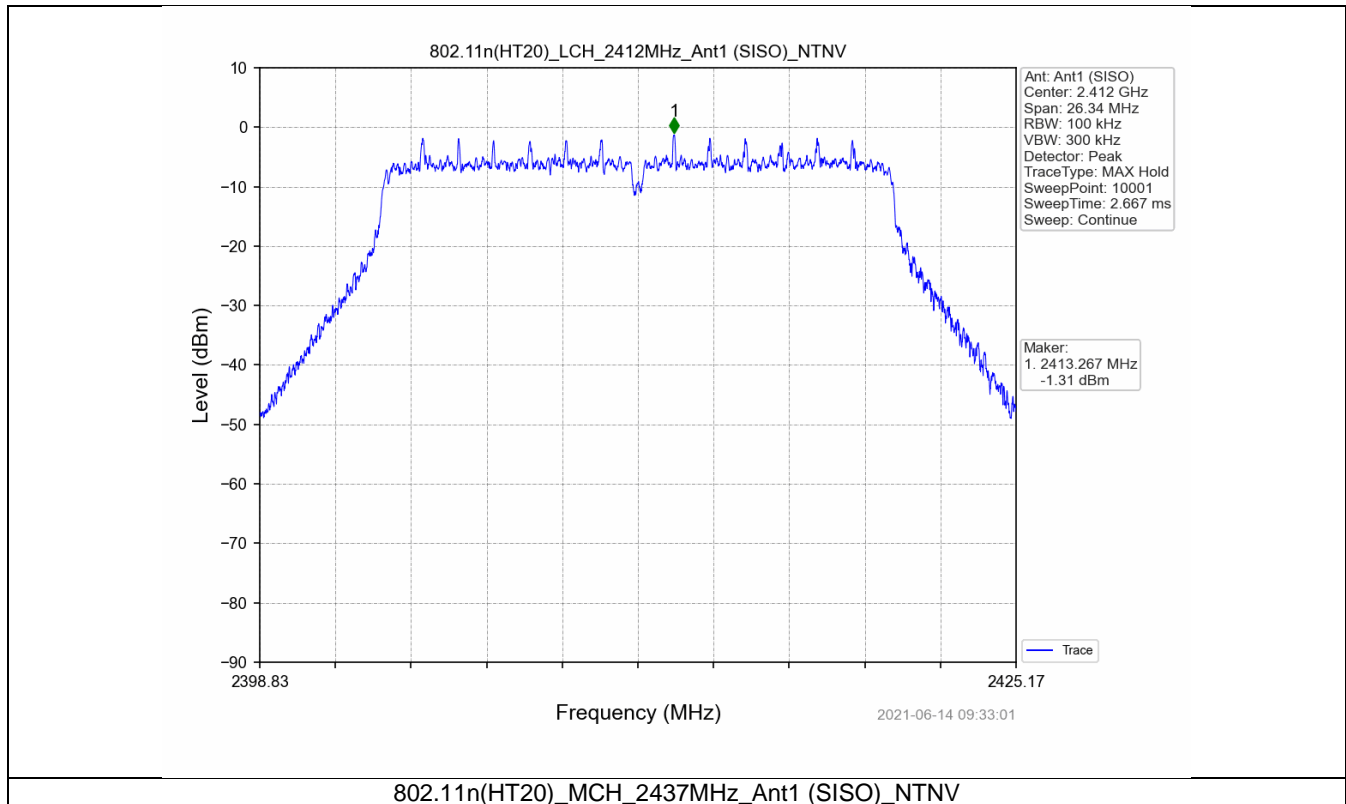
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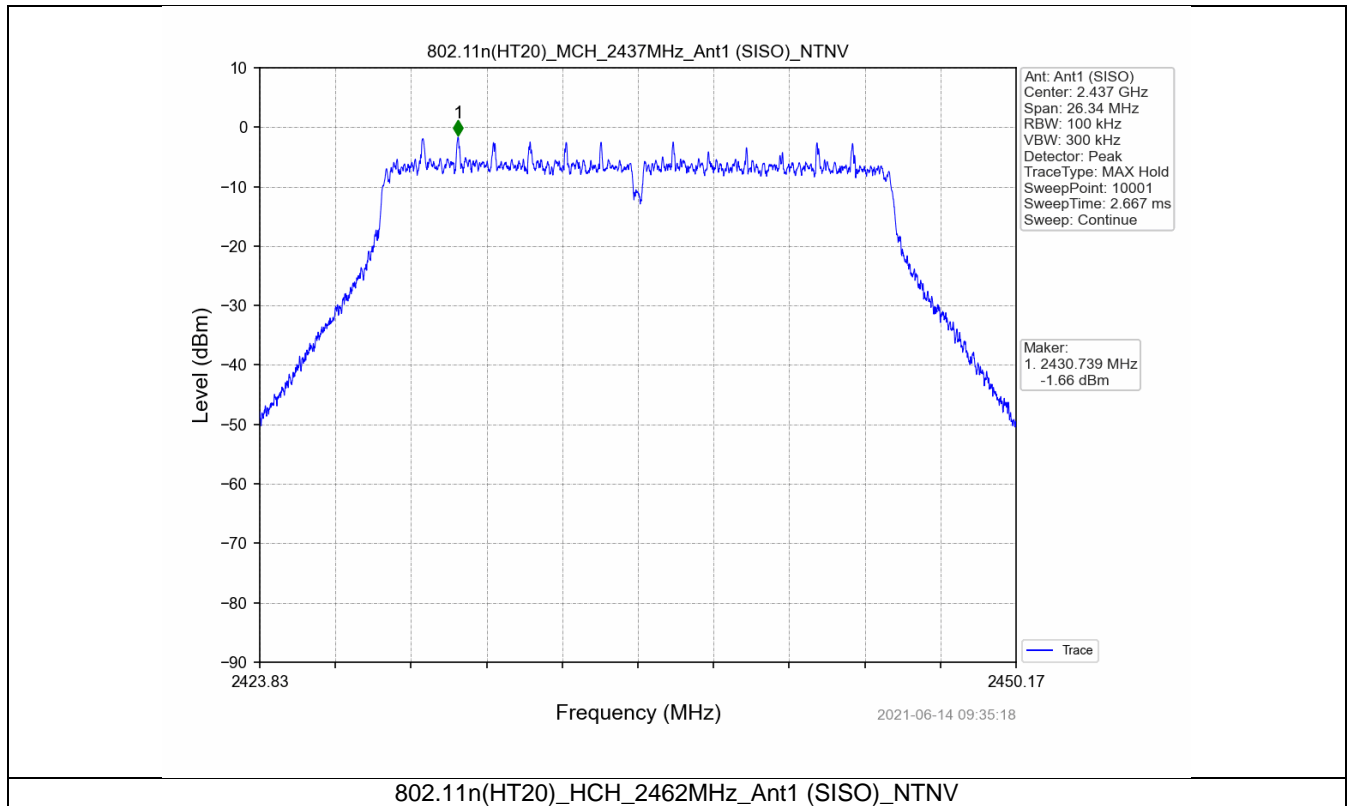
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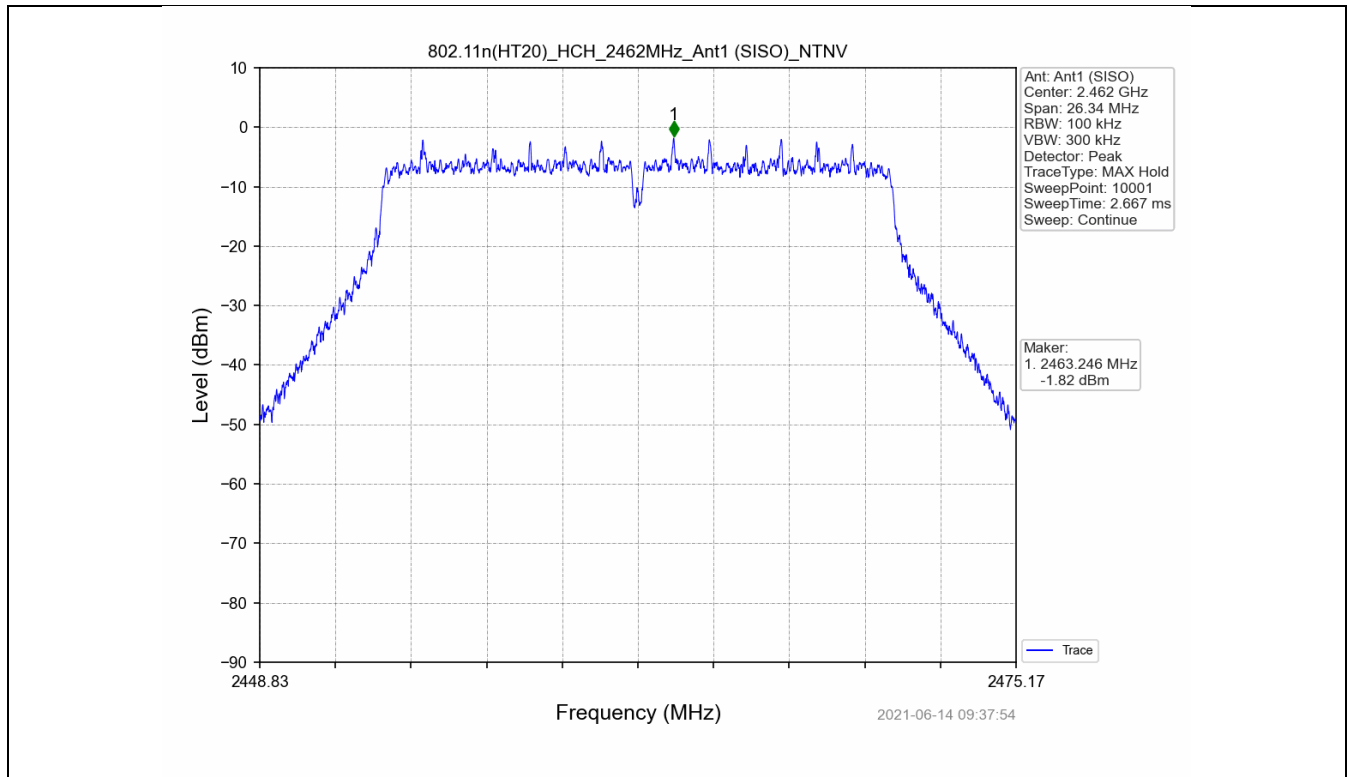
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
802.11g	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
802.11n (HT20)	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2

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.

Note2: Only for Report Use

5.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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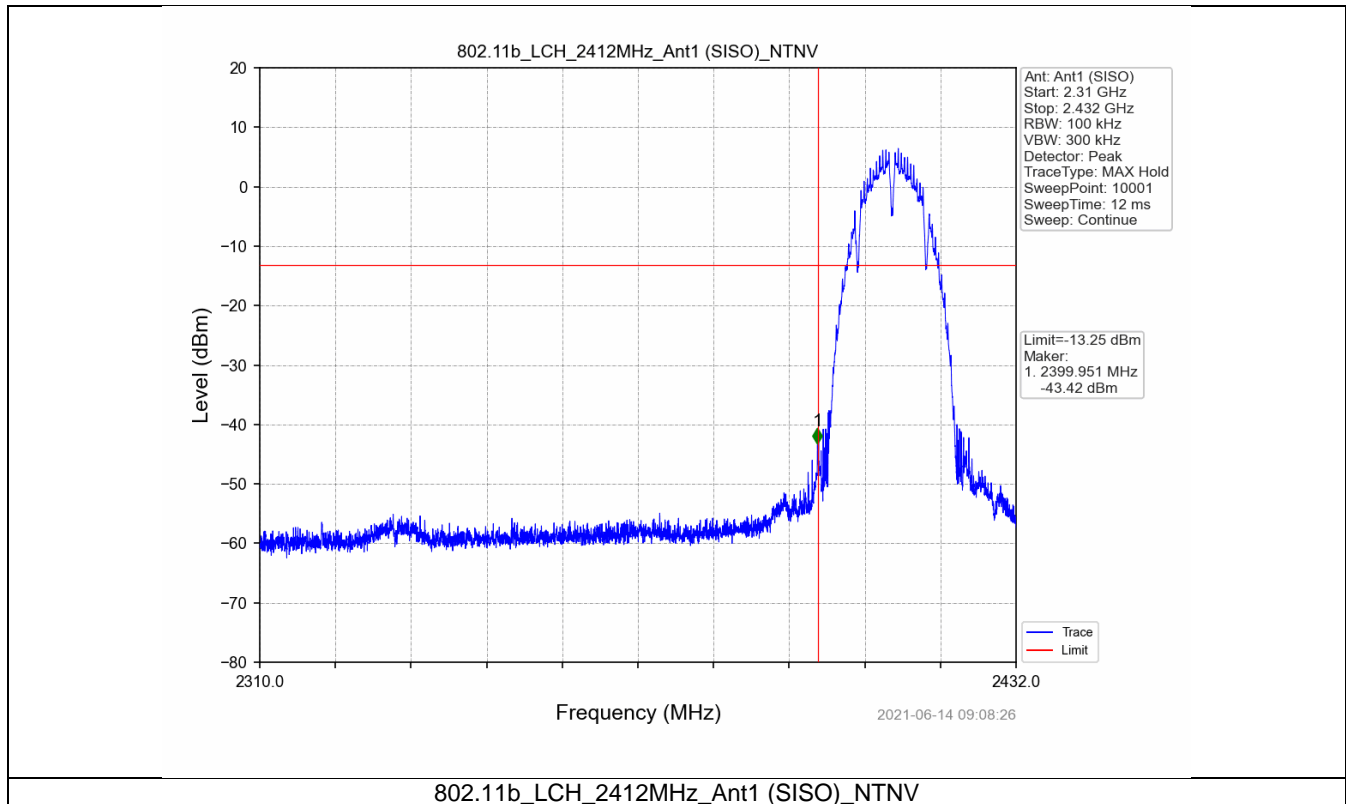
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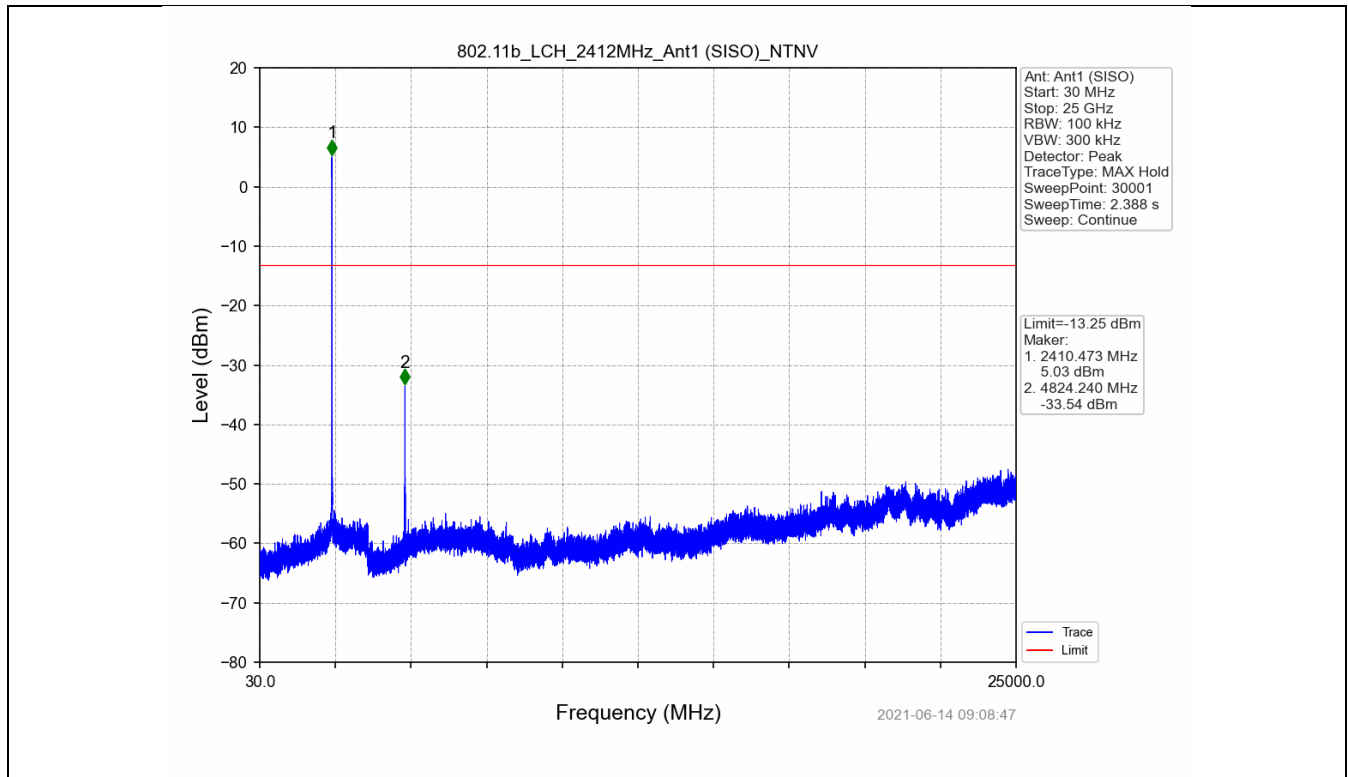


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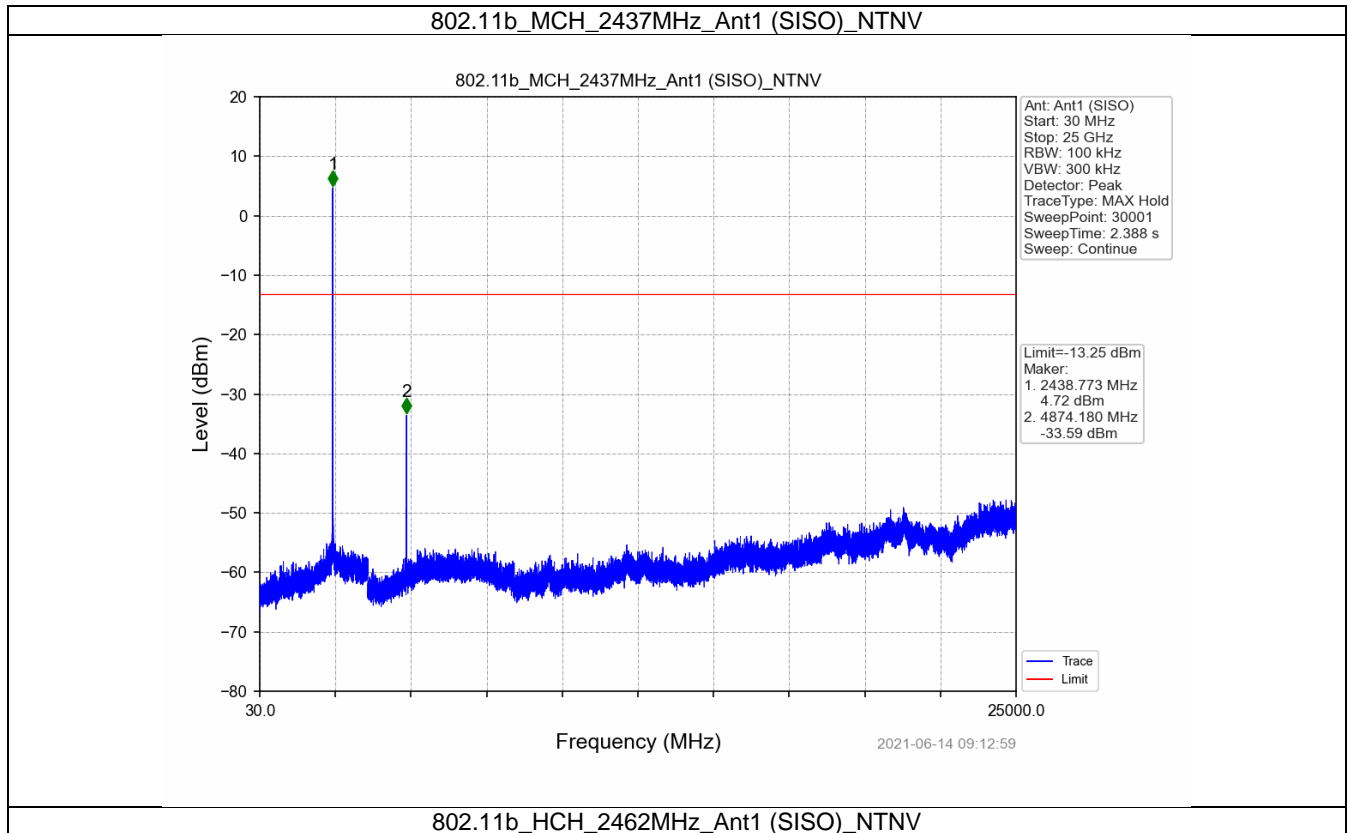
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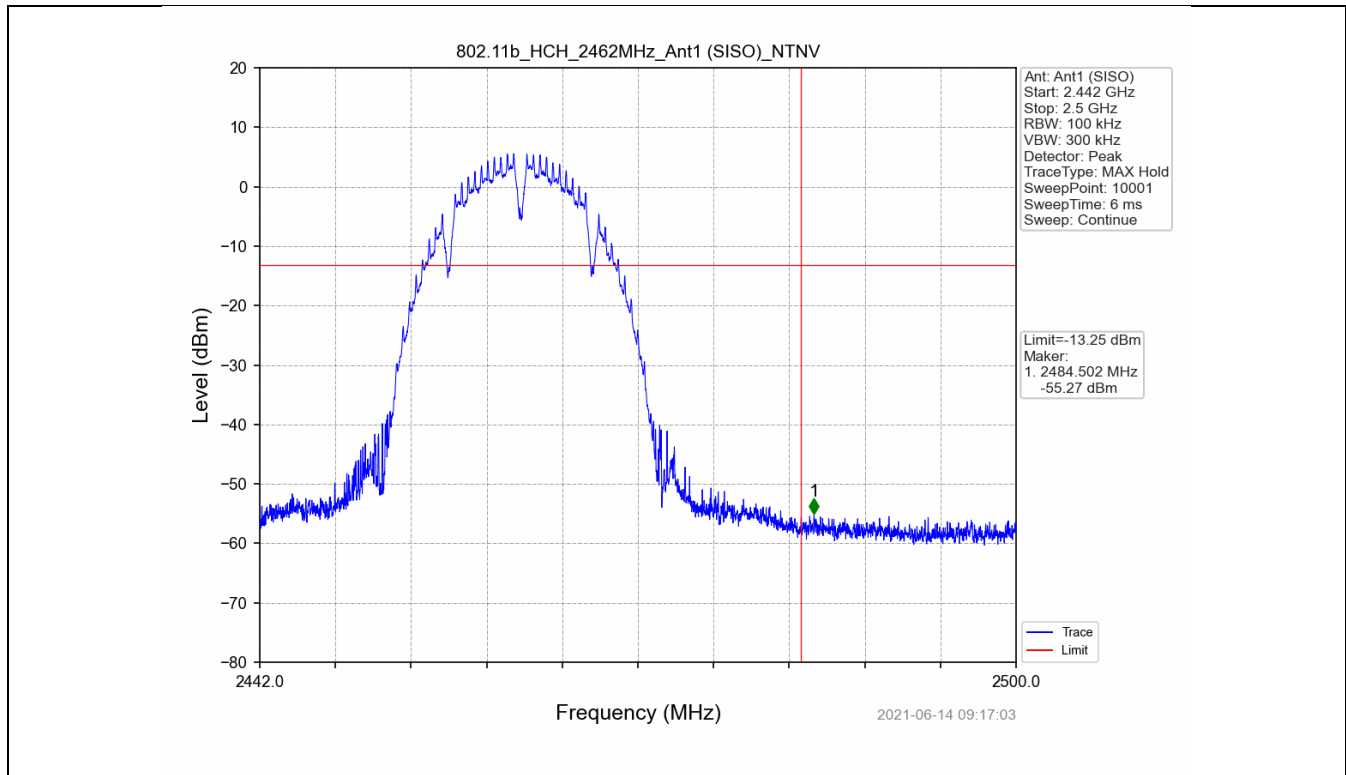
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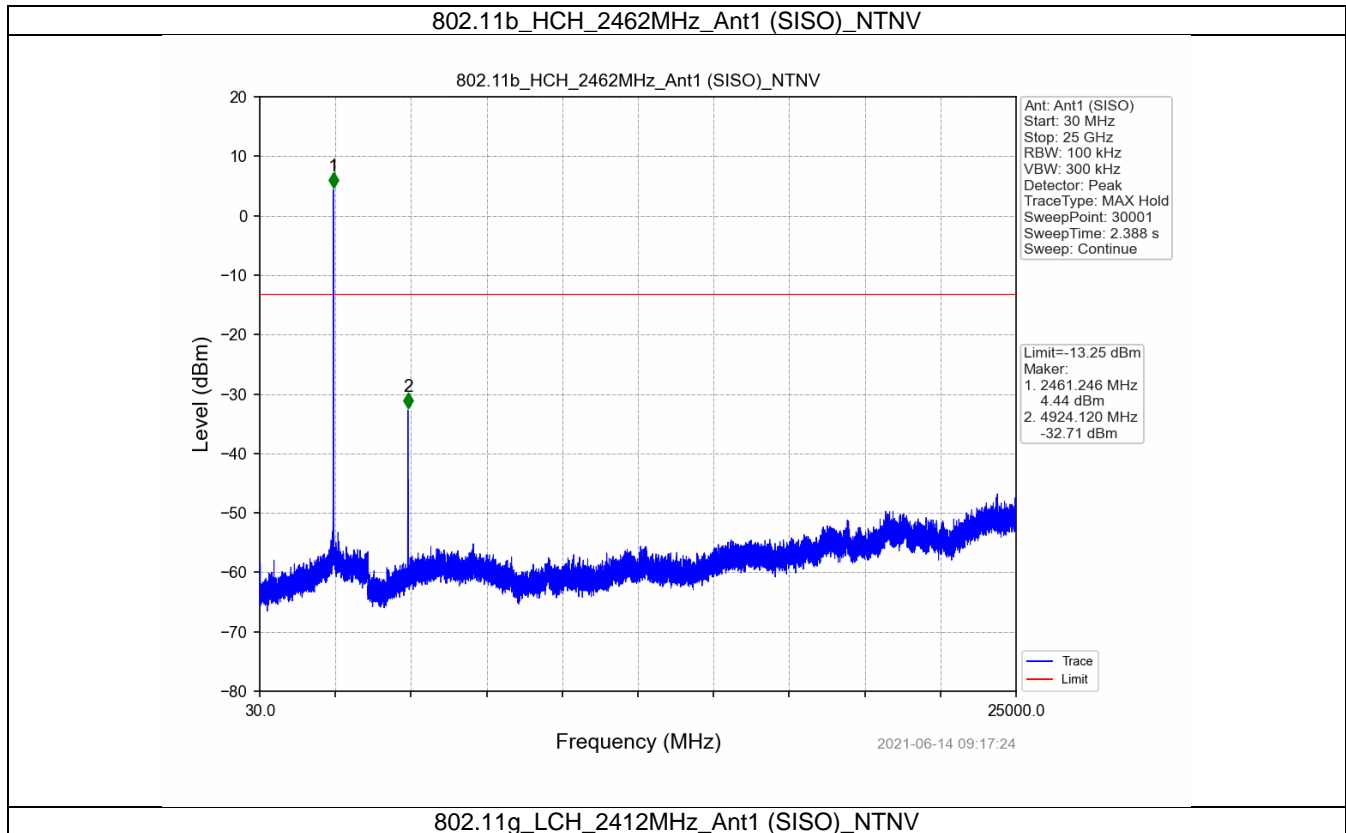
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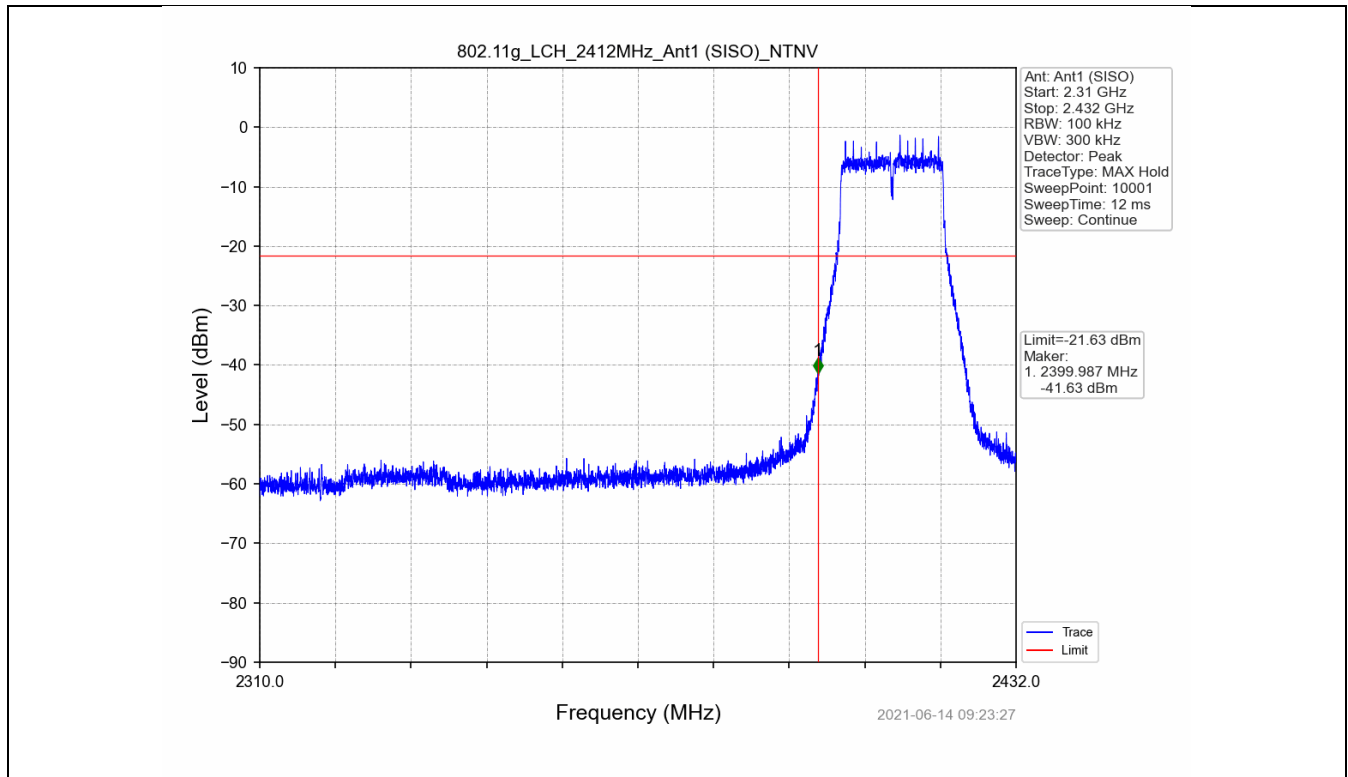
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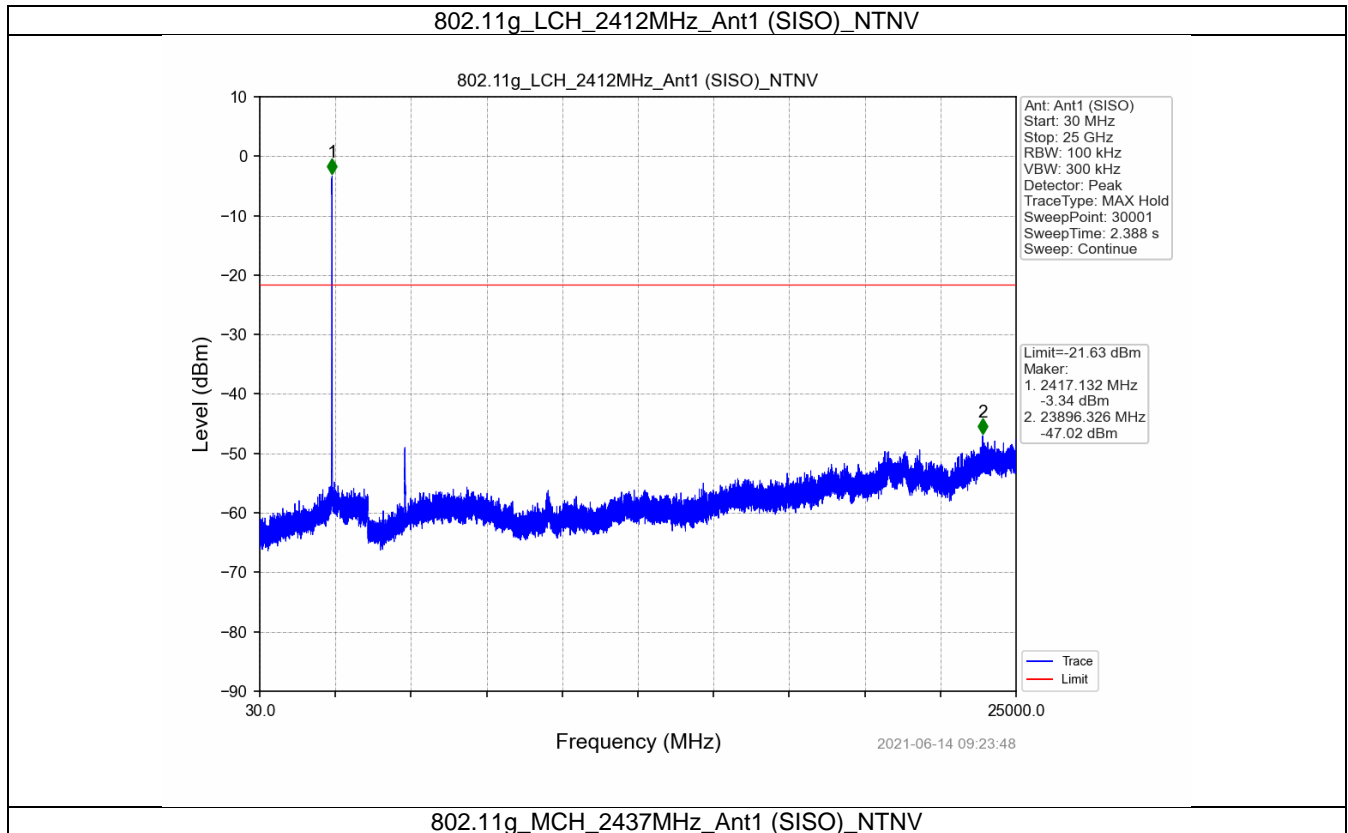
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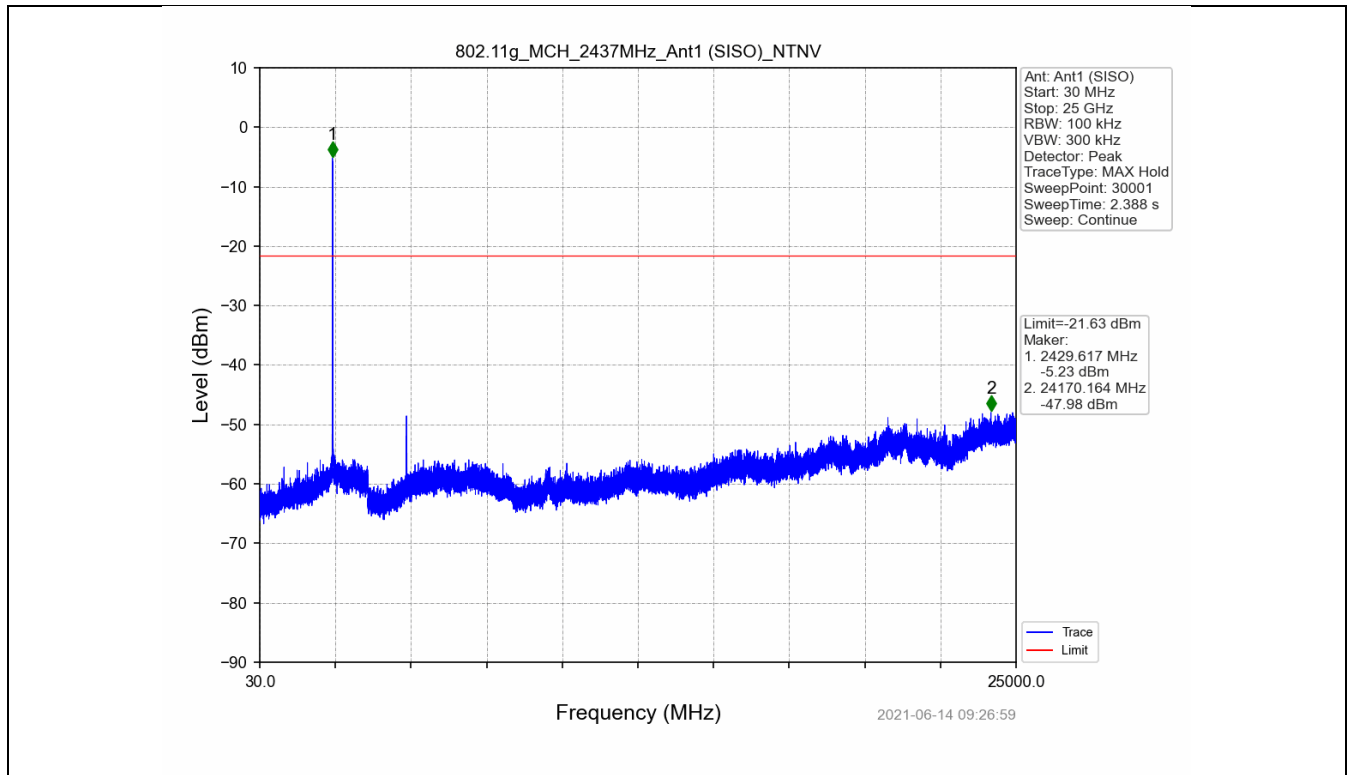
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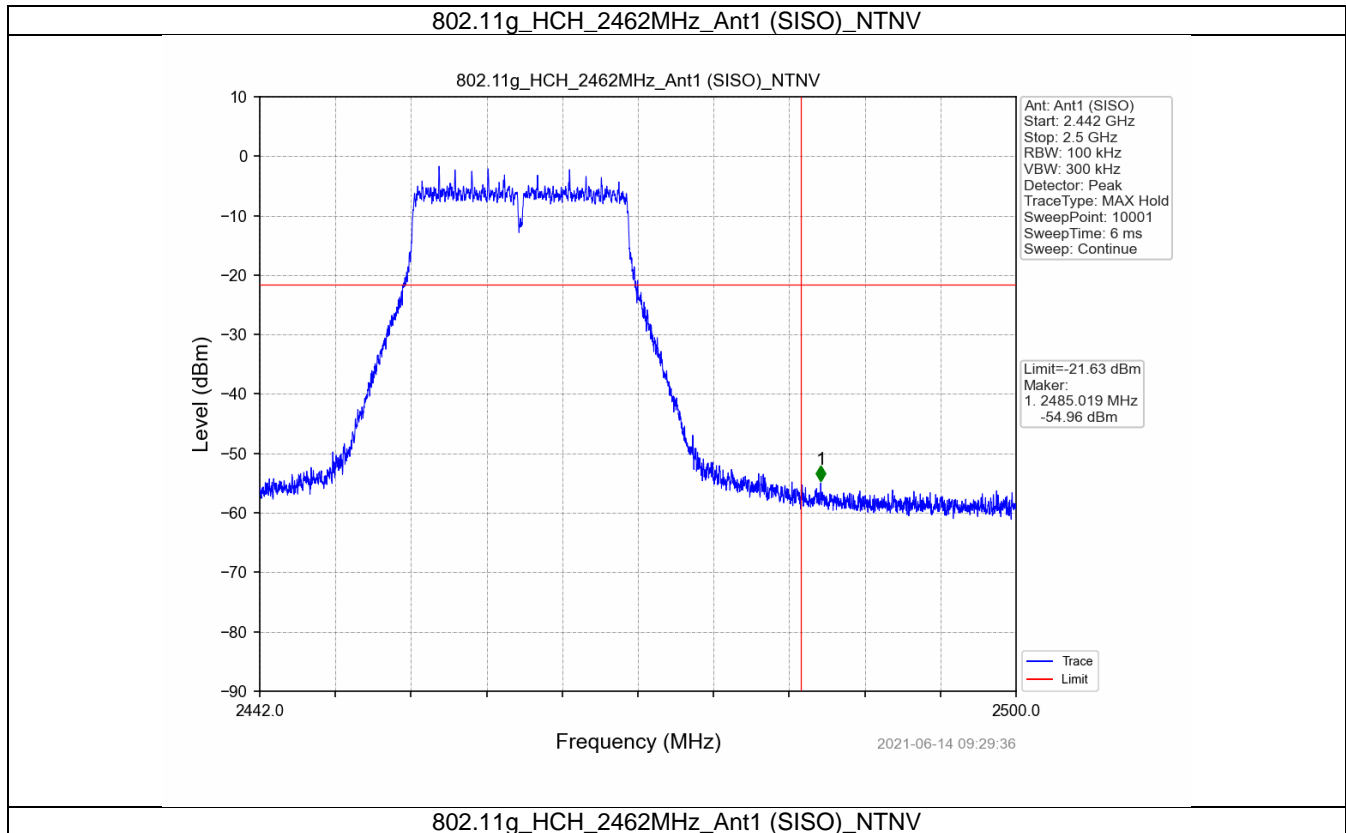
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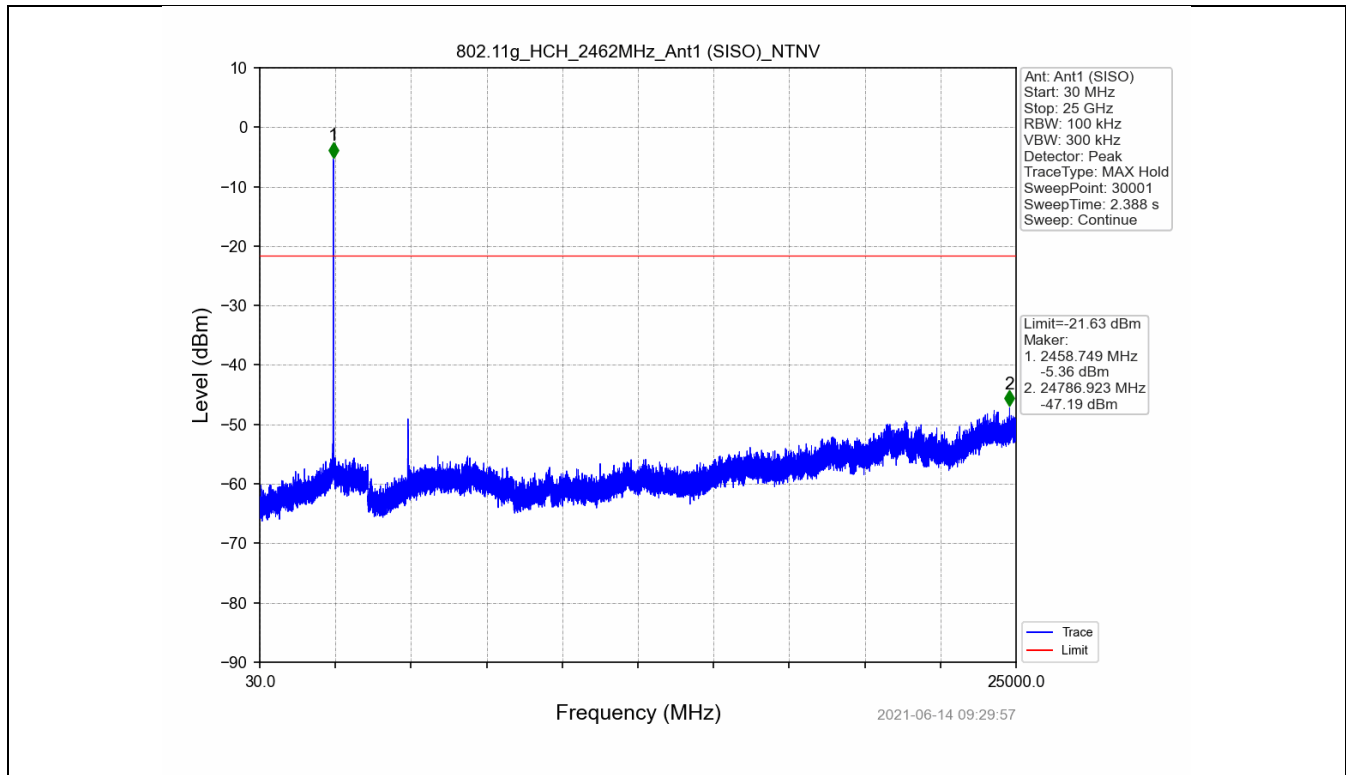
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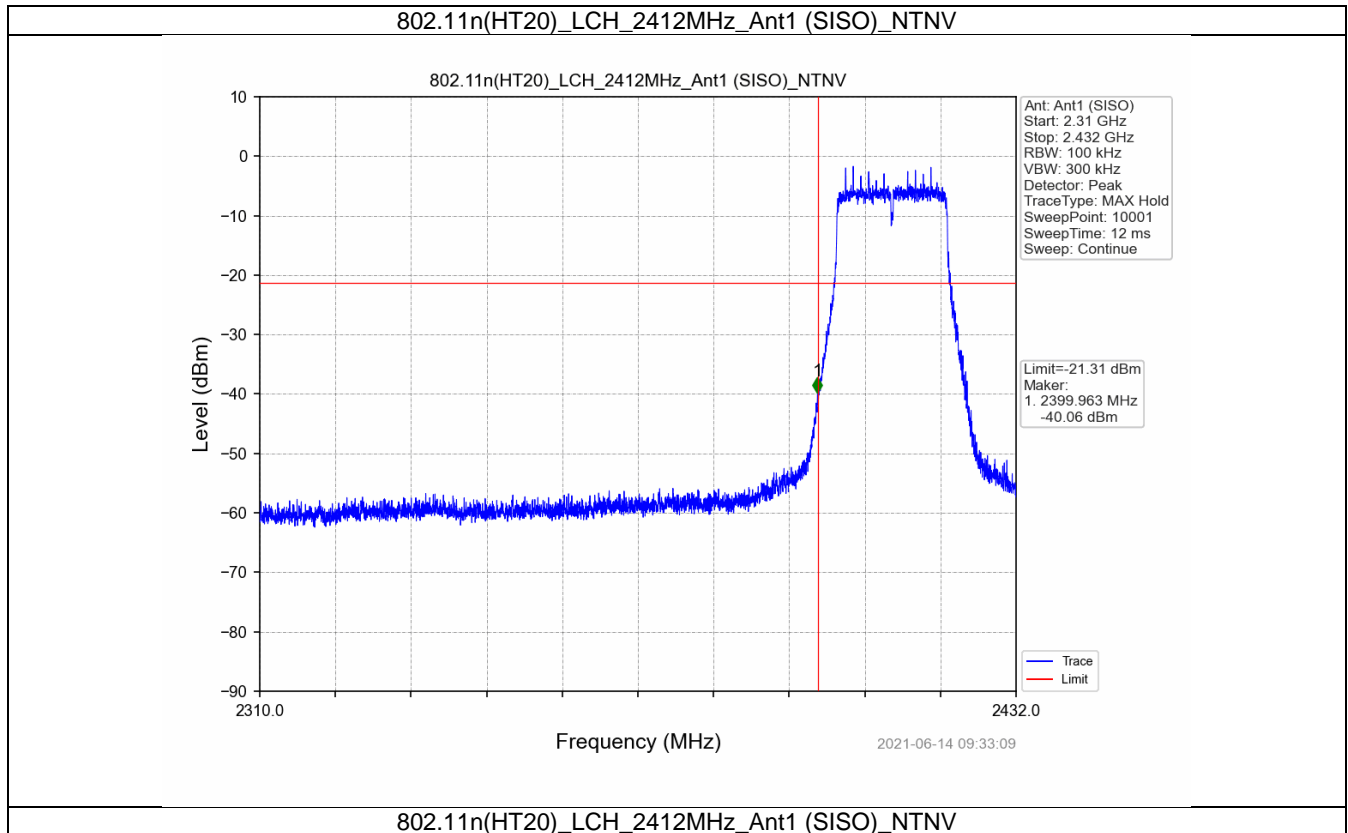
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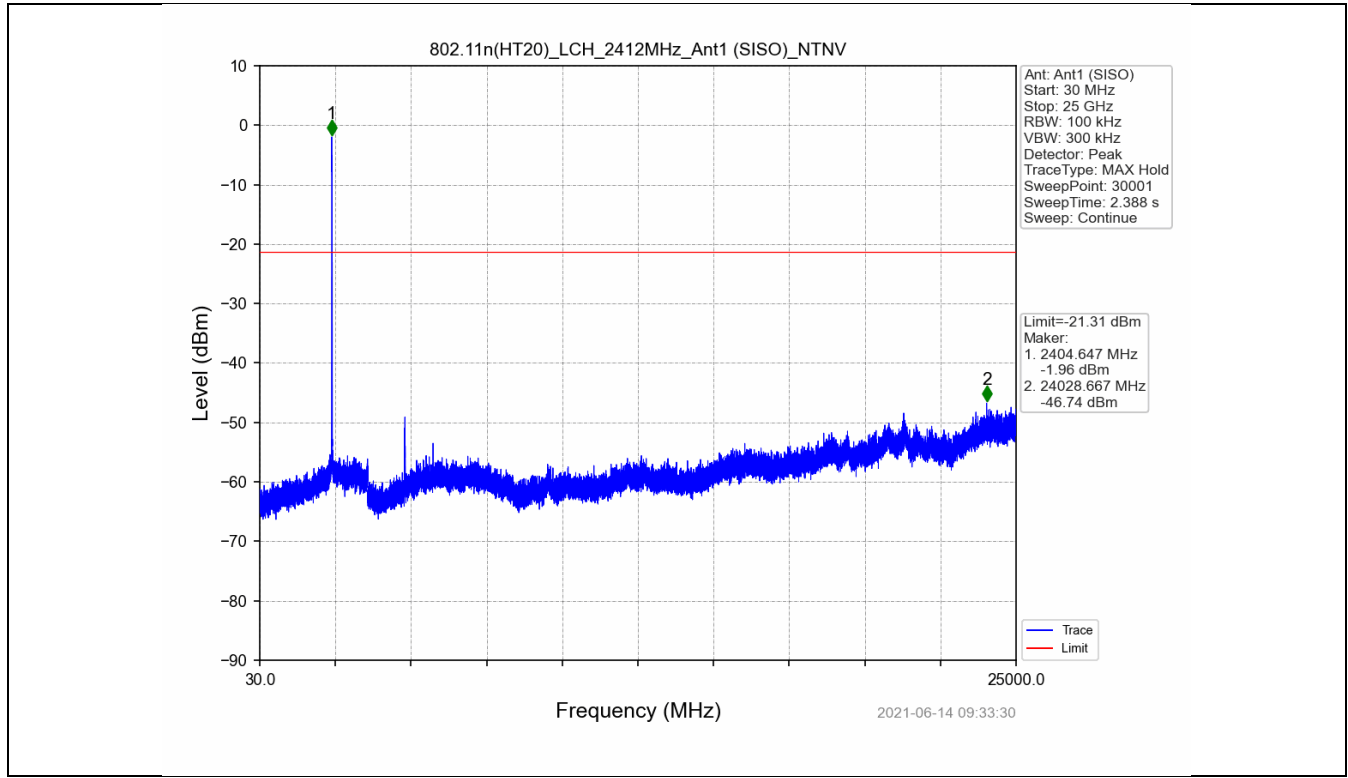
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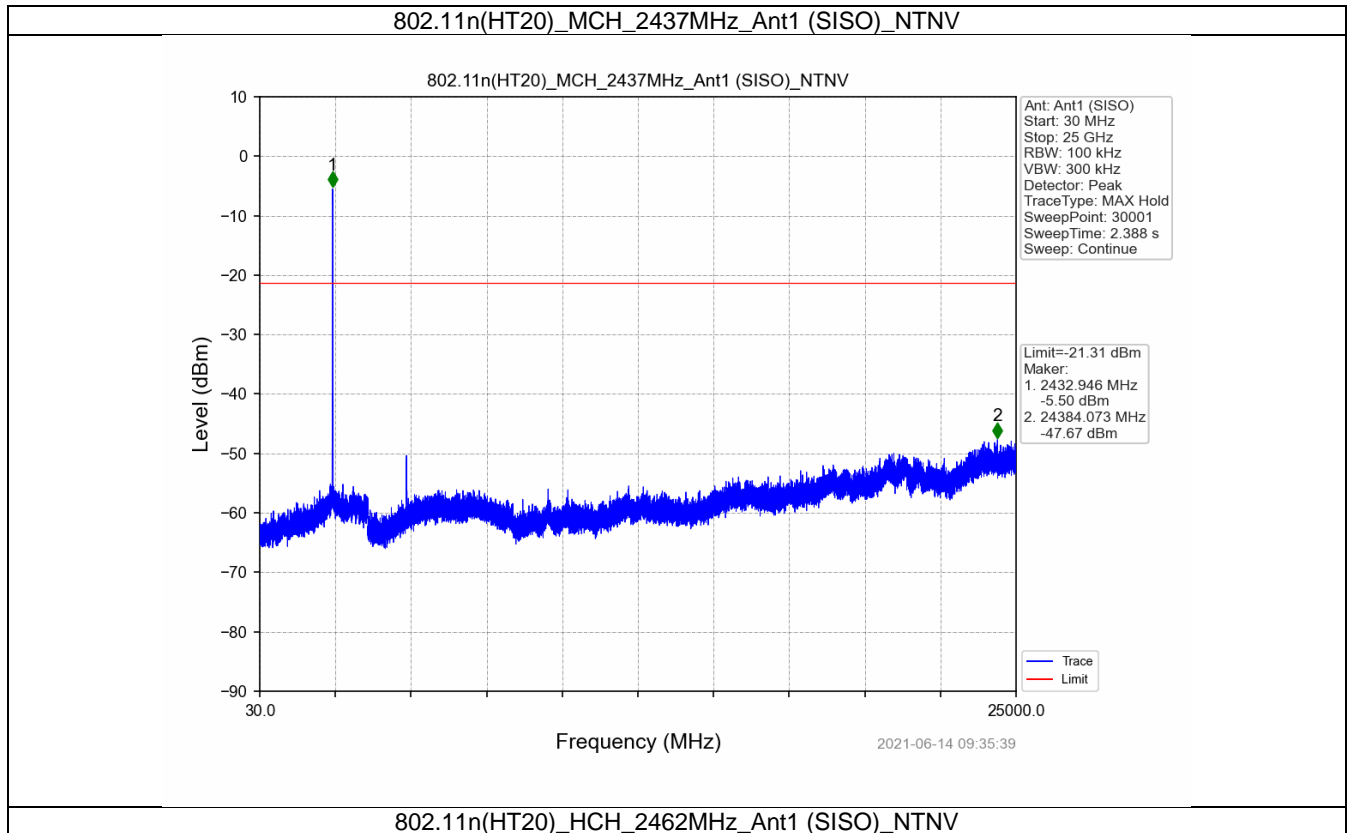
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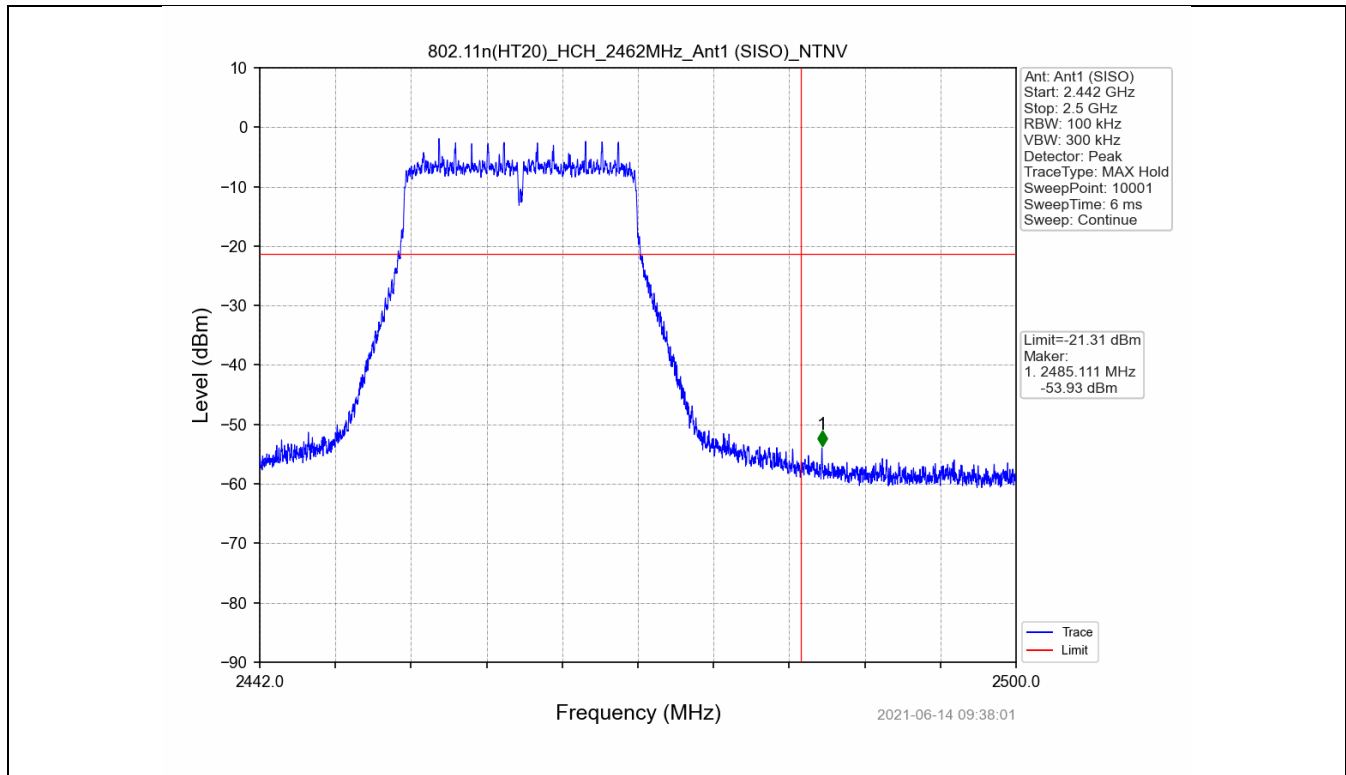
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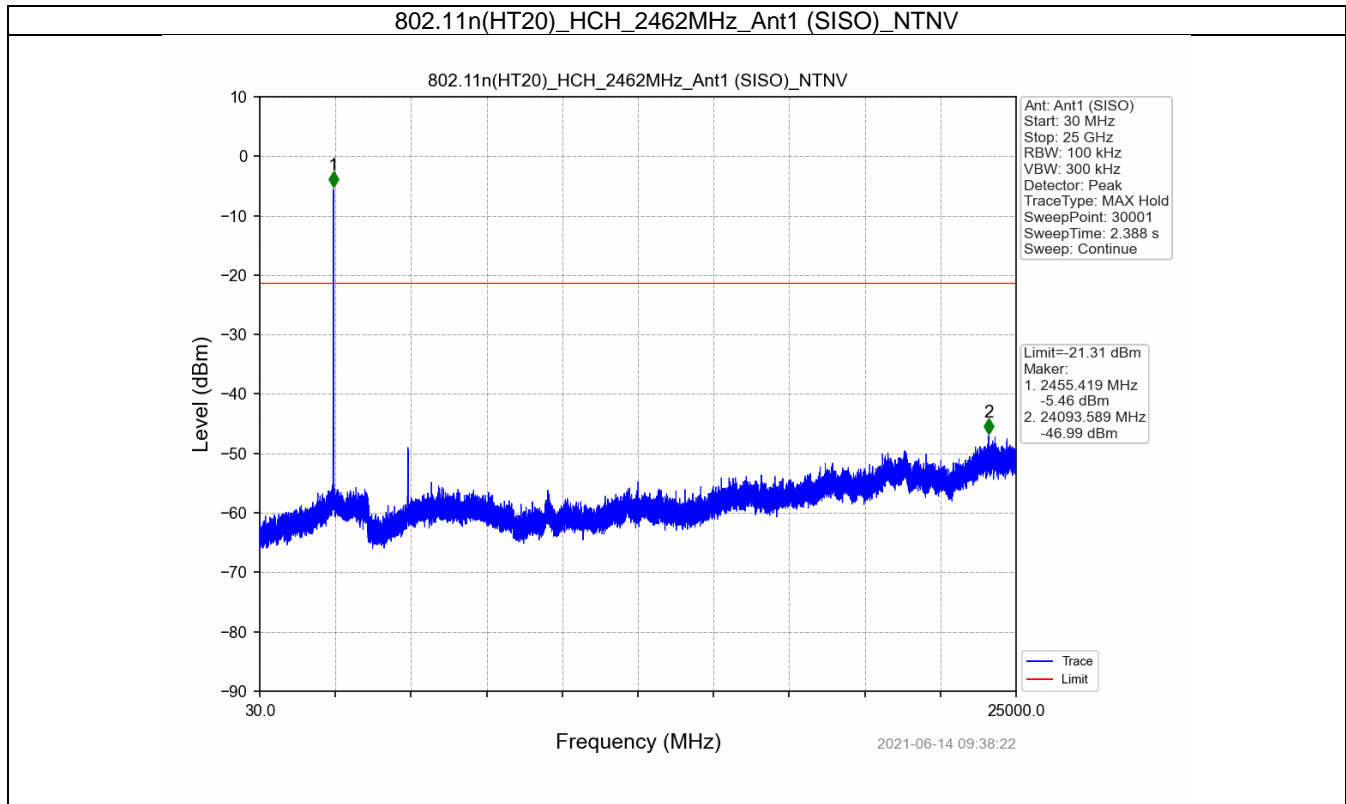


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