

Appendix B for KSCR220300031802

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	8.334	8.490	98.16	0.08	0.04
		2437	8.333	8.483	98.23	0.08	0.04
		2462	8.333	8.490	98.15	0.08	0.04
802.11g	SISO	2412	1.376	1.417	97.11	0.13	0.03
		2437	1.376	1.417	97.11	0.13	0.03
		2462	1.376	1.417	97.11	0.13	0.03
802.11n (HT20)	SISO	2412	1.288	1.329	96.91	0.14	0.04
		2437	1.288	1.329	96.91	0.14	0.04
		2462	1.288	1.329	96.91	0.14	0.03
802.11n (HT40)	SISO	2422	0.640	0.682	93.84	0.28	0.03
		2437	0.640	0.682	93.84	0.28	0.03
		2452	0.640	0.681	93.98	0.27	0.03

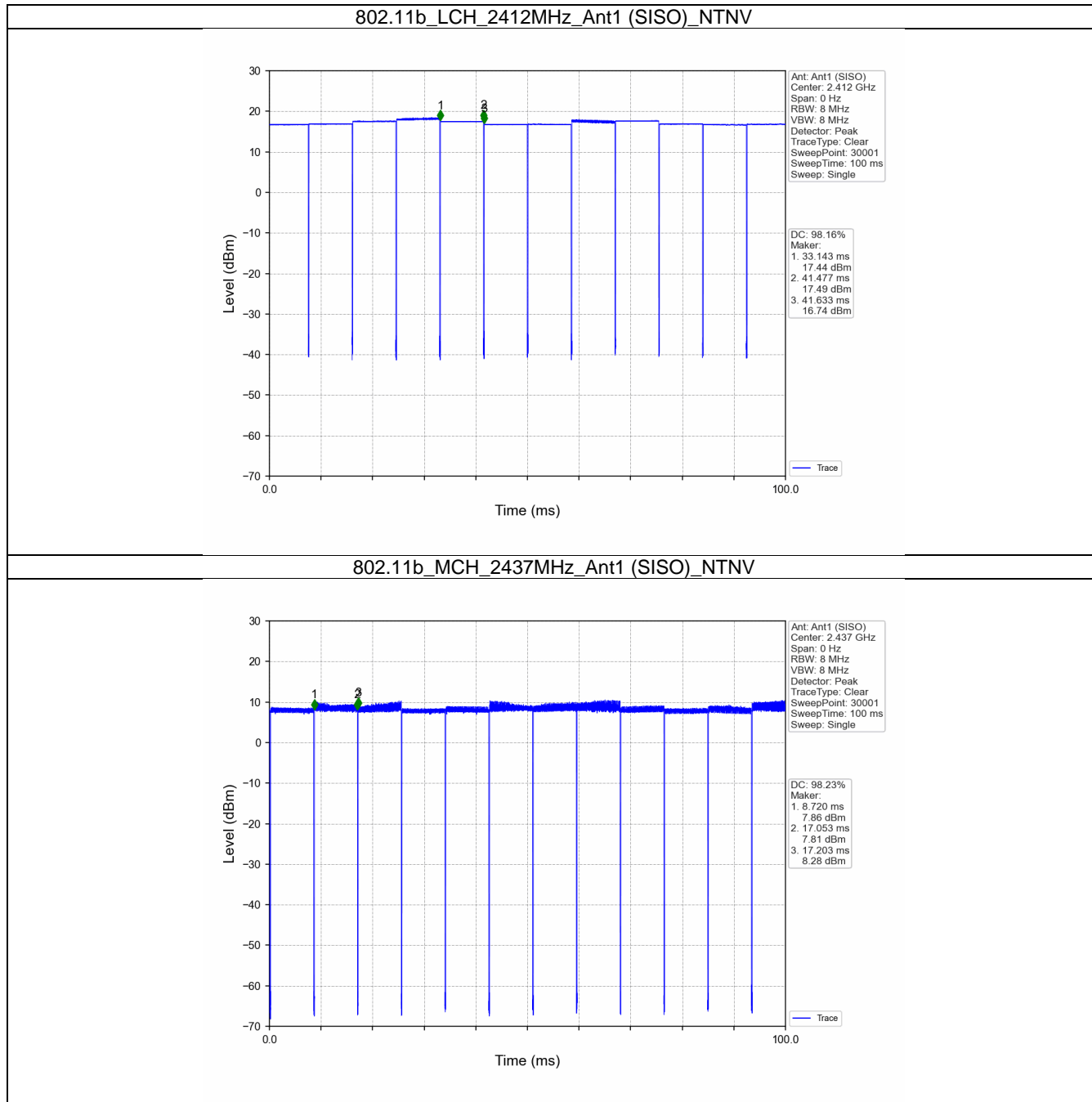


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1.1.2 Test Graph



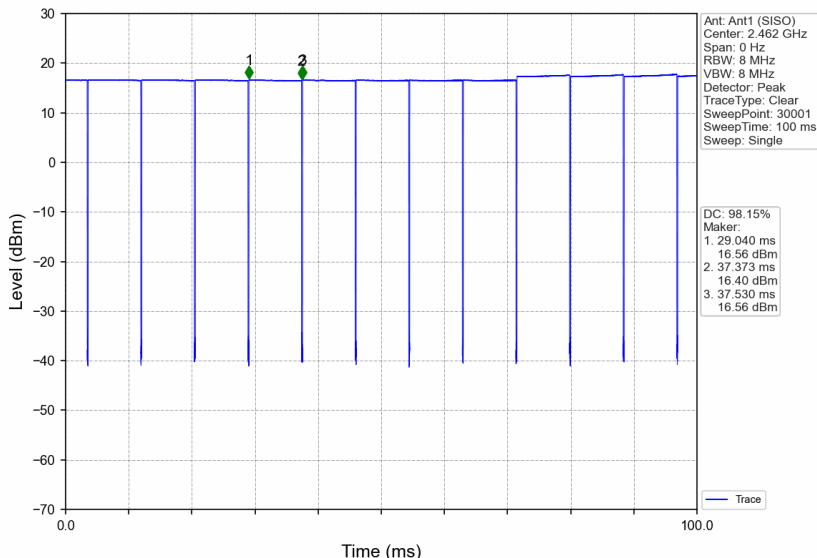
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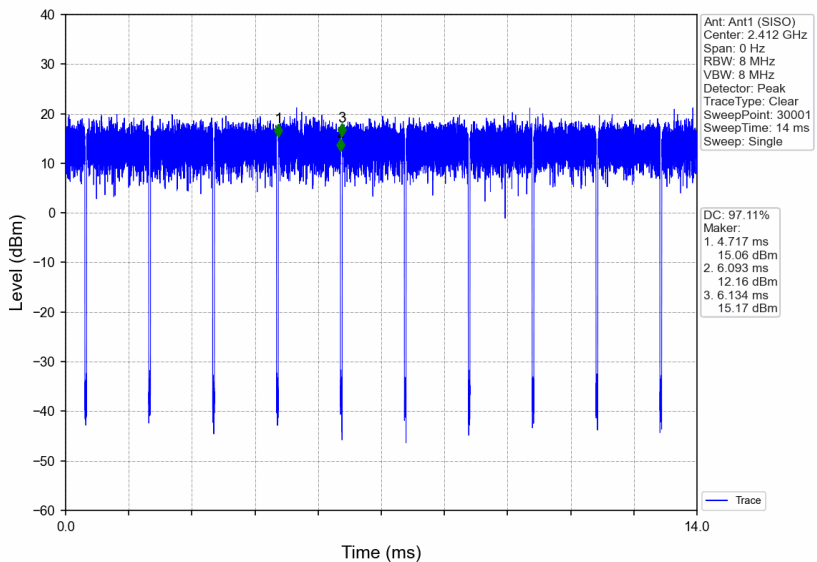
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

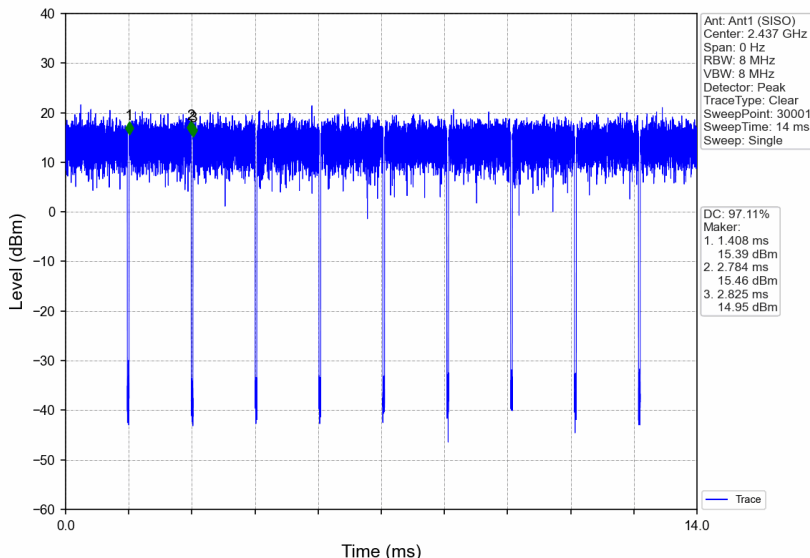


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

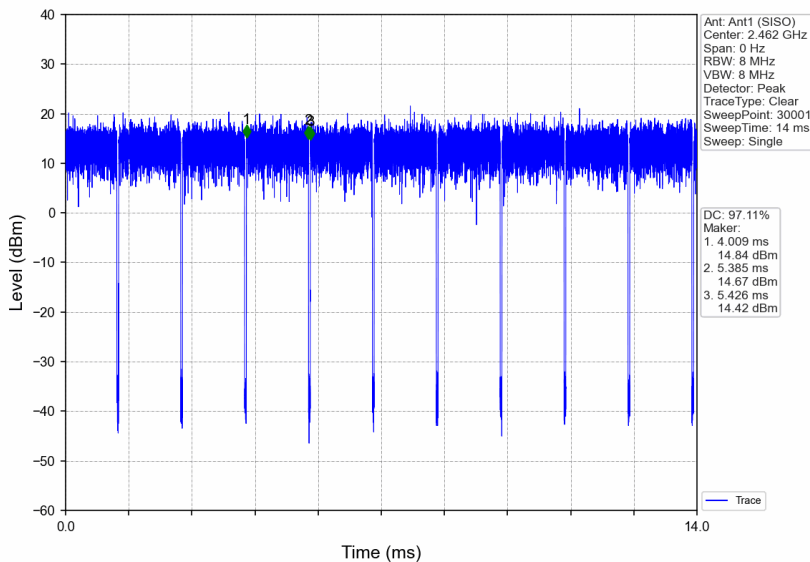


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

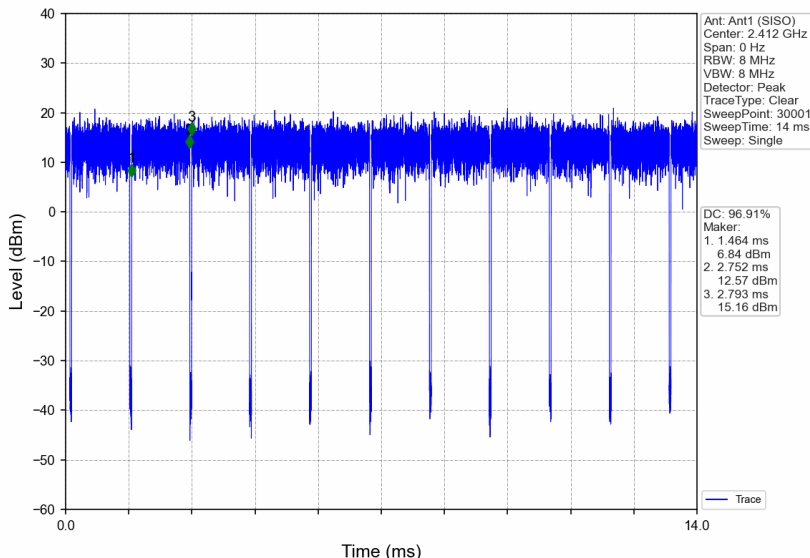


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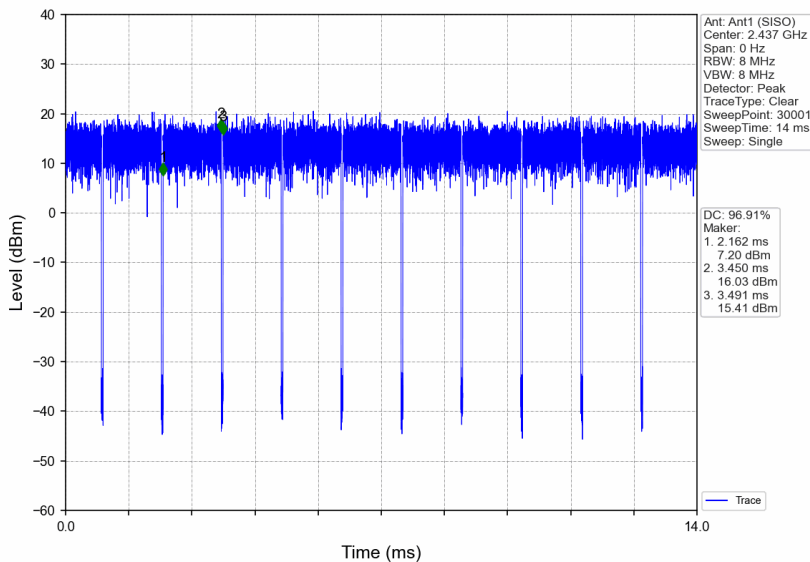
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

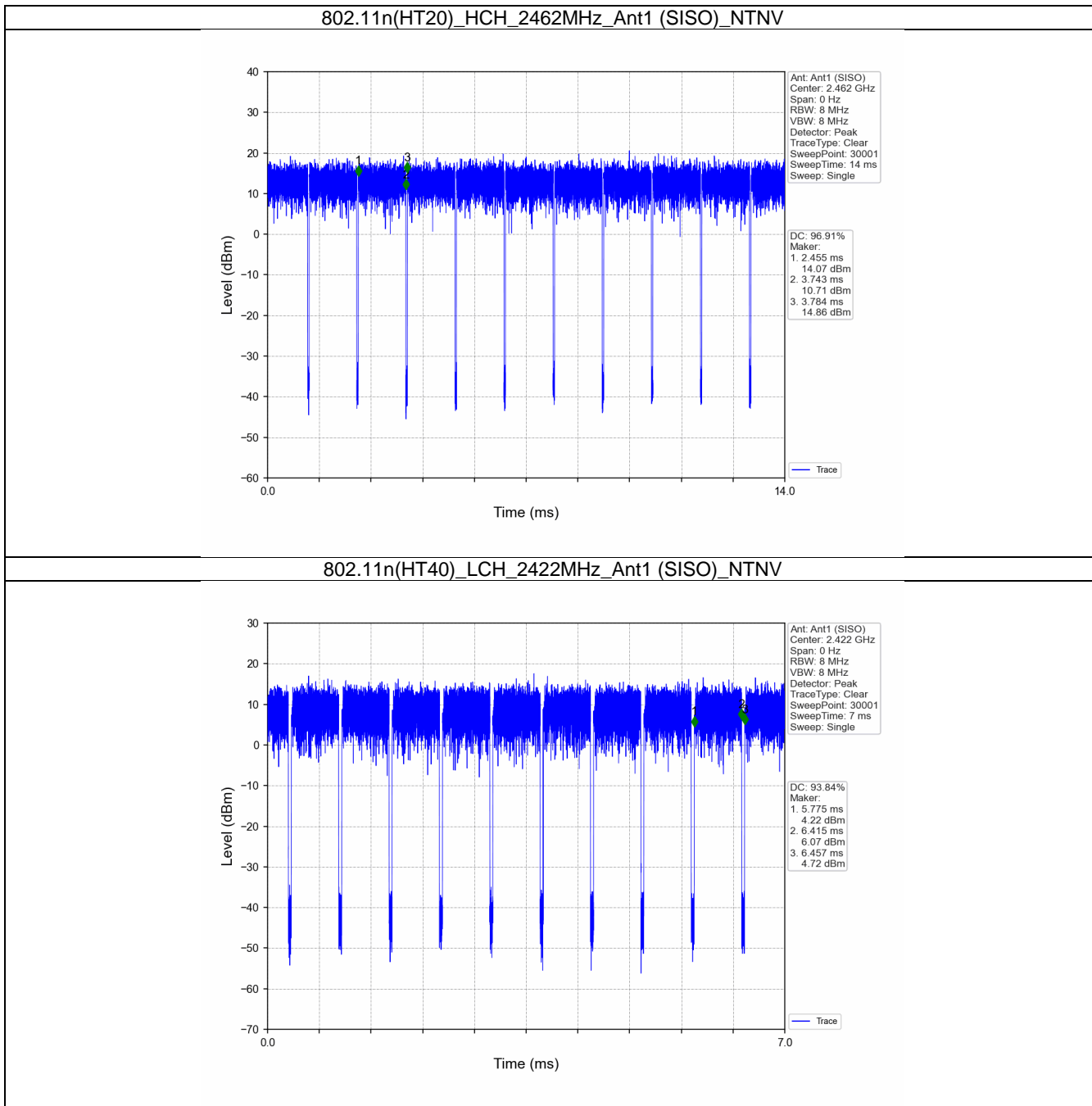


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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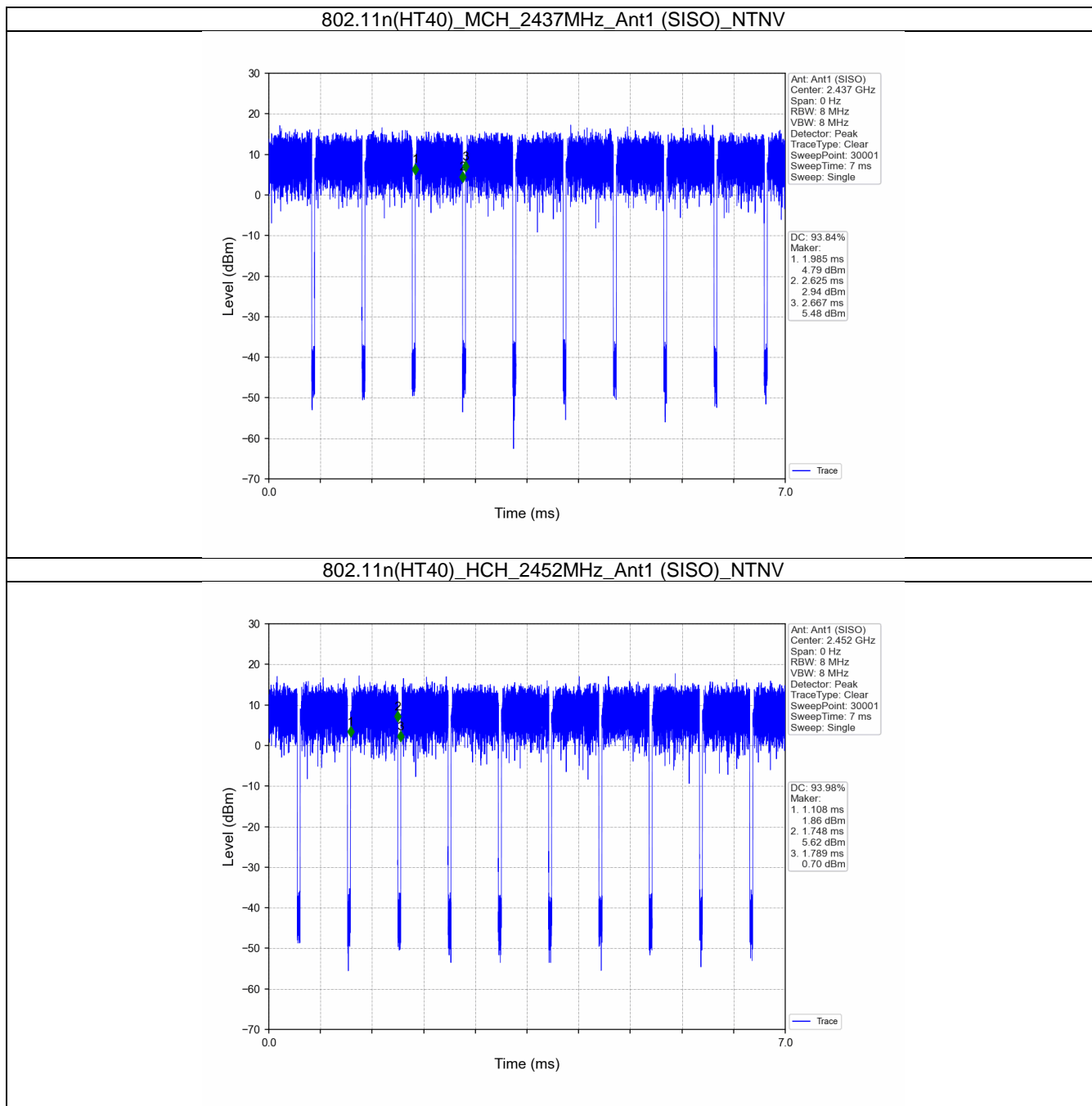
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

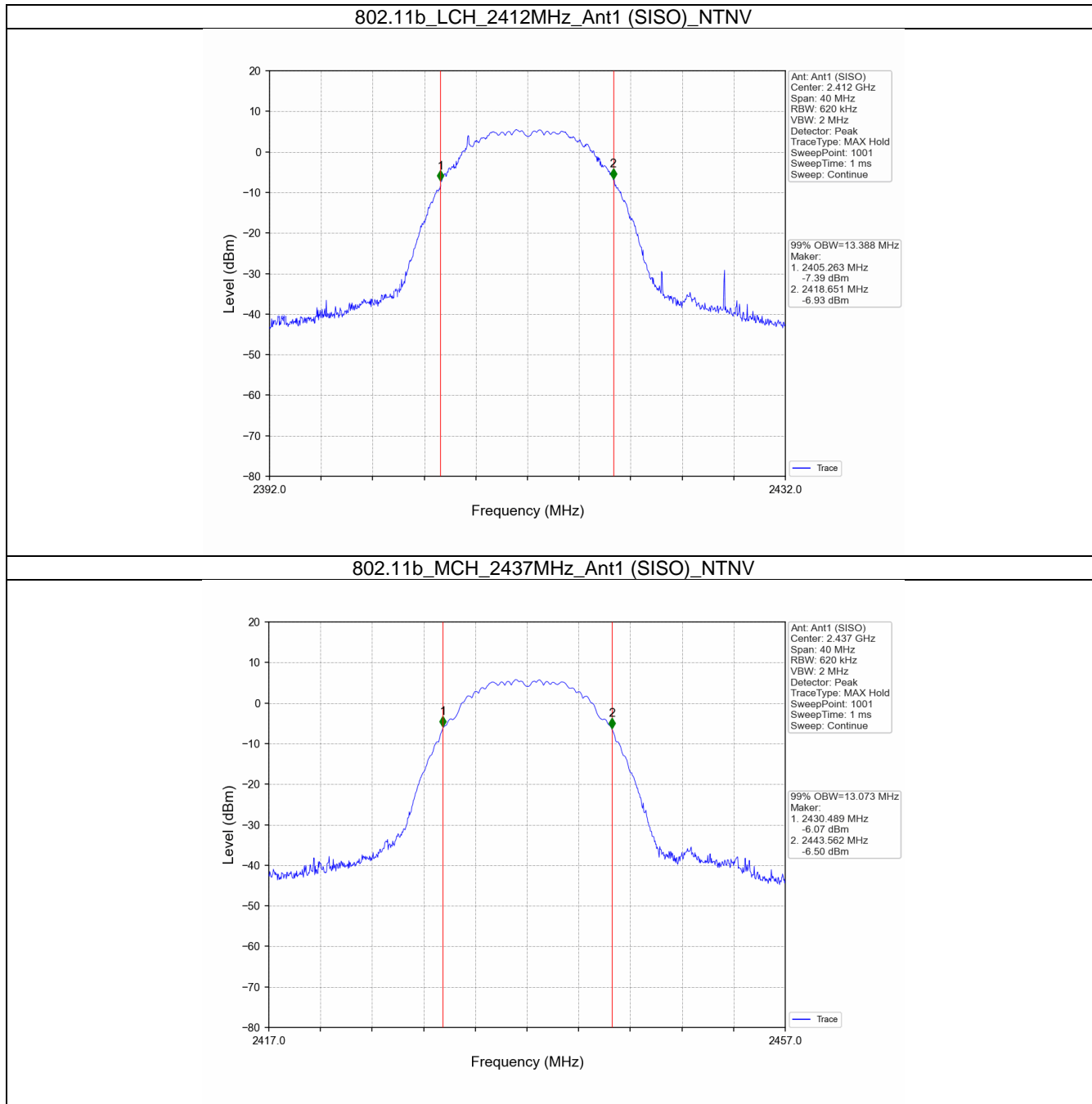
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.388	Pass
		2437	1	13.073	Pass
		2462	1	13.071	Pass
802.11g	SISO	2412	1	17.238	Pass
		2437	1	17.253	Pass
		2462	1	17.250	Pass
802.11n (HT20)	SISO	2412	1	17.932	Pass
		2437	1	17.918	Pass
		2462	1	17.917	Pass
802.11n (HT40)	SISO	2422	1	36.195	Pass
		2437	1	36.264	Pass
		2452	1	36.193	Pass



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2.1.2 Test Graph

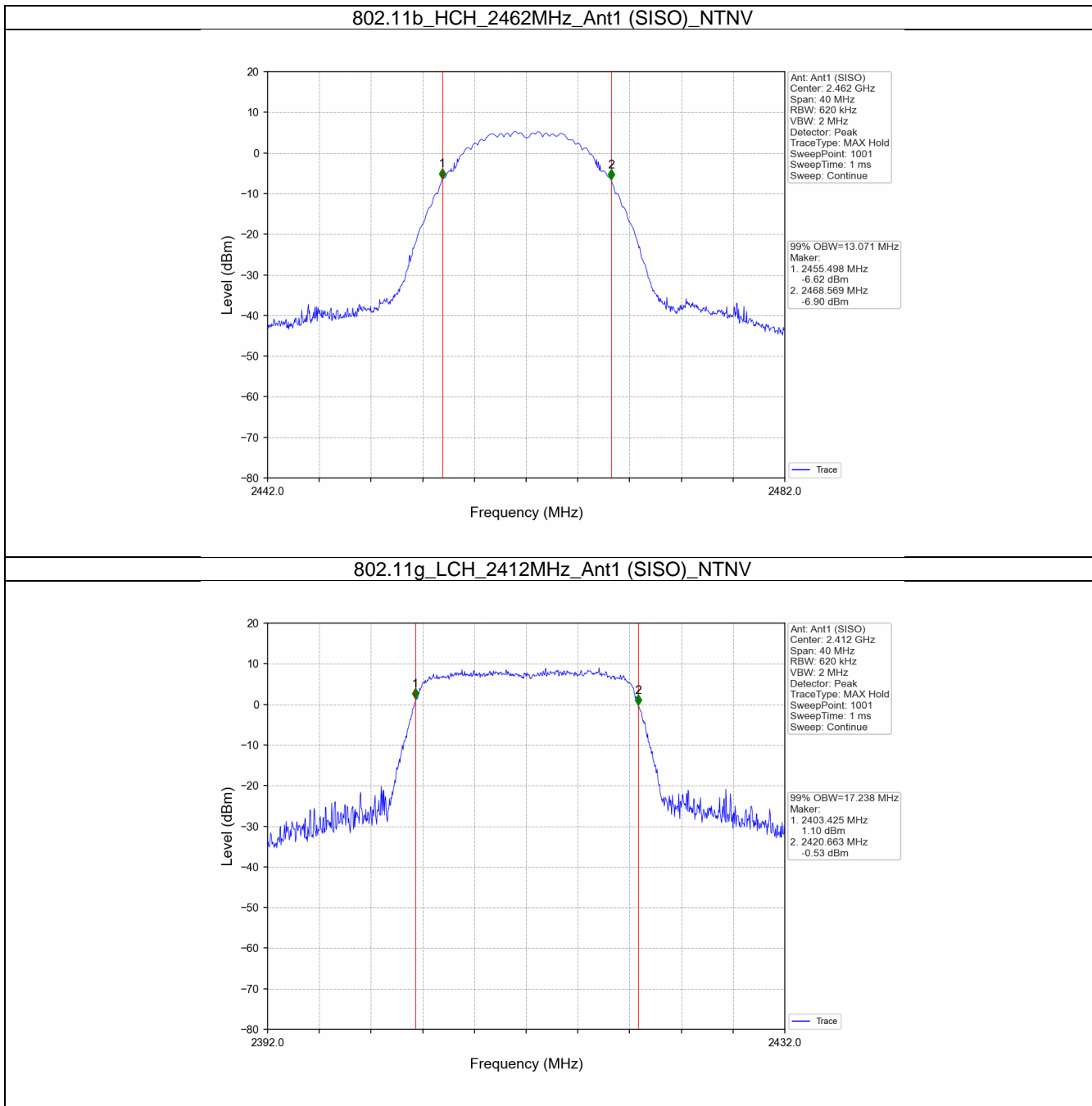


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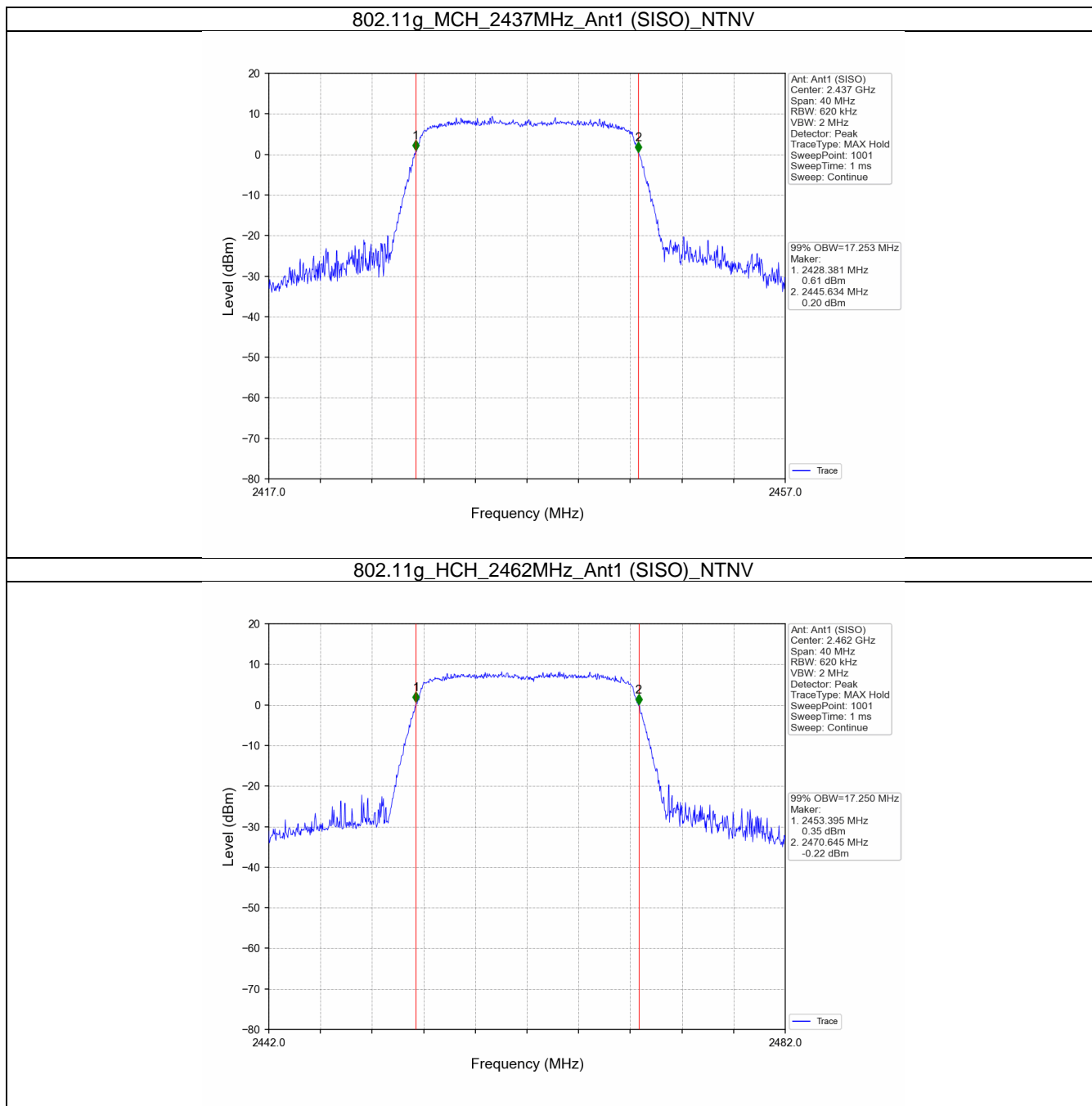
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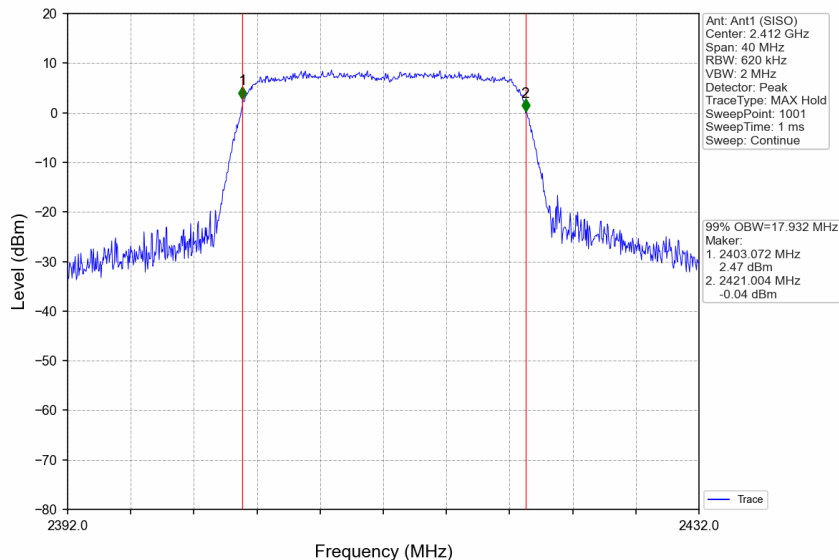
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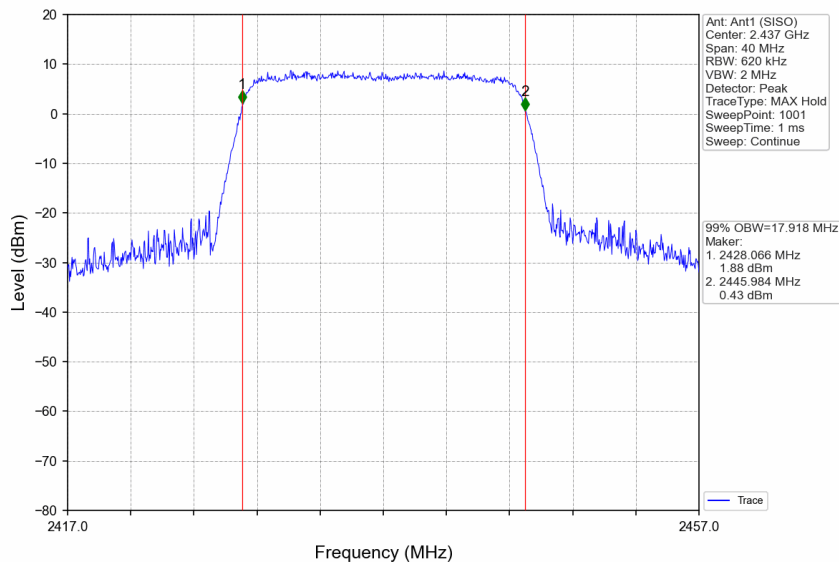
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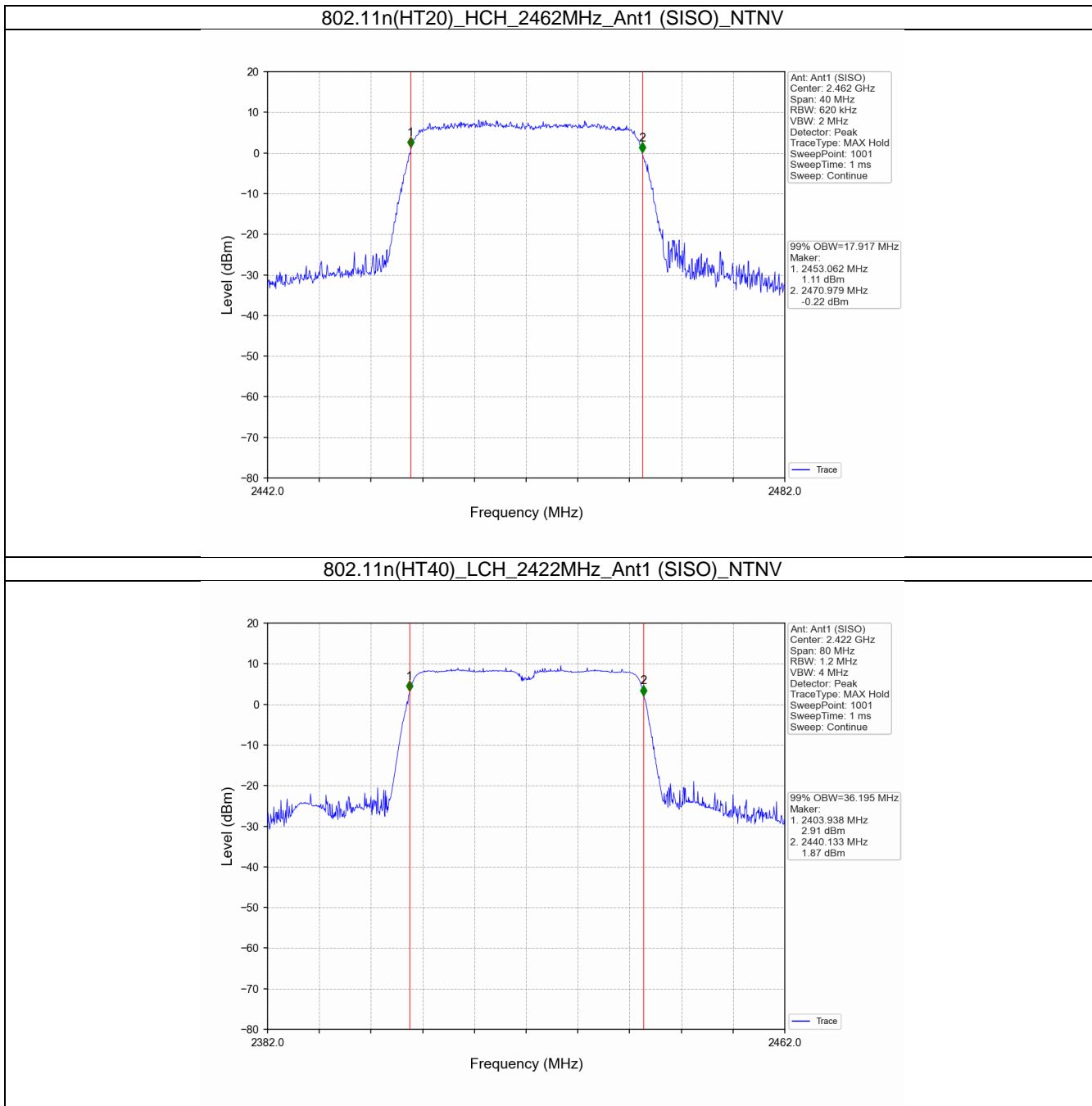
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



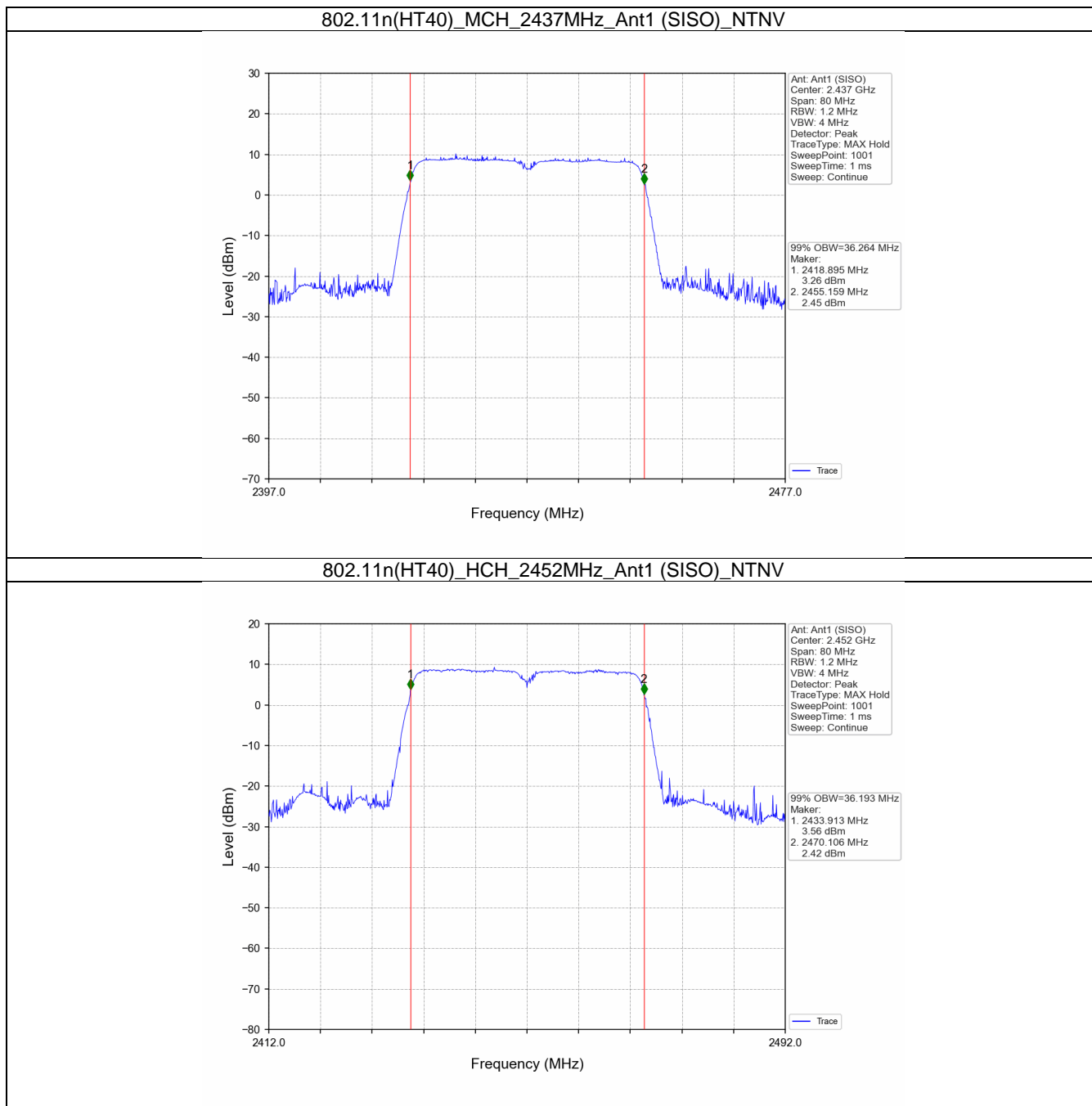
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2.2 6dB BW

2.2.1 Test Result

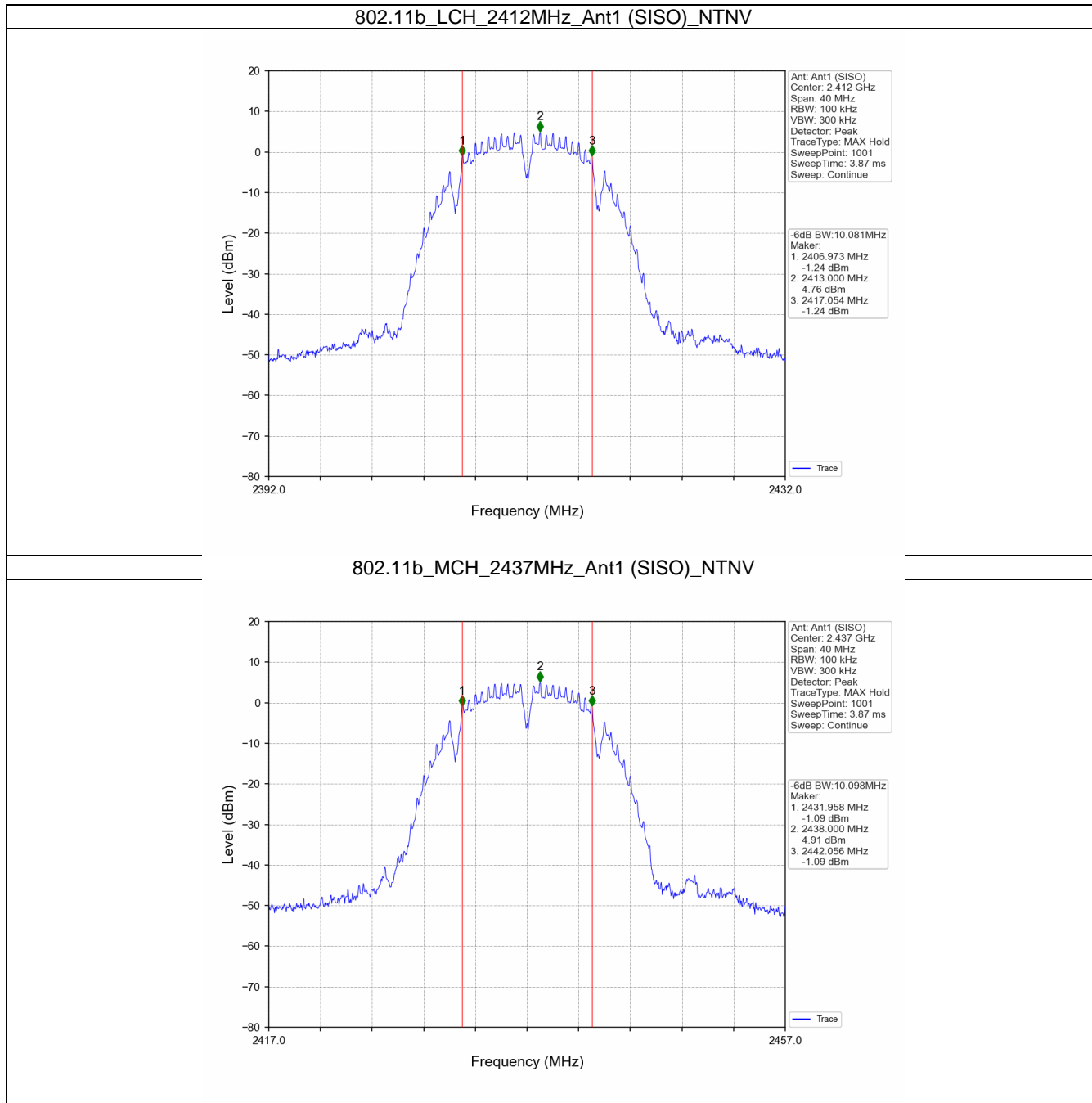
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.081	>=0.5	Pass
		2437	1	10.098	>=0.5	Pass
		2462	1	10.087	>=0.5	Pass
802.11g	SISO	2412	1	16.391	>=0.5	Pass
		2437	1	16.386	>=0.5	Pass
		2462	1	16.389	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.143	>=0.5	Pass
		2437	1	17.138	>=0.5	Pass
		2462	1	17.166	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.392	>=0.5	Pass
		2437	1	35.669	>=0.5	Pass
		2452	1	35.701	>=0.5	Pass



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2.2.2 Test Graph

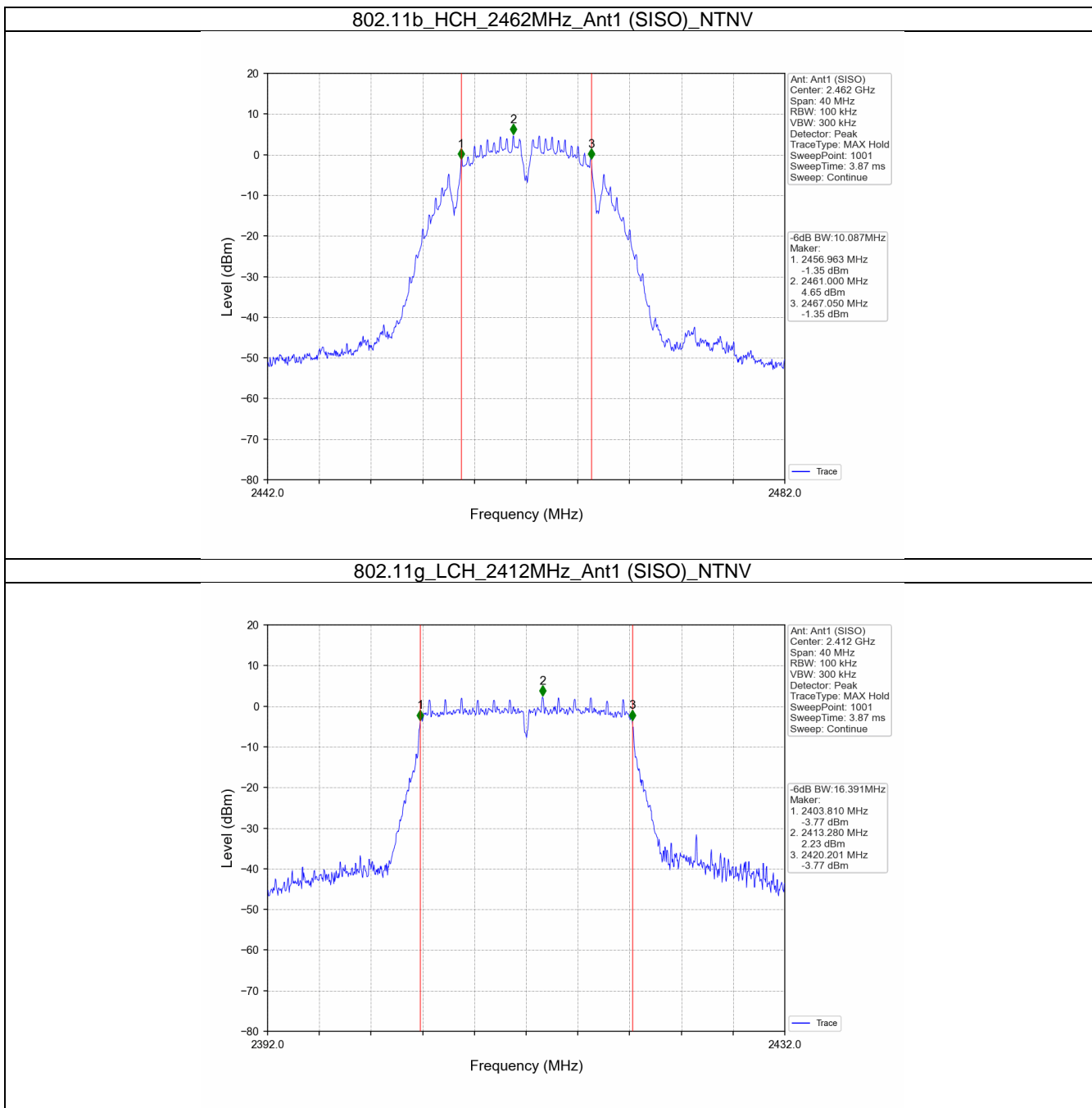


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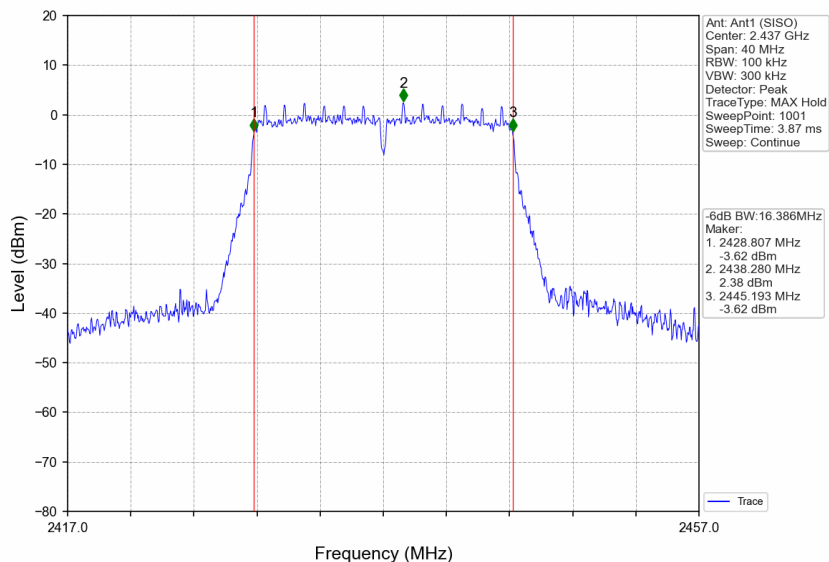
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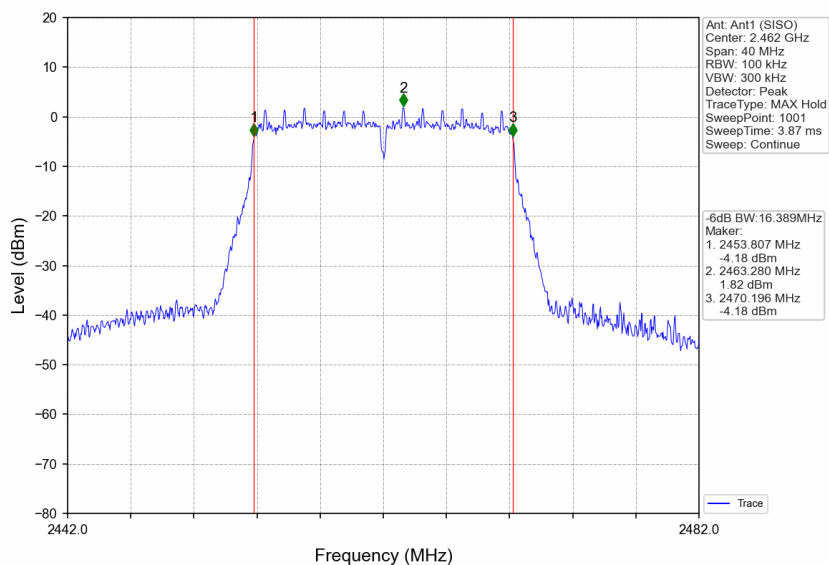
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



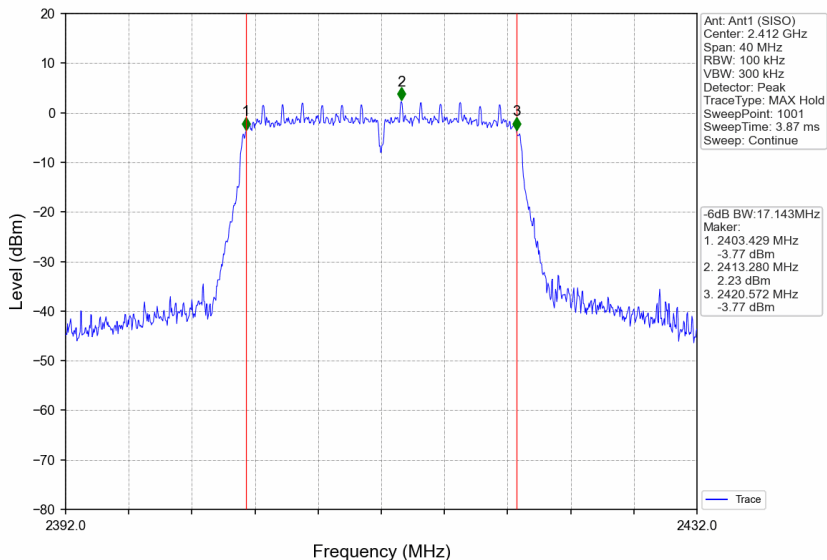
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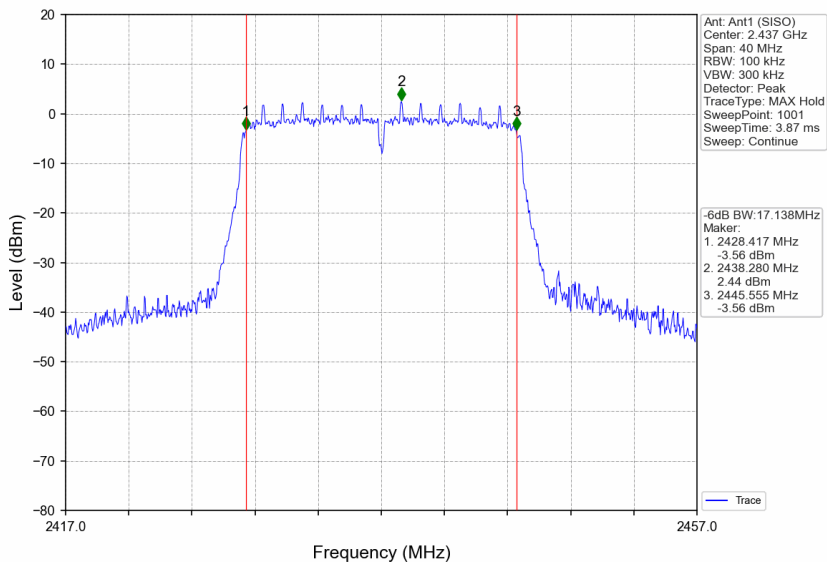
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

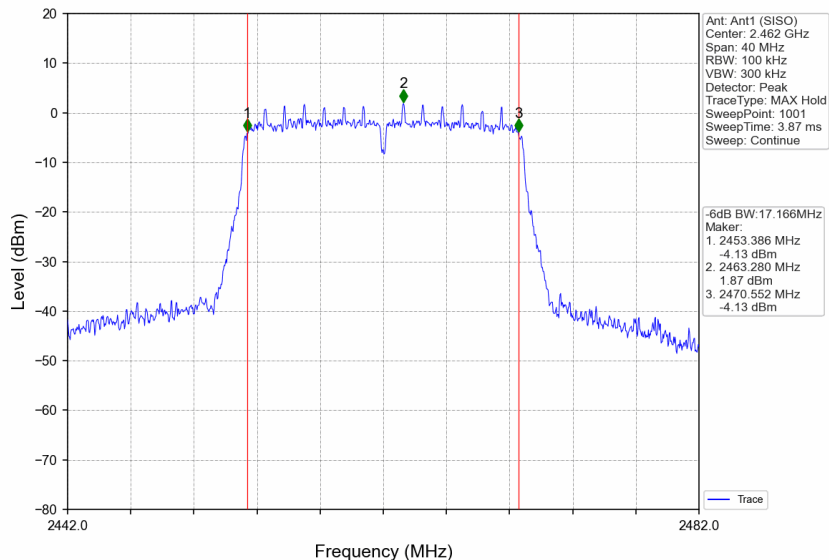


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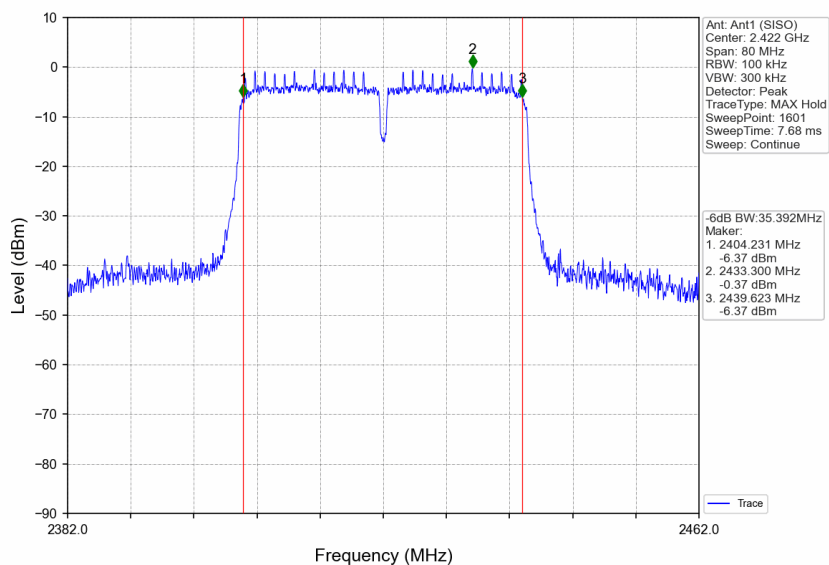
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

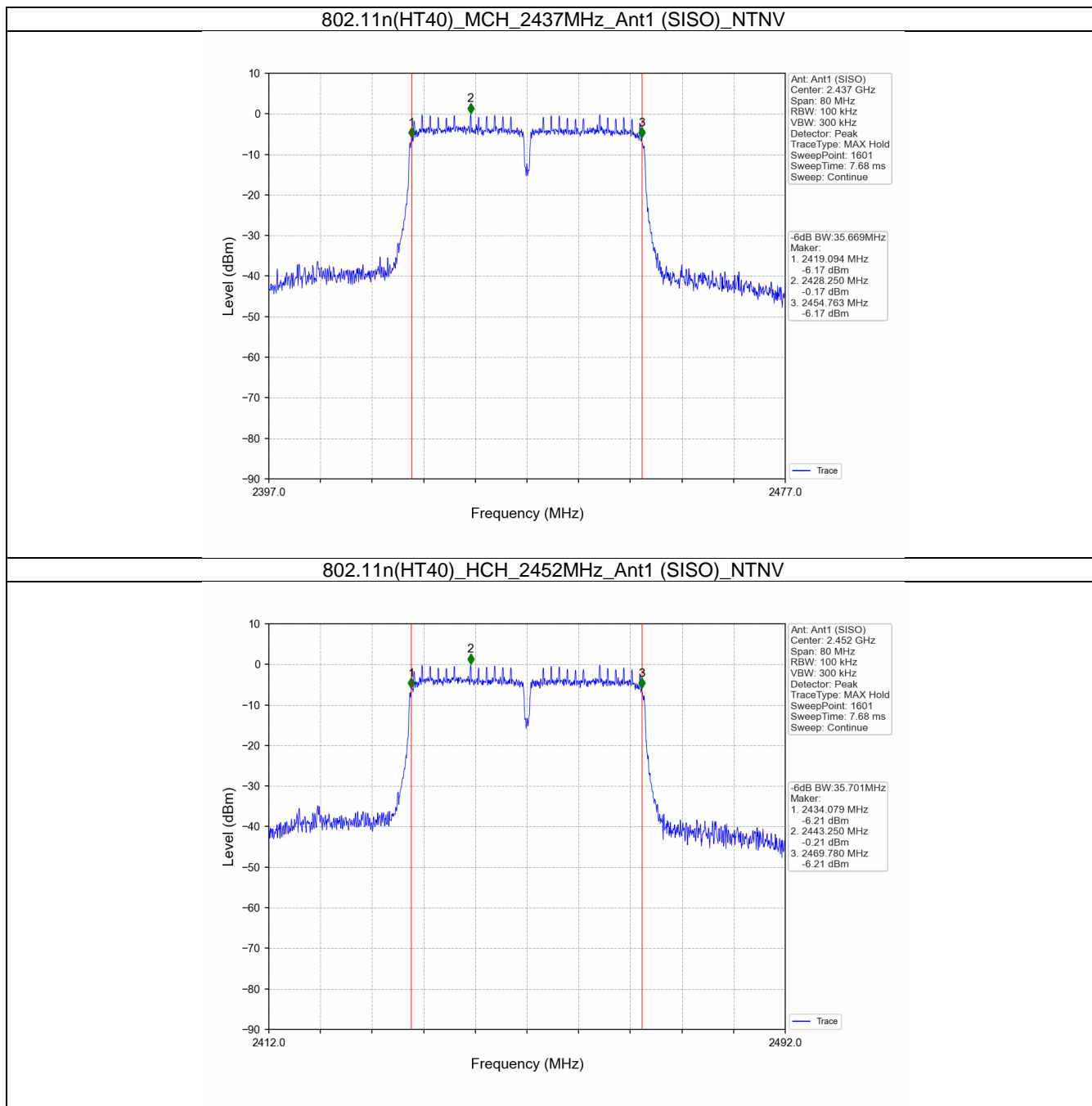


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	13.53	<=30	Pass
		2437	13.86	<=30	Pass
		2462	13.45	<=30	Pass
802.11g	SISO	2412	13.38	<=30	Pass
		2437	13.58	<=30	Pass
		2462	13.03	<=30	Pass
802.11n (HT20)	SISO	2412	13.27	<=30	Pass
		2437	13.46	<=30	Pass
		2462	12.93	<=30	Pass
802.11n (HT40)	SISO	2422	13.61	<=30	Pass
		2437	14.12	<=30	Pass
		2452	13.81	<=30	Pass

Note1: Antenna Gain: Ant1: 0.05dBi;

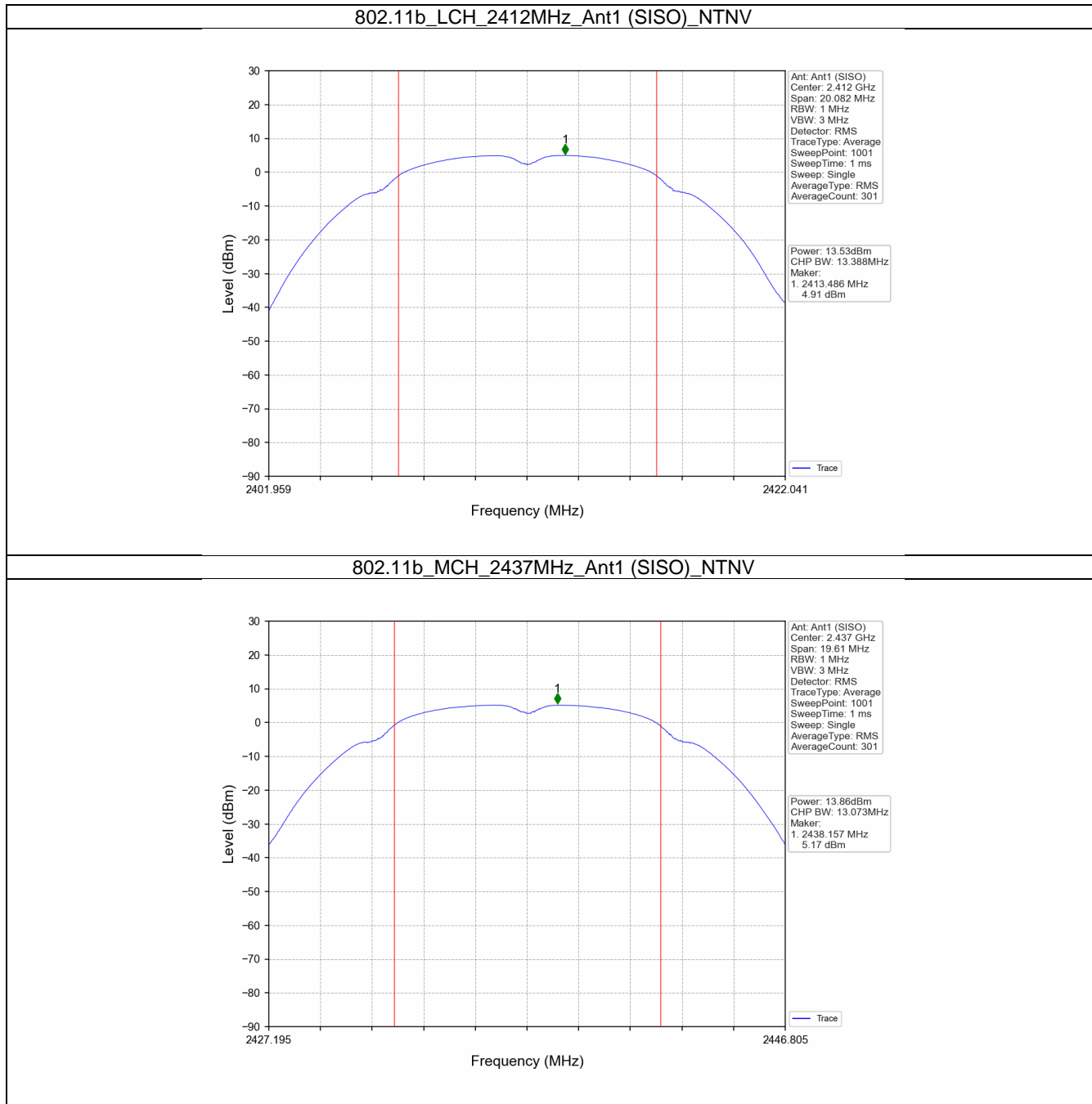


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3.1.2 Test Graph

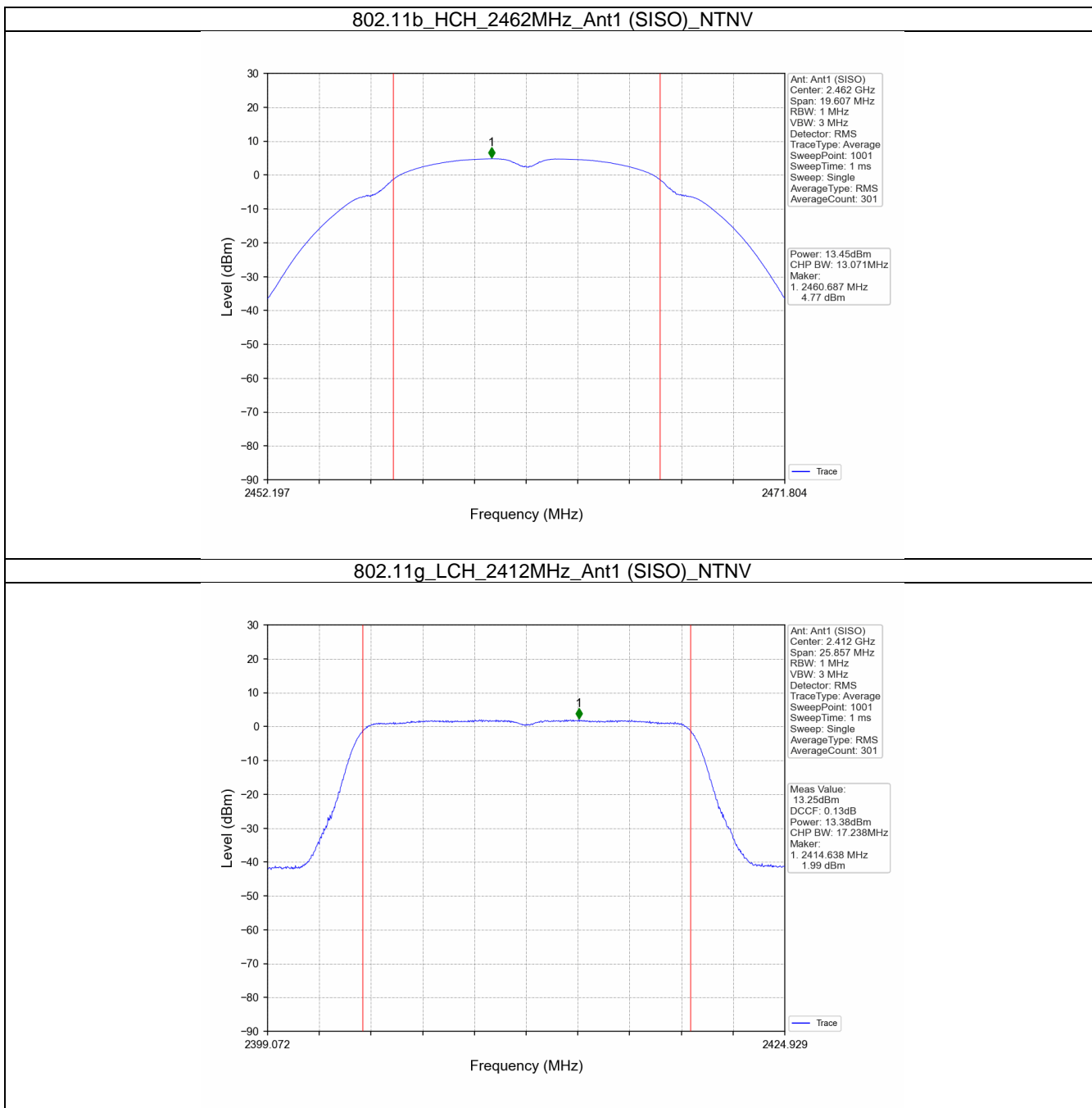


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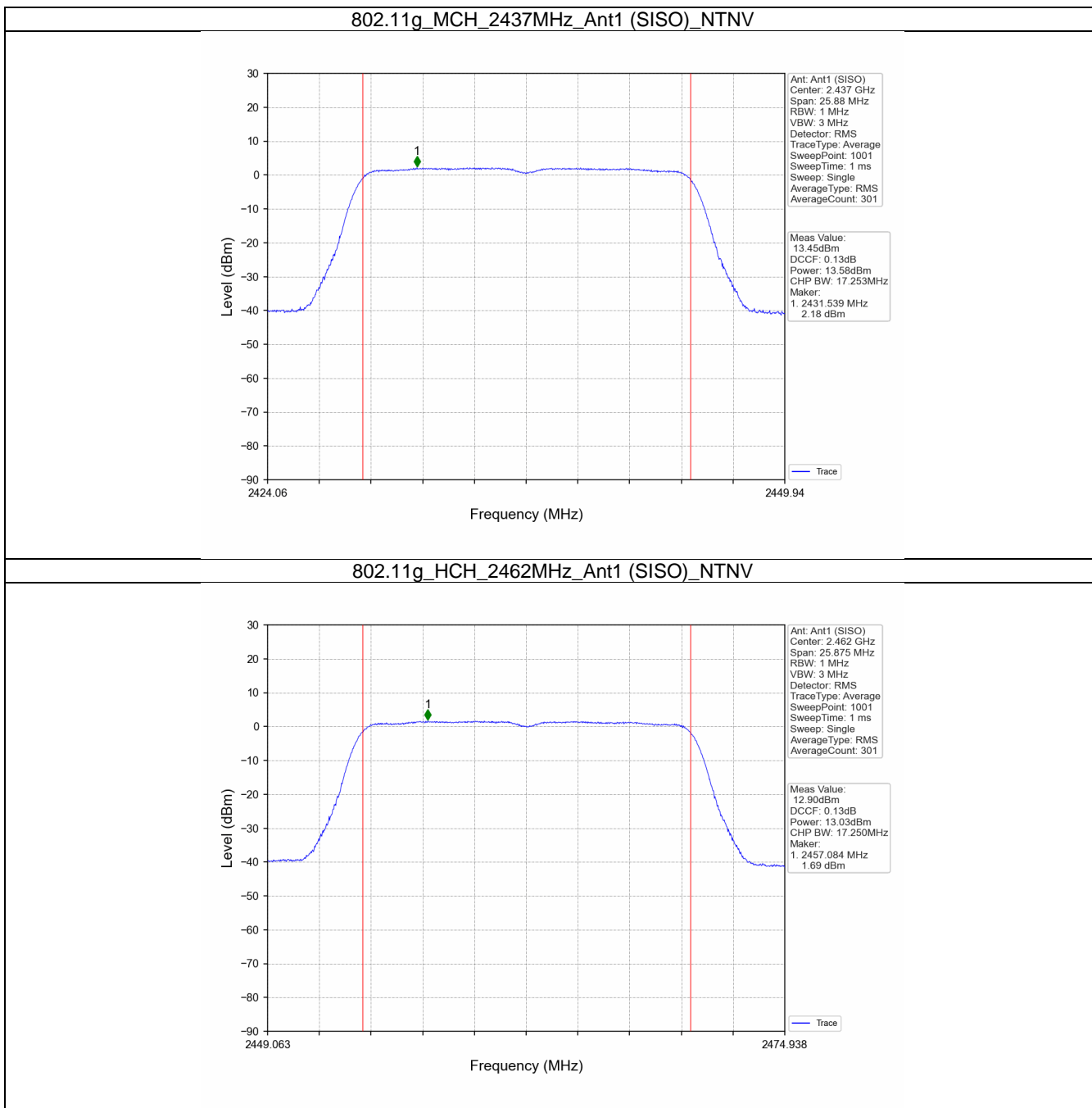
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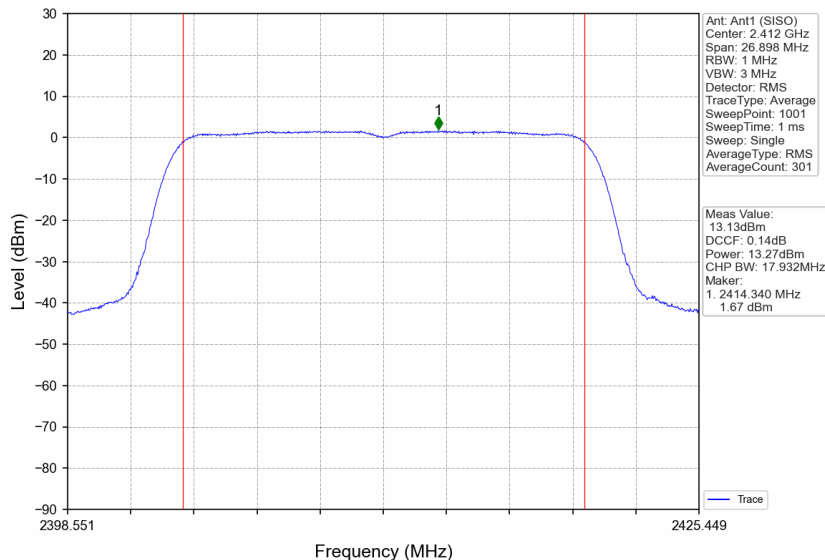
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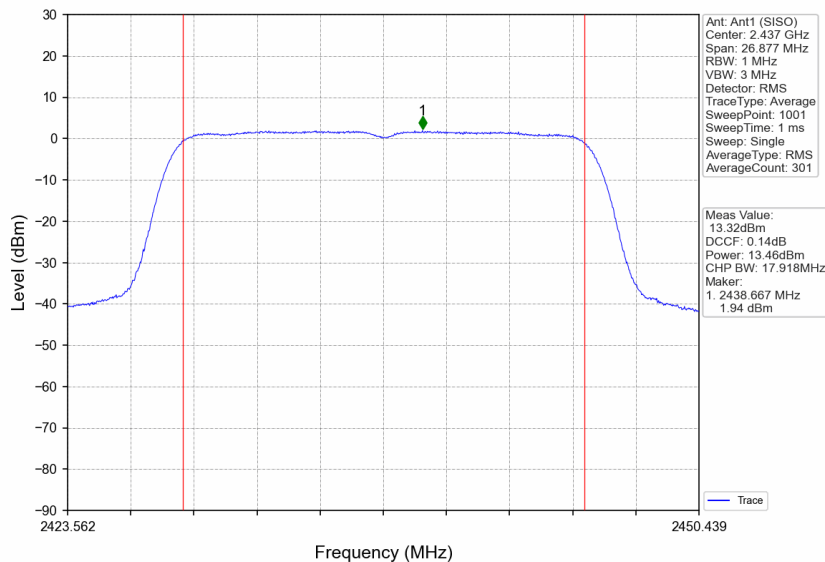
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



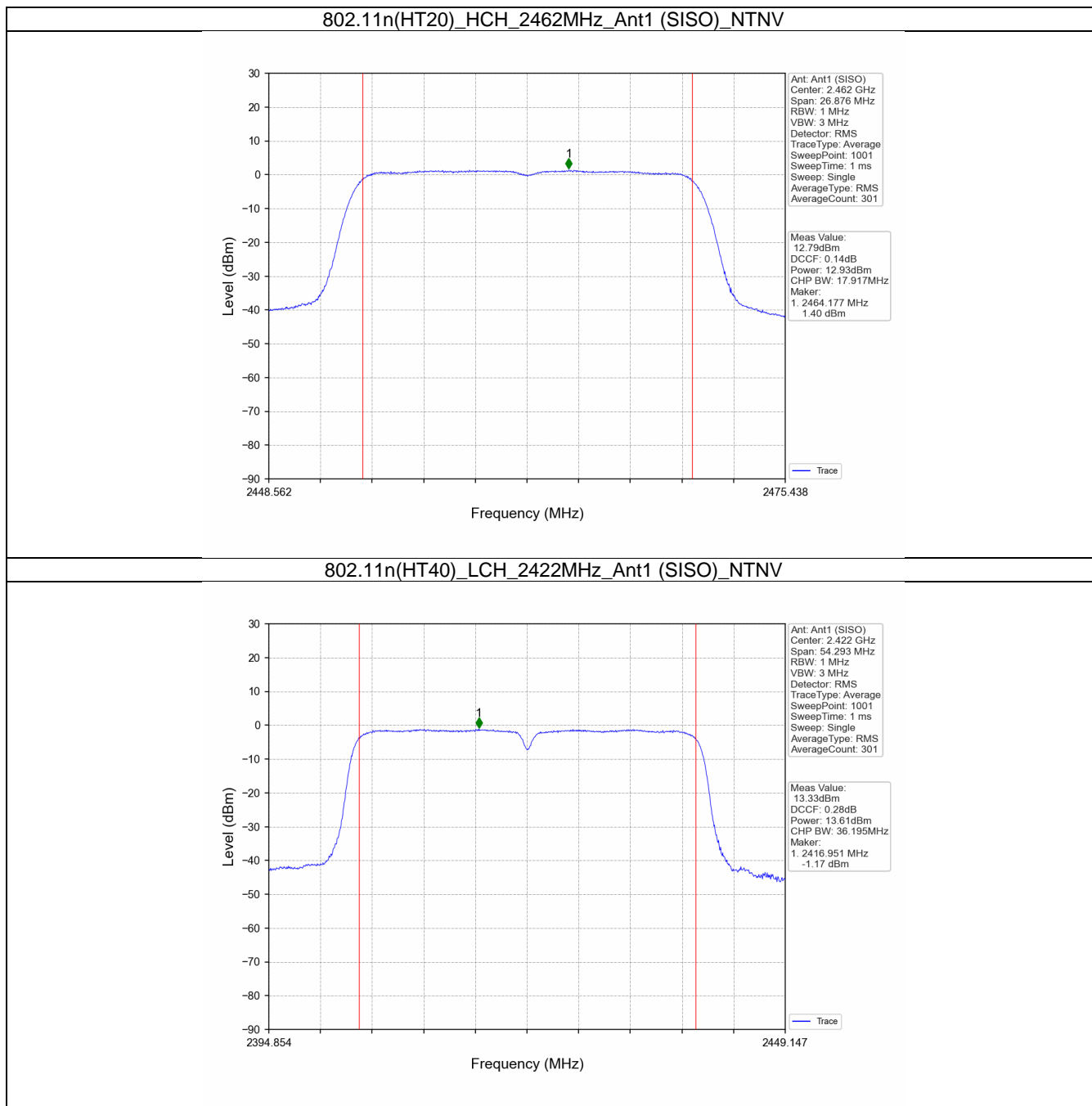
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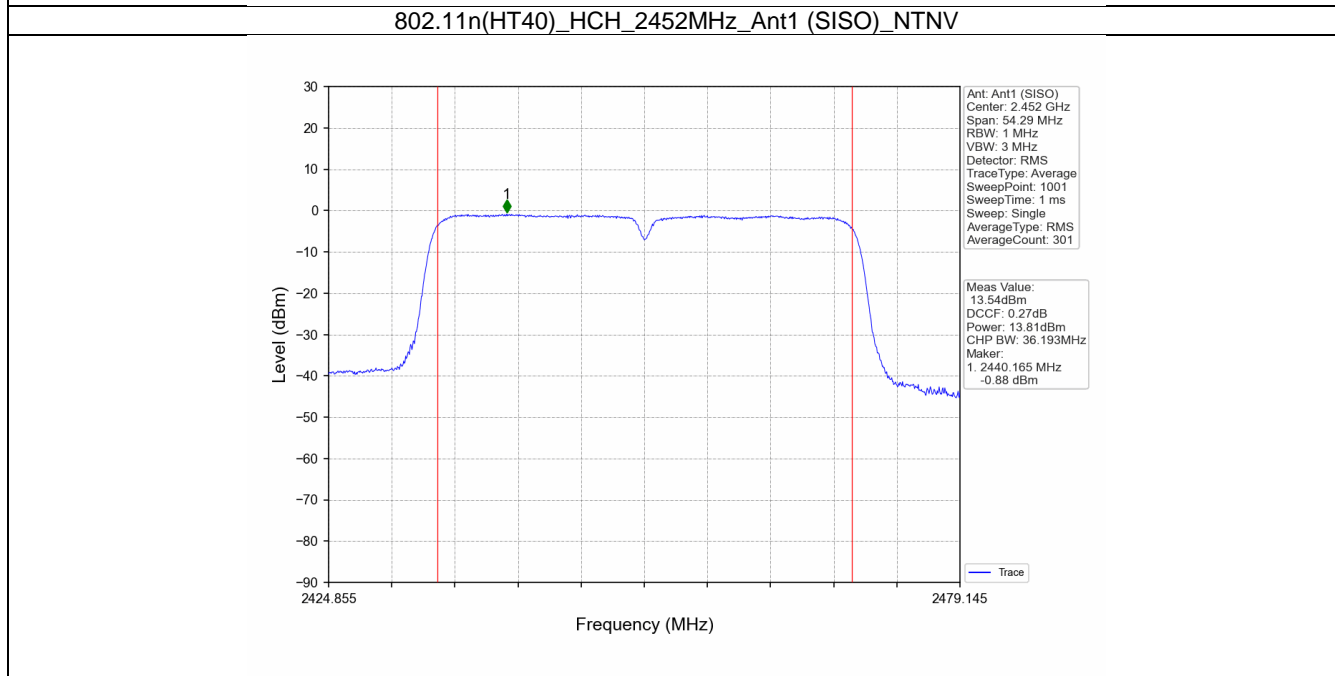
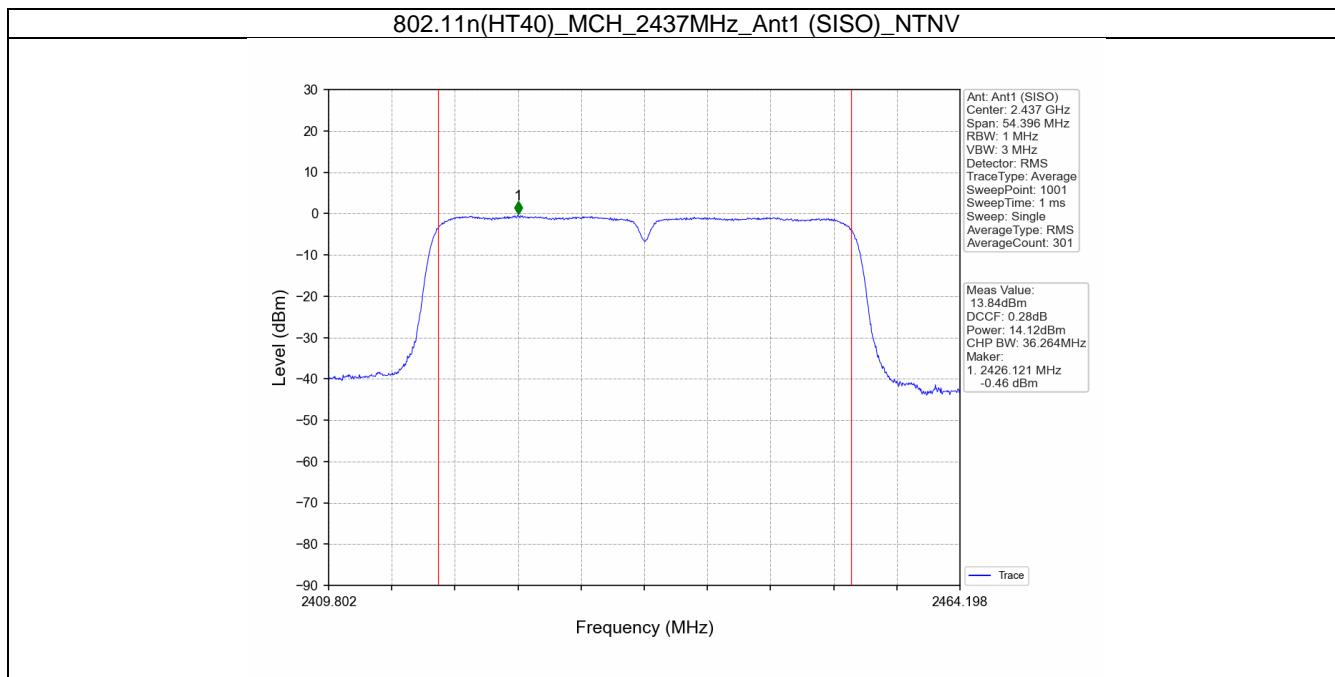
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-6.78	<=8	Pass
		2437	-9.30	<=8	Pass
		2462	-6.73	<=8	Pass
802.11g	SISO	2412	-11.17	<=8	Pass
		2437	-11.85	<=8	Pass
		2462	-10.18	<=8	Pass
802.11n (HT20)	SISO	2412	-10.89	<=8	Pass
		2437	-11.62	<=8	Pass
		2462	-12.31	<=8	Pass
802.11n (HT40)	SISO	2422	-14.05	<=8	Pass
		2437	-13.87	<=8	Pass
		2452	-14.34	<=8	Pass

Note1: Antenna Gain: Ant1: 0.05dBi;



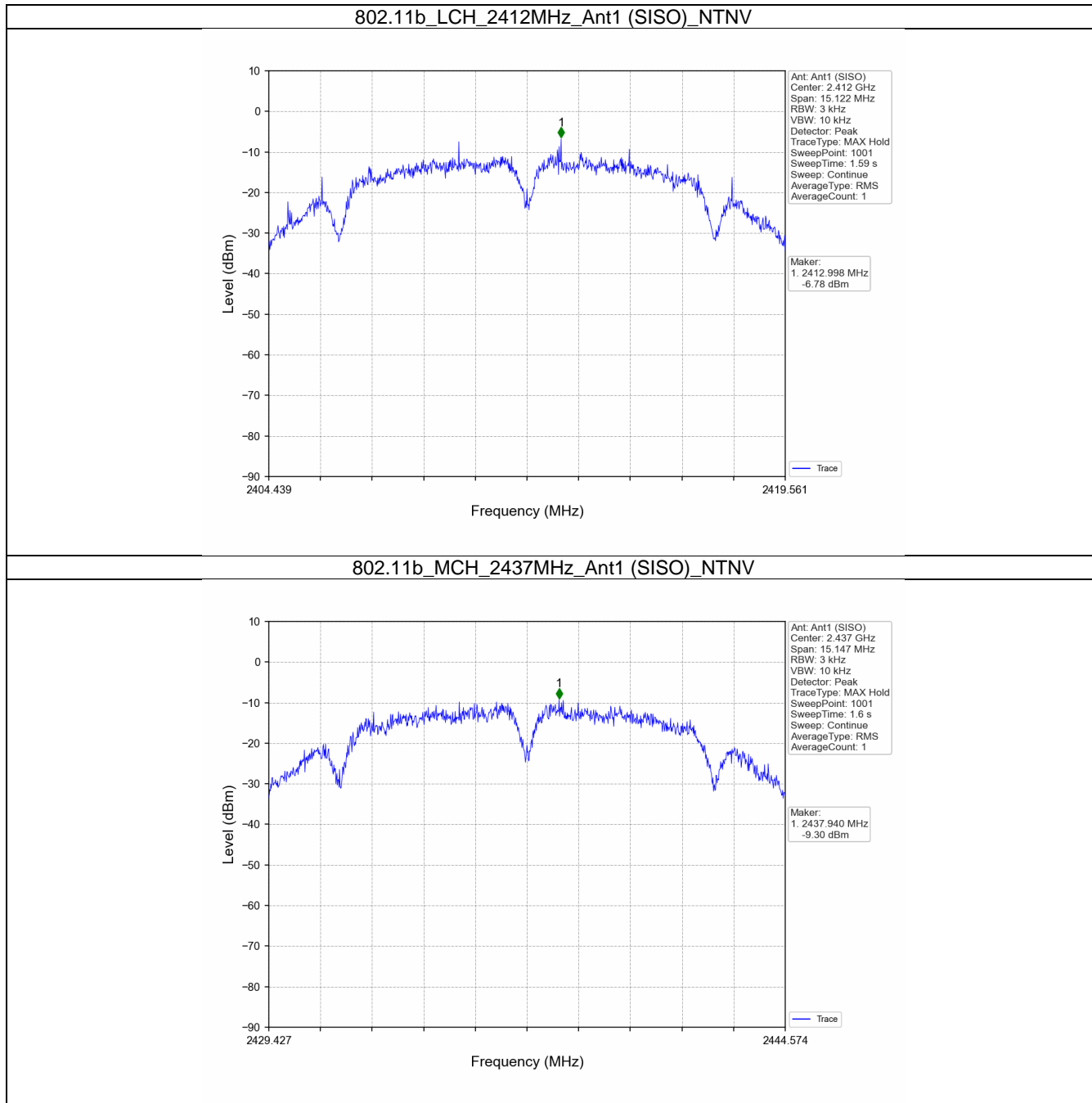
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4.1.2 Test Graph

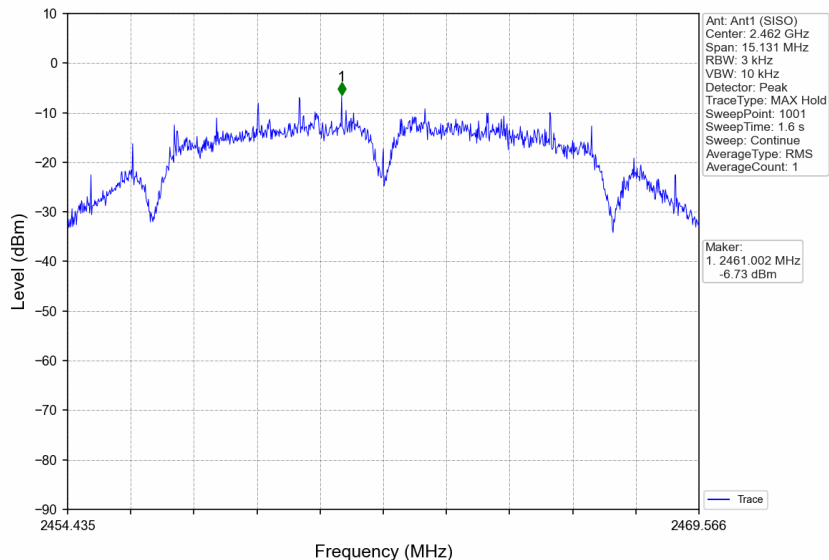


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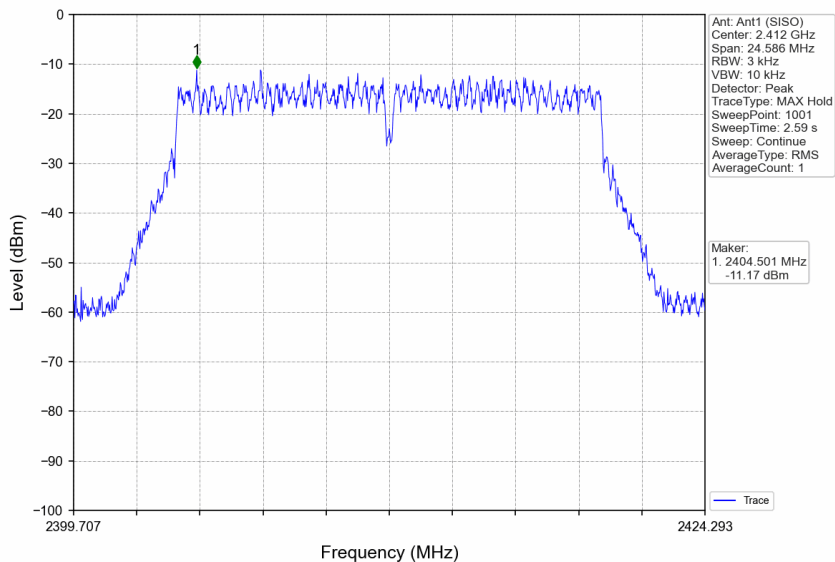
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



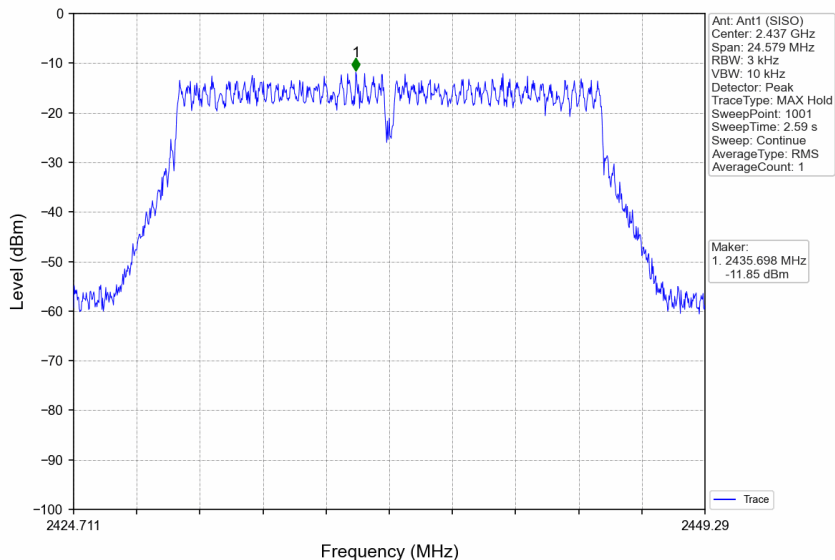
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



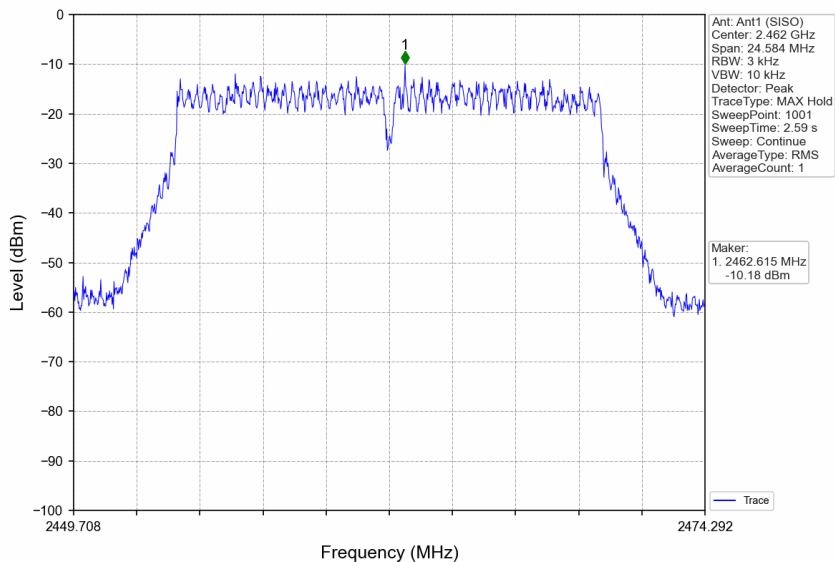
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

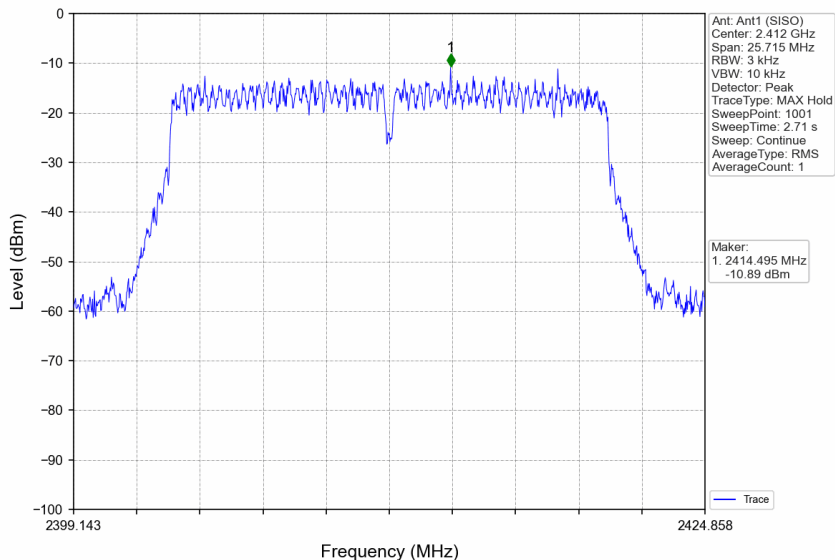


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

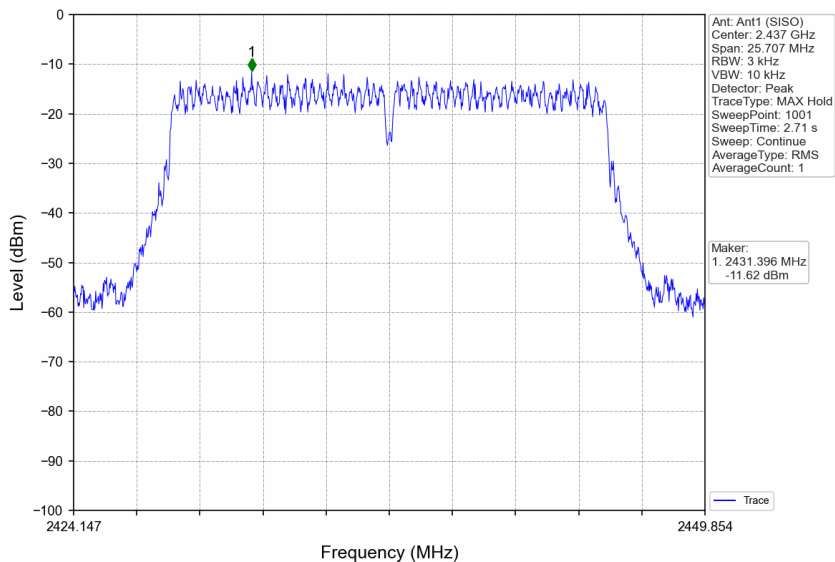


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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

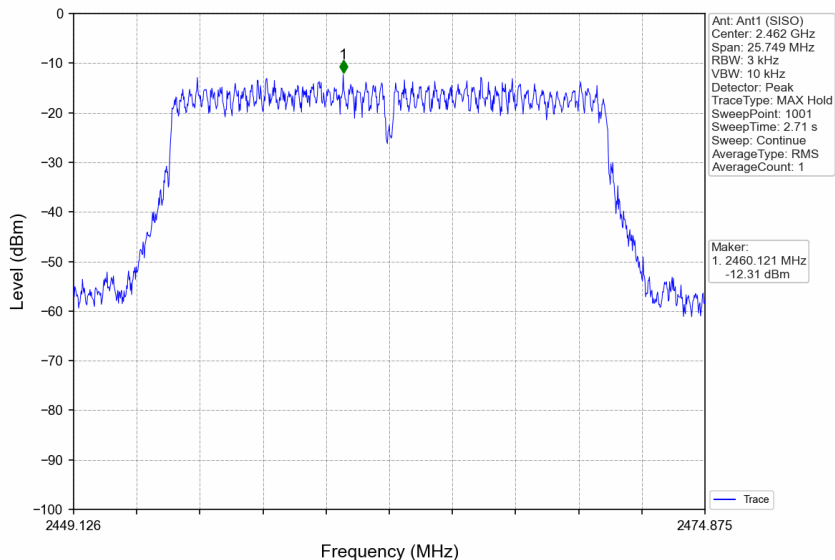


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

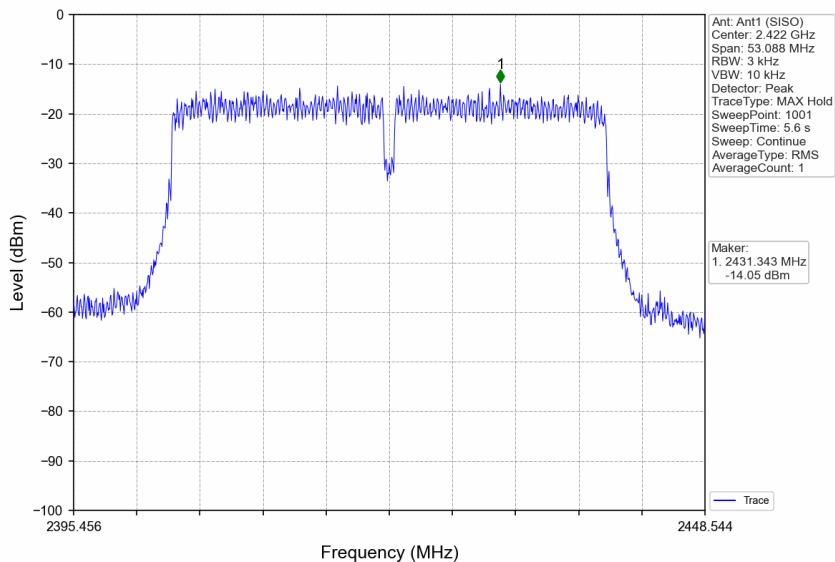


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

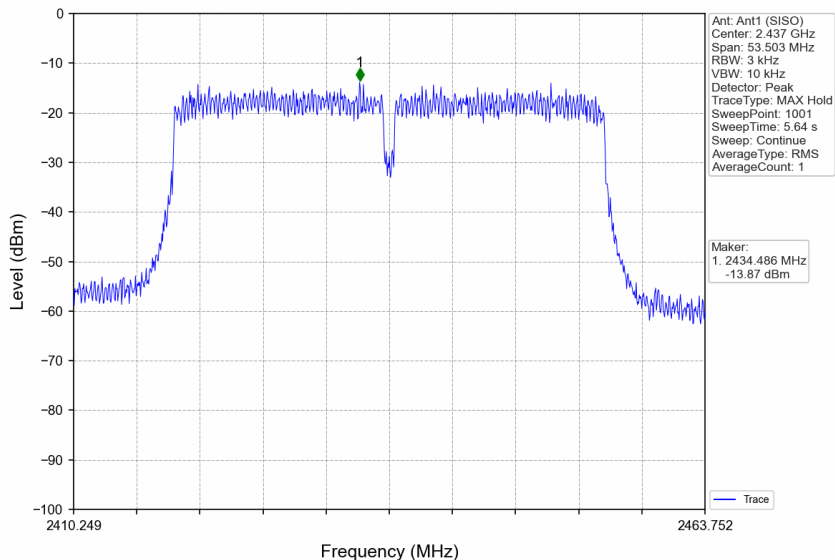


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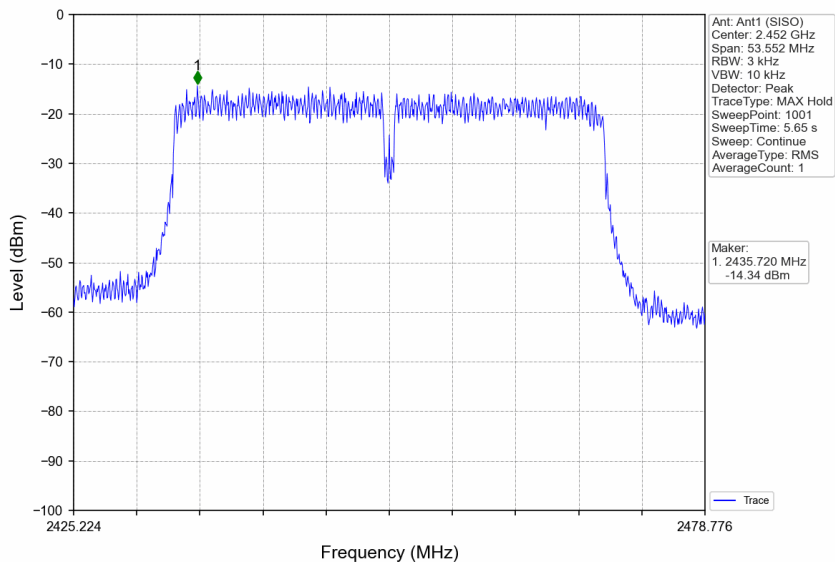
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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	4.70
		2437	1	4.93
		2462	1	4.61
802.11g	SISO	2412	1	2.10
		2437	1	2.21
		2462	1	1.73
802.11n (HT20)	SISO	2412	1	2.12
		2437	1	2.27
		2462	1	1.73
802.11n (HT40)	SISO	2422	1	-0.47
		2437	1	0.01
		2452	1	-0.25

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.

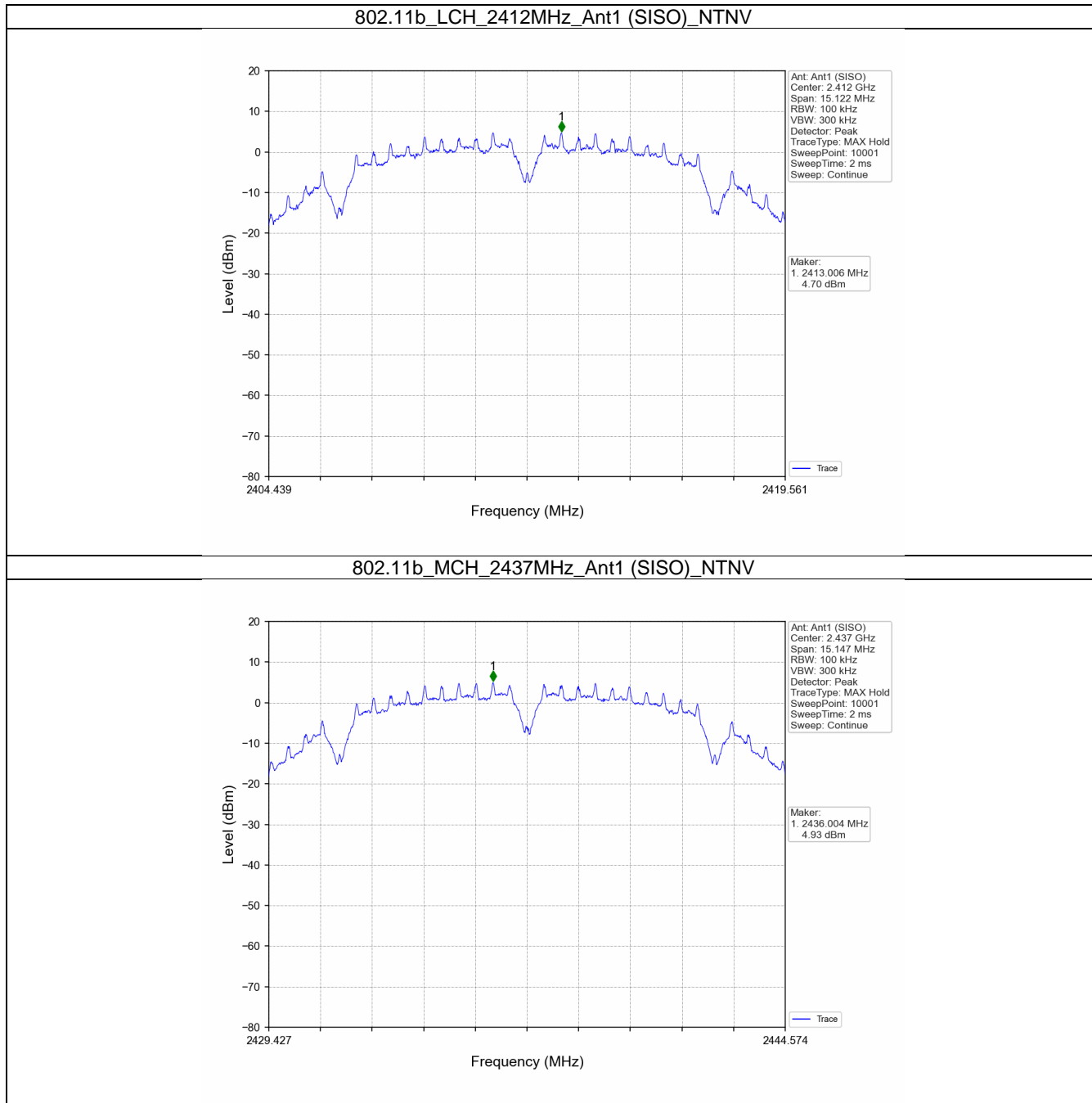
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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5.1.2 Test Graph

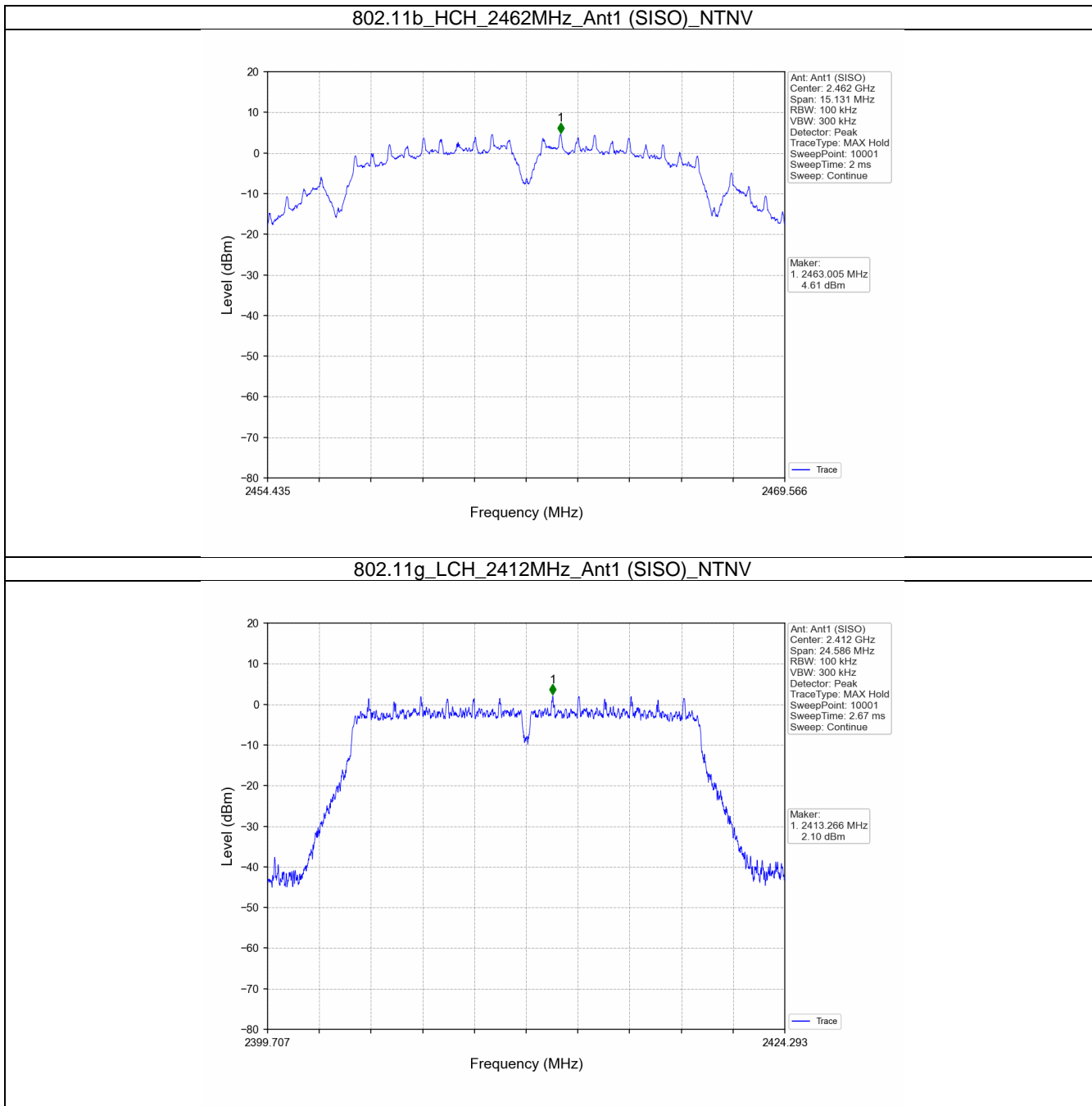


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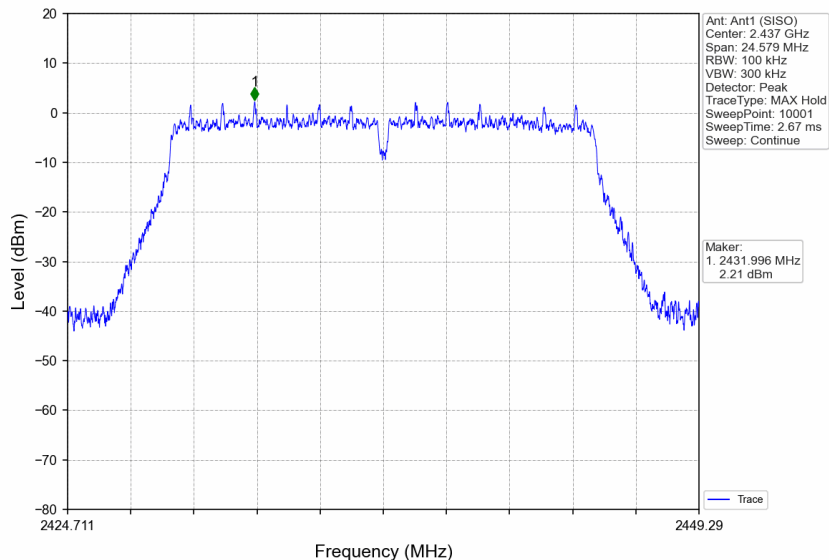


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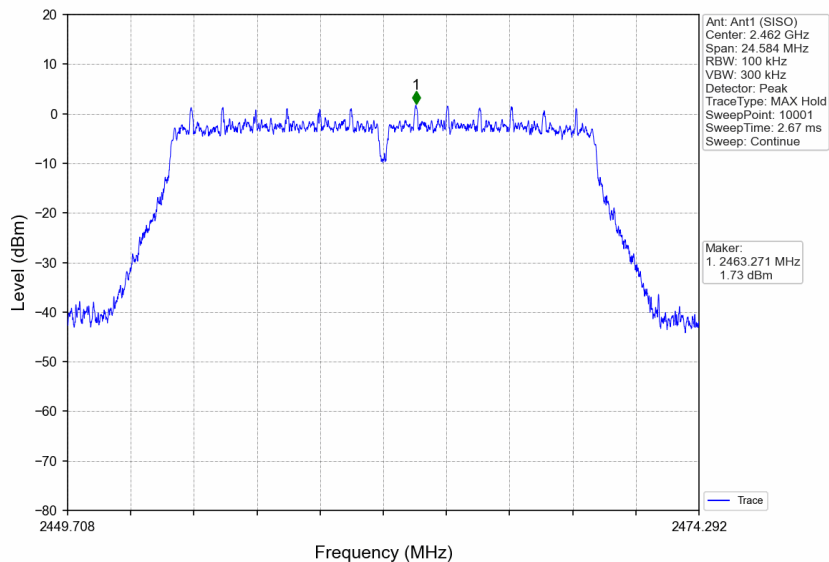
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



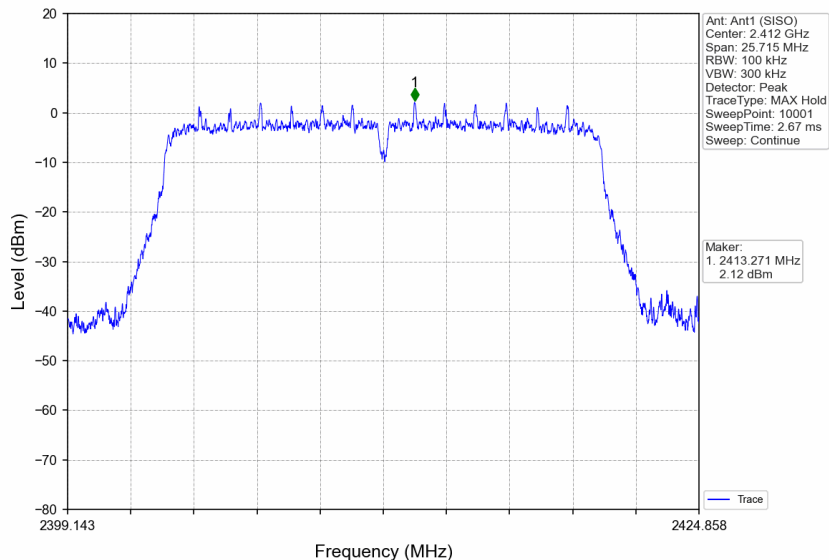
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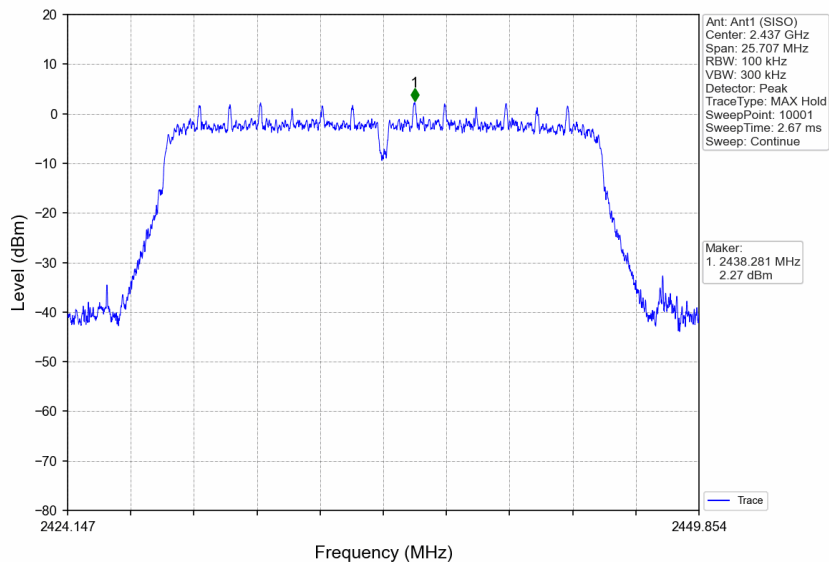
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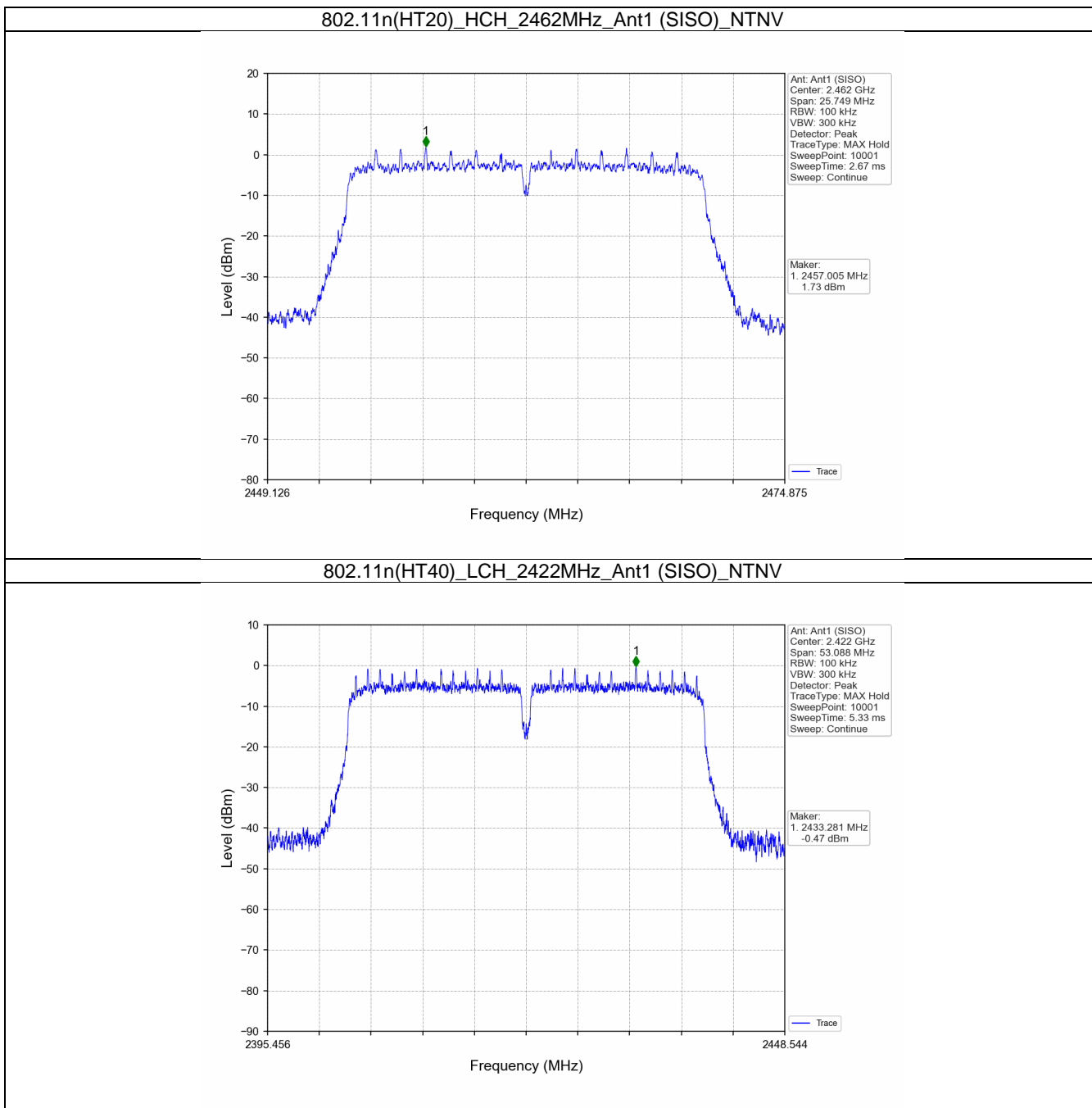
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

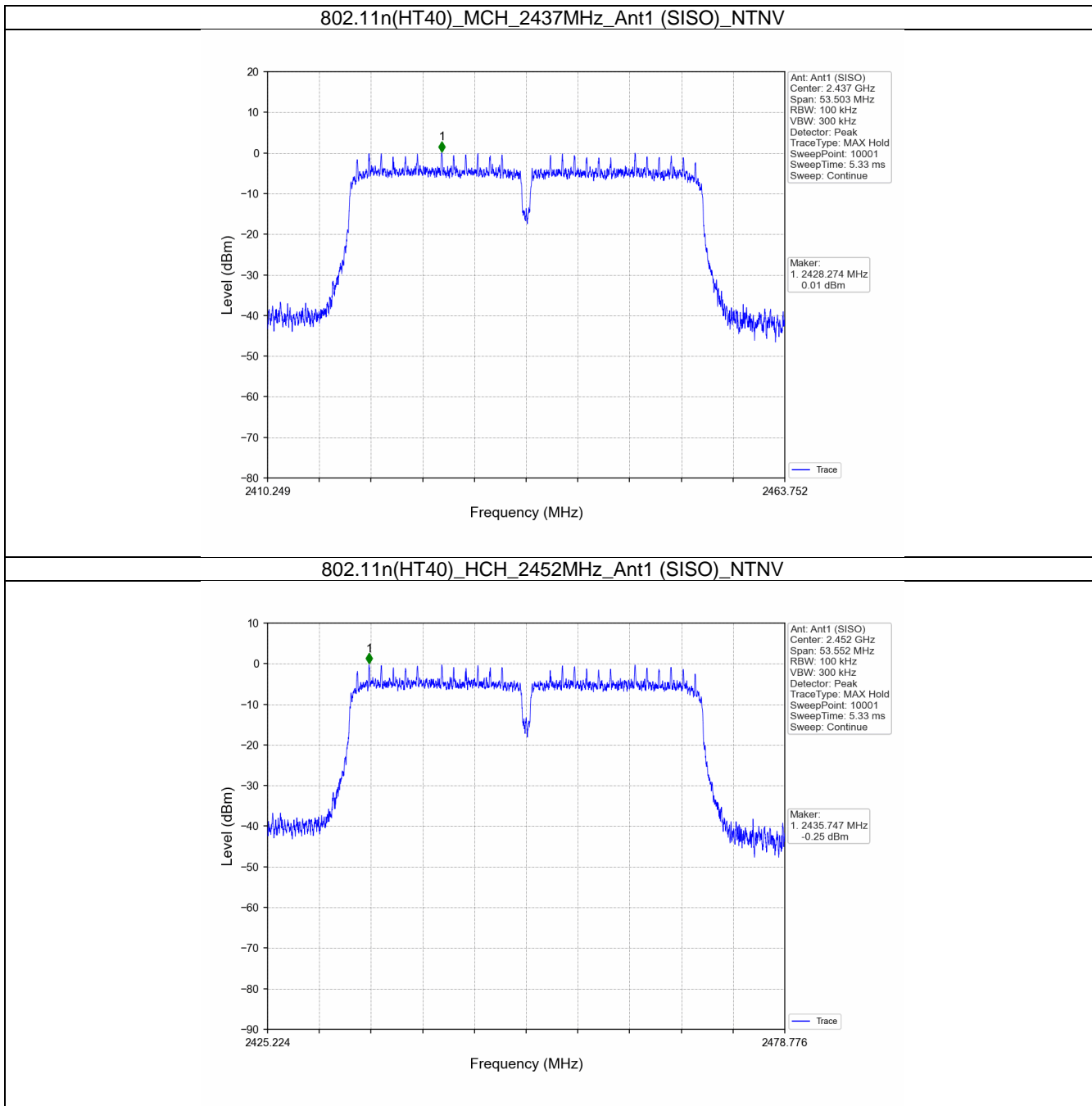


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5.2 CSE

5.2.1 Test Result

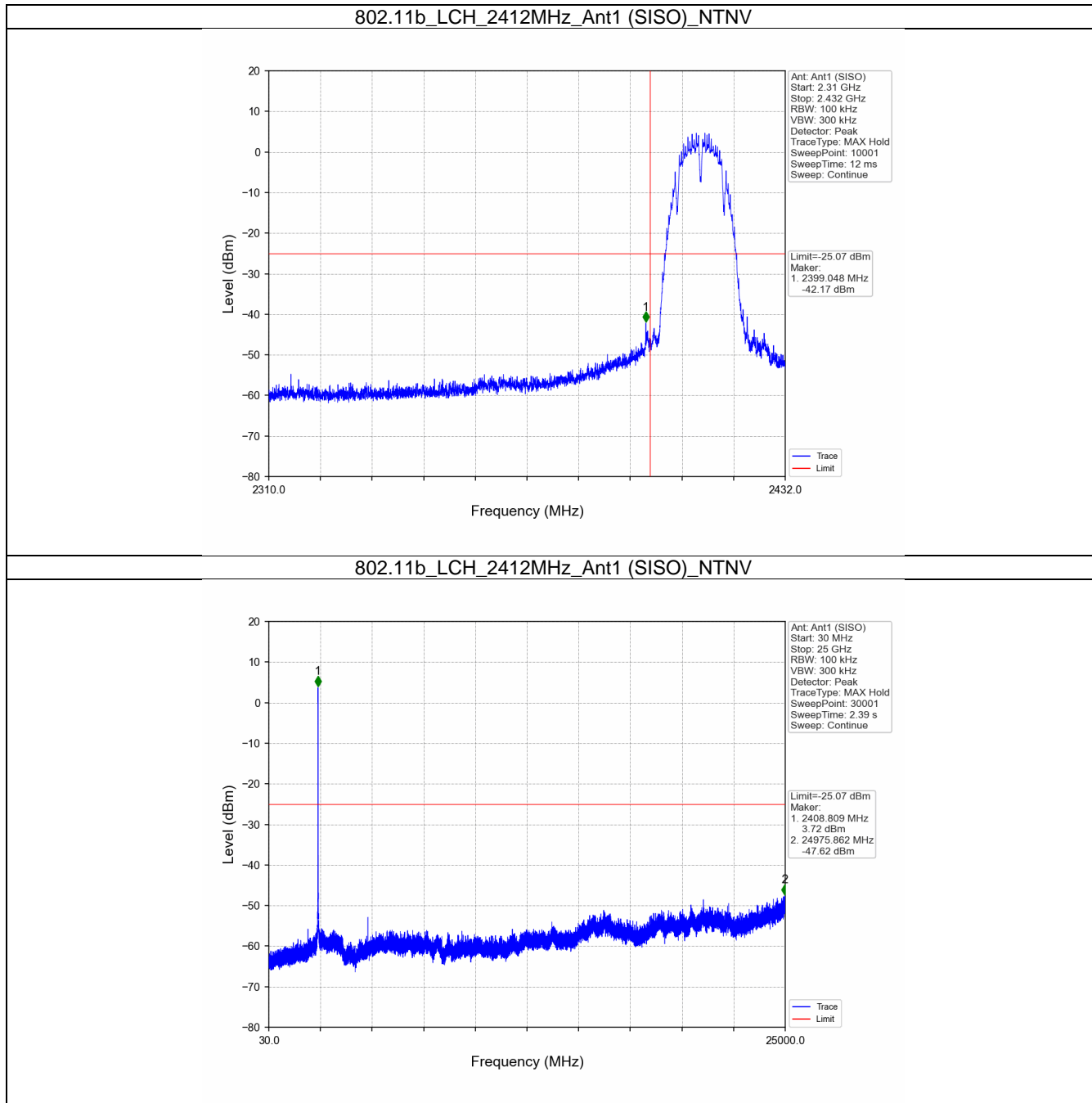
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	4.93	-25.07	Pass
		2437	1	4.93	-25.07	Pass
		2462	1	4.93	-25.07	Pass
802.11g	SISO	2412	1	2.21	-27.79	Pass
		2437	1	2.21	-27.79	Pass
		2462	1	2.21	-27.79	Pass
802.11n (HT20)	SISO	2412	1	2.27	-27.73	Pass
		2437	1	2.27	-27.73	Pass
		2462	1	2.27	-27.73	Pass
802.11n (HT40)	SISO	2422	1	0.01	-29.99	Pass
		2437	1	0.01	-29.99	Pass
		2452	1	0.01	-29.99	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.
 Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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5.2.2 Test Graph



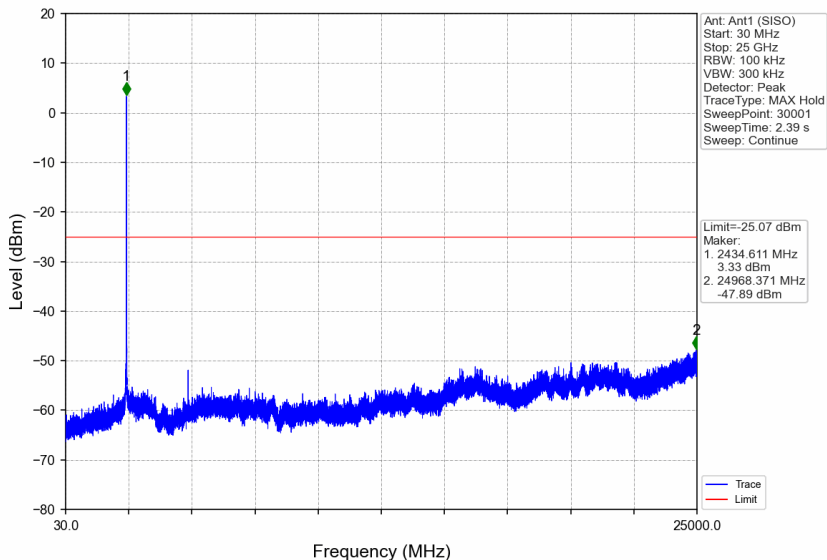
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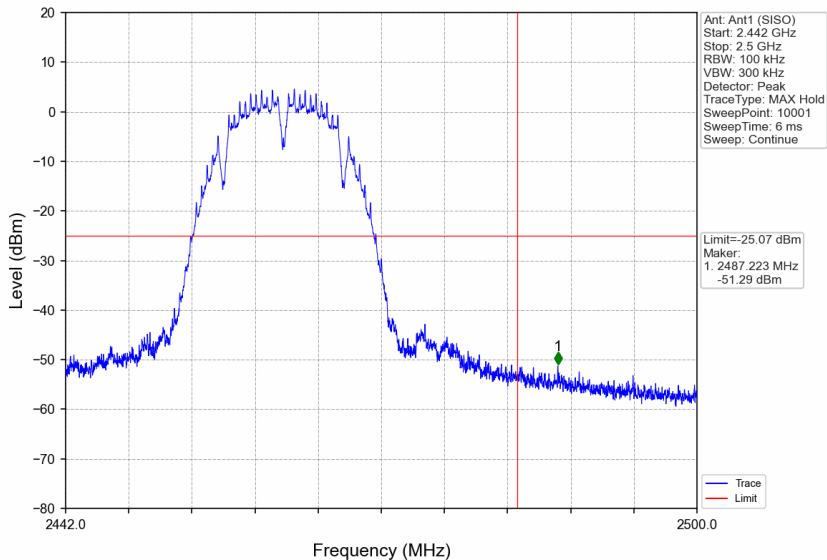
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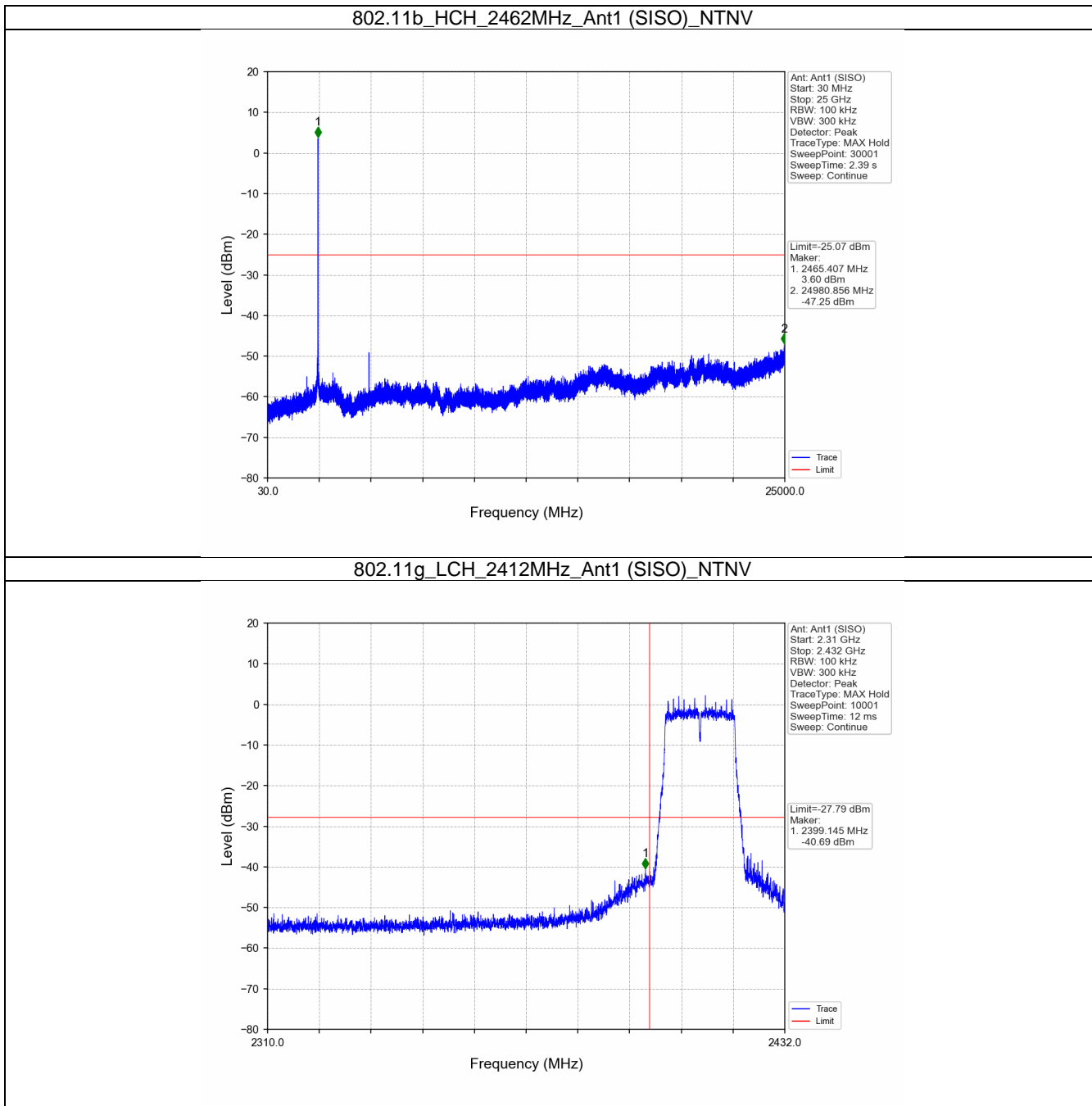
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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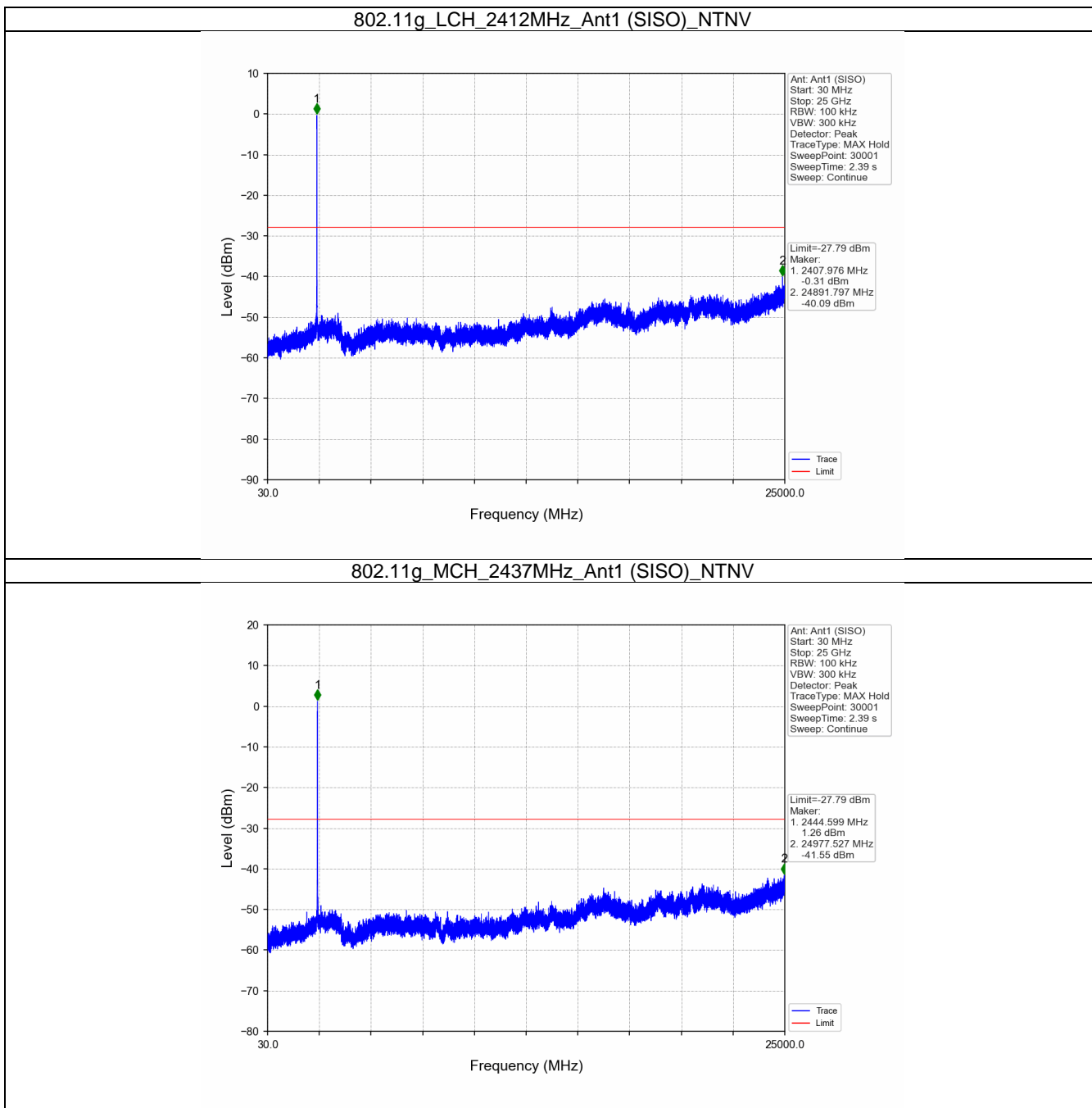
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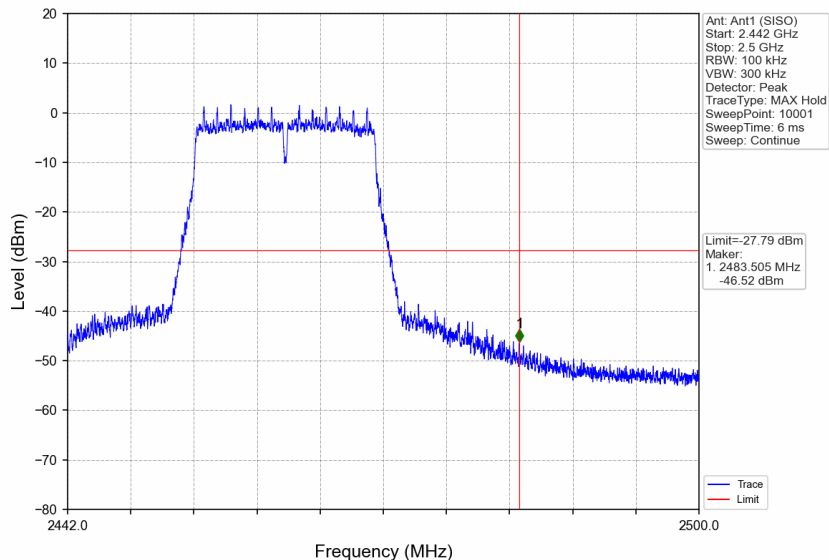


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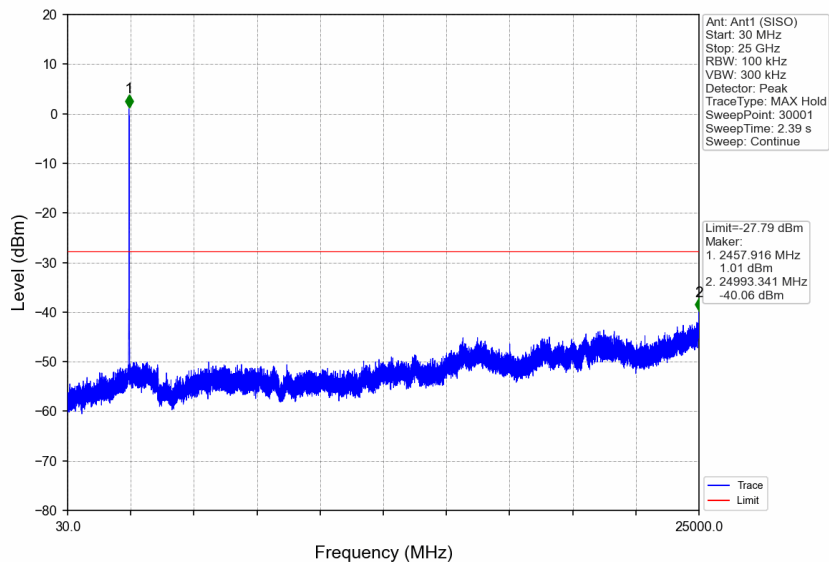
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

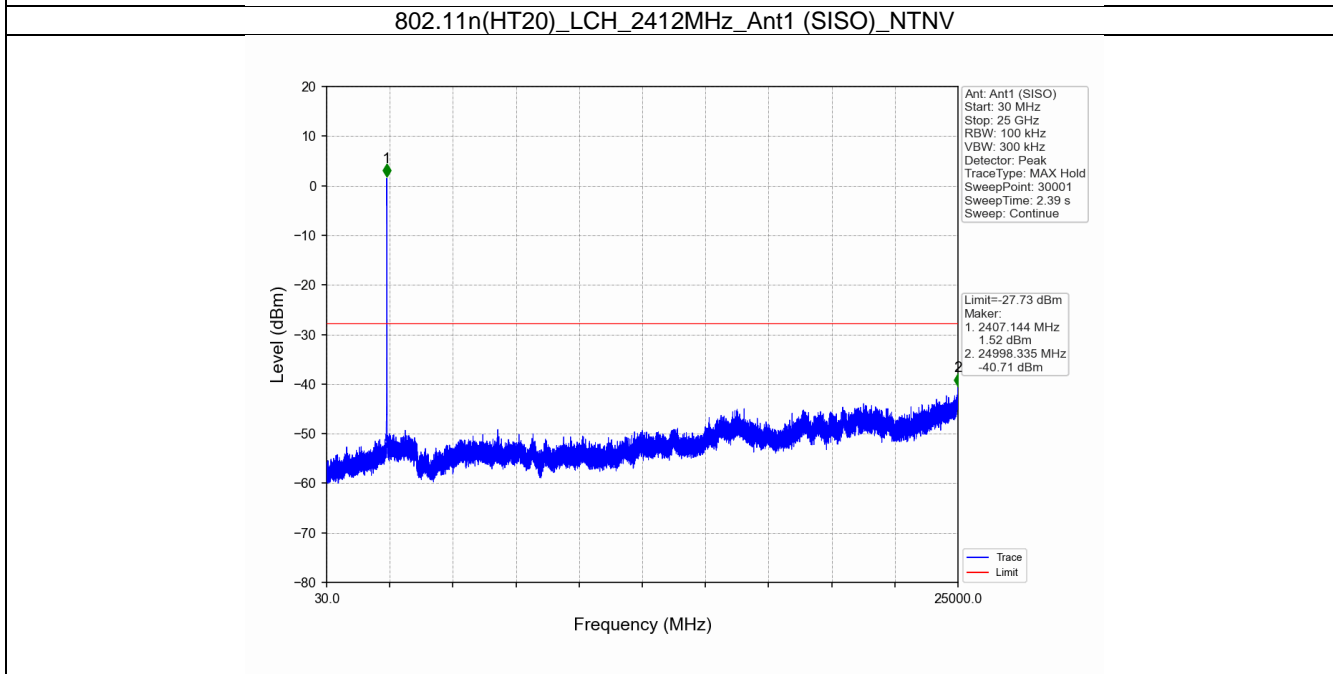
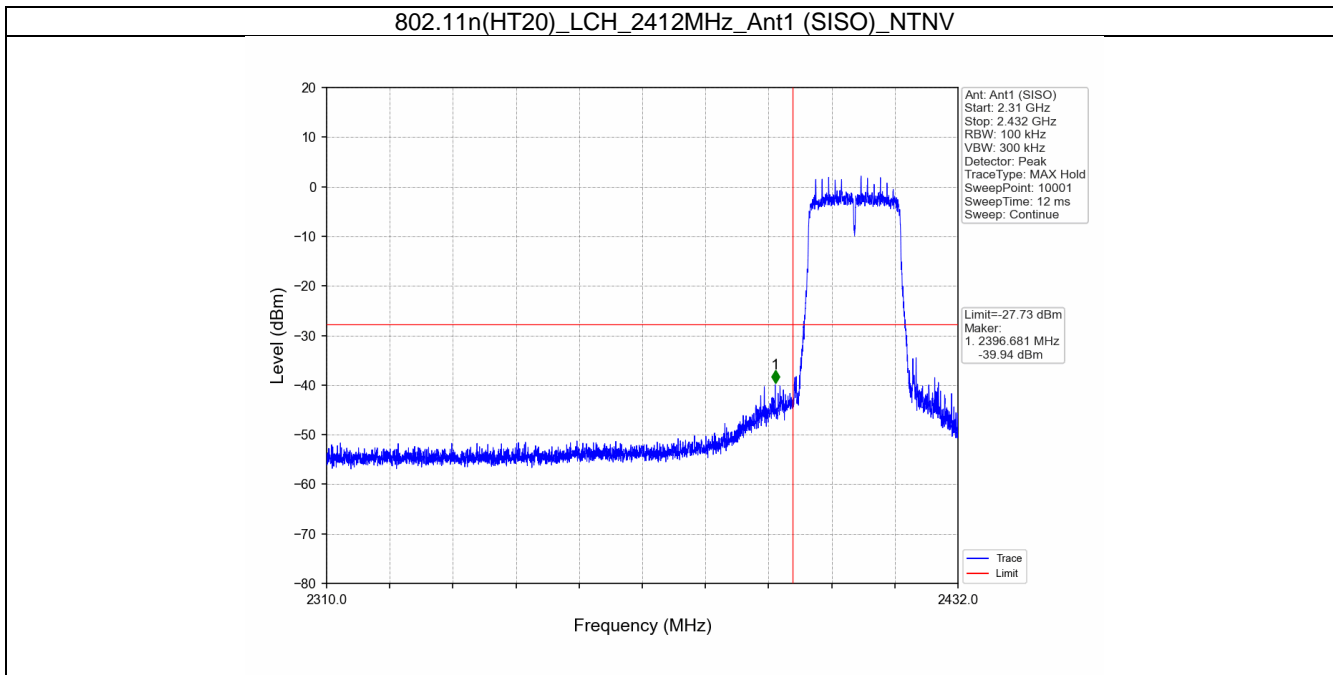


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



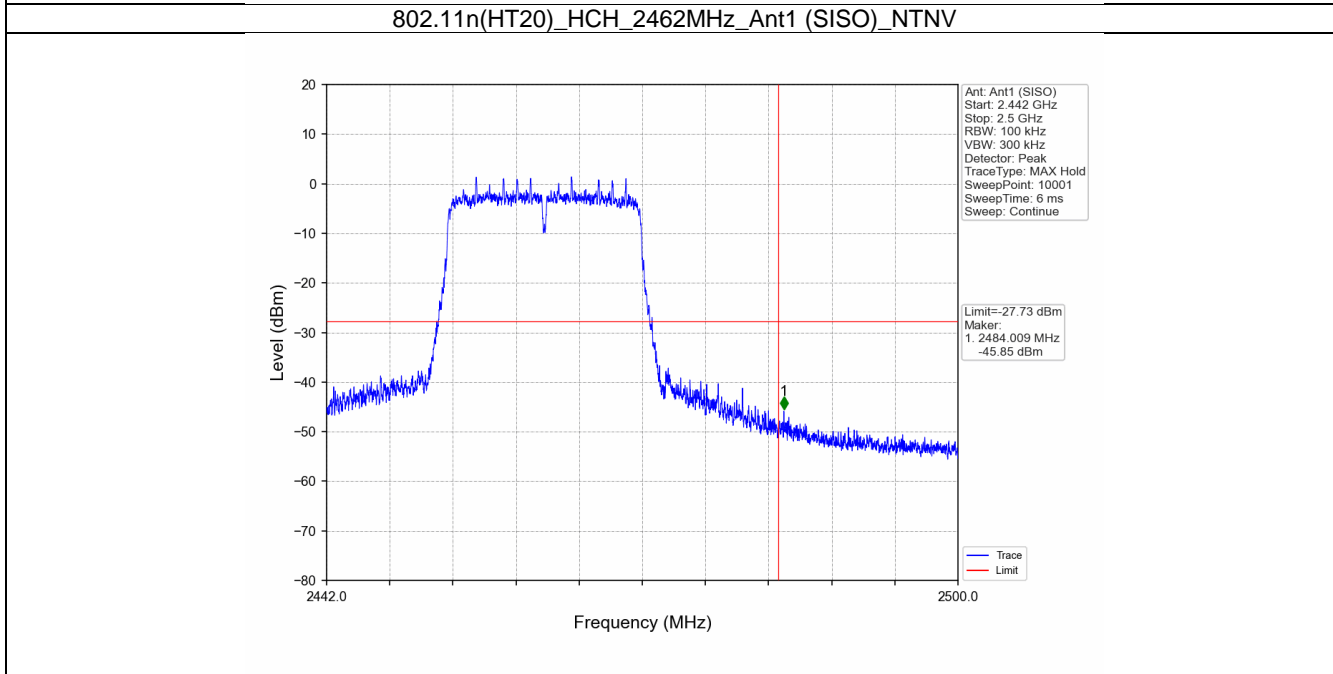
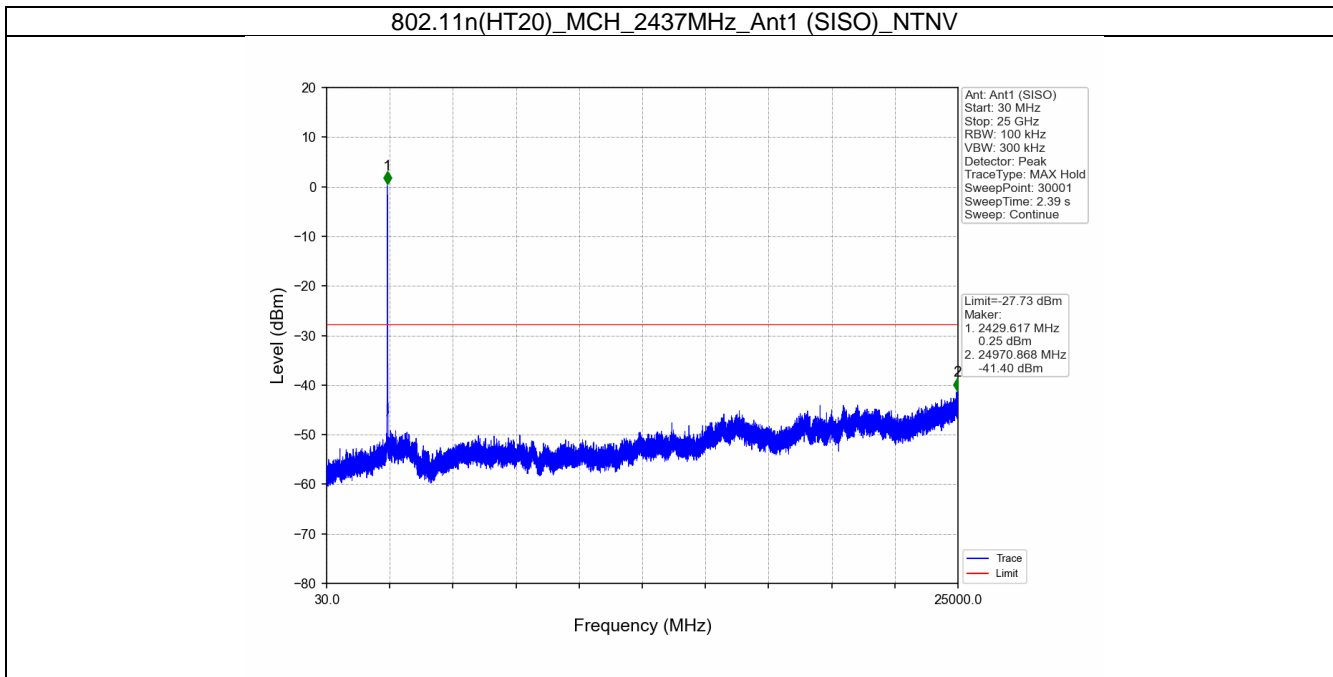
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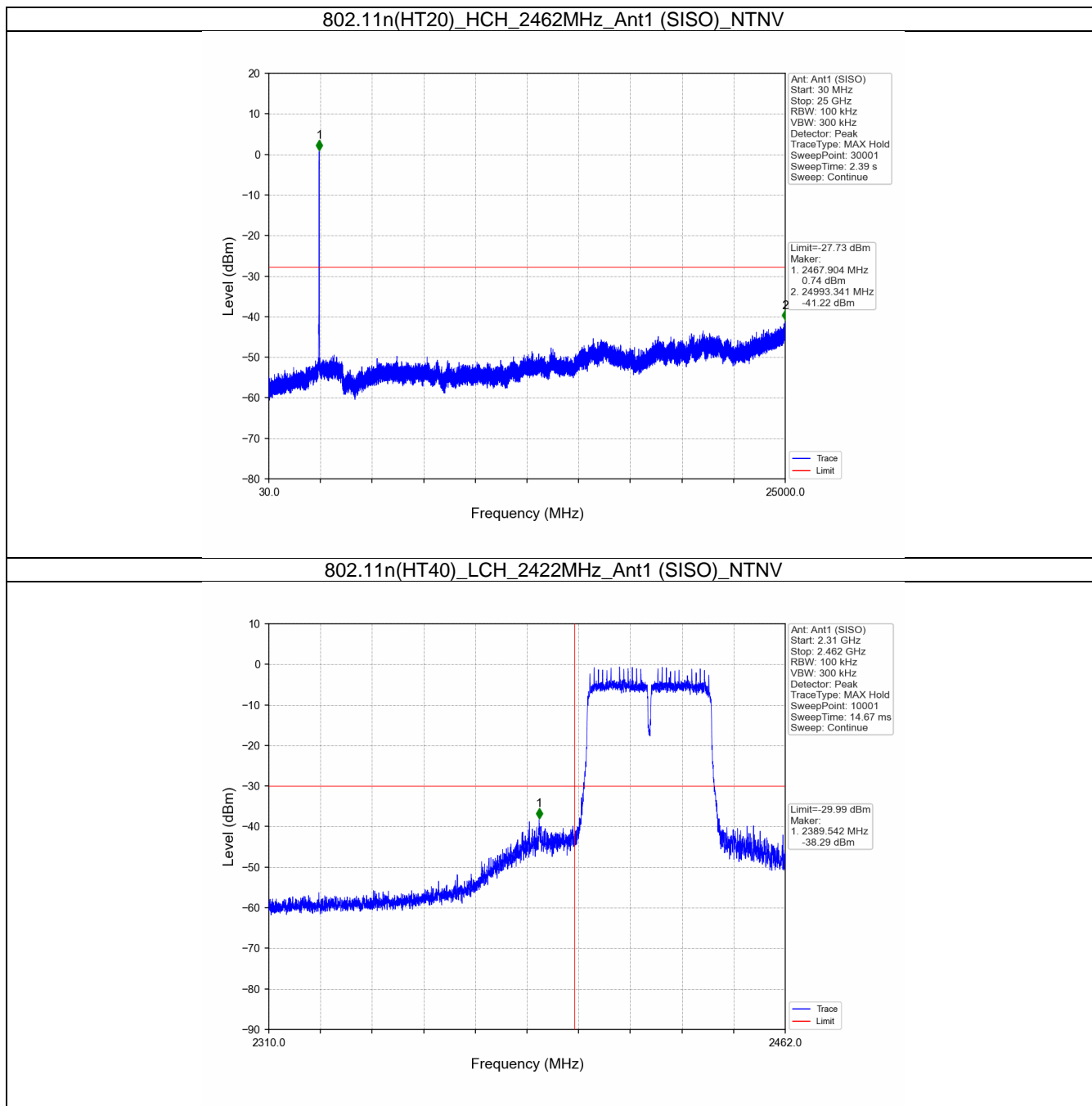
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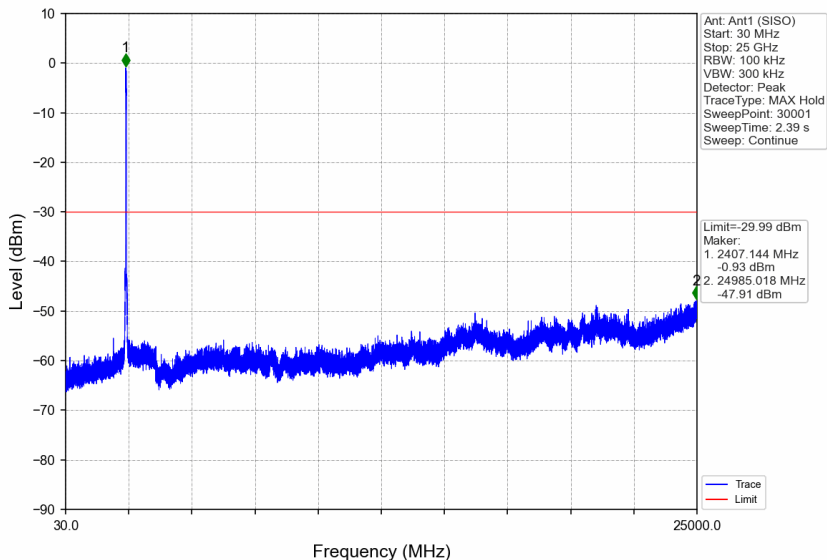
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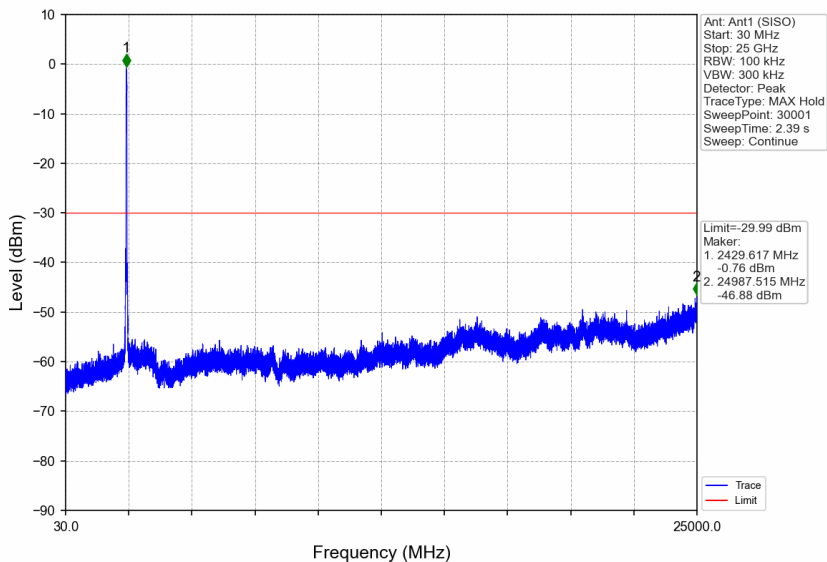
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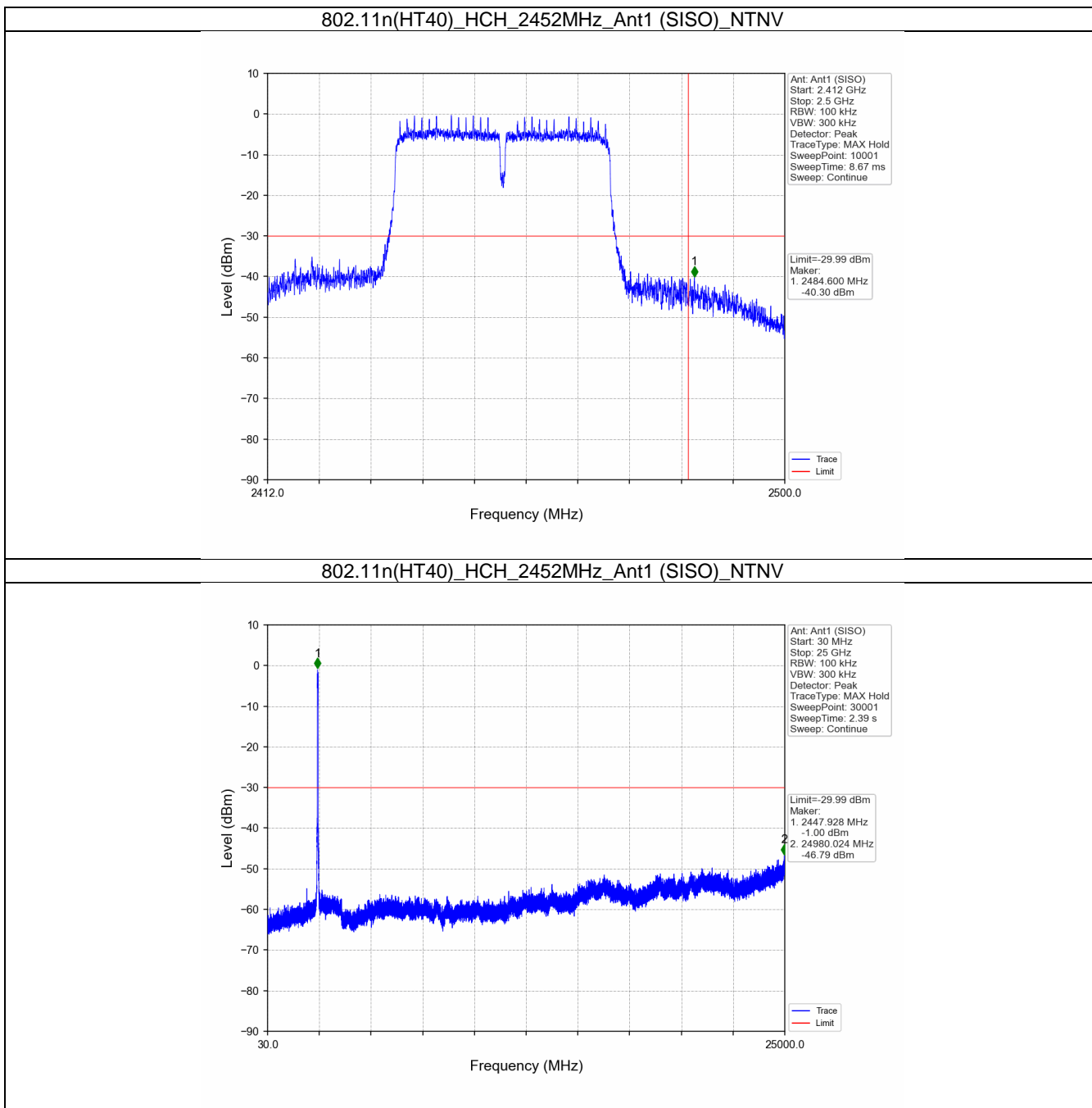
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6. Form731

6.1 Form731

6.1.1 Test Result

Lower Freq	High Freq	MAX Power (W)	MAX Power (dBm)
2412	2462	0.0243	13.86
2422	2452	0.0258	14.12



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