

### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Power Setting	Measured Peak Output Power (dBm)			Limit (dBm)	Verdict
						Ant1	Ant2	Sum		
802.11b	SISO	2412	/	/	21	22.50	22.95	/	<=30	Pass
		2437	/	/	21	19.39	20.07	/	<=30	Pass
		2462	/	/	21	20.59	20.26	/	<=30	Pass
802.11g	SISO	2412	/	/	25	23.48	23.85	/	<=30	Pass
		2437	/	/	25	21.39	21.84	/	<=30	Pass
		2462	/	/	25	22.33	22.03	/	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	23	22.04	22.53	<b>25.30</b>	<=29.79	Pass
		2437	/	/	23	19.80	20.54	23.20	<=29.79	Pass
		2462	/	/	23	20.60	20.66	23.64	<=29.79	Pass
802.11n (HT40)	MIMO	2422	/	/	20	19.14	19.47	22.32	<=29.79	Pass
		2437	/	/	20	18.94	19.06	22.01	<=29.79	Pass
		2452	/	/	20	19.62	19.49	22.57	<=29.79	Pass

Note1: Antenna1 Gain: 3.20dBi; Antenna2 Gain: 3.20dBi;  
 Note2: Note: Directional gain=G<sub>ant</sub> + Array gain= G<sub>Ant</sub> + 10\*log(N<sub>Ant</sub>/N<sub>ss</sub>) = 3.2+10\*log(2/1) =6.21dBi.



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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

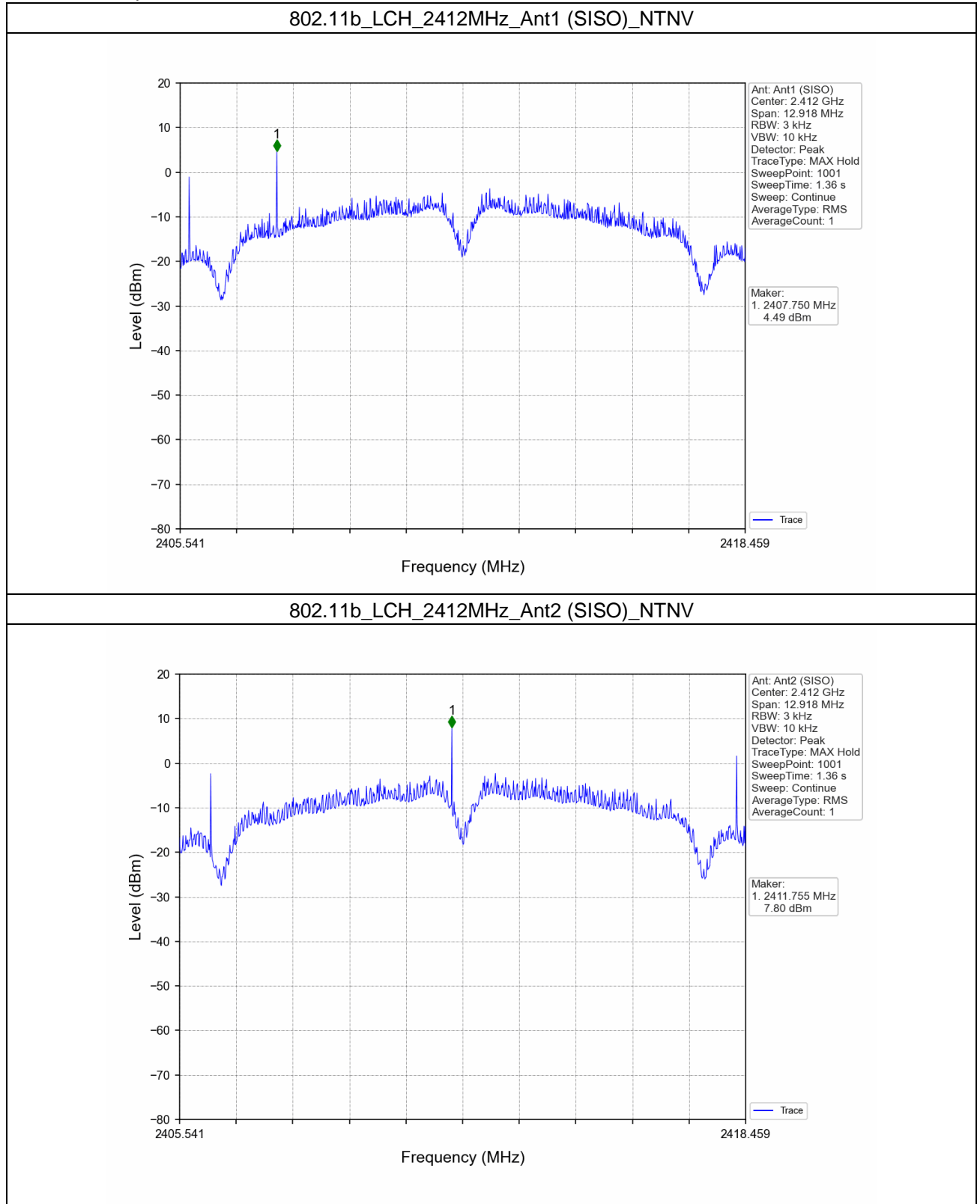
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)			Limit (dBm/3kHz)	Verdict
					Ant1	Ant2	Sum		
802.11b	SISO	2412	/	/	4.49	7.80	/	<=8	Pass
		2437	/	/	7.64	7.85	/	<=8	Pass
		2462	/	/	-6.10	4.50	/	<=8	Pass
802.11g	SISO	2412	/	/	-2.53	-1.86	/	<=8	Pass
		2437	/	/	-5.04	-4.48	/	<=8	Pass
		2462	/	/	-3.24	-4.08	/	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-3.73	-3.10	-1.03	<=8	Pass
		2437	/	/	-6.58	-5.82	-3.95	<=8	Pass
		2462	/	/	-4.79	-4.78	-2.63	<=8	Pass
802.11n (HT40)	MIMO	2422	/	/	-8.78	-8.77	-6.00	<=8	Pass
		2437	/	/	-10.75	-9.42	-7.82	<=8	Pass
		2452	/	/	-6.28	-7.55	-4.35	<=8	Pass

Note1: Antenna1 Gain: 3.20dBi; Antenna2 Gain: 3.20dBi;  
 Note2: Note: Directional gain= $G_{ant} + \text{Array gain} = G_{Ant} + 10 \cdot \log(N_{Ant}/N_{ss}) = 3.2 + 10 \cdot \log(2/1) = 6.21\text{dBi}$ .



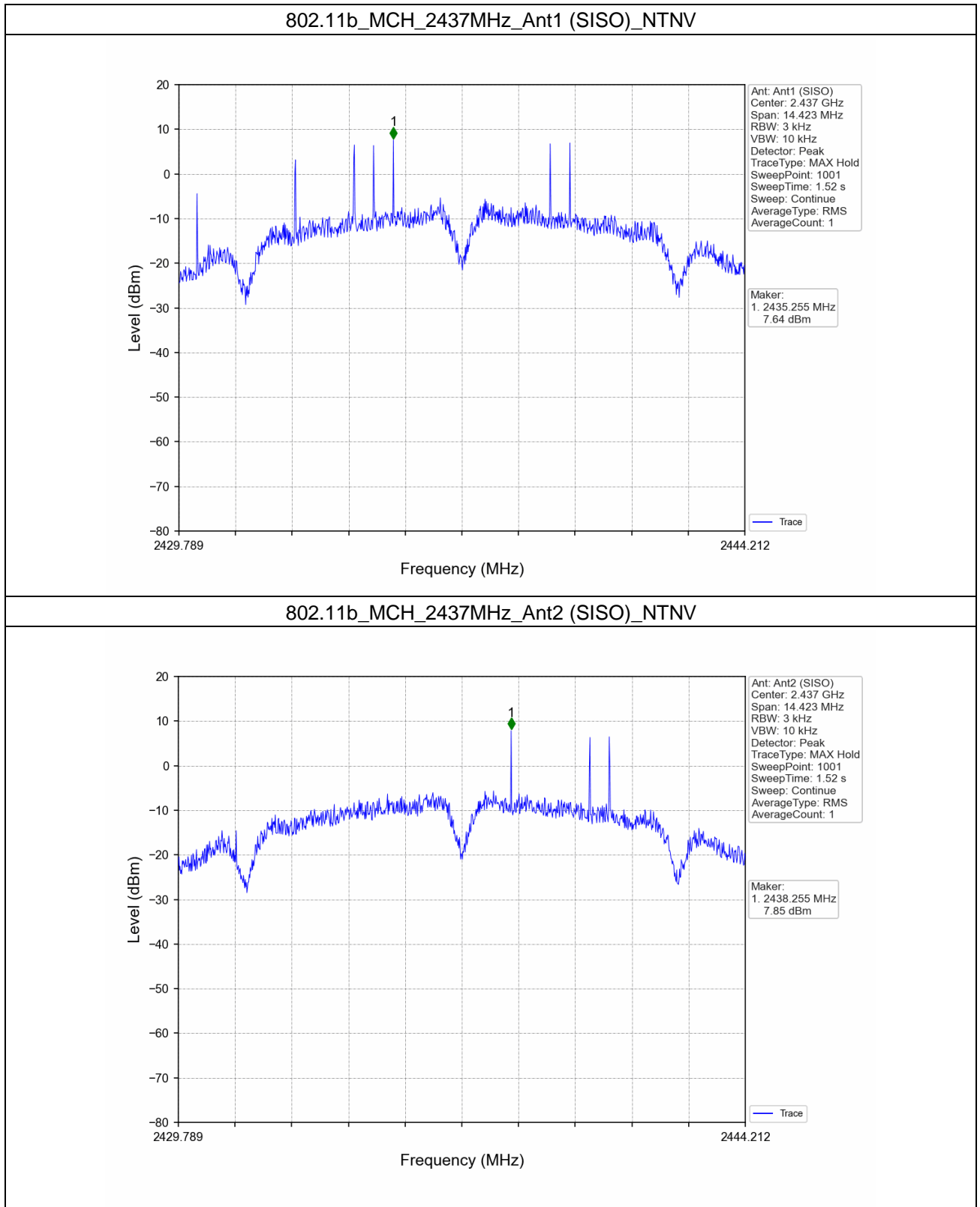
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### 4.1.2 Test Graph



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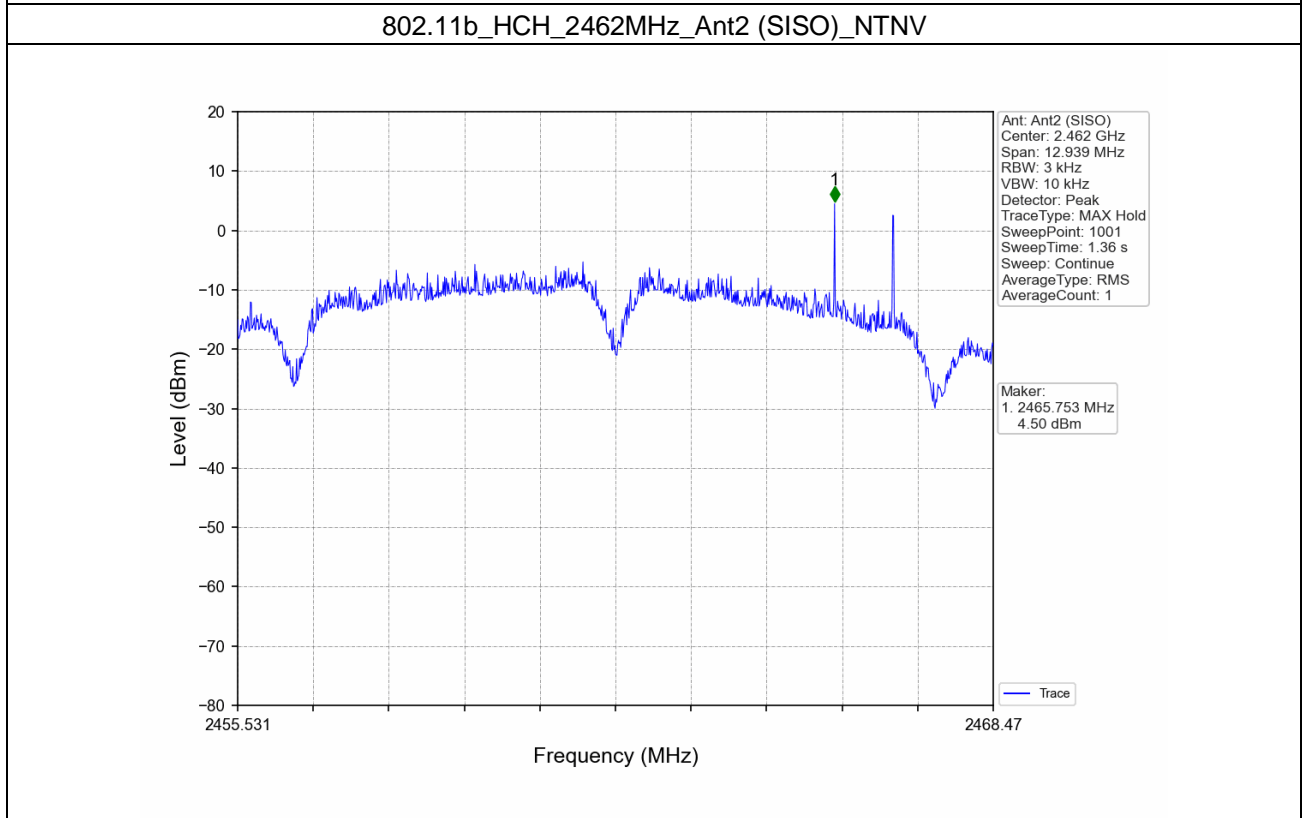
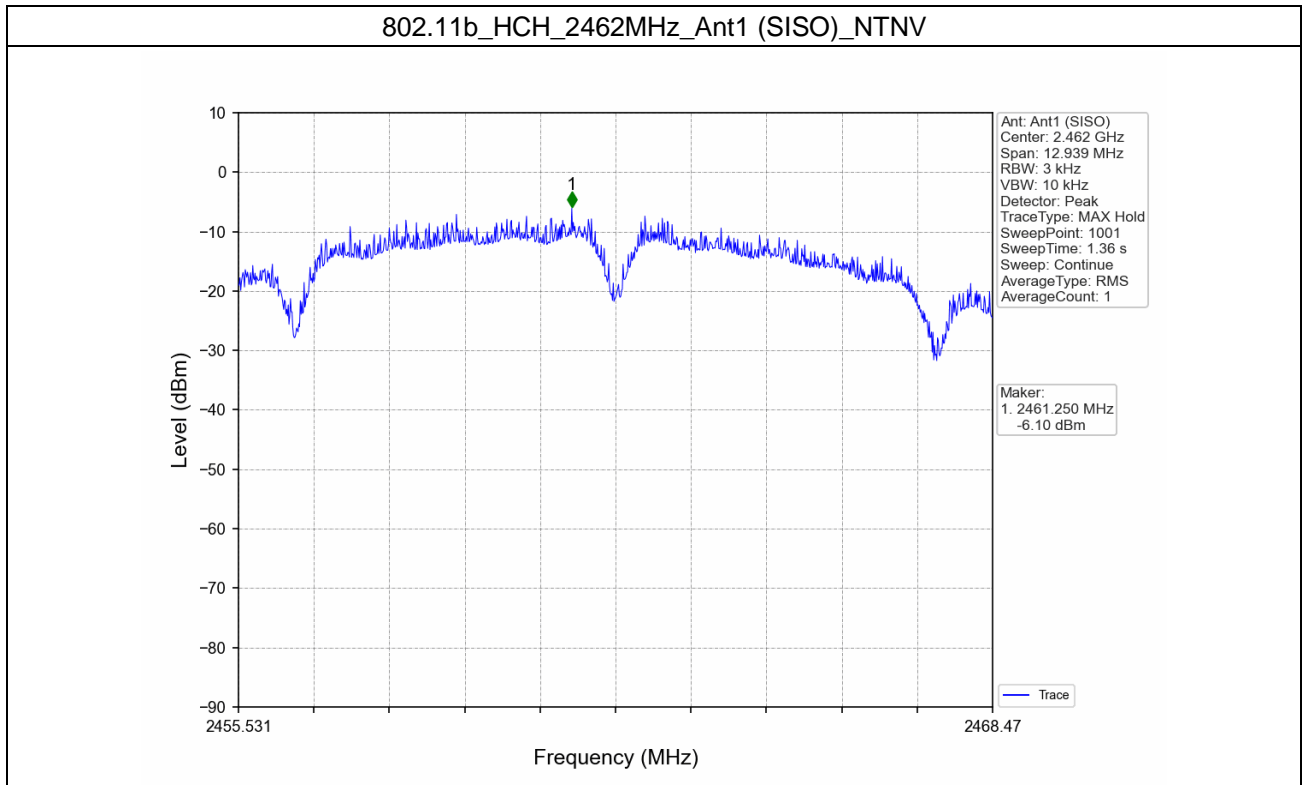
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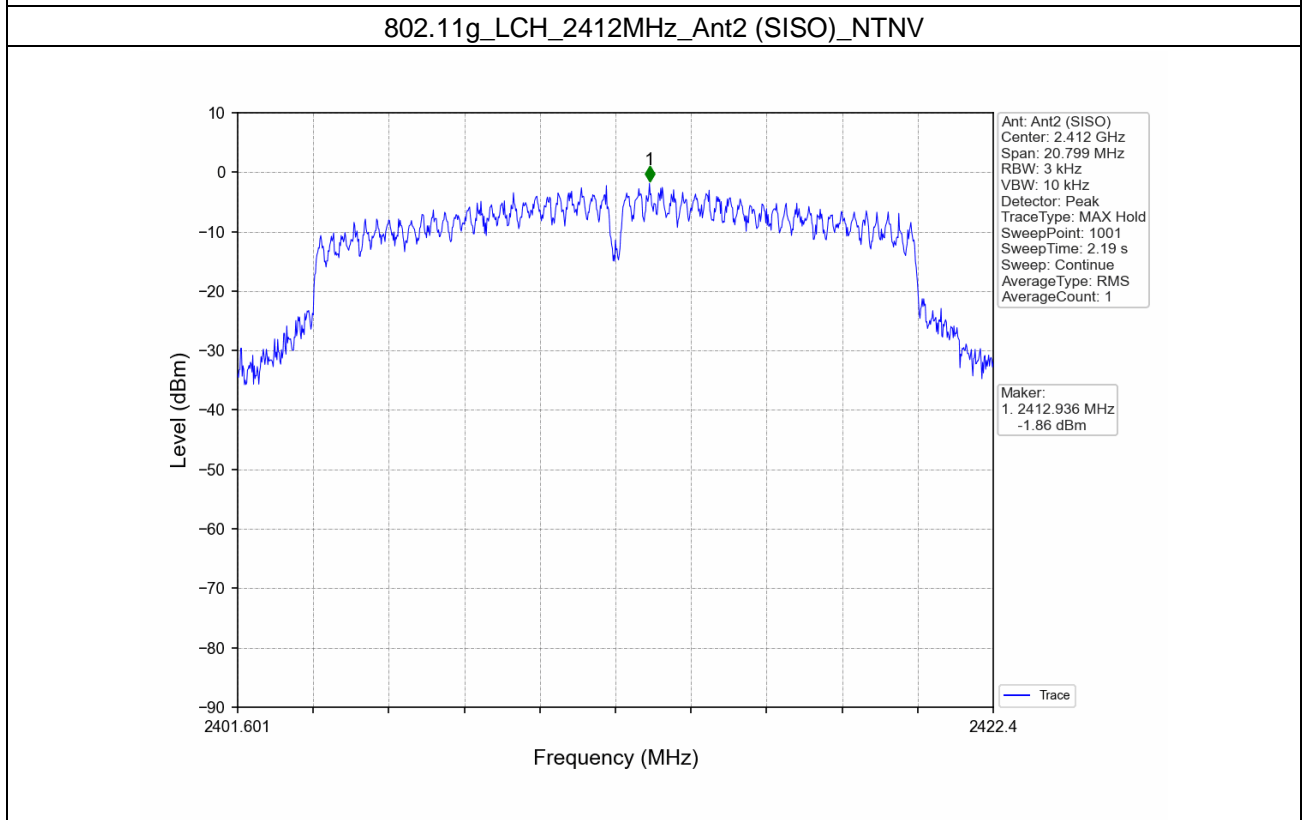
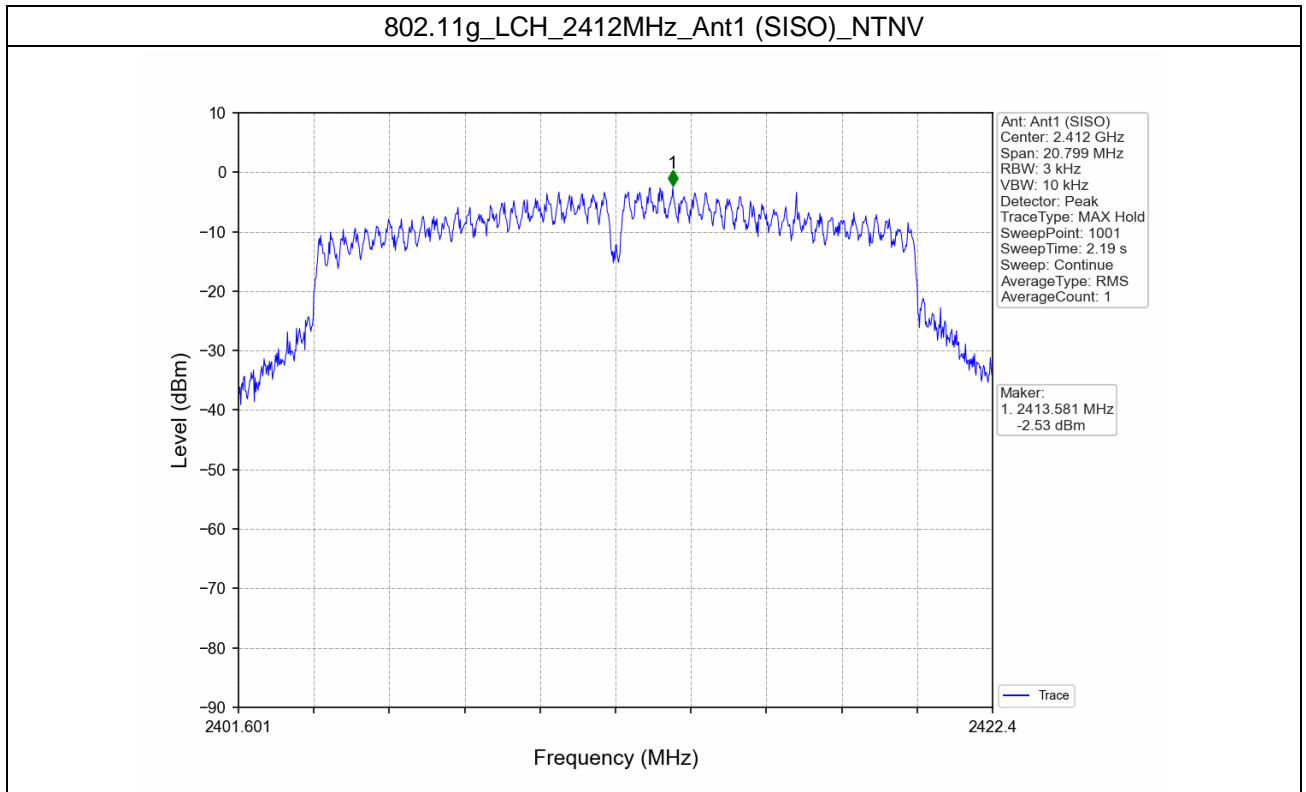
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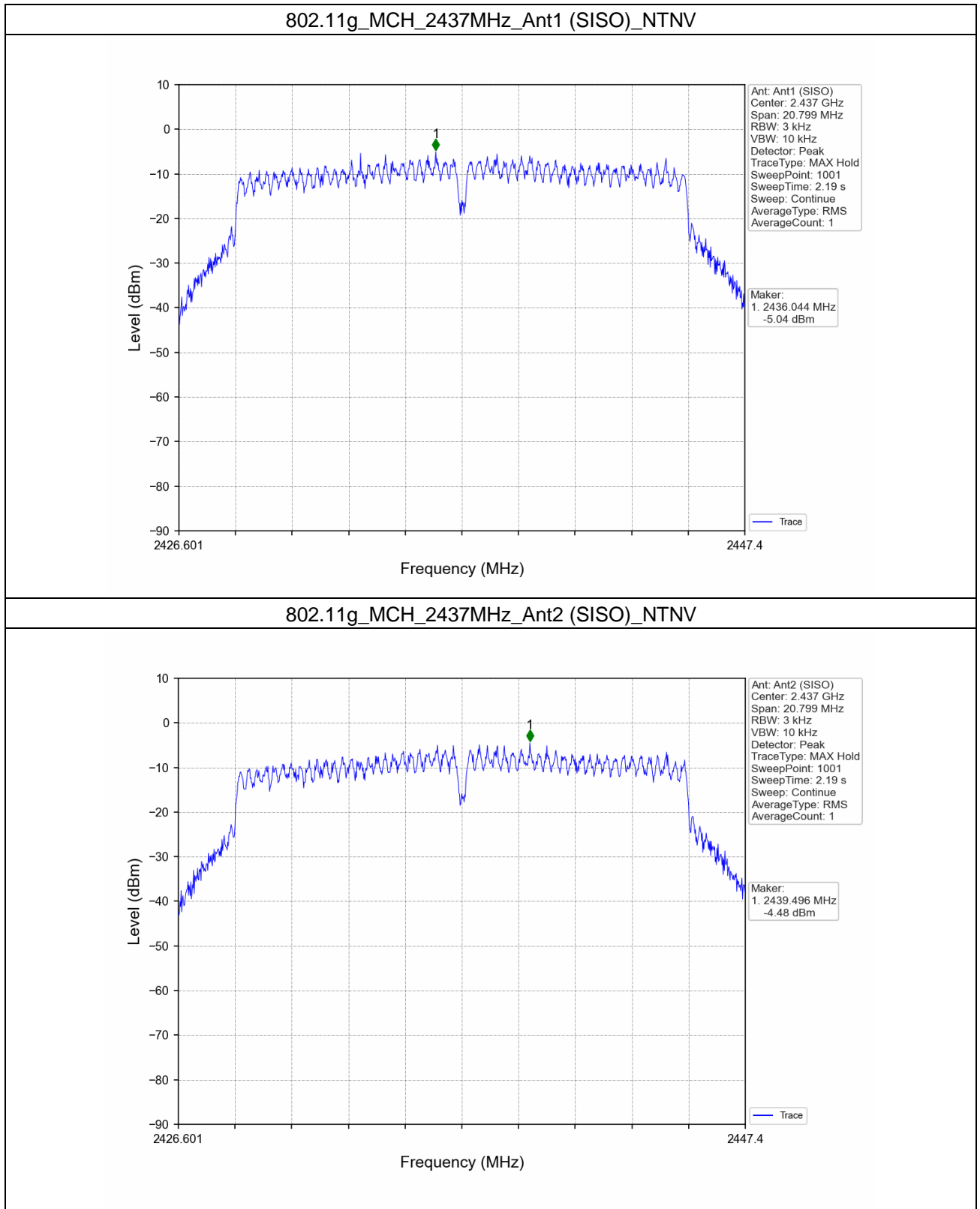
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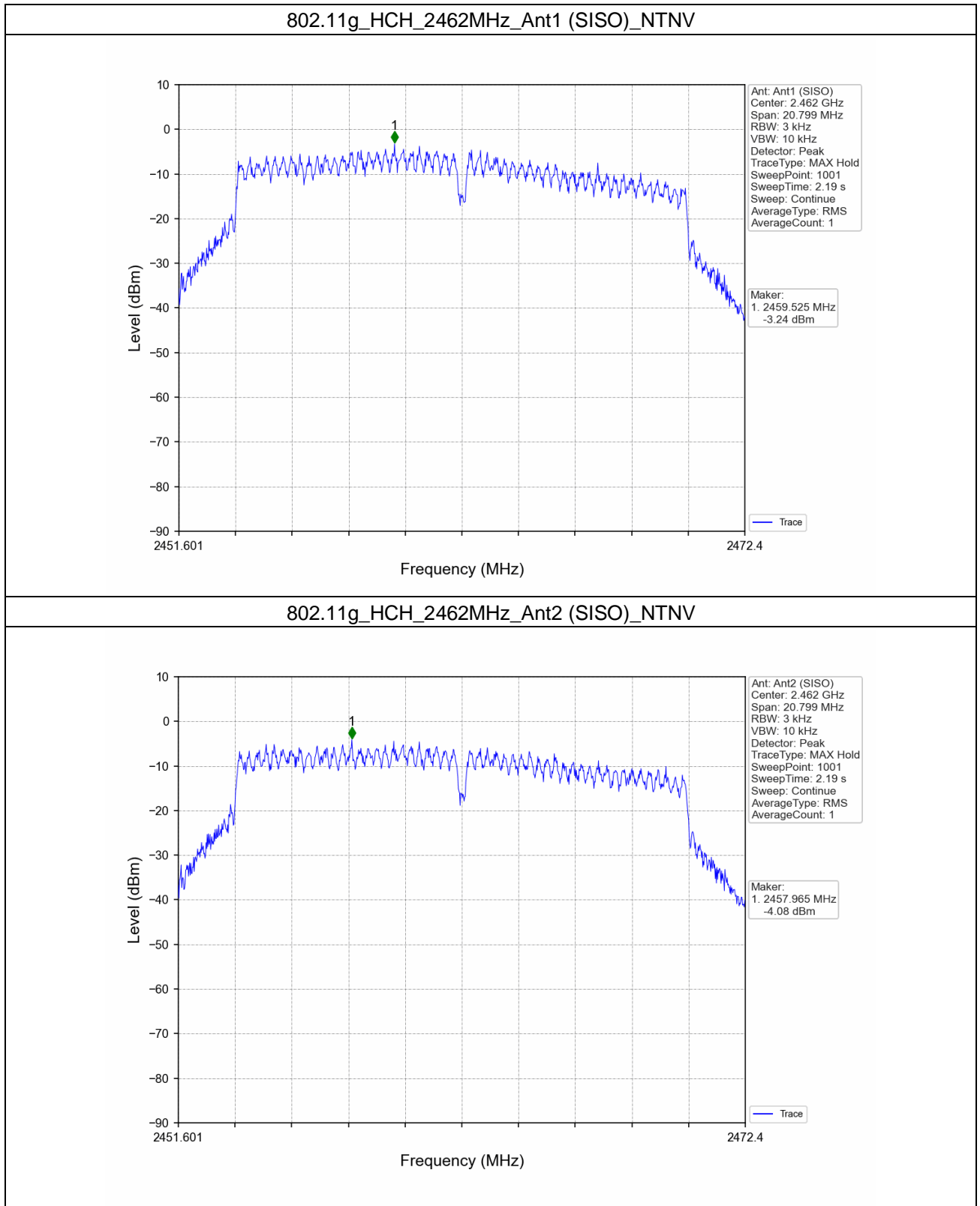
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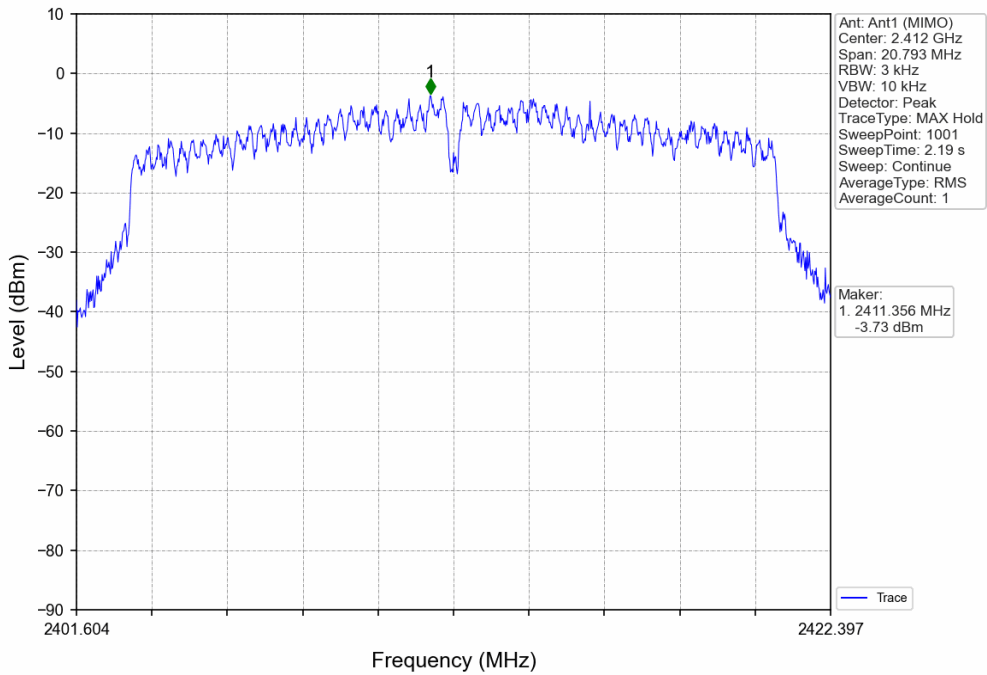


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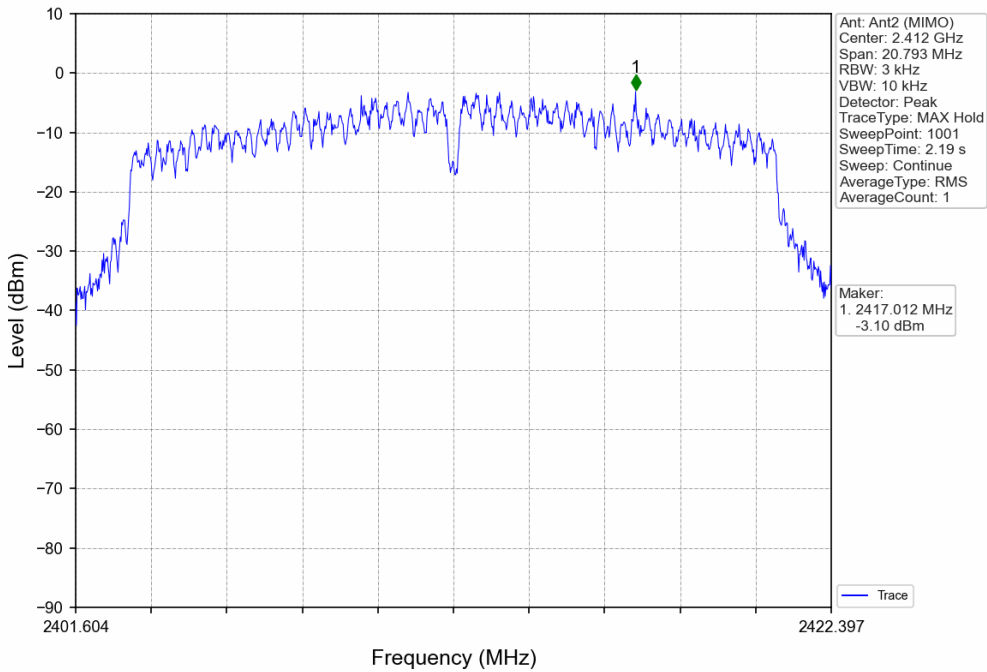
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV

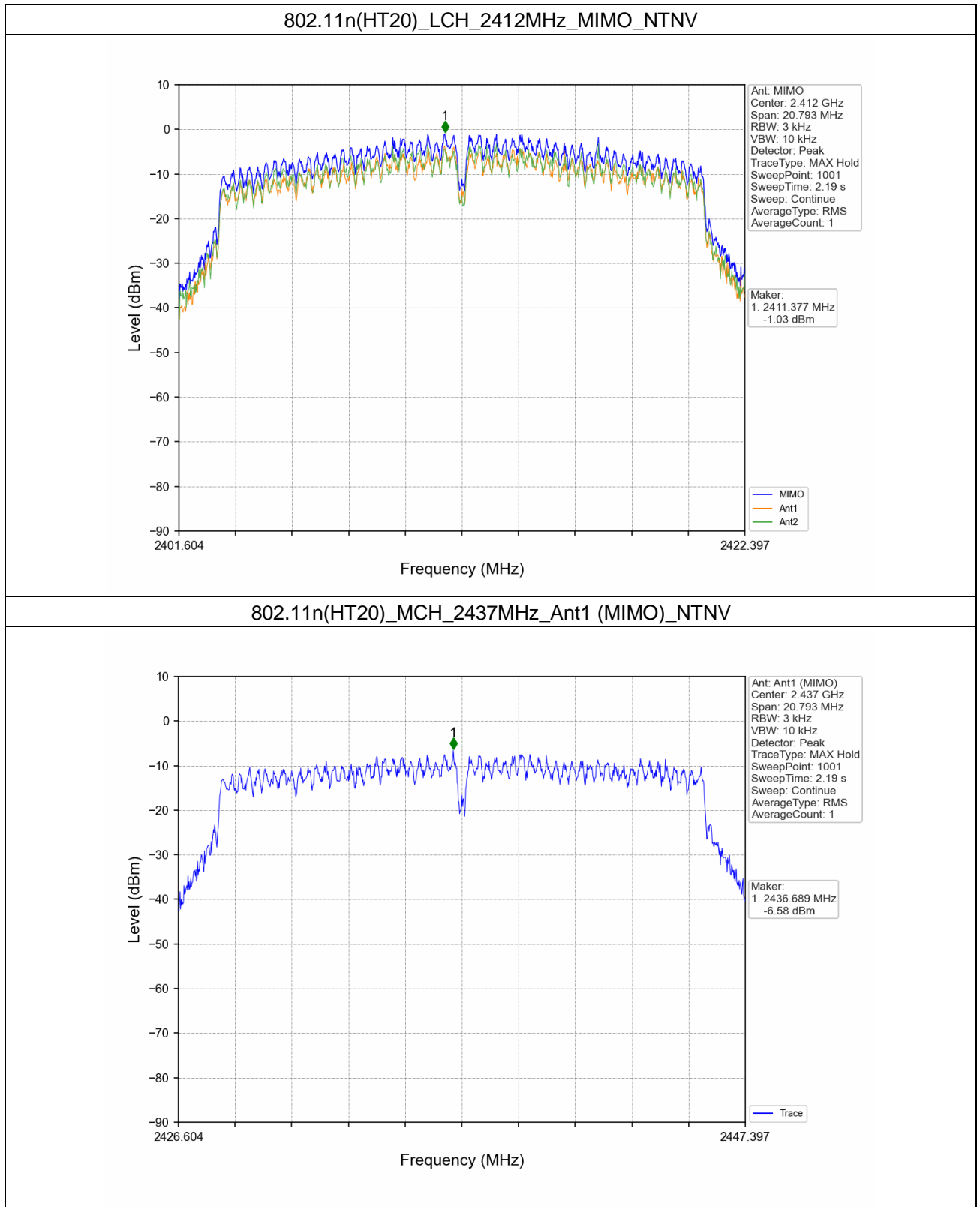


802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



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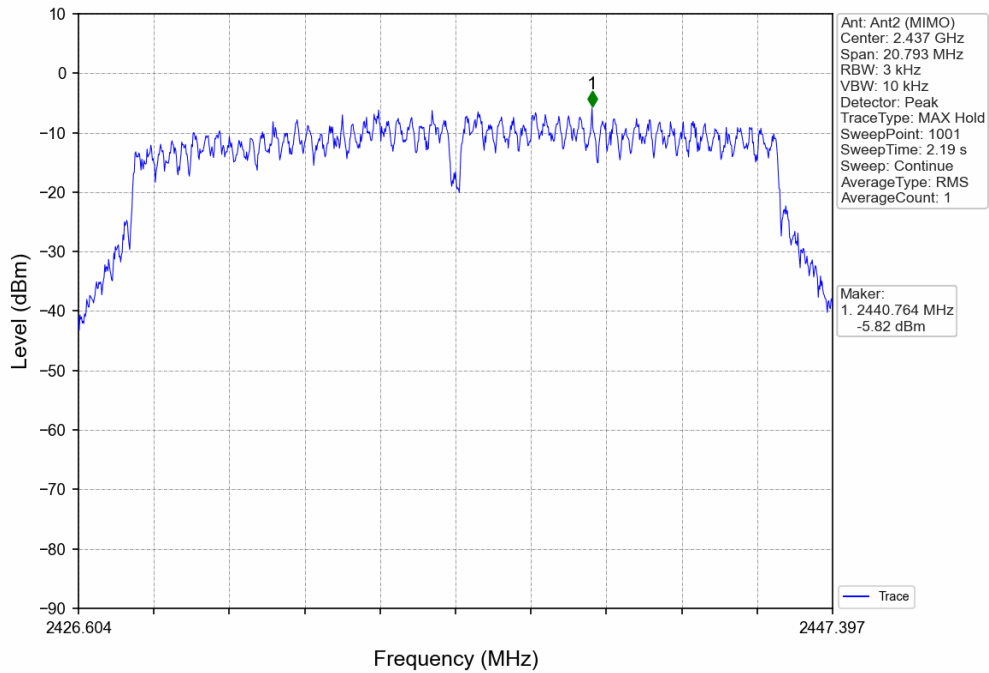
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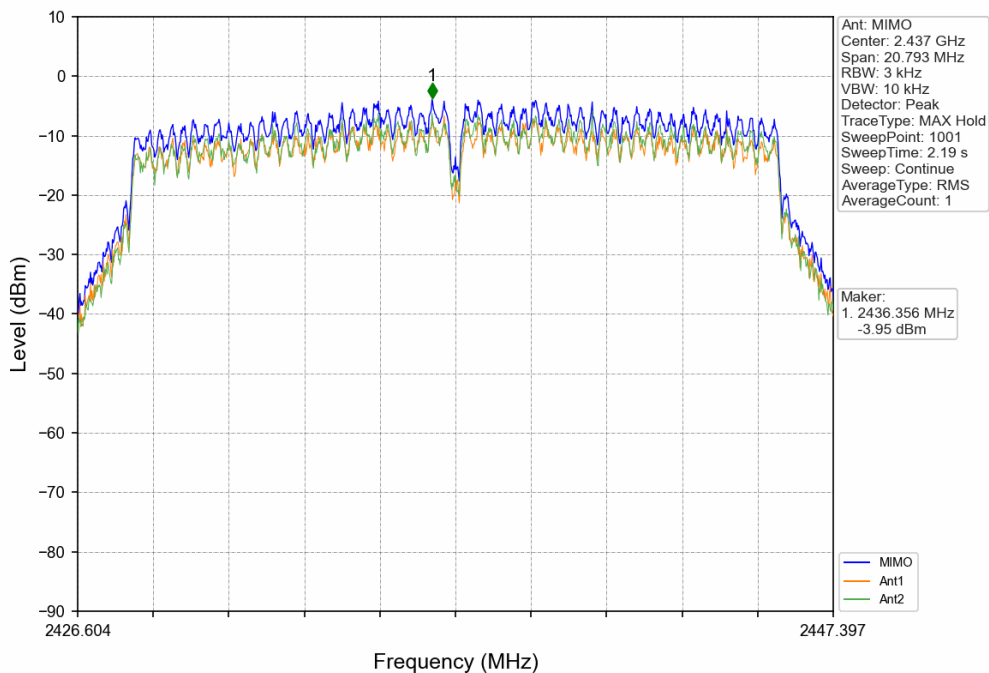
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802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



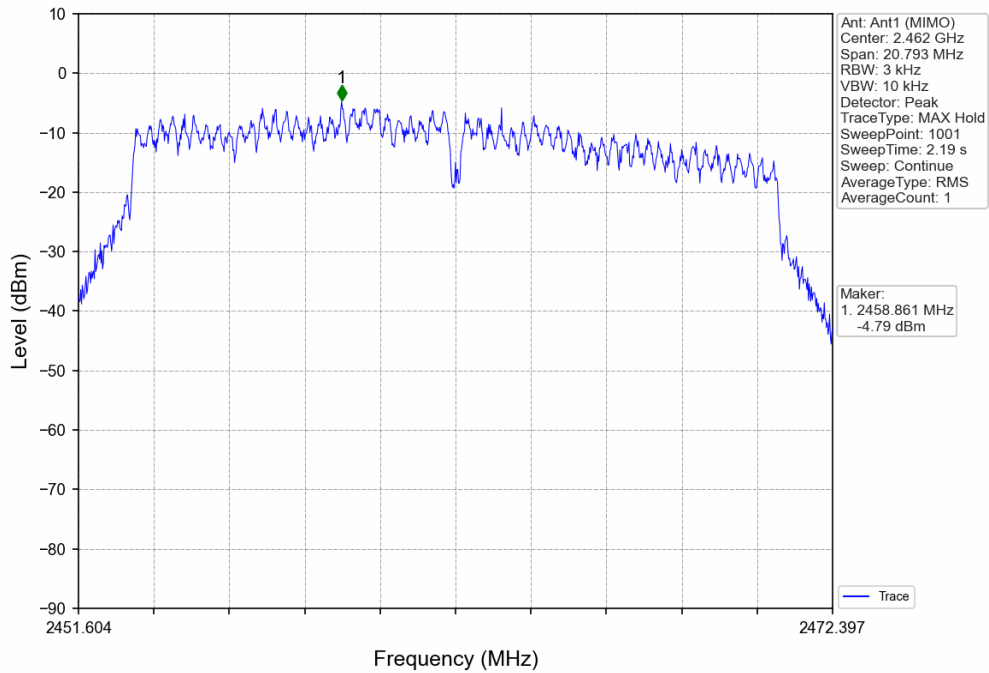
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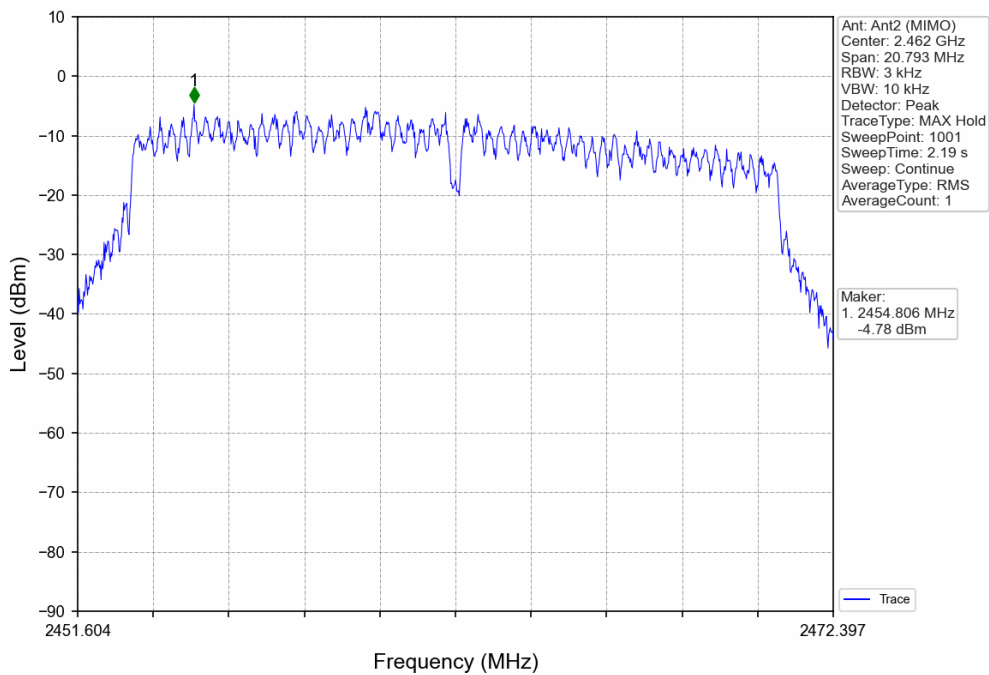
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



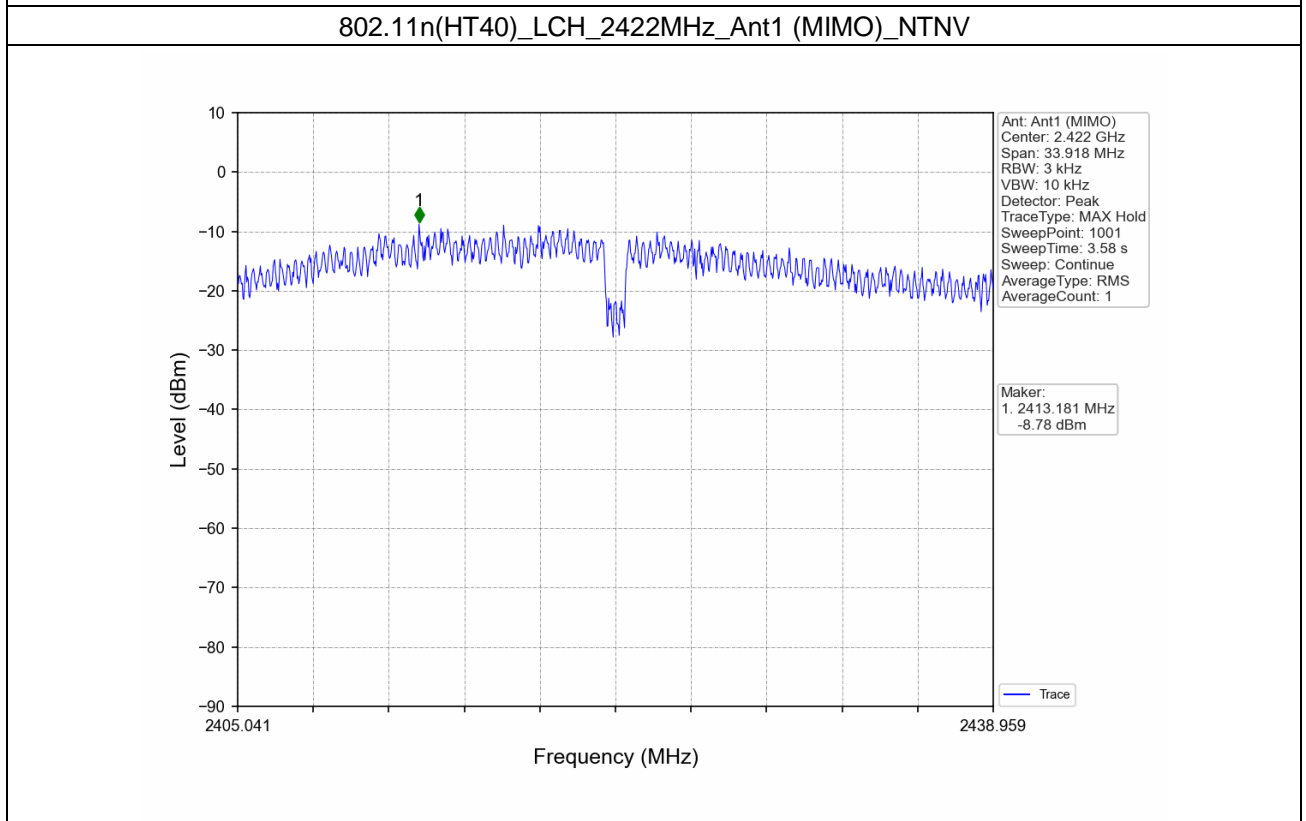
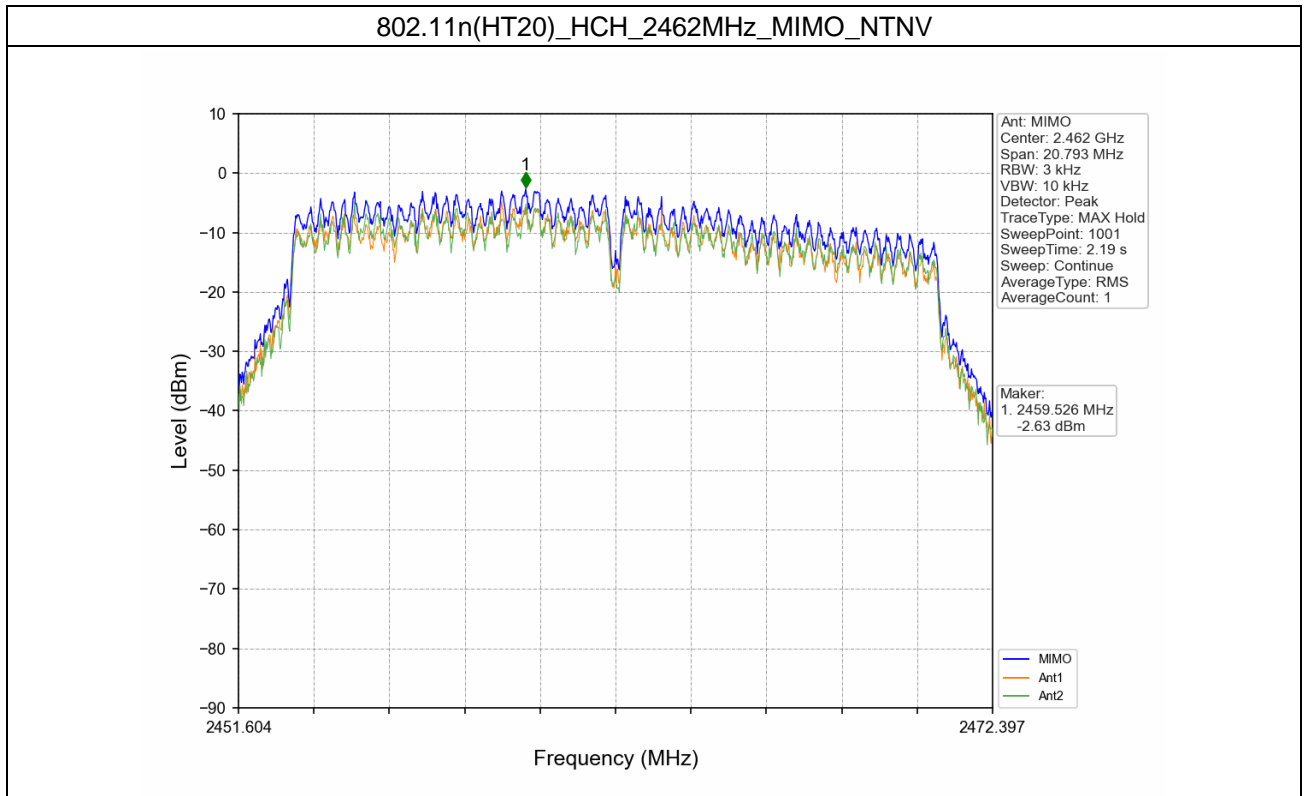
802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



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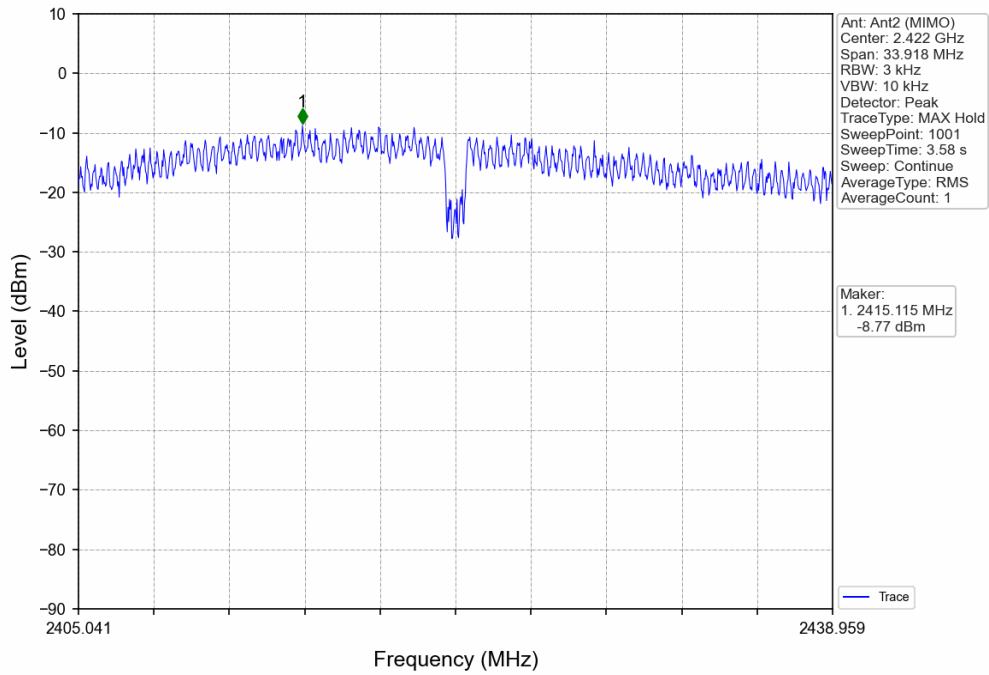
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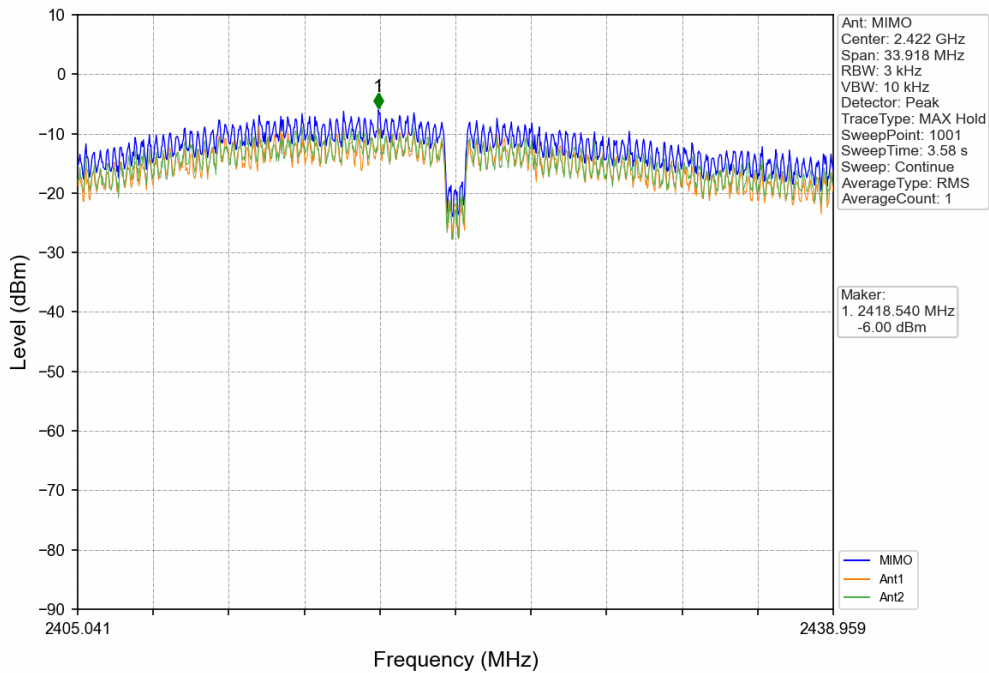


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802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_MIMO\_NTNV

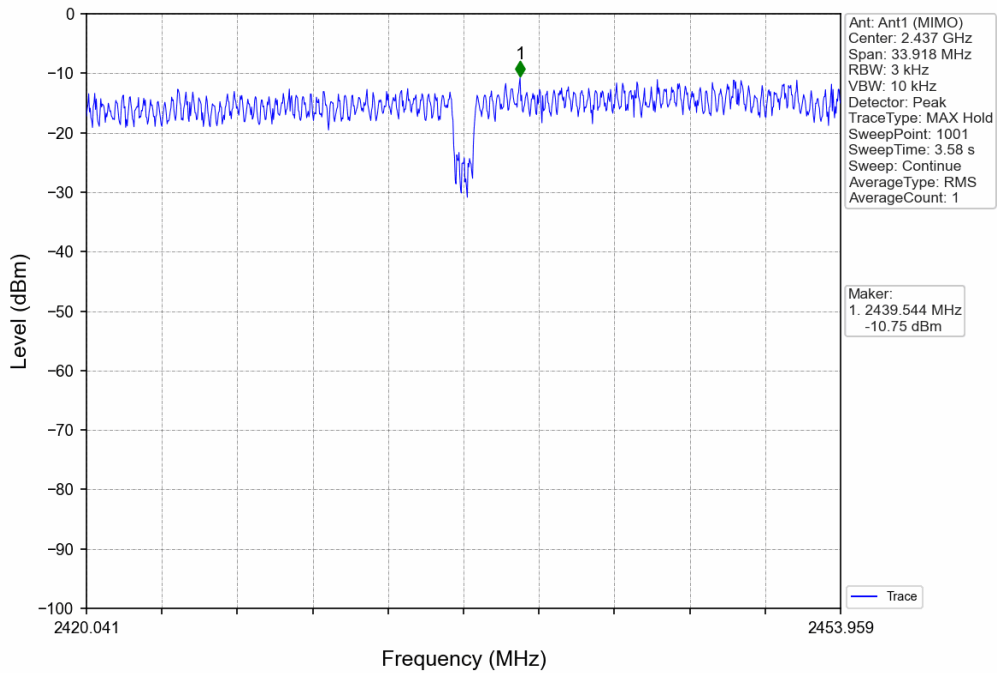


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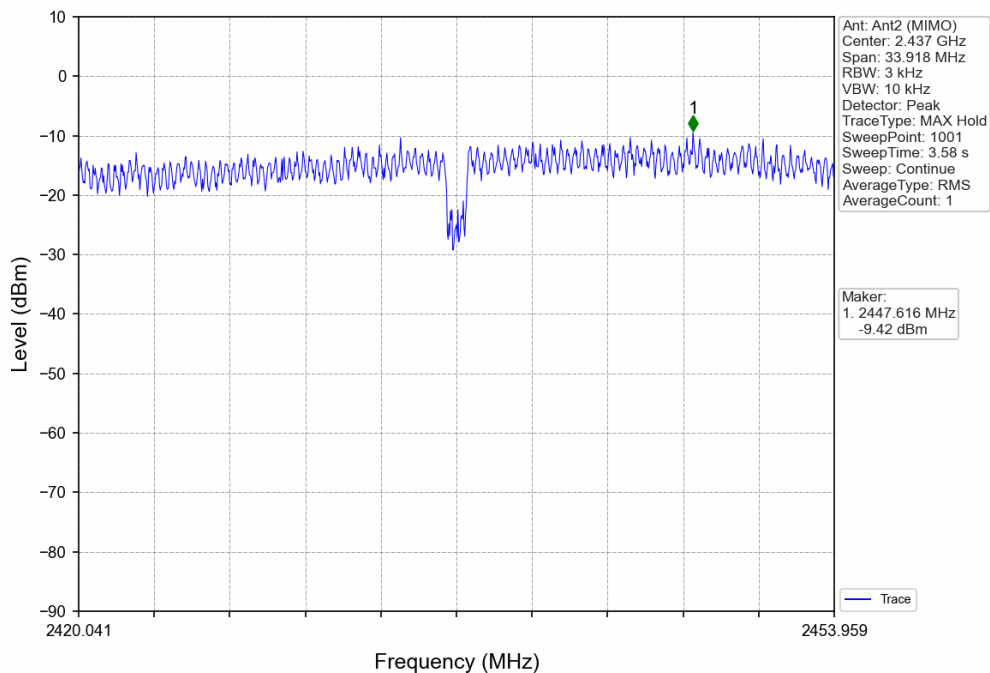
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV

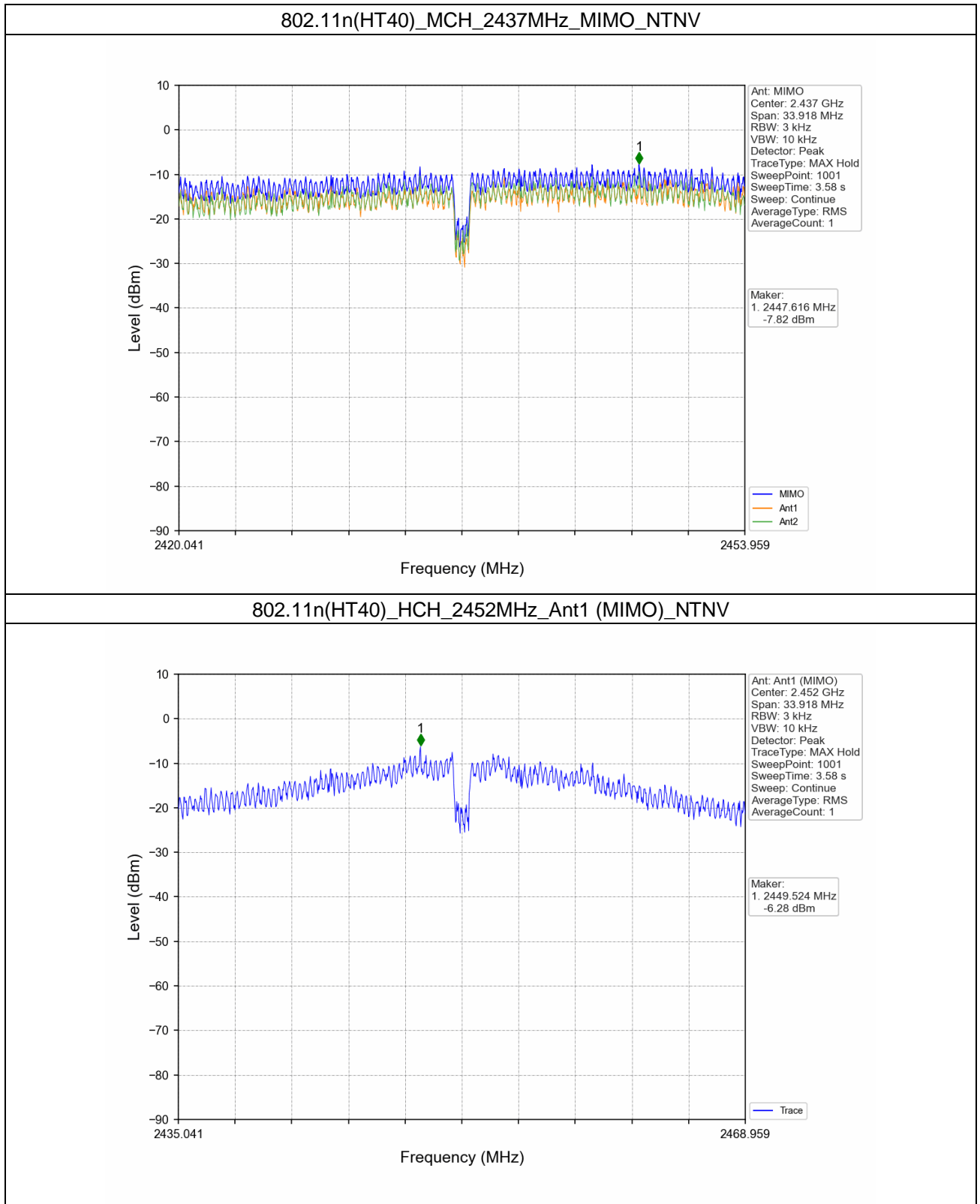


802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



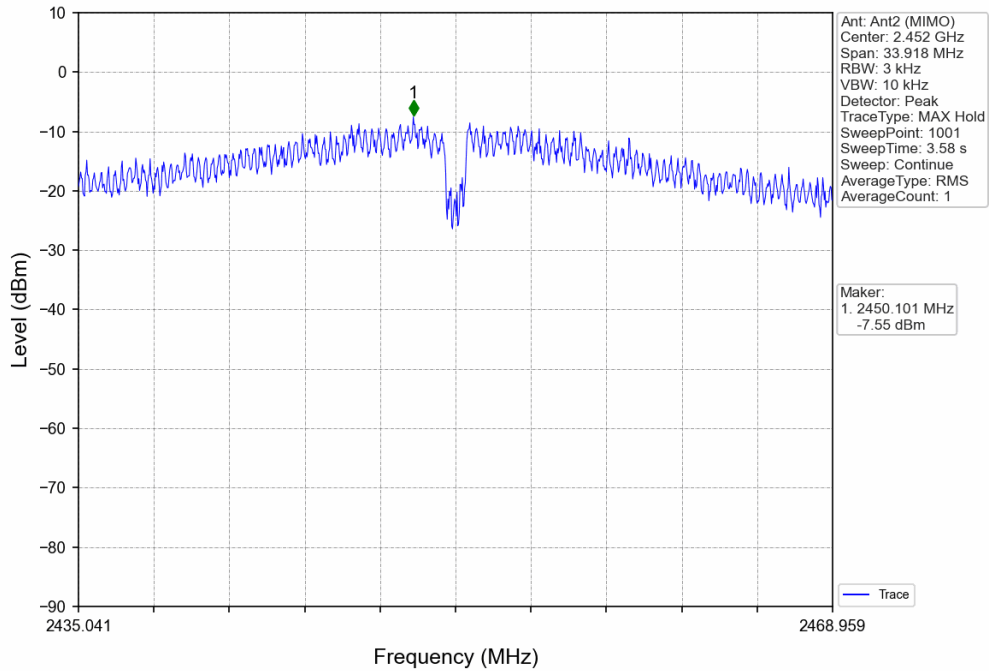
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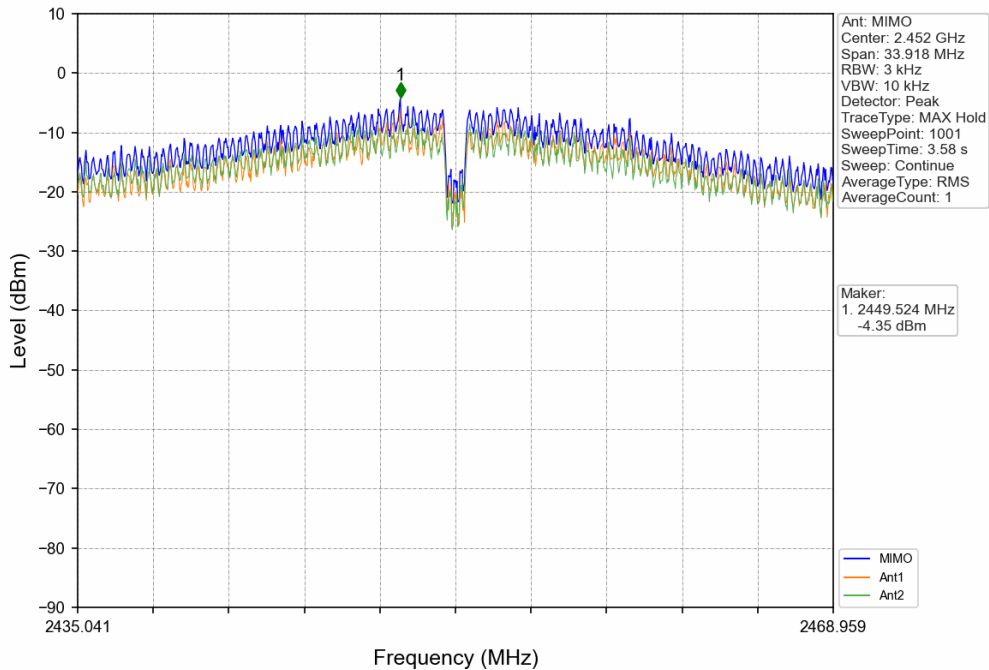




802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_MIMO\_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)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	13.23	/	/
					2	13.55	/	/
		2437	/	/	1	9.46	/	/
					2	10.35	/	/
		2462	/	/	1	11.32	/	/
					2	10.57	/	/
802.11g	SISO	2412	/	/	1	14.67	/	/
					2	14.22	/	/
		2437	/	/	1	11.15	/	/
					2	11.85	/	/
		2462	/	/	1	11.33	/	/
					2	10.57	/	/
802.11n (HT20)	MIMO	2412	/	/	1	12.89	/	/
					2	13.20	/	/
		2437	/	/	1	9.33	/	/
					2	9.76	/	/
		2462	/	/	1	11.36	/	/
					2	10.61	/	/
802.11n (HT40)	MIMO	2422	/	/	1	7.68	/	/
					2	7.61	/	/
		2437	/	/	1	5.62	/	/
					2	5.45	/	/
		2452	/	/	1	8.68	/	/
					2	8.14	/	/

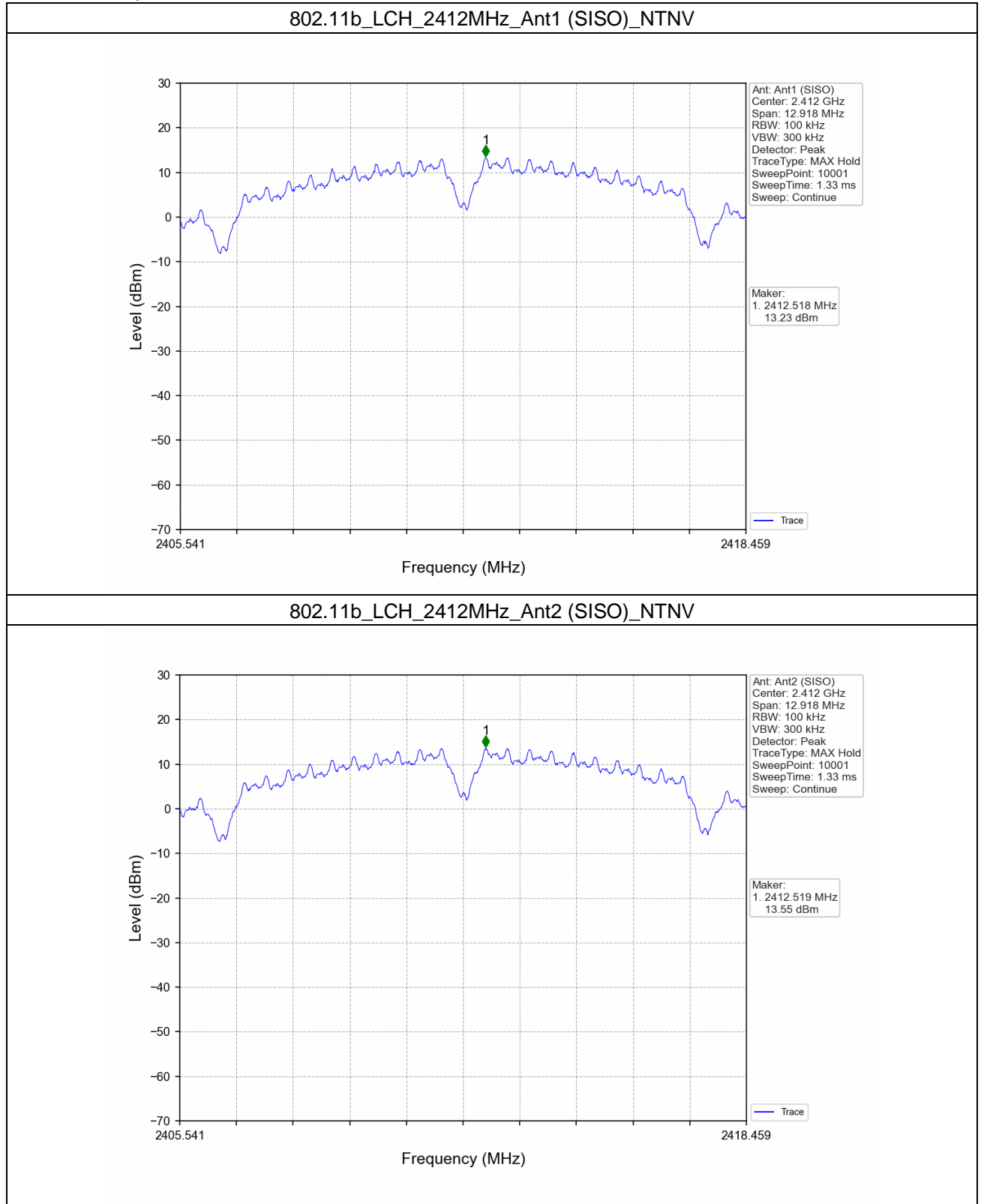
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: Only for Report Use



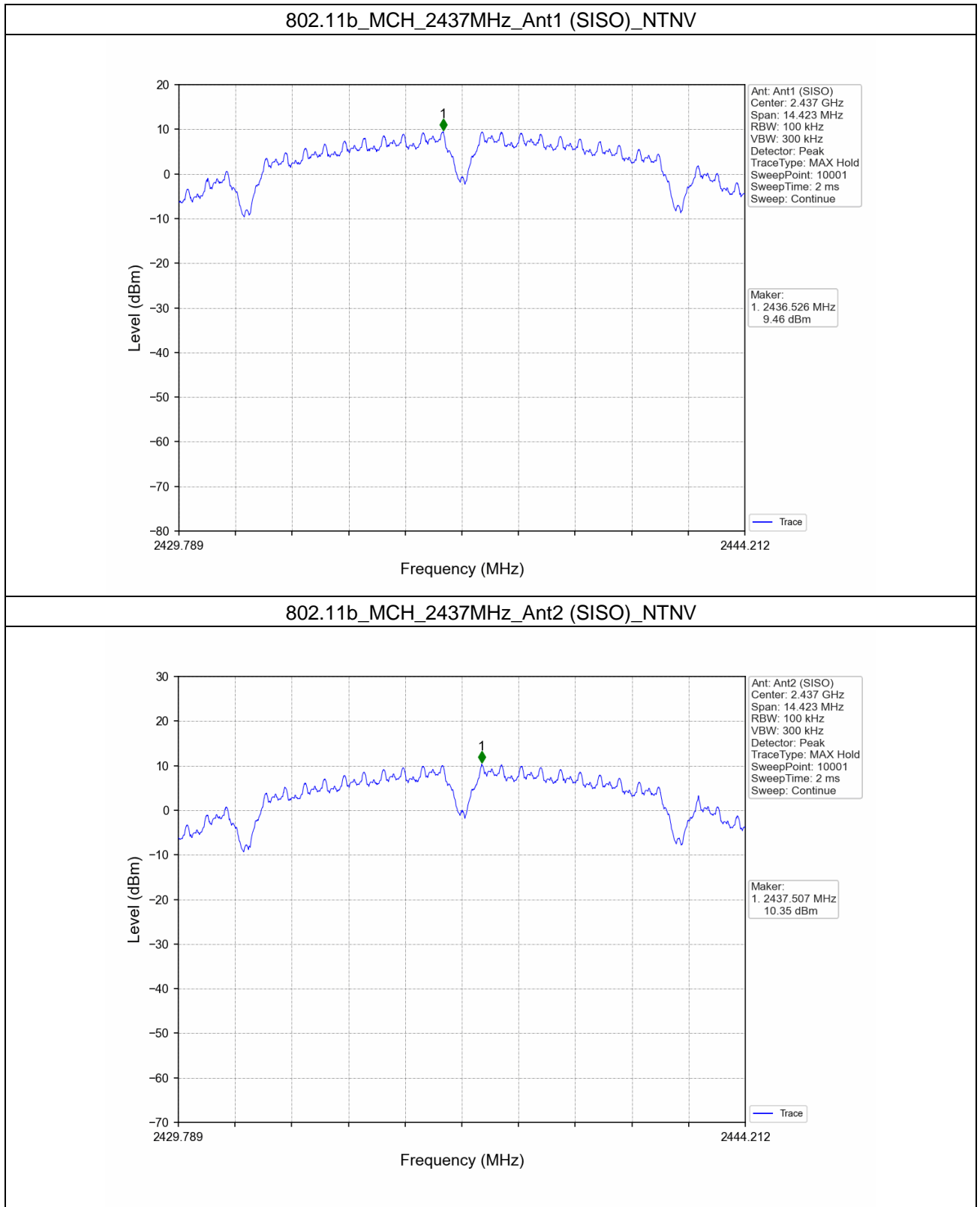
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### 5.1.2 Test Graph



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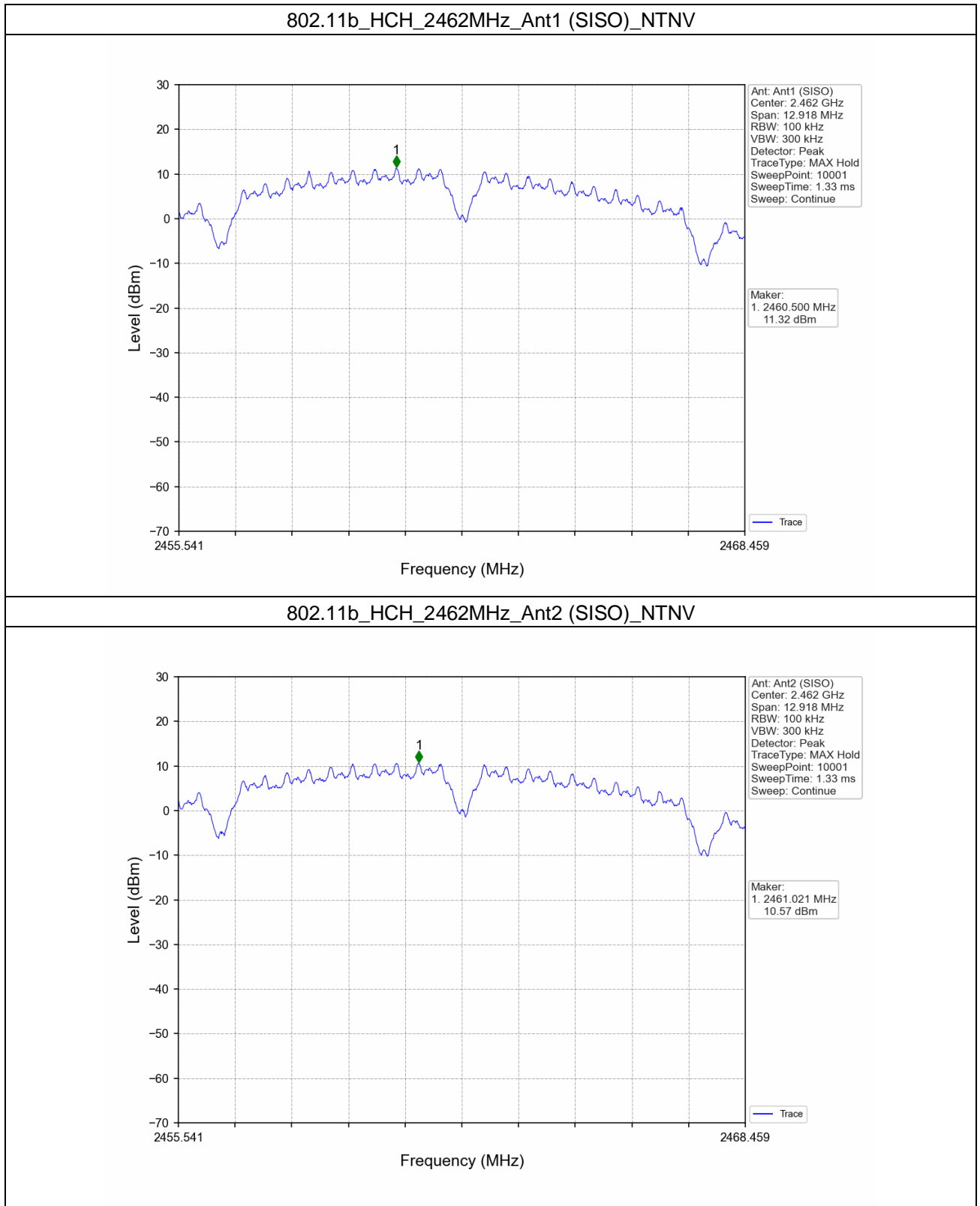
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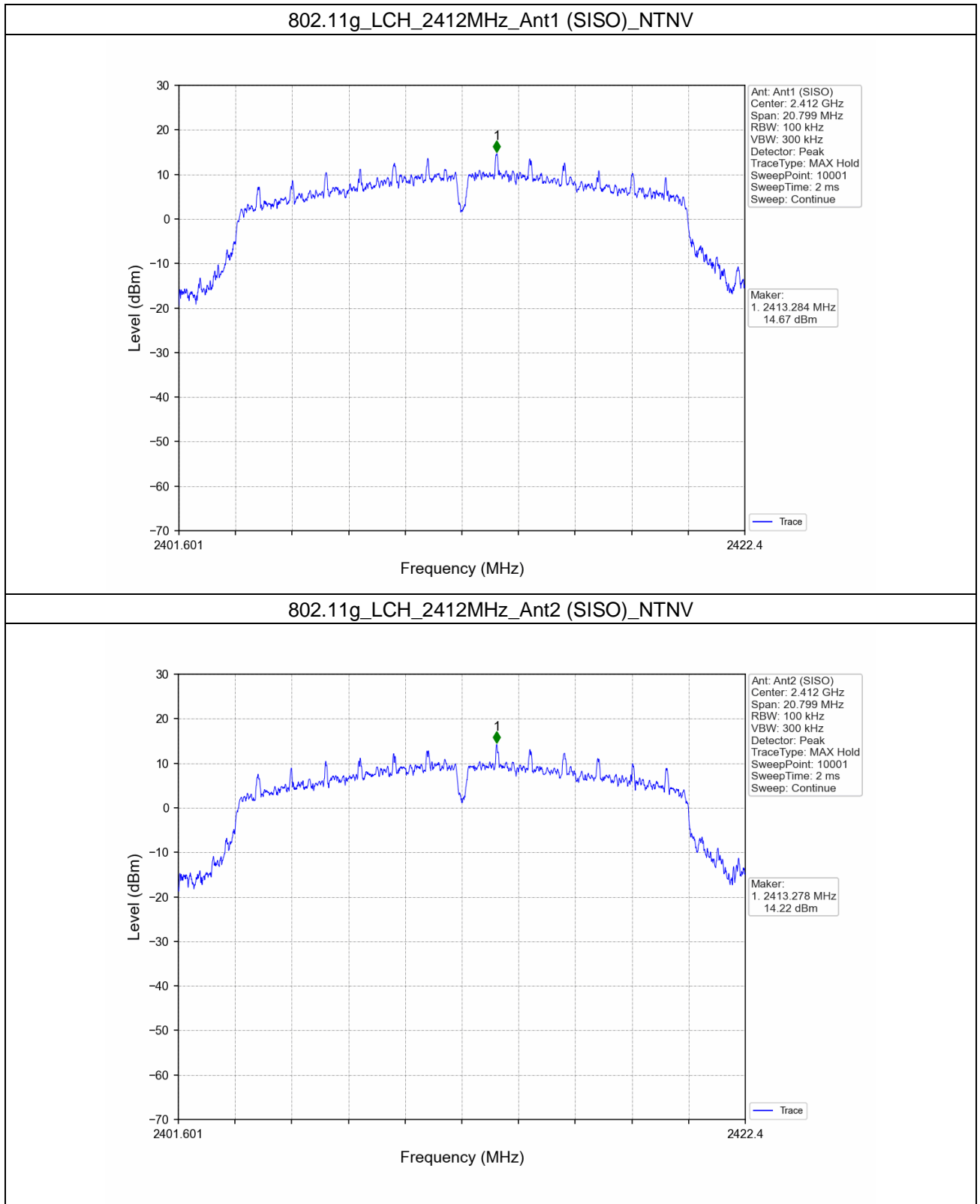
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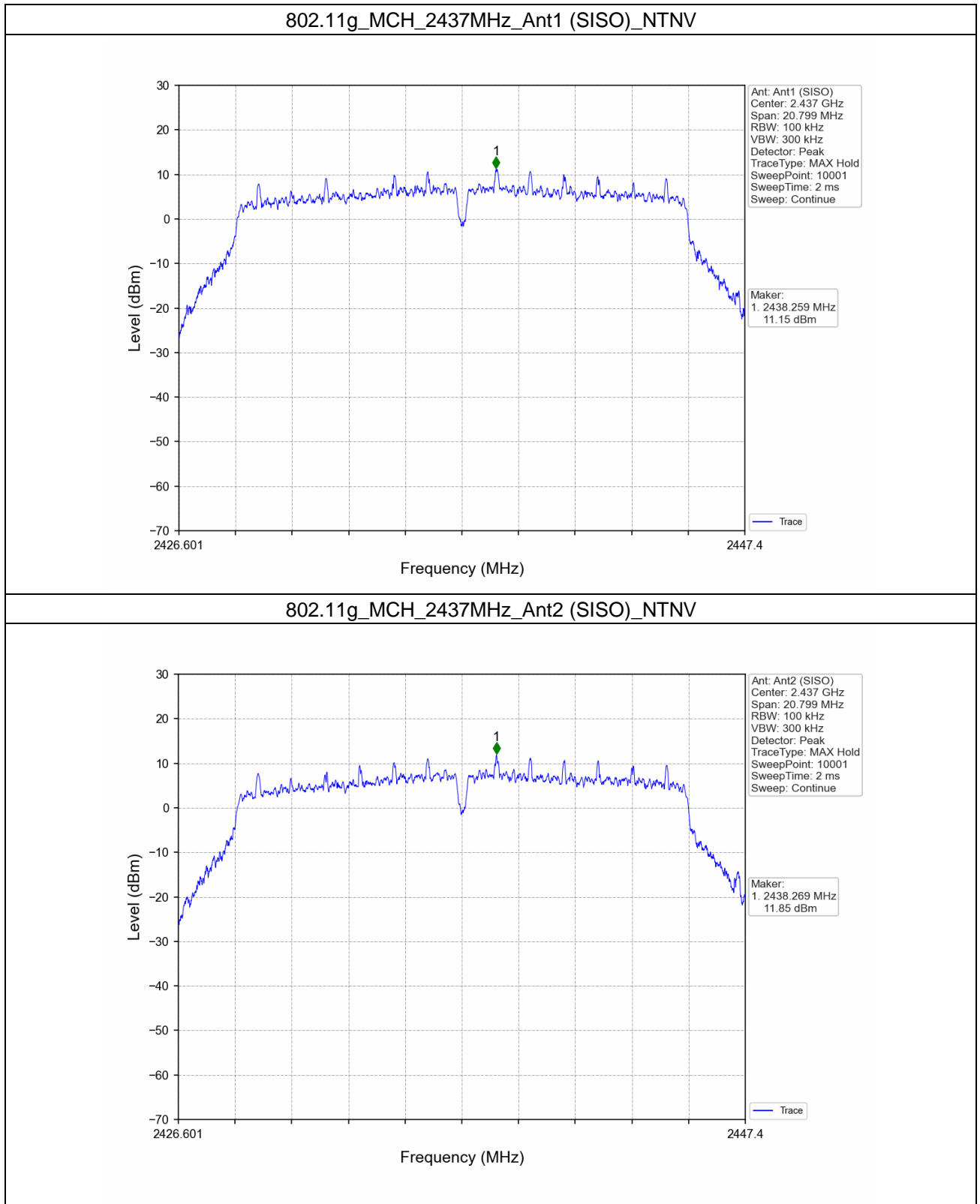
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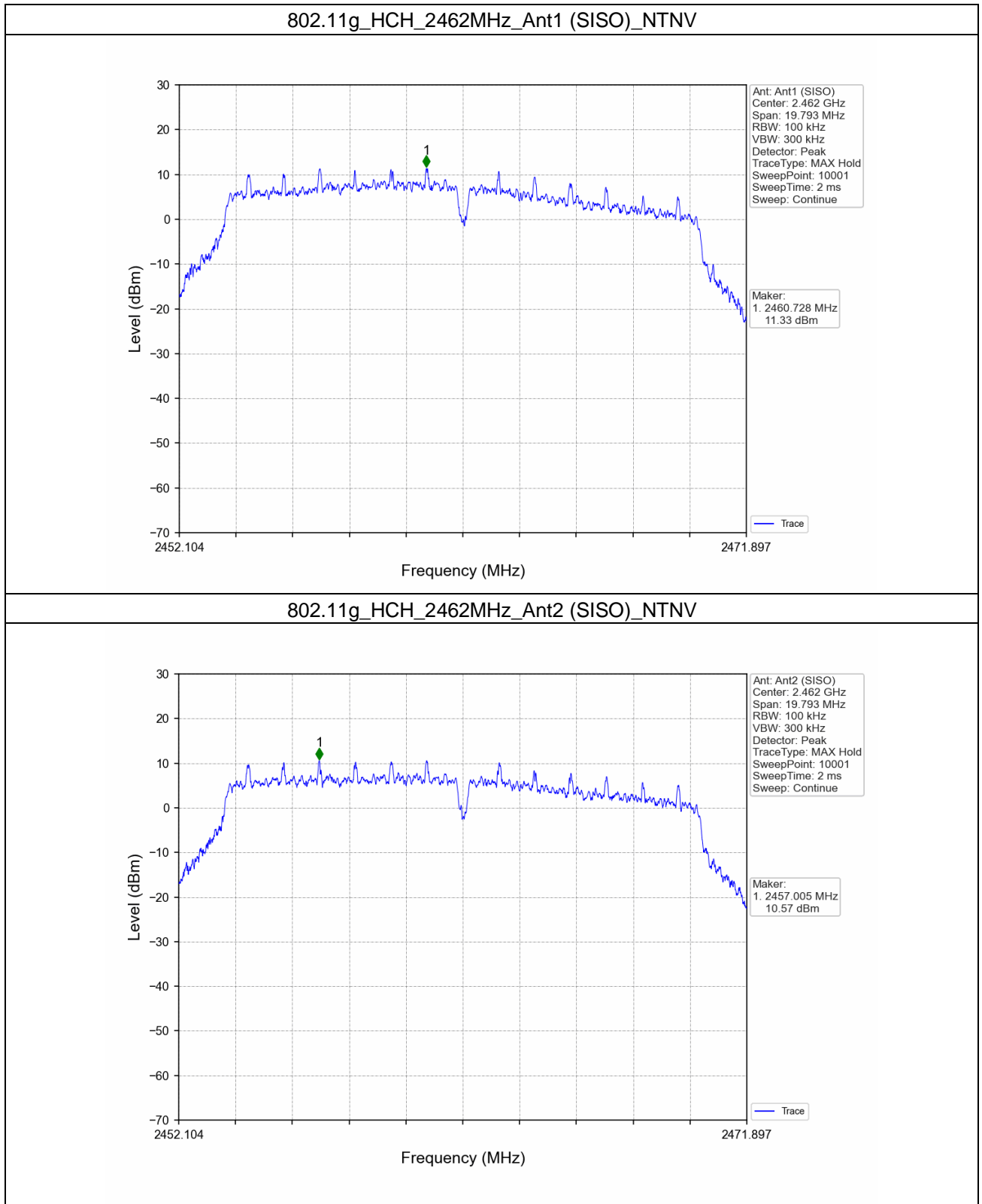
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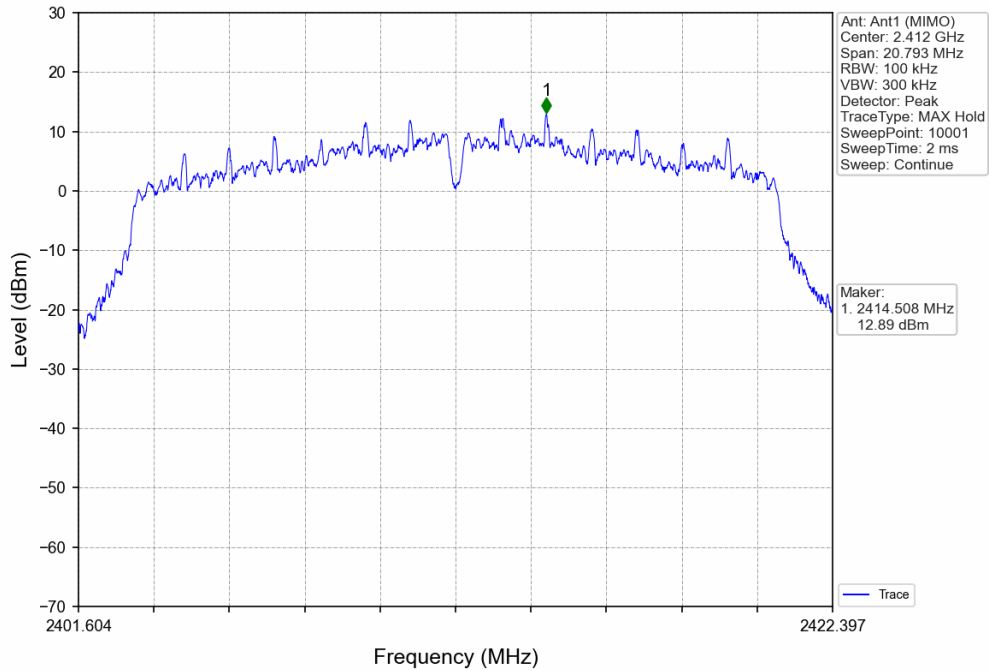


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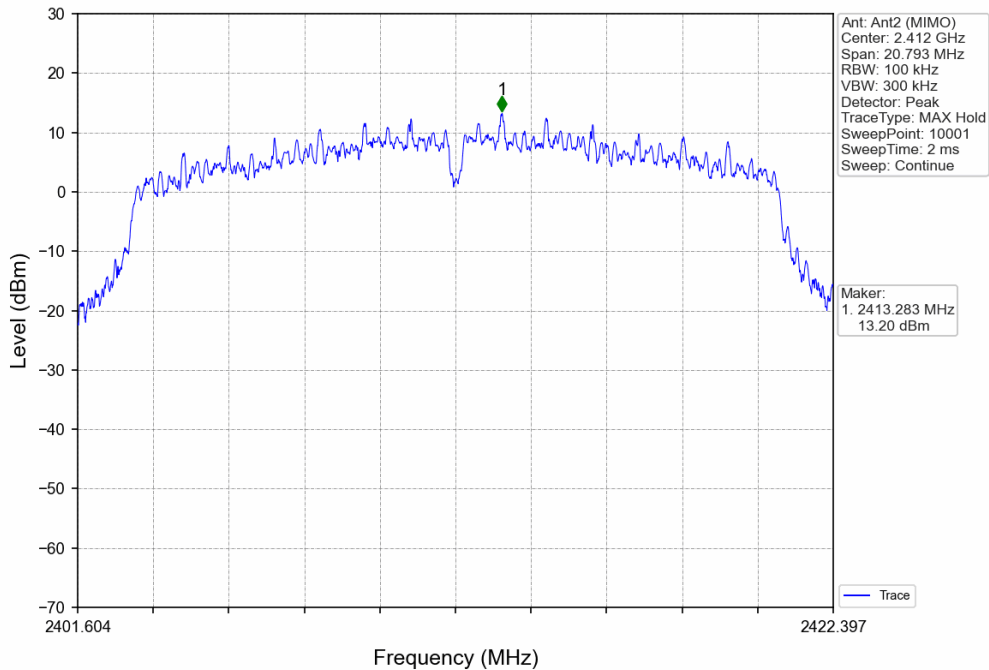
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



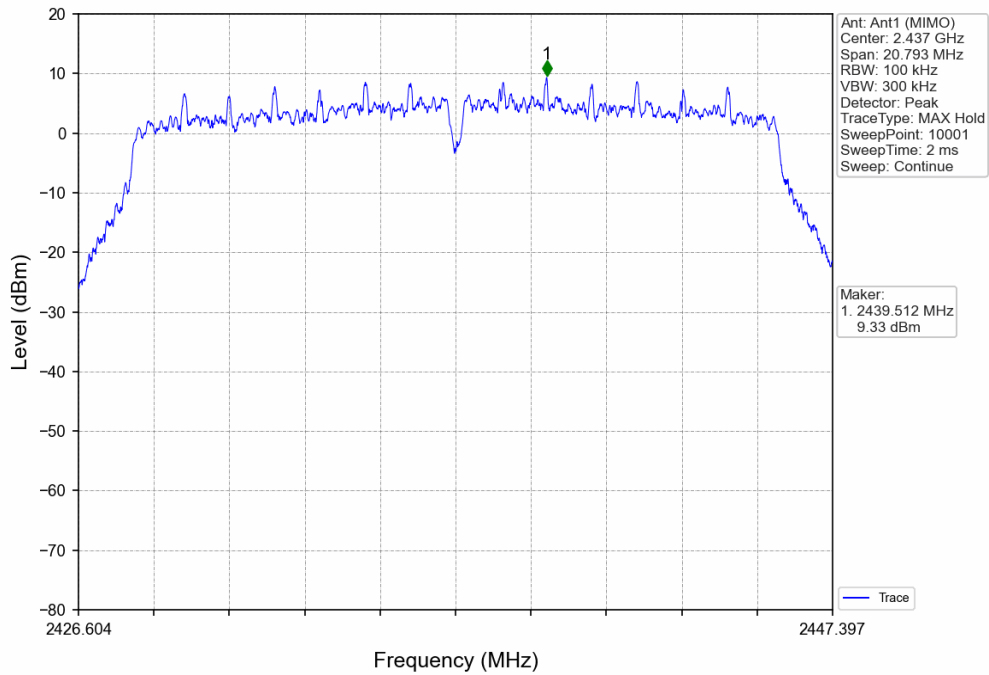
802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



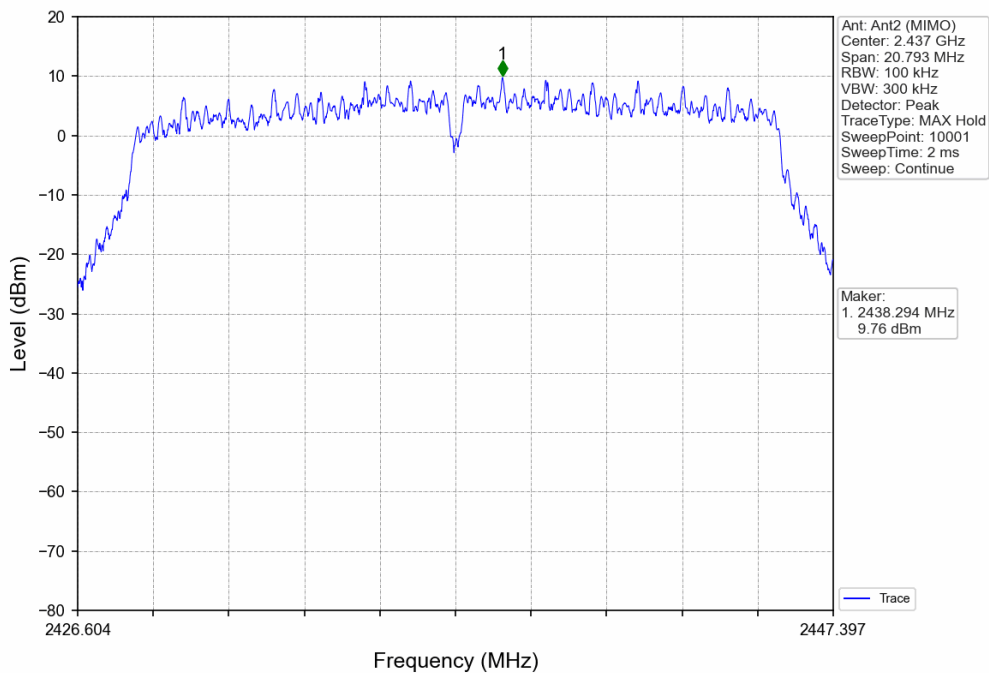
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



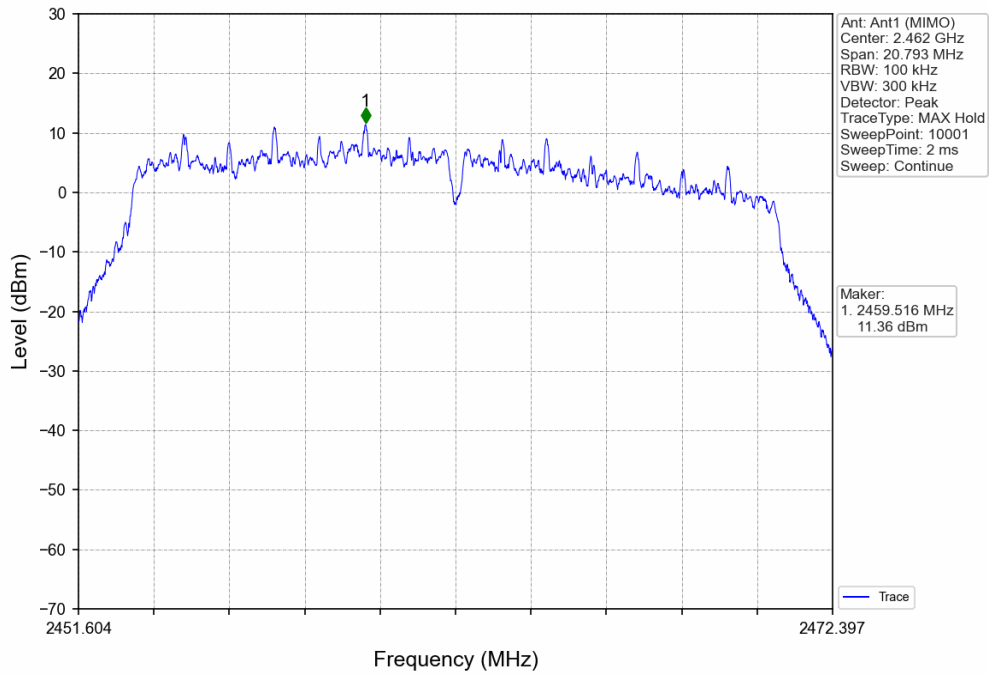
802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



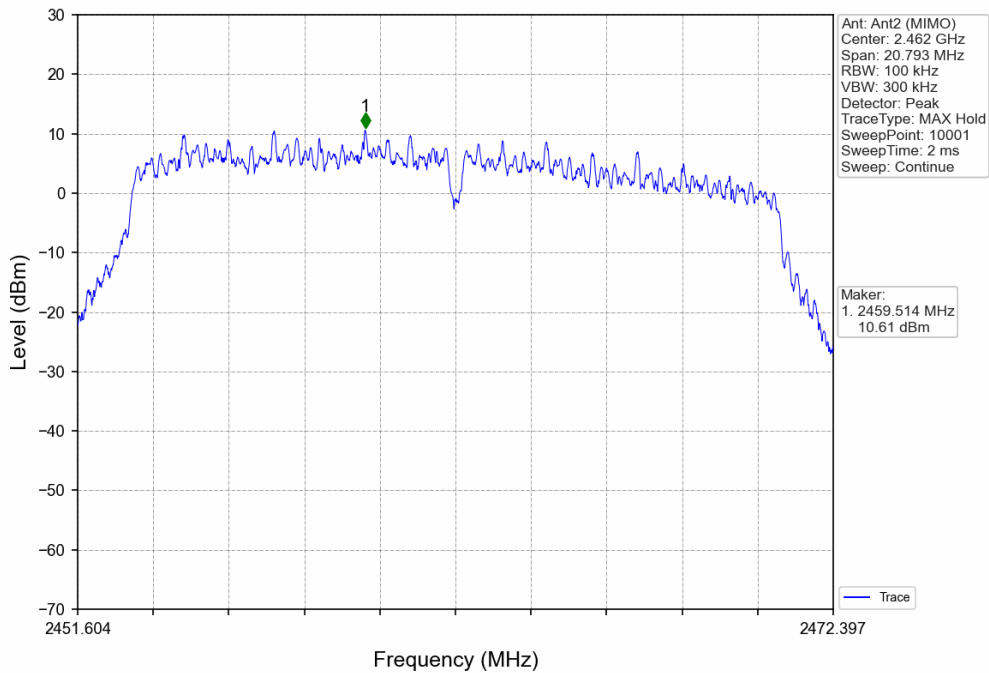
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



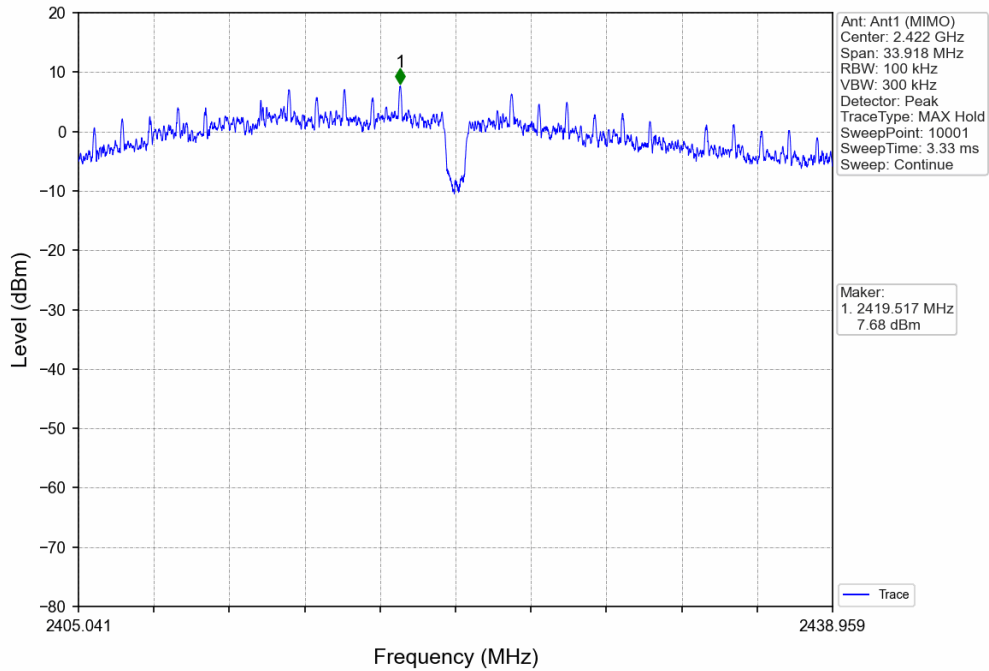
802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



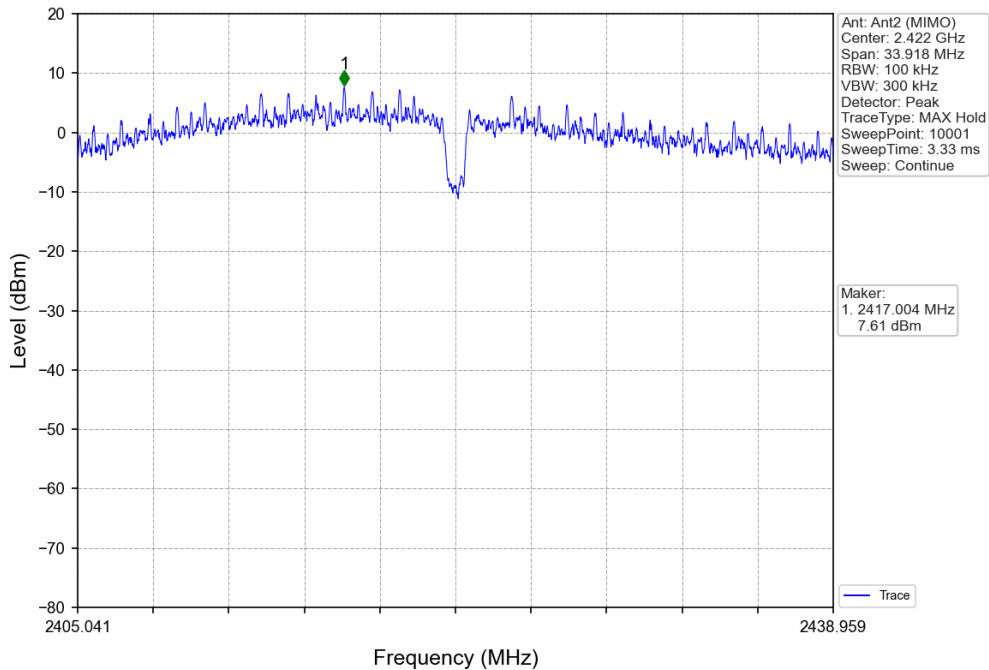
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV

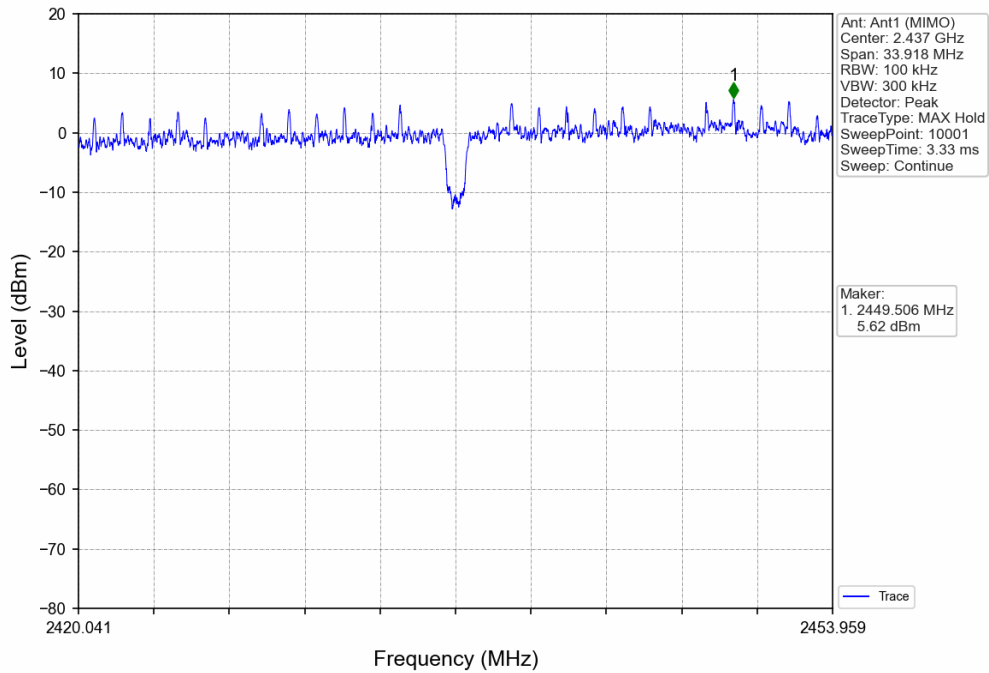


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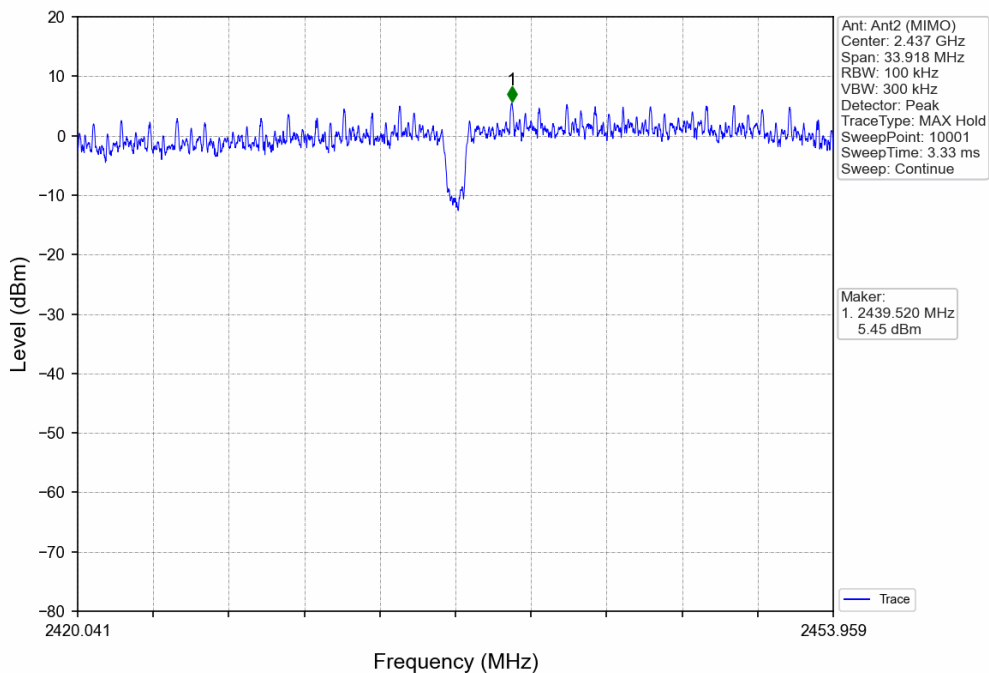
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



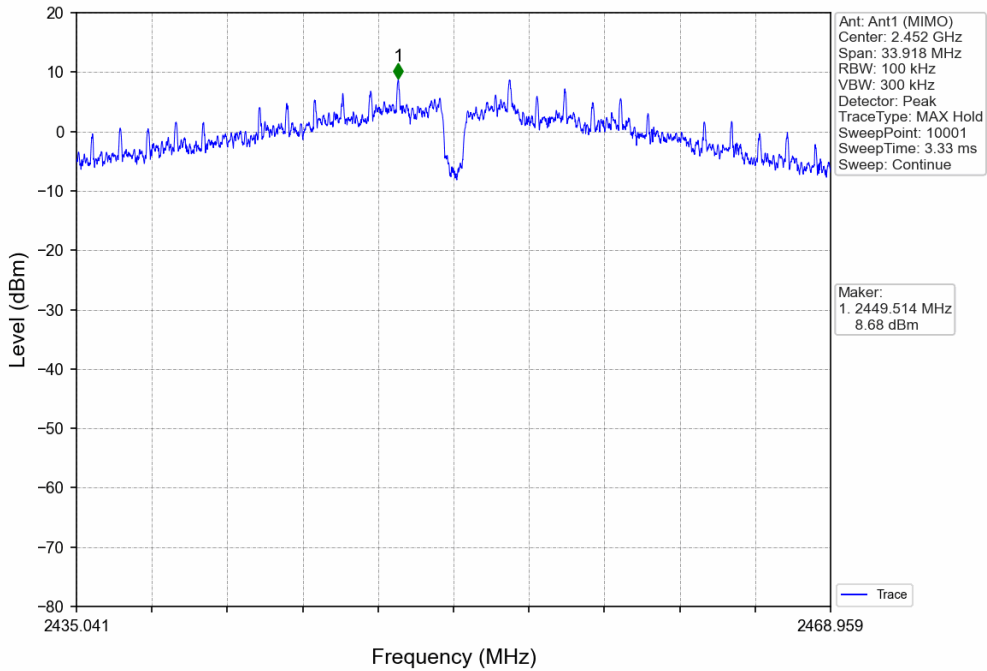
802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



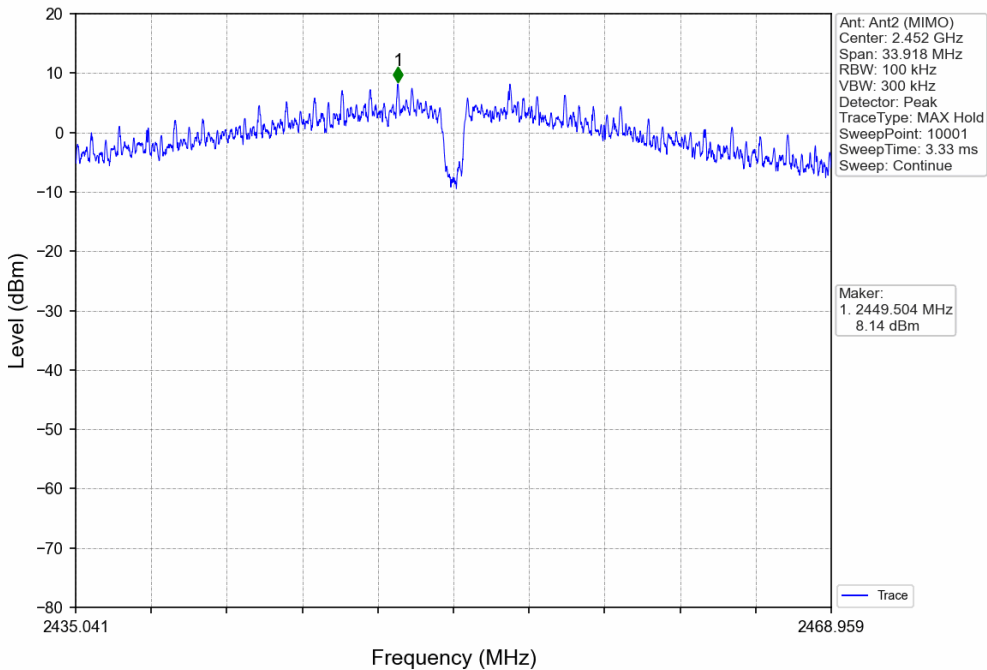
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



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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
					2	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
					2	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
					2	Refer To Test Graph	Refer To Test Graph	Note2
802.11g	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
					2	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
					2	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
					2	Refer To Test Graph	Refer To Test Graph	Note2
802.11n (HT20)	MIMO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
					2	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
					2	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
					2	Refer To Test Graph	Refer To Test Graph	Note2
802.11n (HT40)	MIMO	2422	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
					2	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
					2	Refer To Test Graph	Refer To Test Graph	Note2
		2452	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
					2	Refer To Test Graph	Refer To Test Graph	Note2

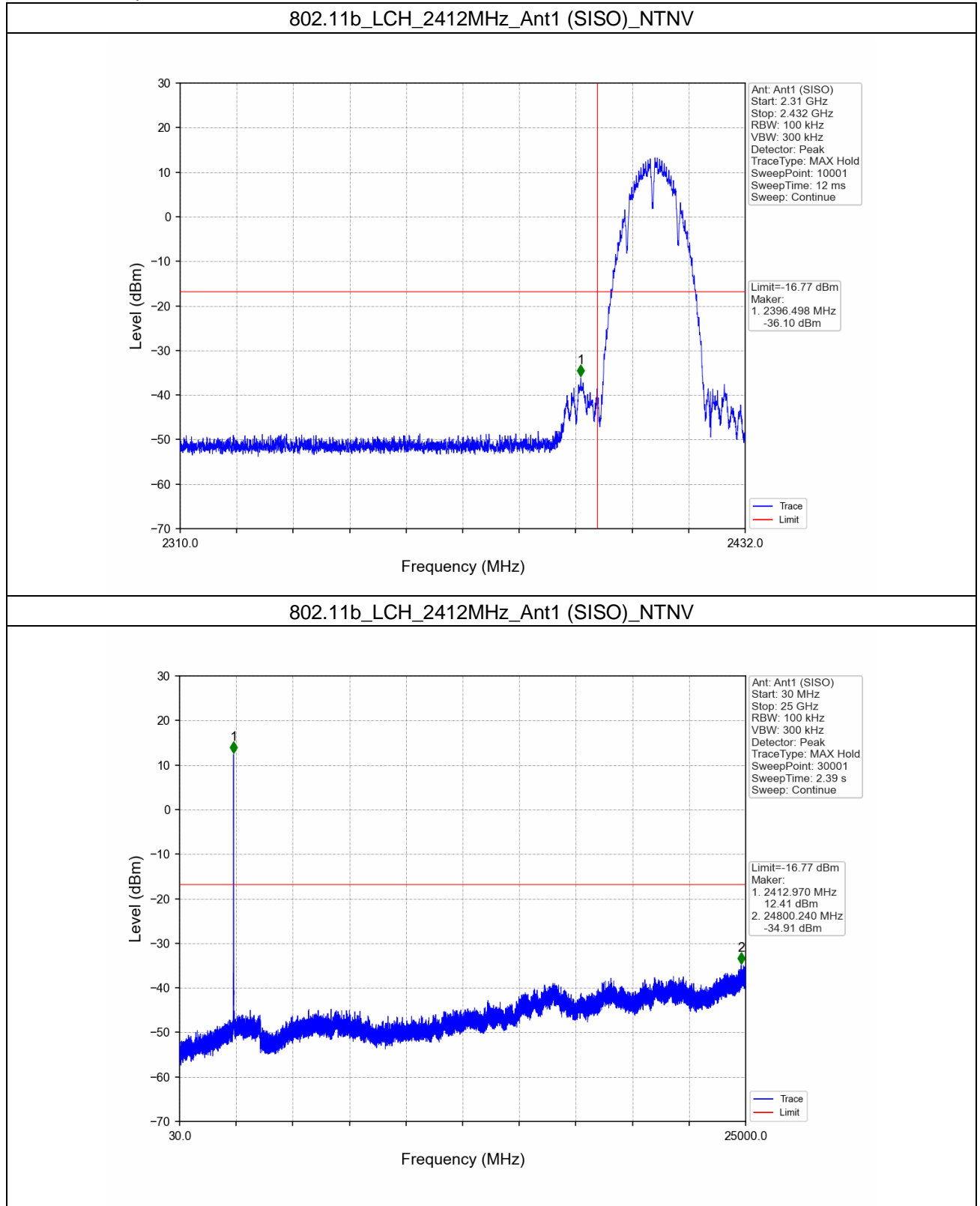
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: Only for Report Use



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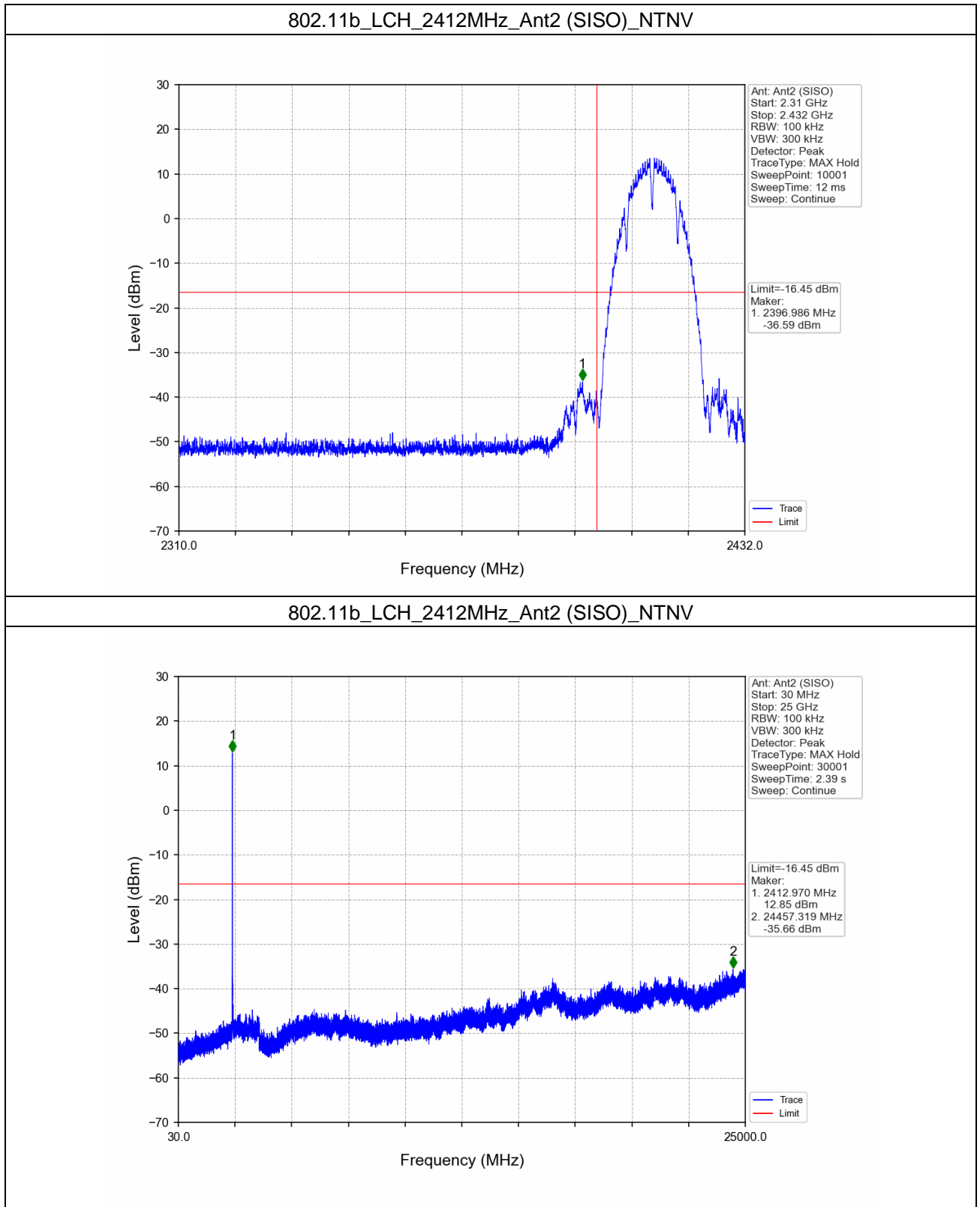
### 5.2.2 Test Graph



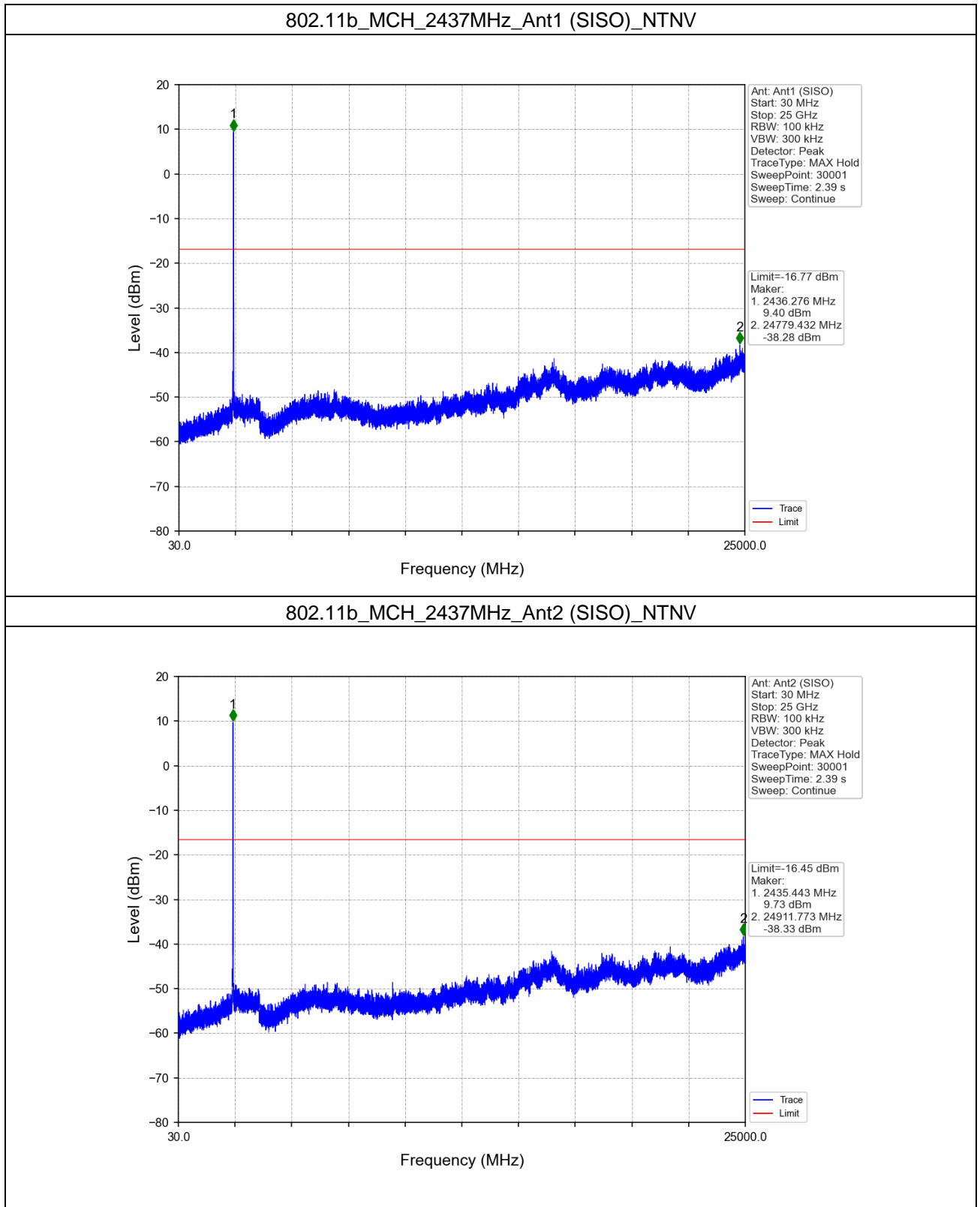
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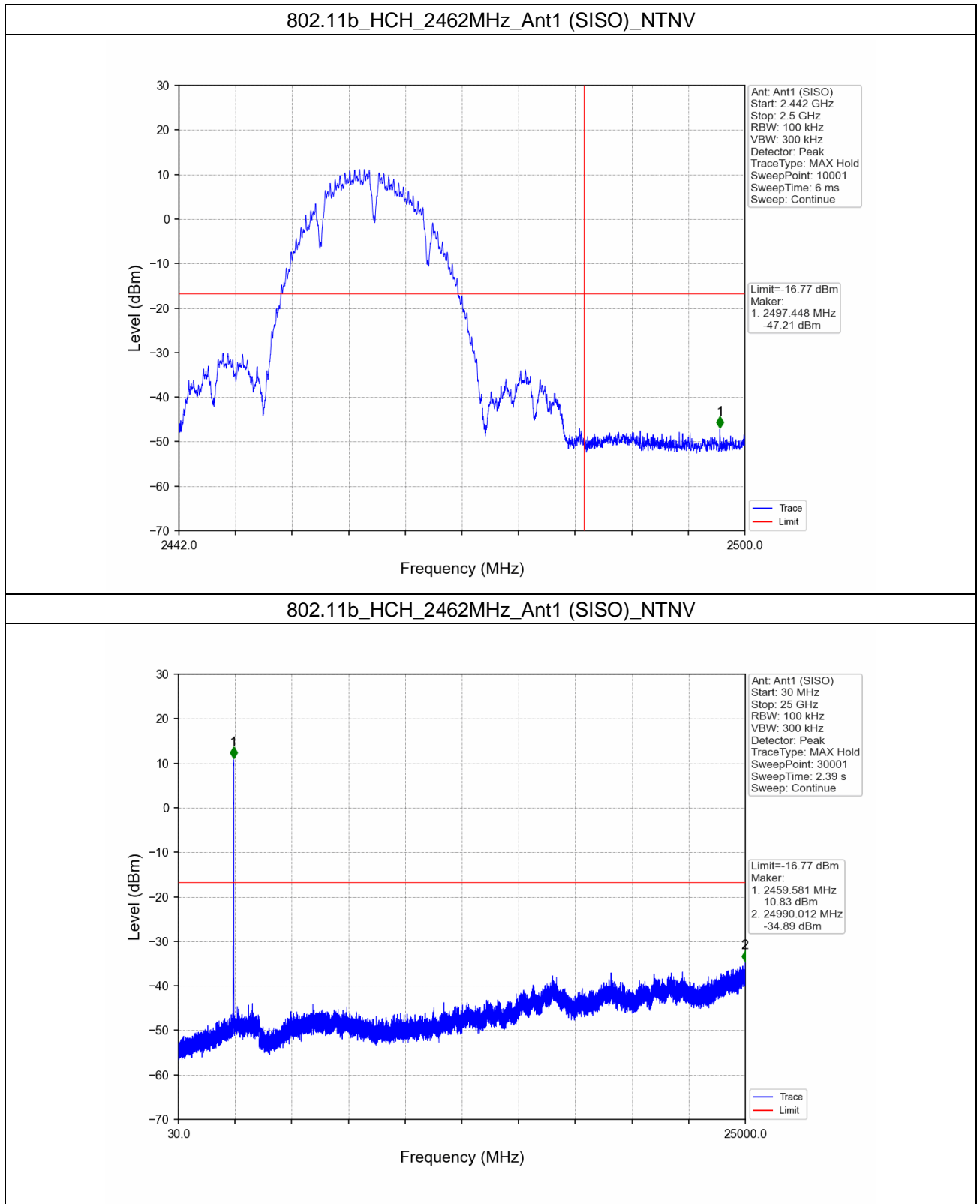




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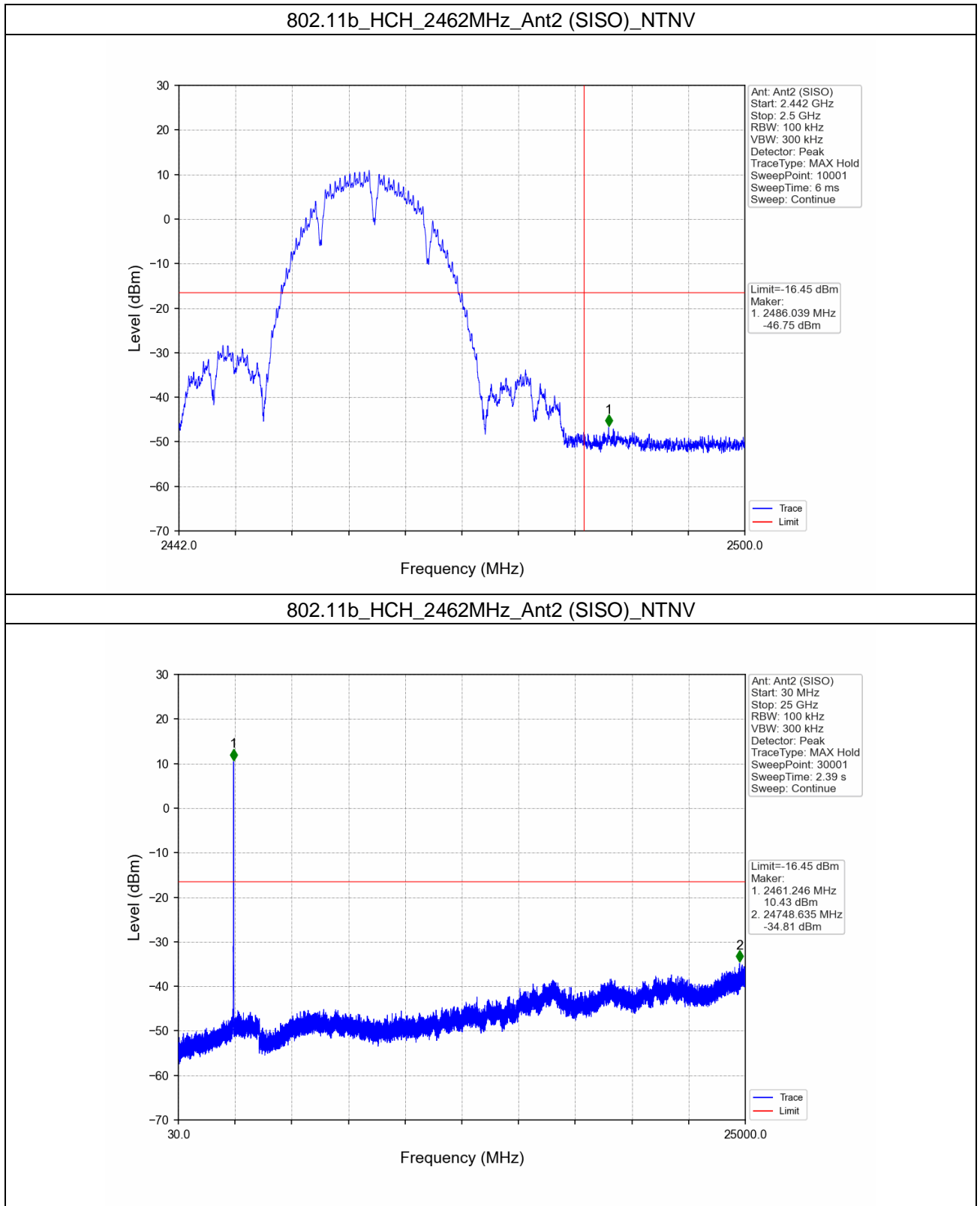


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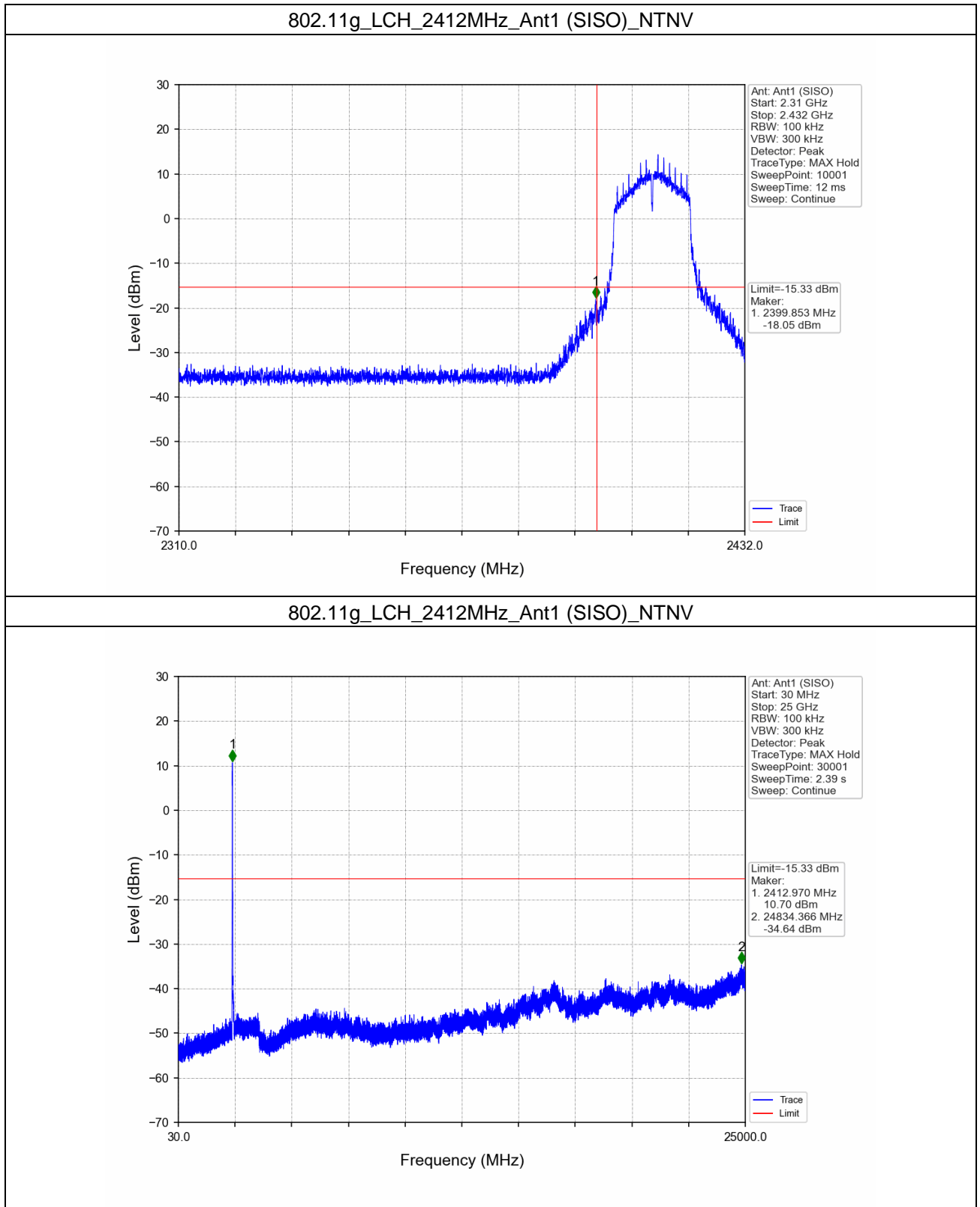
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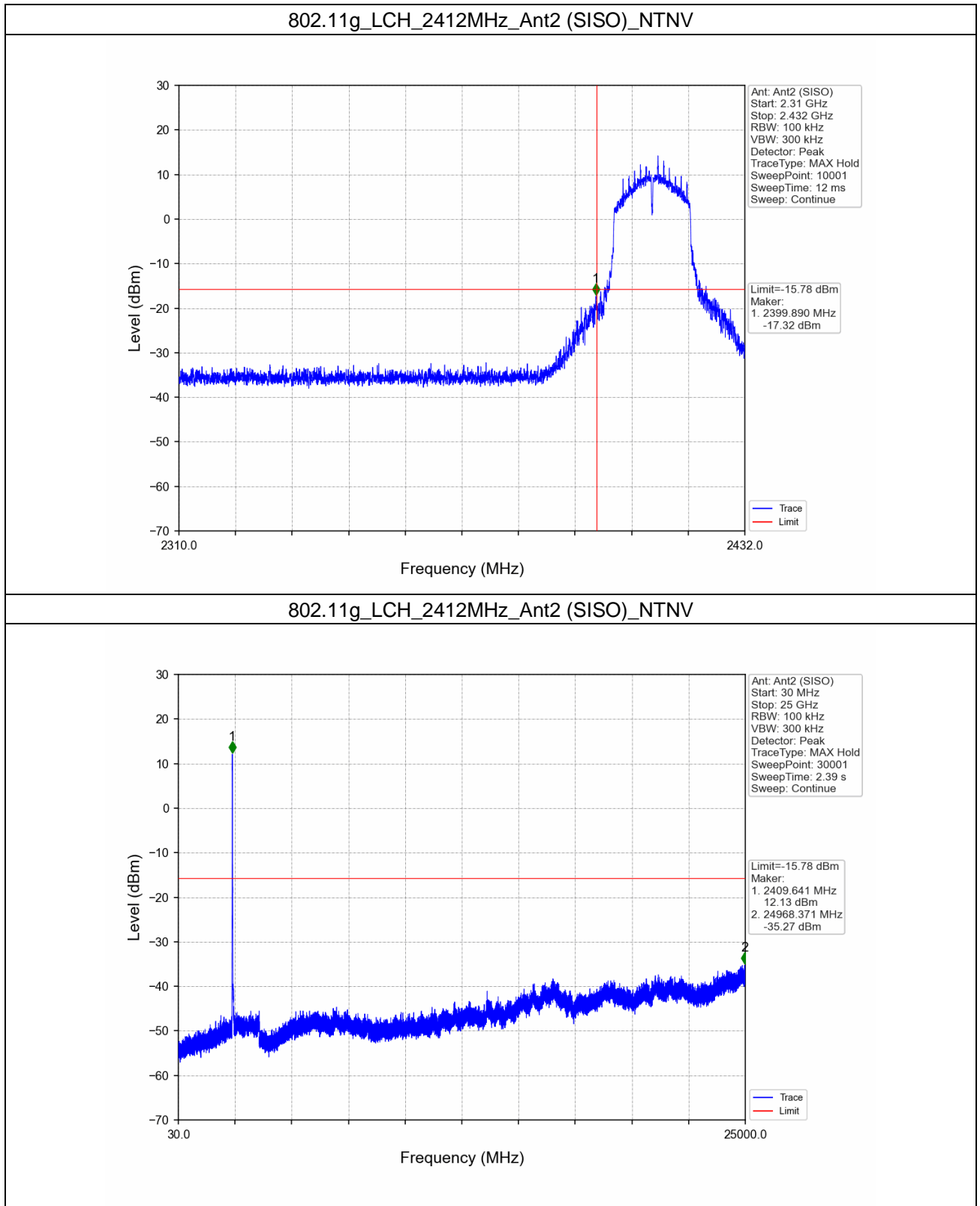
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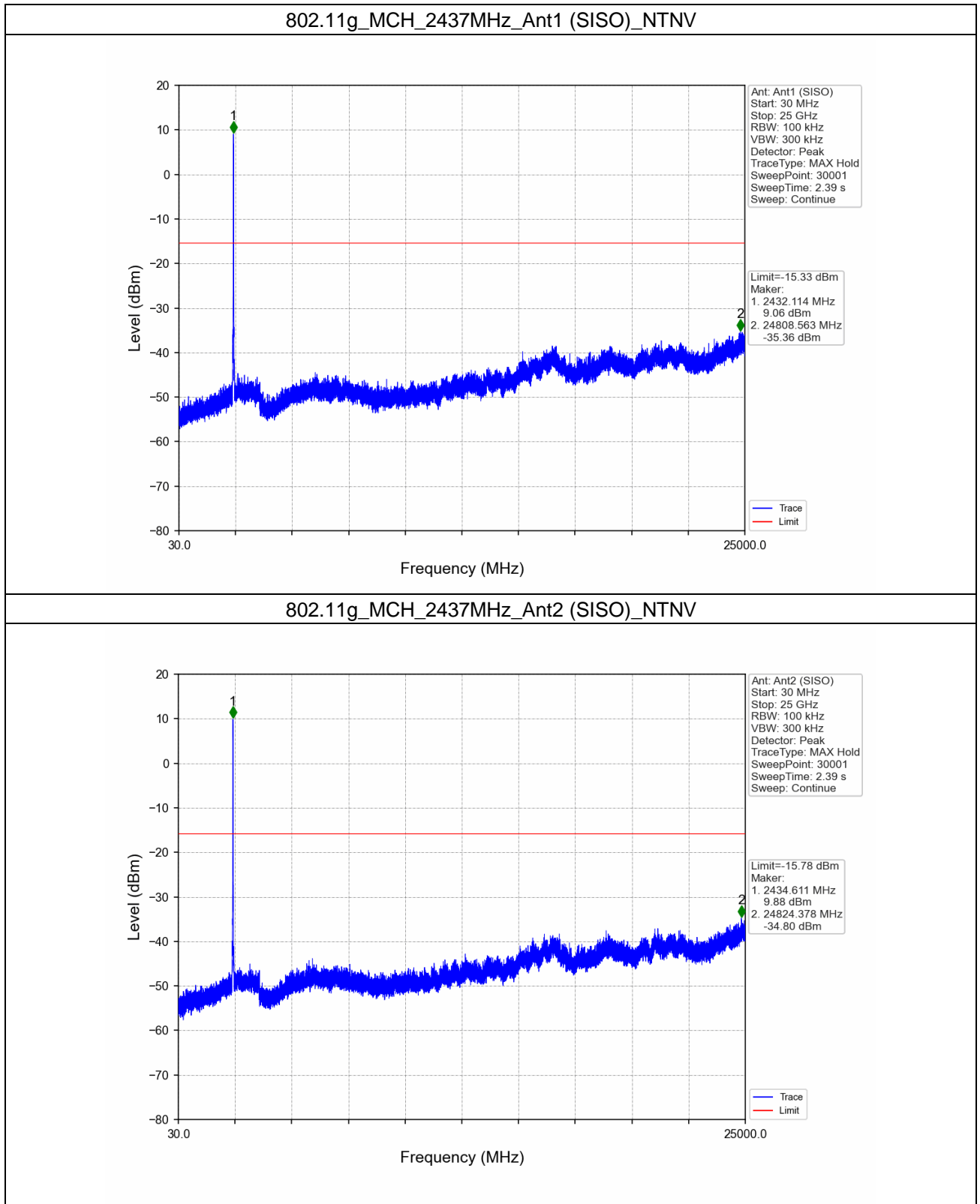


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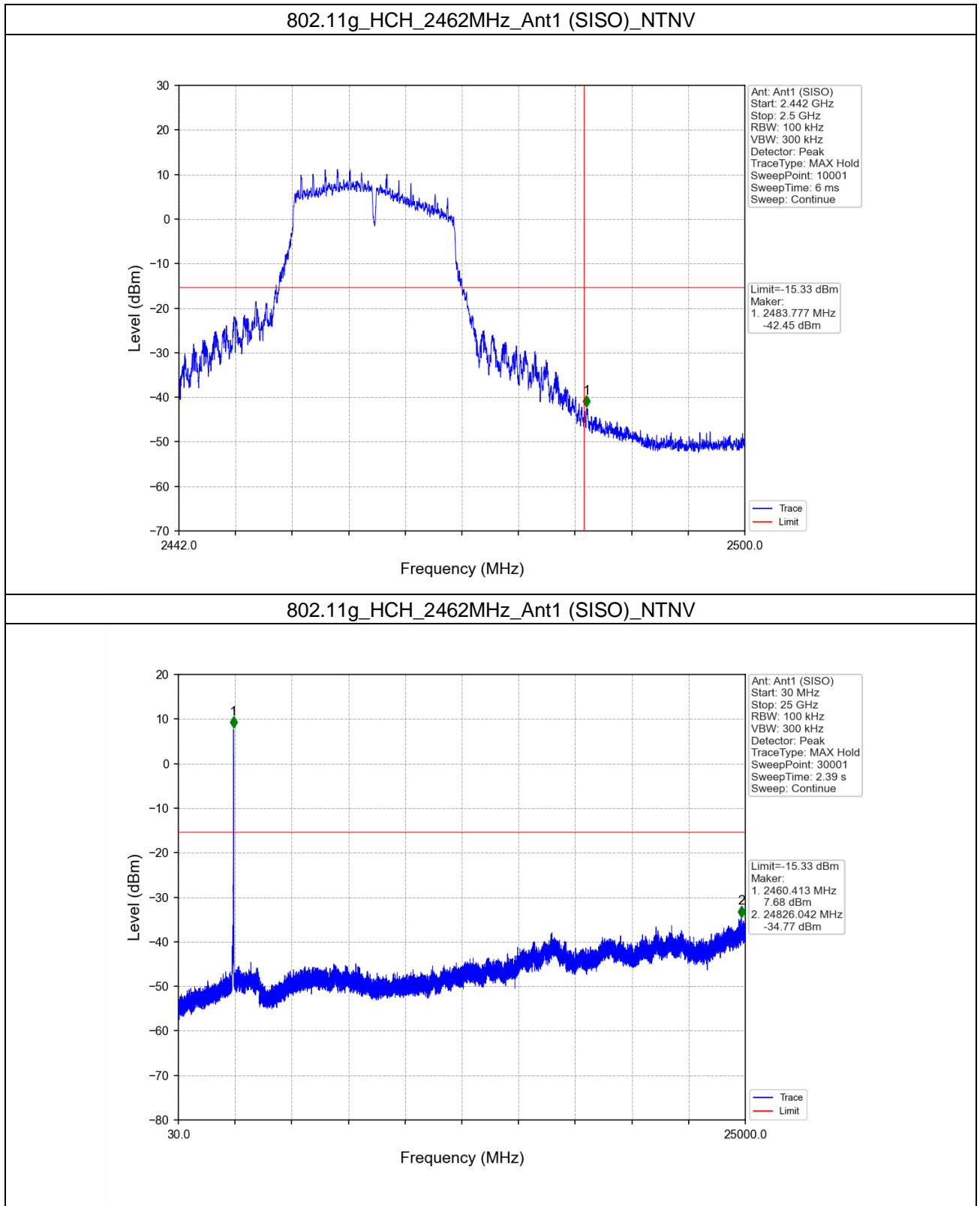
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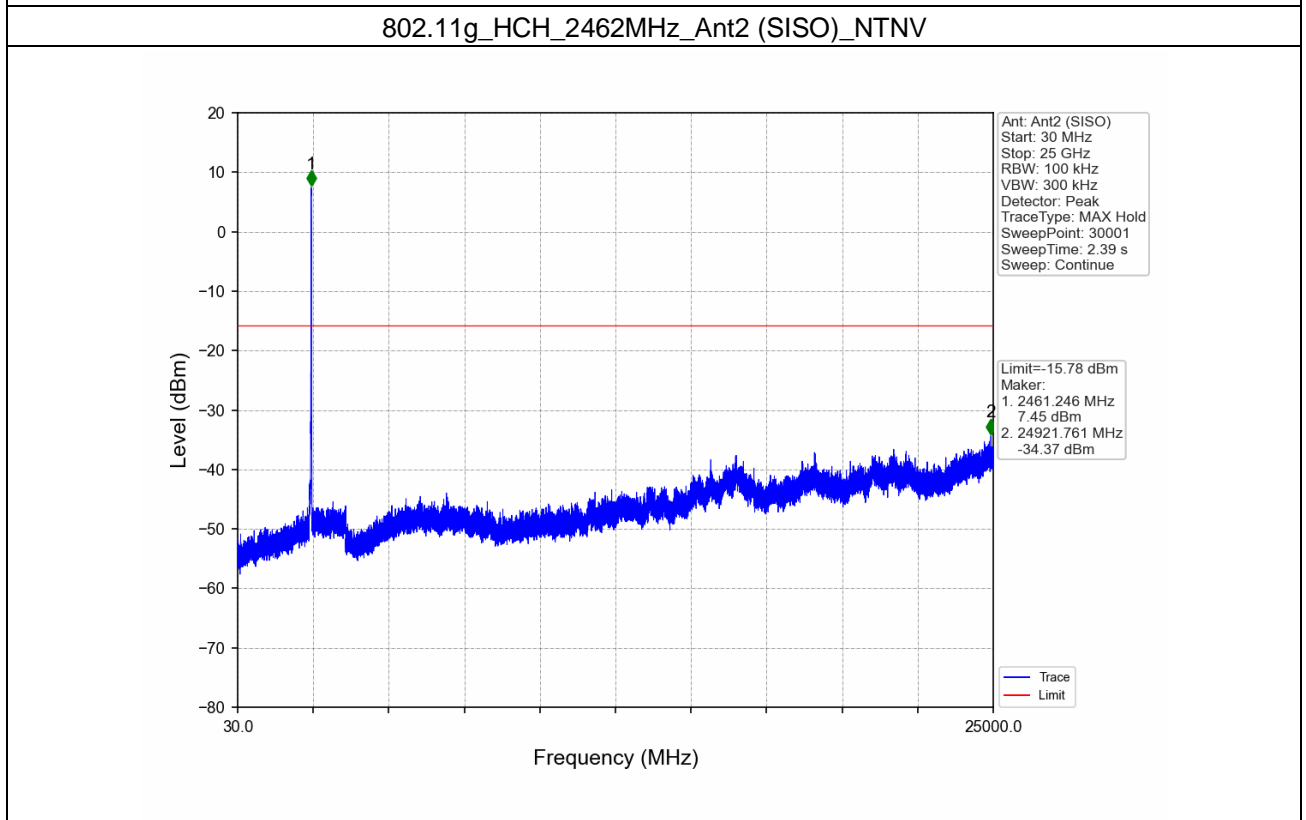
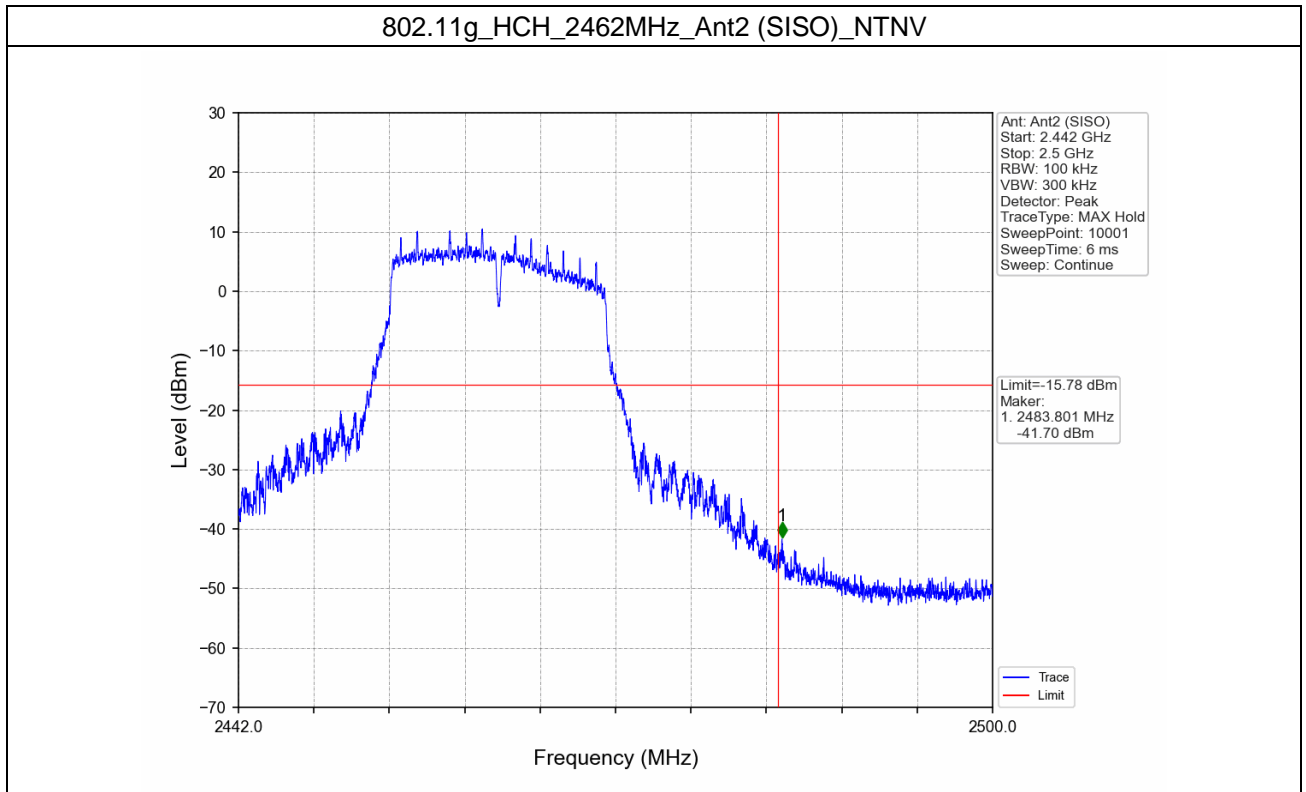
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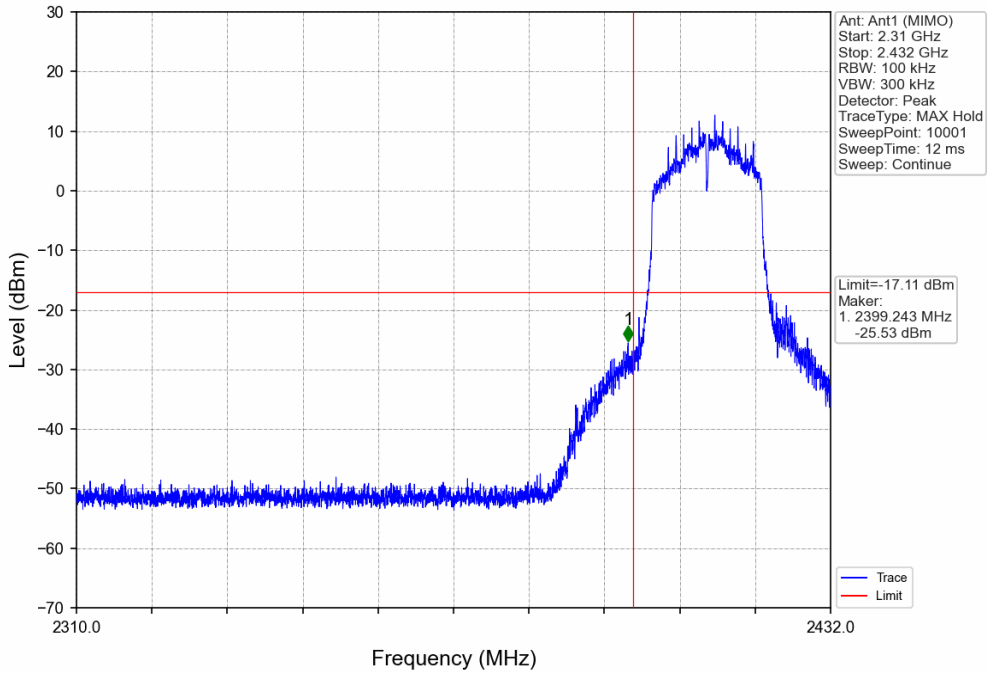




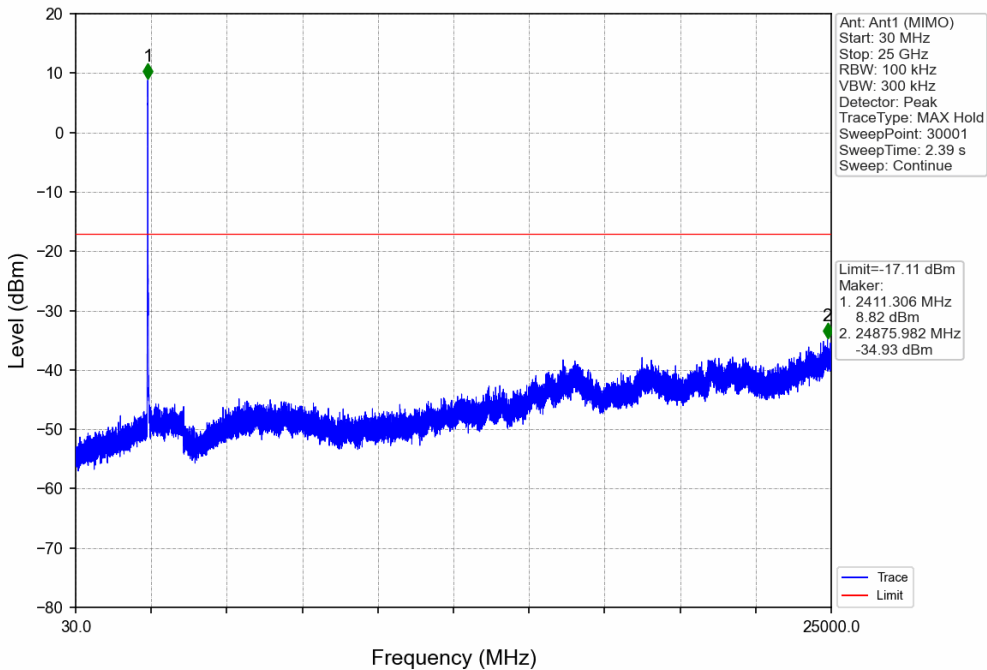
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV

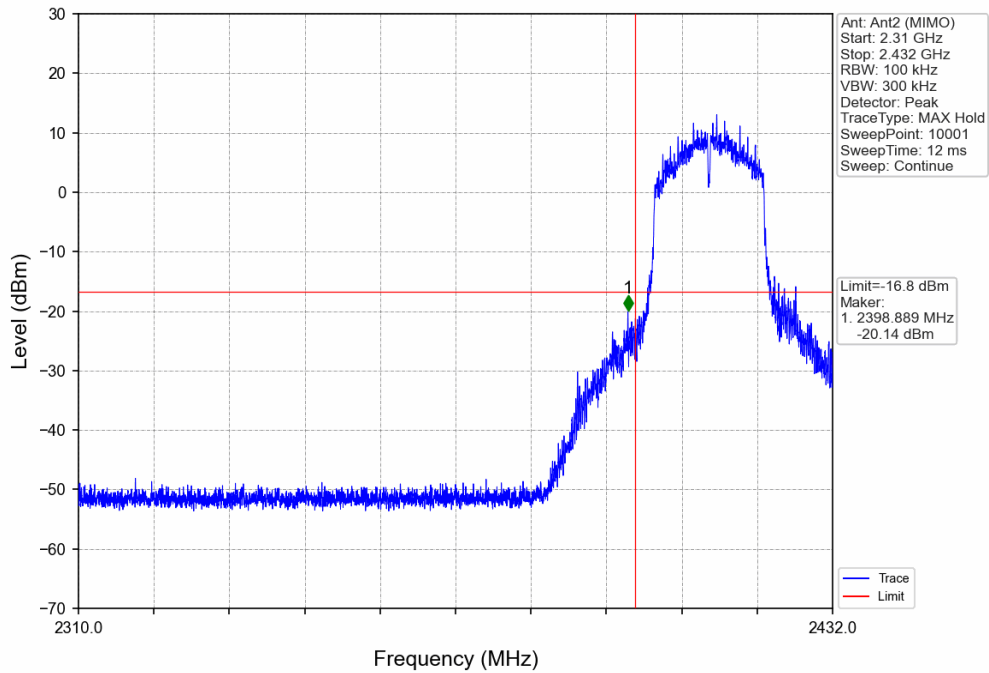


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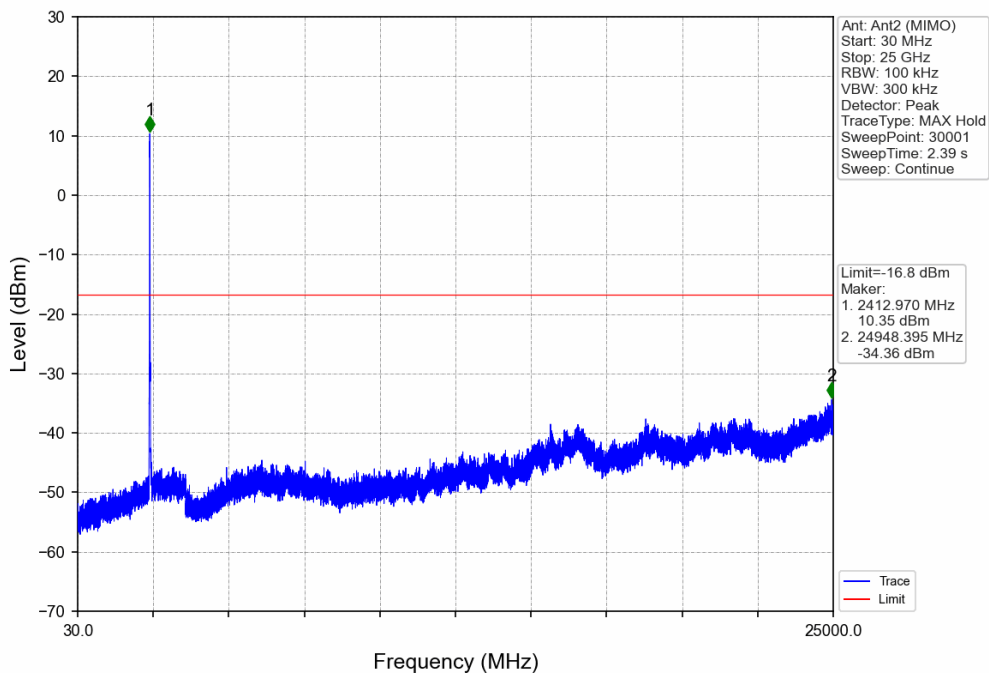


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802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



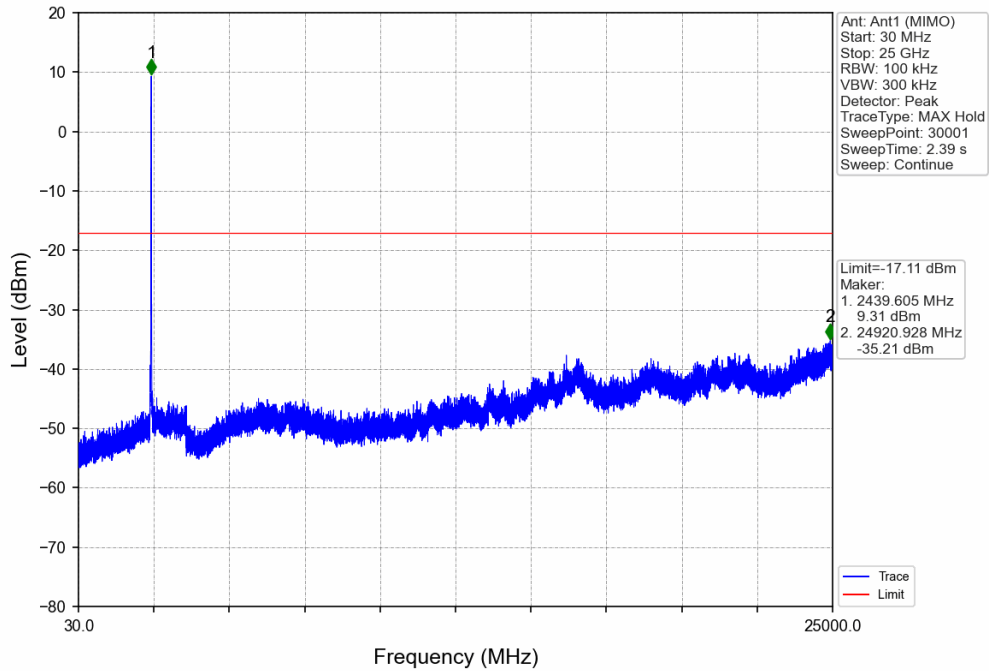
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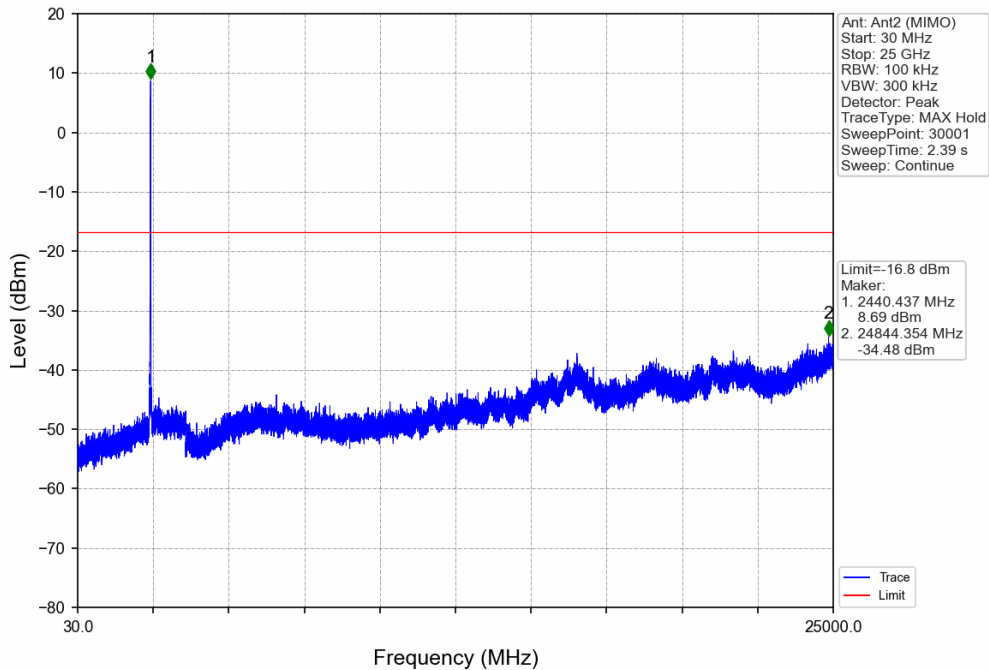
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

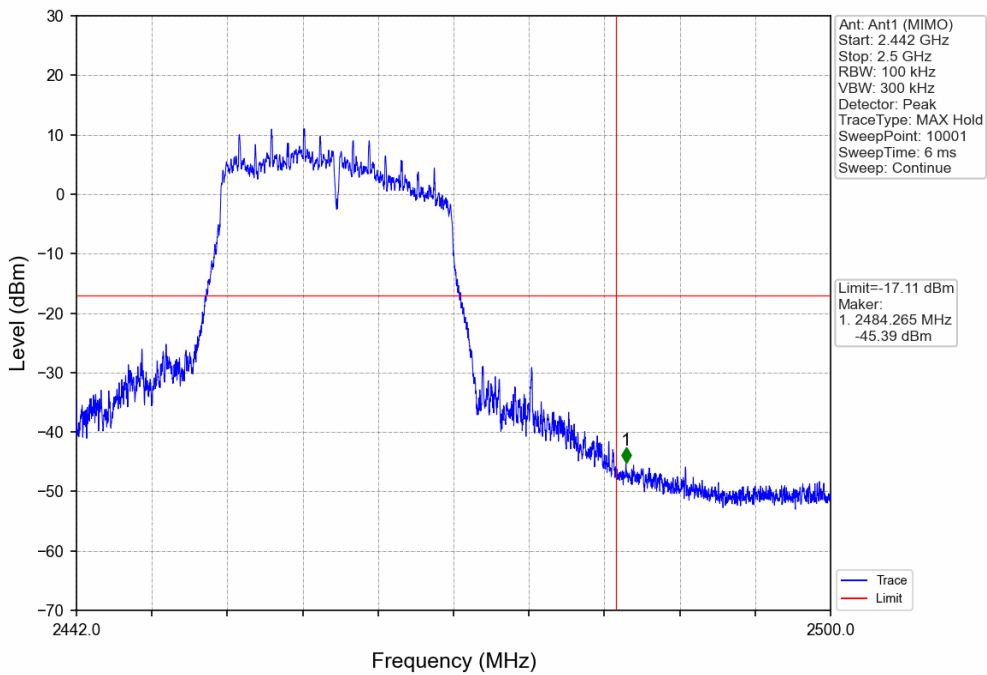


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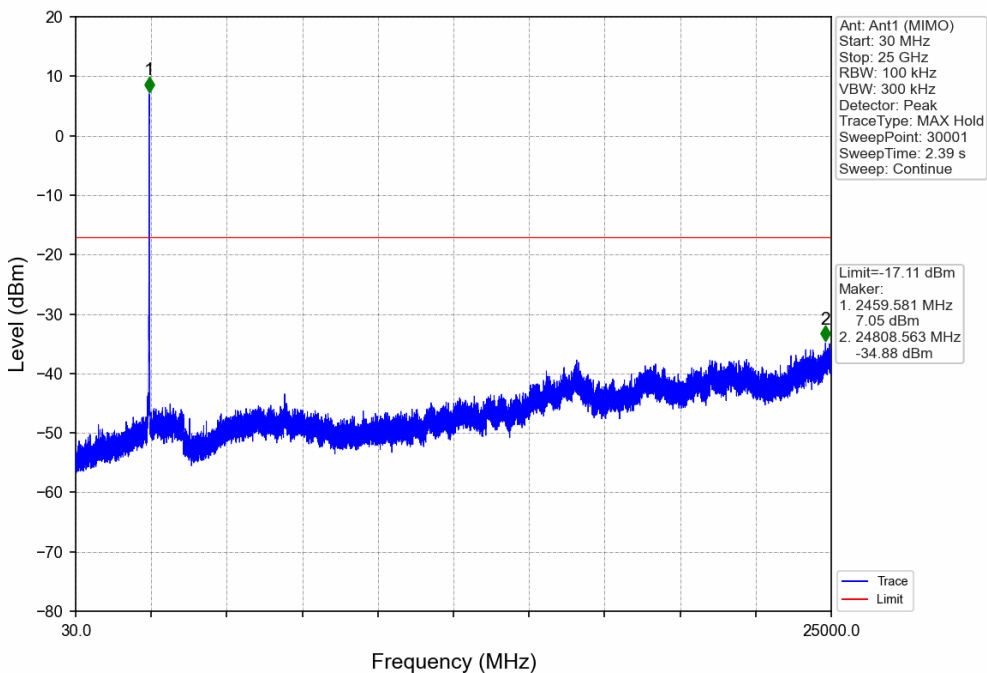
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV

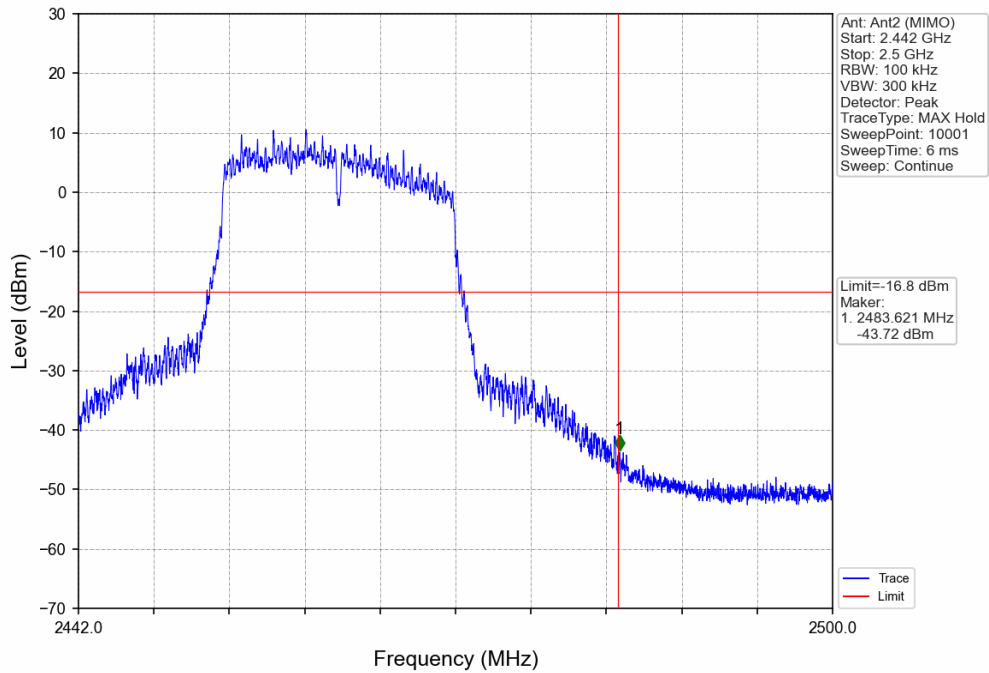


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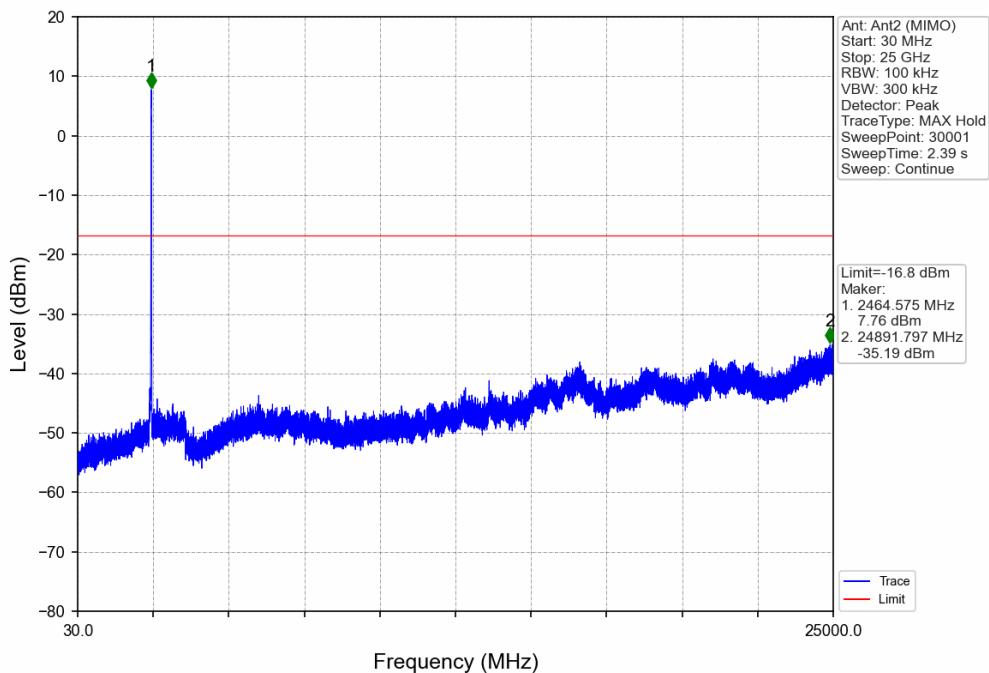


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802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV

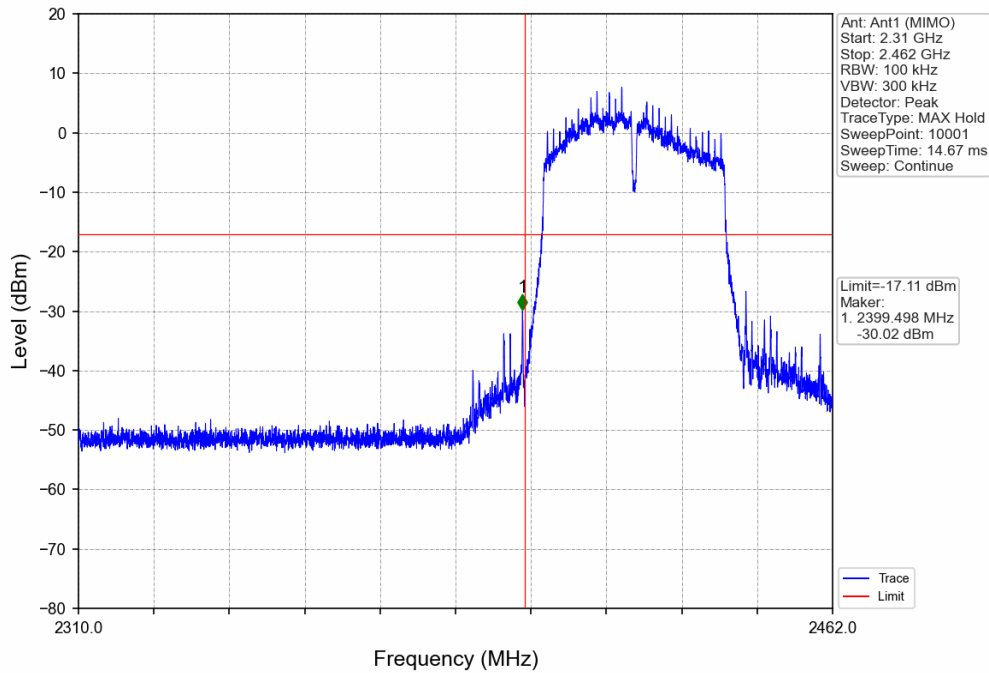


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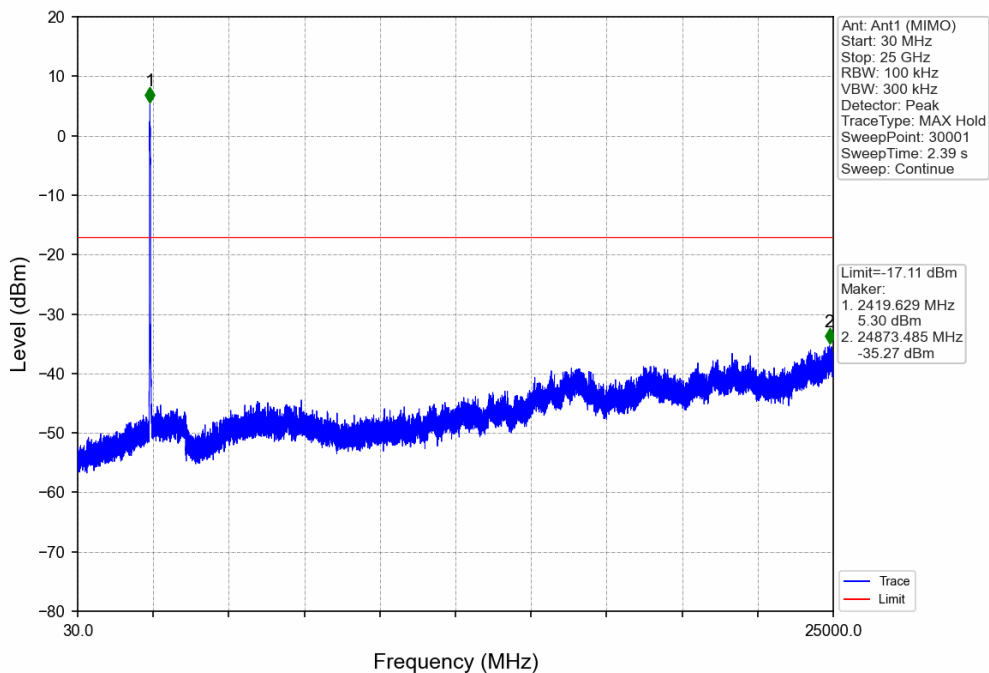


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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV

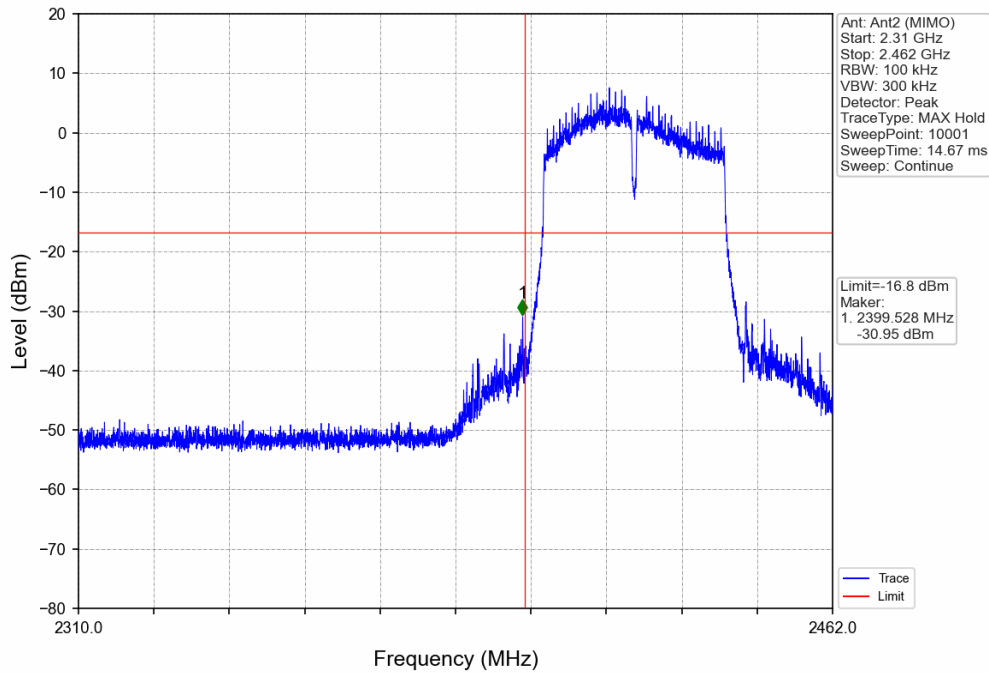


802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV

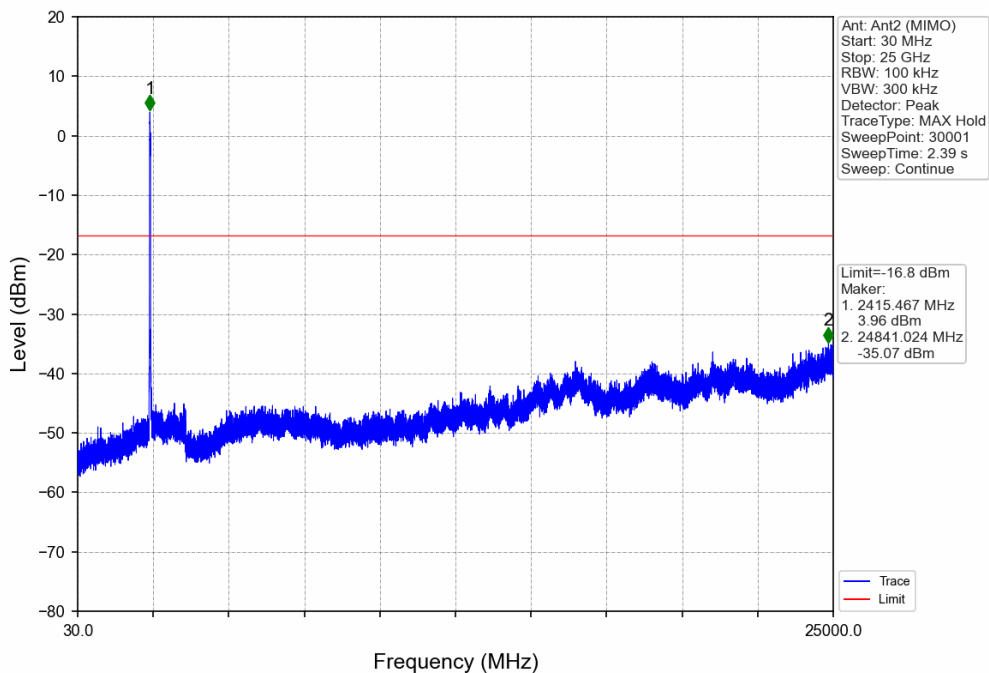


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802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



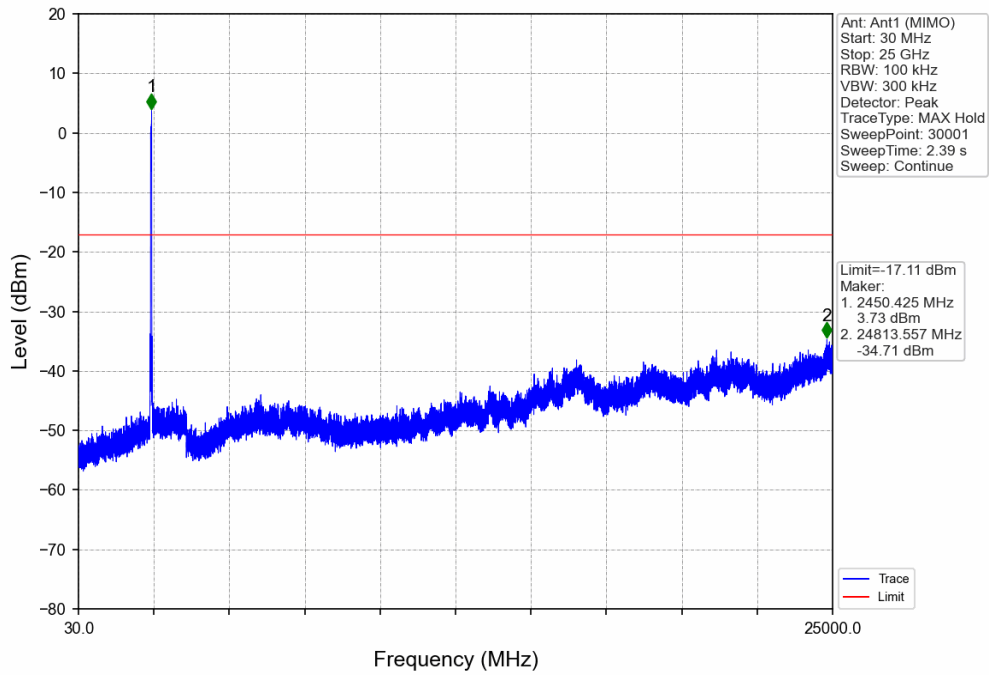
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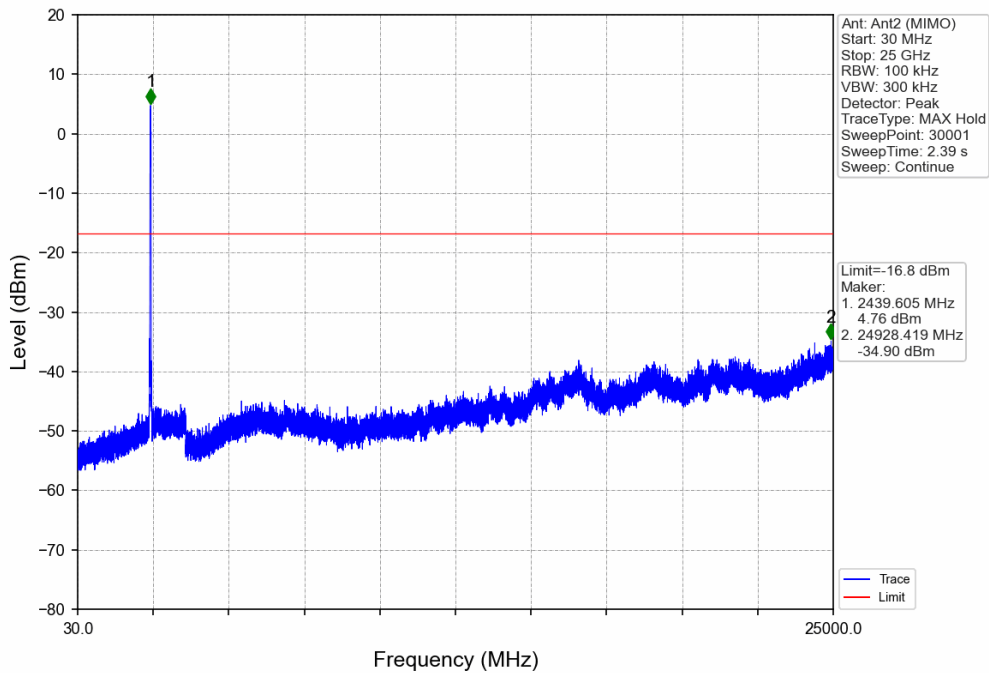
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV

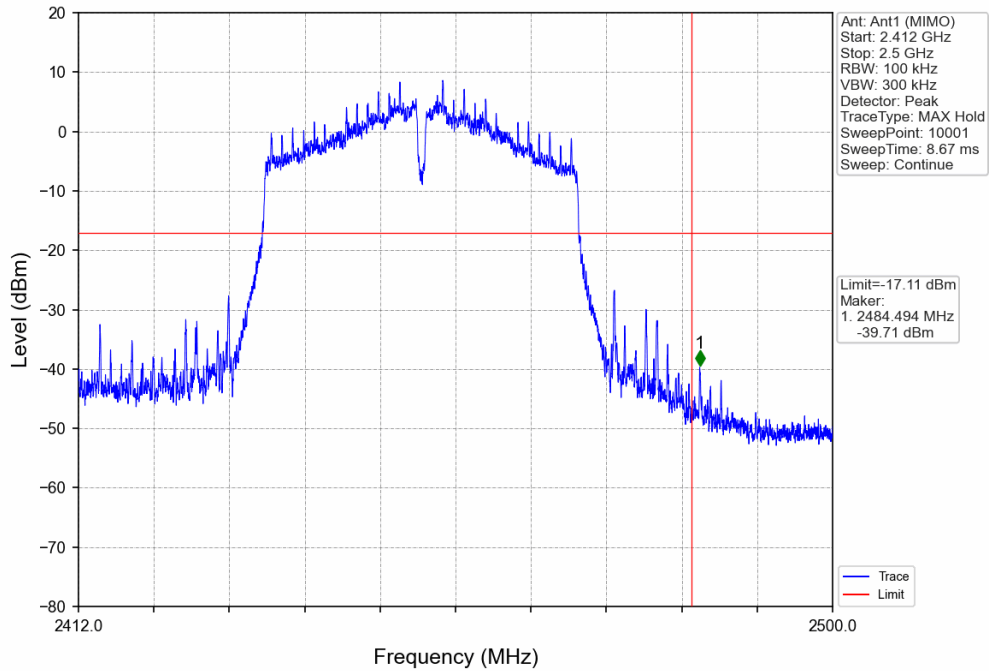


802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

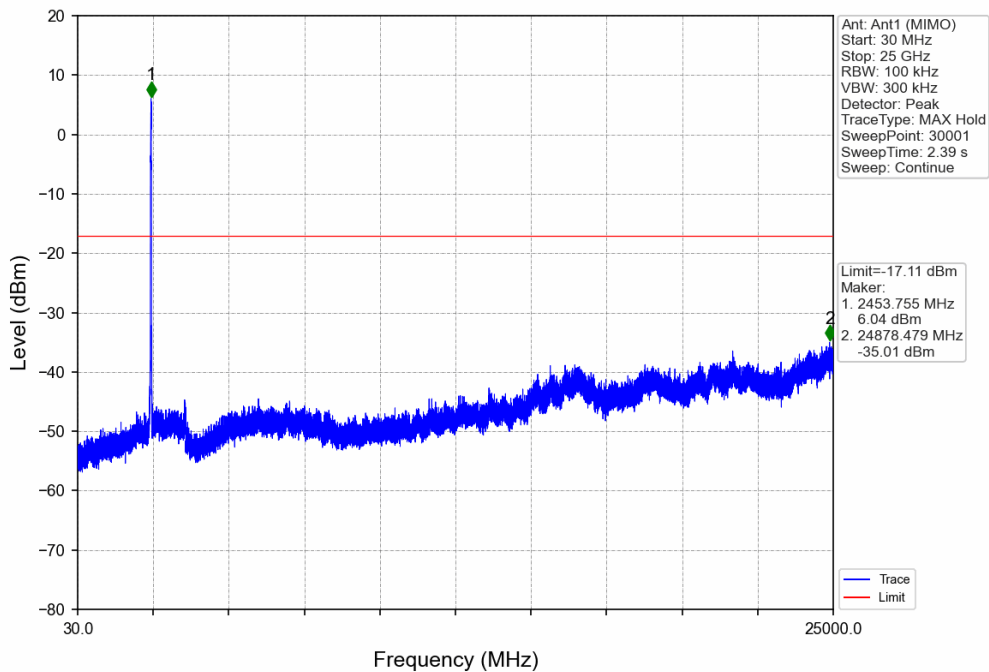


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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



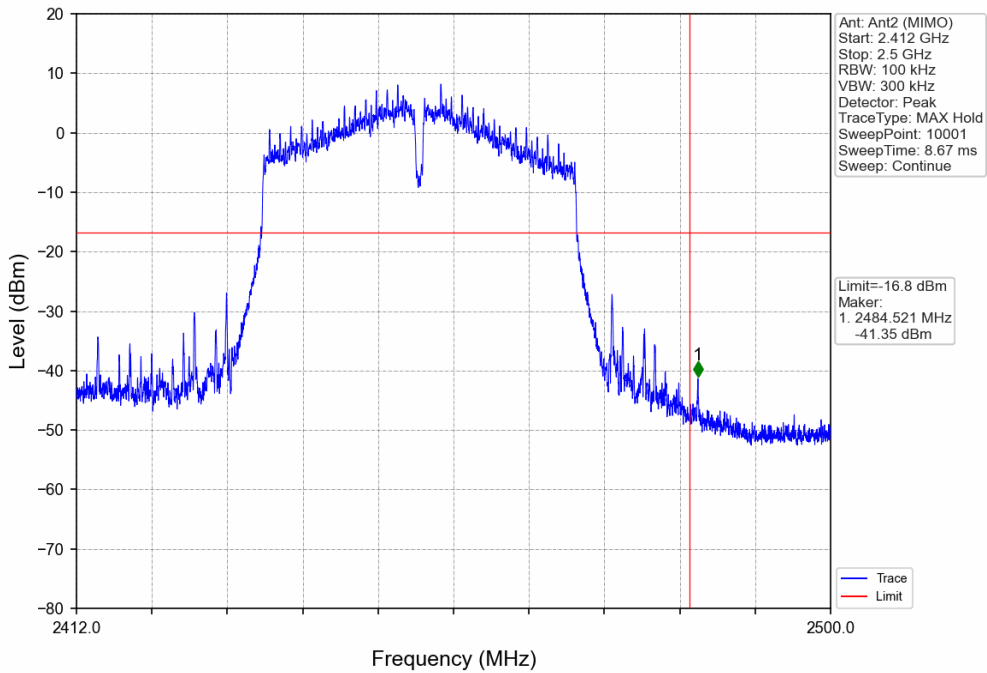
802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



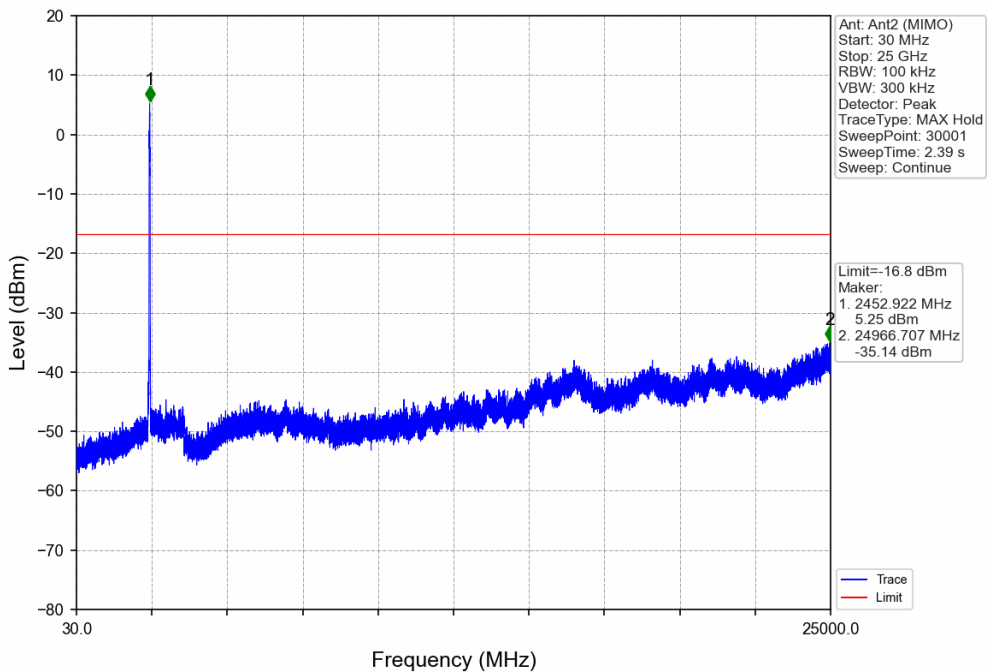
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### 802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



### 802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



- End of the Report -



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