

### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Power Setting	Measured Average Output Power (dBm)			Limit (dBm)	Verdict
						Ant1	Ant2	Sum		
802.11b	SISO	2412	/	/	Default	13.77	13.82	/	<=30	Pass
		2437	/	/	Default	13.52	14.28	/	<=30	Pass
		2462	/	/	Default	14.34	15.39	/	<=30	Pass
802.11g	SISO	2412	/	/	Default	13.49	13.42	/	<=30	Pass
		2437	/	/	Default	13.19	13.87	/	<=30	Pass
		2462	/	/	Default	14.23	14.99	/	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	Default	14.05	13.75	16.91	<=30	Pass
		2437	/	/	Default	13.60	14.56	17.12	<=30	Pass
		2462	/	/	Default	14.72	15.41	18.09	<=30	Pass
802.11n (HT40)	MIMO	2422	/	/	Default	14.32	14.97	17.67	<=30	Pass
		2437	/	/	Default	14.17	15.14	17.69	<=30	Pass
		2452	/	/	Default	14.93	16.79	18.97	<=30	Pass

Note1: Antenna Gain: Ant1: 3.20dBi; Ant2: 3.20dBi;

Since the number of transmit antennas is less than 4, Array gain=0dB.

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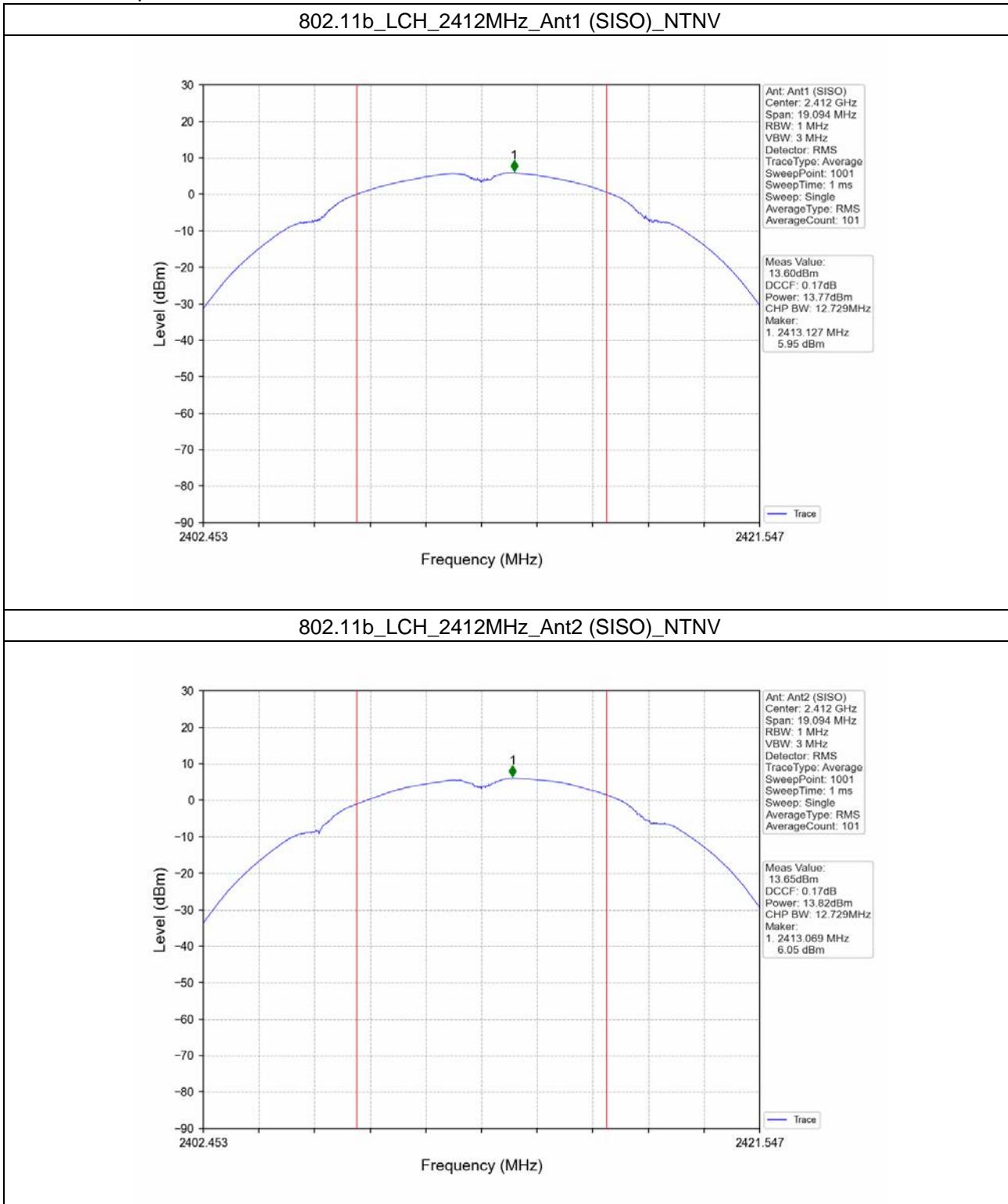
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## 3.1.2 Test Graph



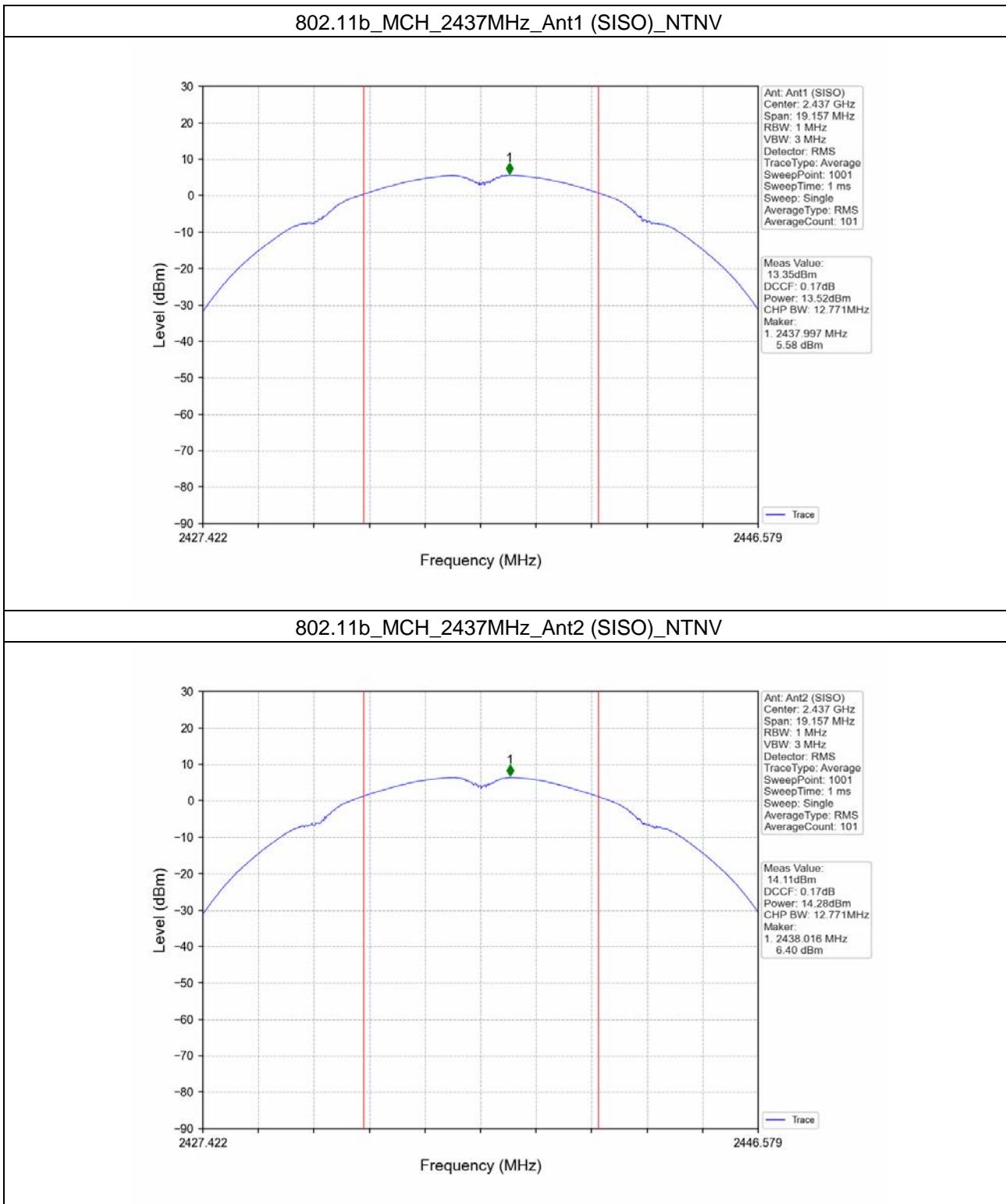
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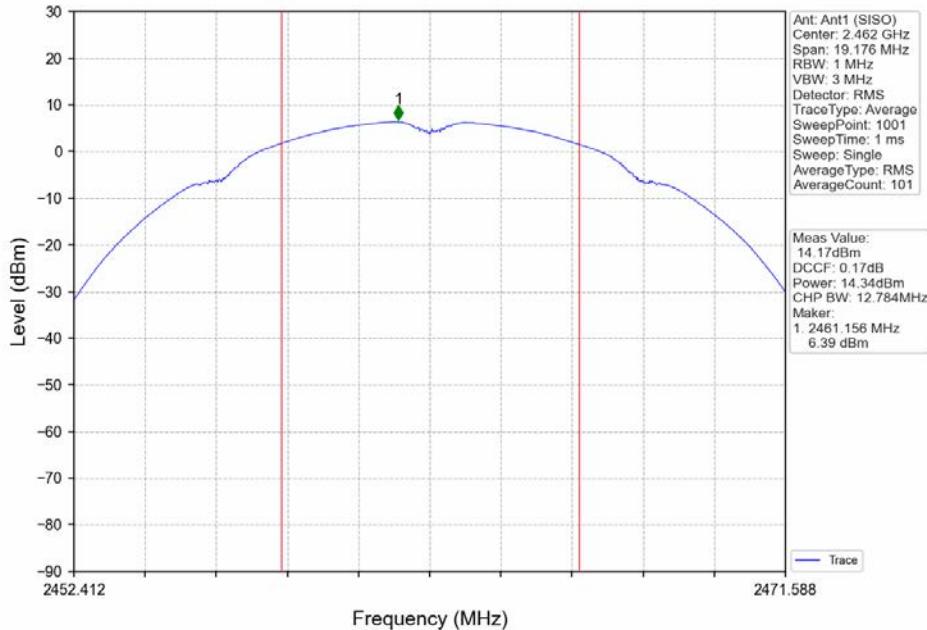
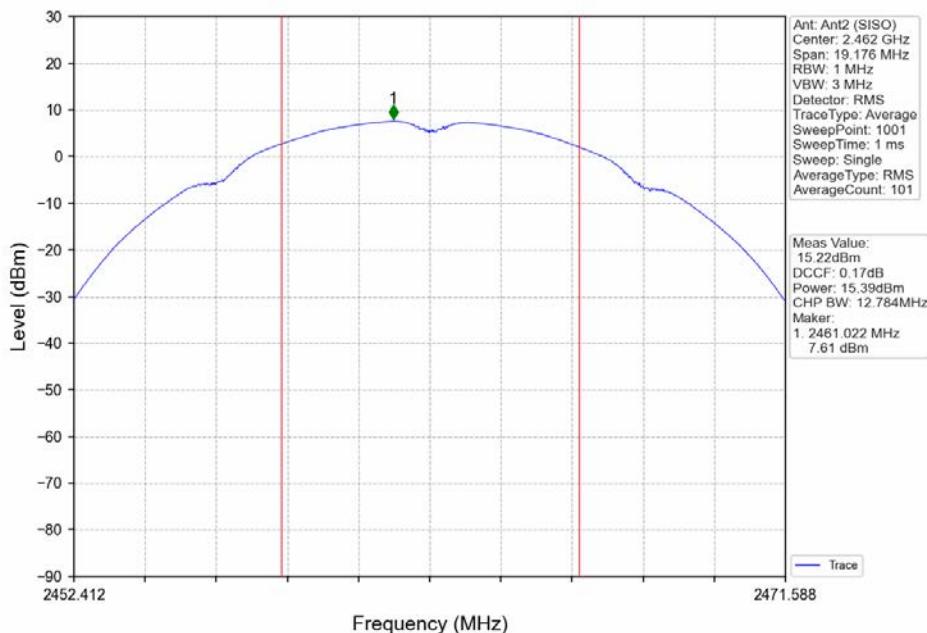
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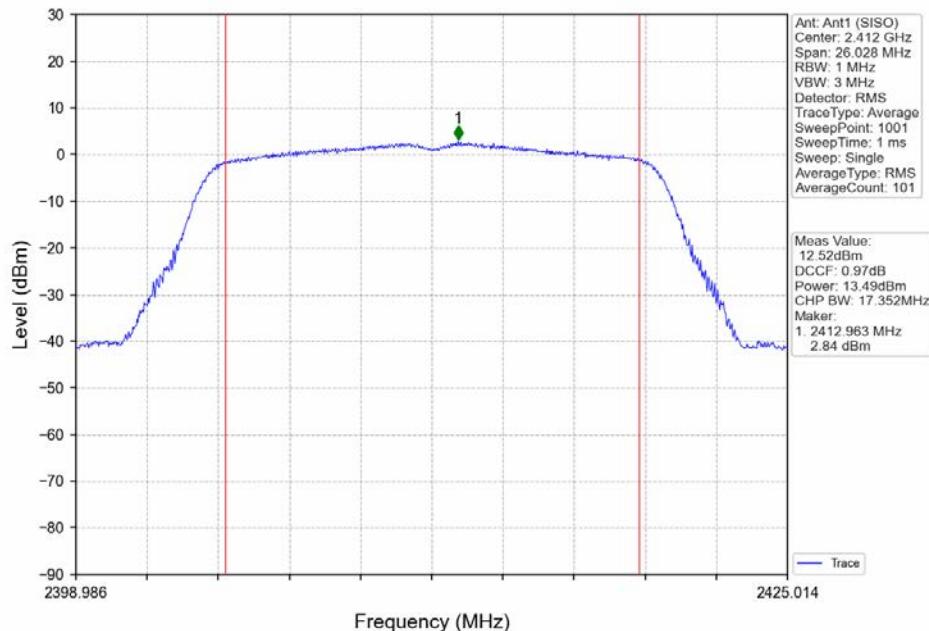
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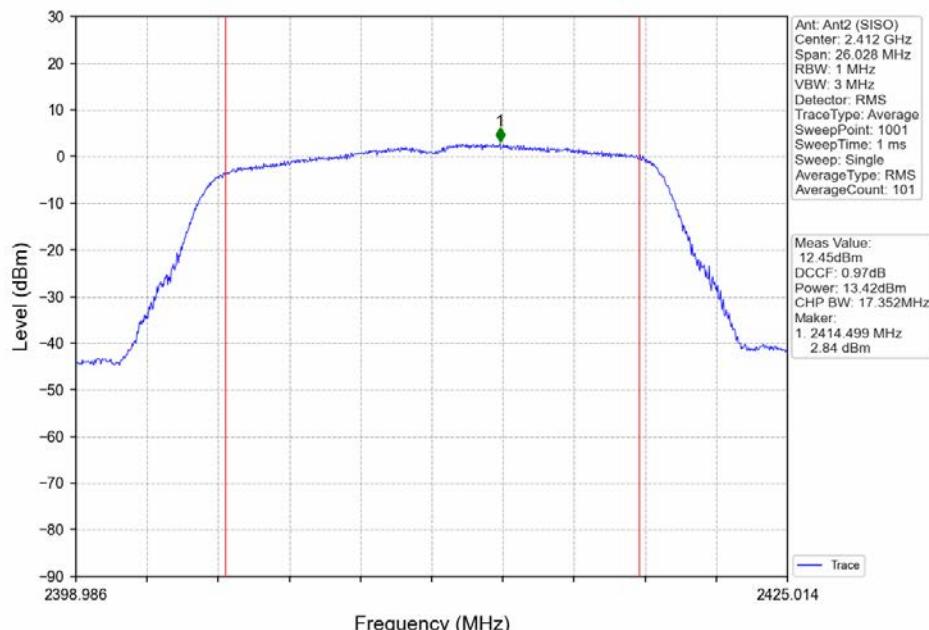
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## 802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



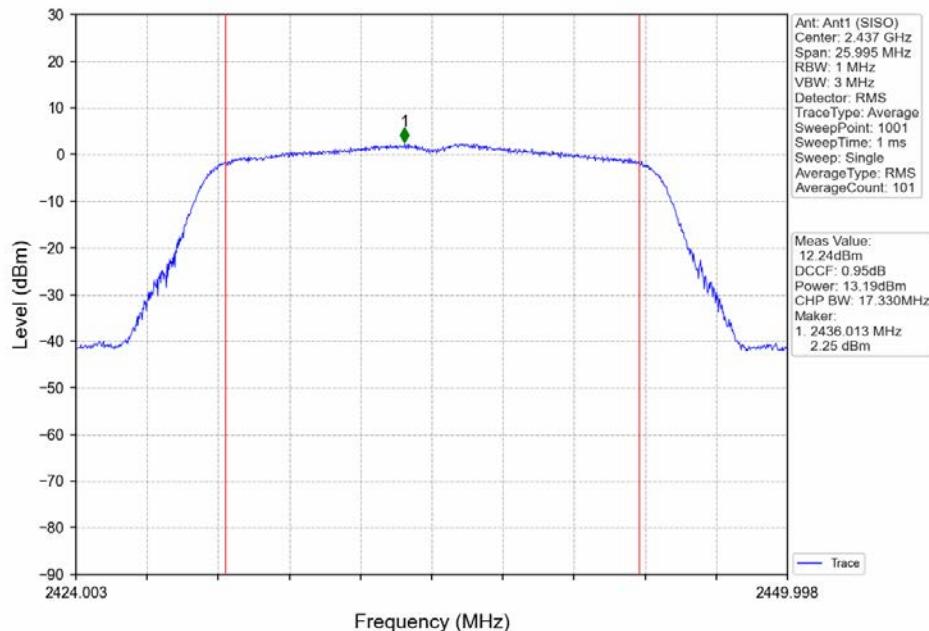
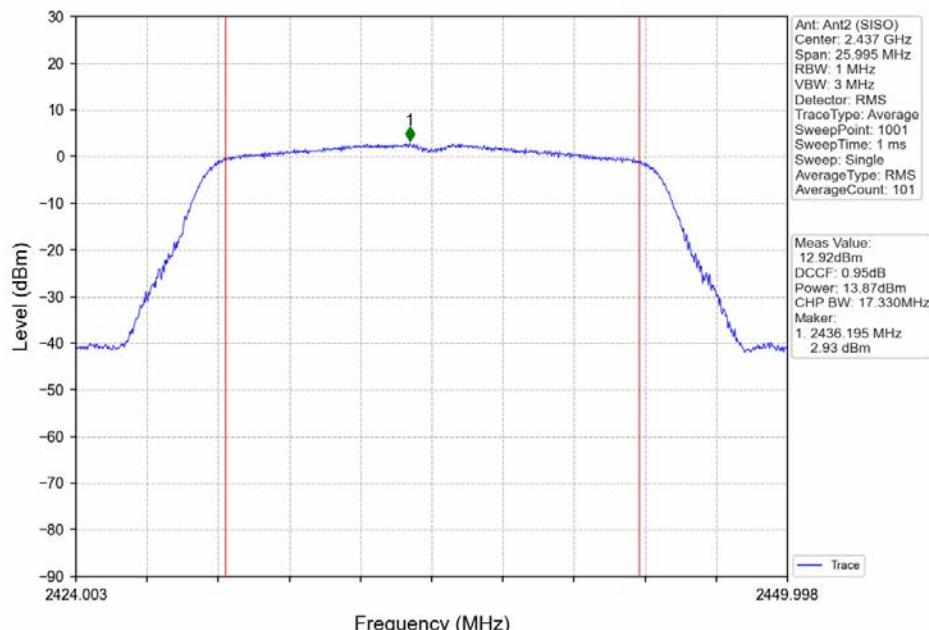
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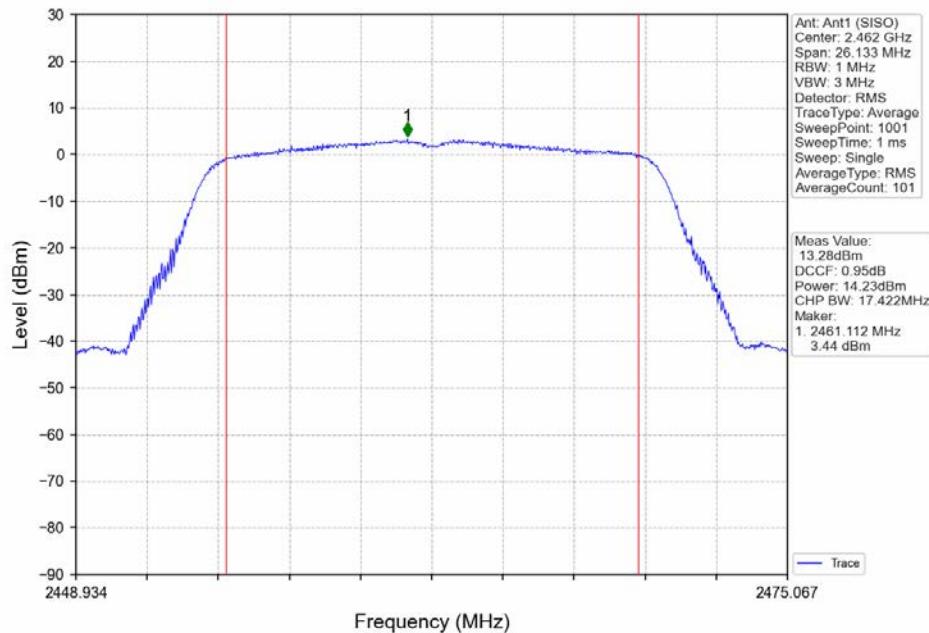
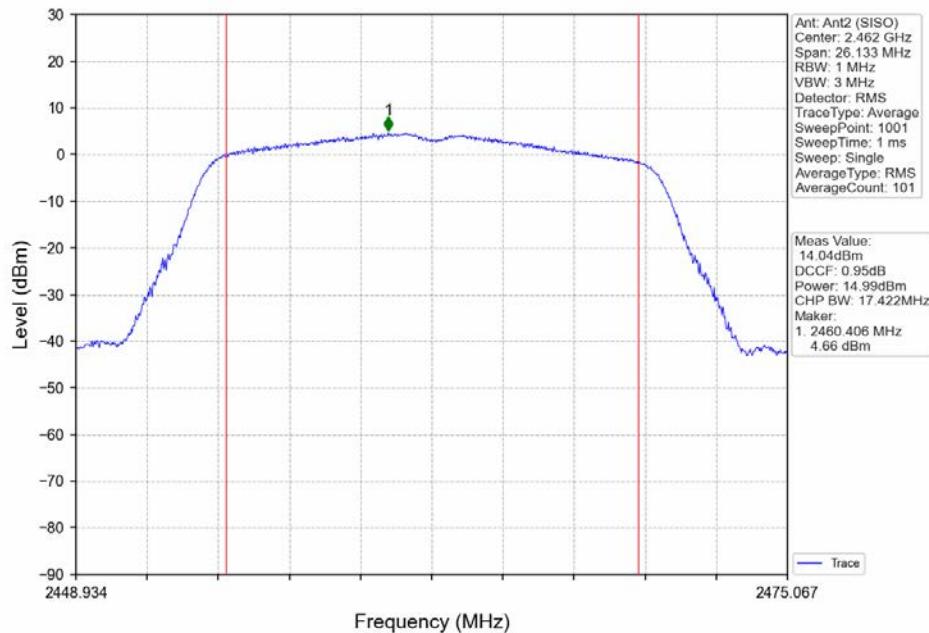
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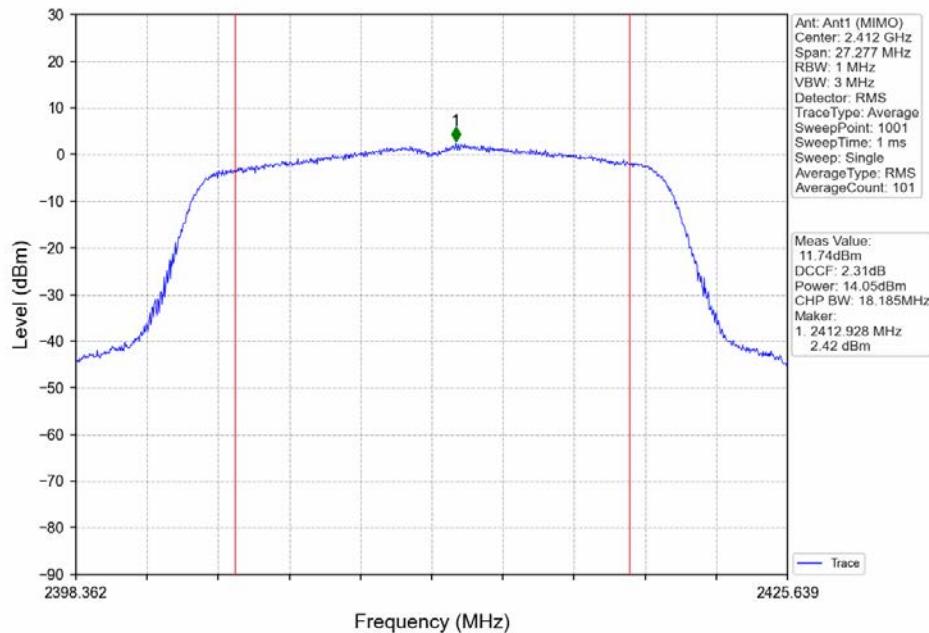
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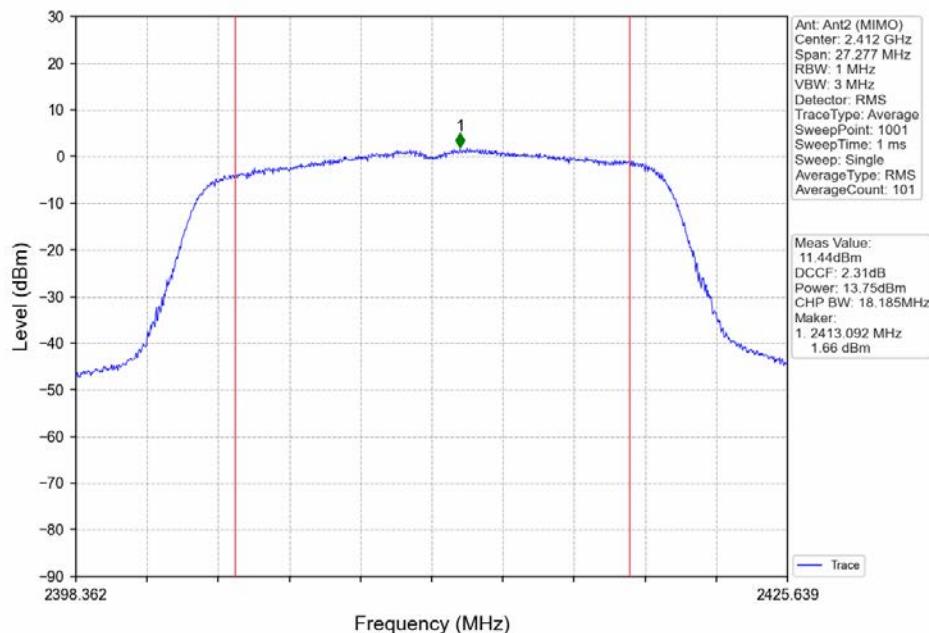
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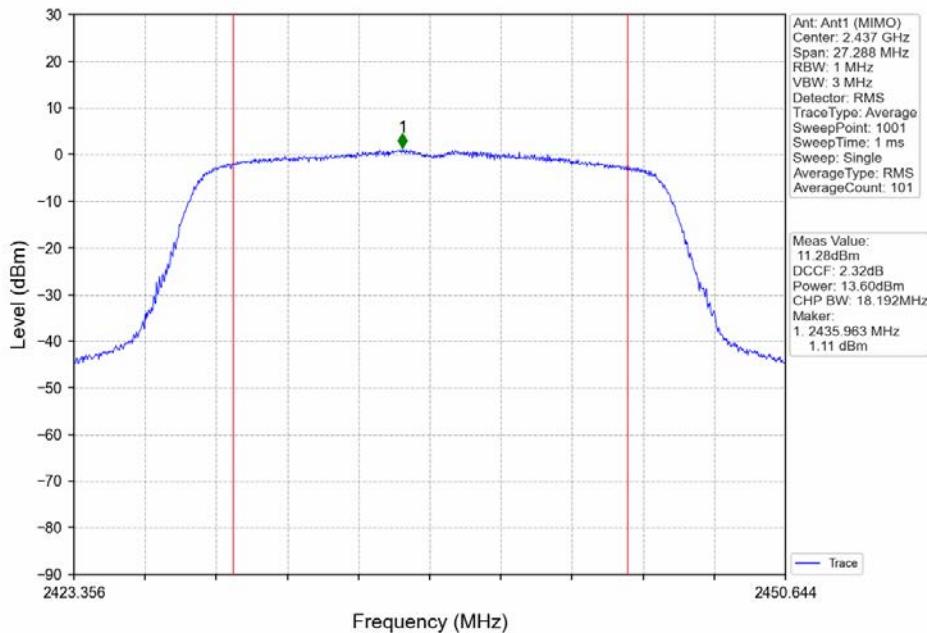
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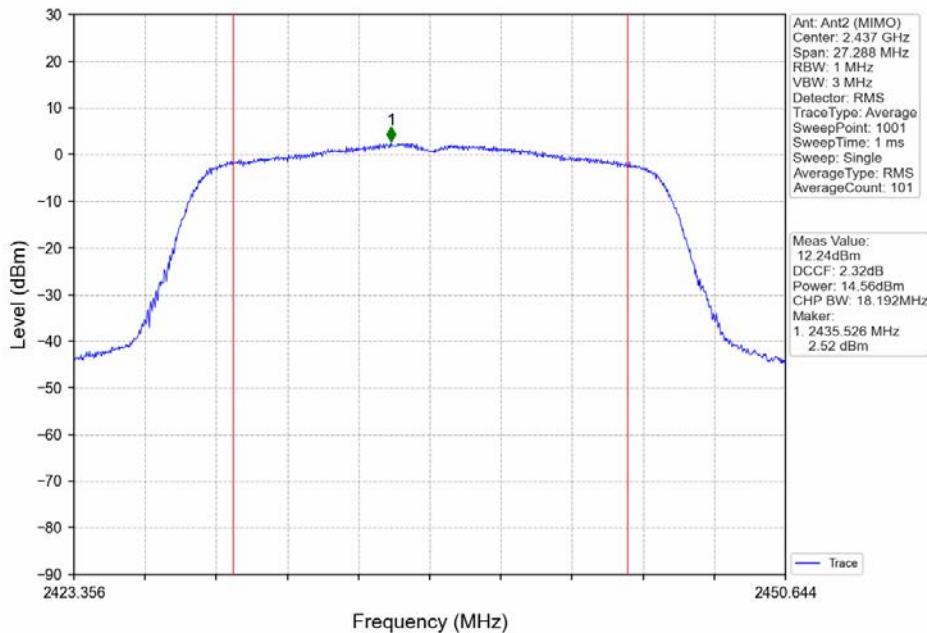
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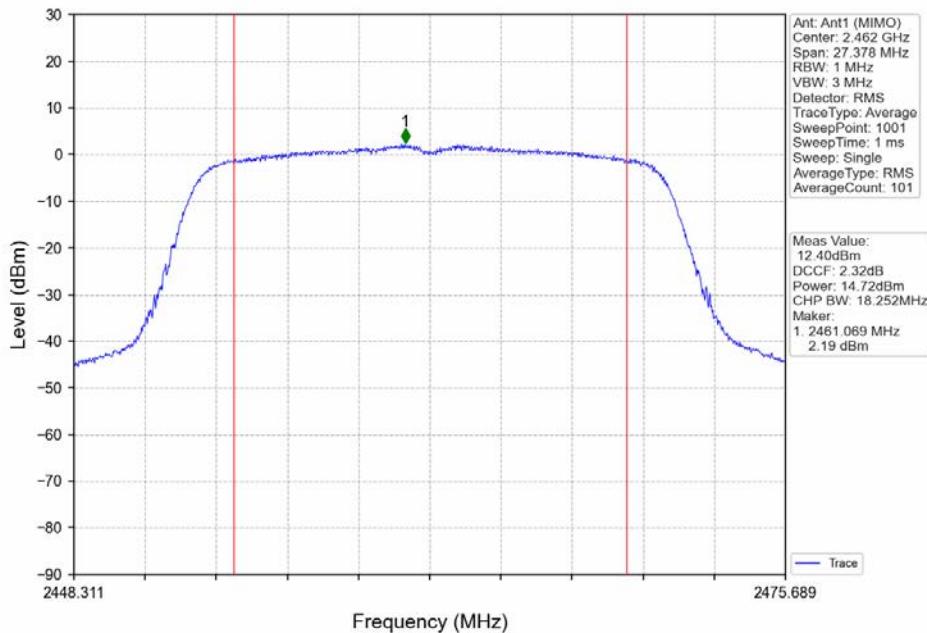
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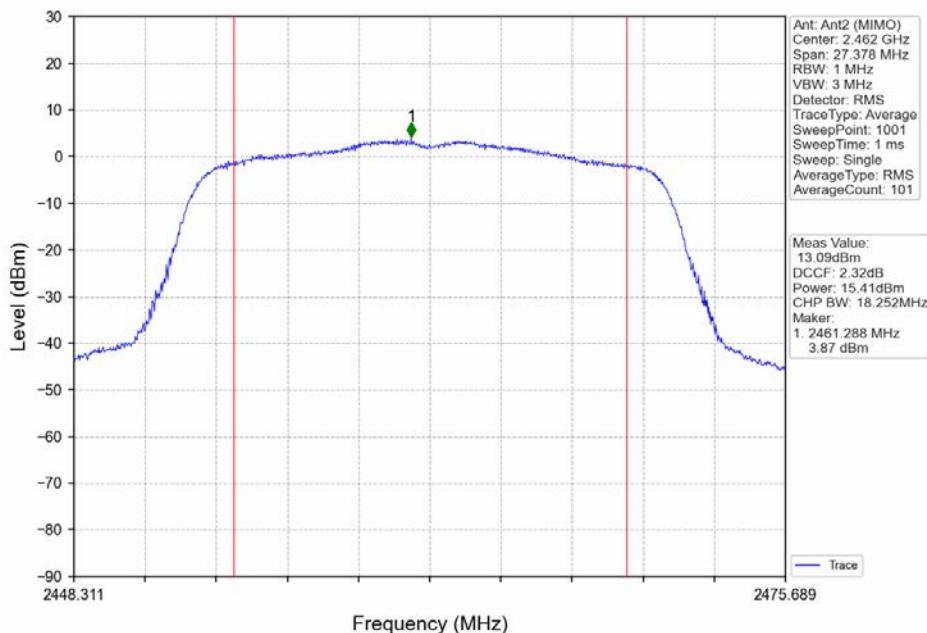
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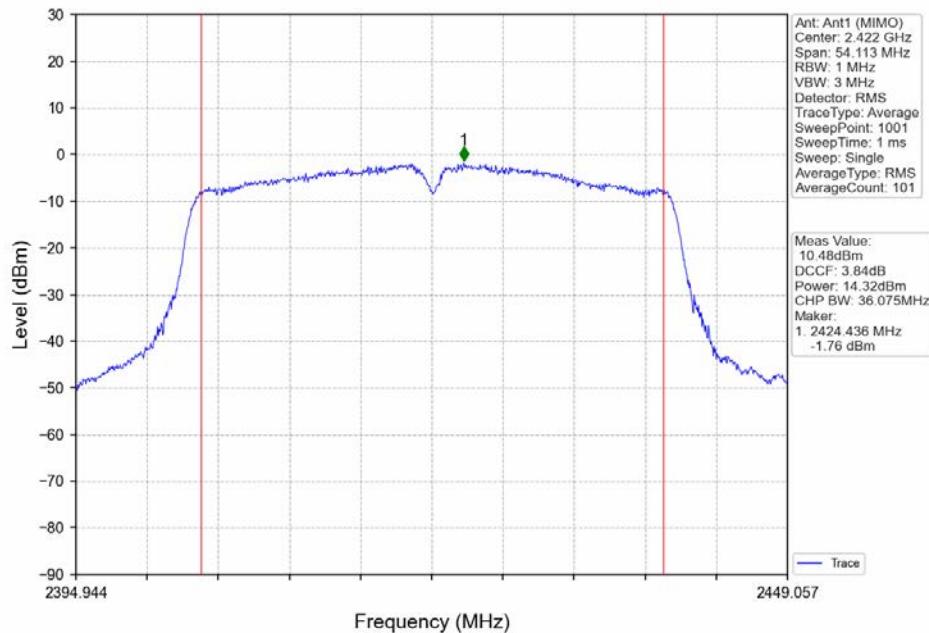
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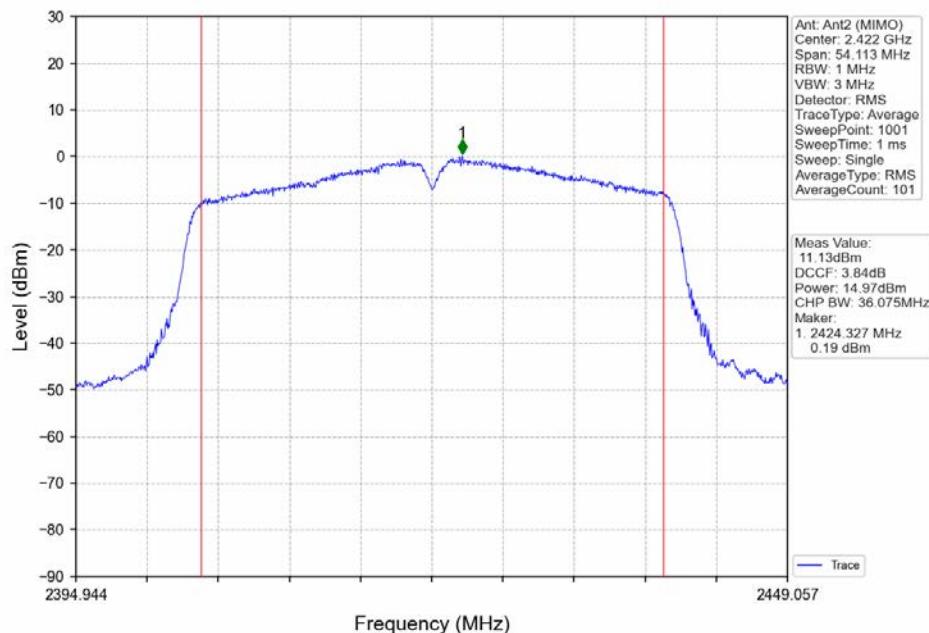
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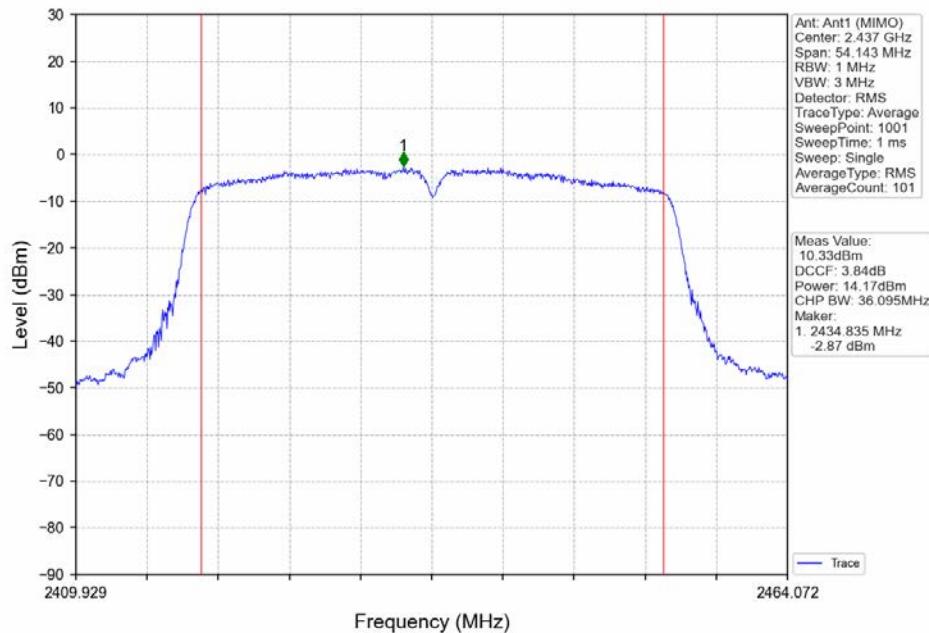
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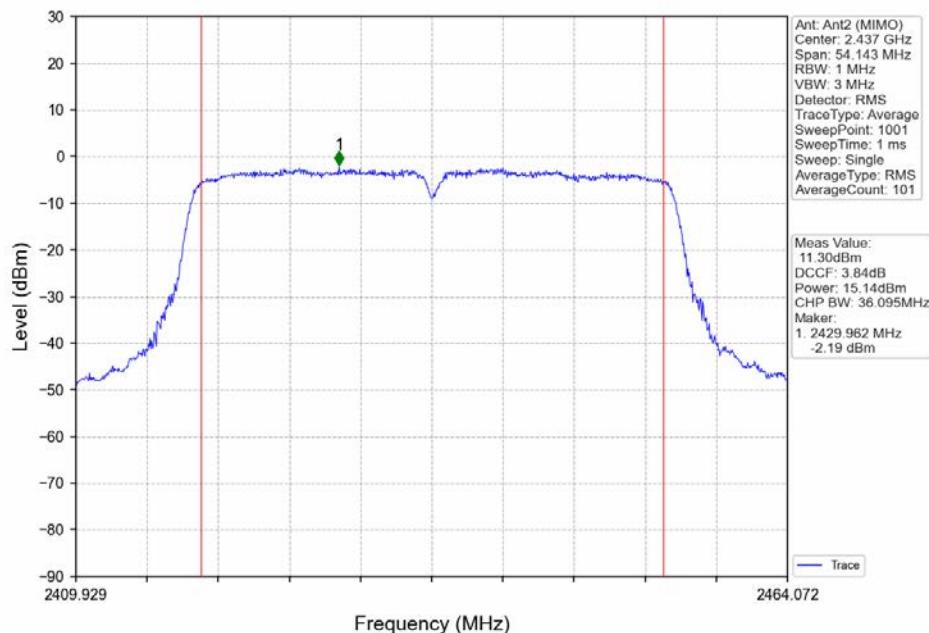
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## 802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



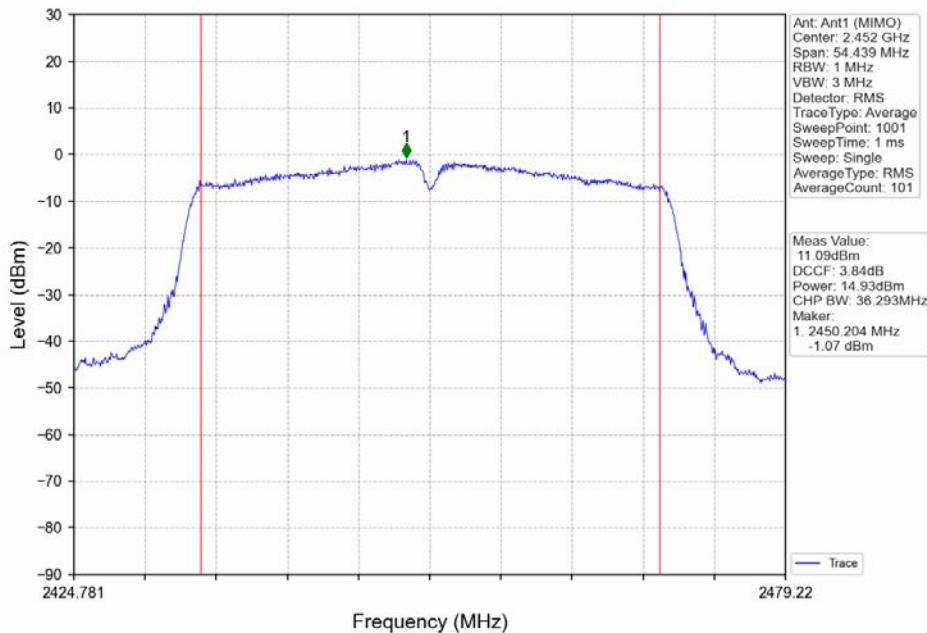
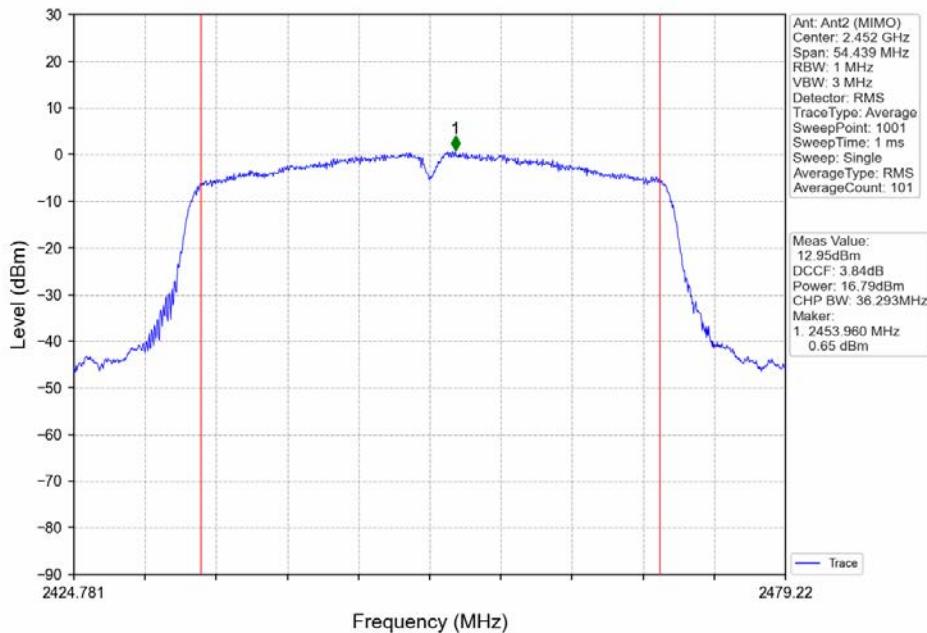
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**802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV****802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV**

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## 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	/	/	-3.12	-9.91	/	<=8	Pass
		2437	/	/	-1.08	1.69	/	<=8	Pass
		2462	/	/	4.40	2.99	/	<=8	Pass
802.11g	SISO	2412	/	/	-12.69	-12.28	/	<=8	Pass
		2437	/	/	-12.54	-11.80	/	<=8	Pass
		2462	/	/	-12.82	-11.81	/	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-11.94	-11.74	-9.46	<=8	Pass
		2437	/	/	-12.24	-11.11	-8.63	<=8	Pass
		2462	/	/	-12.52	-8.71	-7.29	<=8	Pass
802.11n (HT40)	MIMO	2422	/	/	-14.82	-13.41	-11.50	<=8	Pass
		2437	/	/	-15.32	-14.32	-12.69	<=8	Pass
		2452	/	/	-14.50	-11.82	-10.32	<=8	Pass

Note1: Antenna Gain: Ant1: 3.20dBi; Ant2: 3.20dBi;  
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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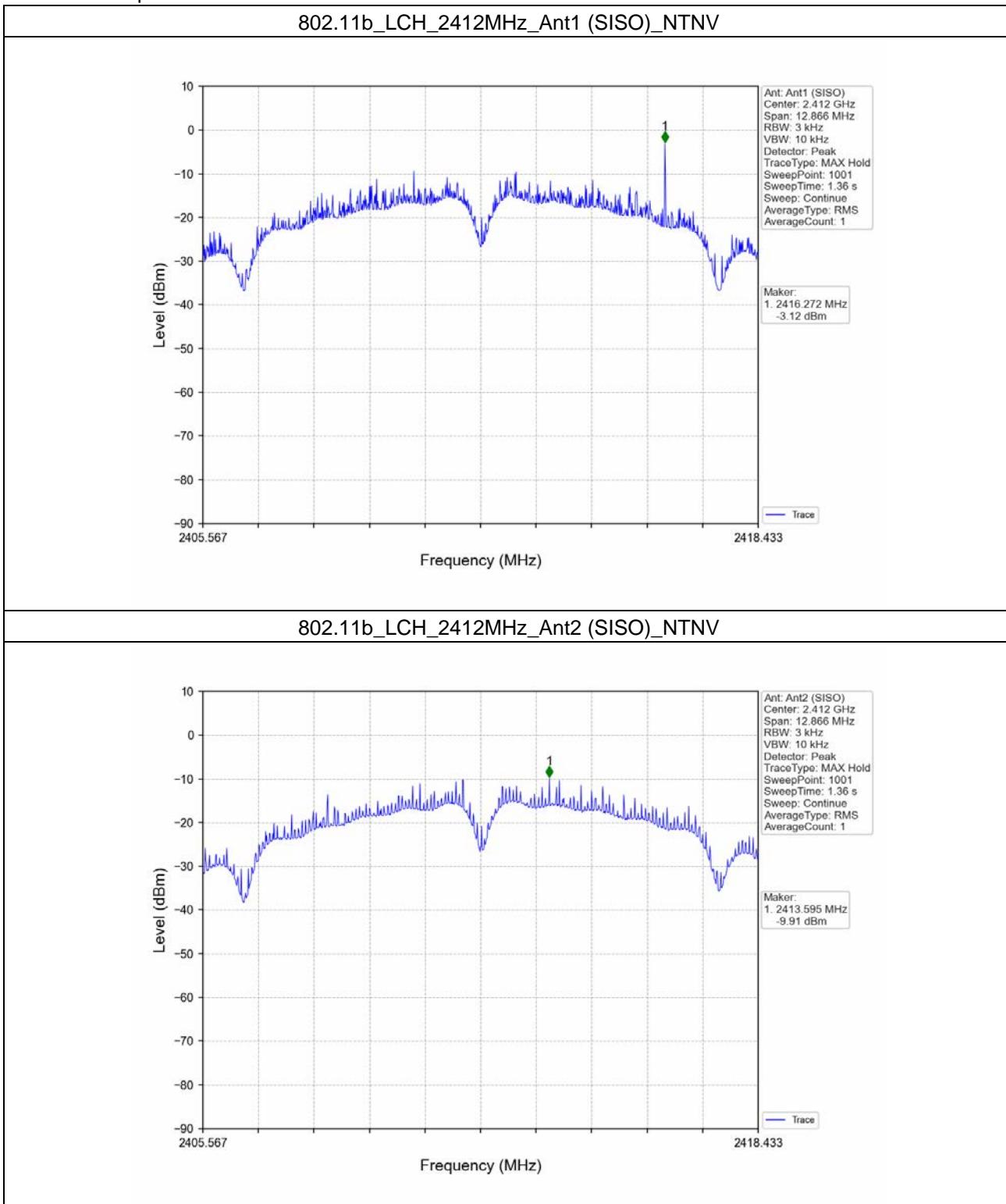
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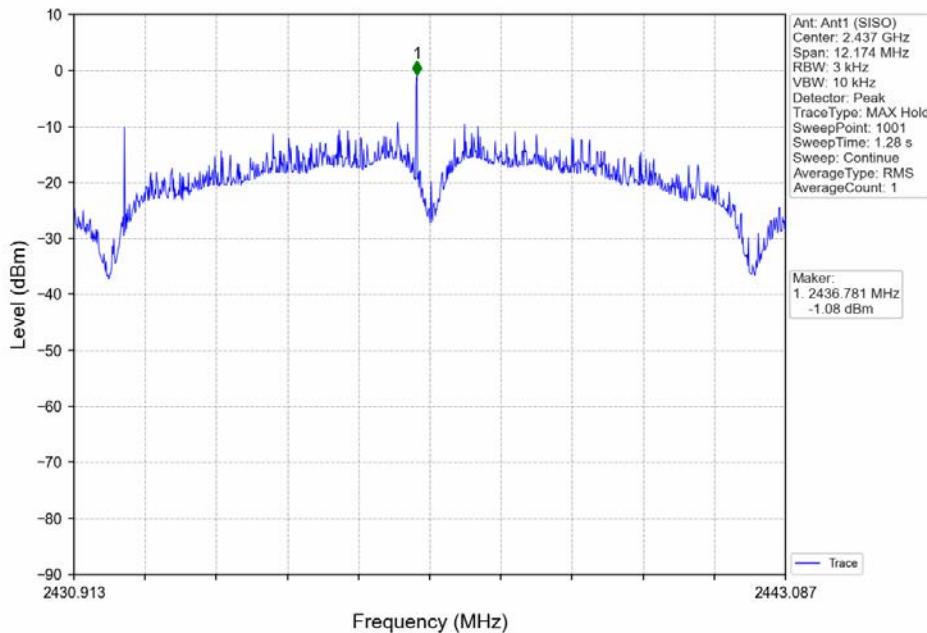
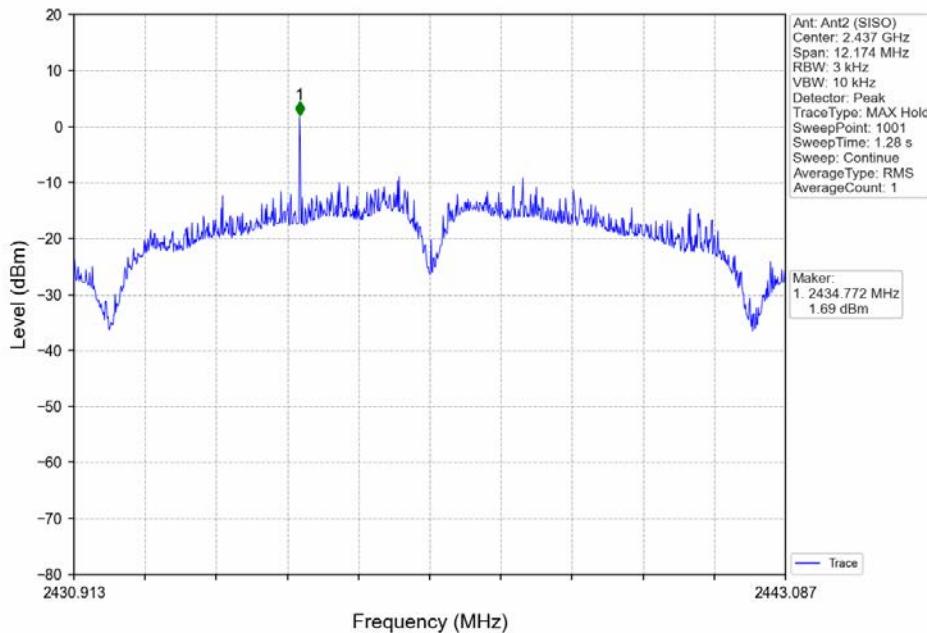


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## 4.1.2 Test Graph



**802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV****802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV**

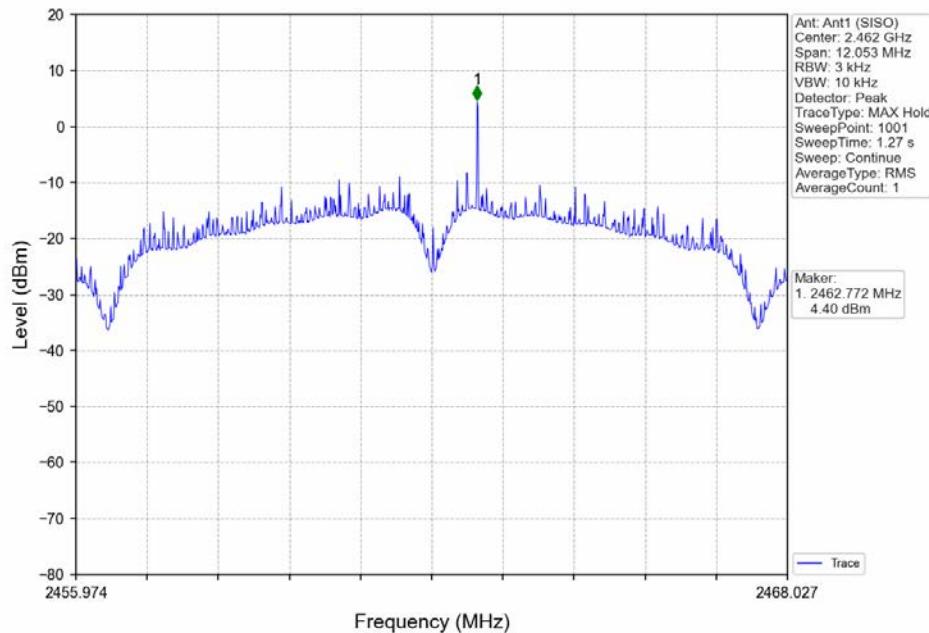
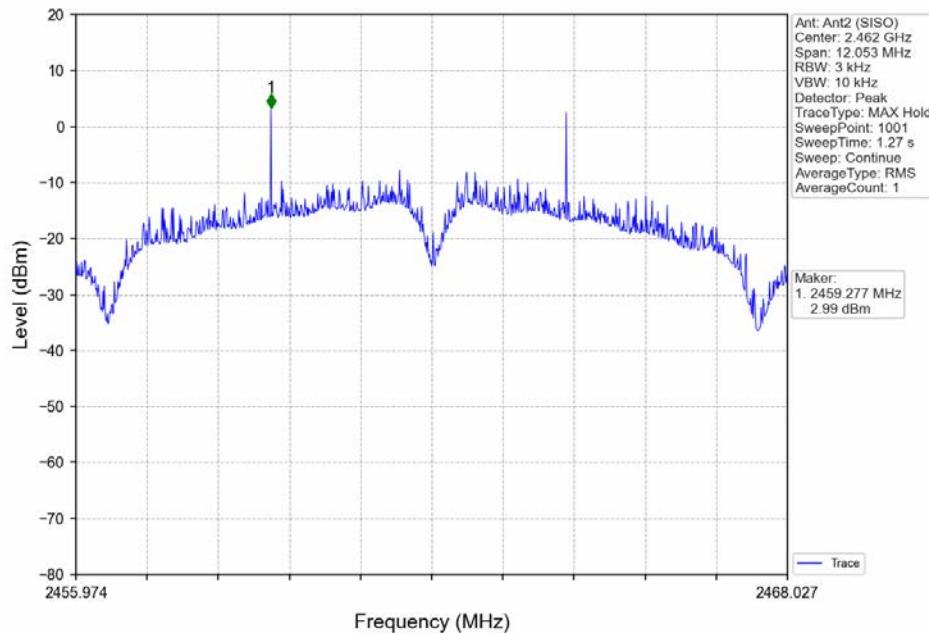
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**802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV****802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV**

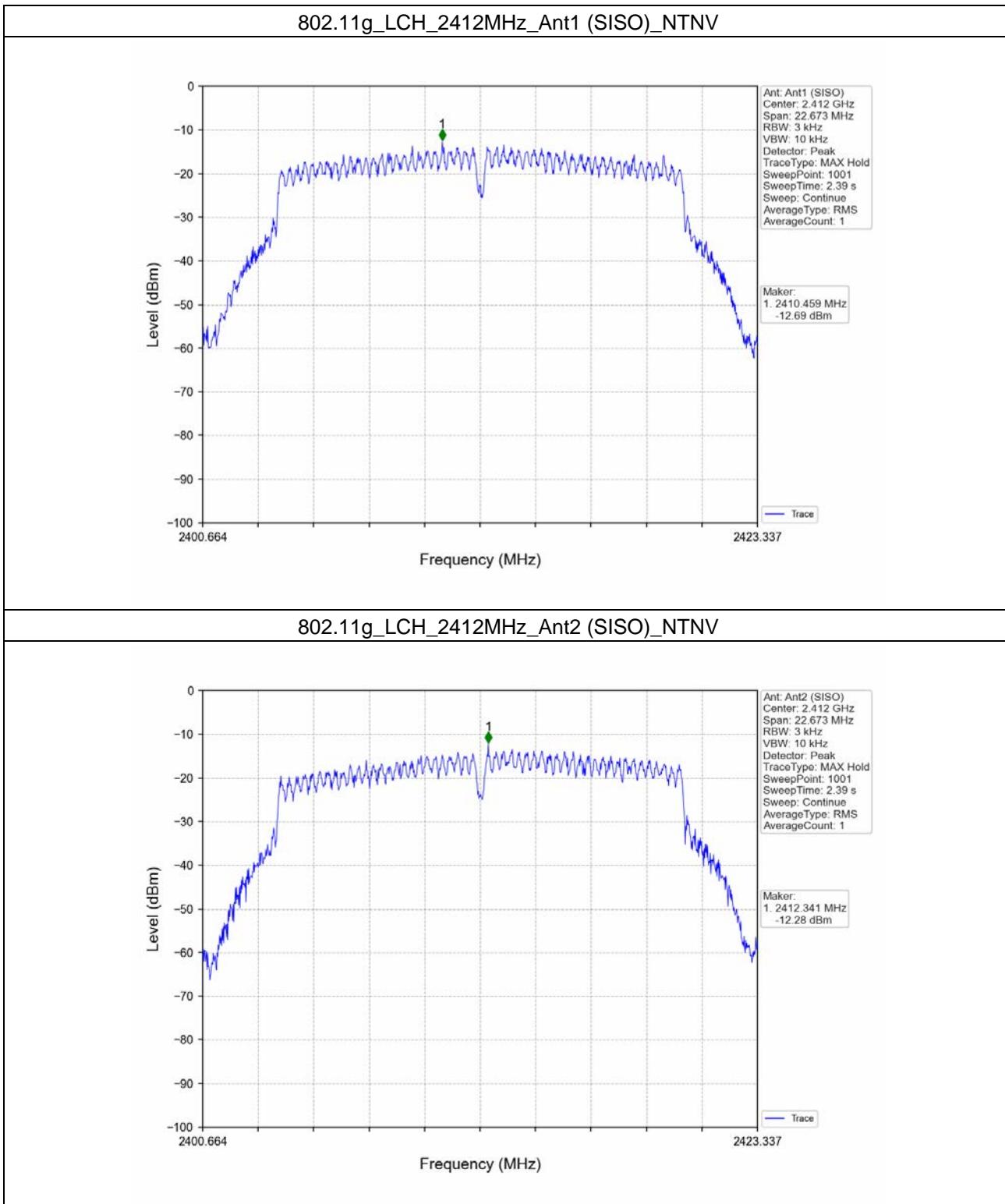
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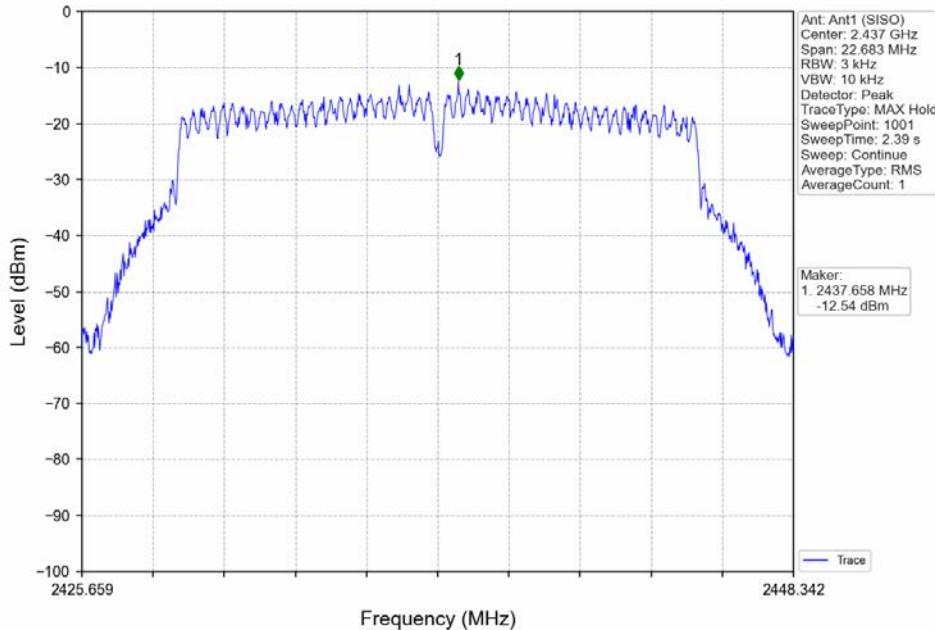
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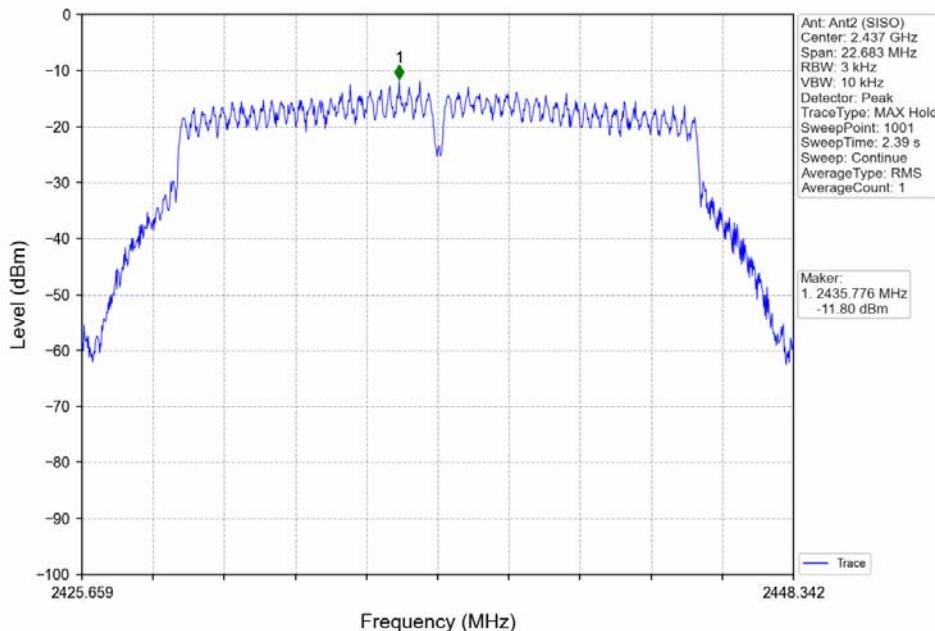
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### 802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



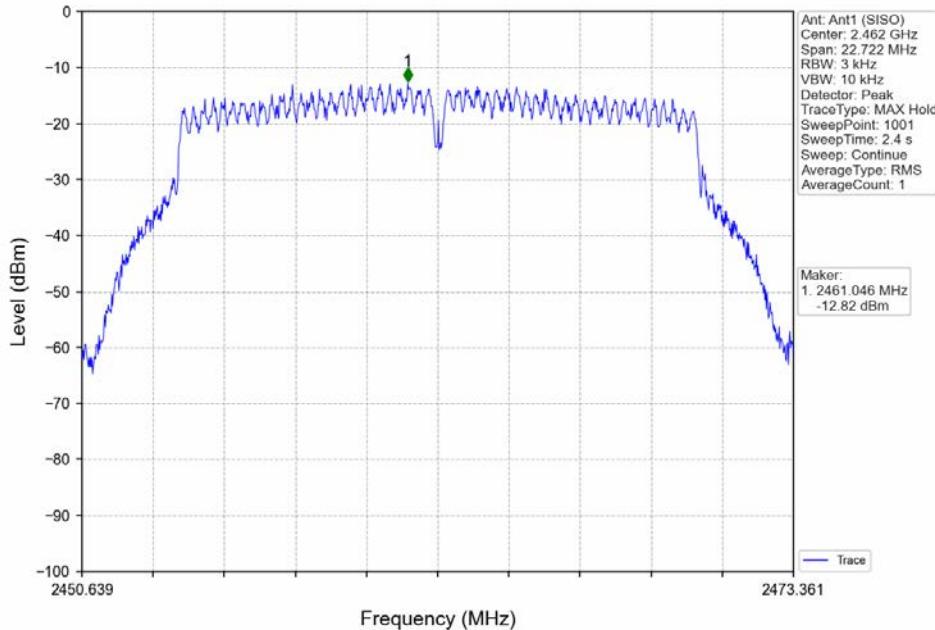
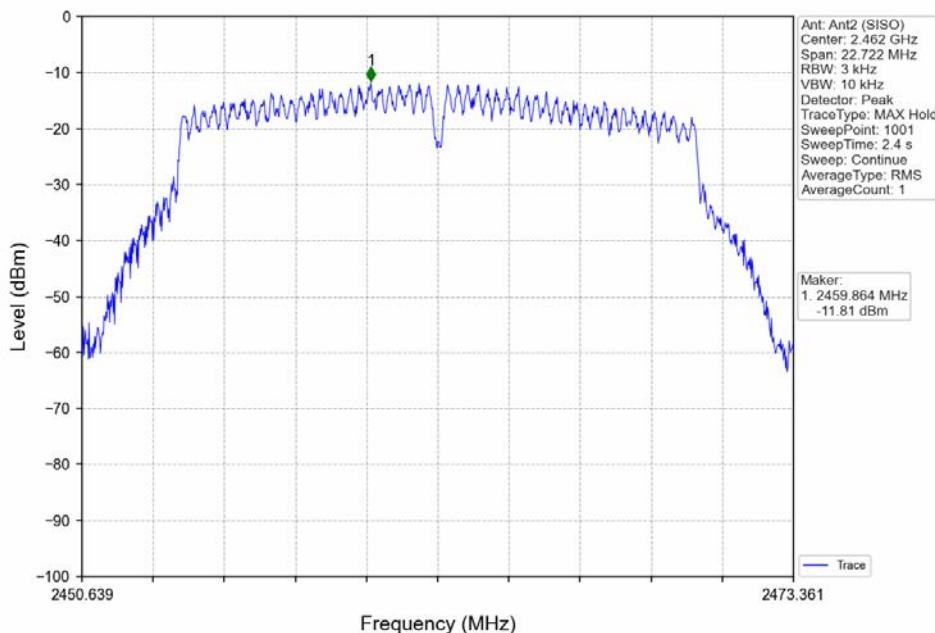
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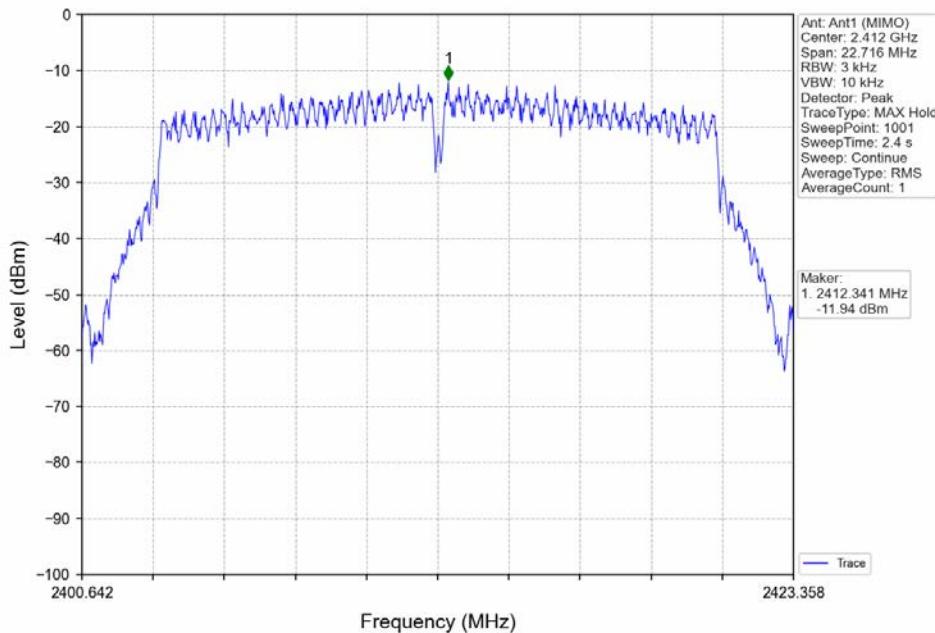
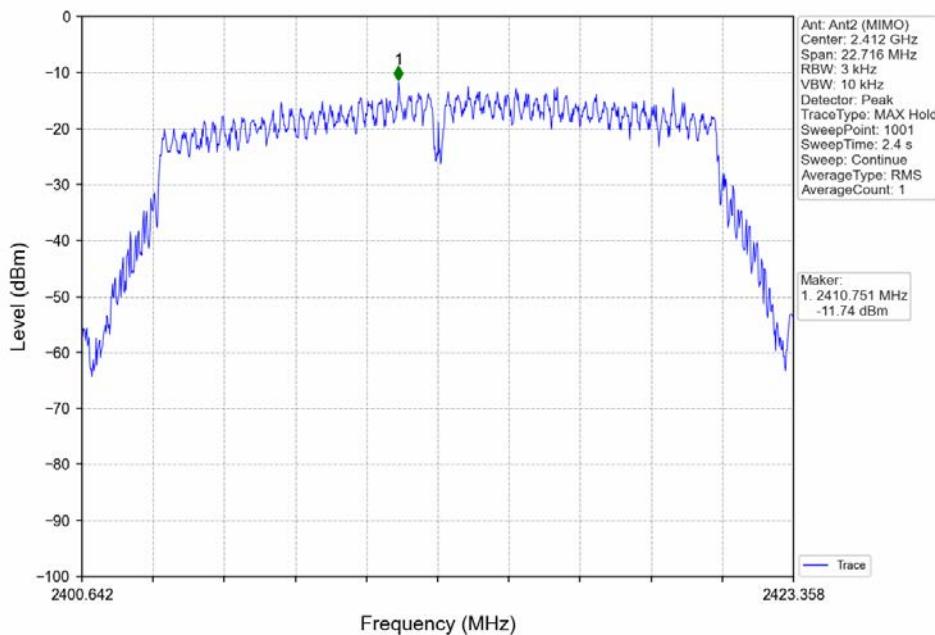
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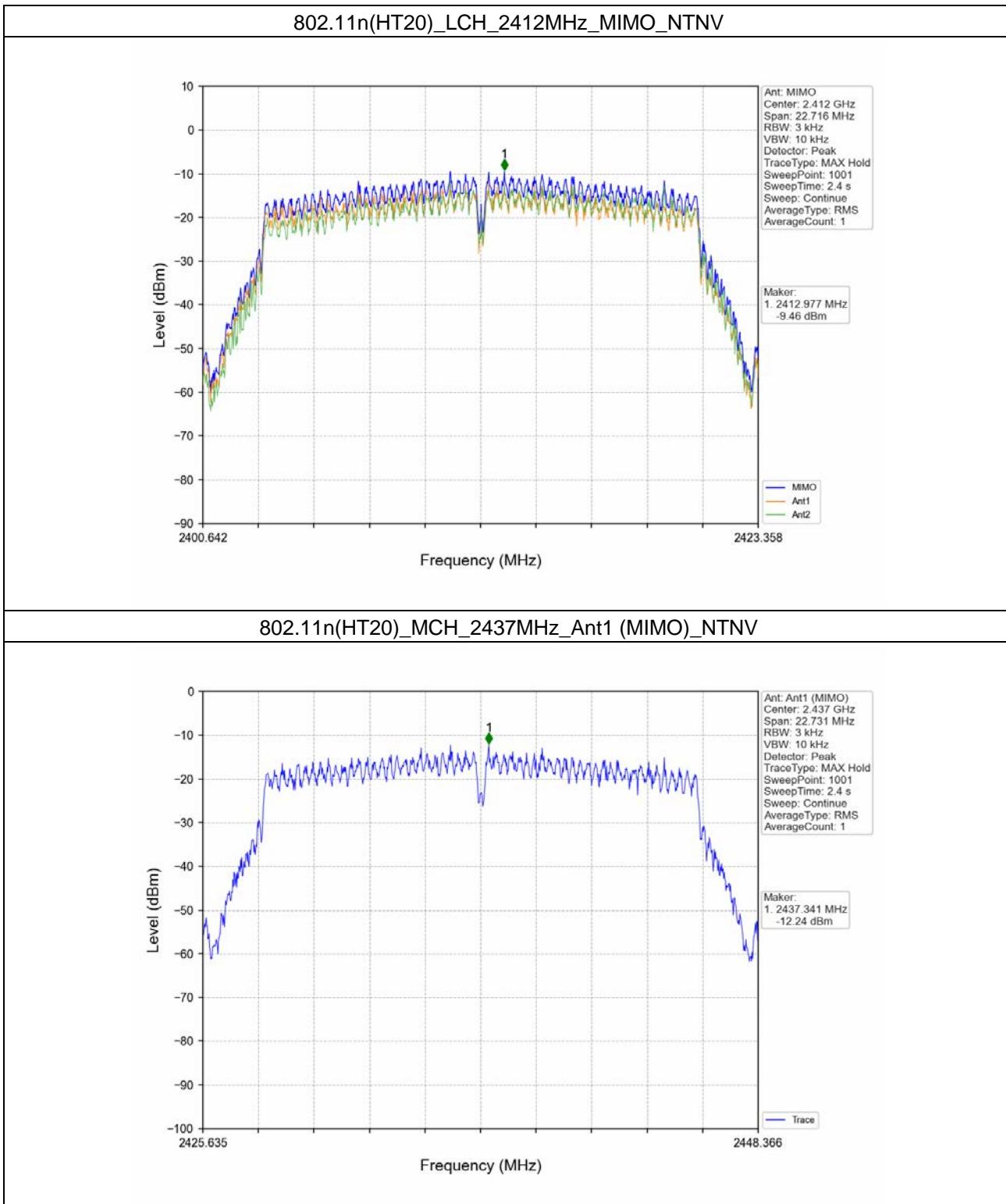
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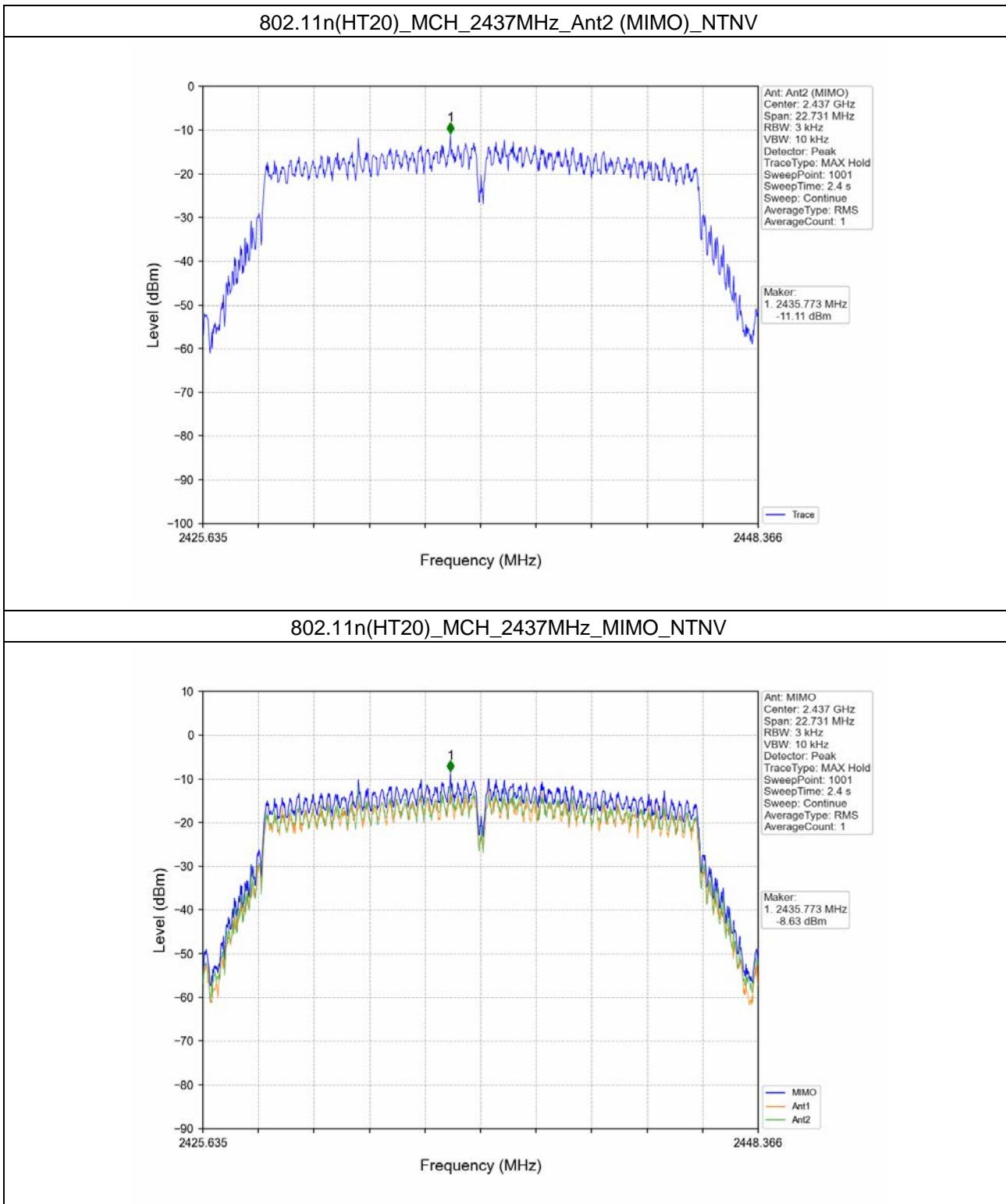


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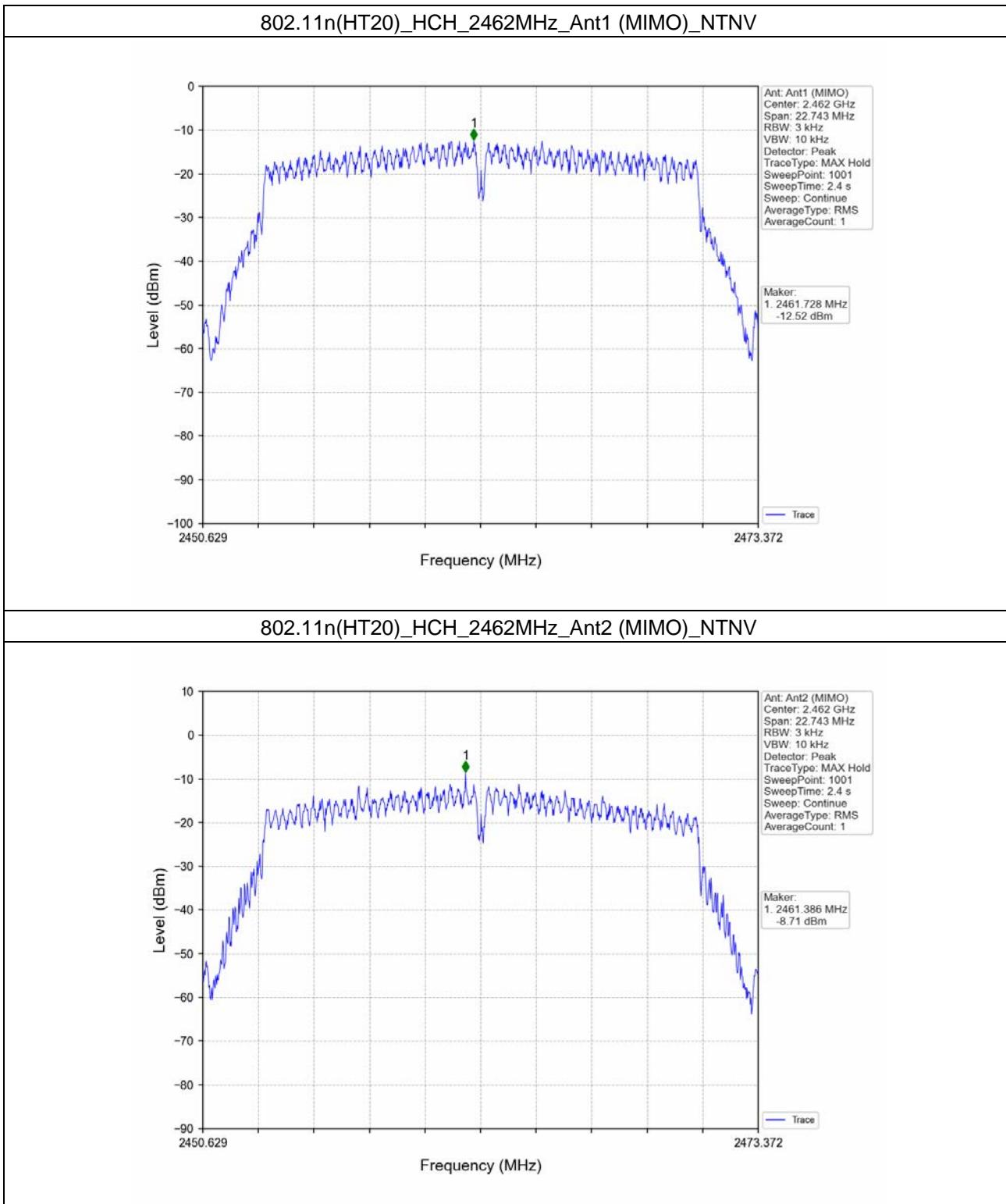
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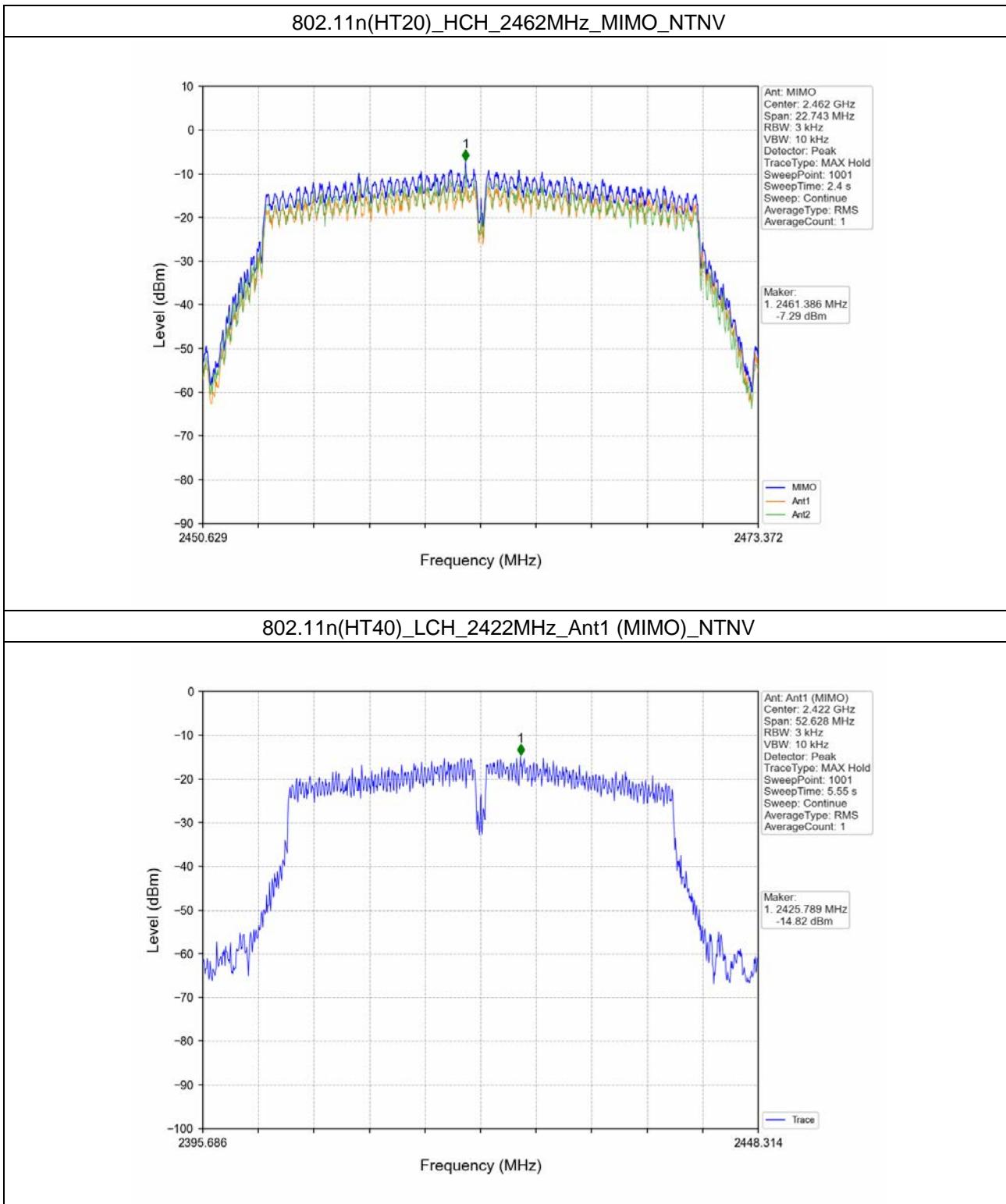
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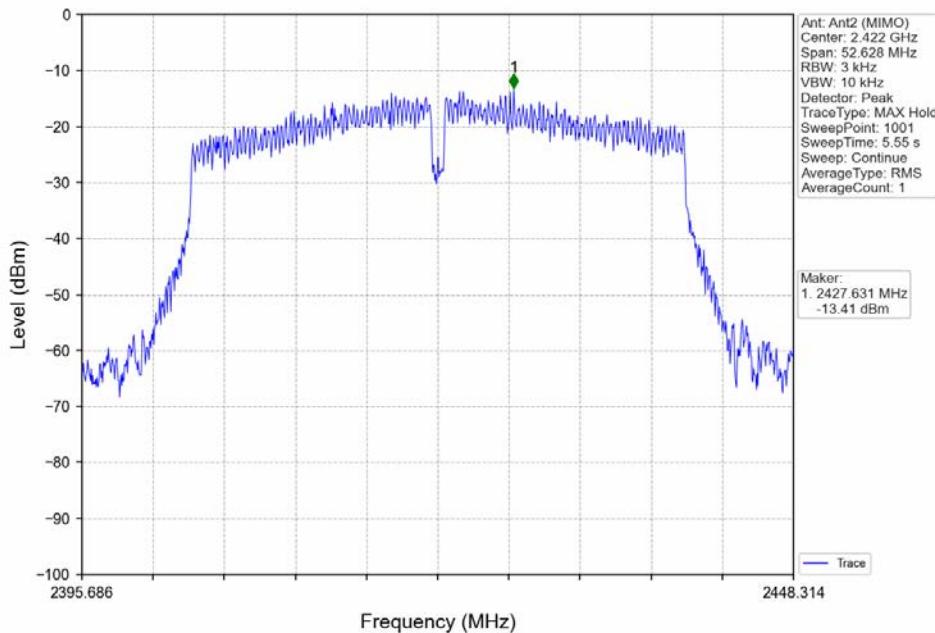


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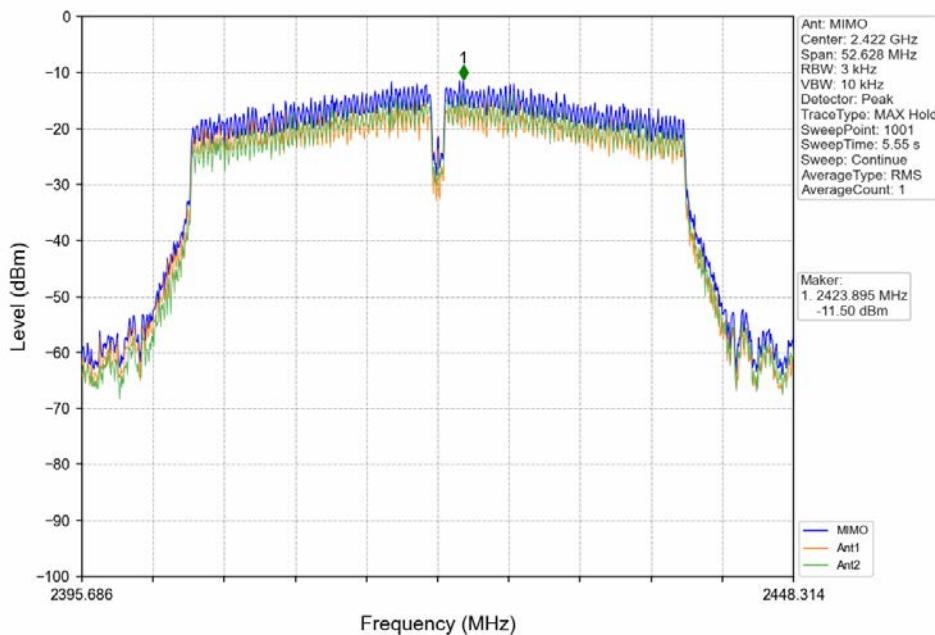
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## 802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



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



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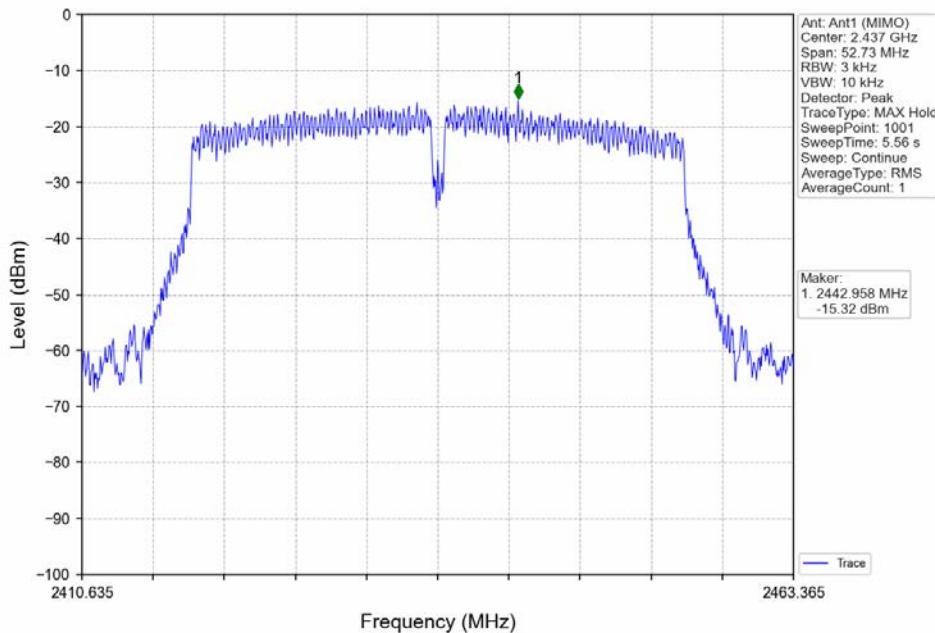
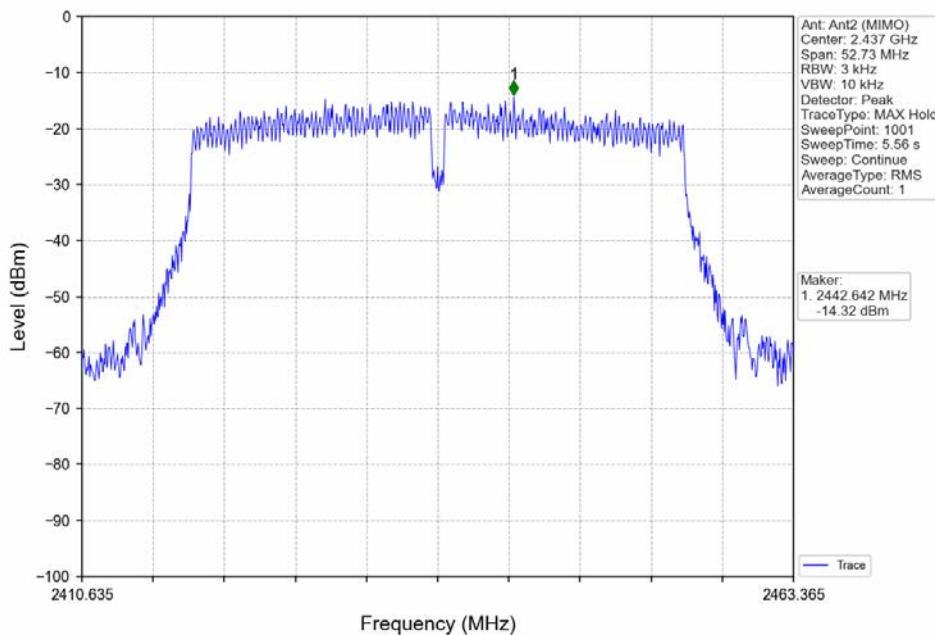
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**802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV****802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV**

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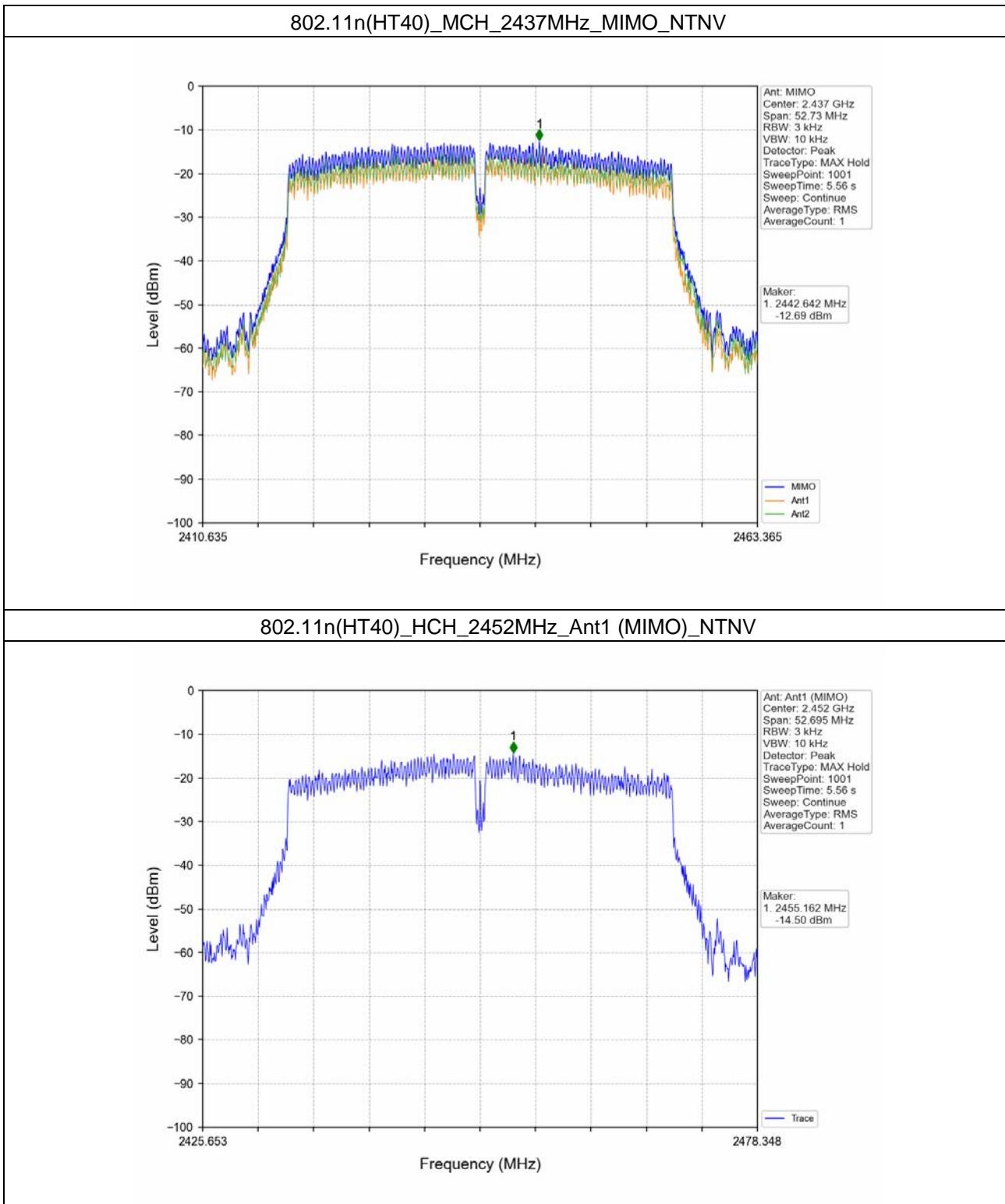


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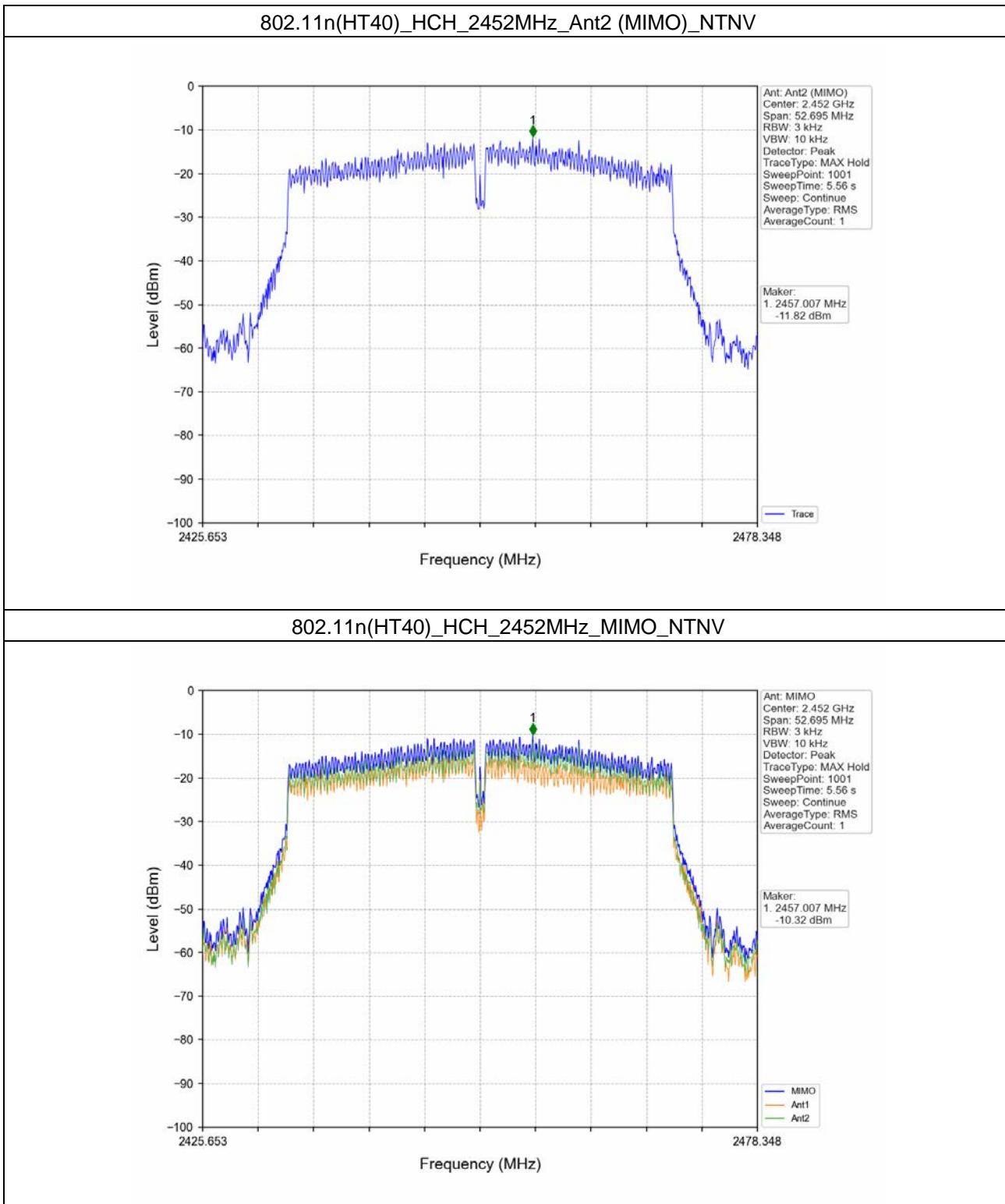
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 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	5.23	/	/
					2	5.44	/	/
		2437	/	/	1	4.57	/	/
					2	5.69	/	/
		2462	/	/	1	5.31	/	/
					2	6.47	/	/
		2412	/	/	1	2.60	/	/
					2	3.28	/	/
802.11g	SISO	2437	/	/	1	2.09	/	/
					2	3.16	/	/
		2462	/	/	1	3.75	/	/
					2	4.55	/	/
		2412	/	/	1	3.75	/	/
					2	3.21	/	/
		2437	/	/	1	3.25	/	/
					2	3.98	/	/
802.11n (HT20)	MIMO	2462	/	/	1	4.15	/	/
					2	5.09	/	/
		2422	/	/	1	1.73	/	/
					2	2.63	/	/
		2437	/	/	1	0.78	/	/
					2	1.49	/	/
		2452	/	/	1	2.26	/	/
					2	4.27	/	/

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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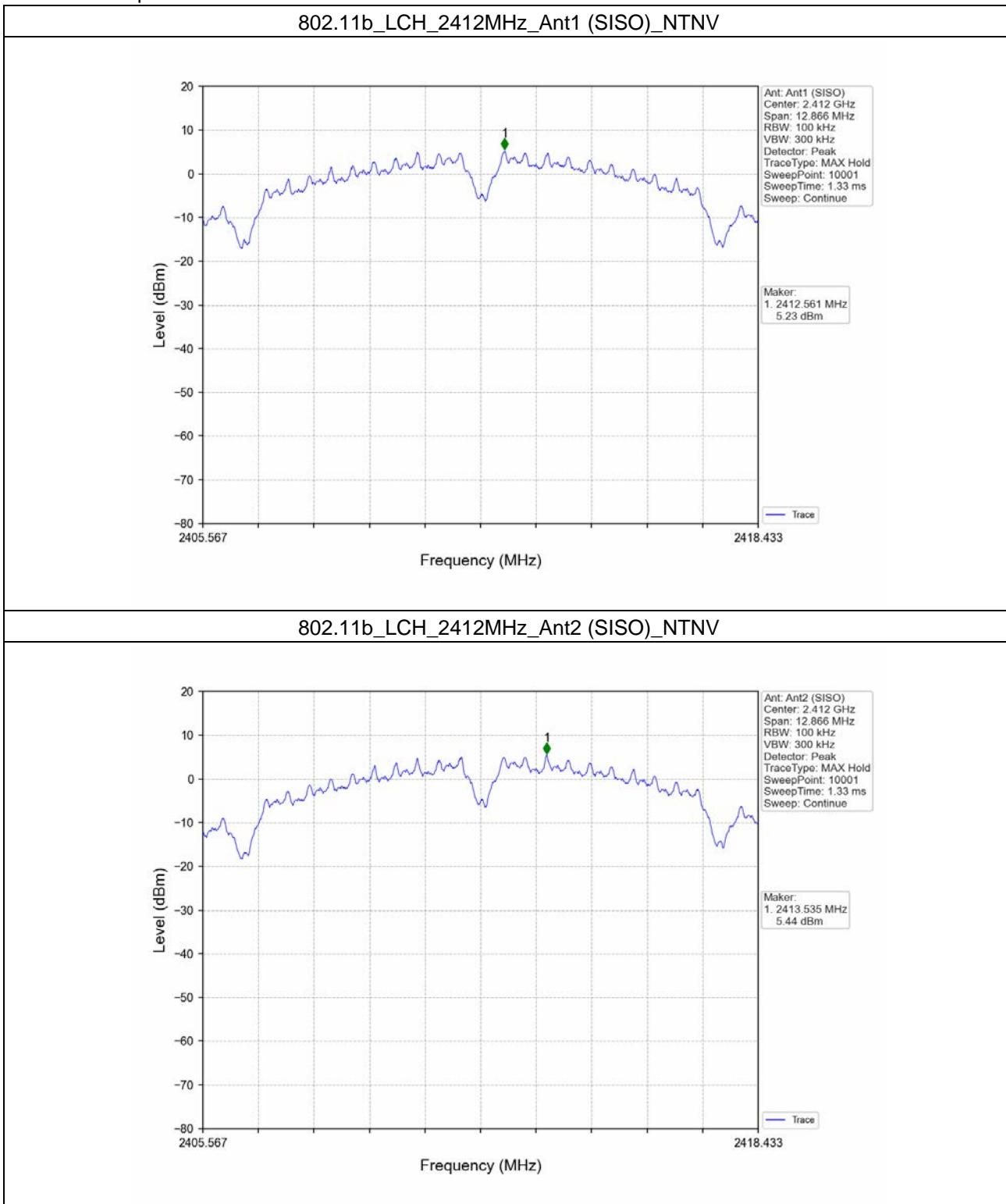
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## 5.1.2 Test Graph



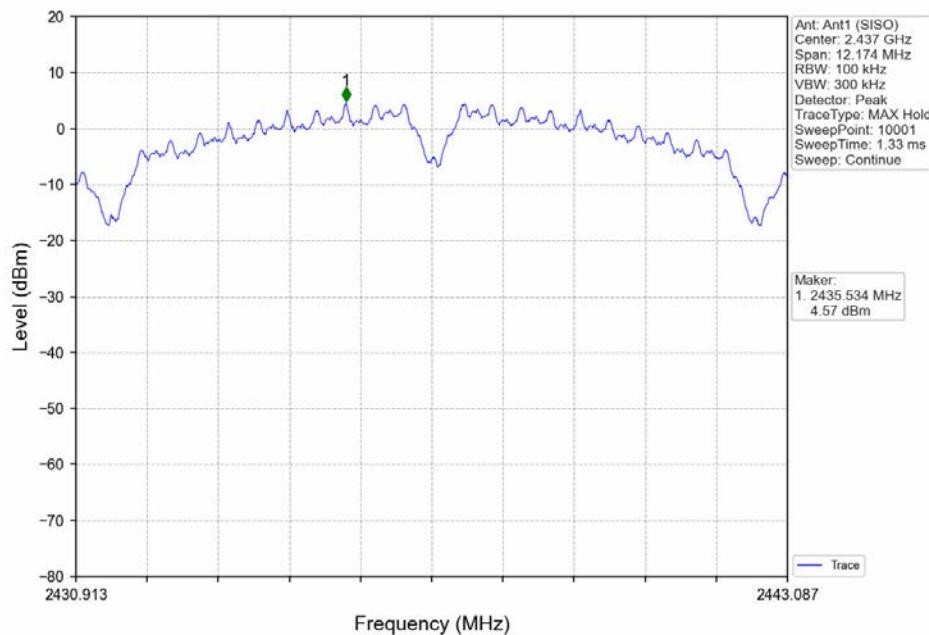
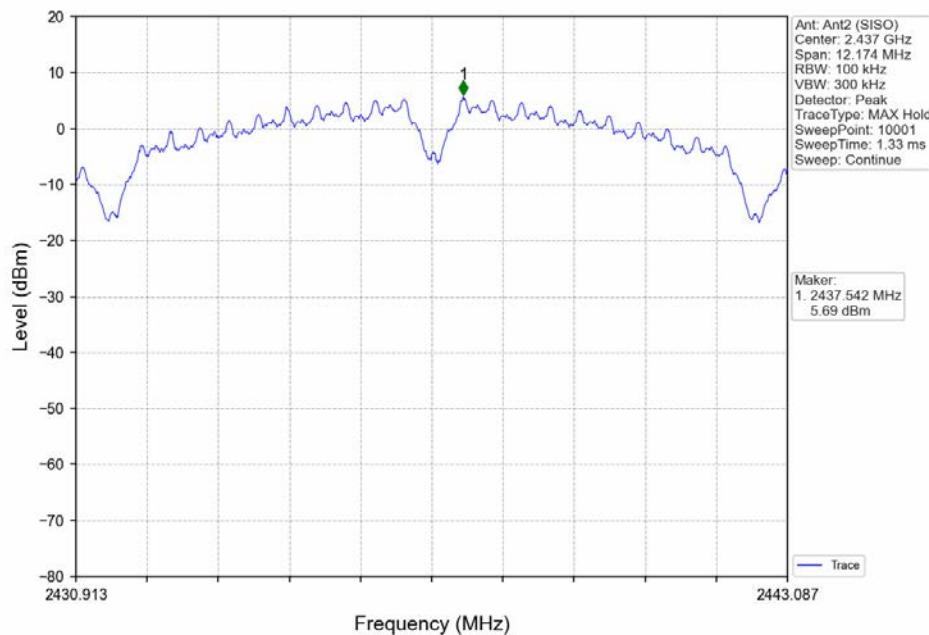
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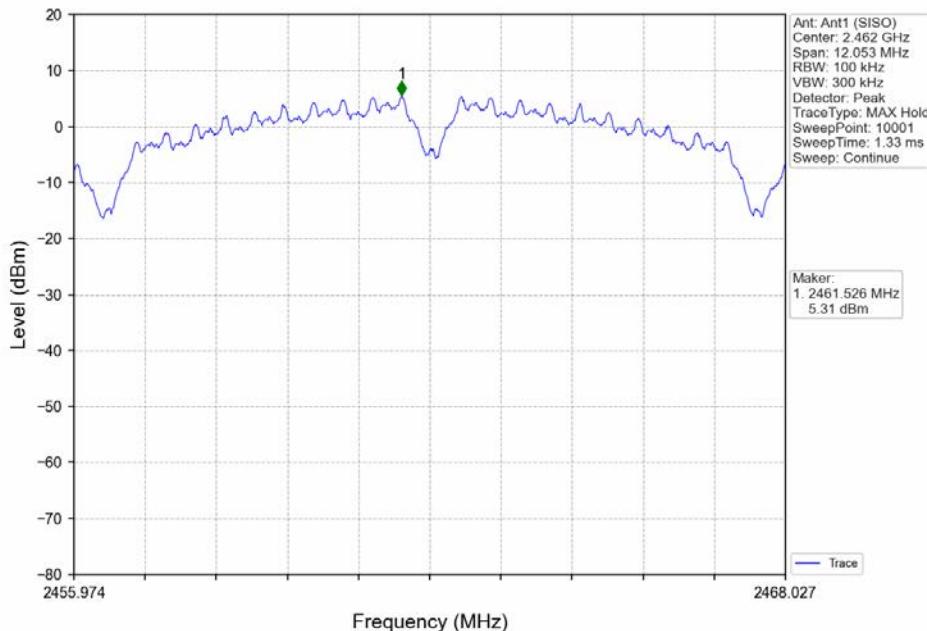
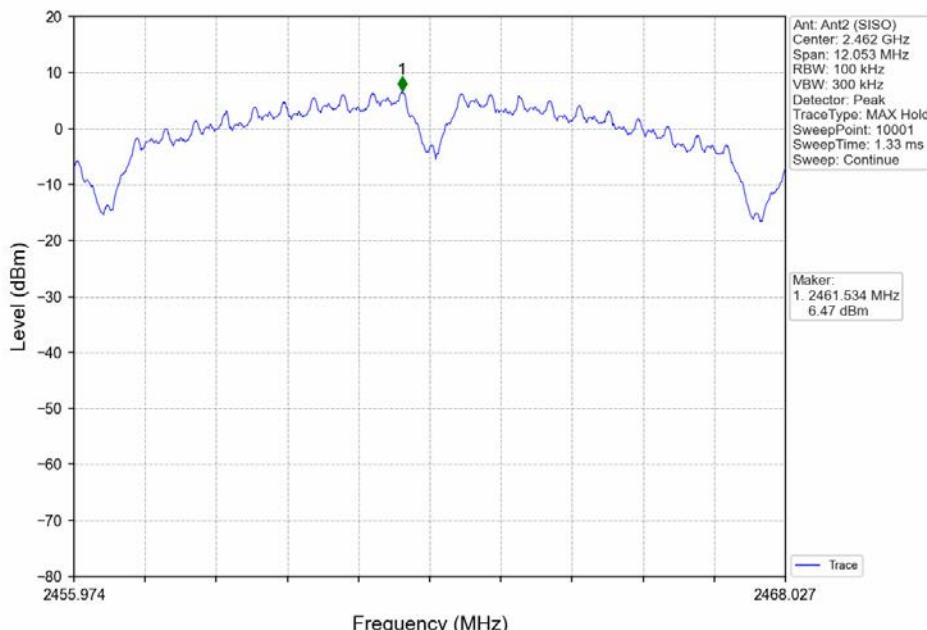
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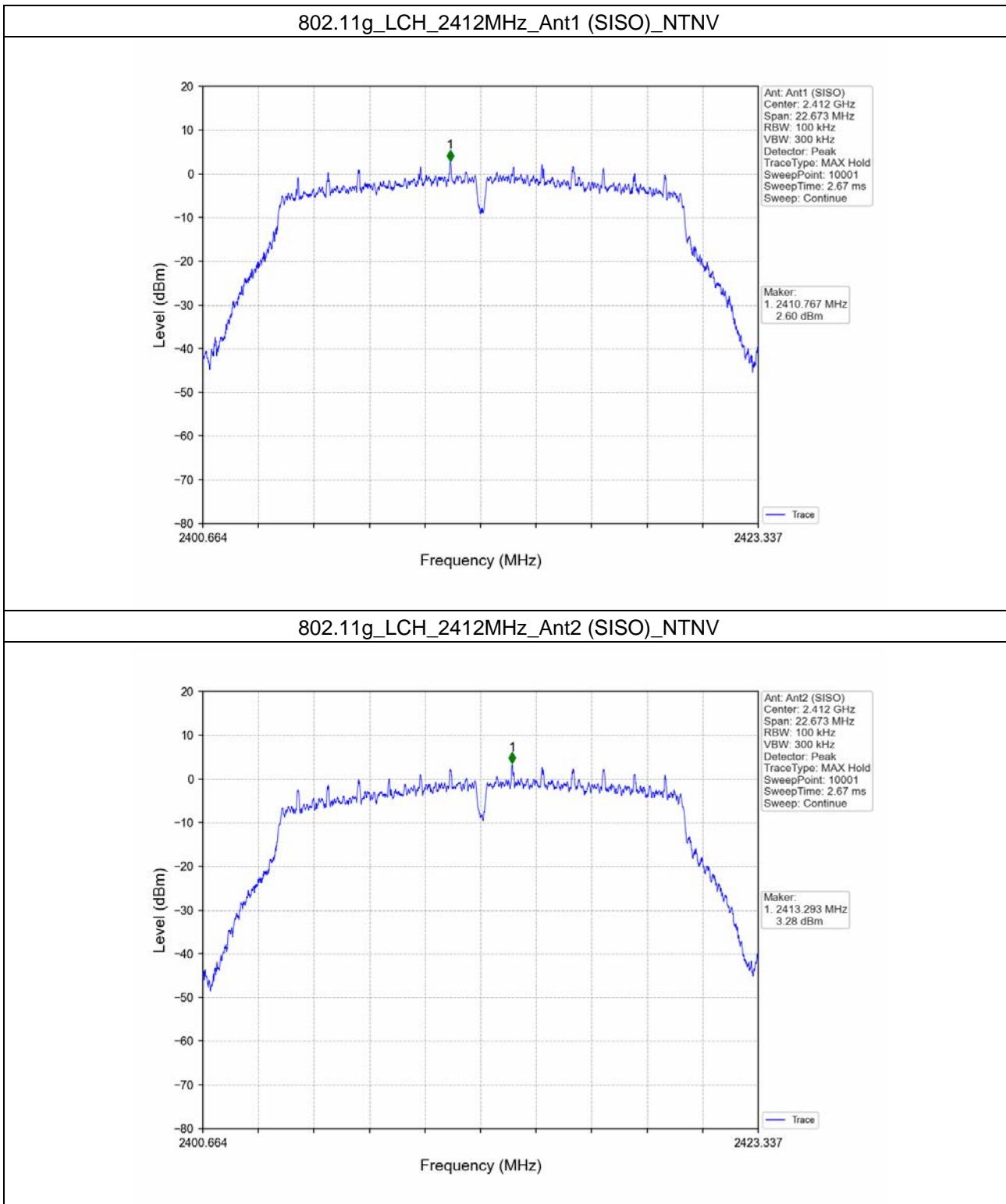
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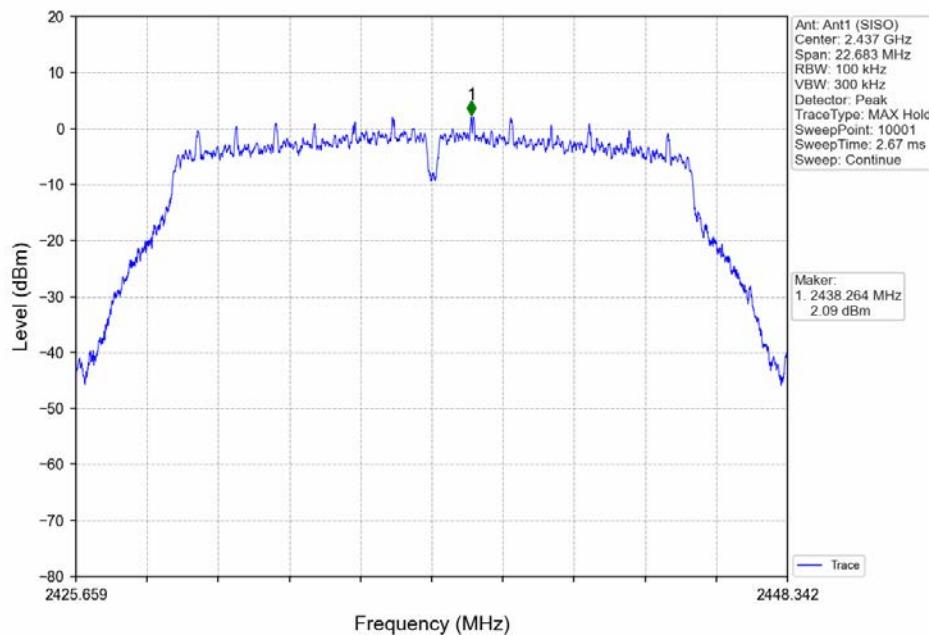
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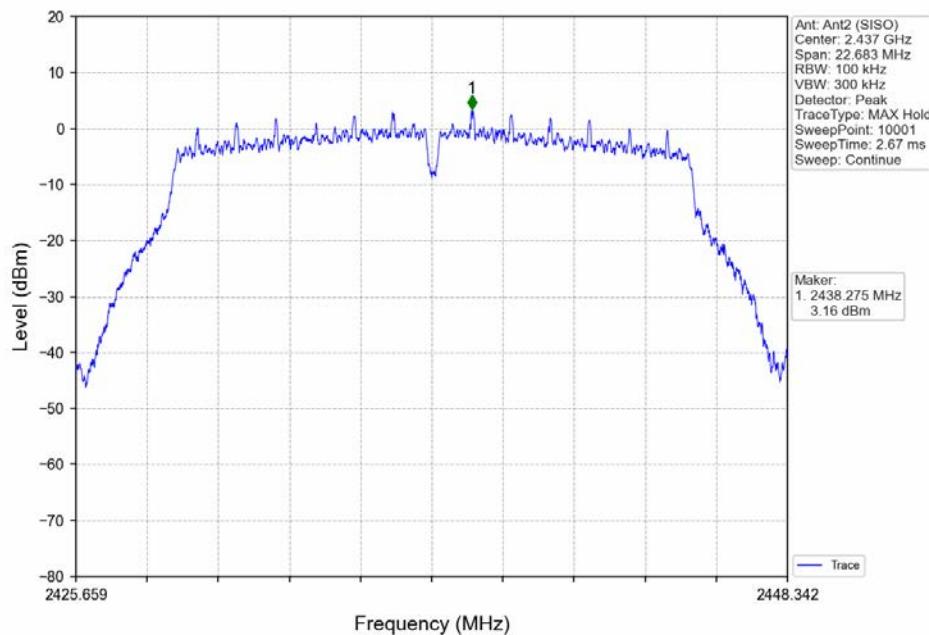
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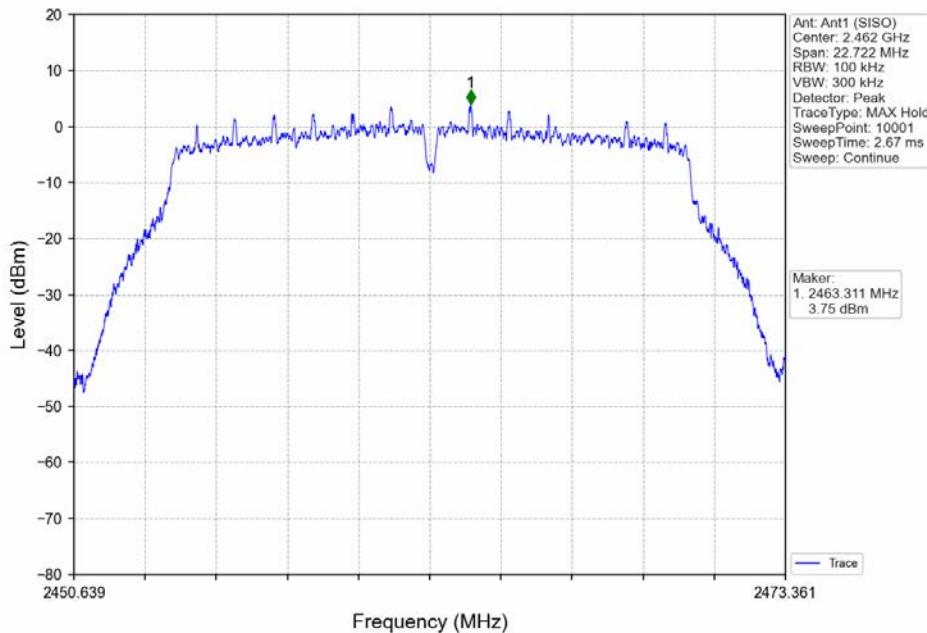
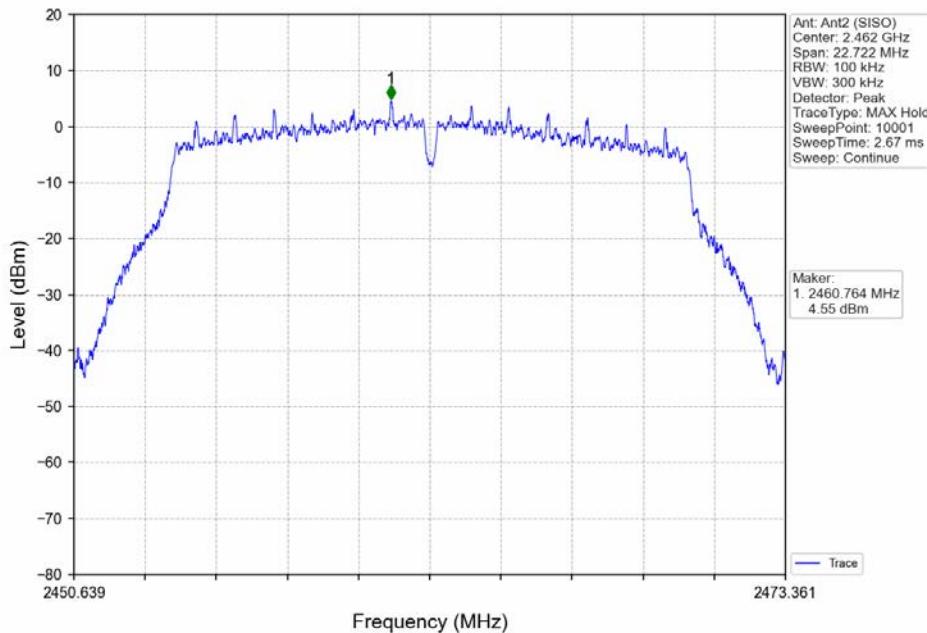
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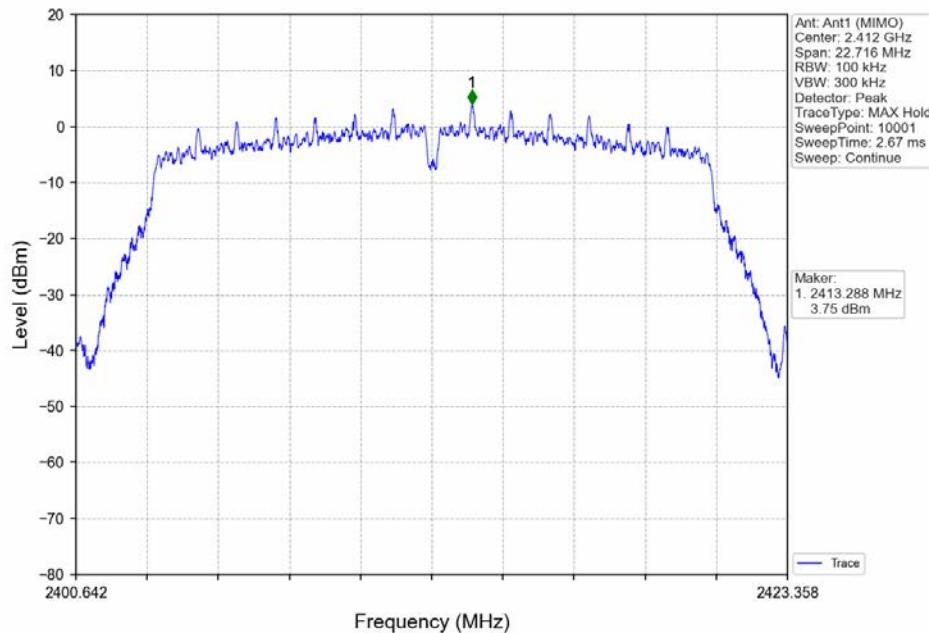
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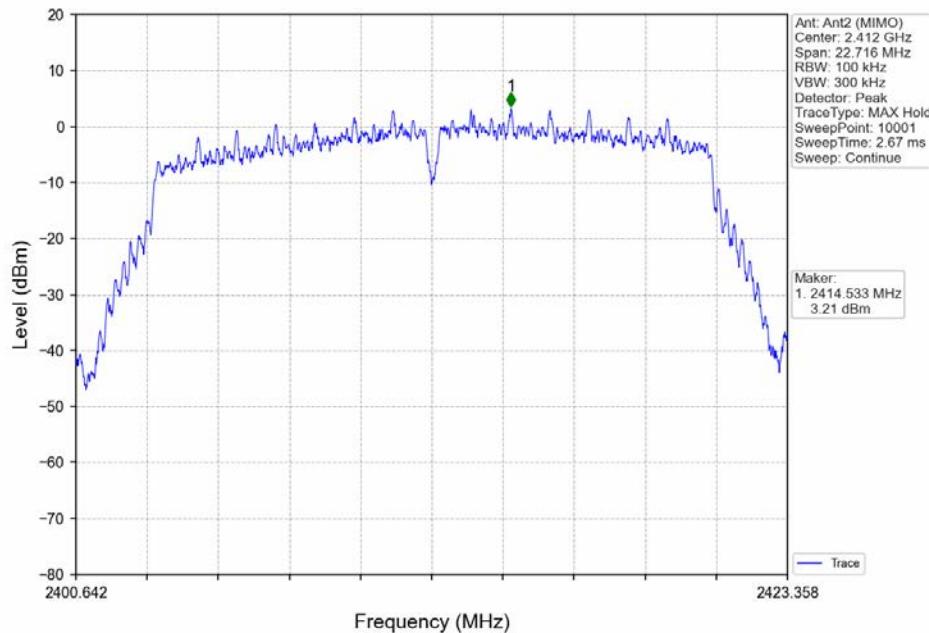
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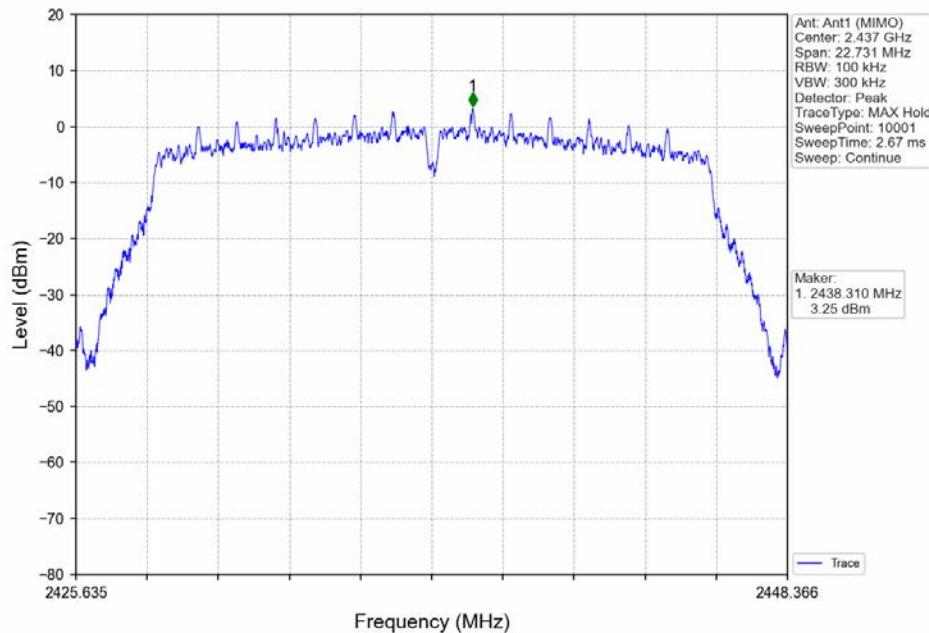
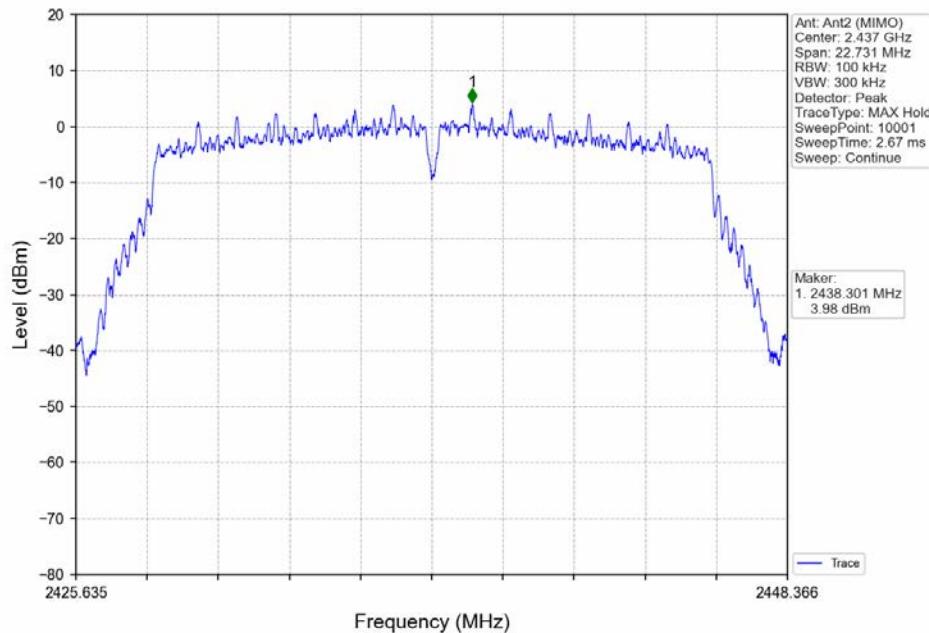
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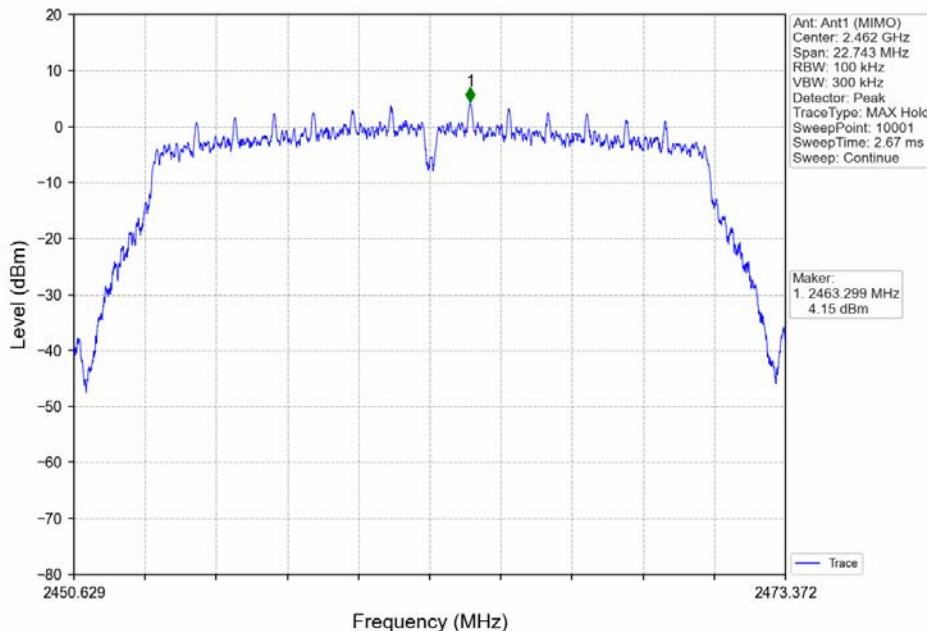
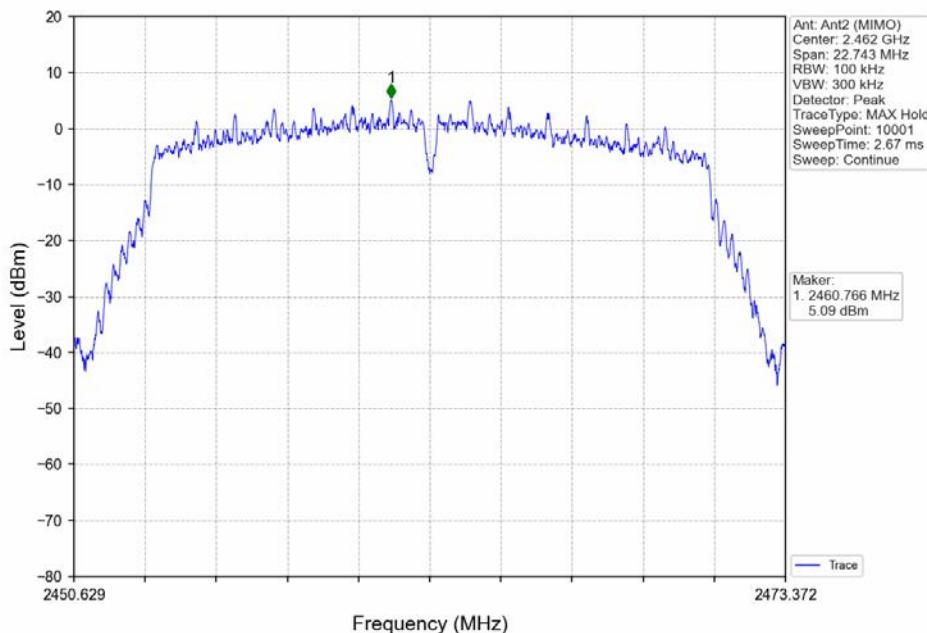


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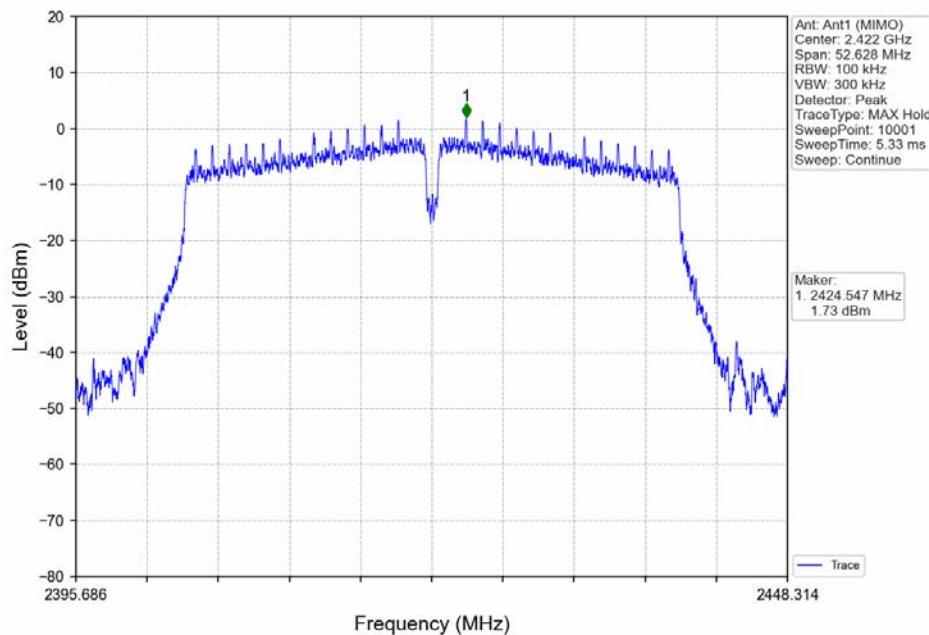
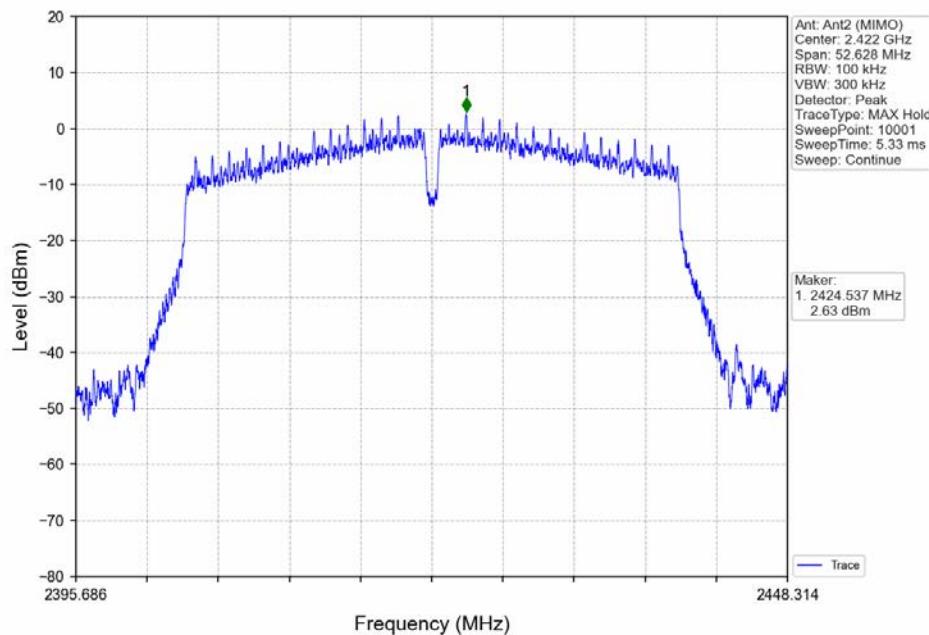
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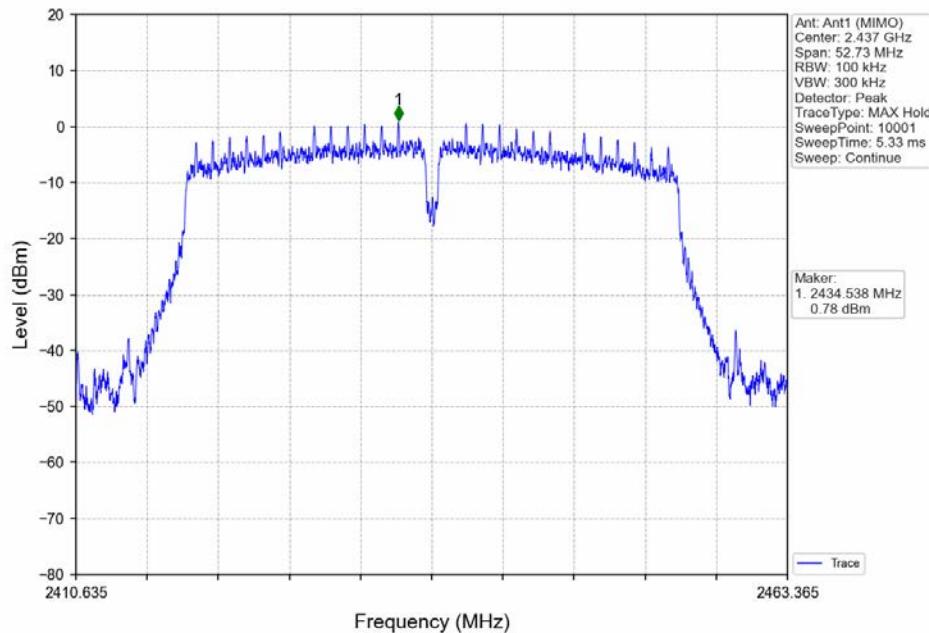
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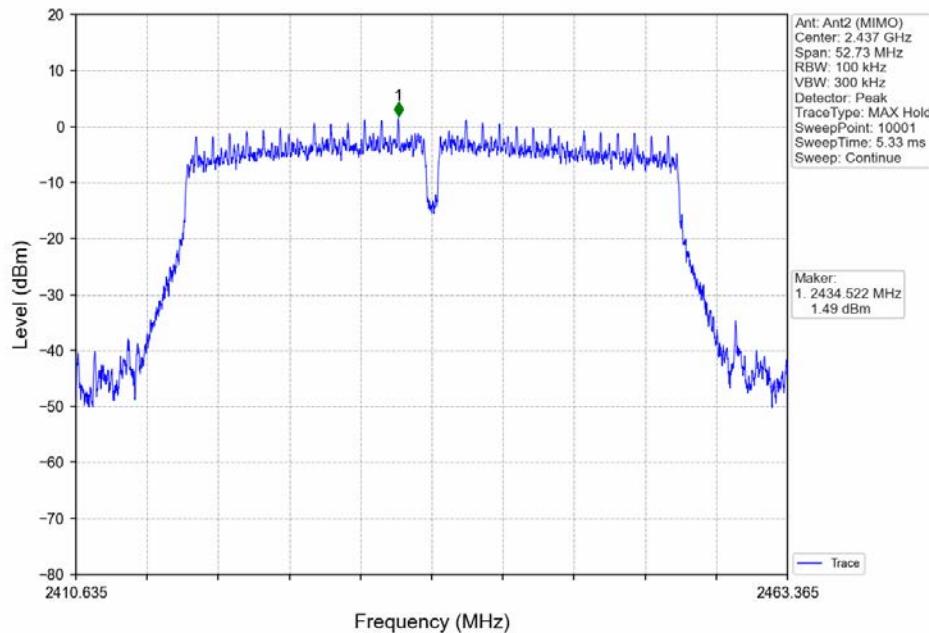
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## 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



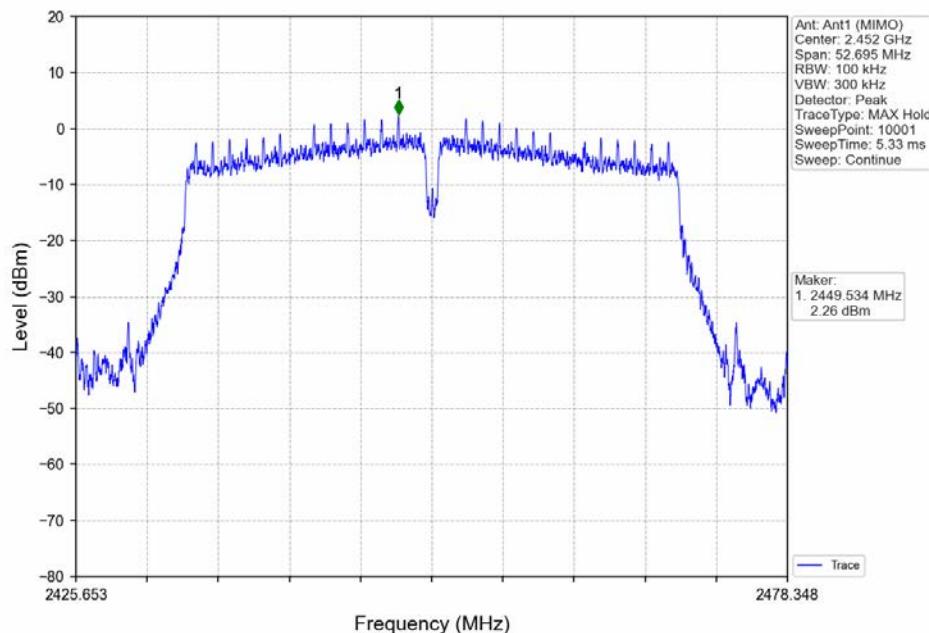
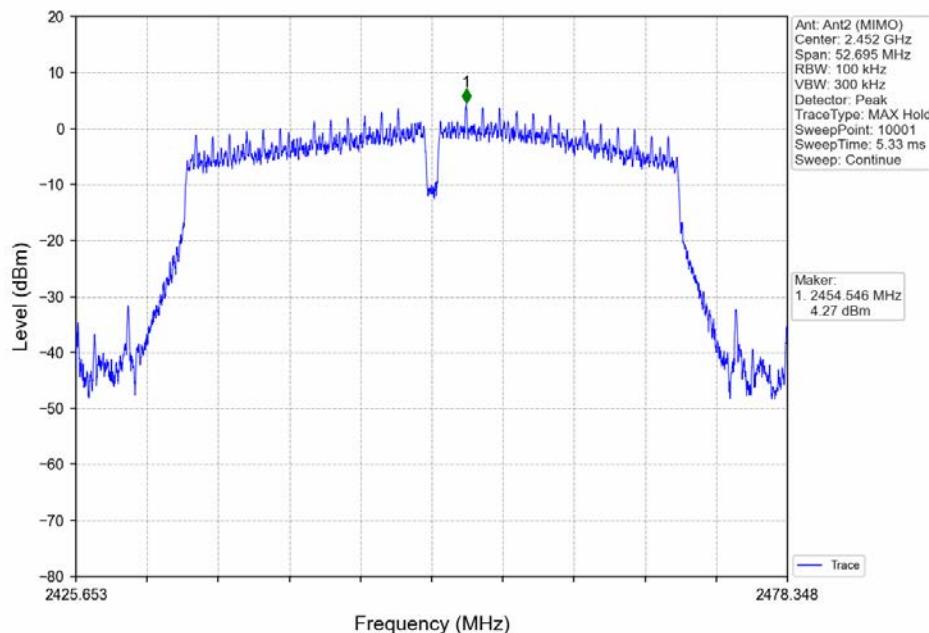
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## 5.2 CSE

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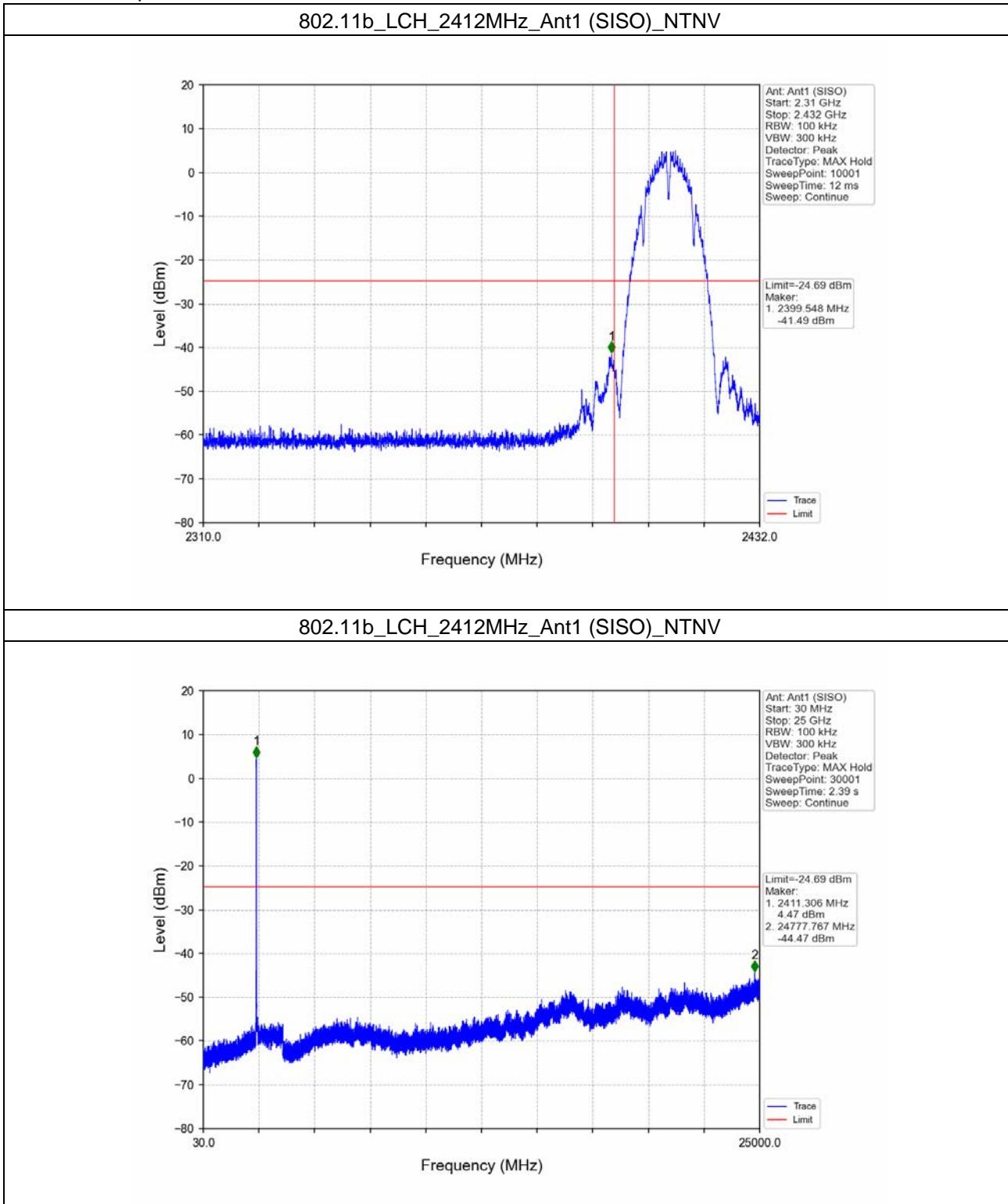
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## 5.2.2 Test Graph



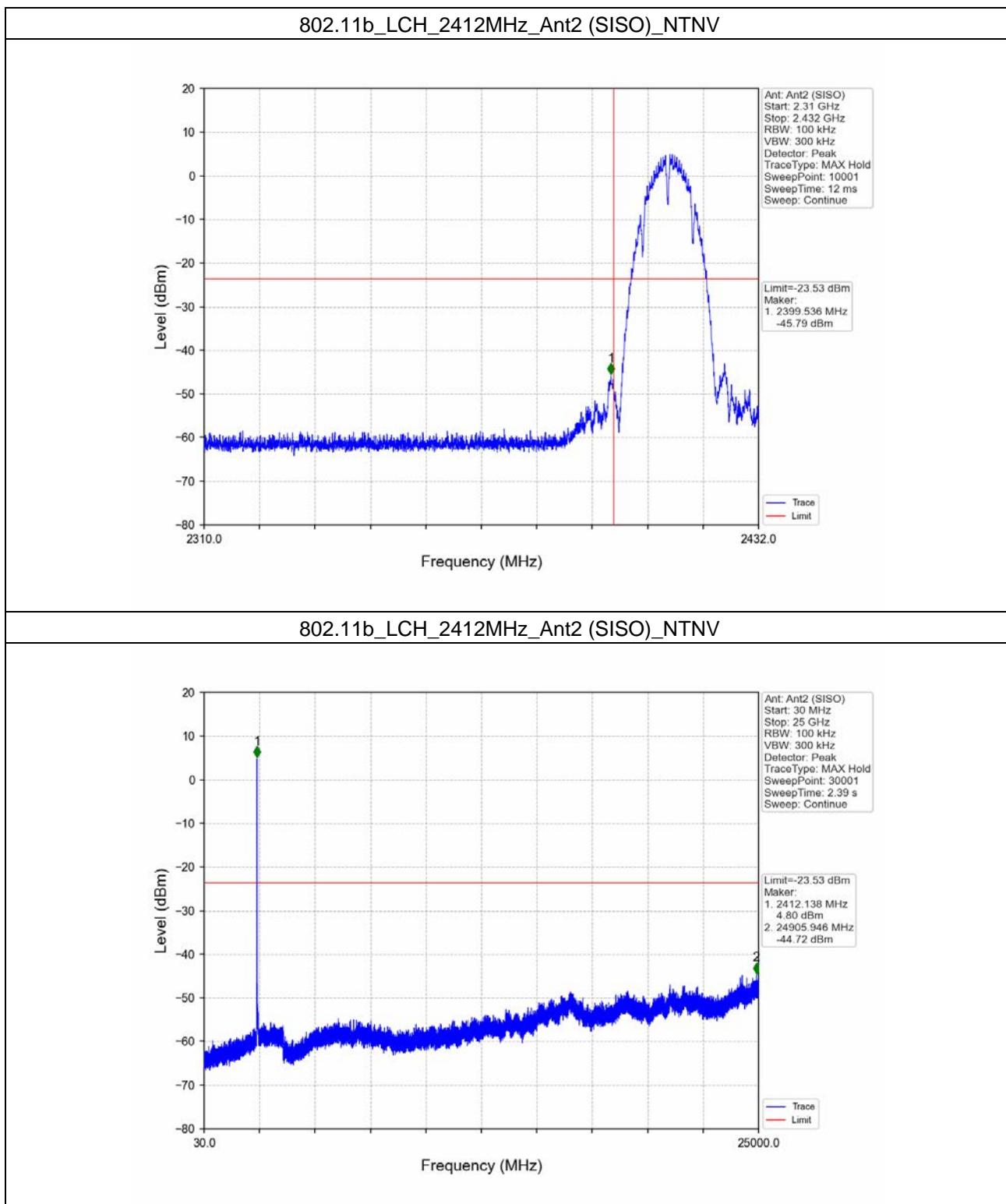
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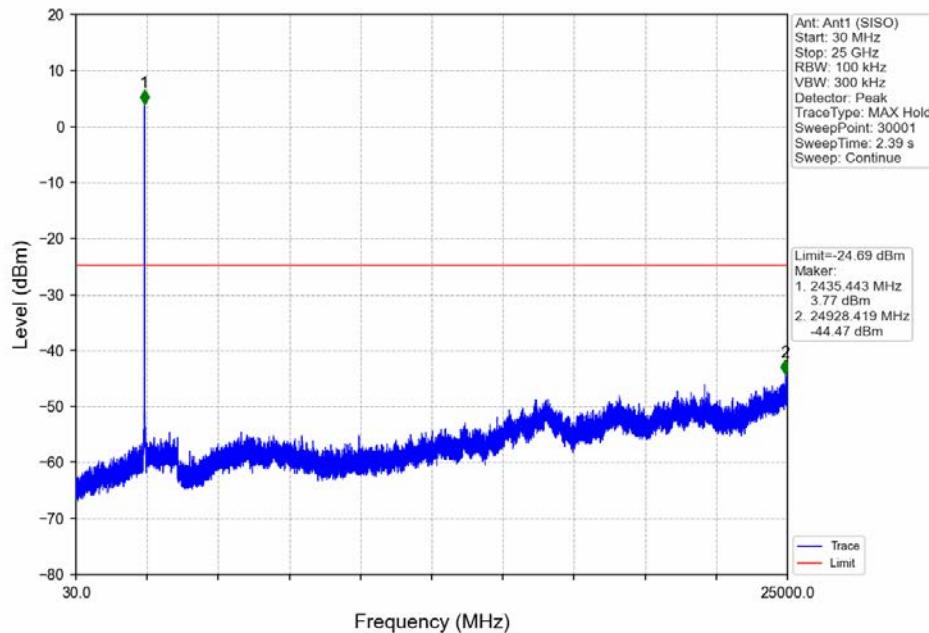
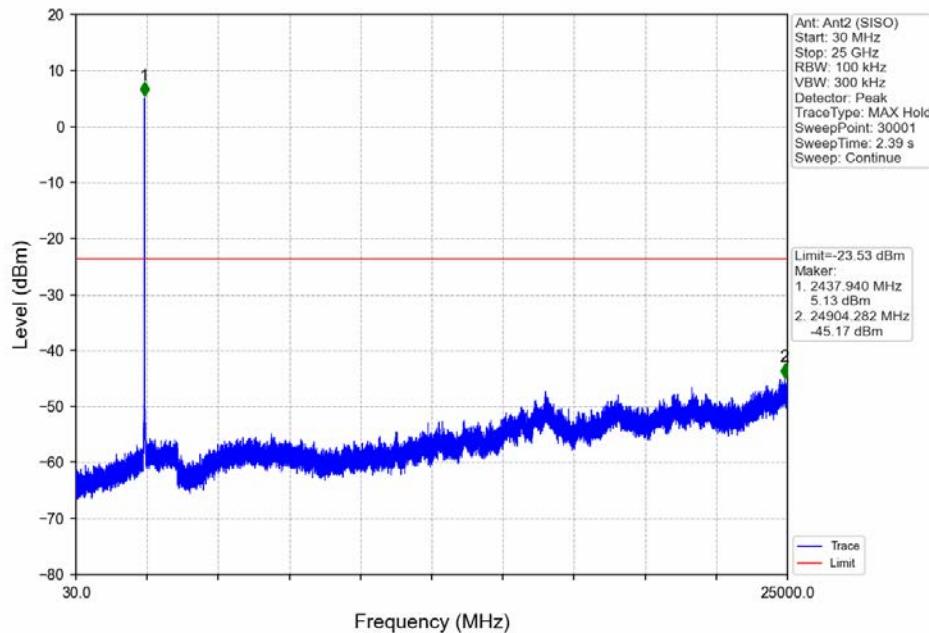


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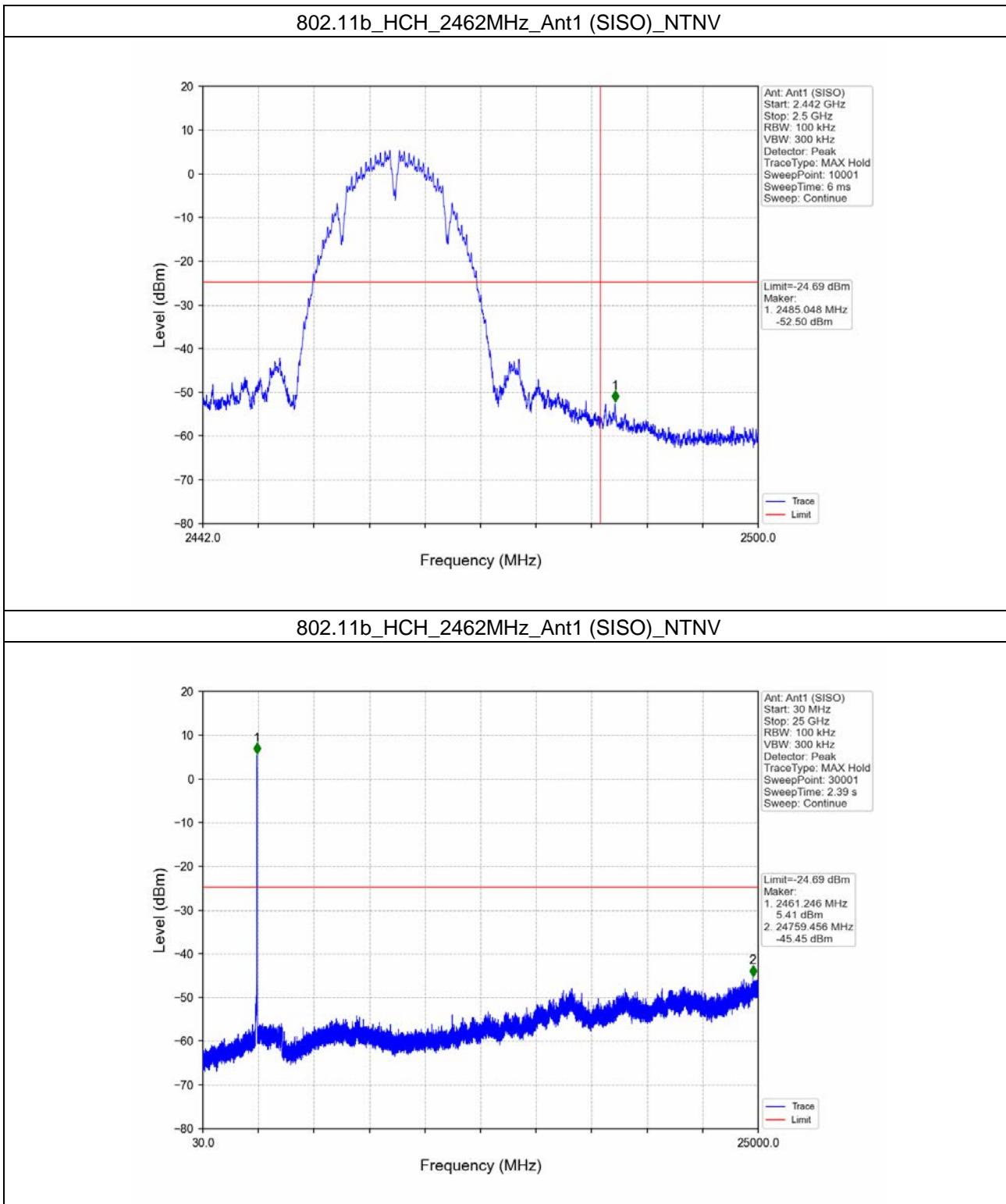
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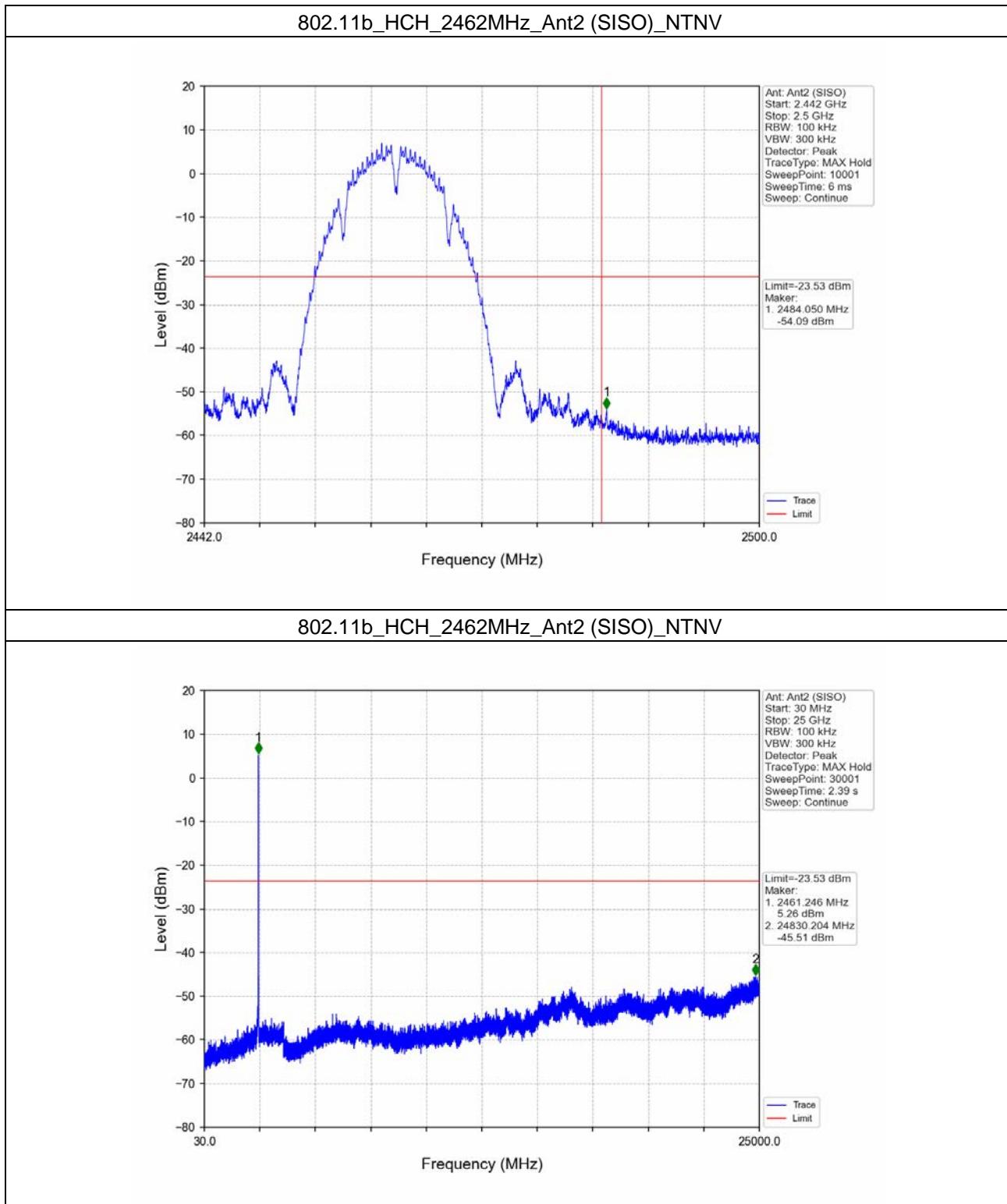
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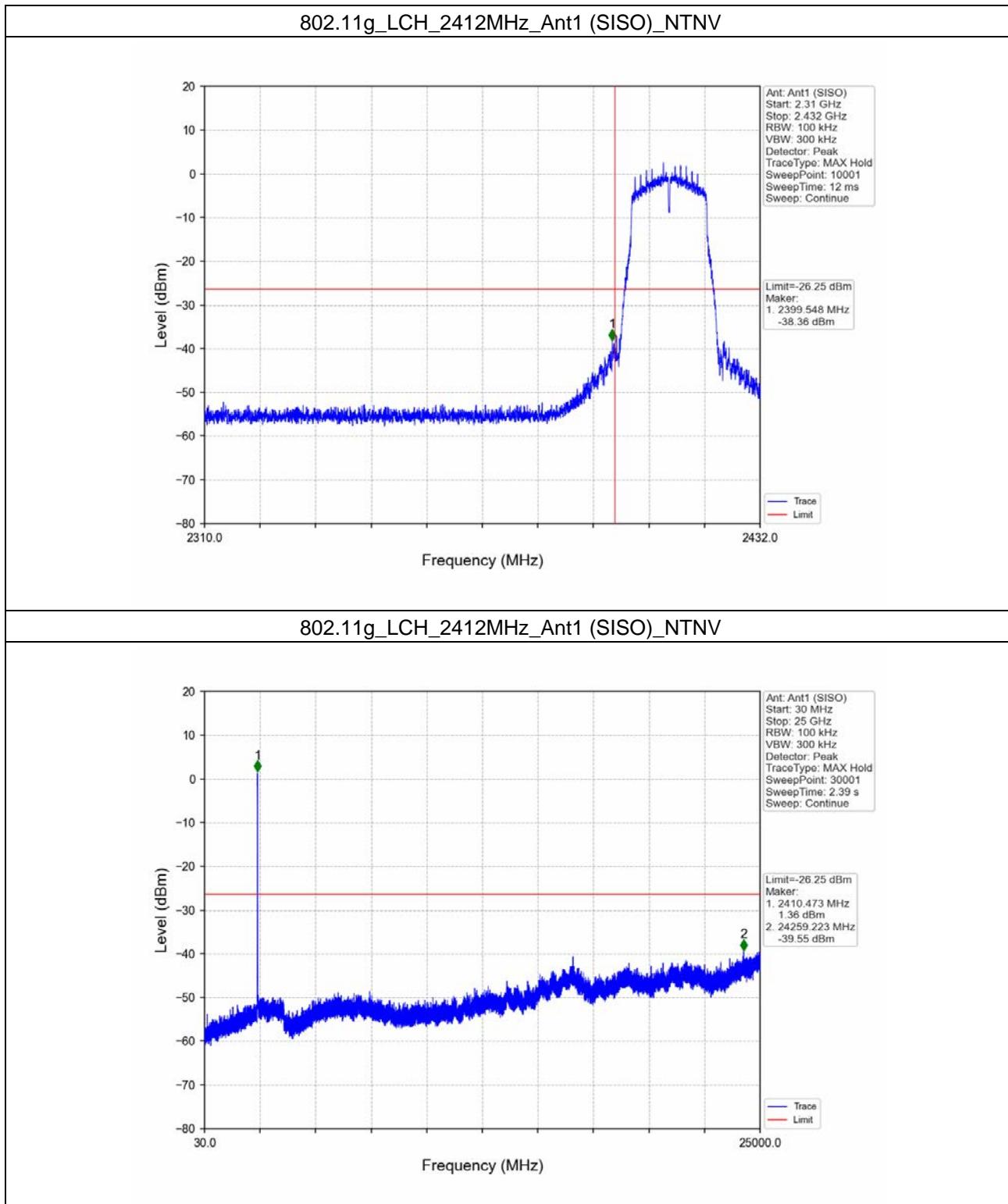
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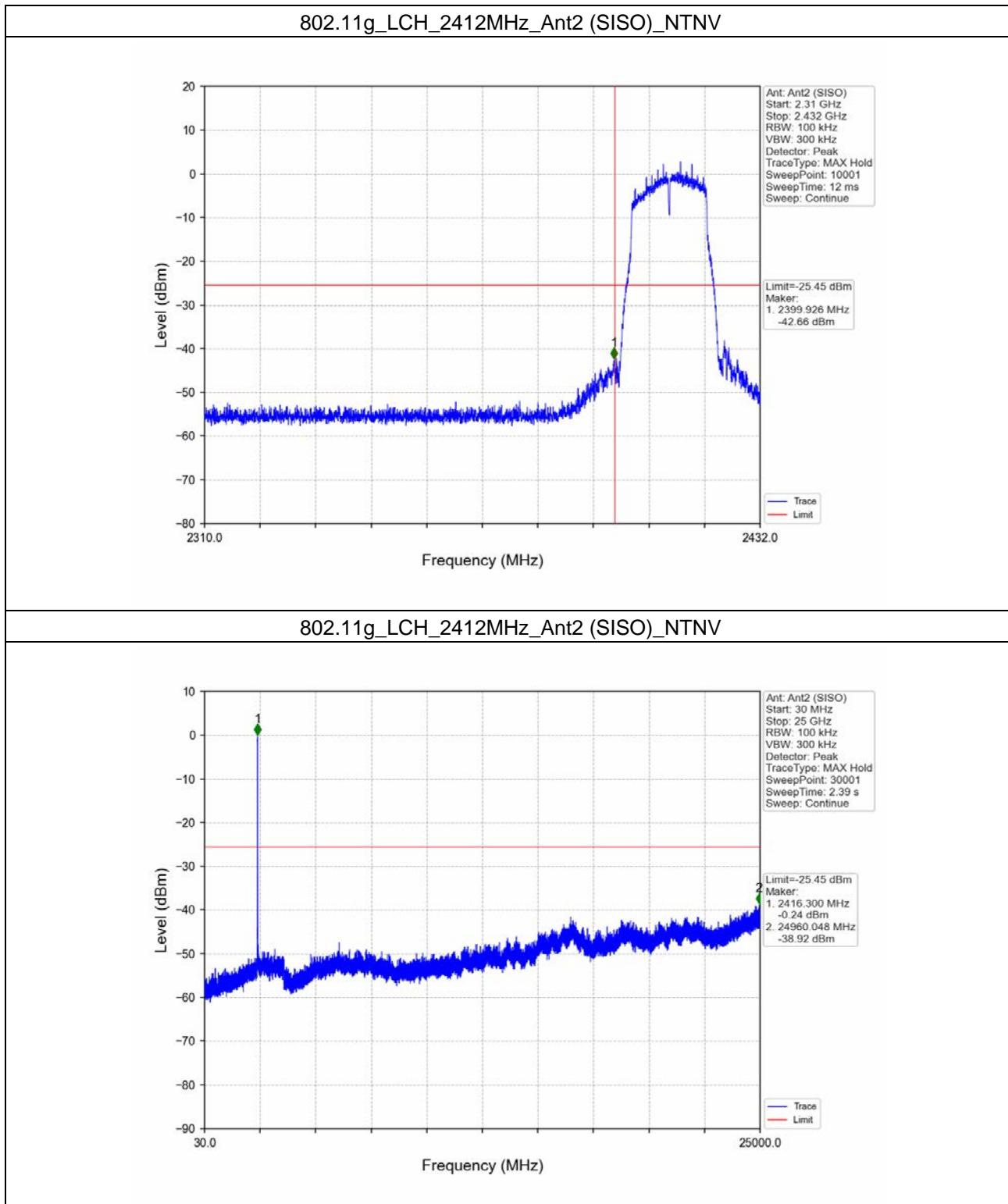
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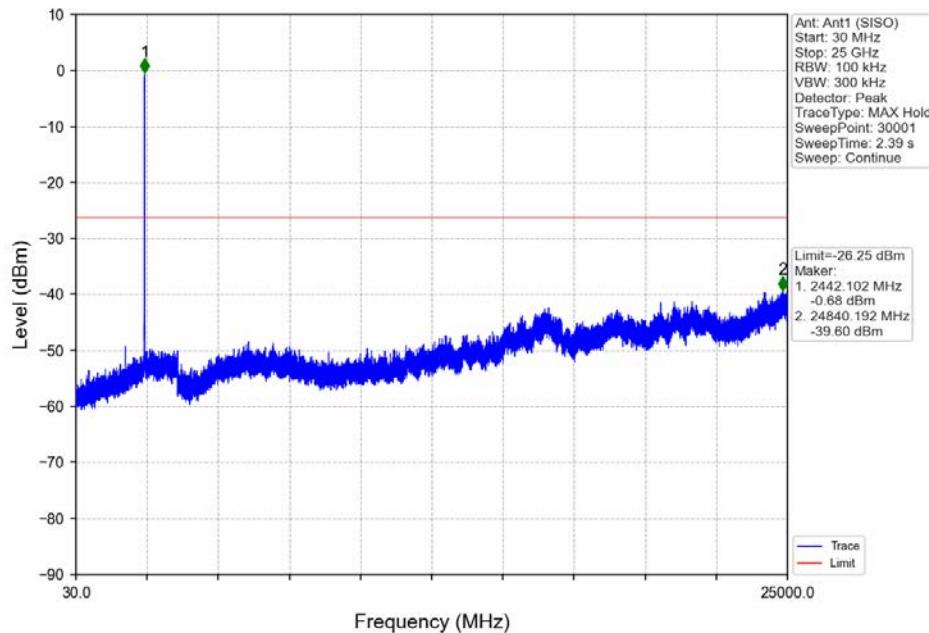
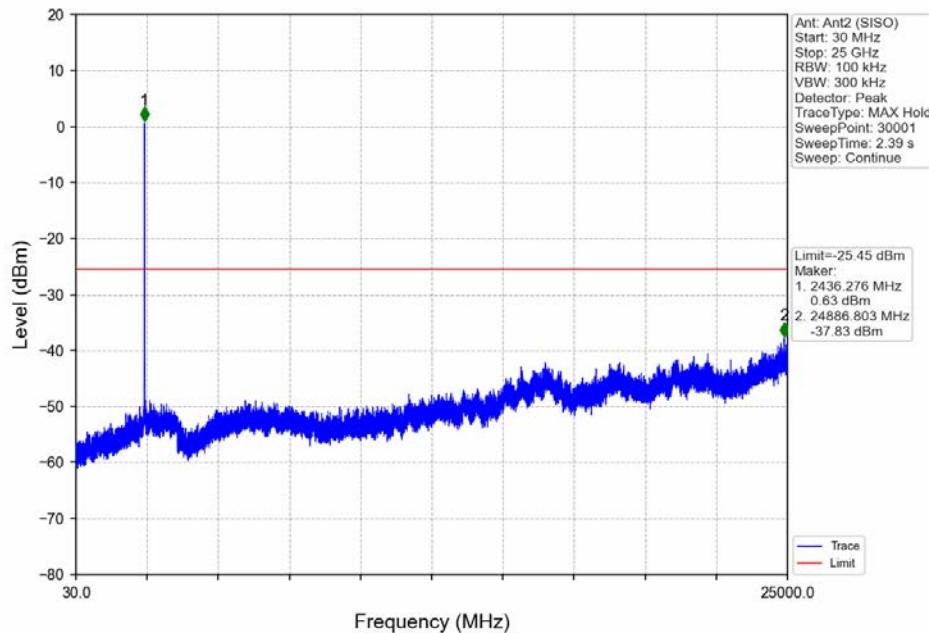
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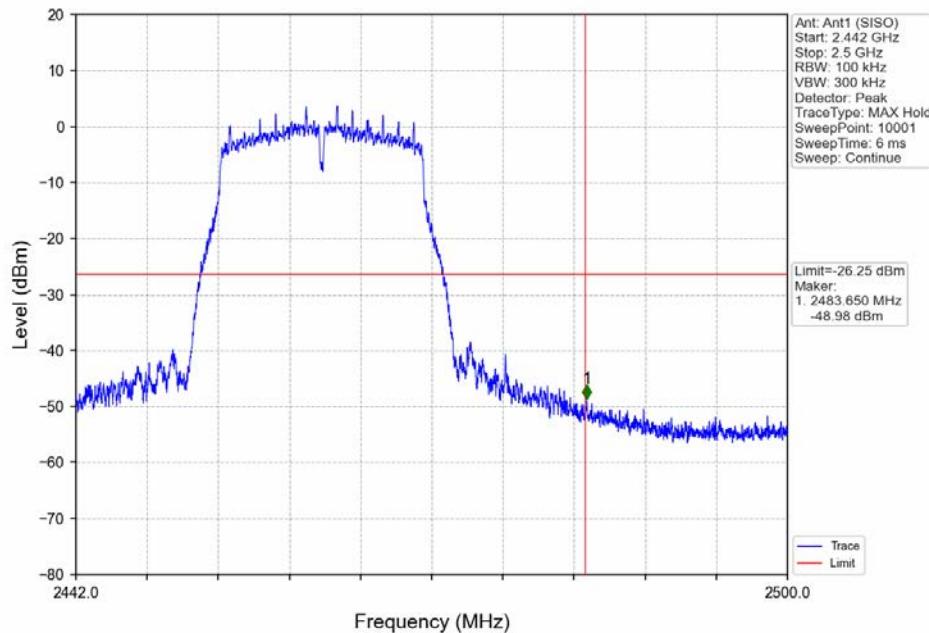
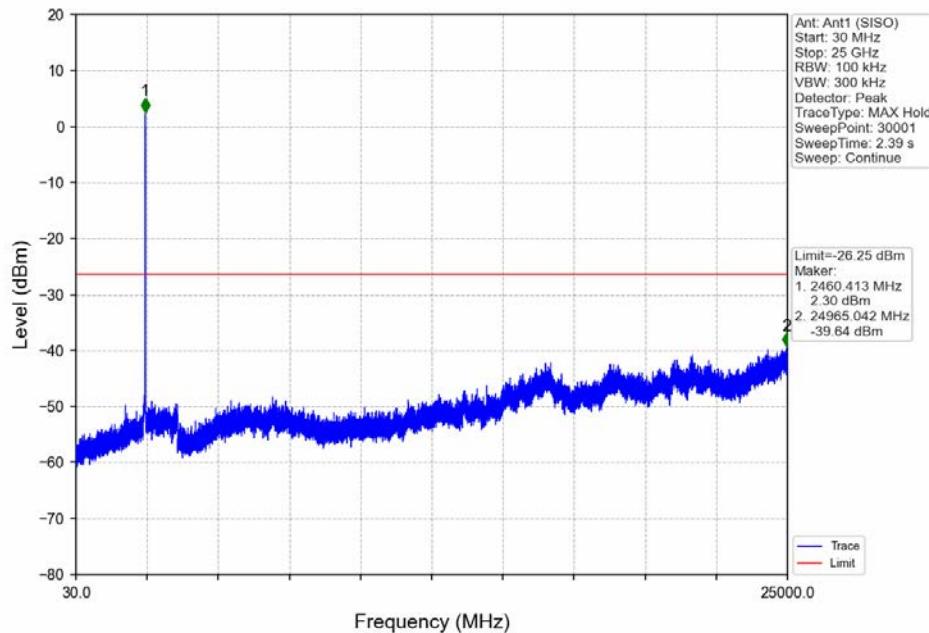
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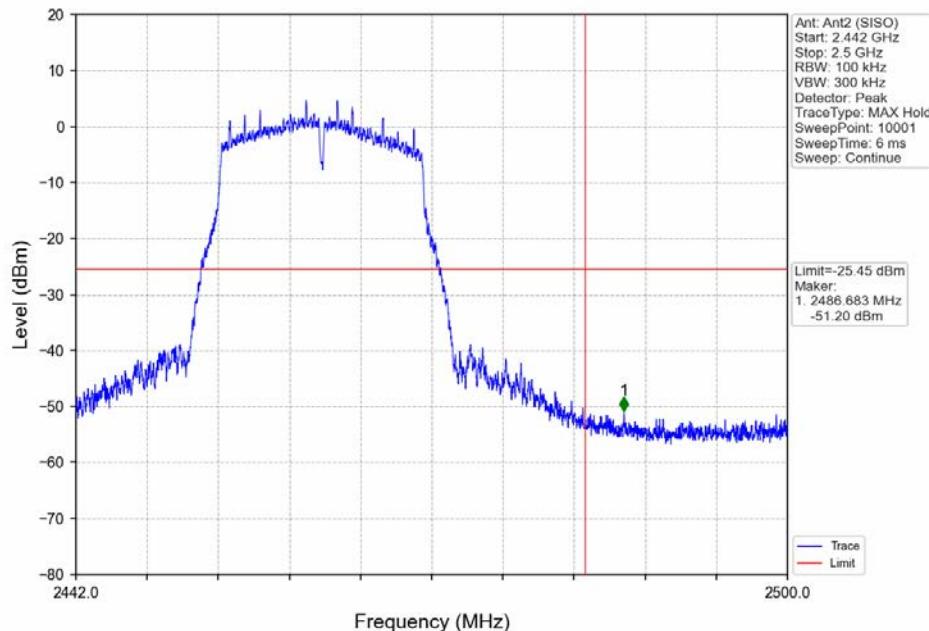
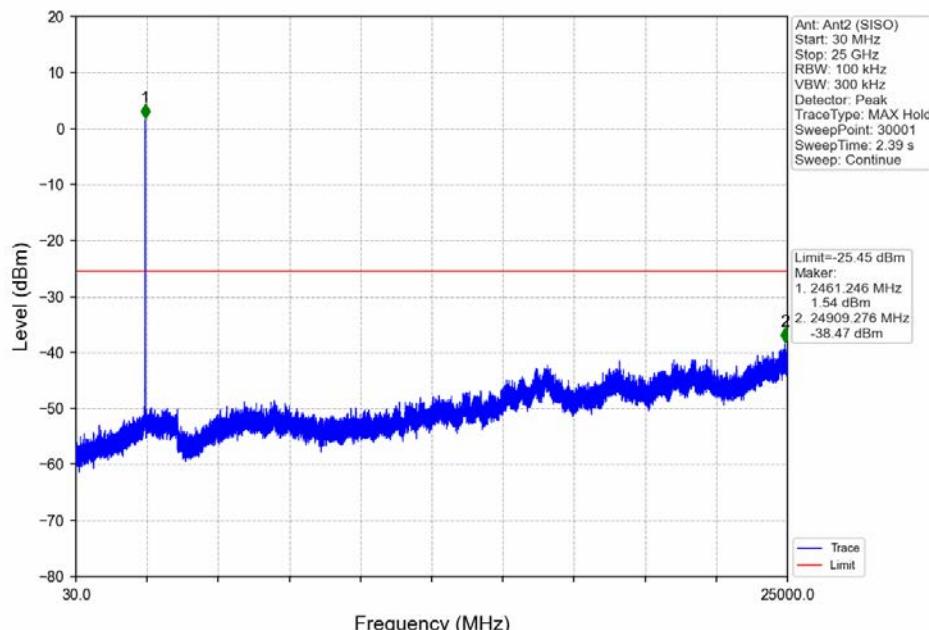
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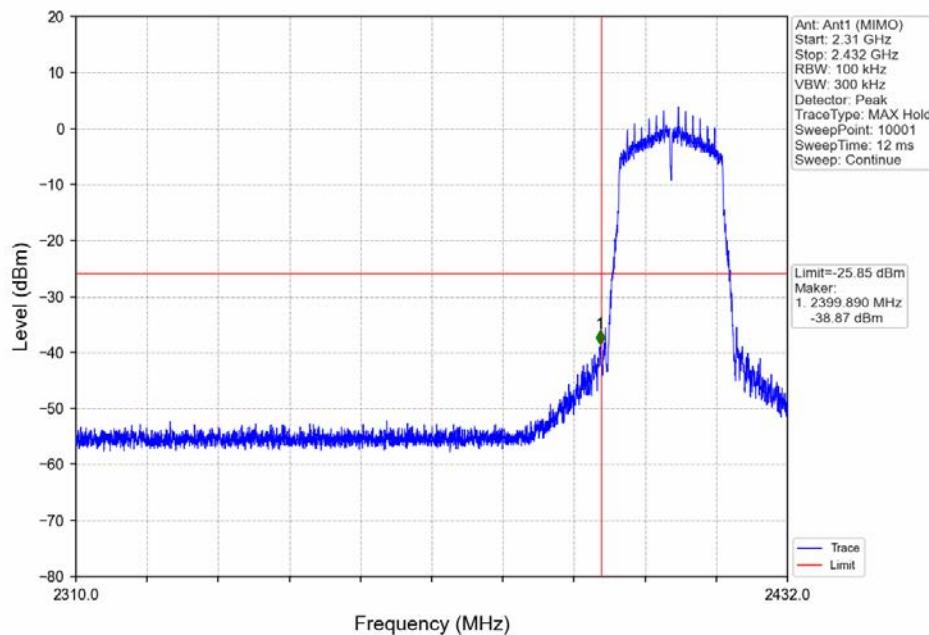
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**802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV****802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV**

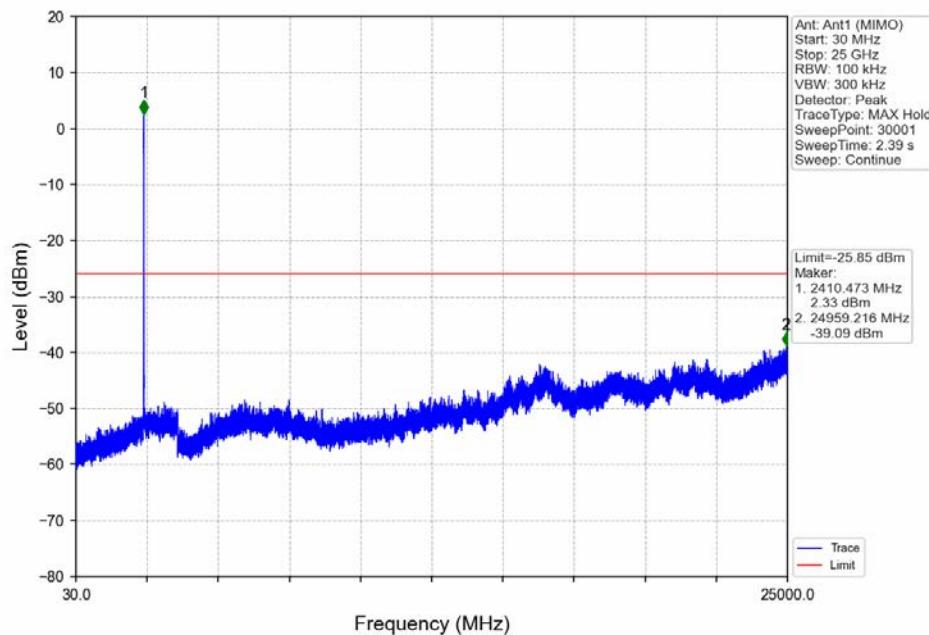
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## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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



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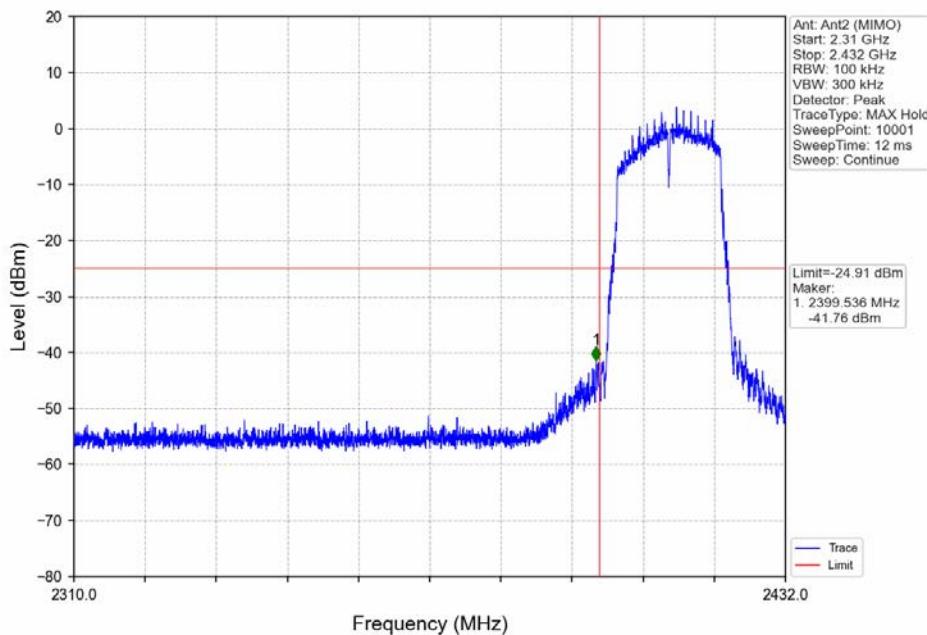
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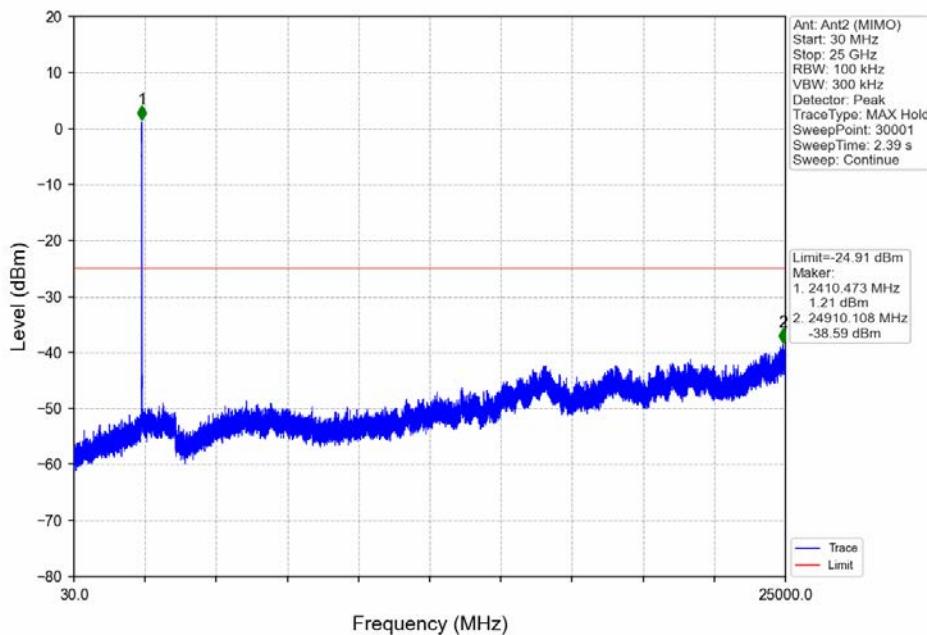
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



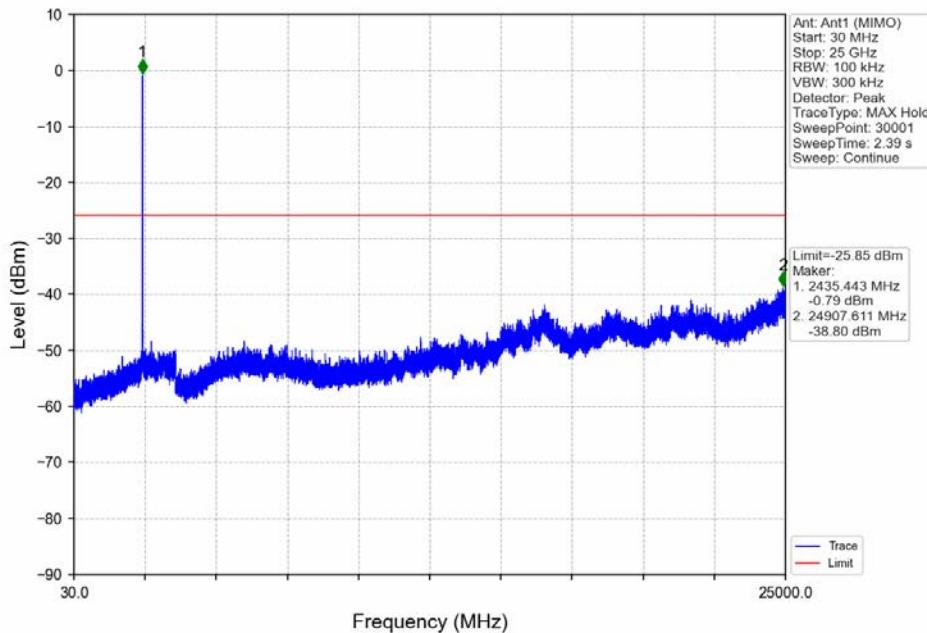
### 802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



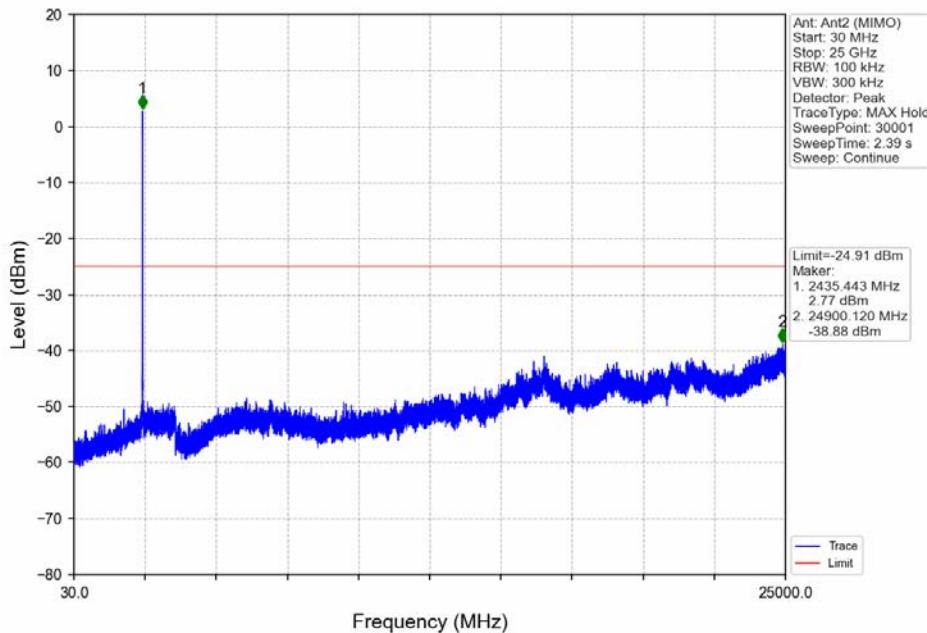
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## 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV

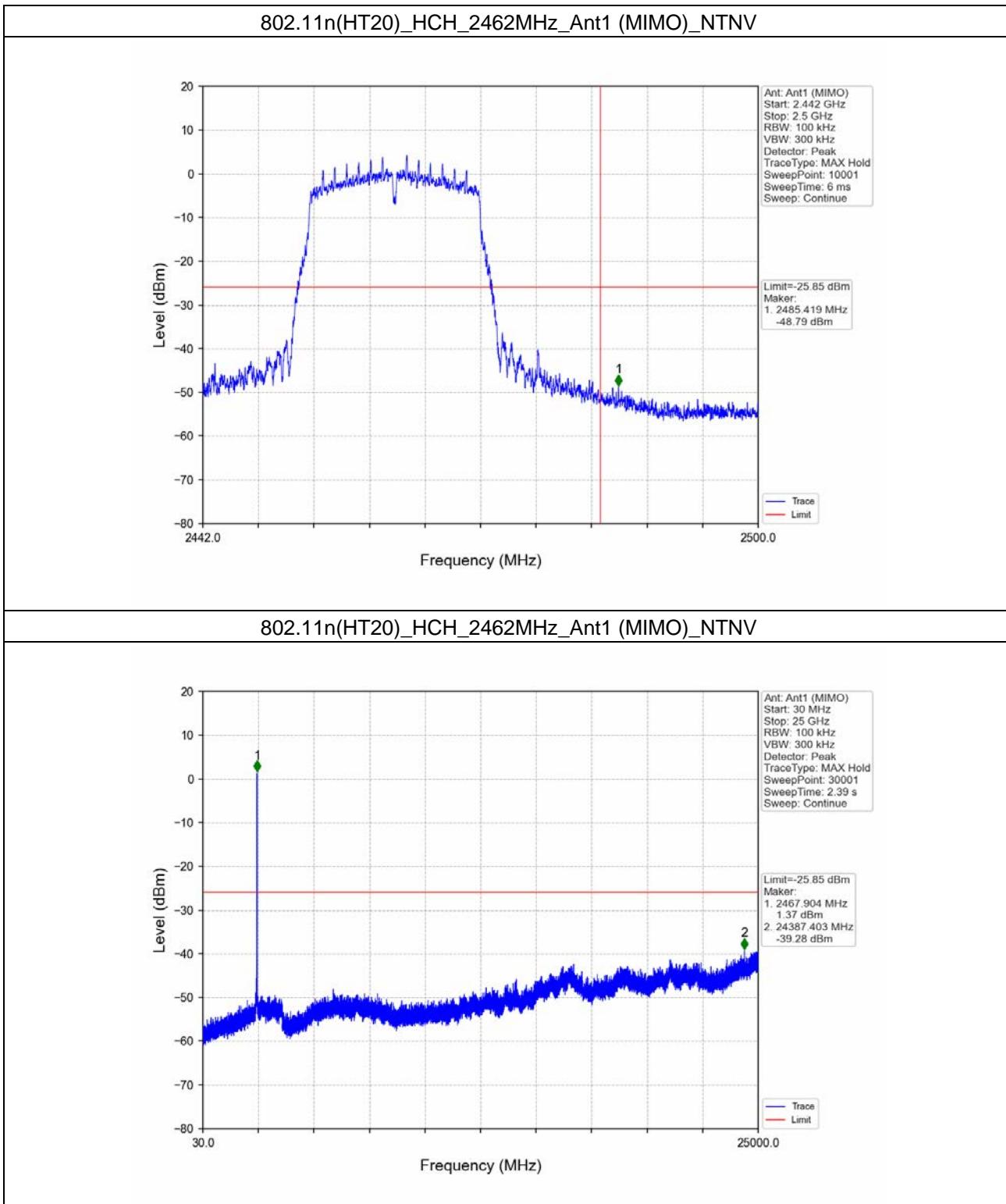


## 802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



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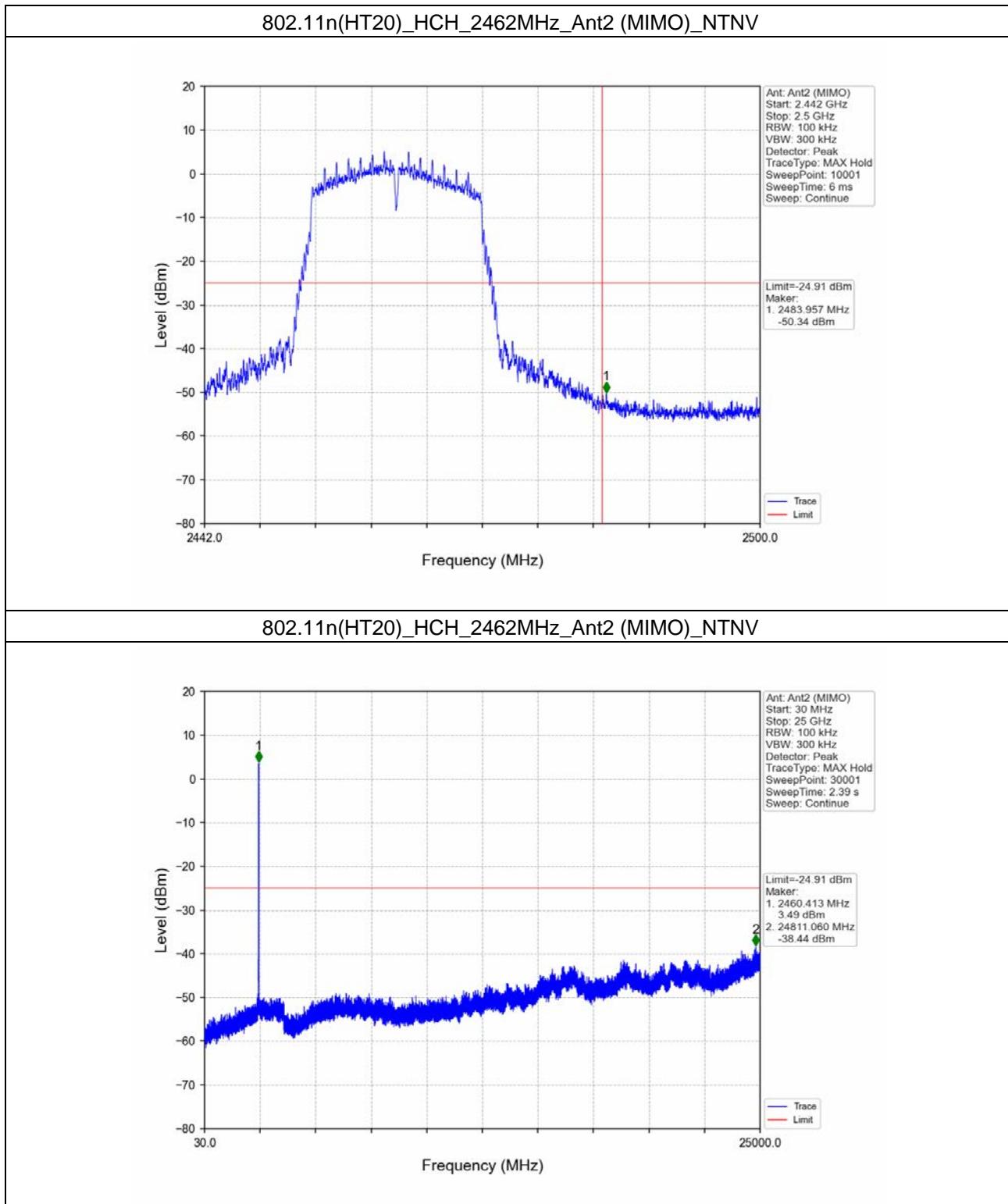
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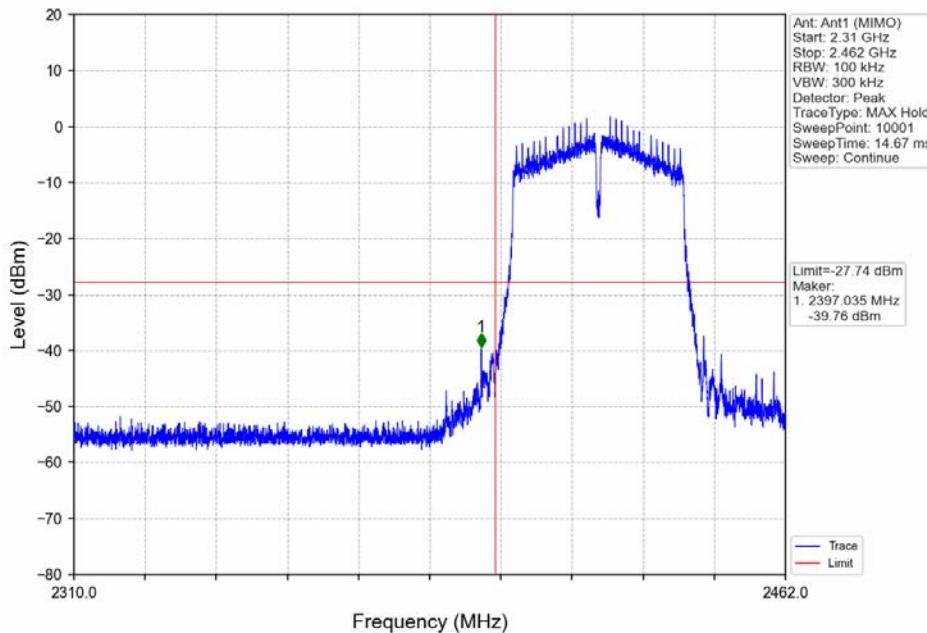
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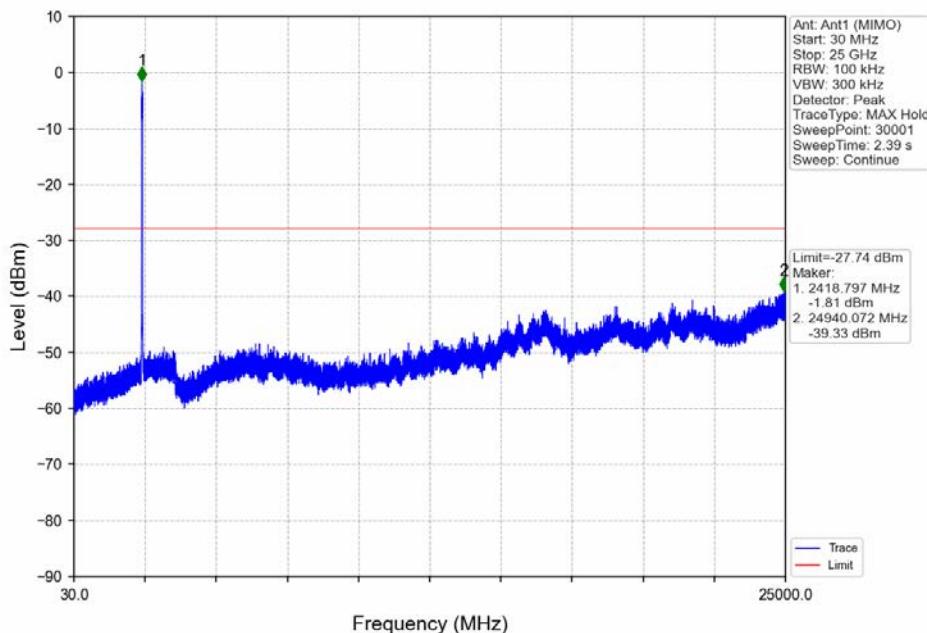
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### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV

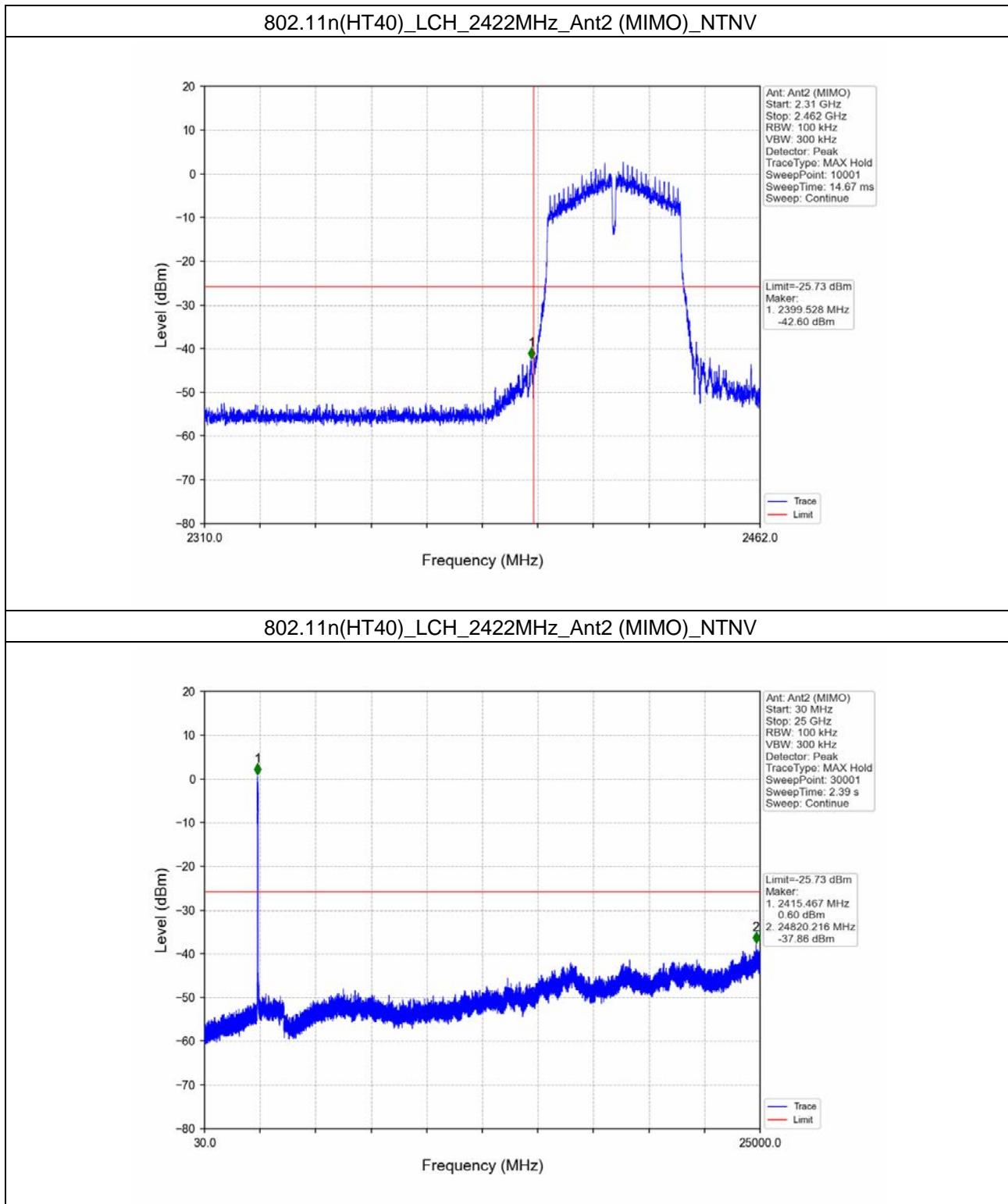


### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



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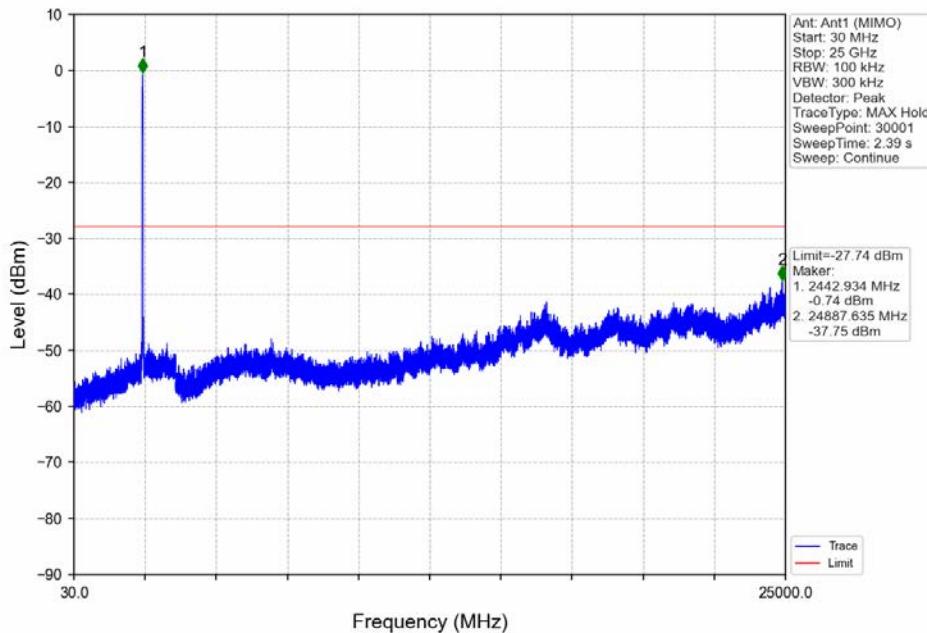
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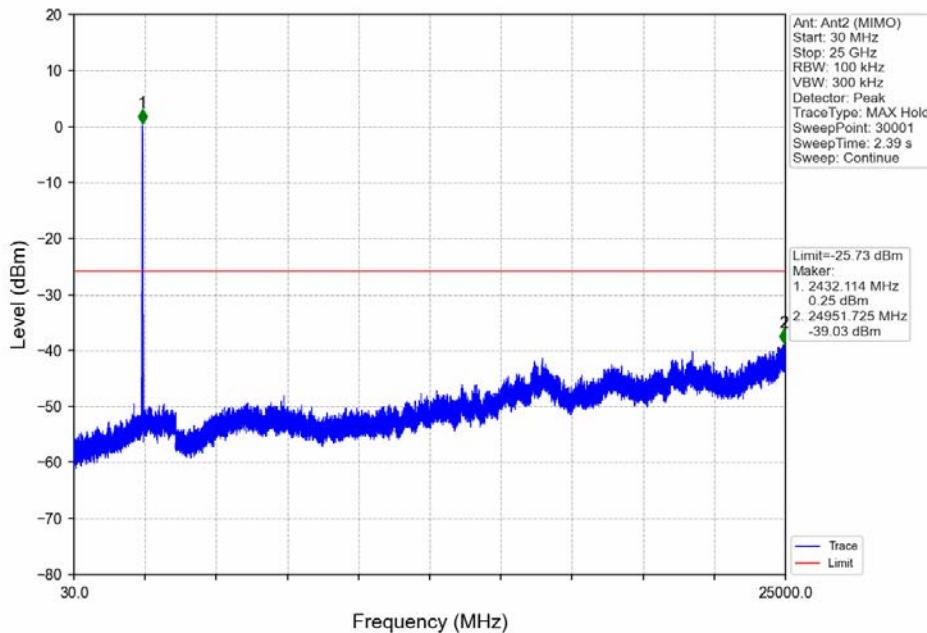
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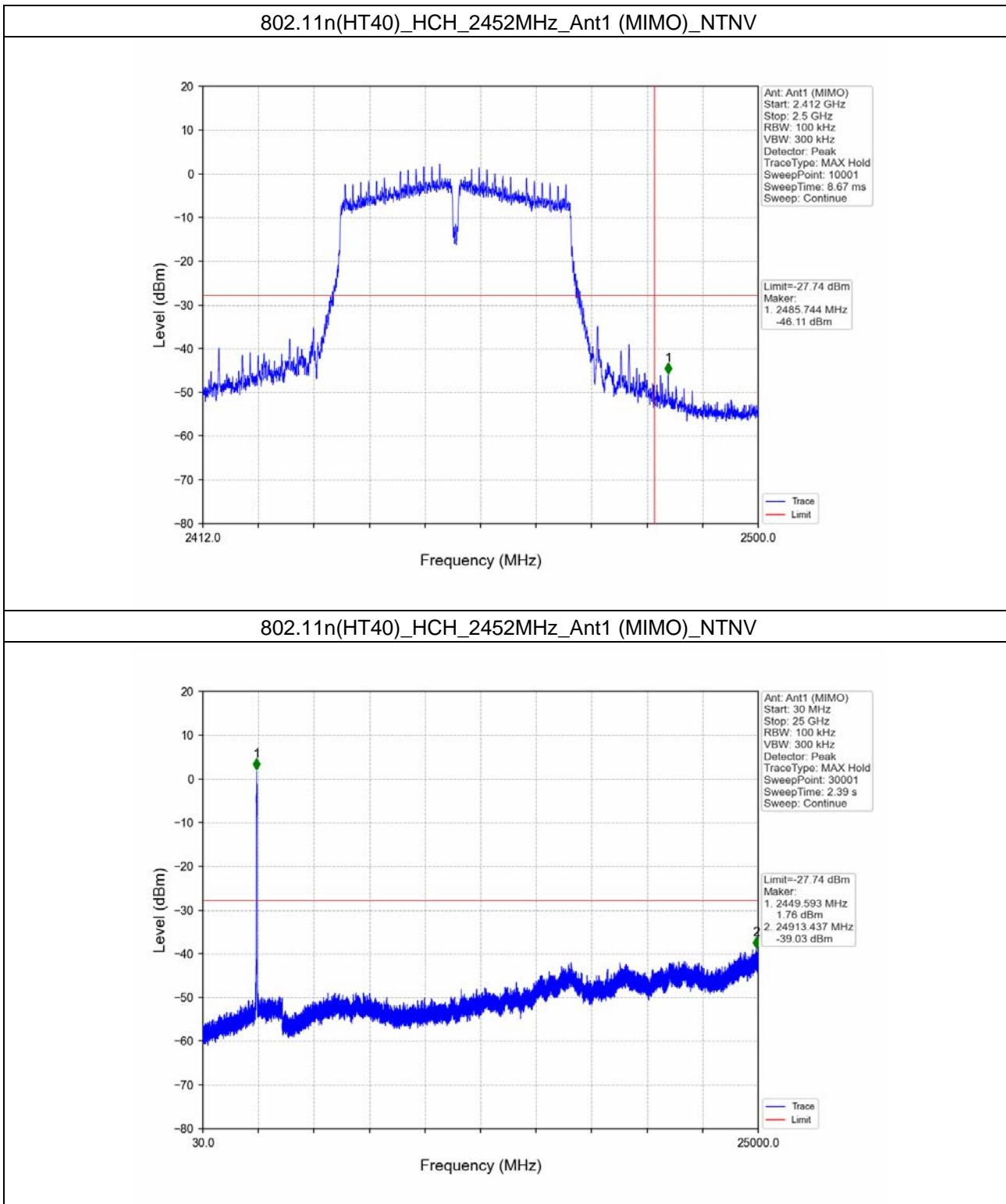


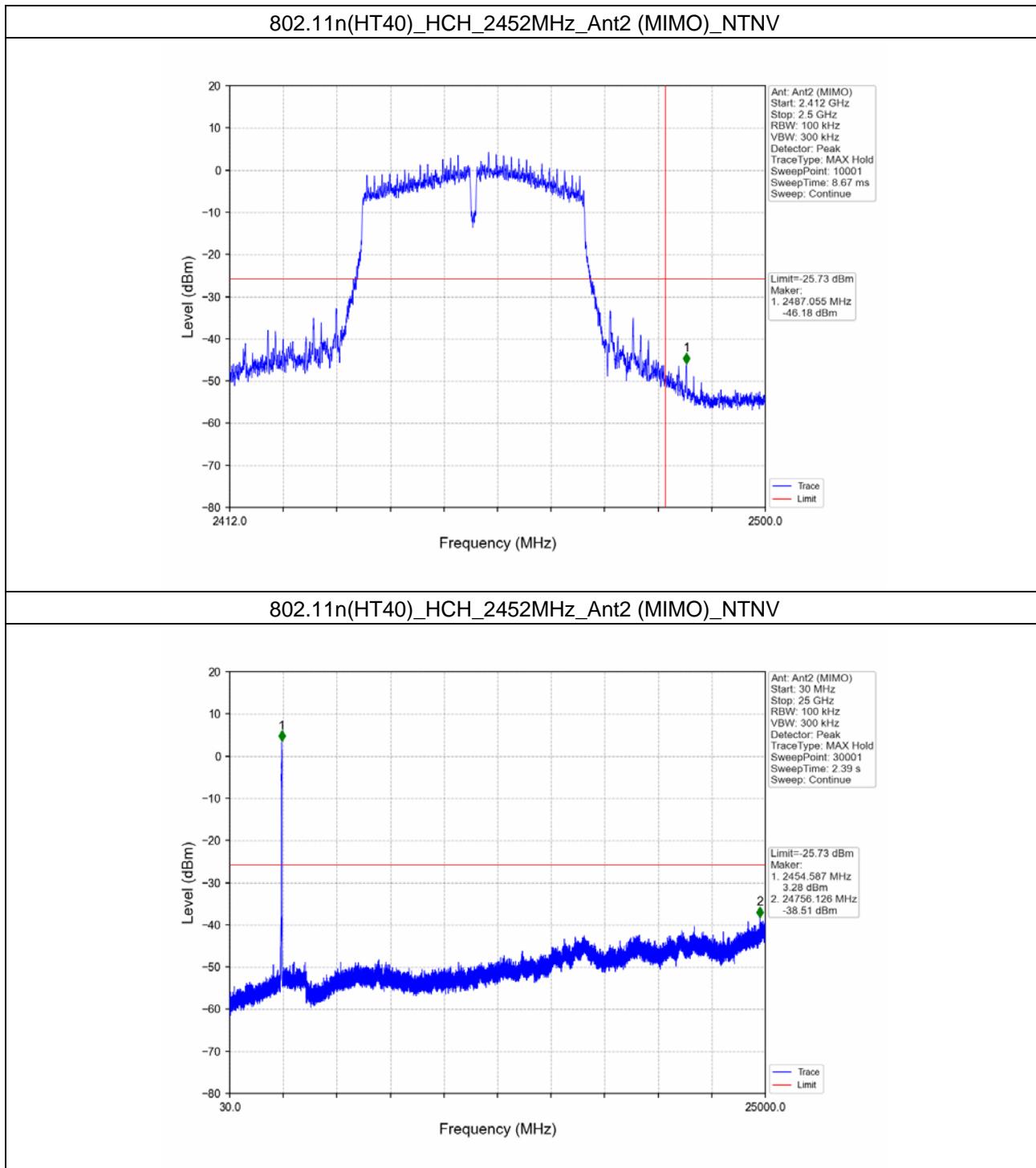
## 802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



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