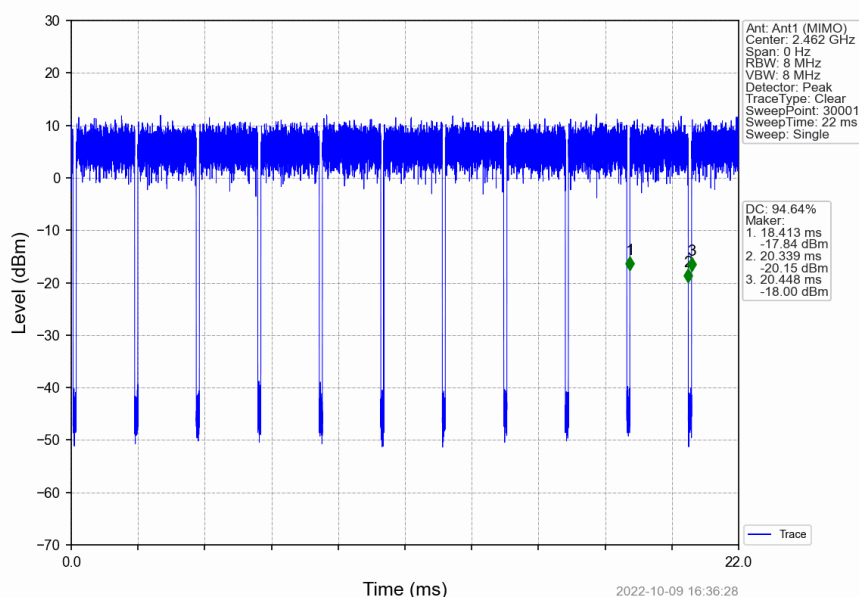
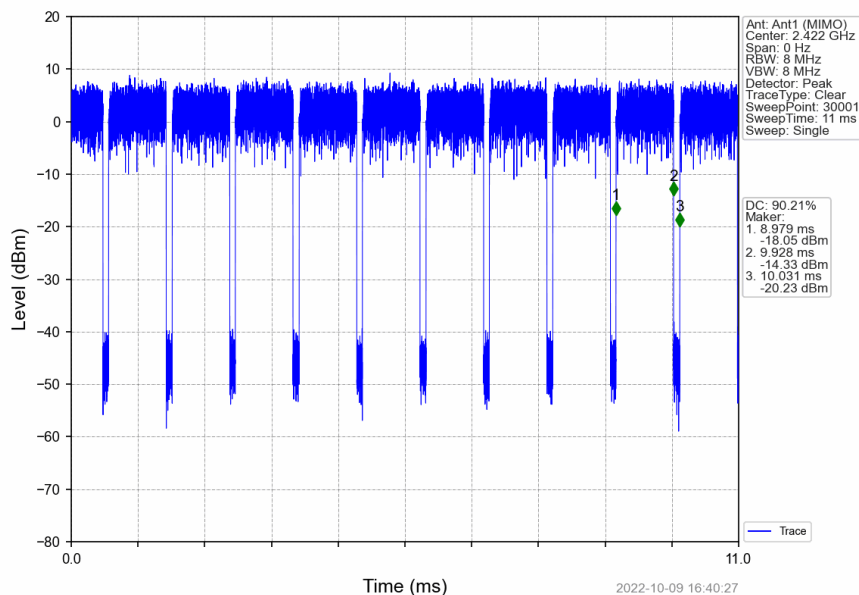


### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



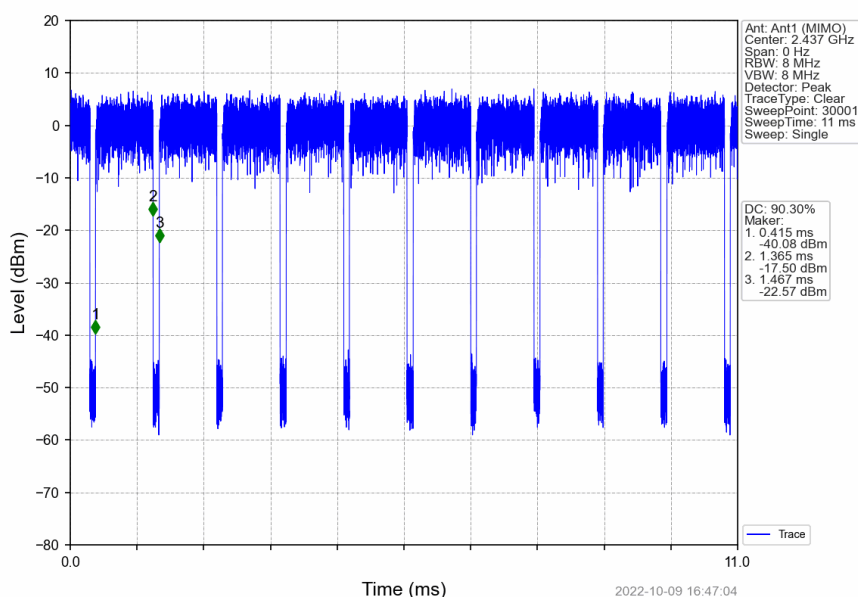
### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



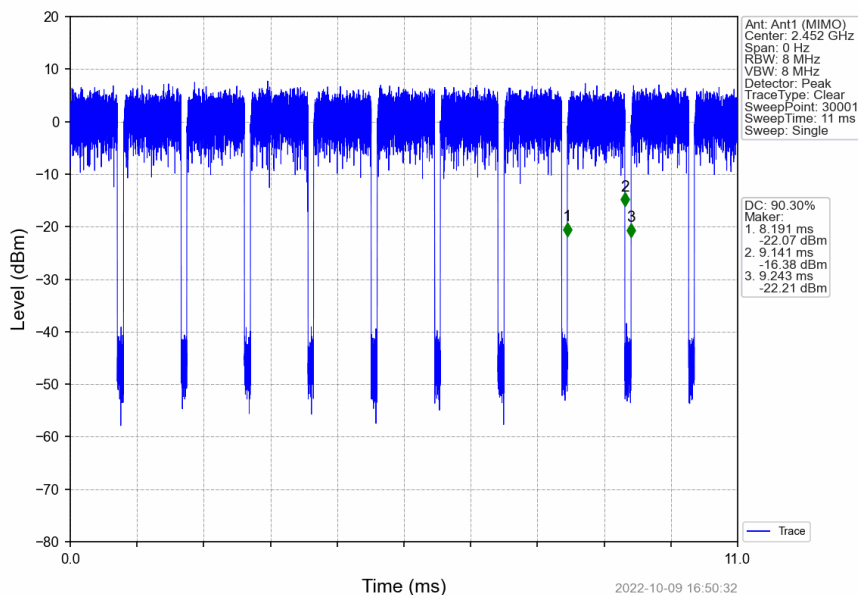
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### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



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## 2. Bandwidth

### 2.1 6dB BW

#### 2.1.1 Test Result

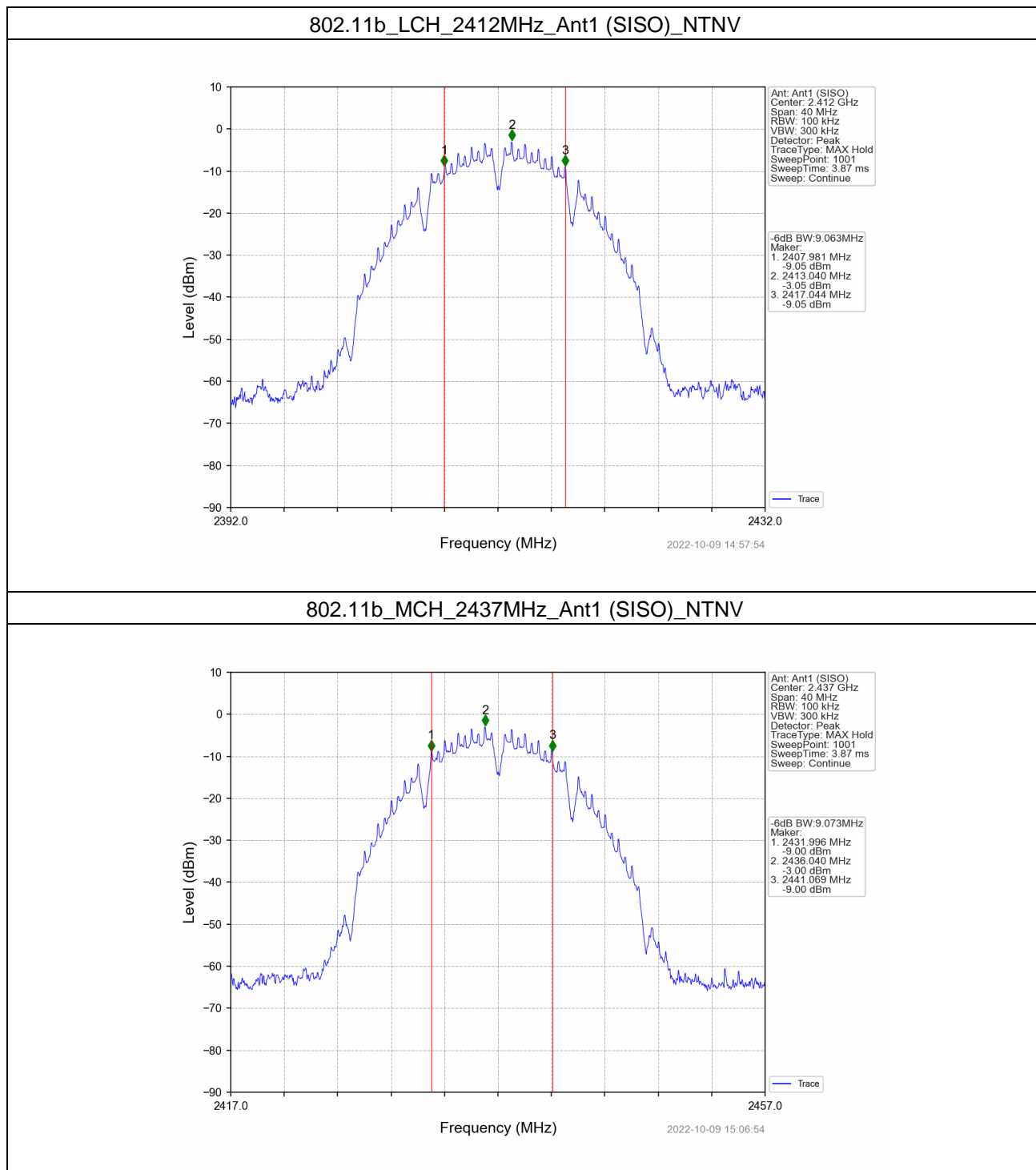
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.063	$\geq 0.5$	Pass
		2437	1	9.073	$\geq 0.5$	Pass
		2462	1	8.074	$\geq 0.5$	Pass
802.11g	SISO	2412	1	16.404	$\geq 0.5$	Pass
		2437	1	15.801	$\geq 0.5$	Pass
		2462	1	15.767	$\geq 0.5$	Pass
802.11n (HT20)	MIMO	2412	1	17.361	$\geq 0.5$	Pass
		2437	1	16.415	$\geq 0.5$	Pass
		2462	1	16.359	$\geq 0.5$	Pass
802.11n (HT40)	MIMO	2422	1	35.166	$\geq 0.5$	Pass
		2437	1	35.412	$\geq 0.5$	Pass
		2452	1	35.778	$\geq 0.5$	Pass



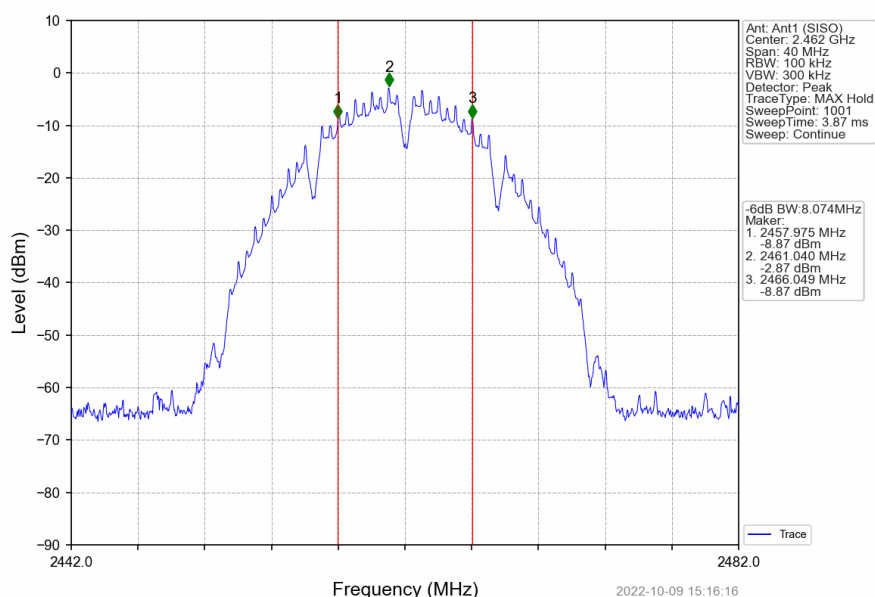
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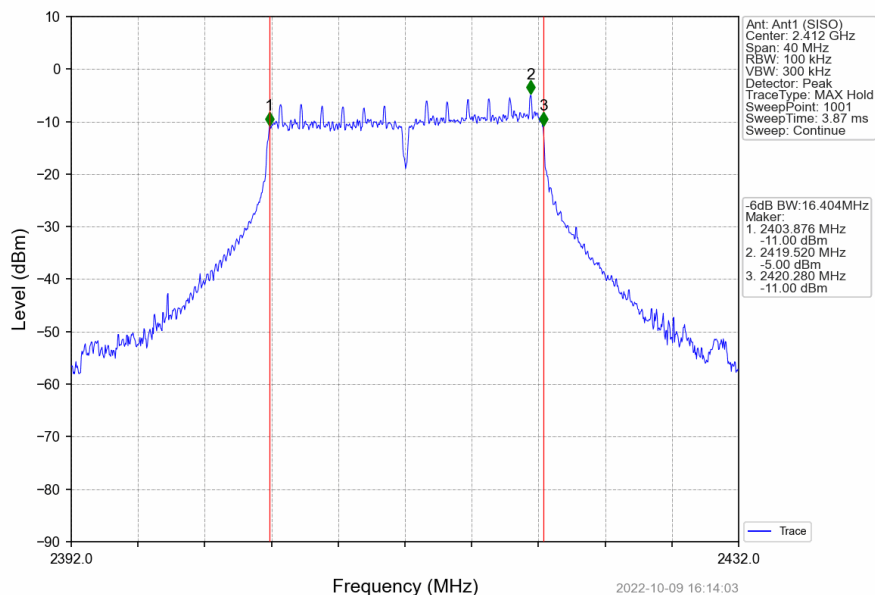
### 2.1.2 Test Graph



### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

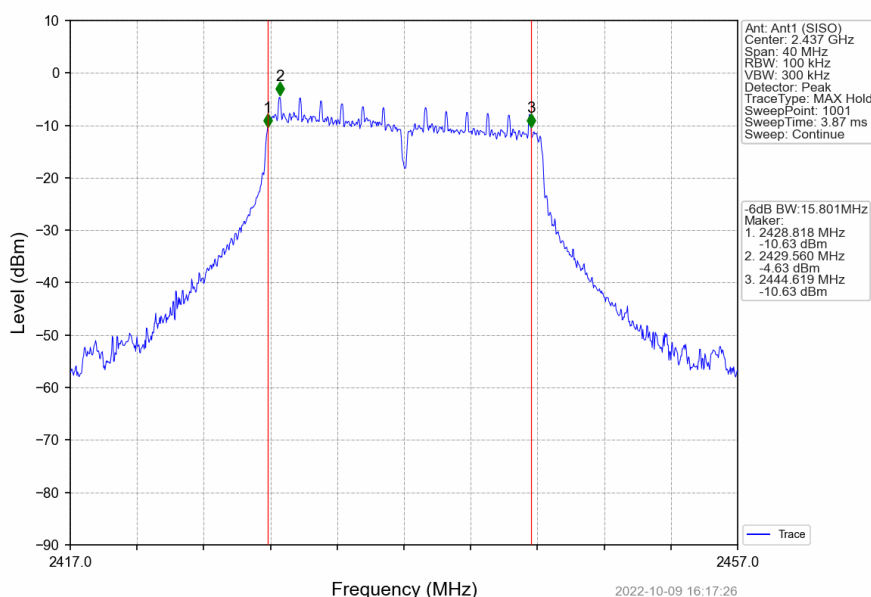


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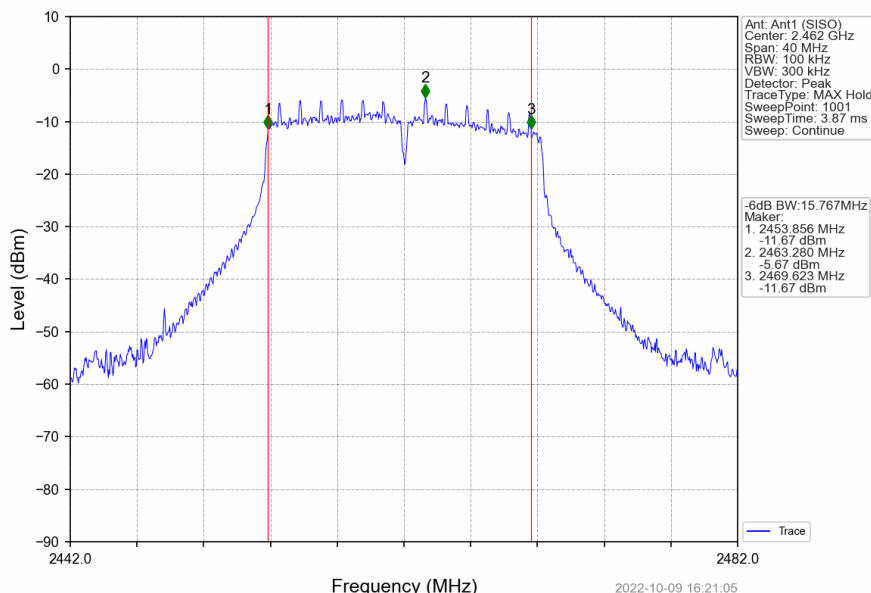
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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

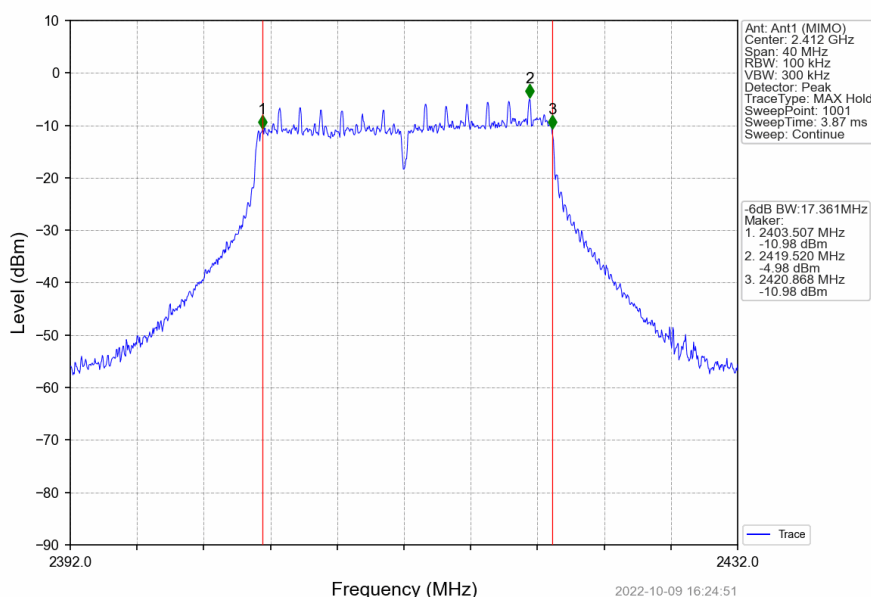


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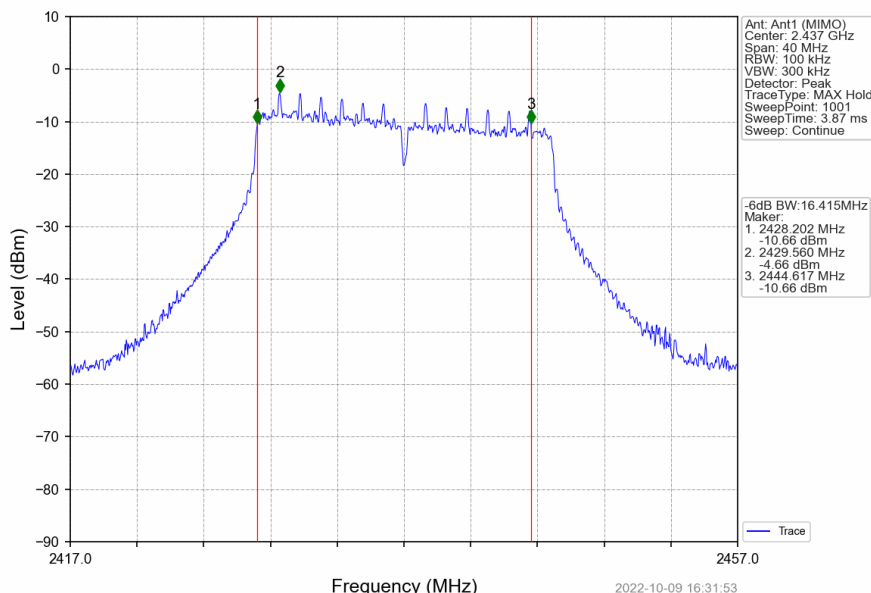
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



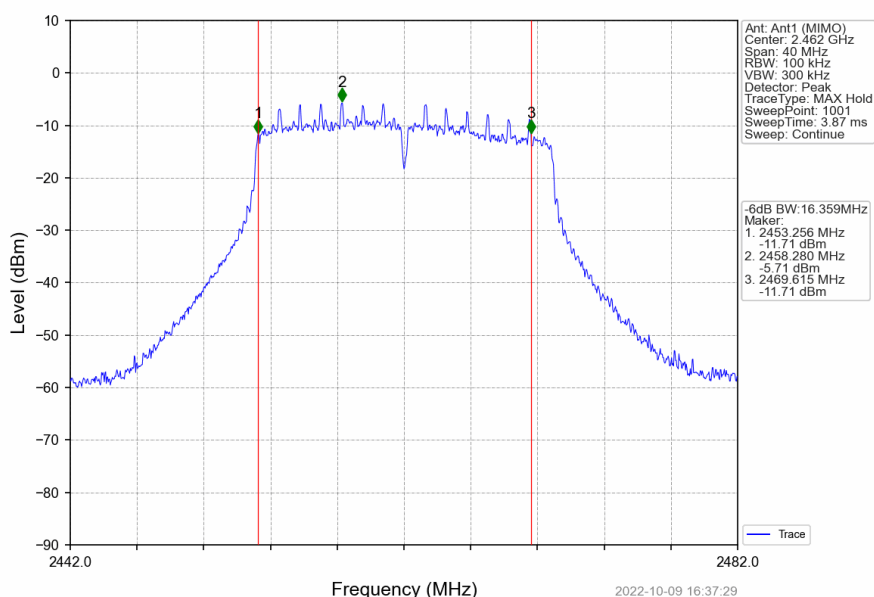
### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



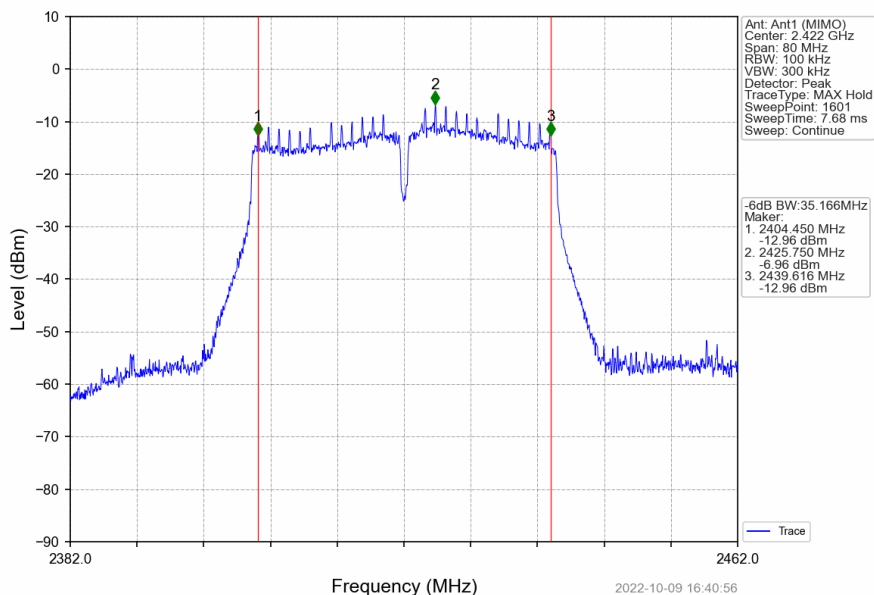
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### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



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



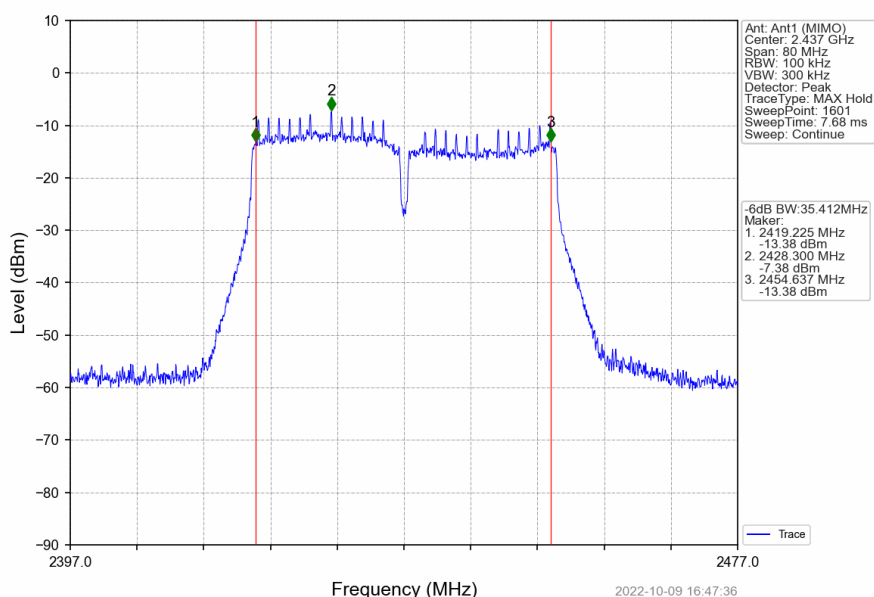
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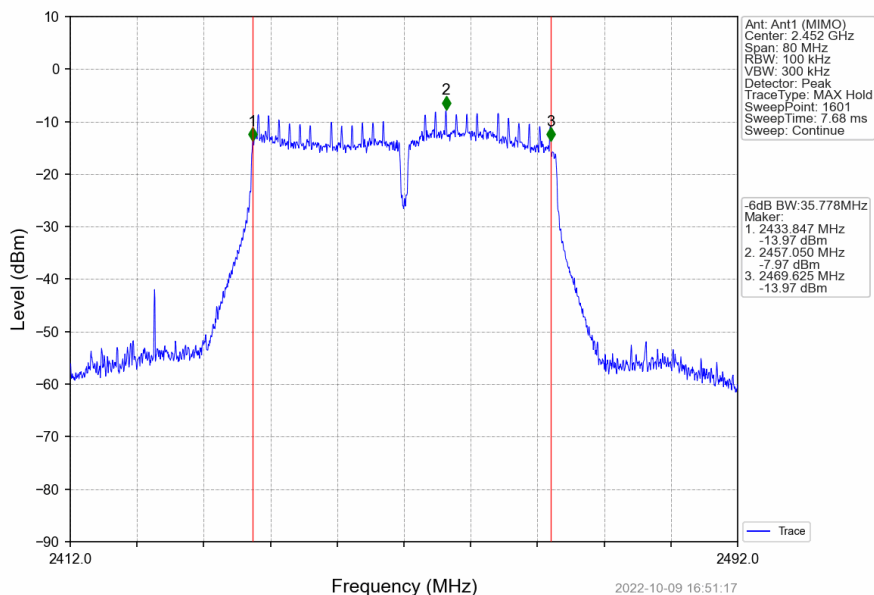
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### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



## 3. Maximum Conducted Output Power

### 3.1 Power

#### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	7.94	4.81	/	<=30	Pass
		2437	8.03	2.84	/	<=30	Pass
		2462	7.90	2.67	/	<=30	Pass
802.11g	SISO	2412	13.02	9.77	/	<=30	Pass
		2437	12.90	7.82	/	<=30	Pass
		2462	13.09	7.95	/	<=30	Pass
802.11n (HT20)	MIMO	2412	13.02	9.95	14.76	<=30	Pass
		2437	12.92	7.74	14.07	<=30	Pass
		2462	12.96	7.85	14.13	<=30	Pass
802.11n (HT40)	MIMO	2422	13.21	9.12	14.64	<=30	Pass
		2437	12.96	7.98	14.16	<=30	Pass
		2452	13.21	8.10	14.38	<=30	Pass

Note1: Antenna Gain: Ant1: 2.59dBi; Ant2: 2.59dBi;  
Note2: Directional Gain: 5.6dBi

### 4. Maximum Power Spectral Density

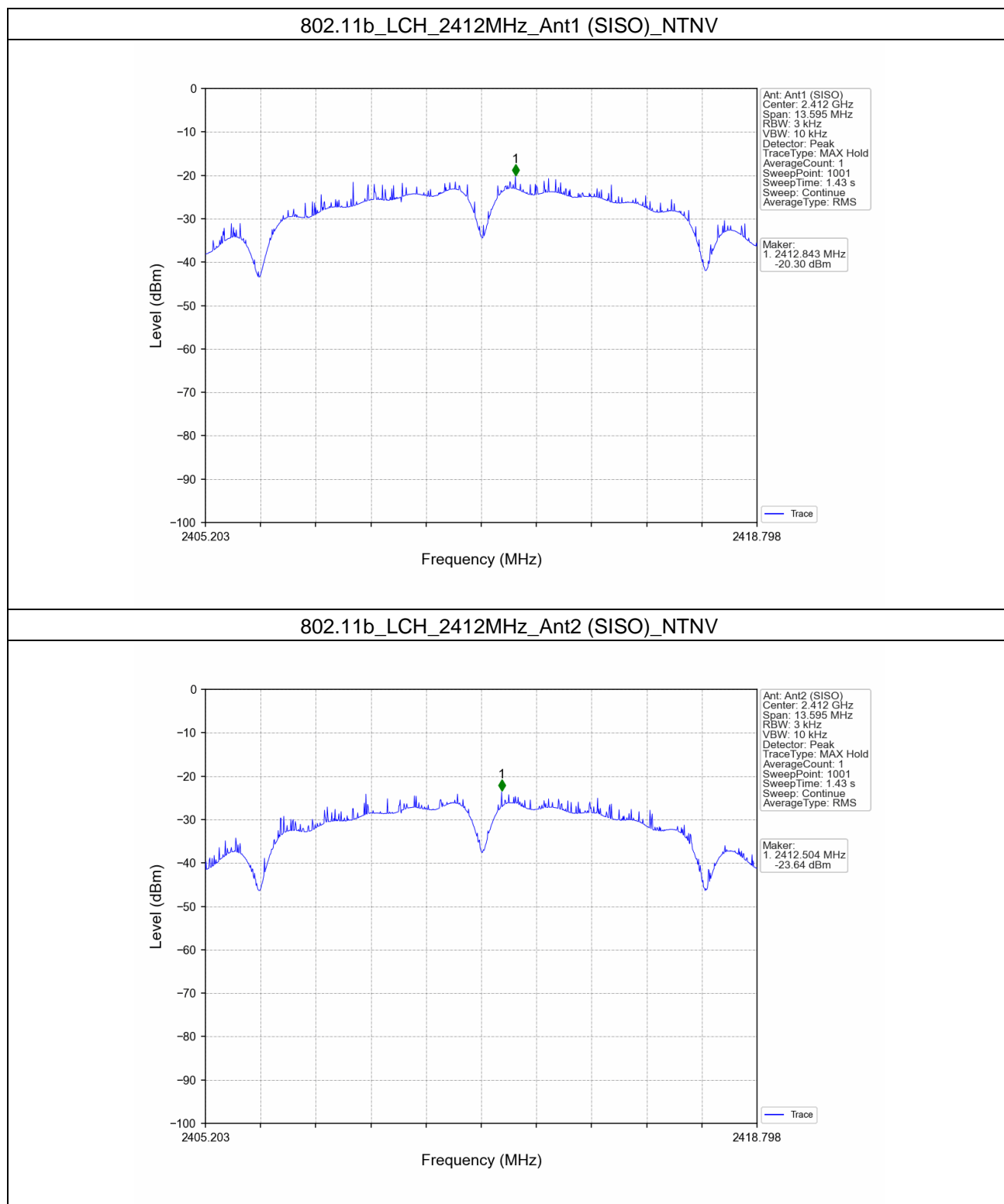
#### 4.1 PSD

##### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	-20.30	-23.64	/	<=8	Pass
		2437	-21.25	-24.43	/	<=8	Pass
		2462	-20.44	-25.11	/	<=8	Pass
802.11g	SISO	2412	-21.71	-25.20	/	<=8	Pass
		2437	-21.22	-27.58	/	<=8	Pass
		2462	-21.93	-26.45	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-21.80	-25.98	-20.73	<=8	Pass
		2437	-20.14	-27.66	-19.64	<=8	Pass
		2462	-22.40	-25.51	-21.55	<=8	Pass
802.11n (HT40)	MIMO	2422	-24.06	-28.52	-23.09	<=8	Pass
		2437	-23.34	-29.53	-22.80	<=8	Pass
		2452	-22.58	-29.54	-22.11	<=8	Pass

Note1: Antenna Gain: Ant1: 2.59dBi; Ant2: 2.59dBi;  
Note2: Directional Gain: 5.6dBi

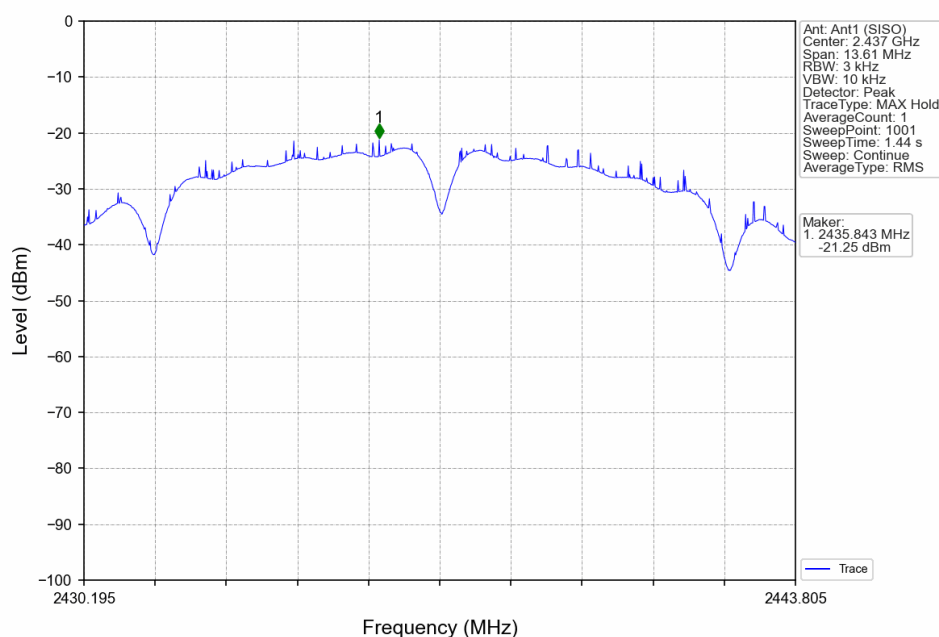
### 4.1.2 Test Graph



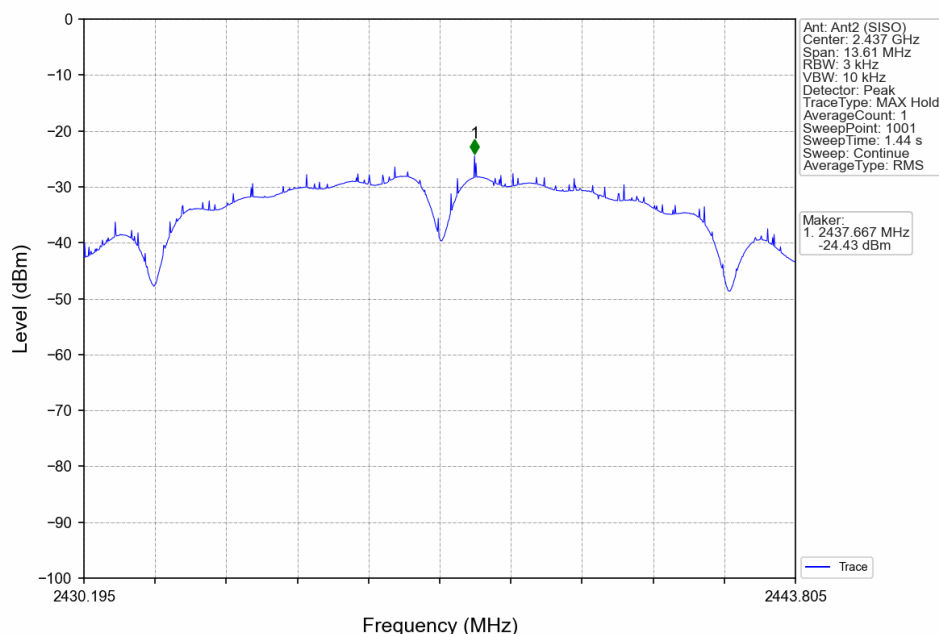
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### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



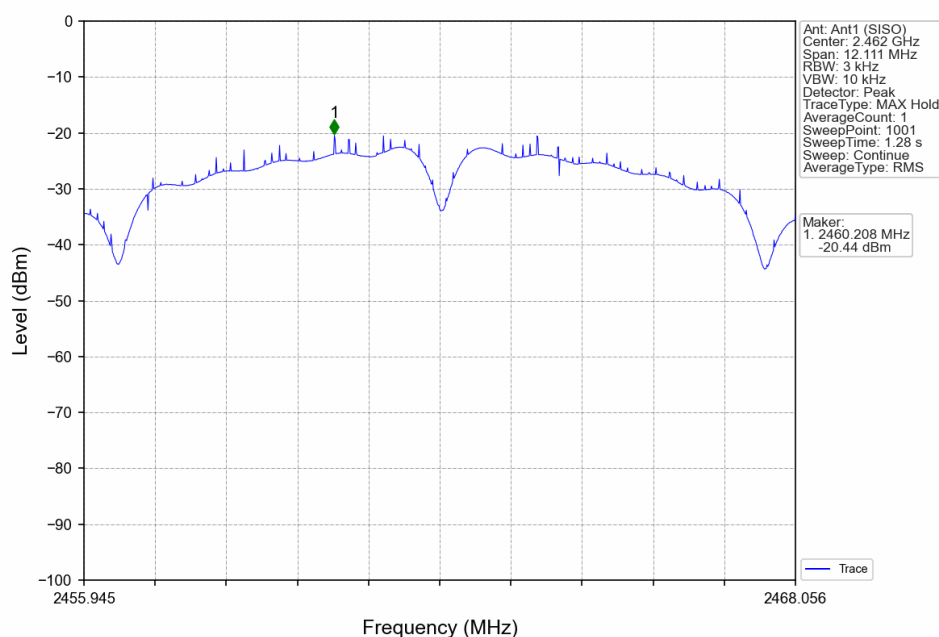
### 802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



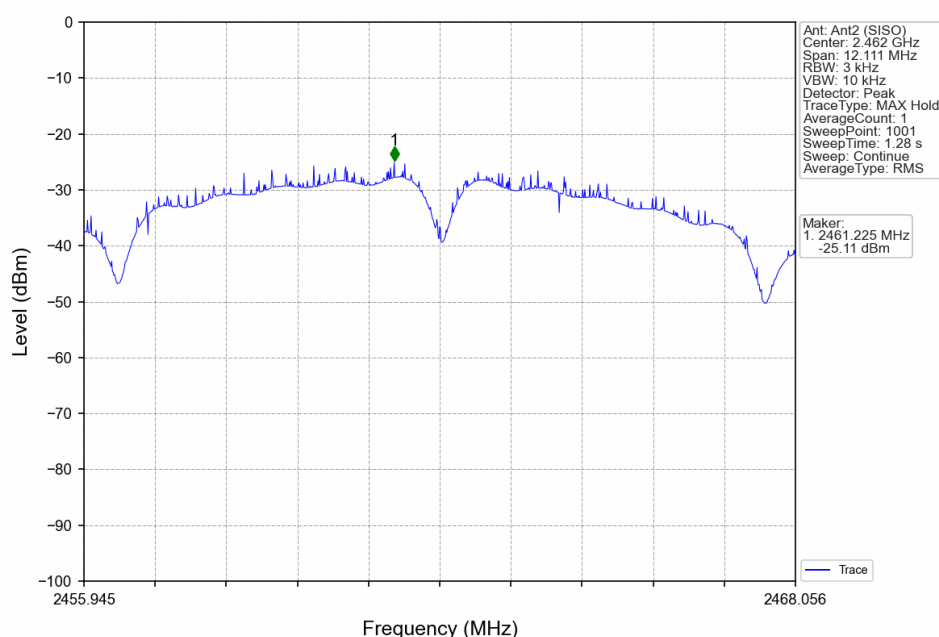
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



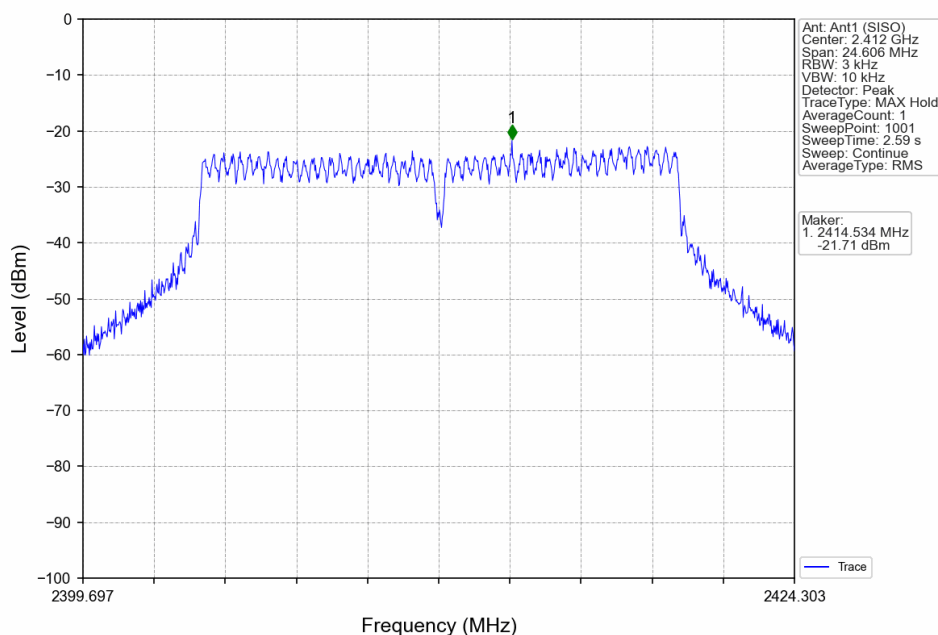
### 802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



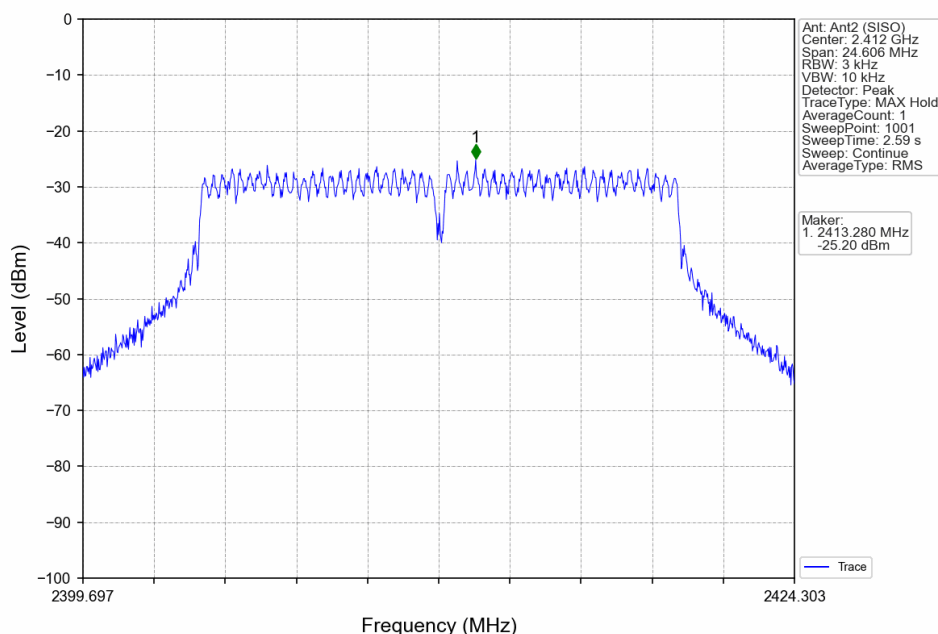
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### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



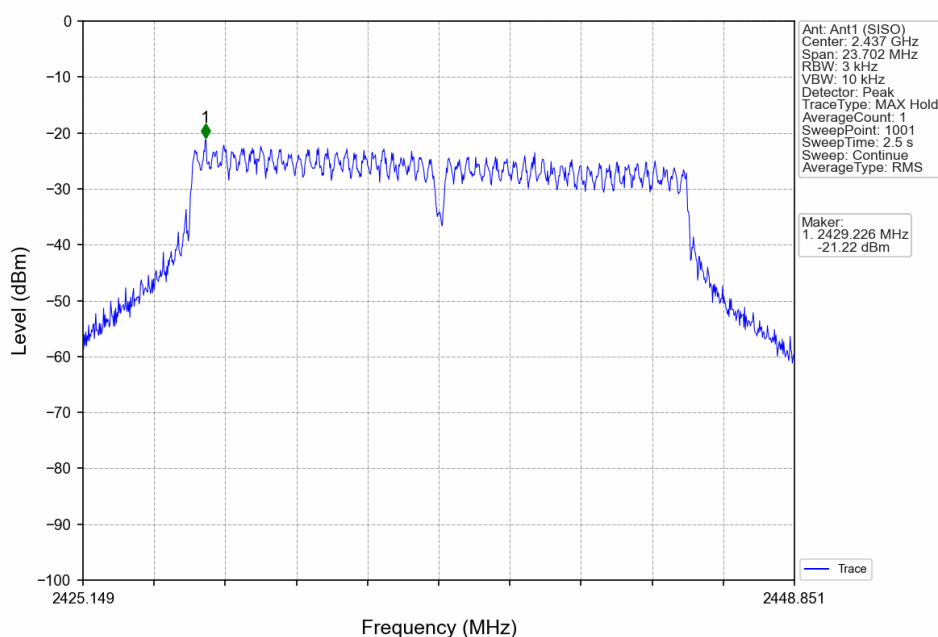
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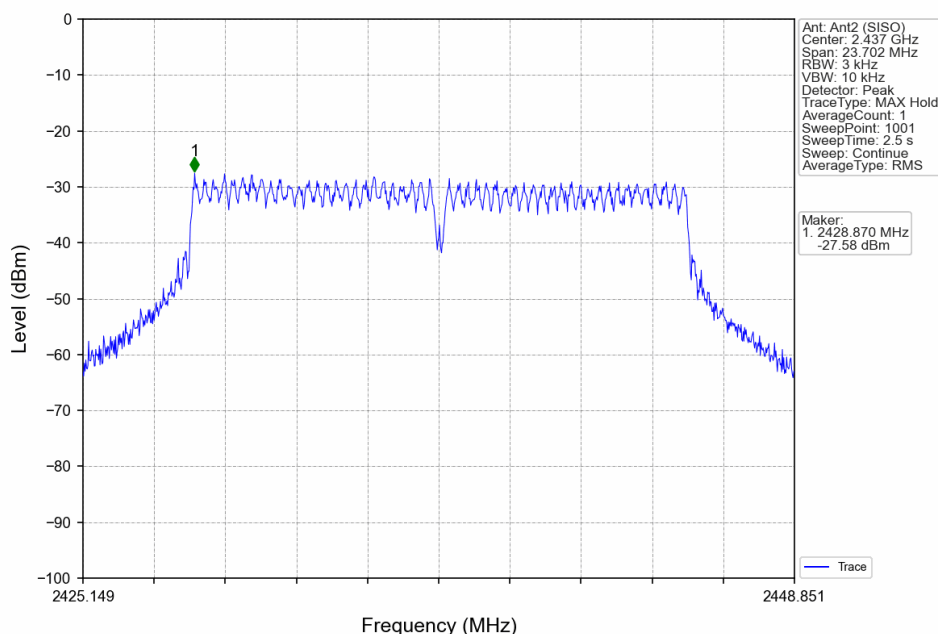
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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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

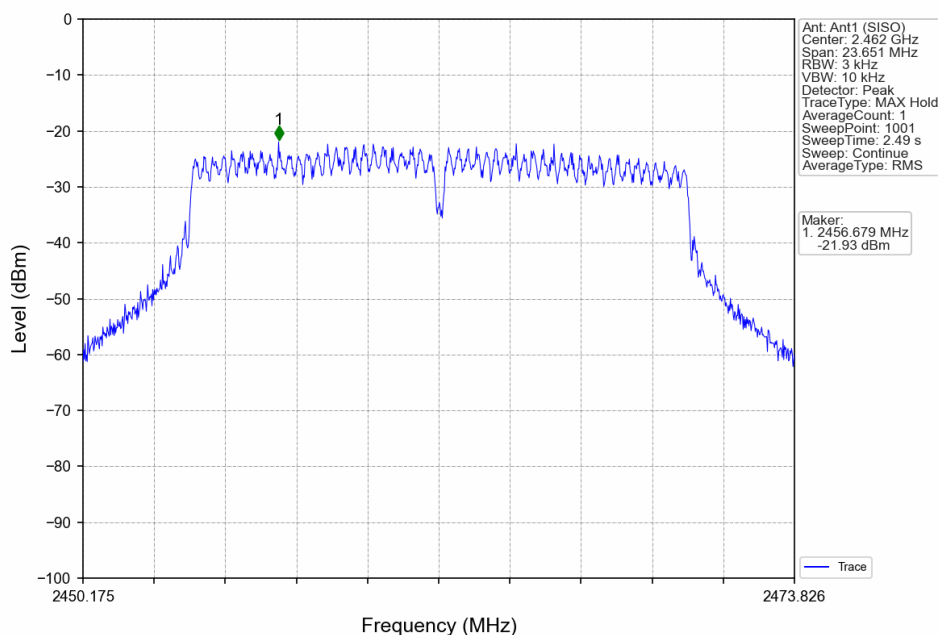


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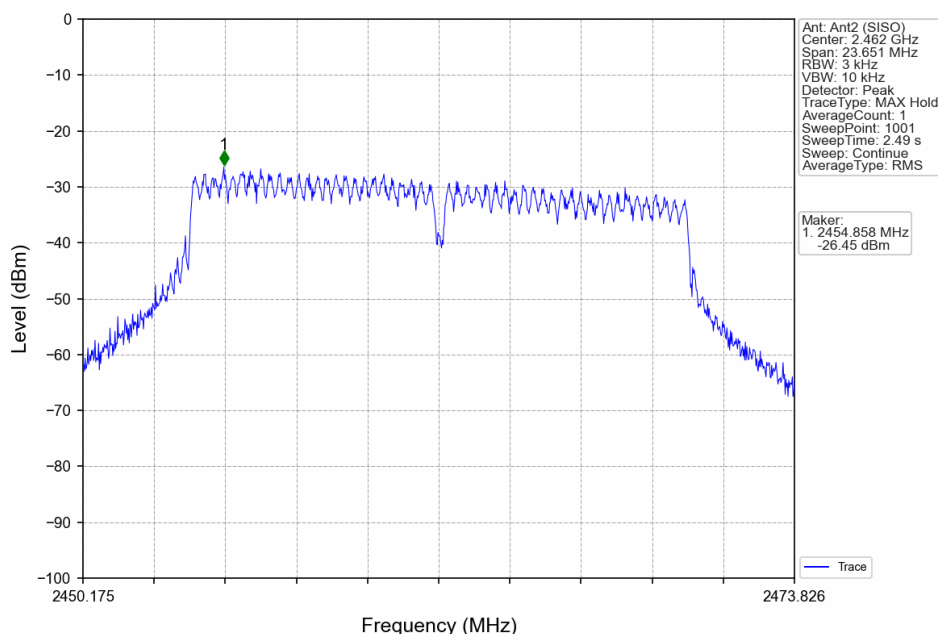
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### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



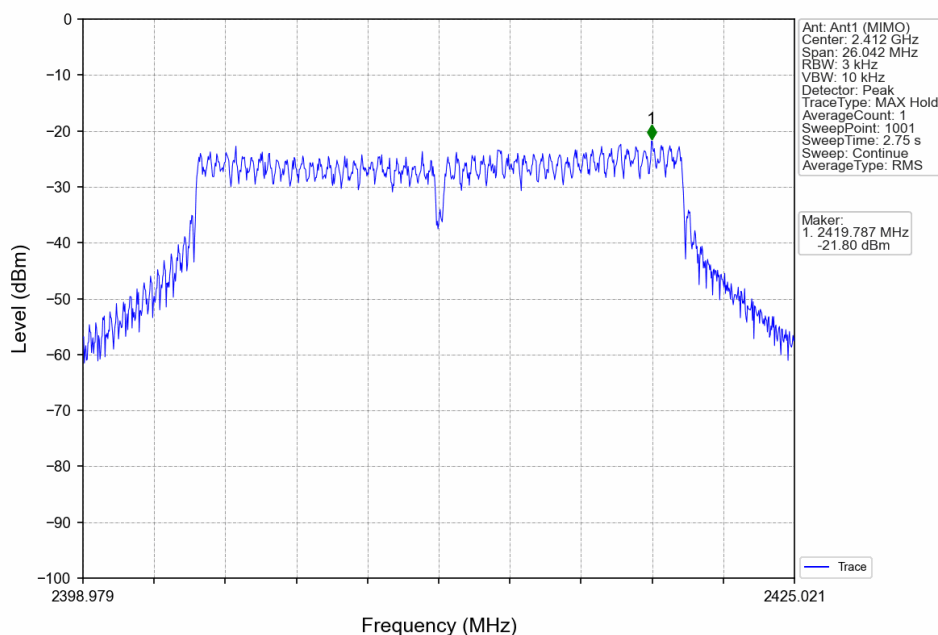
### 802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



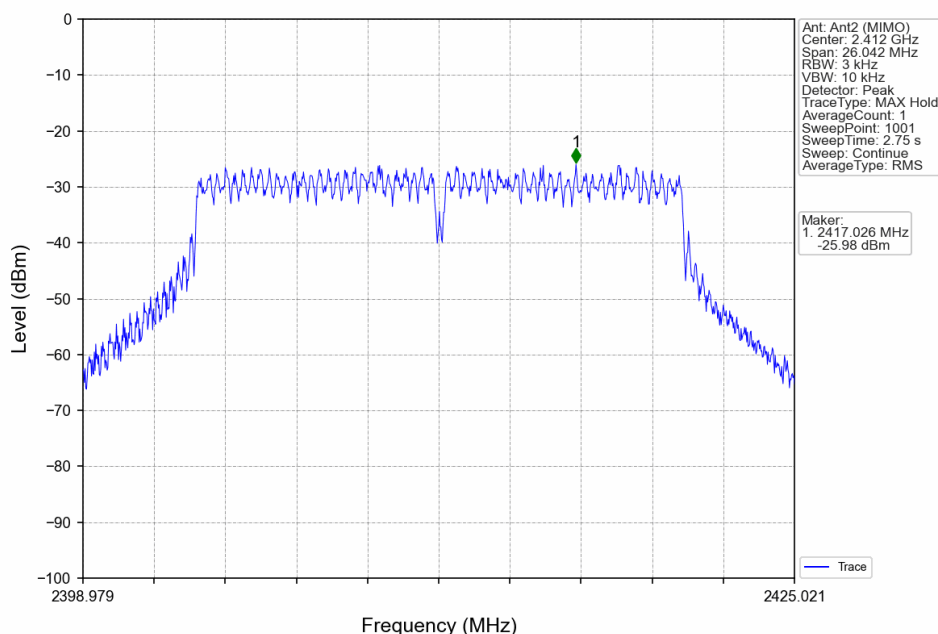
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



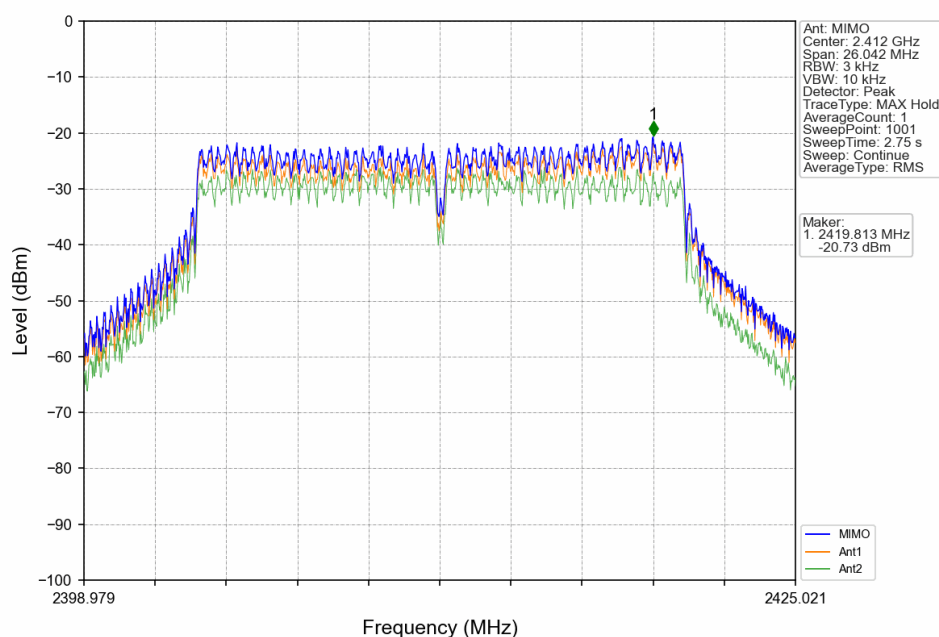
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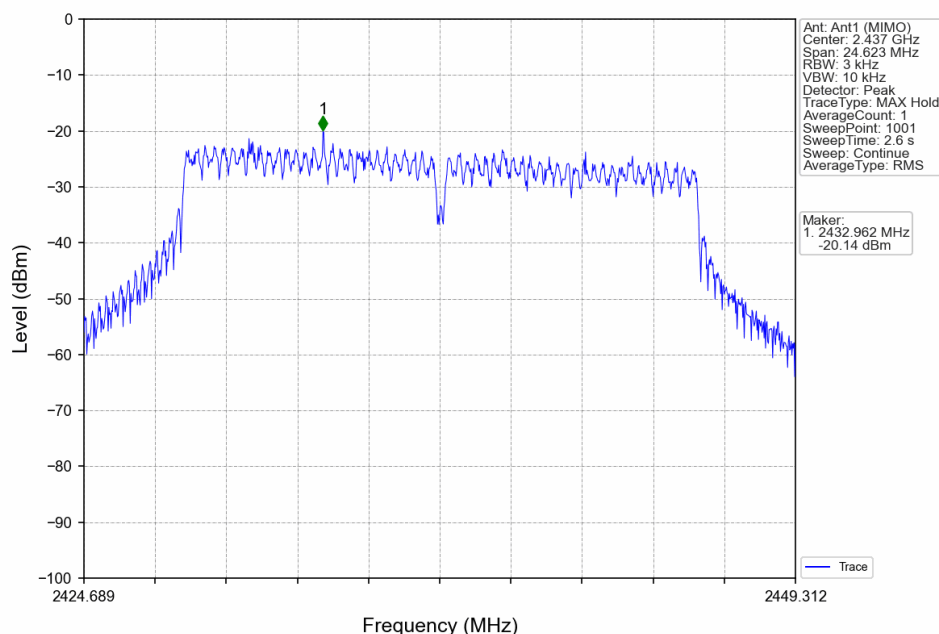
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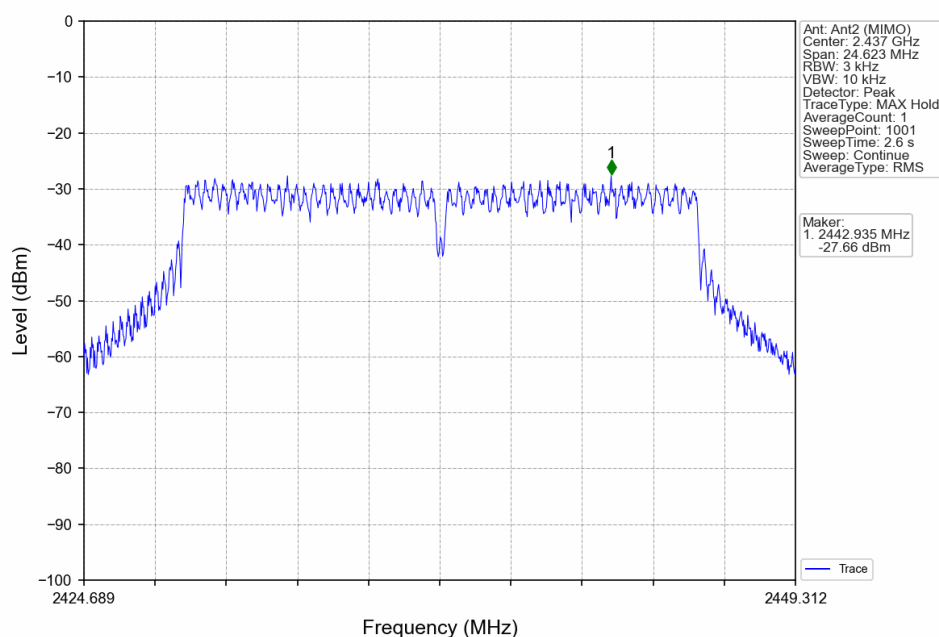
802.11n(HT20)\_LCH\_2412MHz\_MIMO\_NTNV



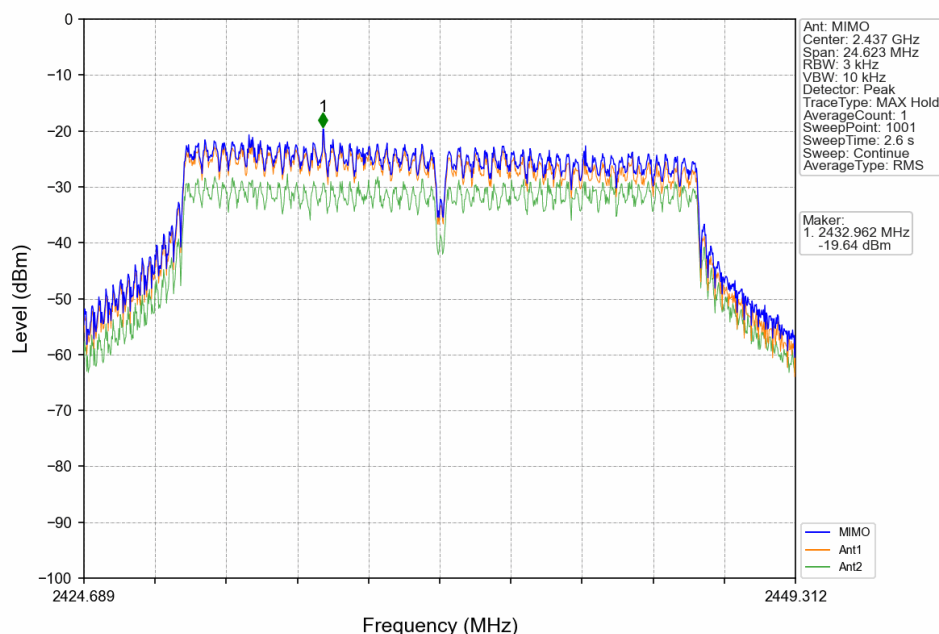
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



### 802.11n(HT20)\_MCH\_2437MHz\_MIMO\_NTNV

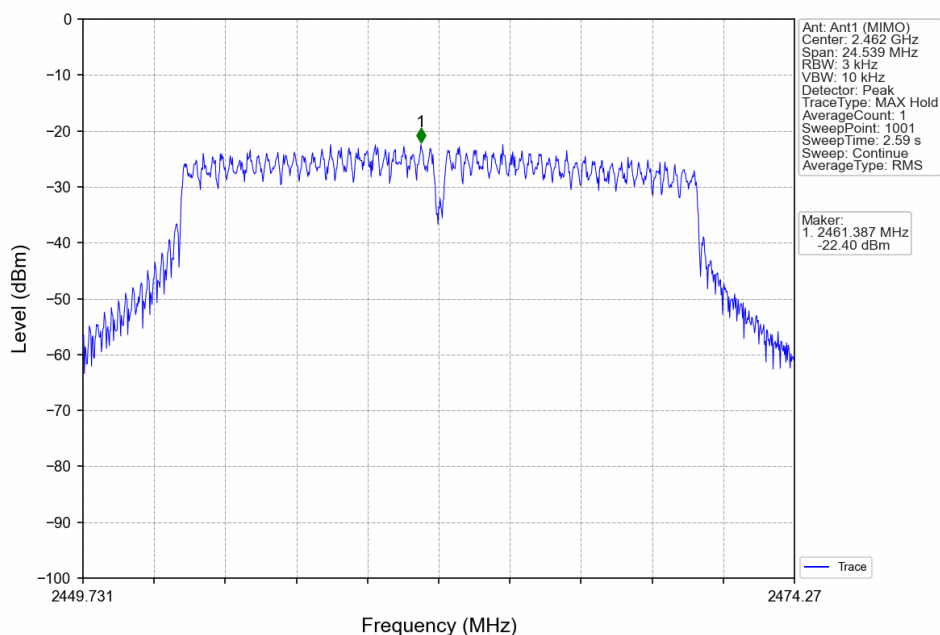


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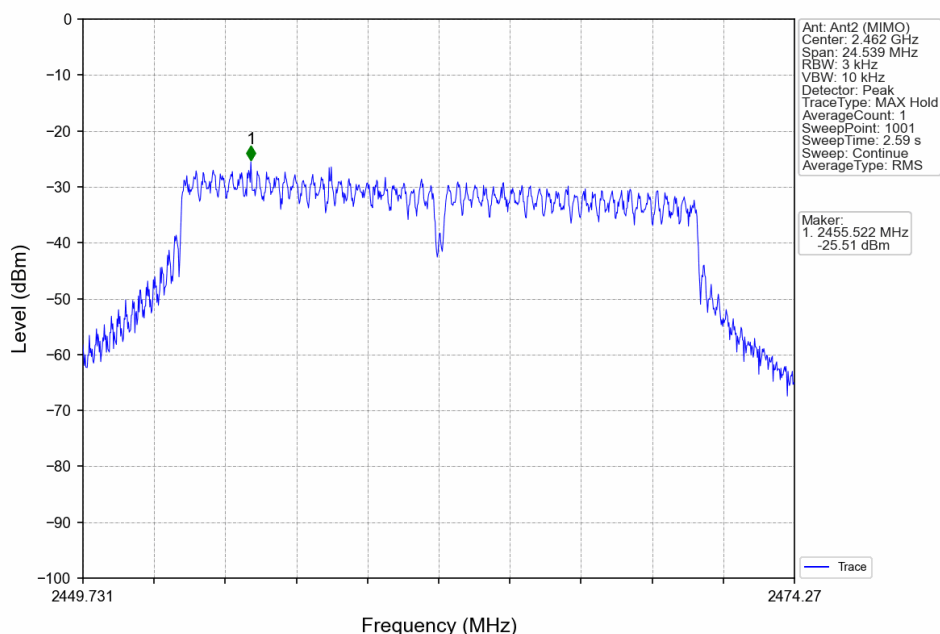
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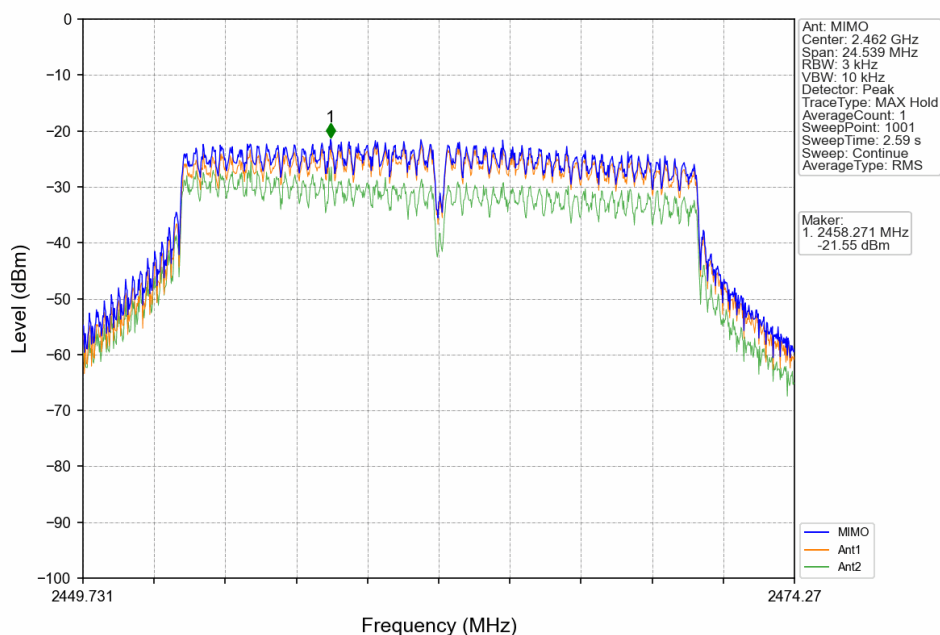
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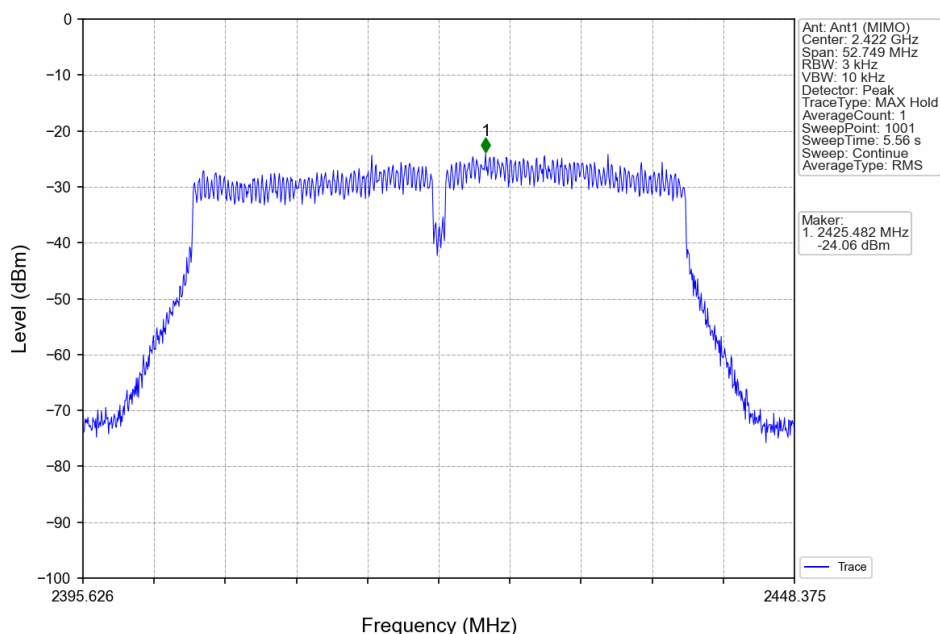
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### 802.11n(HT20)\_HCH\_2462MHz\_MIMO\_NTNV

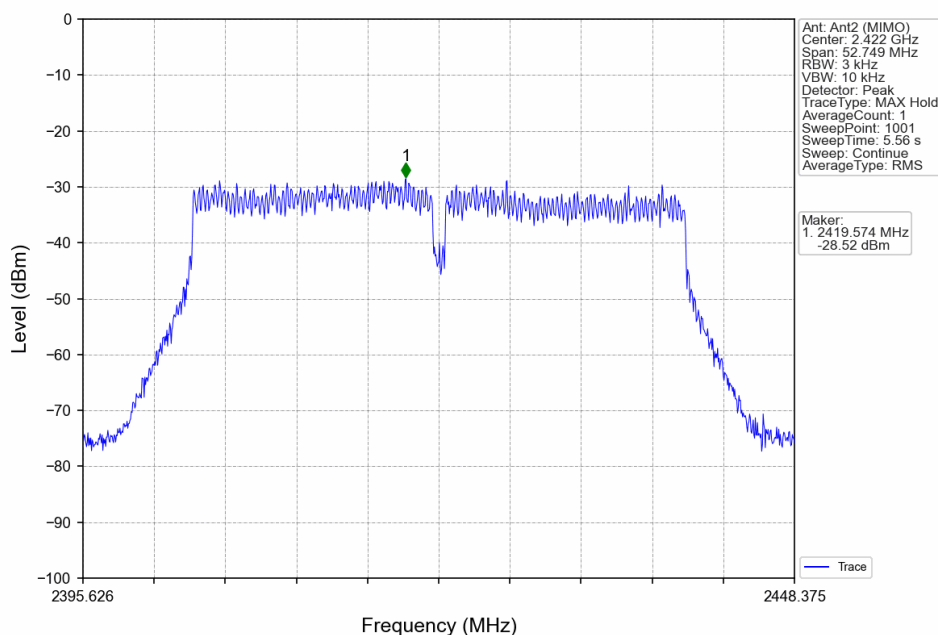


### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV

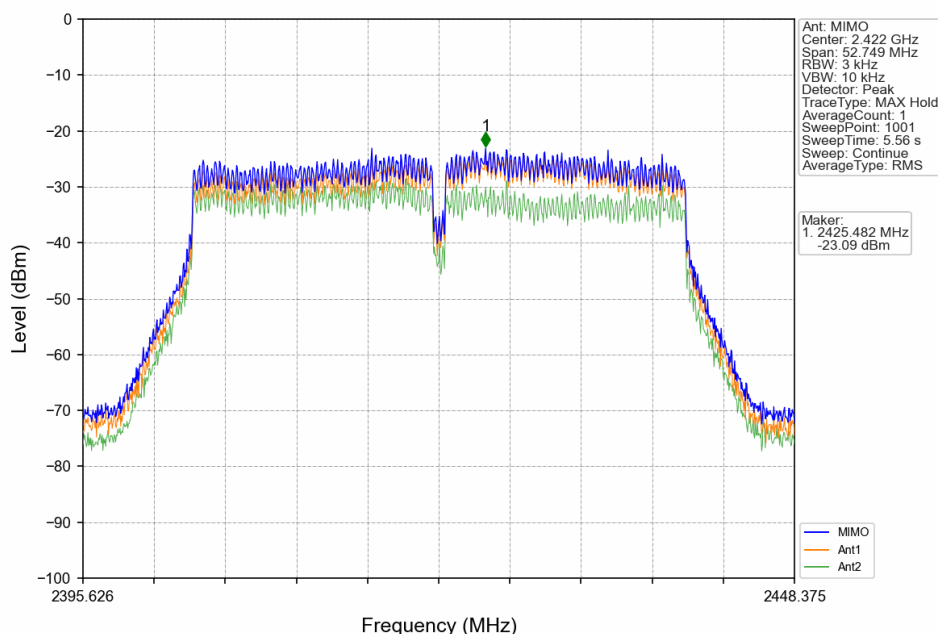


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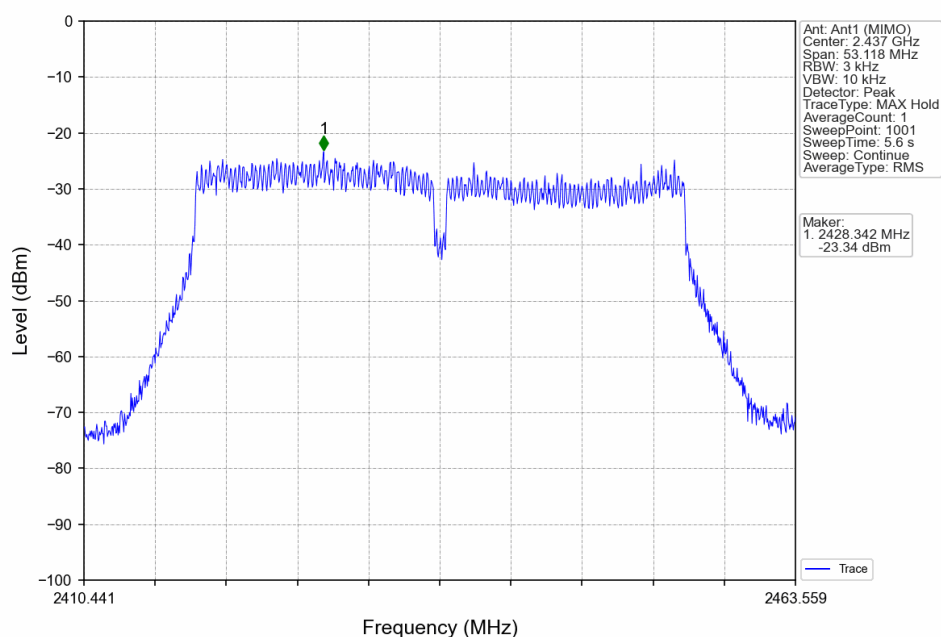
802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



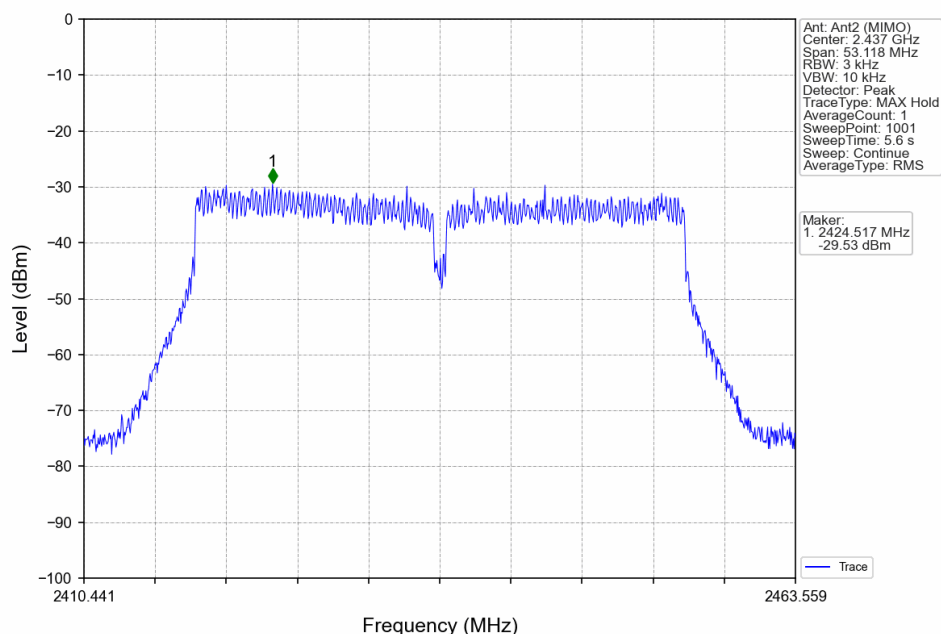
802.11n(HT40)\_LCH\_2422MHz\_MIMO\_NTNV



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



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

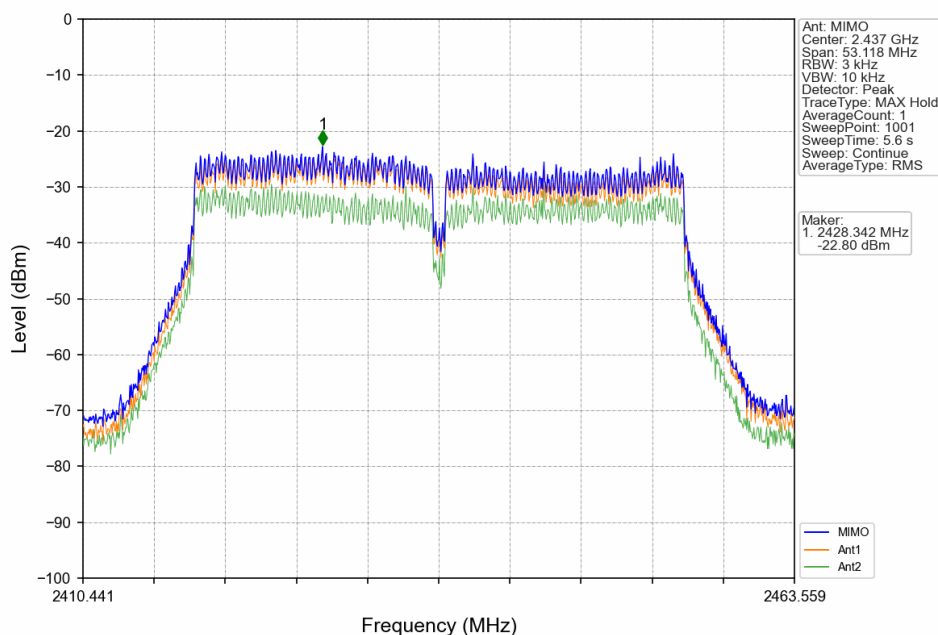


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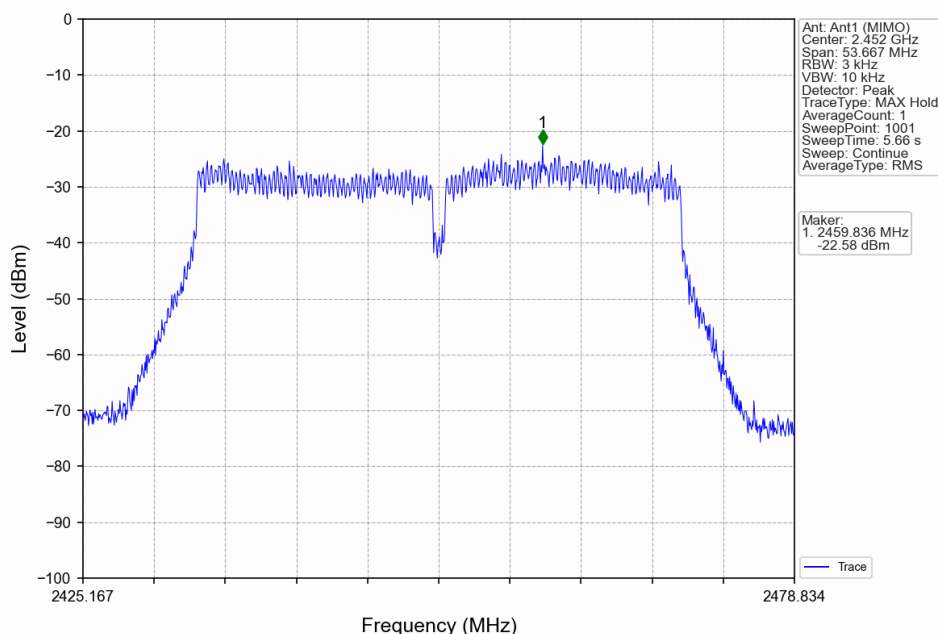
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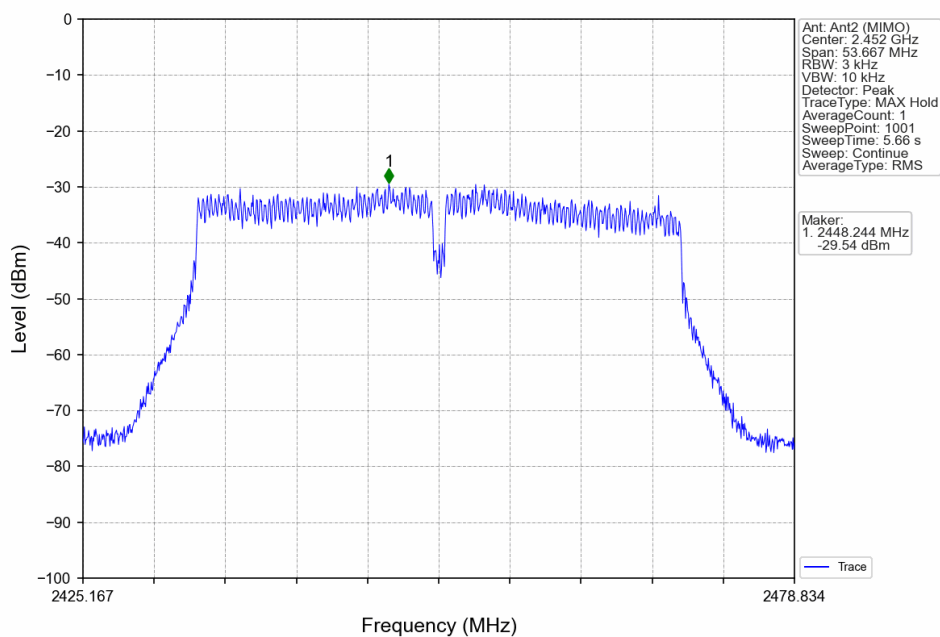
### 802.11n(HT40)\_MCH\_2437MHz\_MIMO\_NTNV



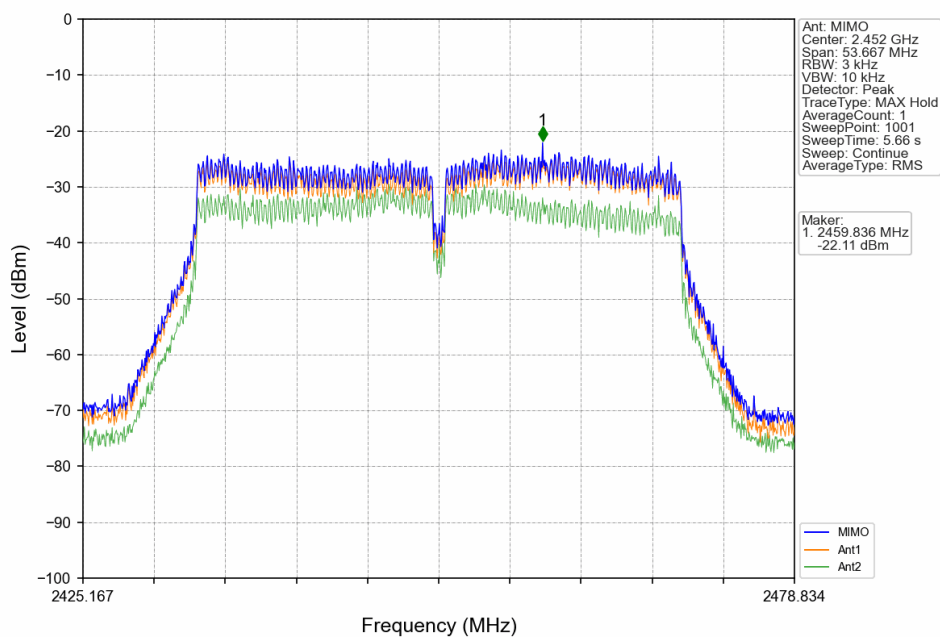
### 802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



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

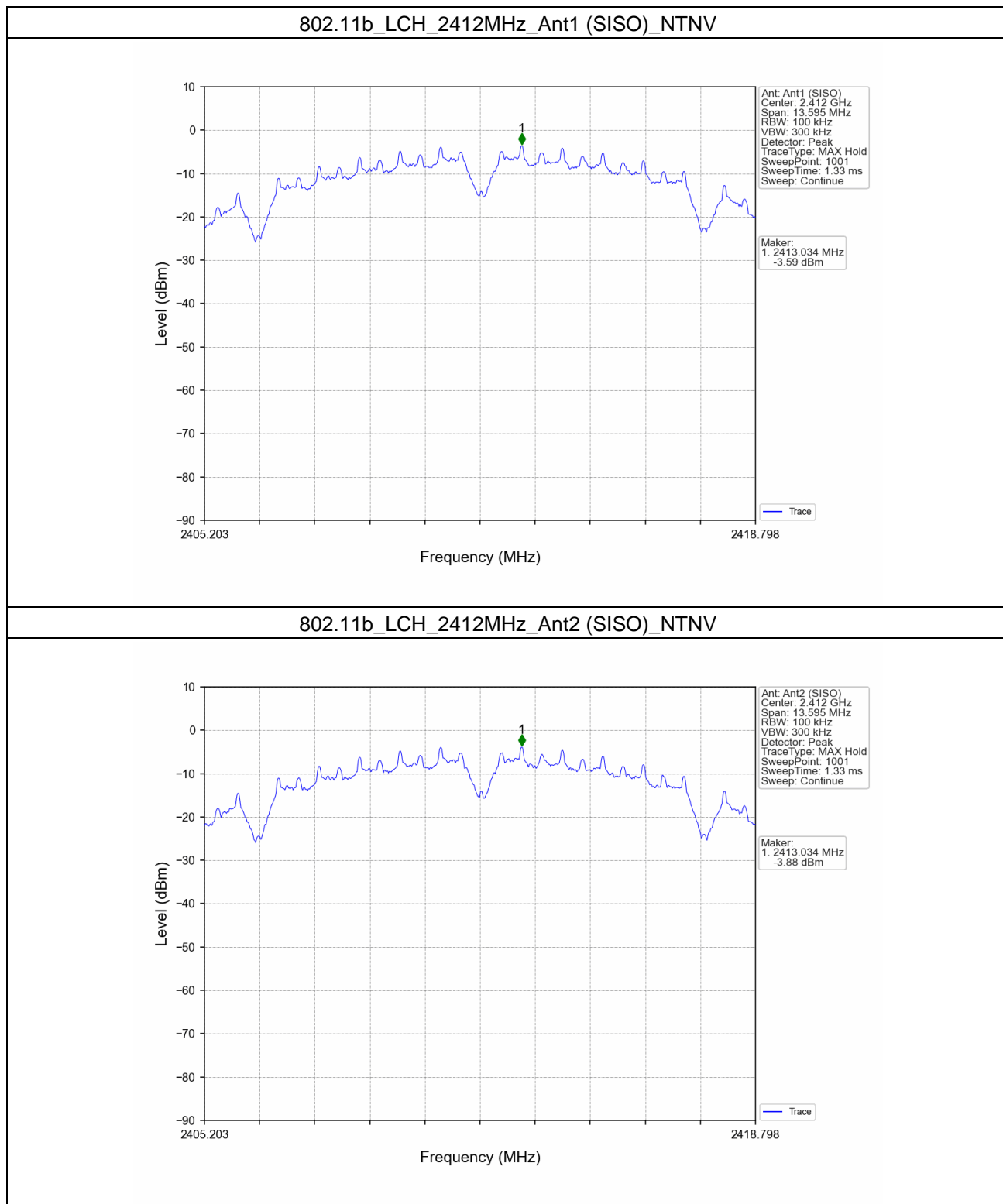
#### 5.1 Ref

##### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-3.59
			2	-3.88
		2437	1	-3.47
			2	-4.88
		2462	1	-3.33
			2	-3.61
802.11g	SISO	2412	1	-5.76
			2	-6.80
		2437	1	-5.13
			2	-7.58
		2462	1	-6.45
			2	-6.59
802.11n (HT20)	MIMO	2412	1	-5.35
			2	-6.37
		2437	1	-4.95
			2	-7.54
		2462	1	-6.34
			2	-6.70
802.11n (HT40)	MIMO	2422	1	-7.76
			2	-9.81
		2437	1	-7.84
			2	-9.76
		2452	1	-8.56
			2	-9.78

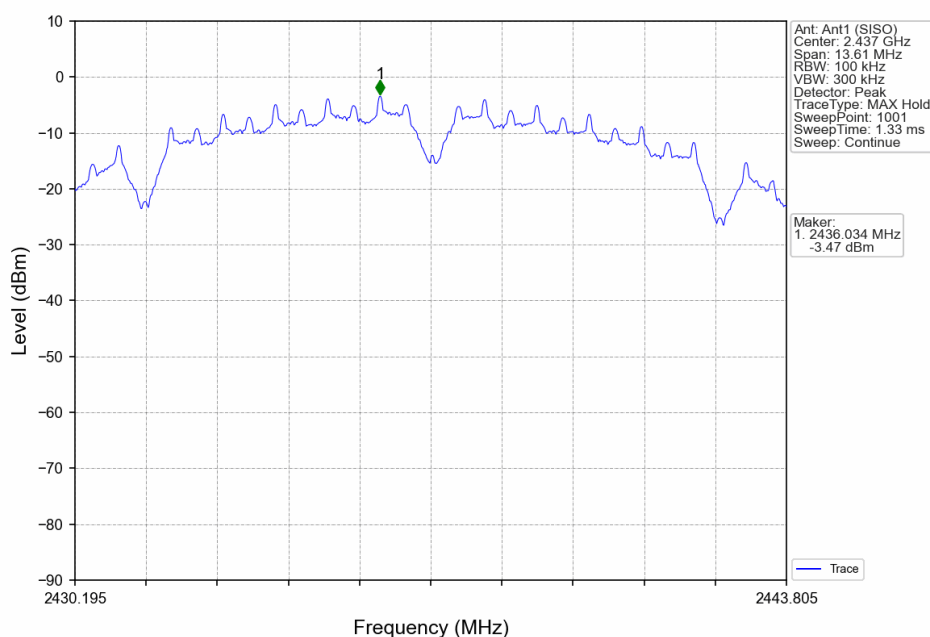
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

### 5.1.2 Test Graph

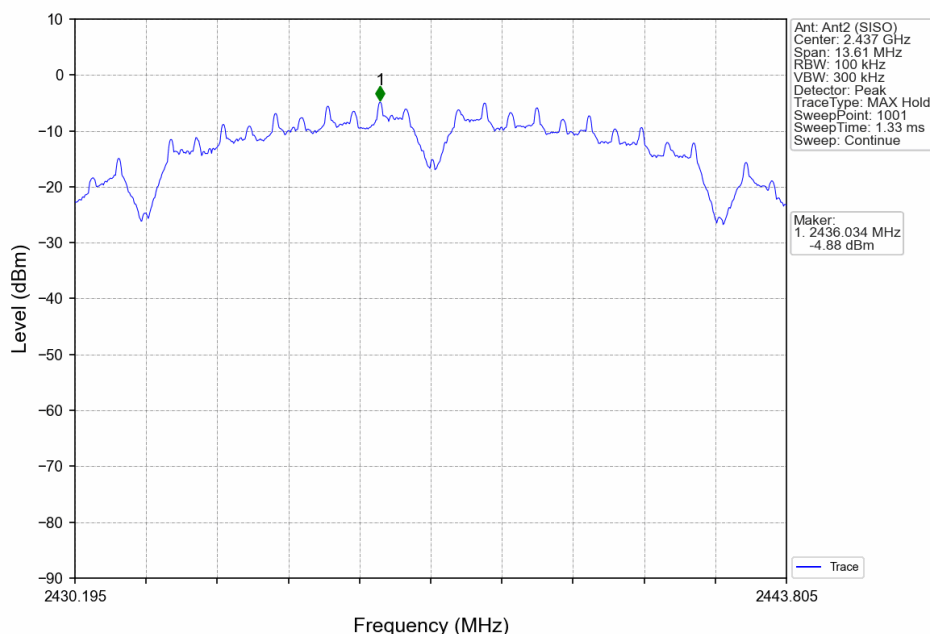




802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



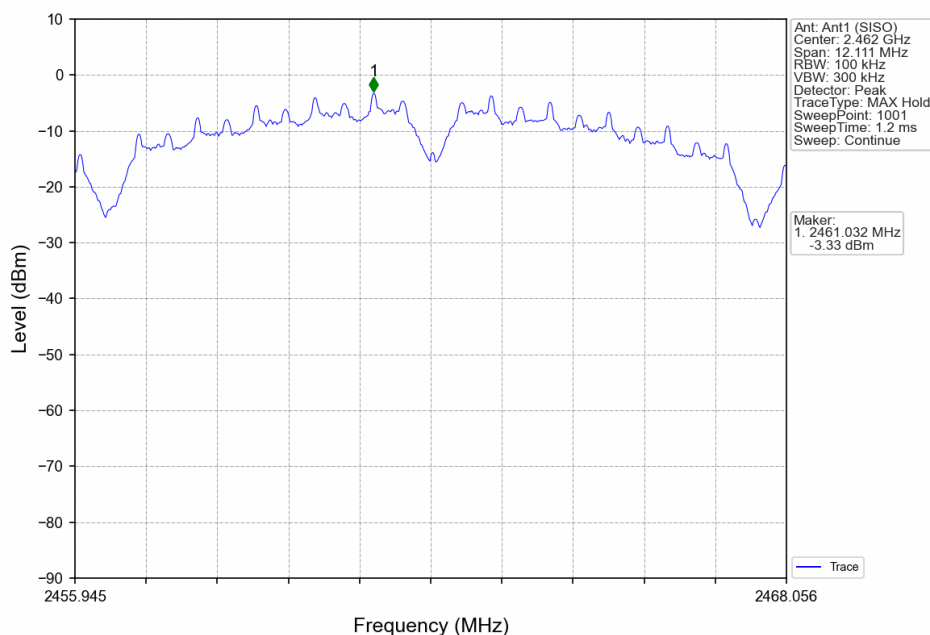
802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



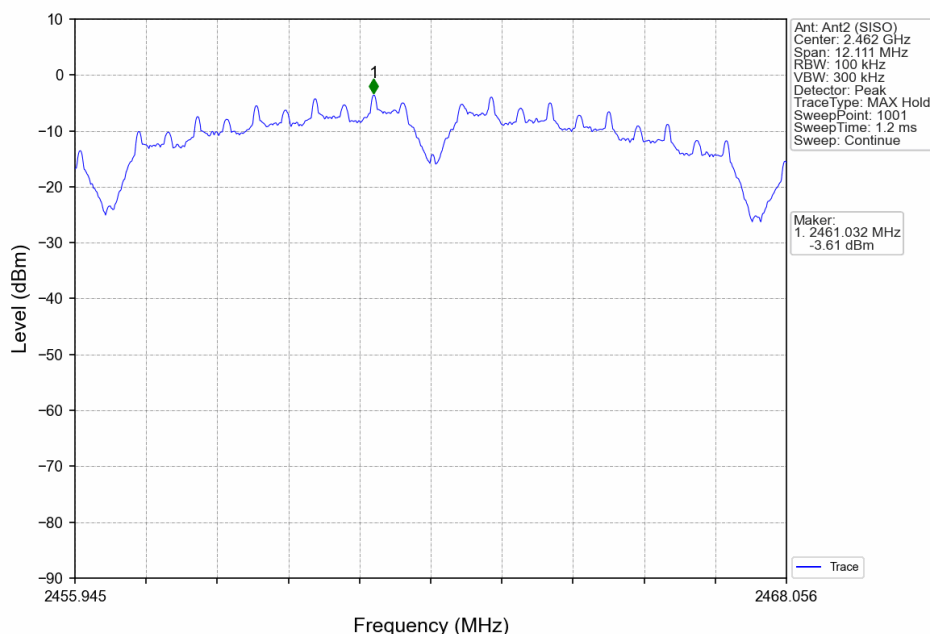
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



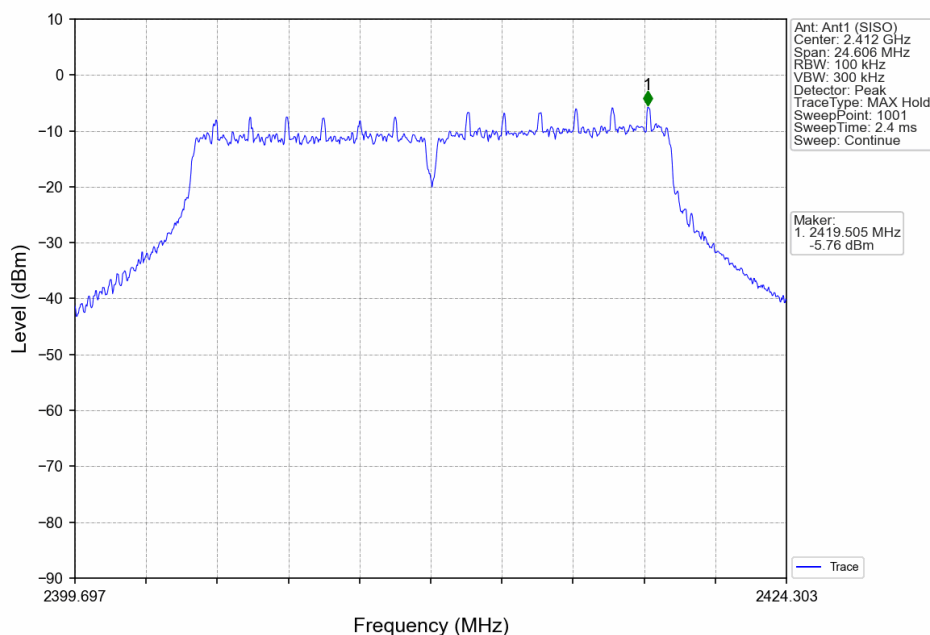
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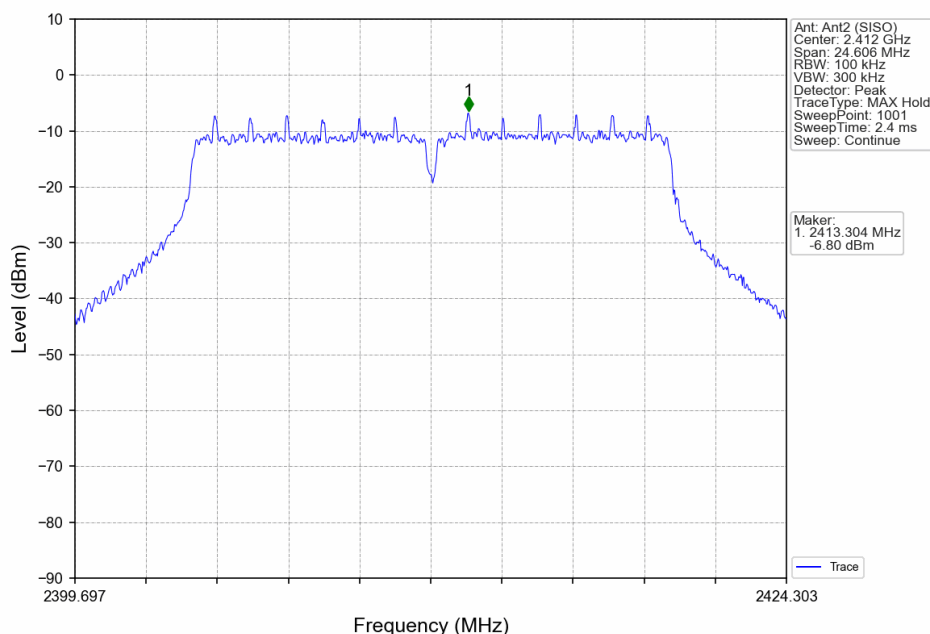
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### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



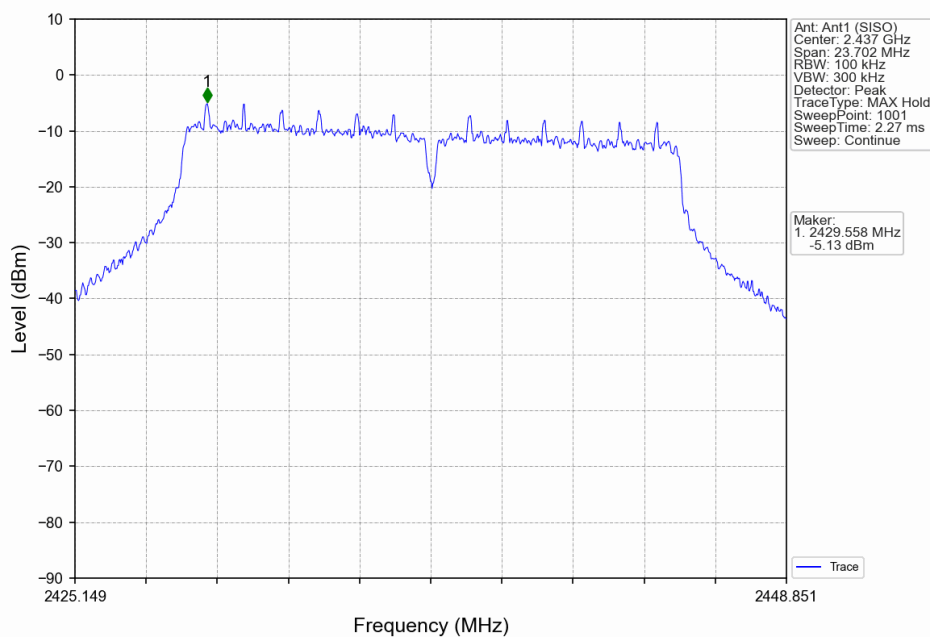
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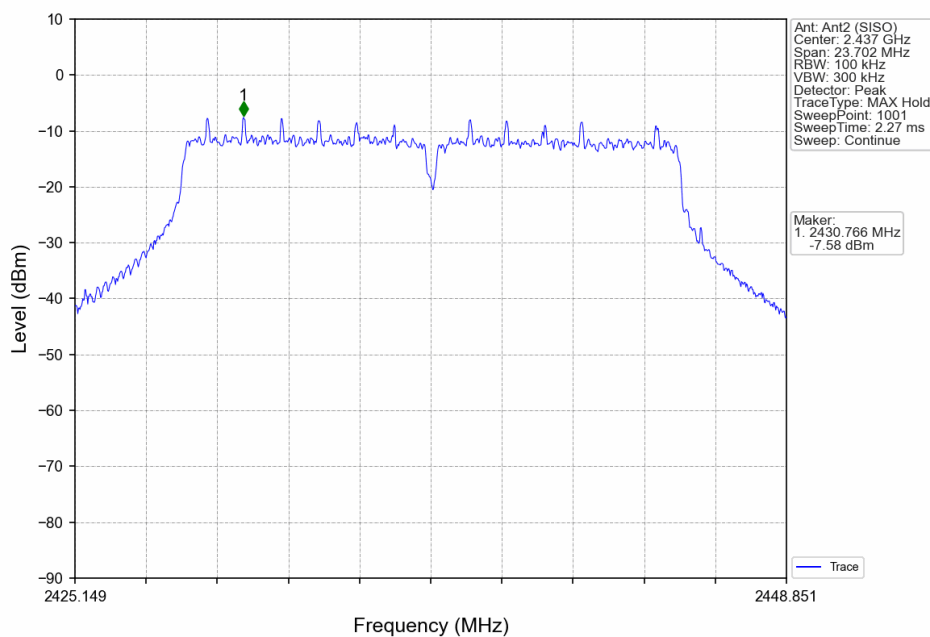
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

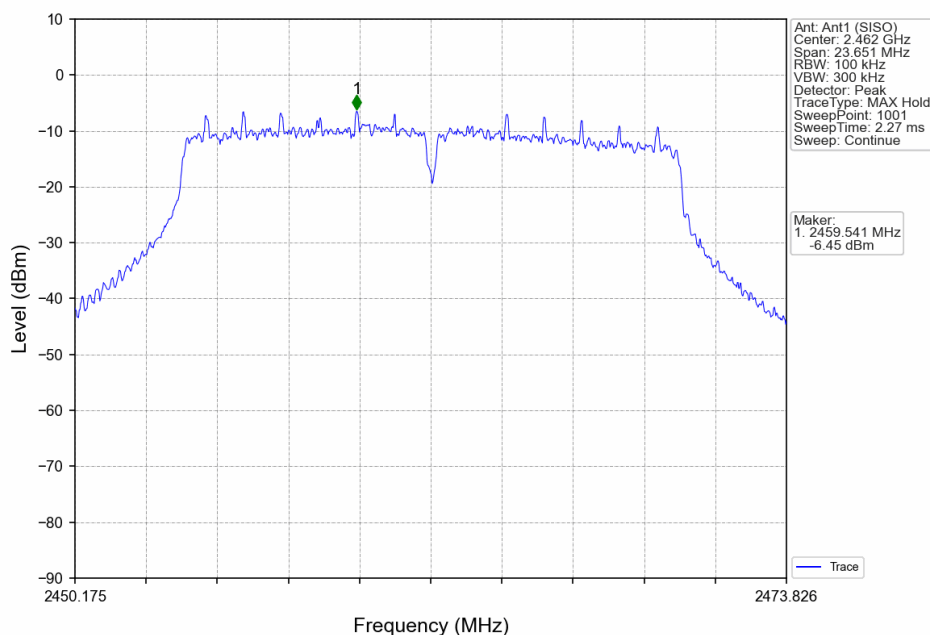


802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV

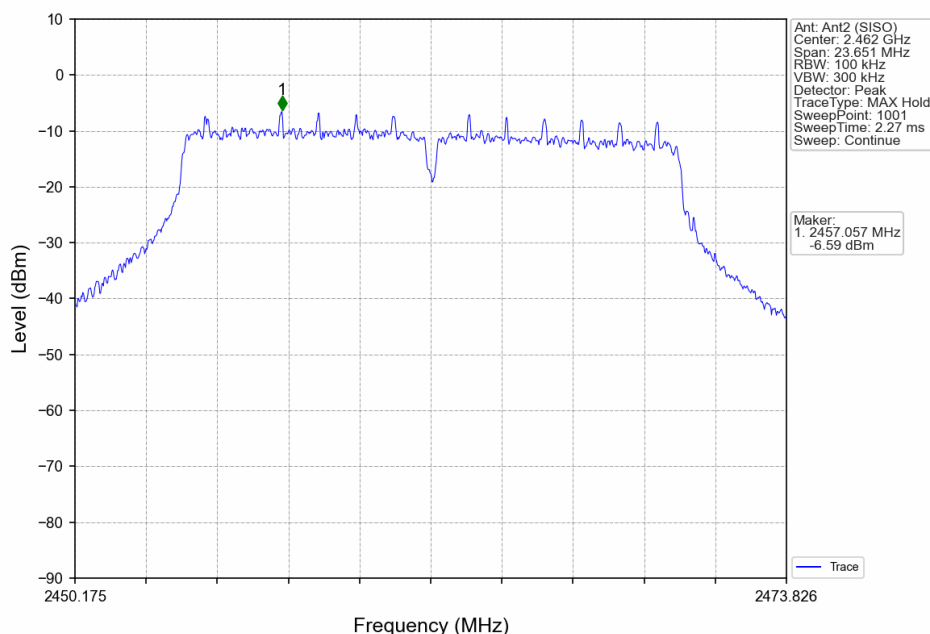




### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



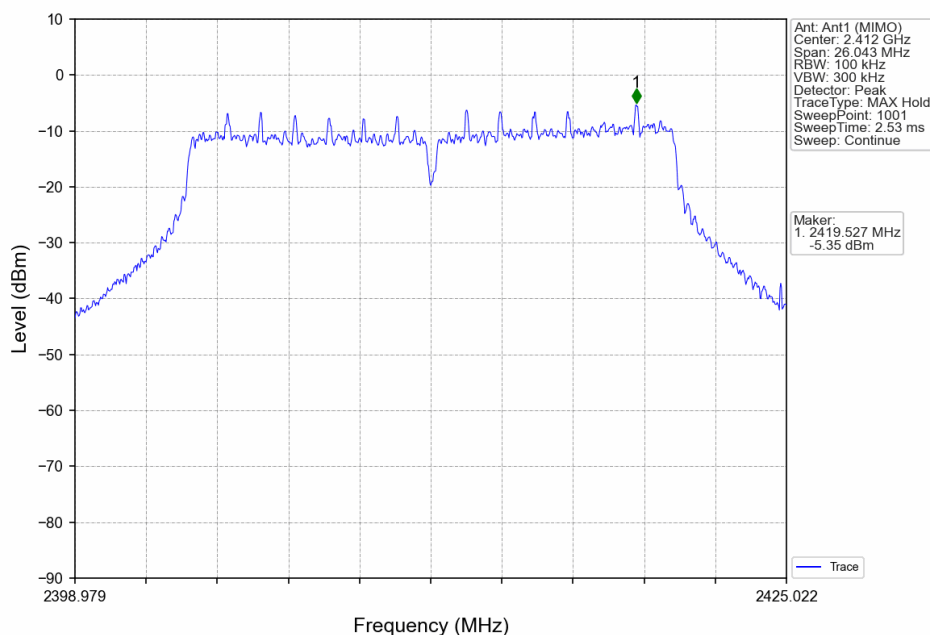
### 802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



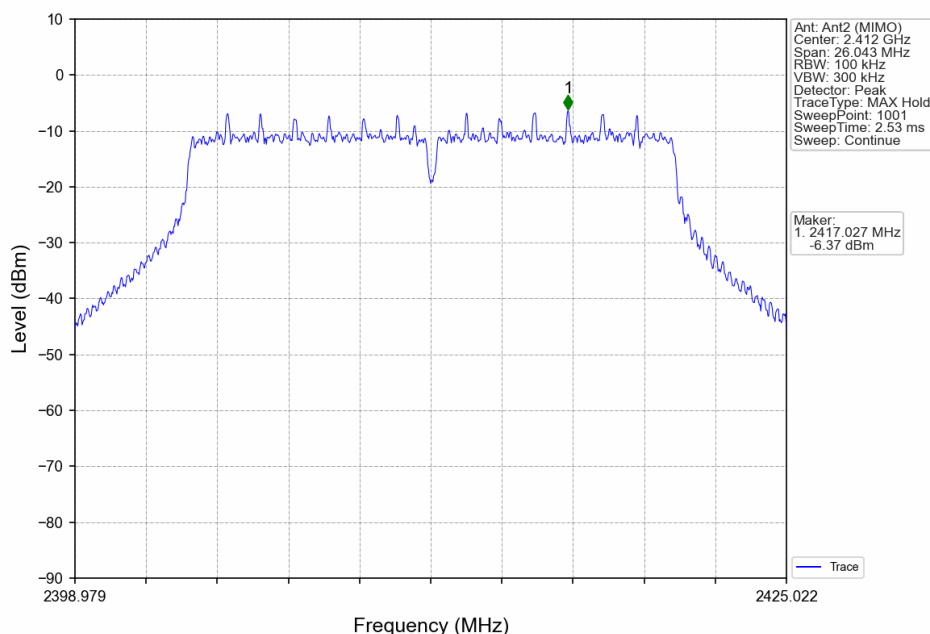
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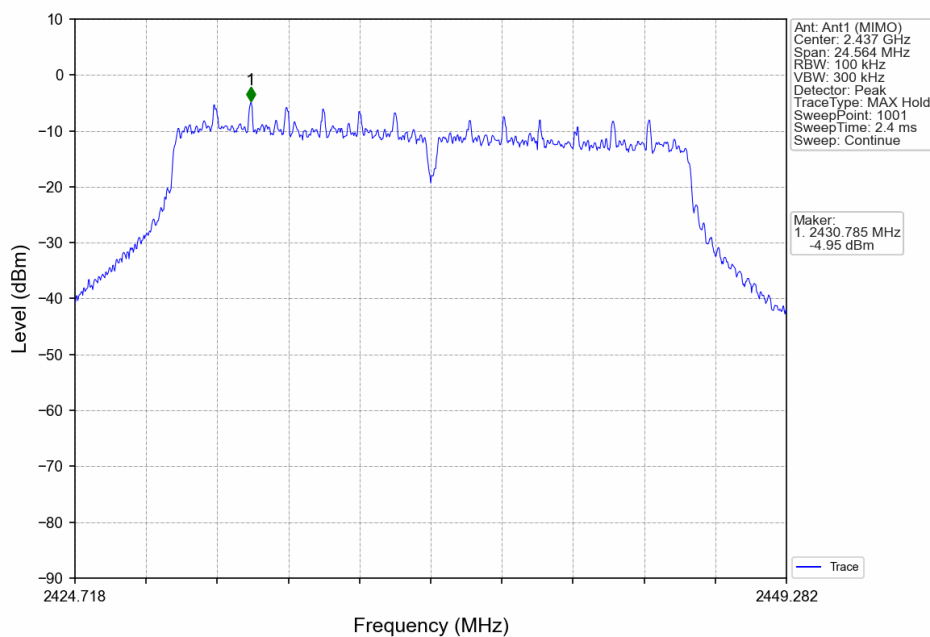
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



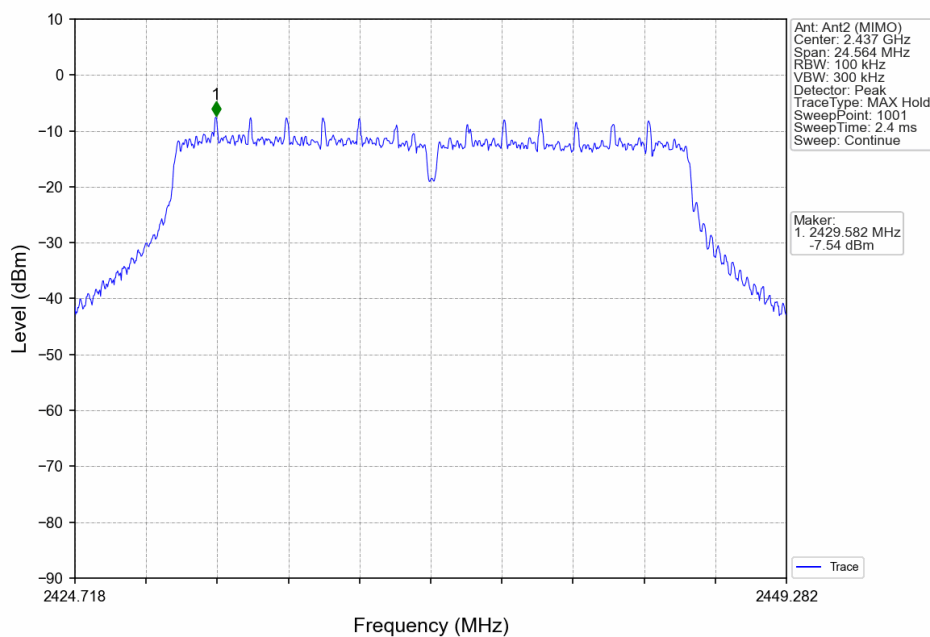
802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



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



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

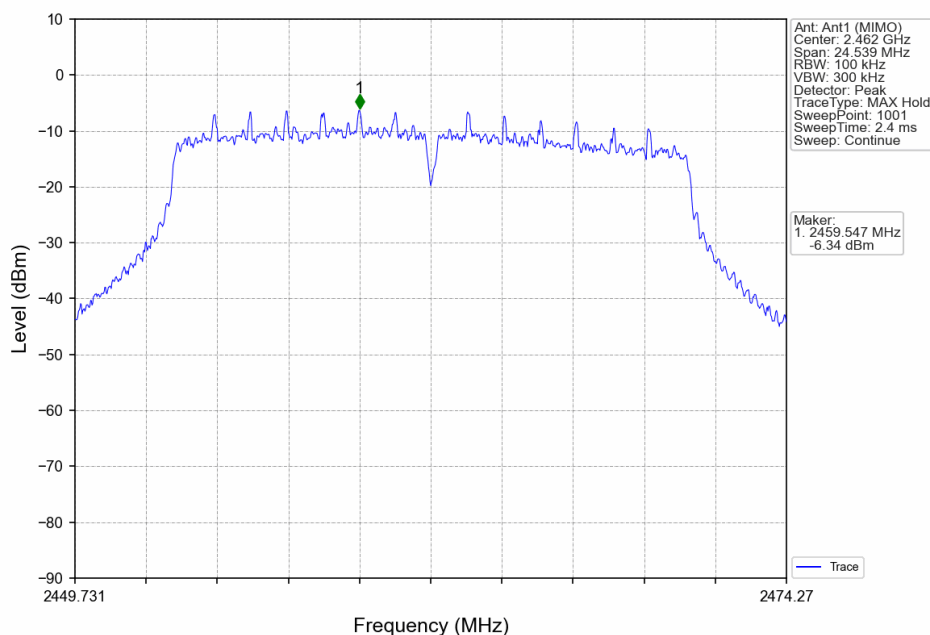


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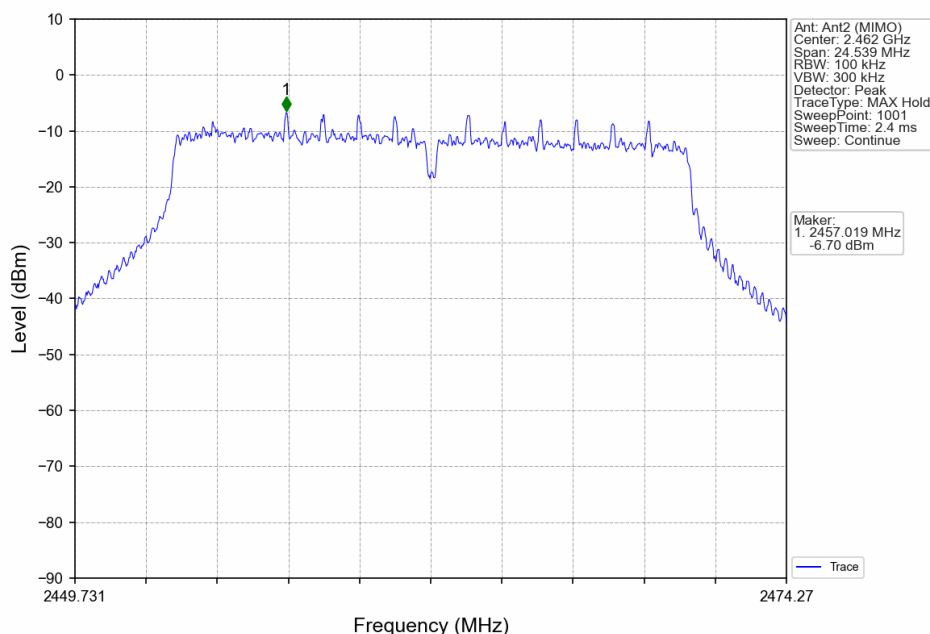
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV

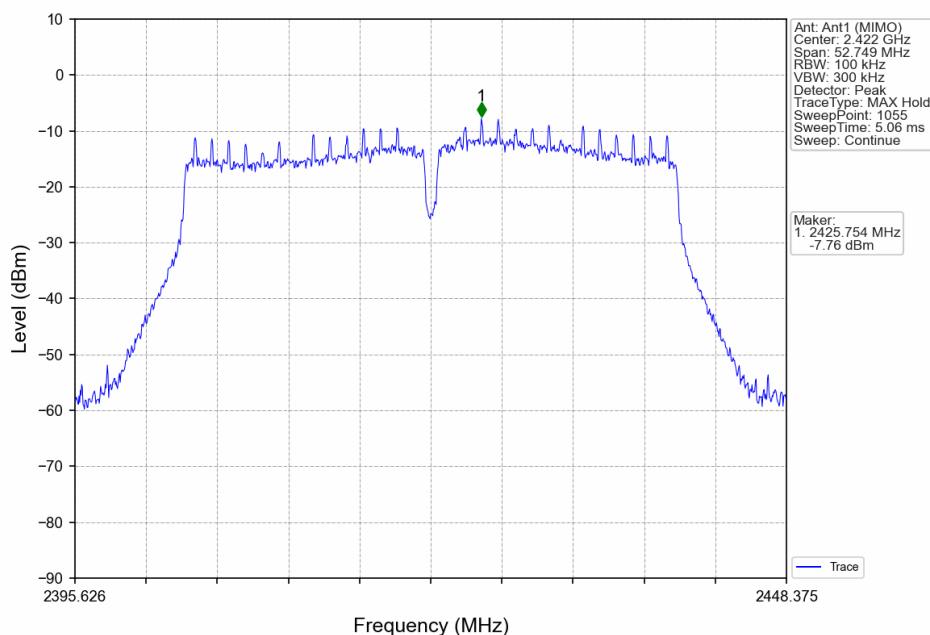


802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV

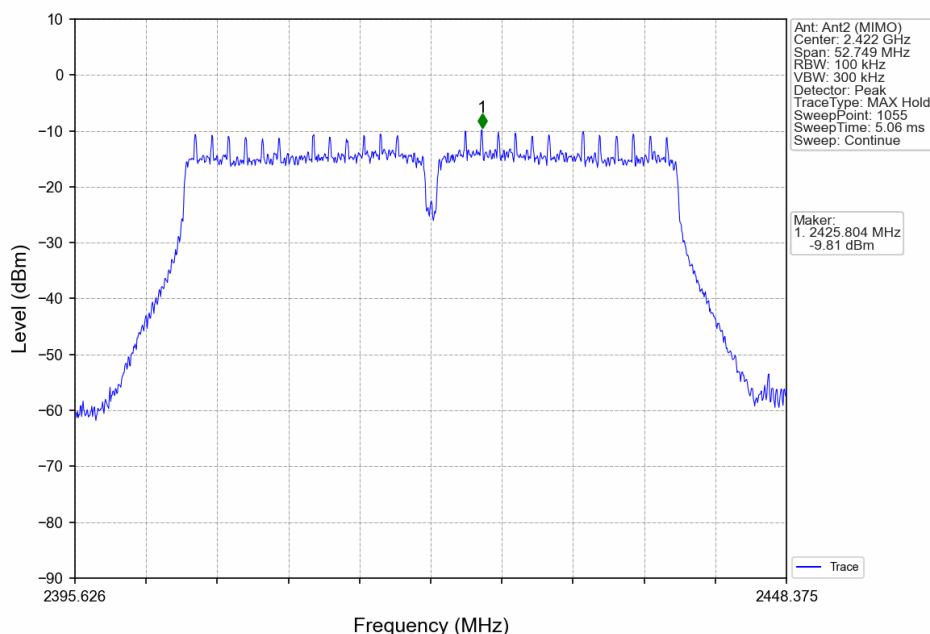




### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



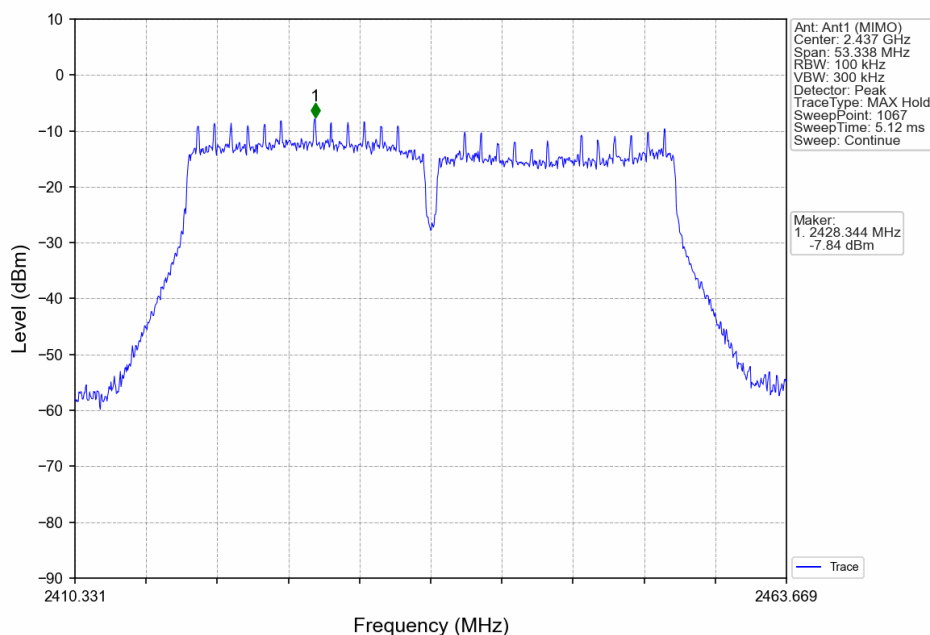
### 802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



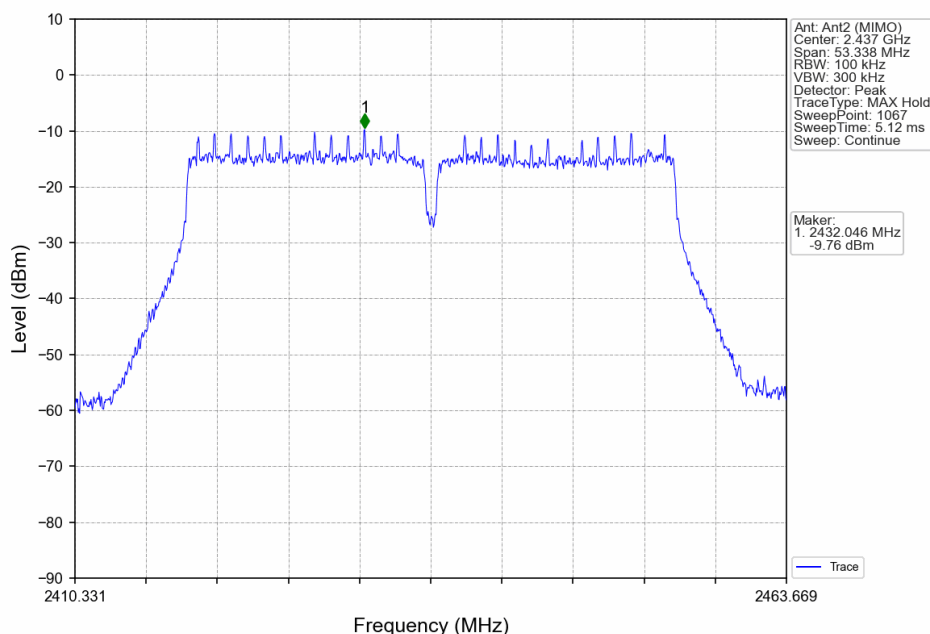
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



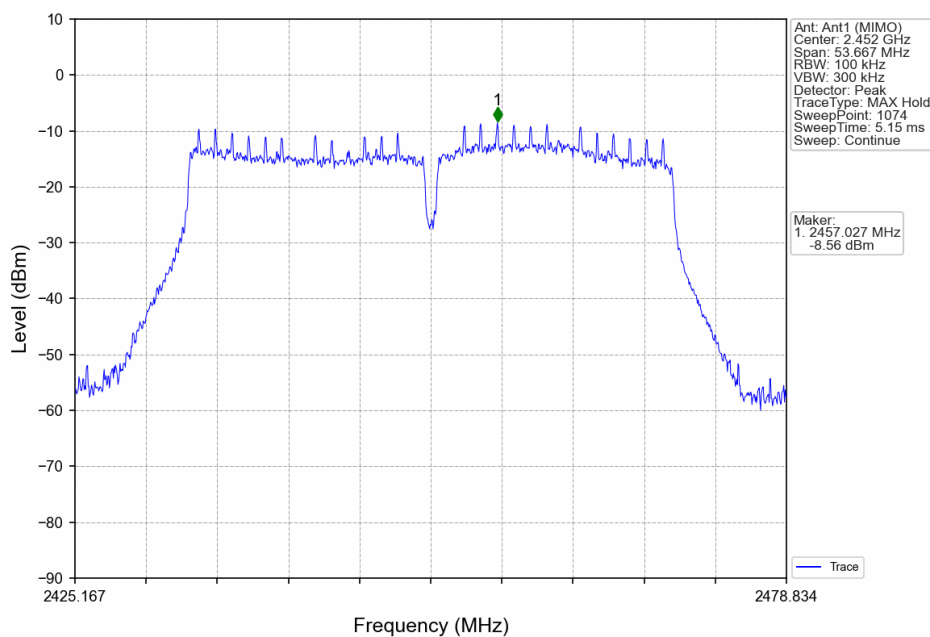
802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



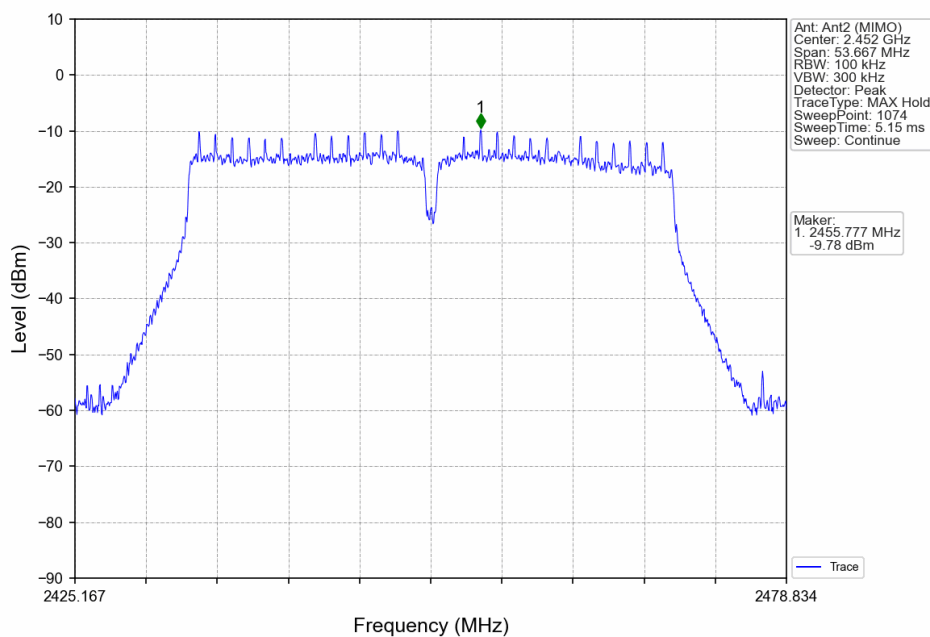
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



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



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### 5.2 CSE

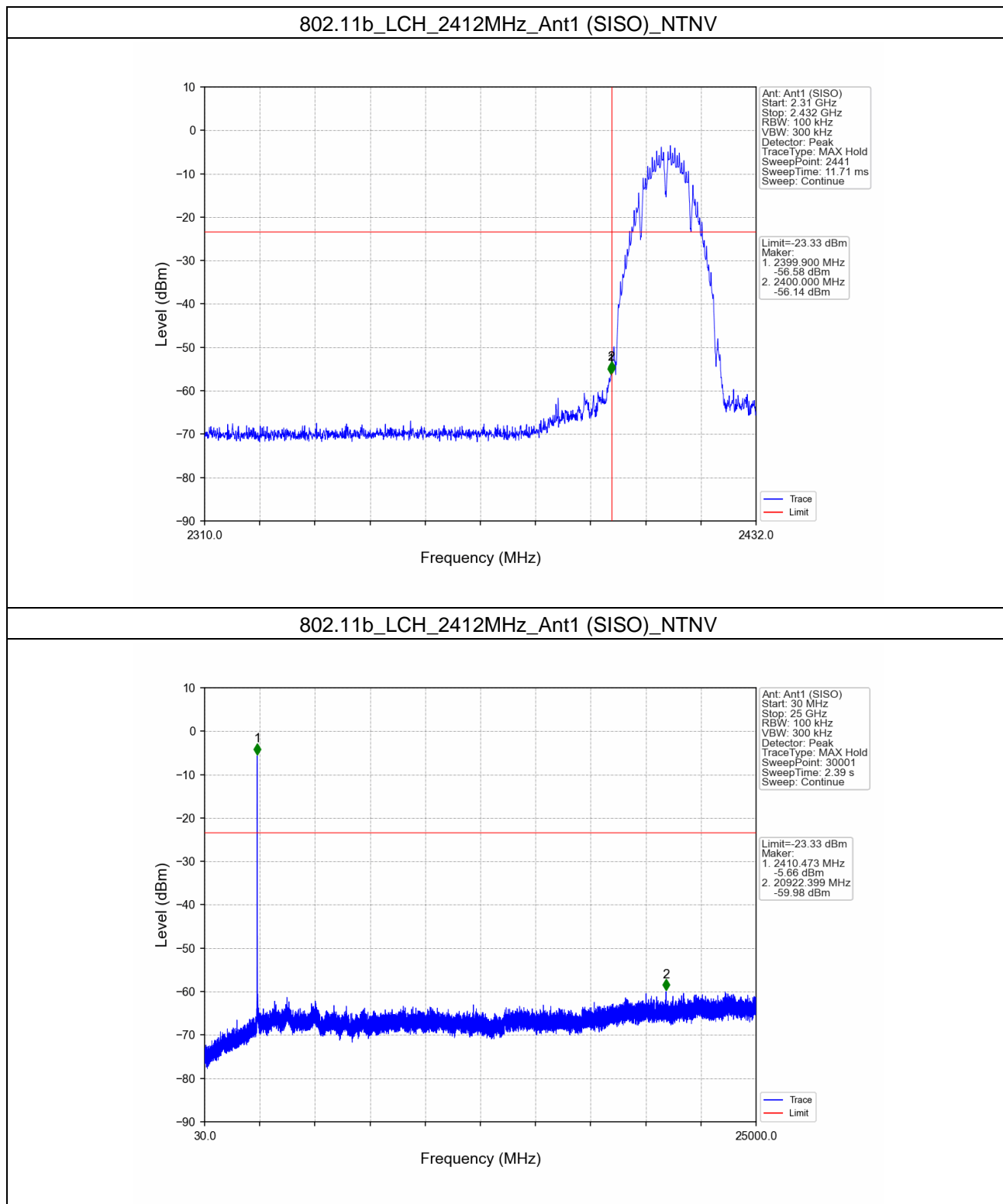
#### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-3.33	-23.33	Pass
			2	-3.61	-23.61	Pass
		2437	1	-3.33	-23.33	Pass
			2	-3.61	-23.61	Pass
		2462	1	-3.33	-23.33	Pass
			2	-3.61	-23.61	Pass
802.11g	SISO	2412	1	-5.13	-25.13	Pass
			2	-6.59	-26.59	Pass
		2437	1	-5.13	-25.13	Pass
			2	-6.59	-26.59	Pass
		2462	1	-5.13	-25.13	Pass
			2	-6.59	-26.59	Pass
802.11n (HT20)	MIMO	2412	1	-4.95	-24.95	Pass
			2	-6.37	-26.37	Pass
		2437	1	-4.95	-24.95	Pass
			2	-6.37	-26.37	Pass
		2462	1	-4.95	-24.95	Pass
			2	-6.37	-26.37	Pass
802.11n (HT40)	MIMO	2422	1	-7.76	-27.76	Pass
			2	-9.76	-29.76	Pass
		2437	1	-7.76	-27.76	Pass
			2	-9.76	-29.76	Pass
		2452	1	-7.76	-27.76	Pass
			2	-9.76	-29.76	Pass

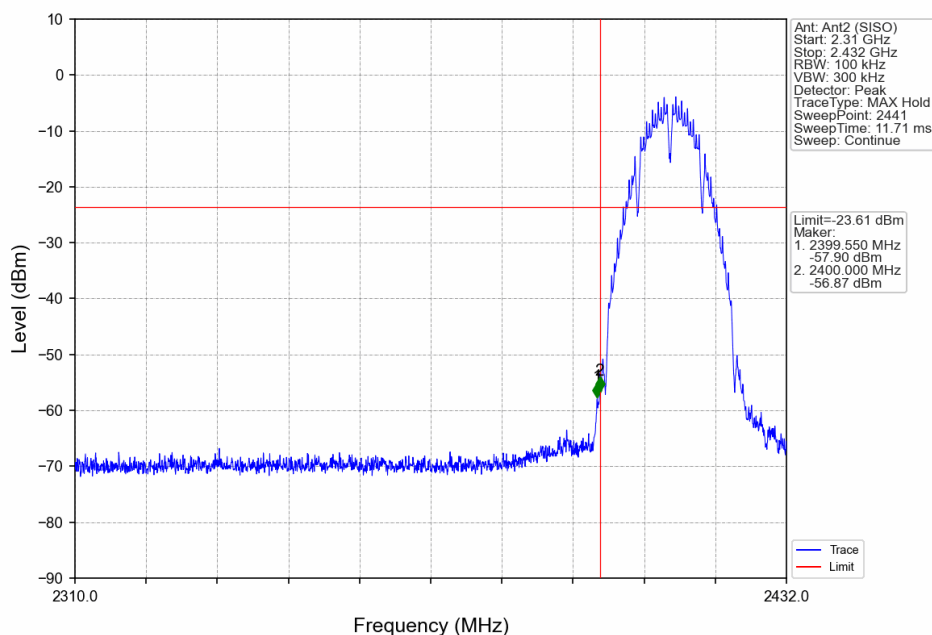
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



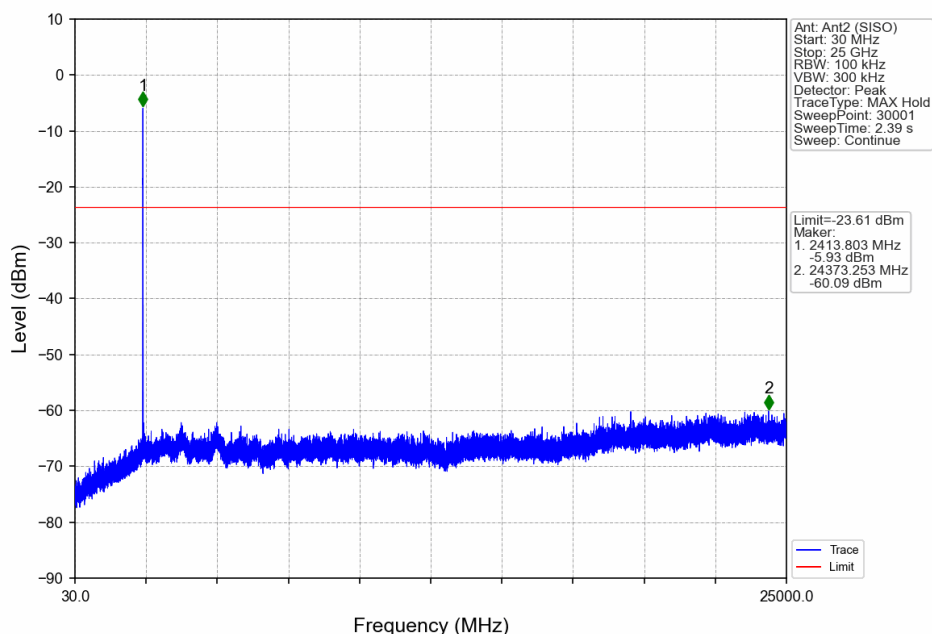
### 5.2.2 Test Graph



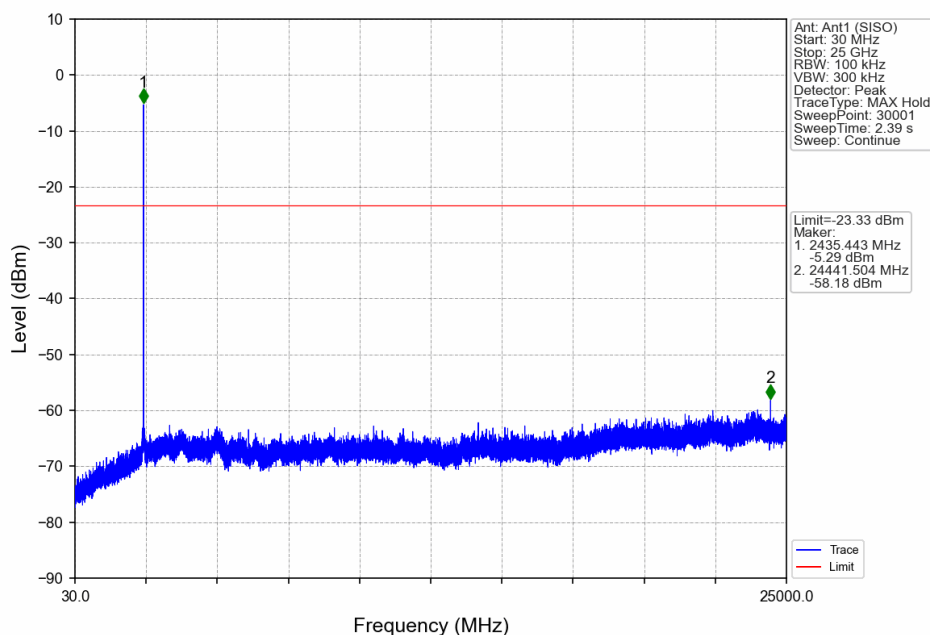
### 802.11b\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



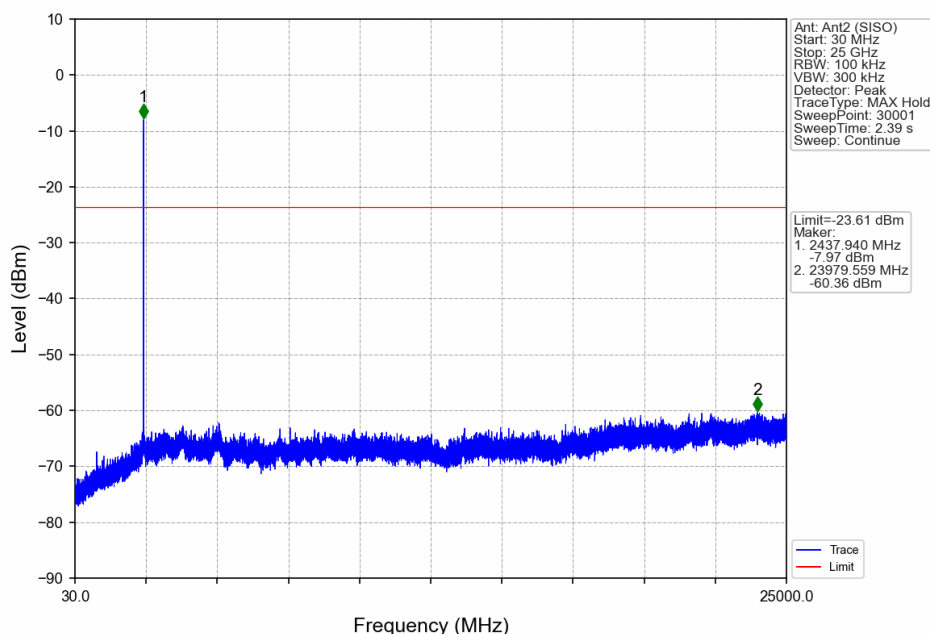
### 802.11b\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



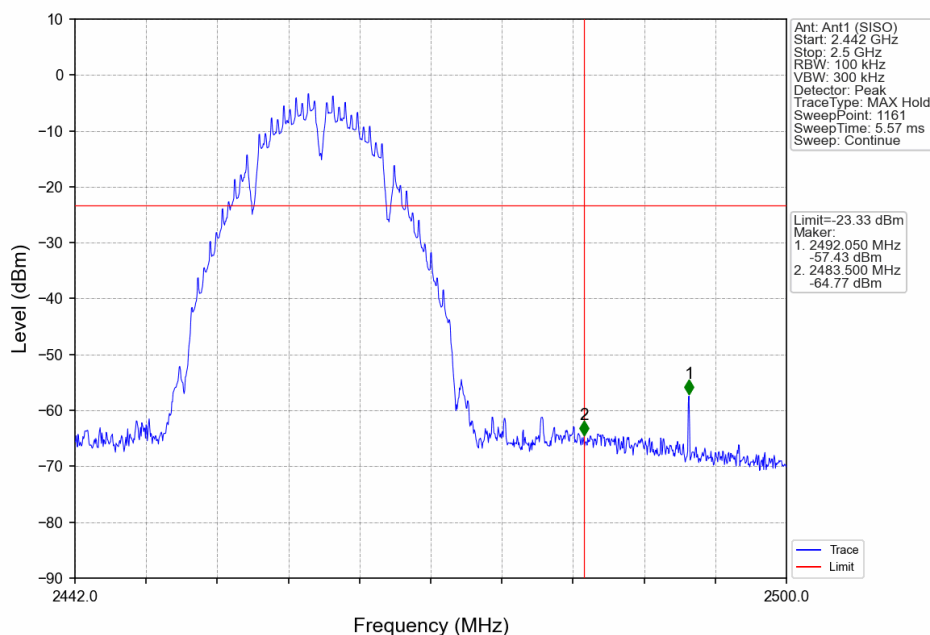
### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

