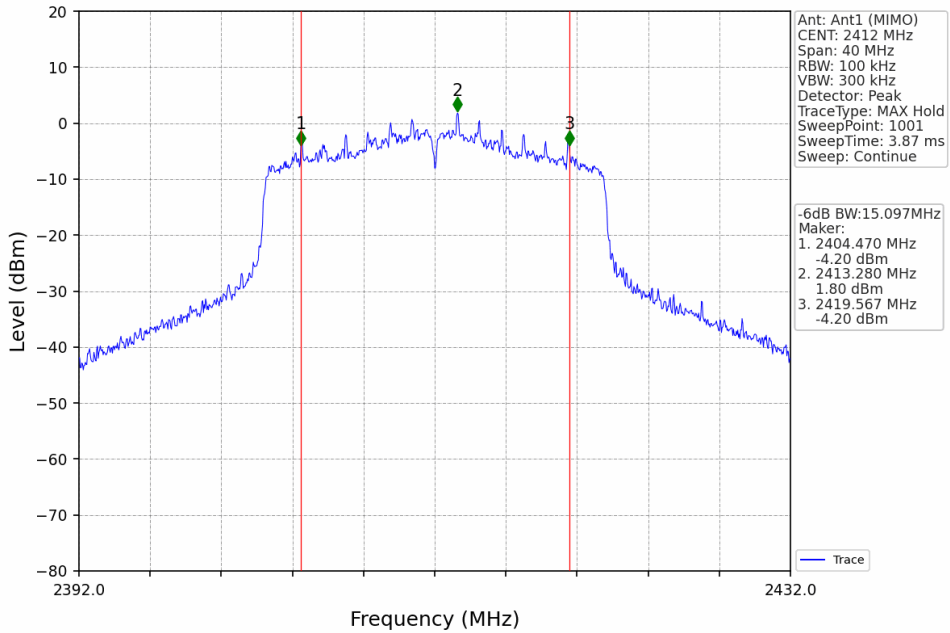
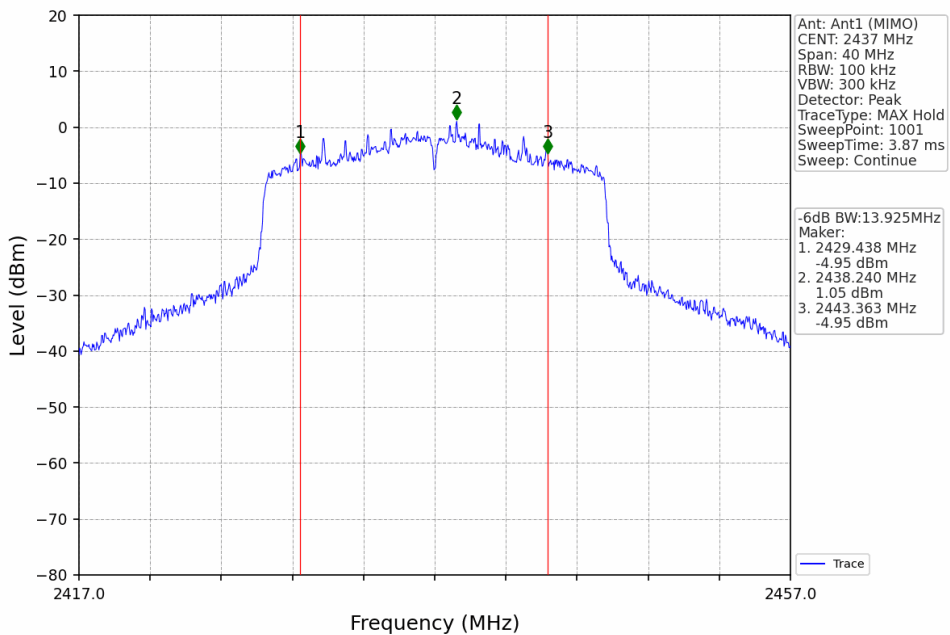


### 802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV



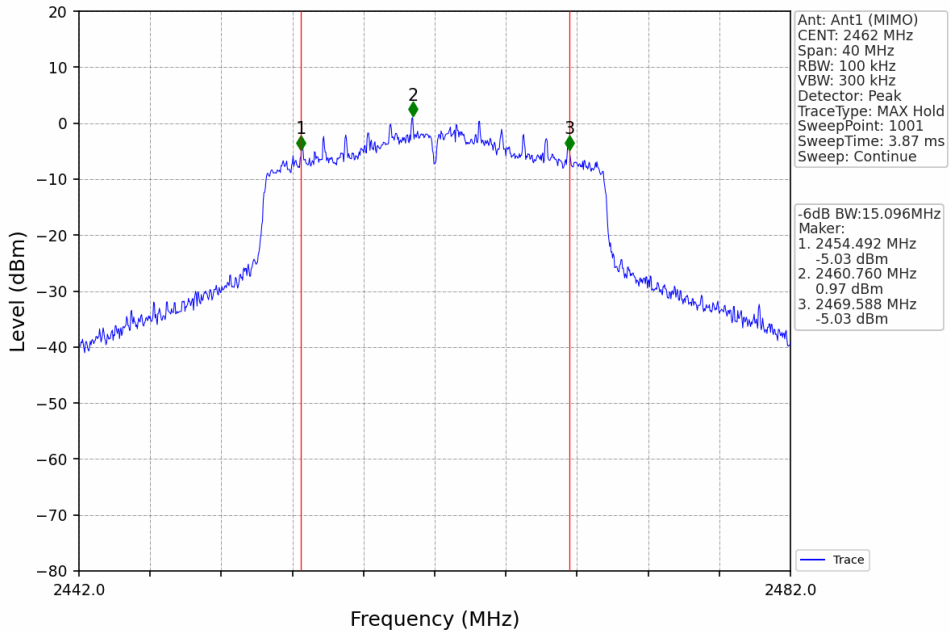
### 802.11ax(HEW20)\_MCH\_2437MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV



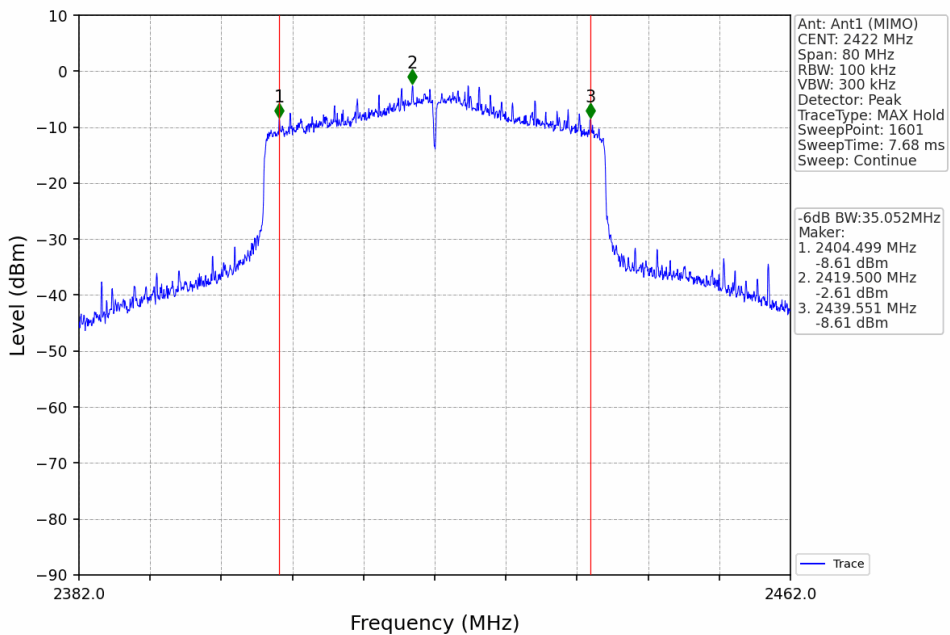
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### 802.11ax(HEW20)\_HCH\_2462MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV

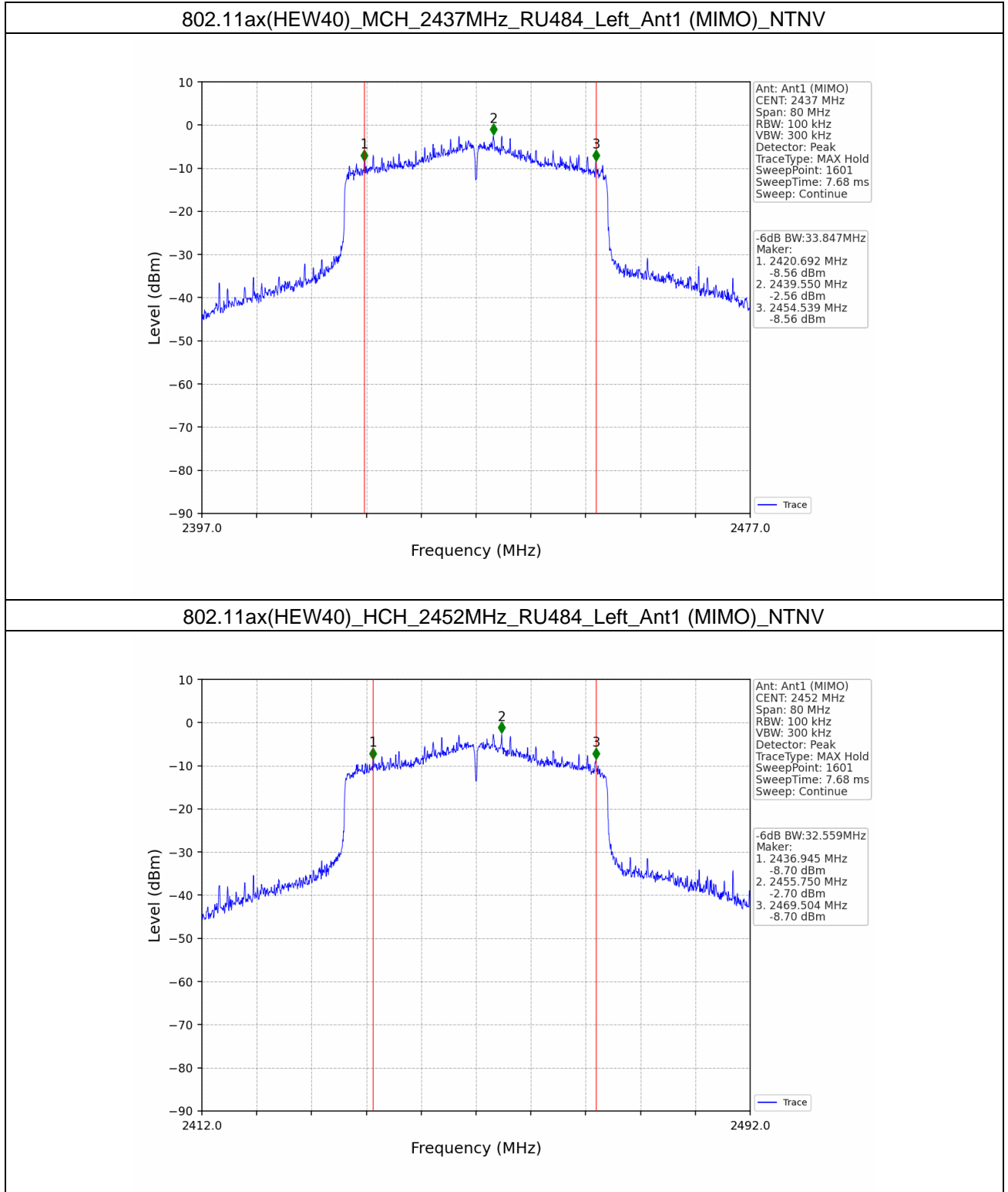


### 802.11ax(HEW40)\_LCH\_2422MHz\_RU484\_Left\_Ant1 (MIMO)\_NTNV



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### 3. Maximum Conducted Output Power

#### 3.1 Test Result

##### 3.1.1 Power

| Mode             | TX Type | Frequency (MHz) | RU    | RU Pos | Maximum Average Conducted Output Power (dBm) |       |       |       | Verdict |
|------------------|---------|-----------------|-------|--------|--|-------|-------|-------|---------|
|                  |         |                 |       |        | ANT1   | ANT2  | MIMO  | Limit |         |
| 802.11b          | SISO    | 2412            | /     | /      | 9.40   | 9.91  | /     | <=30  | Pass    |
|                  |         | 2437            | /     | /      | 9.69   | 10.11 | /     | <=30  | Pass    |
|                  |         | 2462            | /     | /      | 10.27  | 10.27 | /     | <=30  | Pass    |
| 802.11g          | SISO    | 2412            | /     | /      | 12.19  | 12.23 | /     | <=30  | Pass    |
|                  |         | 2437            | /     | /      | 11.83  | 12.43 | /     | <=30  | Pass    |
|                  |         | 2462            | /     | /      | 11.38  | 12.26 | /     | <=30  | Pass    |
| 802.11n (HT20)   | MIMO    | 2412            | /     | /      | 10.78  | 10.99 | 13.90 | <=30  | Pass    |
|                  |         | 2437            | /     | /      | 10.51  | 11.02 | 13.78 | <=30  | Pass    |
|                  |         | 2462            | /     | /      | 10.28  | 11.05 | 13.69 | <=30  | Pass    |
| 802.11n (HT40)   | MIMO    | 2422            | /     | /      | 7.85   | 8.49  | 11.19 | <=30  | Pass    |
|                  |         | 2437            | /     | /      | 8.07   | 8.51  | 11.31 | <=30  | Pass    |
|                  |         | 2452            | /     | /      | 8.39   | 8.75  | 11.58 | <=30  | Pass    |
| 802.11ax (HEW20) | MIMO    | 2412            | RU242 | Left   | 10.22  | 10.47 | 13.36 | <=30  | Pass    |
|                  |         | 2437            | RU242 | Left   | 10.14  | 10.88 | 13.54 | <=30  | Pass    |
|                  |         | 2462            | RU242 | Left   | 9.83   | 10.74 | 13.32 | <=30  | Pass    |
| 802.11ax (HEW40) | MIMO    | 2422            | RU484 | Left   | 7.62   | 8.08  | 10.87 | <=30  | Pass    |
|                  |         | 2437            | RU484 | Left   | 7.97   | 8.29  | 11.14 | <=30  | Pass    |
|                  |         | 2452            | RU484 | Left   | 8.17   | 8.38  | 11.29 | <=30  | Pass    |



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## 4. Maximum Power Spectral Density

### 4.1 Test Result

#### 4.1.1 PSD

| Mode             | TX Type | Frequency (MHz) | RU    | RU Pos | Maximum PSD (dBm/3kHz) |        |        |       | Verdict |
|------------------|---------|-----------------|-------|--------|------------------------|--------|--------|-------|---------|
|                  |         |                 |       |        | ANT1                   | ANT2   | MIMO   | Limit |         |
| 802.11b          | SISO    | 2412            | /     | /      | -12.33                 | -13.36 | /      | <=8   | Pass    |
|                  |         | 2437            | /     | /      | -13.34                 | -11.84 | /      | <=8   | Pass    |
|                  |         | 2462            | /     | /      | -13.32                 | -12.29 | /      | <=8   | Pass    |
| 802.11g          | SISO    | 2412            | /     | /      | -13.51                 | -13.99 | /      | <=8   | Pass    |
|                  |         | 2437            | /     | /      | -13.73                 | -13.33 | /      | <=8   | Pass    |
|                  |         | 2462            | /     | /      | -14.59                 | -14.34 | /      | <=8   | Pass    |
| 802.11n (HT20)   | MIMO    | 2412            | /     | /      | -12.93                 | -13.33 | -10.94 | <=8   | Pass    |
|                  |         | 2437            | /     | /      | -13.09                 | -13.24 | -10.43 | <=8   | Pass    |
|                  |         | 2462            | /     | /      | -13.58                 | -13.00 | -11.00 | <=8   | Pass    |
| 802.11n (HT40)   | MIMO    | 2422            | /     | /      | -18.98                 | -17.55 | -15.91 | <=8   | Pass    |
|                  |         | 2437            | /     | /      | -18.21                 | -17.74 | -15.82 | <=8   | Pass    |
|                  |         | 2452            | /     | /      | -17.19                 | -16.57 | -14.72 | <=8   | Pass    |
| 802.11ax (HEW20) | MIMO    | 2412            | RU242 | Left   | -13.84                 | -14.25 | -11.58 | <=8   | Pass    |
|                  |         | 2437            | RU242 | Left   | -14.18                 | -14.07 | -12.30 | <=8   | Pass    |
|                  |         | 2462            | RU242 | Left   | -14.27                 | -13.85 | -12.50 | <=8   | Pass    |
| 802.11ax (HEW40) | MIMO    | 2422            | RU484 | Left   | -19.54                 | -19.35 | -16.96 | <=8   | Pass    |
|                  |         | 2437            | RU484 | Left   | -20.08                 | -19.53 | -17.06 | <=8   | Pass    |
|                  |         | 2452            | RU484 | Left   | -18.20                 | -18.94 | -16.66 | <=8   | Pass    |

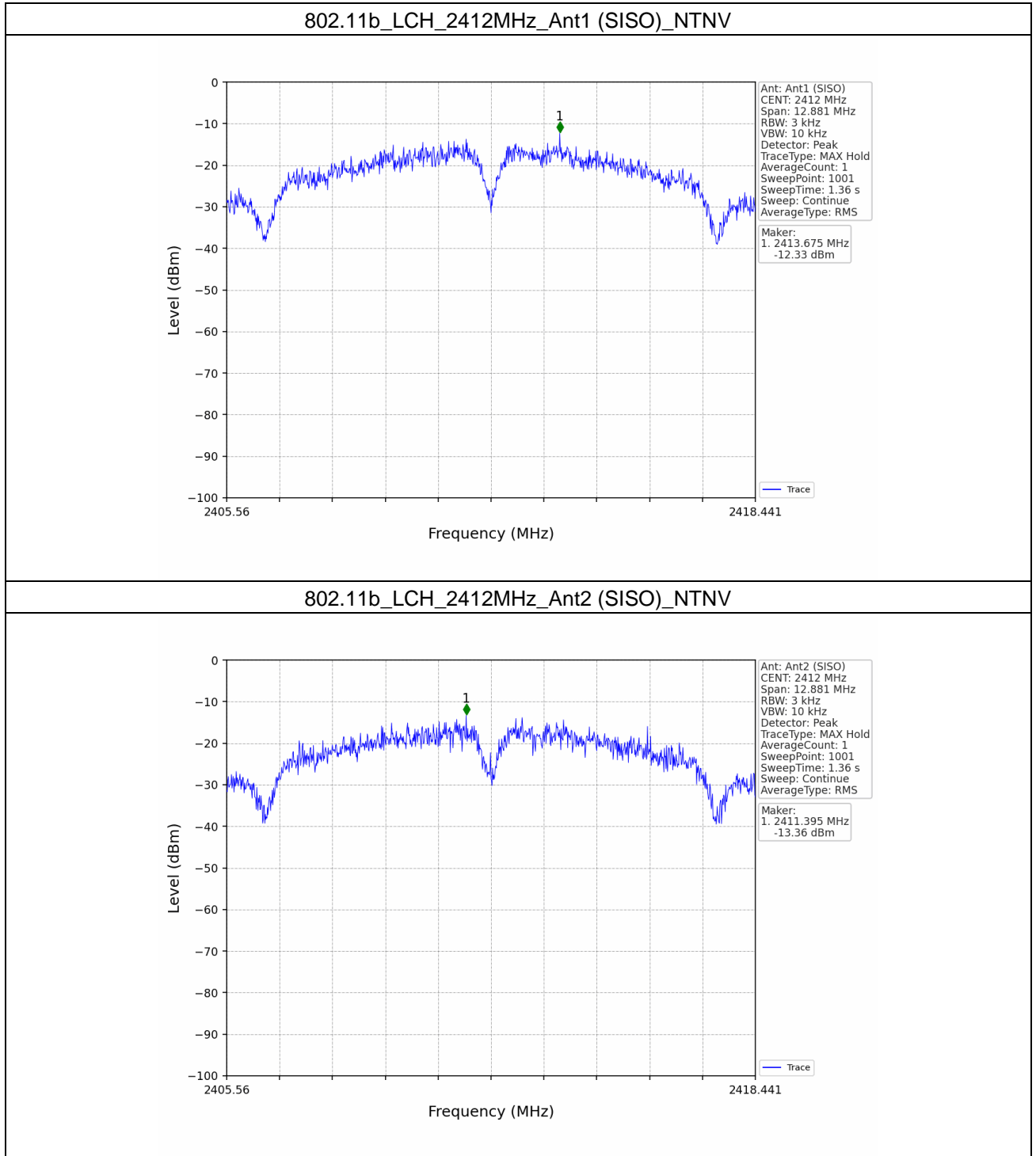


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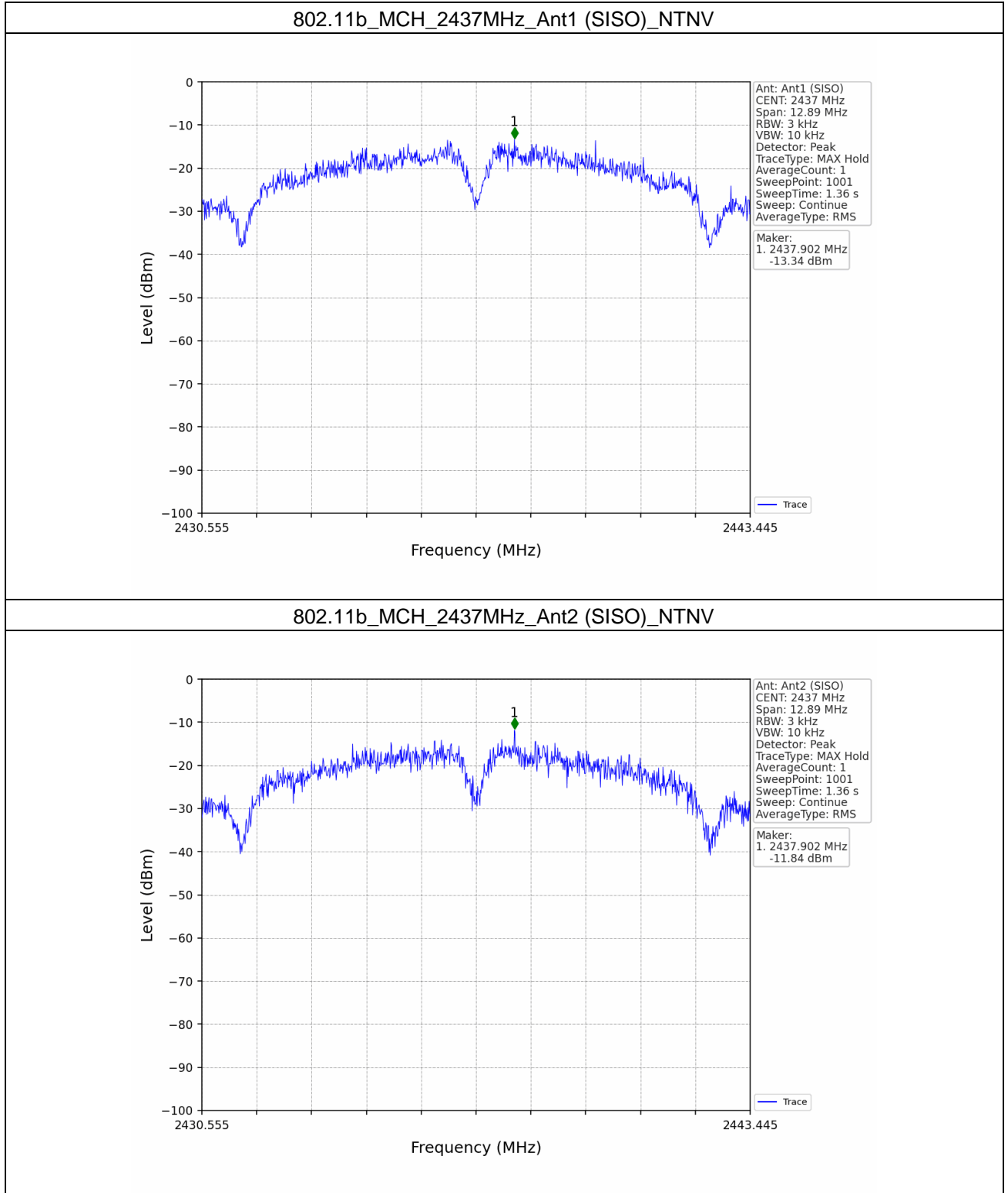
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### 4.2 Test Graph

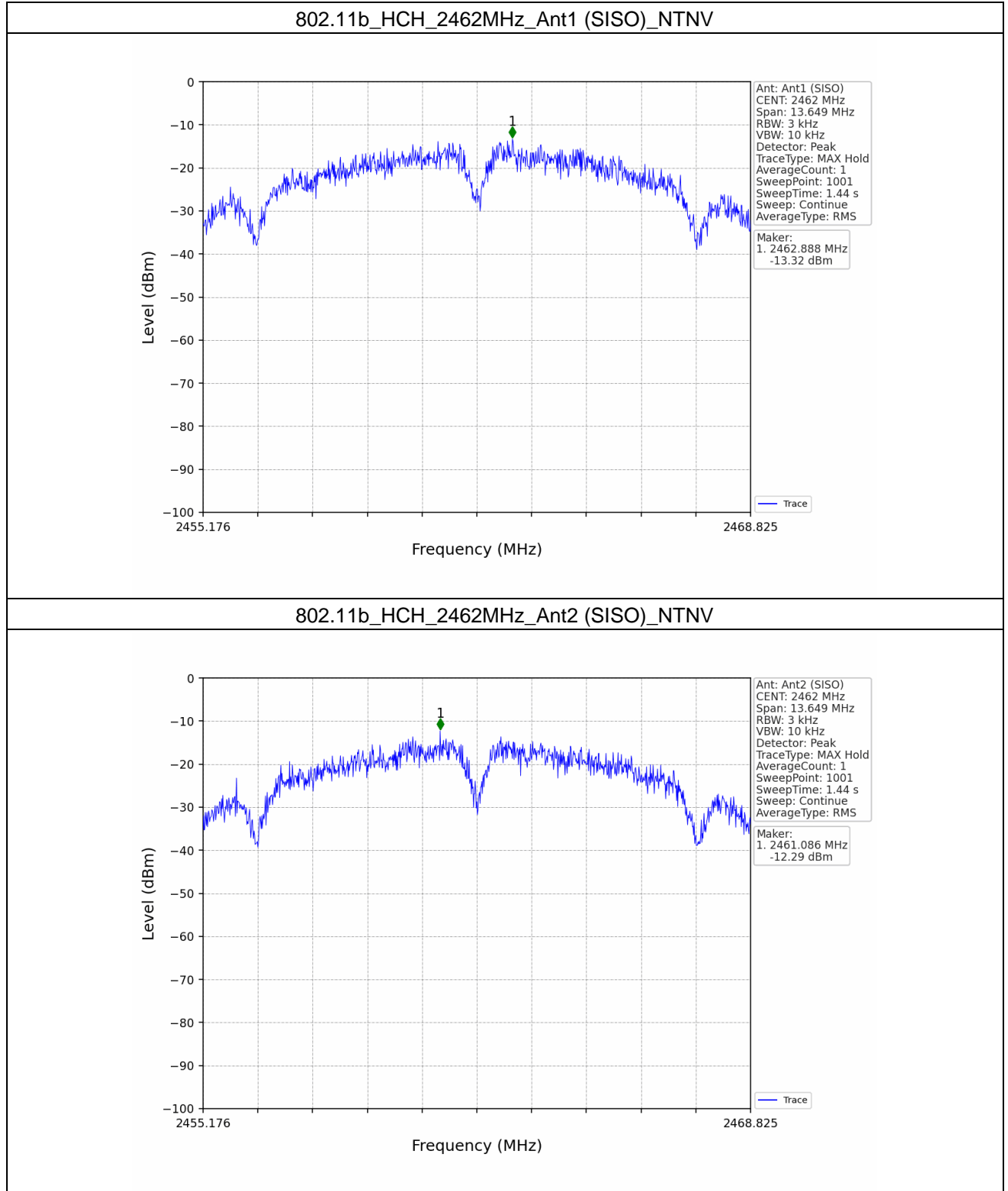
#### 4.2.1 PSD



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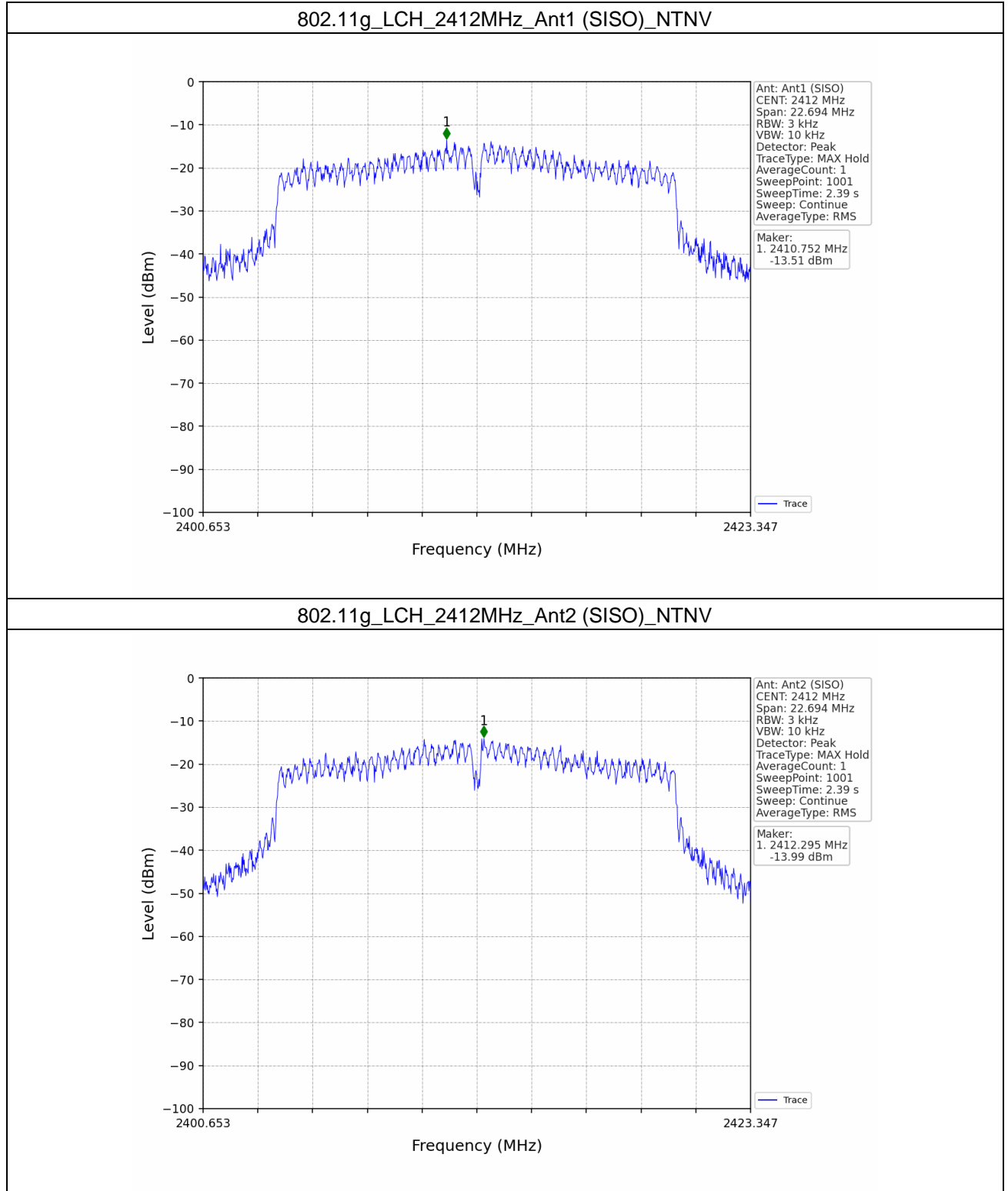
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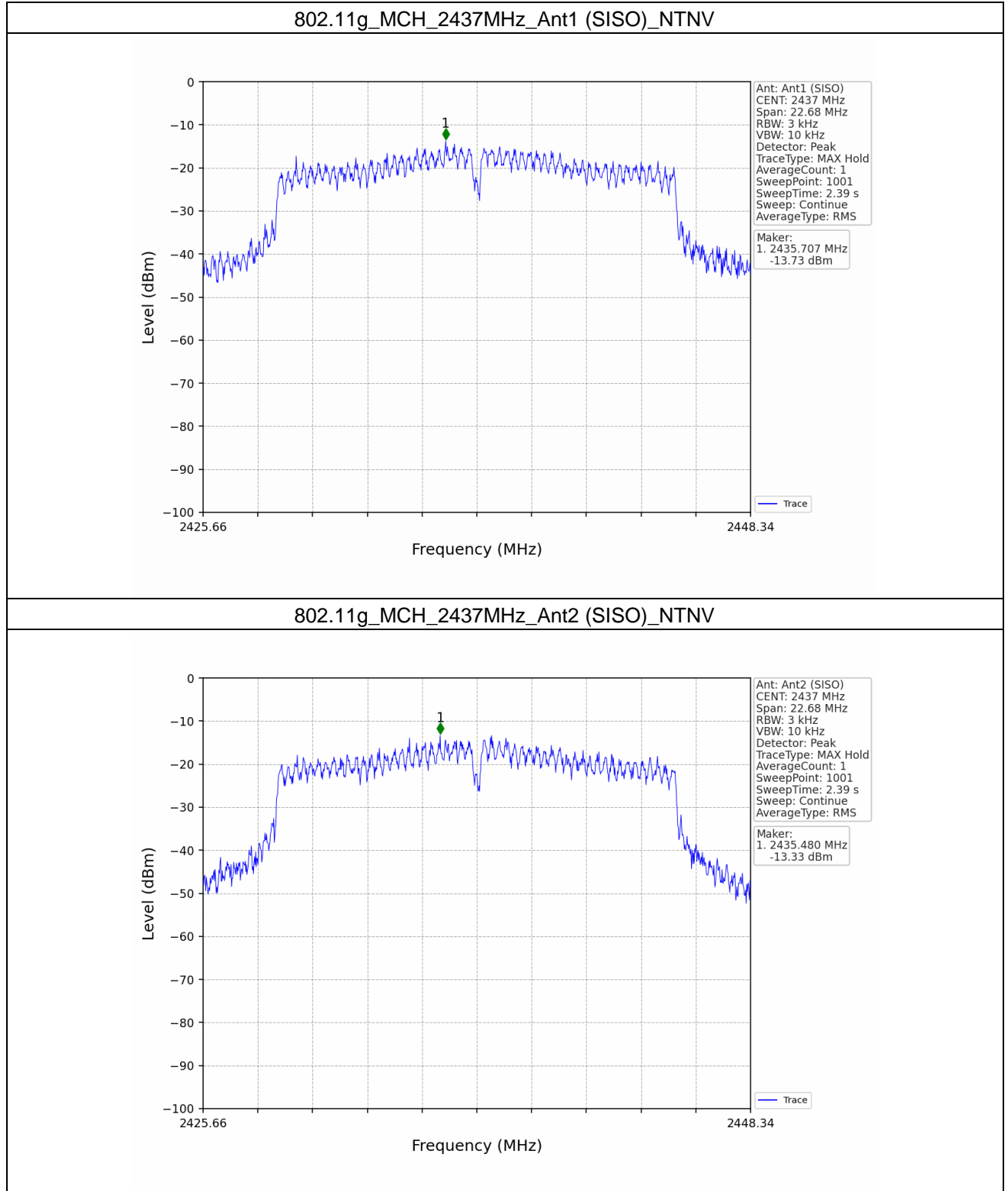
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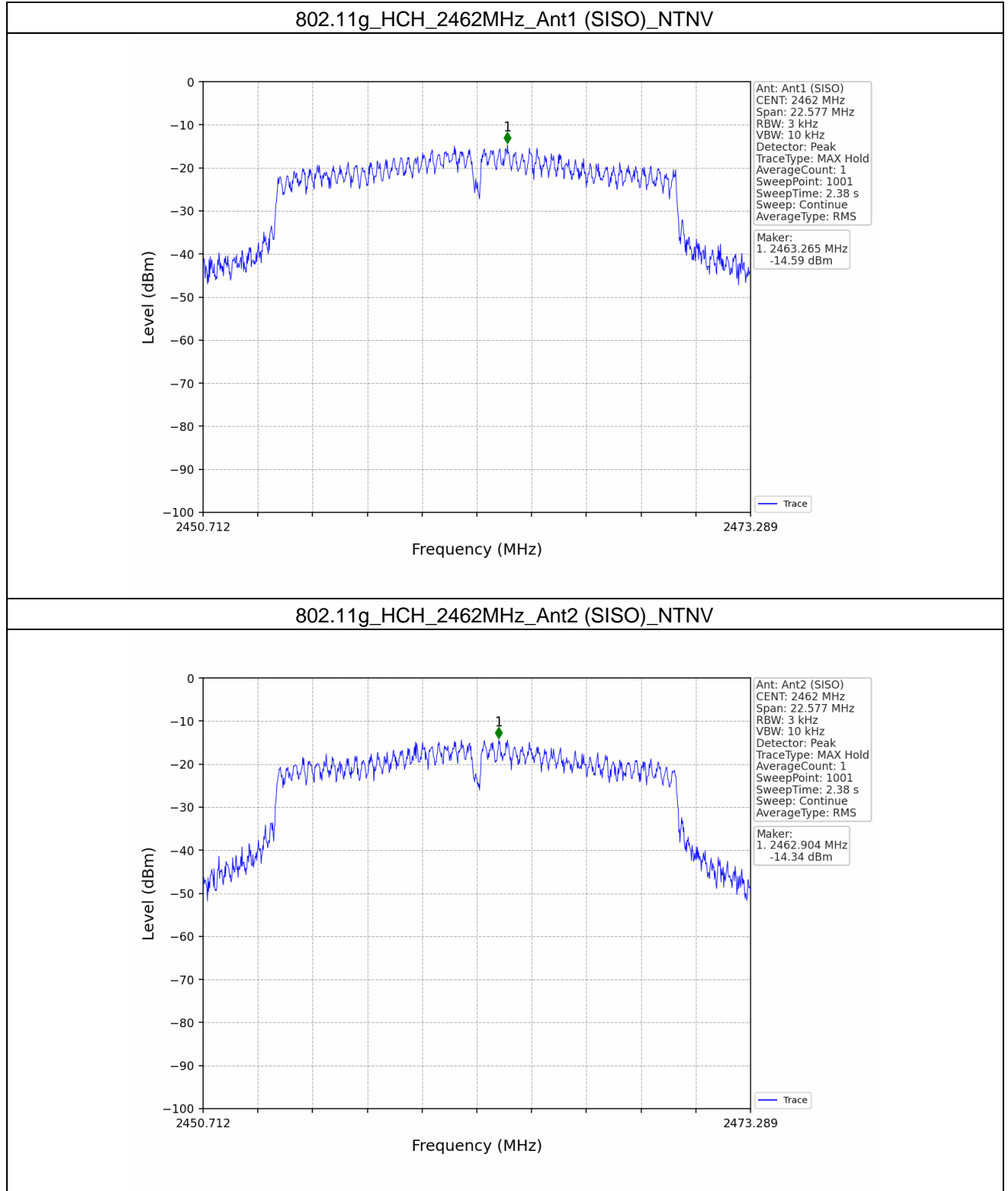


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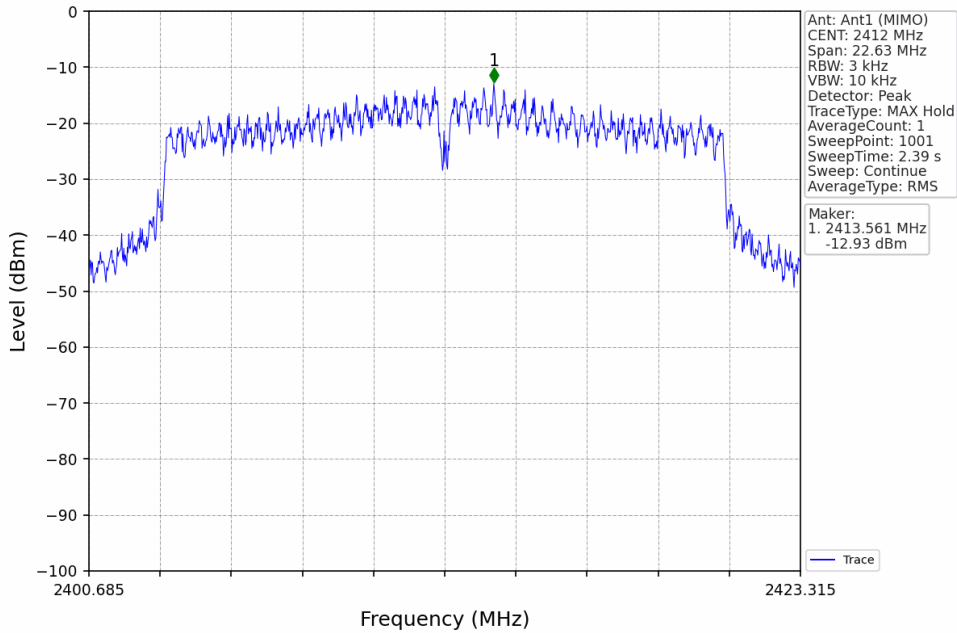


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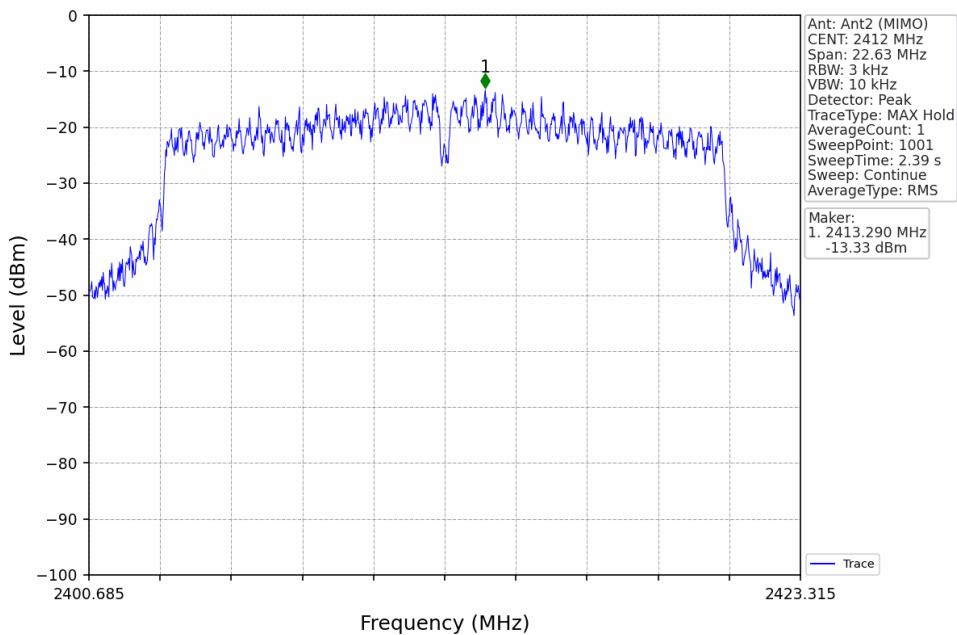


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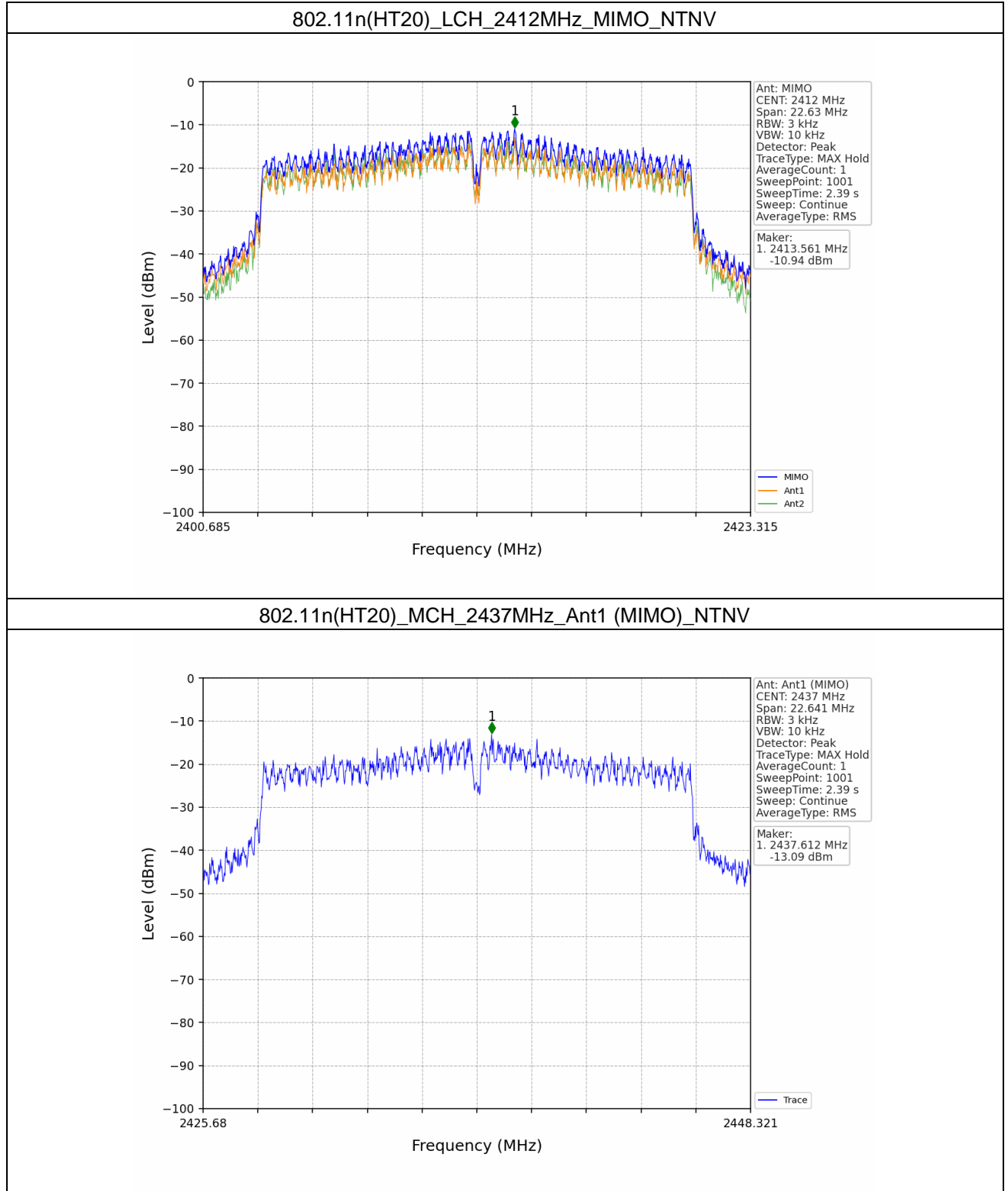
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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



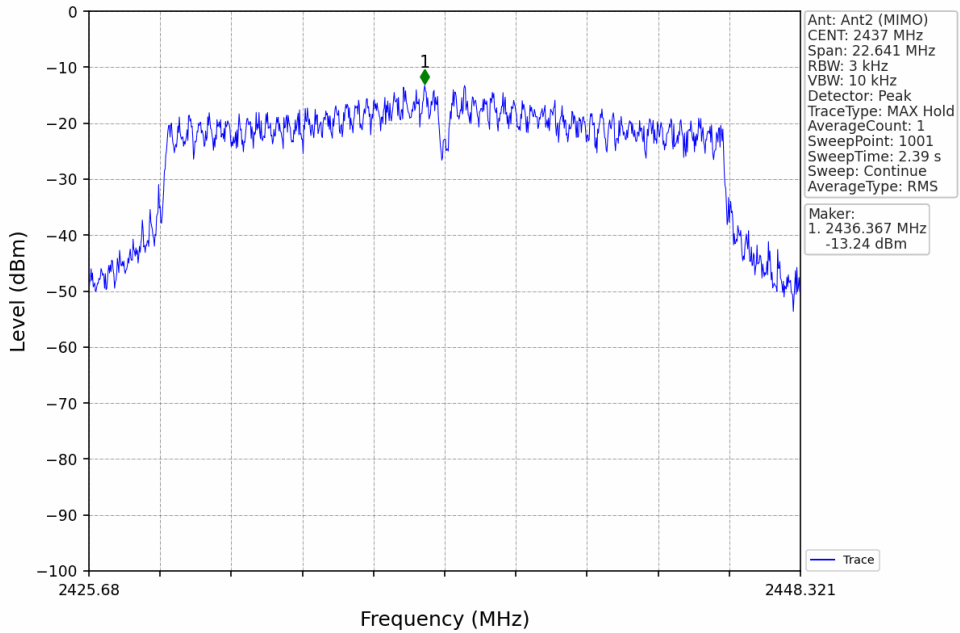
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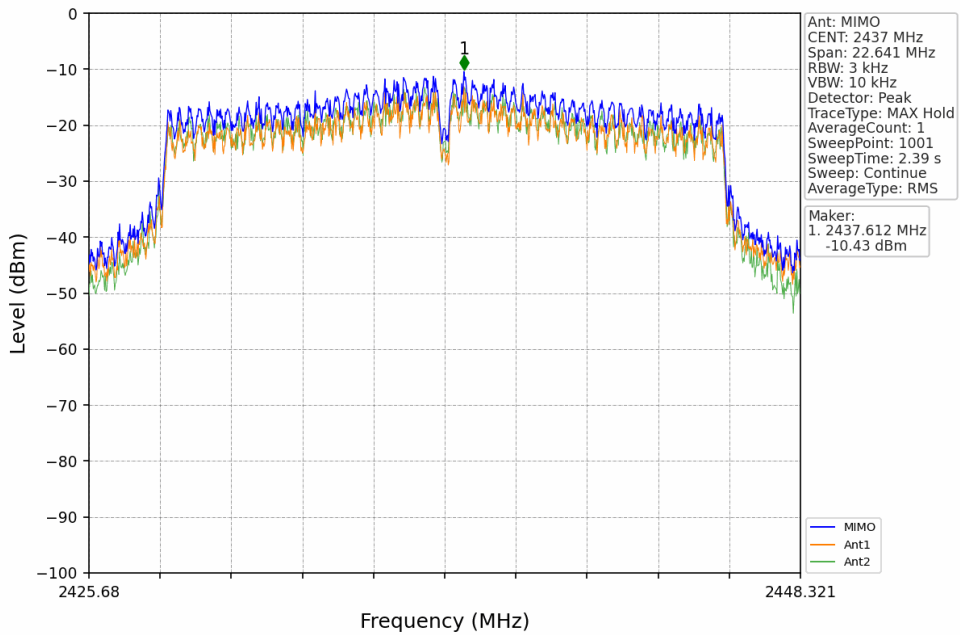
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802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

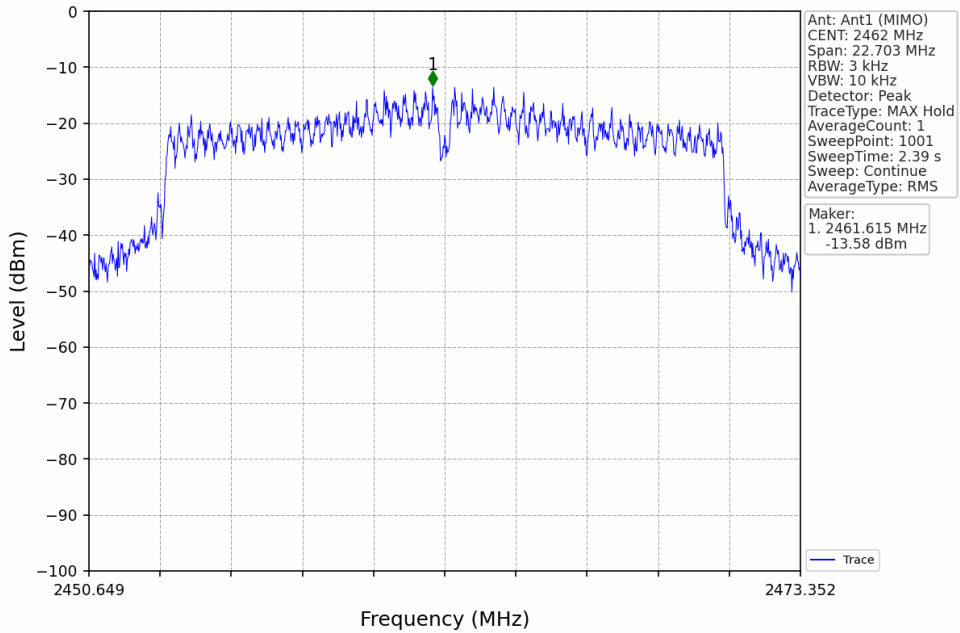


802.11n(HT20)\_MCH\_2437MHz\_MIMO\_NTNV

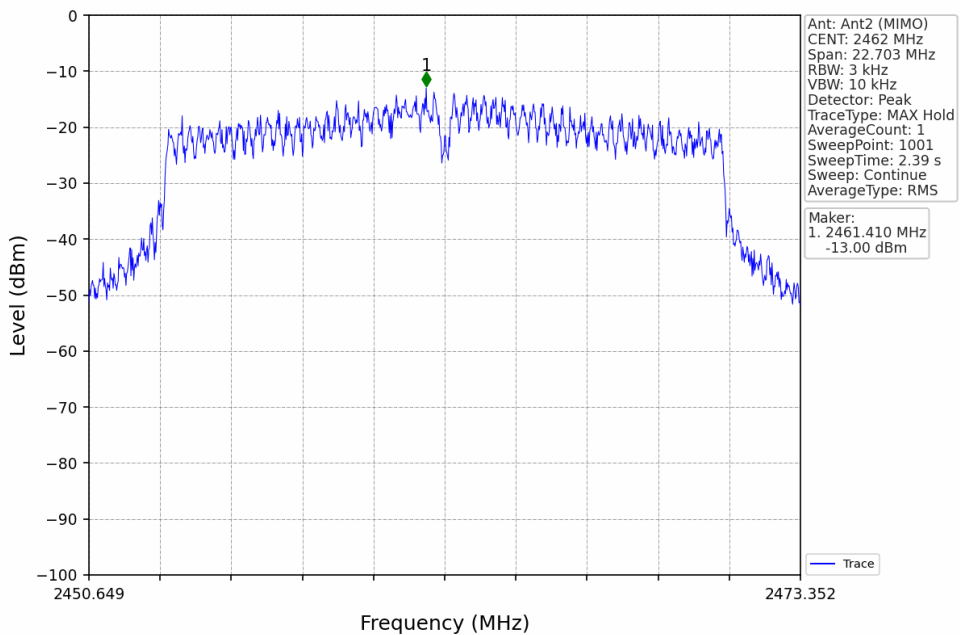


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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV

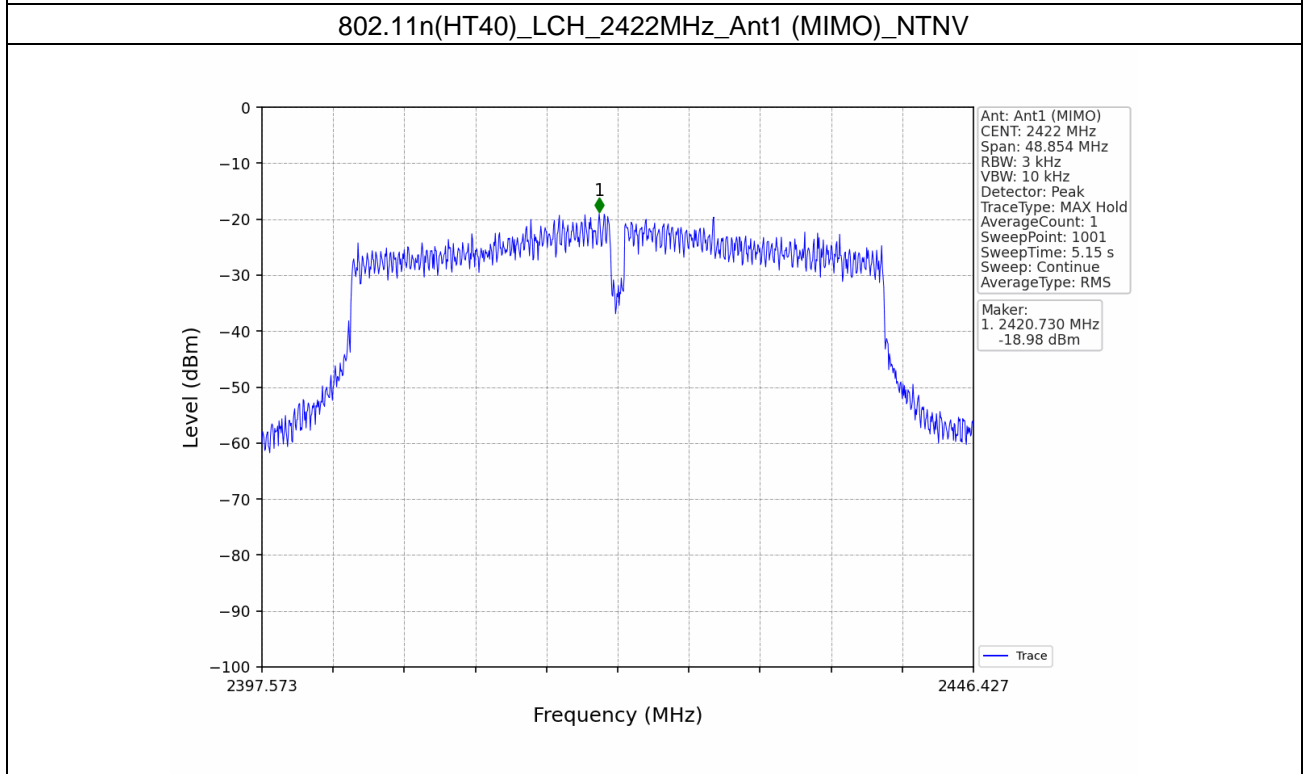
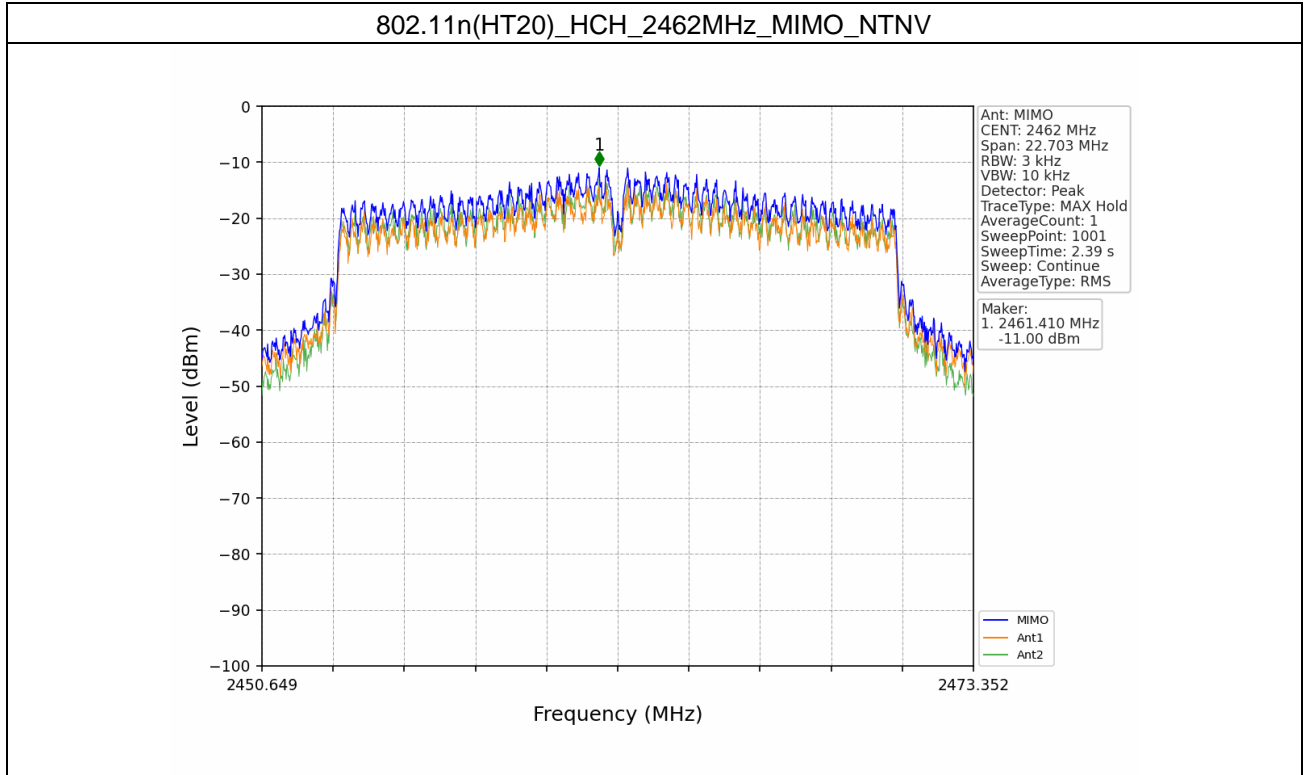


802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



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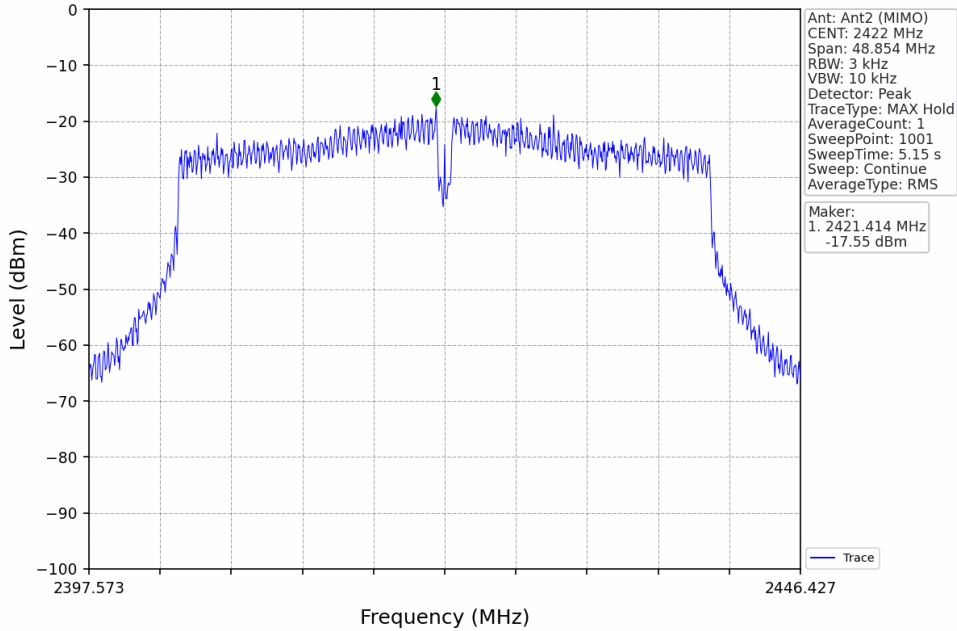
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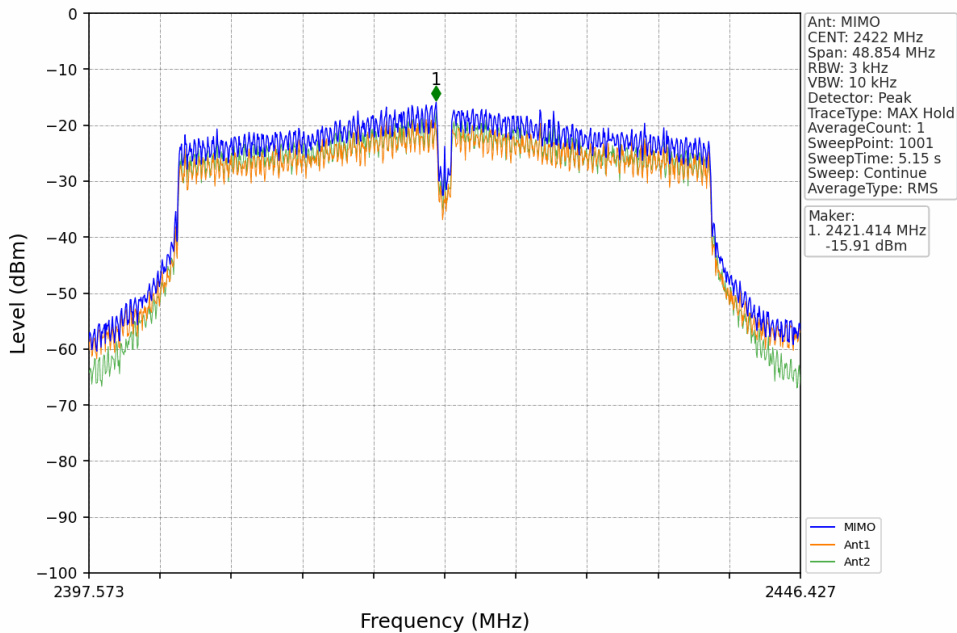
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802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV

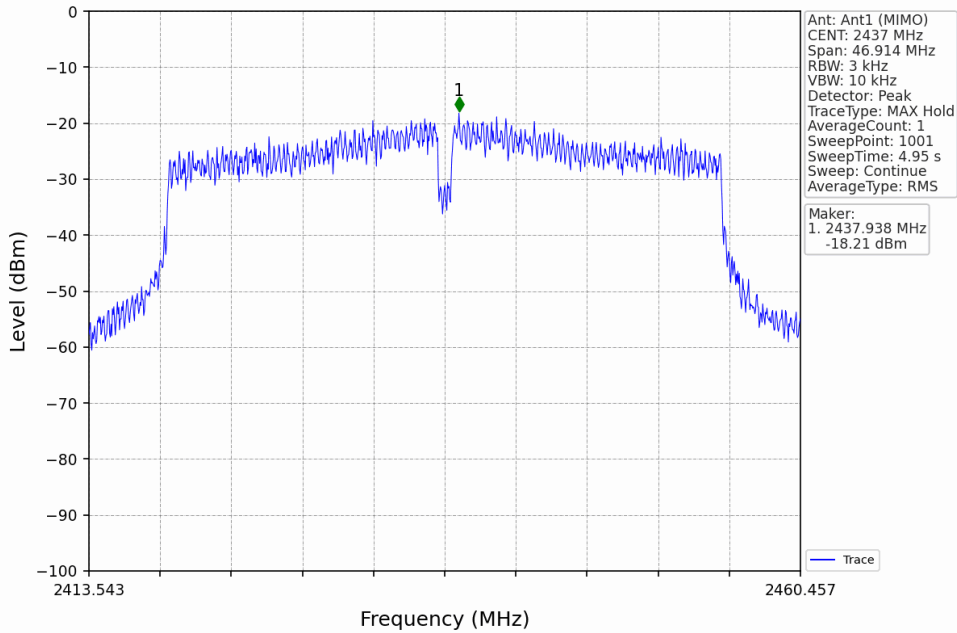


802.11n(HT40)\_LCH\_2422MHz\_MIMO\_NTNV

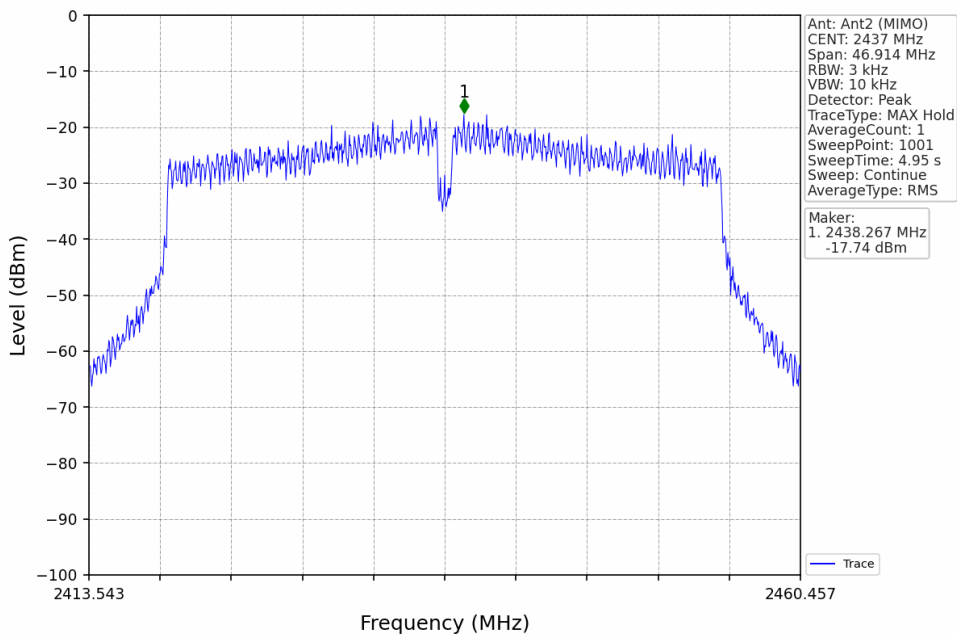


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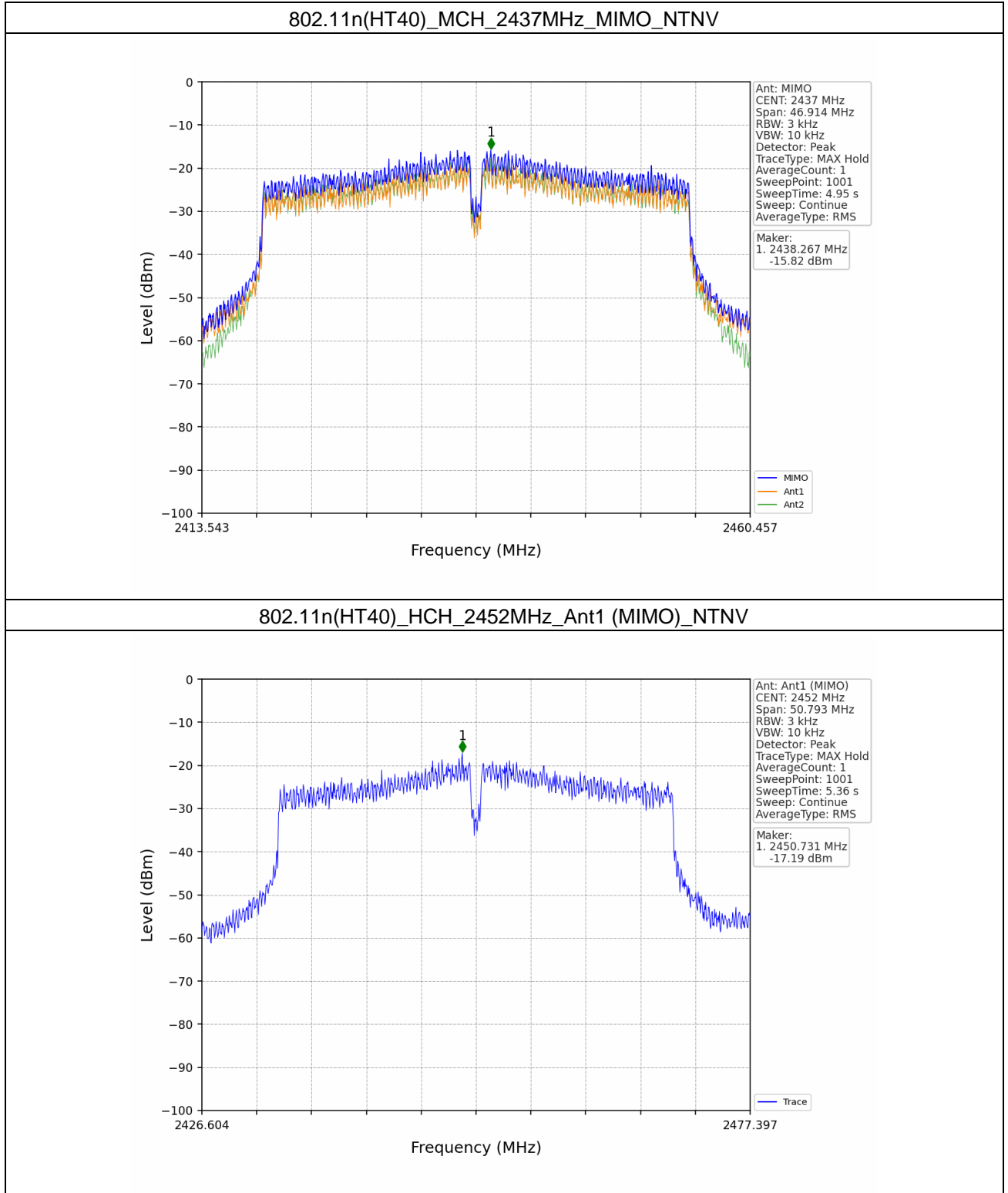
802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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

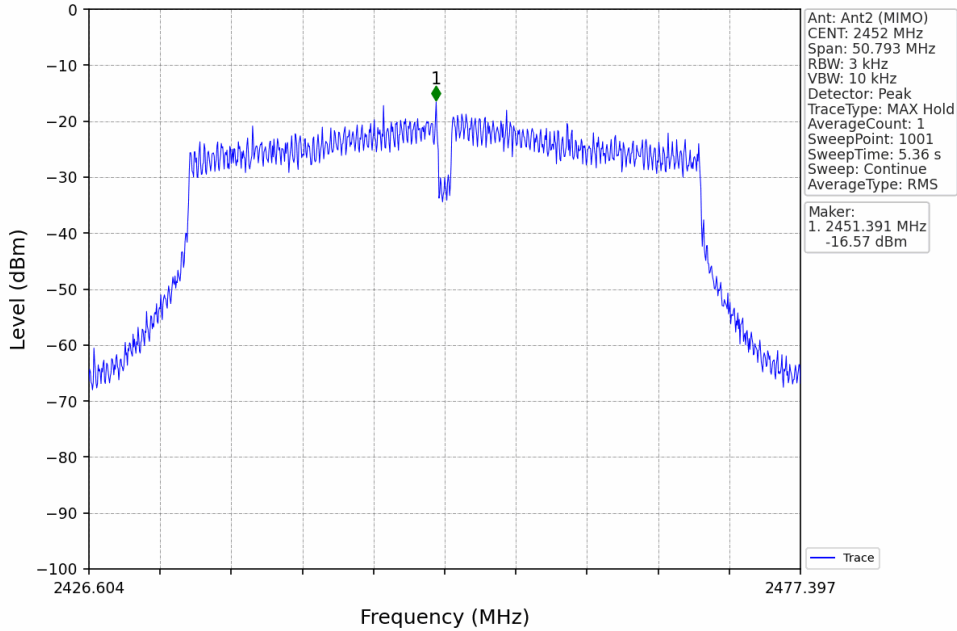


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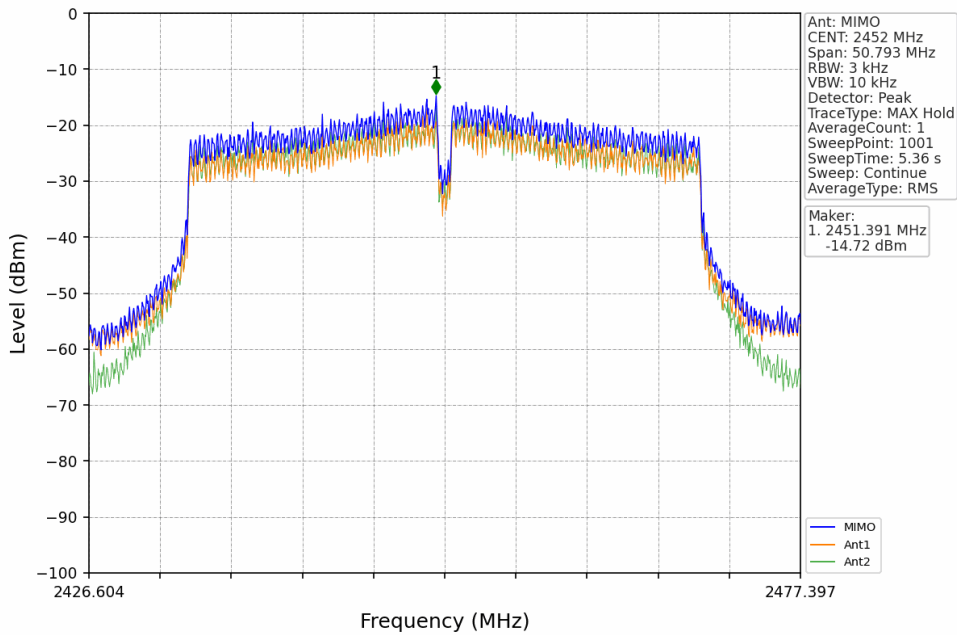


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802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



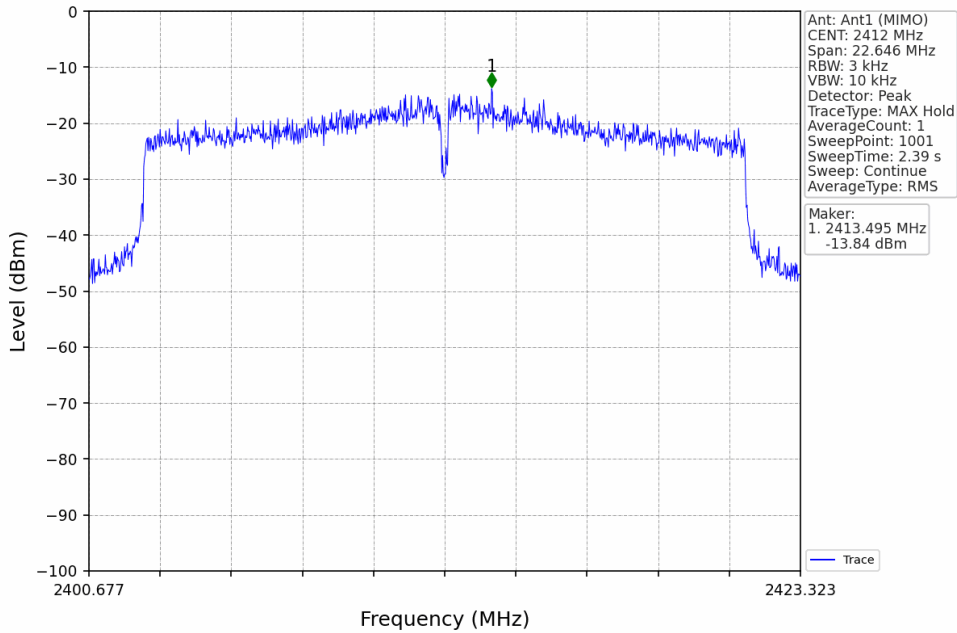
802.11n(HT40)\_HCH\_2452MHz\_MIMO\_NTNV



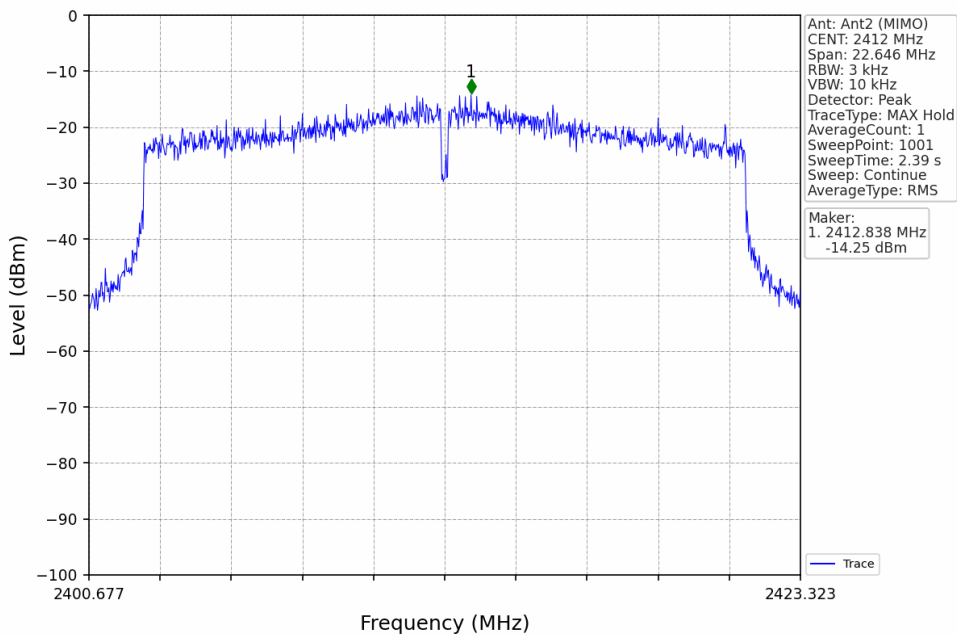
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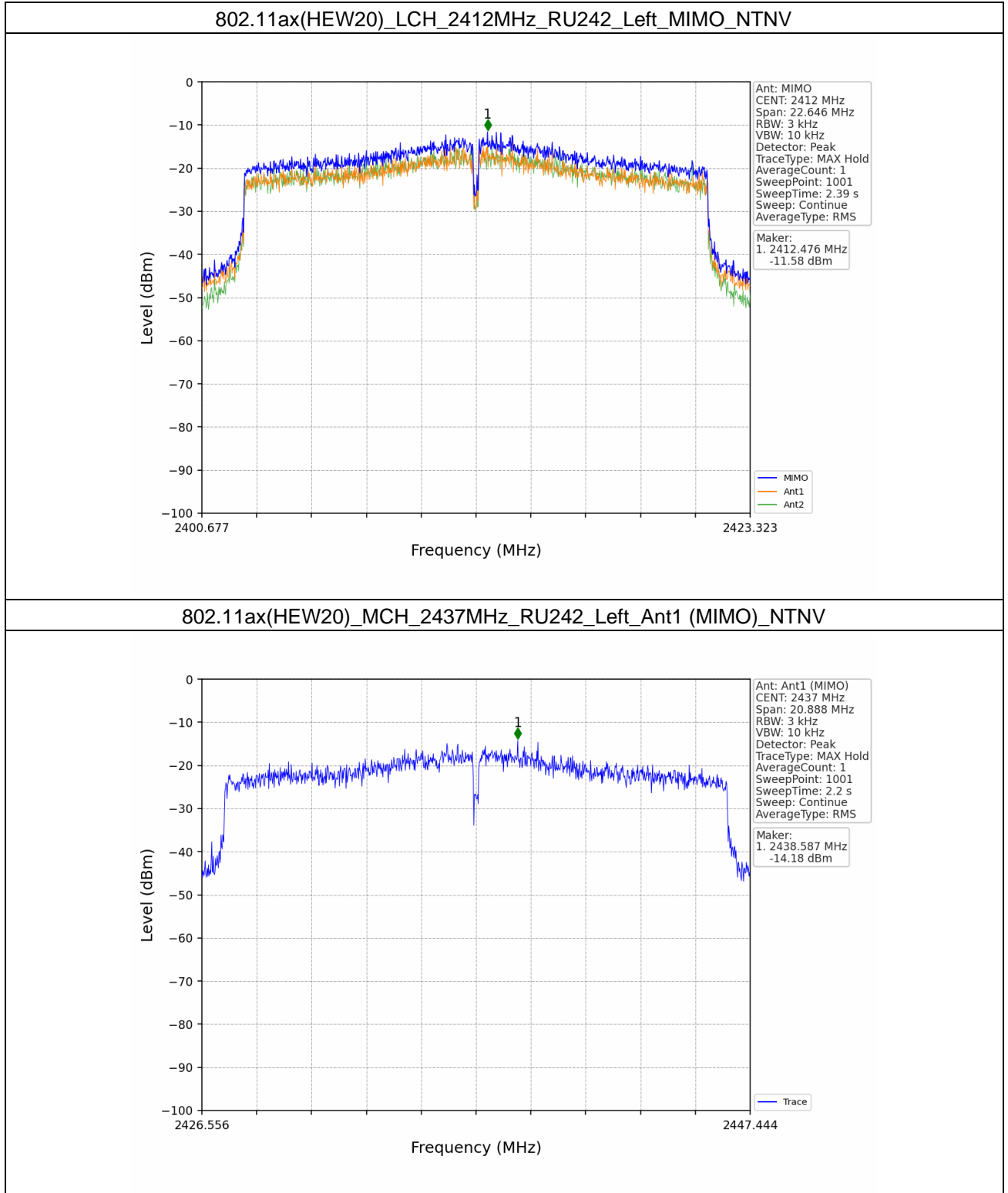
802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV



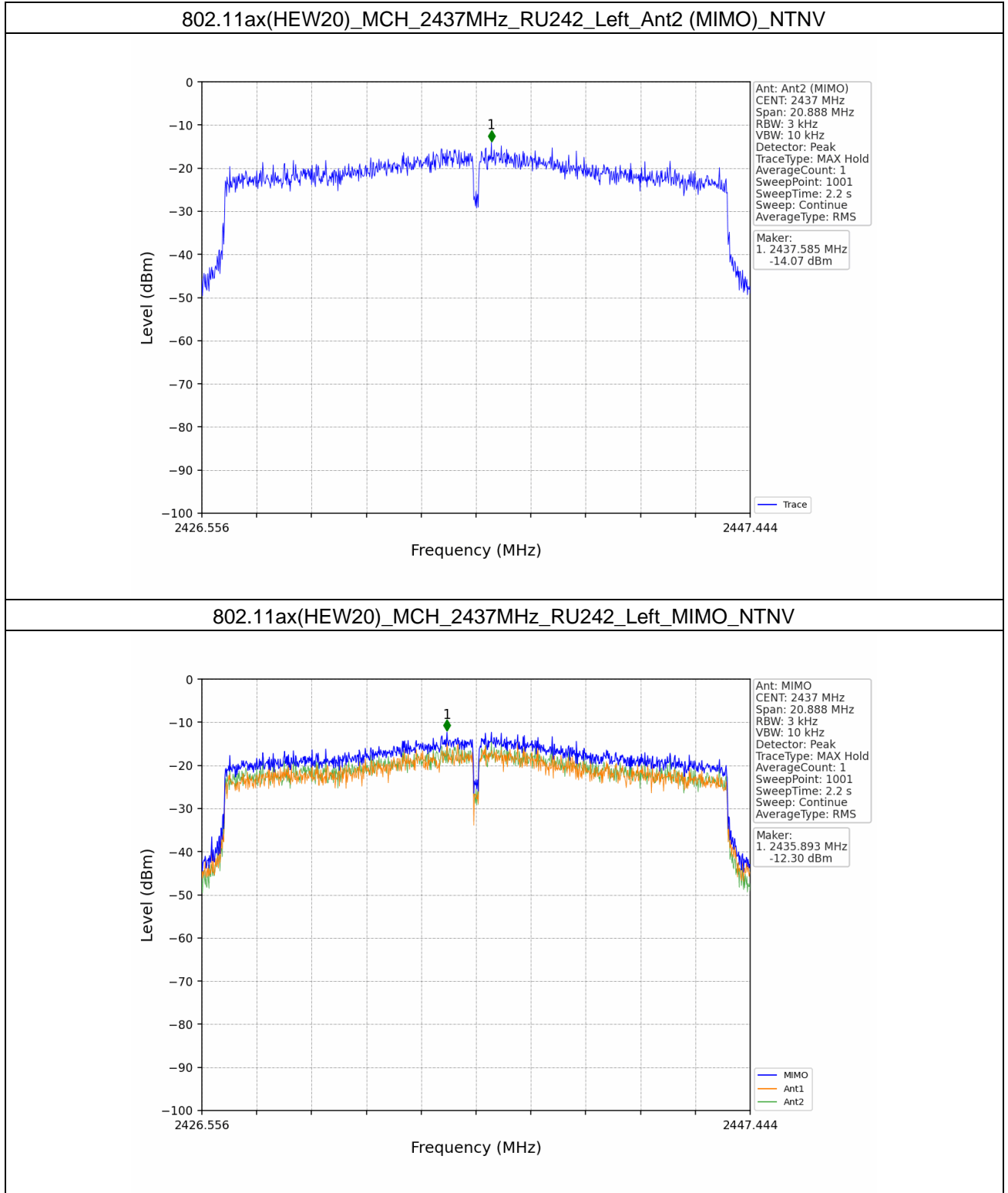
802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant2 (MIMO)\_NTNV



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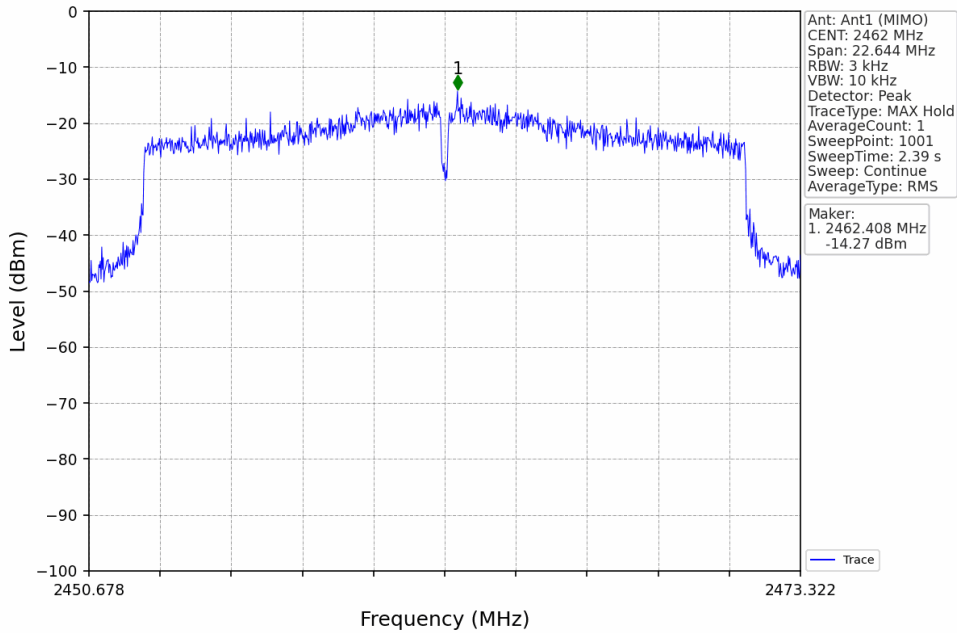


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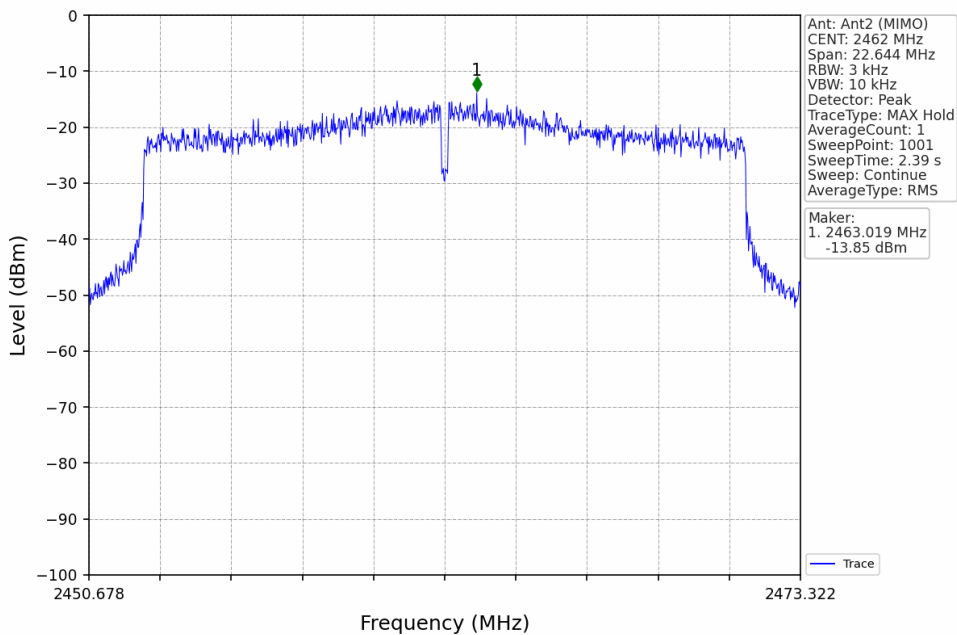


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802.11ax(HEW20)\_HCH\_2462MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV

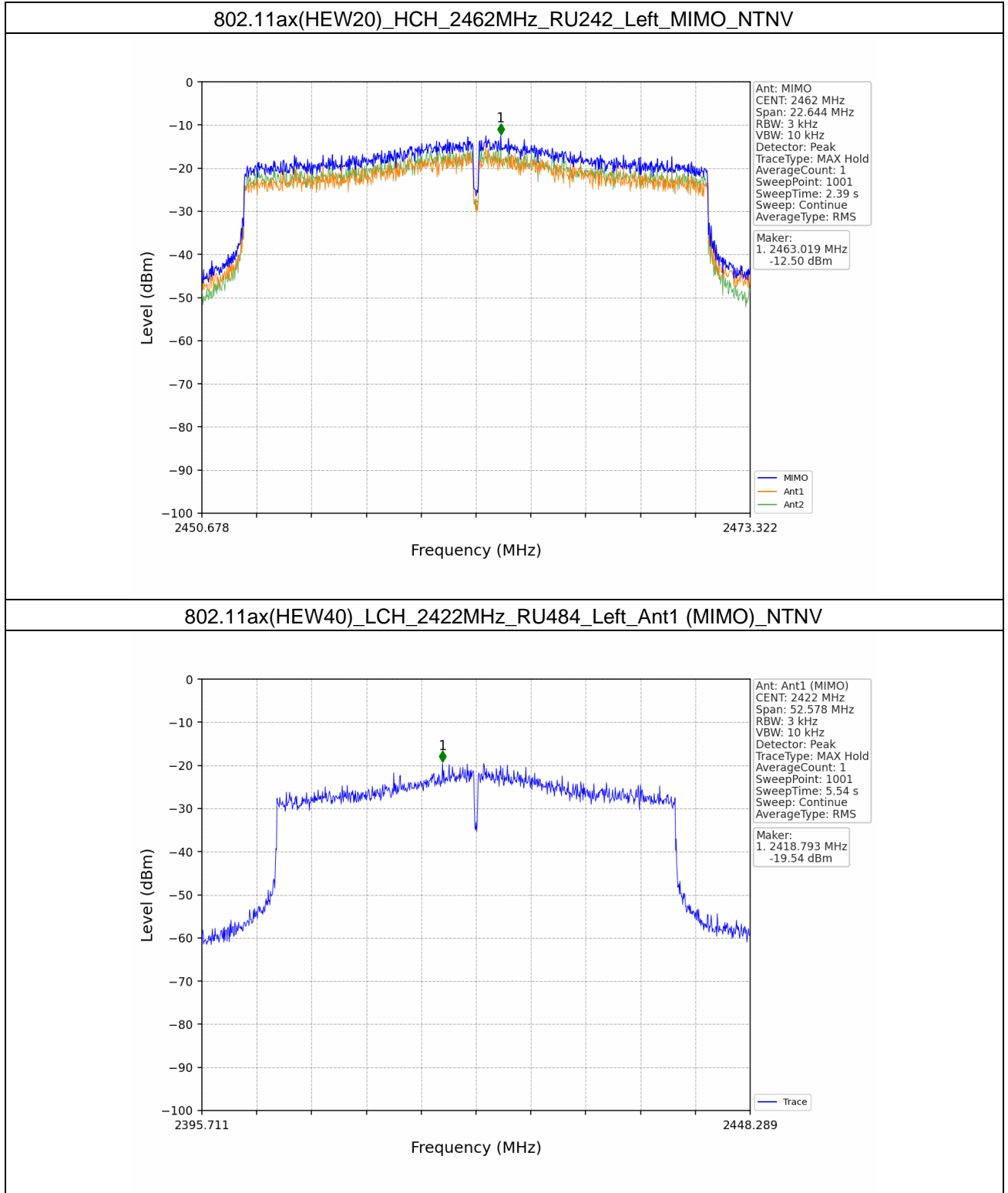


802.11ax(HEW20)\_HCH\_2462MHz\_RU242\_Left\_Ant2 (MIMO)\_NTNV



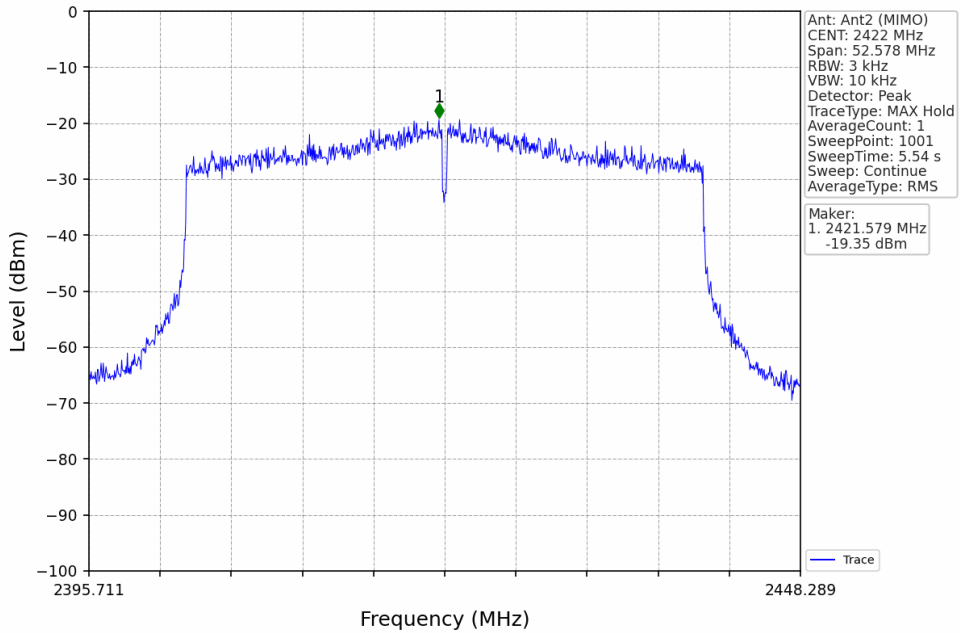
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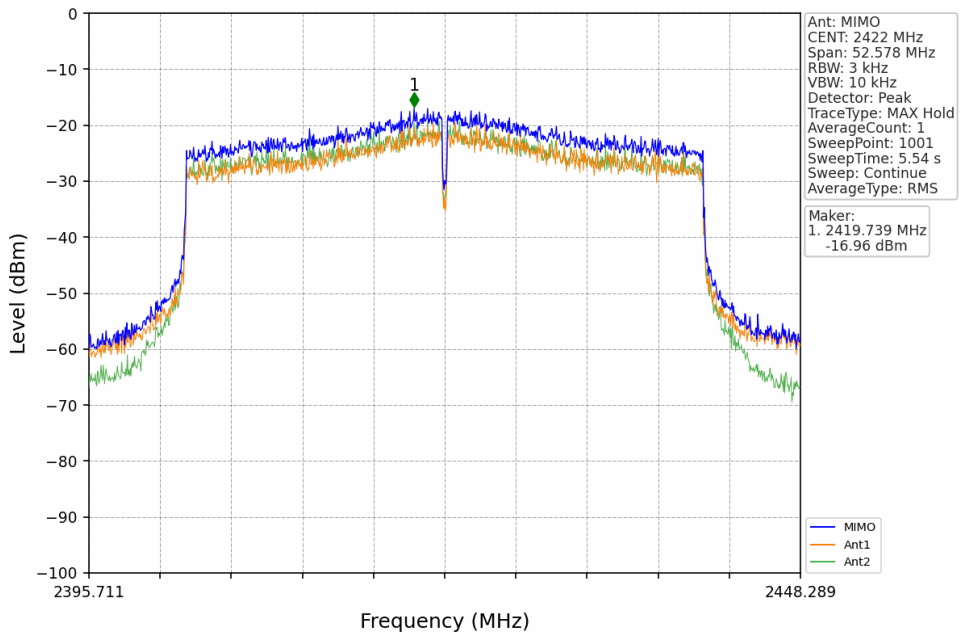


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802.11ax(HEW40)\_LCH\_2422MHz\_RU484\_Left\_Ant2 (MIMO)\_NTNV



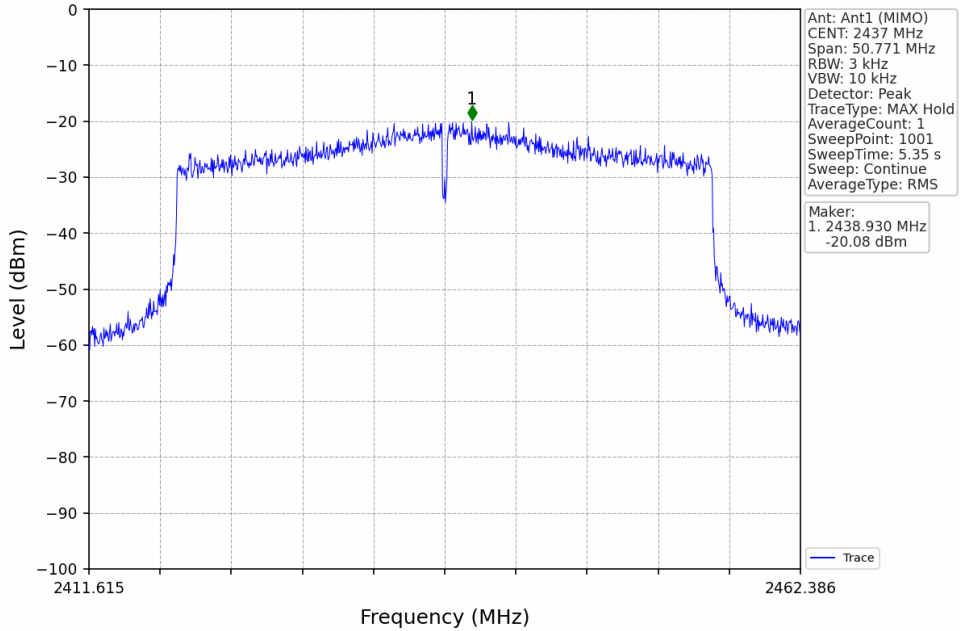
802.11ax(HEW40)\_LCH\_2422MHz\_RU484\_Left\_MIMO\_NTNV



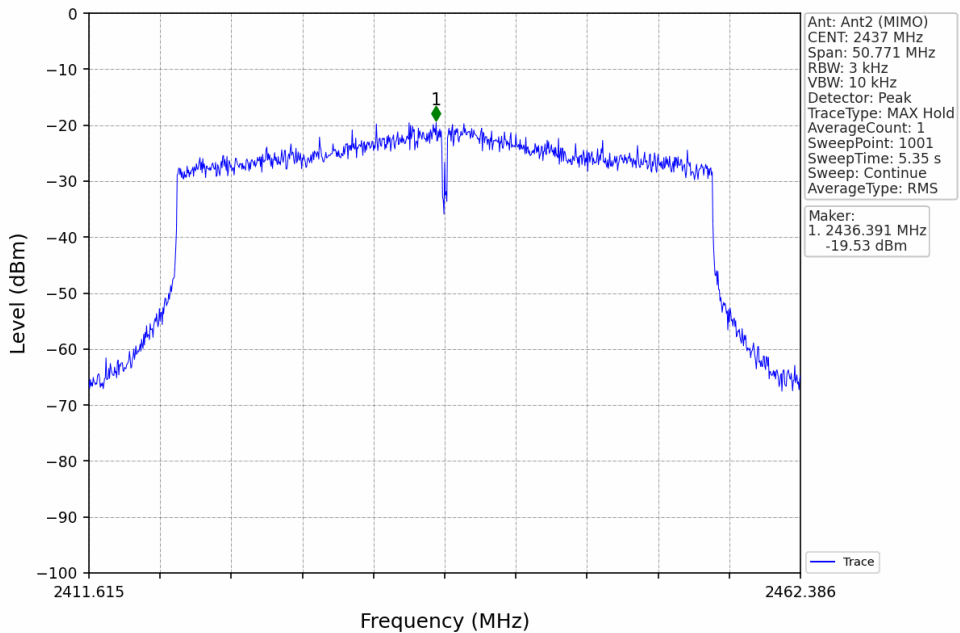
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### 802.11ax(HEW40)\_MCH\_2437MHz\_RU484\_Left\_Ant1 (MIMO)\_NTNV

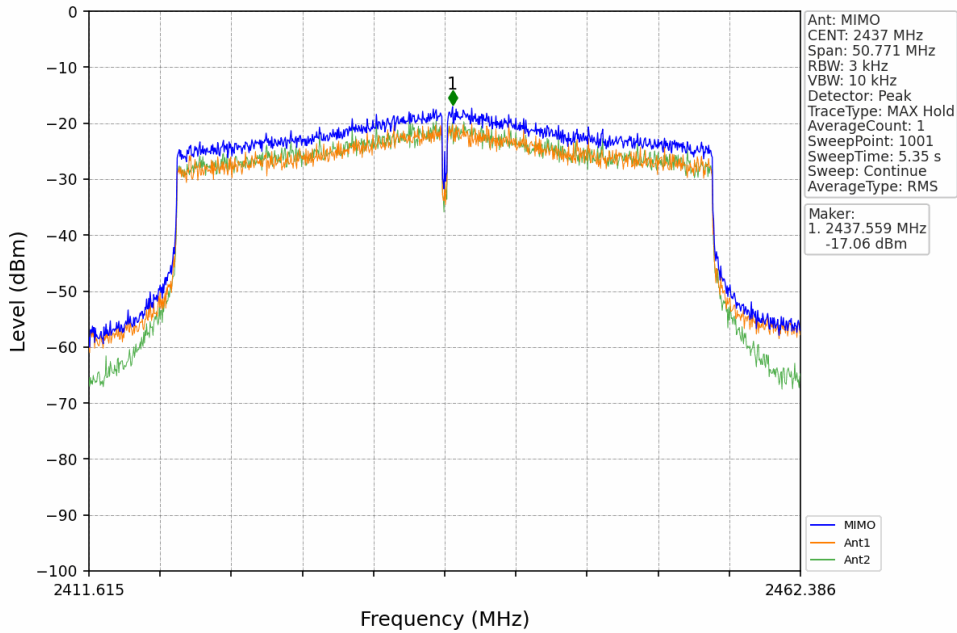


### 802.11ax(HEW40)\_MCH\_2437MHz\_RU484\_Left\_Ant2 (MIMO)\_NTNV

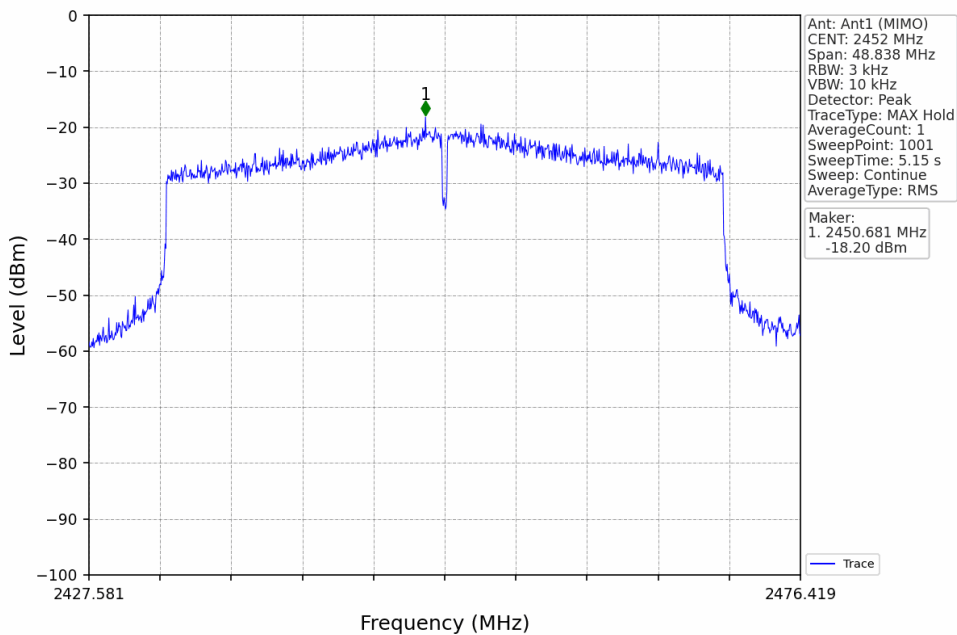


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802.11ax(HEW40)\_MCH\_2437MHz\_RU484\_Left\_MIMO\_NTNV

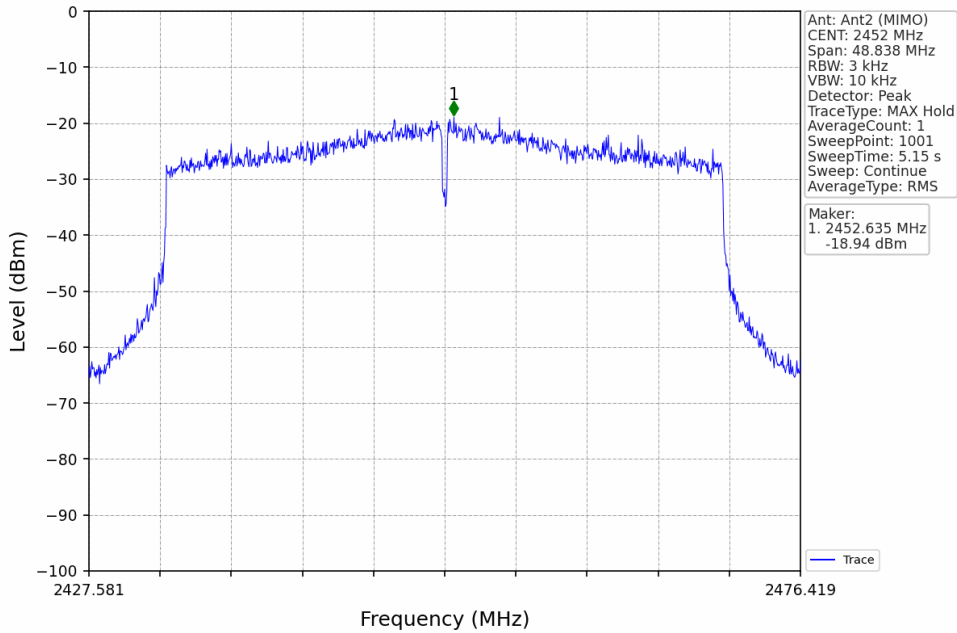


802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_Ant1 (MIMO)\_NTNV

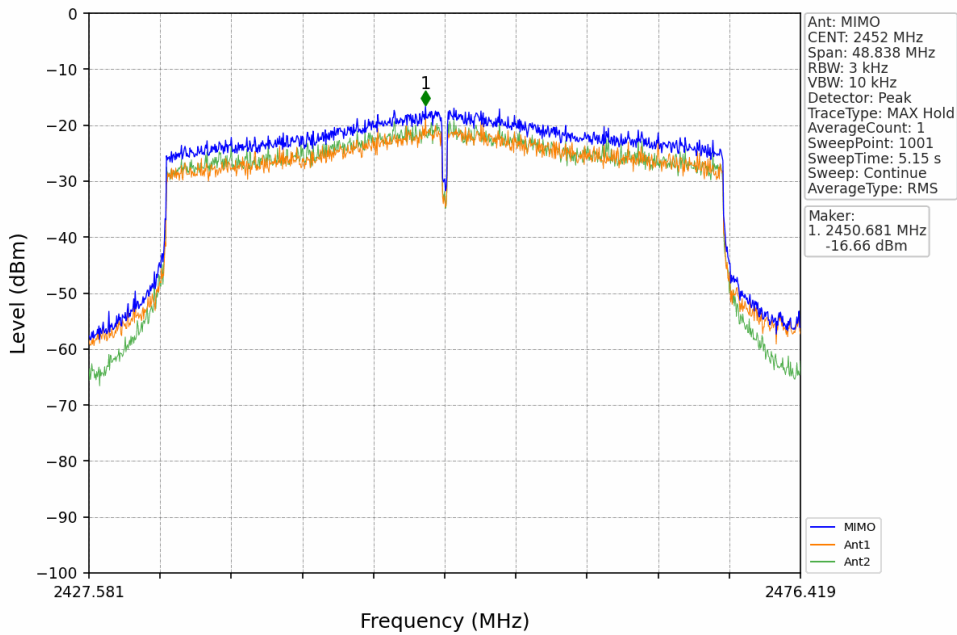


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802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_Ant2 (MIMO)\_NTNV



802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_MIMO\_NTNV



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

### 5.1 Test Result

#### 5.1.1 Ref

| Mode           | TX Type | Frequency (MHz) | RU    | RU Pos | ANT | Level of Reference (dBm) |
|----------------|---------|-----------------|-------|--------|-----|--------------------------|
| 802.11b        | SISO    | 2412            | /     | /      | 1   | 6.34                     |
|                |         |                 |       |        | 2   | 6.14                     |
|                |         | 2437            | /     | /      | 1   | 7.25                     |
|                |         |                 |       |        | 2   | 8.02                     |
|                |         | 2462            | /     | /      | 1   | 6.36                     |
|                |         |                 |       |        | 2   | 8.03                     |
| 802.11g        | SISO    | 2412            | /     | /      | 1   | 3.10                     |
|                |         |                 |       |        | 2   | 3.96                     |
|                |         | 2437            | /     | /      | 1   | 3.09                     |
|                |         |                 |       |        | 2   | 3.68                     |
|                |         | 2462            | /     | /      | 1   | 2.40                     |
|                |         |                 |       |        | 2   | 3.99                     |
| 802.11n (HT20) | MIMO    | 2412            | /     | /      | 1   | 2.67                     |
|                |         |                 |       |        | 2   | 2.87                     |
|                |         | 2437            | /     | /      | 1   | 0.97                     |
|                |         |                 |       |        | 2   | 2.05                     |
|                |         | 2462            | /     | /      | 1   | 2.24                     |
|                |         |                 |       |        | 2   | 1.09                     |
| 802.11n (HT40) | MIMO    | 2422            | /     | /      | 1   | -2.68                    |
|                |         |                 |       |        | 2   | -2.29                    |
|                |         | 2437            | /     | /      | 1   | -2.40                    |
|                |         |                 |       |        | 2   | -2.17                    |
|                |         | 2452            | /     | /      | 1   | -3.06                    |
|                |         |                 |       |        | 2   | -2.57                    |
| 802.11ax       | MIMO    | 2412            | RU242 | Left   | 1   | 2.03                     |



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000342402

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|                     |      |      |       |      |   |       |  |   |       |
|---------------------|------|------|-------|------|---|-------|--|---|-------|
| (HEW20)             |      | 2437 | RU242 | Left | 2 | 2.17  |  |   |       |
|                     |      |      |       |      | 1 | 2.13  |  |   |       |
|                     |      | 2462 | RU242 | Left | 2 | 2.31  |  |   |       |
|                     |      |      |       |      | 1 | 0.60  |  |   |       |
| 802.11ax<br>(HEW40) | MIMO | 2422 | RU484 | Left | 2 | 2.16  |  |   |       |
|                     |      |      |       |      | 1 | -3.00 |  |   |       |
|                     |      | 2437 | RU484 | Left | 2 | -2.60 |  |   |       |
|                     |      |      |       |      | 1 | -2.45 |  |   |       |
|                     |      | 2452 | RU484 | Left | 2 | -2.10 |  |   |       |
|                     |      |      |       |      | 1 | -3.65 |  |   |       |
|                     |      |      |       |      |   |       |  | 2 | -2.03 |



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5.1.2 CSE

| Mode             | TX Type | Frequency (MHz) | RU    | RU Pos | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------------------|---------|-----------------|-------|--------|-----|--------------------------|-------------|---------|
| 802.11b          | SISO    | 2412            | /     | /      | 1   | 7.25                     | -22.75      | Pass    |
|                  |         |                 |       |        | 2   | 8.03                     | -21.97      | Pass    |
|                  |         | 2437            | /     | /      | 1   | 7.25                     | -22.75      | Pass    |
|                  |         |                 |       |        | 2   | 8.03                     | -21.97      | Pass    |
|                  |         | 2462            | /     | /      | 1   | 7.25                     | -22.75      | Pass    |
|                  |         |                 |       |        | 2   | 8.03                     | -21.97      | Pass    |
| 802.11g          | SISO    | 2412            | /     | /      | 1   | 3.10                     | -26.90      | Pass    |
|                  |         |                 |       |        | 2   | 3.99                     | -26.01      | Pass    |
|                  |         | 2437            | /     | /      | 1   | 3.10                     | -26.90      | Pass    |
|                  |         |                 |       |        | 2   | 3.99                     | -26.01      | Pass    |
|                  |         | 2462            | /     | /      | 1   | 3.10                     | -26.90      | Pass    |
|                  |         |                 |       |        | 2   | 3.99                     | -26.01      | Pass    |
| 802.11n (HT20)   | MIMO    | 2412            | /     | /      | 1   | 2.67                     | -27.33      | Pass    |
|                  |         |                 |       |        | 2   | 2.87                     | -27.13      | Pass    |
|                  |         | 2437            | /     | /      | 1   | 2.67                     | -27.33      | Pass    |
|                  |         |                 |       |        | 2   | 2.87                     | -27.13      | Pass    |
|                  |         | 2462            | /     | /      | 1   | 2.67                     | -27.33      | Pass    |
|                  |         |                 |       |        | 2   | 2.87                     | -27.13      | Pass    |
| 802.11n (HT40)   | MIMO    | 2422            | /     | /      | 1   | -2.40                    | -32.40      | Pass    |
|                  |         |                 |       |        | 2   | -2.17                    | -32.17      | Pass    |
|                  |         | 2437            | /     | /      | 1   | -2.40                    | -32.40      | Pass    |
|                  |         |                 |       |        | 2   | -2.17                    | -32.17      | Pass    |
|                  |         | 2452            | /     | /      | 1   | -2.40                    | -32.40      | Pass    |
|                  |         |                 |       |        | 2   | -2.17                    | -32.17      | Pass    |
| 802.11ax (HEW20) | MIMO    | 2412            | RU242 | Left   | 1   | 2.13                     | -27.87      | Pass    |
|                  |         |                 |       |        | 2   | 2.31                     | -27.69      | Pass    |
|                  |         | 2437            | RU242 | Left   | 1   | 2.13                     | -27.87      | Pass    |
|                  |         |                 |       |        | 2   | 2.31                     | -27.69      | Pass    |
|                  |         | 2462            | RU242 | Left   | 1   | 2.13                     | -27.87      | Pass    |
|                  |         |                 |       |        | 2   | 2.31                     | -27.69      | Pass    |
| 802.11ax (HEW40) | MIMO    | 2422            | RU484 | Left   | 1   | -2.45                    | -32.45      | Pass    |
|                  |         |                 |       |        | 2   | -2.03                    | -32.03      | Pass    |
|                  |         | 2437            | RU484 | Left   | 1   | -2.45                    | -32.45      | Pass    |
|                  |         |                 |       |        | 2   | -2.03                    | -32.03      | Pass    |
|                  |         | 2452            | RU484 | Left   | 1   | -2.45                    | -32.45      | Pass    |
|                  |         |                 |       |        | 2   | -2.03                    | -32.03      | Pass    |

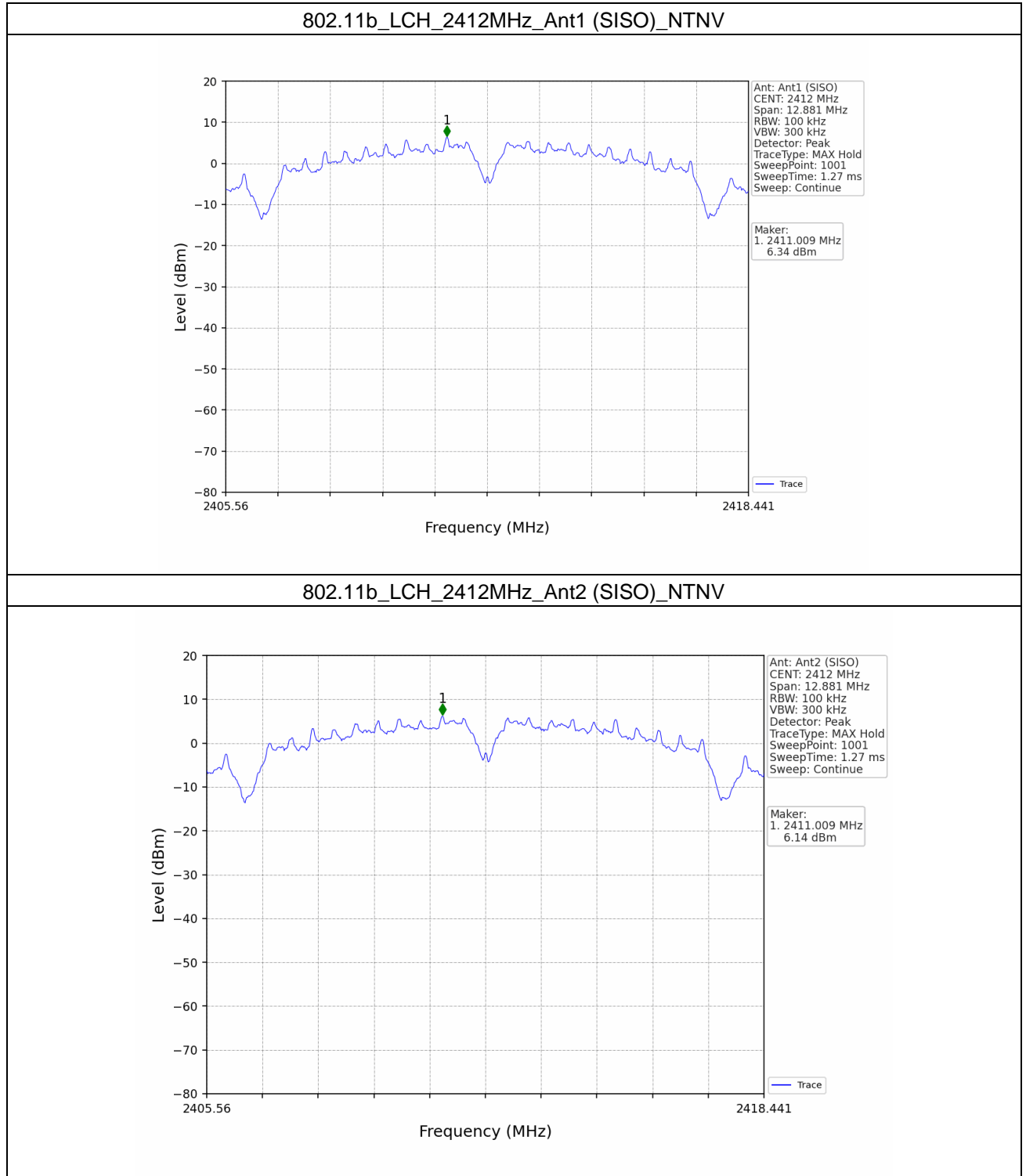


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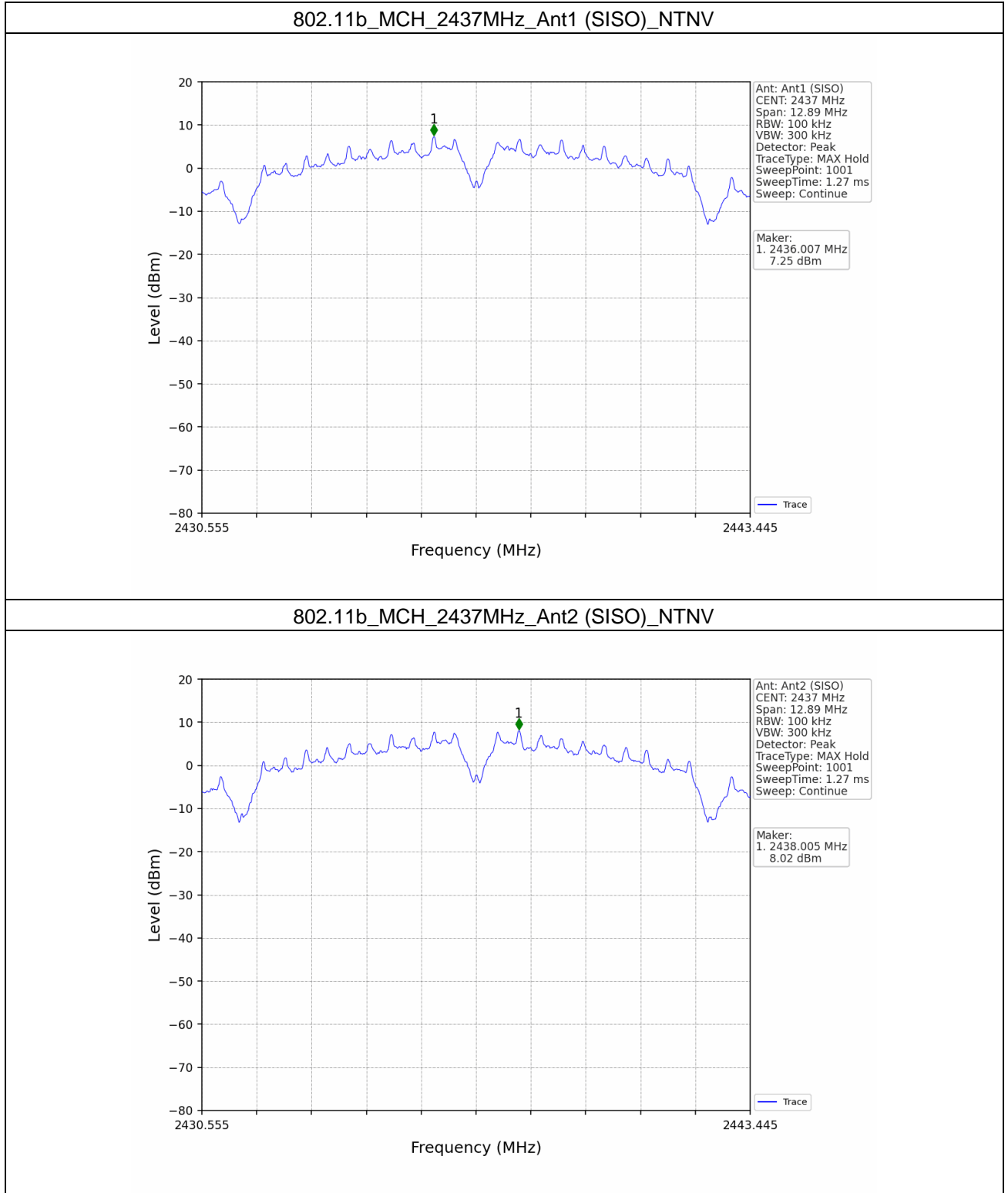


### 5.2 Test Graph

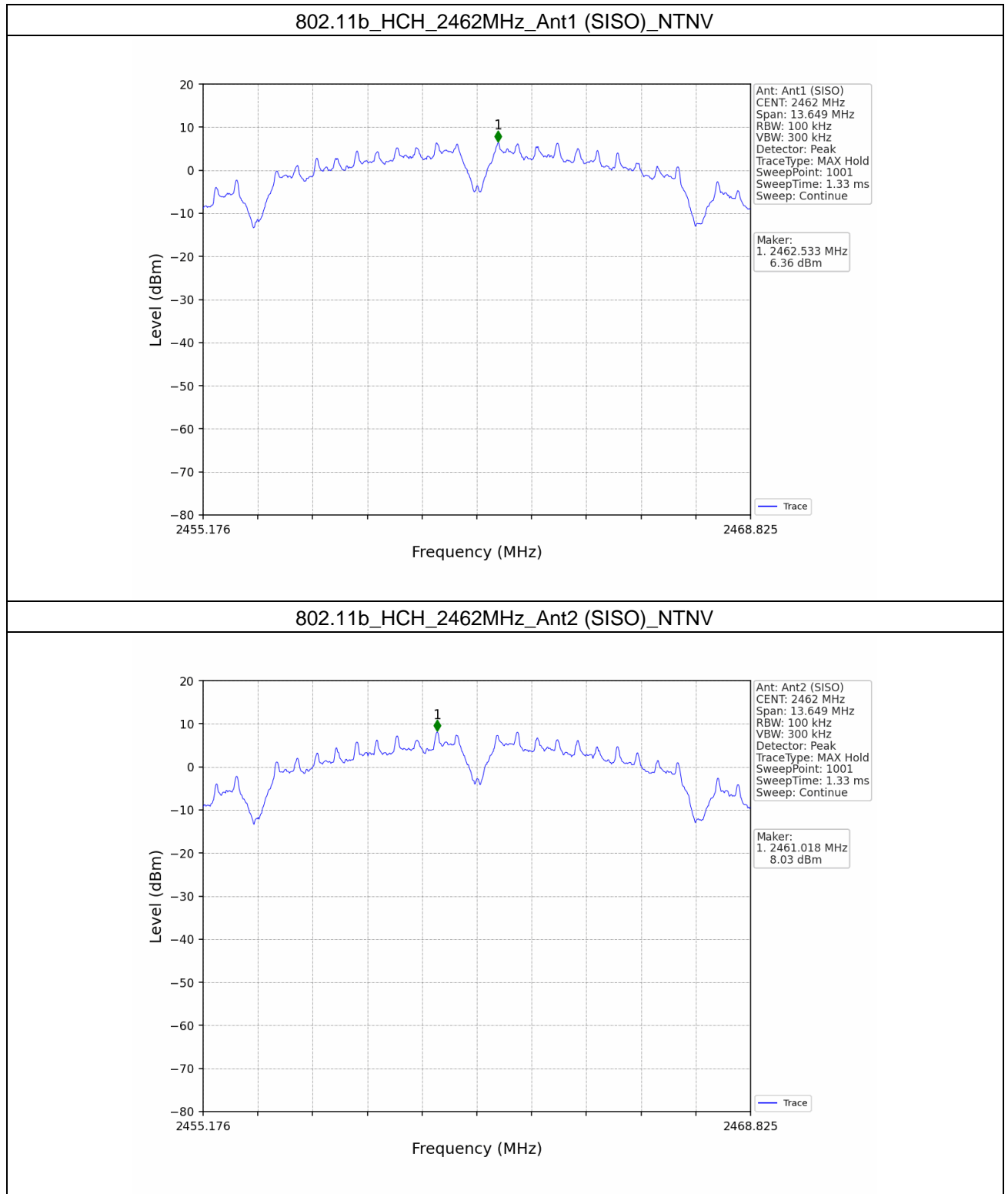
#### 5.2.1 Ref



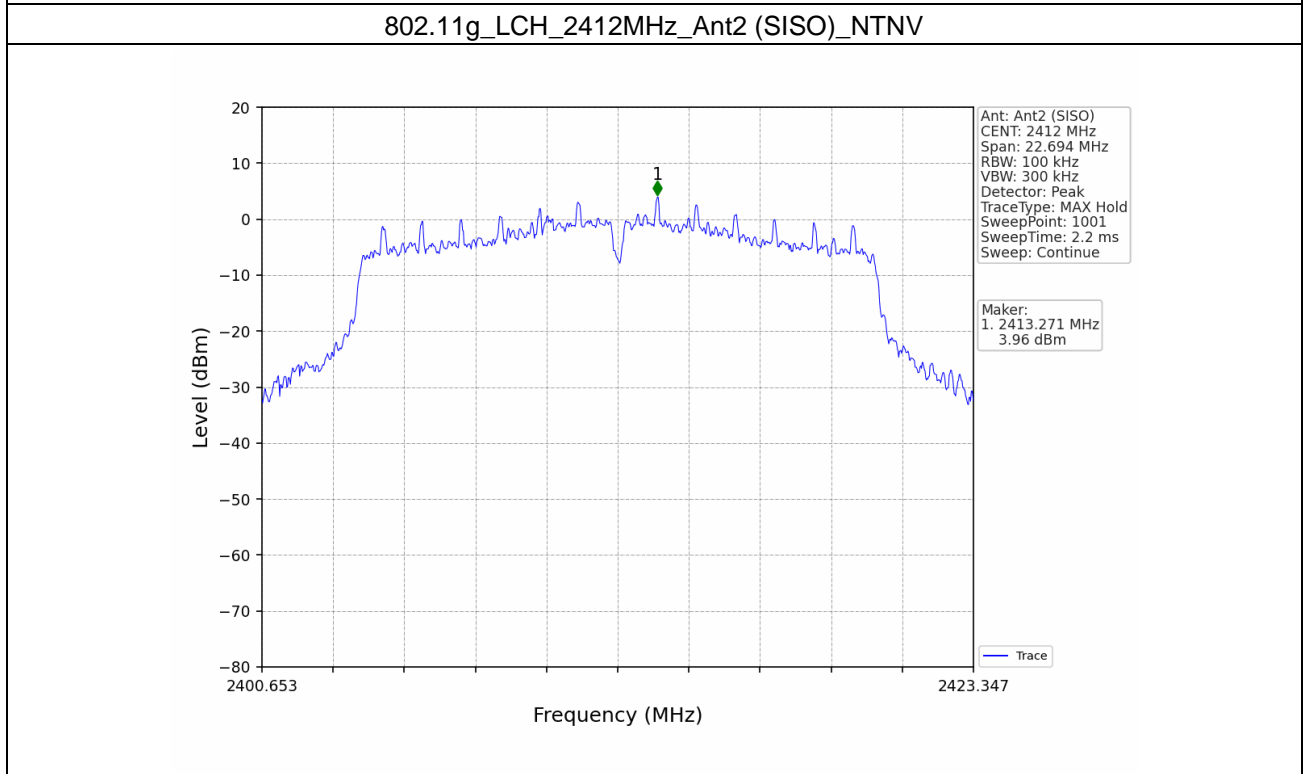
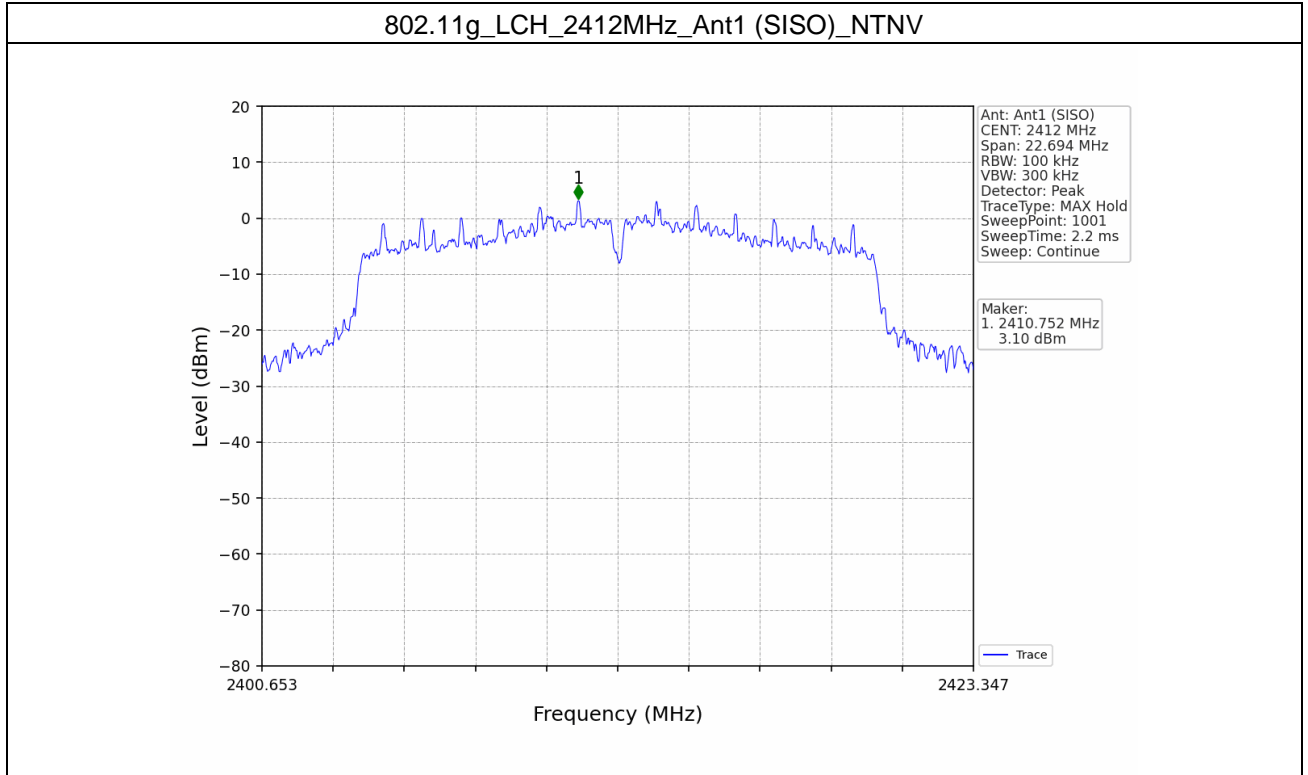
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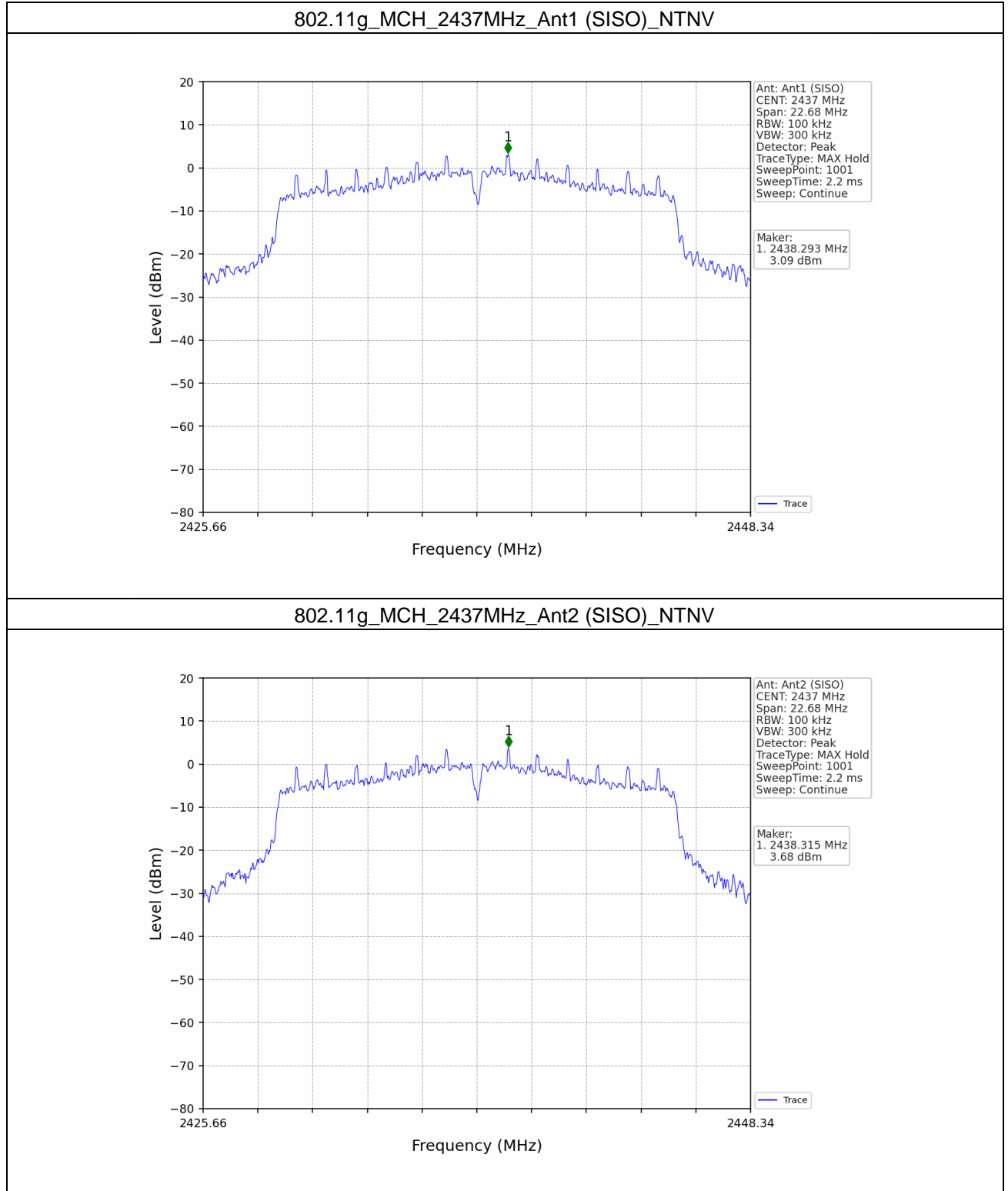
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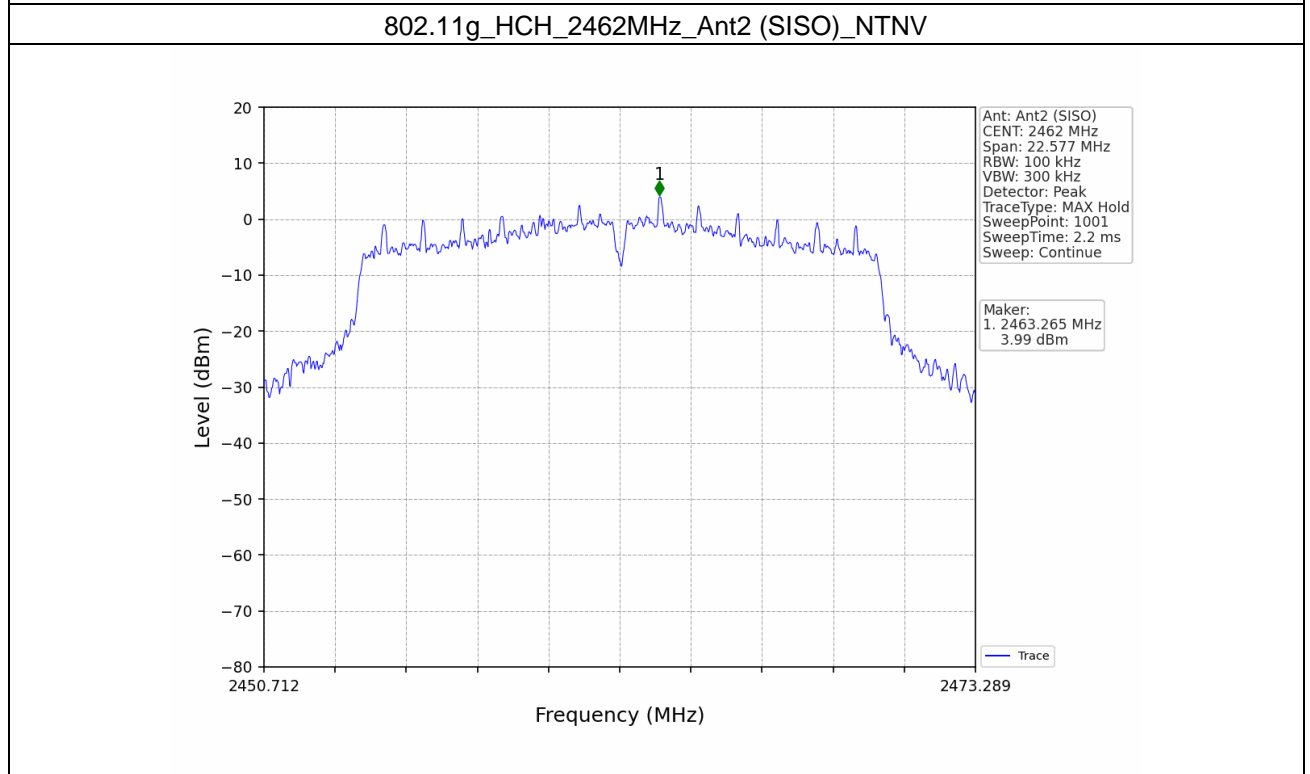
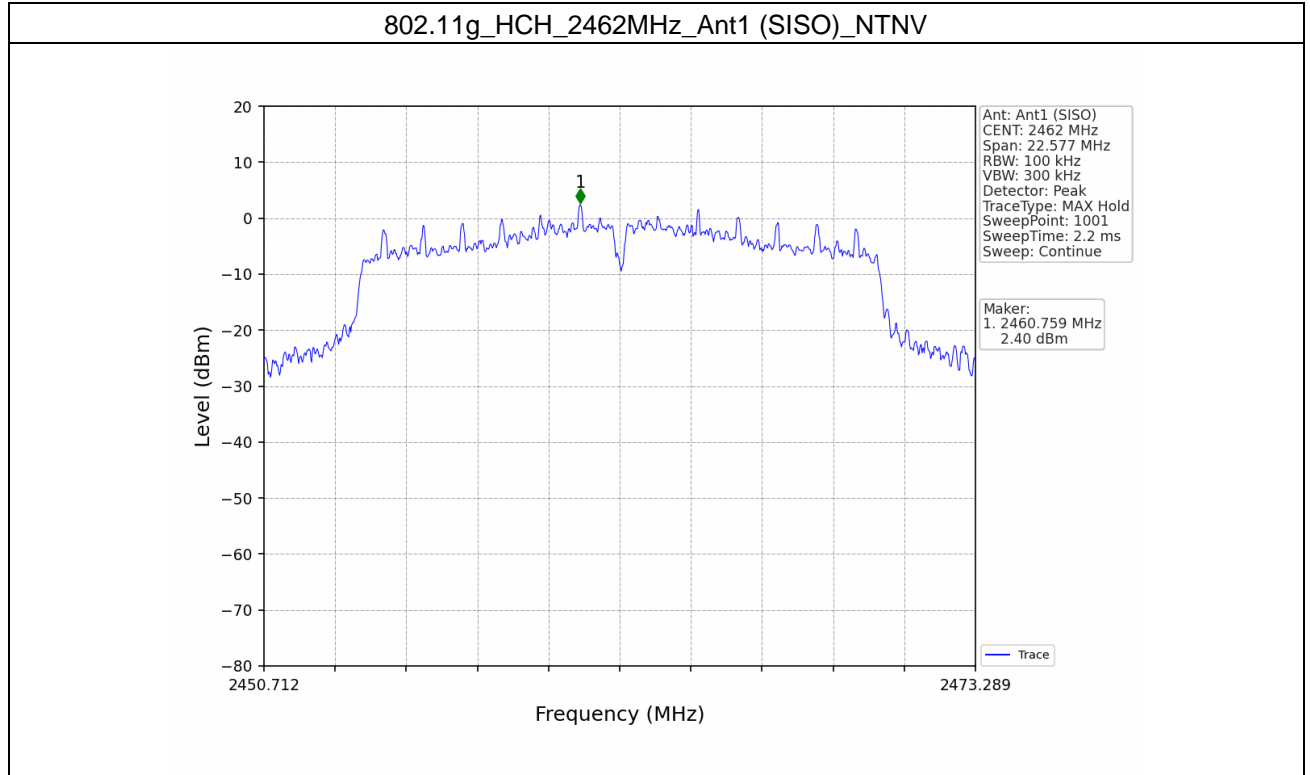


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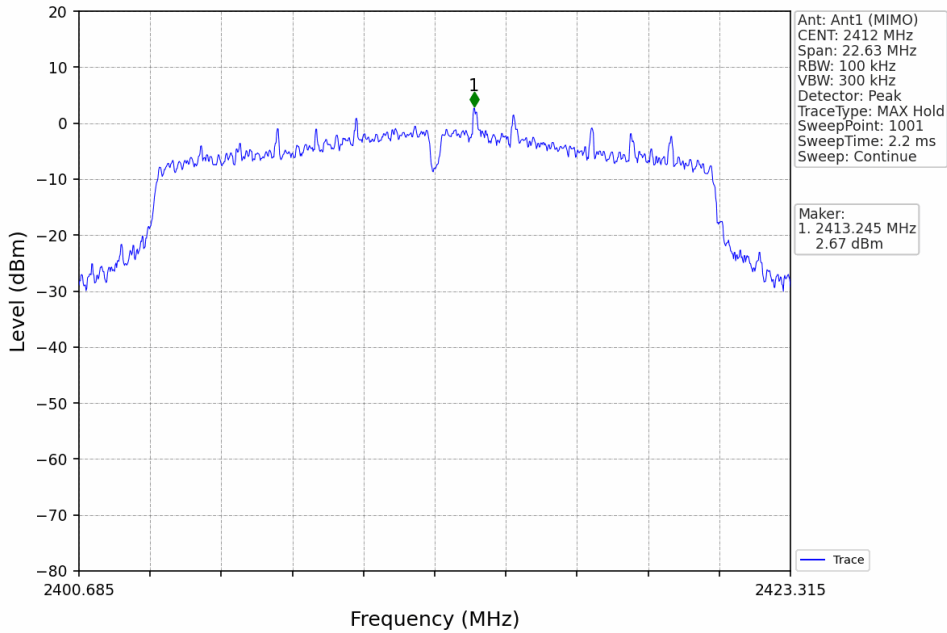
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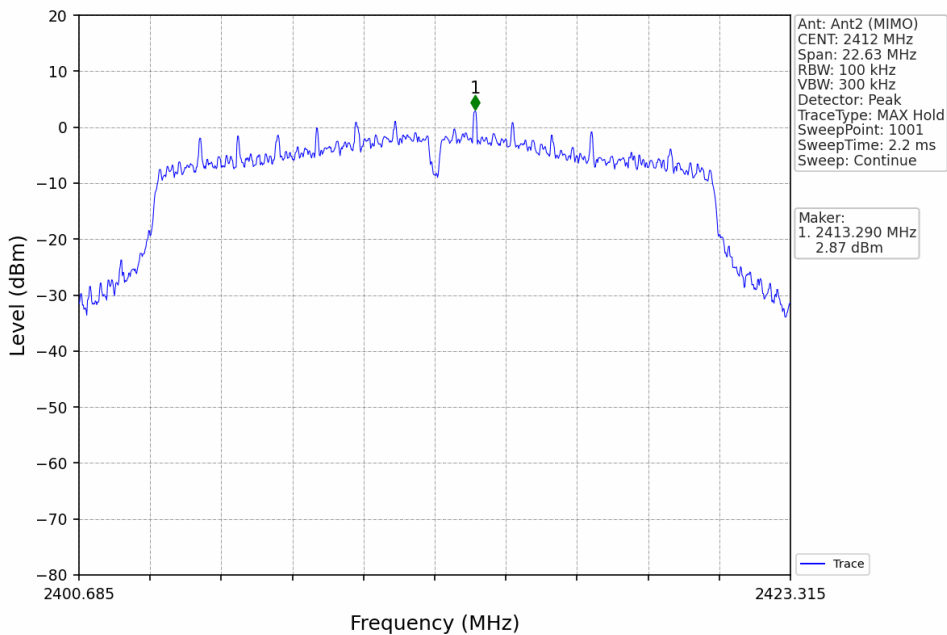


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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



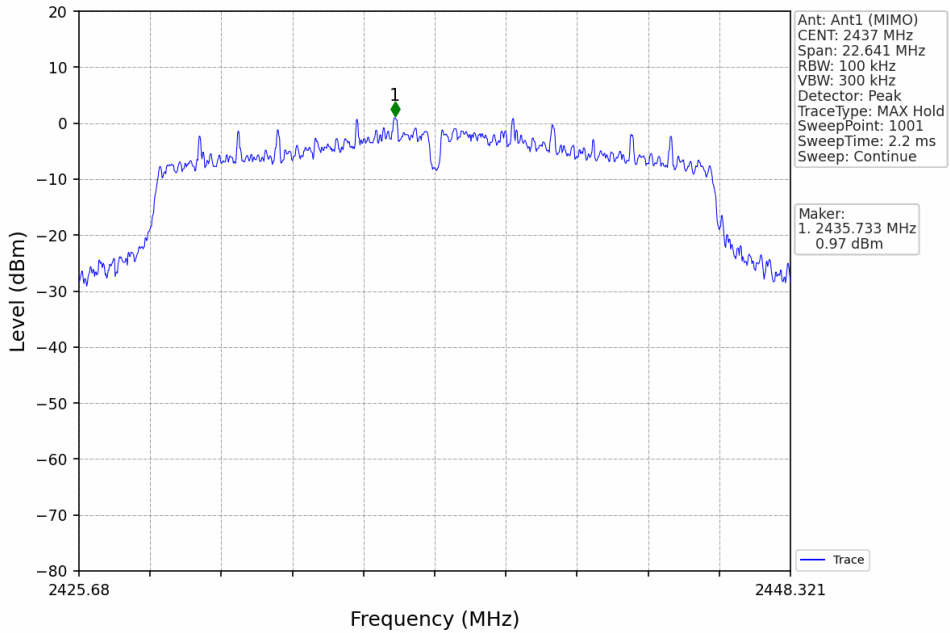
802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



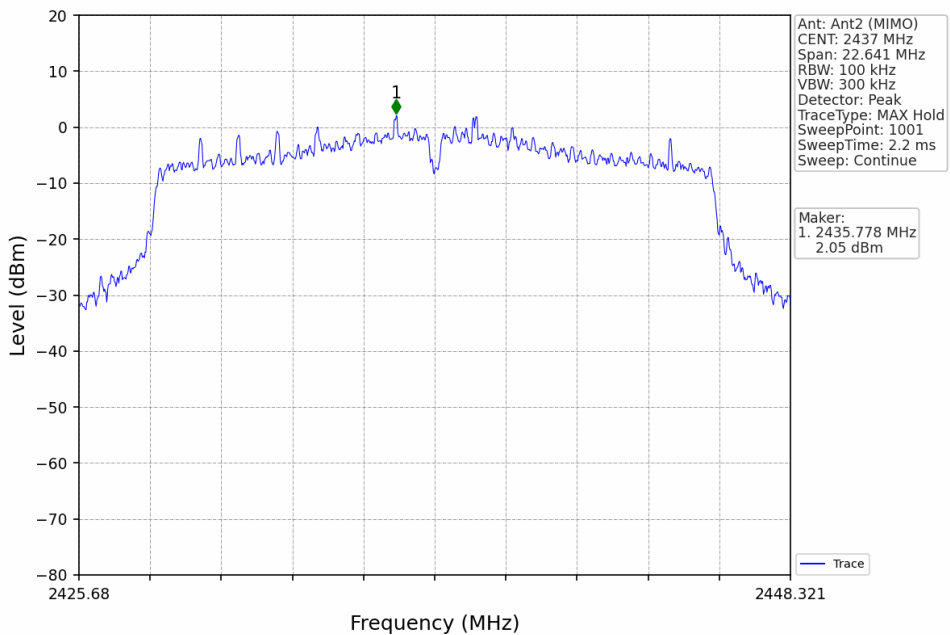
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



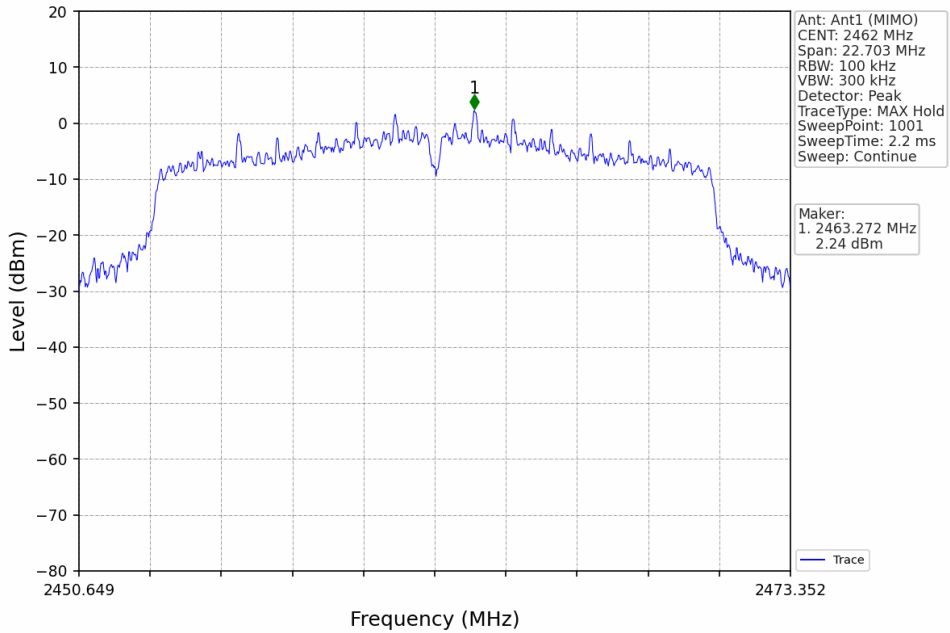
802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



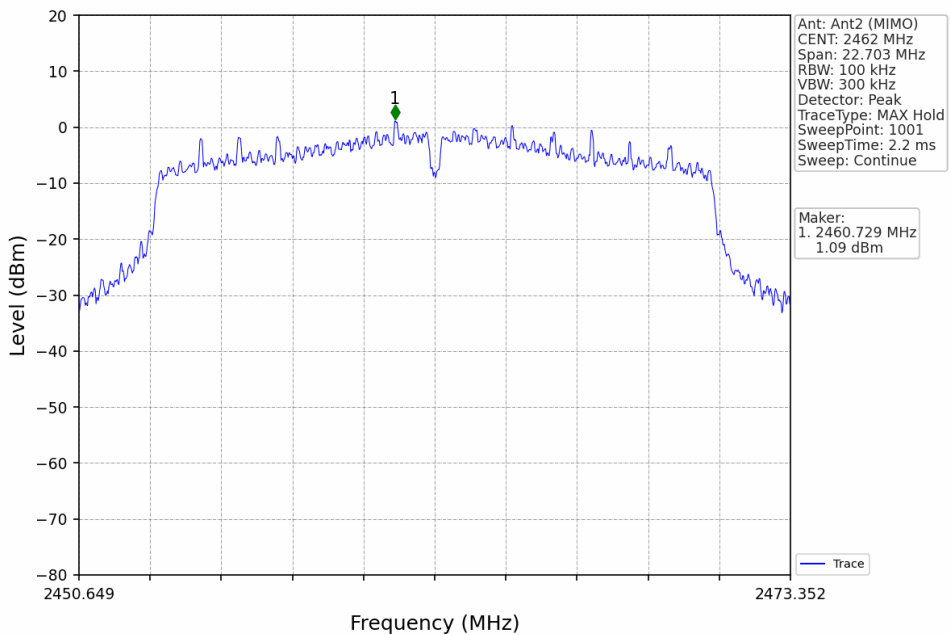
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV

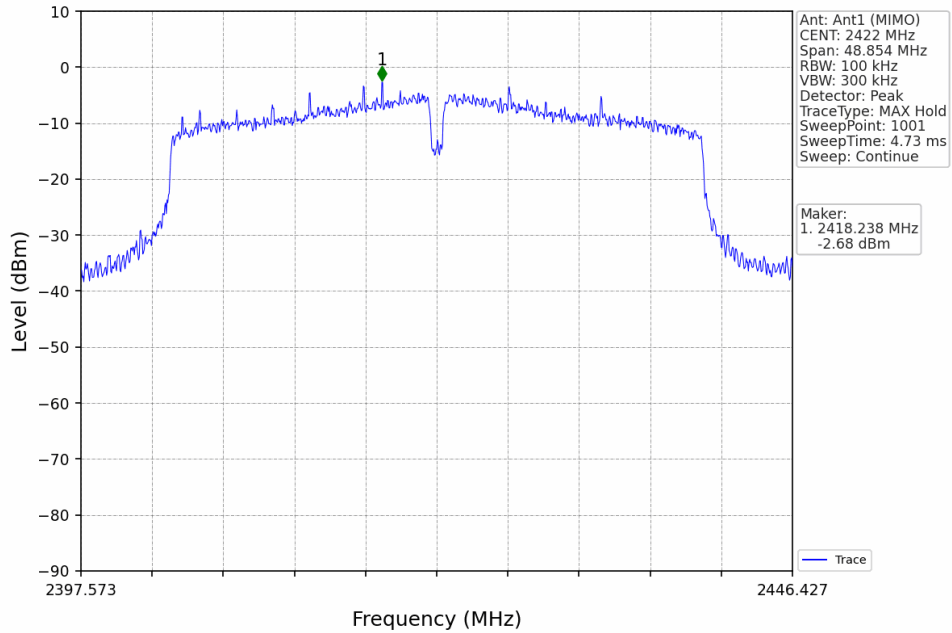


802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV

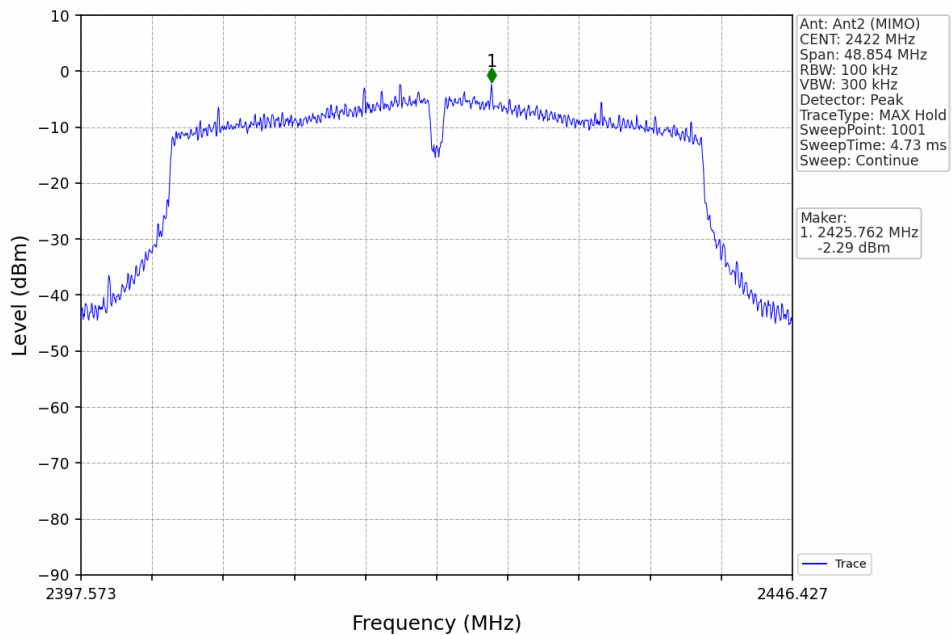


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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV

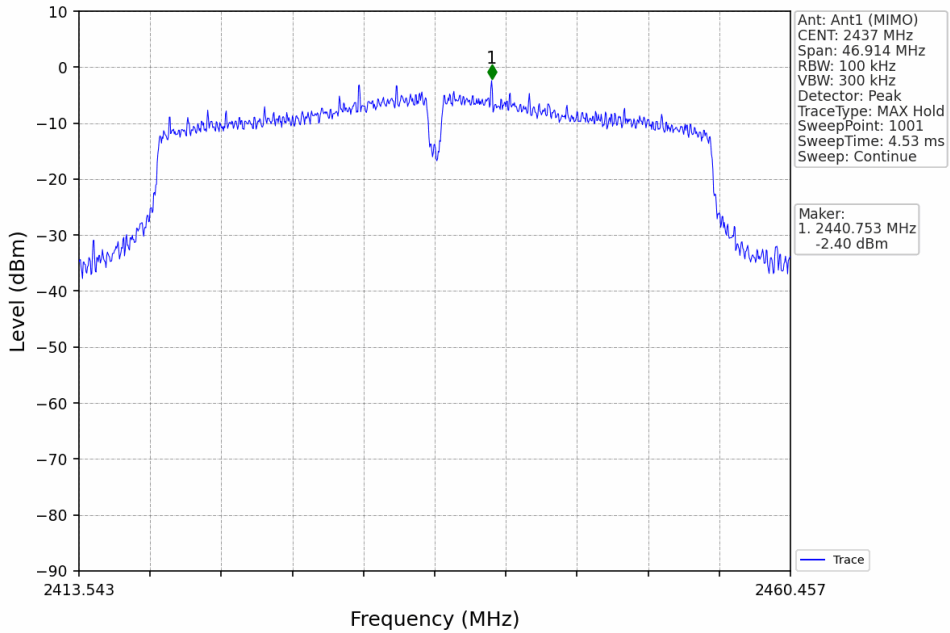


802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV

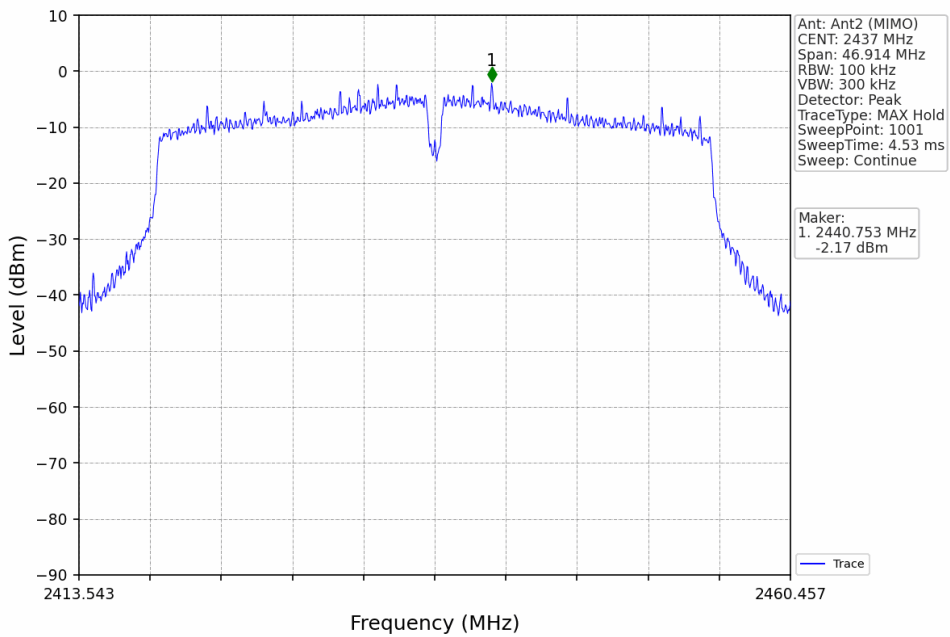


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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV

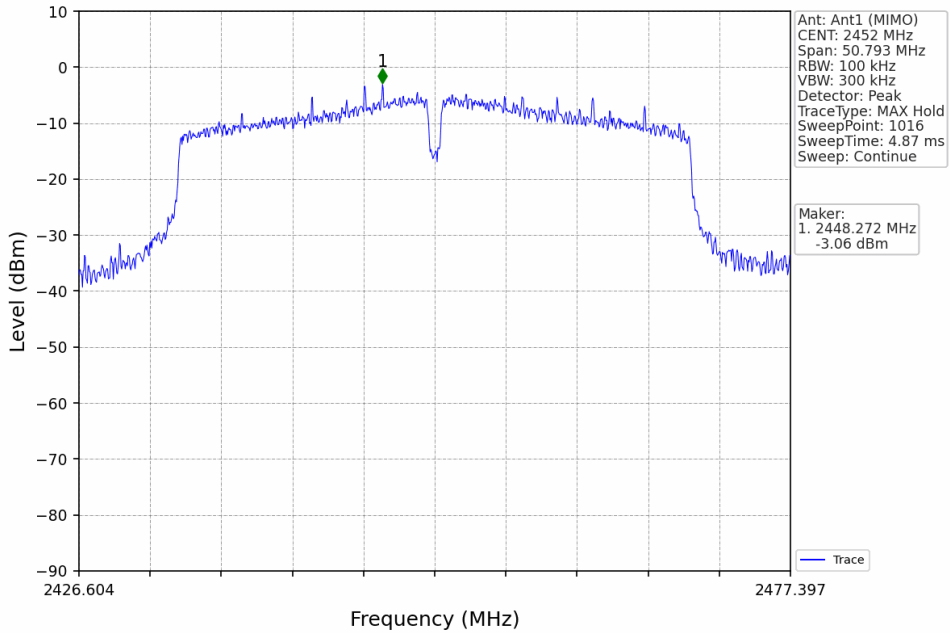


802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

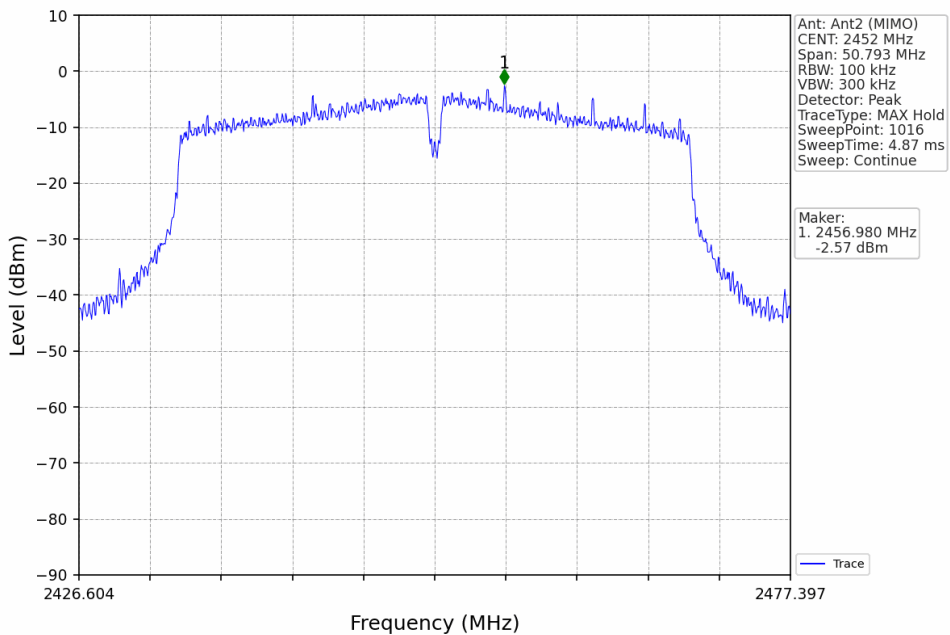


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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



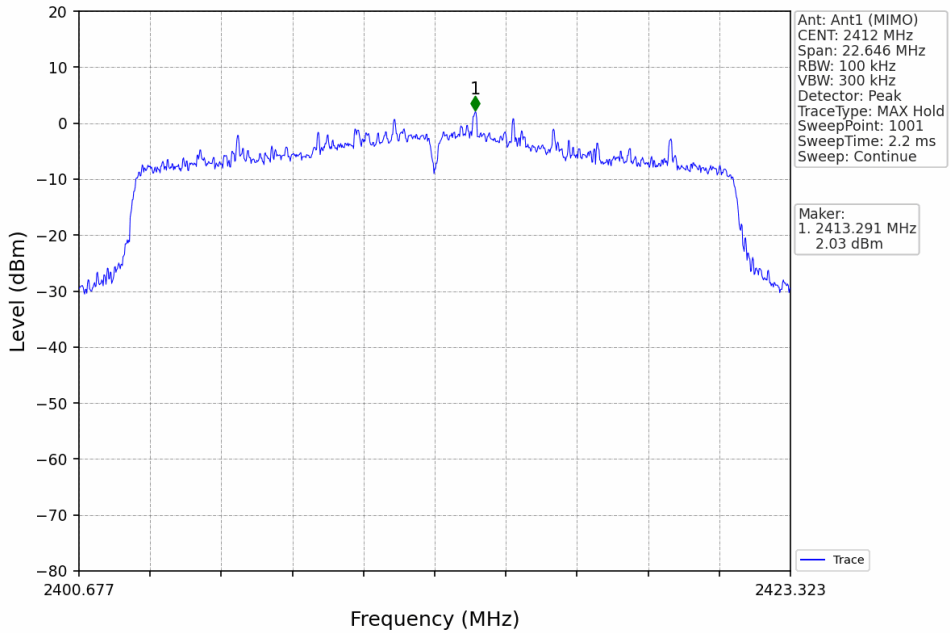
802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



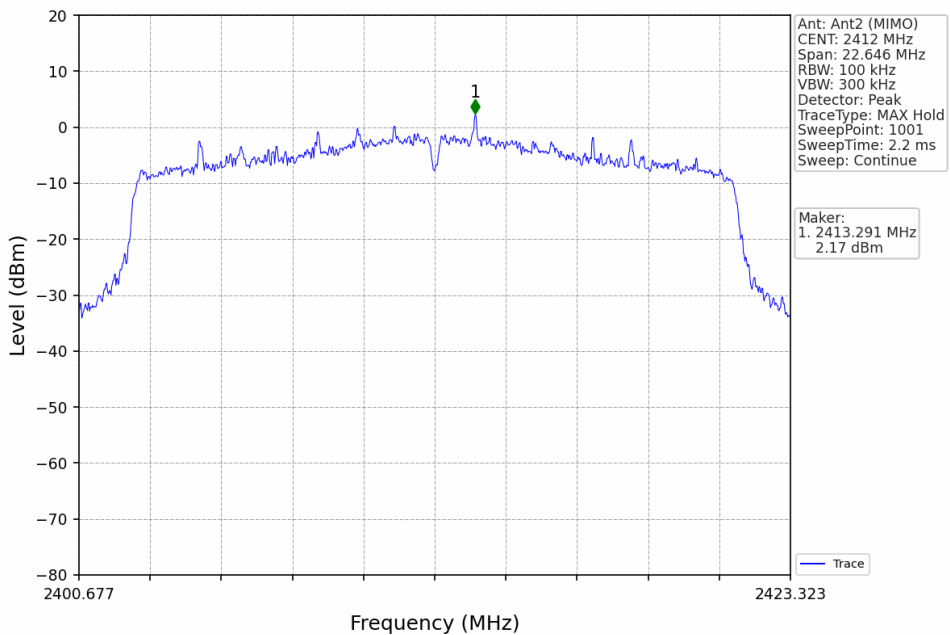
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802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV

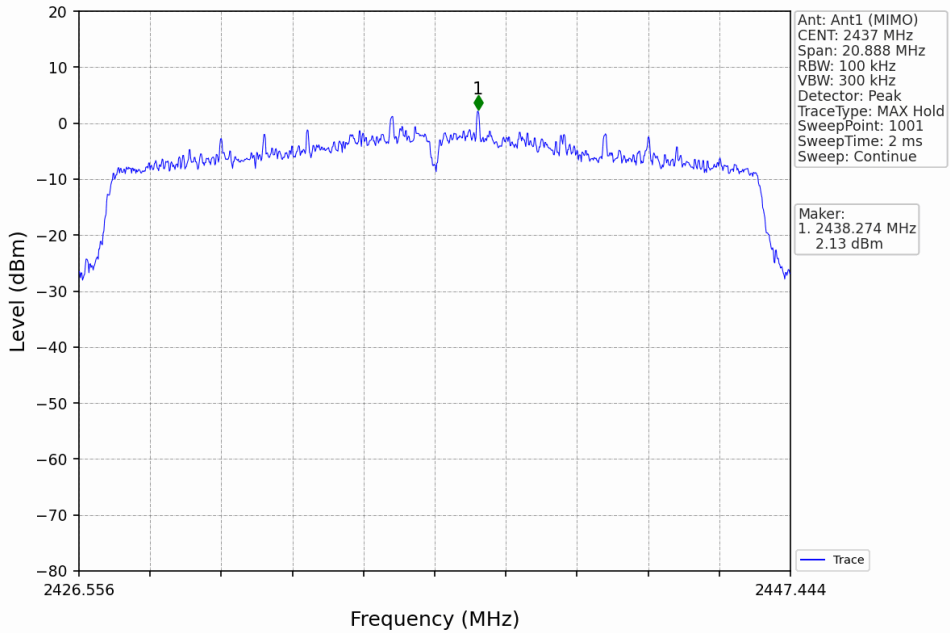


802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant2 (MIMO)\_NTNV

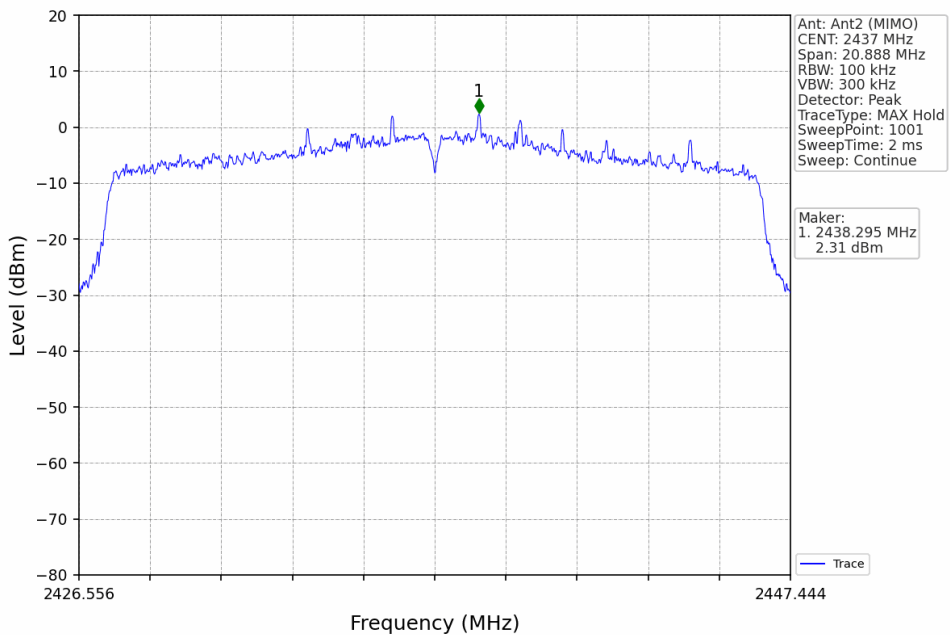


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802.11ax(HEW20)\_MCH\_2437MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV



802.11ax(HEW20)\_MCH\_2437MHz\_RU242\_Left\_Ant2 (MIMO)\_NTNV



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