

## 4. Maximum Power Spectral Density

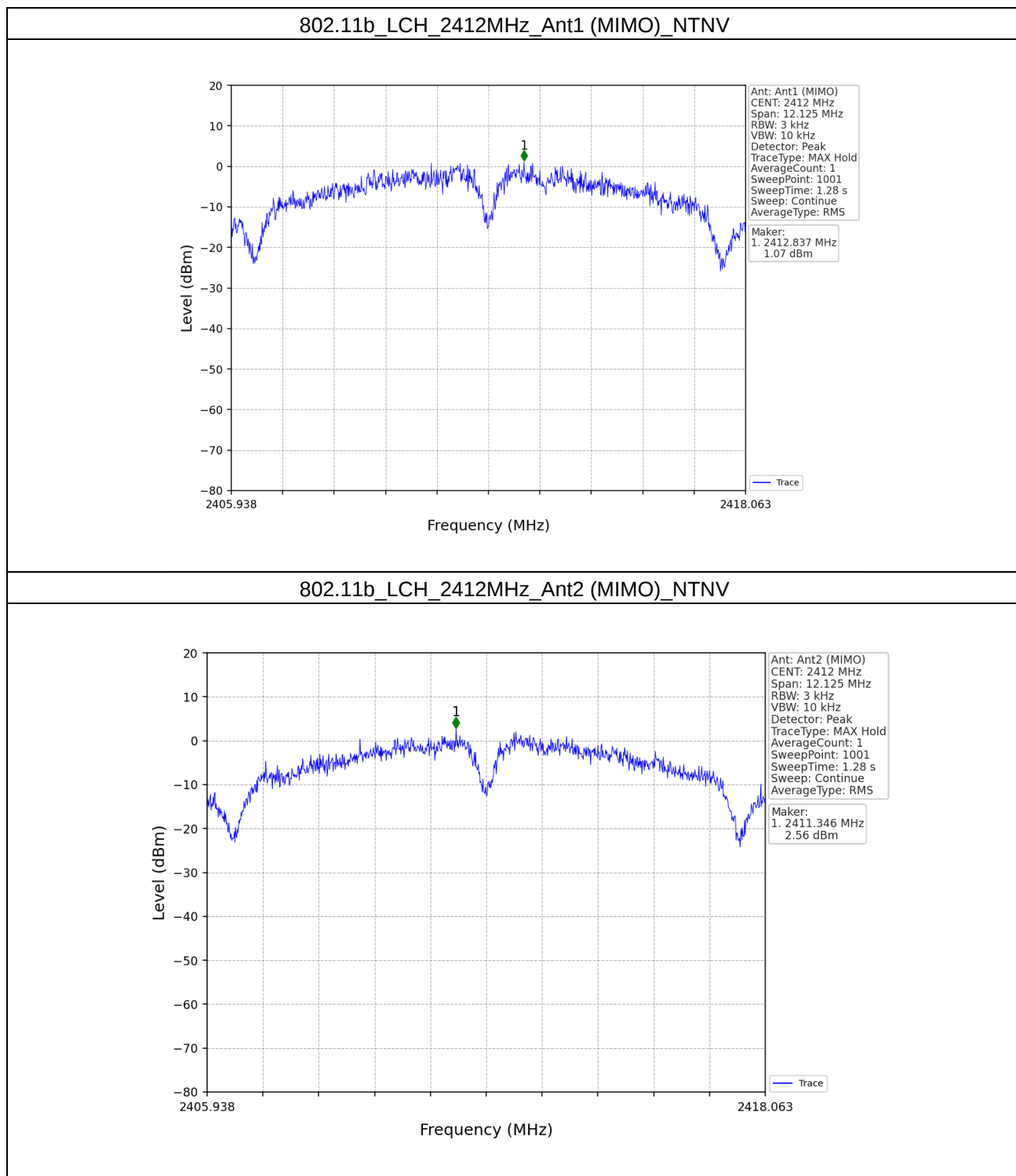
### 4.1 PSD

#### 4.1.1 Test Result

| Mode             | TX Type | Frequency (MHz) | RU    | RU Pos | Maximum PSD (dBm/3kHz) |       |       |       | Verdict |
|------------------|---------|-----------------|-------|--------|------------------------|-------|-------|-------|---------|
|                  |         |                 |       |        | ANT1                   | ANT2  | MIMO  | Limit |         |
| 802.11b          | MIMO    | 2412            | /     | /      | 1.07                   | 2.56  | 3.71  | <=8   | Pass    |
|                  |         | 2437            | /     | /      | 1.70                   | 1.74  | 3.51  | <=8   | Pass    |
|                  |         | 2462            | /     | /      | 1.97                   | 1.76  | 4.25  | <=8   | Pass    |
| 802.11g          | MIMO    | 2412            | /     | /      | -0.60                  | -0.60 | 1.70  | <=8   | Pass    |
|                  |         | 2437            | /     | /      | -0.17                  | -0.10 | 2.05  | <=8   | Pass    |
|                  |         | 2462            | /     | /      | 1.63                   | -0.37 | 2.74  | <=8   | Pass    |
| 802.11n (HT20)   | MIMO    | 2412            | /     | /      | 0.42                   | -0.62 | 2.38  | <=8   | Pass    |
|                  |         | 2437            | /     | /      | 0.38                   | 1.78  | 2.78  | <=8   | Pass    |
|                  |         | 2462            | /     | /      | -0.93                  | -0.14 | 1.99  | <=8   | Pass    |
| 802.11n (HT40)   | MIMO    | 2422            | /     | /      | -4.15                  | -3.39 | -1.83 | <=8   | Pass    |
|                  |         | 2437            | /     | /      | -4.24                  | -2.75 | -1.73 | <=8   | Pass    |
|                  |         | 2452            | /     | /      | -4.19                  | -3.10 | -1.28 | <=8   | Pass    |
| 802.11ax (HEW20) | MIMO    | 2412            | RU242 | Left   | -0.33                  | -0.55 | 1.48  | <=8   | Pass    |
|                  |         | 2437            | RU242 | Left   | -0.99                  | -1.07 | 0.70  | <=8   | Pass    |
|                  |         | 2462            | RU242 | Left   | -1.34                  | -1.54 | 0.67  | <=8   | Pass    |
| 802.11ax (HEW40) | MIMO    | 2422            | RU484 | Left   | -5.31                  | -3.65 | -2.57 | <=8   | Pass    |
|                  |         | 2437            | RU484 | Left   | -5.09                  | -3.80 | -2.53 | <=8   | Pass    |
|                  |         | 2452            | RU484 | Left   | -4.64                  | -4.38 | -2.37 | <=8   | Pass    |



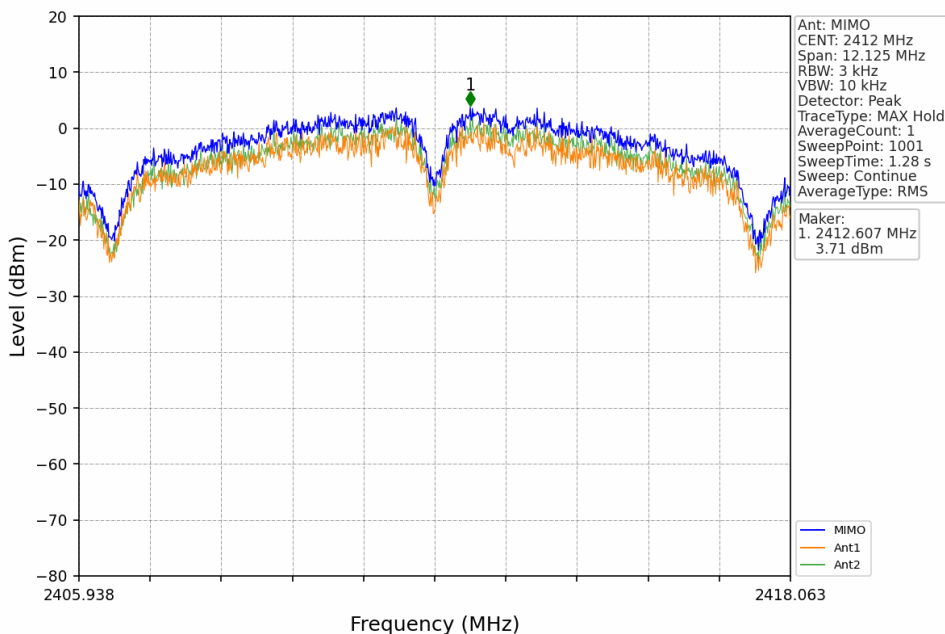
### 4.1.2 Test Graph



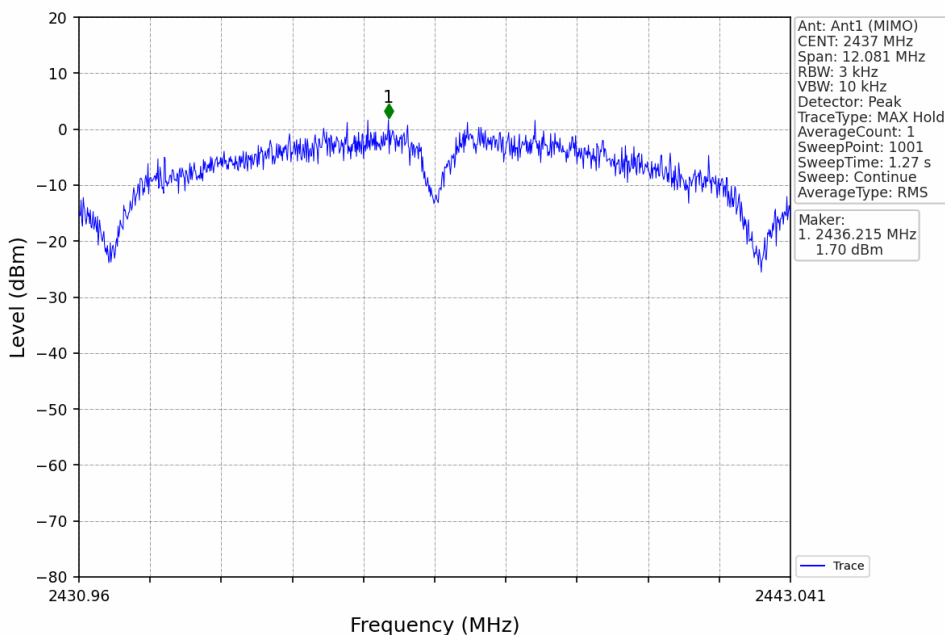
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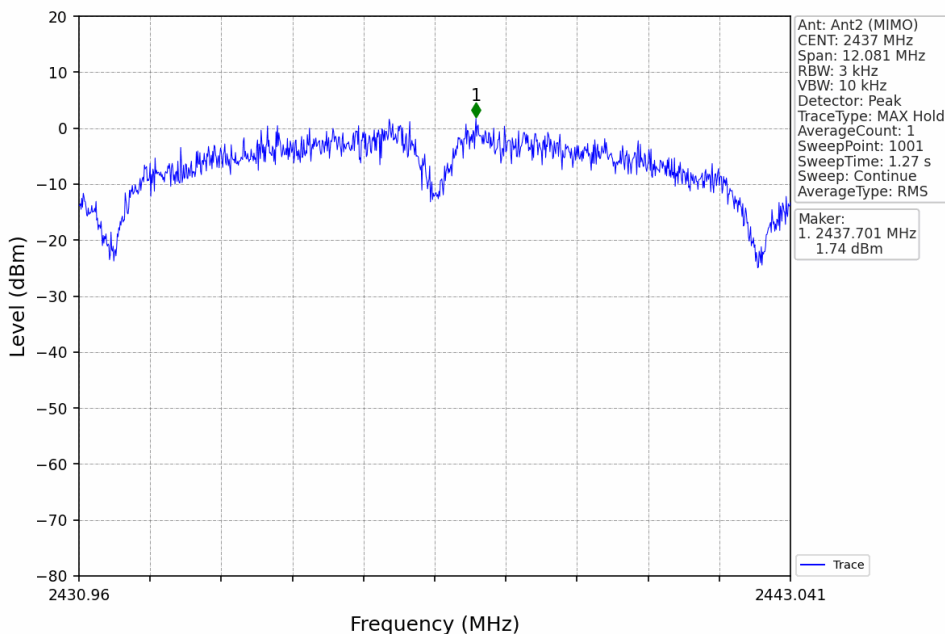
### 802.11b\_LCH\_2412MHz\_MIMO\_NTNV



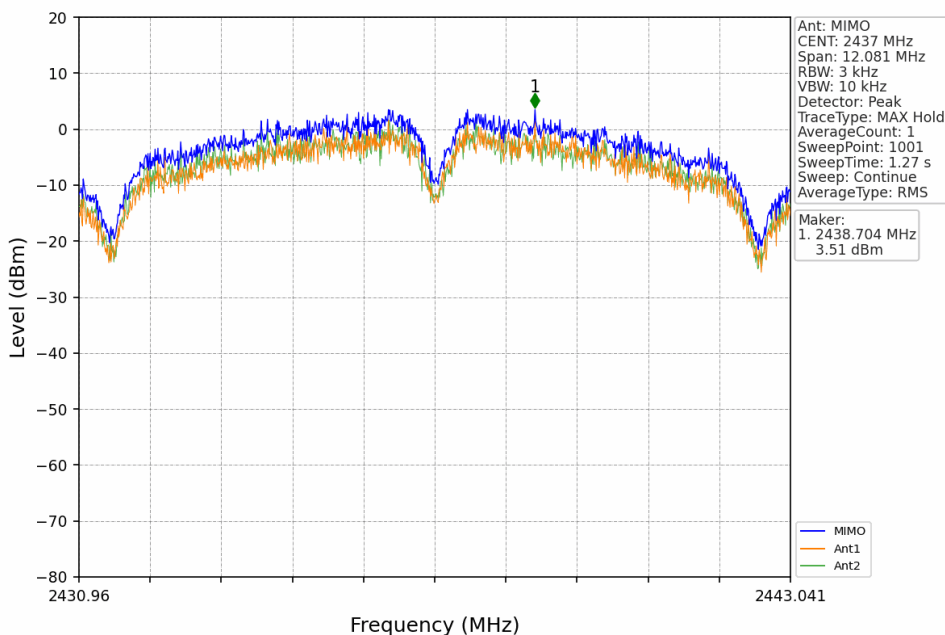
### 802.11b\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



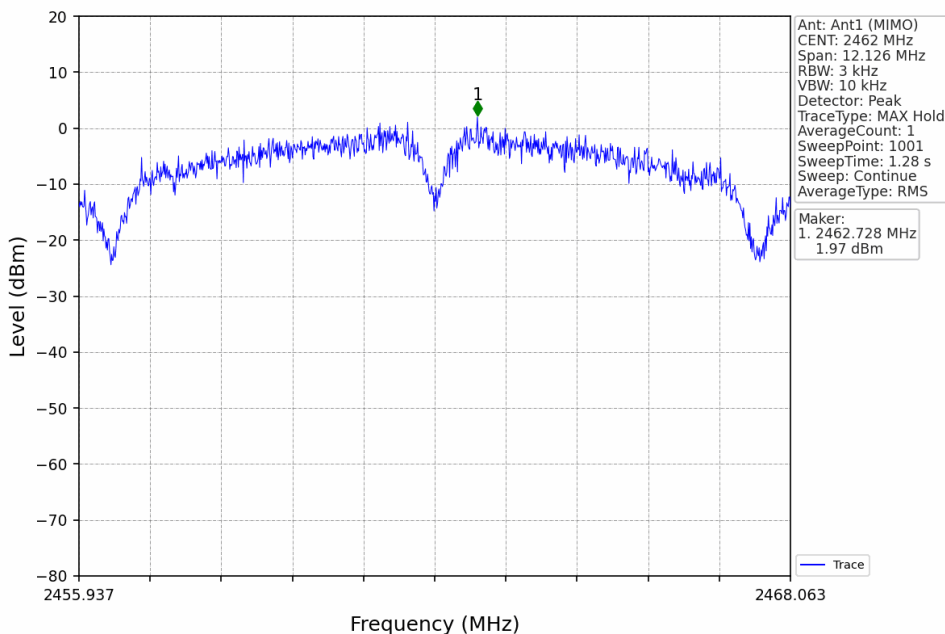
802.11b\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



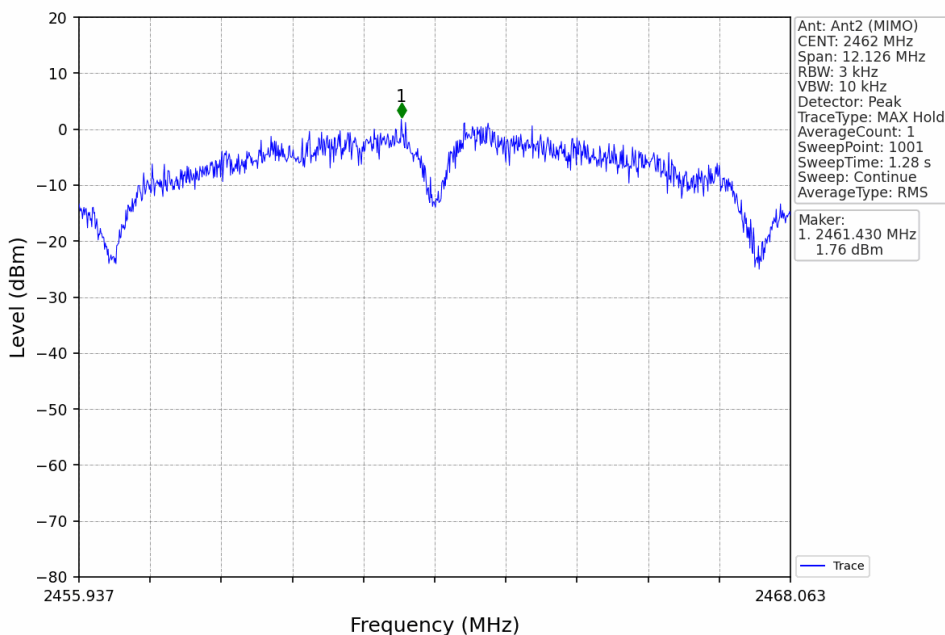
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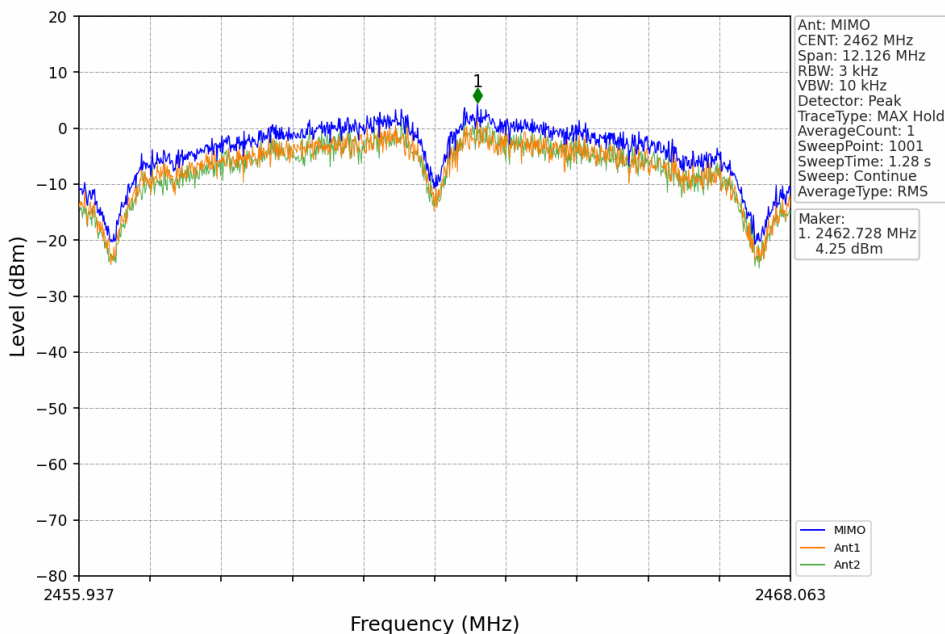
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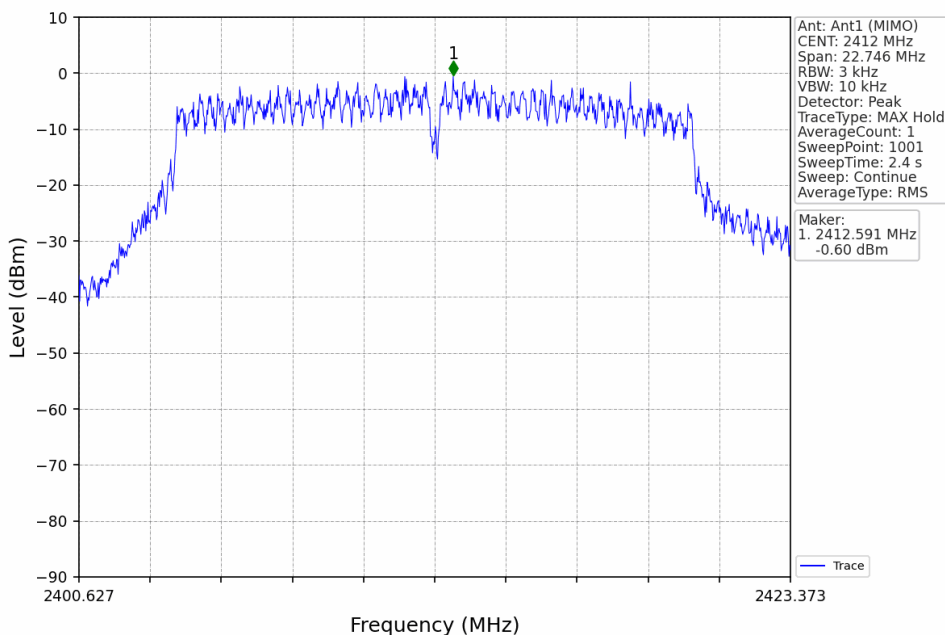
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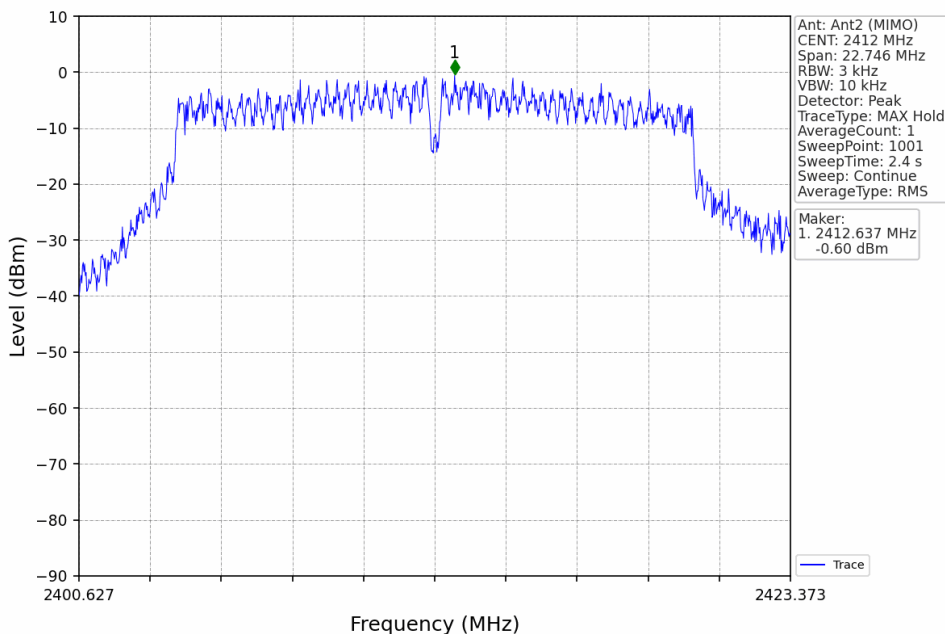
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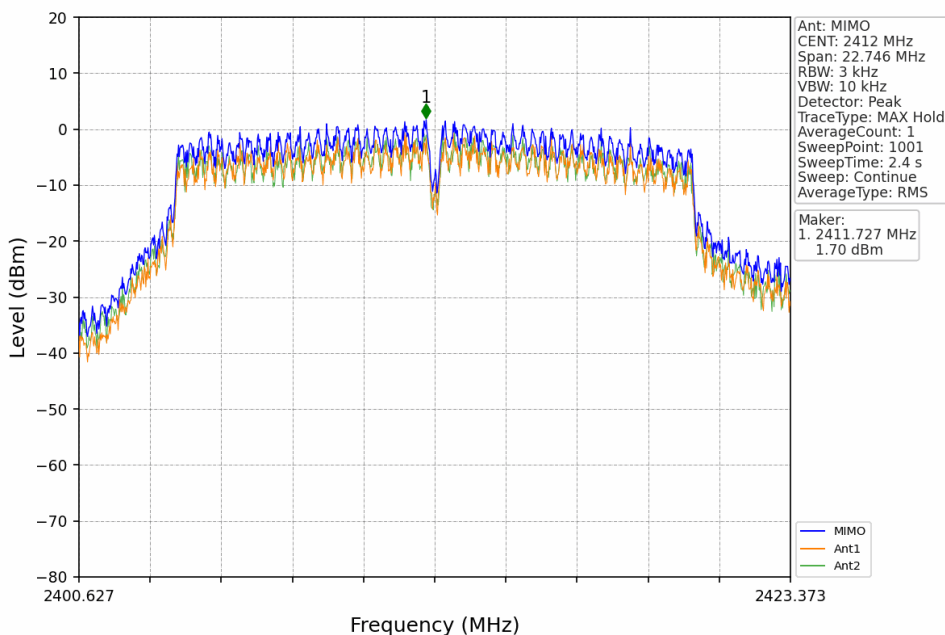
802.11g\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



802.11g\_LCH\_2412MHz\_MIMO\_NTNV



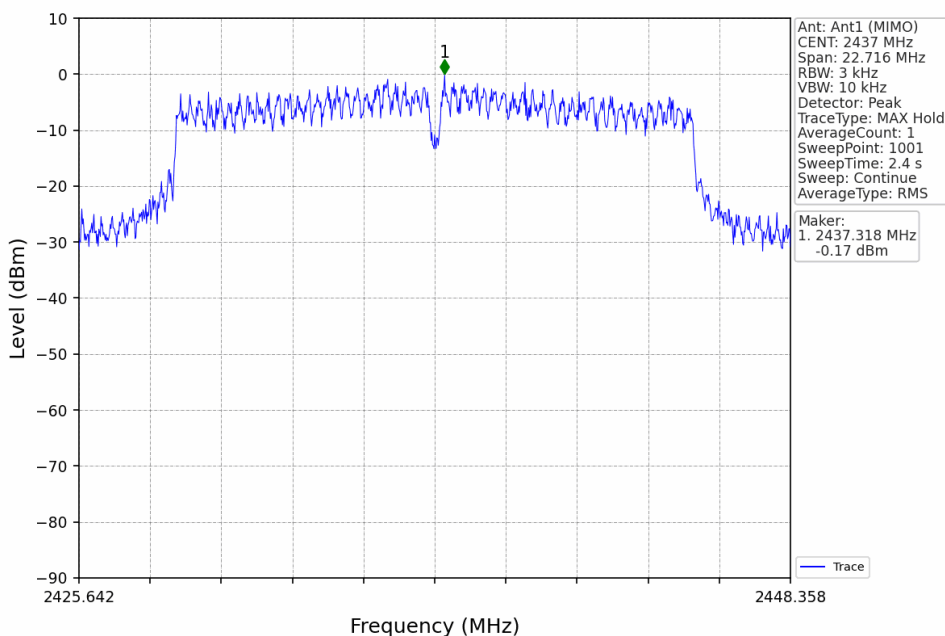
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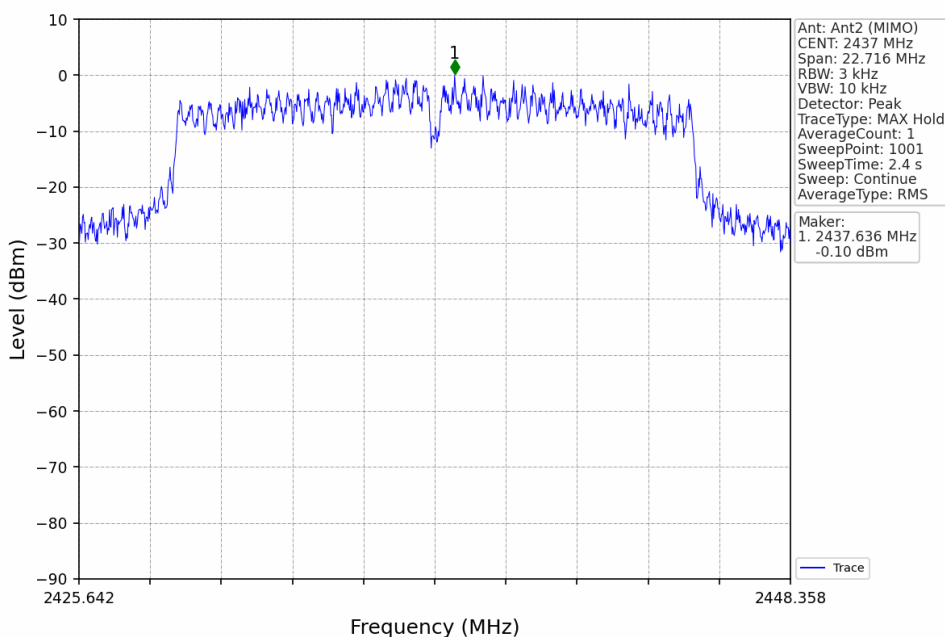
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802.11g\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



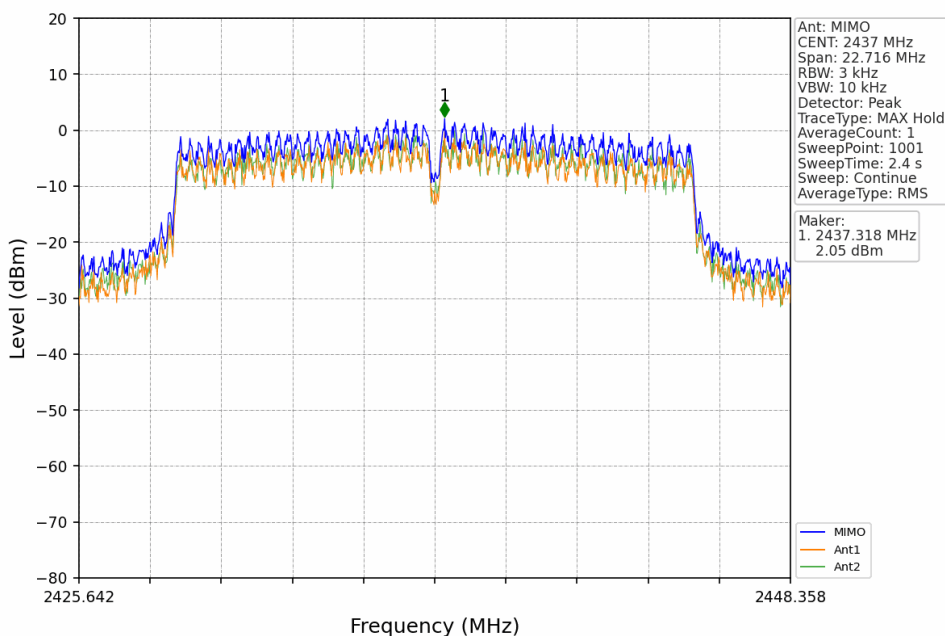
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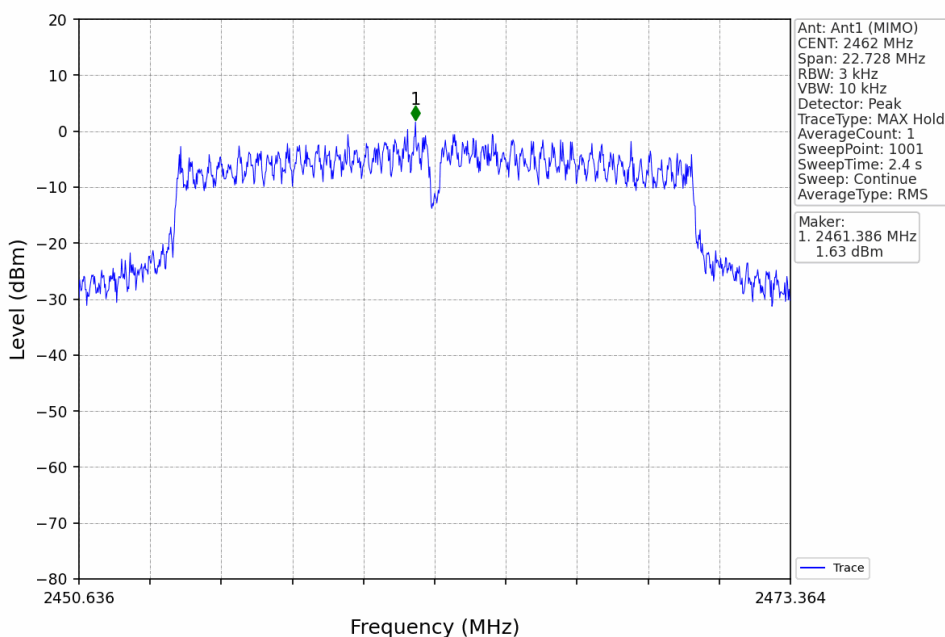
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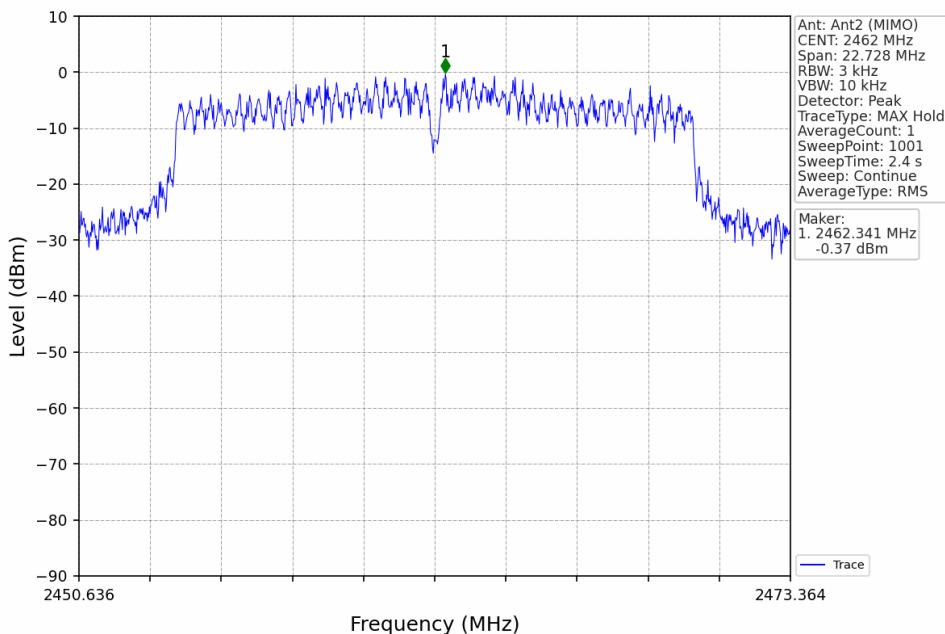
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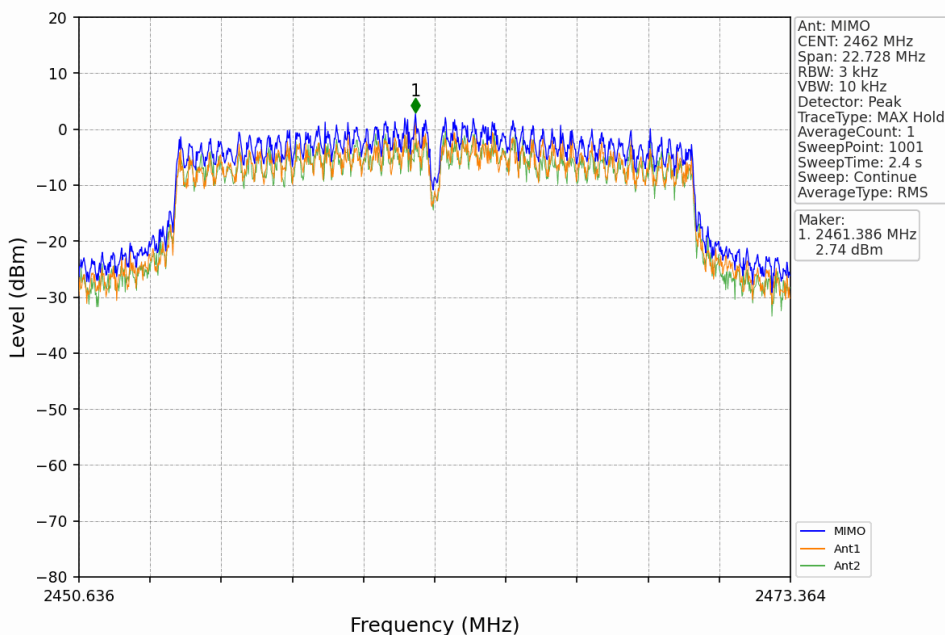
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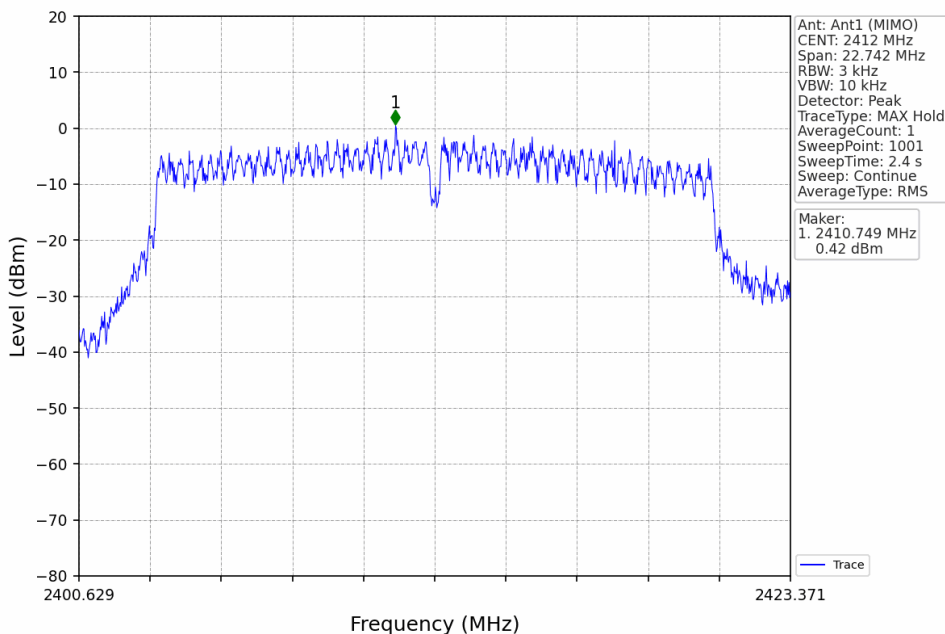
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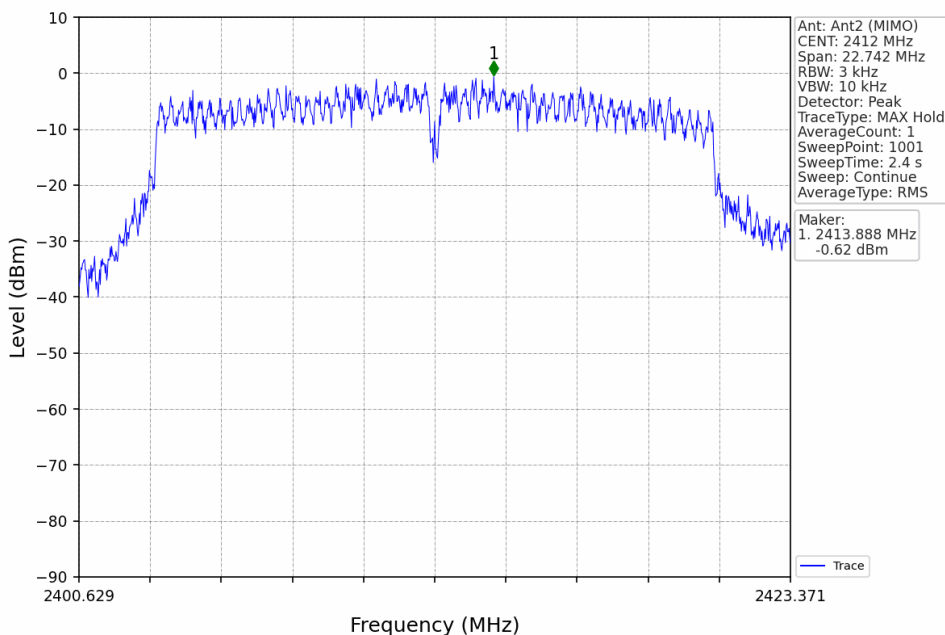
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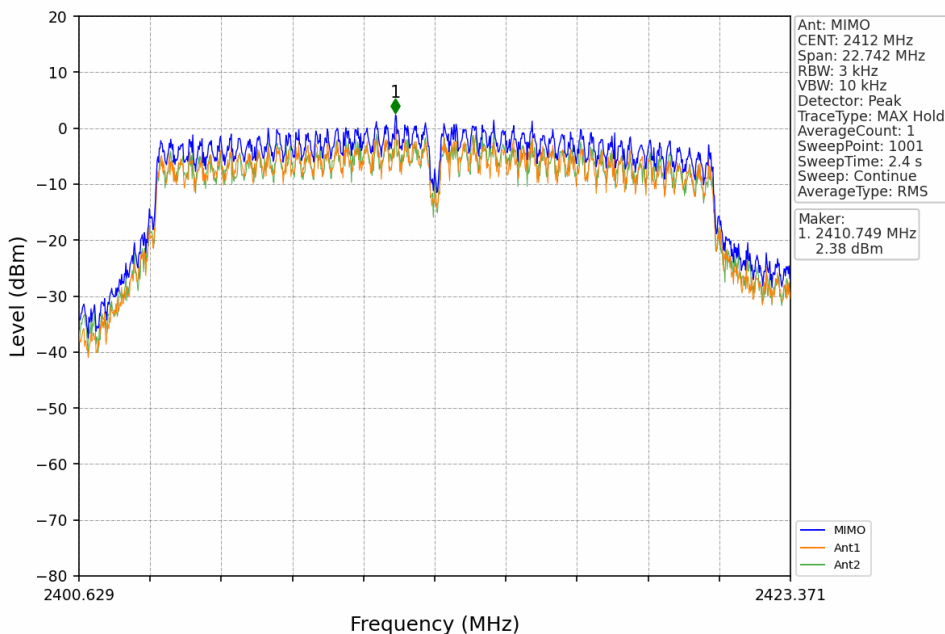
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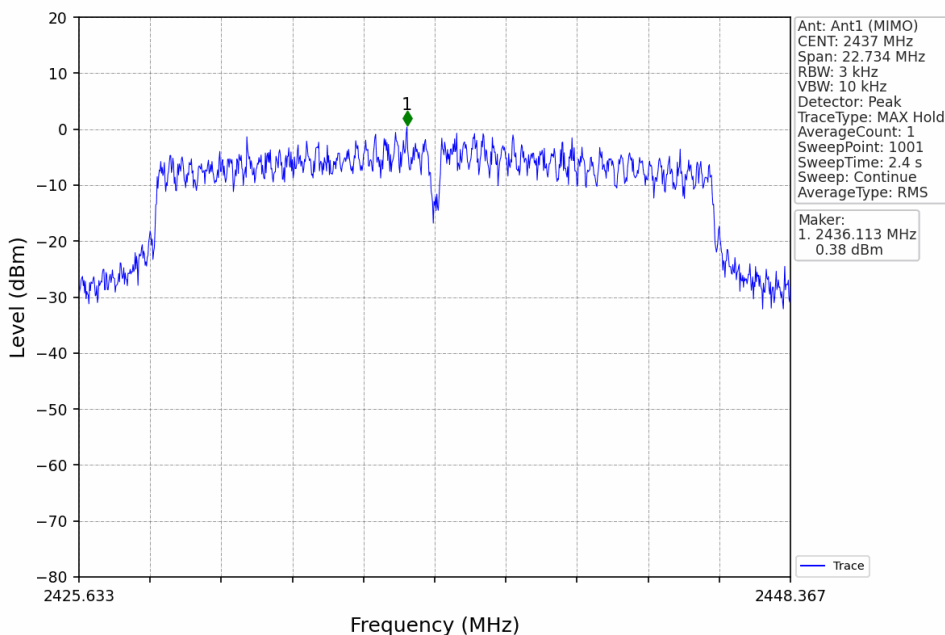
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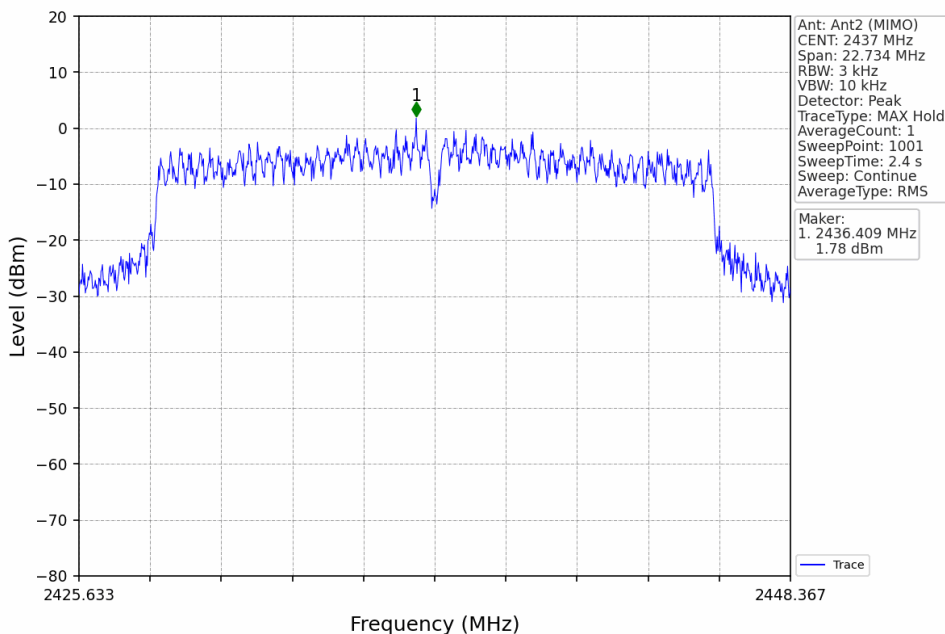
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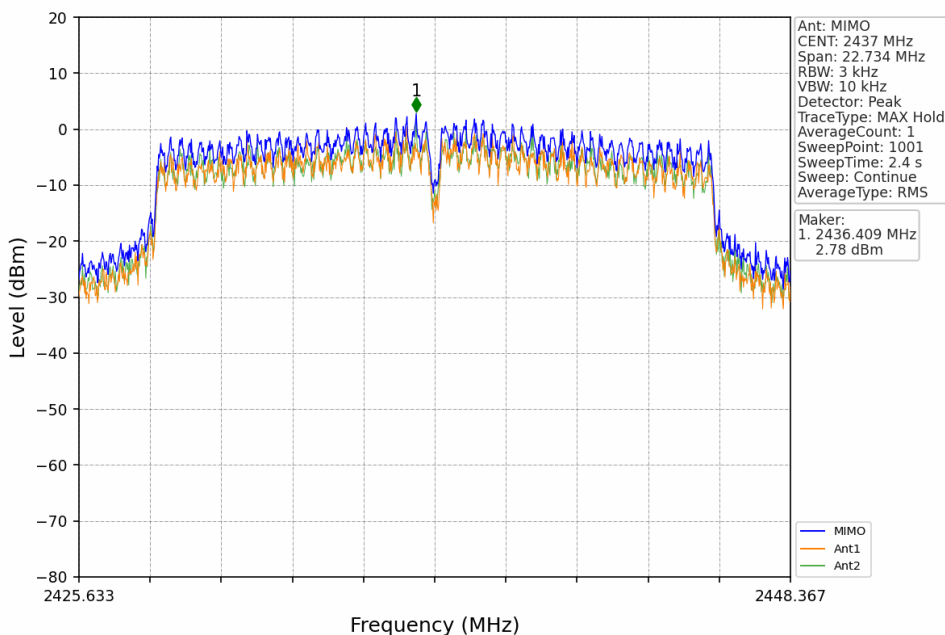
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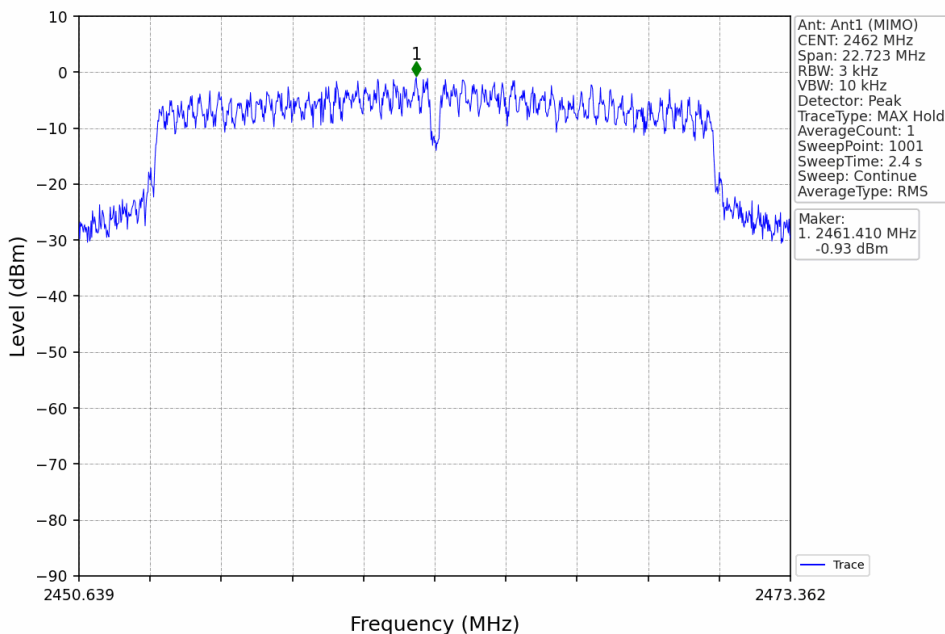
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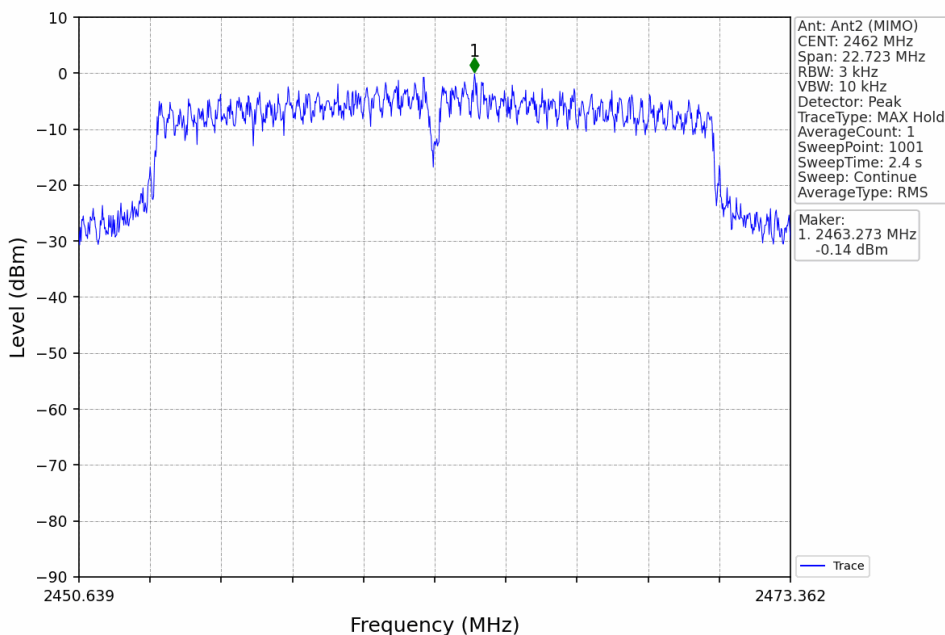
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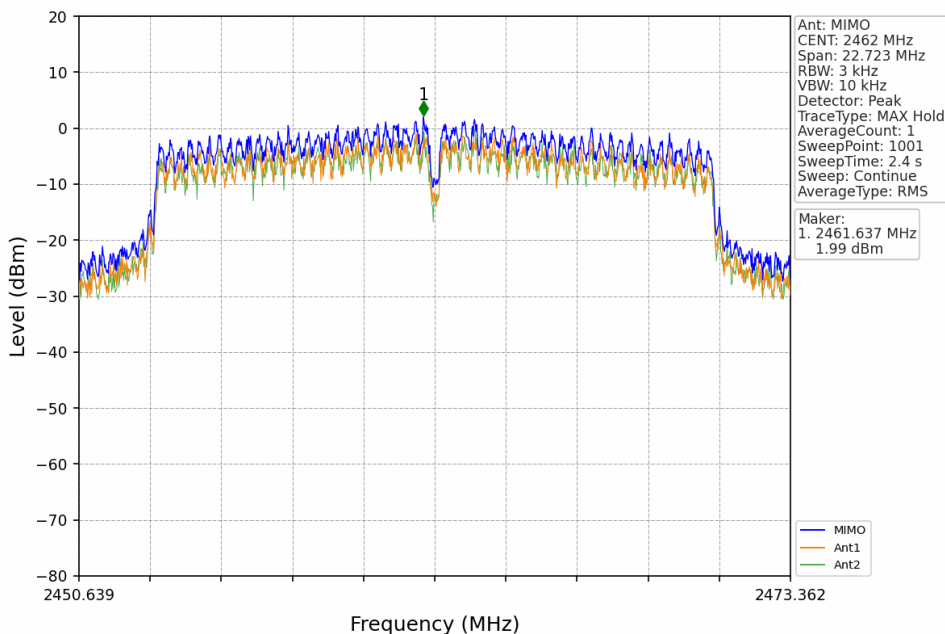
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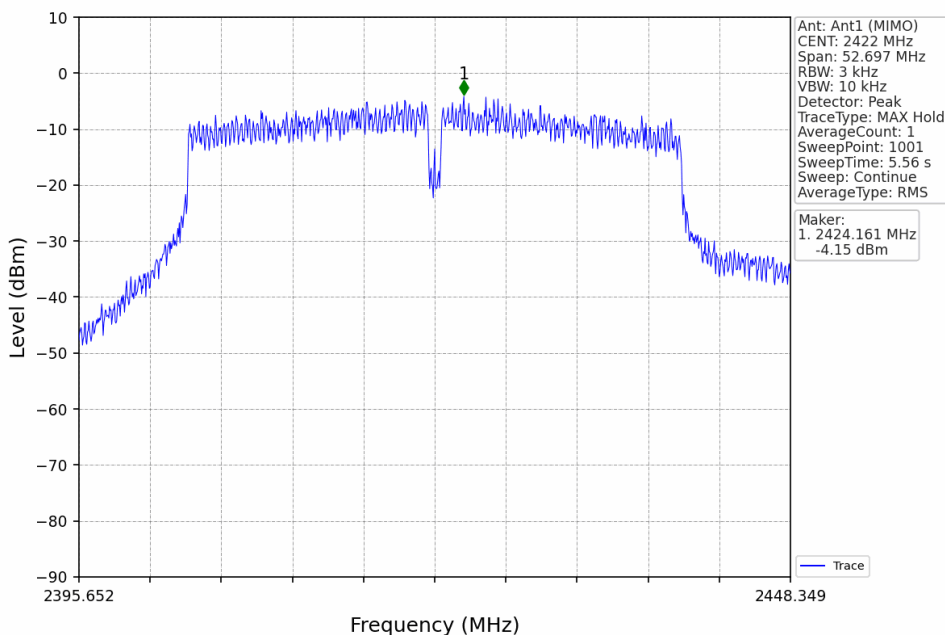
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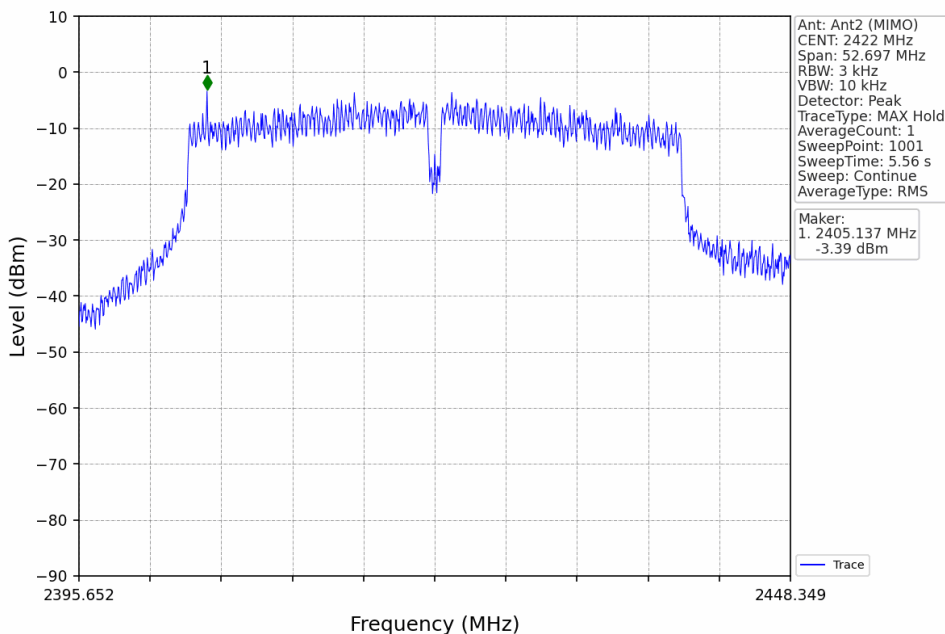
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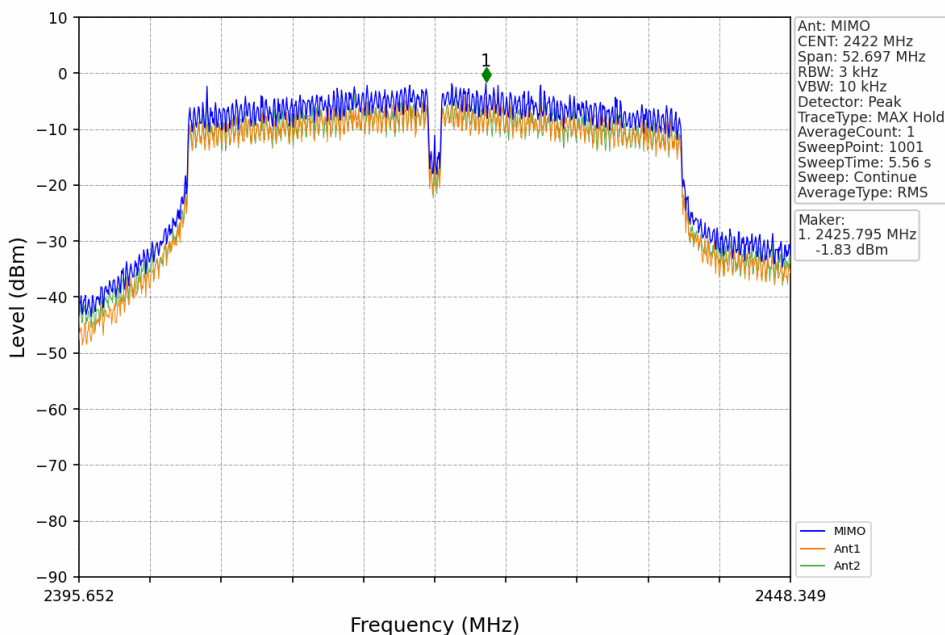
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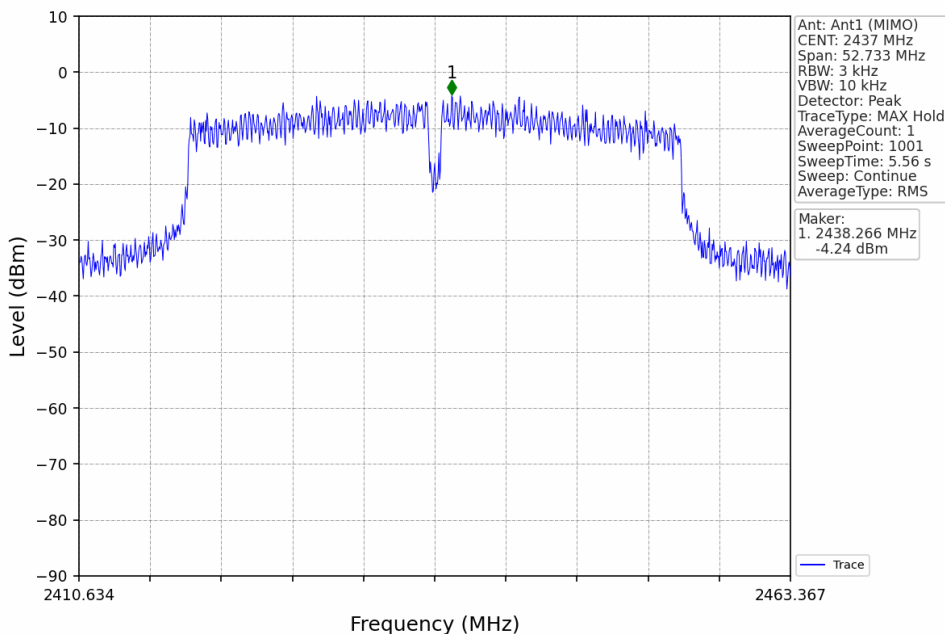
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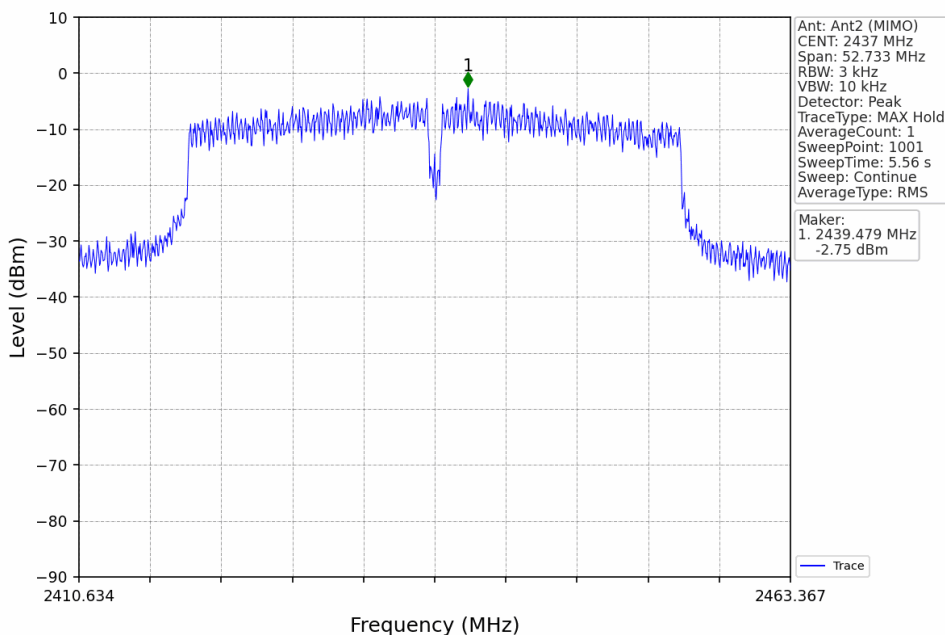
802.11n(HT40)\_LCH\_2422MHz\_MIMO\_NTNV



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



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



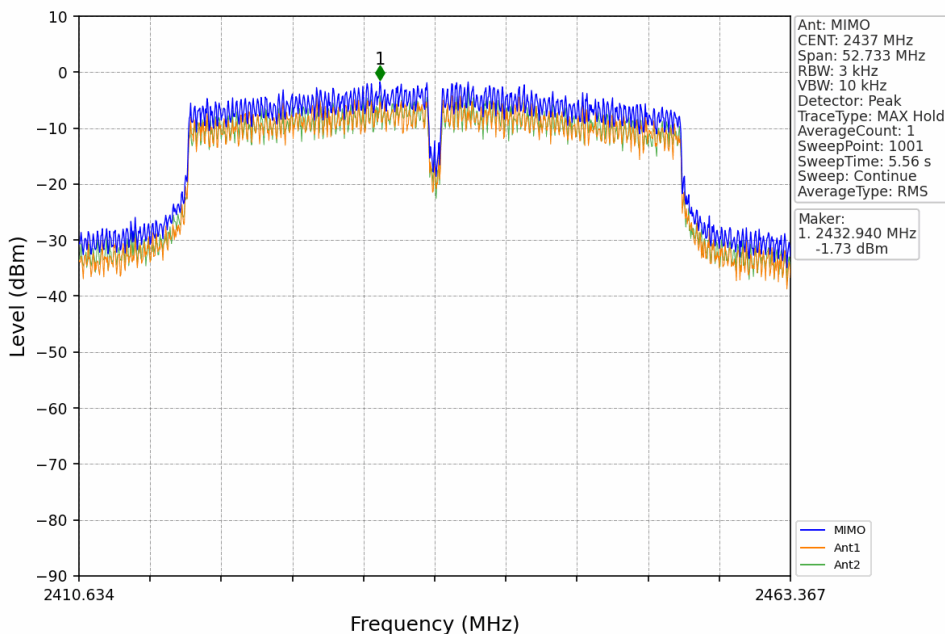
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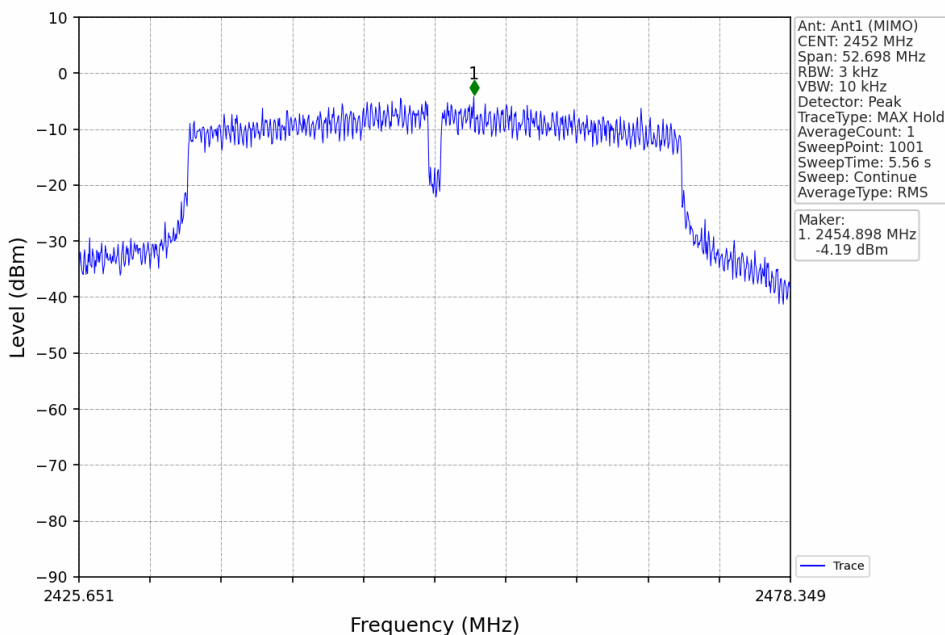
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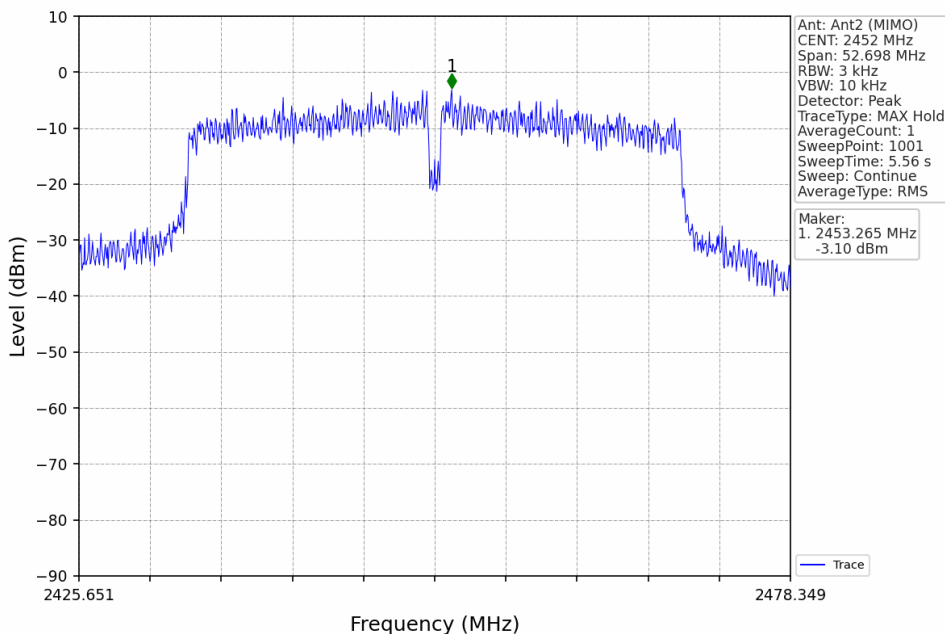
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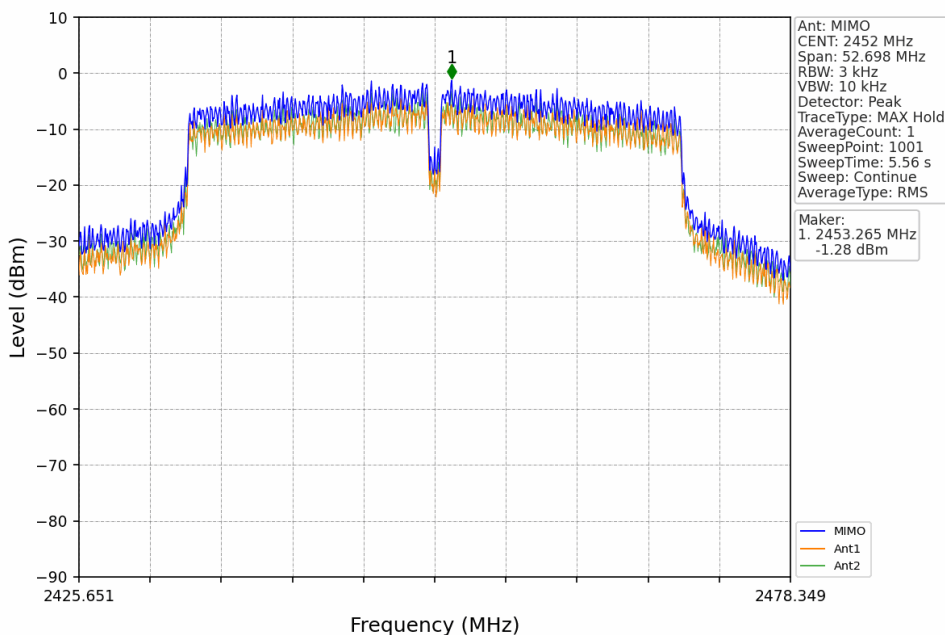
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802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



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



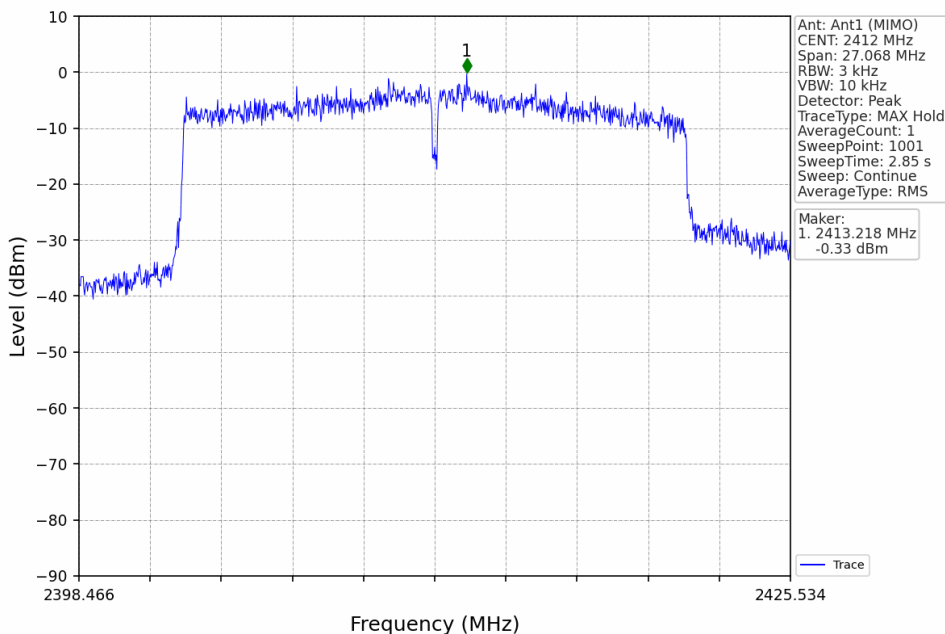
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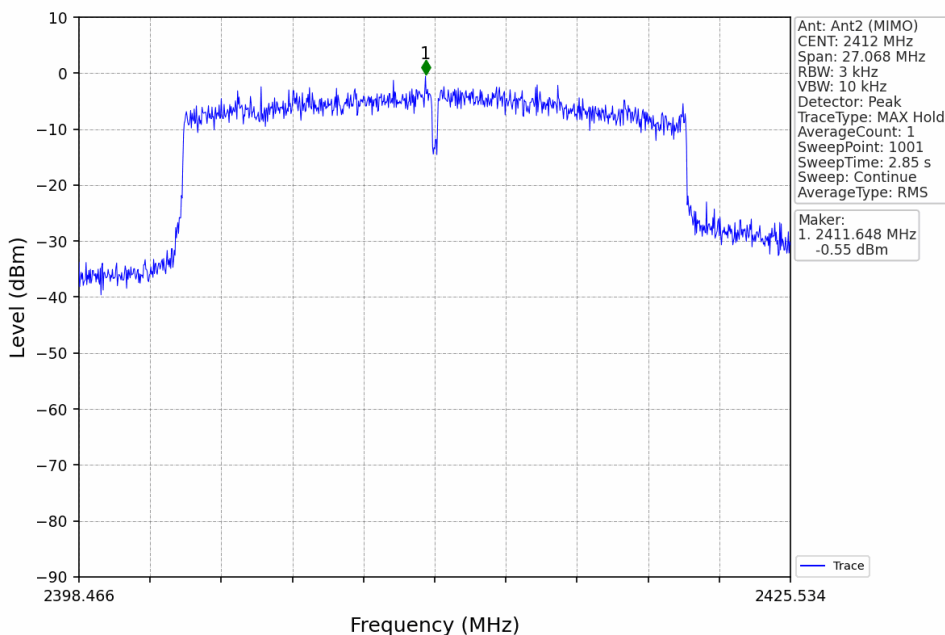
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802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV



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



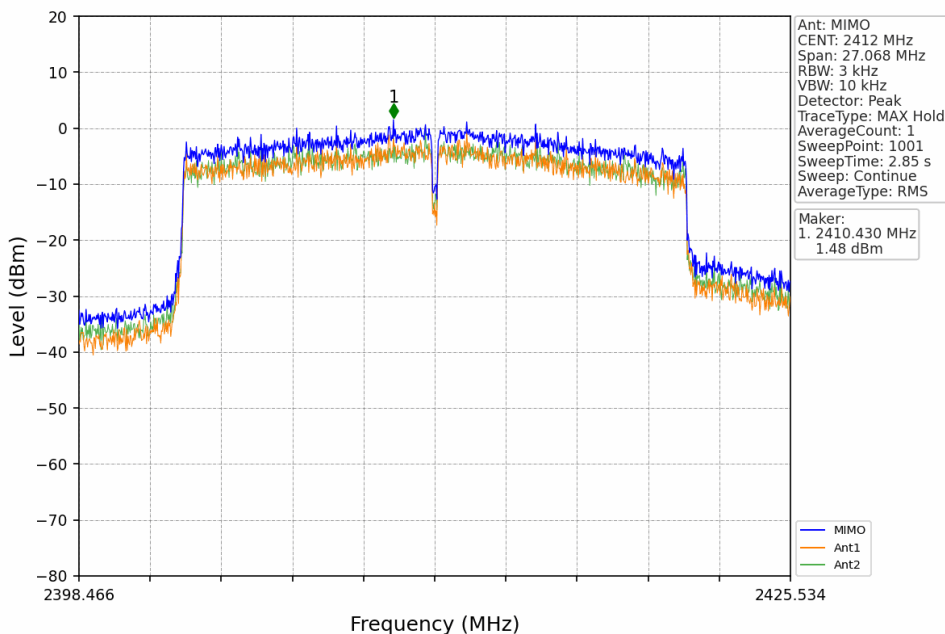
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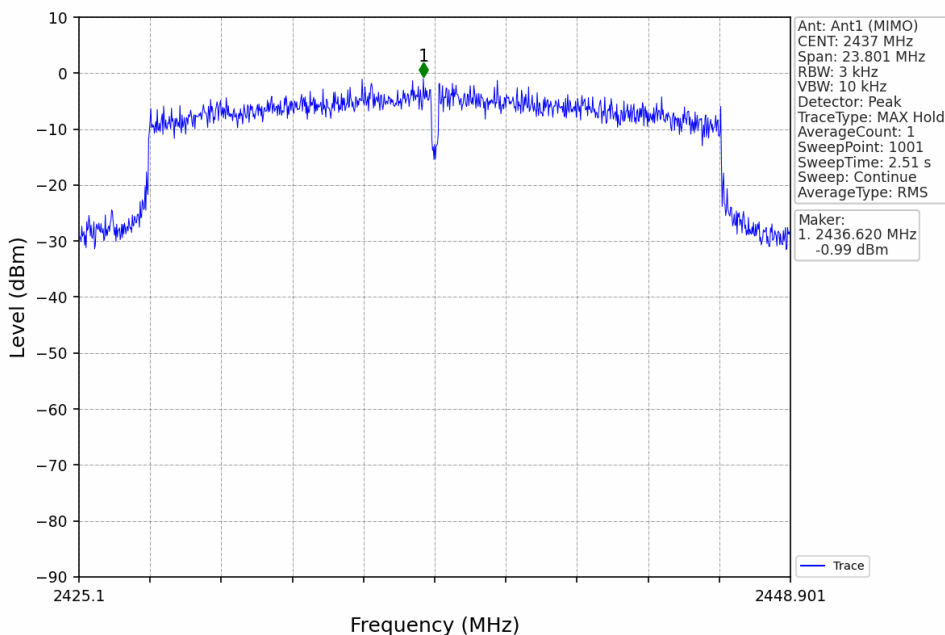
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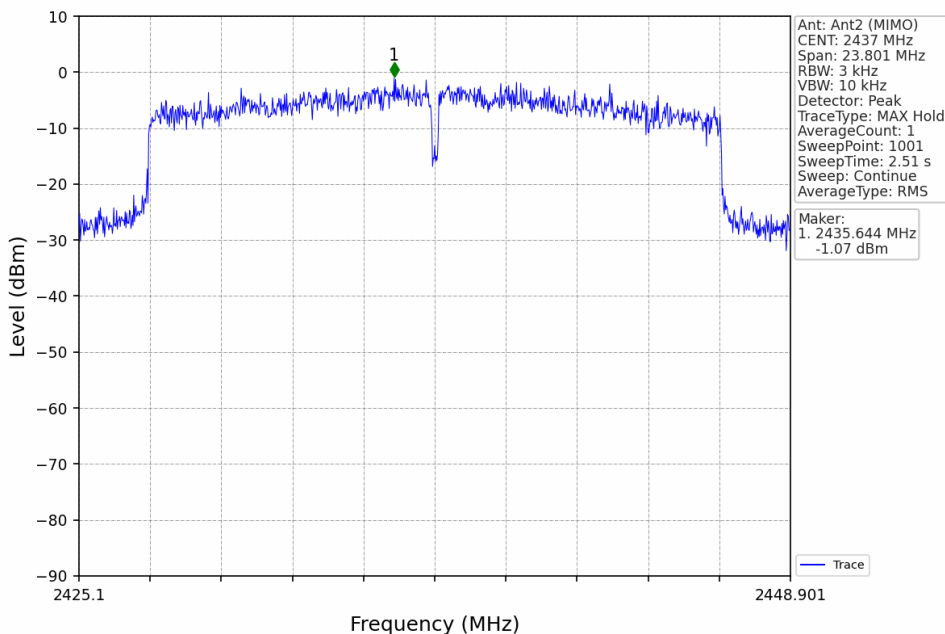
802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_MIMO\_NTNV



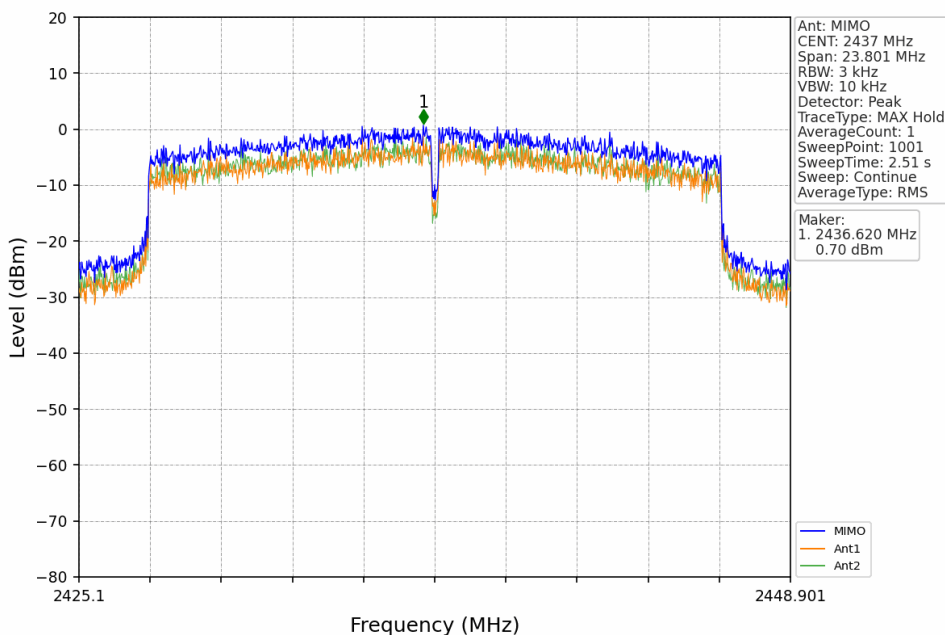
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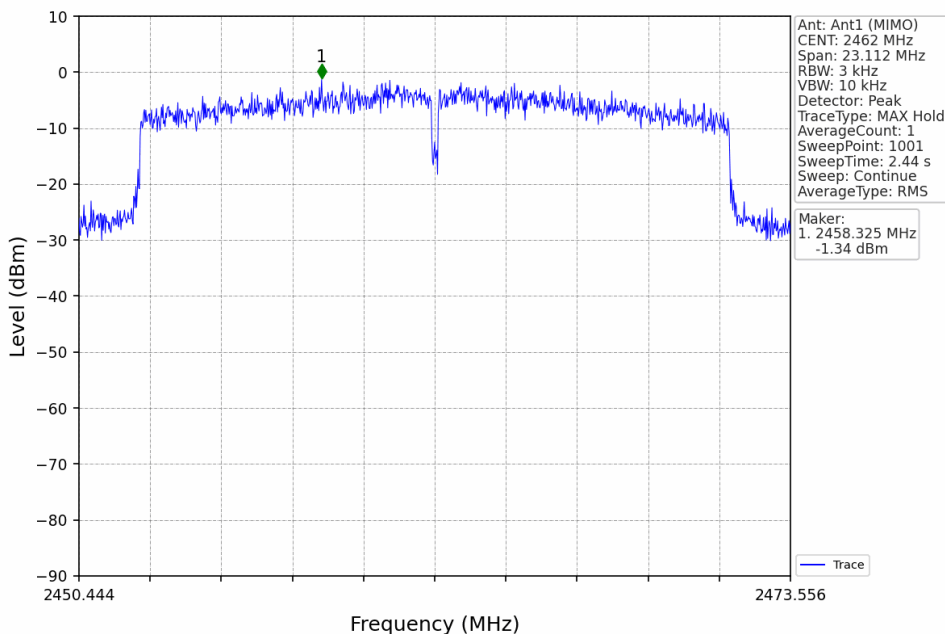
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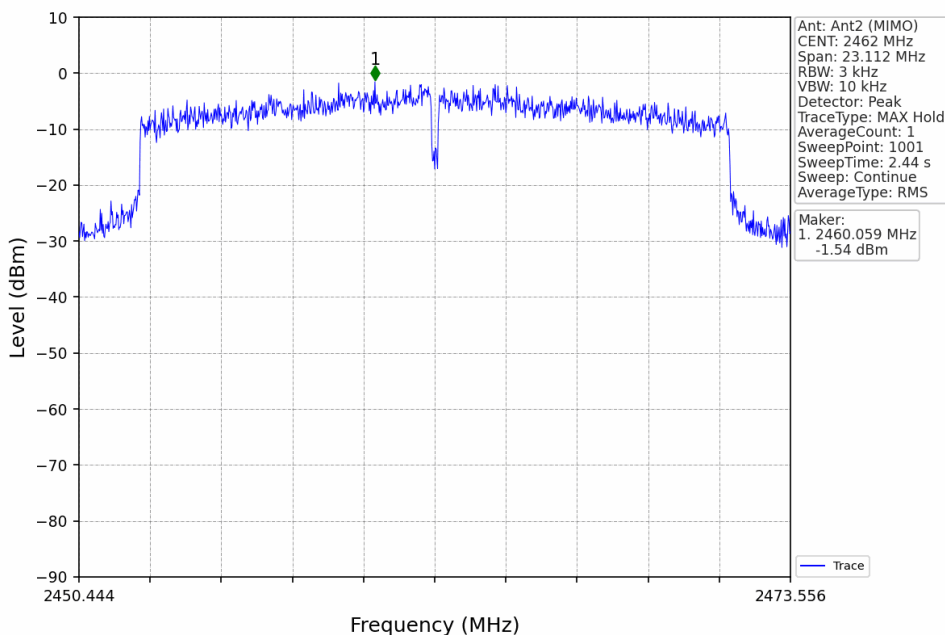
802.11ax(HEW20)\_MCH\_2437MHz\_RU242\_Left\_MIMO\_NTNV



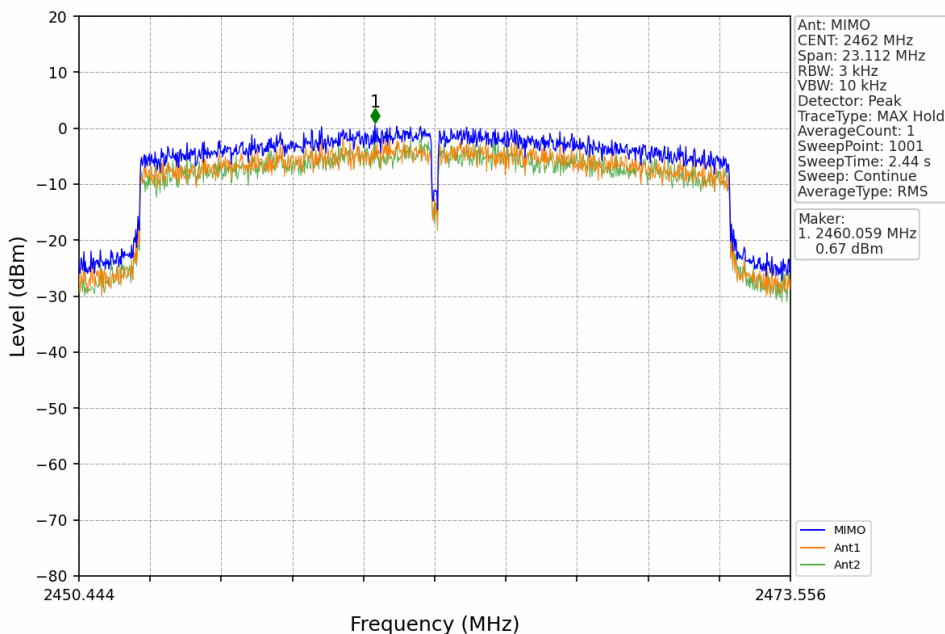
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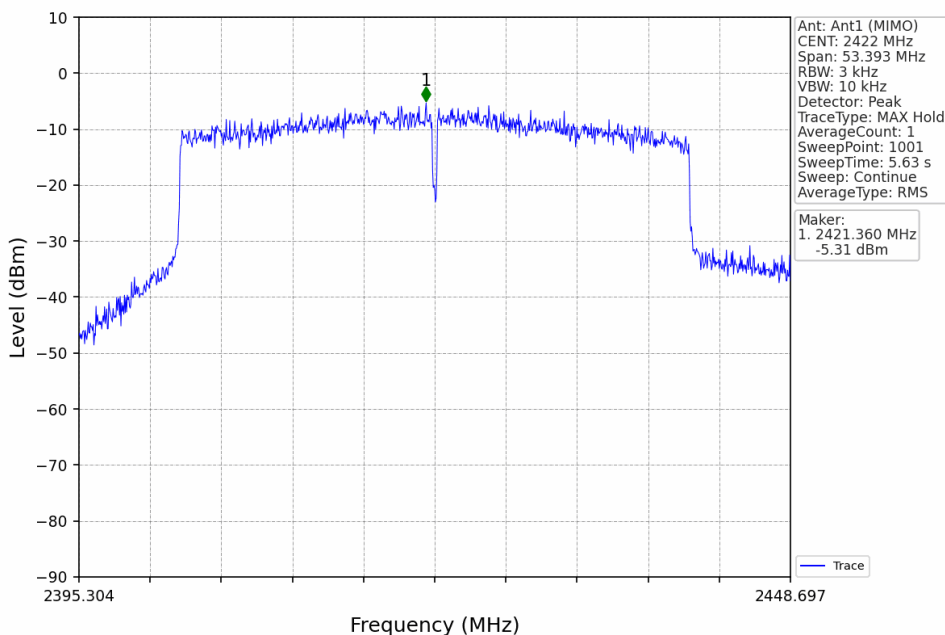
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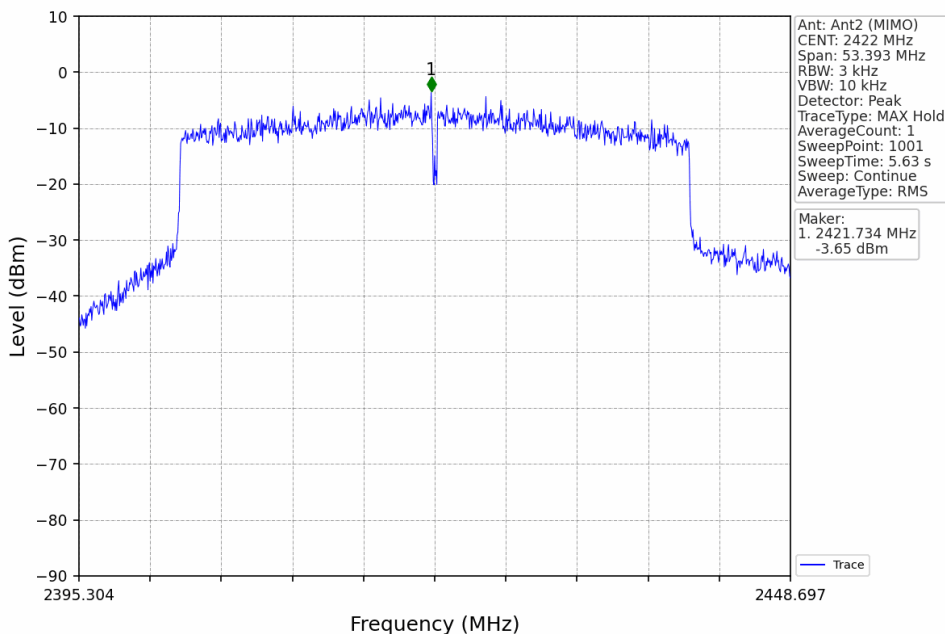
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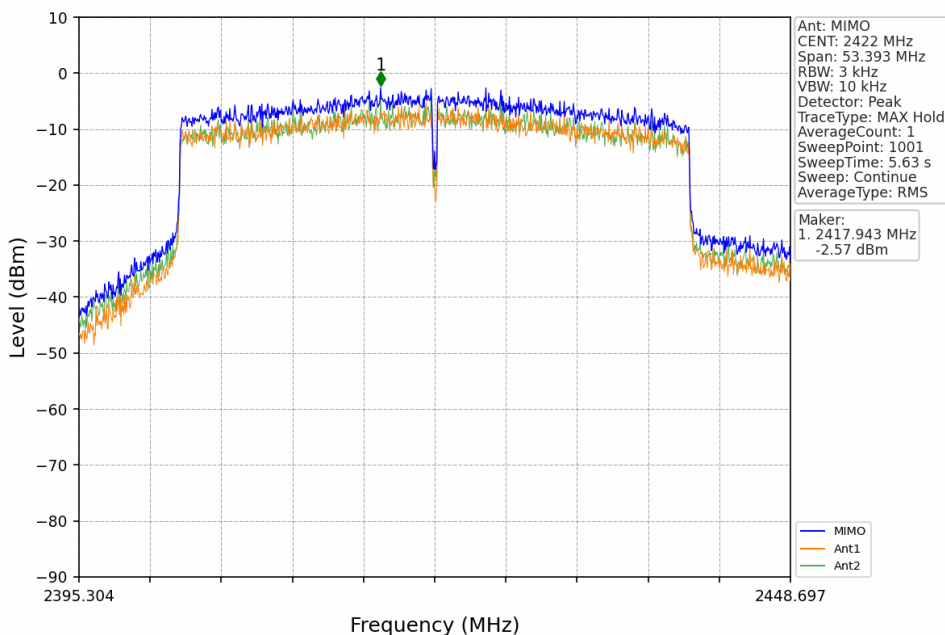
802.11ax(HEW40)\_LCH\_2422MHz\_RU484\_Left\_Ant1 (MIMO)\_NTNV



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



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



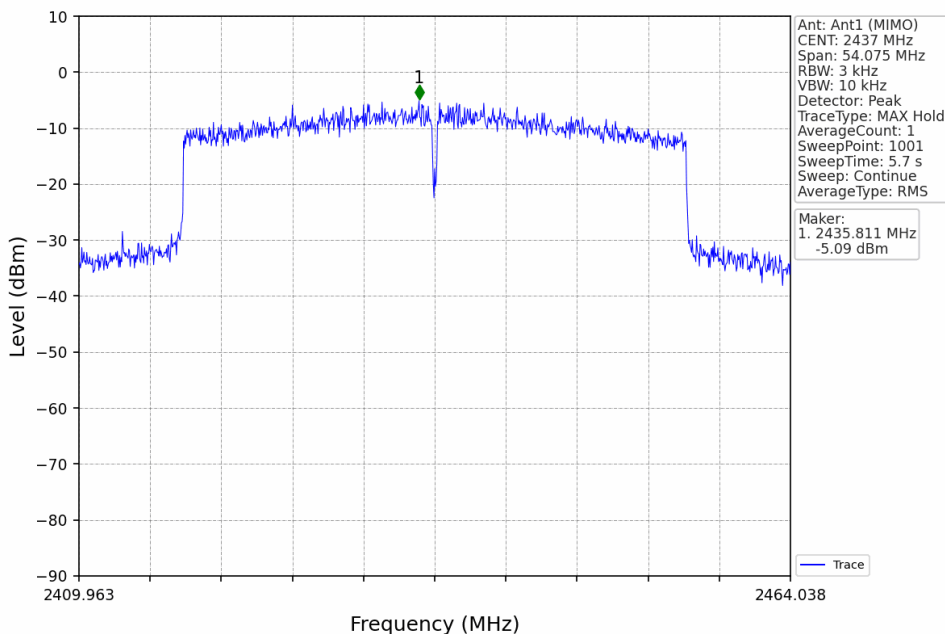
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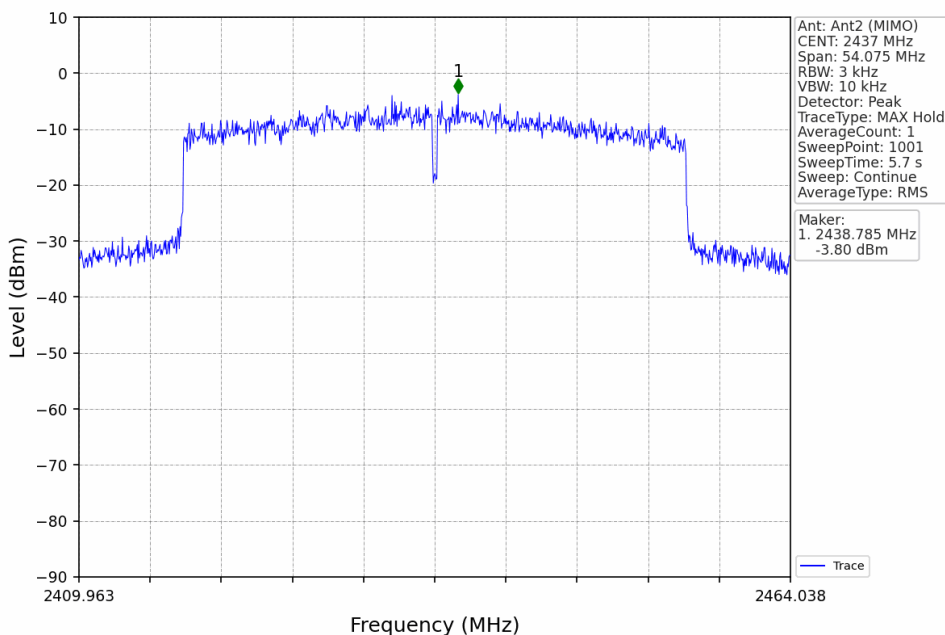
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### 802.11ax(HEW40)\_MCH\_2437MHz\_RU484\_Left\_Ant1 (MIMO)\_NTNV



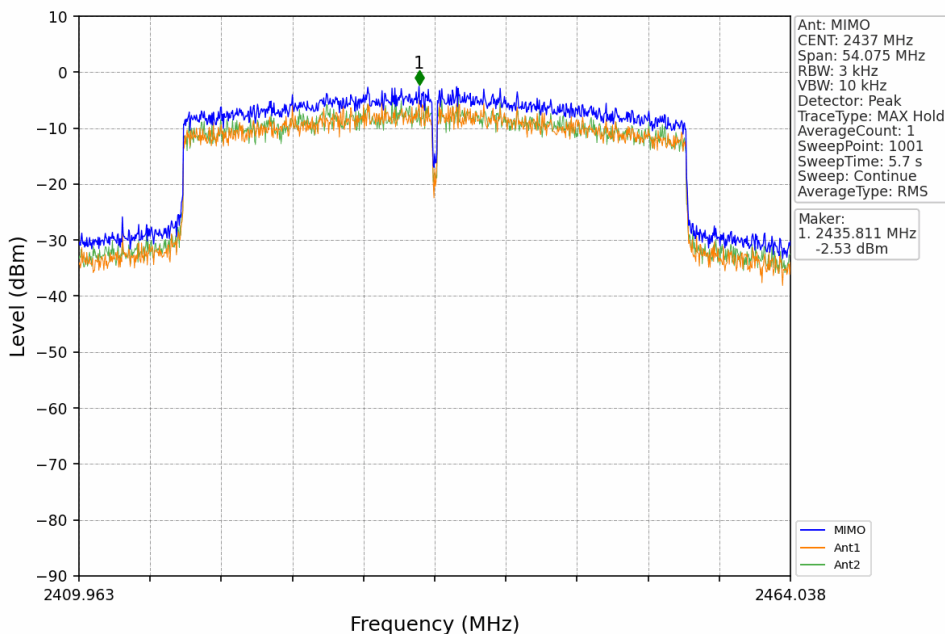
### 802.11ax(HEW40)\_MCH\_2437MHz\_RU484\_Left\_Ant2 (MIMO)\_NTNV



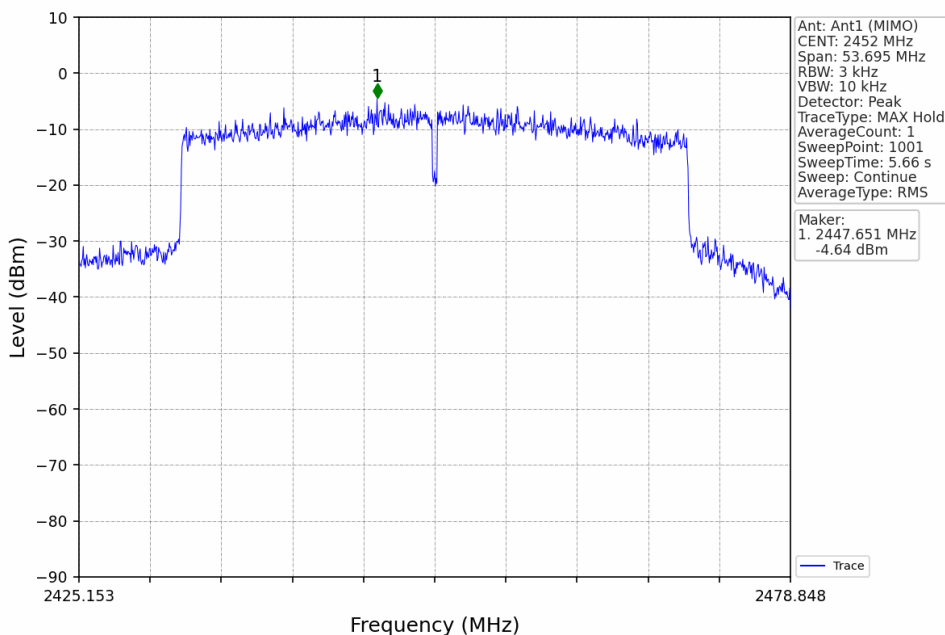
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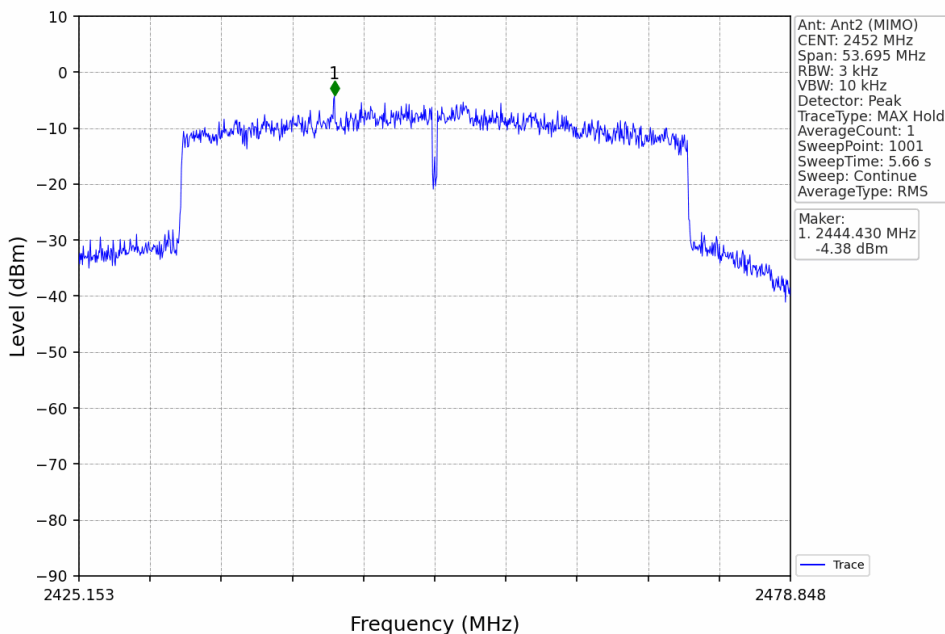
802.11ax(HEW40)\_MCH\_2437MHz\_RU484\_Left\_MIMO\_NTNV



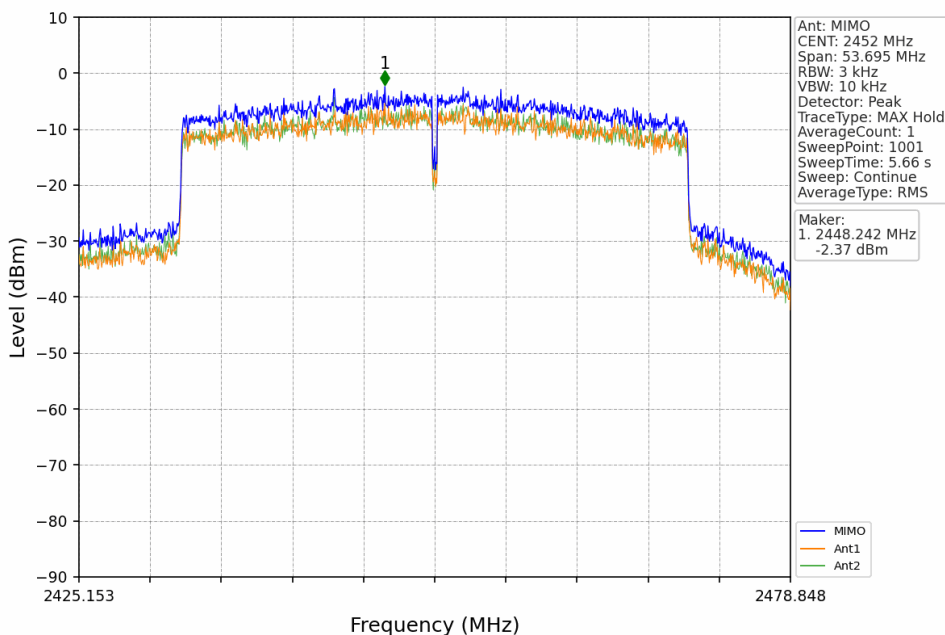
802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_Ant1 (MIMO)\_NTNV



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



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



## 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) |
|------------------|---------|-----------------|-------|--------|-----|--------------------------|
| 802.11b          | MIMO    | 2412            | /     | /      | 1   | 16.06                    |
|                  |         |                 |       |        | 2   | 16.56                    |
|                  |         | 2437            | /     | /      | 1   | 15.74                    |
|                  |         |                 |       |        | 2   | 16.81                    |
|                  |         | 2462            | /     | /      | 1   | 16.33                    |
|                  |         |                 |       |        | 2   | 16.01                    |
| 802.11g          | MIMO    | 2412            | /     | /      | 1   | 14.94                    |
|                  |         |                 |       |        | 2   | 14.56                    |
|                  |         | 2437            | /     | /      | 1   | 15.26                    |
|                  |         |                 |       |        | 2   | 15.38                    |
|                  |         | 2462            | /     | /      | 1   | 15.62                    |
|                  |         |                 |       |        | 2   | 15.52                    |
| 802.11n (HT20)   | MIMO    | 2412            | /     | /      | 1   | 15.19                    |
|                  |         |                 |       |        | 2   | 14.96                    |
|                  |         | 2437            | /     | /      | 1   | 15.47                    |
|                  |         |                 |       |        | 2   | 15.32                    |
|                  |         | 2462            | /     | /      | 1   | 15.68                    |
|                  |         |                 |       |        | 2   | 15.51                    |
| 802.11n (HT40)   | MIMO    | 2422            | /     | /      | 1   | 10.83                    |
|                  |         |                 |       |        | 2   | 11.15                    |
|                  |         | 2437            | /     | /      | 1   | 11.25                    |
|                  |         |                 |       |        | 2   | 11.83                    |
|                  |         | 2452            | /     | /      | 1   | 11.12                    |
|                  |         |                 |       |        | 2   | 11.45                    |
| 802.11ax (HEW20) | MIMO    | 2412            | RU242 | Left   | 1   | 14.65                    |
|                  |         |                 |       |        | 2   | 14.66                    |



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|  |                     |      |       |      |   |       |
|--|---------------------|------|-------|------|---|-------|
|  |                     | 2437 | RU242 | Left | 1 | 15.21 |
|  |                     |      |       |      | 2 | 15.67 |
|  |                     | 2462 | RU242 | Left | 1 | 15.56 |
|  |                     |      |       |      | 2 | 14.56 |
|  | 802.11ax<br>(HEW40) | 2422 | RU484 | Left | 1 | 10.80 |
|  |                     |      |       |      | 2 | 11.47 |
|  |                     | 2437 | RU484 | Left | 1 | 11.14 |
|  |                     |      |       |      | 2 | 11.73 |
|  |                     | 2452 | RU484 | Left | 1 | 11.02 |
|  |                     |      |       |      | 2 | 11.50 |



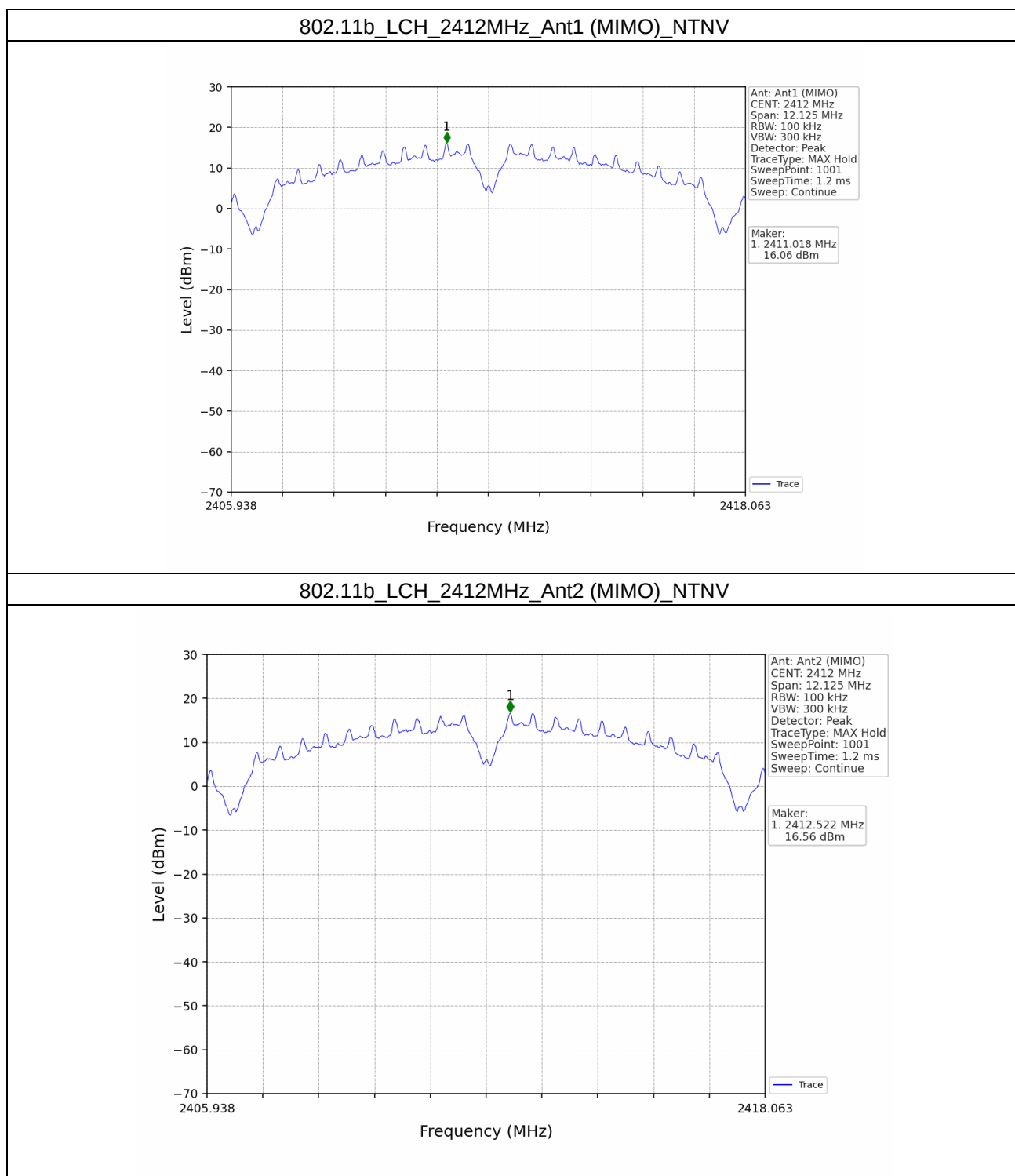
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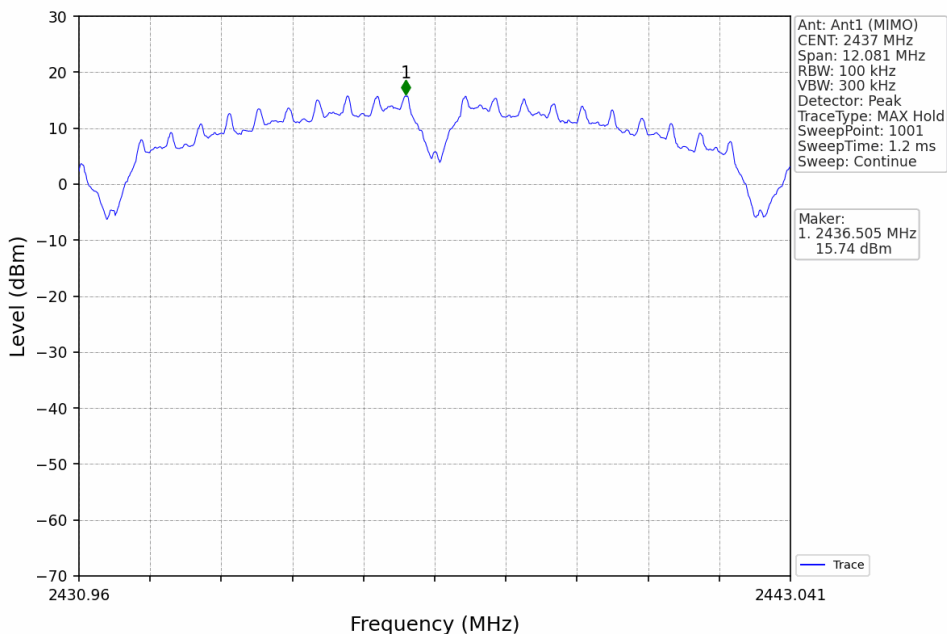
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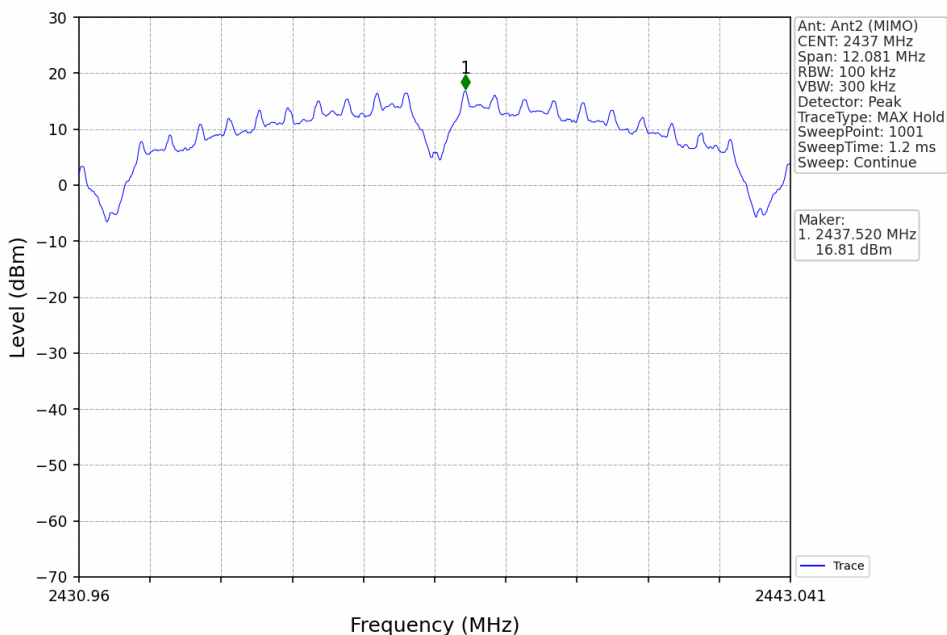
### 5.1.2 Test Graph



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



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



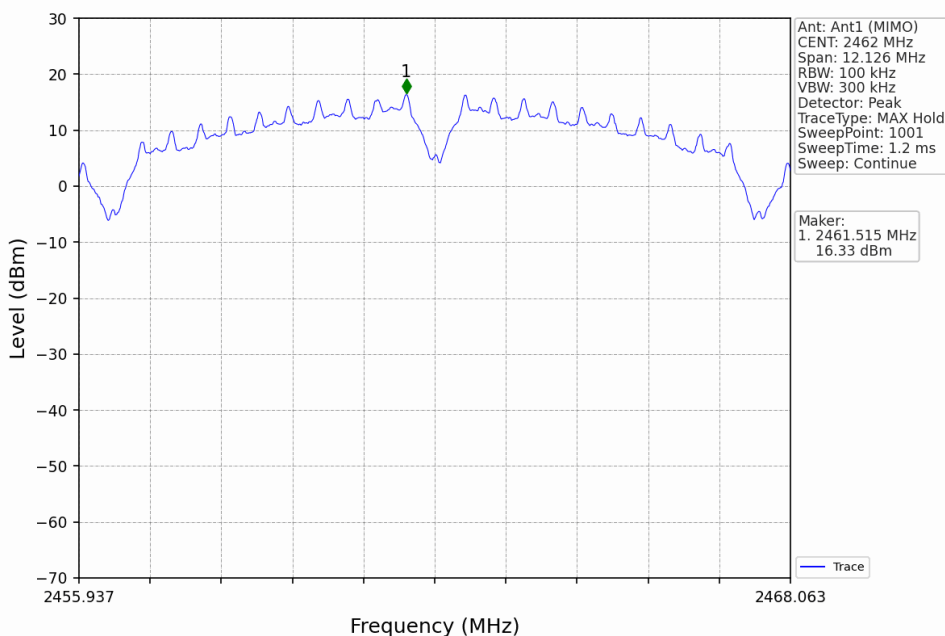
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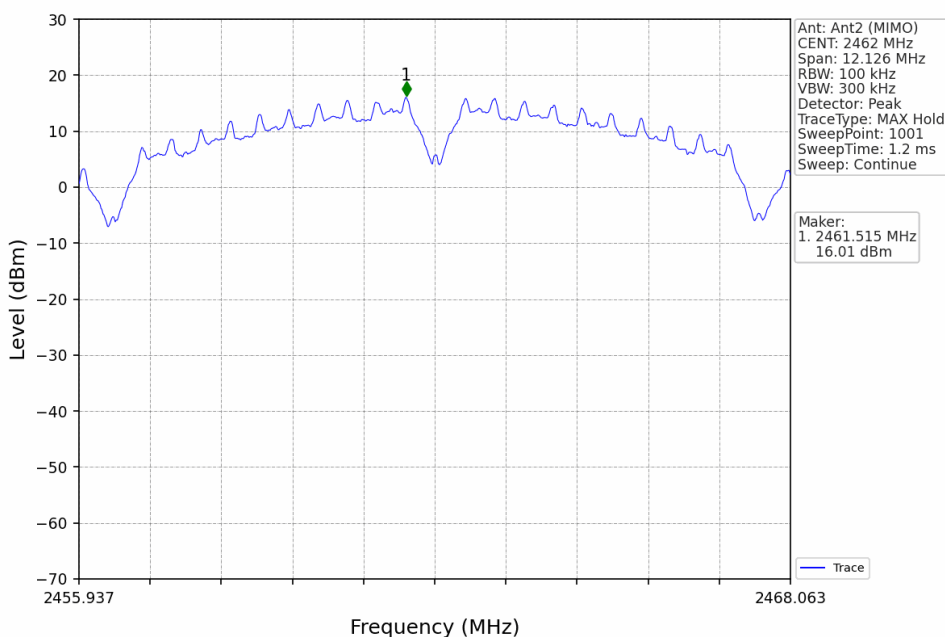
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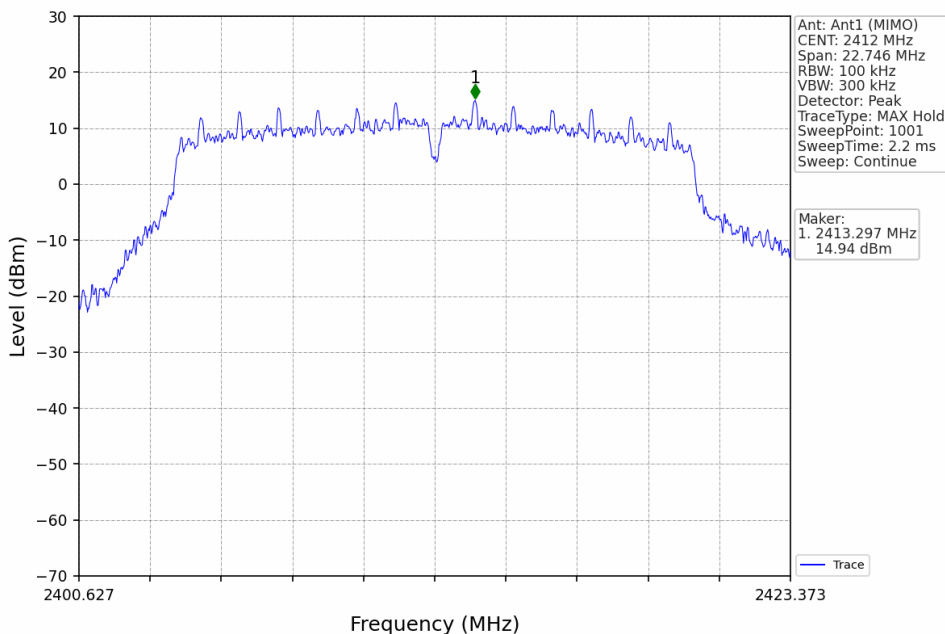
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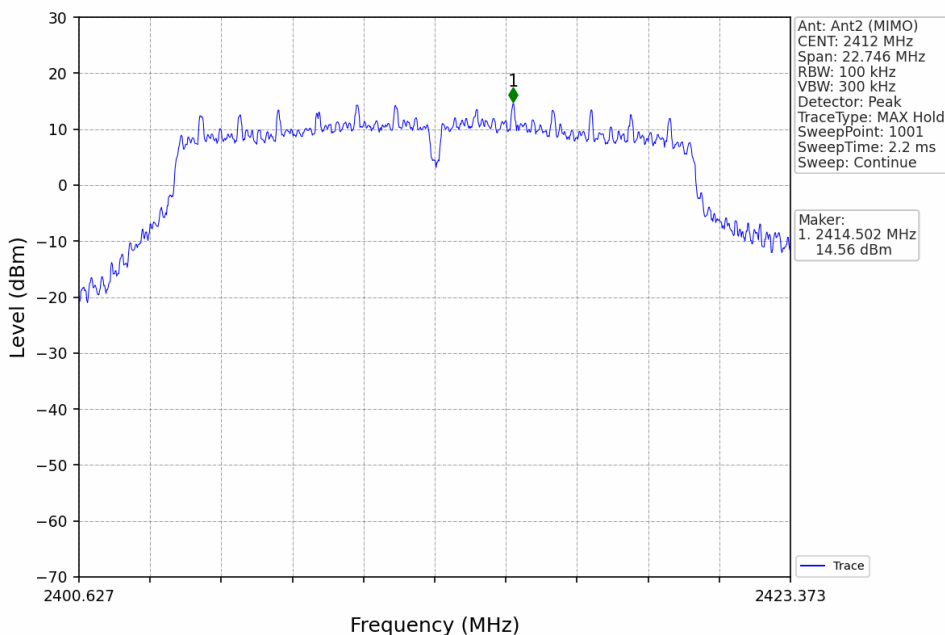
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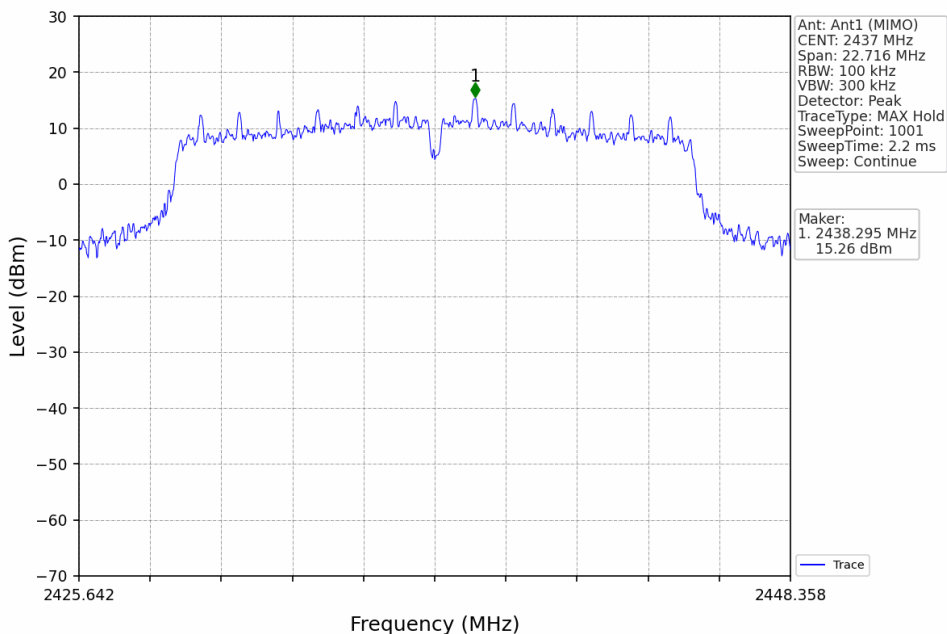
802.11g\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



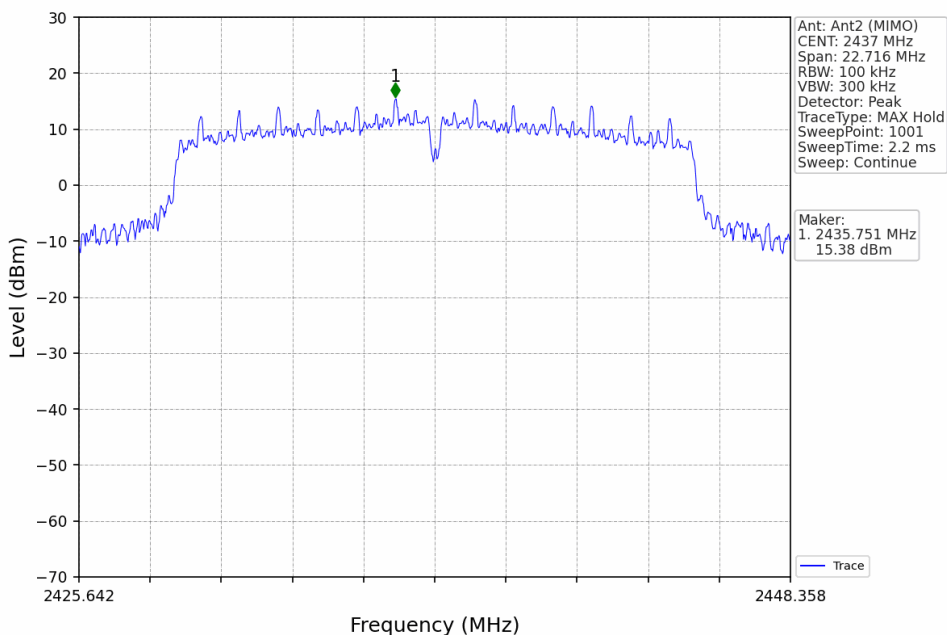
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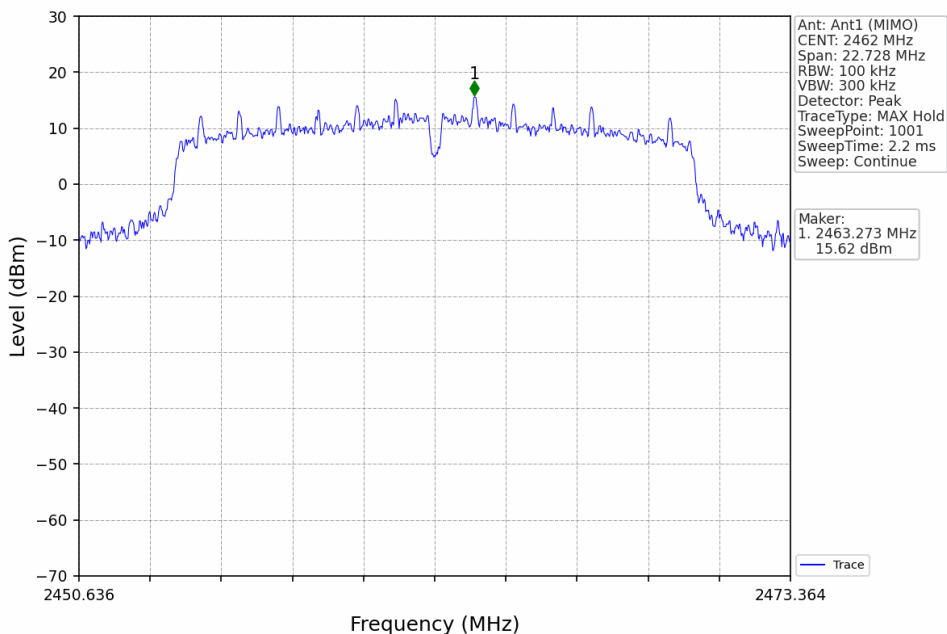
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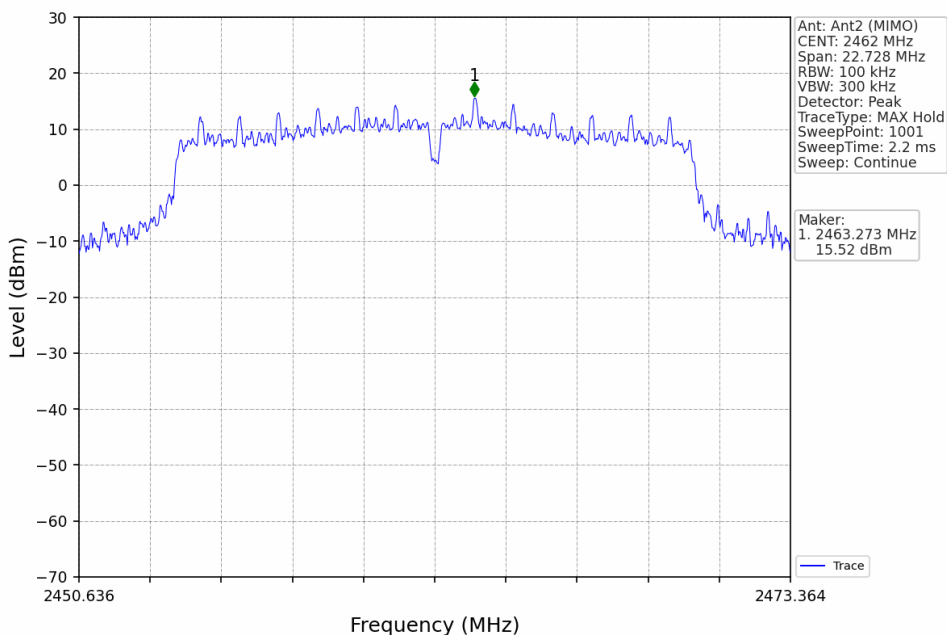
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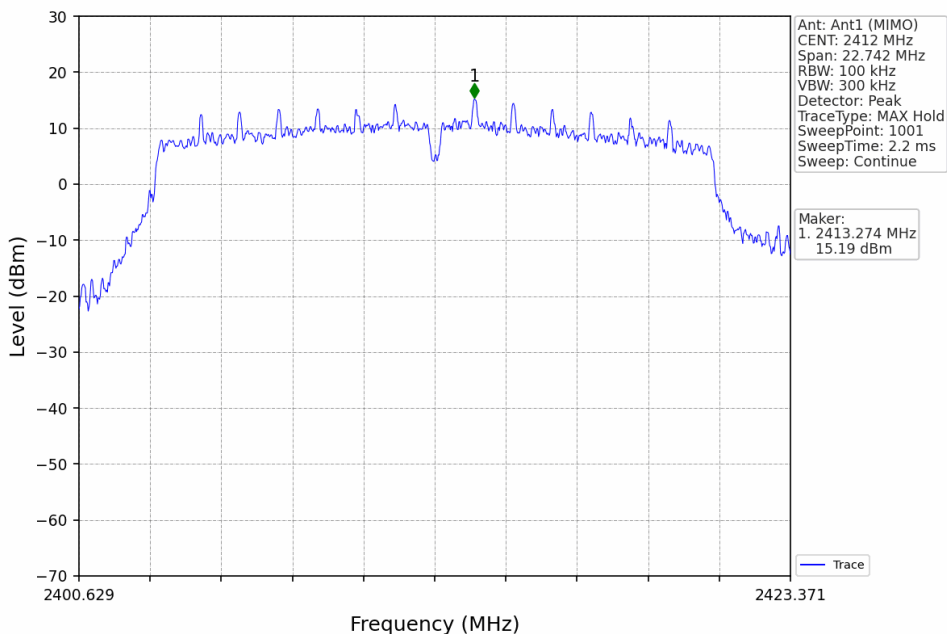
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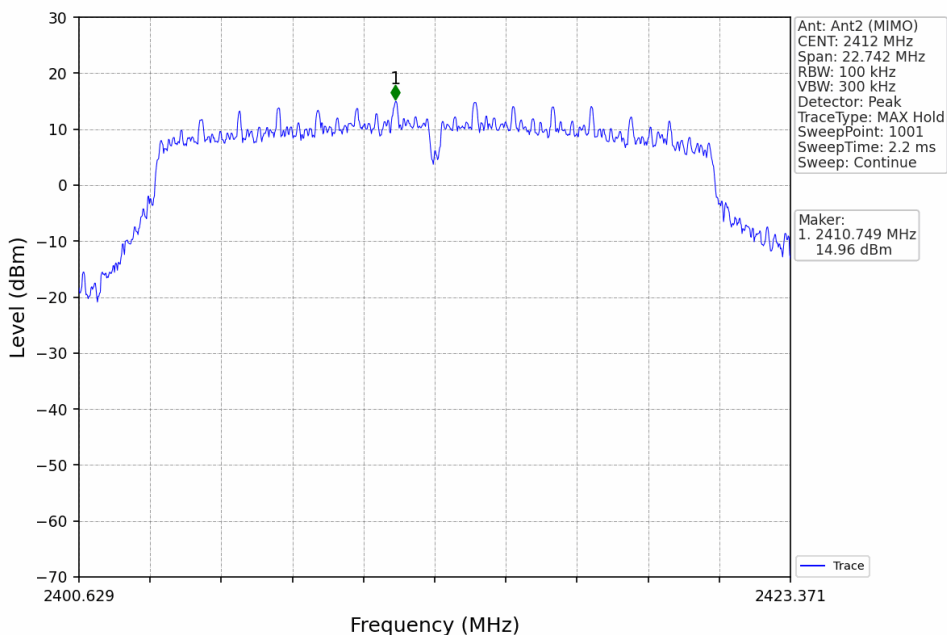
802.11g\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



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



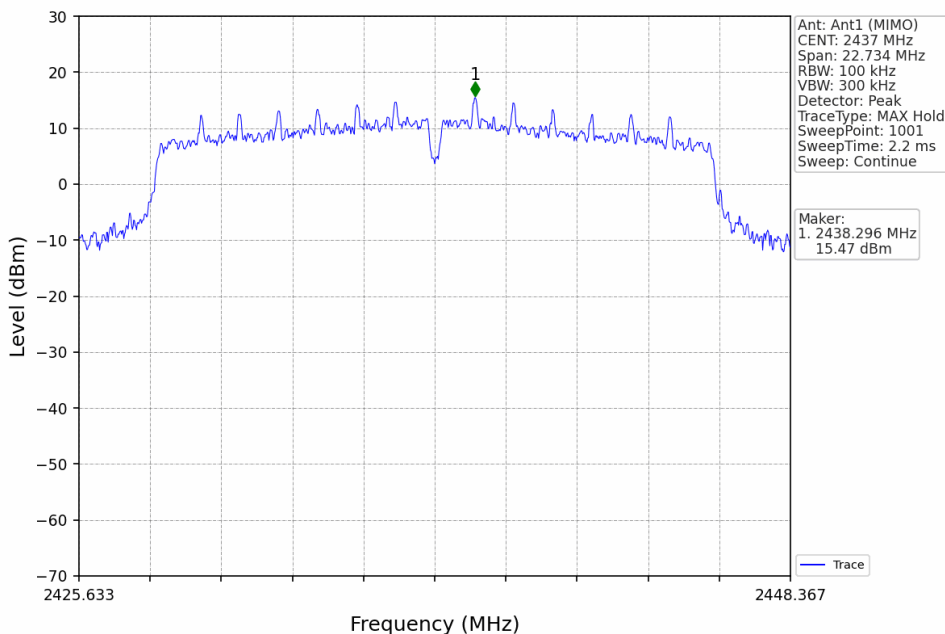
802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



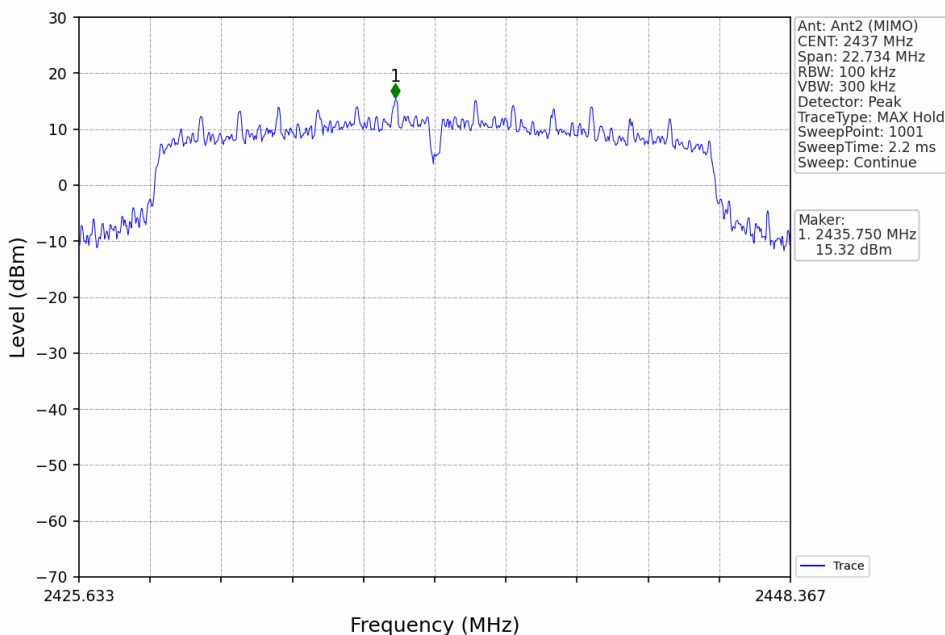
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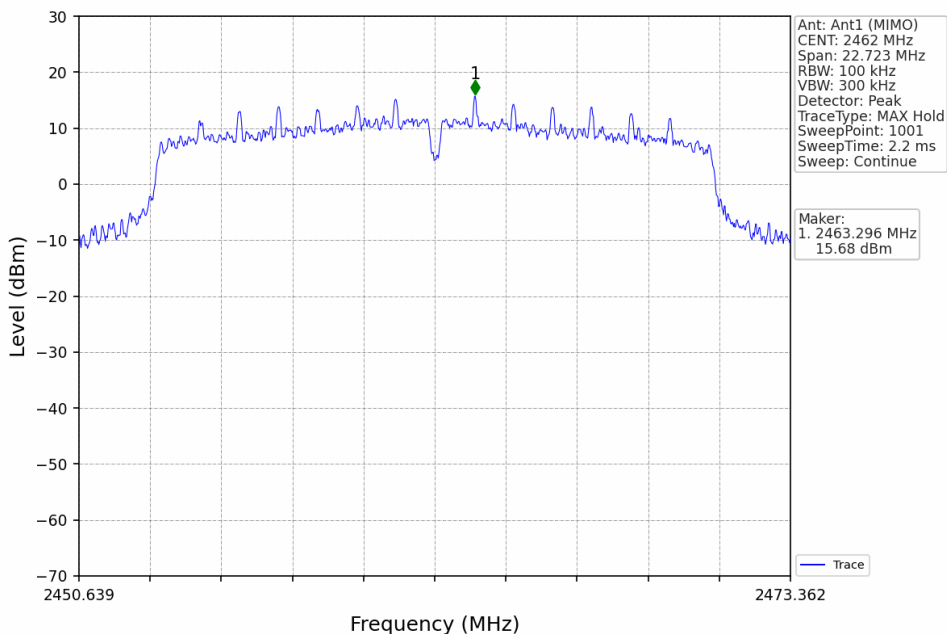
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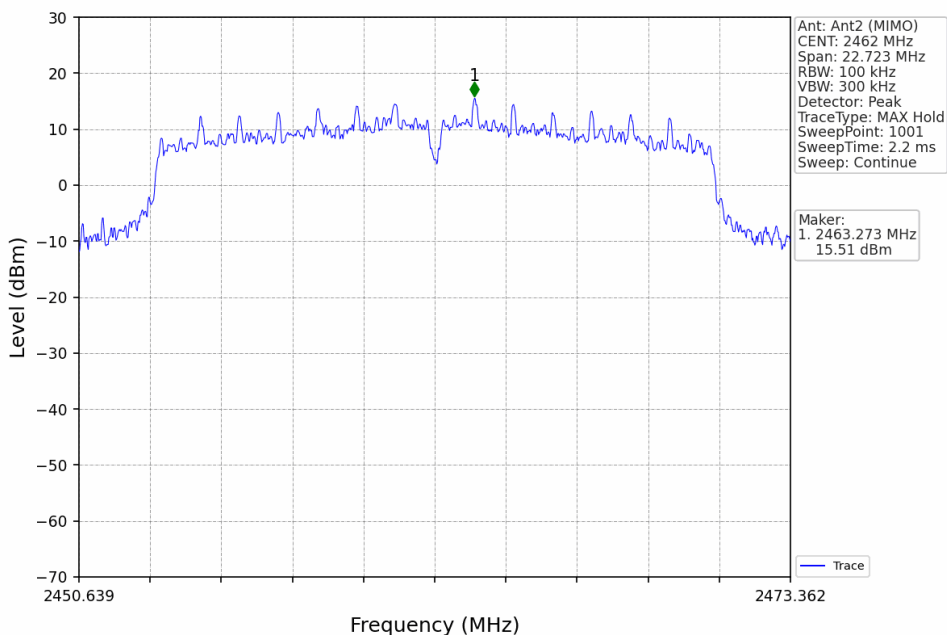
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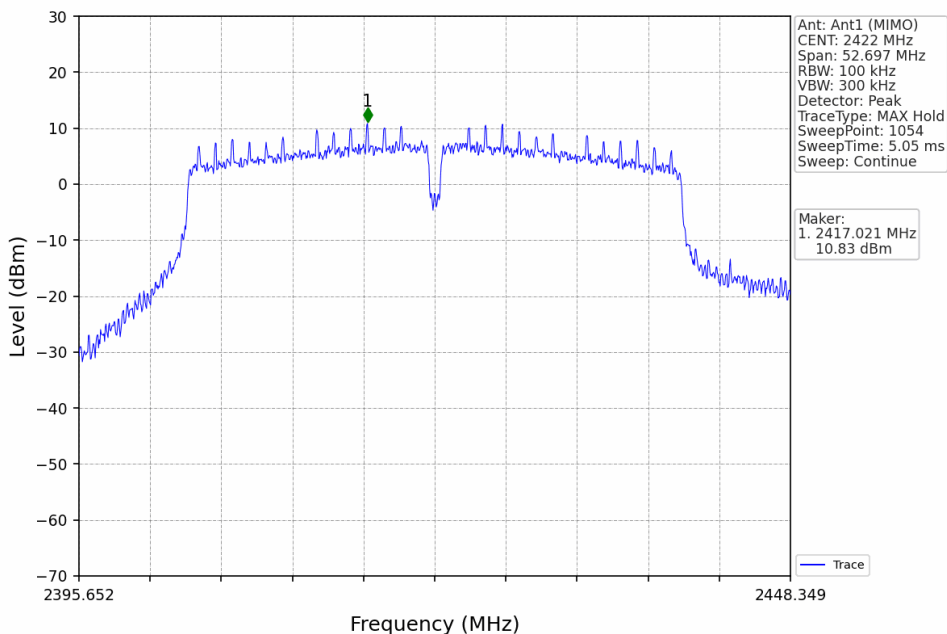
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



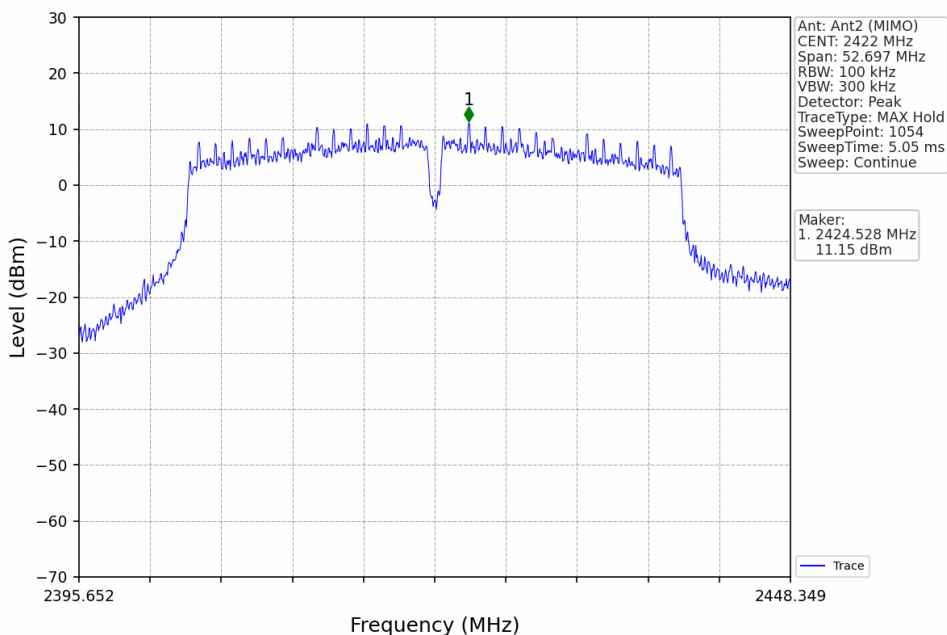
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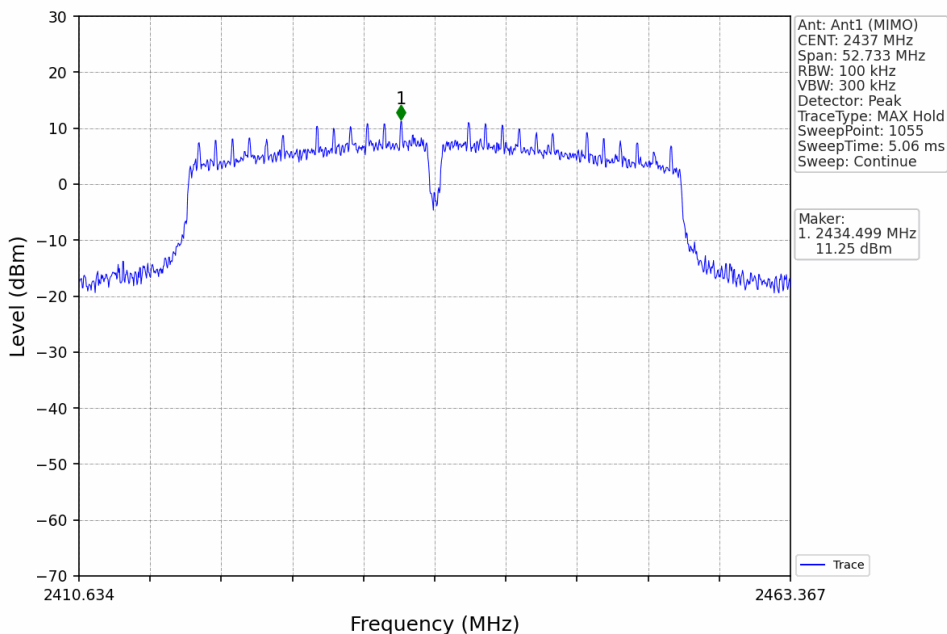
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



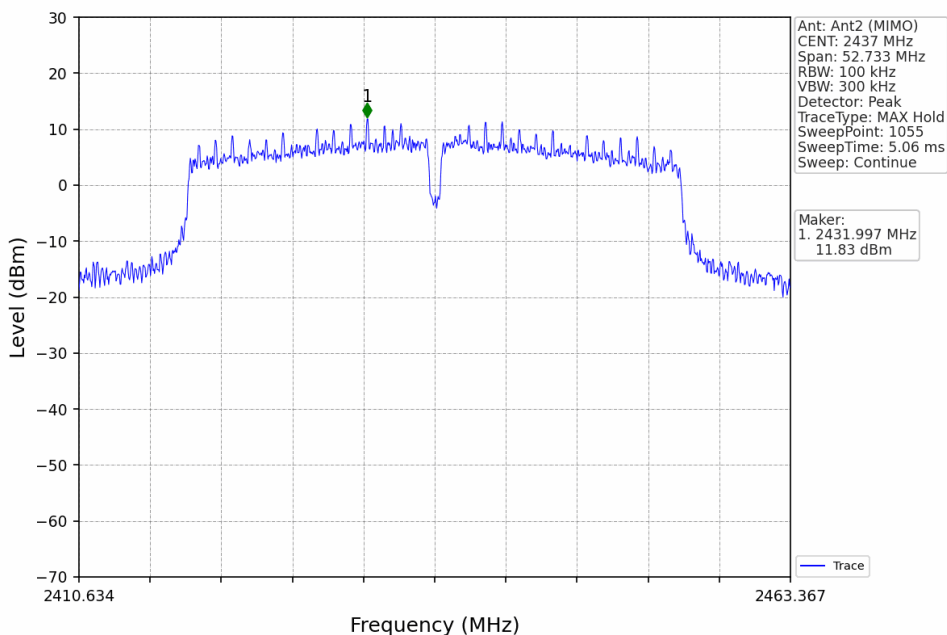
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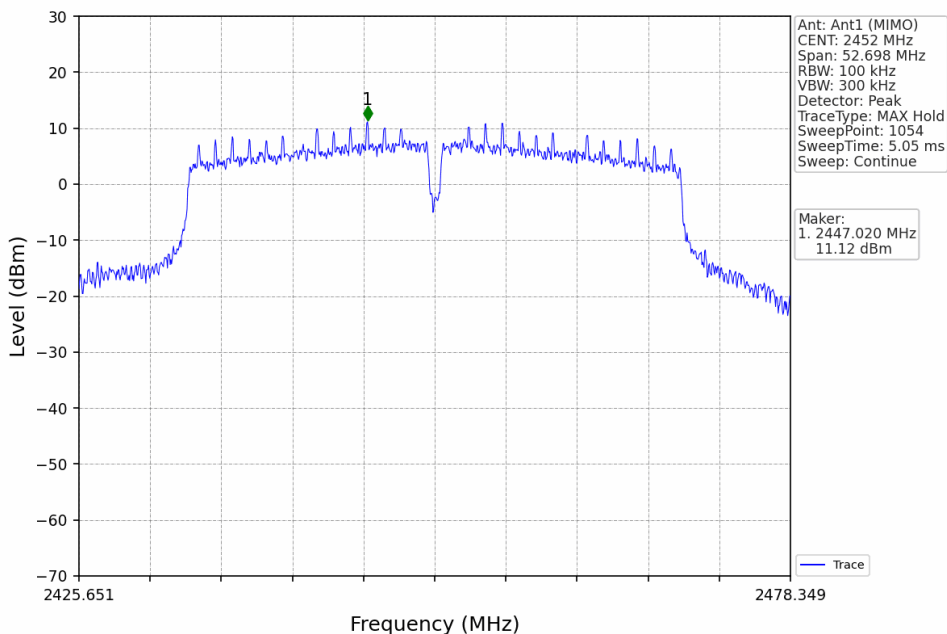
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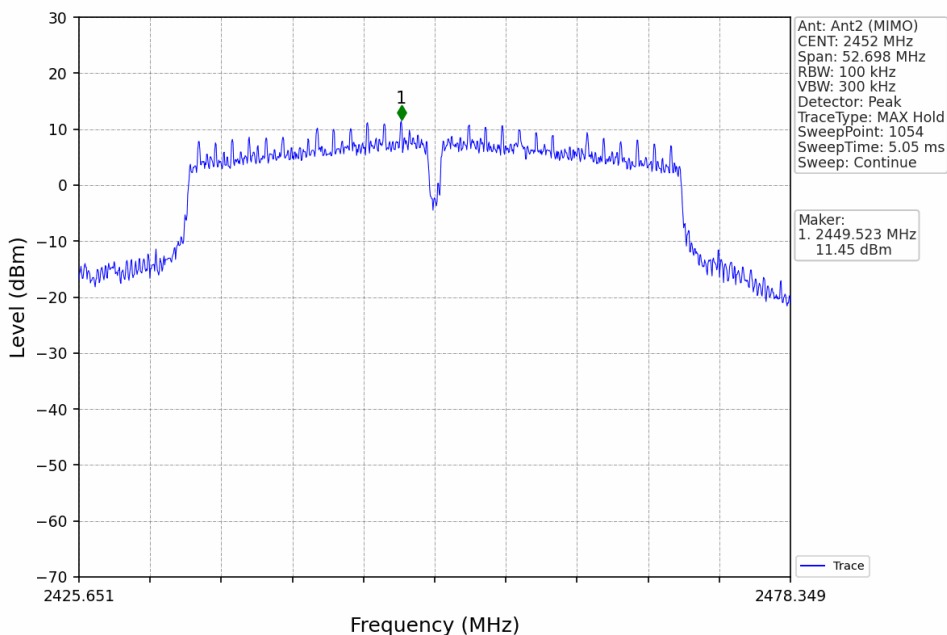
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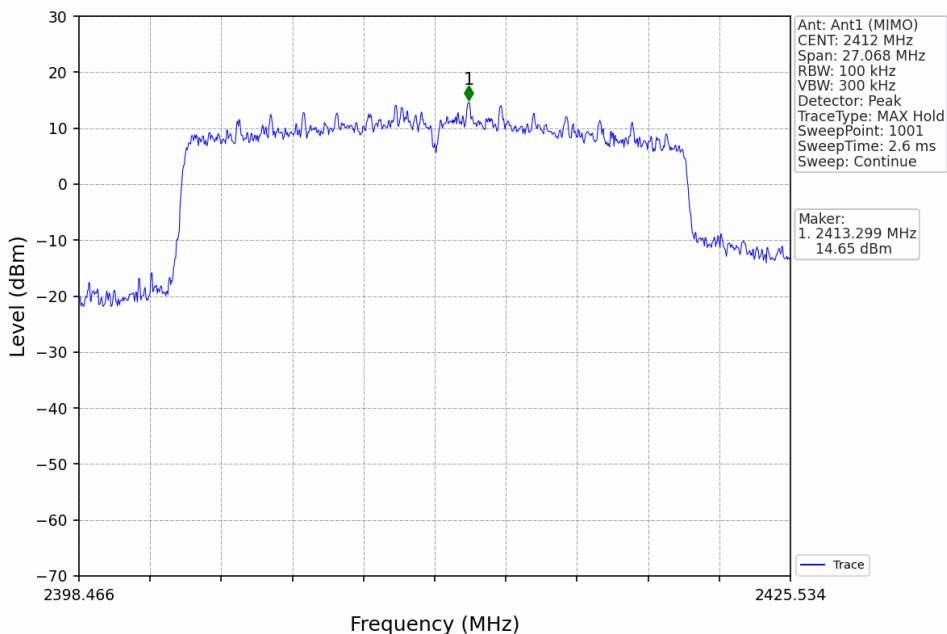
802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



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



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



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

