

## Appendix A for KSCR210900011701

## 1. Duty Cycle

## 1.1 Ant1

## 1.1.1 Test Result

| Ant1           |         |                 |           |             |                |                                   |                       |
|----------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode           | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b        | SISO    | 2412            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 802.11g        | SISO    | 2412            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 802.11n (HT20) | MIMO    | 2412            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 802.11n (HT40) | MIMO    | 2422            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2452            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |



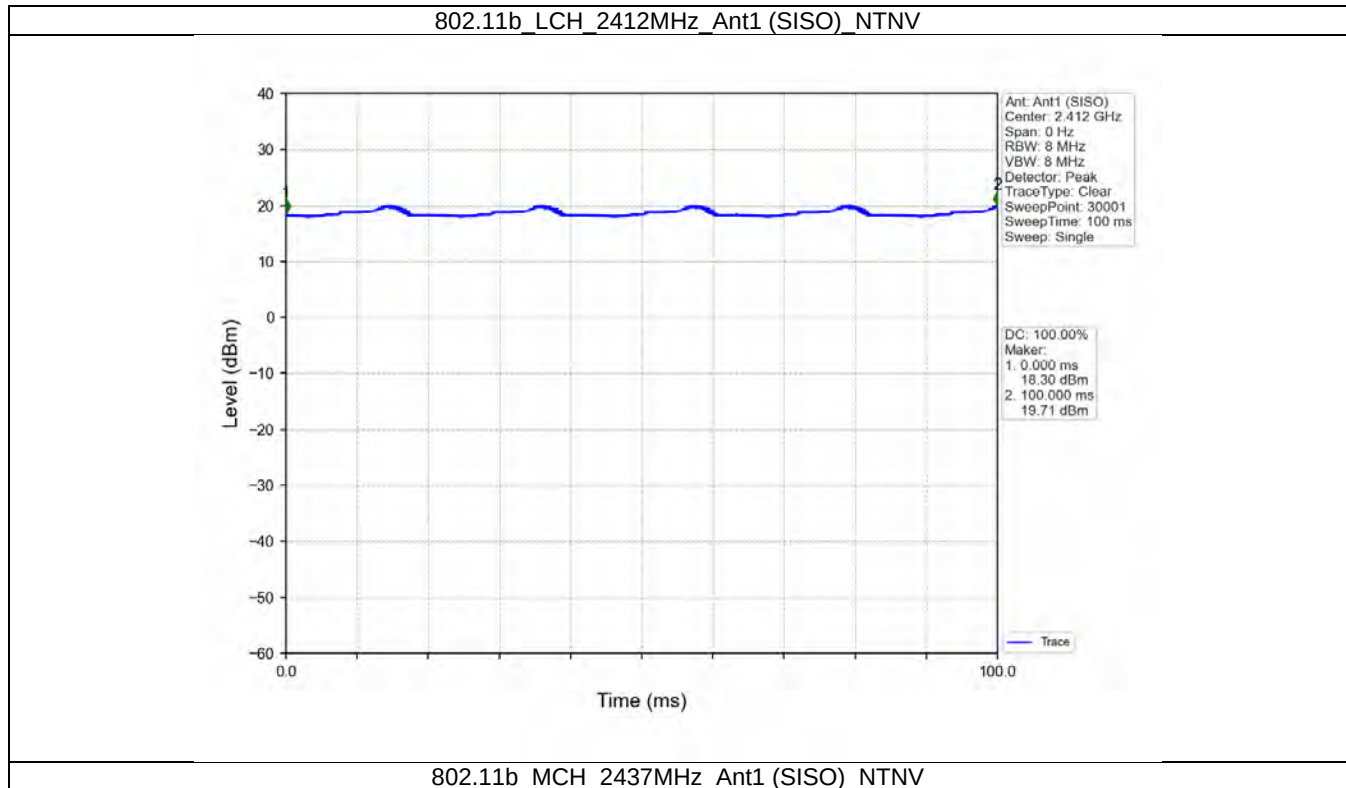
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## 1.1.2 Test Graph



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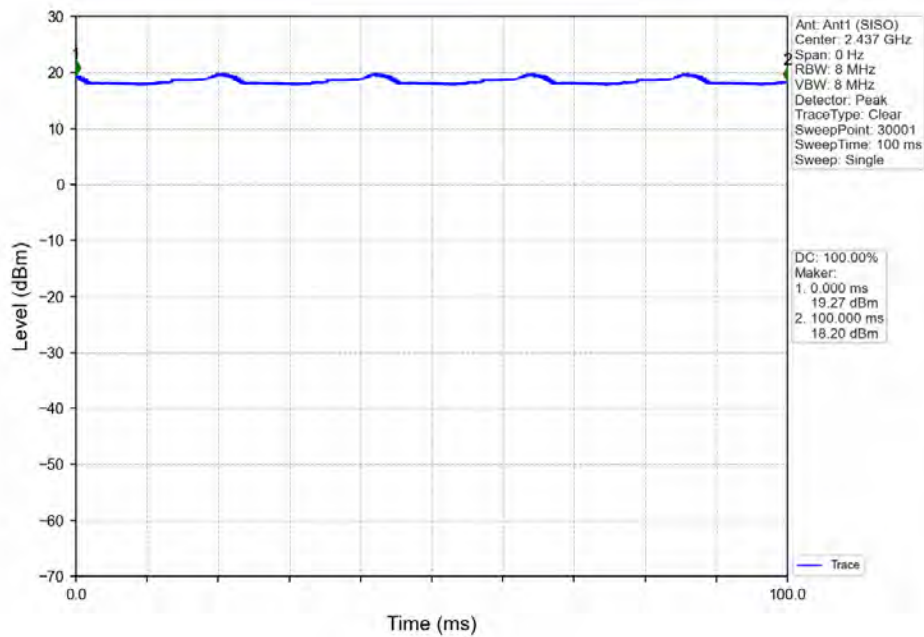
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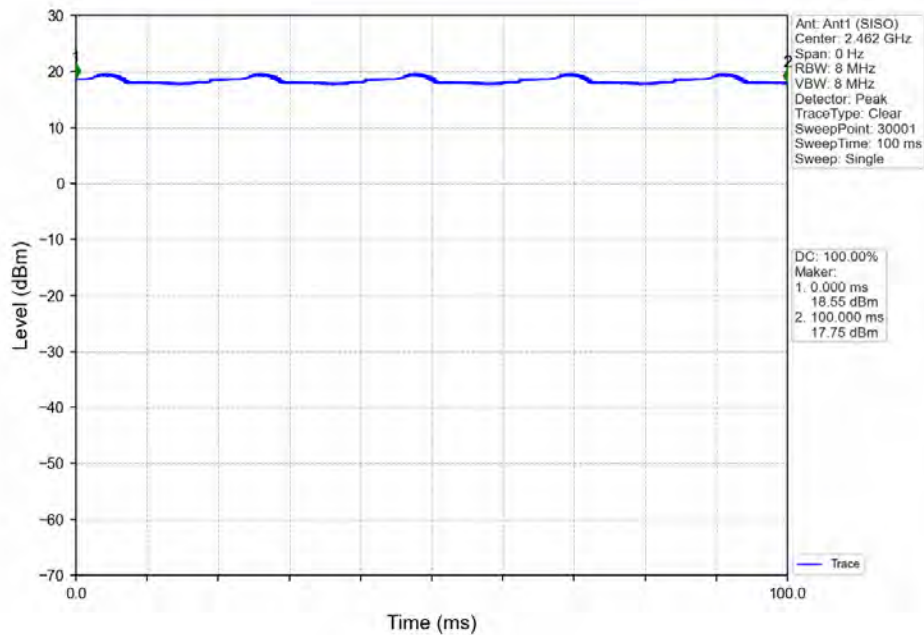
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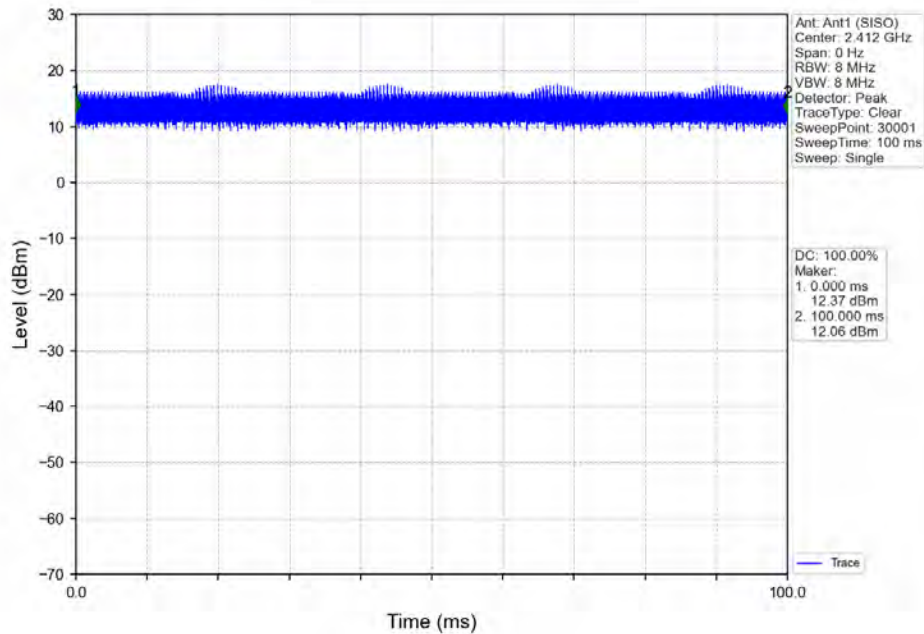
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## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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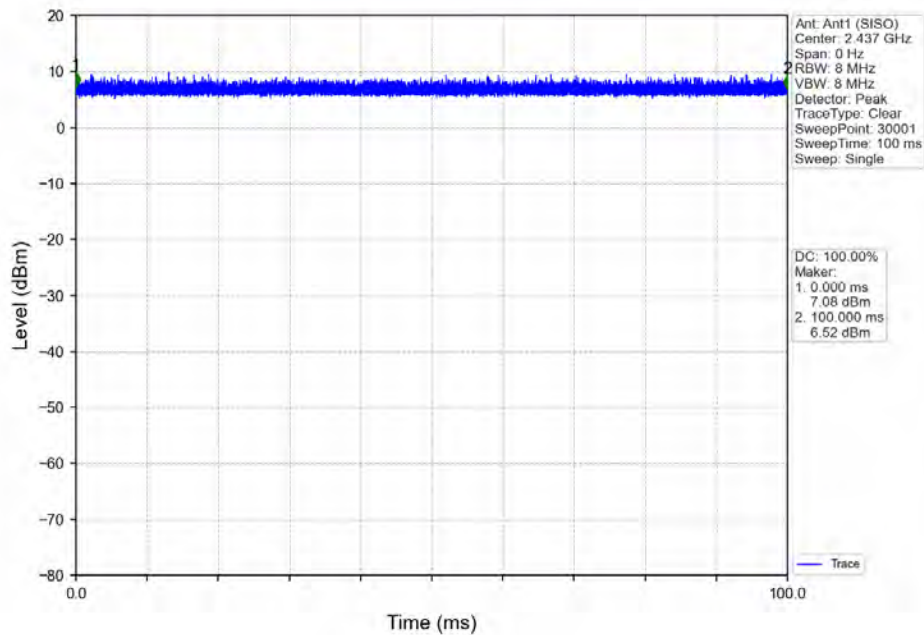
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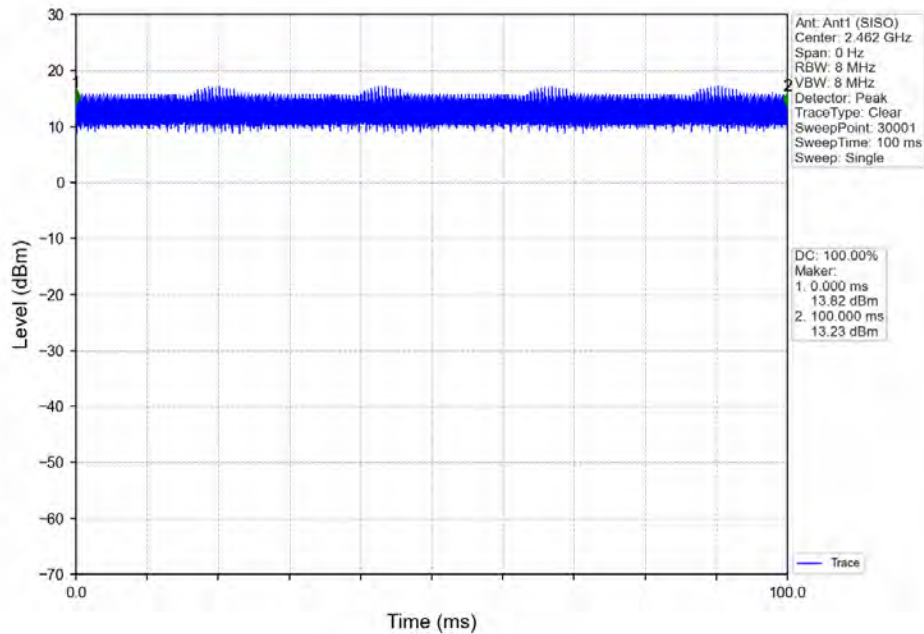
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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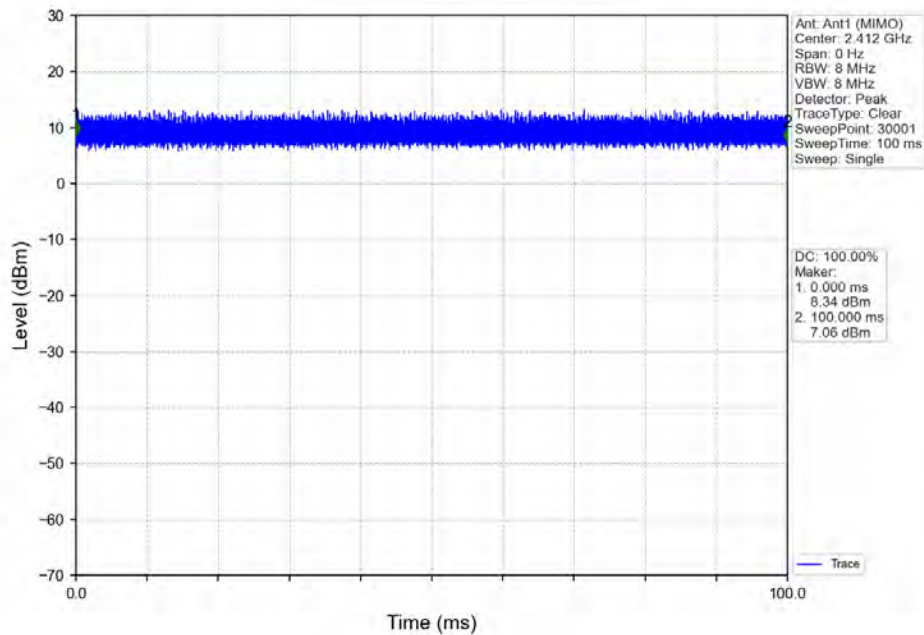
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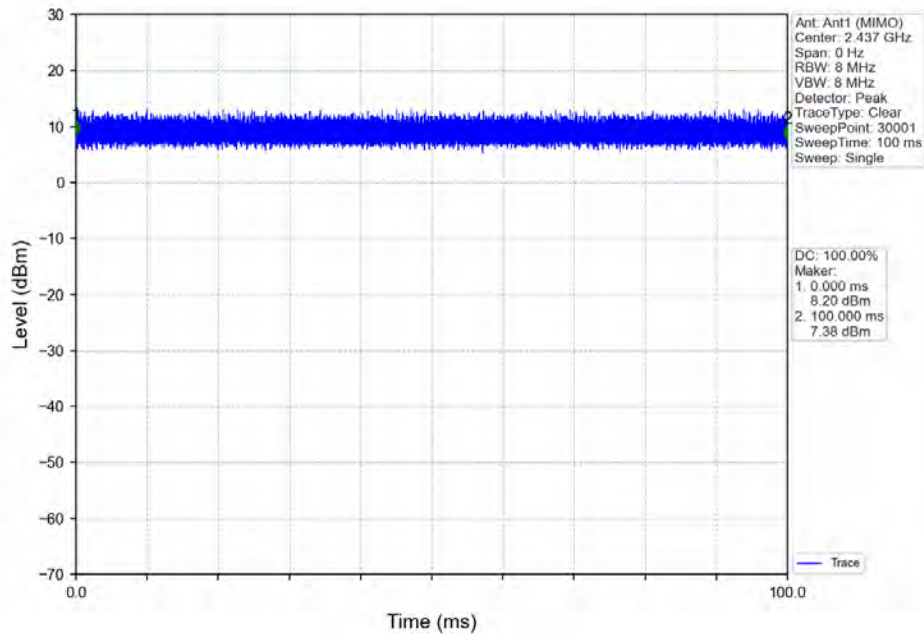
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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



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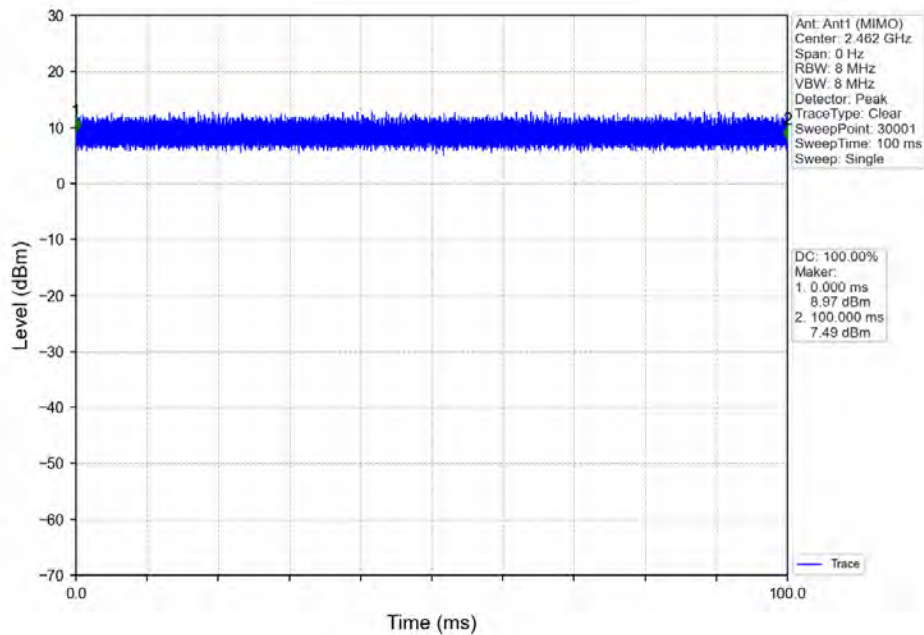
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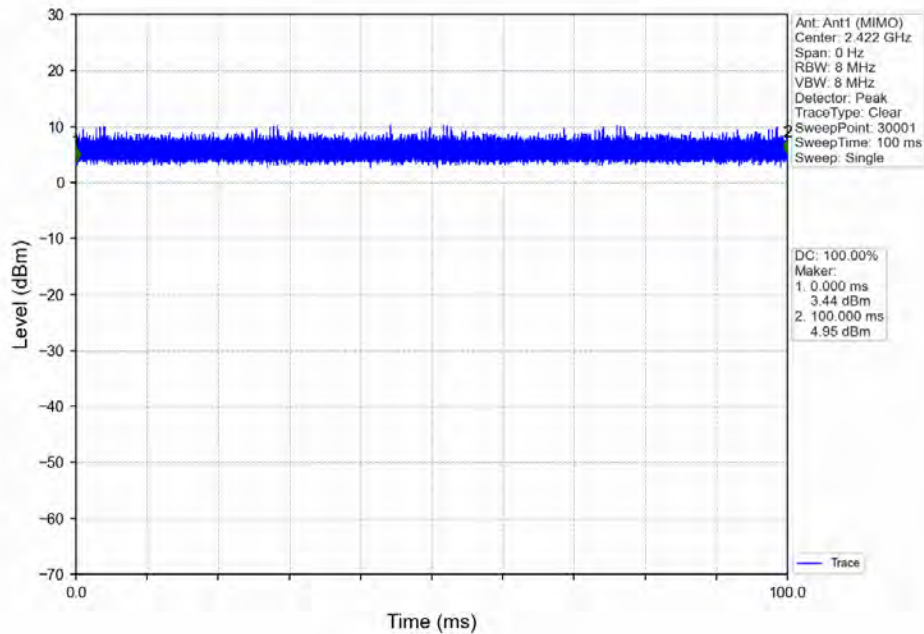
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



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



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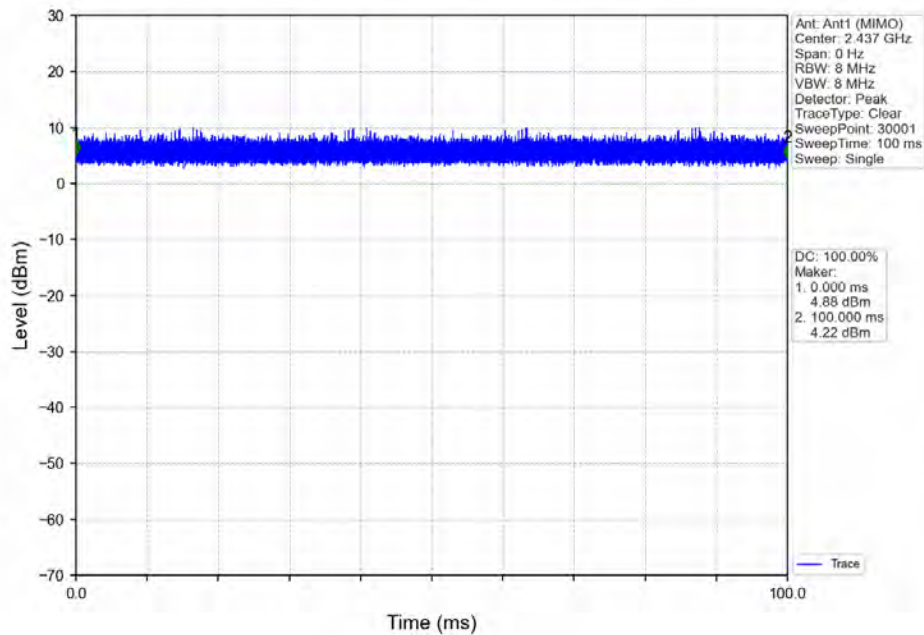
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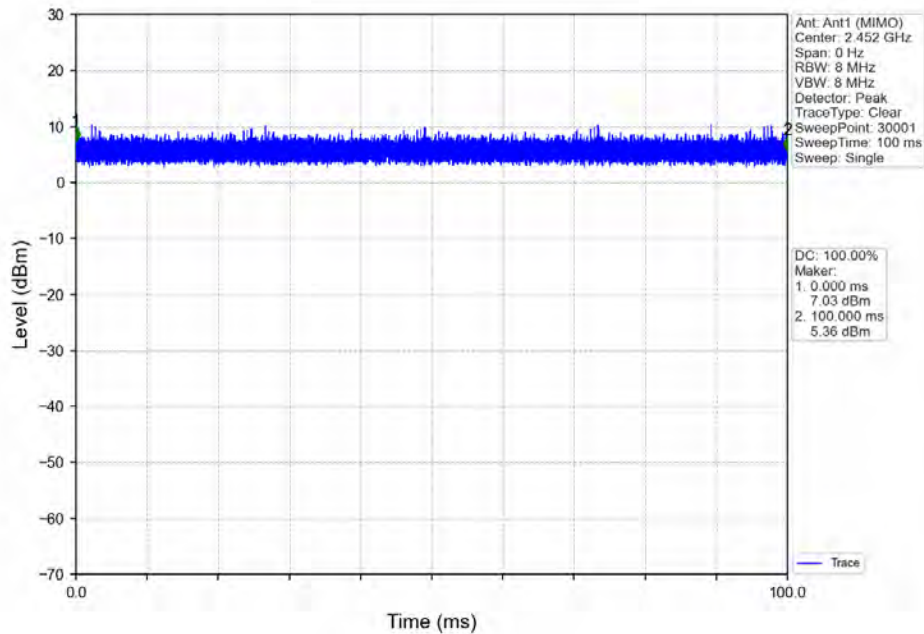
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | 99% Occupied Bandwidth (MHz) | Verdict |
|----------------|---------|-----------------|-----|------------------------------|---------|
|                |         |                 |     | Result                       |         |
| 802.11b        | SISO    | 2412            | 1   | 14.858                       | Pass    |
|                |         |                 | 2   | 14.844                       | Pass    |
|                |         | 2437            | 1   | 14.867                       | Pass    |
|                |         |                 | 2   | 14.857                       | Pass    |
|                |         | 2462            | 1   | 14.857                       | Pass    |
|                |         |                 | 2   | 14.851                       | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 17.569                       | Pass    |
|                |         |                 | 2   | 17.561                       | Pass    |
|                |         | 2437            | 1   | 17.563                       | Pass    |
|                |         |                 | 2   | 17.589                       | Pass    |
|                |         | 2462            | 1   | 17.563                       | Pass    |
|                |         |                 | 2   | 17.577                       | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | 1   | 18.393                       | Pass    |
|                |         |                 | 2   | 18.409                       | Pass    |
|                |         | 2437            | 1   | 18.395                       | Pass    |
|                |         |                 | 2   | 18.412                       | Pass    |
|                |         | 2462            | 1   | 18.391                       | Pass    |
|                |         |                 | 2   | 18.414                       | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | 1   | 36.018                       | Pass    |
|                |         |                 | 2   | 36.013                       | Pass    |
|                |         | 2437            | 1   | 36.020                       | Pass    |
|                |         |                 | 2   | 36.018                       | Pass    |
|                |         | 2452            | 1   | 36.004                       | Pass    |
|                |         |                 | 2   | 36.016                       | Pass    |



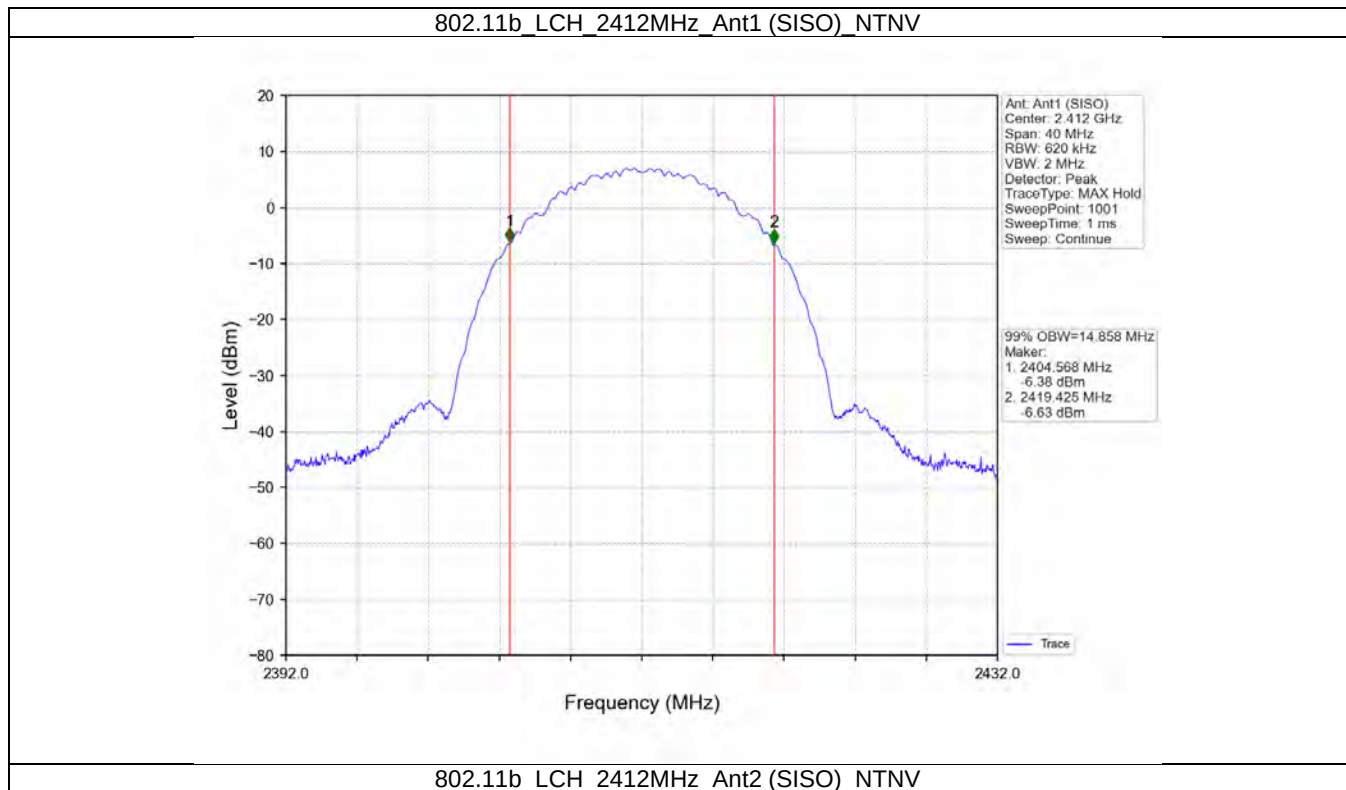
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## 2.1.2 Test Graph



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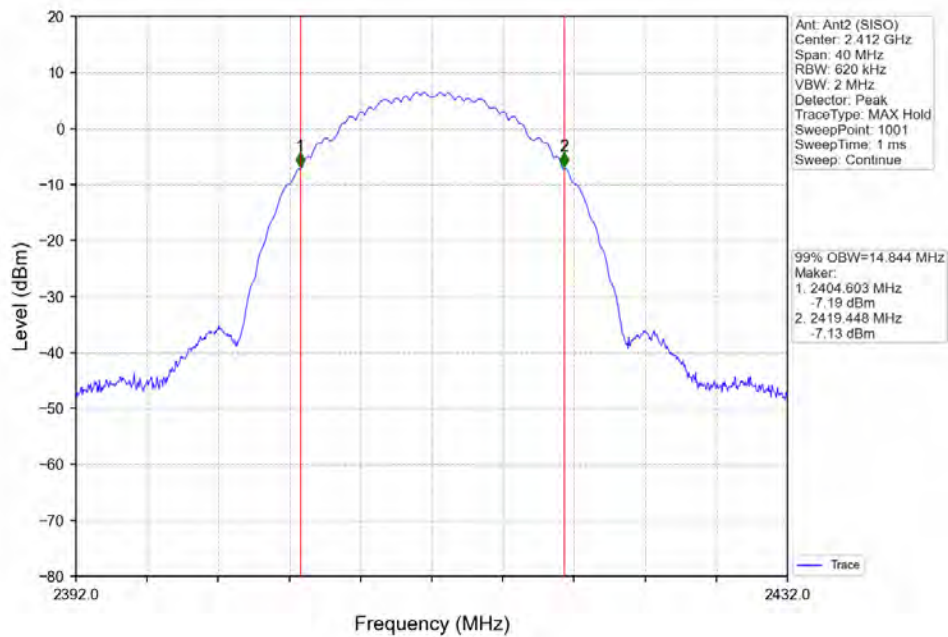
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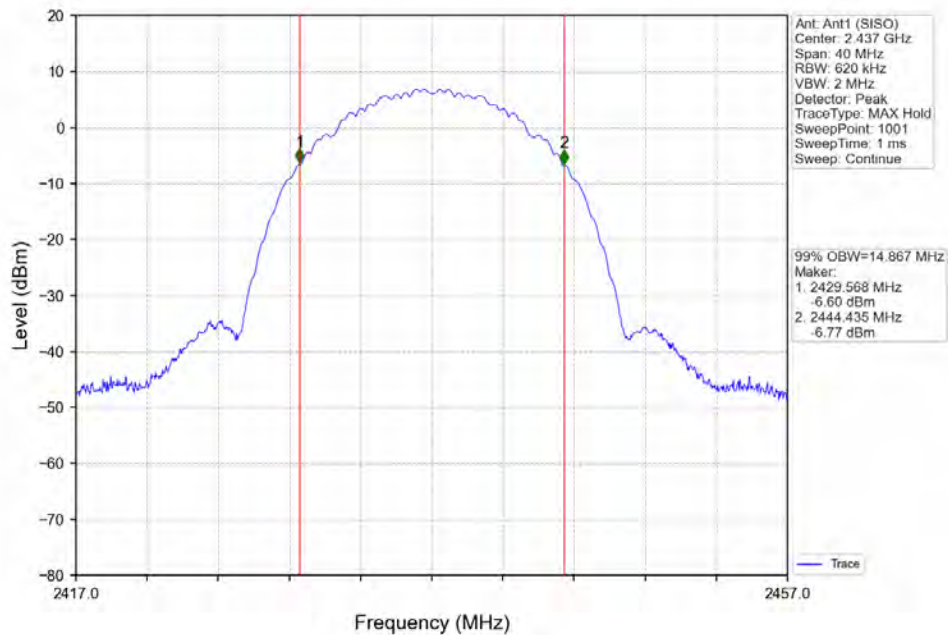
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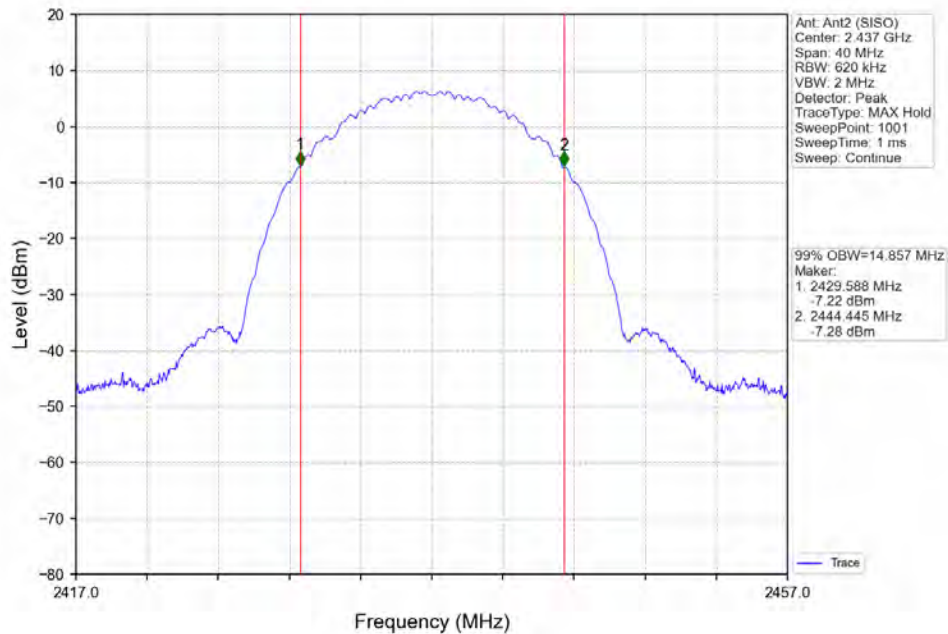
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802.11b MCH 2437MHz\_Ant1 (SISO)\_NTNV



802.11b MCH 2437MHz\_Ant2 (SISO)\_NTNV



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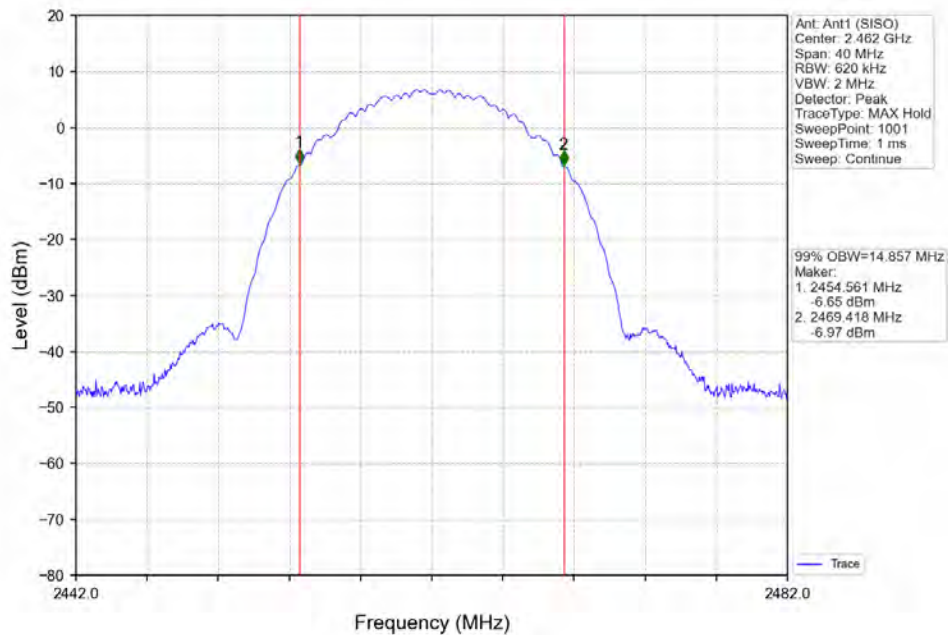
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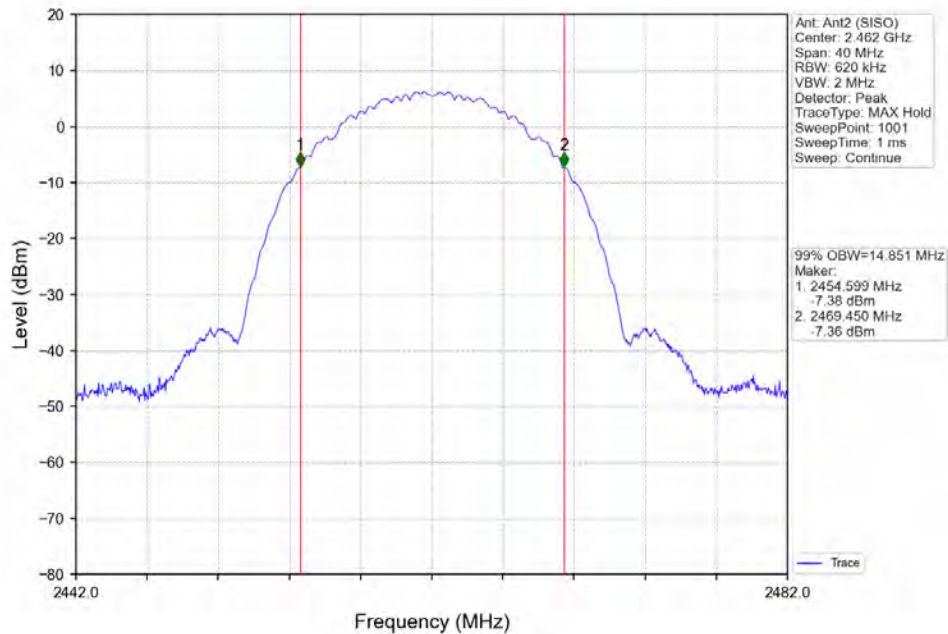
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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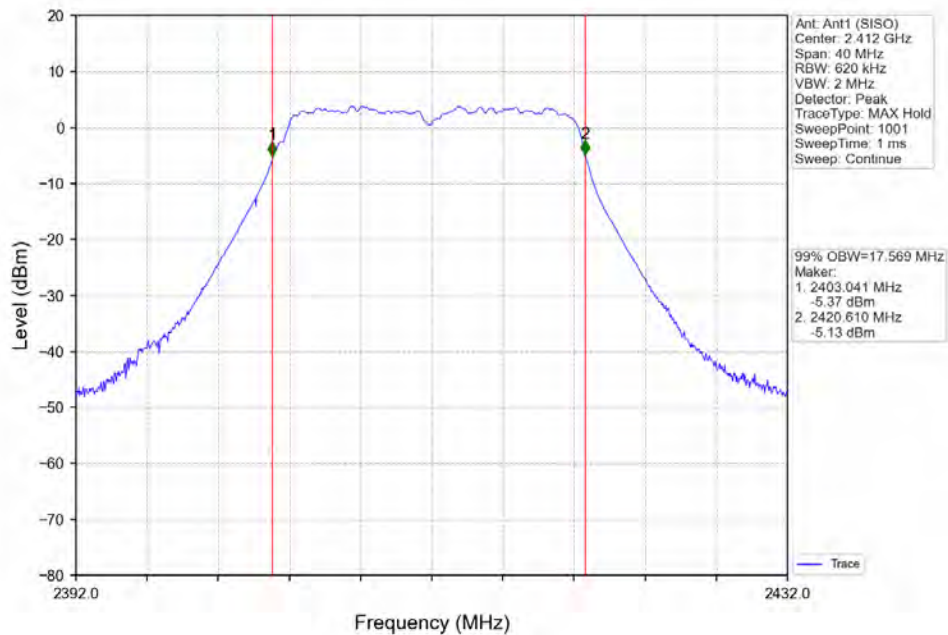
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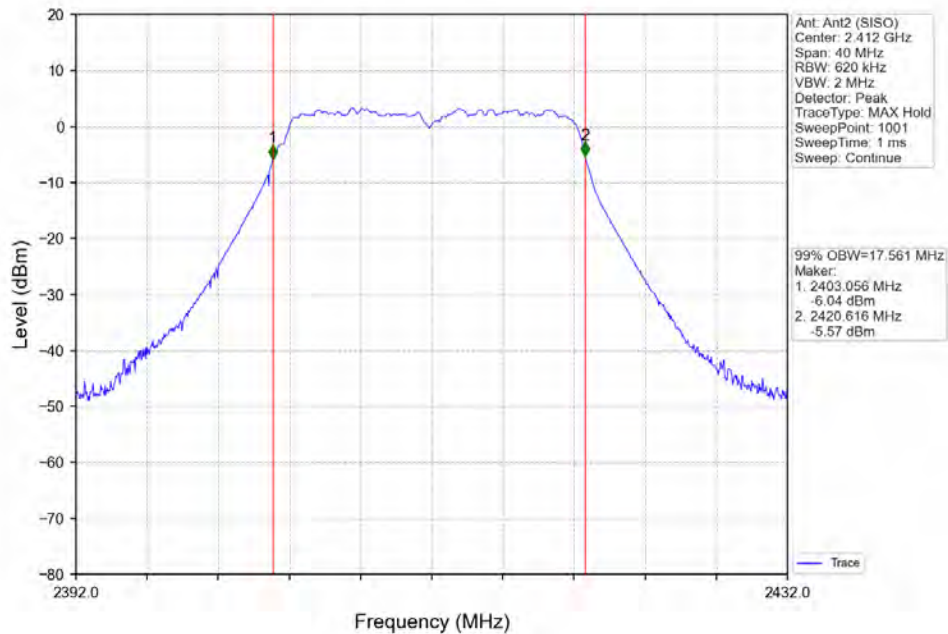
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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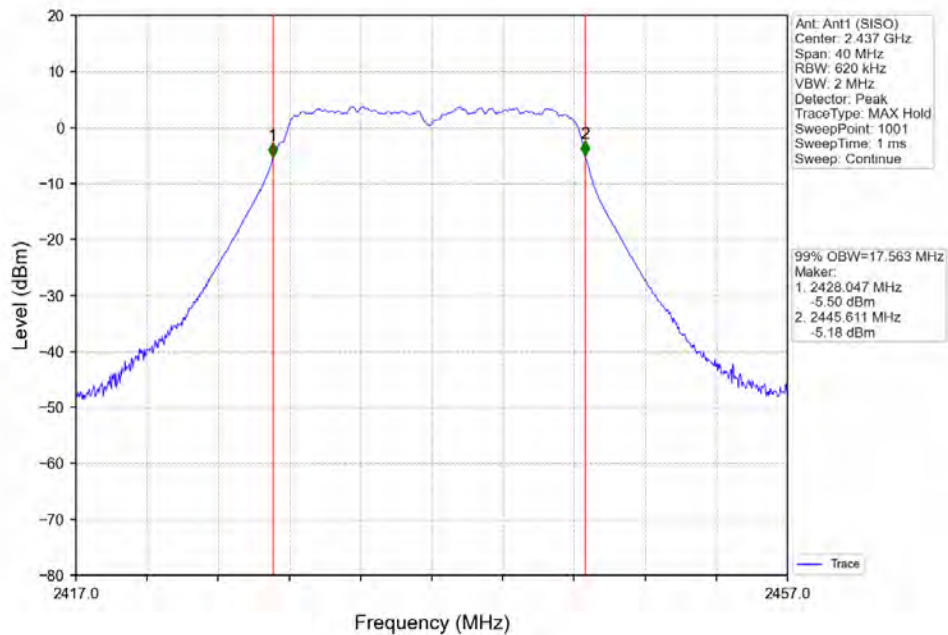
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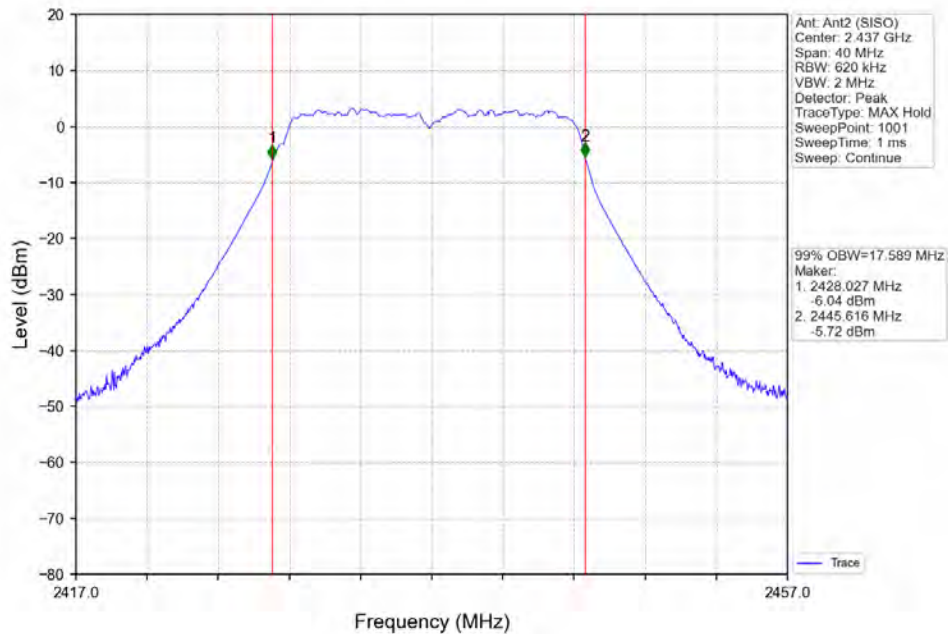
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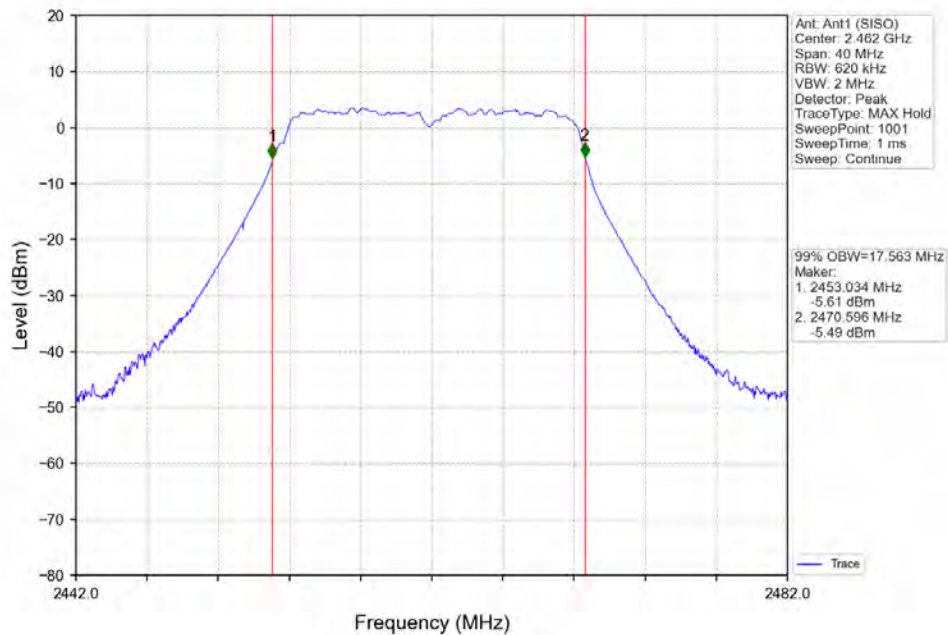
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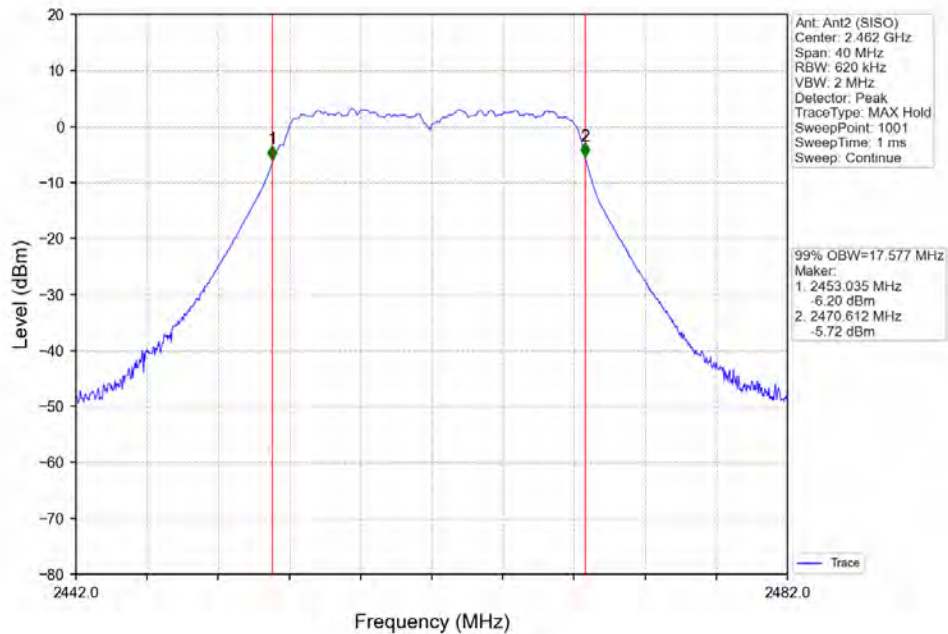
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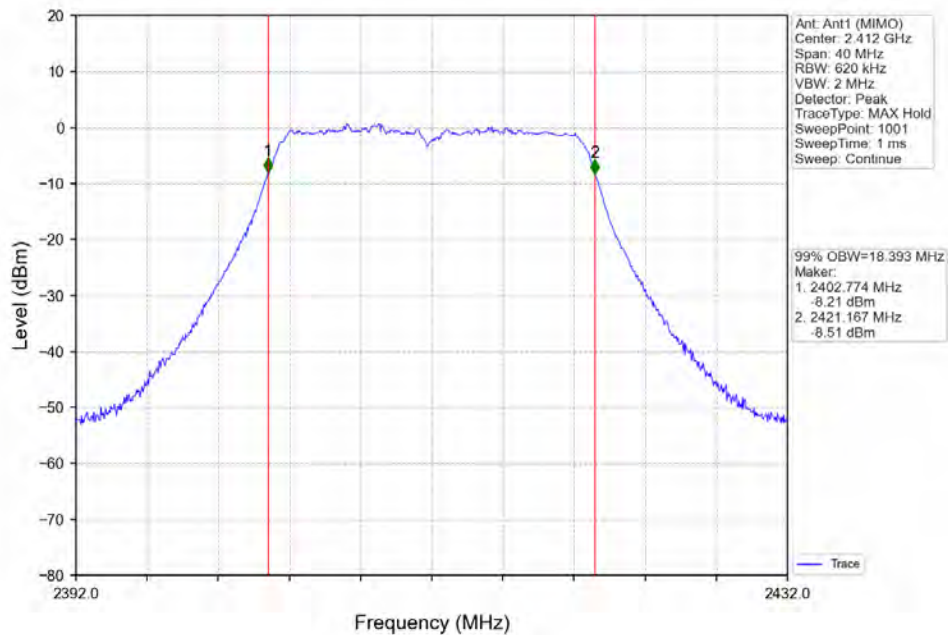
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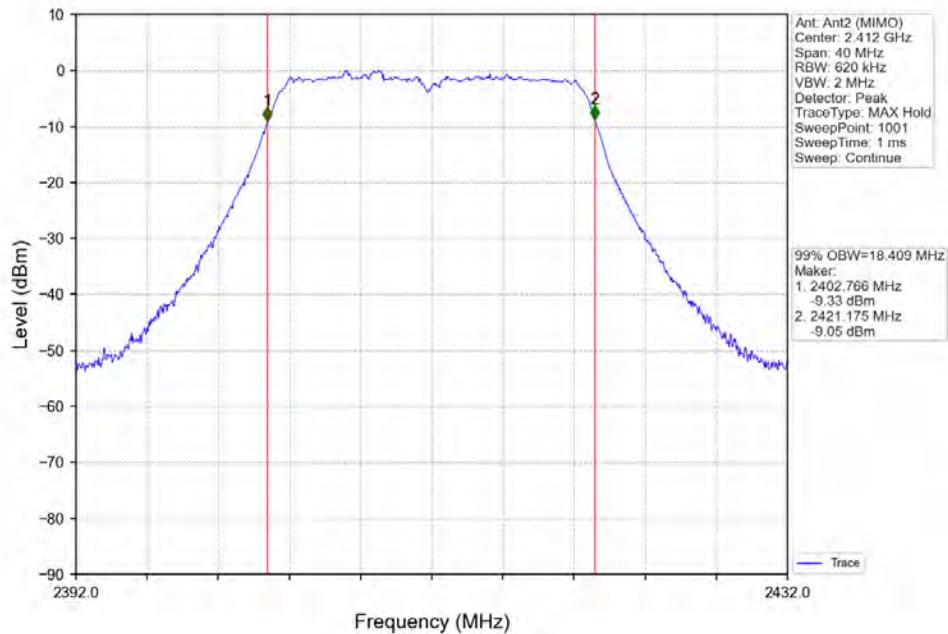
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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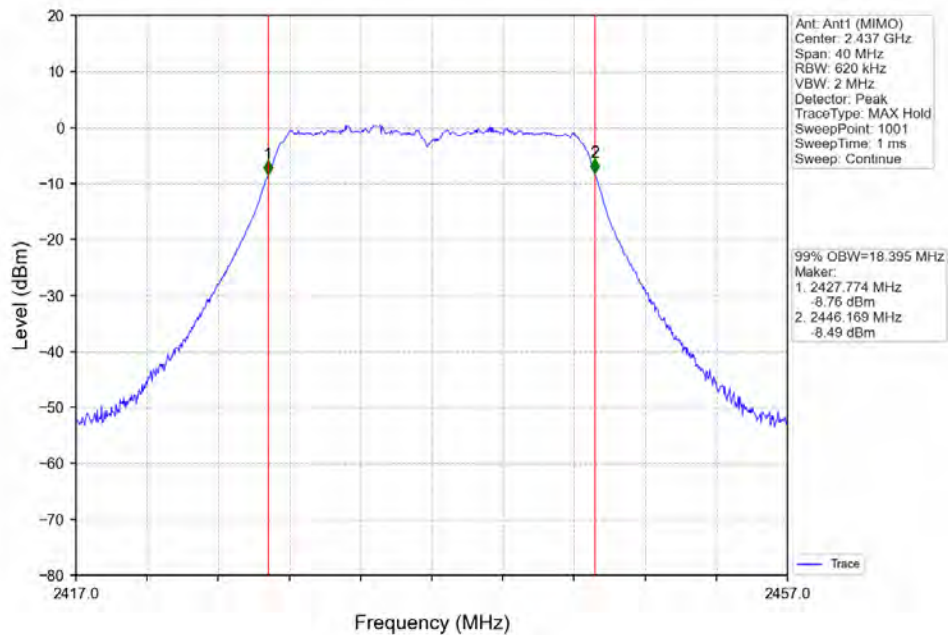
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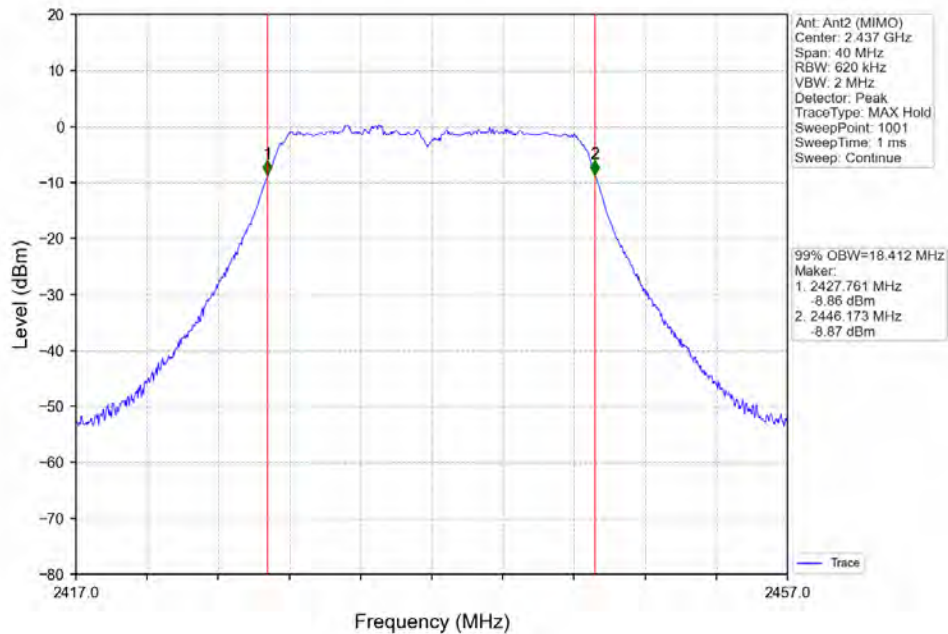
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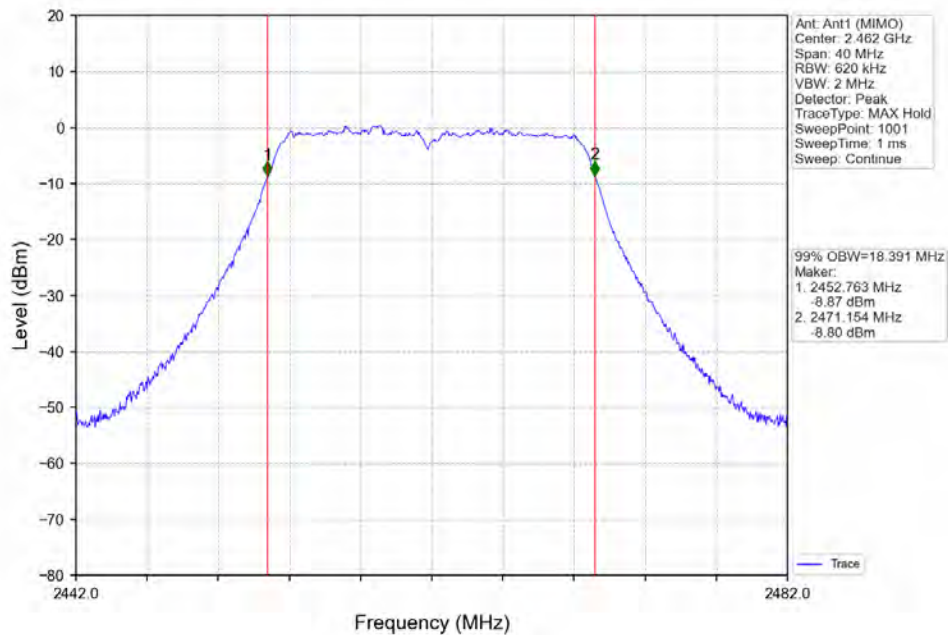
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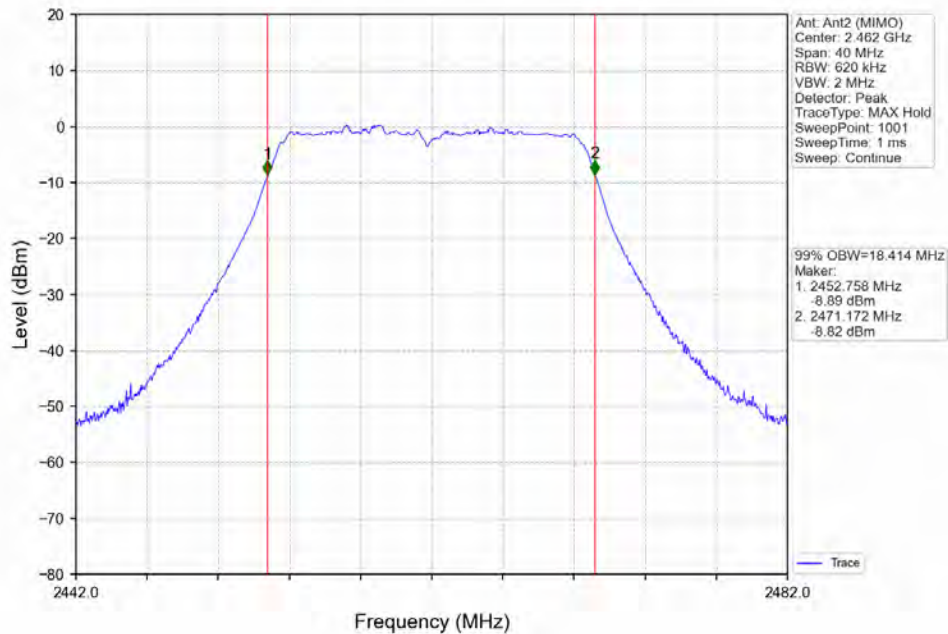
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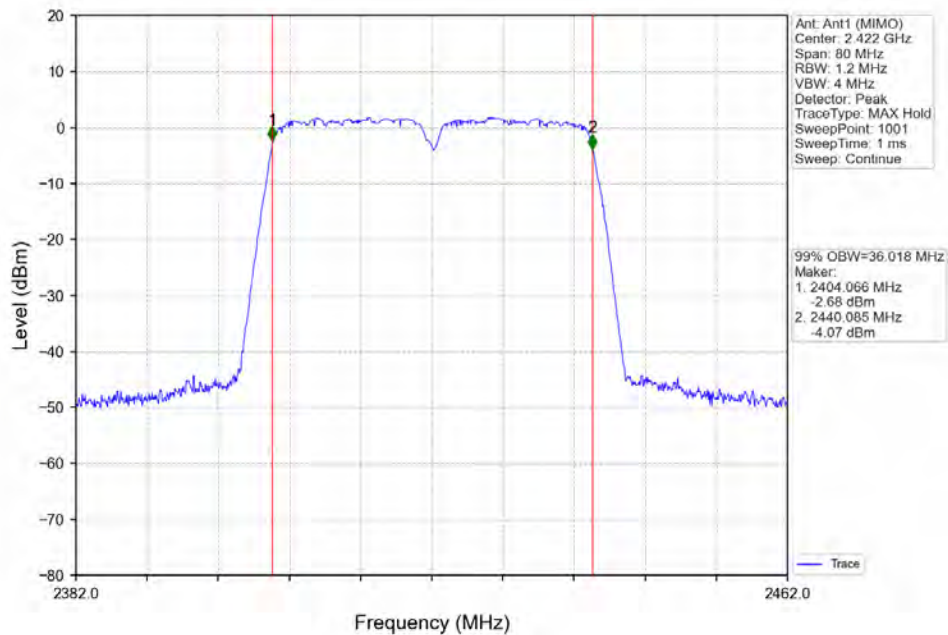
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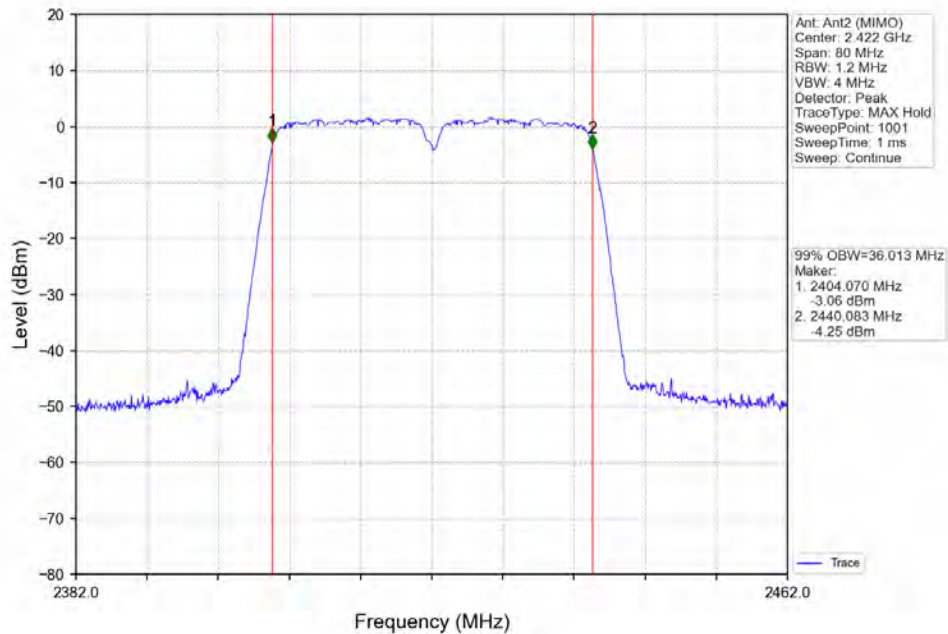
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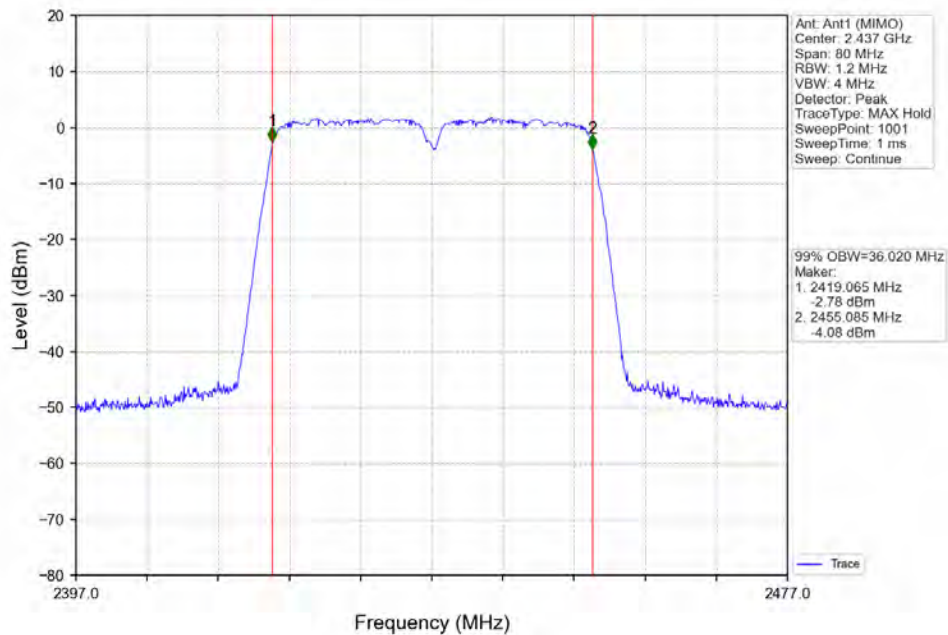
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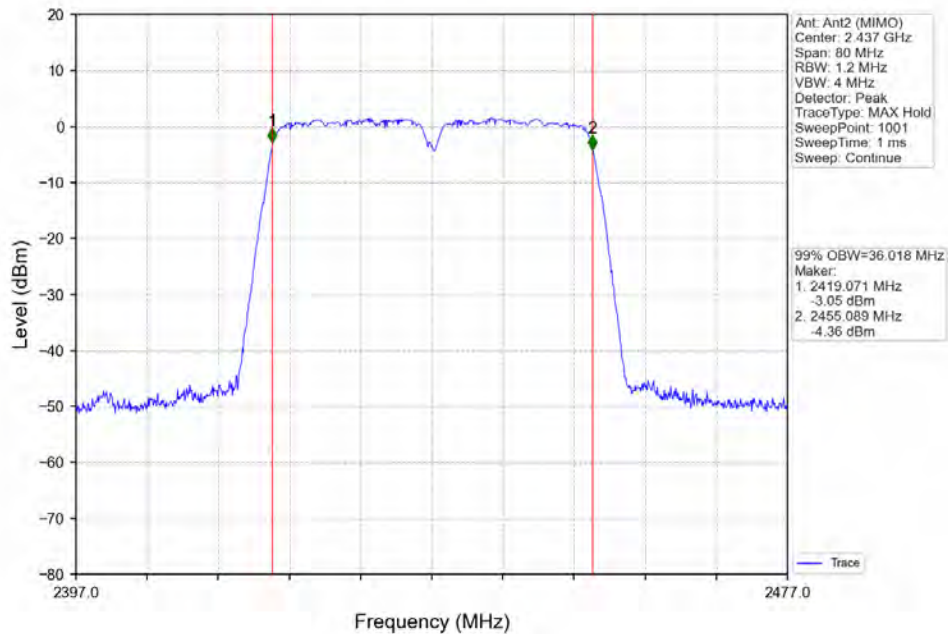
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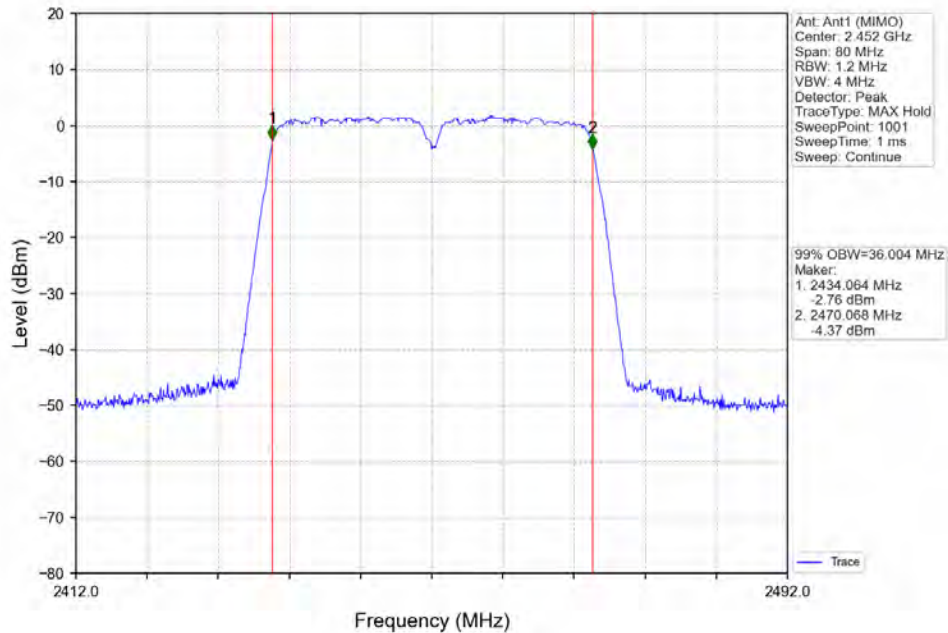
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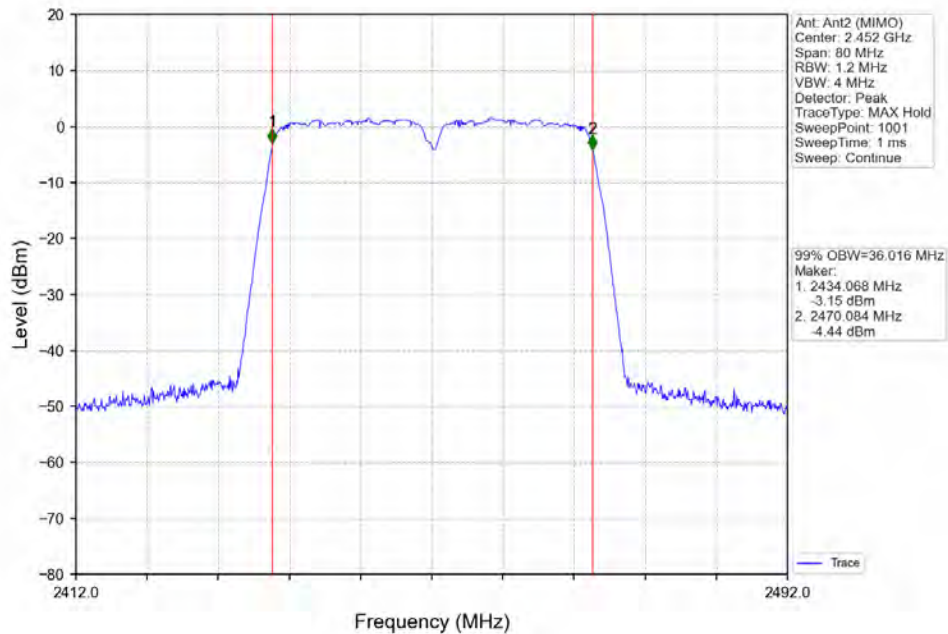
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## 2.2 6dB BW

## 2.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | 6dB Bandwidth (MHz) |            | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
|                |         |                 |     | Result              | Limit      |         |
| 802.11b        | SISO    | 2412            | 1   | 10.105              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 10.105              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 10.106              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 10.106              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 10.103              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 10.106              | $\geq 0.5$ | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 16.586              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 16.586              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 16.590              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 16.588              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 16.584              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 16.592              | $\geq 0.5$ | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | 1   | 17.742              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 17.748              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 17.741              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 17.746              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 17.740              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 17.744              | $\geq 0.5$ | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | 1   | 36.423              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 36.415              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 36.419              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 36.426              | $\geq 0.5$ | Pass    |
|                |         | 2452            | 1   | 36.421              | $\geq 0.5$ | Pass    |
|                |         |                 | 2   | 36.436              | $\geq 0.5$ | Pass    |



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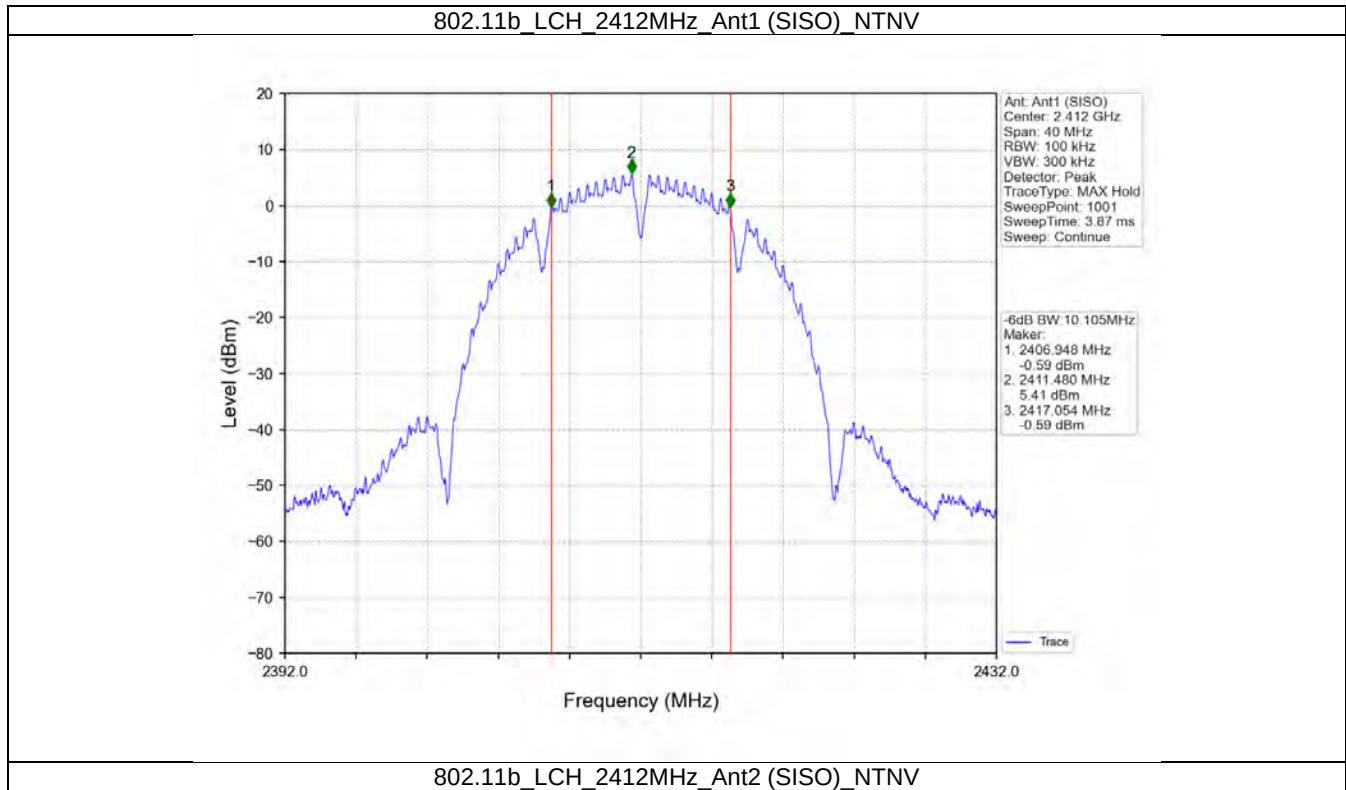
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## 2.2.2 Test Graph



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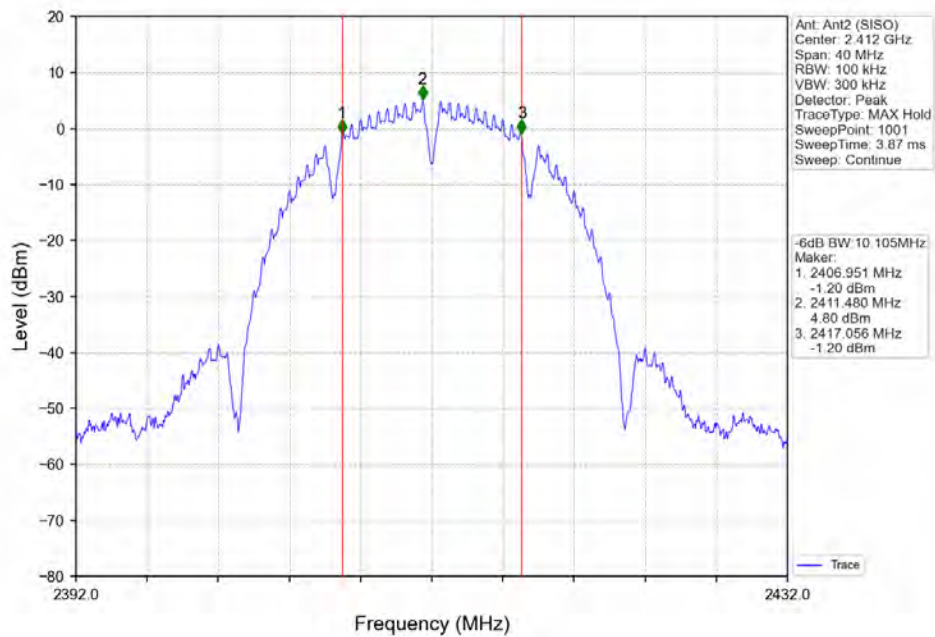
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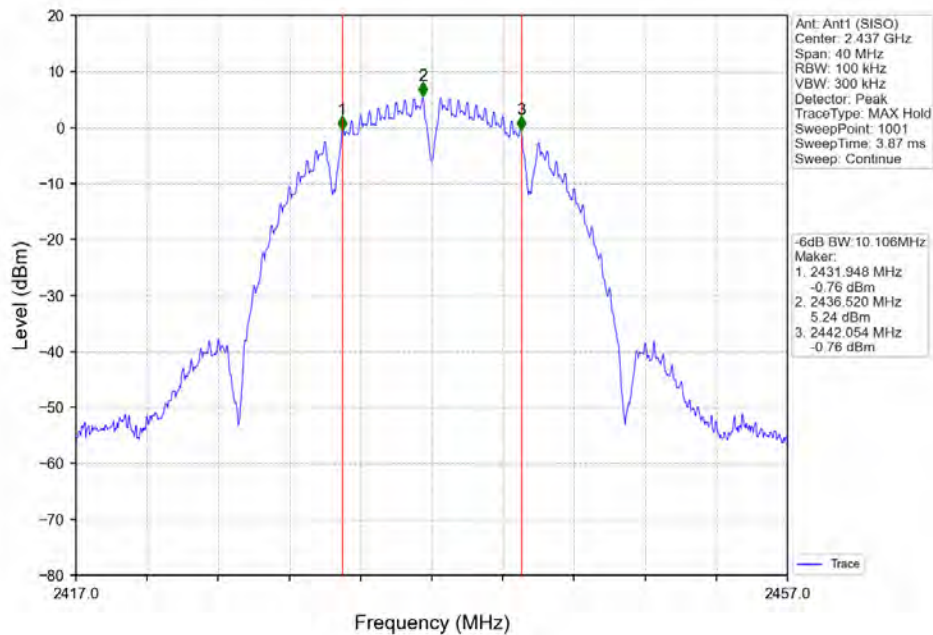
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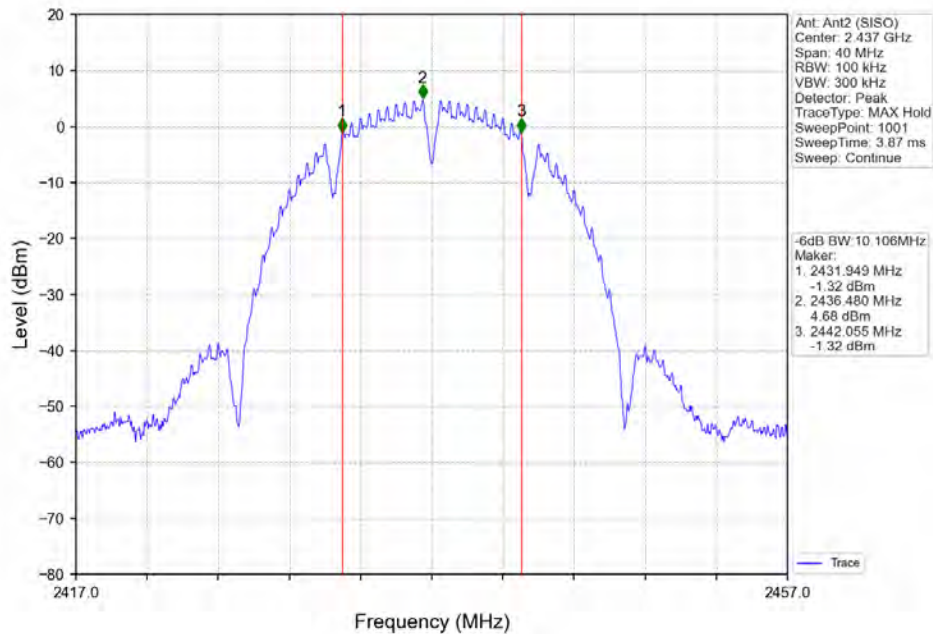
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802.11b MCH 2437MHz\_Ant1 (SISO)\_NTNV



802.11b MCH 2437MHz\_Ant2 (SISO)\_NTNV



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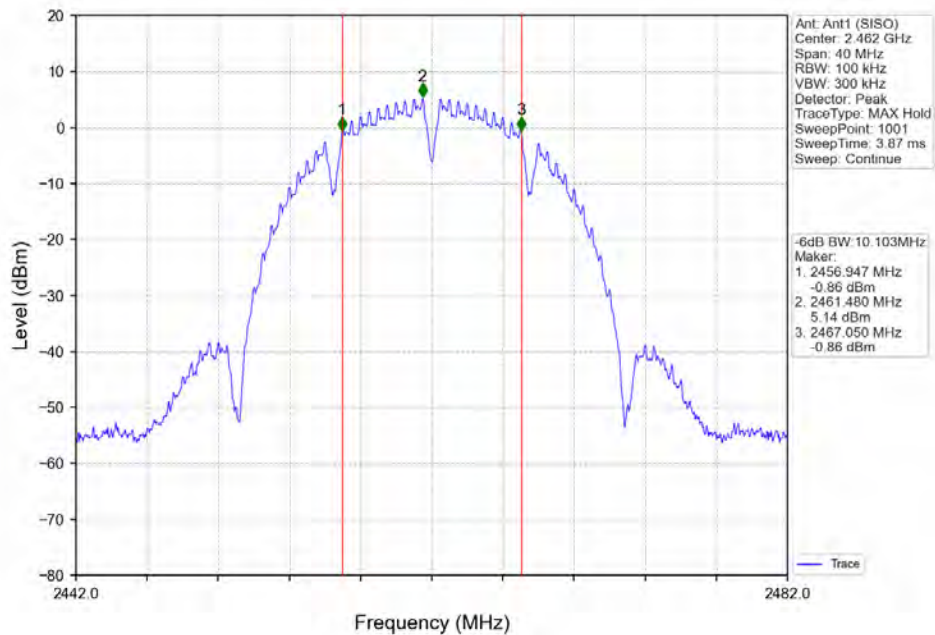
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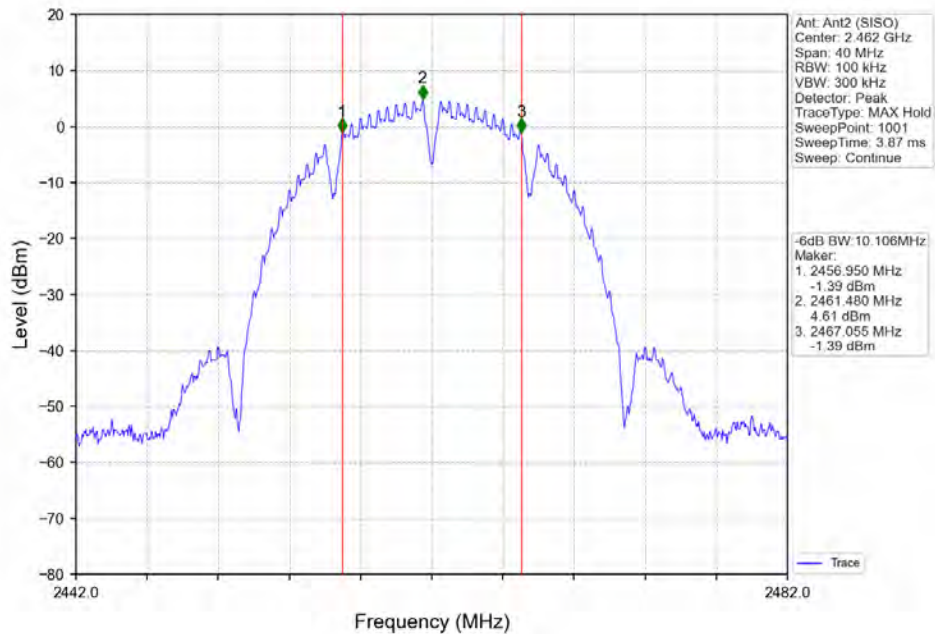
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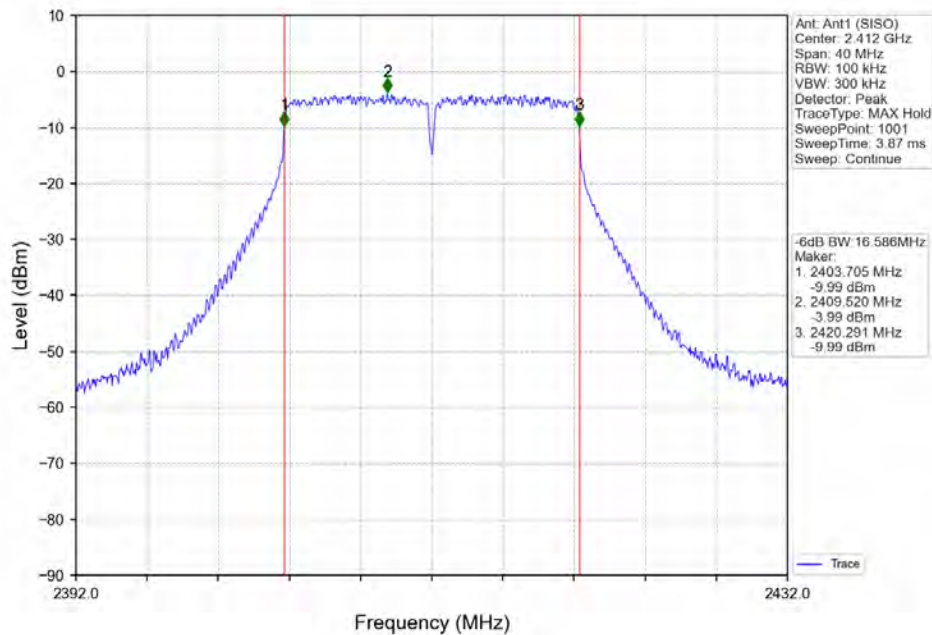
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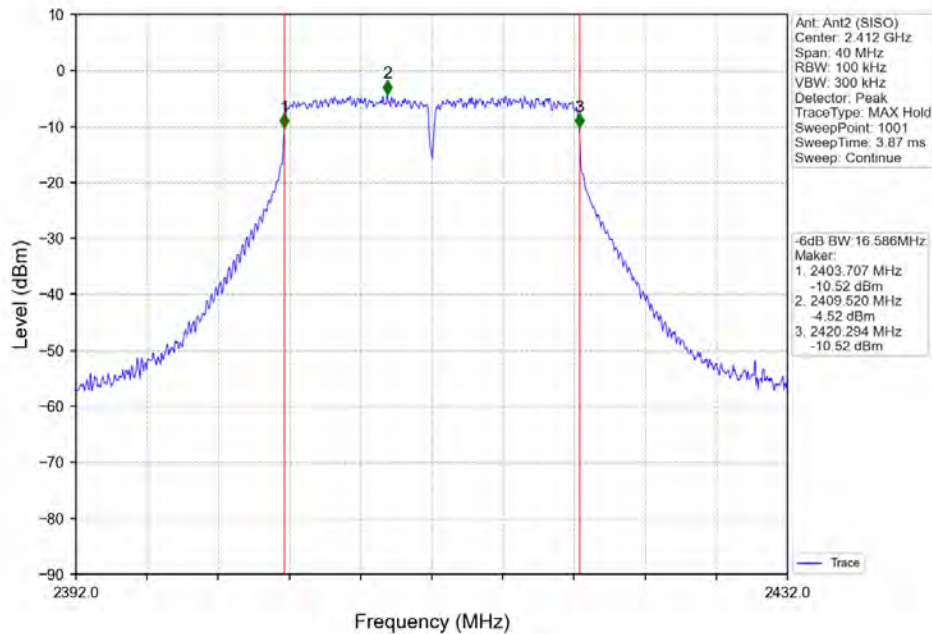
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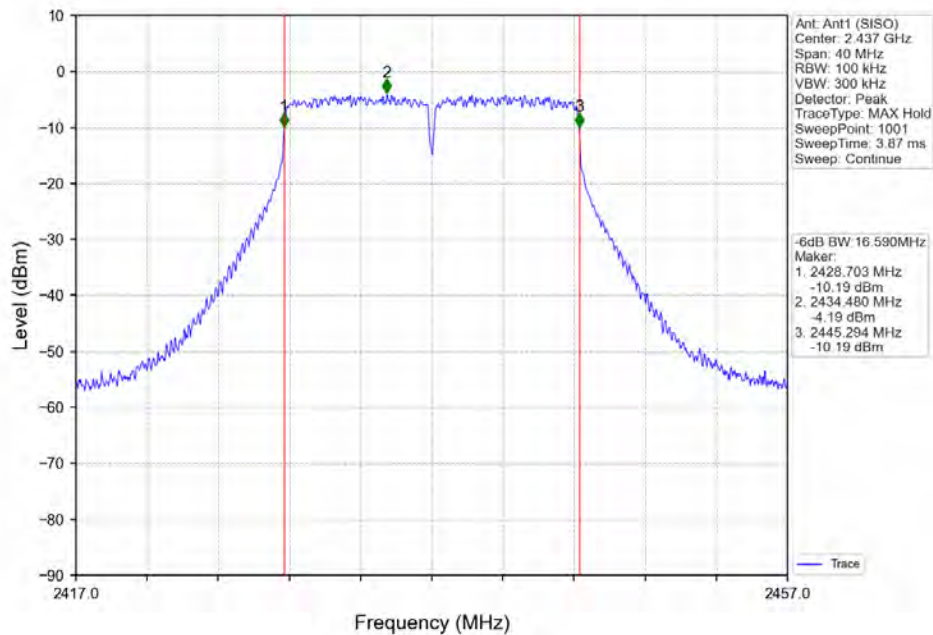
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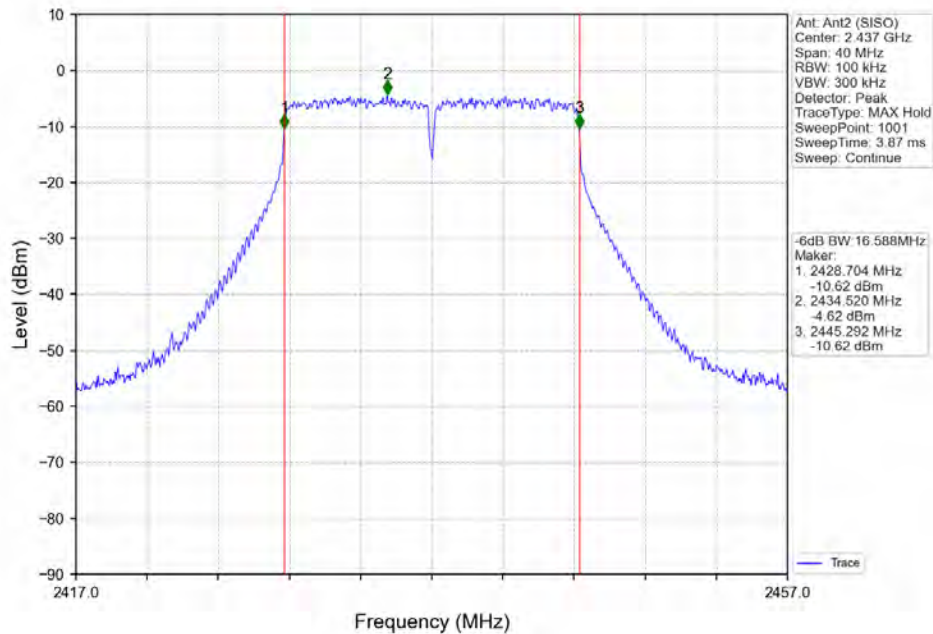
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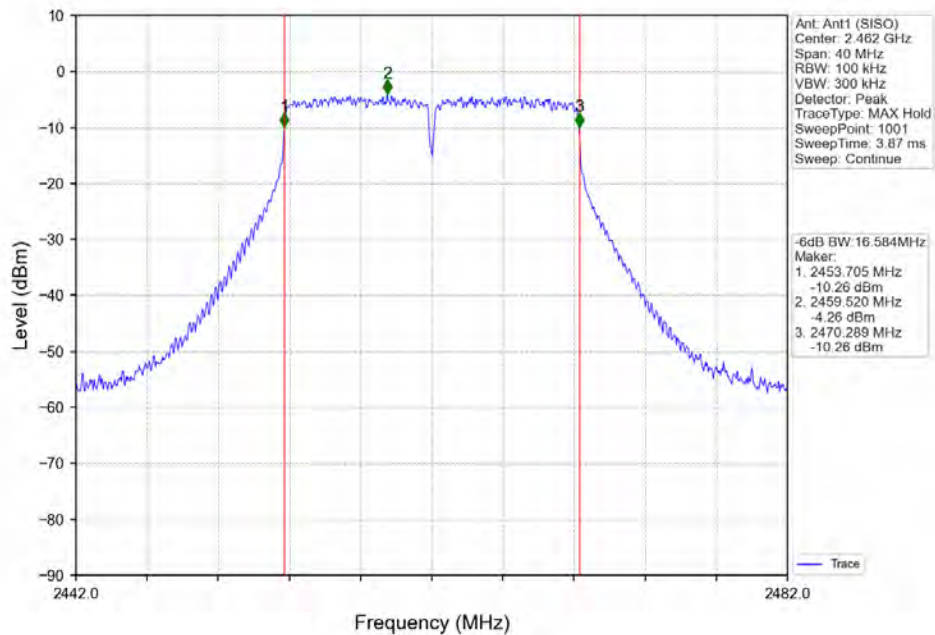
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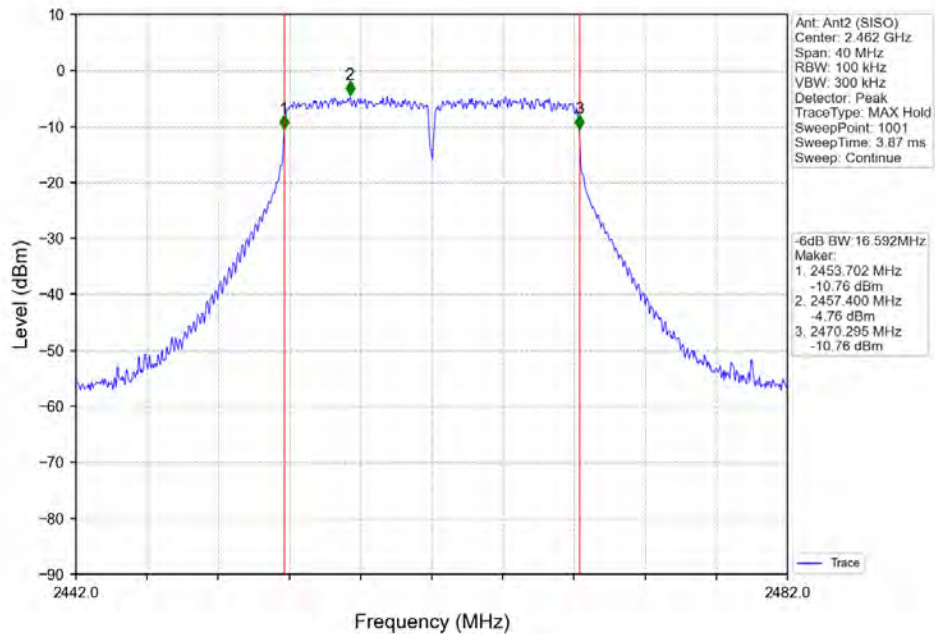
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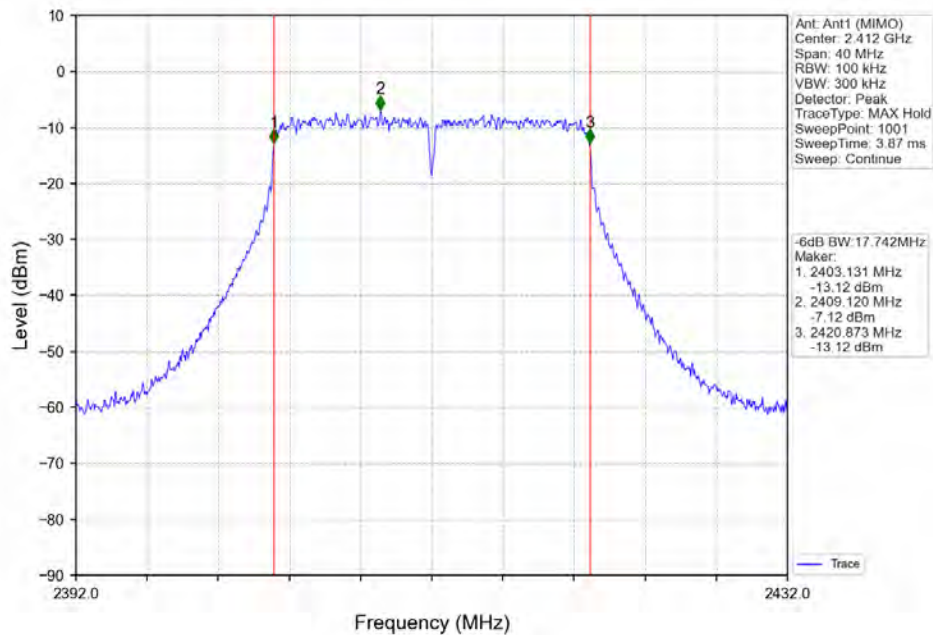
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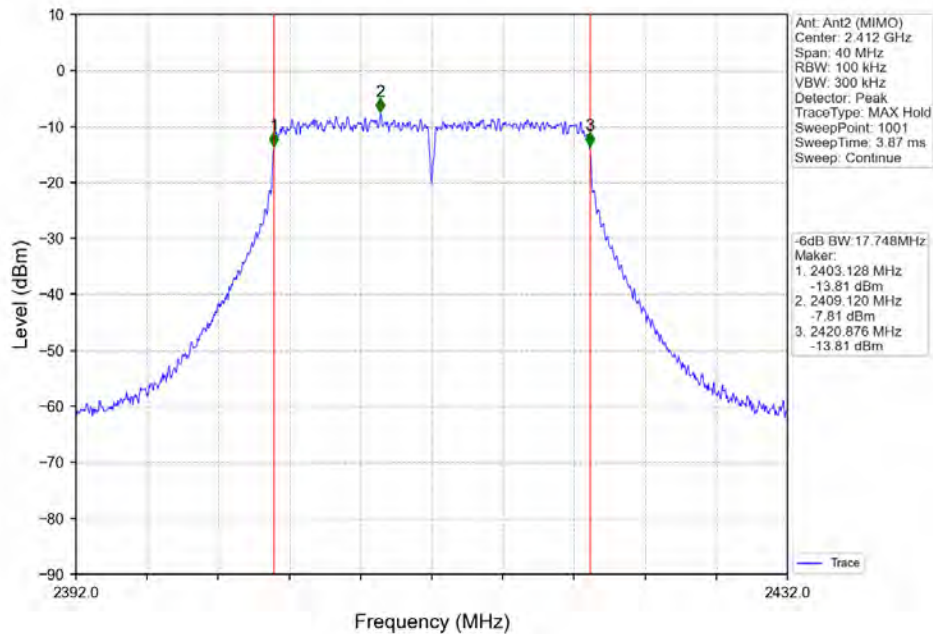
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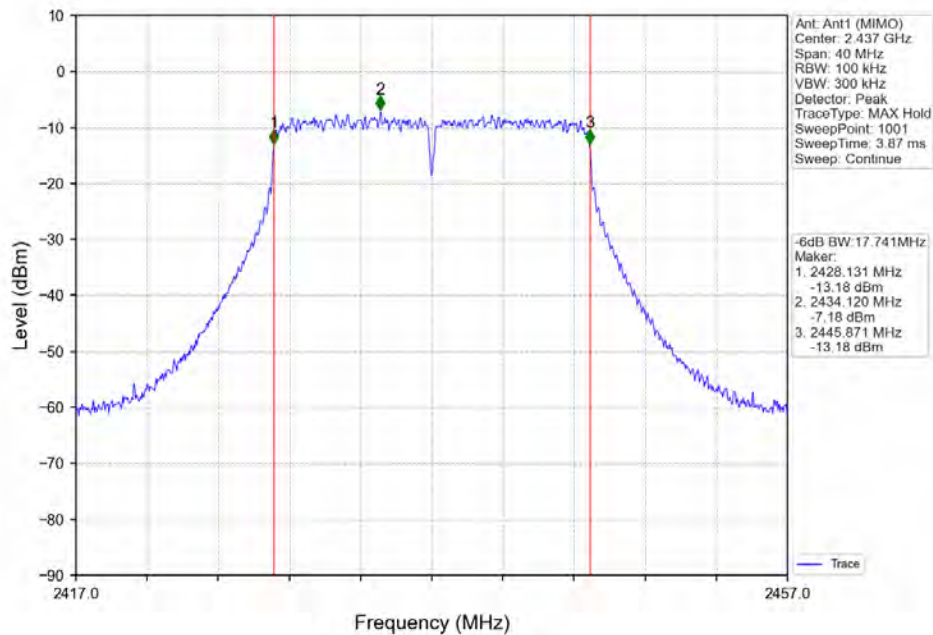
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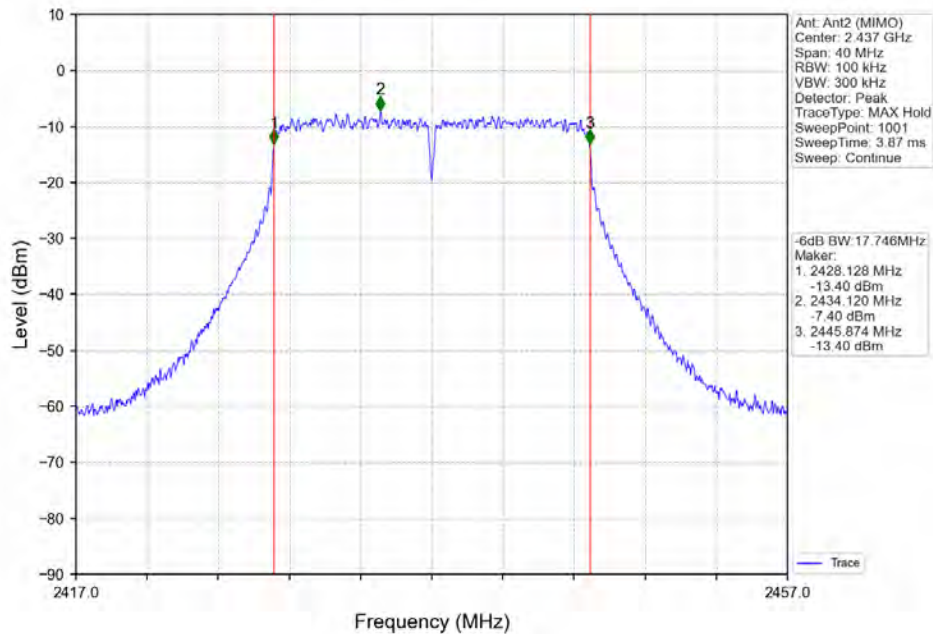
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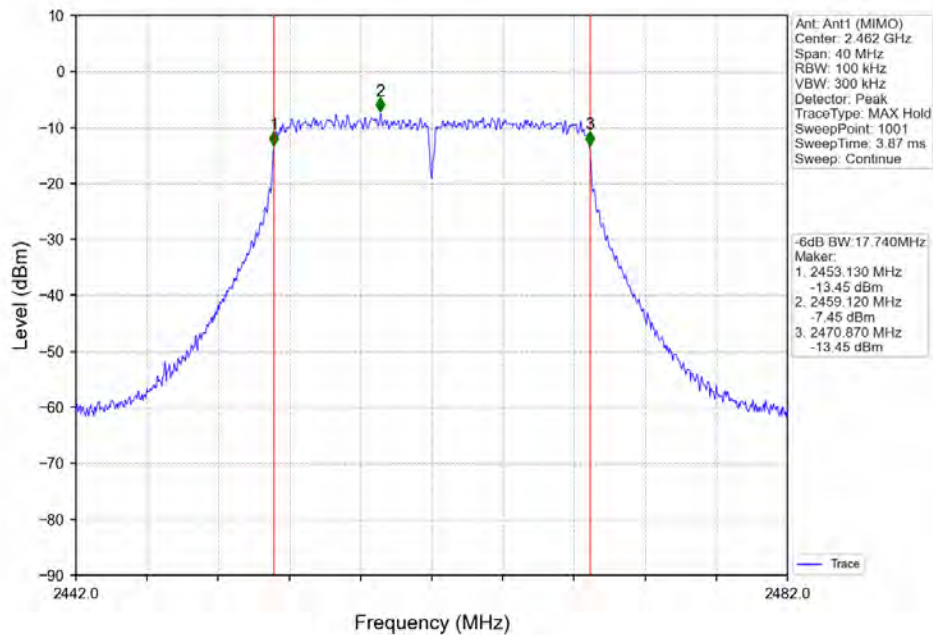
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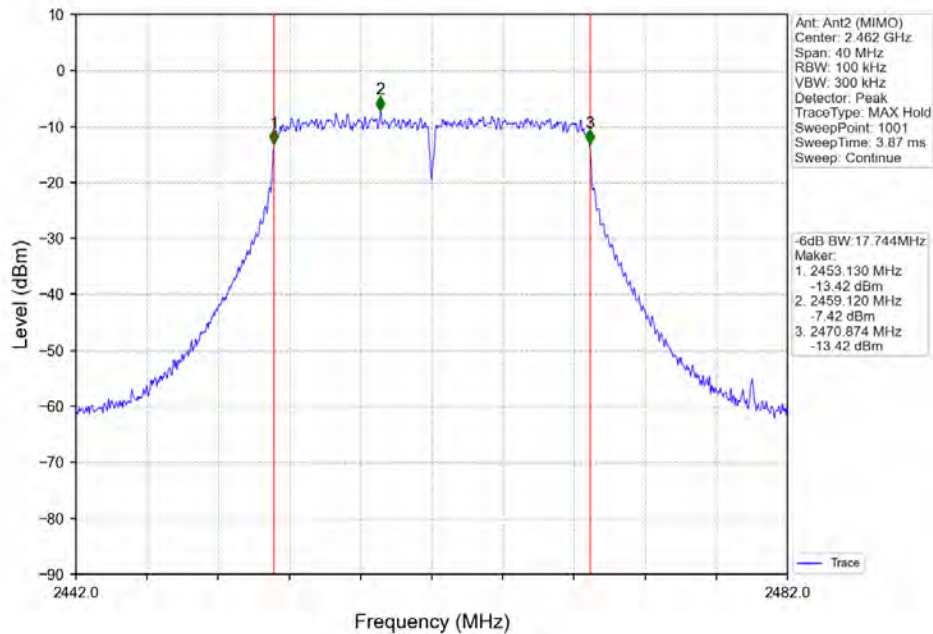
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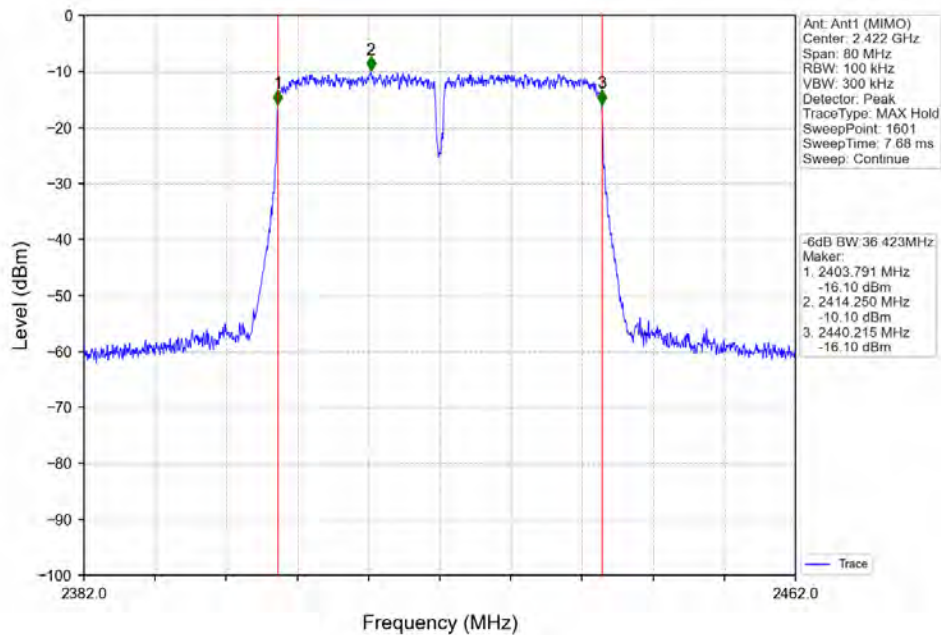
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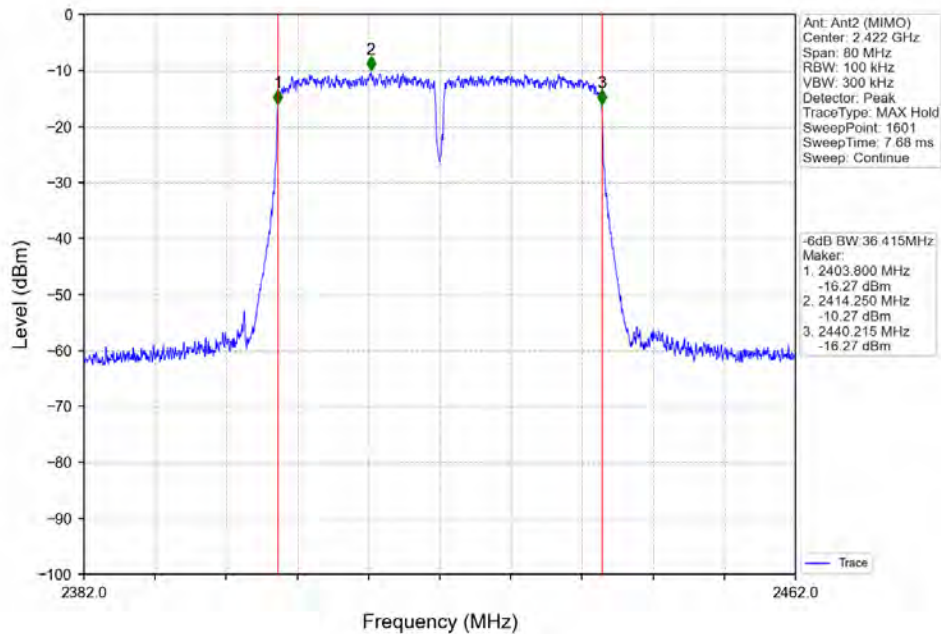
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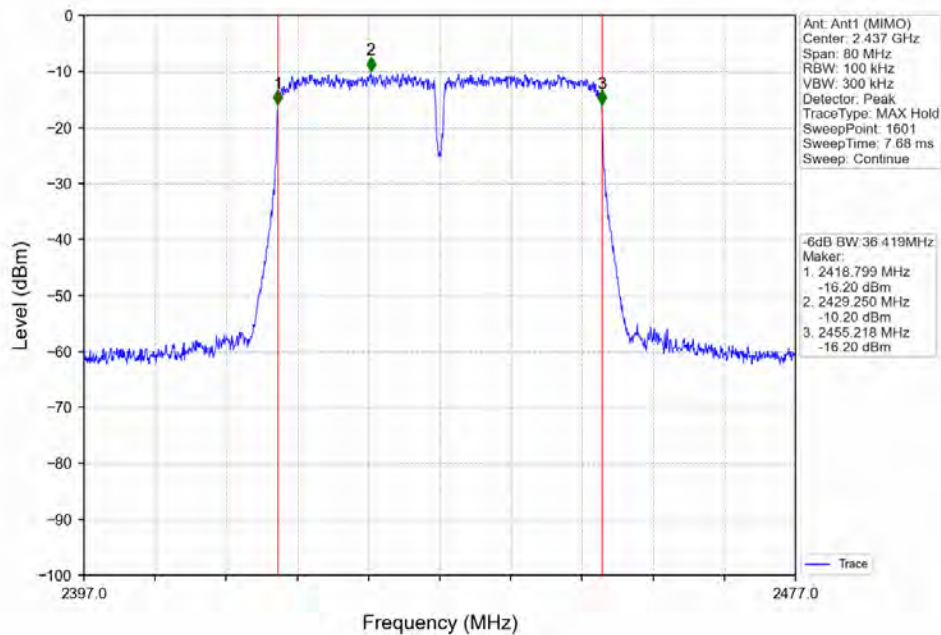
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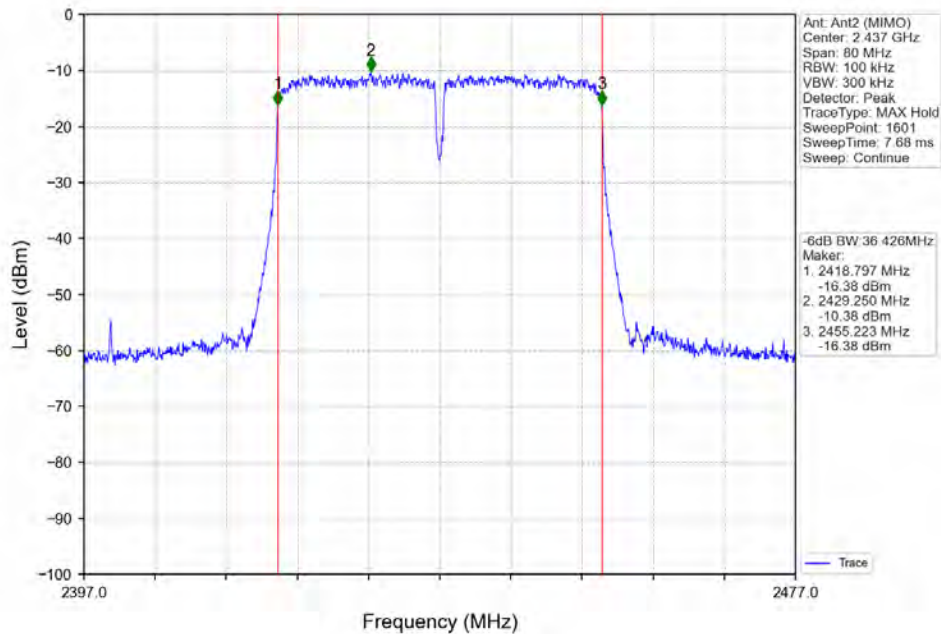
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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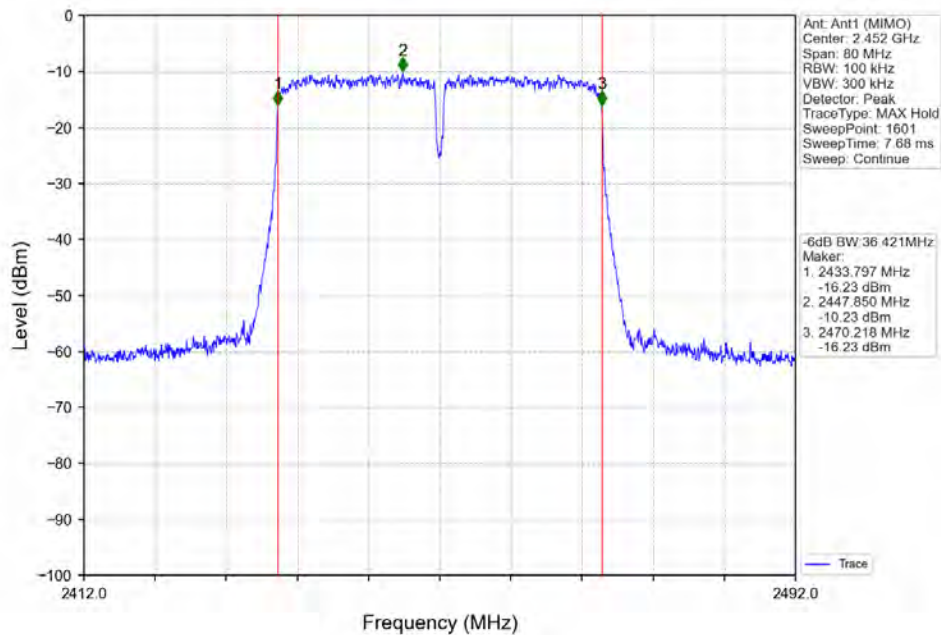
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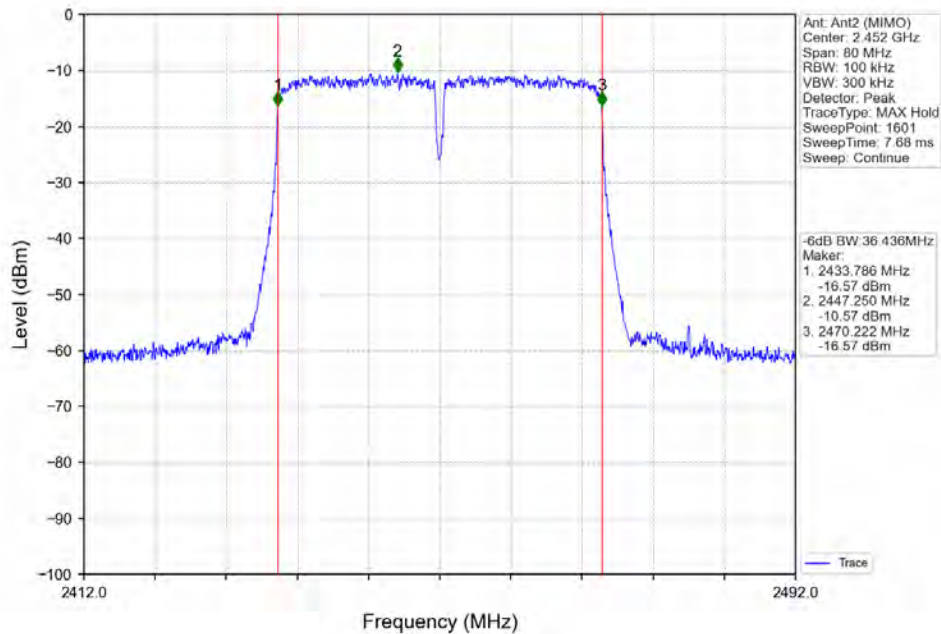
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### 3. Maximum Conducted Output Power

#### 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            | 17.77                                     | 17.16 | /     | <=30  | Pass    |
|                |         | 2437            | 17.60                                     | 17.04 | /     | <=30  | Pass    |
|                |         | 2462            | 17.48                                     | 17.30 | /     | <=30  | Pass    |
| 802.11g        | SISO    | 2412            | 17.85                                     | 17.29 | /     | <=30  | Pass    |
|                |         | 2437            | 17.71                                     | 17.21 | /     | <=30  | Pass    |
|                |         | 2462            | 17.54                                     | 17.14 | /     | <=30  | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | 14.41                                     | 13.75 | 17.10 | <=30  | Pass    |
|                |         | 2437            | 14.31                                     | 14.08 | 17.21 | <=30  | Pass    |
|                |         | 2462            | 14.13                                     | 14.03 | 17.09 | <=30  | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | 14.76                                     | 14.50 | 17.64 | <=30  | Pass    |
|                |         | 2437            | 14.71                                     | 14.44 | 17.59 | <=30  | Pass    |
|                |         | 2452            | 14.59                                     | 14.39 | 17.50 | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 2.5dBi; Ant2: 2.5dBi;

### 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            | -14.71                 | -15.31 | /      | <=8   | Pass    |
|                |         | 2437            | -14.91                 | -15.47 | /      | <=8   | Pass    |
|                |         | 2462            | -14.98                 | -15.55 | /      | <=8   | Pass    |
| 802.11g        | SISO    | 2412            | -18.47                 | -18.96 | /      | <=8   | Pass    |
|                |         | 2437            | -18.58                 | -19.05 | /      | <=8   | Pass    |
|                |         | 2462            | -18.77                 | -19.08 | /      | <=8   | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | -21.23                 | -21.88 | -18.53 | <=8   | Pass    |
|                |         | 2437            | -21.65                 | -21.81 | -18.72 | <=8   | Pass    |
|                |         | 2462            | -21.77                 | -22.08 | -19.17 | <=8   | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | -21.33                 | -21.24 | -18.28 | <=8   | Pass    |
|                |         | 2437            | -22.97                 | -23.52 | -20.23 | <=8   | Pass    |
|                |         | 2452            | -21.10                 | -23.18 | -19.37 | <=8   | Pass    |

Note1: Antenna Gain: Ant1: 2.5dBi; Ant2: 2.5dBi;



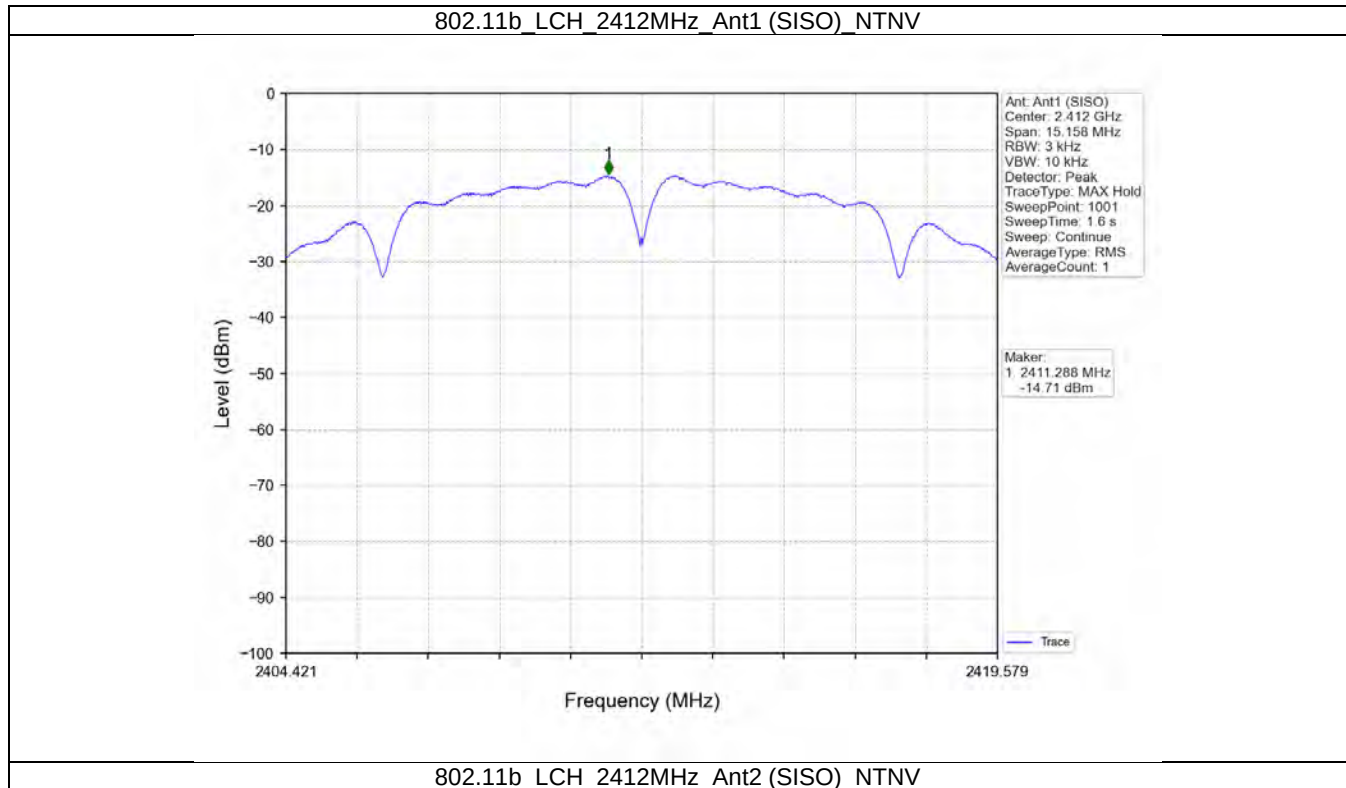
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## 4.1.2 Test Graph



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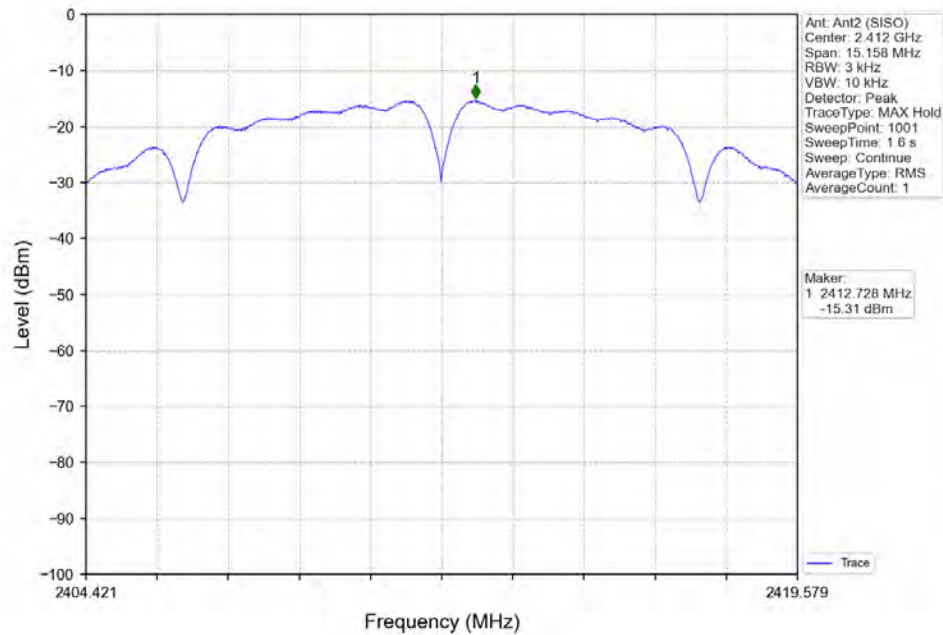
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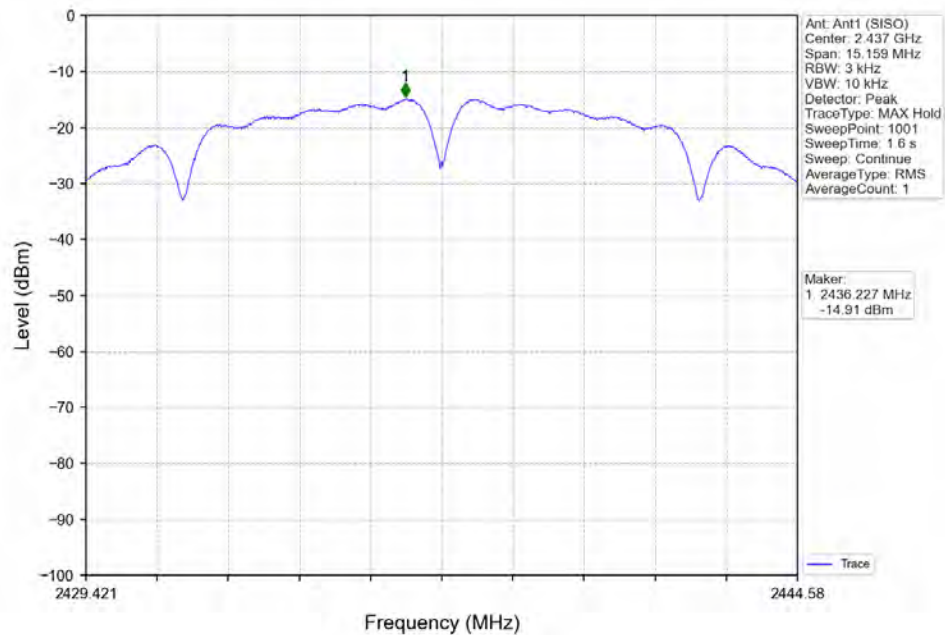
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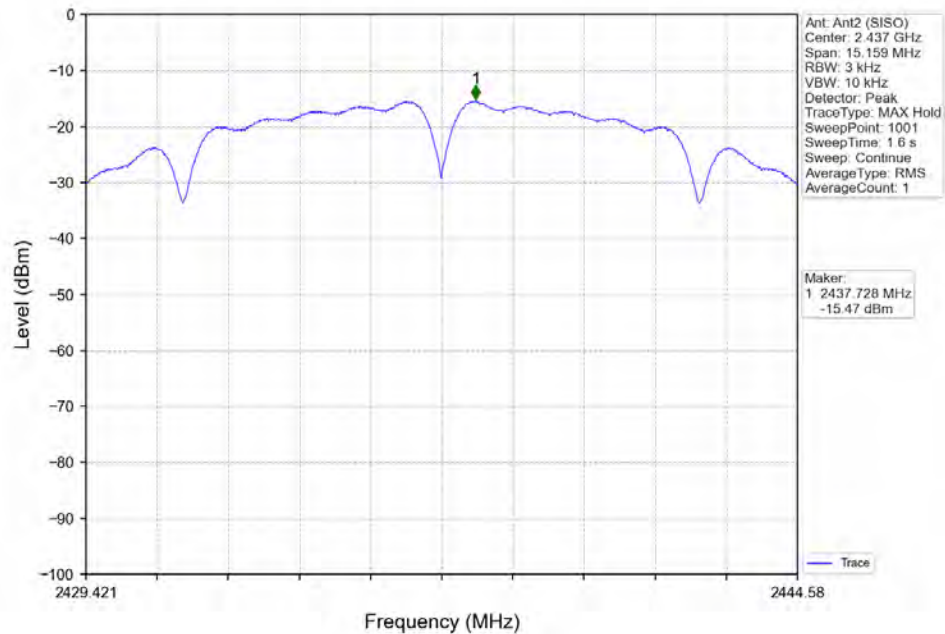
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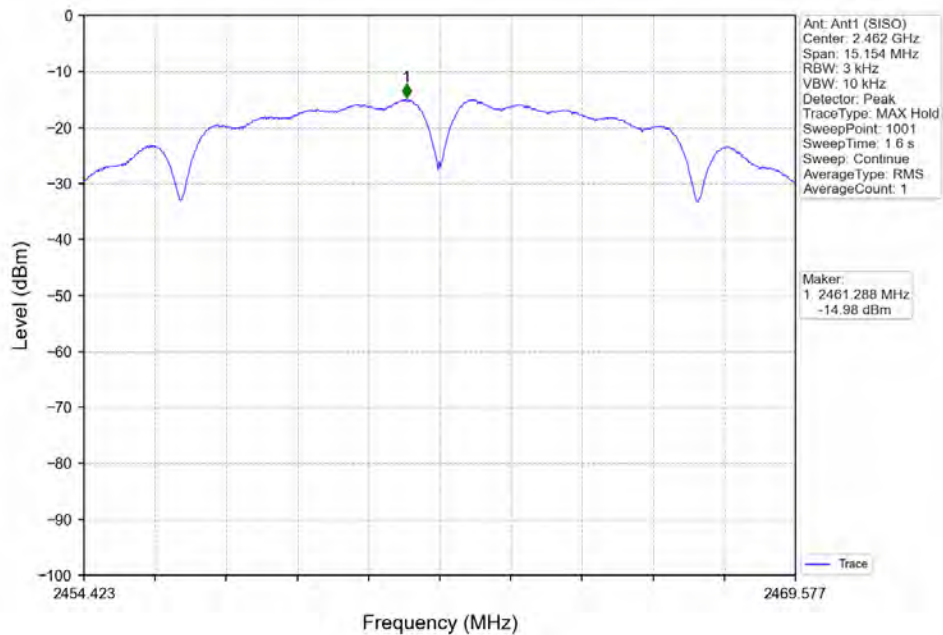
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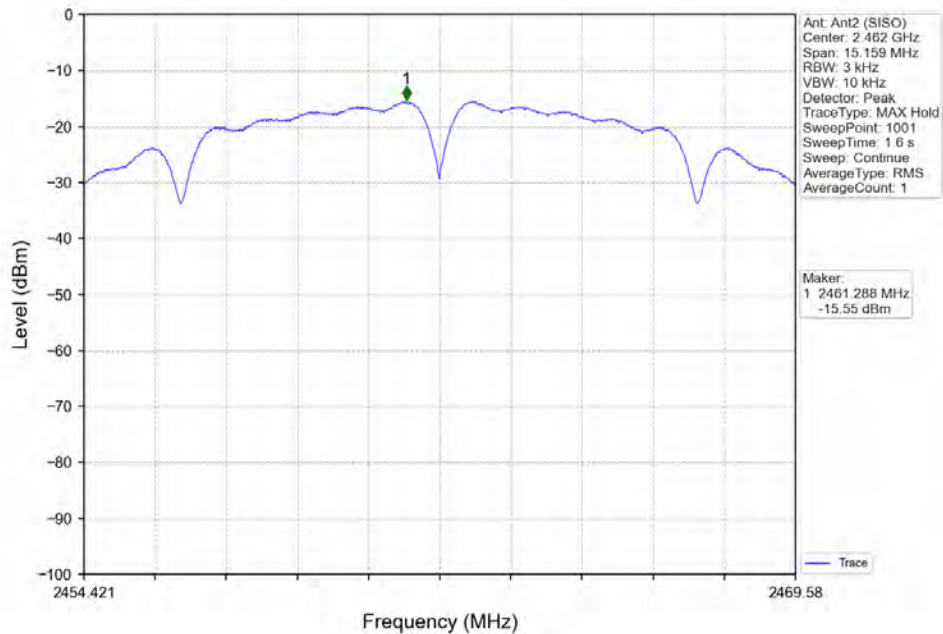
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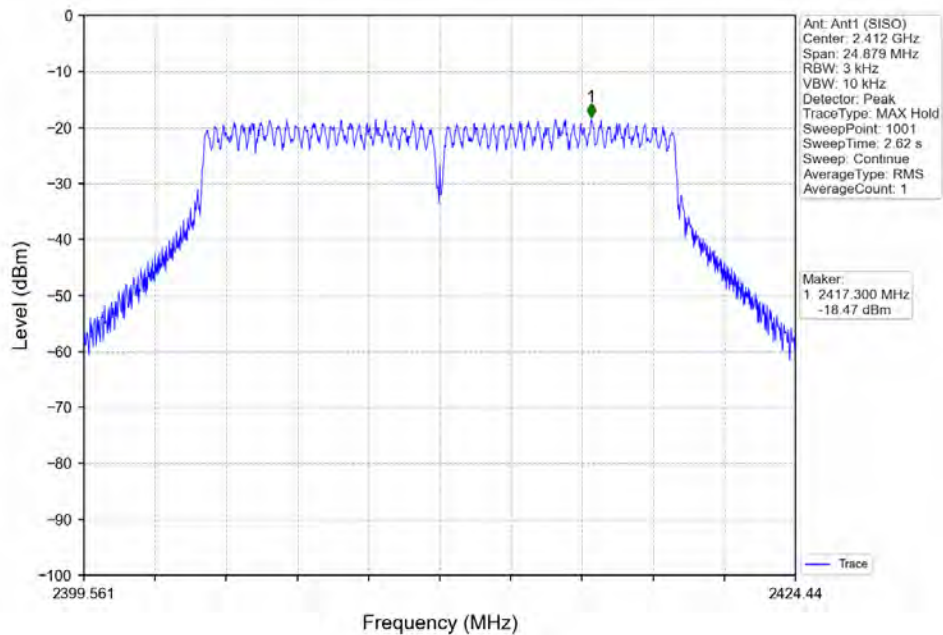
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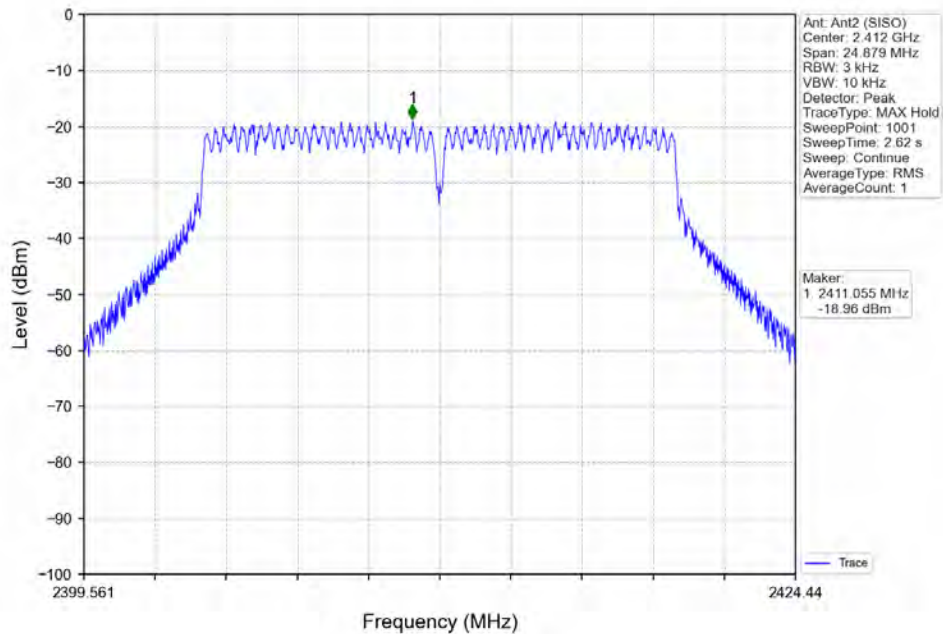
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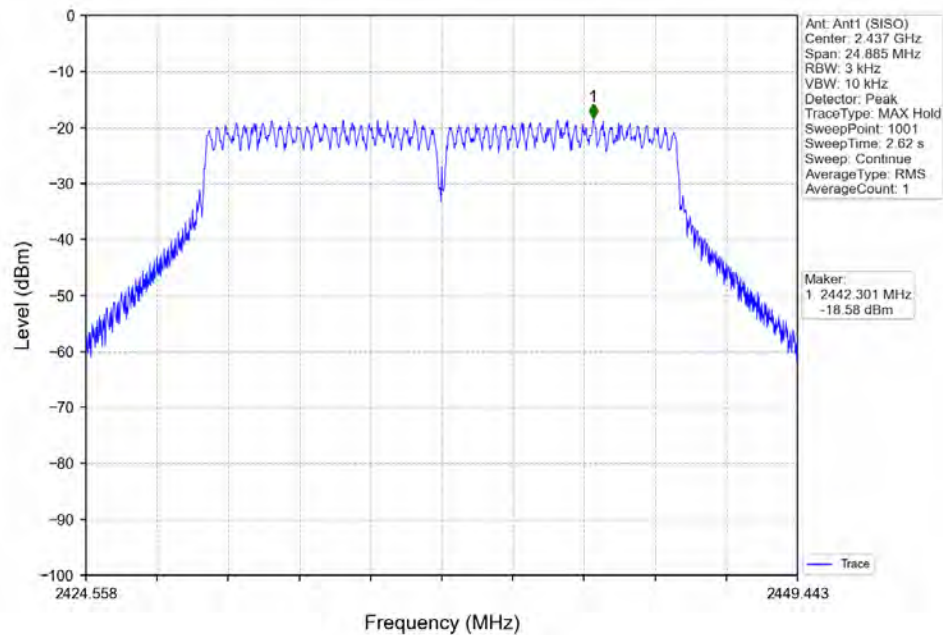
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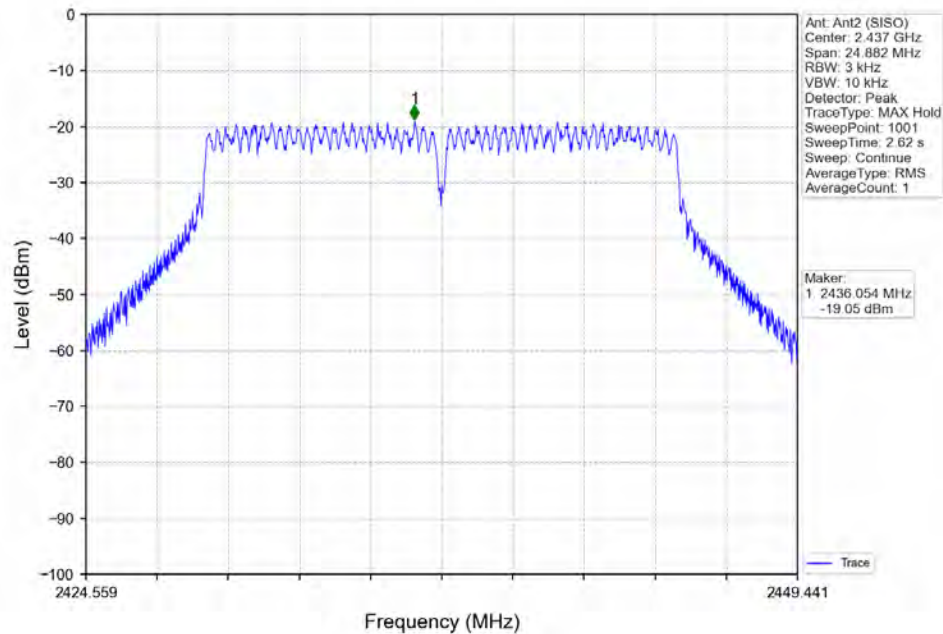
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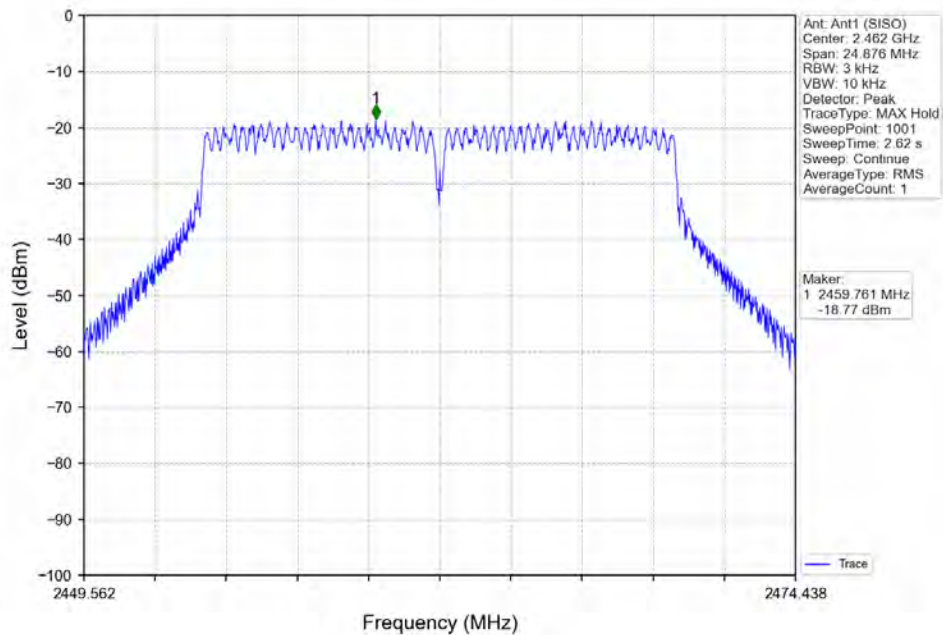
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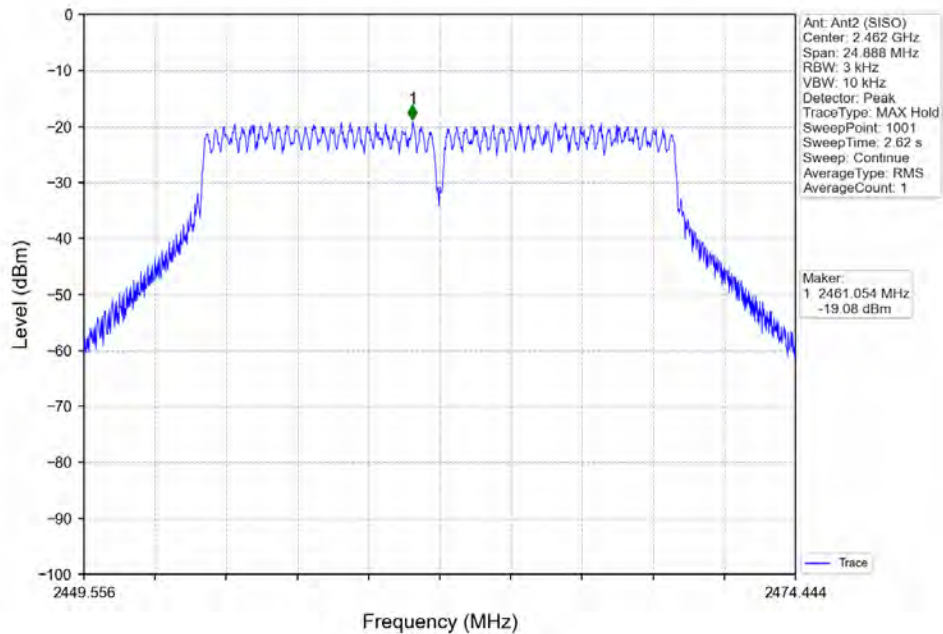
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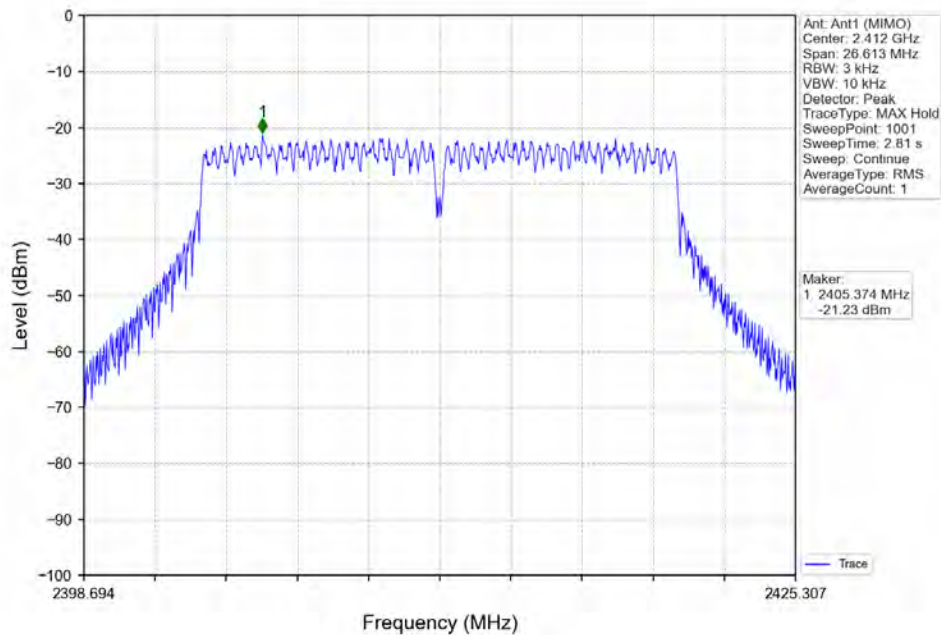
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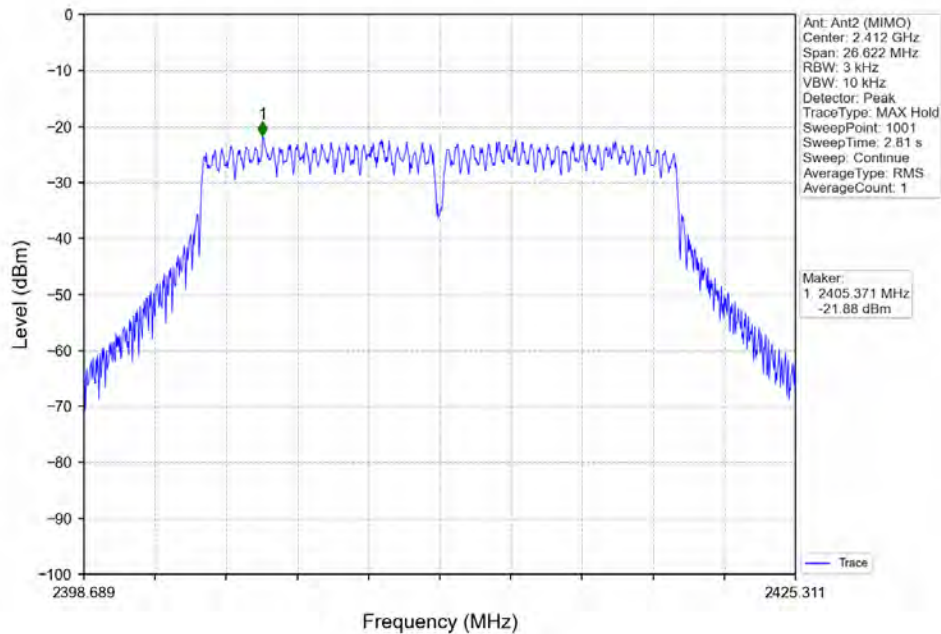
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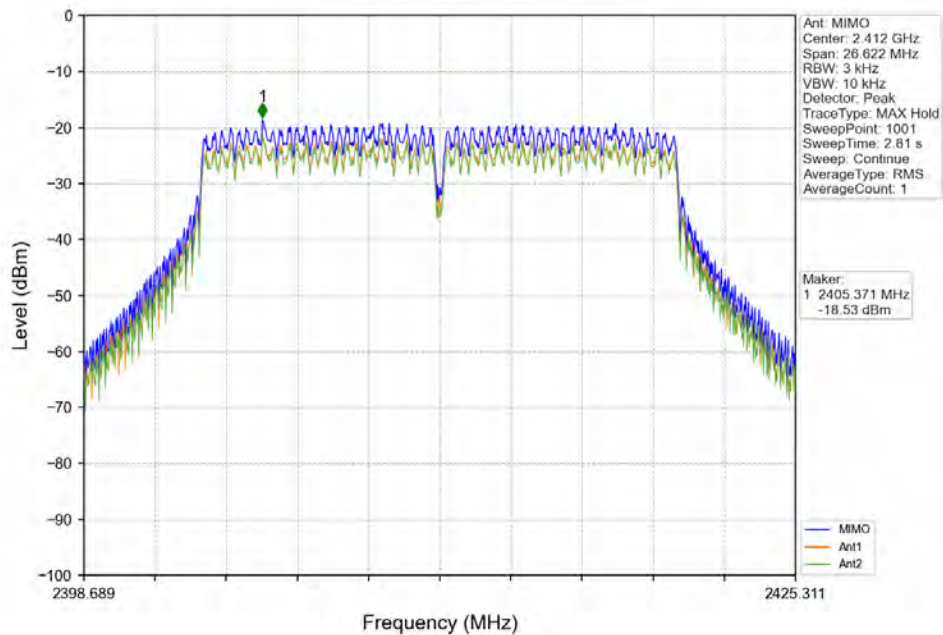
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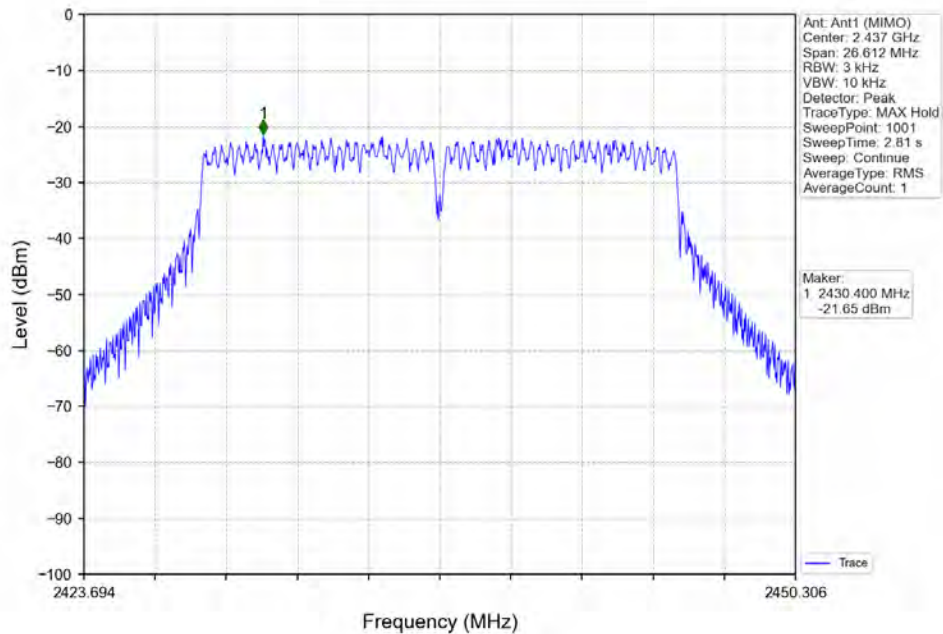
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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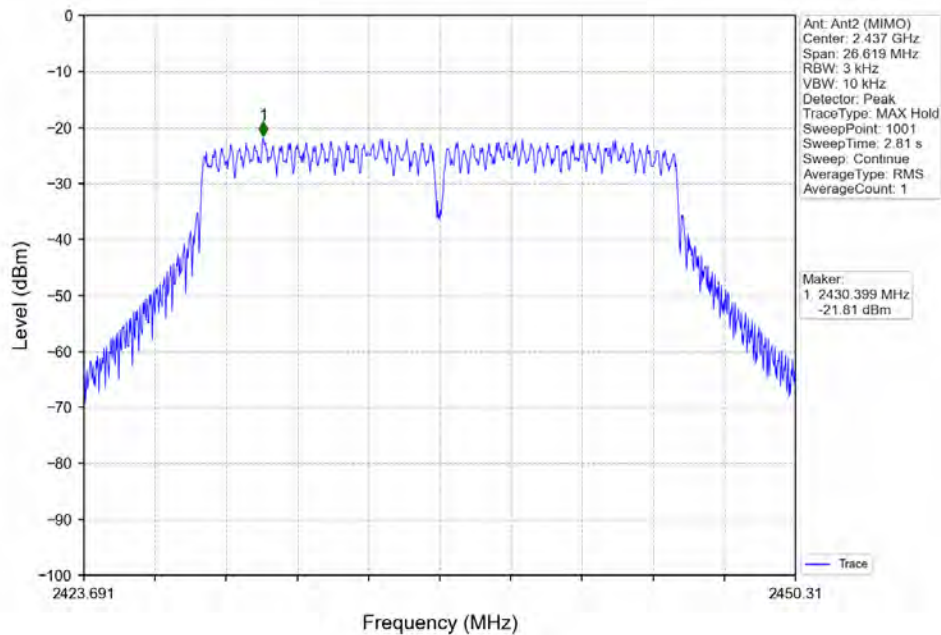
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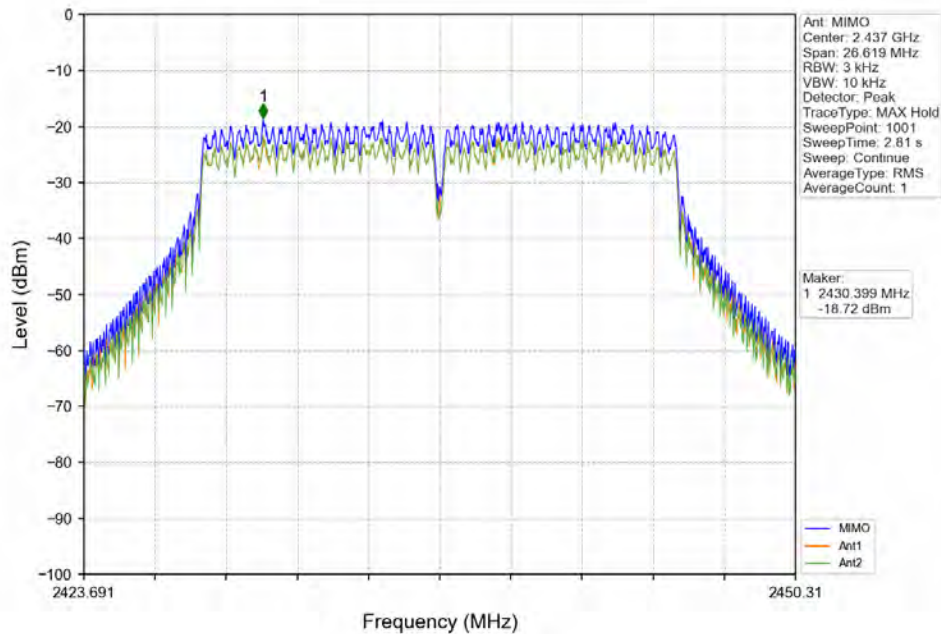
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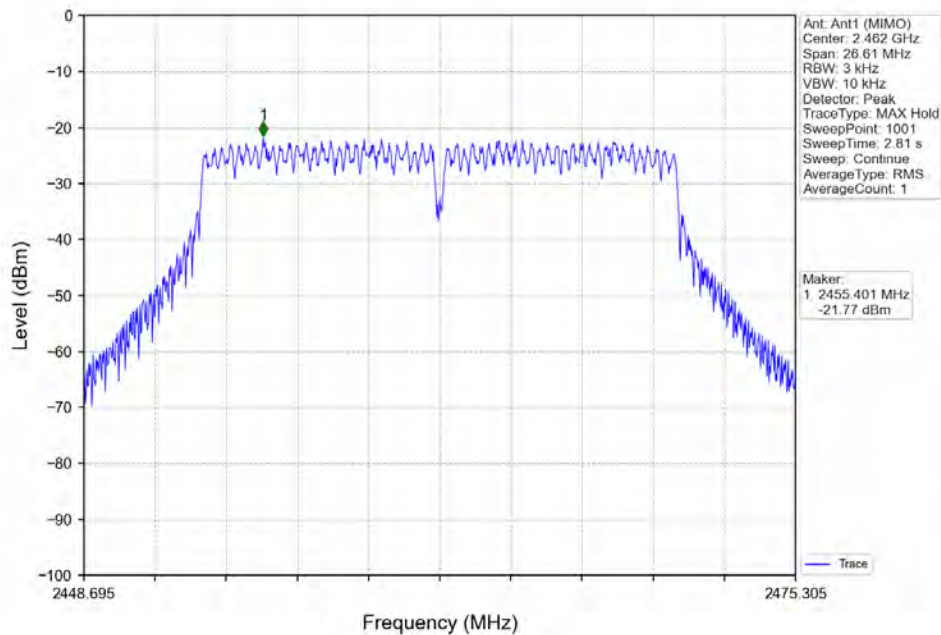
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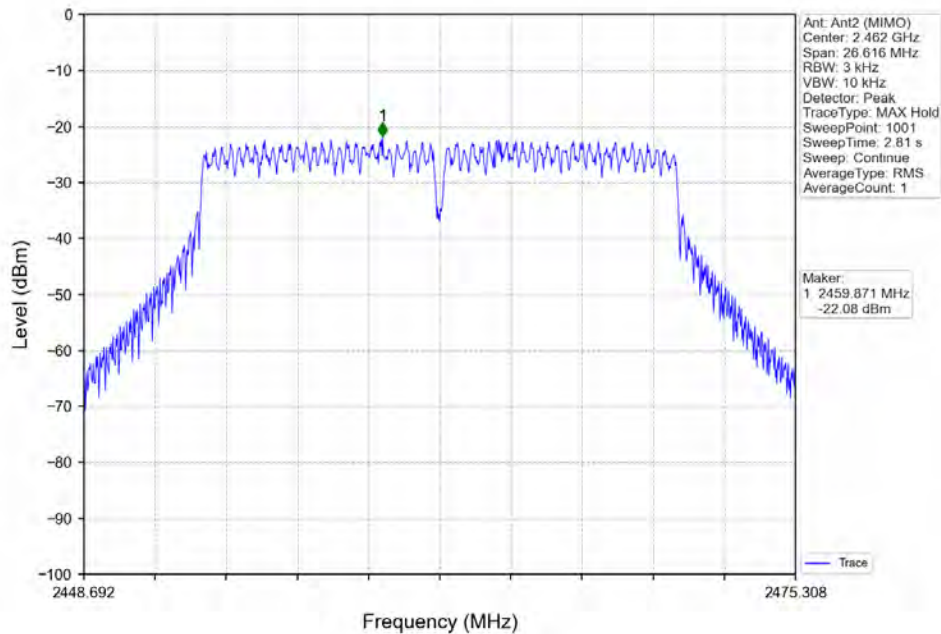
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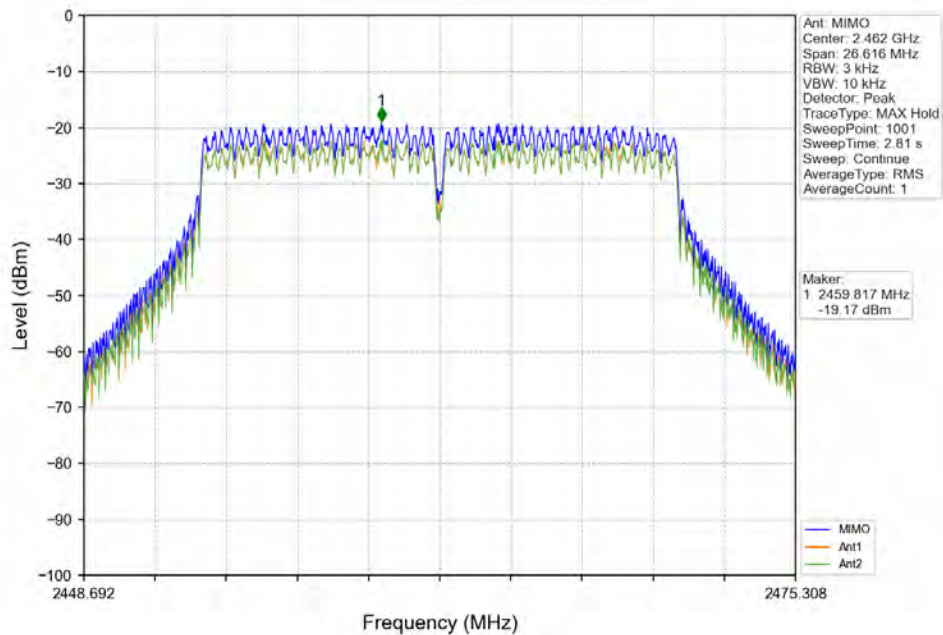
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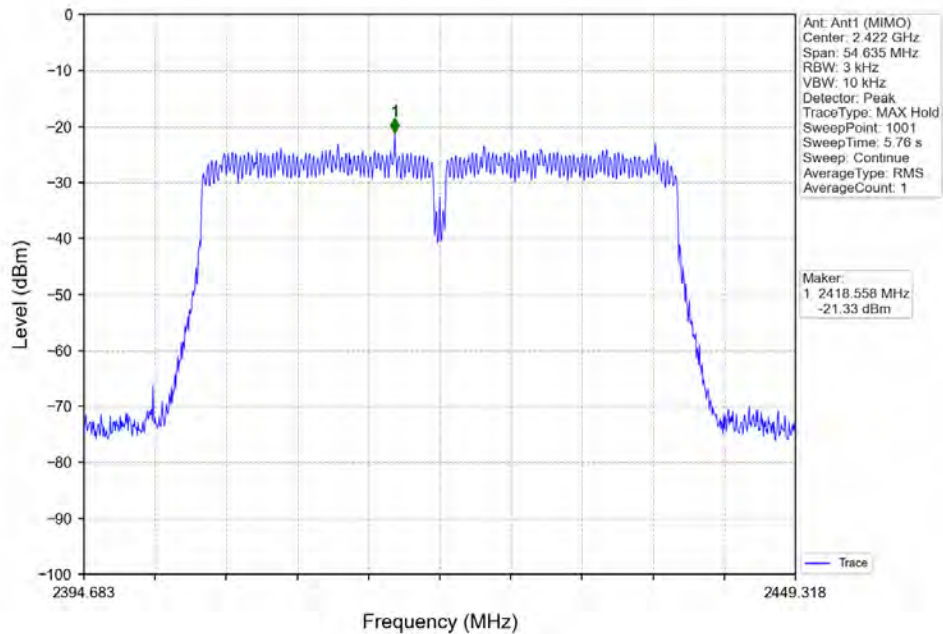
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802.11n(HT20)\_HCH\_2462MHz\_MIMO\_NTNV



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



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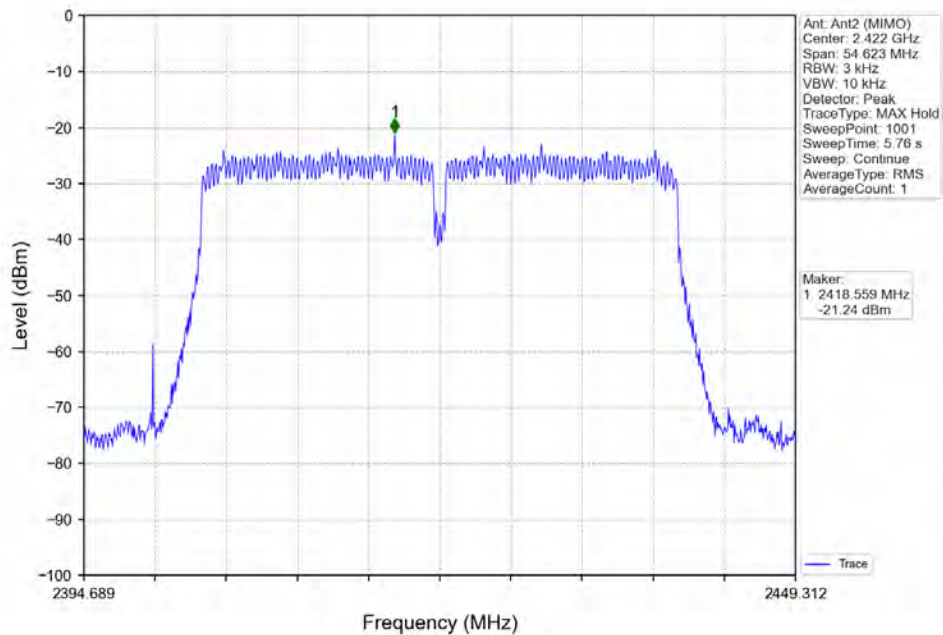
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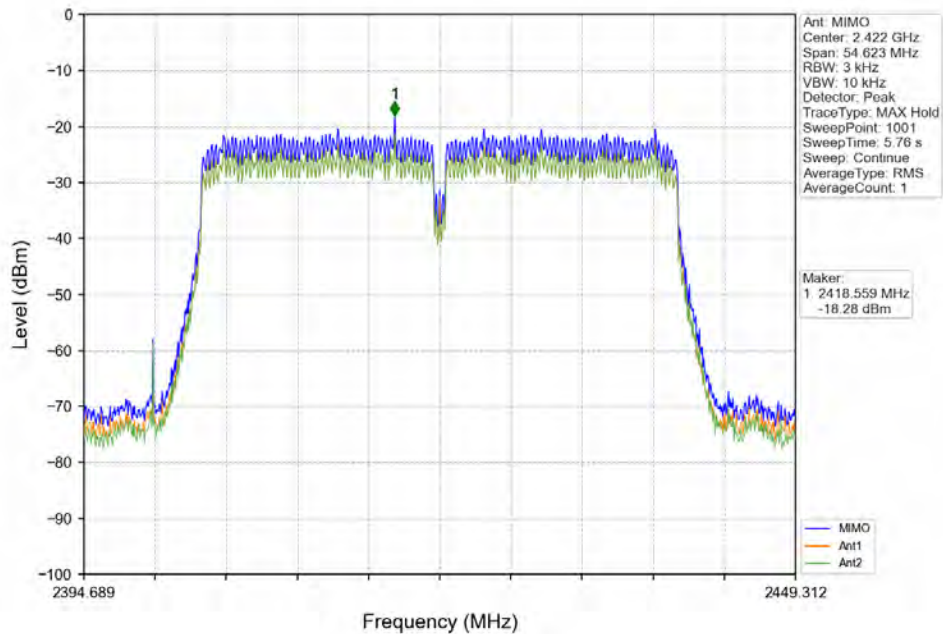
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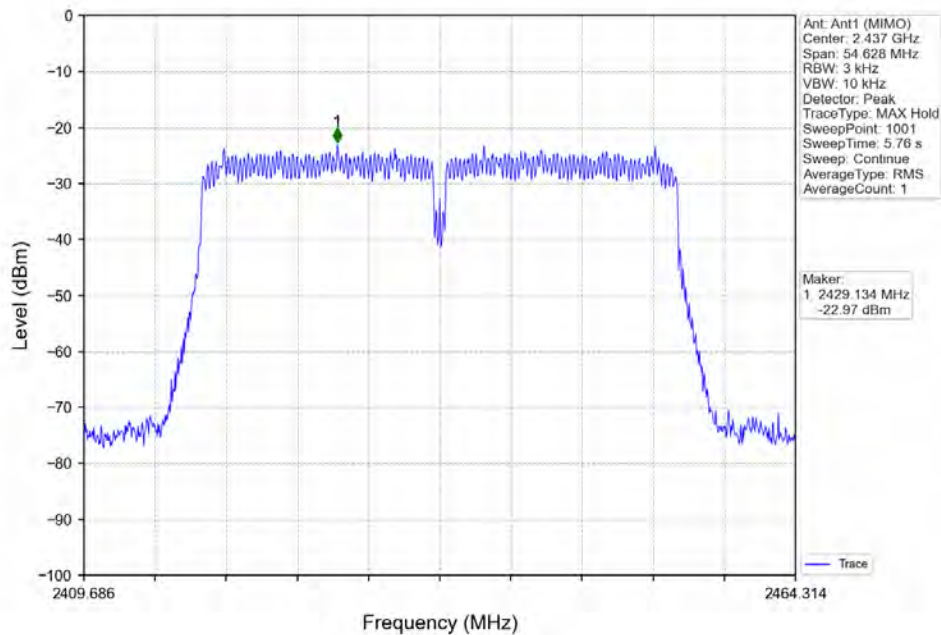
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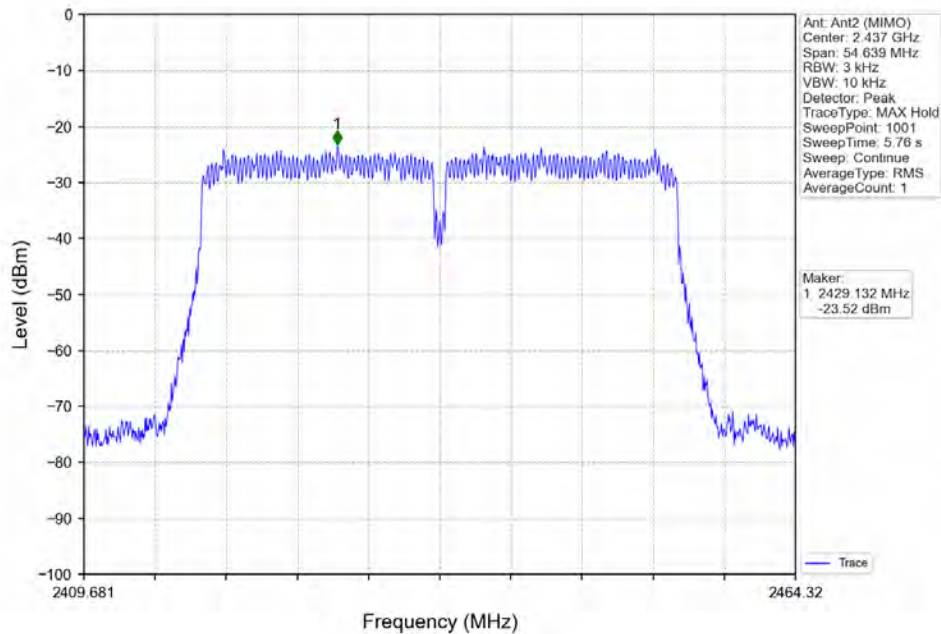
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



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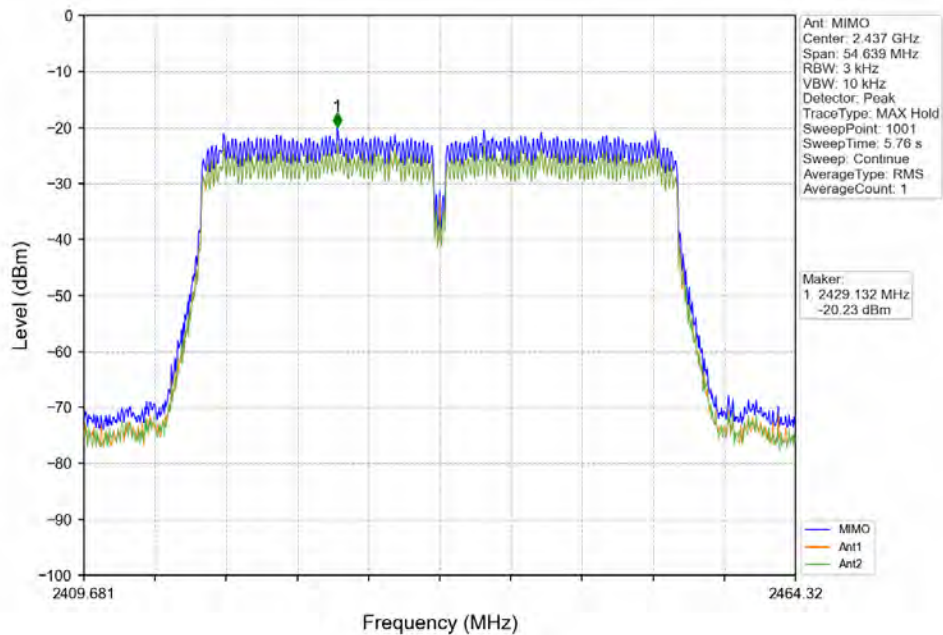
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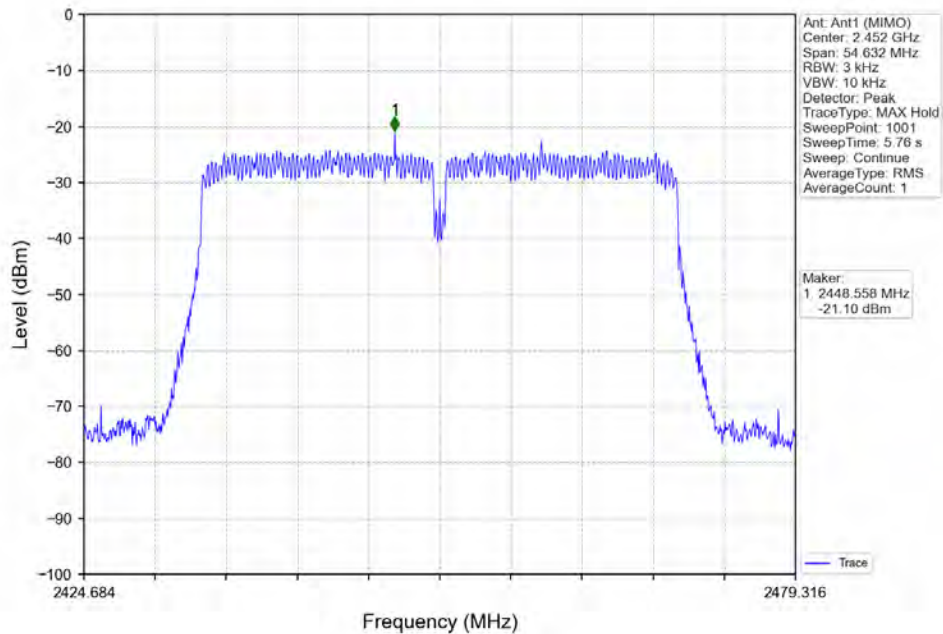
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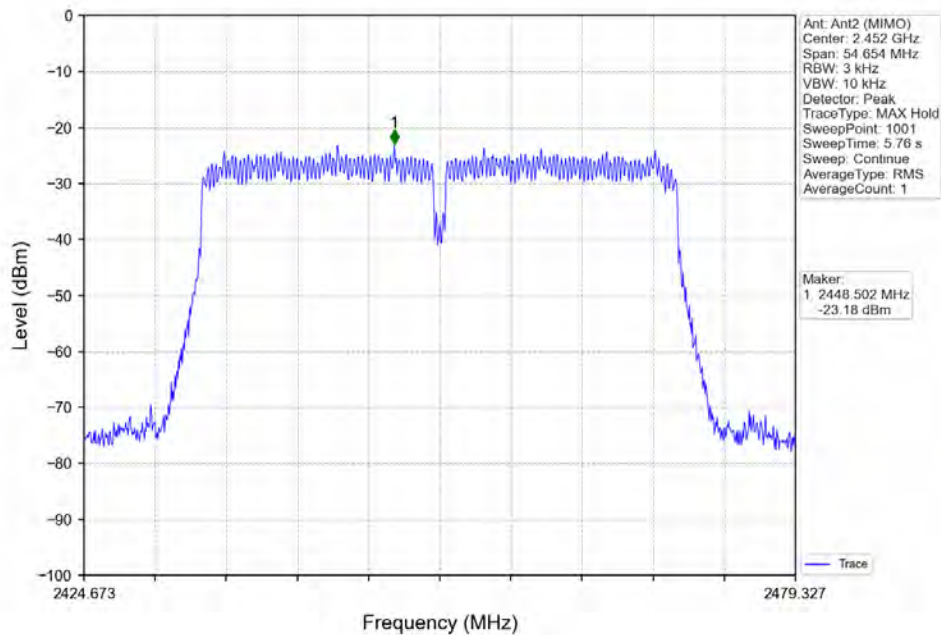
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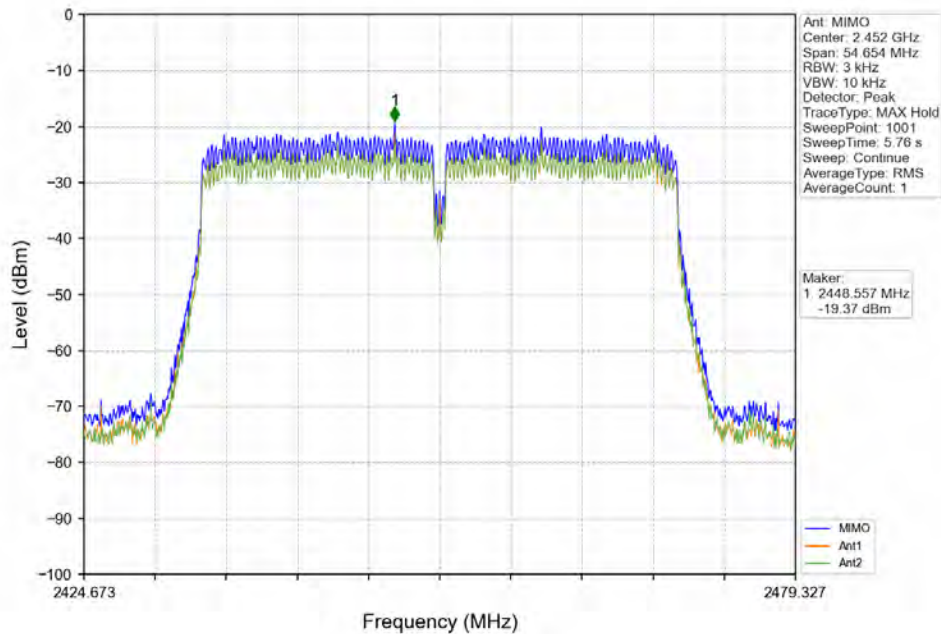
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802.11n(HT40) HCH 2452MHz\_Ant2 (MIMO) NTN



802.11n(HT40) HCH 2452MHz\_MIMO NTN



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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   | 5.22                     |
|                |         |                 | 2   | 4.61                     |
|                |         | 2437            | 1   | 5.04                     |
|                |         |                 | 2   | 4.49                     |
|                |         | 2462            | 1   | 4.95                     |
|                |         |                 | 2   | 4.75                     |
| 802.11g        | SISO    | 2412            | 1   | -4.05                    |
|                |         |                 | 2   | -4.55                    |
|                |         | 2437            | 1   | -4.18                    |
|                |         |                 | 2   | -4.63                    |
|                |         | 2462            | 1   | -4.33                    |
|                |         |                 | 2   | -4.78                    |
| 802.11n (HT20) | MIMO    | 2412            | 1   | -7.21                    |
|                |         |                 | 2   | -7.78                    |
|                |         | 2437            | 1   | -7.19                    |
|                |         |                 | 2   | -7.41                    |
|                |         | 2462            | 1   | -7.42                    |
|                |         |                 | 2   | -7.49                    |
| 802.11n (HT40) | MIMO    | 2422            | 1   | -10.13                   |
|                |         |                 | 2   | -10.40                   |
|                |         | 2437            | 1   | -10.23                   |
|                |         |                 | 2   | -10.39                   |
|                |         | 2452            | 1   | -10.36                   |
|                |         |                 | 2   | -10.67                   |

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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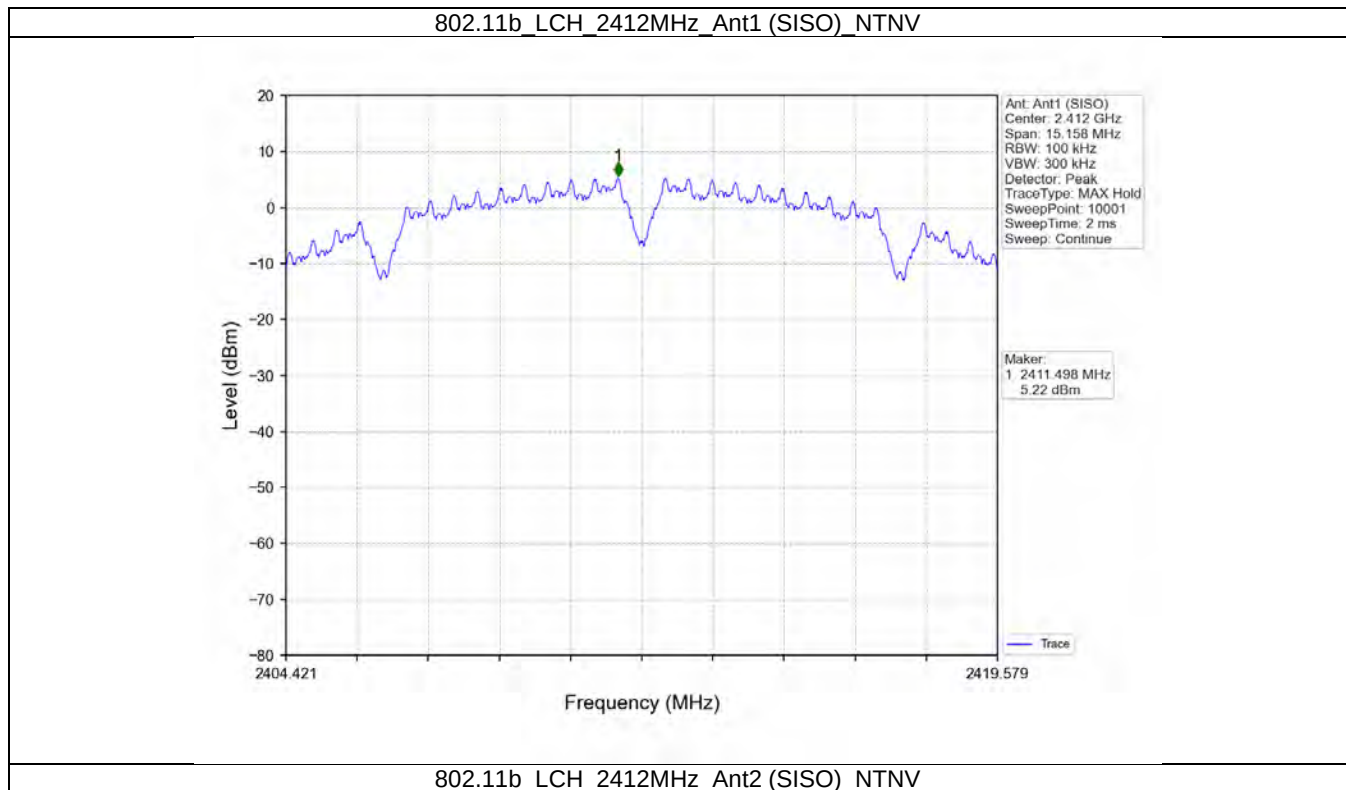
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## 5.1.2 Test Graph



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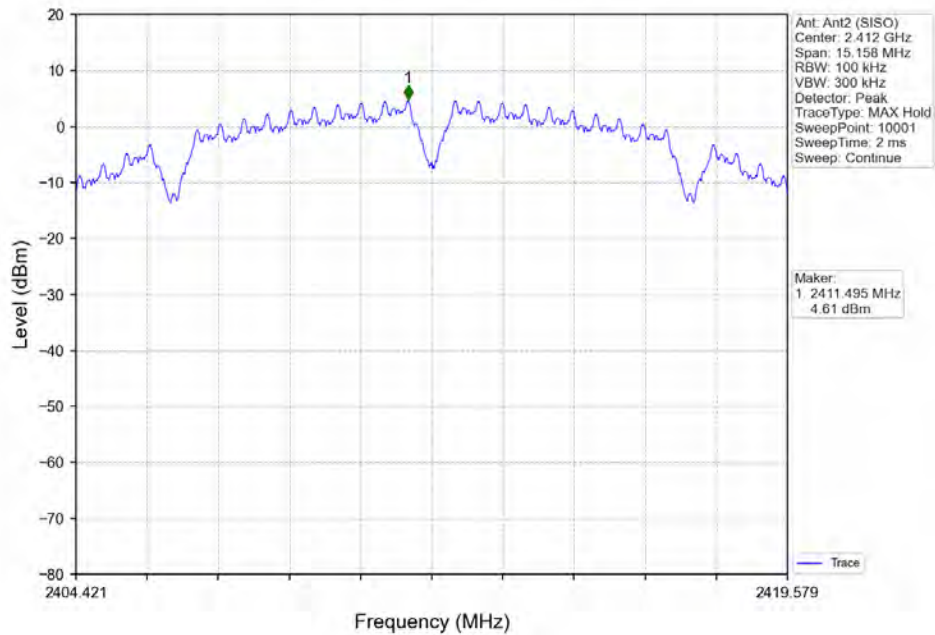
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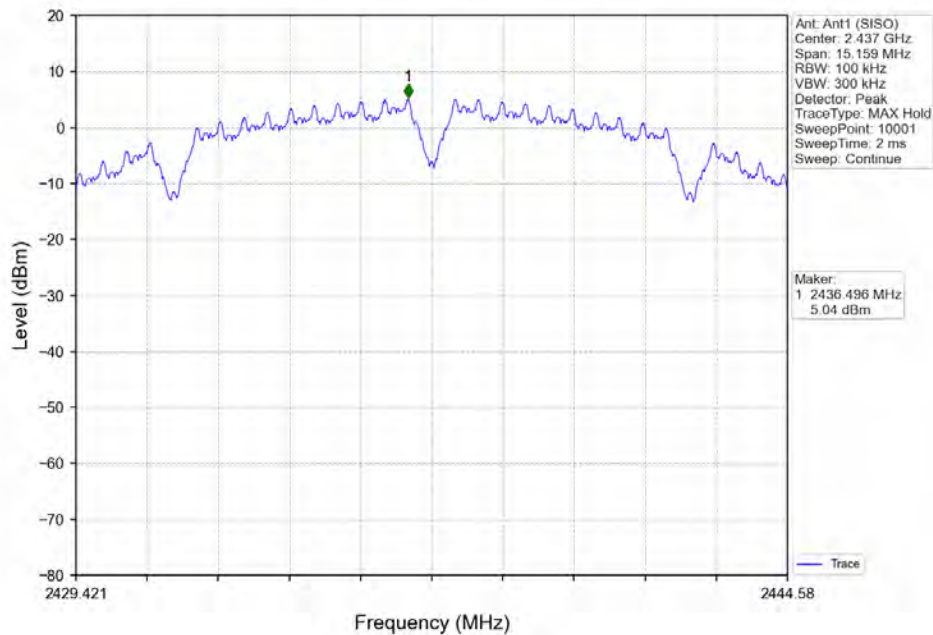
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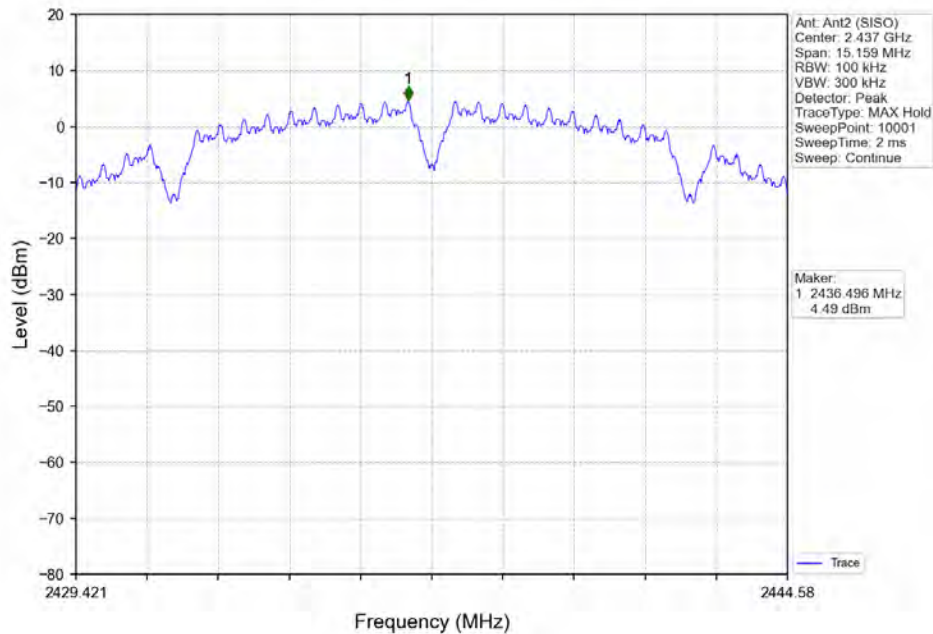
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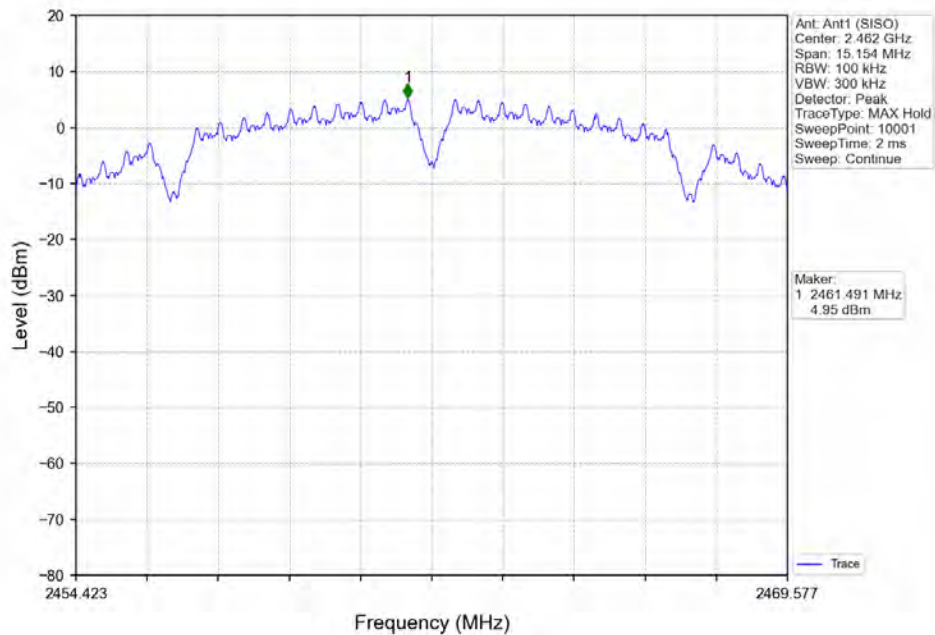
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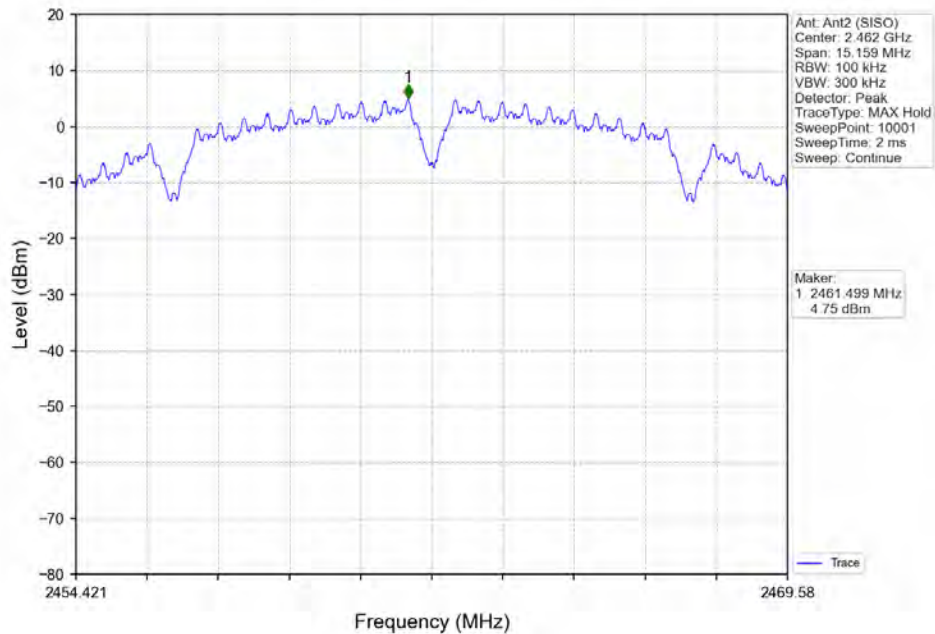
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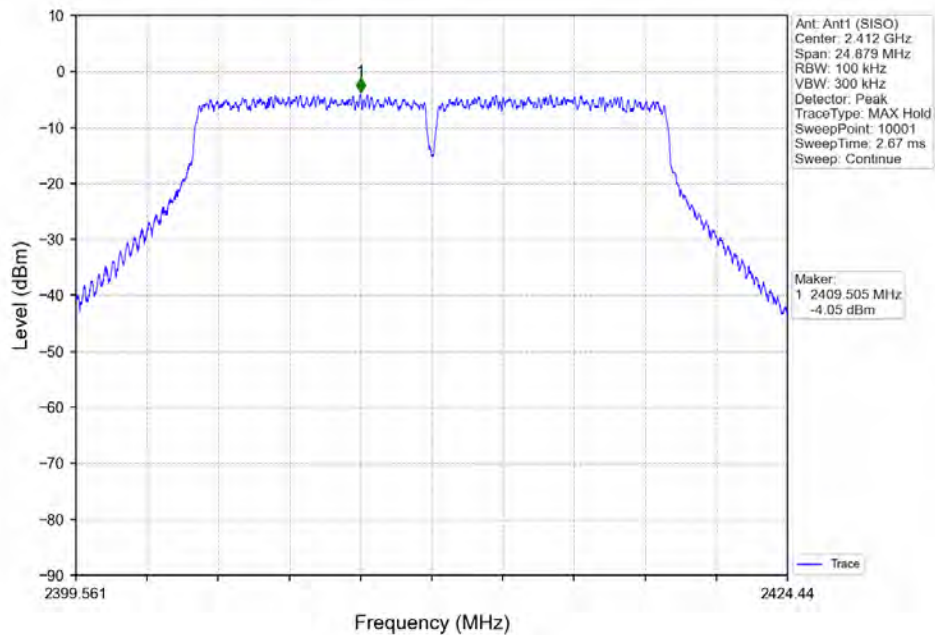
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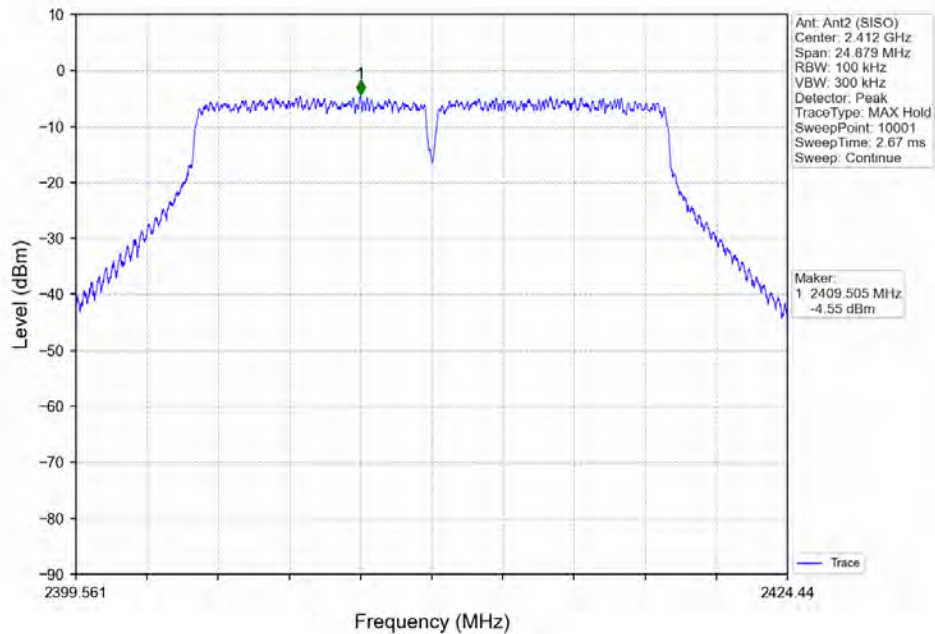
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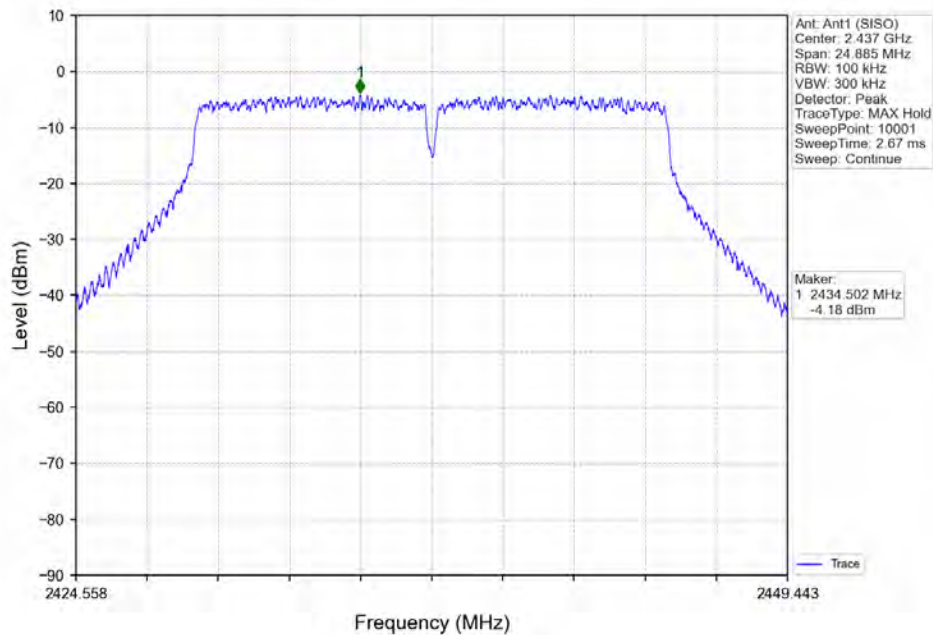
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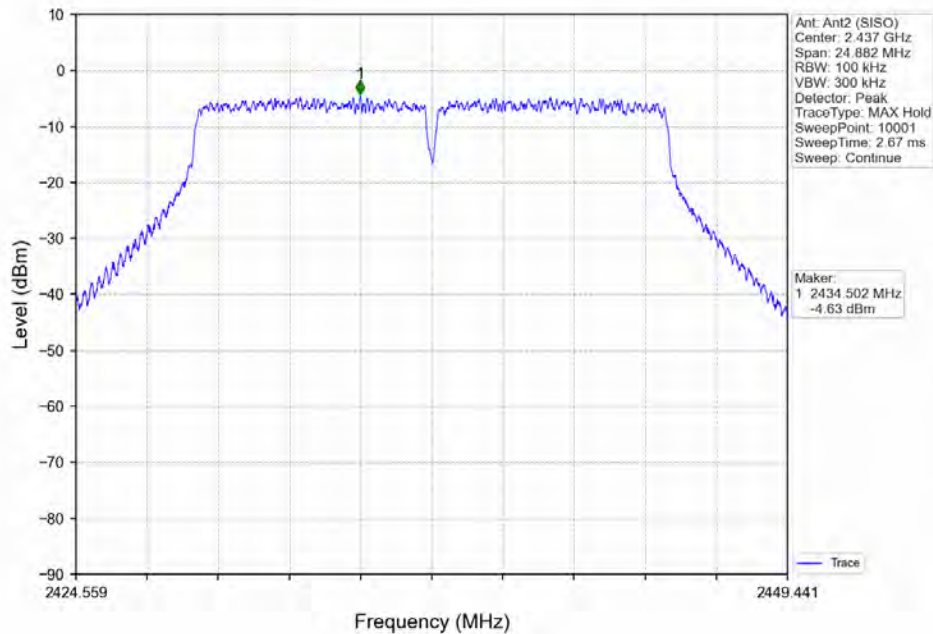
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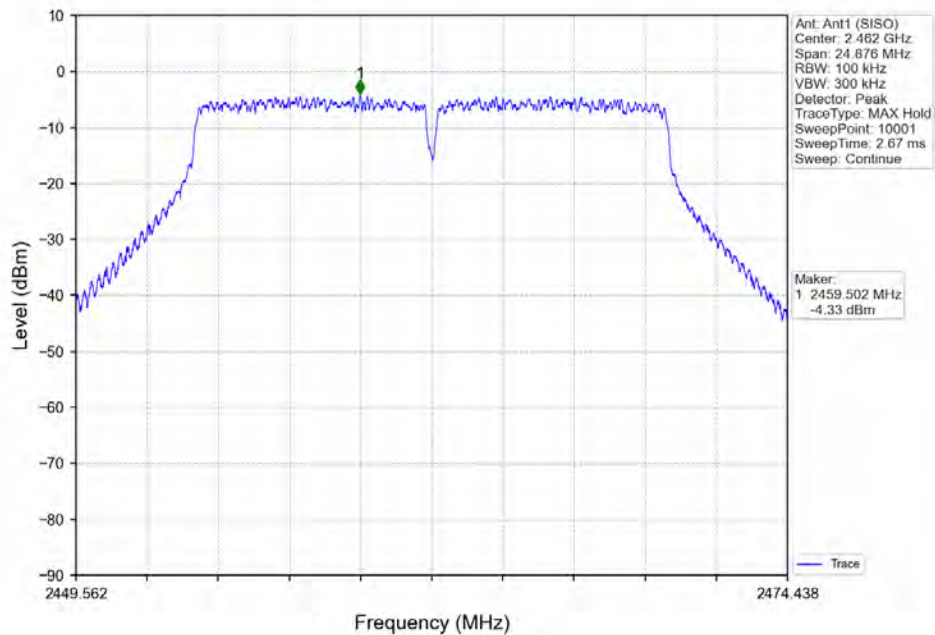
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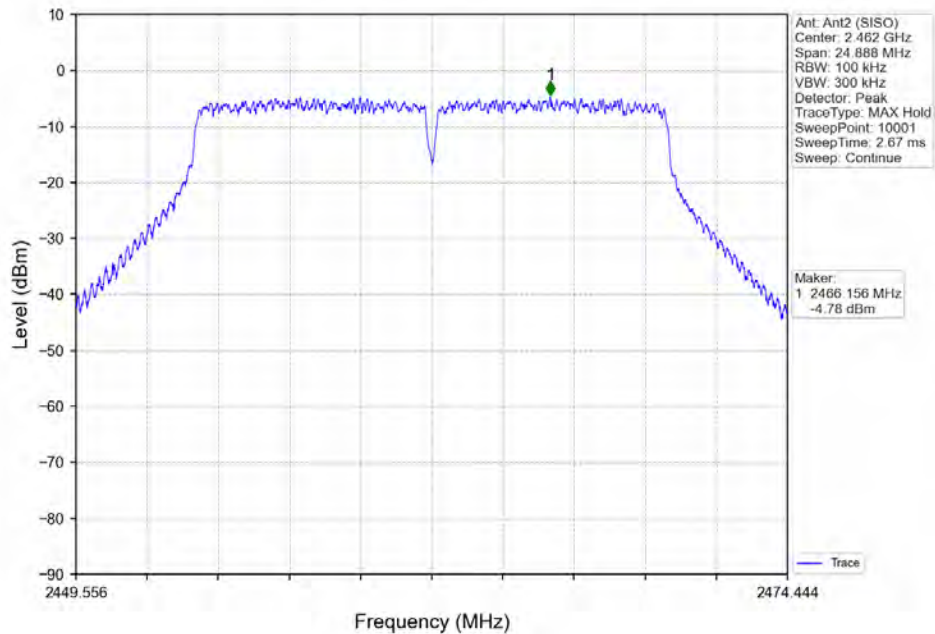
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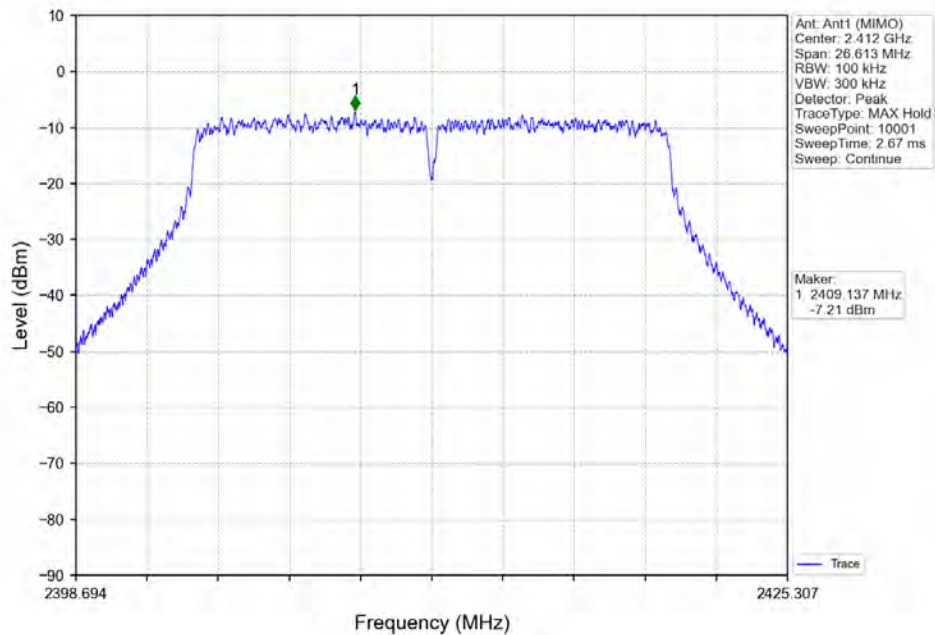
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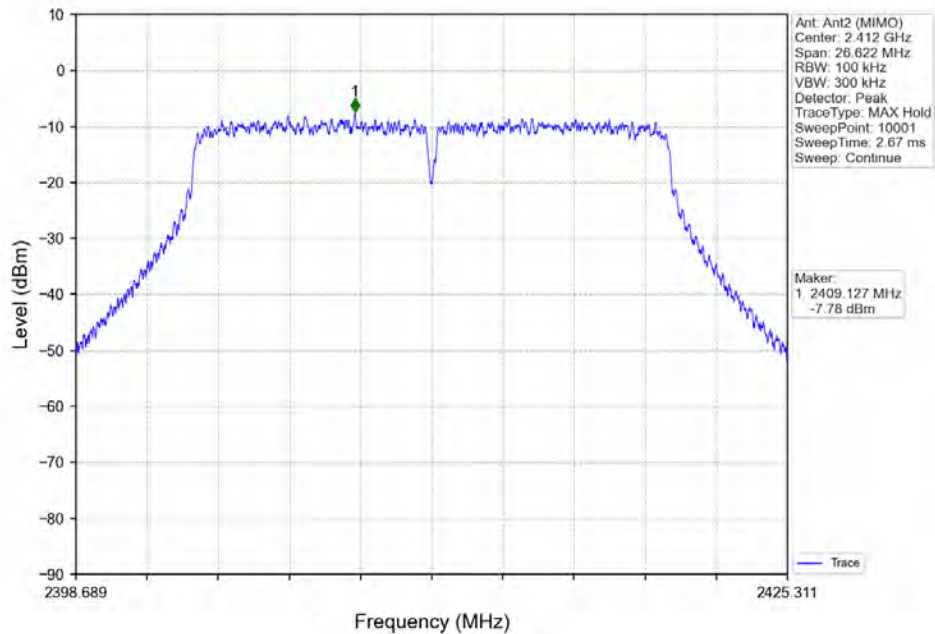
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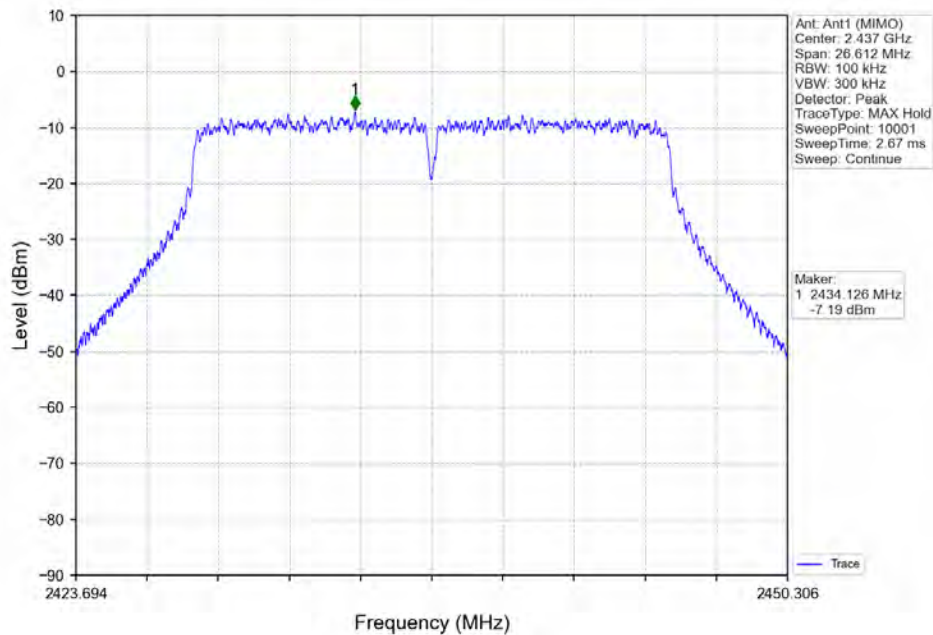
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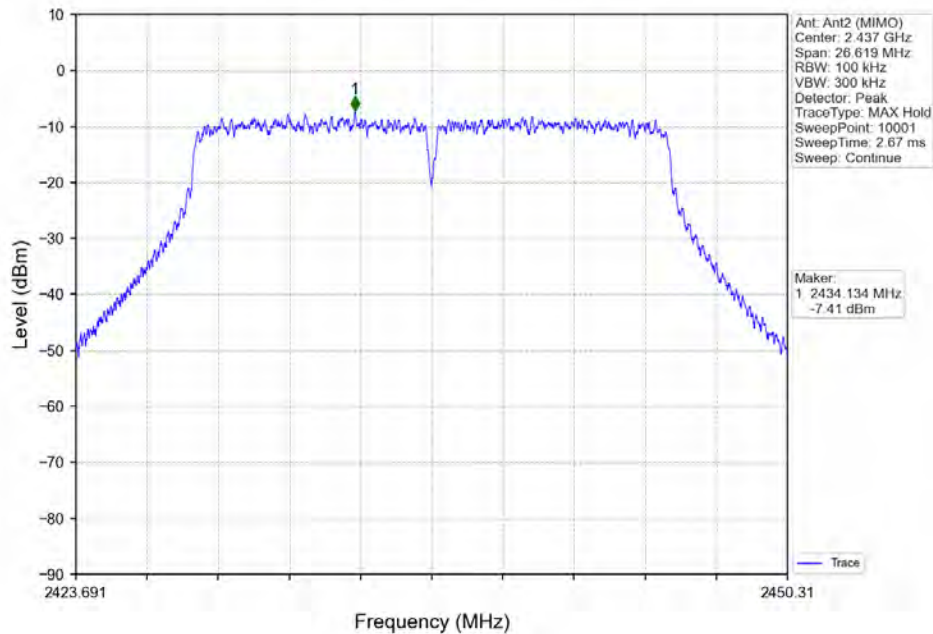
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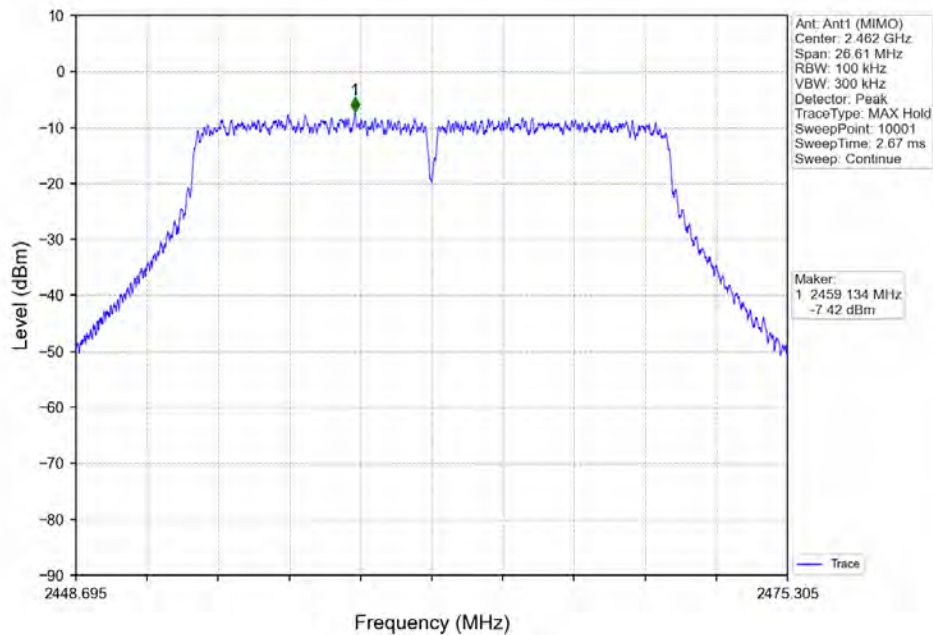
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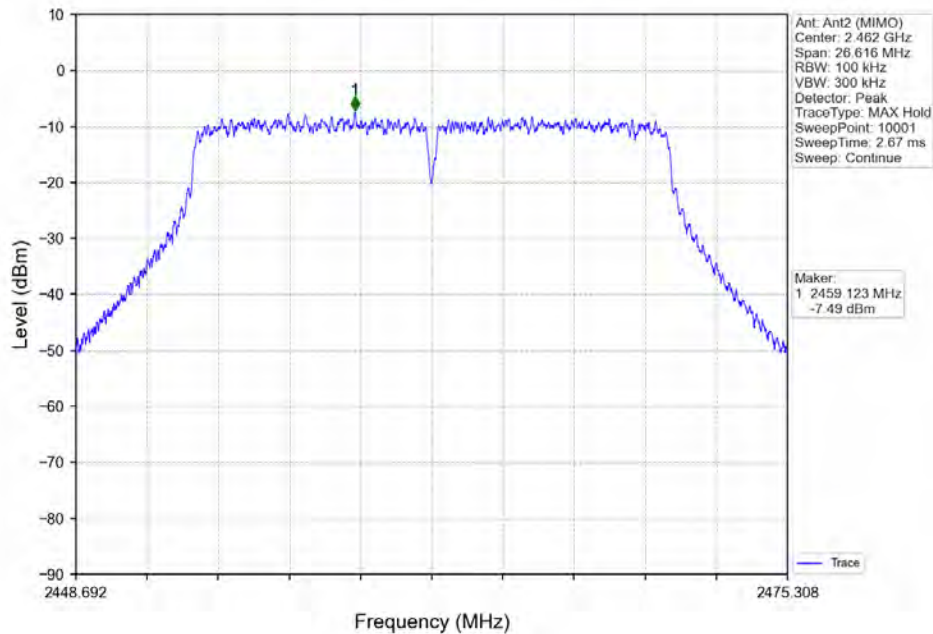
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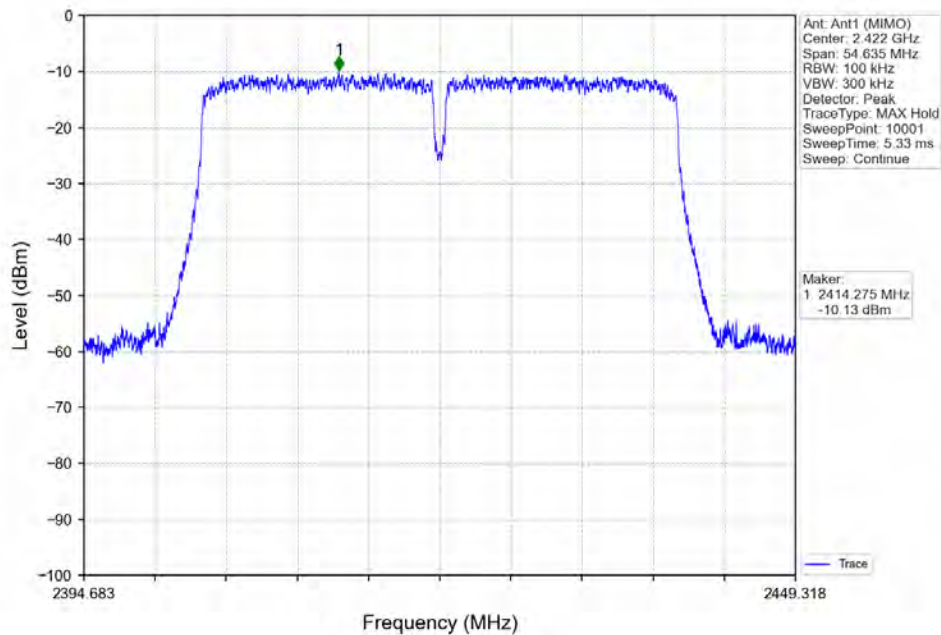
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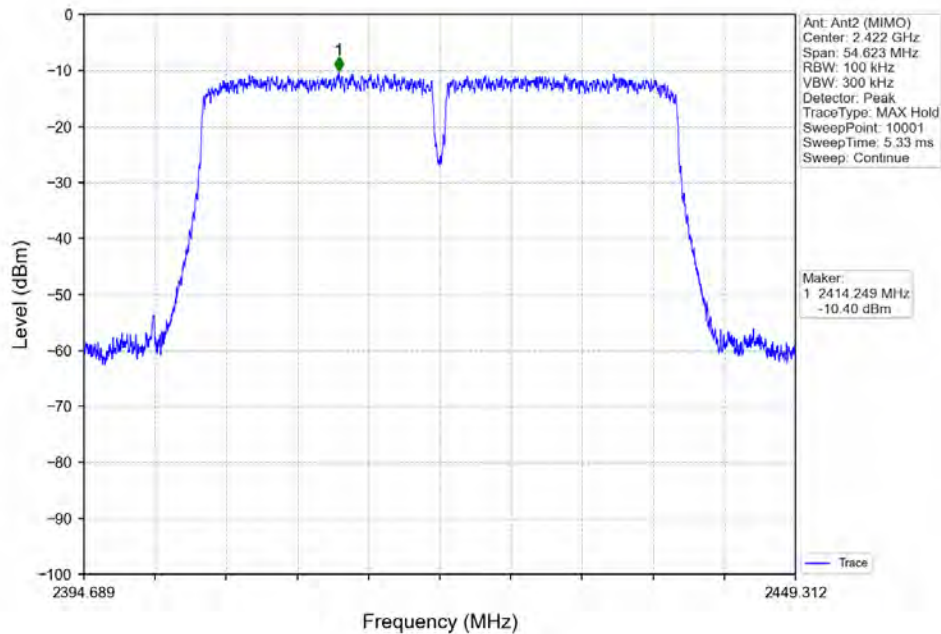
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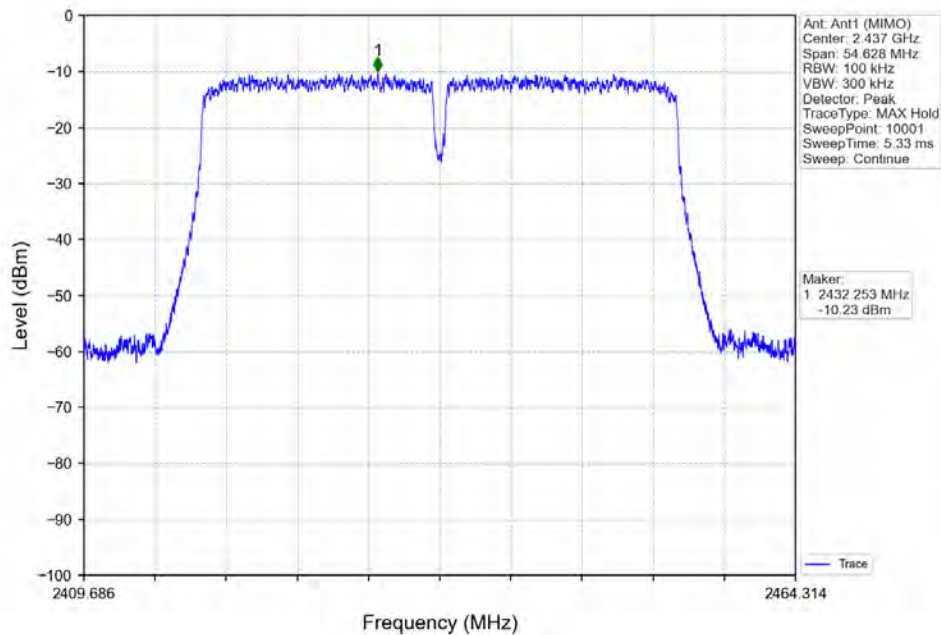
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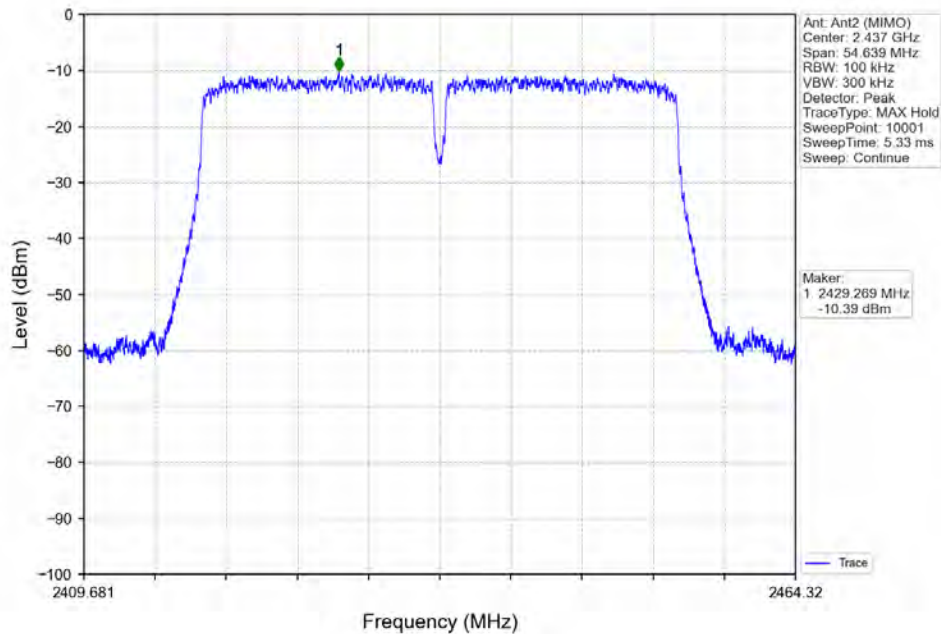
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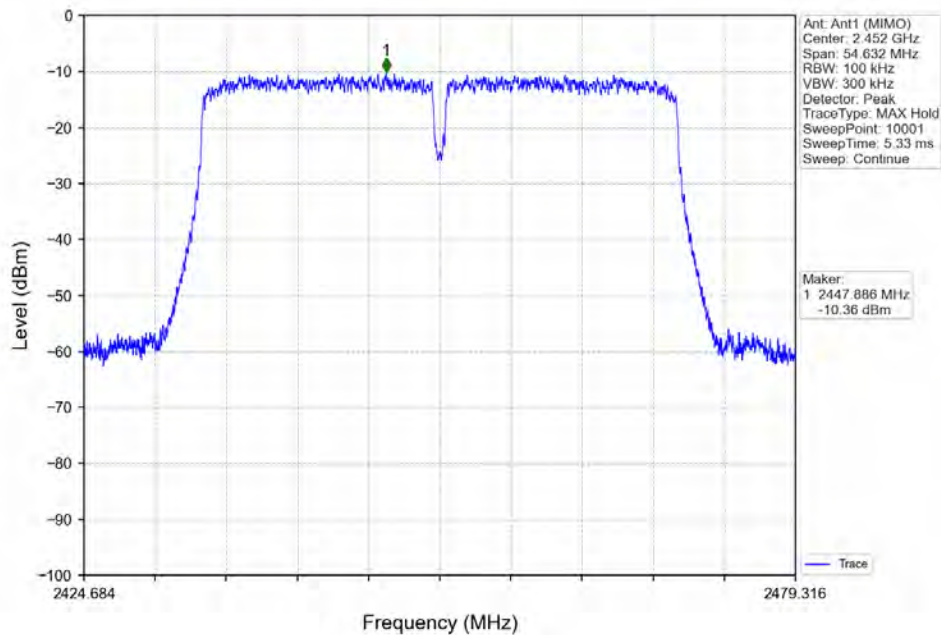
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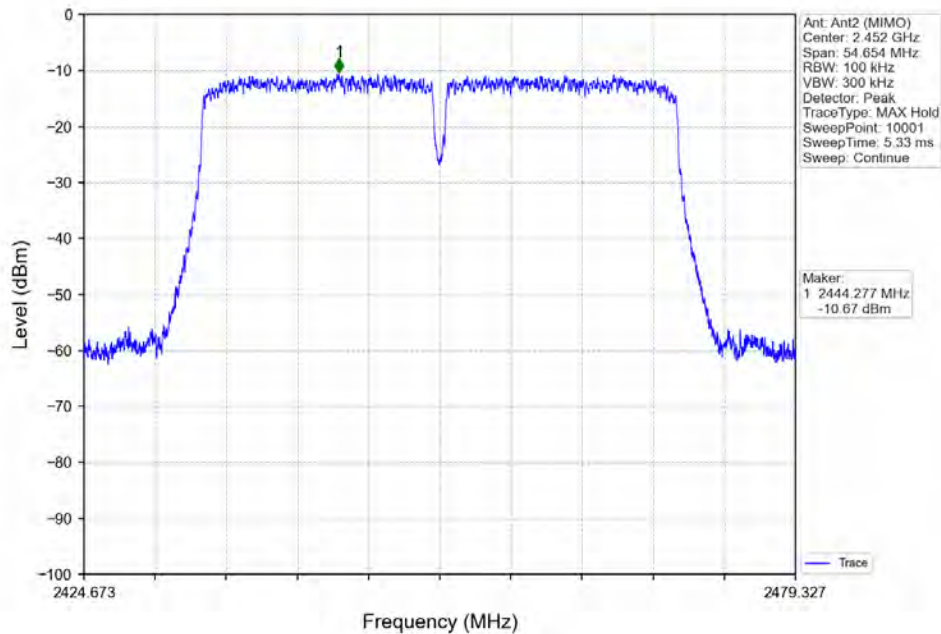
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## 5.2 CSE

## 5.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b        | SISO    | 2412            | 1   | 5.22                     | -14.78      | Pass    |
|                |         |                 | 2   | 4.75                     | -15.25      | Pass    |
|                |         | 2437            | 1   | 5.22                     | -14.78      | Pass    |
|                |         |                 | 2   | 4.75                     | -15.25      | Pass    |
|                |         | 2462            | 1   | 5.22                     | -14.78      | Pass    |
|                |         |                 | 2   | 4.75                     | -15.25      | Pass    |
| 802.11g        | SISO    | 2412            | 1   | -4.05                    | -24.05      | Pass    |
|                |         |                 | 2   | -4.55                    | -24.55      | Pass    |
|                |         | 2437            | 1   | -4.05                    | -24.05      | Pass    |
|                |         |                 | 2   | -4.55                    | -24.55      | Pass    |
|                |         | 2462            | 1   | -4.05                    | -24.05      | Pass    |
|                |         |                 | 2   | -4.55                    | -24.55      | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | 1   | -7.19                    | -27.19      | Pass    |
|                |         |                 | 2   | -7.41                    | -27.41      | Pass    |
|                |         | 2437            | 1   | -7.19                    | -27.19      | Pass    |
|                |         |                 | 2   | -7.41                    | -27.41      | Pass    |
|                |         | 2462            | 1   | -7.19                    | -27.19      | Pass    |
|                |         |                 | 2   | -7.41                    | -27.41      | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | 1   | -10.13                   | -30.13      | Pass    |
|                |         |                 | 2   | -10.39                   | -30.39      | Pass    |
|                |         | 2437            | 1   | -10.13                   | -30.13      | Pass    |
|                |         |                 | 2   | -10.39                   | -30.39      | Pass    |
|                |         | 2452            | 1   | -10.13                   | -30.13      | Pass    |
|                |         |                 | 2   | -10.39                   | -30.39      | 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.



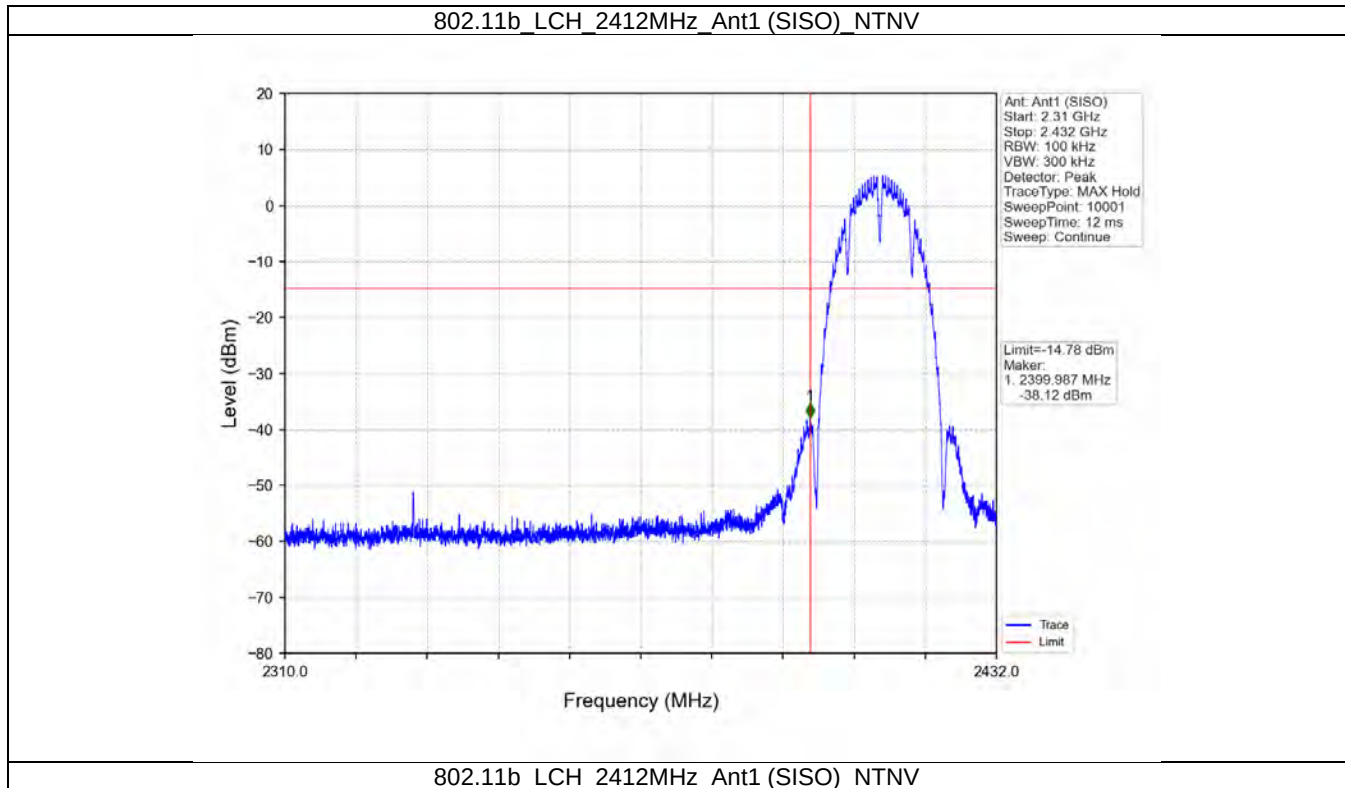
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## 5.2.2 Test Graph



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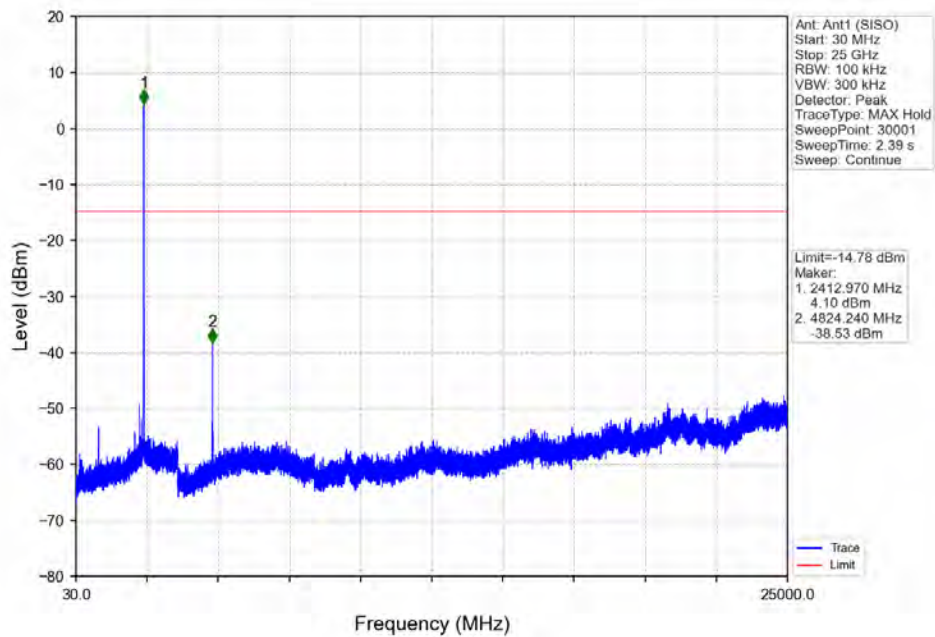
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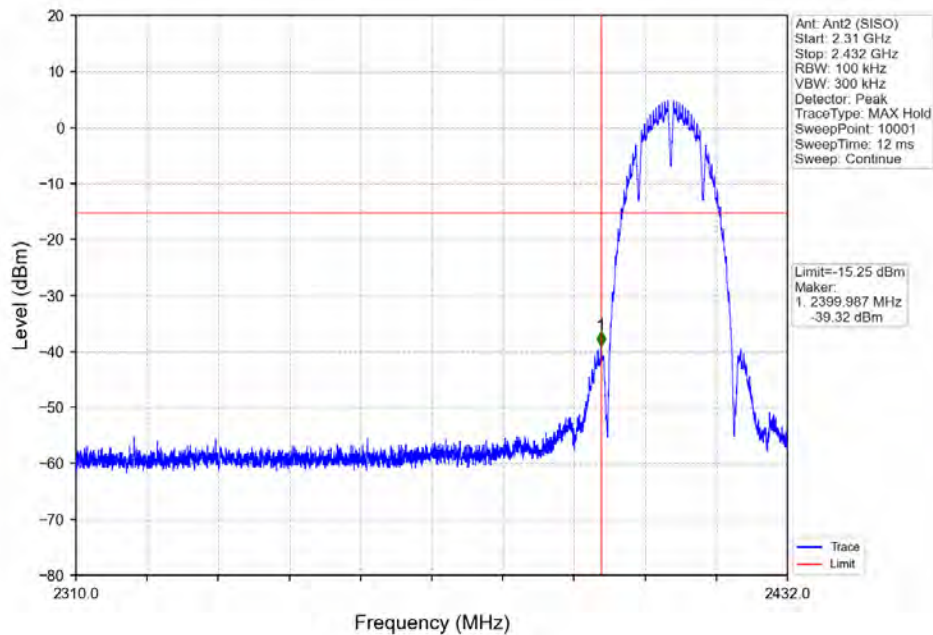
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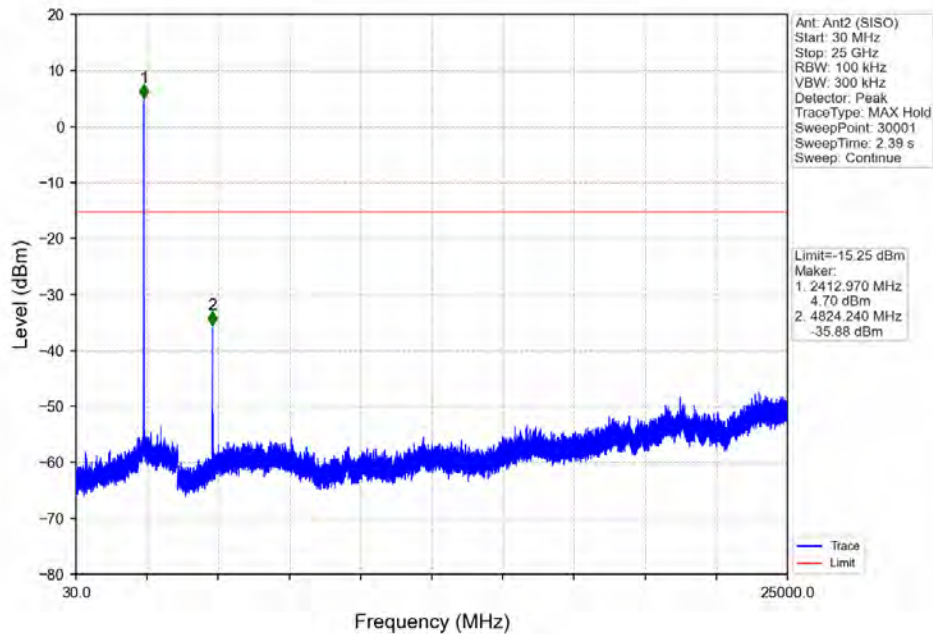
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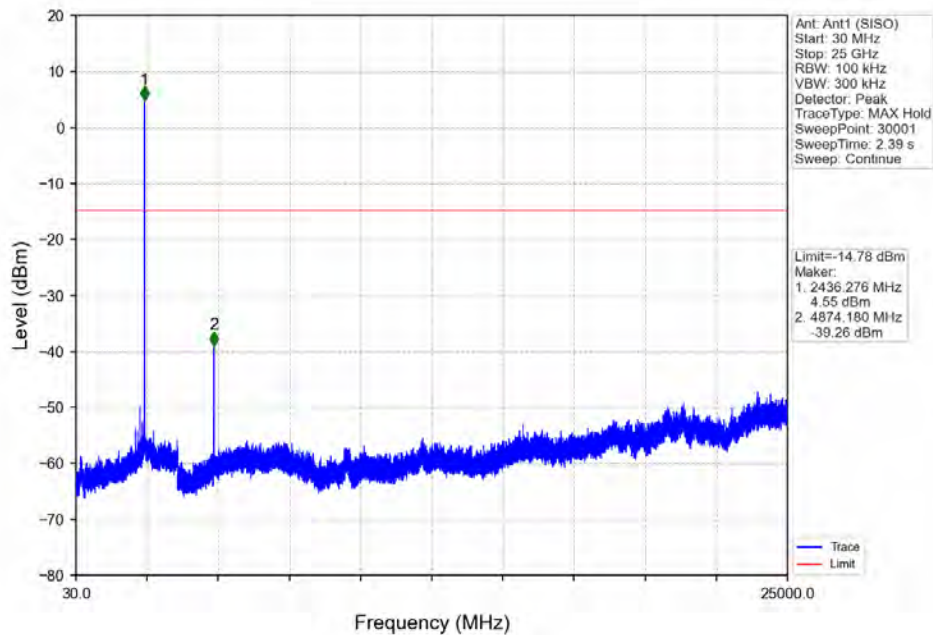
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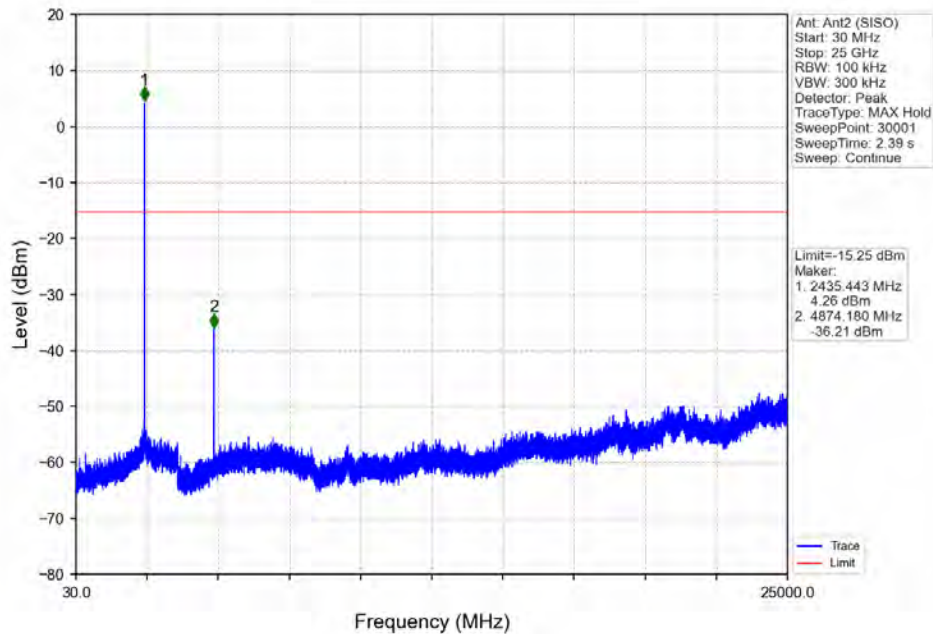
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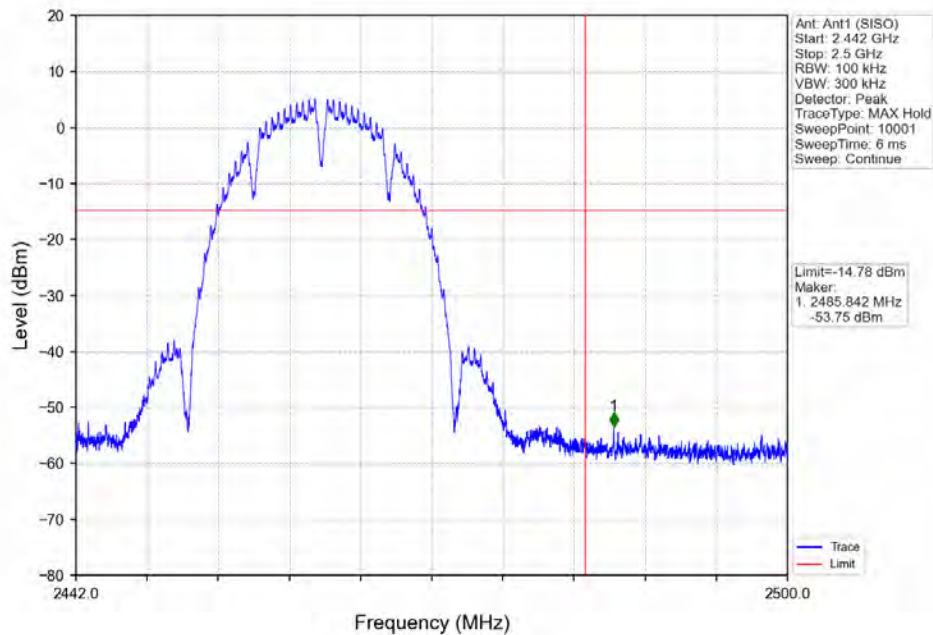
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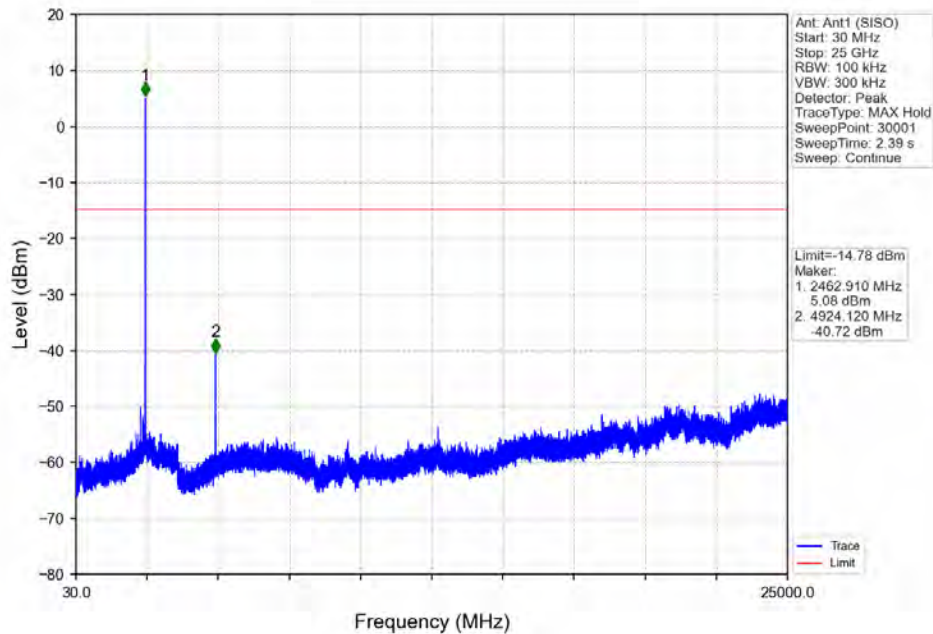
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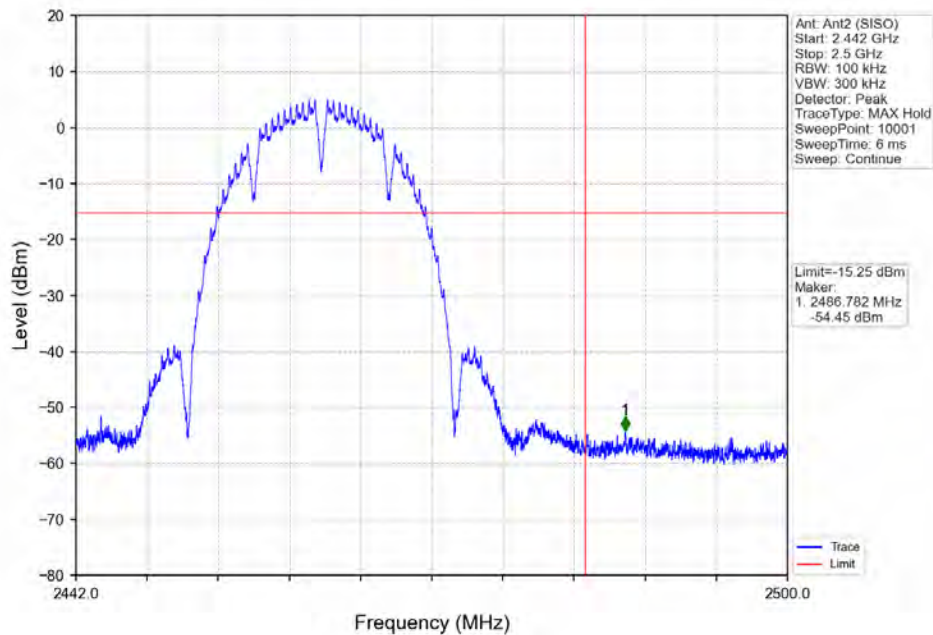
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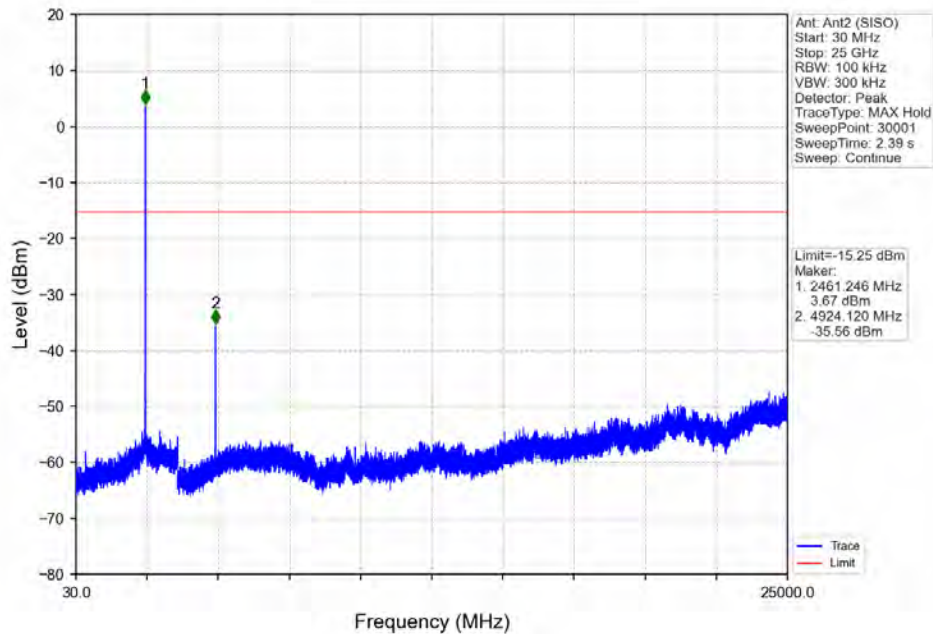
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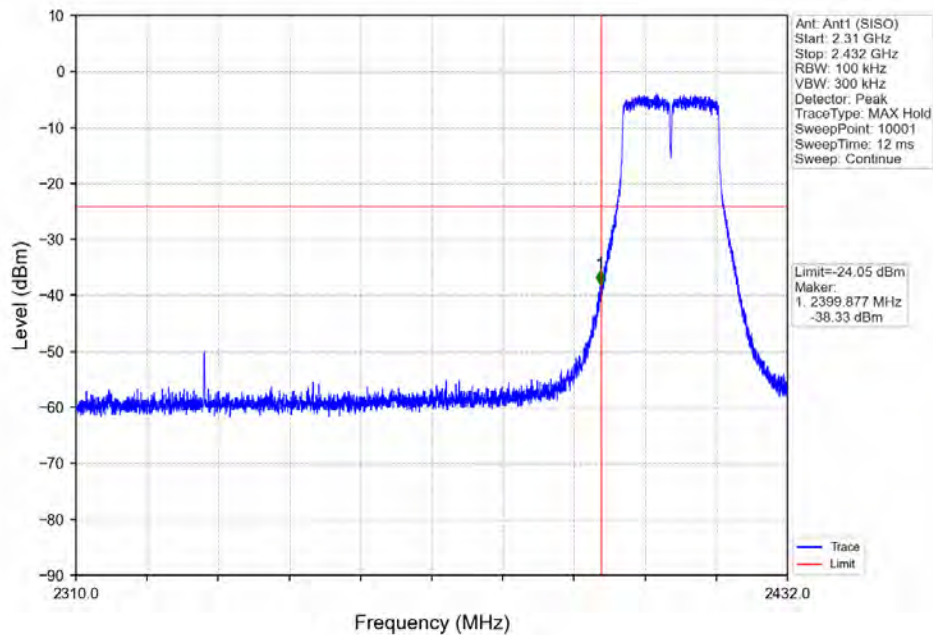
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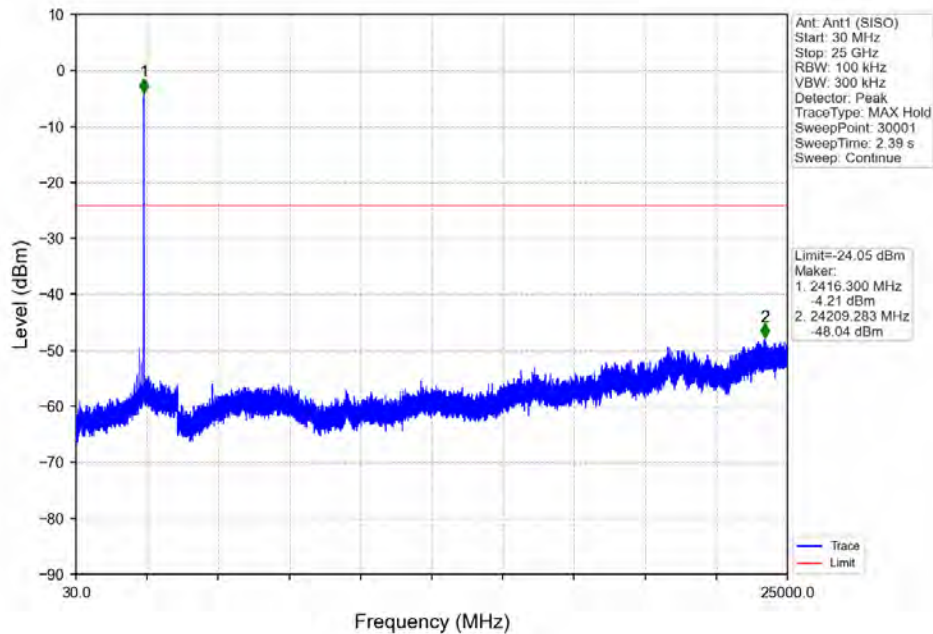
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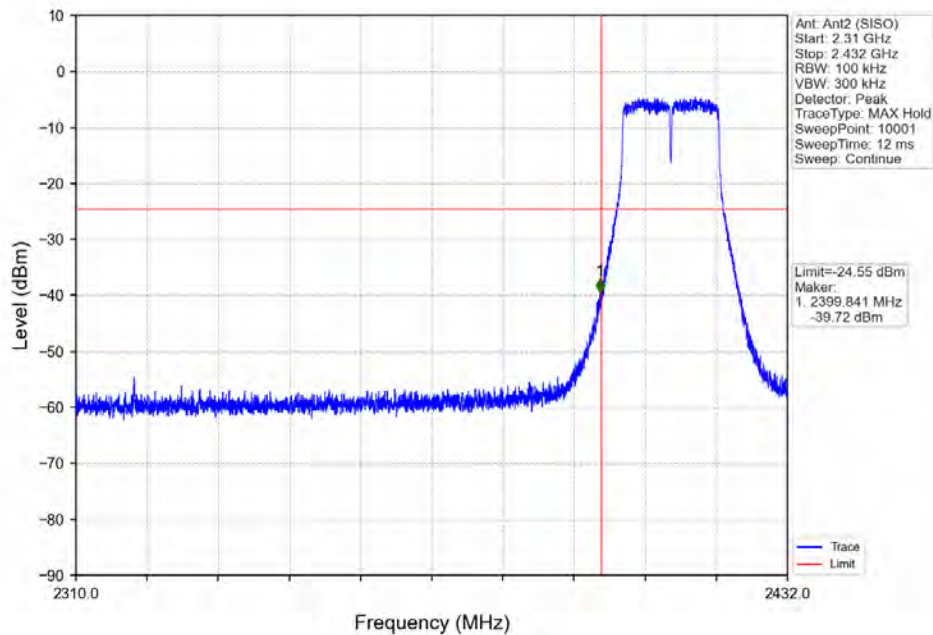
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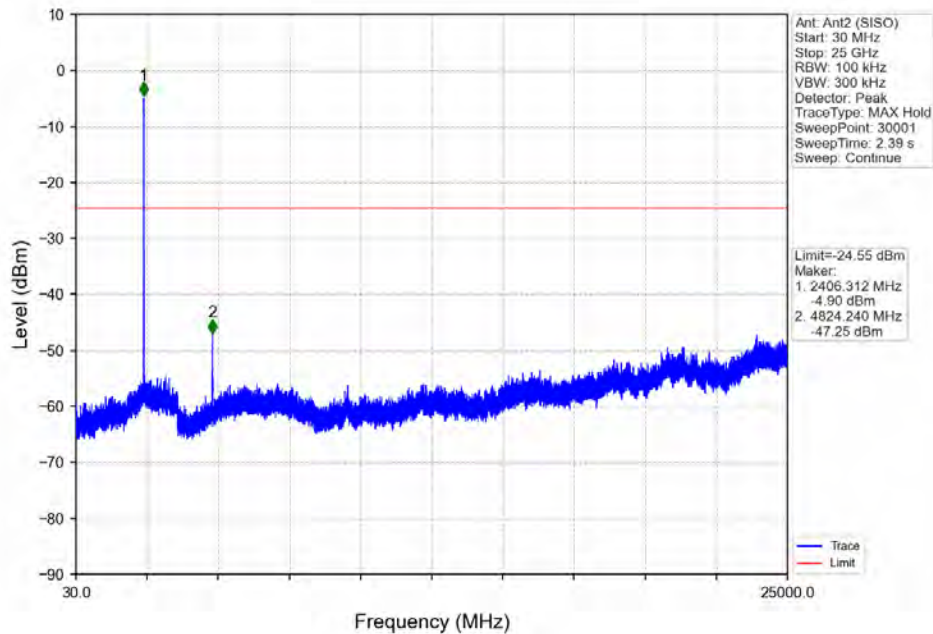
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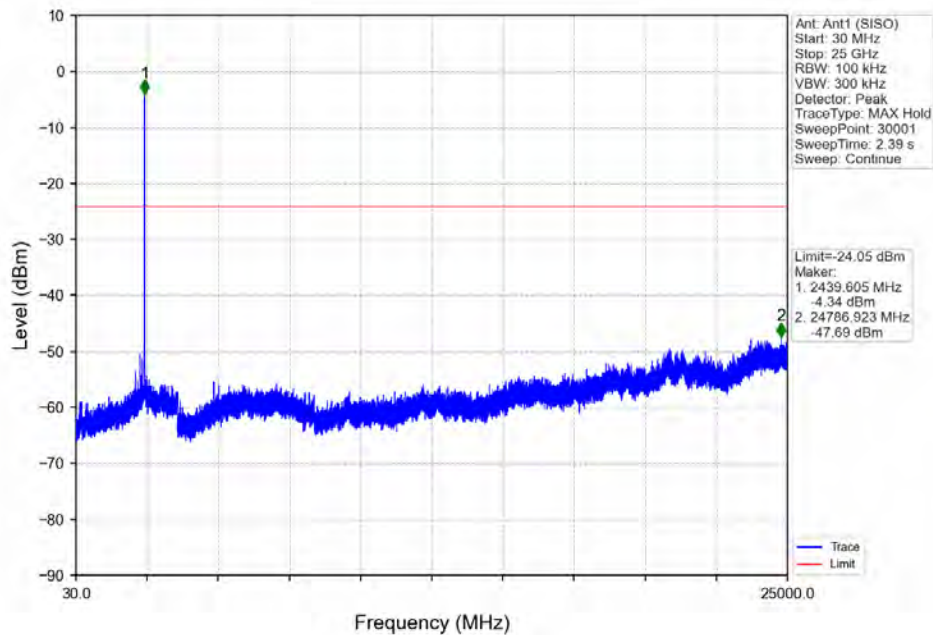
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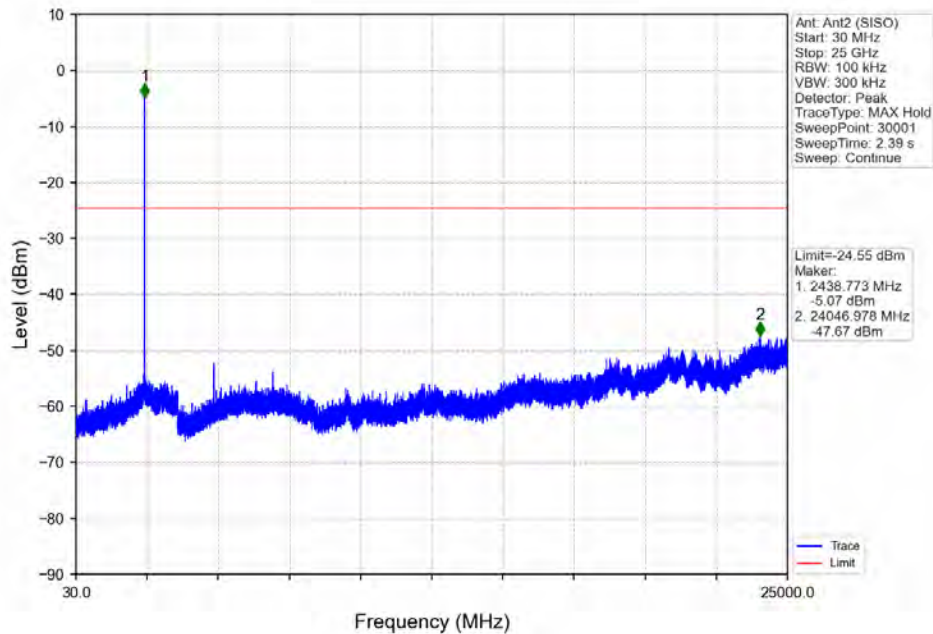
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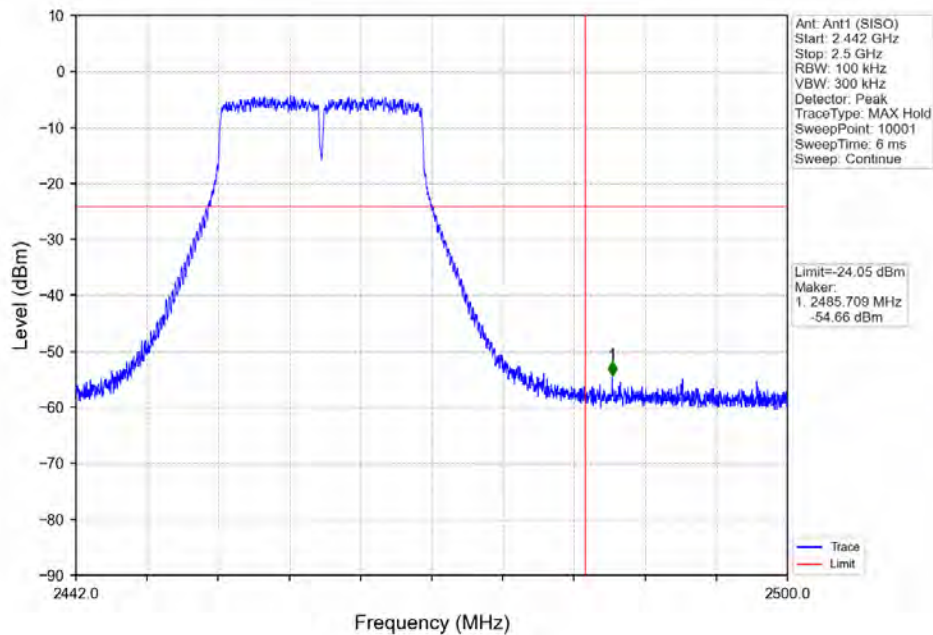
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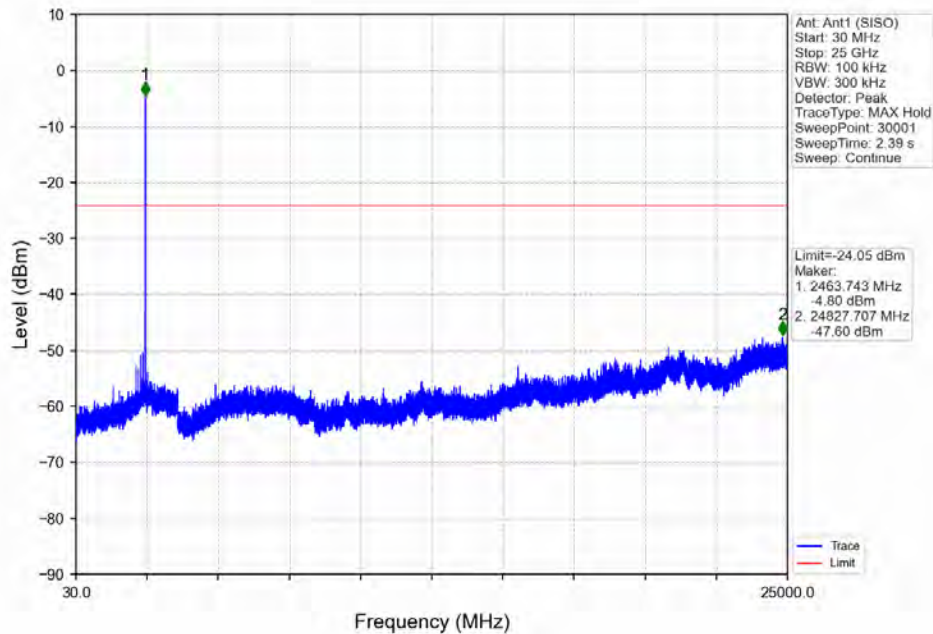
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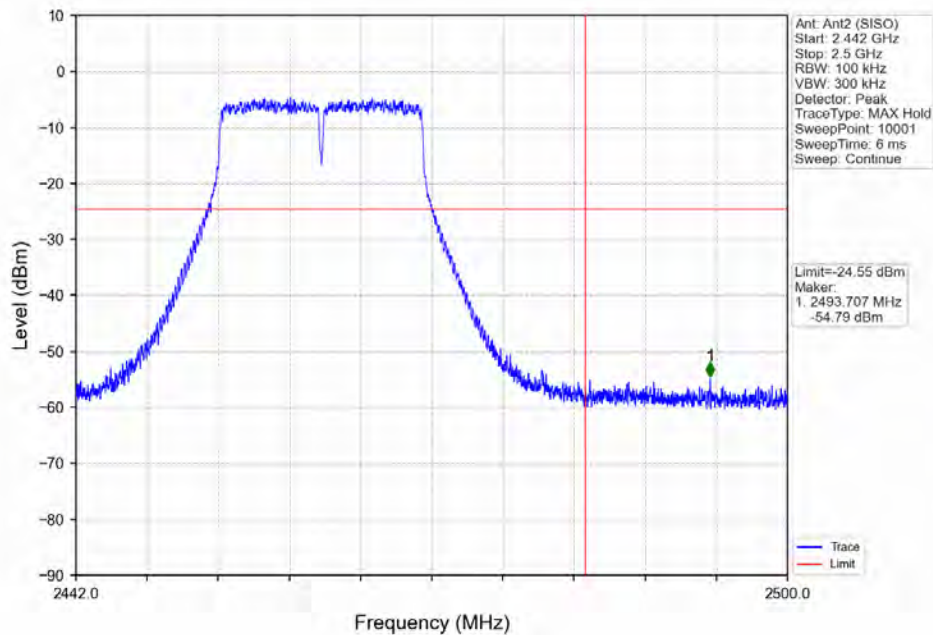
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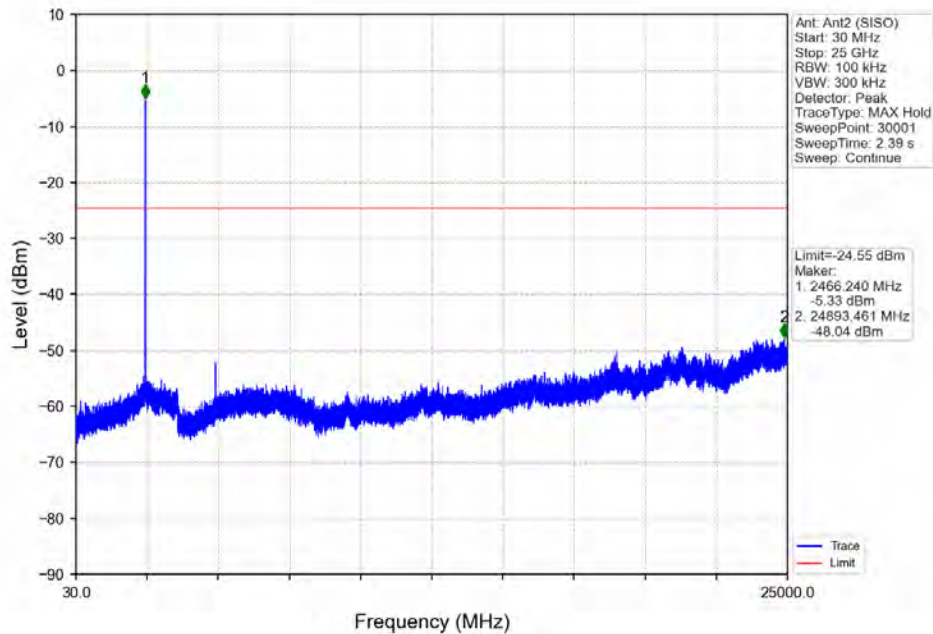
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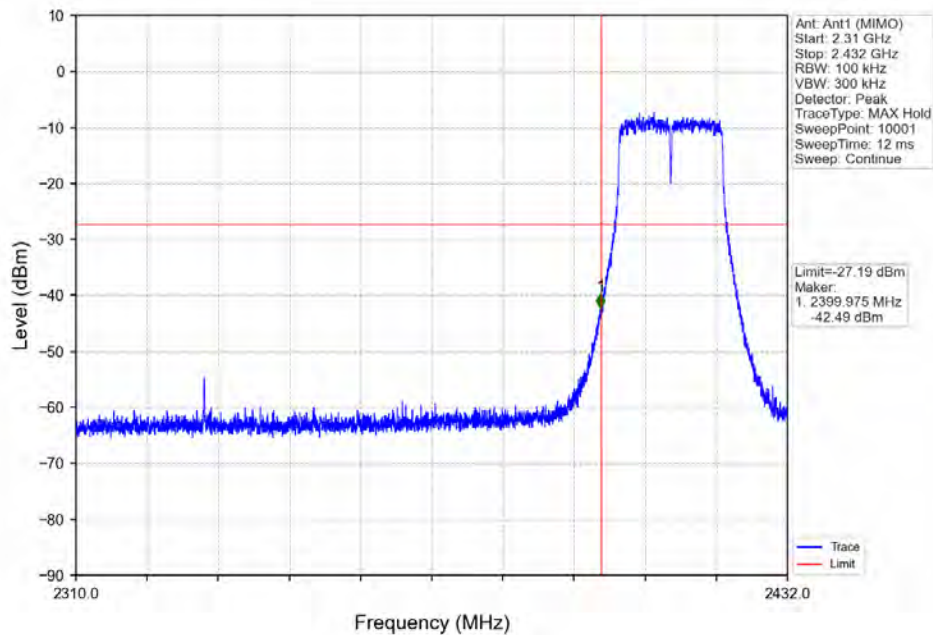
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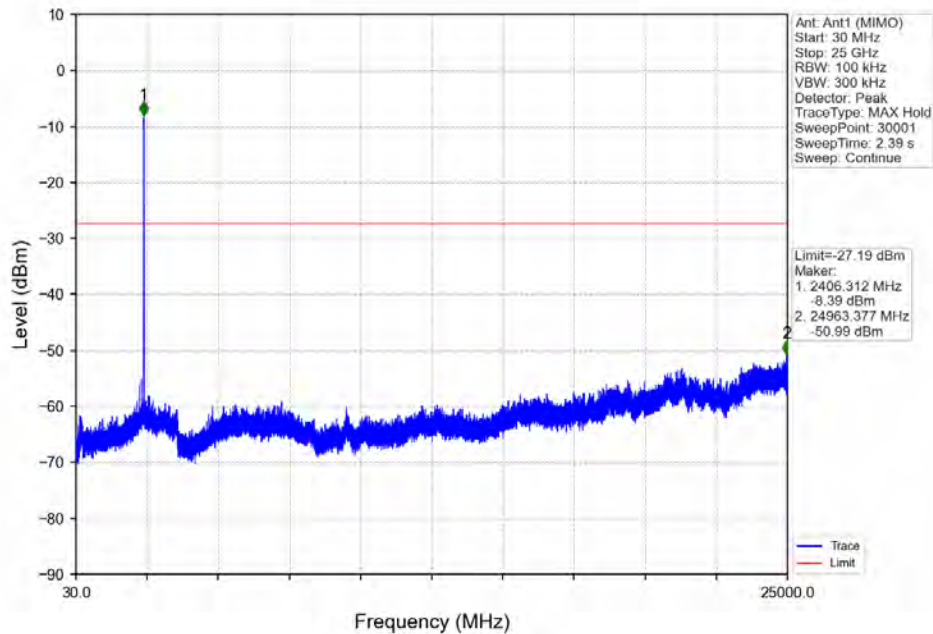
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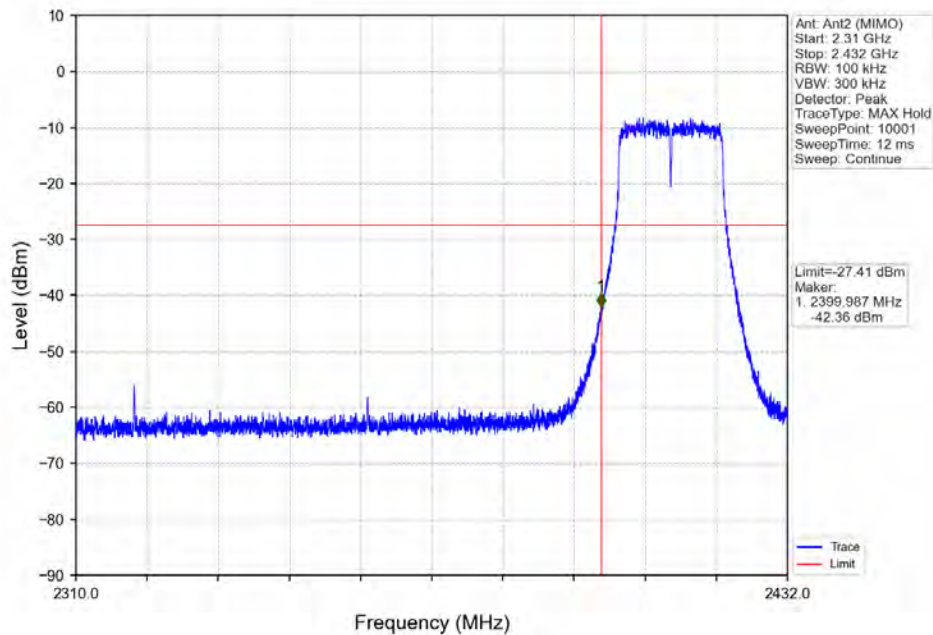
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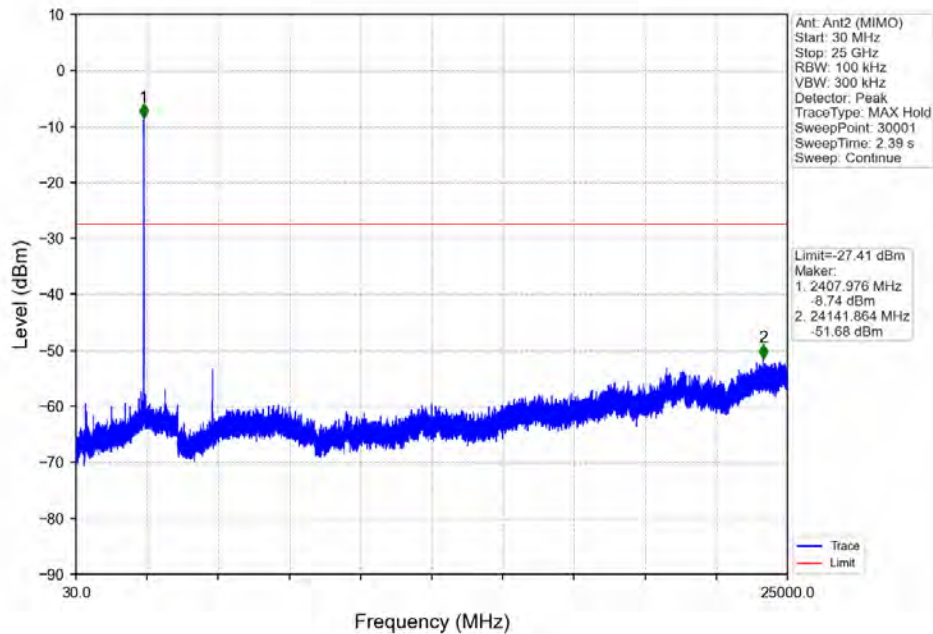
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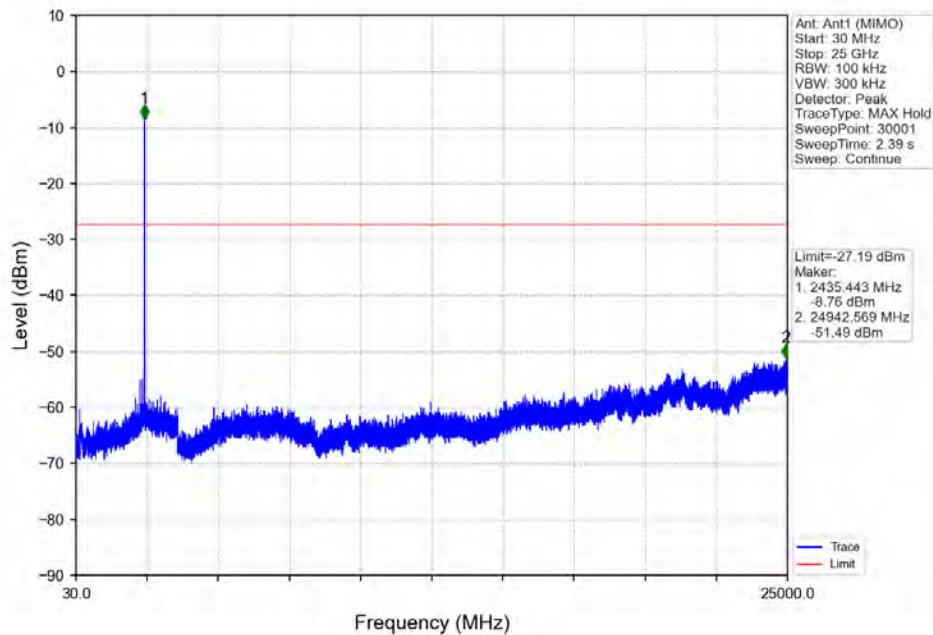
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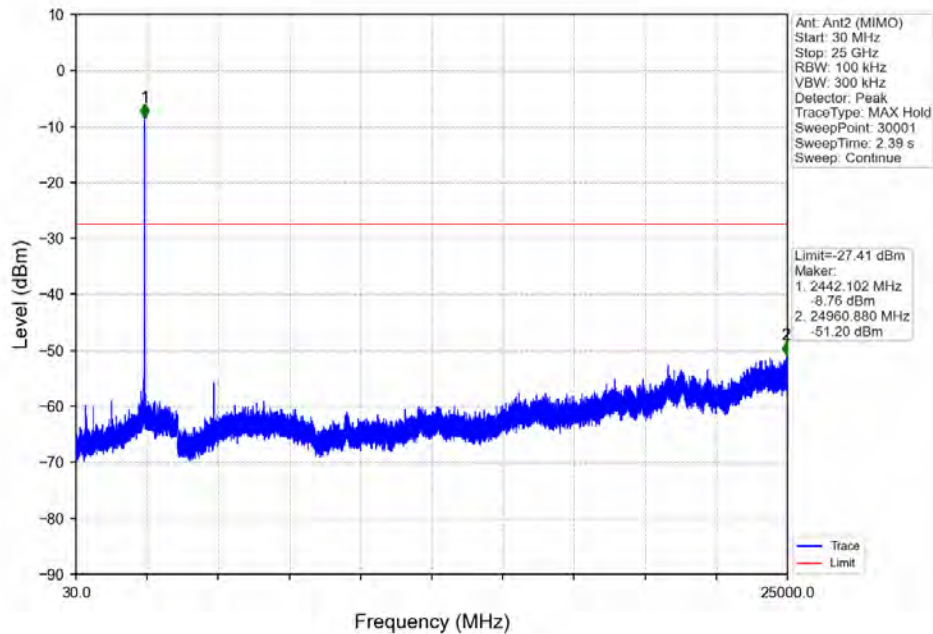
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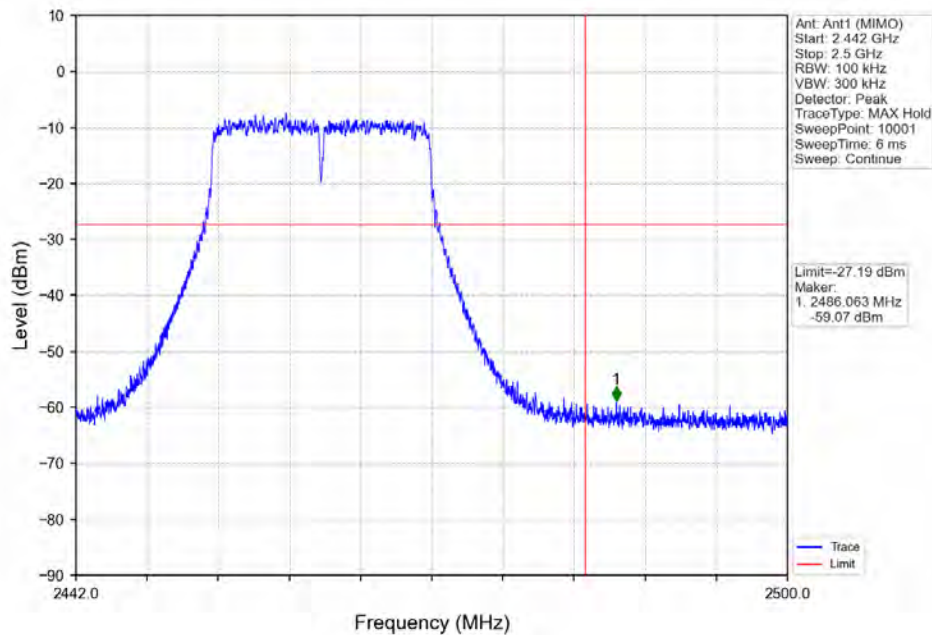
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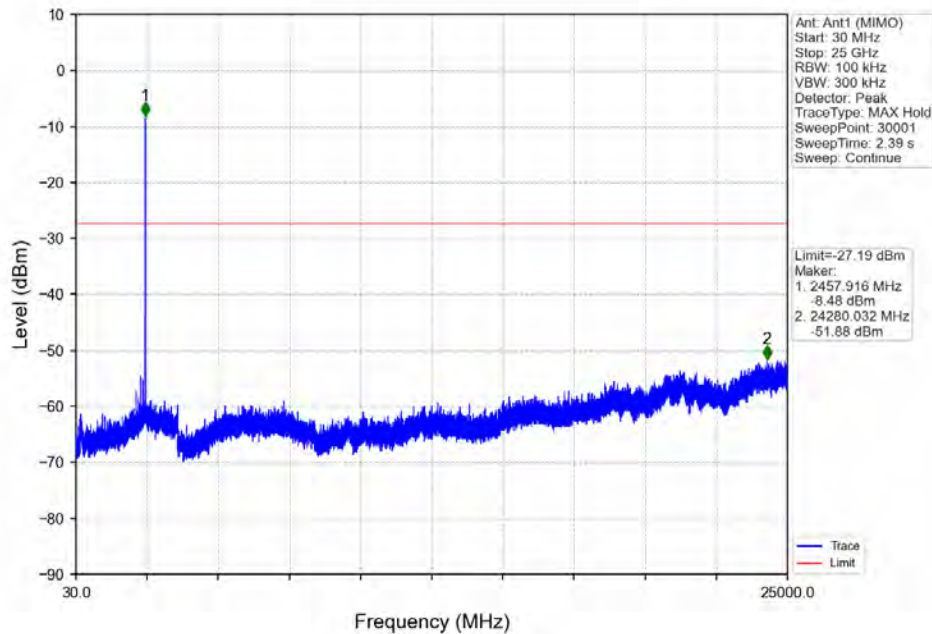
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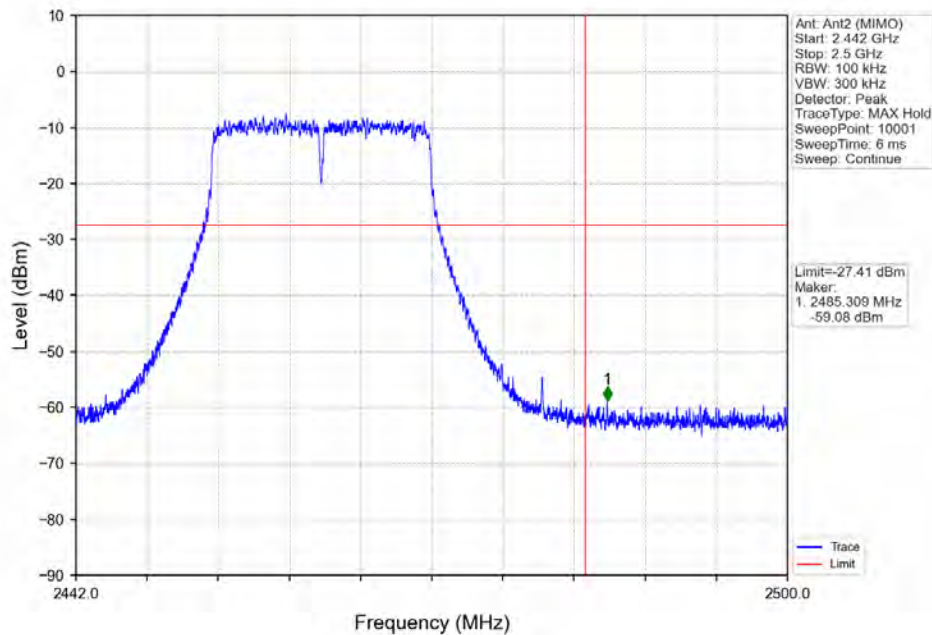
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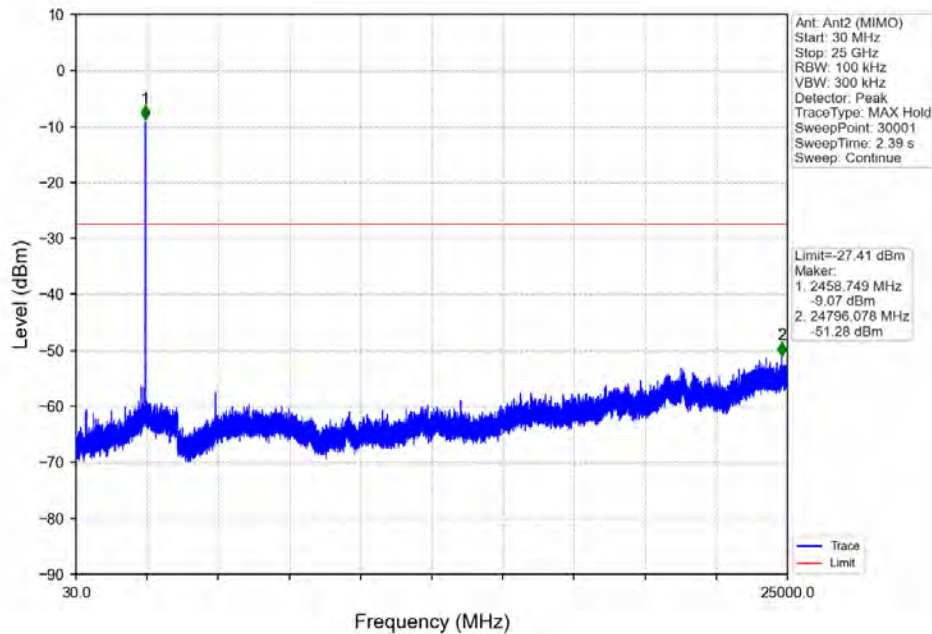
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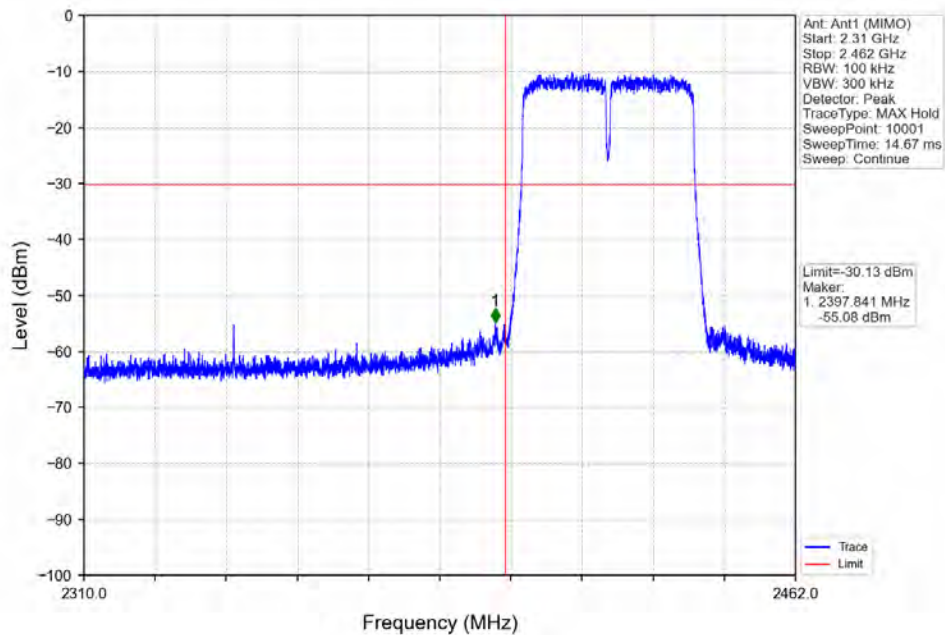
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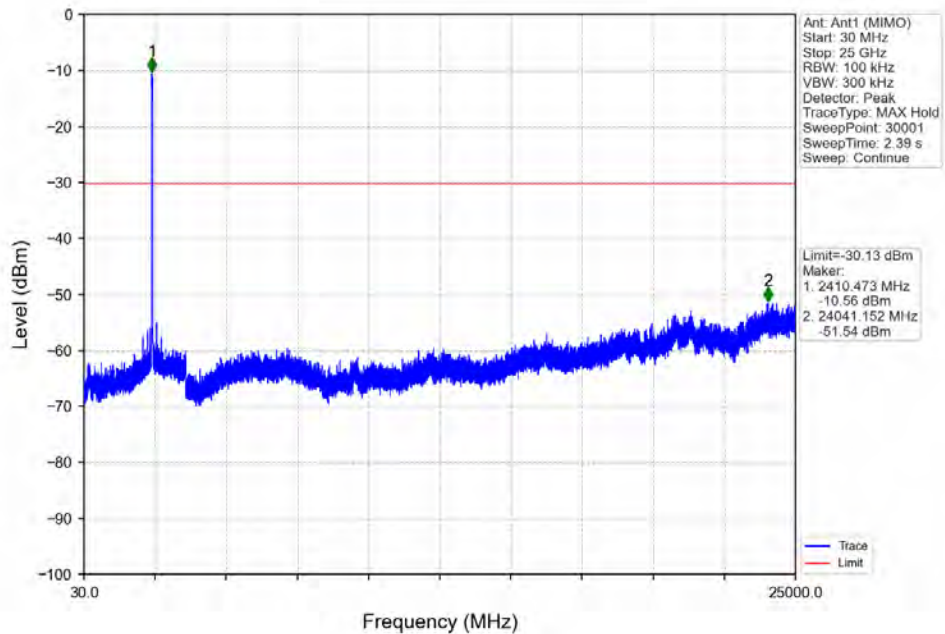
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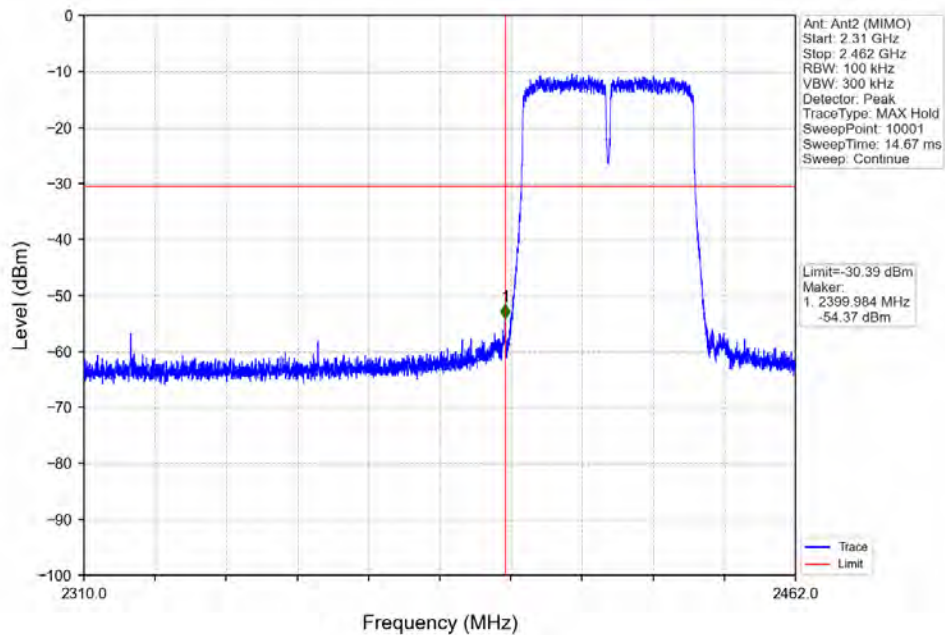
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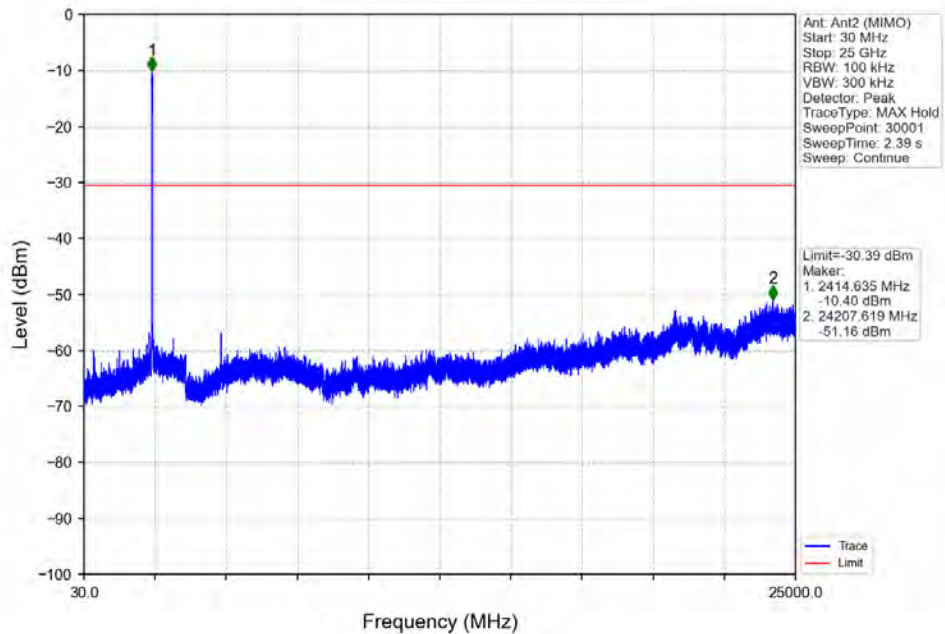
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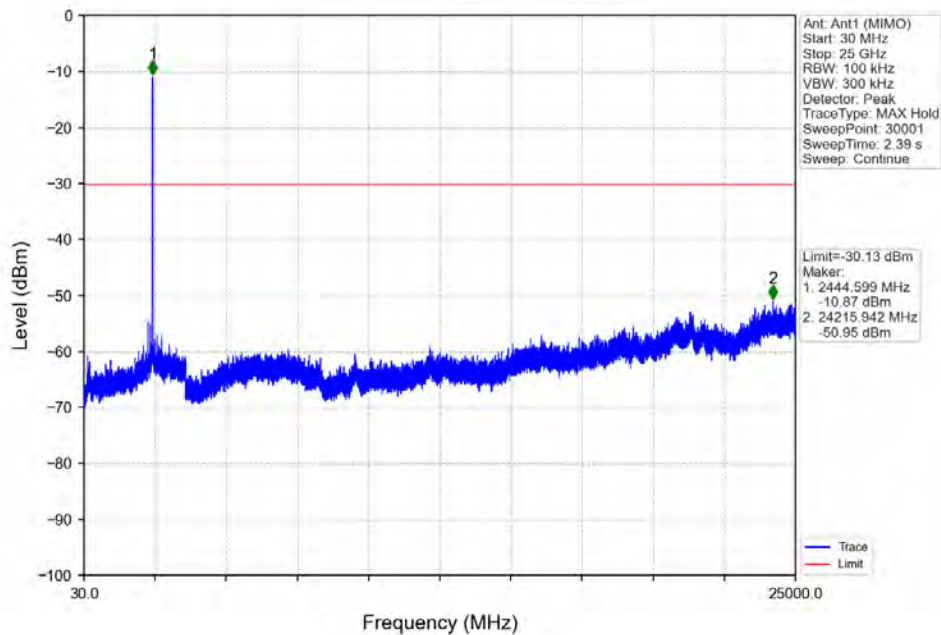
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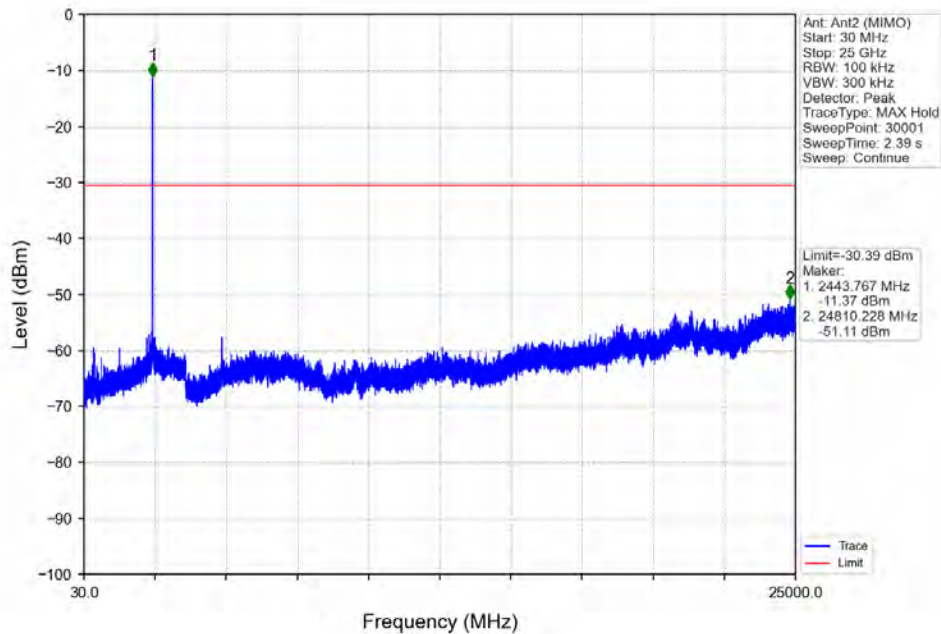
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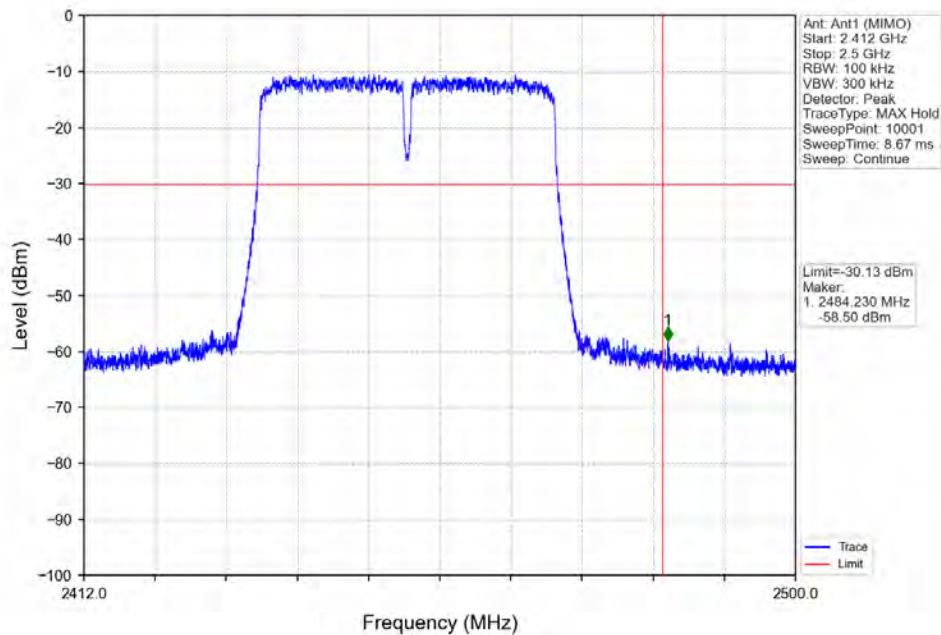
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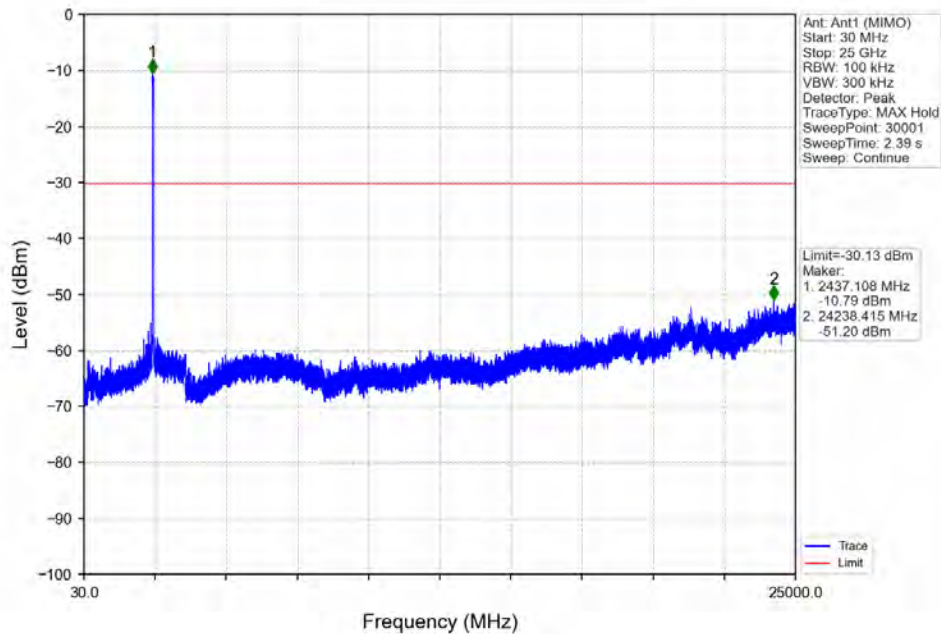
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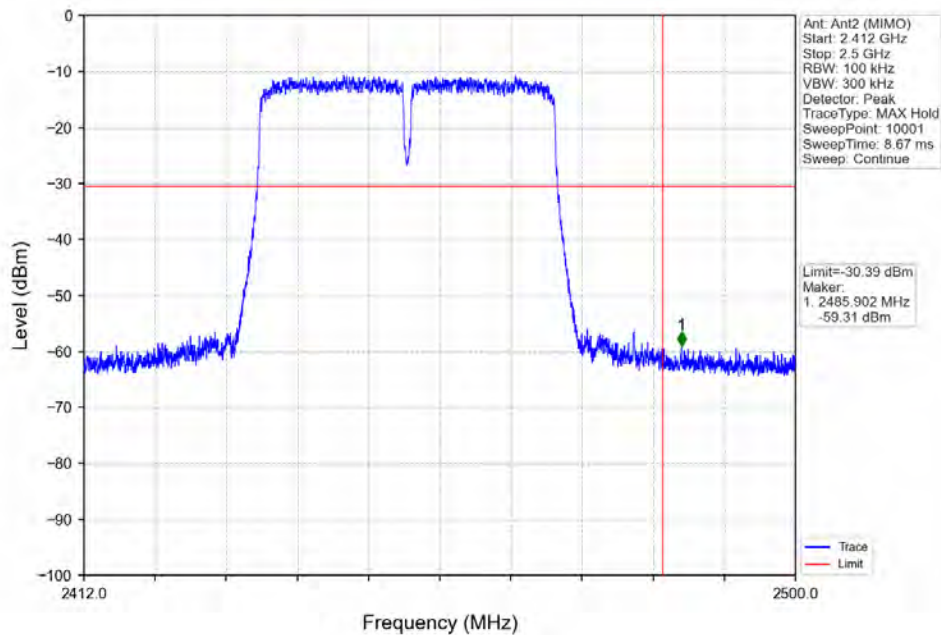
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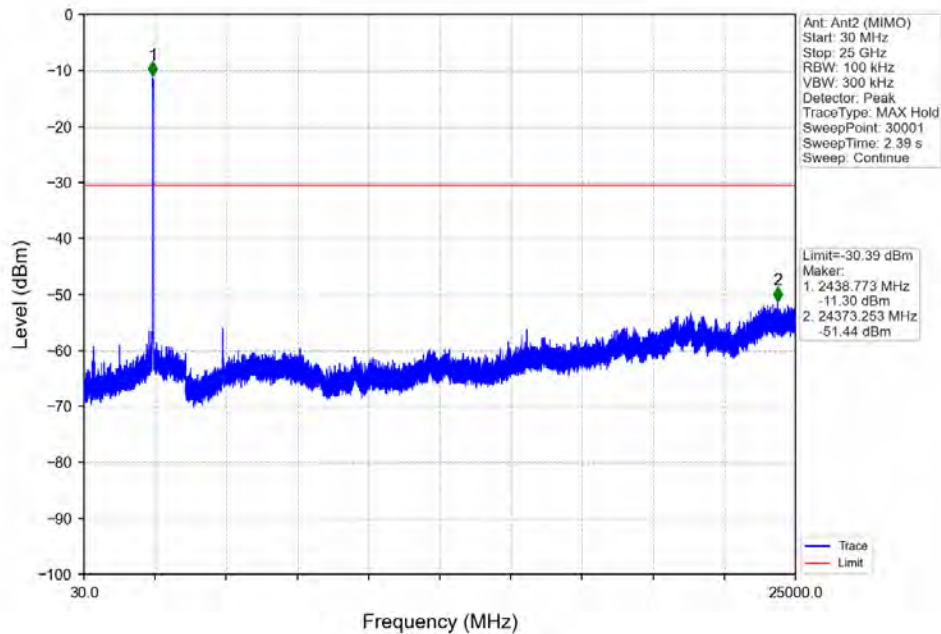
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