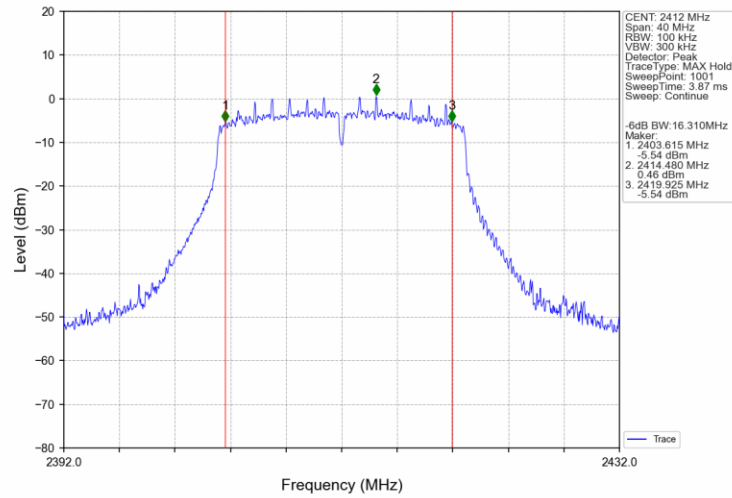
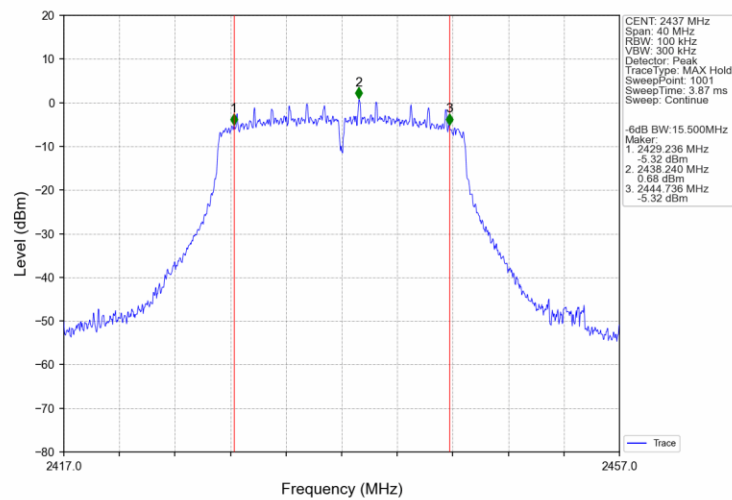


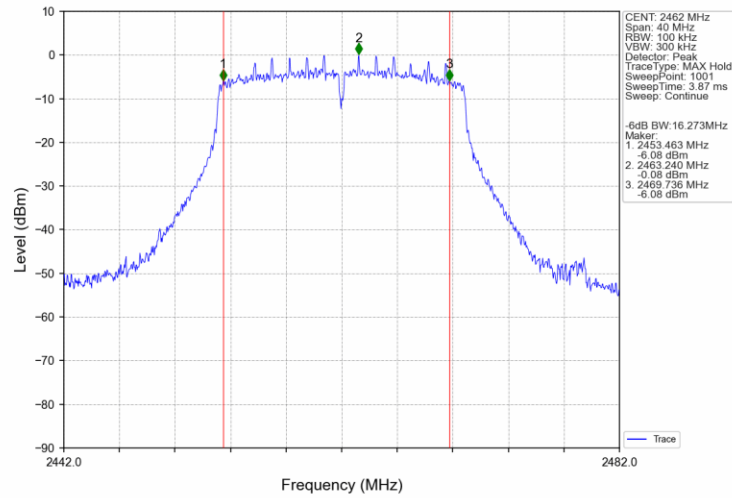
## 802.11n(HT20)\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



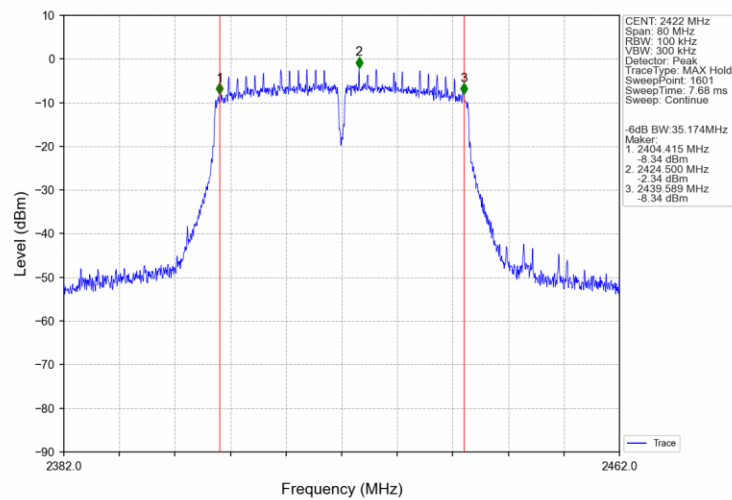
## 802.11n(HT20)\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



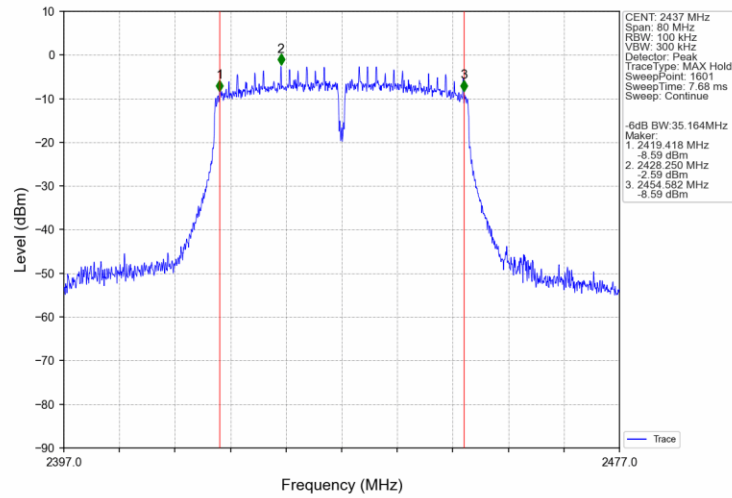
802.11n(HT20)\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



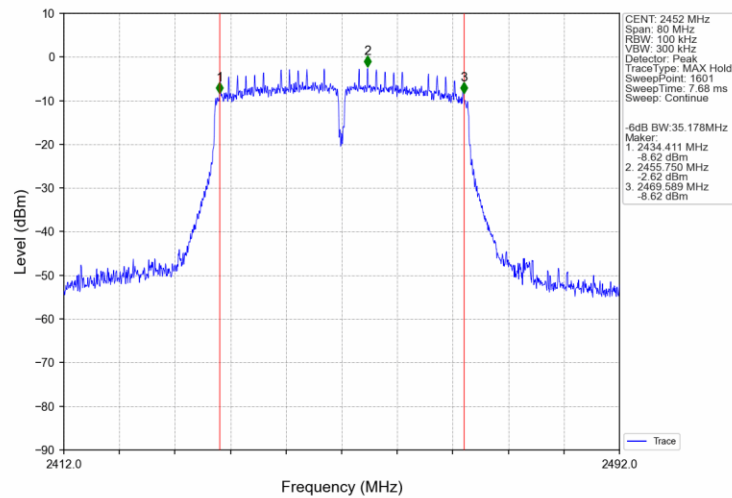
802.11n(HT40)\_LCH\_2422MHz\_Ant2 (SISO)\_NTNV



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



## 802.11n(HT40)\_HCH\_2452MHz\_Ant2 (SISO)\_NTNV



#### 4. Maximum Conducted Output Power

## 4.1 Test Result

### 4.1.1 Power

| Mode                                                                                                                     | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       |       |       | Verdict |
|--------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-------------------------------------------|-------|-------|-------|---------|
|                                                                                                                          |         |                 | ANT1                                      | ANT2  | MIMO  | Limit |         |
| 802.11b                                                                                                                  | SISO    | 2412            | 9.92                                      | 9.70  | /     | <=30  | Pass    |
|                                                                                                                          |         | 2437            | 8.35                                      | 10.08 | /     | <=30  | Pass    |
|                                                                                                                          |         | 2462            | 15.36                                     | 10.26 | /     | <=30  | Pass    |
| 802.11g                                                                                                                  | SISO    | 2412            | 9.85                                      | 9.80  | /     | <=30  | Pass    |
|                                                                                                                          |         | 2437            | 8.31                                      | 9.66  | /     | <=30  | Pass    |
|                                                                                                                          |         | 2462            | 9.75                                      | 10.16 | /     | <=30  | Pass    |
| 802.11n (HT20)                                                                                                           | SISO    | 2412            | 12.24                                     | 13.18 | /     | <=30  | Pass    |
|                                                                                                                          |         | 2437            | 13.15                                     | 15.35 | /     | <=30  | Pass    |
|                                                                                                                          |         | 2462            | 12.22                                     | 13.84 | /     | <=30  | Pass    |
| 802.11n (HT40)                                                                                                           | SISO    | 2422            | 13.05                                     | 14.55 | /     | <=30  | Pass    |
|                                                                                                                          |         | 2437            | 13.66                                     | 15.25 | /     | <=30  | Pass    |
|                                                                                                                          |         | 2452            | 12.35                                     | 13.51 | /     | <=30  | Pass    |
| 802.11n (HT20)                                                                                                           | MIMO    | 2412            | 12.27                                     | 13.22 | 15.78 | <=30  | Pass    |
|                                                                                                                          |         | 2437            | 13.01                                     | 15.51 | 17.45 | <=30  | Pass    |
|                                                                                                                          |         | 2462            | 12.30                                     | 13.93 | 16.20 | <=30  | Pass    |
| 802.11n (HT40)                                                                                                           | MIMO    | 2422            | 13.50                                     | 14.76 | 17.19 | <=30  | Pass    |
|                                                                                                                          |         | 2437            | 13.57                                     | 15.44 | 17.62 | <=30  | Pass    |
|                                                                                                                          |         | 2452            | 12.52                                     | 13.29 | 15.93 | <=30  | Pass    |
| Note1: Antenna Gain: Ant1: 5.95dBi; Ant2: 5.93dBi;<br>Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain) |         |                 |                                           |       |       |       |         |



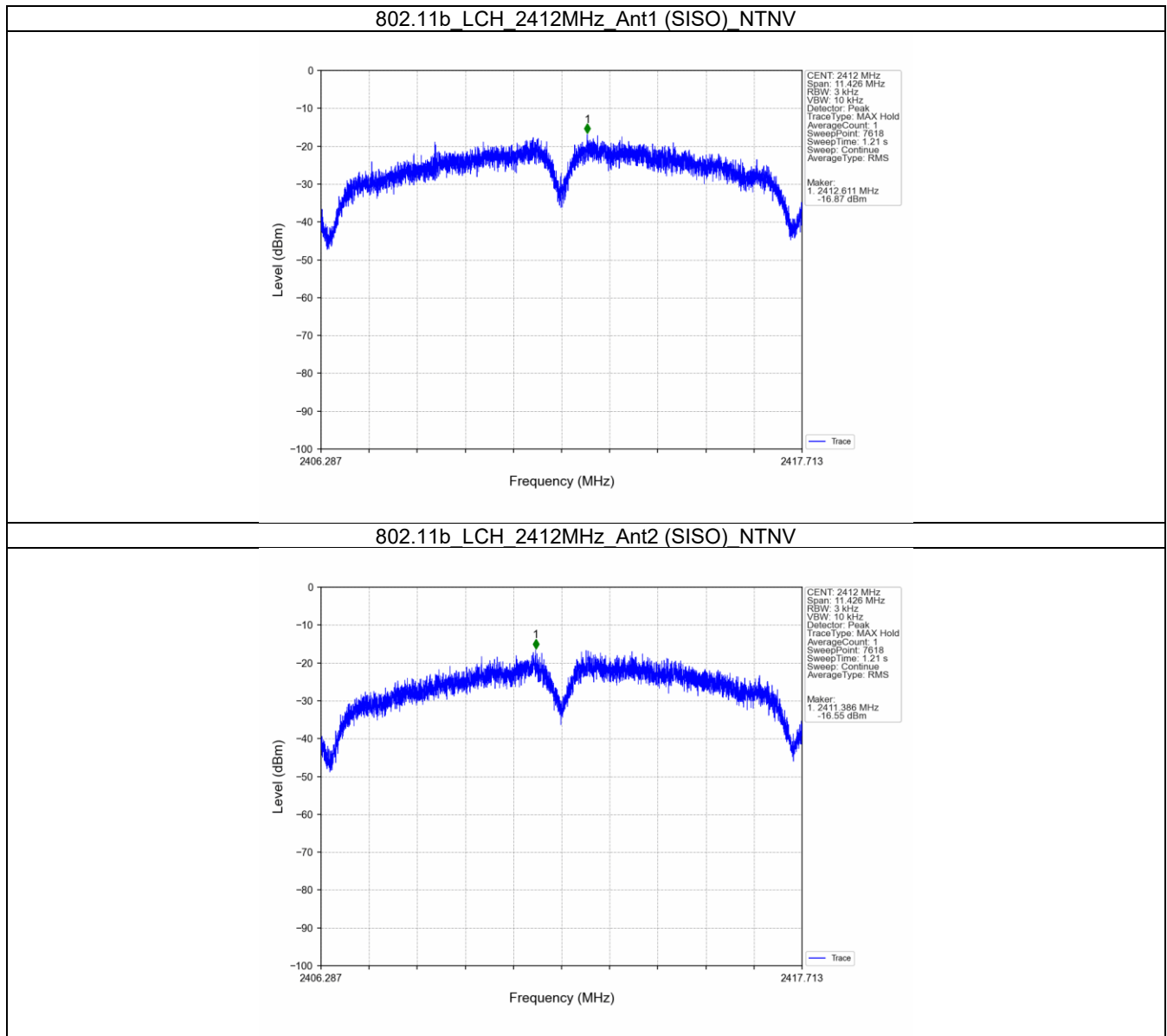
### 5.1.1 PSD

| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |        |        |       | Verdict |
|----------------|---------|-----------------|------------------------|--------|--------|-------|---------|
|                |         |                 | ANT1                   | ANT2   | MIMO   | Limit |         |
| 802.11b        | SISO    | 2412            | -16.87                 | -16.55 | /      | <=8   | Pass    |
|                |         | 2437            | -16.21                 | -14.33 | /      | <=8   | Pass    |
|                |         | 2462            | -11.26                 | -15.20 | /      | <=8   | Pass    |
| 802.11g        | SISO    | 2412            | -16.32                 | -16.43 | /      | <=8   | Pass    |
|                |         | 2437            | -16.31                 | -14.81 | /      | <=8   | Pass    |
|                |         | 2462            | -16.27                 | -16.32 | /      | <=8   | Pass    |
| 802.11n (HT20) | SISO    | 2412            | -18.89                 | -17.90 | /      | <=8   | Pass    |
|                |         | 2437            | -18.66                 | -16.95 | /      | <=8   | Pass    |
|                |         | 2462            | -18.01                 | -17.32 | /      | <=8   | Pass    |
| 802.11n (HT40) | SISO    | 2422            | -20.05                 | -17.66 | /      | <=8   | Pass    |
|                |         | 2437            | -22.84                 | -19.34 | /      | <=8   | Pass    |
|                |         | 2452            | -21.04                 | -18.61 | /      | <=8   | Pass    |
| 802.11n (HT20) | MIMO    | 2412            | -19.79                 | -16.96 | -16.14 | <=8   | Pass    |
|                |         | 2437            | -17.59                 | -16.14 | -15.54 | <=8   | Pass    |
|                |         | 2462            | -19.23                 | -17.72 | -16.18 | <=8   | Pass    |
| 802.11n (HT40) | MIMO    | 2422            | -20.99                 | -18.28 | -17.56 | <=8   | Pass    |
|                |         | 2437            | -22.03                 | -18.34 | -17.87 | <=8   | Pass    |
|                |         | 2452            | -20.91                 | -18.75 | -18.23 | <=8   | Pass    |

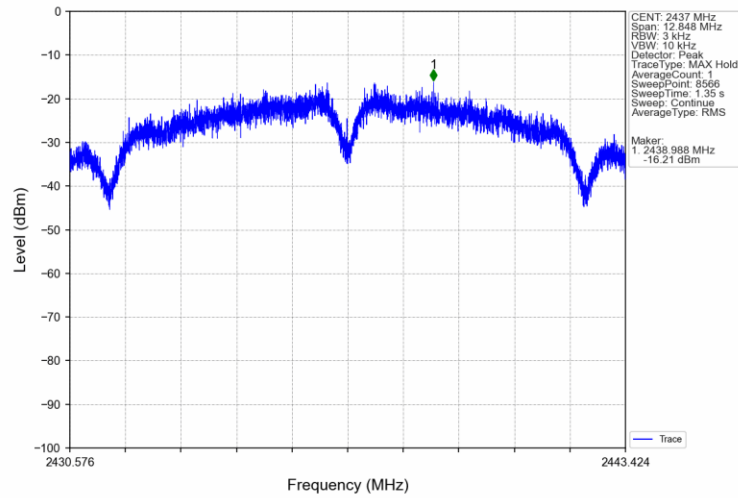
Note1: Antenna Gain: Ant1: 5.95dBi; Ant2: 5.93dBi;  
Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)

## 5.2 Test Graph

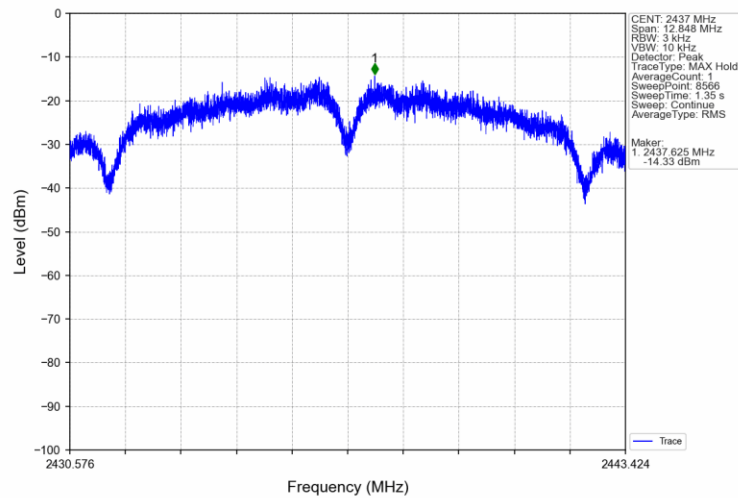
### 5.2.1 PSD



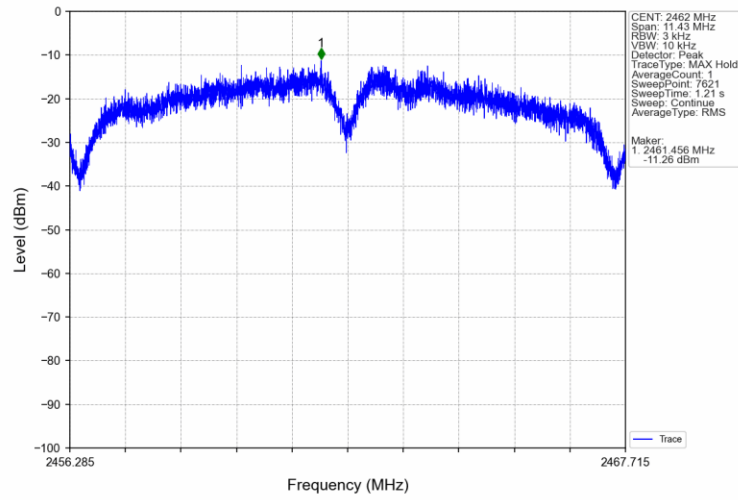
## 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



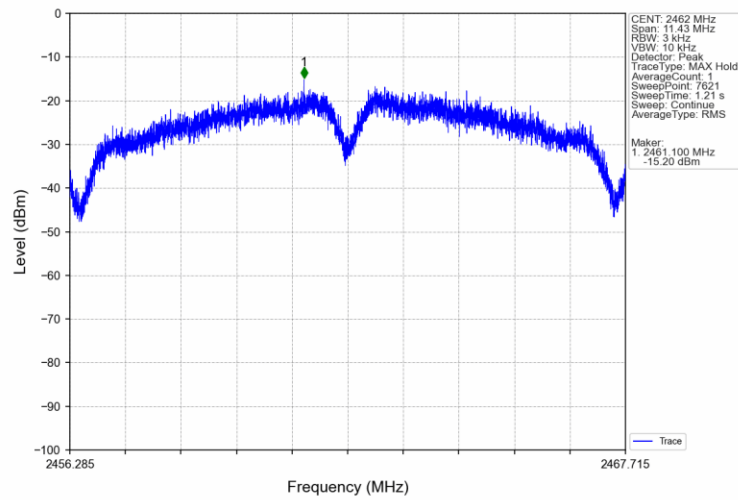
## 802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



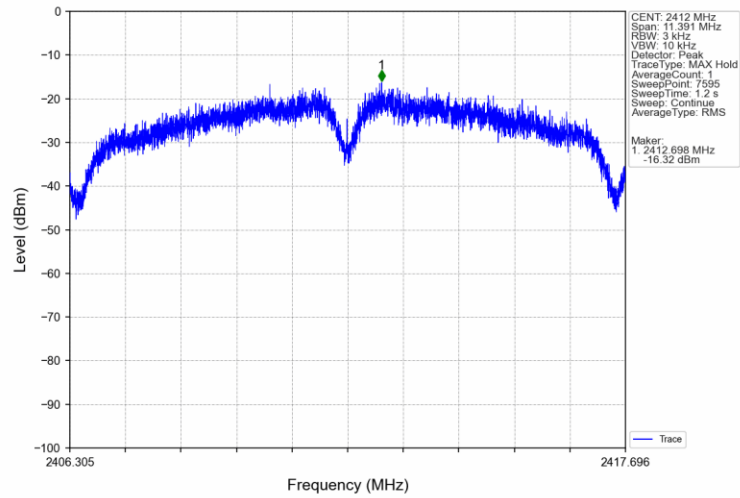
## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



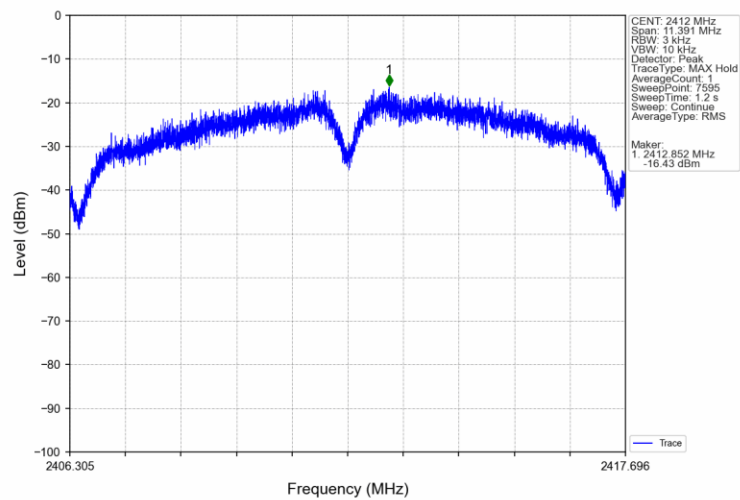
## 802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



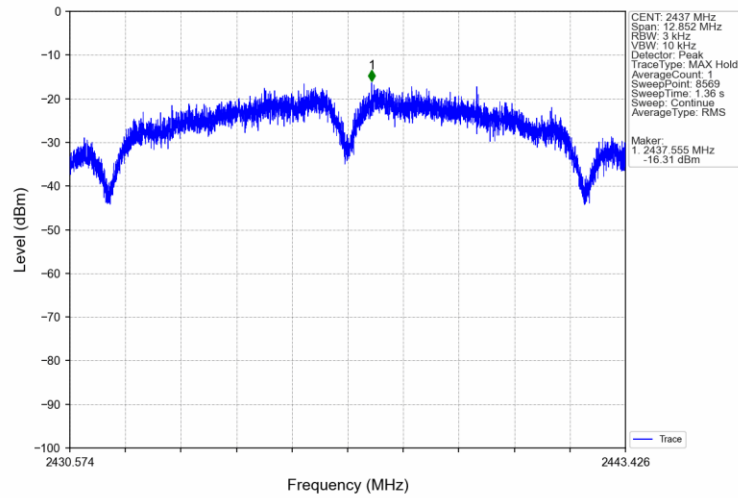
## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



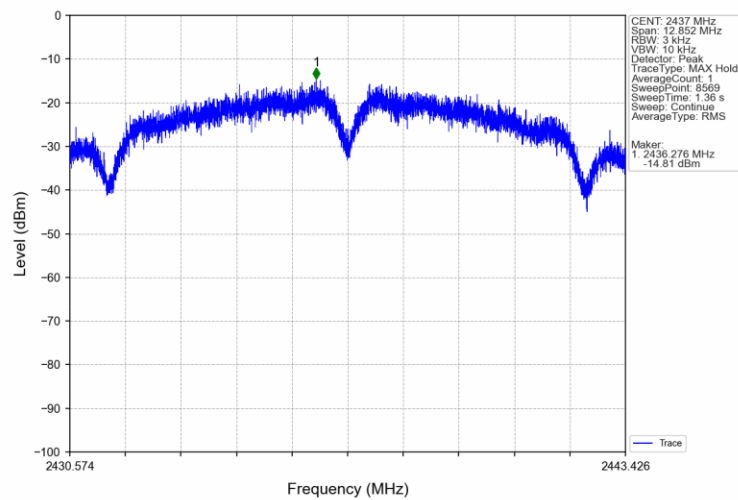
## 802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



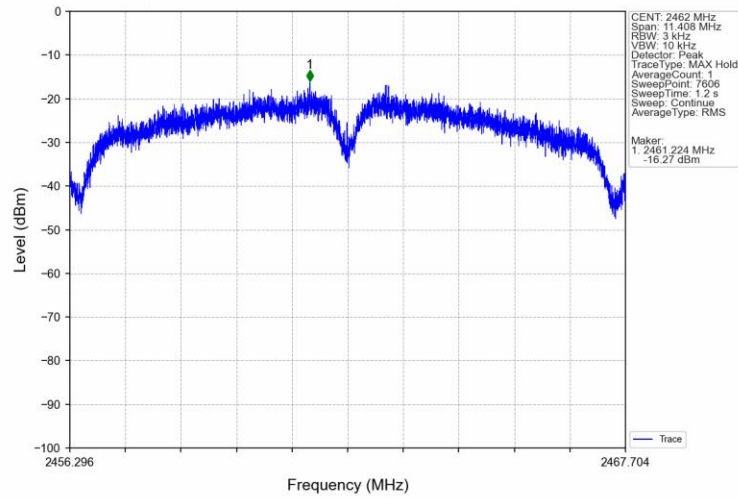
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



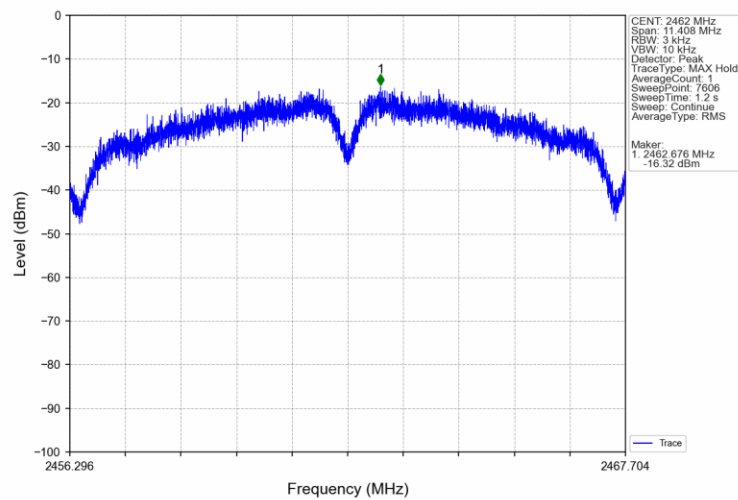
802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



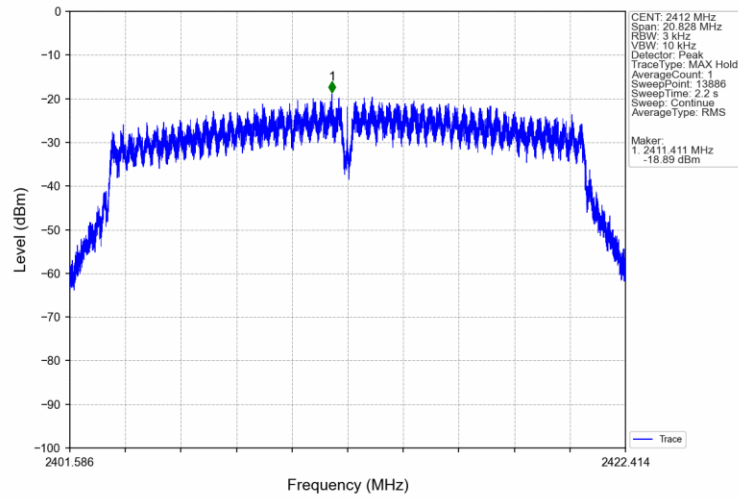
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



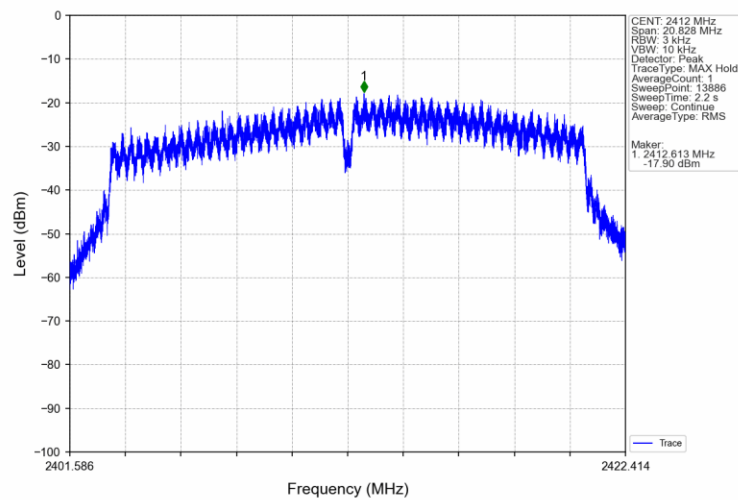
802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



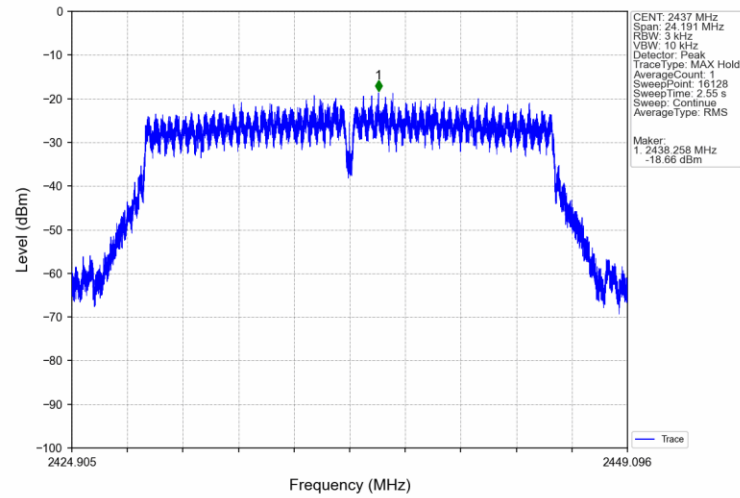
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



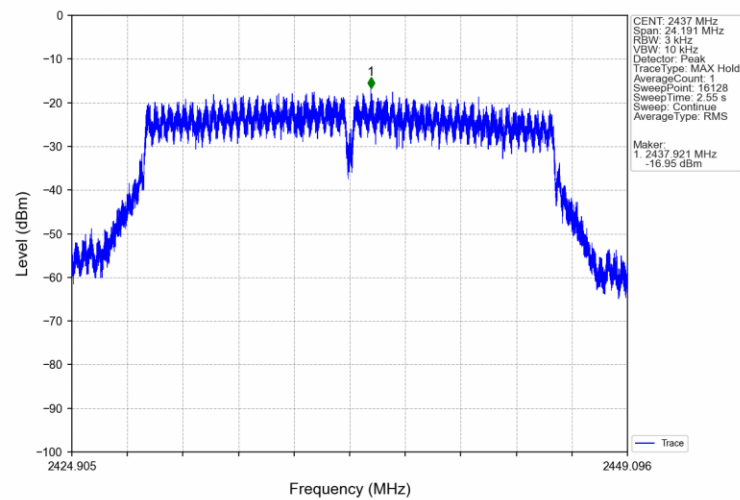
802.11n(HT20)\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



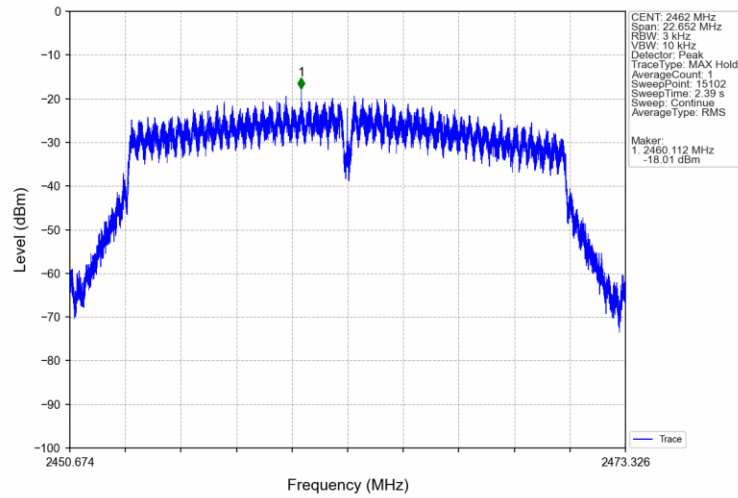
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



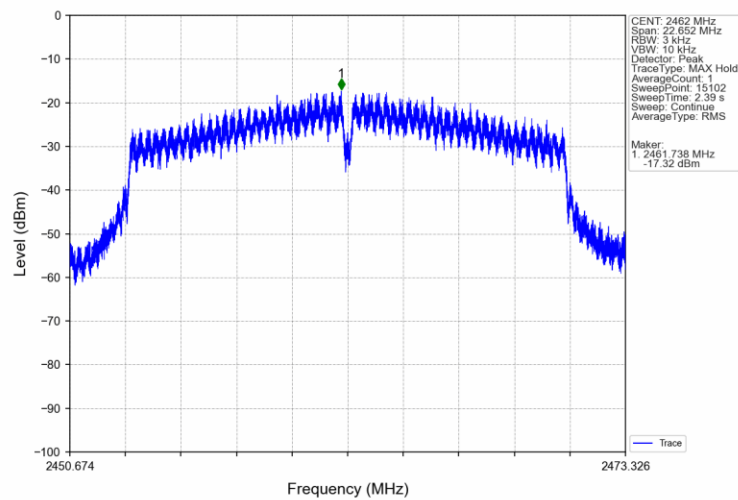
802.11n(HT20)\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



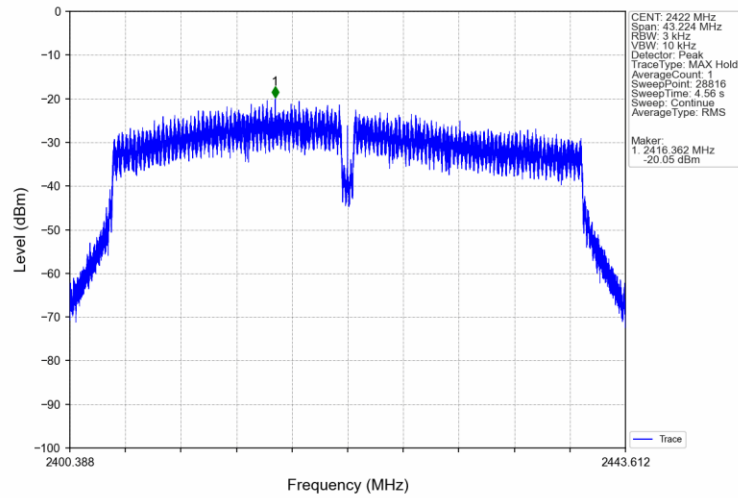
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



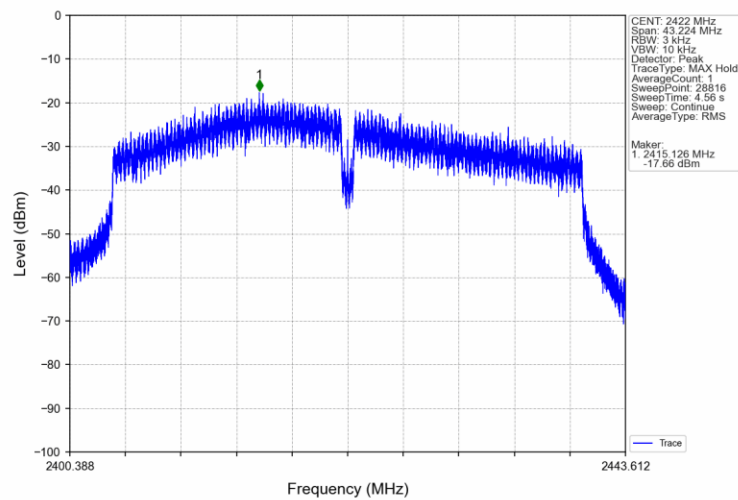
802.11n(HT20)\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



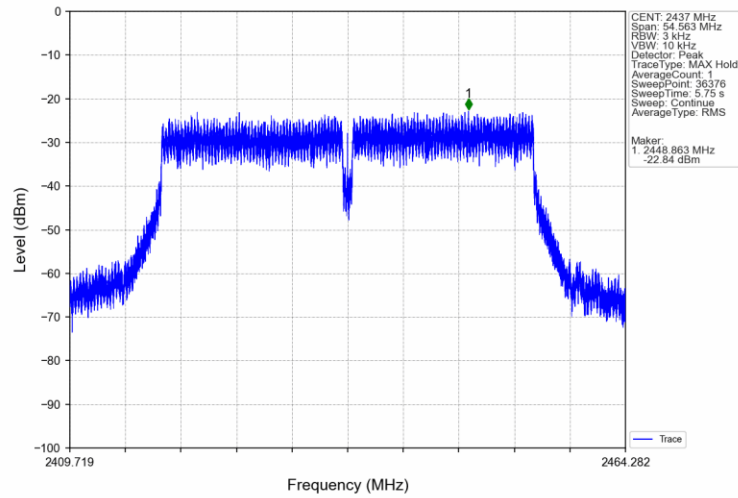
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



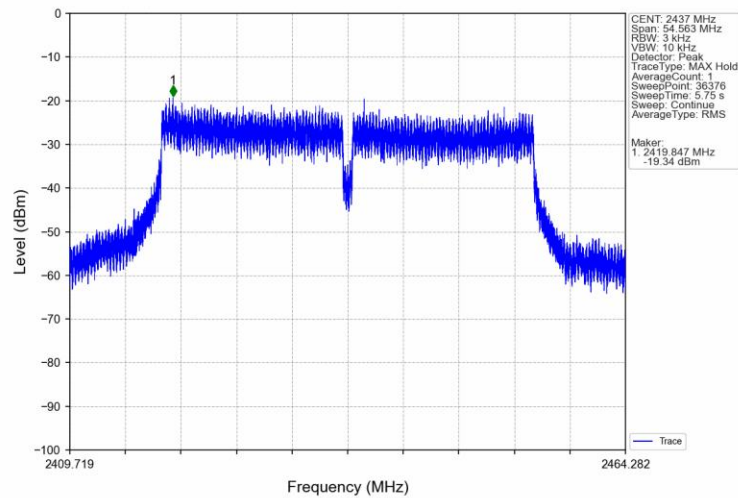
802.11n(HT40)\_LCH\_2422MHz\_Ant2 (SISO)\_NTNV



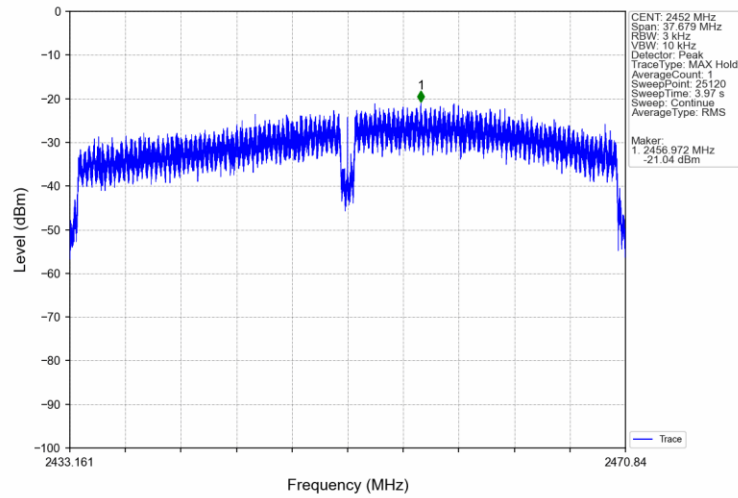
802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



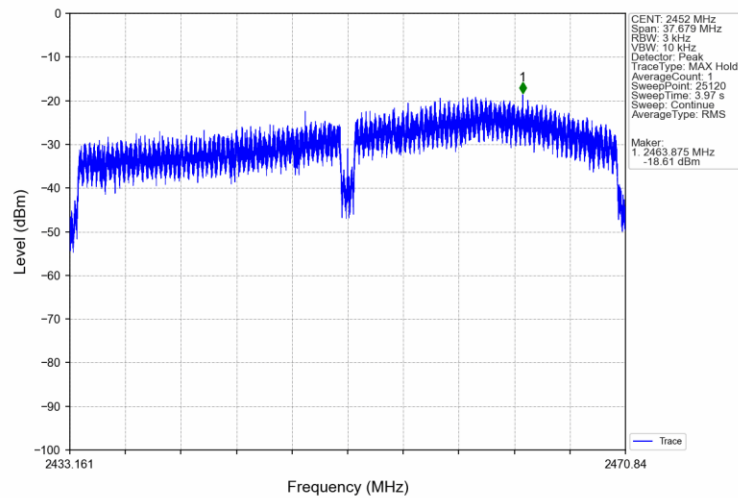
802.11n(HT40)\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



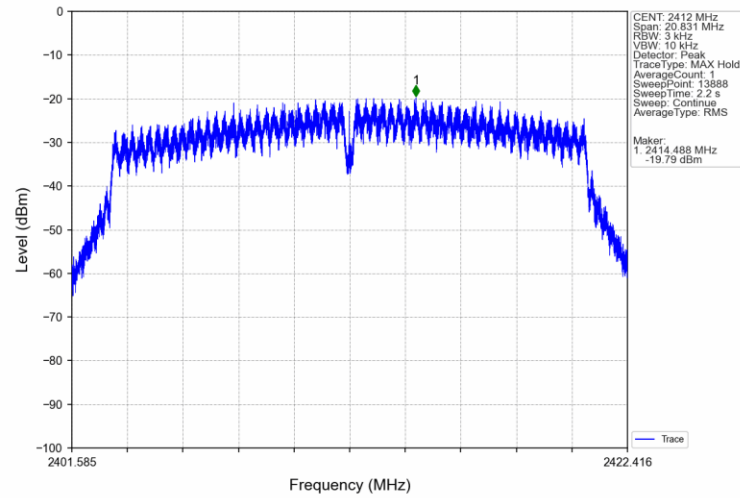
802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



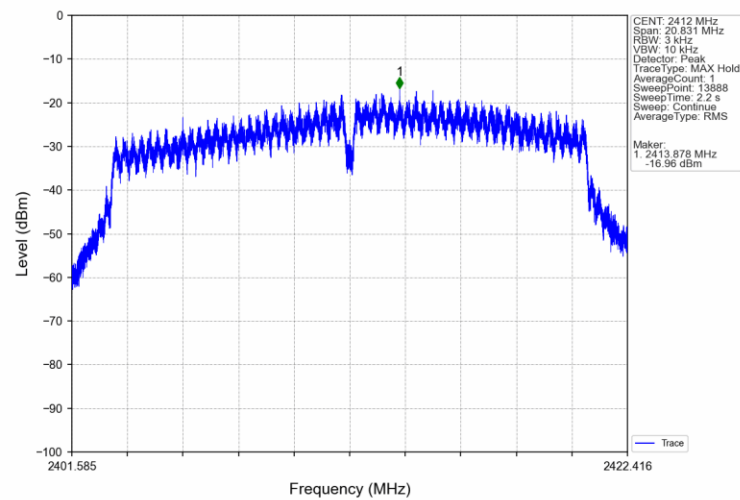
802.11n(HT40)\_HCH\_2452MHz\_Ant2 (SISO)\_NTNV



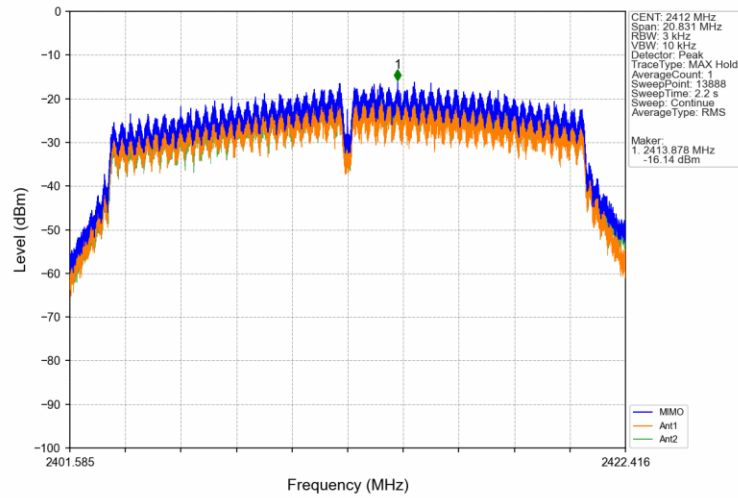
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



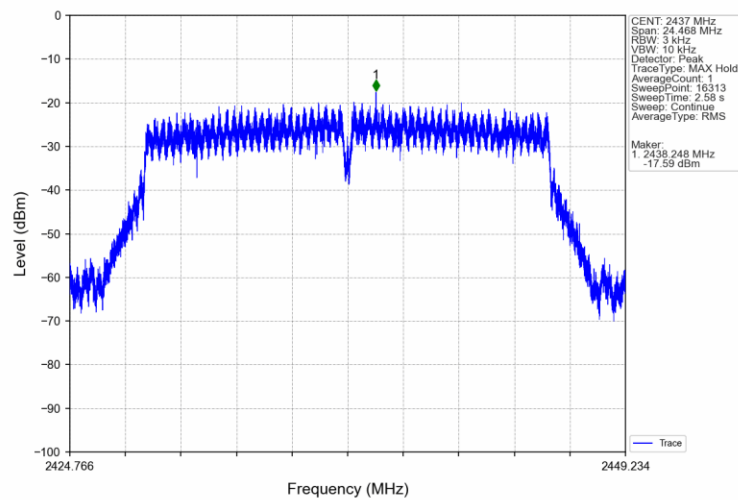
802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



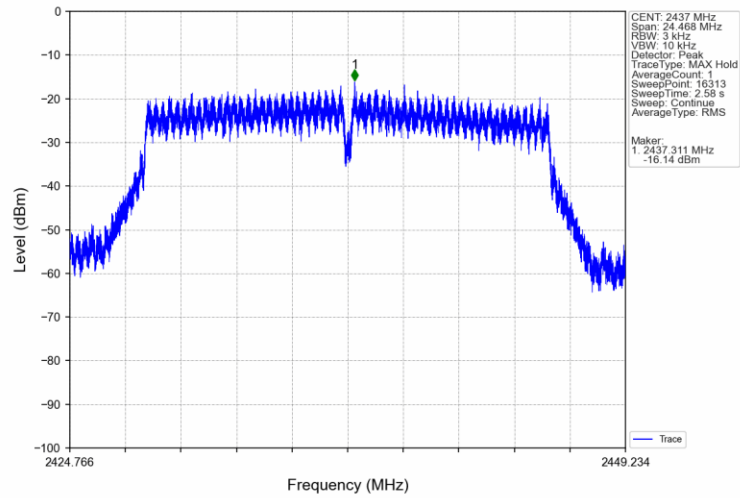
802.11n(HT20)\_LCH\_2412MHz\_MIMO\_NTNV



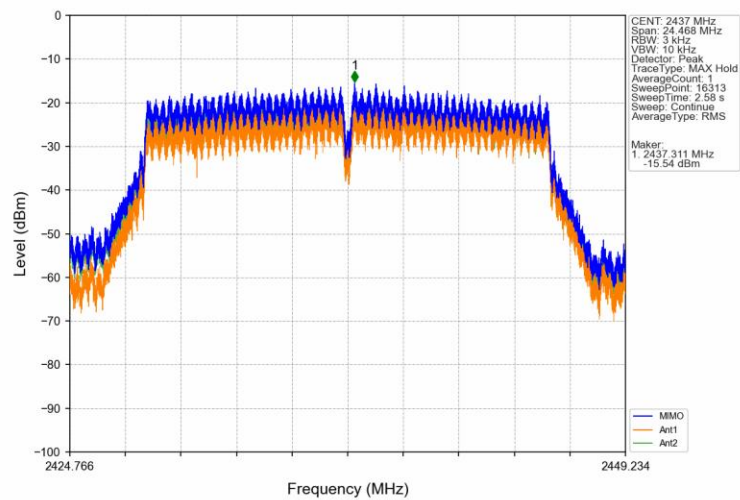
802.11n(HT20)\_MCH\_2437MHz\_Ant1(MIMO)\_NTNV



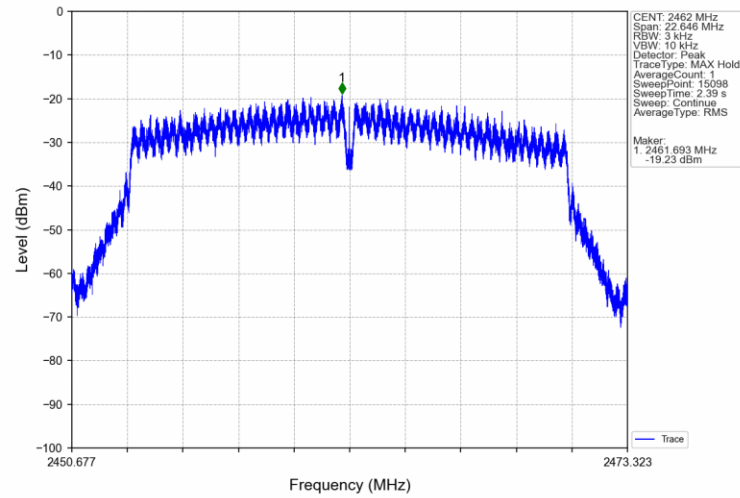
802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



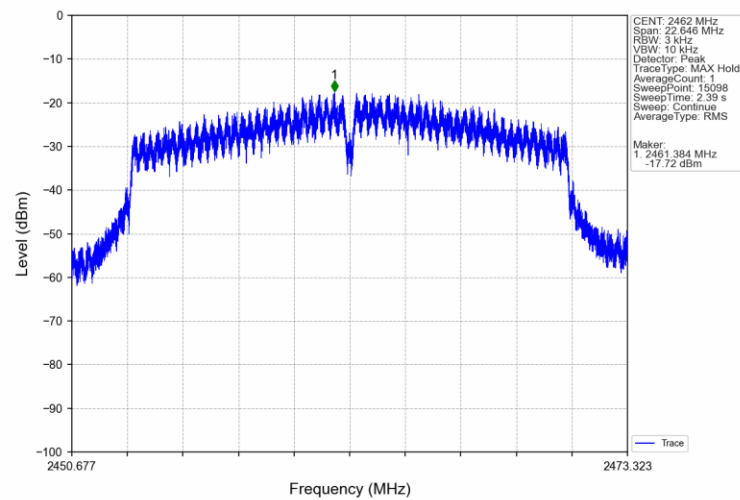
802.11n(HT20)\_MCH\_2437MHz MIMO NTV



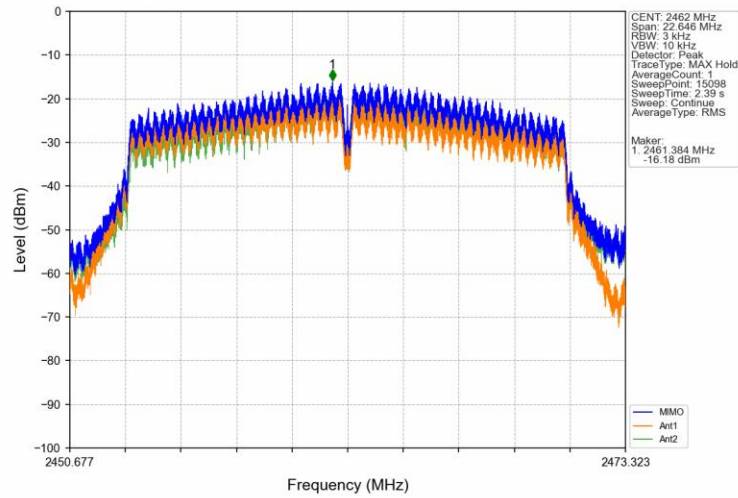
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



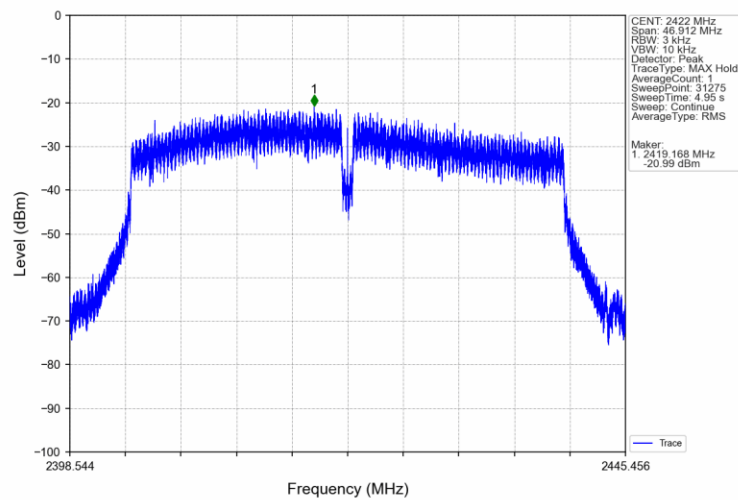
802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



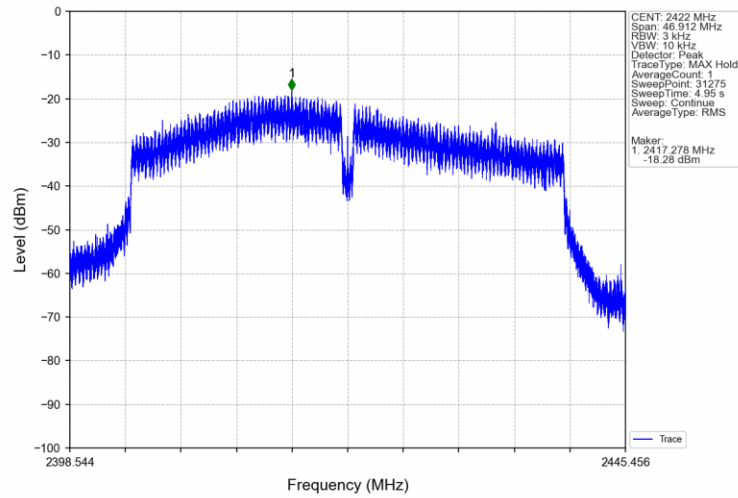
802.11n(HT20)\_HCH\_2462MHz\_MIMO\_NTNV



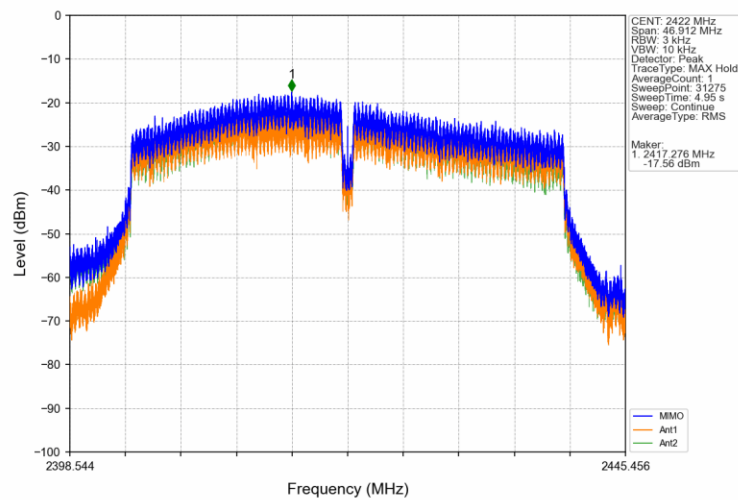
802.11n(HT40)\_LCH\_2422MHz\_Ant1(MIMO)\_NTNV



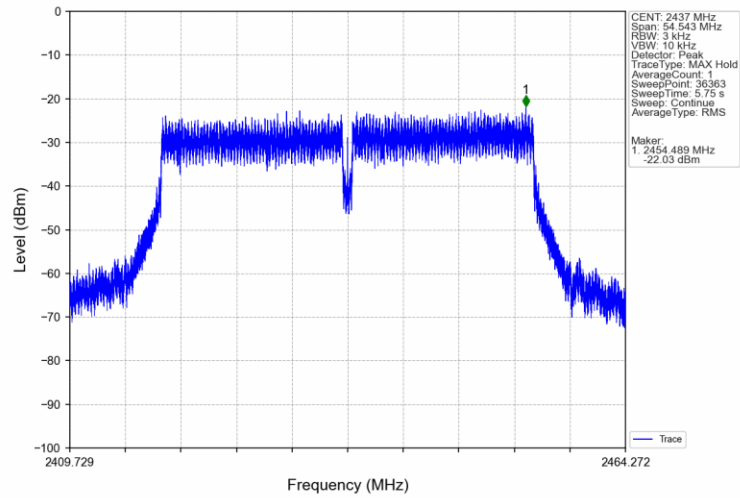
802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



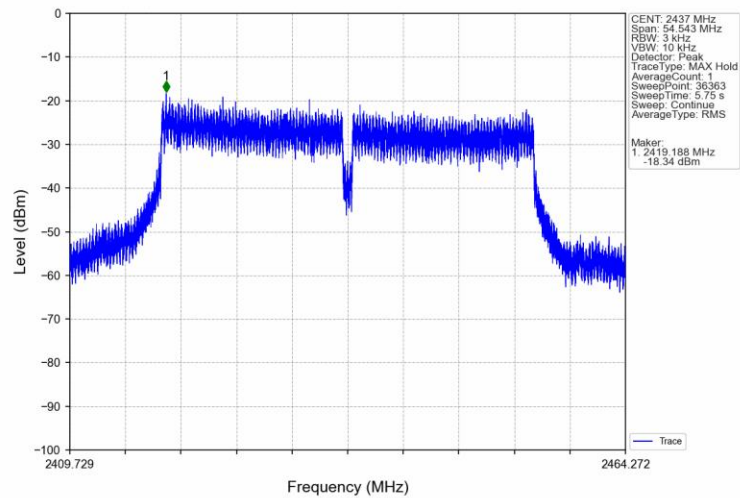
802.11n(HT40)\_LCH\_2422MHz MIMO NTV



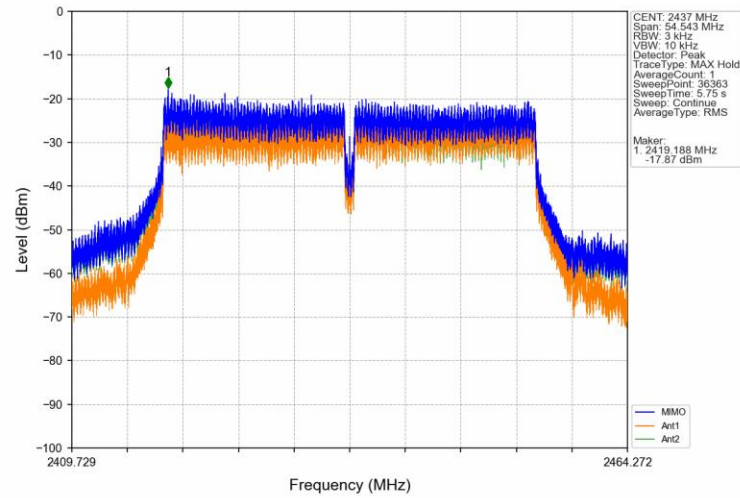
802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



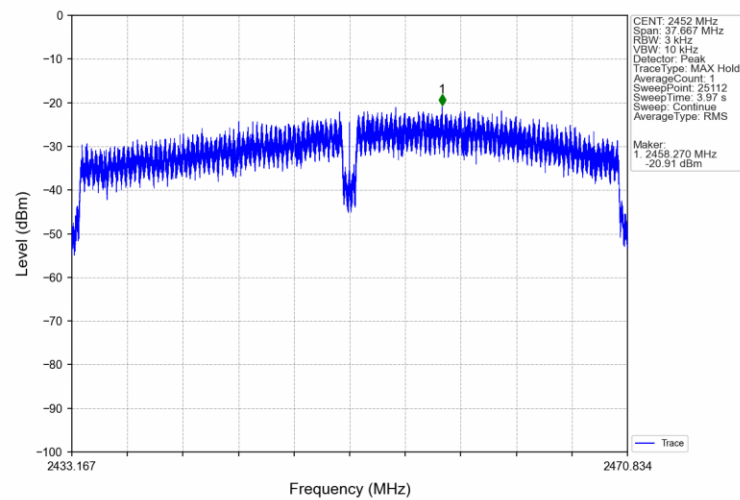
802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



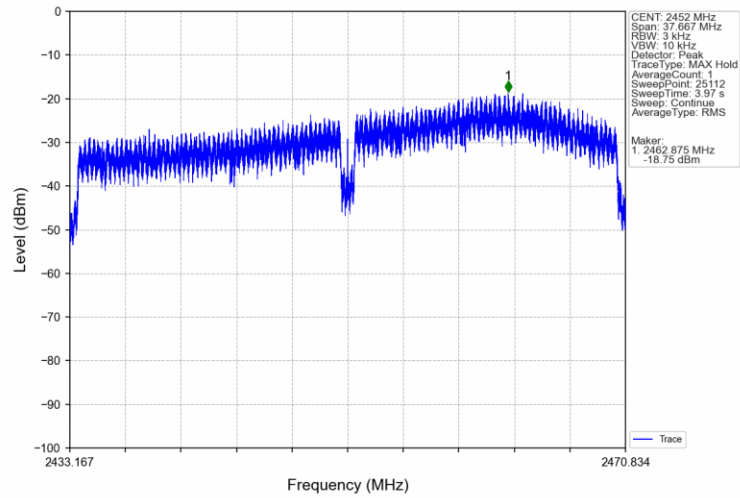
802.11n(HT40)\_MCH\_2437MHz\_MIMO\_NTNV



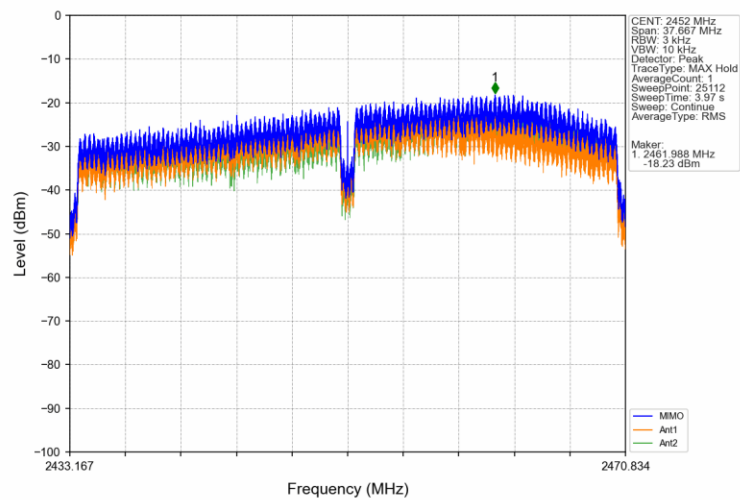
802.11n(HT40)\_HCH\_2452MHz\_Ant1(MIMO)\_NTNV



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



802.11n(HT40)\_HCH\_2452MHz MIMO NTNV



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

### 6.1 Test Result

#### 6.1.1 Ref

| Mode           | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b        | SISO    | 2412            | 1   | -2.54                    |
|                |         |                 | 2   | -2.61                    |
|                |         | 2437            | 1   | -2.22                    |
|                |         |                 | 2   | -0.69                    |
|                |         | 2462            | 1   | 2.69                     |
|                |         |                 | 2   | -2.38                    |
| 802.11g        | SISO    | 2412            | 1   | -2.67                    |
|                |         |                 | 2   | -2.49                    |
|                |         | 2437            | 1   | -2.29                    |
|                |         |                 | 2   | -0.74                    |
|                |         | 2462            | 1   | -2.99                    |
|                |         |                 | 2   | -1.91                    |
| 802.11n (HT20) | SISO    | 2412            | 1   | -4.86                    |
|                |         |                 | 2   | -4.99                    |
|                |         | 2437            | 1   | -4.78                    |
|                |         |                 | 2   | -4.39                    |
|                |         | 2462            | 1   | -5.01                    |
|                |         |                 | 2   | -4.82                    |
| 802.11n (HT40) | SISO    | 2422            | 1   | -6.43                    |
|                |         |                 | 2   | -5.20                    |
|                |         | 2437            | 1   | -8.04                    |
|                |         |                 | 2   | -8.10                    |
|                |         | 2452            | 1   | -6.43                    |
|                |         |                 | 2   | -6.37                    |
| 802.11n (HT20) | MIMO    | 2412            | 1   | -4.36                    |
|                |         |                 | 2   | -4.52                    |
|                |         | 2437            | 1   | -4.88                    |
|                |         |                 | 2   | -4.48                    |
|                |         | 2462            | 1   | -5.26                    |
|                |         |                 | 2   | -4.67                    |
| 802.11n (HT40) | MIMO    | 2422            | 1   | -6.50                    |
|                |         |                 | 2   | -5.26                    |
|                |         | 2437            | 1   | -8.09                    |
|                |         |                 | 2   | -7.21                    |
|                |         | 2452            | 1   | -6.43                    |
|                |         |                 | 2   | -6.38                    |

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.

#### 6.1.2 CSE

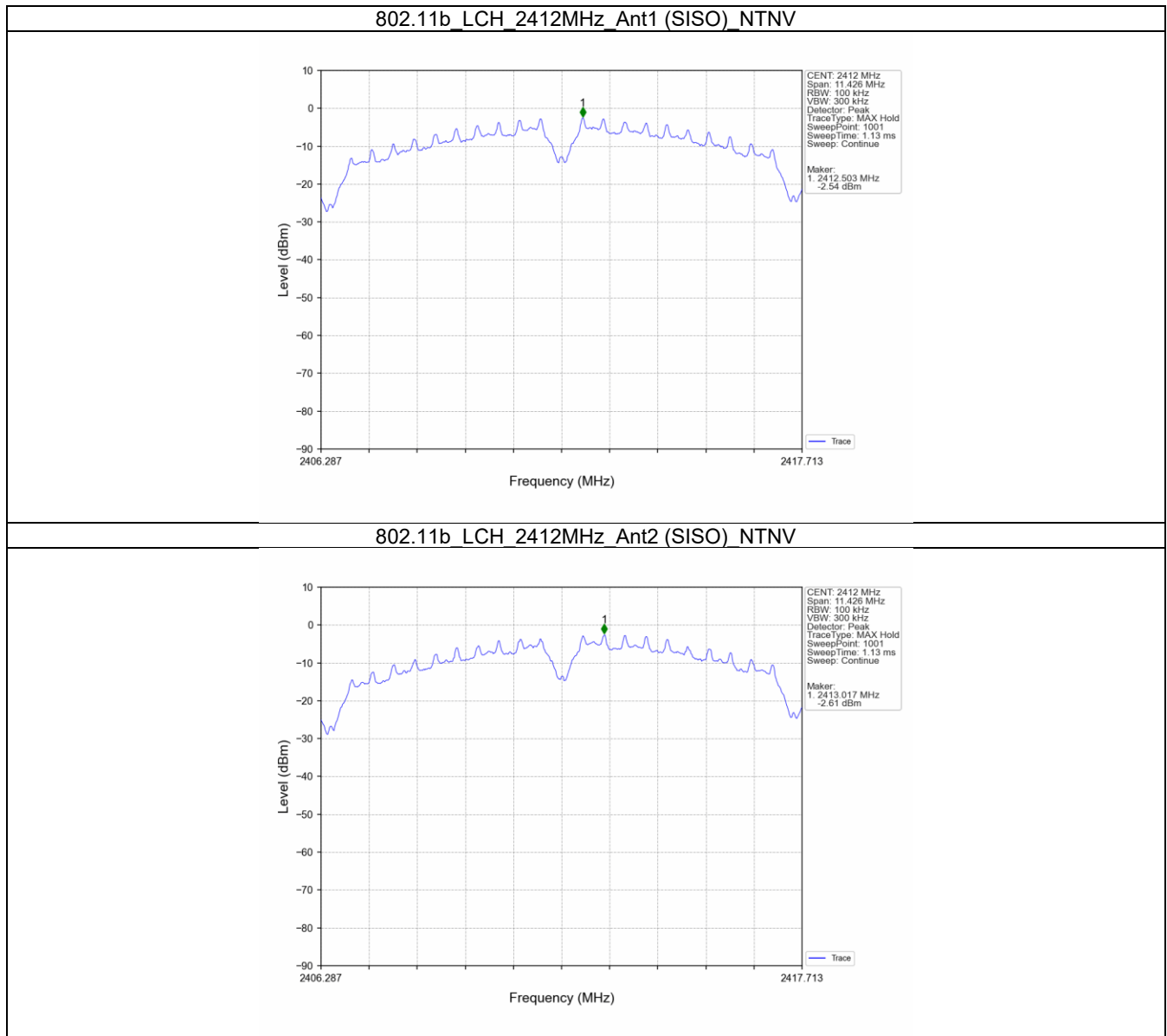
| Mode    | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|---------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b | SISO    | 2412            | 1   | -2.54                    | -22.54      | Pass    |
|         |         |                 | 2   | -2.61                    | -22.61      | Pass    |
|         |         | 2437            | 1   | -2.22                    | -22.22      | Pass    |

|                   |      |      |   |       |        |      |
|-------------------|------|------|---|-------|--------|------|
|                   |      |      | 2 | -0.69 | -20.69 | Pass |
|                   |      | 2462 | 1 | 2.69  | -17.31 | Pass |
| 802.11g           | SISO | 2412 | 2 | -2.38 | -22.38 | Pass |
|                   |      |      | 1 | -2.67 | -22.67 | Pass |
|                   |      | 2437 | 2 | -2.49 | -22.49 | Pass |
|                   |      |      | 1 | -2.29 | -22.29 | Pass |
|                   |      | 2462 | 2 | -0.74 | -20.74 | Pass |
|                   |      |      | 1 | -2.99 | -22.99 | Pass |
|                   |      |      | 2 | -1.91 | -21.91 | Pass |
|                   |      |      | 1 | -4.86 | -24.86 | Pass |
| 802.11n<br>(HT20) | SISO | 2412 | 2 | -4.99 | -24.99 | Pass |
|                   |      |      | 1 | -4.78 | -24.78 | Pass |
|                   |      | 2437 | 2 | -4.39 | -24.39 | Pass |
|                   |      |      | 1 | -5.01 | -25.01 | Pass |
|                   |      | 2462 | 2 | -4.82 | -24.82 | Pass |
|                   |      |      | 1 | -6.43 | -26.43 | Pass |
|                   |      |      | 2 | -5.20 | -25.20 | Pass |
|                   |      |      | 1 | -8.04 | -28.04 | Pass |
| 802.11n<br>(HT40) | SISO | 2422 | 2 | -8.10 | -28.10 | Pass |
|                   |      |      | 1 | -6.43 | -26.43 | Pass |
|                   |      | 2437 | 2 | -6.37 | -26.37 | Pass |
|                   |      |      | 1 | -4.36 | -24.36 | Pass |
|                   |      | 2462 | 2 | -4.52 | -24.52 | Pass |
|                   |      |      | 1 | -4.88 | -24.88 | Pass |
|                   |      |      | 2 | -4.48 | -24.48 | Pass |
|                   |      |      | 1 | -5.26 | -25.26 | Pass |
| 802.11n<br>(HT20) | MIMO | 2412 | 2 | -4.67 | -24.67 | Pass |
|                   |      |      | 1 | -4.36 | -24.36 | Pass |
|                   |      | 2437 | 2 | -4.88 | -24.88 | Pass |
|                   |      |      | 1 | -4.48 | -24.48 | Pass |
|                   |      | 2462 | 2 | -5.26 | -25.26 | Pass |
|                   |      |      | 1 | -5.26 | -25.26 | Pass |
|                   |      |      | 2 | -8.09 | -28.09 | Pass |
|                   |      |      | 1 | -7.21 | -27.21 | Pass |
| 802.11n<br>(HT40) | MIMO | 2422 | 2 | -6.43 | -26.43 | Pass |
|                   |      |      | 1 | -6.38 | -26.38 | Pass |
|                   |      | 2437 | 2 | -6.50 | -26.50 | Pass |
|                   |      |      | 1 | -5.26 | -25.26 | Pass |
|                   |      | 2452 | 2 | -6.38 | -26.38 | Pass |
|                   |      |      | 1 | -6.50 | -26.50 | Pass |
|                   |      |      | 2 | -6.38 | -26.38 | Pass |
|                   |      |      | 1 | -6.50 | -26.50 | Pass |

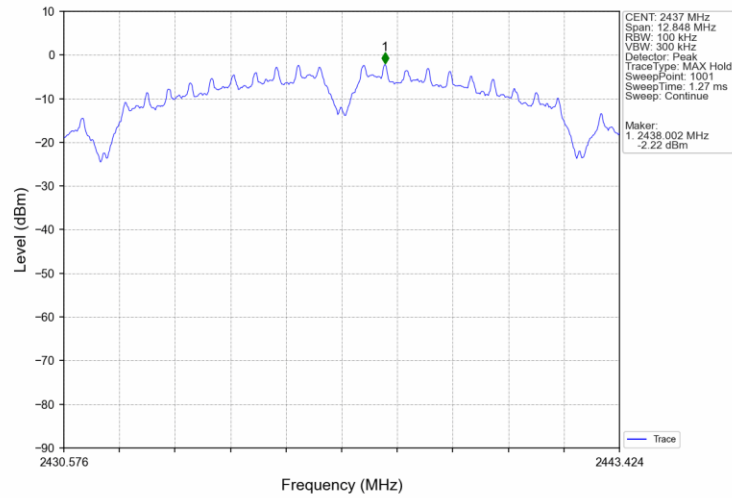
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

## 6.2 Test Graph

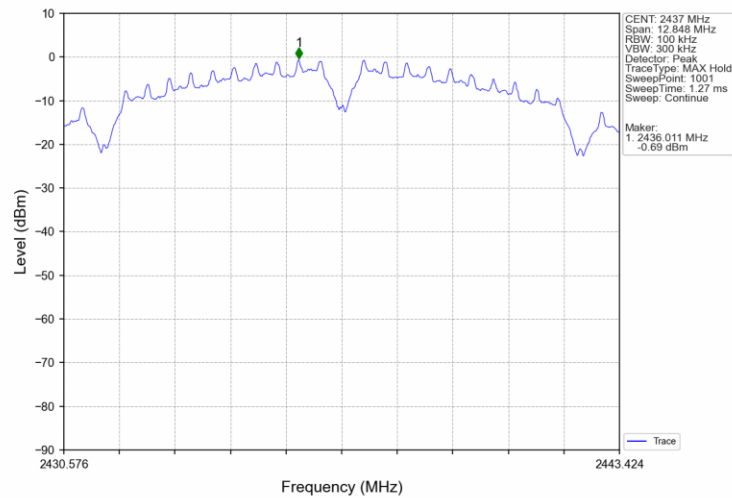
### 6.2.1 Ref



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

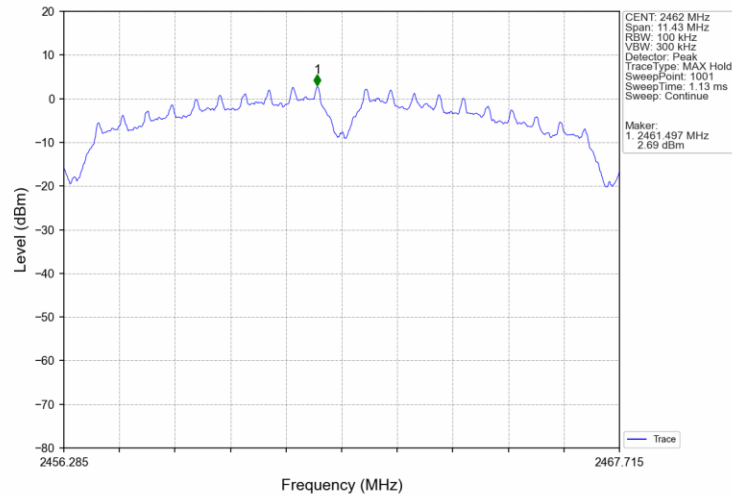


## 802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV

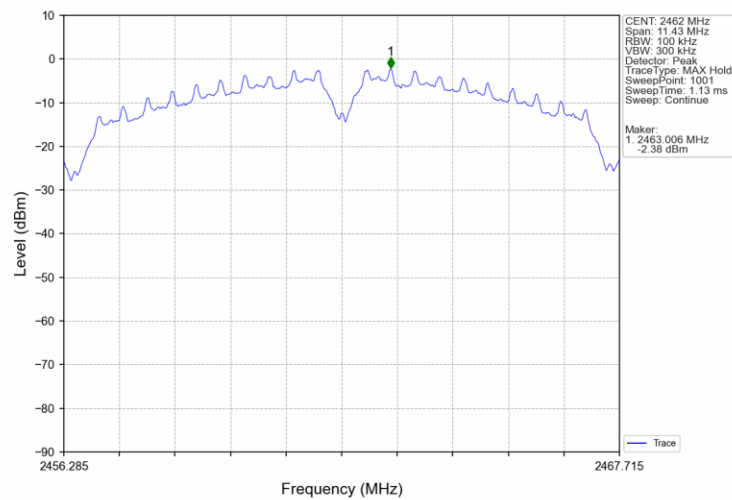




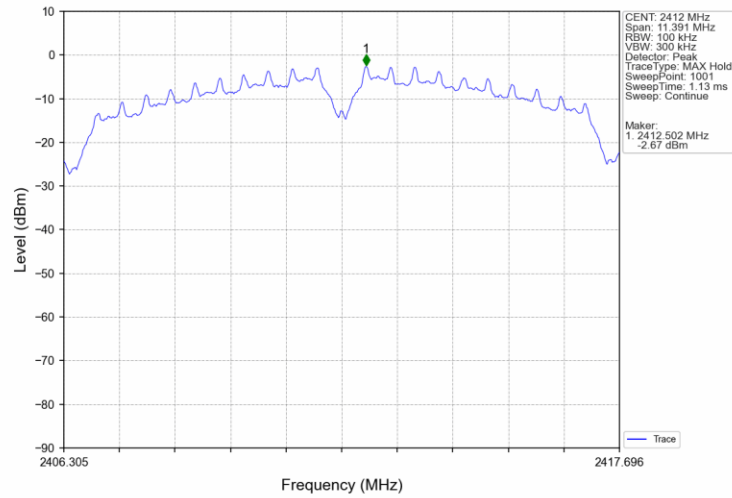
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



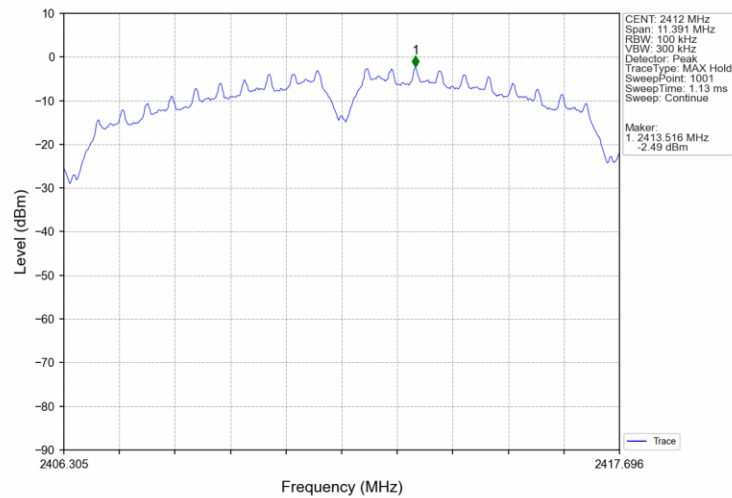
802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



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

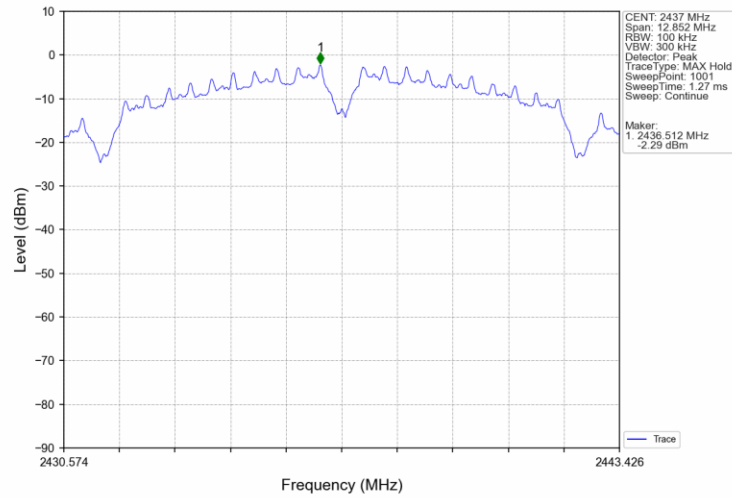


## 802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV

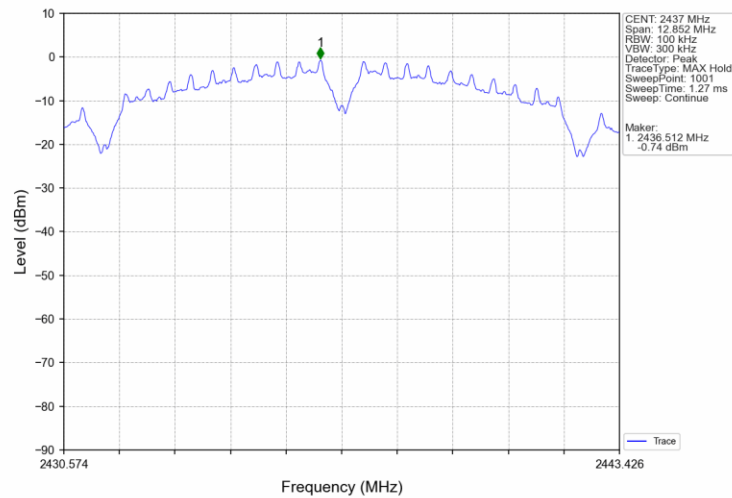




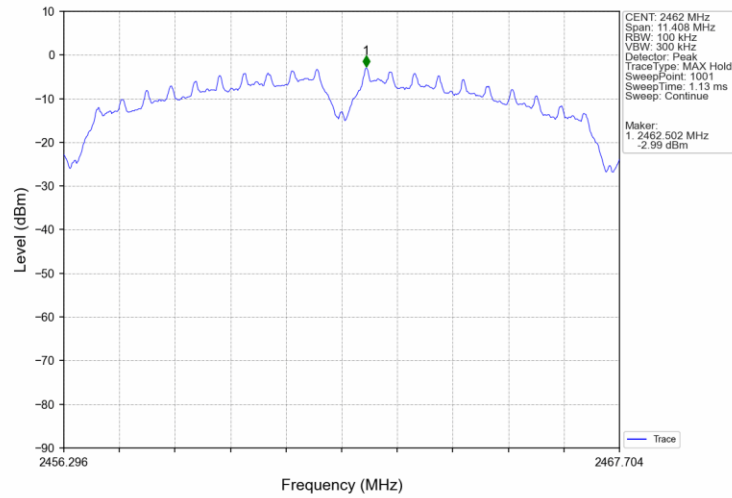
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



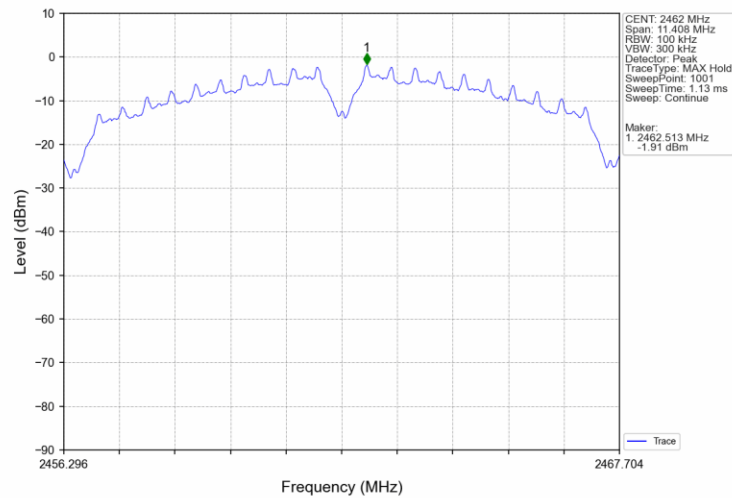
802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



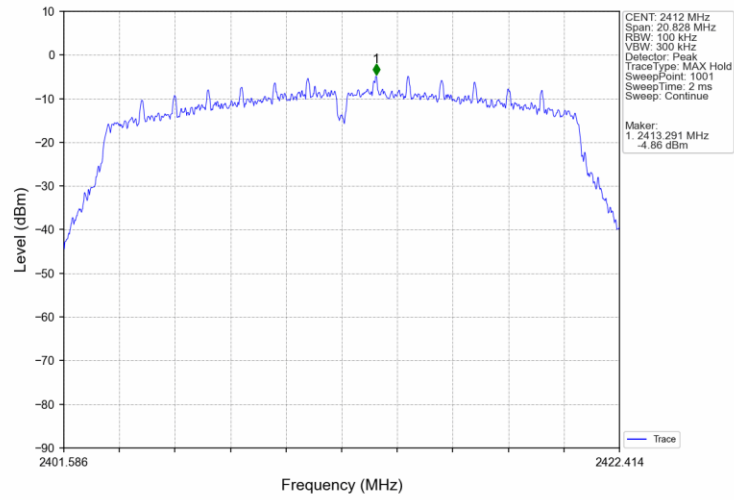
## 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



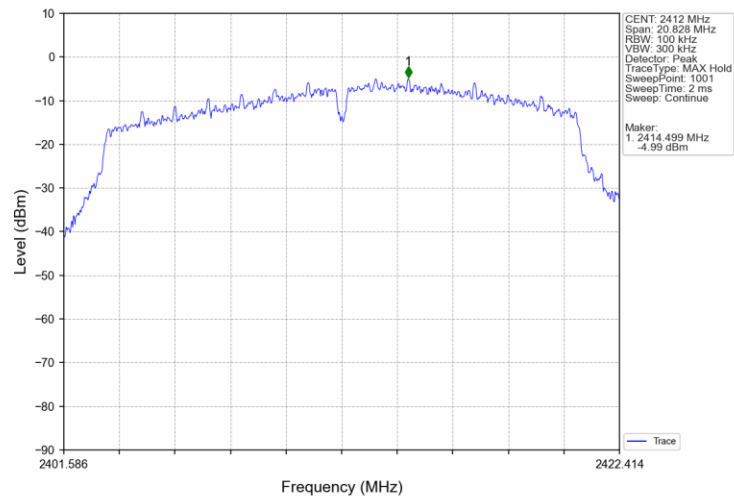
## 802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



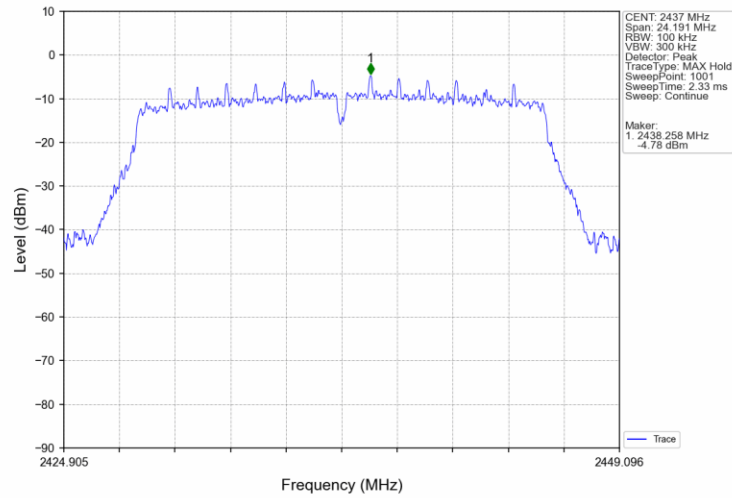
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



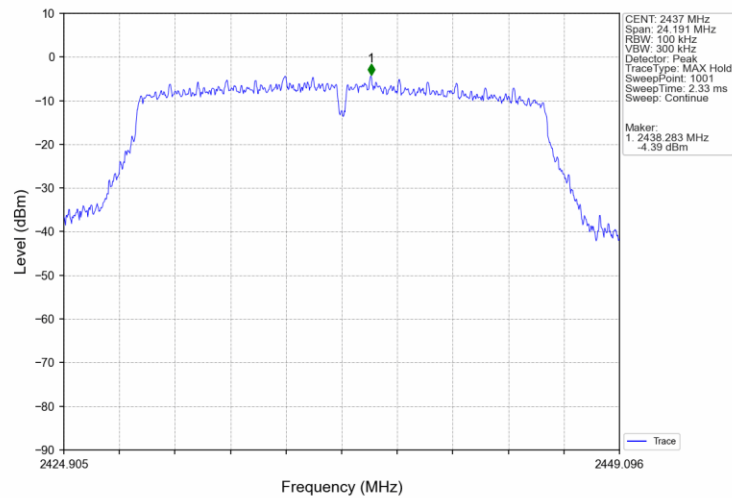
802.11n(HT20)\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



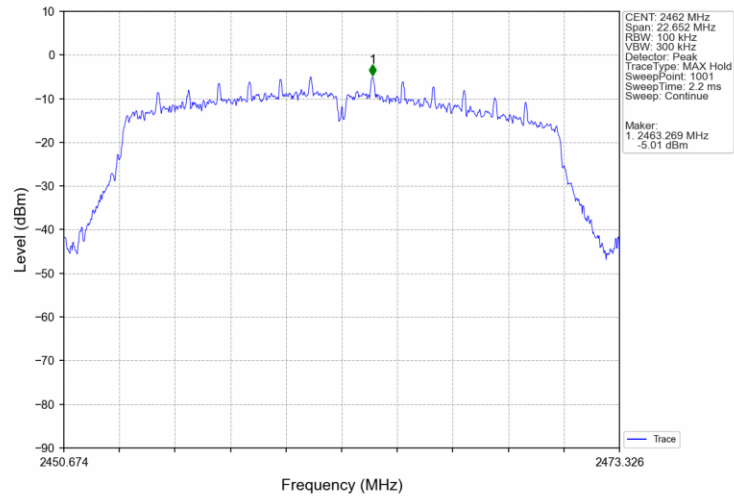
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



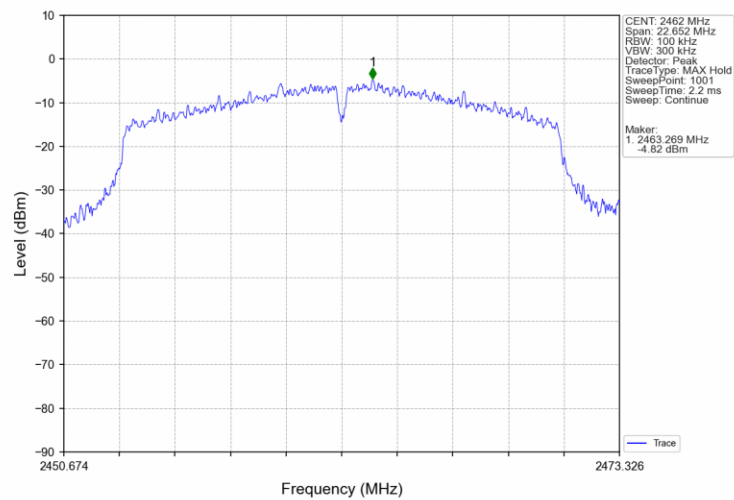
802.11n(HT20)\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



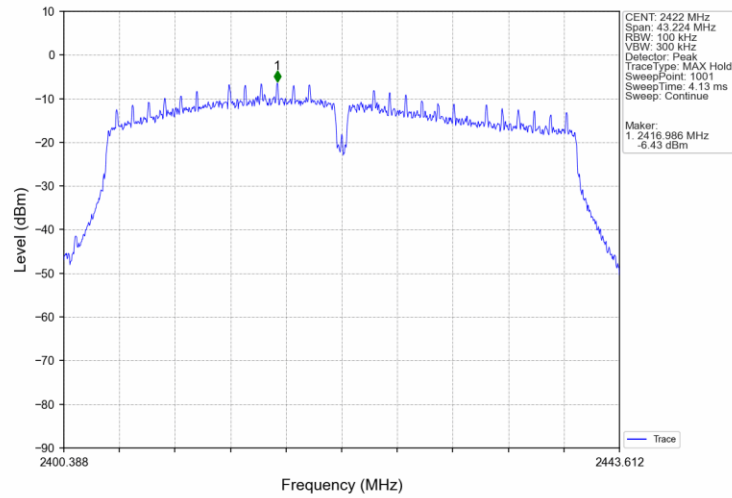
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



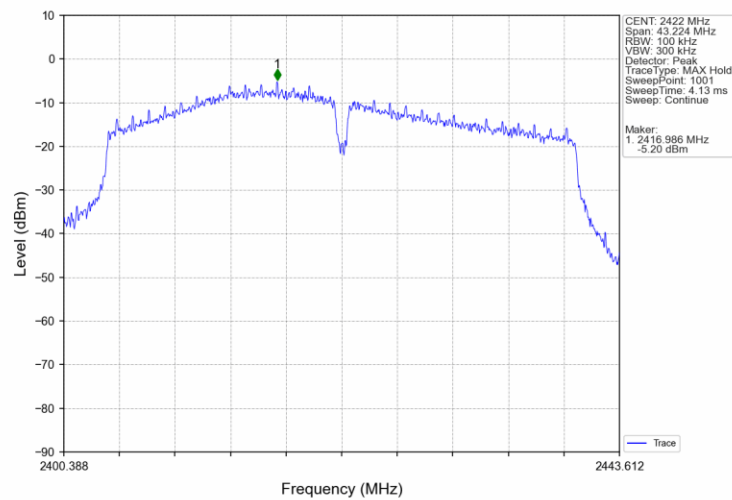
802.11n(HT20)\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



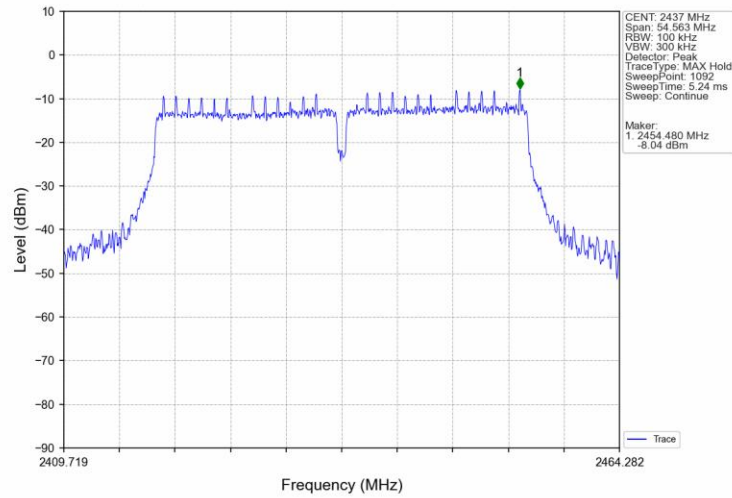
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



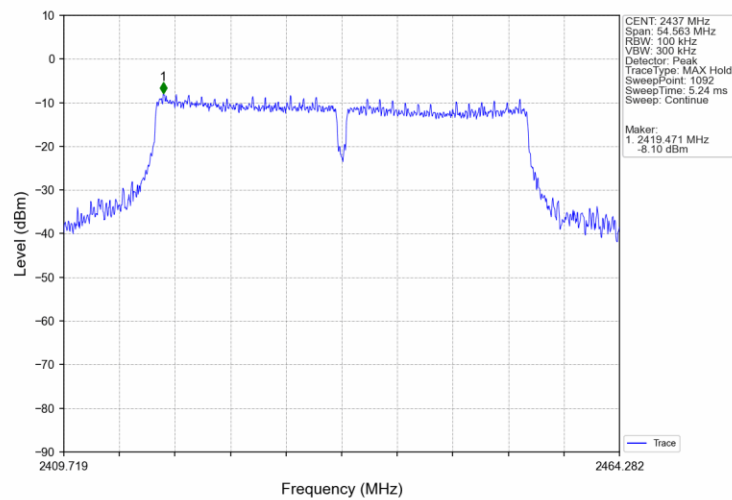
802.11n(HT40)\_LCH\_2422MHz\_Ant2 (SISO)\_NTNV



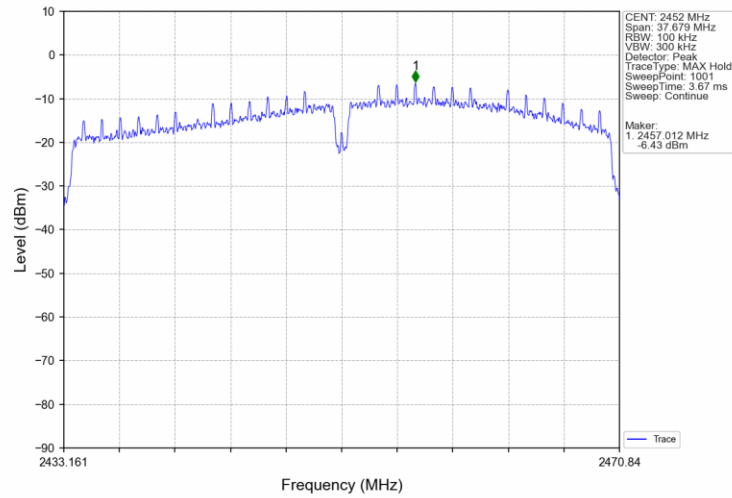
802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



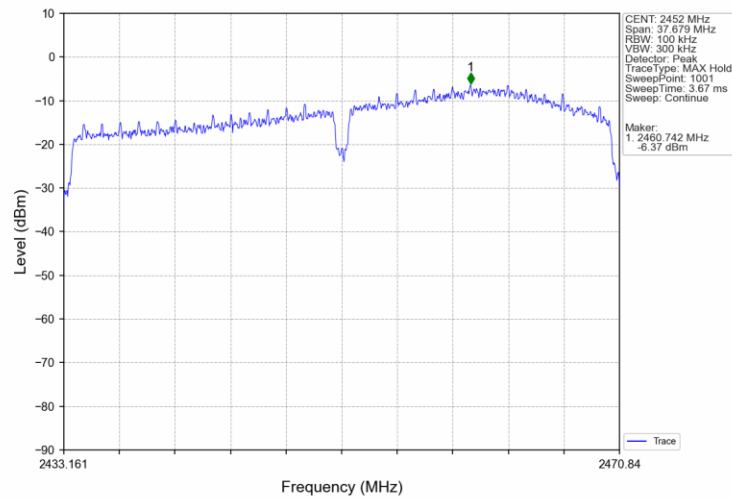
802.11n(HT40)\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



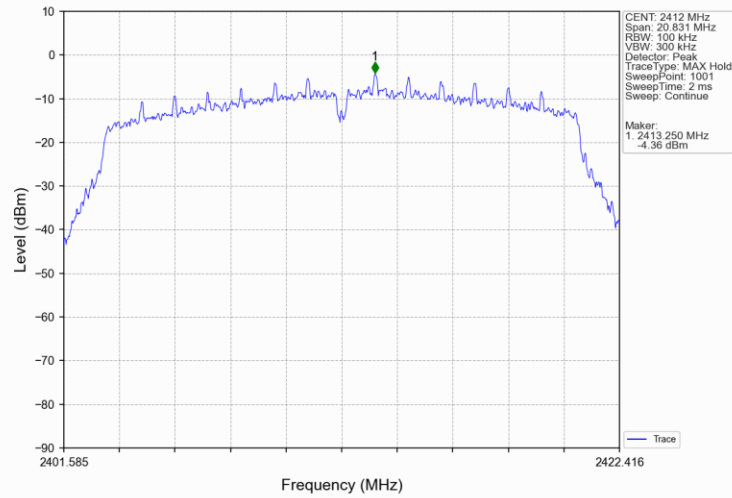
802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



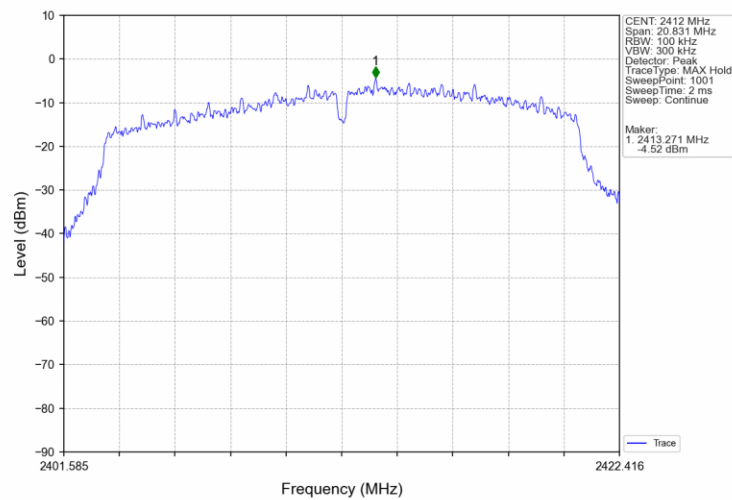
802.11n(HT40)\_HCH\_2452MHz\_Ant2 (SISO)\_NTNV



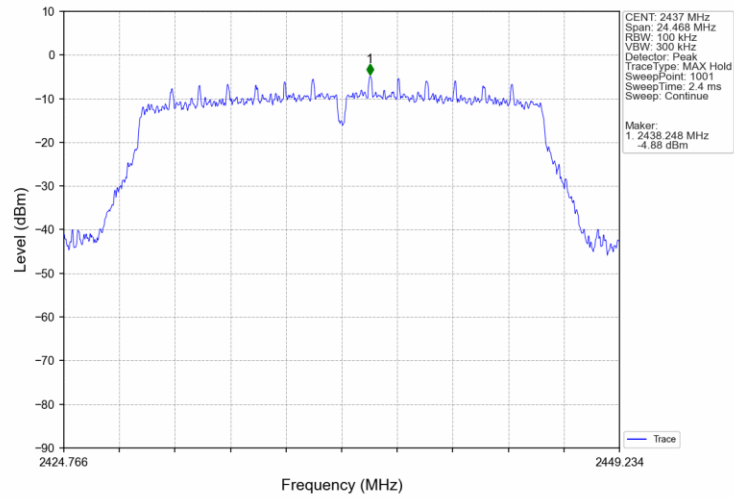
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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



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



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

