

## 1. Duty Cycle

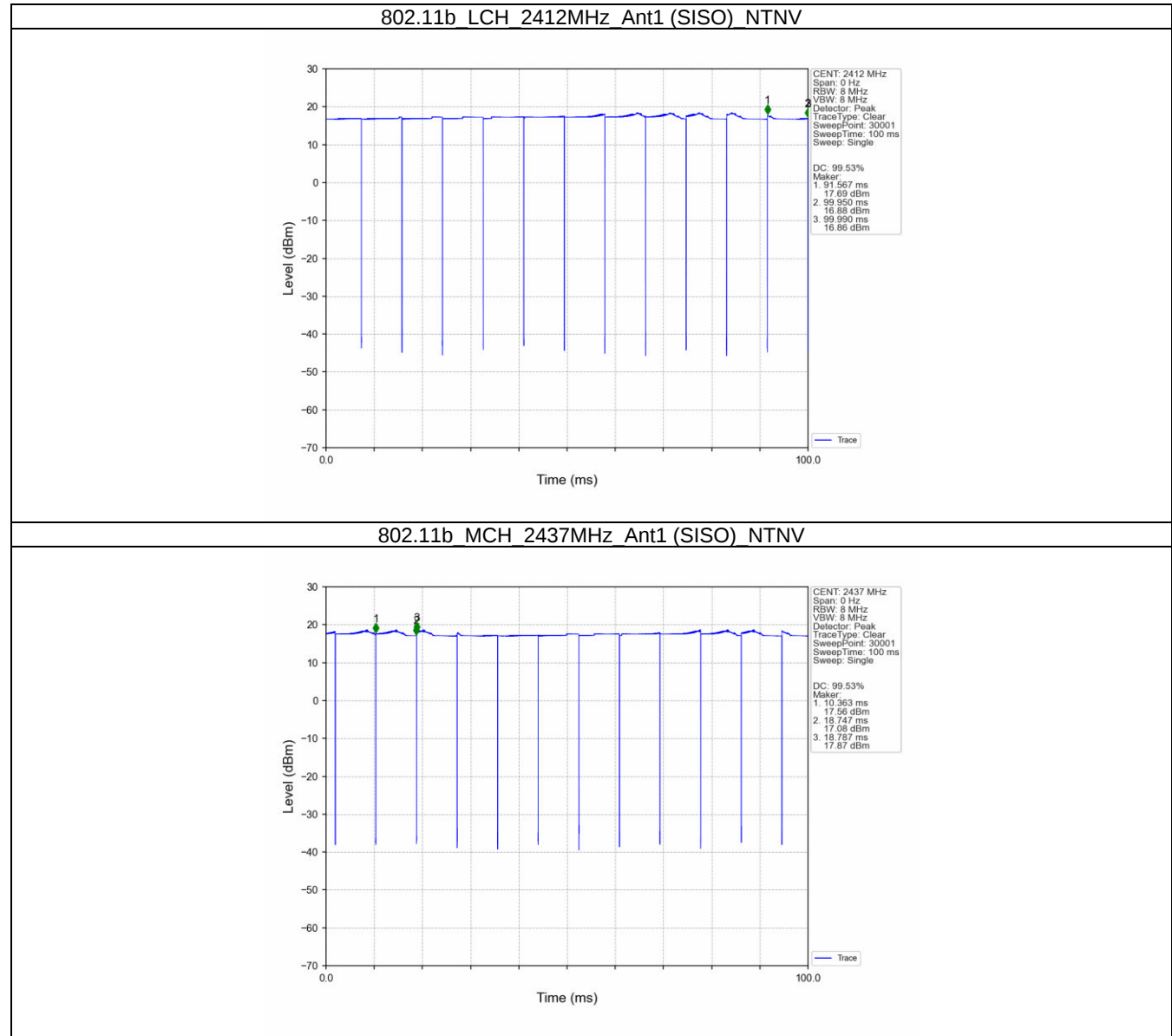
### 1.1 Test Result

#### 1.1.1 Ant1

| 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            | 8.383     | 8.423       | 99.53          | 0.02                              | 0.04                  |
|                |         | 2437            | 8.384     | 8.424       | 99.53          | 0.02                              | 0.04                  |
|                |         | 2462            | 8.383     | 8.423       | 99.53          | 0.02                              | 0.04                  |
| 802.11g        | SISO    | 2412            | 8.383     | 8.423       | 99.53          | 0.02                              | 0.04                  |
|                |         | 2437            | 8.384     | 8.424       | 99.53          | 0.02                              | 0.04                  |
|                |         | 2462            | 8.383     | 8.420       | 99.56          | 0.02                              | 0.00                  |
| 802.11n (HT20) | SISO    | 2412            | 1.289     | 1.333       | 96.70          | 0.15                              | 0.10                  |
|                |         | 2437            | 1.289     | 1.332       | 96.77          | 0.14                              | 0.07                  |
|                |         | 2462            | 1.290     | 1.332       | 96.85          | 0.14                              | 0.04                  |
| 802.11n (HT40) | SISO    | 2422            | 0.636     | 0.679       | 93.67          | 0.28                              | 0.04                  |
|                |         | 2437            | 0.636     | 0.680       | 93.53          | 0.29                              | 0.07                  |
|                |         | 2452            | 0.636     | 0.680       | 93.53          | 0.29                              | 0.04                  |

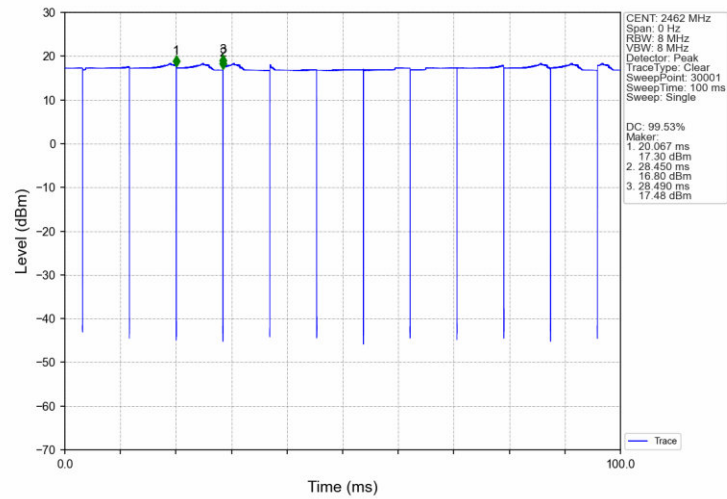
## 1.2 Test Graph

### 1.2.1 Ant1

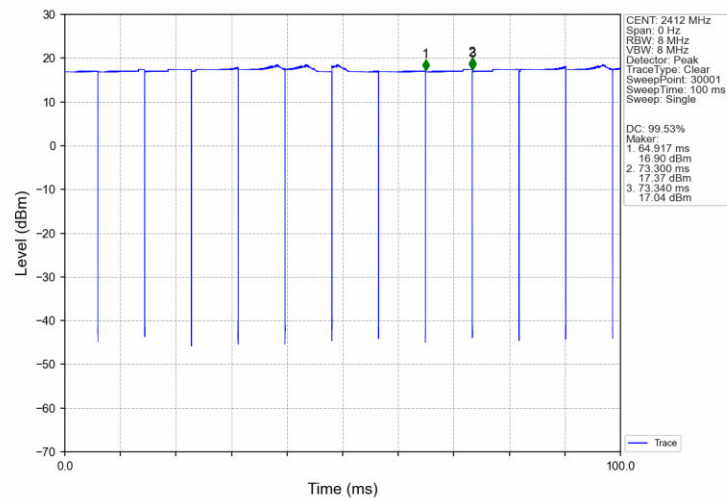




## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

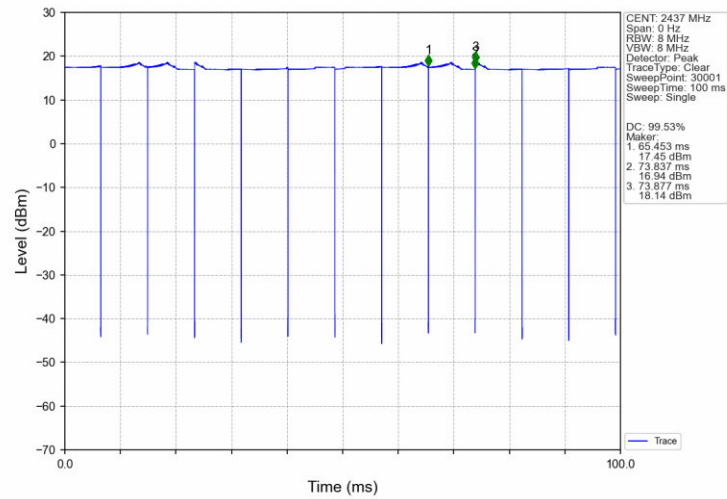


## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

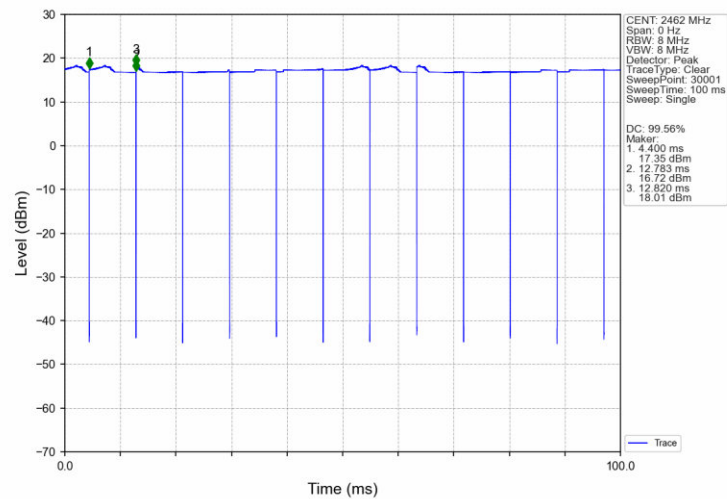




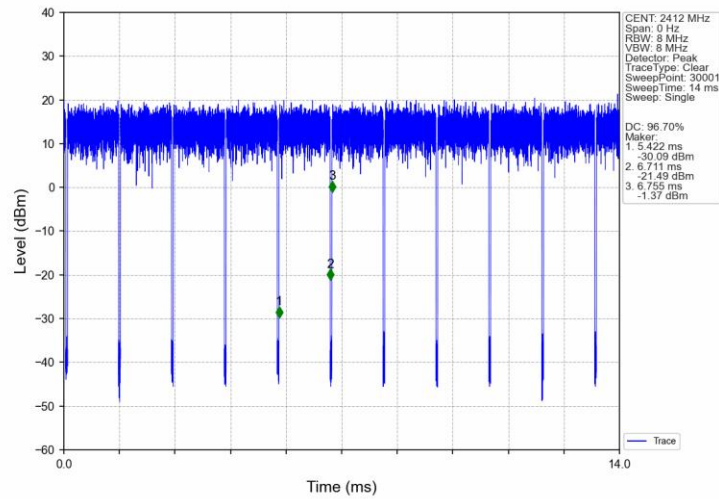
## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



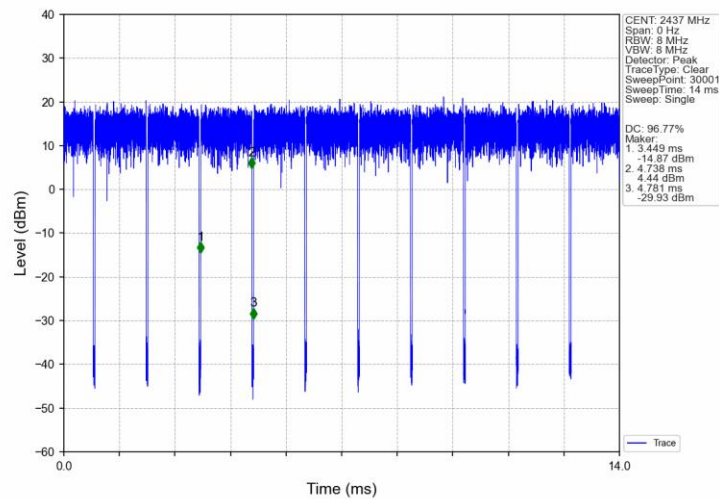
## 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



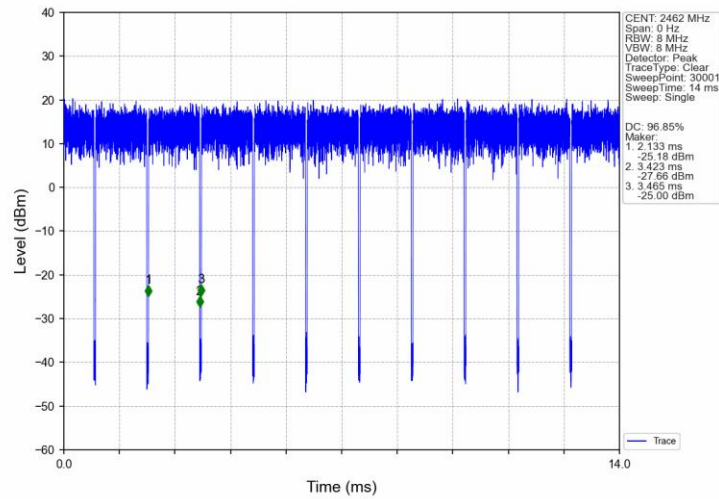
## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



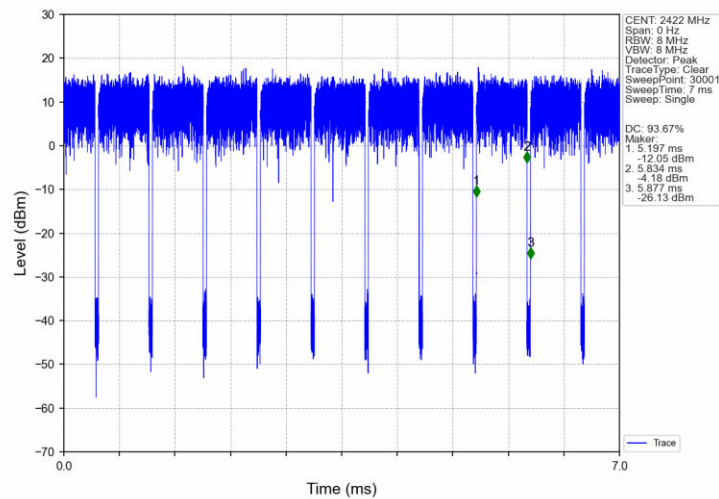
## 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



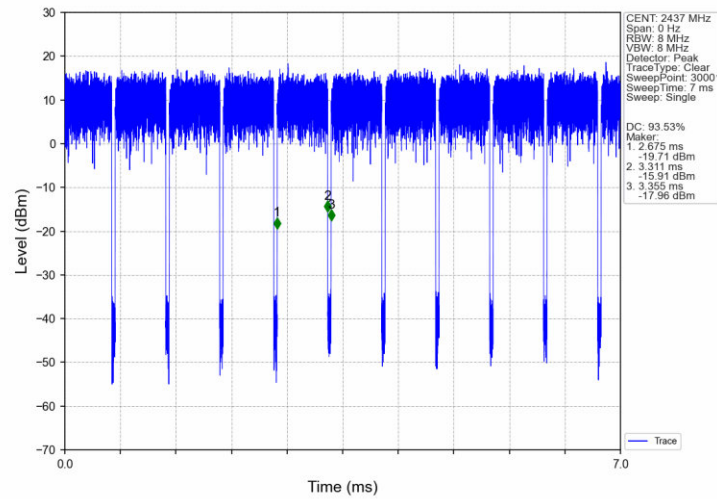
## 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



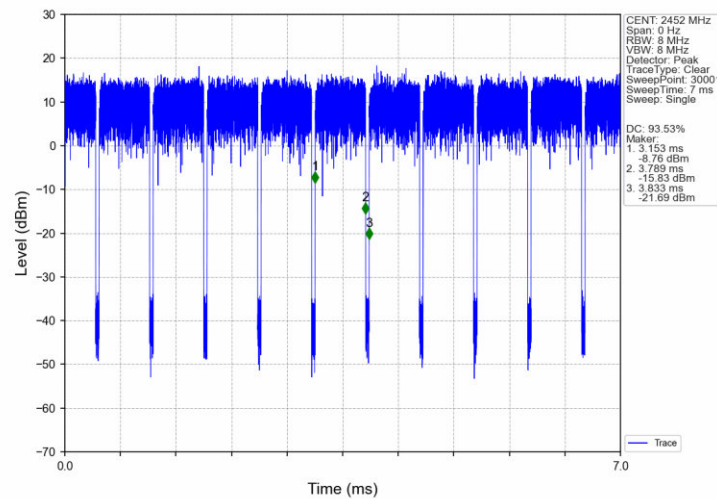
## 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



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



## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

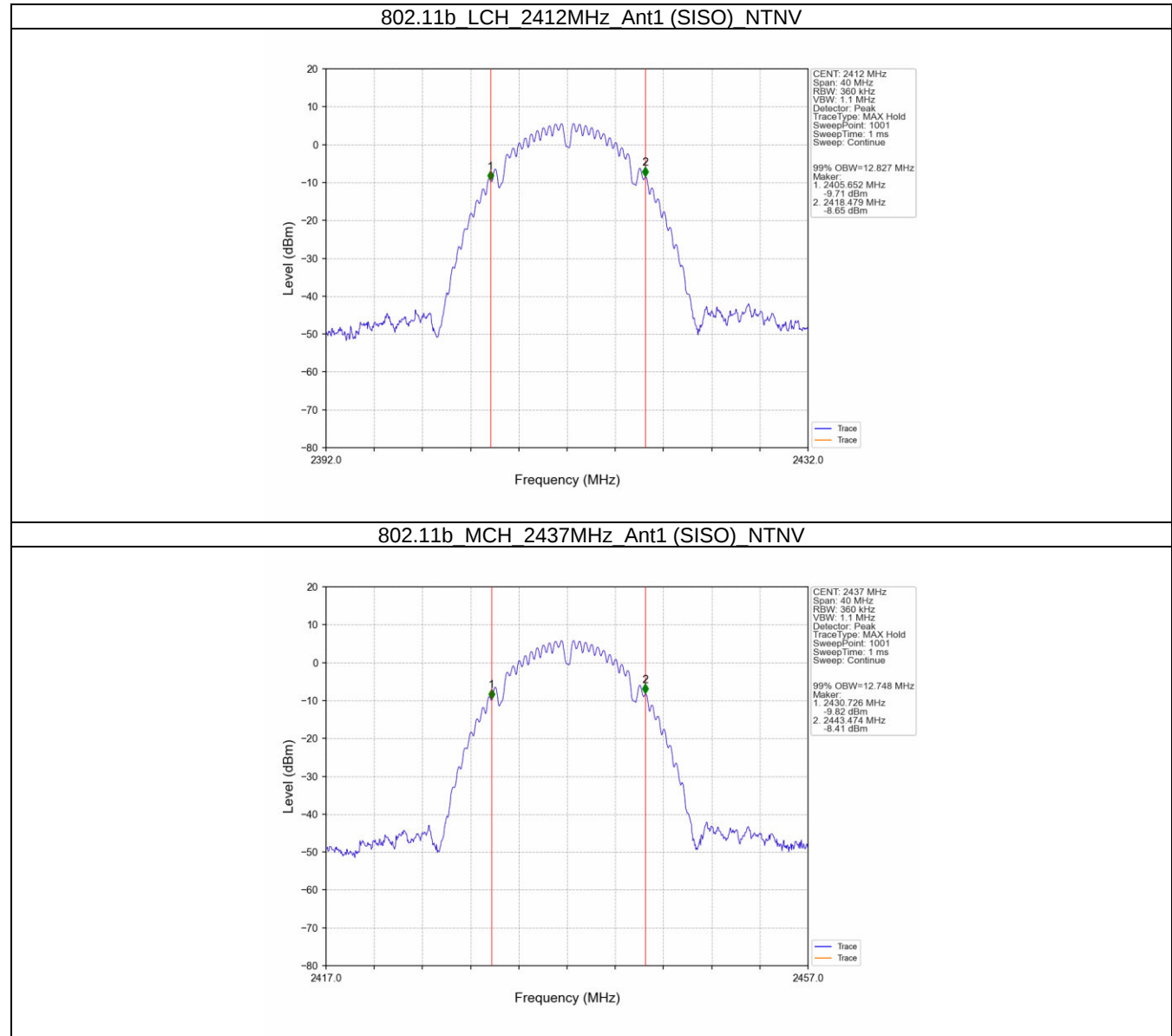
| Mode           | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|----------------|---------|-----------------|-----|------------------------------|-------|---------|
|                |         |                 |     | Result                       | Limit |         |
| 802.11b        | SISO    | 2412            | 1   | 12.827                       | /     | Pass    |
|                |         | 2437            | 1   | 12.748                       | /     | Pass    |
|                |         | 2462            | 1   | 12.766                       | /     | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 12.823                       | /     | Pass    |
|                |         | 2437            | 1   | 12.747                       | /     | Pass    |
|                |         | 2462            | 1   | 12.763                       | /     | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 18.261                       | /     | Pass    |
|                |         | 2437            | 1   | 18.241                       | /     | Pass    |
|                |         | 2462            | 1   | 18.357                       | /     | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 36.728                       | /     | Pass    |
|                |         | 2437            | 1   | 36.619                       | /     | Pass    |
|                |         | 2452            | 1   | 36.758                       | /     | Pass    |

#### 2.1.2 6dB BW

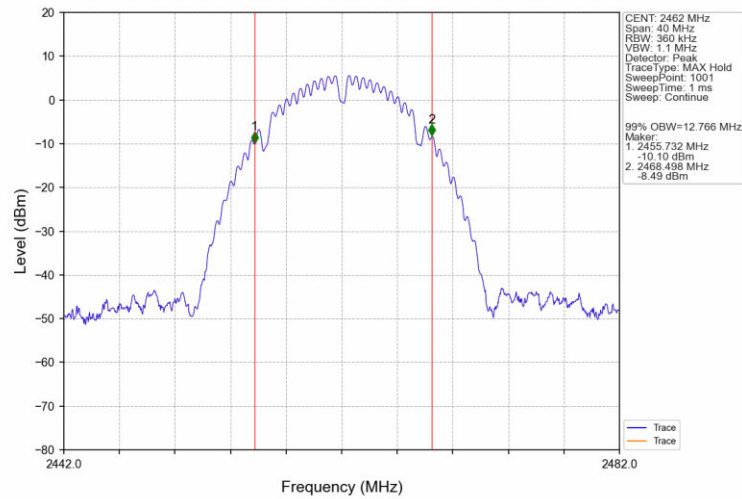
| Mode           | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
|                |         |                 |     | Result              | Limit      |         |
| 802.11b        | SISO    | 2412            | 1   | 8.087               | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 8.087               | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 8.075               | $\geq 0.5$ | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 8.095               | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 8.104               | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 8.106               | $\geq 0.5$ | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 15.165              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 15.162              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 15.337              | $\geq 0.5$ | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 35.166              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 35.146              | $\geq 0.5$ | Pass    |
|                |         | 2452            | 1   | 35.138              | $\geq 0.5$ | Pass    |

## 2.2 Test Graph

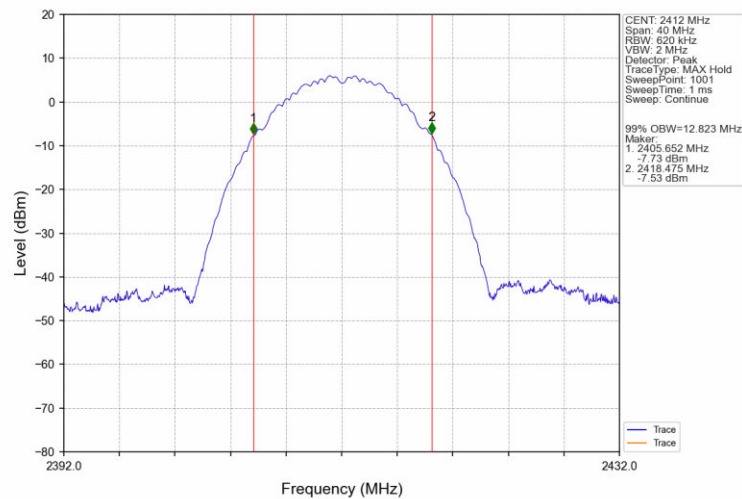
### 2.2.1 OBW



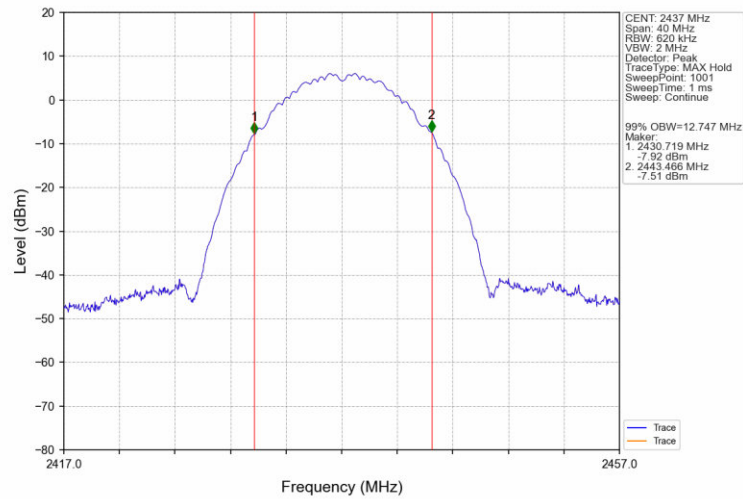
## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



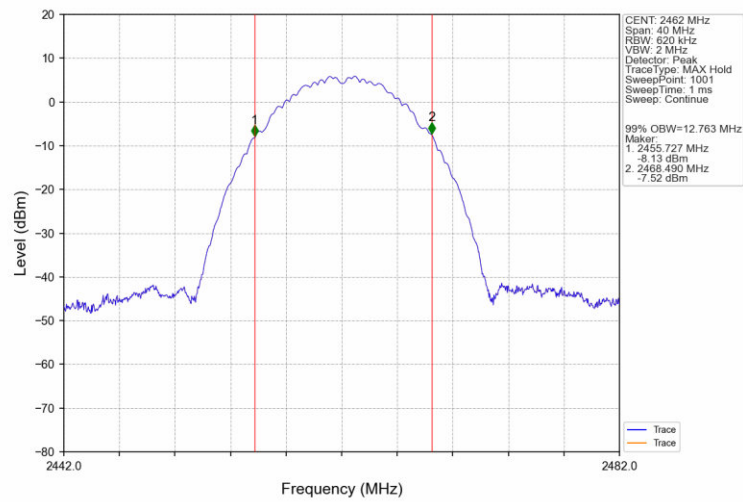
## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



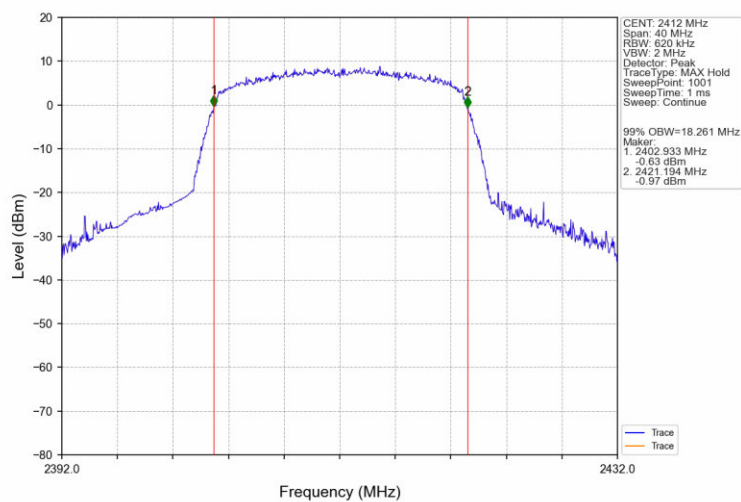
## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



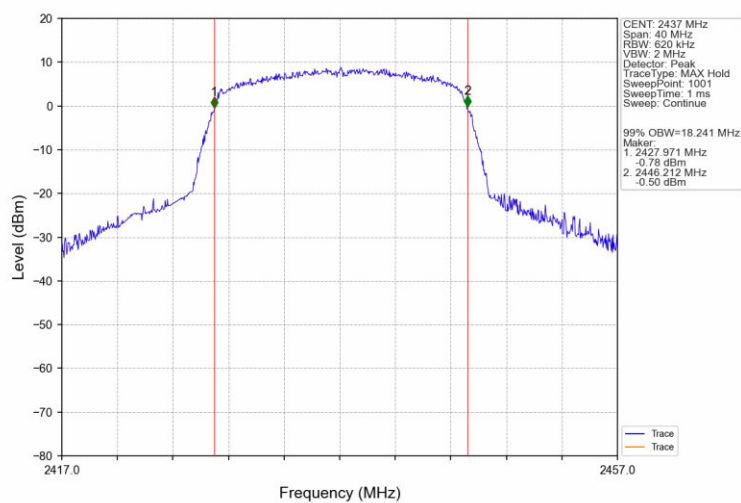
## 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



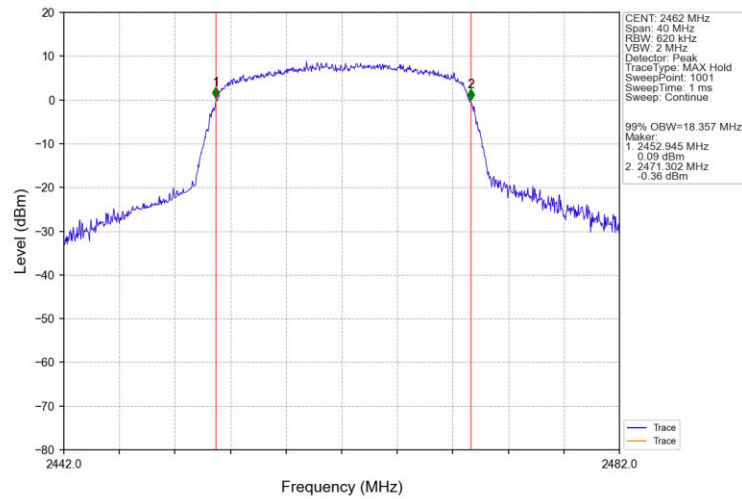
## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



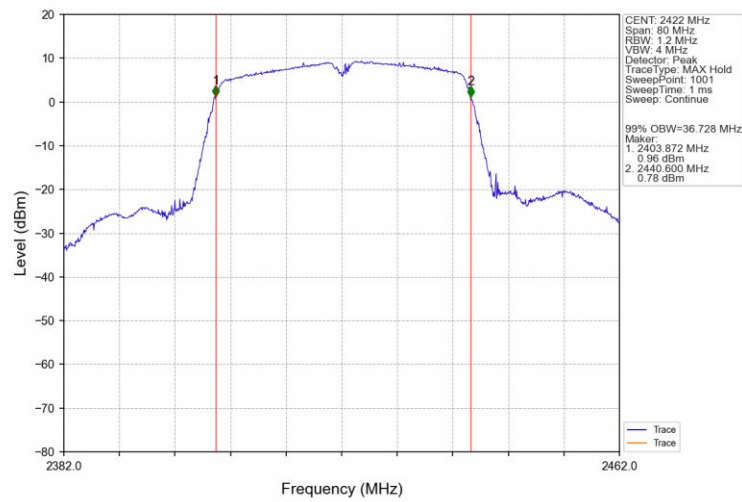
## 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



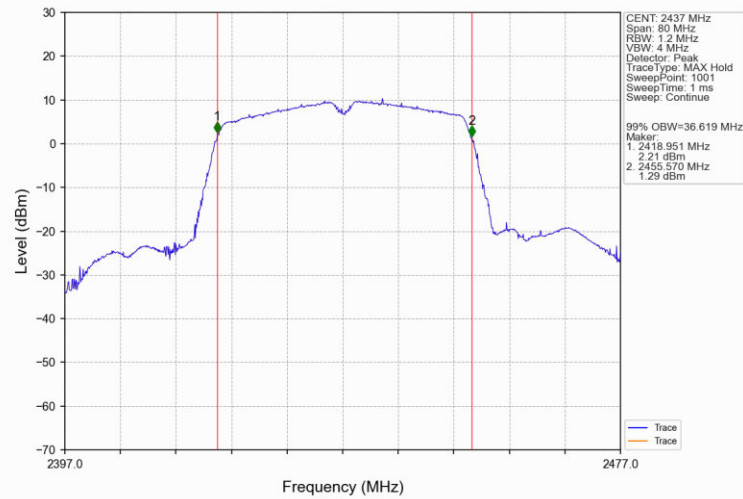
## 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



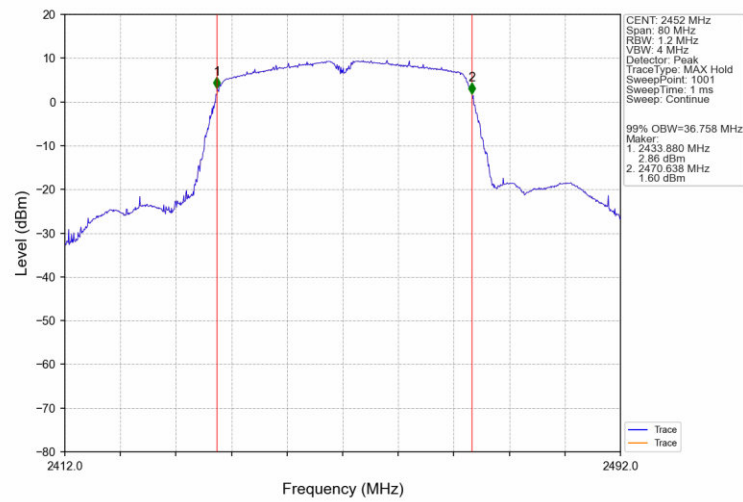
## 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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

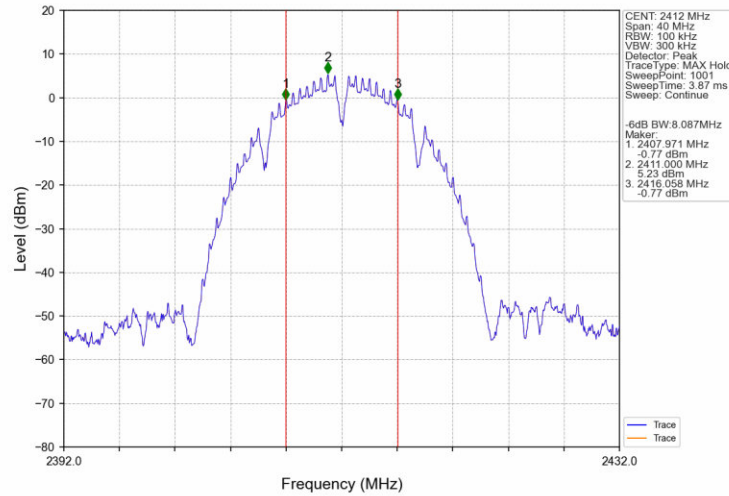


802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV

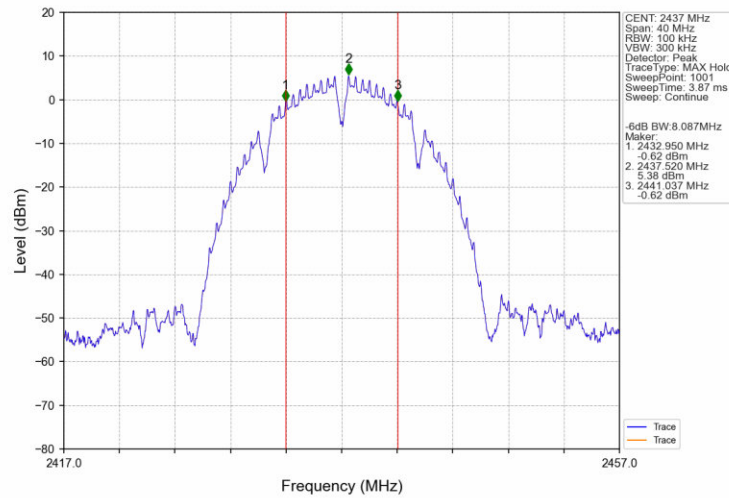


## 2.2.2 6dB BW

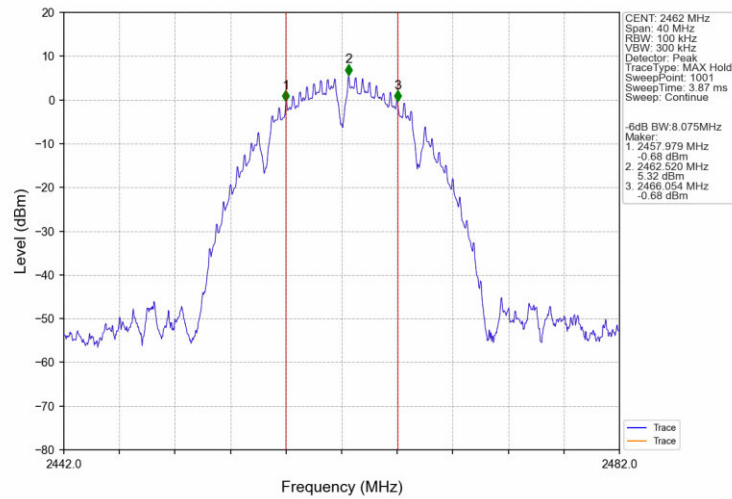
802.11b LCH 2412MHz Ant1 (SISO) NTN



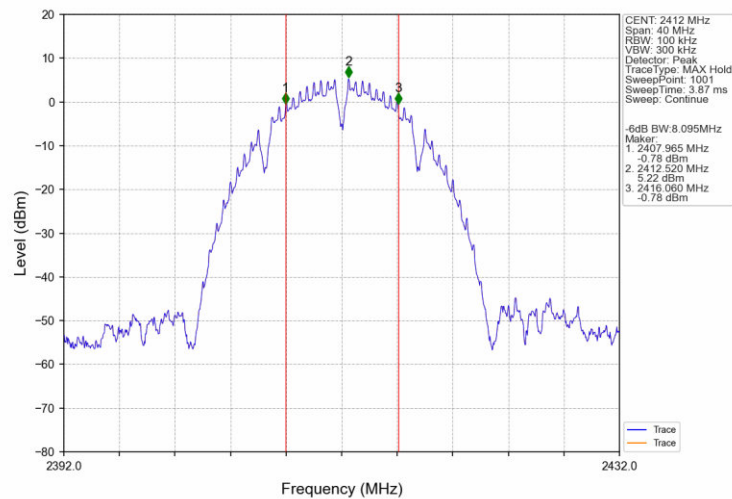
802.11b MCH 2437MHz Ant1 (SISO) NTN



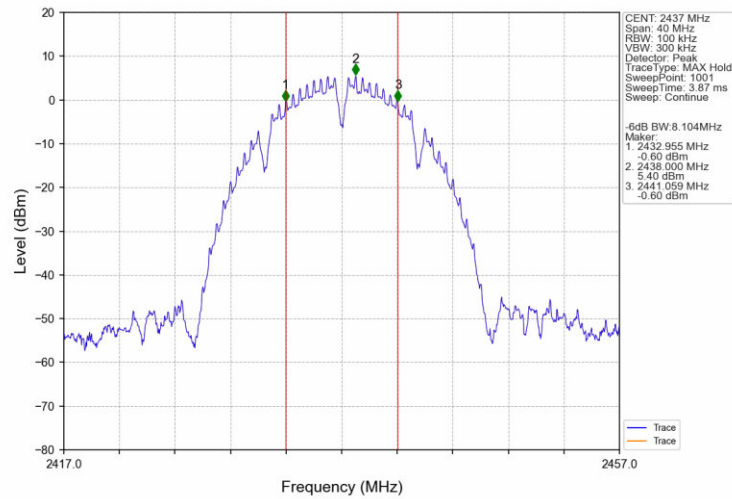
## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



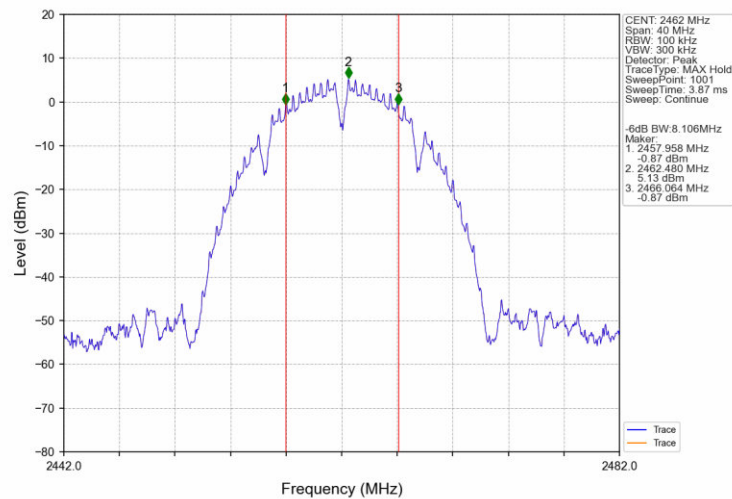
## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



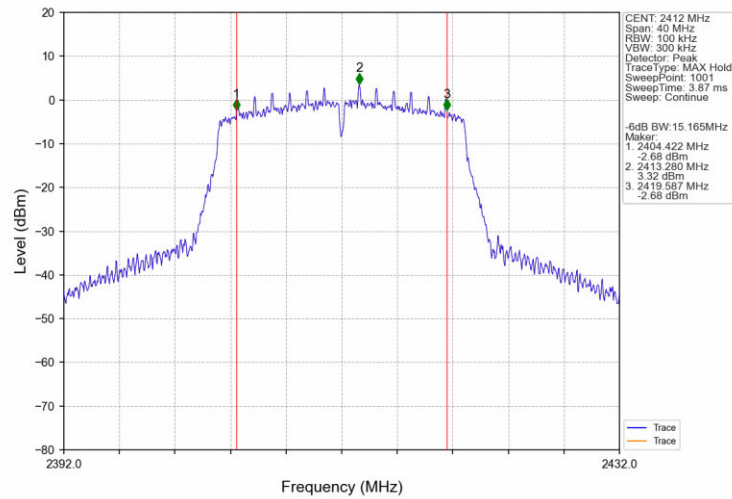
## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



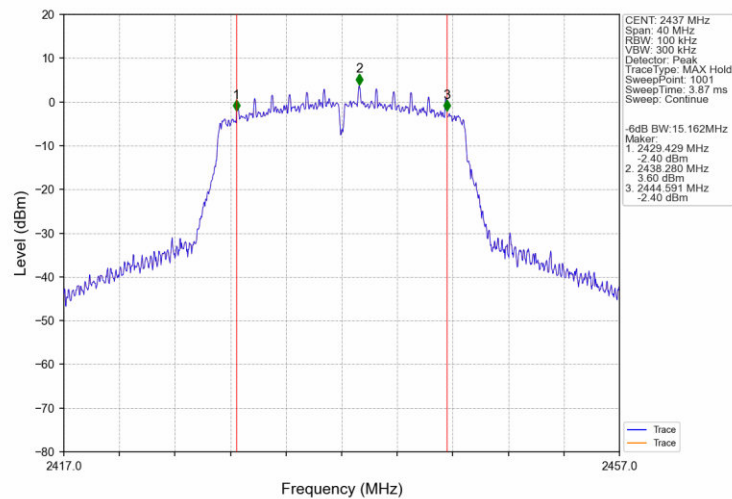
## 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



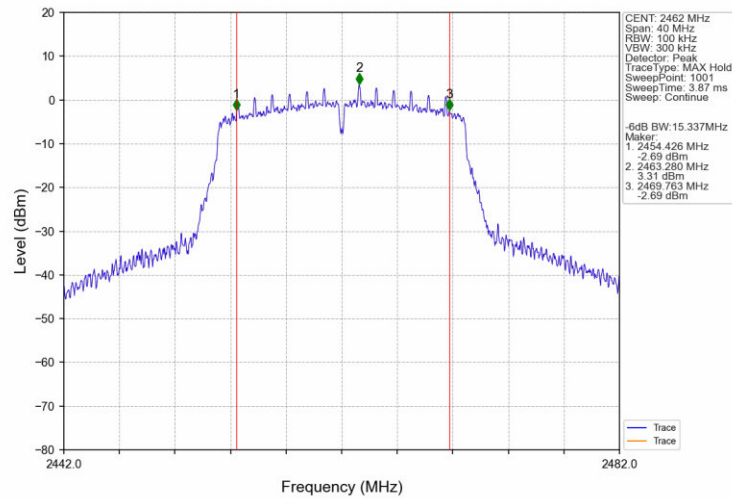
## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



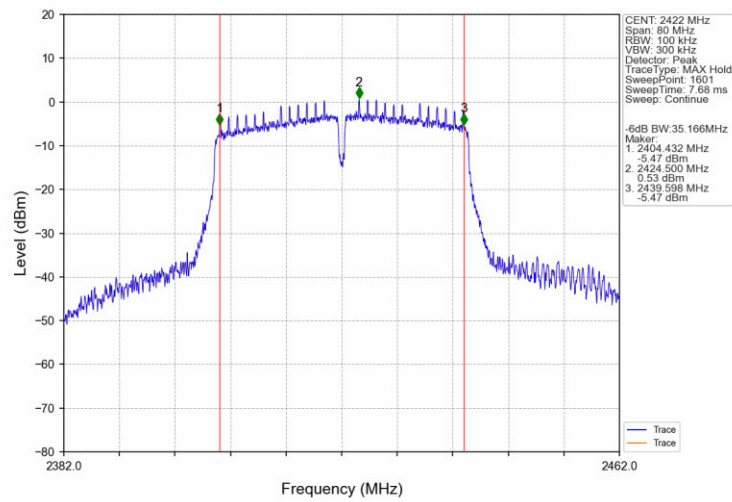
## 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



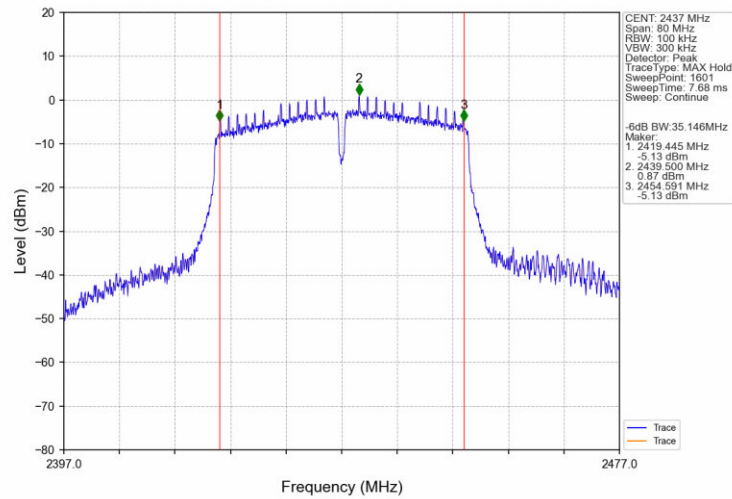
## 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



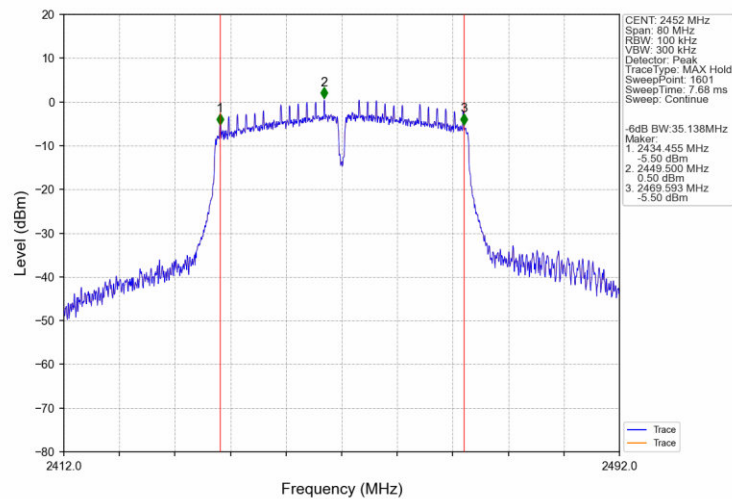
## 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



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



### 3. Maximum Conducted Output Power

#### 3.1 Test Result

##### 3.1.1 Power

| Mode           | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|----------------|---------|-----------------|-------------------------------------------|-------|---------|
|                |         |                 | ANT1                                      | Limit |         |
| 802.11b        | SISO    | 2412            | 14.19                                     | <=30  | Pass    |
|                |         | 2437            | 14.40                                     | <=30  | Pass    |
|                |         | 2462            | 14.18                                     | <=30  | Pass    |
| 802.11g        | SISO    | 2412            | 11.72                                     | <=30  | Pass    |
|                |         | 2437            | 11.79                                     | <=30  | Pass    |
|                |         | 2462            | 12.20                                     | <=30  | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 16.55                                     | <=30  | Pass    |
|                |         | 2437            | 16.74                                     | <=30  | Pass    |
|                |         | 2462            | 16.69                                     | <=30  | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 17.38                                     | <=30  | Pass    |
|                |         | 2437            | 17.46                                     | <=30  | Pass    |
|                |         | 2452            | 17.26                                     | <=30  | Pass    |

## 4. Maximum Power Spectral Density

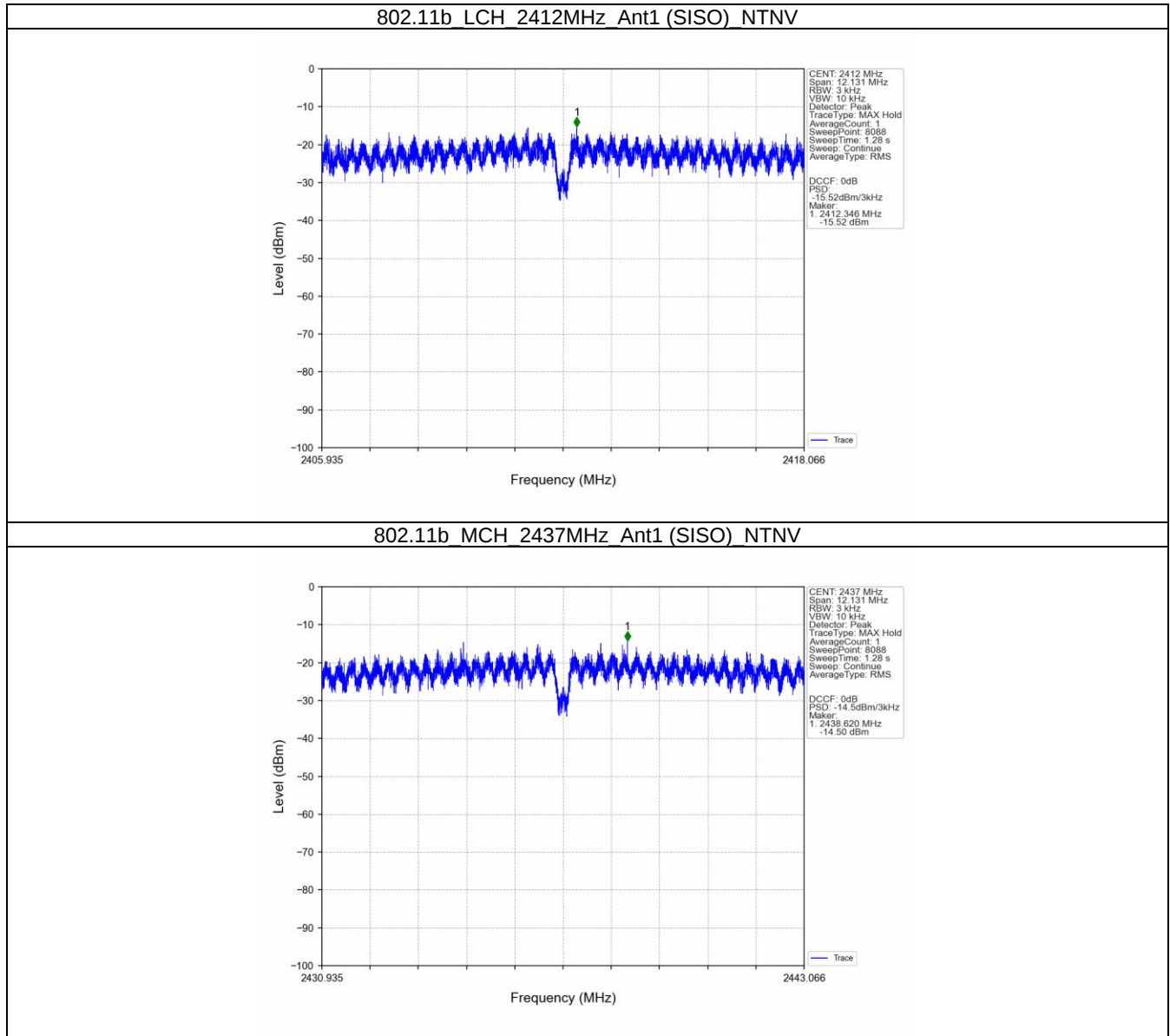
### 4.1 Test Result

#### 4.1.1 PSD

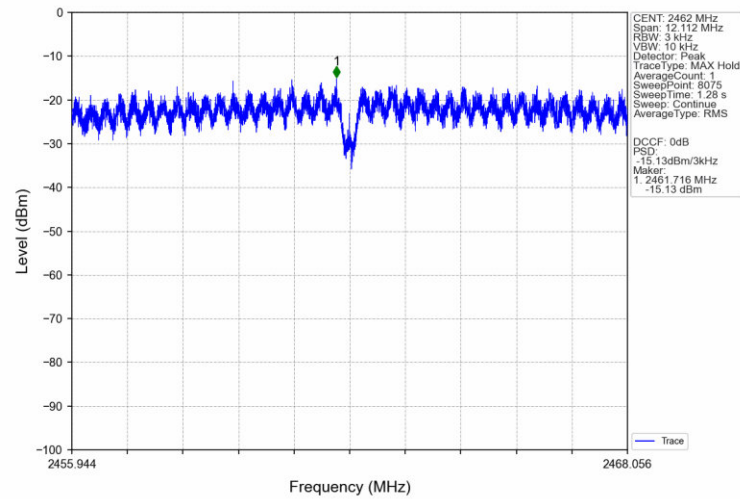
| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       | Verdict |
|----------------|---------|-----------------|------------------------|-------|---------|
|                |         |                 | ANT1                   | Limit |         |
| 802.11b        | SISO    | 2412            | -15.52                 | <=8   | Pass    |
|                |         | 2437            | -14.50                 | <=8   | Pass    |
|                |         | 2462            | -15.13                 | <=8   | Pass    |
| 802.11g        | SISO    | 2412            | -13.28                 | <=8   | Pass    |
|                |         | 2437            | -13.10                 | <=8   | Pass    |
|                |         | 2462            | -12.23                 | <=8   | Pass    |
| 802.11n (HT20) | SISO    | 2412            | -15.35                 | <=8   | Pass    |
|                |         | 2437            | -14.58                 | <=8   | Pass    |
|                |         | 2462            | -15.75                 | <=8   | Pass    |
| 802.11n (HT40) | SISO    | 2422            | -17.88                 | <=8   | Pass    |
|                |         | 2437            | -15.71                 | <=8   | Pass    |
|                |         | 2452            | -17.72                 | <=8   | Pass    |

## 4.2 Test Graph

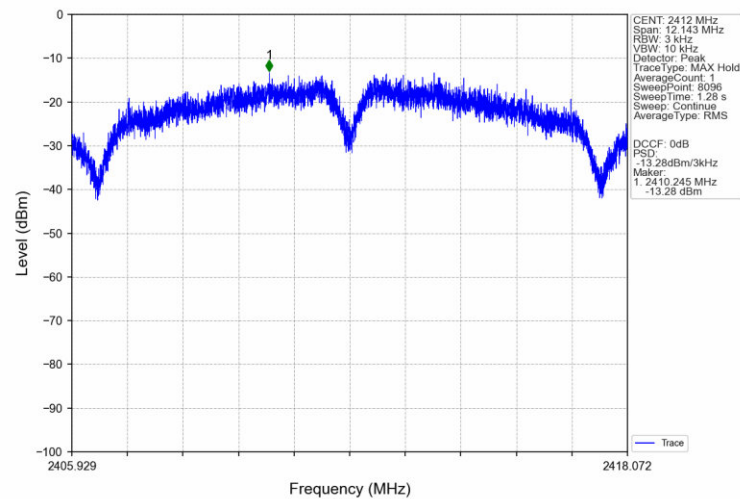
### 4.2.1 PSD



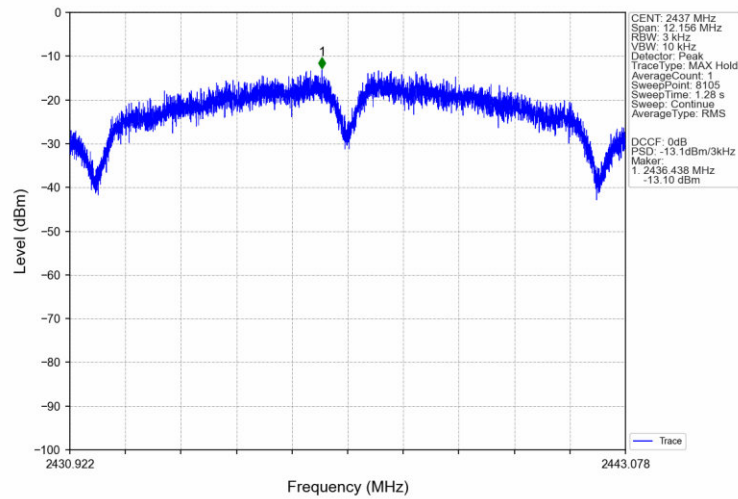
## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



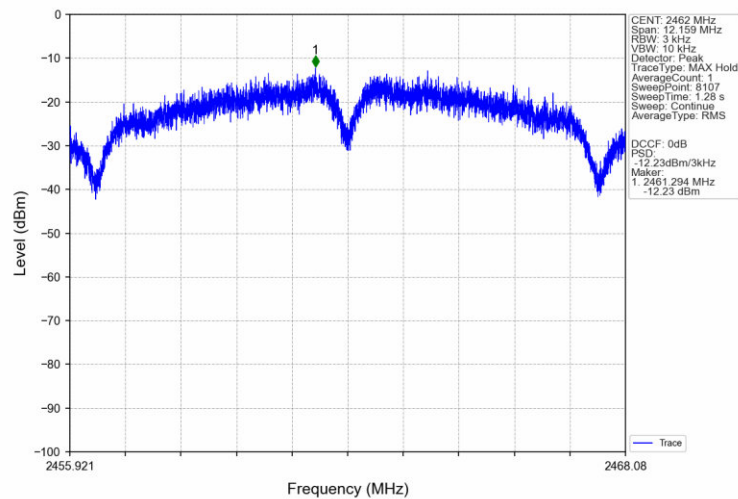
## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



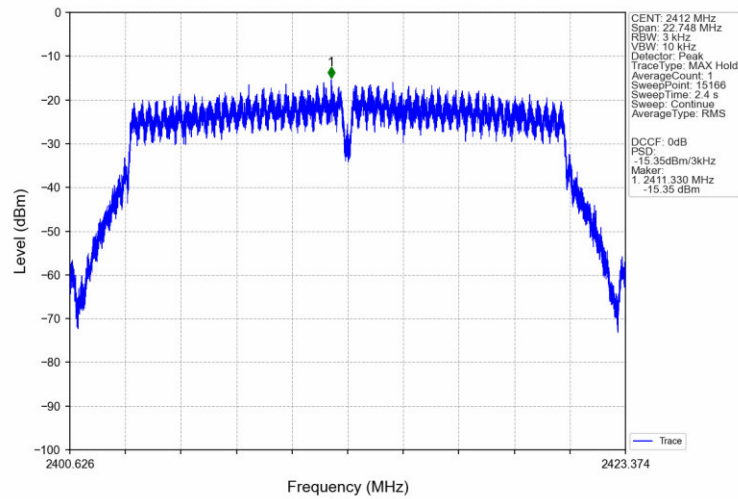
## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



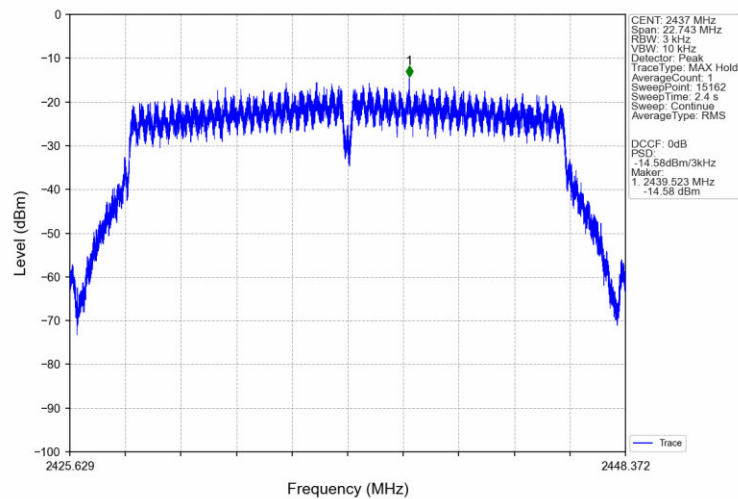
## 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



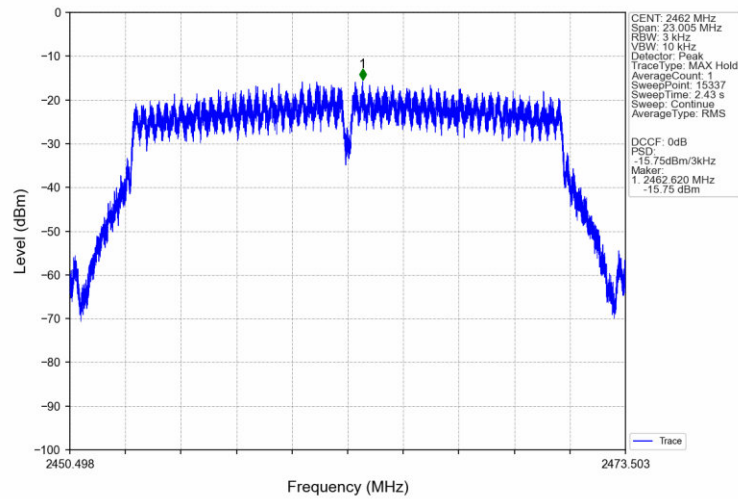
## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



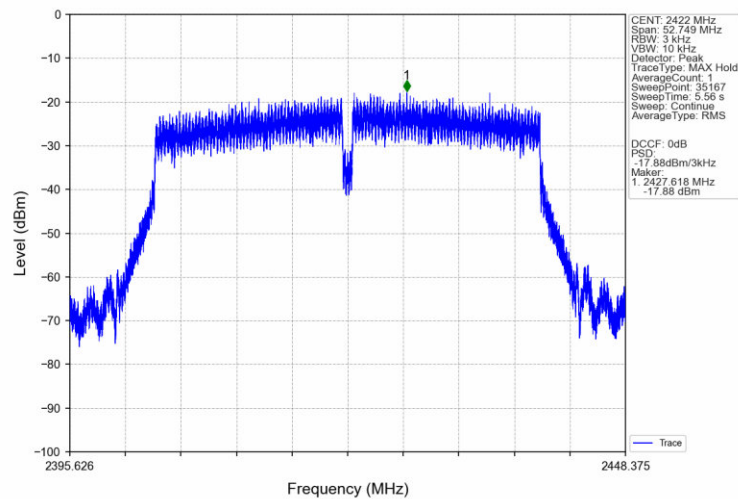
## 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



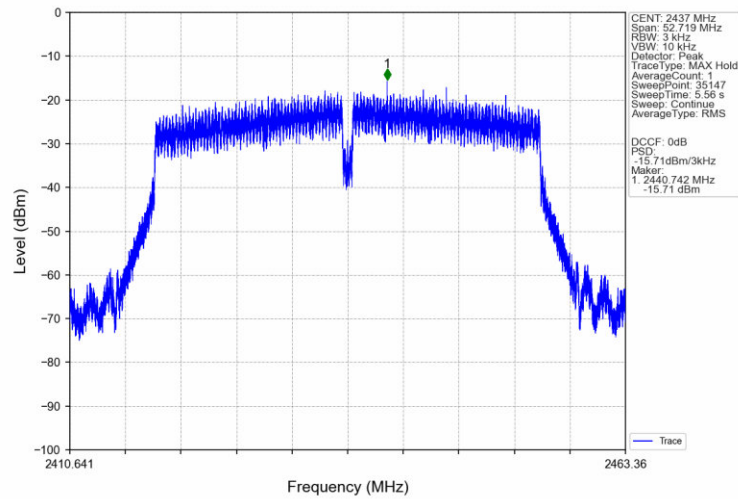
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



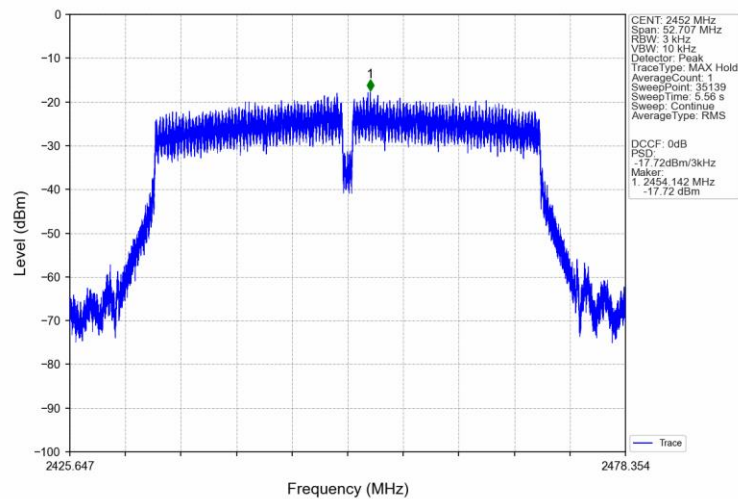
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



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



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

### 5.1 Test Result

#### 5.1.1 Ref

| Mode           | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b        | SISO    | 2412            | 1   | 5.30                     |
|                |         | 2437            | 1   | 5.32                     |
|                |         | 2462            | 1   | 5.19                     |
| 802.11g        | SISO    | 2412            | 1   | 5.60                     |
|                |         | 2437            | 1   | 5.47                     |
|                |         | 2462            | 1   | 5.20                     |
| 802.11n (HT20) | SISO    | 2412            | 1   | 3.27                     |
|                |         | 2437            | 1   | 3.46                     |
|                |         | 2462            | 1   | 3.24                     |
| 802.11n (HT40) | SISO    | 2422            | 1   | 0.54                     |
|                |         | 2437            | 1   | 0.86                     |
|                |         | 2452            | 1   | 0.49                     |

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

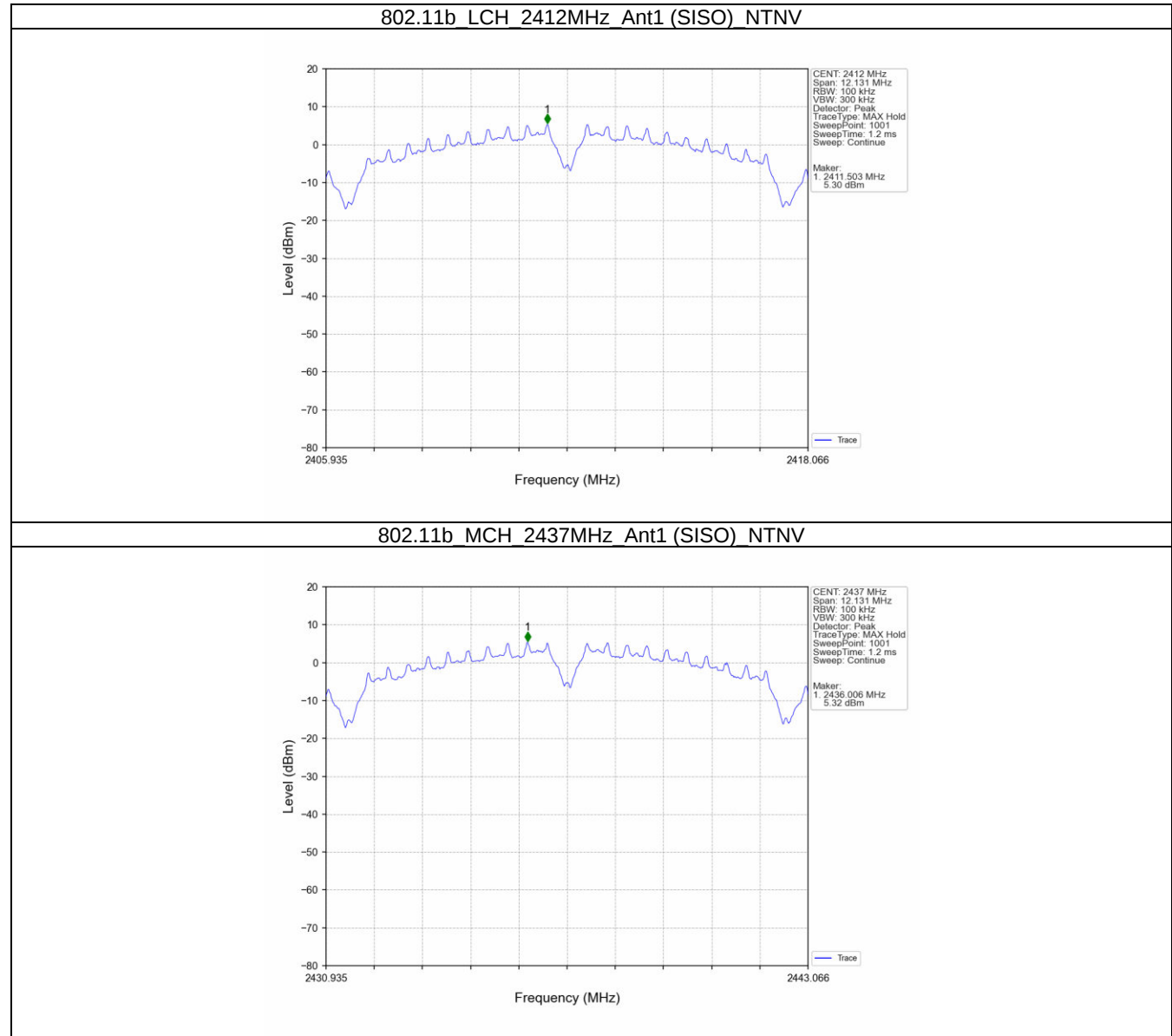
#### 5.1.2 CSE

| Mode           | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b        | SISO    | 2412            | 1   | 5.30                     | -14.70      | Pass    |
|                |         | 2437            | 1   | 5.32                     | -14.68      | Pass    |
|                |         | 2462            | 1   | 5.19                     | -14.81      | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 5.60                     | -14.40      | Pass    |
|                |         | 2437            | 1   | 5.47                     | -14.53      | Pass    |
|                |         | 2462            | 1   | 5.20                     | -14.80      | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 3.27                     | -16.73      | Pass    |
|                |         | 2437            | 1   | 3.46                     | -16.54      | Pass    |
|                |         | 2462            | 1   | 3.24                     | -16.76      | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 0.54                     | -19.46      | Pass    |
|                |         | 2437            | 1   | 0.86                     | -19.14      | Pass    |
|                |         | 2452            | 1   | 0.49                     | -19.51      | Pass    |

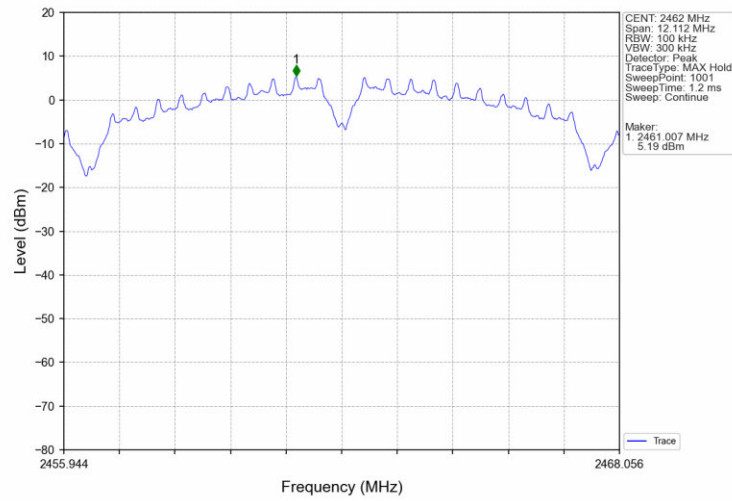
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

## 5.2 Test Graph

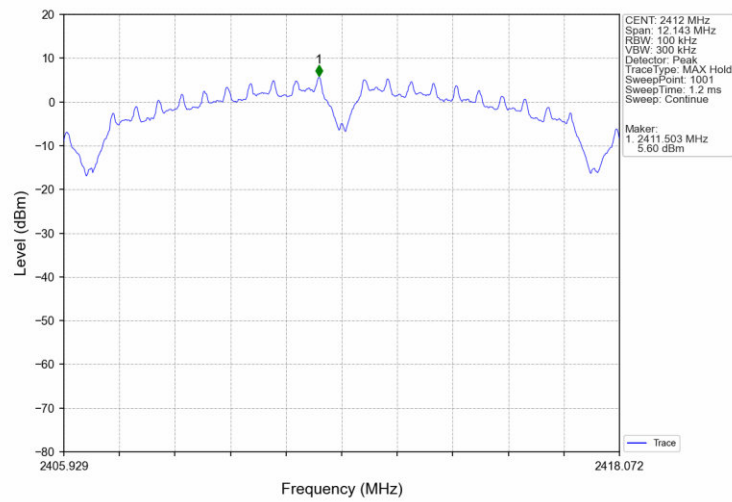
### 5.2.1 Ref



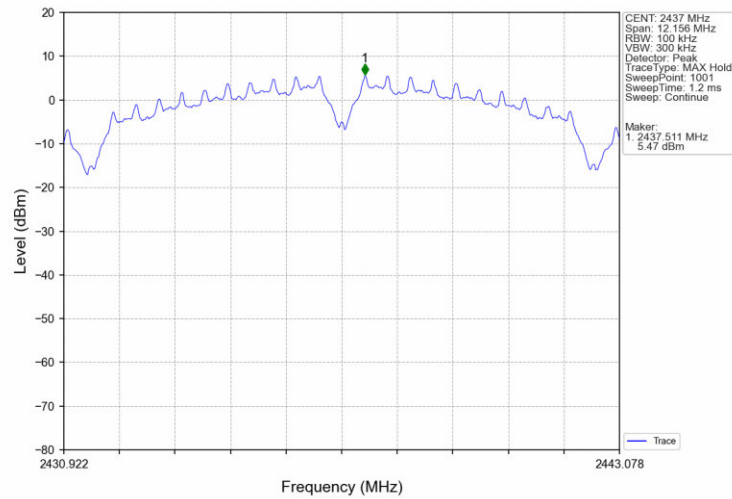
## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



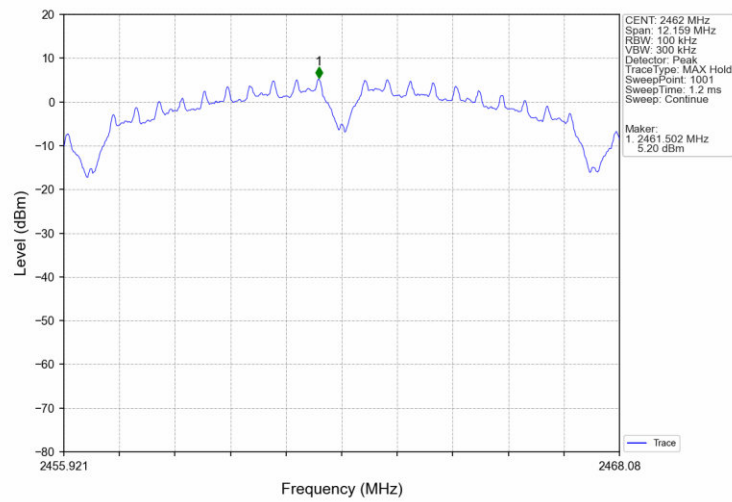
## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



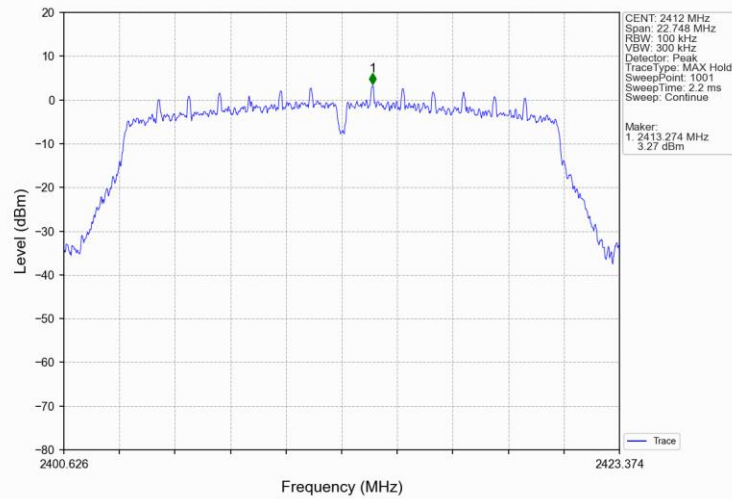
## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



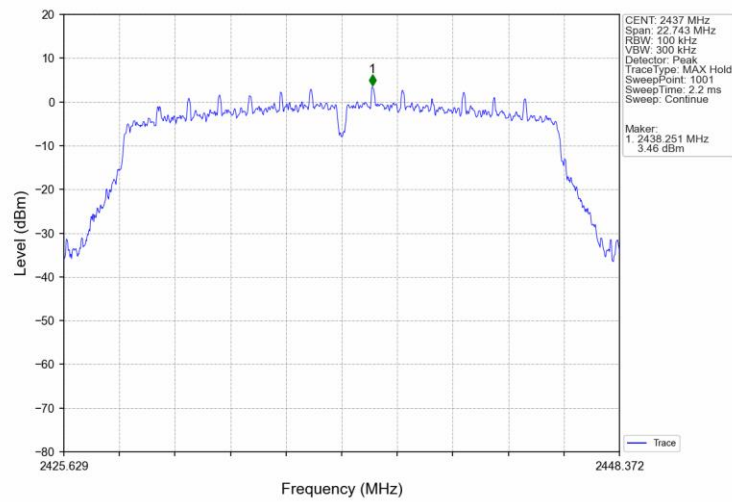
## 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



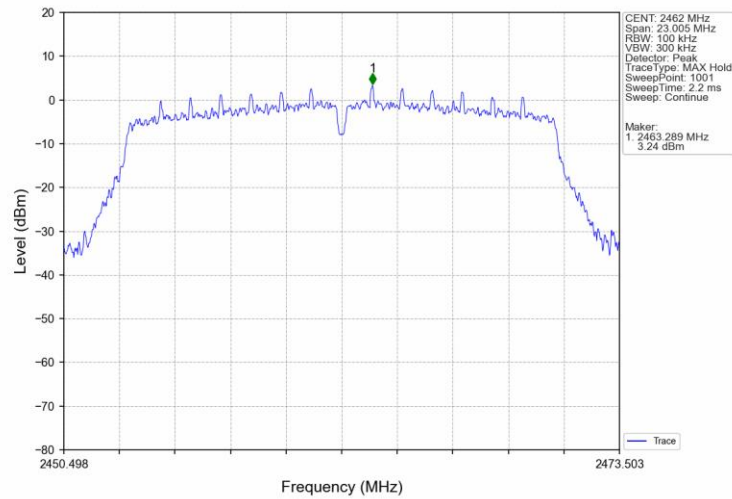
## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



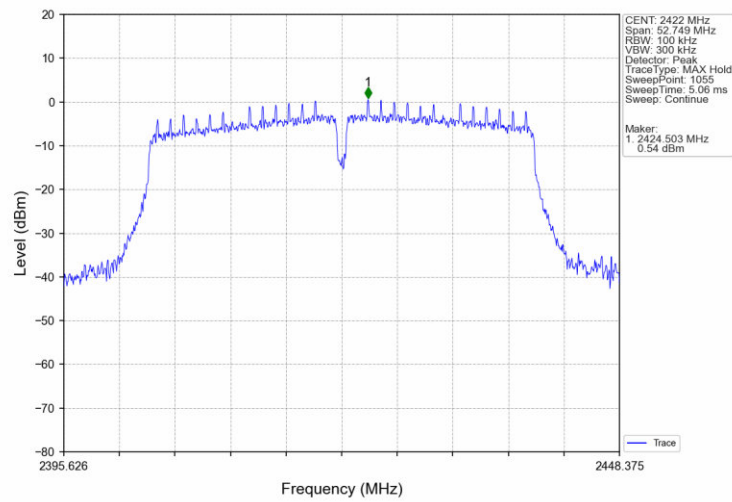
## 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



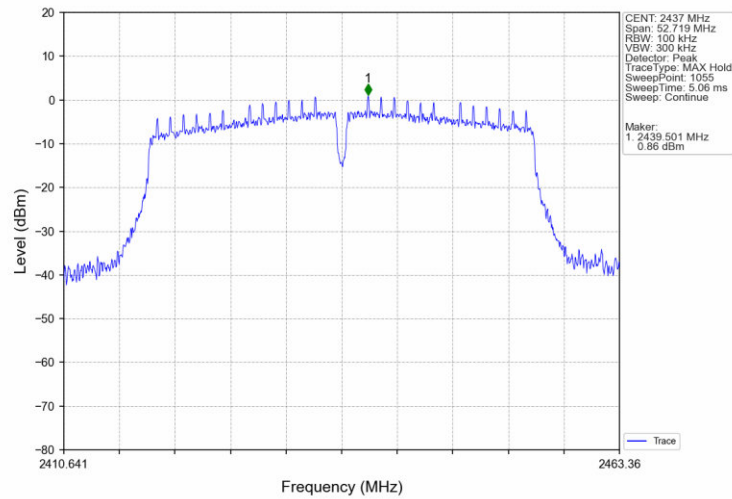
## 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



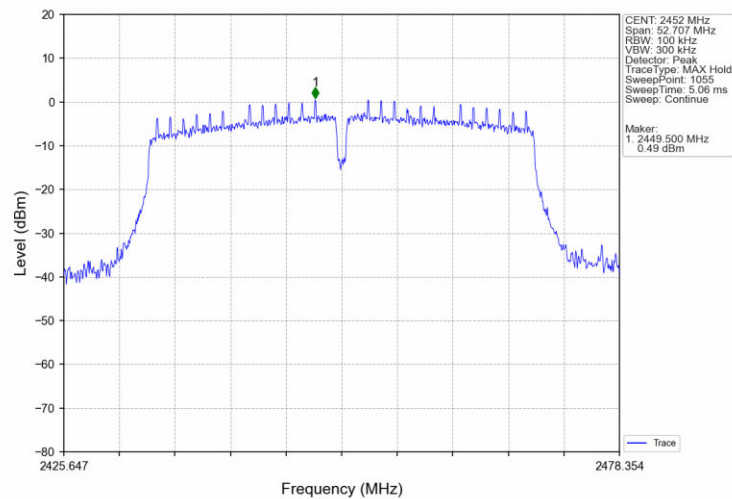
## 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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

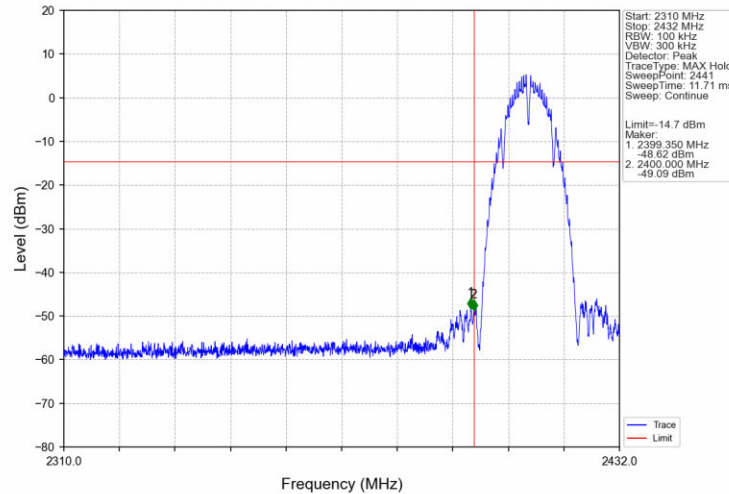


## 802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV

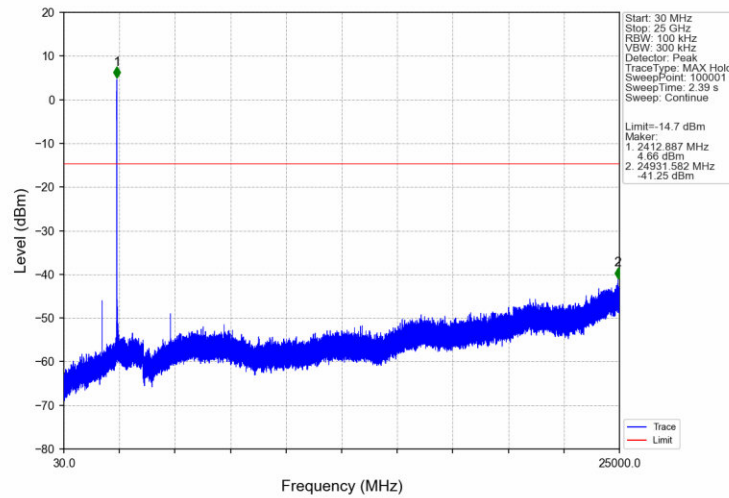


## 5.2.2 CSE

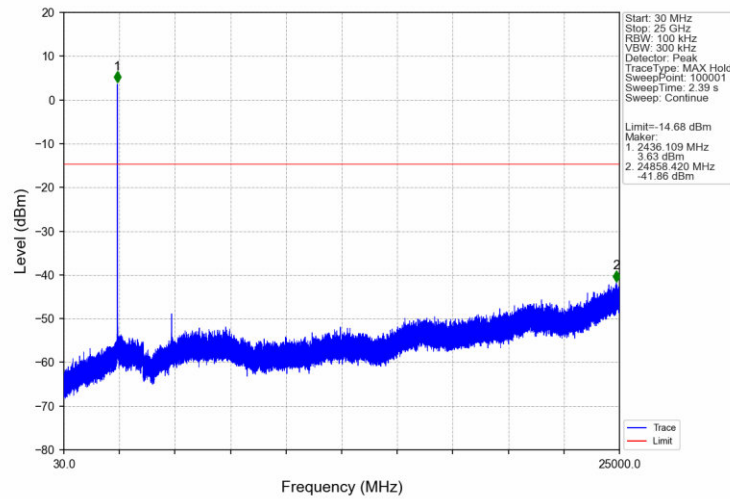
802.11b LCH 2412MHz Ant1 (SISO) NTN



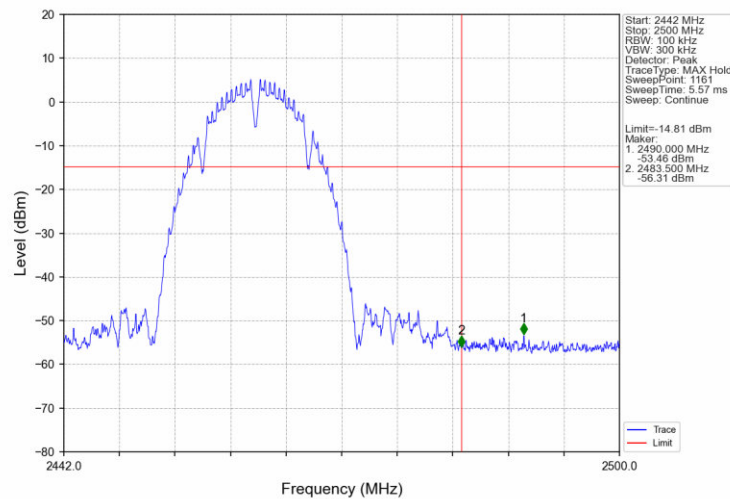
802.11b LCH 2412MHz Ant1 (SISO) NTN



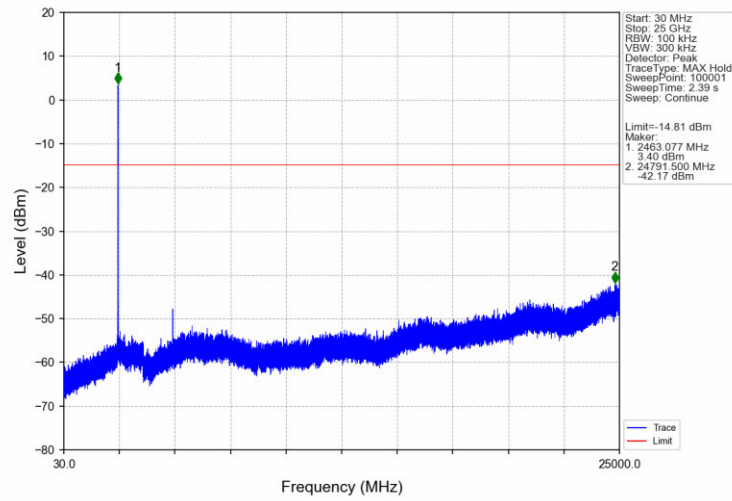
## 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



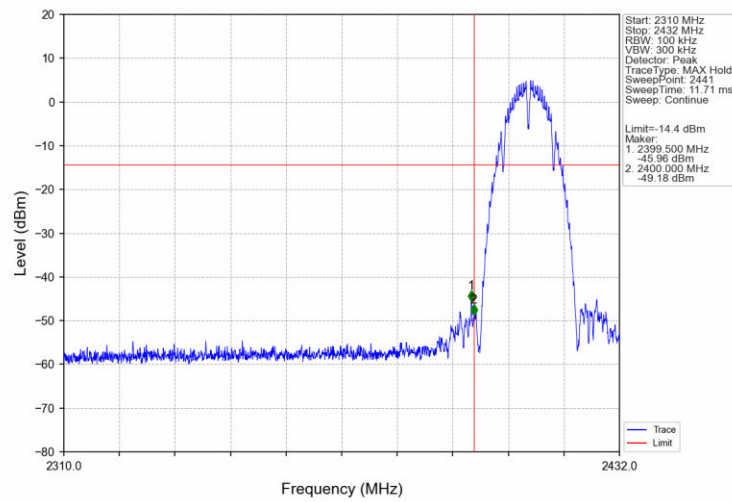
## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



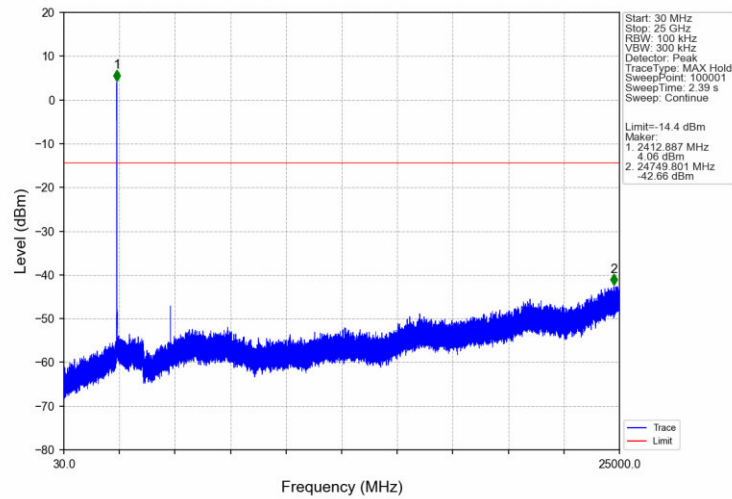
## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



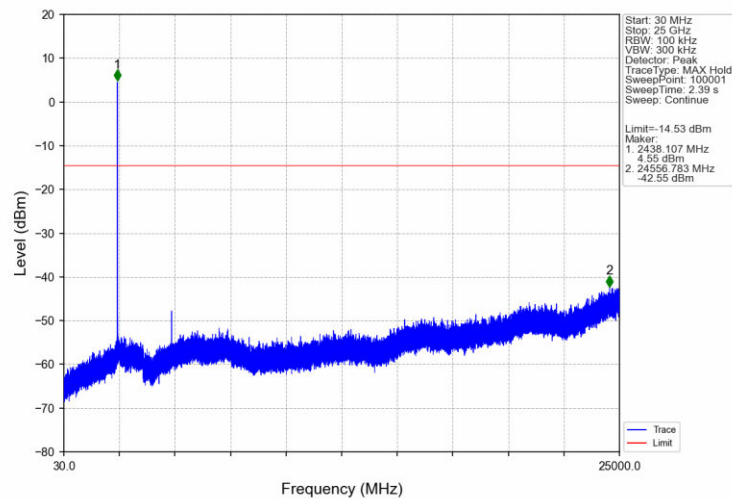
## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



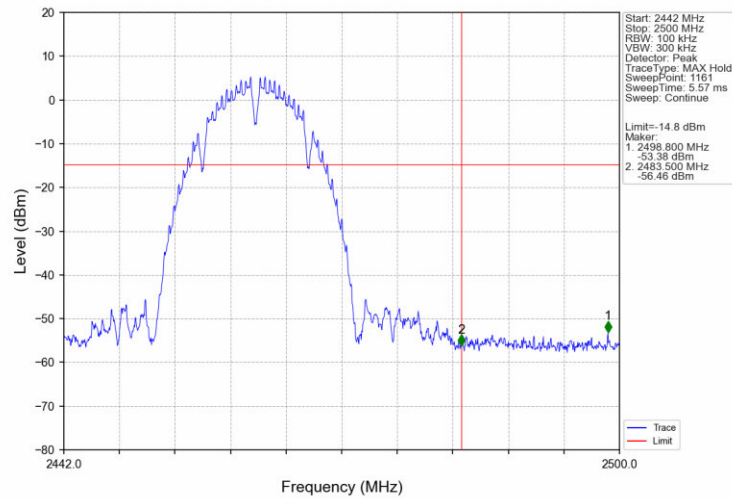
## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



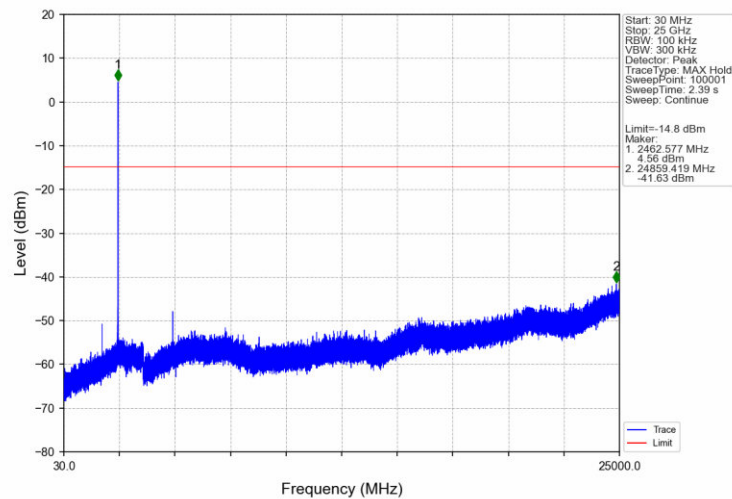
## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



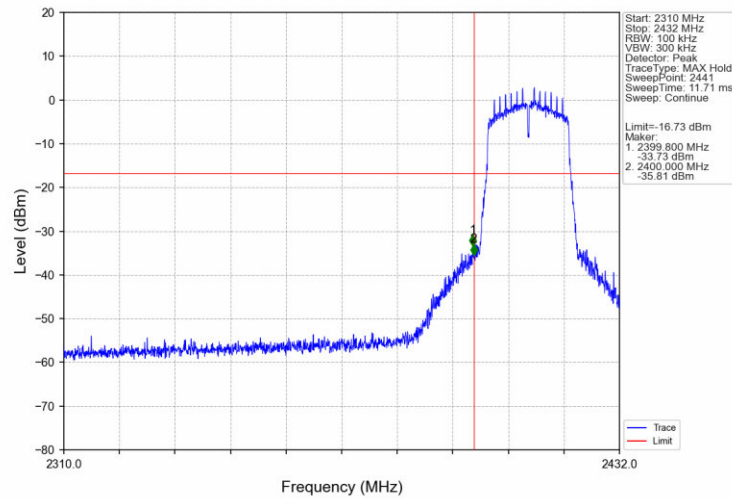
## 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



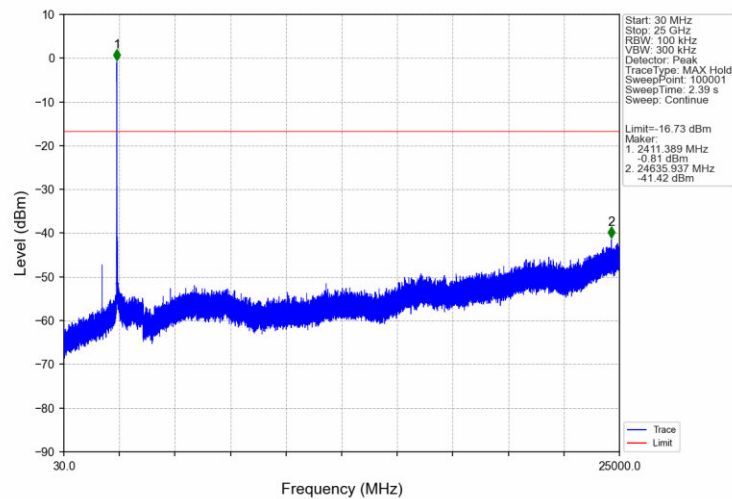
## 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



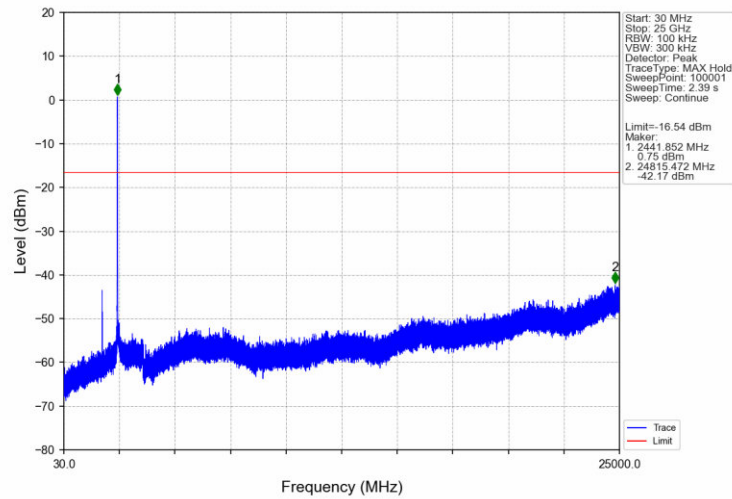
## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



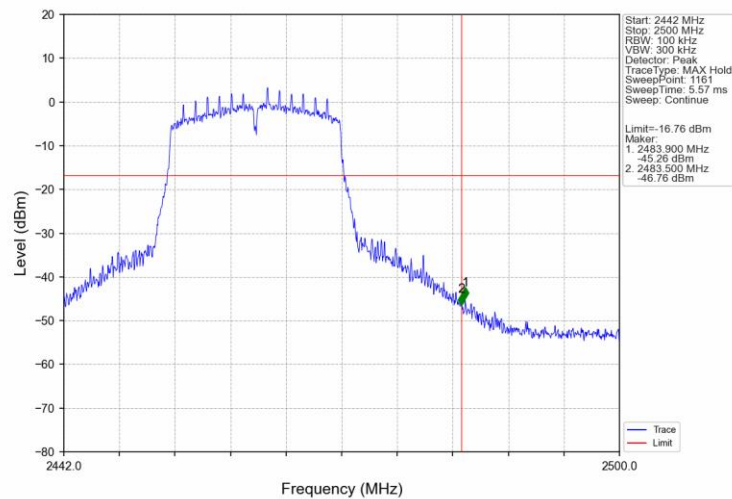
## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



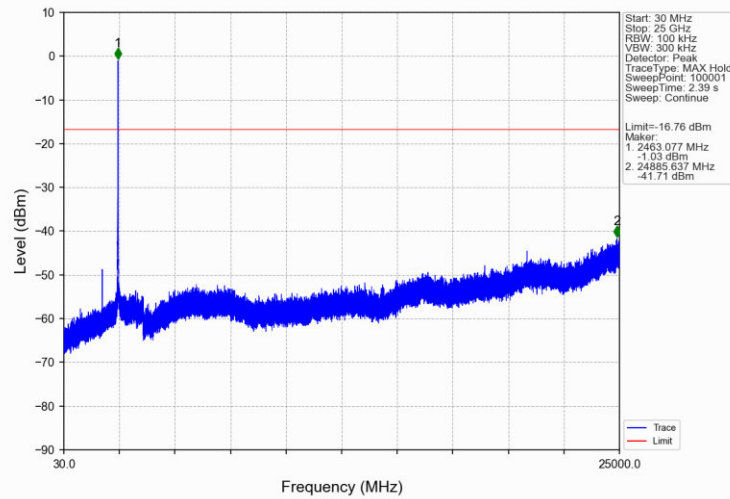
## 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



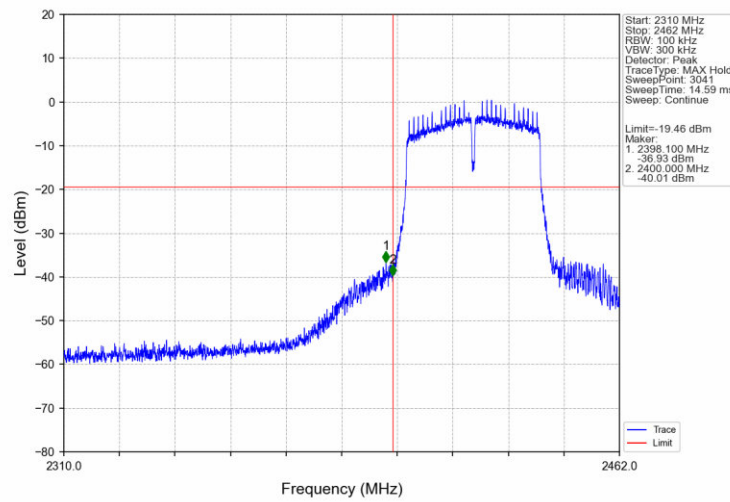
## 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



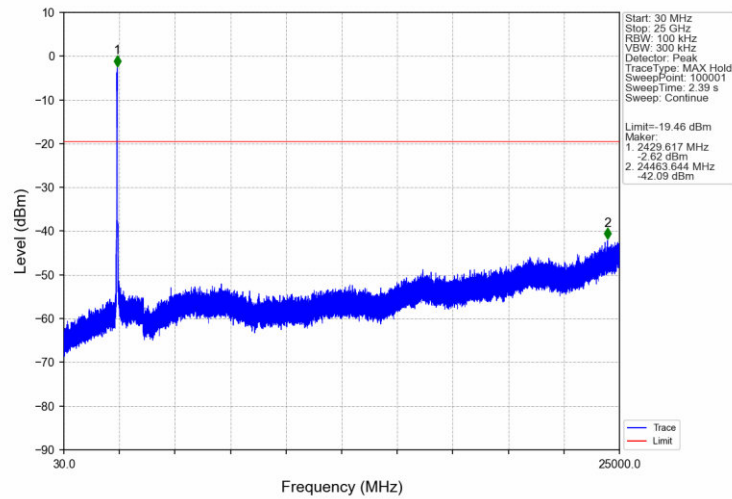
## 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



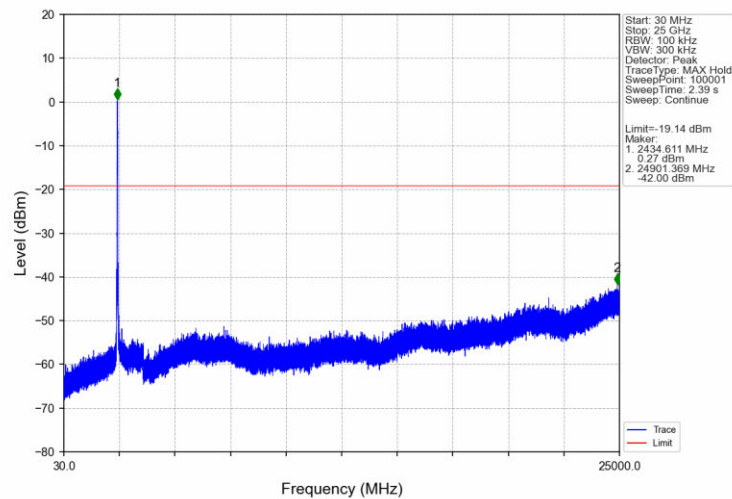
## 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



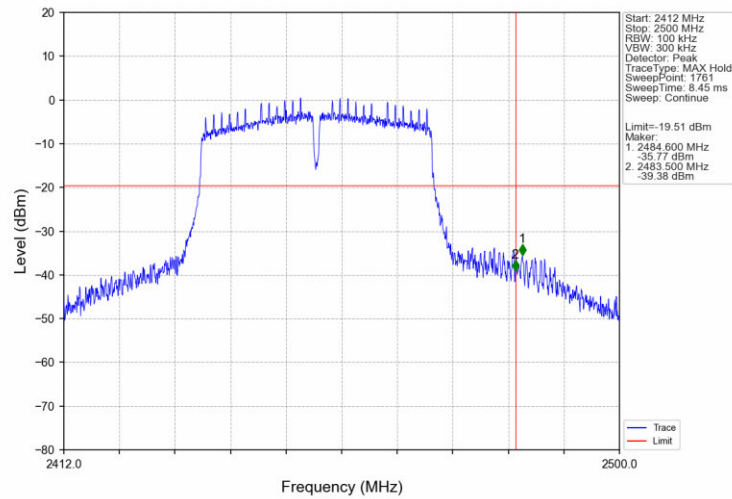
## 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



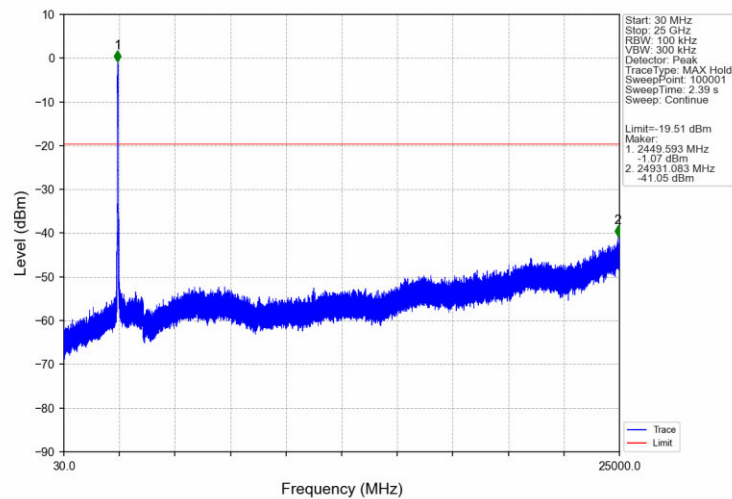
## 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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



## 6. Form731

### 6.1 Test Result

#### 6.1.1 Form731

| Lower Freq (MHz) | High Freq (MHz) | MAX Power (W) | MAX Power (dBm) |
|------------------|-----------------|---------------|-----------------|
| 2412             | 2462            | 0.0472        | 16.74           |
| 2422             | 2452            | 0.0557        | 17.46           |