

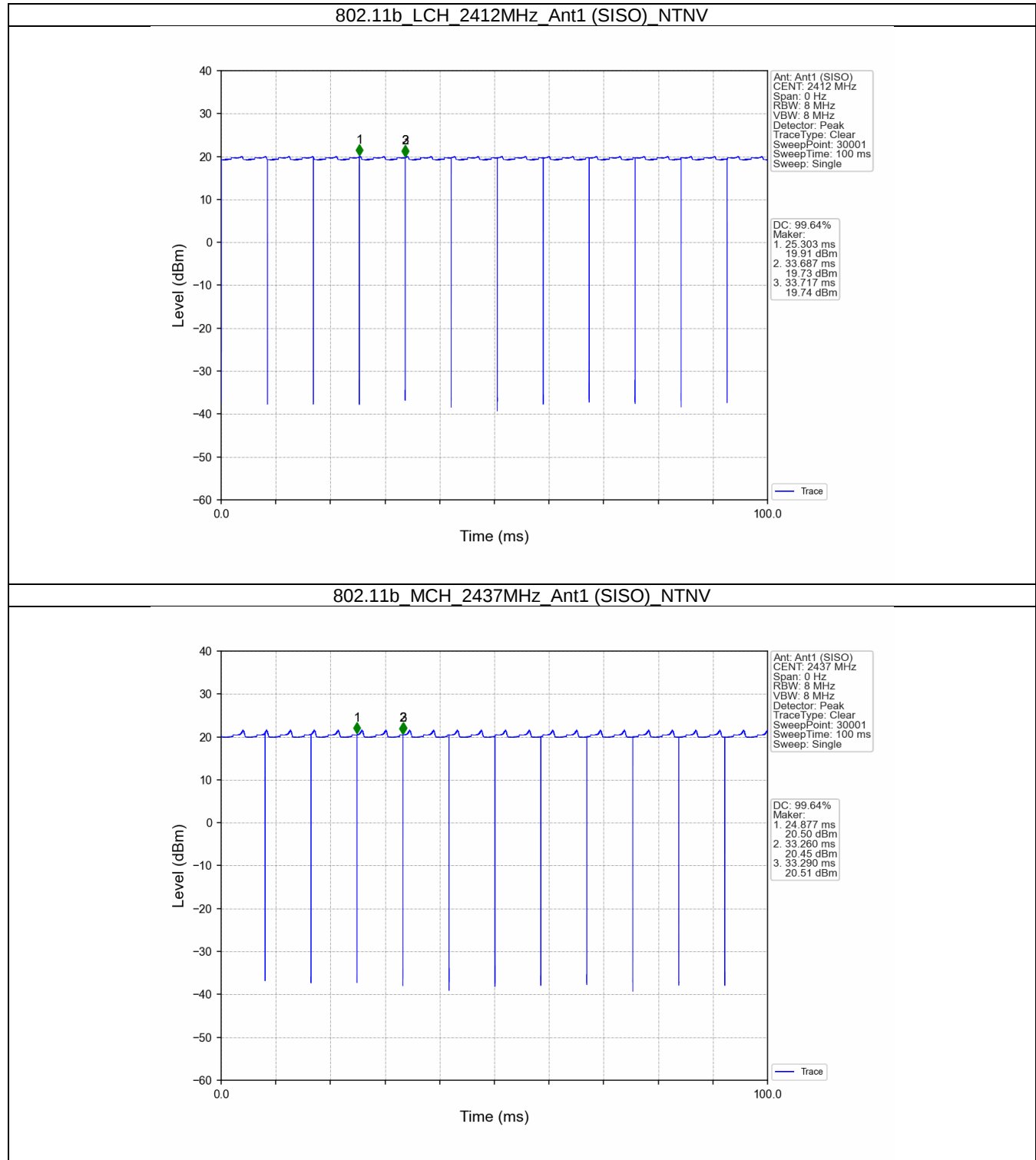
## 1. Duty Cycle

### 1.1 Ant1

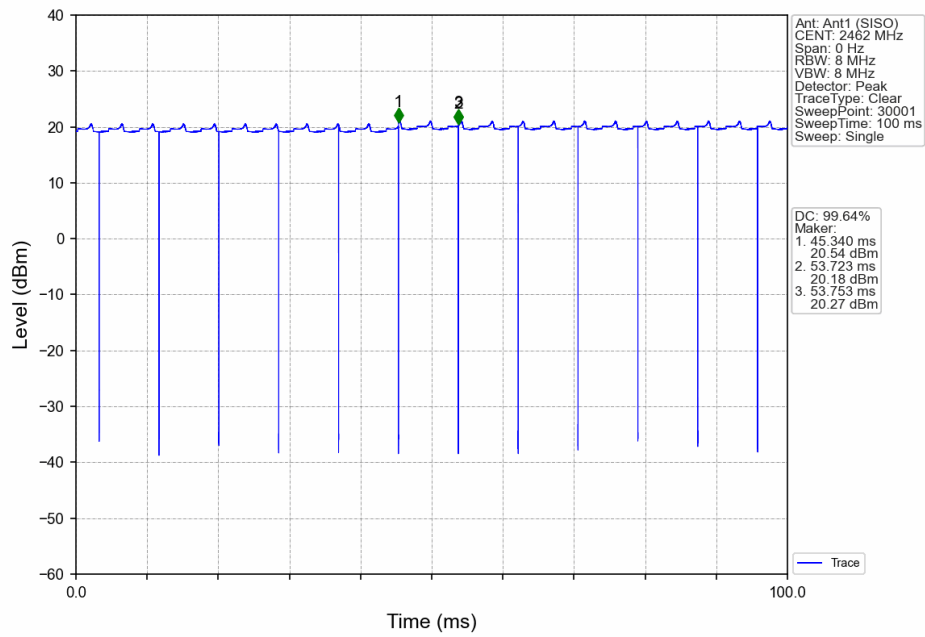
#### 1.1.1 Test Result

| 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            | 8.384     | 8.414       | 99.64          | 0.02                              | 0.04                  |
|                |         | 2437            | 8.383     | 8.413       | 99.64          | 0.02                              | 0.04                  |
|                |         | 2462            | 8.383     | 8.413       | 99.64          | 0.02                              | 0.04                  |
| 802.11g        | SISO    | 2412            | 1.393     | 1.428       | 97.55          | 0.11                              | 0.10                  |
|                |         | 2437            | 1.393     | 1.428       | 97.55          | 0.11                              | 0.03                  |
|                |         | 2462            | 1.394     | 1.428       | 97.62          | 0.10                              | 0.03                  |
| 802.11n (HT20) | SISO    | 2412            | 1.289     | 1.324       | 97.36          | 0.12                              | 0.07                  |
|                |         | 2437            | 1.289     | 1.324       | 97.36          | 0.12                              | 0.04                  |
|                |         | 2462            | 1.290     | 1.324       | 97.43          | 0.11                              | 0.03                  |
| 802.11n (HT40) | SISO    | 2422            | 0.637     | 0.671       | 94.93          | 0.23                              | 0.13                  |
|                |         | 2437            | 0.636     | 0.671       | 94.78          | 0.23                              | 0.07                  |
|                |         | 2452            | 0.637     | 0.671       | 94.93          | 0.23                              | 0.04                  |

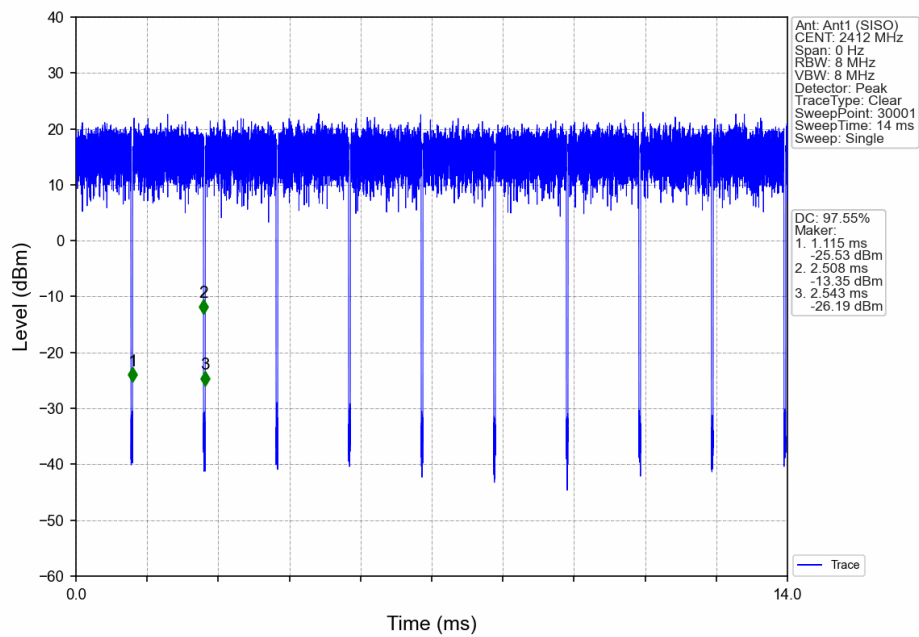
### 1.1.2 Test Graph



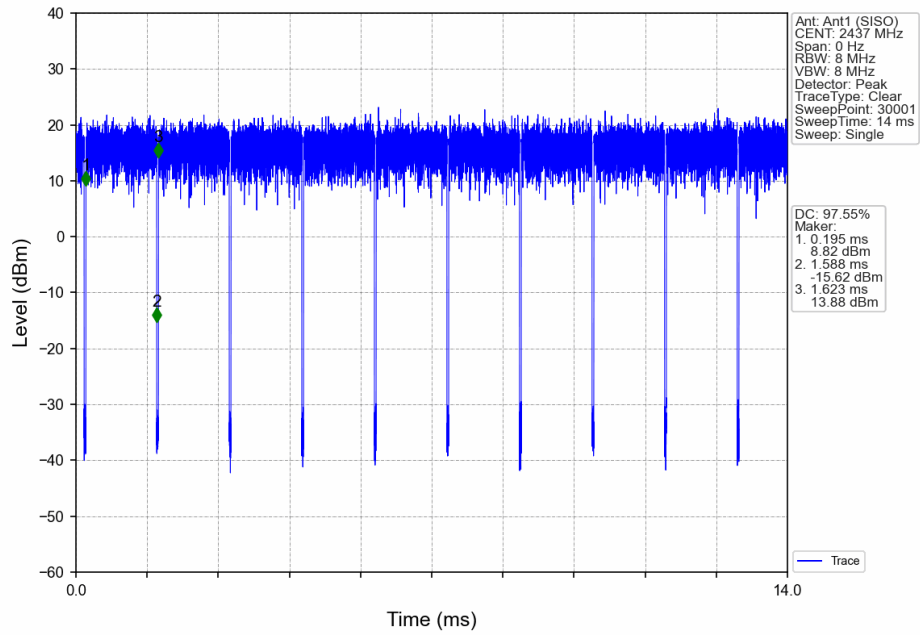
## 802.11b HCH 2462MHz Ant1 (SISO) NTN



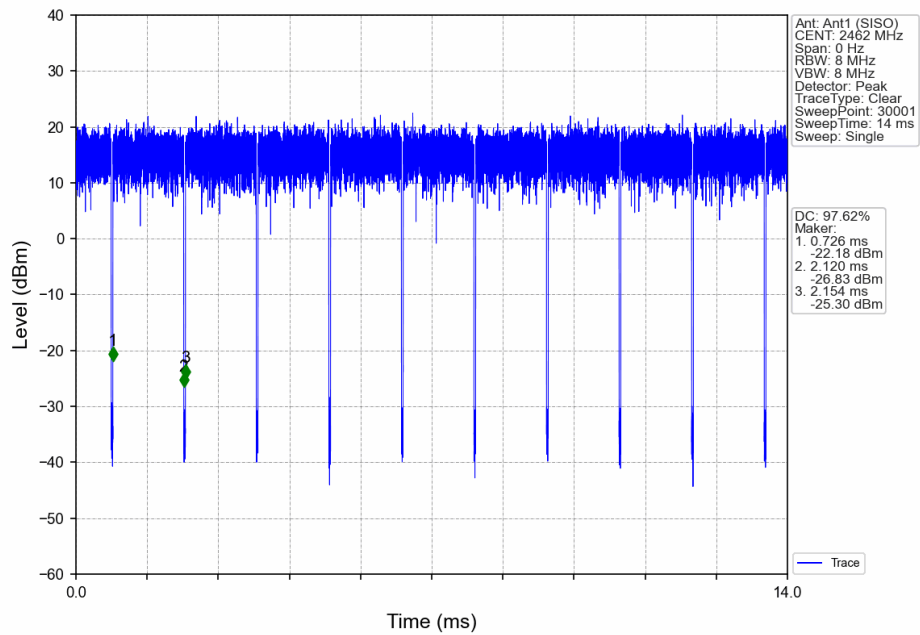
## 802.11g LCH 2412MHz Ant1 (SISO) NTN



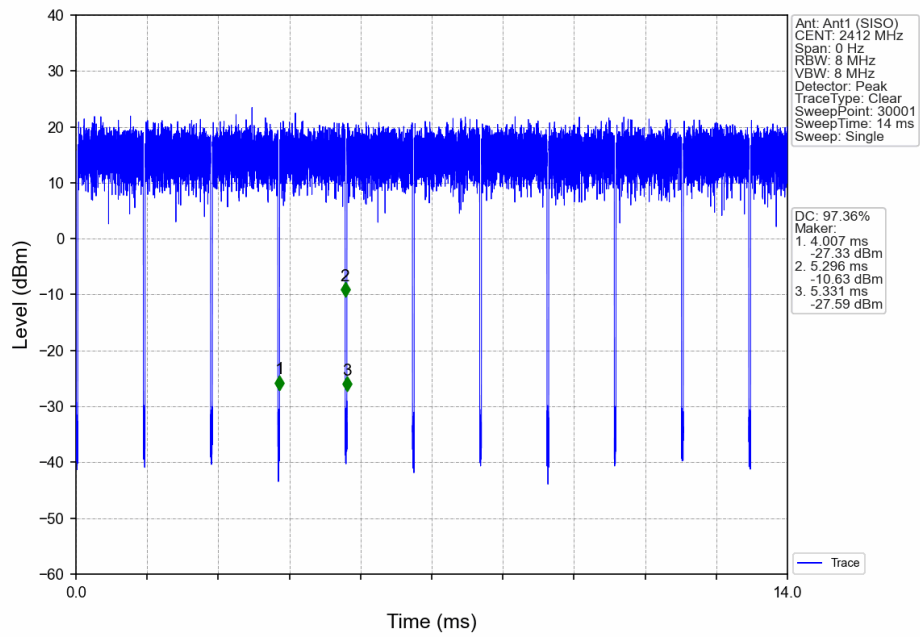
## 802.11g MCH 2437MHz Ant1 (SISO) NTN



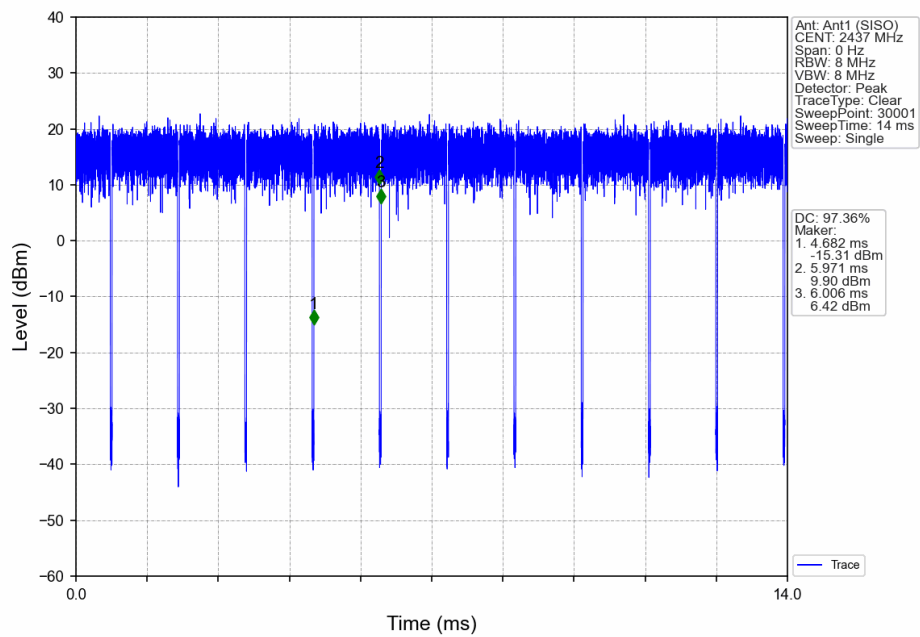
## 802.11g HCH 2462MHz Ant1 (SISO) NTN



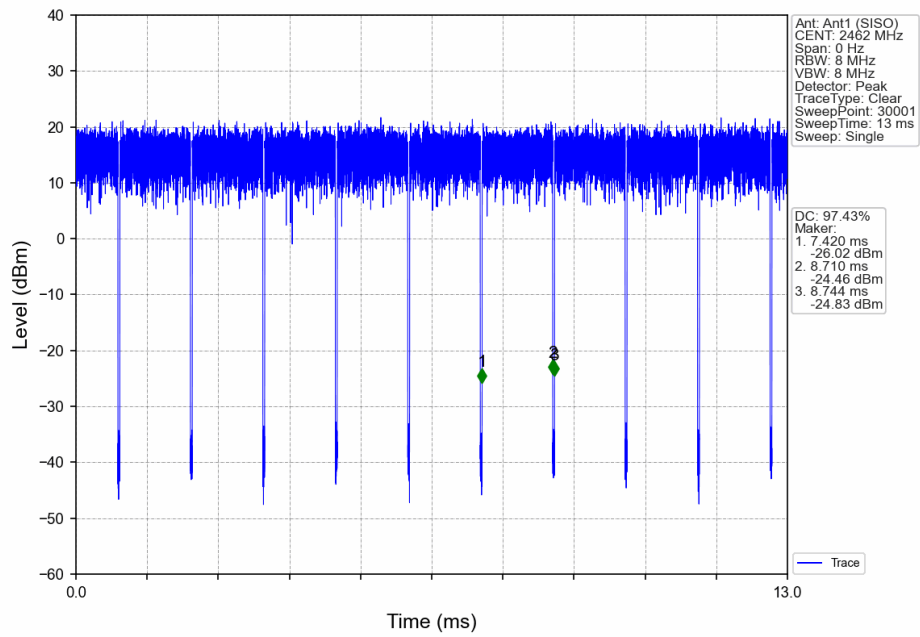
## 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



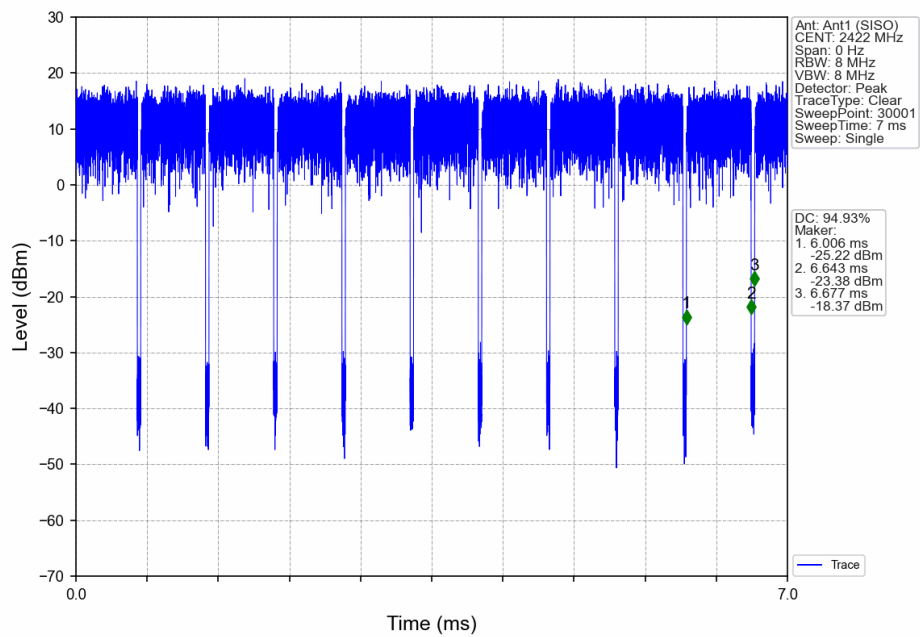
## 802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



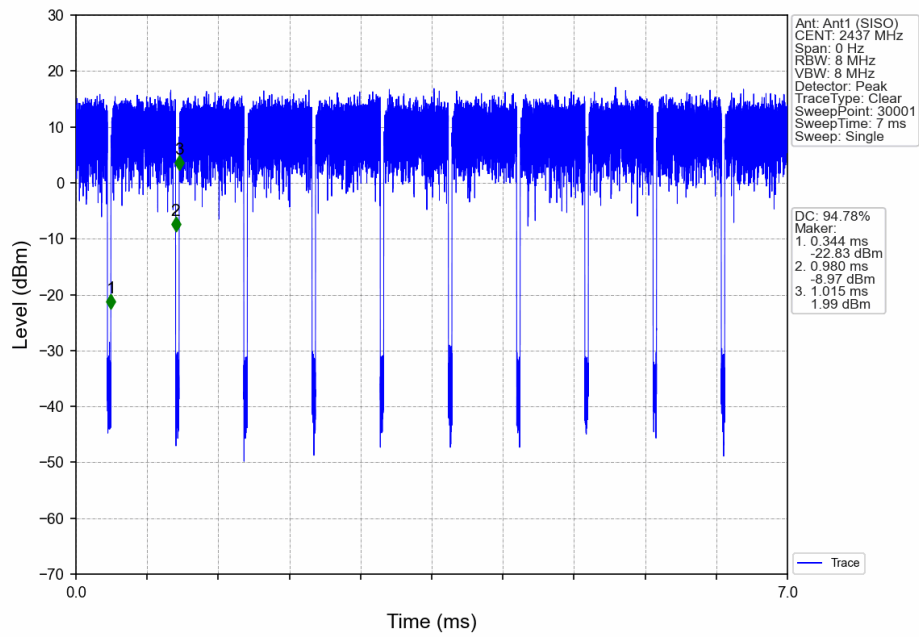
## 802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



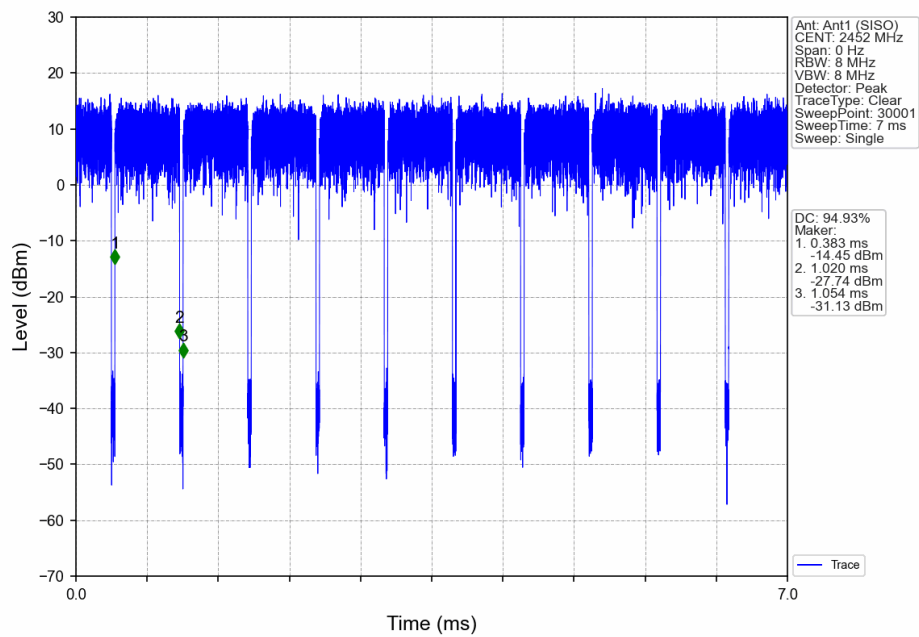
## 802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



## 802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



## 802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



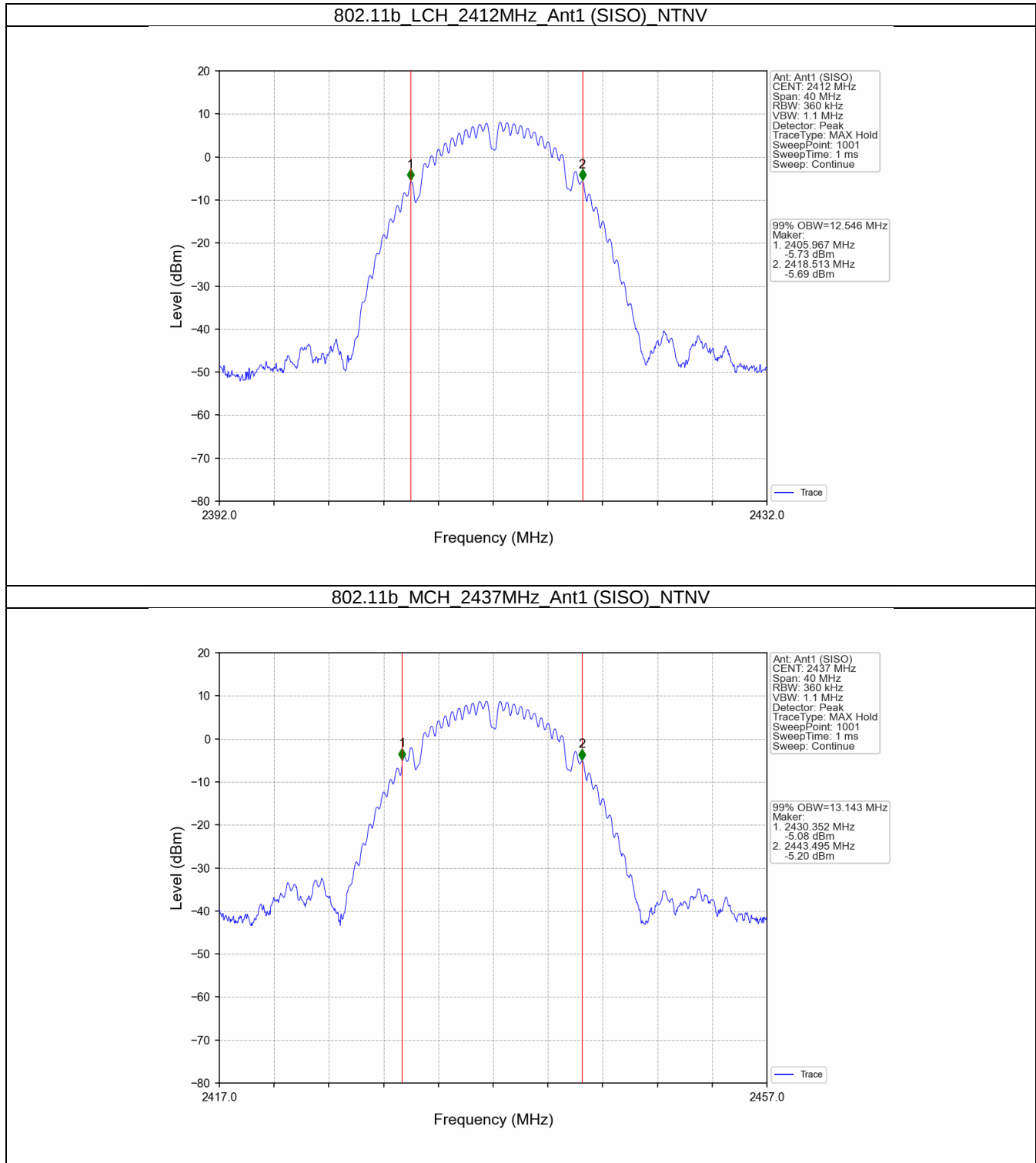
## 2. Bandwidth

### 2.1 OBW

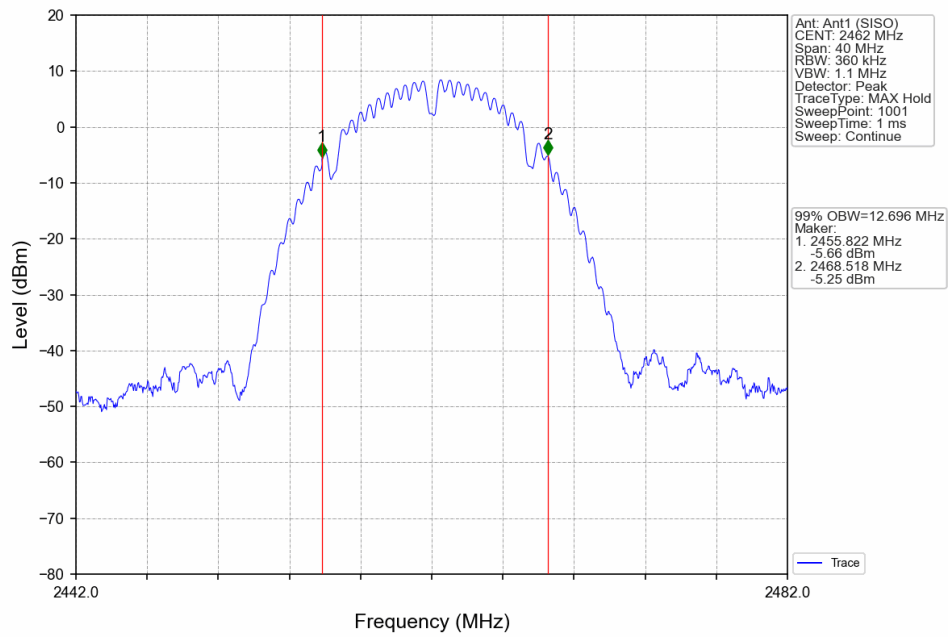
#### 2.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|----------------|---------|-----------------|-----|------------------------------|-------|---------|
|                |         |                 |     | Result                       | Limit |         |
| 802.11b        | SISO    | 2412            | 1   | 12.546                       | /     | Pass    |
|                |         | 2437            | 1   | 13.143                       | /     | Pass    |
|                |         | 2462            | 1   | 12.696                       | /     | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 17.956                       | /     | Pass    |
|                |         | 2437            | 1   | 17.634                       | /     | Pass    |
|                |         | 2462            | 1   | 17.667                       | /     | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 18.517                       | /     | Pass    |
|                |         | 2437            | 1   | 18.466                       | /     | Pass    |
|                |         | 2462            | 1   | 18.504                       | /     | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 35.983                       | /     | Pass    |
|                |         | 2437            | 1   | 37.208                       | /     | Pass    |
|                |         | 2452            | 1   | 37.165                       | /     | Pass    |

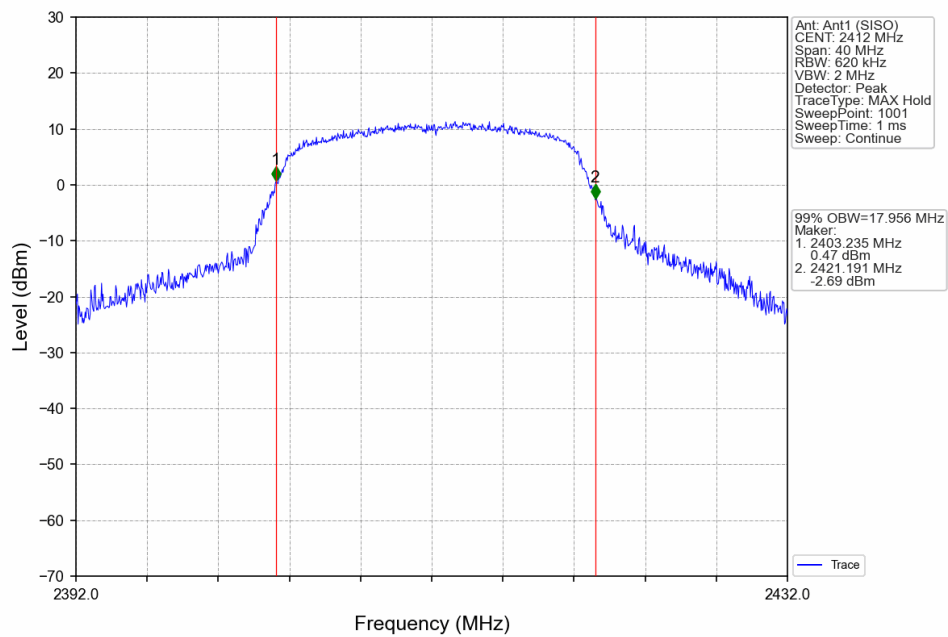
## 2.1.2 Test Graph



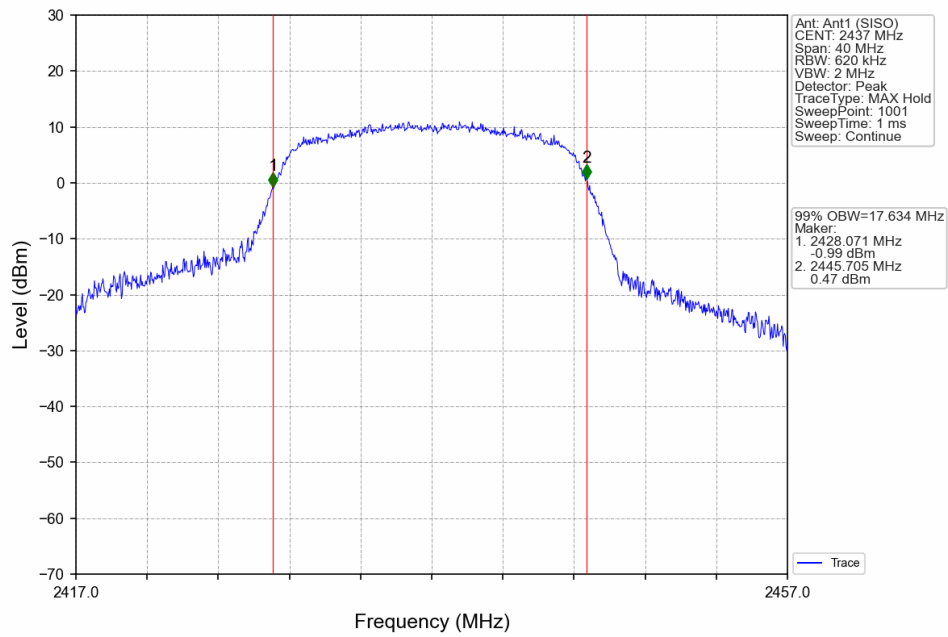
## 802.11b HCH 2462MHz Ant1 (SISO) NTN



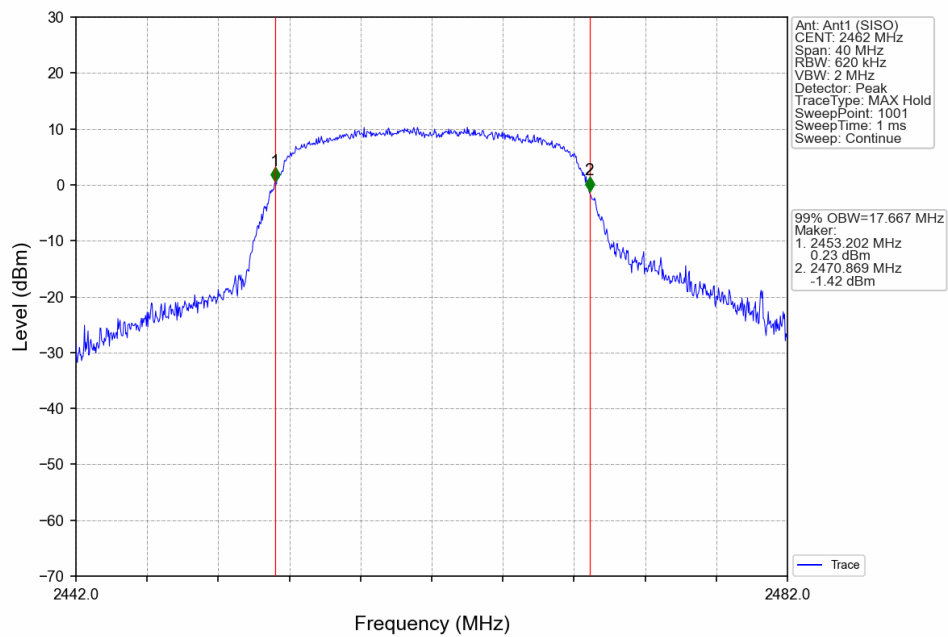
## 802.11g LCH 2412MHz Ant1 (SISO) NTN



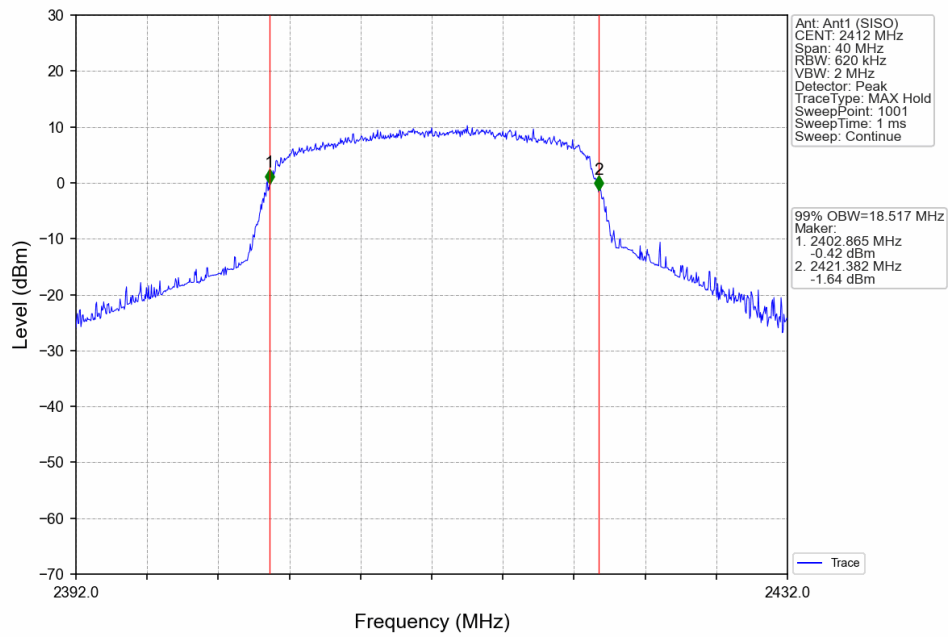
## 802.11g MCH 2437MHz Ant1 (SISO) NTNV



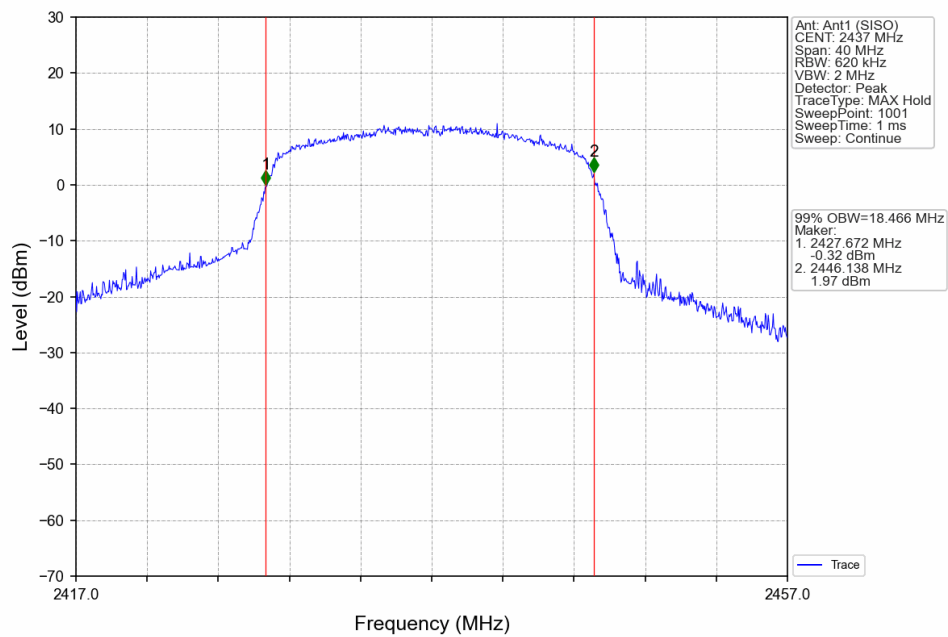
## 802.11g HCH 2462MHz Ant1 (SISO) NTNV



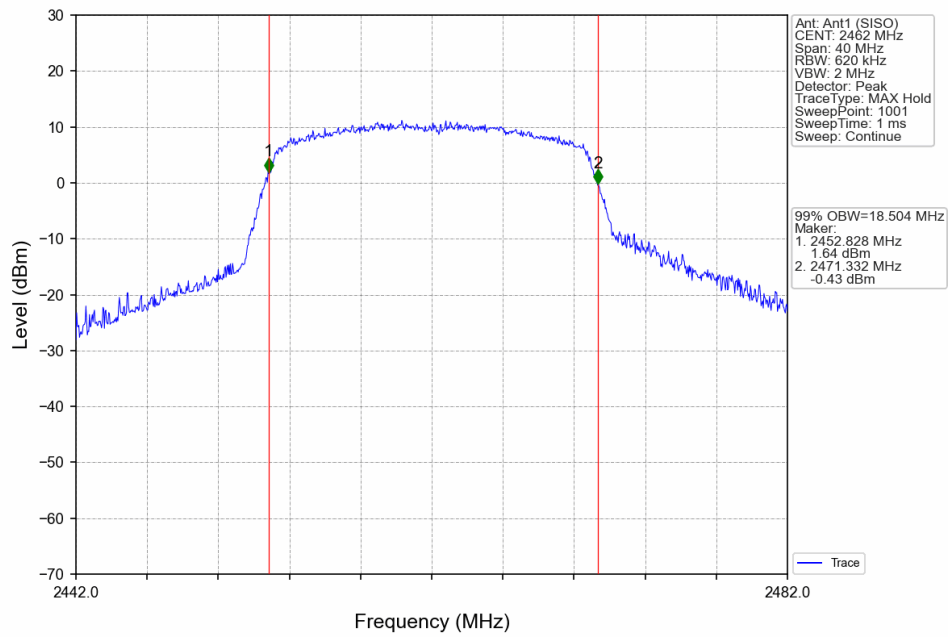
## 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



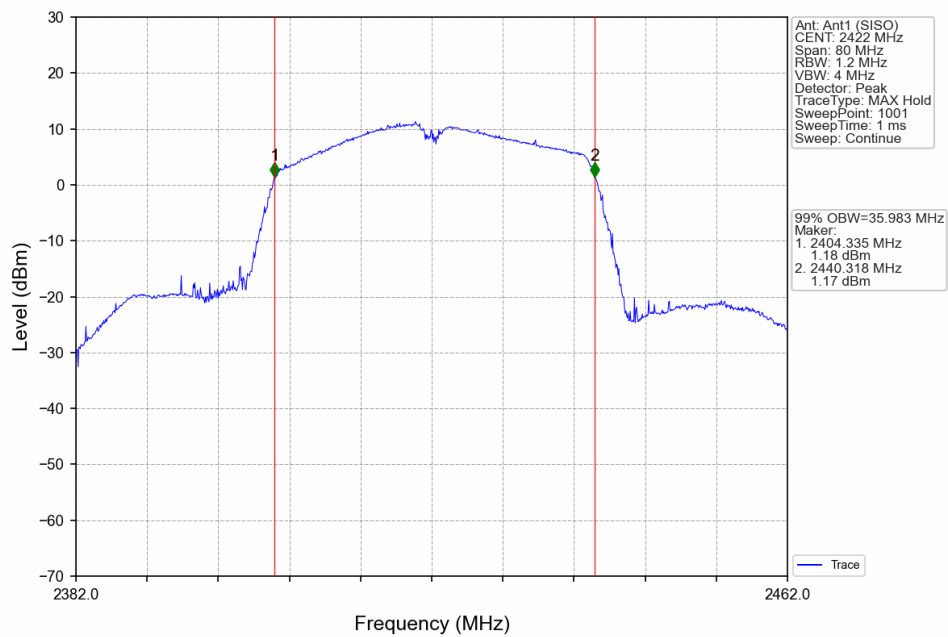
## 802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



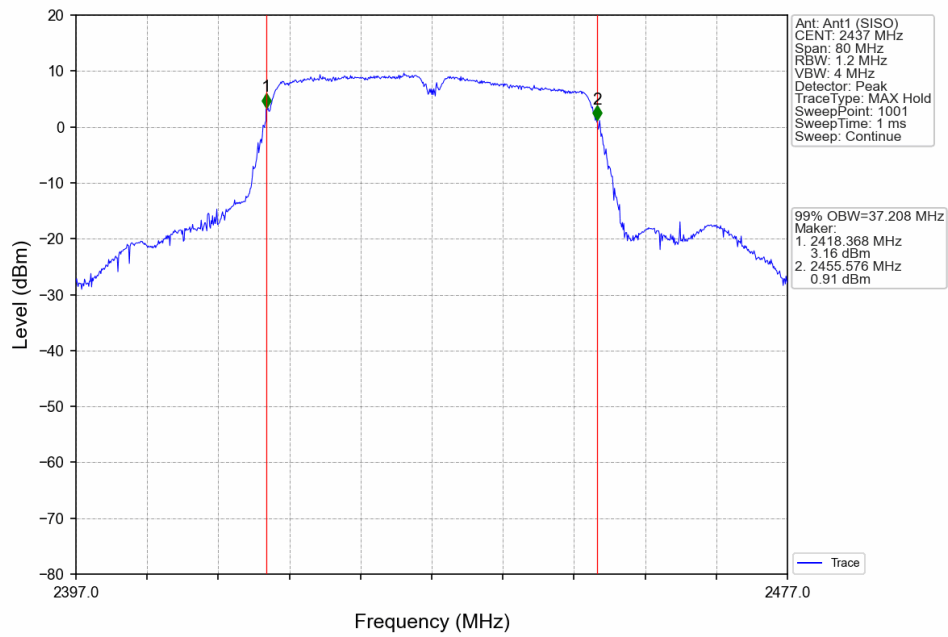
## 802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



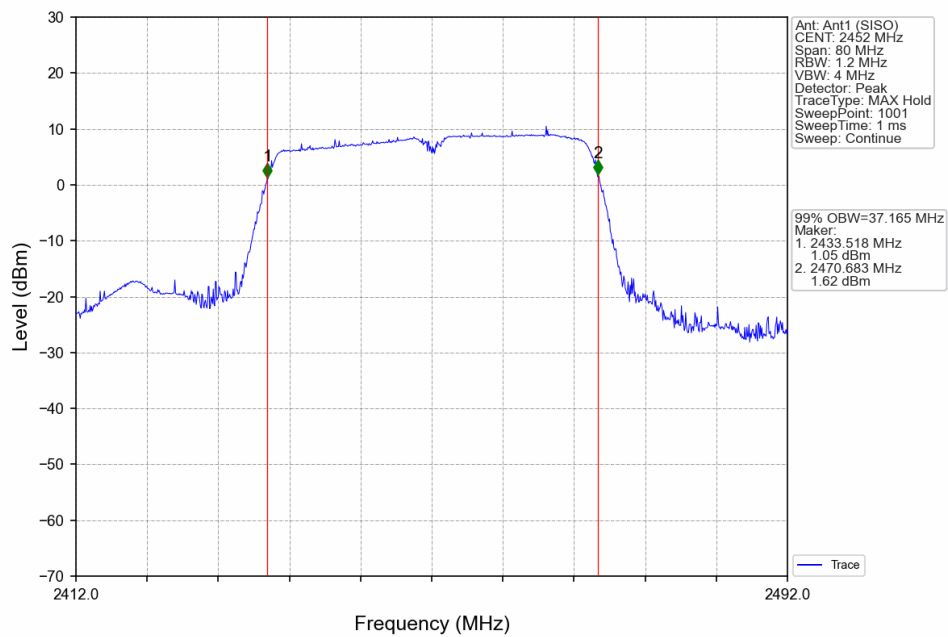
## 802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV

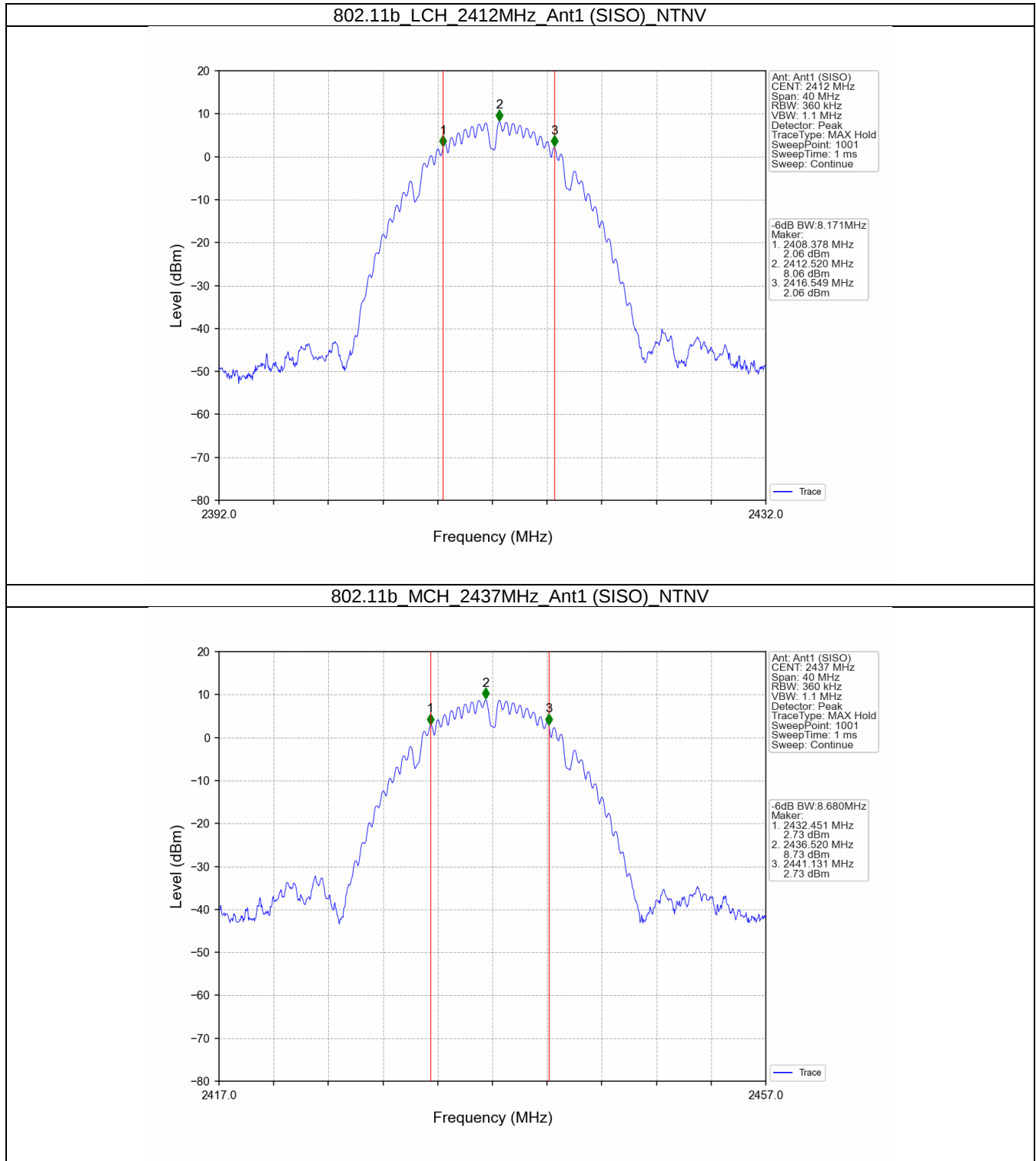


## 2.2 6dB BW

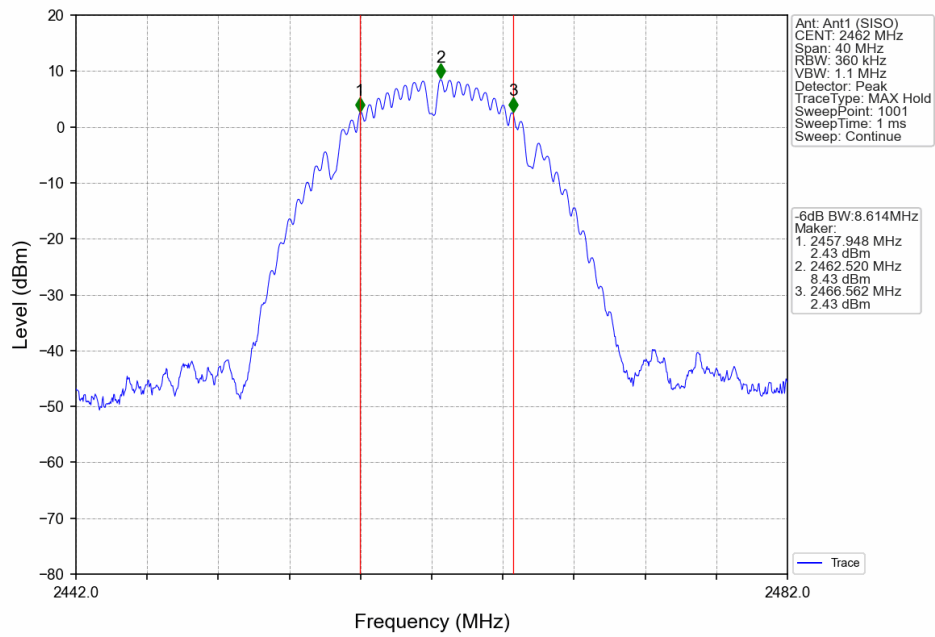
### 2.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
|                |         |                 |     | Result              | Limit      |         |
| 802.11b        | SISO    | 2412            | 1   | 8.171               | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 8.680               | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 8.614               | $\geq 0.5$ | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 16.107              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 16.034              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 16.265              | $\geq 0.5$ | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 17.148              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 17.566              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 17.457              | $\geq 0.5$ | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 30.914              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 36.493              | $\geq 0.5$ | Pass    |
|                |         | 2452            | 1   | 36.494              | $\geq 0.5$ | Pass    |

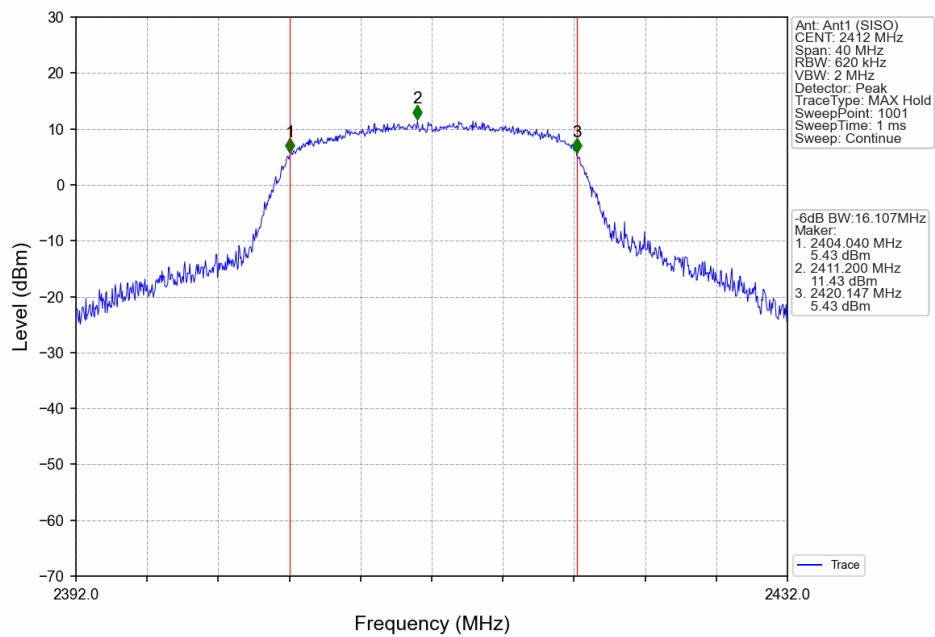
## 2.2.2 Test Graph



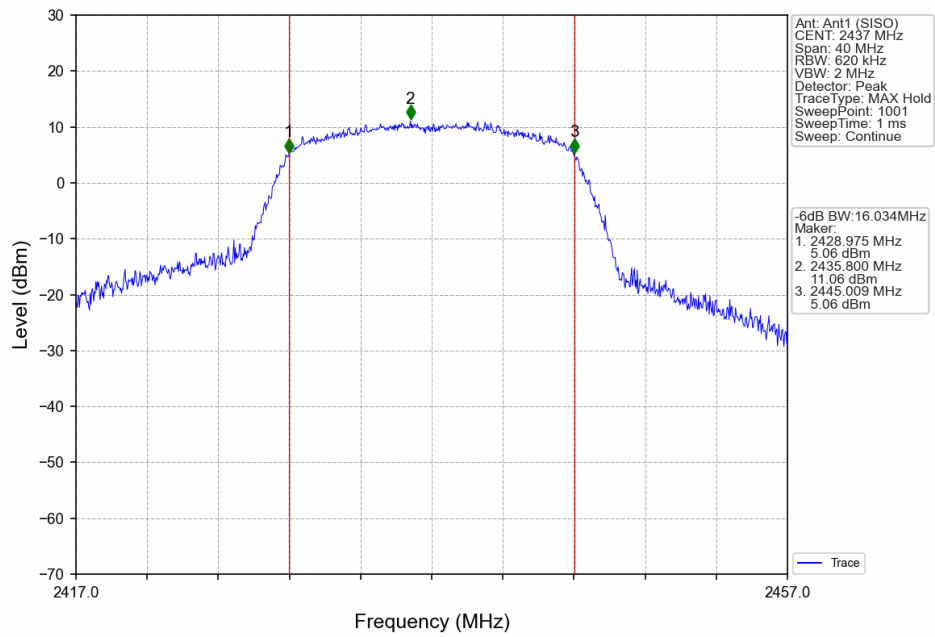
## 802.11b HCH 2462MHz Ant1 (SISO) NTN



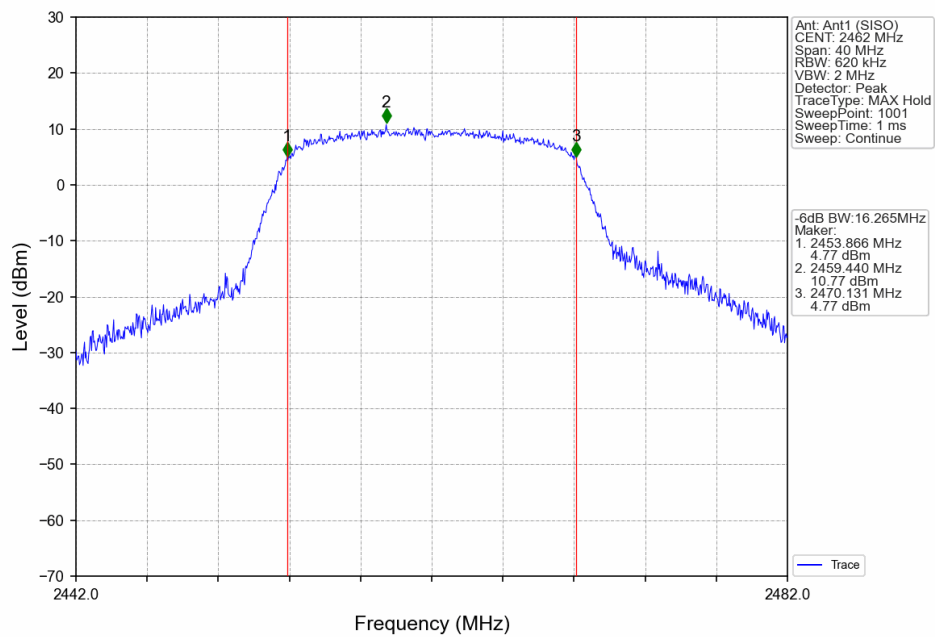
## 802.11g LCH 2412MHz Ant1 (SISO) NTN



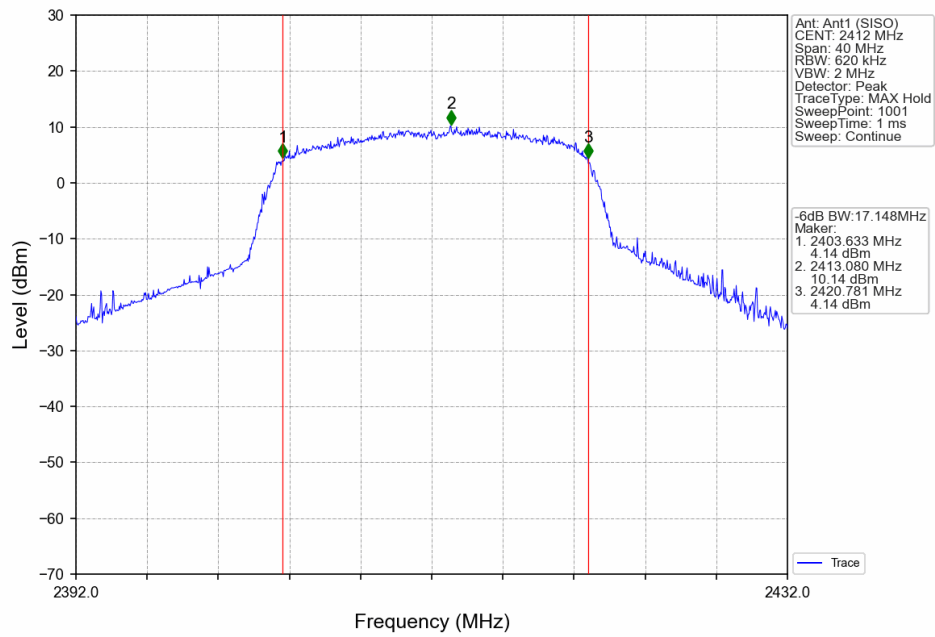
## 802.11g MCH 2437MHz Ant1 (SISO) NTN



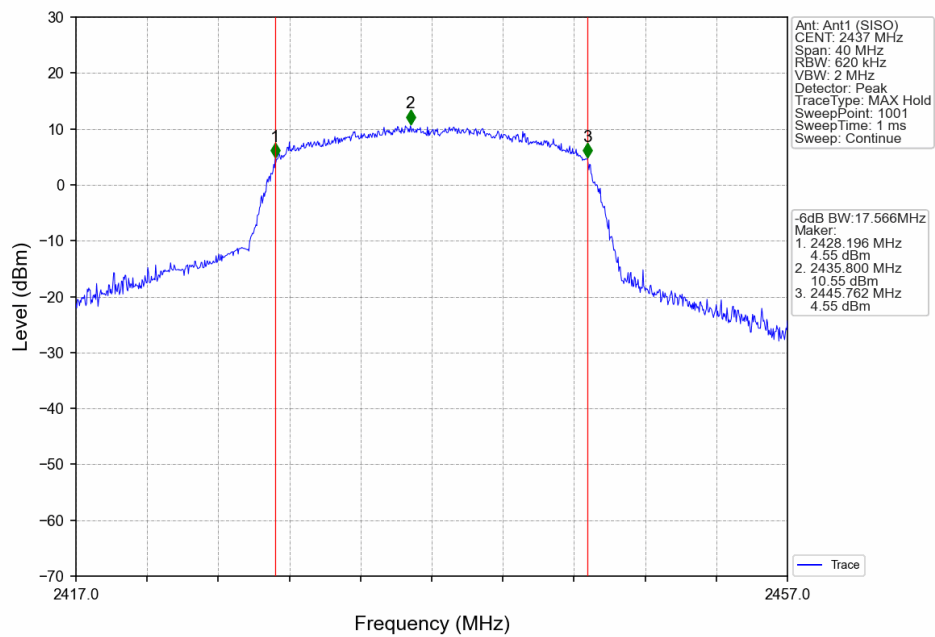
## 802.11g HCH 2462MHz Ant1 (SISO) NTN



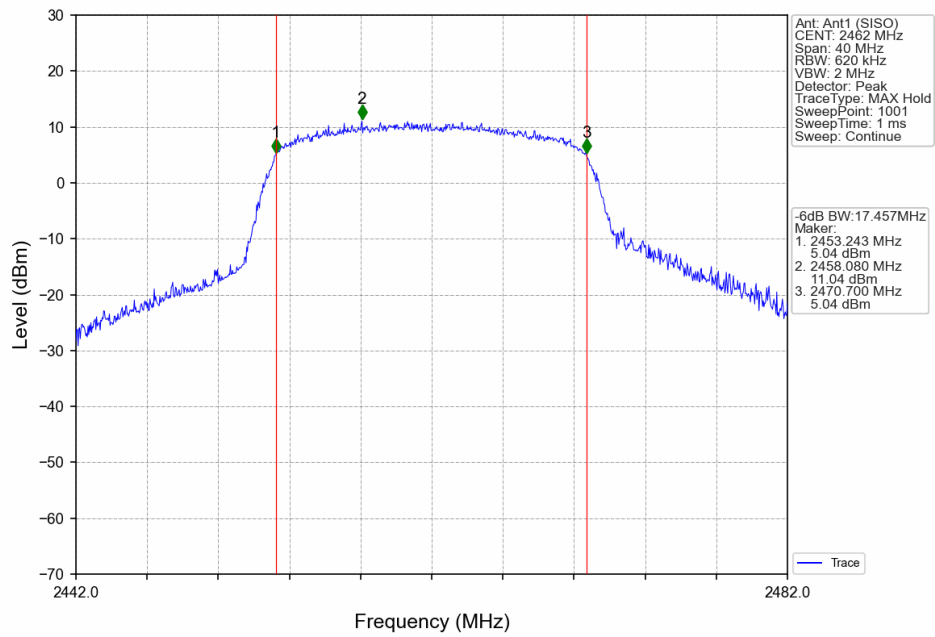
## 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



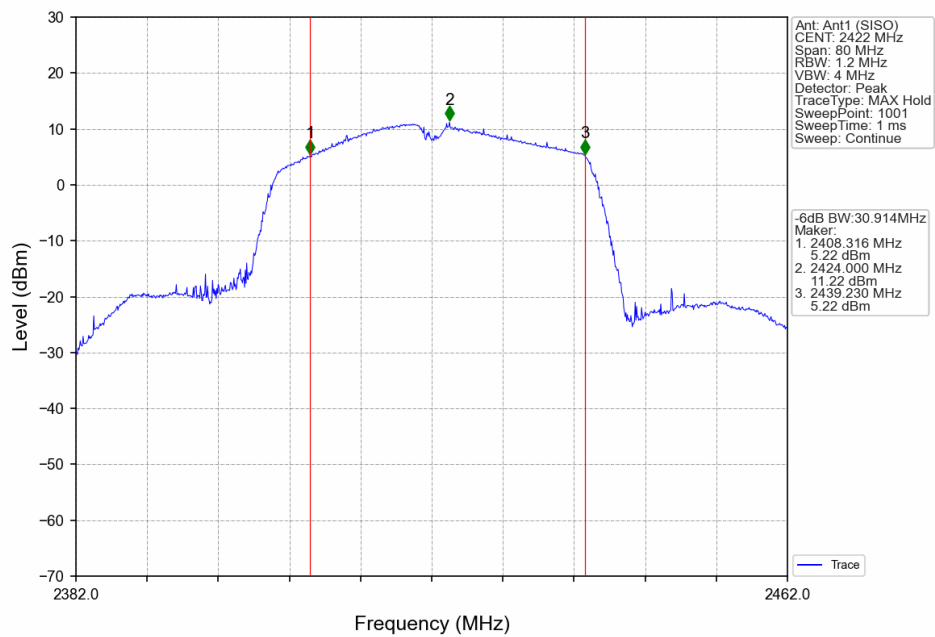
## 802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



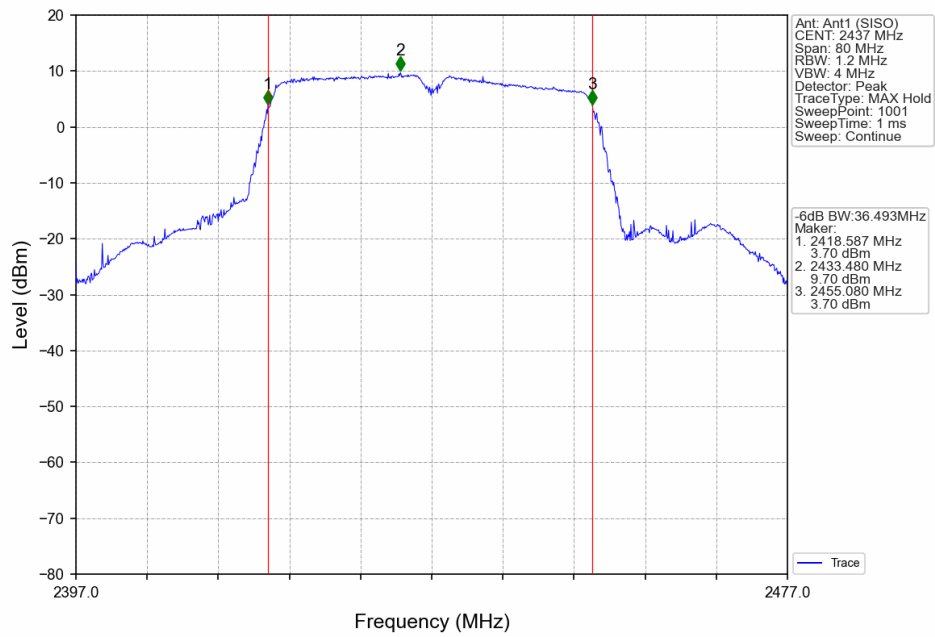
## 802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



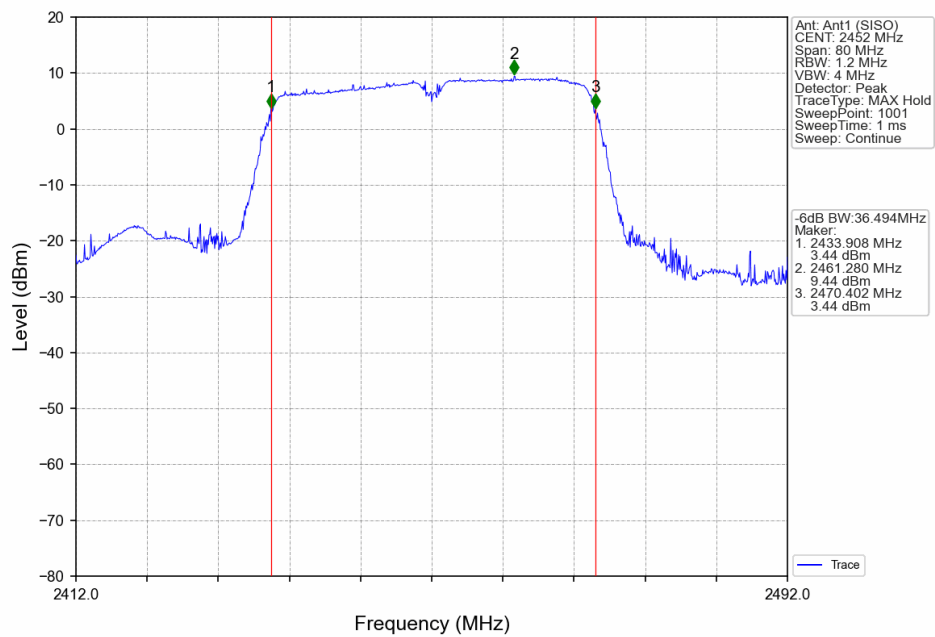
## 802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



## 802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



## 802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|----------------|---------|-----------------|-------------------------------------------|-------|---------|
|                |         |                 | ANT1                                      | Limit |         |
| 802.11b        | SISO    | 2412            | 18.09                                     | <=30  | Pass    |
|                |         | 2437            | 18.95                                     | <=30  | Pass    |
|                |         | 2462            | 18.49                                     | <=30  | Pass    |
| 802.11g        | SISO    | 2412            | 22.61                                     | <=30  | Pass    |
|                |         | 2437            | 23.27                                     | <=30  | Pass    |
|                |         | 2462            | 22.59                                     | <=30  | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 22.60                                     | <=30  | Pass    |
|                |         | 2437            | 23.24                                     | <=30  | Pass    |
|                |         | 2462            | 22.53                                     | <=30  | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 21.62                                     | <=30  | Pass    |
|                |         | 2437            | 21.80                                     | <=30  | Pass    |
|                |         | 2452            | 21.45                                     | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 3.50dBi;

## 4. Maximum Power Spectral Density

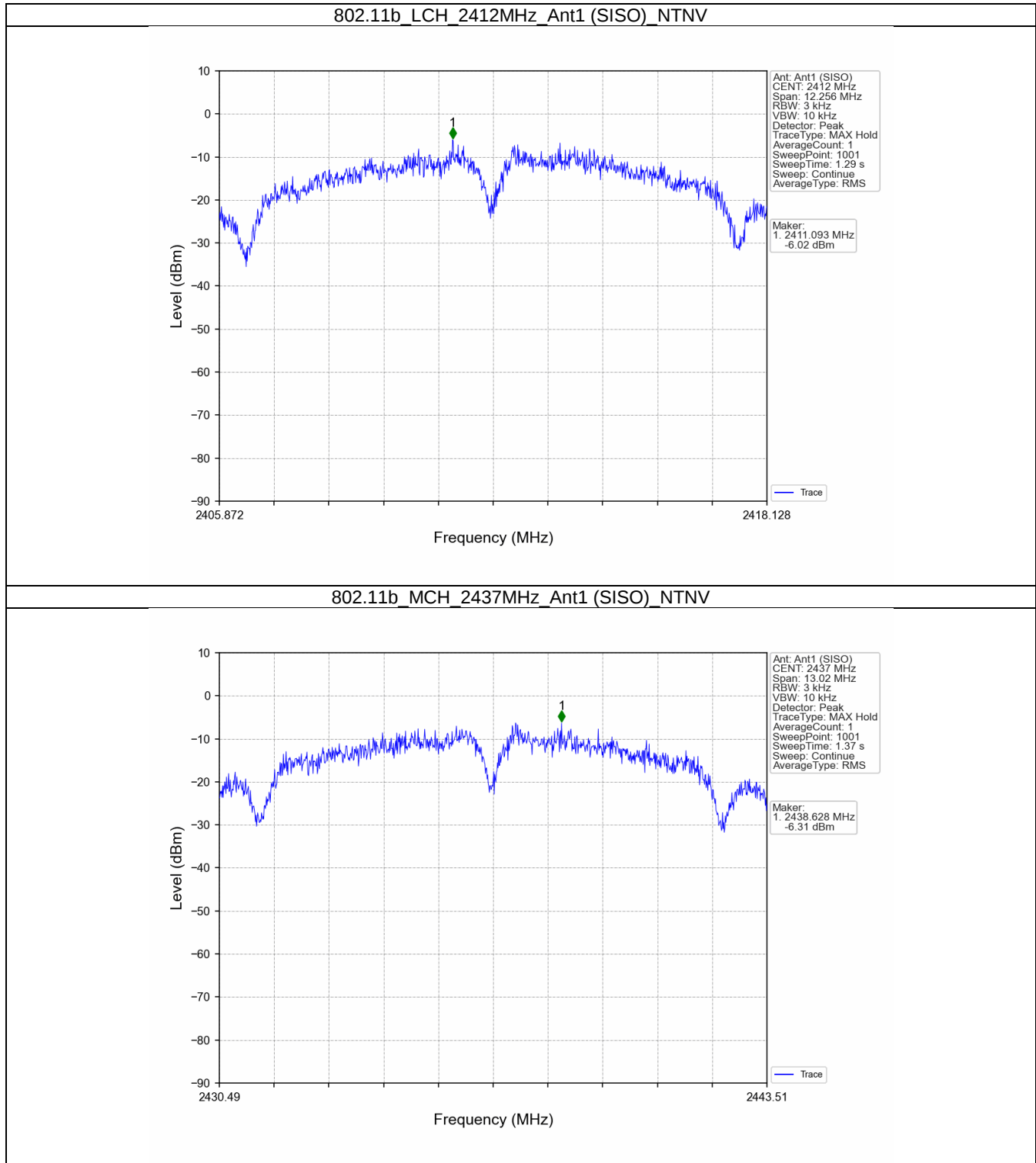
### 4.1 PSD

#### 4.1.1 Test Result

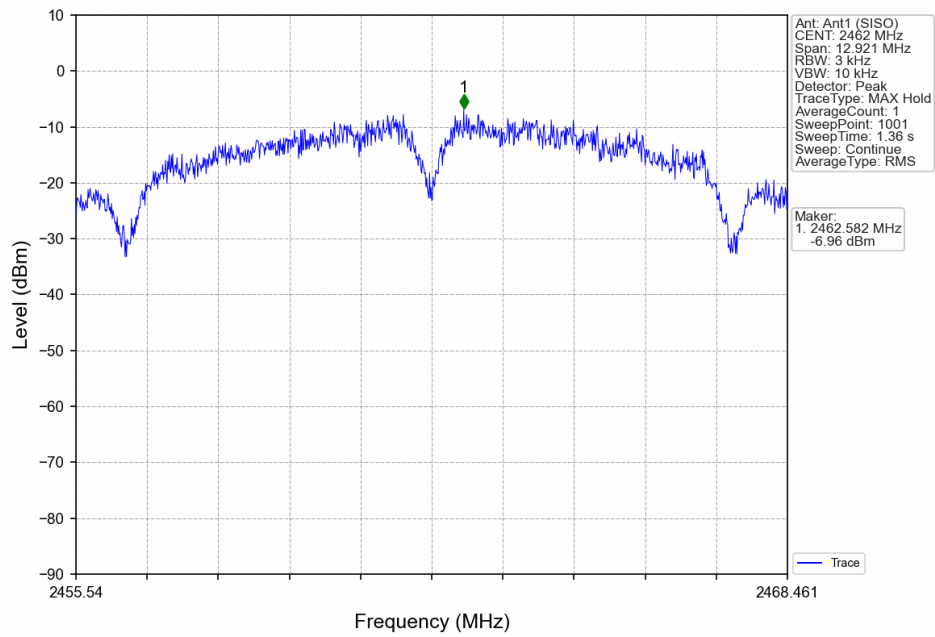
| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       | Verdict |
|----------------|---------|-----------------|------------------------|-------|---------|
|                |         |                 | ANT1                   | Limit |         |
| 802.11b        | SISO    | 2412            | -6.02                  | <=8   | Pass    |
|                |         | 2437            | -6.31                  | <=8   | Pass    |
|                |         | 2462            | -6.96                  | <=8   | Pass    |
| 802.11g        | SISO    | 2412            | -10.20                 | <=8   | Pass    |
|                |         | 2437            | -9.66                  | <=8   | Pass    |
|                |         | 2462            | -10.60                 | <=8   | Pass    |
| 802.11n (HT20) | SISO    | 2412            | -9.03                  | <=8   | Pass    |
|                |         | 2437            | -9.78                  | <=8   | Pass    |
|                |         | 2462            | -10.54                 | <=8   | Pass    |
| 802.11n (HT40) | SISO    | 2422            | -13.04                 | <=8   | Pass    |
|                |         | 2437            | -13.87                 | <=8   | Pass    |
|                |         | 2452            | -14.04                 | <=8   | Pass    |

Note1: Antenna Gain: Ant1: 3.50dBi;

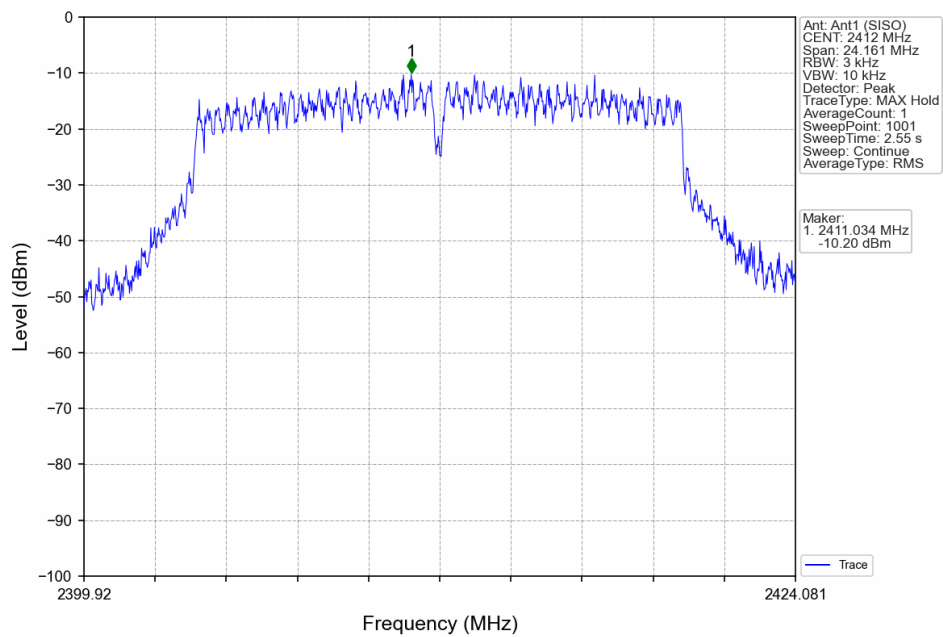
### 4.1.2 Test Graph



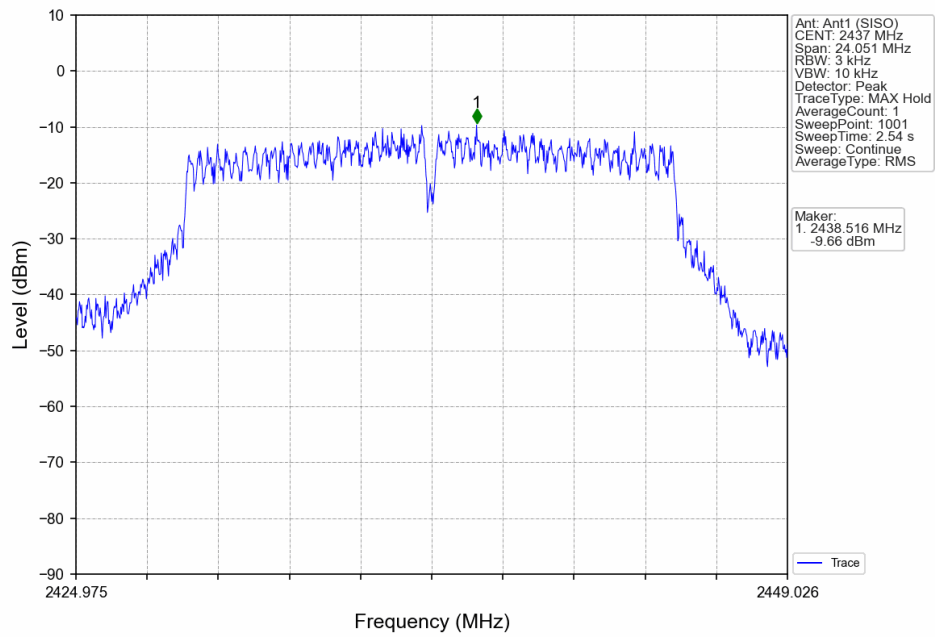
## 802.11b HCH 2462MHz Ant1 (SISO) NTN



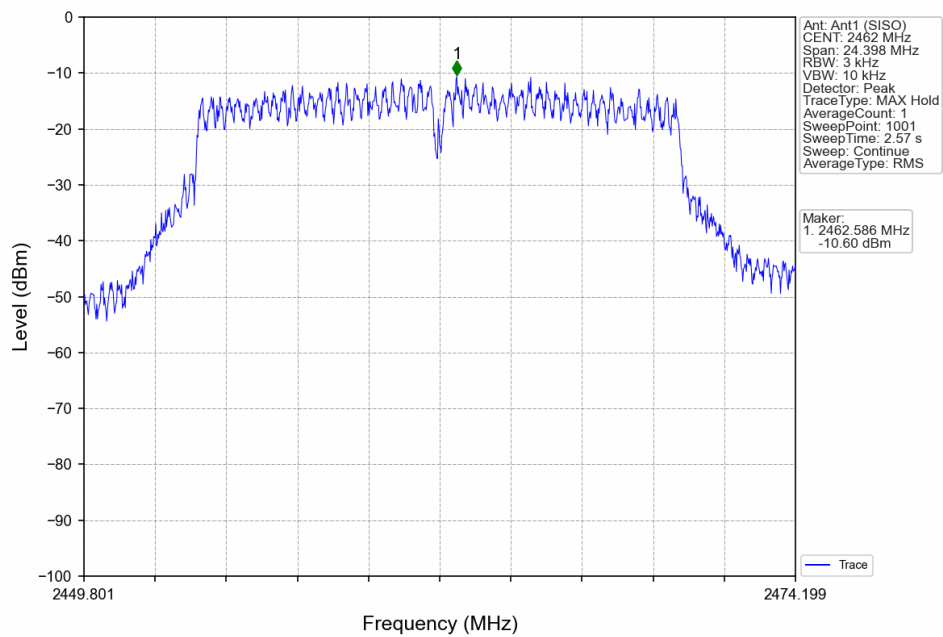
## 802.11g LCH 2412MHz Ant1 (SISO) NTN



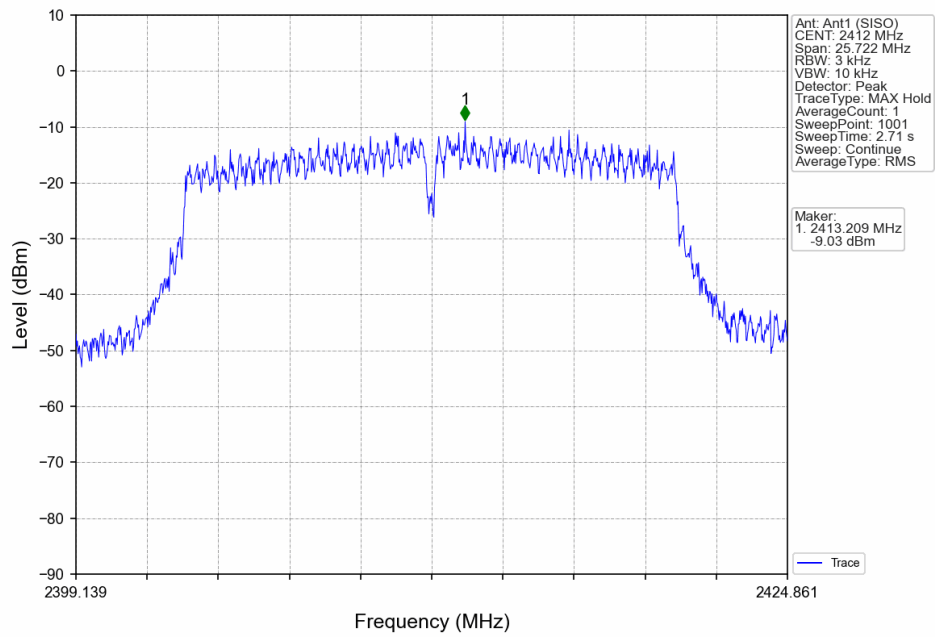
## 802.11g MCH 2437MHz Ant1 (SISO) NTNV



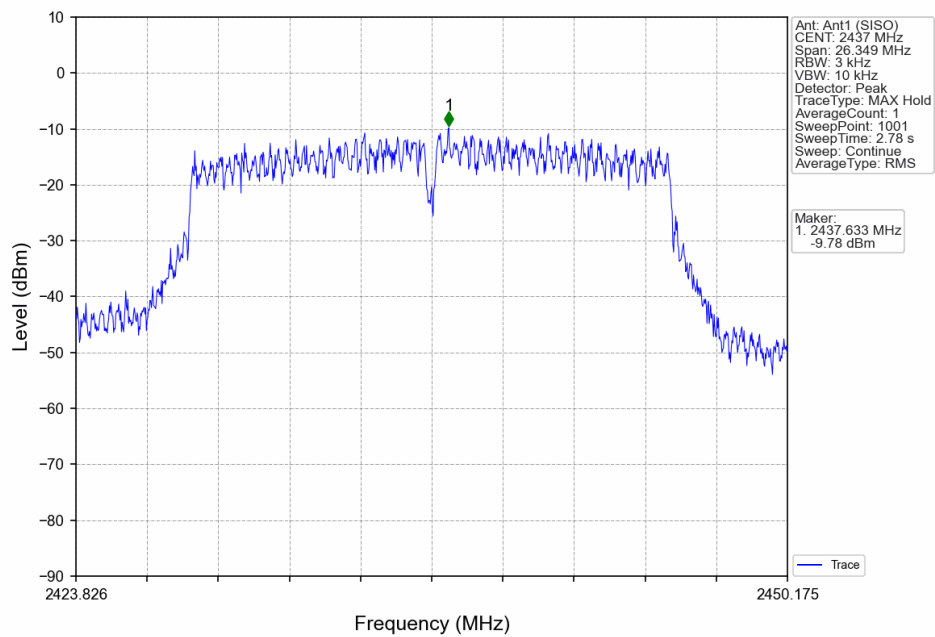
## 802.11g HCH 2462MHz Ant1 (SISO) NTNV



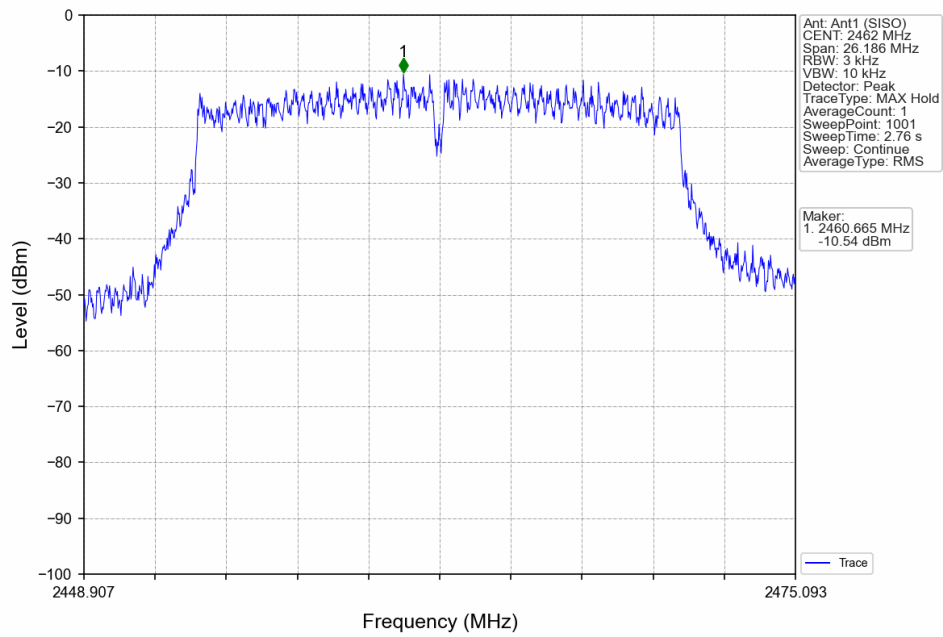
## 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



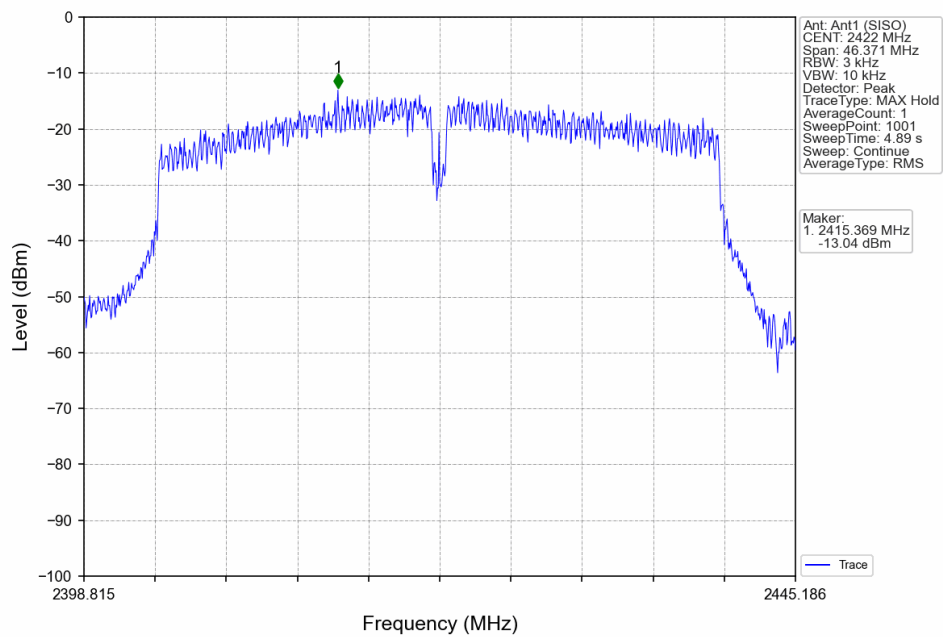
## 802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



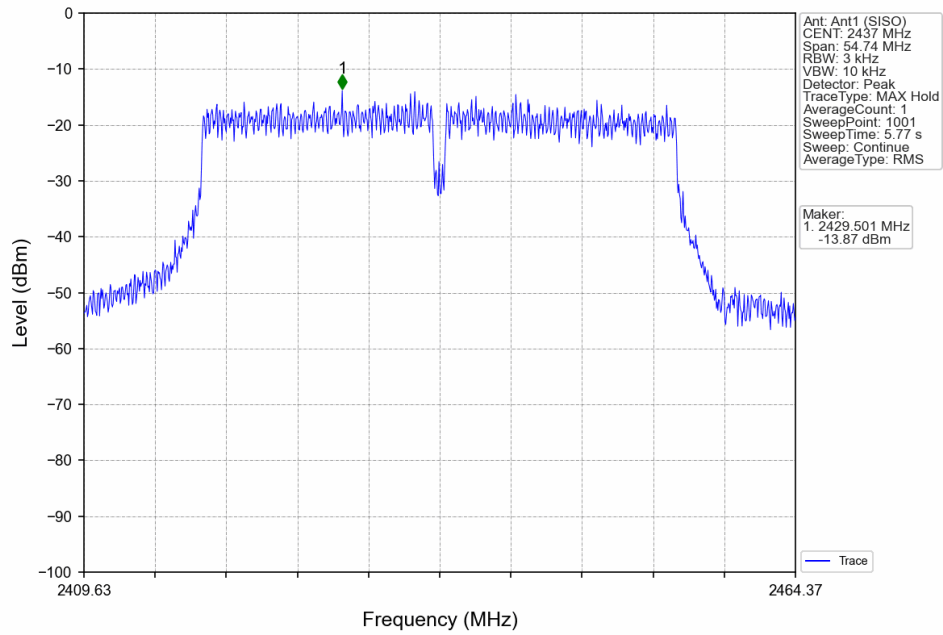
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



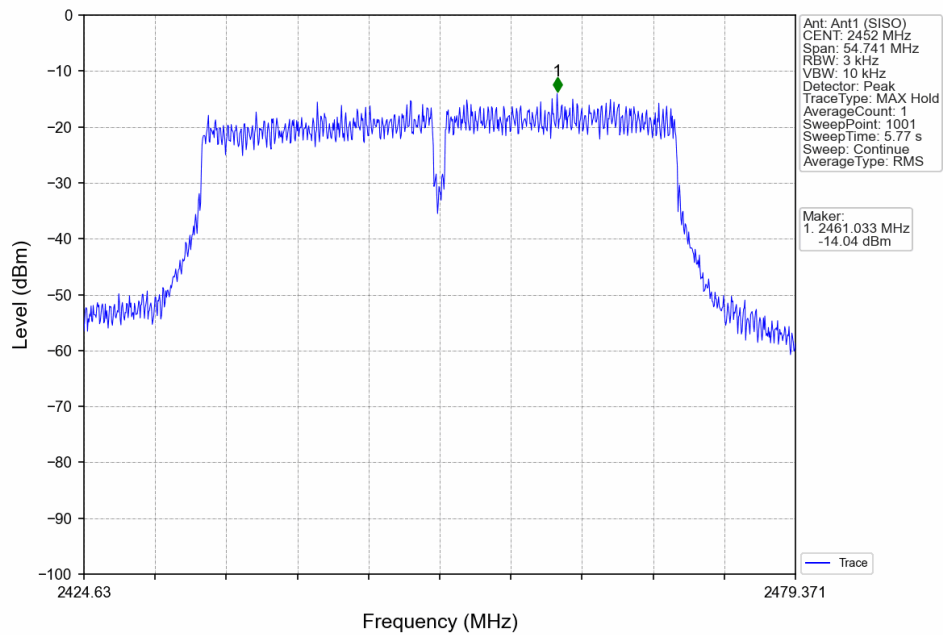
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



## 802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



## 802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



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

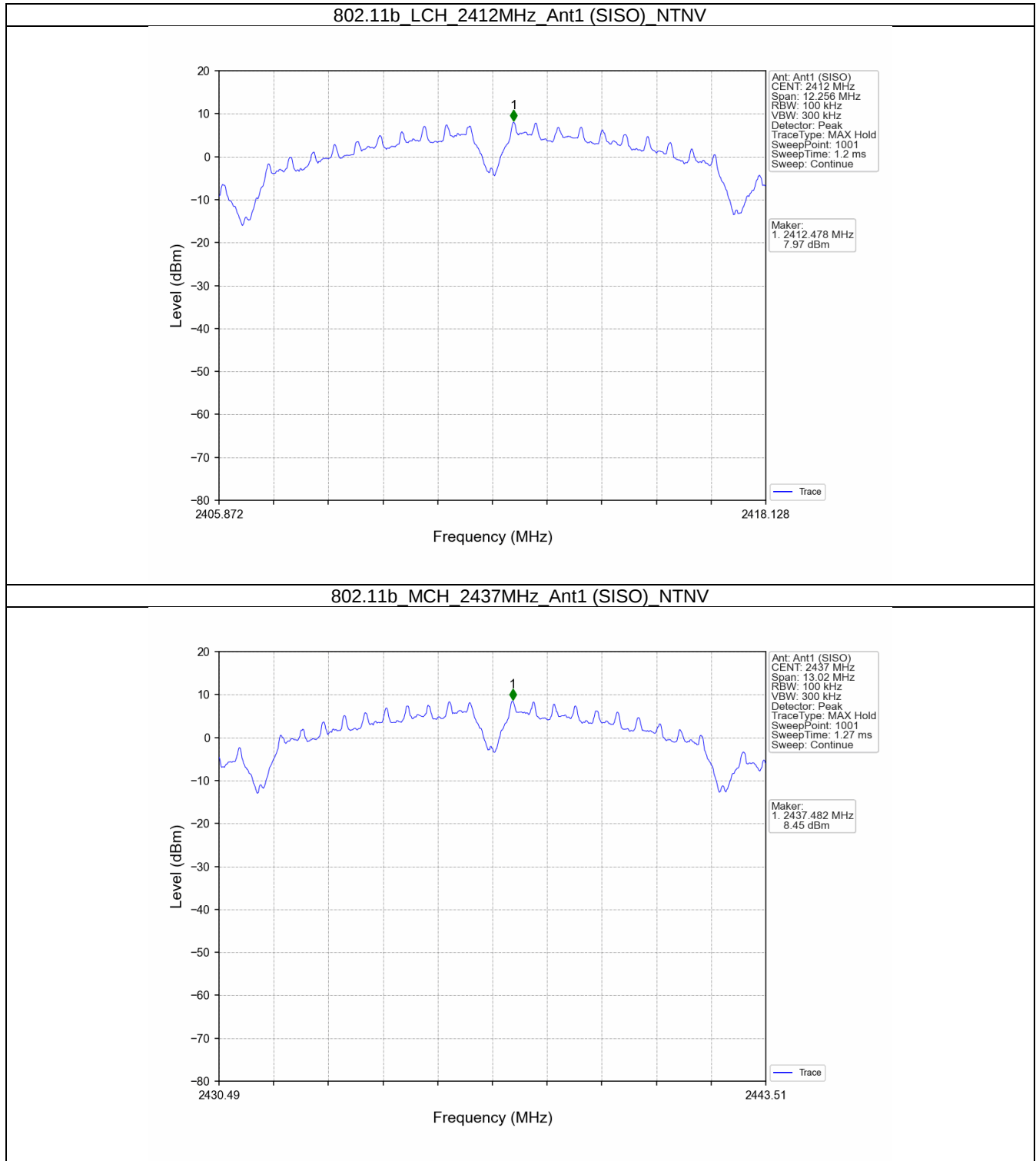
### 5.1 Ref

#### 5.1.1 Test Result

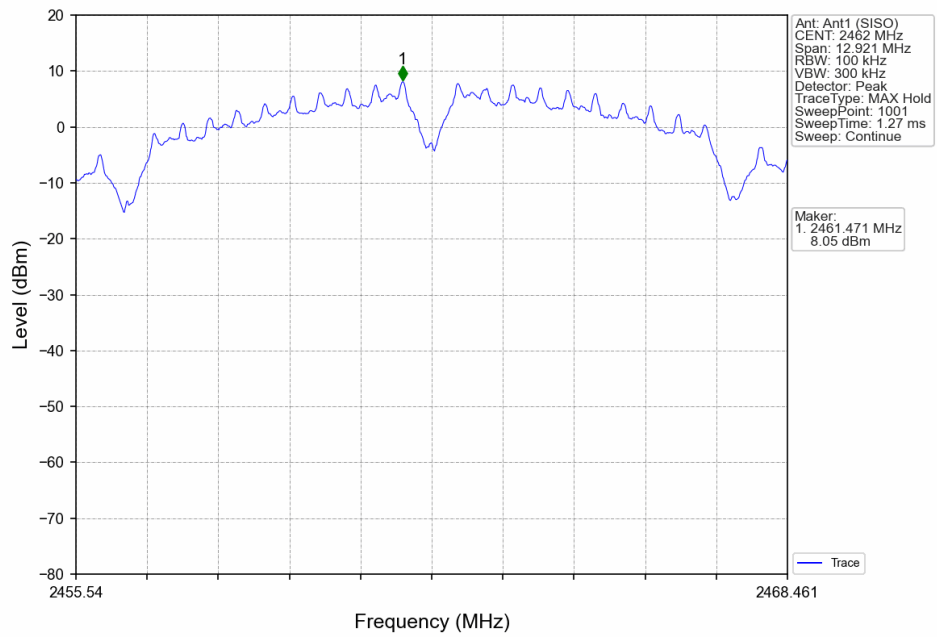
| Mode           | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b        | SISO    | 2412            | 1   | 7.97                     |
|                |         | 2437            | 1   | 8.45                     |
|                |         | 2462            | 1   | 8.05                     |
| 802.11g        | SISO    | 2412            | 1   | 4.67                     |
|                |         | 2437            | 1   | 5.49                     |
|                |         | 2462            | 1   | 4.70                     |
| 802.11n (HT20) | SISO    | 2412            | 1   | 4.79                     |
|                |         | 2437            | 1   | 5.32                     |
|                |         | 2462            | 1   | 4.65                     |
| 802.11n (HT40) | SISO    | 2422            | 1   | 2.11                     |
|                |         | 2437            | 1   | 0.28                     |
|                |         | 2452            | 1   | 0.41                     |

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.

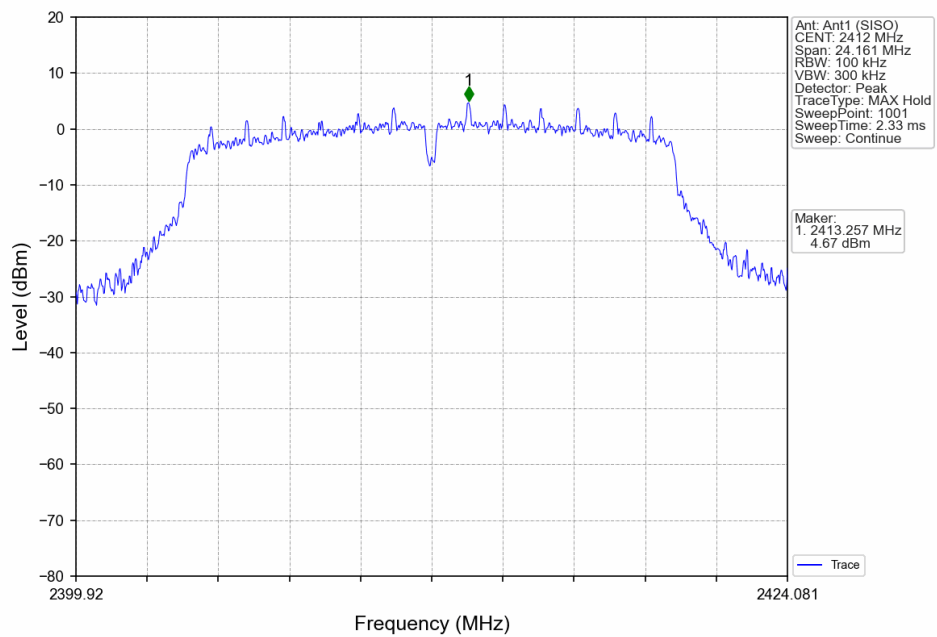
## 5.1.2 Test Graph



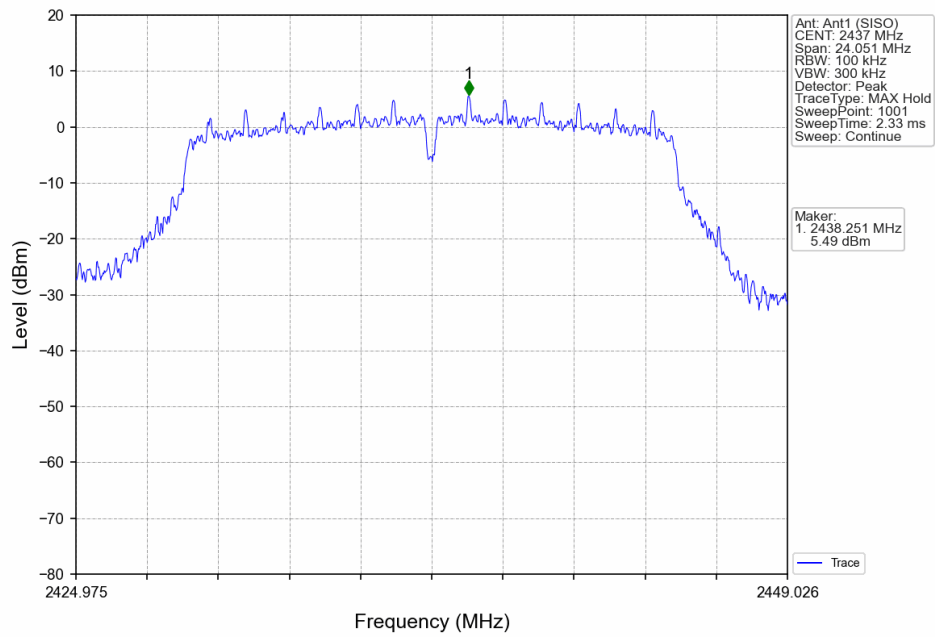
## 802.11b HCH 2462MHz Ant1 (SISO) NTN



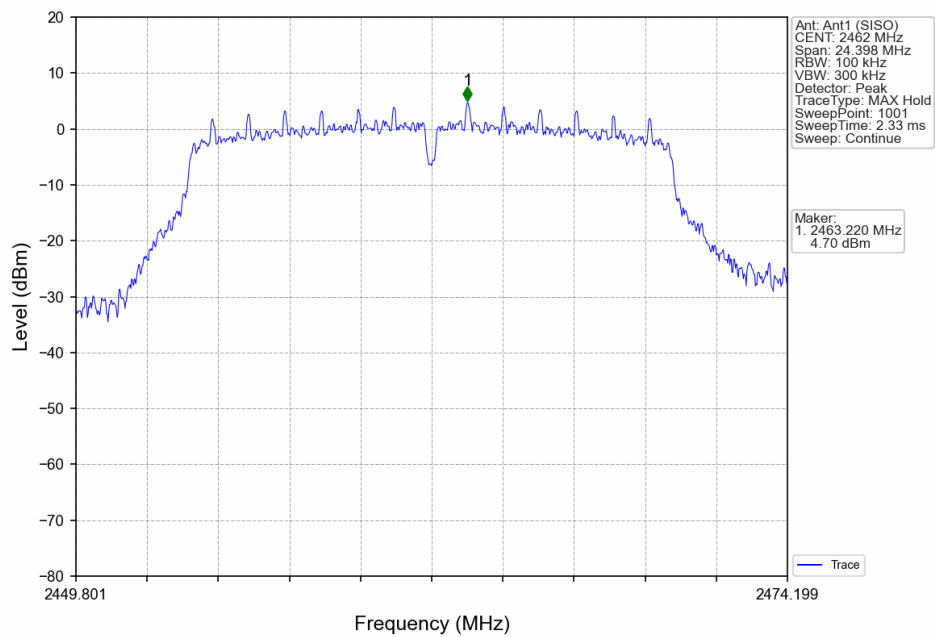
## 802.11g LCH 2412MHz Ant1 (SISO) NTN



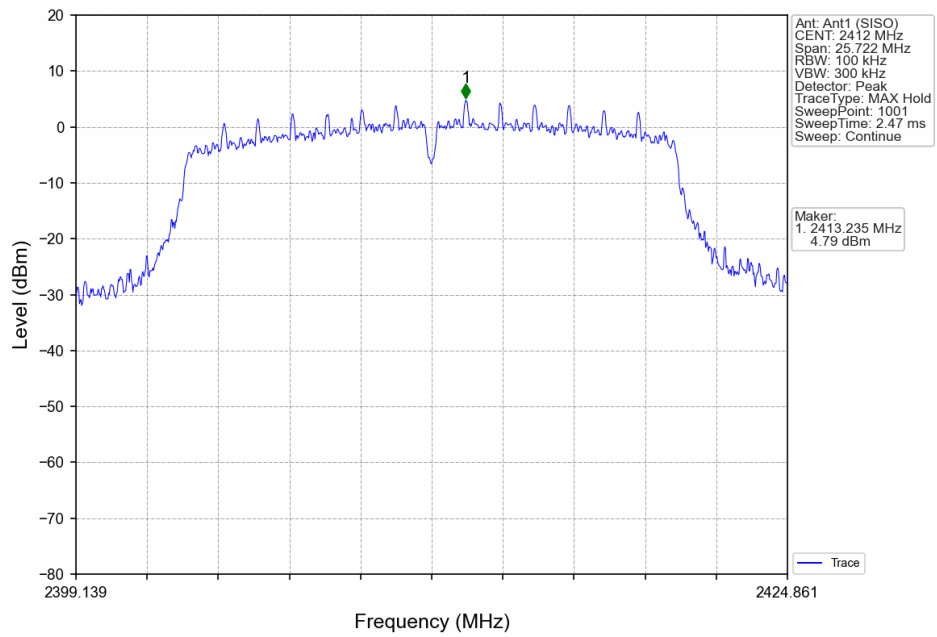
## 802.11g MCH 2437MHz Ant1 (SISO) NTN



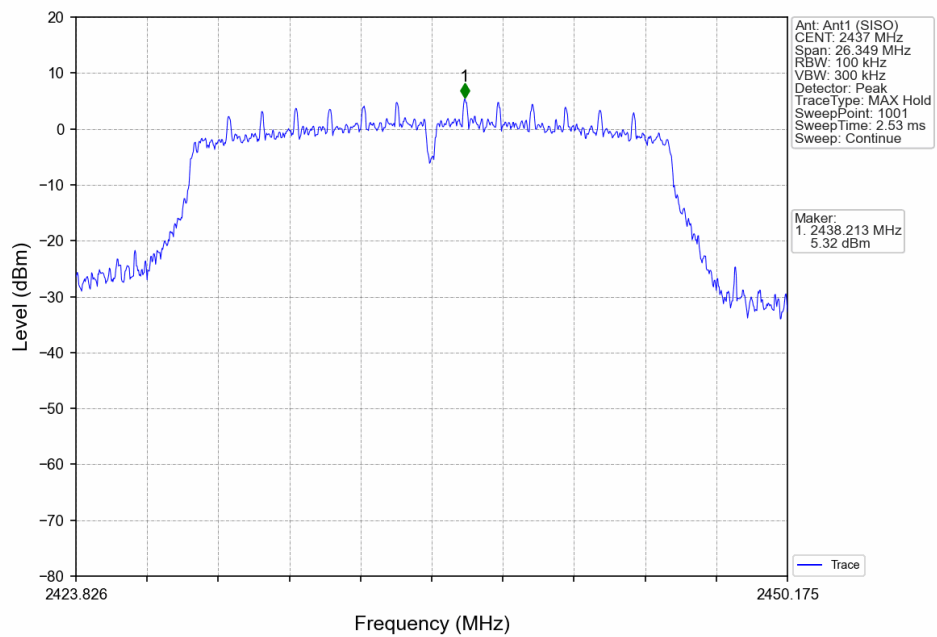
## 802.11g HCH 2462MHz Ant1 (SISO) NTN



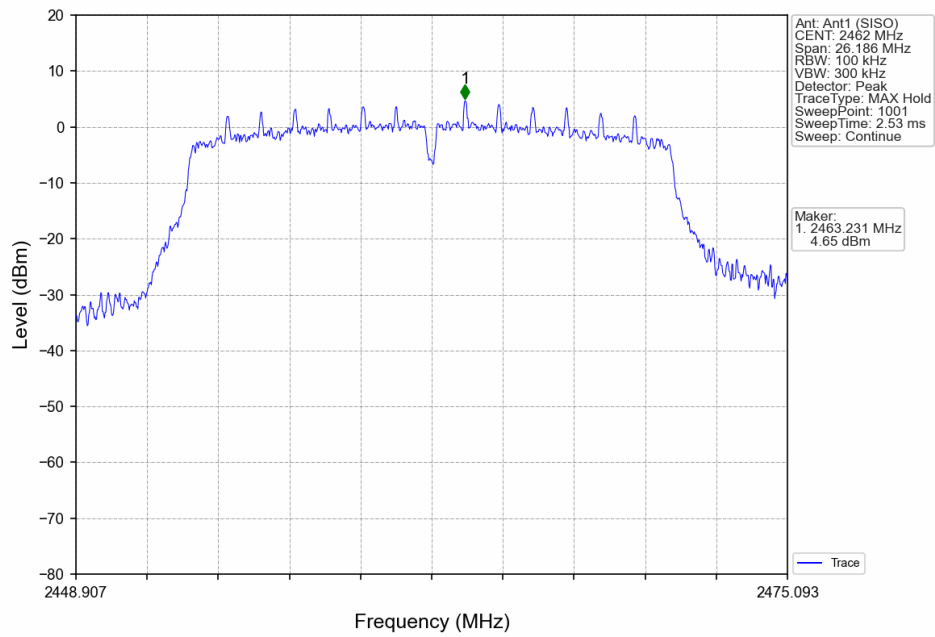
## 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



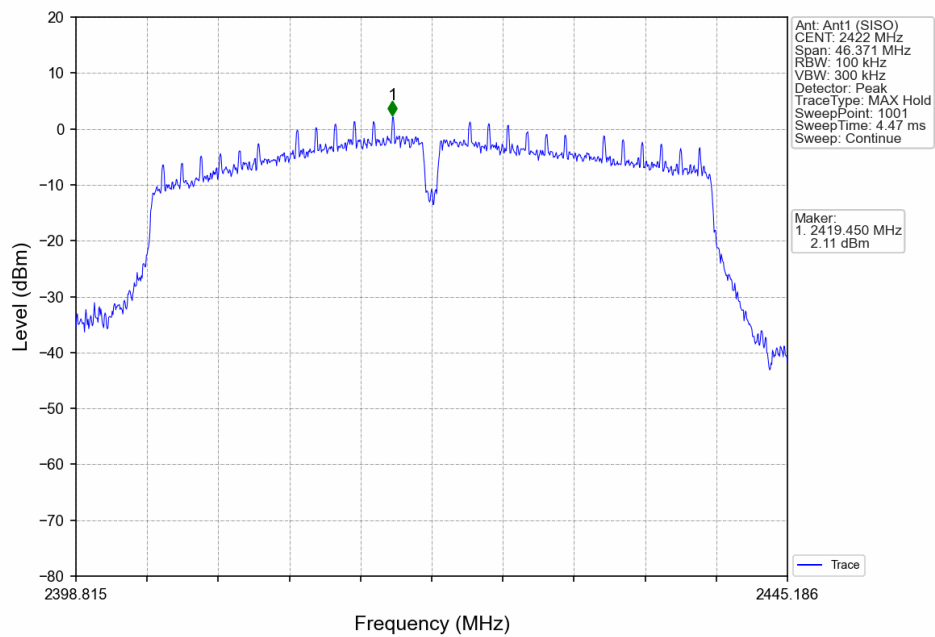
## 802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



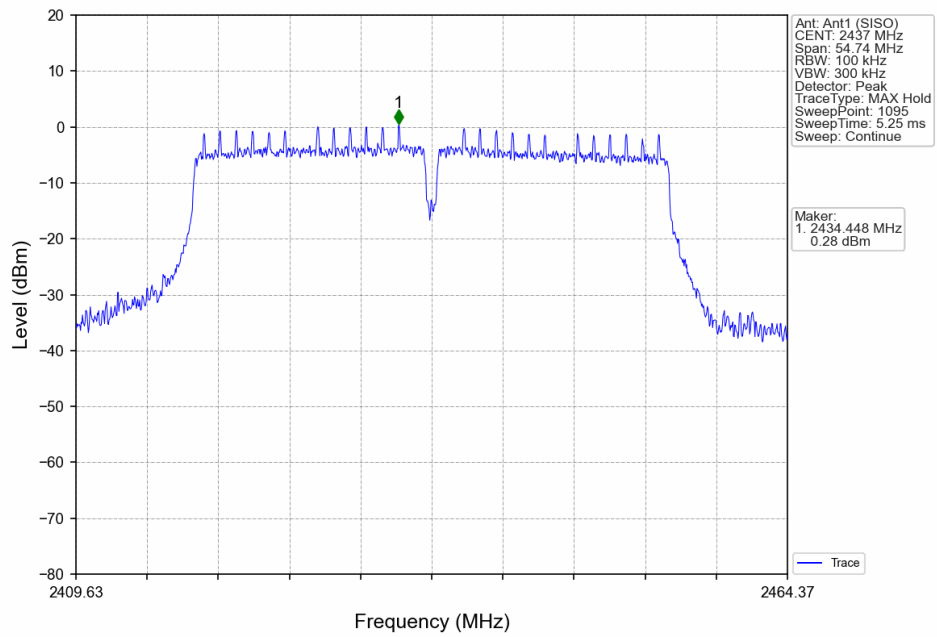
## 802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



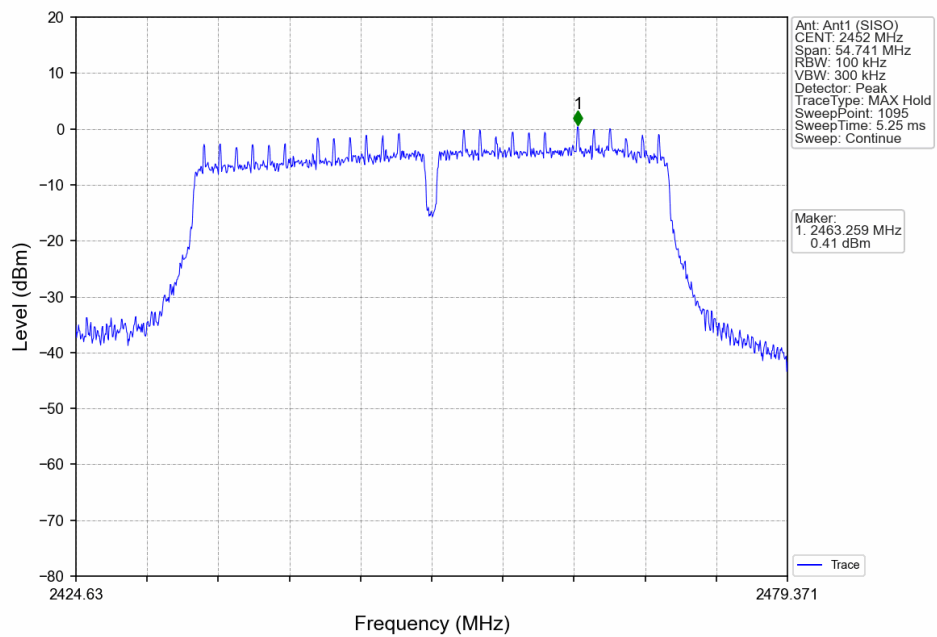
## 802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



## 802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV

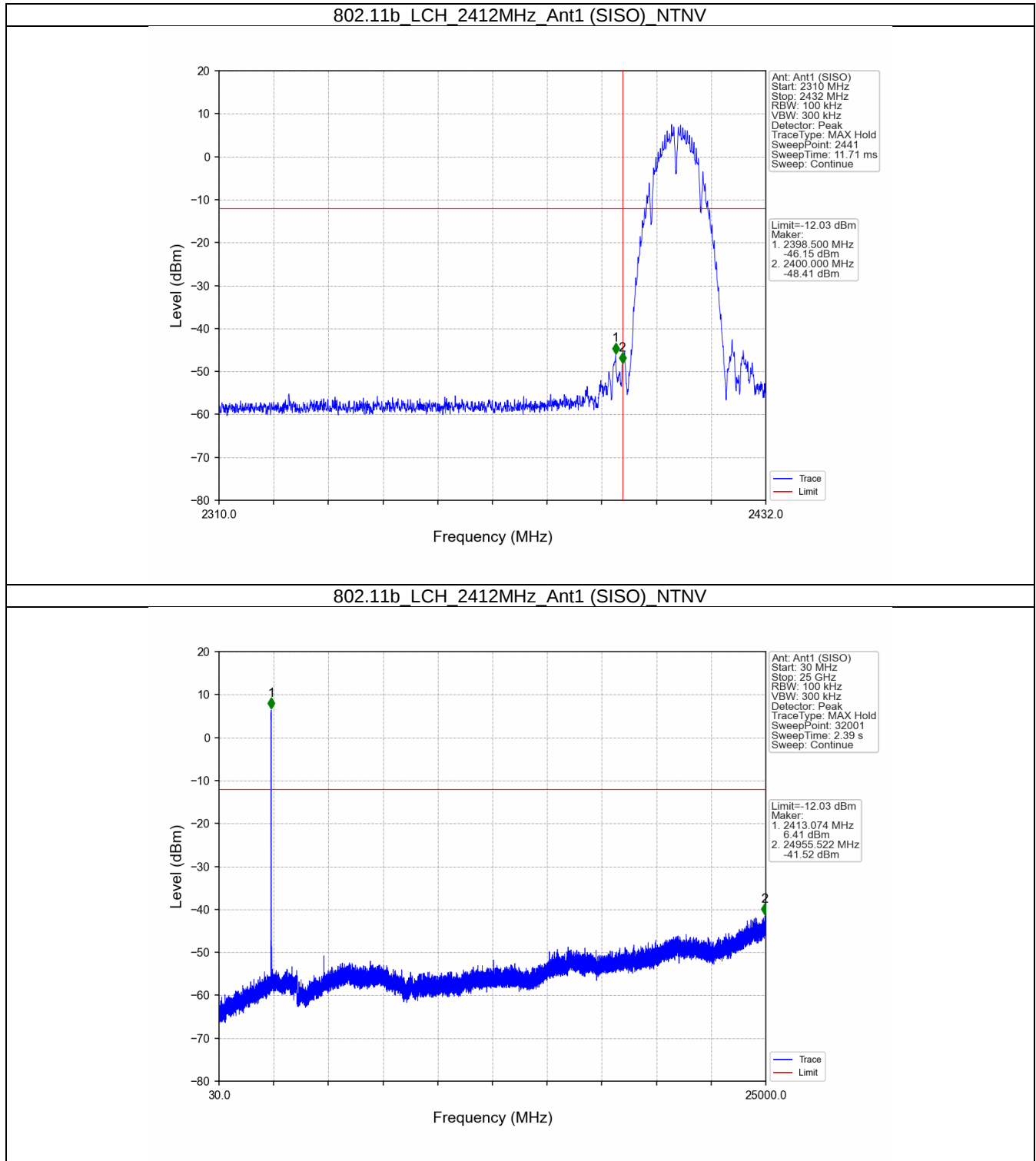


## 802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV

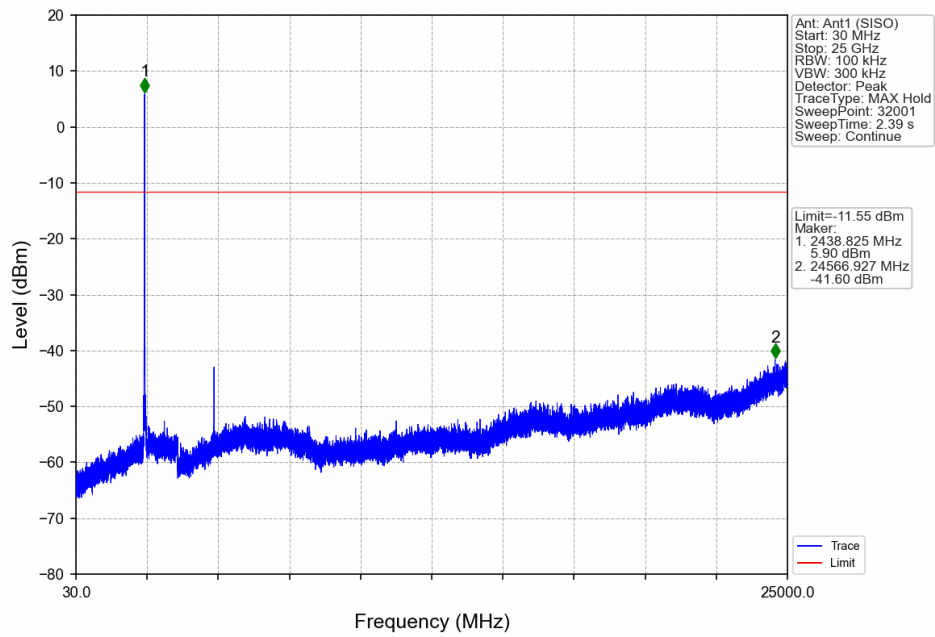


Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

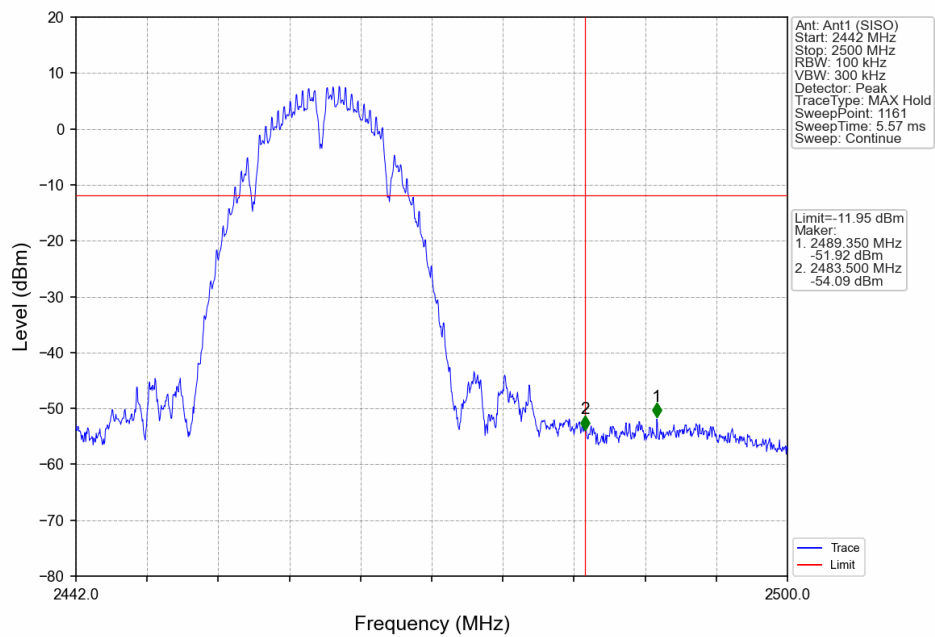
## 5.2.2 Test Graph



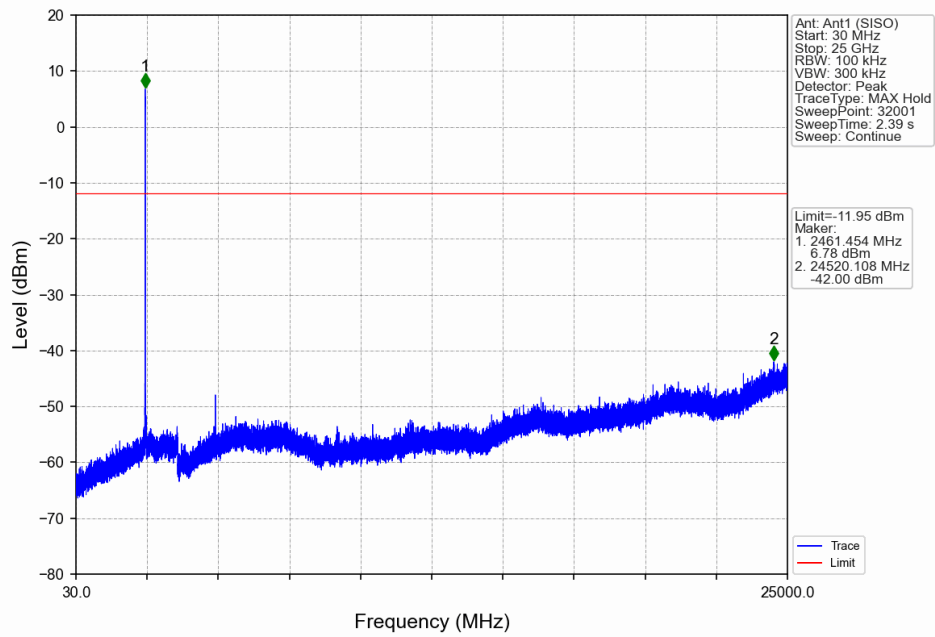
## 802.11b MCH 2437MHz Ant1 (SISO) NTNV



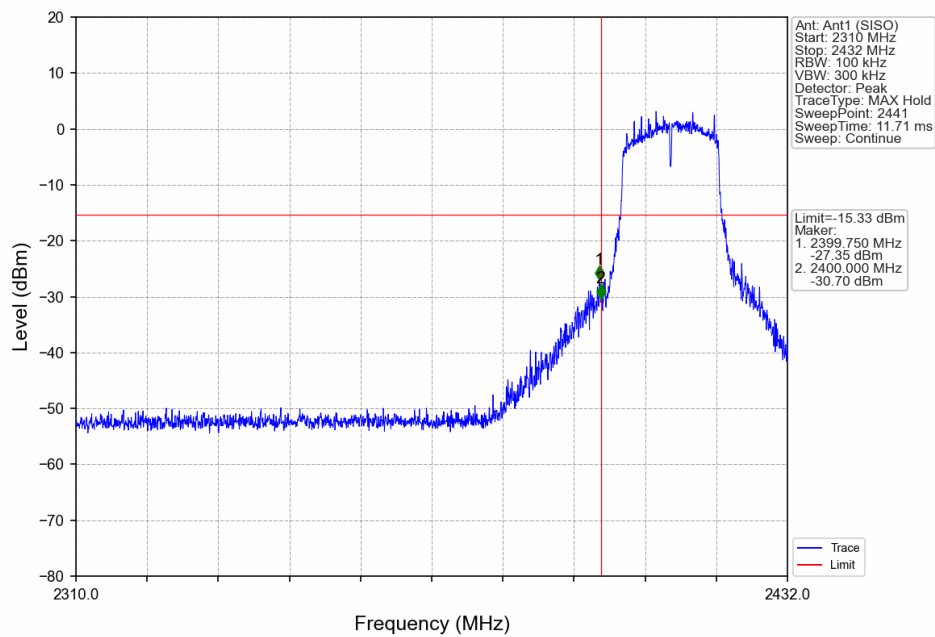
## 802.11b HCH 2462MHz Ant1 (SISO) NTNV



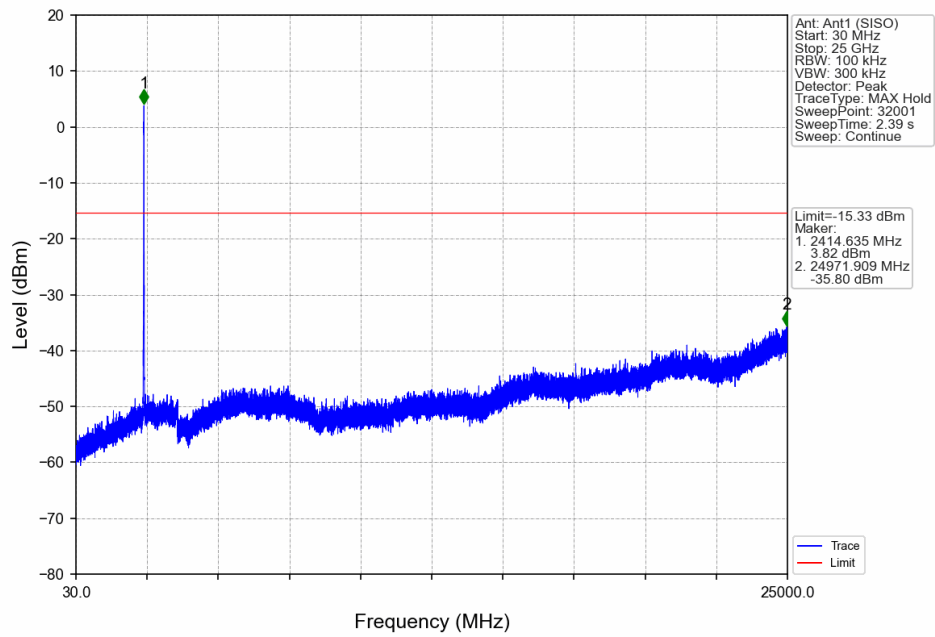
## 802.11b HCH 2462MHz Ant1 (SISO) NTN



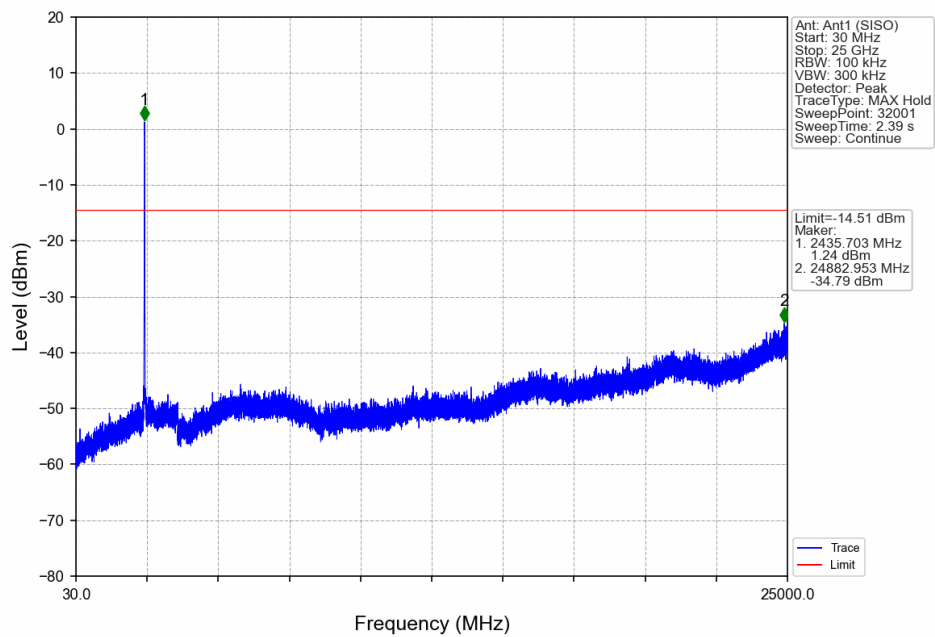
## 802.11g LCH 2412MHz Ant1 (SISO) NTN



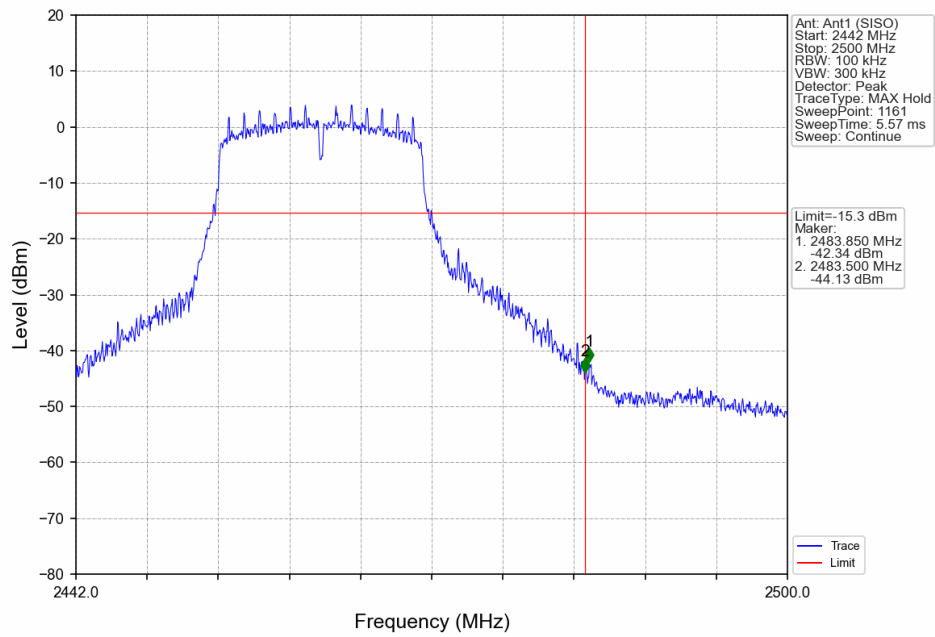
## 802.11g LCH 2412MHz Ant1 (SISO) NTN



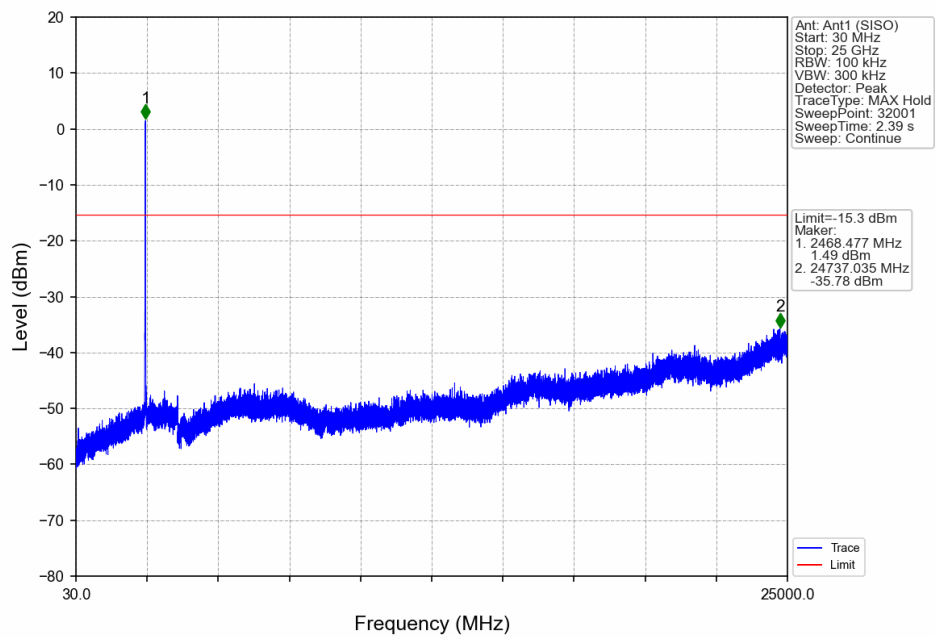
## 802.11g MCH 2437MHz Ant1 (SISO) NTN



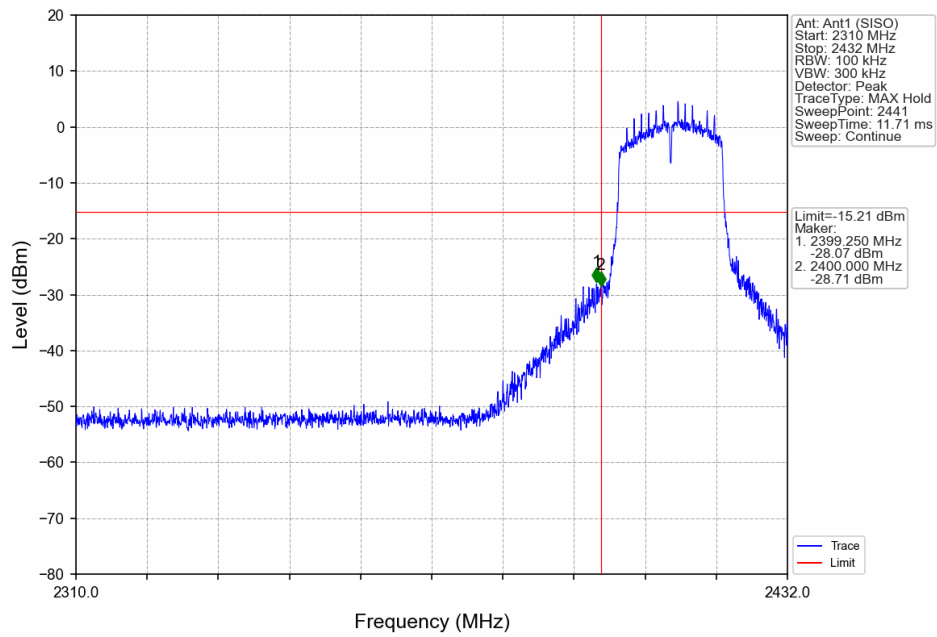
## 802.11g HCH 2462MHz Ant1 (SISO) NTN



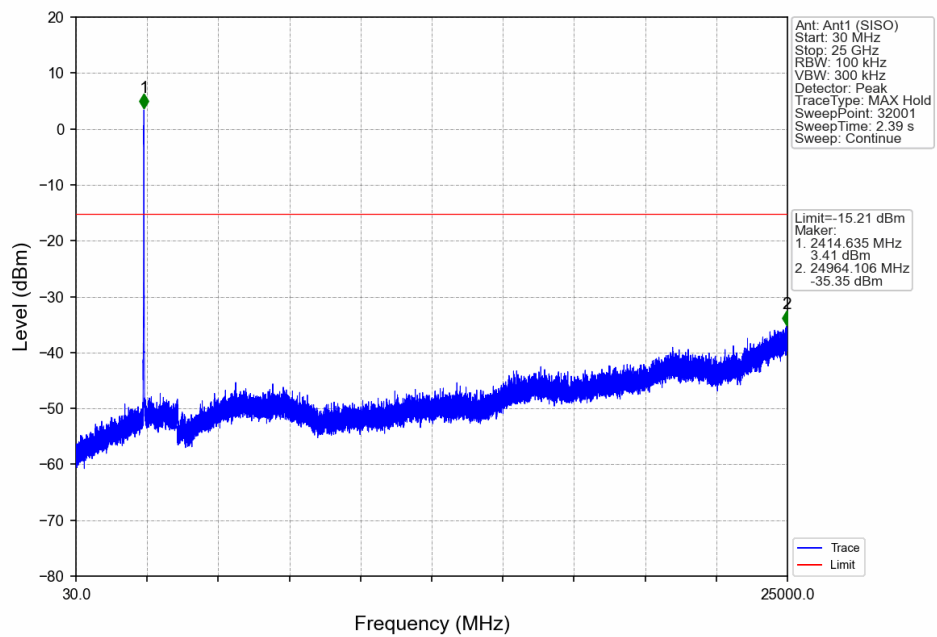
## 802.11g HCH 2462MHz Ant1 (SISO) NTN



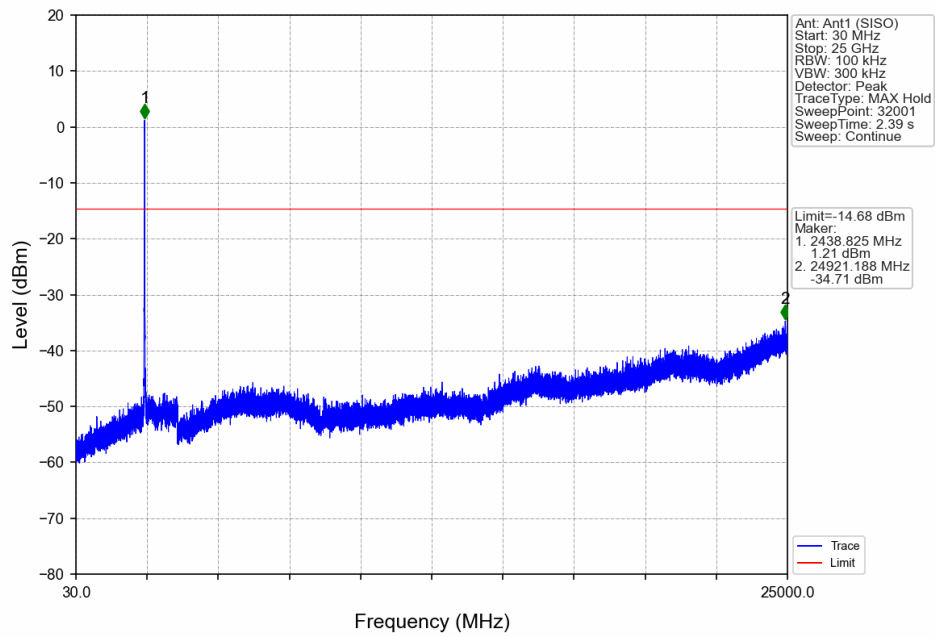
## 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



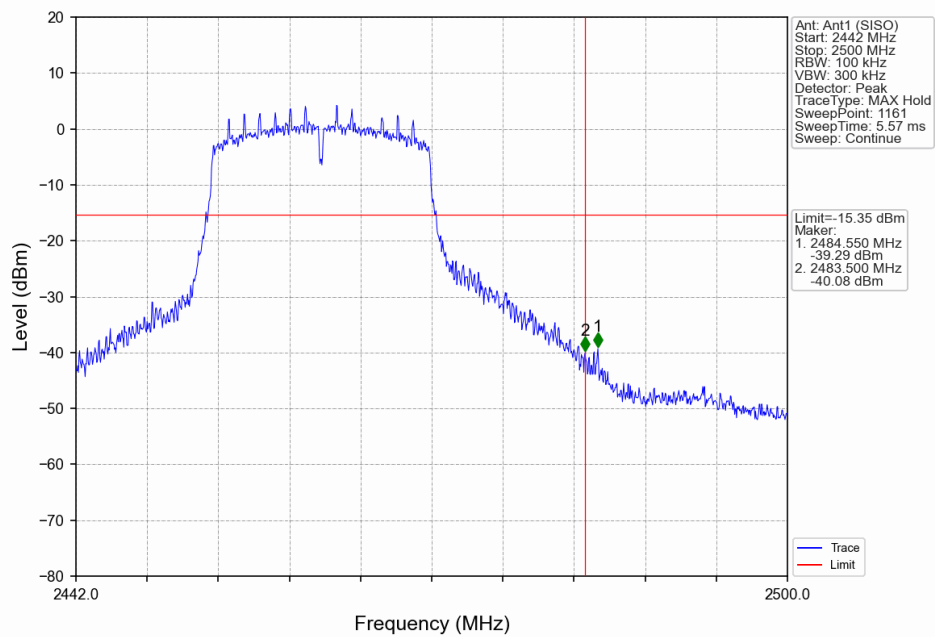
## 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



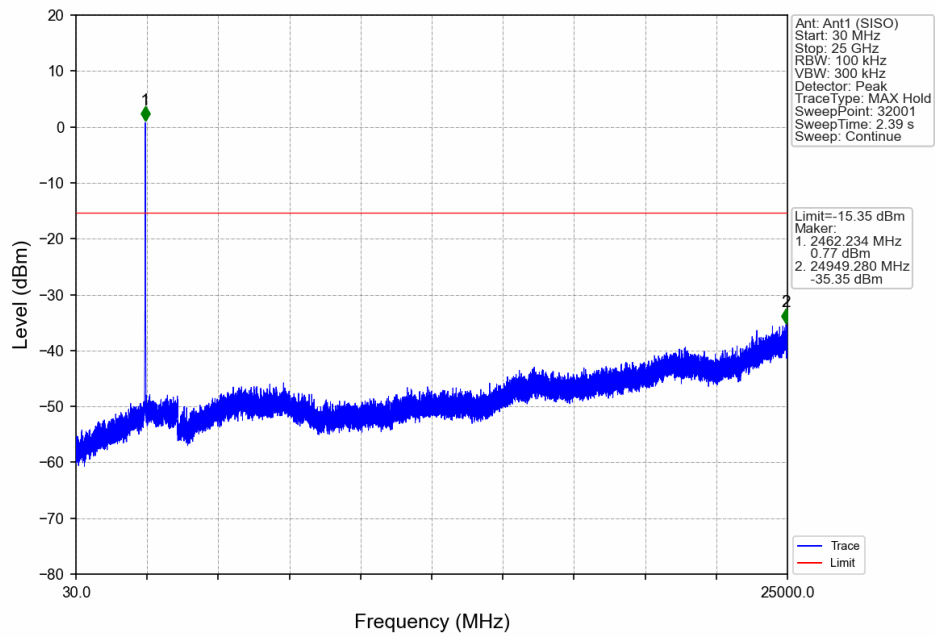
## 802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



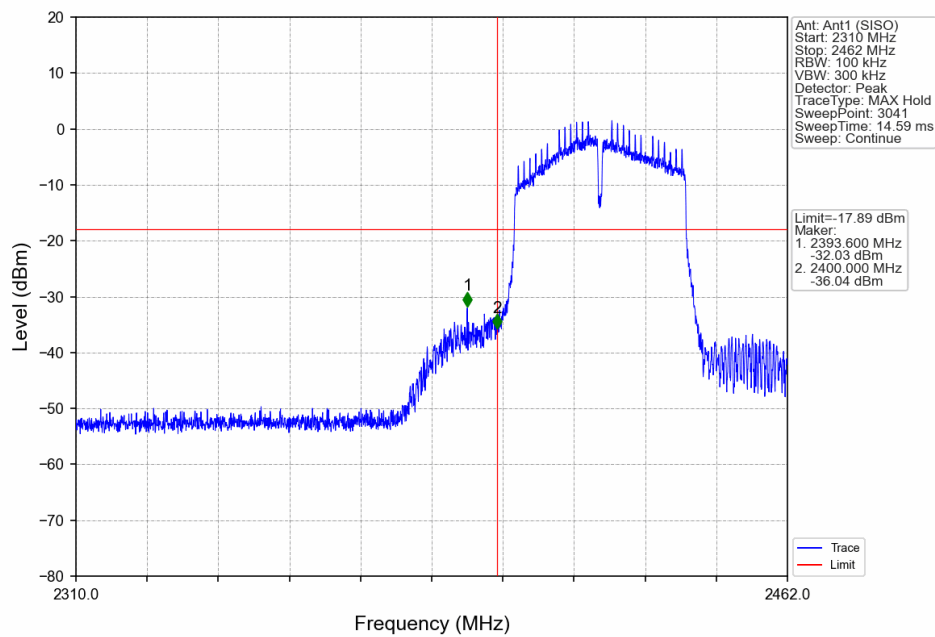
## 802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



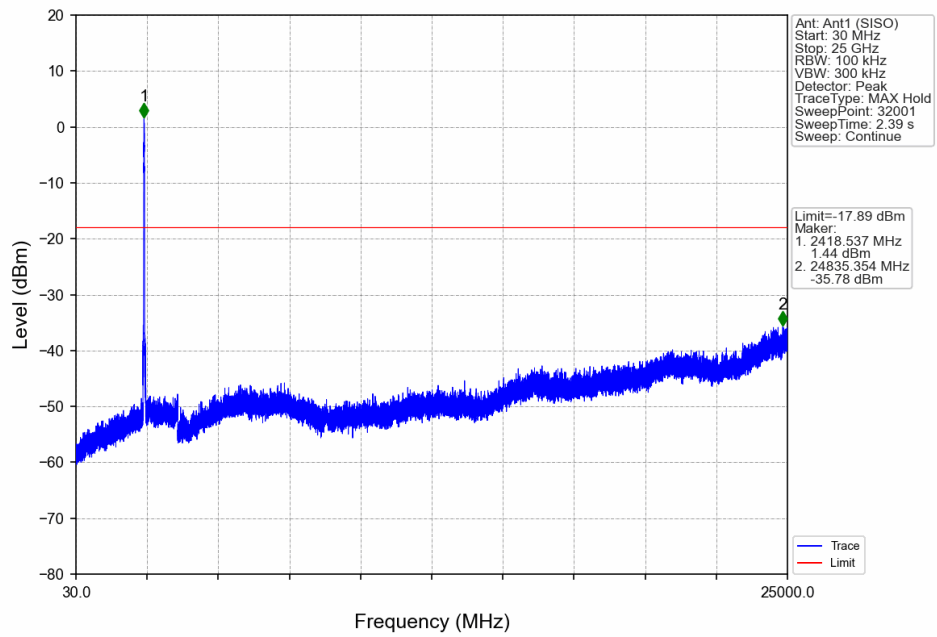
## 802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



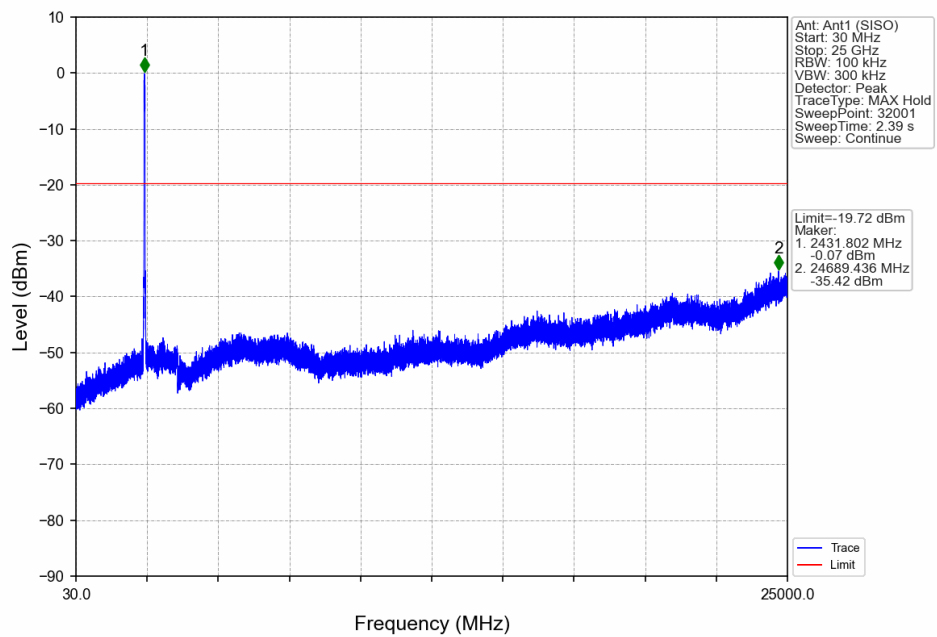
## 802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



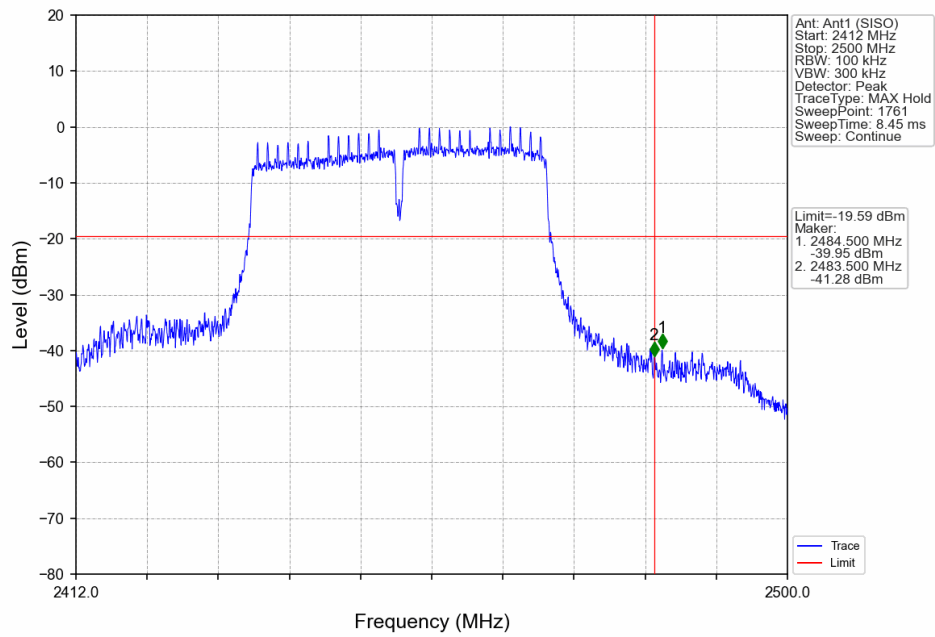
## 802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



## 802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



## 802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



## 802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV

