

## 1. Duty Cycle

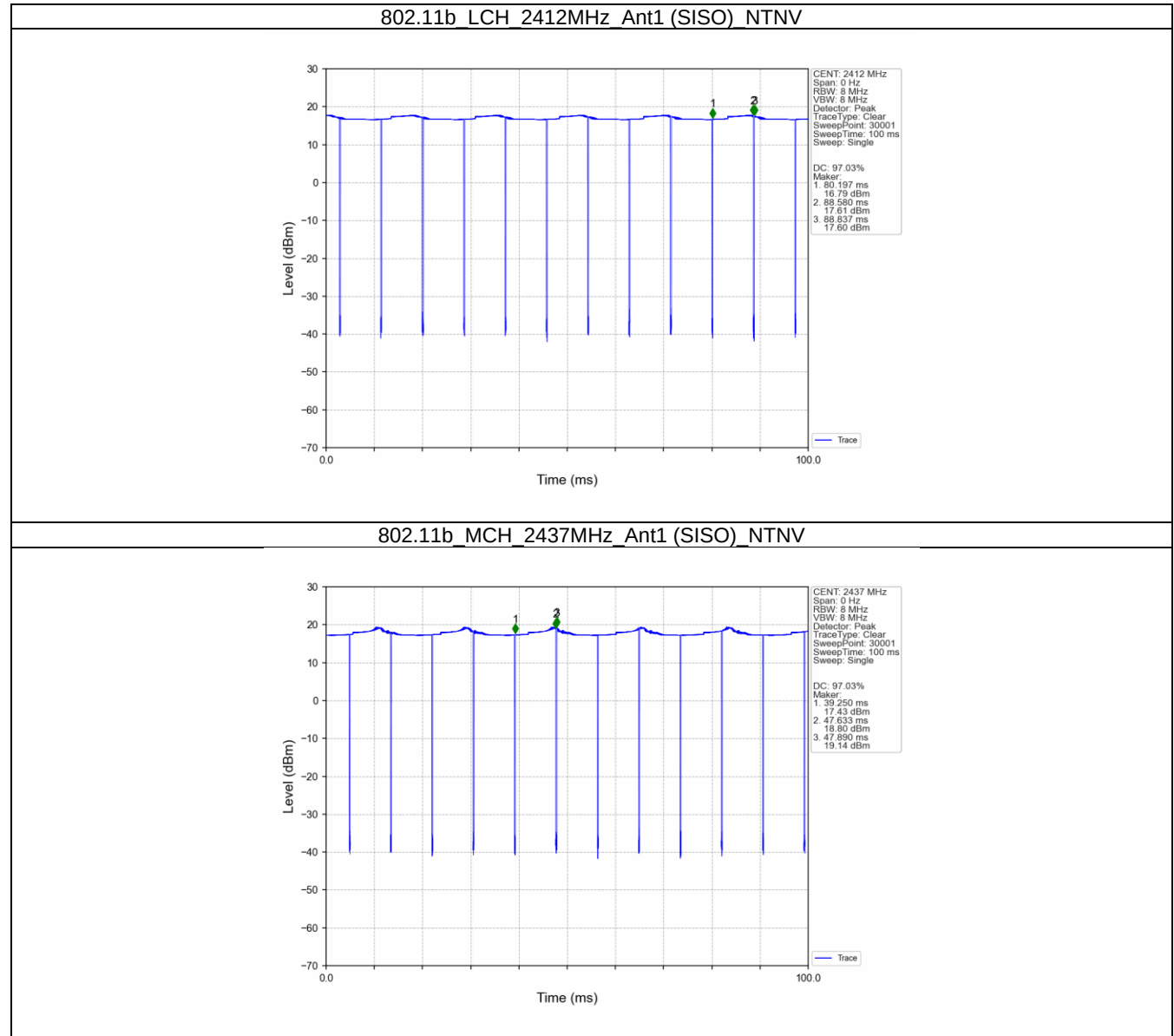
### 1.1 Test Result

#### 1.1.1 Ant1

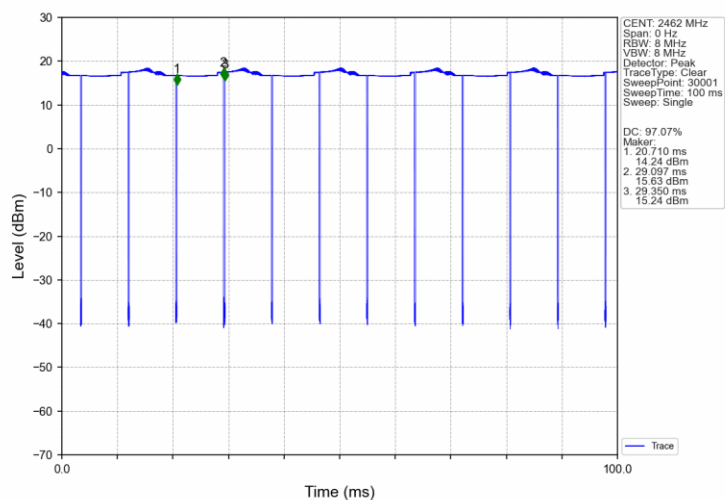
| Ant1           |         |                 |           |             |                |                                   |                       |
|----------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| 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     | 8.640       | 97.03          | 0.13                              | 0.95                  |
|                |         | 2437            | 8.383     | 8.640       | 97.03          | 0.13                              | 0.95                  |
|                |         | 2462            | 8.387     | 8.640       | 97.07          | 0.13                              | 0.83                  |
| 802.11g        | SISO    | 2412            | 1.392     | 1.652       | 84.26          | 0.74                              | 4.87                  |
|                |         | 2437            | 1.392     | 1.644       | 84.67          | 0.72                              | 4.94                  |
|                |         | 2462            | 1.393     | 1.653       | 84.27          | 0.74                              | 4.86                  |
| 802.11n (HT20) | SISO    | 2412            | 1.175     | 1.435       | 81.88          | 0.87                              | 5.52                  |
|                |         | 2437            | 1.174     | 1.435       | 81.81          | 0.87                              | 5.52                  |
|                |         | 2462            | 1.174     | 1.426       | 82.33          | 0.84                              | 4.97                  |
| 802.11n (HT40) | SISO    | 2422            | 0.587     | 0.847       | 69.30          | 1.59                              | 8.27                  |
|                |         | 2437            | 0.587     | 0.874       | 67.16          | 1.73                              | 10.42                 |
|                |         | 2452            | 0.588     | 0.874       | 67.28          | 1.72                              | 10.43                 |

## 1.2 Test Graph

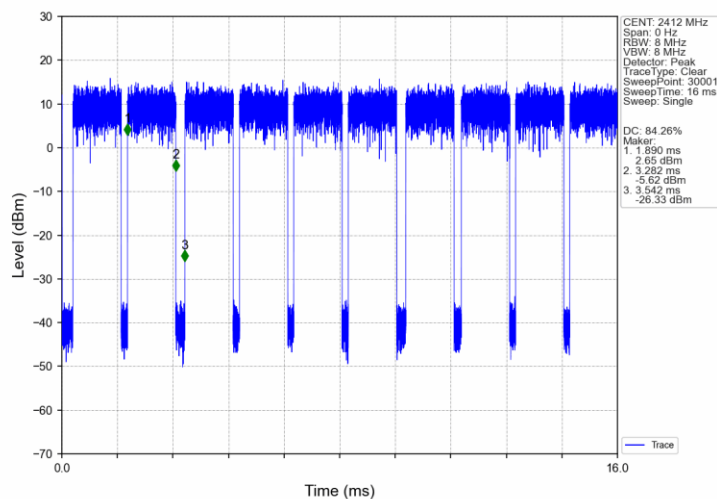
### 1.2.1 Ant1



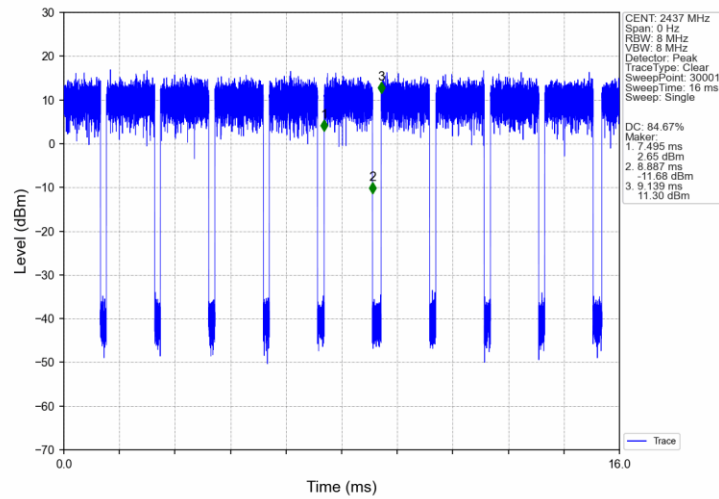
## 802.11b HCH 2462MHz\_Ant1 (SISO) NTNv



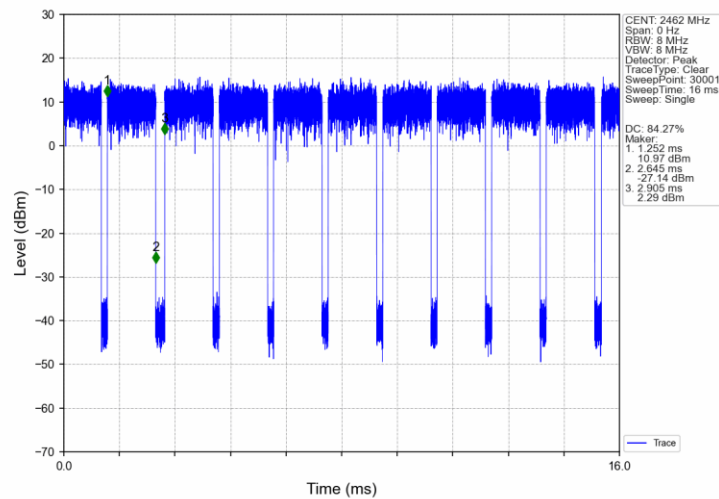
## 802.11g LCH 2412MHz\_Ant1 (SISO) NTNv



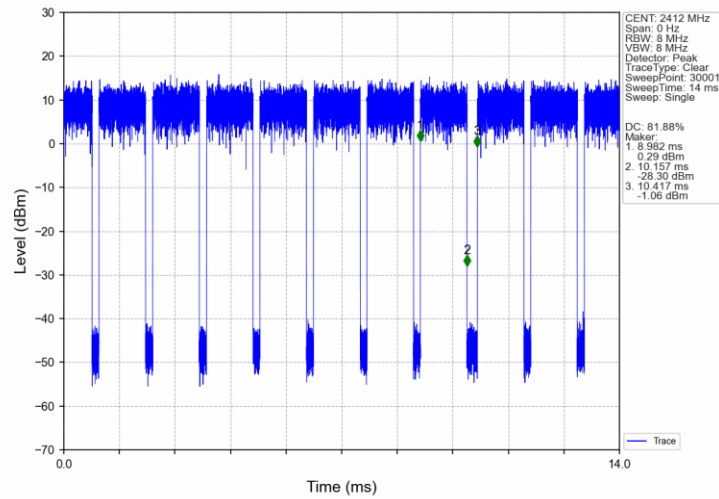
## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



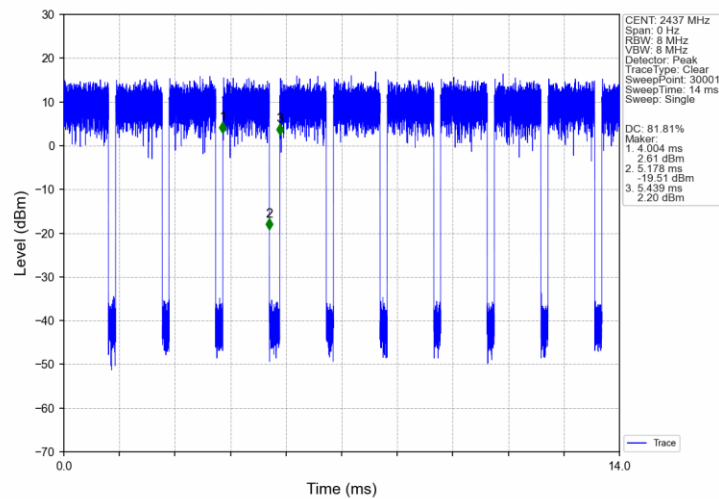
## 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



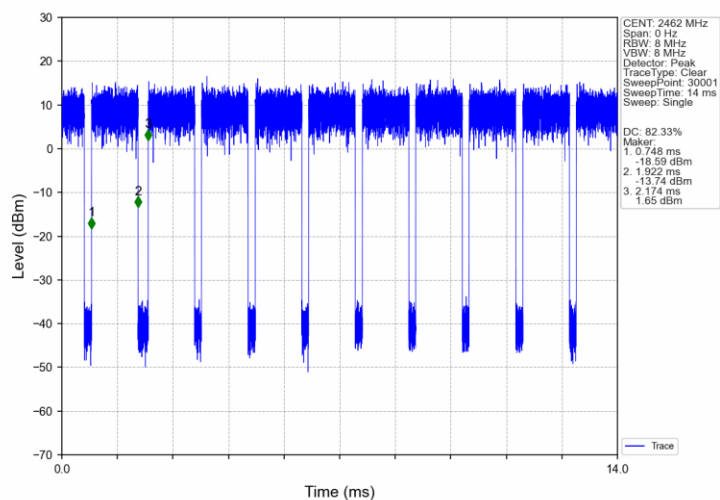
## 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



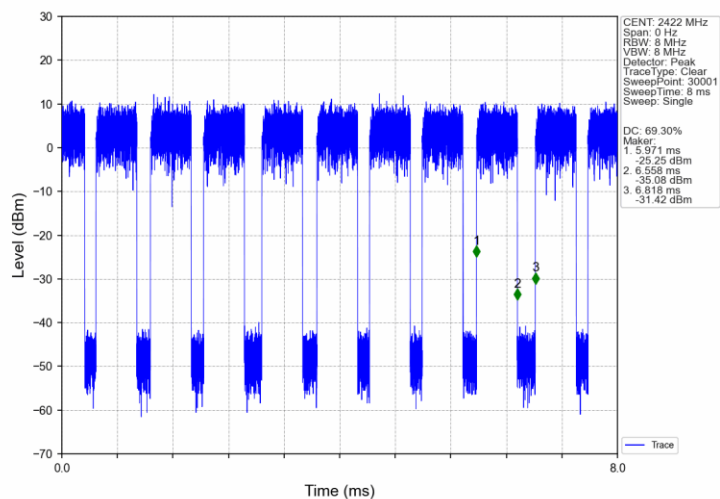
## 802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



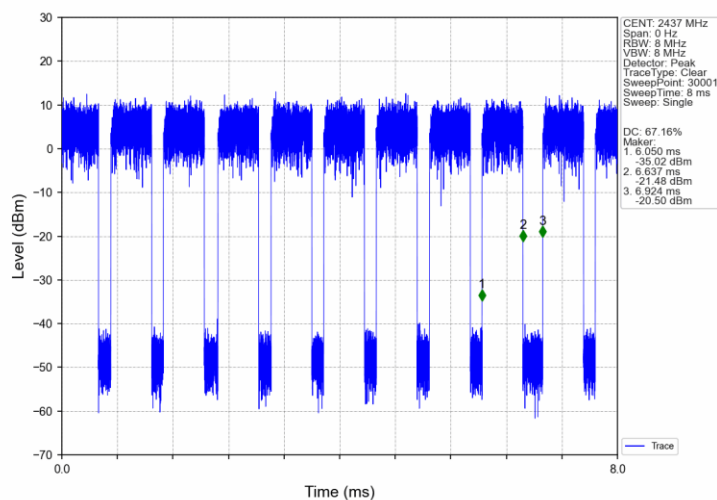
## 802.11n(HT20) HCH\_2462MHz\_Ant1 (SISO) NTNV



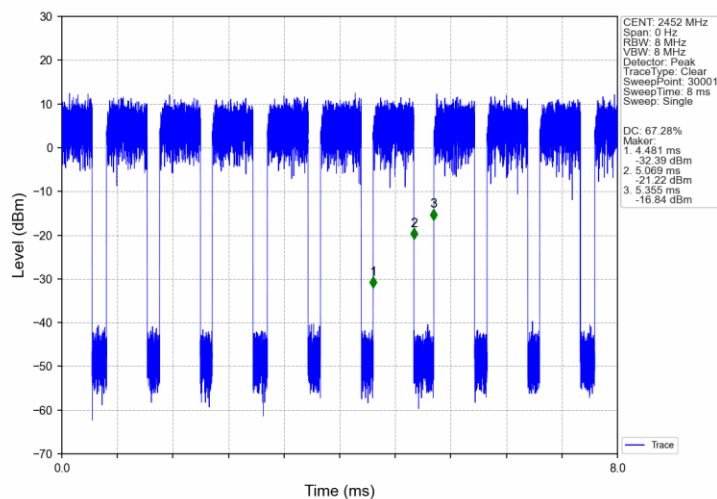
## 802.11n(HT40) LCH\_2422MHz\_Ant1 (SISO) NTNV



## 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   | 11.950                       | /     | Pass    |
|                |         | 2437            | 1   | 12.019                       | /     | Pass    |
|                |         | 2462            | 1   | 12.015                       | /     | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 17.555                       | /     | Pass    |
|                |         | 2437            | 1   | 17.484                       | /     | Pass    |
|                |         | 2462            | 1   | 17.705                       | /     | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 18.248                       | /     | Pass    |
|                |         | 2437            | 1   | 18.132                       | /     | Pass    |
|                |         | 2462            | 1   | 18.430                       | /     | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 37.574                       | /     | Pass    |
|                |         | 2437            | 1   | 36.756                       | /     | Pass    |
|                |         | 2452            | 1   | 36.219                       | /     | Pass    |

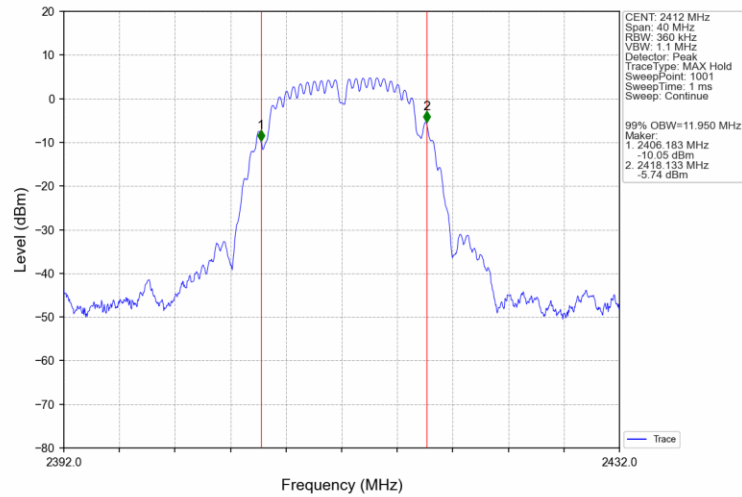
#### 2.1.2 6dB BW

| Mode           | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
|                |         |                 |     | Result              | Limit      |         |
| 802.11b        | SISO    | 2412            | 1   | 9.618               | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 9.612               | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 10.082              | $\geq 0.5$ | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 16.327              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 16.134              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 15.785              | $\geq 0.5$ | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 17.116              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 17.014              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 16.243              | $\geq 0.5$ | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 36.418              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 35.574              | $\geq 0.5$ | Pass    |
|                |         | 2452            | 1   | 35.141              | $\geq 0.5$ | Pass    |

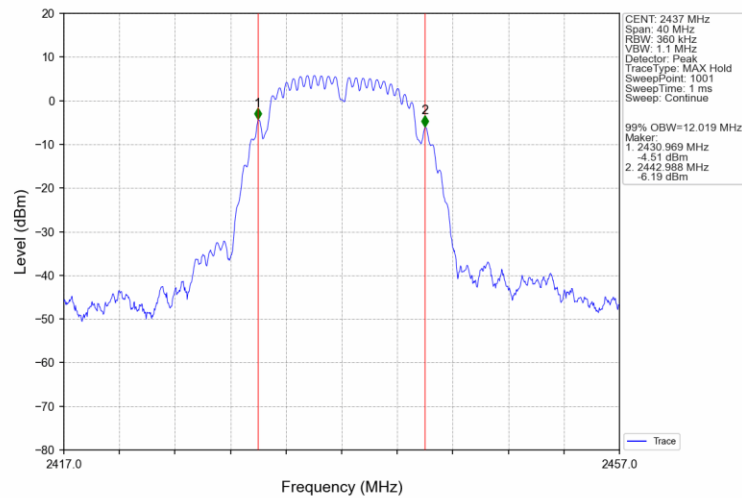
## 2.2 Test Graph

### 2.2.1 OBW

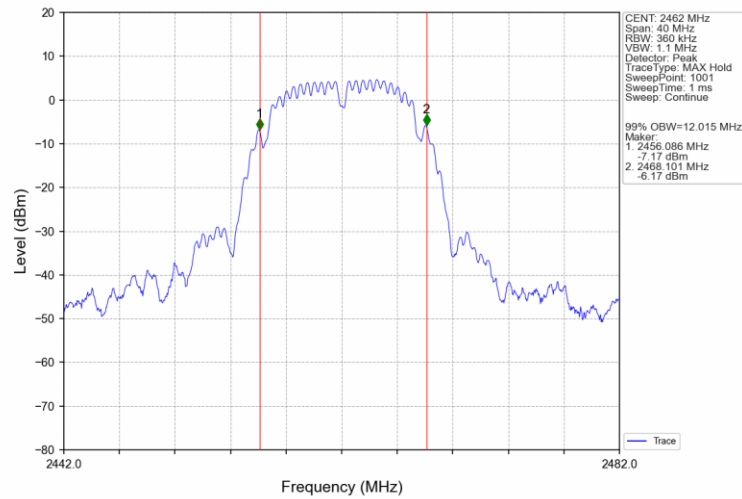
802.11b LCH 2412MHz Ant1 (SISO) NTN



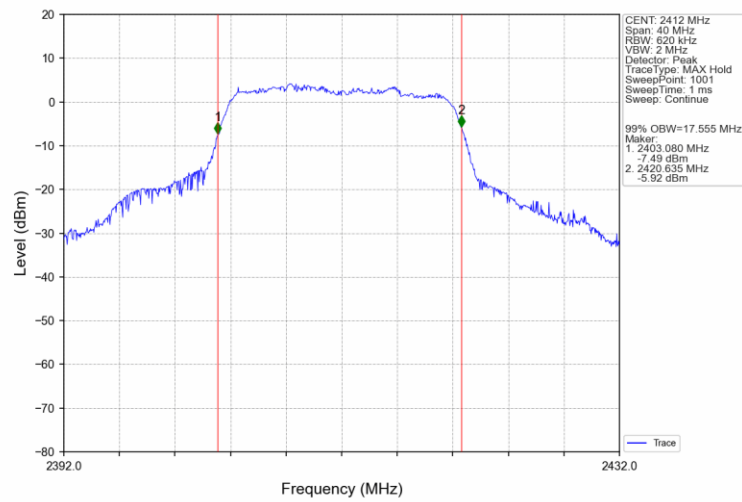
802.11b MCH 2437MHz Ant1 (SISO) NTN



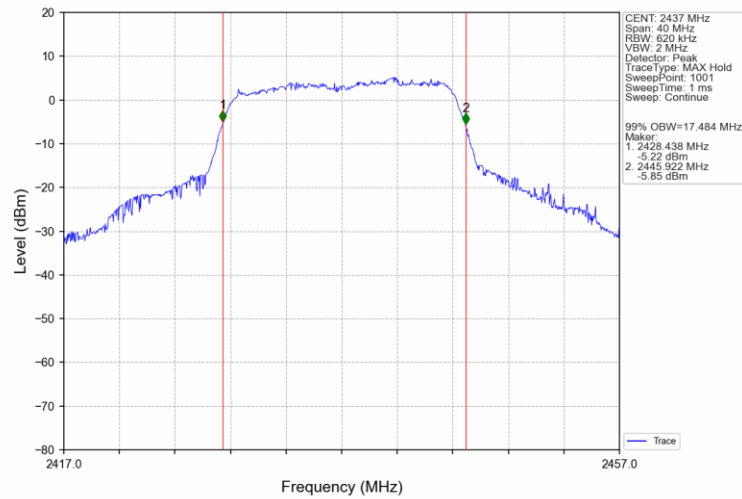
## 802.11b HCH 2462MHz\_Ant1 (SISO) NTN



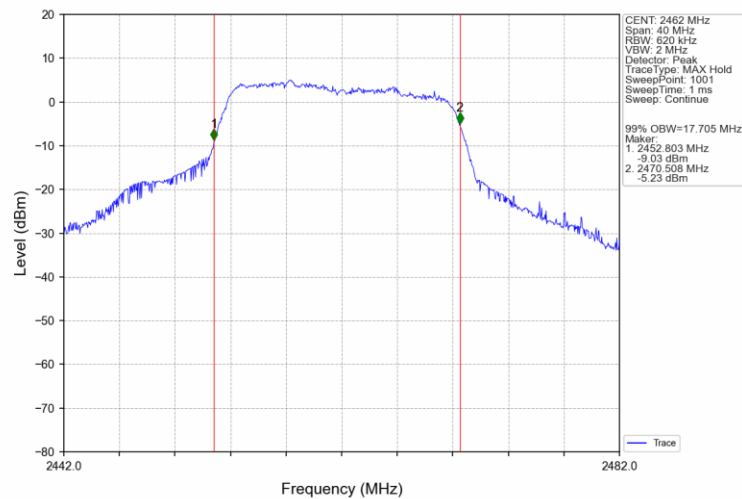
## 802.11g LCH 2412MHz\_Ant1 (SISO) NTN



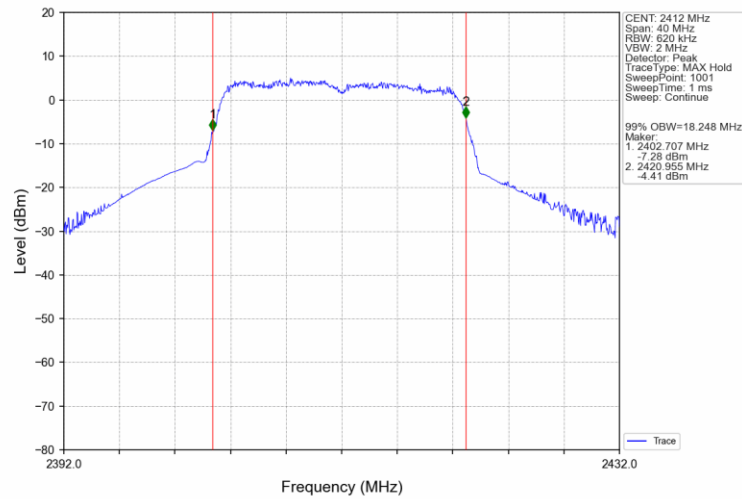
## 802.11g MCH 2437MHz Ant1 (SISO) NTN



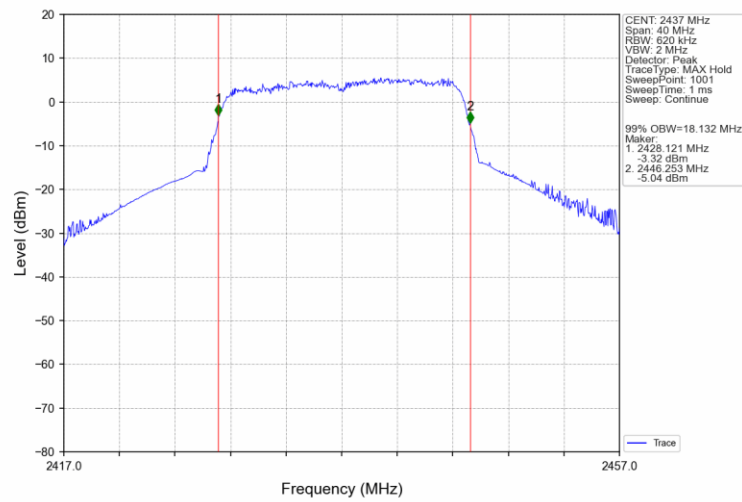
## 802.11g HCH 2462MHz Ant1 (SISO) NTN



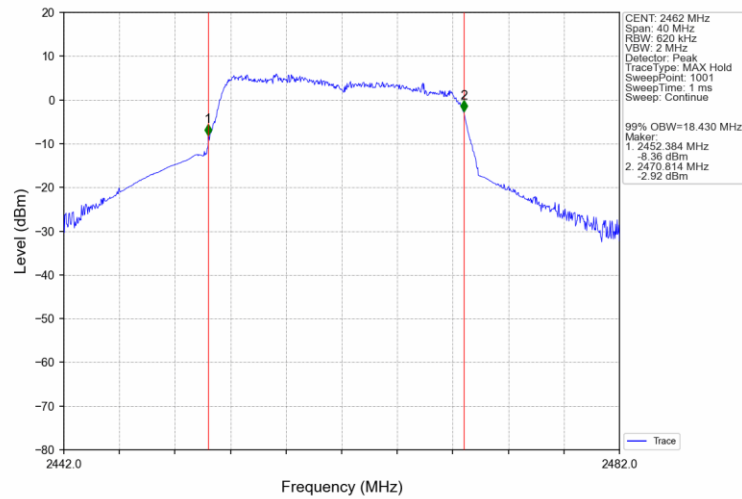
## 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



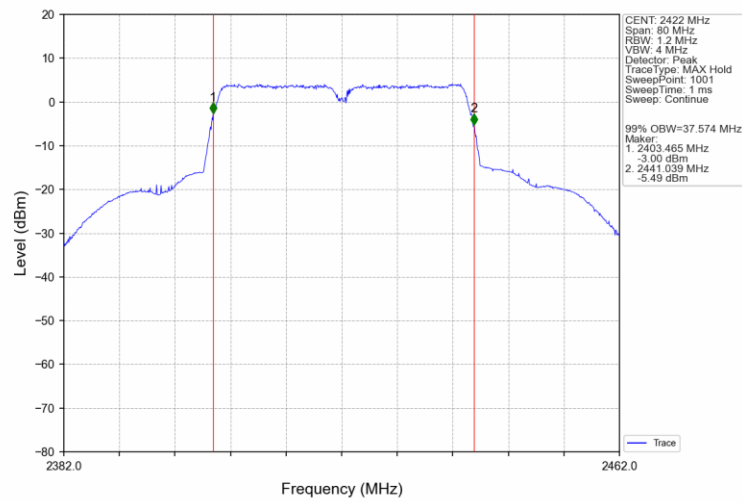
## 802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



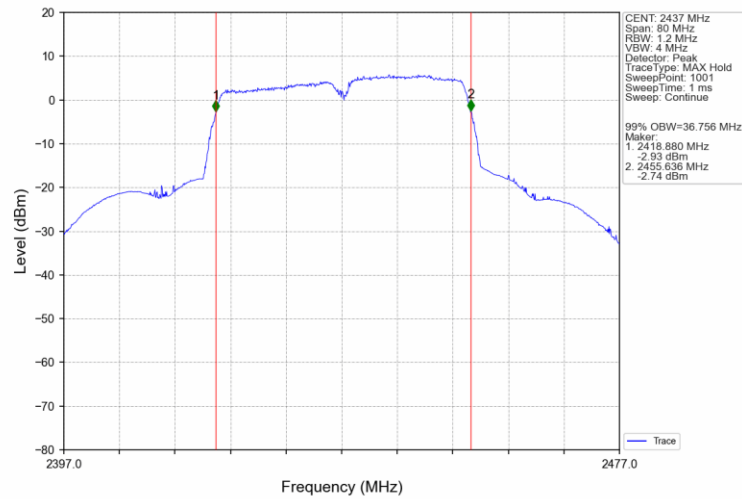
## 802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



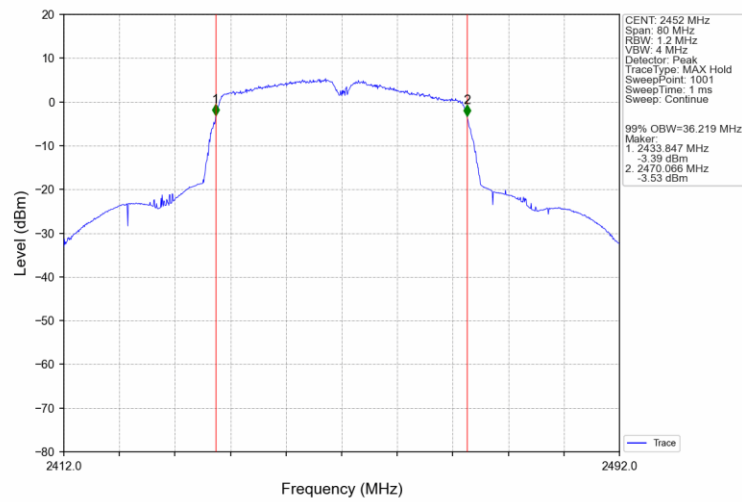
## 802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



## 802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTN

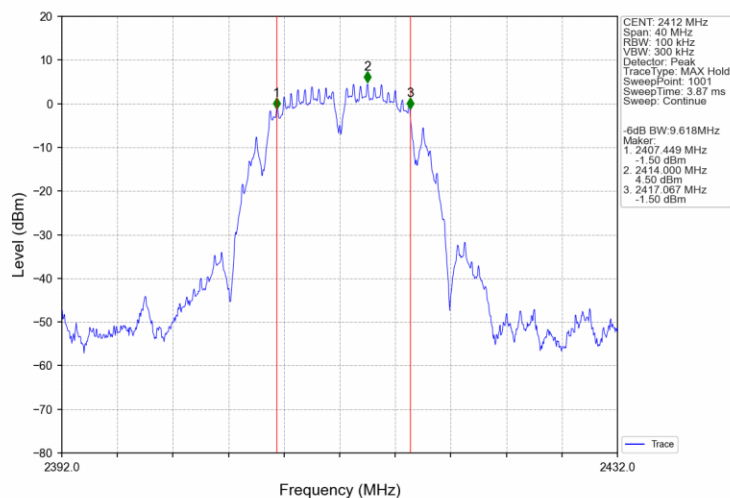


## 802.11n(HT40) HCH\_2452MHz\_Ant1 (SISO) NTN

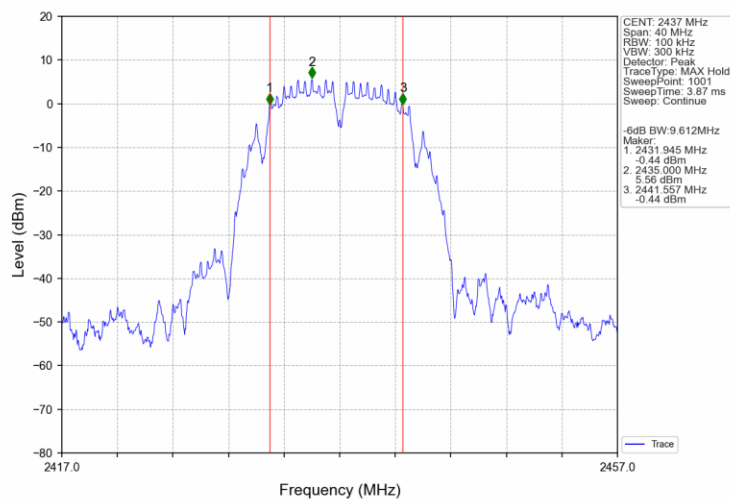


## 2.2.2 6dB BW

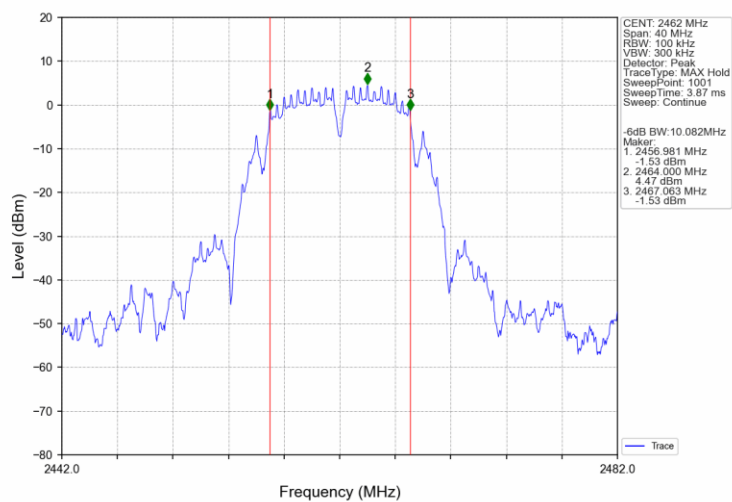
802.11b LCH 2412MHz\_Ant1 (SISO)\_NTNV



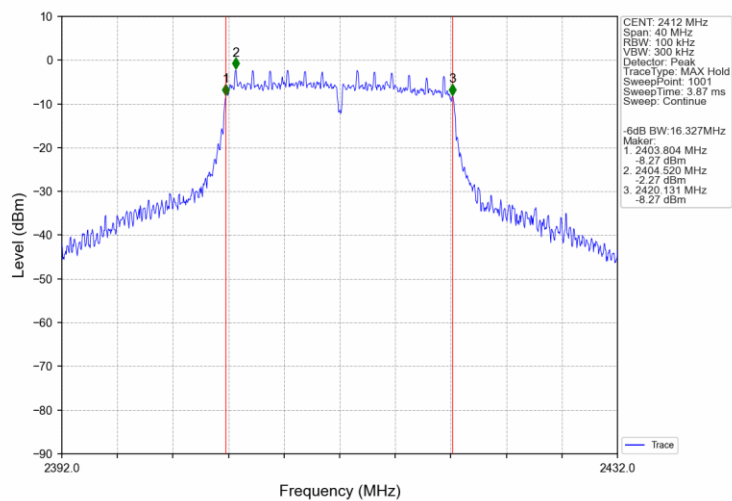
802.11b MCH 2437MHz\_Ant1 (SISO)\_NTNV



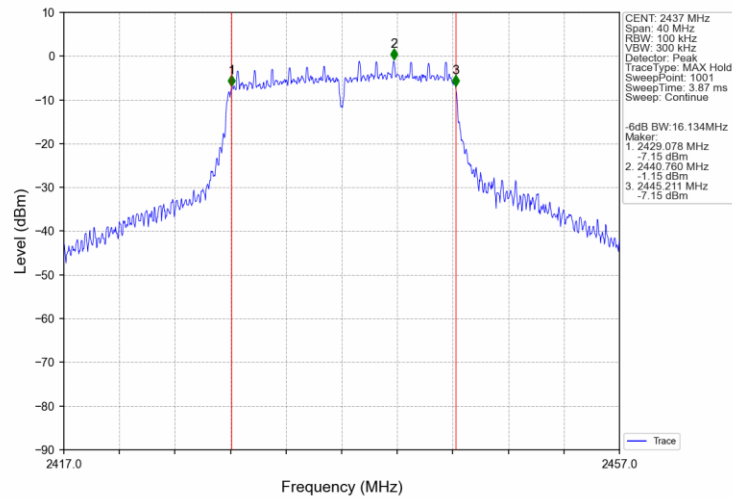
## 802.11b HCH 2462MHz\_Ant1 (SISO) NTNv



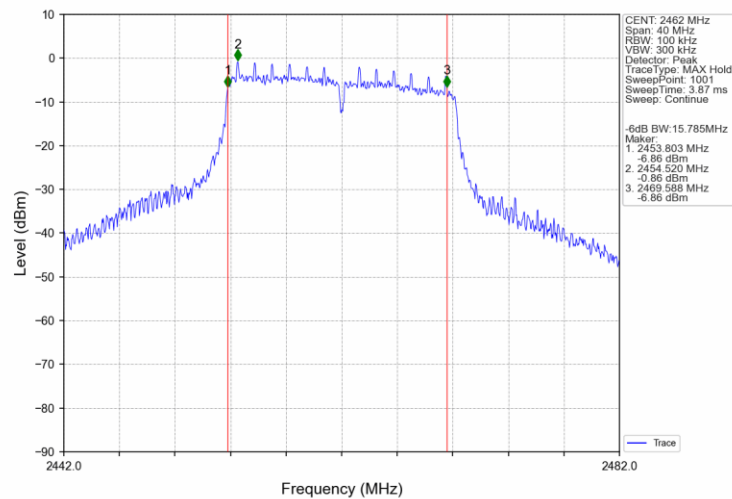
## 802.11g LCH 2412MHz\_Ant1 (SISO) NTNv



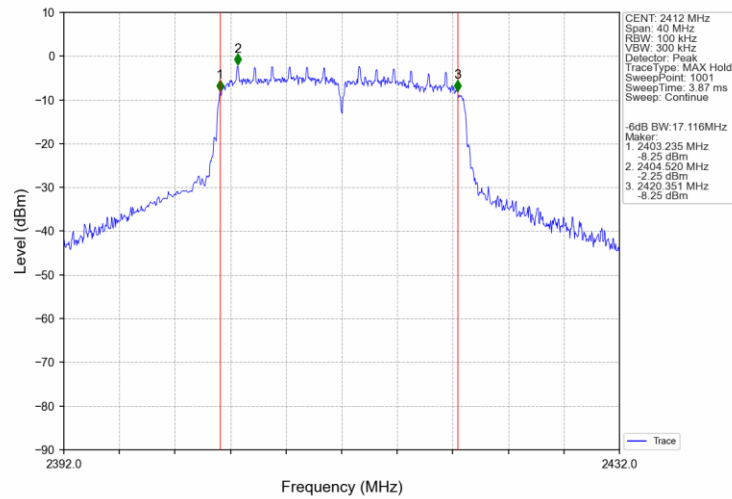
## 802.11g MCH 2437MHz\_Ant1 (SISO) NTN



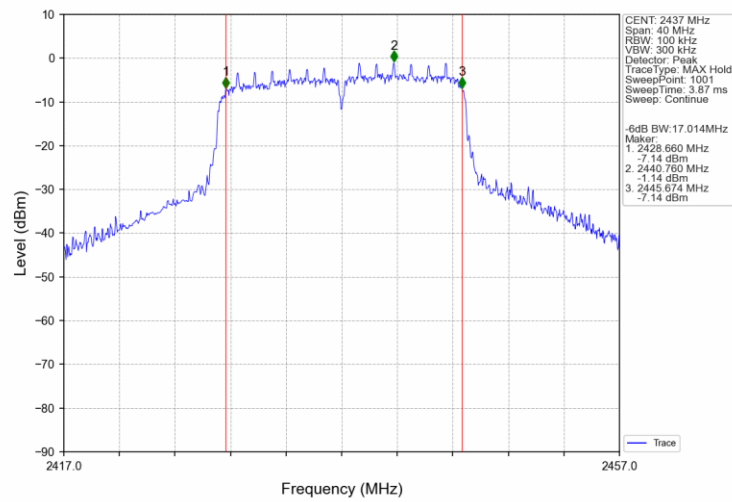
## 802.11g HCH 2462MHz\_Ant1 (SISO) NTN



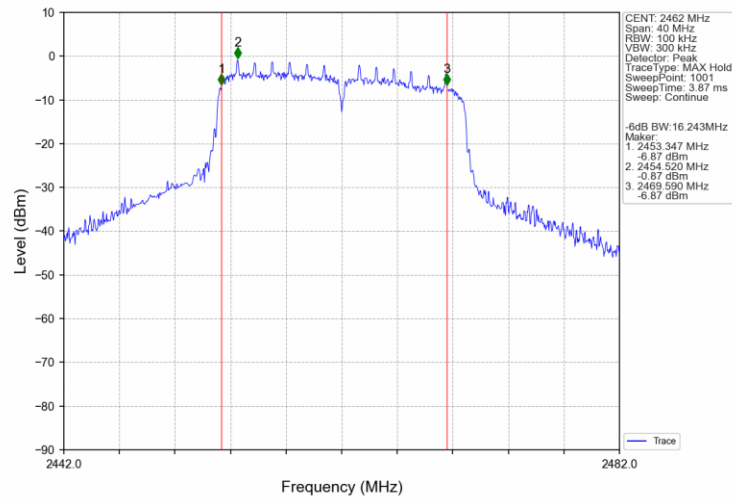
## 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTN



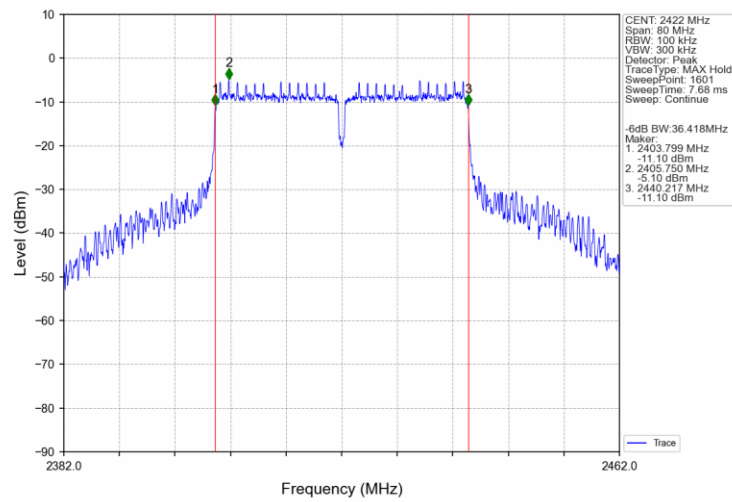
## 802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTN



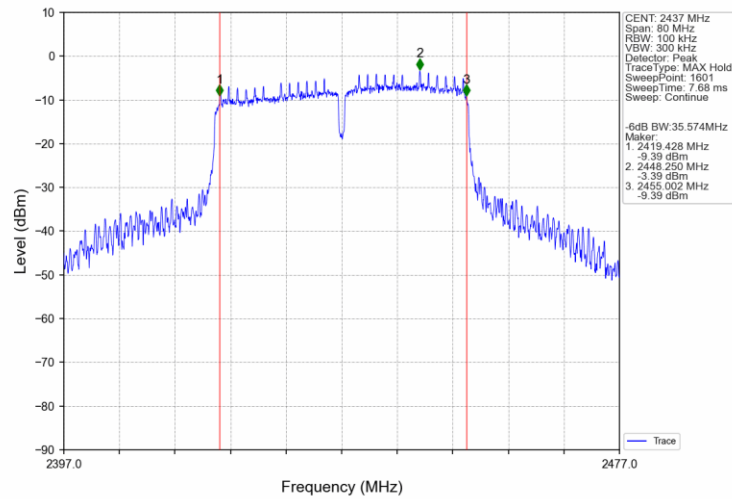
## 802.11n(HT20) HCH\_2462MHz\_Ant1 (SISO) NTNV



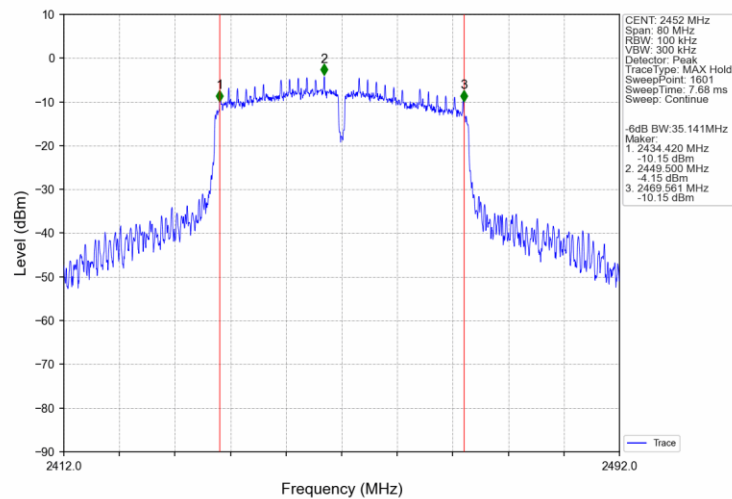
## 802.11n(HT40) LCH\_2422MHz\_Ant1 (SISO) NTNV



## 802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTN



## 802.11n(HT40) HCH\_2452MHz\_Ant1 (SISO) NTN



### 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            | 6.04                                      | <=30  | Pass    |
|                |         | 2437            | 7.05                                      | <=30  | Pass    |
|                |         | 2462            | 6.03                                      | <=30  | Pass    |
| 802.11g        | SISO    | 2412            | 6.64                                      | <=30  | Pass    |
|                |         | 2437            | 7.37                                      | <=30  | Pass    |
|                |         | 2462            | 7.03                                      | <=30  | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 7.16                                      | <=30  | Pass    |
|                |         | 2437            | 7.96                                      | <=30  | Pass    |
|                |         | 2462            | 7.46                                      | <=30  | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 7.36                                      | <=30  | Pass    |
|                |         | 2437            | 7.76                                      | <=30  | Pass    |
|                |         | 2452            | 6.85                                      | <=30  | Pass    |

## 4. Maximum Power Spectral Density

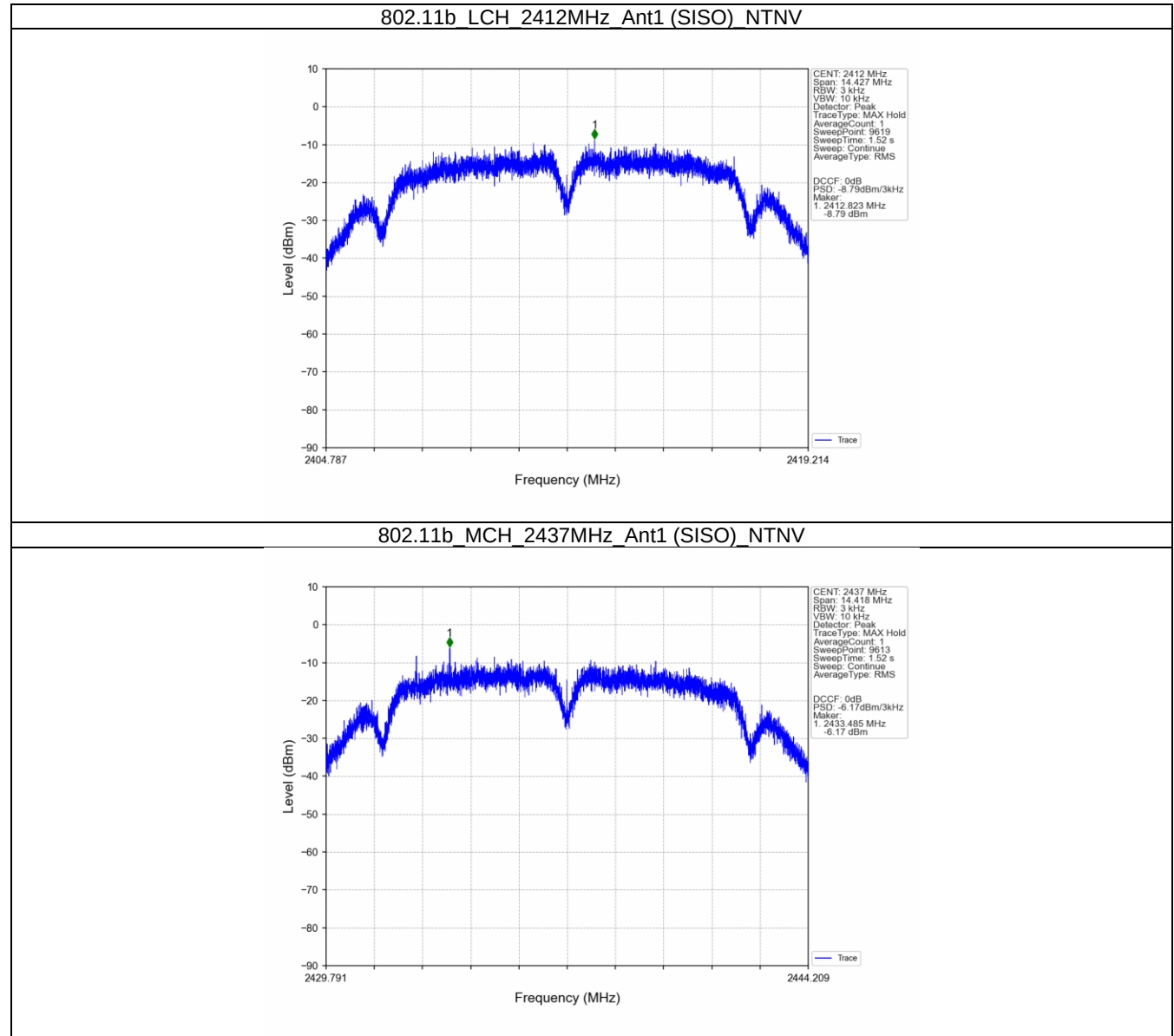
### 4.1 Test Result

#### 4.1.1 PSD

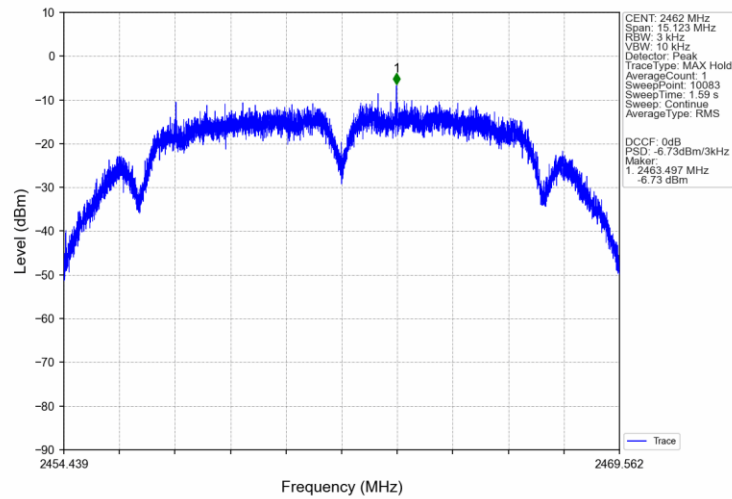
| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |          | Verdict |
|----------------|---------|-----------------|------------------------|----------|---------|
|                |         |                 | ANT1                   | Limit    |         |
| 802.11b        | SISO    | 2412            | -8.79                  | $\leq 8$ | Pass    |
|                |         | 2437            | -6.17                  | $\leq 8$ | Pass    |
|                |         | 2462            | -6.73                  | $\leq 8$ | Pass    |
| 802.11g        | SISO    | 2412            | -16.63                 | $\leq 8$ | Pass    |
|                |         | 2437            | -15.83                 | $\leq 8$ | Pass    |
|                |         | 2462            | -16.12                 | $\leq 8$ | Pass    |
| 802.11n (HT20) | SISO    | 2412            | -16.95                 | $\leq 8$ | Pass    |
|                |         | 2437            | -16.11                 | $\leq 8$ | Pass    |
|                |         | 2462            | -15.40                 | $\leq 8$ | Pass    |
| 802.11n (HT40) | SISO    | 2422            | -20.54                 | $\leq 8$ | Pass    |
|                |         | 2437            | -18.34                 | $\leq 8$ | Pass    |
|                |         | 2452            | -19.61                 | $\leq 8$ | Pass    |

## 4.2 Test Graph

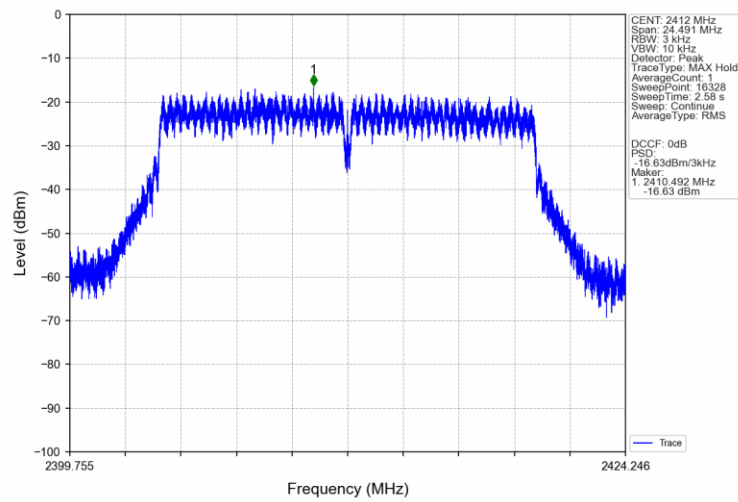
### 4.2.1 PSD



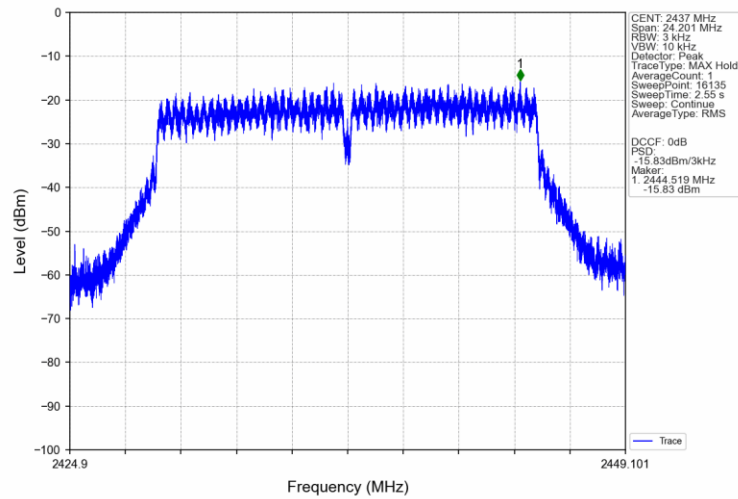
## 802.11b HCH 2462MHz\_Ant1 (SISO) NTN



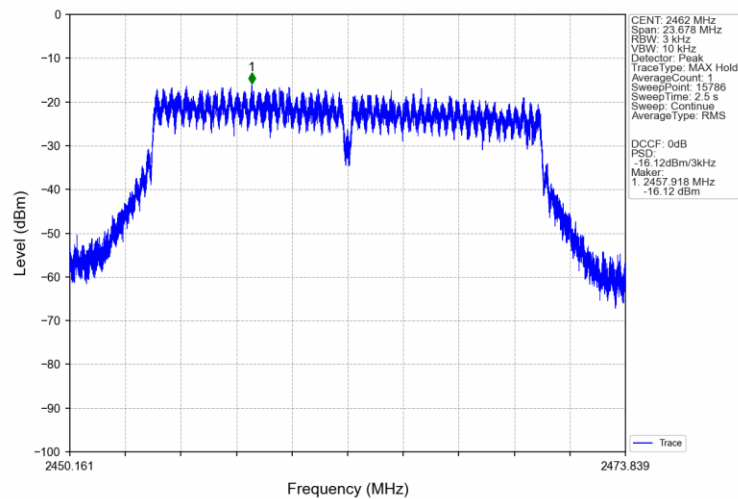
## 802.11g LCH 2412MHz\_Ant1 (SISO) NTN



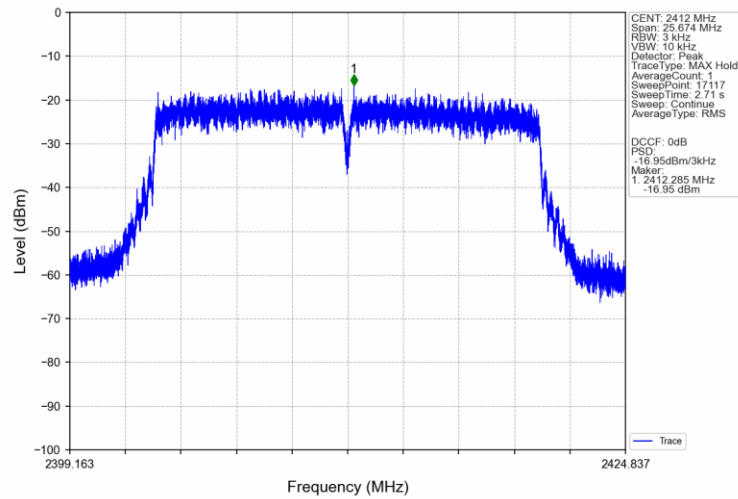
## 802.11g MCH 2437MHz\_Ant1 (SISO) NTN



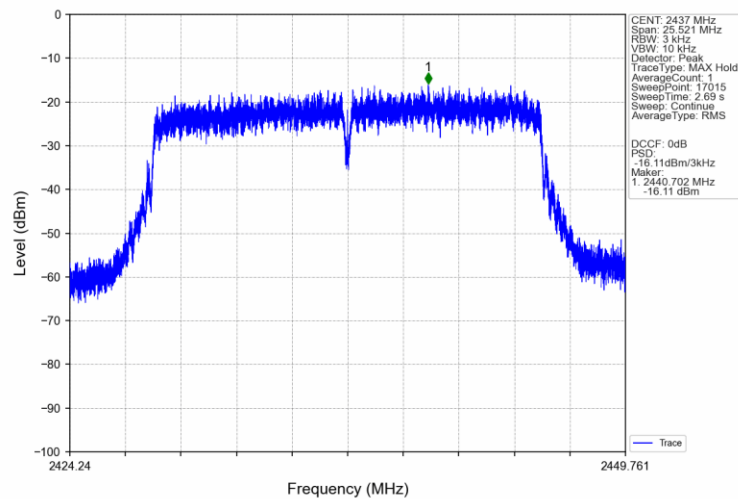
## 802.11g HCH 2462MHz\_Ant1 (SISO) NTN



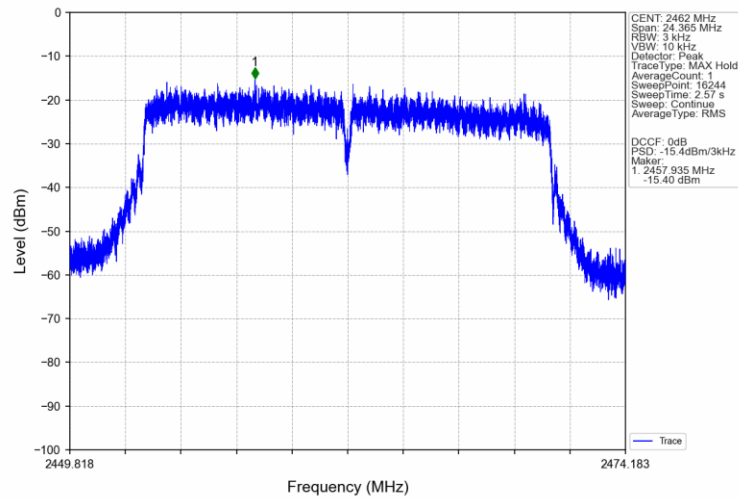
## 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



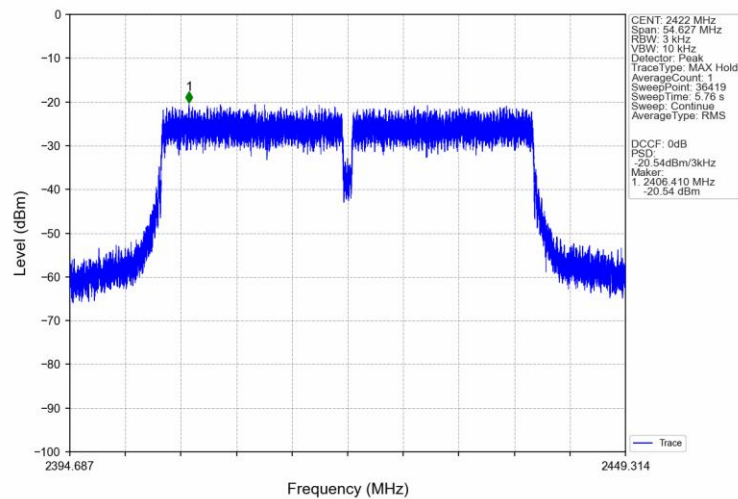
## 802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



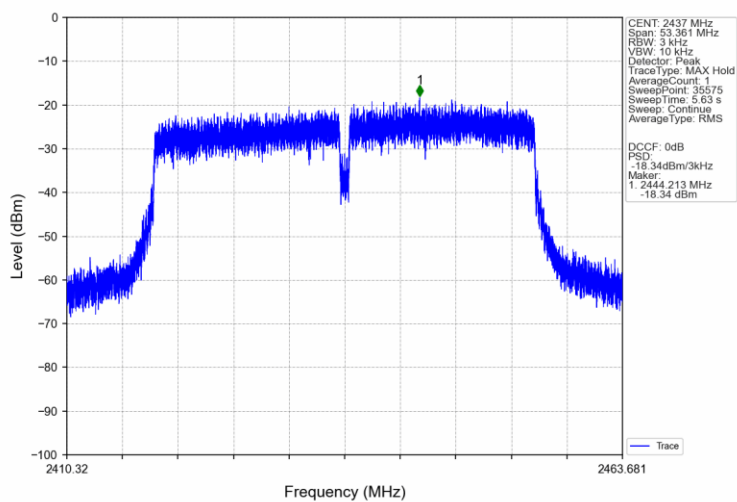
## 802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



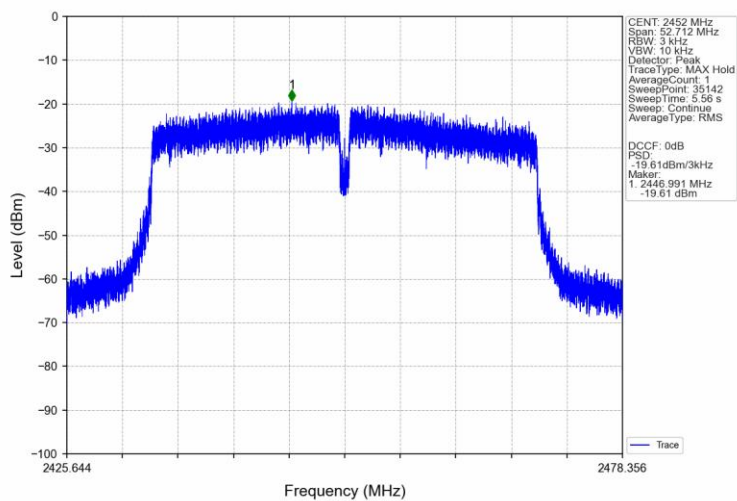
## 802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



## 802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTN



## 802.11n(HT40) HCH\_2452MHz\_Ant1 (SISO) NTN



## 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   | 4.66                     |
|                |         | 2437            | 1   | 5.64                     |
|                |         | 2462            | 1   | 4.44                     |
| 802.11g        | SISO    | 2412            | 1   | -2.29                    |
|                |         | 2437            | 1   | -1.17                    |
|                |         | 2462            | 1   | -1.09                    |
| 802.11n (HT20) | SISO    | 2412            | 1   | -2.24                    |
|                |         | 2437            | 1   | -1.18                    |
|                |         | 2462            | 1   | -0.90                    |
| 802.11n (HT40) | SISO    | 2422            | 1   | -5.11                    |
|                |         | 2437            | 1   | -3.75                    |
|                |         | 2452            | 1   | -4.12                    |

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

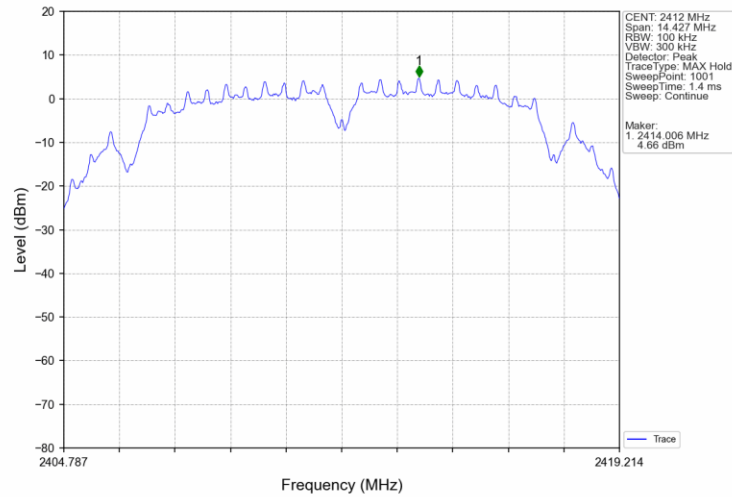
| Mode           | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b        | SISO    | 2412            | 1   | 4.66                     | -15.34      | Pass    |
|                |         | 2437            | 1   | 5.64                     | -14.36      | Pass    |
|                |         | 2462            | 1   | 4.44                     | -15.56      | Pass    |
| 802.11g        | SISO    | 2412            | 1   | -2.29                    | -22.29      | Pass    |
|                |         | 2437            | 1   | -1.17                    | -21.17      | Pass    |
|                |         | 2462            | 1   | -1.09                    | -21.09      | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | -2.24                    | -22.24      | Pass    |
|                |         | 2437            | 1   | -1.18                    | -21.18      | Pass    |
|                |         | 2462            | 1   | -0.90                    | -20.90      | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | -5.11                    | -25.11      | Pass    |
|                |         | 2437            | 1   | -3.75                    | -23.75      | Pass    |
|                |         | 2452            | 1   | -4.12                    | -24.12      | 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.

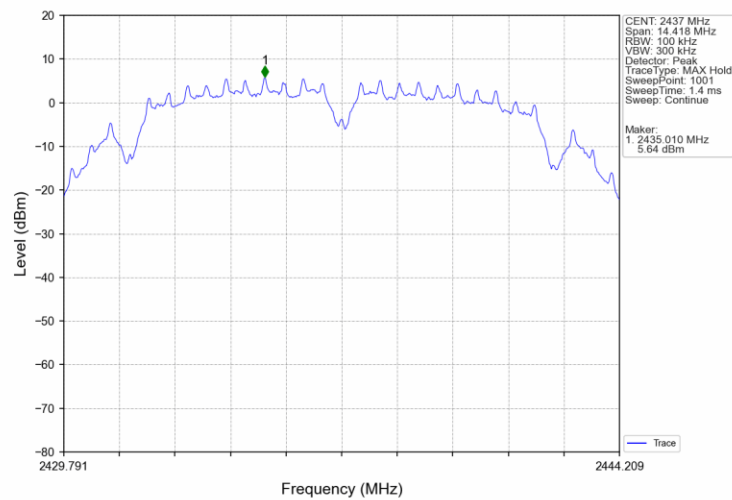
## 5.2 Test Graph

### 5.2.1 Ref

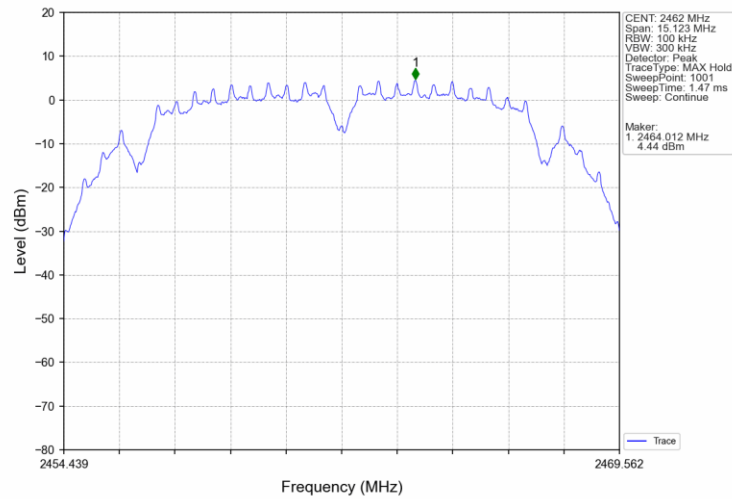
802.11b LCH 2412MHz\_Ant1 (SISO) NTN



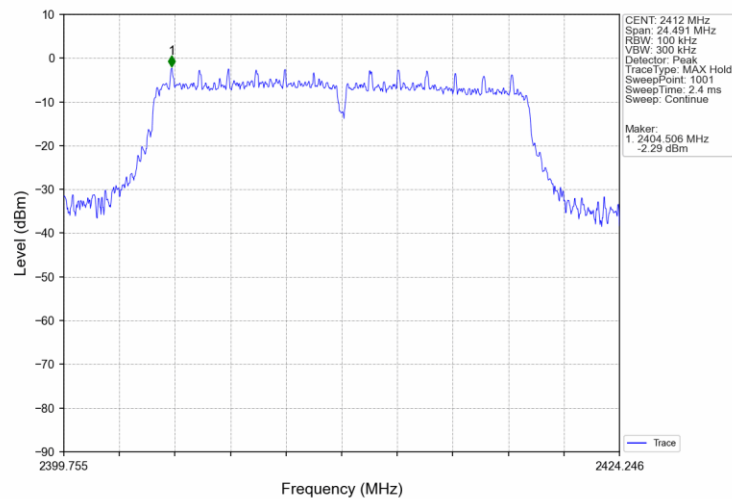
802.11b\_MCH\_2437MHz\_Ant1 (SISO) NTN



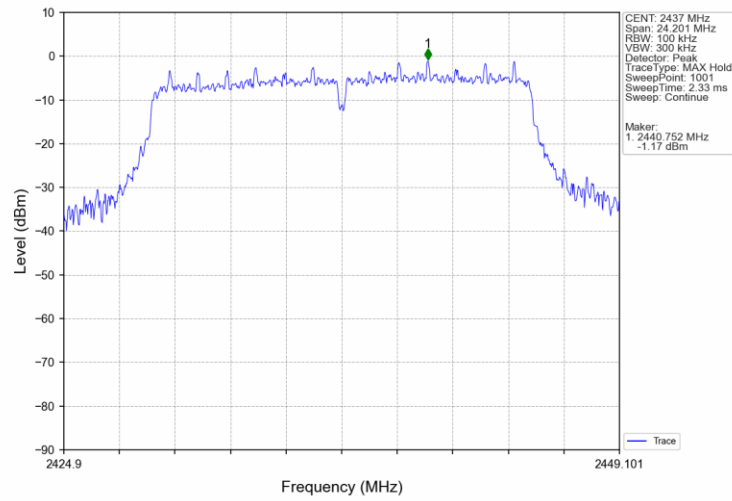
## 802.11b HCH 2462MHz\_Ant1 (SISO) NTN



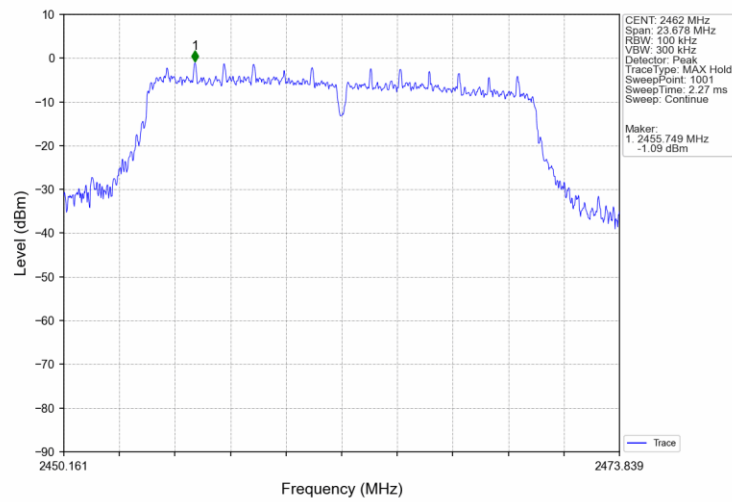
## 802.11g LCH 2412MHz\_Ant1 (SISO) NTN



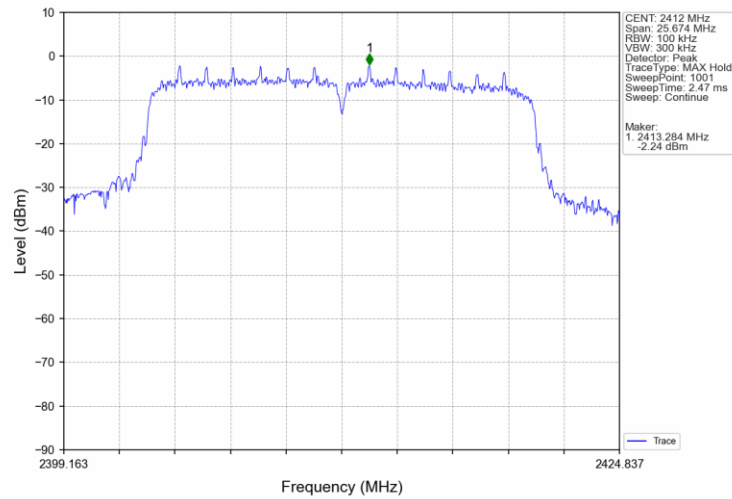
## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



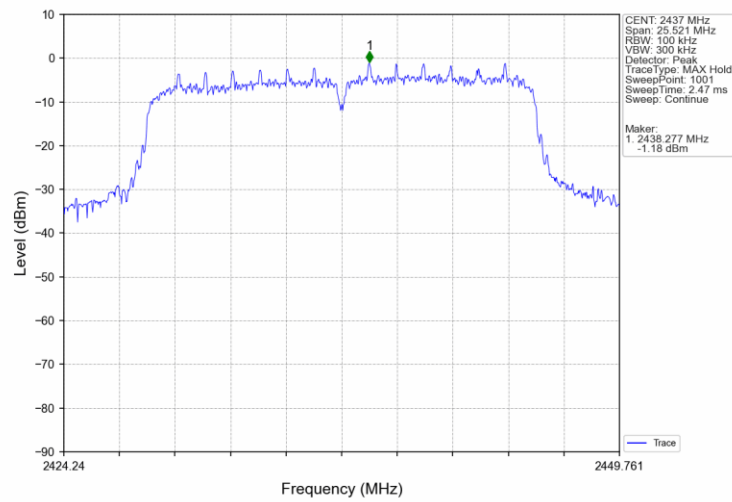
## 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



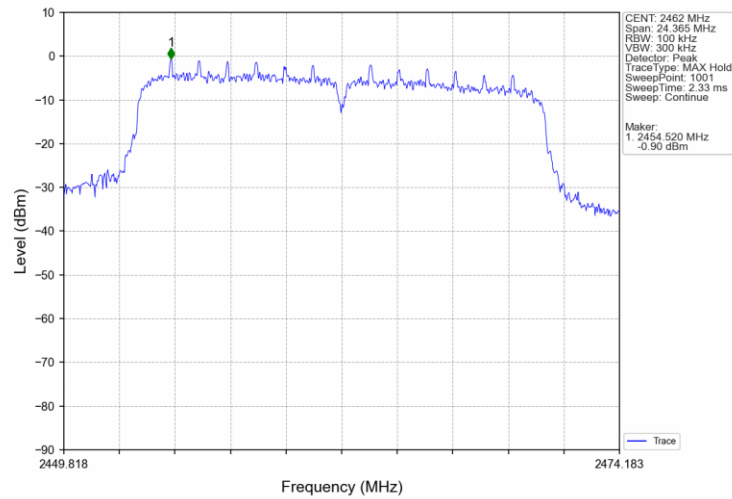
## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



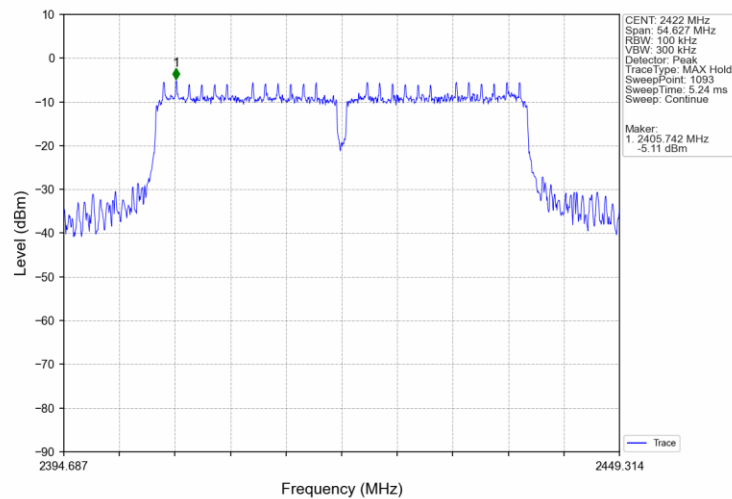
## 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



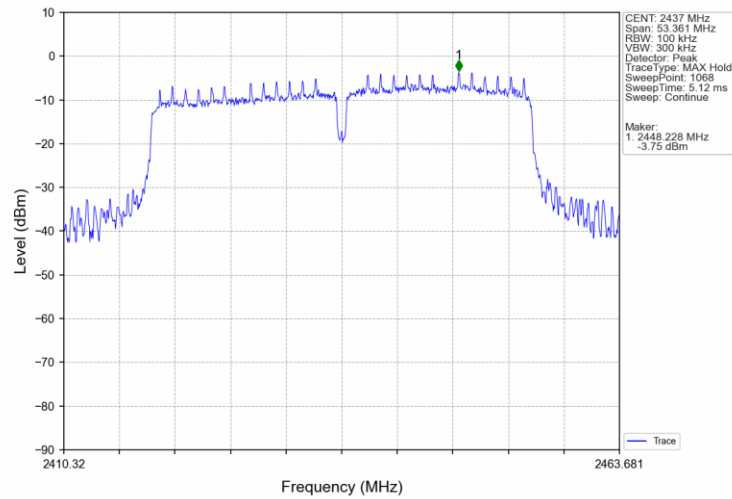
## 802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



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



## 802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTN



## 802.11n(HT40) HCH\_2452MHz\_Ant1 (SISO) NTN

