

## Appendix A for KSCR210900016101

## 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            | 4.287     | 4.358       | 98.37          | 0.07                              | 0.04                  |
|                |         | 2437            | 4.288     | 4.358       | 98.39          | 0.07                              | 0.04                  |
|                |         | 2462            | 4.287     | 4.358       | 98.37          | 0.07                              | 0.04                  |
| 802.11g        | SISO    | 2412            | 1.392     | 1.460       | 95.34          | 0.21                              | 0.03                  |
|                |         | 2437            | 1.391     | 1.459       | 95.34          | 0.21                              | 0.03                  |
|                |         | 2462            | 1.391     | 1.460       | 95.27          | 0.21                              | 0.03                  |
| 802.11n (HT20) | SISO    | 2412            | 5.084     | 5.152       | 98.68          | 0.06                              | 0.03                  |
|                |         | 2437            | 5.083     | 5.152       | 98.66          | 0.06                              | 0.04                  |
|                |         | 2462            | 5.083     | 5.152       | 98.66          | 0.06                              | 0.04                  |
| 802.11n (HT40) | SISO    | 2422            | 2.468     | 2.536       | 97.32          | 0.12                              | 0.03                  |
|                |         | 2437            | 2.467     | 2.536       | 97.28          | 0.12                              | 0.03                  |
|                |         | 2452            | 2.468     | 2.536       | 97.32          | 0.12                              | 0.03                  |

## 1.1.2 Test Graph

|                                      |
|--------------------------------------|
| 802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV |
|--------------------------------------|

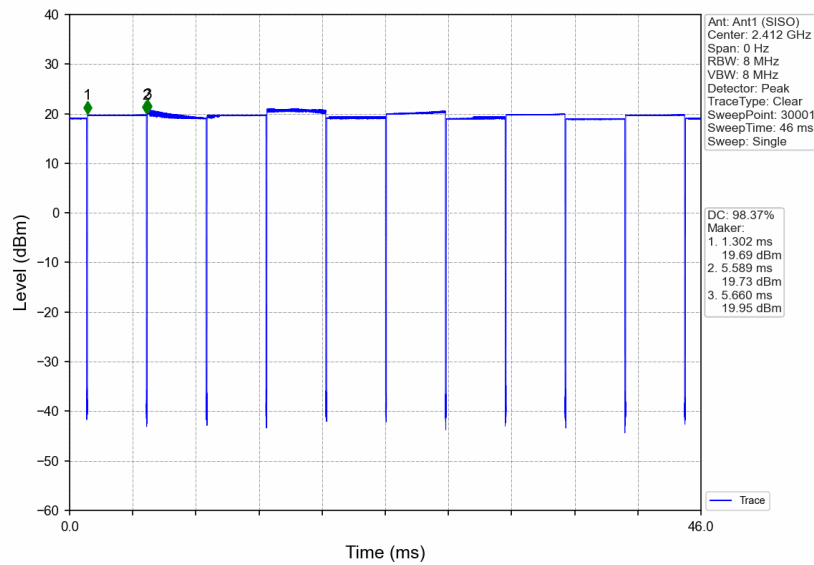


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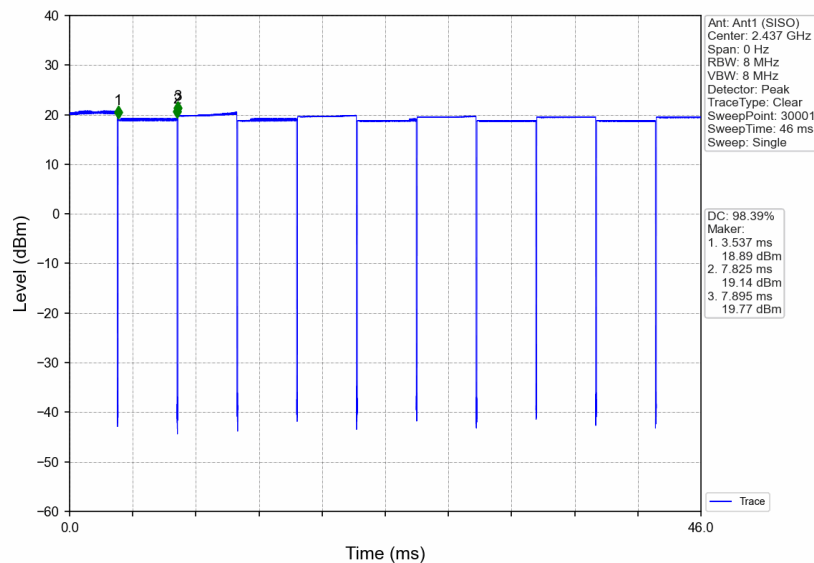
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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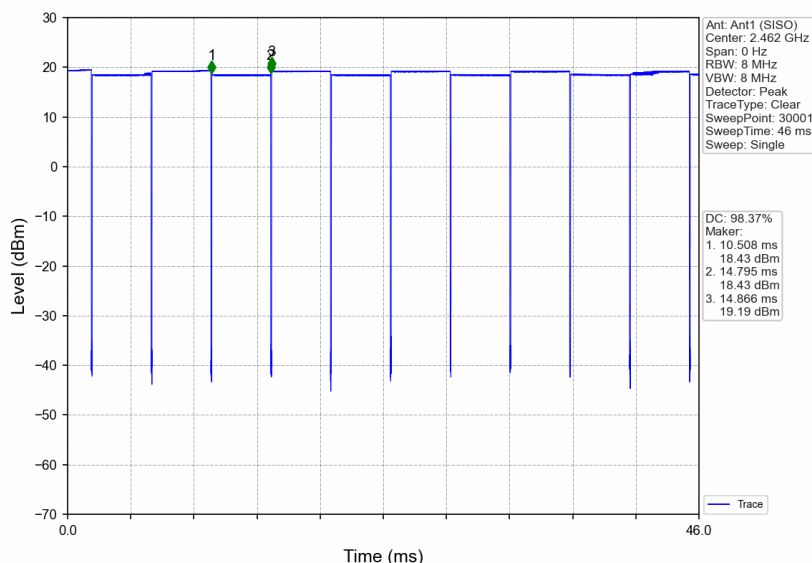
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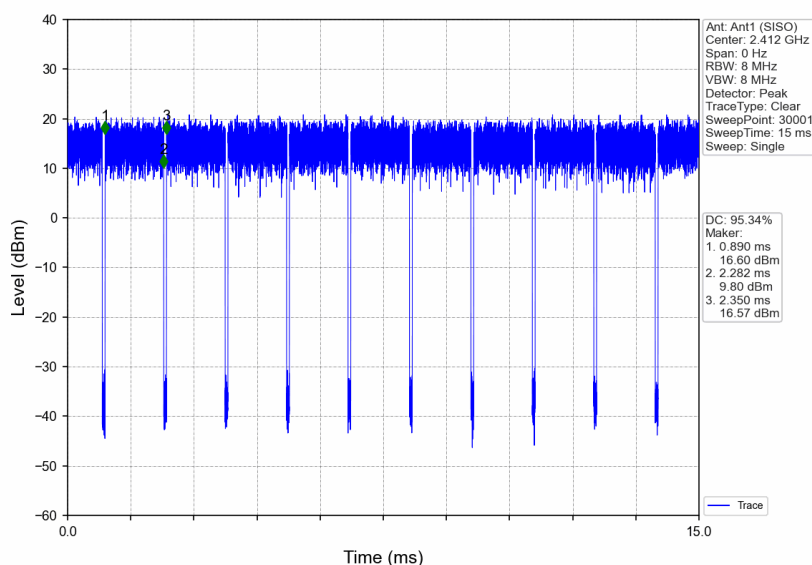
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## 802.11b HCH 2462MHz Ant1 (SISO) NTNV



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



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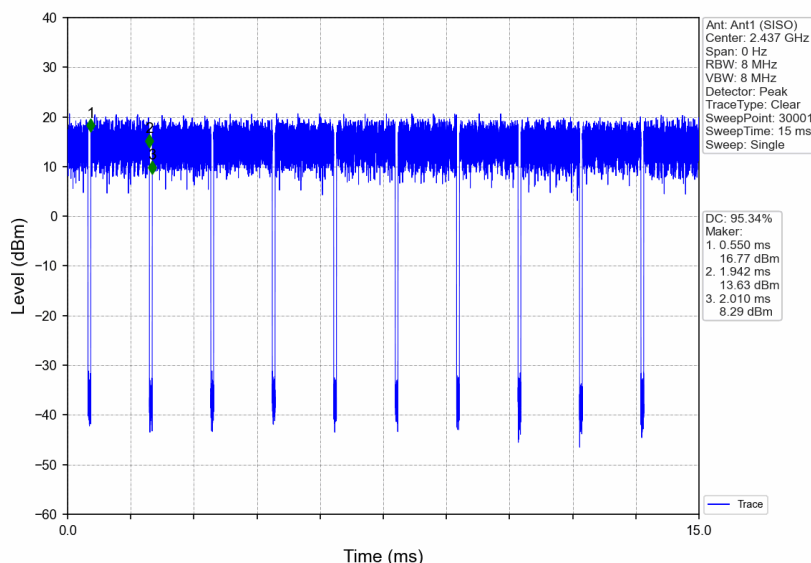
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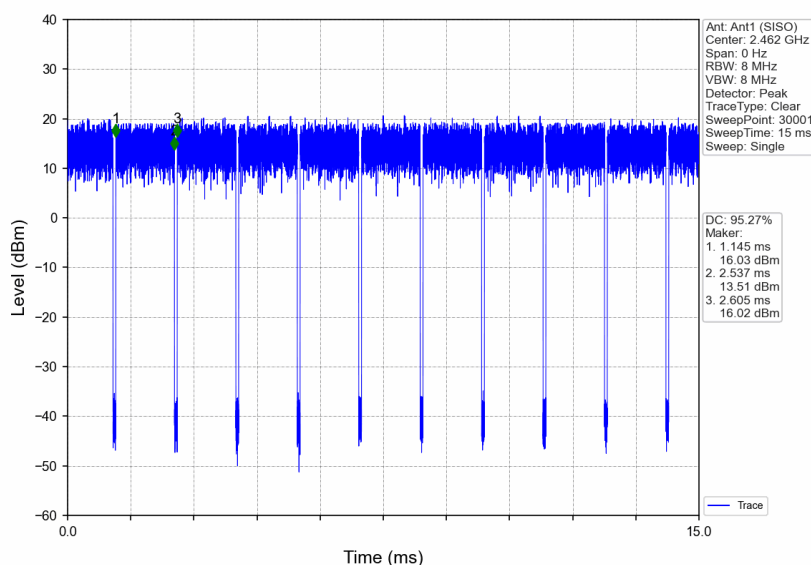
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## 802.11g MCH 2437MHz Ant1 (SISO) NTNV



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



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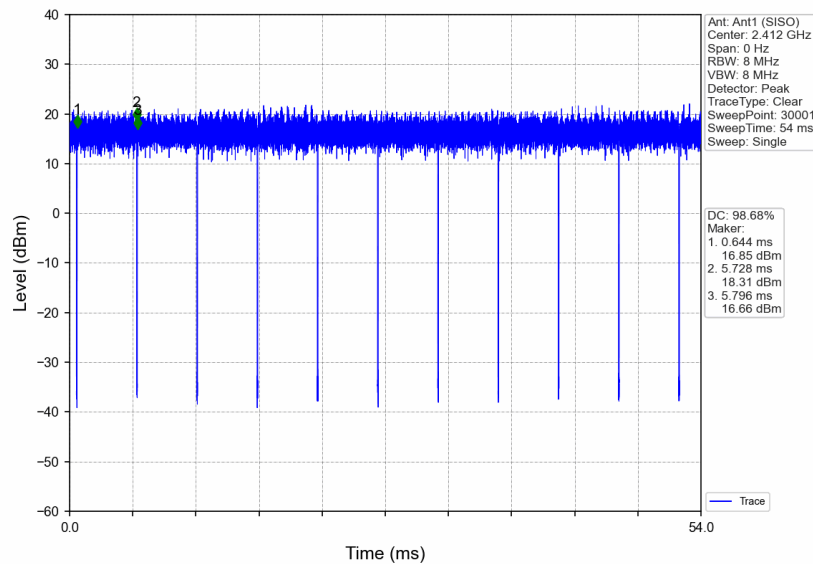
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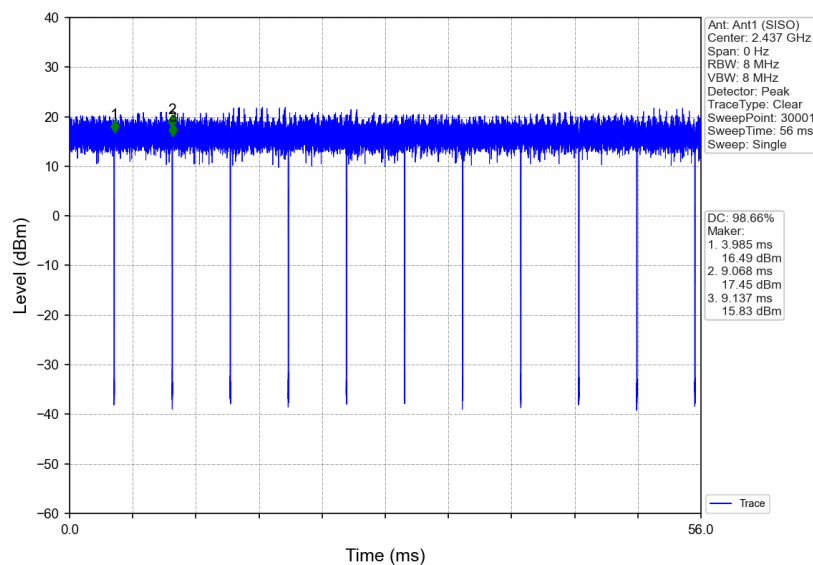
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## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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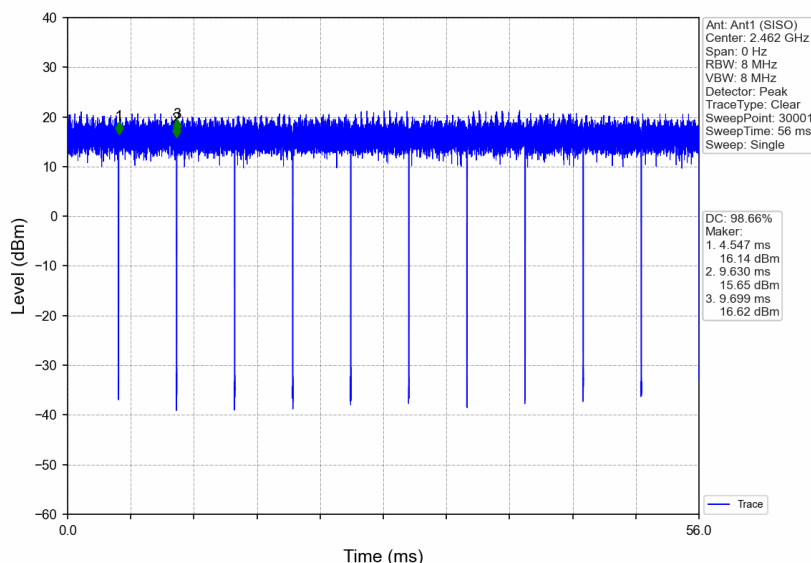
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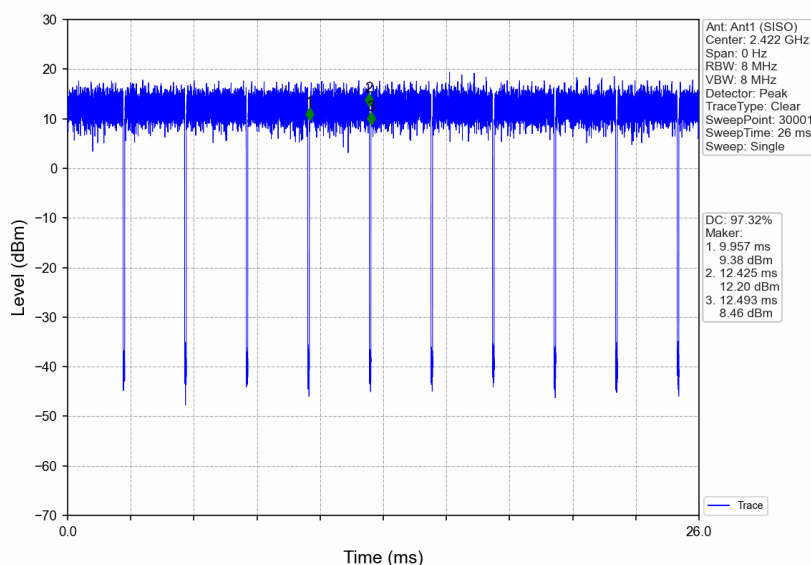
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## 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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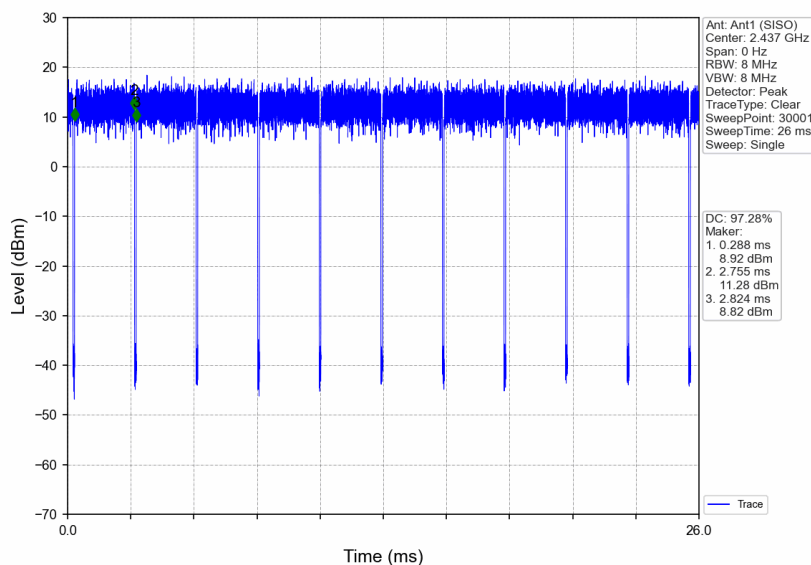
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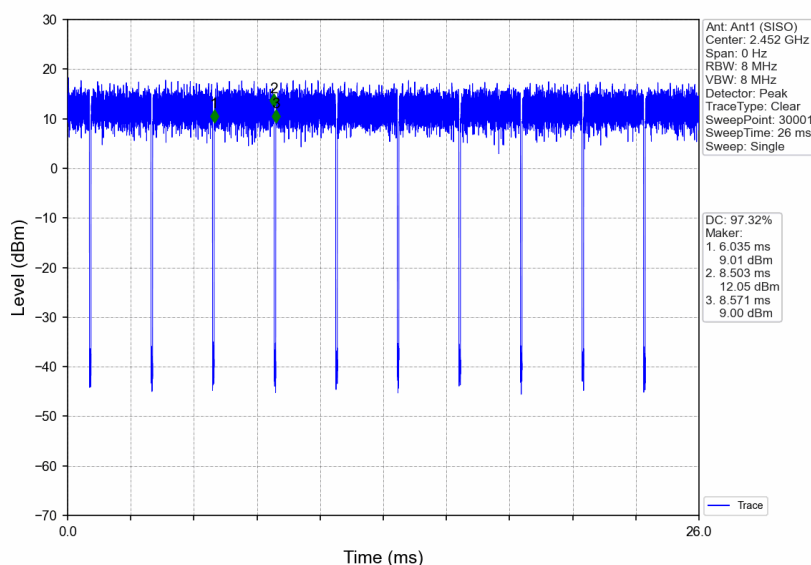
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## 802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTN



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



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | 99% Occupied Bandwidth (MHz) | Verdict |
|----------------|---------|-----------------|-----|------------------------------|---------|
|                |         |                 |     | Result                       |         |
| 802.11b        | SISO    | 2412            | 1   | 15.203                       | Pass    |
|                |         | 2437            | 1   | 15.218                       | Pass    |
|                |         | 2462            | 1   | 15.206                       | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 18.088                       | Pass    |
|                |         | 2437            | 1   | 18.087                       | Pass    |
|                |         | 2462            | 1   | 18.084                       | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 18.741                       | Pass    |
|                |         | 2437            | 1   | 18.716                       | Pass    |
|                |         | 2462            | 1   | 18.667                       | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 37.748                       | Pass    |
|                |         | 2437            | 1   | 37.797                       | Pass    |
|                |         | 2452            | 1   | 37.826                       | Pass    |

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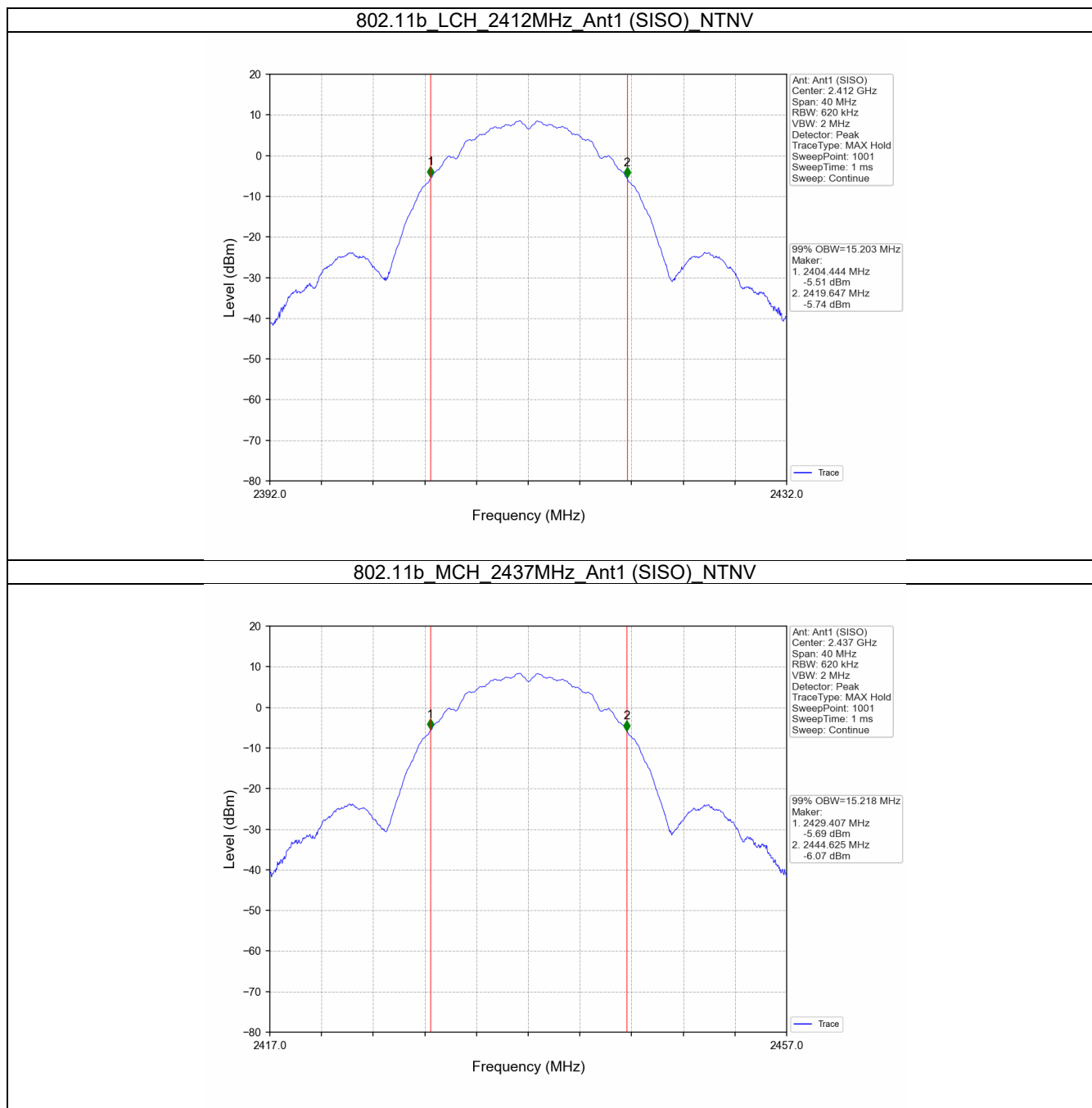
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## 2.1.2 Test Graph



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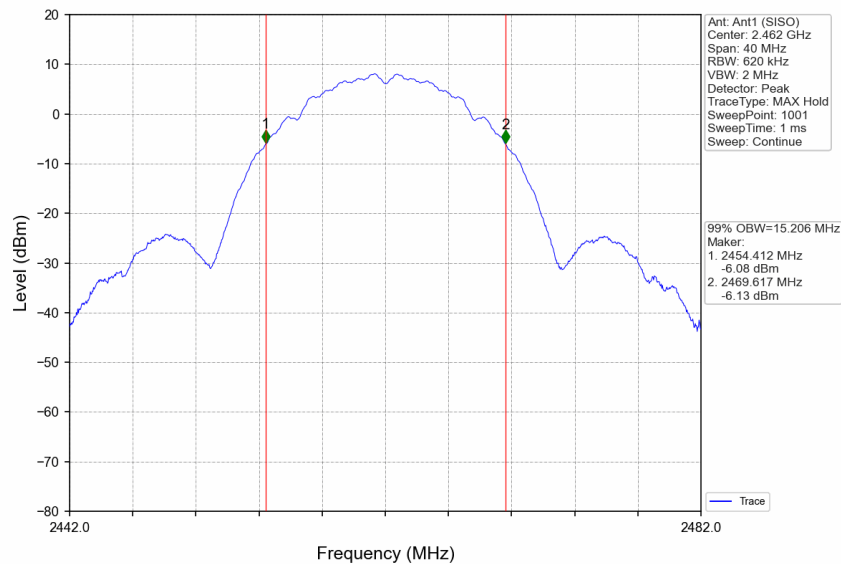
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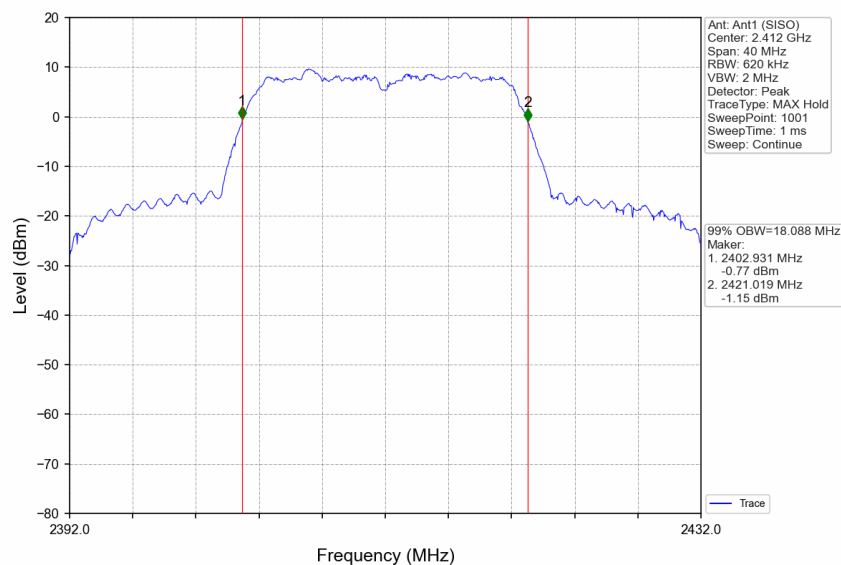
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## 802.11b HCH 2462MHz Ant1 (SISO) NTNV



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



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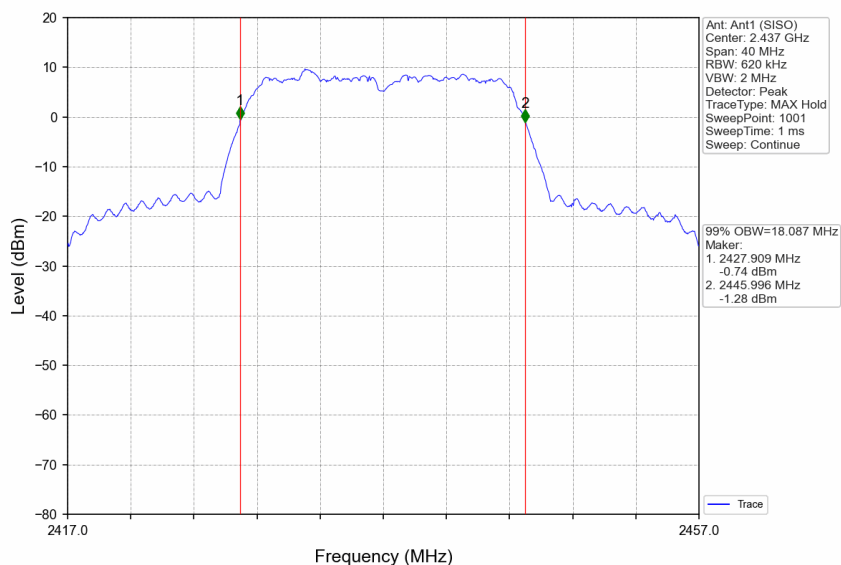
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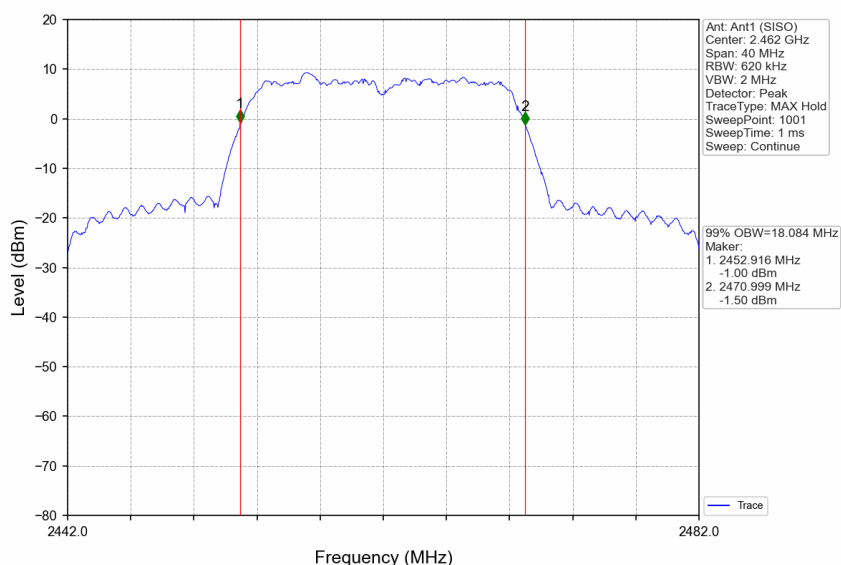
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## 802.11g MCH 2437MHz Ant1 (SISO) NTNV



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



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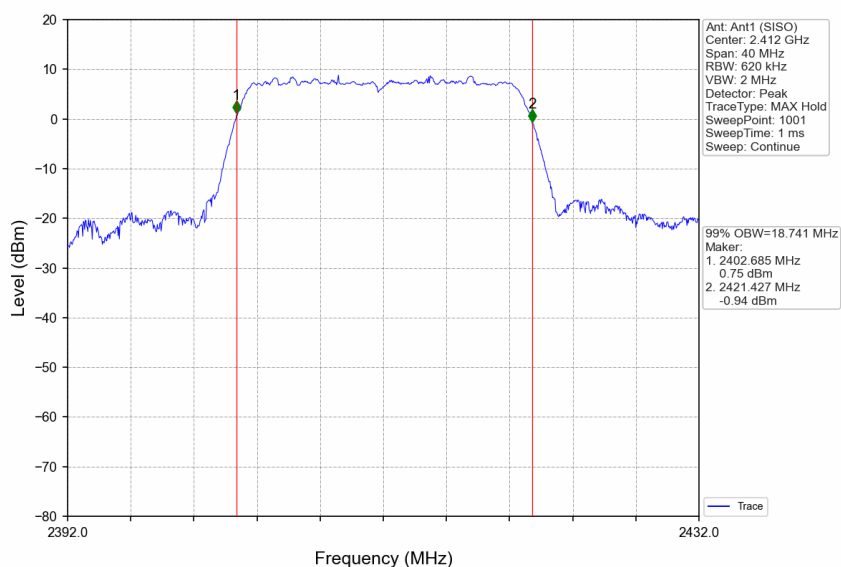
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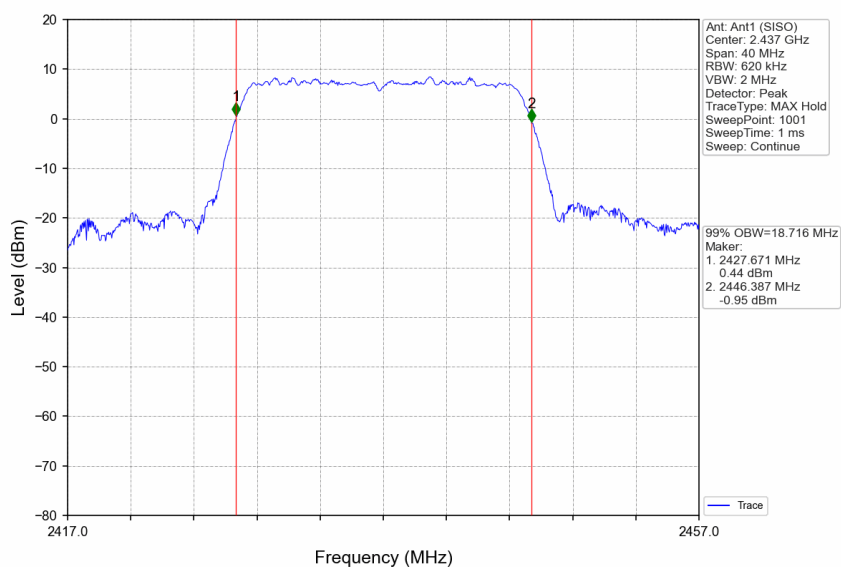
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## 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



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



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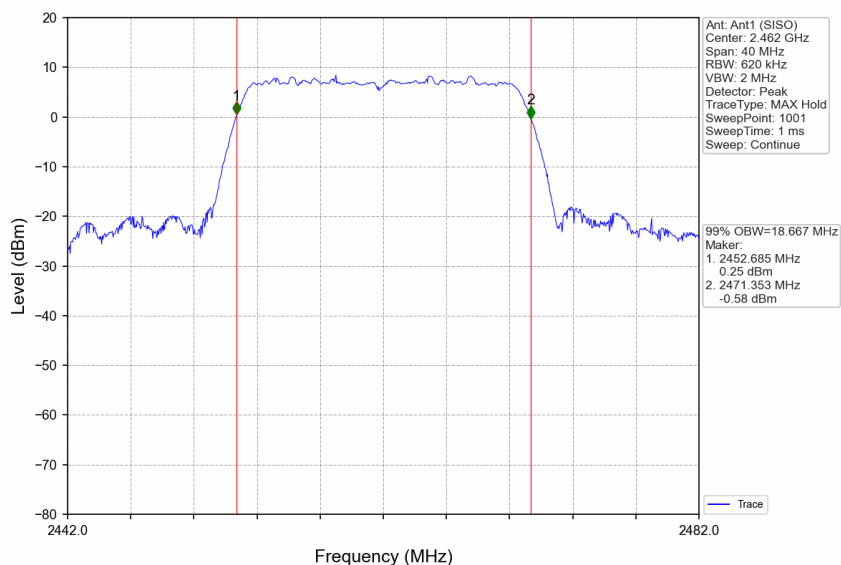
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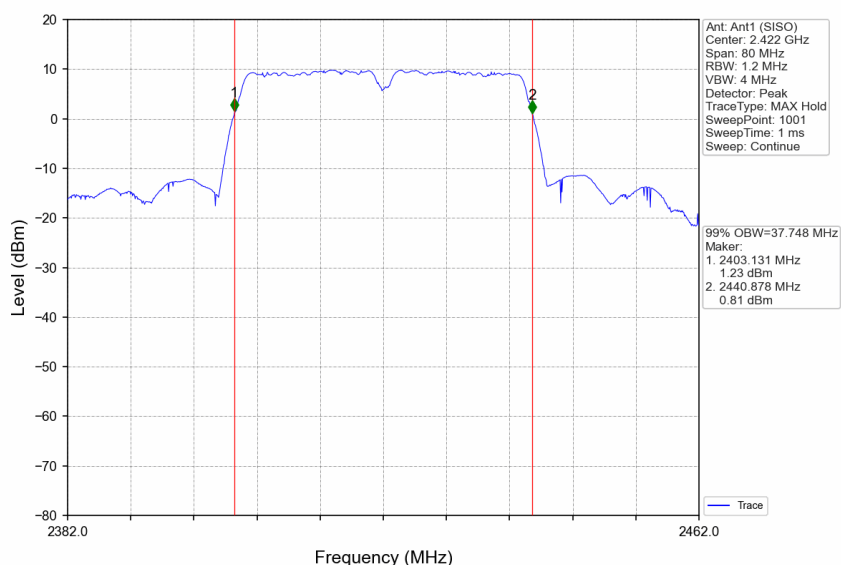
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## 802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



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



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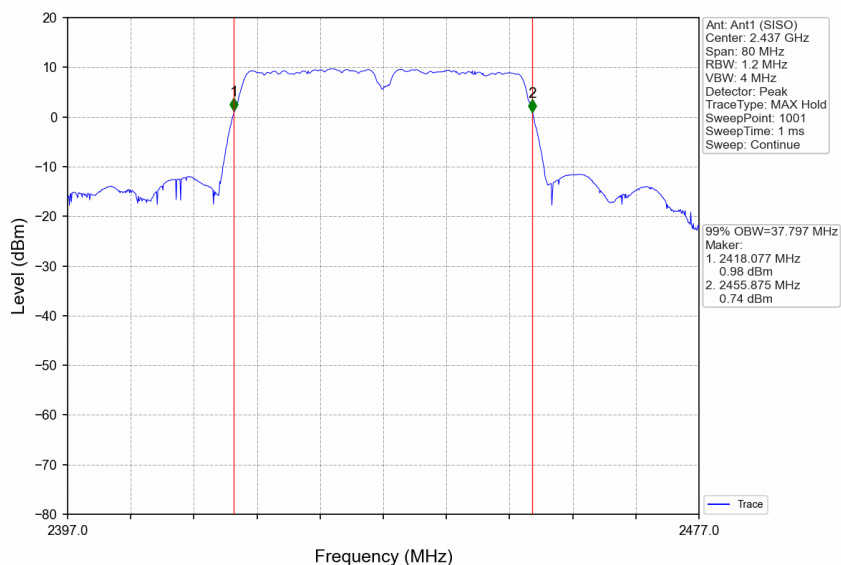
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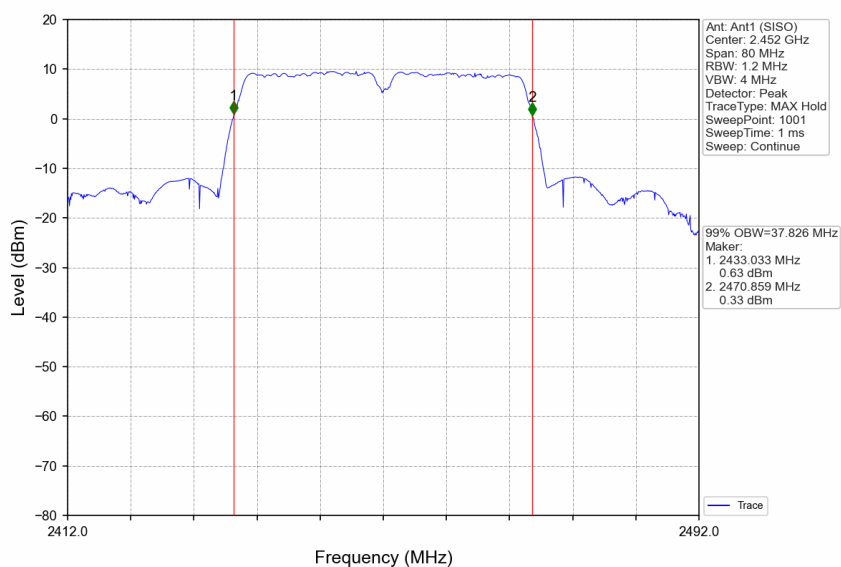
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802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTN



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



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## 2.2 6dB BW

### 2.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | 6dB Bandwidth (MHz) |            | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
|                |         |                 |     | Result              | Limit      |         |
| 802.11b        | SISO    | 2412            | 1   | 9.274               | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 9.344               | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 9.323               | $\geq 0.5$ | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 16.389              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 16.386              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 16.392              | $\geq 0.5$ | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 17.644              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 17.642              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 17.649              | $\geq 0.5$ | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 36.358              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 36.341              | $\geq 0.5$ | Pass    |
|                |         | 2452            | 1   | 36.359              | $\geq 0.5$ | Pass    |



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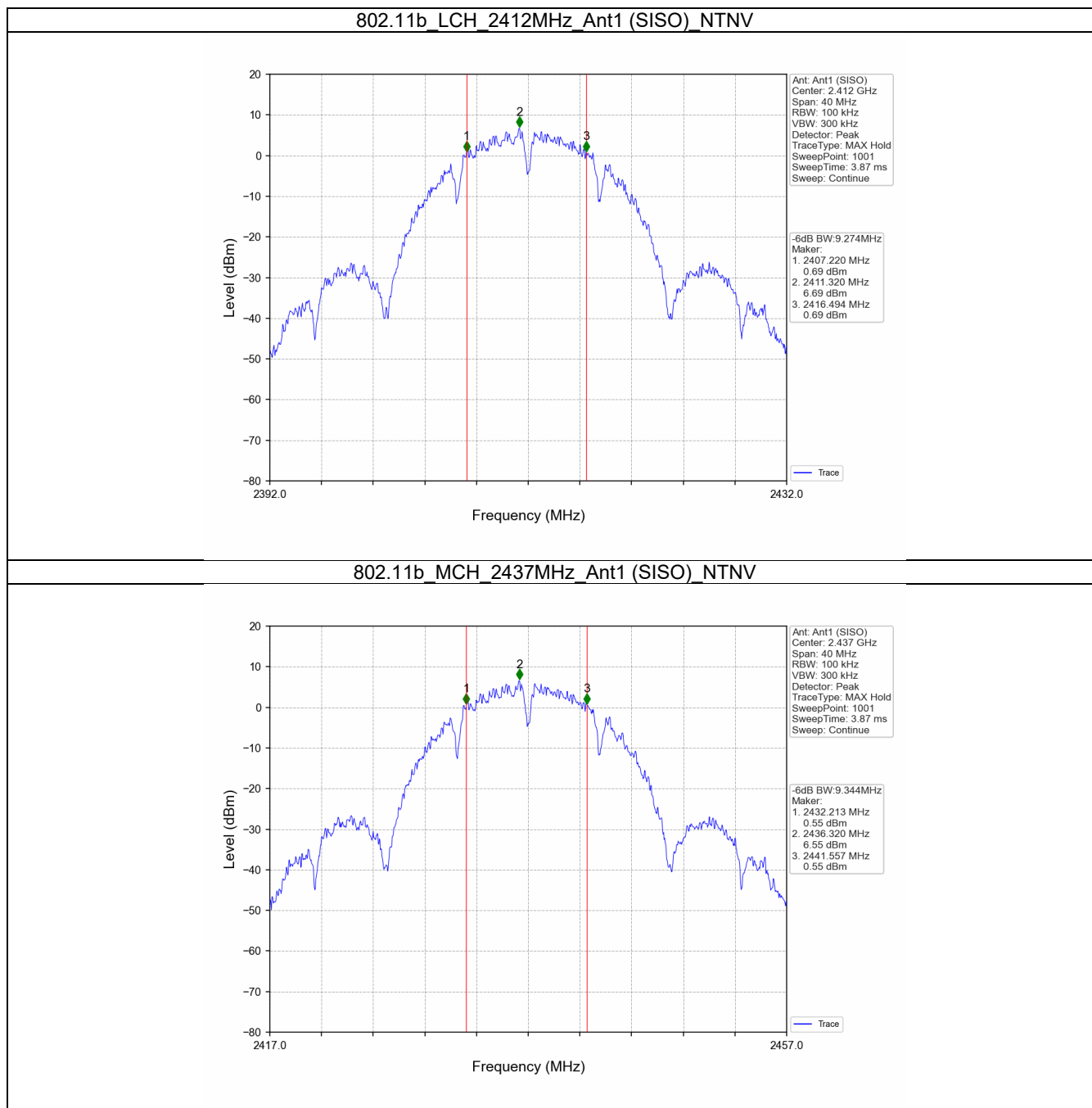
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## 2.2.2 Test Graph



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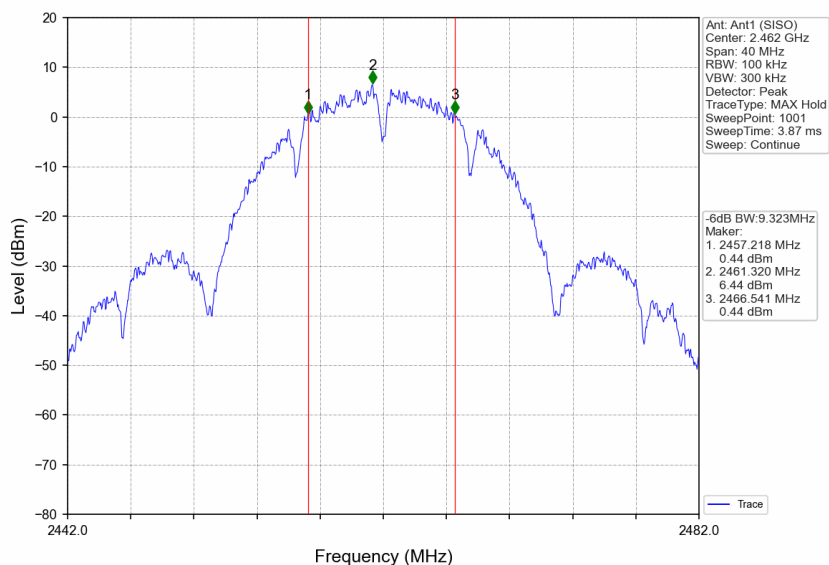
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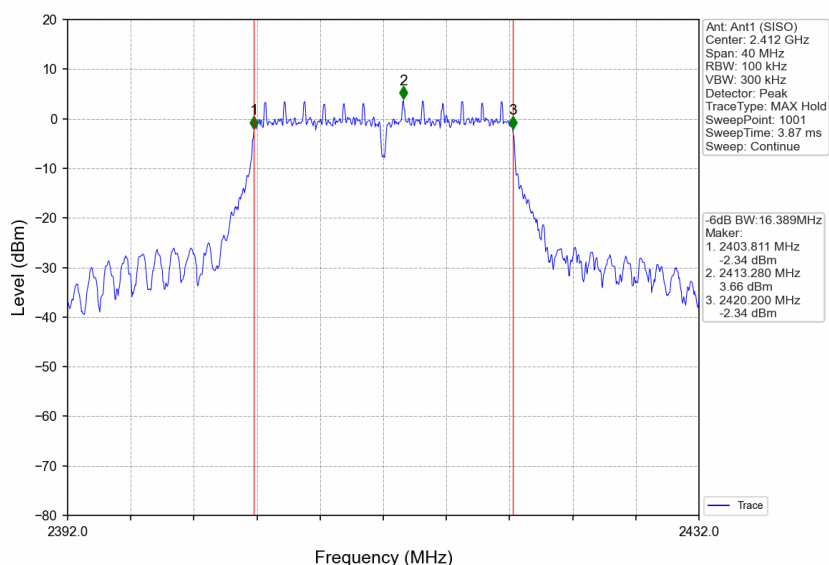
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## 802.11b HCH 2462MHz Ant1 (SISO) NTNV



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



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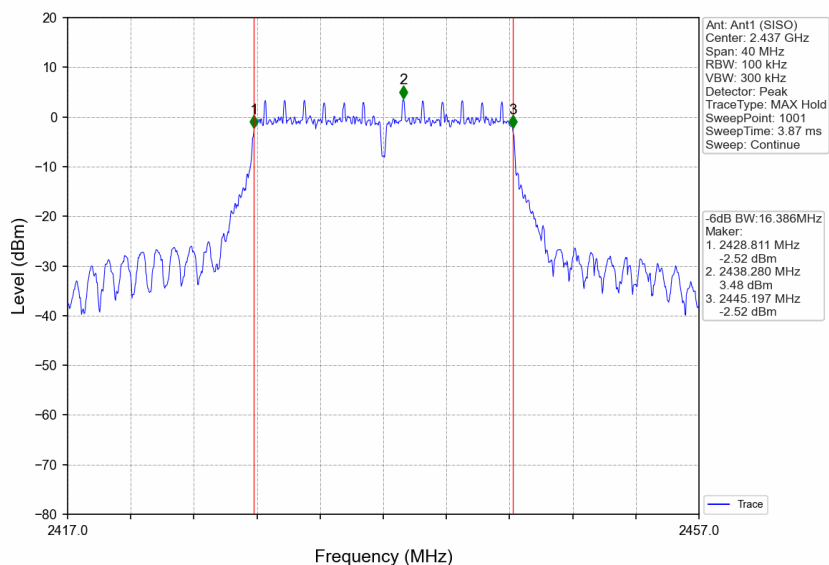
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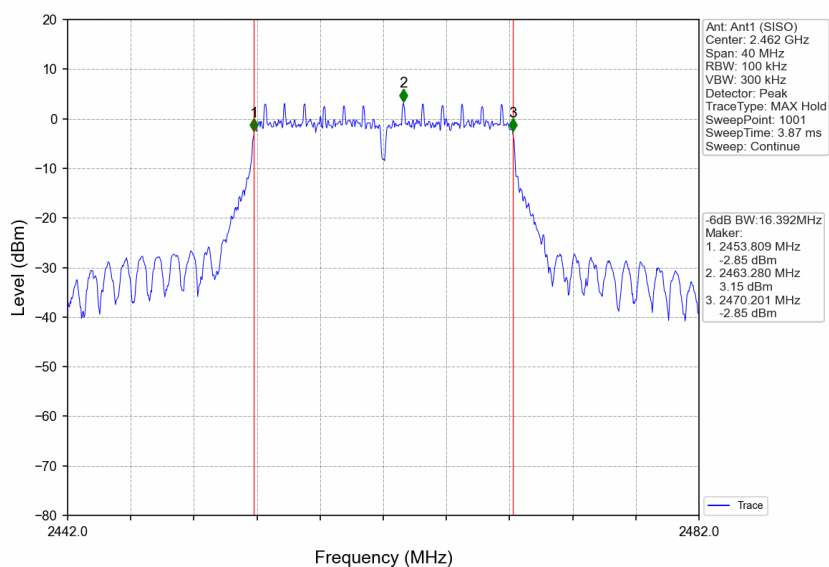
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802.11g MCH 2437MHz Ant1 (SISO) NTNV



802.11g HCH 2462MHz Ant1 (SISO) NTNV



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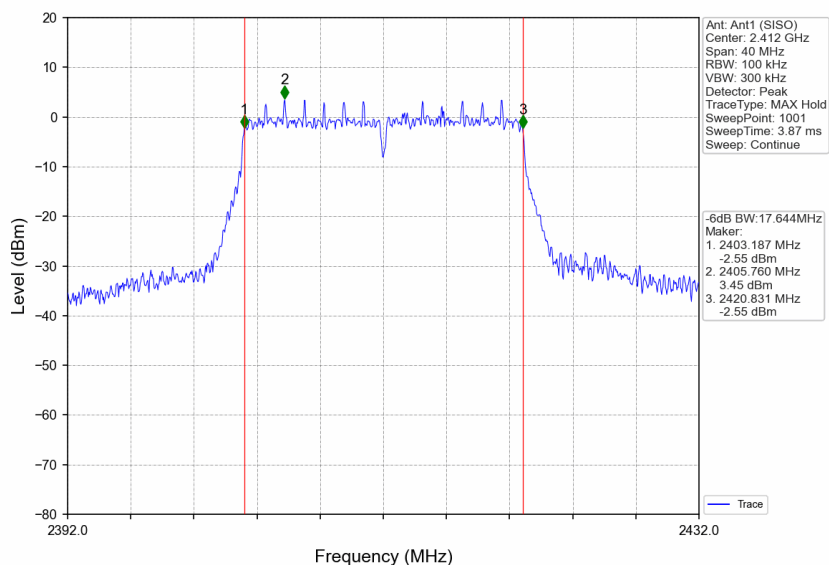
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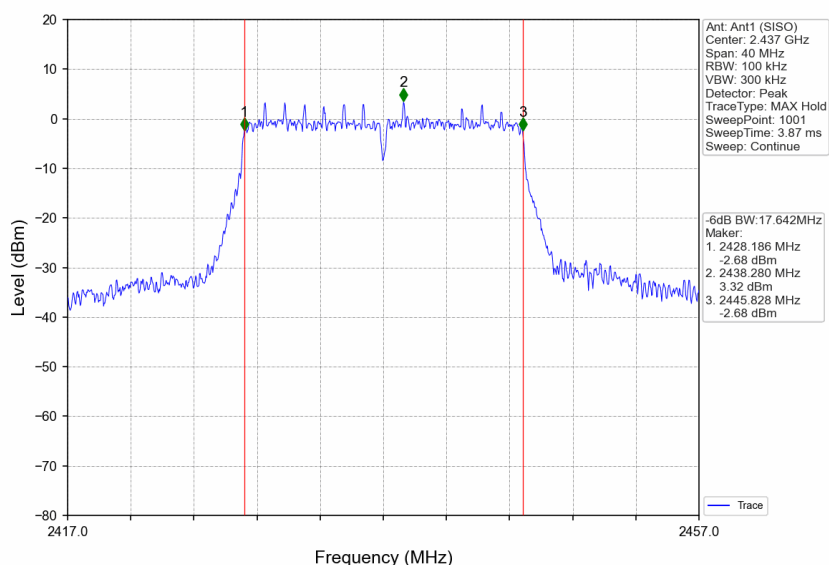
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## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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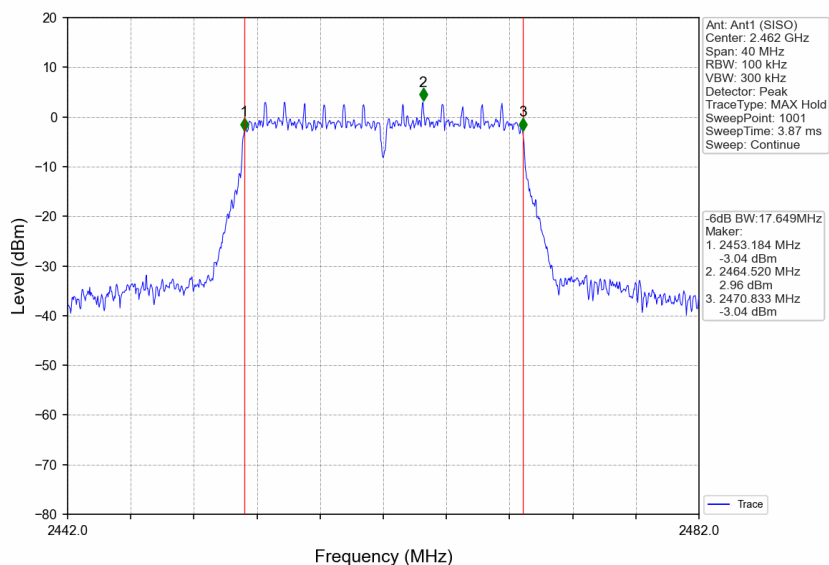
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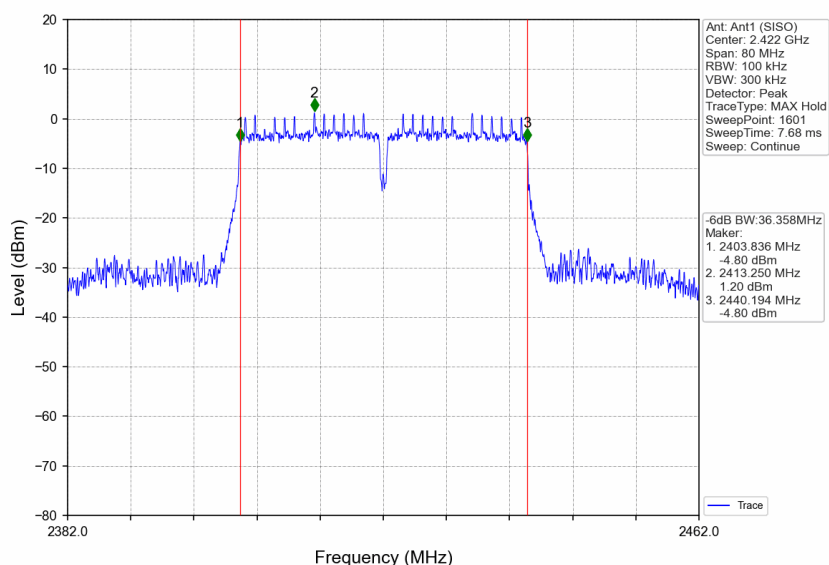
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## 802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



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



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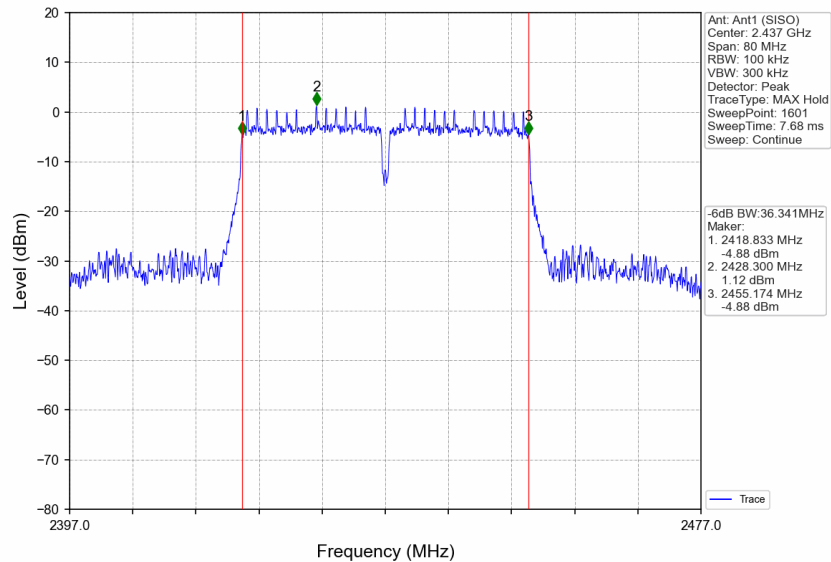
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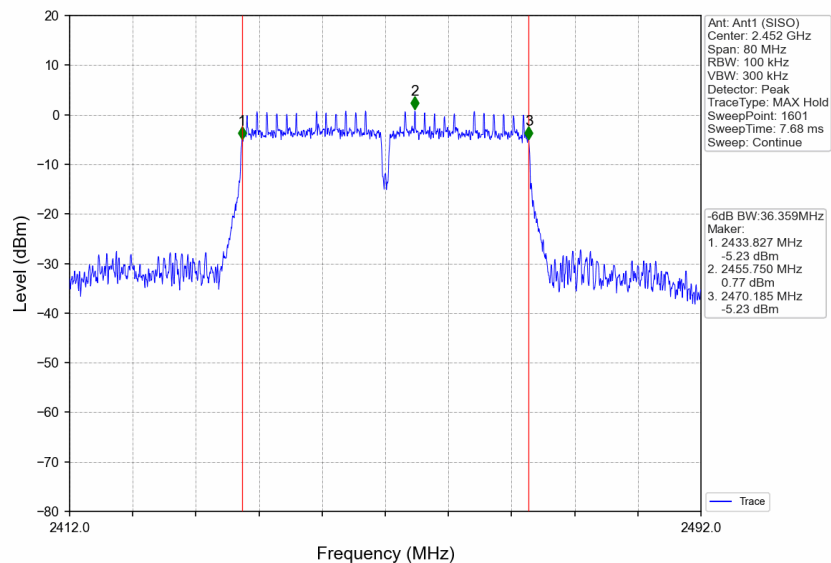
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## 802.11n(HT40) MCH\_2437MHz Ant1 (SISO) NTNV



## 802.11n(HT40) HCH\_2452MHz Ant1 (SISO) NTNV



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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|----------------|---------|-----------------|-------------------------------------------|-------|---------|
|                |         |                 | Ant1                                      | Limit |         |
| 802.11b        | SISO    | 2412            | 18.72                                     | <=30  | Pass    |
|                |         | 2437            | 18.56                                     | <=30  | Pass    |
|                |         | 2462            | 18.25                                     | <=30  | Pass    |
| 802.11g        | SISO    | 2412            | 22.55                                     | <=30  | Pass    |
|                |         | 2437            | 22.36                                     | <=30  | Pass    |
|                |         | 2462            | 22.13                                     | <=30  | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 22.42                                     | <=30  | Pass    |
|                |         | 2437            | 22.29                                     | <=30  | Pass    |
|                |         | 2462            | 22.06                                     | <=30  | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 23.03                                     | <=30  | Pass    |
|                |         | 2437            | 22.90                                     | <=30  | Pass    |
|                |         | 2452            | 22.74                                     | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 1.50dBi;

### 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            | -6.00                  | <=8   | Pass    |
|                |         | 2437            | -6.16                  | <=8   | Pass    |
|                |         | 2462            | -6.49                  | <=8   | Pass    |
| 802.11g        | SISO    | 2412            | -13.36                 | <=8   | Pass    |
|                |         | 2437            | -12.41                 | <=8   | Pass    |
|                |         | 2462            | -13.40                 | <=8   | Pass    |
| 802.11n (HT20) | SISO    | 2412            | -13.04                 | <=8   | Pass    |
|                |         | 2437            | -13.33                 | <=8   | Pass    |
|                |         | 2462            | -13.34                 | <=8   | Pass    |
| 802.11n (HT40) | SISO    | 2422            | -14.97                 | <=8   | Pass    |
|                |         | 2437            | -13.77                 | <=8   | Pass    |
|                |         | 2452            | -14.77                 | <=8   | Pass    |

Note1: Antenna Gain: Ant1: 1.50dBi;



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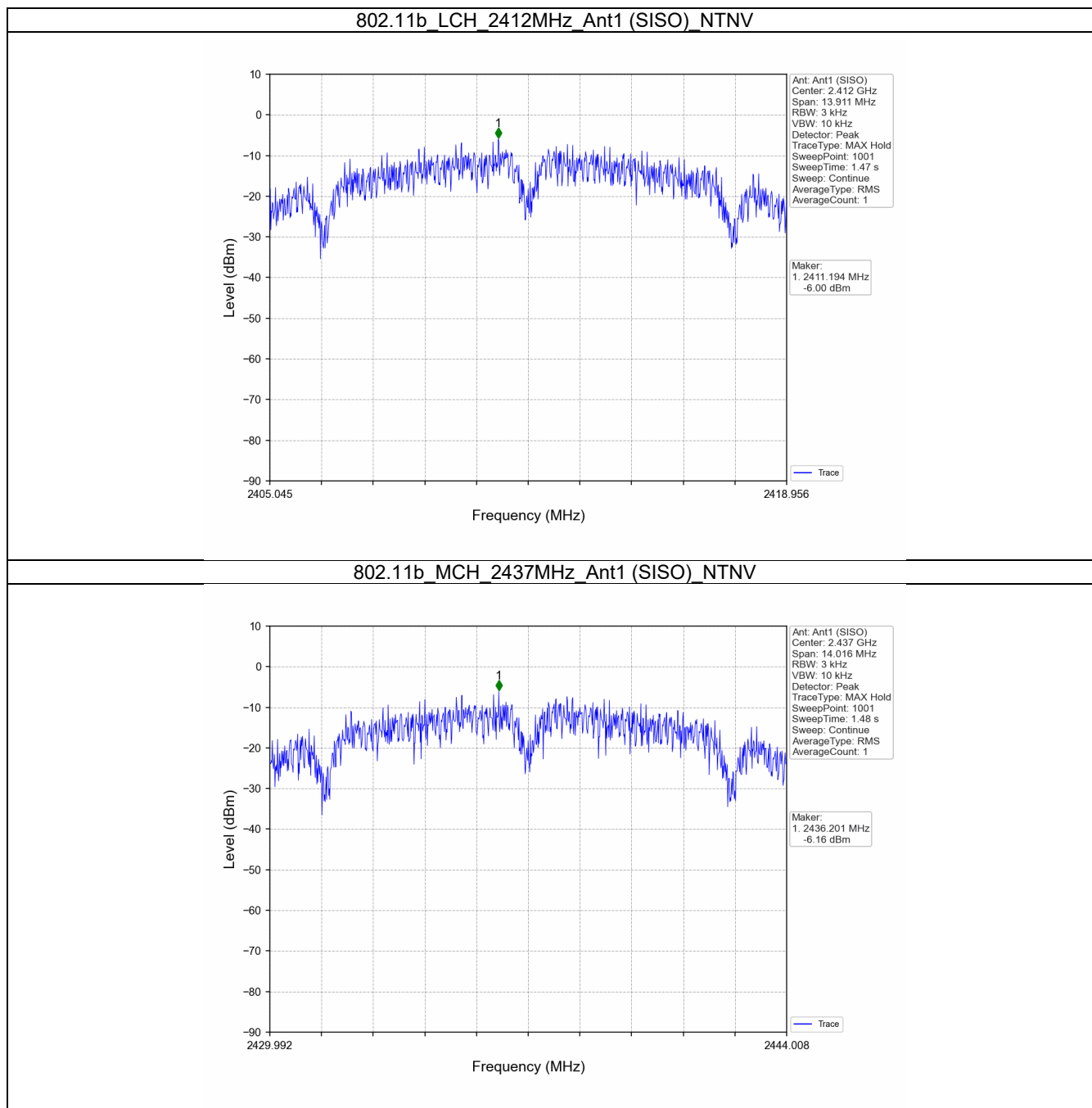
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## 4.1.2 Test Graph



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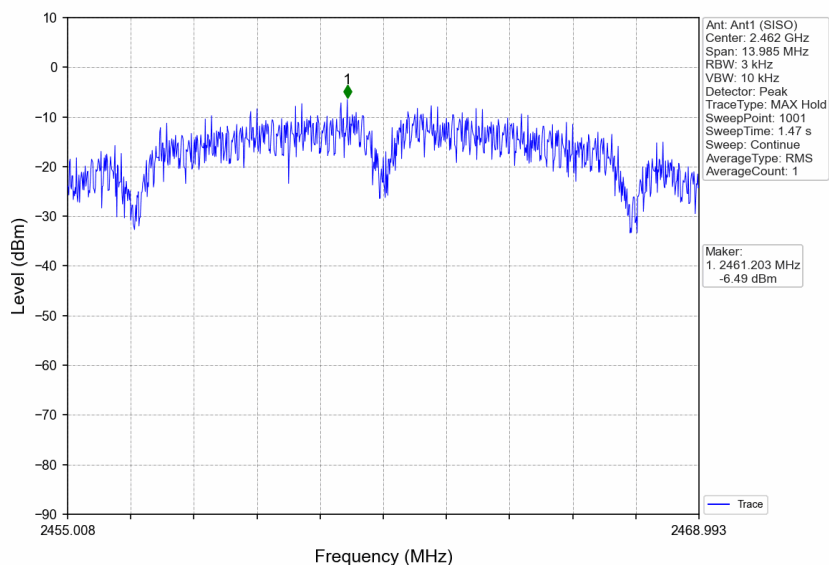
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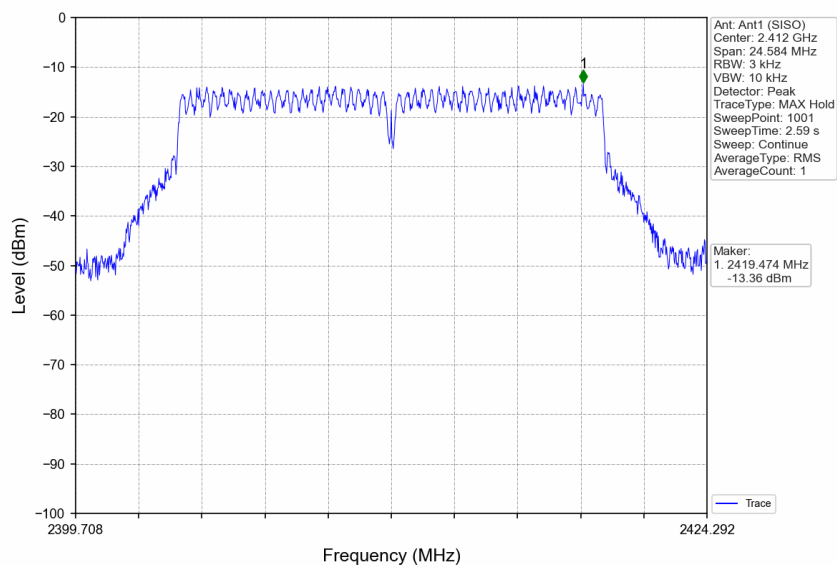
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## 802.11b HCH 2462MHz Ant1 (SISO) NTNV



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



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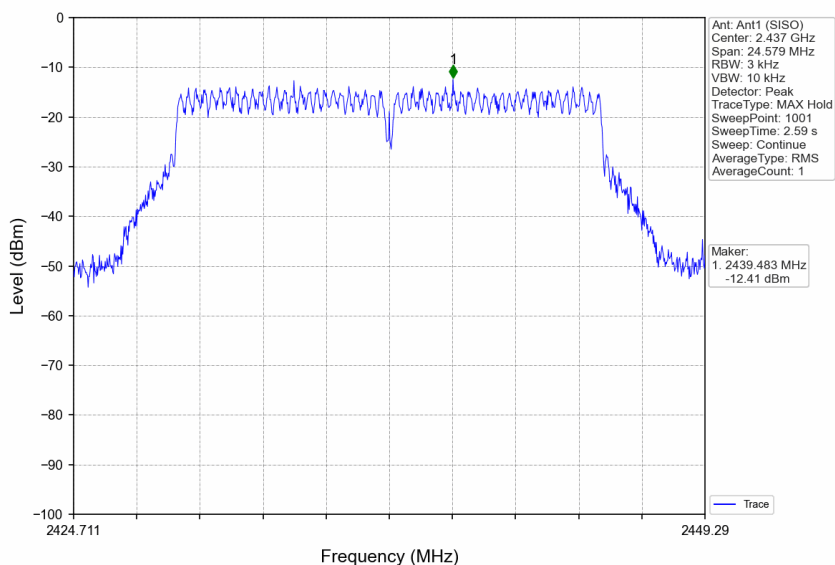
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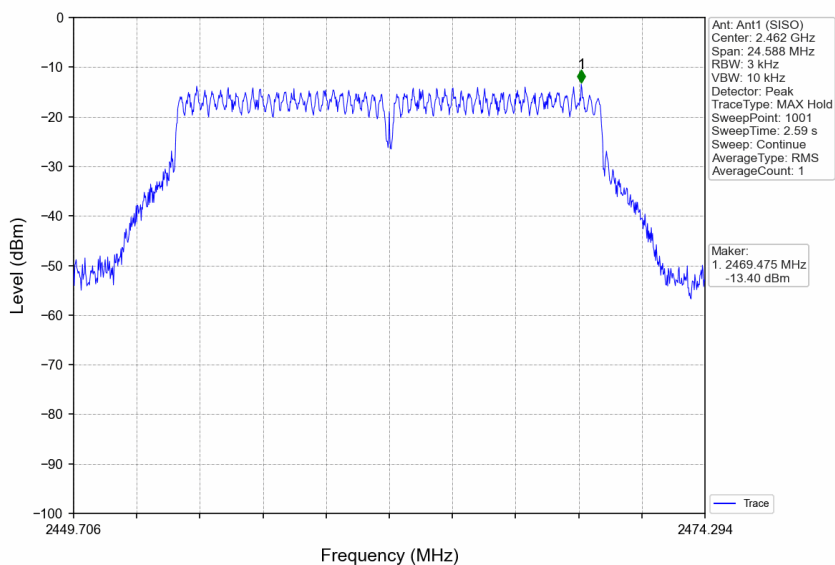
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant1 (SISO) NTN



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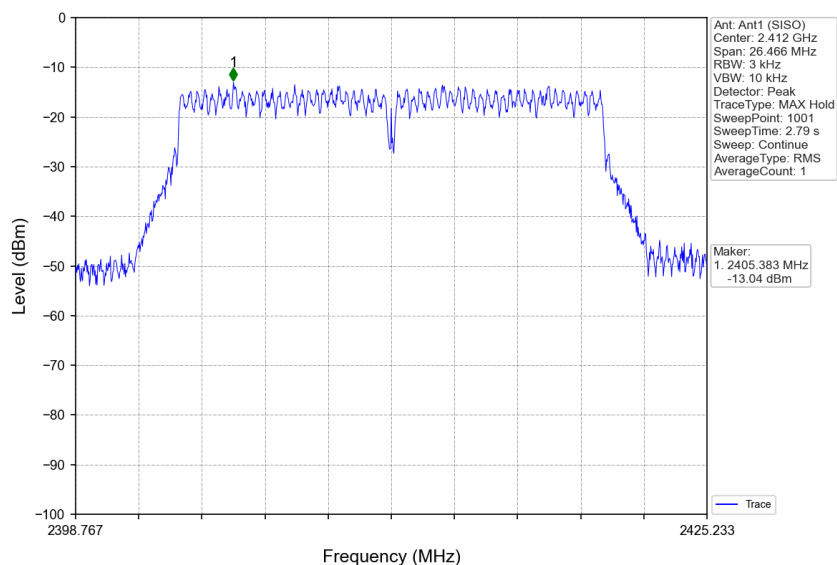
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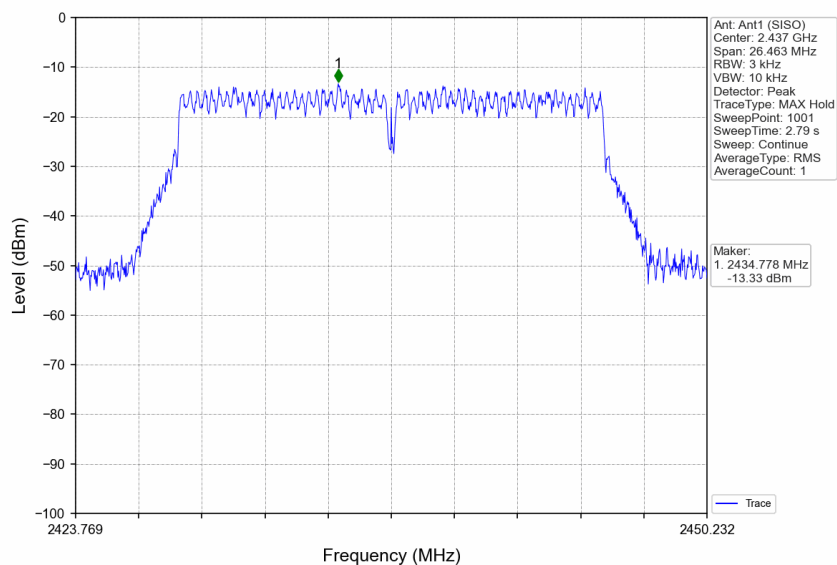
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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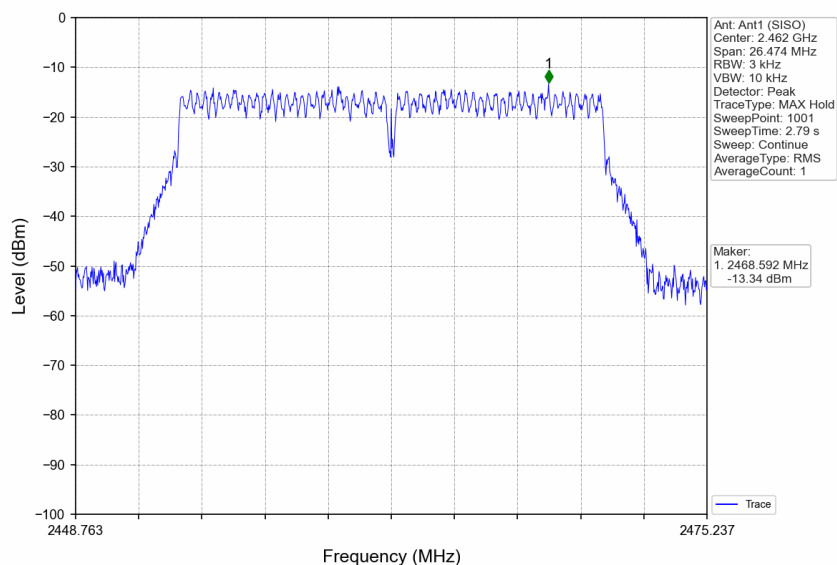
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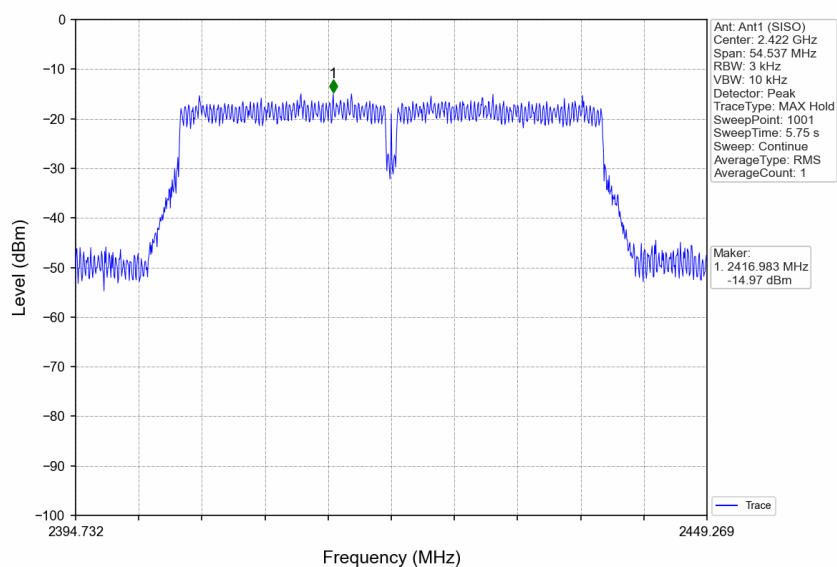
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



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



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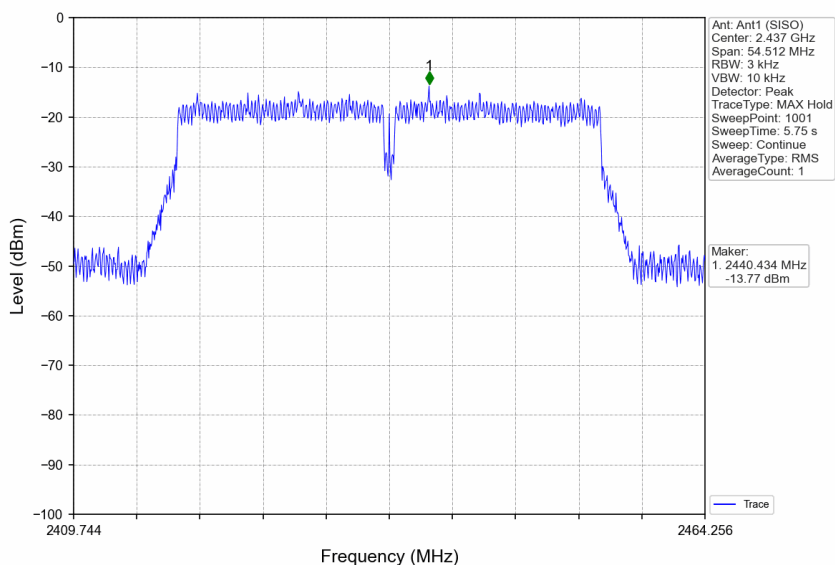
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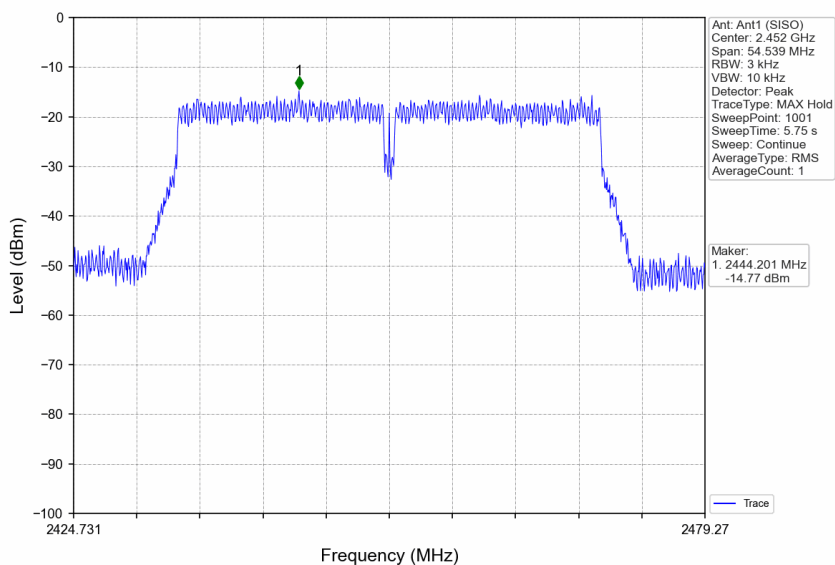
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802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTN



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



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

### 5.1 Ref

#### 5.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b        | SISO    | 2412            | 1   | 6.69                     |
|                |         | 2437            | 1   | 6.24                     |
|                |         | 2462            | 1   | 6.04                     |
| 802.11g        | SISO    | 2412            | 1   | 3.49                     |
|                |         | 2437            | 1   | 3.35                     |
|                |         | 2462            | 1   | 3.02                     |
| 802.11n (HT20) | SISO    | 2412            | 1   | 3.44                     |
|                |         | 2437            | 1   | 3.25                     |
|                |         | 2462            | 1   | 2.98                     |
| 802.11n (HT40) | SISO    | 2422            | 1   | 1.18                     |
|                |         | 2437            | 1   | 0.93                     |
|                |         | 2452            | 1   | 0.90                     |

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



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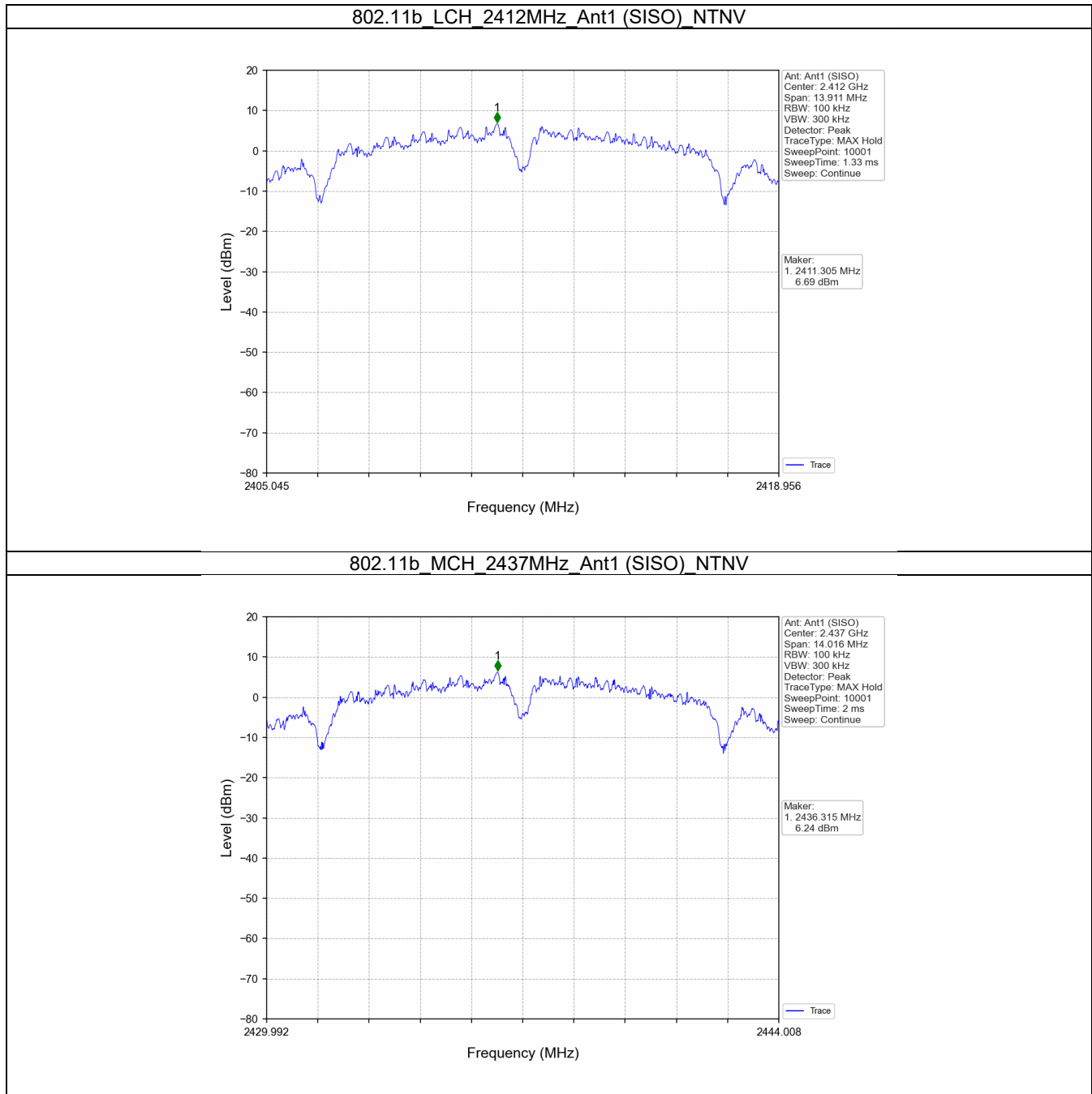
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## 5.1.2 Test Graph



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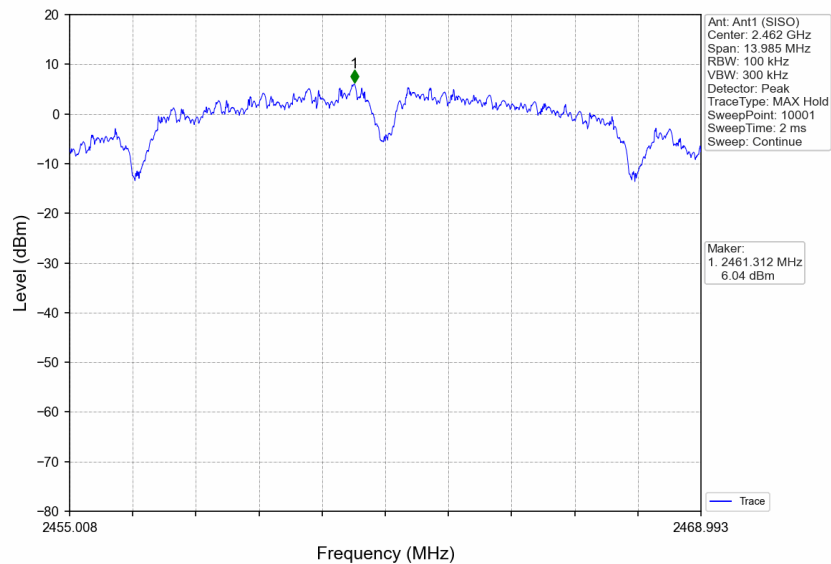
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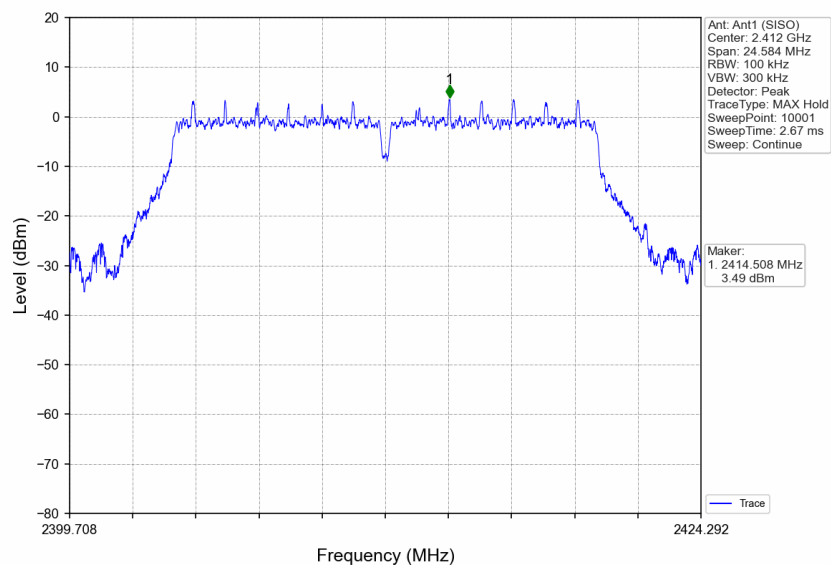
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## 802.11b HCH 2462MHz Ant1 (SISO) NTNV



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



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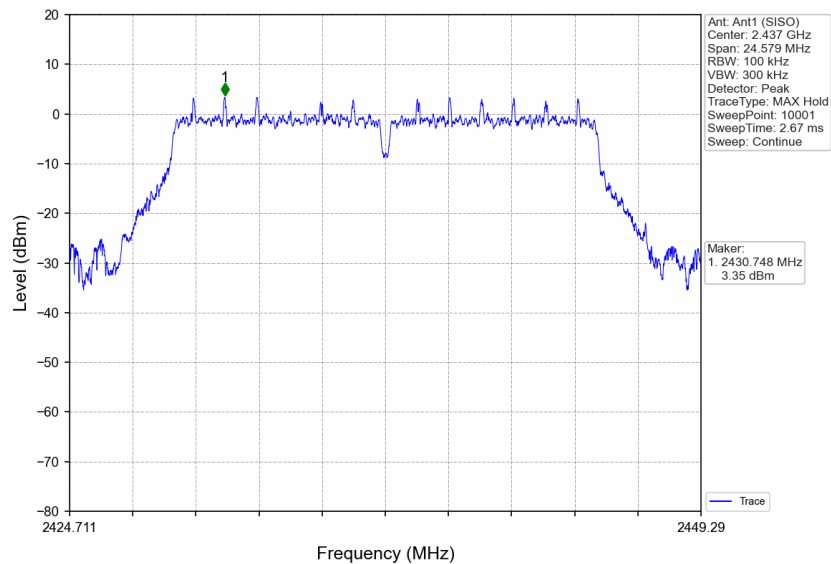
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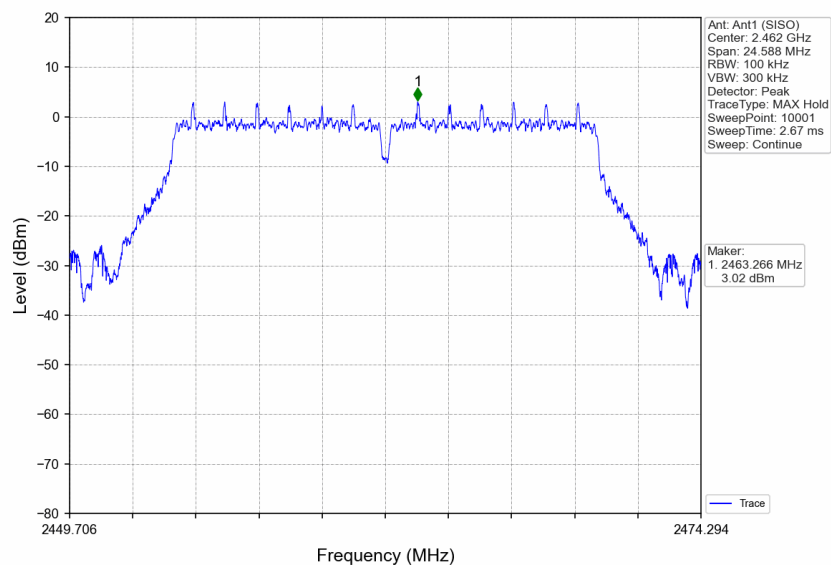
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802.11g MCH 2437MHz Ant1 (SISO) NTNV



802.11g HCH 2462MHz Ant1 (SISO) NTNV



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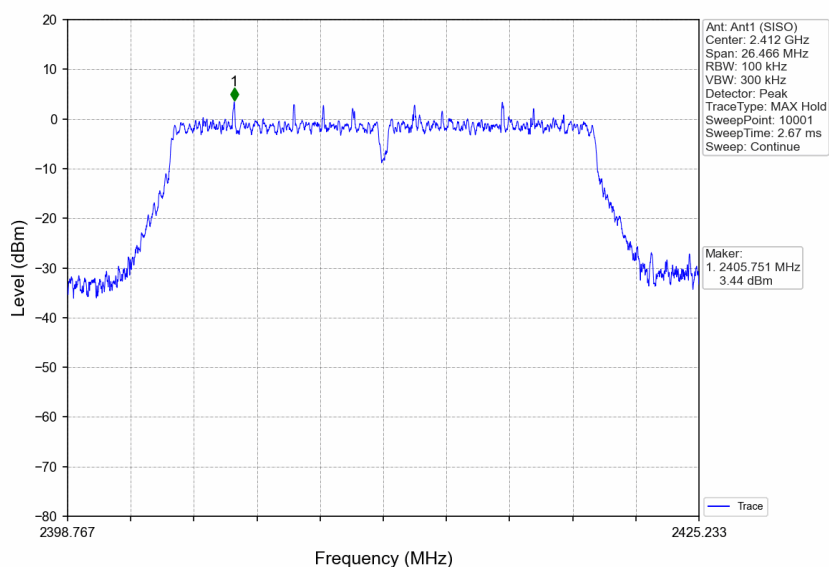
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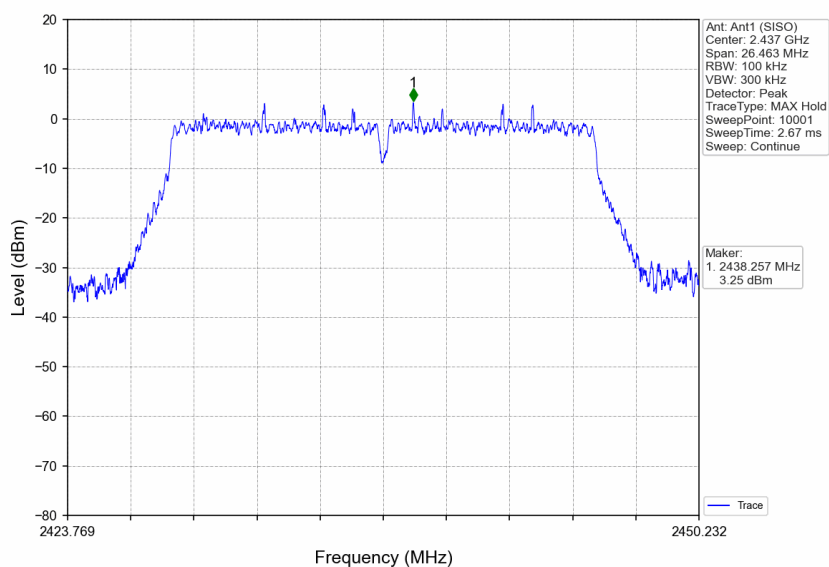
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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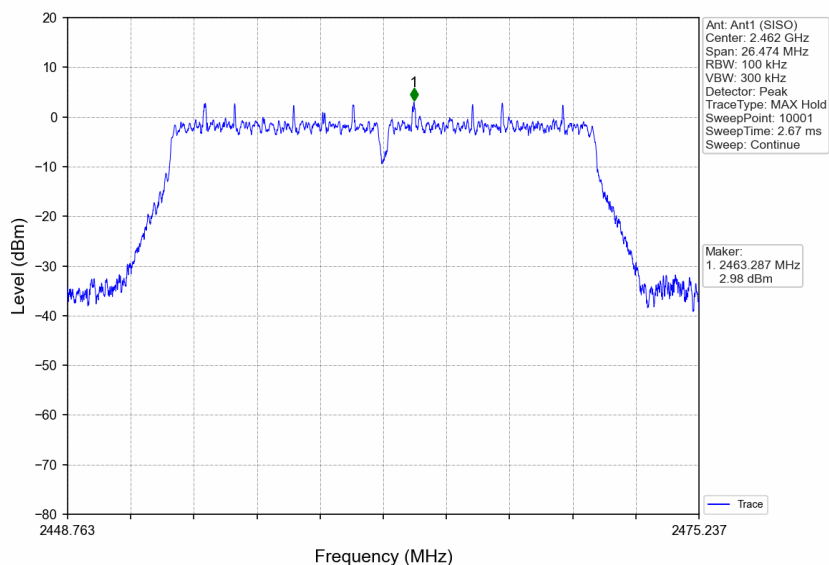
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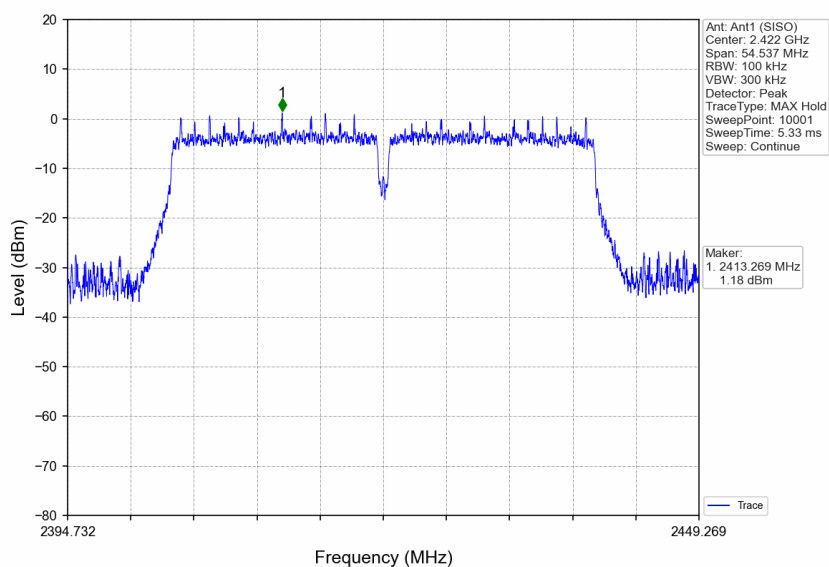
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



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



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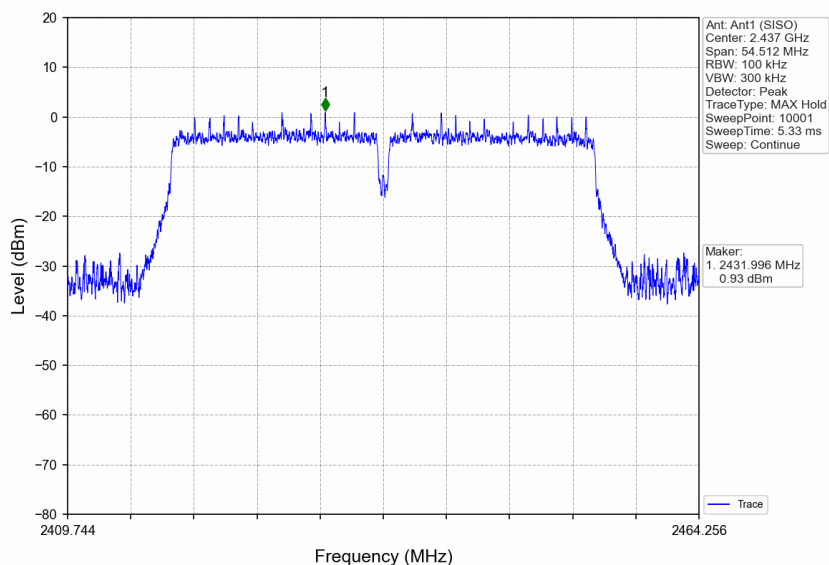
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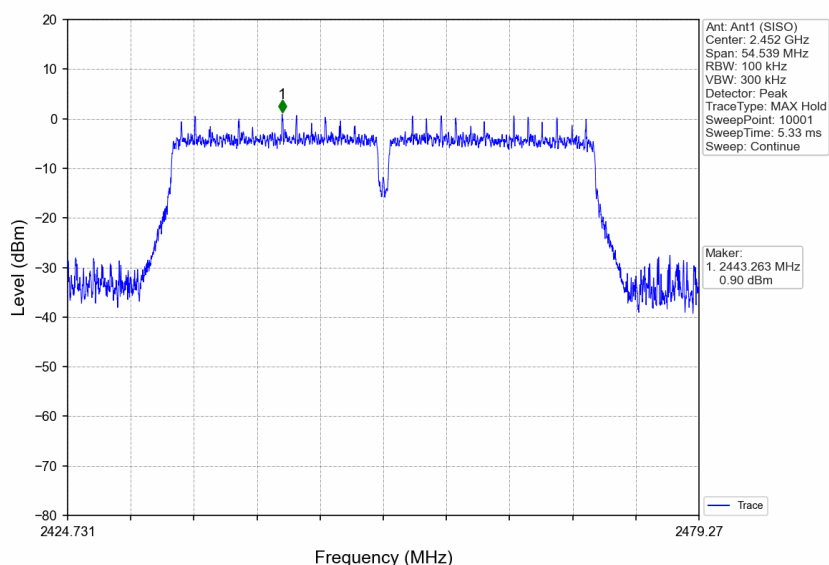
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## 802.11n(HT40) MCH\_2437MHz Ant1 (SISO) NTNV



## 802.11n(HT40) HCH\_2452MHz Ant1 (SISO) NTNV



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## 5.2 CSE

### 5.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b        | SISO    | 2412            | 1   | 6.69                     | -13.31      | Pass    |
|                |         | 2437            | 1   | 6.69                     | -13.31      | Pass    |
|                |         | 2462            | 1   | 6.69                     | -13.31      | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 3.49                     | -16.51      | Pass    |
|                |         | 2437            | 1   | 3.49                     | -16.51      | Pass    |
|                |         | 2462            | 1   | 3.49                     | -16.51      | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 3.44                     | -16.56      | Pass    |
|                |         | 2437            | 1   | 3.44                     | -16.56      | Pass    |
|                |         | 2462            | 1   | 3.44                     | -16.56      | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 1.18                     | -18.82      | Pass    |
|                |         | 2437            | 1   | 1.18                     | -18.82      | Pass    |
|                |         | 2452            | 1   | 1.18                     | -18.82      | Pass    |

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



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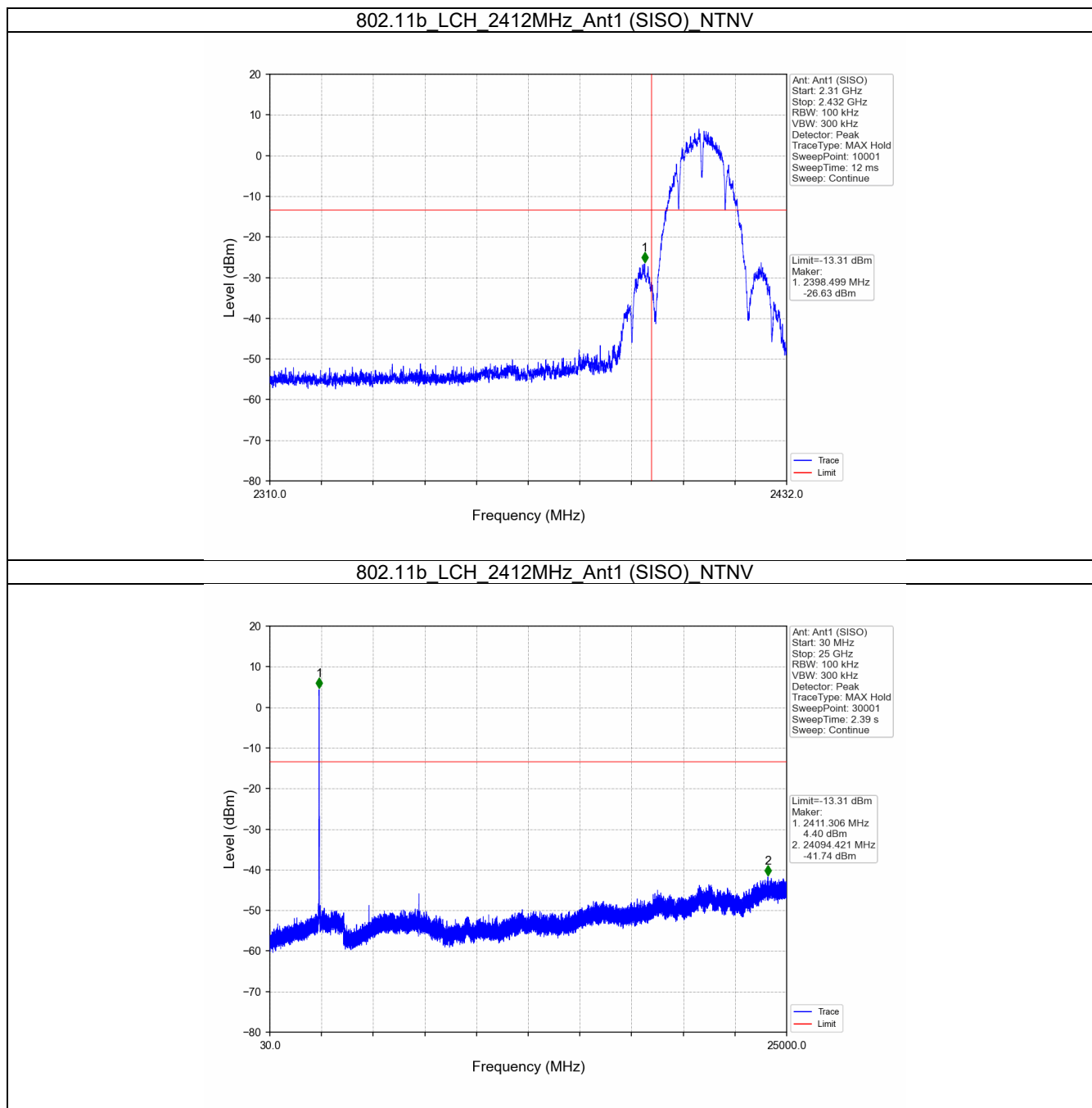
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## 5.2.2 Test Graph



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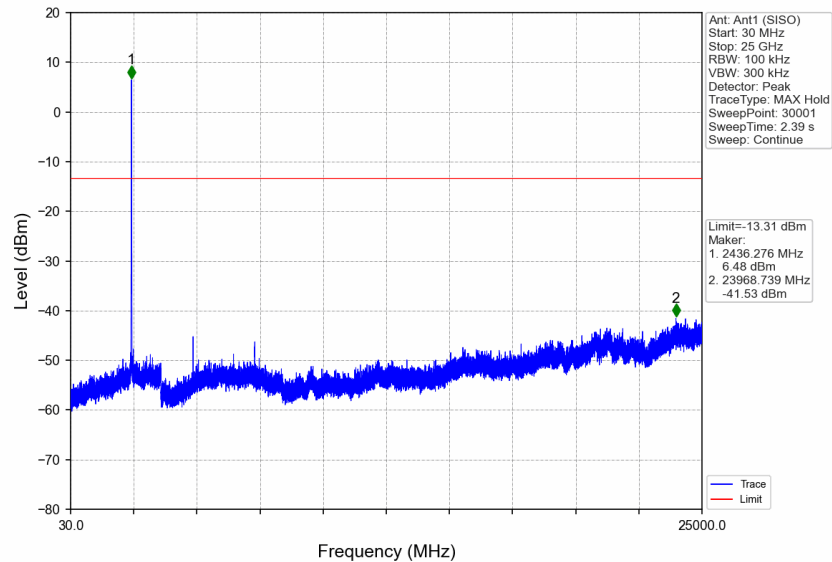
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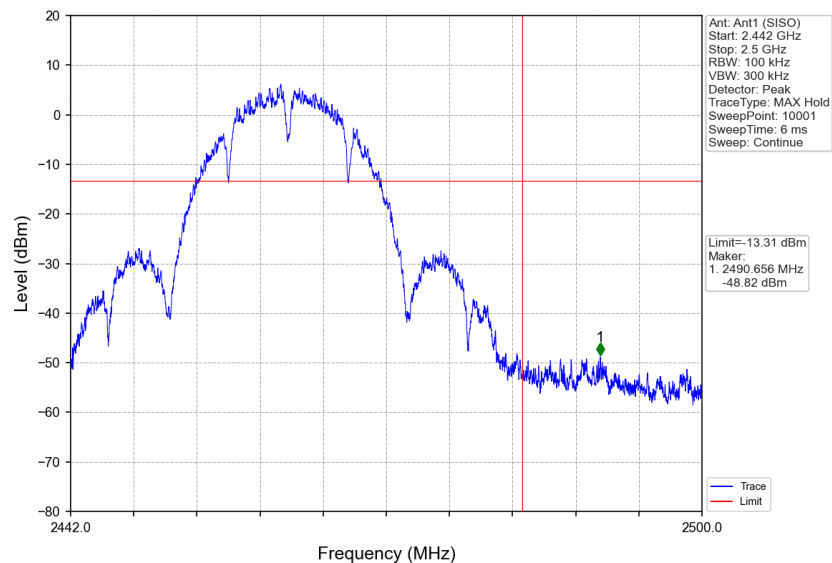
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## 802.11b MCH 2437MHz Ant1 (SISO) NTN



## 802.11b\_HCH 2462MHz\_Ant1 (SISO)\_NTNV



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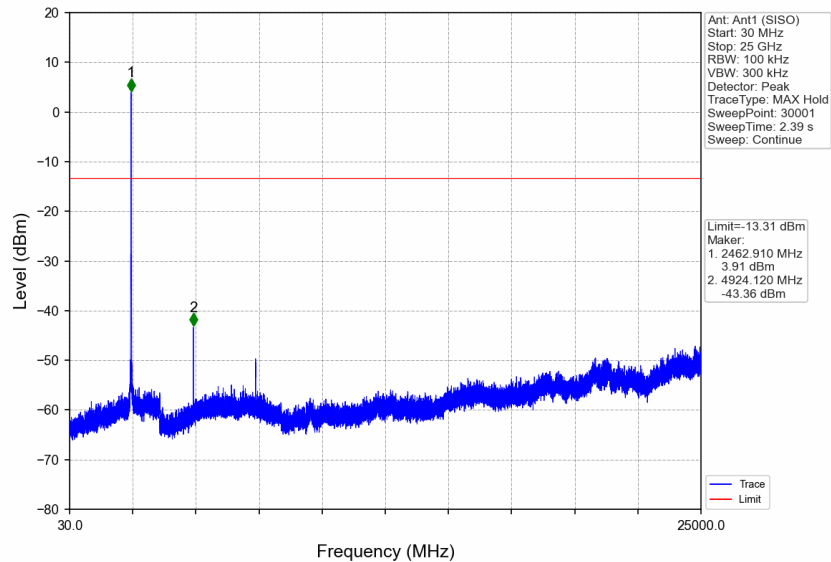
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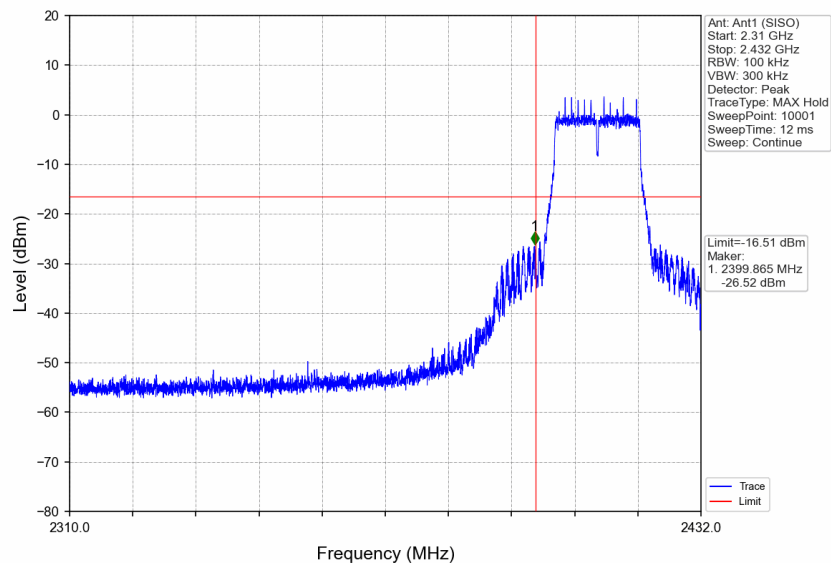
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## 802.11b HCH 2462MHz Ant1 (SISO) NTNV



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



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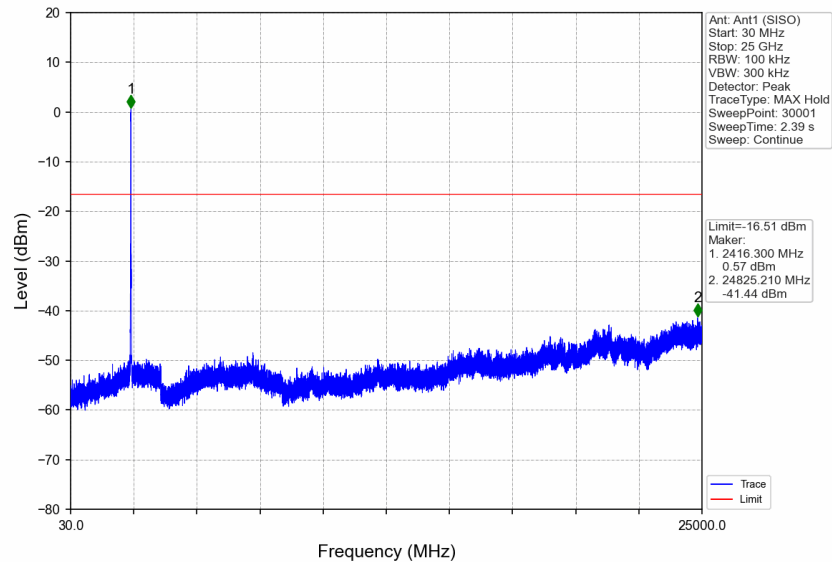
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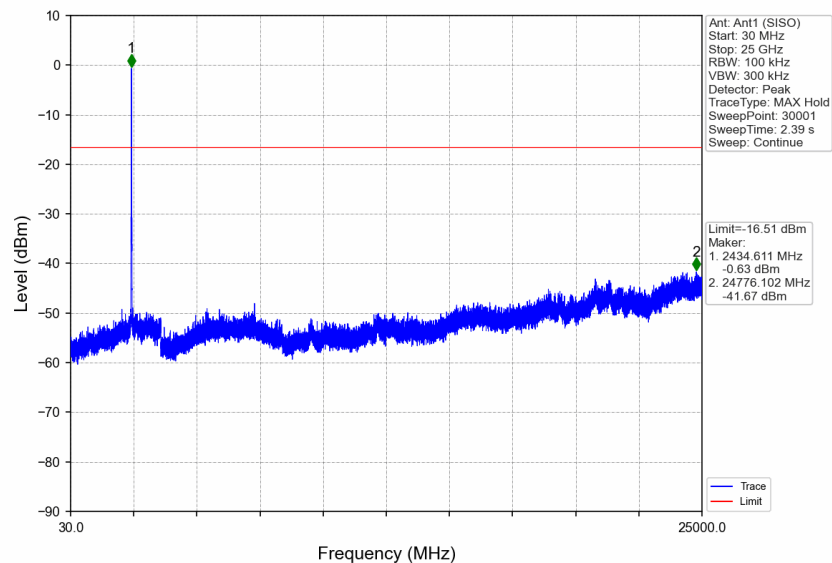
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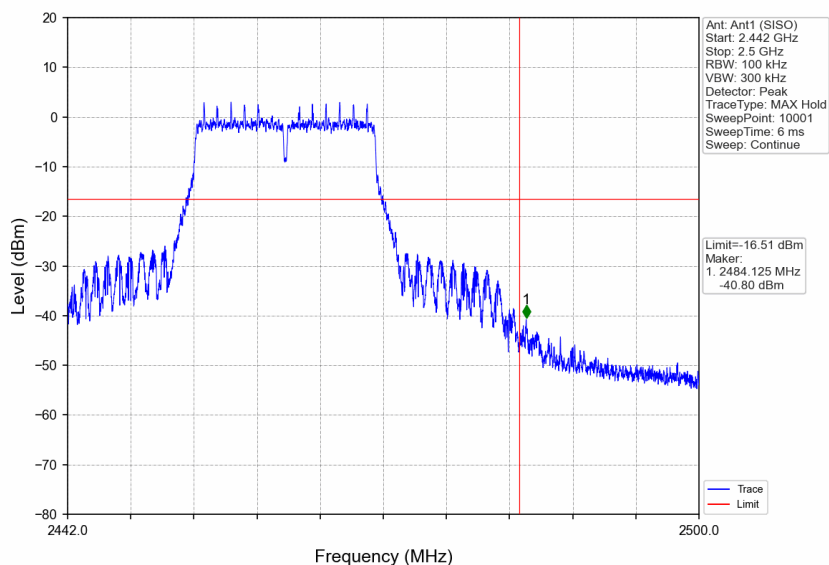
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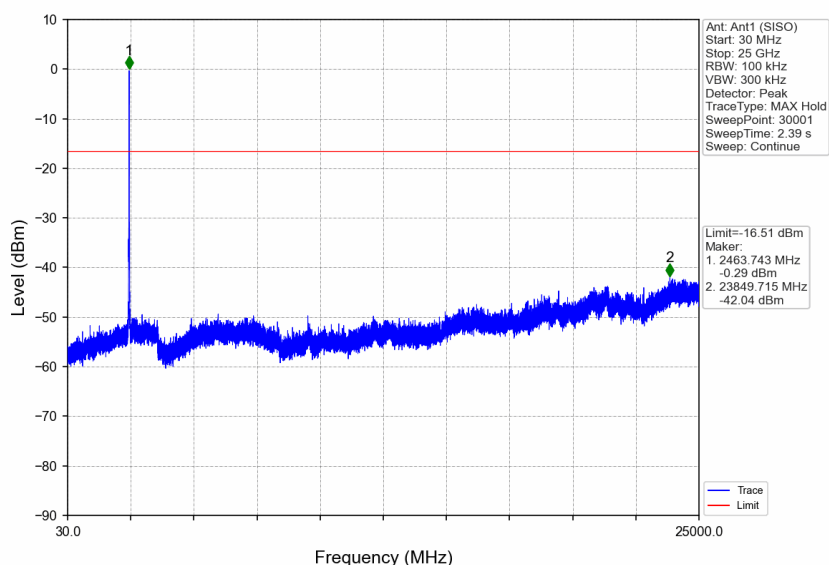
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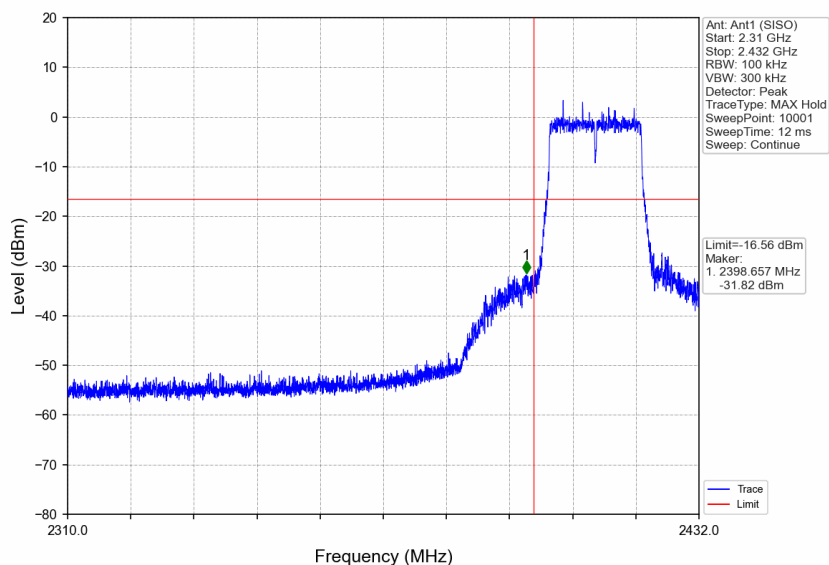
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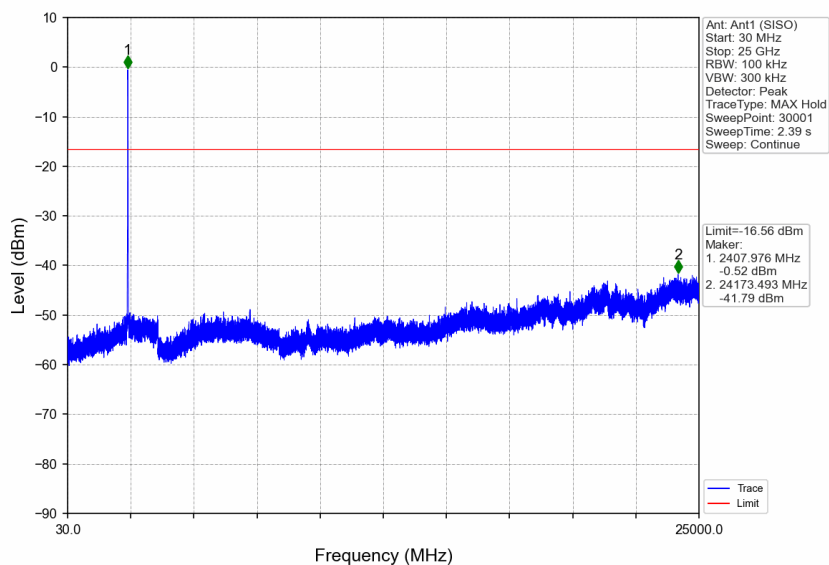
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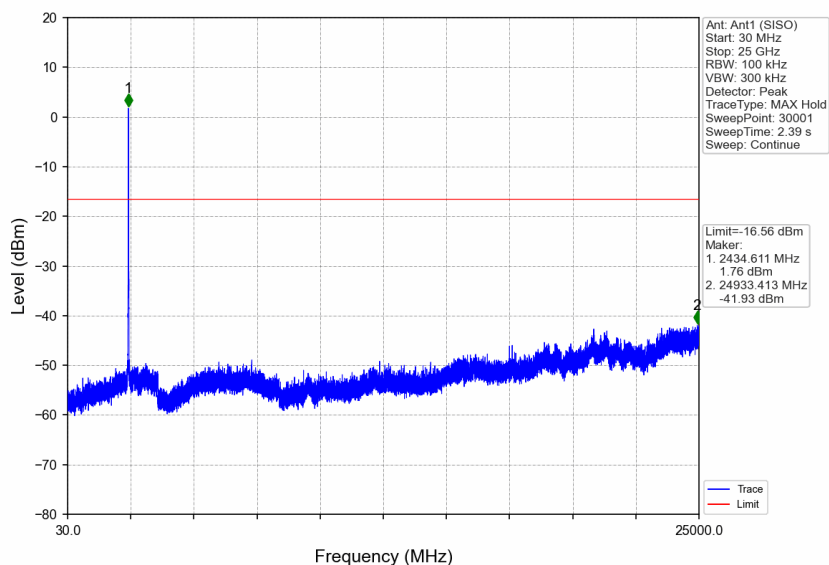
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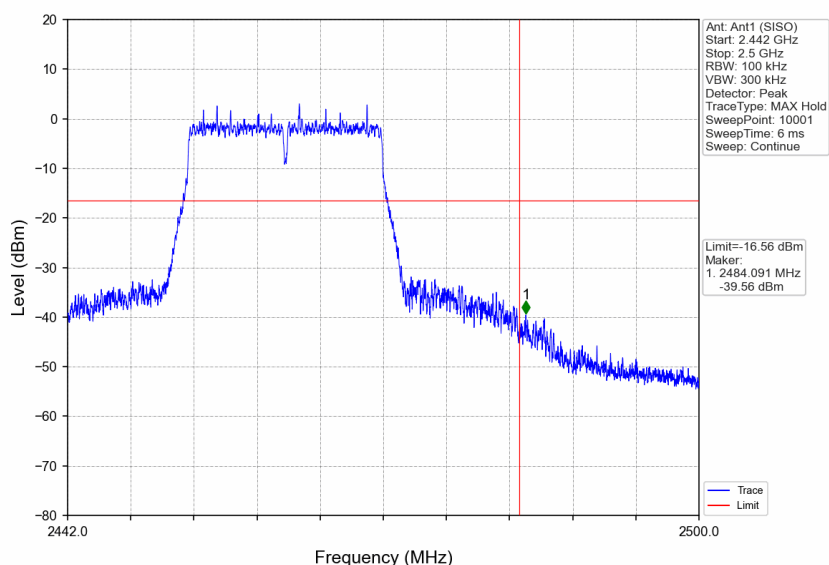
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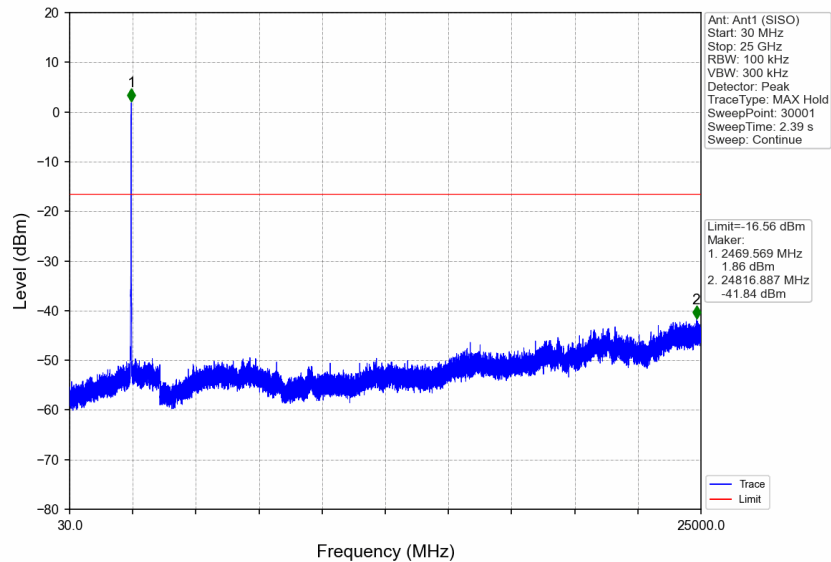
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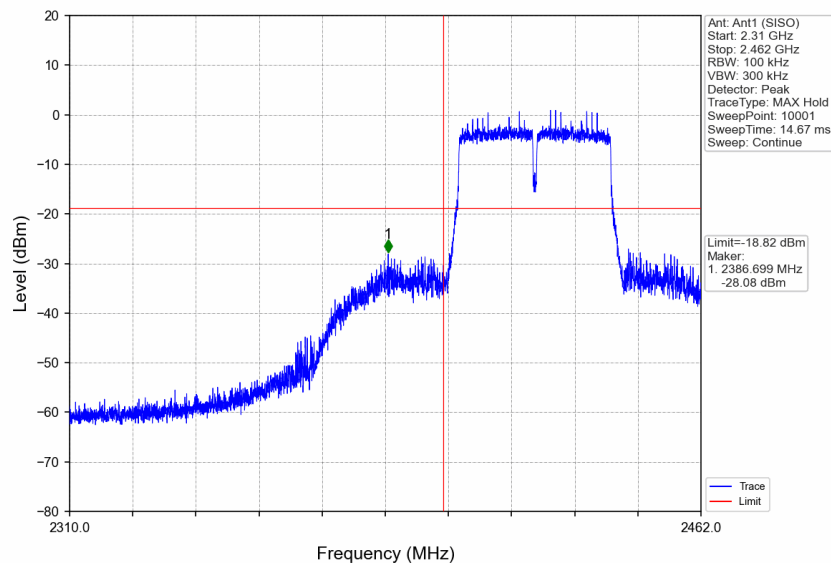
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## 802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



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



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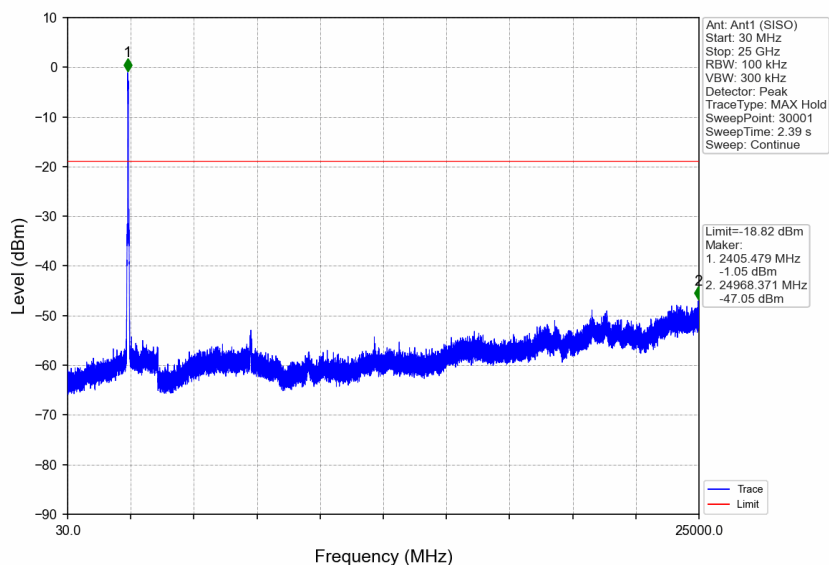
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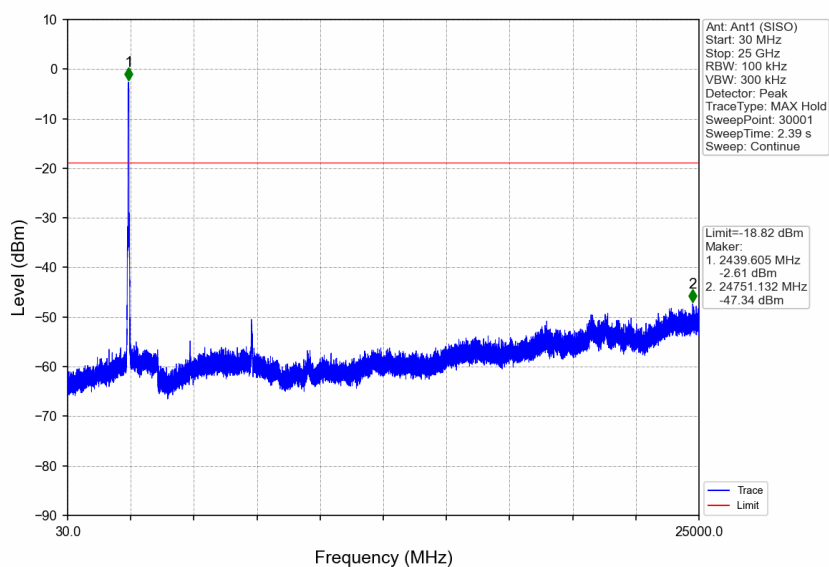
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## 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



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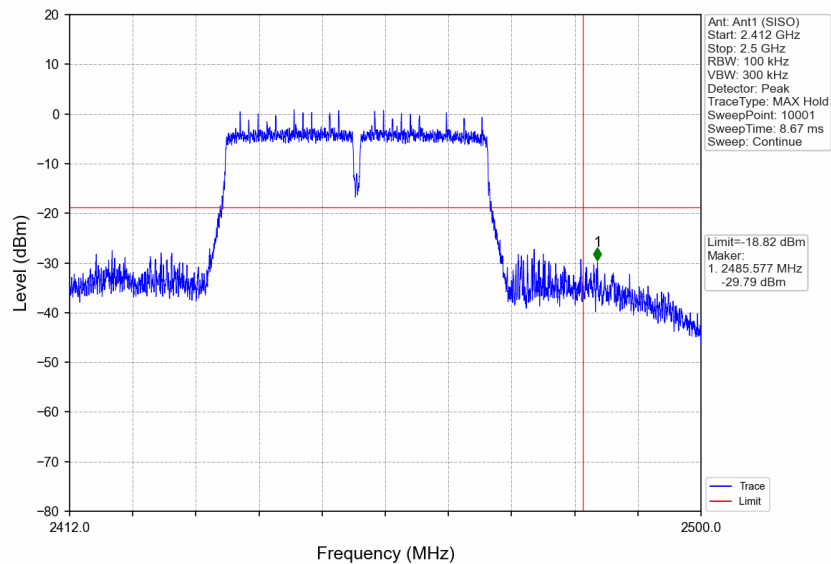
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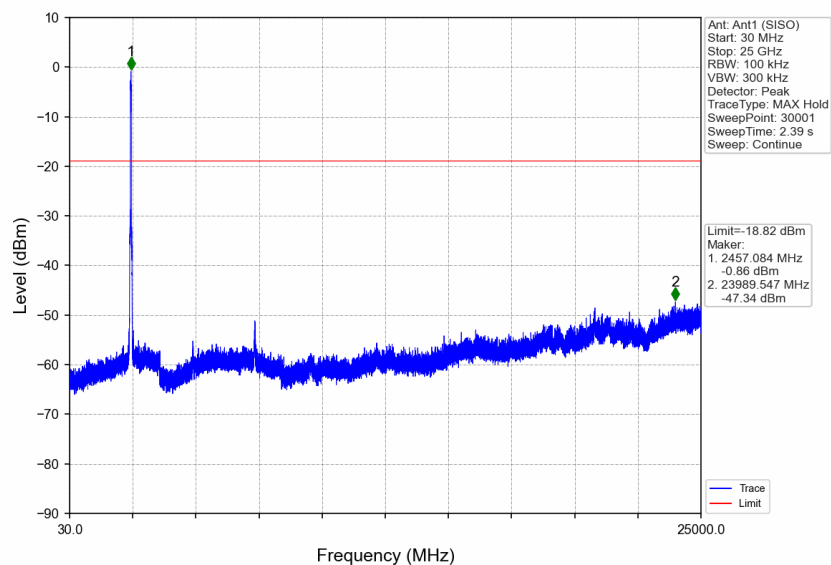
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802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



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



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