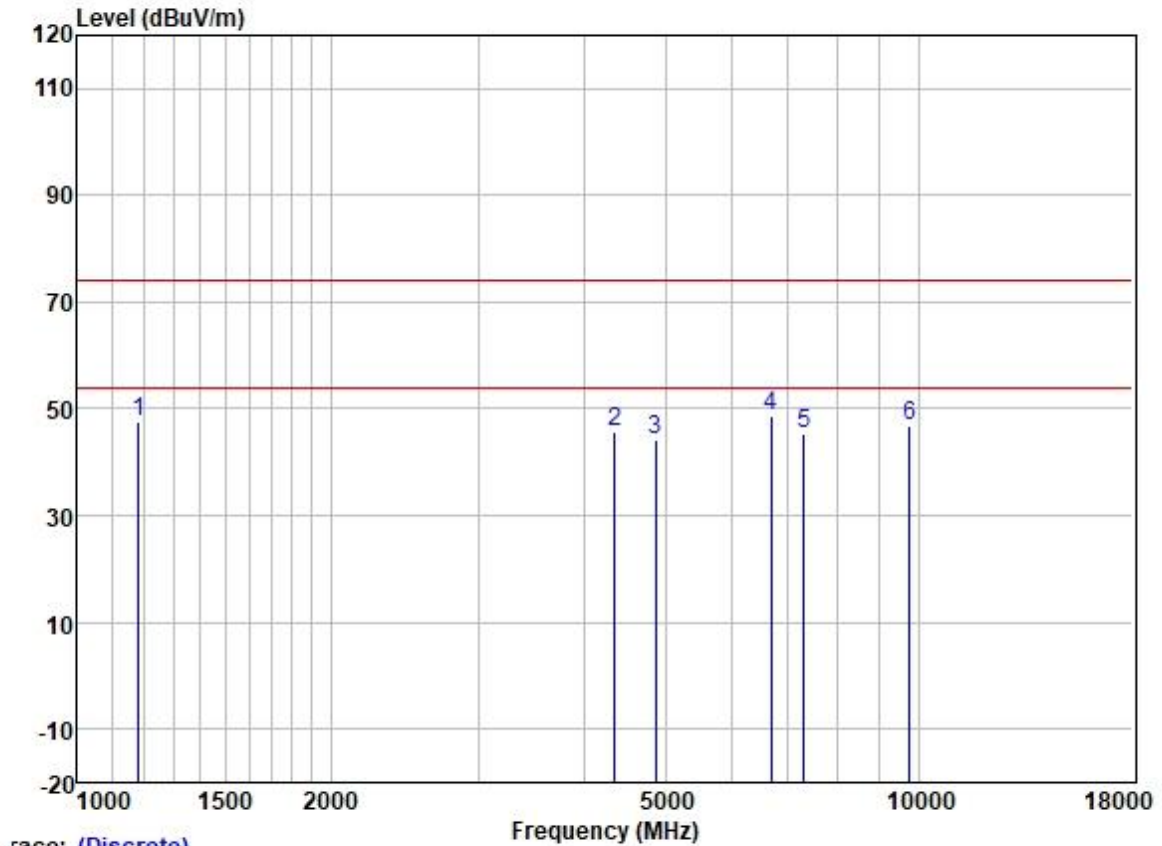


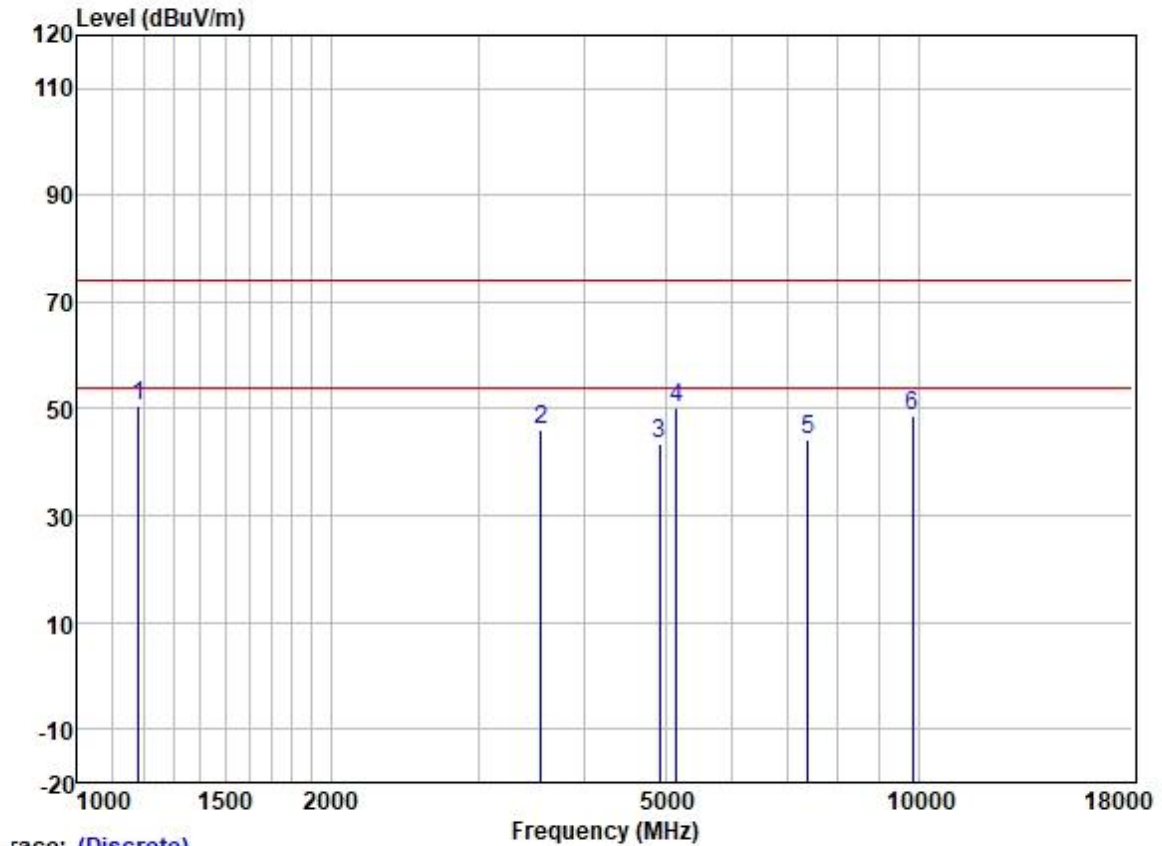
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

|   | Freq     | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |                 |
|---|----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
|   | MHz      | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark          |
|   | MHz      | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1 | 1182.513 | 58.65 | 24.60   | 2.37  | 38.17  | 47.45  | 74.00  | -26.55    | HORIZONTAL peak |
| 2 | 4354.454 | 47.07 | 30.59   | 4.68  | 36.64  | 45.70  | 74.00  | -28.30    | HORIZONTAL peak |
| 3 | 4874.000 | 43.49 | 31.54   | 5.50  | 36.48  | 44.05  | 74.00  | -29.95    | HORIZONTAL peak |
| 4 | 6679.040 | 44.97 | 34.33   | 5.83  | 36.39  | 48.74  | 74.00  | -25.26    | HORIZONTAL peak |
| 5 | 7311.000 | 40.12 | 35.93   | 6.11  | 36.99  | 45.17  | 74.00  | -28.83    | HORIZONTAL peak |
| 6 | 9748.000 | 38.27 | 38.50   | 7.02  | 36.83  | 46.96  | 74.00  | -27.04    | HORIZONTAL peak |

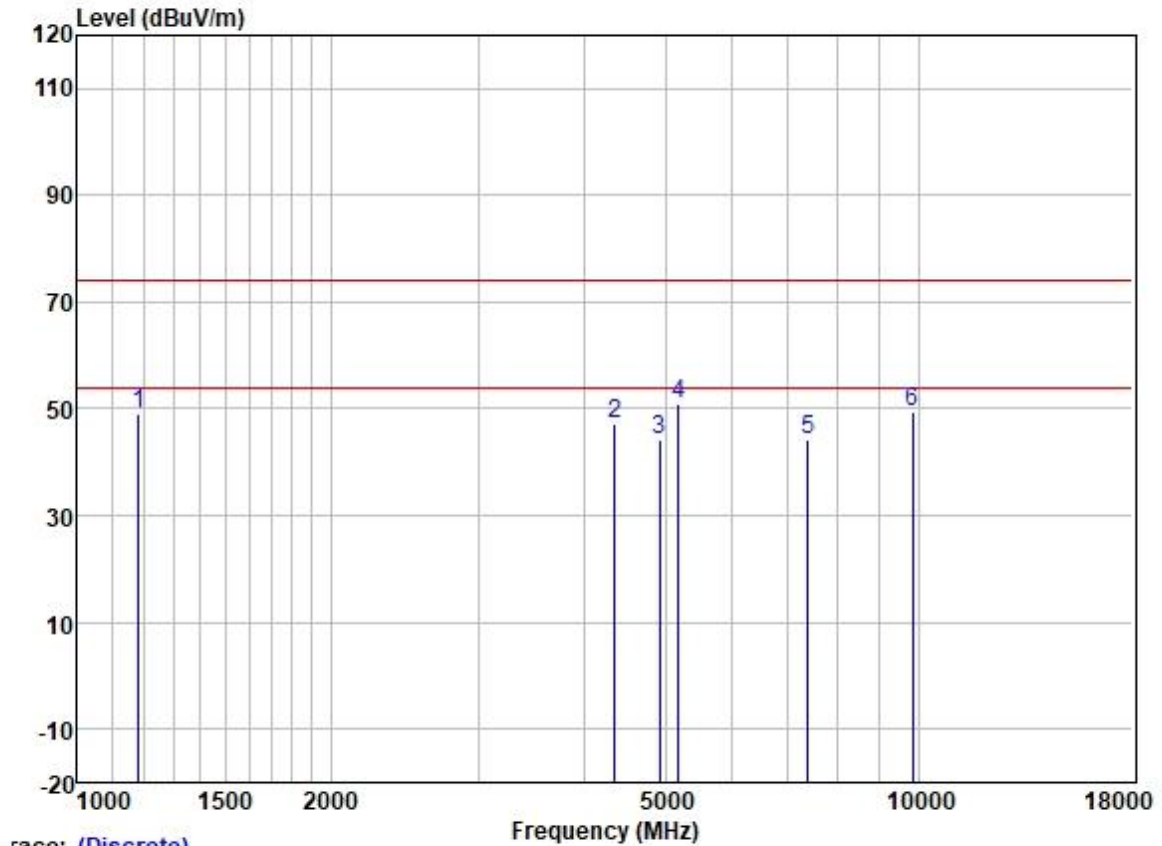
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

|   | Freq     | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz      | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz      | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1182.513 | 61.65 | 24.60   | 2.37  | 38.17  | 50.45  | 74.00  | -23.55    | VERTICAL peak |
| 2 | 3556.843 | 49.41 | 28.98   | 4.44  | 36.77  | 46.06  | 74.00  | -27.94    | VERTICAL peak |
| 3 | 4924.000 | 42.82 | 31.62   | 5.60  | 36.45  | 43.59  | 74.00  | -30.41    | VERTICAL peak |
| 4 | 5149.197 | 49.31 | 31.72   | 5.62  | 36.31  | 50.34  | 74.00  | -23.66    | VERTICAL peak |
| 5 | 7386.000 | 38.76 | 36.17   | 6.19  | 37.04  | 44.08  | 74.00  | -29.92    | VERTICAL peak |
| 6 | 9848.000 | 39.95 | 38.58   | 6.99  | 36.82  | 48.70  | 74.00  | -25.30    | VERTICAL peak |

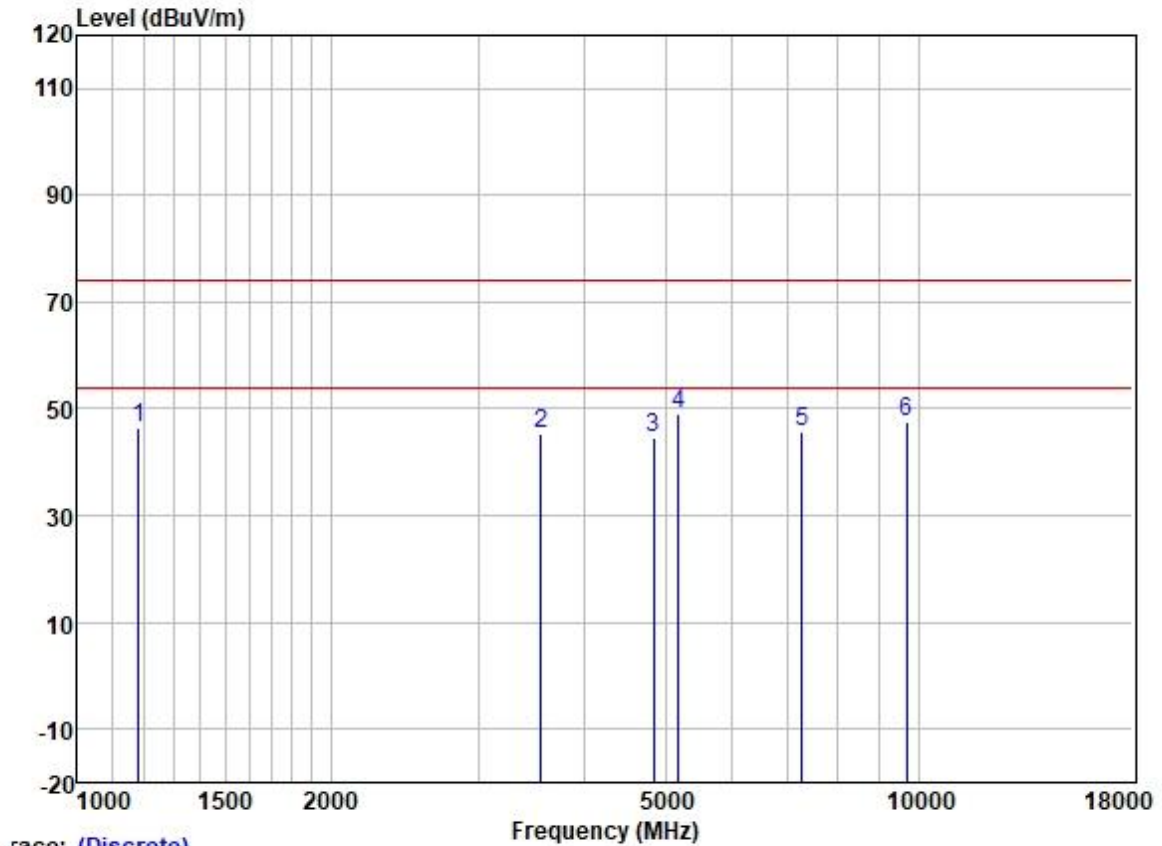
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

|   | Freq     | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |            |        |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
|   | MHz      | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1182.513 | 60.40       | 24.60  | 2.37   | 38.17  | 49.20  | 74.00  | -24.80 | HORIZONTAL | peak   |
| 2 | 4354.454 | 48.76       | 30.59  | 4.68   | 36.64  | 47.39  | 74.00  | -26.61 | HORIZONTAL | peak   |
| 3 | 4924.000 | 43.29       | 31.62  | 5.60   | 36.45  | 44.06  | 74.00  | -29.94 | HORIZONTAL | peak   |
| 4 | 5179.049 | 49.82       | 31.73  | 5.61   | 36.30  | 50.86  | 74.00  | -23.14 | HORIZONTAL | peak   |
| 5 | 7386.000 | 38.89       | 36.17  | 6.19   | 37.04  | 44.21  | 74.00  | -29.79 | HORIZONTAL | peak   |
| 6 | 9848.000 | 40.53       | 38.58  | 6.99   | 36.82  | 49.28  | 74.00  | -24.72 | HORIZONTAL | peak   |

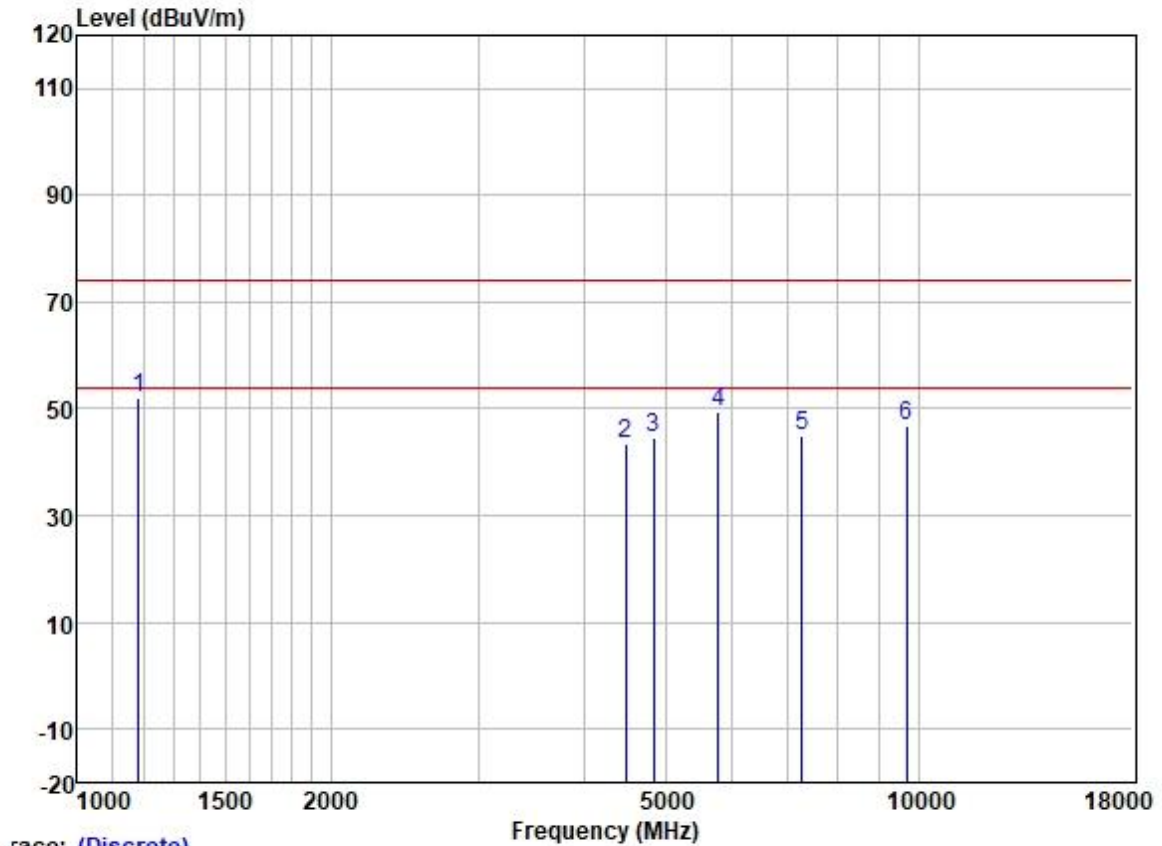
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

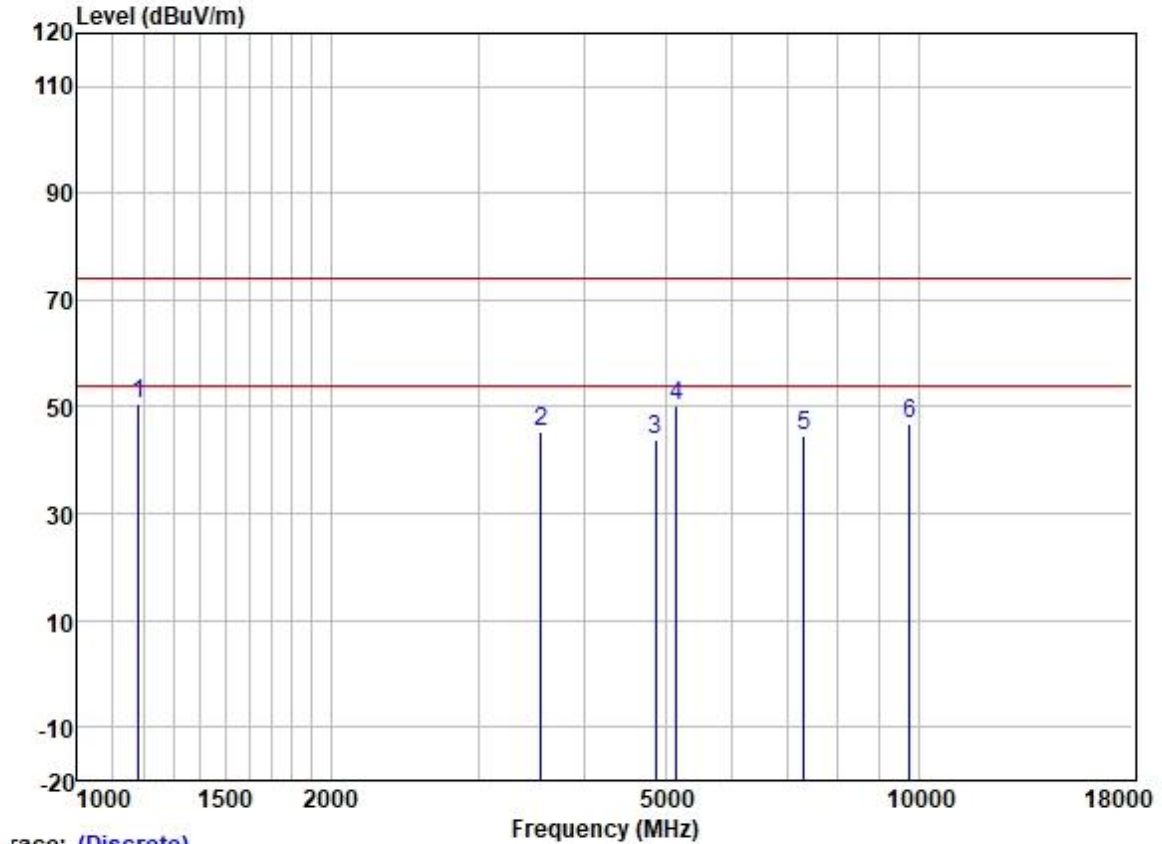
|   | Freq     | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |           |        |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
|   | MHz      | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1182.513 | 57.75       | 24.60  | 2.37   | 38.17  | 46.55  | 74.00  | -27.45 | VERTICAL  | peak   |
| 2 | 3556.843 | 48.51       | 28.98  | 4.44   | 36.77  | 45.16  | 74.00  | -28.84 | VERTICAL  | peak   |
| 3 | 4844.000 | 44.19       | 31.50  | 5.45   | 36.49  | 44.65  | 74.00  | -29.35 | VERTICAL  | peak   |
| 4 | 5179.049 | 48.17       | 31.73  | 5.61   | 36.30  | 49.21  | 74.00  | -24.79 | VERTICAL  | peak   |
| 5 | 7266.000 | 40.69       | 35.78  | 6.06   | 36.98  | 45.55  | 74.00  | -28.45 | VERTICAL  | peak   |
| 6 | 9688.000 | 38.83       | 38.44  | 7.04   | 36.84  | 47.47  | 74.00  | -26.53 | VERTICAL  | peak   |

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



|   | Freq     | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |            |        |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
|   | MHz      | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1182.513 | 63.17       | 24.60  | 2.37   | 38.17  | 51.97  | 74.00  | -22.03 | HORIZONTAL | peak   |
| 2 | 4482.150 | 44.24       | 30.78  | 4.99   | 36.61  | 43.40  | 74.00  | -30.60 | HORIZONTAL | peak   |
| 3 | 4844.000 | 44.22       | 31.50  | 5.45   | 36.49  | 44.68  | 74.00  | -29.32 | HORIZONTAL | peak   |
| 4 | 5780.300 | 47.32       | 32.16  | 6.10   | 36.14  | 49.44  | 74.00  | -24.56 | HORIZONTAL | peak   |
| 5 | 7266.000 | 40.21       | 35.78  | 6.06   | 36.98  | 45.07  | 74.00  | -28.93 | HORIZONTAL | peak   |
| 6 | 9688.000 | 38.25       | 38.44  | 7.04   | 36.84  | 46.89  | 74.00  | -27.11 | HORIZONTAL | peak   |

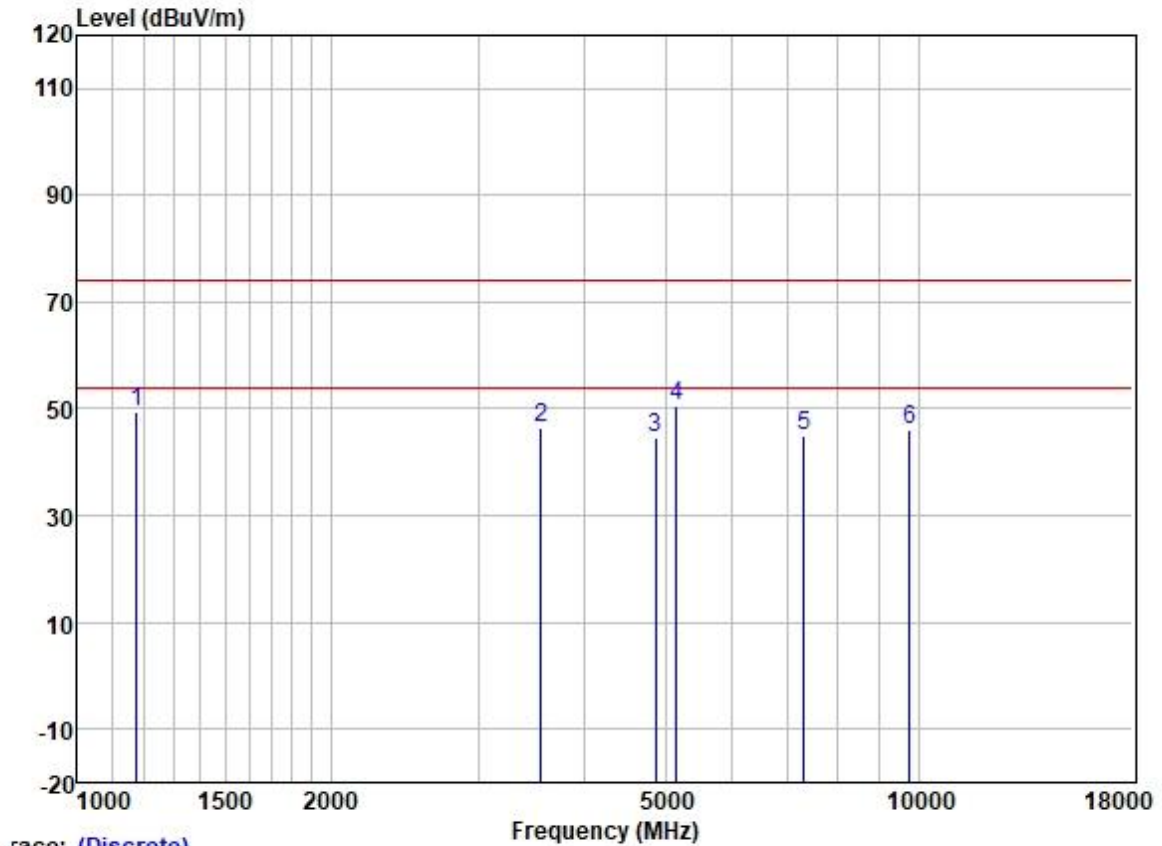
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Trace: (Discrete)

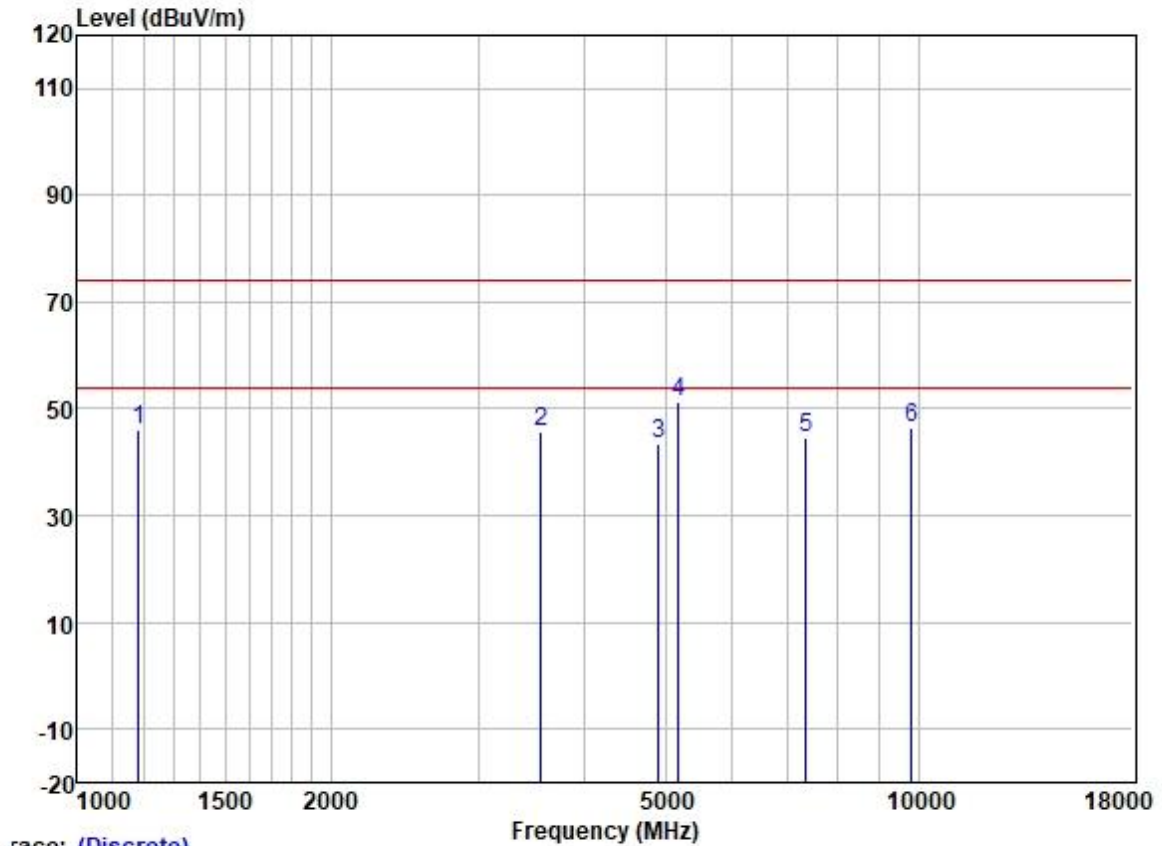
|   | Freq     | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |           |        |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
|   | MHz      | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1182.513 | 61.71       | 24.60  | 2.37   | 38.17  | 50.51  | 74.00  | -23.49 | VERTICAL  | peak   |
| 2 | 3556.843 | 48.75       | 28.98  | 4.44   | 36.77  | 45.40  | 74.00  | -28.60 | VERTICAL  | peak   |
| 3 | 4874.000 | 43.10       | 31.54  | 5.50   | 36.48  | 43.66  | 74.00  | -30.34 | VERTICAL  | peak   |
| 4 | 5149.197 | 49.28       | 31.72  | 5.62   | 36.31  | 50.31  | 74.00  | -23.69 | VERTICAL  | peak   |
| 5 | 7311.000 | 39.49       | 35.93  | 6.11   | 36.99  | 44.54  | 74.00  | -29.46 | VERTICAL  | peak   |
| 6 | 9748.000 | 38.13       | 38.50  | 7.02   | 36.83  | 46.82  | 74.00  | -27.18 | VERTICAL  | peak   |

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



|   | Freq     | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |            |        |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
|   | MHz      | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1175.697 | 60.83       | 24.58  | 2.38   | 38.17  | 49.62  | 74.00  | -24.38 | HORIZONTAL | peak   |
| 2 | 3556.843 | 49.86       | 28.98  | 4.44   | 36.77  | 46.51  | 74.00  | -27.49 | HORIZONTAL | peak   |
| 3 | 4874.000 | 43.94       | 31.54  | 5.50   | 36.48  | 44.50  | 74.00  | -29.50 | HORIZONTAL | peak   |
| 4 | 5149.197 | 49.43       | 31.72  | 5.62   | 36.31  | 50.46  | 74.00  | -23.54 | HORIZONTAL | peak   |
| 5 | 7311.000 | 40.03       | 35.93  | 6.11   | 36.99  | 45.08  | 74.00  | -28.92 | HORIZONTAL | peak   |
| 6 | 9748.000 | 37.51       | 38.50  | 7.02   | 36.83  | 46.20  | 74.00  | -27.80 | HORIZONTAL | peak   |

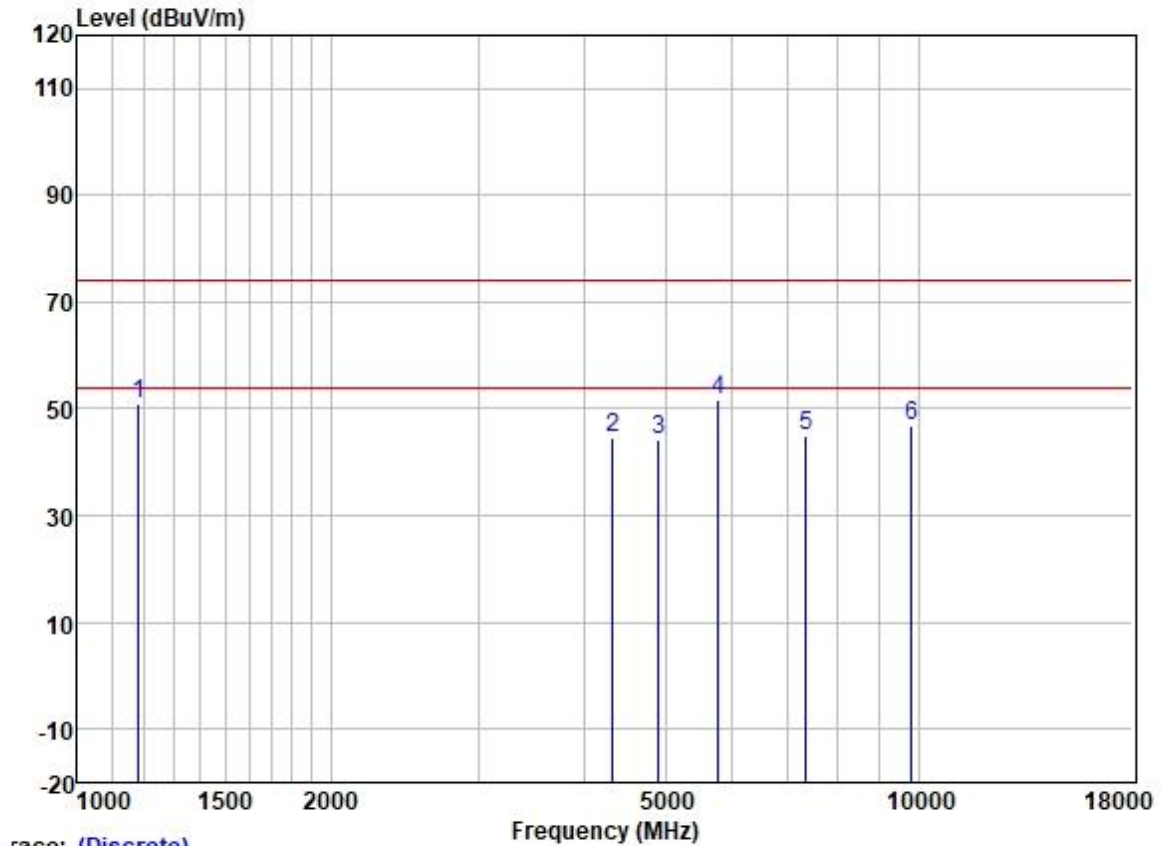
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

|   | Freq     | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |           |        |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
|   | MHz      | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 1182.513 | 57.27       | 24.60  | 2.37   | 38.17  | 46.07  | 74.00  | -27.93 | VERTICAL  | peak   |
| 2 | 3556.843 | 48.91       | 28.98  | 4.44   | 36.77  | 45.56  | 74.00  | -28.44 | VERTICAL  | peak   |
| 3 | 4904.000 | 42.87       | 31.58  | 5.55   | 36.46  | 43.54  | 74.00  | -30.46 | VERTICAL  | peak   |
| 4 | 5179.049 | 50.12       | 31.73  | 5.61   | 36.30  | 51.16  | 74.00  | -22.84 | VERTICAL  | peak   |
| 5 | 7356.000 | 39.24       | 36.06  | 6.15   | 37.03  | 44.42  | 74.00  | -29.58 | VERTICAL  | peak   |
| 6 | 9808.000 | 37.81       | 38.56  | 7.00   | 36.83  | 46.54  | 74.00  | -27.46 | VERTICAL  | peak   |

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

|   | Freq     | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |            |        |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
|   | MHz      | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 1182.513 | 62.14       | 24.60  | 2.37   | 38.17  | 50.94  | 74.00  | -23.06 | HORIZONTAL | peak   |
| 2 | 4329.354 | 46.08       | 30.54  | 4.67   | 36.64  | 44.65  | 74.00  | -29.35 | HORIZONTAL | peak   |
| 3 | 4904.000 | 43.58       | 31.58  | 5.55   | 36.46  | 44.25  | 74.00  | -29.75 | HORIZONTAL | peak   |
| 4 | 5780.300 | 49.39       | 32.16  | 6.10   | 36.14  | 51.51  | 74.00  | -22.49 | HORIZONTAL | peak   |
| 5 | 7356.000 | 39.61       | 36.06  | 6.15   | 37.03  | 44.79  | 74.00  | -29.21 | HORIZONTAL | peak   |
| 6 | 9808.000 | 37.92       | 38.56  | 7.00   | 36.83  | 46.65  | 74.00  | -27.35 | HORIZONTAL | peak   |

## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR220500060303



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## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2205000603HS

## 10 Appendix

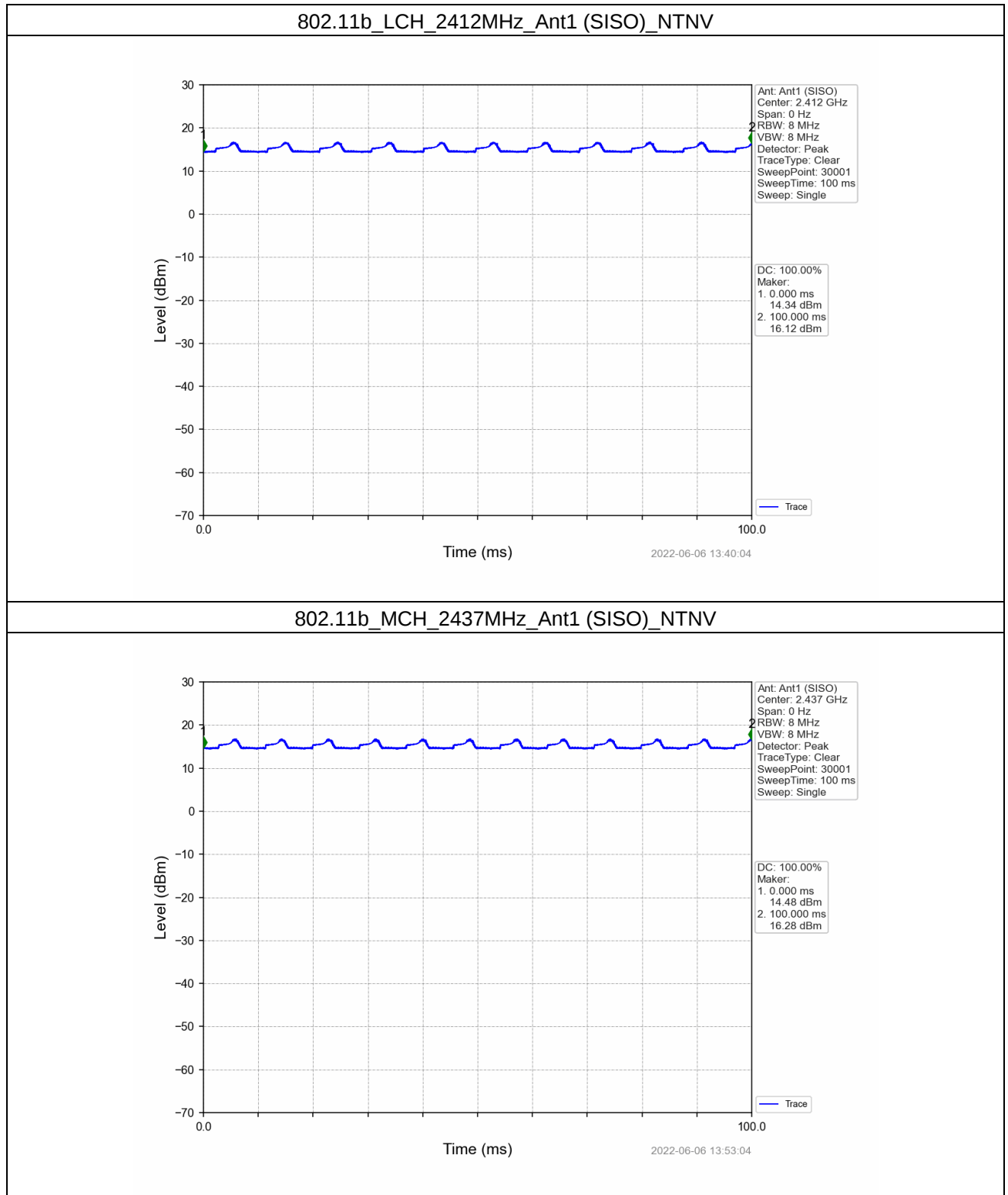
### 1. Duty Cycle

#### 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            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 802.11g        | SISO    | 2412            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 802.11n (HT20) | SISO    | 2412            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 802.11n (HT40) | SISO    | 2422            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2452            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |

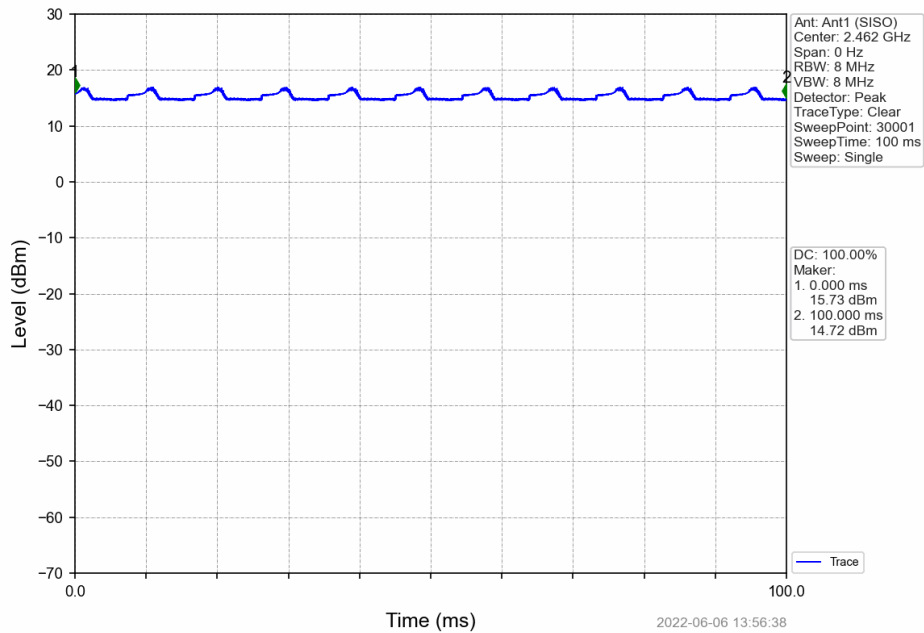
### 1.1.2 Test Graph



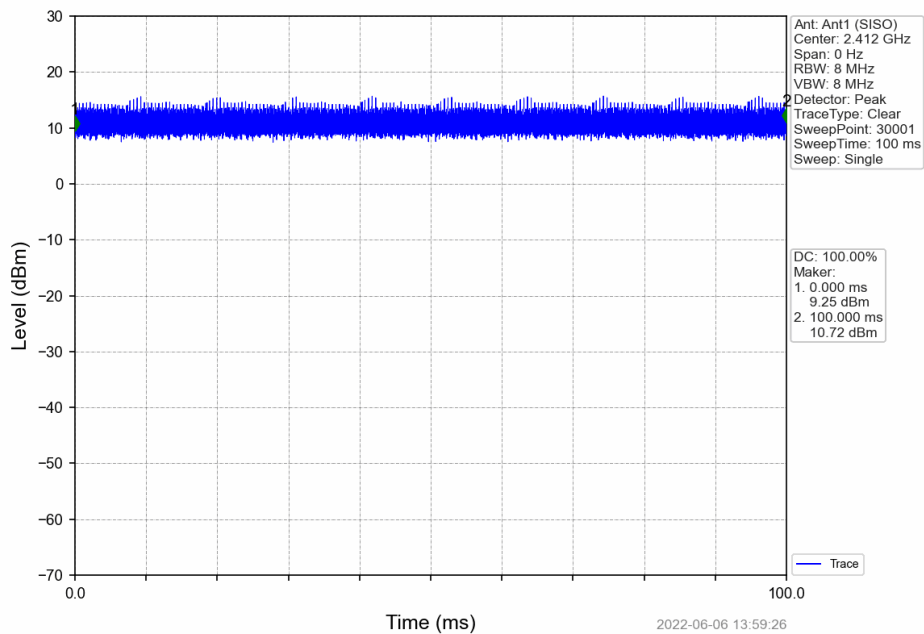
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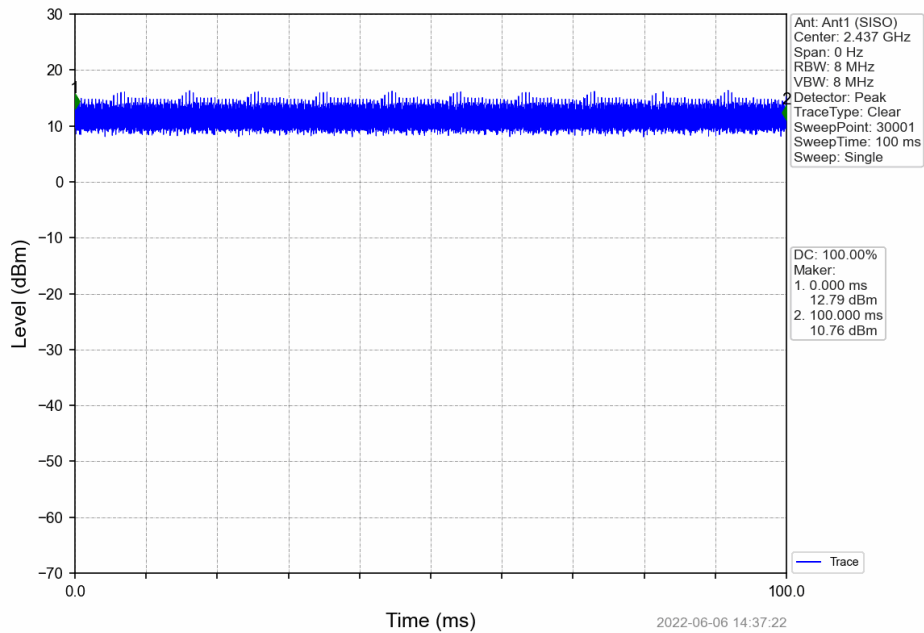
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



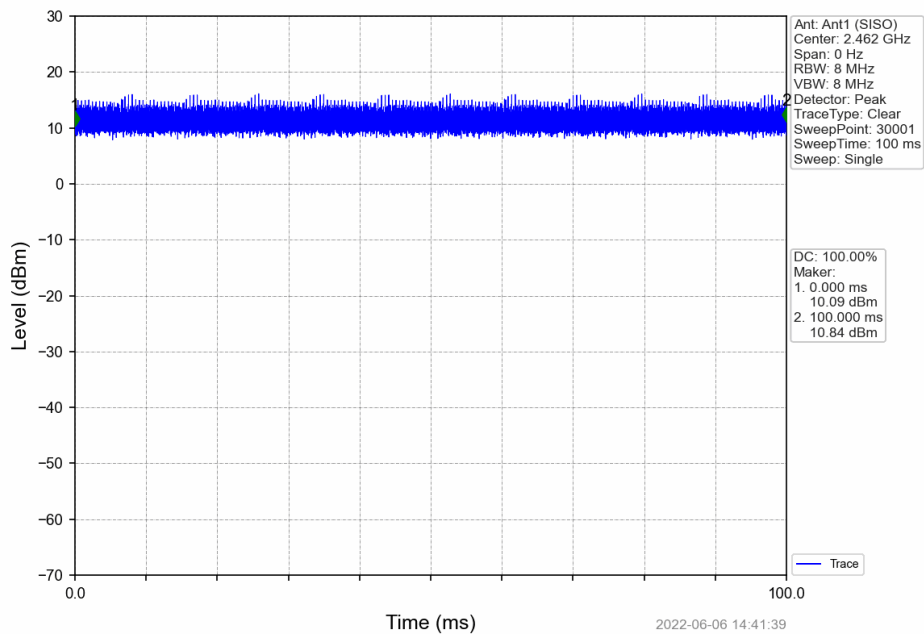
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



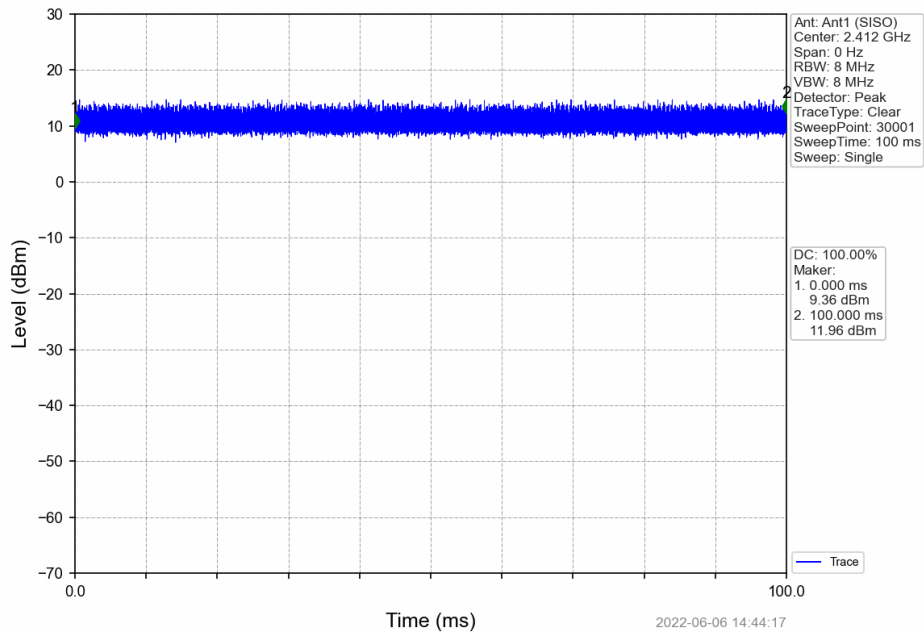
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



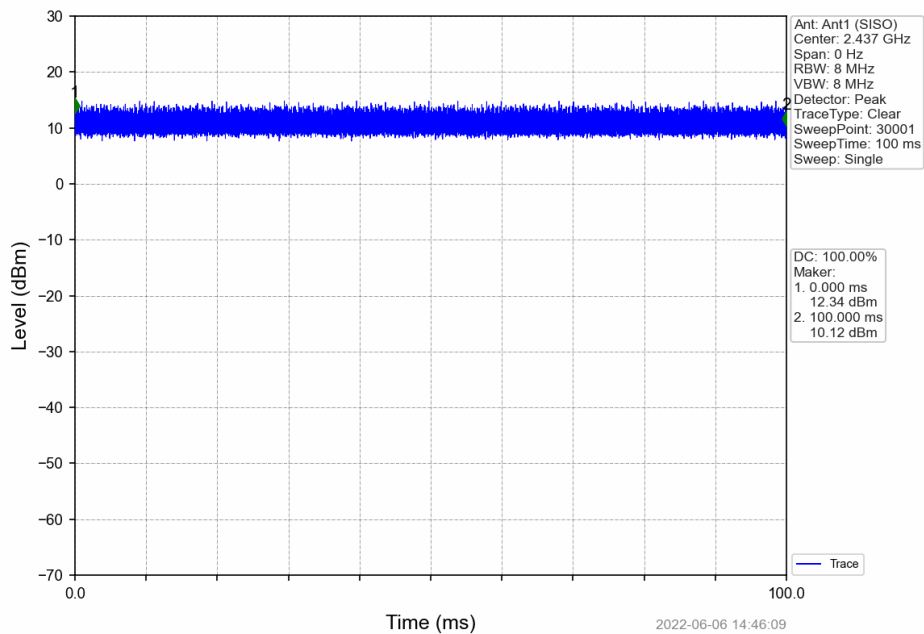
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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

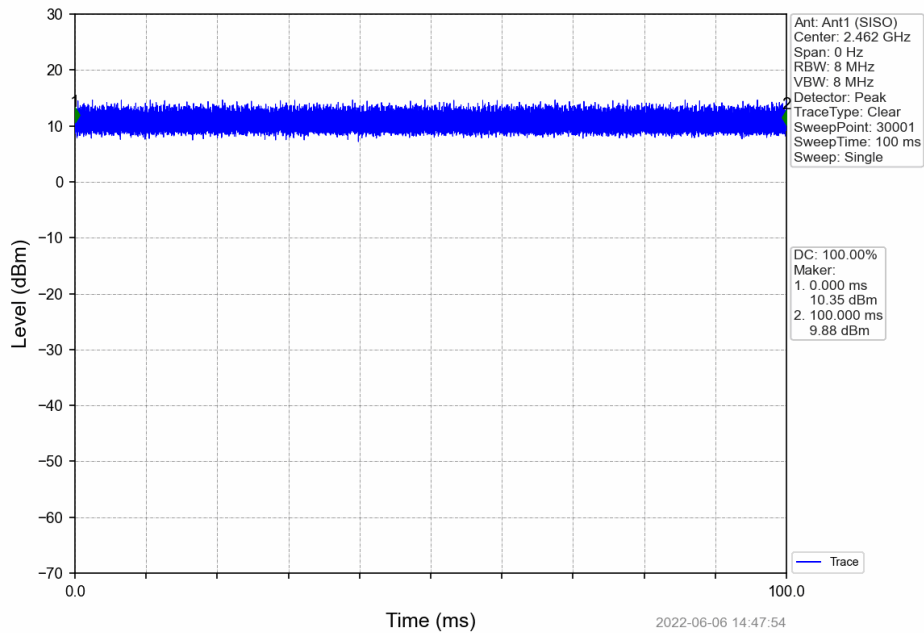


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

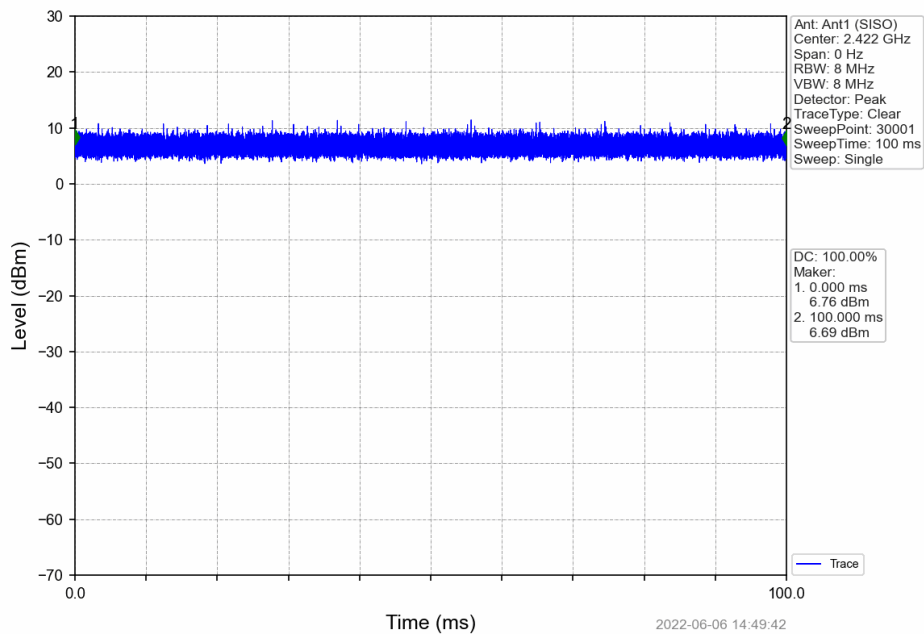


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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

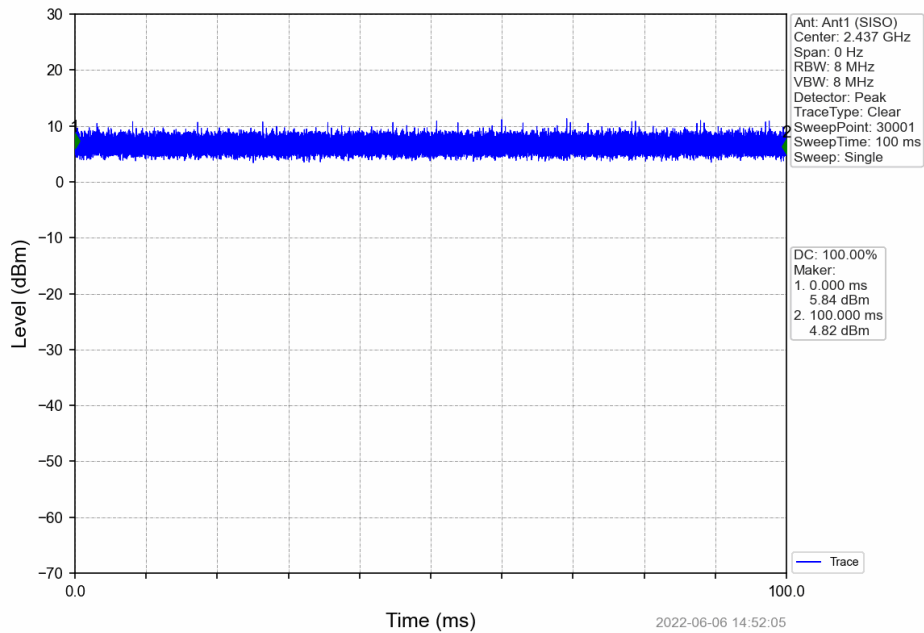


802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

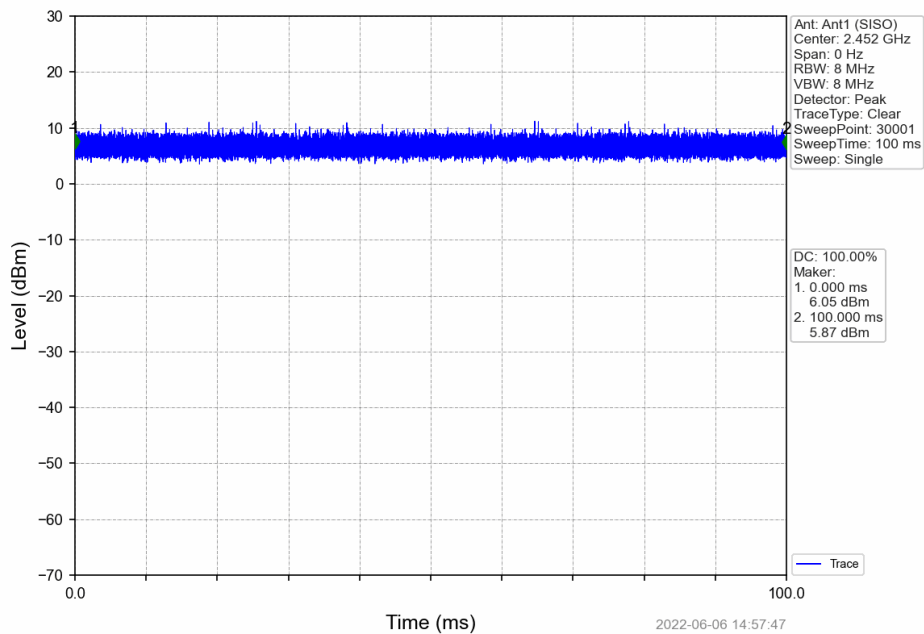


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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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## 2. Bandwidth

### 2.1 6dB BW

#### 2.1.1 Test Result

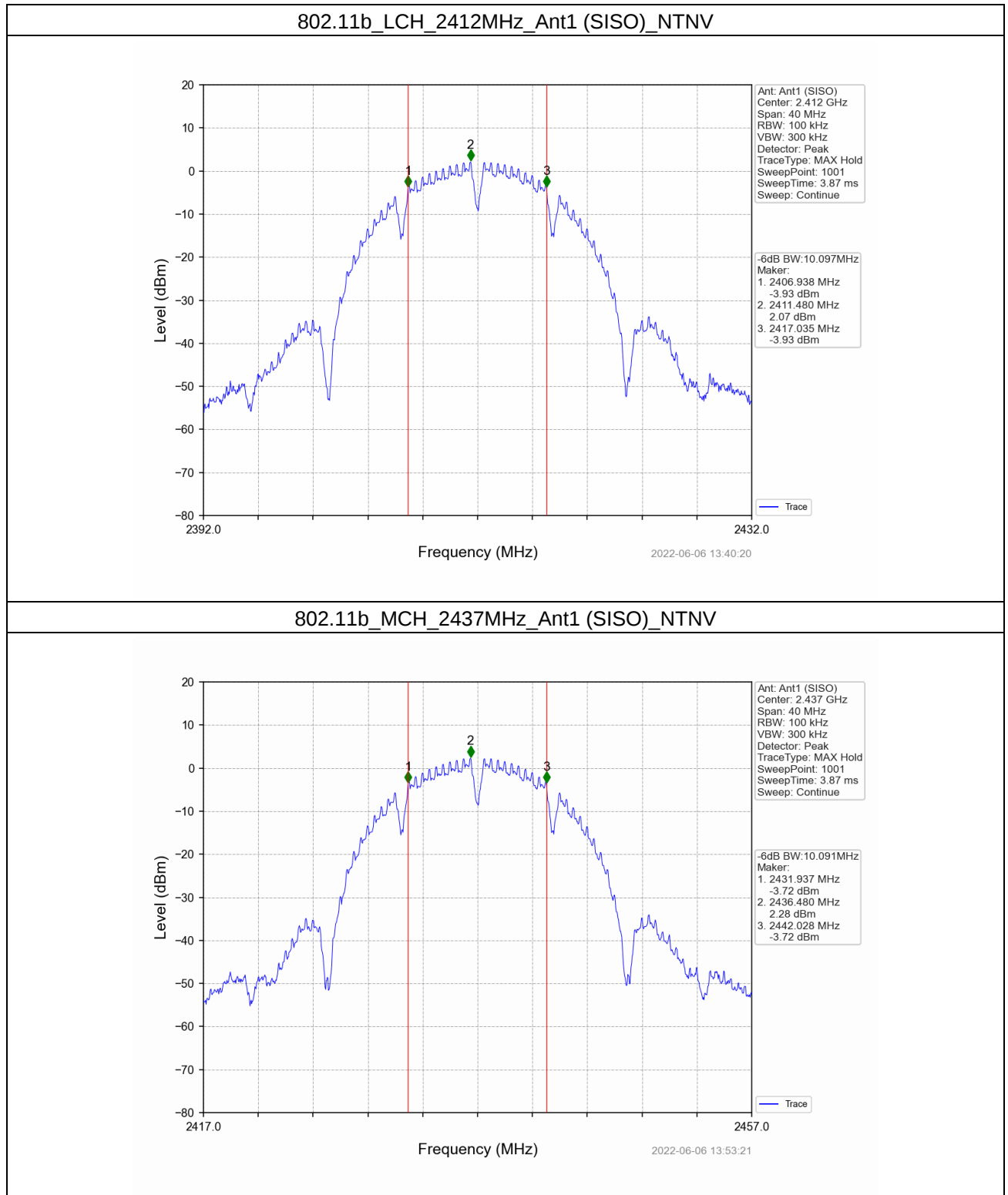
| Mode           | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
|                |         |                 |     | Result              | Limit      |         |
| 802.11b        | SISO    | 2412            | 1   | 10.097              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 10.091              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 10.091              | $\geq 0.5$ | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 16.607              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 16.619              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 16.613              | $\geq 0.5$ | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 17.849              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 17.850              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 17.846              | $\geq 0.5$ | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 36.472              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 36.473              | $\geq 0.5$ | Pass    |
|                |         | 2452            | 1   | 36.468              | $\geq 0.5$ | Pass    |



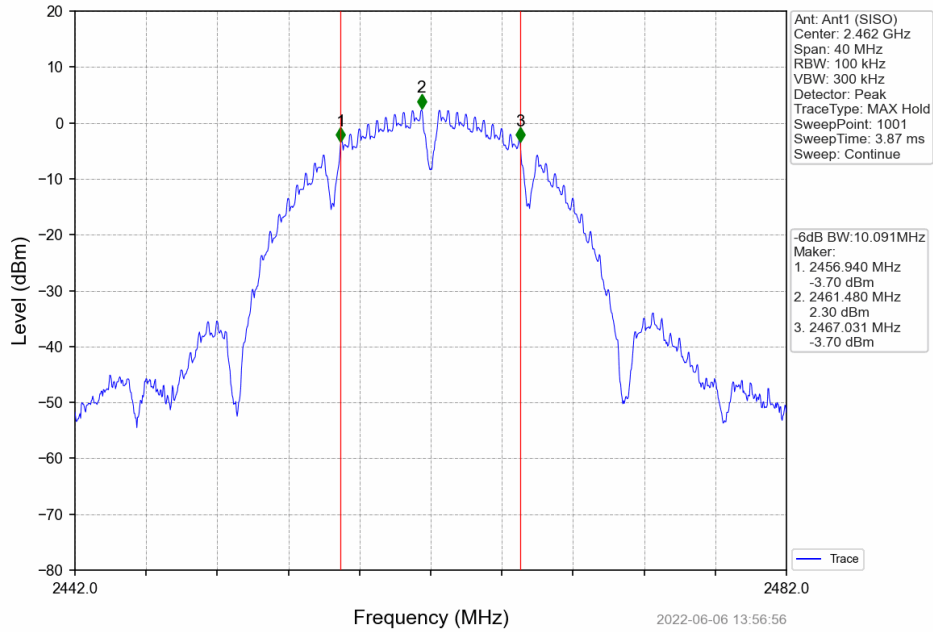
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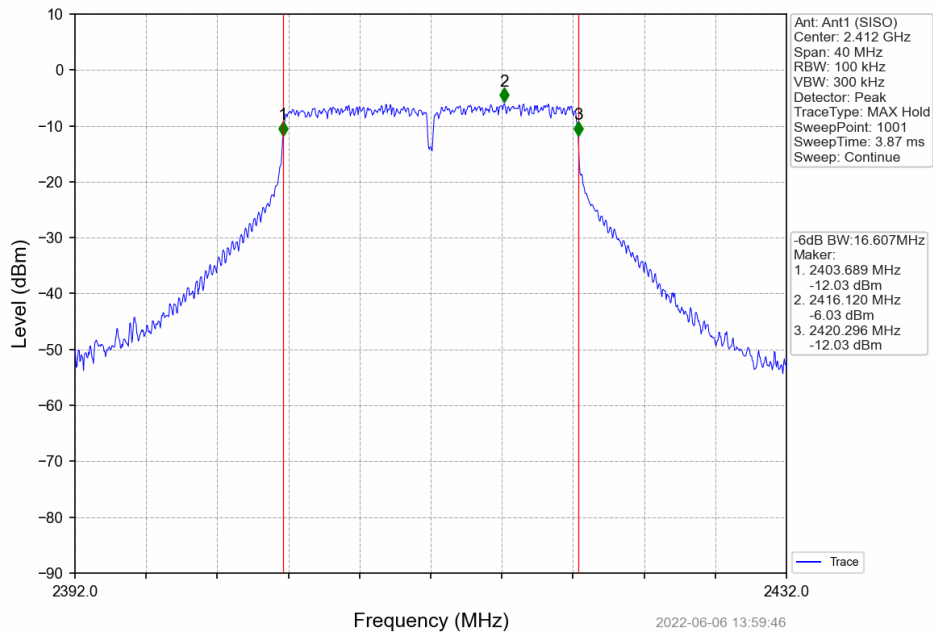
### 2.1.2 Test Graph



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

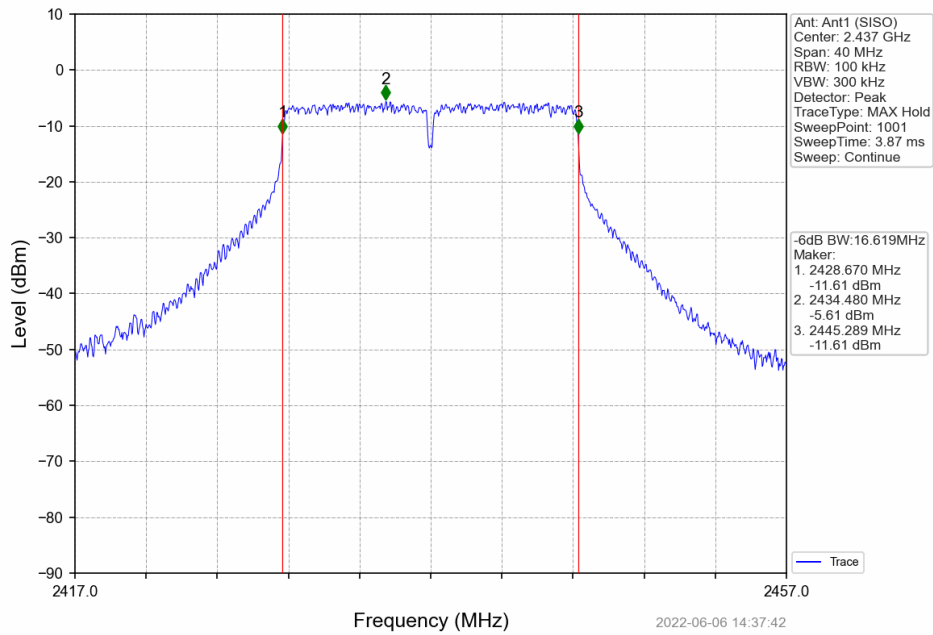


### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

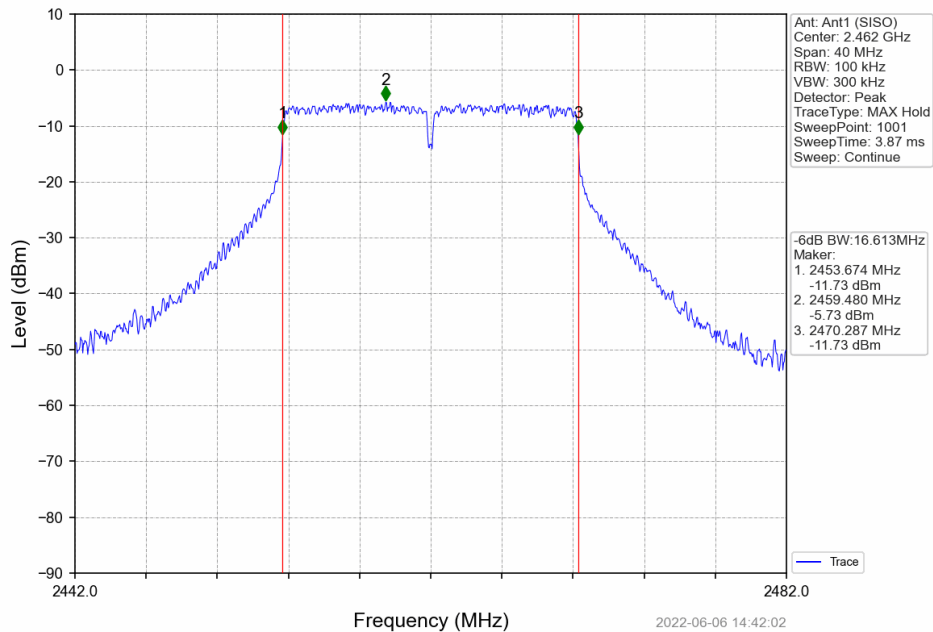


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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

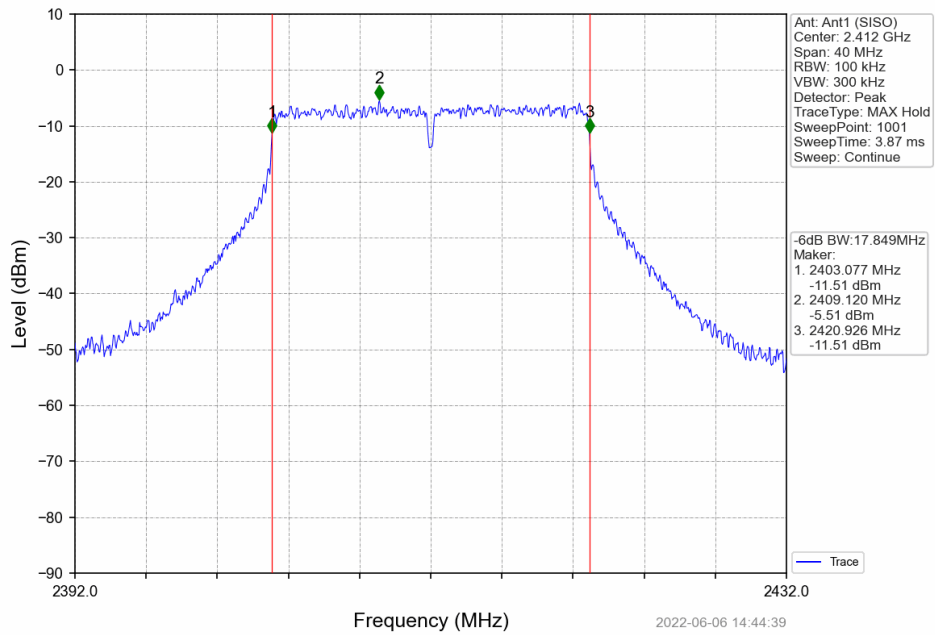


### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

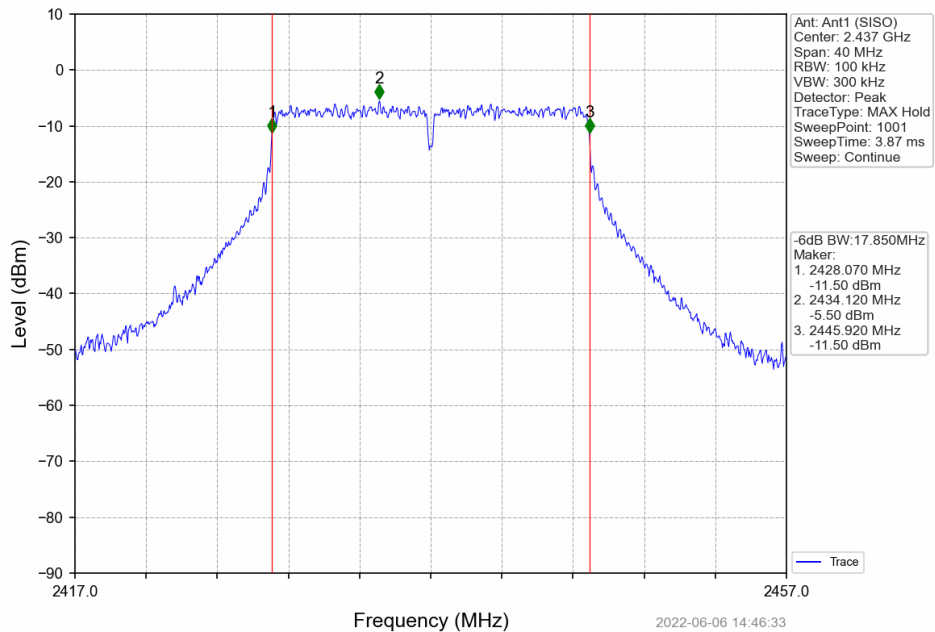


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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

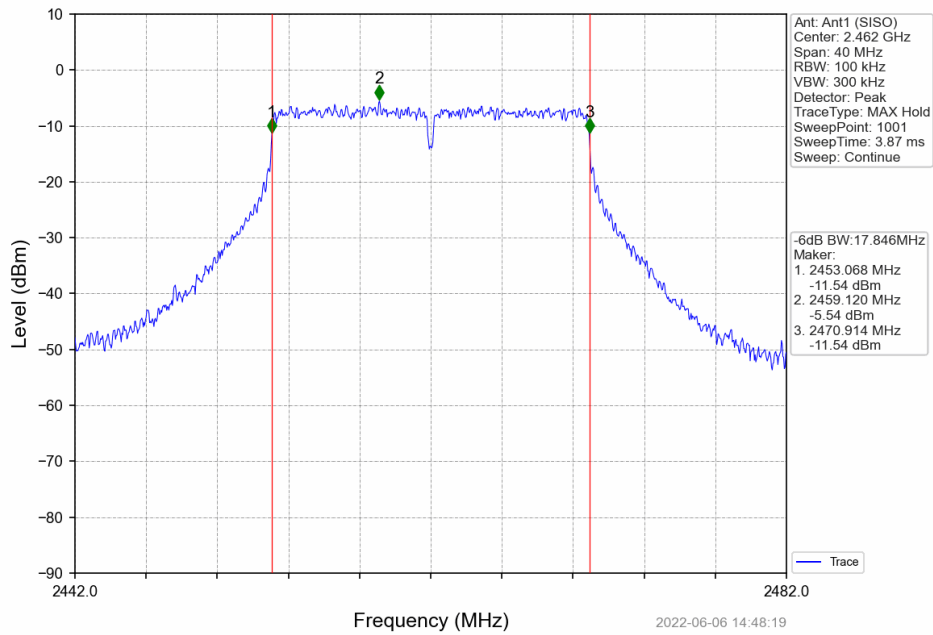


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

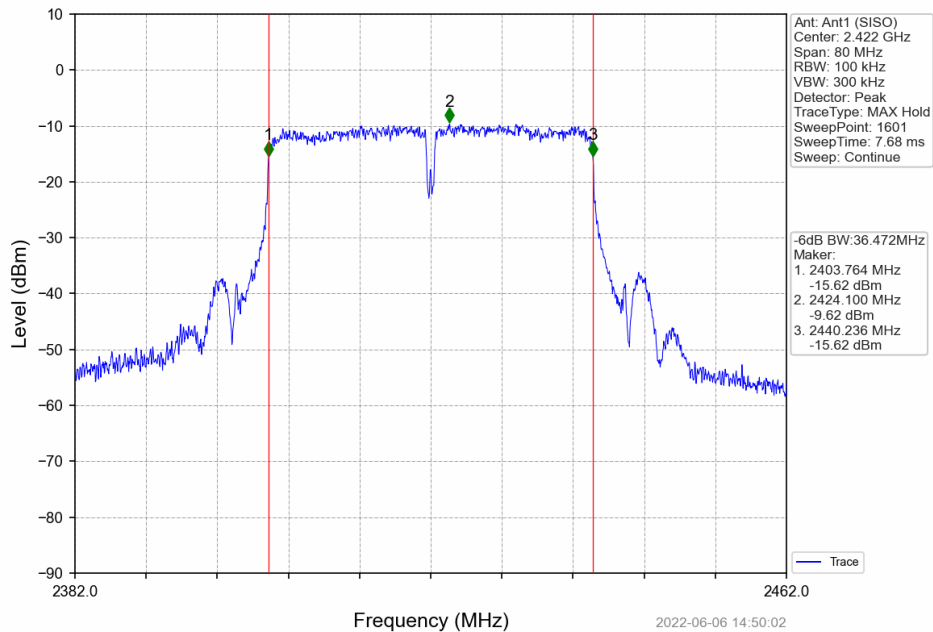


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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

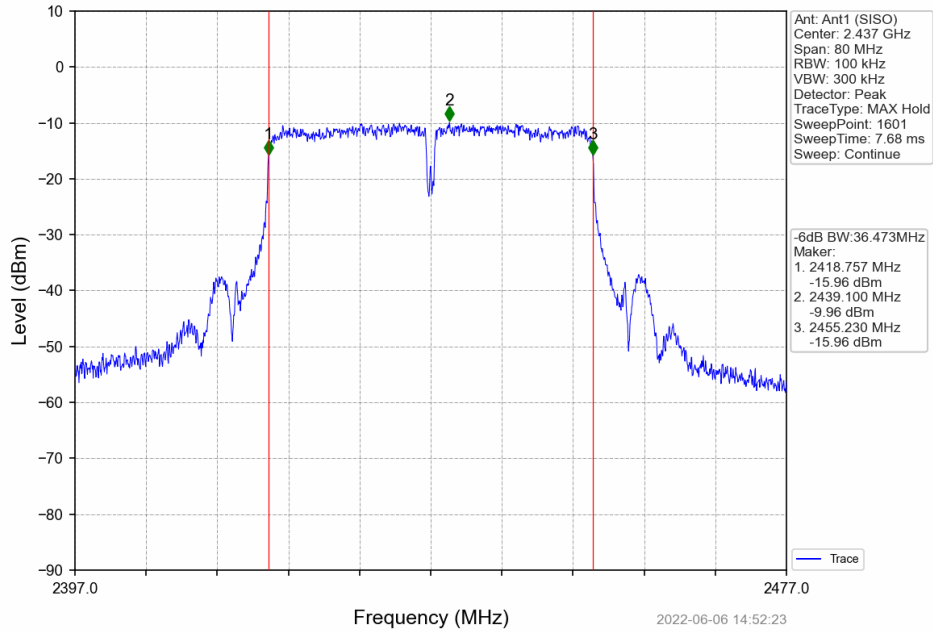


802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

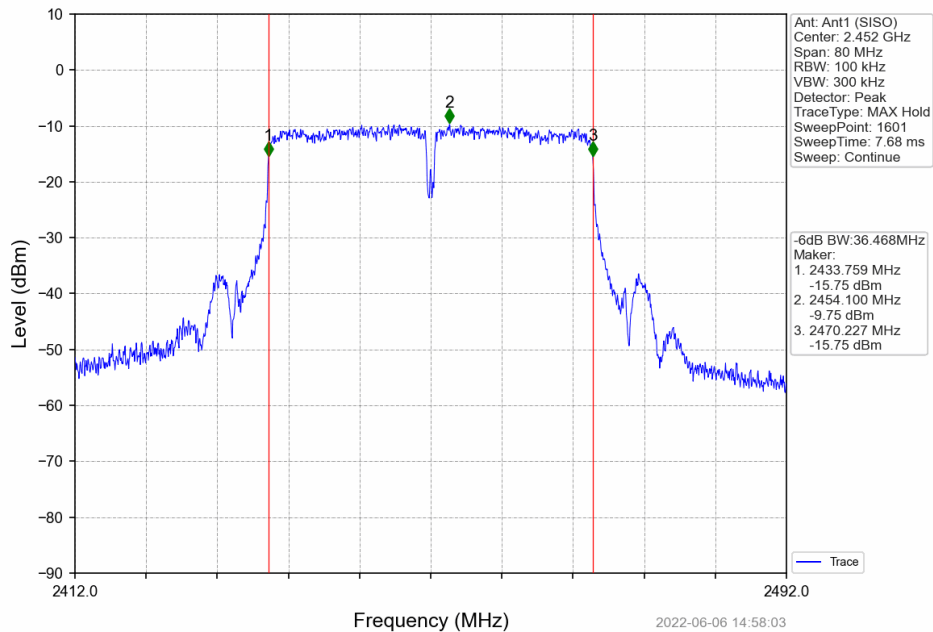


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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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            | 14.32                                     | $\leq -30$ | Pass    |
|                |         | 2437            | 14.52                                     | $\leq -30$ | Pass    |
|                |         | 2462            | 14.56                                     | $\leq -30$ | Pass    |
| 802.11g        | SISO    | 2412            | 15.80                                     | $\leq -30$ | Pass    |
|                |         | 2437            | 16.18                                     | $\leq -30$ | Pass    |
|                |         | 2462            | 16.03                                     | $\leq -30$ | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 16.05                                     | $\leq -30$ | Pass    |
|                |         | 2437            | 16.05                                     | $\leq -30$ | Pass    |
|                |         | 2462            | 15.89                                     | $\leq -30$ | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 15.26                                     | $\leq -30$ | Pass    |
|                |         | 2437            | 14.96                                     | $\leq -30$ | Pass    |
|                |         | 2452            | 15.14                                     | $\leq -30$ | Pass    |

Note1: Antenna Gain: Ant1: 2.64dBi;

### 4. Maximum Power Spectral Density

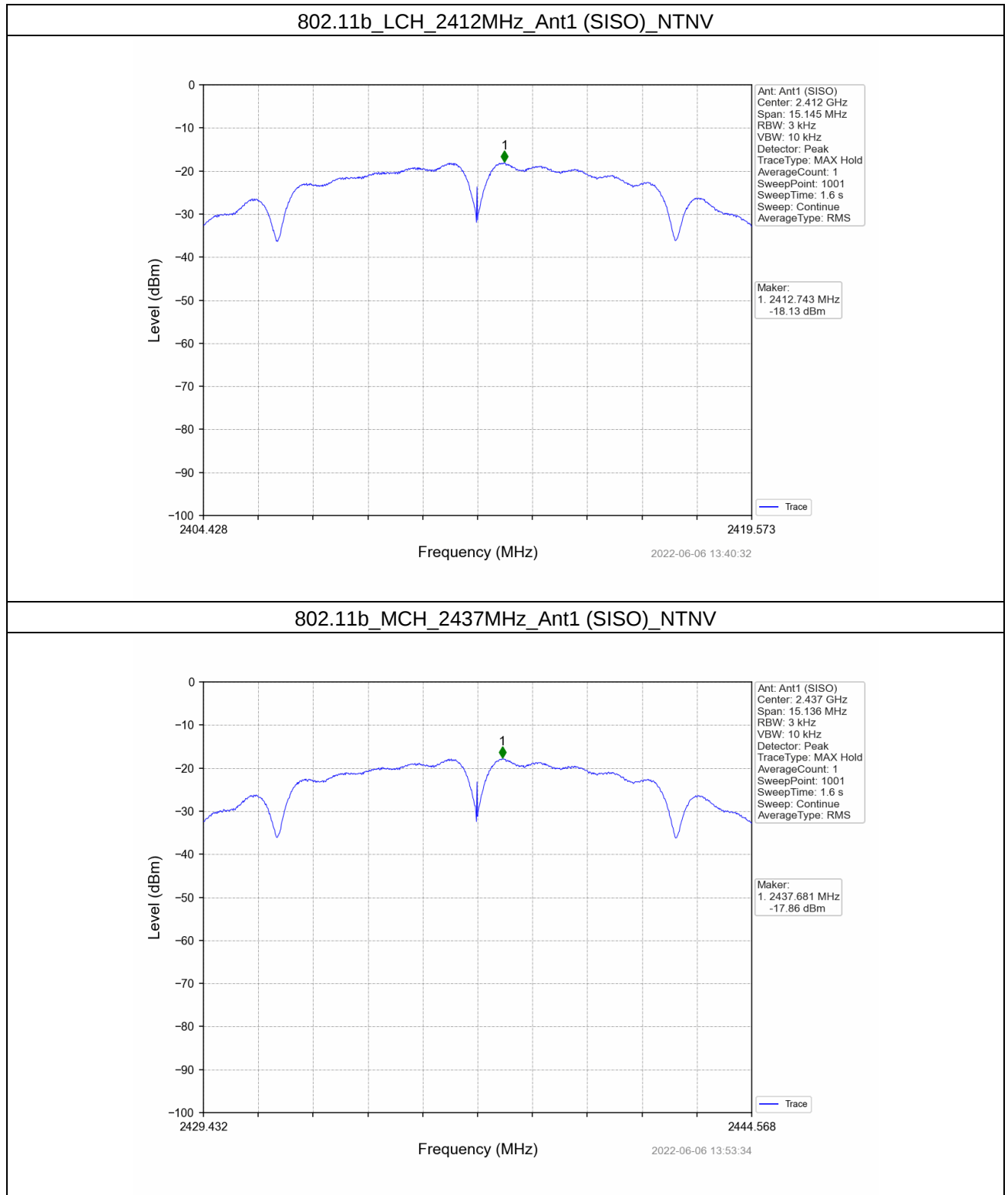
#### 4.1 PSD

##### 4.1.1 Test Result

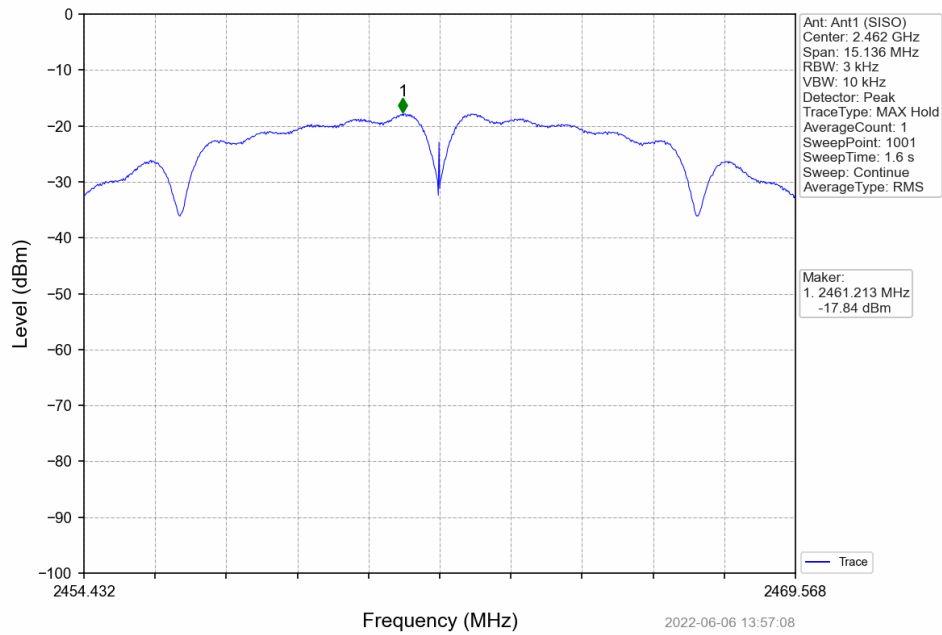
| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |           | Verdict |
|----------------|---------|-----------------|------------------------|-----------|---------|
|                |         |                 | ANT1                   | Limit     |         |
| 802.11b        | SISO    | 2412            | -18.13                 | $\leq -8$ | Pass    |
|                |         | 2437            | -17.86                 | $\leq -8$ | Pass    |
|                |         | 2462            | -17.84                 | $\leq -8$ | Pass    |
| 802.11g        | SISO    | 2412            | -20.14                 | $\leq -8$ | Pass    |
|                |         | 2437            | -19.96                 | $\leq -8$ | Pass    |
|                |         | 2462            | -20.06                 | $\leq -8$ | Pass    |
| 802.11n (HT20) | SISO    | 2412            | -19.98                 | $\leq -8$ | Pass    |
|                |         | 2437            | -19.50                 | $\leq -8$ | Pass    |
|                |         | 2462            | -20.24                 | $\leq -8$ | Pass    |
| 802.11n (HT40) | SISO    | 2422            | -21.79                 | $\leq -8$ | Pass    |
|                |         | 2437            | -21.03                 | $\leq -8$ | Pass    |
|                |         | 2452            | -21.15                 | $\leq -8$ | Pass    |

Note1: Antenna Gain: Ant1: 2.64dBi;

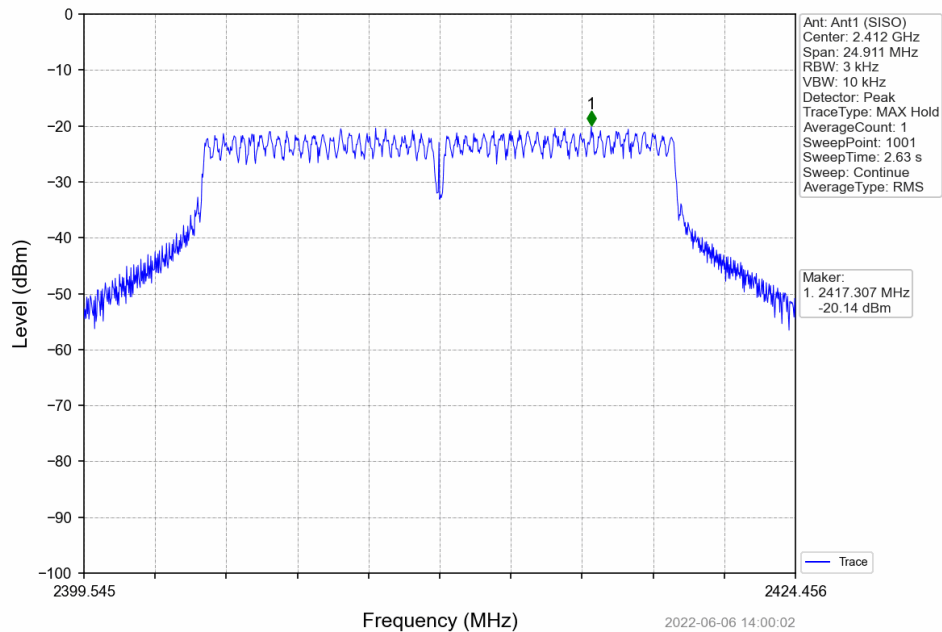
### 4.1.2 Test Graph



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



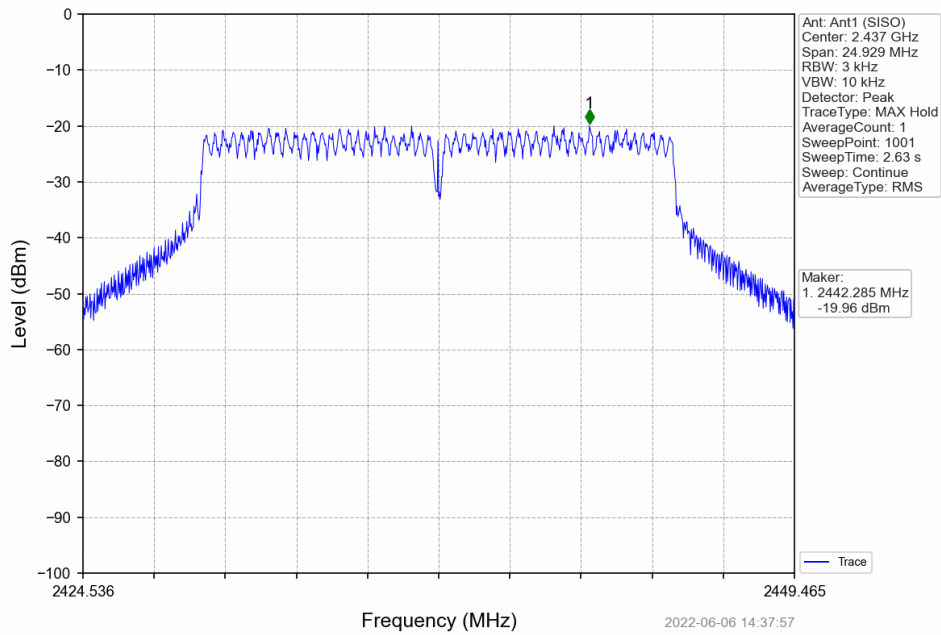
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



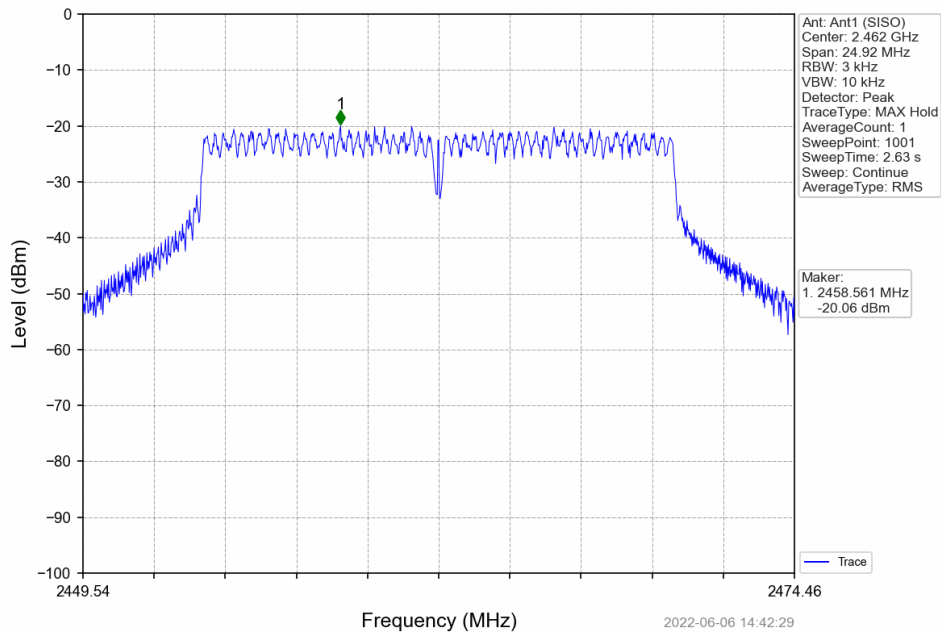
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

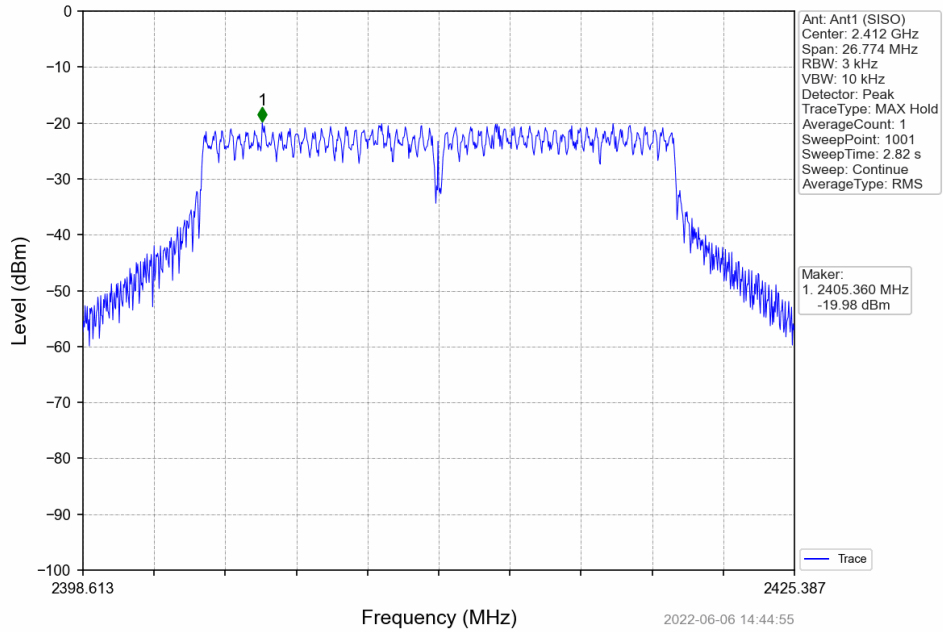


802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

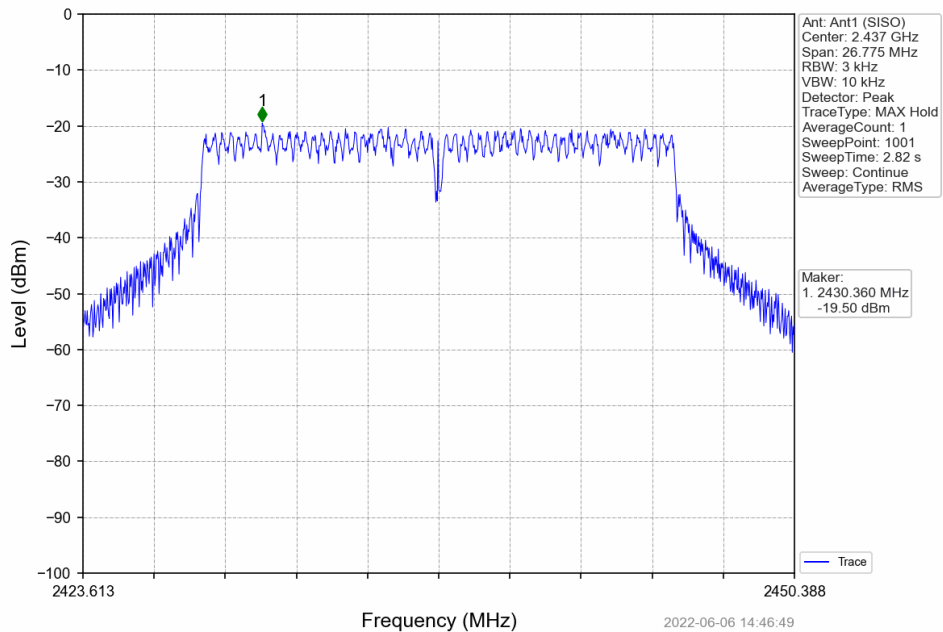


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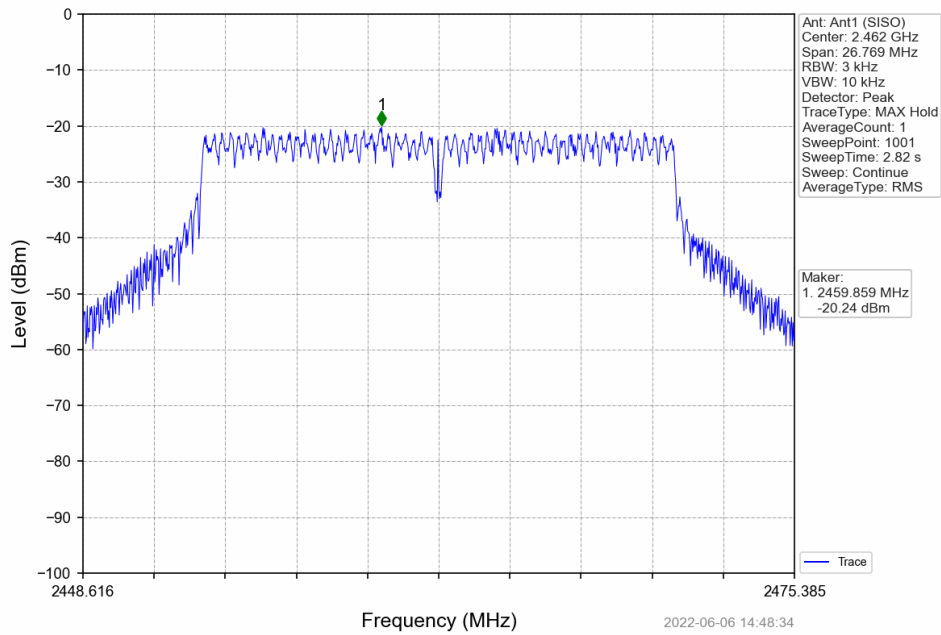
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



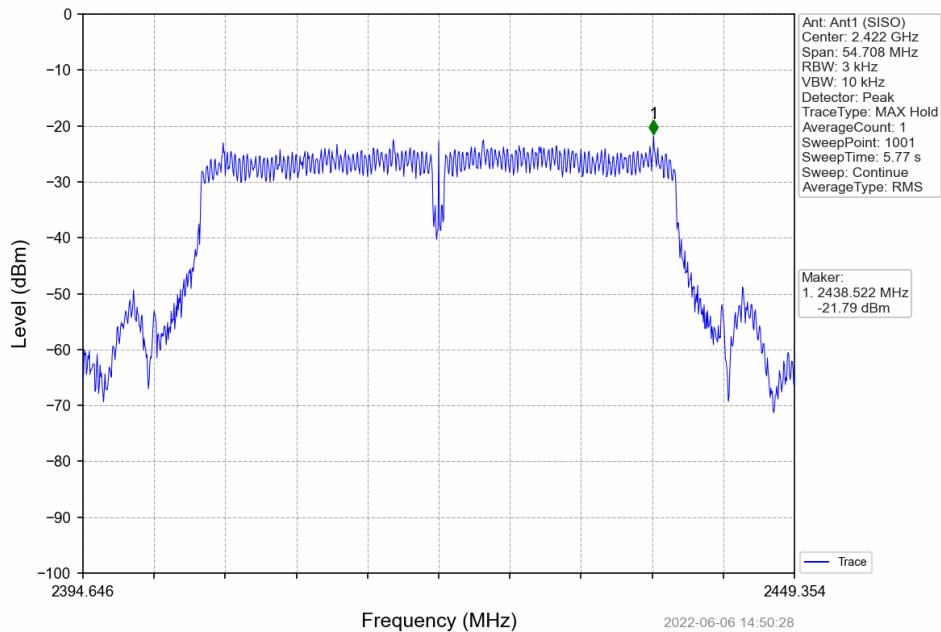
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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

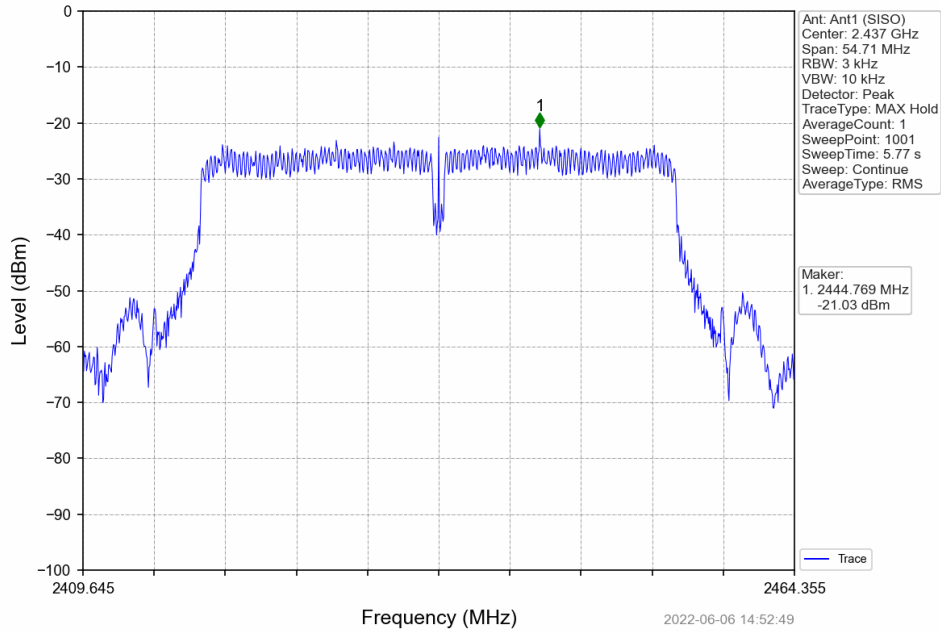


802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

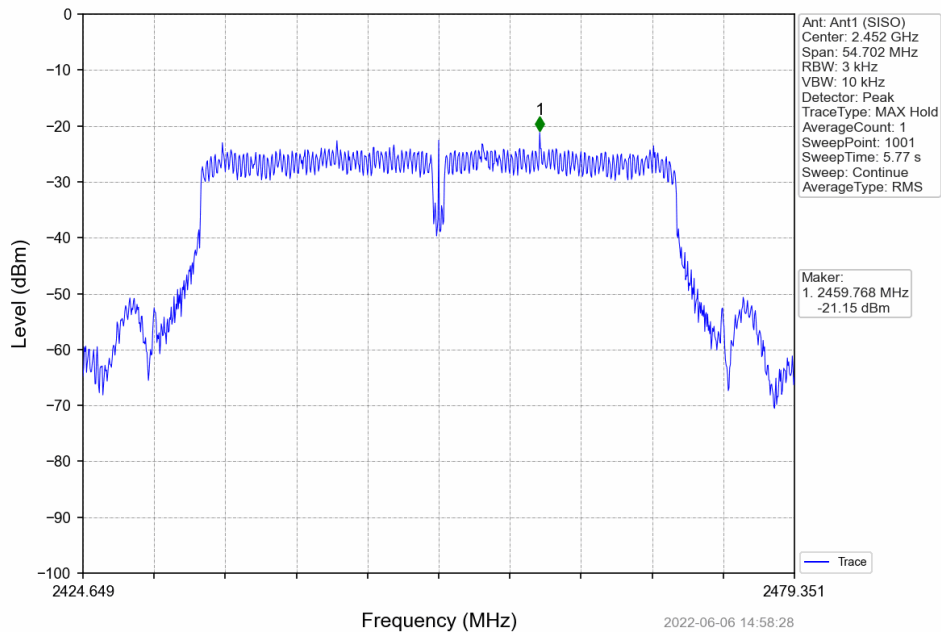


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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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

## 5.1 Ref

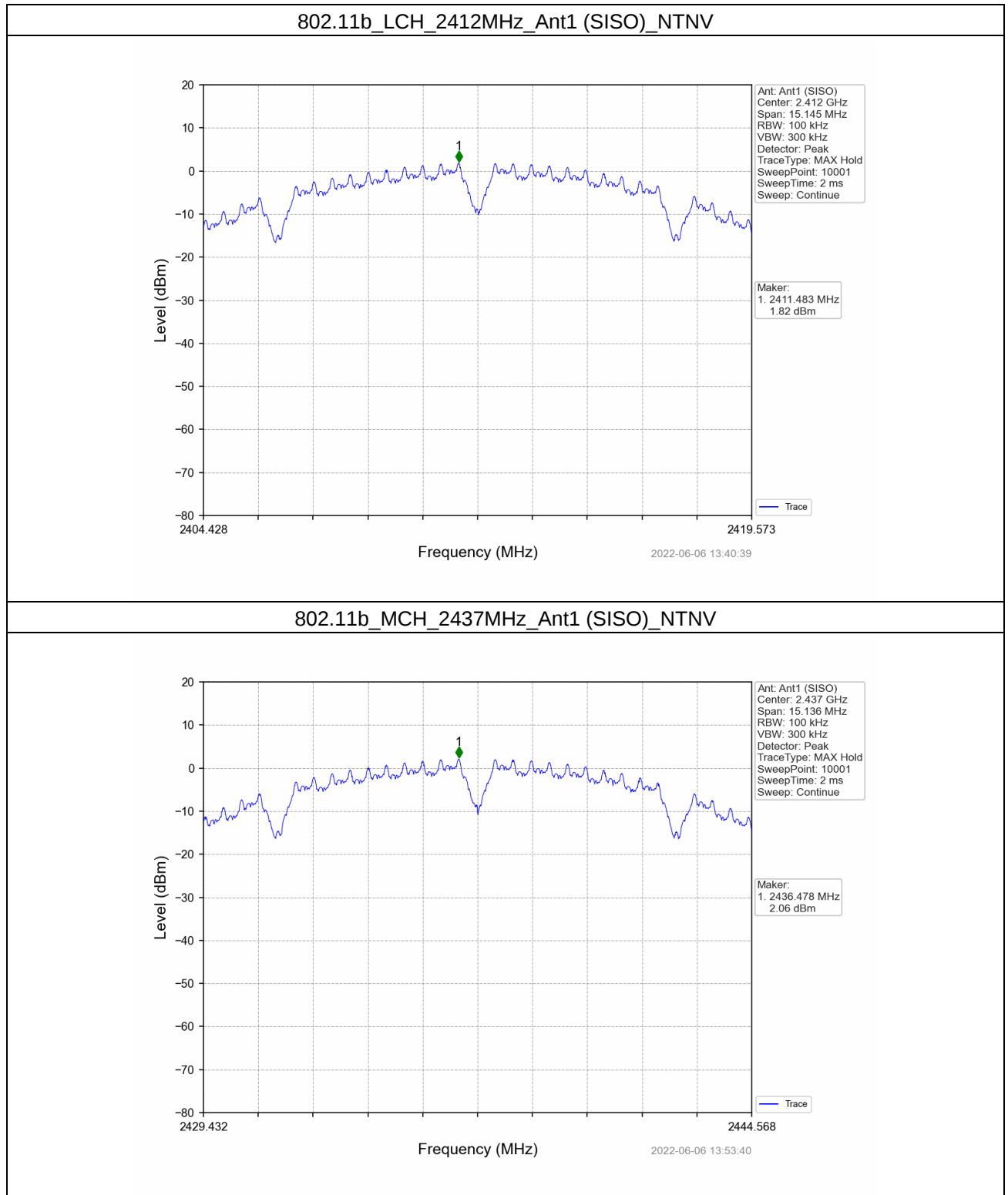
## 5.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b        | SISO    | 2412            | 1   | 1.82                     |
|                |         | 2437            | 1   | 2.06                     |
|                |         | 2462            | 1   | 2.05                     |
| 802.11g        | SISO    | 2412            | 1   | -6.09                    |
|                |         | 2437            | 1   | -5.73                    |
|                |         | 2462            | 1   | -5.91                    |
| 802.11n (HT20) | SISO    | 2412            | 1   | -5.97                    |
|                |         | 2437            | 1   | -5.49                    |
|                |         | 2462            | 1   | -5.71                    |
| 802.11n (HT40) | SISO    | 2422            | 1   | -9.64                    |
|                |         | 2437            | 1   | -10.08                   |
|                |         | 2452            | 1   | -9.87                    |

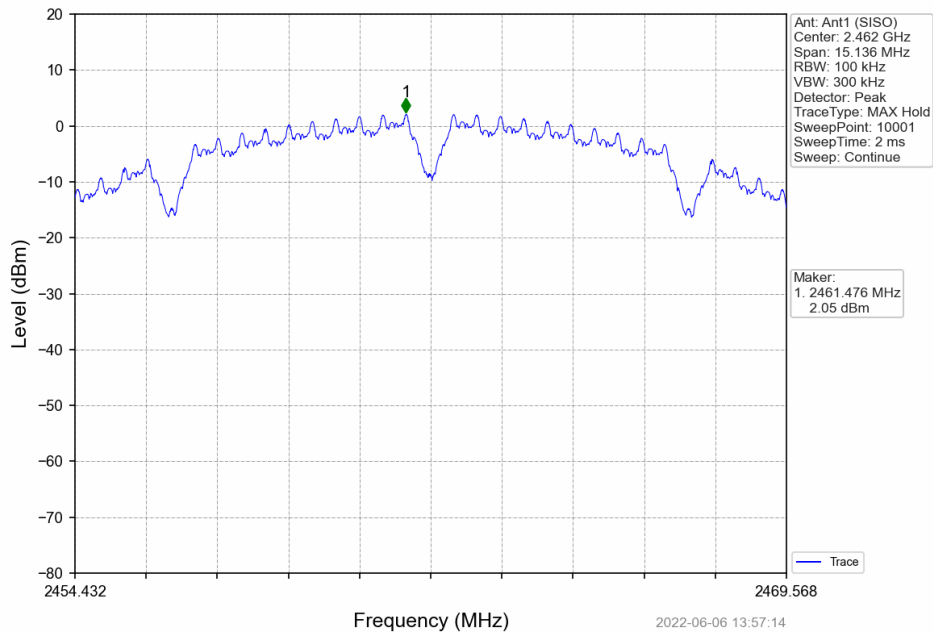
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

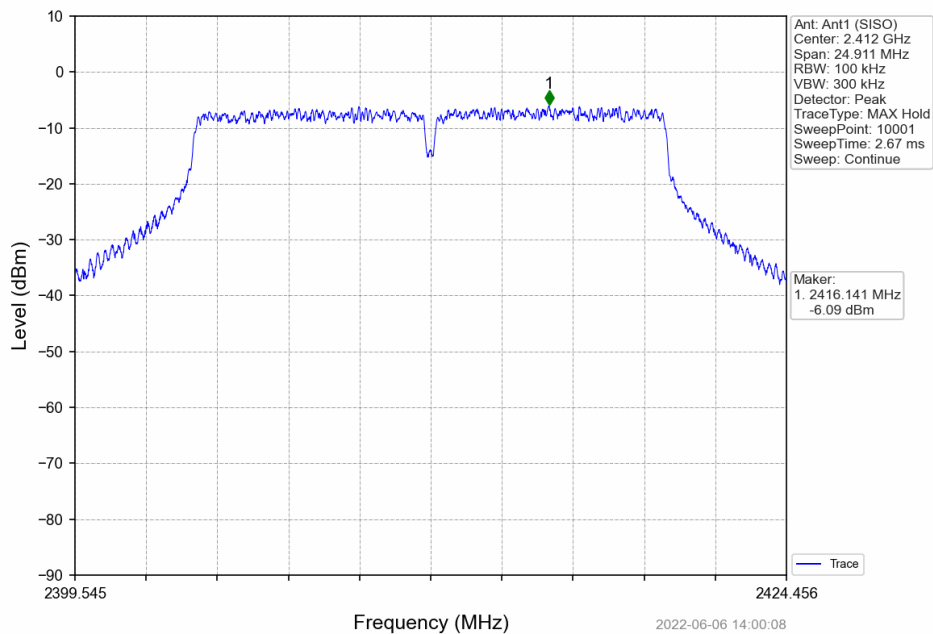
### 5.1.2 Test Graph



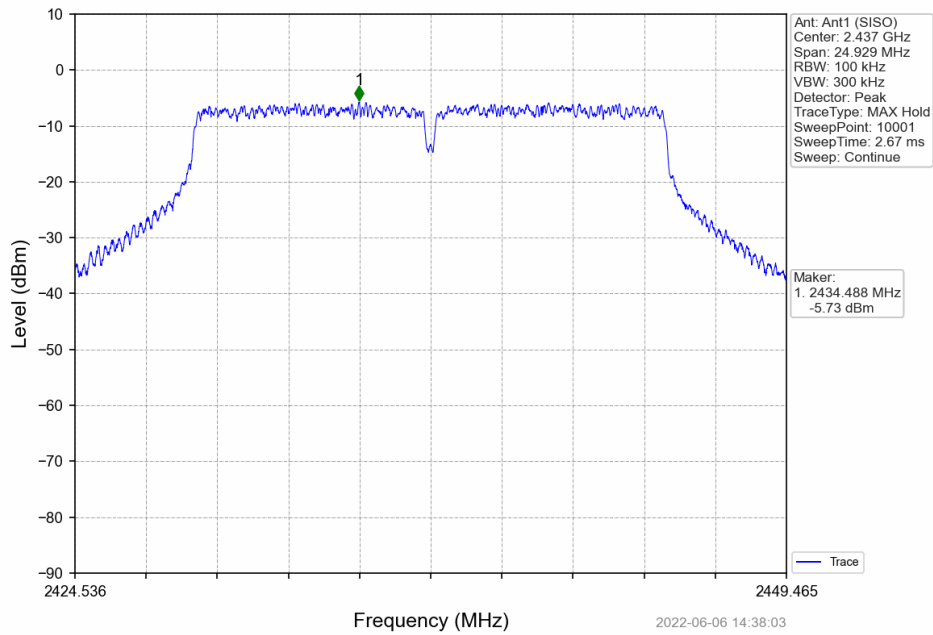
### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



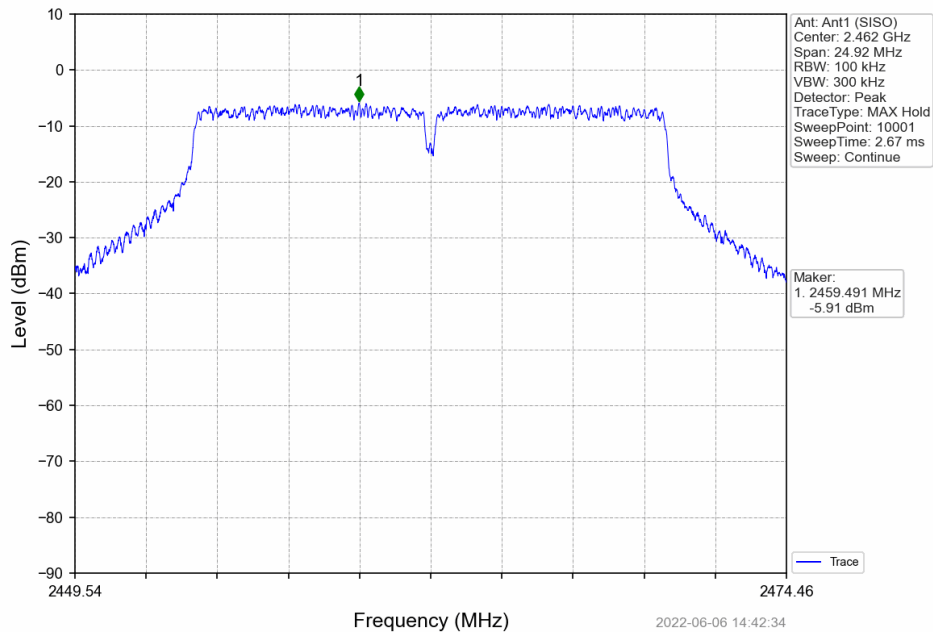
### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



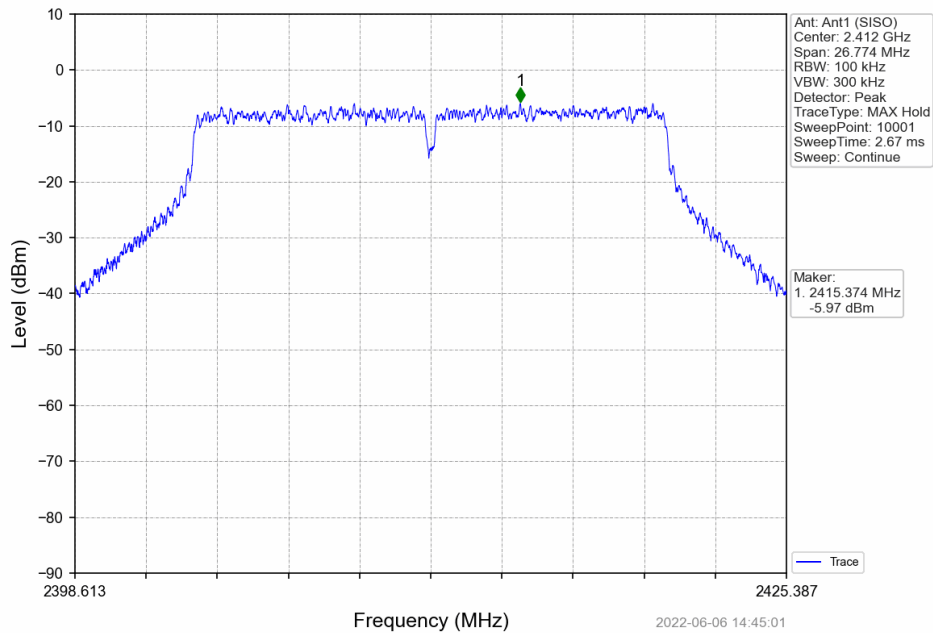
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



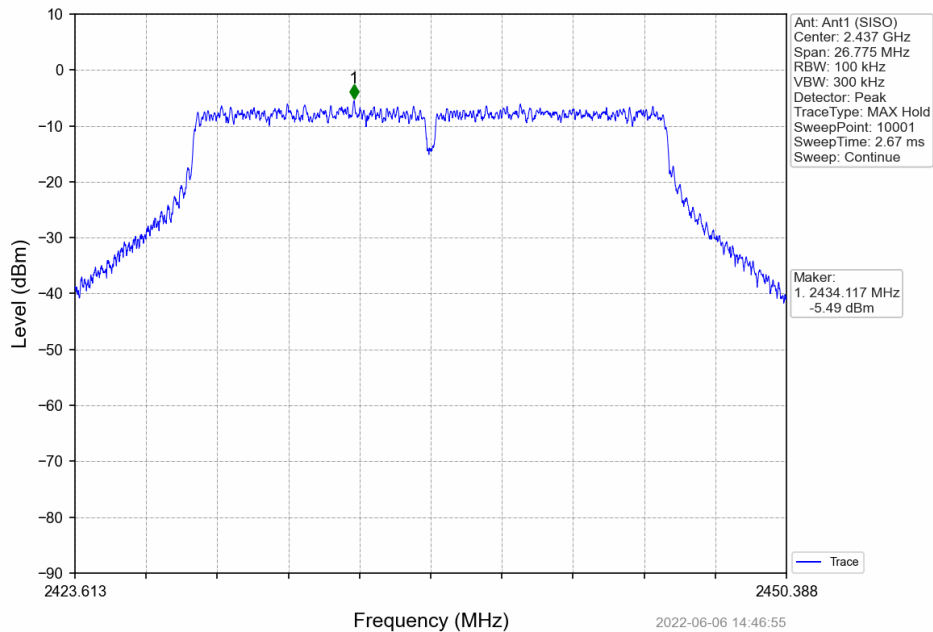
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



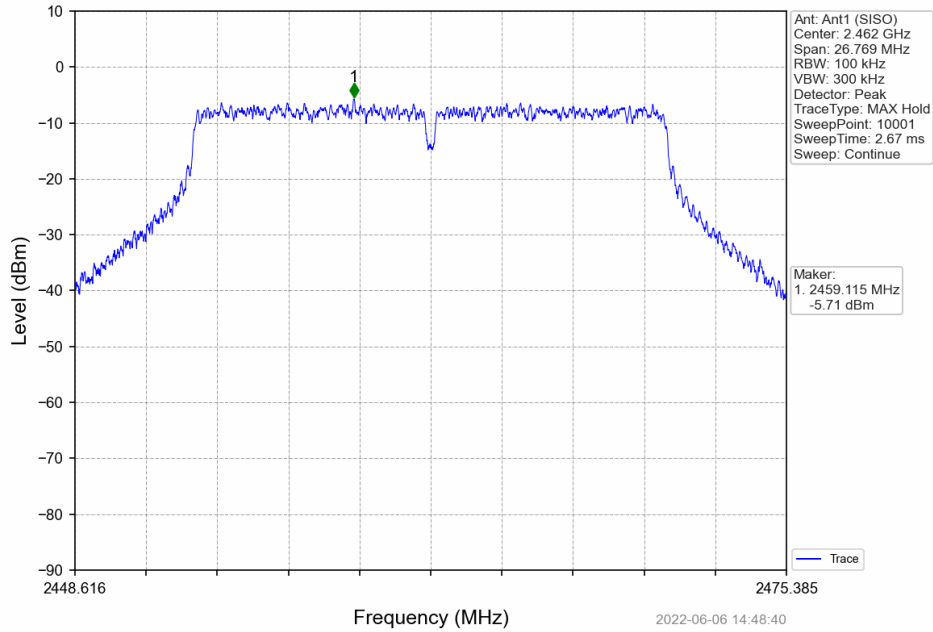
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



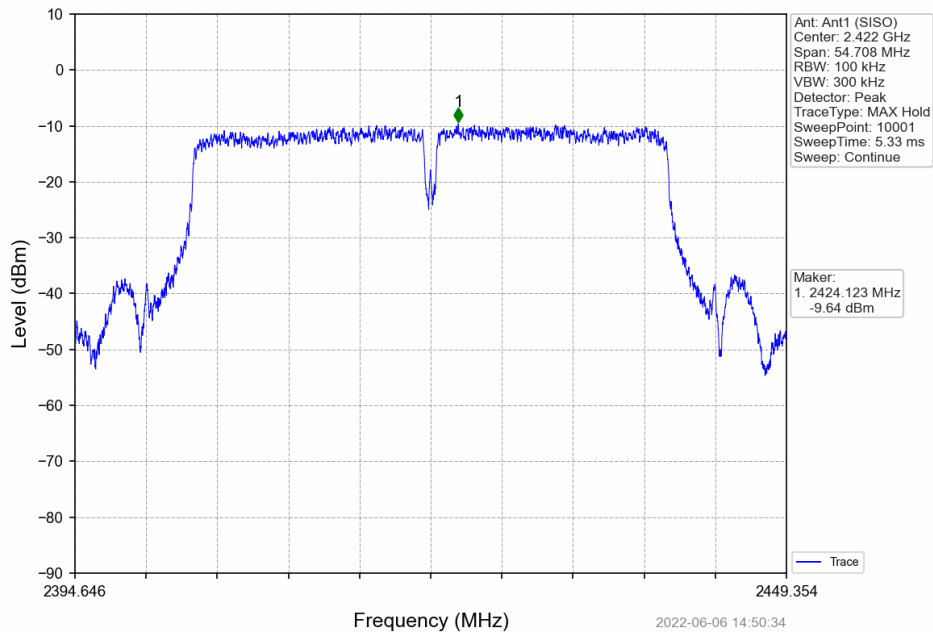
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



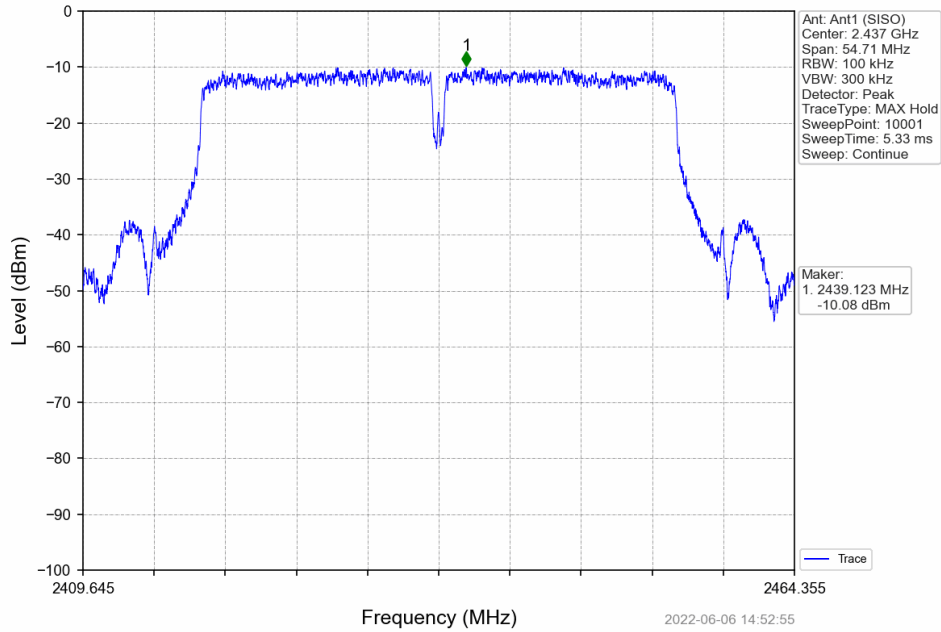
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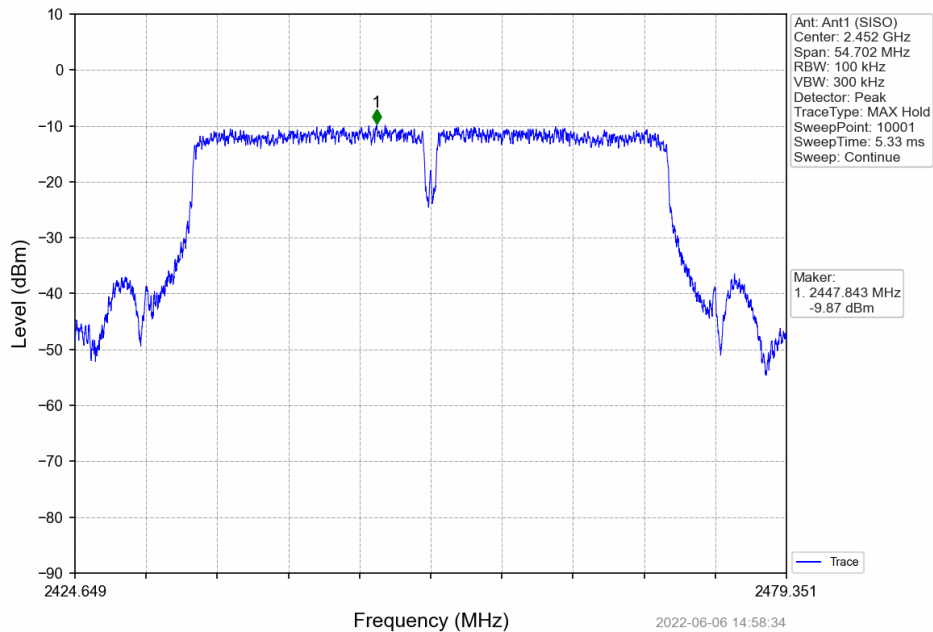
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



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



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## 5.2 CSE

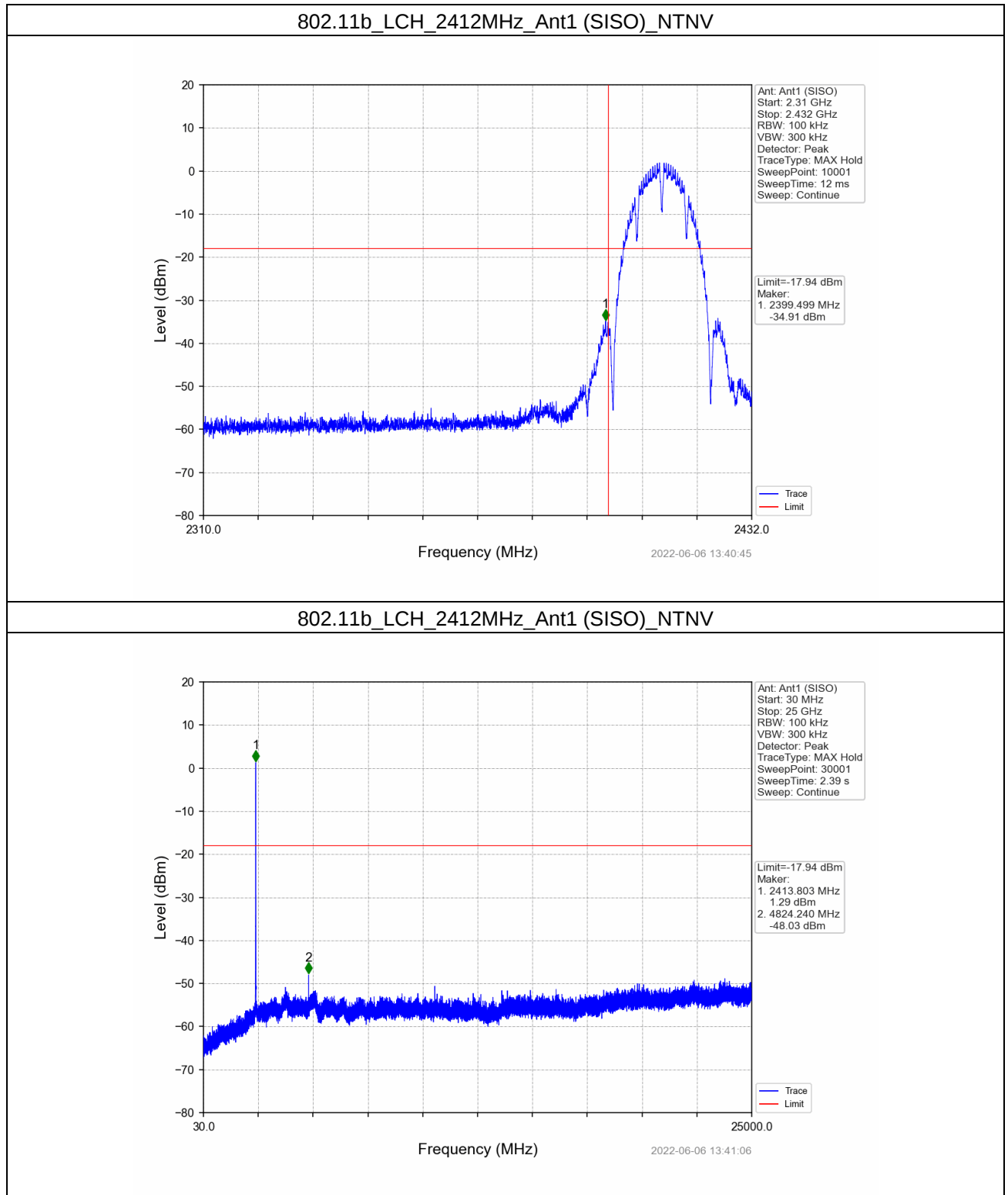
## 5.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b        | SISO    | 2412            | 1   | 2.06                     | -17.94      | Pass    |
|                |         | 2437            | 1   | 2.06                     | -17.94      | Pass    |
|                |         | 2462            | 1   | 2.06                     | -17.94      | Pass    |
| 802.11g        | SISO    | 2412            | 1   | -5.73                    | -25.73      | Pass    |
|                |         | 2437            | 1   | -5.73                    | -25.73      | Pass    |
|                |         | 2462            | 1   | -5.73                    | -25.73      | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | -5.49                    | -25.49      | Pass    |
|                |         | 2437            | 1   | -5.49                    | -25.49      | Pass    |
|                |         | 2462            | 1   | -5.49                    | -25.49      | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | -9.64                    | -29.64      | Pass    |
|                |         | 2437            | 1   | -9.64                    | -29.64      | Pass    |
|                |         | 2452            | 1   | -9.64                    | -29.64      | Pass    |

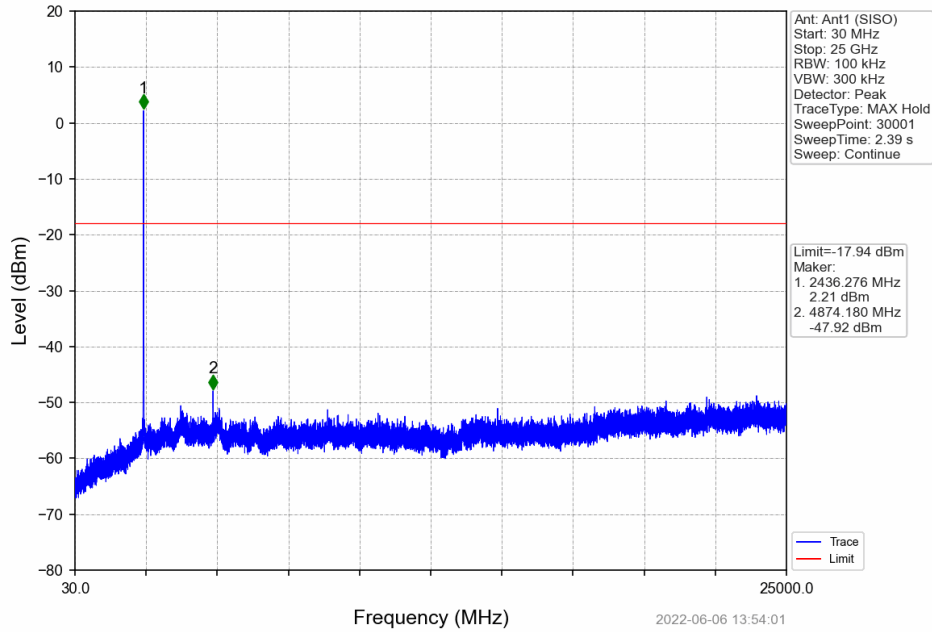
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

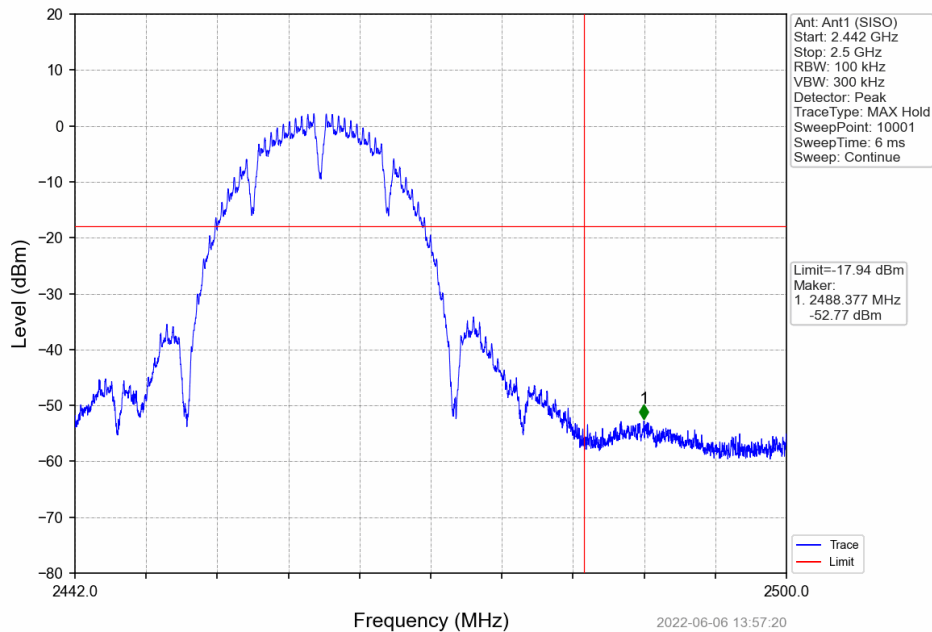
### 5.2.2 Test Graph



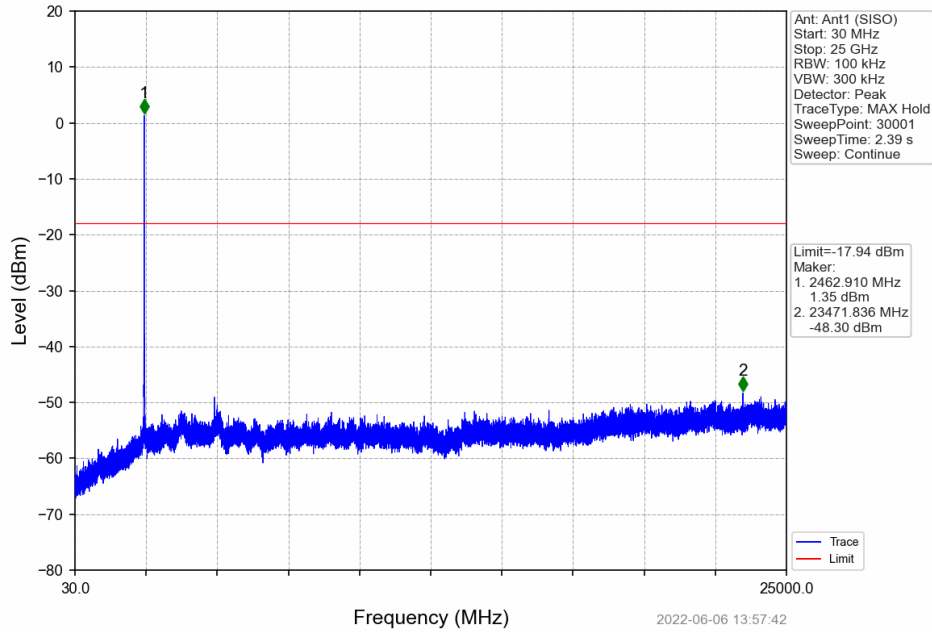
### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



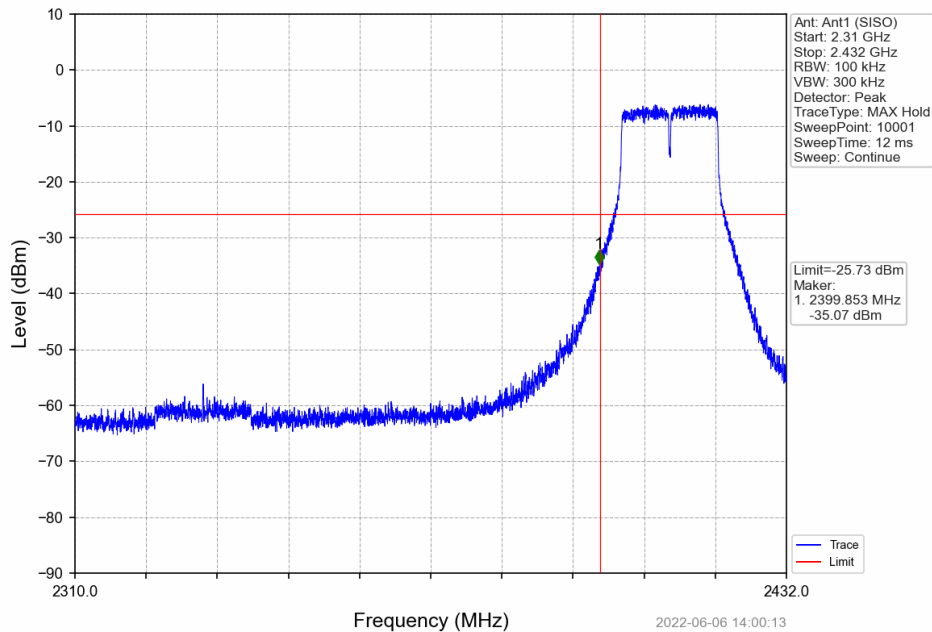
### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



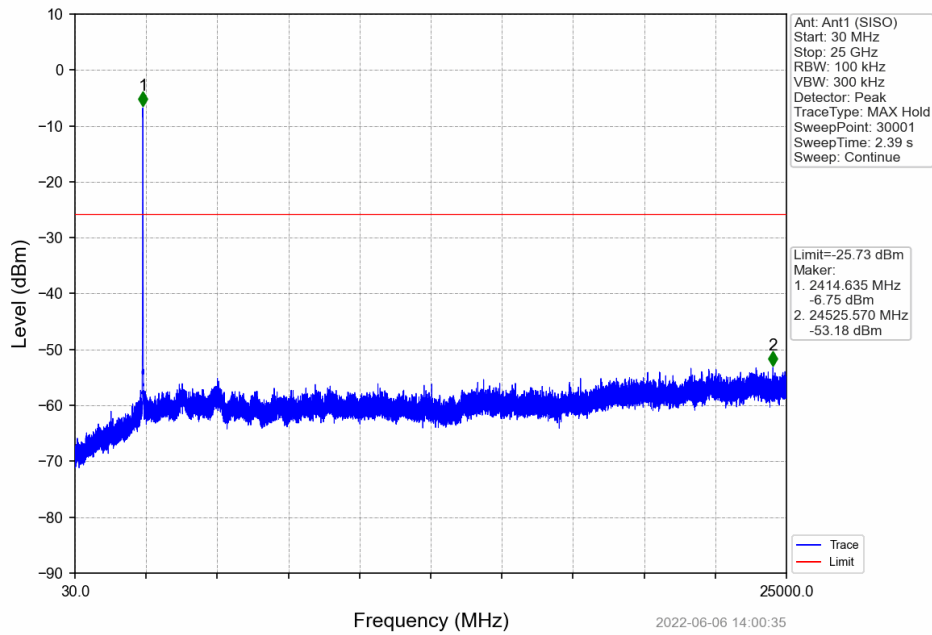
### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



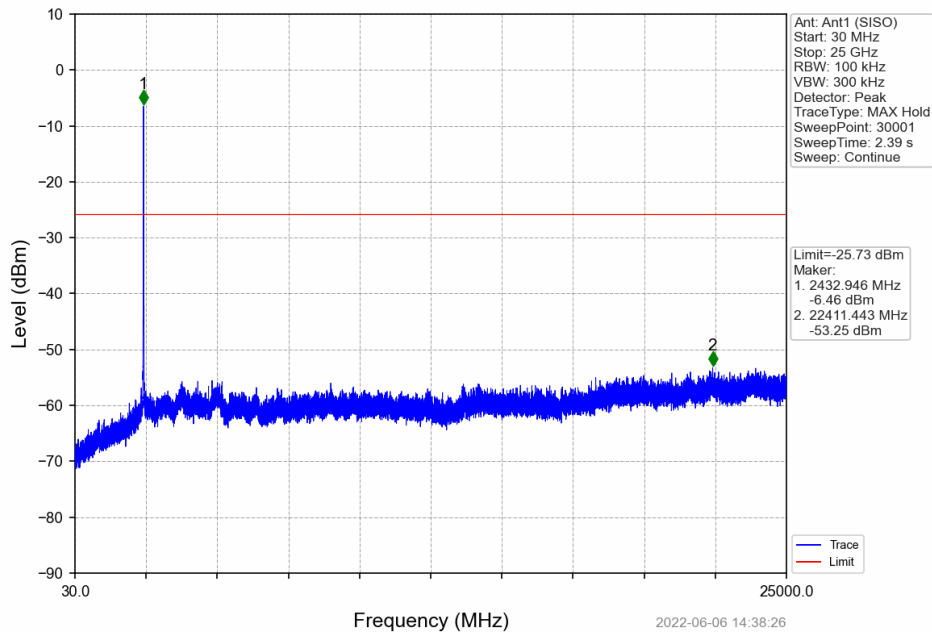
### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



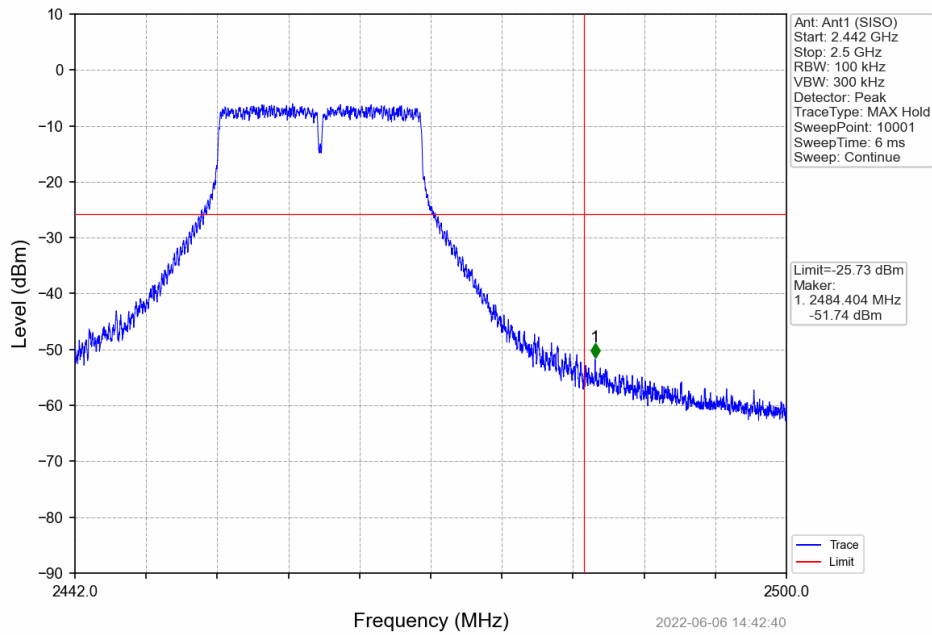
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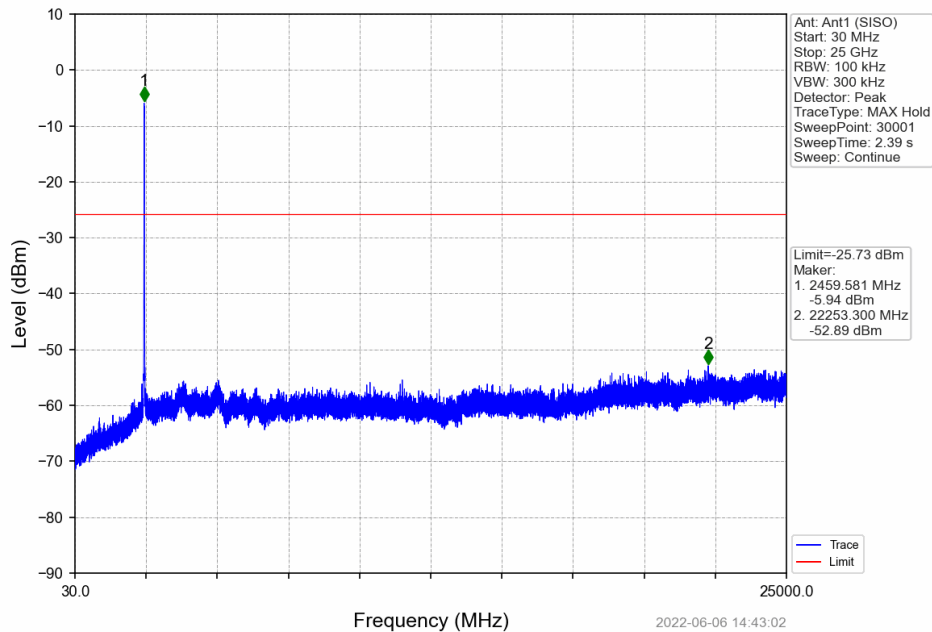
### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



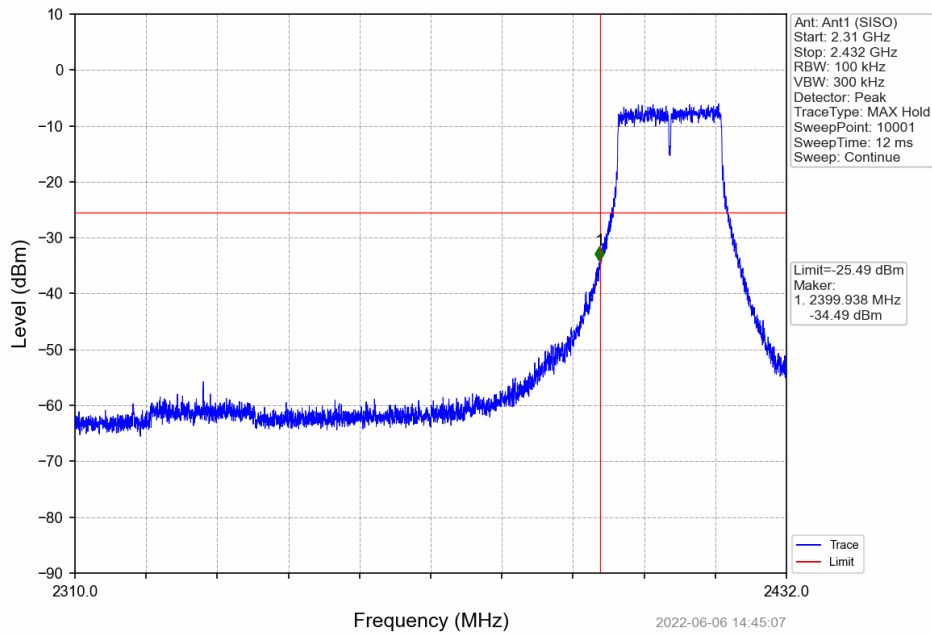
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



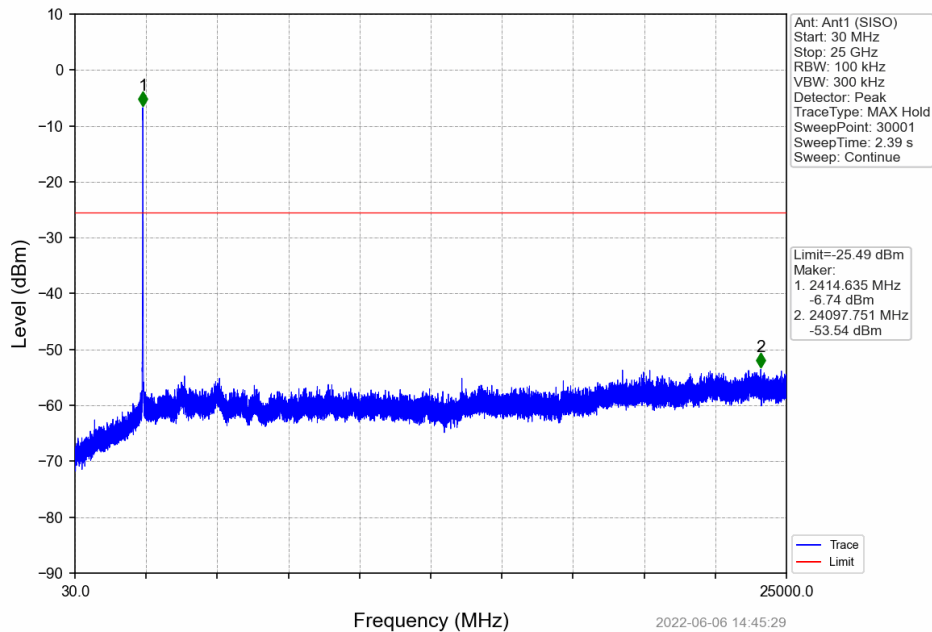
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

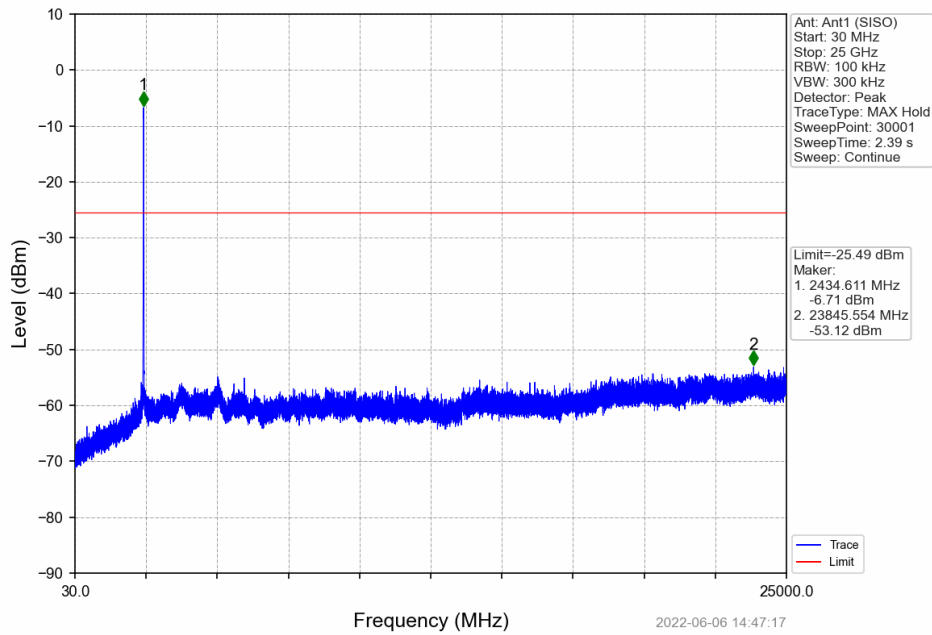


802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

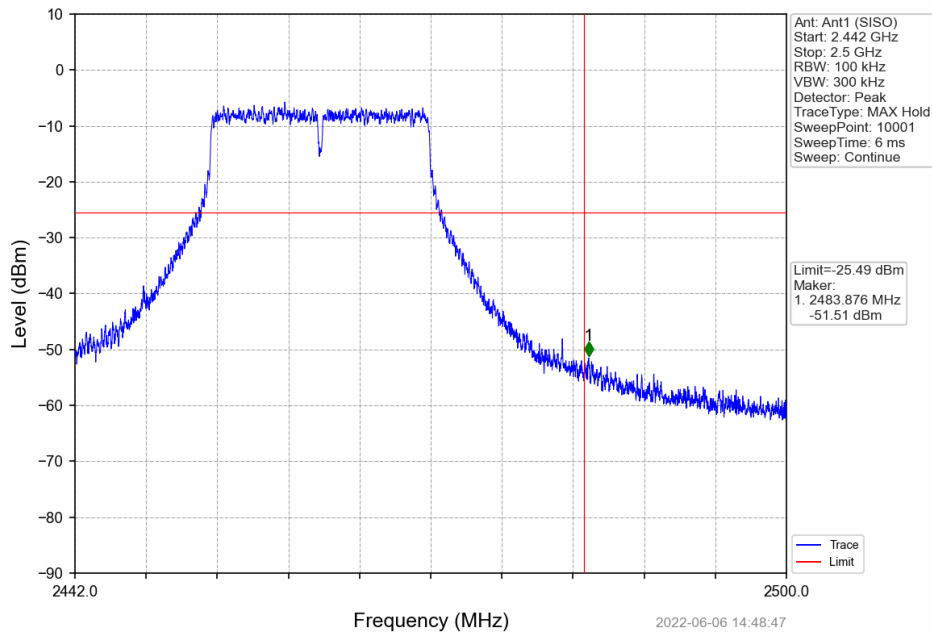


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### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

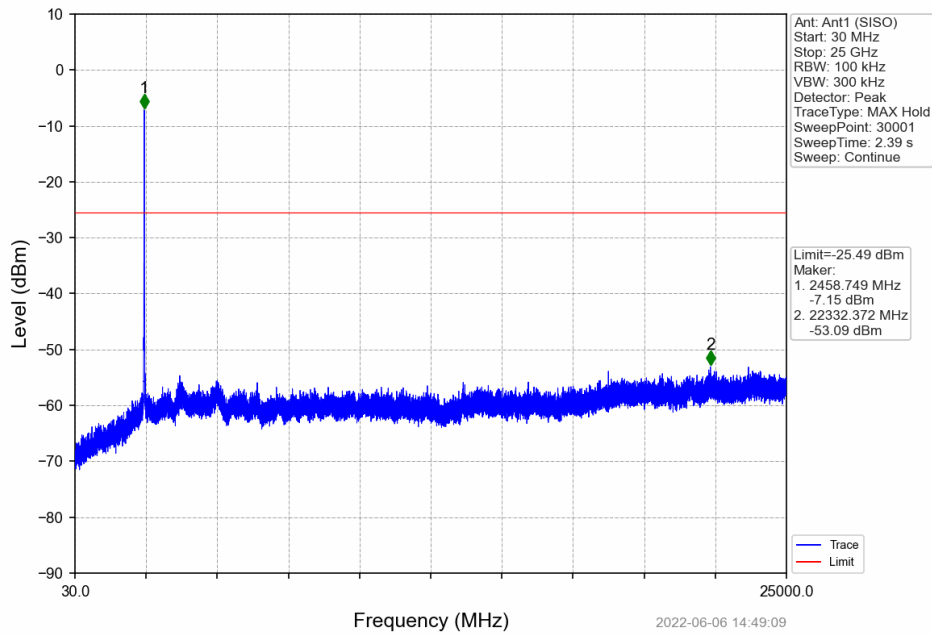


### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

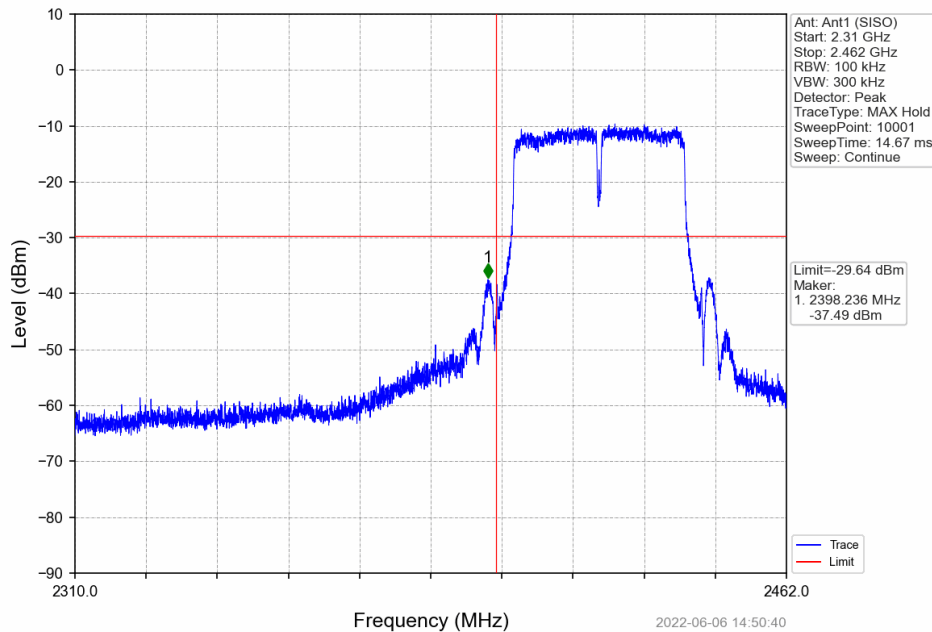


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### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

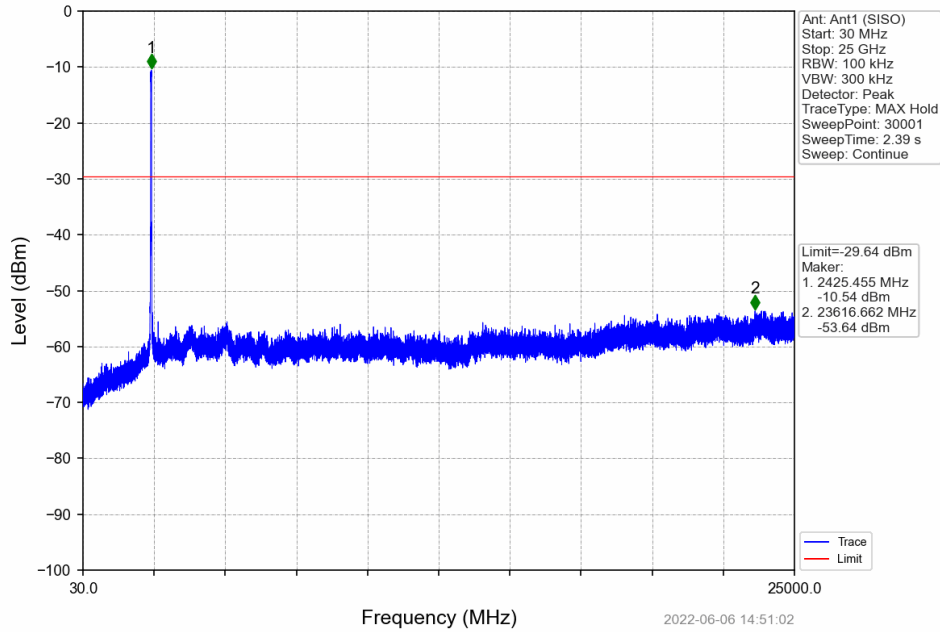


### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

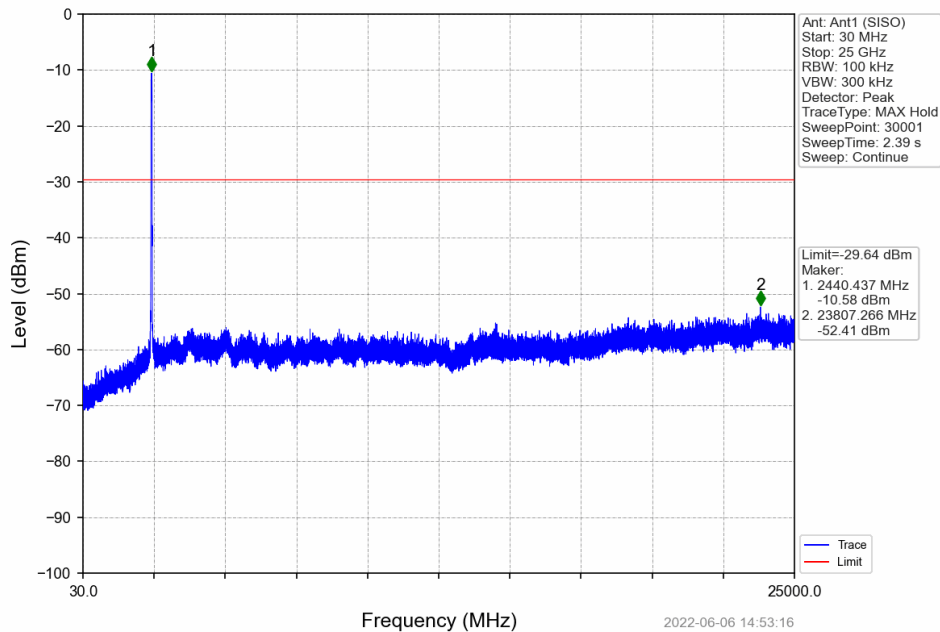


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### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



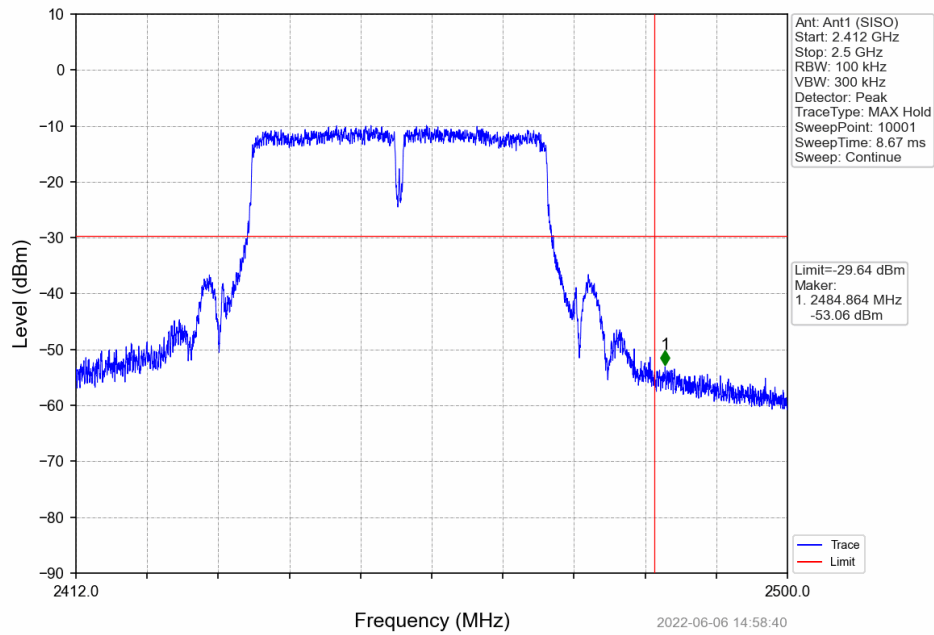
### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



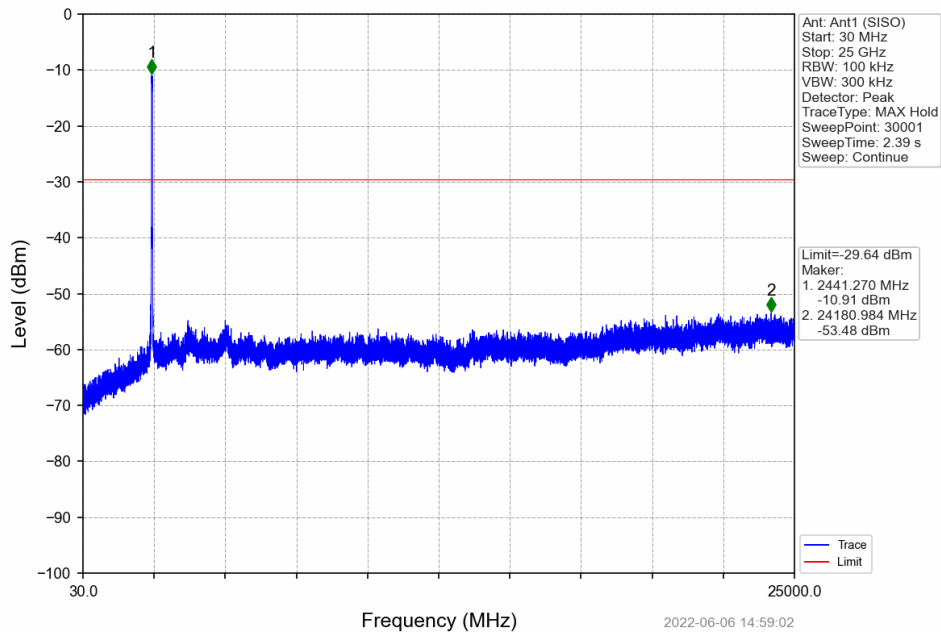
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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



- End of the Report -



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