



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK260522007A01E0101

# RF Test Report

## For BTEK260522007A01E01

|                      |                       |
|----------------------|-----------------------|
| Project No.:         | BTEK260522007A01E0101 |
| Product Description: | 22.3°C, 61%, 101.7kPa |
| Test Engineer:       | Zora                  |
| Test Date:           | 2026-06-12            |



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK260522007A01E0101

## Test Summary

| Item                                                 | Result |
|------------------------------------------------------|--------|
| Duty Cycle                                           | Pass   |
| Bandwidth                                            | Pass   |
| Maximum Conducted Output Power                       | Pass   |
| Maximum Power Spectral Density                       | Pass   |
| Unwanted Emissions In Non-restricted Frequency Bands | Pass   |
| Unwanted Emissions In Restricted Frequency Bands     | Pass   |



## 1. Duty Cycle

### 1.1 Test Result

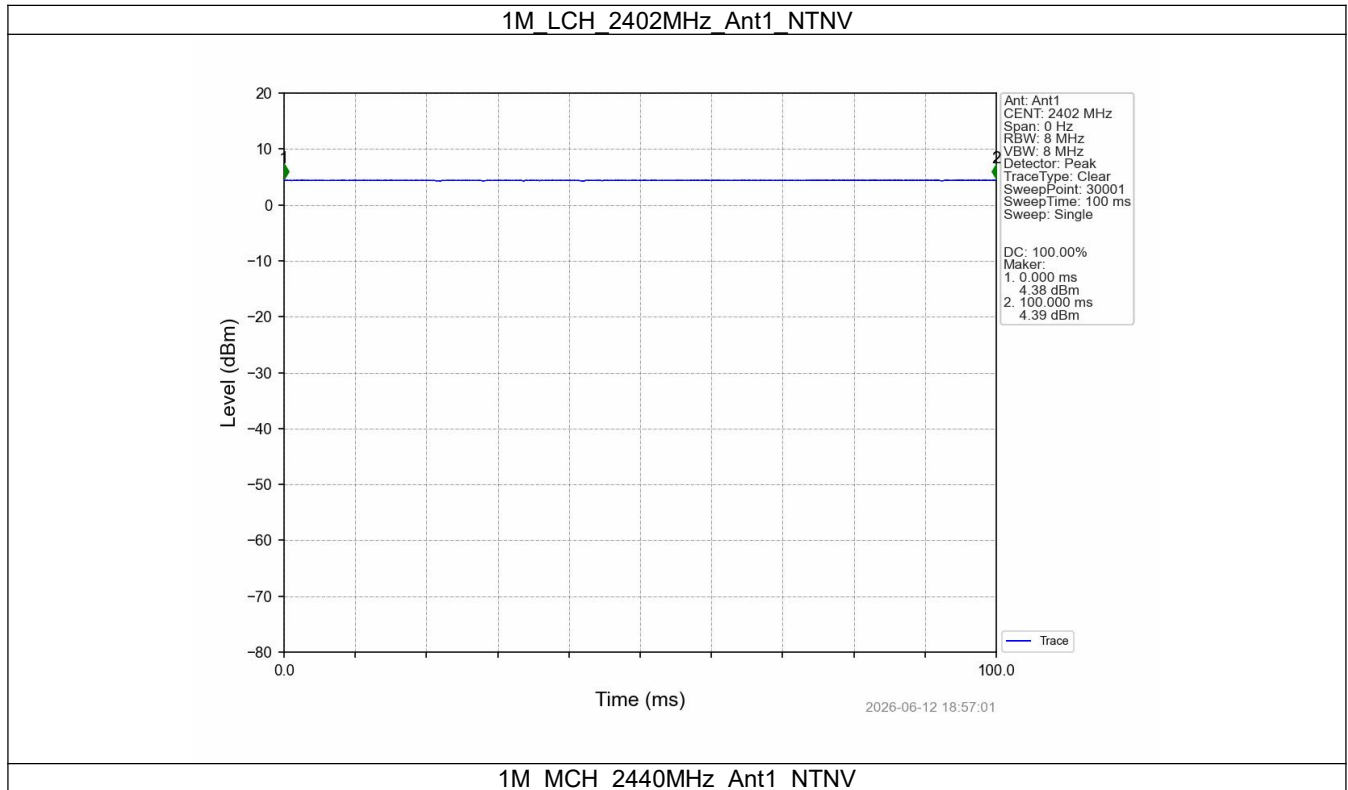
#### 1.1.1 Ant1

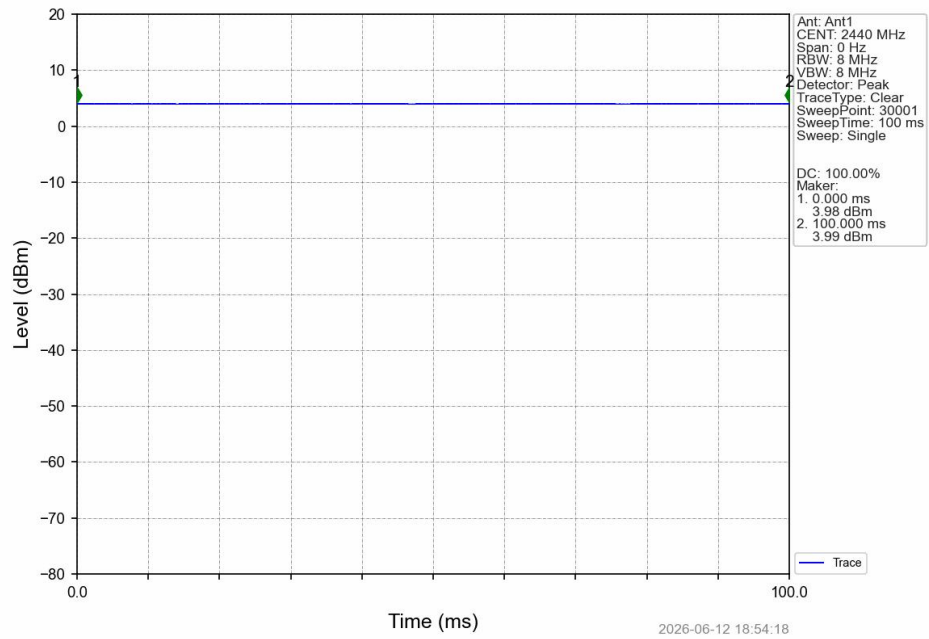
| Ant1 |         |                 |           |             |                |                                   |                       |
|------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 1M   | SISO    | 2402            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2440            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2480            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 2M   | SISO    | 2402            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2440            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |
|      |         | 2480            | 100.000   | 100.000     | 100.00         | 0.00                              | 0.00                  |



## 1.2 Test Graph

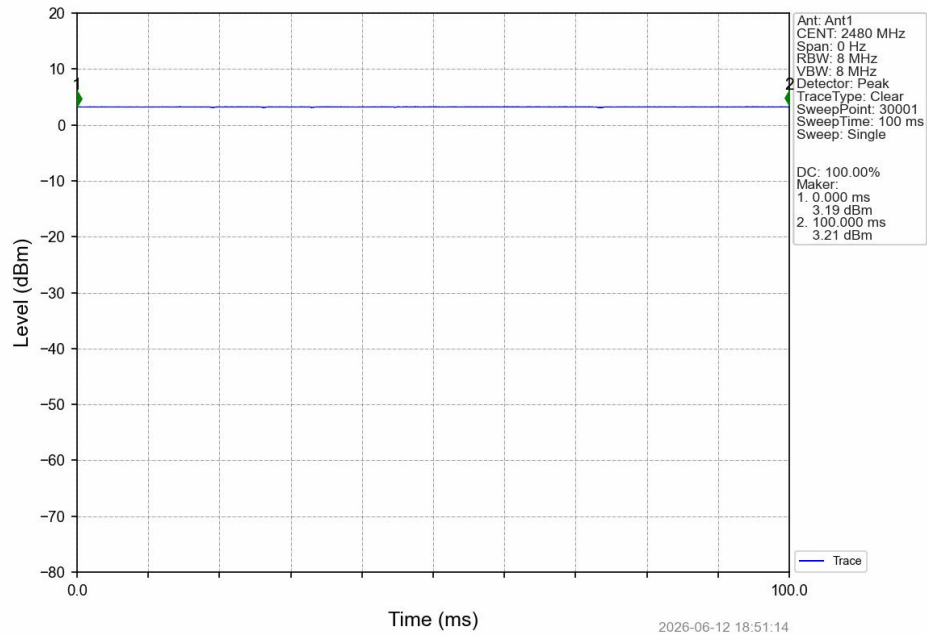
### 1.2.1 Ant1



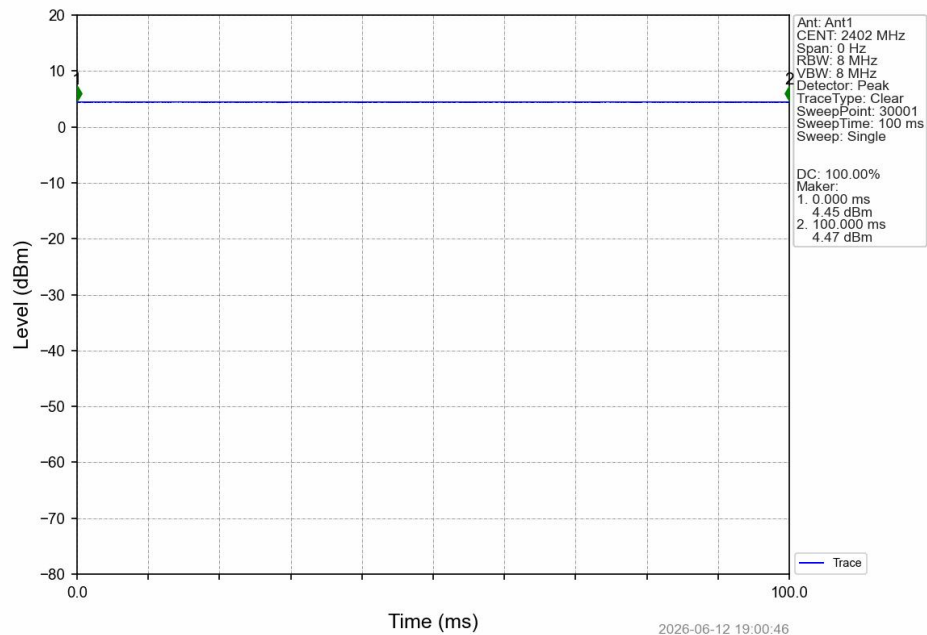




1M\_HCH\_2480MHz\_Ant1\_NTNV

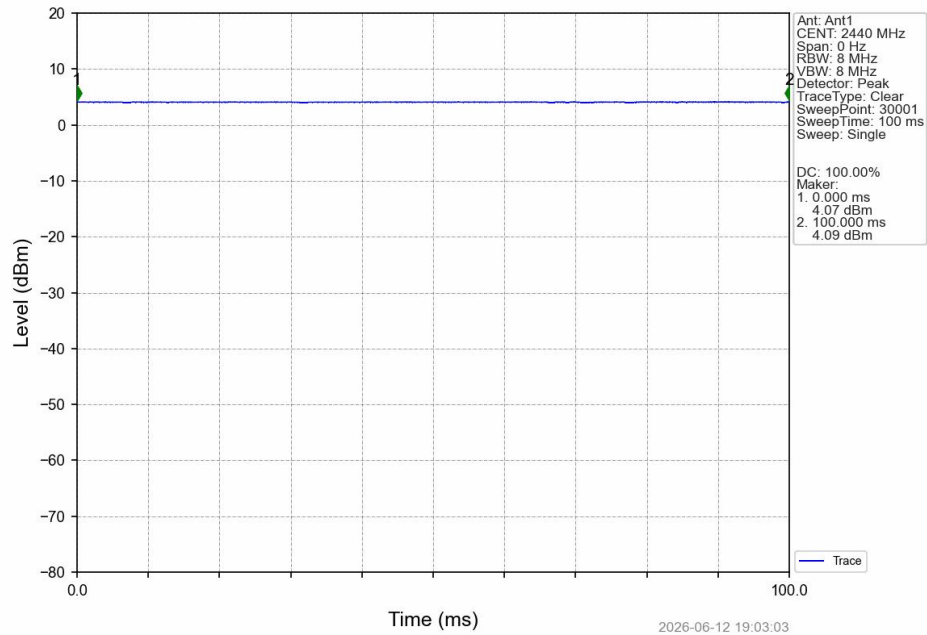


2M\_LCH\_2402MHz\_Ant1\_NTNV

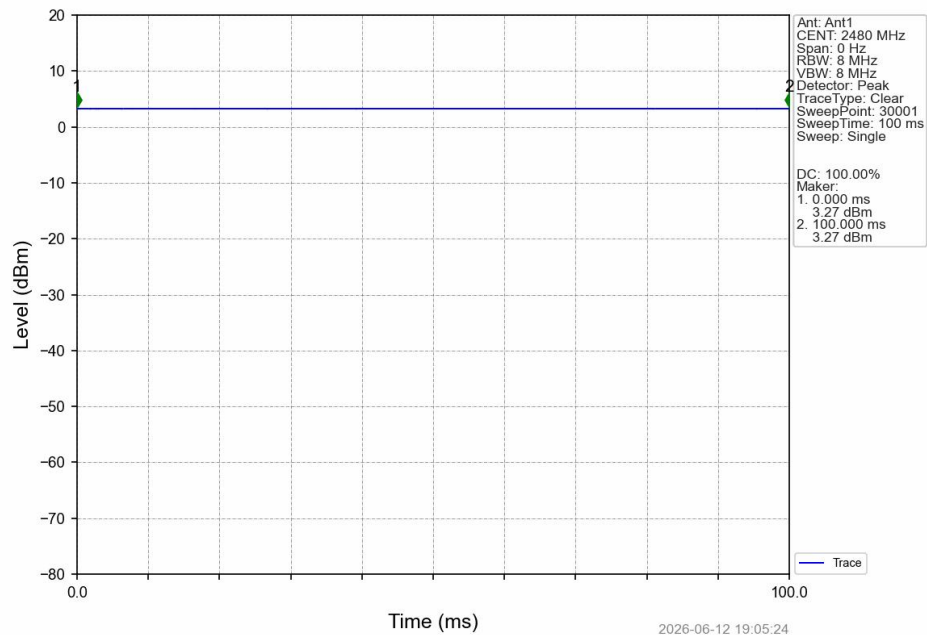




2M\_MCH\_2440MHz\_Ant1\_NTNV



2M\_HCH\_2480MHz\_Ant1\_NTNV





## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------|---------|-----------------|-----|------------------------------|-------|---------|
|      |         |                 |     | Result                       | Limit |         |
| 1M   | SISO    | 2402            | 1   | 1.067                        | /     | Pass    |
|      |         | 2440            | 1   | 1.056                        | /     | Pass    |
|      |         | 2480            | 1   | 1.057                        | /     | Pass    |
| 2M   | SISO    | 2402            | 1   | 2.228                        | /     | Pass    |
|      |         | 2440            | 1   | 2.223                        | /     | Pass    |
|      |         | 2480            | 1   | 2.210                        | /     | Pass    |

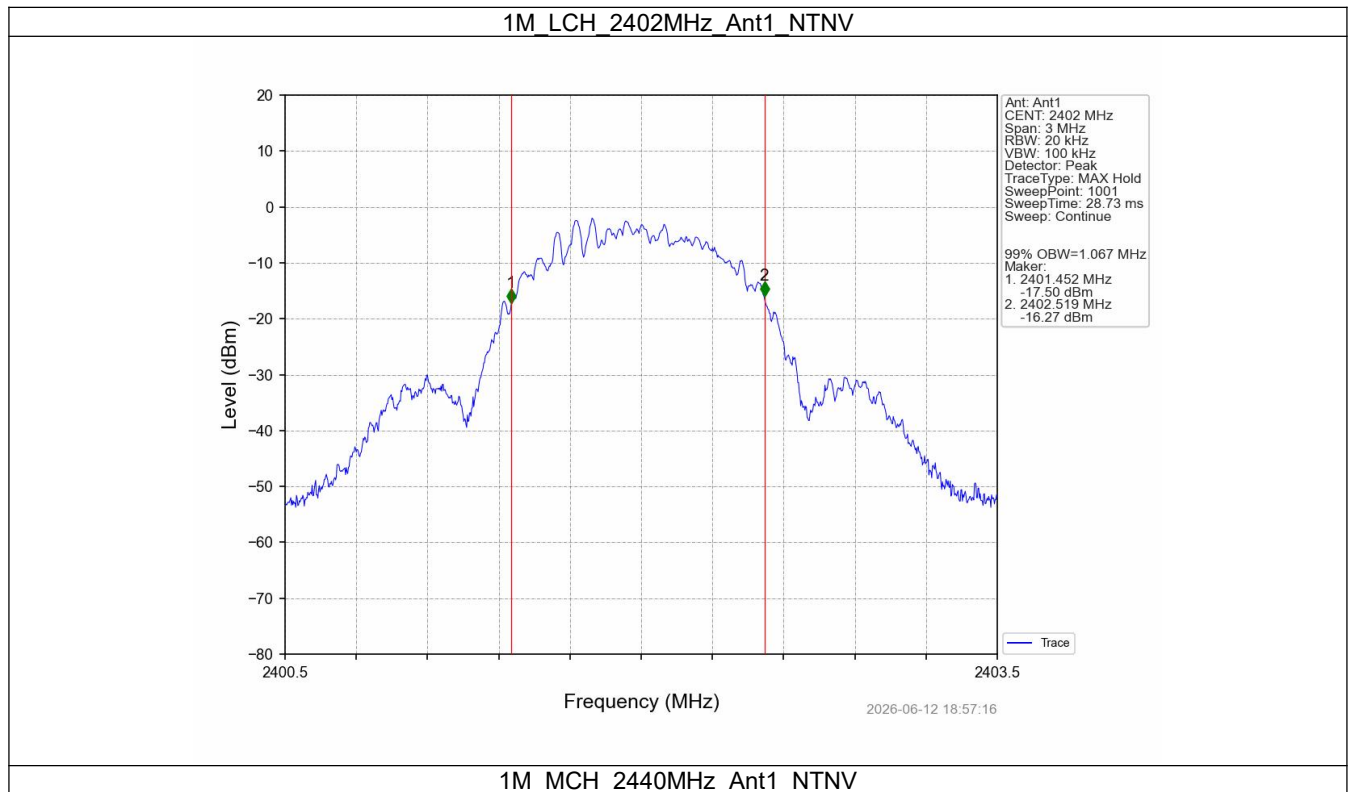
#### 2.1.2 6dB BW

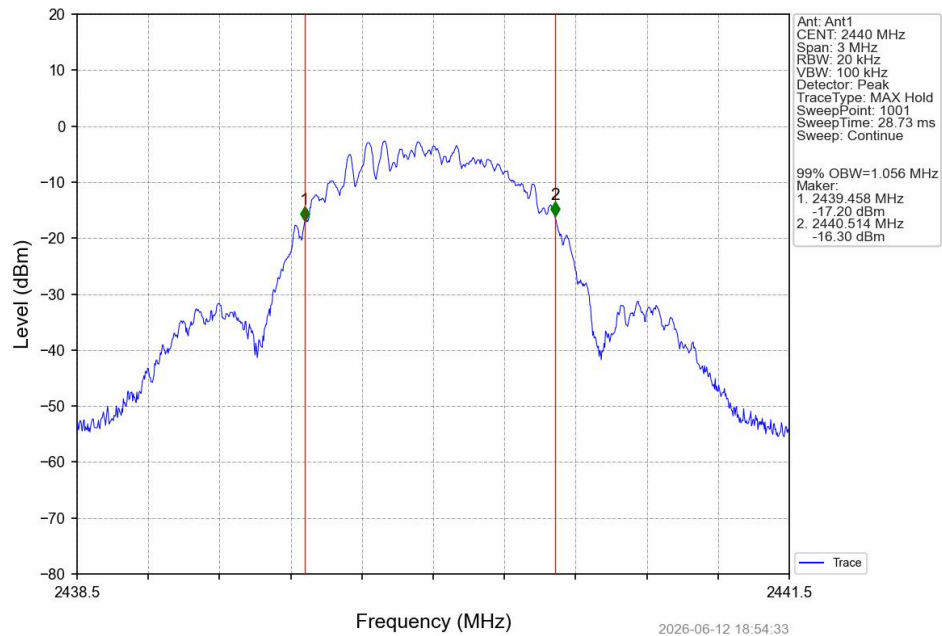
| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| 1M   | SISO    | 2402            | 1   | 0.780               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 0.771               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 0.779               | $\geq 0.5$ | Pass    |
| 2M   | SISO    | 2402            | 1   | 1.437               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 1.429               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 1.424               | $\geq 0.5$ | Pass    |



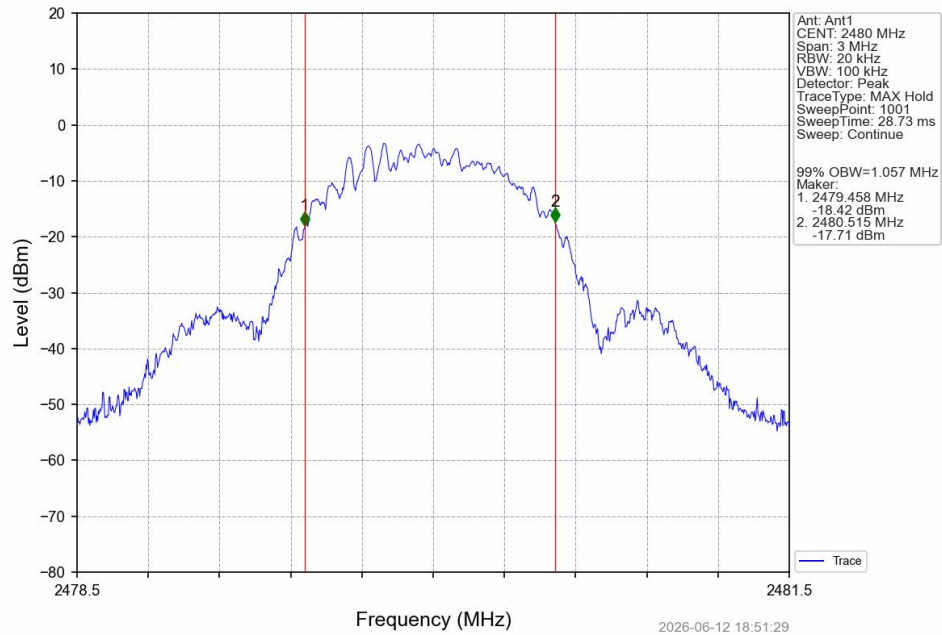
## 2.2 Test Graph

### 2.2.1 OBW

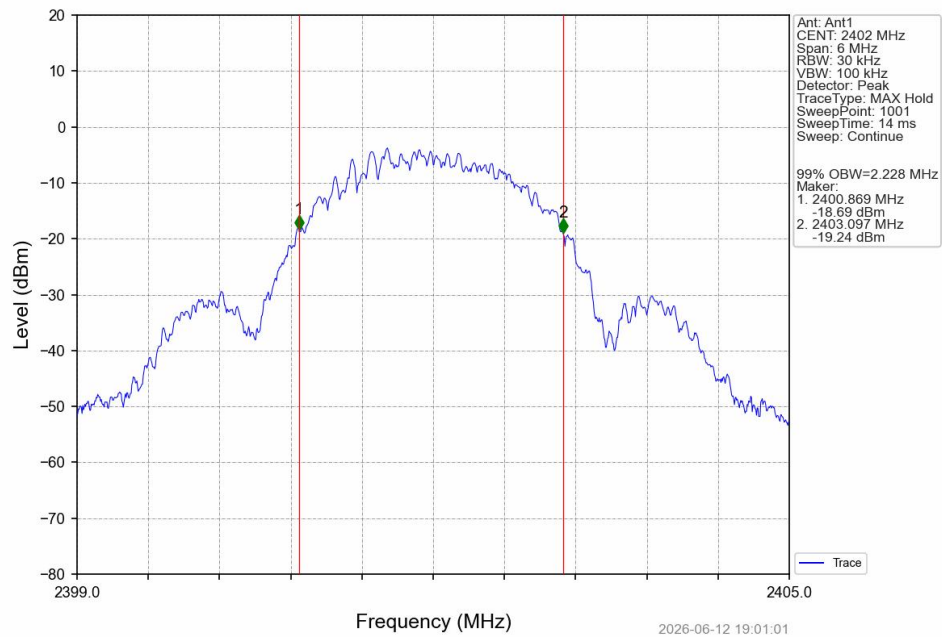




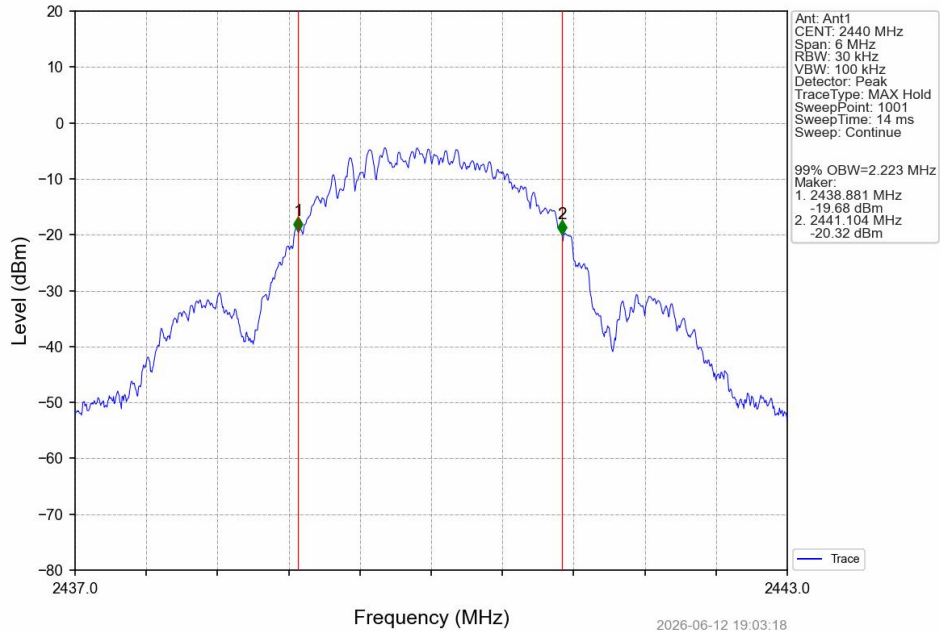
1M\_HCH\_2480MHz\_Ant1\_NTNV



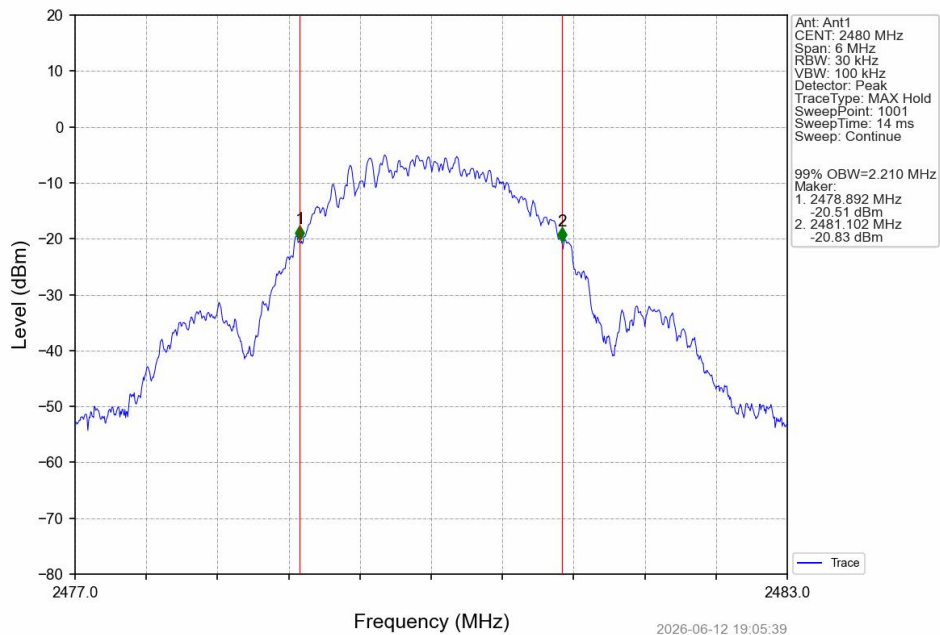
2M\_LCH\_2402MHz\_Ant1\_NTNV



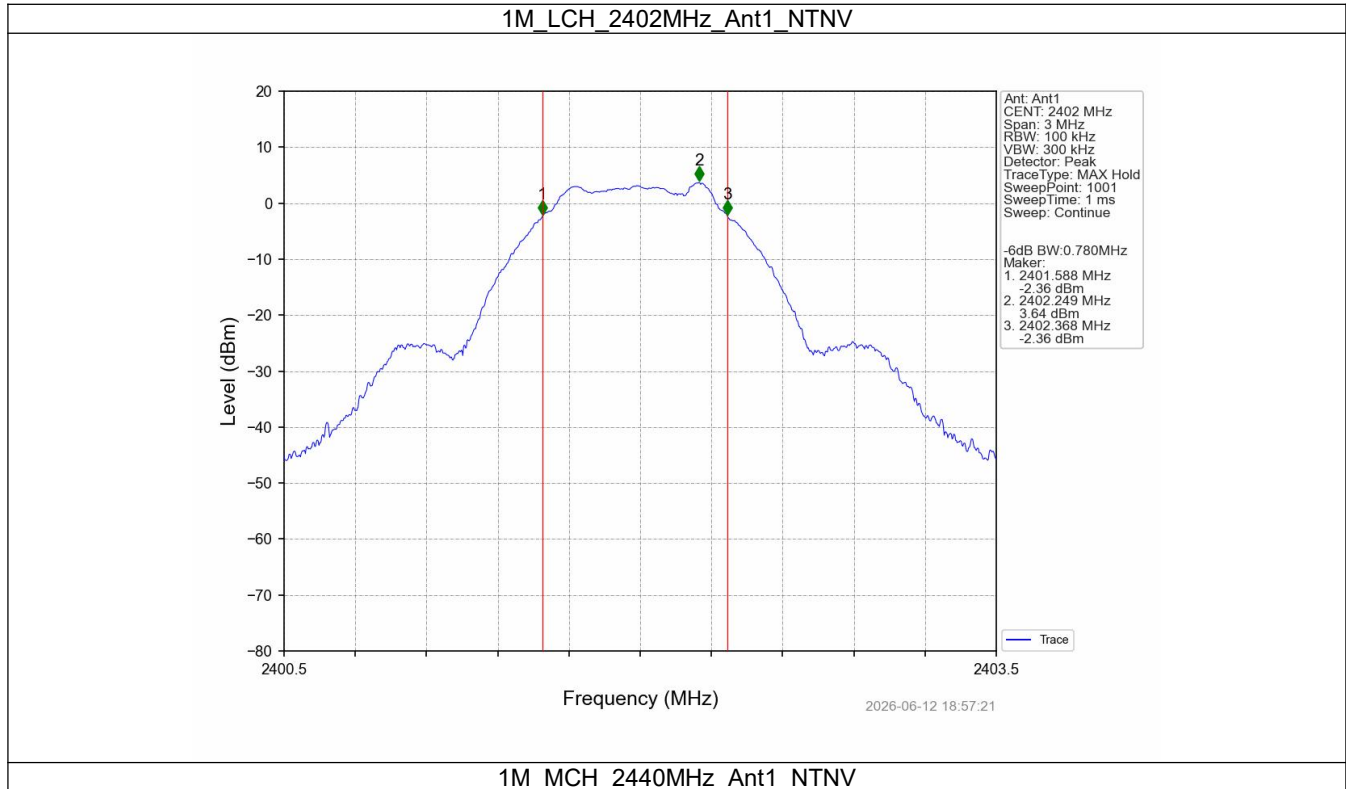
2M\_MCH\_2440MHz\_Ant1\_NTNV



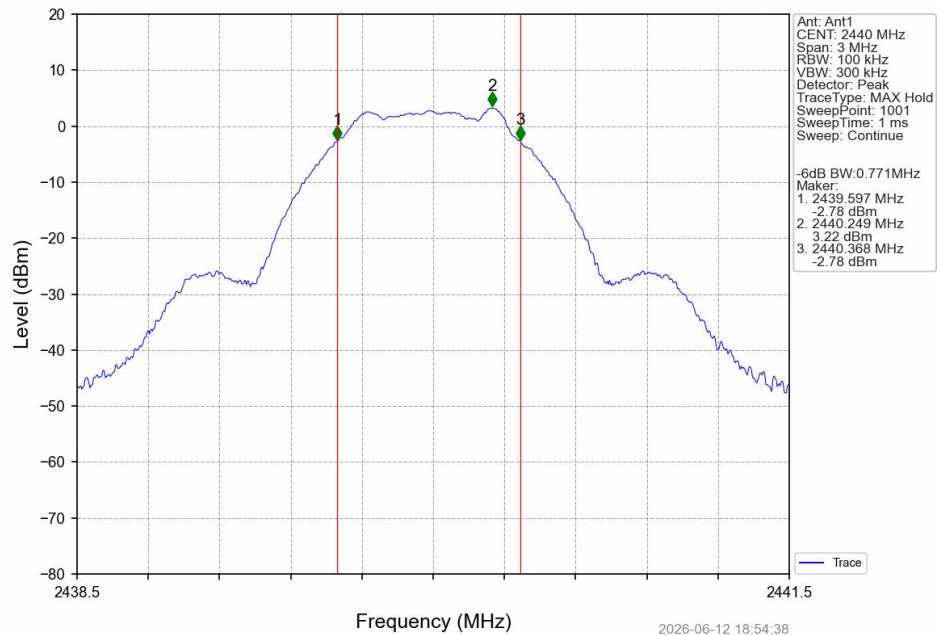
2M\_HCH\_2480MHz\_Ant1\_NTNV



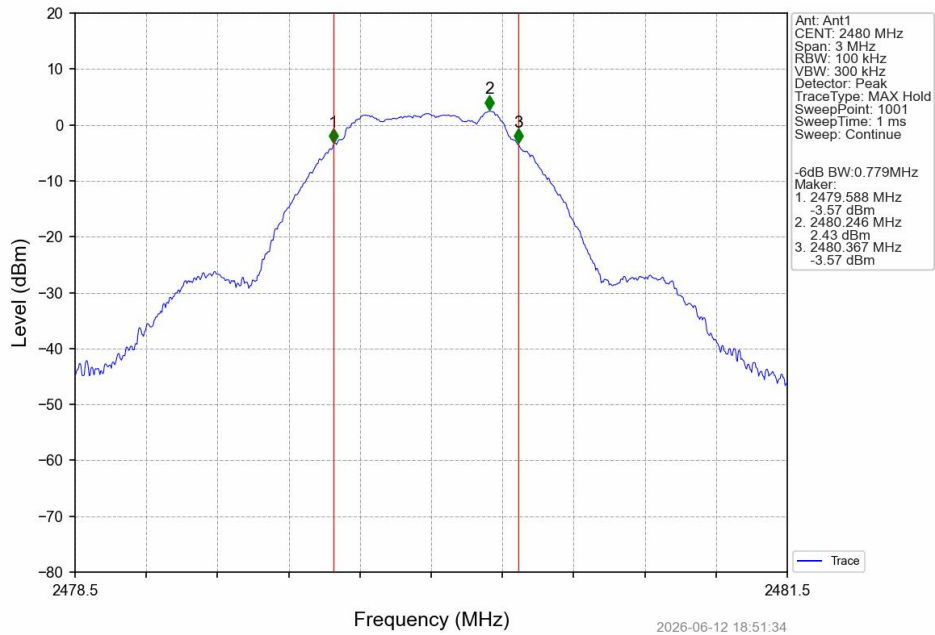
### 2.2.2 6dB BW



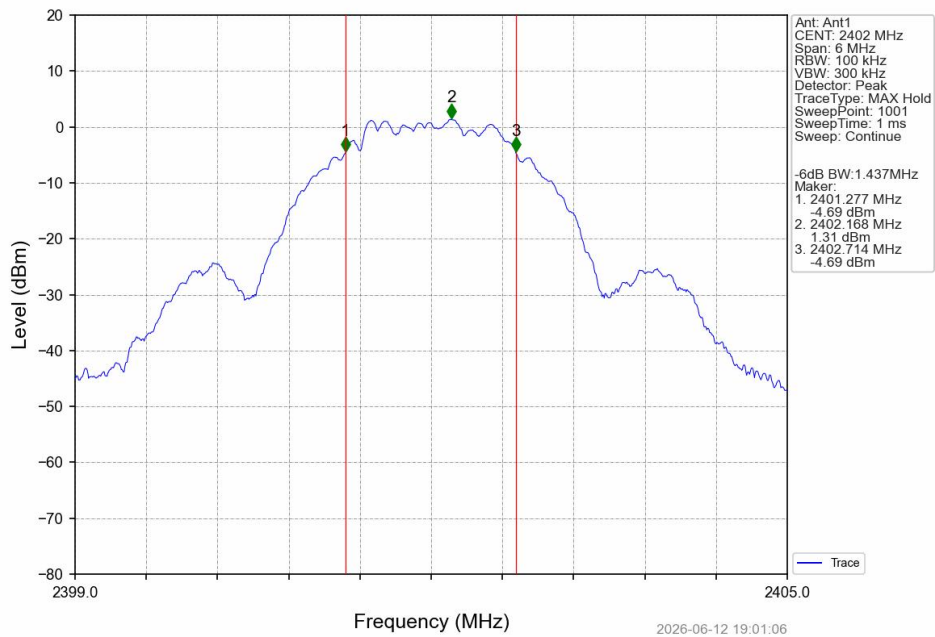
1M\_MCH\_2440MHz\_Ant1\_NTNV



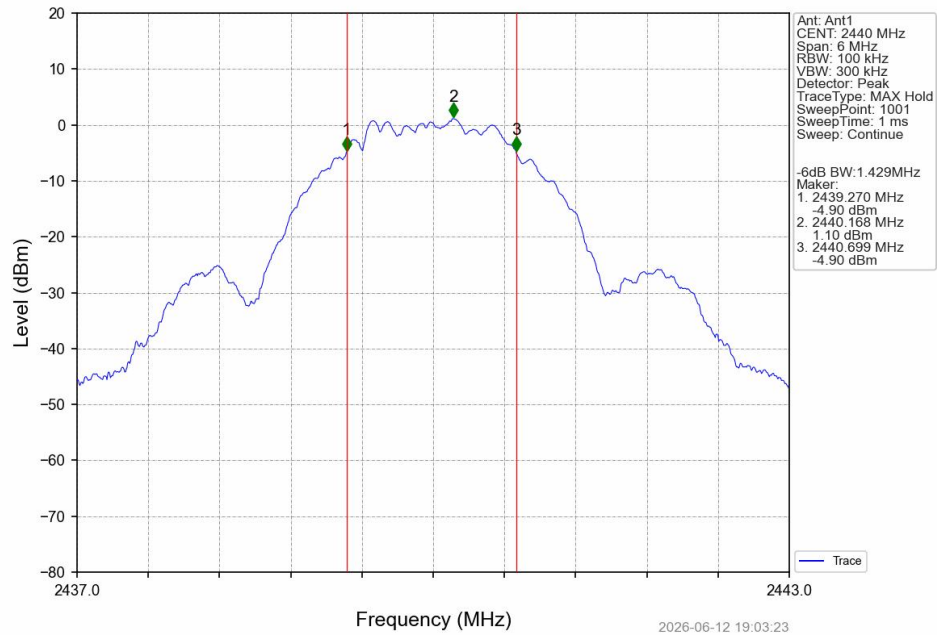
1M\_HCH\_2480MHz\_Ant1\_NTNV



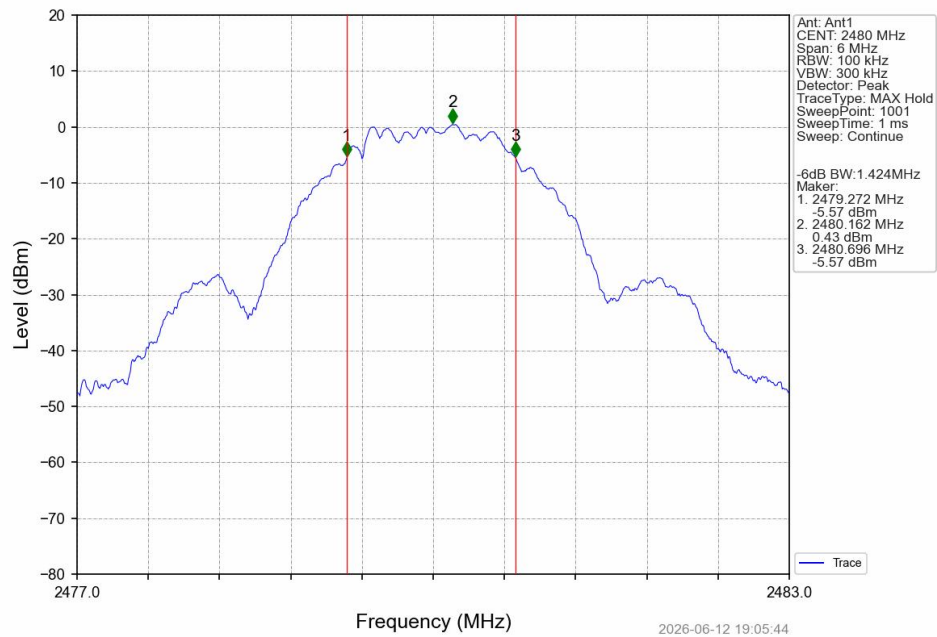
2M\_LCH\_2402MHz\_Ant1\_NTNV



2M\_MCH\_2440MHz\_Ant1\_NTNV



2M\_HCH\_2480MHz\_Ant1\_NTNV





### 3. Maximum Conducted Output Power

#### 3.1 Test Result

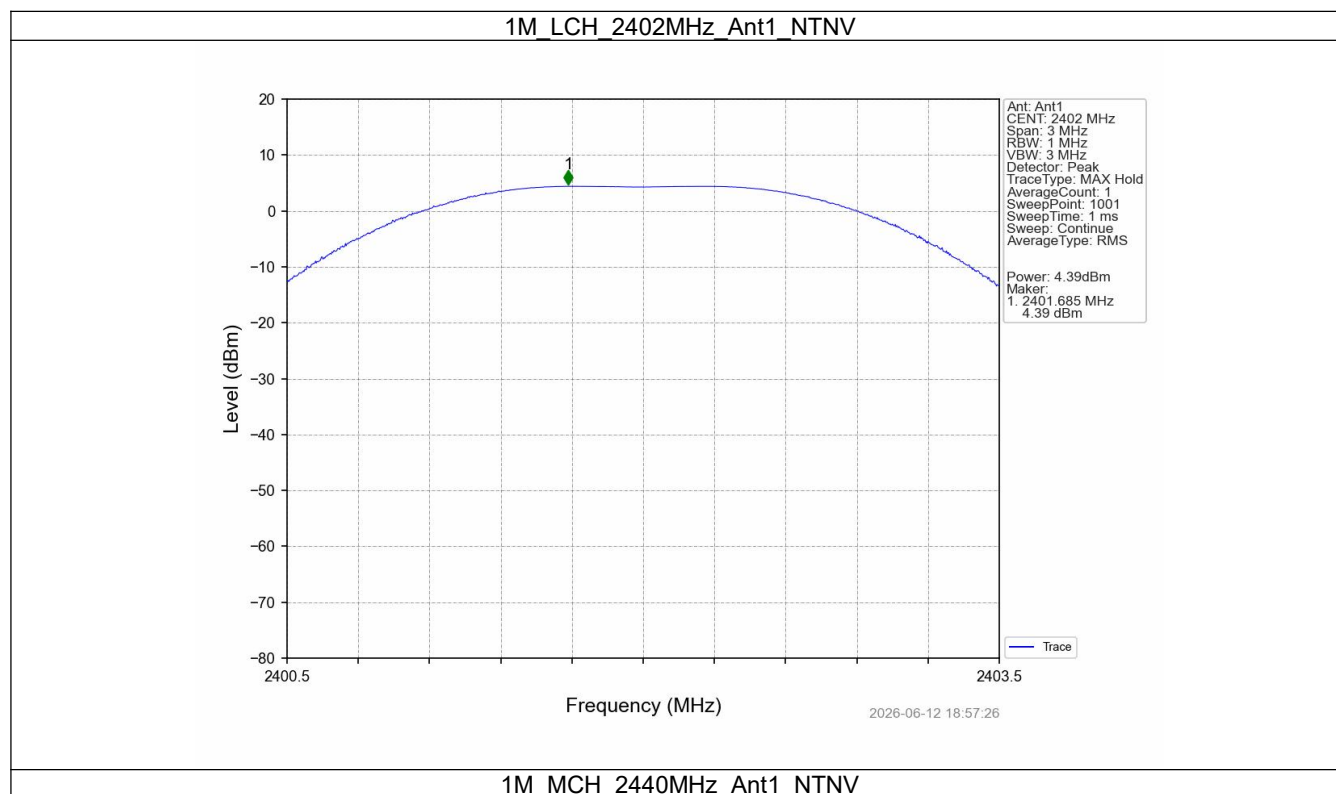
##### 3.1.1 Power

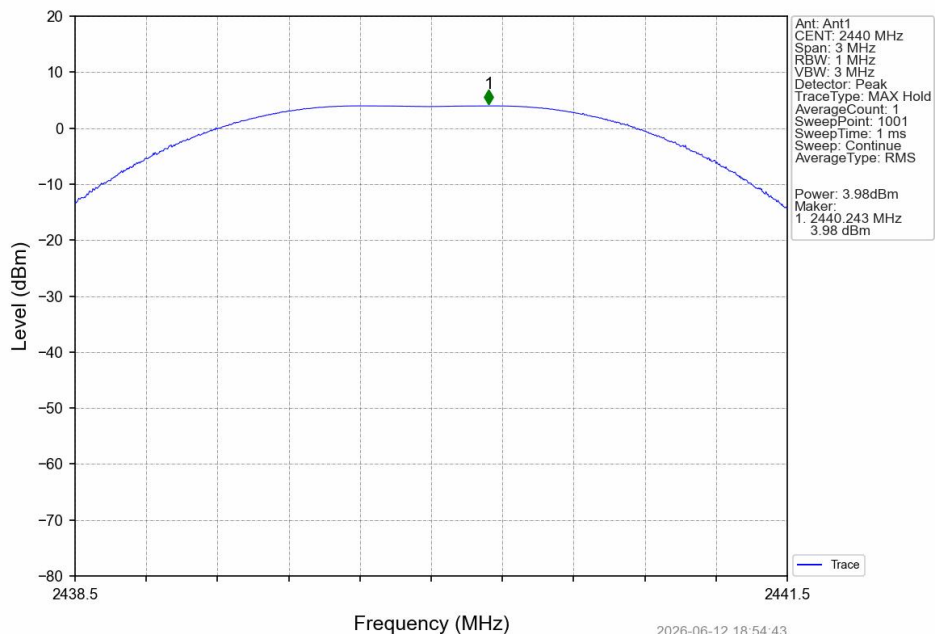
| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|------|---------|-----------------|-------------------------------------------|-------|---------|
|      |         |                 | ANT1                                      | Limit |         |
| 1M   | SISO    | 2402            | 4.39                                      | <=30  | Pass    |
|      |         | 2440            | 3.98                                      | <=30  | Pass    |
|      |         | 2480            | 3.21                                      | <=30  | Pass    |
| 2M   | SISO    | 2402            | 4.40                                      | <=30  | Pass    |
|      |         | 2440            | 4.00                                      | <=30  | Pass    |
|      |         | 2480            | 3.24                                      | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 2dBi;

## 3.2 Test Graph

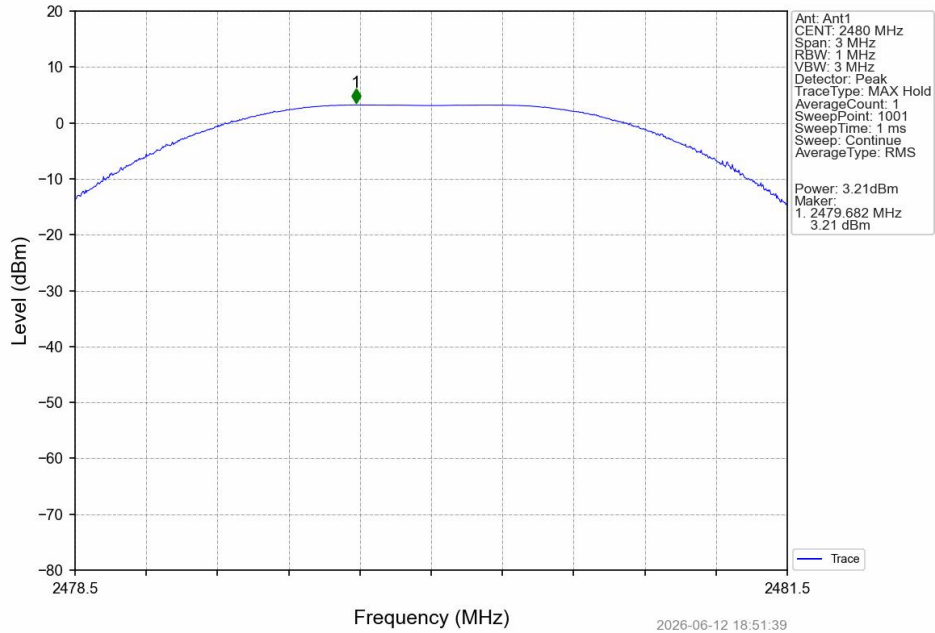
### 3.2.1 Power



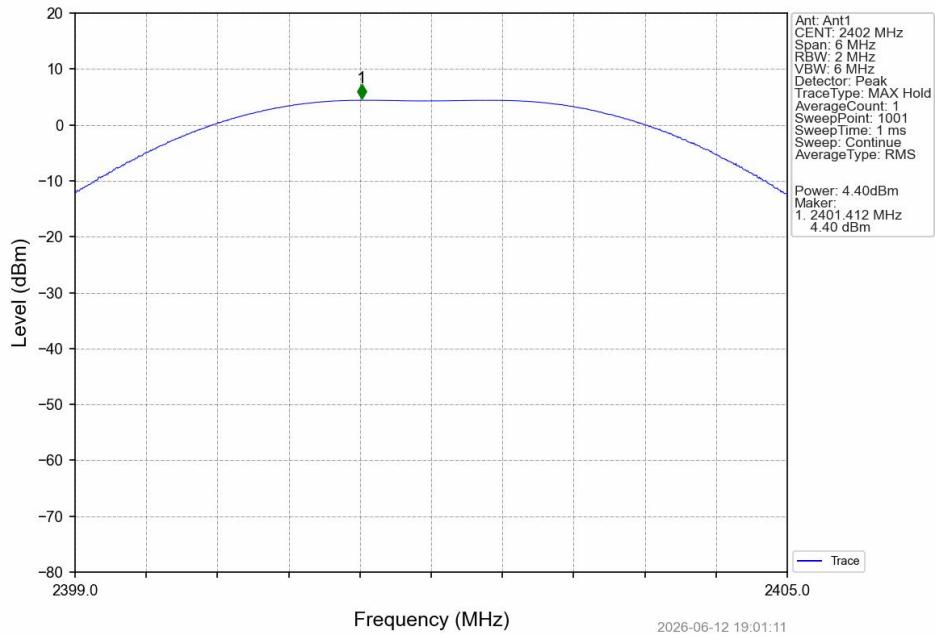




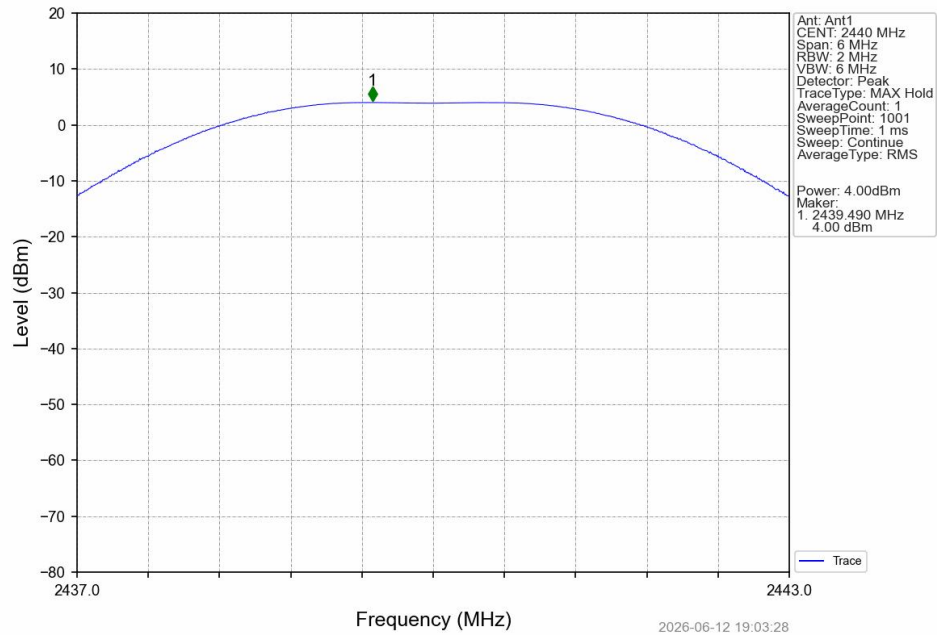
1M\_HCH\_2480MHz\_Ant1\_NTNV



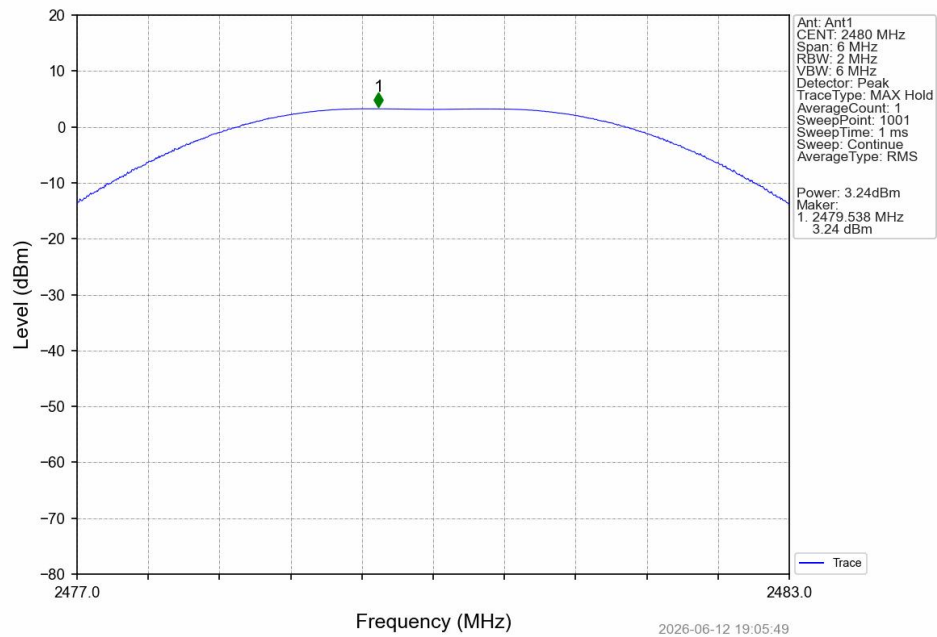
2M\_LCH\_2402MHz\_Ant1\_NTNV



2M\_MCH\_2440MHz\_Ant1\_NTNV



2M\_HCH\_2480MHz\_Ant1\_NTNV





## 4. Maximum Power Spectral Density

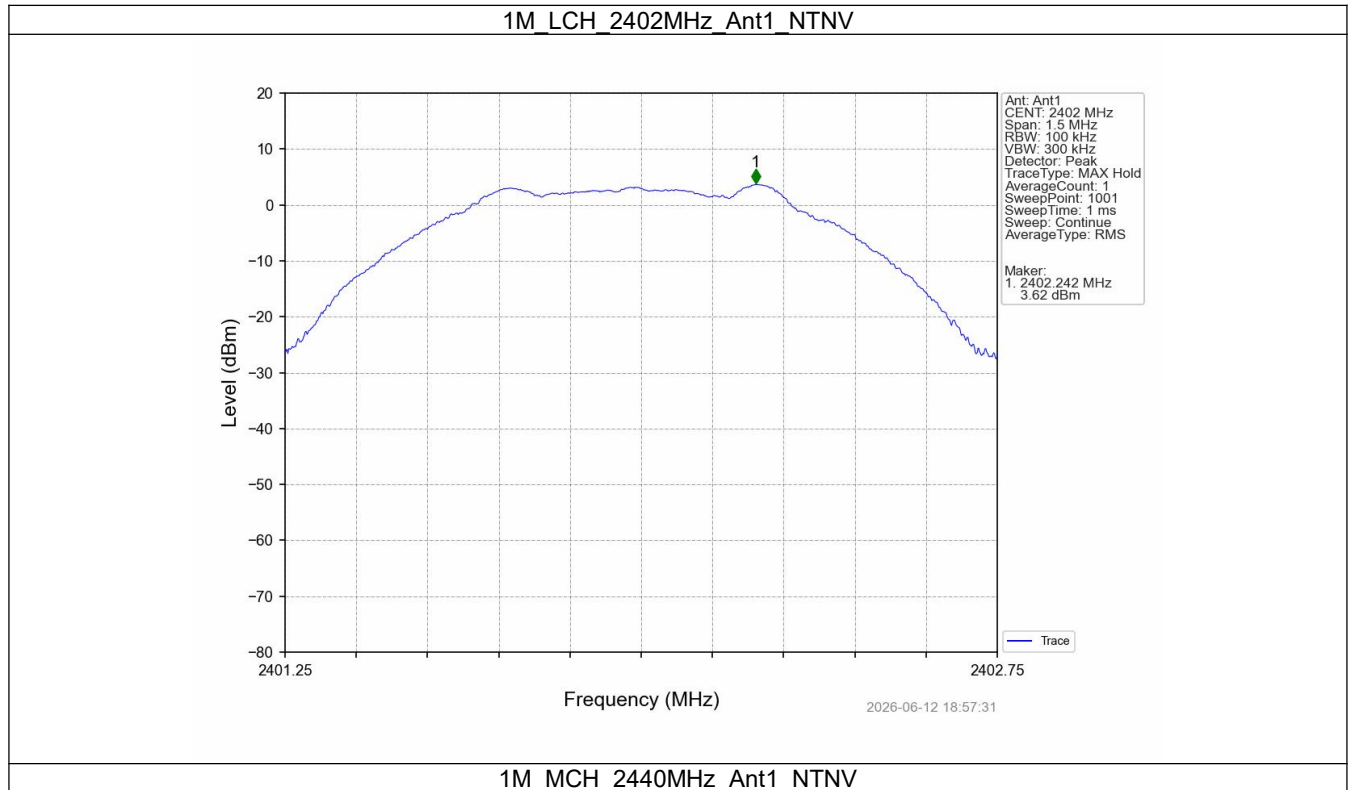
### 4.1 Test Result

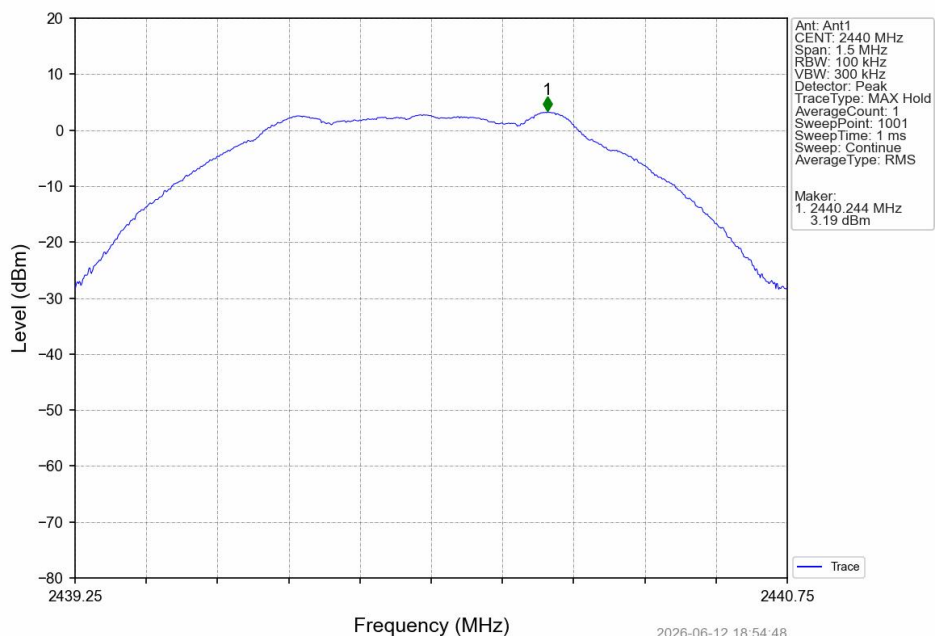
#### 4.1.1 PSD

| Mode                                | TX Type | Frequency (MHz) | Maximum PSD (dBm) |                 | Verdict |
|-------------------------------------|---------|-----------------|-------------------|-----------------|---------|
|                                     |         |                 | ANT1              | Limit(dBm/3kHz) |         |
| 1M                                  | SISO    | 2402            | 3.62dBm/100kHz    | <=8             | Pass    |
|                                     |         | 2440            | 3.19dBm/100kHz    | <=8             | Pass    |
|                                     |         | 2480            | 2.44dBm/100kHz    | <=8             | Pass    |
| 2M                                  | SISO    | 2402            | 1.19dBm/100kHz    | <=8             | Pass    |
|                                     |         | 2440            | 0.82dBm/100kHz    | <=8             | Pass    |
|                                     |         | 2480            | 0.25dBm/100kHz    | <=8             | Pass    |
| Note1: Antenna Gain: Ant1: 0.00dBi; |         |                 |                   |                 |         |

## 4.2 Test Graph

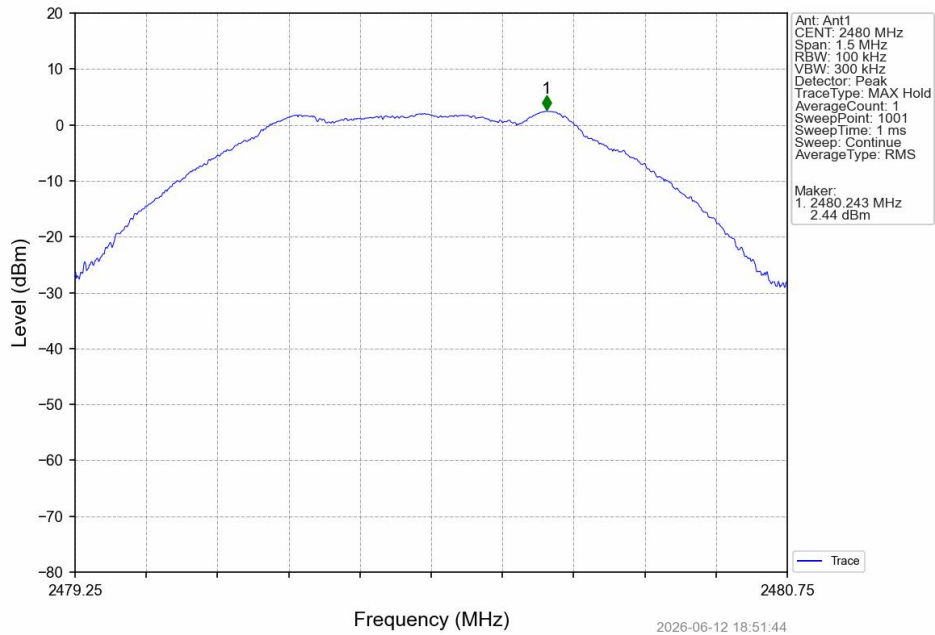
### 4.2.1 PSD



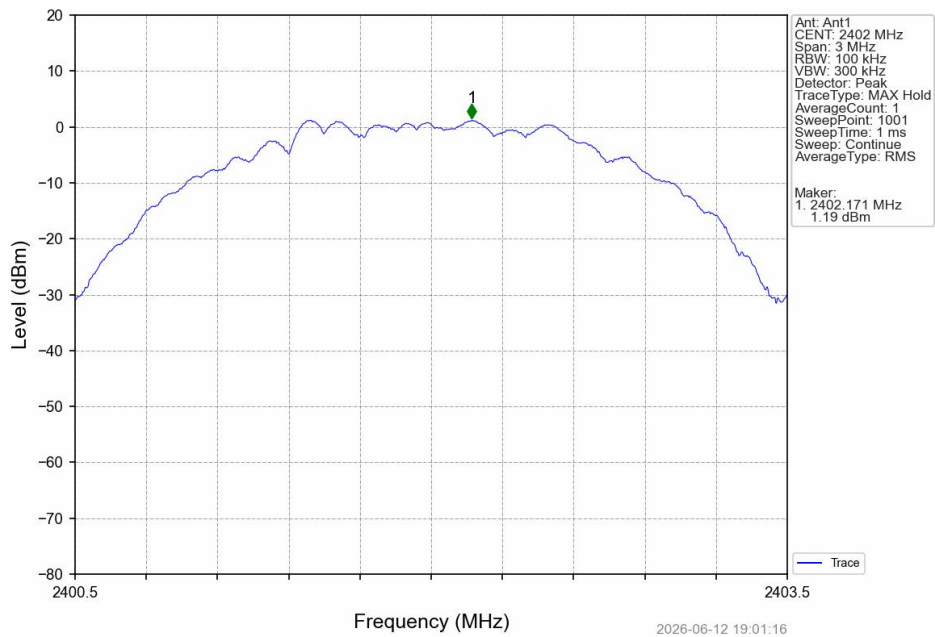


2026-06-12 18:54:48

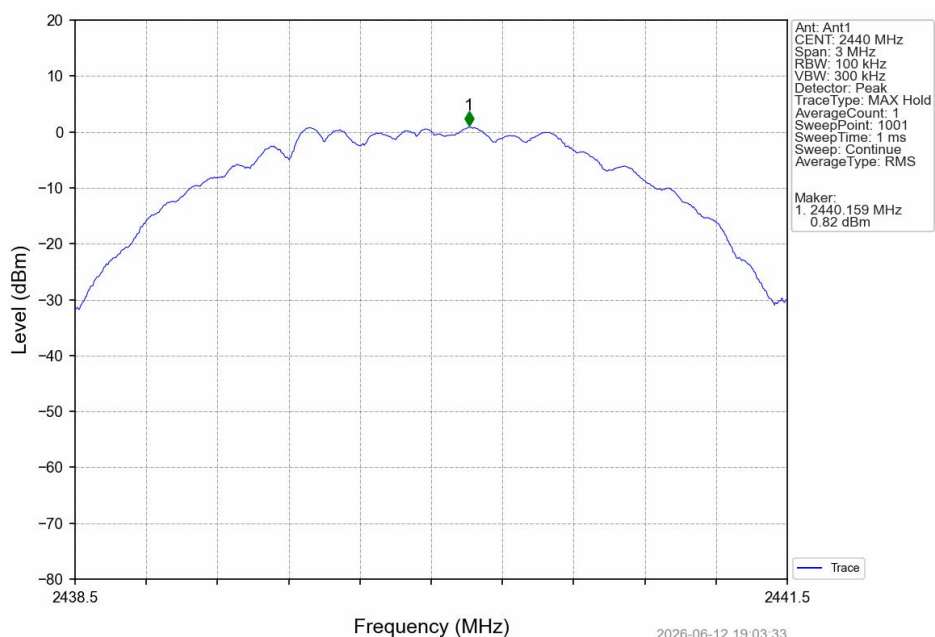
1M\_HCH\_2480MHz\_Ant1\_NTNV



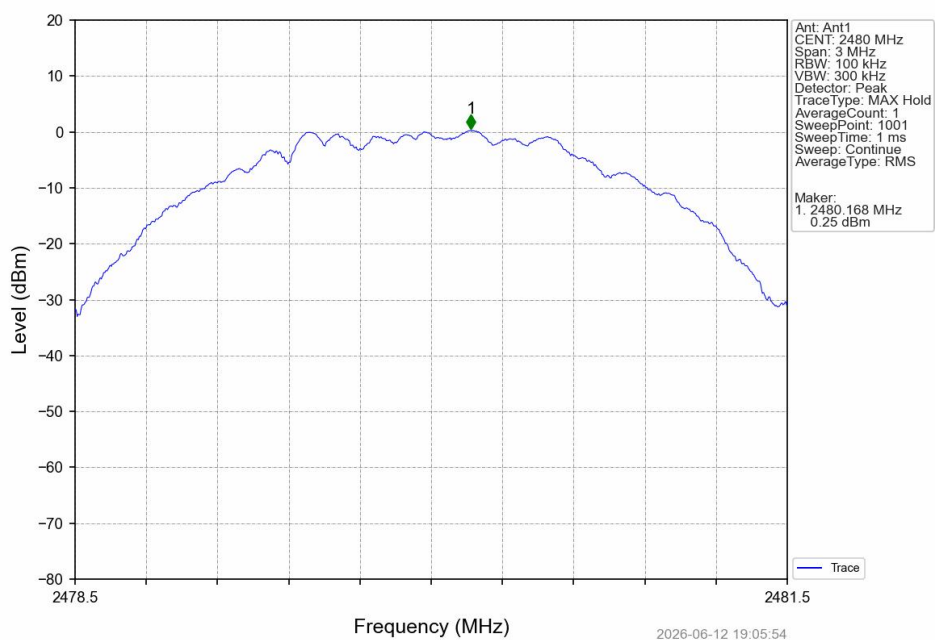
2M\_LCH\_2402MHz\_Ant1\_NTNV



2M\_MCH\_2440MHz\_Ant1\_NTNV



2M\_HCH\_2480MHz\_Ant1\_NTNV





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

### 5.1 Test Result

#### 5.1.1 Ref

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------|---------|-----------------|-----|--------------------------|
| 1M   | SISO    | 2402            | 1   | 3.60                     |
|      |         | 2440            | 1   | 3.19                     |
|      |         | 2480            | 1   | 2.42                     |
| 2M   | SISO    | 2402            | 1   | 1.18                     |
|      |         | 2440            | 1   | 0.86                     |
|      |         | 2480            | 1   | 0.32                     |

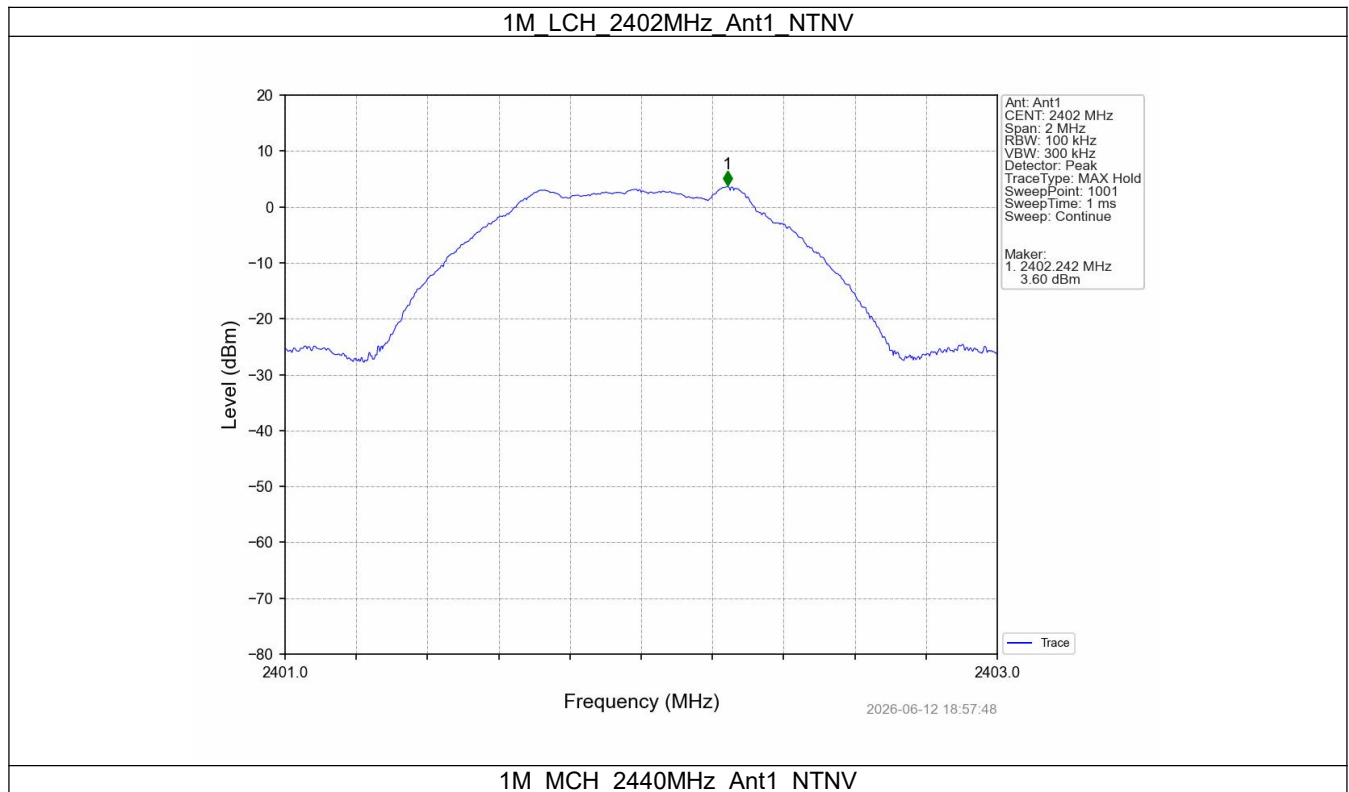
#### 5.1.2 CSE

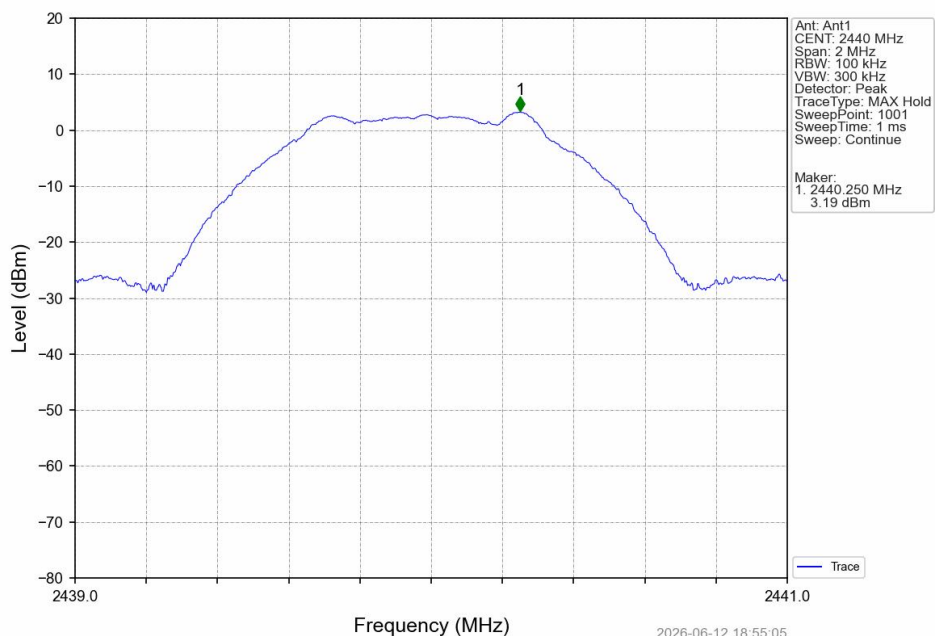
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M   | SISO    | 2402            | 1   | 3.60                     | -16.40      | Pass    |
|      |         | 2440            | 1   | 3.60                     | -16.40      | Pass    |
|      |         | 2480            | 1   | 3.60                     | -16.40      | Pass    |
| 2M   | SISO    | 2402            | 1   | 1.18                     | -18.82      | Pass    |
|      |         | 2440            | 1   | 1.18                     | -18.82      | Pass    |
|      |         | 2480            | 1   | 1.18                     | -18.82      | Pass    |



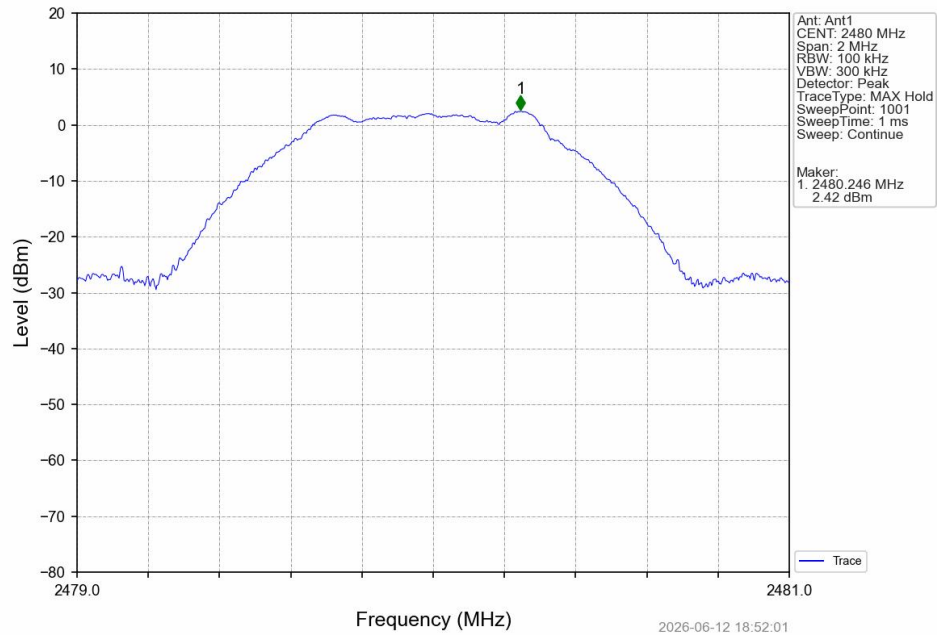
## 5.2 Test Graph

### 5.2.1 Ref

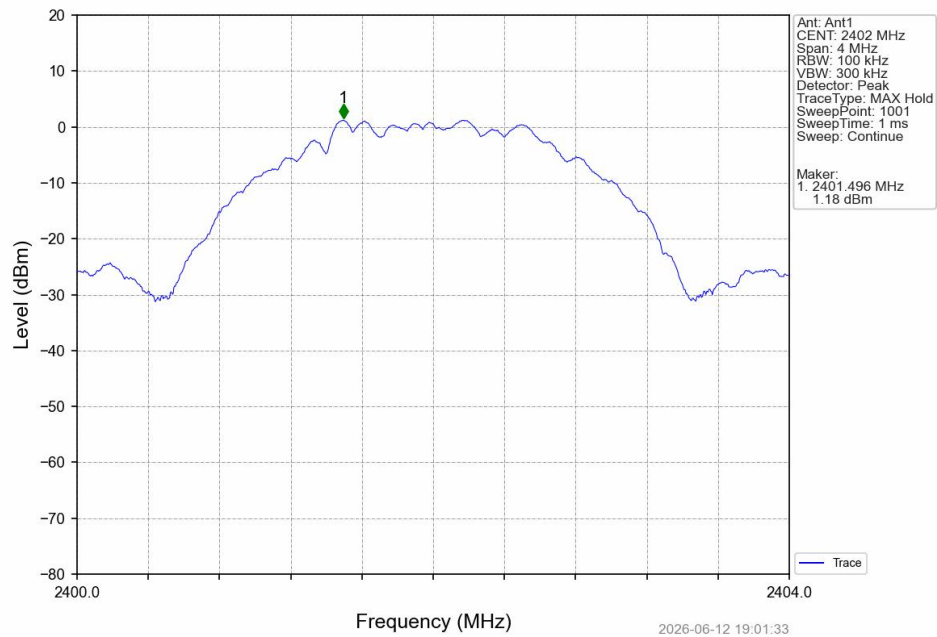




1M\_HCH\_2480MHz\_Ant1\_NTNV

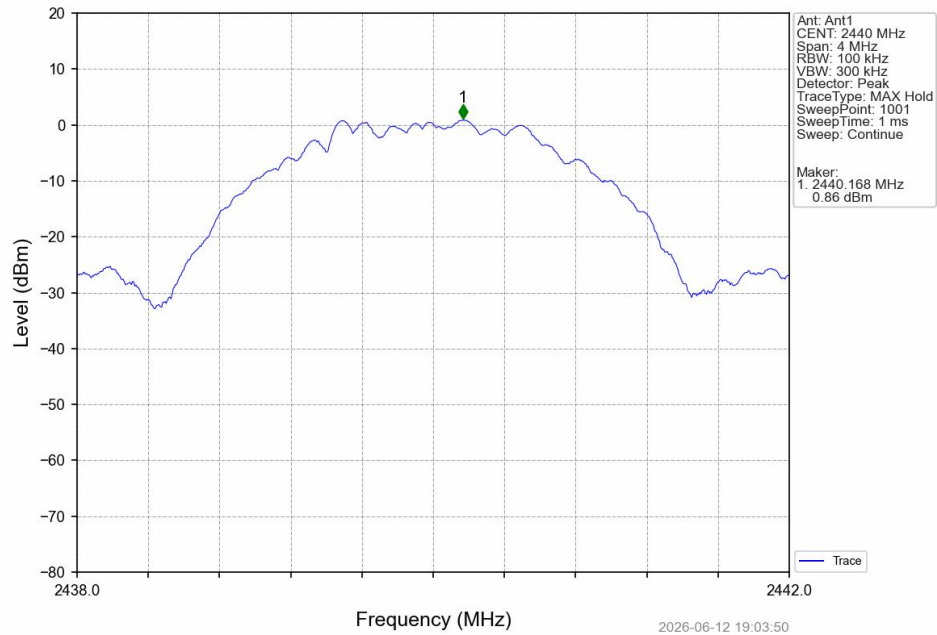


2M\_LCH\_2402MHz\_Ant1\_NTNV

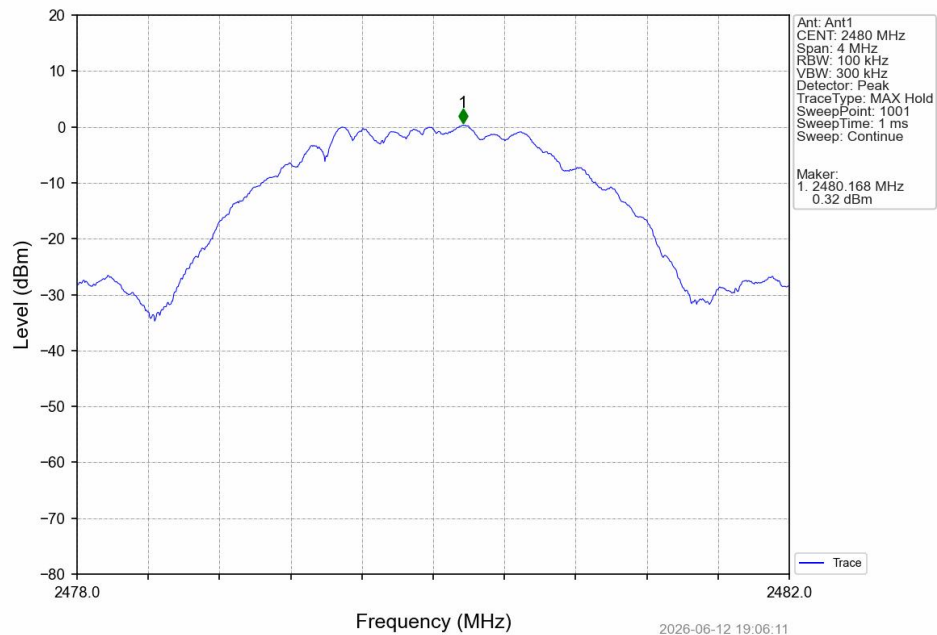




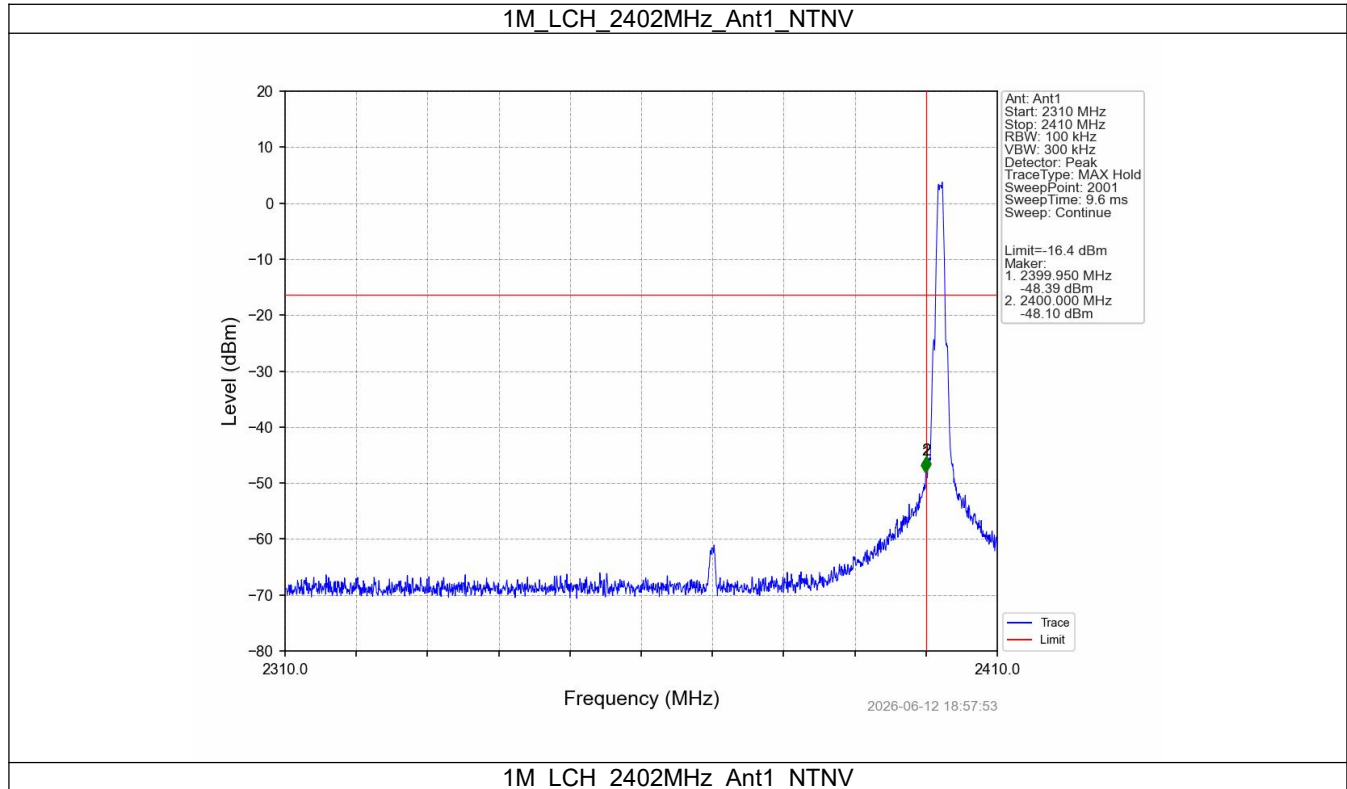
2M\_MCH\_2440MHz\_Ant1\_NTNV

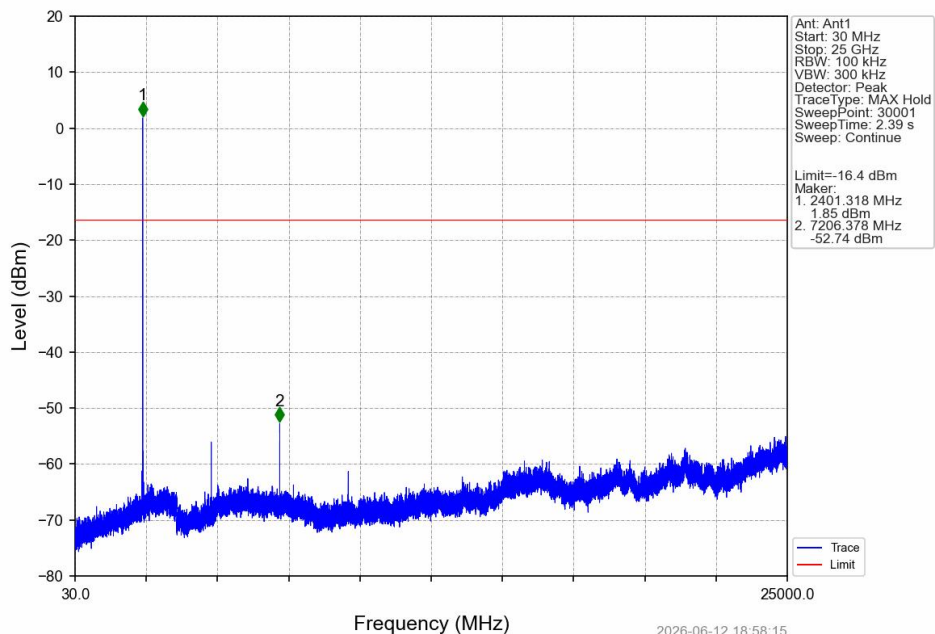


2M\_HCH\_2480MHz\_Ant1\_NTNV

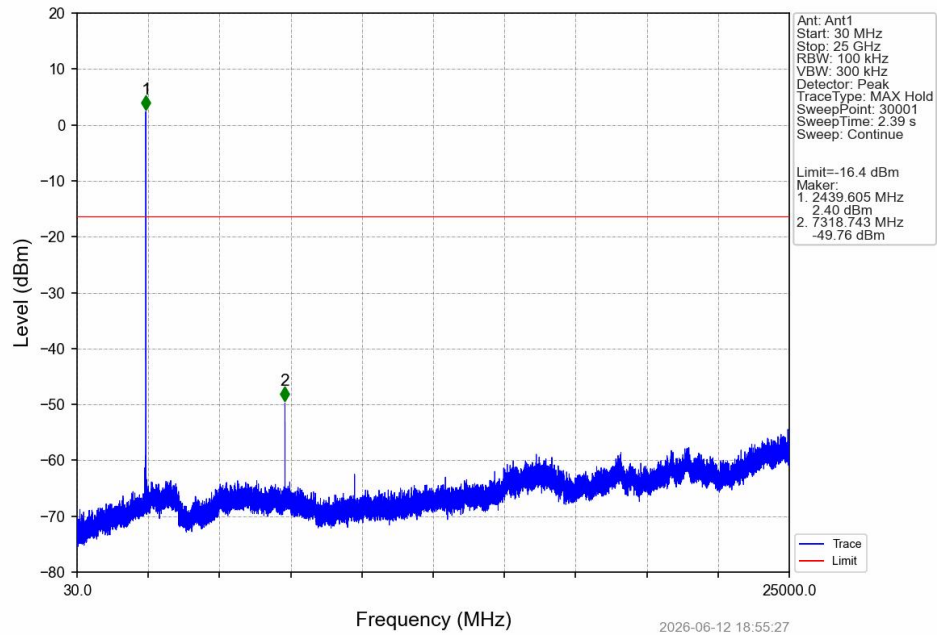


### 5.2.2 CSE

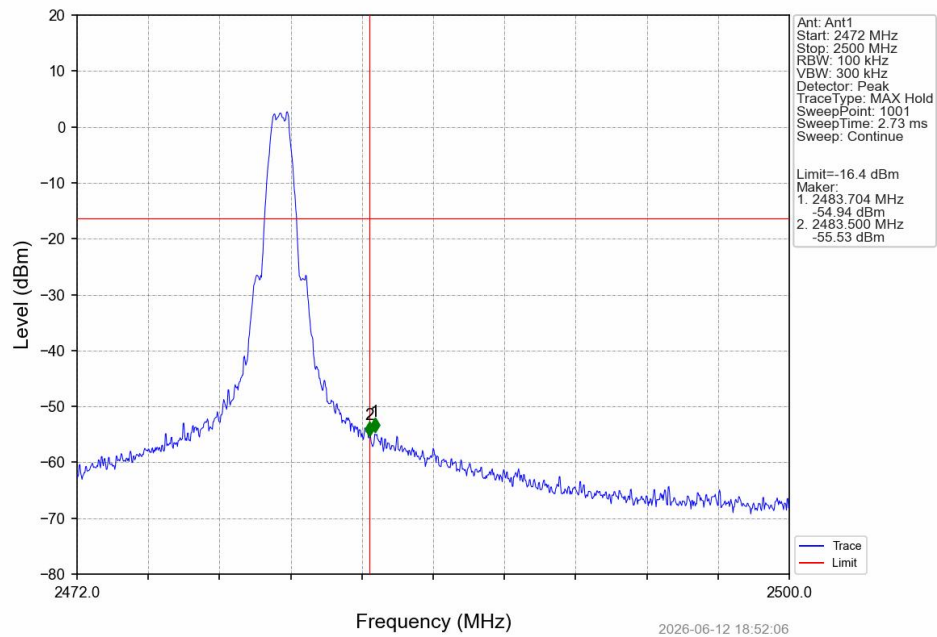




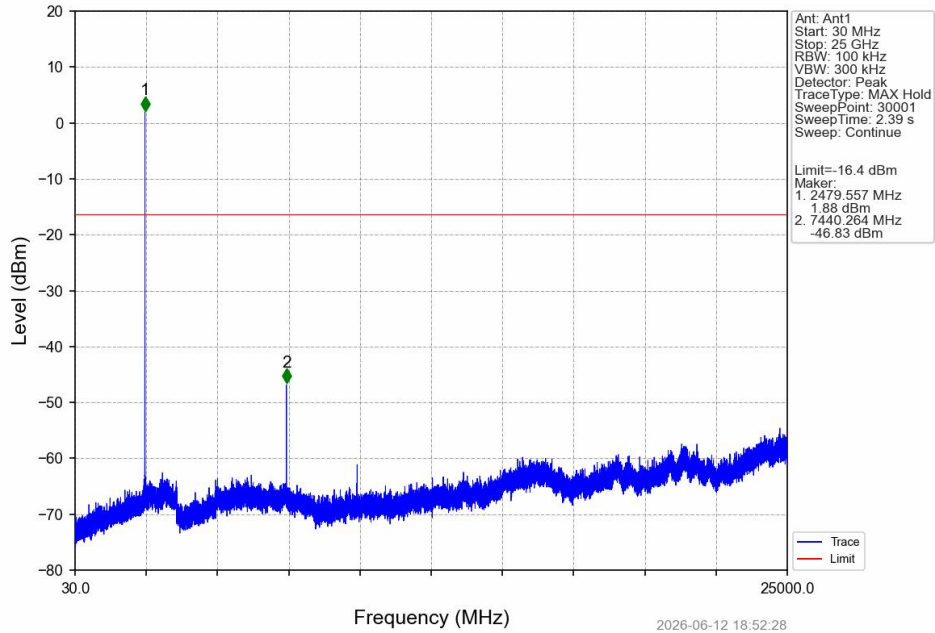
1M\_MCH\_2440MHz\_Ant1\_NTNV



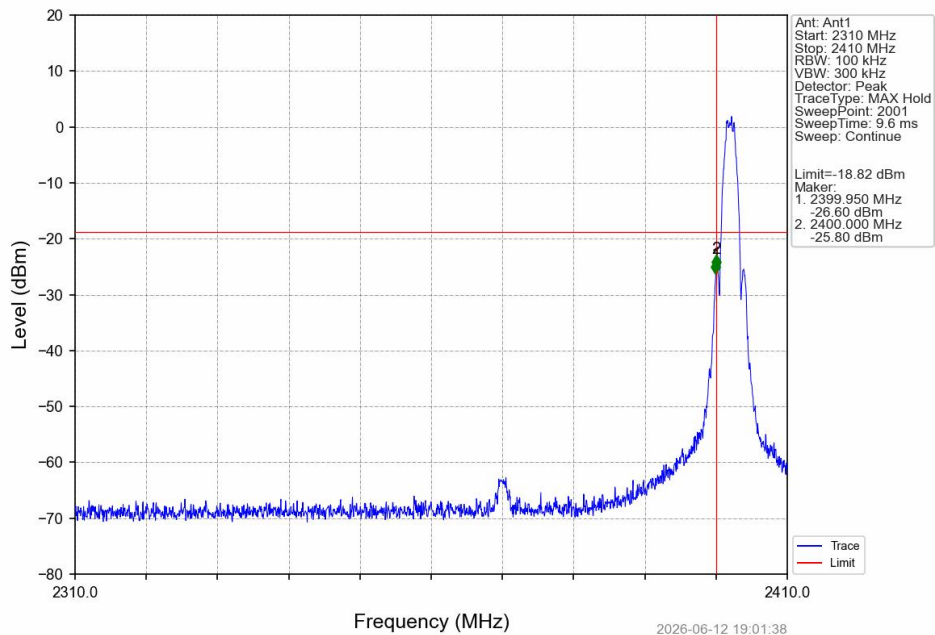
1M\_HCH\_2480MHz\_Ant1\_NTNV



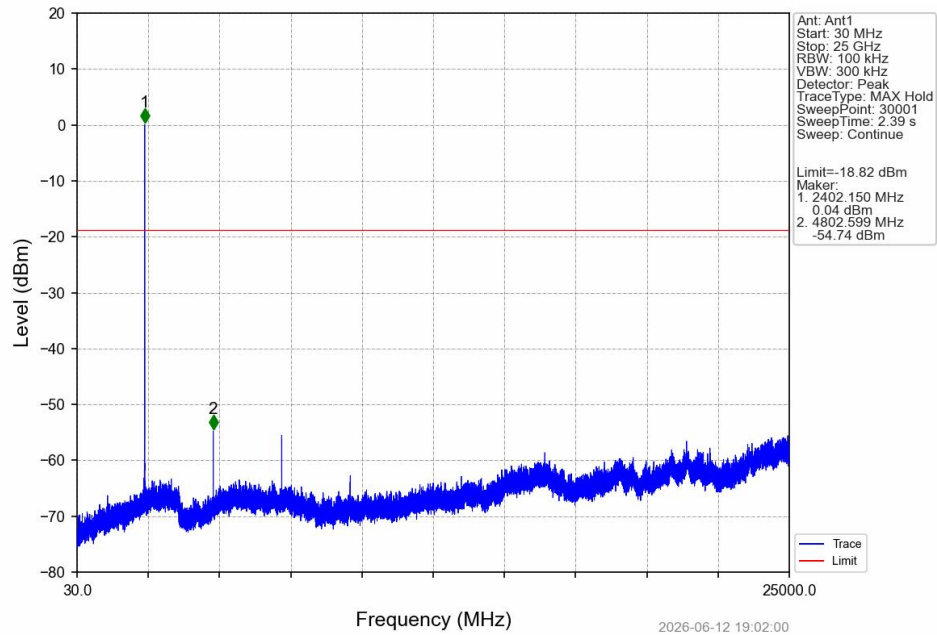
1M\_HCH\_2480MHz\_Ant1\_NTNV



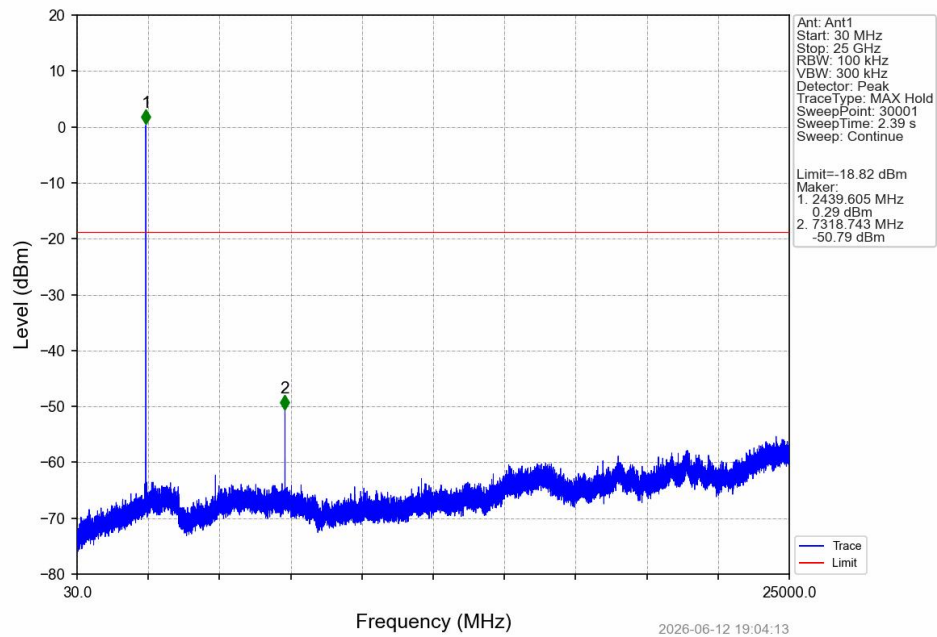
2M\_LCH\_2402MHz\_Ant1\_NTNV



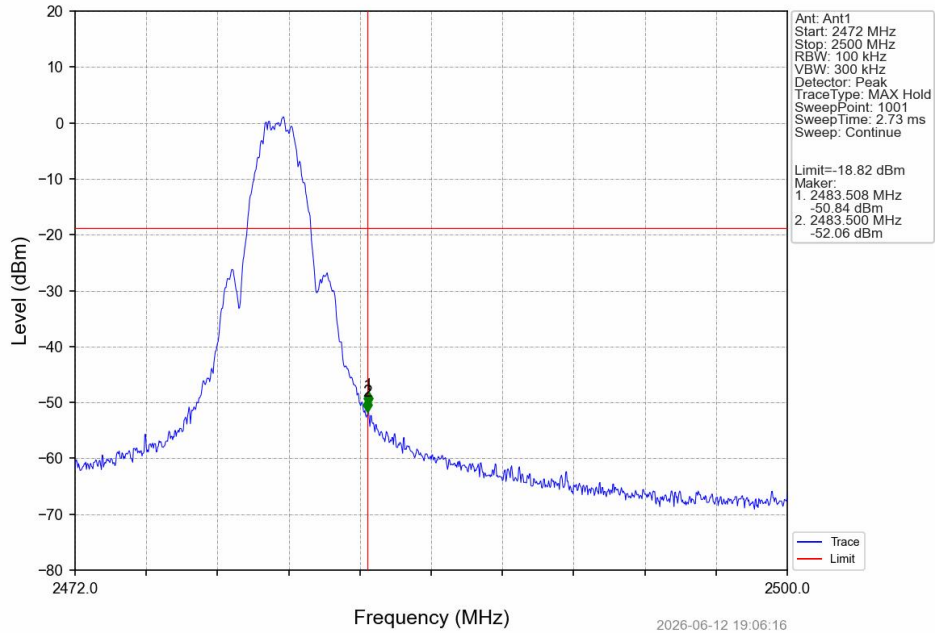
2M\_LCH\_2402MHz\_Ant1\_NTNV



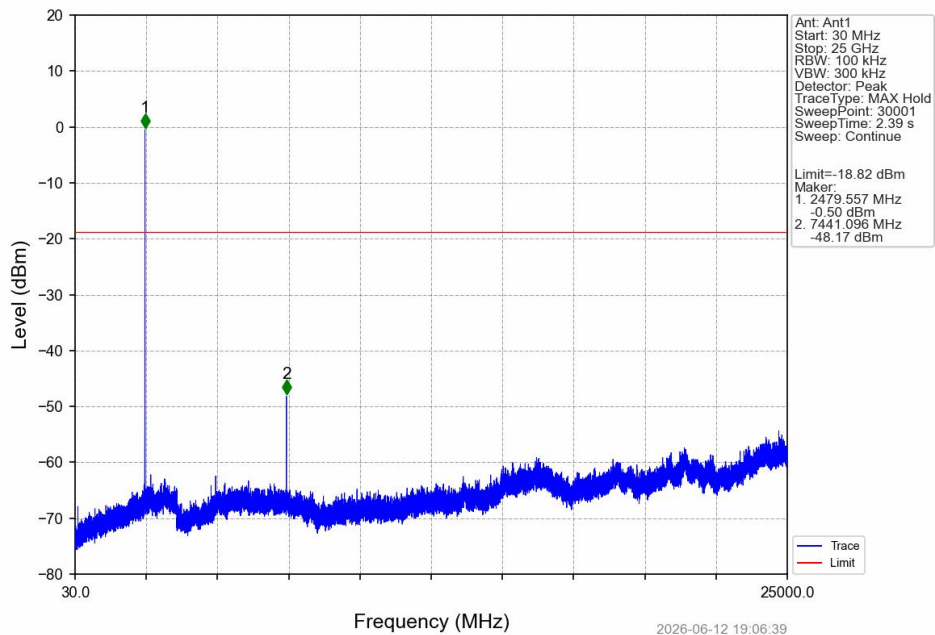
2M\_MCH\_2440MHz\_Ant1\_NTNV



2M\_HCH\_2480MHz\_Ant1\_NTNV



2M\_HCH\_2480MHz\_Ant1\_NTNV





## 6. Unwanted Emissions In Restricted Frequency Bands

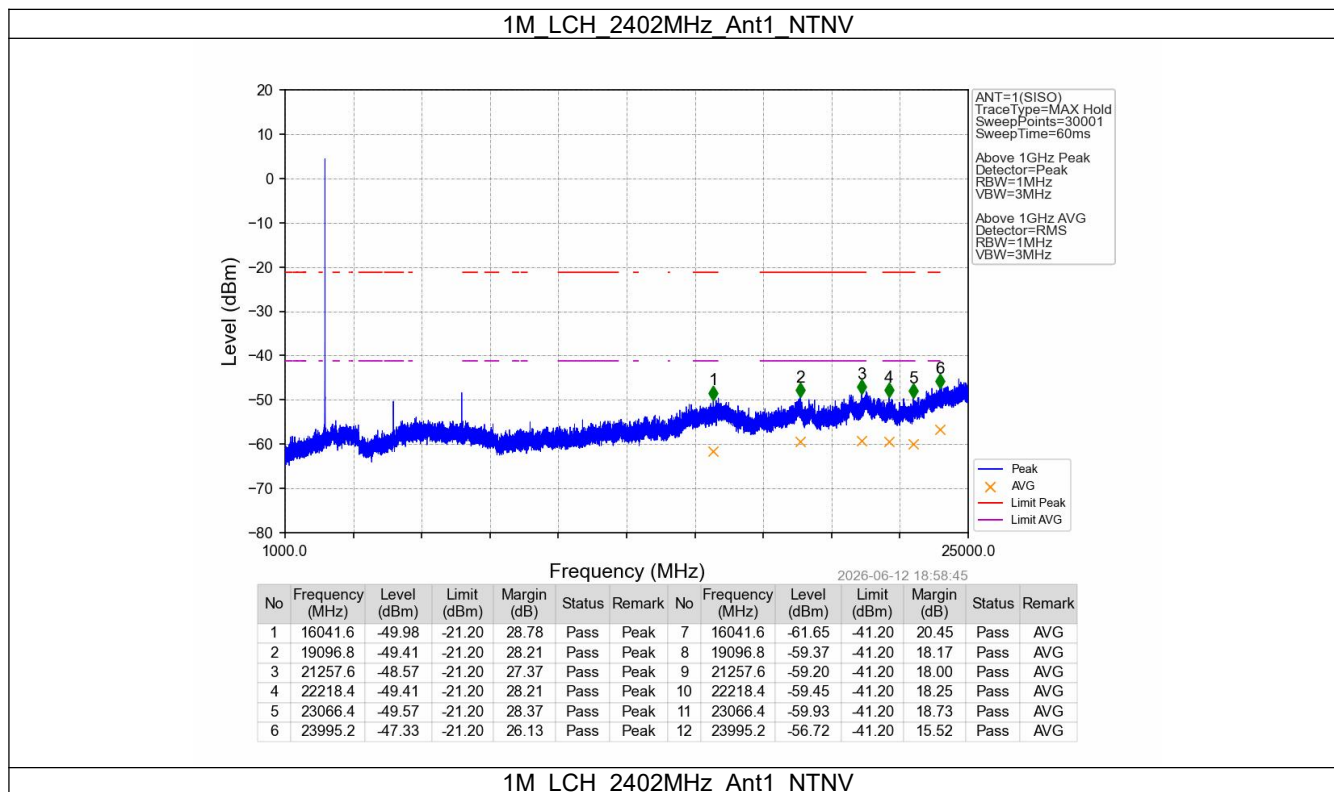
### 6.1 Test Result

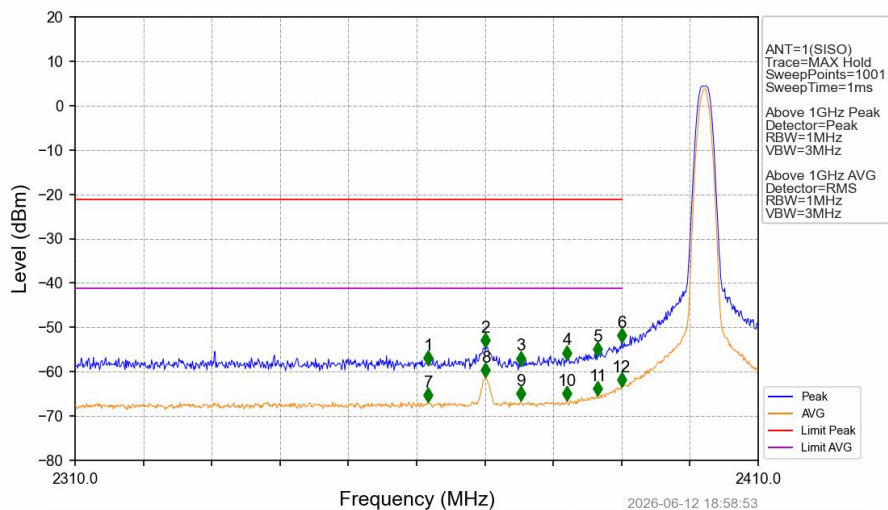
#### 6.1.1 RSE

| Mode | TX Type | Frequency (MHz) | ANT | Level of Unwanted Emissions (dBm) |       | Verdict |
|------|---------|-----------------|-----|-----------------------------------|-------|---------|
|      |         |                 |     | Result                            | Limit |         |
| 1M   | SISO    | 2402            | 1   | Refer To Test Graph               |       | Pass    |
|      |         | 2440            | 1   | Refer To Test Graph               |       | Pass    |
|      |         | 2480            | 1   | Refer To Test Graph               |       | Pass    |
| 2M   | SISO    | 2402            | 1   | Refer To Test Graph               |       | Pass    |
|      |         | 2440            | 1   | Refer To Test Graph               |       | Pass    |
|      |         | 2480            | 1   | Refer To Test Graph               |       | Pass    |

## 6.2 Test Graph

### 6.2.1 RSE

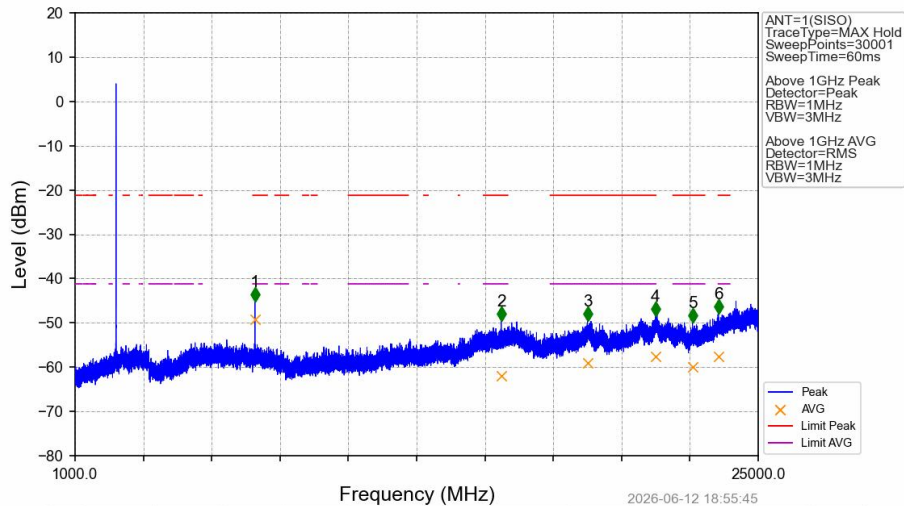




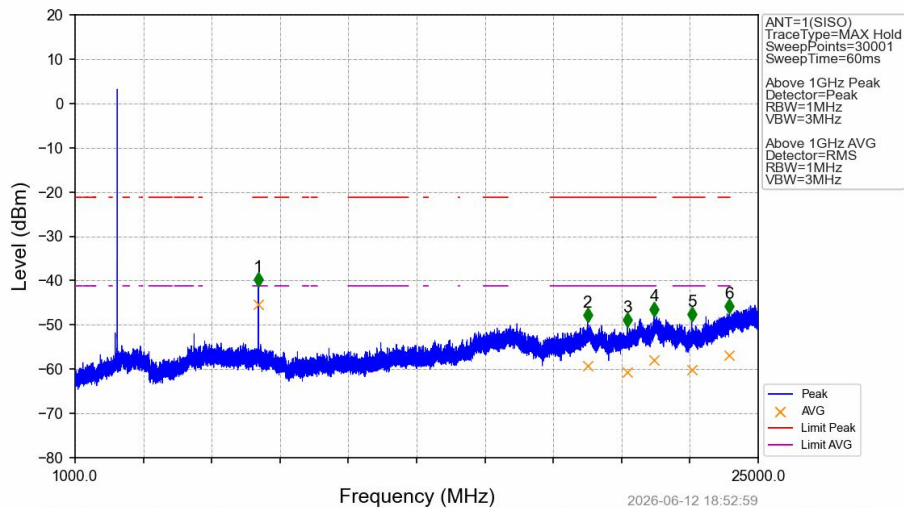
Frequency (MHz) 2026-06-12 18:58:53

| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 2361.700        | -58.53      | -21.20      | 37.33       | Pass   | Peak   | 7  | 2361.700        | -66.84      | -41.20      | 25.64       | Pass   | AVG    |
| 2  | 2370.100        | -54.47      | -21.20      | 33.27       | Pass   | Peak   | 8  | 2370.100        | -61.24      | -41.20      | 20.04       | Pass   | AVG    |
| 3  | 2375.200        | -58.55      | -21.20      | 37.35       | Pass   | Peak   | 9  | 2375.200        | -66.49      | -41.20      | 25.29       | Pass   | AVG    |
| 4  | 2382.000        | -57.27      | -21.20      | 36.07       | Pass   | Peak   | 10 | 2382.000        | -66.40      | -41.20      | 25.20       | Pass   | AVG    |
| 5  | 2386.500        | -56.40      | -21.20      | 35.20       | Pass   | Peak   | 11 | 2386.500        | -65.38      | -41.20      | 24.18       | Pass   | AVG    |
| 6  | 2390.000        | -53.31      | -21.20      | 32.11       | Pass   | Peak   | 12 | 2390.000        | -63.29      | -41.20      | 22.09       | Pass   | AVG    |

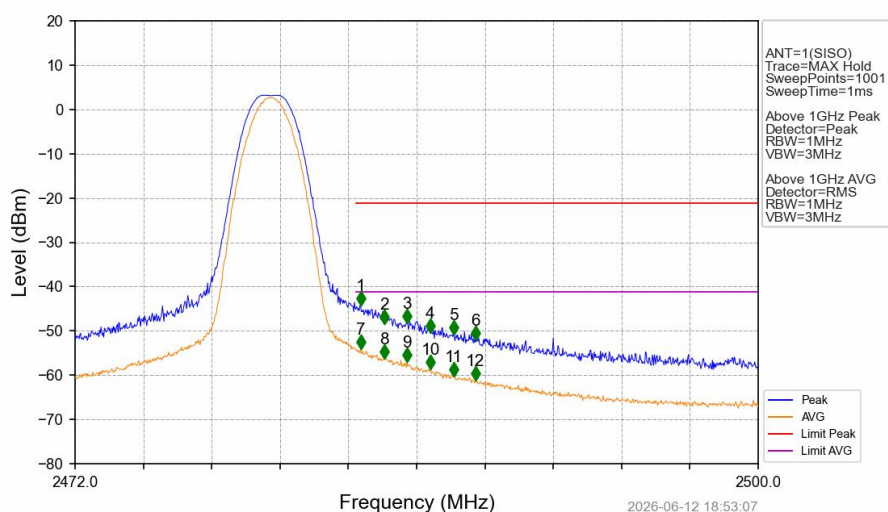
## 1M\_MCH\_2440MHz\_Ant1\_NTNV



## 1M\_HCH\_2480MHz\_Ant1\_NTNV

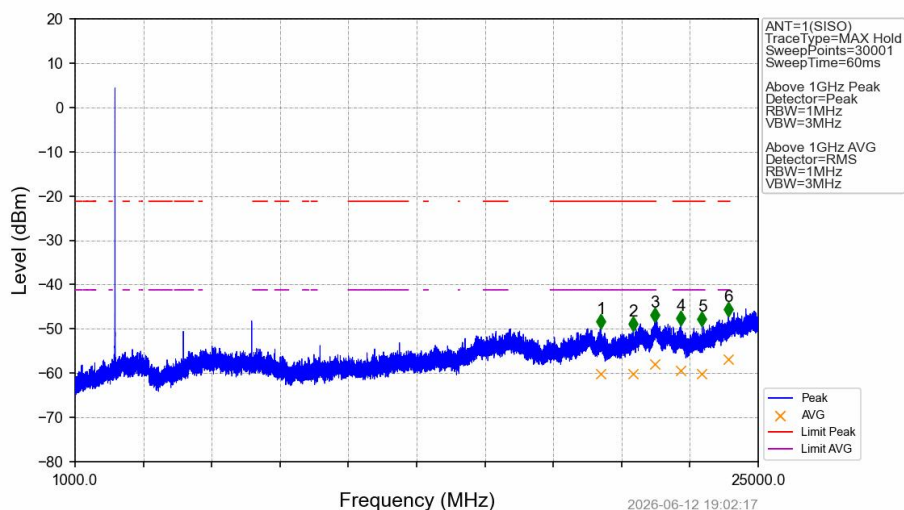


## 1M\_HCH\_2480MHz\_Ant1\_NTNV



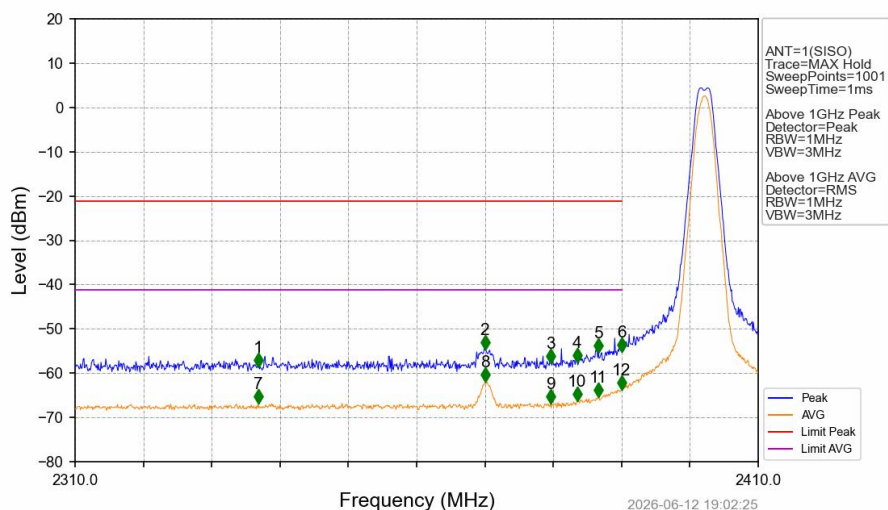
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 2483.704        | -44.25      | -21.20      | 23.05       | Pass   | Peak   | 7  | 2483.704        | -54.16      | -41.20      | 12.96       | Pass   | AVG    |
| 2  | 2484.684        | -48.48      | -21.20      | 27.28       | Pass   | Peak   | 8  | 2484.684        | -56.28      | -41.20      | 15.08       | Pass   | AVG    |
| 3  | 2485.608        | -48.17      | -21.20      | 26.97       | Pass   | Peak   | 9  | 2485.608        | -57.03      | -41.20      | 15.83       | Pass   | AVG    |
| 4  | 2486.560        | -50.42      | -21.20      | 29.22       | Pass   | Peak   | 10 | 2486.560        | -58.70      | -41.20      | 17.50       | Pass   | AVG    |
| 5  | 2487.512        | -50.74      | -21.20      | 29.54       | Pass   | Peak   | 11 | 2487.512        | -60.20      | -41.20      | 19.00       | Pass   | AVG    |
| 6  | 2488.408        | -52.12      | -21.20      | 30.92       | Pass   | Peak   | 12 | 2488.408        | -61.14      | -41.20      | 19.94       | Pass   | AVG    |

## 2M\_LCH\_2402MHz\_Ant1\_NTNV

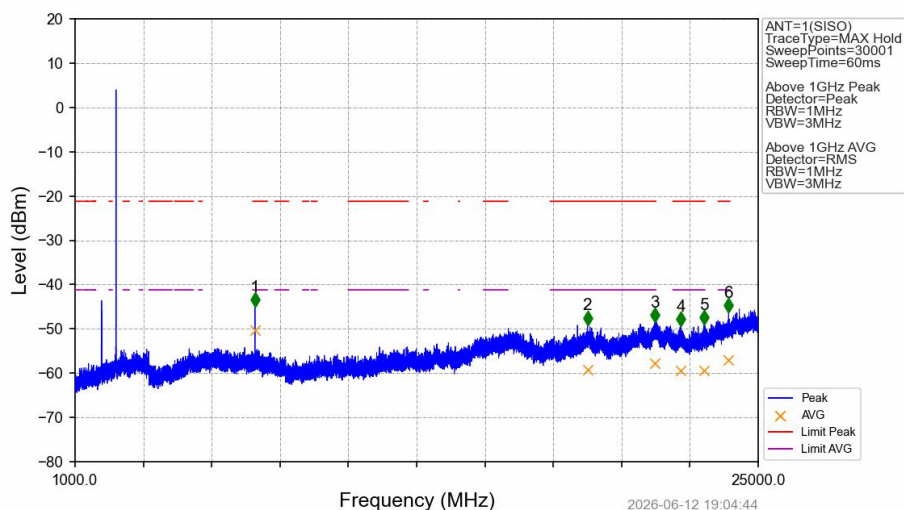


| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 19475.2         | -49.91      | -21.20      | 28.71       | Pass   | Peak   | 7  | 19475.2         | -60.15      | -41.20      | 18.95       | Pass   | AVG    |
| 2  | 20612.8         | -50.48      | -21.20      | 29.28       | Pass   | Peak   | 8  | 20612.8         | -60.15      | -41.20      | 18.95       | Pass   | AVG    |
| 3  | 21368           | -48.48      | -21.20      | 27.28       | Pass   | Peak   | 9  | 21368           | -57.97      | -41.20      | 16.77       | Pass   | AVG    |
| 4  | 22280.8         | -49.11      | -21.20      | 27.91       | Pass   | Peak   | 10 | 22280.8         | -59.35      | -41.20      | 18.15       | Pass   | AVG    |
| 5  | 23027.2         | -49.40      | -21.20      | 28.20       | Pass   | Peak   | 11 | 23027.2         | -60.18      | -41.20      | 18.98       | Pass   | AVG    |
| 6  | 23952.8         | -47.19      | -21.20      | 25.99       | Pass   | Peak   | 12 | 23952.8         | -56.92      | -41.20      | 15.72       | Pass   | AVG    |

## 2M\_LCH\_2402MHz\_Ant1\_NTNV

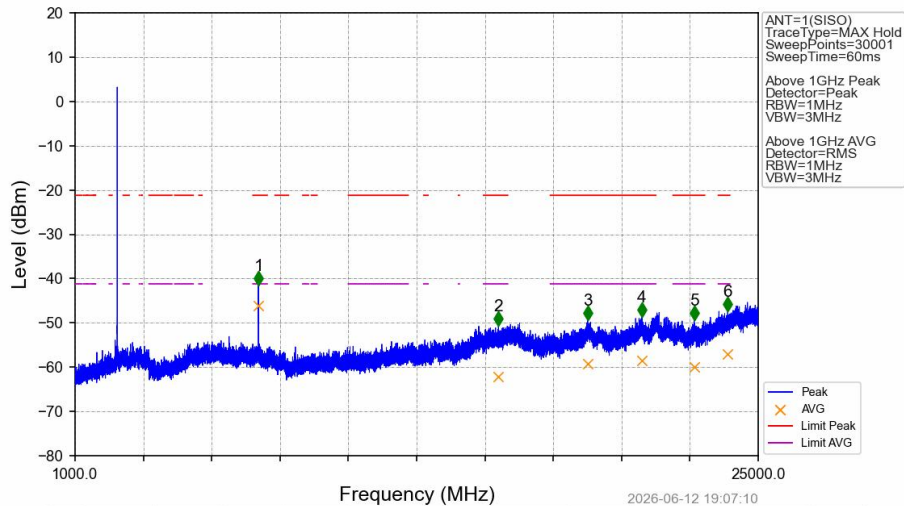


## 2M\_MCH\_2440MHz\_Ant1\_NTNV



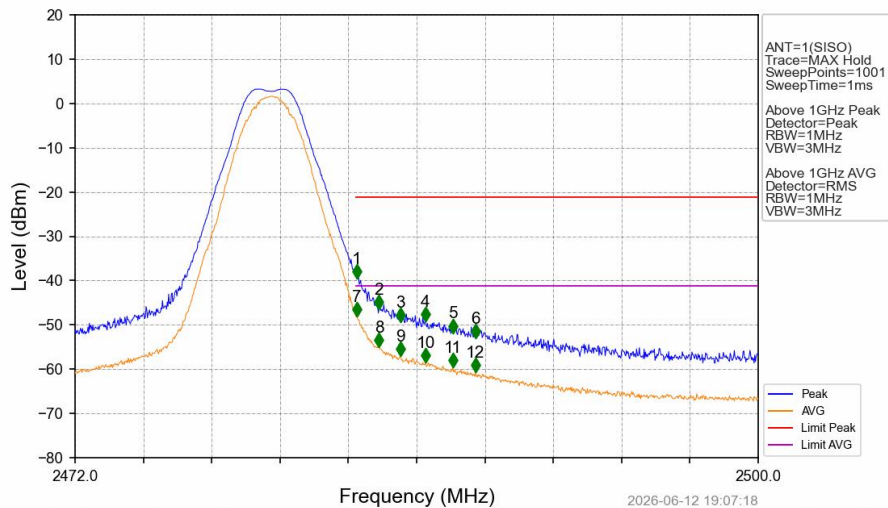


## 2M\_HCH\_2480MHz\_Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 7441.6          | -41.47      | -21.20      | 20.27       | Pass   | Peak   | 7  | 7441.6          | -46.05      | -41.20      | 4.85        | Pass   | AVG    |
| 2  | 15874.4         | -50.61      | -21.20      | 29.41       | Pass   | Peak   | 8  | 15874.4         | -62.11      | -41.20      | 20.91       | Pass   | AVG    |
| 3  | 19009.6         | -49.34      | -21.20      | 28.14       | Pass   | Peak   | 9  | 19009.6         | -59.18      | -41.20      | 17.98       | Pass   | AVG    |
| 4  | 20915.2         | -48.67      | -21.20      | 27.47       | Pass   | Peak   | 10 | 20915.2         | -58.53      | -41.20      | 17.33       | Pass   | AVG    |
| 5  | 22750.4         | -49.39      | -21.20      | 28.19       | Pass   | Peak   | 11 | 22750.4         | -59.89      | -41.20      | 18.69       | Pass   | AVG    |
| 6  | 23928           | -47.28      | -21.20      | 26.08       | Pass   | Peak   | 12 | 23928           | -56.99      | -41.20      | 15.79       | Pass   | AVG    |

## 2M\_HCH\_2480MHz\_Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 2483.536        | -39.56      | -21.20      | 18.36       | Pass   | Peak   | 7  | 2483.536        | -48.12      | -41.20      | 6.92        | Pass   | AVG    |
| 2  | 2484.460        | -46.37      | -21.20      | 25.17       | Pass   | Peak   | 8  | 2484.460        | -54.97      | -41.20      | 13.77       | Pass   | AVG    |
| 3  | 2485.328        | -49.27      | -21.20      | 28.07       | Pass   | Peak   | 9  | 2485.328        | -56.96      | -41.20      | 15.76       | Pass   | AVG    |
| 4  | 2486.364        | -49.11      | -21.20      | 27.91       | Pass   | Peak   | 10 | 2486.364        | -58.40      | -41.20      | 17.20       | Pass   | AVG    |
| 5  | 2487.484        | -51.80      | -21.20      | 30.60       | Pass   | Peak   | 11 | 2487.484        | -59.58      | -41.20      | 18.38       | Pass   | AVG    |
| 6  | 2488.408        | -52.99      | -21.20      | 31.79       | Pass   | Peak   | 12 | 2488.408        | -60.68      | -41.20      | 19.48       | Pass   | AVG    |