

## **Appendix RF Test Data for BLE**

**Company:** : Huizhou Shengbaoluo Maternal And Child Products Co., Ltd.

**EUT** : Baby swing bed

**FCC ID:** : 2BUFP-S-C901

**Model Number** : S-C901

**Report No.** : HTT2025121034F01

**Reviewed By** : Heber He

## 1. Duty Cycle

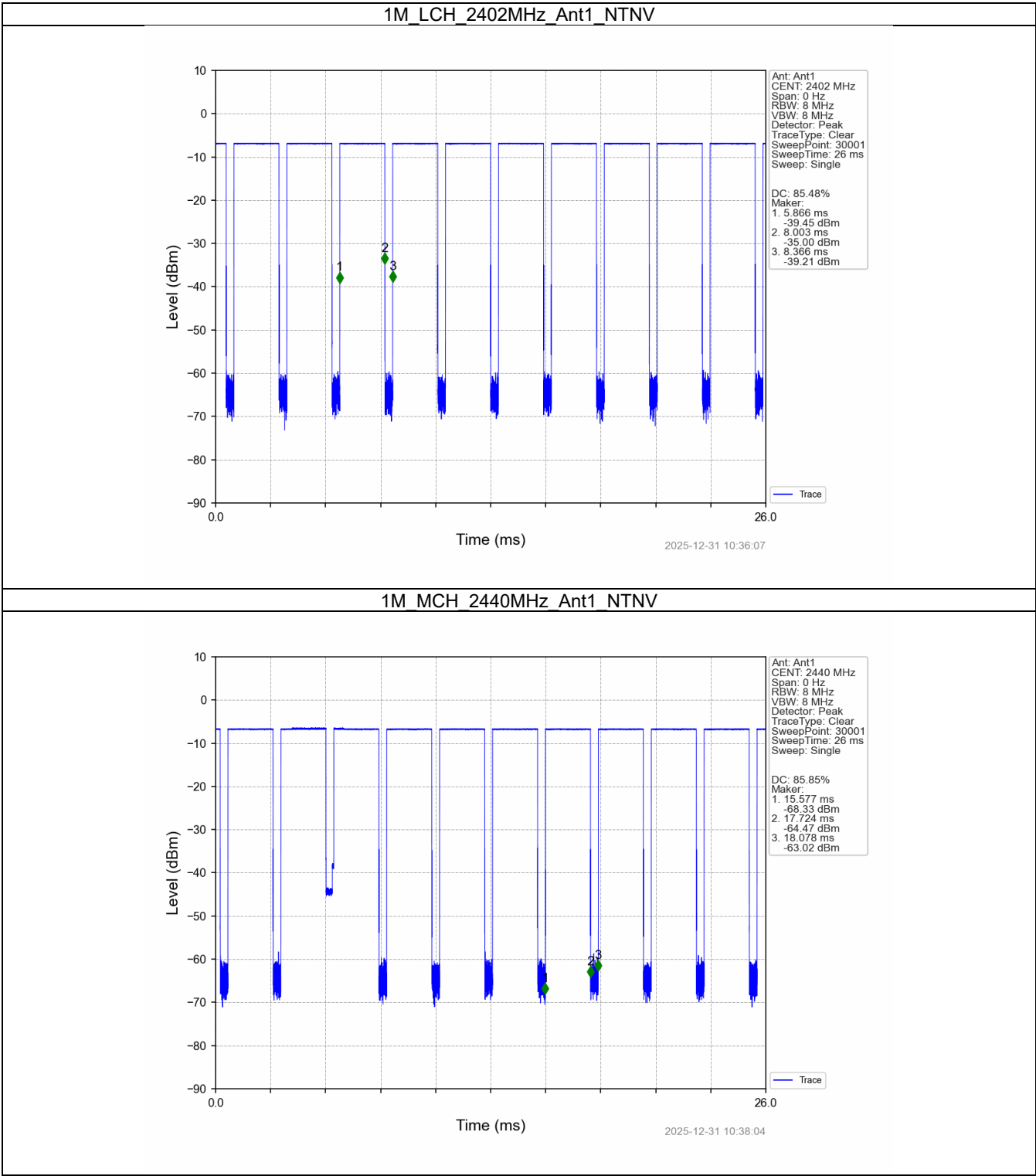
### 1.1 Test Result

#### 1.1.1 Ant1

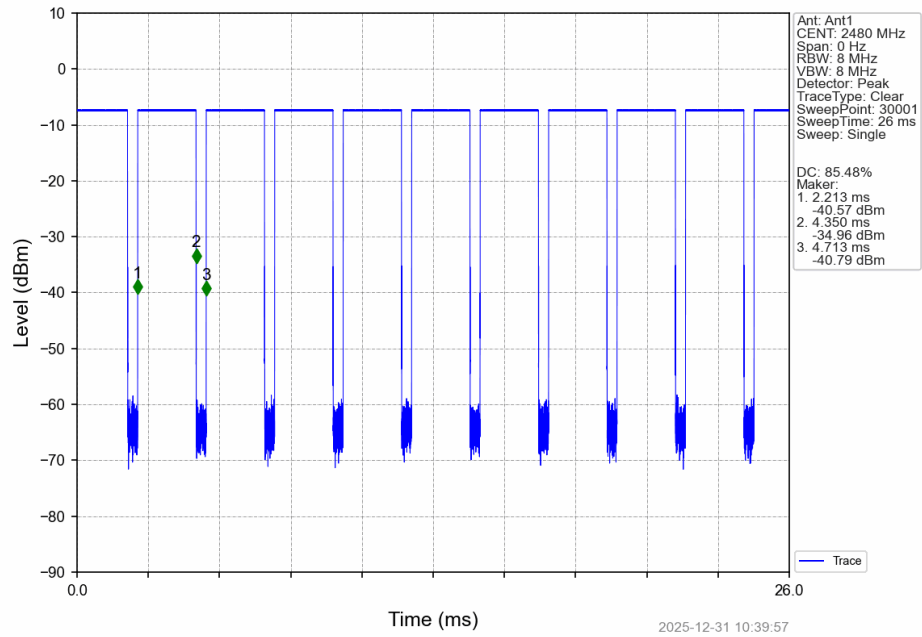
| Ant1 |         |                 |           |             |                |                                   |                       |
|------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 1M   | SISO    | 2402            | 2.137     | 2.500       | 85.48          | 0.68                              | 0.03                  |
|      |         | 2440            | 2.147     | 2.501       | 85.85          | 0.66                              | 7.07                  |
|      |         | 2480            | 2.137     | 2.500       | 85.48          | 0.68                              | 0.03                  |
| 2M   | SISO    | 2402            | 1.076     | 2.500       | 43.04          | 3.66                              | 0.03                  |
|      |         | 2440            | 1.076     | 2.500       | 43.04          | 3.66                              | 0.03                  |
|      |         | 2480            | 1.076     | 2.500       | 43.04          | 3.66                              | 0.03                  |

# 1.2 Test Graph

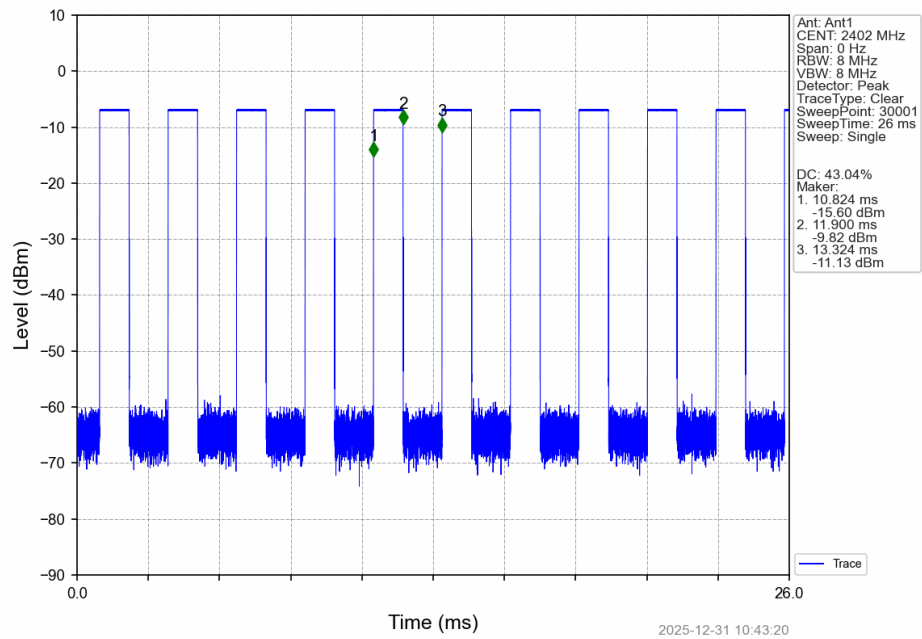
## 1.2.1 Ant1



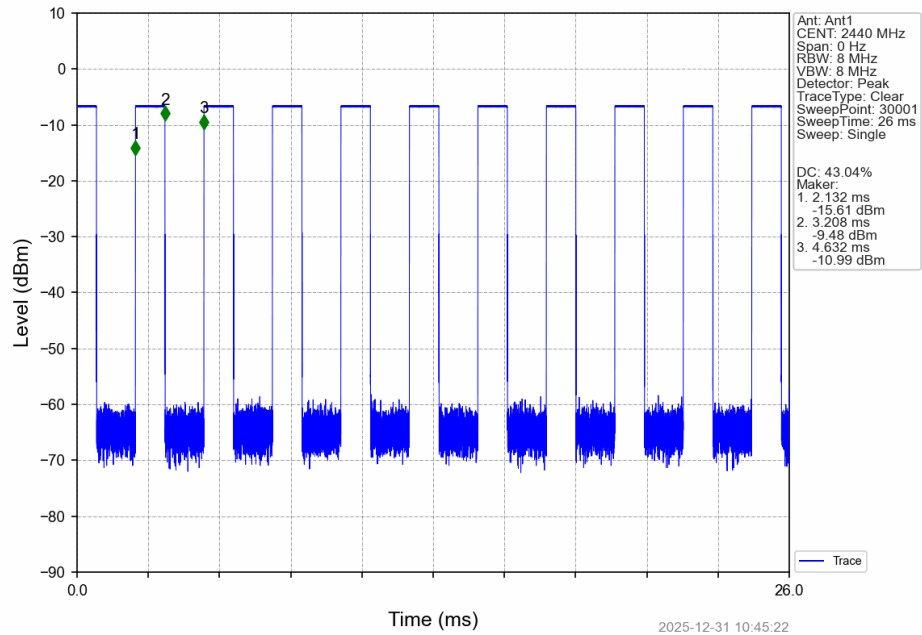
# 1M\_HCH\_2480MHz\_Ant1\_NTNV



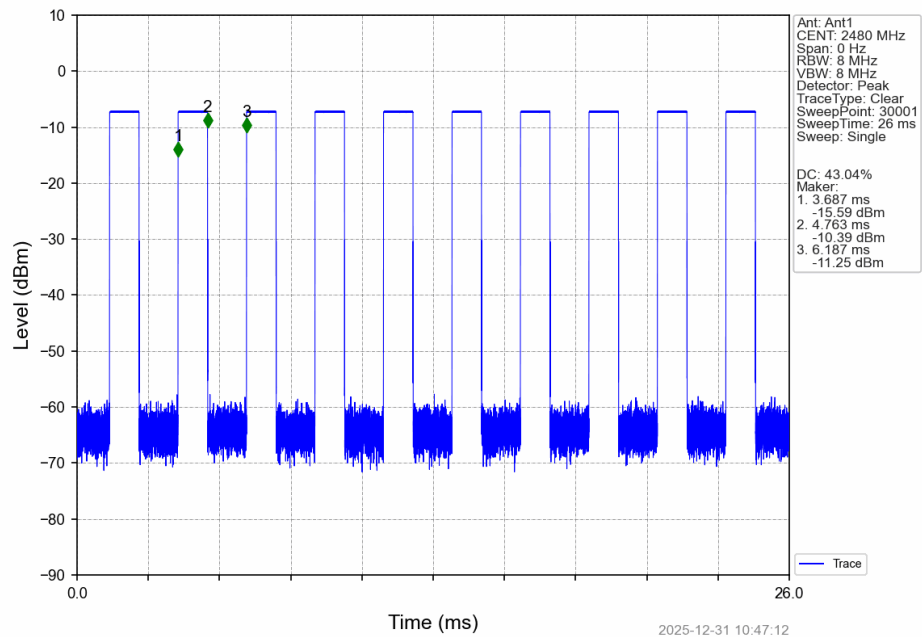
# 2M\_LCH\_2402MHz\_Ant1\_NTNV



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



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



## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

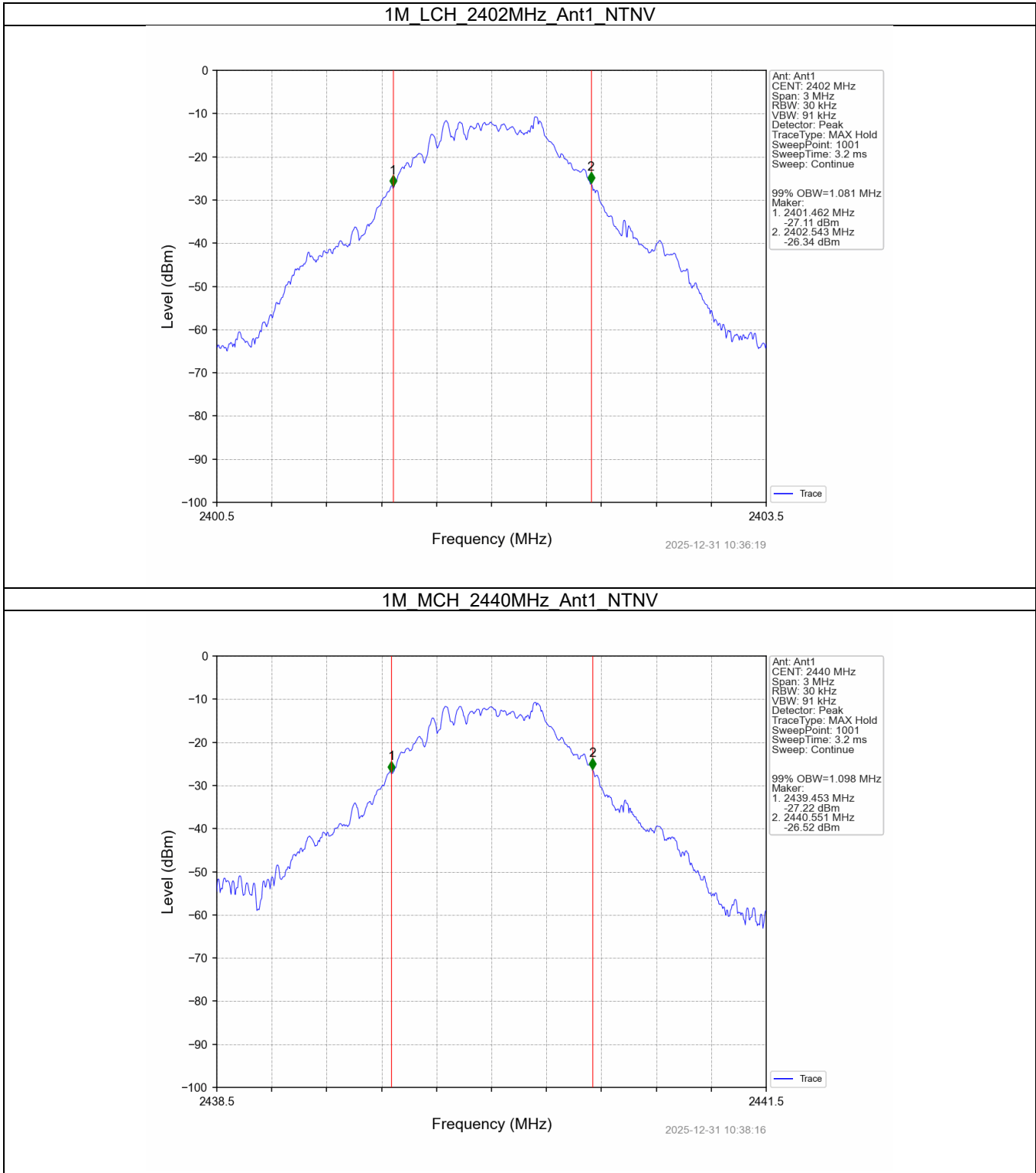
| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------|---------|-----------------|-----|------------------------------|-------|---------|
|      |         |                 |     | Result                       | Limit |         |
| 1M   | SISO    | 2402            | 1   | 1.081                        | /     | Pass    |
|      |         | 2440            | 1   | 1.098                        | /     | Pass    |
|      |         | 2480            | 1   | 1.122                        | /     | Pass    |
| 2M   | SISO    | 2402            | 1   | 2.065                        | /     | Pass    |
|      |         | 2440            | 1   | 2.071                        | /     | Pass    |
|      |         | 2480            | 1   | 2.077                        | /     | Pass    |

#### 2.1.2 6dB BW

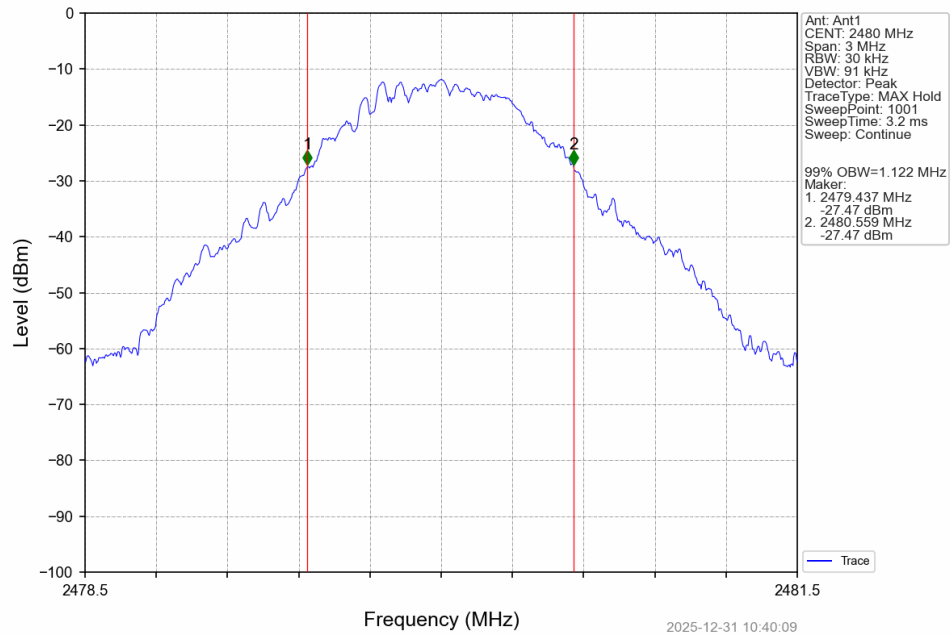
| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| 1M   | SISO    | 2402            | 1   | 0.723               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 0.732               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 0.743               | $\geq 0.5$ | Pass    |
| 2M   | SISO    | 2402            | 1   | 1.251               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 1.171               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 1.249               | $\geq 0.5$ | Pass    |

## 2.2 Test Graph

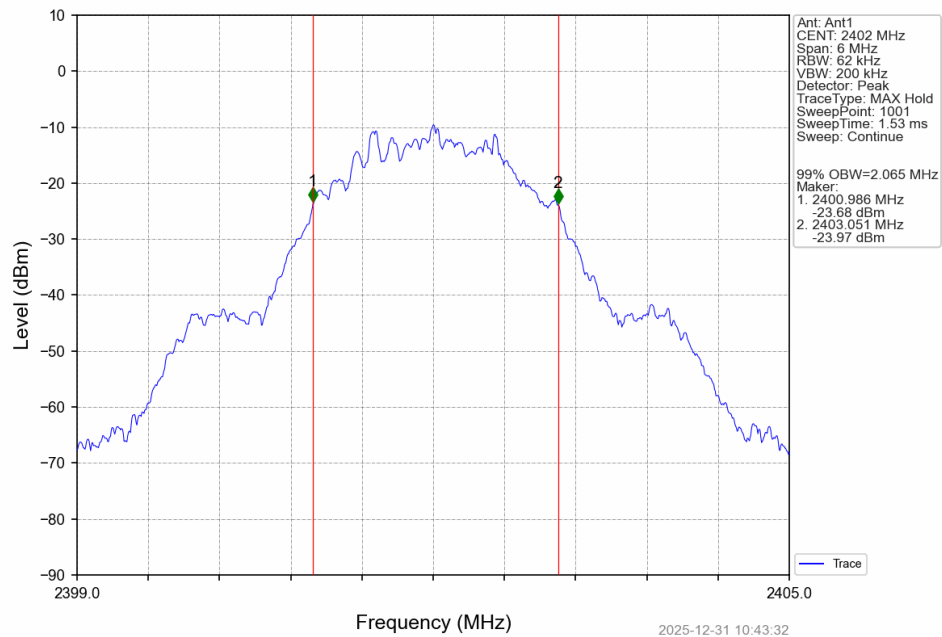
### 2.2.1 OBW



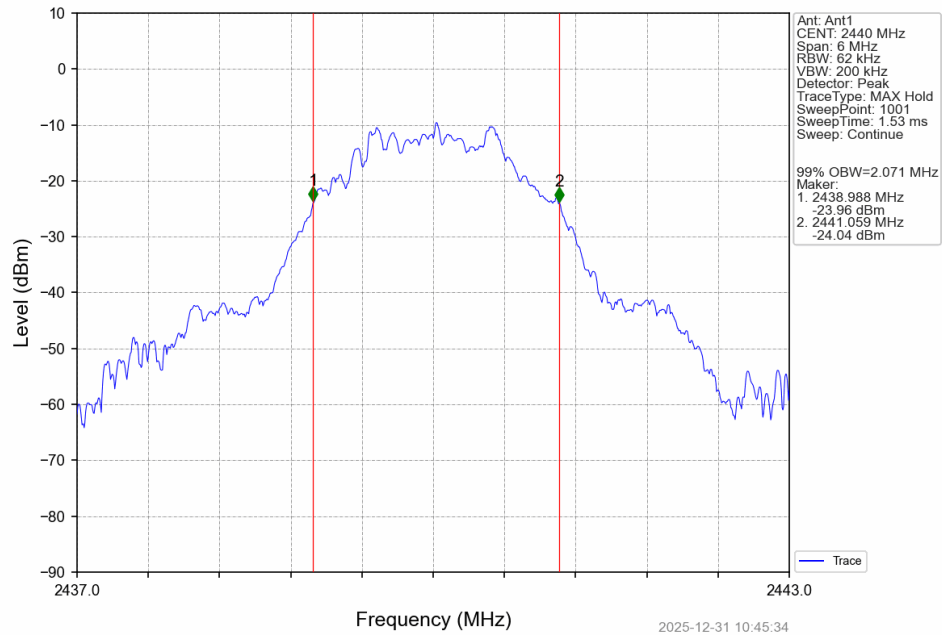
# 1M\_HCH\_2480MHz\_Ant1\_NTNV



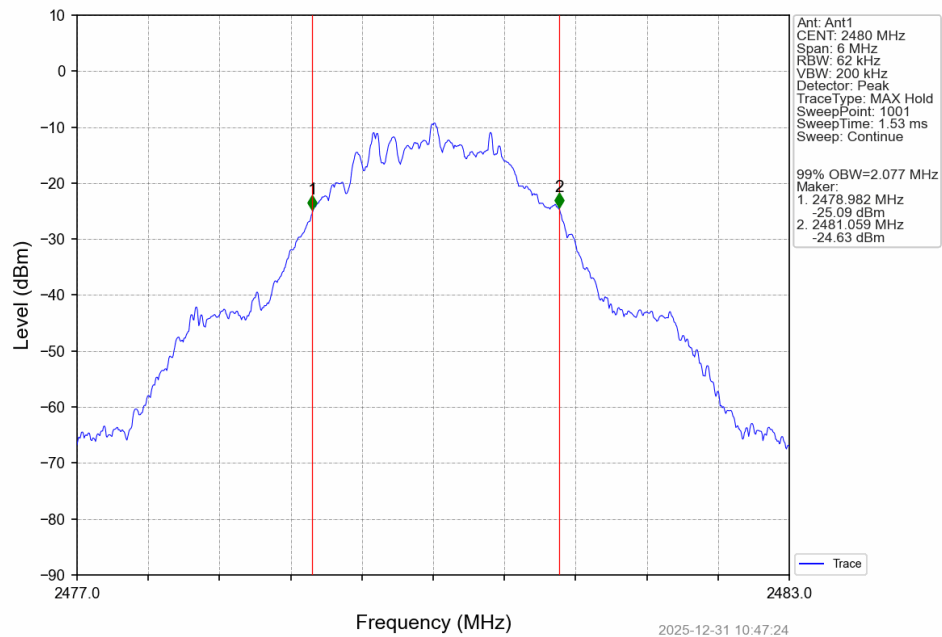
# 2M\_LCH\_2402MHz\_Ant1\_NTNV



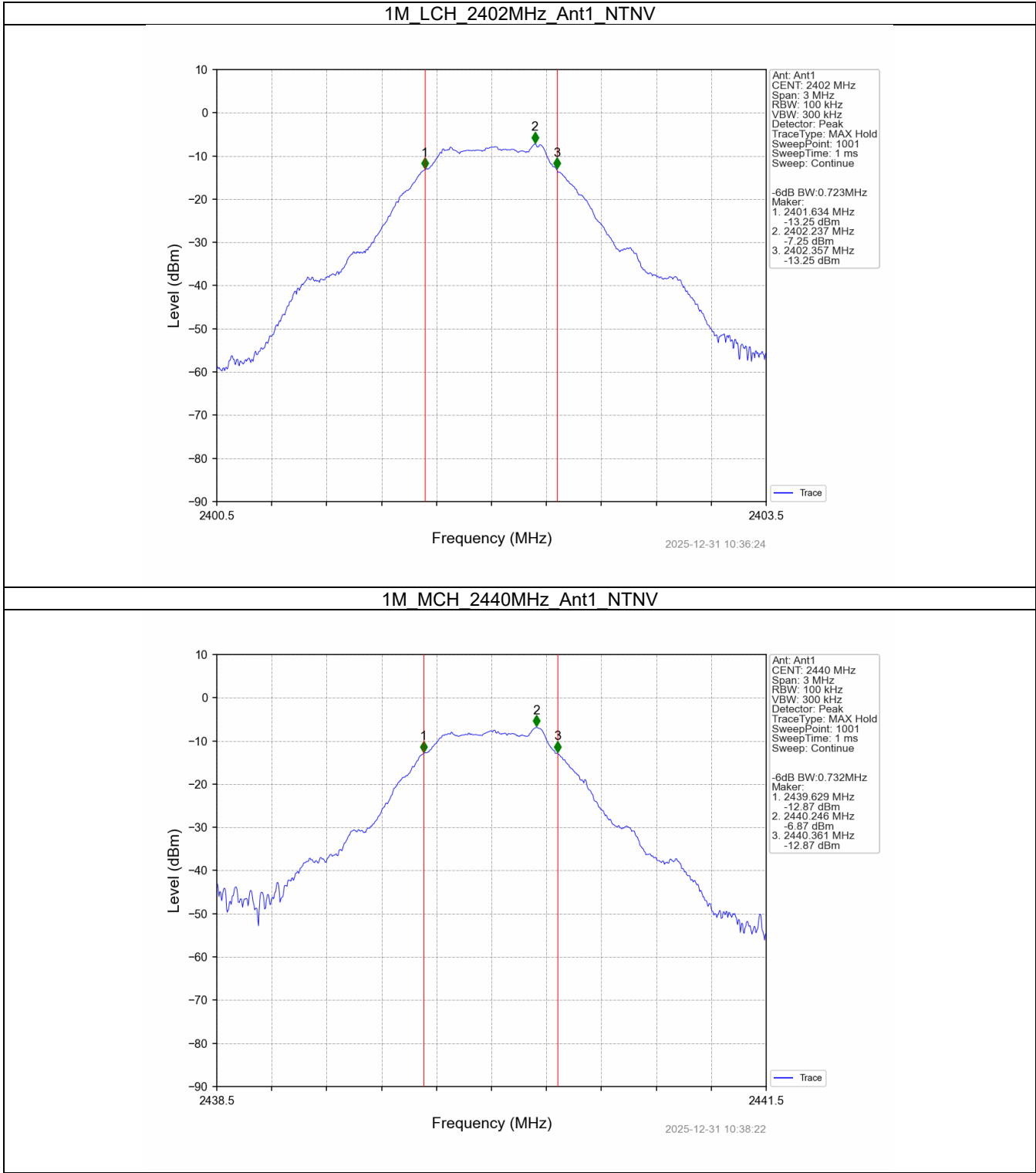
### 2M\_MCH\_2440MHz\_Ant1\_NTNV



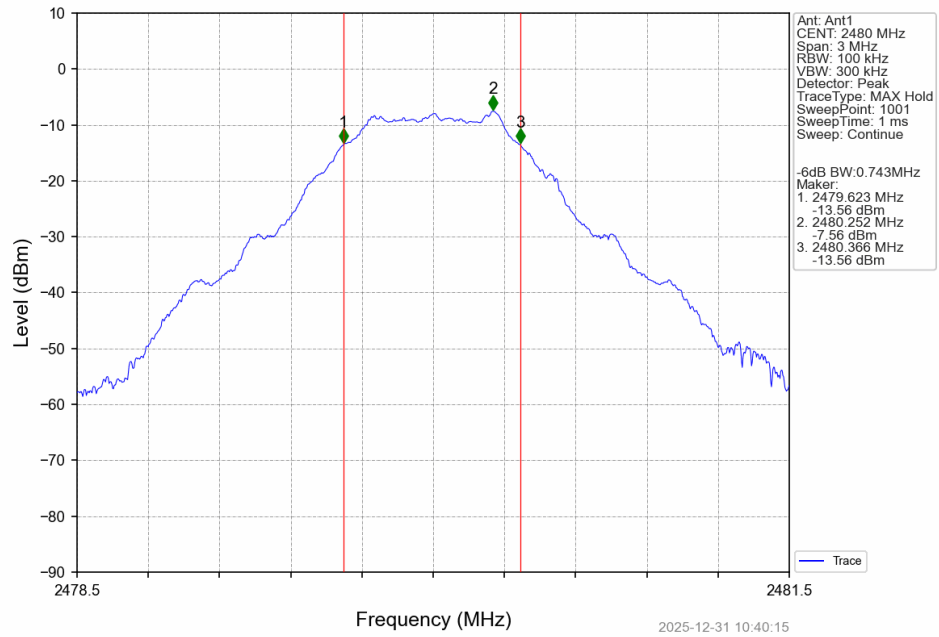
### 2M\_HCH\_2480MHz\_Ant1\_NTNV



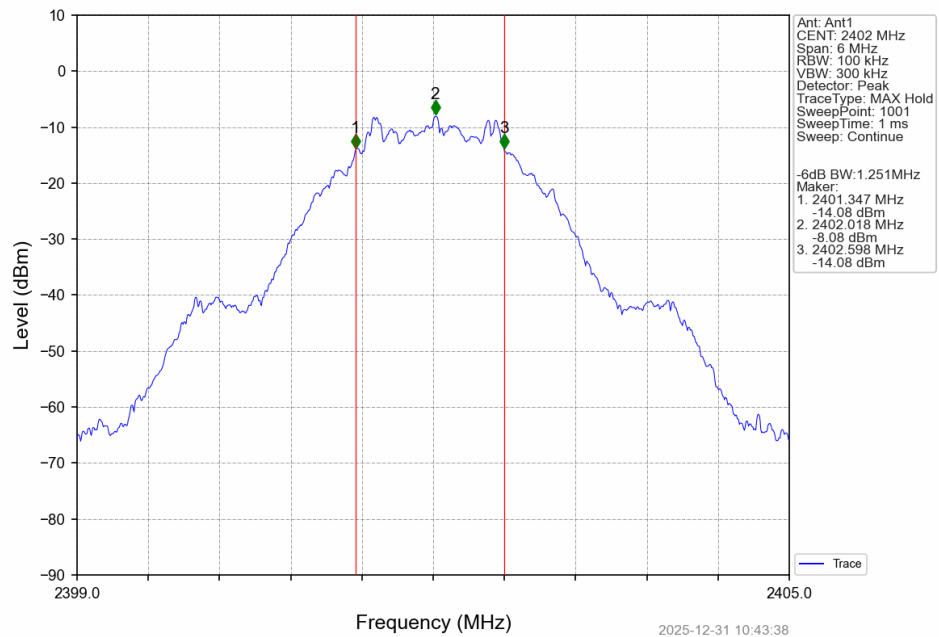
2.2.2 6dB BW



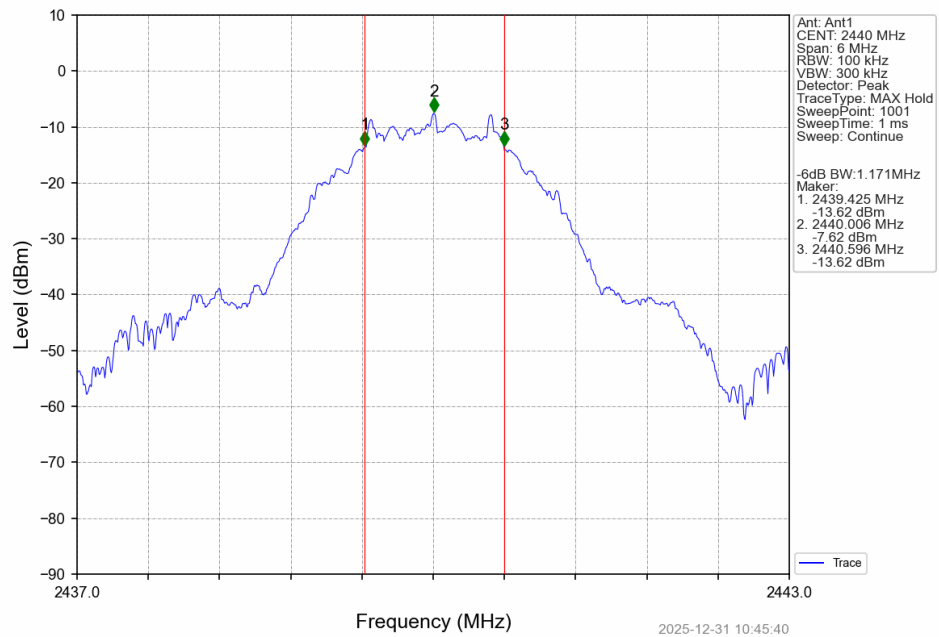
# 1M\_HCH\_2480MHz\_Ant1\_NTNV



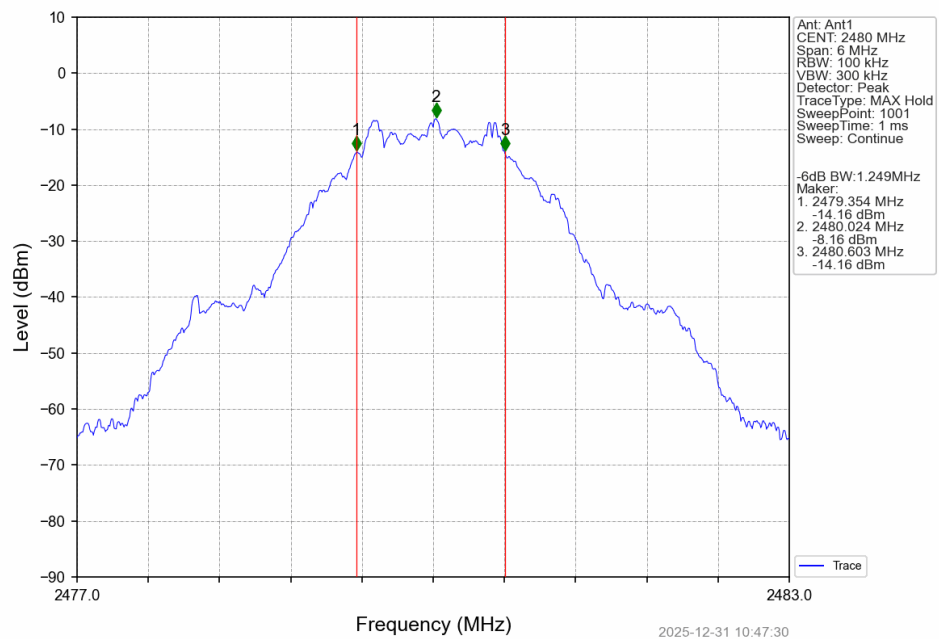
# 2M\_LCH\_2402MHz\_Ant1\_NTNV



### 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            | -6.88                                     | <=30  | Pass    |
|      |         | 2440            | -6.63                                     | <=30  | Pass    |
|      |         | 2480            | -7.30                                     | <=30  | Pass    |
| 2M   | SISO    | 2402            | -6.90                                     | <=30  | Pass    |
|      |         | 2440            | -6.40                                     | <=30  | Pass    |
|      |         | 2480            | -7.17                                     | <=30  | Pass    |

## 4. Maximum Power Spectral Density

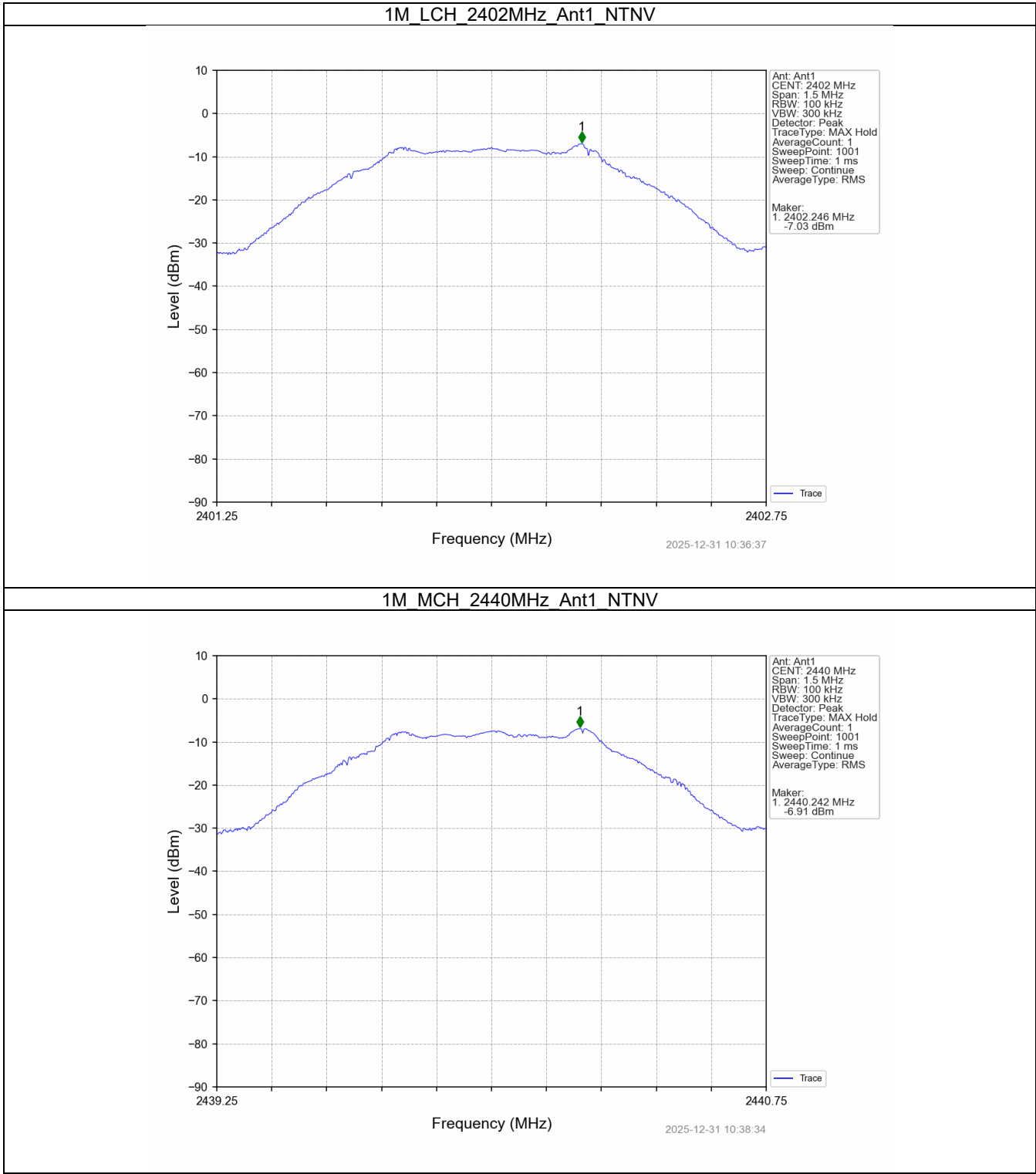
### 4.1 Test Result

#### 4.1.1 PSD

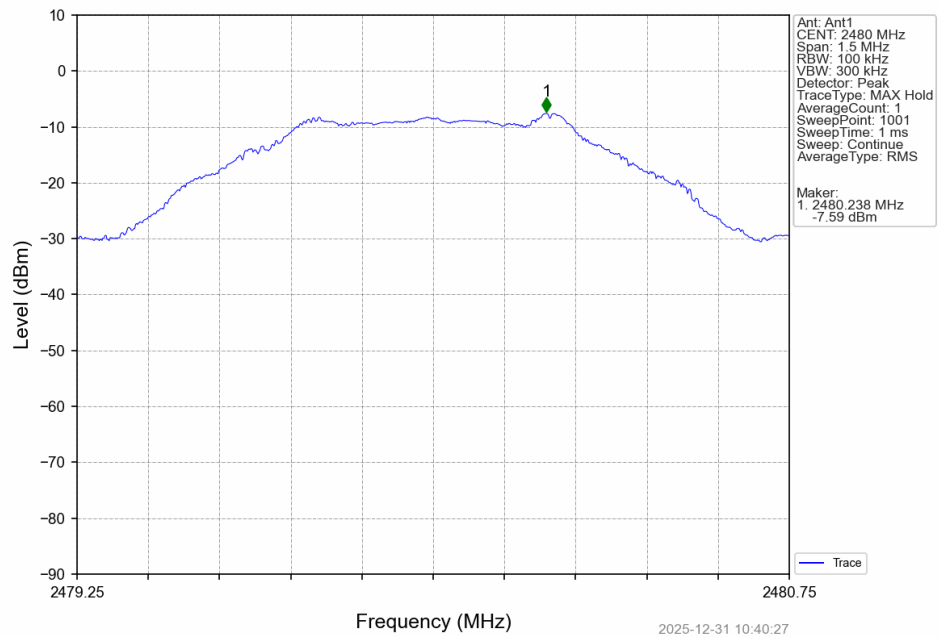
| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm) |       | Verdict |
|------|---------|-----------------|-------------------|-------|---------|
|      |         |                 | ANT1              | Limit |         |
| 1M   | SISO    | 2402            | -7.03             | <=8   | Pass    |
|      |         | 2440            | -6.91             | <=8   | Pass    |
|      |         | 2480            | -7.59             | <=8   | Pass    |
| 2M   | SISO    | 2402            | -8.03             | <=8   | Pass    |
|      |         | 2440            | -7.53             | <=8   | Pass    |
|      |         | 2480            | -8.31             | <=8   | Pass    |

4.2 Test Graph

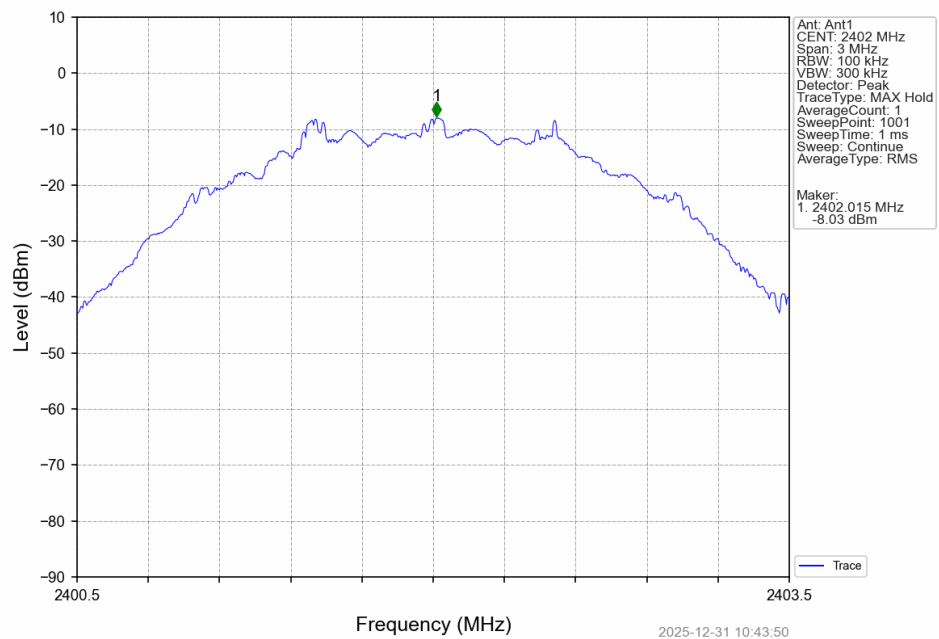
4.2.1 PSD



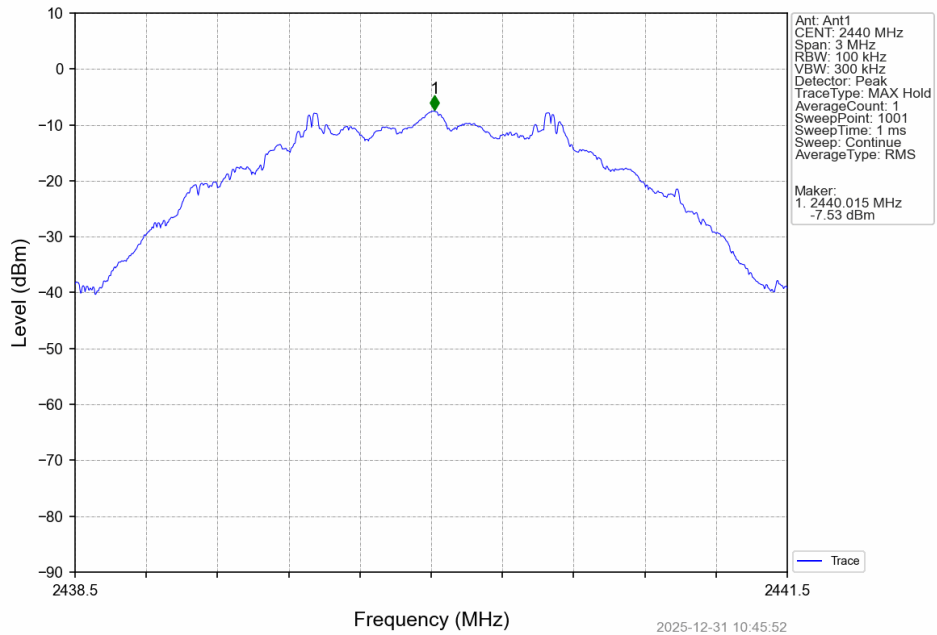
### 1M\_HCH\_2480MHz\_Ant1\_NTNV



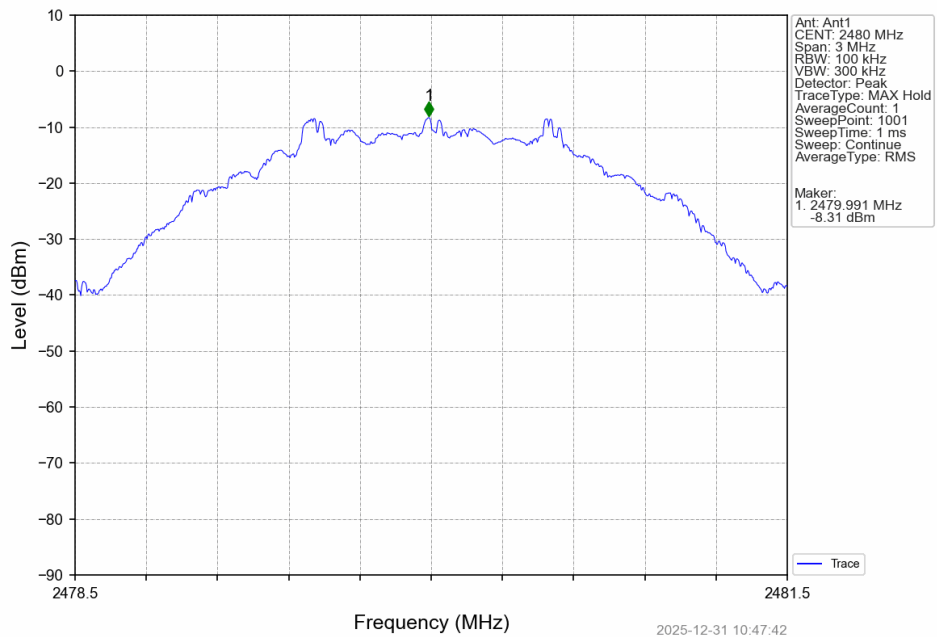
### 2M\_LCH\_2402MHz\_Ant1\_NTNV



### 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

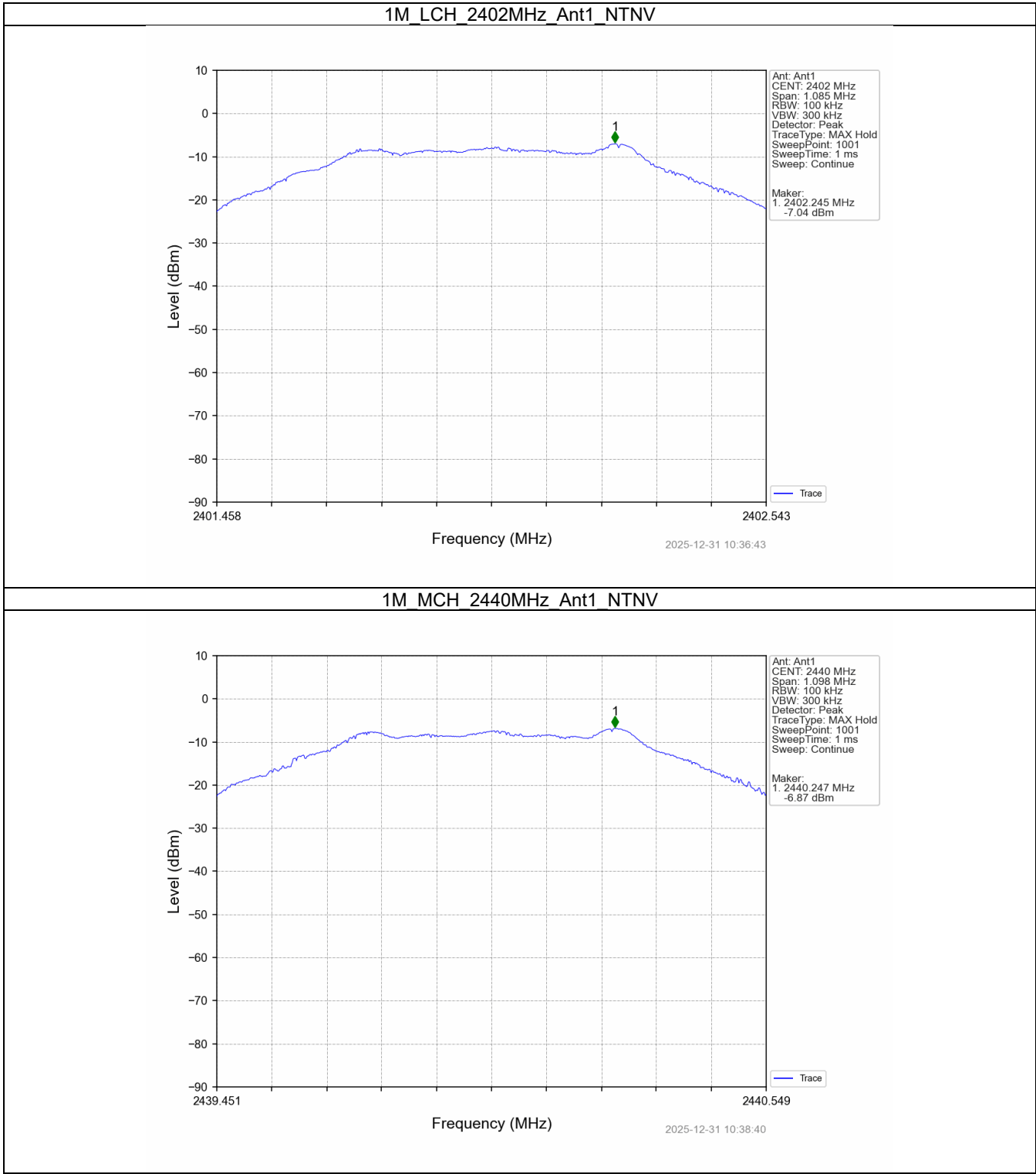
| Mode                                                                                                                                            | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|
| 1M                                                                                                                                              | SISO    | 2402            | 1   | -7.04                    |
|                                                                                                                                                 |         | 2440            | 1   | -6.87                    |
|                                                                                                                                                 |         | 2480            | 1   | -7.52                    |
| 2M                                                                                                                                              | SISO    | 2402            | 1   | -7.99                    |
|                                                                                                                                                 |         | 2440            | 1   | -7.48                    |
|                                                                                                                                                 |         | 2480            | 1   | -7.97                    |
| Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level. |         |                 |     |                          |

### 5.1.2 CSE

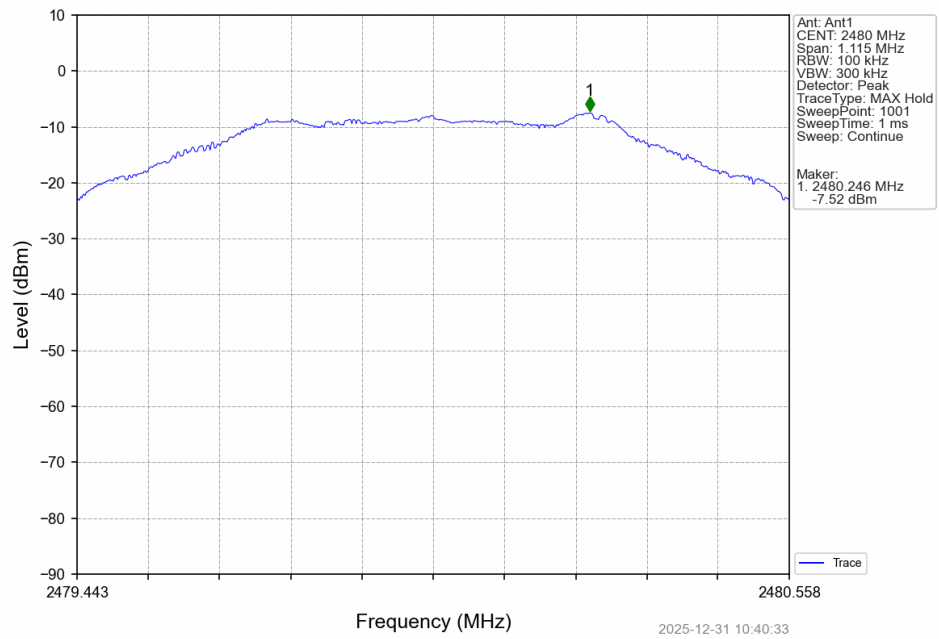
| Mode                                                                                                                                            | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M                                                                                                                                              | SISO    | 2402            | 1   | -7.04                    | -27.04      | Pass    |
|                                                                                                                                                 |         | 2440            | 1   | -6.87                    | -26.87      | Pass    |
|                                                                                                                                                 |         | 2480            | 1   | -7.52                    | -27.52      | Pass    |
| 2M                                                                                                                                              | SISO    | 2402            | 1   | -7.99                    | -27.99      | Pass    |
|                                                                                                                                                 |         | 2440            | 1   | -7.48                    | -27.48      | Pass    |
|                                                                                                                                                 |         | 2480            | 1   | -7.97                    | -27.97      | Pass    |
| Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level. |         |                 |     |                          |             |         |

5.2 Test Graph

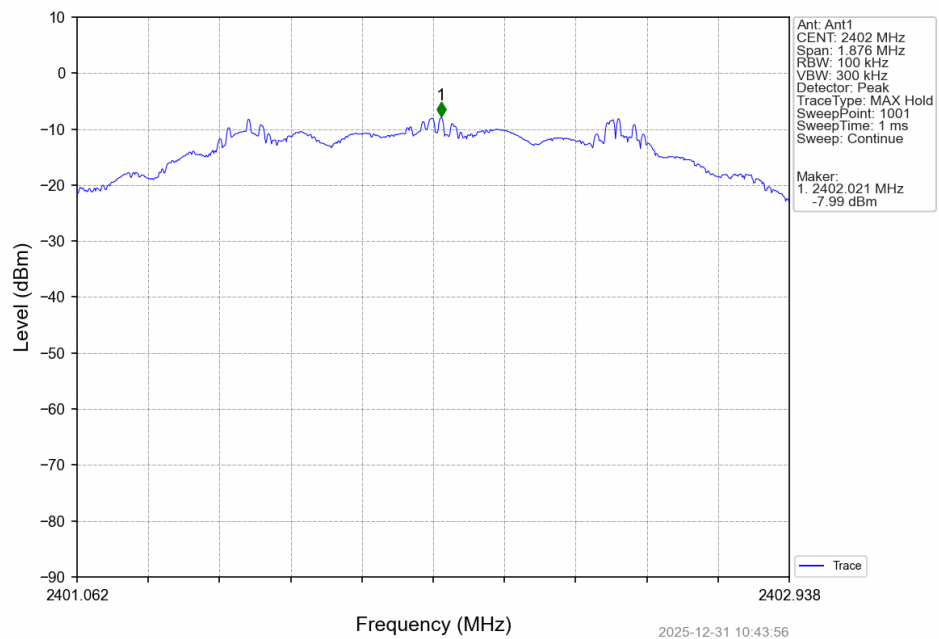
5.2.1 Ref



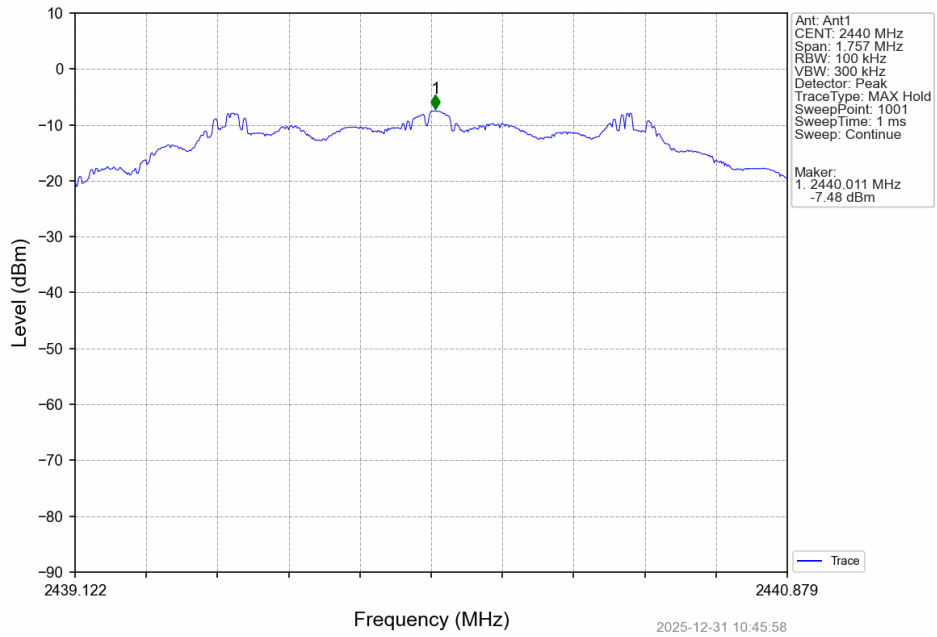
# 1M\_HCH\_2480MHz\_Ant1\_NTNV



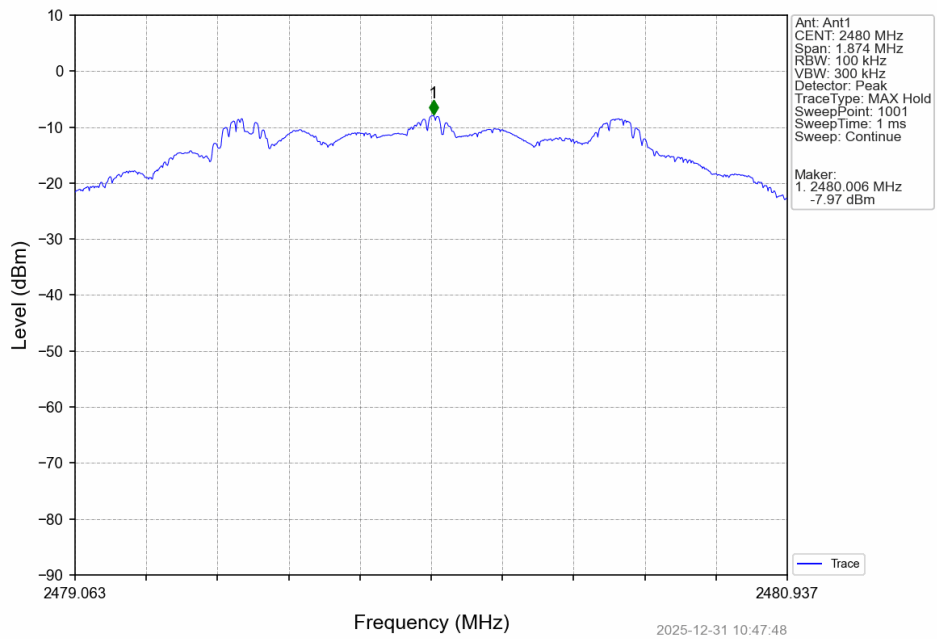
# 2M\_LCH\_2402MHz\_Ant1\_NTNV



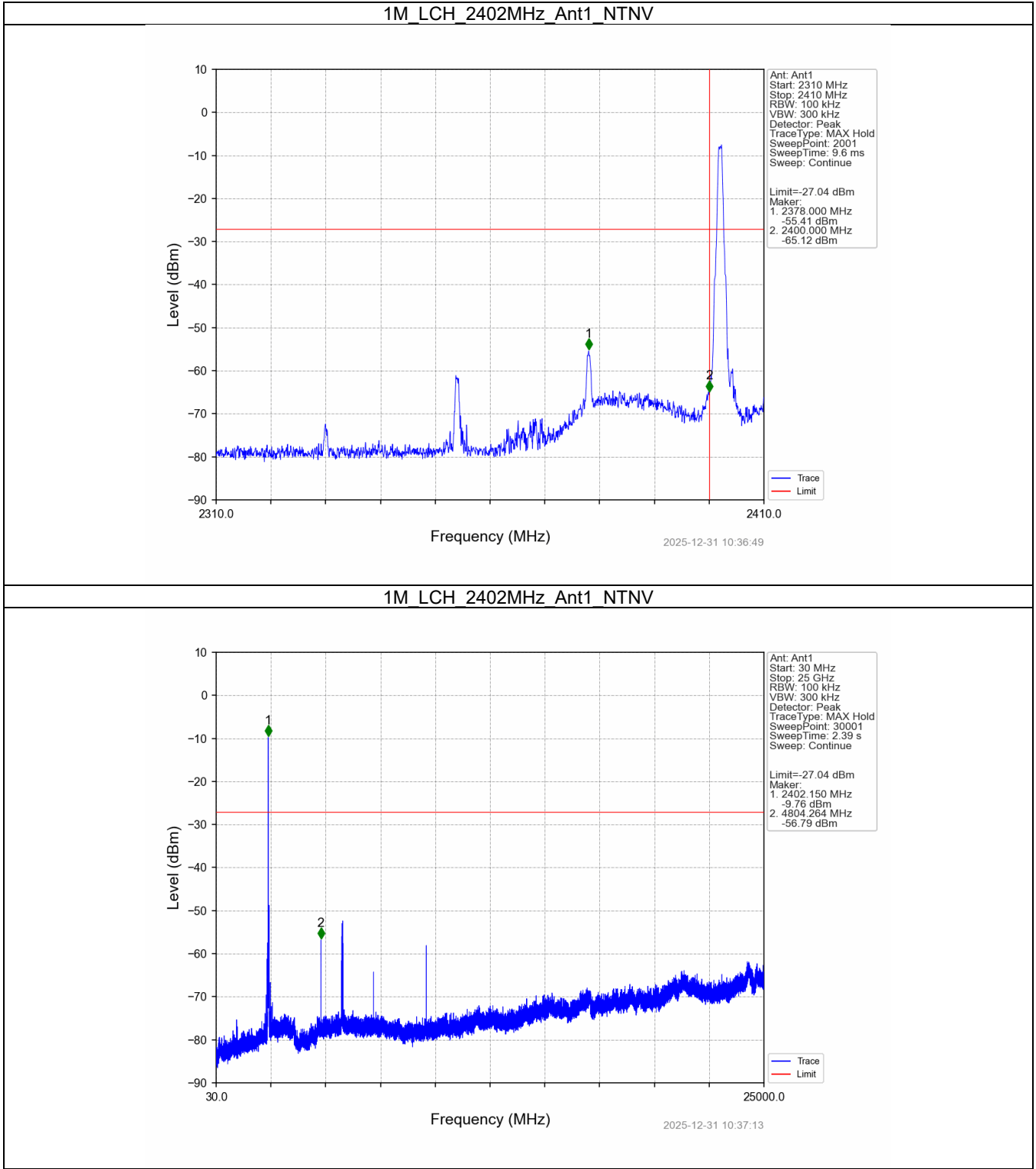
### 2M\_MCH\_2440MHz\_Ant1\_NTNV



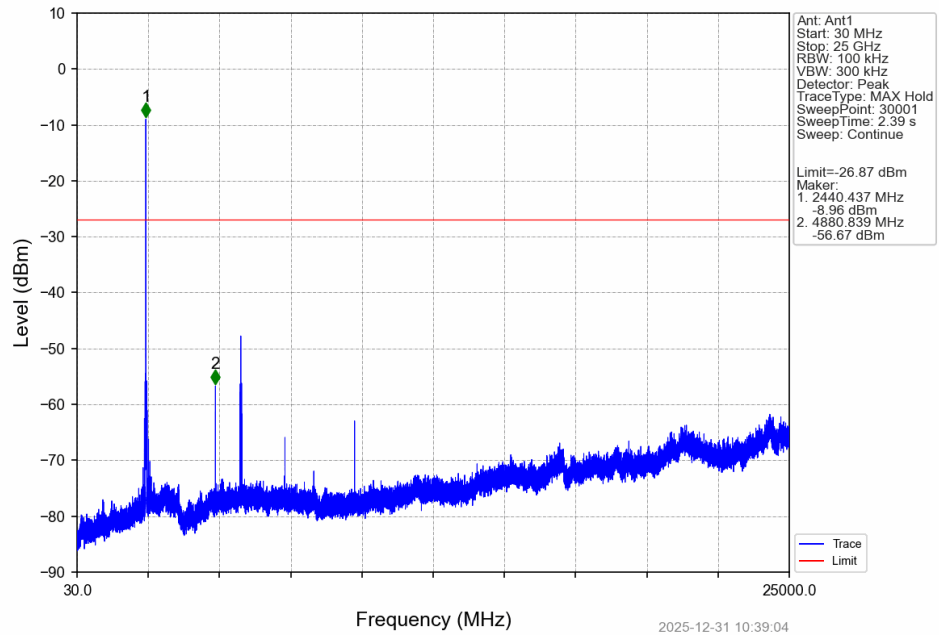
### 2M\_HCH\_2480MHz\_Ant1\_NTNV



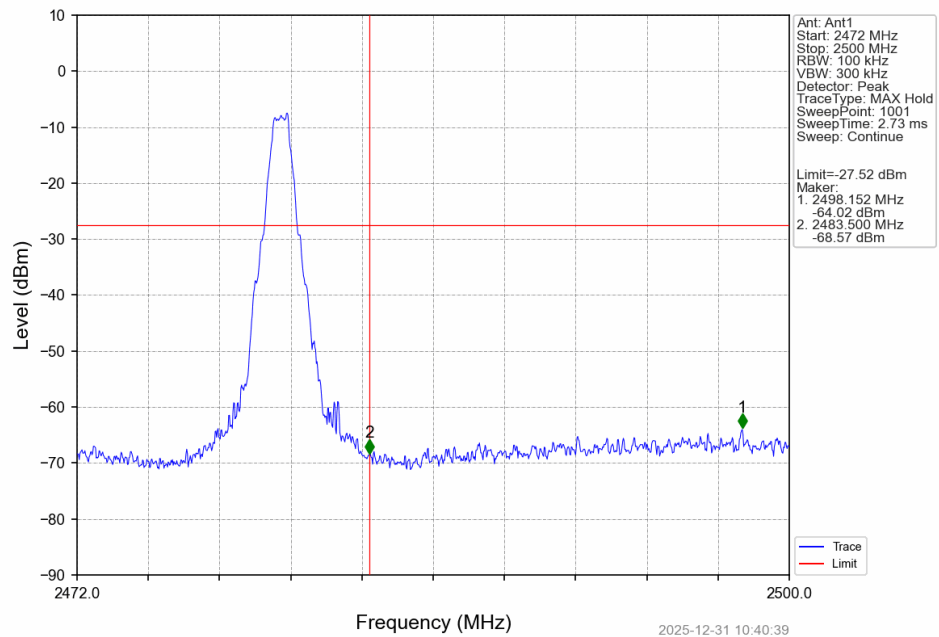
5.2.2 CSE



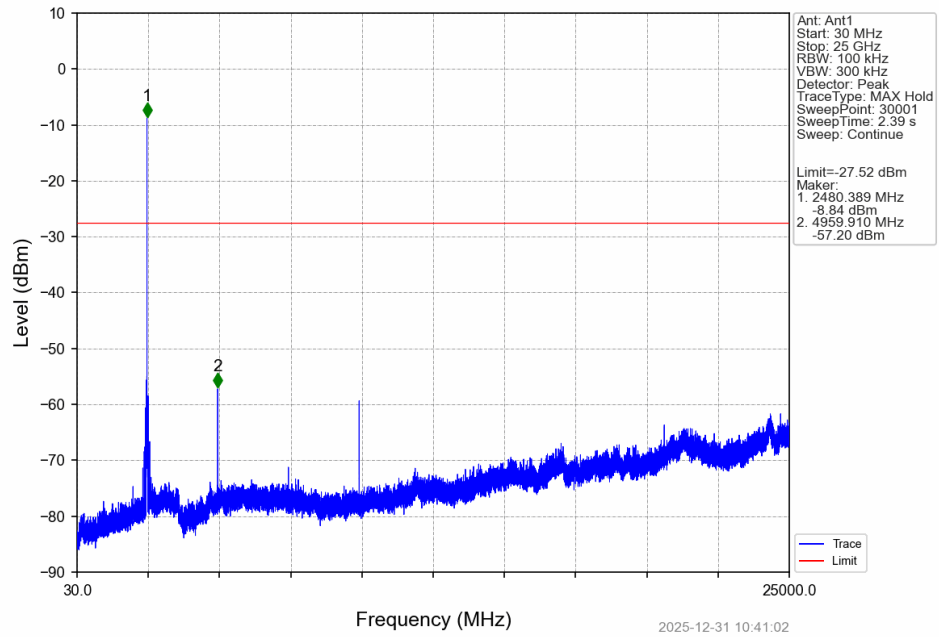
# 1M\_MCH\_2440MHz\_Ant1\_NTNV



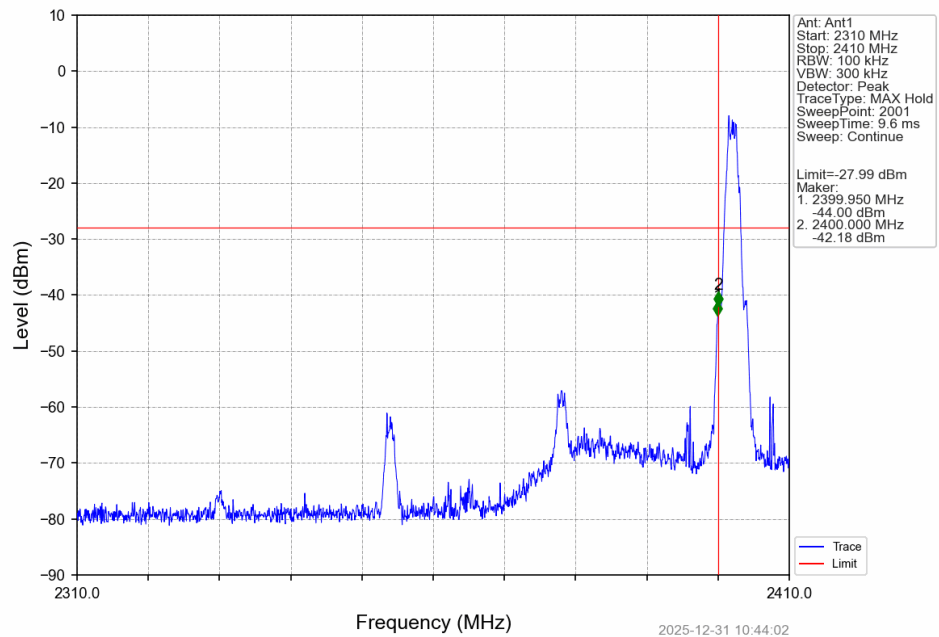
# 1M\_HCH\_2480MHz\_Ant1\_NTNV



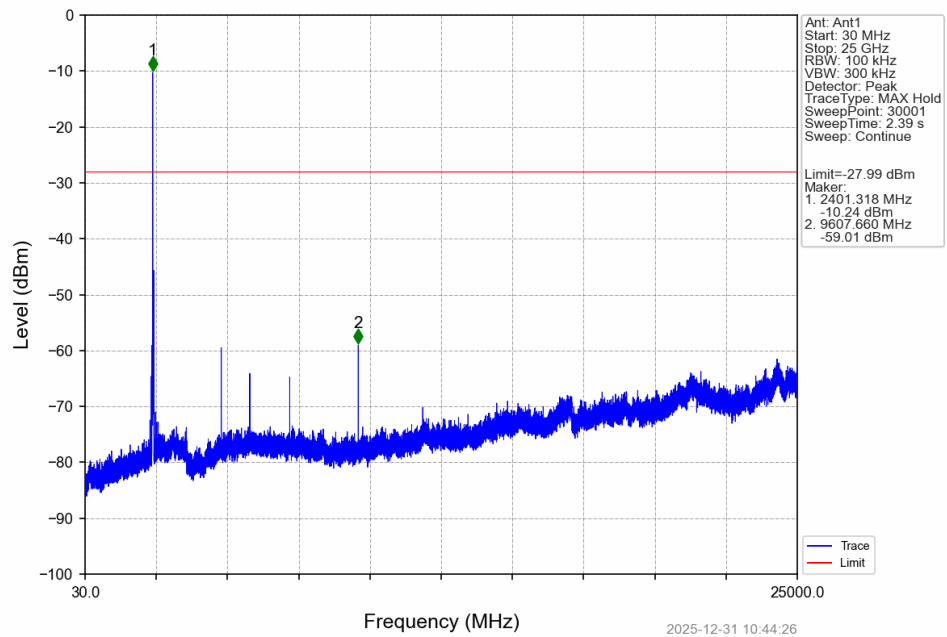
# 1M\_HCH\_2480MHz\_Ant1\_NTNV



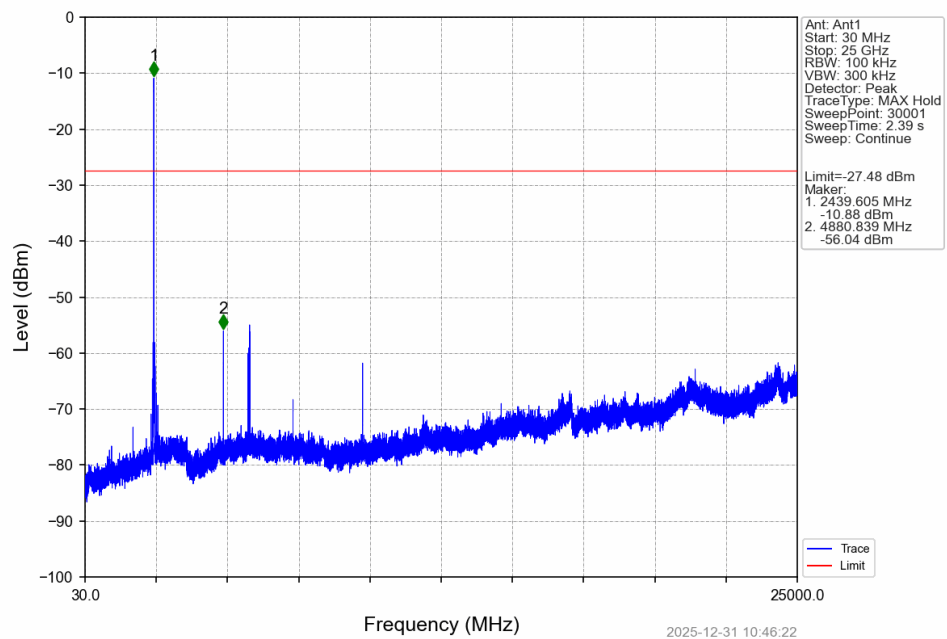
# 2M\_LCH\_2402MHz\_Ant1\_NTNV



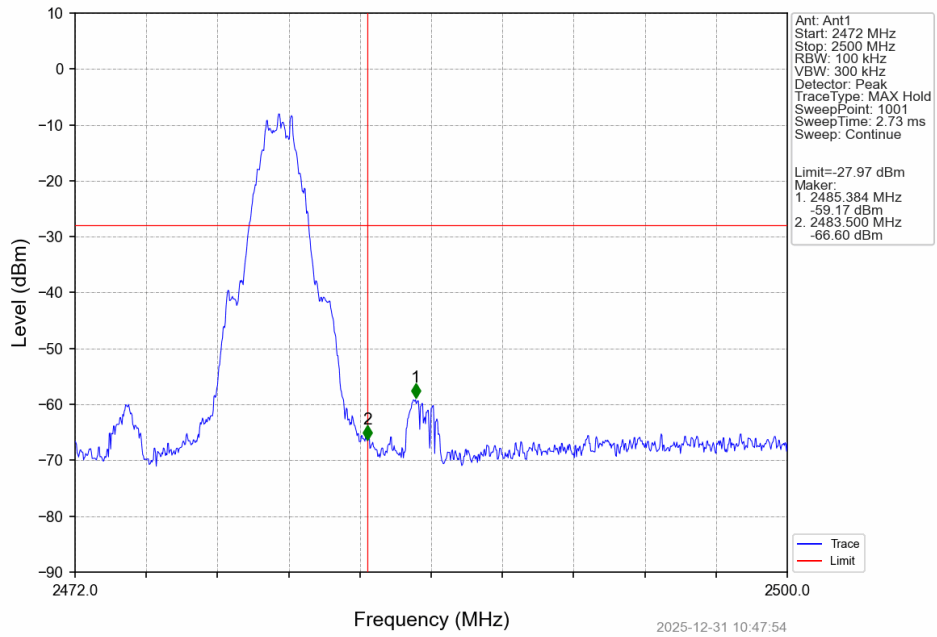
# 2M\_LCH\_2402MHz\_Ant1\_NTNV



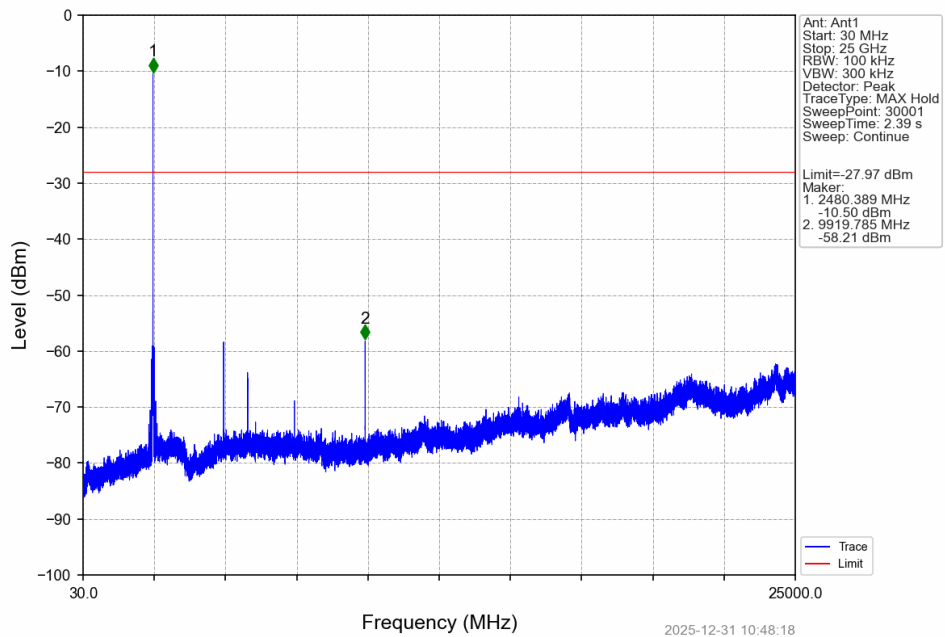
# 2M\_MCH\_2440MHz\_Ant1\_NTNV



# 2M\_HCH\_2480MHz\_Ant1\_NTNV



# 2M\_HCH\_2480MHz\_Ant1\_NTNV



## 6. Form731

### 6.1 Test Result

#### 6.1.1 Form731

| Lower Freq (MHz) | High Freq (MHz) | MAX Power (W) | MAX Power (dBm) |
|------------------|-----------------|---------------|-----------------|
| 2402             | 2480            | 0.0002        | -6.40           |