

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

**Company:** : Hangzhou Adaprox Intelligent Technology Co., Ltd.

**EUT** : ADB1 Cloud Module

**FCC ID:** : 2A2X5-ADB1

**Model Number** : ADB1

**Report No.** : HTT202512747F02

**Reviewed By** : Heber He

## 1. Duty Cycle

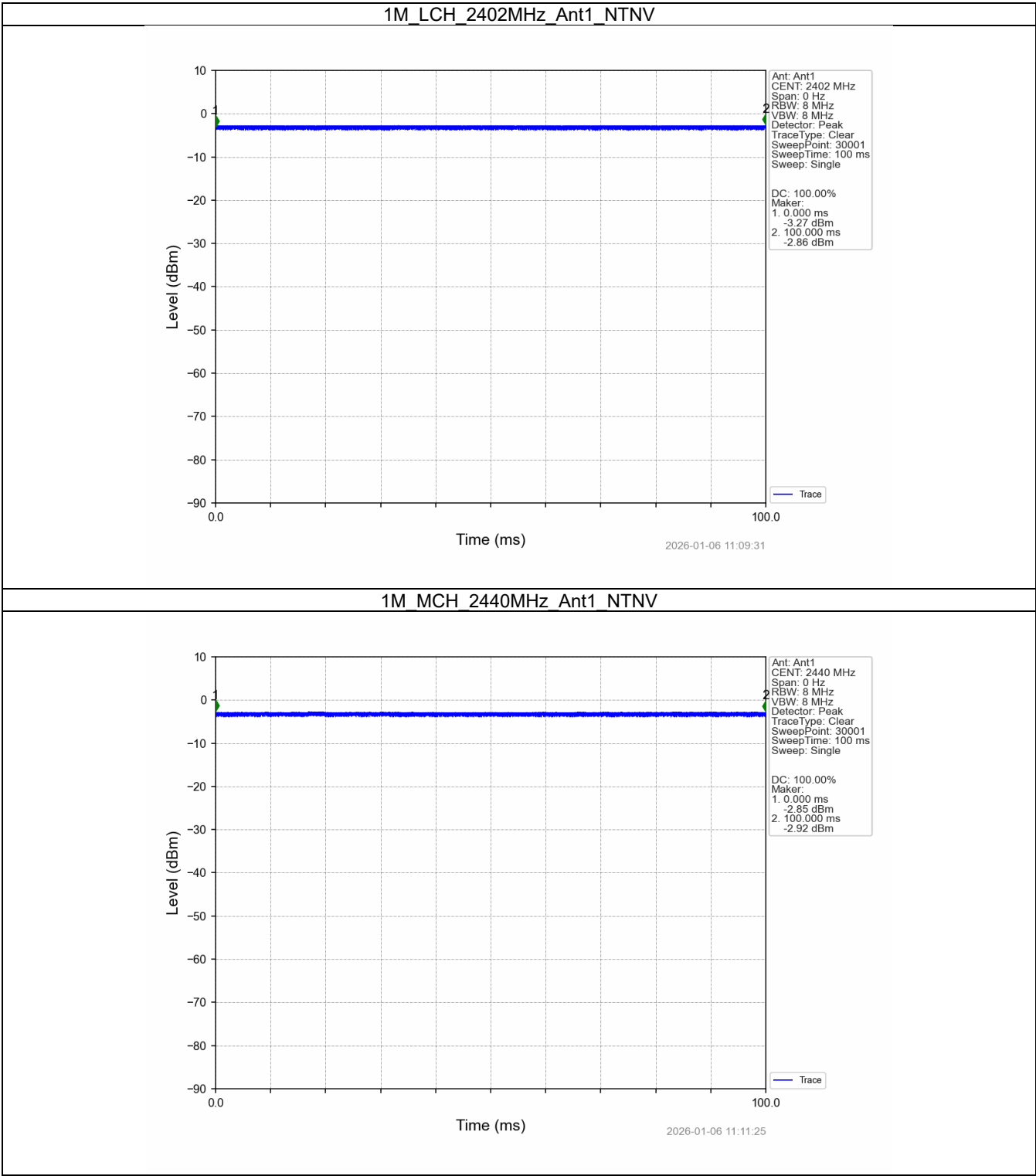
### 1.1 Test Result

#### 1.1.1 Ant1

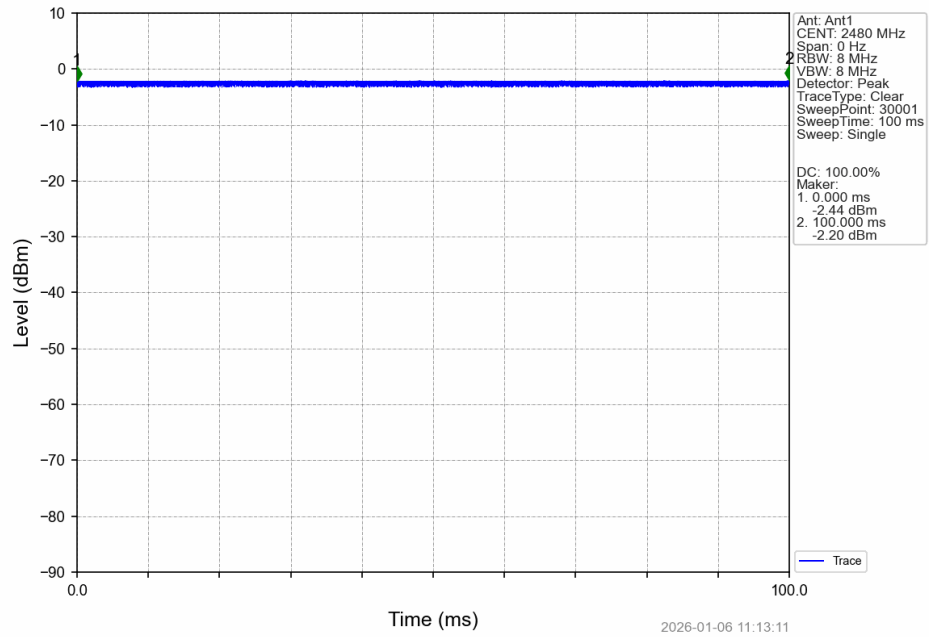
| Ant1 |         |                 |           |             |                |                                   |                       |
|------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency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



## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

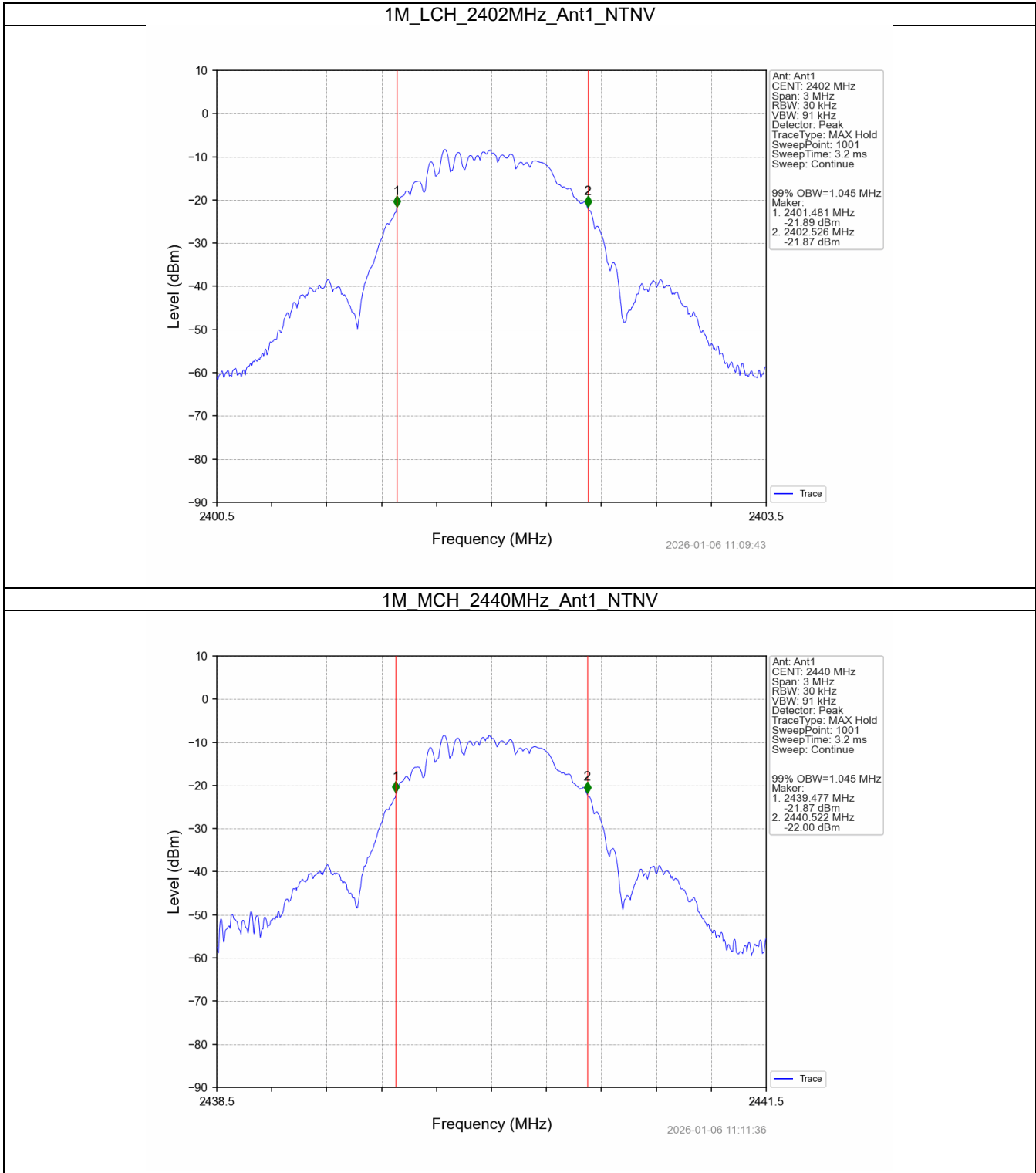
| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------|---------|-----------------|-----|------------------------------|-------|---------|
|      |         |                 |     | Result                       | Limit |         |
| 1M   | SISO    | 2402            | 1   | 1.045                        | /     | Pass    |
|      |         | 2440            | 1   | 1.045                        | /     | Pass    |
|      |         | 2480            | 1   | 1.046                        | /     | Pass    |

#### 2.1.2 6dB BW

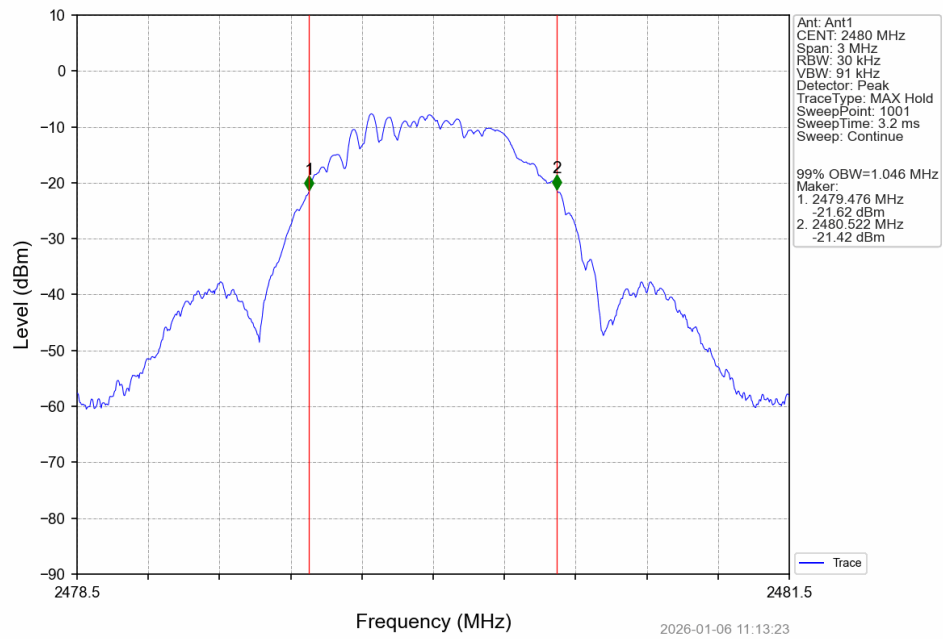
| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| 1M   | SISO    | 2402            | 1   | 0.726               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 0.719               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 0.723               | $\geq 0.5$ | Pass    |

2.2 Test Graph

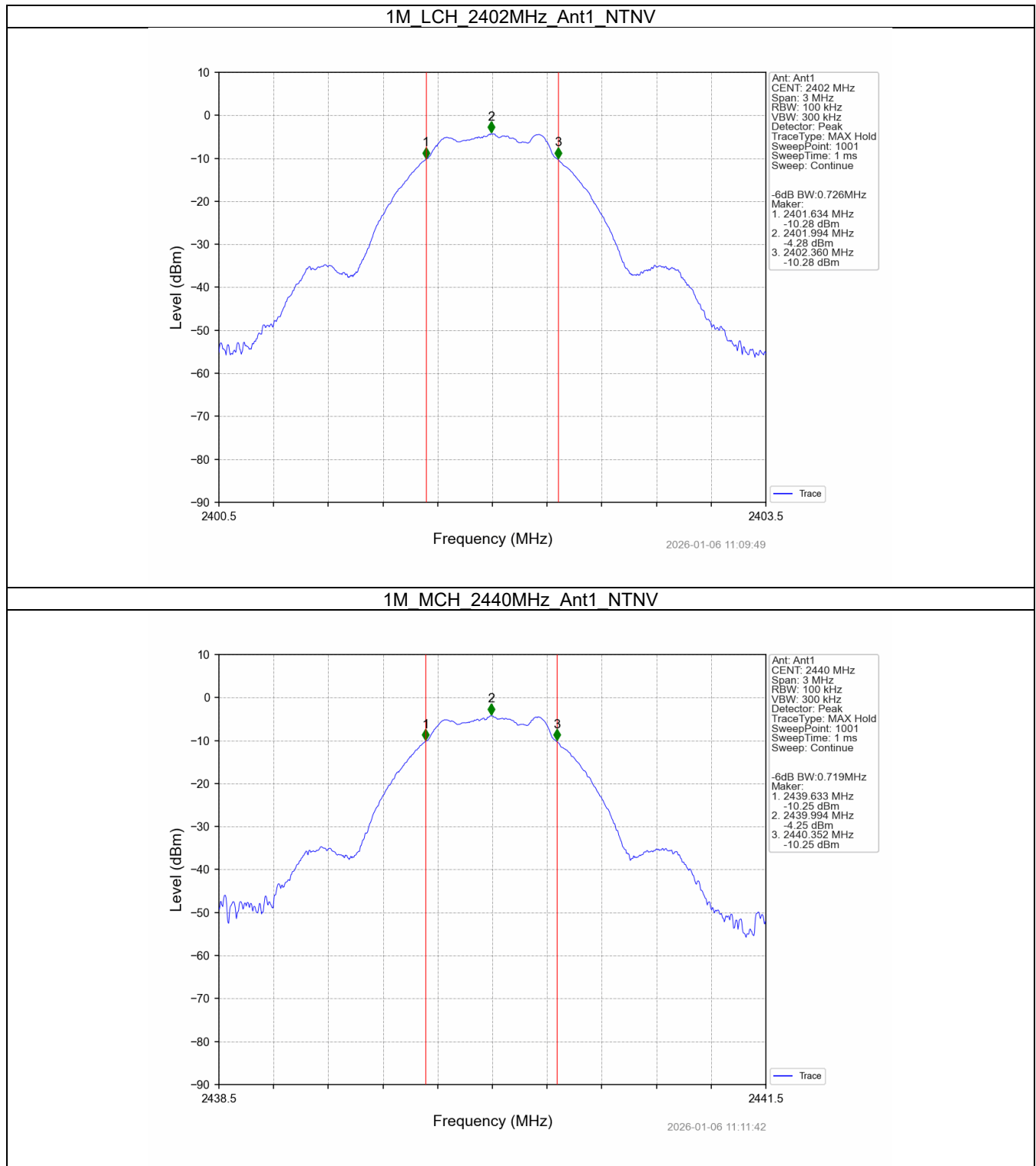
2.2.1 OBW



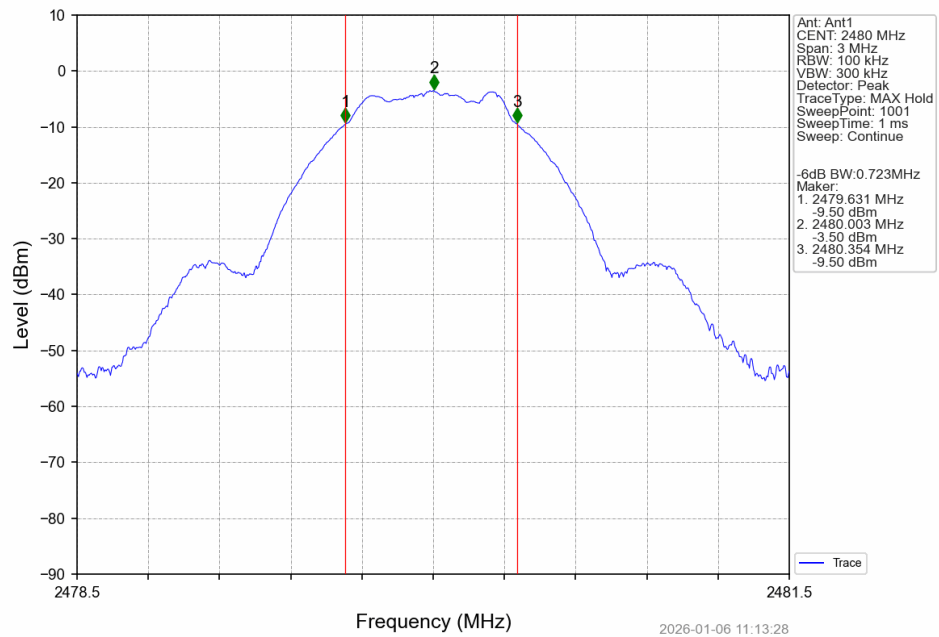
1M\_HCH\_2480MHz\_Ant1\_NTNV



## 2.2.2 6dB BW



# 1M\_HCH\_2480MHz\_Ant1\_NTNV



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### 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            | -2.92                                     | <=30  | Pass    |
|      |         | 2440            | -2.93                                     | <=30  | Pass    |
|      |         | 2480            | -2.14                                     | <=30  | Pass    |

## 4. Maximum Power Spectral Density

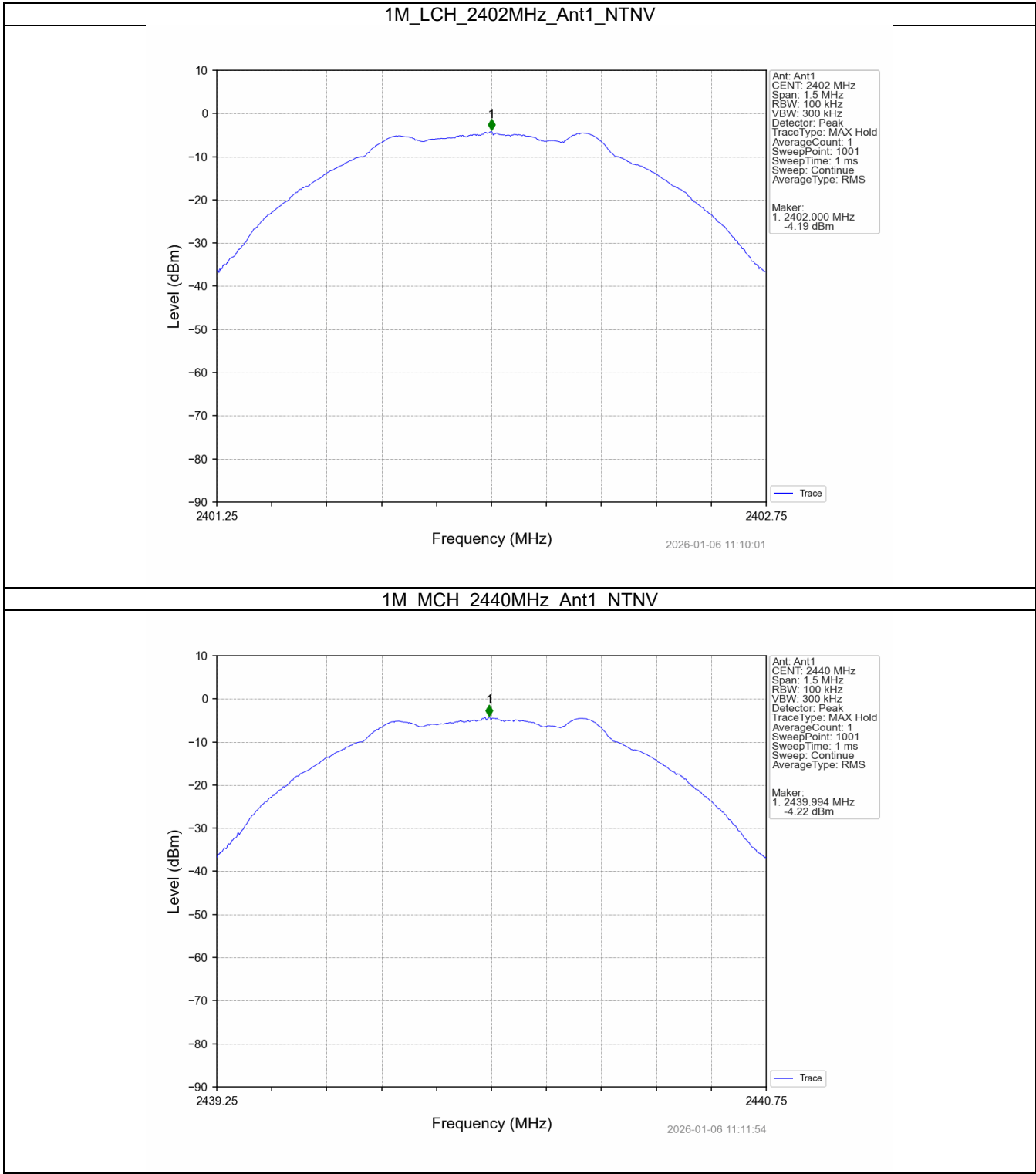
### 4.1 Test Result

#### 4.1.1 PSD

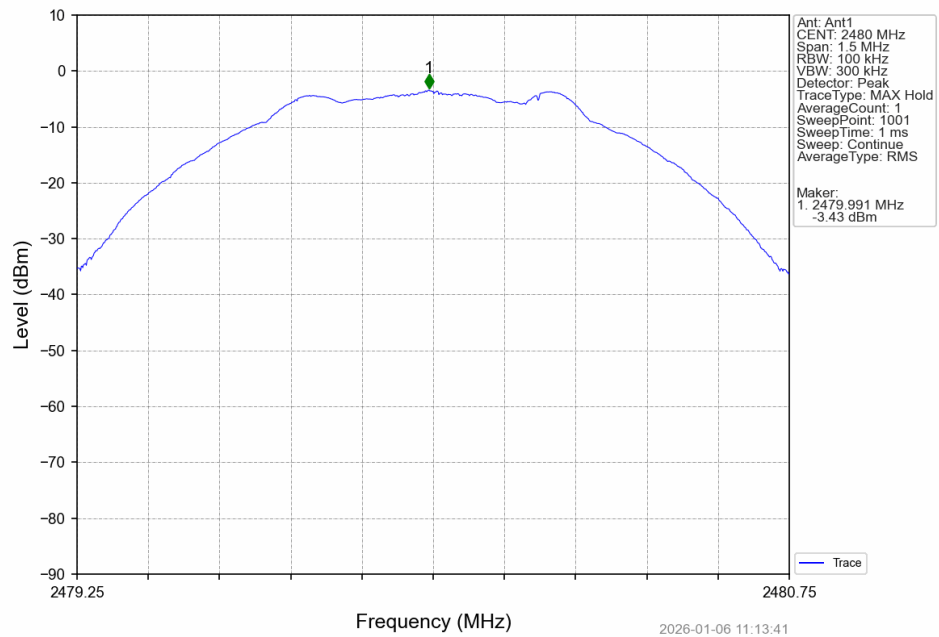
| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm) |       | Verdict |
|------|---------|-----------------|-------------------|-------|---------|
|      |         |                 | ANT1              | Limit |         |
| 1M   | SISO    | 2402            | -4.19             | <=8   | Pass    |
|      |         | 2440            | -4.22             | <=8   | Pass    |
|      |         | 2480            | -3.43             | <=8   | Pass    |

4.2 Test Graph

4.2.1 PSD



# 1M\_HCH\_2480MHz\_Ant1\_NTNV



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

### 5.1 Test Result

#### 5.1.1 Ref

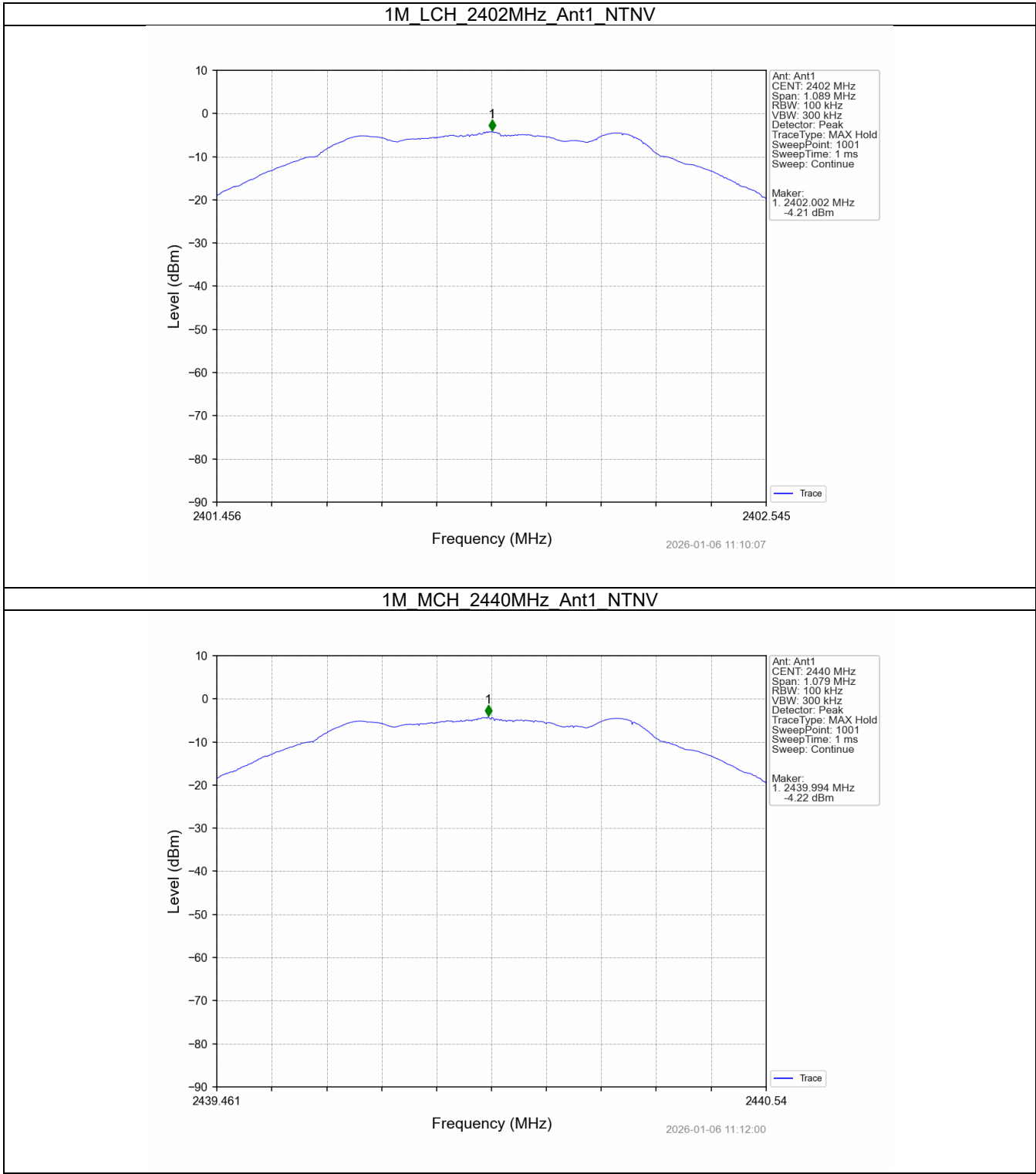
| Mode                                                                                                                                            | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|
| 1M                                                                                                                                              | SISO    | 2402            | 1   | -4.21                    |
|                                                                                                                                                 |         | 2440            | 1   | -4.22                    |
|                                                                                                                                                 |         | 2480            | 1   | -3.59                    |
| 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

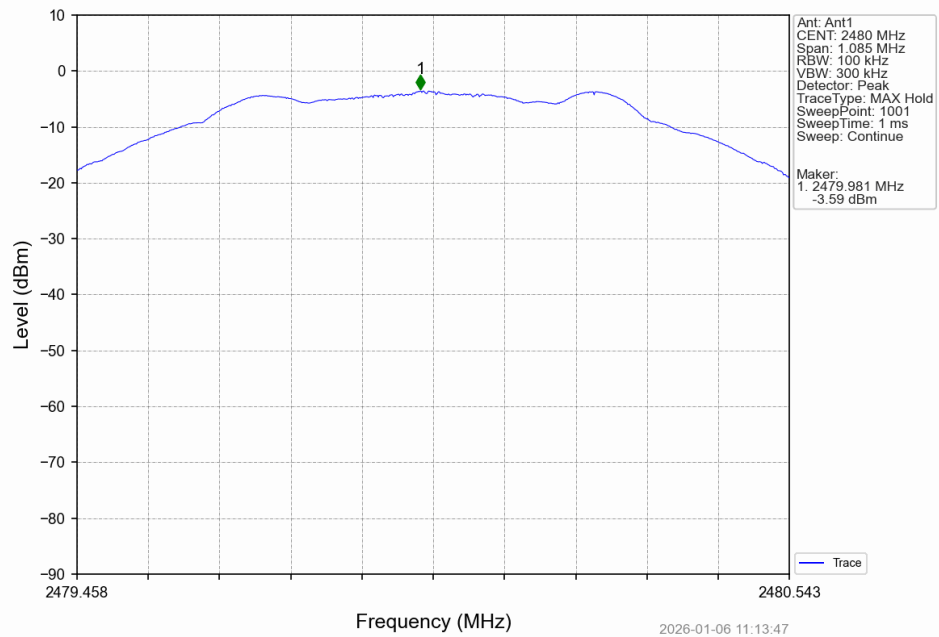
| Mode                                                                                                                                            | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M                                                                                                                                              | SISO    | 2402            | 1   | -4.21                    | -24.21      | Pass    |
|                                                                                                                                                 |         | 2440            | 1   | -4.22                    | -24.22      | Pass    |
|                                                                                                                                                 |         | 2480            | 1   | -3.59                    | -23.59      | 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

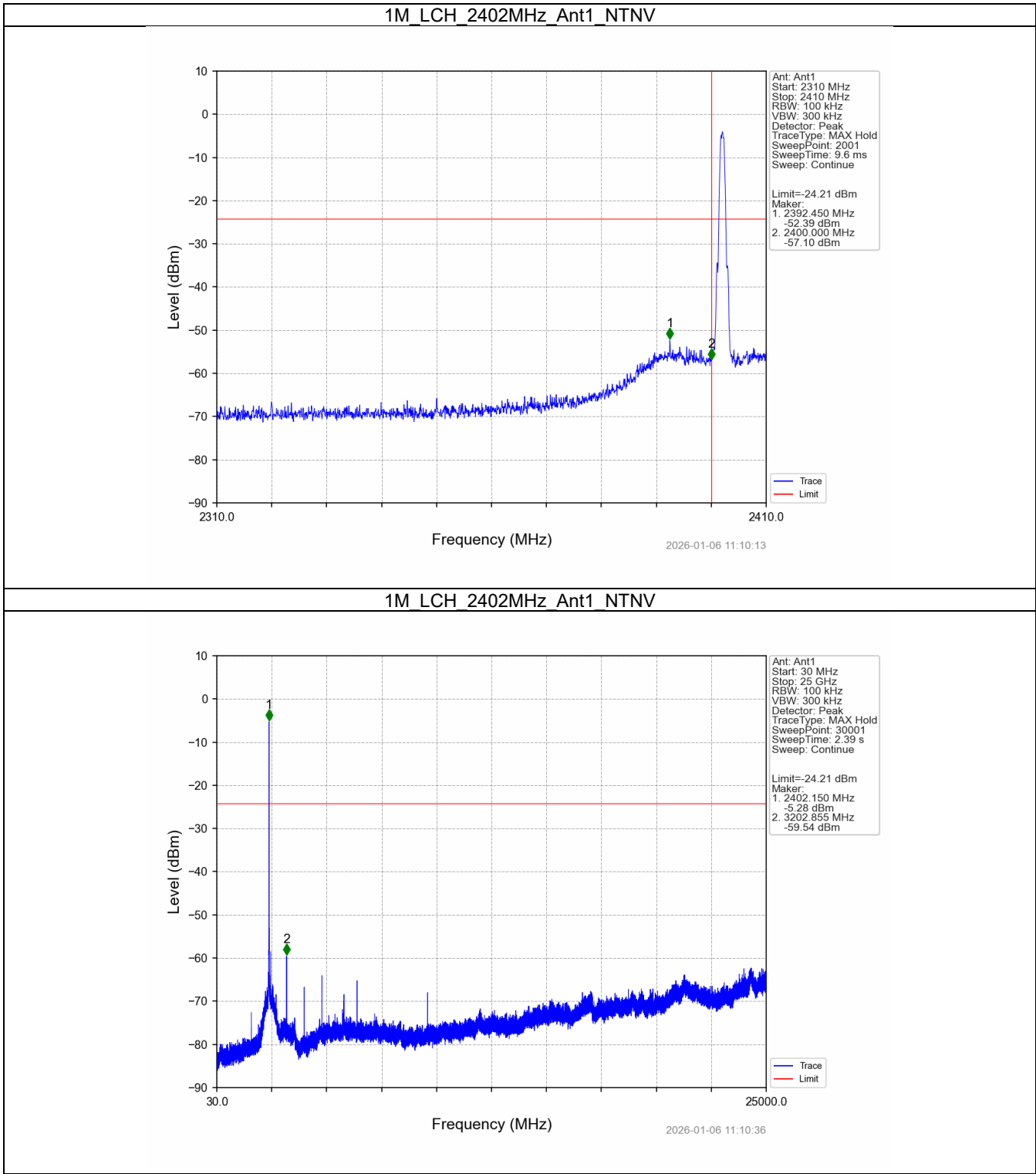
5.2.1 Ref



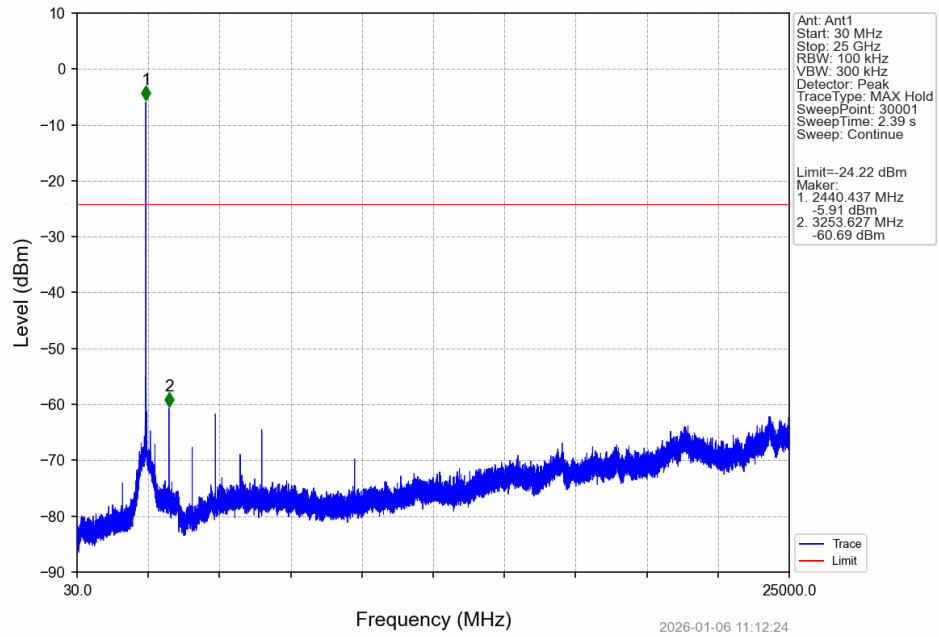
1M\_HCH\_2480MHz\_Ant1\_NTNV



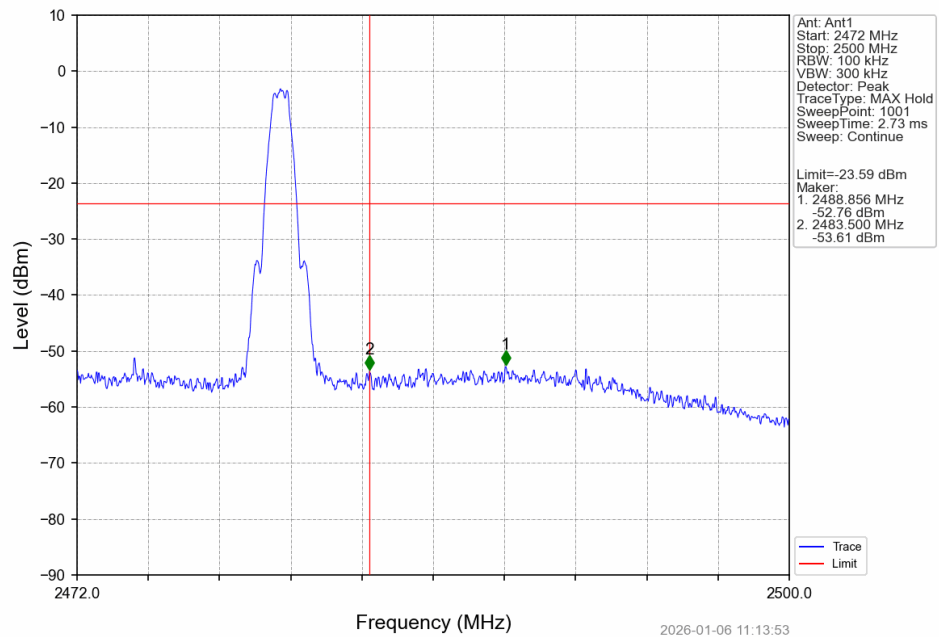
5.2.2 CSE



# 1M\_MCH\_2440MHz\_Ant1\_NTNV



# 1M\_HCH\_2480MHz\_Ant1\_NTNV



# 1M\_HCH\_2480MHz\_Ant1\_NTNV

