

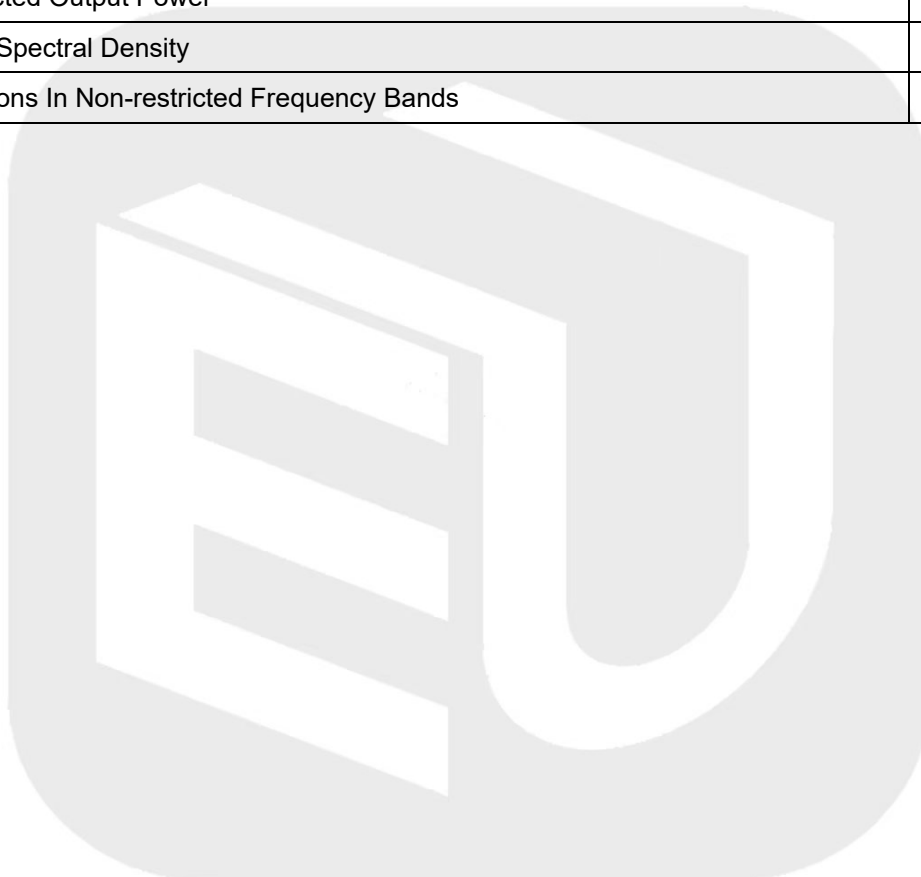
## ANNEX E TEST DATA

For

|                      |                                   |
|----------------------|-----------------------------------|
| Project No.:         | 8232EU012304W                     |
| Client:              | Shenzhen Moli Technology Co., LTD |
| Product Description: | karaoke machine                   |
| Model No.:           | KM02                              |
| FCC ID:              | 2BFYB-KM02                        |
| Technology:          | Bluetooth BLE                     |
| Test Engineer:       | <i>Mikoy zhu</i>                  |
| Test Date:           | 2024-09-24                        |

## 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   |



## 1. Duty Cycle

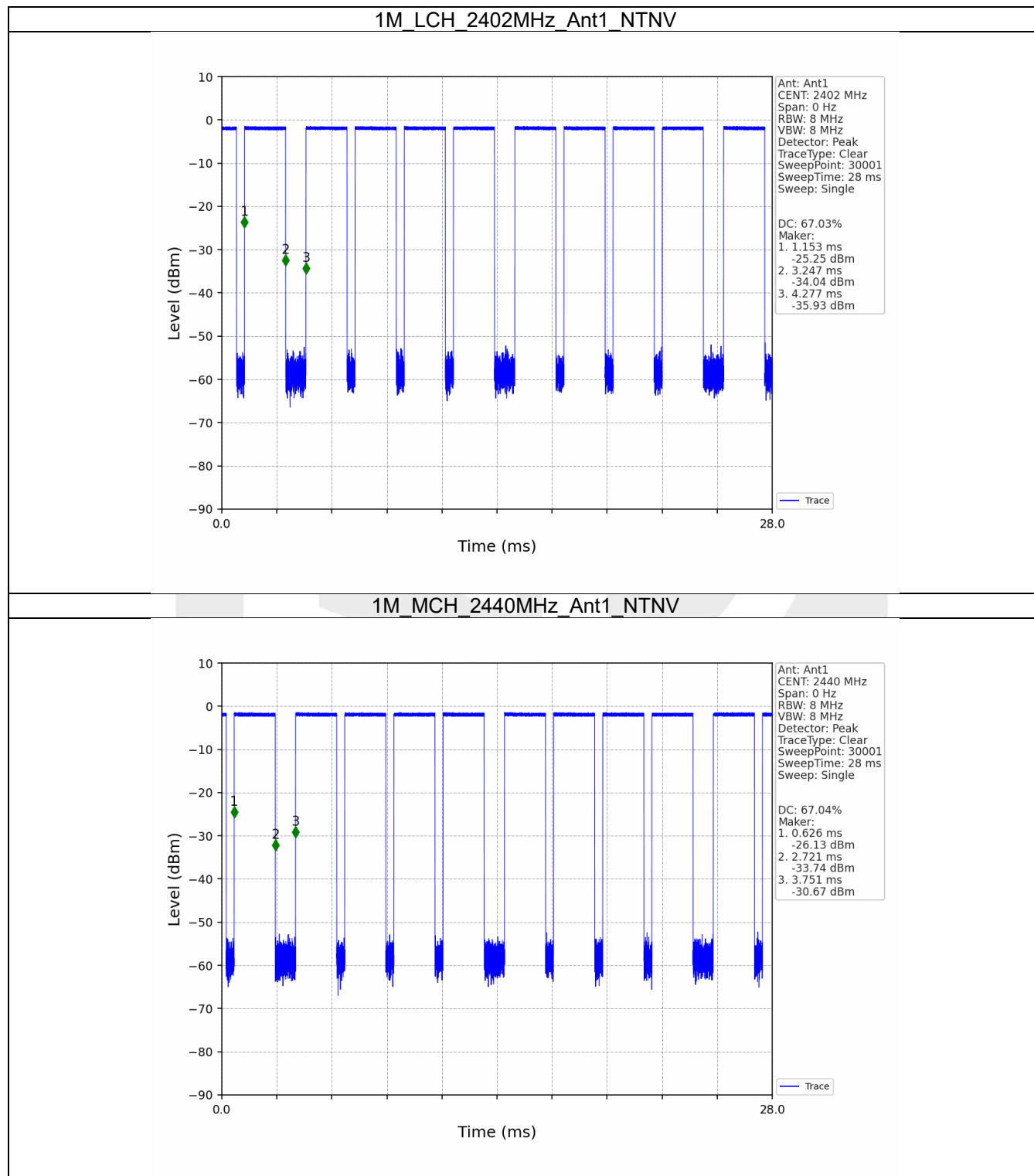
### 1.1 Test Result

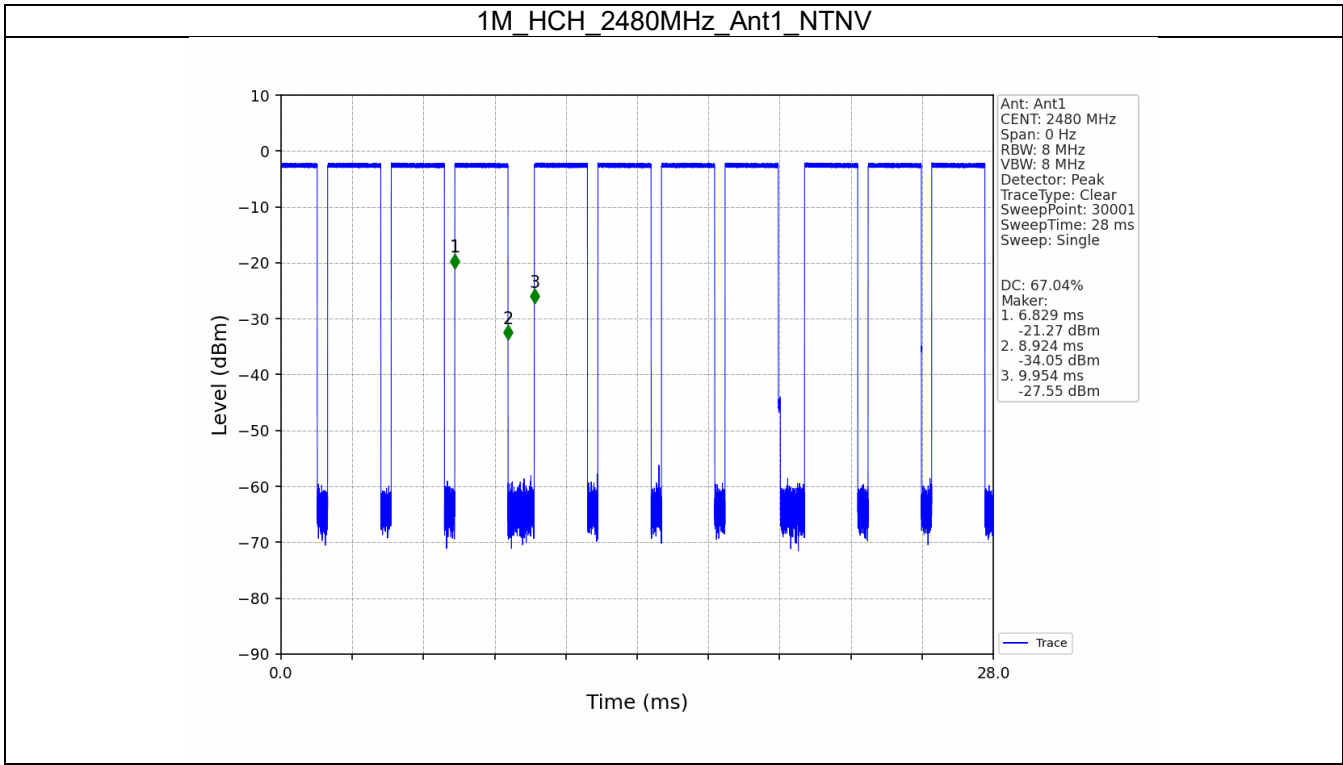
#### 1.1.1 Ant1

| Ant1 |         |                 |           |             |                |                                   |                       |
|------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 1M   | SISO    | 2402            | 2.094     | 3.124       | 67.03          | 1.74                              | 16.78                 |
|      |         | 2440            | 2.095     | 3.125       | 67.04          | 1.74                              | 16.78                 |
|      |         | 2480            | 2.095     | 3.125       | 67.04          | 1.74                              | 16.78                 |

## 1.2 Test Graph

### 1.2.1 Ant1





## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

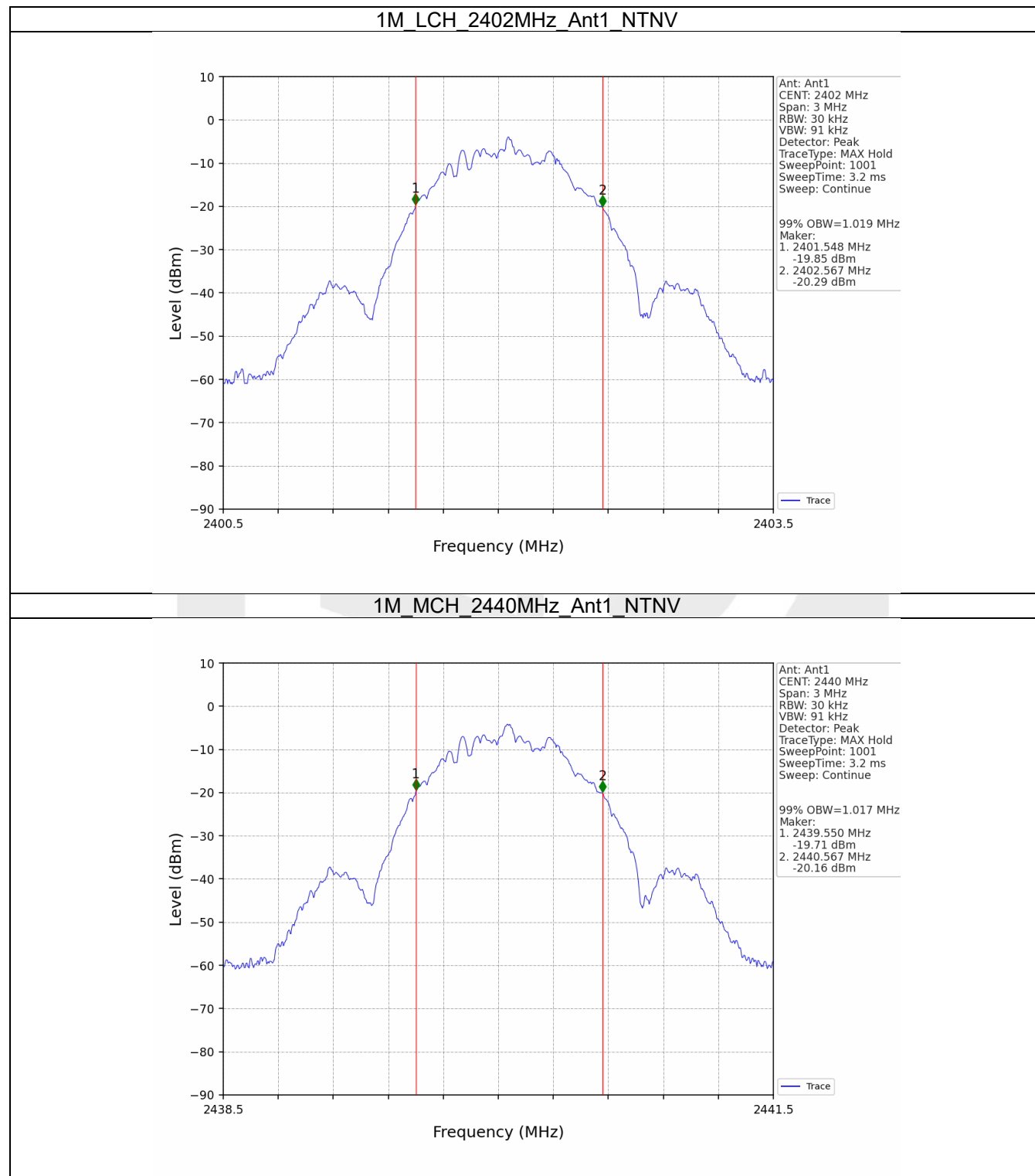
| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------|---------|-----------------|-----|------------------------------|-------|---------|
|      |         |                 |     | Result                       | Limit |         |
| 1M   | SISO    | 2402            | 1   | 1.019                        | /     | Pass    |
|      |         | 2440            | 1   | 1.017                        | /     | Pass    |
|      |         | 2480            | 1   | 1.020                        | /     | Pass    |

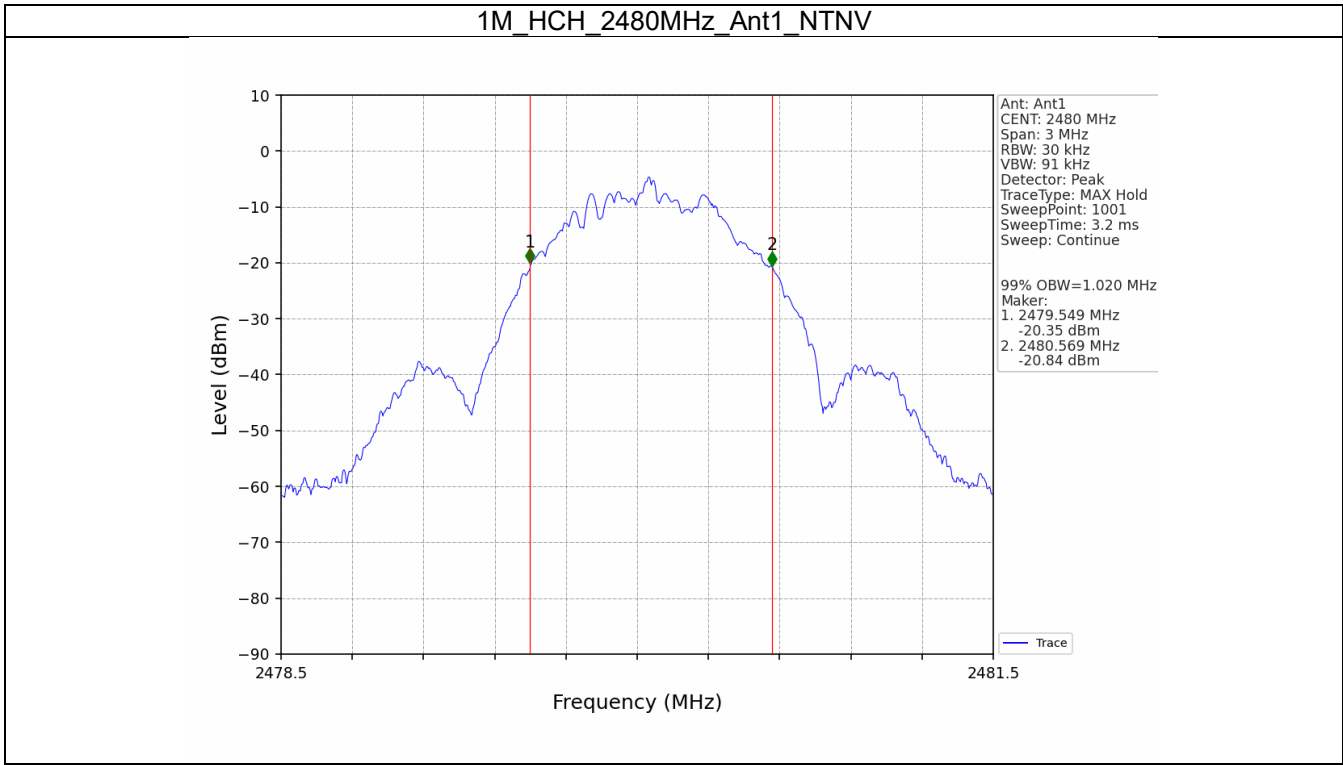
#### 2.1.2 6dB BW

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| 1M   | SISO    | 2402            | 1   | 0.643               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 0.650               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 0.647               | $\geq 0.5$ | Pass    |

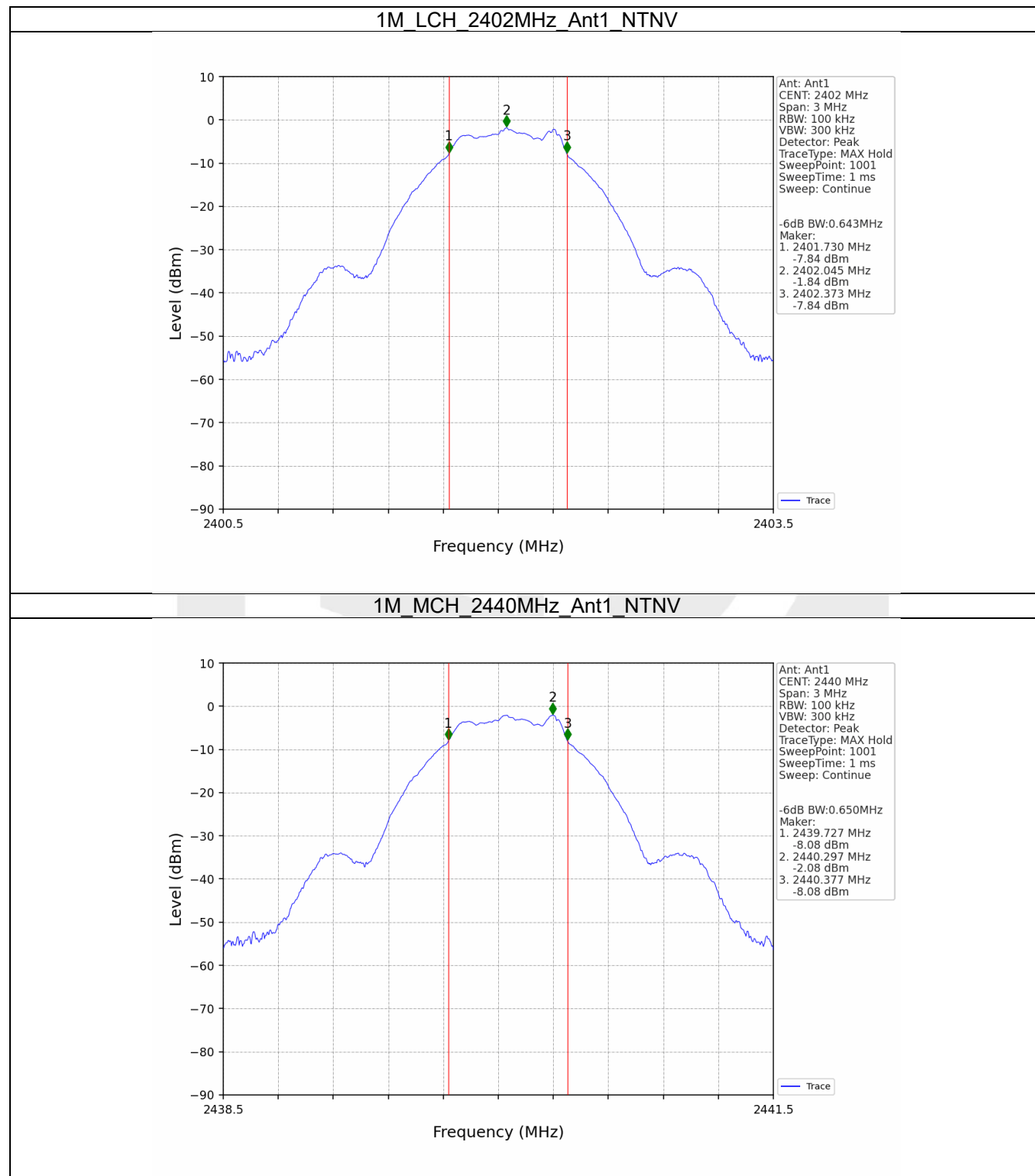
## 2.2 Test Graph

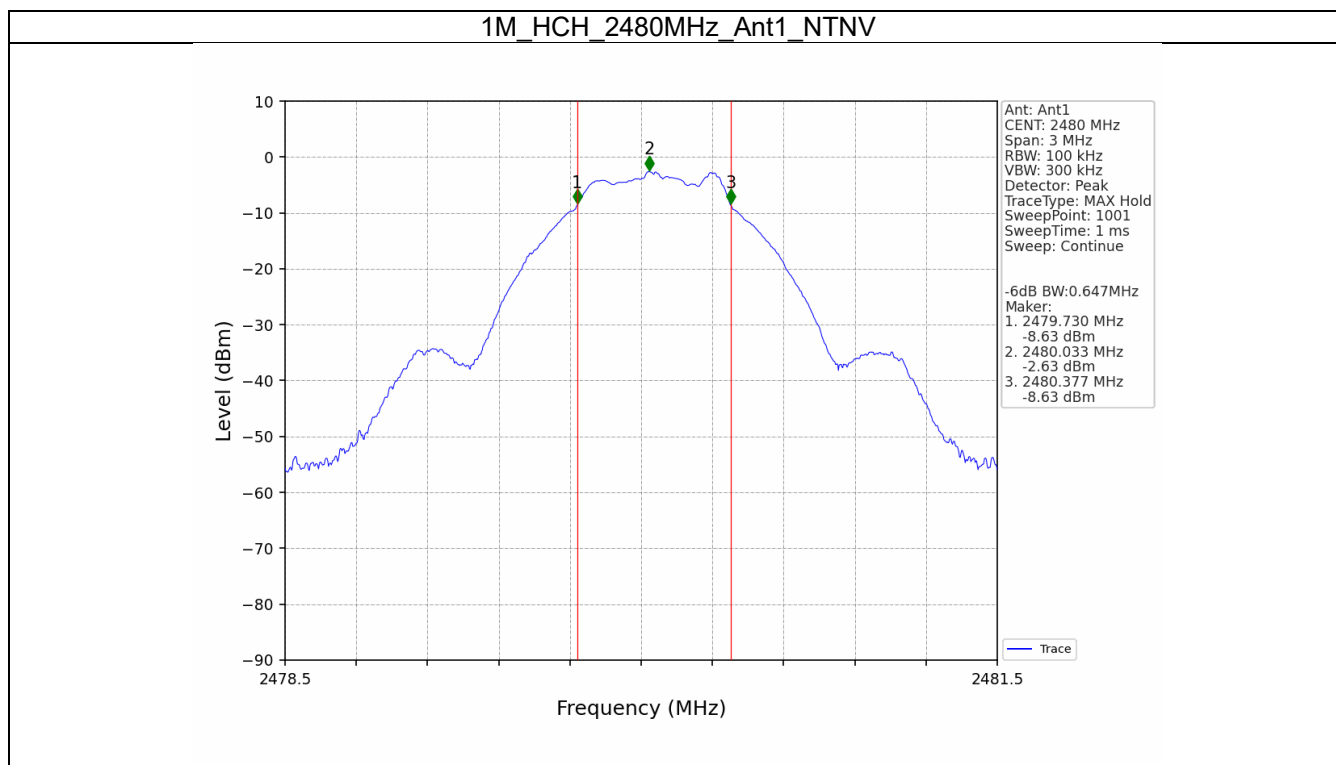
### 2.2.1 OBW





### 2.2.2 6dB BW





### 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            | -1.57                                     | <=30  | Pass    |
|      |         | 2440            | -1.53                                     | <=30  | Pass    |
|      |         | 2480            | -2.18                                     | <=30  | Pass    |

#### 4. Maximum Power Spectral Density

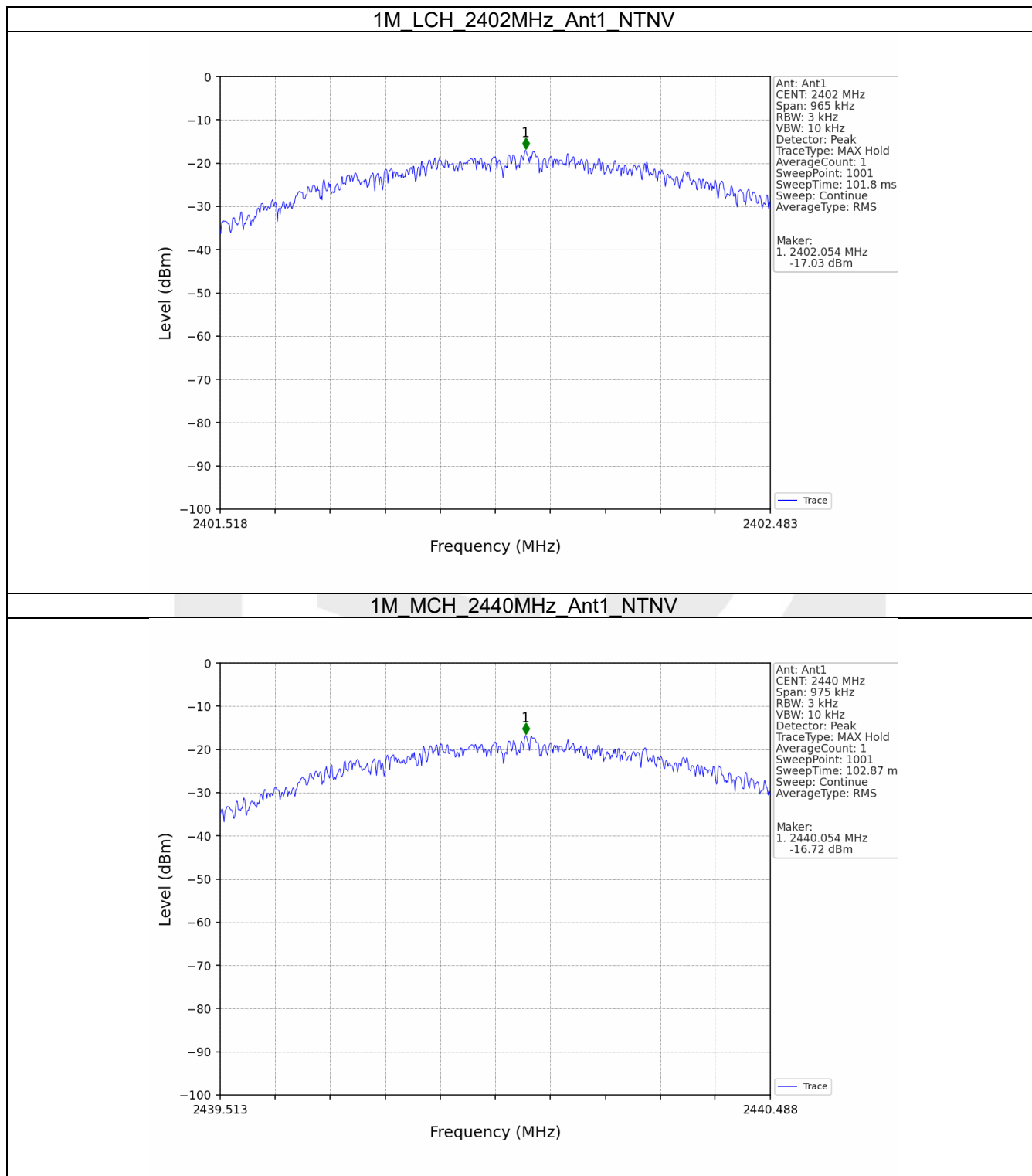
##### 4.1 Test Result

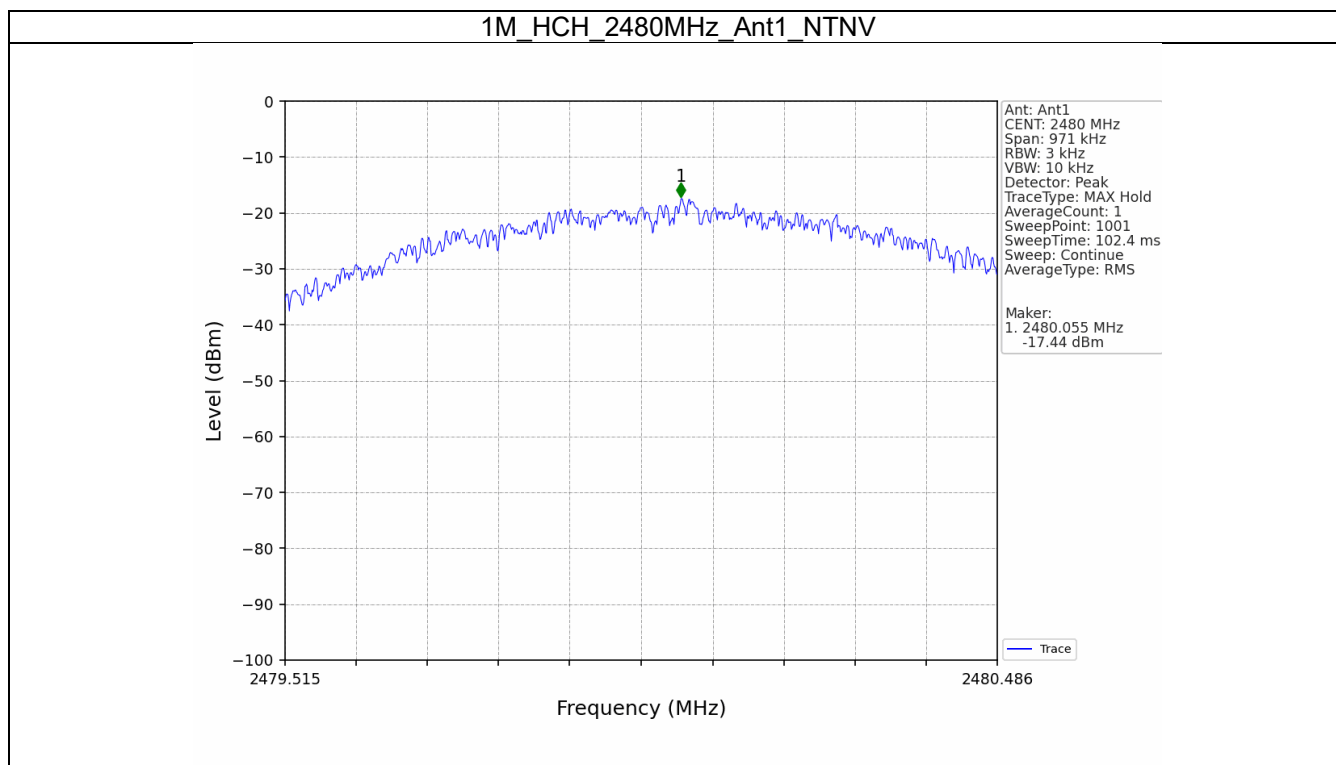
##### 4.1.1 PSD

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       | Verdict |
|------|---------|-----------------|------------------------|-------|---------|
|      |         |                 | ANT1                   | Limit |         |
| 1M   | SISO    | 2402            | -17.03                 | <=8   | Pass    |
|      |         | 2440            | -16.72                 | <=8   | Pass    |
|      |         | 2480            | -17.44                 | <=8   | Pass    |

## 4.2 Test Graph

### 4.2.1 PSD





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

### 5.1 Test Result

#### 5.1.1 Ref

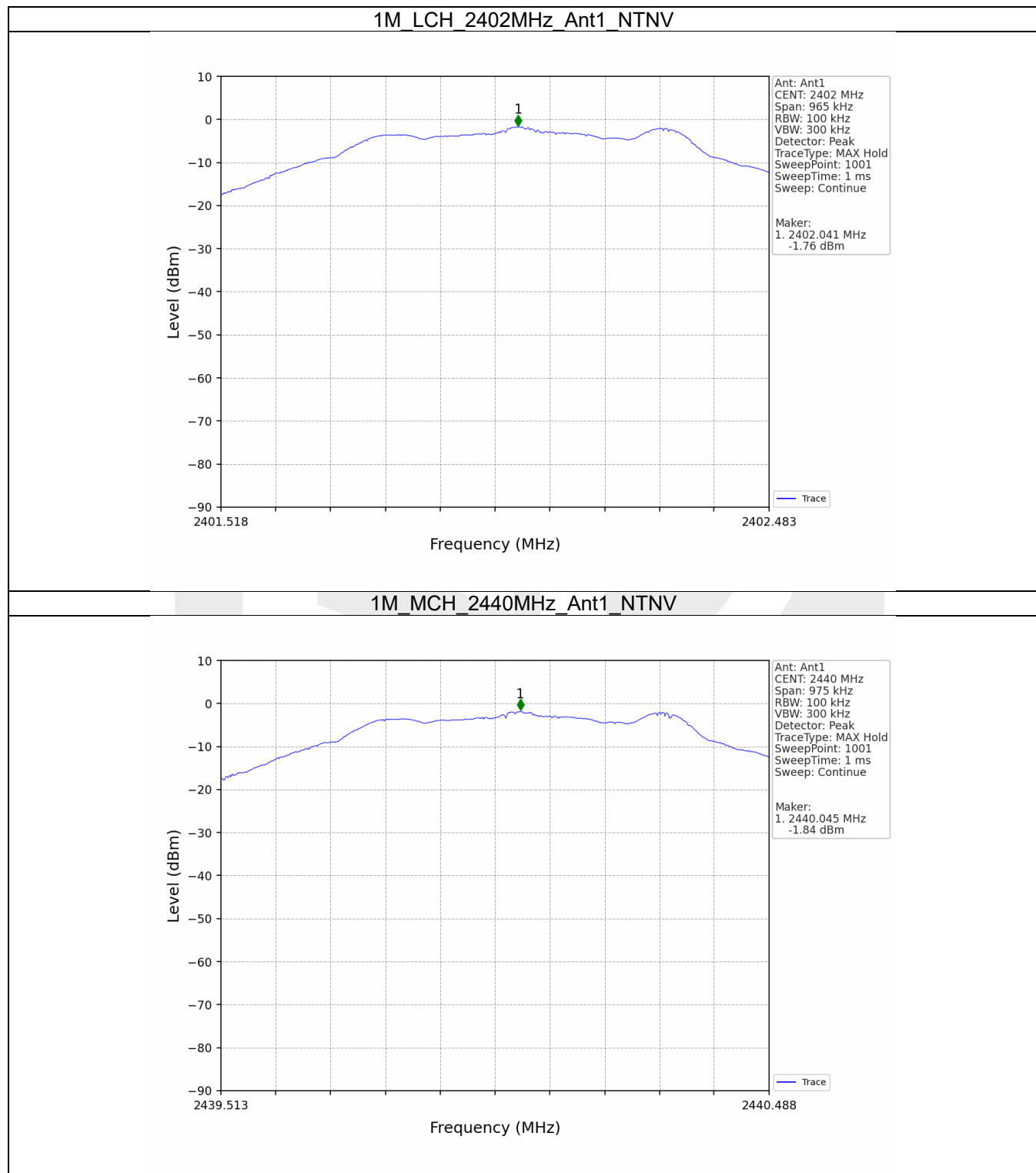
| Mode                                                                                                                                            | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|
| 1M                                                                                                                                              | SISO    | 2402            | 1   | -1.76                    |
|                                                                                                                                                 |         | 2440            | 1   | -1.84                    |
|                                                                                                                                                 |         | 2480            | 1   | -2.45                    |
| 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. |         |                 |     |                          |

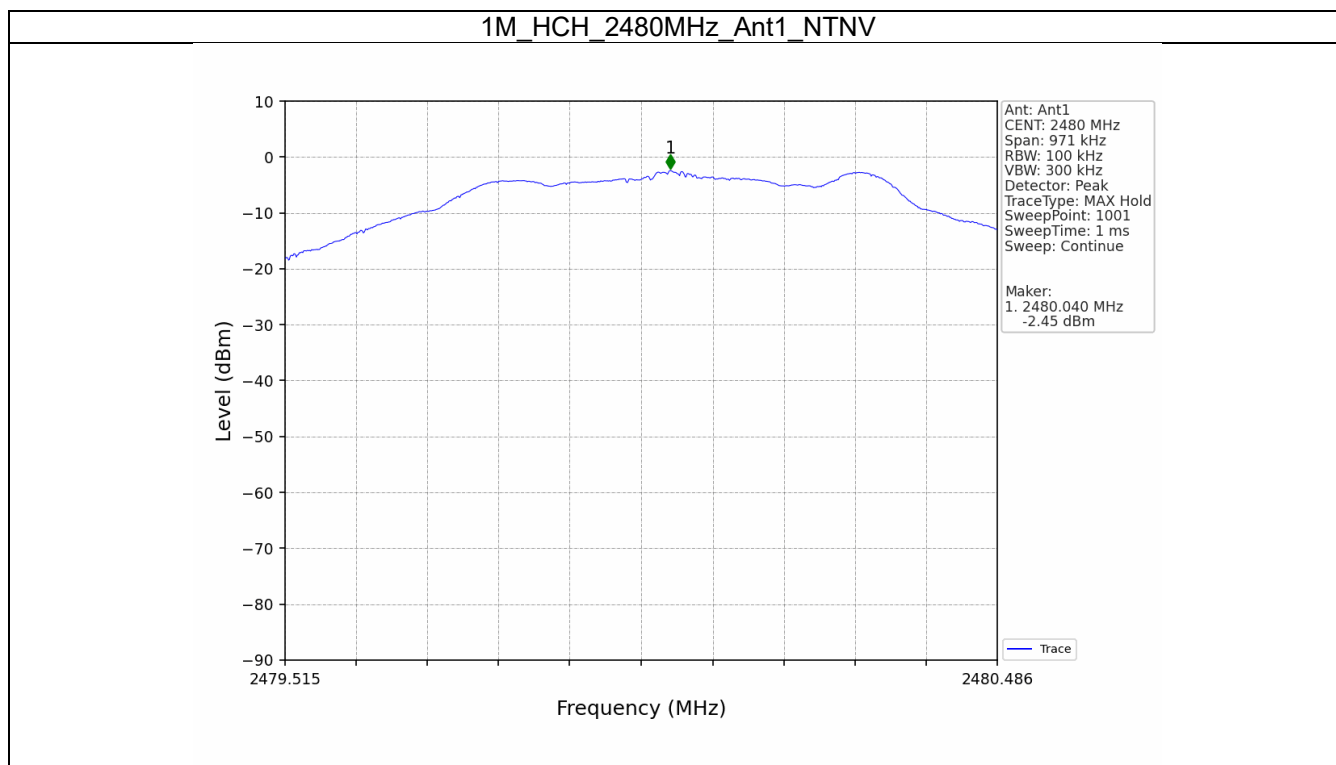
#### 5.1.2 CSE

| Mode                                                                                                                                            | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M                                                                                                                                              | SISO    | 2402            | 1   | -1.76                    | -21.76      | Pass    |
|                                                                                                                                                 |         | 2440            | 1   | -1.84                    | -21.84      | Pass    |
|                                                                                                                                                 |         | 2480            | 1   | -2.45                    | -22.45      | 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. |         |                 |     |                          |             |         |

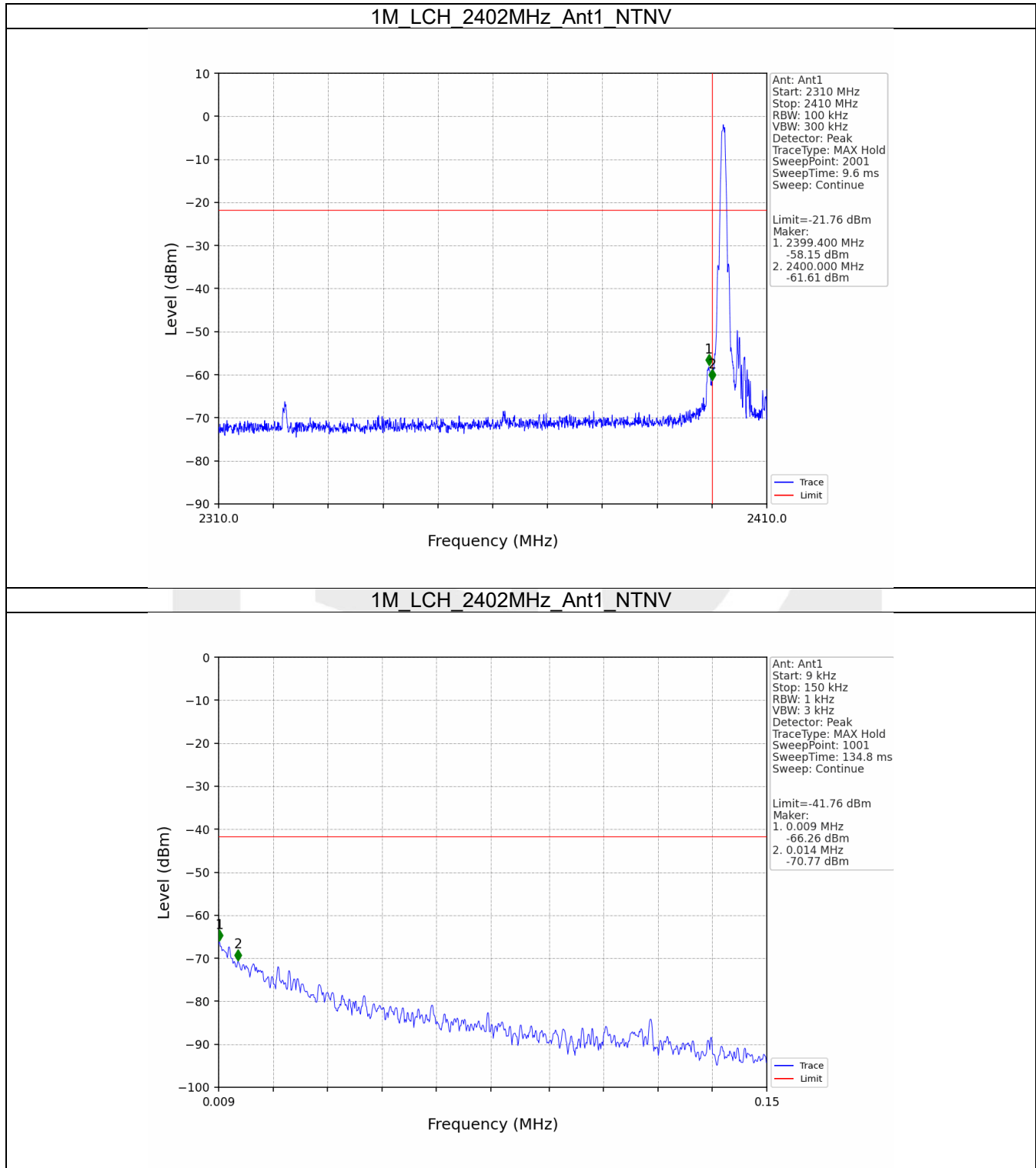
## 5.2 Test Graph

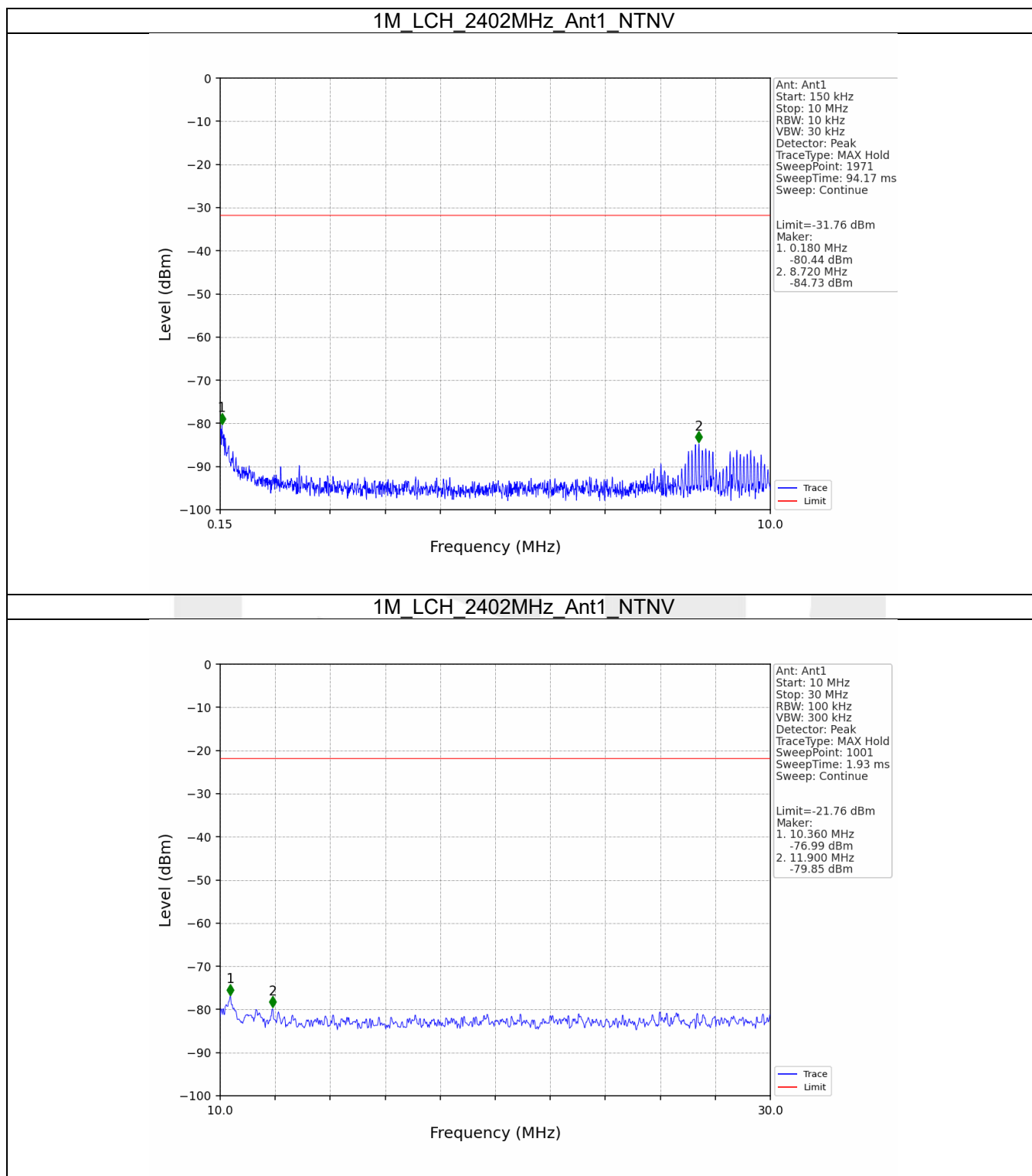
### 5.2.1 Ref

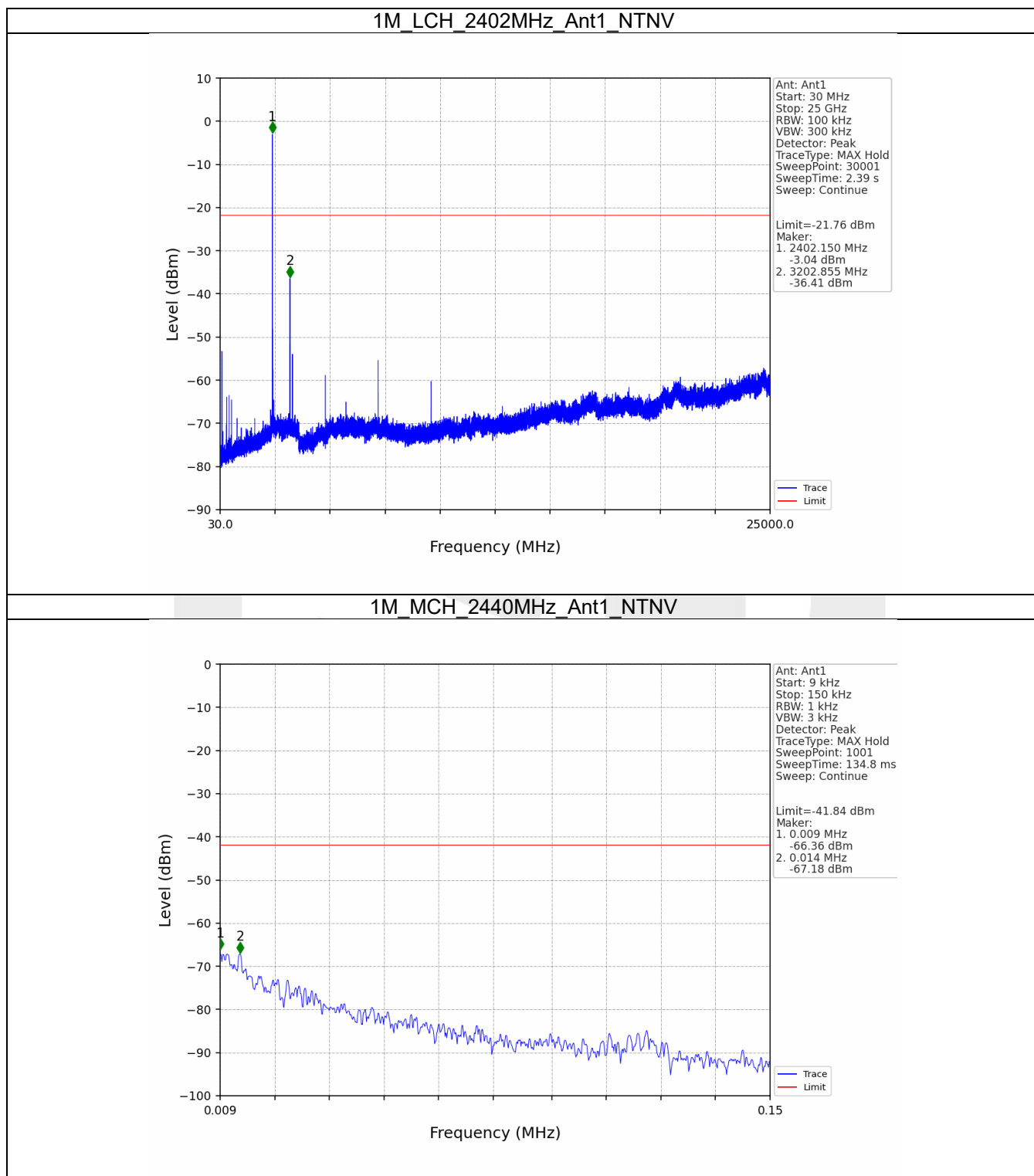


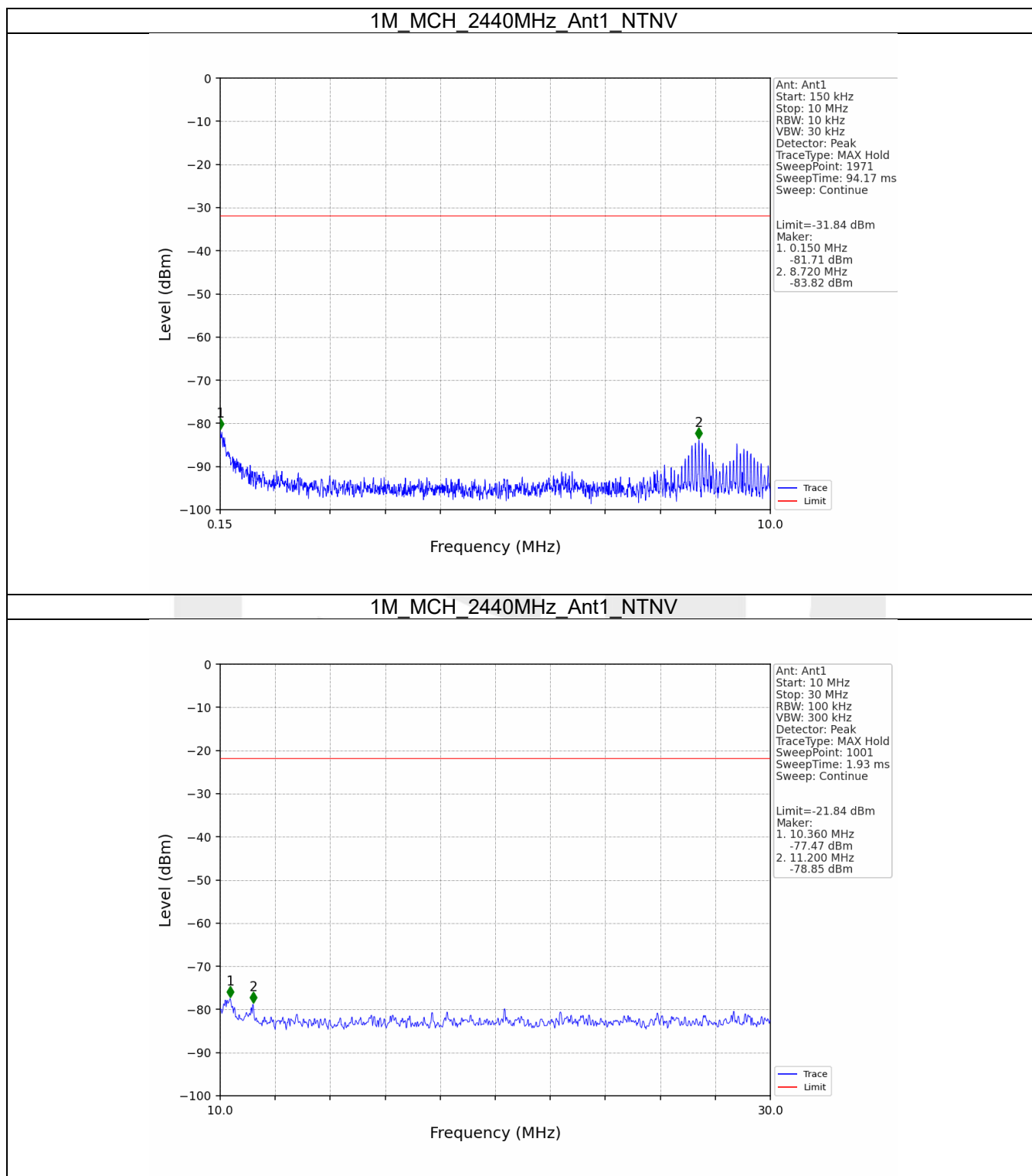


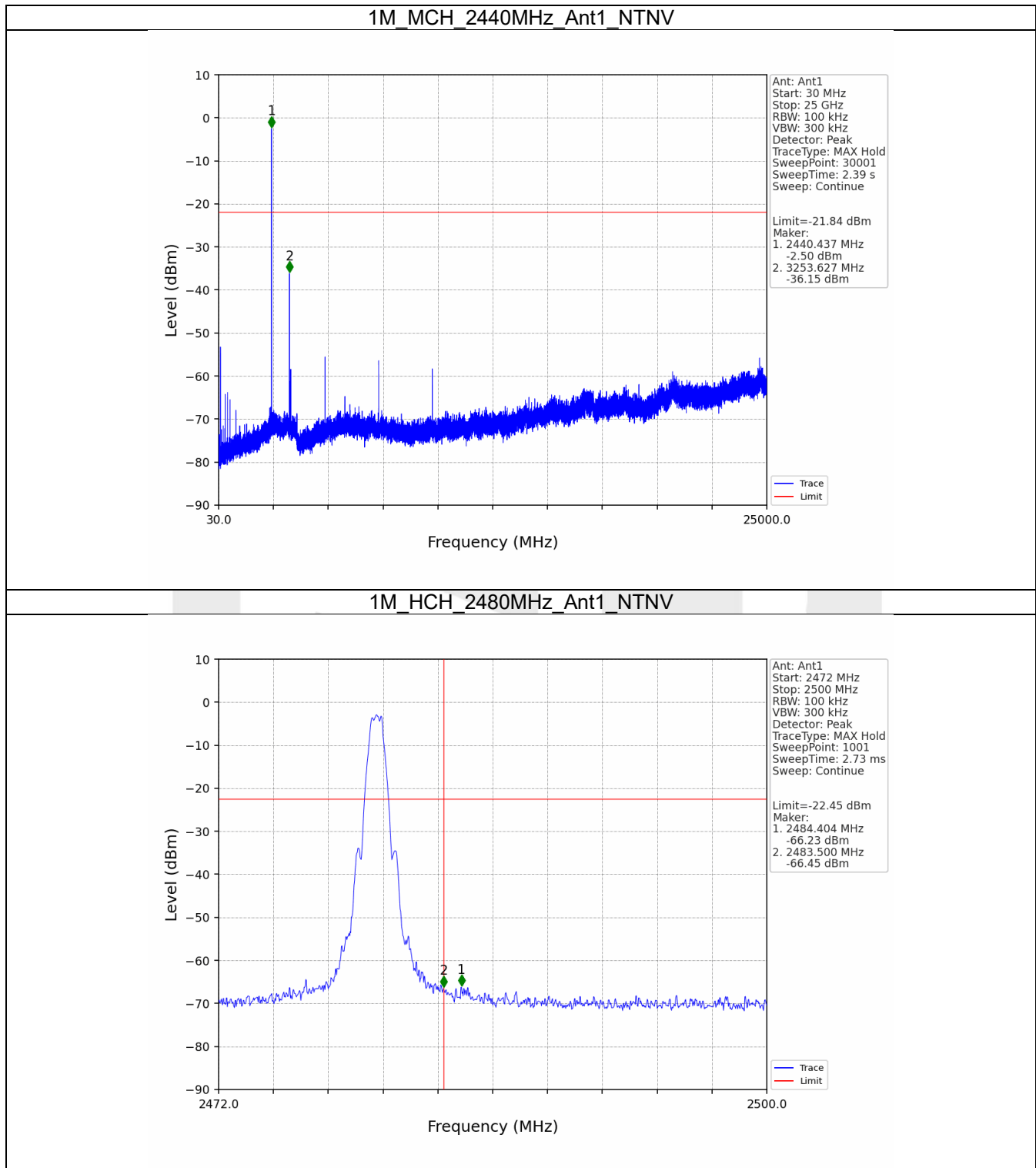
### 5.2.2 CSE

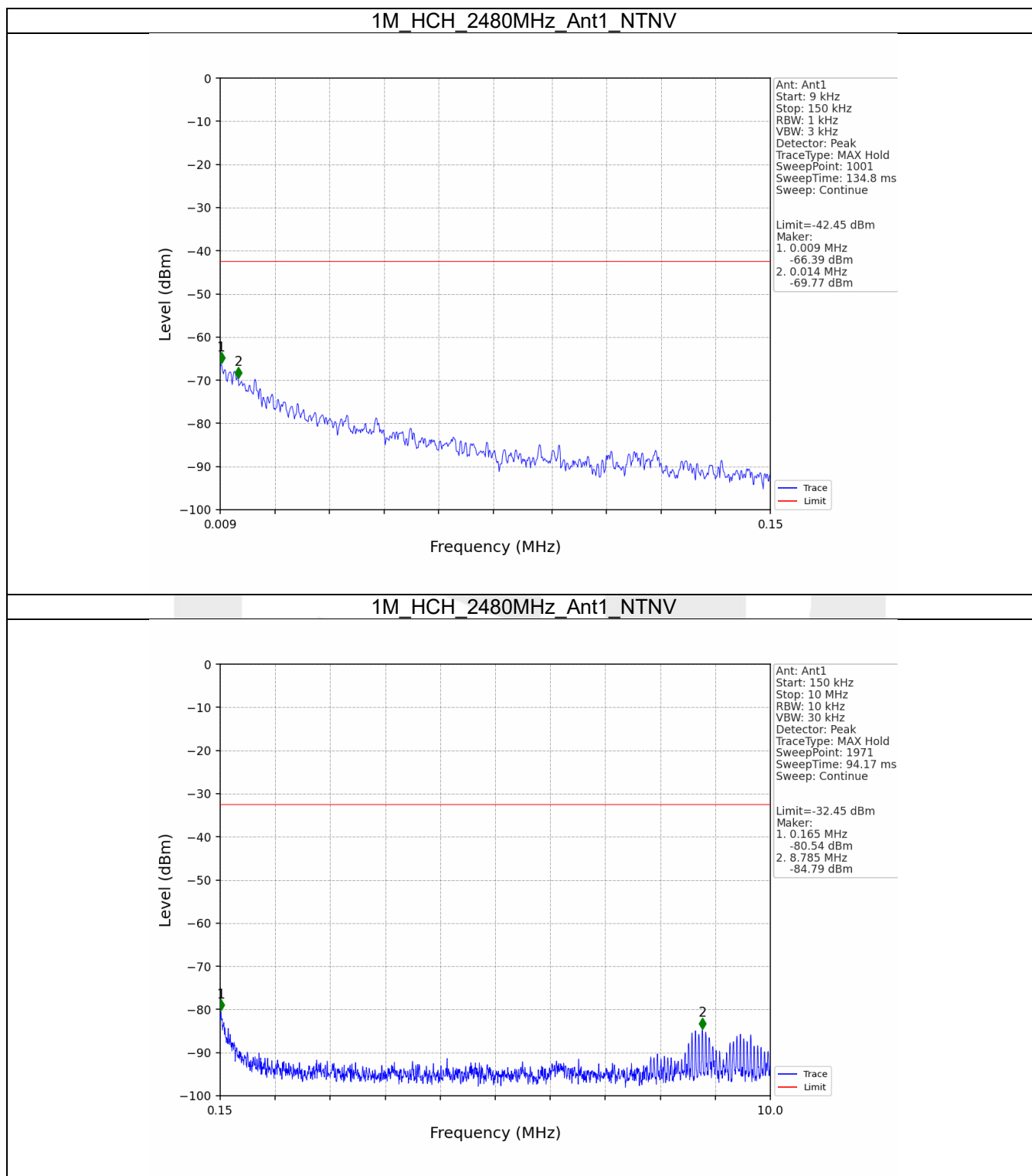


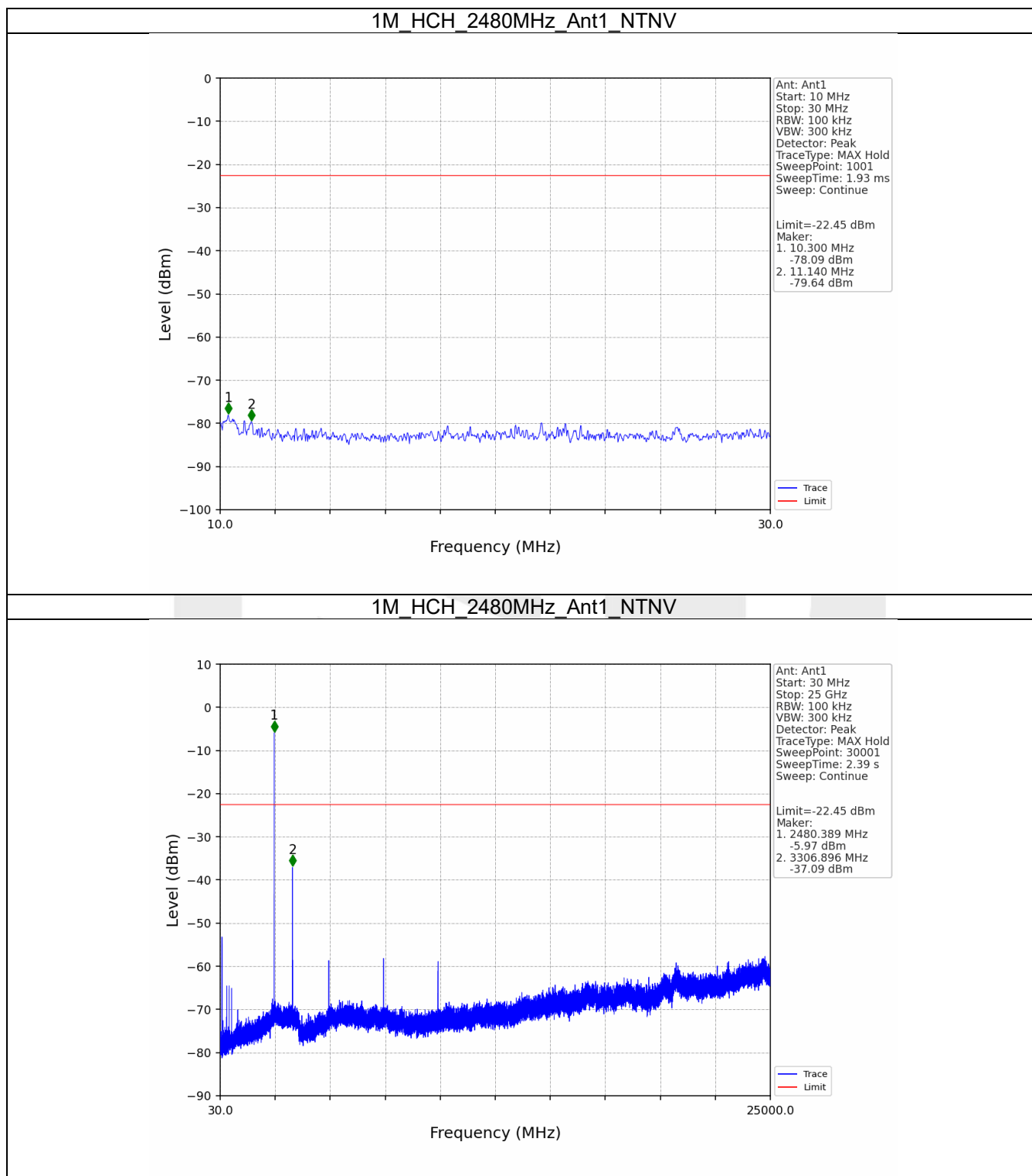












----- End of Report -----