

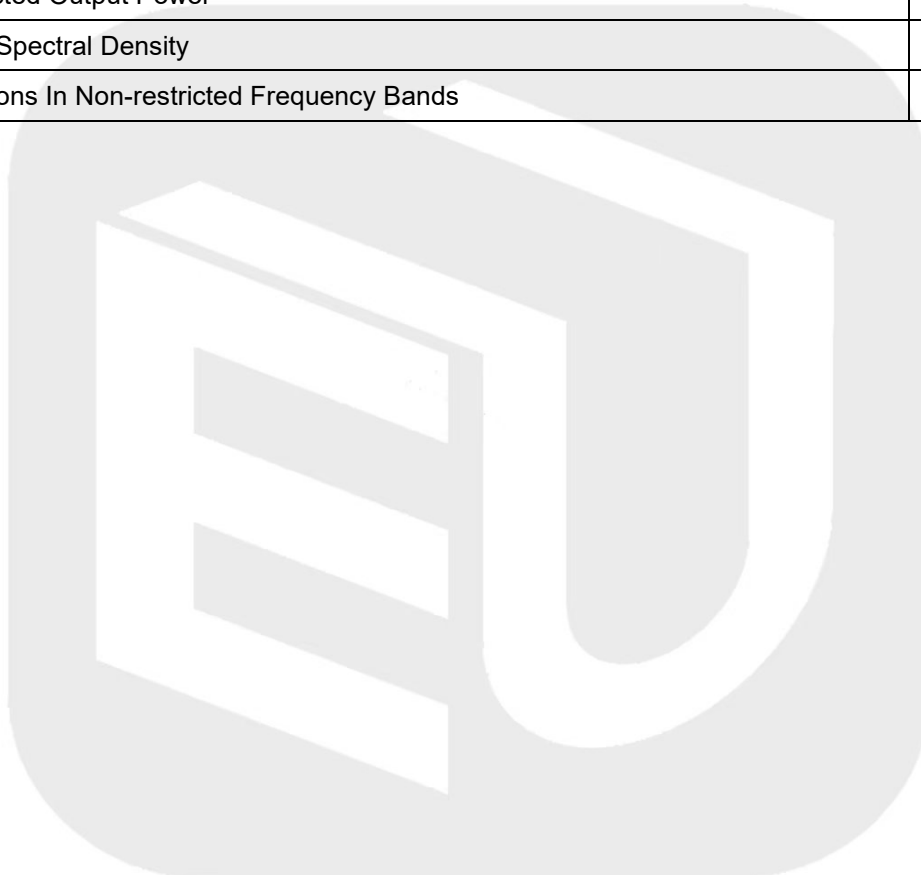
## ANNEX D TEST DATA

### For

|                |                                 |
|----------------|---------------------------------|
| Project No.:   | 8225EU011603W                   |
| Client:        | Shenzhen Qianyan Technology LTD |
| Product Name:  | Govee RGB LED Strip Light       |
| Model No.:     | H613G                           |
| FCC ID:        | 2A7VD-H613EA                    |
| Technology:    | Bluetooth BLE                   |
| Test Engineer: | <i>Mikoy zhu</i>                |
| Test Date:     | 2024-08-16                      |

## 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

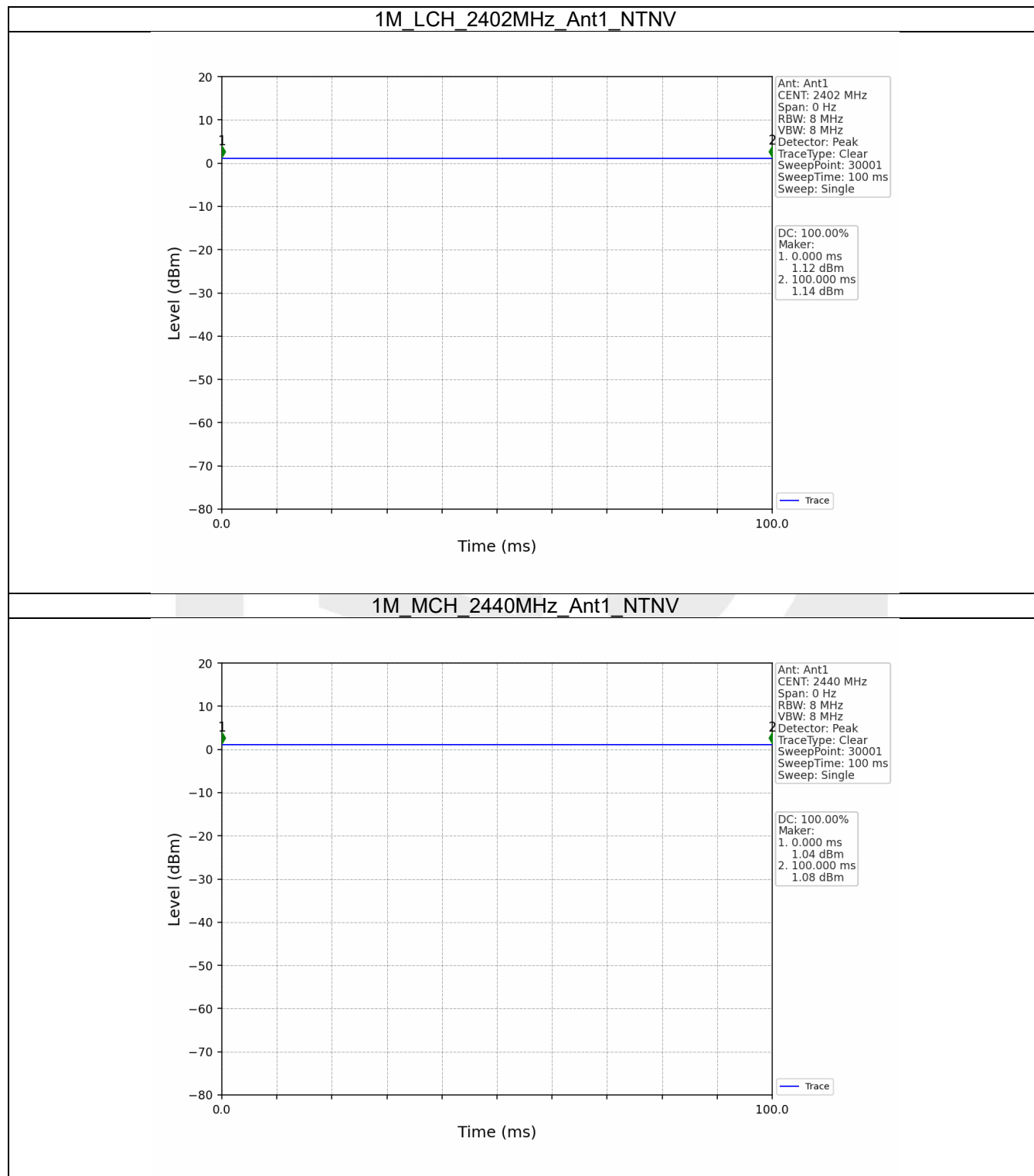
### 1.1 Test Result

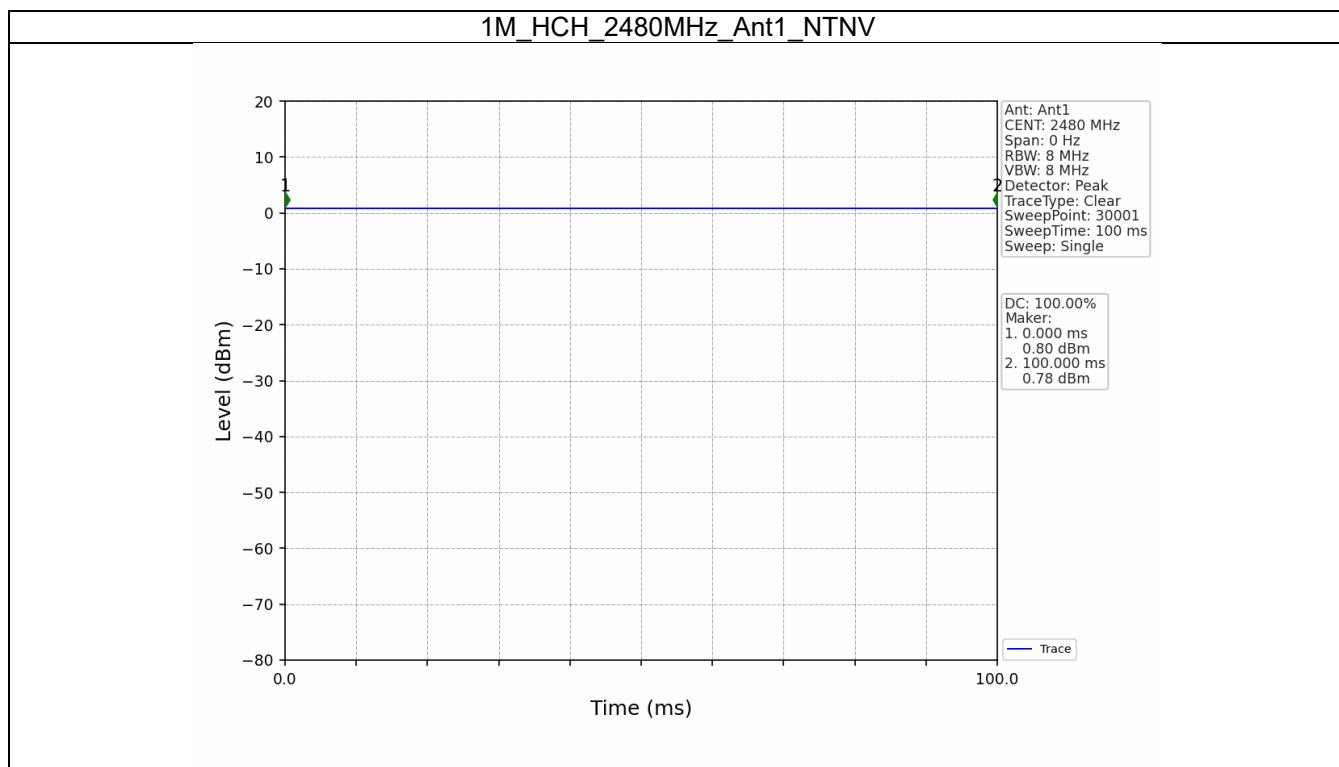
#### 1.1.1 Ant1

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





## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

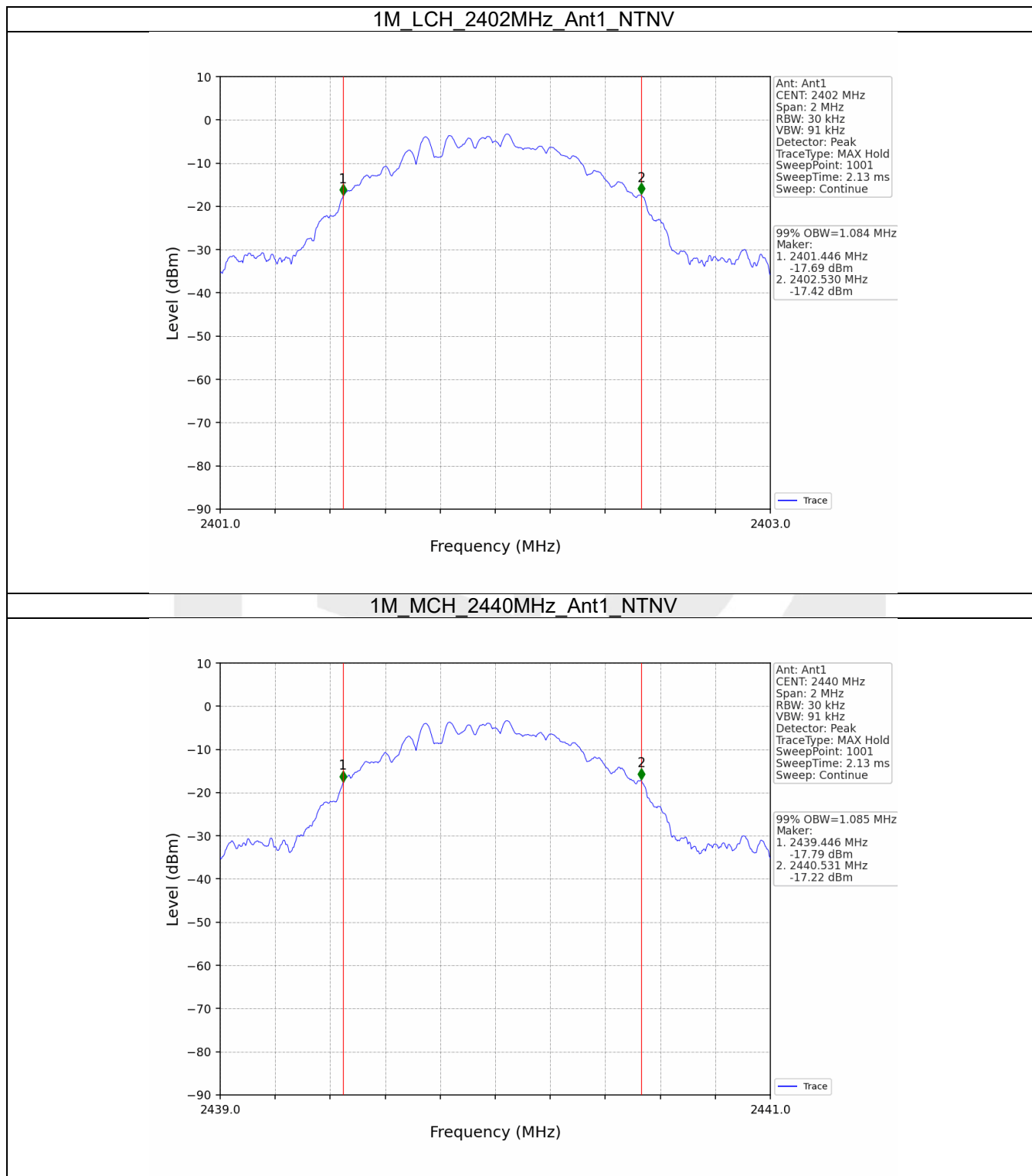
| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------|---------|-----------------|-----|------------------------------|-------|---------|
|      |         |                 |     | Result                       | Limit |         |
| 1M   | SISO    | 2402            | 1   | 1.084                        | /     | Pass    |
|      |         | 2440            | 1   | 1.085                        | /     | Pass    |
|      |         | 2480            | 1   | 1.096                        | /     | Pass    |

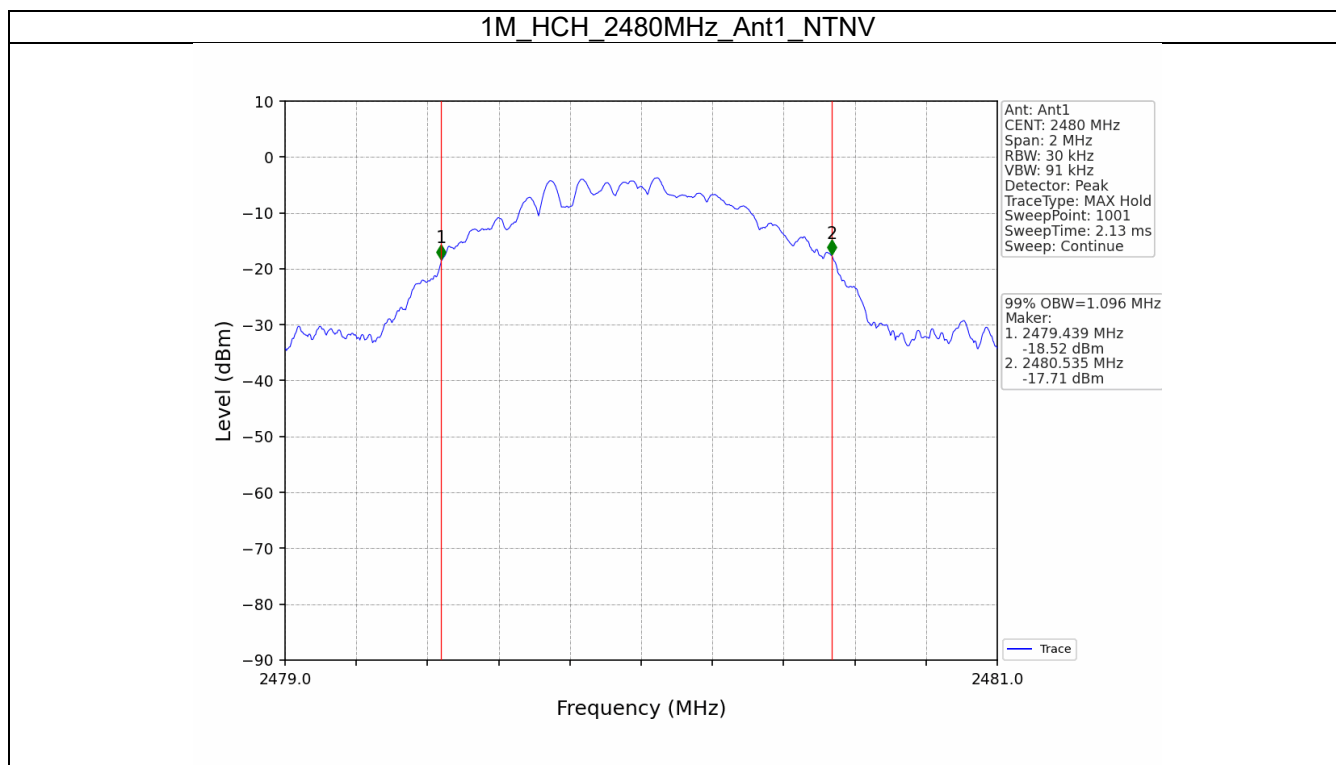
#### 2.1.2 6dB BW

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| 1M   | SISO    | 2402            | 1   | 0.681               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 0.675               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 0.680               | $\geq 0.5$ | Pass    |

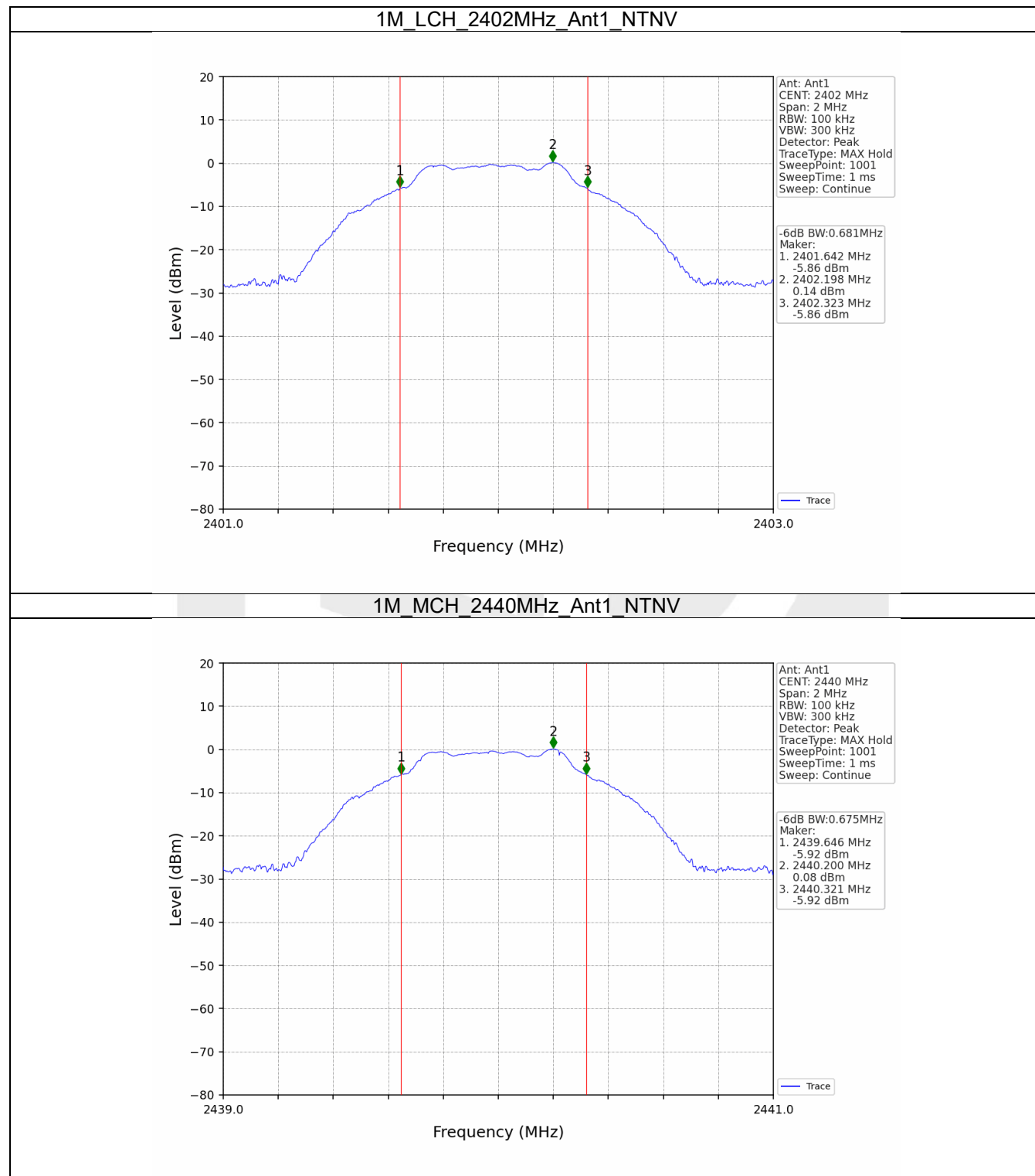
## 2.2 Test Graph

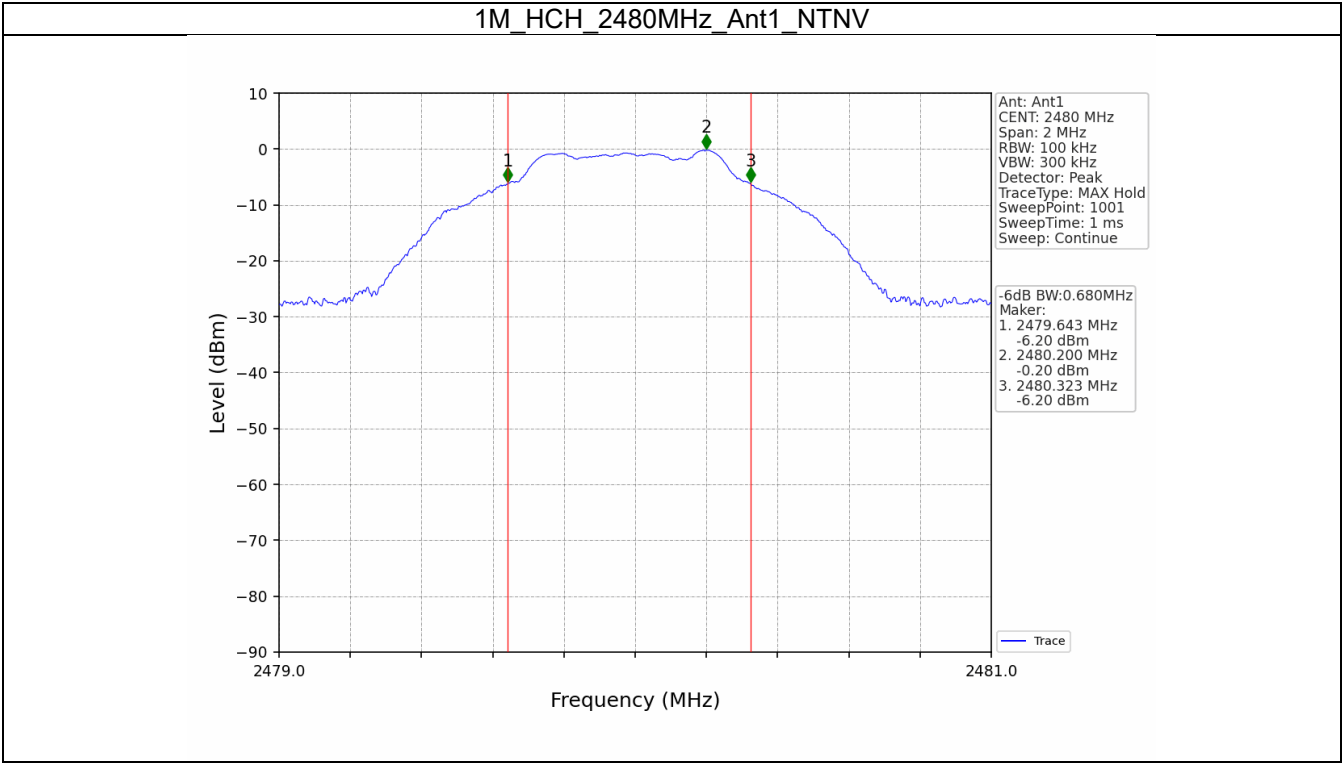
### 2.2.1 OBW





## 2.2.2 6dB BW





### 3. Maximum Conducted Output Power

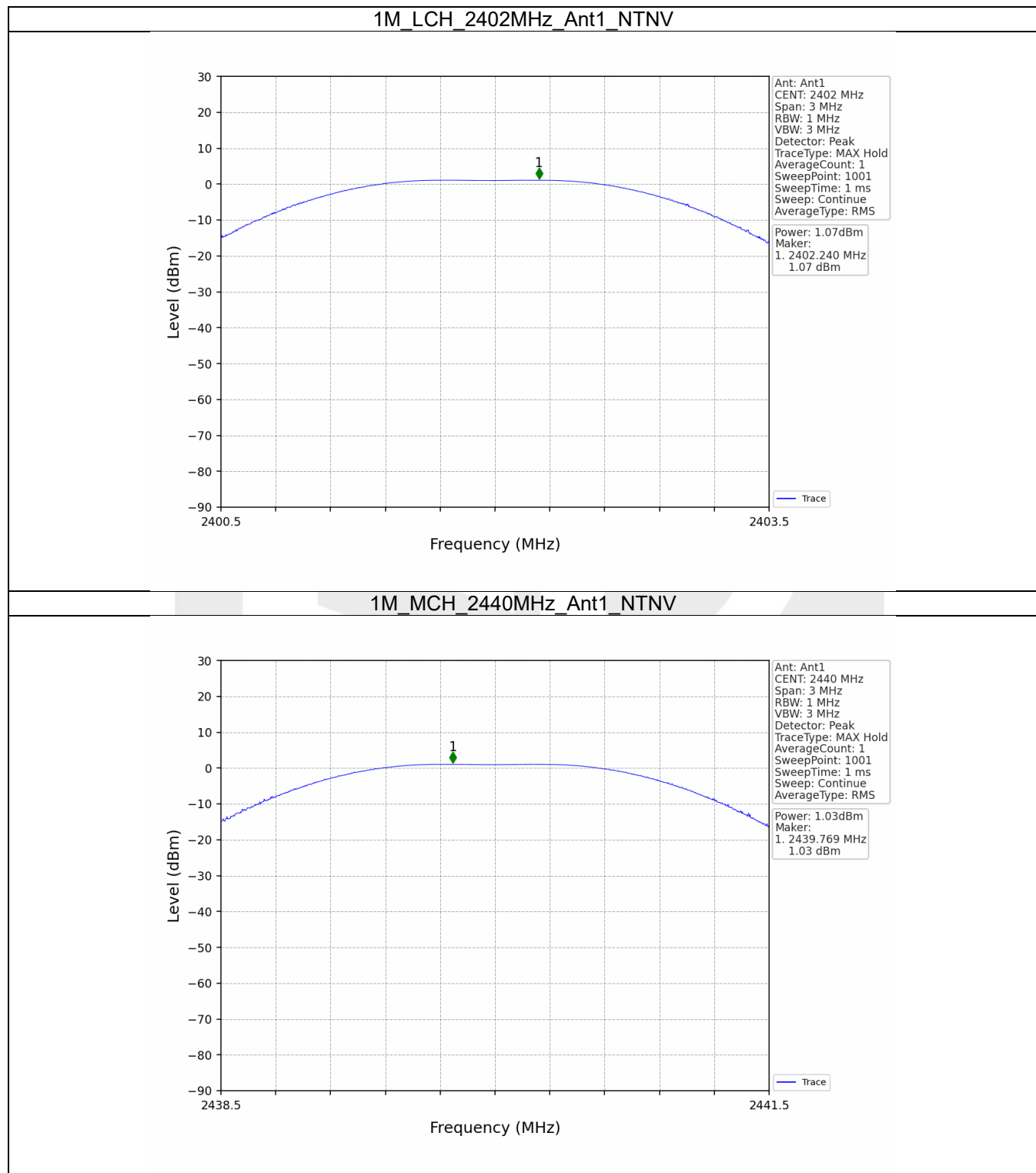
#### 3.1 Test Result

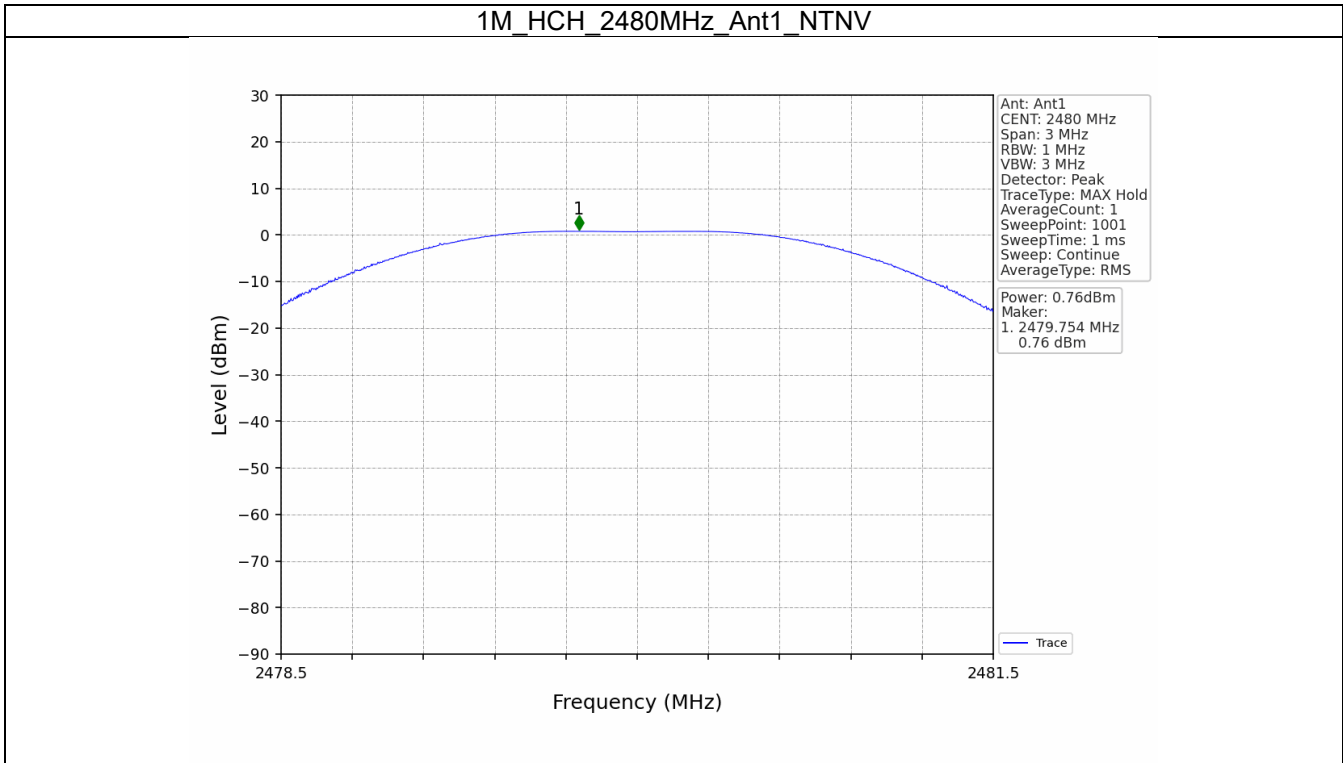
##### 3.1.1 Power

| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|------|---------|-----------------|-------------------------------------------|-------|---------|
|      |         |                 | ANT1                                      | Limit |         |
| 1M   | SISO    | 2402            | 1.07                                      | <=30  | Pass    |
|      |         | 2440            | 1.03                                      | <=30  | Pass    |
|      |         | 2480            | 0.76                                      | <=30  | Pass    |

### 3.2 Test Graph

#### 3.2.1 Power





#### 4. Maximum Power Spectral Density

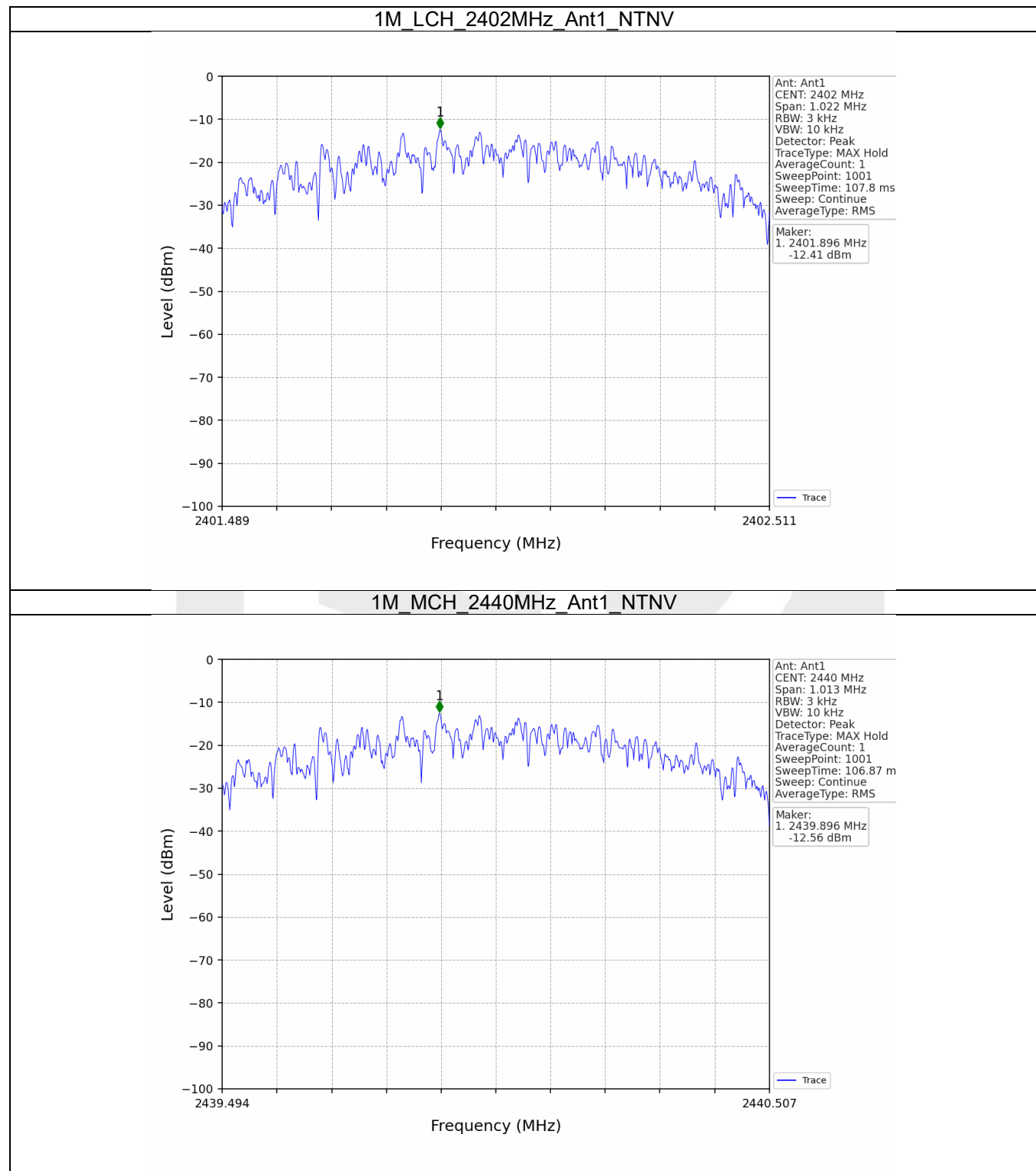
##### 4.1 Test Result

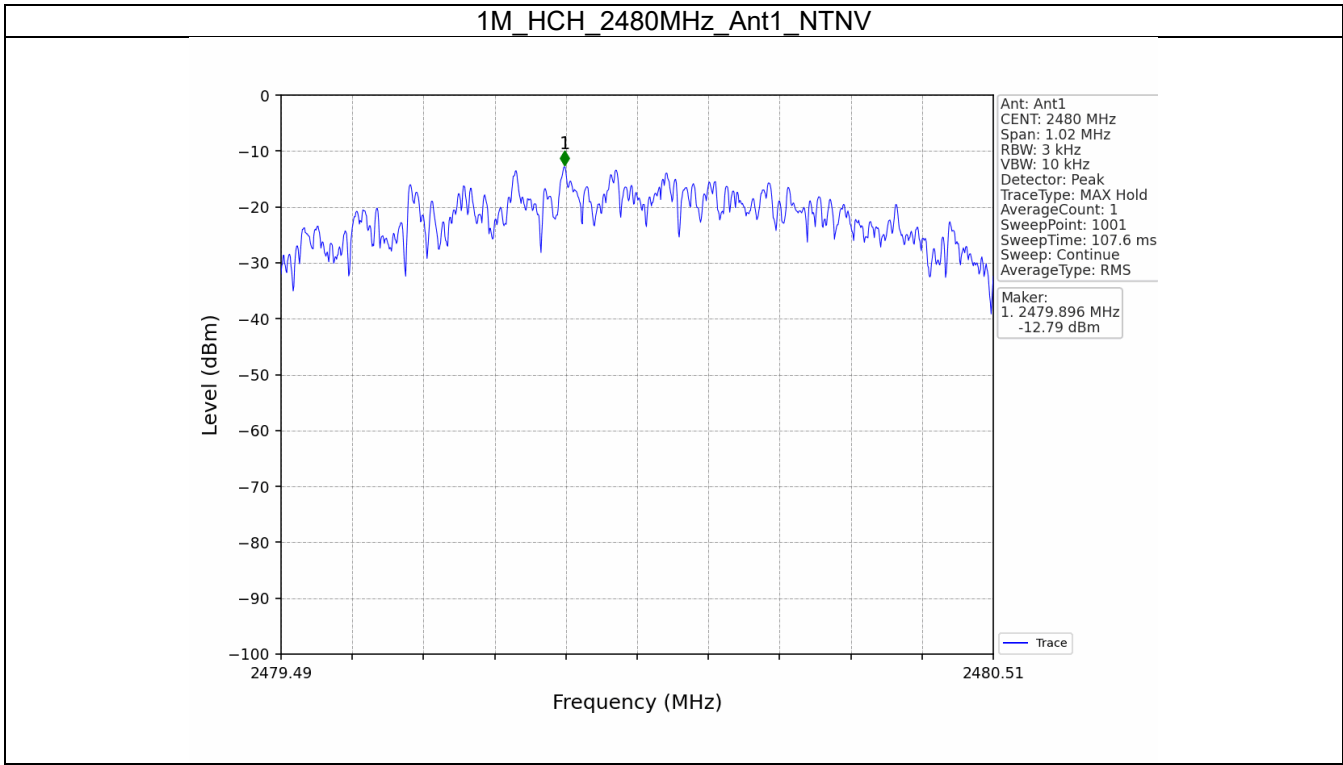
##### 4.1.1 PSD

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       | Verdict |
|------|---------|-----------------|------------------------|-------|---------|
|      |         |                 | ANT1                   | Limit |         |
| 1M   | SISO    | 2402            | -12.41                 | <=8   | Pass    |
|      |         | 2440            | -12.56                 | <=8   | Pass    |
|      |         | 2480            | -12.79                 | <=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

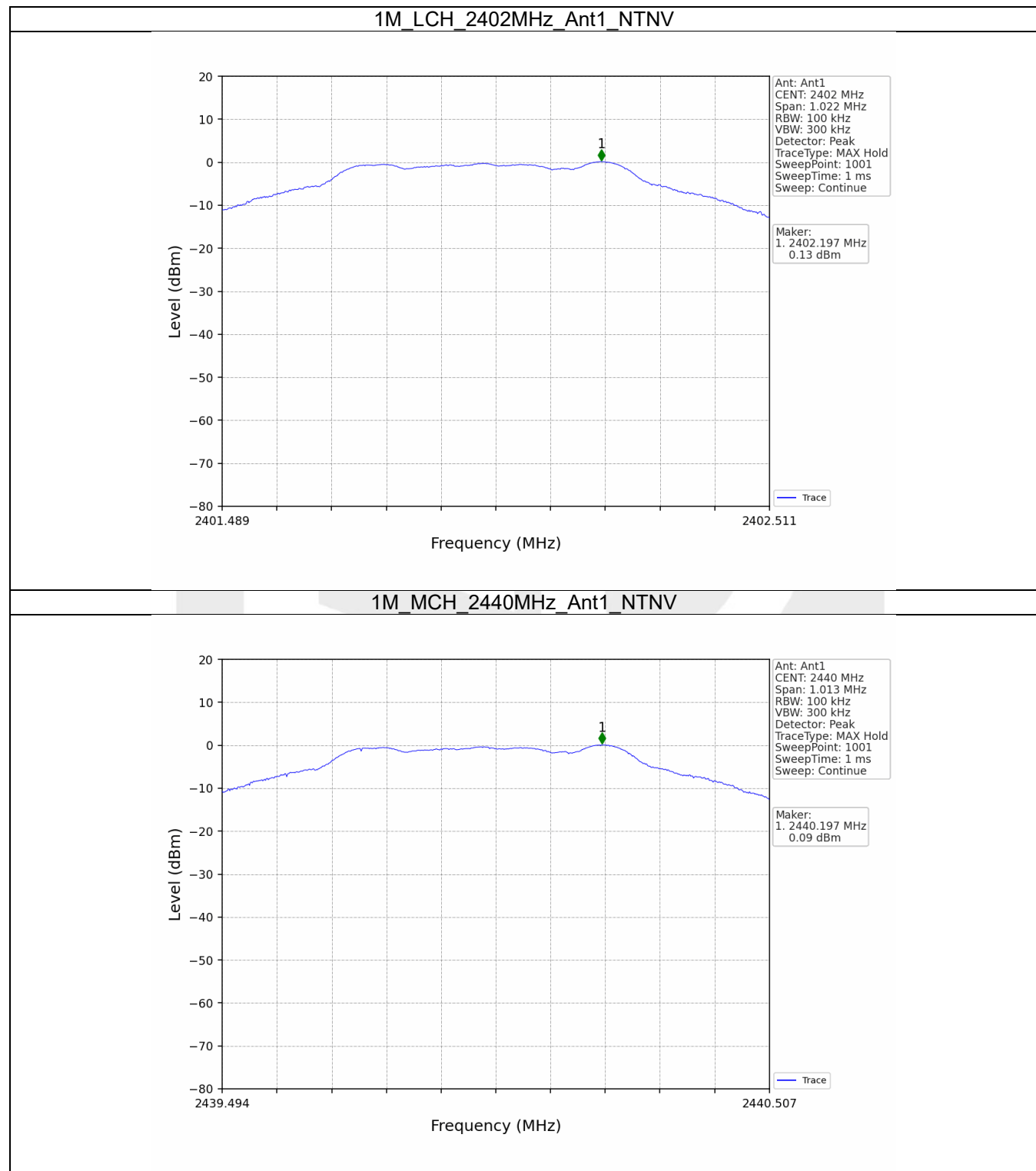
| Mode                                                                                                                                            | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|
| 1M                                                                                                                                              | SISO    | 2402            | 1   | 0.13                     |
|                                                                                                                                                 |         | 2440            | 1   | 0.09                     |
|                                                                                                                                                 |         | 2480            | 1   | -0.19                    |
| 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. |         |                 |     |                          |

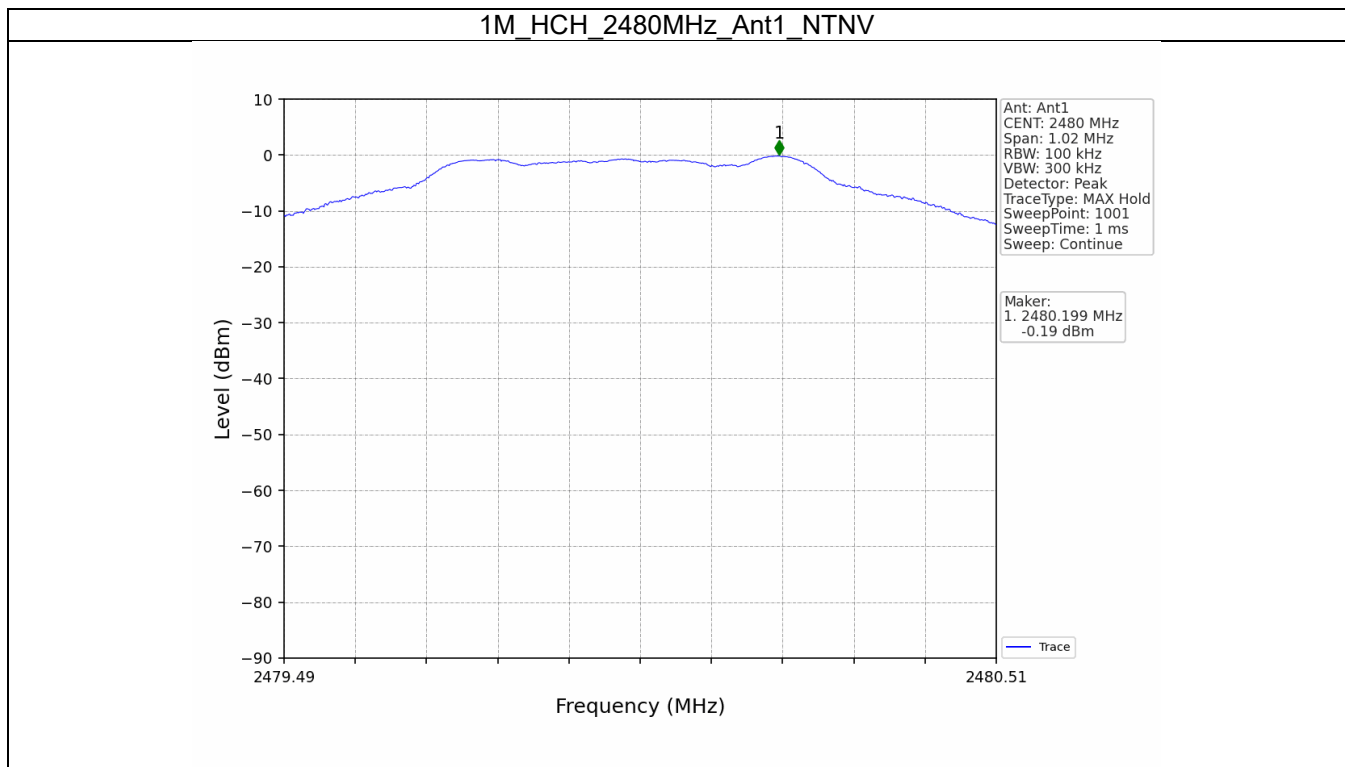
#### 5.1.2 CSE

| Mode                                                                                                                                            | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M                                                                                                                                              | SISO    | 2402            | 1   | 0.13                     | -19.87      | Pass    |
|                                                                                                                                                 |         | 2440            | 1   | 0.13                     | -19.87      | Pass    |
|                                                                                                                                                 |         | 2480            | 1   | 0.13                     | -19.87      | 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. |         |                 |     |                          |             |         |

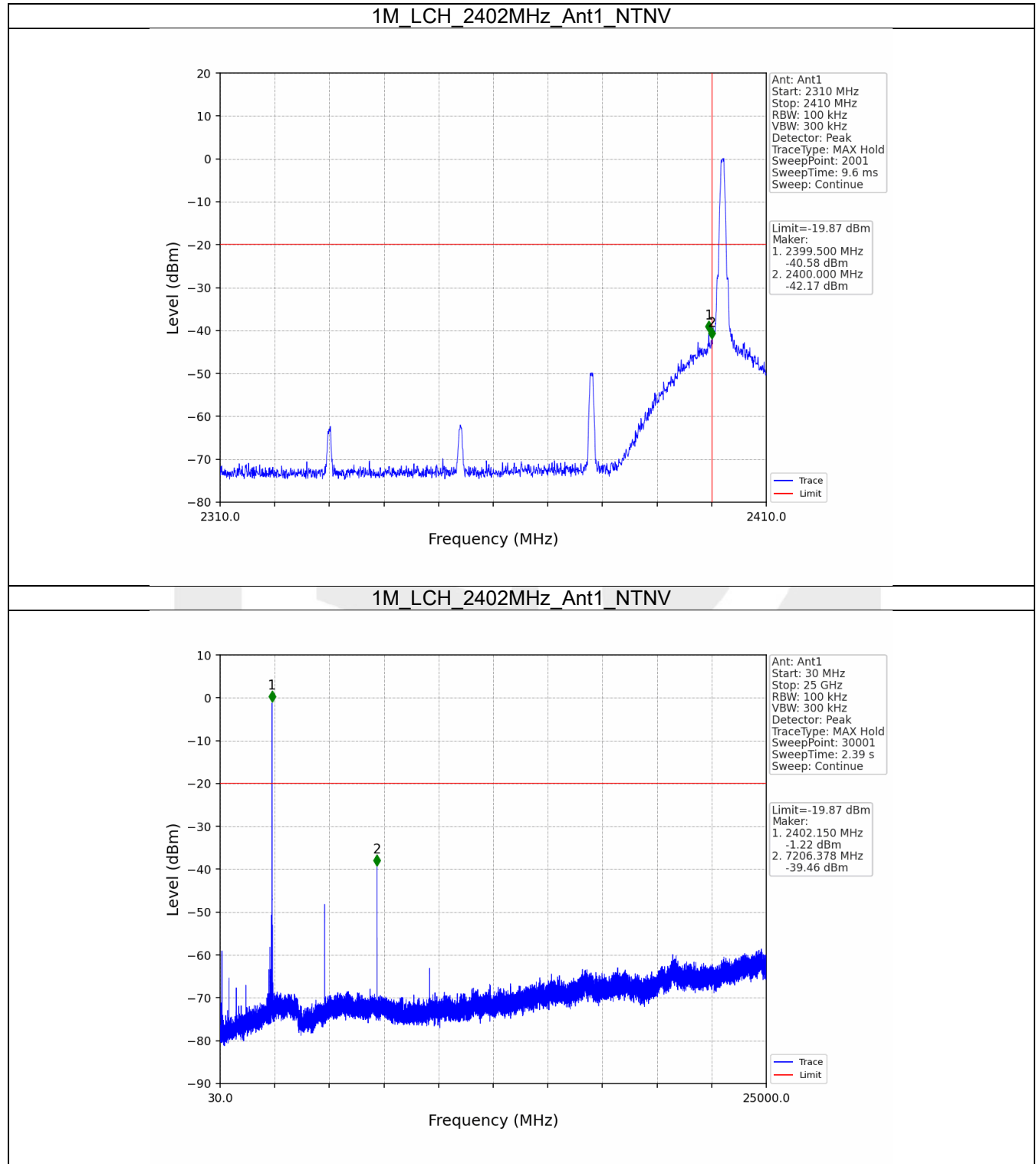
## 5.2 Test Graph

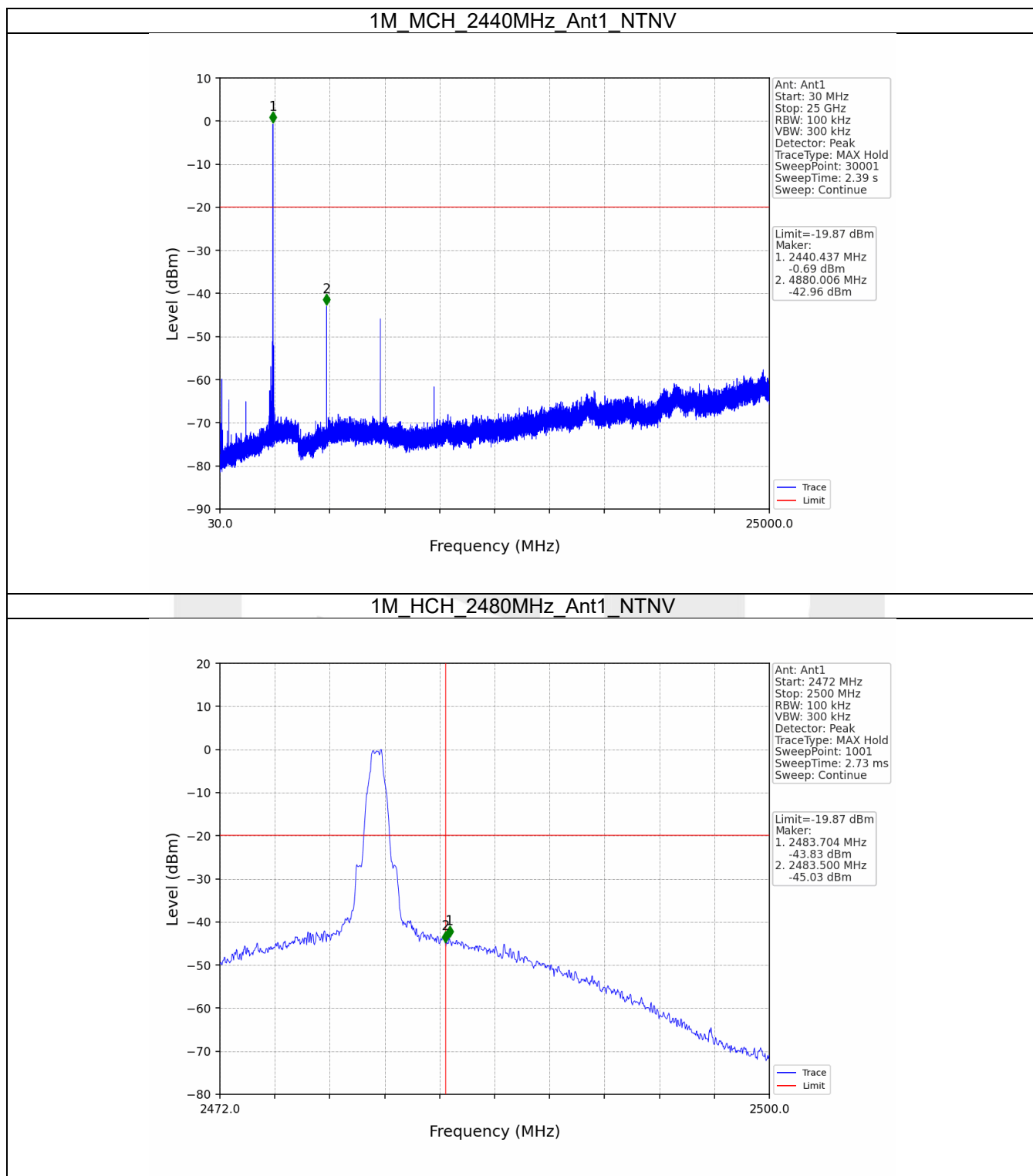
### 5.2.1 Ref

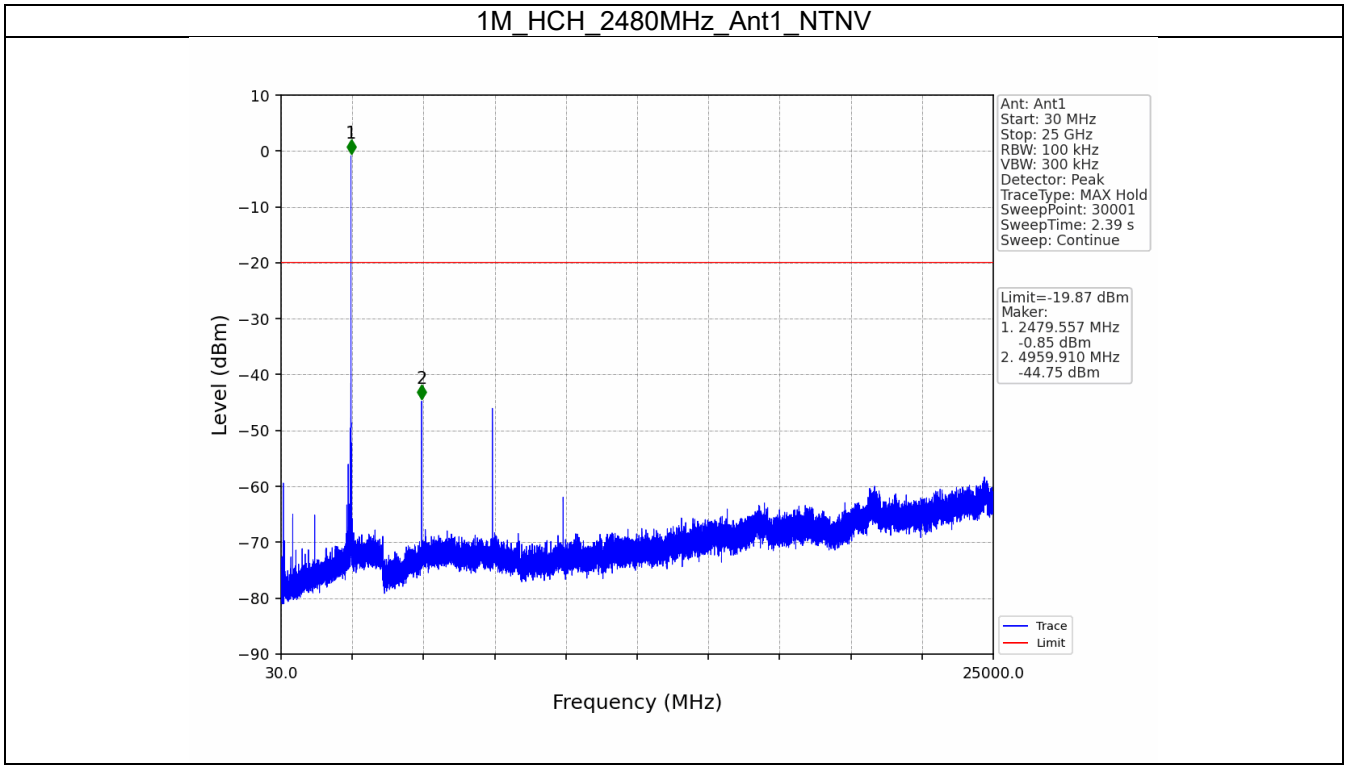




### 5.2.2 CSE







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