



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK260610008A02E0101

# RF Test Report

## For BTEK260610008A02E01

|                  |                       |
|------------------|-----------------------|
| Project No.:     | BTEK260610008A02E0101 |
| Test Conditions: | 22.4℃, 58%, 100.7kPa  |
| Test Engineer:   | Milo                  |
| Test Date:       | 2026-08-12-2026-09-03 |



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Report No.: BTEK260610008A02E0101

## Test Summary

| Item                                                 | Result |
|------------------------------------------------------|--------|
| Duty Cycle                                           | Pass   |
| Bandwidth                                            | Pass   |
| Maximum Conducted Output Power                       | Pass   |
| Carrier Frequency Separation                         | Pass   |
| Number of Hopping Frequencies                        | Pass   |
| Time of Occupancy (Dwell Time)                       | Pass   |
| Unwanted Emissions In Non-restricted Frequency Bands | Pass   |



## 1. Duty Cycle

### 1.1 Test Result

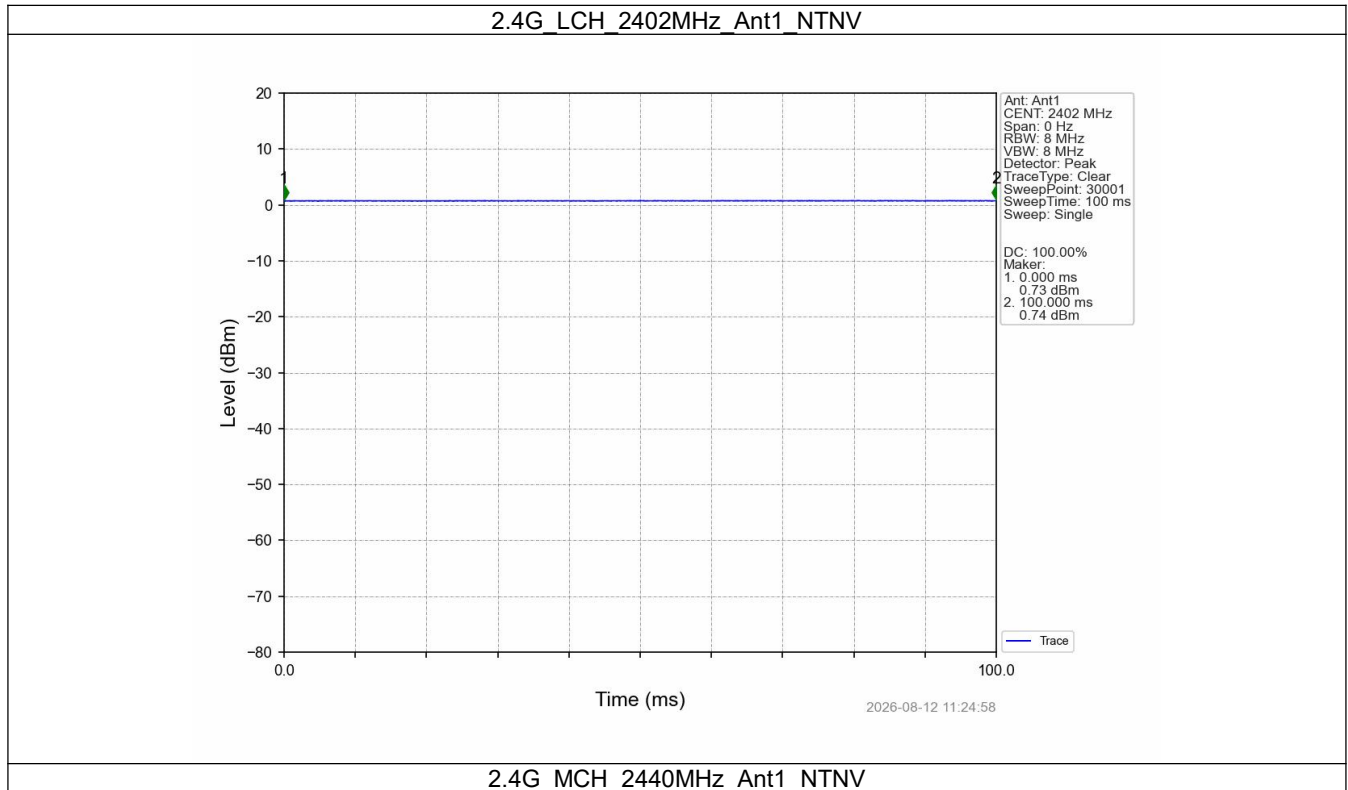
#### 1.1.1 Ant1

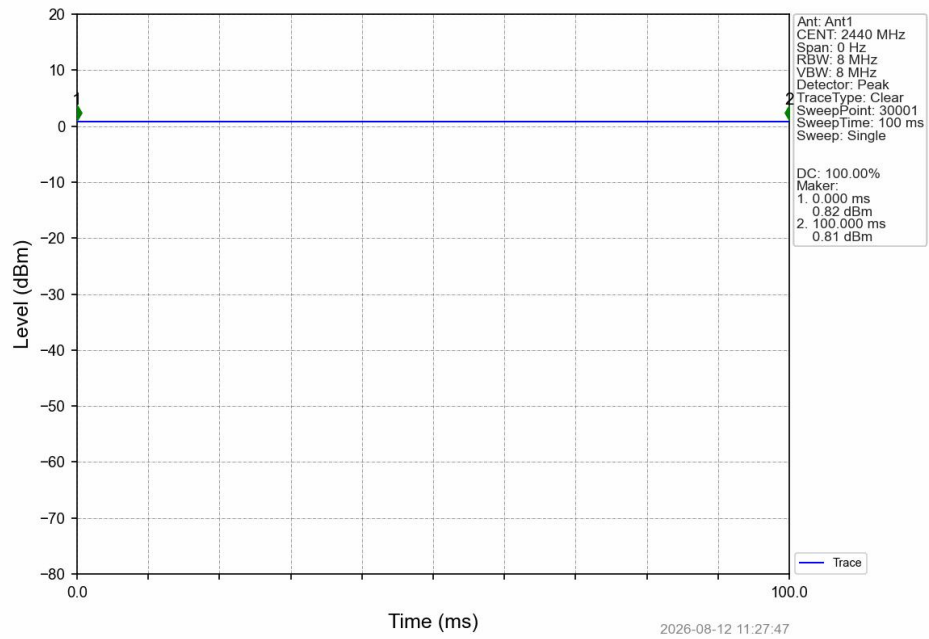
| Ant1 |         |                 |           |             |                |                                   |                       |
|------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 2.4G | 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 |         |
| 2.4G | SISO    | 2402            | 1   | 1.137                        | /     | Pass    |
|      |         | 2440            | 1   | 1.149                        | /     | Pass    |
|      |         | 2480            | 1   | 1.165                        | /     | Pass    |

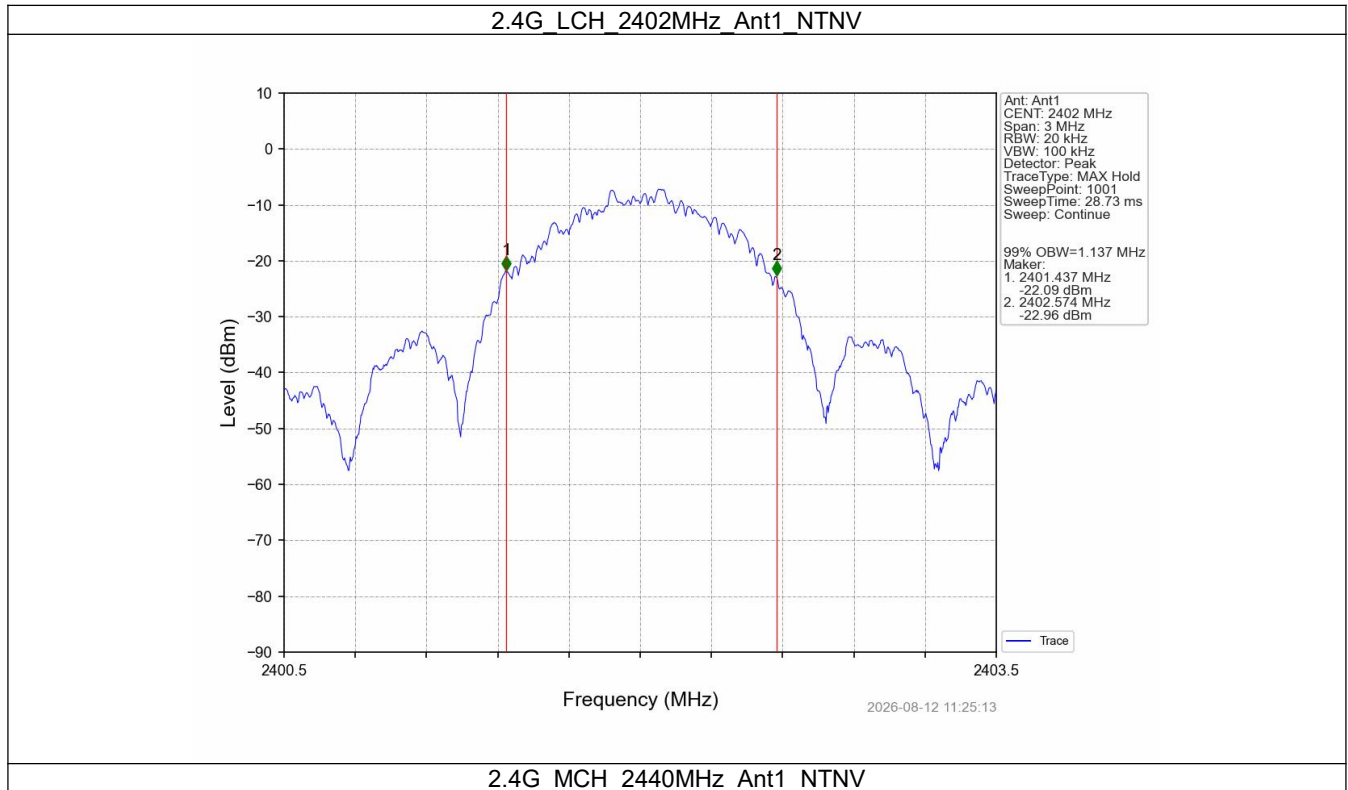
#### 2.1.2 20dB BW

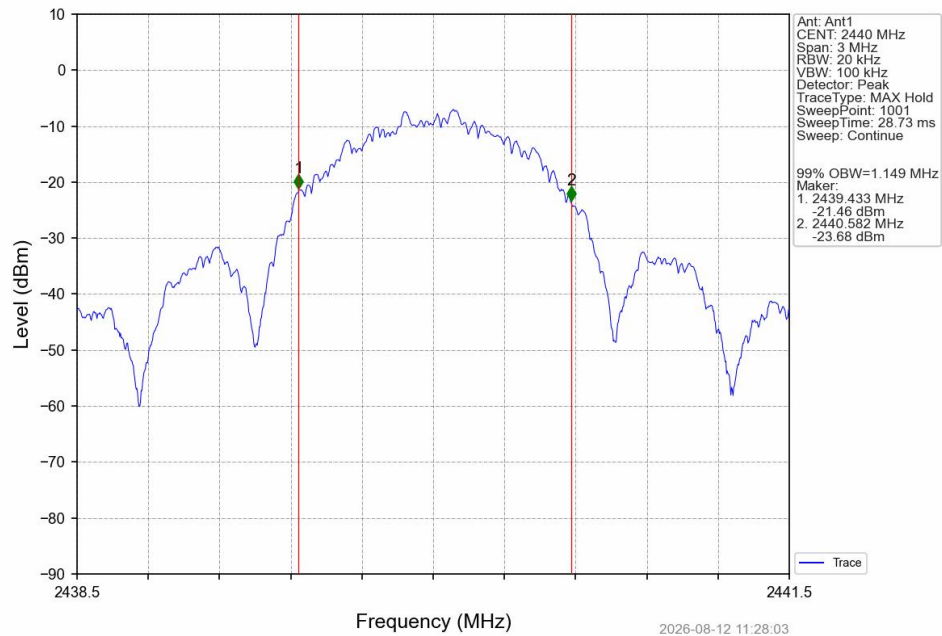
| Mode | TX Type | Frequency (MHz) | ANT | 20dB Bandwidth (MHz) |       | Verdict |
|------|---------|-----------------|-----|----------------------|-------|---------|
|      |         |                 |     | Result               | Limit |         |
| 2.4G | SISO    | 2402            | 1   | 1.248                | /     | Pass    |
|      |         | 2440            | 1   | 1.266                | /     | Pass    |
|      |         | 2480            | 1   | 1.265                | /     | Pass    |

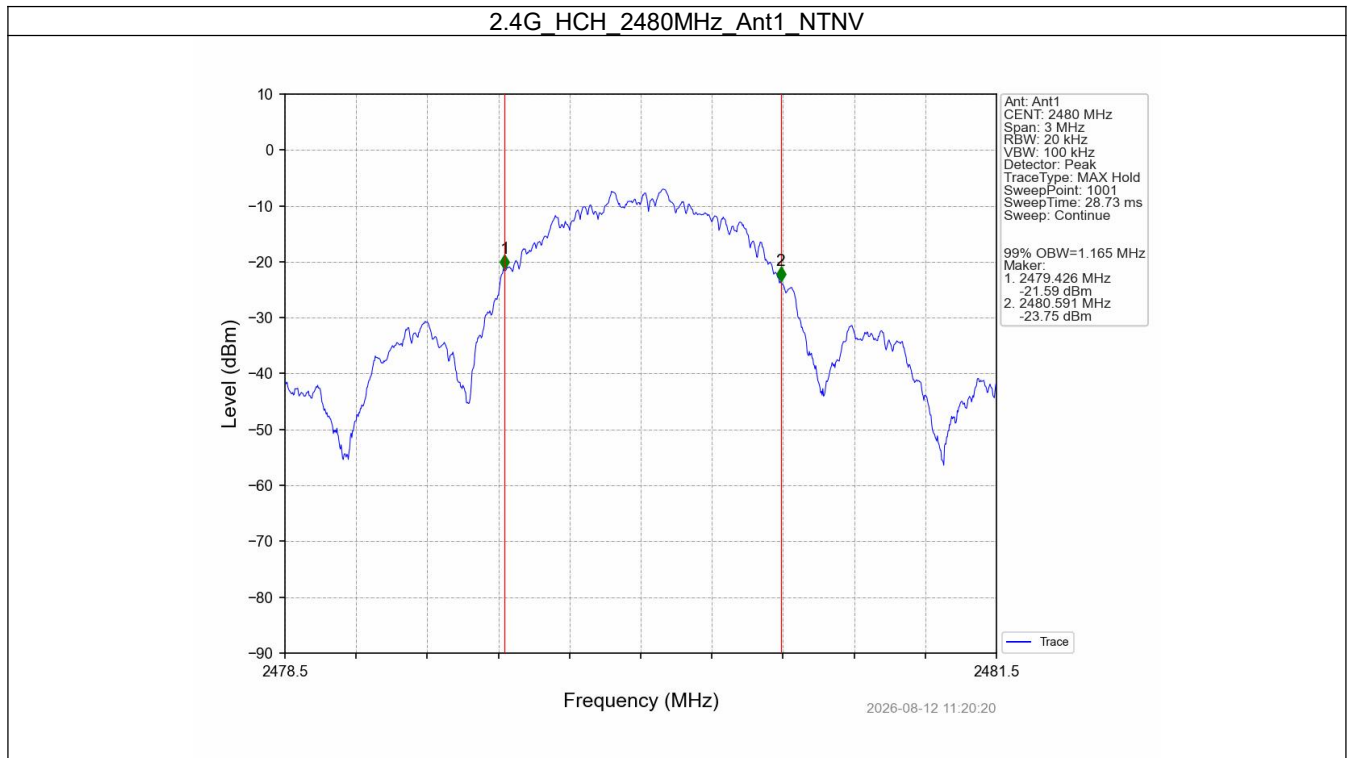


## 2.2 Test Graph

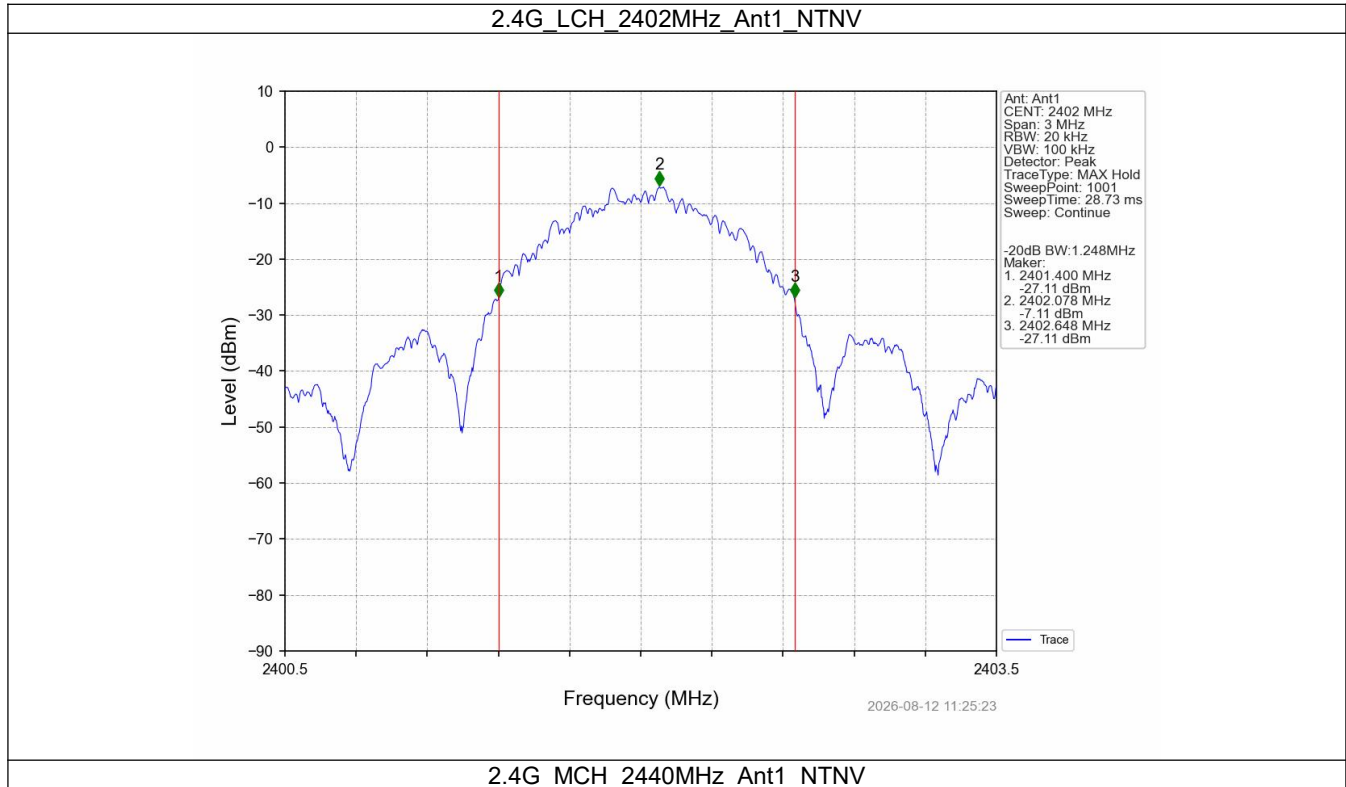
### 2.2.1 OBW

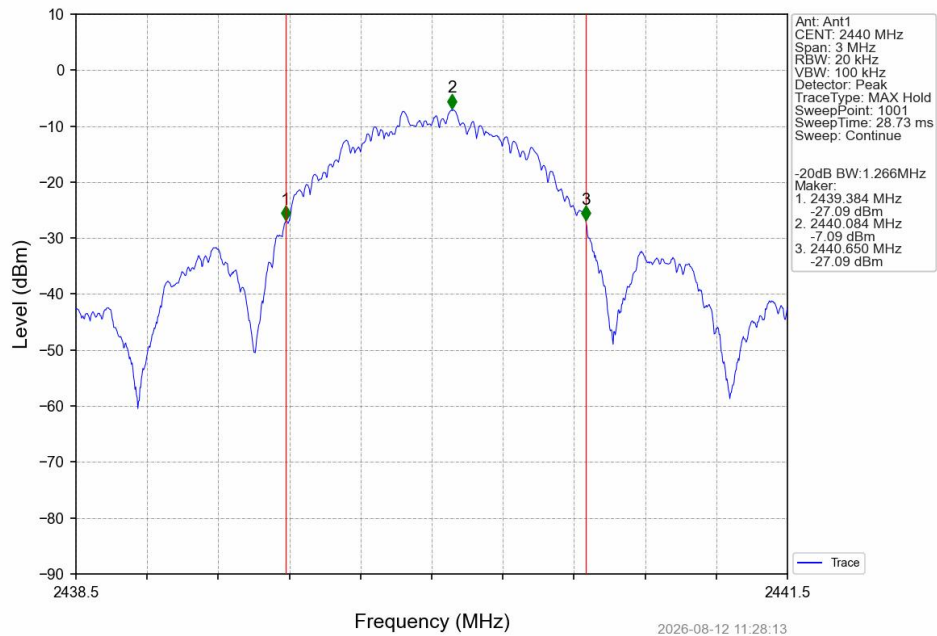


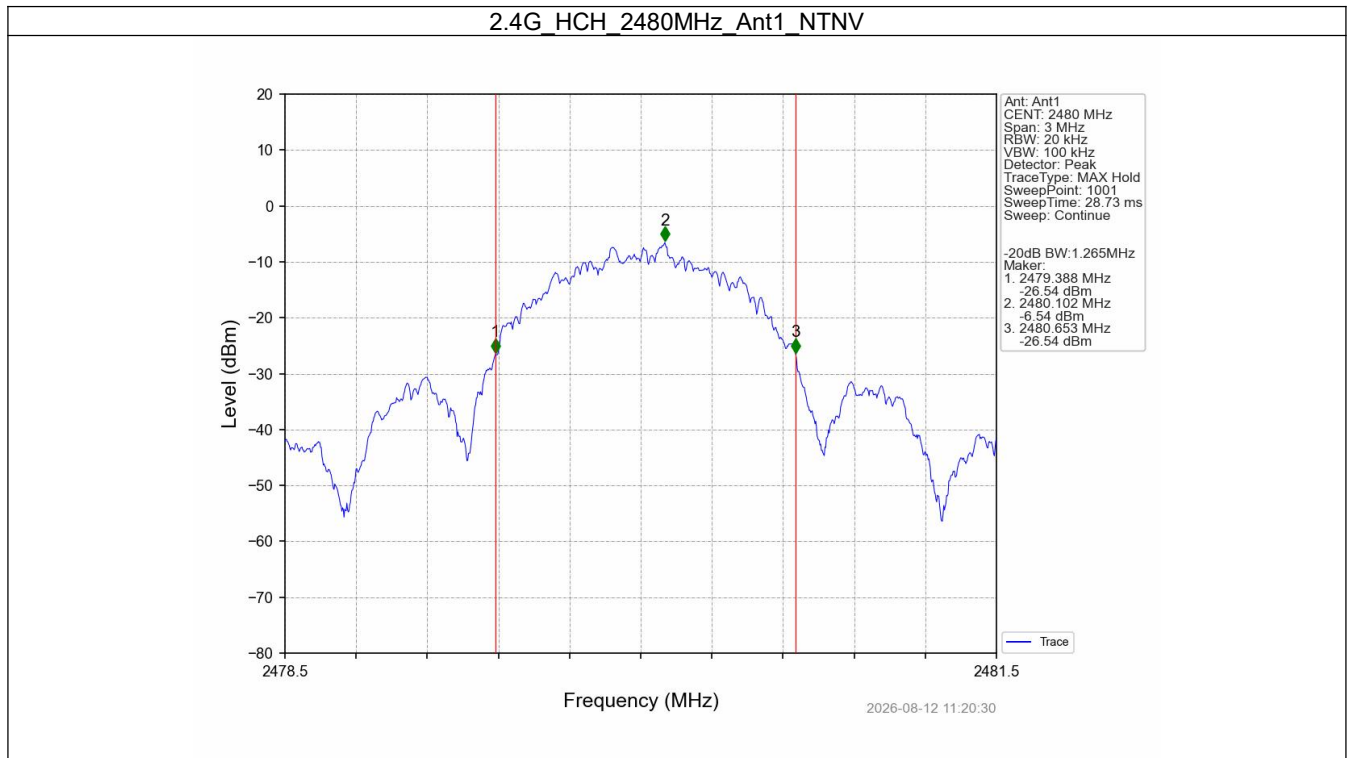




### 2.2.2 20dB BW









### 3. Maximum Conducted Output Power

#### 3.1 Test Result

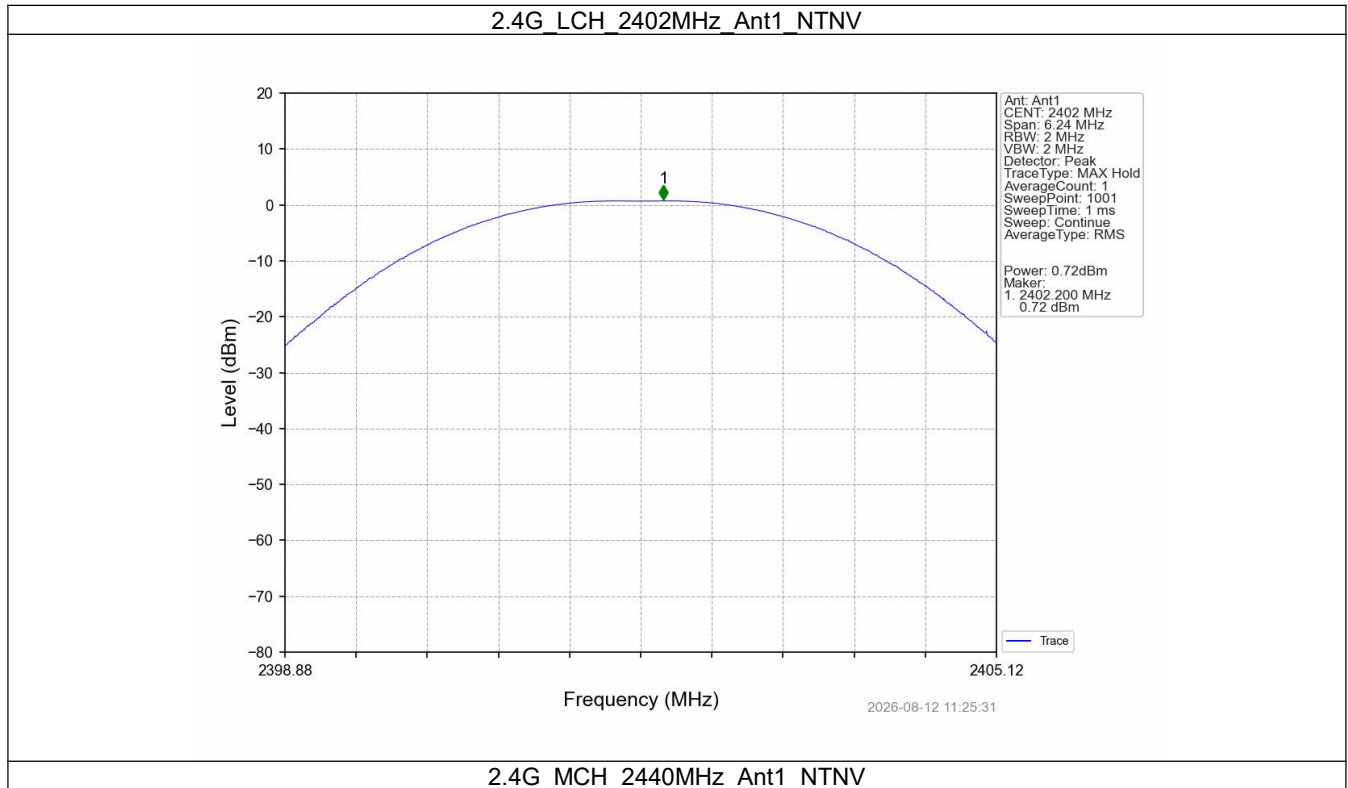
##### 3.1.1 Power

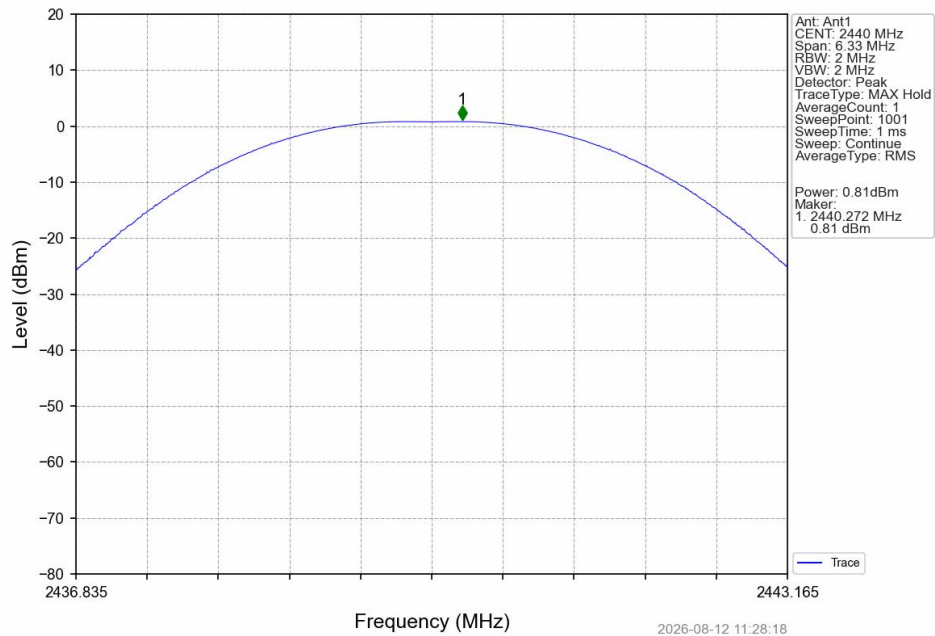
| Mode                                | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |         | Verdict |
|-------------------------------------|---------|-----------------|-------------------------------------------|---------|---------|
|                                     |         |                 | ANT1                                      | Limit   |         |
| 2.4G                                | SISO    | 2402            | 0.72                                      | <=20.97 | Pass    |
|                                     |         | 2440            | 0.81                                      | <=20.97 | Pass    |
|                                     |         | 2480            | 0.64                                      | <=20.97 | Pass    |
| Note1: Antenna Gain: Ant1: 1.71dBi: |         |                 |                                           |         |         |

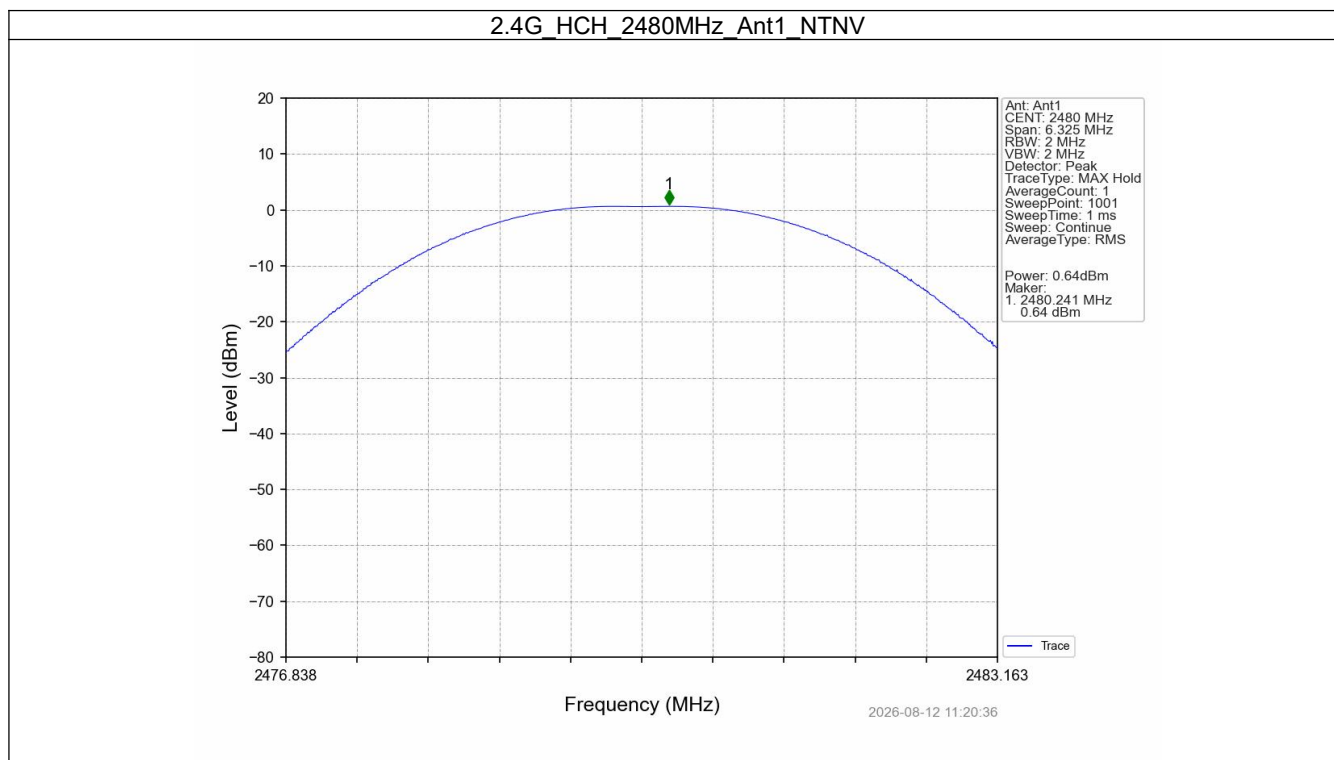


## 3.2 Test Graph

### 3.2.1 Power









## 4. Carrier Frequency Separation

### 4.1 Test Result

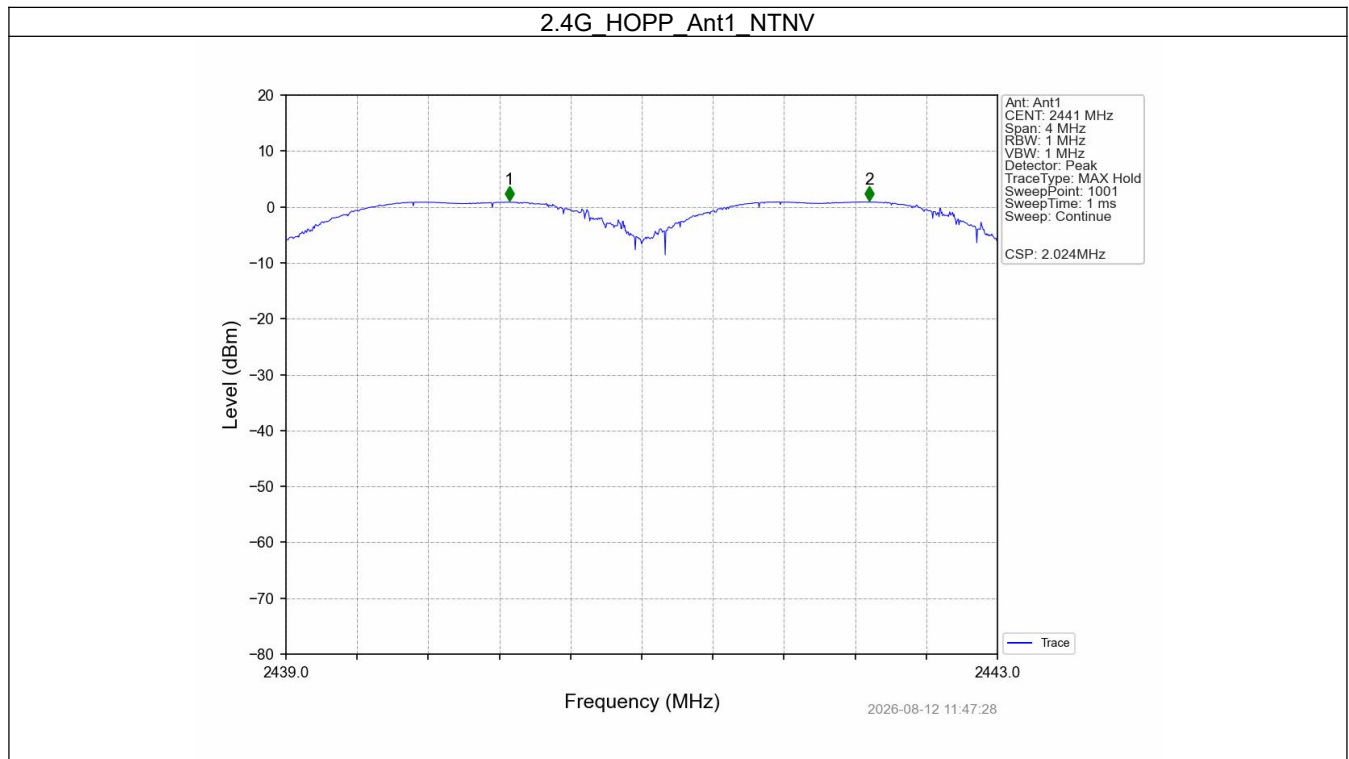
#### 4.1.1 Ant1

| Ant1 |         |                 |                          |                      |              |         |
|------|---------|-----------------|--------------------------|----------------------|--------------|---------|
| Mode | TX Type | Frequency (MHz) | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| 2.4G | SISO    | HOPP            | 2.024                    | 1.266                | $\geq 1.266$ | Pass    |



## 4.2 Test Graph

### 4.2.1 Ant1





## 5. Number of Hopping Frequencies

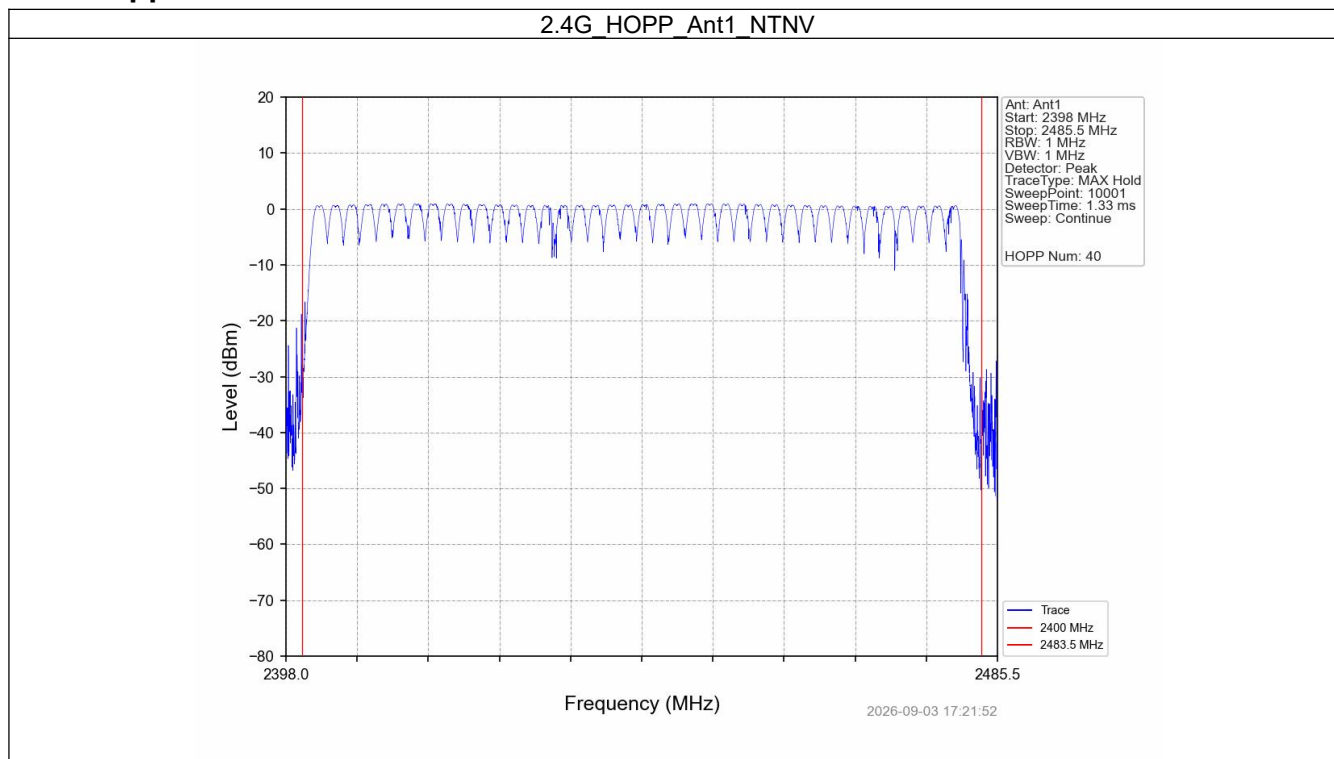
### 5.1 Test Result

#### 5.1.1 HoppNum

| Mode | TX<br>Type | Frequency<br>(MHz) | Num of Hopping Frequencies |           | Verdict |
|------|------------|--------------------|----------------------------|-----------|---------|
|      |            |                    | ANT1                       | Limit     |         |
| 2.4G | SISO       | HOPP               | 40                         | $\geq 15$ | Pass    |

## 5.2 Test Graph

### 5.2.1 HoppNum





## 6. Time of Occupancy (Dwell Time)

### 6.1 Test Result

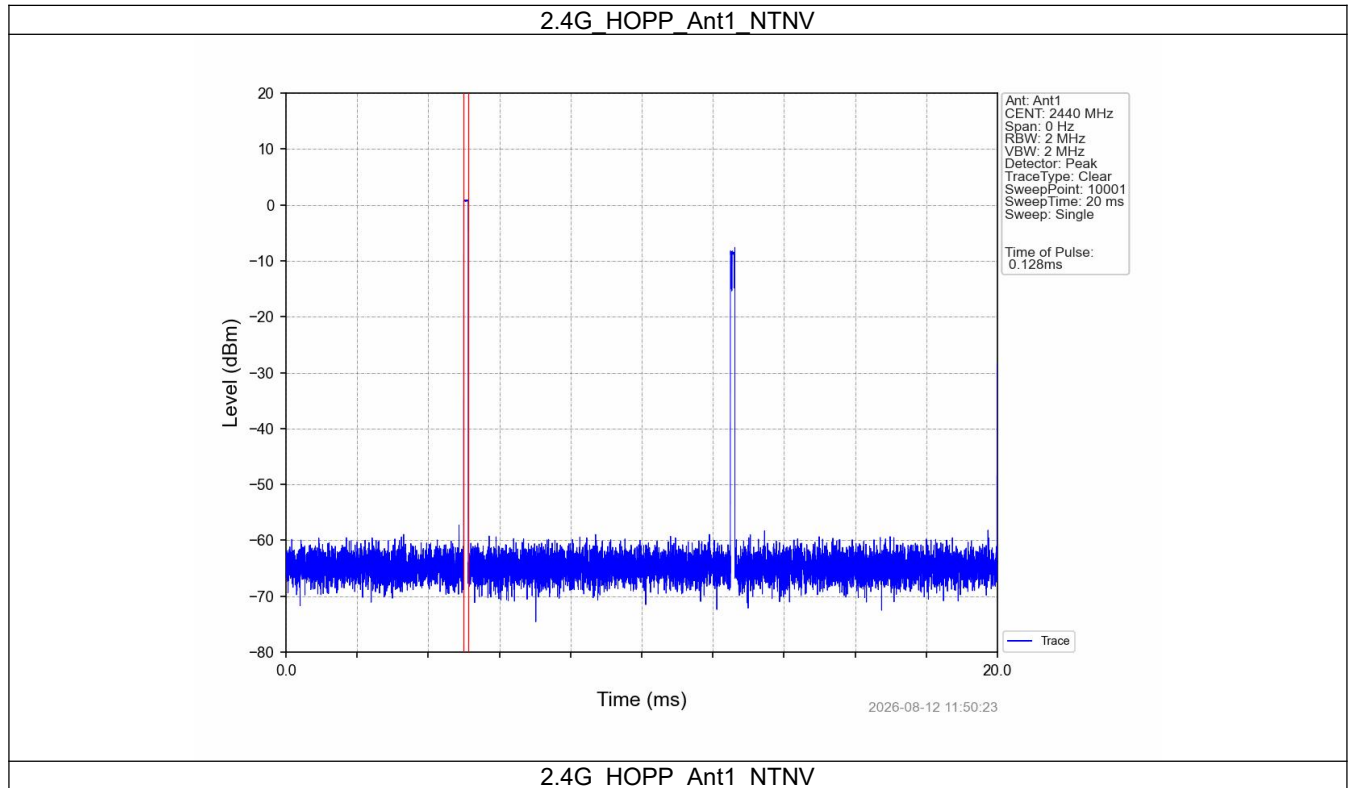
#### 6.1.1 Ant1

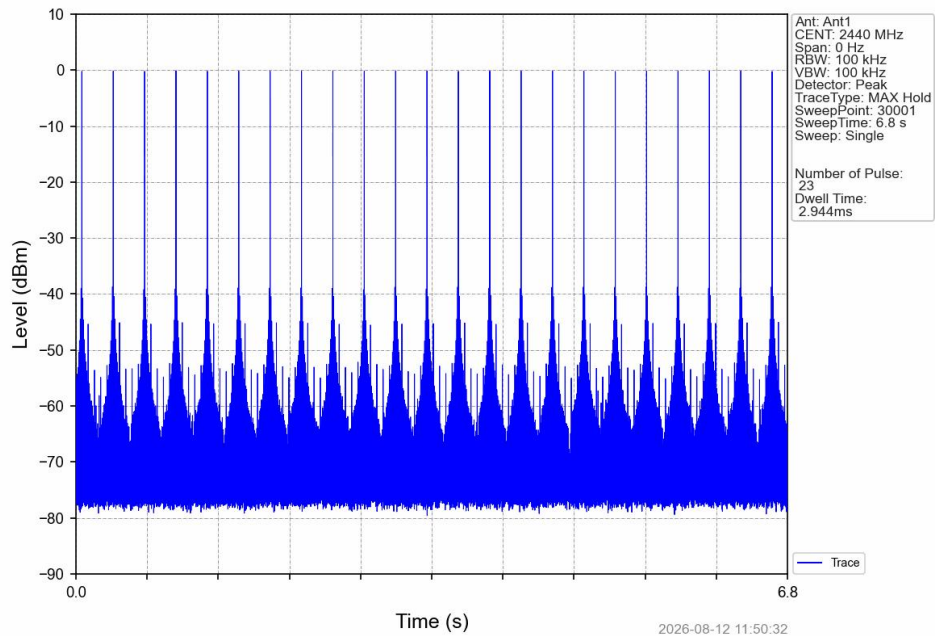
| Ant1 |         |                 |                               |                        |                                    |                 |            |         |
|------|---------|-----------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode | TX Type | Frequency (MHz) | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| 2.4G | SISO    | HOPP            | 0.128                         | 6.800                  | 23                                 | 2.944           | <=400      | Pass    |



## 6.2 Test Graph

### 6.2.1 Ant1







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

### 7.1 Test Result

#### 7.1.1 Ref

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------|---------|-----------------|-----|--------------------------|
| 2.4G | SISO    | 2402            | 1   | -0.83                    |
|      |         | 2440            | 1   | -0.89                    |
|      |         | 2480            | 1   | -1.07                    |

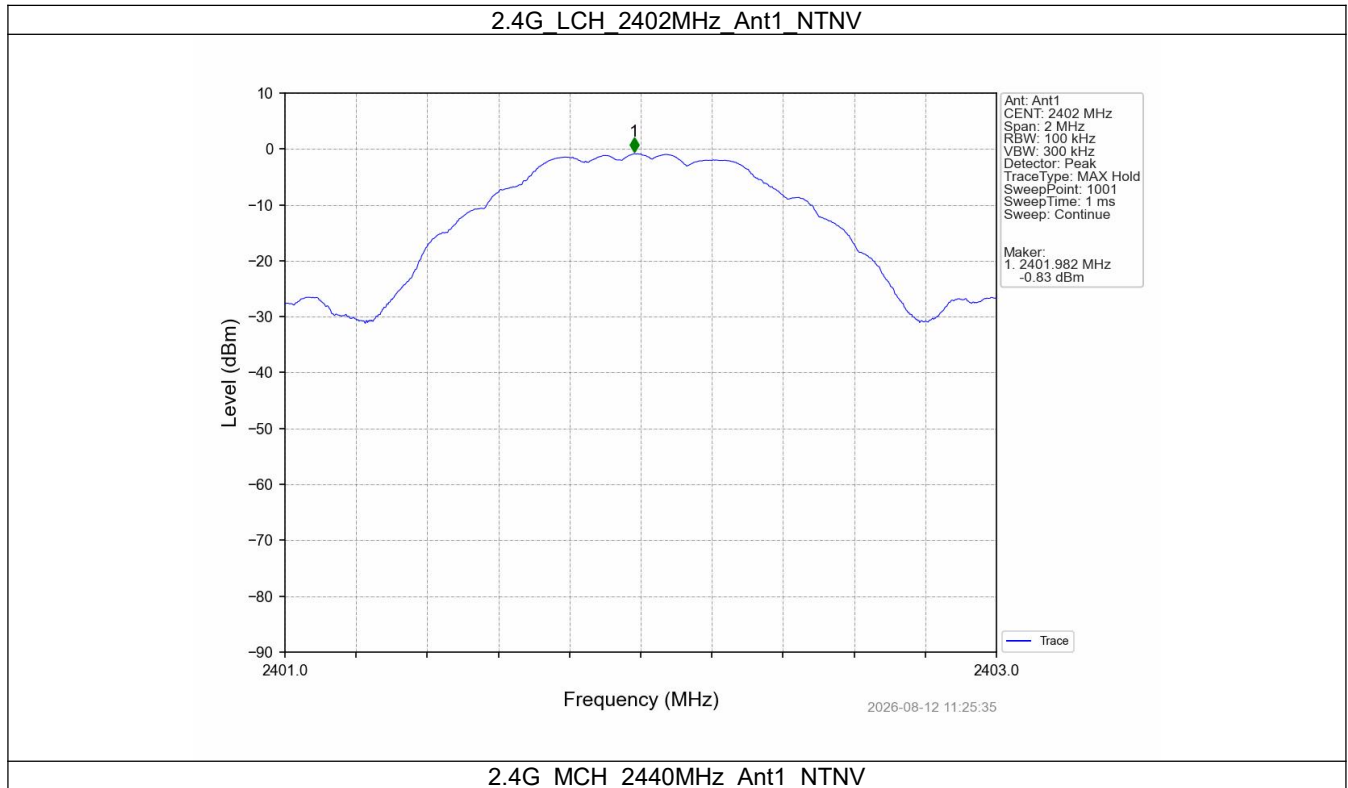
#### 7.1.2 CSE

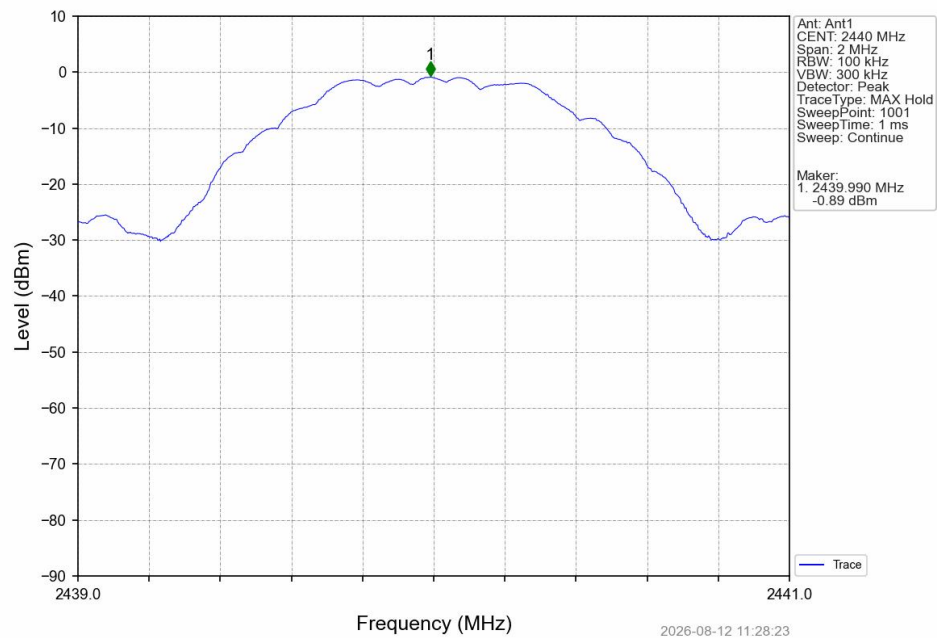
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|---------|-----------------|-----|--------------------------|-------------|---------|
| 2.4G | SISO    | 2402            | 1   | -0.83                    | -20.83      | Pass    |
|      |         | 2440            | 1   | -0.83                    | -20.83      | Pass    |
|      |         | 2480            | 1   | -0.83                    | -20.83      | Pass    |
|      |         | HOPP            | 1   | -0.83                    | -20.83      | Pass    |
|      |         |                 |     | -0.83                    | -20.83      | Pass    |



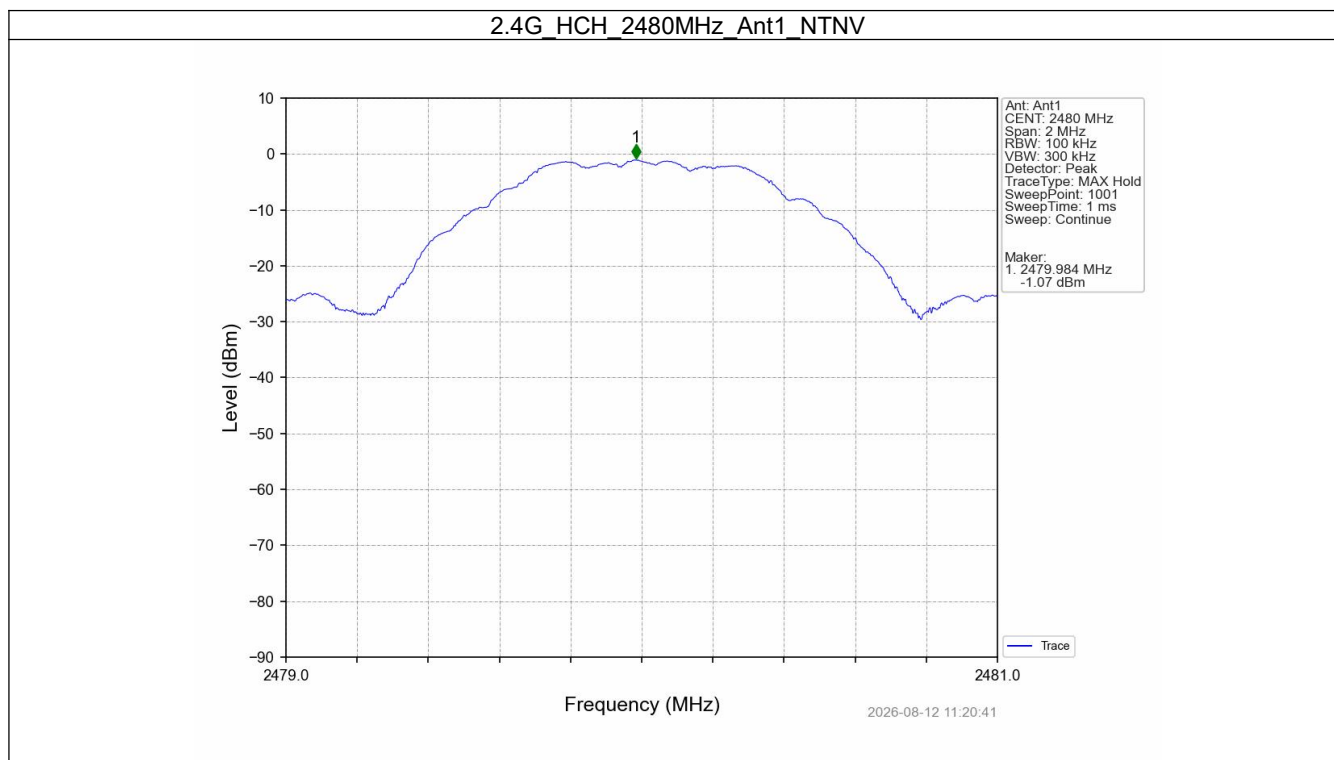
## 7.2 Test Graph

### 7.2.1 Ref

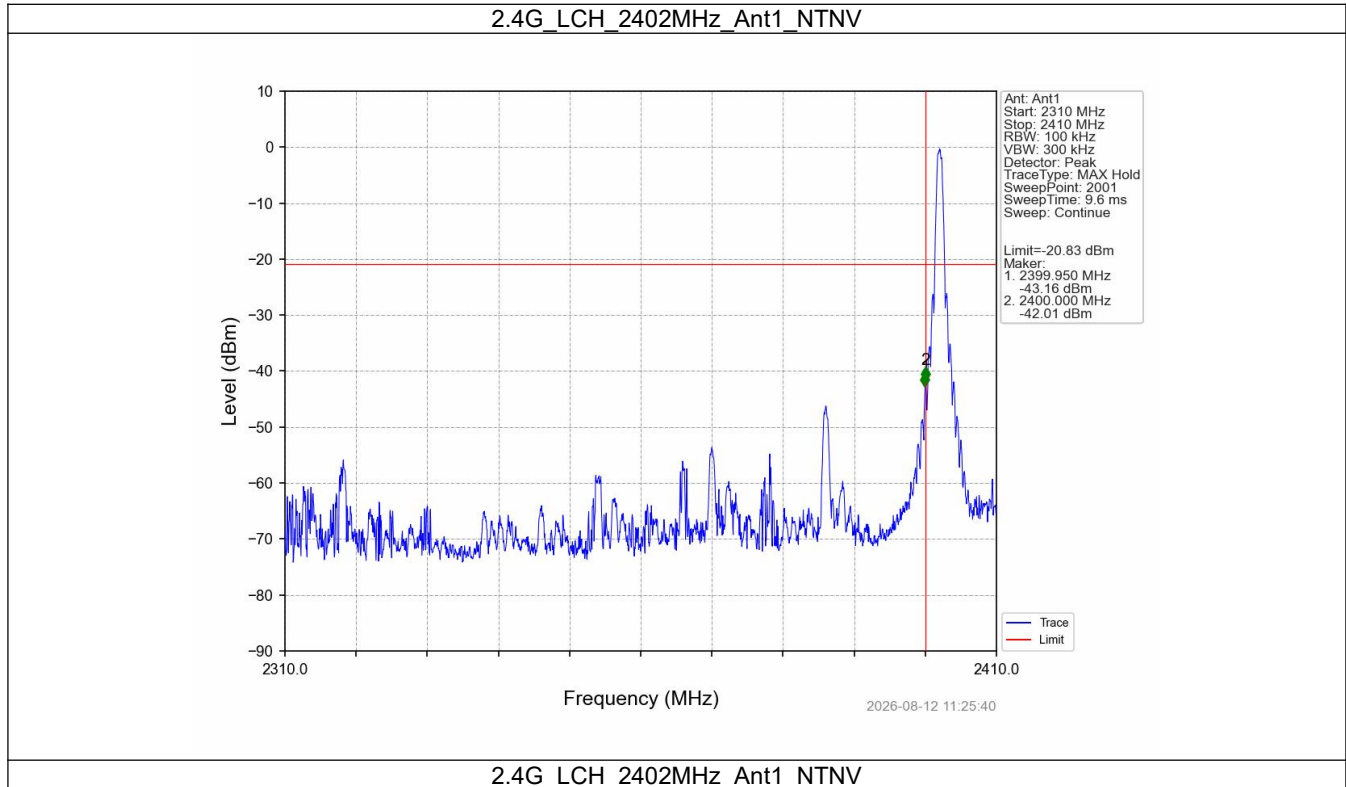


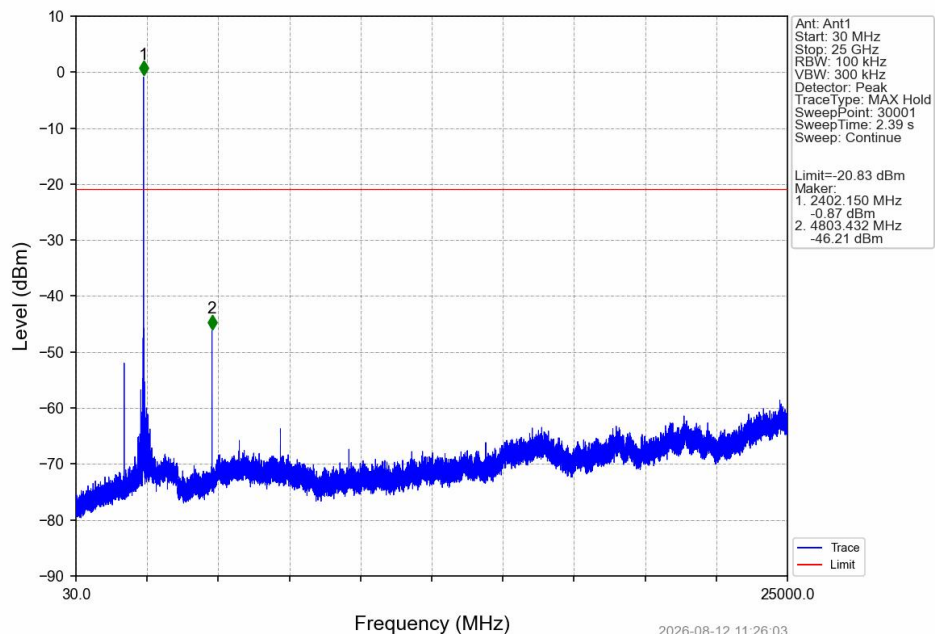


2026-08-12 11:28:23



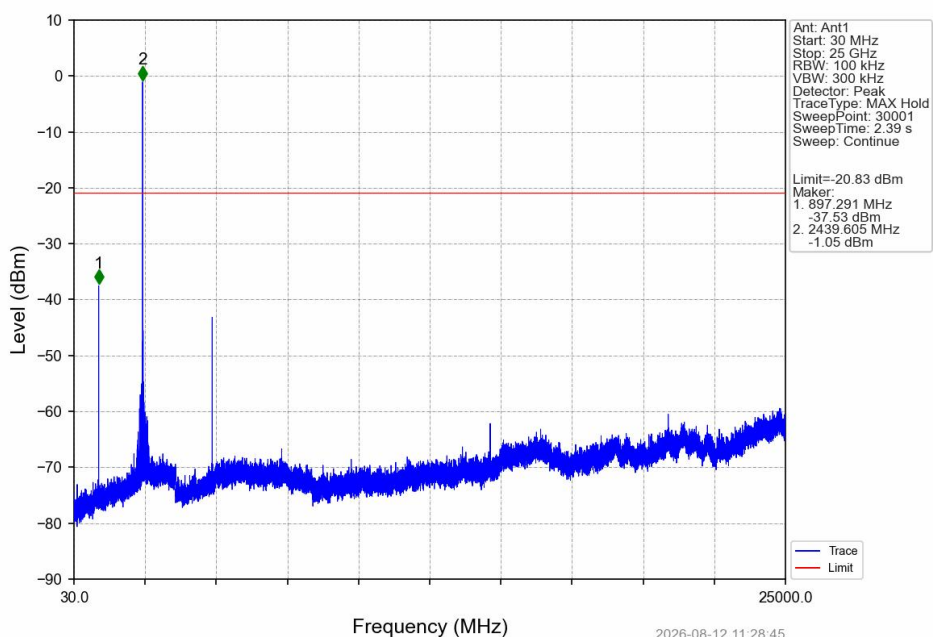
### 7.2.2 CSE



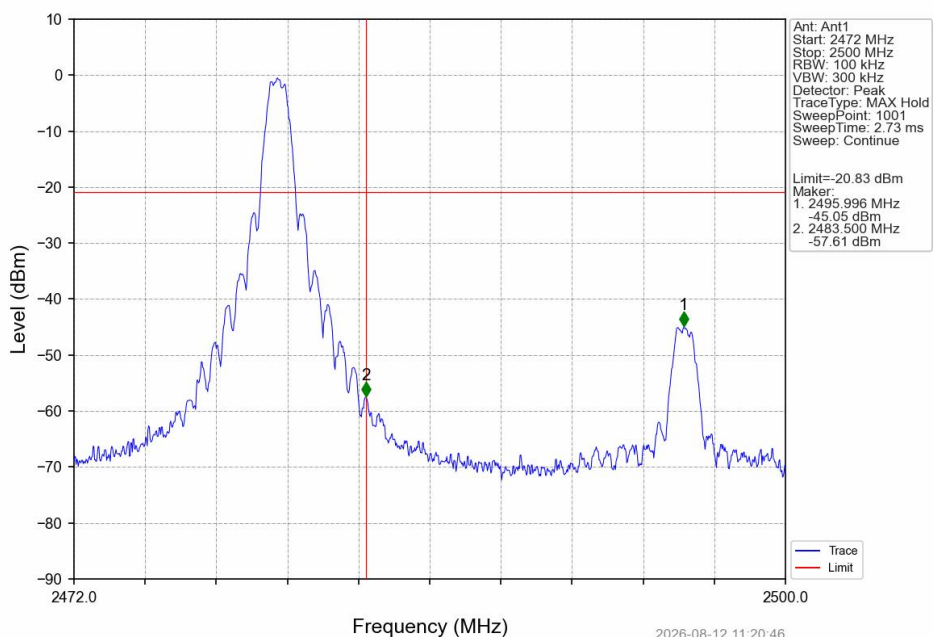


2026-08-12 11:26:03

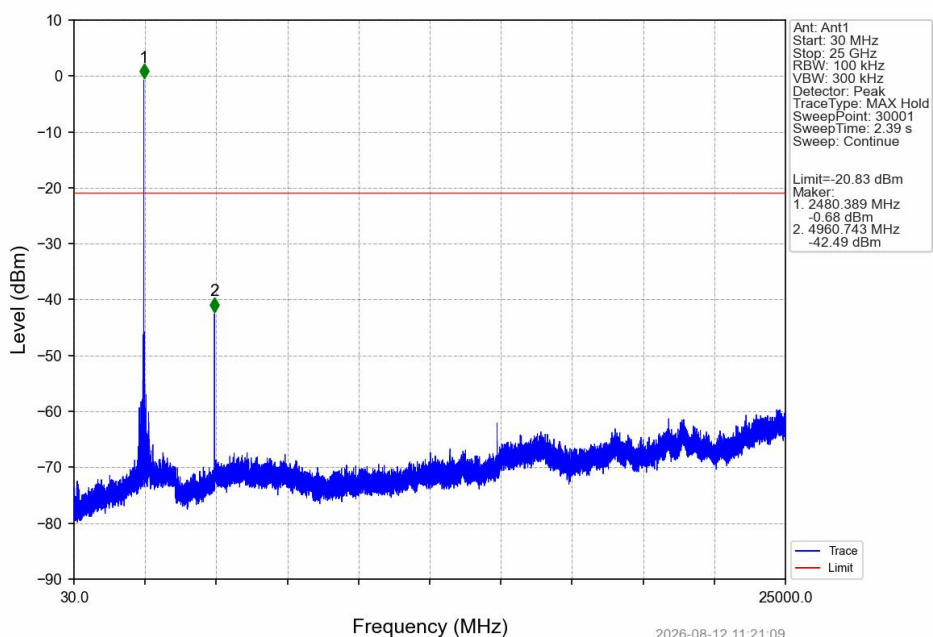
2.4G\_MCH\_2440MHz\_Ant1\_NTNV



2.4G\_HCH\_2480MHz\_Ant1\_NTNV



### 2.4G\_HCH\_2480MHz\_Ant1\_NTNV



### 2.4G\_HOPP\_Ant1\_NTNV

