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## Annex for Bluetooth Low Energy

Test Report No.: CTL2606052112-WF

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FCC ID: 2BFCV-BIKE3

## 1. Duty Cycle

### 1.1 Test Result

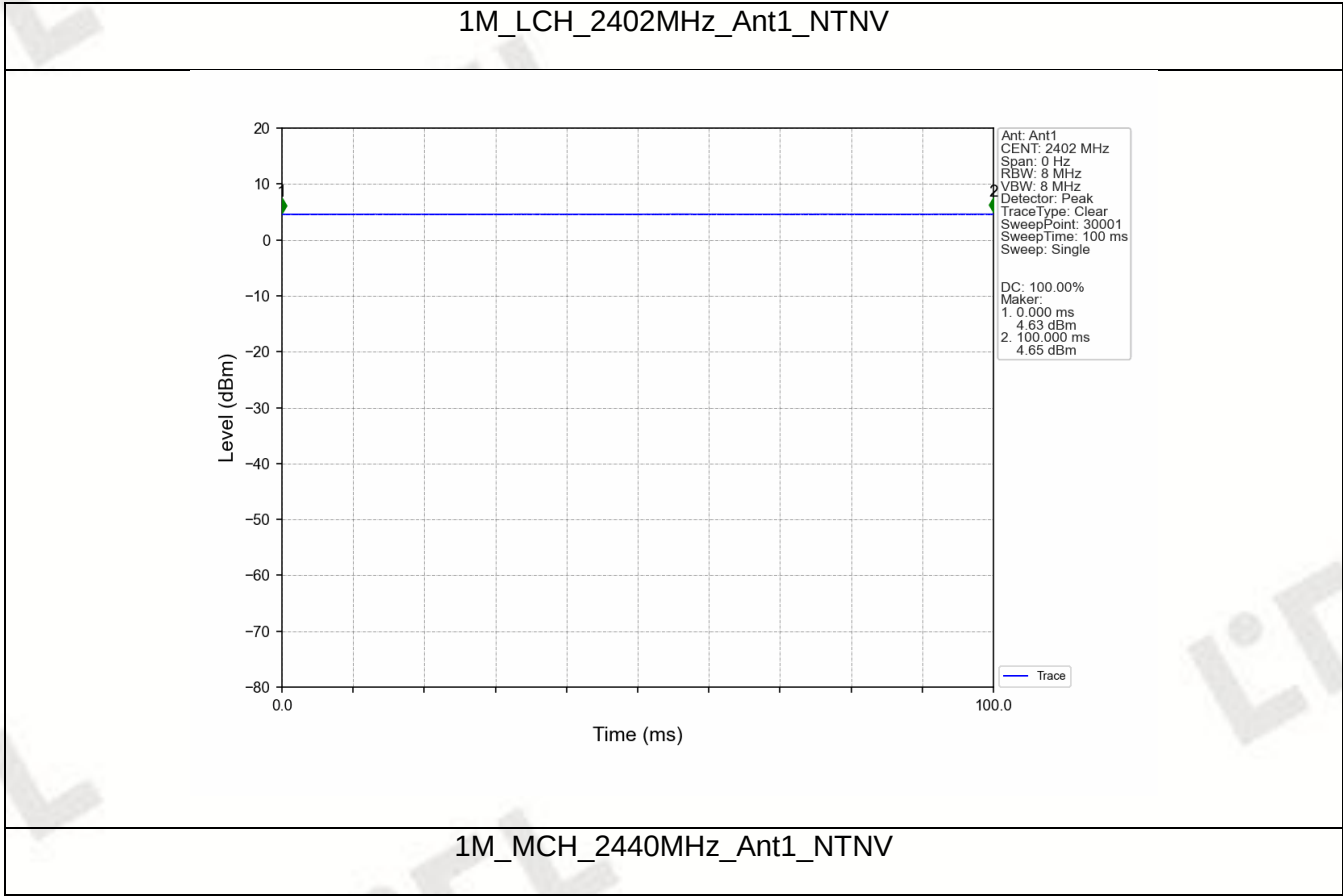
#### 1.1.1 Ant1

| 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                  |

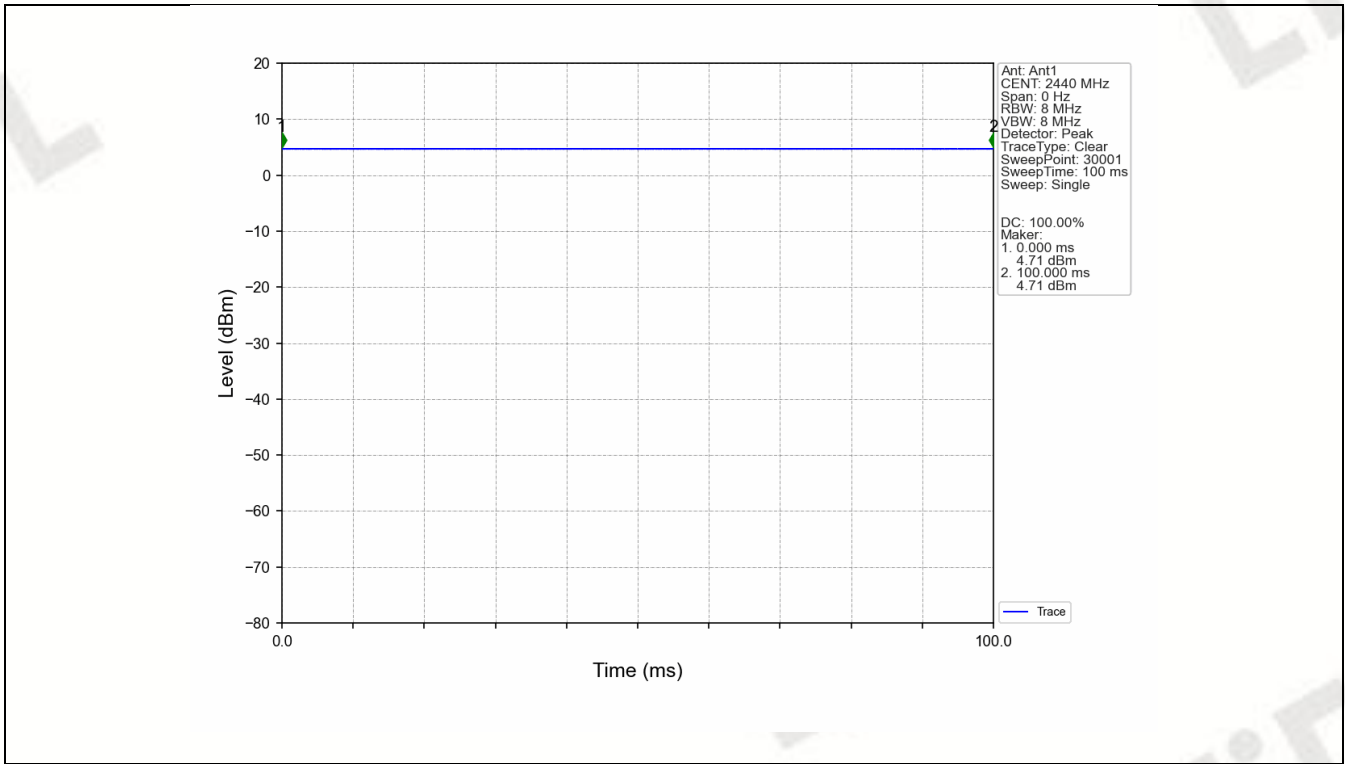
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1.2 Test Graph

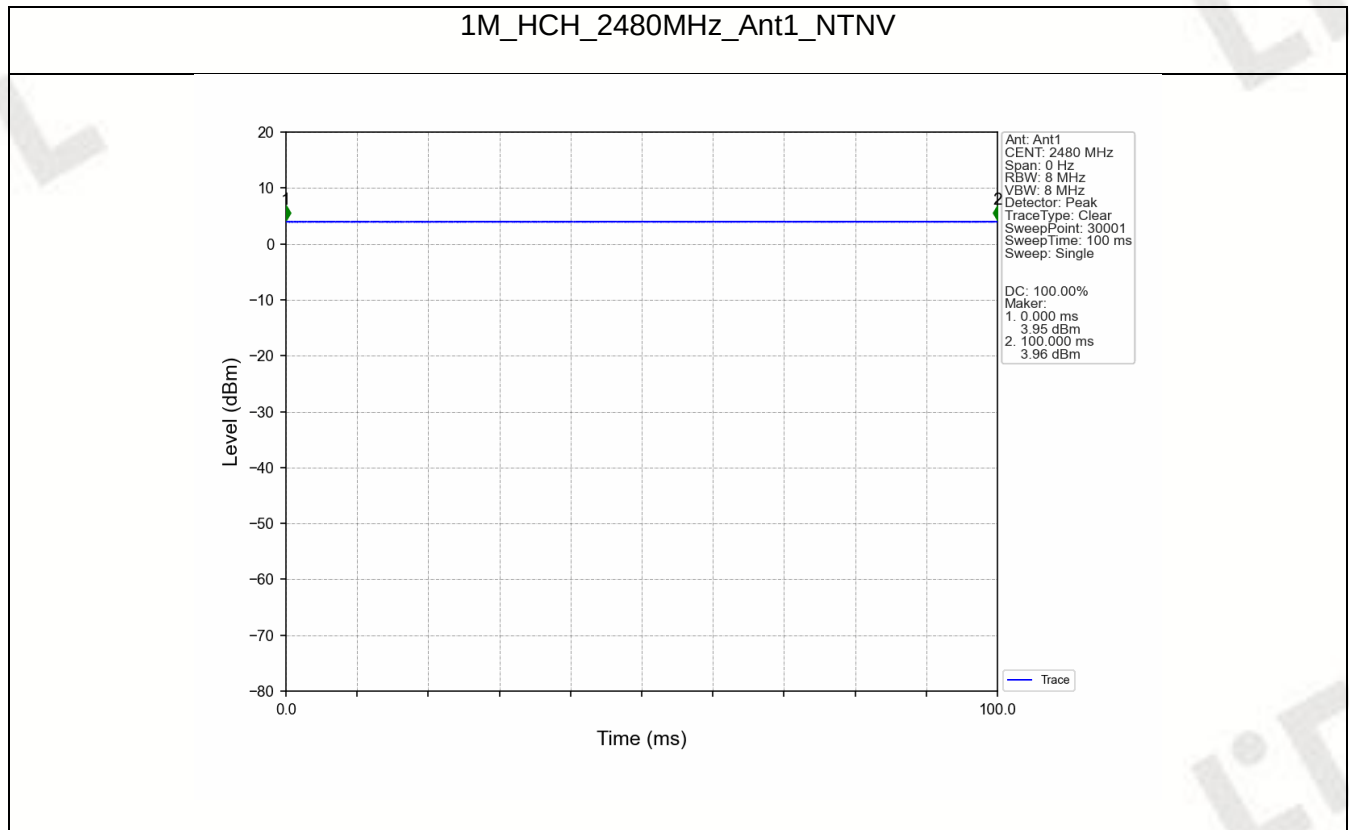
1.2.1 Ant1



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## 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   | 1.015                        | /     | Pass    |
|      |         | 2440            | 1   | 1.027                        | /     | Pass    |
|      |         | 2480            | 1   | 1.049                        | /     | Pass    |

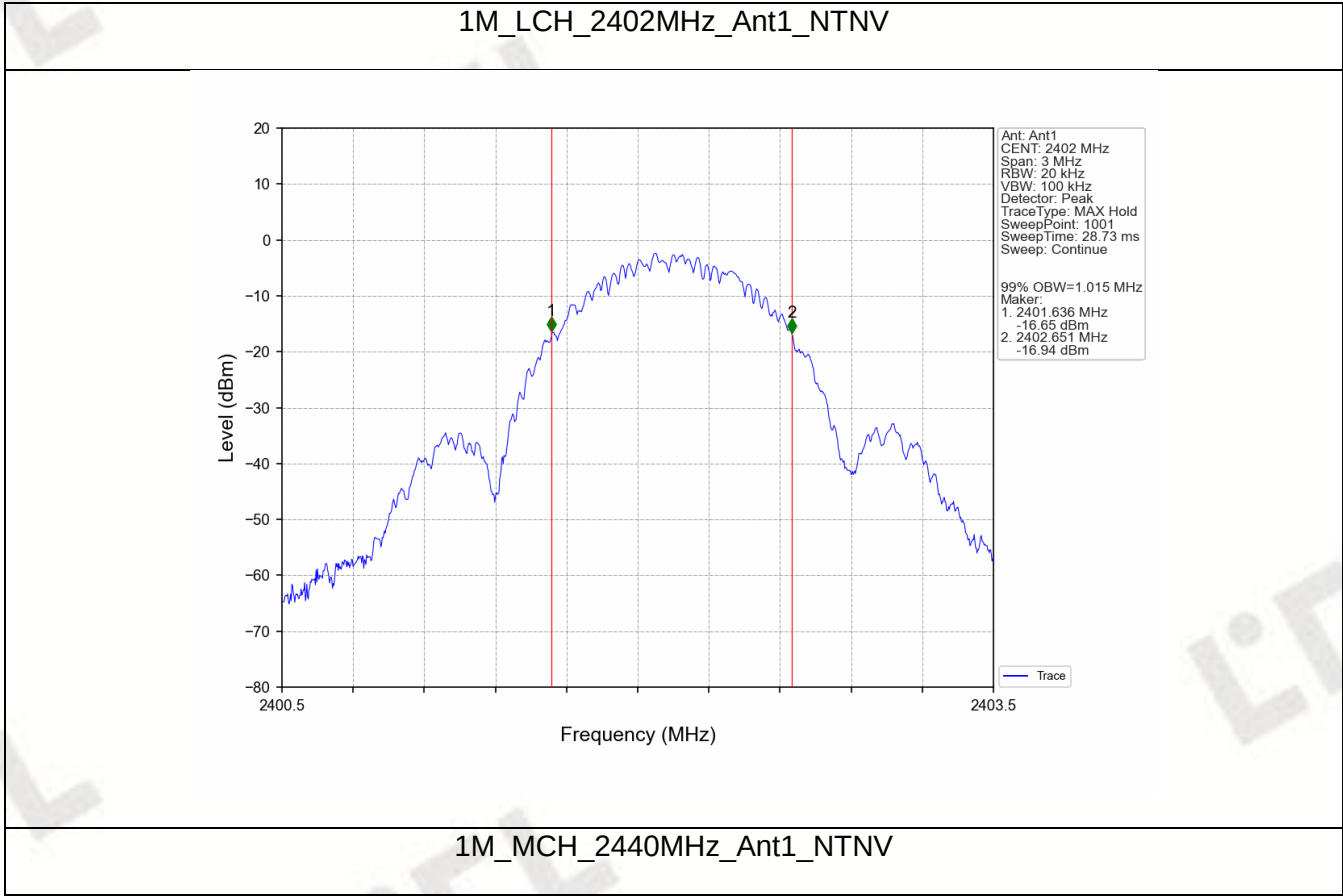
#### 2.1.2 6dB BW

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| 1M   | SISO    | 2402            | 1   | 0.691               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 0.698               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 0.745               | $\geq 0.5$ | Pass    |

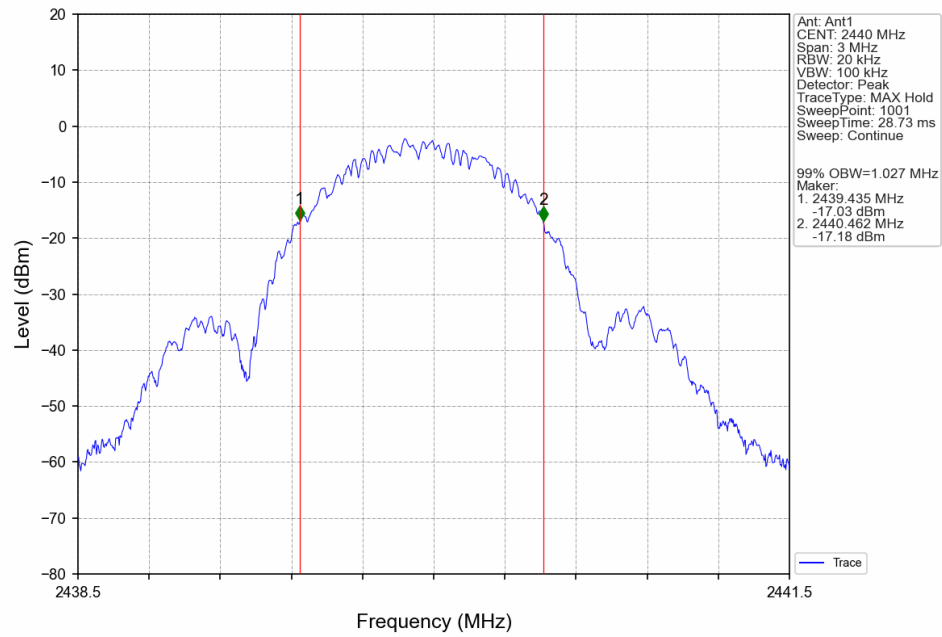
FCC ID: 2BFCV-BIKE3

2.2 Test Graph

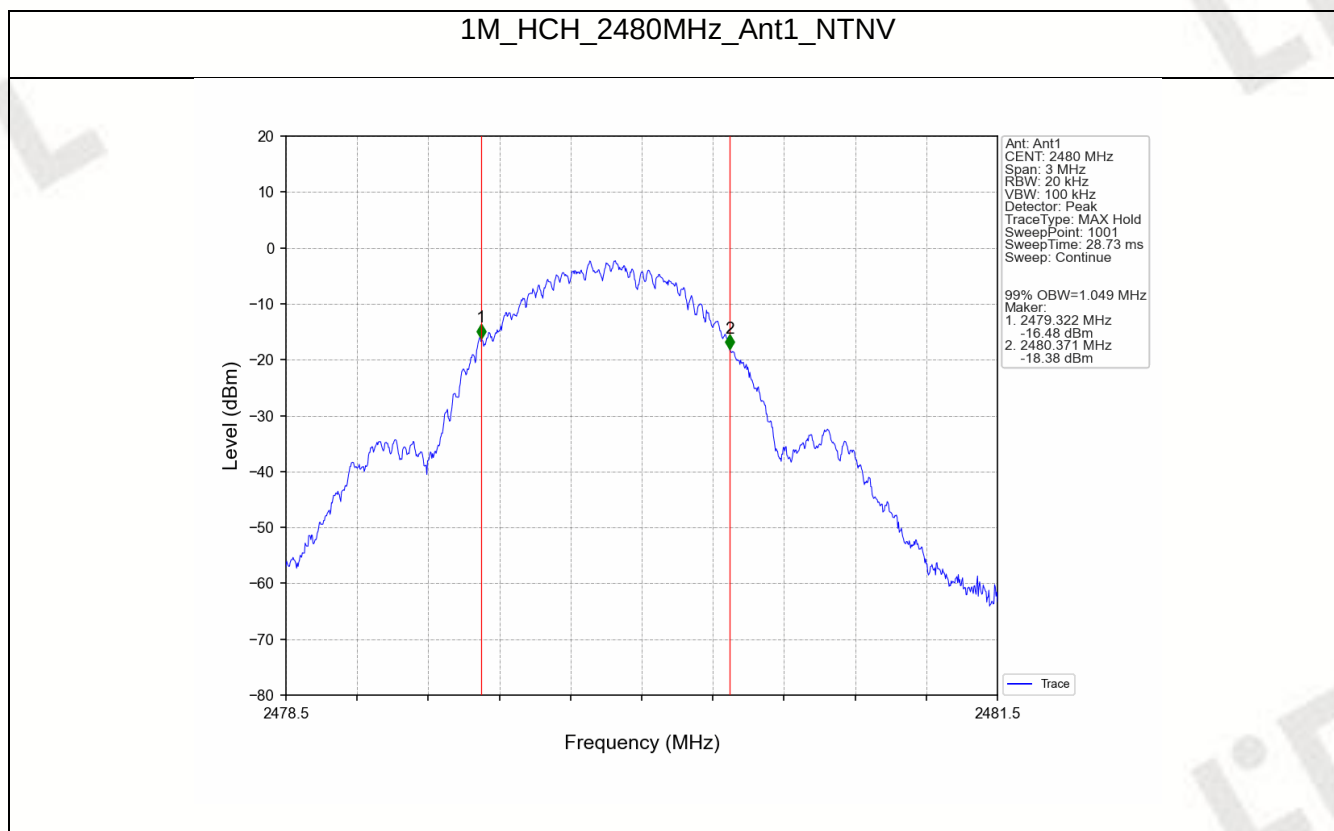
2.2.1 OBW



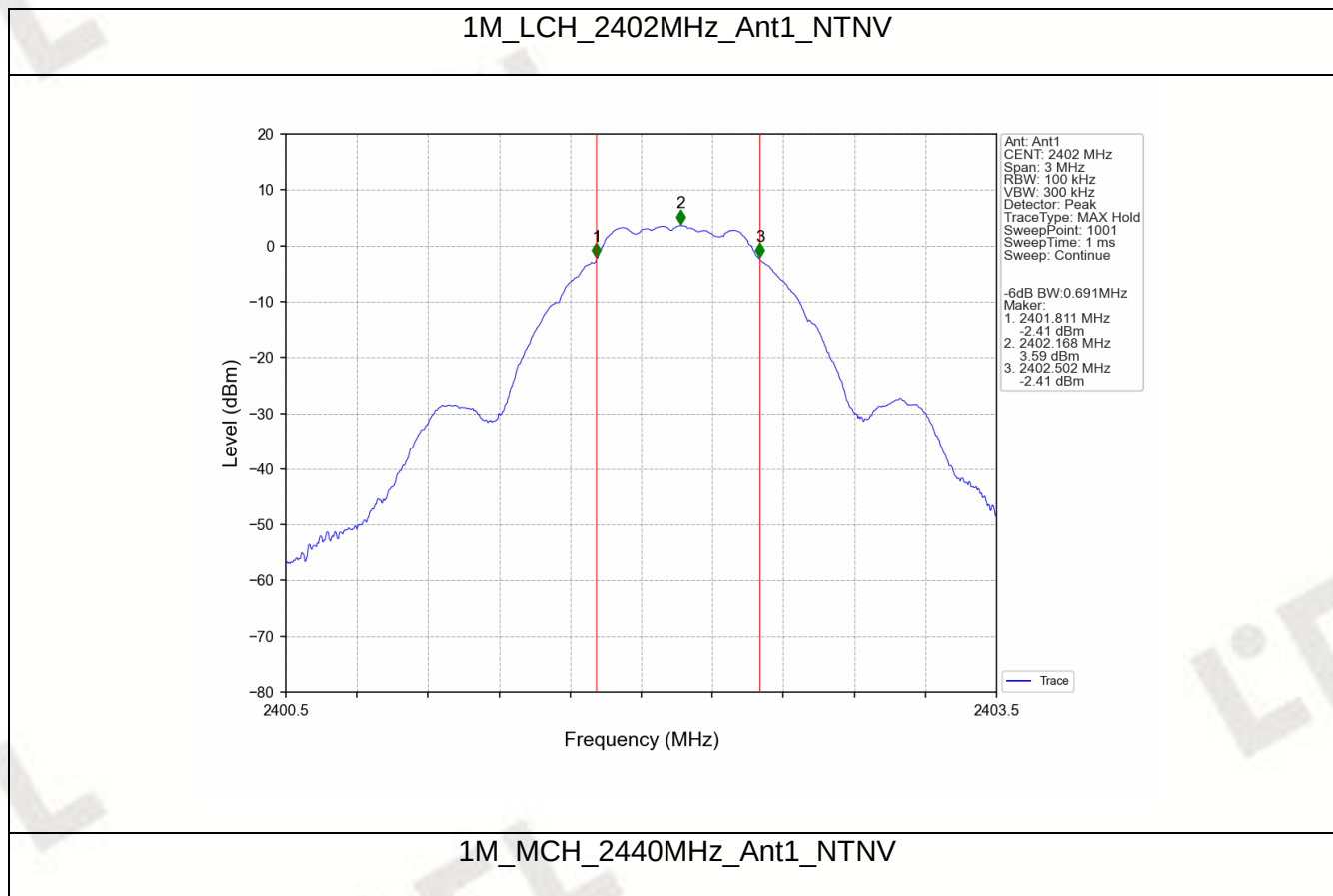
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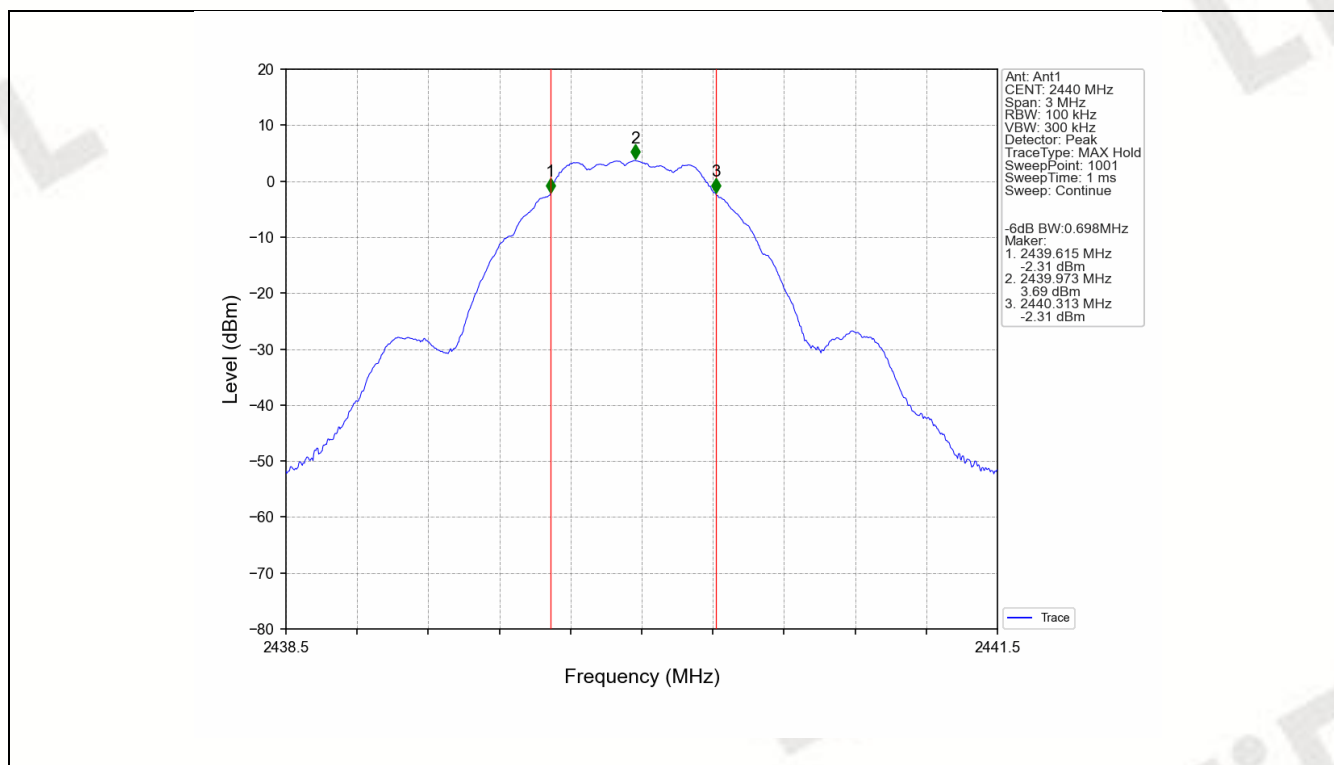
FCC ID: 2BFCV-BIKE3



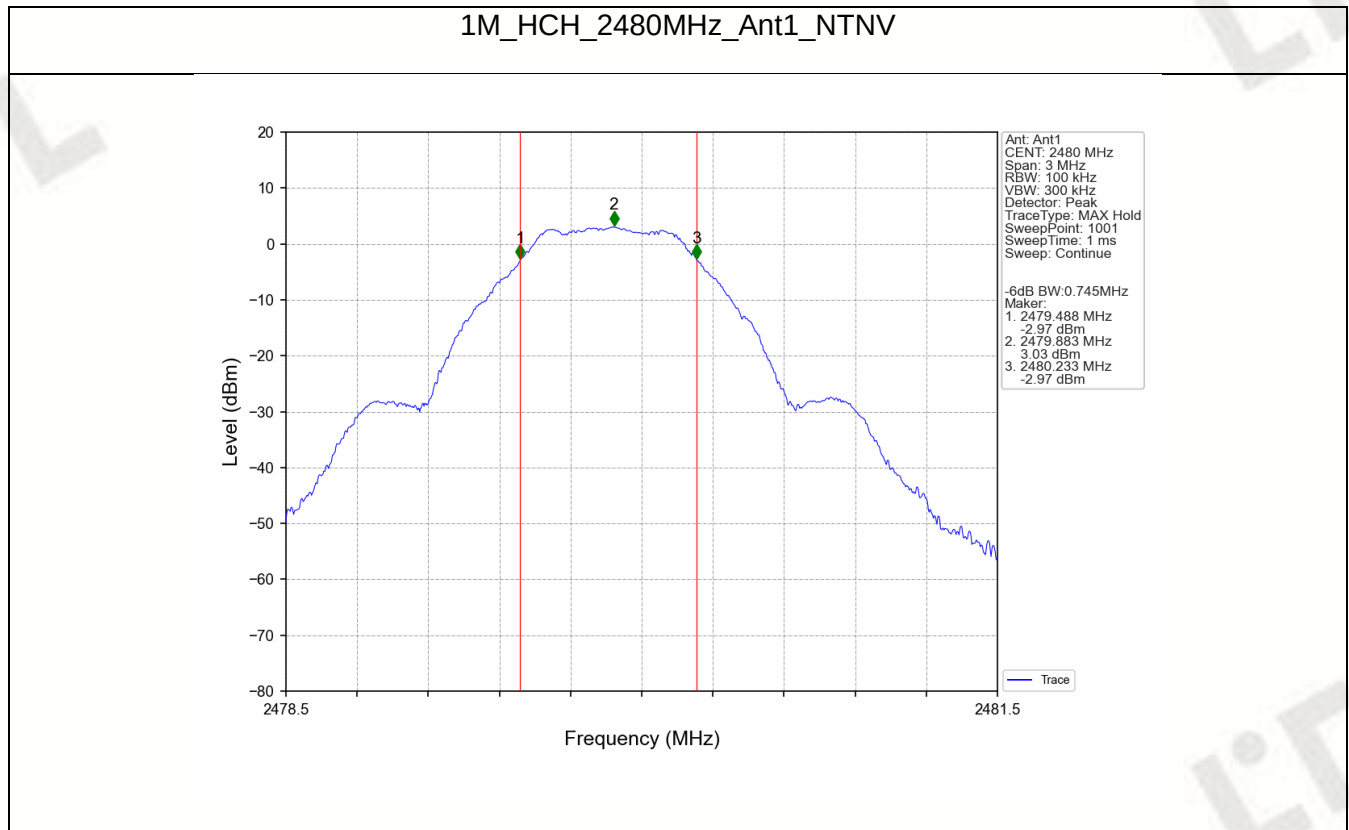
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**2.2.2 6dB BW**

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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            | 4.58                                      | <=30  | Pass    |
|                                      |         | 2440            | 4.69                                      | <=30  | Pass    |
|                                      |         | 2480            | 3.97                                      | <=30  | Pass    |
| Note1: Antenna Gain: Ant1: -3.81dBi; |         |                 |                                           |       |         |

FCC ID: 2BFCV-BIKE3

#### 4. Maximum Power Spectral Density

##### 4.1 Test Result

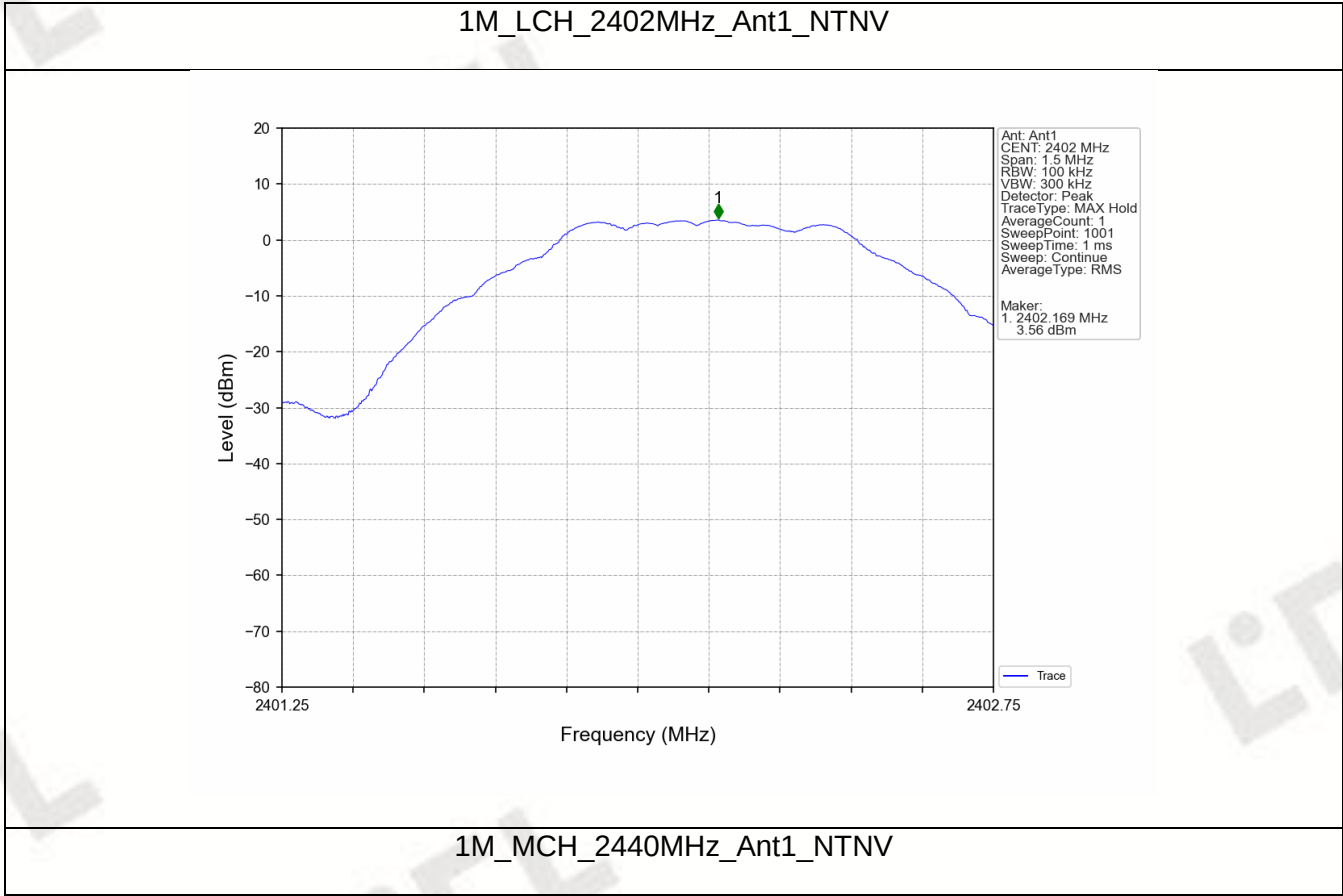
###### 4.1.1 PSD

| Mode                                 | TX Type | Frequency (MHz) | Maximum PSD (dBm) |                 | Verdict |
|--------------------------------------|---------|-----------------|-------------------|-----------------|---------|
|                                      |         |                 | ANT1              | Limit(dBm/3kHz) |         |
| 1M                                   | SISO    | 2402            | 3.56dBm/100kHz    | <=8             | Pass    |
|                                      |         | 2440            | 3.61dBm/100kHz    | <=8             | Pass    |
|                                      |         | 2480            | 3.04dBm/100kHz    | <=8             | Pass    |
| Note1: Antenna Gain: Ant1: -3.81dBi; |         |                 |                   |                 |         |

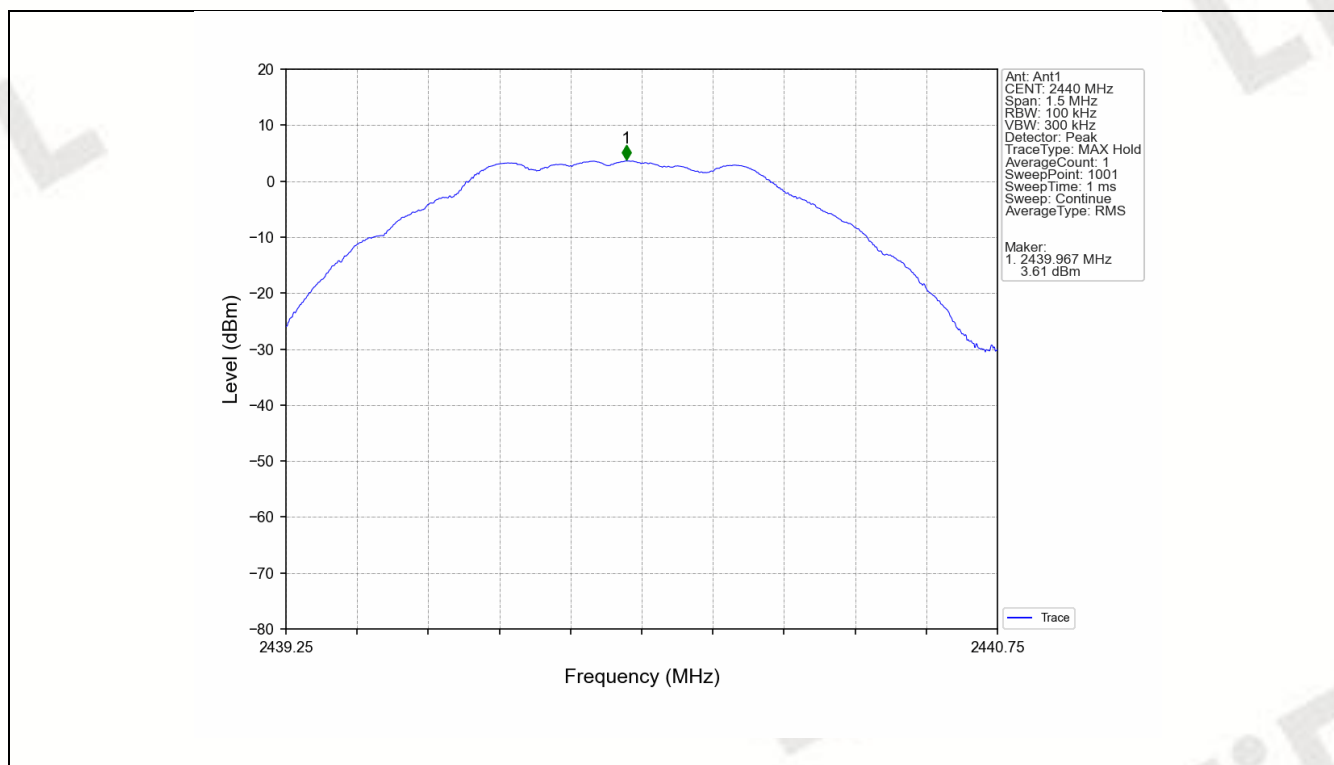
FCC ID: 2BFCV-BIKE3

4.2 Test Graph

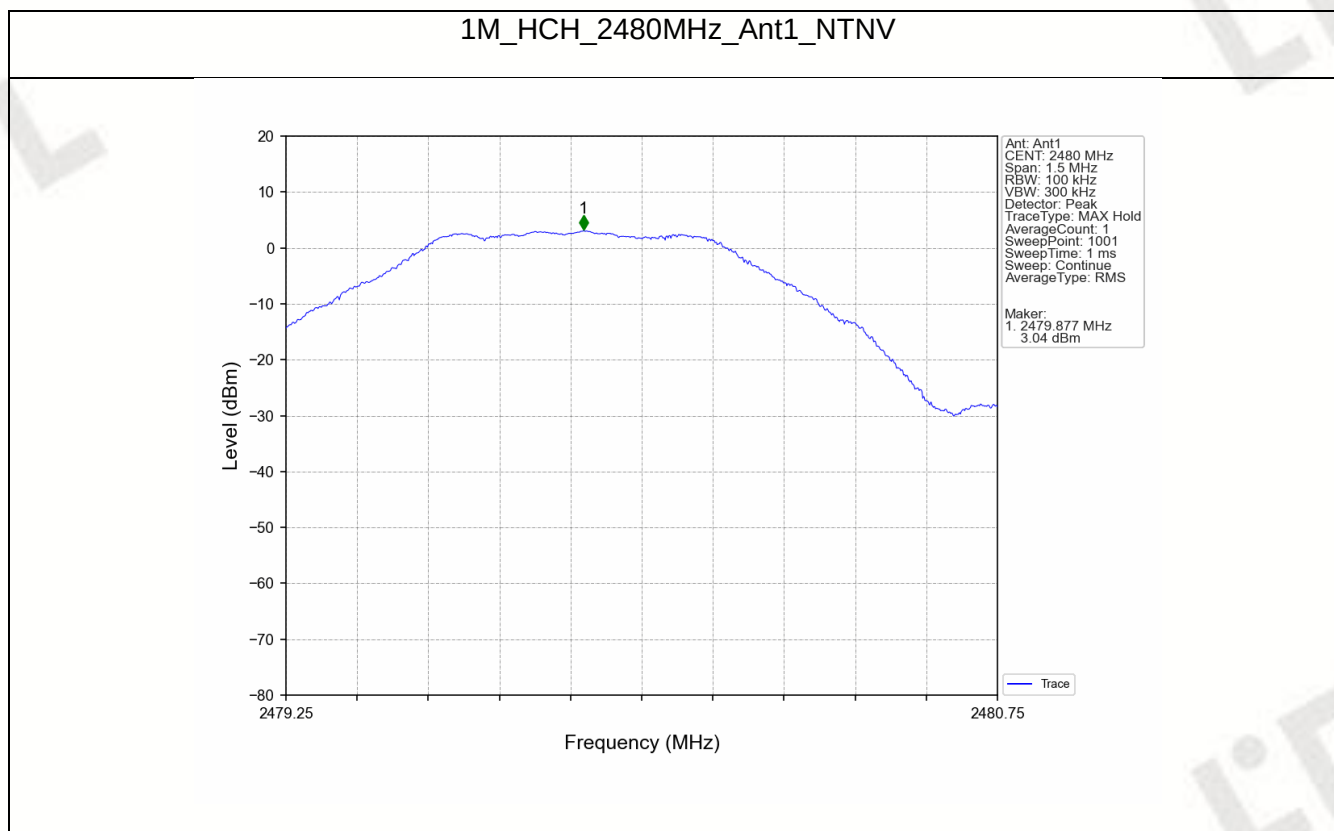
4.2.1 PSD



FCC ID: 2BFCV-BIKE3



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## 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   | 3.59                     |
|      |         | 2440            | 1   | 3.63                     |
|      |         | 2480            | 1   | 3.02                     |

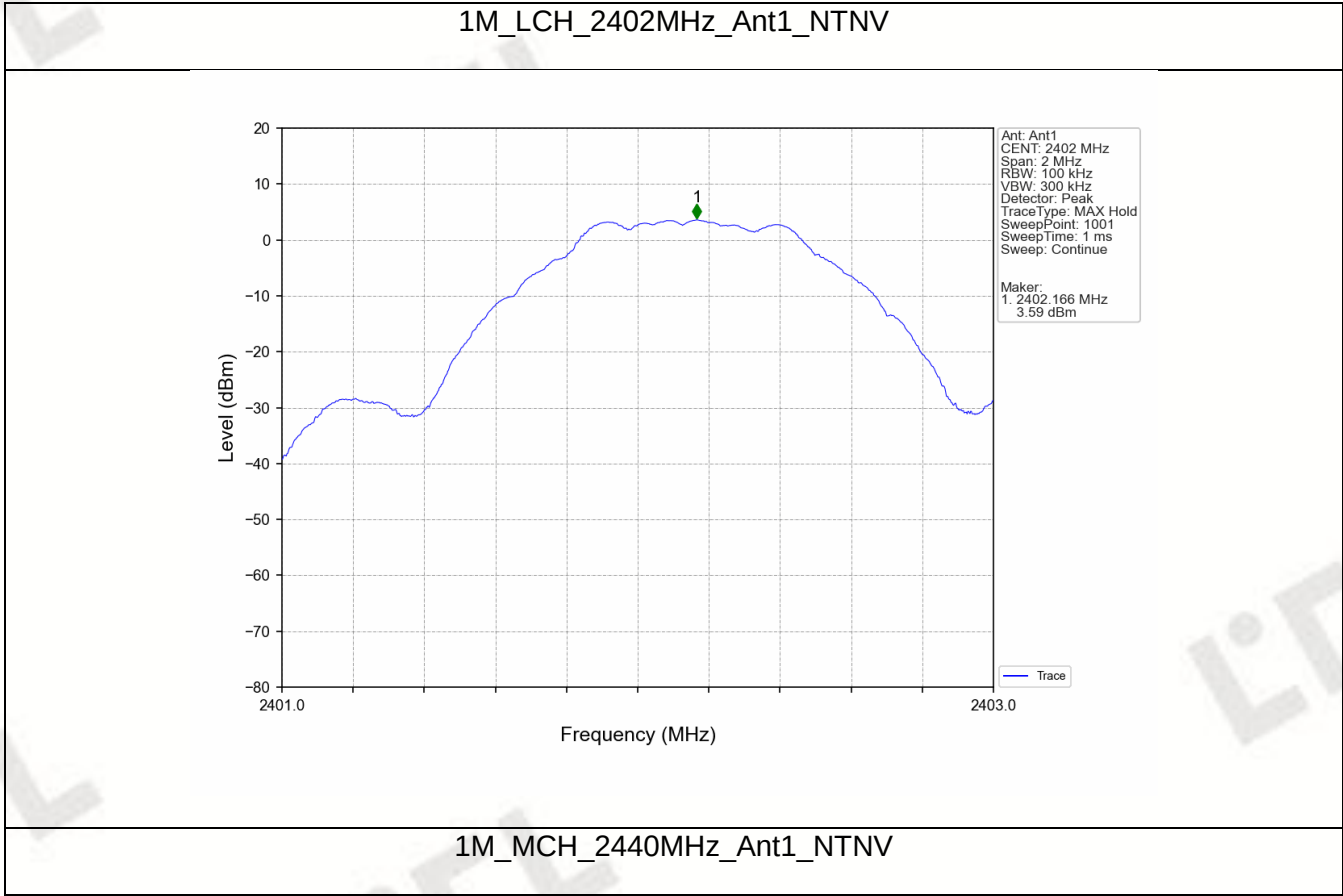
#### 5.1.2 CSE

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M   | SISO    | 2402            | 1   | 3.59                     | -16.41      | Pass    |
|      |         | 2440            | 1   | 3.63                     | -16.37      | Pass    |
|      |         | 2480            | 1   | 3.02                     | -16.98      | Pass    |

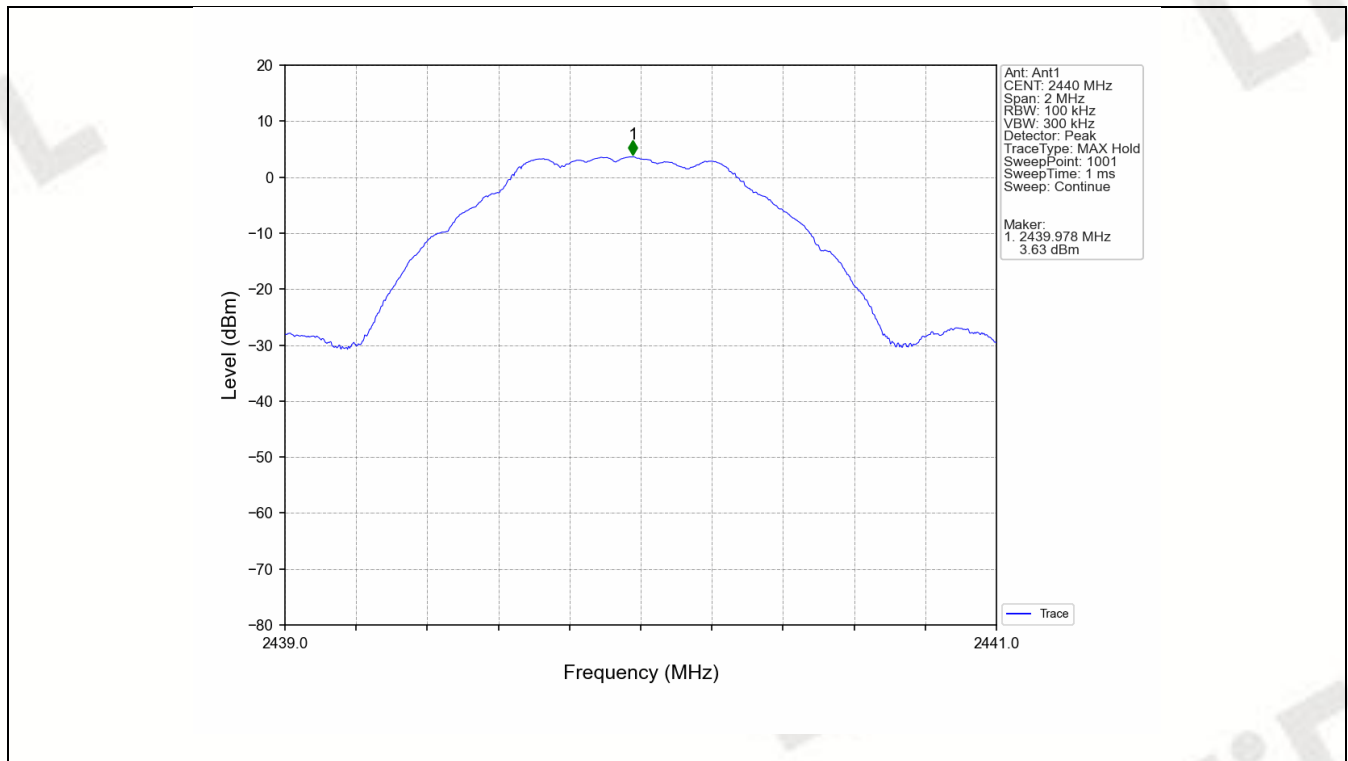
FCC ID: 2BFCV-BIKE3

5.2 Test Graph

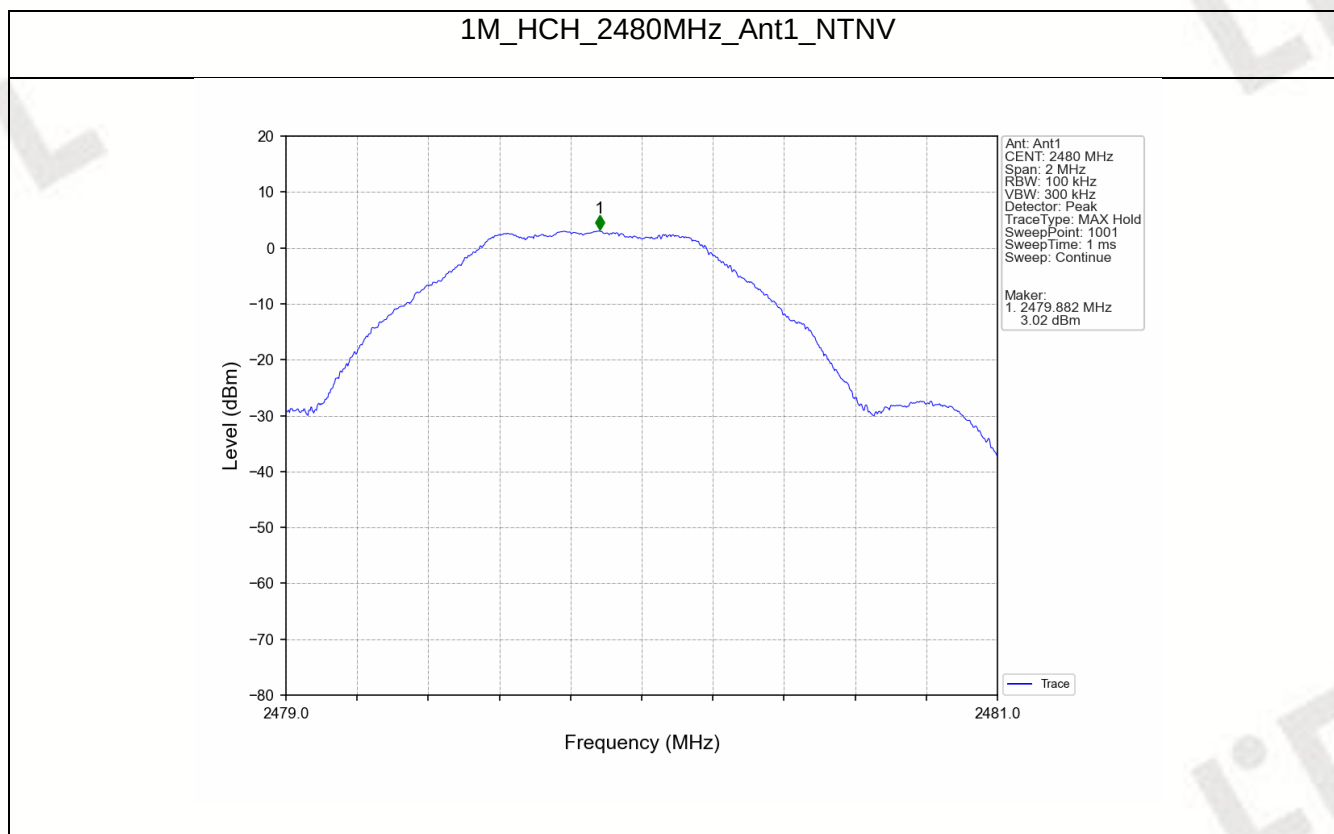
5.2.1 Ref



FCC ID: 2BFCV-BIKE3

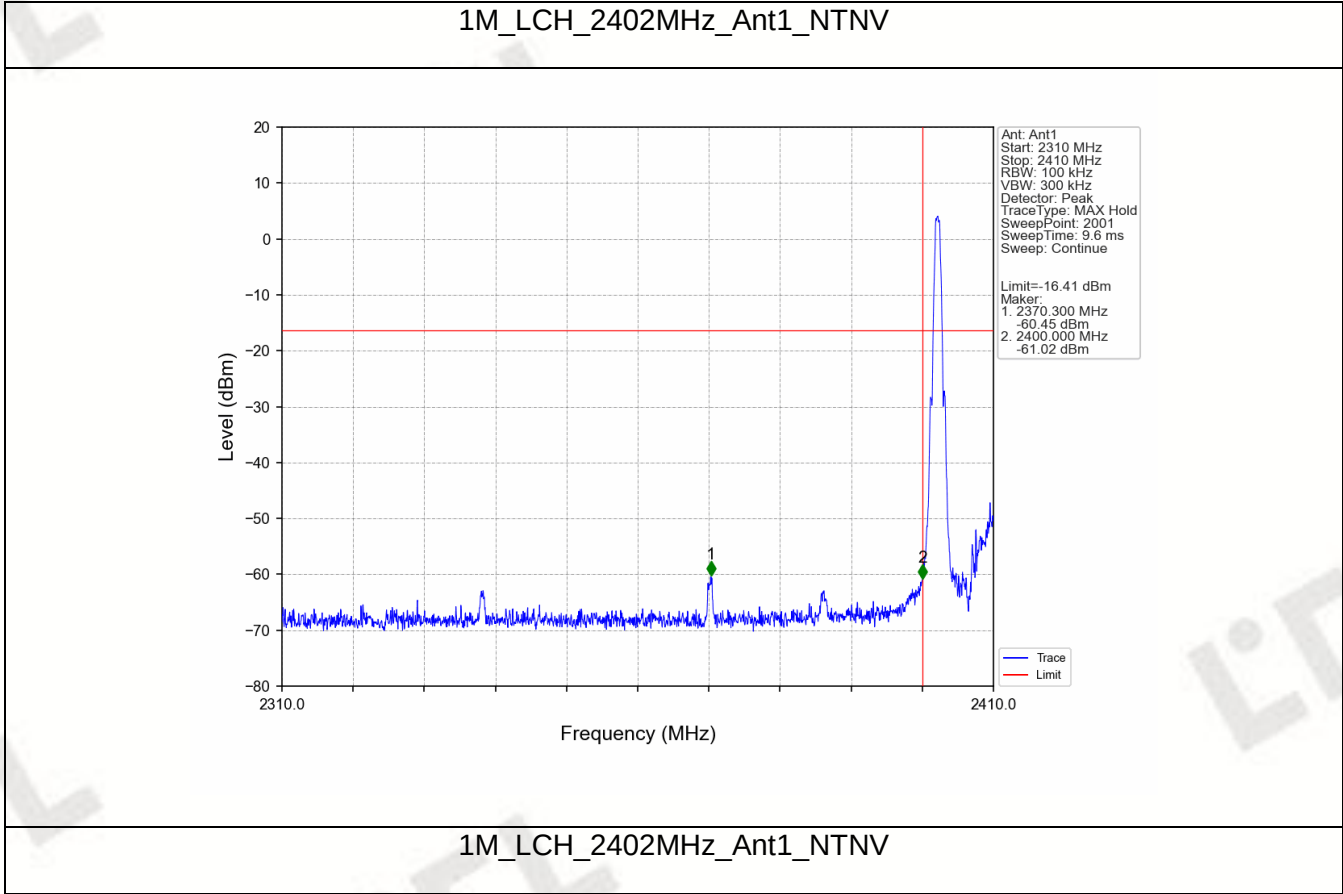


FCC ID: 2BFCV-BIKE3

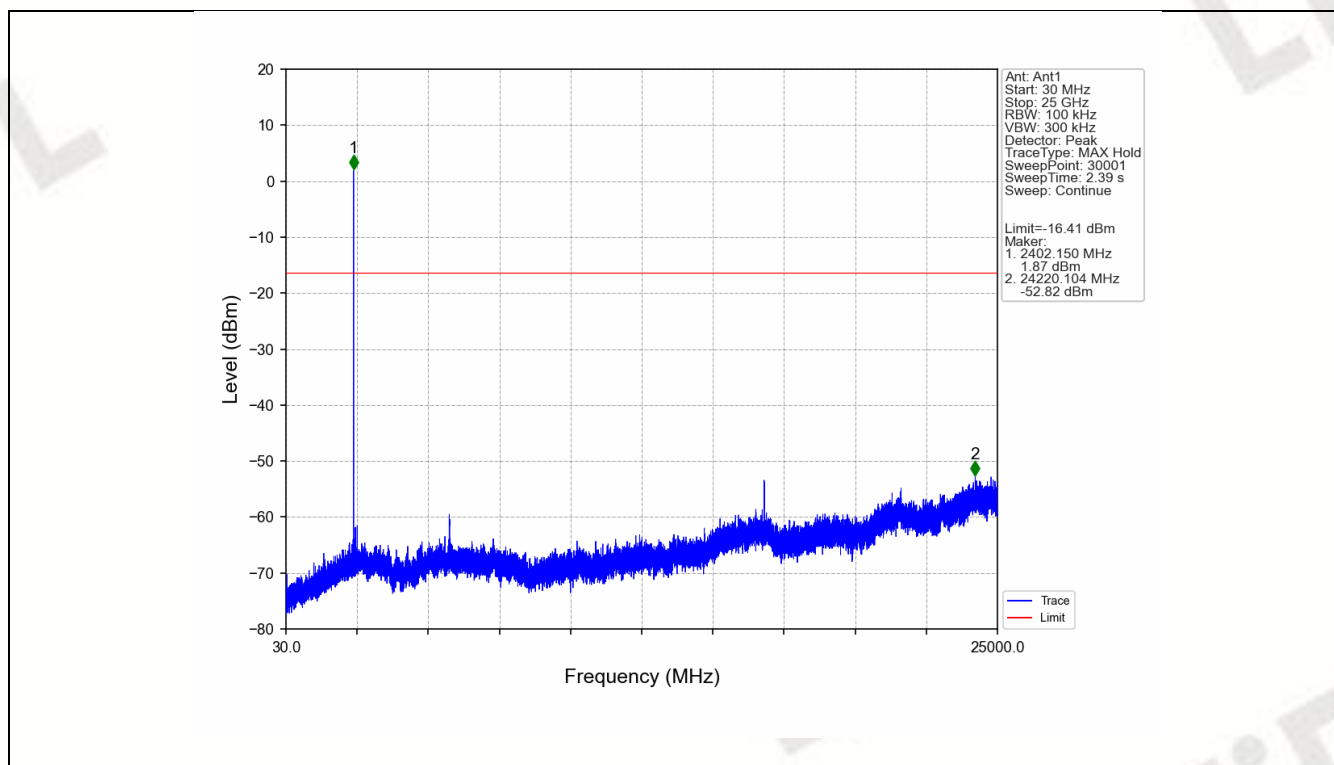


FCC ID: 2BFCV-BIKE3

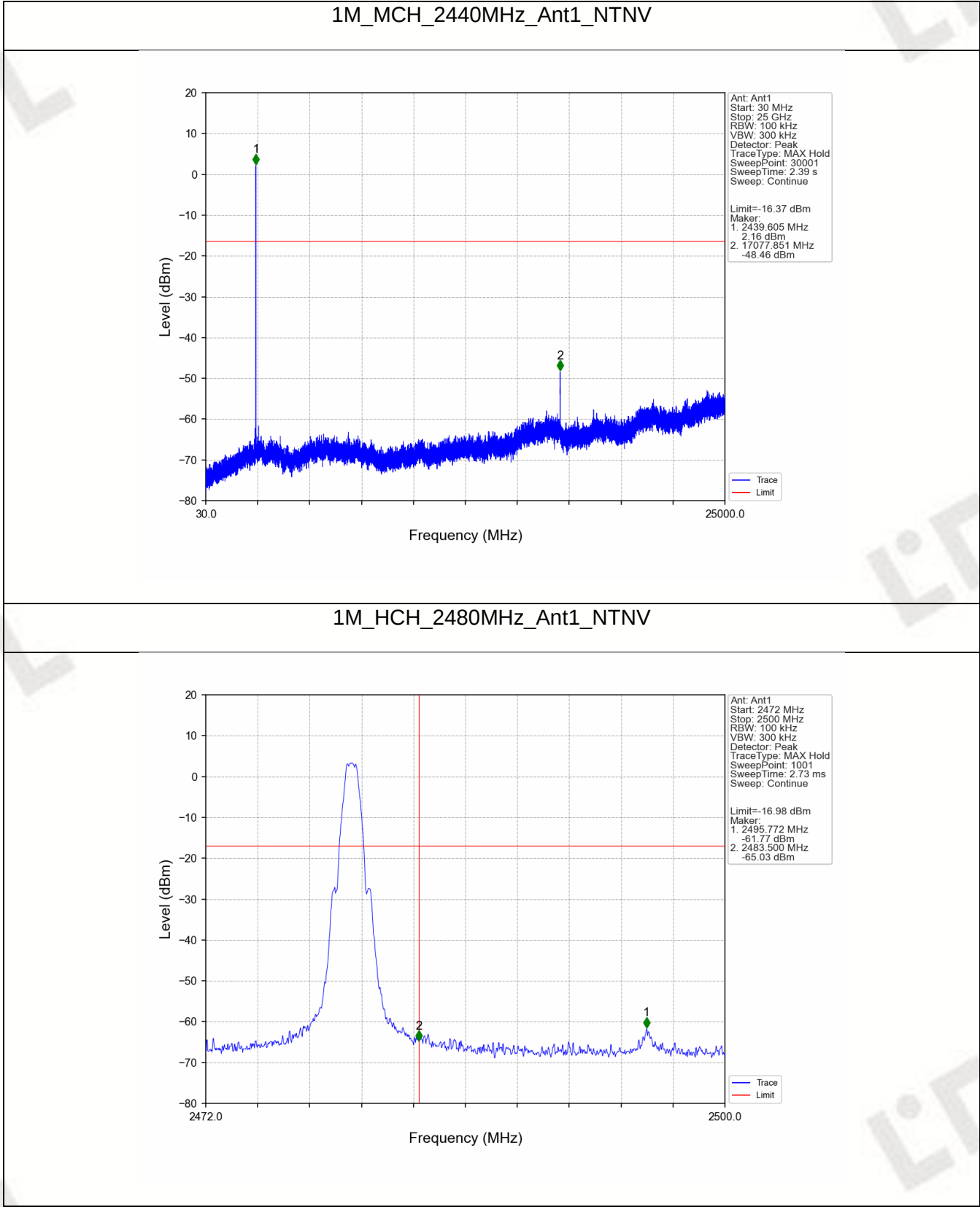
5.2.2 CSE



FCC ID: 2BFCV-BIKE3



FCC ID: 2BFCV-BIKE3



FCC ID: 2BFCV-BIKE3

