

## Appendix D for KSCR220100003204AT-FCC-BLE-MT7668

## 1. Duty Cycle

## 1.1 Ant1

## 1.1.1 Test Result

| Ant1 |         |                 |           |             |                |                                   |                       |
|------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 1M   | SISO    | 2402            | 0.377     | 0.625       | 60.32          | 2.20                              | 0.00                  |
|      |         | 2440            | 0.377     | 0.625       | 60.32          | 2.20                              | 0.00                  |
|      |         | 2480            | 0.377     | 0.625       | 60.32          | 2.20                              | 0.00                  |



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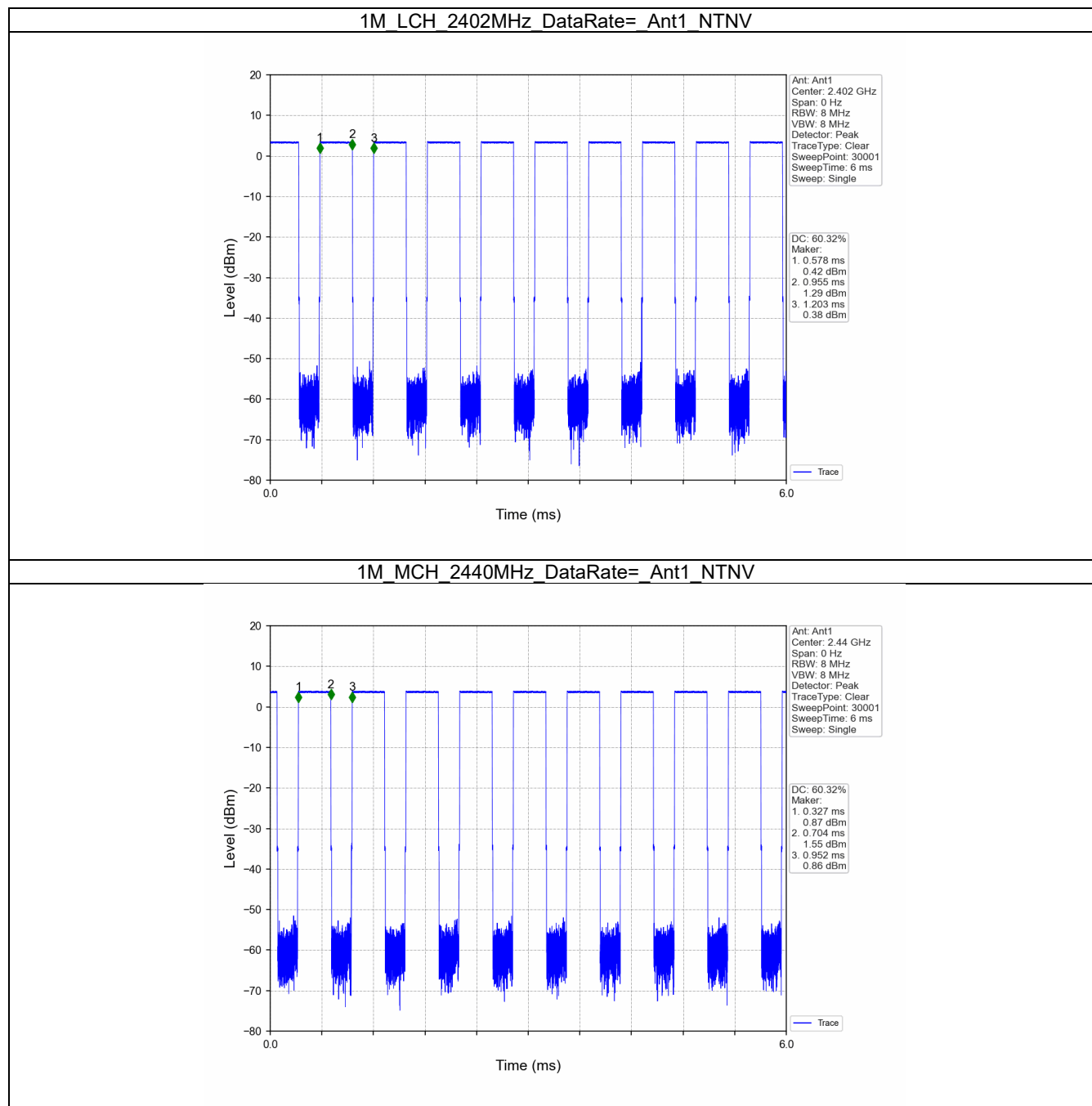
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## 1.1.2 Test Graph



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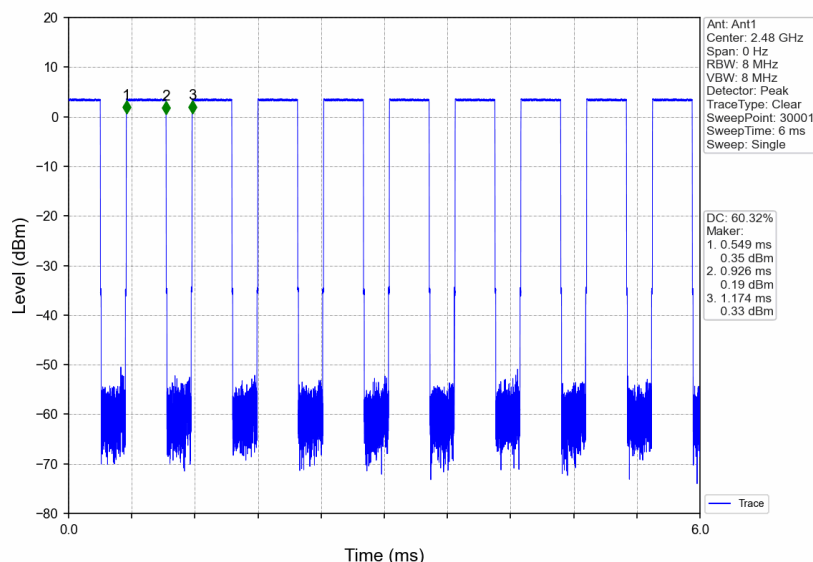
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1M\_HCH\_2480MHz\_DataRate= Ant1\_NTNV



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Ant | 99% Occupied Bandwidth (MHz) | Verdict |
|------|---------|-----------------|-----|------------------------------|---------|
|      |         |                 |     | Result                       |         |
| 1M   | SISO    | 2402            | 1   | 1.027                        | Pass    |
|      |         | 2440            | 1   | 1.027                        | Pass    |
|      |         | 2480            | 1   | 1.027                        | Pass    |



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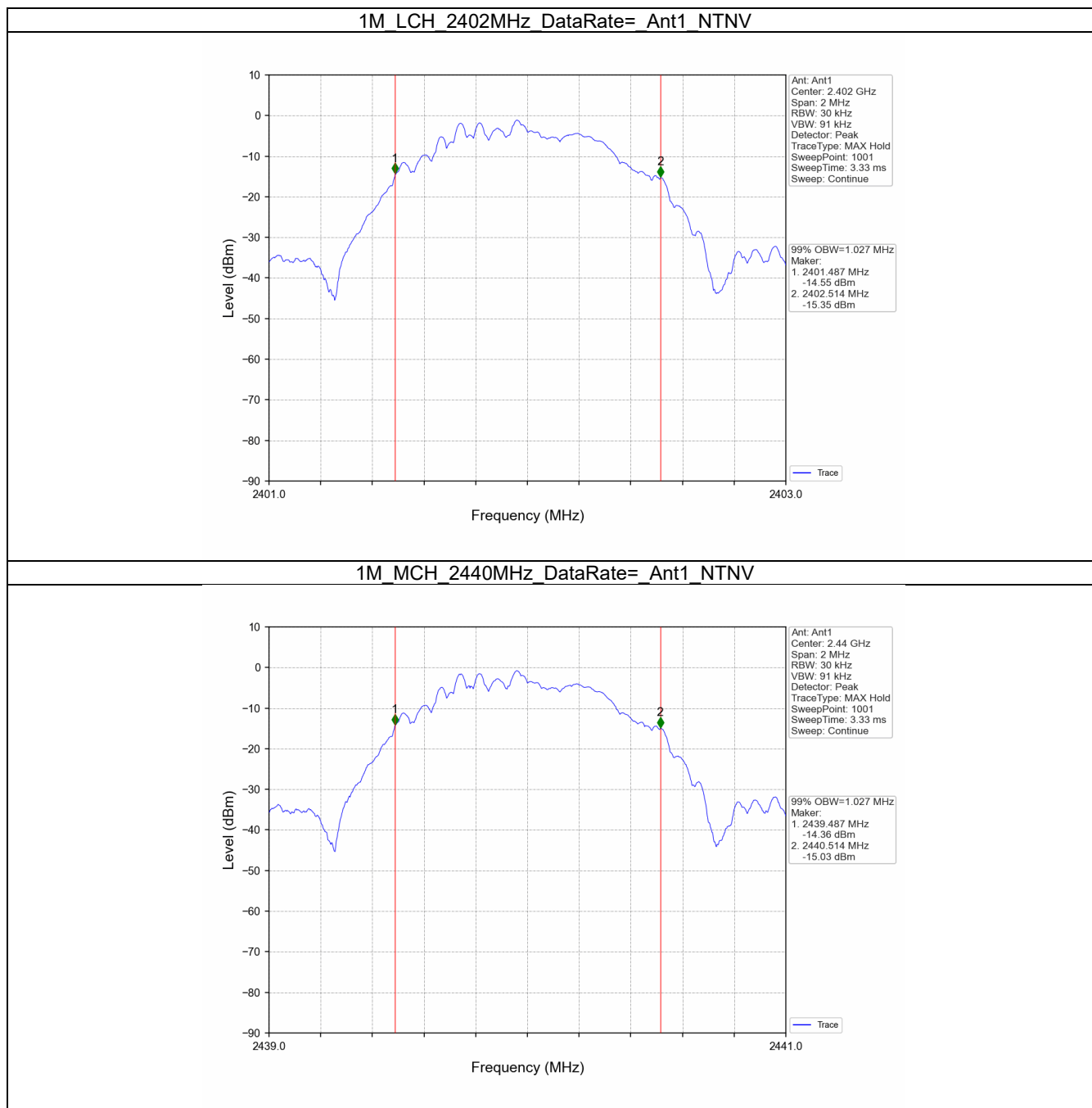
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## 2.1.2 Test Graph



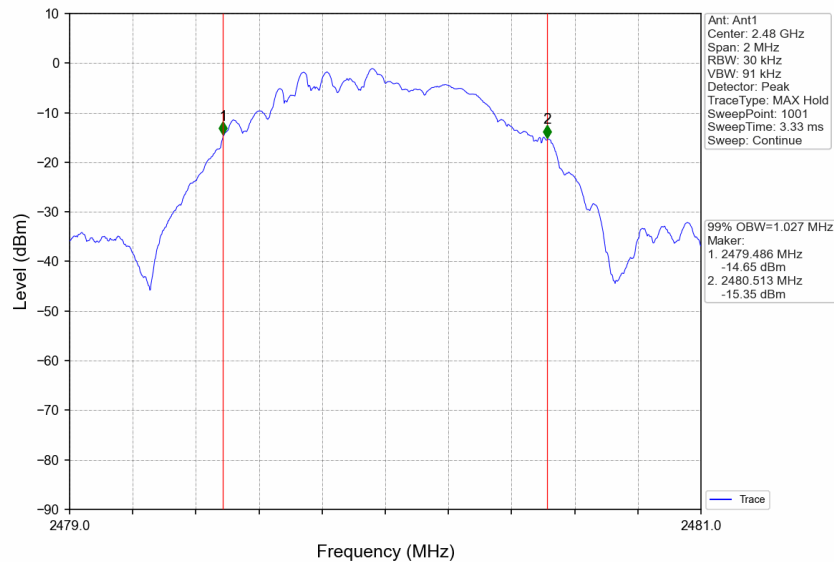
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## 2.2 6dB BW

### 2.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | Ant | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| 1M   | SISO    | 2402            | 1   | 0.701               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 0.698               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 0.692               | $\geq 0.5$ | Pass    |



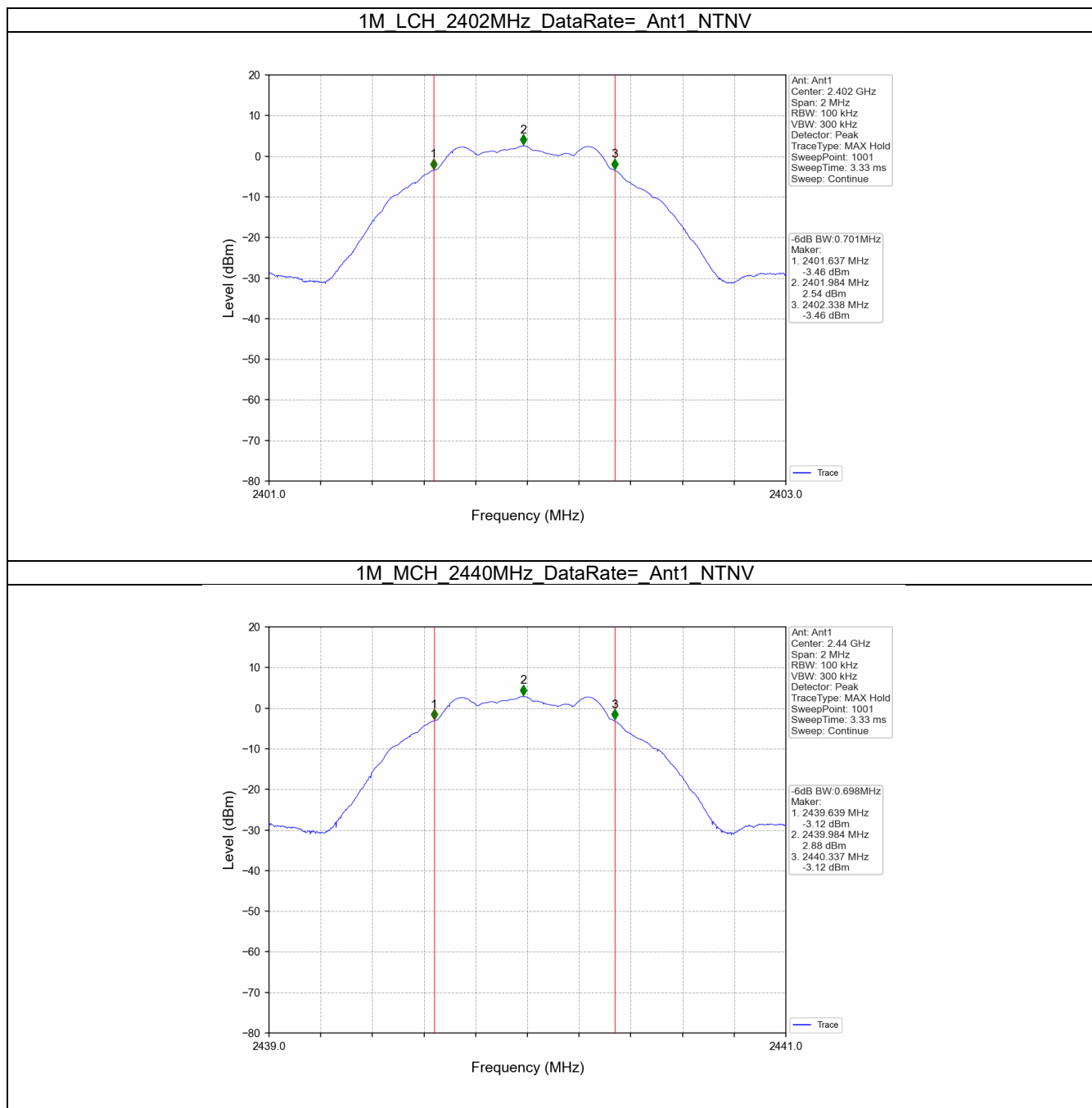
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## 2.2.2 Test Graph



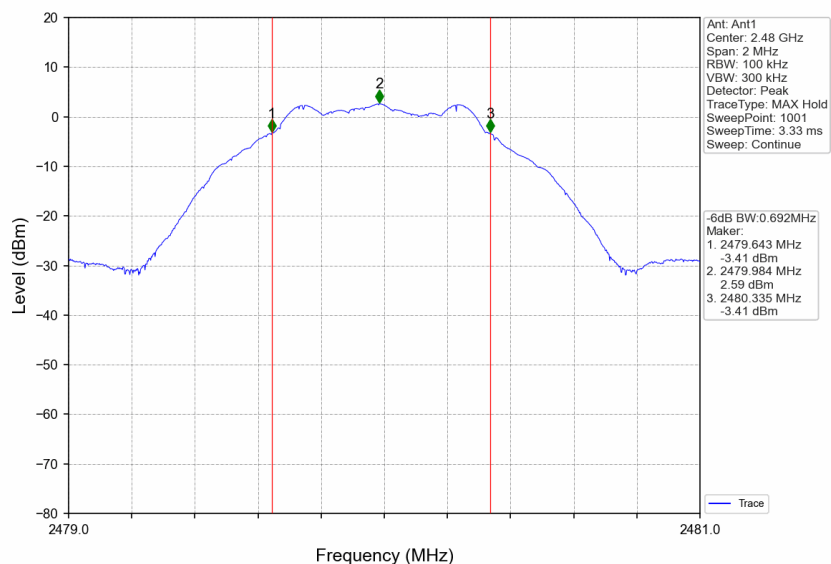
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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|------|---------|-----------------|-------------------------------------------|-------|---------|
|      |         |                 | Ant1                                      | Limit |         |
| 1M   | SISO    | 2402            | 3.50                                      | <=30  | Pass    |
|      |         | 2440            | 3.83                                      | <=30  | Pass    |
|      |         | 2480            | 3.53                                      | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 5.19dBi;



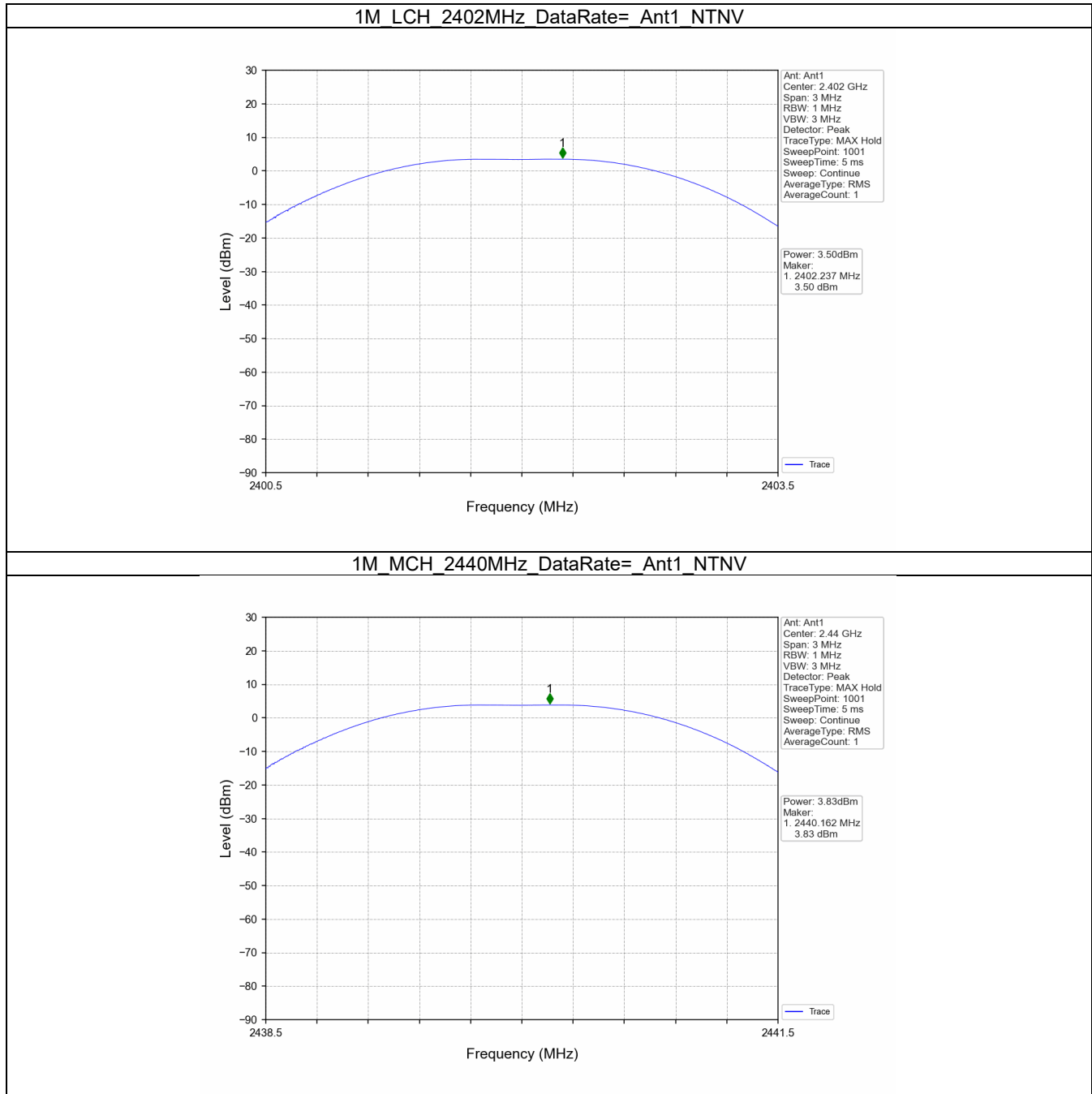
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## 3.1.2 Test Graph



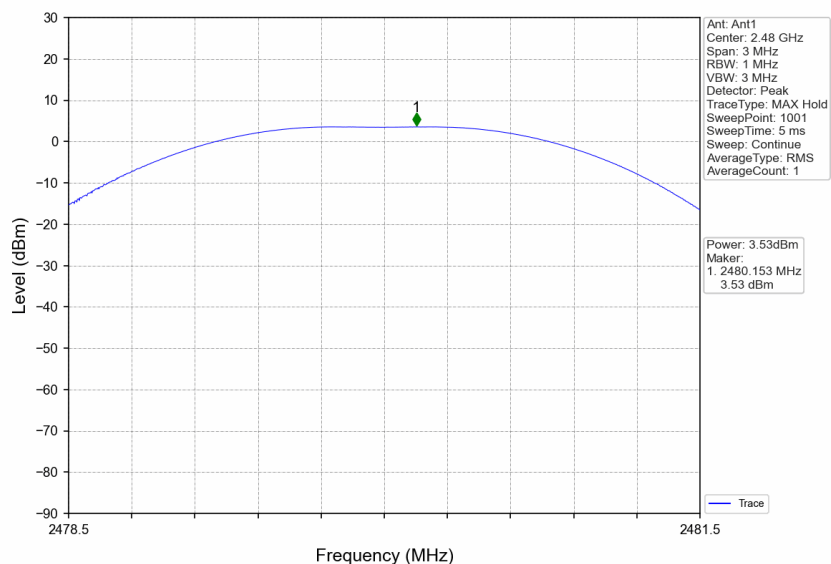
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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       | Verdict |
|------|---------|-----------------|------------------------|-------|---------|
|      |         |                 | Ant1                   | Limit |         |
| 1M   | SISO    | 2402            | -12.26                 | <=8   | Pass    |
|      |         | 2440            | -12.18                 | <=8   | Pass    |
|      |         | 2480            | -12.23                 | <=8   | Pass    |

Note1: Antenna Gain: Ant1: 5.19dBi;



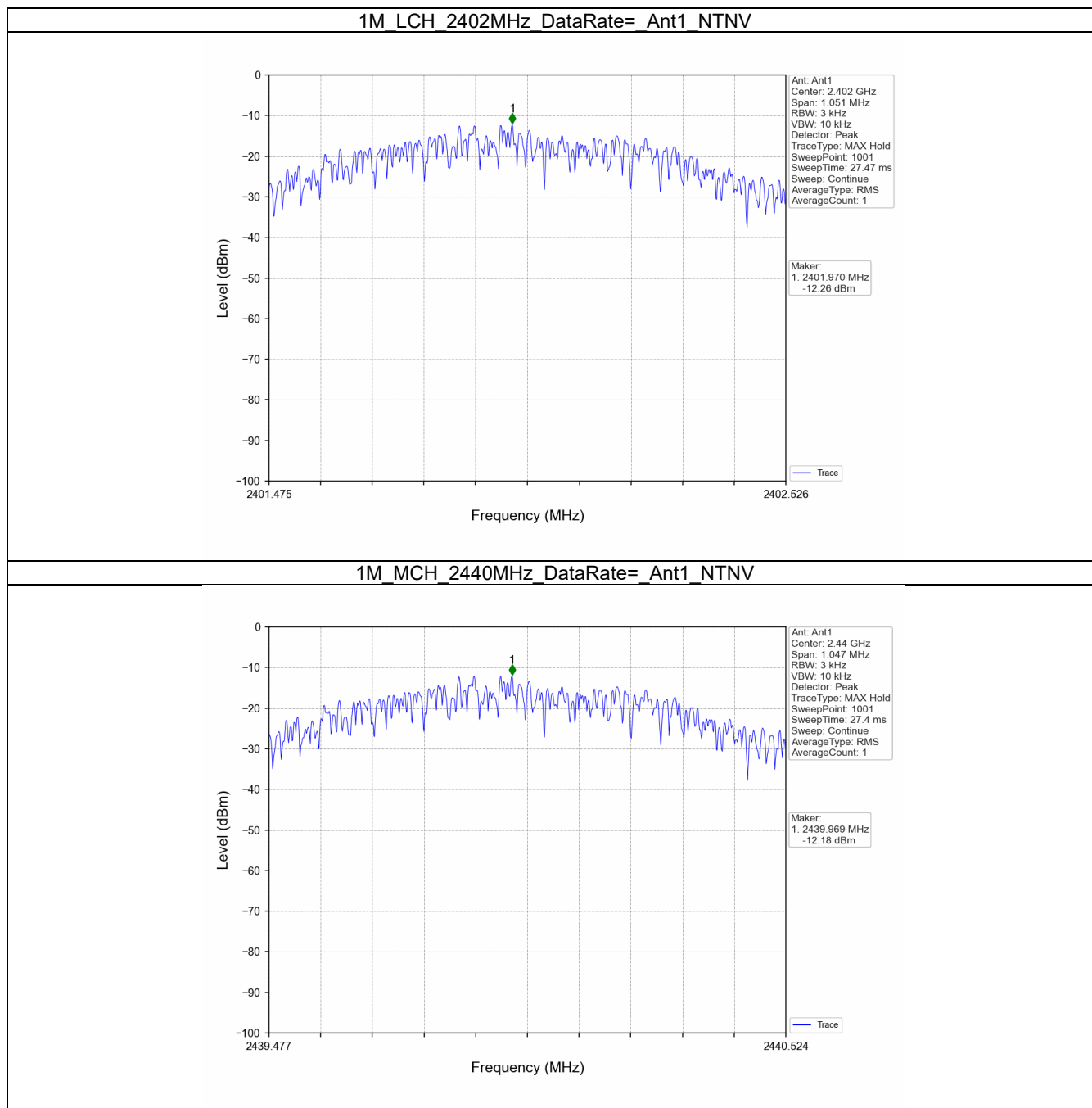
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## 4.1.2 Test Graph



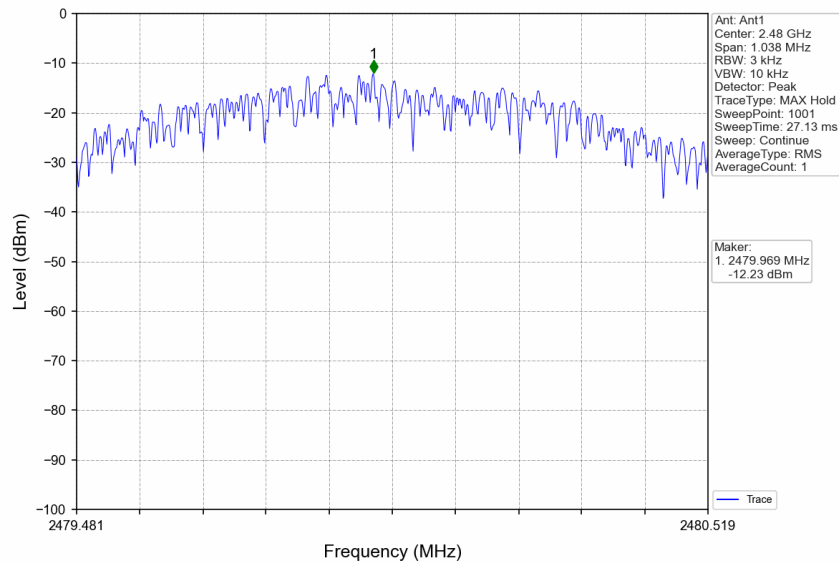
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

| Mode                                                                                                                                            | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|
| 1M                                                                                                                                              | SISO    | 2402            | 1   | 2.54                     |
|                                                                                                                                                 |         | 2440            | 1   | 2.88                     |
|                                                                                                                                                 |         | 2480            | 1   | 2.59                     |
| Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level. |         |                 |     |                          |
| Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.               |         |                 |     |                          |



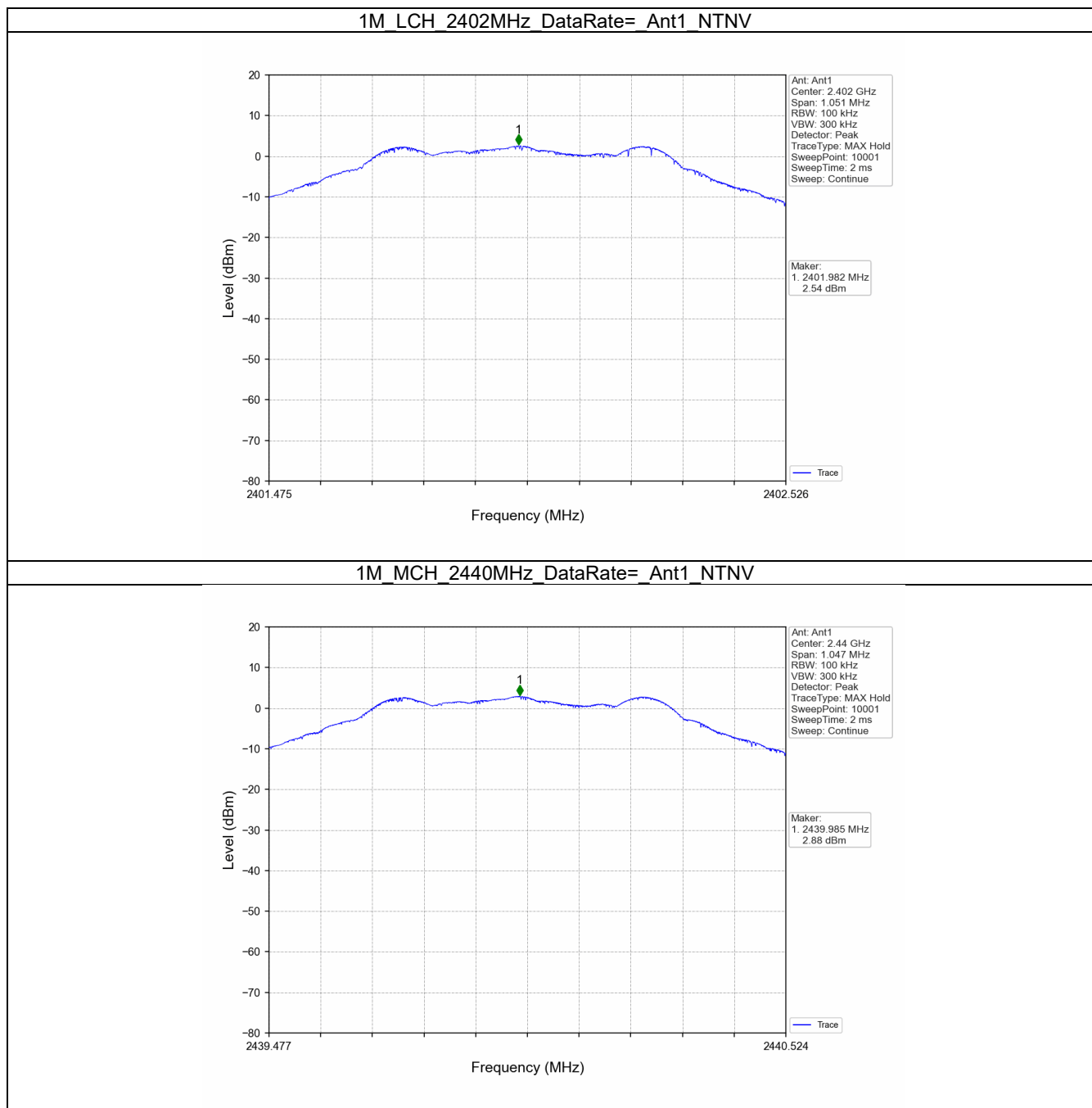
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## 5.1.2 Test Graph



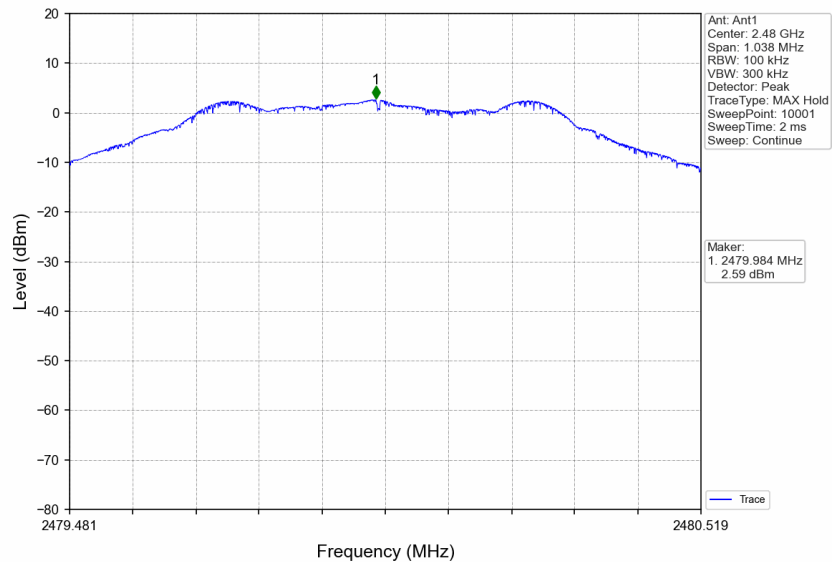
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## 5.2 CSE

### 5.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M   | SISO    | 2402            | 1   | 2.88                     | -17.12      | Pass    |
|      |         | 2440            | 1   | 2.88                     | -17.12      | Pass    |
|      |         | 2480            | 1   | 2.88                     | -17.12      | Pass    |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



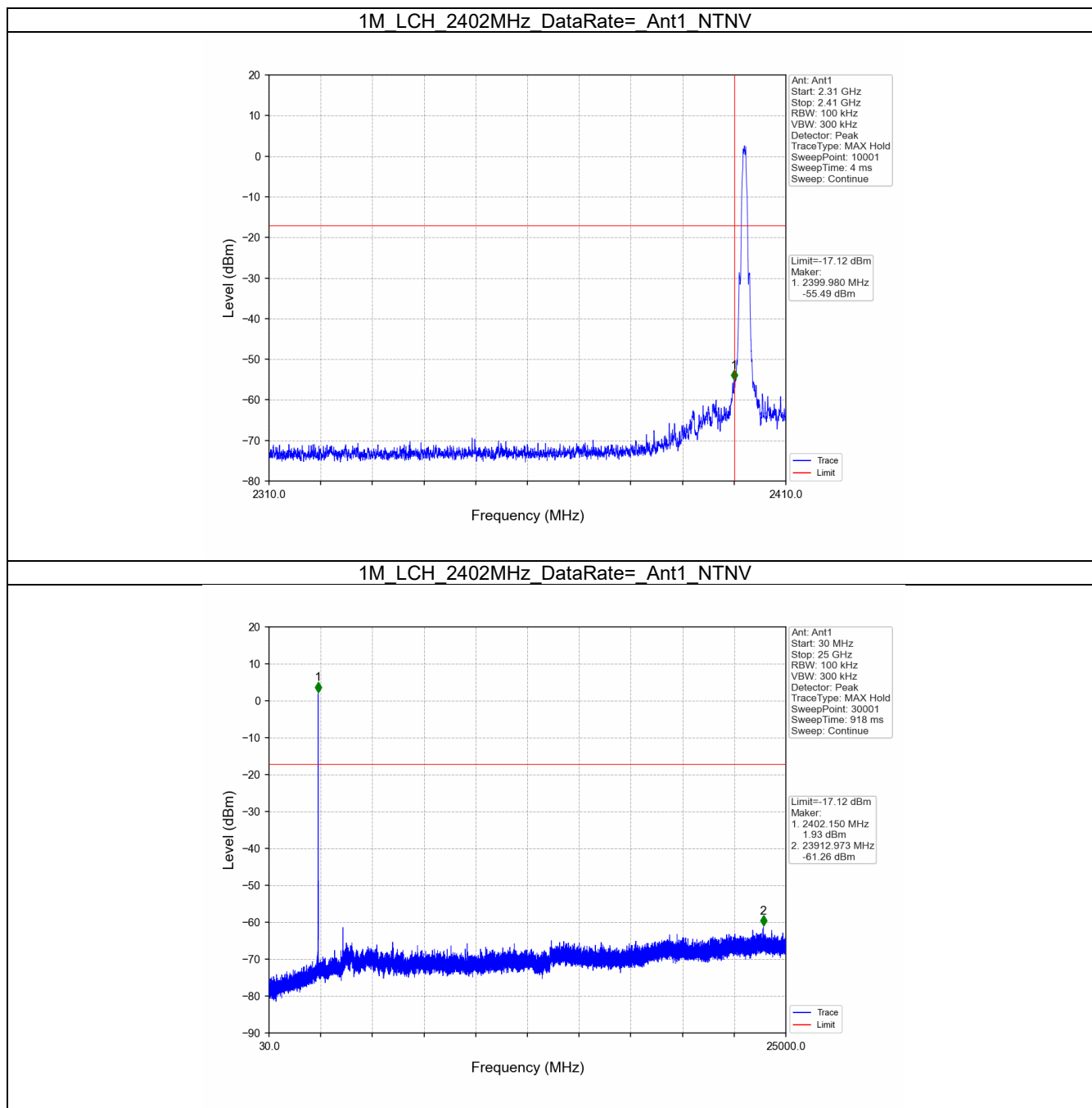
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## 5.2.2 Test Graph



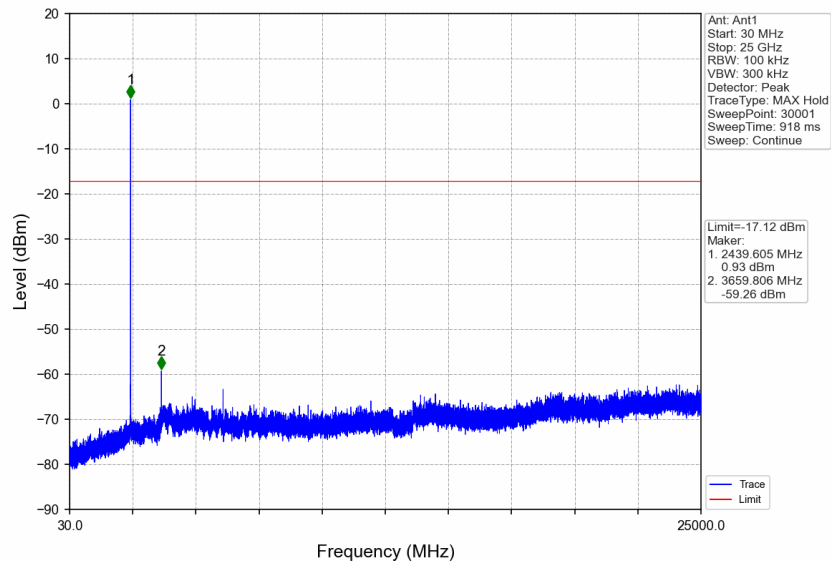
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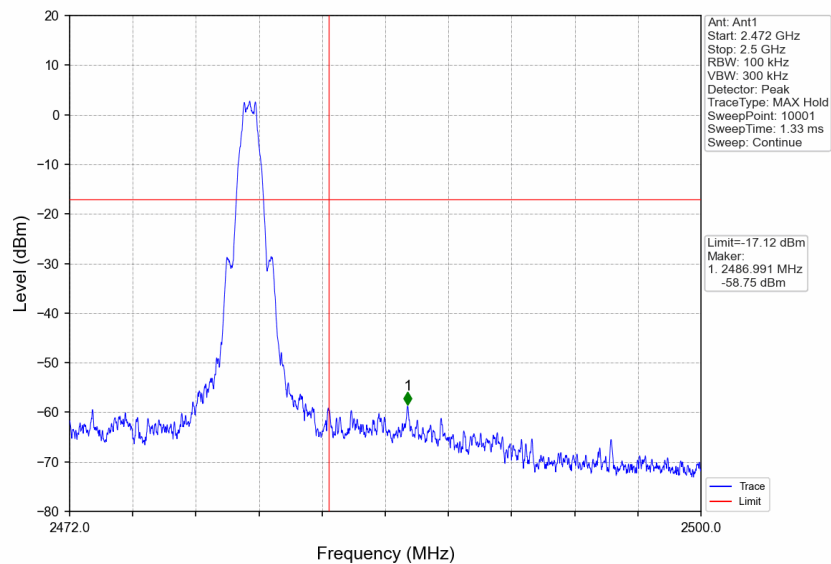
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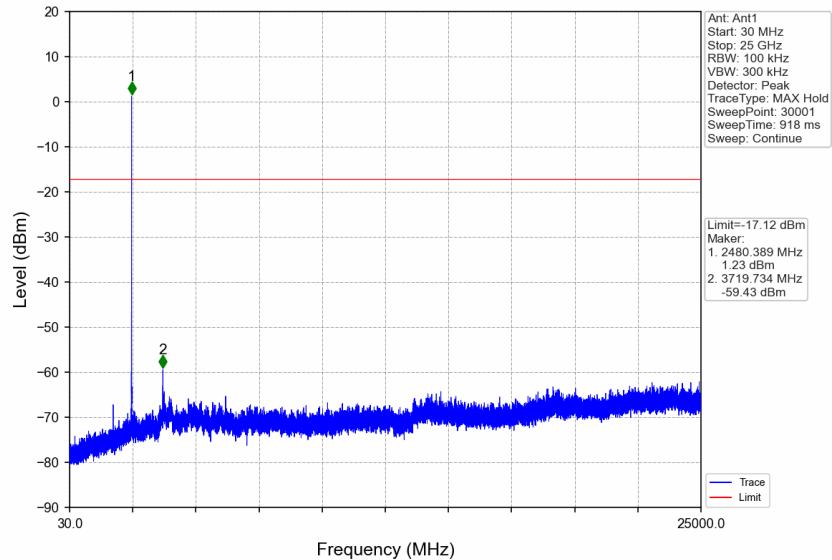
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