



## RF Test Data

For

|                      |                                             |
|----------------------|---------------------------------------------|
| Project No.:         | DLE-260415022                               |
| Client:              | Fuzhou SaiFu Electronic Technology Co., Ltd |
| Manufacturer:        | Fuzhou SaiFu Electronic Technology Co., Ltd |
| Product Description: | Warning Light                               |
| Test Model:          | SF-M029                                     |
| Test Engineer:       | Alisa Song                                  |
| Test Date:           | 2026-03-16                                  |

## Test Summary

| Item                        | Result |
|-----------------------------|--------|
| Frequency Error             | Pass   |
| Occupied Bandwidth          | Pass   |
| Spread Bandwidth            | Pass   |
| Antenna Power               | Pass   |
| Spurious Emission Intensity | Pass   |
| Secondary Radiated Emission | Pass   |



## 1. Frequency Error

### 1.1 Test Result

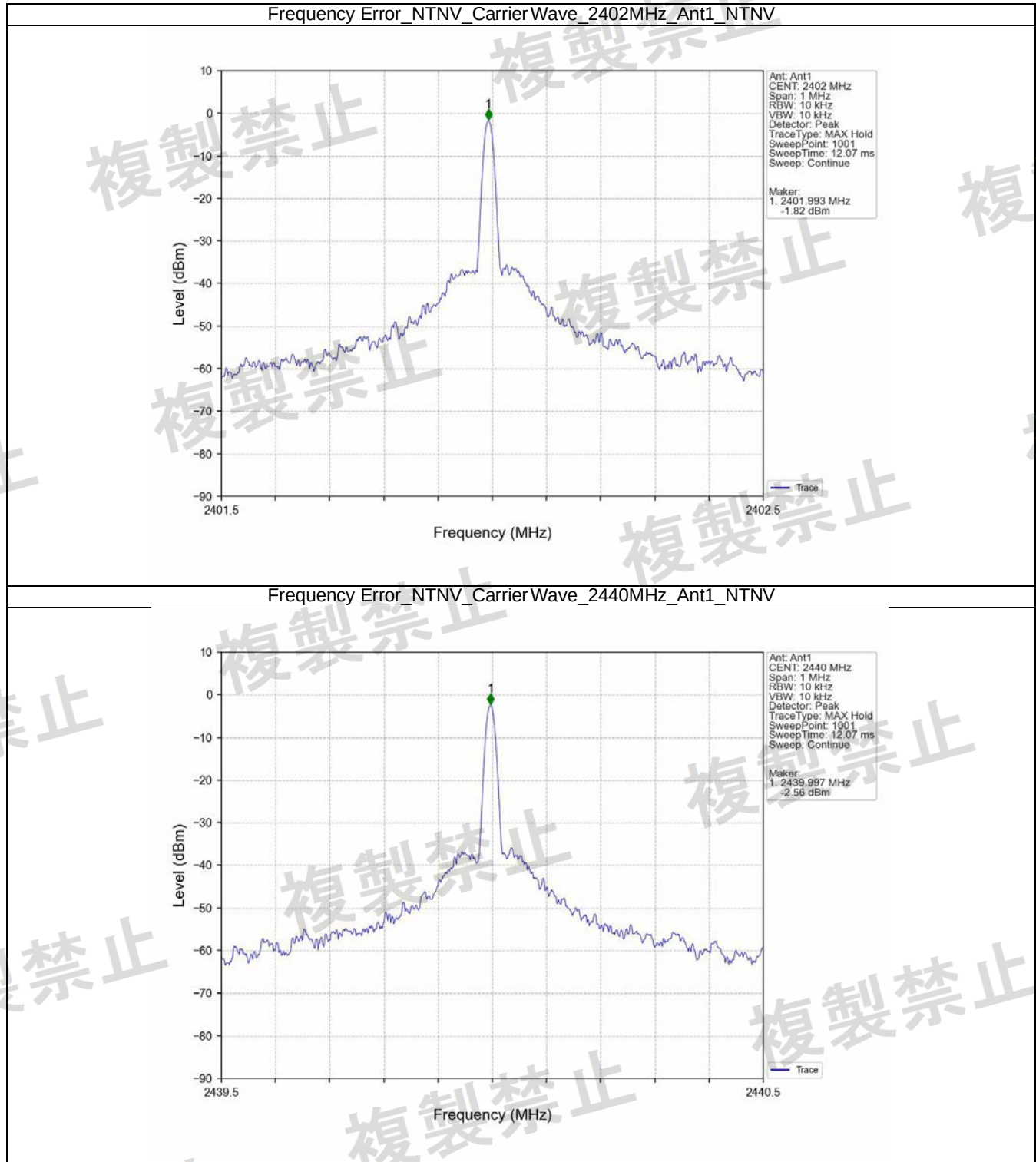
#### 1.1.1 Ant1

| Ant1 |              |         |                 |                          |                 |           |         |
|------|--------------|---------|-----------------|--------------------------|-----------------|-----------|---------|
| ENV  | Mode         | TX Type | Frequency (MHz) | Measured Frequency (MHz) | Tolerance (ppm) |           | Verdict |
|      |              |         |                 |                          | Result          | Limit     |         |
| NTNV | Carrier Wave | SISO    | 2402            | 2401.993                 | -2.91           | -50 to 50 | Pass    |
|      |              |         | 2440            | 2439.997                 | -1.23           | -50 to 50 | Pass    |
|      |              |         | 2480            | 2479.993                 | -2.82           | -50 to 50 | Pass    |



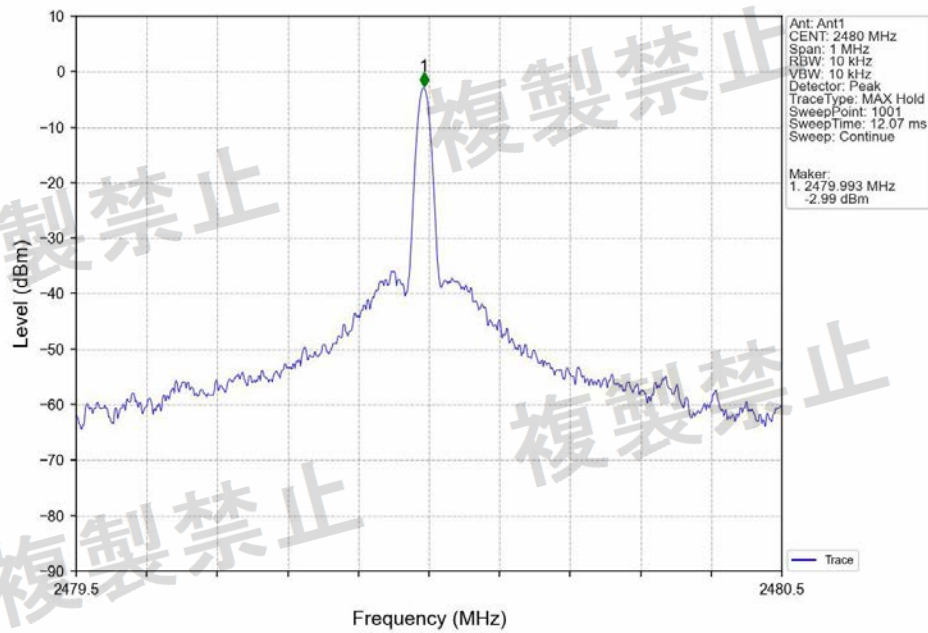
## 1.2 Test Graph

### 1.2.1 Ant1





Frequency Error\_NTNV\_Carrier Wave\_2480MHz\_Ant1\_NTNV





## 2. Occupied Bandwidth

### 2.1 Test Result

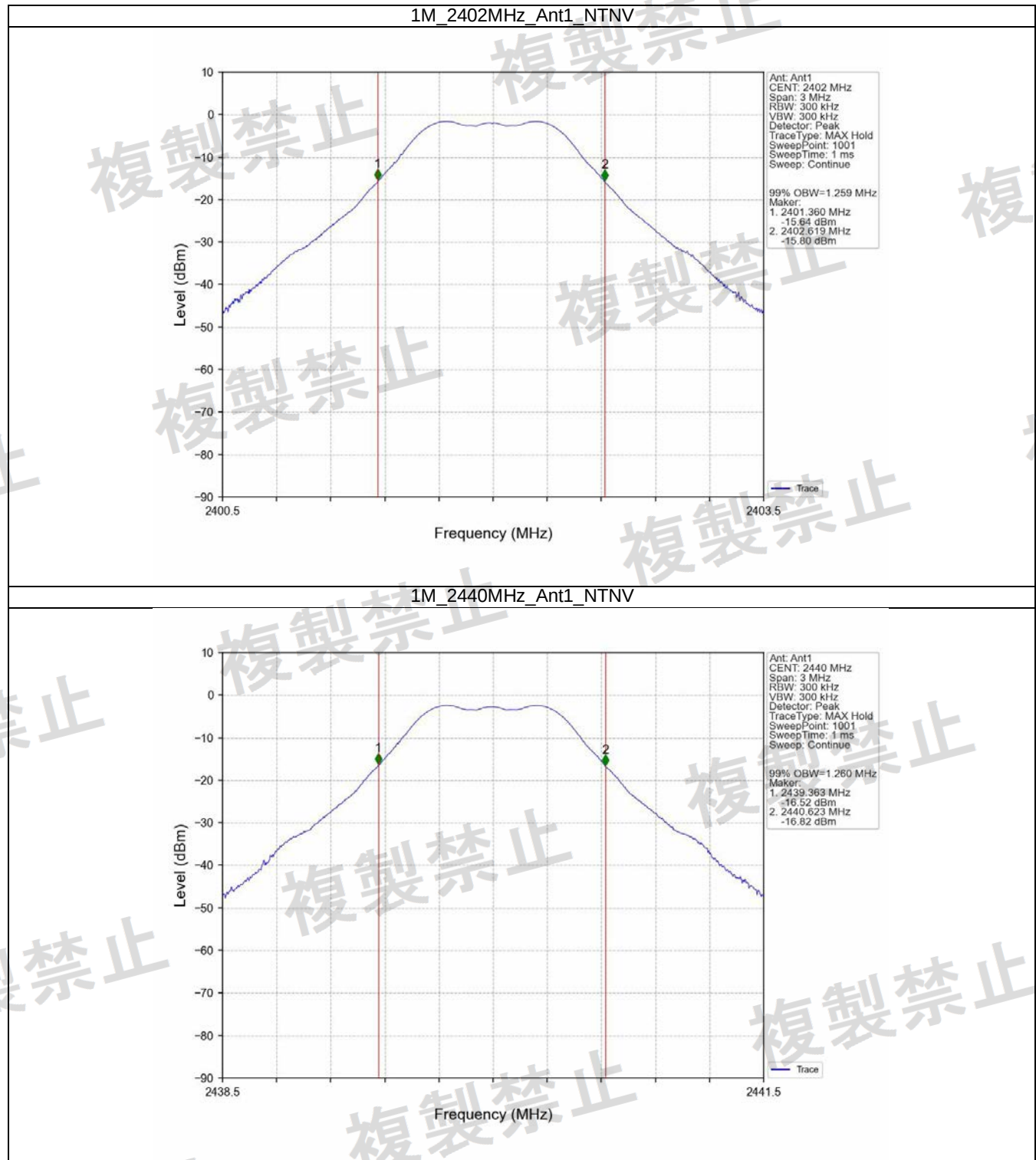
#### 2.1.1 OBW

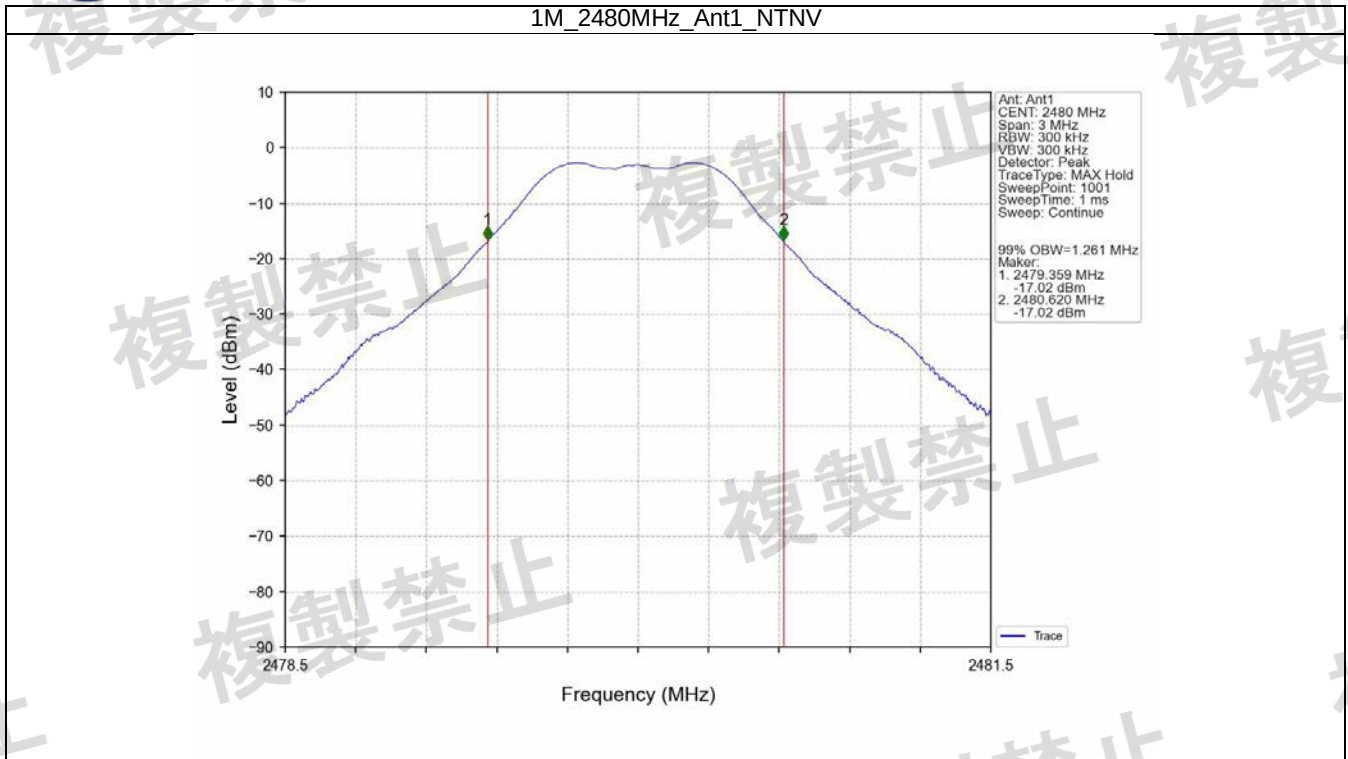
| ENV  | Mode | TX<br>Type | Frequency<br>(MHz) | 99% Occupied Bandwidth (MHz) |           | Verdict |
|------|------|------------|--------------------|------------------------------|-----------|---------|
|      |      |            |                    | ANT1                         | Limit     |         |
| NTNV | 1M   | SISO       | 2402               | 1.259                        | $\leq 26$ | Pass    |
|      |      |            | 2440               | 1.260                        | $\leq 26$ | Pass    |
|      |      |            | 2480               | 1.261                        | $\leq 26$ | Pass    |



## 2.2 Test Graph

### 2.2.1 OBW







### 3. Spread Bandwidth

#### 3.1 Test Result

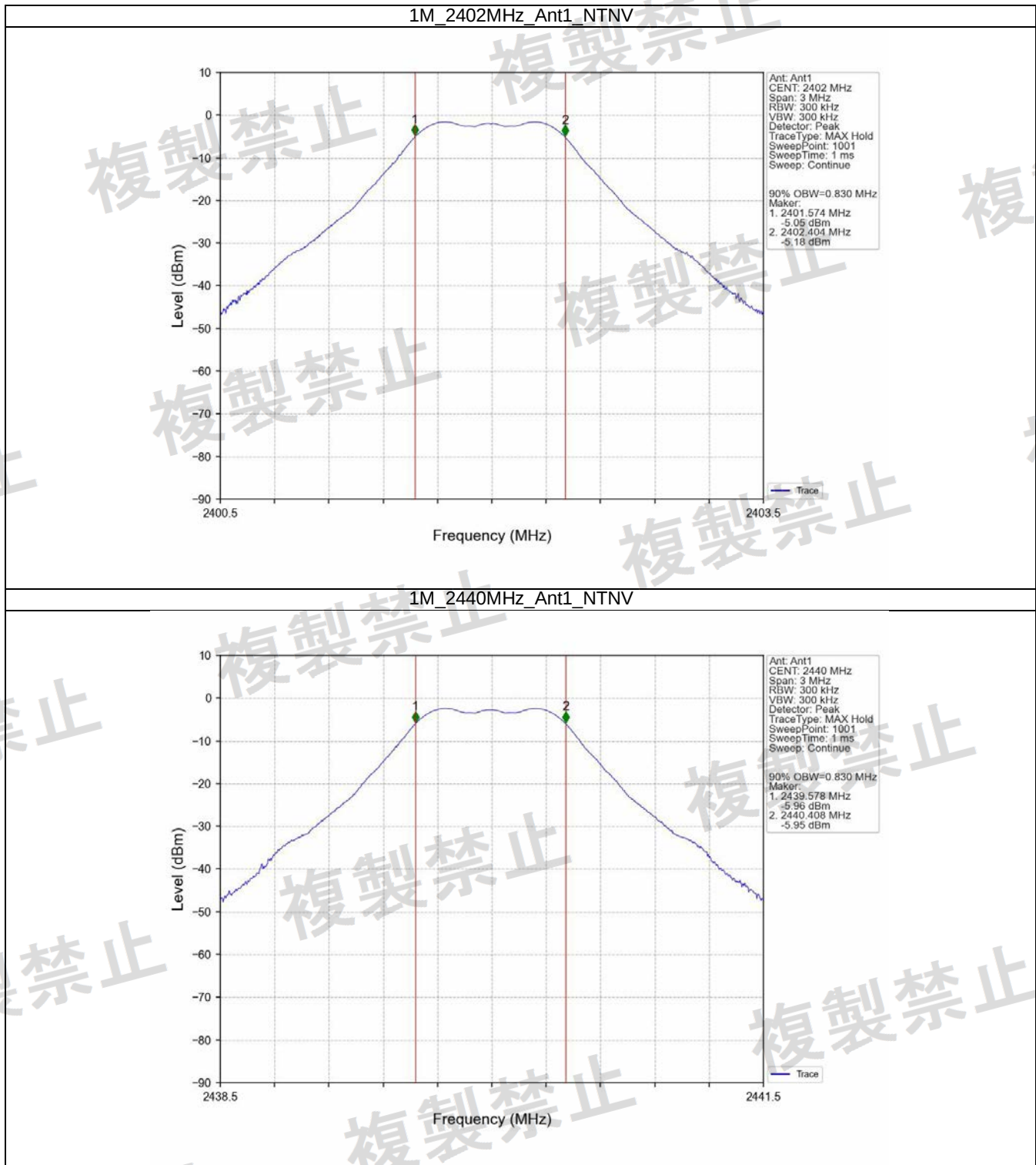
##### 3.1.1 SPBW

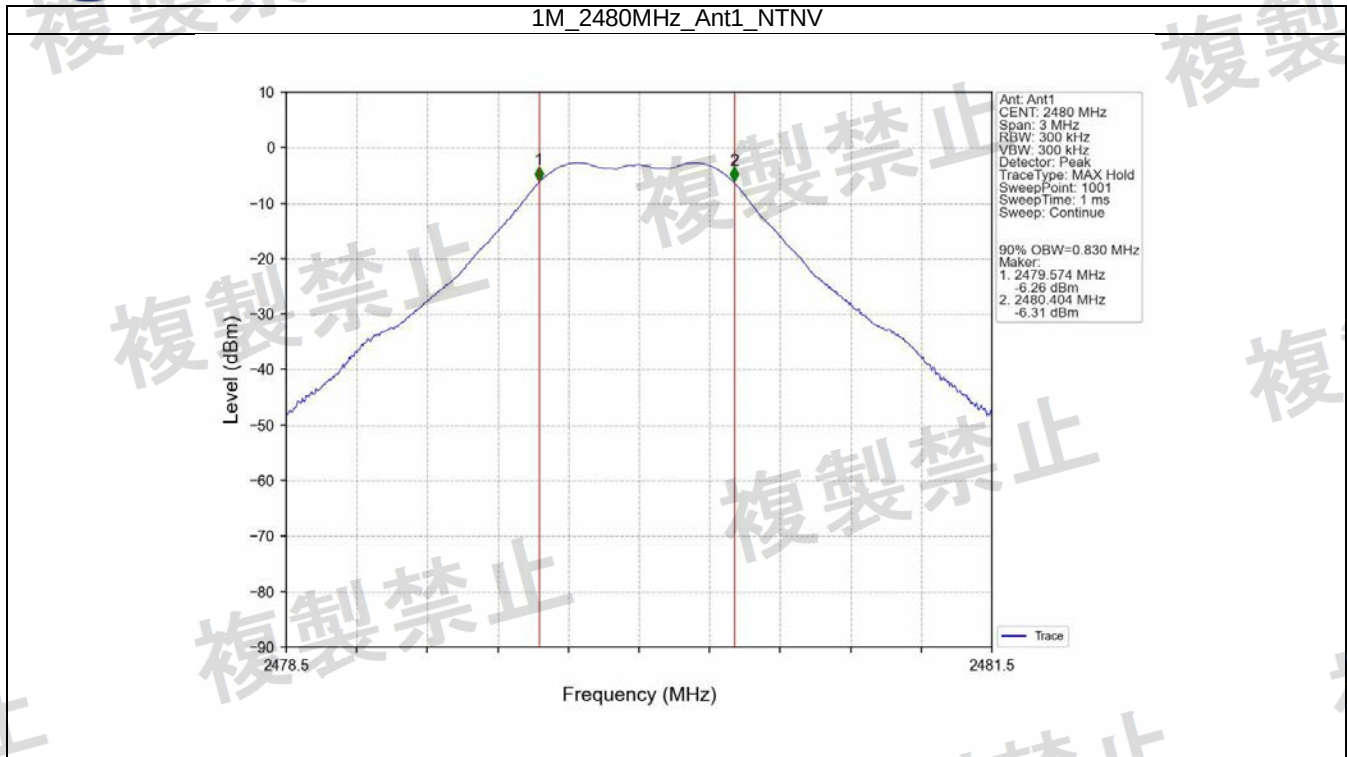
| ENV  | Mode | TX<br>Type | Frequency<br>(MHz) | Spread Bandwidth (MHz) |            | Verdict |
|------|------|------------|--------------------|------------------------|------------|---------|
|      |      |            |                    | ANT1                   | Limit      |         |
| NTNV | 1M   | SISO       | 2402               | 0.830                  | $\geq 0.5$ | Pass    |
|      |      |            | 2440               | 0.830                  | $\geq 0.5$ | Pass    |
|      |      |            | 2480               | 0.830                  | $\geq 0.5$ | Pass    |



## 3.2 Test Graph

### 3.2.1 SPBW







## 4. Antenna Power

### 4.1 Test Result

#### 4.1.1 Power

| ENV  | Mode | TX Type | Frequency (MHz) | ANT | Antenna Power (mW) |         | Nominal Power (mW) | Tolerance (%) |       | Verdict |
|------|------|---------|-----------------|-----|--------------------|---------|--------------------|---------------|-------|---------|
|      |      |         |                 |     | Measured           | Limit   |                    | Measured      | Limit |         |
| NTNV | 1M   | SISO    | 2402            | 1   | 0.640              | <=10.00 | 0.65               | -1.54         | 20    | Pass    |
|      |      |         | 2440            | 1   | 0.523              | <=10.00 | 0.65               | -19.54        | 20    | Pass    |
|      |      |         | 2480            | 1   | 0.479              | <=10.00 | 0.65               | -26.31        | 20    | Pass    |

#### 4.1.2 EIRP

| ENV  | Mode | TX Type | Frequency (MHz) | ANT | Antenna Power (dBm) | EIRP (dBm) |         | Verdict |
|------|------|---------|-----------------|-----|---------------------|------------|---------|---------|
|      |      |         |                 |     |                     | Result     | Limit   |         |
| NTNV | 1M   | SISO    | 2402            | 1   | -1.94               | -1.94      | <=12.14 | Pass    |
|      |      |         | 2440            | 1   | -2.82               | -2.82      | <=12.14 | Pass    |
|      |      |         | 2480            | 1   | -3.20               | -3.20      | <=12.14 | Pass    |

Antenna Gain=0 dBi

Note:EIRP (dBm) =Antenna Power (dBm) +Gain (dBi)



## 5. Spurious Emission Intensity

### 5.1 Test Result

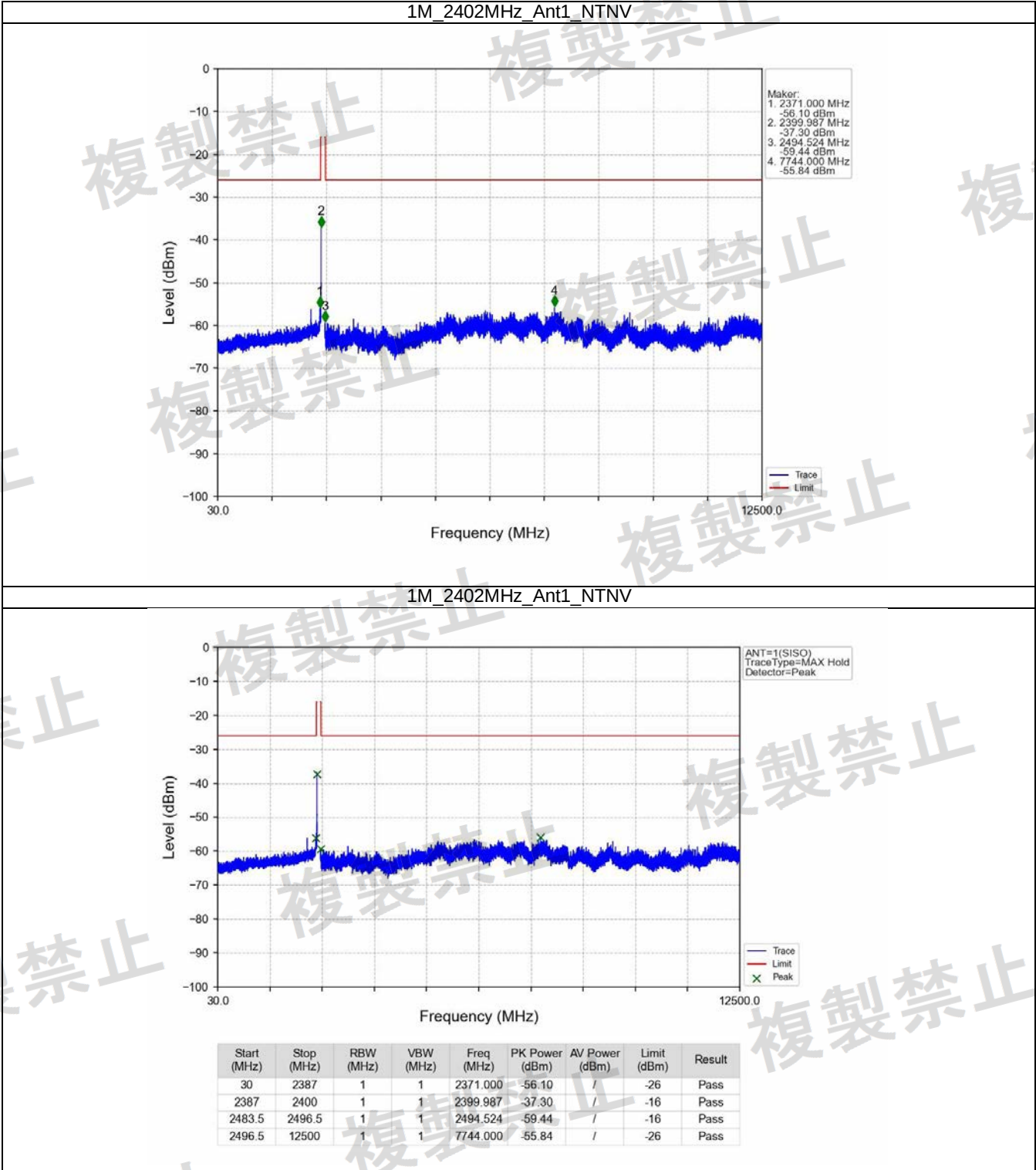
#### 5.1.1 TxSe\_NTNV

| NTNV |         |             |     |             |            |             |                     |                    |                     |                    |                 |         |
|------|---------|-------------|-----|-------------|------------|-------------|---------------------|--------------------|---------------------|--------------------|-----------------|---------|
| Mode | TX Type | Freq. (MHz) | ANT | Freq. Range |            | Marker      |                     |                    |                     |                    | Limit (uW /MHz) | Verdict |
|      |         |             |     | Start (MHz) | Stop (MHz) | Freq. (MHz) | PK Power (dBm /MHz) | PK Power (uW /MHz) | AV Power (dBm /MHz) | AV Power (uW /MHz) |                 |         |
| 1M   | SISO    | 2402        | 1   | 30          | 2387       | 2371        | -56.10              | 0.002              | /                   | /                  | 2.5             | Pass    |
|      |         |             |     | 2387        | 2400       | 2399.987    | -37.30              | 0.186              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2483.5      | 2496.5     | 2494.524    | -59.44              | 0.001              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2496.5      | 12500      | 7744        | -55.84              | 0.003              | /                   | /                  | 2.5             | Pass    |
|      |         | 2440        | 1   | 30          | 2387       | 2207.5      | -58.18              | 0.002              | /                   | /                  | 2.5             | Pass    |
|      |         |             |     | 2387        | 2400       | 2391.563    | -58.41              | 0.001              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2483.5      | 2496.5     | 2484.878    | -58.75              | 0.001              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2496.5      | 12500      | 7208.5      | -55.15              | 0.003              | /                   | /                  | 2.5             | Pass    |
|      |         | 2480        | 1   | 30          | 2387       | 2248.5      | -57.74              | 0.002              | /                   | /                  | 2.5             | Pass    |
|      |         |             |     | 2387        | 2400       | 2398.492    | -63.52              | 0.000              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2483.5      | 2496.5     | 2483.63     | -52.57              | 0.006              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2496.5      | 12500      | 7188.5      | -61.23              | 0.001              | /                   | /                  | 2.5             | Pass    |



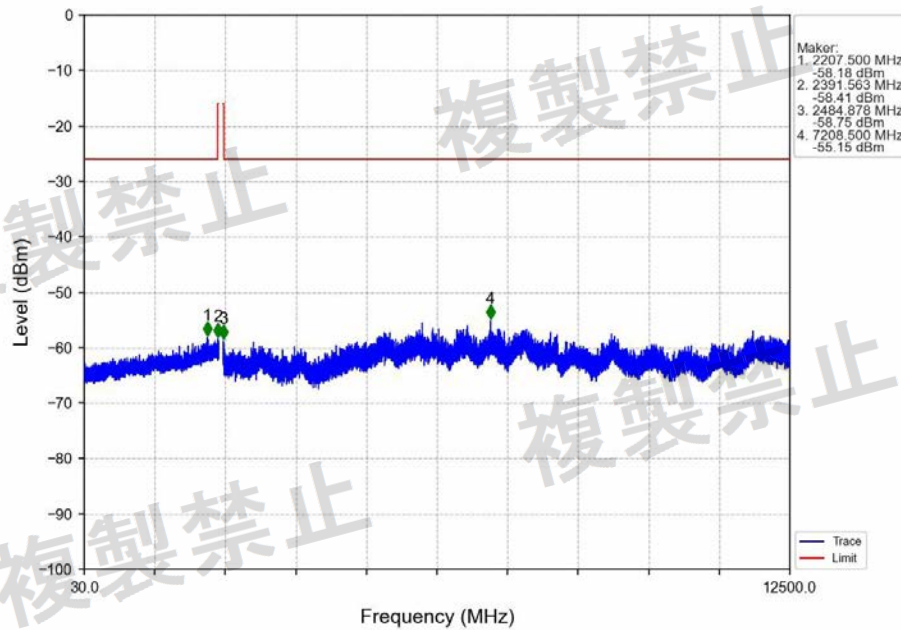
## 5.2 Test Graph

### 5.2.1 TxSe\_NTNV

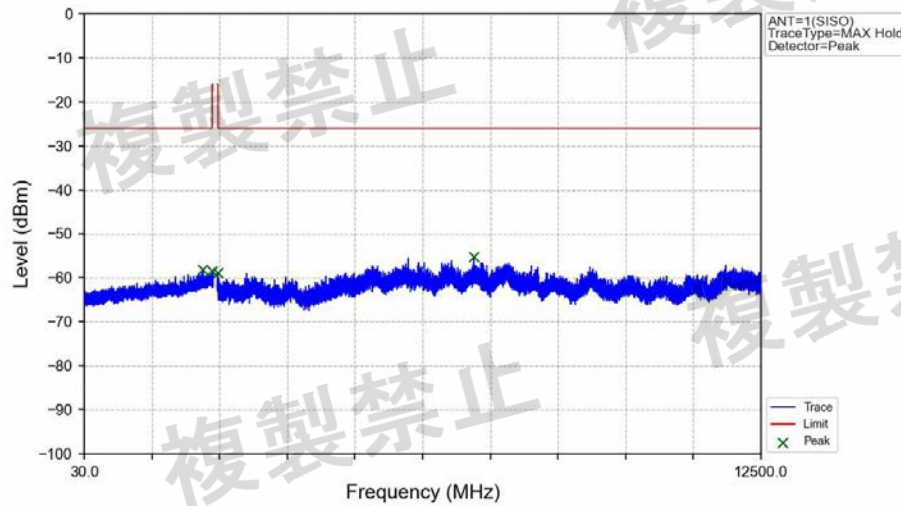




1M\_2440MHz\_Ant1\_NTNV



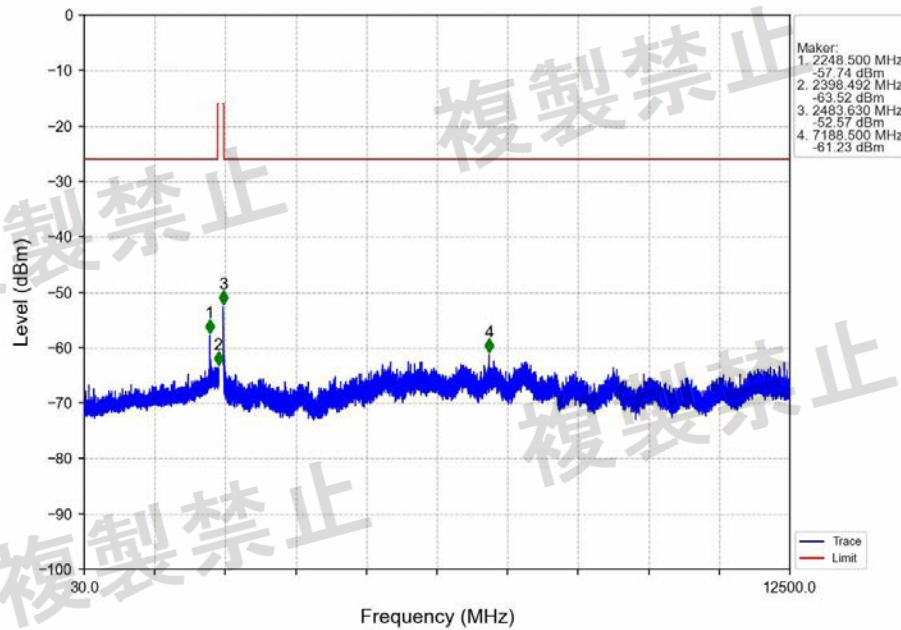
1M\_2440MHz\_Ant1\_NTNV



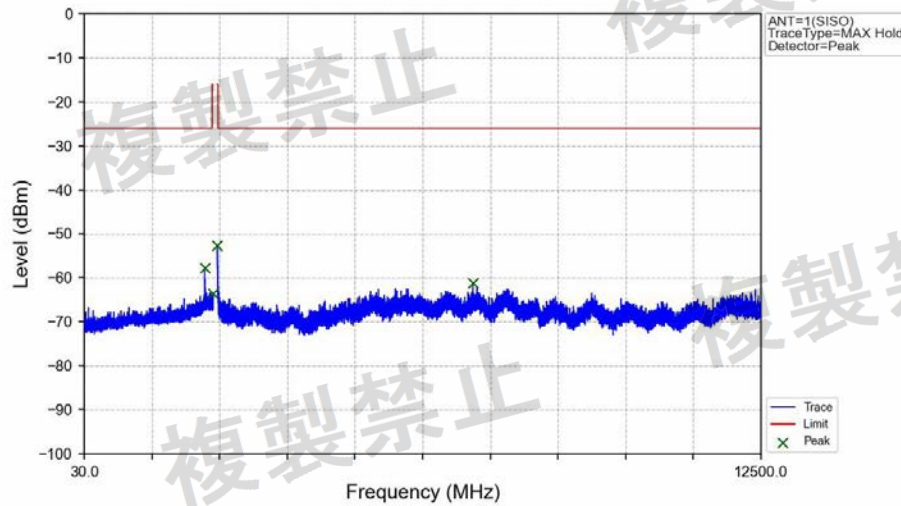
| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 2387       | 1         | 1         | 2207.500   | -58.18         | /              | -26         | Pass   |
| 2387        | 2400       | 1         | 1         | 2391.563   | -58.41         | /              | -16         | Pass   |
| 2483.5      | 2496.5     | 1         | 1         | 2484.878   | -58.75         | /              | -16         | Pass   |
| 2496.5      | 12500      | 1         | 1         | 7208.500   | -55.15         | /              | -26         | Pass   |



1M\_2480MHz\_Ant1\_NTNV



1M\_2480MHz\_Ant1\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 2387       | 1         | 1         | 2248.500   | -57.74         | /              | -26         | Pass   |
| 2387        | 2400       | 1         | 1         | 2398.492   | -63.52         | /              | -16         | Pass   |
| 2483.5      | 2496.5     | 1         | 1         | 2483.630   | -52.57         | /              | -16         | Pass   |
| 2496.5      | 12500      | 1         | 1         | 7188.500   | -61.23         | /              | -26         | Pass   |



## 6. Secondary Radiated Emission

### 6.1 Test Result

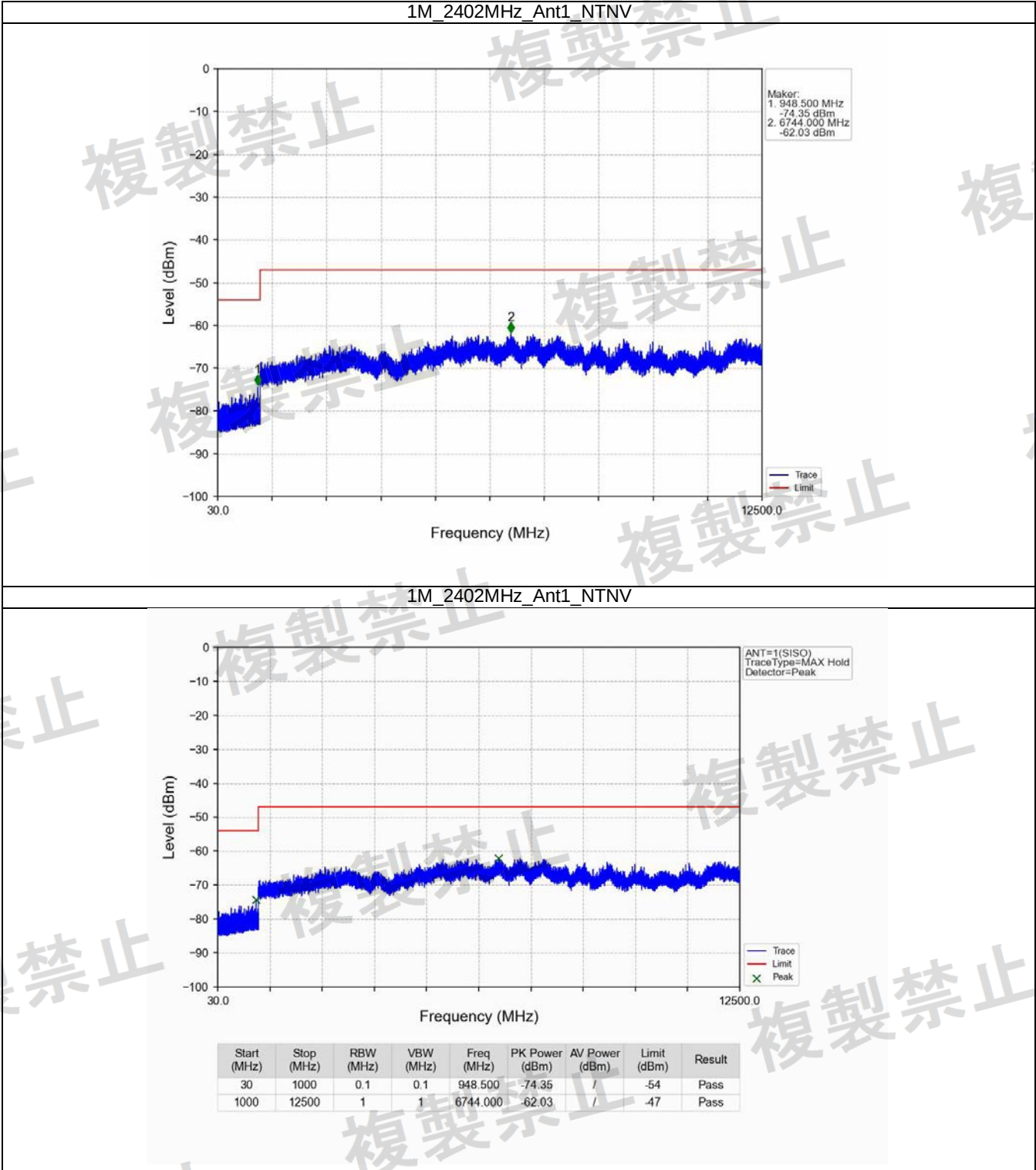
#### 6.1.1 RxSe\_NTNV

| NTNV |         |             |     |             |            |             |                |               |                |               |            |         |
|------|---------|-------------|-----|-------------|------------|-------------|----------------|---------------|----------------|---------------|------------|---------|
| Mode | TX Type | Freq. (MHz) | ANT | Freq. Range |            | Marker      |                |               |                |               | Limit (nW) | Verdict |
|      |         |             |     | Start (MHz) | Stop (MHz) | Freq. (MHz) | PK Power (dBm) | PK Power (nW) | AV Power (dBm) | AV Power (nW) |            |         |
| 1M   | SISO    | 2402        | 1   | 30          | 1000       | 948.5       | -74.35         | 0.037         | /              | /             | 4          | Pass    |
|      |         |             |     | 1000        | 12500      | 6744        | -62.03         | 0.627         | /              | /             | 20         | Pass    |
|      |         | 2440        | 1   | 30          | 1000       | 948.35      | -74.15         | 0.038         | /              | /             | 4          | Pass    |
|      |         |             |     | 1000        | 12500      | 7771.5      | -61.03         | 0.789         | /              | /             | 20         | Pass    |
|      |         | 2480        | 1   | 30          | 1000       | 948.5       | -75.12         | 0.031         | /              | /             | 4          | Pass    |
|      |         |             |     | 1000        | 12500      | 2402        | -60.34         | 0.925         | /              | /             | 20         | Pass    |



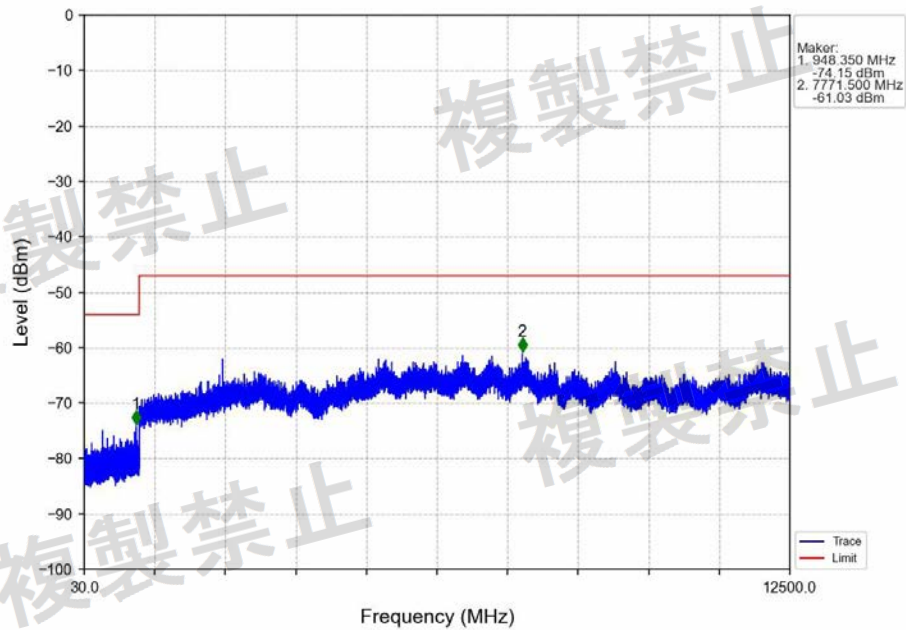
## 6.2 Test Graph

### 6.2.1 RxSe\_NTNV

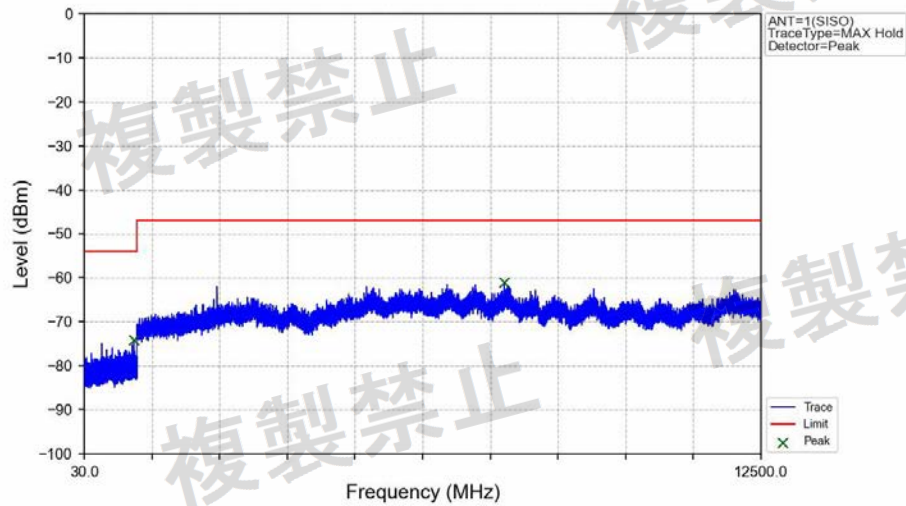




1M\_2440MHz\_Ant1\_NTNV



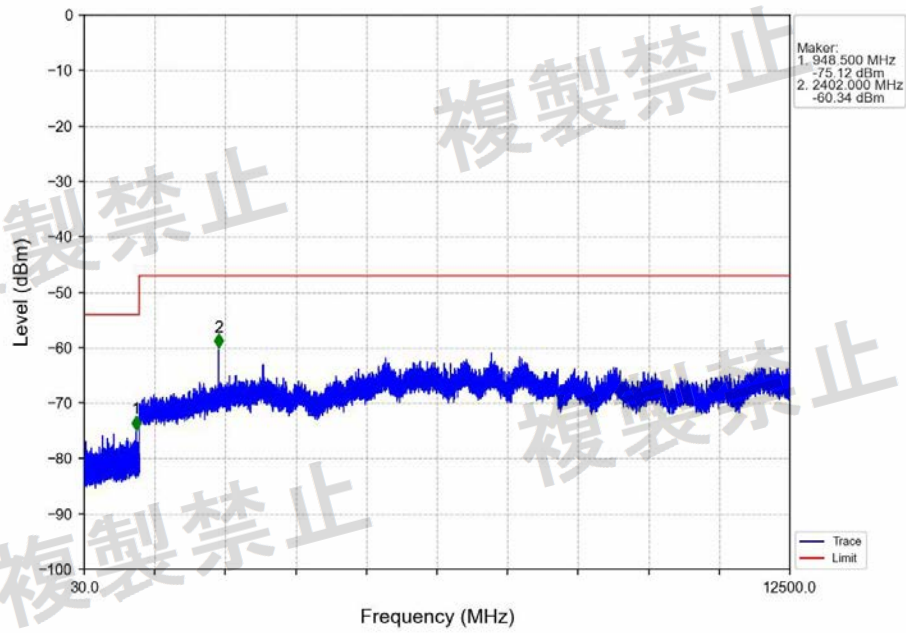
1M\_2440MHz\_Ant1\_NTNV



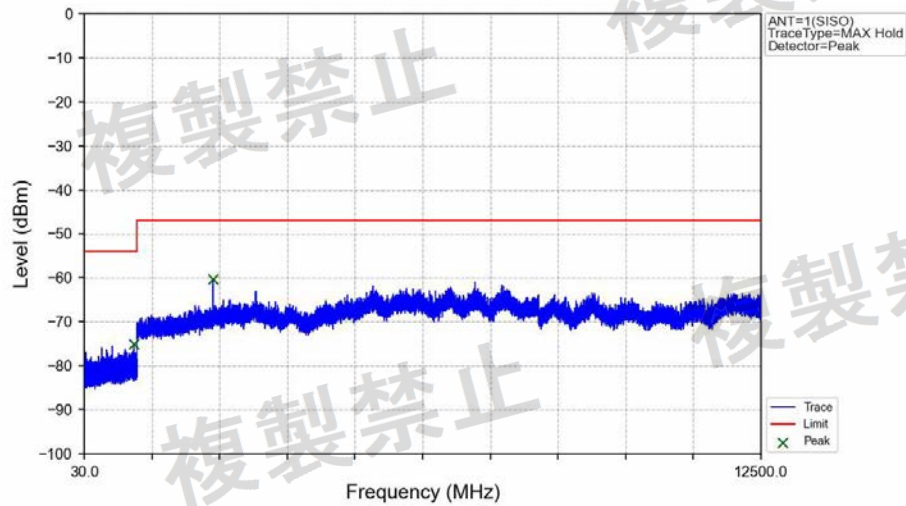
| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 1000       | 0.1       | 0.1       | 948.350    | -74.15         | /              | -54         | Pass   |
| 1000        | 12500      | 1         | 1         | 7771.500   | -61.03         | /              | -47         | Pass   |



1M\_2480MHz\_Ant1\_NTNV



1M\_2480MHz\_Ant1\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 1000       | 0.1       | 0.1       | 948.500    | -75.12         | /              | -54         | Pass   |
| 1000        | 12500      | 1         | 1         | 2402.000   | -60.34         | /              | -47         | Pass   |