

# TEST REPORT

**Application No.:** SZCR2512005350AT  
**Applicant:** Sonova Consumer Hearing GmbH  
**Address of Applicant:** Im Heidkampe 9, 30659 Hannover, Germany  
**Manufacturer:** Sonova Consumer Hearing GmbH  
**Address of Manufacturer:** Im Heidkampe 9, 30659 Hannover, Germany  
**Equipment Under Test (EUT):**  
**EUT Name:** Momentum 5  
**Model No.:** M5AEBT  
**Trade Mark:** SENNHEISER  
**Standard(s) :** MIC Item 19 of Article 2 Paragraph 1  
**Date of Receipt:** 2025-12-03  
**Date of Test:** 2025-12-16  
**Date of Issue:** 2025-12-26

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.

Kenf. Xu

Kenf Xu  
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch EMC Laboratory

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SZEMC-TRF-01 Rev. A/2

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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2025-12-26 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |                              |  |
|--------------------------|--|------------------------------|--|
| Authorized for issue by: |  |                              |  |
|                          |  | Darren Yuan                  |  |
|                          |  | Darren Yuan/Project Engineer |  |
|                          |  | Eric Fu                      |  |
|                          |  | Eric Fu/Reviewer             |  |



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## 2 Test Summary

| Radio Spectrum Technical Requirement |                                      |                                 |                                      |        |
|--------------------------------------|--------------------------------------|---------------------------------|--------------------------------------|--------|
| Item                                 | Standard                             | Method                          | Requirement                          | Result |
| Antenna Requirement                  | MIC Item 19 of Article 2 Paragraph 1 | N/A                             | MIC Item 19 of Article 2 Paragraph 1 | Pass   |
| Interference prevention capability   |                                      | MIC Notice No.88 Appendix No.43 | MIC Item 19 of Article 2 Paragraph 1 | Pass   |
| RF accessibility                     |                                      | N/A                             | MIC Item 19 of Article 2 Paragraph 1 | Pass   |

| Radio Spectrum Matter Part            |                                      |                                 |                                      |        |
|---------------------------------------|--------------------------------------|---------------------------------|--------------------------------------|--------|
| Item                                  | Standard                             | Method                          | Requirement                          | Result |
| Frequency Error                       | MIC Item 19 of Article 2 Paragraph 1 | MIC Notice No.88 Appendix No.43 | MIC Item 19 of Article 2 Paragraph 1 | Pass   |
| Occupied Bandwidth(99%)               |                                      | MIC Notice No.88 Appendix No.43 | MIC Item 19 of Article 2 Paragraph 1 | Pass   |
| Antenna Power                         |                                      | MIC Notice No.88 Appendix No.43 | MIC Item 19 of Article 2 Paragraph 1 | Pass   |
| Spurious emission Intensity           |                                      | MIC Notice No.88 Appendix No.43 | MIC Item 19 of Article 2 Paragraph 1 | Pass   |
| Limit of secondary radiated emissions |                                      | MIC Notice No.88 Appendix No.43 | MIC Item 19 of Article 2 Paragraph 1 | Pass   |

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## 4 General Information

### 4.1 Details of E.U.T.

| Item No. | Type of Information              | Details / Description / specification                                       |
|----------|----------------------------------|-----------------------------------------------------------------------------|
| 1        | Test Item Description            | Wireless Headphones                                                         |
| 2        | Product Name                     | Momentum 5                                                                  |
| 3        | Model No.                        | M5AEBT                                                                      |
| 4        | Brand Name                       | SENNHEISER                                                                  |
| 5        | Serial Number / Status of EUT    | Engineering sample                                                          |
| 6        | Power Ratings                    | 3.7Vdc, 700mAh (from battery)                                               |
| 7        | Power Supply (Nominal & Testing) | 5Vdc 800mA (from USB-C Port)                                                |
| 8        | Nominal Testing Voltage (Vnom)   | 3.7Vdc                                                                      |
| 9        | Operating Temperature range      | 0° C - +40° C                                                               |
| 10       | Modulation Type                  | BDR & EDR: GFSK, $\pi/4$ DQPSK, 8DPSK<br>BLE 1M/2M: GFSK                    |
| 11       | Transmission Technology          | BDR & EDR: FHSS<br>BLE 1M/2M: DSSS                                          |
| 12       | Technology                       | Bluetooth                                                                   |
| 13       | Operating Frequency              | BDR & EDR: 2402 - 2480MHz<br>BLE: 2402 - 2480MHz                            |
| 14       | No. of channels                  | BDR & EDR: 79<br>BLE: 40                                                    |
| 15       | Channel Spacing                  | BDR & EDR: 1MHz<br>BLE: 2MHz                                                |
| 16       | Channel Bandwidth                | BDR & EDR: 79MHz<br>BLE: 80MHz                                              |
| 17       | Data Transfer Rate               | BDR: 1Mbps, EDR: 2Mbps/3Mbps<br>BLE 4.0: 1Mbps, BLE 5.4: 2Mbps              |
| 18       | Antenna Type                     | FPC                                                                         |
| 19       | Antenna Gain                     | 1.64dBi max                                                                 |
| 20       | Rated RF output power            | BDR/EDR<br>Normal mode: 0.10 mW/MHz<br>AFH mode: 0.35 mW/MHz<br>BLE: 6.0 mW |
| 21       | HW Version                       | 0x01                                                                        |
| 22       | SW Version                       | 6.6.1                                                                       |
| 23       | Cable supplied / Device ports    | 1.2m shielded USB cable without core                                        |

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



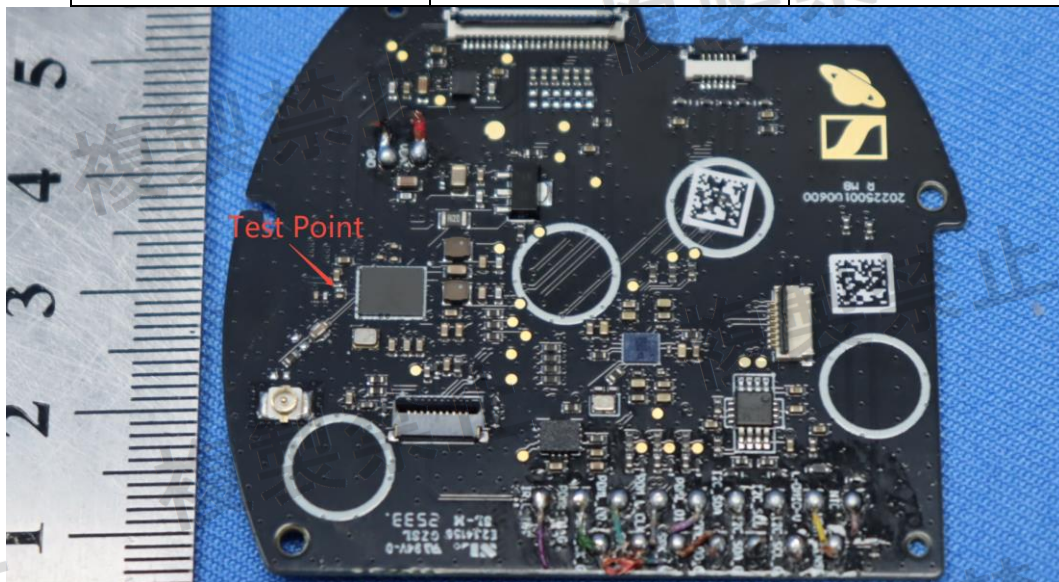
## 4.2 Test Conditions

### Power Supply

The RF unit is supplied DC 1.8V. The fluctuation of input voltage to the circuit of RF unit of test equipment is under  $\pm 1\%$ , when input voltage from DC 3.7V to the test equipment is fluctuated by  $\pm 10\%$ . So, all measurement has been conducted by only rated voltage.

The measurement result of the voltage fluctuation at RF circuit when DC 3.7V  $\pm 10\%$ .

| DC Input | input voltage to the circuit | Voltage Fluctuation (%) |
|----------|------------------------------|-------------------------|
| 3.33V    | 1.8V                         | 0                       |
| 3.70V    | 1.8V                         | 0                       |
| 4.07V    | 1.8V                         | 0                       |



**Temperature:** 5-35 °C  
**Humidity:** 45-85 % RH  
**Atmospheric Pressure:** 1000 mbar

### Note:

VN: Normal Voltage  
TN: Normal Temperature  
TL: Low Extreme Test Temperature  
TH: High Extreme Test Temperature

### Test

**Frequencies:** If the EUT can be set to 3 or more different (carrier) frequencies in 1 allocated band, testing shall be performed using the Lowest, Middle and the Highest frequency (L, M and H). If there are 2 or fewer frequencies, testing shall be performed with the available frequencies.

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#### 4.3 Description of Support Units

| Description                                     | Manufacturer | Model No. | Serial No. |
|-------------------------------------------------|--------------|-----------|------------|
| --                                              | --           | --        | --         |
| The EUT has been tested as an independent unit. |              |           |            |

#### 4.4 Measurement Uncertainty

| Test Item                                                                                                                                                                                                                                                                                                                                       | Measurement Uncertainty |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Frequency Error                                                                                                                                                                                                                                                                                                                                 | $\pm 7.25\text{E-}8$    |
| Occupied Bandwidth(99%)                                                                                                                                                                                                                                                                                                                         | $\pm 3\%$               |
| Antenna Power                                                                                                                                                                                                                                                                                                                                   | $\pm 0.75\text{dB}$     |
| Spurious emission Intensity                                                                                                                                                                                                                                                                                                                     | $\pm 0.75\text{dB}$     |
| Limit of secondary radiated emissions                                                                                                                                                                                                                                                                                                           | $\pm 0.75\text{dB}$     |
| Remark:<br>The $U_{\text{lab}}$ (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results<br>– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;<br>– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. |                         |

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#### 4.5 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053

Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Conditions

None



## 5 Equipment List

| Equipment list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |               |              |           |              |                  |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------|--------------|-----------|--------------|------------------|----------------|
| Equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Manufacturer                              | Model No      | Serial No    | Cal Date  | Cal Due Date | Calibration body | Classification |
| MXA Signal Analyzer(10Hz-26.5GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | KEYSIGHT                                  | N9020A        | MY53300619   | 2025-3-4  | 2026-3-3     | SGS              | (c)            |
| Signal Generator (9kHz-40GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | KEYSIGHT                                  | N5173B        | MY53270267   | 2025-9-13 | 2026-9-12    | CEPREI           | (c)            |
| Multimeter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FLUKE                                     | Fluke 87      | 27900002     | 2025-2-26 | 2026-2-25    | SGS              | (c)            |
| Universal Radio Communication Tester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Rohde & Schwarz                           | CMW 500       | 152272       | 2025-3-3  | 2026-3-2     | SGS              | (c)            |
| Humidity/ Temperature Indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Deli                                      | 8838          | 8838         | 2025-7-23 | 2026-7-22    | SGS              | (c)            |
| Barometer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Changchun Meteorological Industry Factory | DYM3          | 0026         | 2025-3-3  | 2026-3-2     | SGS              | (c)            |
| DC Power Supply                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Chroma                                    | 62012P-80-60  | 62012PD01784 | 2025-7-24 | 2026-7-23    | SGS              | (c)            |
| Measurement Software                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TST PASS                                  | TST PASS V2.0 | N/A          | N/A       | N/A          | N/A              | N/A            |
| Remark:<br>(a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.<br>(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).<br>(c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).<br>(d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c).<br>From JRL Article 24-2, paragraph 4, Item 2 |                                           |               |              |           |              |                  |                |

## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

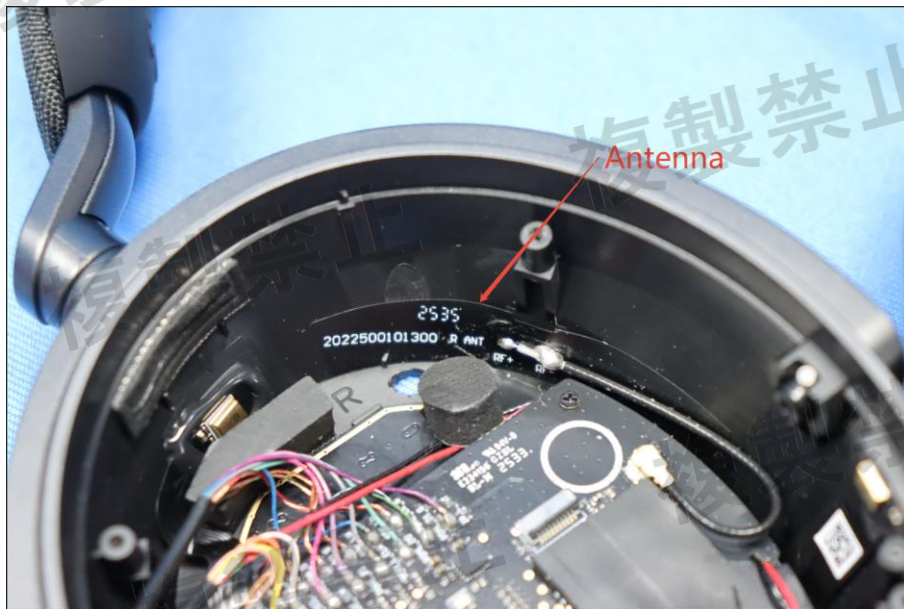
#### 6.1.2 Conclusion

Standard requirement:

Applicable for equipment with an antenna terminal, including testing terminals. If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.

EUT Details:

The antenna is integrated on the enclosure and no consideration of replacement. The best case gain of the antenna is 1.64dBi



Result:

An antenna connector is available, all relevant tests will be carried out conducted.

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## 6.2 Interference prevention capability

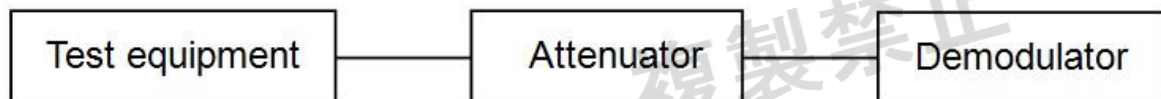
### 6.2.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

Limit:

The function specified in Article 9-4 of the Ordinance Regulating Radio Equipment

### 6.2.2 Test Setup Diagram



### 6.2.3 Conclusion

Standard Requirement:

- 1) Measurement system diagram as shown above and test equipment keep transmitting identification code.
- 2) Condition of measuring instrument
  - (1) Demodulator must be able to demodulate the transmitting signal emitted by test equipment and to indicate the identification code.
- 3) Condition of test equipment the mode of normal use.
- 4) Measuring operation procedure
  - (1) When test equipment has the function to transmit identification code automatically:
    - A) Transmit the predetermined identification code from test equipment.
    - B) Confirm the transmitted identification code by demodulator.

EUT Details:

80:C3:BA:87:E5:A7

The unit does meet the requirements (Good).



### 6.3 RF accessibility

#### 6.3.1 Test Requirement:

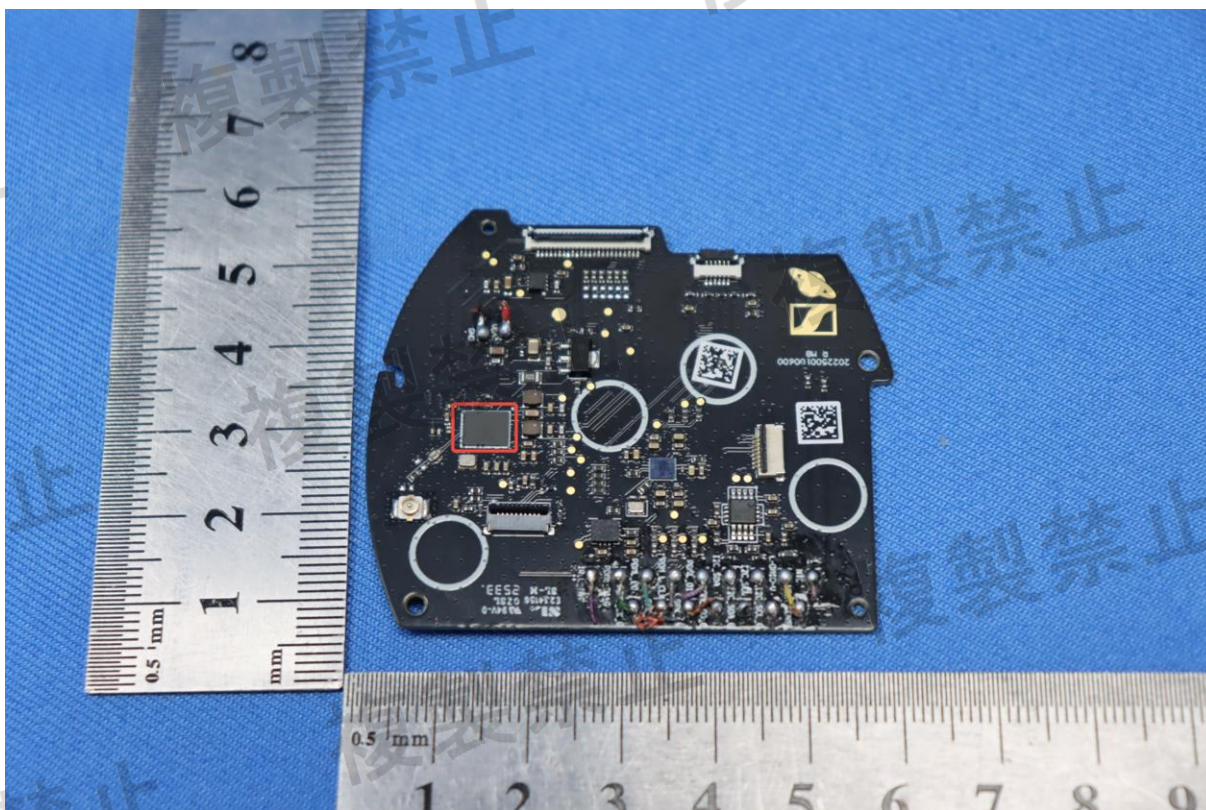
MIC Item 19 of Article 2 Paragraph 1

#### 6.3.2 Conclusion

Standard Requirement:

The EUT shall be constructed in such a way that sensitive RF parts, (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.

EUT Details:



RF and Modulation part are mounted on PCB with surface mount technology and there is no any adjustable part on PCB or adjustable parts are not exposed.



## 7 Radio Spectrum Matter Test Results

### 7.1 Frequency Error

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Test Engineer: Mingli Hu

Limit:

Tolerance of frequency:  $\pm 50\text{E-6}$

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C

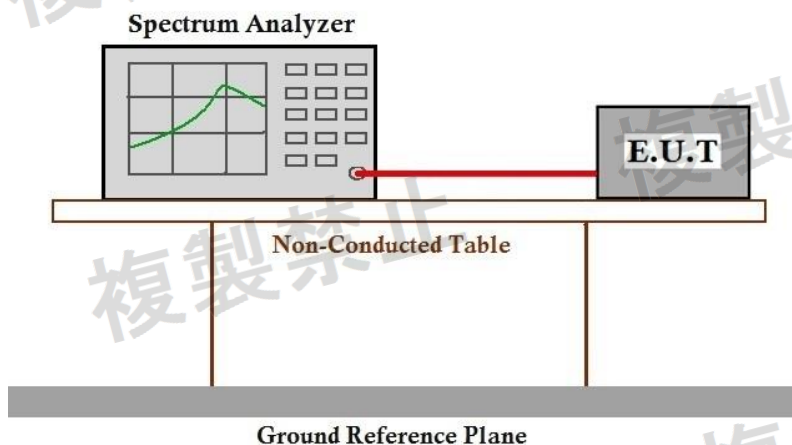
Humidity: 43.2 % RH

Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                          |
|-----------------------|-----------|--------------------------------------|
| Final test            | 02        | TX_Keep the EUT in transmitting mode |

#### 7.1.3 Test Setup Diagram



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**7.1.4 Measurement Procedure and Data**

## 1. Test Conditions:

Spectrum Analyzer is used for measurement.

## 2. EUT conditions:

Modulation/Spread/Hopping OFF, CW Tx

## 3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 1MHz

RBW 10 kHz (Modulation OFF),

VBW 10 kHz (Modulation OFF),

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

Alternative method:

Frequency: Test Frequency

Span 2 times channel bandwidth

RBW 100 kHz (Modulation ON),

VBW 100 kHz (Modulation ON),

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

Please Refer to Appendix for Details



## 7.2 Occupied Bandwidth(99%)

Test Requirement MIC Item 19 of Article 2 Paragraph 1  
Test Method: MIC Notice No.88 Appendix No.43  
Test Engineer: Mingli Hu

Limit:

FH: 83.5MHz or less

OFDM: 40MHz or less

Others: 26MHz or less

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C

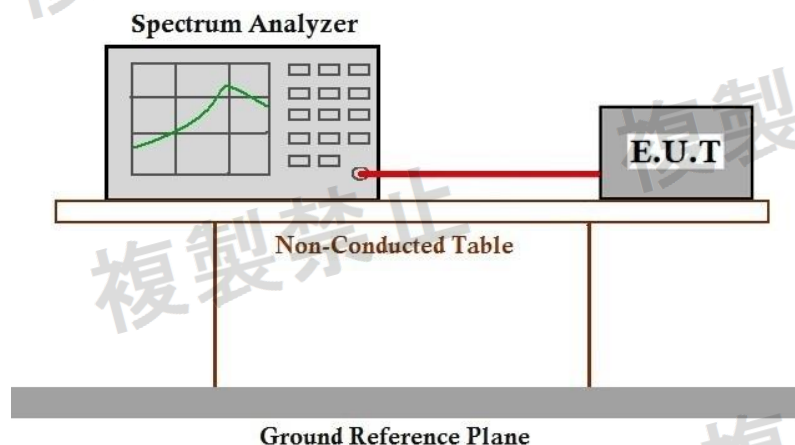
Humidity: 43.2 % RH

Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                          |
|-----------------------|-----------|--------------------------------------|
| Final test            | 02        | TX_Keep the EUT in transmitting mode |

### 7.2.3 Test Setup Diagram



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**7.2.4 Measurement Procedure and Data**

## 1. Test Conditions:

Spectrum Analyzer is used for measurement.

## 2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

## 3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 83.5 MHz (FHSS); 40/60 MHz (OFDM; DSSS); 2-5 times OBW (Others)

RBW 1 MHz (FHSS); 300kHz (OFDM; DSSS); 3% OBW (Others)

VBW 1 MHz (FHSS); 300kHz (OFDM; DSSS); 3 times RBW (Others)

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

OBW 99%

Please Refer to Appendix for Details



### 7.3 Antenna Power

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Test Engineer: Mingli Hu

Limit:

Designated value

(1) FH, FH+DS, FH+OFDM: 3mW/MHz

(used in the range of 2427 - 2470.75 MHz)

(2) OFDM, DS other than (1) 10mW/MHz

(3) Other than (1) & (2) 10mW

(4) OFDM OBW 26 - 40MHz: 5mW/MHz

Tolerance: +20%, -80%

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C

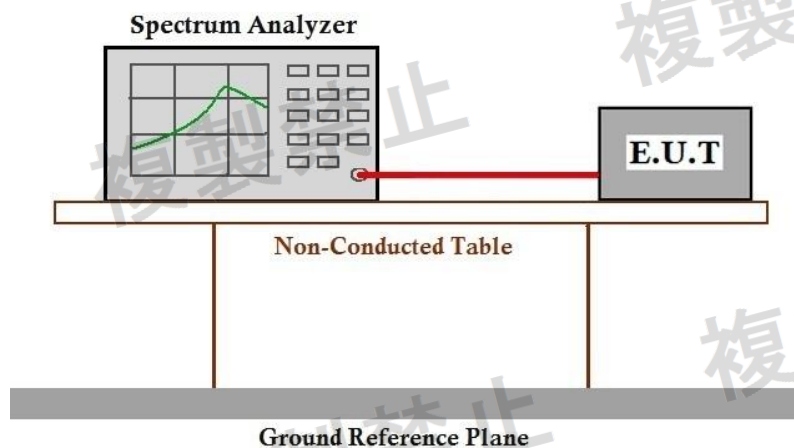
Humidity: 43.2 % RH

Atmospheric Pressure: 1020 mbar

#### 7.3.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                          |
|--------------------------|--------------|--------------------------------------|
| Final test               | 02           | TX_Keep the EUT in transmitting mode |

#### 7.3.3 Test Setup Diagram



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**7.3.4 Measurement Procedure and Data**

## 1. Test Conditions:

Spectrum Analyzer is used for measurement.

## 2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

## 3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 25 MHz(FHSS); 40/60 MHz (OFDM; DSSS); Enough to capture the emission (Others)

RBW 1 MHz (FHSS; OFDM; DSSS); More than OBW (Others)

VBW 1 MHz (FHSS; OFDM; DSSS); More than RBW (Others)

Sweep Time Auto

detector mode RMS

Indication mode Max hold

Please Refer to Appendix for Details



#### 7.4 Spurious emission Intensity

Test Requirement MIC Item 19 of Article 2 Paragraph 1  
Test Method: MIC Notice No.88 Appendix No.43  
Test Engineer: Mingli Hu

Limit:

- (1) Below 2387 MHz: 2.5  $\mu$  W/MHz
- (2) 2387 to 2400 MHz: 25  $\mu$  W/MHz
- (3) 2483.5 through 2496.5 MHz: 25  $\mu$  W/MHz
- (4) Over 2496.5 MHz: 2.5  $\mu$  W/MHz

##### 7.4.1 E.U.T. Operation

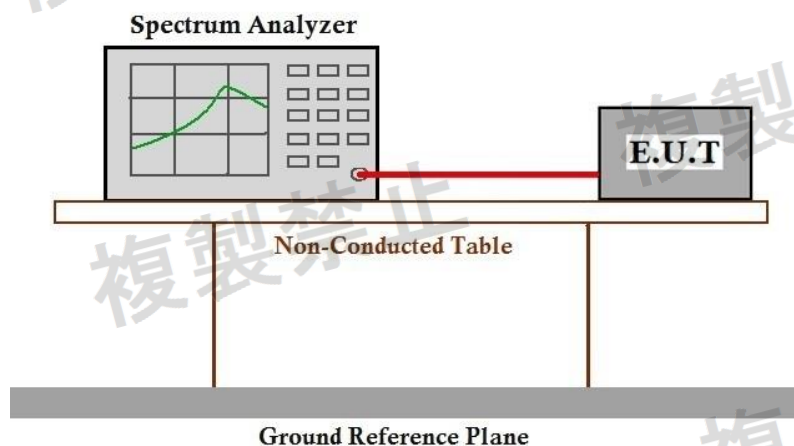
Operating Environment:

Temperature: 21.7 °C Humidity: 43.2 % RH Atmospheric Pressure: 1020 mbar

##### 7.4.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                          |
|--------------------------|--------------|--------------------------------------|
| Final test               | 02           | TX_Keep the EUT in transmitting mode |

##### 7.4.3 Test Setup Diagram



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**7.4.4 Measurement Procedure and Data**

## 1. Test Conditions:

Spectrum Analyzer is used for measurement.

## 2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

## 3. Spectrum Analyzer conditions:

## Step 1

All spurious are measured from 30 MHz to 13 GHz by peak mode.

## Step 2

IF the value measured by Step1 is 2 dB or less, measure in average mode.

Test setup for Step 1:

Frequency: 30 MHz - 2400 MHz , 2483.5 MHz -13 GHz

RBW 1 MHz

VBW 1 MHz

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

Test setup for Step 2:

Frequency: Spurious Frequency

RBW 1 MHz

VBW 1 MHz

Sweep Time Auto

detector mode Sample

Indication mode Max hold

Please Refer to Appendix for Details



## 7.5 Limit of secondary radiated emissions

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Test Engineer: Mingli Hu

Limit:

- (1) Below 1 GHz : 4 nW or less
- (2) 1 GHz and over : 20 nW or less

### 7.5.1 E.U.T. Operation

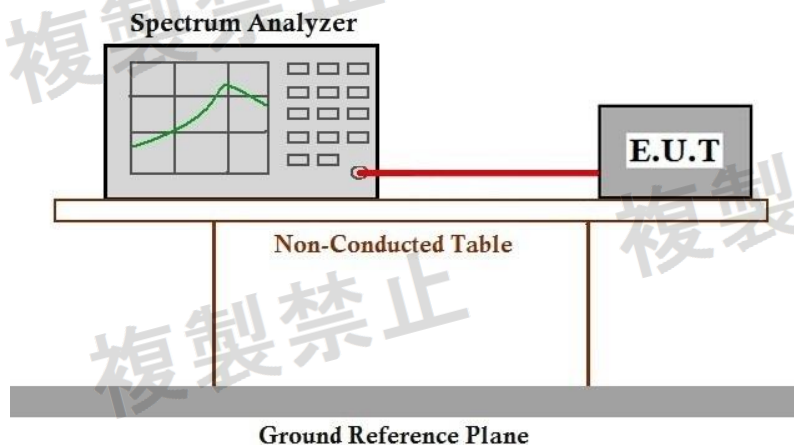
Operating Environment:

Temperature: 21.7 °C Humidity: 43.2 % RH Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                       |
|--------------------------|--------------|-----------------------------------|
| Final test               | 03           | RX_Keep the EUT in receiving mode |

### 7.5.3 Test Setup Diagram



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**7.5.4 Measurement Procedure and Data**

## 1. Test Conditions:

Spectrum Analyzer is used for measurement.

## 2. EUT conditions:

Modulation/Spread/Hopping ON

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

## 3. Spectrum Analyzer conditions:

## Step 1

All spurious are measured from 30 MHz to 13 GHz by peak mode.

## Step 2

IF the value measured by Step1 is 2 dB or less, measure in average mode.

Test setup for Step 1:

Frequency: 30 MHz - 2400 MHz, 2483.5 MHz -13 GHz

RBW 100 kHz (30 - 1GHz), 1 MHz (over 1GHz)

VBW 100 kHz (30 - 1GHz), 1 MHz (over 1GHz)

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

Test setup for Step 2:

Frequency: Spurious Frequency

Span 0 Hz

RBW 100 kHz (30 - 1GHz), 1 MHz (over 1GHz)

VBW 100 kHz (30 - 1GHz), 1 MHz (over 1GHz)

Sweep Time Auto

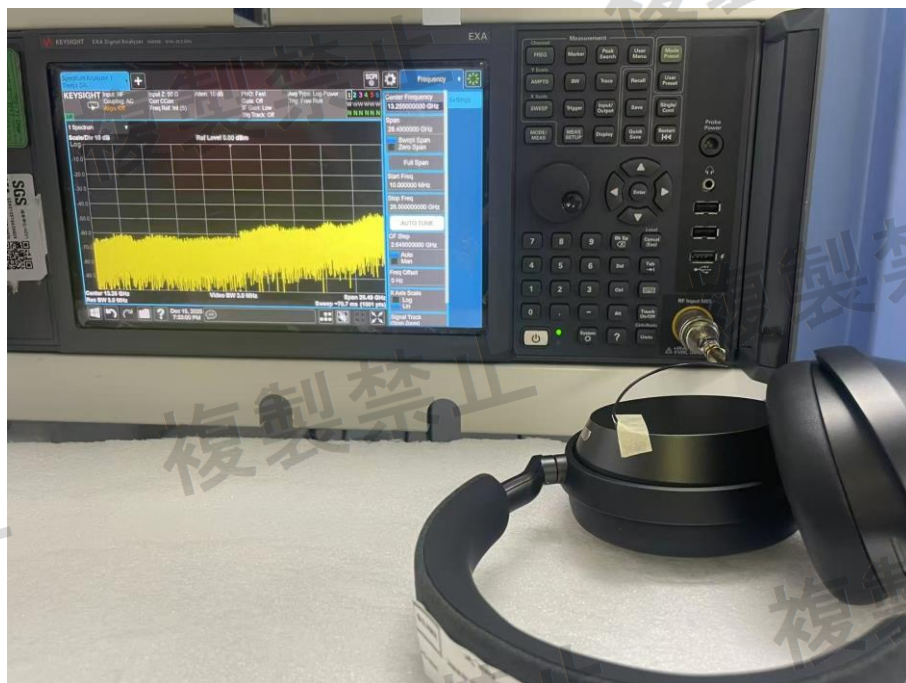
detector mode Sample

Indication mode Max hold

Please Refer to Appendix for Details



### 8 Test Setup Photo



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## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix \_Photographs of EUT Constructional Details for SZCR2512005350AT



## 10 Appendix

### 1. Frequency Error

#### 1.1 Test Result

##### 1.1.1 Ant1

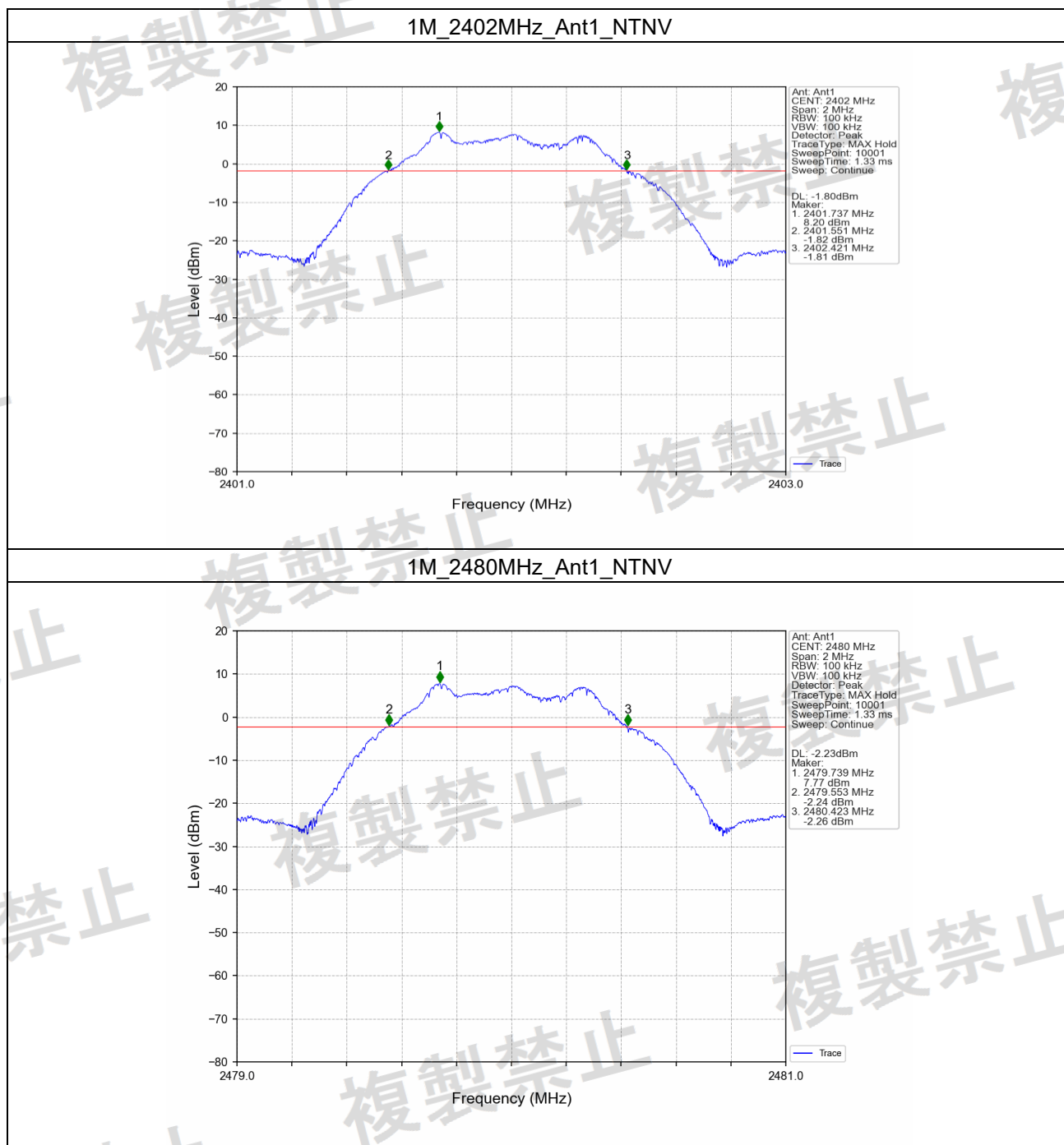
| Ant1 |      |         |                 |                          |                 |           |         |
|------|------|---------|-----------------|--------------------------|-----------------|-----------|---------|
| ENV  | Mode | TX Type | Frequency (MHz) | Measured Frequency (MHz) | Tolerance (ppm) |           | Verdict |
|      |      |         |                 |                          | Result          | Limit     |         |
| NTNV | 1M   | SISO    | 2402            | 2401.986                 | -5.95           | -50 to 50 | Pass    |
|      |      |         | 2480            | 2479.988                 | -4.72           | -50 to 50 | Pass    |
|      | 2M   | SISO    | 2402            | 2401.985                 | -6.33           | -50 to 50 | Pass    |
|      |      |         | 2480            | 2479.992                 | -3.15           | -50 to 50 | Pass    |

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## 1.2 Test Graph

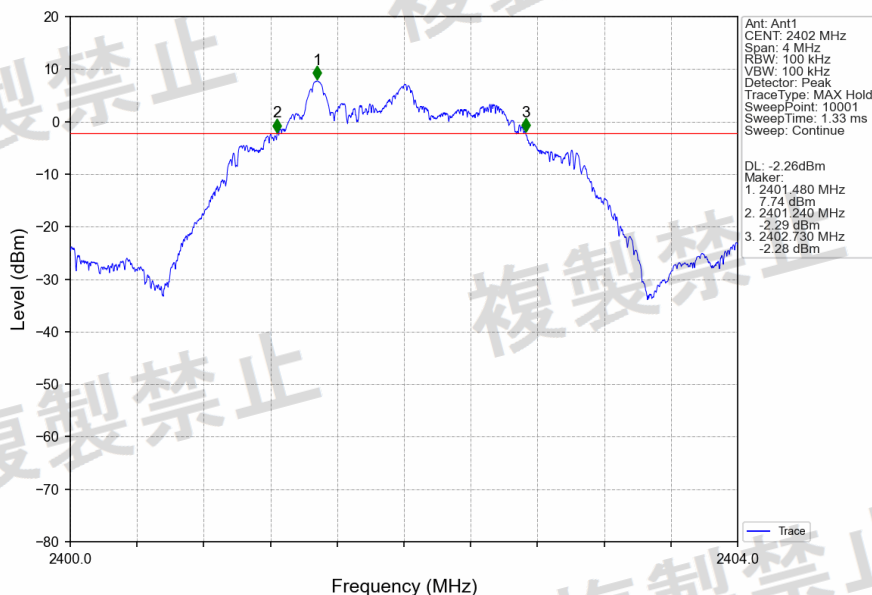
## 1.2.1 Ant1



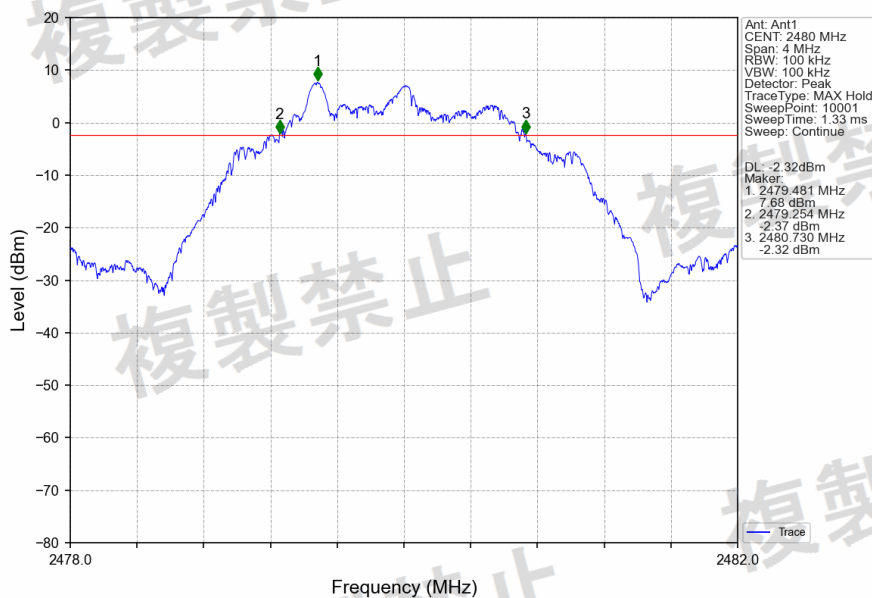
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2M\_2402MHz\_Ant1\_NTNV



2M\_2480MHz\_Ant1\_NTNV



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## 2. Occupied Bandwidth

## 2.1 Test Result

## 2.1.1 OBW

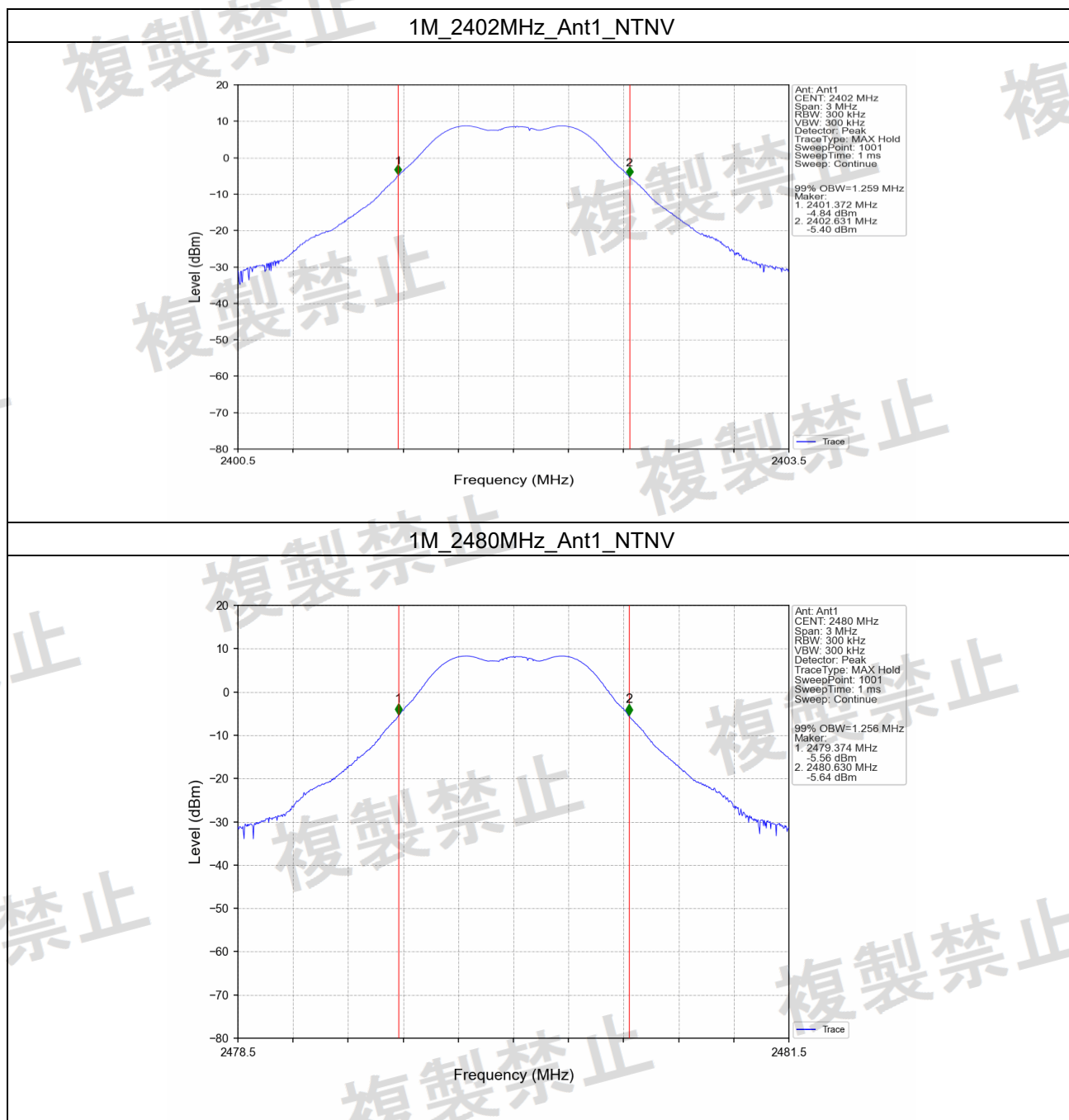
| ENV  | Mode | TX Type | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |           | Verdict |
|------|------|---------|-----------------|------------------------------|-----------|---------|
|      |      |         |                 | ANT1                         | Limit     |         |
| NTNV | 1M   | SISO    | 2402            | 1.259                        | $\leq 26$ | Pass    |
|      |      |         | 2480            | 1.256                        | $\leq 26$ | Pass    |
|      | 2M   | SISO    | 2402            | 2.197                        | $\leq 26$ | Pass    |
|      |      |         | 2480            | 2.195                        | $\leq 26$ | Pass    |

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## 2.2 Test Graph

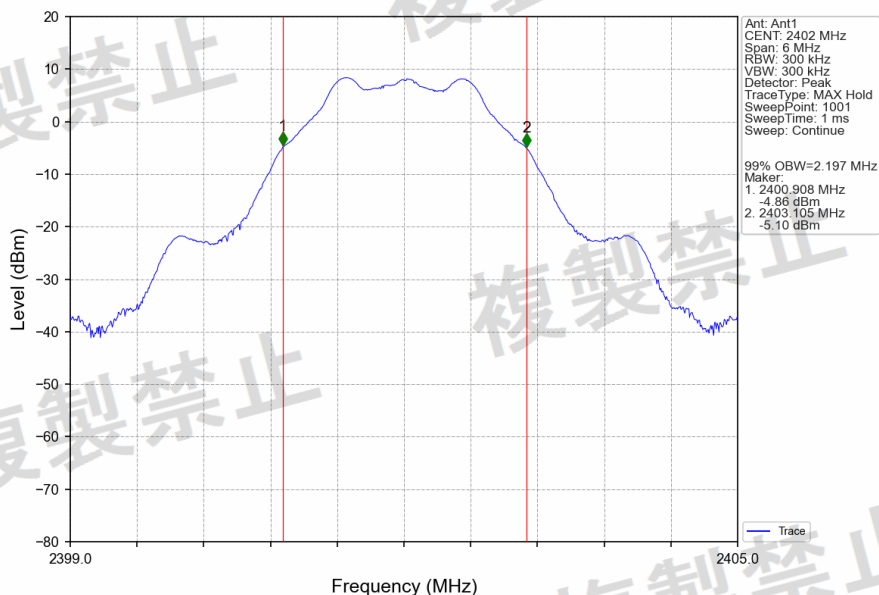
## 2.2.1 OBW



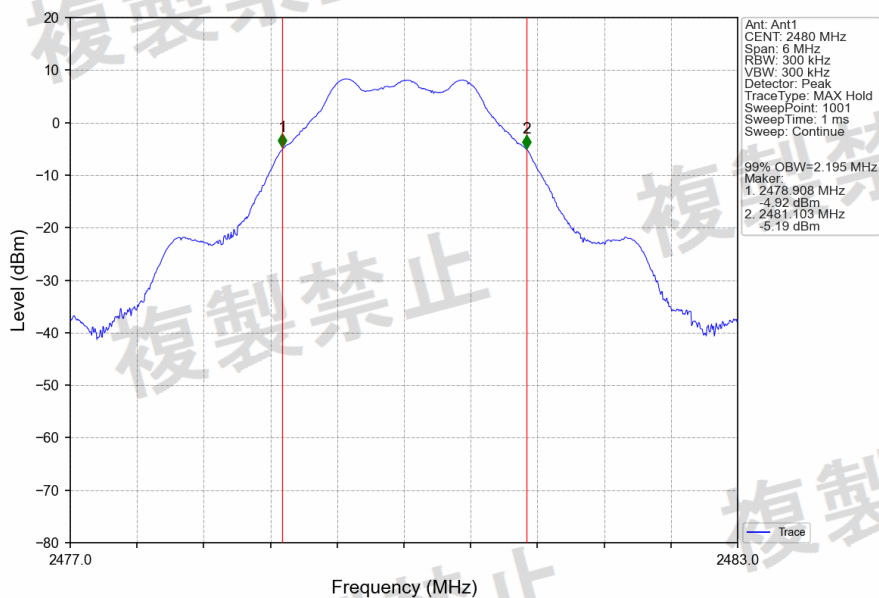
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2M\_2402MHz\_Ant1\_NTNV



2M\_2480MHz\_Ant1\_NTNV



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## 3. Antenna Power

## 3.1 Test Result

## 3.1.1 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   | 5.665              | <=10.00 | 6.000              | -5.58         | <=20  | Pass    |
|      |      |         | 2480            | 1   | 5.182              | <=10.00 | 6.000              | -13.63        | <=20  | Pass    |
|      | 2M   | SISO    | 2402            | 1   | 4.988              | <=10.00 | 6.000              | -16.87        | <=20  | Pass    |
|      |      |         | 2480            | 1   | 4.936              | <=10.00 | 6.000              | -17.73        | <=20  | Pass    |

## 3.1.2 EIRP

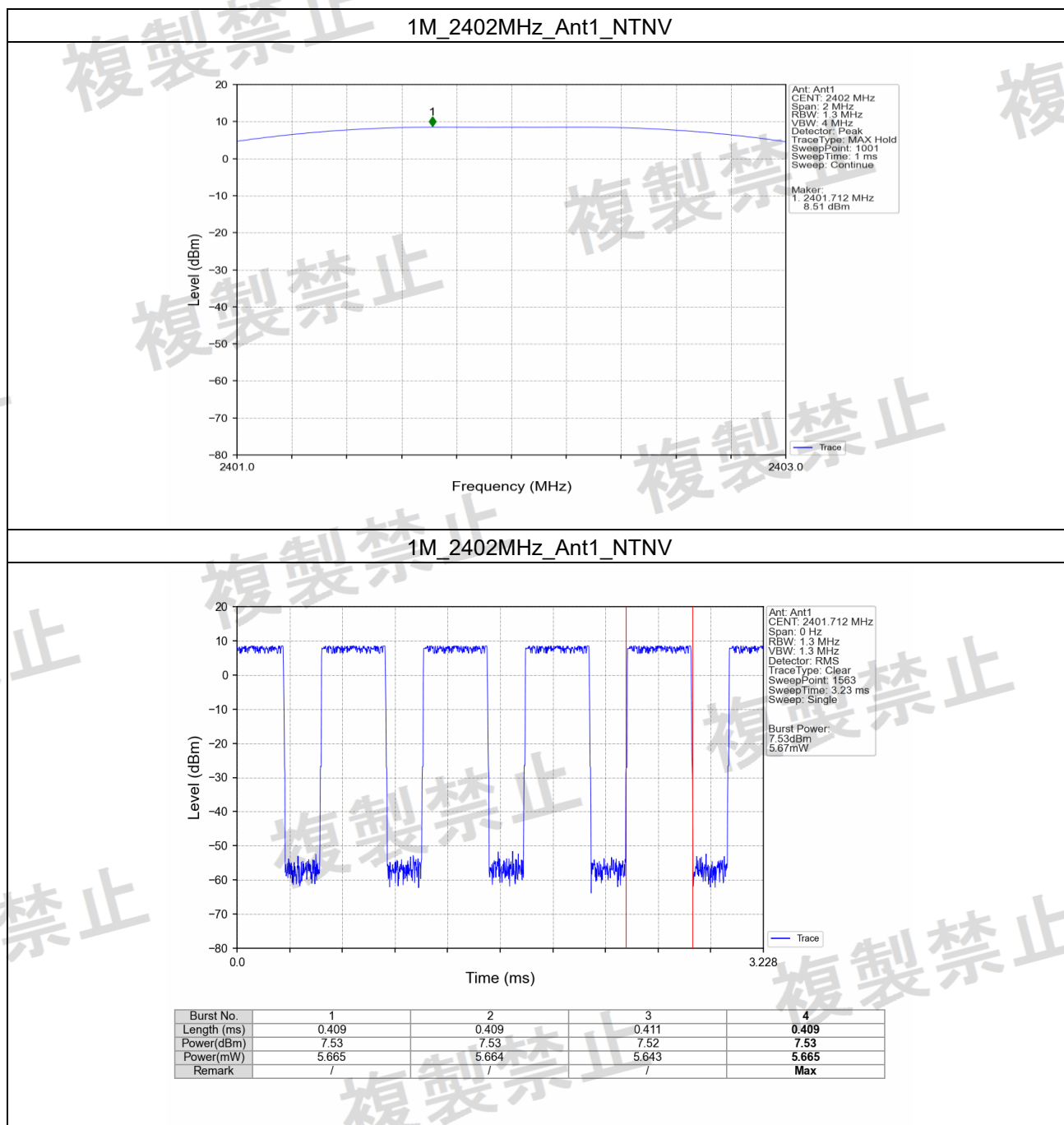
| ENV  | Mode | TX Type | Frequency (MHz) | ANT | Gain (dBi) | EIRP (dBm/MHz) |         | Verdict |
|------|------|---------|-----------------|-----|------------|----------------|---------|---------|
|      |      |         |                 |     |            | Result         | Limit   |         |
| NTNV | 1M   | SISO    | 2402            | 1   | 1.64       | 9.17           | <=12.14 | Pass    |
|      |      |         | 2480            | 1   | 1.64       | 8.78           | <=12.14 | Pass    |
|      | 2M   | SISO    | 2402            | 1   | 1.64       | 8.62           | <=12.14 | Pass    |
|      |      |         | 2480            | 1   | 1.64       | 8.57           | <=12.14 | Pass    |

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## 3.2 Test Graph

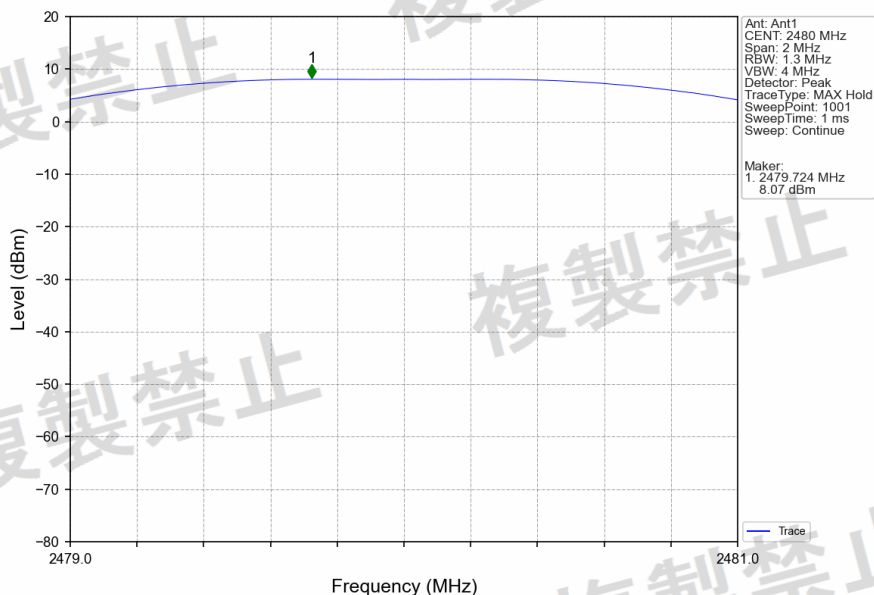
## 3.2.1 Power



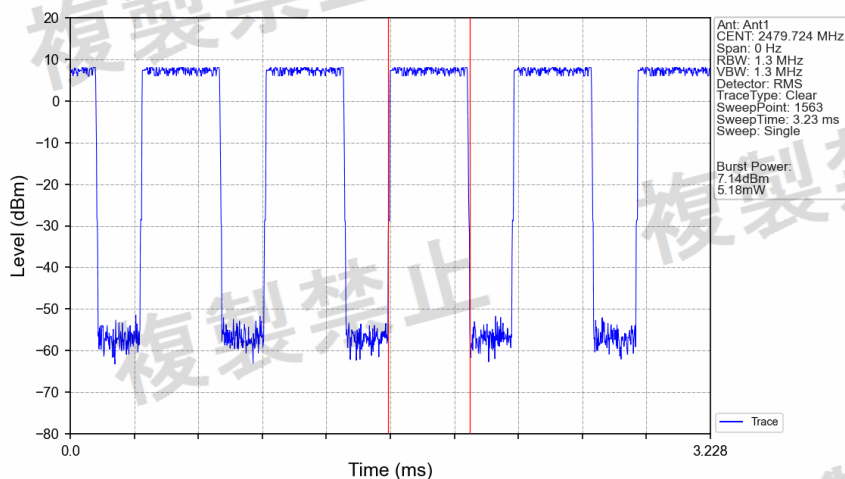
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1M\_2480MHz\_Ant1\_NTNV



1M\_2480MHz\_Ant1\_NTNV

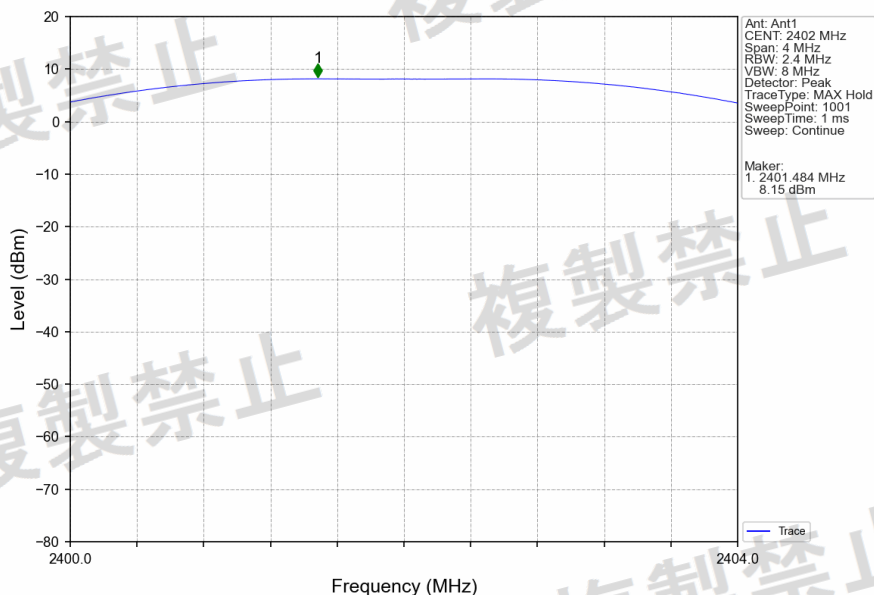


| Burst No.   | 1     | 2     | 3     | 4     |
|-------------|-------|-------|-------|-------|
| Length (ms) | 0.409 | 0.409 | 0.409 | 0.409 |
| Power(dBm)  | 7.14  | 7.14  | 7.14  | 7.14  |
| Power(mW)   | 5.179 | 5.178 | 5.182 | 5.182 |
| Remark      | /     | /     | Max   | /     |

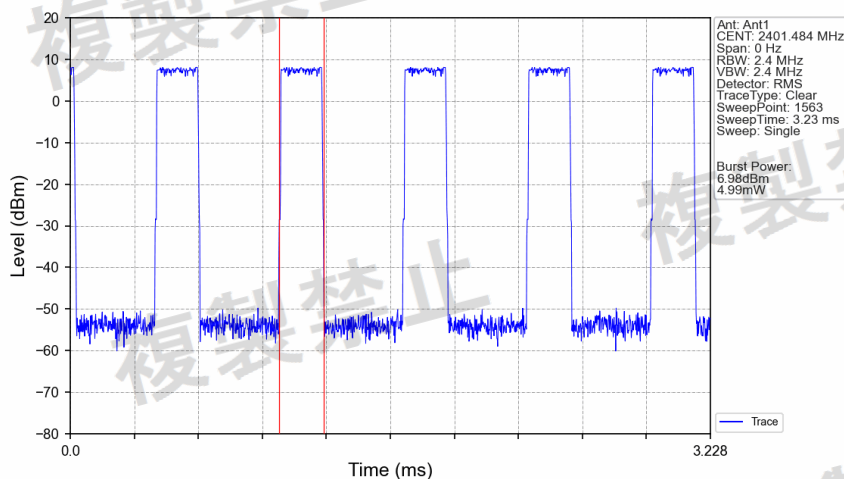
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2M\_2402MHz\_Ant1\_NTNV



2M\_2402MHz\_Ant1\_NTNV

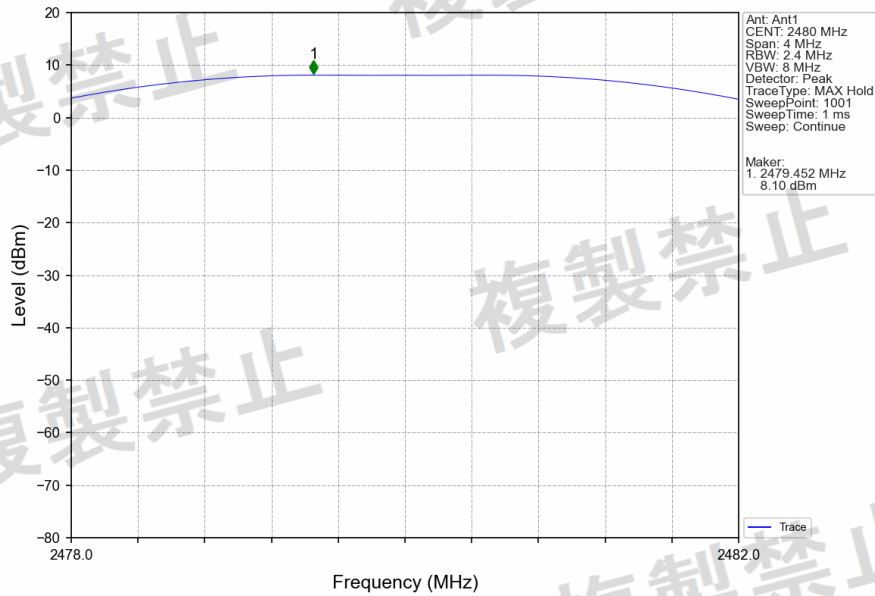


| Burst No.   | 1     | 2     | 3     | 4     | 5     |
|-------------|-------|-------|-------|-------|-------|
| Length (ms) | 0.229 | 0.227 | 0.229 | 0.229 | 0.229 |
| Power(dBm)  | 6.94  | 6.98  | 6.94  | 6.94  | 6.94  |
| Power(mW)   | 4.941 | 4.988 | 4.947 | 4.944 | 4.943 |
| Remark      | /     | Max   | /     | /     | /     |

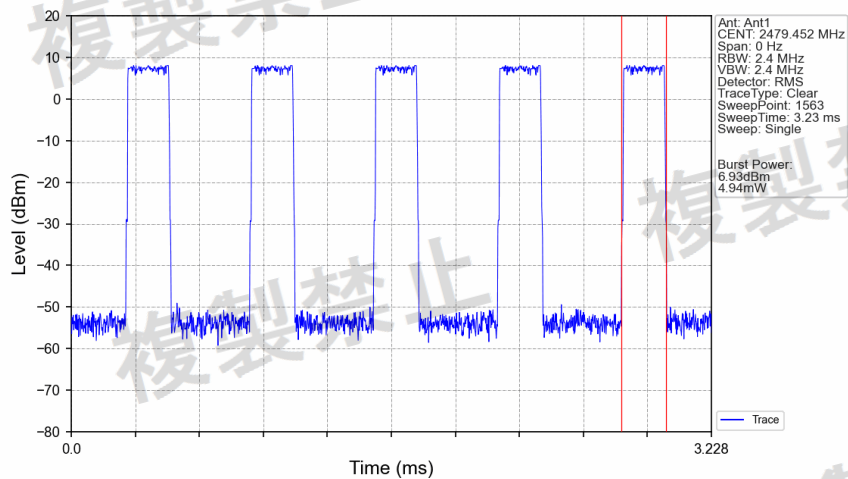
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2M\_2480MHz\_Ant1\_NTNV



2M\_2480MHz\_Ant1\_NTNV



| Burst No.   | 1     | 2     | 3     | 4     | 5     |
|-------------|-------|-------|-------|-------|-------|
| Length (ms) | 0.225 | 0.225 | 0.225 | 0.225 | 0.225 |
| Power(dBm)  | 6.93  | 6.93  | 6.93  | 6.93  | 6.93  |
| Power(mW)   | 4.936 | 4.932 | 4.936 | 4.933 | 4.936 |
| Remark      | /     | /     | /     | /     | Max   |

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## 4. Spurious Emission Intensity

## 4.1 Test Result

## 4.1.1 TxSe\_NTNV

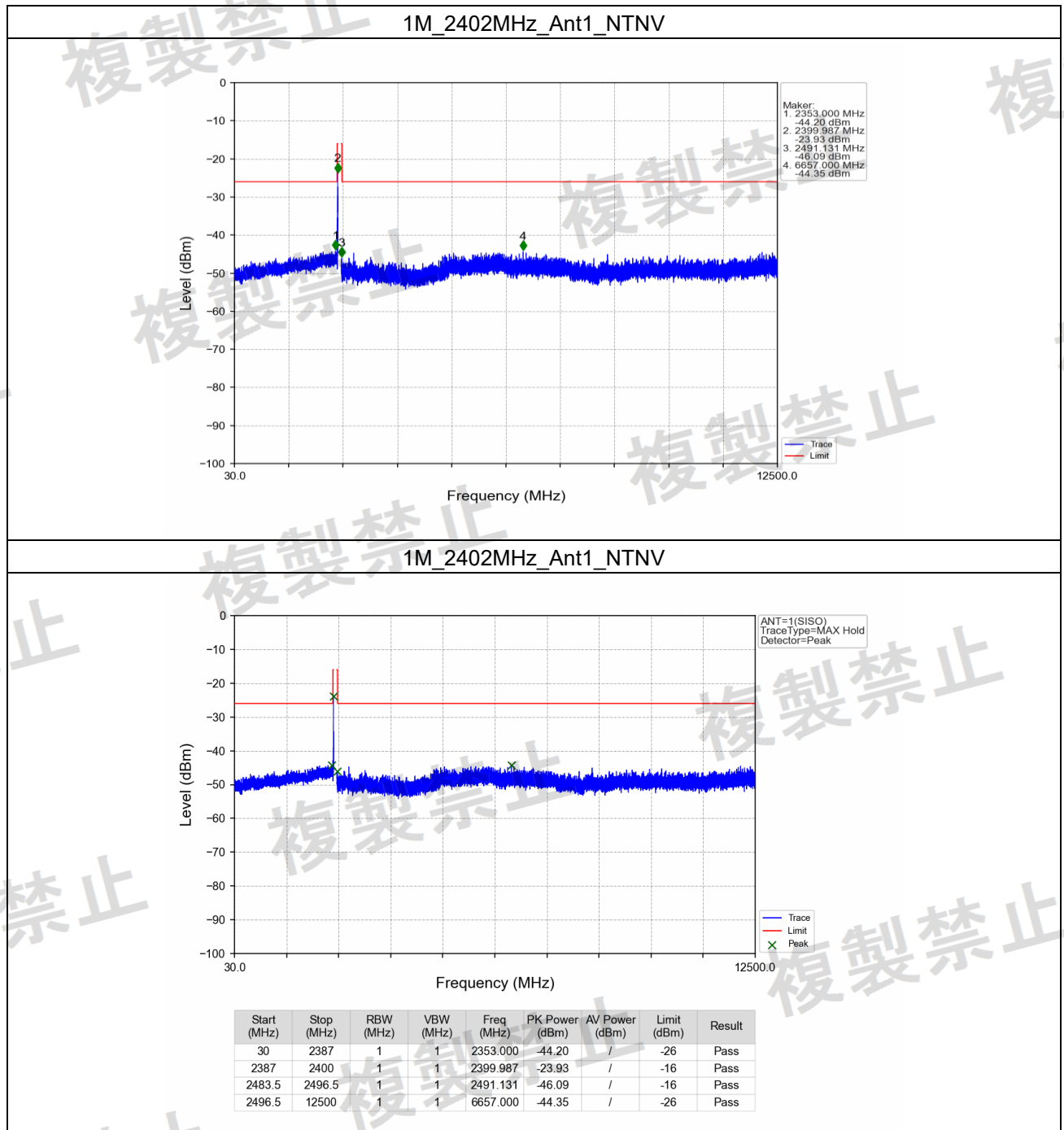
| NTNV |         |             |     |             |            |             |                     |                    |                     |                    |                 |         |
|------|---------|-------------|-----|-------------|------------|-------------|---------------------|--------------------|---------------------|--------------------|-----------------|---------|
| 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       | 2353        | -44.20              | 0.038              | /                   | /                  | 2.5             | Pass    |
|      |         |             |     | 2387        | 2400       | 2399.987    | -23.93              | 4.046              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2483.5      | 2496.5     | 2491.131    | -46.09              | 0.025              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2496.5      | 12500      | 6657        | -44.35              | 0.037              | /                   | /                  | 2.5             | Pass    |
|      |         | 2480        | 1   | 30          | 2387       | 2223.5      | -43.55              | 0.044              | /                   | /                  | 2.5             | Pass    |
|      |         |             |     | 2387        | 2400       | 2391.043    | -45.95              | 0.025              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2483.5      | 2496.5     | 2483.552    | -33.97              | 0.401              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2496.5      | 12500      | 5892        | -44.20              | 0.038              | /                   | /                  | 2.5             | Pass    |
| 2M   | SISO    | 2402        | 1   | 30          | 2387       | 2236.5      | -43.93              | 0.040              | /                   | /                  | 2.5             | Pass    |
|      |         |             |     | 2387        | 2400       | 2399.987    | -13.50              | 44.668             | -18.55              | 13.964             | 25              | Pass    |
|      |         |             |     | 2483.5      | 2496.5     | 2483.89     | -46.20              | 0.024              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2496.5      | 12500      | 5974        | -43.62              | 0.043              | /                   | /                  | 2.5             | Pass    |
|      |         | 2480        | 1   | 30          | 2387       | 2010.5      | -43.83              | 0.041              | /                   | /                  | 2.5             | Pass    |
|      |         |             |     | 2387        | 2400       | 2390.172    | -45.94              | 0.025              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2483.5      | 2496.5     | 2483.526    | -33.86              | 0.411              | /                   | /                  | 25              | Pass    |
|      |         |             |     | 2496.5      | 12500      | 5038        | -43.26              | 0.047              | /                   | /                  | 2.5             | Pass    |

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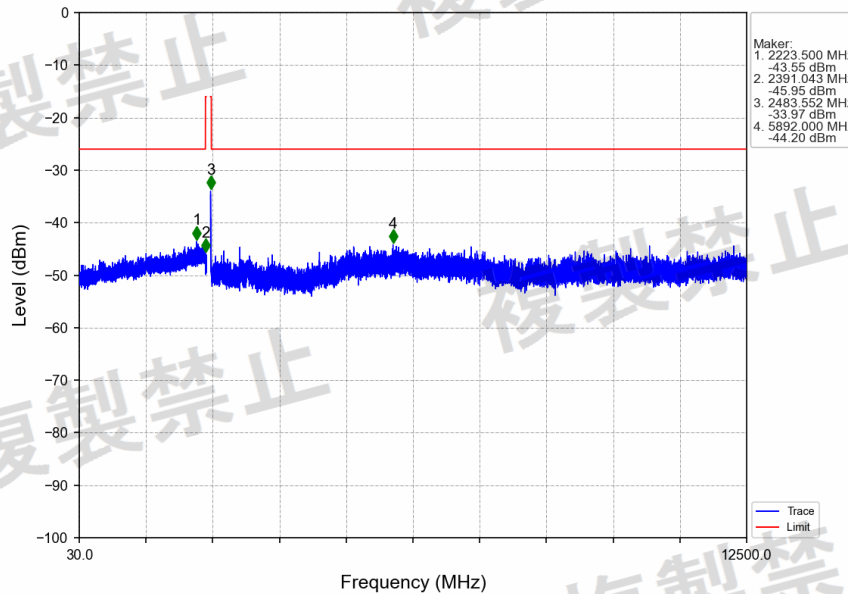
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## 4.2 Test Graph

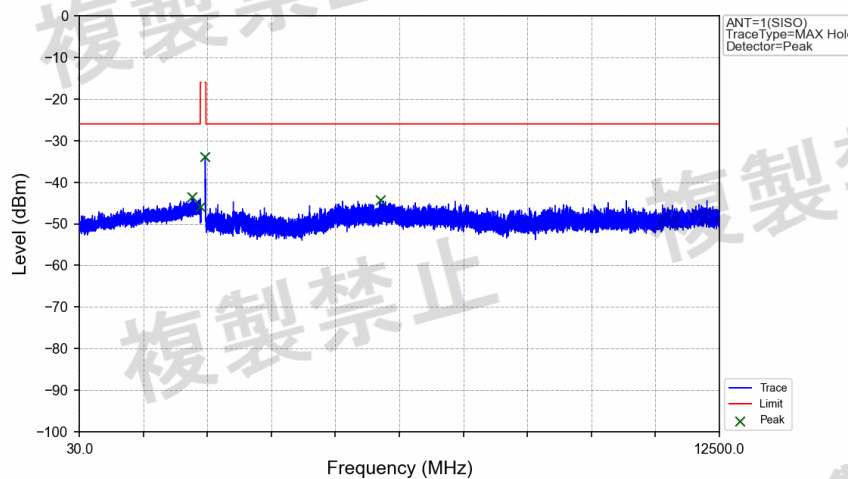
## 4.2.1 TxSe\_NTNV



1M\_2480MHz\_Ant1\_NTNV



1M\_2480MHz\_Ant1\_NTNV

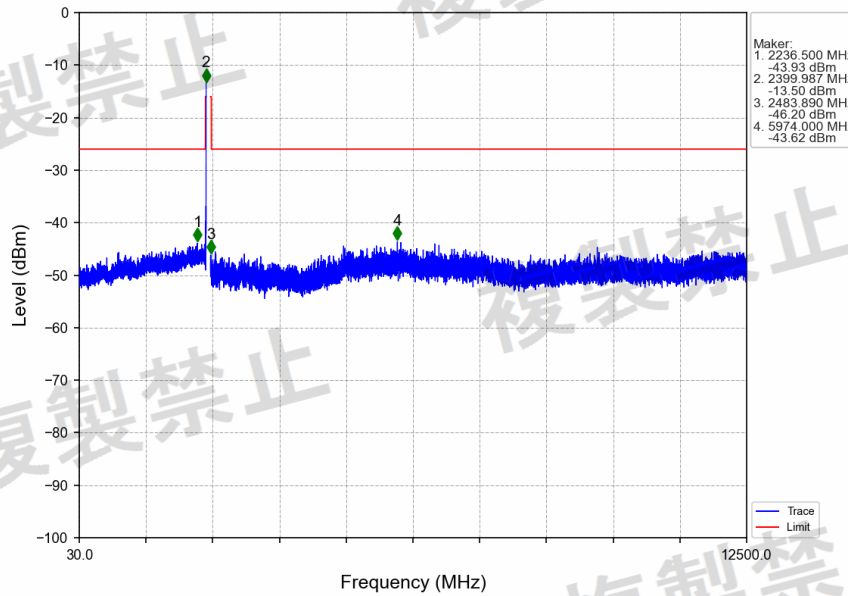


| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 2387       | 1         | 1         | 2223.500   | -43.55         | /              | -26         | Pass   |
| 2387        | 2400       | 1         | 1         | 2391.043   | -45.95         | /              | -16         | Pass   |
| 2483.5      | 2496.5     | 1         | 1         | 2483.552   | -33.97         | /              | -16         | Pass   |
| 2496.5      | 12500      | 1         | 1         | 5892.000   | -44.20         | /              | -26         | Pass   |

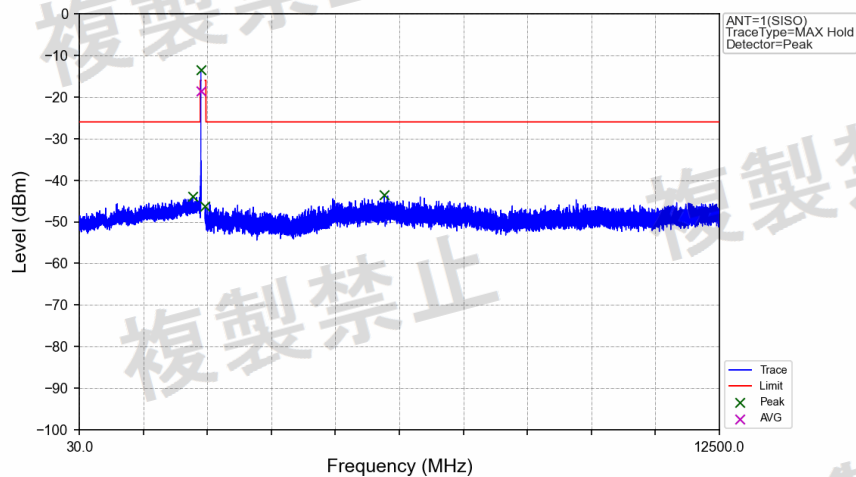
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2M\_2402MHz\_Ant1\_NTNV



2M\_2402MHz\_Ant1\_NTNV

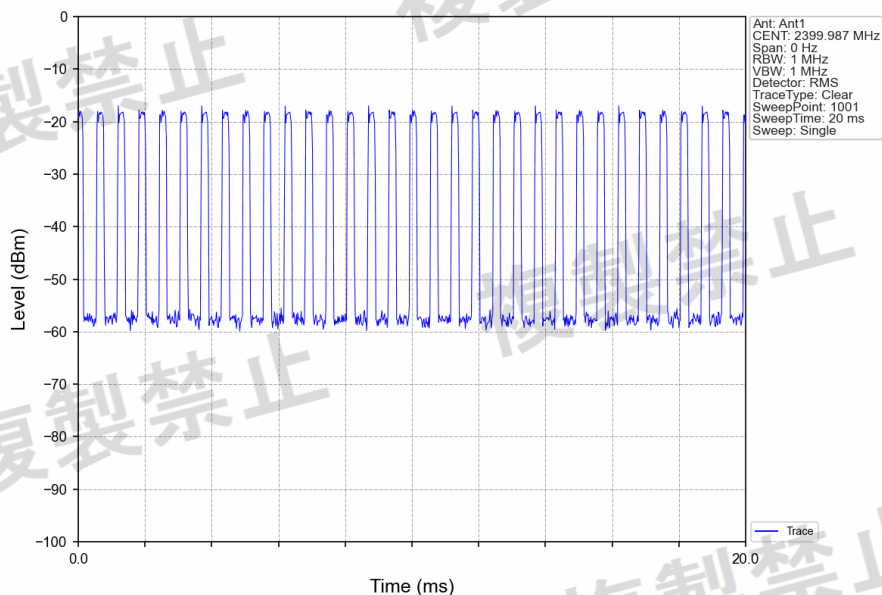


| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 2387       | 1         | 1         | 2236.500   | -43.93         | /              | -26         | Pass   |
| 2387        | 2400       | 1         | 1         | 2399.987   | -13.50         | -18.55         | -16         | Pass   |
| 2483.5      | 2496.5     | 1         | 1         | 2483.890   | -46.20         | /              | -16         | Pass   |
| 2496.5      | 12500      | 1         | 1         | 5974.000   | -43.62         | /              | -26         | Pass   |

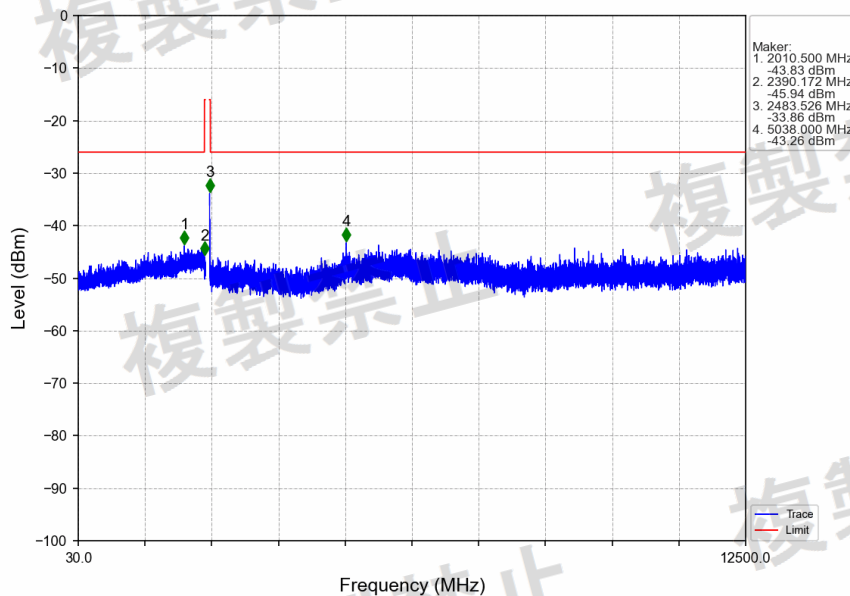
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2M\_2402MHz\_Ant1\_NTNV



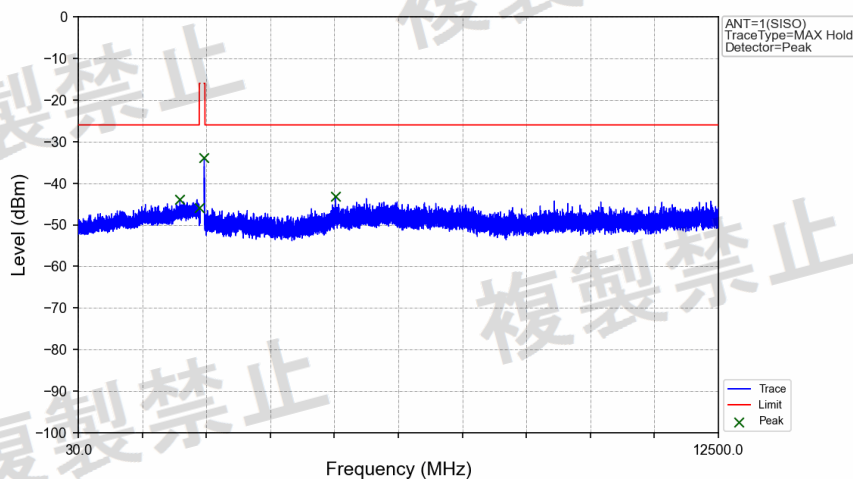
2M\_2480MHz\_Ant1\_NTNV



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## 2M\_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         | 2010.500   | -43.83         | /              | -26         | Pass   |
| 2387        | 2400       | 1         | 1         | 2390.172   | -45.94         | /              | -16         | Pass   |
| 2483.5      | 2496.5     | 1         | 1         | 2483.526   | -33.86         | /              | -16         | Pass   |
| 2496.5      | 12500      | 1         | 1         | 5038.000   | -43.26         | /              | -26         | Pass   |

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## 5. Secondary Radiated Emission

## 5.1 Test Result

## 5.1.1 RxSe\_NTNV

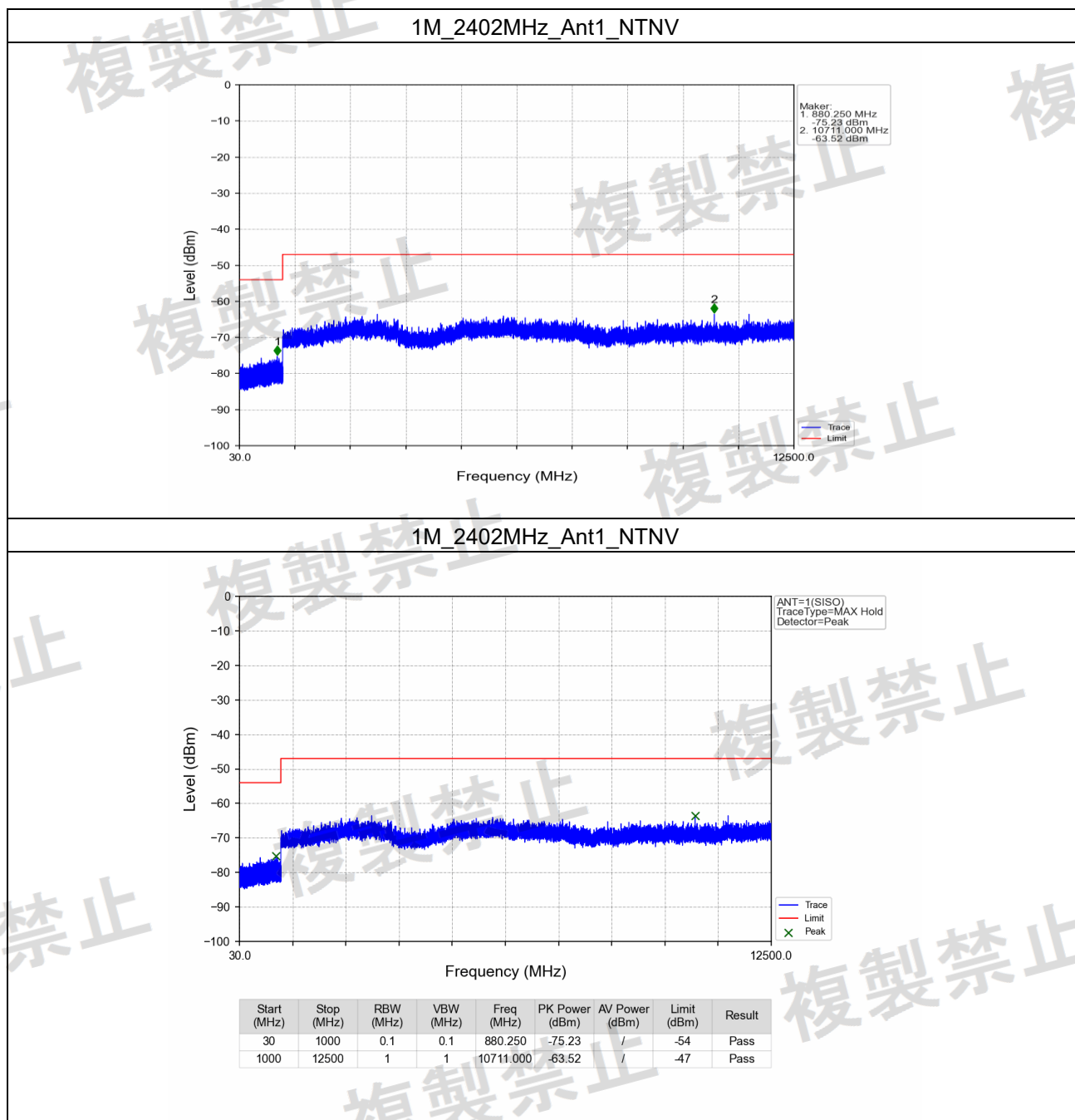
| NTNV |         |             |     |             |            |             |                |               |                |               |            |         |
|------|---------|-------------|-----|-------------|------------|-------------|----------------|---------------|----------------|---------------|------------|---------|
| 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       | 880.25      | -75.23         | 0.030         | /              | /             | 4          | Pass    |
|      |         |             |     | 1000        | 12500      | 10711       | -63.52         | 0.445         | /              | /             | 20         | Pass    |
|      |         | 2480        | 1   | 30          | 1000       | 835.95      | -75.75         | 0.027         | /              | /             | 4          | Pass    |
|      |         |             |     | 1000        | 12500      | 5982.5      | -63.35         | 0.462         | /              | /             | 20         | Pass    |
| 2M   | SISO    | 2402        | 1   | 30          | 1000       | 450.05      | -75.04         | 0.031         | /              | /             | 4          | Pass    |
|      |         |             |     | 1000        | 12500      | 1721.5      | -59.04         | 1.247         | /              | /             | 20         | Pass    |
|      |         | 2480        | 1   | 30          | 1000       | 916.35      | -75.37         | 0.029         | /              | /             | 4          | Pass    |
|      |         |             |     | 1000        | 12500      | 12301       | -63.20         | 0.479         | /              | /             | 20         | Pass    |

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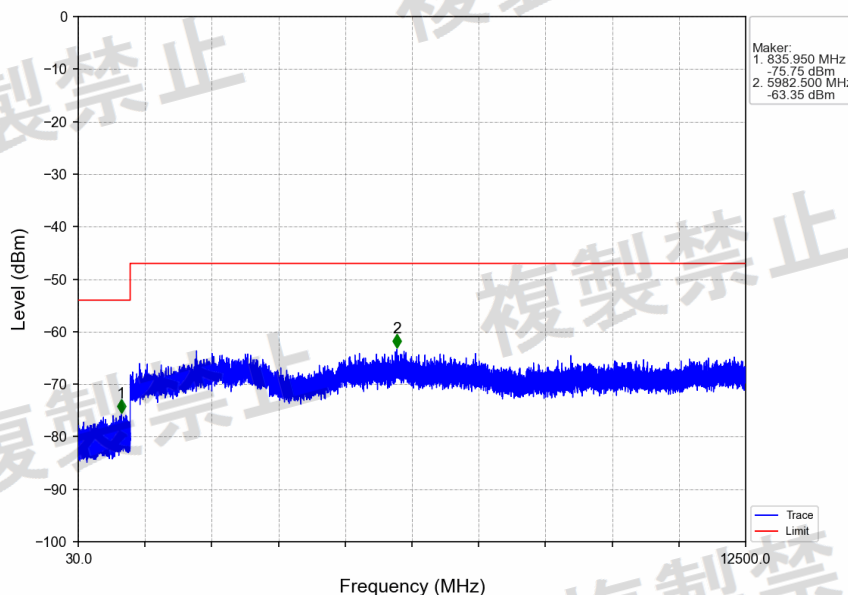
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## 5.2 Test Graph

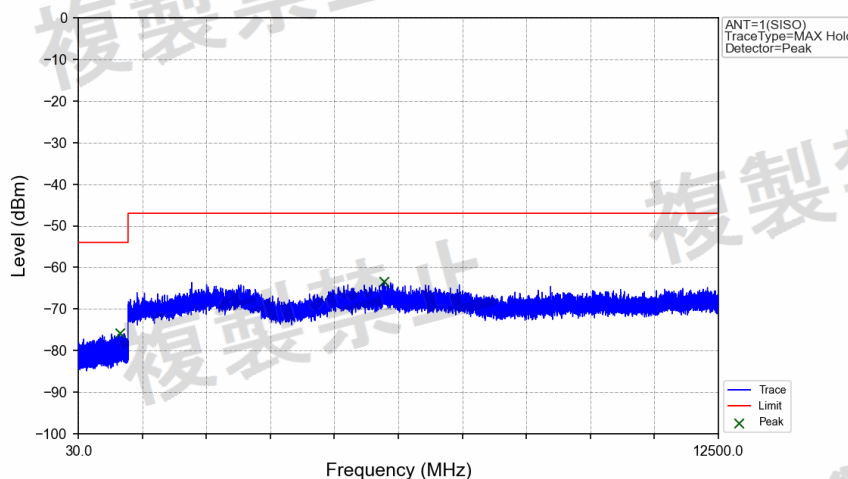
## 5.2.1 RxSe\_NTNV



1M\_2480MHz\_Ant1\_NTNV



1M\_2480MHz\_Ant1\_NTNV

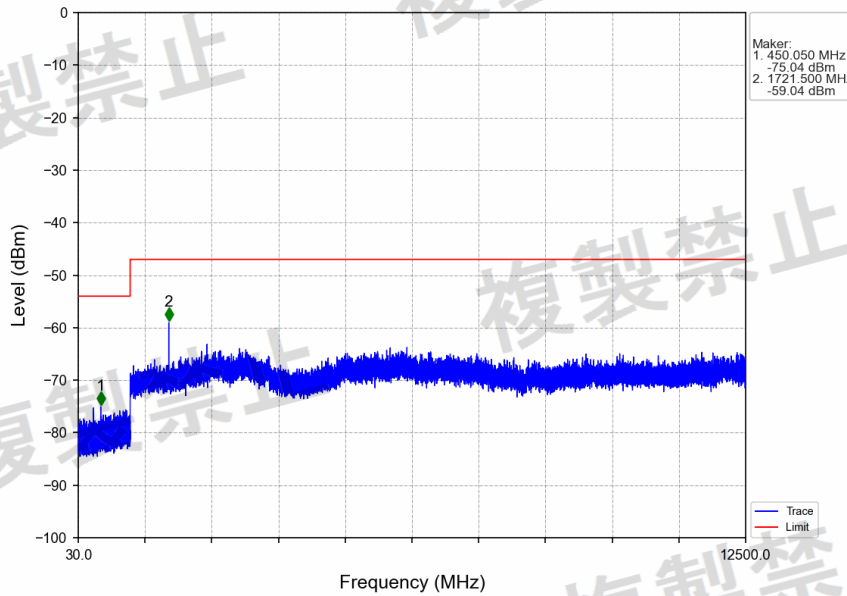


| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 1000       | 0.1       | 0.1       | 835.950    | -75.75         | /              | -54         | Pass   |
| 1000        | 12500      | 1         | 1         | 5982.500   | -63.35         | /              | -47         | Pass   |

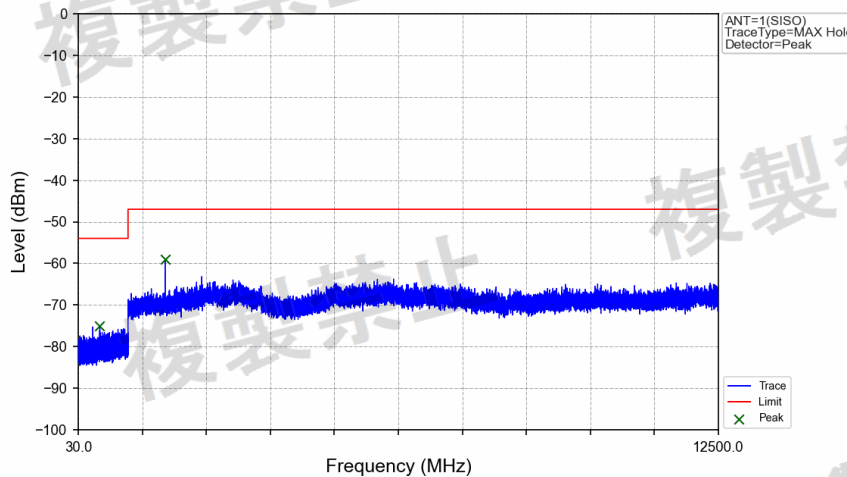
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2M\_2402MHz\_Ant1\_NTNV



2M\_2402MHz\_Ant1\_NTNV

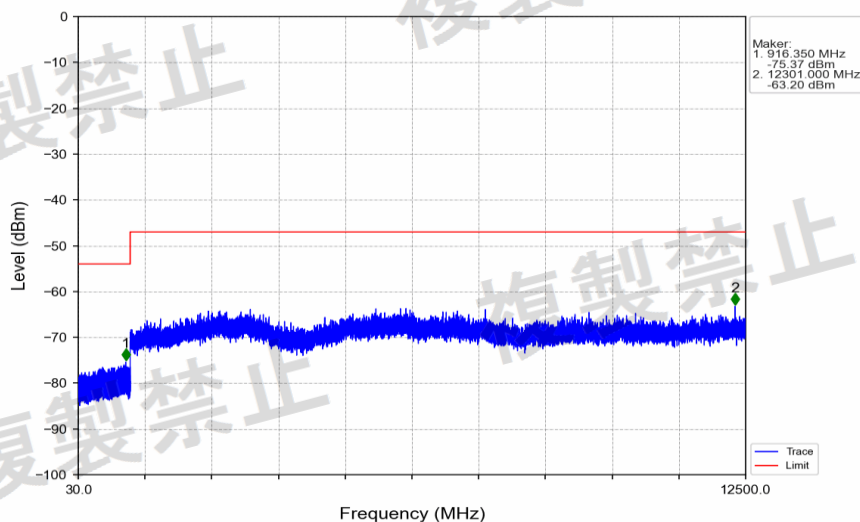


| Start (MHz) | Stop (MHz) | RBW (MHz) | VBW (MHz) | Freq (MHz) | PK Power (dBm) | AV Power (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|-----------|------------|----------------|----------------|-------------|--------|
| 30          | 1000       | 0.1       | 0.1       | 450.050    | -75.04         | /              | -54         | Pass   |
| 1000        | 12500      | 1         | 1         | 1721.500   | -59.04         | /              | -47         | Pass   |

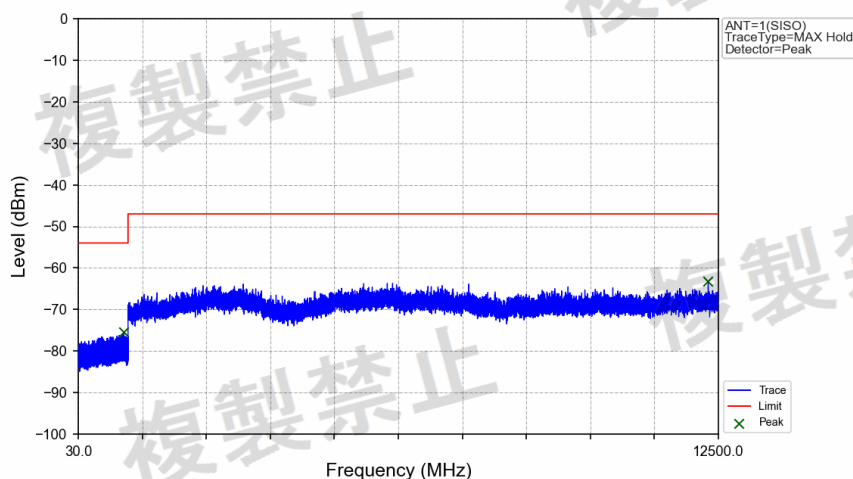
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2M\_2480MHz\_Ant1\_NTNV



2M\_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       | 916.350    | -75.37         | /              | -54         | Pass   |
| 1000        | 12500      | 1         | 1         | 12301.000  | -63.20         | /              | -47         | Pass   |

- End of the Report -

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