

**Japan - TEST REPORT**Report Number : **68.910.21.0048.01** Date of Issue: November 3, 2021Model : **CDW-208189F-02**

Product Type : Wi-Fi module

Applicant : Shenzhen ZhiYi Technology Co., Ltd.

Address : 3rd Floor, Bld B, Hytera Technology Park,

No.3, 4th of Baolong Road, Longgang, 518100 Shenzhen,PEOPLE'S REPUBLIC OF CHINA

Production Facility : CHINA DRAGON TECHNOLOGY LIMITED

Address : Room 1, 2F(B6) and the Security Room (B4),

Haosan No.1 industry, Nanpu Road, Shangliao Community,Xinqiao Street, Baoan District, Shenzhen, ChinaTest Result : ☒ **Positive** ☐ **Negative**Total pages including Appendices : 59

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## 1 General Information

### 1.1 Notes

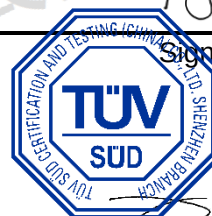
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Prepared By  
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2021-11-03  
Date

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Approved By  
Project Manager

2021-11-03  
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## 1.2 Testing Laboratory

Site 1:

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu,  
Nantou, Nanshan District, Shenzhen City, 518052, P. R. China,

Telephone: 86 755 8828 6998

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## 1.3 Details of Applicant

Client: Shenzhen ZhiYi Technology Co., Ltd.

Address: 3rd Floor, Bld B, Hytera Technology Park, No.3, 4th of Baolong Road,  
Longgang, 518100 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Product Description: Wi-Fi module

Submitted Model No.: CDW-208189F-02

## 1.4 Application Details

Date of receipt of order: September 28, 2021

Date of receipt of test item: September 29, 2021

Date of test: October 12, 2021- October 12, 2021

## 1.5 Test Item

Refer to table 1

## 1.6 Applied Standard

APPLIED PRODUCT STANDARD

ARIB STD-T66 Version 3.7/2014-10

ARIB STD-33 Version 5.4/ 2010-04

## 1.7 Test Summary

Table 1. Summary of results

| Conformance requirement according to<br>ARIB STD-T66 Version 3.7/2014-10 |                                          | Result | Test Site |
|--------------------------------------------------------------------------|------------------------------------------|--------|-----------|
| Essential parameter                                                      | Corresponding technical requirements     |        |           |
| Transmitter requirements                                                 | 3.2 (2) Antenna Power                    | PASS   | Site 1    |
|                                                                          | 3.2 (3) Tolerances for Antenna Power     | PASS   | Site 1    |
|                                                                          | 3.2 (4) Frequency Tolerance              | PASS   | Site 1    |
|                                                                          | 3.2 (5) Transmission Rate                | PASS   | Site 1    |
|                                                                          | 3.2 (7) Occupied Frequency Bandwidth     | PASS   | Site 1    |
|                                                                          | 3.2 (8) Spread Bandwidth                 | PASS   | Site 1    |
|                                                                          | 3.2 (9) Process Gain                     | PASS   | Site 1    |
|                                                                          | 3.2 (10) Number of Carriers              | N/A*   | ---       |
|                                                                          | 3.2 (11) Dwell Time                      | N/A*   | ---       |
| Receiver requirements                                                    | 3.2 (6) Spurious Emissions               | PASS   | Site 1    |
|                                                                          | 3.5 (1) Secondary Radiated Emissions     | PASS   | Site 1    |
|                                                                          | 3.4 (1) Interference prevention function | PASS   | Site 1    |

NOTE 1: Measurement taken is within the measurement uncertainty of measurement system.

NOTE 2: “\*” N/A is an abbreviation for Not Applicable.

Table 2. Summary of results

| Conformance requirement according to<br>ARIB STD-33 Version 5.4/ 2010-04 |                                          | Result | Test Site |
|--------------------------------------------------------------------------|------------------------------------------|--------|-----------|
| Essential parameter                                                      | Corresponding technical requirements     |        |           |
| Transmitter requirements                                                 | 3.2 (2) Antenna Power                    | PASS   | Site 1    |
|                                                                          | 3.2 (3) Tolerances for Antenna Power     | PASS   | Site 1    |
|                                                                          | 3.2 (4) Frequency Tolerance              | PASS   | Site 1    |
|                                                                          | 3.2 (5) Transmission Rate                | PASS   | Site 1    |
|                                                                          | 3.2 (7) Occupied Frequency Bandwidth     | PASS   | Site 1    |
|                                                                          | 3.2 (8) Spread Bandwidth                 | PASS   | Site 1    |
|                                                                          | 3.2 (9) Process Gain                     | PASS   | Site 1    |
|                                                                          | 3.2 (10) Number of Carriers              | N/A*   | ---       |
|                                                                          | 3.2 (11) Dwell Time                      | N/A*   | ---       |
|                                                                          | 3.2 (6) Spurious Emissions               | PASS   | Site 1    |
| Receiver requirements                                                    | 3.5 (1) Secondary Radiated Emissions     | PASS   | Site 1    |
|                                                                          | 3.4 (1) Interference prevention function | PASS   | Site 1    |

NOTE 1: Measurement taken is within the measurement uncertainty of measurement system.

NOTE 2: "\*" N/A is an abbreviation for Not Applicable.

## 2 Equipment Specification

### 2.1 General Description

This Equipment Under Test is a Wi-Fi module with 2.4 GHz Wi-Fi function. The TX and RX range of 2.4GHz Wi-Fi is 2412MHz-2484MHz.

### 2.2 Technical Data

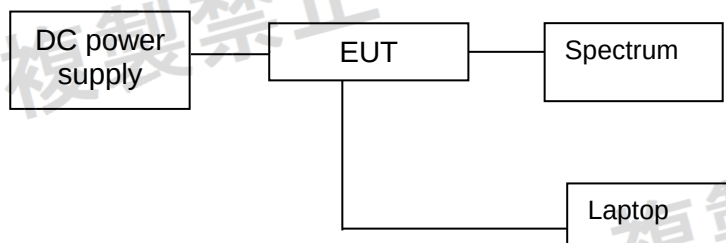
|                            |                                                                     |
|----------------------------|---------------------------------------------------------------------|
| Product Type:              | Wi-Fi module                                                        |
| Model(s):                  | CDW-208189F-02                                                      |
| Ratings:                   | 3.3VDC, 600mA                                                       |
| Transmit Frequency:        | 2412MHz-2472MHz for 802.11b/g/n-HT20/n-HT40;<br>2484MHz for 802.11b |
| Receiver Frequency:        | 2412MHz-2472MHz for 802.11b/g/n-HT20/n-HT40;<br>2484MHz for 802.11b |
| Antenna Gain:              | 1.42 dBi                                                            |
| Maximum RF Transmit Power: | 8.892 mW/MHz                                                        |

### 2.3 Test conditions and test Connections

#### 2.3.1 Test Conditions

The EUT will be connected to test system in order to simulate normal operating conditions (with reference to the guidance given in the standard for this type of equipment).

#### 2.3.2 Test Connections



Test Configuration

## 2.4 Auxiliary Equipment Used during Test

**Table 3. Auxiliary Equipment Used during Test**

| Description | Manufacturer | Model no. | Serial no. | CAL. DUE DATE |
|-------------|--------------|-----------|------------|---------------|
| Laptop      | X220         | Thinkpad  | ---        | ---           |

## 2.5 Lists of Test Instruments

**Table 4. Lists of Test Instruments**

### TS8997 Test System

| DESCRIPTION                               | MANUFACTURER    | MODEL NO.          | EQUIPMENT ID       | SERIAL NO.          | CAL INTERVAL (YEAR) | CAL. DUE DATE |
|-------------------------------------------|-----------------|--------------------|--------------------|---------------------|---------------------|---------------|
| Signal Generator                          | Rohde & Schwarz | SMB100A            | 68-4-48-14-001     | 108272              | 1                   | 2022-6-3      |
| Vector Signal Generator                   | Rohde & Schwarz | SMBV100A           | 68-4-48-18-001     | 262825              | 1                   | 2022-6-3      |
| Communication Synthetical Test Instrument | Rohde & Schwarz | CMW 270            | 68-4-48-18-003     | 101251              | 1                   | 2022-6-3      |
| Signal Analyzer                           | Rohde & Schwarz | FSV40              | 68-4-74-14-004     | 101030              | 1                   | 2022-6-3      |
| Vector Signal Generator                   | Rohde & Schwarz | SMU 200A           | 68-4-48-14-003     | 105324              | 1                   | 2022-6-3      |
| RF Switch Module                          | Rohde & Schwarz | OSP120/OSP-B157    | 68-4-93-14-003     | 101226/100851       | 1                   | 2022-6-3      |
| Power Splitter                            | Weinschel       | 1580               | 68-4-85-14-001     | SC319               | 1                   | 2022-6-3      |
| 10dB Attenuator                           | Weinschel       | 4M-10              | 68-4-81-14-003     | 43152               | 1                   | 2022-6-3      |
| 10dB Attenuator                           | R&S             | DNF                | 68-4-81-14-004     | DNF-001             | 1                   | 2022-6-3      |
| 10dB Attenuator                           | R&S             | DNF                | 68-4-81-14-005     | DNF-002             | 1                   | 2022-6-3      |
| 10dB Attenuator                           | R&S             | DNF                | 68-4-81-14-006     | DNF-003             | 1                   | 2022-6-3      |
| 10dB Attenuator                           | R&S             | DNF                | 68-4-81-14-007     | DNF-004             | 1                   | 2022-6-3      |
| Test software                             | Rohde & Schwarz | EMC32              | 68-4-48-14-003-A10 | Version 10.60.10    | N/A                 | N/A           |
| Test software                             | Tonscend        | System for BT/WIFI | 68-4-74-14-006-A13 | Version 2.6.77.0518 | N/A                 | N/A           |
| Shielding Room                            | TDK             | TS8997             | 68-4-90-19-003     | ----                | 1                   | 2022-11-07    |

## 2.6 Measurement Uncertainty

For the test methods, according to the harmonized standard and conformance testing standard, the measurement uncertainty figures shall be calculated in accordance with TR 100 028 and shall correspond to an expansion factor (coverage factor)  $k = 1.96$  (which provides a confidence level of 95 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

| System Measurement Uncertainty                 |                                                                                      |
|------------------------------------------------|--------------------------------------------------------------------------------------|
| Test Items                                     | Extended Uncertainty                                                                 |
| Uncertainty for Conducted RF test with TS 8997 | RF Power Conducted: 1.31dB<br>Frequency test involved:<br>0.6×10 <sup>-7</sup> or 1% |

### Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2007, clause 4.4.3 and 4.5.1.

### 3 Measurements Result

#### 3.1 Antenna Power

##### 3.1.1 Test condition

|                      |              |
|----------------------|--------------|
| Test position:       | Transmitting |
| Ambient temperature: | 21.0 °C      |
| Relative humidity:   | 50.2 %       |
| Atmosphere Pressure: | 101.0 KPa    |

##### 3.1.2 Limit (ARIB STD-T66, Clause 3.2 (2)-a)

- The antenna power of a transmitting equipment (with a frequency band of 2,427 – 2,470.75 MHz, for spread spectrum systems using FH systems, hybrid systems of DS and FH, or hybrid systems of FH and OFDM) shall be such that the mean power within a bandwidth of 1 MHz is 3 mW or less in the case of modulation using a standard coding test signal with the same transmission rate as that of the modulation signal.
- The antenna power of a transmitting equipment using a spread spectrum system other than any of those in “a” and the OFDM system shall be such that the mean power within a bandwidth of 1 MHz is 10 mW or less in the case of modulation using a standard coding test signal with the same transmission rate as that of the modulation signal.
- The antenna power of a transmitting equipment using systems other than any of those in “a” or “b” shall be 10 mW or less.

##### 3.1.3 Test result

11b

| Frequency (MHz)  | Voltage (VDC) | Reading (dBm/MHz) | Result (mW/MHz) | Limit (mW/MHz) |
|------------------|---------------|-------------------|-----------------|----------------|
| 2412             | 3.0           | 8.05              | 6.378           | 10             |
|                  | 3.3           | 8.06              | 6.397           | 10             |
|                  | 3.6           | 8.07              | 6.415           | 10             |
| 2442             | 3.0           | 9.38              | 8.674           | 10             |
|                  | 3.3           | 9.49              | 8.892           | 10             |
|                  | 3.6           | 9.32              | 8.547           | 10             |
| 2472             | 3.0           | 8.64              | 7.311           | 10             |
|                  | 3.3           | 8.65              | 7.328           | 10             |
|                  | 3.6           | 8.62              | 7.284           | 10             |
| 2484             | 3.0           | 8.03              | 6.354           | 10             |
|                  | 3.3           | 8.07              | 6.412           | 10             |
|                  | 3.6           | 8.06              | 6.401           | 10             |
| Conclusion: PASS |               |                   |                 |                |

11g

| Frequency (MHz)  | Voltage (VDC) | Reading (dBm/MHz) | Result (mW/MHz) | Limit (mW/MHz) |
|------------------|---------------|-------------------|-----------------|----------------|
| 2412             | 3.0           | 5.92              | 3.912           | 10             |
|                  | 3.3           | 5.82              | 3.819           | 10             |
|                  | 3.6           | 5.78              | 3.784           | 10             |
| 2442             | 3.0           | 7.06              | 5.087           | 10             |
|                  | 3.3           | 7.09              | 5.117           | 10             |
|                  | 3.6           | 7.08              | 5.105           | 10             |
| 2472             | 3.0           | 6.70              | 4.681           | 10             |
|                  | 3.3           | 6.70              | 4.677           | 10             |
|                  | 3.6           | 6.60              | 4.568           | 10             |
| Conclusion: PASS |               |                   |                 |                |

## 11nHT20

| Frequency (MHz)  | Voltage (VDC) | Reading (dBm/MHz) | Result (mW/MHz) | Limit (mW/MHz) |
|------------------|---------------|-------------------|-----------------|----------------|
| 2412             | 3.0           | 5.90              | 3.891           | 10             |
|                  | 3.3           | 6.01              | 3.990           | 10             |
|                  | 3.6           | 5.97              | 3.954           | 10             |
| 2442             | 3.0           | 7.54              | 5.681           | 10             |
|                  | 3.3           | 7.57              | 5.715           | 10             |
|                  | 3.6           | 7.49              | 5.614           | 10             |
| 2472             | 3.0           | 6.59              | 4.557           | 10             |
|                  | 3.3           | 6.79              | 4.775           | 10             |
|                  | 3.6           | 6.64              | 4.612           | 10             |
| Conclusion: PASS |               |                   |                 |                |

## 11nHT40

| Frequency (MHz)  | Voltage (VDC) | Reading (dBm/MHz) | Result (mW/MHz) | Limit (mW/MHz) |
|------------------|---------------|-------------------|-----------------|----------------|
| 2422             | 3.0           | 3.53              | 2.255           | 5              |
|                  | 3.3           | 3.71              | 2.350           | 5              |
|                  | 3.6           | 3.27              | 2.124           | 5              |
| 2442             | 3.0           | 2.05              | 1.603           | 5              |
|                  | 3.3           | 2.09              | 1.618           | 5              |
|                  | 3.6           | 2.00              | 1.584           | 5              |
| 2462             | 3.0           | 4.49              | 2.810           | 5              |
|                  | 3.3           | 4.41              | 2.761           | 5              |
|                  | 3.6           | 4.07              | 2.554           | 5              |
| Conclusion: PASS |               |                   |                 |                |

## 3.1.4 Result

The equipment met the requirement of this clause.

### 3.2 Tolerances for Antenna Power

#### 3.2.1 Test condition

|                      |              |
|----------------------|--------------|
| Test position:       | Transmitting |
| Ambient temperature: | 21.0 °C      |
| Relative humidity:   | 49.8 %       |
| Atmosphere Pressure: | 101.0 KPa    |

#### 3.2.2 Limit (ARIB STD-T66, Clause 3.2 (3))

Upper and lower limits of the tolerance for antenna power shall be 20% and 80%, respectively. Note that they represent the tolerance for the maximum rated antenna power and that no upper and lower limits of the tolerance are regulated in the case of antenna power reduction for communications reasons.

#### 3.2.3 Test result

11b

| Frequency (MHz)  | Voltage (VDC) | Declared Output Power (mW/MHz) | Result (mW/MHz) | Tolerances (%) | Limit (%) |
|------------------|---------------|--------------------------------|-----------------|----------------|-----------|
| 2412             | 3.0           | 10                             | 6.378           | -36.22%        | +20%~-80% |
|                  | 3.3           | 10                             | 6.397           | -36.03%        | +20%~-80% |
|                  | 3.6           | 10                             | 6.415           | -35.85%        | +20%~-80% |
| 2442             | 3.0           | 10                             | 8.674           | -13.26%        | +20%~-80% |
|                  | 3.3           | 10                             | 8.892           | -11.08%        | +20%~-80% |
|                  | 3.6           | 10                             | 8.547           | -14.53%        | +20%~-80% |
| 2472             | 3.0           | 10                             | 7.311           | -26.89%        | +20%~-80% |
|                  | 3.3           | 10                             | 7.328           | -26.72%        | +20%~-80% |
|                  | 3.6           | 10                             | 7.284           | -27.16%        | +20%~-80% |
| 2484             | 3.0           | 10                             | 6.354           | -36.46%        | +20%~-80% |
|                  | 3.3           | 10                             | 6.412           | -35.88%        | +20%~-80% |
|                  | 3.6           | 10                             | 6.401           | -35.99%        | +20%~-80% |
| Conclusion: PASS |               |                                |                 |                |           |

11g

| Frequency (MHz)  | Voltage (VDC) | Declared Output Power (mW/MHz) | Result (mW/MHz) | Tolerances (%) | Limit (%) |
|------------------|---------------|--------------------------------|-----------------|----------------|-----------|
| 2412             | 3.0           | 10                             | 3.912           | -60.88%        | +20%~-80% |
|                  | 3.3           | 10                             | 3.819           | -61.81%        | +20%~-80% |
|                  | 3.6           | 10                             | 3.784           | -62.16%        | +20%~-80% |
| 2442             | 3.0           | 10                             | 5.087           | -49.13%        | +20%~-80% |
|                  | 3.3           | 10                             | 5.117           | -48.83%        | +20%~-80% |
|                  | 3.6           | 10                             | 5.105           | -48.95%        | +20%~-80% |
| 2472             | 3.0           | 10                             | 4.681           | -53.19%        | +20%~-80% |
|                  | 3.3           | 10                             | 4.677           | -53.23%        | +20%~-80% |
|                  | 3.6           | 10                             | 4.568           | -54.32%        | +20%~-80% |
| Conclusion: PASS |               |                                |                 |                |           |

## 11nHT20

| Frequency (MHz)  | Voltage (VDC) | Declared Output Power (mW/MHz) | Result (mW/MHz) | Tolerances (%) | Limit (%) |
|------------------|---------------|--------------------------------|-----------------|----------------|-----------|
| 2412             | 3.0           | 10                             | 3.891           | -61.09%        | +20%~-80% |
|                  | 3.3           | 10                             | 3.990           | -60.10%        | +20%~-80% |
|                  | 3.6           | 10                             | 3.954           | -60.46%        | +20%~-80% |
| 2442             | 3.0           | 10                             | 5.681           | -43.19%        | +20%~-80% |
|                  | 3.3           | 10                             | 5.715           | -42.85%        | +20%~-80% |
|                  | 3.6           | 10                             | 5.614           | -43.86%        | +20%~-80% |
| 2472             | 3.0           | 10                             | 4.557           | -54.43%        | +20%~-80% |
|                  | 3.3           | 10                             | 4.775           | -52.25%        | +20%~-80% |
|                  | 3.6           | 10                             | 4.612           | -53.88%        | +20%~-80% |
| Conclusion: PASS |               |                                |                 |                |           |

## 11nHT40

| Frequency (MHz)  | Voltage (VDC) | Declared Output Power (mW/MHz) | Result (mW/MHz) | Tolerances (%) | Limit (%) |
|------------------|---------------|--------------------------------|-----------------|----------------|-----------|
| 2422             | 3.0           | 4                              | 2.255           | -43.63%        | +20%~-80% |
|                  | 3.3           | 4                              | 2.35            | -41.25%        | +20%~-80% |
|                  | 3.6           | 4                              | 2.124           | -46.90%        | +20%~-80% |
| 2442             | 3.0           | 4                              | 1.603           | -59.93%        | +20%~-80% |
|                  | 3.3           | 4                              | 1.618           | -59.55%        | +20%~-80% |
|                  | 3.6           | 4                              | 1.584           | -60.40%        | +20%~-80% |
| 2462             | 3.0           | 4                              | 2.81            | -29.75%        | +20%~-80% |
|                  | 3.3           | 4                              | 2.761           | -30.98%        | +20%~-80% |
|                  | 3.6           | 4                              | 2.554           | -36.15%        | +20%~-80% |
| Conclusion: PASS |               |                                |                 |                |           |

Note: Deviation = (Output power – Declared Output Power) / Declared Output Power \* 100%

### 3.2.4 Result

The equipment met the requirement of this clause.

### 3.3 Frequency Tolerance

#### 3.3.1 Test condition

|                      |              |
|----------------------|--------------|
| Test position:       | Transmitting |
| Ambient temperature: | 21.1 °C      |
| Relative humidity:   | 50.1 %       |
| Atmosphere Pressure: | 101.0 KPa    |

#### 3.3.2 Limit (ARIB STD-T66, Clause 3.2 (4))

Tolerance of frequency:  $\pm 50 \times 10^{-6}$ .

#### 3.3.3 Test Result

| Test Frequency (MHz) | Voltage (VDC) | Result (MHz) | Tolerance (kHz) | Tolerance (ppm) | Limit (ppm) |
|----------------------|---------------|--------------|-----------------|-----------------|-------------|
| 2412                 | 3.0           | 2411.994     | 6               | 2.48756         | $\pm 50$    |
|                      | 3.3           | 2411.995     | 5               | 2.07297         | $\pm 50$    |
|                      | 3.6           | 2411.990     | 10              | 4.14594         | $\pm 50$    |
| 2422                 | 3.0           | 2422.005     | 5               | 2.06441         | $\pm 50$    |
|                      | 3.3           | 2422.017     | 17              | 7.01899         | $\pm 50$    |
|                      | 3.6           | 2422.012     | 12              | 4.95458         | $\pm 50$    |
| 2442                 | 3.0           | 2442.001     | 1               | 0.40950         | $\pm 50$    |
|                      | 3.3           | 2442.000     | 0               | 0.00000         | $\pm 50$    |
|                      | 3.6           | 2442.000     | 0               | 0.00000         | $\pm 50$    |
| 2462                 | 3.0           | 2462.012     | 12              | 4.87409         | $\pm 50$    |
|                      | 3.3           | 2462.023     | 23              | 9.34200         | $\pm 50$    |
|                      | 3.6           | 2462.021     | 21              | 8.52965         | $\pm 50$    |
| 2472                 | 3.0           | 2472.001     | 1               | 0.40453         | $\pm 50$    |
|                      | 3.3           | 2472.002     | 2               | 0.80906         | $\pm 50$    |
|                      | 3.6           | 2472.002     | 2               | 0.80906         | $\pm 50$    |
| 2484                 | 3.0           | 2483.979     | 21              | 8.45411         | $\pm 50$    |
|                      | 3.3           | 2483.988     | 12              | 4.83092         | $\pm 50$    |
|                      | 3.6           | 2483.988     | 12              | 4.83092         | $\pm 50$    |
| Conclusion: PASS     |               |              |                 |                 |             |

#### 3.3.4 Result

The equipment met the requirement of this clause.

### 3.4 Occupied Frequency Bandwidth

#### 3.4.1 Test condition

|                      |              |
|----------------------|--------------|
| Test position:       | Transmitting |
| Ambient temperature: | 21.1 °C      |
| Relative humidity:   | 50.1 %       |
| Atmosphere Pressure: | 101.0 KPa    |

#### 3.4.2 Limit (ARIB STD-T66, Clause 3.2 (7))

Permissible value for occupied bandwidth using the FH system, a hybrid system combining DS and FH systems, or a hybrid system combining FH and OFDM systems shall be 83.5 MHz or less, while necessary bandwidth (minimum occupied bandwidth sufficient to ensure information transmission of required quality at a required transmission rate for the system used under specified conditions for a given emission type) using a system other than any of the above shall be 26 MHz or less.

#### 3.4.3 Test Result

11b

| Test Frequency (MHz) | Voltage (VDC) | Result (MHz) | Limit (MHz) |
|----------------------|---------------|--------------|-------------|
| 2412                 | 3.3           | 13.467       | <26MHz      |
| 2442                 | 3.3           | 13.387       | <26MHz      |
| 2472                 | 3.3           | 13.506       | <26MHz      |
| 2484                 | 3.3           | 19.900       | <26MHz      |

11g

| Test Frequency (MHz) | Voltage (VDC) | Result (MHz) | Limit (MHz) |
|----------------------|---------------|--------------|-------------|
| 2412                 | 3.3           | 16.464       | <26MHz      |
| 2442                 | 3.3           | 16.464       | <26MHz      |
| 2472                 | 3.3           | 16.464       | <26MHz      |

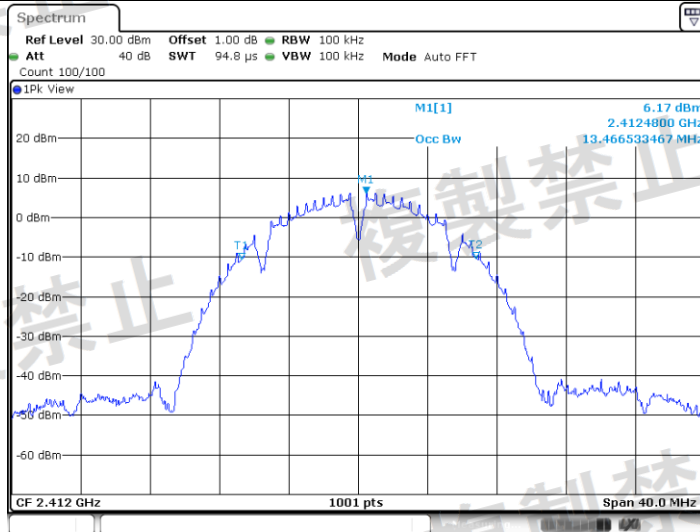
11nHT20

| Test Frequency (MHz) | Voltage (VDC) | Result (MHz) | Limit (MHz) |
|----------------------|---------------|--------------|-------------|
| 2412                 | 3.3           | 16.464       | <26MHz      |
| 2442                 | 3.3           | 16.464       | <26MHz      |
| 2472                 | 3.3           | 16.464       | <26MHz      |

11nHT40

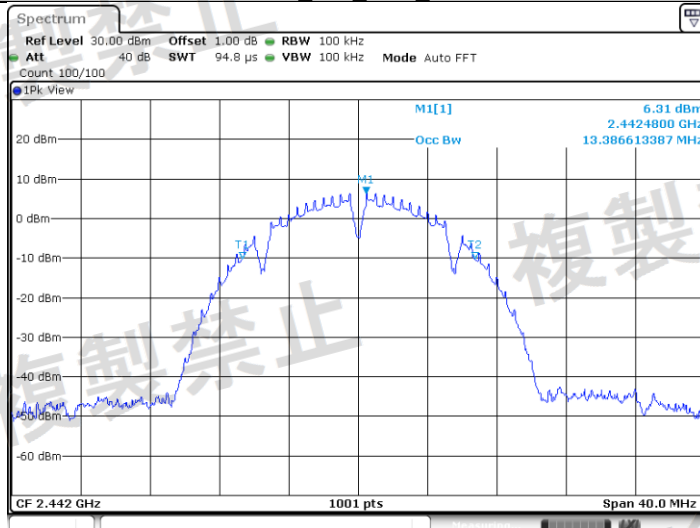
| Test Frequency (MHz) | Voltage (VDC) | Result (MHz) | Limit (MHz) |
|----------------------|---------------|--------------|-------------|
| 2422                 | 3.3           | 35.964       | <38MHz      |
| 2442                 | 3.3           | 36.044       | <38MHz      |
| 2462                 | 3.3           | 36.044       | <38MHz      |

## NTNV\_11B\_Ant1\_2412



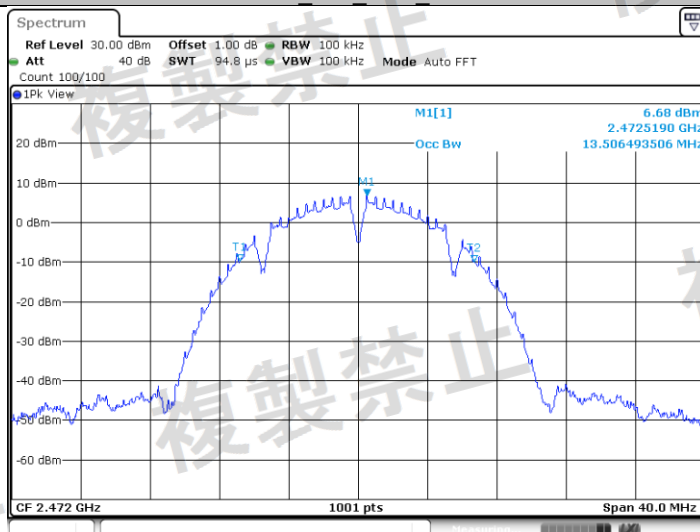
Date: 12.OCT.2021 10:25:43

## NTNV\_11B\_Ant1\_2442



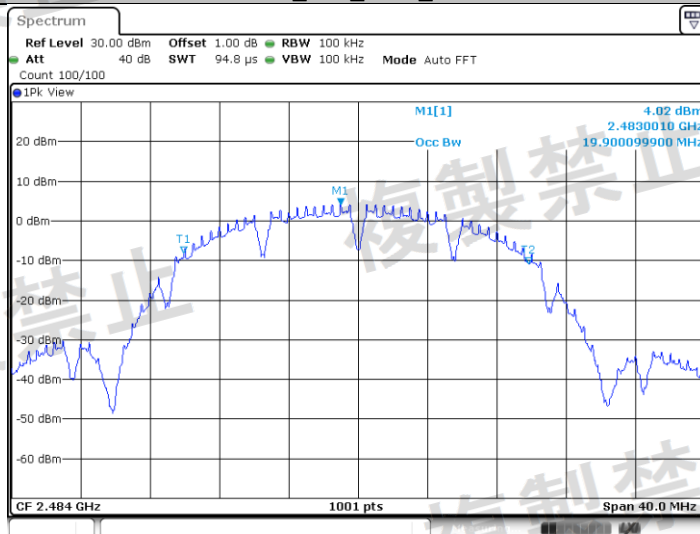
Date: 12.OCT.2021 11:17:24

## NTNV\_11B\_Ant1\_2472



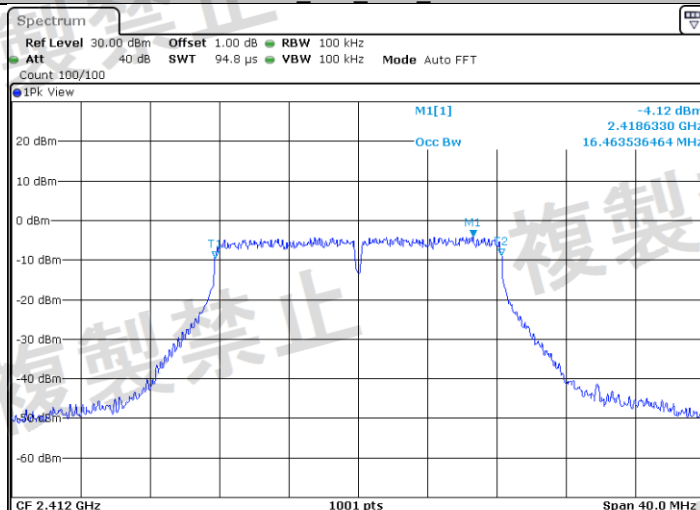
Date: 12.OCT.2021 10:48:58

## NTNV\_11B\_Ant1\_2484



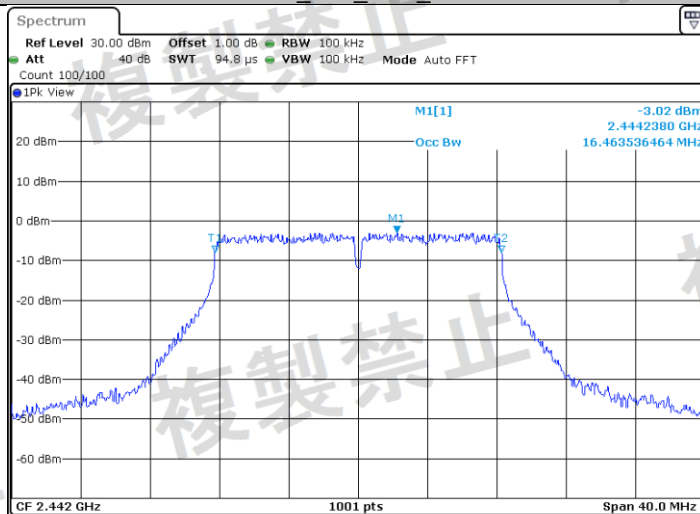
Date: 13.OCT.2021 11:50:35

## NTNV\_11G\_Ant1\_2412



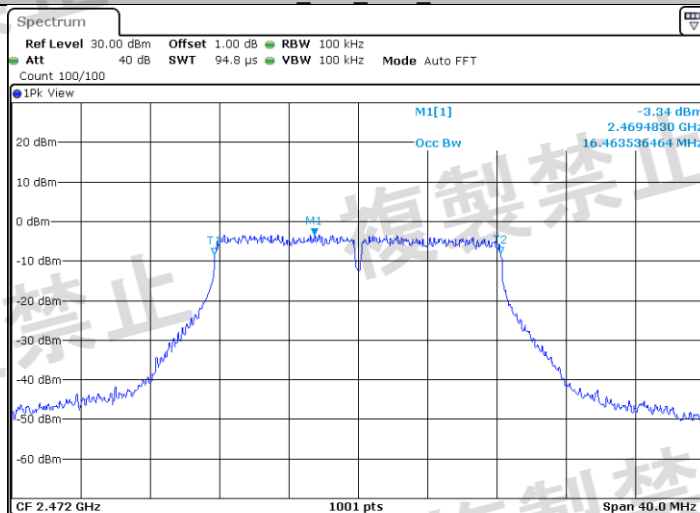
Date: 12.OCT.2021 10:45:33

## NTNV\_11G\_Ant1\_2442



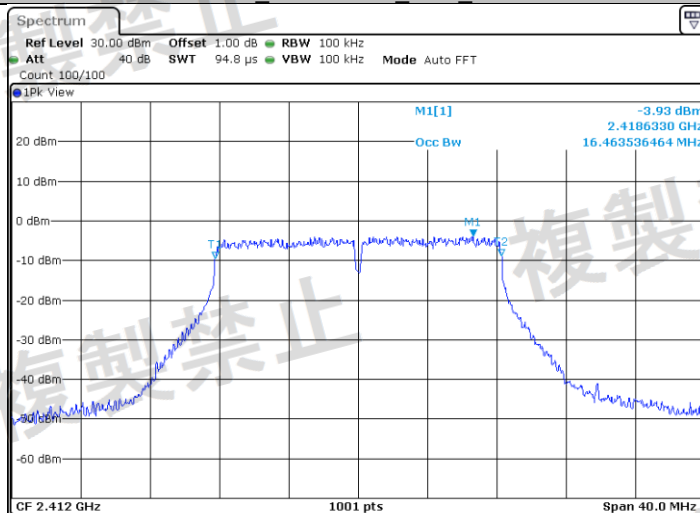
Date: 12.OCT.2021 10:40:58

## NTNV\_11G\_Ant1\_2472



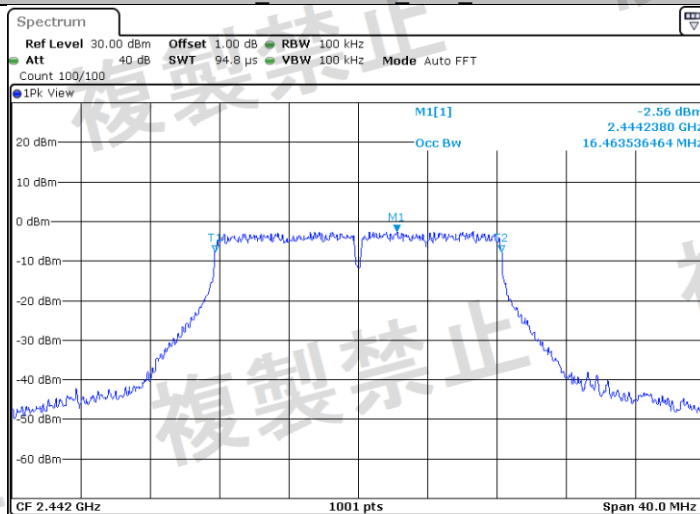
Date: 12.OCT.2021 10:38:50

## NTNV\_11N20SISO\_Ant1\_2412

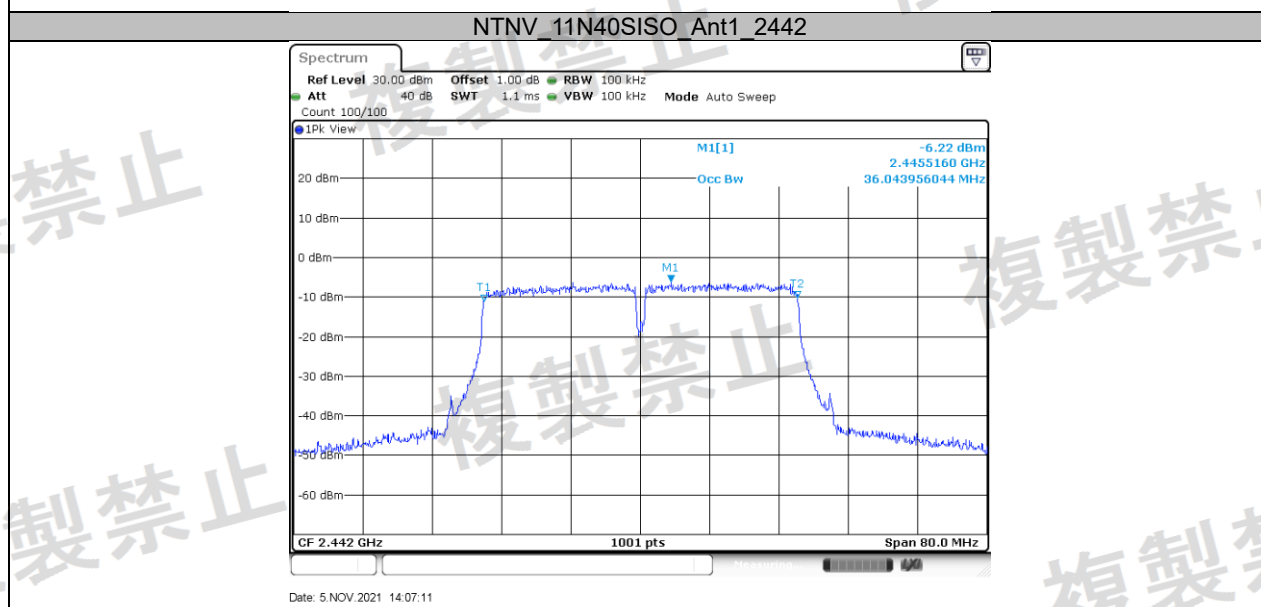
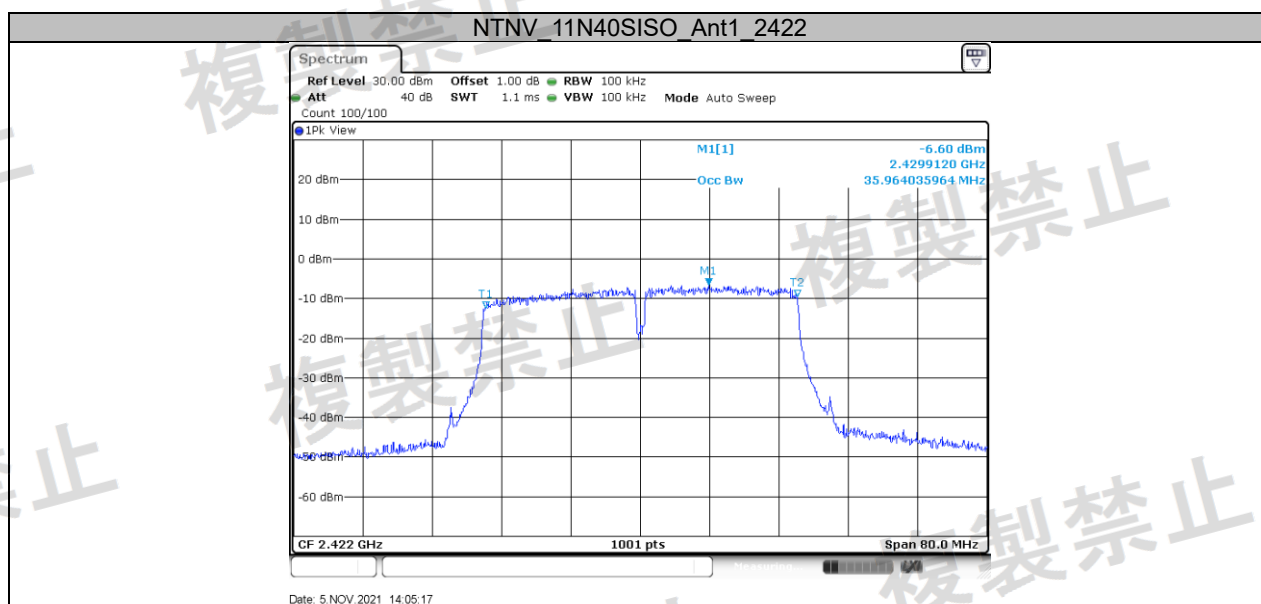
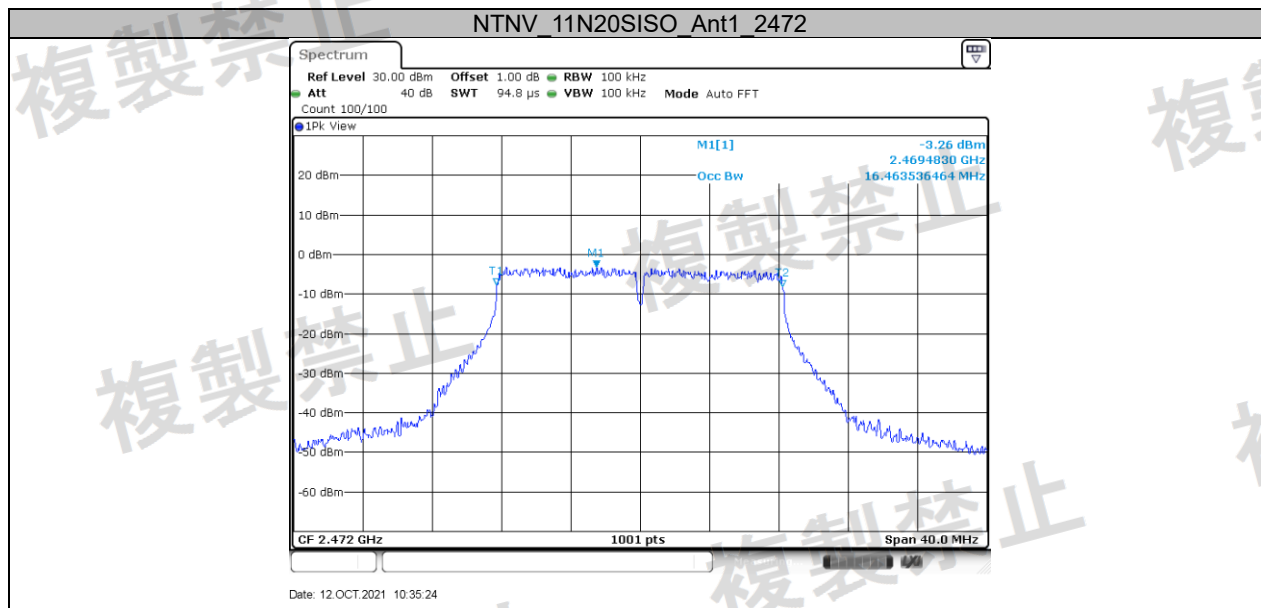


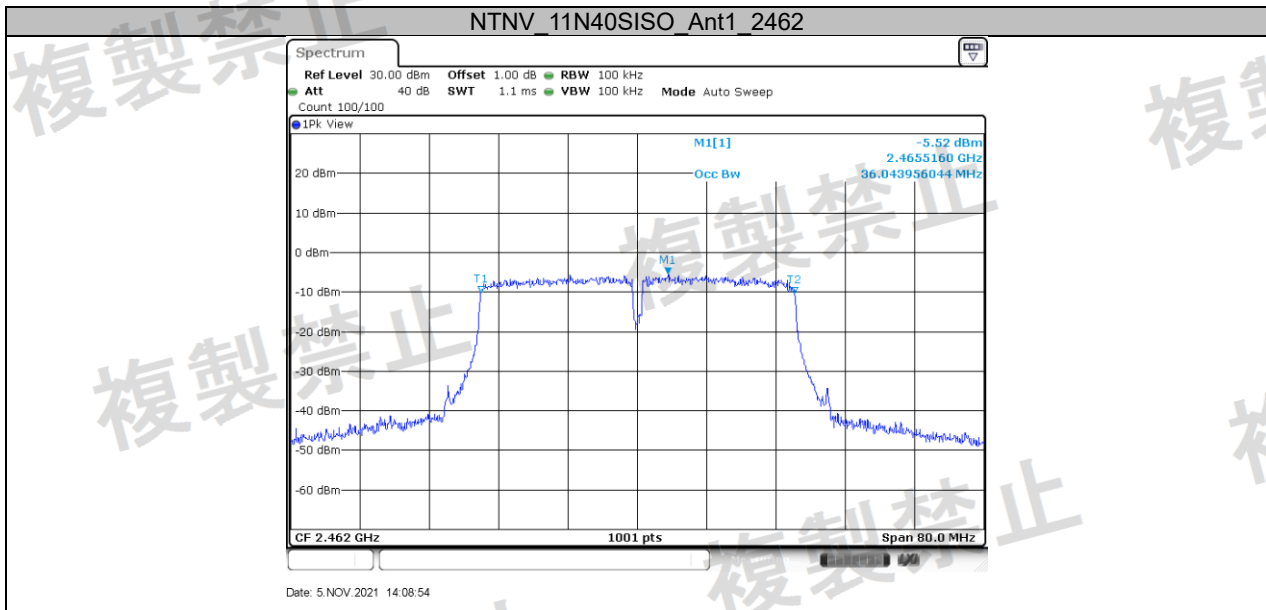
Date: 12.OCT.2021 10:33:36

## NTNV\_11N20SISO\_Ant1\_2442



Date: 12.OCT.2021 10:31:30





### 3.4.4 Result

The equipment met the requirement of this clause.

### 3.5 Spread Bandwidth

#### 3.5.1 Test condition

|                      |              |
|----------------------|--------------|
| Test position:       | Transmitting |
| Ambient temperature: | 21.1 °C      |
| Relative humidity:   | 50.1 %       |
| Atmosphere Pressure: | 101.0 KPa    |

#### 3.5.2 Limit (ARIB STD-T66, Clause 3.2 (8))

In spread spectrum systems, spread bandwidth (which refers to a frequency bandwidth with an upper limit and lower limit such that each of the mean powers radiated above the upper frequency limit and below the lower frequency limit is equal to 5 % of the total mean power radiated; this also applies hereafter) shall be 500 kHz or more

#### 3.5.3 Test Result

11b

| Test Frequency (MHz) | Voltage (VDC) | Result (MHz) | Limit (kHz) |
|----------------------|---------------|--------------|-------------|
| 2412                 | 3.3           | 8.751        | >500        |
| 2442                 | 3.3           | 8.711        | >500        |
| 2472                 | 3.3           | 8.791        | >500        |
| 2484                 | 3.3           | 14.505       | >500        |

11g

| Test Frequency (MHz) | Voltage (VDC) | Result (MHz) | Limit (kHz) |
|----------------------|---------------|--------------|-------------|
| 2412                 | 3.3           | 14.905       | >500        |
| 2442                 | 3.3           | 14.905       | >500        |
| 2472                 | 3.3           | 14.865       | >500        |

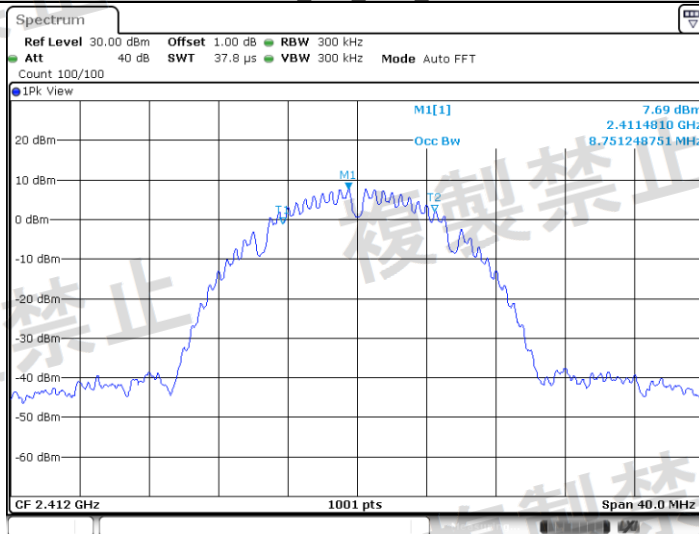
11nHT20

| Test Frequency (MHz) | Voltage (VDC) | Result (MHz) | Limit (kHz) |
|----------------------|---------------|--------------|-------------|
| 2412                 | 3.3           | 14.825       | >500        |
| 2442                 | 3.3           | 14.745       | >500        |
| 2472                 | 3.3           | 14.905       | >500        |

11nHT40

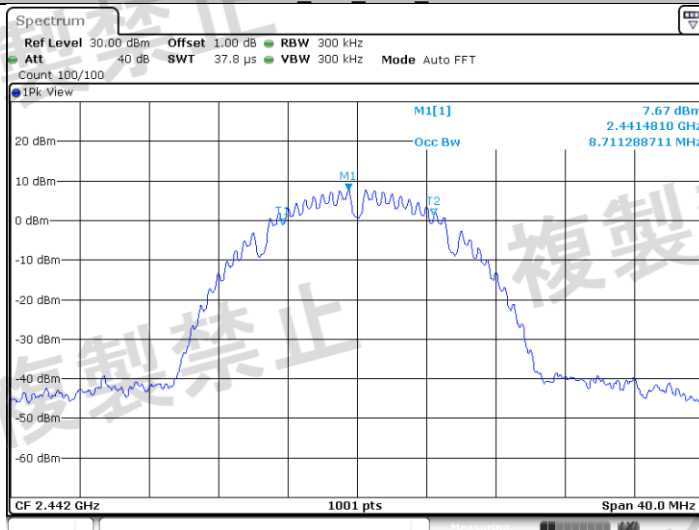
| Test Frequency (MHz) | Voltage (VDC) | Result (MHz) | Limit (kHz) |
|----------------------|---------------|--------------|-------------|
| 2422                 | 3.3           | 31.489       | >500        |
| 2442                 | 3.3           | 32.208       | >500        |
| 2462                 | 3.3           | 31.888       | >500        |

## NTNV\_11B\_Ant1\_2412



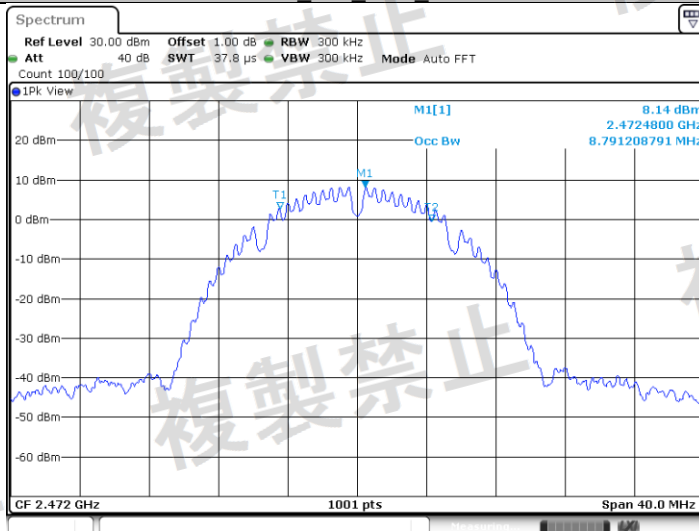
Date: 12.OCT.2021 10:25:55

## NTNV\_11B\_Ant1\_2442



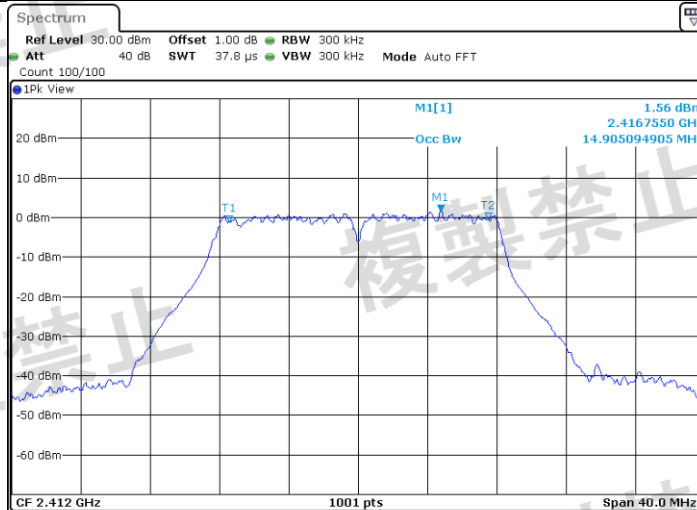
Date: 12.OCT.2021 11:17:35

## NTNV\_11B\_Ant1\_2472



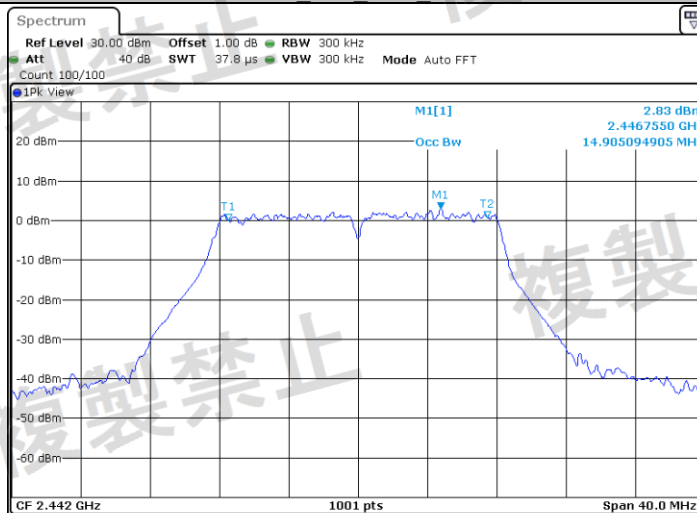
Date: 12.OCT.2021 10:49:10

## NTNV\_11G\_Ant1\_2412



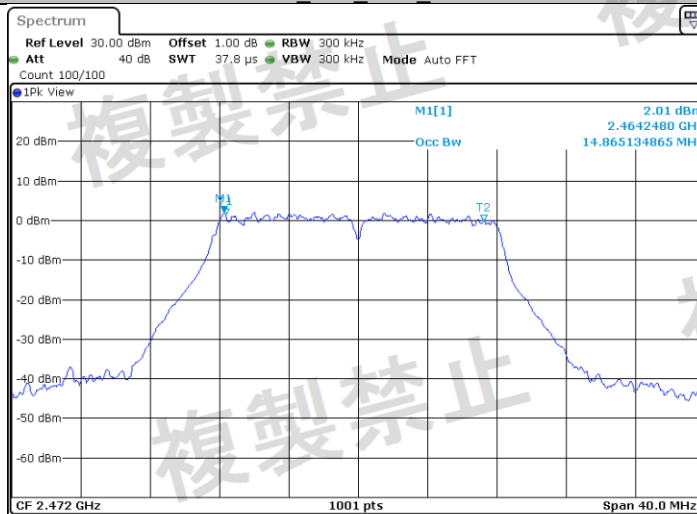
Date: 12.OCT.2021 10:45:44

## NTNV\_11G\_Ant1\_2442



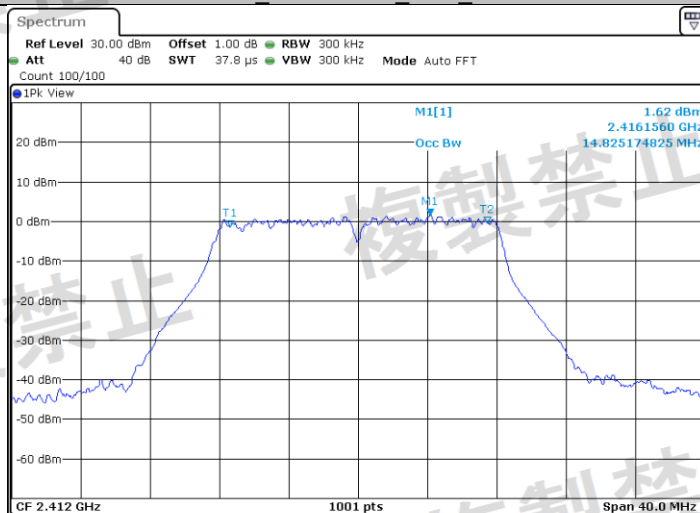
Date: 12.OCT.2021 10:41:09

## NTNV\_11G\_Ant1\_2472



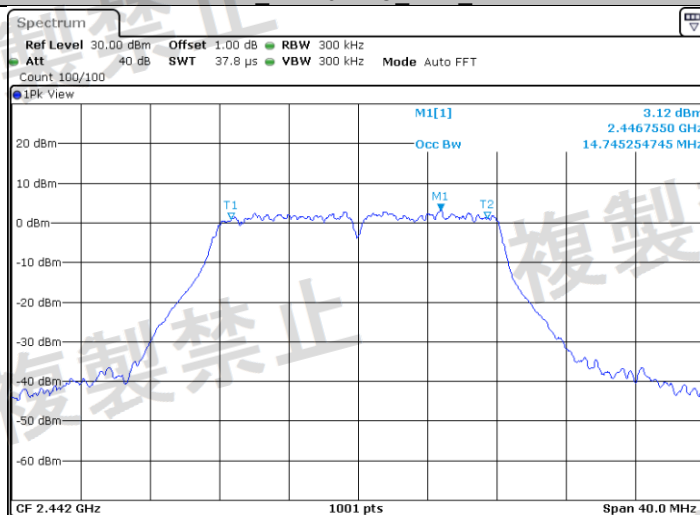
Date: 12.OCT.2021 10:39:01

## NTNV\_11N20SISO\_Ant1\_2412



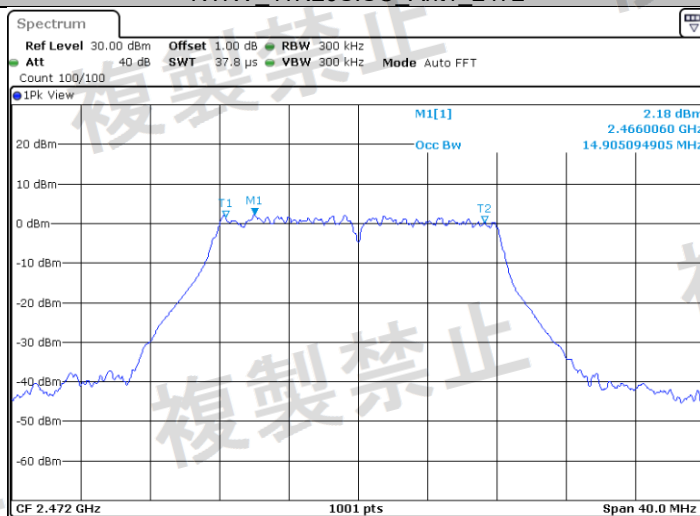
Date: 12.OCT.2021 10:33:47

## NTNV\_11N20SISO\_Ant1\_2442



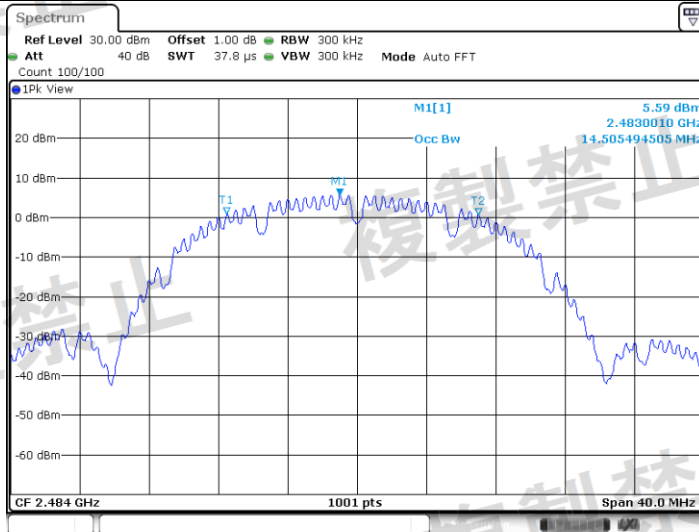
Date: 12.OCT.2021 10:31:42

## NTNV\_11N20SISO\_Ant1\_2472



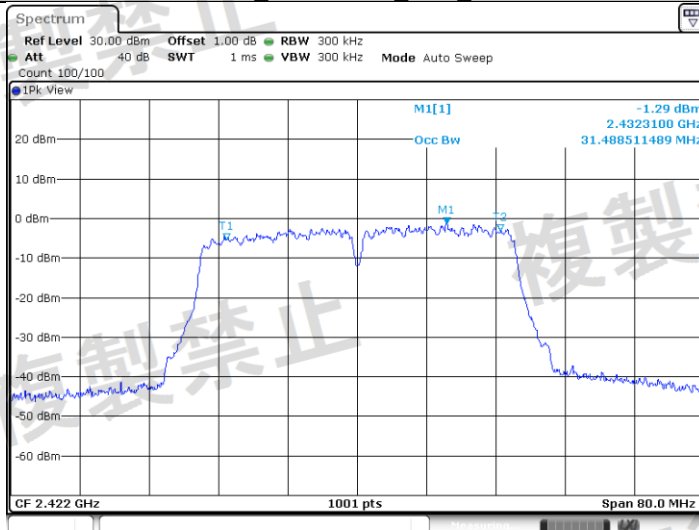
Date: 12.OCT.2021 10:35:36

## NTNV 11B Ant1 2484



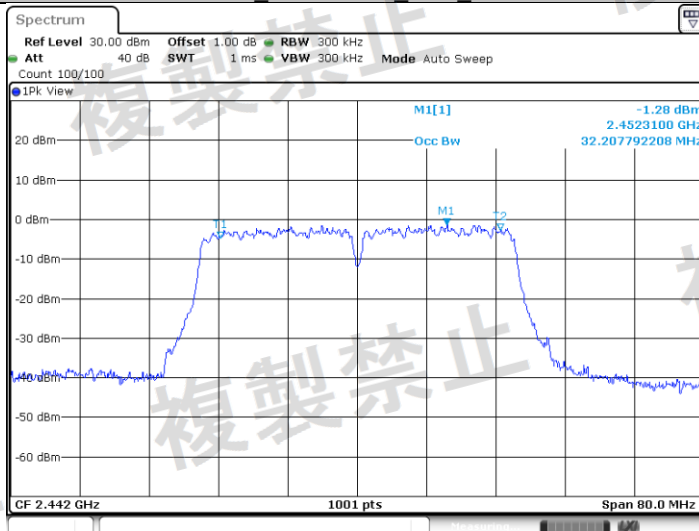
Date: 13.OCT.2021 11:50:46

## NTNV 11N40SISO Ant1 2422

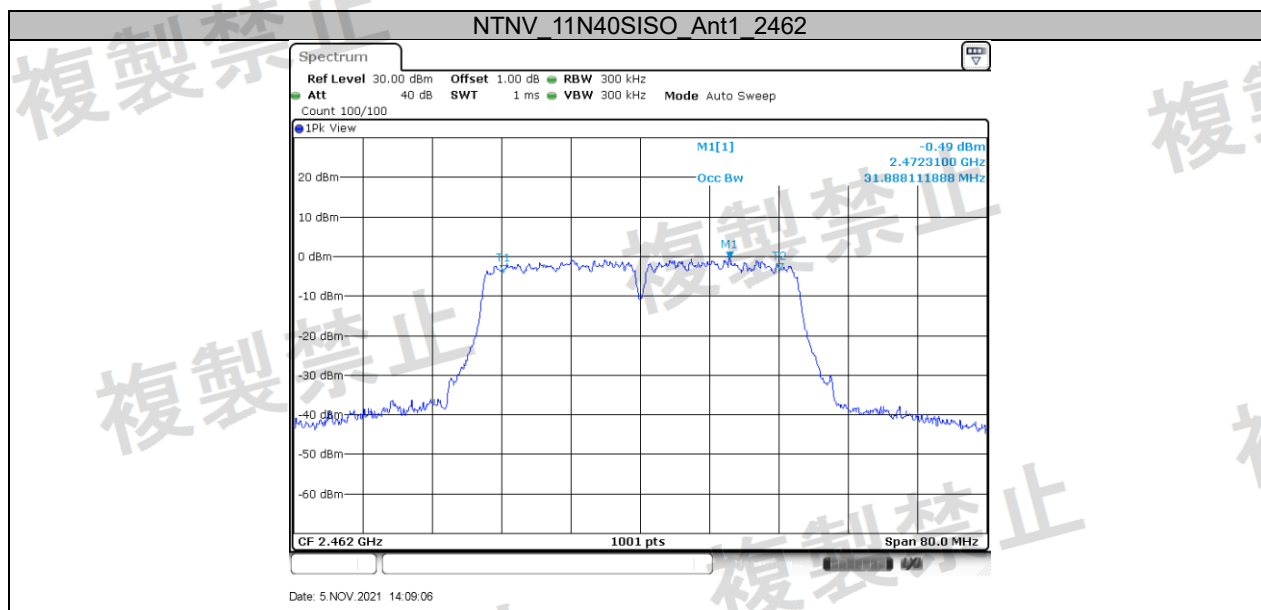


Date: 5.NOV.2021 14:05:29

## NTNV 11N40SISO Ant1 2442



Date: 5.NOV.2021 14:07:22



### 3.5.4 Result

The equipment met the requirement of this clause

### 3.6 Process Gain & Transmission Rate

#### 3.6.1 Test condition

|                      |              |
|----------------------|--------------|
| Test position:       | Transmitting |
| Ambient temperature: | 21.1 °C      |
| Relative humidity:   | 50.1 %       |
| Atmosphere Pressure: | 101.0 KPa    |

#### 3.6.2 Limit (ARIB STD-T66, Clause 3.2 (9))

Process gain (value obtained by dividing the spread bandwidth by a frequency equal to the transmission rate of the modulation signal; this also applies hereafter) in the spread spectrum system shall be 5 or more.

#### 3.6.3 Test Result

| Modulation | Channel | Voltage (VDC) | Spread Bandwidth (MHz) | Symbol rate (Mbps) | Result | Limit |
|------------|---------|---------------|------------------------|--------------------|--------|-------|
| 11b        | 2412    | 3.3           | 8.751                  | 1.375              | 6.36   | ≥5    |
|            | 2442    | 3.3           | 8.711                  | 1.375              | 6.34   | ≥5    |
|            | 2472    | 3.3           | 8.791                  | 1.375              | 6.39   | ≥5    |
|            | 2484    | 3.3           | 14.505                 | 1.375              | 10.55  |       |
| 11g        | 2412    | 3.3           | 14.905                 | 1.5                | 9.94   | ≥5    |
|            | 2442    | 3.3           | 14.905                 | 1.5                | 9.94   | ≥5    |
|            | 2472    | 3.3           | 14.865                 | 1.5                | 9.91   | ≥5    |
| 11nHT20    | 2412    | 3.3           | 14.825                 | 1.5                | 9.88   | ≥5    |
|            | 2442    | 3.3           | 14.745                 | 1.5                | 9.83   | ≥5    |
|            | 2472    | 3.3           | 14.905                 | 1.5                | 9.94   | ≥5    |
| 11nHT40    | 2422    | 3.3           | 31.489                 | 3                  | 10.50  | ≥5    |
|            | 2442    | 3.3           | 32.208                 | 3                  | 10.74  | ≥5    |
|            | 2462    | 3.3           | 31.888                 | 3                  | 10.63  | ≥5    |

The equipment met the requirement of this clause.

### 3.7 Transmitter Spurious Emissions (Conducted) (For transmitter)

#### 3.7.1 Test condition

|                      |              |
|----------------------|--------------|
| Test position:       | Transmitting |
| Ambient temperature: | 21.1 °C      |
| Relative humidity:   | 50.1 %       |
| Atmosphere Pressure: | 101.0 KPa    |

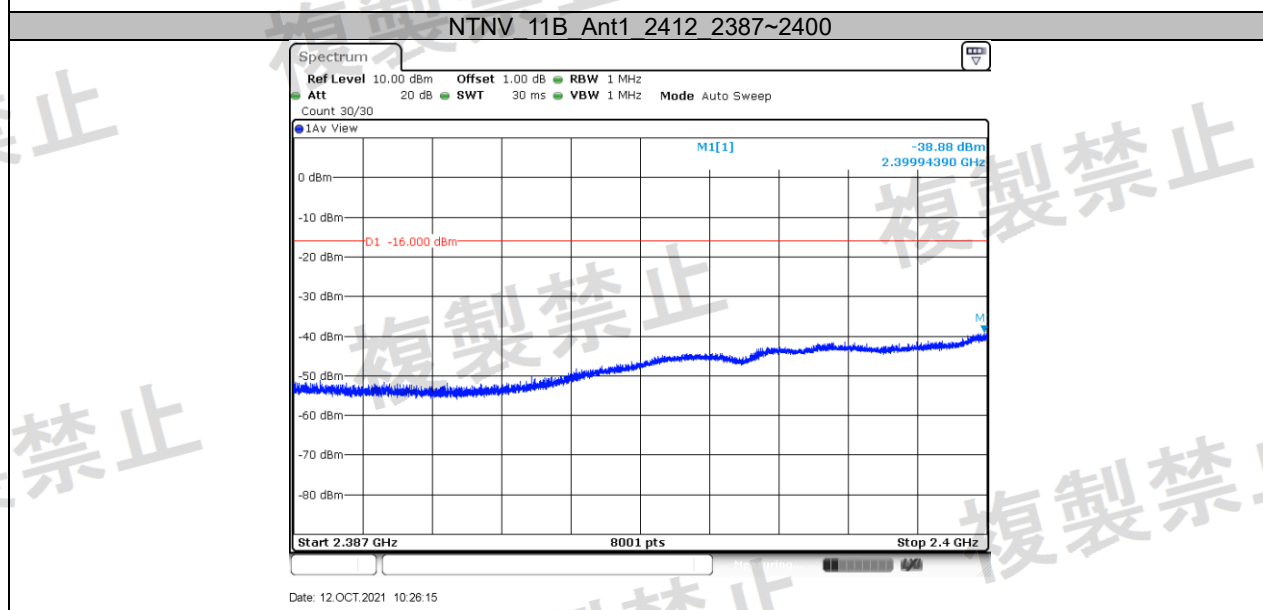
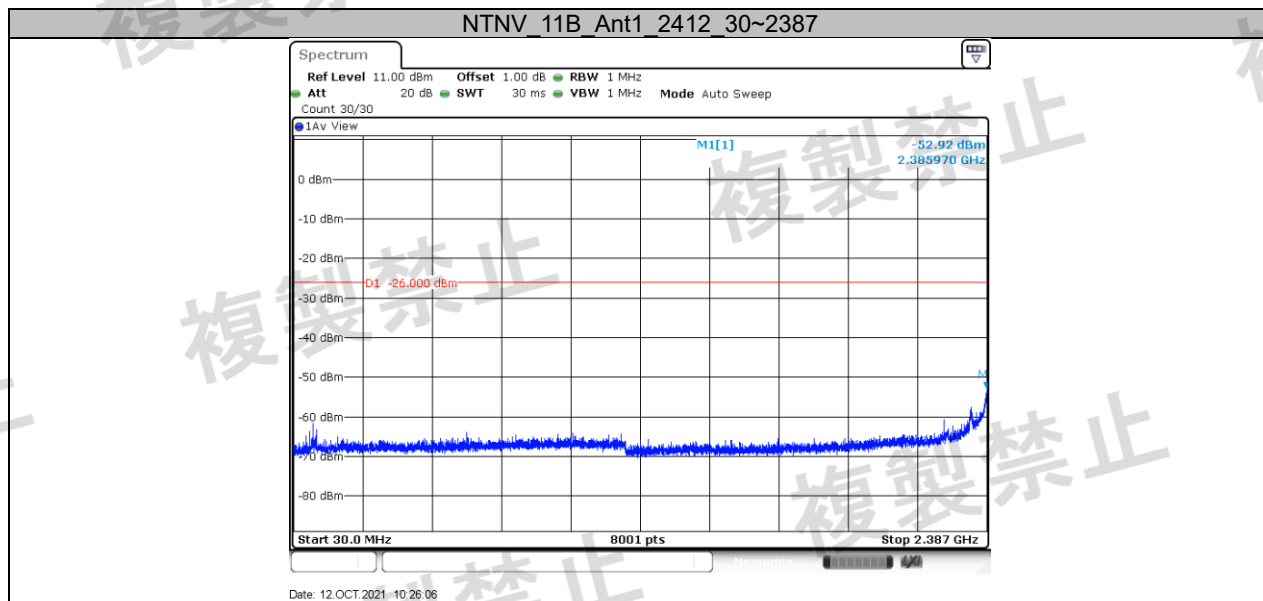
#### 3.7.2 Limit (ARIB STD-T66, Clause 3.2 (6))

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency  $f$  other than frequency band used shall be as follows: a.  $2,387\text{MHz} \leq f \leq 2,400\text{MHz}$  and  $2,483.5\text{MHz} < f \leq 2,496.5\text{MHz}$  25  $\mu\text{W}$  or less b.  $2,387\text{MHz} > f$  and  $2,496.5\text{MHz} < f$  2.5  $\mu\text{W}$  or less.

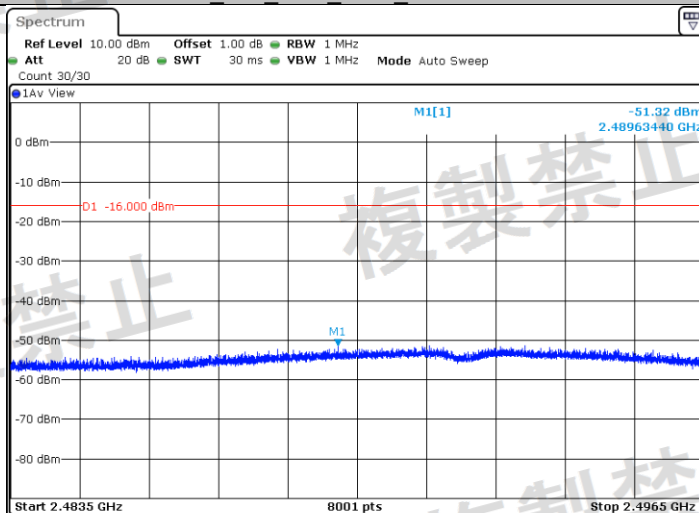
#### 3.7.3 Test Result

| TestCondition | TestMode  | Antenna | Channel | Freq.Range    | Result | Limit      | Verdict |
|---------------|-----------|---------|---------|---------------|--------|------------|---------|
| NTNV          | 11B       | Ant1    | 2412    | 30~2387       | -52.92 | $\leq -26$ | PASS    |
|               |           |         |         | 2387~2400     | -38.88 | $\leq -16$ | PASS    |
|               |           |         |         | 2483.5~2496.5 | -51.32 | $\leq -16$ | PASS    |
|               |           |         |         | 2496.5~13000  | -45.15 | $\leq -26$ | PASS    |
|               |           |         | 2442    | 30~2387       | -56.79 | $\leq -26$ | PASS    |
|               |           |         |         | 2387~2400     | -48.86 | $\leq -16$ | PASS    |
|               |           |         |         | 2483.5~2496.5 | -53.09 | $\leq -16$ | PASS    |
|               |           |         |         | 2496.5~13000  | -46.53 | $\leq -26$ | PASS    |
|               |           |         | 2472    | 30~2387       | -53.24 | $\leq -26$ | PASS    |
|               |           |         |         | 2387~2400     | -49.72 | $\leq -16$ | PASS    |
|               |           |         |         | 2483.5~2496.5 | -37.78 | $\leq -16$ | PASS    |
|               |           |         |         | 2496.5~13000  | -44.83 | $\leq -26$ | PASS    |
|               | 11G       | Ant1    | 2412    | 30~2387       | -53.71 | $\leq -26$ | PASS    |
|               |           |         |         | 2387~2400     | -34.25 | $\leq -16$ | PASS    |
|               |           |         |         | 2483.5~2496.5 | -53.1  | $\leq -16$ | PASS    |
|               |           |         |         | 2496.5~13000  | -53.65 | $\leq -26$ | PASS    |
|               |           |         | 2442    | 30~2387       | -52.64 | $\leq -26$ | PASS    |
|               |           |         |         | 2387~2400     | -49.03 | $\leq -16$ | PASS    |
|               |           |         |         | 2483.5~2496.5 | -53.7  | $\leq -16$ | PASS    |
|               |           |         |         | 2496.5~13000  | -54.75 | $\leq -26$ | PASS    |
|               |           |         | 2472    | 30~2387       | -53.89 | $\leq -26$ | PASS    |
|               |           |         |         | 2387~2400     | -49.04 | $\leq -16$ | PASS    |
|               |           |         |         | 2483.5~2496.5 | -33.28 | $\leq -16$ | PASS    |
|               |           |         |         | 2496.5~13000  | -53.12 | $\leq -26$ | PASS    |
|               | 11N20SISO | Ant1    | 2412    | 30~2387       | -53.55 | $\leq -26$ | PASS    |
|               |           |         |         | 2387~2400     | -33.62 | $\leq -16$ | PASS    |
|               |           |         |         | 2483.5~2496.5 | -53.13 | $\leq -16$ | PASS    |
|               |           |         |         | 2496.5~13000  | -54.71 | $\leq -26$ | PASS    |
|               |           |         | 2442    | 30~2387       | -53.29 | $\leq -26$ | PASS    |
|               |           |         |         | 2387~2400     | -48.98 | $\leq -16$ | PASS    |
|               |           |         |         | 2483.5~2496.5 | -53.75 | $\leq -16$ | PASS    |
|               |           |         |         | 2496.5~13000  | -53.72 | $\leq -26$ | PASS    |
|               |           |         | 2472    | 30~2387       | -53.47 | $\leq -26$ | PASS    |
|               |           |         |         | 2387~2400     | -48.75 | $\leq -16$ | PASS    |
|               |           |         |         | 2483.5~2496.5 | -33.35 | $\leq -16$ | PASS    |
|               |           |         |         | 2496.5~13000  | -52.99 | $\leq -26$ | PASS    |
|               | 11B       | Ant1    | 2484    | 30~2458       | -42.31 | $\leq -26$ | PASS    |
|               |           |         |         | 2458~2471     | -19.96 | $\leq -16$ | PASS    |
|               |           |         |         | 2497~2510     | -21.4  | $\leq -16$ | PASS    |
|               |           |         |         | 2510~13000    | -45.4  | $\leq -26$ | PASS    |

| TestCondition | TestMode  | Antenna | Channel | Freq.Range    | Result | Limit | Verdict |
|---------------|-----------|---------|---------|---------------|--------|-------|---------|
| NTNV          | 11N40SiSO | Ant1    | 2422    | 30~2387       | -52.59 | <=-26 | PASS    |
|               |           |         |         | 2387~2400     | -36.35 | <=-16 | PASS    |
|               |           |         |         | 2483.5~2496.5 | -52.32 | <=-16 | PASS    |
|               |           |         |         | 2496.5~13000  | -53.81 | <=-26 | PASS    |
|               |           |         | 2442    | 30~2387       | -57.96 | <=-26 | PASS    |
|               |           |         |         | 2387~2400     | -47.68 | <=-16 | PASS    |
|               |           |         |         | 2483.5~2496.5 | -46.62 | <=-16 | PASS    |
|               |           |         |         | 2496.5~13000  | -53.01 | <=-26 | PASS    |
|               |           |         | 2462    | 30~2387       | -60.14 | <=-26 | PASS    |
|               |           |         |         | 2387~2400     | -51.23 | <=-16 | PASS    |
|               |           |         |         | 2483.5~2496.5 | -30.32 | <=-16 | PASS    |
|               |           |         |         | 2496.5~13000  | -43.53 | <=-26 | PASS    |

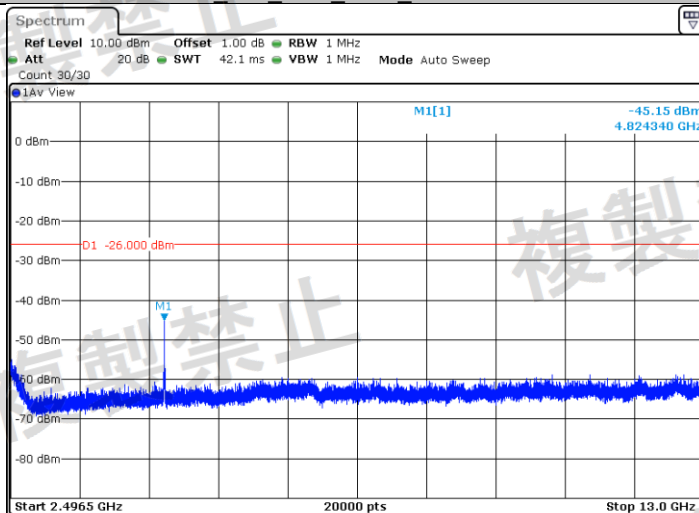


## NTNV\_11B\_Ant1\_2412\_2483.5~2496.5



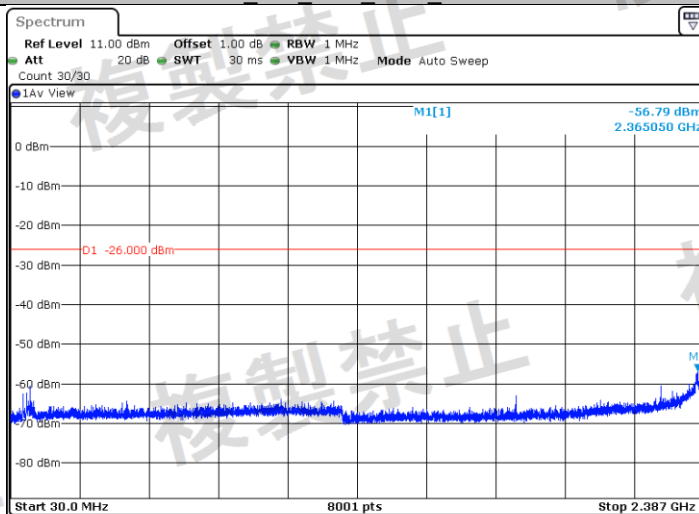
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## NTNV\_11B\_Ant1\_2412\_2496.5~13000



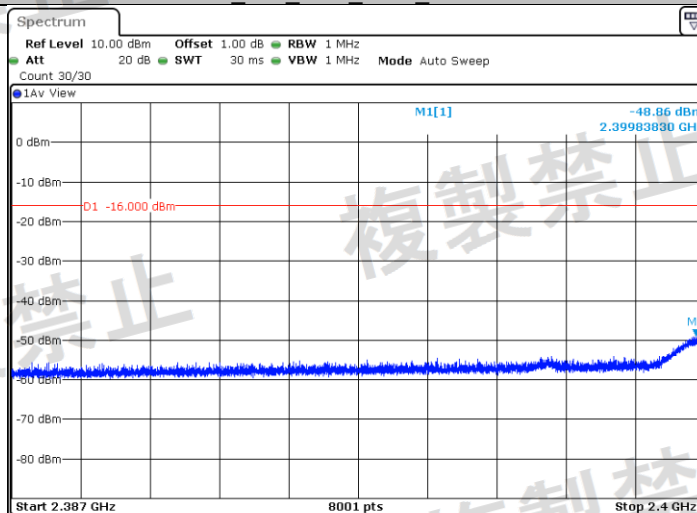
Date: 12.OCT.2021 10:26:37

## NTNV\_11B\_Ant1\_2442\_30~2387



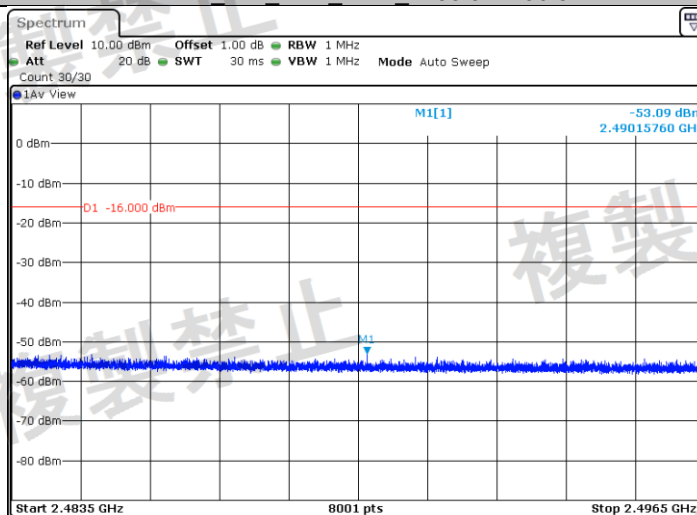
Date: 12.OCT.2021 11:17:46

## NTNV\_11B\_Ant1\_2442\_2387~2400



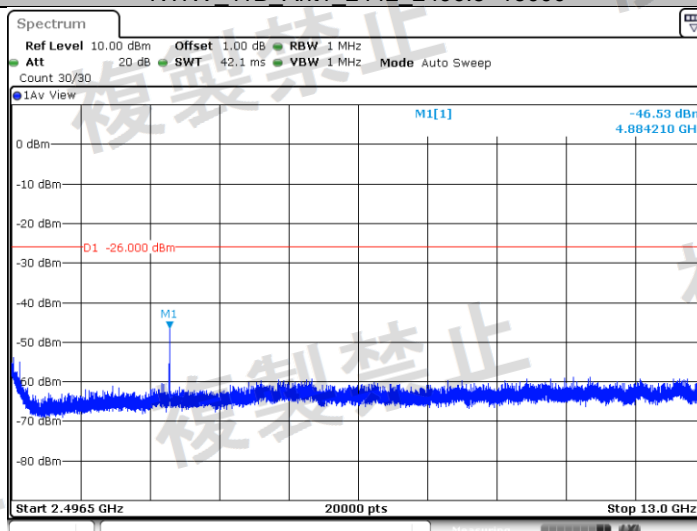
Date: 12.OCT.2021 11:17:55

## NTNV\_11B\_Ant1\_2442\_2483.5~2496.5



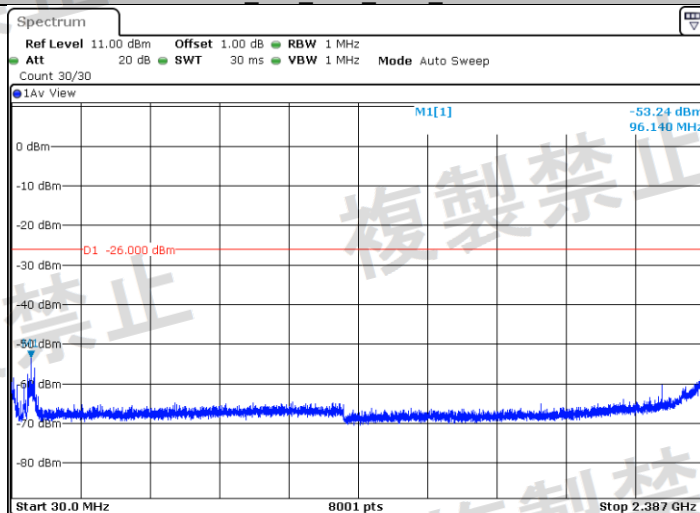
Date: 12.OCT.2021 11:18:07

## NTNV\_11B\_Ant1\_2442\_2496.5~13000



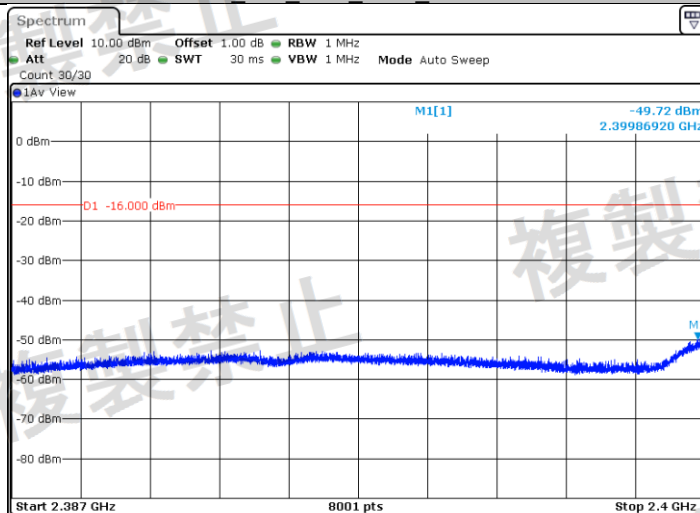
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## NTNV\_11B\_Ant1\_2472\_30~2387



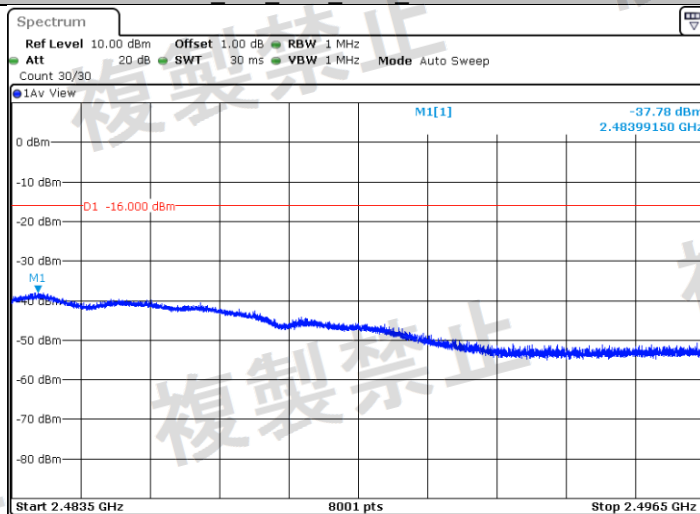
Date: 12.OCT.2021 10:49:20

## NTNV\_11B\_Ant1\_2472\_2387~2400



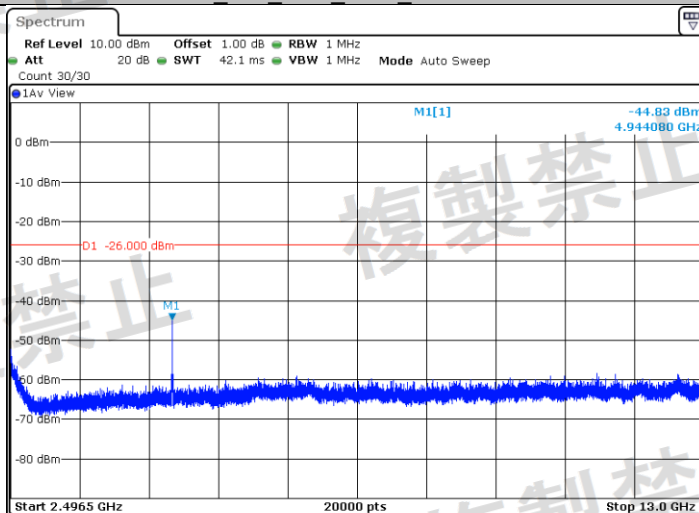
Date: 12.OCT.2021 10:49:30

## NTNV\_11B\_Ant1\_2472\_2483.5~2496.5



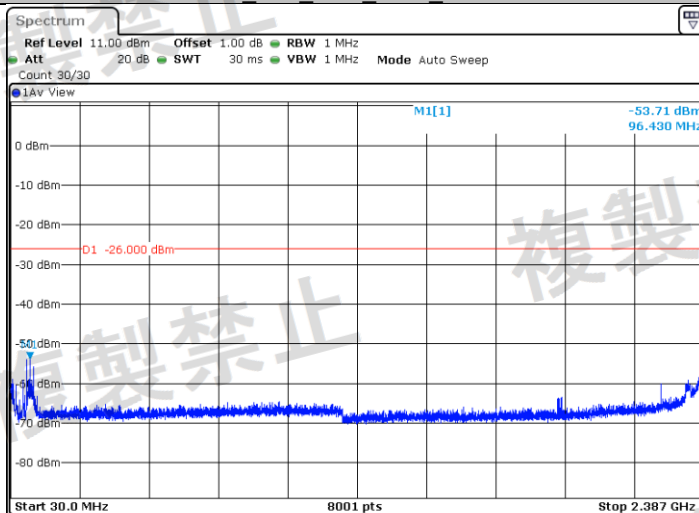
Date: 12.OCT.2021 10:49:41

## NTNV\_11B\_Ant1\_2472\_2496.5~13000



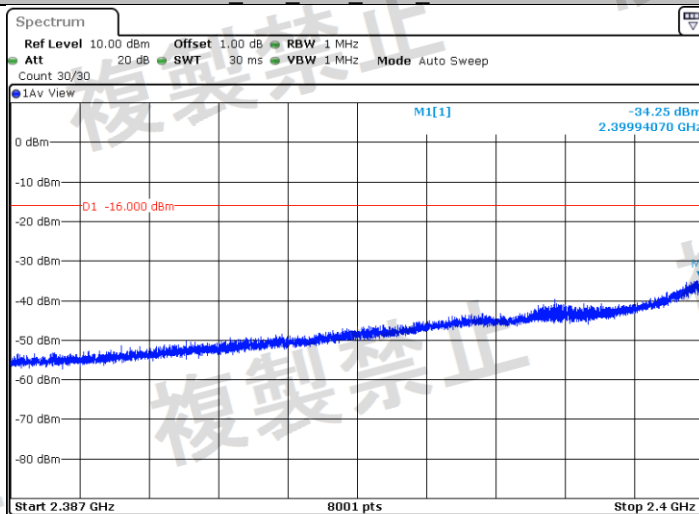
Date: 12.OCT.2021 10:49:51

## NTNV\_11G\_Ant1\_2412\_30~2387



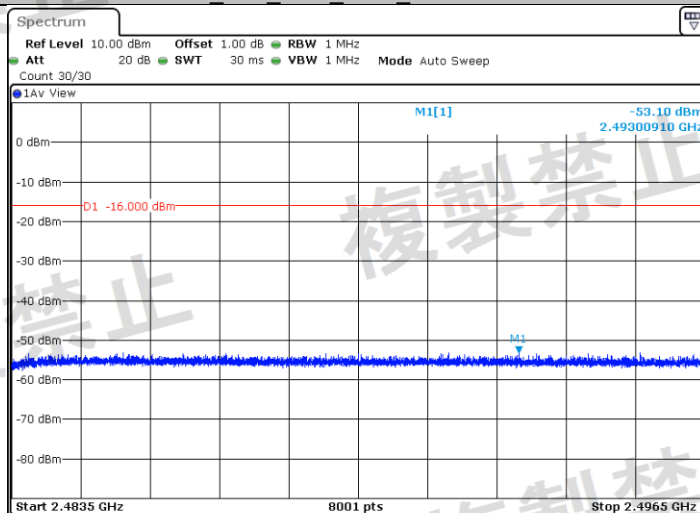
Date: 12.OCT.2021 10:45:55

## NTNV\_11G\_Ant1\_2412\_2387~2400



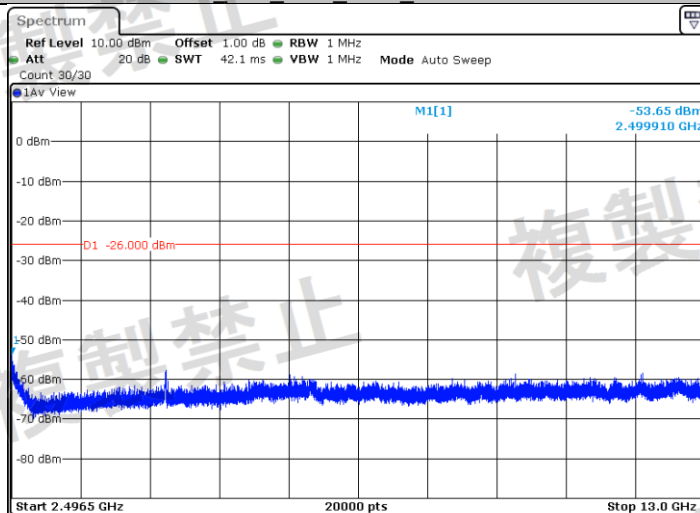
Date: 12.OCT.2021 10:46:05

## NTNV\_11G\_Ant1\_2412\_2483.5~2496.5



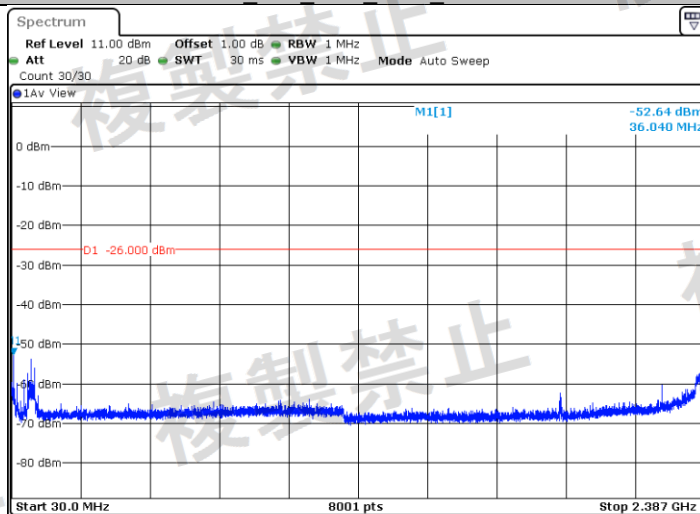
Date: 12.OCT.2021 10:46:16

## NTNV\_11G\_Ant1\_2412\_2496.5~13000



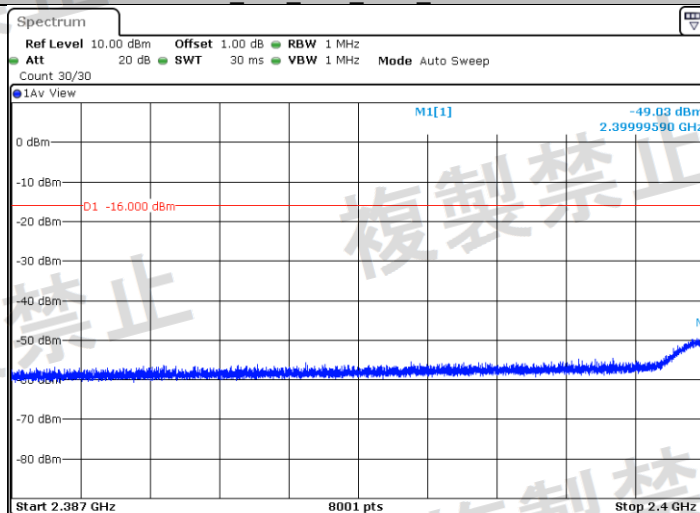
Date: 12.OCT.2021 10:46:26

## NTNV\_11G\_Ant1\_2442\_30~2387



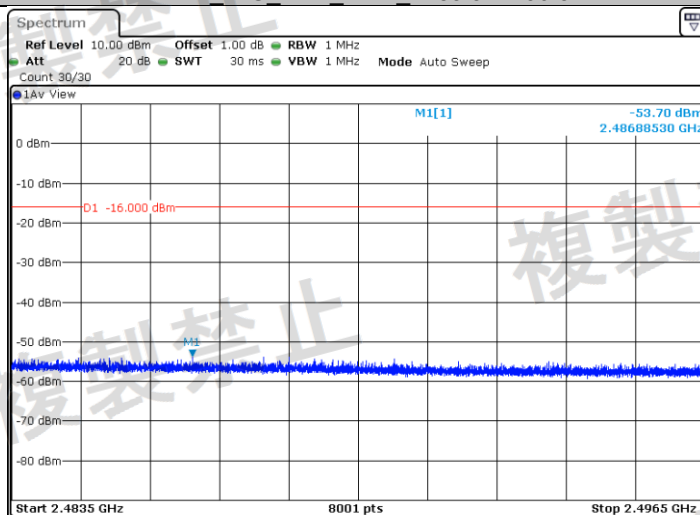
Date: 12.OCT.2021 10:41:20

## NTNV\_11G\_Ant1\_2442\_2387~2400



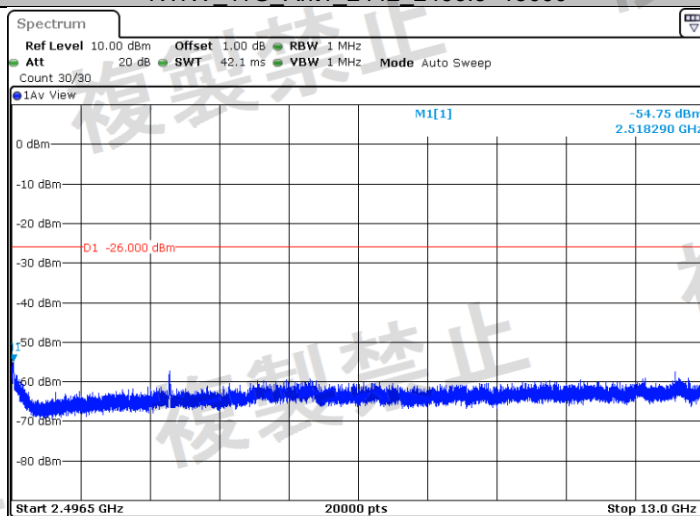
Date: 12.OCT.2021 10:41:29

## NTNV\_11G\_Ant1\_2442\_2483.5~2496.5



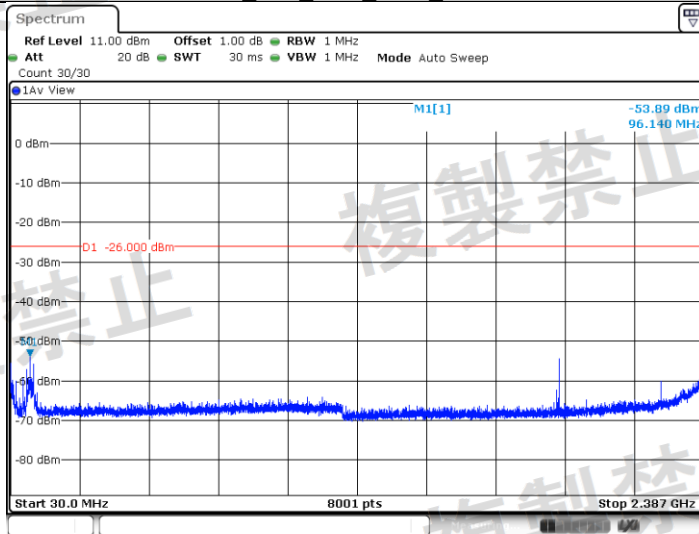
Date: 12.OCT.2021 10:41:41

## NTNV\_11G\_Ant1\_2442\_2496.5~13000



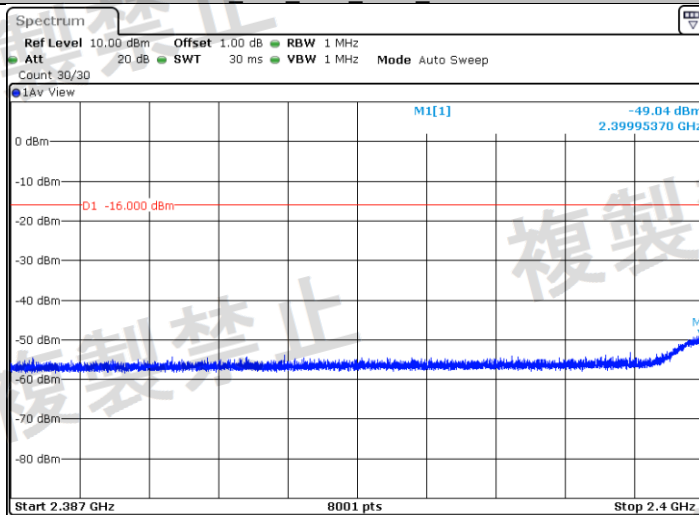
Date: 12.OCT.2021 10:41:51

## NTNV\_11G\_Ant1\_2472\_30~2387



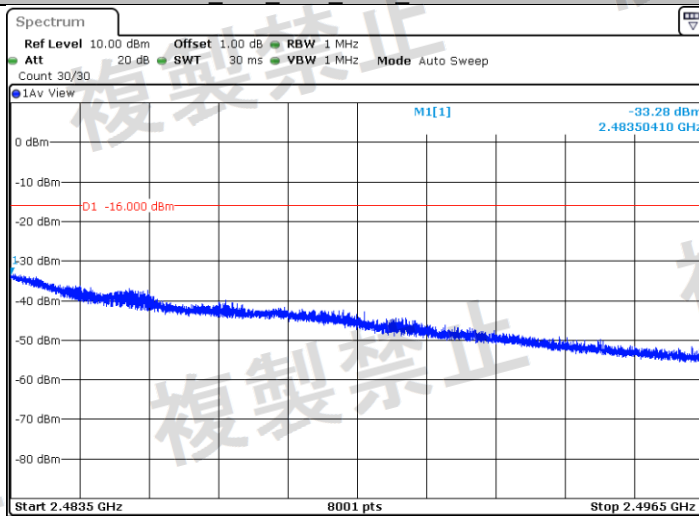
Date: 12.OCT.2021 10:39:12

## NTNV\_11G\_Ant1\_2472\_2387~2400



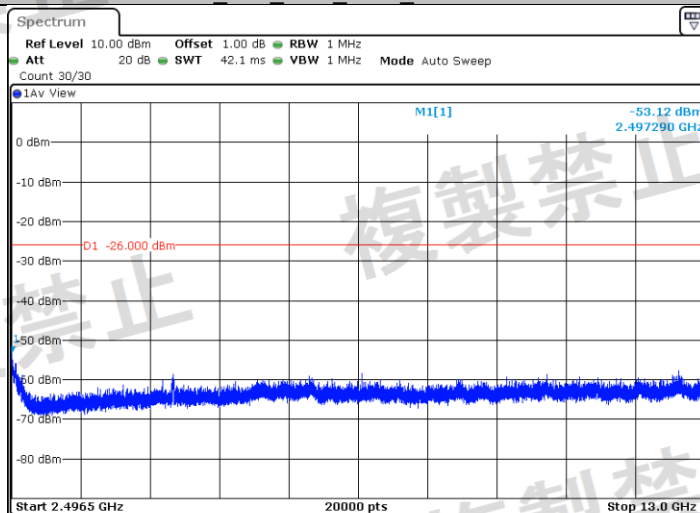
Date: 12.OCT.2021 10:39:21

## NTNV\_11G\_Ant1\_2472\_2483.5~2496.5



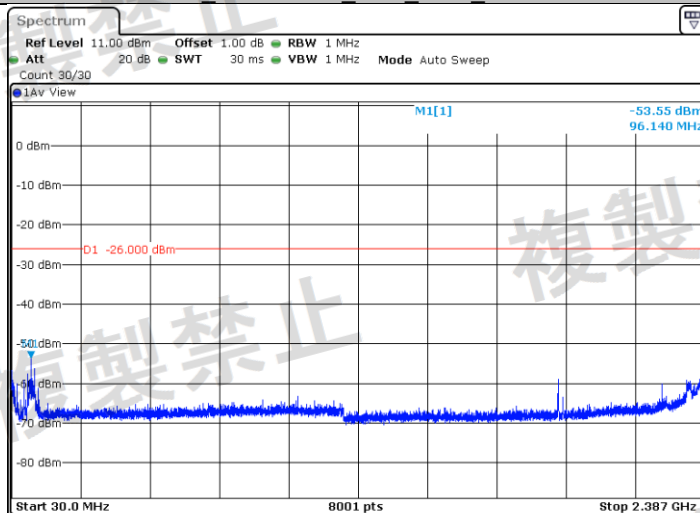
Date: 12.OCT.2021 10:39:32

## NTNV\_11G\_Ant1\_2472\_2496.5~13000



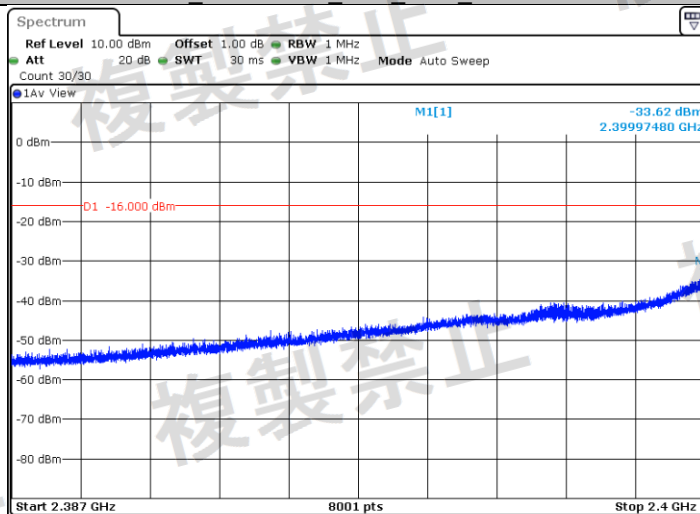
Date: 12.OCT.2021 10:39:43

## NTNV\_11N20SISO\_Ant1\_2412\_30~2387



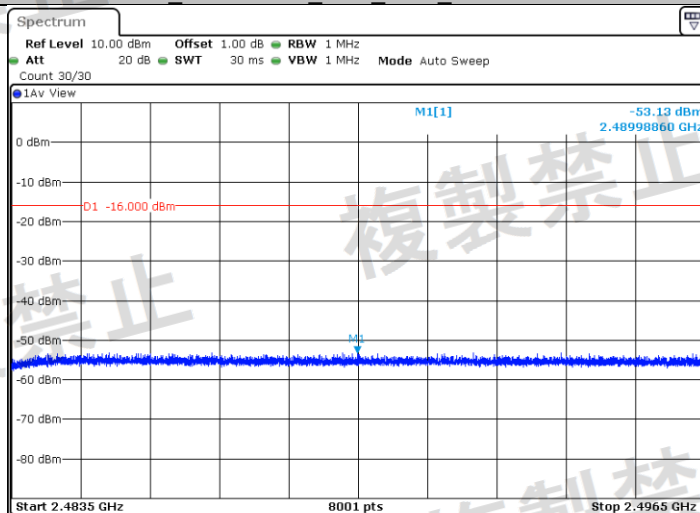
Date: 12.OCT.2021 10:33:58

## NTNV\_11N20SISO\_Ant1\_2412\_2387~2400



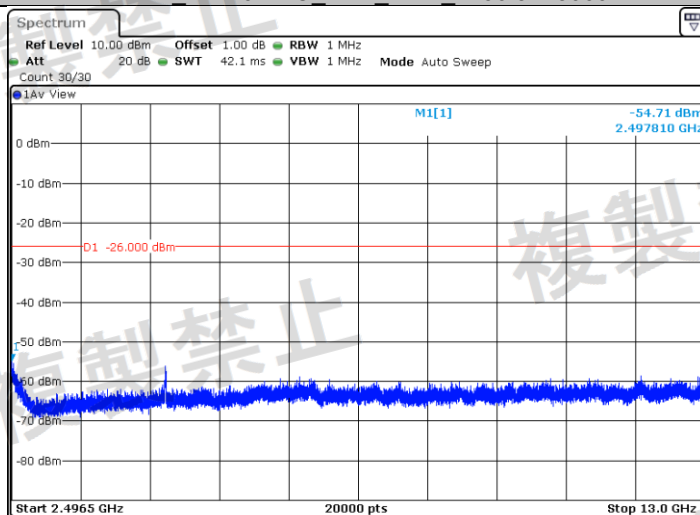
Date: 12.OCT.2021 10:34:07

## NTNV\_11N20SISO\_Ant1\_2412\_2483.5~2496.5



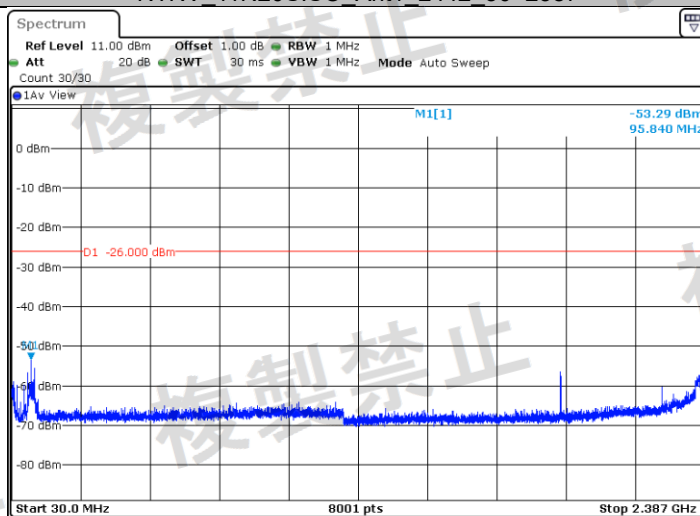
Date: 12.OCT.2021 10:34:19

## NTNV\_11N20SISO\_Ant1\_2412\_2496.5~13000



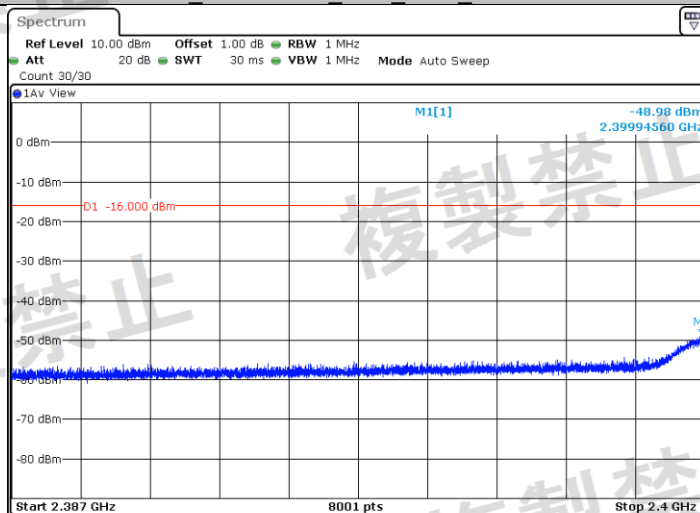
Date: 12.OCT.2021 10:34:29

## NTNV\_11N20SISO\_Ant1\_2442\_30~2387



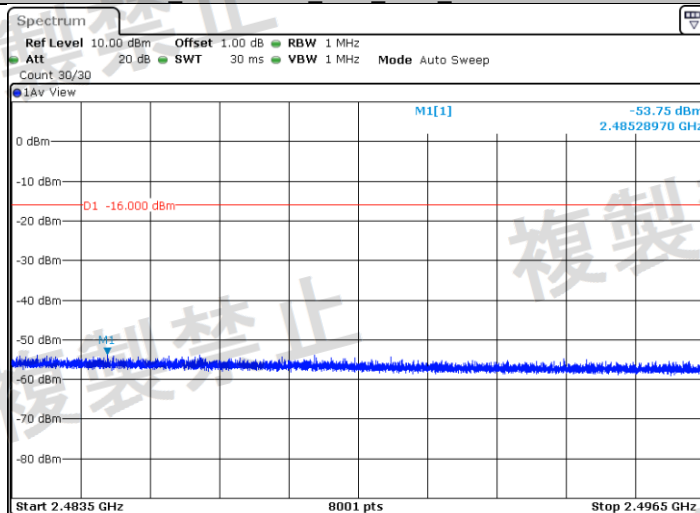
Date: 12.OCT.2021 10:31:53

## NTNV\_11N20SISO\_Ant1\_2442\_2387~2400



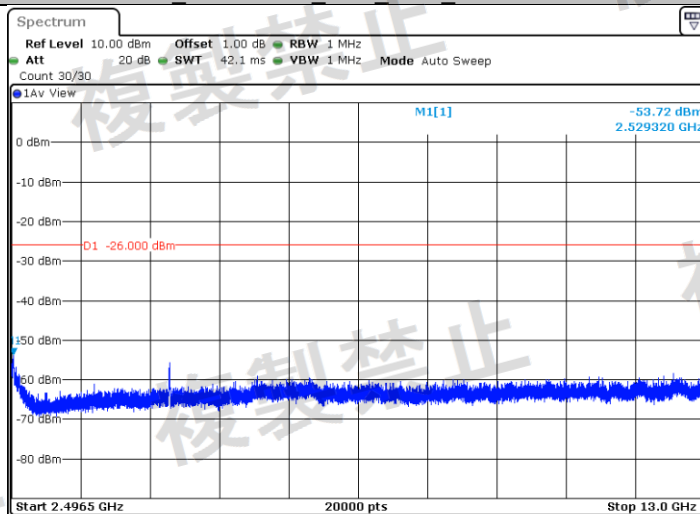
Date: 12.OCT.2021 10:32:02

## NTNV\_11N20SISO\_Ant1\_2442\_2483.5~2496.5



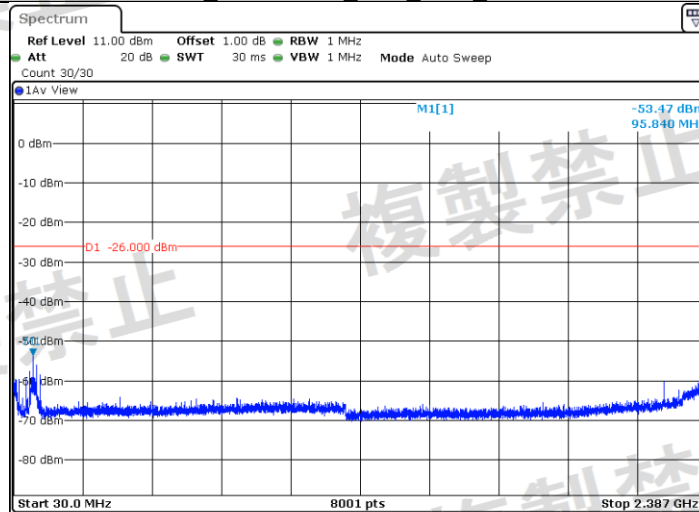
Date: 12.OCT.2021 10:32:13

## NTNV\_11N20SISO\_Ant1\_2442\_2496.5~13000



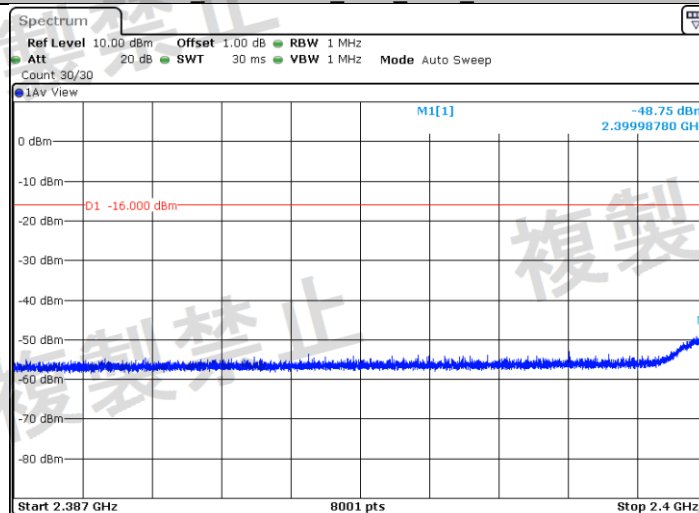
Date: 12.OCT.2021 10:32:24

## NTNV\_11N20SISO Ant1\_2472\_30~2387



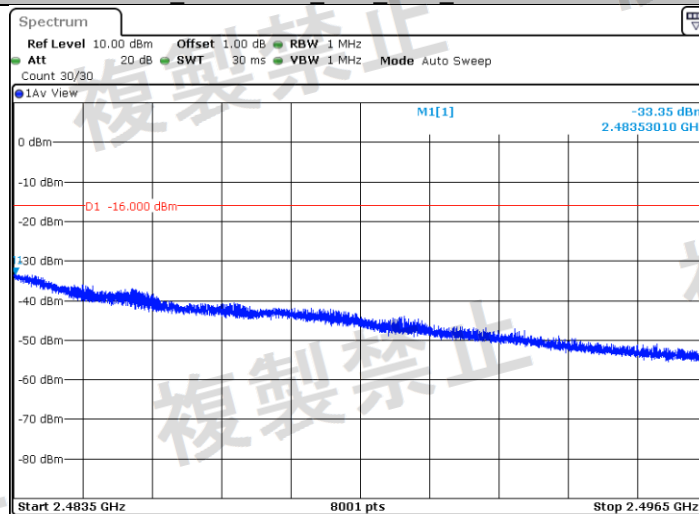
Date: 12.OCT.2021 10:35:47

## NTNV\_11N20SISO Ant1\_2472\_2387~2400



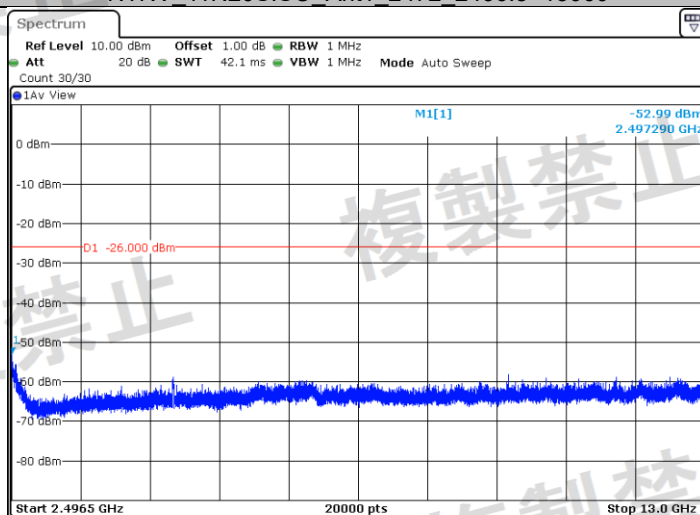
Date: 12.OCT.2021 10:35:56

## NTNV\_11N20SISO Ant1\_2472\_2483.5~2496.5



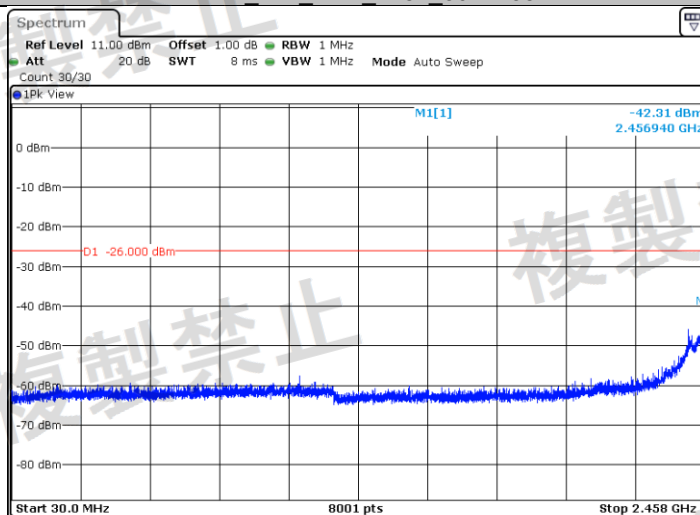
Date: 12.OCT.2021 10:36:07

## NTNV 11N20SISO Ant1 2472 2496.5~13000



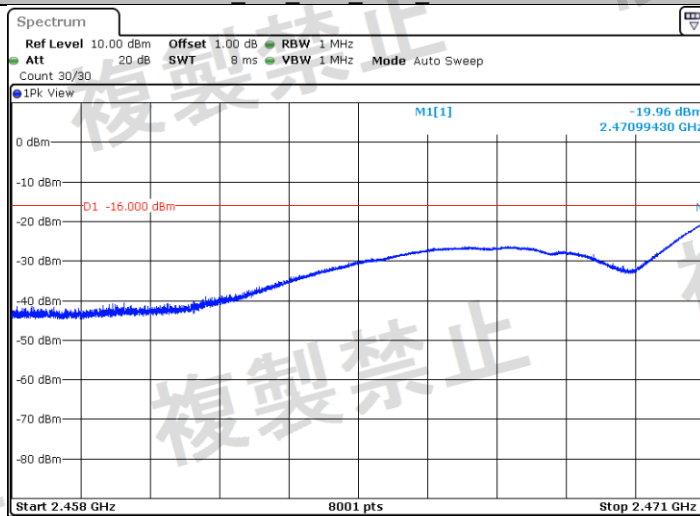
Date: 12.OCT.2021 10:36:18

## NTNV 11B Ant1 2484 30~2458



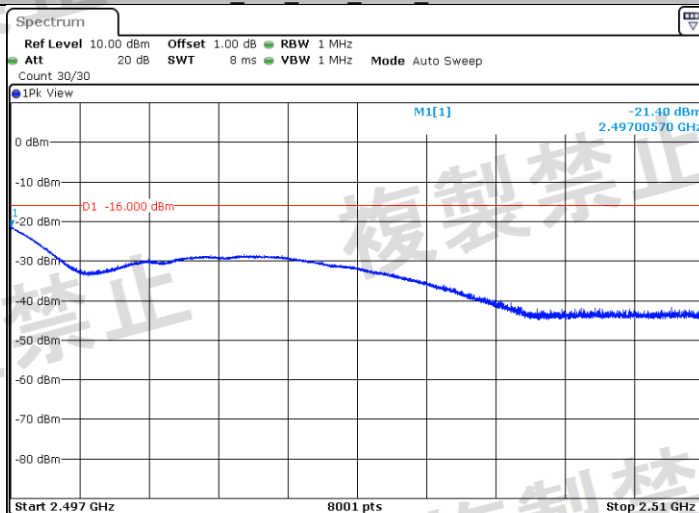
Date: 13.OCT.2021 11:50:57

## NTNV 11B Ant1 2484 2458~2471



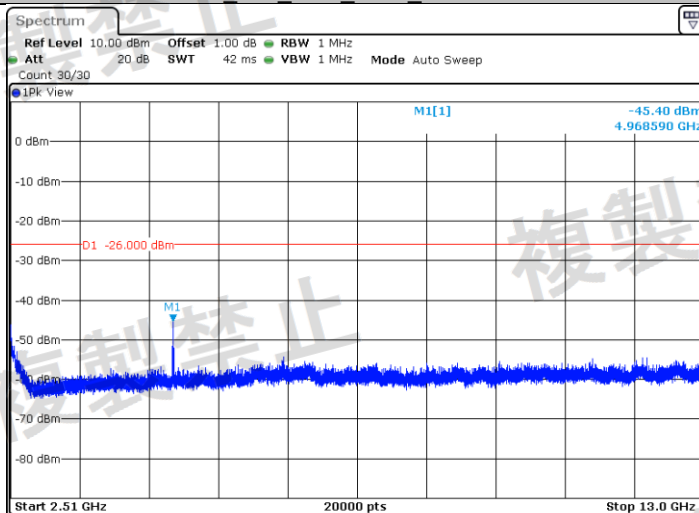
Date: 13.OCT.2021 11:51:08

## NTNV\_11B\_Ant1\_2484\_2497~2510



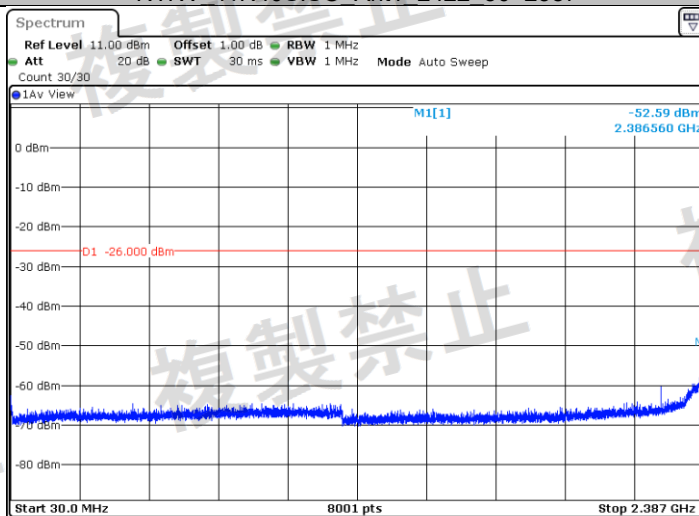
Date: 13.OCT.2021 11:51:33

## NTNV\_11B\_Ant1\_2484\_2510~13000



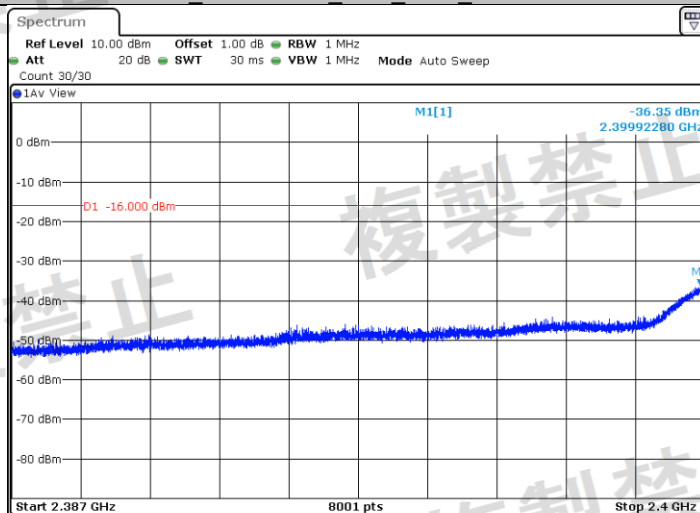
Date: 13.OCT.2021 11:51:33

## NTNV\_11N40SISO\_Ant1\_2422\_30~2387



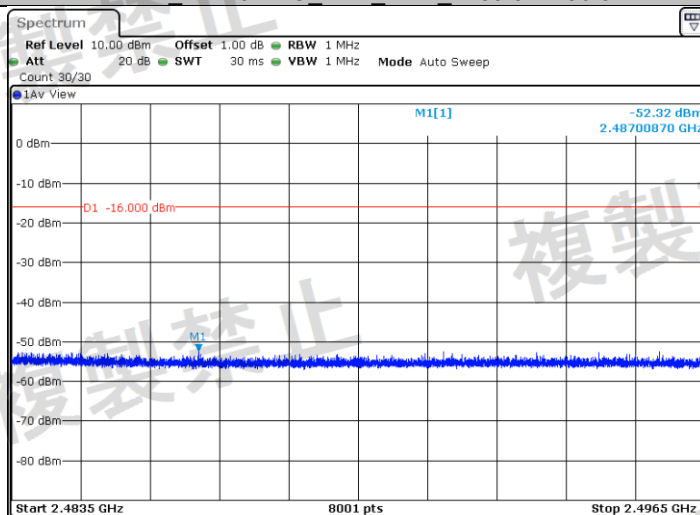
Date: 5.NOV.2021 14:05:40

## NTNV\_11N40SISO\_Ant1\_2422\_2387~2400



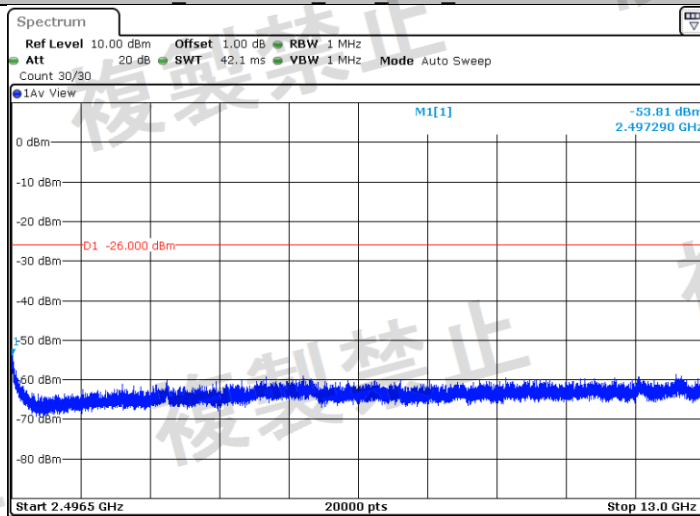
Date: 5 NOV.2021 14:05:49

## NTNV\_11N40SISO\_Ant1\_2422\_2483.5~2496.5



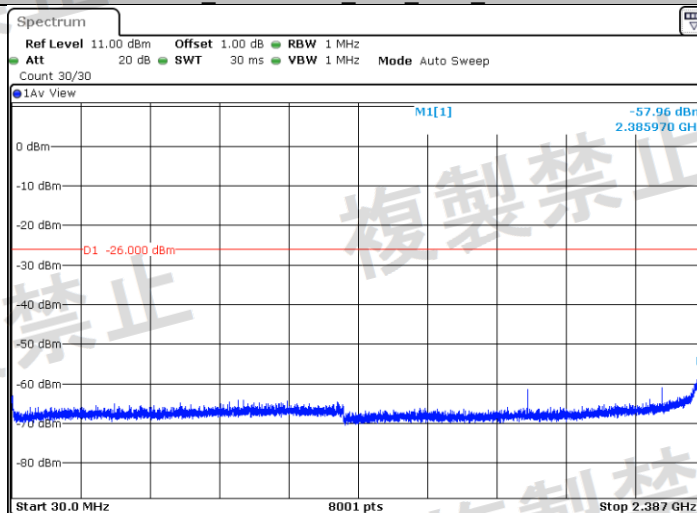
Date: 5 NOV.2021 14:06:00

## NTNV\_11N40SISO\_Ant1\_2422\_2496.5~13000



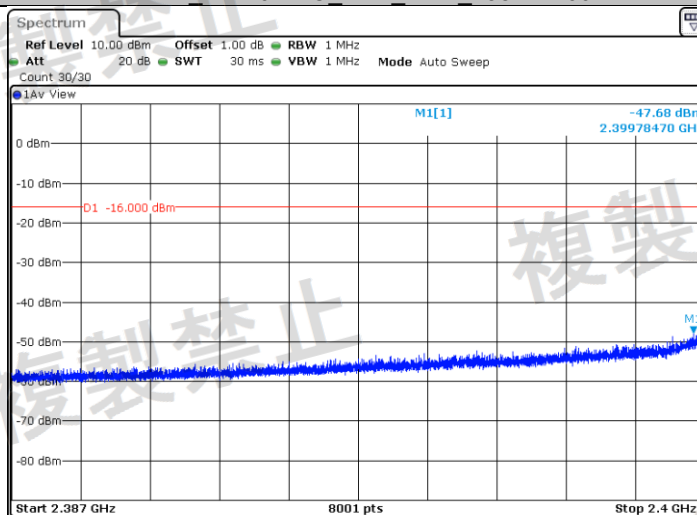
Date: 5 NOV.2021 14:06:10

## NTNV\_11N40SISO Ant1\_2442\_30~2387



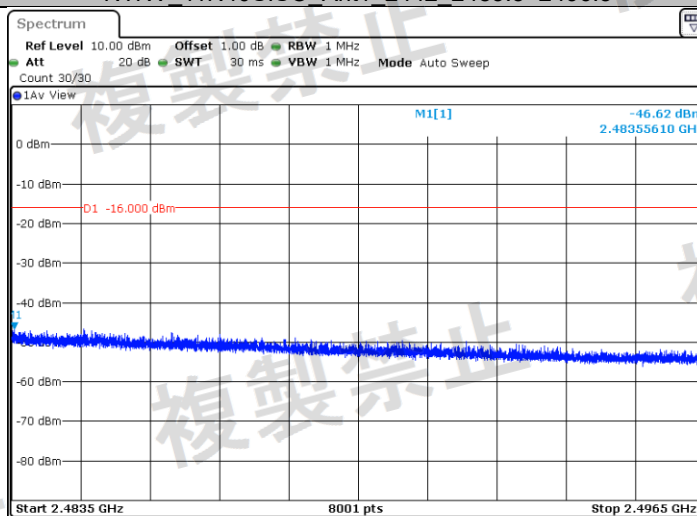
Date: 5 NOV. 2021 14:07:33

## NTNV\_11N40SISO Ant1\_2442\_2387~2400



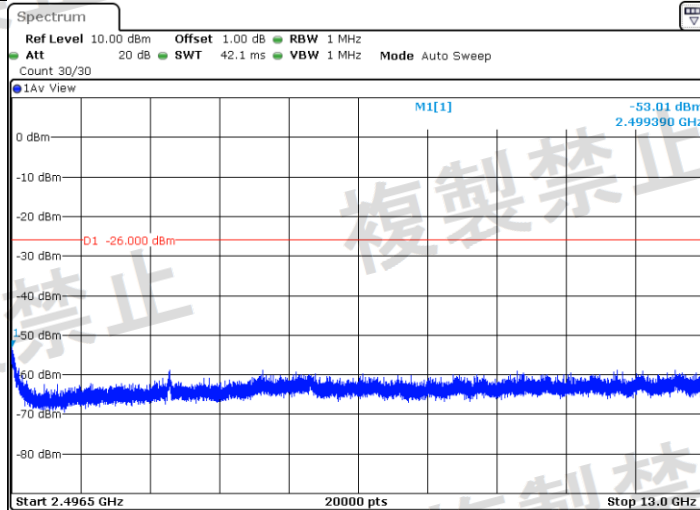
Date: 5 NOV. 2021 14:07:42

## NTNV\_11N40SISO Ant1\_2442\_2483.5~2496.5



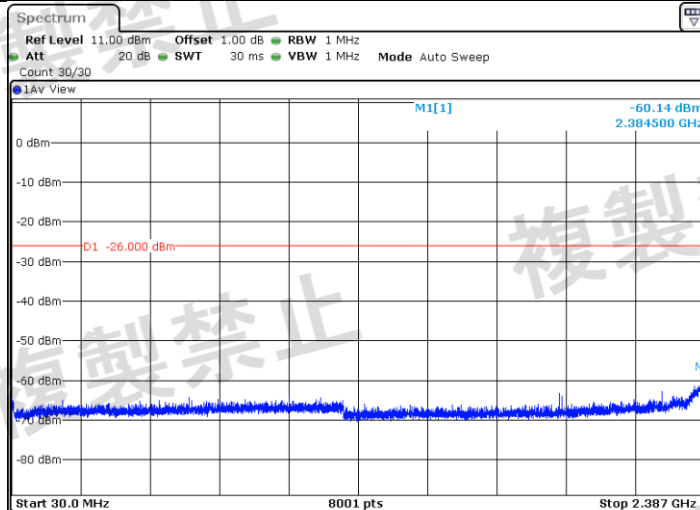
Date: 5 NOV. 2021 14:07:54

## NTNV 11N40SISO Ant1 2442 2496.5~13000



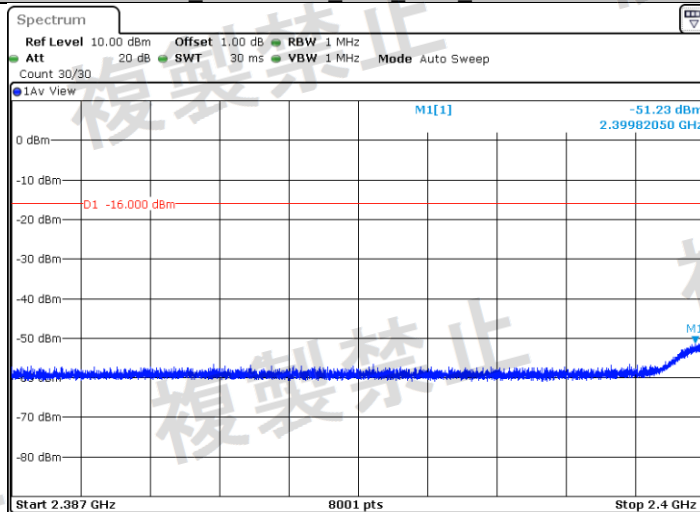
Date: 5 NOV.2021 14:08:04

## NTNV 11N40SISO Ant1 2462 30~2387

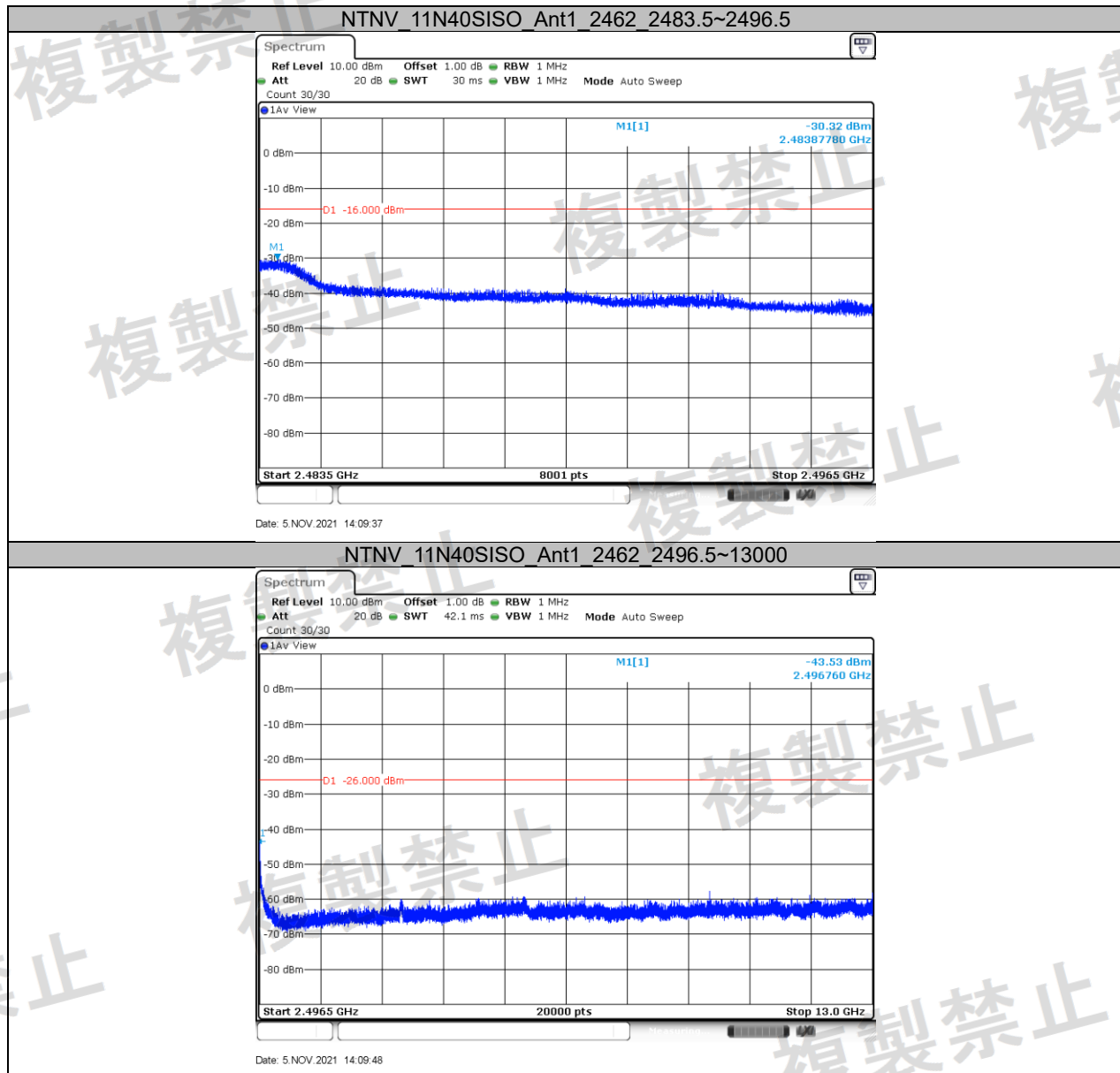


Date: 5 NOV.2021 14:09:17

## NTNV 11N40SISO Ant1 2462 2387~2400



Date: 5 NOV.2021 14:09:26



### 3.7.4 Result

The equipment met the requirement of this clause.

### 3.8 Secondary Radiated Emissions (Conducted) (For receiver)

#### 3.8.1 Test condition

|                      |           |
|----------------------|-----------|
| Test position:       | Receiving |
| Ambient temperature: | 21.1 °C   |
| Relative humidity:   | 50.1 %    |
| Atmosphere Pressure: | 101.0 KPa |

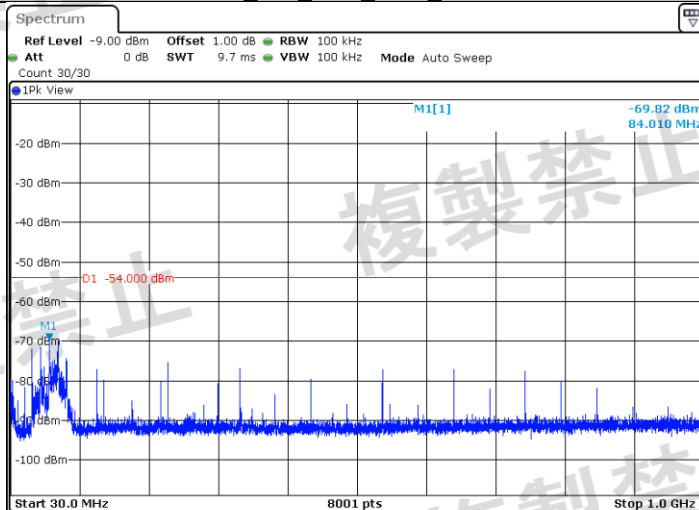
#### 3.8.2 Limit (ARIB STD-T66, Clause 3.5 (1))

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

#### 3.8.3 Test Result

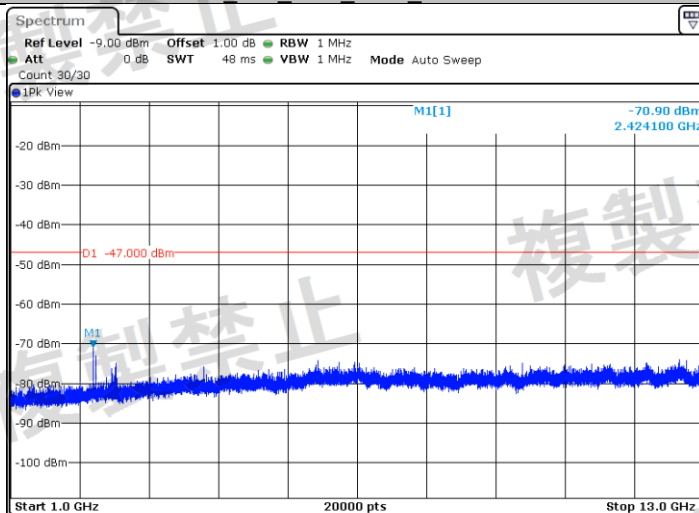
| TestCondition | TestMode  | Antenna | Channel | Freq.Range | Result | Limit | Verdict |
|---------------|-----------|---------|---------|------------|--------|-------|---------|
| NTNV          | 11B       | Ant1    | 2412    | 30~1000    | -69.82 | <=-54 | PASS    |
|               |           |         |         | 1000~13000 | -70.9  | <=-47 | PASS    |
|               |           |         | 2442    | 30~1000    | -69.72 | <=-54 | PASS    |
|               |           |         |         | 1000~13000 | -70.09 | <=-47 | PASS    |
|               |           |         | 2472    | 30~1000    | -68.92 | <=-54 | PASS    |
|               |           |         |         | 1000~13000 | -70.72 | <=-47 | PASS    |
|               | 11G       | Ant1    | 2412    | 30~1000    | -69.95 | <=-54 | PASS    |
|               |           |         |         | 1000~13000 | -71.01 | <=-47 | PASS    |
|               |           |         | 2442    | 30~1000    | -66.03 | <=-54 | PASS    |
|               |           |         |         | 1000~13000 | -70.14 | <=-47 | PASS    |
|               |           |         | 2472    | 30~1000    | -69.64 | <=-54 | PASS    |
|               |           |         |         | 1000~13000 | -71.02 | <=-47 | PASS    |
|               | 11N20SISO | Ant1    | 2412    | 30~1000    | -55.64 | <=-54 | PASS    |
|               |           |         |         | 1000~13000 | -73.01 | <=-47 | PASS    |
|               |           |         | 2442    | 30~1000    | -66.42 | <=-54 | PASS    |
|               |           |         |         | 1000~13000 | -71.68 | <=-47 | PASS    |
|               |           |         | 2472    | 30~1000    | -69.64 | <=-54 | PASS    |
|               |           |         |         | 1000~13000 | -70.37 | <=-47 | PASS    |
|               | 11B       | Ant1    | 2484    | 30~1000    | -79.07 | <=-54 | PASS    |
|               |           |         |         | 1000~13000 | -68.32 | <=-47 | PASS    |
|               | 11N40SISO | Ant1    | 2422    | 30~1000    | -88.2  | <=-54 | PASS    |
|               |           |         |         | 1000~13000 | -67.68 | <=-47 | PASS    |
|               |           |         | 2442    | 30~1000    | -88.28 | <=-54 | PASS    |
|               |           |         |         | 1000~13000 | -63.16 | <=-47 | PASS    |
|               |           |         | 2462    | 30~1000    | -87.92 | <=-54 | PASS    |
|               |           |         |         | 1000~13000 | -52.72 | <=-47 | PASS    |

## NTNV\_11B\_Ant1\_2412\_30~1000



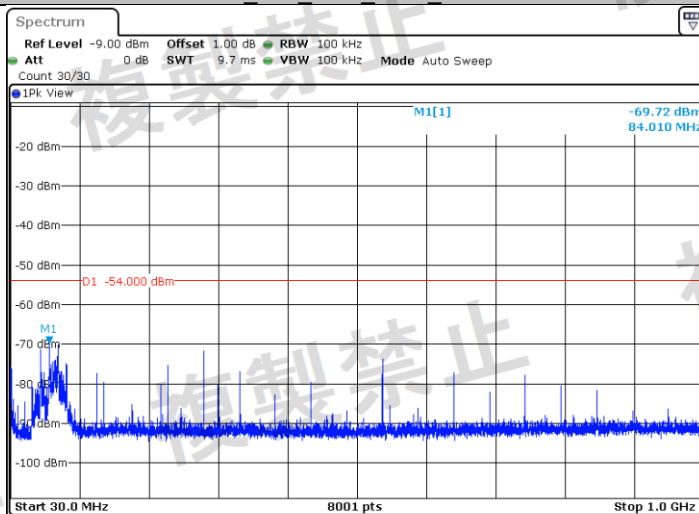
Date: 12.OCT.2021 11:31:08

## NTNV\_11B\_Ant1\_2412\_1000~13000



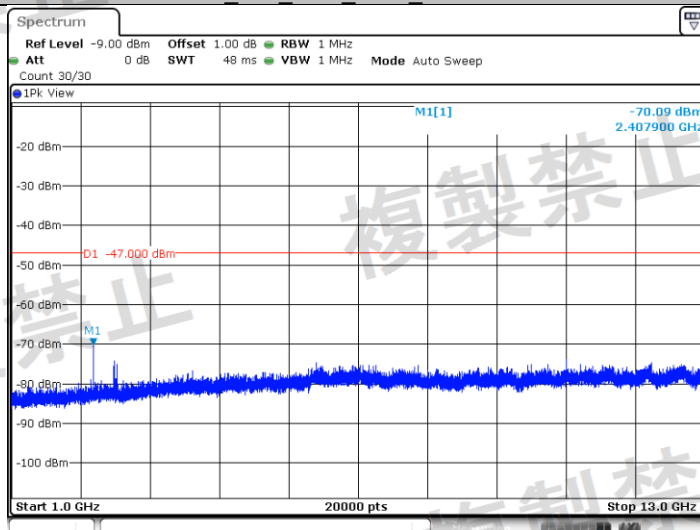
Date: 12.OCT.2021 11:31:18

## NTNV\_11B\_Ant1\_2442\_30~1000



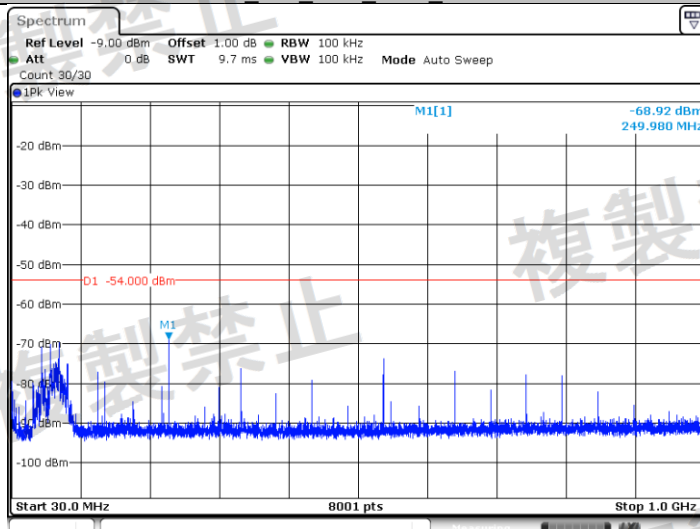
Date: 12.OCT.2021 11:31:51

## NTNV\_11B\_Ant1\_2442\_1000~13000



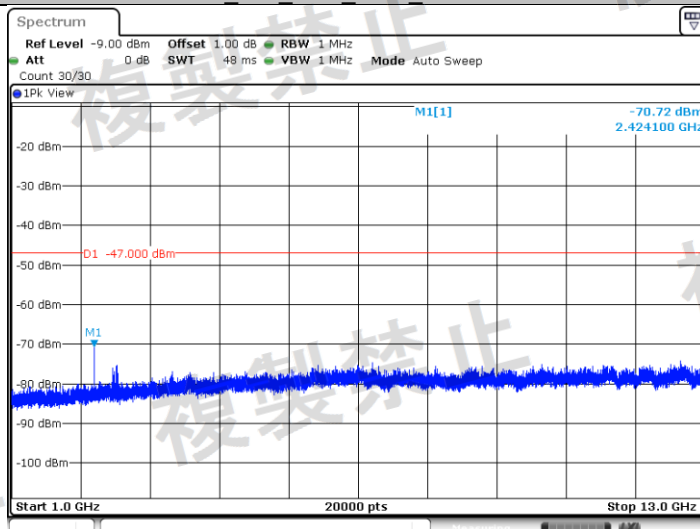
Date: 12.OCT.2021 11:32:01

## NTNV\_11B\_Ant1\_2472\_30~1000



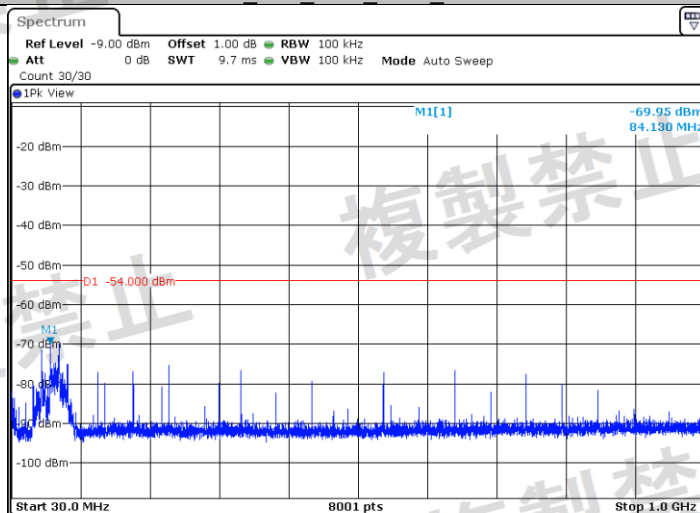
Date: 12.OCT.2021 11:32:14

## NTNV\_11B\_Ant1\_2472\_1000~13000



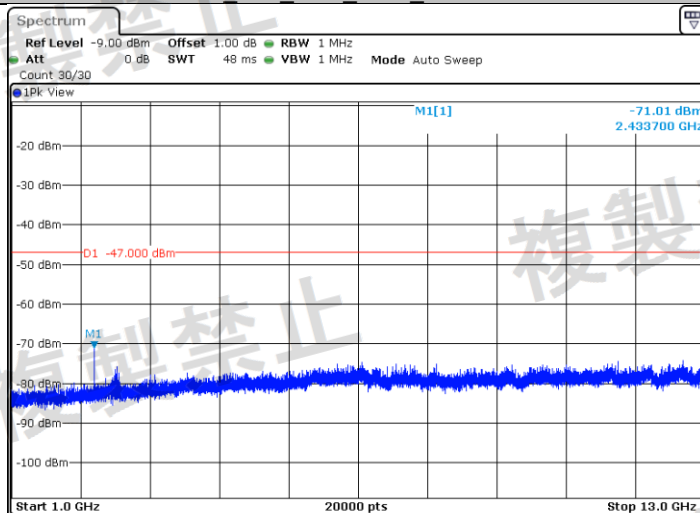
Date: 12.OCT.2021 11:32:24

## NTNV\_11G\_Ant1\_2412\_30~1000



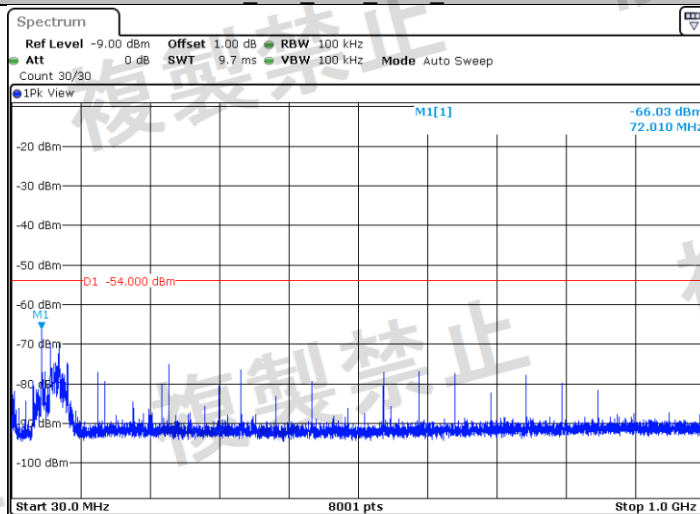
Date: 12.OCT.2021 11:32:45

## NTNV\_11G\_Ant1\_2412\_1000~13000



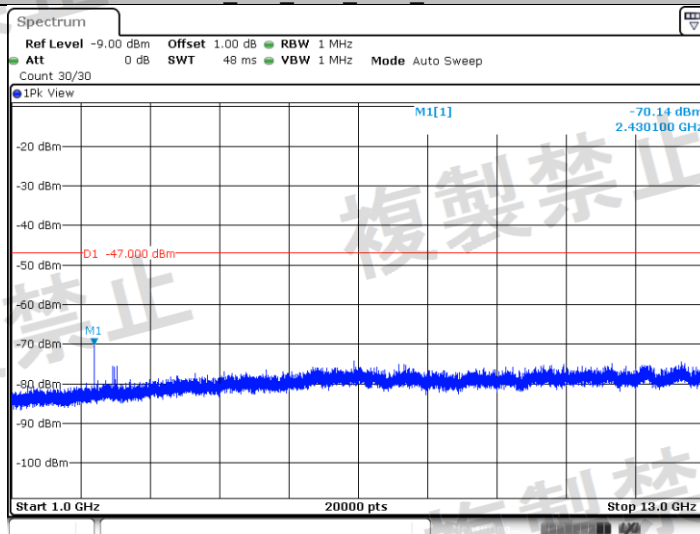
Date: 12.OCT.2021 11:32:55

## NTNV\_11G\_Ant1\_2442\_30~1000



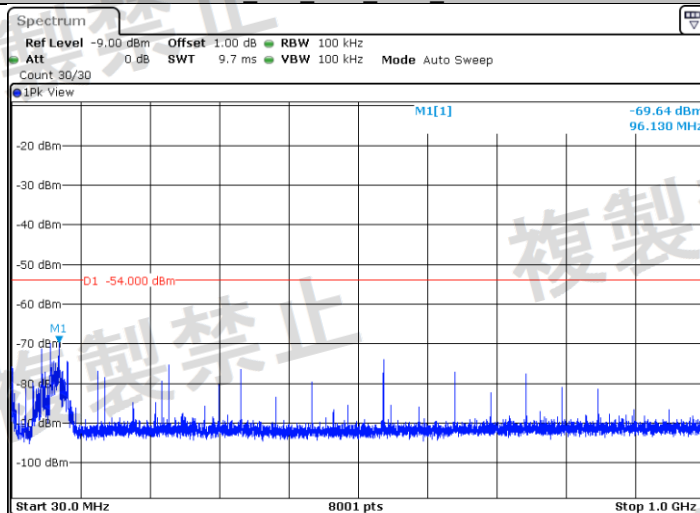
Date: 12.OCT.2021 11:33:08

## NTNV\_11G\_Ant1\_2442\_1000~13000



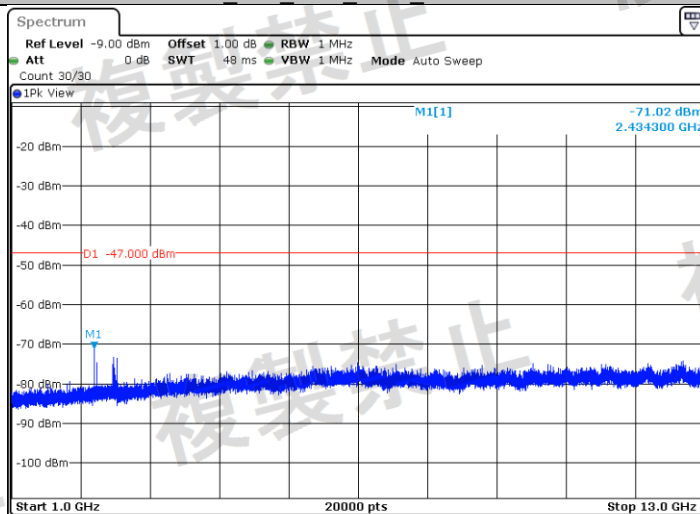
Date: 12.OCT.2021 11:33:18

## NTNV\_11G\_Ant1\_2472\_30~1000



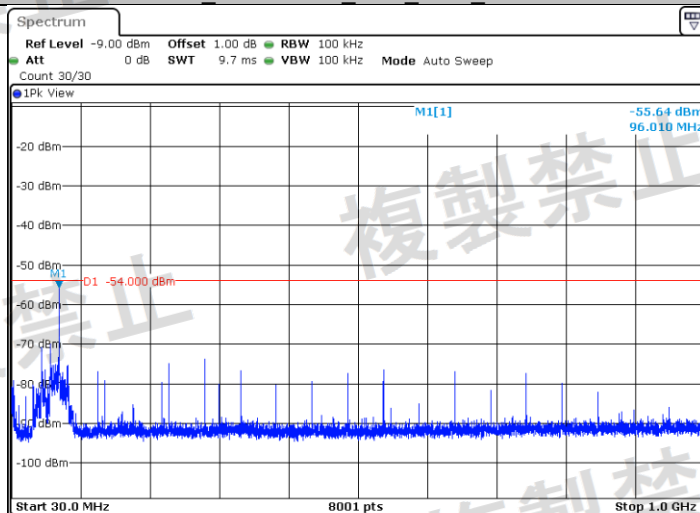
Date: 12.OCT.2021 11:33:31

## NTNV\_11G\_Ant1\_2472\_1000~13000



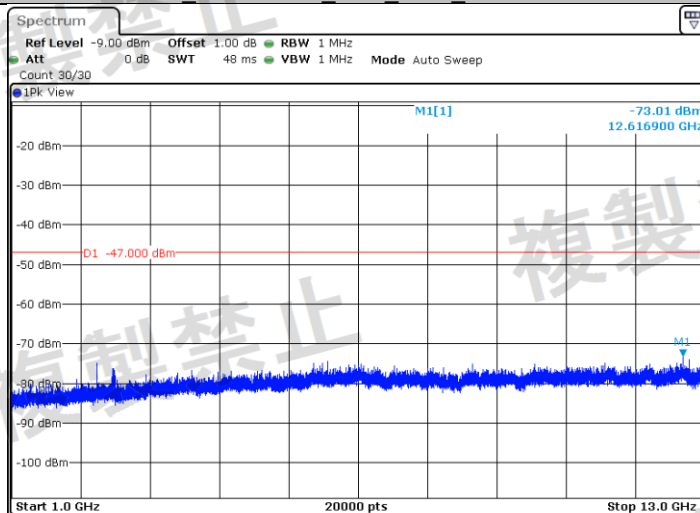
Date: 12.OCT.2021 11:33:41

## NTNV\_11N20SISO\_Ant1\_2412\_30~1000



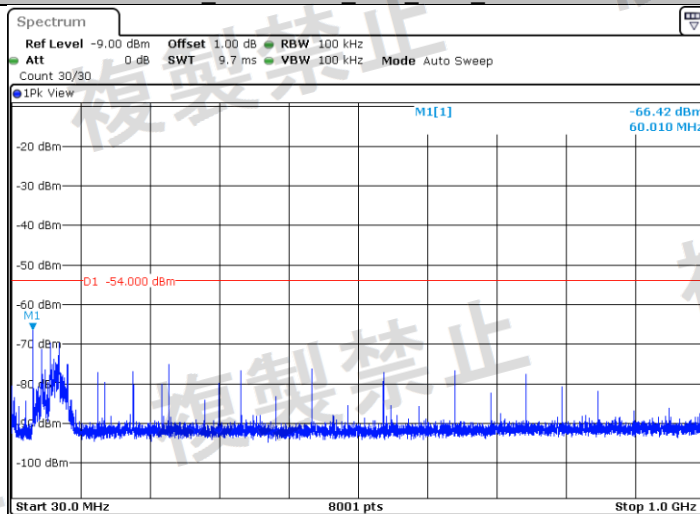
Date: 12.OCT.2021 11:33:53

## NTNV\_11N20SISO\_Ant1\_2412\_1000~13000



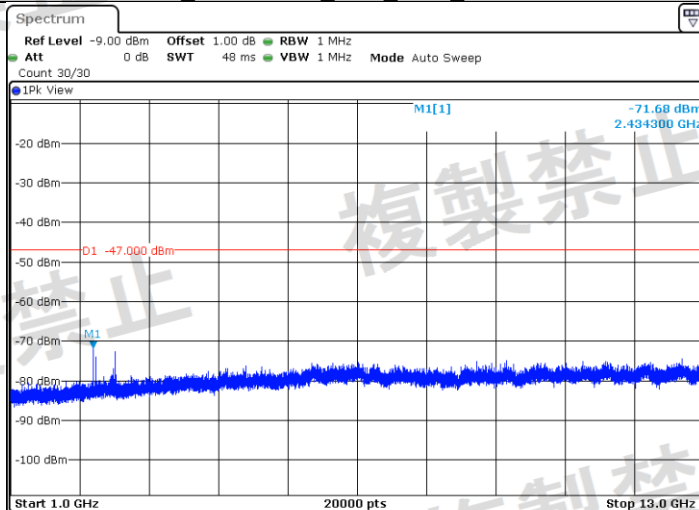
Date: 12.OCT.2021 11:34:04

## NTNV\_11N20SISO\_Ant1\_2442\_30~1000



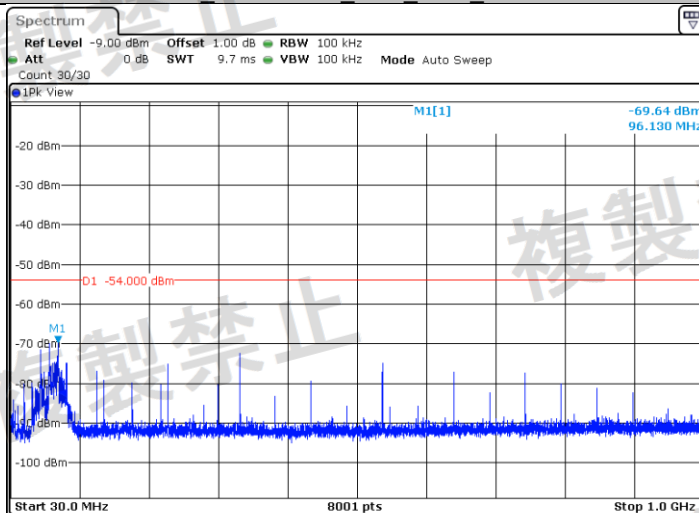
Date: 12.OCT.2021 11:34:16

## NTNV\_11N20SISO\_Ant1\_2442\_1000~13000



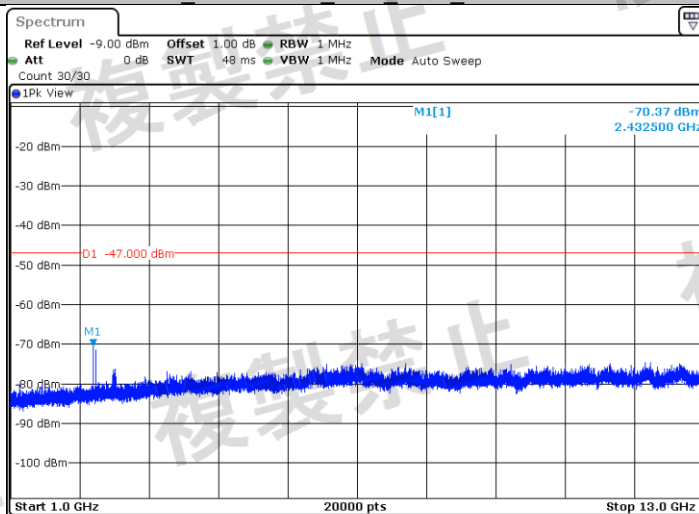
Date: 12.OCT.2021 11:34:26

## NTNV\_11N20SISO\_Ant1\_2472\_30~1000



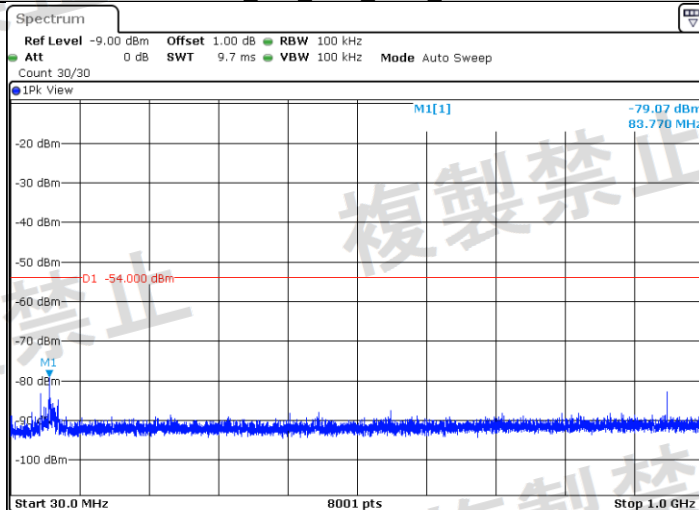
Date: 12.OCT.2021 11:35:24

## NTNV\_11N20SISO\_Ant1\_2472\_1000~13000



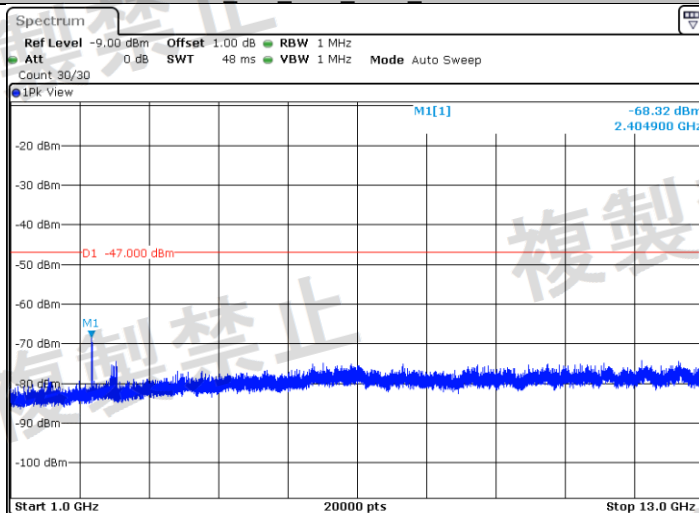
Date: 12.OCT.2021 11:35:34

## NTNV\_11B\_Ant1\_2484\_30~1000



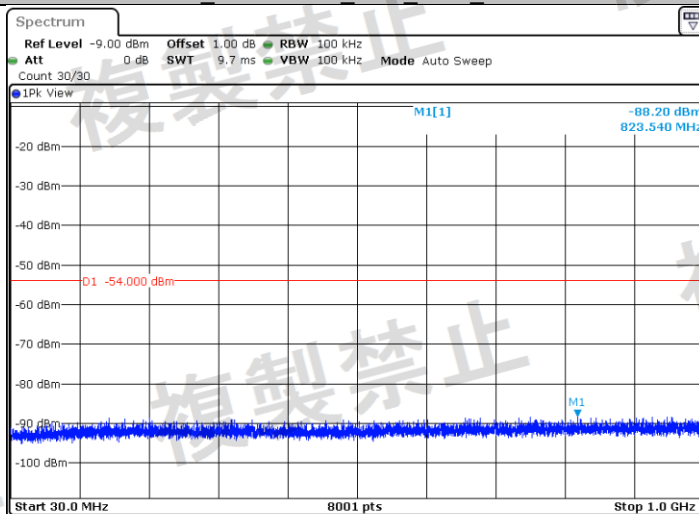
Date: 13.OCT.2021 11:54:40

## NTNV\_11B\_Ant1\_2484\_1000~13000



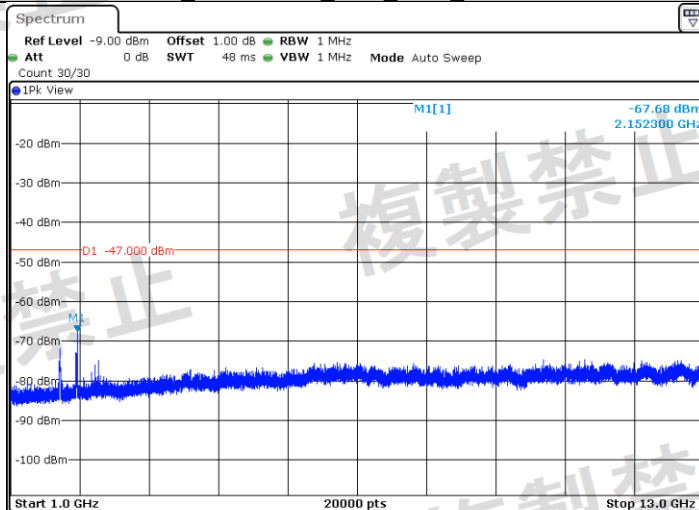
Date: 13.OCT.2021 11:54:50

## NTNV\_11N40SISO\_Ant1\_2422\_30~1000



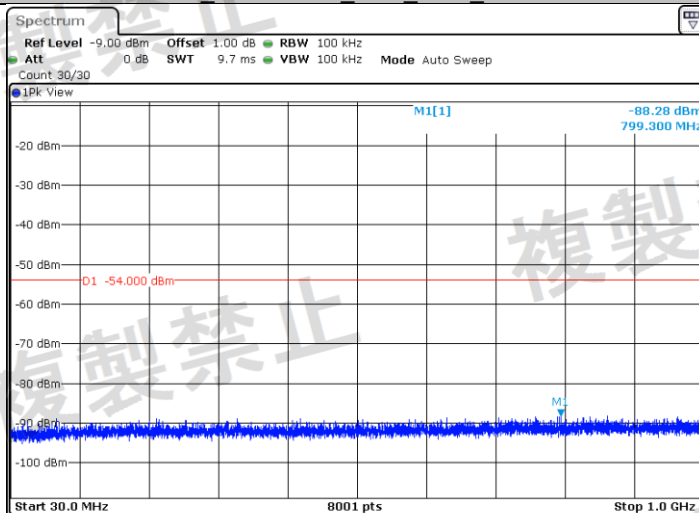
Date: 5.NOV.2021 14:13:42

## NTNV\_11N40SISO\_Ant1\_2442\_1000~13000



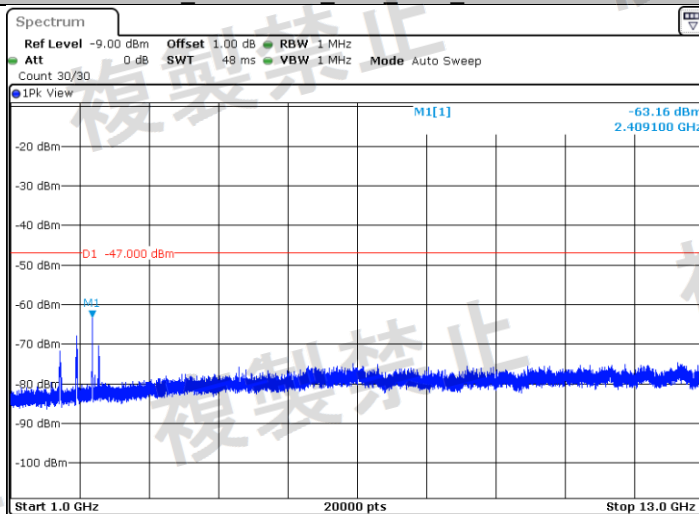
Date: 5 NOV.2021 14:13:53

## NTNV\_11N40SISO\_Ant1\_2442\_30~1000

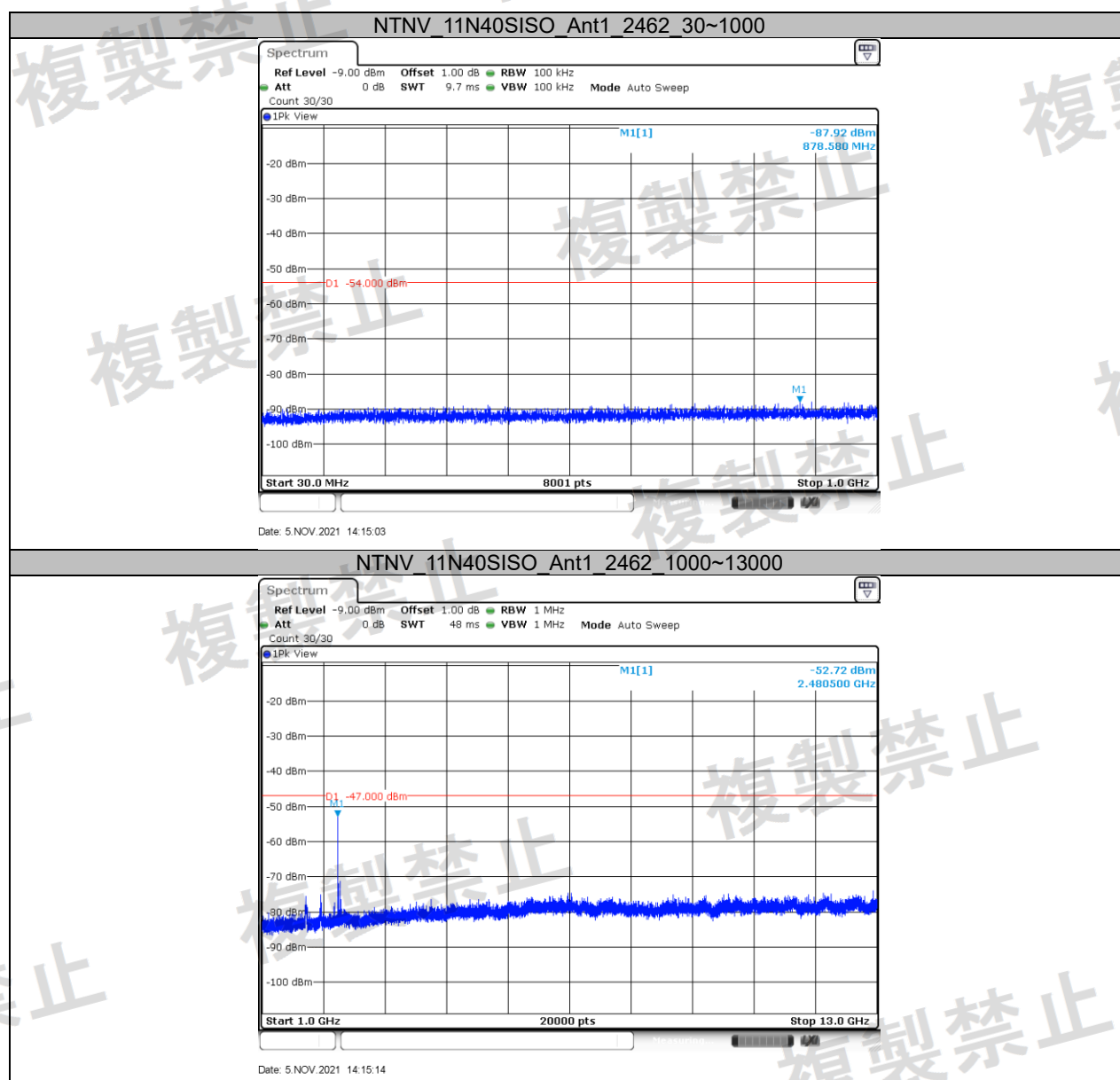


Date: 5 NOV.2021 14:14:04

## NTNV\_11N40SISO\_Ant1\_2442\_1000~13000



Date: 5 NOV.2021 14:14:14



### 3.8.4 Result

The equipment met the requirement of this clause.

### 3.9 Interference prevention function

#### 3.9.1 Test condition

|                      |              |
|----------------------|--------------|
| Test position:       | Transmitting |
| Ambient temperature: | 21.1 °C      |
| Relative humidity:   | 50.1 %       |
| Atmosphere Pressure: | 101.0 KPa    |

#### 3.9.2 Limit

| Item                | Limits   |
|---------------------|----------|
| Identification Code | ≥48 bits |

Measured Result:

| Test Conditions         | Operation Frequency |          |          |          |          |          |
|-------------------------|---------------------|----------|----------|----------|----------|----------|
|                         | 2412 MHz            | 2422 MHz | 2442 MHz | 2462 MHz | 2472 MHz | 2484 MHz |
| Normal Voltage (3.3VDC) | 48                  | 48       | 48       | 48       | 48       | 48       |

#### 3.9.3 Result

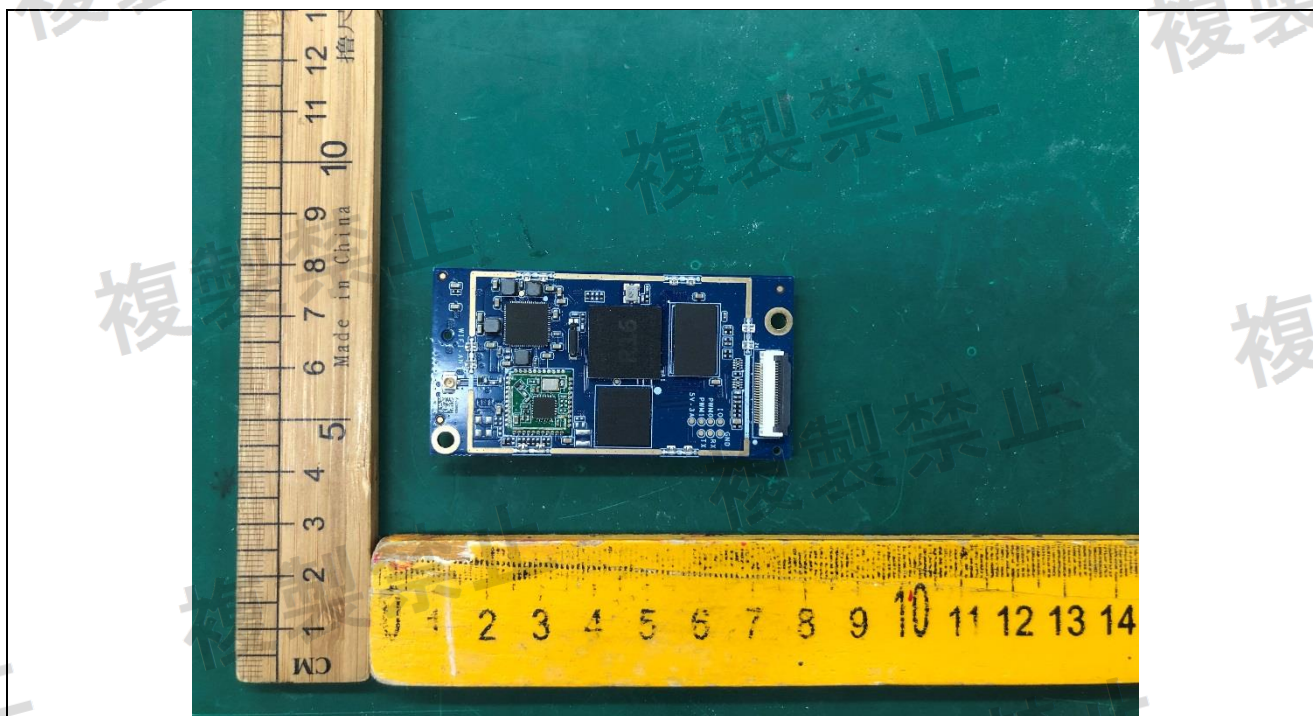
The equipment met the requirement of this clause.

#### 4 Photographs of Test Set-ups

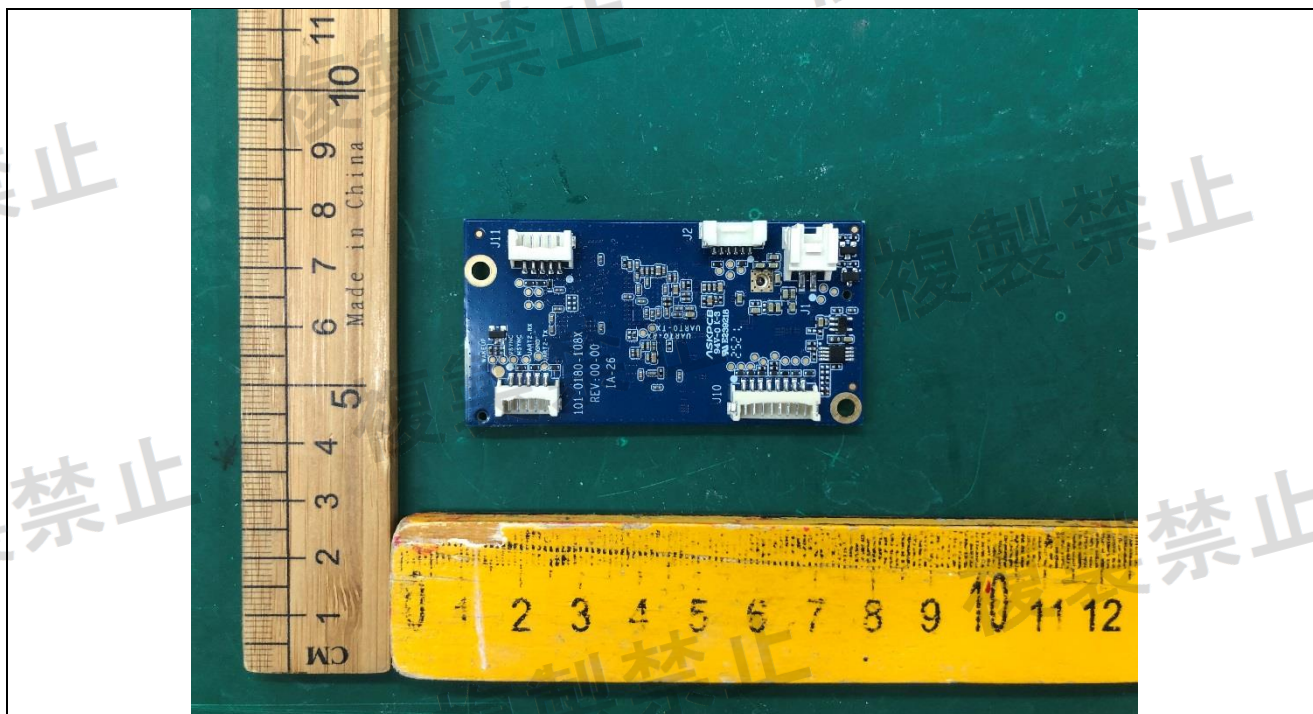


## 5 Photographs of EUT

Details of: Front view



Details of: Rear view



THE END