



## RF TEST REPORT

**Report No.** : TBR-C-202603-0180-223  
**Applicant** : Shenzhen Alldocube Science and Technology Co., Ltd.  
**Equipment Under Test (EUT)**  
**EUT Name** : Tablet PC  
**Model No.** : T1051  
T1052, T1160, T1161, T1162, T1260, T1261, T1308,  
**Series Model No.** : CUL3JT, T1035, T1036, T1038, T1039, T1102, T1103, T1107,  
T1108, U1033, U1035, U1036, U1038, U1102, U1380, T1201,  
T1202, T1205, T1302, T1053, U1053, T1055, U1055  
**Brand Name** : ALLDOCUBE  
**Receipt Date** : 2023-03-16  
**Test Date** : 2023-03-16 to 2023-04-13  
**Issue Date** : 2026-04-28  
**Rule Part(s)** : MIC Notice No.88 Annex 43  
**Test Standards** : ARIB STD-T66  
Article 2 paragraph 1 item 19  
**Conclusions** : **PASS**  
In the configuration tested, the EUT complied with the standards specified above

**Test By** : Gold. Zhang

**Reviewed By** : Wade. W

**Approved By** : IVAN SU



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-073-3.1

## Contents

|                                                          |           |
|----------------------------------------------------------|-----------|
| <b>CONTENTS</b>                                          | <b>2</b>  |
| <b>1. GENERAL INFORMATION</b>                            | <b>4</b>  |
| 1.1 Description of Device (EUT)                          | 4         |
| 1.2 Channle List                                         | 5         |
| <b>2. DESCRIPTION OF TEST</b>                            | <b>6</b>  |
| 2.1 Summary of Test                                      | 6         |
| 2.2 Assistant Equipment Used for Test                    | 7         |
| 2.3 Block Diagram of Test Setup                          | 7         |
| 2.4 Test Mode Description                                | 7         |
| 2.5 Test Conditions                                      | 8         |
| 2.6 Measurement Uncertainty (95% confidence levels, k=2) | 8         |
| 2.7 Test Lab Information                                 | 8         |
| 2.8 Test Equipment                                       | 8         |
| <b>3. TRANSMITTER TEST</b>                               | <b>9</b>  |
| 3.1 Frequency Error                                      | 9         |
| 3.2 Antenna Power                                        | 10        |
| 3.3 Occupied Bandwidth                                   | 11        |
| 3.4 Spread Bandwidth                                     | 12        |
| 3.5 Spurious Emission of TX                              | 13        |
| 3.6 Number of Carriers                                   | 14        |
| 3.7 Interference Prevention Function                     | 15        |
| 3.8 Carrier Sensing Function                             | 16        |
| <b>4. RECEIVER TEST</b>                                  | <b>17</b> |
| 4.1 Secondary Radiated Emissions                         | 17        |
| <b>5. TEST SETUP PHOTOS</b>                              | <b>18</b> |
| <b>6. EUT PHOTOS</b>                                     | <b>18</b> |
| <b>7. LABEL INFORMATION</b>                              | <b>18</b> |
| <b>8. CONSTRUCTION PROTECTION CONFIRMATION METHOD</b>    | <b>18</b> |
| 8.1 Requirement                                          | 18        |
| 8.2 Confirmation Method                                  | 18        |
| <b>APPENDIX A: FREQUENCY ERROR</b>                       | <b>19</b> |
| <b>APPENDIX B: ANTENNA POWER</b>                         | <b>22</b> |
| <b>APPENDIX C: OCCUPIED BANDWIDTH</b>                    | <b>24</b> |
| <b>APPENDIX D: SPREAD BANDWIDTH</b>                      | <b>29</b> |
| <b>APPENDIX E: SPURIOUS EMISSION OF TX</b>               | <b>34</b> |
| <b>APPENDIX F: SPURIOUS EMISSION OF RX</b>               | <b>56</b> |



## Revision History

| Report No.            | Version | Description                                                                              | Issued Date |
|-----------------------|---------|------------------------------------------------------------------------------------------|-------------|
| TBR-C-202303-0083-22  | Rev.01  | Initial issue of report                                                                  | 2023-04-13  |
| TBR-C-202409-0209-52  | Rev.02  | Updated the EUT name, Model name and Address                                             | 2024-10-09  |
| TBR-C-202508-0079-12  | Rev.03  | Change the Model No. and Series Model No., Update the Address of Applicant, Manufacturer | 2025-08-15  |
| TBR-C-202603-0180-223 | Rev.04  | Change the Series Model No.                                                              | 2026-04-28  |
|                       |         |                                                                                          |             |
|                       |         |                                                                                          |             |
|                       |         |                                                                                          |             |
|                       |         |                                                                                          |             |
|                       |         |                                                                                          |             |
|                       |         |                                                                                          |             |
|                       |         |                                                                                          |             |
|                       |         |                                                                                          |             |



## 1. General Information

### 1.1 Description of Device (EUT)

|                                                                                                                                                                                                                                                                          |   |                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT</b>                                                                                                                                                                                                                                                               | : | Tablet PC                                                                                                                                                                                                                       |
| <b>Model No.</b>                                                                                                                                                                                                                                                         | : | T1051,T1052,T1160,T1161,T1162,T1260,T1261,T1308,<br>CUL3JT,T1035,T1036,T1038,T1039,T1102,T1103,T1107,<br>T1108,U1033,U1035,U1036,U1038,U1102,U1380,T1201,<br>T1202,T1205,T1302,T1053,U1053,T1055,U1055                          |
| <b>Power supply</b>                                                                                                                                                                                                                                                      | : | Adapter (Model:AS1201A-0502000USU)<br>Input:100-240V~, 50/60Hz 0.35A Max<br>Output: 5V---2000mV<br>DC 3.8V by 6200mAh Rechargeable Li-ion battery                                                                               |
| <b>Radio Technology</b>                                                                                                                                                                                                                                                  | : | 802.11b/g/n(HT20)/n(HT40)                                                                                                                                                                                                       |
| <b>Operation frequency</b>                                                                                                                                                                                                                                               | : | 802.11b/g/n(HT20): 2412MHz-2472MHz<br>802.11n(HT40): 2422MHz-2462MHz                                                                                                                                                            |
| <b>Modulation</b>                                                                                                                                                                                                                                                        | : | 802.11b:DSSS(CCK, DQPSK, DBPSK)<br>802.11g/n:OFDM(BPSK,QPSK,16QAM,64QAM)                                                                                                                                                        |
| <b>Data Rate</b>                                                                                                                                                                                                                                                         | : | 802.11b:11/5.5/2/1Mbps<br>802.11g:54/48/36/24/18/12/9/6 Mbps<br>802.11n: up to 150Mbps                                                                                                                                          |
| <b>Antenna Type</b>                                                                                                                                                                                                                                                      | : | PIFA antenna, Maximum Gain: 1.05dBi                                                                                                                                                                                             |
| <b>Declared Output Power</b>                                                                                                                                                                                                                                             | : | 802.11b: 10mW/MHz<br>802.11g: 5mW/MHz<br>802.11n(HT20): 5mW/MHz<br>802.11n(HT40): 2mW/MHz                                                                                                                                       |
| <b>Applicant Address</b>                                                                                                                                                                                                                                                 | : | Shenzhen Alldocube Science and Technology Co., Ltd.<br>Building A, Room 2802, Longhua District Digital Innovation Center (HOROY North Station Center), Beizhan Community, Minzhi Street, Longhua District, Shenzhen City, China |
| <b>Manufacturer Address</b>                                                                                                                                                                                                                                              | : | Shenzhen Alldocube Science and Technology Co., Ltd.<br>Building A, Room 2802, Longhua District Digital Innovation Center (HOROY North Station Center), Beizhan Community, Minzhi Street, Longhua District, Shenzhen City, China |
| <b>Software Version</b>                                                                                                                                                                                                                                                  | : | IPLAY50_V1.0_20221108                                                                                                                                                                                                           |
| <b>Hardware Version</b>                                                                                                                                                                                                                                                  | : | CUBE_CS308-V1.1                                                                                                                                                                                                                 |
| <b>Remark:</b><br>(1)The antenna gain and adapter provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.<br>(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. |   |                                                                                                                                                                                                                                 |



## 1.2 Channle List

| Channel                                                                  | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|--------------------------------------------------------------------------|-----------------|---------|-----------------|---------|-----------------|
| 01                                                                       | 2412            | 06      | 2437            | 11      | 2462            |
| 02                                                                       | 2417            | 07      | 2442            | 12      | 2467            |
| 03                                                                       | 2422            | 08      | 2447            | 13      | 2472            |
| 04                                                                       | 2427            | 09      | 2452            |         |                 |
| 05                                                                       | 2432            | 10      | 2457            |         |                 |
| Note: CH 01~CH 13 for 802.11b/g/n(HT20)<br>CH 03~CH 11 for 802.11n(HT40) |                 |         |                 |         |                 |



## 2. Description of Test

### 2.1 Summary of Test

| CLAUSE<br>(ARIB STD-T66)                         | TEST PARAMETER                   | RESULTS |
|--------------------------------------------------|----------------------------------|---------|
| <b>Transmitter Parameters</b>                    |                                  |         |
| 3.2 (2)                                          | Antenna Power                    | PASS    |
| 3.2 (3)                                          | Tolerances for Antenna Power     | PASS    |
| 3.2 (4)                                          | Frequency Tolerance              | PASS    |
| 3.2 (5)                                          | Transmission Rate                | PASS    |
| 3.2 (7)                                          | Occupied Frequency Bandwidth     | PASS    |
| 3.2 (8)                                          | Spread Bandwidth                 | PASS    |
| 3.2 (9)                                          | Process Gain                     | PASS    |
| 3.2 (10)                                         | Number of Carriers               | PASS    |
| 3.2 (11)                                         | Dwell Time                       | N/A     |
| 3.2 (6)                                          | Spurious Emissions               | PASS    |
| /                                                | Interference prevention function | PASS    |
| /                                                | Carrier Sensing function         | PASS    |
| <b>Receiver Parameters</b>                       |                                  |         |
| 3.3 (1)                                          | Secondary Radiated Emissions     | PASS    |
| Note: N/A is an abbreviation for Not Applicable. |                                  |         |



## 2.2 Assistant Equipment Used for Test

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Equipment | Model No. | Serial No.     | Trade Name |
|-----------|-----------|----------------|------------|
| Notebook  | 161301-FC | 18407/00001136 | Xiaomi     |

## 2.3 Block Diagram of Test Setup



Test PC run test software provided by client to control EUT work in test mode as described in clause 2.4

## 2.4 Test Mode Description

The test software (**WCN Combo Tool #1**) was used to control EUT work in Continuous TX mode, and select test channel, wireless mode:

| Tested Mode, Channel and Data Rate Information     |                |           |
|----------------------------------------------------|----------------|-----------|
| Mode                                               | Channel        | Data Rate |
| 802.11b                                            | CH01/CH07/CH13 | 1Mbps     |
| 802.11g                                            | CH01/CH07/CH13 | 6Mbps     |
| 802.11n(HT20)                                      | CH01/CH07/CH13 | 6.5Mbps   |
| 802.11n(HT40)                                      | CH03/CH07/CH11 | 13Mbps    |
| Note: Some modes not apply for all the test items. |                |           |

| Test Voltage Information                                                                                                                                                                                                                                                                                |                                     |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| Power supply voltage 5V DC (Normal)                                                                                                                                                                                                                                                                     | Power supply voltage 5.5V DC (+10%) | Power supply voltage 4.5V DC (-10%) |
| RF module voltage DC 3.3V                                                                                                                                                                                                                                                                               | RF module voltage DC 3.3V           | RF module voltage DC 3.3V           |
| When EUT be operated at 10% from the normal supply voltage, the supply voltage of RF part was varied within 1%. All test cases were done under the normal supply voltage.<br>Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report. |                                     |                                     |

| Equipment No.                                                                                                                          | Factory number  | Instrument name in English | Test range       | Name of manufacturer and model                                                                    | uncertainty                                                  | Calibration time | next time the calibration time |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------|------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------|--------------------------------|
| TB-079                                                                                                                                 | C011238         | Digital Oscilloscope       | 100MHz, 1.25GS/s | Tektronix TDS3014B                                                                                | U=0.4% (K=2)<br>U=0.2% (K=2)<br>U=3.7% (K=2)<br>U=0.2S (K=2) | 2022-06-22       | 2023-06-21                     |
| TB-183                                                                                                                                 | W21091606020P01 | DC power supply            | DC 0-60V, 0-20A  | WTKS POWER WSD-6020                                                                               | DCV:Urel=0.5%<br>DCA:Urel=0.5%                               | 2022-11-29       | 2023-11-28                     |
| Calibration agencies:                                                                                                                  |                 |                            |                  | Guangzhou LiSai Metrology & Test Co., Ltd.<br>CCIC (Shenzhen) Metrology & Testing Service Co.,Ltd |                                                              |                  |                                |
| Note: Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law. |                 |                            |                  |                                                                                                   |                                                              |                  |                                |



## 2.5 Test Conditions

|                   |        |
|-------------------|--------|
| Temperature range | 23.5°C |
| Humidity range    | 49%    |
| Pressure range    | 102kPa |

## 2.6 Measurement Uncertainty (95% confidence levels, k=2)

| Item                        | MU                       | Remark |
|-----------------------------|--------------------------|--------|
| Bandwidth                   | 0.2KHz                   | /      |
| Antenna Power               | 0.33dB                   | /      |
| Frequency Tolerance         | $2.8 \times 10^{-4}$ MHz | /      |
| Conducted spurious emission | 0.13dB                   | /      |

## 2.7 Test Lab Information

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F, Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

**CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

**A2LA Certificate No.: 4750.01**

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

**IC Registration No.: (11950A)**

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.

## 2.8 Test Equipment

| Equipment               | Manufacturer  | Model No. | Serial No. | Last Cal.     | Cal. Due Date |
|-------------------------|---------------|-----------|------------|---------------|---------------|
| Spectrum Analyzer       | Rohde&Schwarz | FSV40-N   | 102197     | Jun. 23, 2022 | Jun. 22, 2023 |
| RF Control Unit         | Tonsced       | JS0806-2  | 21F8060439 | Sep.01.2022   | Aug. 31, 2023 |
| Vector Signal Generator | Agilent       | N5182A    | MY50141294 | Sep.01.2022   | Aug. 31, 2023 |
| Analog Signal Generator | Agilent       | N5181A    | MY48180463 | Sep.01.2022   | Aug. 31, 2023 |

Calibration agencies:

Guangzhou LiSai Metrology & Test Co., Ltd.

CCIC (Shenzhen) Metrology & Testing Service Co.,Ltd

Note: Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law.



### 3. Transmitter Test

#### 3.1 Frequency Error

##### 3.1.1 Test Limit

+/-  $50 \times 10^{-6}$  or less (50ppm)

##### 3.1.2 Block Diagram of Test Setup



##### 3.1.3 Test Procedure

- (1) Configure EUT and assistant system according clause 2.4 and 4.3
- (2) Set EUT work in carrier Tx mode as described in clause 2.4
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:  
Centre Frequency: The centre frequency of the channel under test.  
Resolution BW: 10 KHz.  
Video BW: 10 KHz.  
Span: 1MHz.  
Detector: Peak.  
Trace Mode: Max Hold.
- (4) When the trace is complete, find the peak value of the power envelope and record the frequency.

##### 3.1.4 Deviation From Test Standard

No deviation

##### 3.1.5 Test Result

Please refer to the Appendix A.

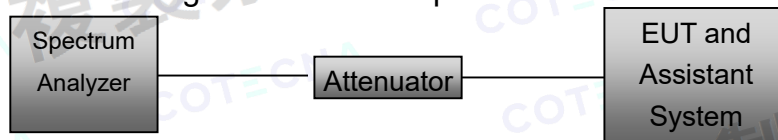


## 3.2 Antenna Power

### 3.2.1 Test Limit

| Mode                 | Limit         | Remark        |
|----------------------|---------------|---------------|
| 802.11b/g/n(HT20)    | ≤10mW/MHz     | Output Power  |
| 802.11n(HT40)        | ≤5mW/MHz      |               |
| Tolerance: -80%~+20% |               |               |
| 802.11b/g/n(HT20)    | ≤12.14dBm/MHz | E.I.R.P Power |
| 802.11n(HT40)        | ≤9.13dBm/MHz  |               |

### 3.2.2 Block Diagram of Test Setup



### 3.2.3 Test Procedure

Connect the UUT to the spectrum analyzer and use the following settings:

Centre Frequency: The centre frequency of the channel under test.

RBW: 1 MHz/VBW: 1 MHz/ Span: Wide enough to cover the complete power envelope of the signal of the EUT. / Detector: Peak. / Trace Mode: Max Hold.

When the trace is complete, find the peak value of the power envelope. Calculated the Maximum deviation and recorded the results.

### 3.2.4 Deviation From Test Standard

No deviation

### 3.2.5 Test Result

Please refer to the Appendix B.

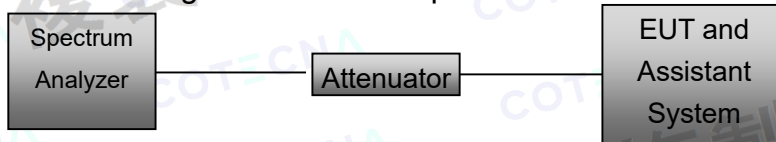


### 3.3 Occupied Bandwidth

#### 3.3.1 Test Limit

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.

#### 3.3.2 Block Diagram of Test Setup



#### 3.3.3 Test Procedure

Setting of SA is following as: RBW:300 kHz / VBW: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold

EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS Device). SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26 MHz (For DSSS or OFDM Device) or 83.5 MHz (For FHSS Device).

#### 3.3.4 Deviation From Test Standard

No deviation

#### 3.3.5 Test Result

Please refer to the Appendix C.

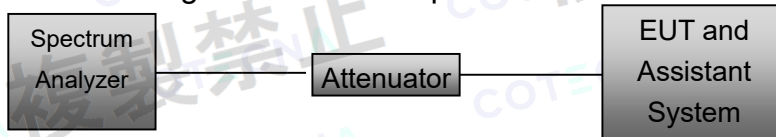


### 3.4 Spread Bandwidth

#### 3.4.1 Test Limit

| ITEM                | LIMIT                | REMARK                              |
|---------------------|----------------------|-------------------------------------|
| SPREADING FACTOR    | $\geq 5$             | Operating frequency 2400 to 2483MHz |
| SPREADING BANDWIDTH | $\geq 500\text{kHz}$ |                                     |

#### 3.4.2 Block Diagram of Test Setup



#### 3.4.3 Test Procedure

Setting of SA is following as: RBW:300 kHz / VBW: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold

EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS Device). SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth and must greater than 500 kHz.

#### 3.4.4 Deviation From Test Standard

No deviation

#### 3.4.5 Test Result

Please refer to the Appendix D.



### 3.5 Spurious Emission of TX

#### 3.5.1 Test Limit

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:

| FREQUENCIES (MHz)       | LIMIT                            |
|-------------------------|----------------------------------|
| 30.0MHz to 2387MHz      | $\leq 2.5\mu\text{W}/\text{MHz}$ |
| 2387.0MHz to 2400.0MHz  | $\leq 25\mu\text{W}/\text{MHz}$  |
| 2483.5MHz to 2496.5MHz  | $\leq 25\mu\text{W}/\text{MHz}$  |
| 2496.5MHz to 13000.0MHz | $\leq 2.5\mu\text{W}/\text{MHz}$ |

#### 3.5.2 Block Diagram of Test Setup



#### 3.5.3 Test Procedure

- (1) Configure EUT and assistant system according clause 2.4 and 8.3
- (2) Set EUT work in test mode as described in clause 2.4
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
  - Below 1G: BW: 100kHz. Video BW: 100kHz.
  - Above 1G: BW: 1MHz. Video BW: 1MHz.
  - Detector: Peak. Trace Mode: Max Hold.

- (4) All the emissions from 30MHz to 13.0GHz were measured and record.

#### 3.5.4 Deviation From Test Standard

No deviation

#### 3.5.5 Test Result

Please refer to the Appendix E.



### 3.6 Number of Carriers

#### 3.6.1 Test Limit

The OFDM system shall have one or more carriers per 1 MHz bandwidth.

#### 3.6.2 Block Diagram of Test Setup



#### 3.6.3 Deviation From Test Standard

No deviation

#### 3.6.4 Test Result

|                             |                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------|
| ENVIRONMENTAL<br>CONDITIONS | 23.6deg.C, 43% RH                                                                 |
| TEST RESULT                 | This device has more than 1 subcarrier in 1MHz, Compliances with the requirement. |

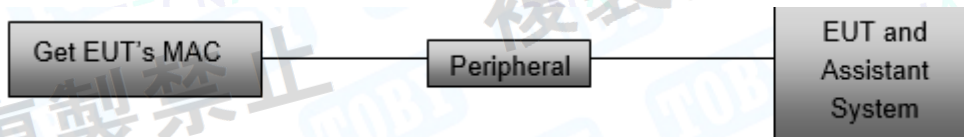


### 3.7 Interference Prevention Function

#### 3.7.1 Test Limit

| Item           | Limits   |
|----------------|----------|
| Identification | ≥48 bits |
| MAC IP List    | MAC Scan |

#### 3.7.2 Block Diagram of Test Setup



#### 3.7.3 Test Procedure

1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes from the counterpart. d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

#### 3.7.4 Deviation From Test Standard

No deviation

#### 3.7.5 Test Result

|              |                   |           |       |
|--------------|-------------------|-----------|-------|
| Temperature: | 25°C              | Humidity: | 55%RH |
| Mac:         | F2:36:42:4B:23:11 |           |       |
| Test result: | CONFORM           |           |       |
| Tested by:   | HUANG             |           |       |

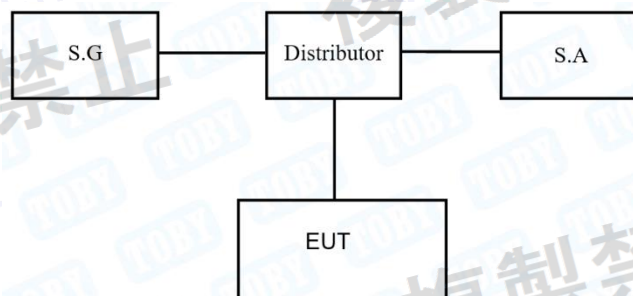


### 3.8 Carrier Sensing Function

#### 3.8.1 Test Limit

| Item           | Limits   |
|----------------|----------|
| Identification | ≥48 bits |
| MAC IP List    | MAC Scan |

#### 3.8.2 Block Diagram of Test Setup



(EUT operate in multiple outputs: The measurement was performed by combiner.)

#### 3.8.3 Test Procedure

1. Turn the standard signal generator output OFF. Leave the equipment under test to be ready for transmission and verify the transmission with the spectrum analyzer.
2. Set the equipment under test to the receiving state.
3. Turn the standard signal generator ON and leave the equipment under test to be ready for transmission and verify with the spectrum analyzer that no transmission is being made.

#### 3.8.4 Deviation From Test Standard

No deviation

#### 3.8.5 Test Result

##### 802.11n (HT40)

| FREQUENCY (MHz) | Pcs (dBm) | C.F (dB) | S.G LEVEL | TEST RESULT |
|-----------------|-----------|----------|-----------|-------------|
| 2422            | -43.8435  | 4.09     | -39.7535  | PASS        |
| 2442            | -43.9149  | 4.16     | -39.7549  | PASS        |
| 2462            | -43.9858  | 4.18     | -39.8058  | PASS        |

##### NOTE:

**Pcs (dBm)** =  $22.79 + Gr - 20\log(F)$ .

**Gr:** Antenna gain (**2.4GHz:1.05dBi**). **F:** Transmission frequency (MHz).

**CF** = Distributor loss + cable loss.



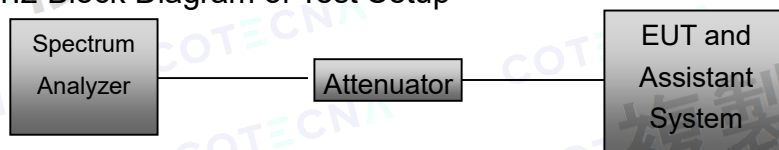
## 4. Receiver Test

### 4.1 Secondary Radiated Emissions

#### 4.1.1 Test Limit

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.

#### 4.1.2 Block Diagram of Test Setup



#### 4.1.3 Test Procedure

- (1) Configure EUT and assistant system according clause 2.4 and 8.3
- (2) Set EUT work in test mode as described in clause 2.4
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Below 1G: BW: 100kHz. Video BW: 100kHz.

Above 1G: BW: 1MHz. Video BW: 1MHz.

Detector: Peak. Trace Mode: Max Hold.

- (4) All the emissions from 30MHz to 13.0GHz were measured and record.

#### 4.1.4 Deviation From Test Standard

No deviation

#### 4.1.5 Test Result

Please refer to the Appendix F.



## 5. Test Setup Photos

Reference to the test report No.: TBR-C-202603-0180-2.

## 6. EUT Photos

Reference to the test report No.: TBR-C-202603-0180-2.

## 7. Label Information

Reference to the test report No.: TBR-C-202603-0180-2.

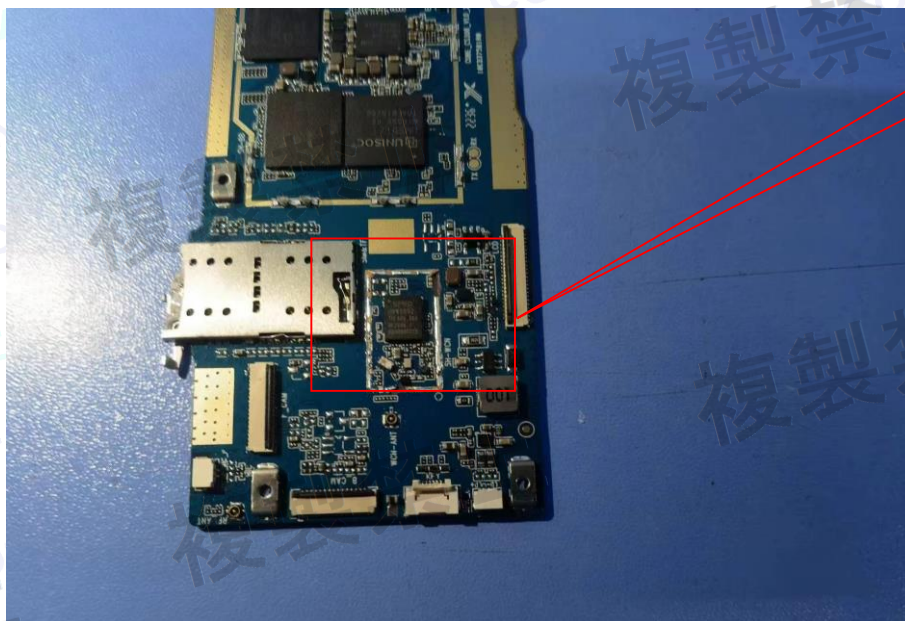
## 8. Construction Protection Confirmation Method

### 8.1 Requirement

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

### 8.2 Confirmation Method

RF module is welded directly to PCB board. So the end user can not to modify or change the RF Parts easily.



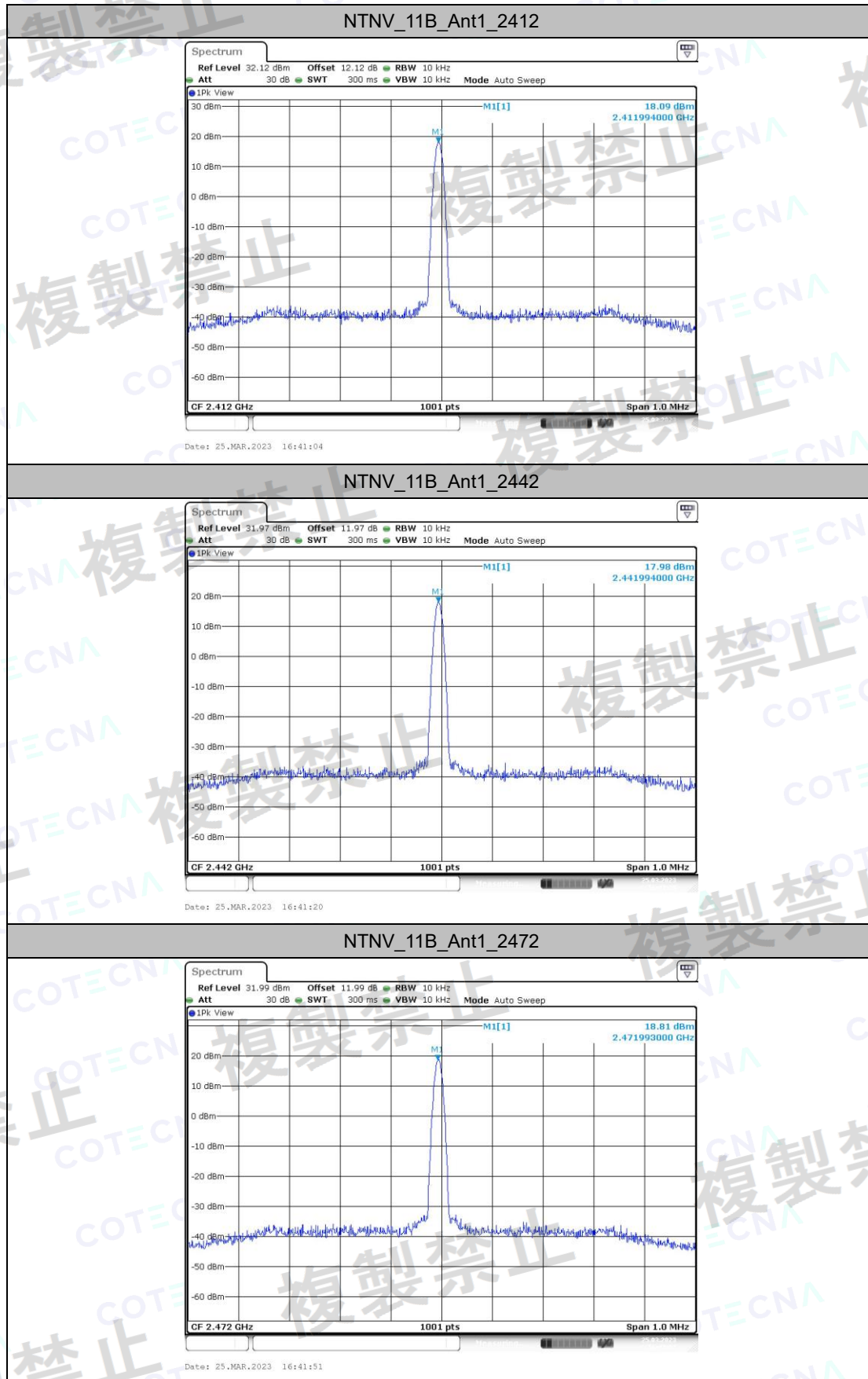
Appendix A: Frequency Error

Test Result

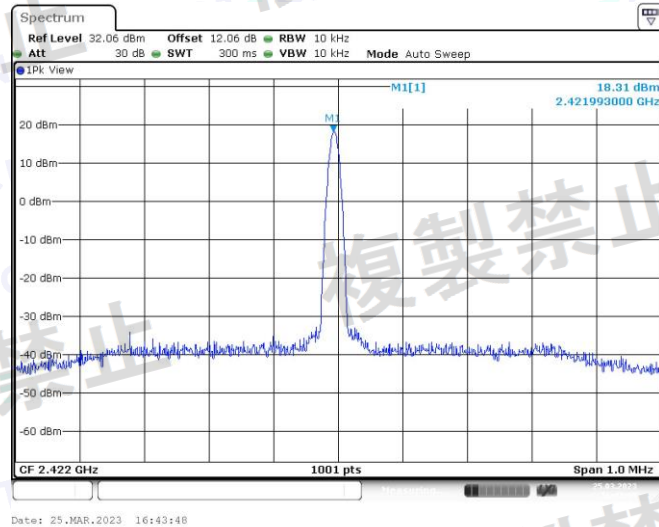
| TestCondition | TestMode  | Antenna | Frequency[MHz] | Result[ppm] | Limit[ppm] | Verdict |
|---------------|-----------|---------|----------------|-------------|------------|---------|
| NTNV          | 11B       | Ant1    | 2412           | -2.48756    | ±50        | PASS    |
|               |           |         | 2442           | -2.45700    | ±50        | PASS    |
|               |           |         | 2472           | -2.83172    | ±50        | PASS    |
|               | 11N40SISO | Ant1    | 2422           | -2.89017    | ±50        | PASS    |
|               |           |         | 2462           | -2.84322    | ±50        | PASS    |



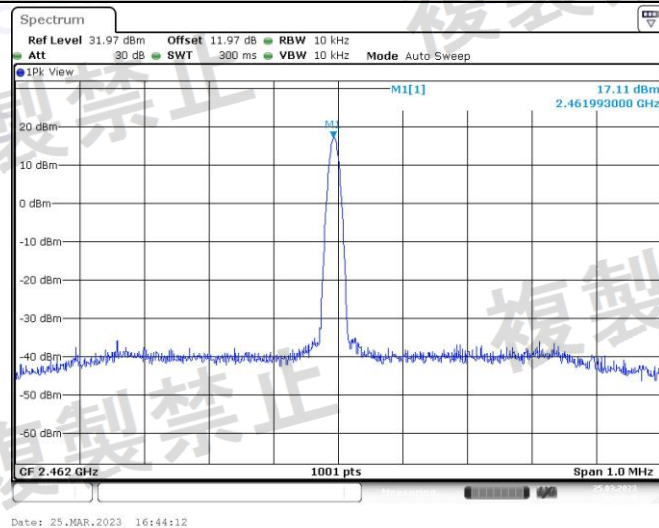
## Test Graphs



NTNV\_11N40SISO\_Ant1\_2422



NTNV\_11N40SISO\_Ant1\_2462



## Appendix B: Antenna Power

### Test Result

| Antenna Power  |           |         |                 |                  |                 |                |         |
|----------------|-----------|---------|-----------------|------------------|-----------------|----------------|---------|
| Test Condition | Test Mode | Antenna | Frequency [MHz] | Result (dBm/MHz) | Result (mW/MHz) | Limit (mW/MHz) | Verdict |
| NTNV           | 11B       | Ant1    | 2412            | 9.07             | 8.0724          | ≤10            | PASS    |
|                |           |         | 2442            | 8.75             | 7.4989          | ≤10            | PASS    |
|                |           |         | 2472            | 9.49             | 8.8920          | ≤10            | PASS    |
|                | 11G       | Ant1    | 2412            | 6.88             | 4.8753          | ≤10            | PASS    |
|                |           |         | 2442            | 6.49             | 4.4566          | ≤10            | PASS    |
|                |           |         | 2472            | 5.40             | 3.4674          | ≤10            | PASS    |
|                | 11N20SISO | Ant1    | 2412            | 4.68             | 2.9376          | ≤10            | PASS    |
|                |           |         | 2442            | 4.82             | 3.0339          | ≤10            | PASS    |
|                |           |         | 2472            | 5.87             | 3.8637          | ≤10            | PASS    |
|                | 11N40SISO | Ant1    | 2422            | 2.05             | 1.6032          | ≤5             | PASS    |
|                |           |         | 2442            | 2.34             | 1.7140          | ≤5             | PASS    |
|                |           |         | 2462            | 0.85             | 1.2162          | ≤5             | PASS    |



| Tolerance      |           |         |                 |                |                     |            |            |         |
|----------------|-----------|---------|-----------------|----------------|---------------------|------------|------------|---------|
| Test Condition | Test Mode | Antenna | Frequency [MHz] | Power (mW/MHz) | RatedPower (mW/MHz) | Result (%) | Limit (%)  | Verdict |
| NTNV           | 11B       | Ant1    | 2412            | 8.0724         | 10                  | -19.28     | -80 to +20 | PASS    |
|                |           |         | 2442            | 7.4989         | 10                  | -25.01     | -80 to +20 | PASS    |
|                |           |         | 2472            | 8.8920         | 10                  | -11.08     | -80 to +20 | PASS    |
|                | 11G       | Ant1    | 2412            | 4.8753         | 5                   | -2.49      | -80 to +20 | PASS    |
|                |           |         | 2442            | 4.4566         | 5                   | -10.87     | -80 to +20 | PASS    |
|                |           |         | 2472            | 3.4674         | 5                   | -30.65     | -80 to +20 | PASS    |
|                | 11N20SISO | Ant1    | 2412            | 2.9376         | 5                   | -41.25     | -80 to +20 | PASS    |
|                |           |         | 2442            | 3.0339         | 5                   | -39.32     | -80 to +20 | PASS    |
|                |           |         | 2472            | 3.8637         | 5                   | -22.73     | -80 to +20 | PASS    |
|                | 11N40SISO | Ant1    | 2422            | 1.6032         | 2                   | -19.84     | -80 to +20 | PASS    |
|                |           |         | 2442            | 1.7140         | 2                   | -14.30     | -80 to +20 | PASS    |
|                |           |         | 2462            | 1.2162         | 2                   | -39.19     | -80 to +20 | PASS    |



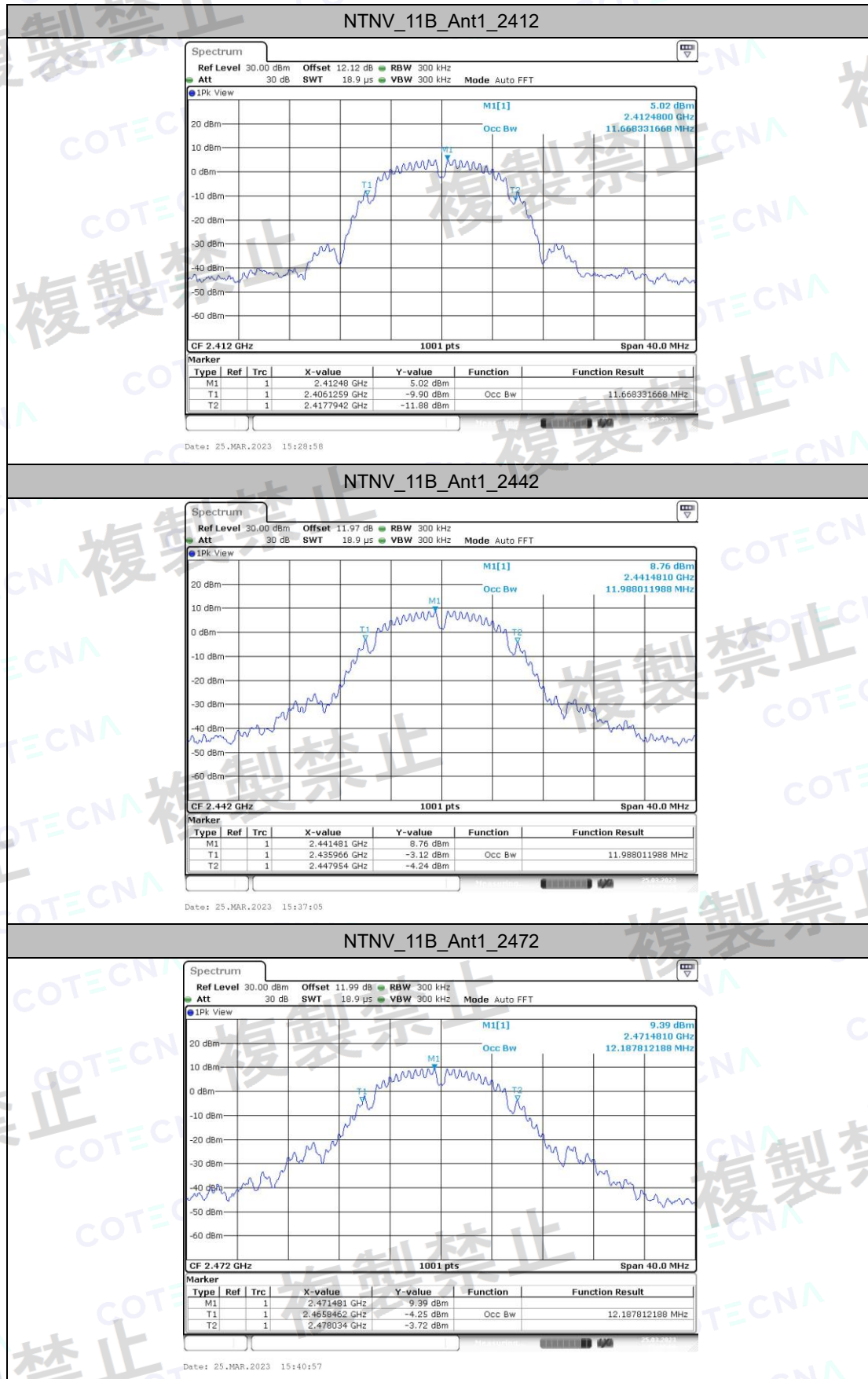
Appendix C: Occupied Bandwidth

Test Result

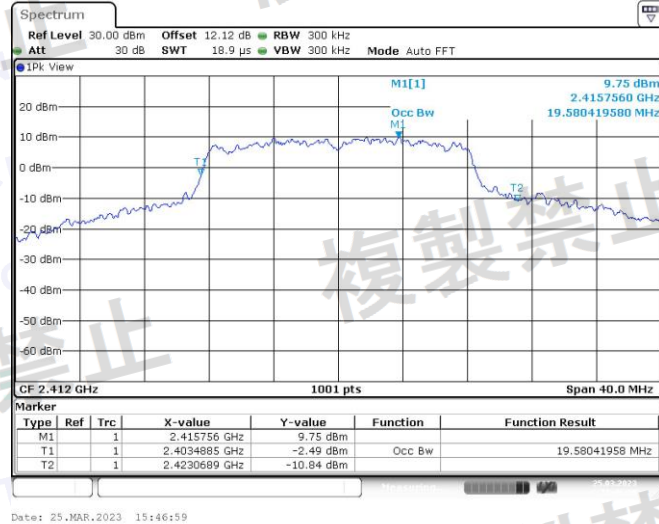
| TestCondition | TestMode  | Antenna | Frequency[MHz] | Result [MHz] | Limit [MHz] | Verdict |
|---------------|-----------|---------|----------------|--------------|-------------|---------|
| NTNV          | 11B       | Ant1    | 2412           | 11.668       | ≤26         | PASS    |
|               |           |         | 2442           | 11.988       | ≤26         | PASS    |
|               |           |         | 2472           | 12.188       | ≤26         | PASS    |
|               | 11G       | Ant1    | 2412           | 19.580       | ≤26         | PASS    |
|               |           |         | 2442           | 17.662       | ≤26         | PASS    |
|               |           |         | 2472           | 18.342       | ≤26         | PASS    |
|               | 11N20SISO | Ant1    | 2412           | 17.702       | ≤26         | PASS    |
|               |           |         | 2442           | 17.862       | ≤26         | PASS    |
|               |           |         | 2472           | 17.782       | ≤26         | PASS    |
|               | 11N40SISO | Ant1    | 2422           | 36.204       | ≤40         | PASS    |
|               |           |         | 2442           | 36.284       | ≤40         | PASS    |
|               |           |         | 2462           | 36.124       | ≤40         | PASS    |



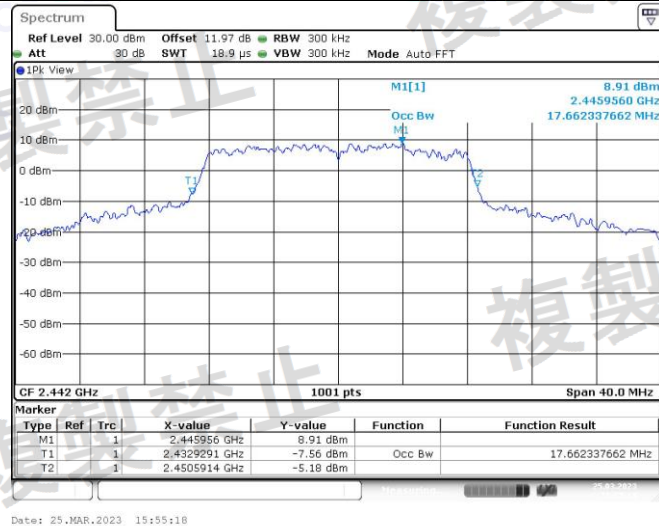
## Test Graphs



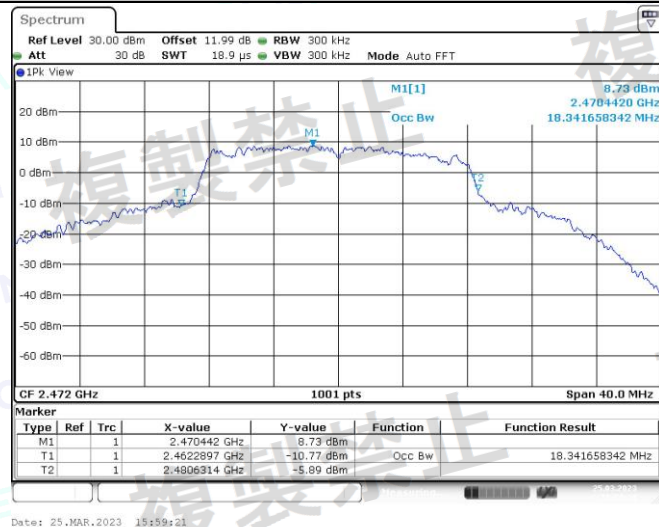
## NTNV\_11G\_Ant1\_2412



## NTNV\_11G\_Ant1\_2442



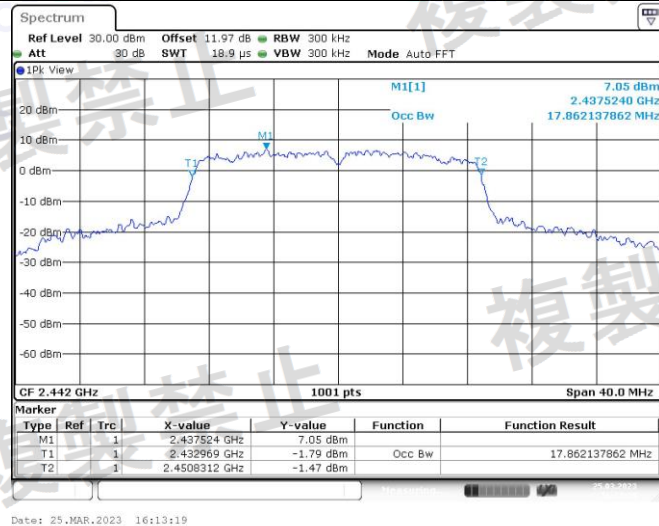
## NTNV\_11G\_Ant1\_2472



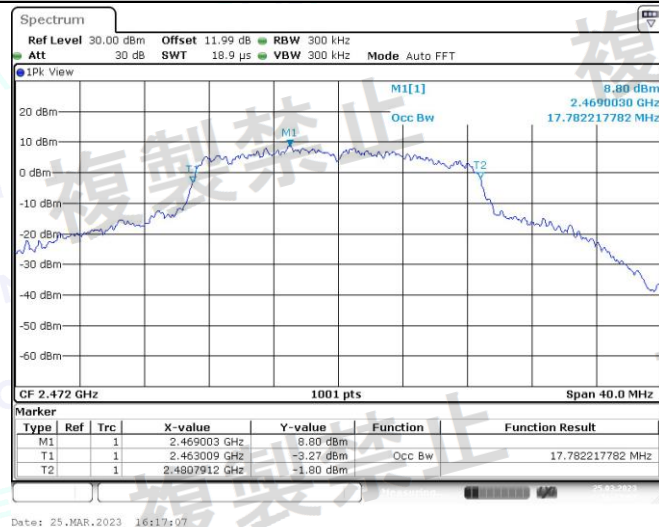
## NTNV\_11N20SISO\_Ant1\_2412



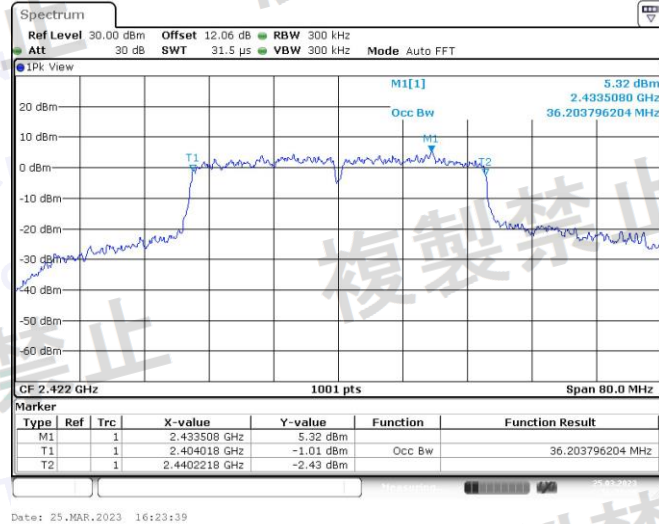
## NTNV\_11N20SISO\_Ant1\_2442



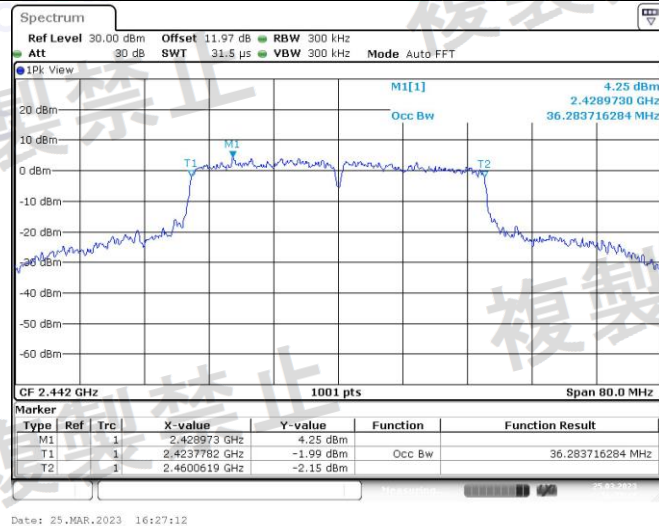
## NTNV\_11N20SISO\_Ant1\_2472



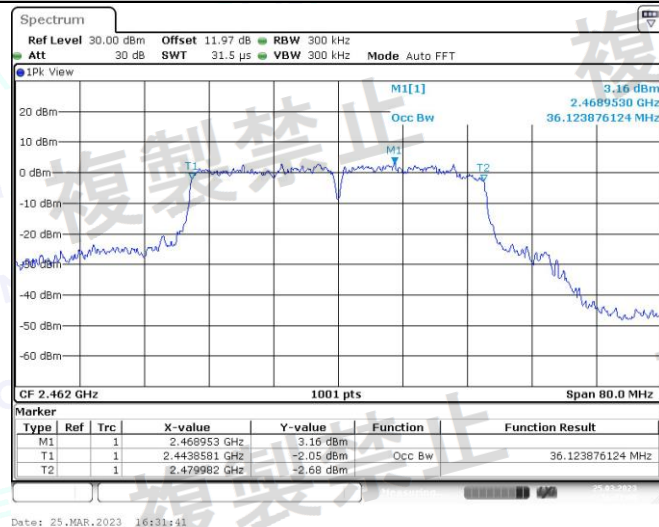
## NTNV\_11N40SISO\_Ant1\_2422



## NTNV\_11N40SISO\_Ant1\_2442



## NTNV\_11N40SISO\_Ant1\_2462



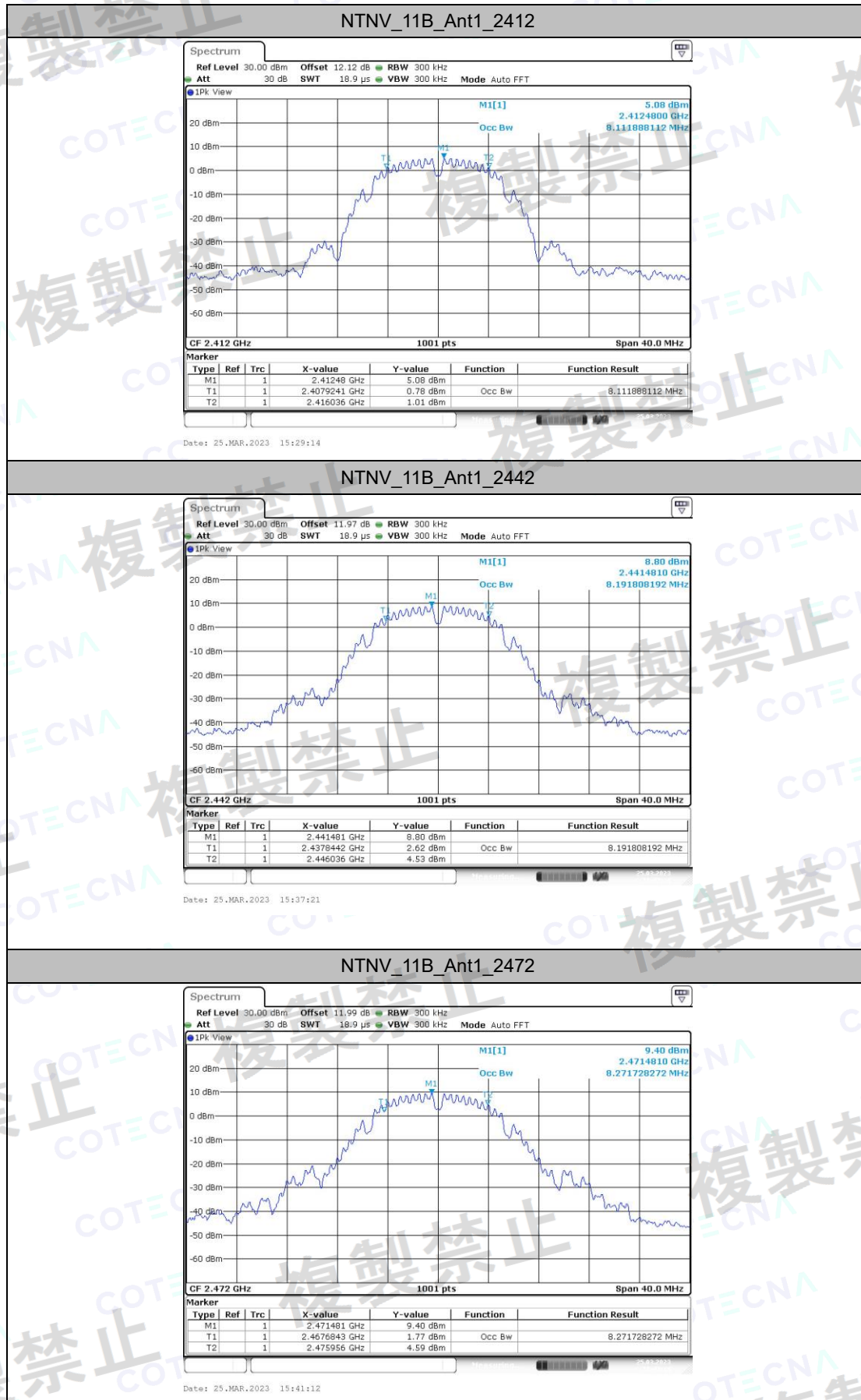
Appendix D: Spread Bandwidth

Test Result

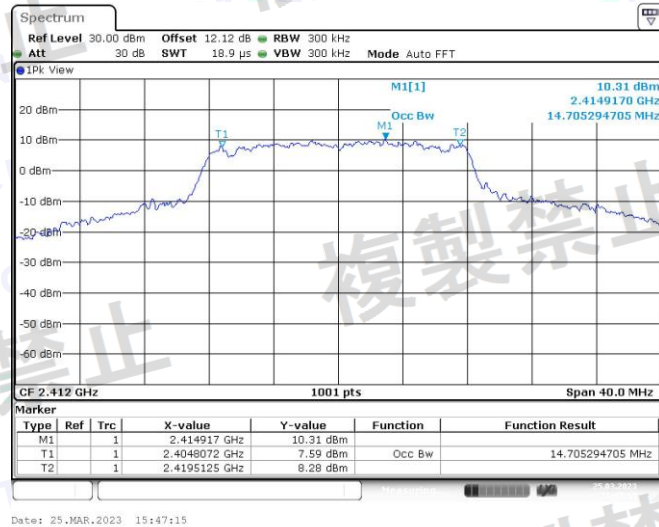
| TestCondition | TestMode  | Antenna | Frequency [MHz] | Result [MHz] | Limit [MHz] | Spread Factor | Limit | Verdict |
|---------------|-----------|---------|-----------------|--------------|-------------|---------------|-------|---------|
| NTNV          | 11B       | Ant1    | 2412            | 8.112        | ≥0.5        | 5.900         | >5    | PASS    |
|               |           |         | 2442            | 8.192        | ≥0.5        | 5.958         | >5    | PASS    |
|               |           |         | 2472            | 8.272        | ≥0.5        | 6.016         | >5    | PASS    |
|               | 11G       | Ant1    | 2412            | 14.705       | ≥0.5        | ---           | ---   | PASS    |
|               |           |         | 2442            | 14.705       | ≥0.5        | ---           | ---   | PASS    |
|               |           |         | 2472            | 14.386       | ≥0.5        | ---           | ---   | PASS    |
|               | 11N20SISO | Ant1    | 2412            | 15.305       | ≥0.5        | ---           | ---   | PASS    |
|               |           |         | 2442            | 15.305       | ≥0.5        | ---           | ---   | PASS    |
|               |           |         | 2472            | 14.665       | ≥0.5        | ---           | ---   | PASS    |
|               | 11N40SISO | Ant1    | 2422            | 31.568       | ≥0.5        | ---           | ---   | PASS    |
|               |           |         | 2442            | 31.968       | ≥0.5        | ---           | ---   | PASS    |
|               |           |         | 2462            | 31.648       | ≥0.5        | ---           | ---   | PASS    |



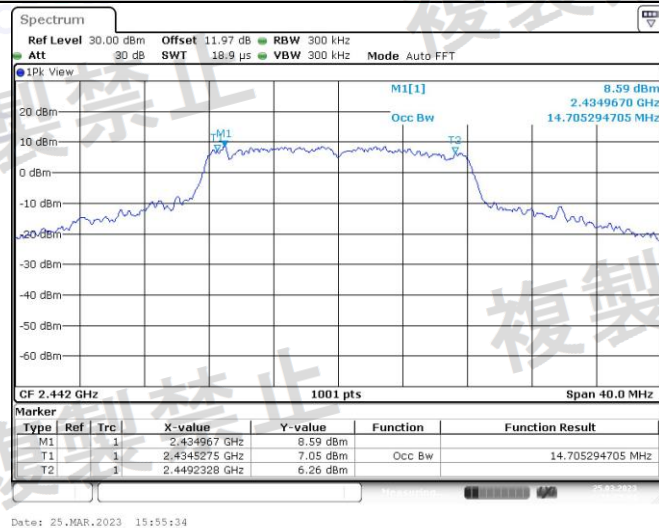
## Test Graphs



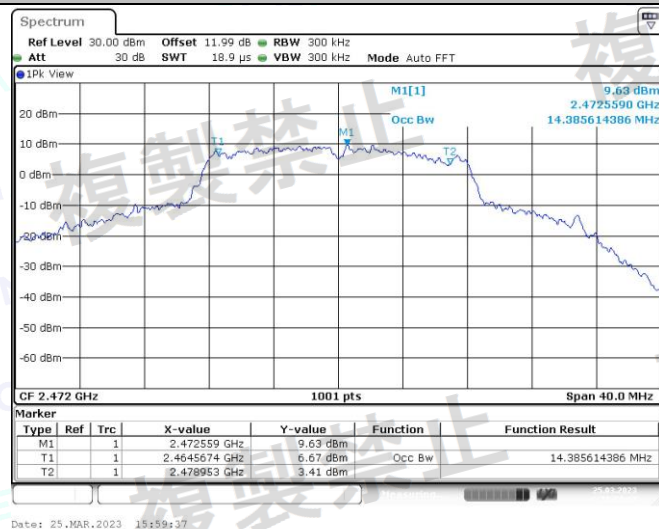
## NTNV\_11G\_Ant1\_2412



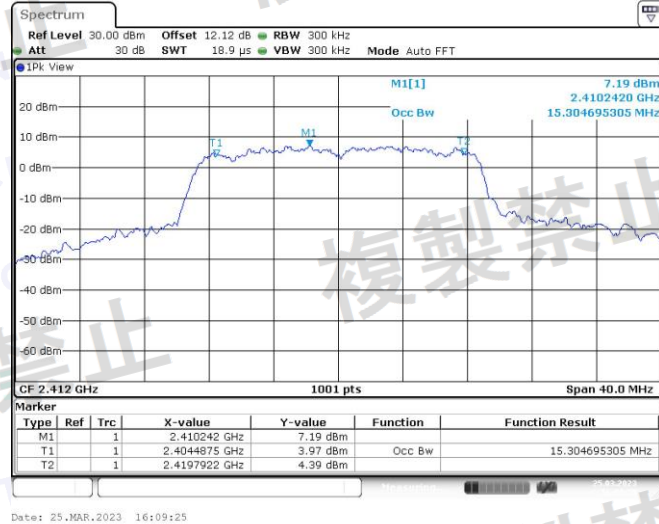
## NTNV\_11G\_Ant1\_2442



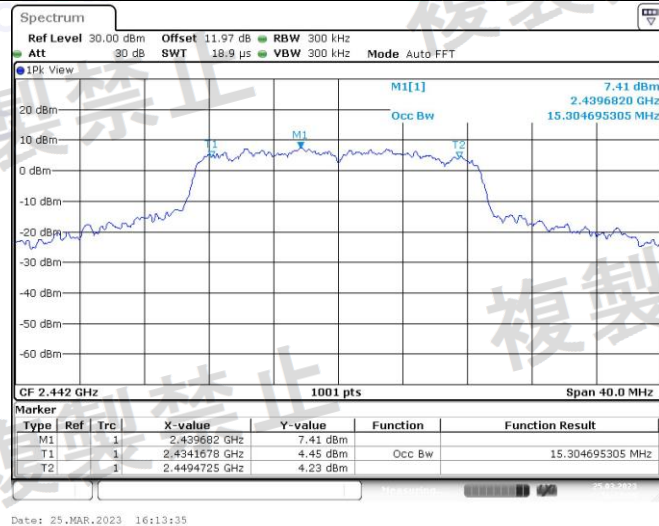
## NTNV\_11G\_Ant1\_2472



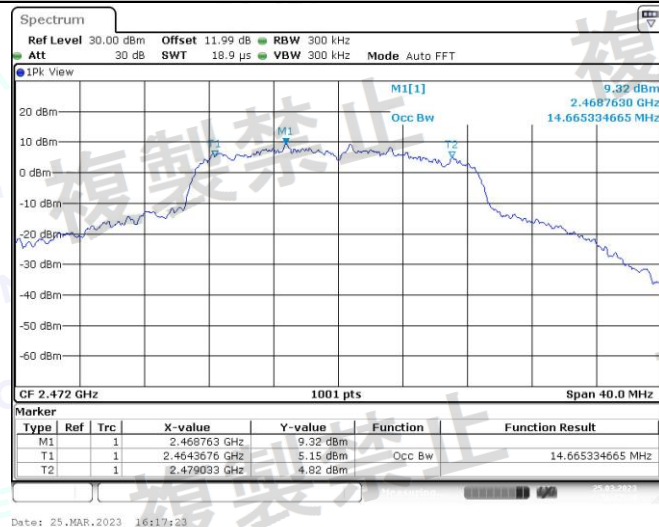
## NTNV\_11N20SISO\_Ant1\_2412



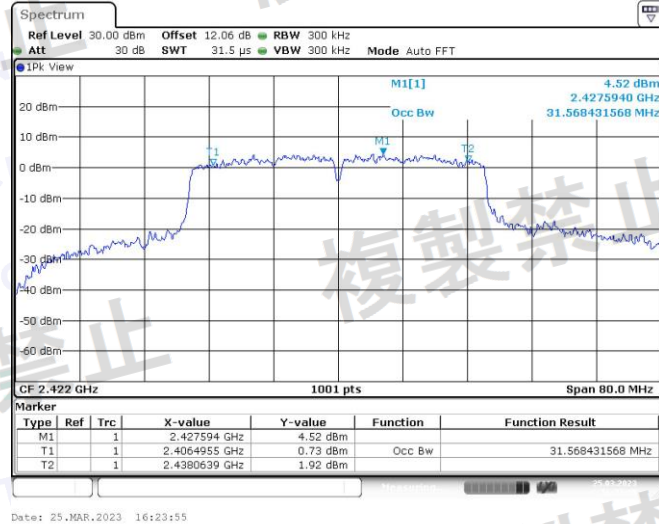
## NTNV\_11N20SISO\_Ant1\_2442



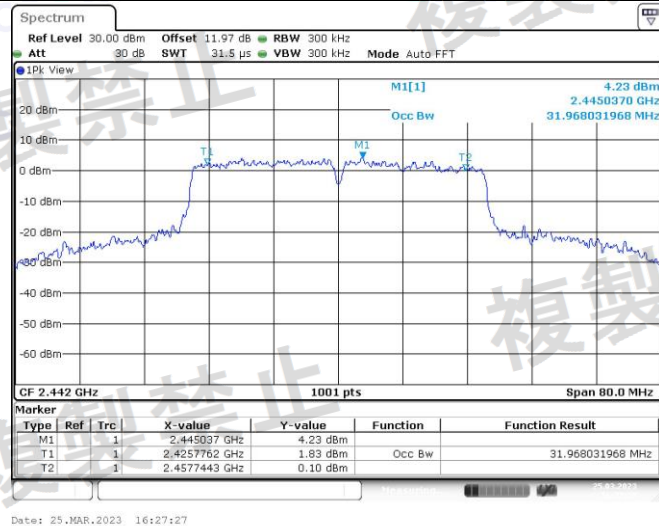
## NTNV\_11N20SISO\_Ant1\_2472



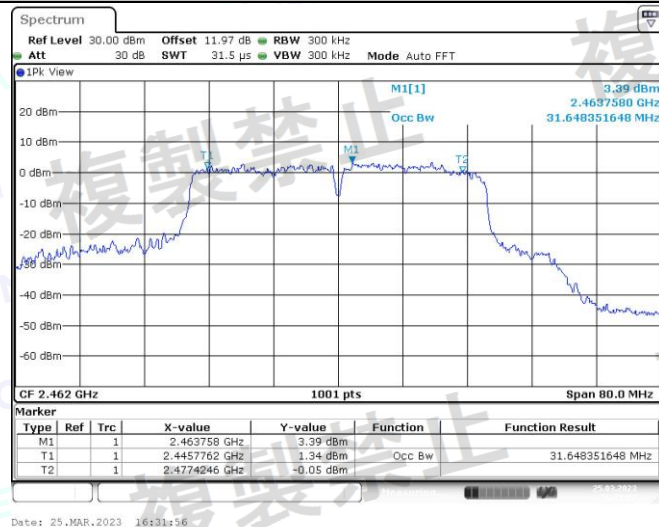
## NTNV\_11N40SISO\_Ant1\_2422



## NTNV\_11N40SISO\_Ant1\_2442



## NTNV\_11N40SISO\_Ant1\_2462



## Appendix E: Spurious Emission of TX

### Test Result

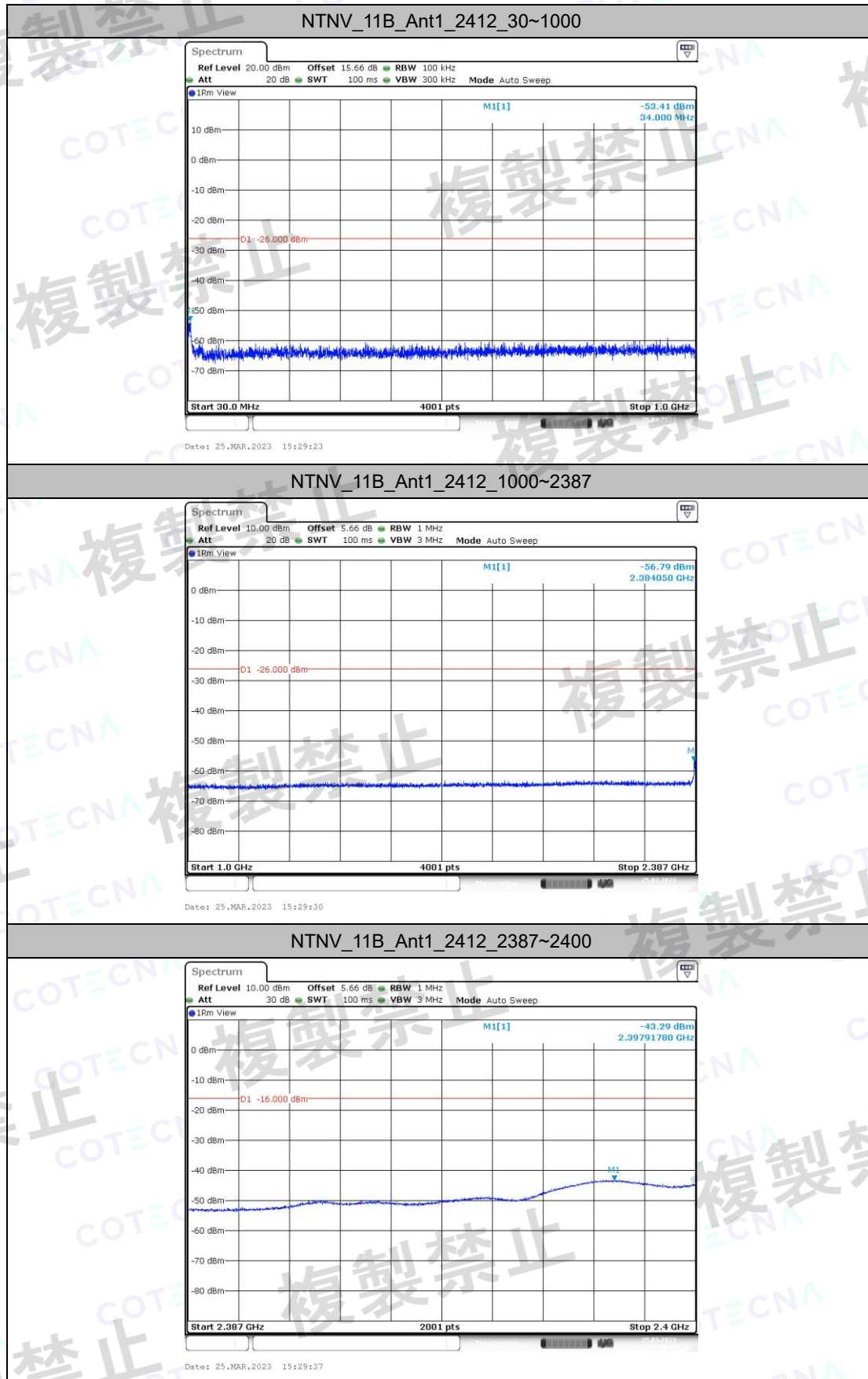
| TestCondition | TestMode      | Antenna | Frequency<br>[MHz] | Freq.Range<br>[MHz] | Result<br>[dBm] | Limit<br>[dBm] | Result<br>[μW] | Limit<br>[μW] | Verdict |
|---------------|---------------|---------|--------------------|---------------------|-----------------|----------------|----------------|---------------|---------|
| NTNV          | 11B           | Ant1    | 2412               | 30~1000             | -53.41          | ≤-26           | 0.00456        | ≤2.5          | PASS    |
|               |               |         |                    | 1000~2387           | -56.79          | ≤-26           | 0.00209        | ≤2.5          | PASS    |
|               |               |         |                    | 2387~2400           | -43.29          | ≤-16           | 0.04688        | ≤25           | PASS    |
|               |               |         |                    | 2483.5~2496.5       | -52.86          | ≤-16           | 0.00518        | ≤25           | PASS    |
|               |               |         |                    | 2496.5~13000        | -52.95          | ≤-26           | 0.00507        | ≤2.5          | PASS    |
|               |               | Ant1    | 2442               | 30~1000             | -54.64          | ≤-26           | 0.00344        | ≤2.5          | PASS    |
|               |               |         |                    | 1000~2387           | -61.43          | ≤-26           | 0.00072        | ≤2.5          | PASS    |
|               |               |         |                    | 2387~2400           | -52.65          | ≤-16           | 0.00543        | ≤25           | PASS    |
|               |               |         |                    | 2483.5~2496.5       | -52.59          | ≤-16           | 0.00551        | ≤25           | PASS    |
|               |               |         |                    | 2496.5~13000        | -47.70          | ≤-26           | 0.01698        | ≤2.5          | PASS    |
|               |               | Ant1    | 2472               | 30~1000             | -55.25          | ≤-26           | 0.00299        | ≤2.5          | PASS    |
|               |               |         |                    | 1000~2387           | -62.80          | ≤-26           | 0.00052        | ≤2.5          | PASS    |
|               |               |         |                    | 2387~2400           | -52.87          | ≤-16           | 0.00516        | ≤25           | PASS    |
|               |               |         |                    | 2483.5~2496.5       | -26.37          | ≤-16           | 2.30675        | ≤25           | PASS    |
|               |               |         |                    | 2496.5~13000        | -50.66          | ≤-26           | 0.00859        | ≤2.5          | PASS    |
|               | 11G           | Ant1    | 2412               | 30~1000             | -52.63          | ≤-26           | 0.00546        | ≤2.5          | PASS    |
|               |               |         |                    | 1000~2387           | -40.38          | ≤-26           | 0.09162        | ≤2.5          | PASS    |
|               |               |         |                    | 2387~2400           | -16.45          | ≤-16           | 22.64644       | ≤25           | PASS    |
|               |               |         |                    | 2483.5~2496.5       | -52.40          | ≤-16           | 0.00575        | ≤25           | PASS    |
|               |               |         |                    | 2496.5~13000        | -51.84          | ≤-26           | 0.00655        | ≤2.5          | PASS    |
|               |               | Ant1    | 2442               | 30~1000             | -55.88          | ≤-26           | 0.00258        | ≤2.5          | PASS    |
|               |               |         |                    | 1000~2387           | -59.48          | ≤-26           | 0.00113        | ≤2.5          | PASS    |
|               |               |         |                    | 2387~2400           | -48.90          | ≤-16           | 0.01288        | ≤25           | PASS    |
|               |               |         |                    | 2483.5~2496.5       | -47.05          | ≤-16           | 0.01972        | ≤25           | PASS    |
|               |               |         |                    | 2496.5~13000        | -51.92          | ≤-26           | 0.00643        | ≤2.5          | PASS    |
|               |               | Ant1    | 2472               | 30~1000             | -54.74          | ≤-26           | 0.00336        | ≤2.5          | PASS    |
|               |               |         |                    | 1000~2387           | -62.40          | ≤-26           | 0.00058        | ≤2.5          | PASS    |
|               |               |         |                    | 2387~2400           | -52.83          | ≤-16           | 0.00521        | ≤25           | PASS    |
|               |               |         |                    | 2483.5~2496.5       | -17.97          | ≤-16           | 15.95879       | ≤25           | PASS    |
|               |               |         |                    | 2496.5~13000        | -54.09          | ≤-26           | 0.00390        | ≤2.5          | PASS    |
|               | 11N20SIS<br>O | Ant1    | 2412               | 30~1000             | -54.28          | ≤-26           | 0.00373        | ≤2.5          | PASS    |
|               |               |         |                    | 1000~2387           | -45.34          | ≤-26           | 0.02924        | ≤2.5          | PASS    |
|               |               |         |                    | 2387~2400           | -22.84          | ≤-16           | 5.19996        | ≤25           | PASS    |
|               |               |         |                    | 2483.5~2496.5       | -52.70          | ≤-16           | 0.00537        | ≤25           | PASS    |
|               |               |         |                    | 2496.5~13000        | -54.21          | ≤-26           | 0.00379        | ≤2.5          | PASS    |
|               |               | Ant1    | 2442               | 30~1000             | -54.88          | ≤-26           | 0.00325        | ≤2.5          | PASS    |
|               |               |         |                    | 1000~2387           | -61.28          | ≤-26           | 0.00074        | ≤2.5          | PASS    |
|               |               |         |                    | 2387~2400           | -51.80          | ≤-16           | 0.00661        | ≤25           | PASS    |
|               |               |         |                    | 2483.5~2496.5       | -50.48          | ≤-16           | 0.00895        | ≤25           | PASS    |
|               |               |         |                    | 2496.5~13000        | -53.37          | ≤-26           | 0.00460        | ≤2.5          | PASS    |



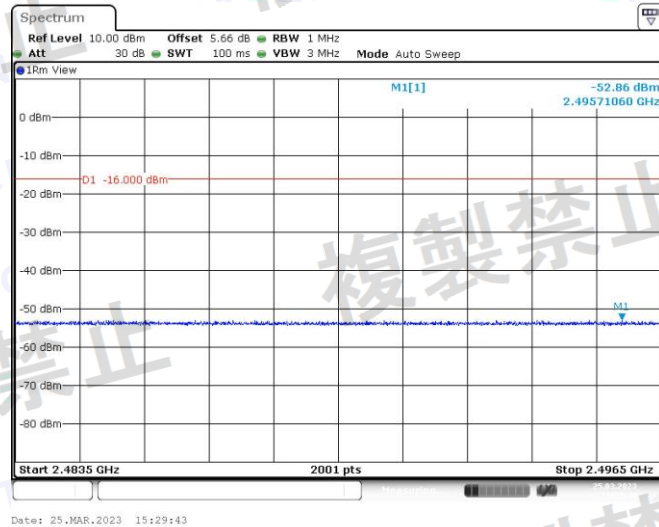
|  |               |      |      |               |        |      |          |      |      |
|--|---------------|------|------|---------------|--------|------|----------|------|------|
|  |               |      | 2472 | 30~1000       | -54.35 | ≤-26 | 0.00367  | ≤2.5 | PASS |
|  |               |      |      | 1000~2387     | -61.87 | ≤-26 | 0.00065  | ≤2.5 | PASS |
|  |               |      |      | 2387~2400     | -53.06 | ≤-16 | 0.00494  | ≤25  | PASS |
|  |               |      |      | 2483.5~2496.5 | -16.71 | ≤-16 | 21.33045 | ≤25  | PASS |
|  |               |      |      | 2496.5~13000  | -54.77 | ≤-26 | 0.00333  | ≤2.5 | PASS |
|  | 11N40SIS<br>O | Ant1 | 2422 | 30~1000       | -53.63 | ≤-26 | 0.00434  | ≤2.5 | PASS |
|  |               |      |      | 1000~2387     | -32.65 | ≤-26 | 0.54325  | ≤2.5 | PASS |
|  |               |      |      | 2387~2400     | -24.28 | ≤-16 | 3.73250  | ≤25  | PASS |
|  |               |      |      | 2483.5~2496.5 | -43.90 | ≤-16 | 0.04074  | ≤25  | PASS |
|  |               |      |      | 2496.5~13000  | -53.80 | ≤-26 | 0.00417  | ≤2.5 | PASS |
|  |               |      | 2442 | 30~1000       | -54.79 | ≤-26 | 0.00332  | ≤2.5 | PASS |
|  |               |      |      | 1000~2387     | -50.61 | ≤-26 | 0.00869  | ≤2.5 | PASS |
|  |               |      |      | 2387~2400     | -32.61 | ≤-16 | 0.54828  | ≤25  | PASS |
|  |               |      |      | 2483.5~2496.5 | -32.01 | ≤-16 | 0.62951  | ≤25  | PASS |
|  |               |      |      | 2496.5~13000  | -54.21 | ≤-26 | 0.00379  | ≤2.5 | PASS |
|  |               |      | 2462 | 30~1000       | -59.75 | ≤-26 | 0.00106  | ≤2.5 | PASS |
|  |               |      |      | 1000~2387     | -63.02 | ≤-26 | 0.00050  | ≤2.5 | PASS |
|  |               |      |      | 2387~2400     | -53.39 | ≤-16 | 0.00458  | ≤25  | PASS |
|  |               |      |      | 2483.5~2496.5 | -53.04 | ≤-16 | 0.00497  | ≤25  | PASS |
|  |               |      |      | 2496.5~13000  | -54.71 | ≤-26 | 0.00338  | ≤2.5 | PASS |



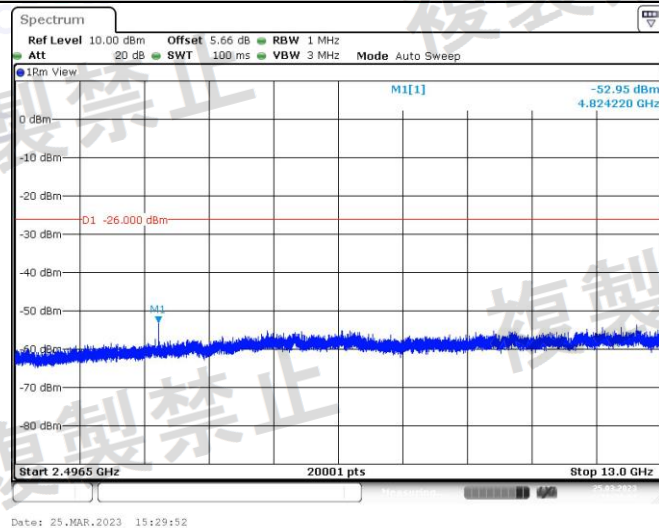
## Test Graphs



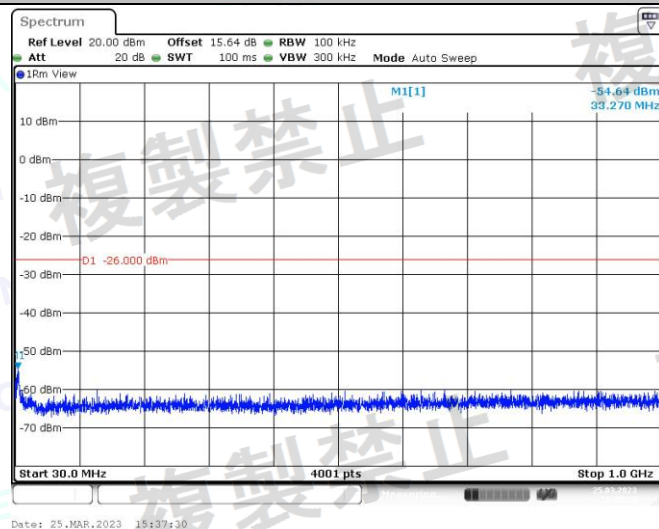
## NTNV\_11B\_Ant1\_2412\_2483.5~2496.5



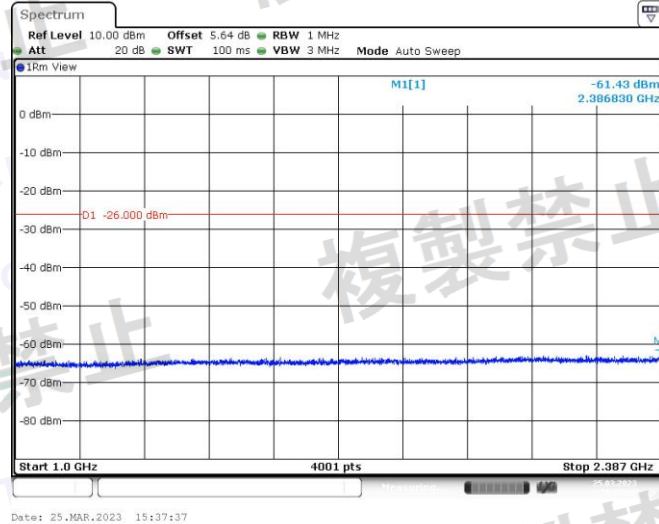
## NTNV\_11B\_Ant1\_2412\_2496.5~13000



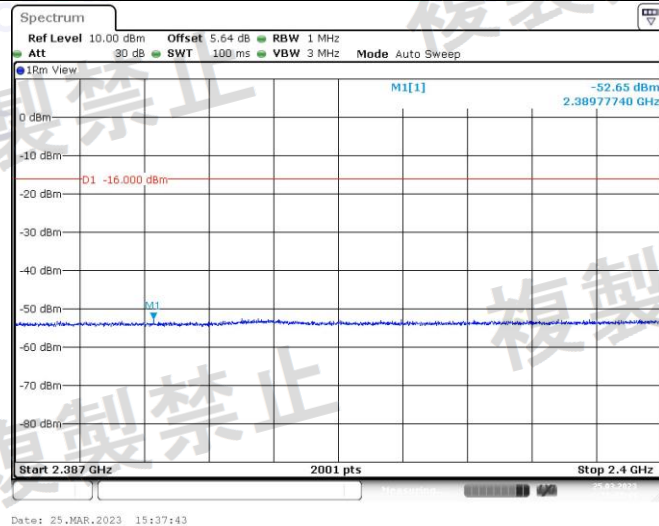
## NTNV\_11B\_Ant1\_2442\_30~1000



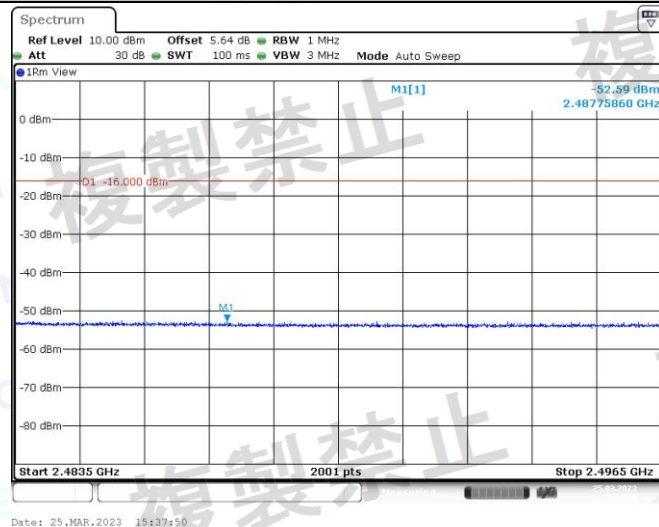
## NTNV\_11B\_Ant1\_2442\_1000~2387



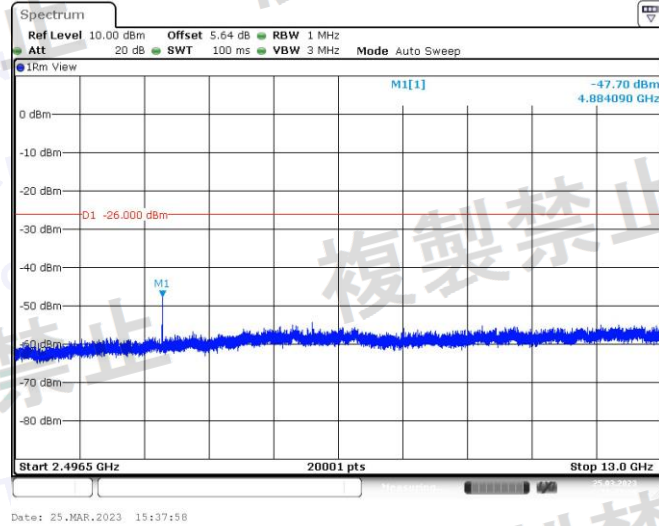
## NTNV\_11B\_Ant1\_2442\_2387~2400



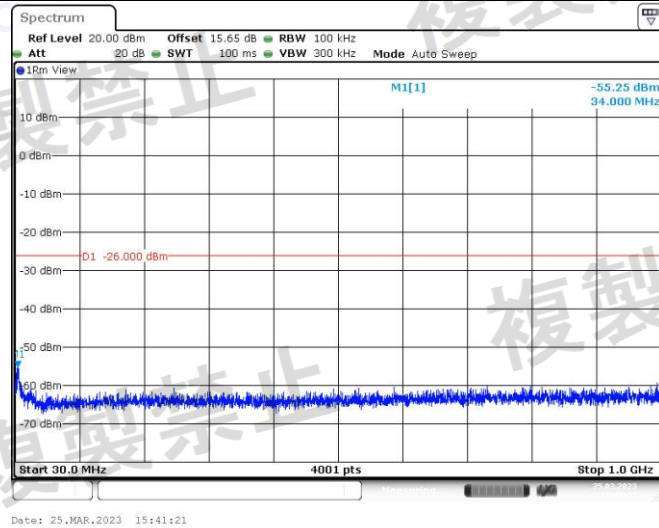
## NTNV\_11B\_Ant1\_2442\_2483.5~2496.5



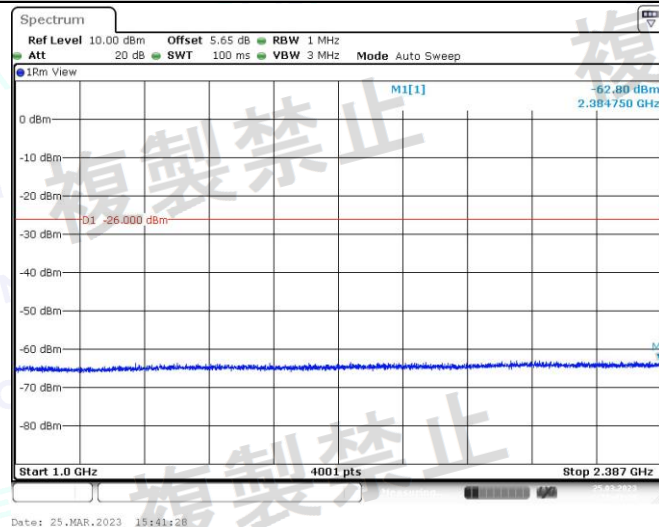
## NTNV\_11B\_Ant1\_2442\_2496.5~13000



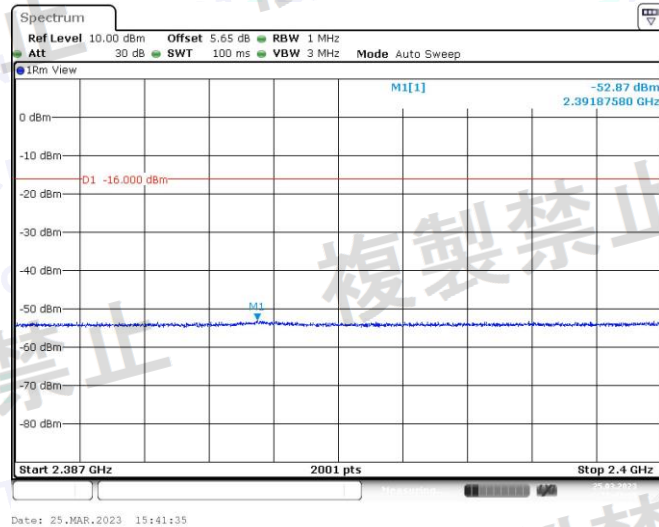
## NTNV\_11B\_Ant1\_2472\_30~1000



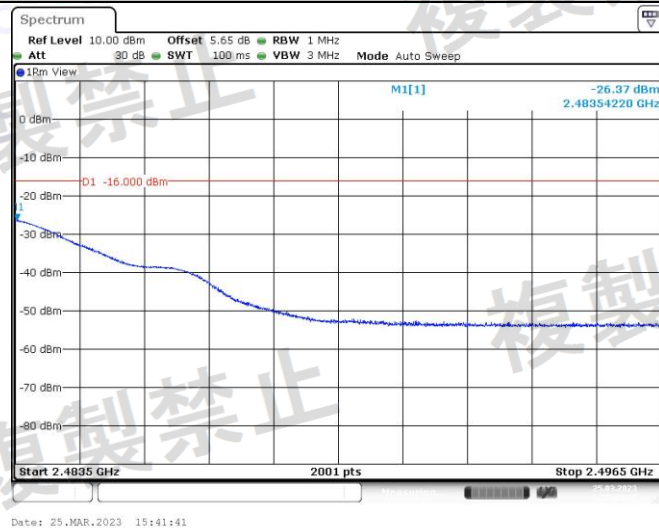
## NTNV\_11B\_Ant1\_2472\_1000~2387



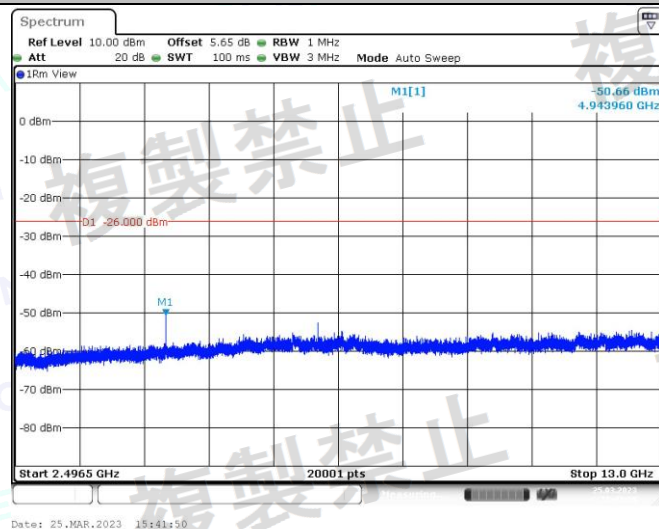
## NTNV\_11B\_Ant1\_2472\_2387~2400



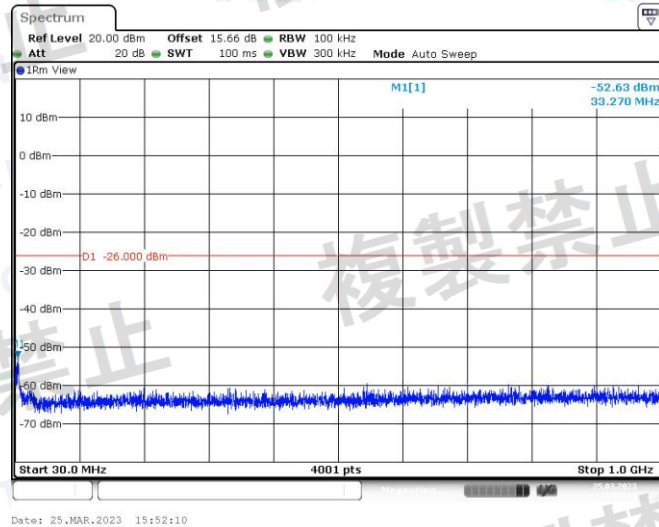
## NTNV\_11B\_Ant1\_2472\_2483.5~2496.5



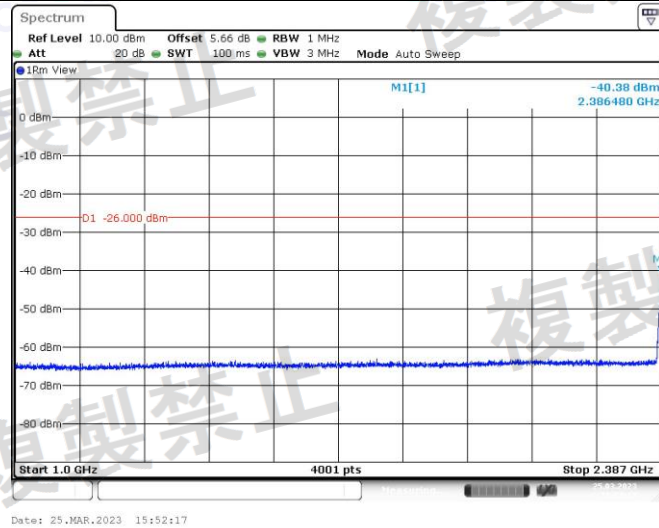
## NTNV\_11B\_Ant1\_2472\_2496.5~13000



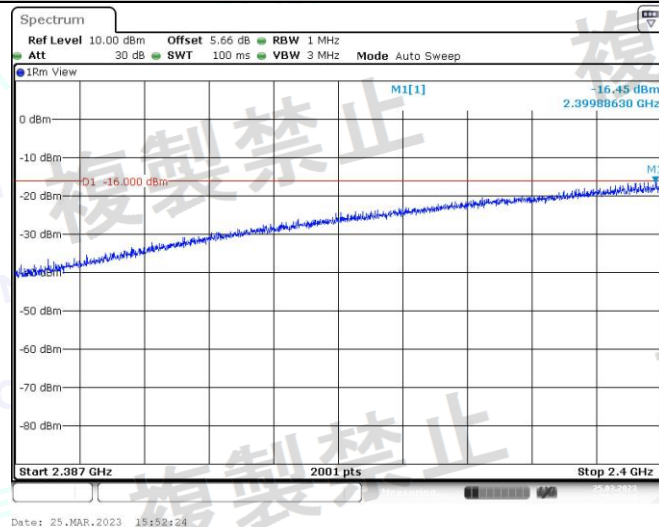
## NTNV\_11G\_Ant1\_2412\_30~1000



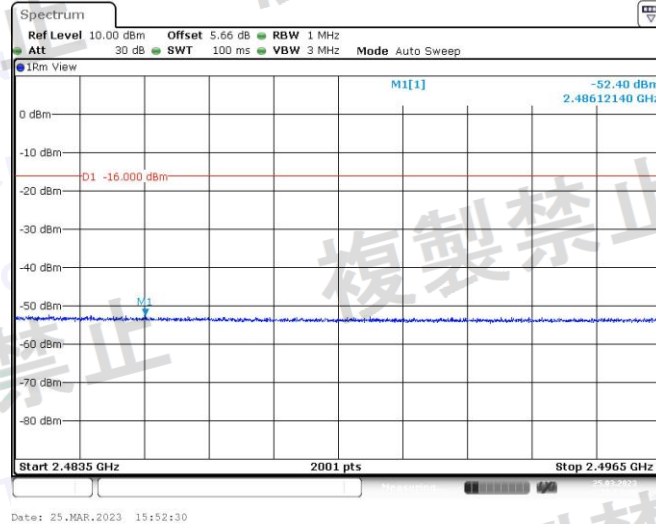
## NTNV\_11G\_Ant1\_2412\_1000~2387



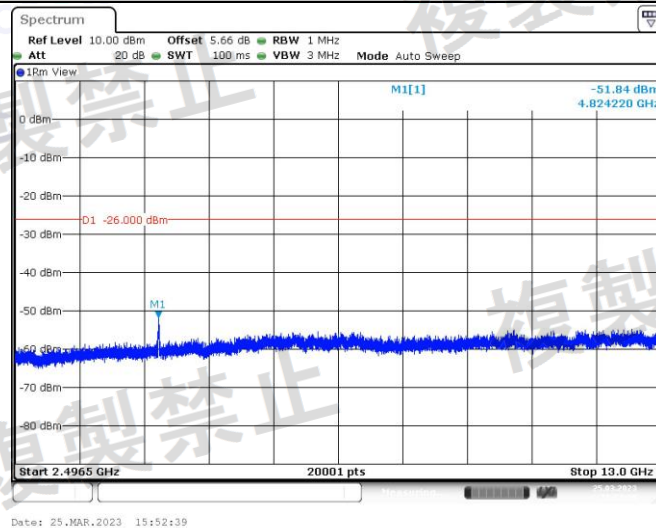
## NTNV\_11G\_Ant1\_2412\_2387~2400



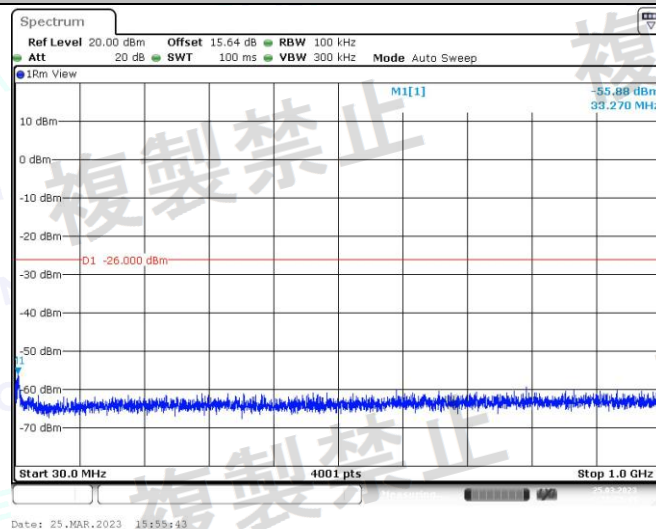
## NTNV\_11G\_Ant1\_2412\_2483.5~2496.5



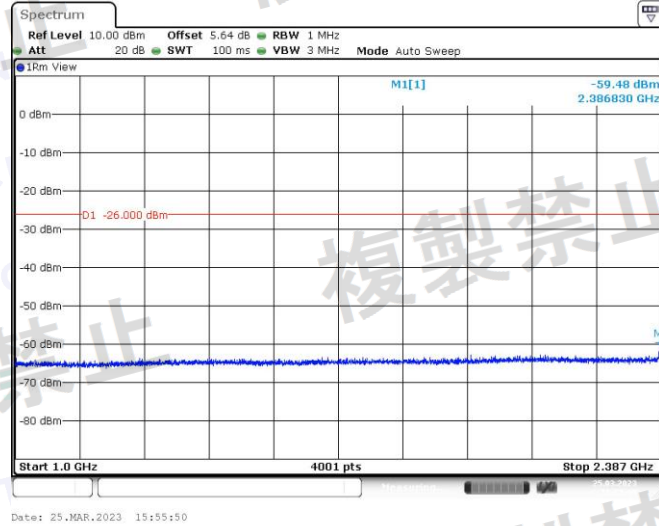
## NTNV\_11G\_Ant1\_2412\_2496.5~13000



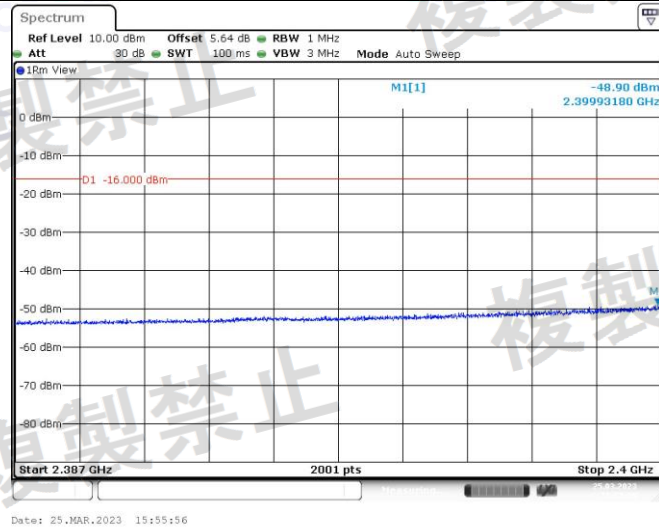
## NTNV\_11G\_Ant1\_2442\_30~1000



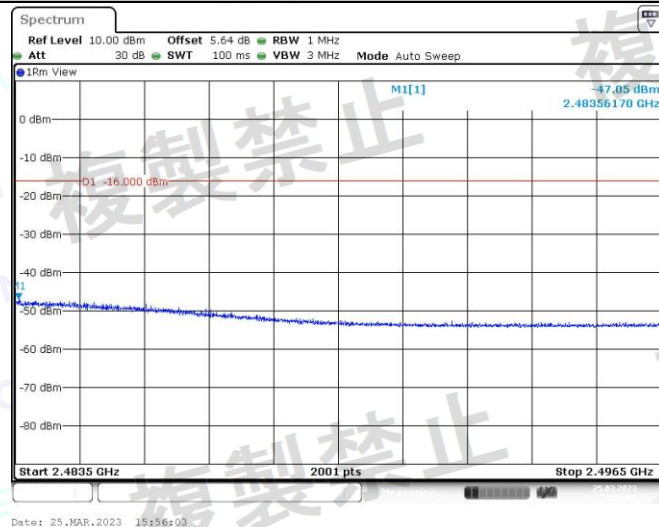
## NTNV\_11G\_Ant1\_2442\_1000~2387



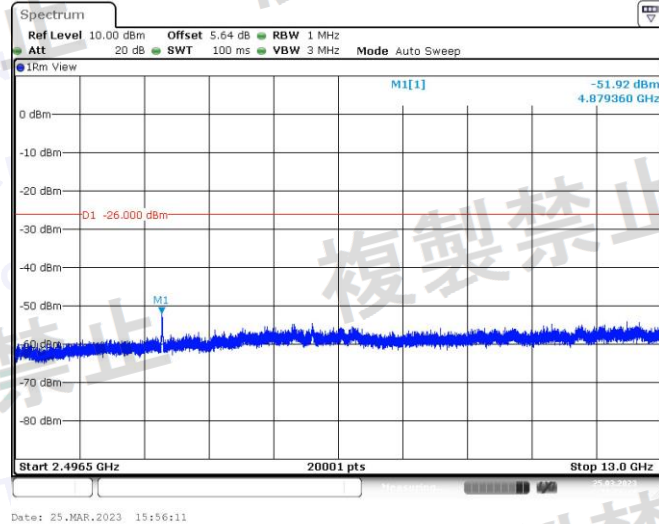
## NTNV\_11G\_Ant1\_2442\_2387~2400



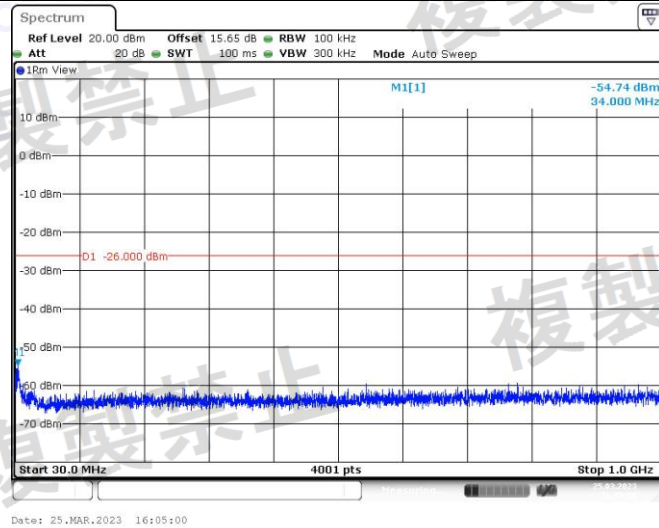
## NTNV\_11G\_Ant1\_2442\_2483.5~2496.5



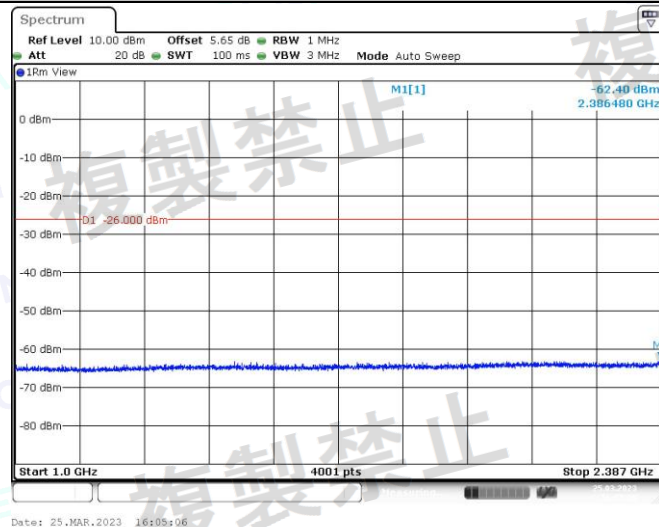
## NTNV\_11G\_Ant1\_2442\_2496.5~13000



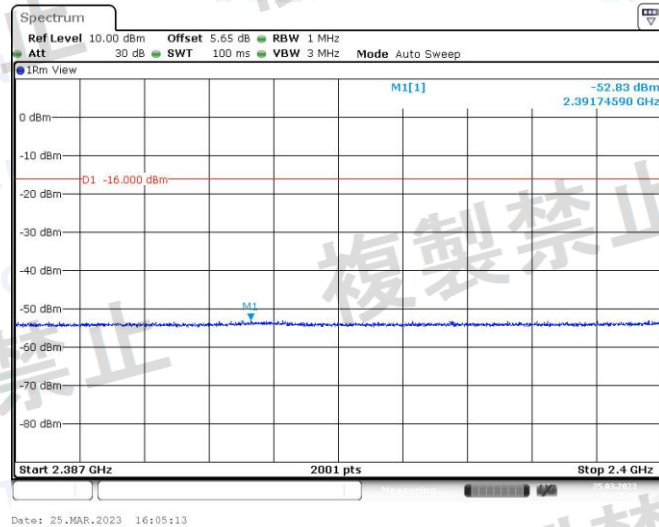
## NTNV\_11G\_Ant1\_2472\_30~1000



## NTNV\_11G\_Ant1\_2472\_1000~2387



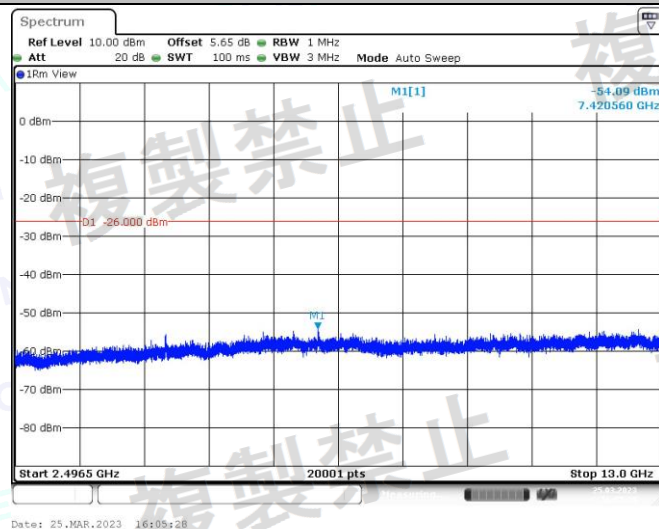
## NTNV\_11G\_Ant1\_2472\_2387~2400



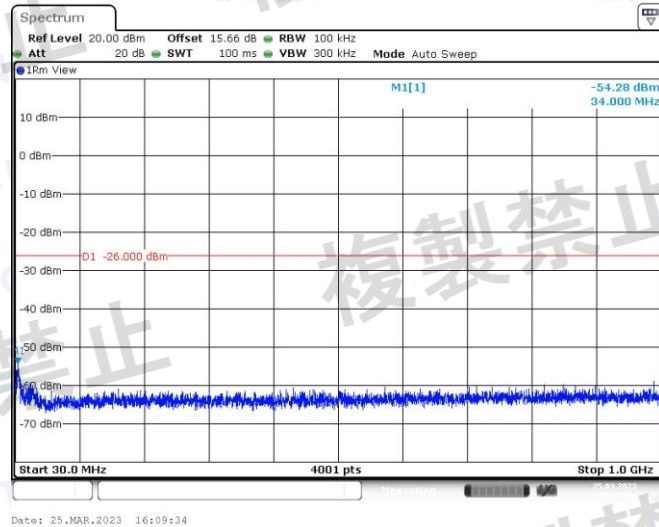
## NTNV\_11G\_Ant1\_2472\_2483.5~2496.5



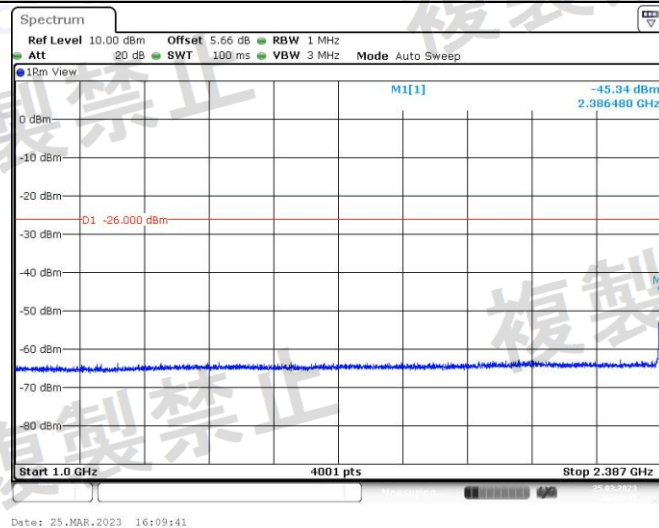
## NTNV\_11G\_Ant1\_2472\_2496.5~13000



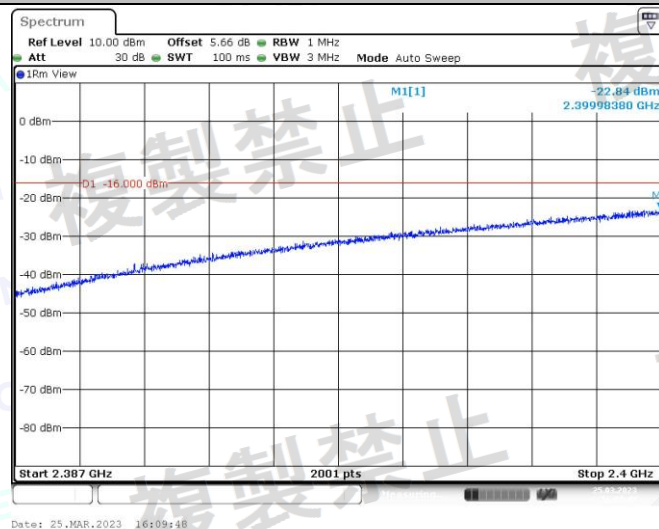
## NTNV\_11N20SISO\_Ant1\_2412\_30~1000



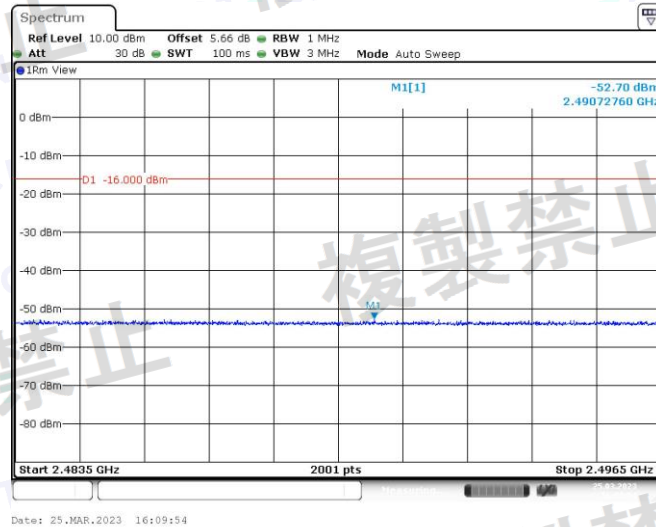
## NTNV\_11N20SISO\_Ant1\_2412\_1000~2387



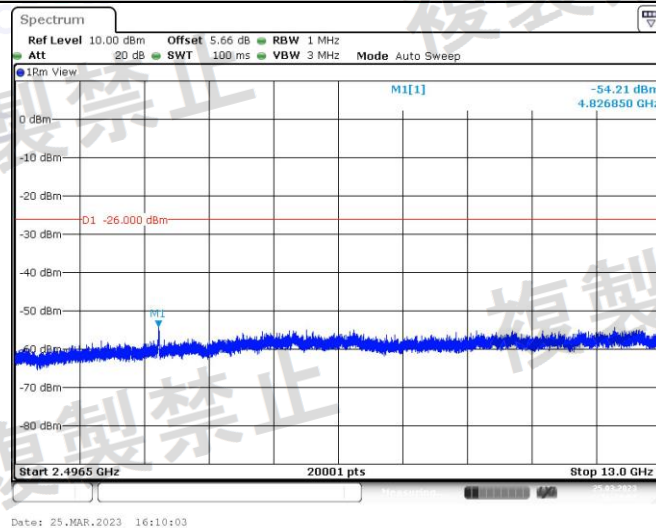
## NTNV\_11N20SISO\_Ant1\_2412\_2387~2400



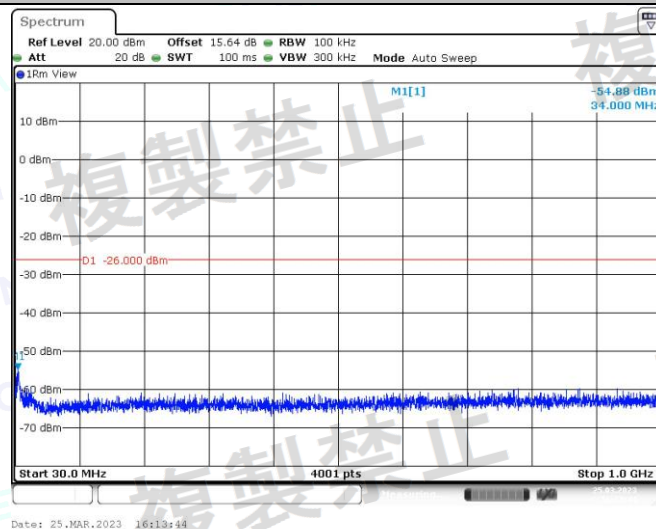
## NTNV\_11N20SISO\_Ant1\_2412\_2483.5~2496.5



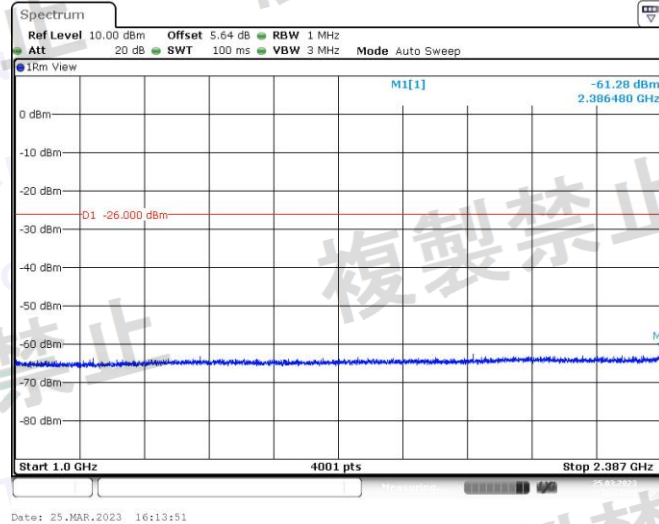
## NTNV\_11N20SISO\_Ant1\_2412\_2496.5~13000



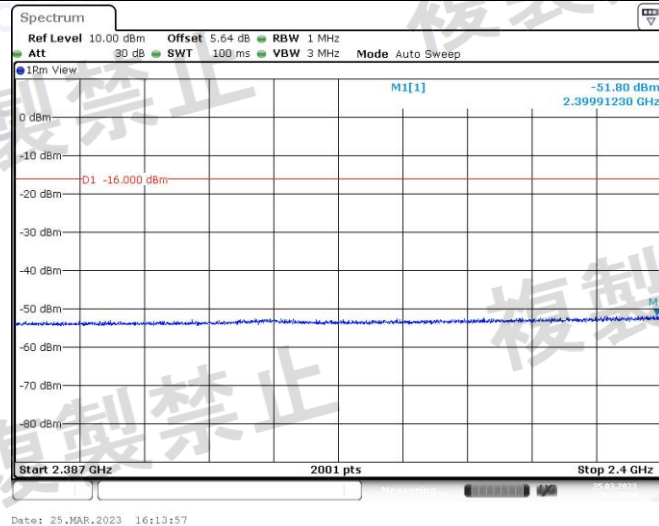
## NTNV\_11N20SISO\_Ant1\_2442\_30~1000



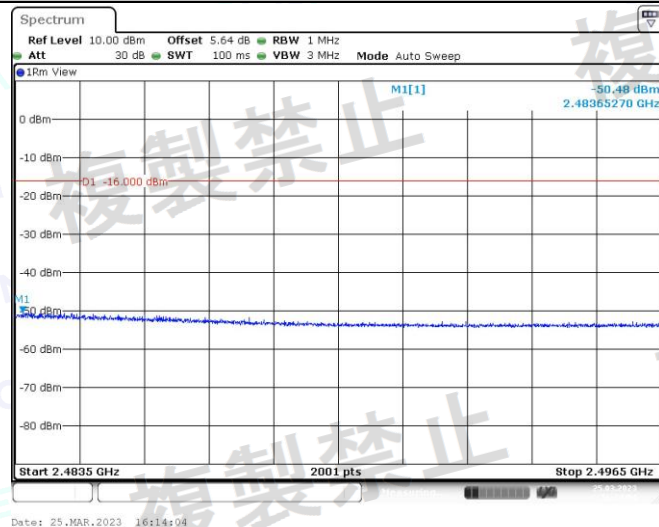
## NTNV\_11N20SISO\_Ant1\_2442\_1000~2387

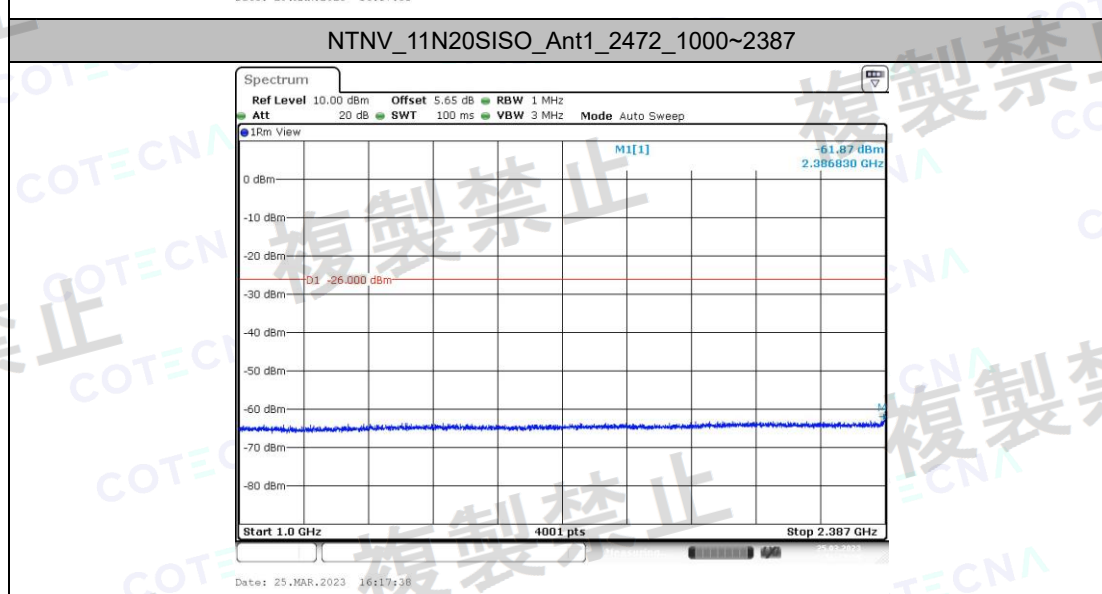


## NTNV\_11N20SISO\_Ant1\_2442\_2387~2400

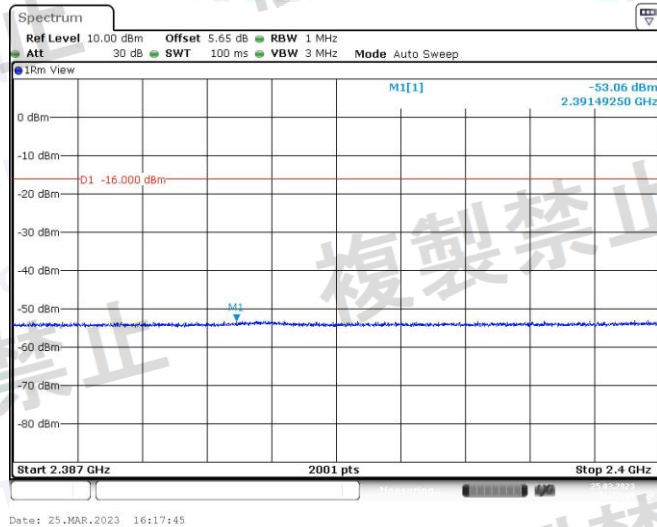


## NTNV\_11N20SISO\_Ant1\_2442\_2483.5~2496.5





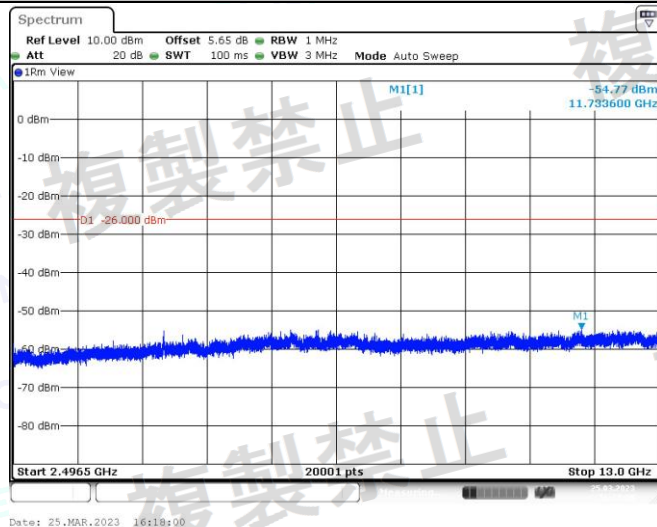
## NTNV\_11N20SISO\_Ant1\_2472\_2387~2400



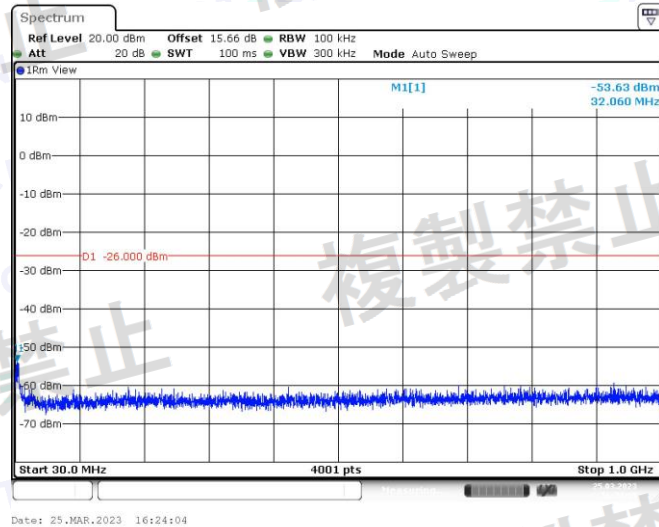
## NTNV\_11N20SISO\_Ant1\_2472\_2483.5~2496.5



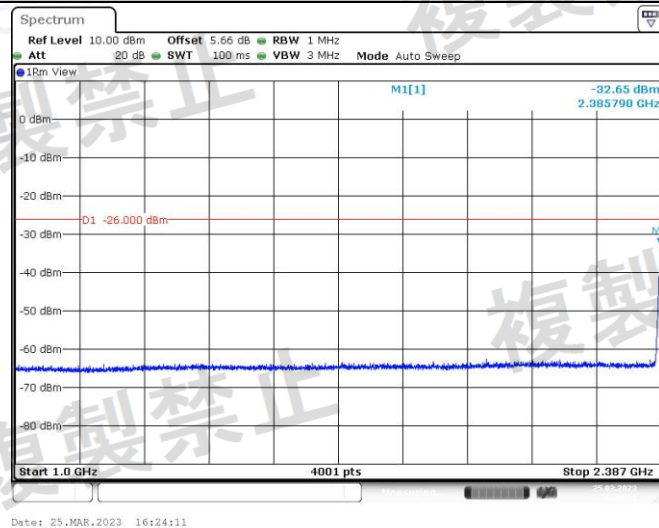
## NTNV\_11N20SISO\_Ant1\_2472\_2496.5~13000



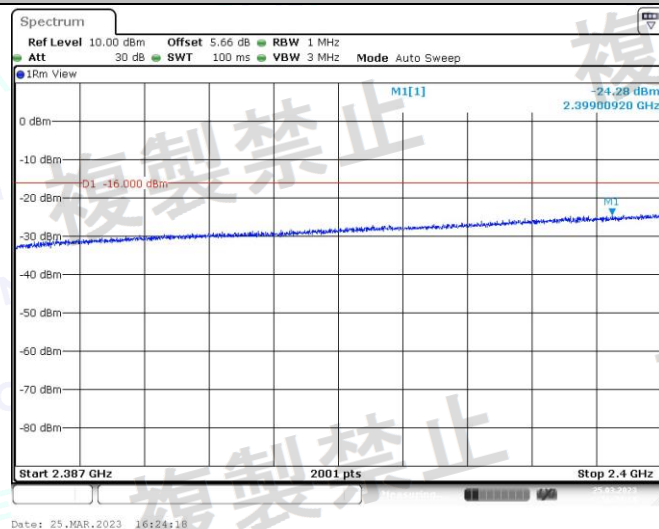
## NTNV\_11N40SISO\_Ant1\_2422\_30~1000



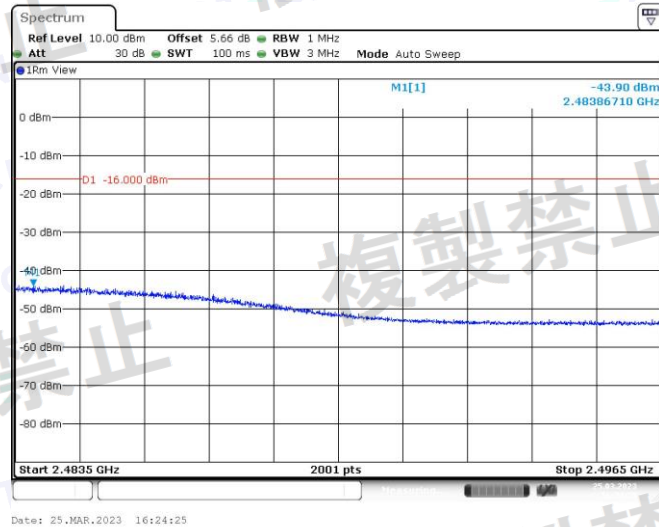
## NTNV\_11N40SISO\_Ant1\_2422\_1000~2387



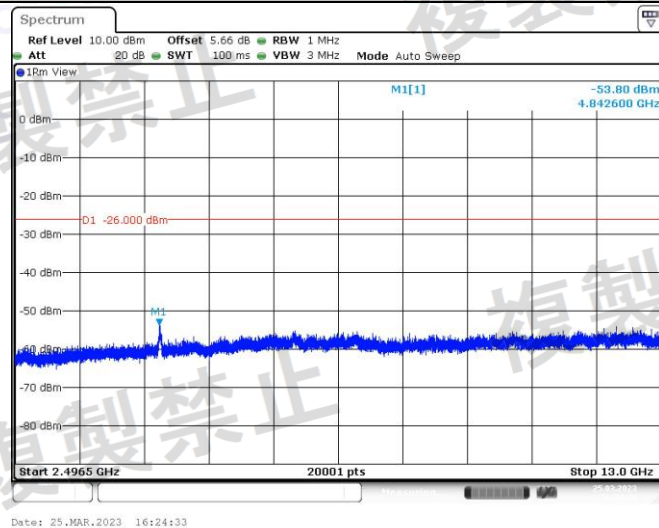
## NTNV\_11N40SISO\_Ant1\_2422\_2387~2400



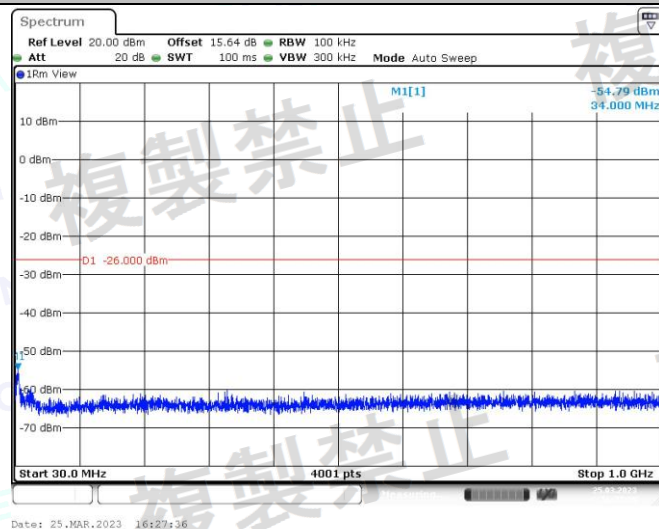
## NTNV\_11N40SISO\_Ant1\_2422\_2483.5~2496.5



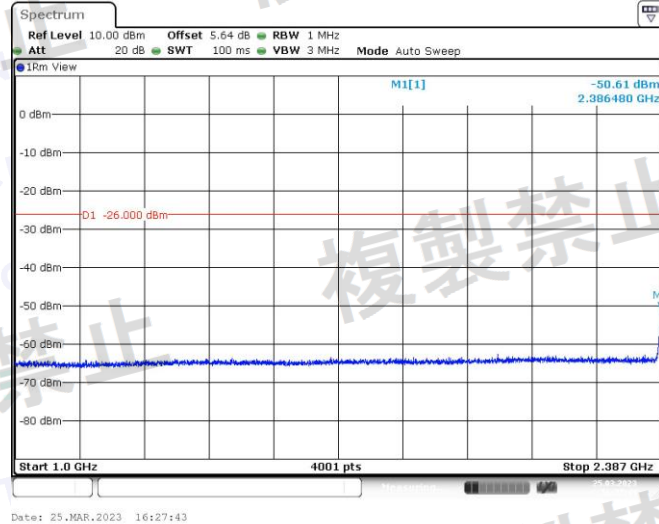
## NTNV\_11N40SISO\_Ant1\_2422\_2496.5~13000



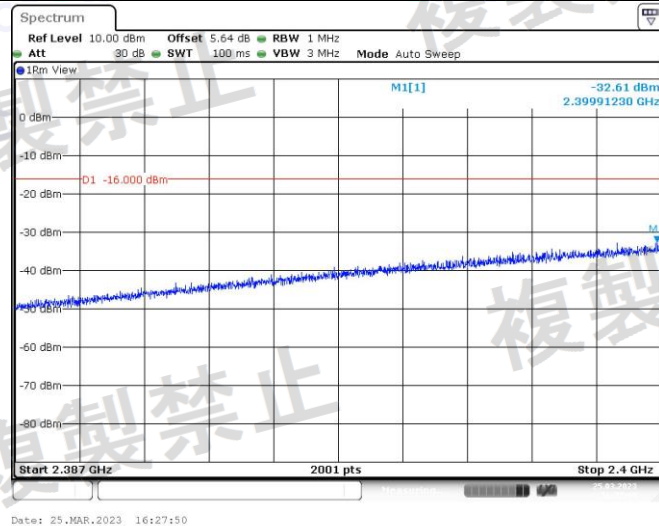
## NTNV\_11N40SISO\_Ant1\_2442\_30~1000



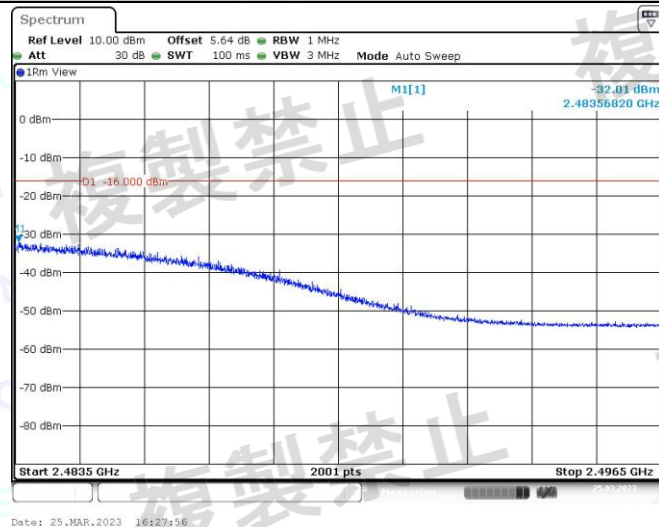
## NTNV\_11N40SISO\_Ant1\_2442\_1000~2387



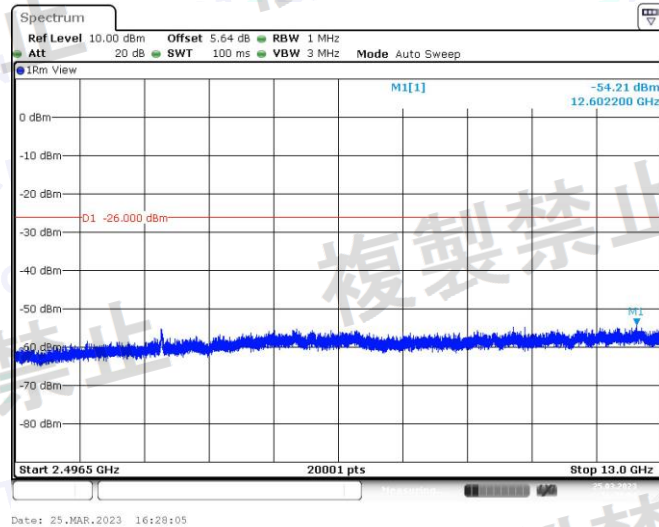
## NTNV\_11N40SISO\_Ant1\_2442\_2387~2400



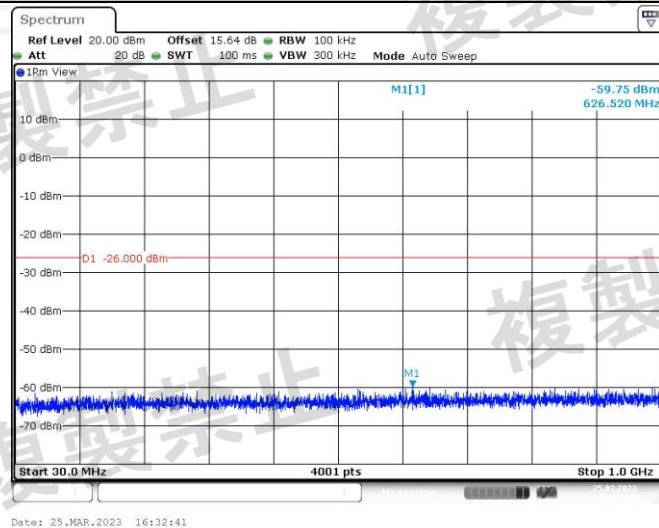
## NTNV\_11N40SISO\_Ant1\_2442\_2483.5~2496.5



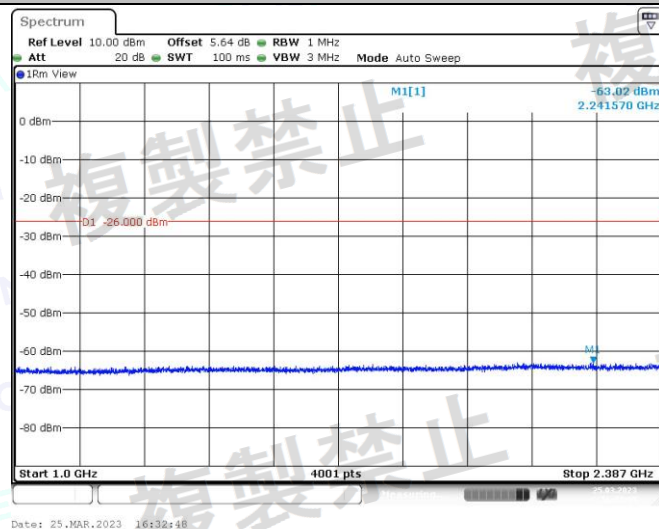
## NTNV\_11N40SISO\_Ant1\_2442\_2496.5~13000



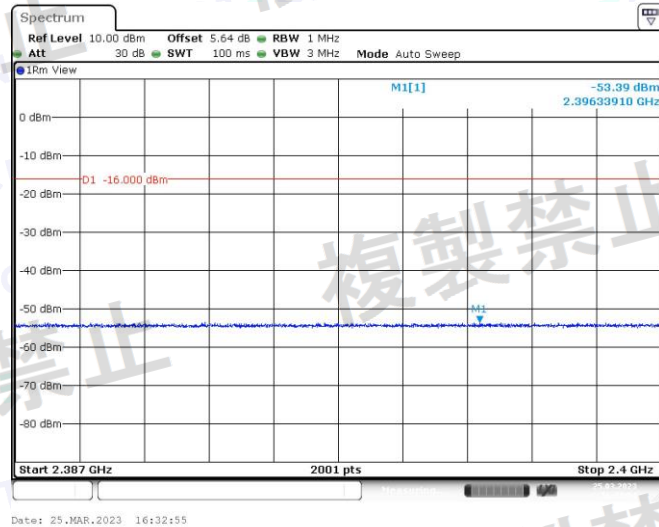
## NTNV\_11N40SISO\_Ant1\_2462\_30~1000



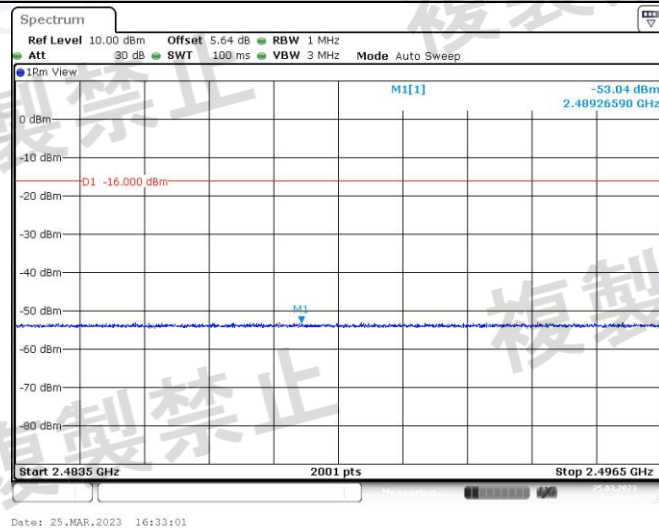
## NTNV\_11N40SISO\_Ant1\_2462\_1000~2387



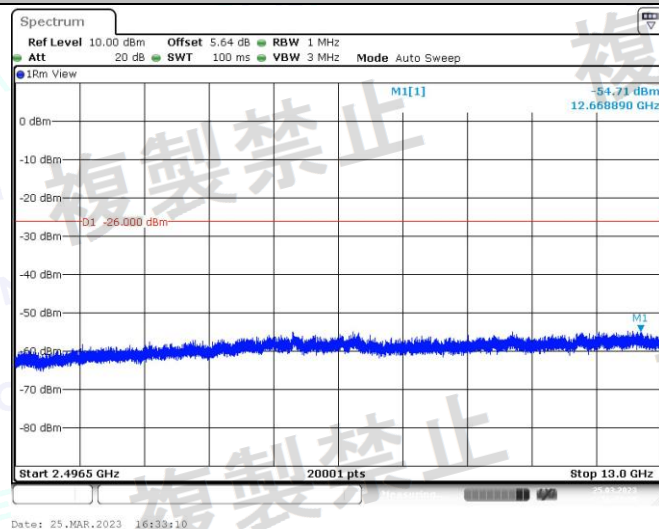
## NTNV\_11N40SISO\_Ant1\_2462\_2387~2400



## NTNV\_11N40SISO\_Ant1\_2462\_2483.5~2496.5



## NTNV\_11N40SISO\_Ant1\_2462\_2496.5~13000



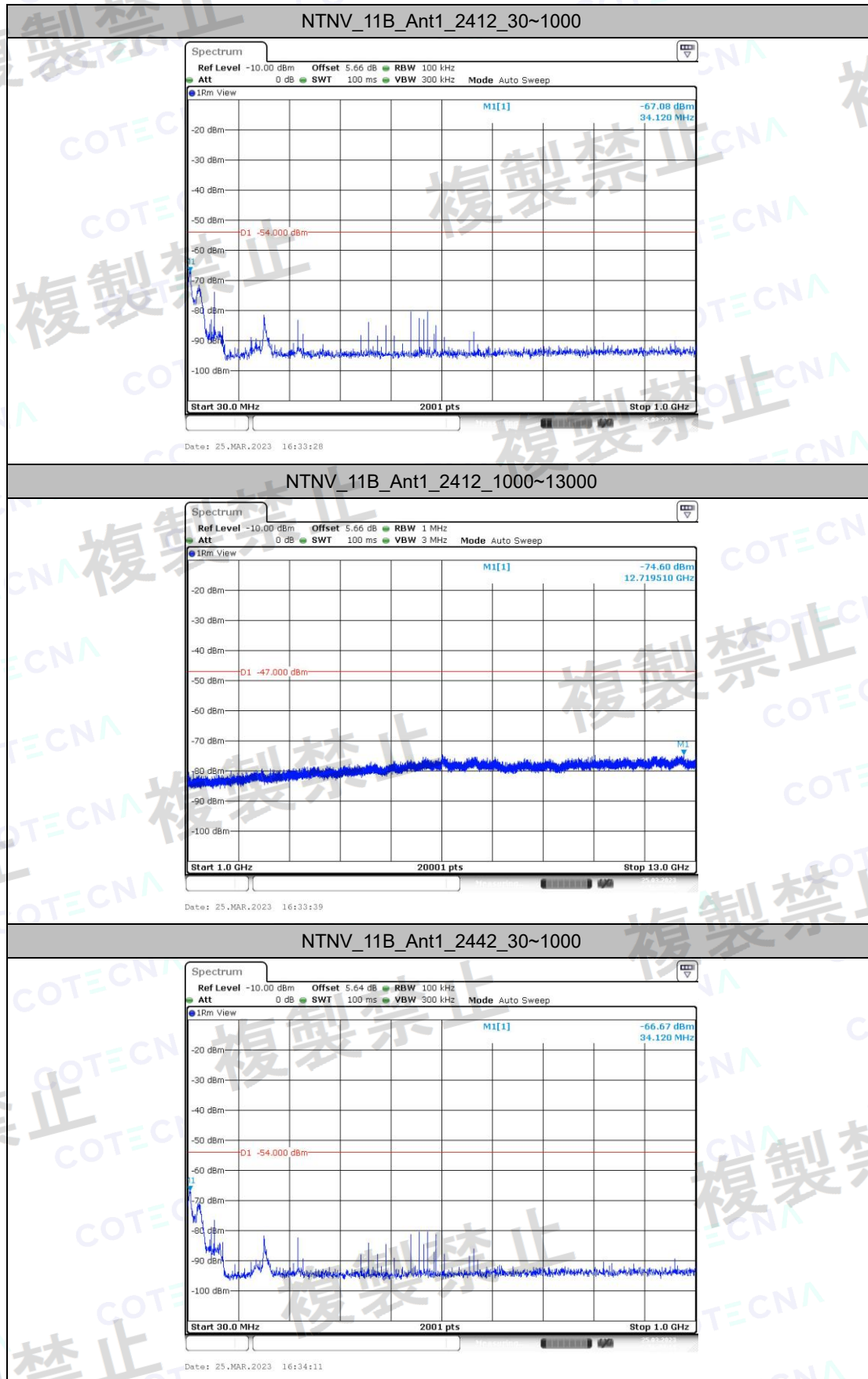
## Appendix F: Spurious Emission of RX

## Test Result

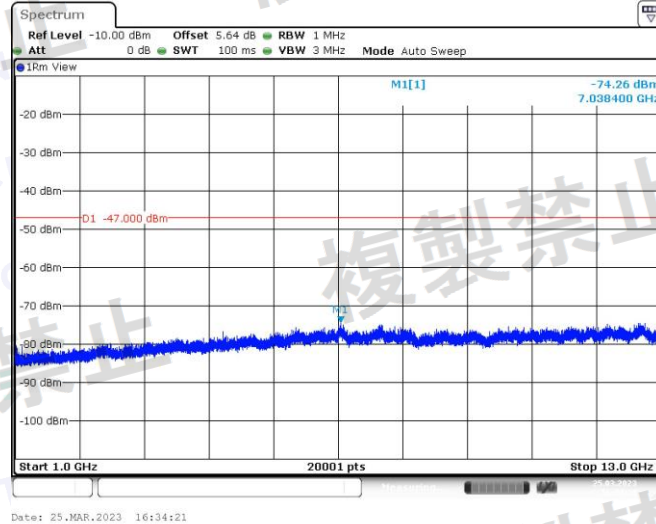
| TestCondition | TestMode  | Antenna | Frequency<br>[MHz] | Freq.Range<br>[MHz] | Result<br>[dBm] | Limit<br>[dBm] | Result<br>[nW] | Limit<br>[nW] | Verdict |
|---------------|-----------|---------|--------------------|---------------------|-----------------|----------------|----------------|---------------|---------|
| NTNV          | 11B       | Ant1    | 2412               | 30~1000             | -67.08          | ≤-54           | 0.19588        | ≤4            | PASS    |
|               |           |         |                    | 1000~13000          | -74.60          | ≤-47           | 0.03467        | ≤20           | PASS    |
|               |           |         | 2442               | 30~1000             | -66.67          | ≤-54           | 0.21528        | ≤4            | PASS    |
|               |           |         |                    | 1000~13000          | -74.26          | ≤-47           | 0.03750        | ≤20           | PASS    |
|               |           |         | 2472               | 30~1000             | -66.23          | ≤-54           | 0.23823        | ≤4            | PASS    |
|               |           |         |                    | 1000~13000          | -74.55          | ≤-47           | 0.03508        | ≤20           | PASS    |
|               | 11G       | Ant1    | 2412               | 30~1000             | -66.83          | ≤-54           | 0.20749        | ≤4            | PASS    |
|               |           |         |                    | 1000~13000          | -74.12          | ≤-47           | 0.03873        | ≤20           | PASS    |
|               |           |         | 2442               | 30~1000             | -66.90          | ≤-54           | 0.20417        | ≤4            | PASS    |
|               |           |         |                    | 1000~13000          | -74.08          | ≤-47           | 0.03908        | ≤20           | PASS    |
|               |           |         | 2472               | 30~1000             | -64.18          | ≤-54           | 0.38194        | ≤4            | PASS    |
|               |           |         |                    | 1000~13000          | -74.51          | ≤-47           | 0.03540        | ≤20           | PASS    |
|               | 11N20SISO | Ant1    | 2412               | 30~1000             | -65.31          | ≤-54           | 0.29444        | ≤4            | PASS    |
|               |           |         |                    | 1000~13000          | -74.19          | ≤-47           | 0.03811        | ≤20           | PASS    |
|               |           |         | 2442               | 30~1000             | -64.83          | ≤-54           | 0.32885        | ≤4            | PASS    |
|               |           |         |                    | 1000~13000          | -74.35          | ≤-47           | 0.03673        | ≤20           | PASS    |
|               |           |         | 2472               | 30~1000             | -67.91          | ≤-54           | 0.16181        | ≤4            | PASS    |
|               |           |         |                    | 1000~13000          | -74.59          | ≤-47           | 0.03475        | ≤20           | PASS    |
|               | 11N40SISO | Ant1    | 2422               | 30~1000             | -65.35          | ≤-54           | 0.29174        | ≤4            | PASS    |
|               |           |         |                    | 1000~13000          | -73.89          | ≤-47           | 0.04083        | ≤20           | PASS    |
|               |           |         | 2442               | 30~1000             | -67.96          | ≤-54           | 0.15996        | ≤4            | PASS    |
|               |           |         |                    | 1000~13000          | -74.24          | ≤-47           | 0.03767        | ≤20           | PASS    |
|               |           |         | 2462               | 30~1000             | -66.80          | ≤-54           | 0.20893        | ≤4            | PASS    |
|               |           |         |                    | 1000~13000          | -74.35          | ≤-47           | 0.03673        | ≤20           | PASS    |



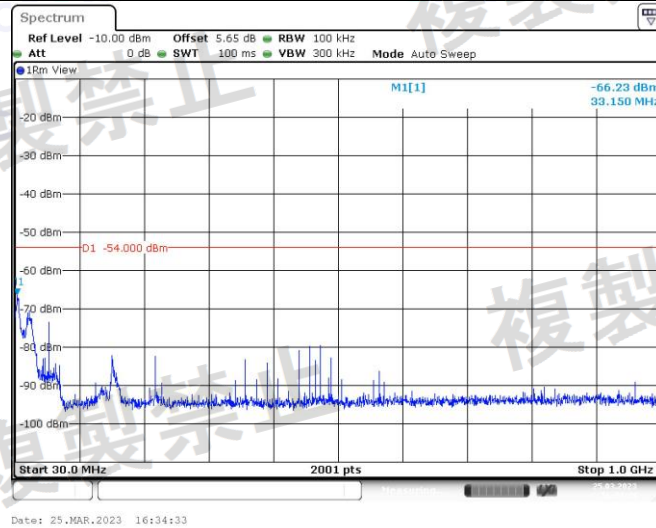
## Test Graphs



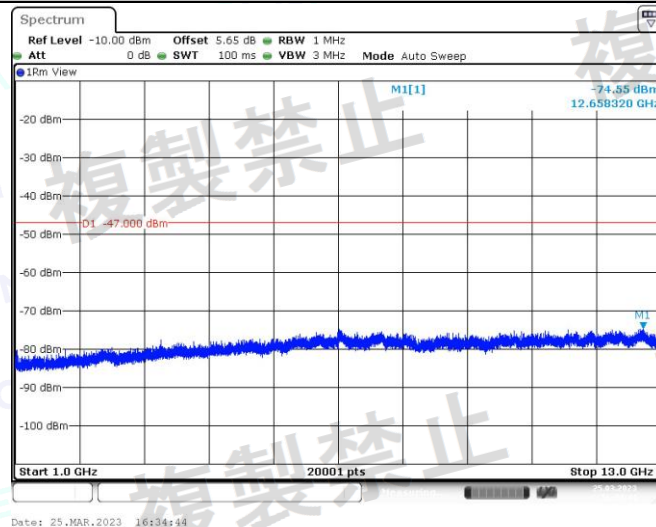
## NTNV\_11B\_Ant1\_2442\_1000~13000



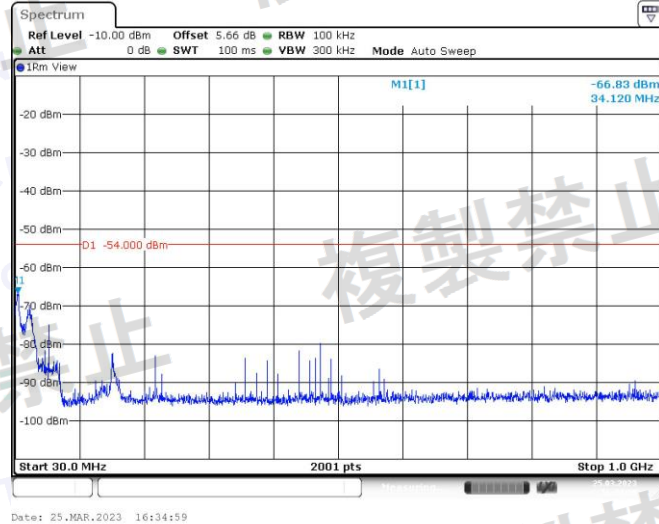
## NTNV\_11B\_Ant1\_2472\_30~1000



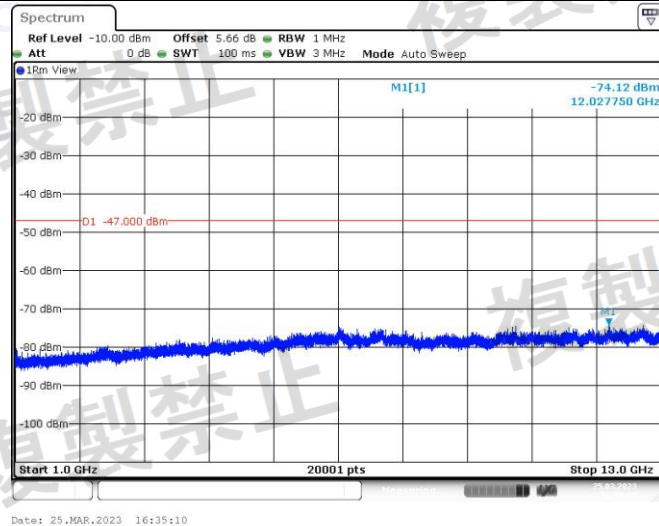
## NTNV\_11B\_Ant1\_2472\_1000~13000



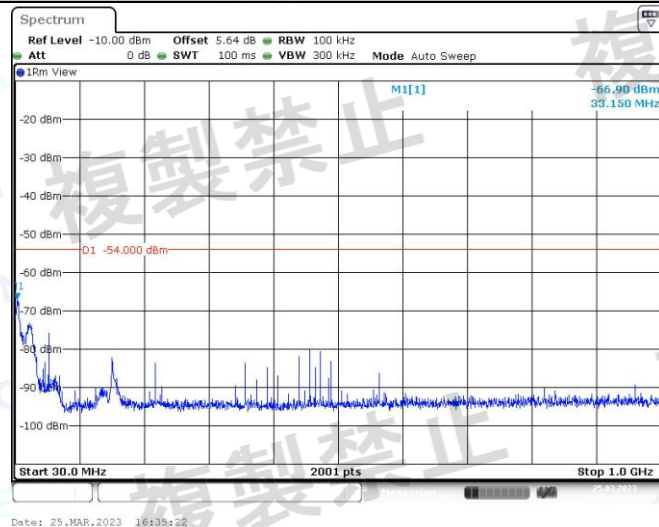
## NTNV\_11G\_Ant1\_2412\_30~1000



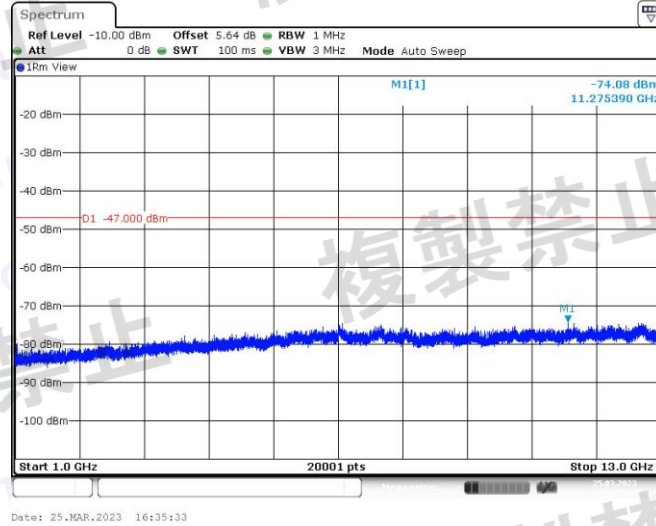
## NTNV\_11G\_Ant1\_2412\_1000~13000



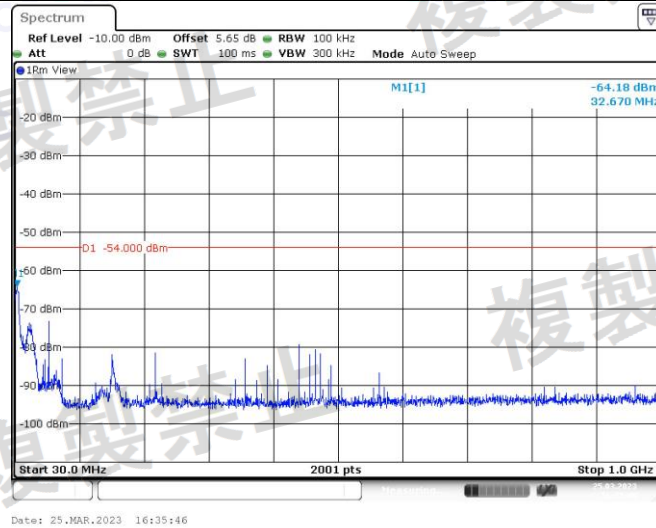
## NTNV\_11G\_Ant1\_2442\_30~1000



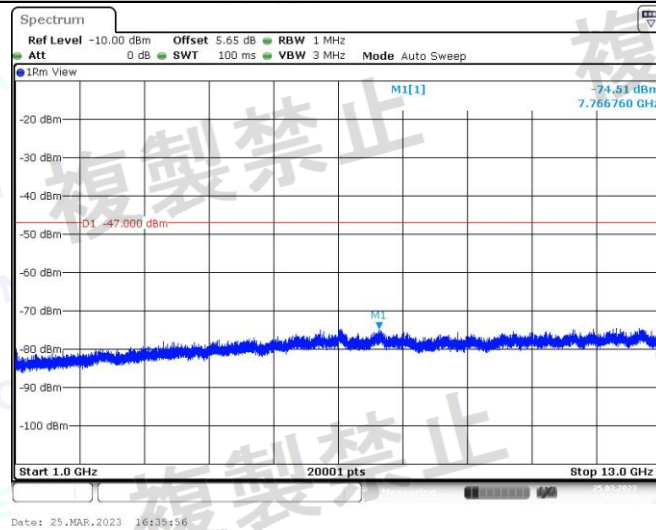
## NTNV\_11G\_Ant1\_2442\_1000~13000



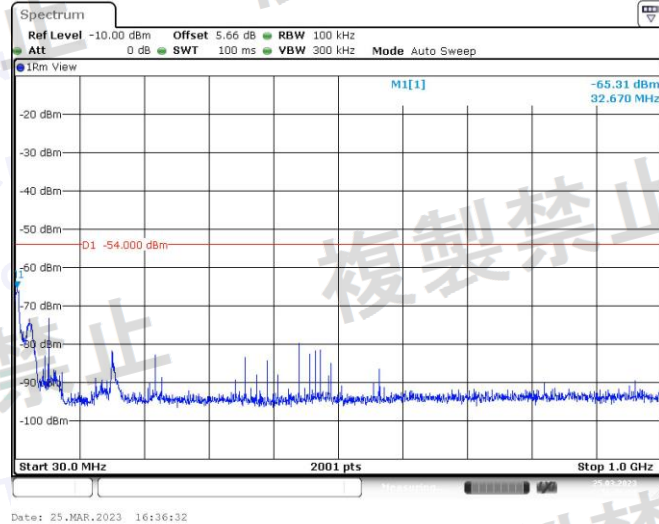
## NTNV\_11G\_Ant1\_2472\_30~1000



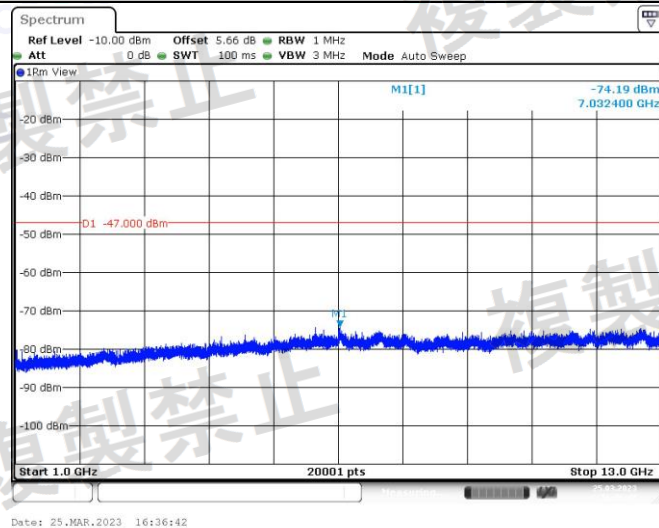
## NTNV\_11G\_Ant1\_2472\_1000~13000



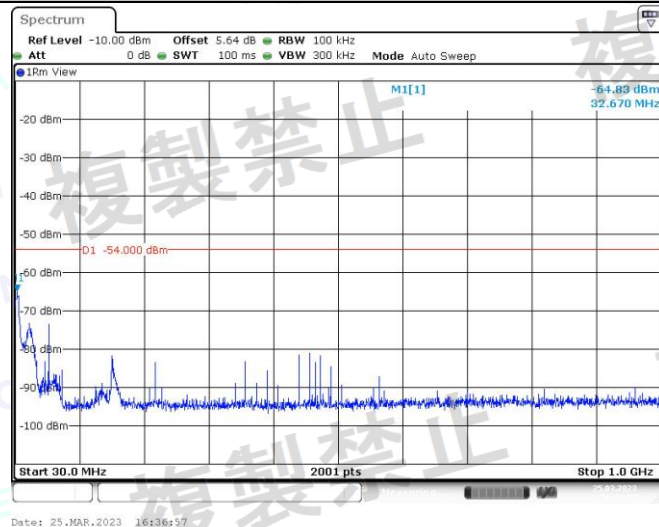
## NTNV\_11N20SISO\_Ant1\_2412\_30~1000



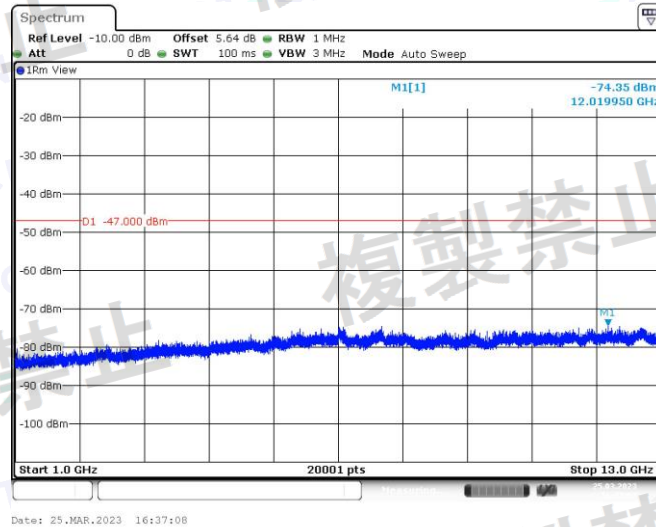
## NTNV\_11N20SISO\_Ant1\_2412\_1000~13000



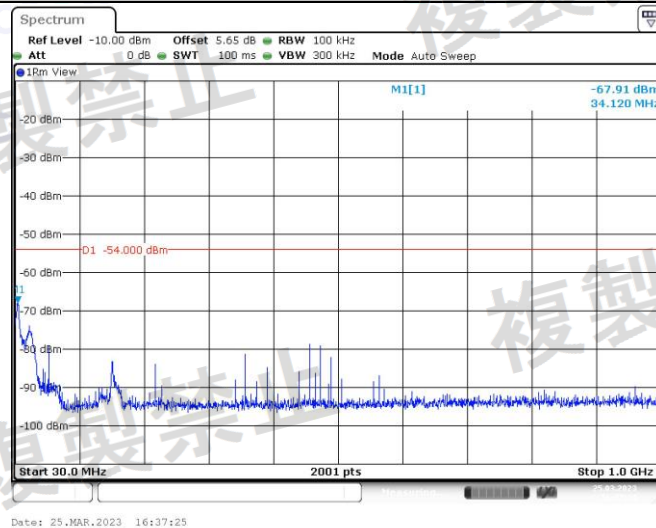
## NTNV\_11N20SISO\_Ant1\_2442\_30~1000



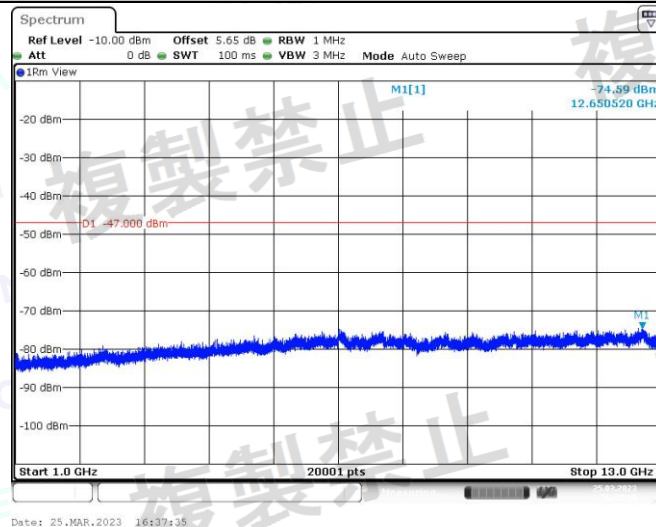
## NTNV\_11N20SISO\_Ant1\_2442\_1000~13000



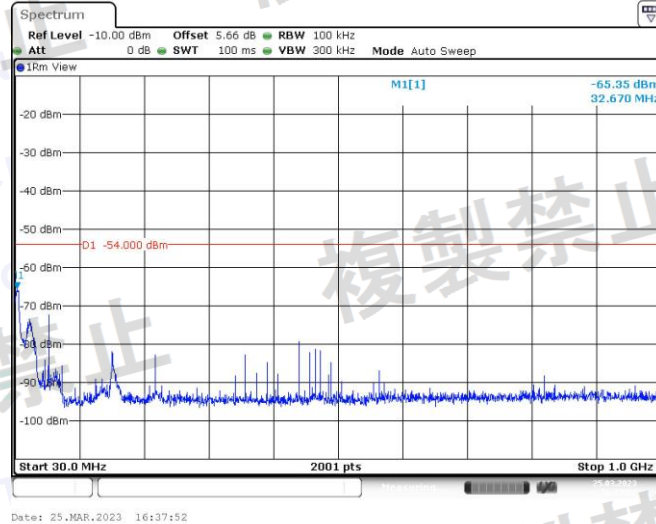
## NTNV\_11N20SISO\_Ant1\_2472\_30~1000



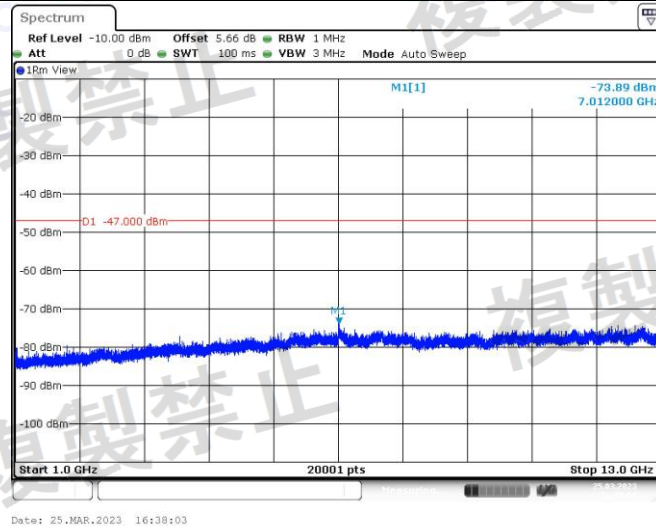
## NTNV\_11N20SISO\_Ant1\_2472\_1000~13000



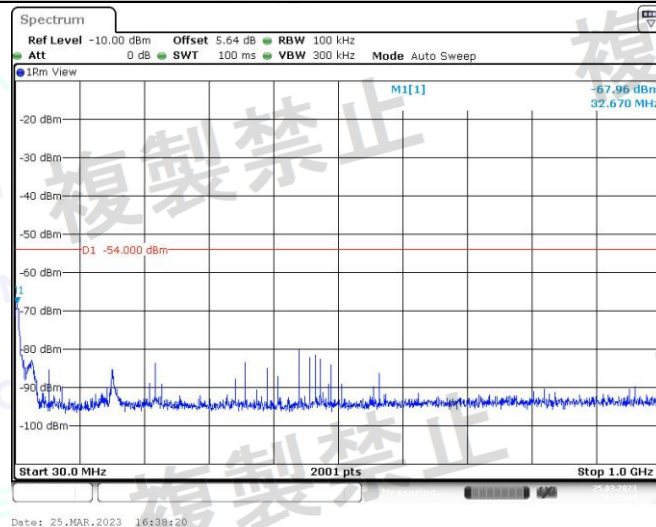
## NTNV\_11N40SISO\_Ant1\_2422\_30~1000



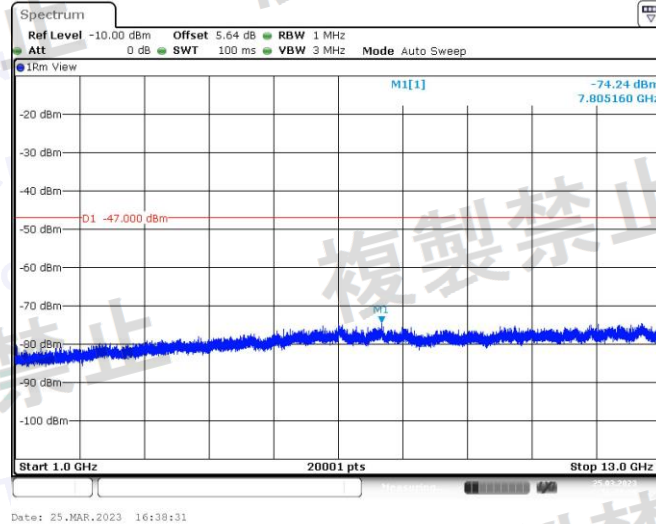
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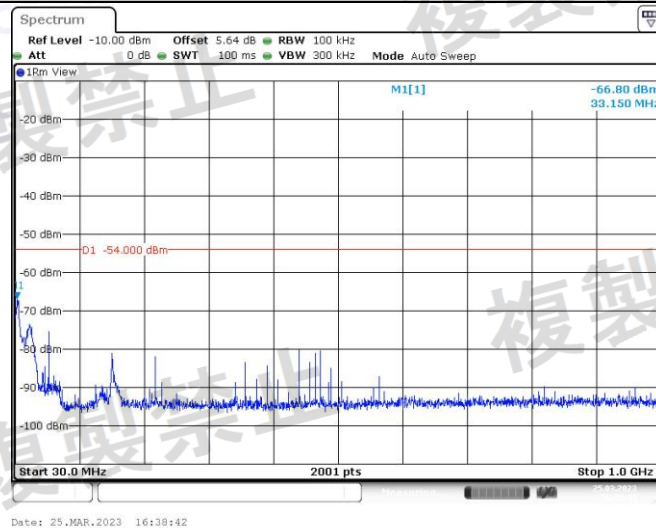
## NTNV\_11N40SISO\_Ant1\_2442\_30~1000



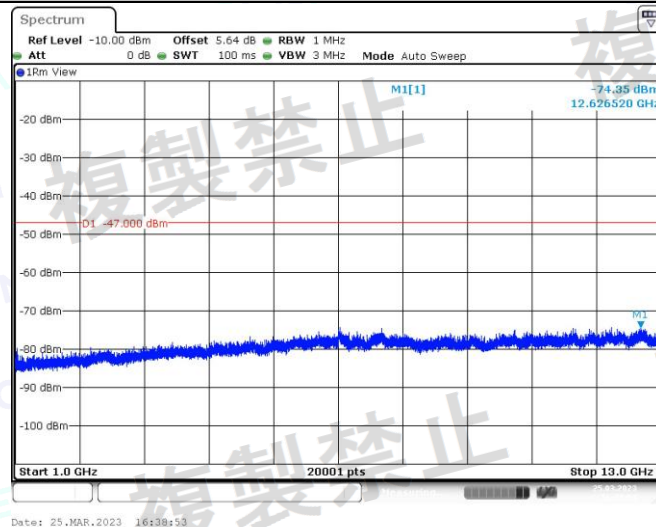
## NTNV\_11N40SISO\_Ant1\_2442\_1000~13000



## NTNV\_11N40SISO\_Ant1\_2462\_30~1000



## NTNV\_11N40SISO\_Ant1\_2462\_1000~13000



-----END OF THE REPORT-----

