# TEST REPORT

| | |
|---|---|
| Applicant Name： | FJ Dynamics Technology (Fujian) Co., Ltd. |
| Product Name： | Robotic Cylinder Mower |
| Model： | RCM01 |
| Test Report Number： | WD26011059RA2 |

**Worldtest (GuangDong) Co., Ltd.**

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複製禁止

**Applicant Information**

| | |
|---|---|
| Company Name: | FJ Dynamics Technology (Fujian) Co., Ltd. |
| Address: | Room 305, Unit 5, Huajian Building, No. 12, 16, and 18, East Keji Road, Shangjie Town, Minhou County, Fuzhou City, Fujian Province, China |

**Manufacturer Information**

| | |
|---|---|
| Company Name: | FJ Dynamics Technology (Fujian) Co., Ltd. |
| Address: | Room 305, Unit 5, Huajian Building, No. 12, 16, and 18, East Keji Road, Shangjie Town, Minhou County, Fuzhou City, Fujian Province, China |

**EUT Information**

| | |
|---|---|
| EUT Name: | Robotic Cylinder Mower |
| Model: | RCM01 |
| Brand: | FJDynamics |
| Sample Received Date: | Jan.27, 2026 |
| Sample Status: | Normal |
| Sample ID: | WD-YP260127001 |
| Date of Tested: | Mar.21, 2026 to May.30, 2026 |
| **Standard(s)** | MIC Notice No.88 Appendix No.43<br>MIC Article 2-1 Item (19) |
| Issued By: | Worldtest (GuangDong) Co., Ltd. |
| Address: | Room 102 and 201, Building 6, No.6, Gongye North Road, Songshan Lake(SSL), Dongguan, Guangdong, China |

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Lam Liu / Jul.16, 2026

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## RELEASE CONTROL RECORD

| Issue No. | Description | Issued Date |
|---|---|---|
| WD26011059RA2 | Original release. | Jul.16, 2026 |

## 1. SUMMARY OF TEST RESULTS

☒ No deviations from the test standards
☐ Deviations from the test standards as below description:

Technical requirements for Frequency Hopping equipment

| Performed Test Item | Normative References | Test Performed |
|---|---|---|
| Antenna power, antenna power tolerance and E.I.R.P. | MIC Notice No. 88 Appendix No. 43 Clause 6 | Yes |
| Occupied Bandwidth | MIC Notice No. 88 Appendix No. 43 Clause 4 | Yes |
| Spreading Factor | MIC Notice No. 88 Appendix No. 43 Clause 4 | Yes |
| Frequency Tolerance | MIC Notice No. 88 Appendix No. 43 Clause 3 | Yes |
| Transmitter Spurious Emissions | MIC Notice No. 88 Appendix No. 43 Clause 5 | Yes |
| Receiver Spurious Emissions | MIC Notice No. 88 Appendix No. 43 Clause 7 | Yes |
| Dwell Time | MIC Notice No. 88 Appendix No. 43 Clause 13 | Yes |
| Interference Preverntion fucntion | MIC Notice No. 88 Appendix No. 43 Clause 12 | Good |

## 1.1. TEST METHODOLOGY

All tests were performed in accordance with the procedures documented in MIC Notice No.88 Appendix No.43

## 1.2. TEST FACILITIES

| No. | Product | Manufacturer | Model No. | Serial No. | Power Cord |
|---|---|---|---|---|---|
| 1 | Notebook | lenovo | S14 G2 ITL | PF4119QS | Power by adapter |
| 2 | Serial cable | N/A | N/A | N/A | Unshielded,0.8m |
| 3 | SMA cable | N/A | N/A | N/A | Shielded,0.8m |
| 4 | Power cable | N/A | N/A | N/A | Unshielded,0.8m |

## 1.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Parameter | Uncertainty |
|---|---|
| Radio Frequency | ±1 x 10-7 |
| RF Power Conducted | ±1.15dB |
| RF Power Radiated | ±3.5dB |
| Occupied Channel Bandwidth | ±1.17% |
| Spurious Emissions, Conducted | ±1.68dB |
| Spurious Emissions, Radiated | ±3.5dB |
| Humidity | ±1% |
| Temperature | ±0.5℃ |
| Time | ±8% |

## 1.4. TEST EQUIPMENT LIST AND DETAILS

1.4. TEST EQUIPMENT LIST AND DETAILS

| Measuring Equipment Calibration Information | | |
|---|---|---|
| Used | Calibration Company Abbreviation | Full Name of calibration company |
| ☒ | GRGTEST | GRG METROLOGY & TEST GROUP CO.,LTD. |
| Calibration Information | | |
| ☐ | a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) ora designated calibration agency under Article 102-18-1 of the Radio Act | |
| ☐ | (b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act | |
| ☒ | (c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act ( | |
| ☐ | d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above | |

| RF Conducted Test System | | | | | |
|---|---|---|---|---|---|
| Equipment | Manufacturer | Model No. | Serial No. | Cal. date | Interval |
| RF Control Unit | Tonscend | JS0806-2 | 23F80620689 | 2025-08-30 | 1 Year |
| DC Power Supply | Agilent | E3642A | MY40000323 | 2025-08-30 | 1 Year |
| MClean Robot Vector Signal Generator | Agilent | N5182A | MY50141372 | 2025-08-30 | 1 Year |
| MClean Robot Analog Signal Generator | Agilent | N5181A | MY47421166 | 2025-08-30 | 1 Year |
| Spectrum analyzer | Agilent | N9010A | MY50483285 | 2026-02-03 | 1 Year |
| Software | | | | | |
| Description | Manufacturer | | Name | | Version |
| Tonsend SRD Test System | Tonsend | | JS1120-3 RF Test System | | 2.6.77.0518 |

## 2. GENERAL INFORMATION

### 2.1. GENERAL DESCRIPTION OF EUT

| | |
|---|---|
| EUT Name | Robotic Cylinder Mower |
| Model Name | RCM01 |
| Radio Technology | BT |
| Operation frequency | 2400MHz—2483.5MHz |
| Modulation | GFSK, π /4-DQPSK, 8DPSK |
| Antenna description | AP6275S: WiFi uses Ant 1 and Ant 2; BT and BLE uses Ant 1; |

### 2.2. ANTENNA LIST

| | | | | |
|---|---|---|---|---|
| Model No. | N/A | | | |
| Antenna manufacturer | N/A | | | |
| Antenna Delivery | ☐ | 1*TX+1*RX | ☐ 2*TX+2*RX | ☐ 3*TX+3*RX |
| Antenna technology | ☒ | SISO | | |
| | ☐ | MIMO | ☒ | Basic |
| | | | ☐ | CDD |
| | | | ☐ | Beam-forming |
| Antenna Type | ☐ | External | ☐ | Patch |
| | ☒ | Internal | ☒ | FPC |
| | | | ☐ | PCB |
| | | | ☐ | Ceramic Chip Antenna |
| | | | ☐ | Metal plate type F antenna |
| | | | ☐ | stamping antenna |
| Antenna Gain Reference | 2.48dBi | | | |

### 2.3. CHANNEL LIST

| Working Frequency of Each Channel | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 00 | 2402 MHz | 01 | 2403 MHz | 02 | 2404 MHz | 03 | 2405 MHz |
| 04 | 2406 MHz | 05 | 2407 MHz | 06 | 2408 MHz | 07 | 2409 MHz |
| 08 | 2410 MHz | 09 | 2411 MHz | 10 | 2412 MHz | 11 | 2413 MHz |
| 12 | 2414 MHz | 13 | 2415 MHz | 14 | 2416 MHz | 15 | 2417 MHz |
| 16 | 2418 MHz | 17 | 2419 MHz | 18 | 2420 MHz | 19 | 2421 MHz |
| 20 | 2422 MHz | 21 | 2423 MHz | 22 | 2424 MHz | 23 | 2425 MHz |
| 24 | 2426 MHz | 25 | 2427 MHz | 26 | 2428 MHz | 27 | 2429 MHz |
| 28 | 2430 MHz | 29 | 2431 MHz | 30 | 2432 MHz | 31 | 2433 MHz |
| 32 | 2434 MHz | 33 | 2435 MHz | 34 | 2436 MHz | 35 | 2437 MHz |
| 36 | 2438 MHz | 37 | 2439 MHz | 38 | 2440 MHz | 39 | 2441 MHz |
| 40 | 2442 MHz | 41 | 2443 MHz | 42 | 2444 MHz | 43 | 2445 MHz |
| 44 | 2446 MHz | 45 | 2447 MHz | 46 | 2448 MHz | 47 | 2449 MHz |
| 48 | 2450 MHz | 49 | 2451 MHz | 50 | 2452 MHz | 51 | 2453 MHz |
| 52 | 2454 MHz | 53 | 2455 MHz | 54 | 2456 MHz | 55 | 2457 MHz |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 56 | 2458 MHz | 57 | 2459 MHz | 58 | 2460 MHz | 59 | 2461 MHz |
| 60 | 2462 MHz | 61 | 2463 MHz | 62 | 2464 MHz | 63 | 2465 MHz |
| 64 | 2466 MHz | 65 | 2467 MHz | 66 | 2468 MHz | 67 | 2469 MHz |
| 68 | 2470 MHz | 69 | 2471 MHz | 70 | 2472 MHz | 71 | 2473 MHz |
| 72 | 2474 MHz | 73 | 2475 MHz | 74 | 2476 MHz | 75 | 2477 MHz |
| 76 | 2478 MHz | 77 | 2479 MHz | 78 | 2480 MHz | N/A | N/A |

## 2.4. TEST CHANNEL CONFIGURATION

| Test Channel Number | Frequency |
|---|---|
| CH 00(Low Channel), CH 39(MID Channel), CH 78(High Channel) | 2402 MHz, 2441 MHz, 2480 MHz |

## 2.5. DESCRIPTION OF AVAILABLE ANTENNAS

| Antenna | Frequency (MHz) | Antenna Type | Maximum Antenna Gain (dBi) | Tx Beamforming Gain (dBi) |
|---|---|---|---|---|
| Ant 1 | 2400 ~ 2483.5 | FPC Antenna | 2.48dBi | |

| Transmit and Receive Mode | Description |
|---|---|
| 1TX, 1RX | Separate individual antenna can be used as transmitting/receiving. |

Note: The value of the antenna gain was declared by customer.

## 2.6. THE WORSE CASE POWER SETTING PARAMETER

BT-EDR: DH1, DH5, 2DH1, 2DH5, 3DH1, 3DH5

## 2.7. TEST CONDITIONS

The WIFI module was tested while in a continuous transmitter/receiver mode.
The eut was tuned to a low,middle and high channel for all tests.For all test case pre/scans were completed in all modes to determine worst case levels.

Power Supply Voltage Fluctuation Test

| Voltage Fluctuation Test | Normal Voltage | High Voltage +10% of Normal Voltage | Low Voltage -10% of Normal Voltage |
|---|---|---|---|
| Input DC Power | 51.2 V | 56.32V | 46.08V |
| RF Module | 3.3V | 3.3V | 3.3V |
| Voltage Varuation | 0 | 0% | 0% |

Note：When the external voltage changes by ±10%, the voltage variation rate of the WIFI module is 0% or less than 1%. Therefore, the test is only conducted under normal conditions.

## 2.8. DESCRIPTION OF TEST SETUP

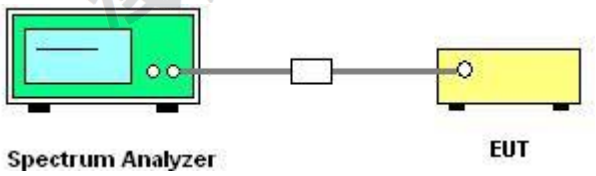
**SUPPORT EQUIPMENT**

Follow up the claims of the applicant

**TEST SETUP**

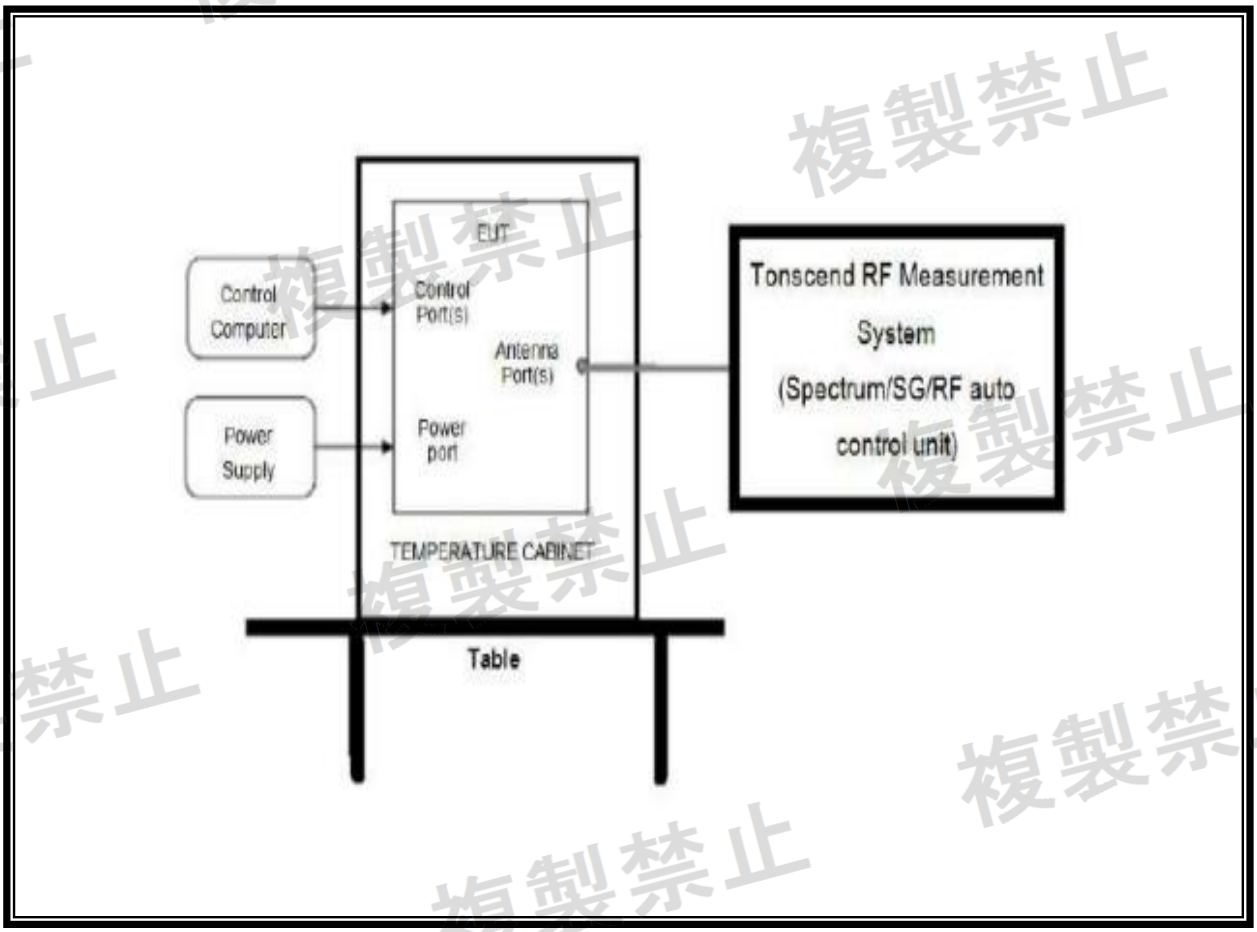
The EUT can work in engineering mode during the testing.

**SETUP DIAGRAM FOR TESTS**




## 2.9. TEST SYSTEM CONFIGURATION

Test System(for all test items)



## 2.10. TEST ENVIRONMEN

| Items | Required (IEC 68-1) | Actual |
|---|---|---|
| Temperature (°C) | 15-35 | 26 |
| Humidity (%RH) | 25-75 | 56 |
| Barometric pressure (mbar) | 860-1060 | 1001 |

# 3. TEST PROCEDURES AND RESULTS

## 3.1. FREQUENCY TOLERANCE

**LIMITS**

≦±50 ppm

**TEST PROCEDURE**

1. Frequency accuracy of instrument shall be less than 10% of limits tolerance (5ppm).
2. Three testing methods
   a.Measure frequency tolerance by the system simulator.
   b.CW Tone method
   Setting of SA is following as: RBW:10kHz / VBW:10kHz.
   Maker Max. level to get measuring frequency f.
   c.10dB down method
   Setting of SA is following as: RBW:10kHz / VBW: 10kHz / Trace: MaxHold
   Display line Level = Max. level – 10dB to place two markers, highest(fH) and lowest(fL) frequency
   Determine measuring frequency f = (fH+fL)/2
3. The frequency tolerance test case is directly measured using the frequency accuracy function of Wifi tester or spectrum analyzer. Then the frequency error formula is (f-fc)/fc×10-6 ppm and the limit is less than ±50ppm.

**RESULTS**

Please refer to appendix A.

## 3.2. ANTENNA POWER, ANTENNA POWER TOLERANCE AND E.I.R.P.

**LIMITS**

Output Power must be 3 mW/MHz or less.
Output Power Tolerance: +20%.
Output Power E.I.R.P is less than or equal to 6.91dBm/MHz.

**TEST PROCEDURE**

1. Use power meter measure The total hopping power at DH5,2DH5,3DH5 mode.
2. Use spectrum analyser measure the spread bandwidth
3. The antenna power= total hopping power(mW)/Spread Bandwidth(MHz).

**RESULTS**

Please refer to appendix B

## 3.3. OCCUPIED BANDWIDTH

**LIMIT**

≦26 MHz for DSSS&OFDM, ≦83.5 MHz for FHSS

**TEST PROCEDURE**

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.
1. A positive peak detector function must be used.
2. A measurement instrument with an integrated 99% power bandwidth function may be used to automate the test process.
3. The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
4. 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

Spectrum Analyzer Conditions:

RBW : 1MHz

VBW : 1MkHz

Span: 200MHz

Sweep time : Auto, Marker : Marker Off

Log scale : 10dB/Div,

Data points : 1001points or more

Detection : Sample, Sweep mode : Continuous

Measurement Procedure and Capture Image

A,B -> Storage -> Average -> Averaging count -> 100 -> enter
Measure -> more -> Occupied Bandwidth -> N% Ratio -> 99%

**RESULTS**

Please refer to appendix C.

## 3.4. SPREAD BANDWIDTH AND SPREADING FACTOR

**LIMIT**

N/A

**TEST PROCEDURE**

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

1.A positive peak detector function must be used.

2.A measurement instrument with an integrated 90% power bandwidth function may be used to automate the test process.

3.The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.

4.'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

**RESULTS**

Please refer to appendix D.

## 3.5. DWELL TIME

**LIMITS**

0.4 sec or less

**TEST PROCEDURE**

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.
1. A positive peak detector function must be used.
2. The center frequency is set to the test frequency and the span is switched to zero.
3. The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
4. 'Single sweep' mode may be used to capture a packet over a single scan.

**RESULTS**

Please refer to appendix G

## 3.6. TRANSMITTER SPURIOUS EMISSIONS

**LIMITS**

<= 2.5uW/MHz or less for 30 – 2387 MHz
<= 25uW/MHz or less for 2387 – 2400 MHz
<= 25uW/MHz or less for 2483.5 – 2496.5 MHz
<= 2.5uW/MHz or less for 2496.5 – 12500 MHz

**TEST PROCEDURE**

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.
1. A positive peak detector function must be used.
2. The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
3. 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

Spectrum Analyzer Conditions:

RBW : 1MHz

VBW : 1MHz

Sweep time : Auto

Trace mode:Max hold

Log scale : 10dB/Div,

Data points : 8001points or more

Detection : Peak, Sweep mode : Continuous

**RESULTS**

Please refer to appendix E

## 3.7. RECEIVER SPURIOUS EMISSIONS

**LIMITS**

<= 4 nW/MHz for 30 – 1000 MHz
<= 20 nW/MHz for 1000 – 12750 MHz

**TEST PROCEDURE**

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.
1. A positive peak detector function must be used.
2. The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
3. 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.
Spectrum Analyzer Conditions:

RBW : 100kHz(Below 1000MHz)/1MHz(Above 1000MHz)

RBW=VBW

Sweep time : Auto

Trace mode:Max hold

Log scale : 10dB/Div,

Data points : 8001points or more

Detection : Peak, Sweep mode : Continuous

**RESULTS**

Please refer to appendix F.

## 3.8. INTERFERENCE PREVERNTION FUCNTION

**LIMITS**

N/A

Requirement:
The EUT shall have the interference prevention capability to transmit or to receive the identification Automatically,so that sender and receiver shall exclude other equipment.

**TEST PROCEDURE**

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

**RESULTS**

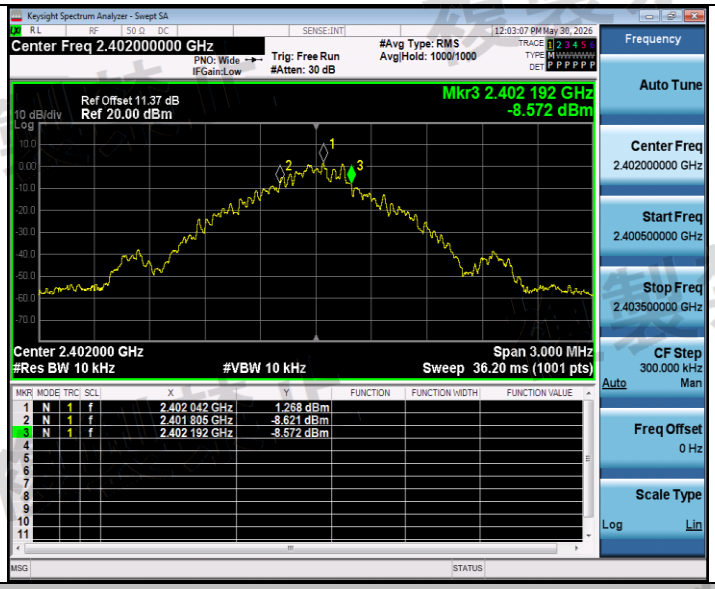
MAC: 43:D2:3A:34:FE:08

Good，EUT performed relevant functional tests as required, and the product signal was normal.

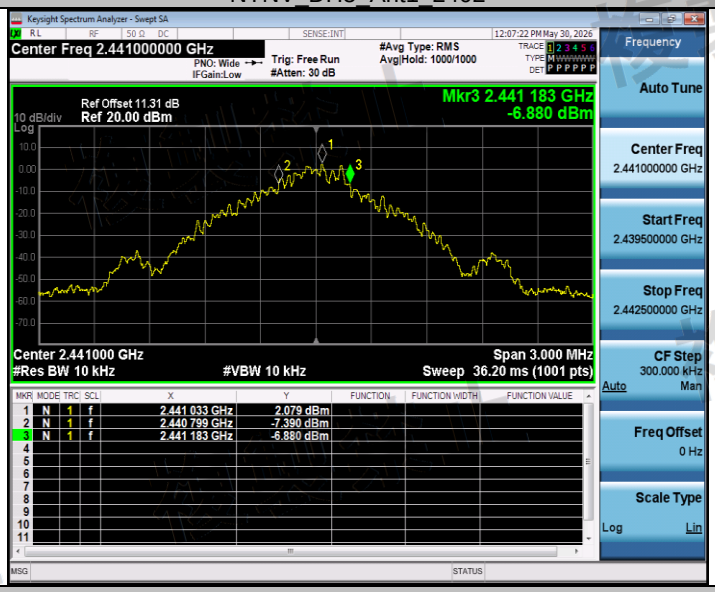
# Appendix A: Frequency Tolerance

## Test Result

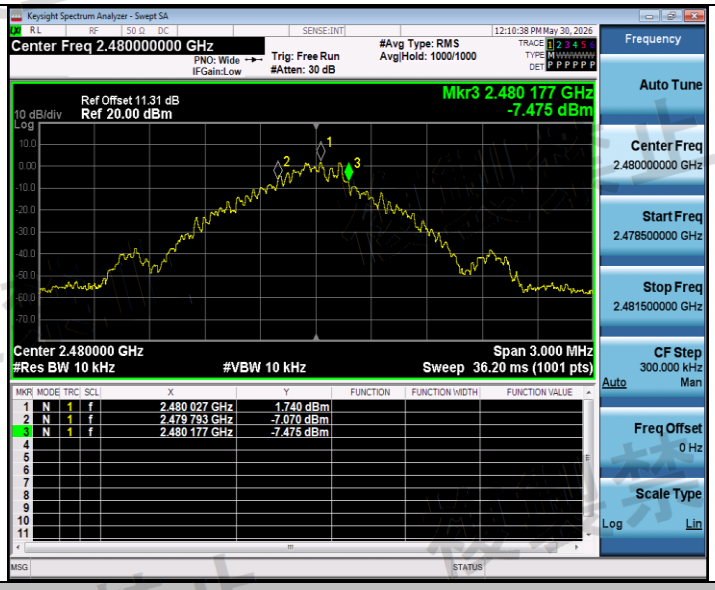
| Test Condition | Test Mode | Antenna | Freq(MHz) | Result[ppm] | Limit[ppm] | Verdict |
|---|---|---|---|---|---|---|
| NTNV | DH5 | Ant1 | 2402 | -0.62448 | ±50 | PASS |
| | | | 2441 | -3.68701 | ±50 | PASS |
| | | | 2480 | -6.04839 | ±50 | PASS |
| | 2DH5 | Ant1 | 2402 | -3.74688 | ±50 | PASS |
| | | | 2441 | -6.75953 | ±50 | PASS |
| | | | 2480 | -9.07258 | ±50 | PASS |
| | 3DH5 | Ant1 | 2402 | -4.99584 | ±50 | PASS |
| | | | 2441 | -10.44654 | ±50 | PASS |
| | | | 2480 | -13.91129 | ±50 | PASS |




NTNV_DH5_Ant1_2402



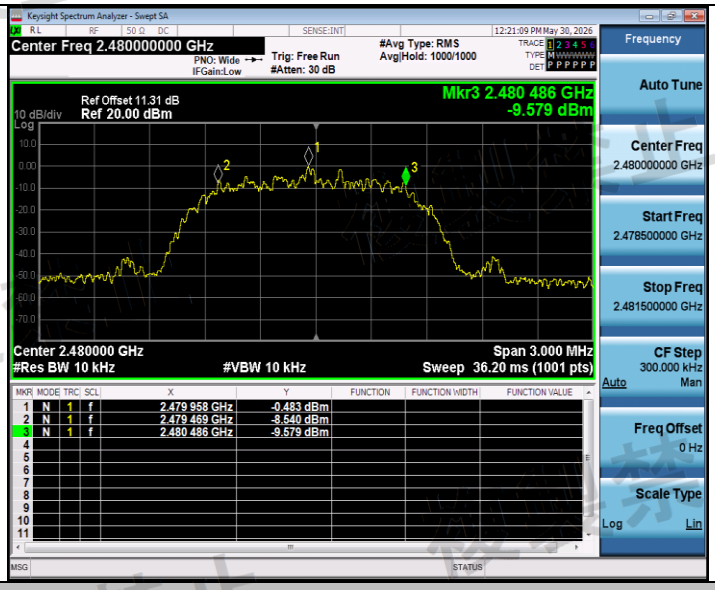

NTNV_DH5_Ant1_2441




NTNV_DH5_Ant1_2480

NTNV_2DH5_Ant1_2402

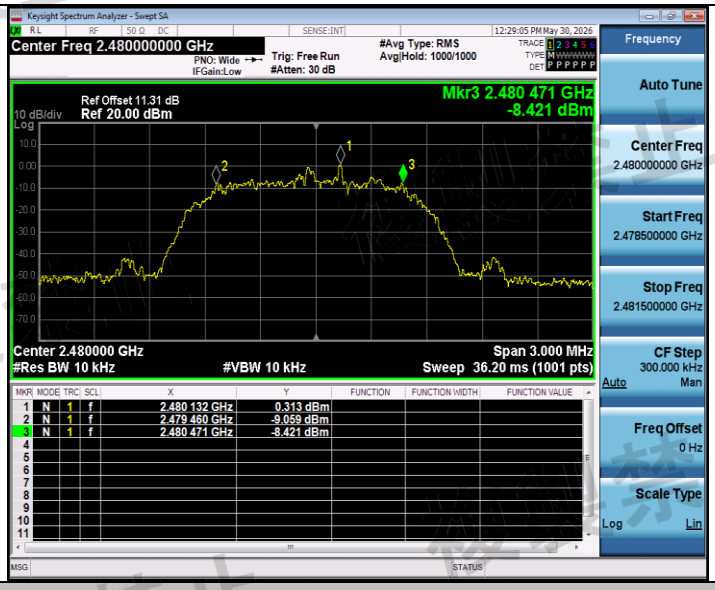
NTNV_2DH5_Ant1_2441




NTNV_2DH5_Ant1_2480

NTNV_3DH5_Ant1_2402

NTNV_3DH5_Ant1_2441




NTNV_3DH5_Ant1_2480

# Appendix B: Antenna power, antenna power tolerance and E.I.R.P.

## Test Result

| Antenna Power | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Test Condition | Test Mode | Antenna | Freq (MHz) | Result (dBm) | Result (mW) | Spread bandwidth [MHz] | Power (mW/MHz) | Limit (mW/MHz) | Verdict |
| NTNV | DH5 | Ant1 | Hop | 21.35 | 136.45 | 71.884 | 1.898 | ≤3 | PASS |
| | 2DH5 | | Hop | 21.76 | 149.97 | 71.820 | 2.088 | ≤3 | PASS |
| | 3DH5 | | Hop | 21.26 | 133.66 | 72.011 | 1.856 | ≤3 | PASS |

| Tolerance | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Test Condition | Test Mode | Antenna | Freq (MHz) | Power (mW/MHz) | Rated Power (mW/MHz) | Result (%) | Limit (%) | Verdict |
| NTNV | DH5 | Ant1 | Hop | 1.898 | 2 | -4.07 | +20 | PASS |
| | 2DH5 | | Hop | 2.088 | 2 | 3.53 | +20 | PASS |
| | 3DH5 | | Hop | 1.856 | 2 | -5.76 | +20 | PASS |

| EIRP | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Test Condition | Test Mode | Antenna | Freq (MHz) | Power (dBm/MHz) | Antenna gain (dBi) | EIRP (dBm/MHz) | Limit (dBm/MHz) | Verdict |
| NTNV | DH5 | Ant1 | Hop | 1.898 | 2.48 | 4.378 | ≤6.91 | PASS |
| | 2DH5 | | Hop | 2.088 | 2.48 | 4.568 | ≤6.91 | PASS |
| | 3DH5 | | Hop | 1.856 | 2.48 | 4.336 | ≤6.91 | PASS |

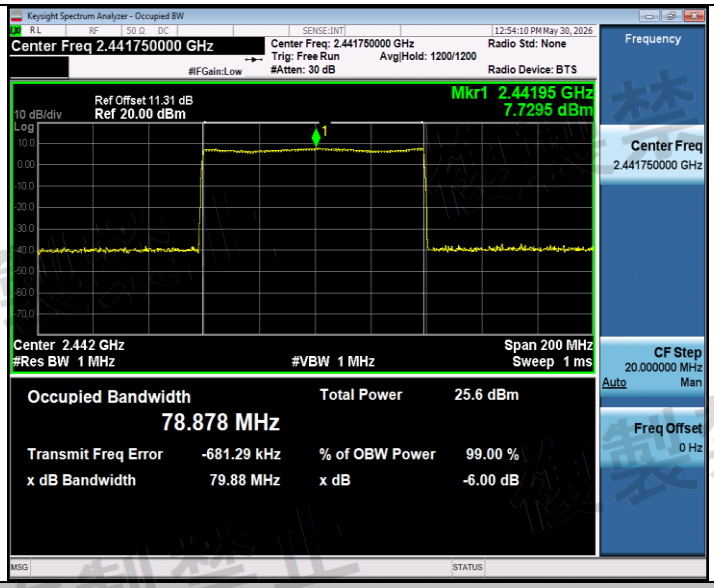
Remark:

1. EIRP= Antenna Power +Antenna Gain.
2. Antenna Gain 2.48dBi

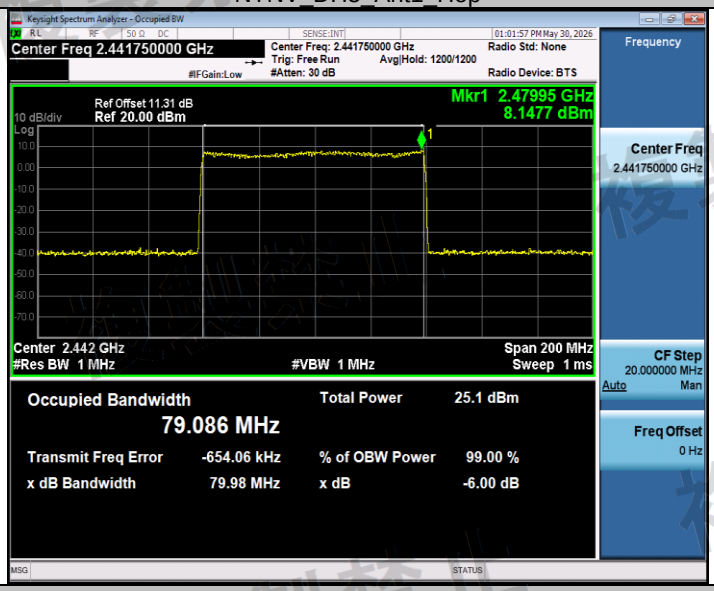
# Appendix C: Occupied Bandwidth

## Test Result

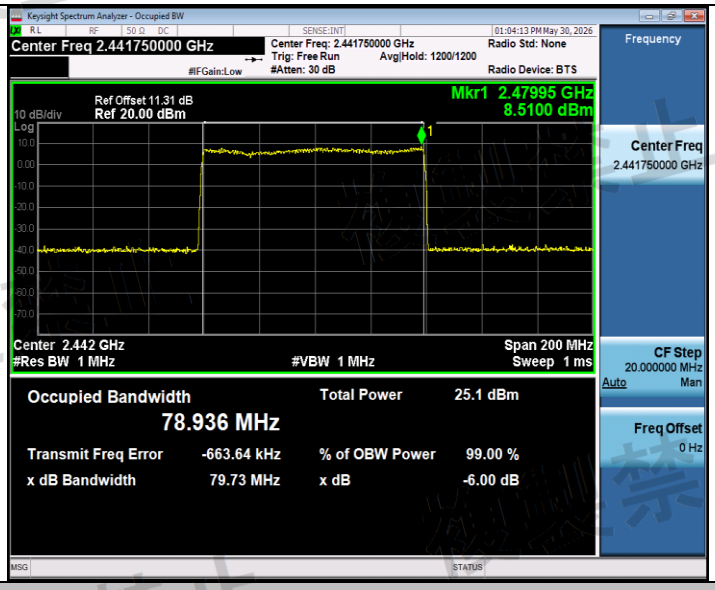
| Test Condition | Test Mode | Antenna | Freq(MHz) | Result [MHz] | Limit [MHz] | Verdict |
|---|---|---|---|---|---|---|
| NTNV | DH5 | Ant1 | Hop | 78.878 | ≤83.5 | PASS |
| | 2DH5 | Ant1 | Hop | 79.086 | ≤83.5 | PASS |
| | 3DH5 | Ant1 | Hop | 78.936 | ≤83.5 | PASS |




NTNV_DH5_Ant1_Hop




NTNV_2DH5_Ant1_Hop

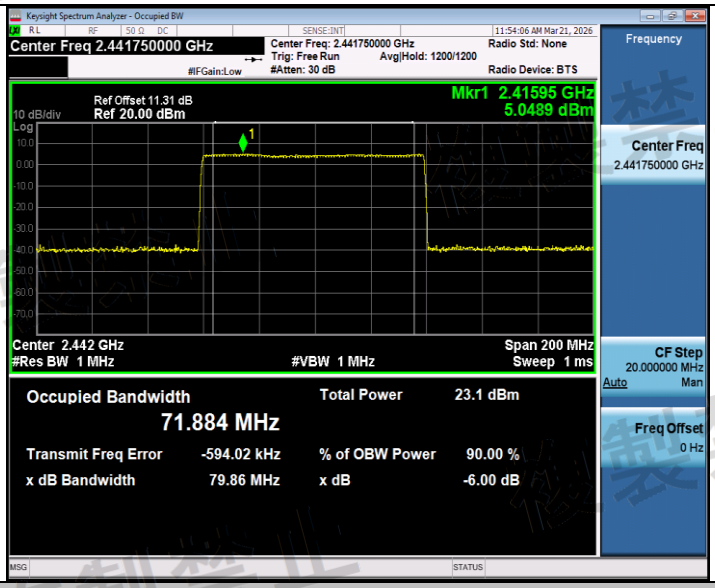



NTNV_3DH5_Ant1_Hop

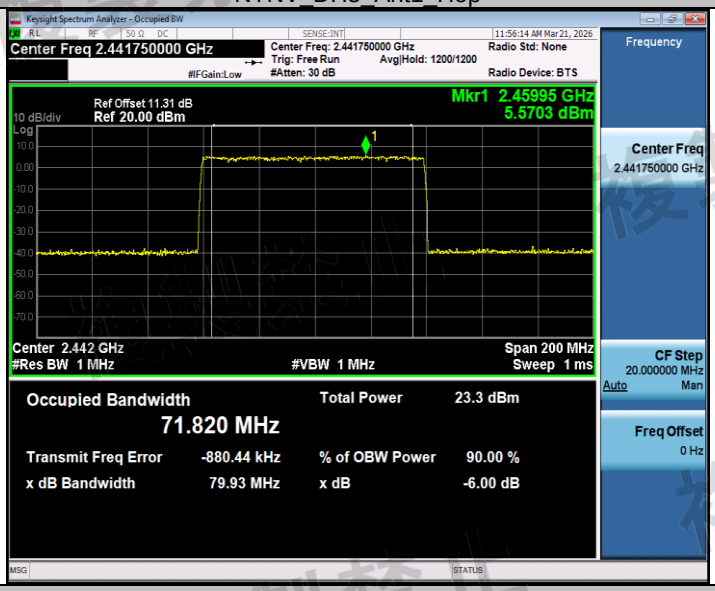
# Appendix D: Spread Bandwidth and Spreading Factor

## Test Result

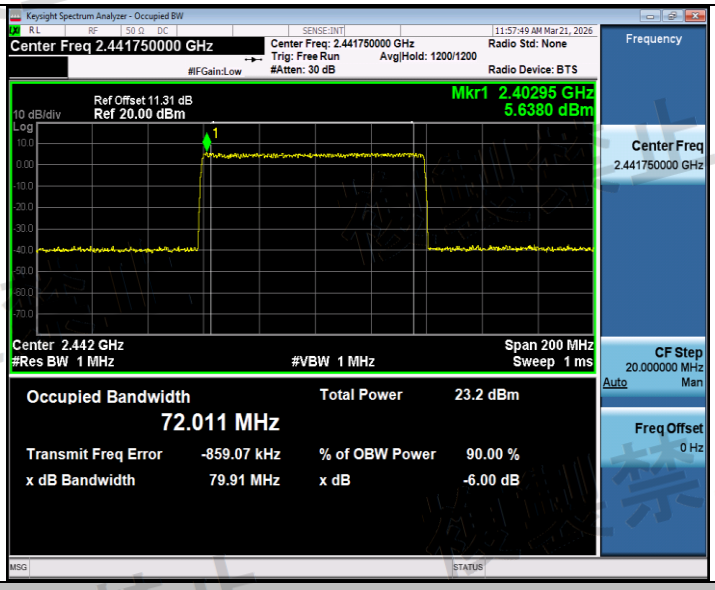
| Test Condition | Test Mode | Antenna | Freq(MHz) | Result [MHz] | Limit [MHz] | Spread Factor | Verdict |
|---|---|---|---|---|---|---|---|
| NTNV | DH5 | Ant1 | Hop | 71.884 | ≥0.5 | 71.884 | PASS |
| | 2DH5 | Ant1 | Hop | 71.820 | ≥0.5 | 71.820 | PASS |
| | 3DH5 | Ant1 | Hop | 72.011 | ≥0.5 | 72.011 | PASS |




NTNV_DH5_Ant1_Hop




NTNV_2DH5_Ant1_Hop

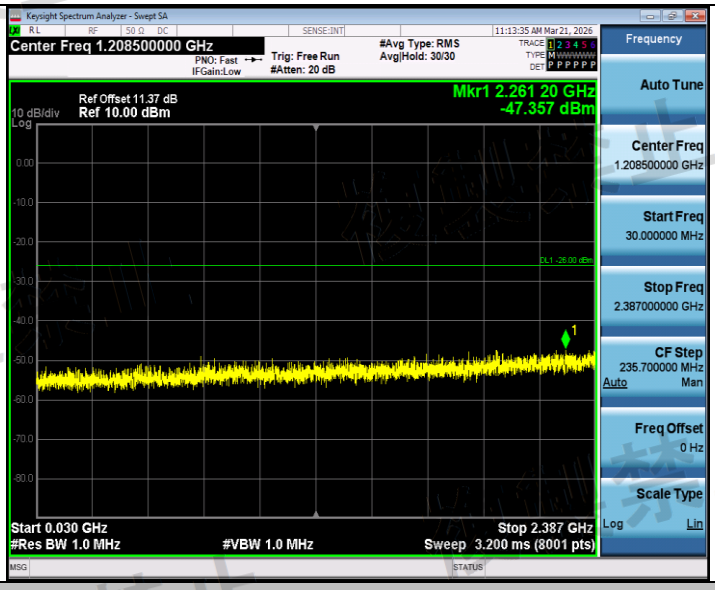



NTNV_3DH5_Ant1_Hop

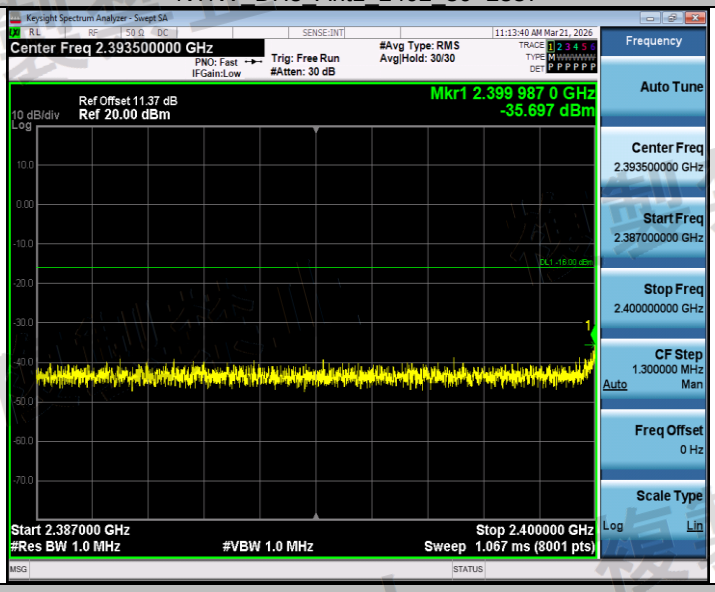
# Appendix E: Transmitter Spurious Emissions

## Test Result

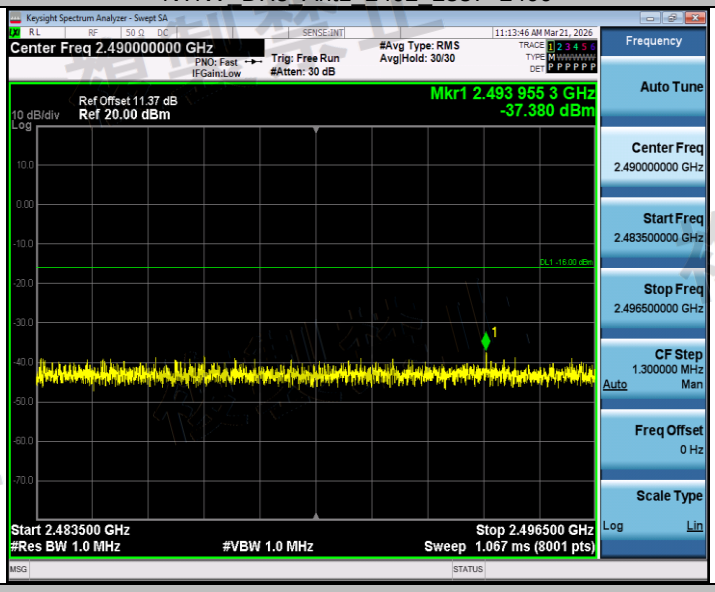
| Test Condition | Test Mode | Antenna | Freq(MHz) | Freq.Range [MHz] | Result [dBm/MHz] | Limit [dBm/MHz] | Result [μW/MHz] | Limit [μW/MHz] | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| NTNV | DH5 | Ant1 | 2402 | 30~2387 | -47.36 | ≤-26 | 0.01837 | ≤2.5 | PASS |
| | | | | 2387~2400 | -35.70 | ≤-16 | 0.26915 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | -37.38 | ≤-16 | 0.18281 | ≤25 | PASS |
| | | | | 2496.5~13000 | -42.69 | ≤-26 | 0.05383 | ≤2.5 | PASS |
| | | | 2441 | 30~2387 | -46.47 | ≤-26 | 0.02254 | ≤2.5 | PASS |
| | | | | 2387~2400 | -37.98 | ≤-16 | 0.15922 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | -38.58 | ≤-16 | 0.13868 | ≤25 | PASS |
| | | | | 2496.5~13000 | -42.75 | ≤-26 | 0.05309 | ≤2.5 | PASS |
| | | | 2480 | 30~2387 | -47.02 | ≤-26 | 0.01986 | ≤2.5 | PASS |
| | | | | 2387~2400 | -38.24 | ≤-16 | 0.14997 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | -38.22 | ≤-16 | 0.15066 | ≤25 | PASS |
| | | | | 2496.5~13000 | -43.30 | ≤-26 | 0.04677 | ≤2.5 | PASS |
| | 2DH5 | Ant1 | 2402 | 30~2387 | -45.15 | ≤-26 | 0.03055 | ≤2.5 | PASS |
| | | | | 2387~2400 | -29.61 | ≤-16 | 1.09396 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | -38.17 | ≤-16 | 0.15241 | ≤25 | PASS |
| | | | | 2496.5~13000 | -42.91 | ≤-26 | 0.05117 | ≤2.5 | PASS |
| | | | 2441 | 30~2387 | -34.90 | ≤-26 | 0.32359 | ≤2.5 | PASS |
| | | | | 2387~2400 | -37.87 | ≤-16 | 0.16331 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | -37.78 | ≤-16 | 0.16672 | ≤25 | PASS |
| | | | | 2496.5~13000 | -42.20 | ≤-26 | 0.06026 | ≤2.5 | PASS |
| | | | 2480 | 30~2387 | -46.93 | ≤-26 | 0.02028 | ≤2.5 | PASS |
| | | | | 2387~2400 | -38.51 | ≤-16 | 0.14093 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | -38.13 | ≤-16 | 0.15382 | ≤25 | PASS |
| | | | | 2496.5~13000 | -43.16 | ≤-26 | 0.04831 | ≤2.5 | PASS |
| | 3DH5 | Ant1 | 2402 | 30~2387 | -46.14 | ≤-26 | 0.02432 | ≤2.5 | PASS |
| | | | | 2387~2400 | -38.79 | ≤-16 | 0.13213 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | -38.25 | ≤-16 | 0.14962 | ≤25 | PASS |
| | | | | 2496.5~13000 | -42.60 | ≤-26 | 0.05495 | ≤2.5 | PASS |
| | | | 2441 | 30~2387 | -47.61 | ≤-26 | 0.01734 | ≤2.5 | PASS |
| | | | | 2387~2400 | -39.03 | ≤-16 | 0.12503 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | -38.59 | ≤-16 | 0.13836 | ≤25 | PASS |
| | | | | 2496.5~13000 | -43.13 | ≤-26 | 0.04864 | ≤2.5 | PASS |
| | | | 2480 | 30~2387 | -46.41 | ≤-26 | 0.02286 | ≤2.5 | PASS |
| | | | | 2387~2400 | -38.70 | ≤-16 | 0.13490 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | -38.32 | ≤-16 | 0.14723 | ≤25 | PASS |
| | | | | 2496.5~13000 | -42.90 | ≤-26 | 0.05129 | ≤2.5 | PASS |



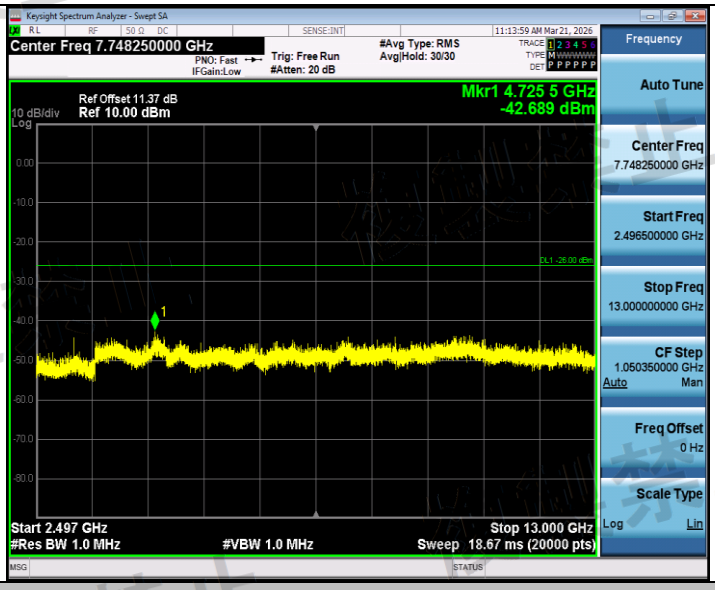

NTNV_DH5_Ant1_2402_30~2387



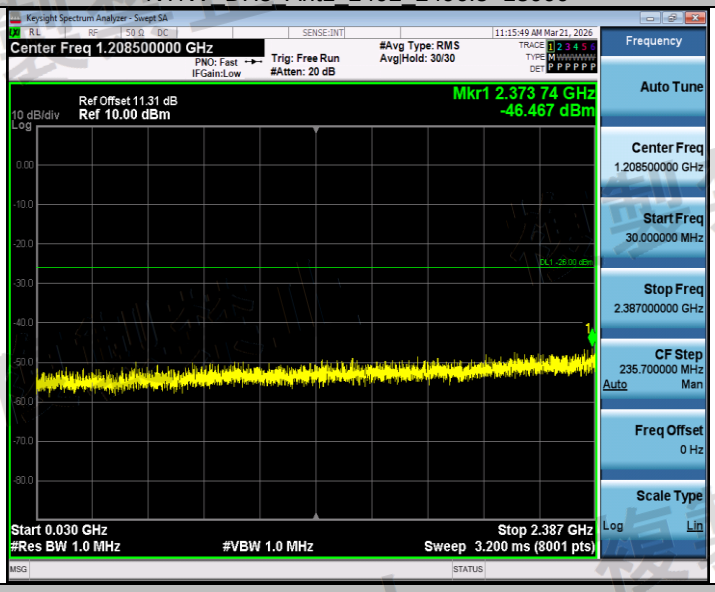

NTNV_DH5_Ant1_2402_2387~2400



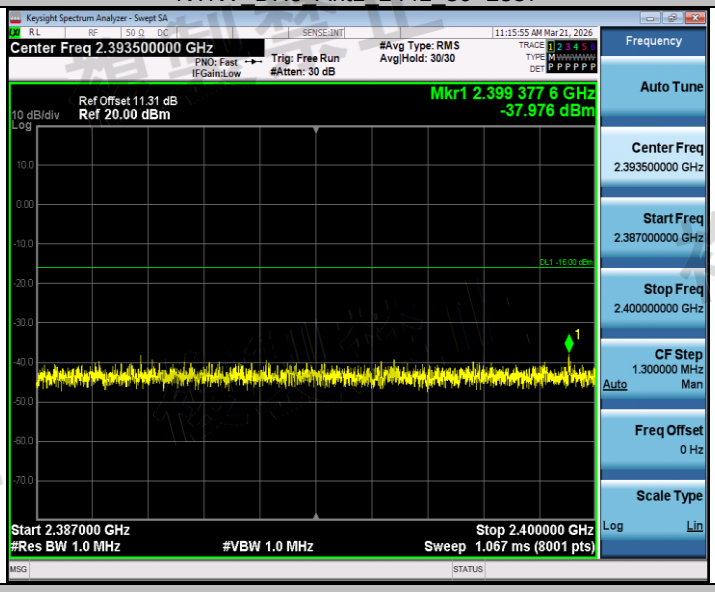

NTNV_DH5_Ant1_2402_2483.5~2496.5



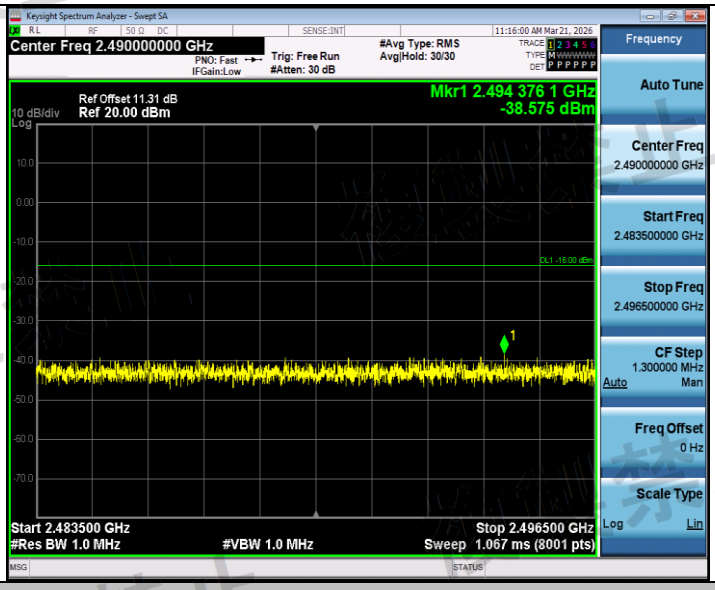

NTNV_DH5_Ant1_2402_2496.5~13000



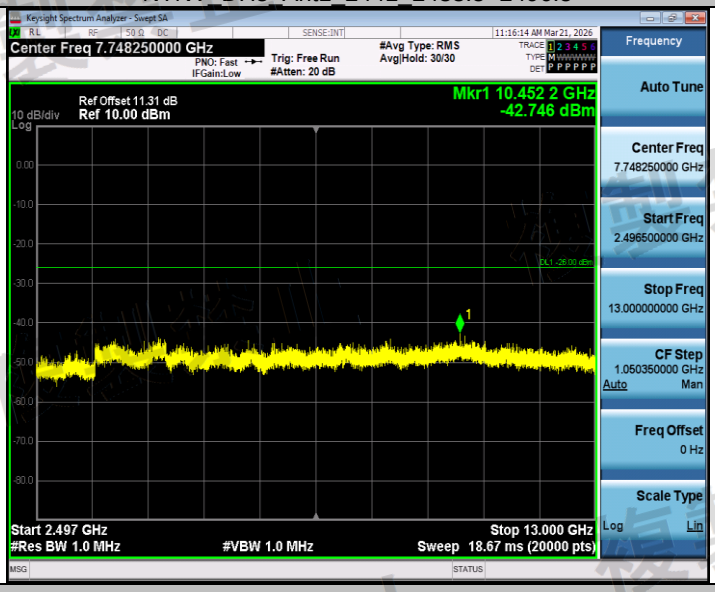

NTNV_DH5_Ant1_2441_30~2387



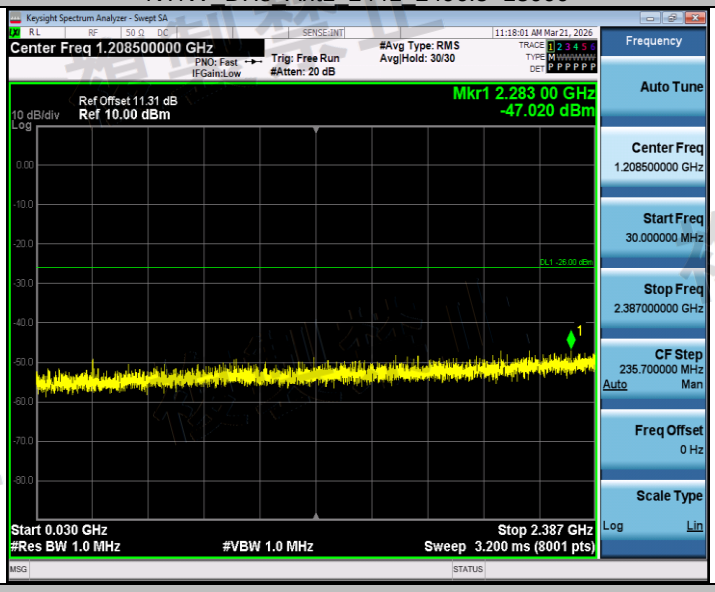

NTNV_DH5_Ant1_2441_2387~2400



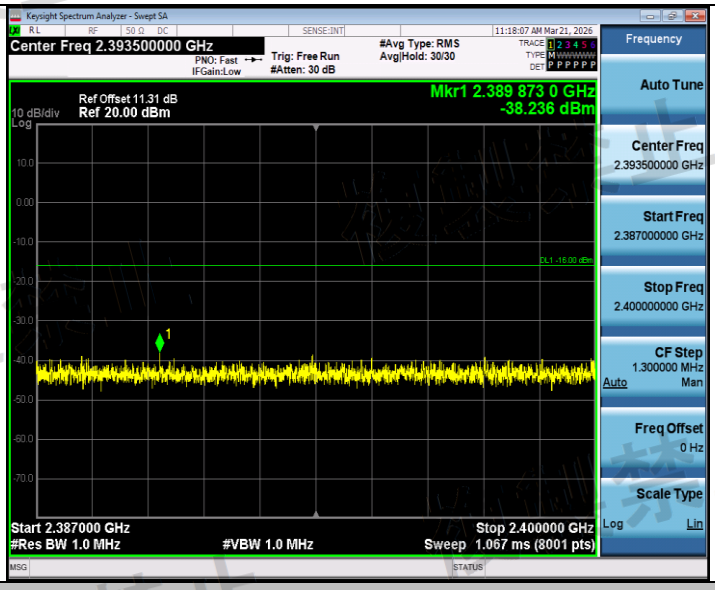

NTNV_DH5_Ant1_2441_2483.5~2496.5



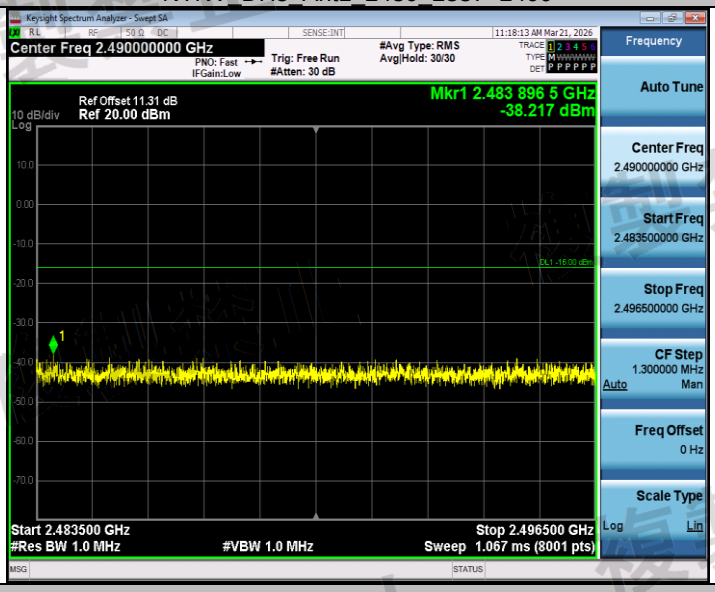

NTNV_DH5_Ant1_2441_2496.5~13000



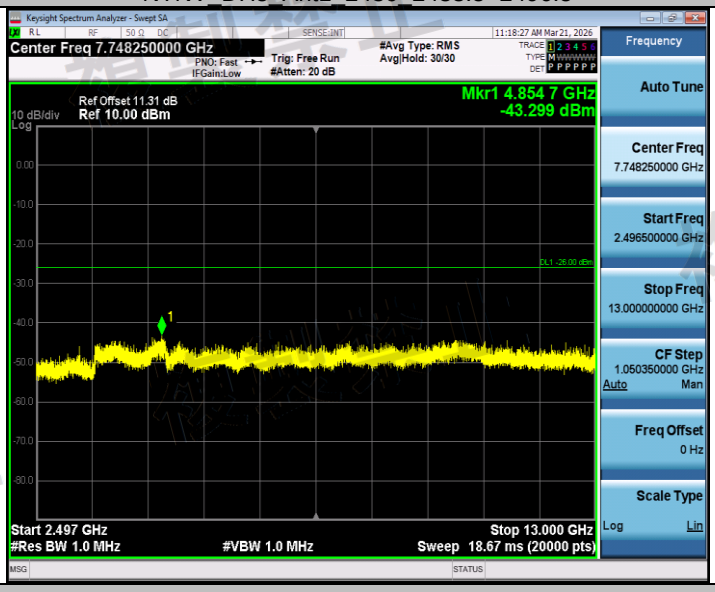

NTNV_DH5_Ant1_2480_30~2387



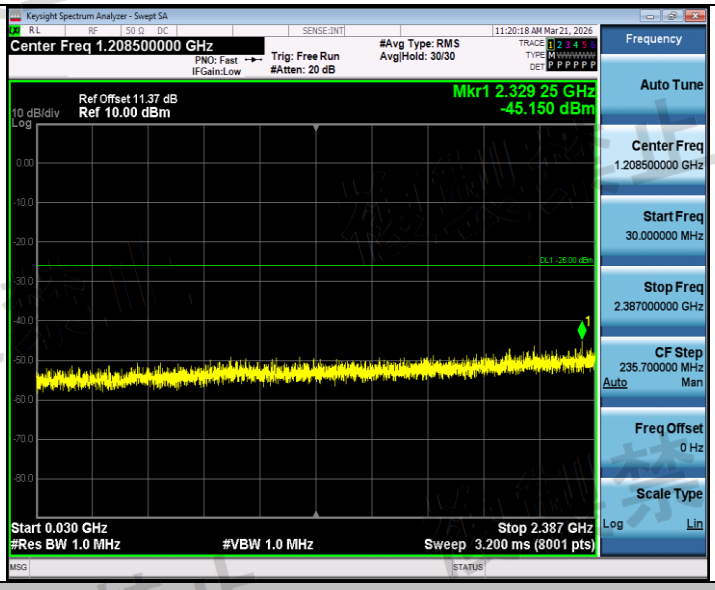

NTNV_DH5_Ant1_2480_2387~2400



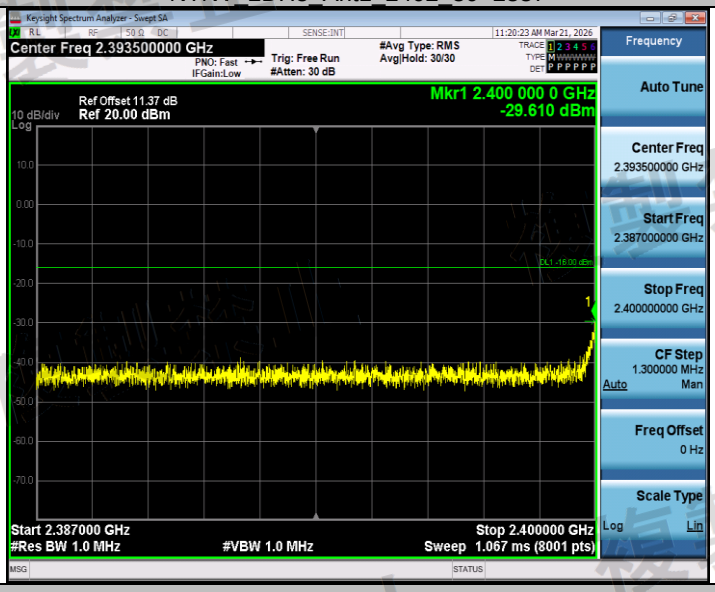

NTNV_DH5_Ant1_2480_2483.5~2496.5



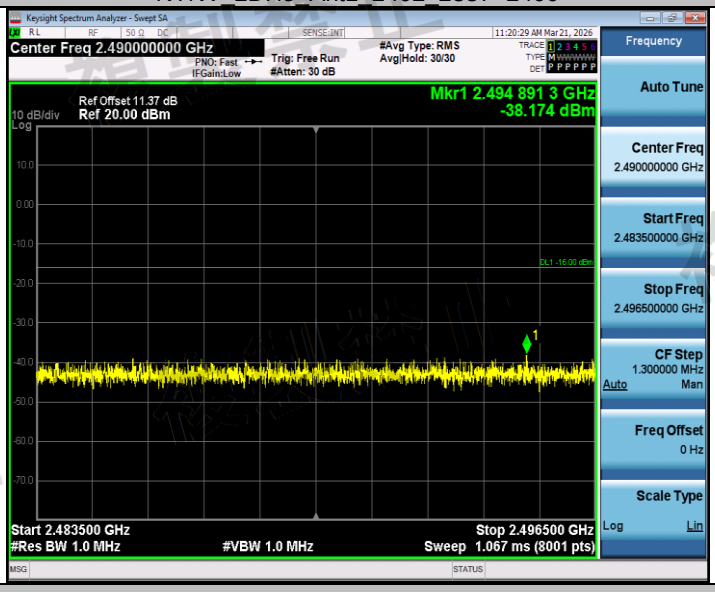

NTNV_DH5_Ant1_2480_2496.5~13000



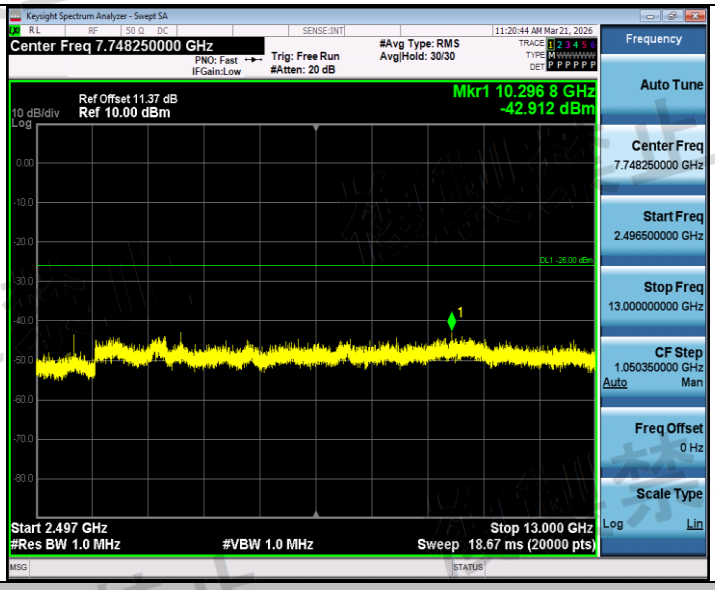

NTNV_2DH5_Ant1_2402_30~2387



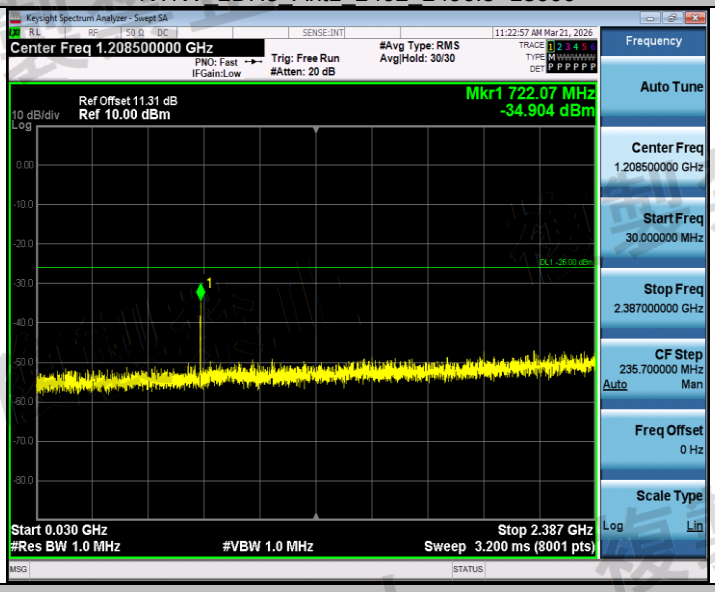

NTNV_2DH5_Ant1_2402_2387~2400



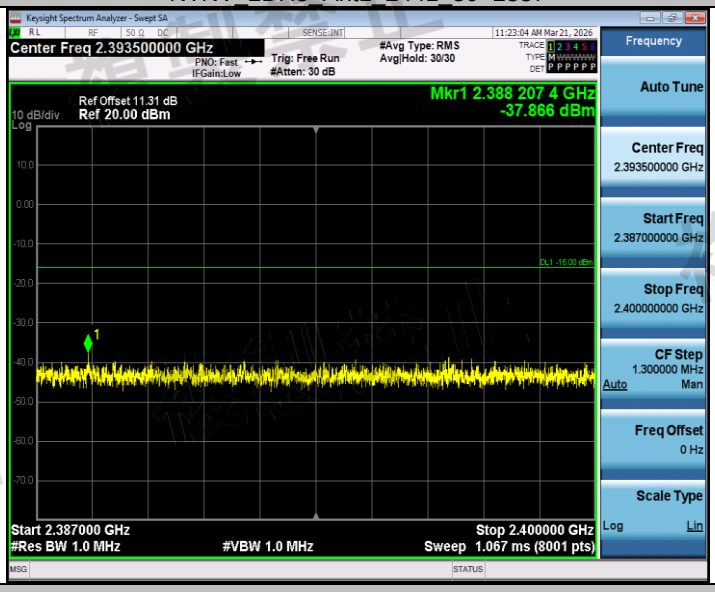

NTNV_2DH5_Ant1_2402_2483.5~2496.5



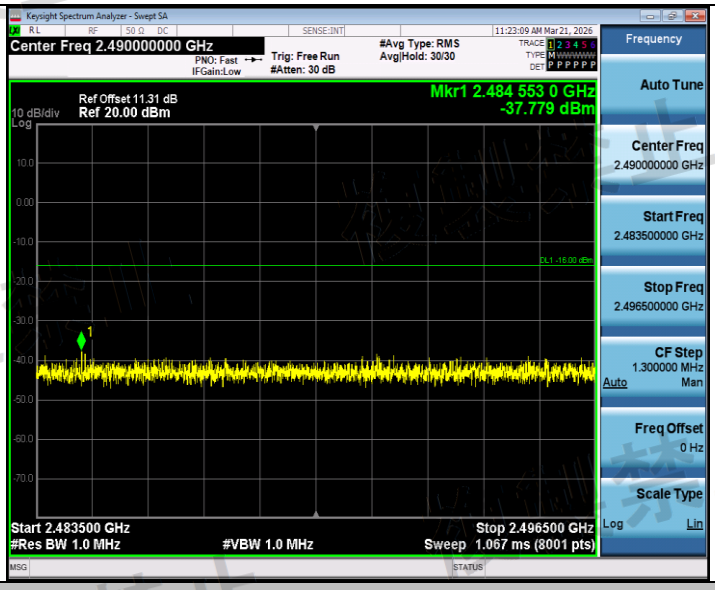

NTNV_2DH5_Ant1_2402_2496.5~13000



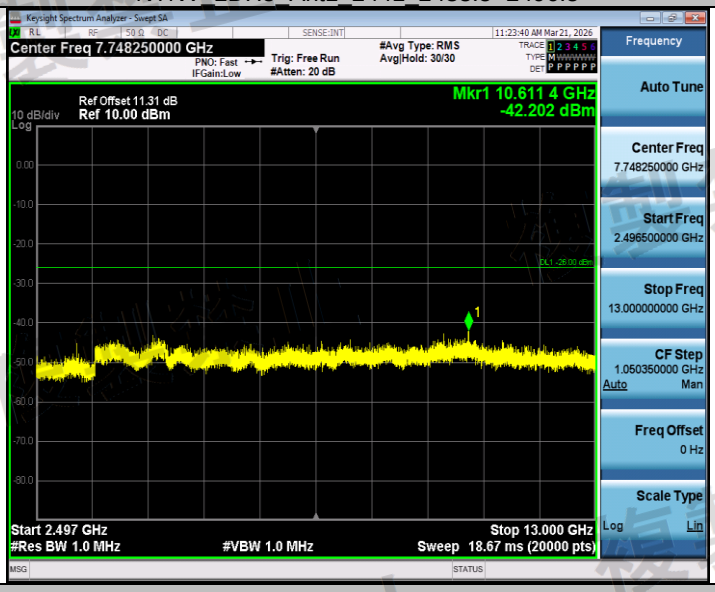

NTNV_2DH5_Ant1_2441_30~2387



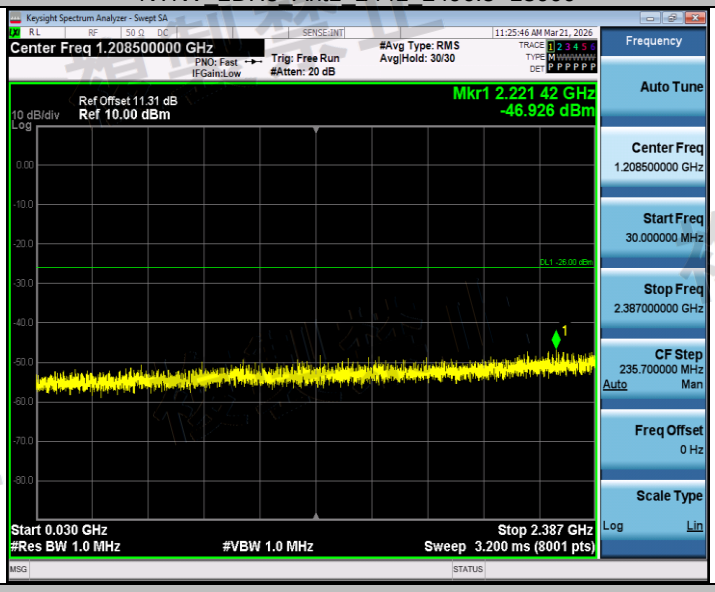

NTNV_2DH5_Ant1_2441_2387~2400



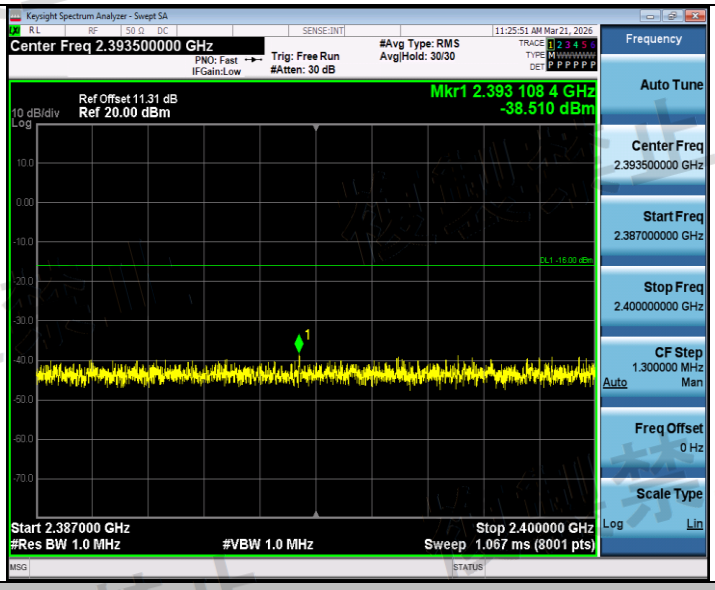

NTNV_2DH5_Ant1_2441_2483.5~2496.5



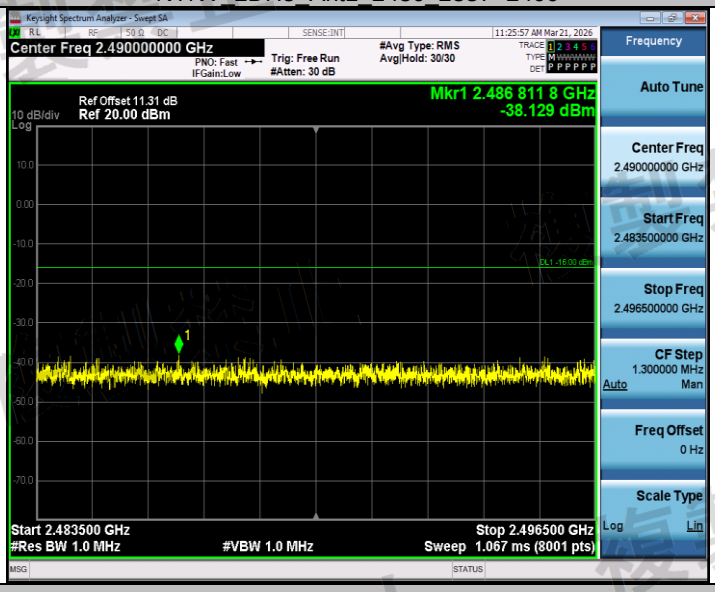

NTNV_2DH5_Ant1_2441_2496.5~13000



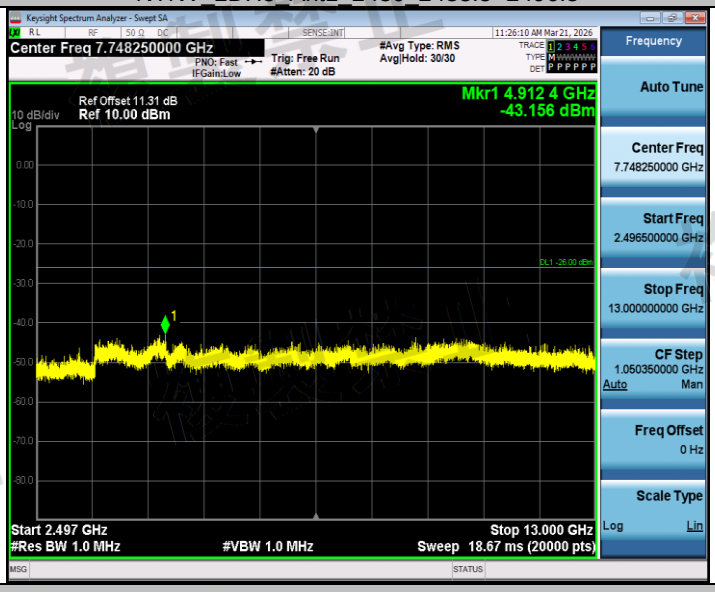

NTNV_2DH5_Ant1_2480_30~2387



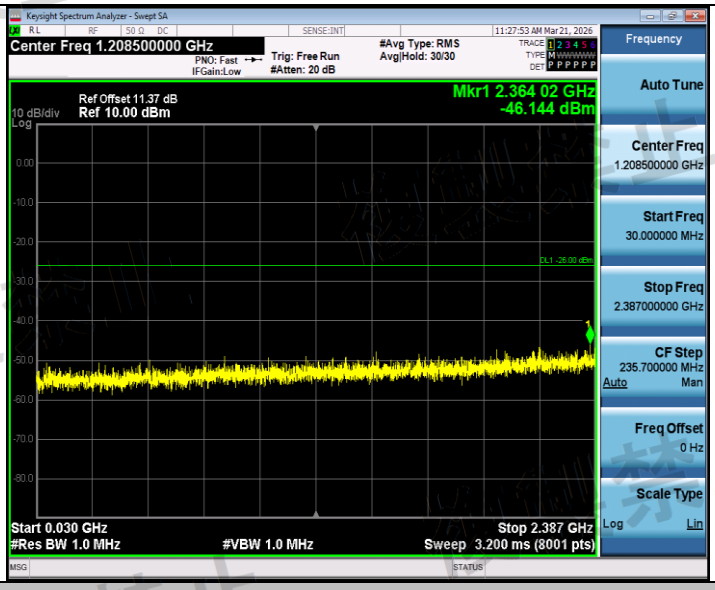

NTNV_2DH5_Ant1_2480_2387~2400



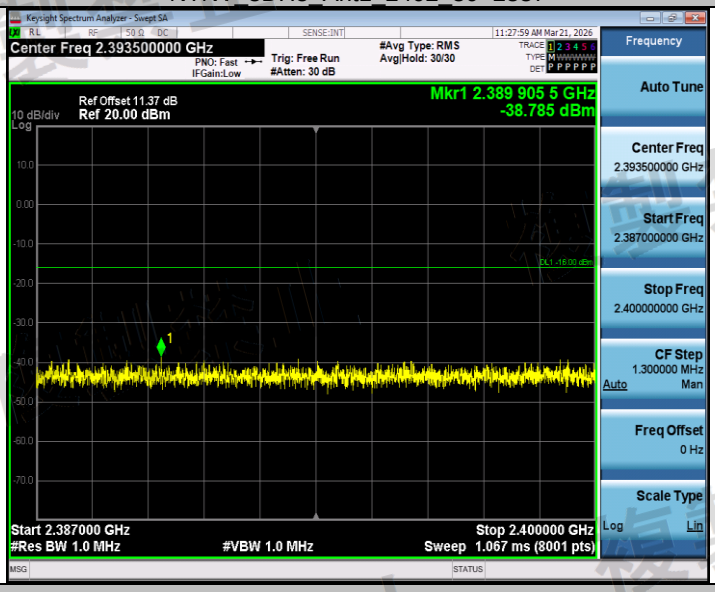

NTNV_2DH5_Ant1_2480_2483.5~2496.5



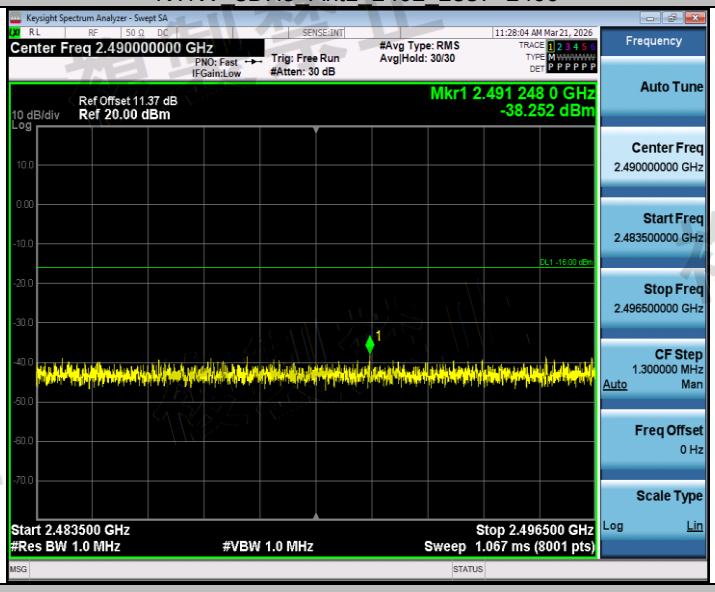

NTNV_2DH5_Ant1_2480_2496.5~13000



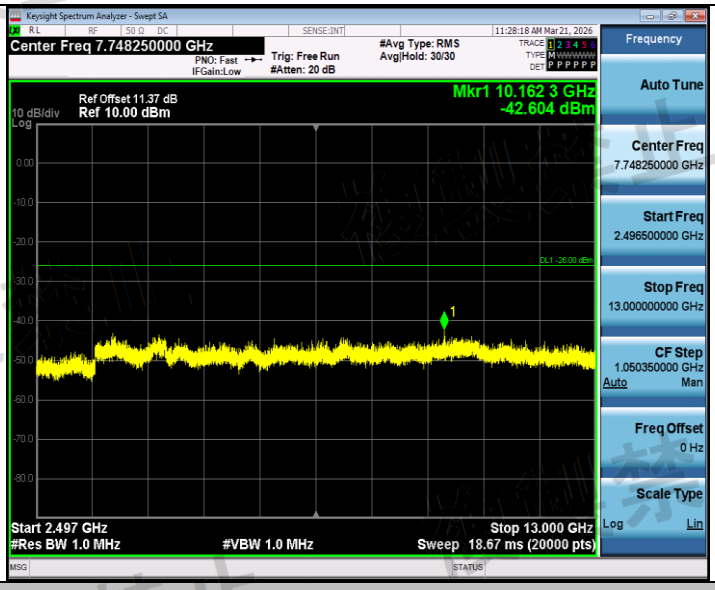

NTNV_3DH5_Ant1_2402_30~2387



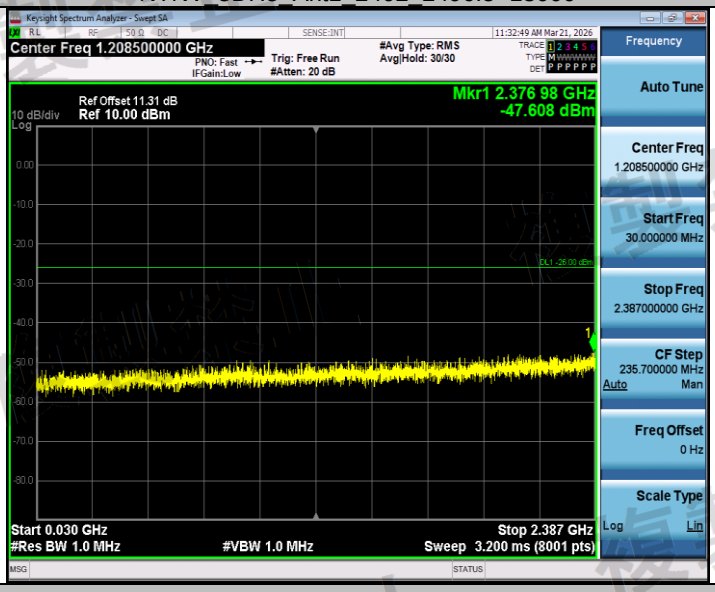

NTNV_3DH5_Ant1_2402_2387~2400



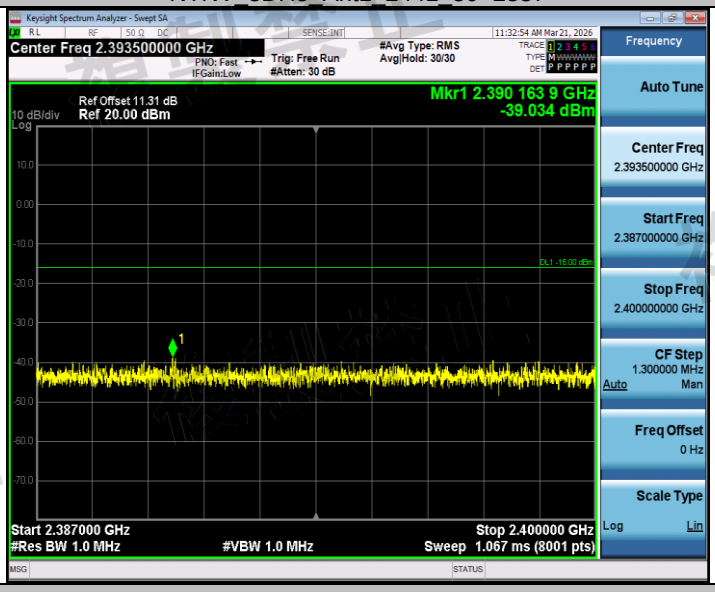

NTNV_3DH5_Ant1_2402_2483.5~2496.5



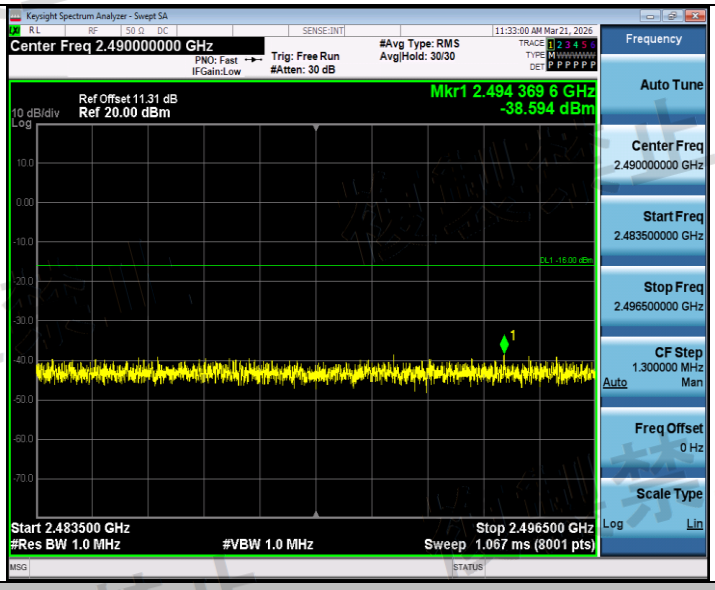

NTNV_3DH5_Ant1_2402_2496.5~13000



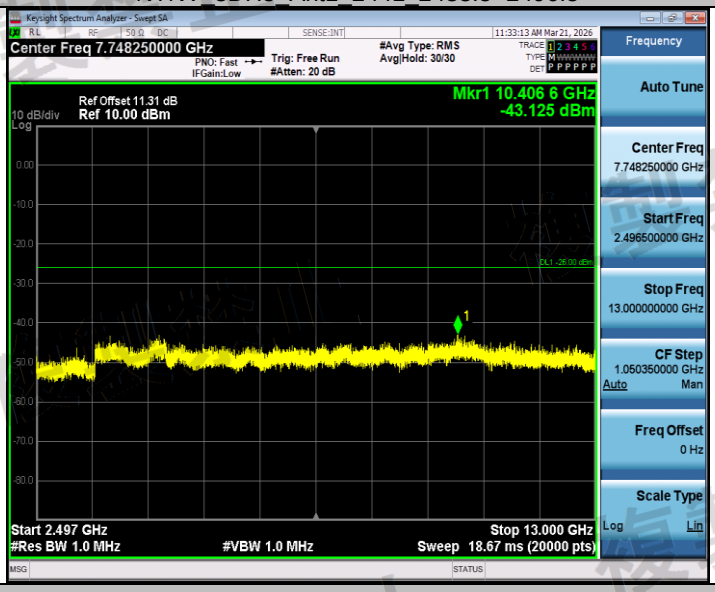

NTNV_3DH5_Ant1_2441_30~2387



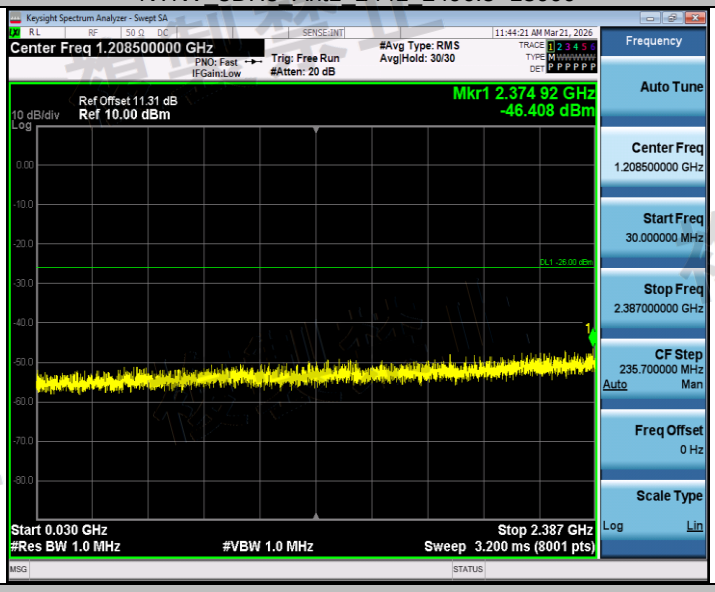

NTNV_3DH5_Ant1_2441_2387~2400



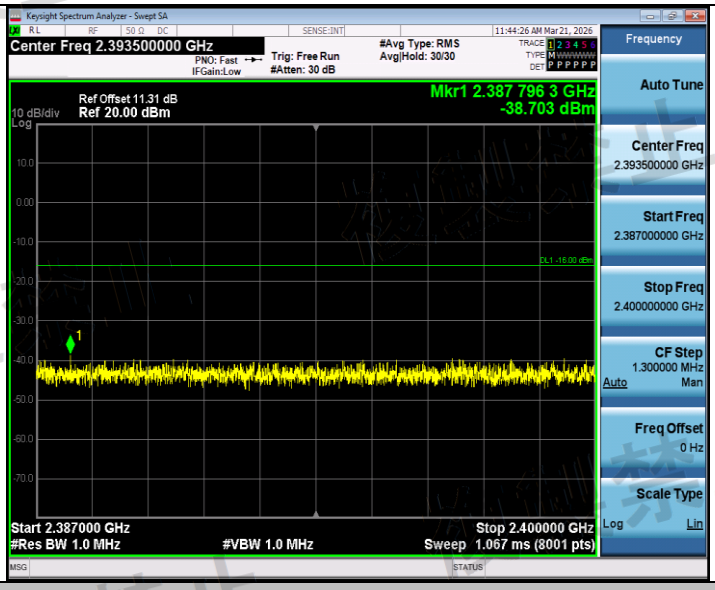

NTNV_3DH5_Ant1_2441_2483.5~2496.5



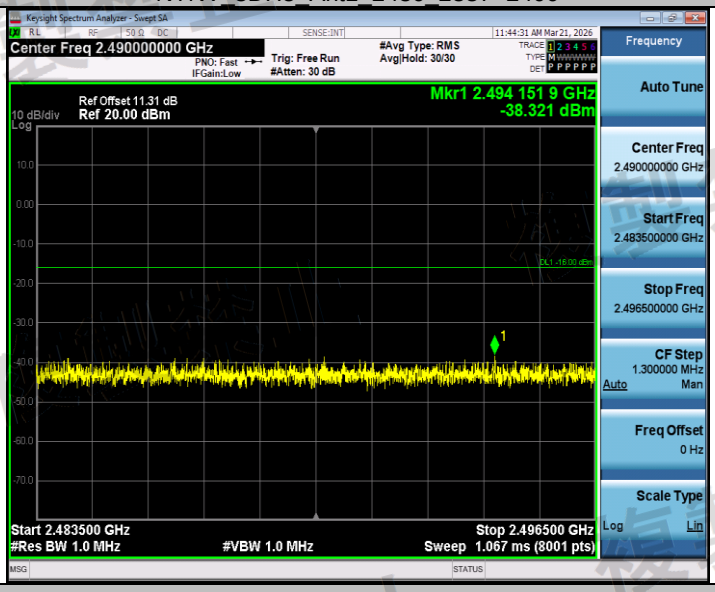

NTNV_3DH5_Ant1_2441_2496.5~13000



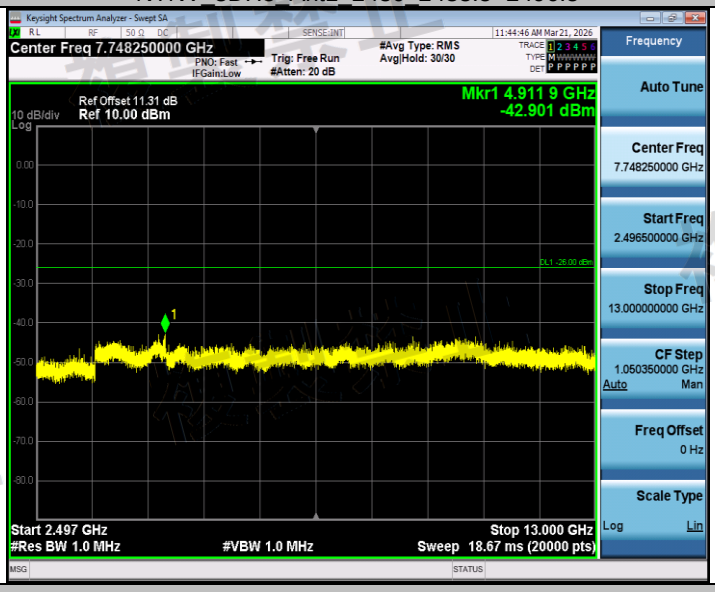

NTNV_3DH5_Ant1_2480_30~2387




NTNV_3DH5_Ant1_2480_2387~2400




NTNV_3DH5_Ant1_2480_2483.5~2496.5

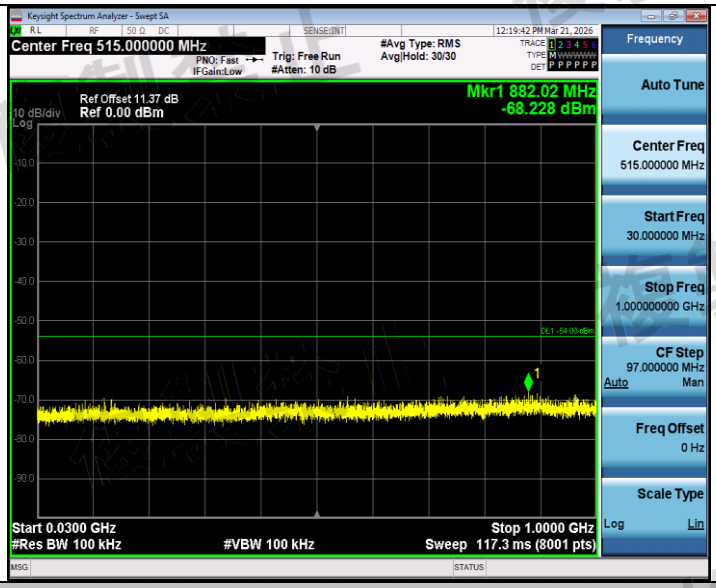



NTNV_3DH5_Ant1_2480_2496.5~13000

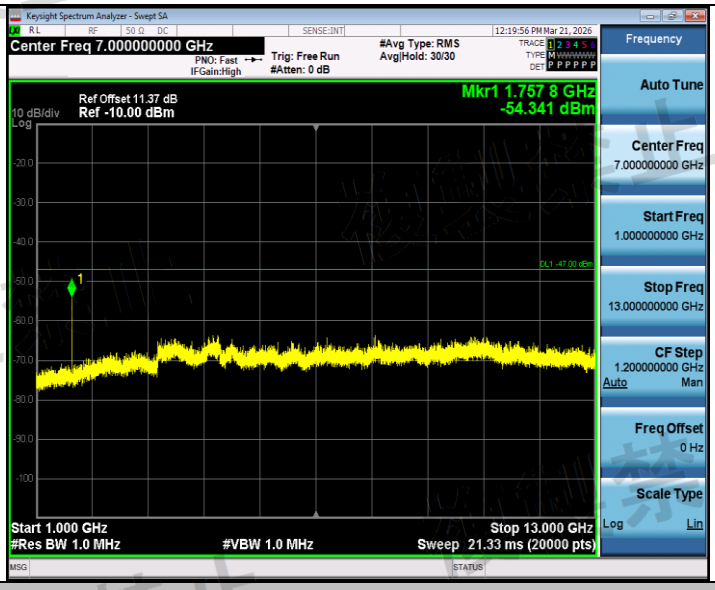
# Appendix F: Receiver spurious emissions

## Test Result

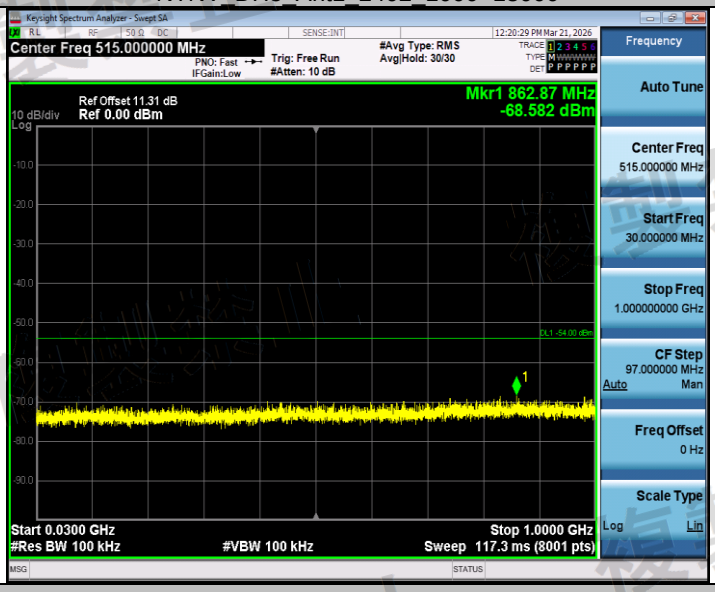
| Test Condition | Test Mode | Antenna | Freq(MHz) | Freq.Range [MHz] | Result [dBm/MHz] | Limit [dBm/MHz] | Result [nW/MHz] | Limit [nW/MHz] | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| NTNV | DH5 | Ant1 | 2402 | 30~1000 | -68.23 | ≤-54 | 0.15031 | ≤4 | PASS |
| | | | | 1000~13000 | -54.34 | ≤-47 | 3.68129 | ≤20 | See table below |
| | | | 2441 | 30~1000 | -68.58 | ≤-54 | 0.13868 | ≤4 | PASS |
| | | | | 1000~13000 | -48.94 | ≤-47 | 12.76439 | ≤20 | See table below |
| | | | 2480 | 30~1000 | -68.24 | ≤-54 | 0.14997 | ≤4 | PASS |
| | | | | 1000~13000 | -61.18 | ≤-47 | 0.76208 | ≤20 | PASS |
| | 2DH5 | Ant1 | 2402 | 30~1000 | -67.64 | ≤-54 | 0.17219 | ≤4 | PASS |
| | | | | 1000~13000 | -62.29 | ≤-47 | 0.59020 | ≤20 | PASS |
| | | | 2441 | 30~1000 | -67.82 | ≤-54 | 0.16520 | ≤4 | PASS |
| | | | | 1000~13000 | -63.53 | ≤-47 | 0.44361 | ≤20 | PASS |
| | | | 2480 | 30~1000 | -68.62 | ≤-54 | 0.13740 | ≤4 | PASS |
| | | | | 1000~13000 | -63.74 | ≤-47 | 0.42267 | ≤20 | PASS |
| | 3DH5 | Ant1 | 2402 | 30~1000 | -68.37 | ≤-54 | 0.14555 | ≤4 | PASS |
| | | | | 1000~13000 | -63.51 | ≤-47 | 0.44566 | ≤20 | PASS |
| | | | 2441 | 30~1000 | -68.12 | ≤-54 | 0.15417 | ≤4 | PASS |
| | | | | 1000~13000 | -63.51 | ≤-47 | 0.44566 | ≤20 | PASS |
| | | | 2480 | 30~1000 | -68.42 | ≤-54 | 0.14388 | ≤4 | PASS |
| | | | | 1000~13000 | -63.45 | ≤-47 | 0.45186 | ≤20 | PASS |



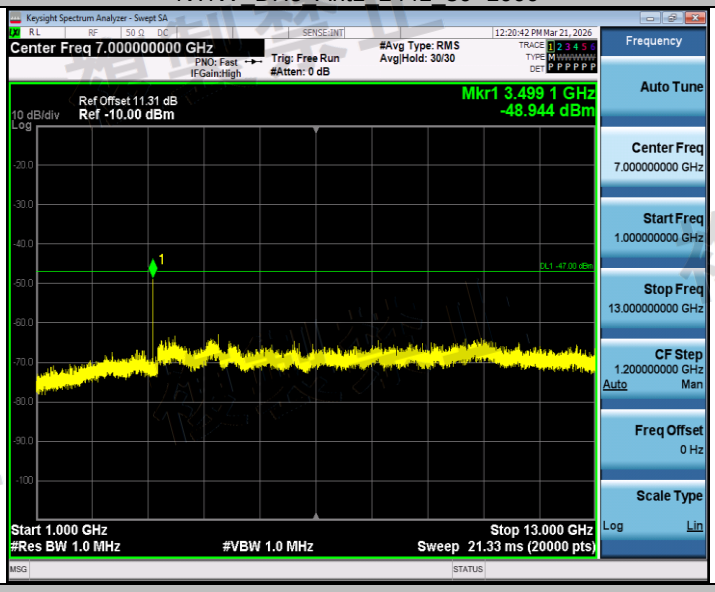

NTNV_DH5_Ant1_2402_30~1000



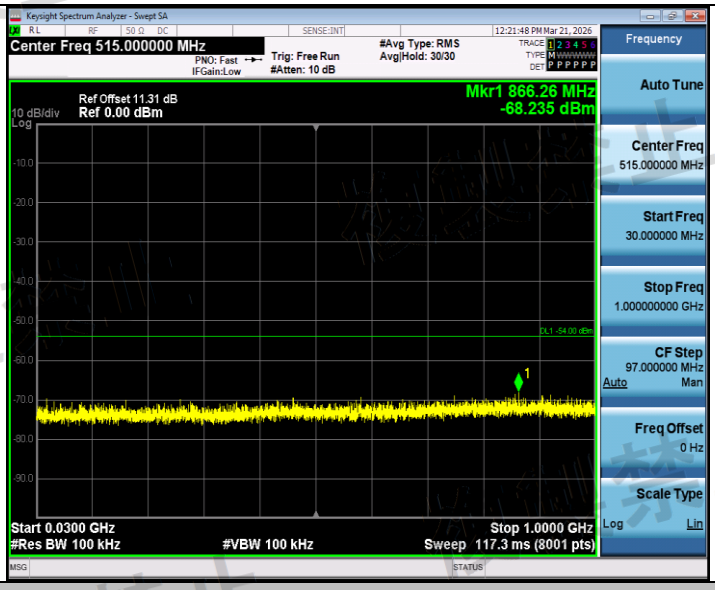

NTNV_DH5_Ant1_2402_1000~13000




NTNV_DH5_Ant1_2441_30~1000

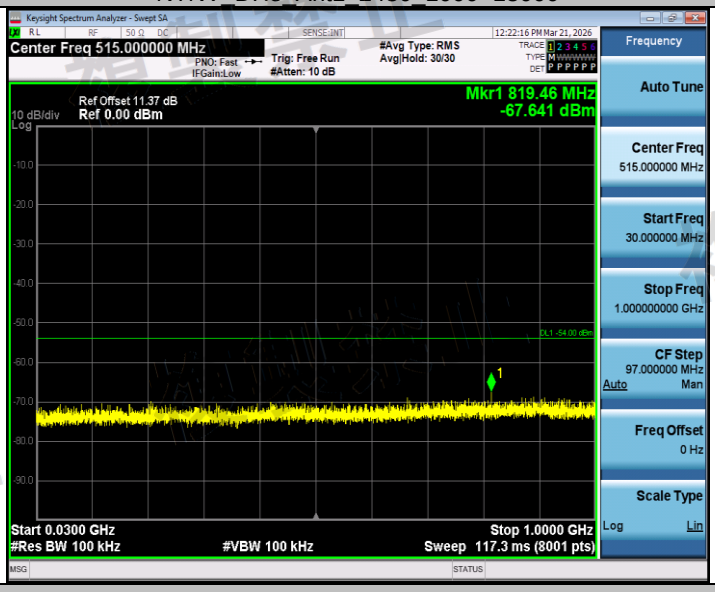



NTNV_DH5_Ant1_2441_1000~13000

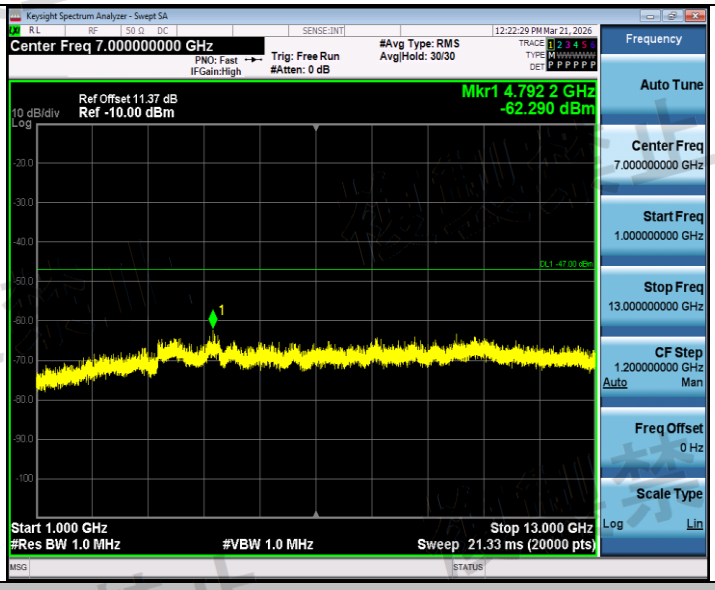



NTNV_DH5_Ant1_2480_30~1000

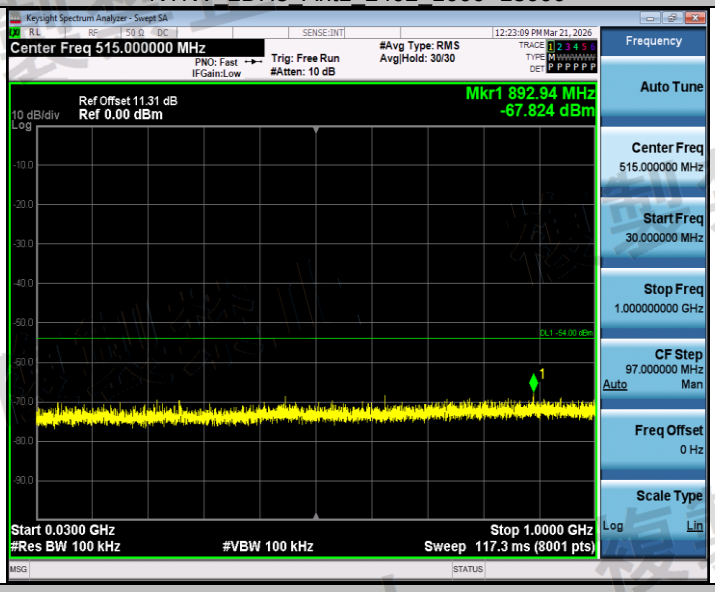
NTNV_DH5_Ant1_2480_1000~13000



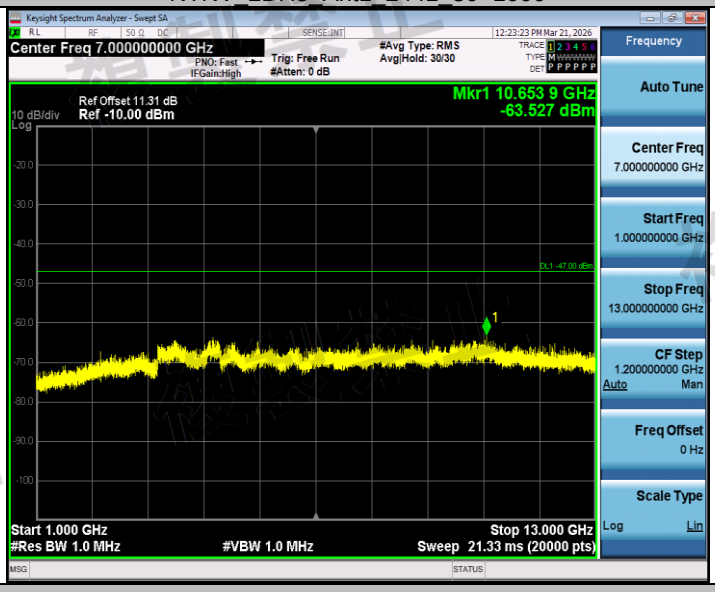

NTNV_2DH5_Ant1_2402_30~1000



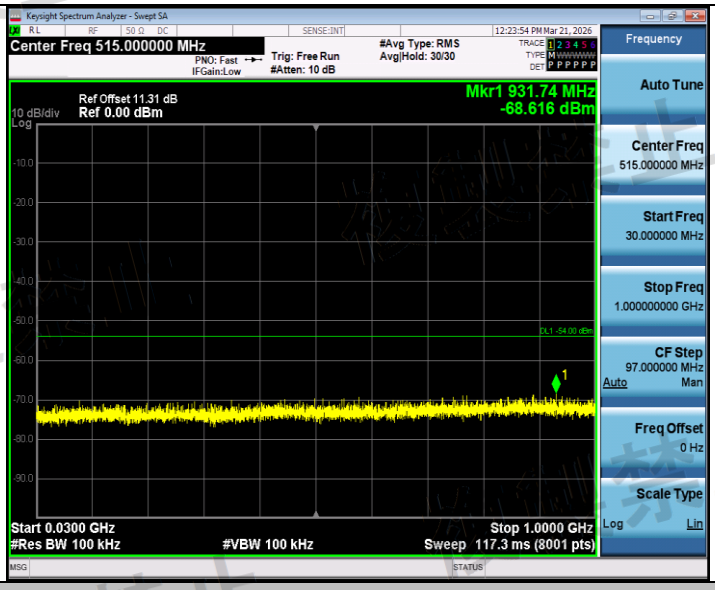

NTNV_2DH5_Ant1_2402_1000~13000



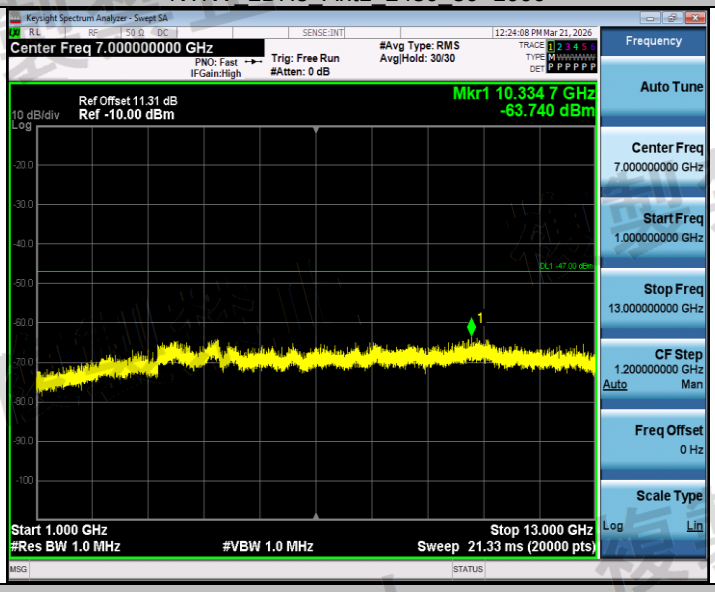

NTNV_2DH5_Ant1_2441_30~1000



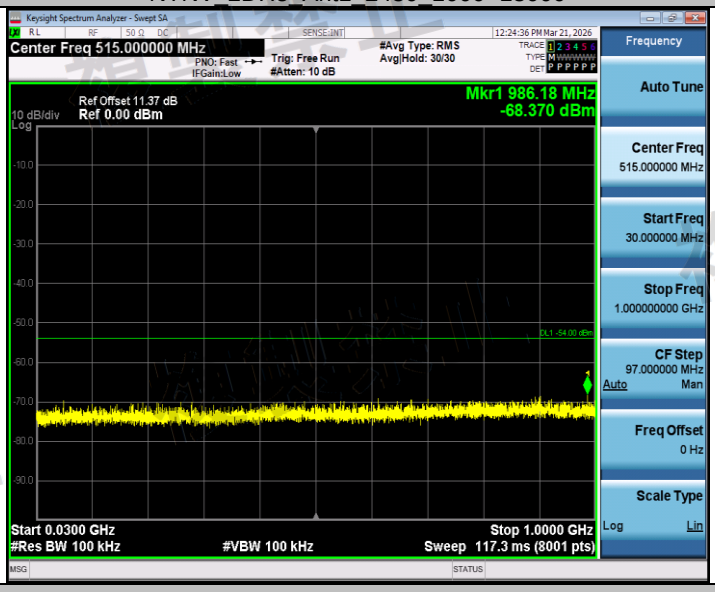

NTNV_2DH5_Ant1_2441_1000~13000



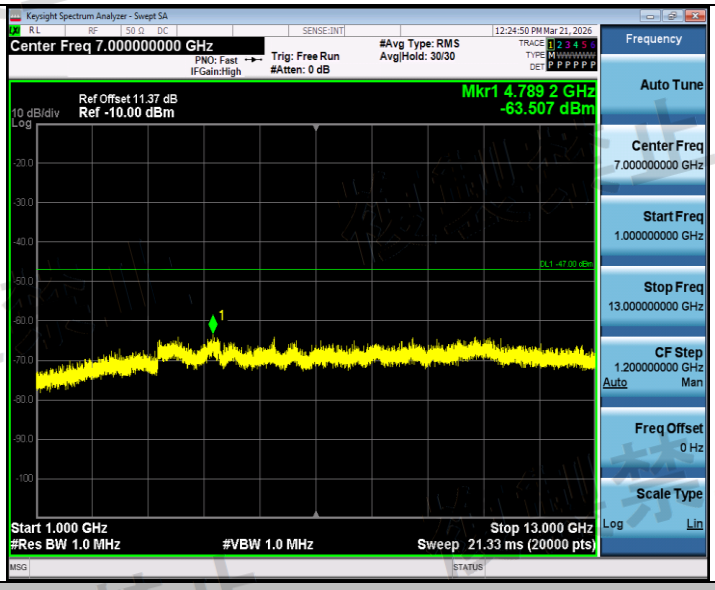

NTNV_2DH5_Ant1_2480_30~1000



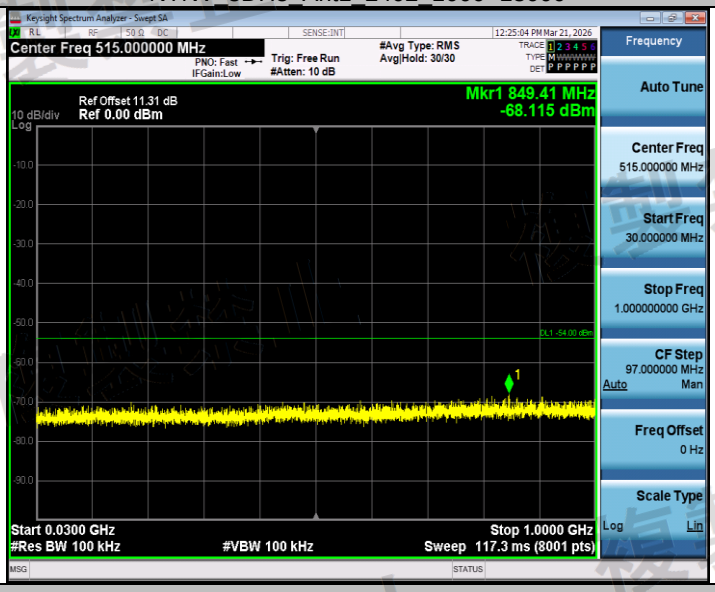

NTNV_2DH5_Ant1_2480_1000~13000



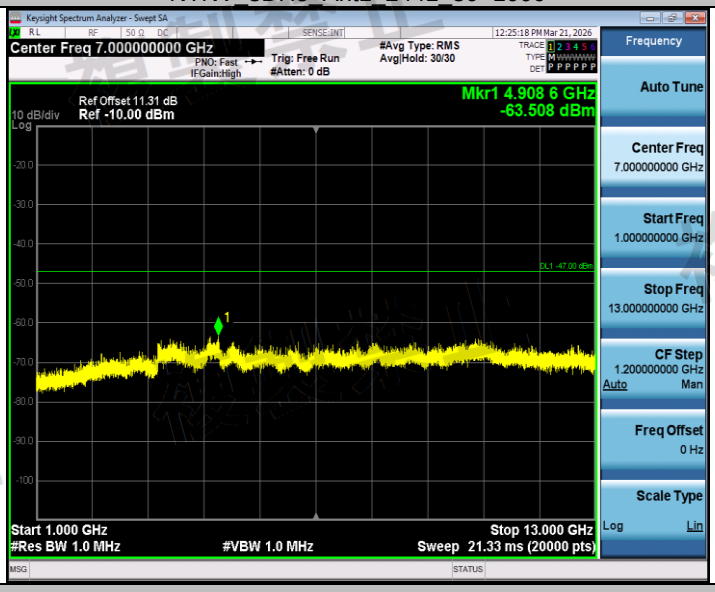

NTNV_3DH5_Ant1_2402_30~1000



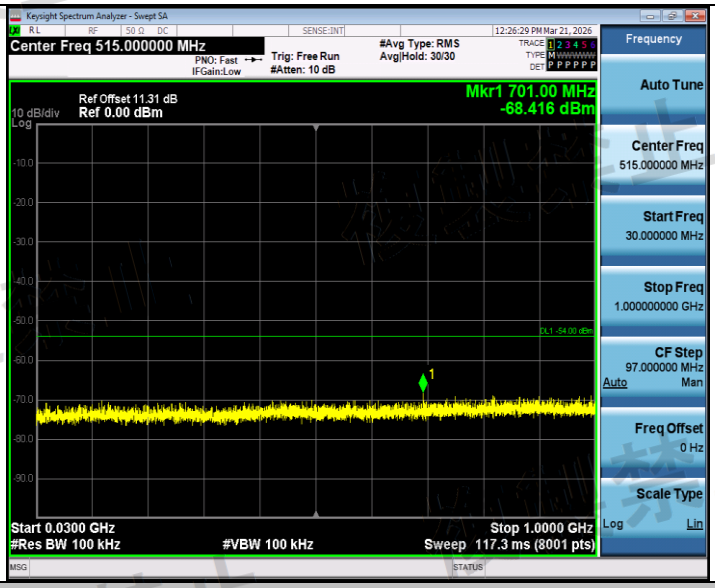

NTNV_3DH5_Ant1_2402_1000~13000



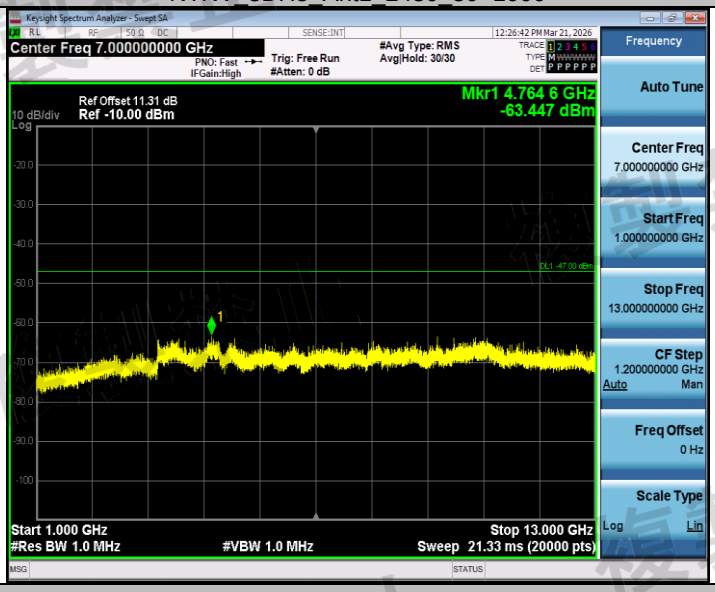

NTNV_3DH5_Ant1_2441_30~1000




NTNV_3DH5_Ant1_2441_1000~13000



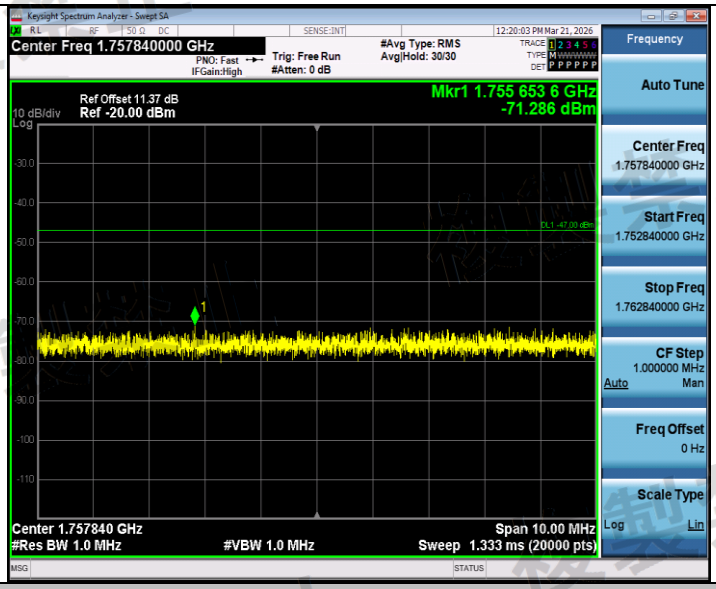

NTNV_3DH5_Ant1_2480_30~1000



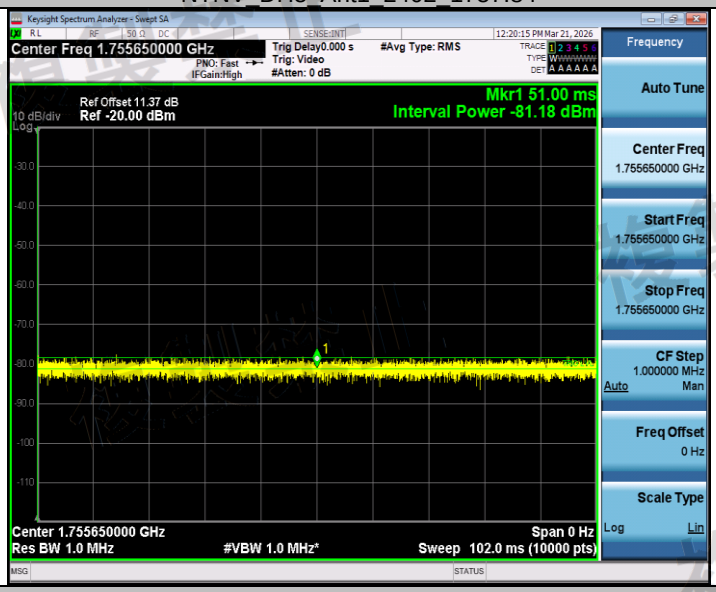

NTNV_3DH5_Ant1_2480_1000~13000

Test Result_Step2

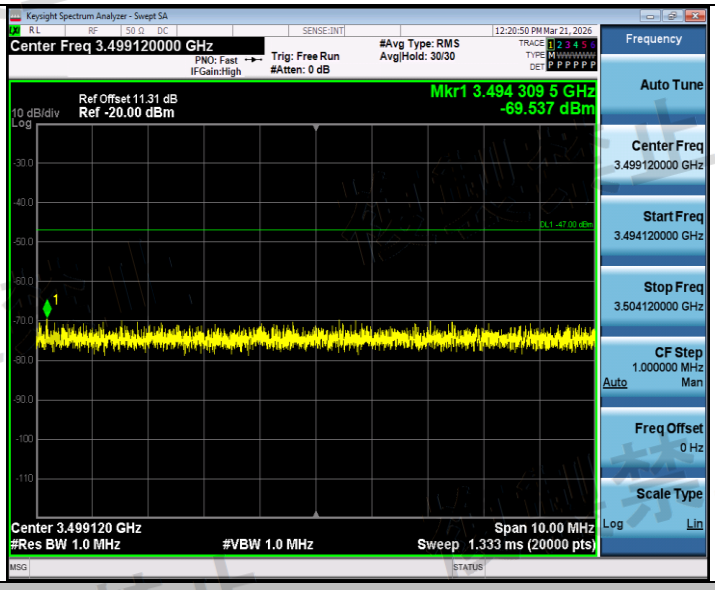
| Test Condition | Test Mode | Antenna | Freq(MHz) | Freq. [MHz] | Result [dBm/MHz] | Limit [dBm/MHz] | Result [nW/MHz] | Limit [nW/MHz] | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| NTNV | DH5 | Ant1 | 2402 | 1757.84 | -81.18 | ≤-47 | 0.00762 | ≤20 | PASS |
| | | | 2441 | 3499.12 | -79.83 | ≤-47 | 0.01040 | ≤20 | PASS |



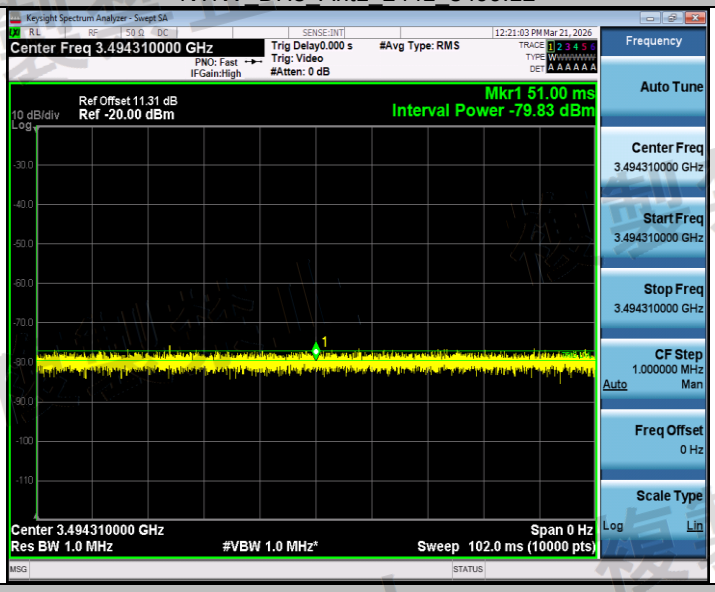

NTNV_DH5_Ant1_2402_1757.84




NTNV_DH5_Ant1_2402_1757.84




NTNV_DH5_Ant1_2441_3499.12



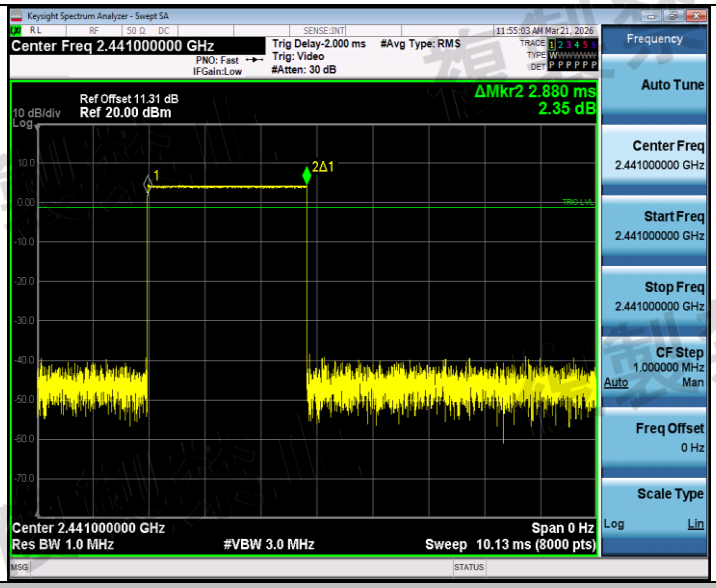

NTNV_DH5_Ant1_2441_3499.12

# Appendix G: Dwell Time

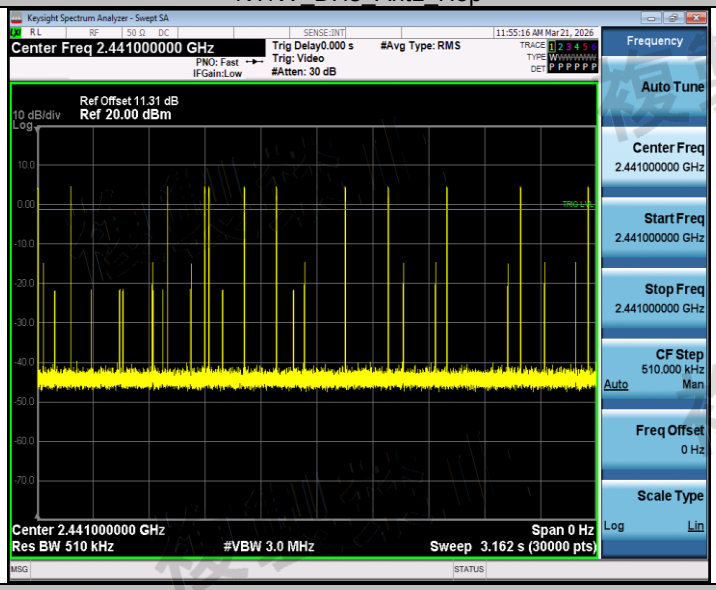
## Test Result

| Test Condition | Test Mode | Antenna | Freq(MHz) | BurstWidth [ms] | TotalHops [Num] | Result[s] | Limit [s] | Verdict |
|---|---|---|---|---|---|---|---|---|
| NTNV | DH5 | Ant1 | Hop | 2.88 | 120 | 0.346 | ≤0.4 | PASS |
| | 2DH5 | Ant1 | Hop | 2.89 | 70 | 0.202 | ≤0.4 | PASS |
| | 3DH5 | Ant1 | Hop | 2.89 | 90 | 0.26 | ≤0.4 | PASS |

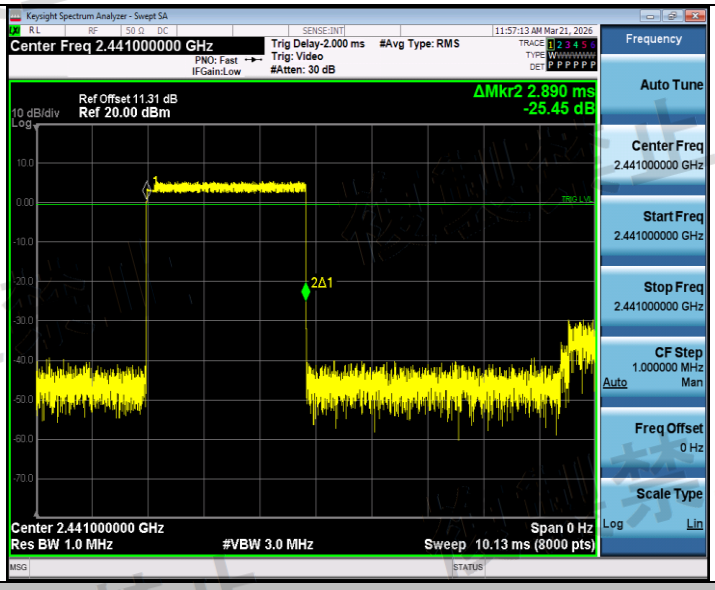
Note:
1. Total hop num=10* hop num
2. Dwell Time= BurstWidth* TotalHops



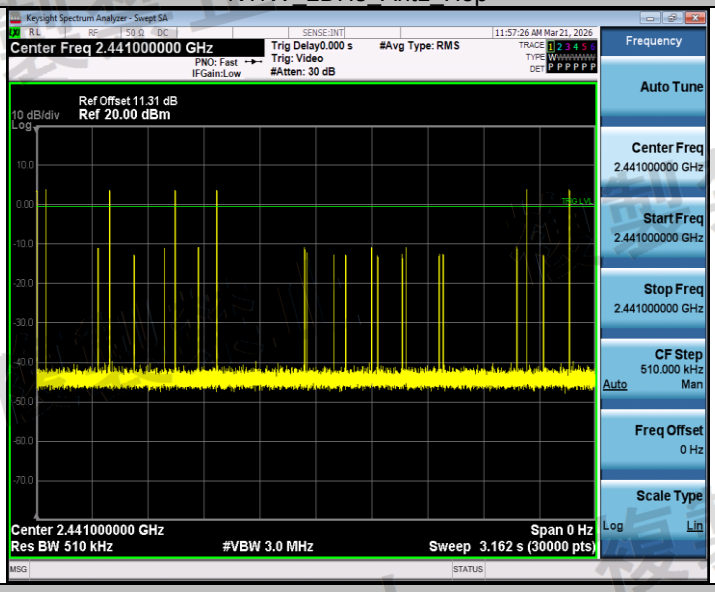

NTNV_DH5_Ant1_Hop




NTNV_DH5_Ant1_Hop

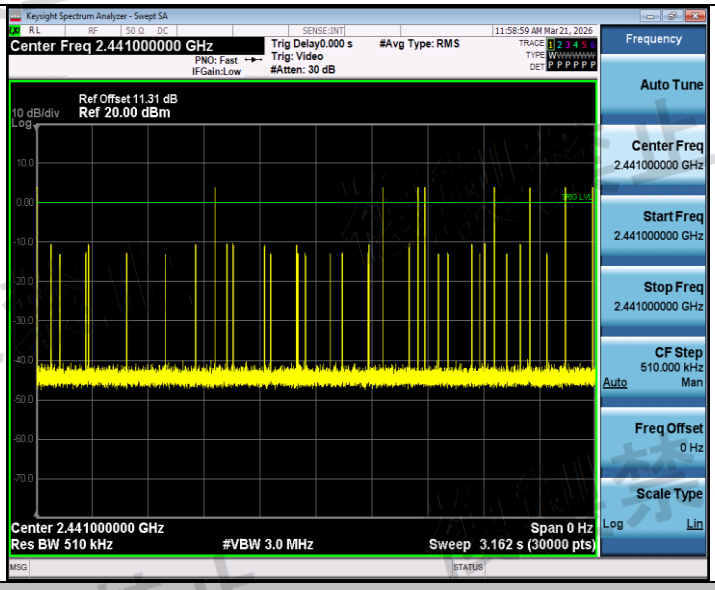



NTNV_2DH5_Ant1_Hop




NTNV_2DH5_Ant1_Hop

NTNV_3DH5_Ant1_Hop




NTNV_3DH5_Ant1_Hop

## 4. PHOTOS

1. Appendix I Test photo
2. Appendix II Exterior photo
3. Appendix II Interior photo

**--- END ---**