# RADIO TEST REPORT

| | | |
|---|---|---|
| Applicant | : | Guangzhou FiiO Electronics Technology Co., Ltd. |
| Address of Applicant | : | No.21, Longliang Road, Xialiang Village, Longgui Street, Baiyun District, Guangzhou, Guangdong, P.R. China |
| Manufacturer | : | Guangzhou FiiO Electronics Technology Co., Ltd. |
| Address of Manufacturer | : | No.21, Longliang Road, Xialiang Village, Longgui Street, Baiyun District, Guangzhou, Guangdong, P.R. China |
| Equipment under Test | : | True Wireless Bluetooth Headphone Amplifier |
| Model No. | : | F5151U-E, F2501U-E, F2502U-E, F2503U-E, F2504U-E, F2505U-E, F2506U-E, F2507U-E, F2508U-E, F2509U-E, F2500U-E |
| Test Standard(s) | : | Item 19 of Article 2 Paragraph 1, MIC Notification 88, ANNEX 43. |
| Report No. | : | DDT-RE26031117-1E02 |
| Issue Date | : | 2026/06/25 |
| Issued By | : | Guangdong Dongdian Testing Service Co., Ltd.<br>Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808 |

REPORT

# Table of Contents


1. Summary of Test Results ..... 6
2. General Test Information ..... 7
2.1. Description of EUT ..... 7
2.2. Accessories of EUT ..... 8
2.3. Block diagram of EUT configuration for test ..... 8
2.4. Decision of final test mode ..... 8
2.5. Deviations of test standard ..... 9
2.6. Test environment conditions ..... 9
2.7. Test laboratory ..... 10
2.8. Measurement uncertainty ..... 11
3. Equipment Used During Test ..... 12
4. Frequency Tolerance ..... 13
4.1. Limit ..... 13
4.2. Block diagram of test setup ..... 13
4.3. Test procedure ..... 13
4.4. Test result ..... 14
4.5. Test graphs ..... 15
5. Antenna Power and Tolerances for Antenna Power ..... 19
5.1. Limit ..... 19
5.2. Block diagram of test setup ..... 19
5.3. Test procedure ..... 19
5.4. Test result ..... 20
5.5. Test graphs ..... 21
6. Occupied Frequency Bandwidth ..... 25
6.1. Limit ..... 25
6.2. Block diagram of test setup ..... 25
6.3. Test procedure ..... 25
6.4. Test result ..... 26
6.5. Test graphs ..... 27
7. Transmitter Spurious Emissions ..... 31
7.1. Limit ..... 31
7.2. Block diagram of test setup ..... 31
7.3. Test procedure ..... 31
7.4. Test result ..... 32
7.5. Test graphs ..... 33
8. Secondary Radiated Emissions ..... 49

8.1. Limit ..... 49
8.2. Block diagram of test setup ..... 49
8.3. Test procedure ..... 49
8.4. Test result ..... 50
8.5. Test graphs ..... 51
9. Interference Prevention Function ..... 59
9.1. Measurement system diagram ..... 59
9.2. Measuring operation procedure ..... 59
9.3. Test result: The unit does meet the requirements. ..... 59
10. Test Setup Photograph ..... 60
11. Photos of the EUT ..... 61

# Test Report Declare

| | | |
|---|---|---|
| **Applicant** | : | Guangzhou FiiO Electronics Technology Co., Ltd. |
| **Address of Applicant** | : | No.21, Longliang Road, Xialiang Village, Longgui Street, Baiyun District, Guangzhou, Guangdong, P.R. China |
| **Equipment under Test** | : | True Wireless Bluetooth Headphone Amplifier |
| **Model No.** | : | F5151U-E, F2501U-E, F2502U-E, F2503U-E, F2504U-E, F2505U-E, F2506U-E, F2507U-E, F2508U-E, F2509U-E, F2500U-E |
| **Manufacturer** | : | Guangzhou FiiO Electronics Technology Co., Ltd. |
| **Address of Manufacturer** | : | No.21, Longliang Road, Xialiang Village, Longgui Street, Baiyun District, Guangzhou, Guangdong, P.R. China |

**Test Standard Used:**

Item 19 of Article 2 Paragraph 1, MIC Notification 88, ANNEX 43.

**We Declare:**

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

| | | | |
|---|---|---|---|
| **Report No.:** | DDT-RE26031117-1E02 | | |
| **Date of Receipt:** | 2026/01/04 | **Date of Test:** | 2026/01/04 - 2026/05/08 |

| Created: Chen Ziqin | Reviewed: Bobo Chen | Approved: Ella Gong |
|---|---|---|
| Chen Ziqin | Bobo Chen | GUANGDONG DONGDIAN TESTING SERVICE CO.,LTD. 广东东电检测技术有限公司 Ella Gong Certificate and Report Seal 检验检测专用章 |
| 2026/04/30 | 2026/06/25 | 2026/06/25 |

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

# Revision History

| Version | Revision Content | Issue Date | Approved |
|---|---|---|---|
| V0 | Initial issue | 2026/06/25 | Ella Gong |
| | | | |

# 1. Summary of Test Results

| No. | Test Parameter | Clause No. | Condition | Result |
|---|---|---|---|---|
| 1 | Frequency Tolerance | Article 5, Annex 1.table 7-8 | Apply all equipment | Pass |
| 2 | Antenna Power | Article 49-20 | Apply all equipment | Pass |
| 3 | Antenna Power Tolerance | Article 14. table 8 | Apply all equipment | Pass |
| 4 | Spreading Bandwidth | Just for report | Just for report | N/A |
| 5 | Occupied Bandwidth | Article 6, Annex 2.30 | Apply all equipment | Pass |
| 6 | Dwell Time | Article 49-20 | Only for Apply FHSS | N/A |
| 7 | Spurious Emissions | Article 7, Annex 3.26 | Apply all equipment | Pass |
| 8 | E.I.R.P. | Article 49-20 | Limit is variable by the H.P.B.A | N/A |
| 9 | Secondary Radiated Emissions | Article 24.2 | Apply all equipment | Pass |
| 10 | Transmitting Antenna Absolute Gain | Article 49-20 | When an E.I.R.P. is less than the limit, the shortage can be compensated for by the gain of the transmitting antenna | N/A |
| 11 | Half Power Beam Angle | Article 49-20 | It is unnecessary to testing, when a E.I.R.P is less than the variable E.R.P limit of minimum. | N/A |
| 12 | Carrier Sense | Article 49-20 | When the E.I.R.P. shortage is compensated by the antenna power, the transmitter shall have a carrier sensing function. | N/A |
| 13 | Interference Prevention Function | Article 9-4.5, Article 6-2.3, Article 6-2.5 | Apply all equipment | Pass |
| Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard. | | | | |

# 2. General Test Information

## 2.1. Description of EUT

| | | |
|---|---|---|
| EUT Name | : | True Wireless Bluetooth Headphone Amplifier |
| Model Number | : | F5151U-E, F2501U-E, F2502U-E, F2503U-E, F2504U-E, F2505U-E, F2506U-E, F2507U-E, F2508U-E, F2509U-E, F2500U-E |
| Difference of model number | : | Above models are identical in schematic and structure, only the model number are different, therefore the test performed on the model F5151U-E |
| EUT Function Description | : | Please reference user manual of this device |
| Power Supply | : | DC 5V from external charging case or DC 3.7V built-in battery |
| Hardware Version | : | M01 |
| Software Version | : | V0.35 |
| Antenna Type | : | FPC Antenna |
| Max Antenna Gain(dBi) | : | L: -2.73<br>R: -5.43 |

| | | |
|---|---|---|
| Radio Specification | : | Bluetooth LE |
| Operation Frequency | : | 2402 MHz to 2480 MHz |
| Modulation | : | GFSK |

| Bluetooth LE 1Mbps Channel information | | | | | |
|---|---|---|---|---|---|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 0 | 2402 | 14 | 2430 | 28 | 2458 |
| 1 | 2404 | 15 | 2432 | 29 | 2460 |
| 2 | 2406 | 16 | 2434 | 30 | 2462 |
| 3 | 2408 | 17 | 2436 | 31 | 2464 |
| 4 | 2410 | 18 | 2438 | 32 | 2466 |
| 5 | 2412 | 19 | 2440 | 33 | 2468 |
| 6 | 2414 | 20 | 2442 | 34 | 2470 |
| 7 | 2416 | 21 | 2444 | 35 | 2472 |
| 8 | 2418 | 22 | 2446 | 36 | 2474 |
| 9 | 2420 | 23 | 2448 | 37 | 2476 |
| 10 | 2422 | 24 | 2450 | 38 | 2478 |
| 11 | 2424 | 25 | 2452 | 39 | 2480 |
| 12 | 2426 | 26 | 2454 | | |
| 13 | 2428 | 27 | 2456 | | |
| Bluetooth LE 2Mbps Channel information | | | | | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 0 | 2402 | 14 | 2430 | 28 | 2458 |
| 1 | 2404 | 15 | 2432 | 29 | 2460 |

| | | | | | |
|---|---|---|---|---|---|
| 2 | 2406 | 16 | 2434 | 30 | 2462 |
| 3 | 2408 | 17 | 2436 | 31 | 2464 |
| 4 | 2410 | 18 | 2438 | 32 | 2466 |
| 5 | 2412 | 19 | 2440 | 33 | 2468 |
| 6 | 2414 | 20 | 2442 | 34 | 2470 |
| 7 | 2416 | 21 | 2444 | 35 | 2472 |
| 8 | 2418 | 22 | 2446 | 36 | 2474 |
| 9 | 2420 | 23 | 2448 | 37 | 2476 |
| 10 | 2422 | 24 | 2450 | 38 | 2478 |
| 11 | 2424 | 25 | 2452 | 39 | 2480 |
| 12 | 2426 | 26 | 2454 | / | |
| 13 | 2428 | 27 | 2456 | / | |
| The channels denoted with the grey background are excluded, because they are primary advertising channel only for the Bluetooth LE 1Mbps according to the Bluetooth Core Specification. | | | | | |

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

"☒" means to be chosen or applicable; "□" means don't to be chosen or not applicable; This note applies to entire report.

## 2.2. Accessories of EUT

| Accessories | Manufacturer | Model number | Description |
|---|---|---|---|
| / | / | / | / |

## 2.3. Block diagram of EUT configuration for test




## 2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:
Test software: Blue Test.exe
The test software was used to control EUT work
in Continuous Tx mode and Rx mode, and select test channel, wireless mode as below table.
The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

| Tested mode, Tx Power Setting, Channel, and Frequency | | | |
|---|---|---|---|
| Mode | Setting Tx Power | Channel | Frequency (MHz) |
| Tx mode_1M | Default | CH0 | 2402 |
| | Default | CH19 | 2440 |
| | Default | CH39 | 2480 |
| Tx mode_2M | Default | CH1 | 2404 |
| | Default | CH19 | 2440 |
| | Default | CH38 | 2478 |
| Rx mode_1M | / | CH0 | 2402 |
| | / | CH19 | 2440 |
| | / | CH39 | 2480 |
| Rx mode_2M | / | CH1 | 2404 |
| | / | CH19 | 2440 |
| | / | CH38 | 2478 |

Note: Ant1 is for the left ear, and Ant2 is for the right ear.

## 2.5. Deviations of test standard

No deviation.

## 2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

| / | Normal Conditions |
|---|---|
| Temperature range | 23 ℃ |
| Humidity range | 46% |
| Power supply | DC 3.70V<br>(When the input voltage to equipment fluctuated ±10%, the RF unit circuit voltage fluctuation under 1%, therefore all test performed on the rated voltage for equipment.) |

| The measurement result of the voltage fluctuation at RF circuit when DC 3.70V +/- 10%. | |
|---|---|
| Input voltage | RF module voltage |
| DC 4.07V | DC 3.30V |
| DC 3.70V | DC 3.30V |
| DC 3.33V | DC 3.30V |

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

## 2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

## 2.8. Measurement uncertainty

| Test Item | Uncertainty |
|---|---|
| Bandwidth | 1.1% |
| Peak Output Power (Conducted) (Spectrum analyzer) | 0.86 dB (10 MHz ≤ f < 3.6 GHz); |
| | 1.38 dB (3.6 GHz ≤ f < 8 GHz) |
| Peak Output Power (Conducted) (Power Sensor) | 0.74 dB |
| Power Spectral Density | 0.74 dB (10 MHz ≤ f < 3.6 GHz); |
| | 1.38 dB (3.6 GHz ≤ f < 8 GHz) |
| Frequencies Stability | $6.7 \times 10^{-8}$ (Antenna couple method) |
| | $5.5 \times 10^{-8}$ (Conducted method) |
| Conducted spurious emissions | 0.86 dB (10 MHz ≤ f < 3.6 GHz); |
| | 1.40 dB (3.6 GHz ≤ f < 8 GHz) |
| | 1.66 dB (8 GHz ≤ f < 26.5 GHz) |
| Uncertainty for radio frequency (RBW < 20 kHz) | $3 \times 10^{-8}$ |
| Temperature | 0.4 ℃ |
| Humidity | 2 % |
| Uncertainty for Radiation Emission test (9 kHz – 30 MHz) | 3.44 dB |
| Uncertainty for Radiation Emission test (30 MHz - 1 GHz) | 4.70 dB (Antenna Polarize: V) |
| | 4.84 dB (Antenna Polarize: H) |
| Uncertainty for Radiation Emission test (1 GHz - 40 GHz) | 4.10 dB (1 - 6 GHz) |
| | 4.40 dB (6 GHz - 18 GHz) |
| | 3.54 dB (18 GHz - 26 GHz) |
| | 4.30 dB (26 GHz - 40 GHz) |
| Uncertainty for Power line conduction emission test | 3.34dB (150KHz-30MHz) |
| | 3.72dB (9KHz-150KHz) |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. | |

## 3. Equipment Used During Test

| Equipment | Manufacturer | Model No. | Serial Number | Due Date |
|---|---|---|---|---|
| ☒RF Connected Test (RF Measurement System 4#) | | | | |
| Signal &Spectrum Analyzer | R&S | FSV3044 | 101173 | 2027/02/28 |
| Wideband Radio Communication Tester | R&S | CMW500 | 168801 | 2027/02/28 |
| MXG Vector Signal Generator | Agilent | N5182A | MY48180737 | 2026/08/28 |
| PSG Vector Signal Generator | Agilent | E8267D | US49060192 | 2026/08/10 |
| RF Control Unit | Tonscend | JS0806-2 | 21I8060485 | 2027/02/28 |
| TEMP&HUMI Programmable Chamber | ZHIXIANG | ZXGDJS-150L | ZX170110-A | 2026/08/12 |
| Test Software | Tonscend | JS1120-3 | V3.6.21 | N/A |

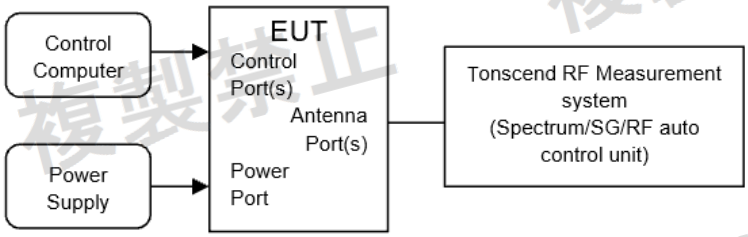
Remark:
(a) Calibration conducted by the National institute of information and Communications Technology (NICT)in Japan (hereinafter referred to as "NICT") or a designated calbration agency under Article 102-18 paragraph (1) in JRL.
(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).
(c) Calilbration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
(d) Calibration, etc, conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calbration, etc. listed above from (a) to (c)

# 4. Frequency Tolerance

## 4.1. Limit

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

## 4.2. Block diagram of test setup




## 4.3. Test procedure

(1) Set EUT work in carrier Tx mode.

(2) 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: 1 MHz.
Detector: Peak.
Trace Mode: Max Hold.

(3) When the trace is complete, find the peak value of the power envelope and record the frequency.

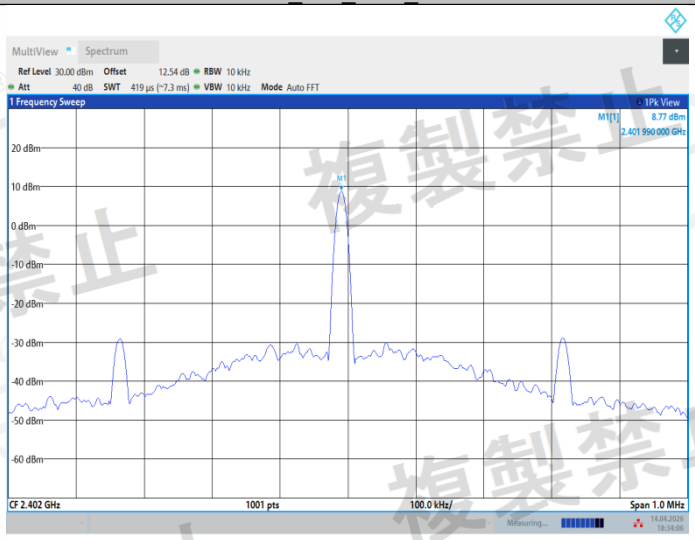
## 4.4. Test result

| | | | |
|---|---|---|---|
| Test Engineer: | Huang Yanwen | Test Site: | RF Measurement system 4# |
| Ambient Condition: | 25.3℃,46.2%RH | Test Date: | 2026.04.14-2026.04.14 |
| Test Power Supply: | DC 3.7V | Sample Number: | S25103113-004 |

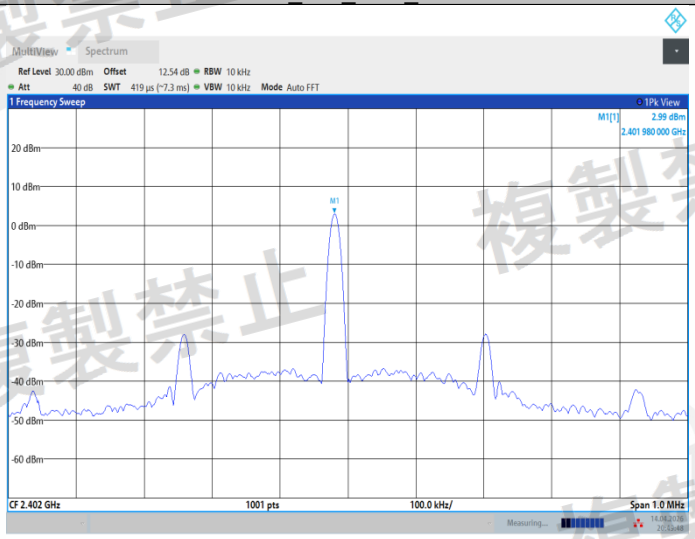
| TestCondition | TestMode | Antenna | Frequency[MHz] | CenterFreq [MHz] | Result[ppm] | Limit[ppm] | Verdict |
|---|---|---|---|---|---|---|---|
| NTNV | CW | Ant1 | 2402 | 2401.99 | -4.16320 | ±50 | PASS |
| | | Ant2 | 2402 | 2401.98 | -8.32640 | ±50 | PASS |
| | | Ant1 | 2440 | 2439.989 | -4.50820 | ±50 | PASS |
| | | Ant2 | 2440 | 2439.98 | -8.19672 | ±50 | PASS |
| | | Ant1 | 2480 | 2479.989 | -4.43548 | ±50 | PASS |
| | | Ant2 | 2480 | 2479.979 | -8.46774 | ±50 | PASS |
| | CW | Ant1 | 2404 | 2403.989 | -4.57571 | ±50 | PASS |
| | | Ant2 | 2404 | 2403.98 | -8.31947 | ±50 | PASS |
| | | Ant1 | 2440 | 2439.989 | -4.50820 | ±50 | PASS |
| | | Ant2 | 2440 | 2439.98 | -8.19672 | ±50 | PASS |
| | | Ant1 | 2478 | 2477.988 | -4.84262 | ±50 | PASS |
| | | Ant2 | 2478 | 2477.979 | -8.47458 | ±50 | PASS |

## 4.5. Test graphs

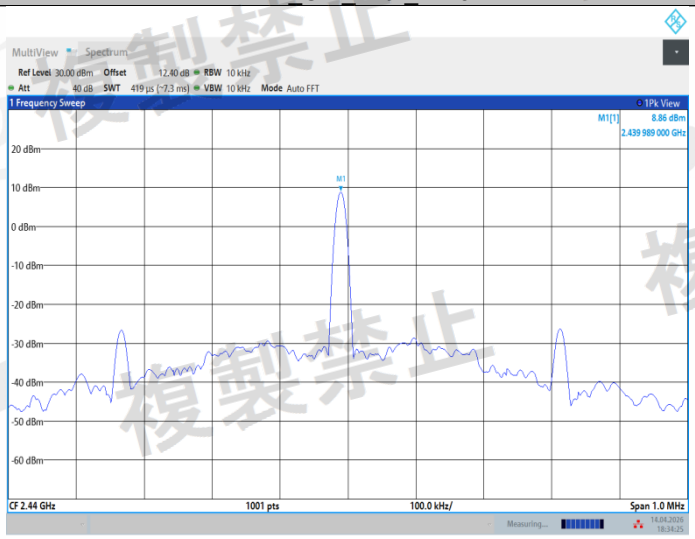
NTNV_CW_Ant1_2402



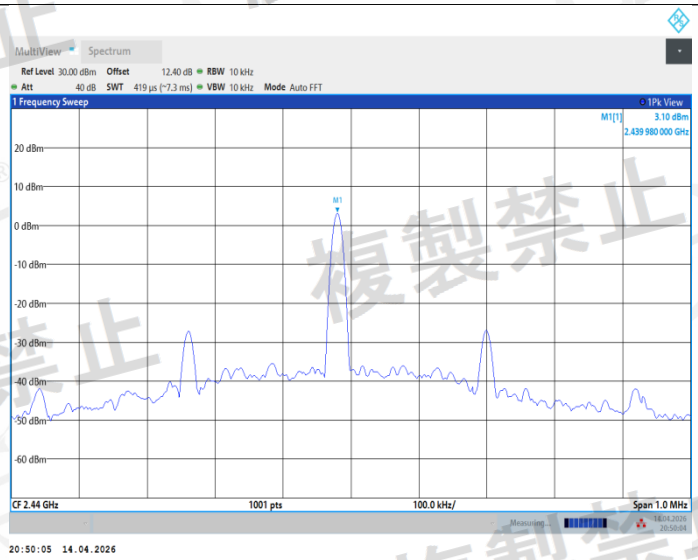

NTNV_CW_Ant2_2402



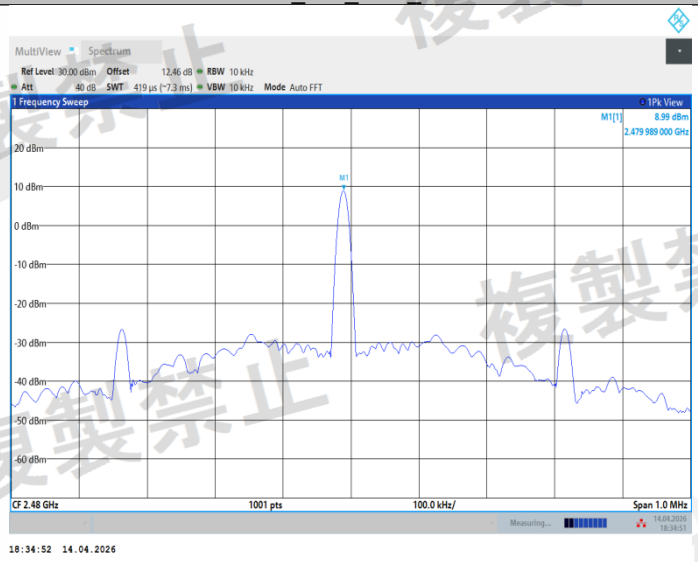

NTNV_CW_Ant1_2440



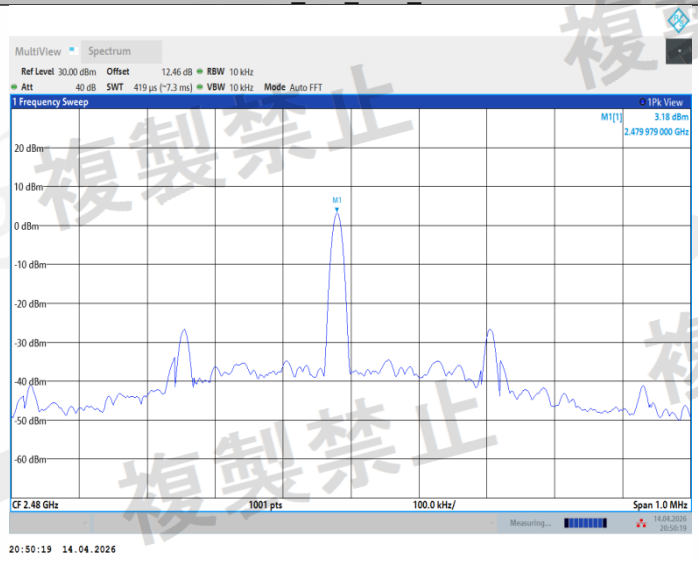

NTNV_CW_Ant2_2440



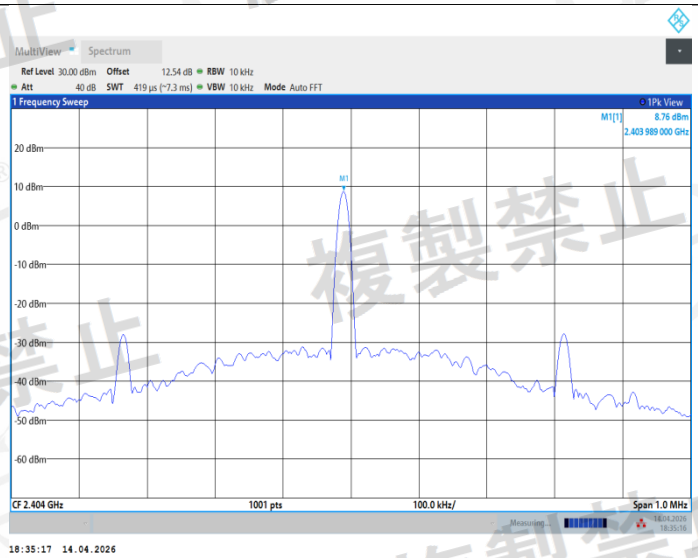

NTNV_CW_Ant1_2480



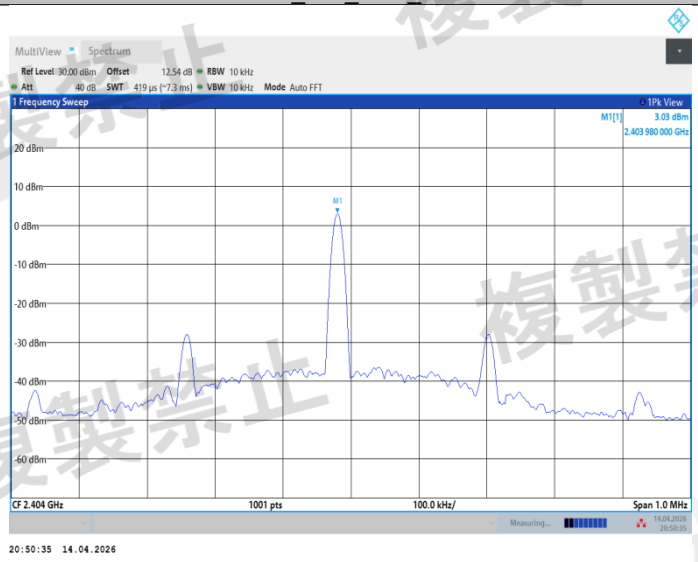

NTNV_CW_Ant2_2480



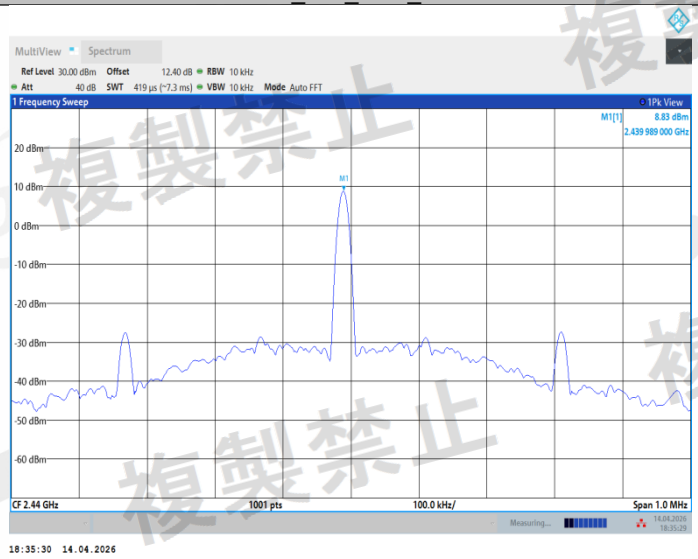

NTNV_CW_Ant1_2404



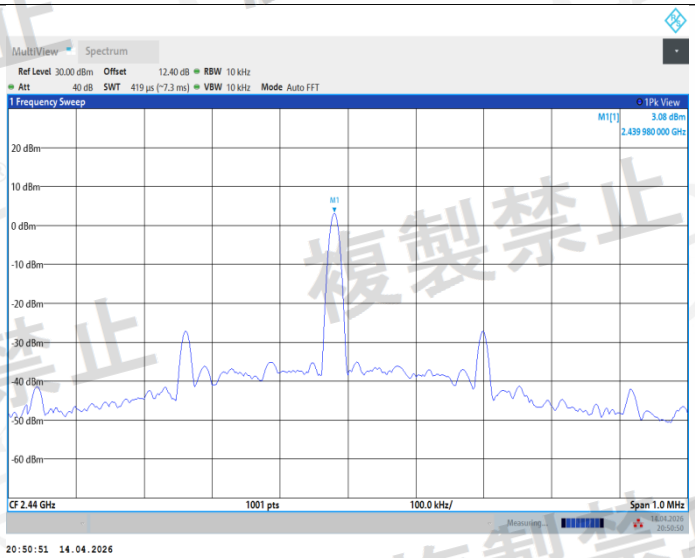

NTNV_CW_Ant2_2404



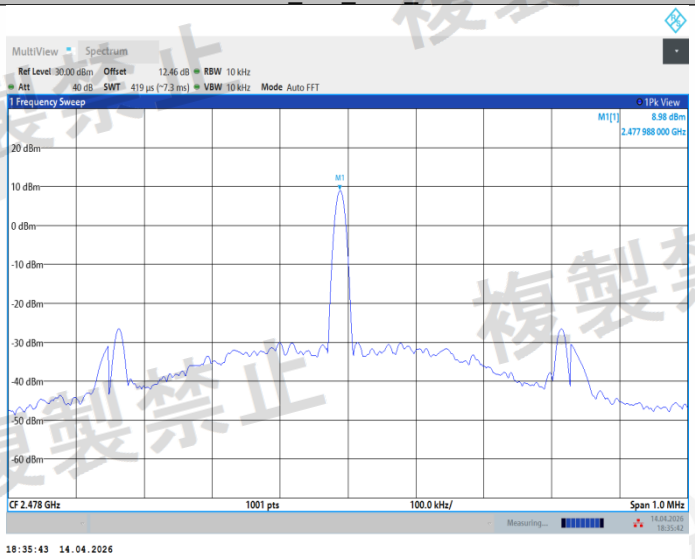

NTNV_CW_Ant1_2440



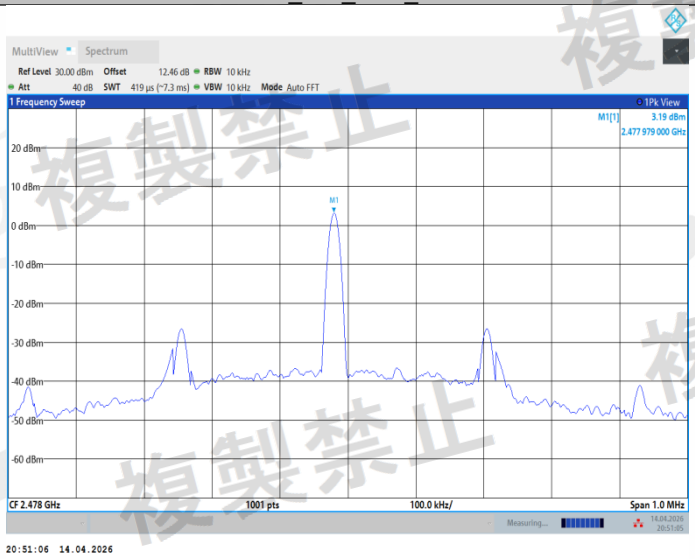

NTNV_CW_Ant2_2440




NTNV_CW_Ant1_2478




NTNV_CW_Ant2_2478

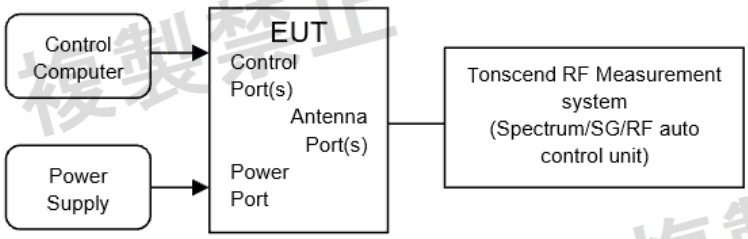


# 5. Antenna Power and Tolerances for Antenna Power

## 5.1. Limit

| | |
|---|---|
| Antenna Power Limit | 10mW (10dBm) |
| Tolerance Limit | ≤+20 |

## 5.2. Block diagram of test setup




## 5.3. Test procedure

(1) Connect each EUT's antenna output to power sensor by RF cable and attenuator and measure the total power.

(2) Antenna power is as follows:

a) Continuous wave: Value of step (1).

b) Burst wave: Calculate the average power Value from the value of step (1) and Burst Ratio.

Note: The cable loss and attenuator loss have been taken into account.

## 5.4. Test result

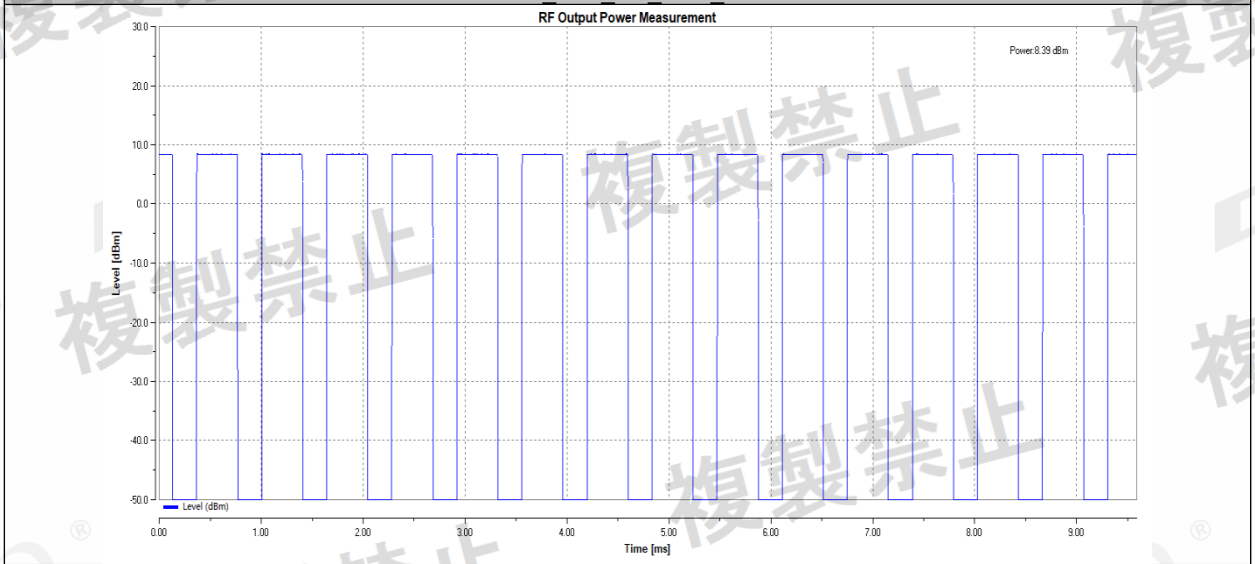
| | | | |
|---|---|---|---|
| Test Engineer: | Huang Yanwen | Test Site: | RF Measurement system 4# |
| Ambient Condition: | 25.3℃,46.2%RH | Test Date: | 2026.04.14-2026.04.14 |
| Test Power Supply: | DC 3.7V | Sample Number: | S25103113-004 |

| Antenna Power | | | | | | | |
|---|---|---|---|---|---|---|---|
| Test Condition | Test Mode | Antenna | Frequency[MHz] | Result(dBm) | Result(mW) | Limit(mW) | Verdict |
| NTNV | BLE_1M | Ant1 | 2402 | 8.39 | 6.90 | ≤10 | PASS |
| | | | 2440 | 8.32 | 6.79 | ≤10 | PASS |
| | | | 2480 | 8.46 | 7.01 | ≤10 | PASS |
| NTNV | BLE_1M | Ant2 | 2402 | 8.38 | 6.89 | ≤10 | PASS |
| | | | 2440 | 8.46 | 7.01 | ≤10 | PASS |
| | | | 2480 | 8.37 | 6.87 | ≤10 | PASS |
| NTNV | BLE_2M | Ant1 | 2404 | 8.41 | 6.93 | ≤10 | PASS |
| | | | 2440 | 8.42 | 6.95 | ≤10 | PASS |
| | | | 2478 | 8.47 | 7.03 | ≤10 | PASS |
| NTNV | BLE_2M | Ant2 | 2404 | 8.49 | 7.06 | ≤10 | PASS |
| | | | 2440 | 8.46 | 7.01 | ≤10 | PASS |
| | | | 2478 | 8.46 | 7.01 | ≤10 | PASS |

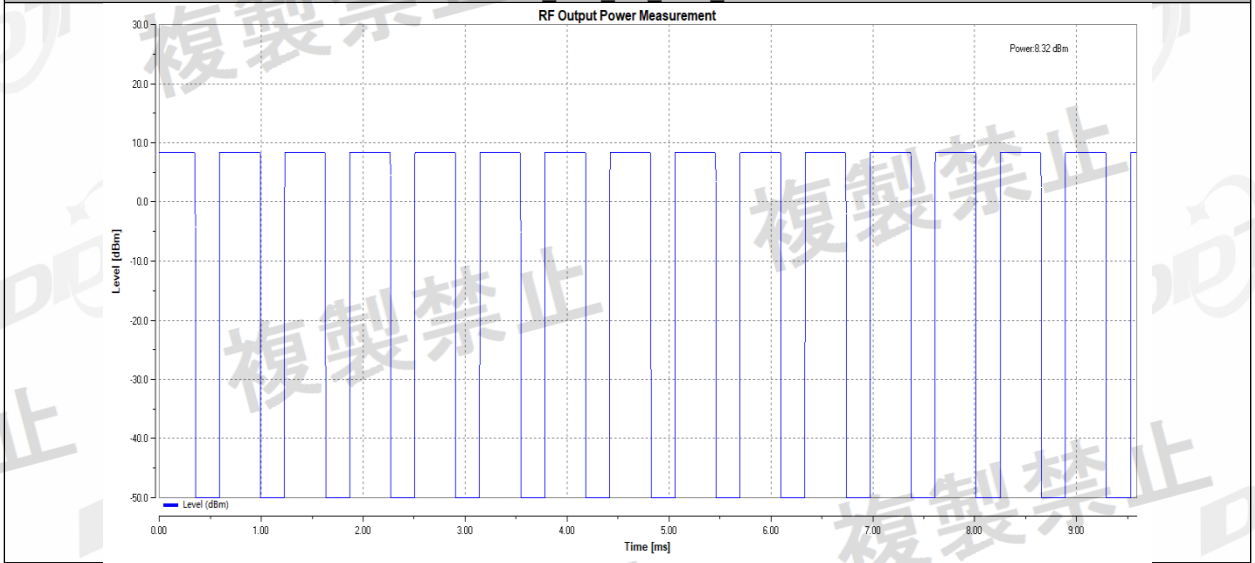
| Tolerance | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Test Condition | Test Mode | Antenna | Frequency[MHz] | Power (mW) | Rated Power (mW) | Result (%) | Limit (%) | Verdict |
| NTNV | BLE_1M | Ant1 | 2402 | 6.90 | 9 | -23.31 | ≤+20 | PASS |
| | | | 2440 | 6.79 | 9 | -24.53 | ≤+20 | PASS |
| | | | 2480 | 7.01 | 9 | -22.06 | ≤+20 | PASS |
| NTNV | BLE_1M | Ant2 | 2402 | 6.89 | 9 | -23.48 | ≤+20 | PASS |
| | | | 2440 | 7.01 | 9 | -22.06 | ≤+20 | PASS |
| | | | 2480 | 6.87 | 9 | -23.66 | ≤+20 | PASS |
| NTNV | BLE_2M | Ant1 | 2404 | 6.93 | 9 | -22.95 | ≤+20 | PASS |
| | | | 2440 | 6.95 | 9 | -22.78 | ≤+20 | PASS |
| | | | 2478 | 7.03 | 9 | -21.88 | ≤+20 | PASS |
| NTNV | BLE_2M | Ant2 | 2404 | 7.06 | 9 | -21.52 | ≤+20 | PASS |
| | | | 2440 | 7.01 | 9 | -22.06 | ≤+20 | PASS |
| | | | 2478 | 7.01 | 9 | -22.06 | ≤+20 | PASS |

## 5.5. Test graphs

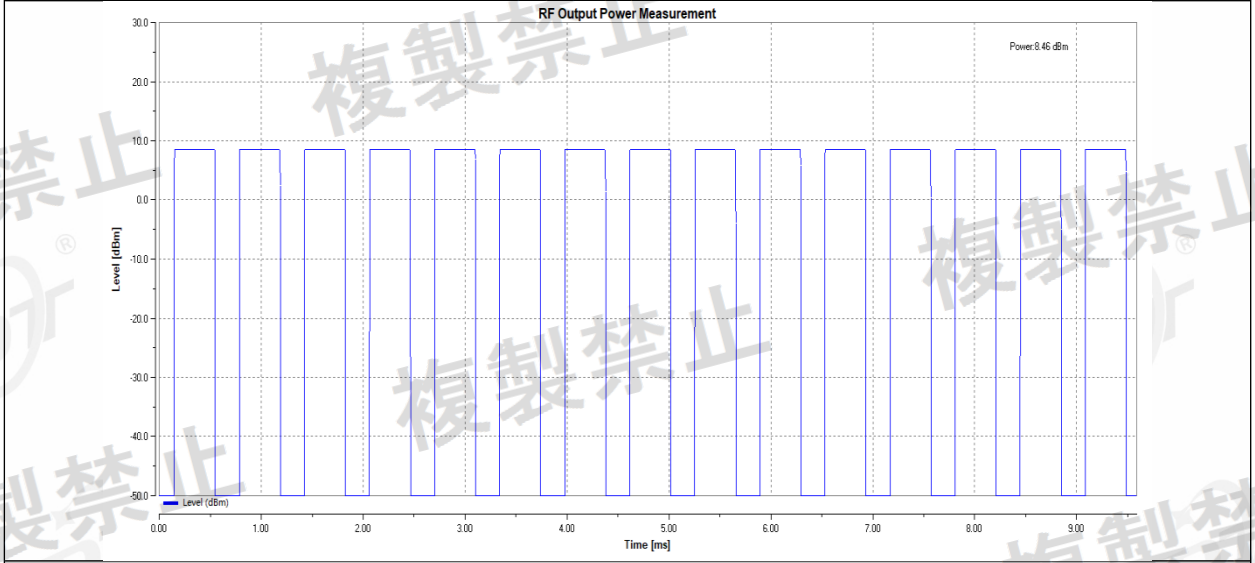
NTNV_BLE_1M_Ant1_2402



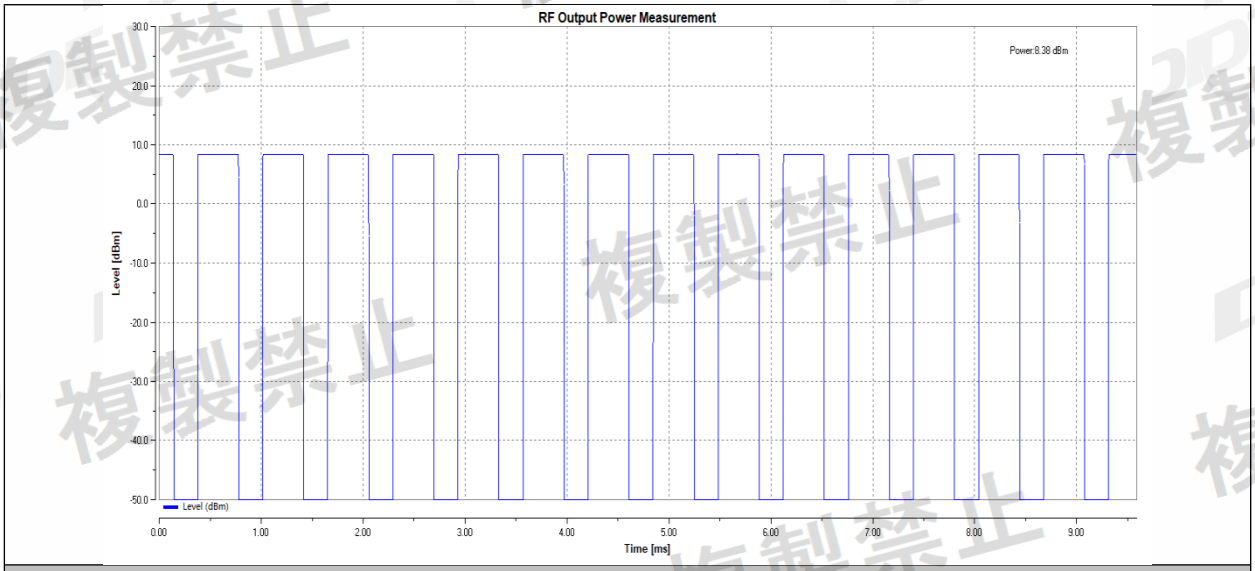

NTNV_BLE_1M_Ant2_2402



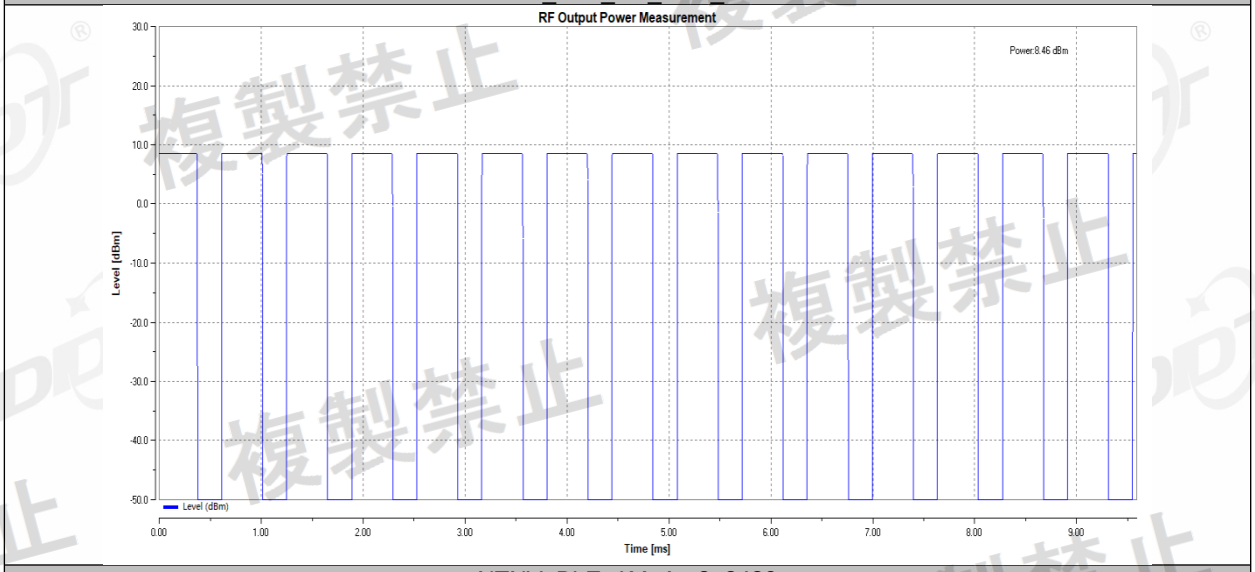

NTNV_BLE_1M_Ant1_2440



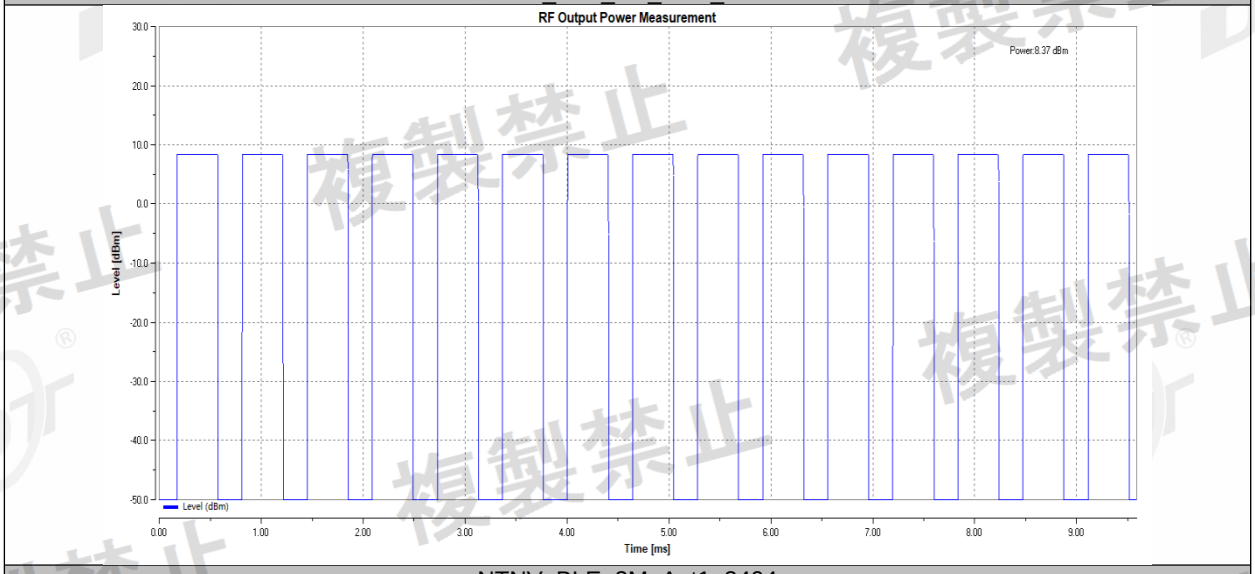

NTNV_BLE_1M_Ant2_2440



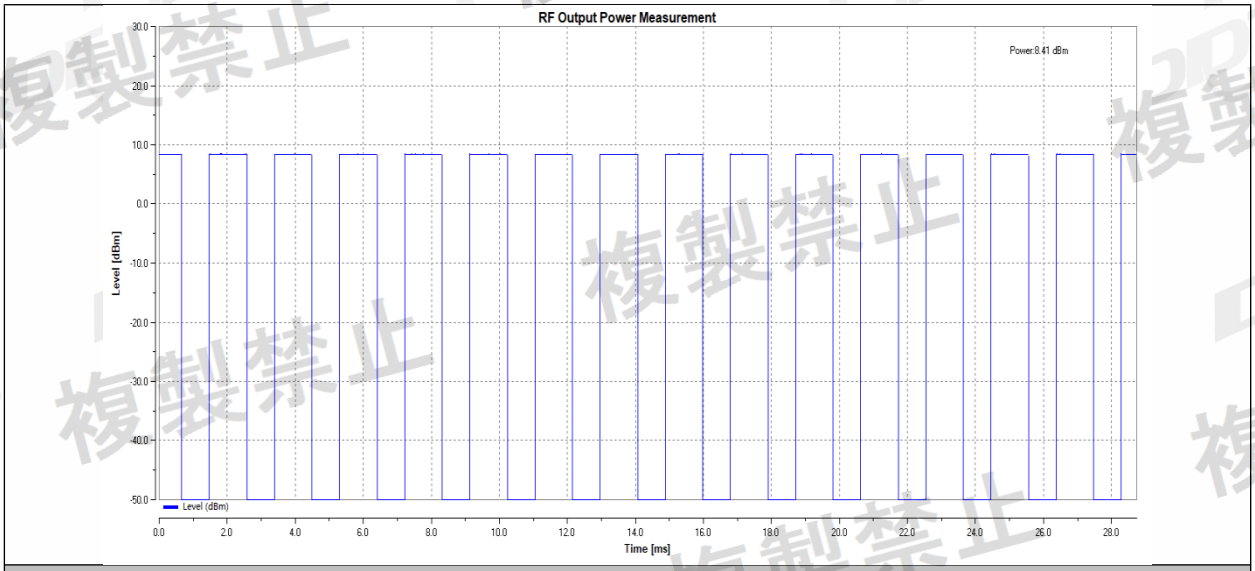

NTNV_BLE_1M_Ant1_2480



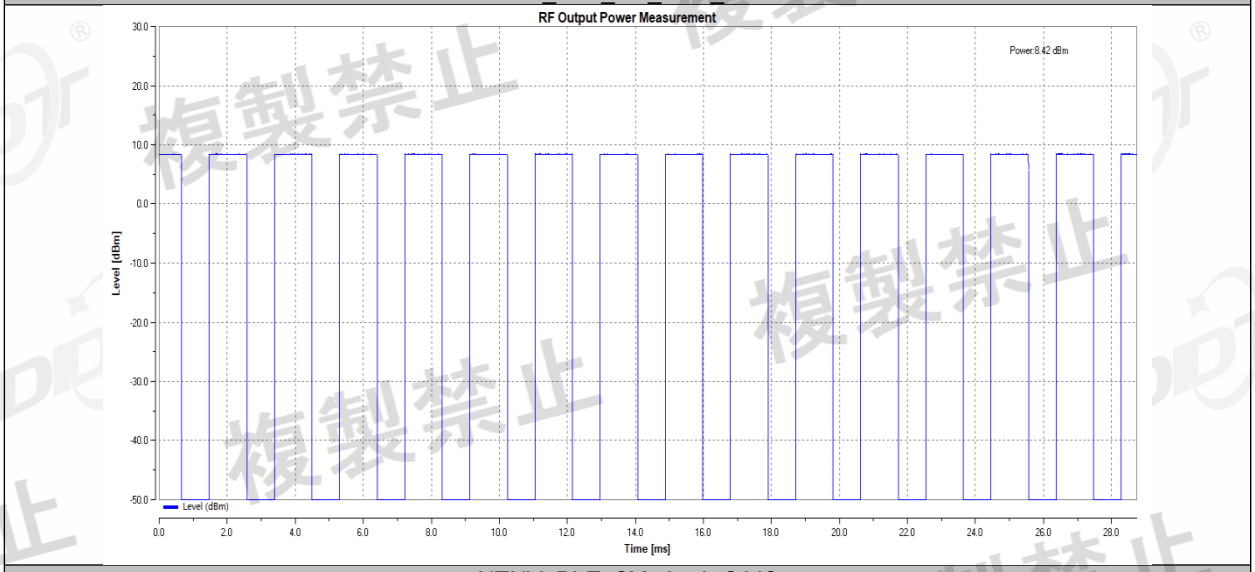

NTNV_BLE_1M_Ant2_2480



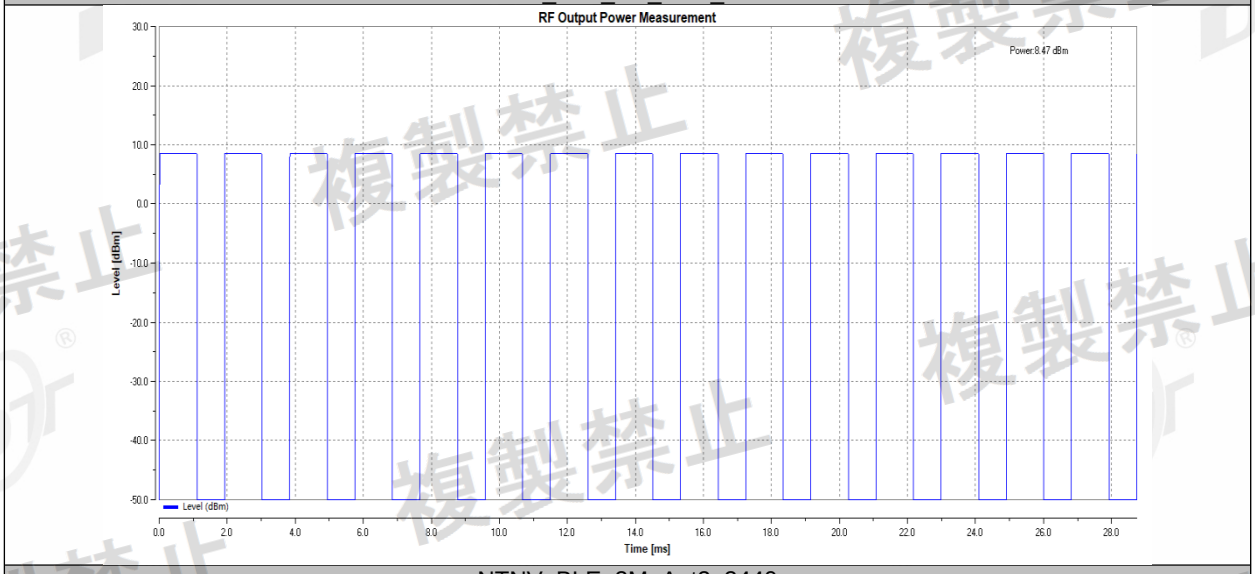

NTNV_BLE_2M_Ant1_2404



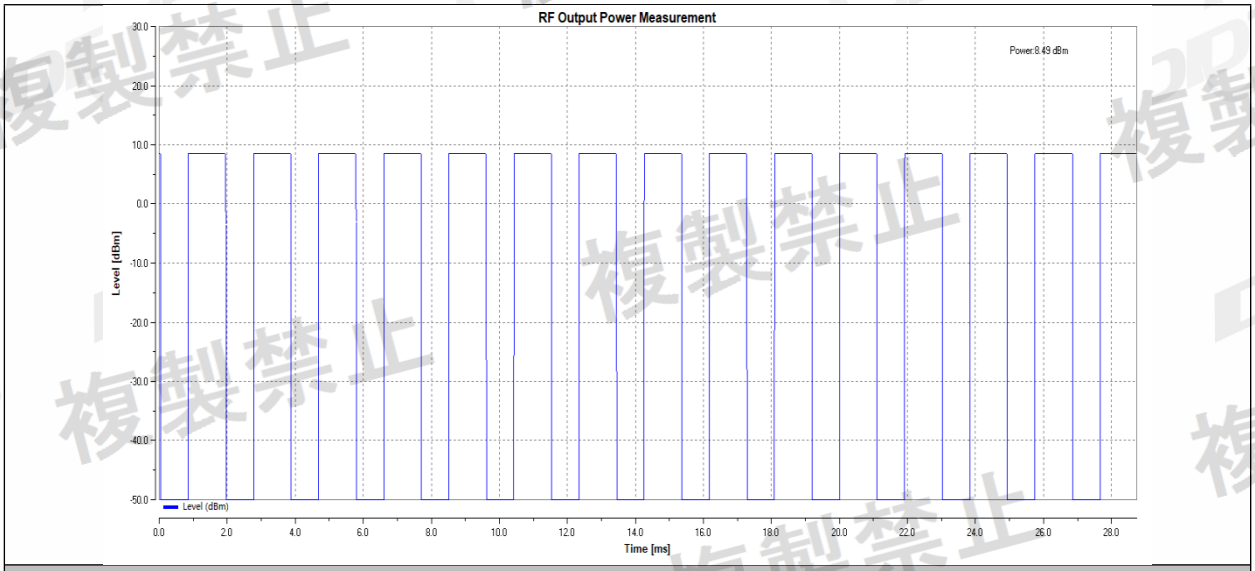

NTNV_BLE_2M_Ant2_2404



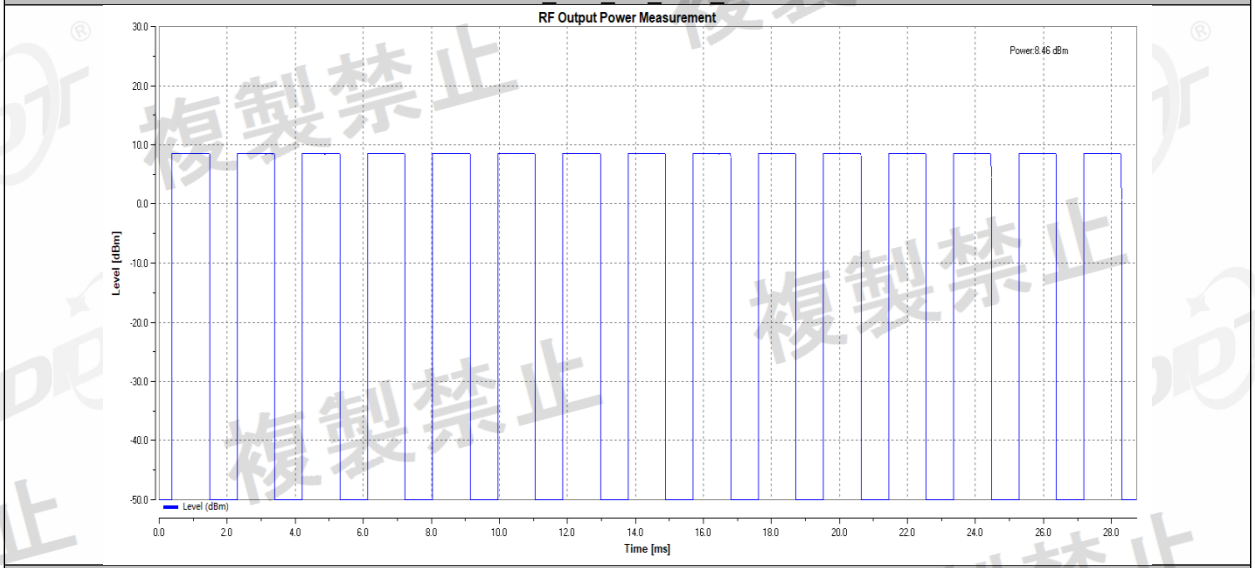

NTNV_BLE_2M_Ant1_2440



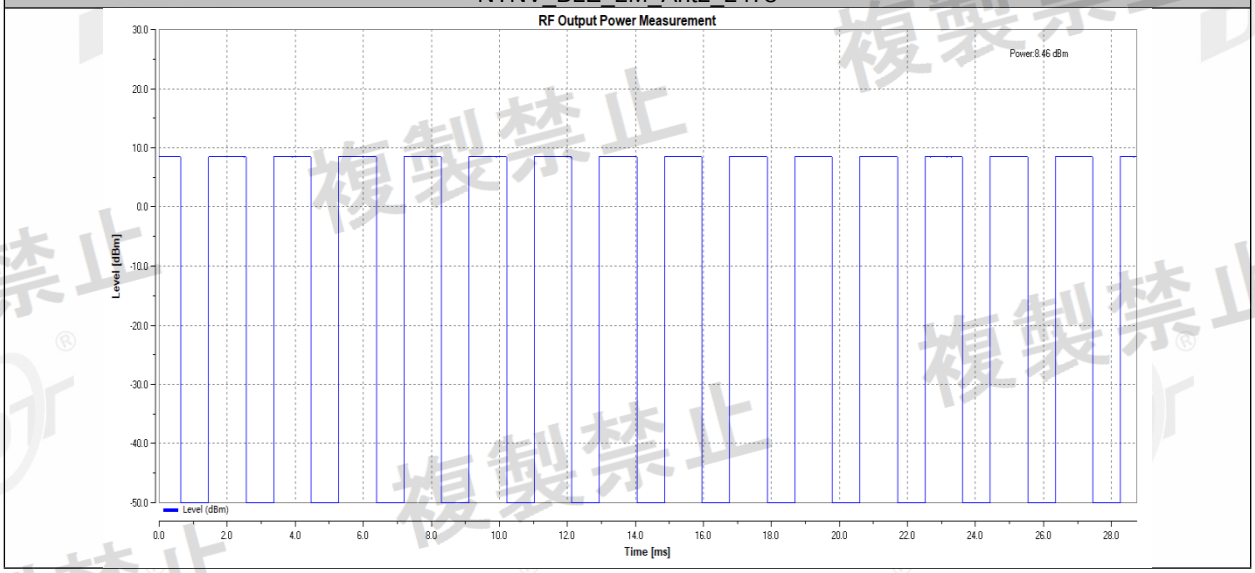

NTNV_BLE_2M_Ant2_2440




NTNV_BLE_2M_Ant1_2478




NTNV_BLE_2M_Ant2_2478

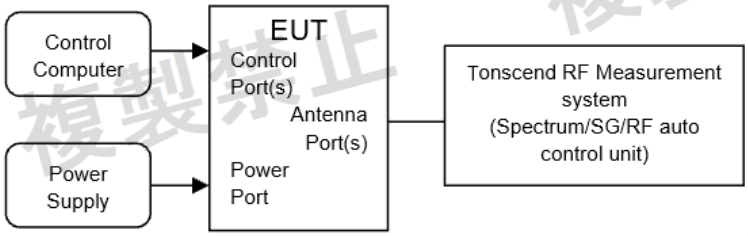


# 6. Occupied Frequency Bandwidth

## 6.1. Limit

26 MHz or less

## 6.2. Block diagram of test setup




## 6.3. Test procedure

(1) 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: 300 kHz
Video BW: 300 kHz
Span: 5 MHz
Detector: Peak.
Trace Mode: Max Hold.

(2) When the trace is complete, measure the Occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.

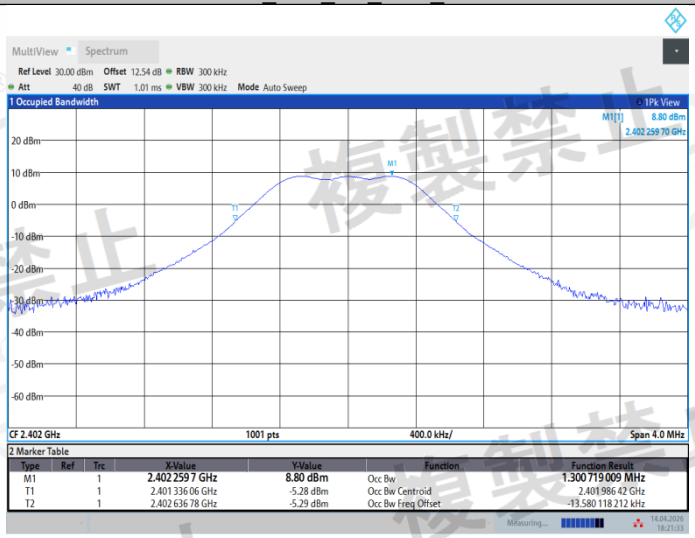
## 6.4. Test result

| | | | |
|---|---|---|---|
| Test Engineer: | Huang Yanwen | Test Site: | RF Measurement system 4# |
| Ambient Condition: | 25.3℃,46.2%RH | Test Date: | 2026.04.14-2026.04.14 |
| Test Power Supply: | DC 3.7V | Sample Number: | S25103113-004 |

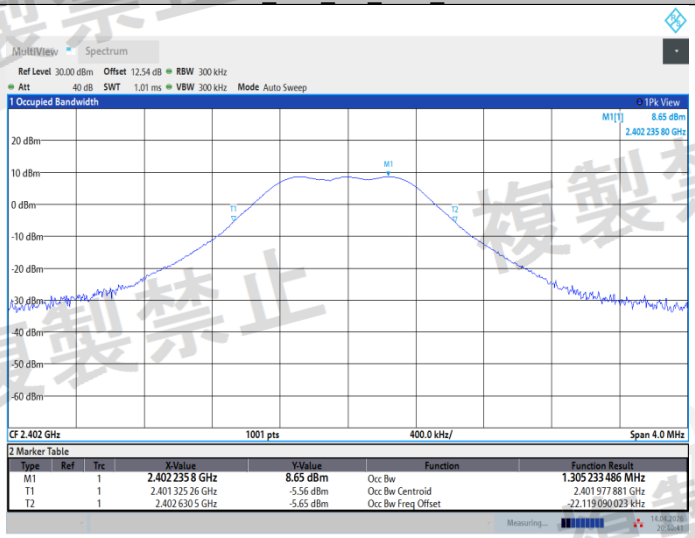
| TestCondition | TestMode | Antenna | Freq(MHz) | Result [MHz] | Limit [MHz] | Verdict |
|---|---|---|---|---|---|---|
| NTNV | BLE_1M | Ant1 | 2402 | 1.301 | ≤26 | PASS |
| | | Ant2 | 2402 | 1.305 | ≤26 | PASS |
| | | Ant1 | 2440 | 1.298 | ≤26 | PASS |
| | | Ant2 | 2440 | 1.301 | ≤26 | PASS |
| | | Ant1 | 2480 | 1.299 | ≤26 | PASS |
| | | Ant2 | 2480 | 1.302 | ≤26 | PASS |
| | BLE_2M | Ant1 | 2404 | 2.195 | ≤26 | PASS |
| | | Ant2 | 2404 | 2.193 | ≤26 | PASS |
| | | Ant1 | 2440 | 2.192 | ≤26 | PASS |
| | | Ant2 | 2440 | 2.193 | ≤26 | PASS |
| | | Ant1 | 2478 | 2.195 | ≤26 | PASS |
| | | Ant2 | 2478 | 2.191 | ≤26 | PASS |

## 6.5. Test graphs

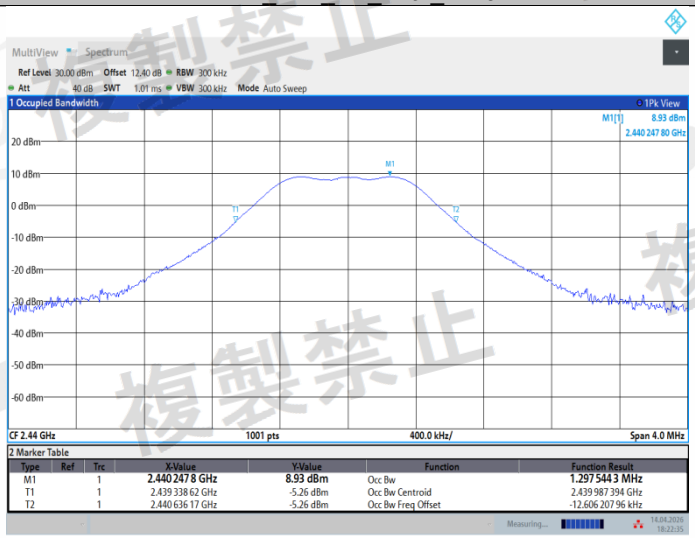
NTNV_BLE_1M_Ant1_2402



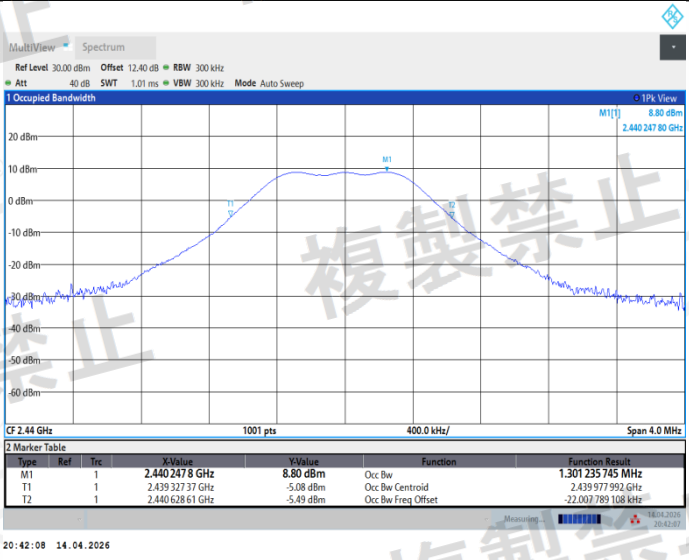

NTNV_BLE_1M_Ant2_2402



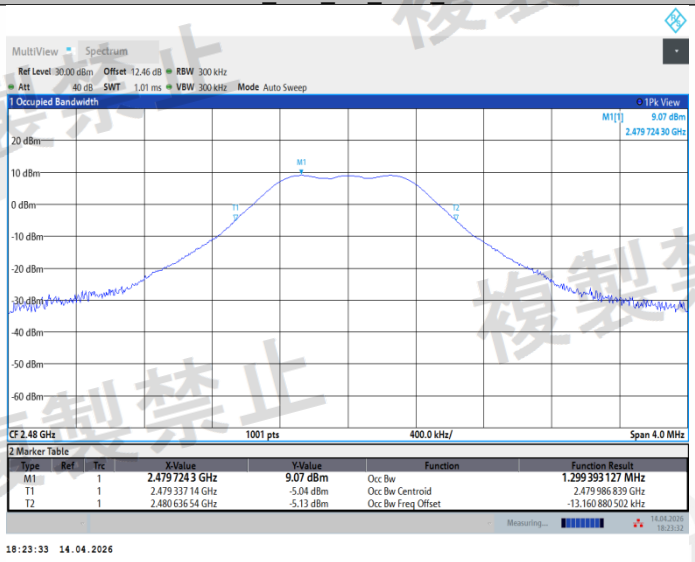

NTNV_BLE_1M_Ant1_2440



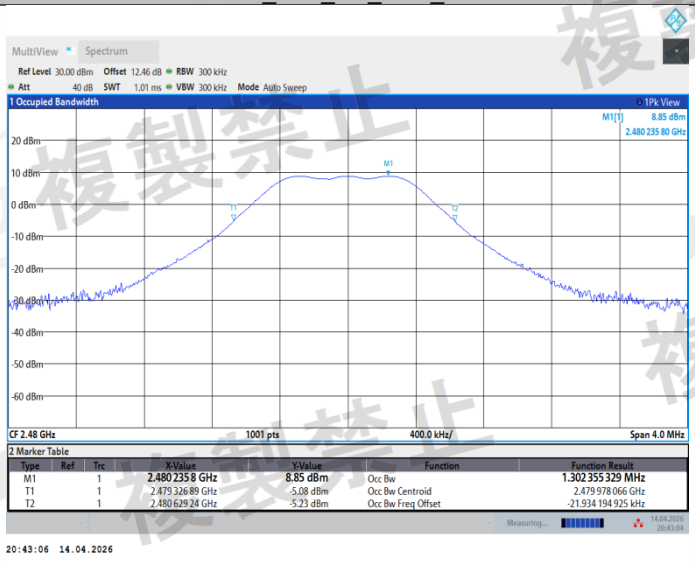

NTNV_BLE_1M_Ant2_2440



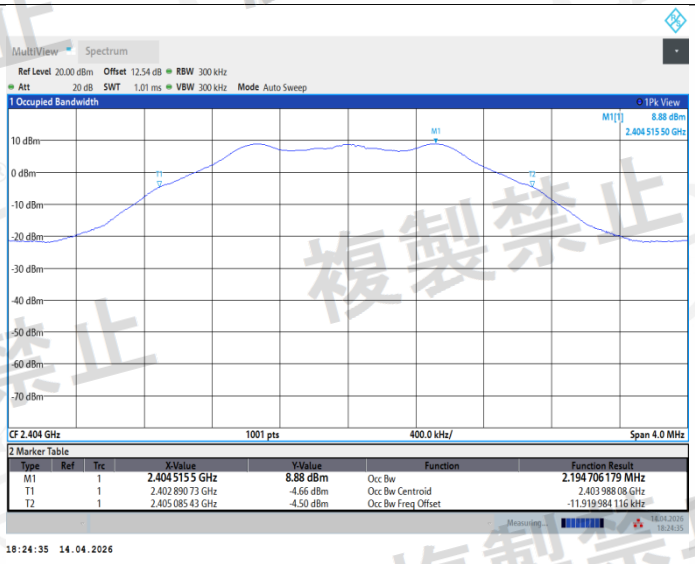

NTNV_BLE_1M_Ant1_2480



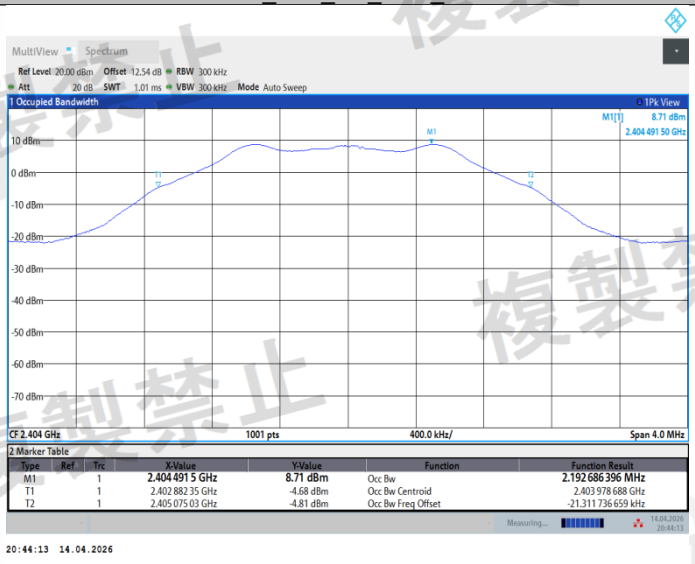

NTNV_BLE_1M_Ant2_2480



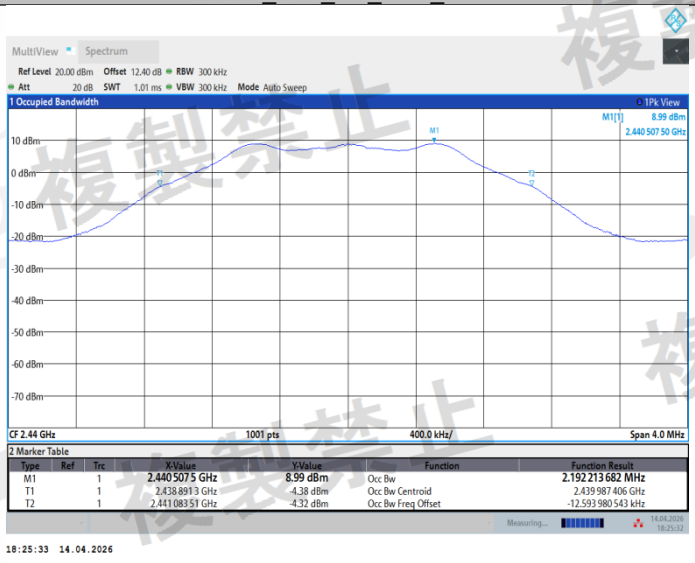

NTNV_BLE_2M_Ant1_2404



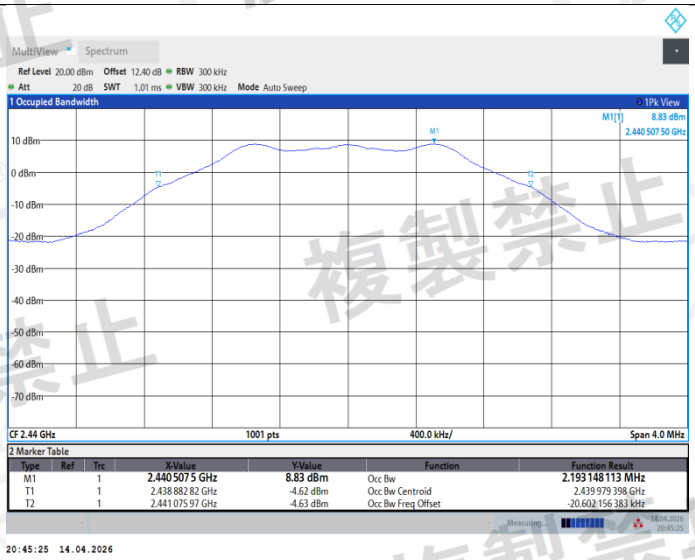

NTNV_BLE_2M_Ant2_2404



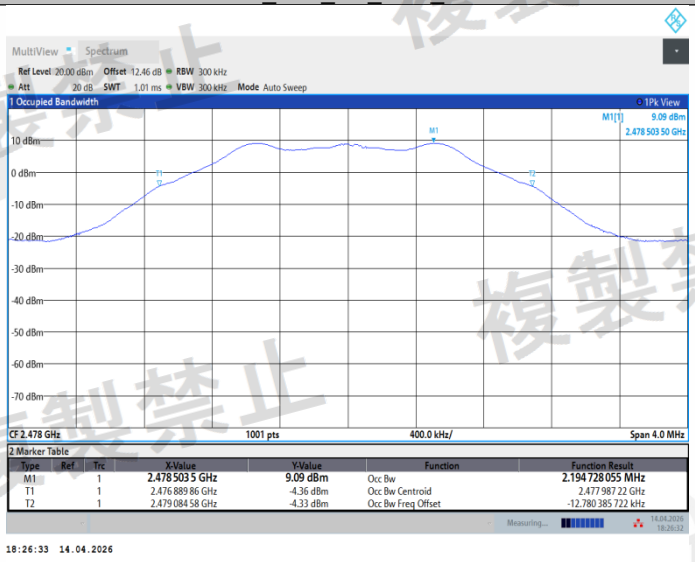

NTNV_BLE_2M_Ant1_2440



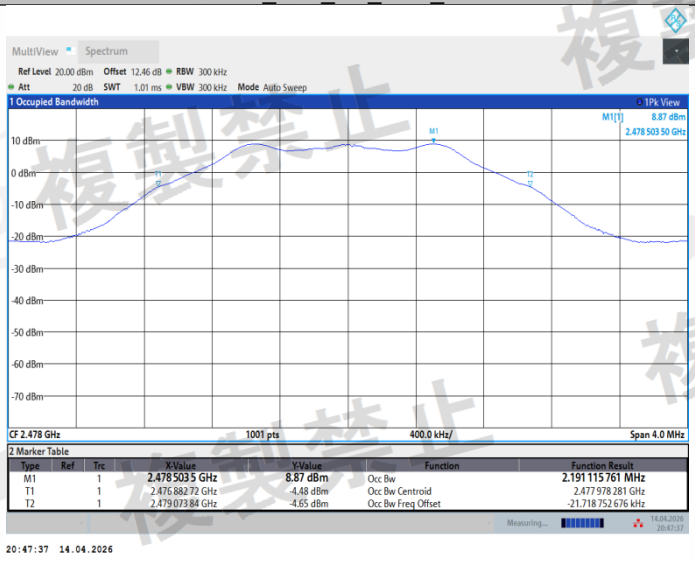

NTNV_BLE_2M_Ant2_2440




NTNV_BLE_2M_Ant1_2478




NTNV_BLE_2M_Ant2_2478



# 7. Transmitter Spurious Emissions

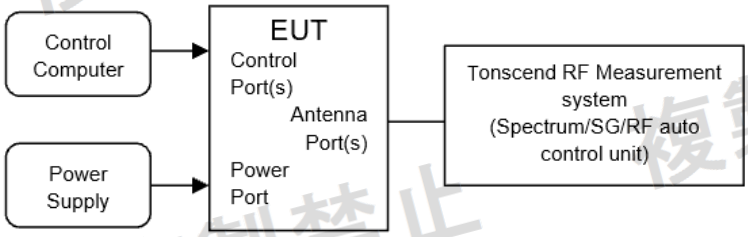
## 7.1. Limit

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:

a. 2,387 MHz ≤ f ≤ 2,400 MHz and 2,483.5 MHz < f ≤ 2,496.5 MHz 25 μW or less

b. 2,387 MHz > f and 2,496.5 MHz < f 2.5 μW or less

## 7.2. Block diagram of test setup




## 7.3. Test procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator.

(2) Set the Spectrum Analyzer as below, sweep the frequency, and search for unwanted emission.

Resolution BW: 1 MHz,

Video BW: Same with Resolution BW,

Detector: Peak,

Trace Mode: Max Hold,

(3) All the emissions from 30 MHz to 13 GHz were measured and record.

(4) In the vicinity of the carrier wave, etc., it is possible to set a narrower resolution bandwidth for measurement as necessary. In that case, convert the intensity of the unwanted emission to the value in the reference bandwidth. For this report if spurious emissions are greater than [limit -3dB] in 1MHz RBW, then more detailed measurements are required. Repeat the test in 30kHz RBW, the spurious emission value using following the formula below:

Calculated Value = (Measured Value + 15.2 dB)

15.2 dB adjustment is derived from the Conversion Factor of RBW

Conversion Factor of RBW = 10 x Log (Reference Bandwidth / RBW of measurement) = 15.2[dB]

Where: Reference Bandwidth = 1 MHz

RBW of measurement = 30 kHz

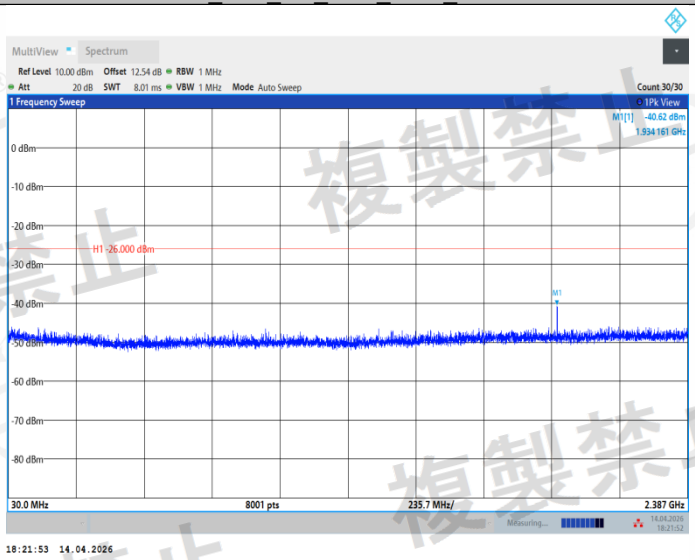
## 7.4. Test result

| Test Engineer: | Huang Yanwen | Test Site: | RF Measurement system 4# |
|---|---|---|---|
| Ambient Condition: | 25.3℃,46.2%RH | Test Date: | 2026.04.14-2026.04.14 |
| Test Power Supply: | DC 3.7V | Sample Number: | S25103113-004 |

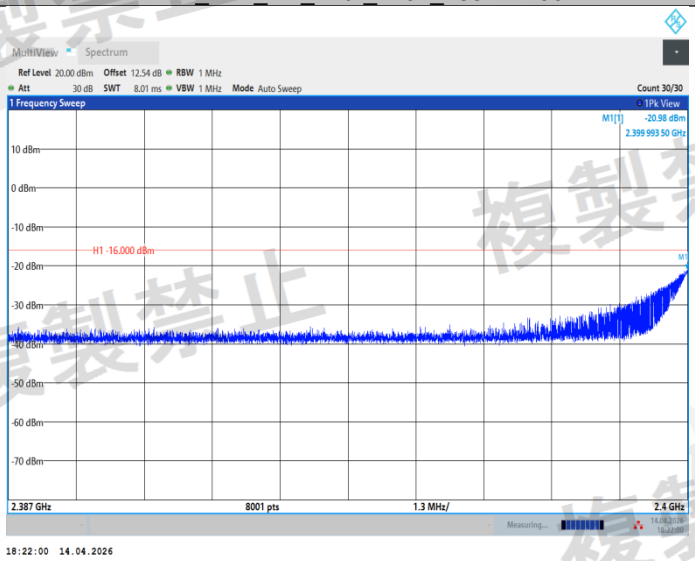
| TestCondition | TestMode | Antenna | Freq(MHz) | Freq.Range [MHz] | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [μW] | Limit [μW] | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| NTNV | BLE_1M | Ant1 | 2402 | 30~2387 | 1934.16 | -40.62 | ≤-26 | 0.08670 | ≤2.5 | PASS |
| | | | | 2387~2400 | 2399.99 | -20.98 | ≤-16 | 7.97995 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | 2484.91 | -34.89 | ≤-16 | 0.32434 | ≤25 | PASS |
| | | | | 2496.5~13000 | 7206.50 | -40.61 | ≤-26 | 0.08690 | ≤2.5 | PASS |
| | | Ant2 | 2402 | 30~2387 | 63.88 | -45.73 | ≤-26 | 0.02673 | ≤2.5 | PASS |
| | | | | 2387~2400 | 2399.98 | -20.63 | ≤-16 | 8.64968 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | 2492.30 | -34.46 | ≤-16 | 0.35810 | ≤25 | PASS |
| | | | | 2496.5~13000 | 7486.96 | -41.52 | ≤-26 | 0.07047 | ≤2.5 | PASS |
| | | Ant1 | 2440 | 30~2387 | 1919.43 | -45.47 | ≤-26 | 0.02838 | ≤2.5 | PASS |
| | | | | 2387~2400 | 2387.64 | -35.78 | ≤-16 | 0.26424 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | 2484.19 | -35.25 | ≤-16 | 0.29854 | ≤25 | PASS |
| | | | | 2496.5~13000 | 7435.49 | -41.61 | ≤-26 | 0.06902 | ≤2.5 | PASS |
| | | Ant2 | 2440 | 30~2387 | 2055.55 | -45.38 | ≤-26 | 0.02897 | ≤2.5 | PASS |
| | | | | 2387~2400 | 2394.35 | -35.40 | ≤-16 | 0.28840 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | 2490.38 | -35.43 | ≤-16 | 0.28642 | ≤25 | PASS |
| | | | | 2496.5~13000 | 7321.00 | -41.16 | ≤-26 | 0.07656 | ≤2.5 | PASS |
| | | Ant1 | 2480 | 30~2387 | 2148.94 | -45.72 | ≤-26 | 0.02679 | ≤2.5 | PASS |
| | | | | 2387~2400 | 2396.02 | -35.79 | ≤-16 | 0.26363 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | 2483.54 | -30.41 | ≤-16 | 0.90991 | ≤25 | PASS |
| | | | | 2496.5~13000 | 7439.69 | -38.78 | ≤-26 | 0.13243 | ≤2.5 | PASS |
| | | Ant2 | 2480 | 30~2387 | 2214.06 | -45.17 | ≤-26 | 0.03041 | ≤2.5 | PASS |
| | | | | 2387~2400 | 2391.30 | -35.75 | ≤-16 | 0.26607 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | 2483.61 | -29.37 | ≤-16 | 1.15611 | ≤25 | PASS |
| | | | | 2496.5~13000 | 7439.17 | -40.64 | ≤-26 | 0.08630 | ≤2.5 | PASS |
| | BLE_2M | Ant1 | 2404 | 30~2387 | 2367.55 | -45.24 | ≤-26 | 0.02992 | ≤2.5 | PASS |
| | | | | 2387~2400 | 2399.92 | -32.02 | ≤-16 | 0.62806 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | 2486.08 | -35.36 | ≤-16 | 0.29107 | ≤25 | PASS |
| | | | | 2496.5~13000 | 7488.54 | -41.72 | ≤-26 | 0.06730 | ≤2.5 | PASS |
| | | Ant2 | 2404 | 30~2387 | 2375.80 | -45.50 | ≤-26 | 0.02818 | ≤2.5 | PASS |
| | | | | 2387~2400 | 2399.97 | -30.97 | ≤-16 | 0.79983 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | 2483.67 | -35.42 | ≤-16 | 0.28708 | ≤25 | PASS |
| | | | | 2496.5~13000 | 7495.37 | -41.06 | ≤-26 | 0.07834 | ≤2.5 | PASS |
| | | Ant1 | 2440 | 30~2387 | 1737.65 | -45.61 | ≤-26 | 0.02748 | ≤2.5 | PASS |
| | | | | 2387~2400 | 2392.65 | -35.71 | ≤-16 | 0.26853 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | 2490.41 | -35.52 | ≤-16 | 0.28054 | ≤25 | PASS |
| | | | | 2496.5~13000 | 7462.28 | -40.81 | ≤-26 | 0.08299 | ≤2.5 | PASS |
| | | Ant2 | 2440 | 30~2387 | 2201.68 | -45.69 | ≤-26 | 0.02698 | ≤2.5 | PASS |
| | | | | 2387~2400 | 2398.85 | -35.63 | ≤-16 | 0.27353 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | 2486.76 | -35.29 | ≤-16 | 0.29580 | ≤25 | PASS |
| | | | | 2496.5~13000 | 7318.90 | -40.92 | ≤-26 | 0.08091 | ≤2.5 | PASS |
| | | Ant1 | 2478 | 30~2387 | 2279.17 | -45.49 | ≤-26 | 0.02825 | ≤2.5 | PASS |
| | | | | 2387~2400 | 2388.52 | -35.95 | ≤-16 | 0.25410 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | 2484.34 | -33.30 | ≤-16 | 0.46774 | ≤25 | PASS |
| | | | | 2496.5~13000 | 7435.49 | -40.34 | ≤-26 | 0.09247 | ≤2.5 | PASS |
| | | Ant2 | 2478 | 30~2387 | 2144.23 | -45.57 | ≤-26 | 0.02773 | ≤2.5 | PASS |
| | | | | 2387~2400 | 2394.15 | -35.19 | ≤-16 | 0.30269 | ≤25 | PASS |
| | | | | 2483.5~2496.5 | 2483.59 | -33.83 | ≤-16 | 0.41400 | ≤25 | PASS |
| | | | | 2496.5~13000 | 7440.74 | -41.37 | ≤-26 | 0.07295 | ≤2.5 | PASS |

## 7.5. Test graphs

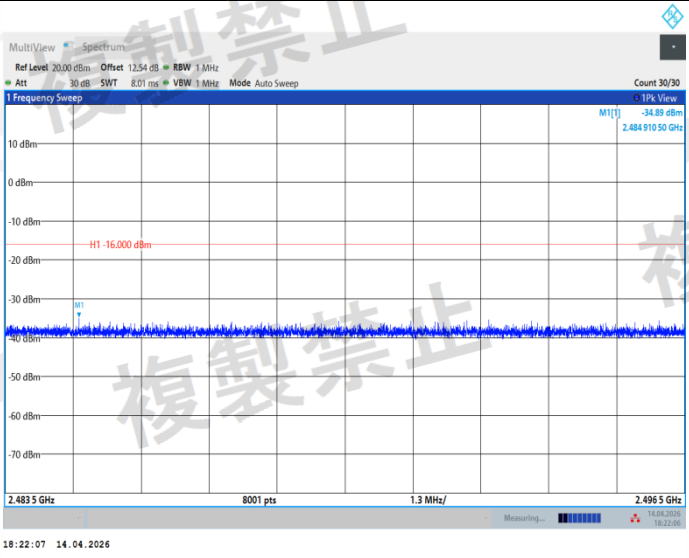
NTNV_BLE_1M_Ant1_2402_30~2387



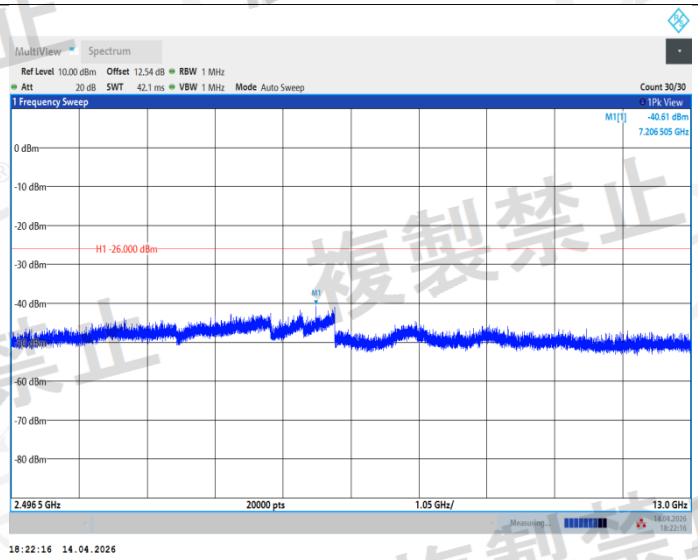

NTNV_BLE_1M_Ant1_2402_2387~2400



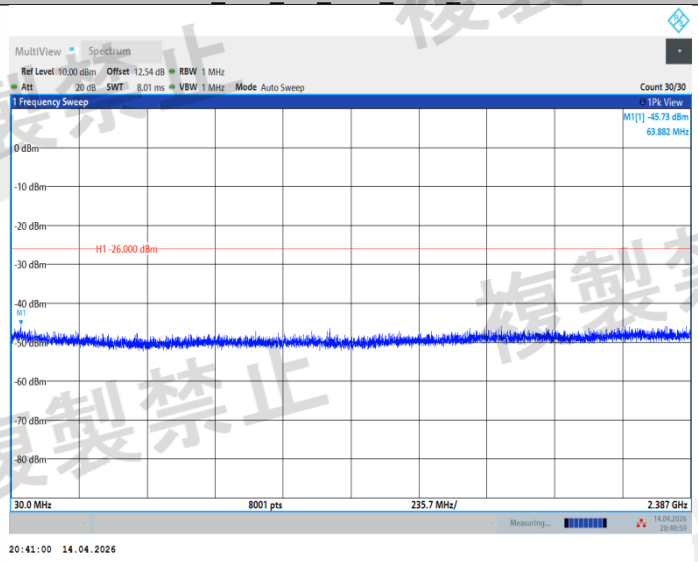

NTNV_BLE_1M_Ant1_2402_2483.5~2496.5



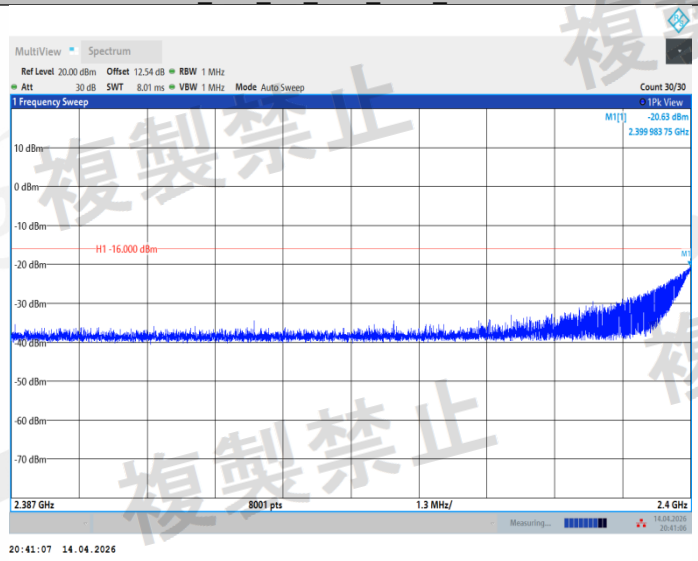

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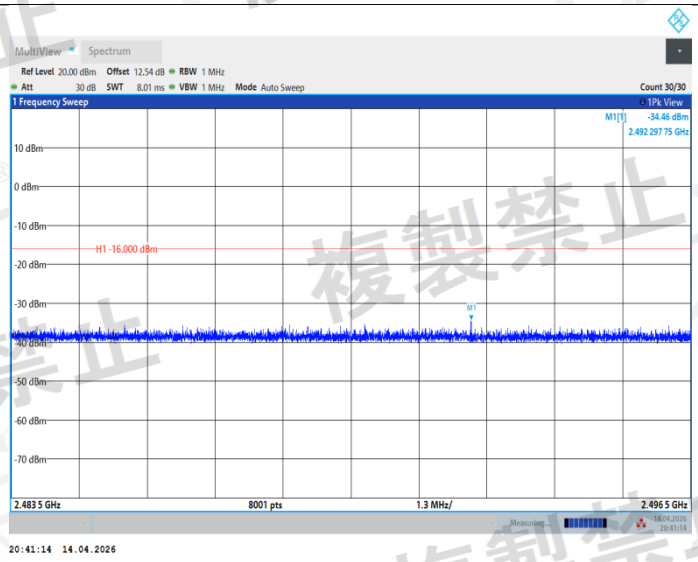

NTNV_BLE_1M_Ant2_2402_30~2387



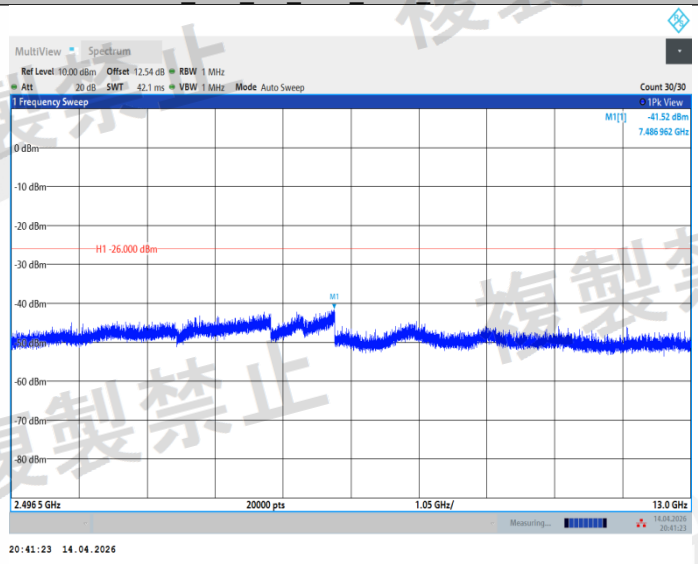

NTNV_BLE_1M_Ant2_2402_2387~2400



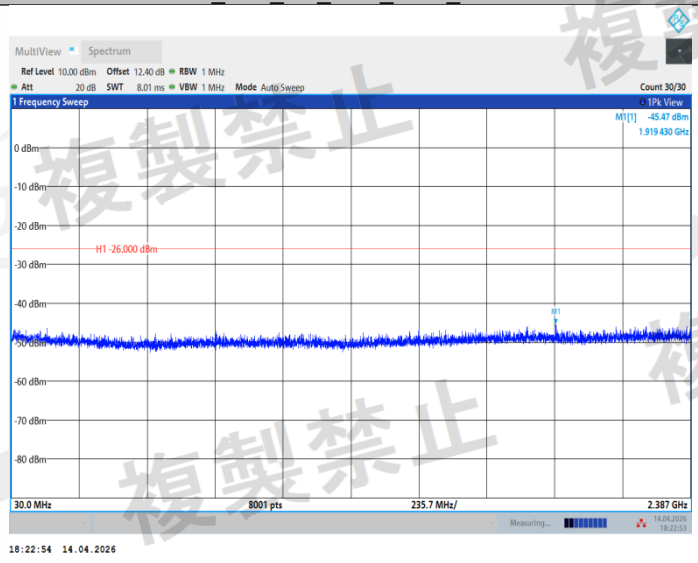

NTNV_BLE_1M_Ant2_2402_2483.5~2496.5



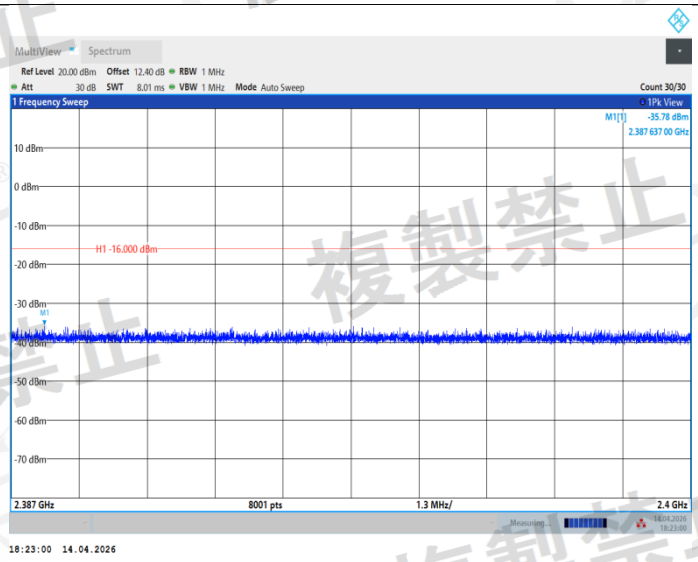

NTNV_BLE_1M_Ant2_2402_2496.5~13000



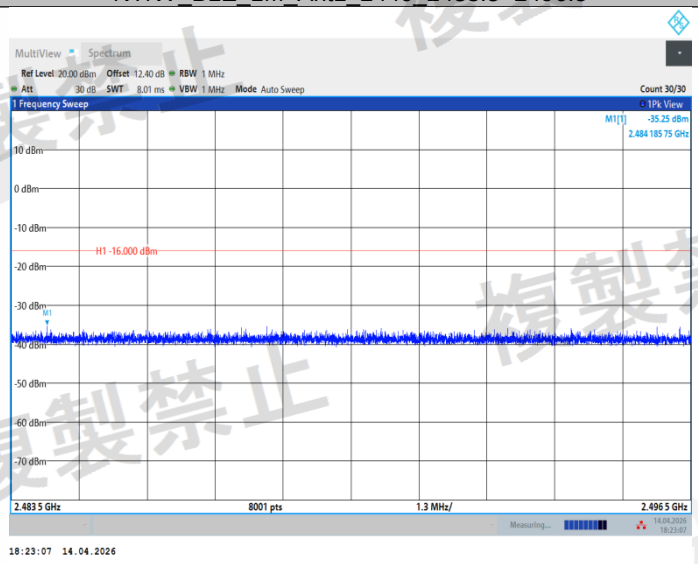

NTNV_BLE_1M_Ant1_2440_30~2387



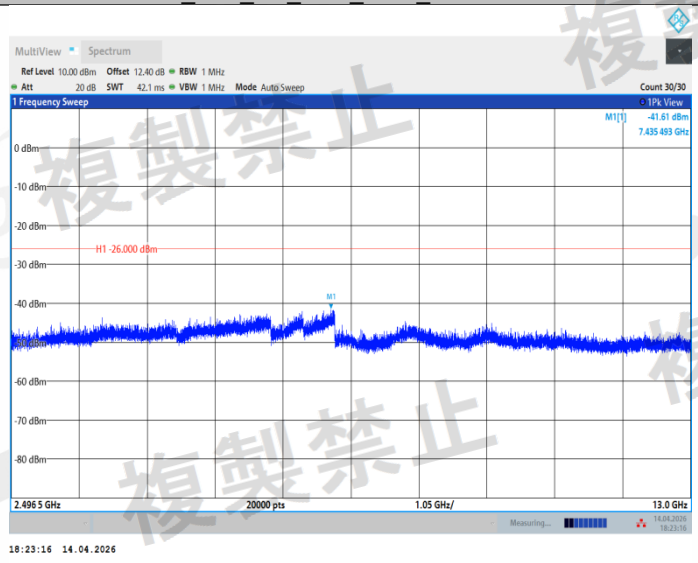

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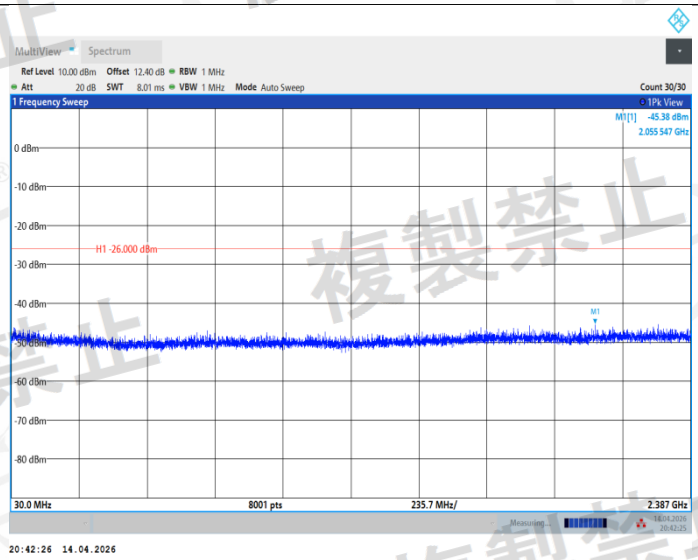

NTNV_BLE_1M_Ant1_2440_2483.5~2496.5



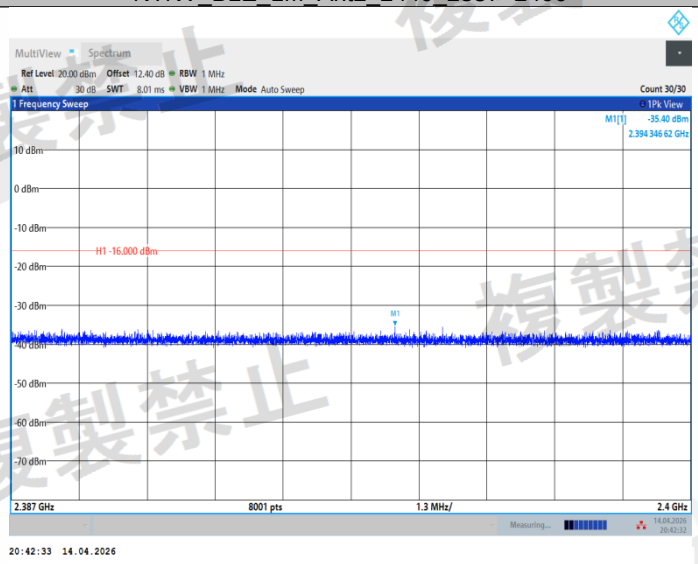

NTNV_BLE_1M_Ant1_2440_2496.5~13000



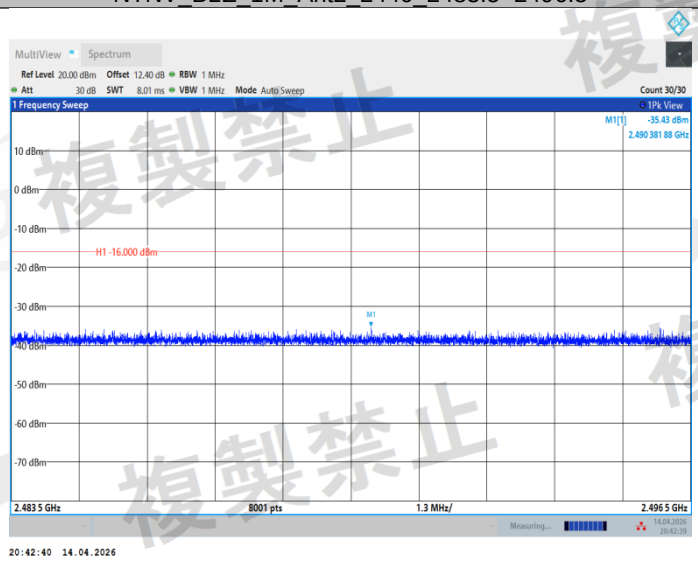

NTNV_BLE_1M_Ant2_2440_30~2387



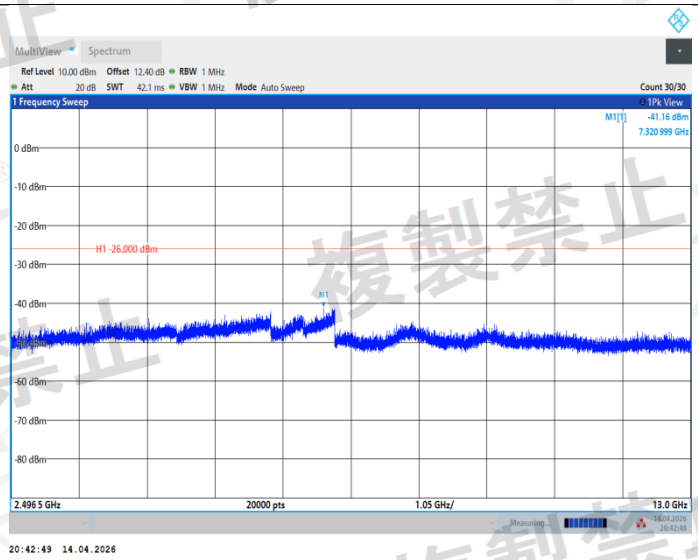

NTNV_BLE_1M_Ant2_2440_2387~2400



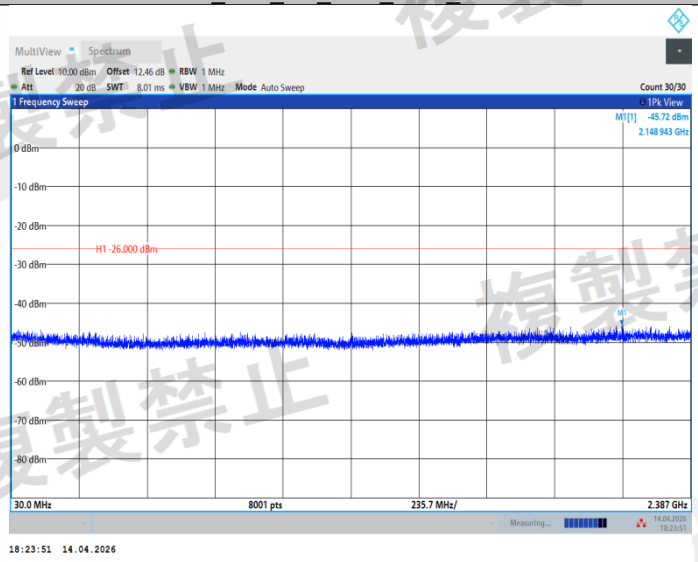

NTNV_BLE_1M_Ant2_2440_2483.5~2496.5



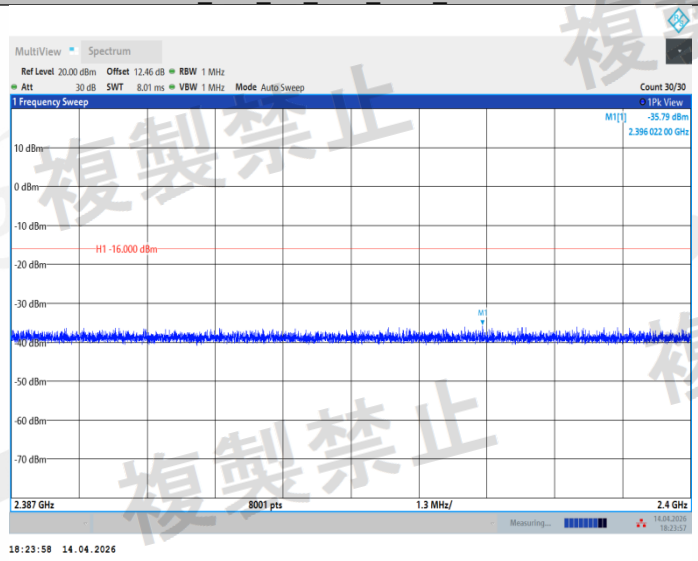

NTNV_BLE_1M_Ant2_2440_2496.5~13000



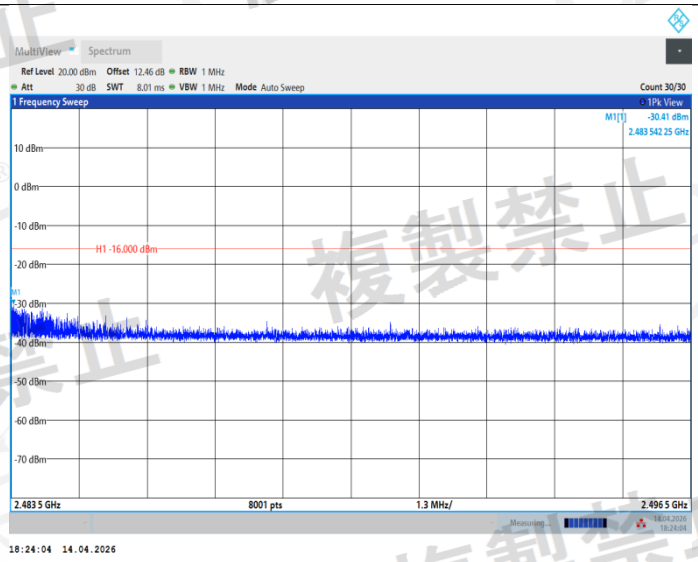

NTNV_BLE_1M_Ant1_2480_30~2387



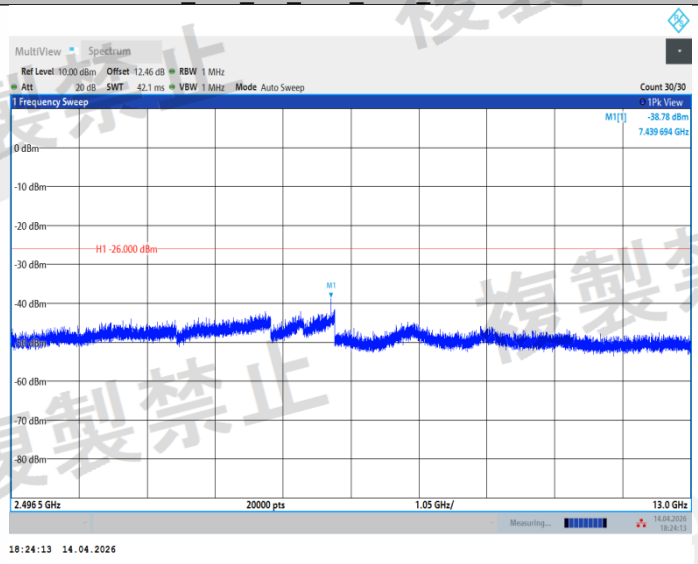

NTNV_BLE_1M_Ant1_2480_2387~2400



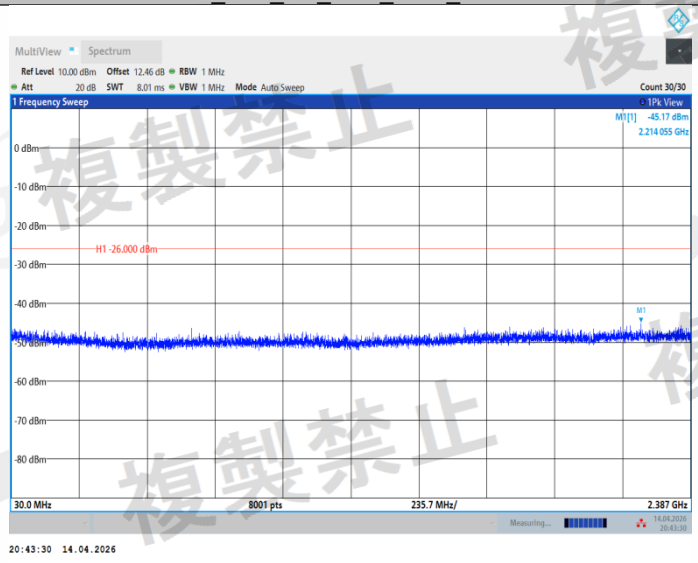

NTNV_BLE_1M_Ant1_2480_2483.5~2496.5



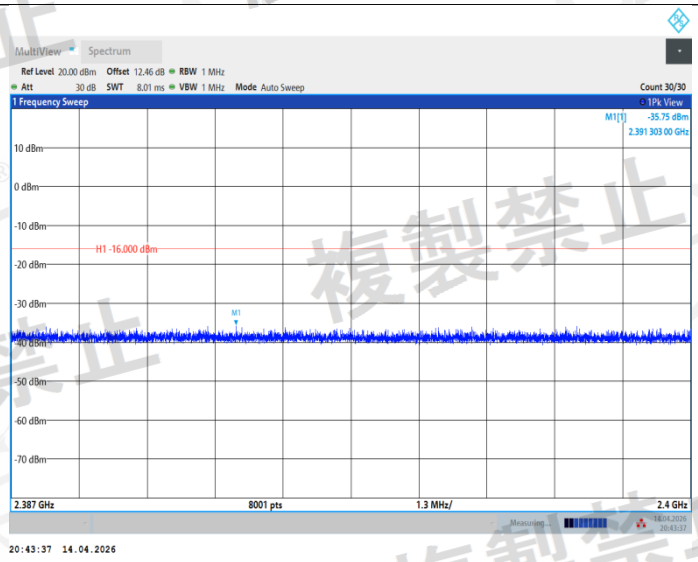

NTNV_BLE_1M_Ant1_2480_2496.5~13000



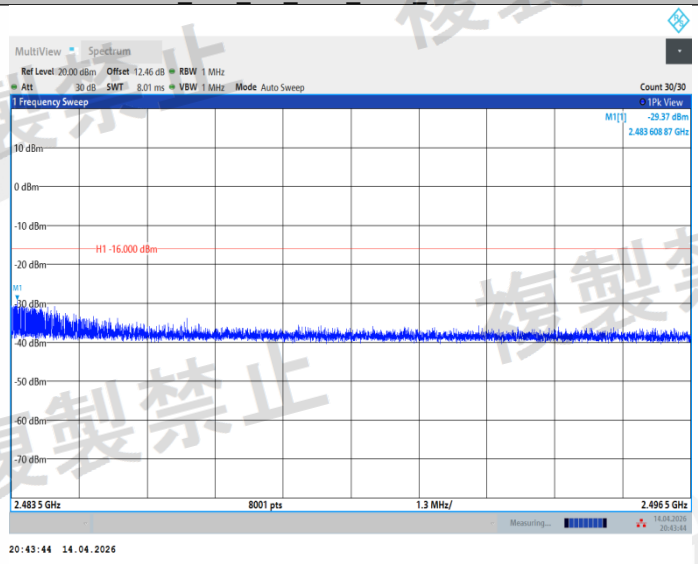

NTNV_BLE_1M_Ant2_2480_30~2387



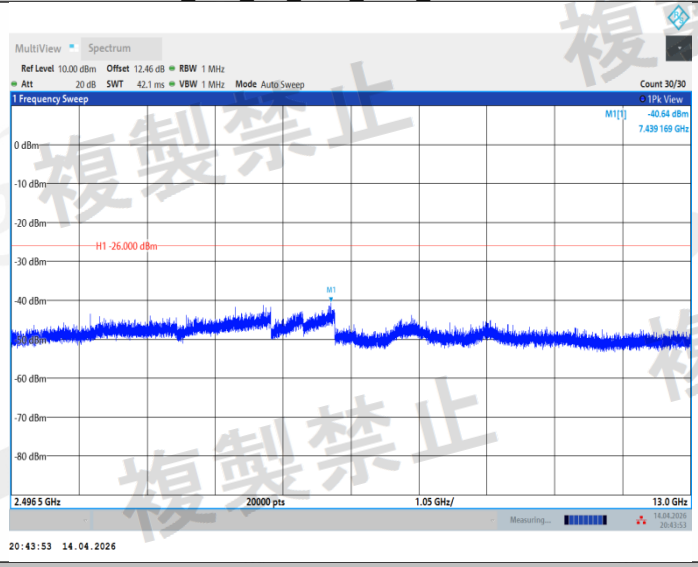

NTNV_BLE_1M_Ant2_2480_2387~2400



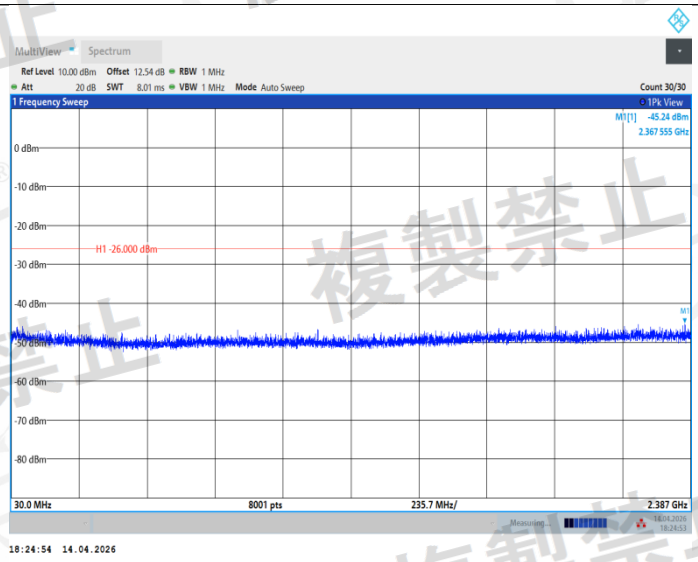

NTNV_BLE_1M_Ant2_2480_2483.5~2496.5



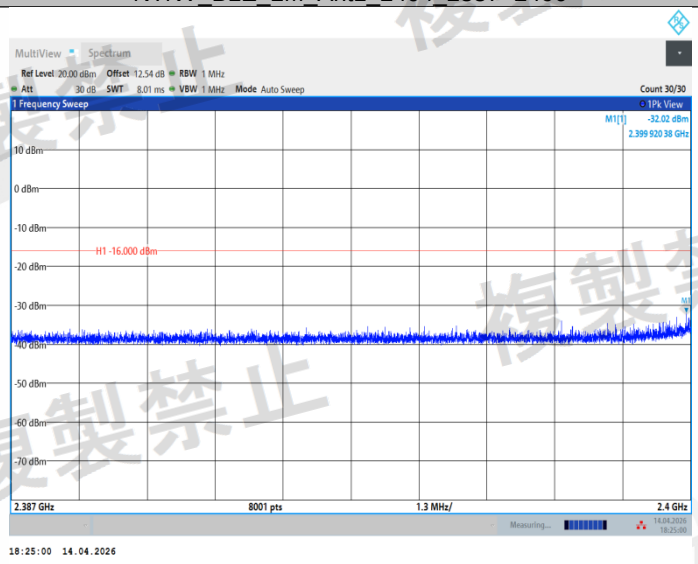

NTNV_BLE_1M_Ant2_2480_2496.5~13000



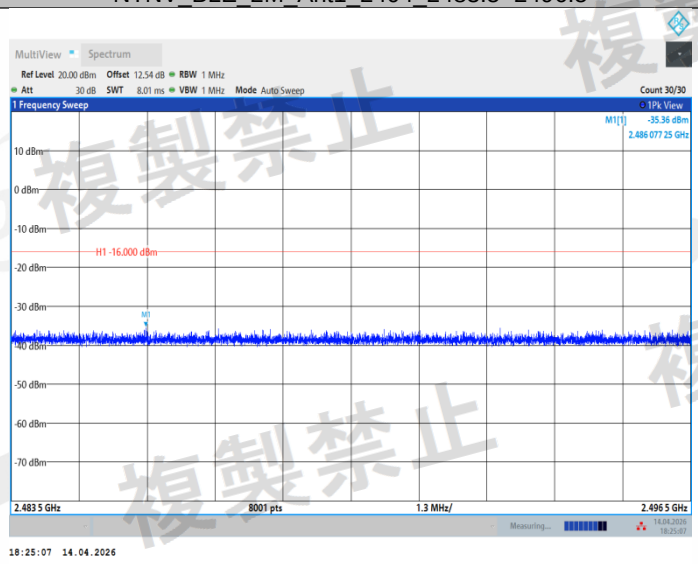

NTNV_BLE_2M_Ant1_2404_30~2387



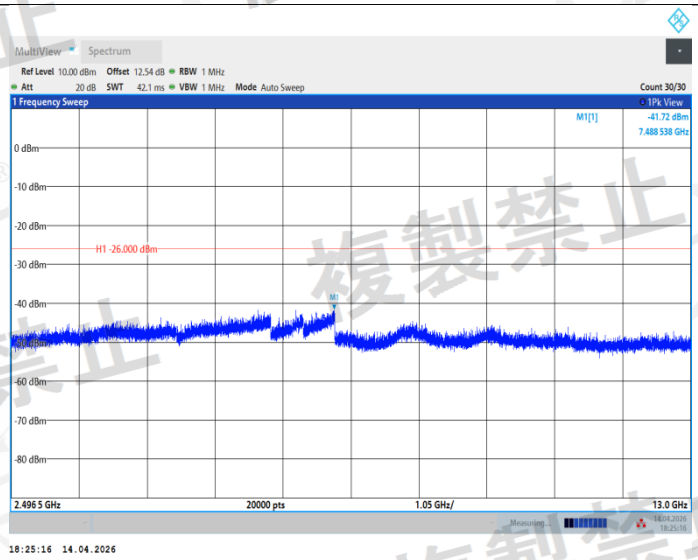

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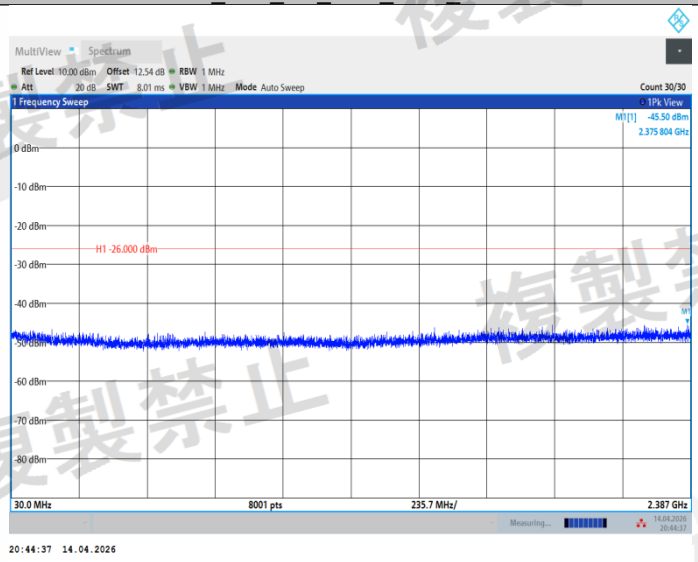

NTNV_BLE_2M_Ant1_2404_2483.5~2496.5



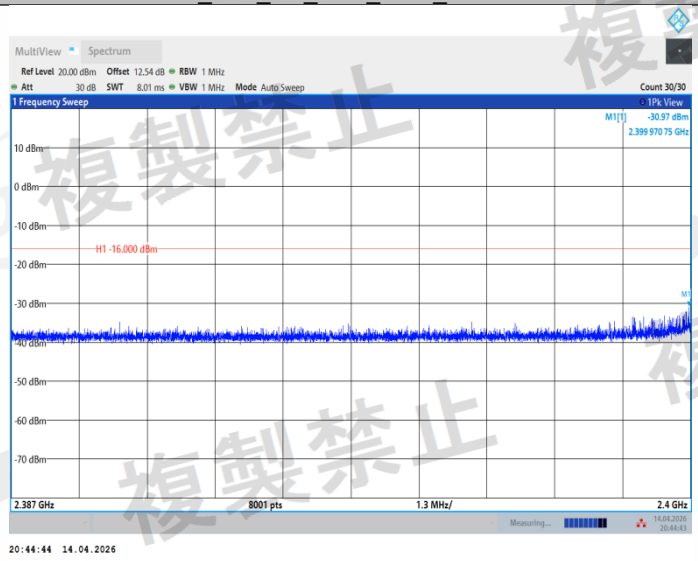

NTNV_BLE_2M_Ant1_2404_2496.5~13000



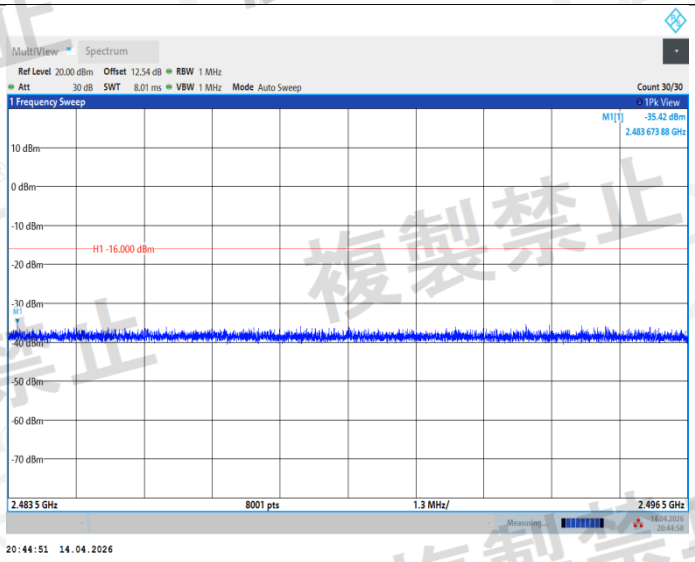

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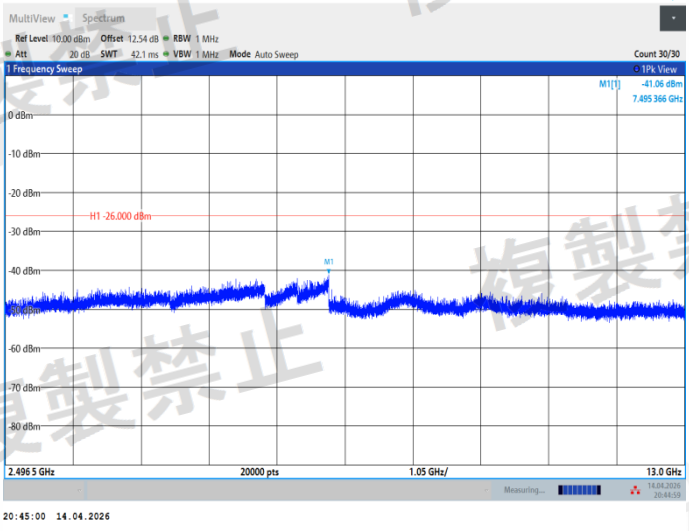

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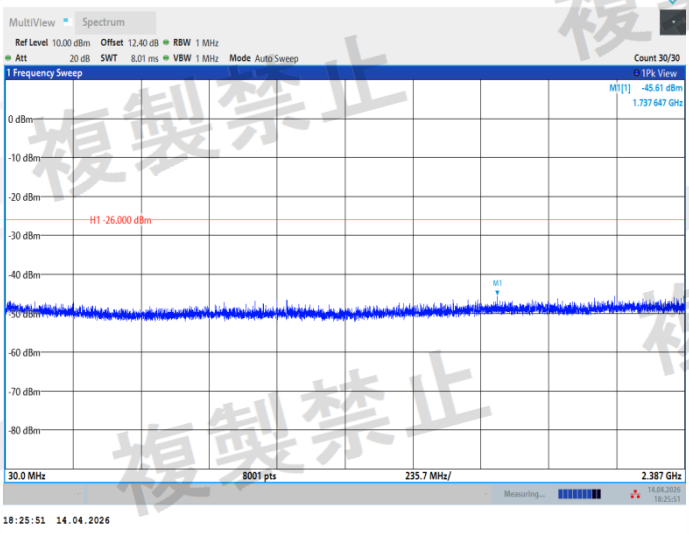

NTNV_BLE_2M_Ant2_2404_2483.5~2496.5



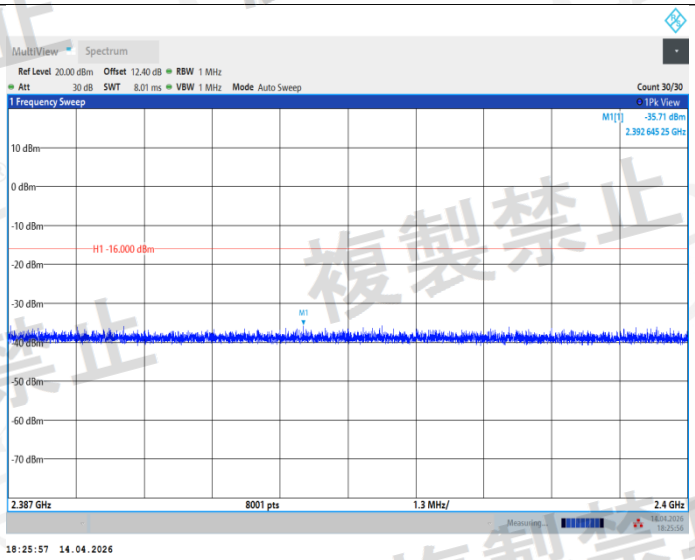

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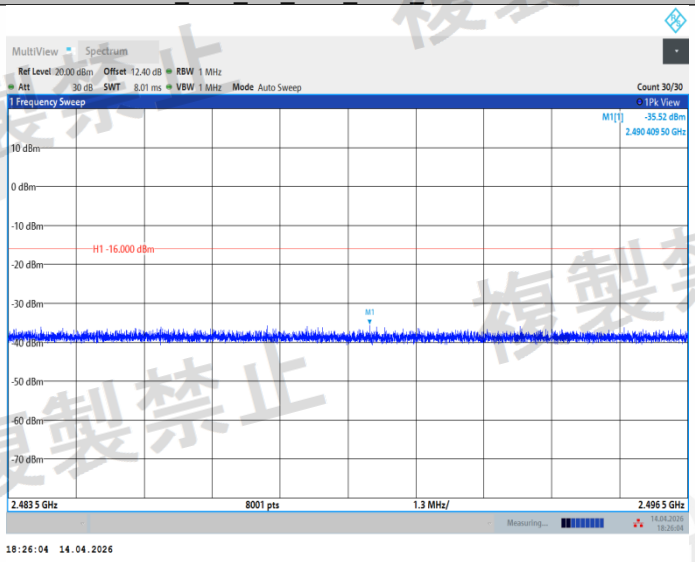

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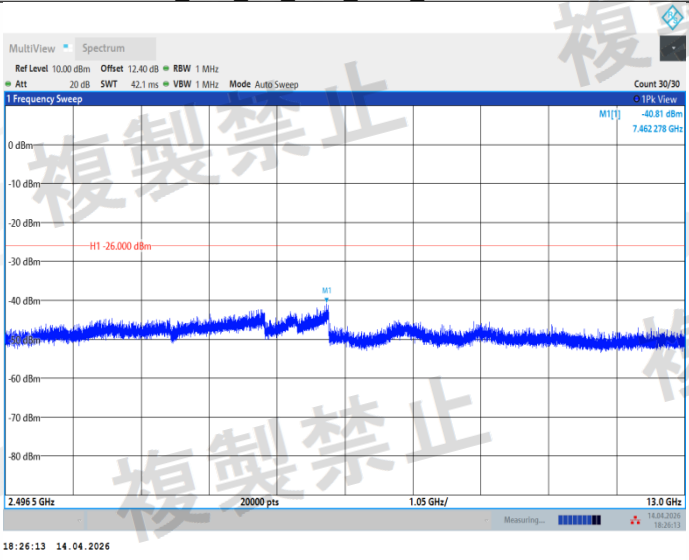

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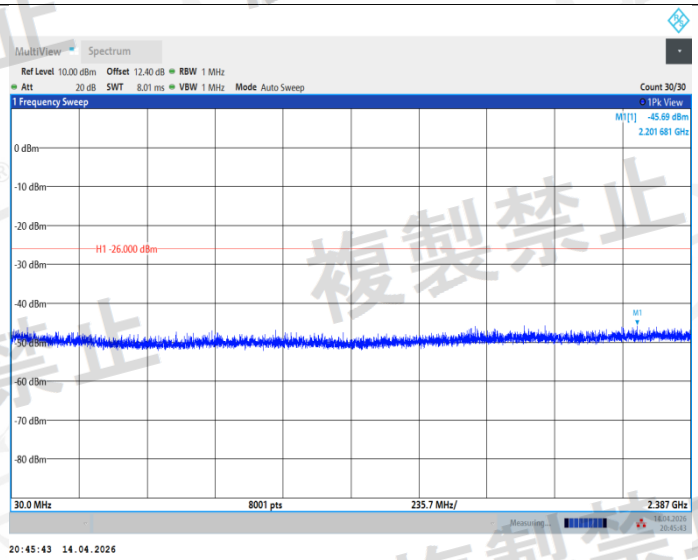

NTNV_BLE_2M_Ant1_2440_2483.5~2496.5



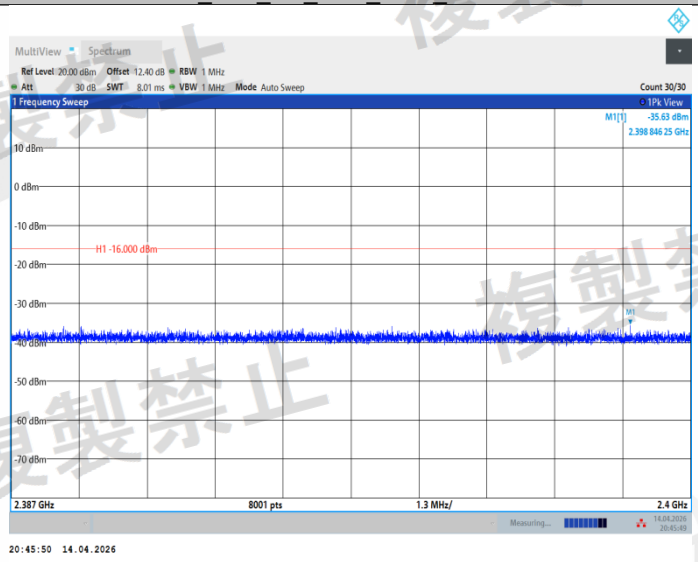

NTNV_BLE_2M_Ant1_2440_2496.5~13000



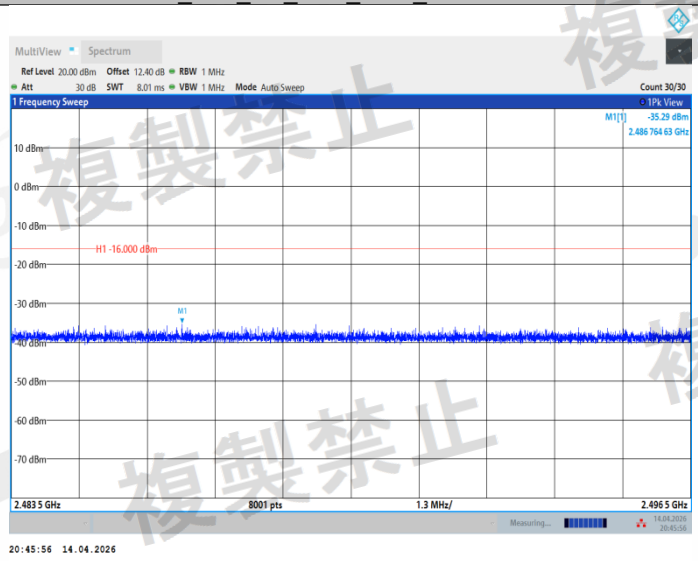

NTNV_BLE_2M_Ant2_2440_30~2387



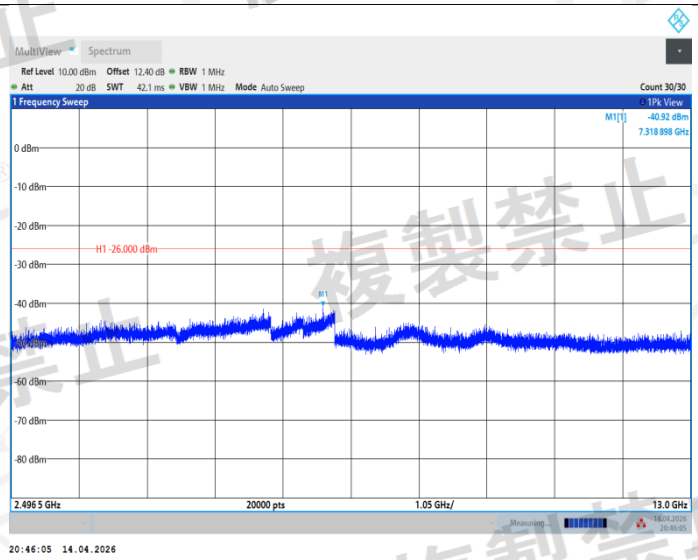

NTNV_BLE_2M_Ant2_2440_2387~2400



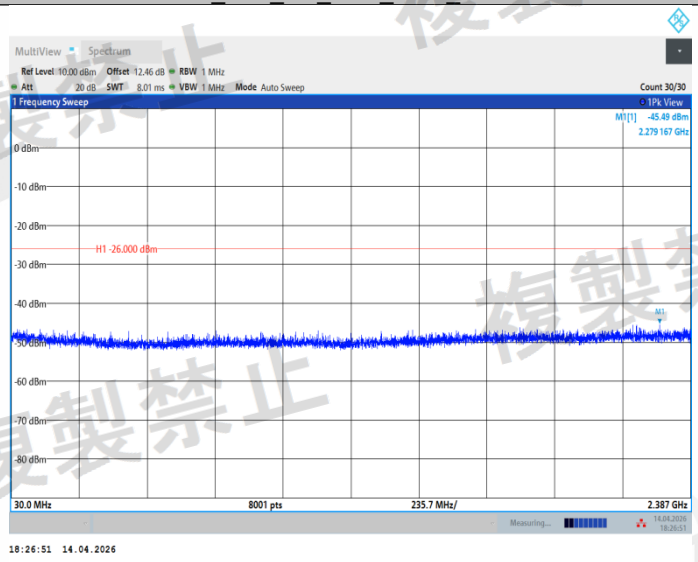

NTNV_BLE_2M_Ant2_2440_2483.5~2496.5



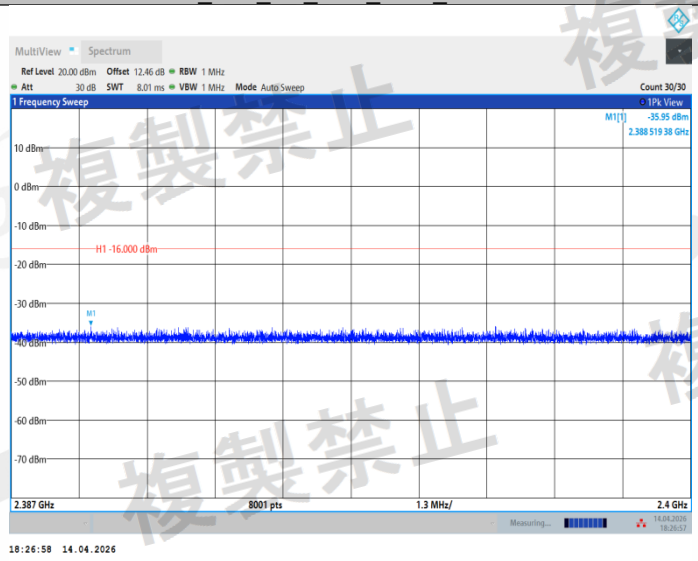

NTNV_BLE_2M_Ant2_2440_2496.5~13000



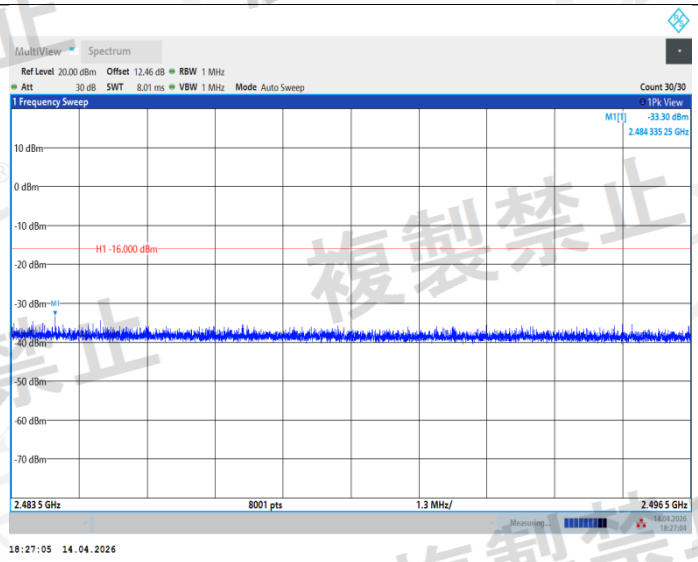

NTNV_BLE_2M_Ant1_2478_30~2387



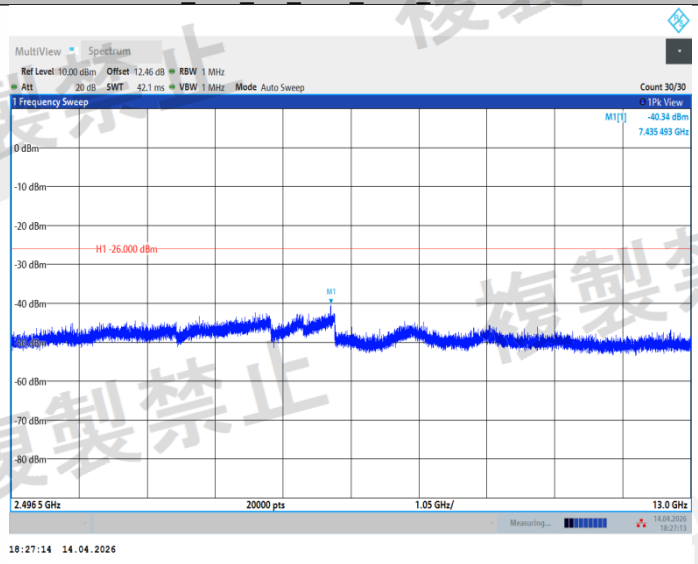

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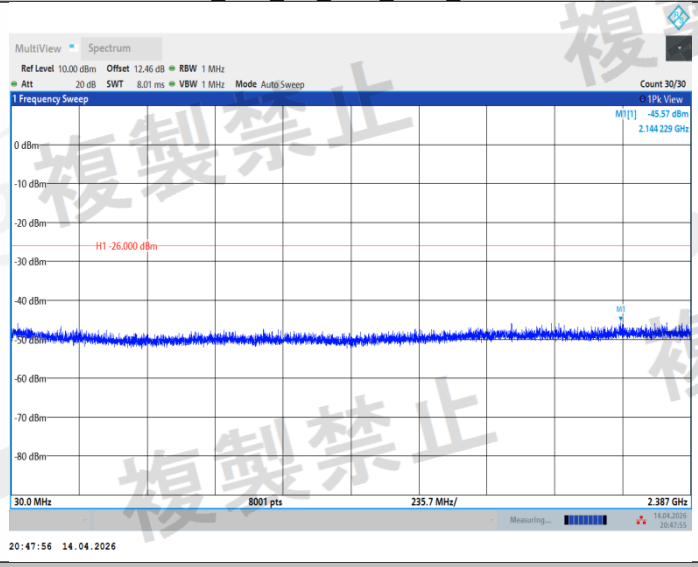

NTNV_BLE_2M_Ant1_2478_2483.5~2496.5



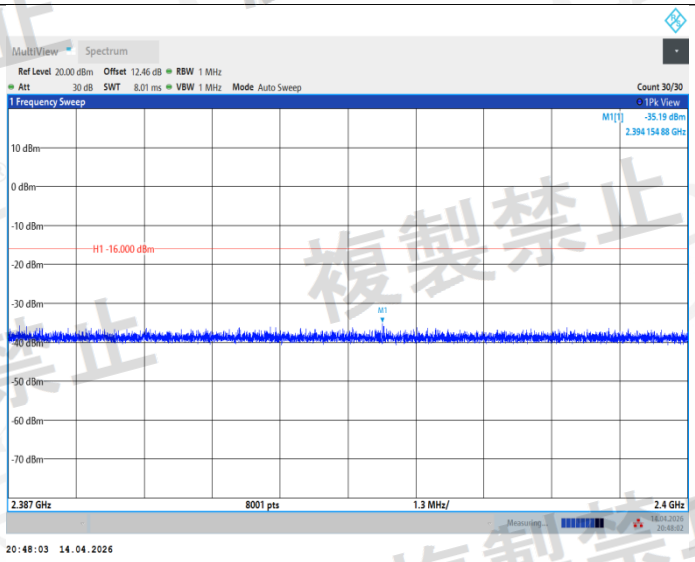

NTNV_BLE_2M_Ant1_2478_2496.5~13000



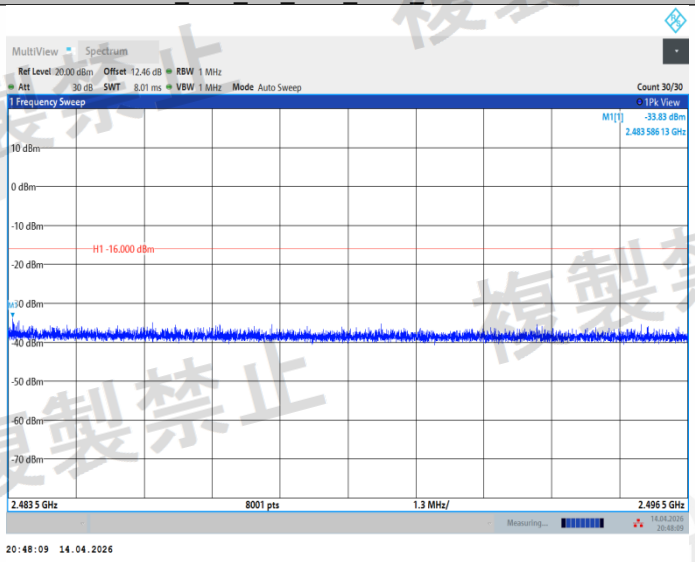

NTNV_BLE_2M_Ant2_2478_30~2387



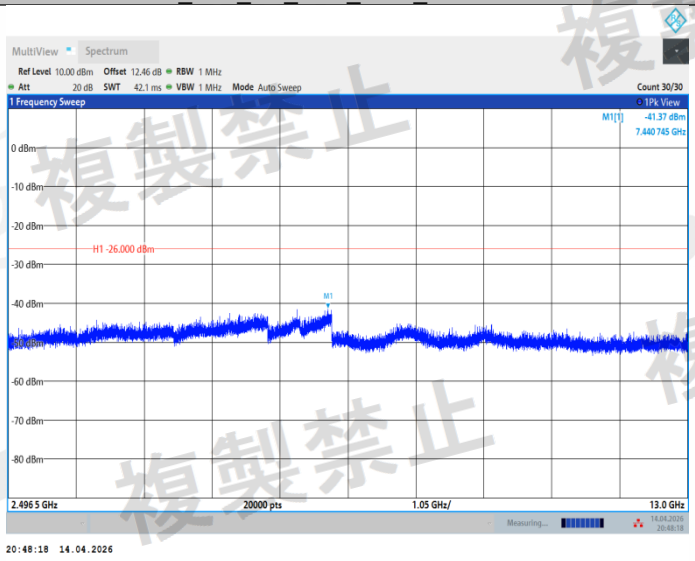

NTNV_BLE_2M_Ant2_2478_2387~2400




NTNV_BLE_2M_Ant2_2478_2483.5~2496.5




NTNV_BLE_2M_Ant2_2478_2496.5~13000

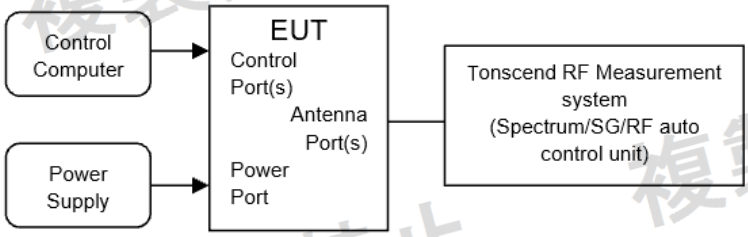


# 8. Secondary Radiated Emissions

## 8.1. 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.

## 8.2. Block diagram of test setup




## 8.3. Test procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
Resolution BW: 100 kHz for frequency below 1 GHz and 1 MHz for frequency above 1 GHz
Video BW: 100 kHz for frequency below 1 GHz and 1 MHz for frequency above 1 GHz
Detector: Peak.
Trace Mode: Max Hold.

(2) All the emissions from 30 MHz to 13 GHz were measured and record.

(3) If the searched value is 1/10 or less of the allowable value specified in the Equipment Regulations, the searched value shall be the measured value.

(4) If the searched value exceeds 1/10 of the allowable value specified in the equipment Regulations, the frequency sweep width is gradually narrowed to about 10 times the resolution bandwidth in order to improve the setting accuracy of the center frequency of the spectrum analyzer. Then, measure the secondary emission frequency, set the spectrum analyzer as below, perform averaging, and measure the secondary emission power.
Span: 0Hz
Resolution BW: 100kHz for frequency below 1GHz and 1MHz for frequency above 1GHz.
Video BW: Same with Resolution BW
Detector: Sample
Trace Mode: Max. Hold

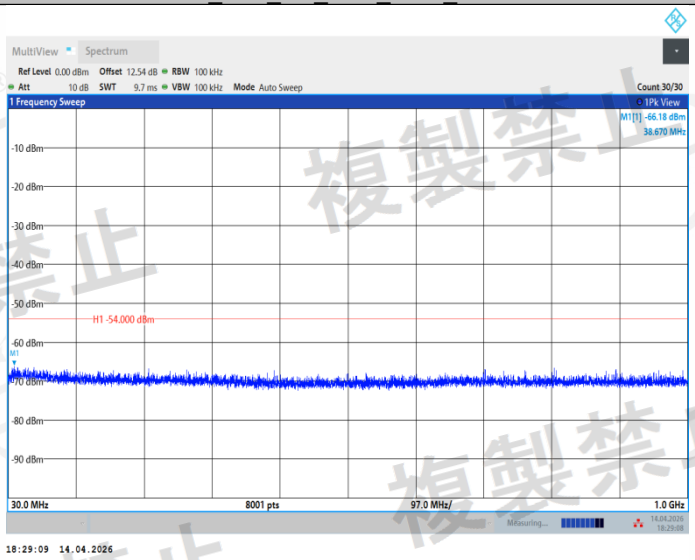
## 8.4. Test result

| Test Engineer: | Huang Yanwen | Test Site: | RF Measurement system 4# |
|---|---|---|---|
| Ambient Condition: | 25.3℃,46.2%RH | Test Date: | 2026.04.14-2026.04.14 |
| Test Power Supply: | DC 3.7V | Sample Number: | S25103113-004 |

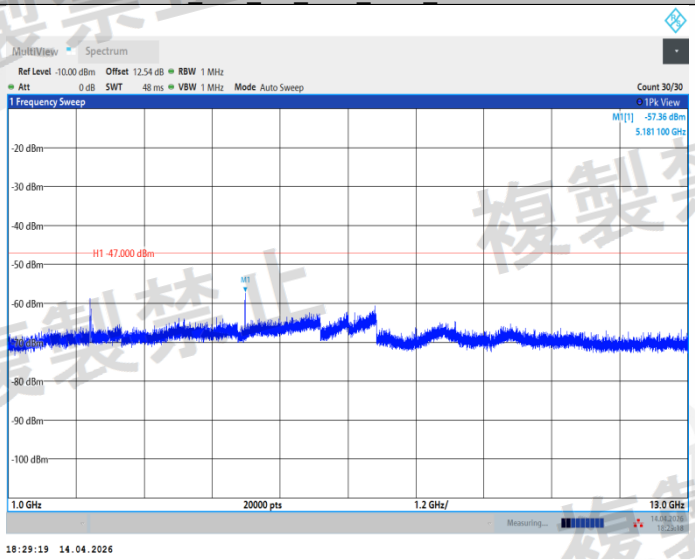
| TestCondition | TestMode | Antenna | Freq(MHz) | Freq.Range [MHz] | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [nW] | Limit [nW] | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| NTNV | BLE_1M | Ant1 | 2402 | 30~1000 | 38.67 | -66.18 | ≤-54 | 0.24099 | ≤4 | PASS |
| | | | | 1000~13000 | 5181.10 | -57.36 | ≤-47 | 1.83654 | ≤20 | PASS |
| | | Ant2 | 2402 | 30~1000 | 60.61 | -64.91 | ≤-54 | 0.32285 | ≤4 | PASS |
| | | | | 1000~13000 | 2402.50 | -58.80 | ≤-47 | 1.31826 | ≤20 | PASS |
| | | Ant1 | 2440 | 30~1000 | 44.97 | -65.75 | ≤-54 | 0.26607 | ≤4 | PASS |
| | | | | 1000~13000 | 6976.90 | -62.05 | ≤-47 | 0.62373 | ≤20 | PASS |
| | | Ant2 | 2440 | 30~1000 | 67.28 | -65.98 | ≤-54 | 0.25235 | ≤4 | PASS |
| | | | | 1000~13000 | 2402.50 | -57.42 | ≤-47 | 1.81134 | ≤20 | PASS |
| | | Ant1 | 2480 | 30~1000 | 56.85 | -65.92 | ≤-54 | 0.25586 | ≤4 | PASS |
| | | | | 1000~13000 | 7497.10 | -61.78 | ≤-47 | 0.66374 | ≤20 | PASS |
| | | Ant2 | 2480 | 30~1000 | 33.33 | -65.56 | ≤-54 | 0.27797 | ≤4 | PASS |
| | | | | 1000~13000 | 2401.90 | -59.14 | ≤-47 | 1.21899 | ≤20 | PASS |
| | BLE_2M | Ant1 | 2404 | 30~1000 | 39.64 | -66.55 | ≤-54 | 0.22131 | ≤4 | PASS |
| | | | | 1000~13000 | 7446.10 | -61.36 | ≤-47 | 0.73114 | ≤20 | PASS |
| | | Ant2 | 2404 | 30~1000 | 60.61 | -65.04 | ≤-54 | 0.31333 | ≤4 | PASS |
| | | | | 1000~13000 | 6504.70 | -61.33 | ≤-47 | 0.73621 | ≤20 | PASS |
| | | Ant1 | 2440 | 30~1000 | 36.73 | -66.27 | ≤-54 | 0.23605 | ≤4 | PASS |
| | | | | 1000~13000 | 2458.30 | -59.05 | ≤-47 | 1.24451 | ≤20 | PASS |
| | | Ant2 | 2440 | 30~1000 | 47.03 | -66.42 | ≤-54 | 0.22803 | ≤4 | PASS |
| | | | | 1000~13000 | 7476.10 | -60.80 | ≤-47 | 0.83176 | ≤20 | PASS |
| | | Ant1 | 2478 | 30~1000 | 67.28 | -65.86 | ≤-54 | 0.25942 | ≤4 | PASS |
| | | | | 1000~13000 | 7450.90 | -60.76 | ≤-47 | 0.83946 | ≤20 | PASS |
| | | Ant2 | 2478 | 30~1000 | 299.32 | -66.18 | ≤-54 | 0.24099 | ≤4 | PASS |
| | | | | 1000~13000 | 7487.50 | -61.49 | ≤-47 | 0.70958 | ≤20 | PASS |

## 8.5. Test graphs

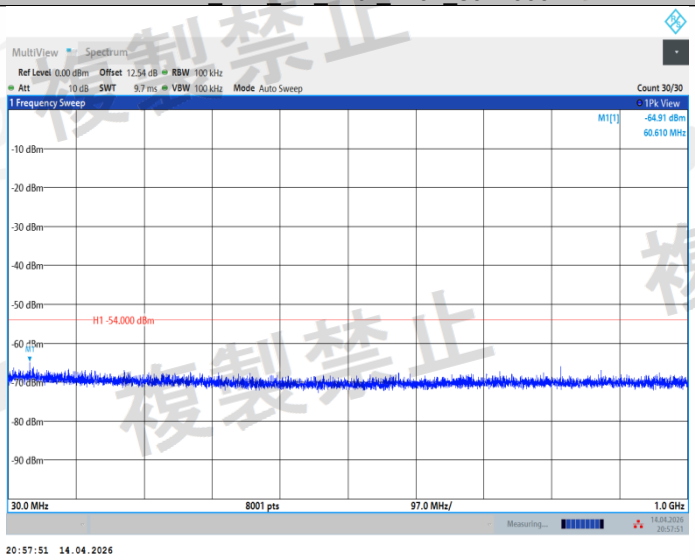
NTNV_BLE_1M_Ant1_2402_30~1000



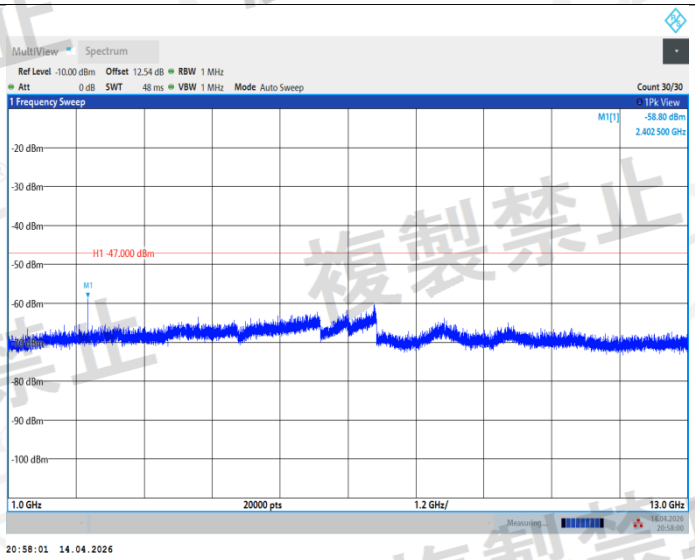

NTNV_BLE_1M_Ant1_2402_1000~13000



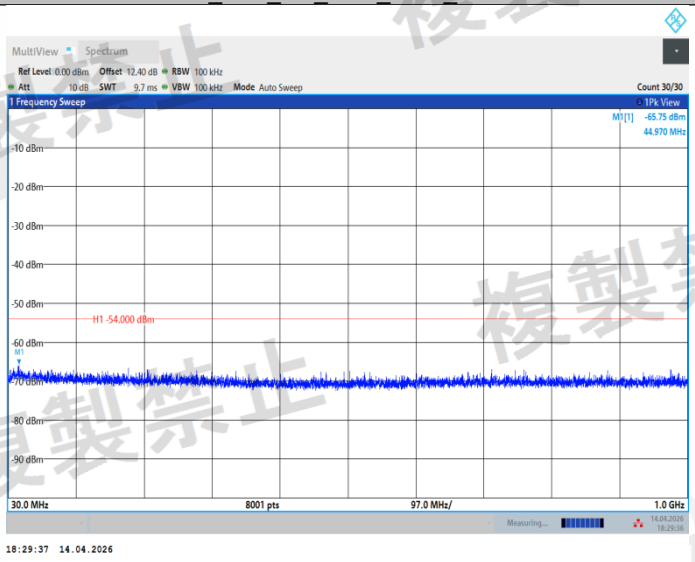

NTNV_BLE_1M_Ant2_2402_30~1000



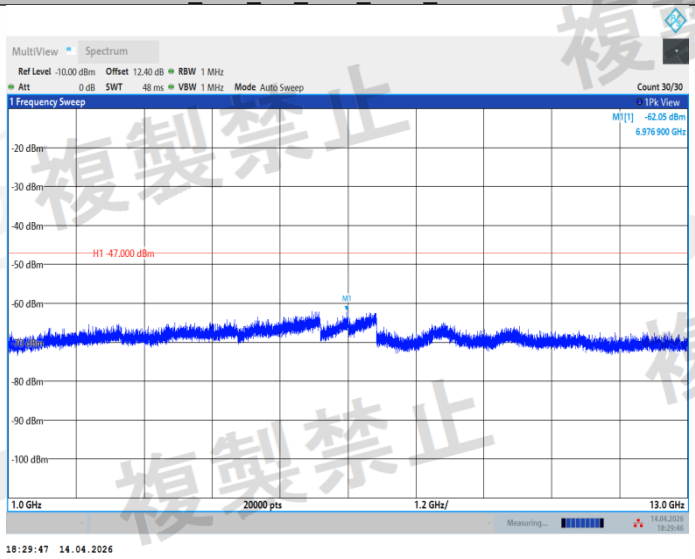

NTNV_BLE_1M_Ant2_2402_1000~13000



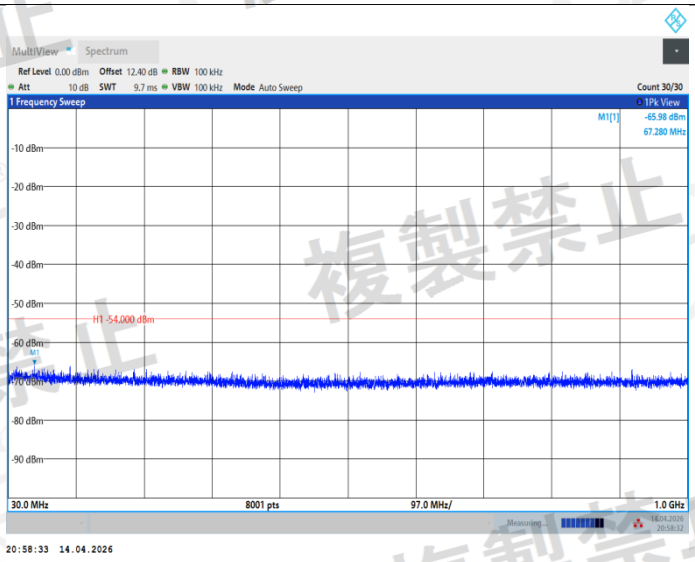

NTNV_BLE_1M_Ant1_2440_30~1000



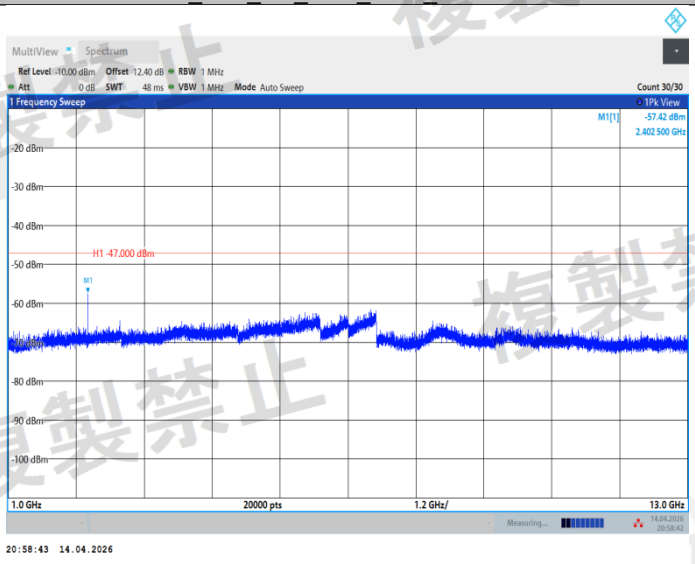

NTNV_BLE_1M_Ant1_2440_1000~13000



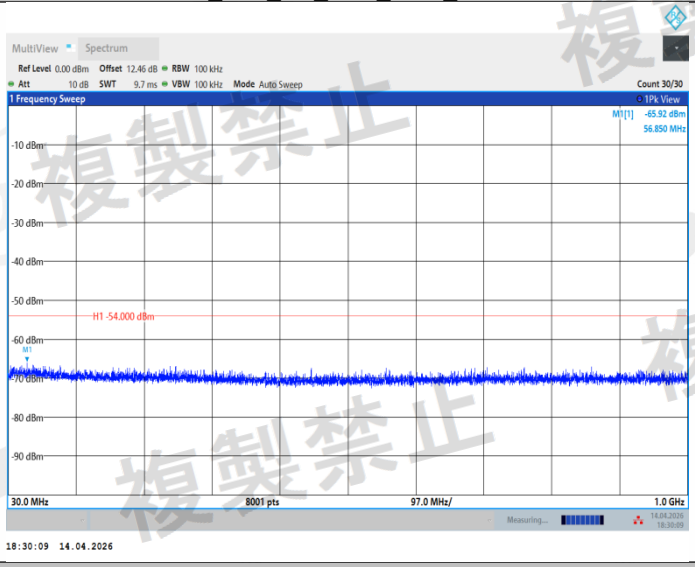

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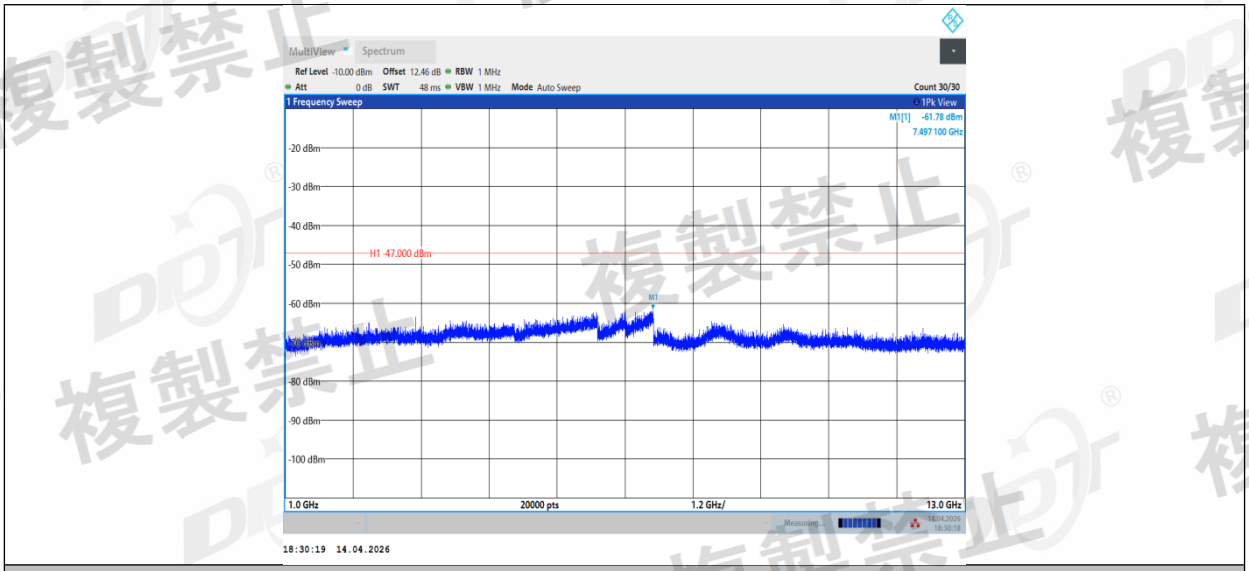

NTNV_BLE_1M_Ant2_2440_1000~13000



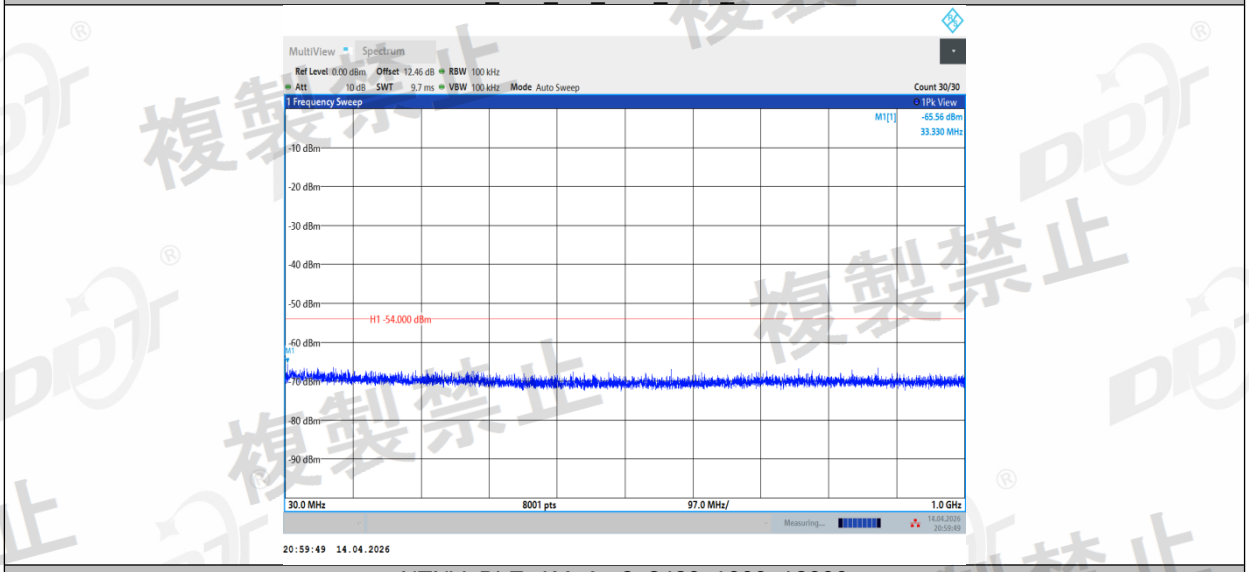

NTNV_BLE_1M_Ant1_2480_30~1000



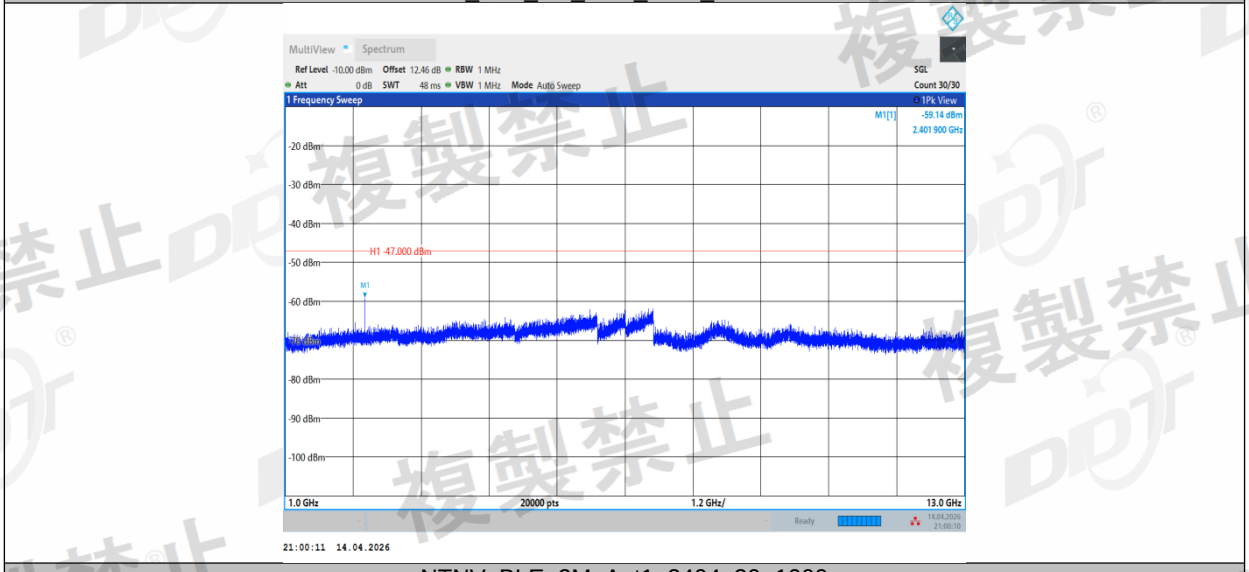

NTNV_BLE_1M_Ant1_2480_1000~13000



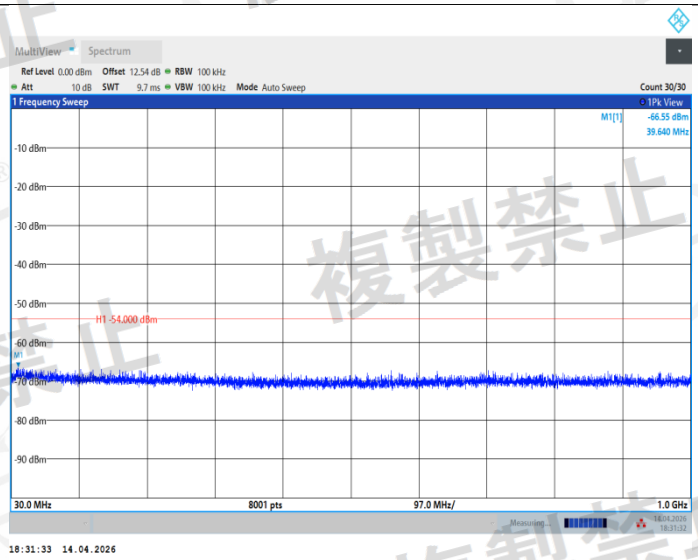

NTNV_BLE_1M_Ant2_2480_30~1000



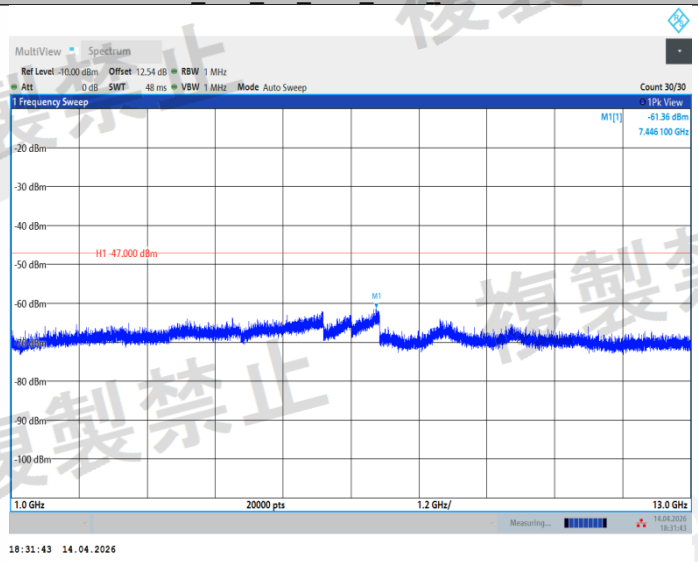

NTNV_BLE_1M_Ant2_2480_1000~13000



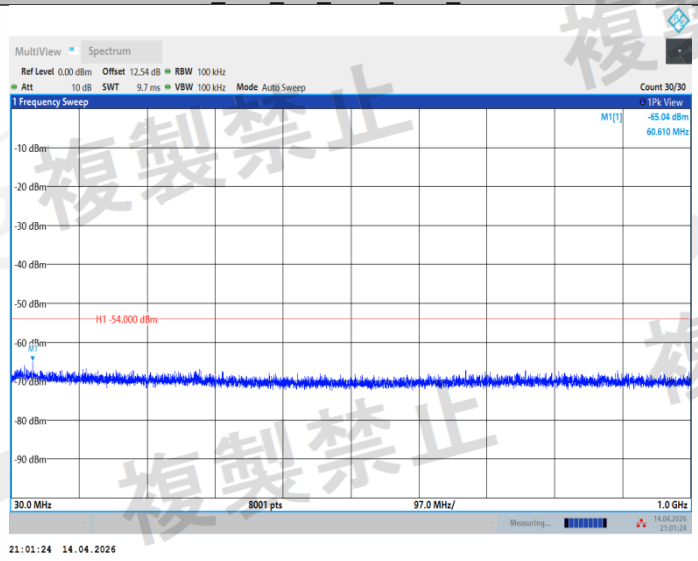

NTNV_BLE_2M_Ant1_2404_30~1000



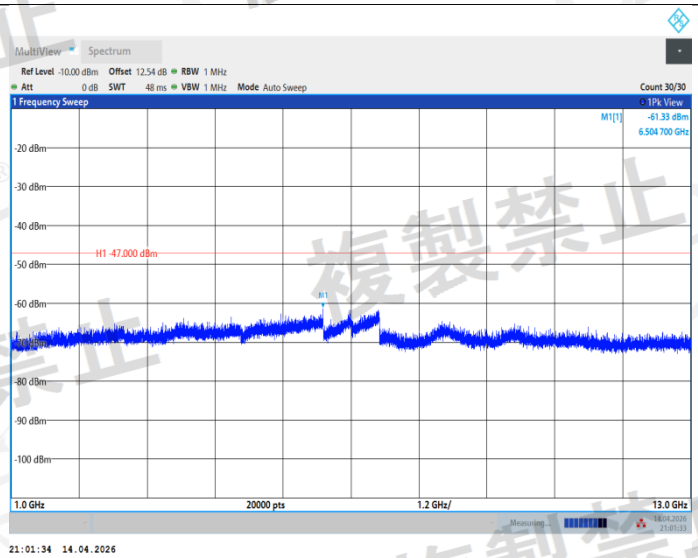

NTNV_BLE_2M_Ant1_2404_1000~13000



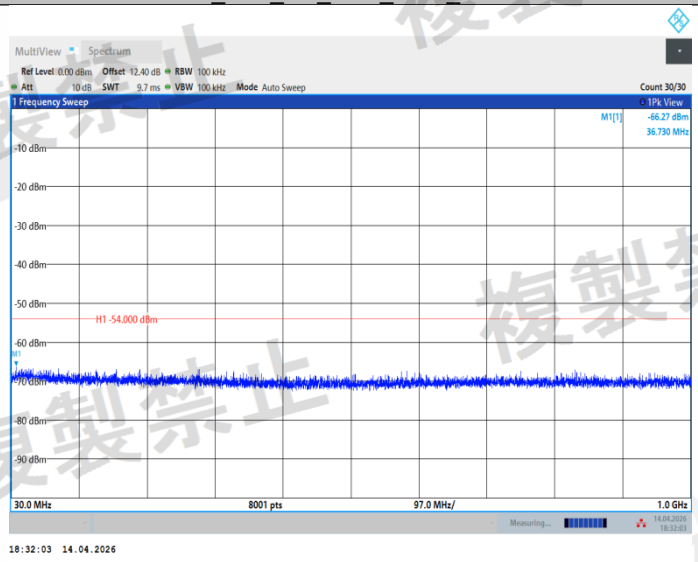

NTNV_BLE_2M_Ant2_2404_30~1000



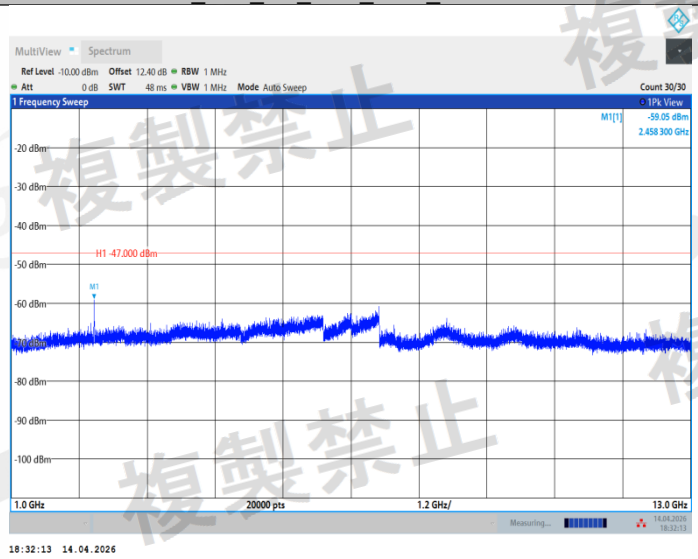

NTNV_BLE_2M_Ant2_2404_1000~13000



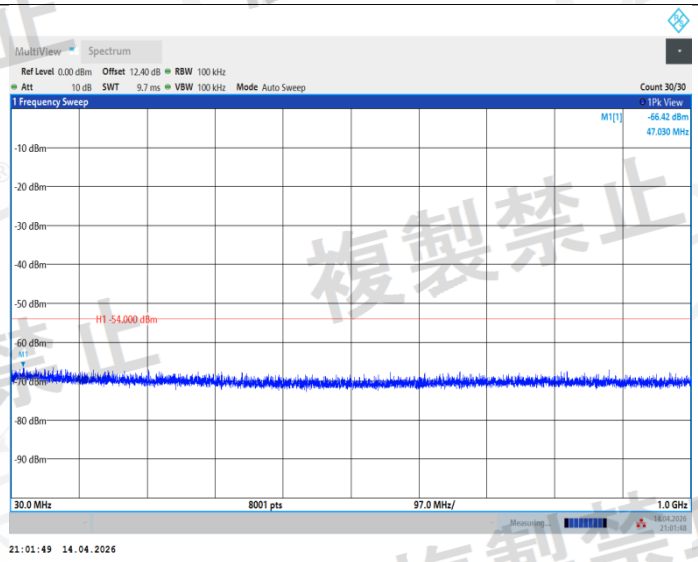

NTNV_BLE_2M_Ant1_2440_30~1000



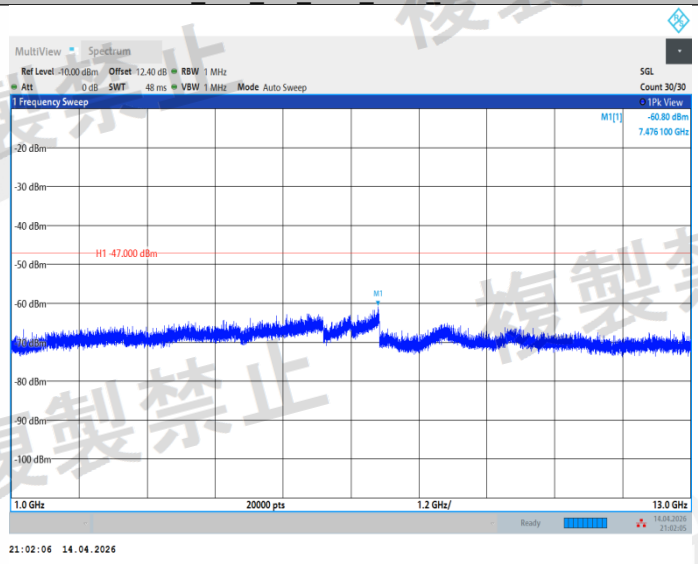

NTNV_BLE_2M_Ant1_2440_1000~13000



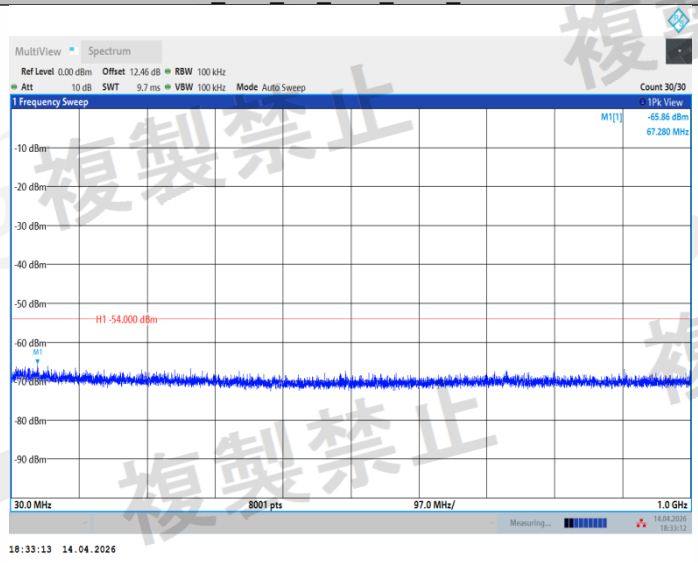

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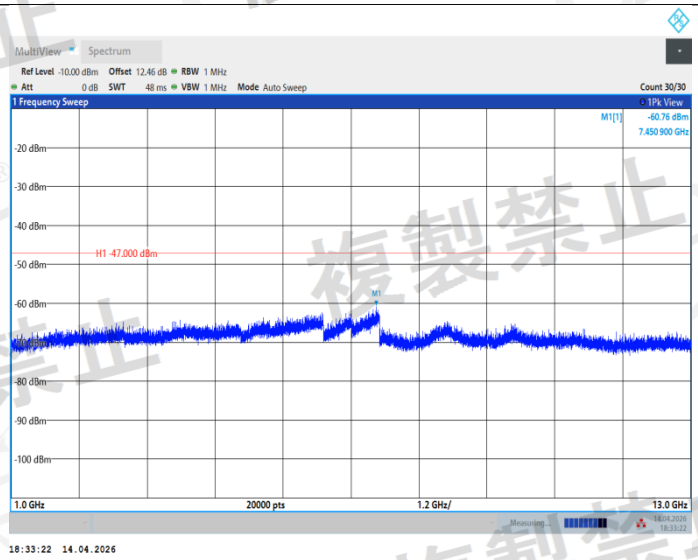

NTNV_BLE_2M_Ant2_2440_1000~13000



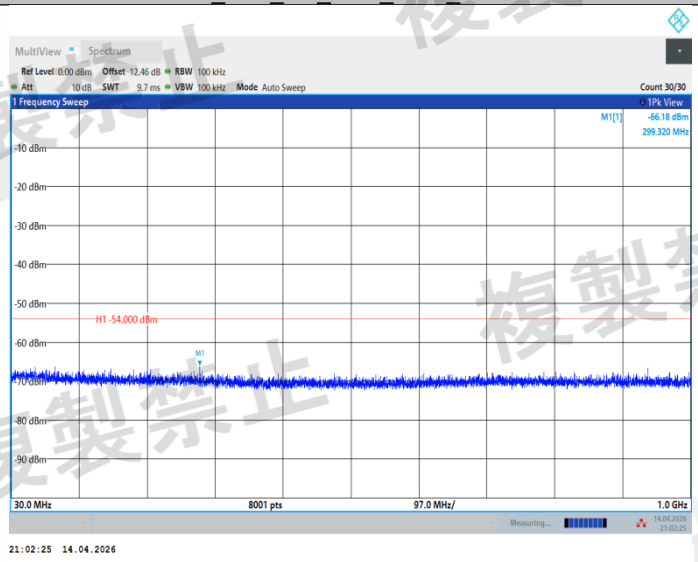

NTNV_BLE_2M_Ant1_2478_30~1000



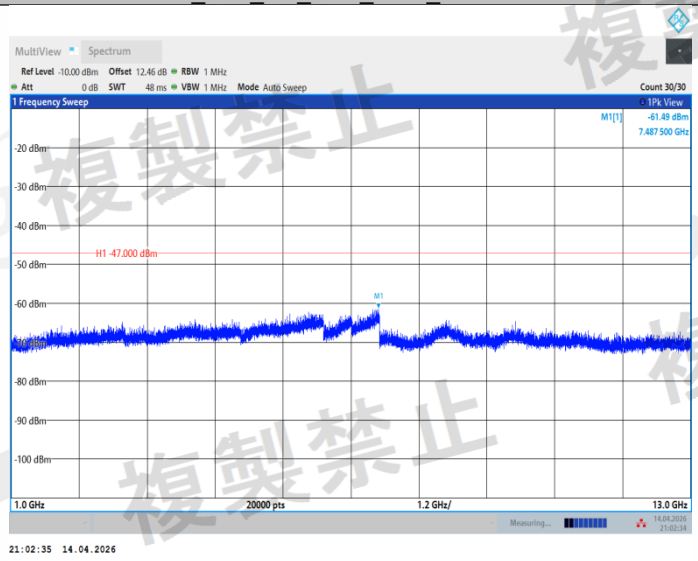

NTNV_BLE_2M_Ant1_2478_1000~13000




NTNV_BLE_2M_Ant2_2478_30~1000




NTNV_BLE_2M_Ant2_2478_1000~13000



# 9. Interference Prevention Function

## 9.1. Measurement system diagram

1) When transmitting identification code




2) Condition of measuring instrument
Demodulator must be able to demodulate the transmitting signal emitted by test equipment and to indicate the identification code.
3) Condition of test equipment the mode of normal use.

## 9.2. Measuring operation procedure

When test equipment has the function to transmit identification code automatically:
A) Transmit the predetermined identification code from test equipment.
B) Confirm the transmitted identification code by demodulator.

## 9.3. Test result: The unit does meet the requirements.

Pass

EUT Mac: 40:ED:98:1E:82:05

# 10. Test Setup Photograph



## 11. Photos of the EUT

Please refer to DDT-Q25103113-1E appendix I

----------End Report----------