



## RADIO TEST REPORT

|                         |   |                                                                                                                                                                                                                                                                                              |
|-------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant               | : | Guangzhou Chuang Rui Automobile Electric Appliance Co., Ltd.                                                                                                                                                                                                                                 |
| Address of Applicant    | : | NO.8 Shenshan East Road Baiyun District,<br>Guangzhou City, 510460, Guangdong, P.R. China                                                                                                                                                                                                    |
| Manufacturer            | : | Guangzhou Chuang Rui Automobile Electric Appliance Co., Ltd.                                                                                                                                                                                                                                 |
| Address of Manufacturer | : | NO.8 Shenshan East Road Baiyun District,<br>Guangzhou City, 510460, Guangdong, P.R. China                                                                                                                                                                                                    |
| Equipment under Test    | : | Meter                                                                                                                                                                                                                                                                                        |
| FCC Model No.           | : | 6WX0-20, 6WW9-B6                                                                                                                                                                                                                                                                             |
| FCC ID                  | : | 2BTEP-6WX020                                                                                                                                                                                                                                                                                 |
| IC                      | : | 34894-6WX020                                                                                                                                                                                                                                                                                 |
| HVIN                    | : | 6WX0-20                                                                                                                                                                                                                                                                                      |
| FVIN                    | : | 6WX0-20, 6WW9-B6                                                                                                                                                                                                                                                                             |
| Test Standard(s)        | : | FCC Rules and Regulations Part 15 Subpart C,<br>ANSI C63 10-2020+Cor.1-2023+C63.10a-<br>2024+Errata to C63.10a-2024,<br>RSS-247 Issue 4 July 24, 2025,<br>RSS-Gen Issue 5, Apr. 2018, Amendment 2<br>(February 2021),<br>ANSI C63 10-2020+Cor.1-2023+C63.10a-<br>2024+Errata to C63.10a-2024 |
| Report No.              | : | DDT-RE25072134-1E06                                                                                                                                                                                                                                                                          |
| Issue Date              | : | 2026/09/23                                                                                                                                                                                                                                                                                   |
| Issue By                | : | Guangdong Dongdian Testing Service Co., Ltd.<br>Unit 2, Building 1, No. 17, Zongbu 2nd Road,<br>Songshan Lake Park, Dongguan, Guangdong, China,<br>523808                                                                                                                                    |

# REPORT

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Test Report Declare

|                         |   |                                                                                        |
|-------------------------|---|----------------------------------------------------------------------------------------|
| Applicant               | : | Guangzhou Chuang Rui Automobile Electric Appliance Co., Ltd.                           |
| Address of Applicant    | : | NO.8 Shenshan East Road Baiyun District, Guangzhou City, 510460, Guangdong, P.R. China |
| Equipment under Test    | : | Meter                                                                                  |
| FCC Model No.           | : | 6WX0-20, 6WW9-B6                                                                       |
| HVIN                    | : | 6WX0-20                                                                                |
| FVIN                    | : | 6WX0-20, 6WW9-B6                                                                       |
| Manufacturer            | : | Guangzhou Chuang Rui Automobile Electric Appliance Co., Ltd.                           |
| Address of Manufacturer | : | NO.8 Shenshan East Road Baiyun District, Guangzhou City, 510460, Guangdong, P.R. China |

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C,  
ANSI C63 10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024,  
RSS-247 Issue 4 July 24, 2025,  
RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021),  
ANSI C63 10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024

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-RE25072134-1E06 |               |                         |
| Date of Receipt: | 2025/07/30          | Date of Test: | 2025/10/15 - 2025/11/01 |

|                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Created: Jacky Huang                                                                | Reviewed: Johnson Huang                                                             | Approved: Ella Gong                                                                   |
|  |  |  |
| 2025/11/16                                                                          | 2026/09/23                                                                          | 2026/09/23                                                                            |

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    | 2026/09/23 | Ella Gong |
|         |                  |            |           |

## 1. Summary of Test Results

| No.                                                                                                                                              | Test Parameter                   | Clause No.                                                                                                                                         | Condition | Result |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|
| 1                                                                                                                                                | 6 dB Bandwidth and 99% Bandwidth | 47 CFR Part 15 15.247(a)(2),<br>RSS-247 clause 6.3.1,<br>RSS-Gen clause 6.7                                                                        | /         | Pass   |
| 2                                                                                                                                                | Peak Output Power                | 47 CFR Part 15 15.247(b)(3),<br>RSS-247 clause 6.3.2                                                                                               | /         | Pass   |
| 3                                                                                                                                                | Power Spectral Density           | 47 CFR Part 15 15.247(e),<br>RSS-247 clause 6.3.1                                                                                                  | /         | Pass   |
| 4                                                                                                                                                | RF Conducted Spurious Emissions  | 47 CFR Part 15 15.247(d),<br>RSS-247 clause 6.6                                                                                                    | /         | Pass   |
| 5                                                                                                                                                | Radiated Emission                | 47 CFR Part 15 15.205,<br>47 CFR Part 15 15.209,<br>47 CFR Part 15 15.247(d),<br>RSS-247 clause 6.6,<br>RSS-Gen clause 8.9,<br>RSS-Gen clause 8.10 | /         | Pass   |
| 6                                                                                                                                                | Band Edge Compliance             | 47 CFR Part 15 15.205,<br>47 CFR Part 15 15.209,<br>47 CFR Part 15 15.247(d),<br>RSS-247 clause 6.6,<br>RSS-Gen clause 8.9,<br>RSS-Gen clause 8.10 | /         | Pass   |
| 7                                                                                                                                                | Antenna Requirement              | 47 CFR Part 15 15.203,<br>RSS-Gen clause 6.8                                                                                                       | /         | Pass   |
| 8                                                                                                                                                | Power Line Conducted Emissions   | 47 CFR Part 15 15.207(a),<br>RSS-Gen clause 8.8                                                                                                    | /         | N/A    |
| 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                   | : | Meter                                                               |
| FCC Model Number           | : | 6WX0-20, 6WW9-B6                                                    |
| FVIN                       | : | 6WX0-20, 6WW9-B6                                                    |
| HVIN                       | : | 6WX0-20                                                             |
| Difference of model number | : | The difference is UI software function. So, choose 6WX0-20 to test. |
| EUT Function Description   | : | Please reference user manual of this device                         |
| Power Supply               | : | DC 12V                                                              |
| Antenna Type               | : | PCB antenna                                                         |
| Max Antenna Gain (dBi)     | : | 3.39                                                                |

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.

## 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: RTLBTAPP.exe

The test software was used to control EUT work in Continuous Tx 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) |
| BLE 1M                                                | Default          | CH0     | 2402            |
|                                                       | Default          | CH19    | 2440            |

|        |         |      |      |
|--------|---------|------|------|
|        | Default | CH39 | 2480 |
| BLE 2M | Default | CH1  | 2404 |
|        | Default | CH19 | 2440 |
|        | Default | CH38 | 2478 |

## 2.5. Deviations of test standard

No deviation.

## 2.6. Test environment conditions

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

|                    |                   |
|--------------------|-------------------|
| Temperature range: | +15°C to +35 °C   |
| Humidity range:    | 20% to 75%        |
| Pressure range:    | 86 kPa to 106 kPa |

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](mailto: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

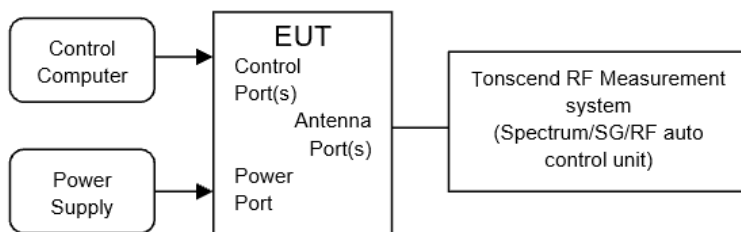
| Test Item                                                                                                                                     | Uncertainty                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Bandwidth                                                                                                                                     | 1.1%                                                   |
| Peak Output Power (Conducted) (Spectrum analyzer)                                                                                             | 0.86 dB ( $10 \text{ MHz} \leq f < 3.6 \text{ GHz}$ ); |
|                                                                                                                                               | 1.38 dB ( $3.6 \text{ GHz} \leq f < 8 \text{ GHz}$ )   |
| Peak Output Power (Conducted) (Power Sensor)                                                                                                  | 0.74 dB                                                |
| Power Spectral Density                                                                                                                        | 0.74 dB ( $10 \text{ MHz} \leq f < 3.6 \text{ GHz}$ ); |
|                                                                                                                                               | 1.38 dB ( $3.6 \text{ GHz} \leq f < 8 \text{ GHz}$ )   |
| Frequencies Stability                                                                                                                         | $6.7 \times 10^{-8}$ (Antenna couple method)           |
|                                                                                                                                               | $5.5 \times 10^{-8}$ (Conducted method)                |
| Conducted spurious emissions                                                                                                                  | 0.86 dB ( $10 \text{ MHz} \leq f < 3.6 \text{ GHz}$ ); |
|                                                                                                                                               | 1.40 dB ( $3.6 \text{ GHz} \leq f < 8 \text{ GHz}$ )   |
|                                                                                                                                               | 1.66 dB ( $8 \text{ GHz} \leq f < 26.5 \text{ GHz}$ )  |
| Uncertainty for radio frequency (RBW < 20 kHz)                                                                                                | $3 \times 10^{-8}$                                     |
| Temperature                                                                                                                                   | 0.4 °C                                                 |
| Humidity                                                                                                                                      | 2 %                                                    |
| Uncertainty for Radiation Emission test<br>(9 kHz – 30 MHz)                                                                                   | 3.44 dB                                                |
| Uncertainty for Radiation Emission test<br>(30 MHz - 1 GHz)                                                                                   | 4.70 dB (Antenna Polarize: V)                          |
|                                                                                                                                               | 4.84 dB (Antenna Polarize: H)                          |
| Uncertainty for Radiation Emission test<br>(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 Conductive Test

| Equipment                                     | Manufacturer | Model No.   | Serial Number | Due Date   | Cal. Interval |
|-----------------------------------------------|--------------|-------------|---------------|------------|---------------|
| ☑RF Connected Test (RF Measurement System 4#) |              |             |               |            |               |
| Signal &Spectrum Analyzer                     | R&S          | FSV3044     | 101173        | 2026/03/28 | 1 Year        |
| Wideband Radio Communication Tester           | R&S          | CMW500      | 168801        | 2026/03/28 | 1 Year        |
| MXG Vector Signal Generator                   | Agilent      | N5182A      | MY48180737    | 2026/03/28 | 1 Year        |
| PSG Vector Signal Generator                   | Agilent      | E8267D      | US49060192    | 2026/08/10 | 1 Year        |
| RF Control Unit                               | Tonscend     | JS0806-2    | 21I8060485    | 2026/03/28 | 1 Year        |
| TEMP&HUMI Programmable Chamber                | ZHIXIANG     | ZXGDJS-150L | ZX170110-A    | 2026/03/28 | 1 Year        |
| Test Software                                 | Tonscend     | JS1120-3    | Ver.3.2.22    | N/A        | /             |

## 4. 6 dB Bandwidth

### 4.1. Block diagram of test setup



### 4.2. Limits

For direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz

### 4.3. Test procedure

- (1) The test according to ANSI C63.10 clause 11.8.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for 6 dB Bandwidth:

RBW: 100 kHz

VBW:  $\geq [3 \times \text{RBW}]$

Detector Mode: Peak

Sweep time: Auto

Trace mode Max hold

- (5) Allow the trace to stabilize, measure the 6 dB bandwidth of signal, and record the results in the report.

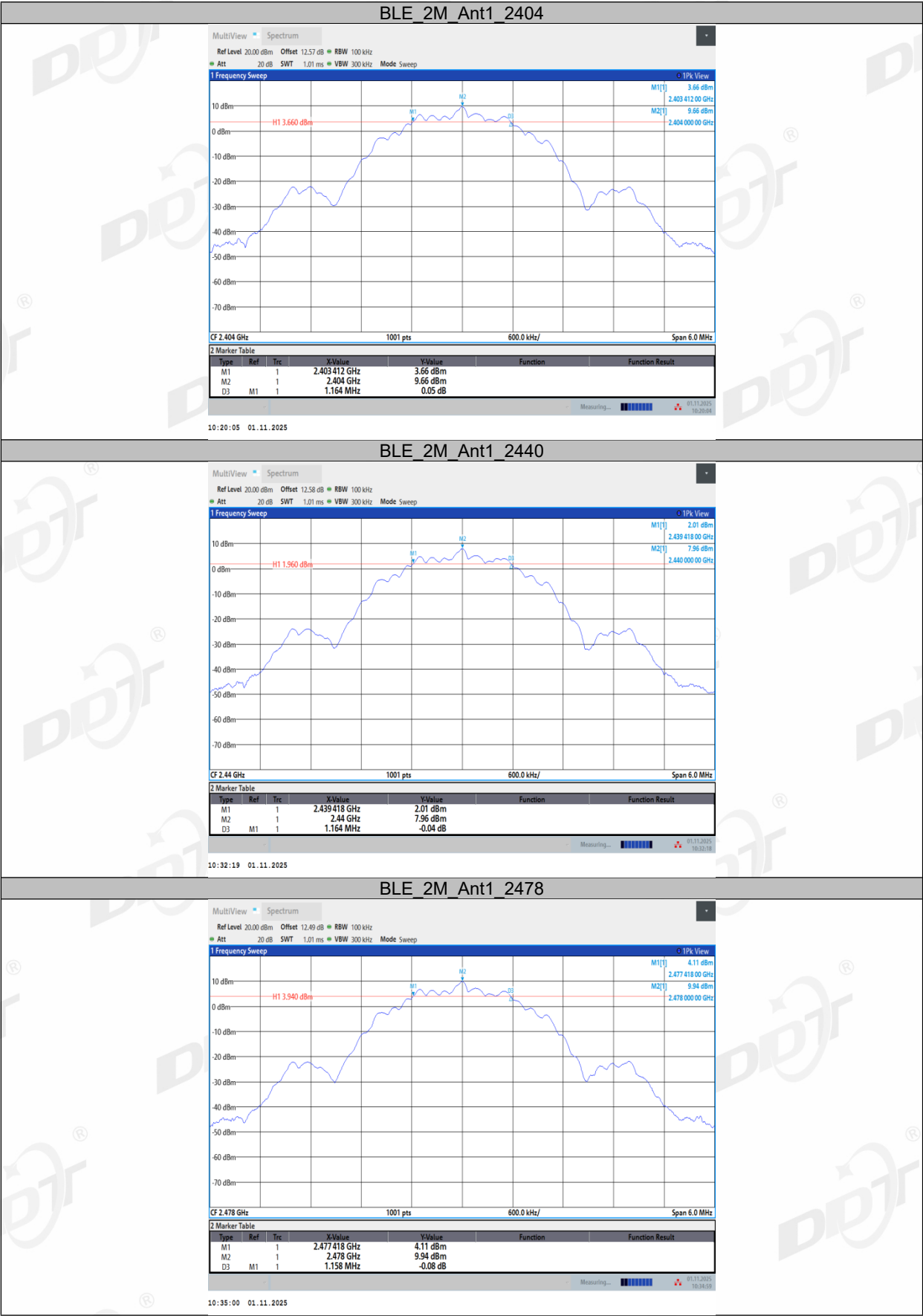
4.4. Test result

|                    |                |                |                          |
|--------------------|----------------|----------------|--------------------------|
| Test Engineer:     | Huang Yanwen   | Test Site:     | RF Measurement System 4# |
| Ambient Condition: | 27.2°C,38.9%RH | Test Date:     | 2025.11.01-2025.11.01    |
| Test Power Supply: | DC 12V         | Sample Number: | S25072134-005            |

| Test Mode | Antenna | Frequency [MHz] | DTS BW [MHz] | FL [MHz] | FH [MHz] | Limit [MHz] | Verdict |
|-----------|---------|-----------------|--------------|----------|----------|-------------|---------|
| BLE_1M    | Ant1    | 2402            | 0.68         | 2401.66  | 2402.33  | 0.5         | PASS    |
|           |         | 2440            | 0.67         | 2439.66  | 2440.33  | 0.5         | PASS    |
|           |         | 2480            | 0.67         | 2479.66  | 2480.33  | 0.5         | PASS    |
| BLE_2M    | Ant1    | 2404            | 1.16         | 2403.41  | 2404.58  | 0.5         | PASS    |
|           |         | 2440            | 1.16         | 2439.42  | 2440.58  | 0.5         | PASS    |
|           |         | 2478            | 1.16         | 2477.42  | 2478.58  | 0.5         | PASS    |

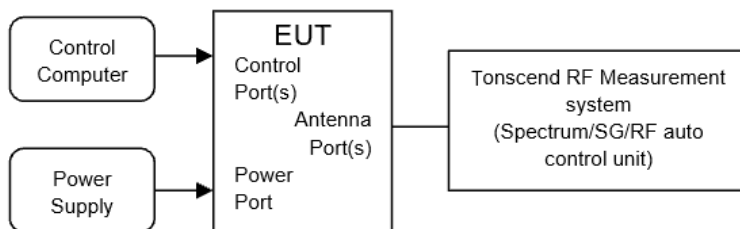
4.5. Test graphs





## 5. 99% Bandwidth

### 5.1. Block diagram of test setup



### 5.2. Limits

Just for Report.

### 5.3. Test procedure

- (1) The test according to ANSI C63.10 clause 6.9.3.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for the 99% Bandwidth:

RBW: 1% to 5% of the OBW

VBW: approximately three times RBW

Span: between 1.5 times and 5.0 times the OBW

Detector Mode: Peak

Sweep time: Auto

Trace mode: Max hold

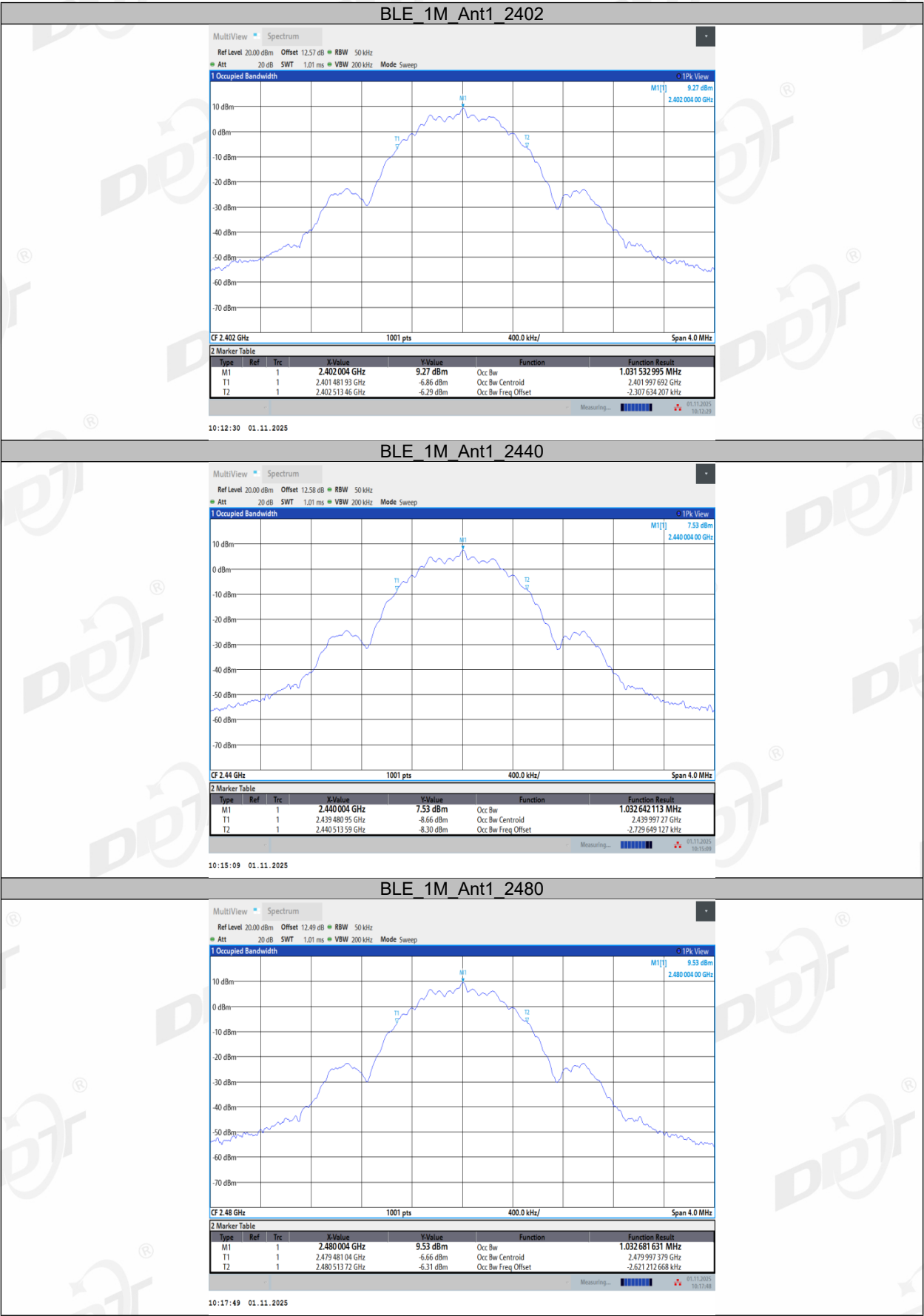
- (5) Allow the trace to stabilize, measure the 99% bandwidth of signal, and record the results in the report.

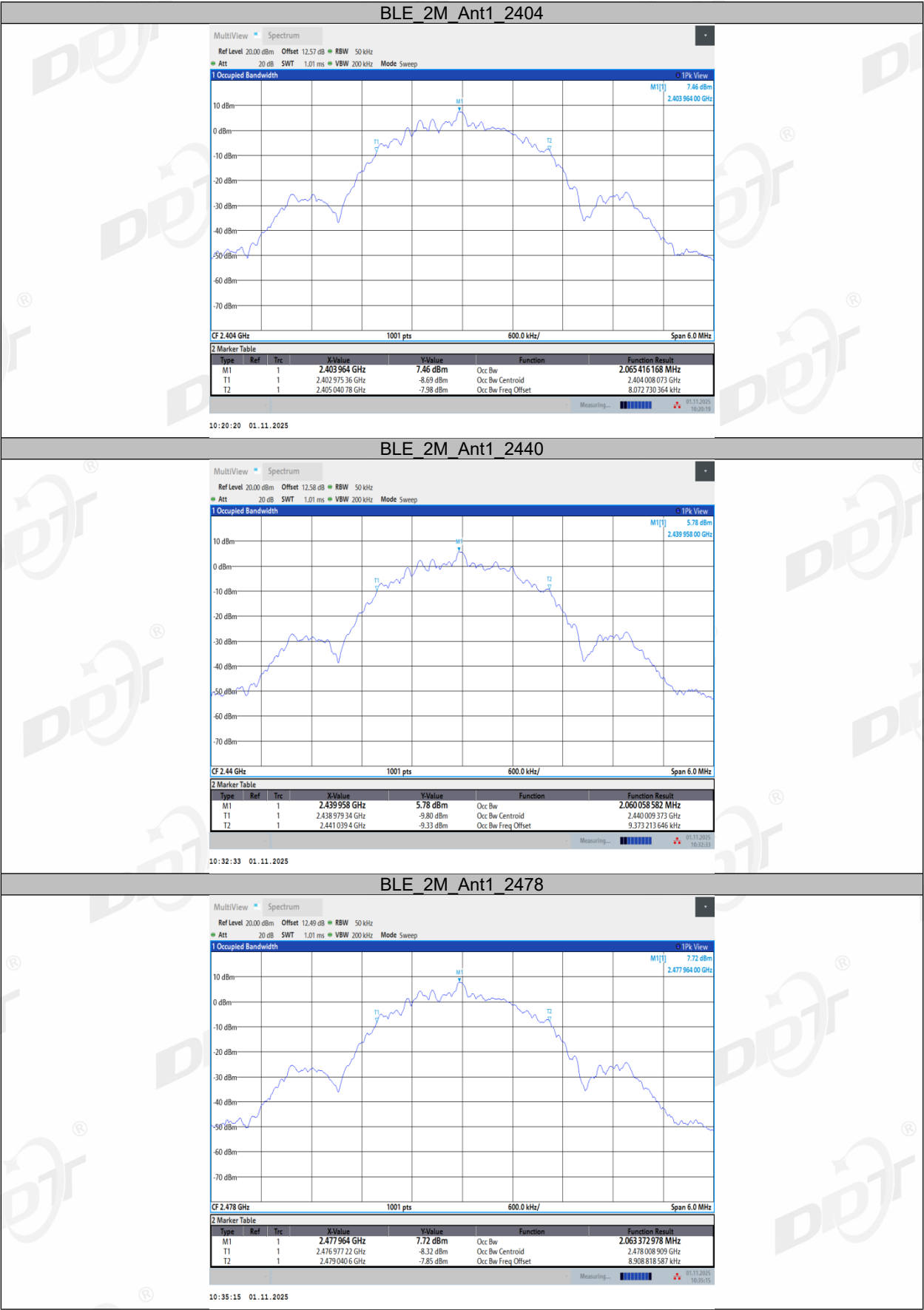
5.4. Test result

|                    |                 |                |                          |
|--------------------|-----------------|----------------|--------------------------|
| Test Engineer:     | Huang Yanwen    | Test Site:     | RF Measurement System 4# |
| Ambient Condition: | 27.2°C, 38.9%RH | Test Date:     | 2025.11.01-2025.11.01    |
| Test Power Supply: | DC 12V          | Sample Number: | S25072134-005            |

| Test Mode | Antenna | Frequency [MHz] | OCB [MHz] | FL [MHz]  | FH [MHz]  | Limit [MHz] | Verdict |
|-----------|---------|-----------------|-----------|-----------|-----------|-------------|---------|
| BLE_1M    | Ant1    | 2402            | 1.0315    | 2401.4819 | 2402.5135 | ---         | ---     |
|           |         | 2440            | 1.0326    | 2439.4809 | 2440.5136 | ---         | ---     |
|           |         | 2480            | 1.0327    | 2479.4810 | 2480.5137 | ---         | ---     |
| BLE_2M    | Ant1    | 2404            | 2.0654    | 2402.9754 | 2405.0408 | ---         | ---     |
|           |         | 2440            | 2.0601    | 2438.9793 | 2441.0394 | ---         | ---     |
|           |         | 2478            | 2.0634    | 2476.9772 | 2479.0406 | ---         | ---     |

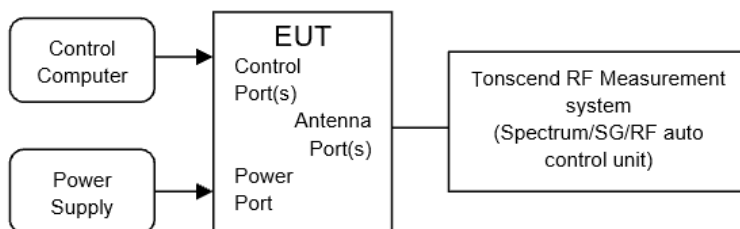
5.5. Test graphs





## 6. Maximum Peak Output Power

### 6.1. Block diagram of test setup



### 6.2. Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi, the e.i.r.p shall not exceed 4W.

### 6.3. Test procedure

- (1) The test according to ANSI C63.10 clause 11.9.1.1.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
- (4) Use the following spectrum analyzer settings for the maximum peak output power measurement:

RBW:  $\geq$ DTS bandwidth

VBW:  $\geq 3 \times$  RBW

Span:  $\geq 3 \times$  RBW

Detector Mode: Peak

Sweep time: Auto

Trace mode: Max hold

- (5) Allow the trace to stabilize, use peak marker function to determine the peak amplitude level.

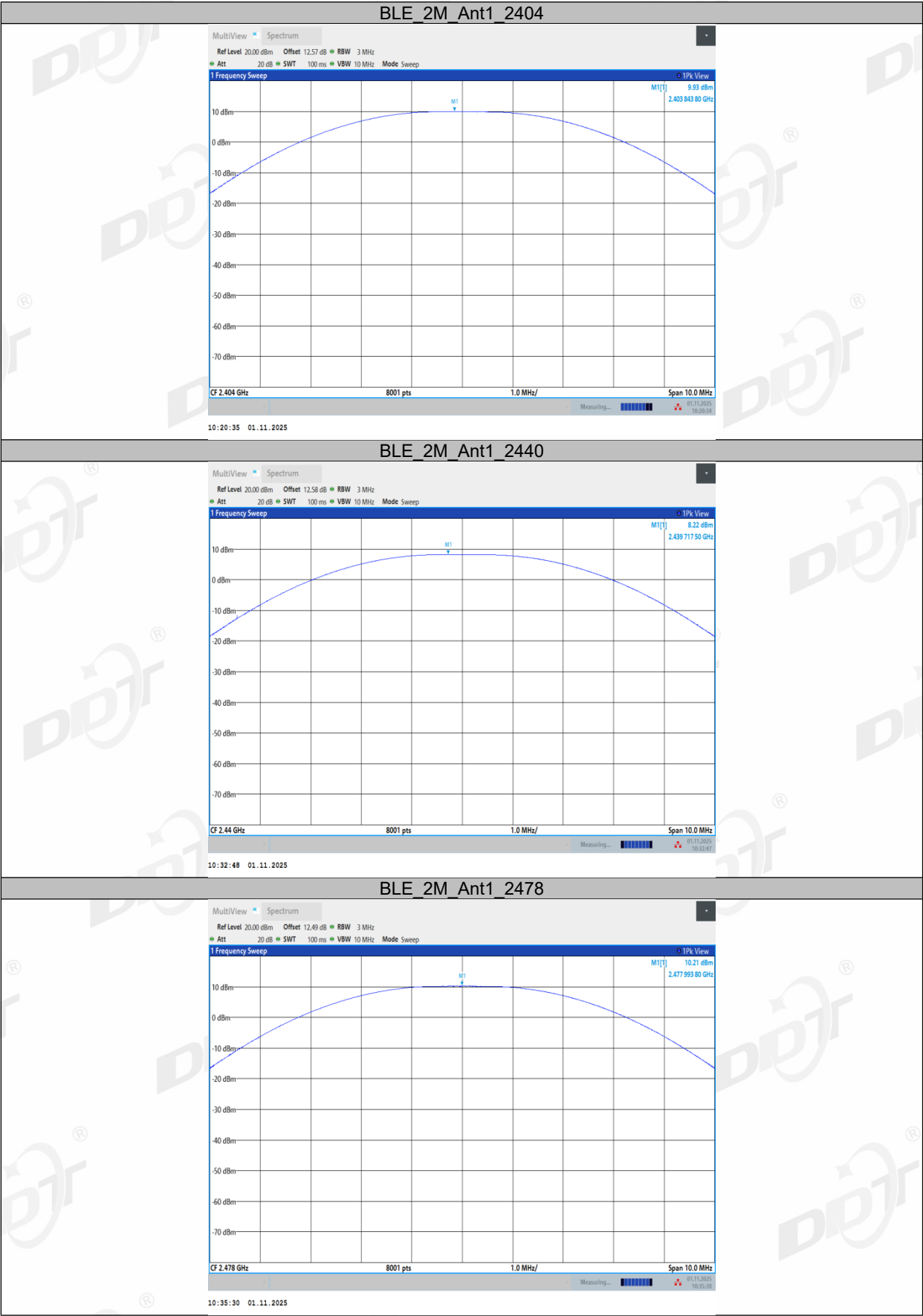
6.4. Test result

|                    |                 |                |                          |
|--------------------|-----------------|----------------|--------------------------|
| Test Engineer:     | Huang Yanwen    | Test Site:     | RF Measurement System 4# |
| Ambient Condition: | 27.2°C, 38.9%RH | Test Date:     | 2025.11.01-2025.11.01    |
| Test Power Supply: | DC 12V          | Sample Number: | S25072134-005            |

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power [dBm] | Conducted Limit [dBm] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|-----------|---------|-----------------|----------------------------|-----------------------|------------|------------------|---------|
| BLE_1M    | Ant1    | 2402            | 9.97                       | ≤30                   | 13.36      | ≤36              | PASS    |
|           |         | 2440            | 8.21                       | ≤30                   | 11.60      | ≤36              | PASS    |
|           |         | 2480            | 10.20                      | ≤30                   | 13.59      | ≤36              | PASS    |
| BLE_2M    | Ant1    | 2404            | 9.93                       | ≤30                   | 13.32      | ≤36              | PASS    |
|           |         | 2440            | 8.22                       | ≤30                   | 11.61      | ≤36              | PASS    |
|           |         | 2478            | 10.21                      | ≤30                   | 13.60      | ≤36              | PASS    |

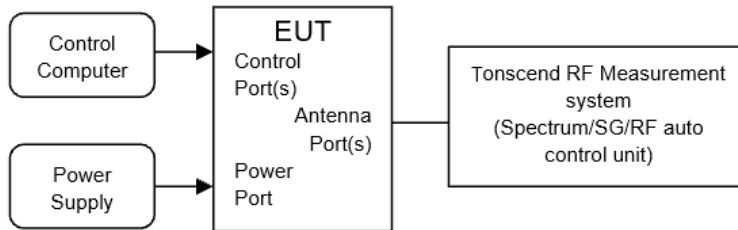
6.5. Test graphs





## 7. Power Spectral Density

### 7.1. Block diagram of test setup



### 7.2. Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### 7.3. Test procedure

- (1) The test according to ANSI C63.10 clause 11.10.2.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
- (4) Use the following spectrum analyzer settings for Power Spectral Density measurement:

Center frequency: DTS Channel center frequency

RBW:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$

VBW:  $\geq 3\text{RBW}$

Span: 1.5 times the DTS bandwidth

Detector Mode: Peak

Sweep time: Auto

Trace mode: Max hold

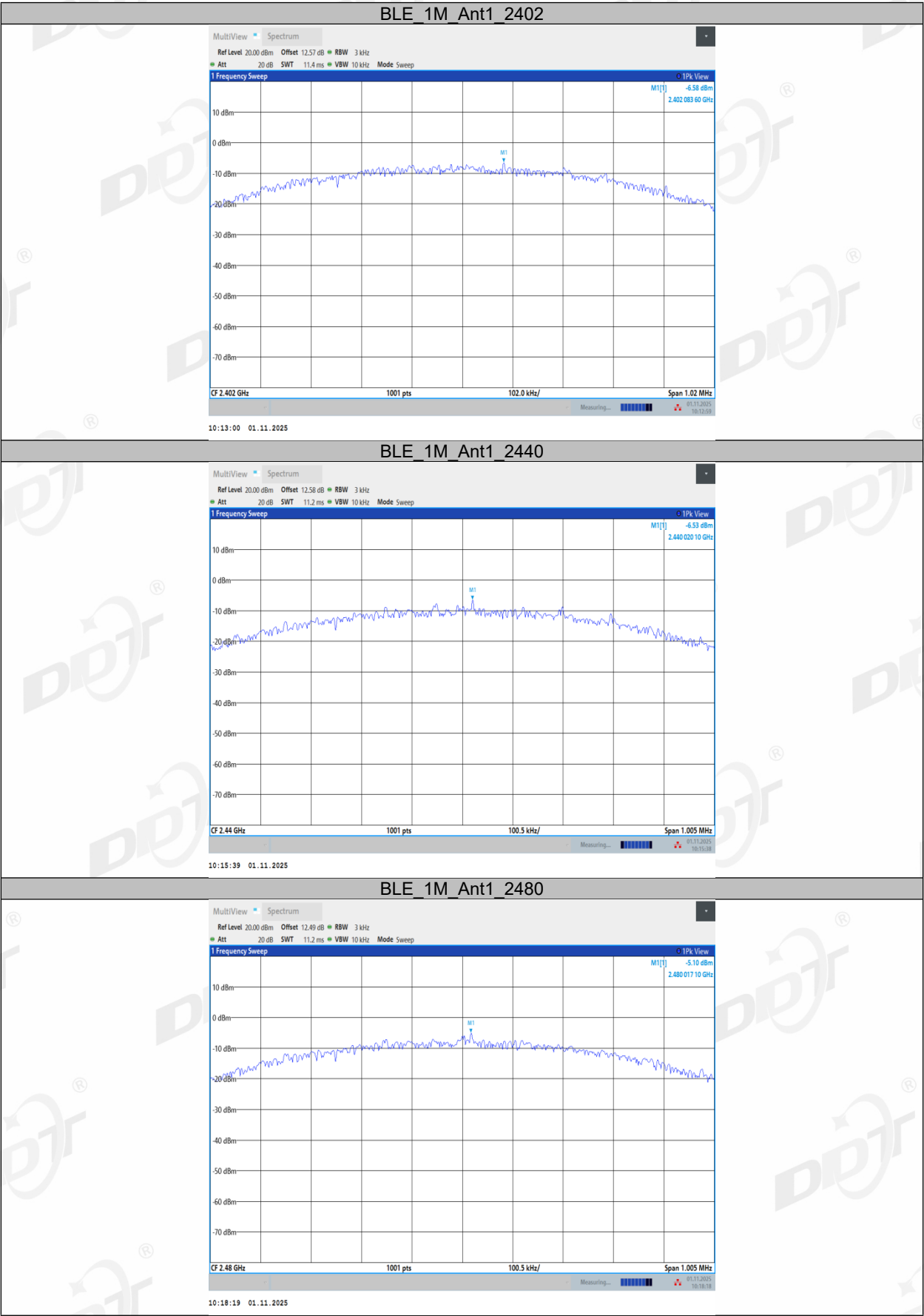
- (5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- (6) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

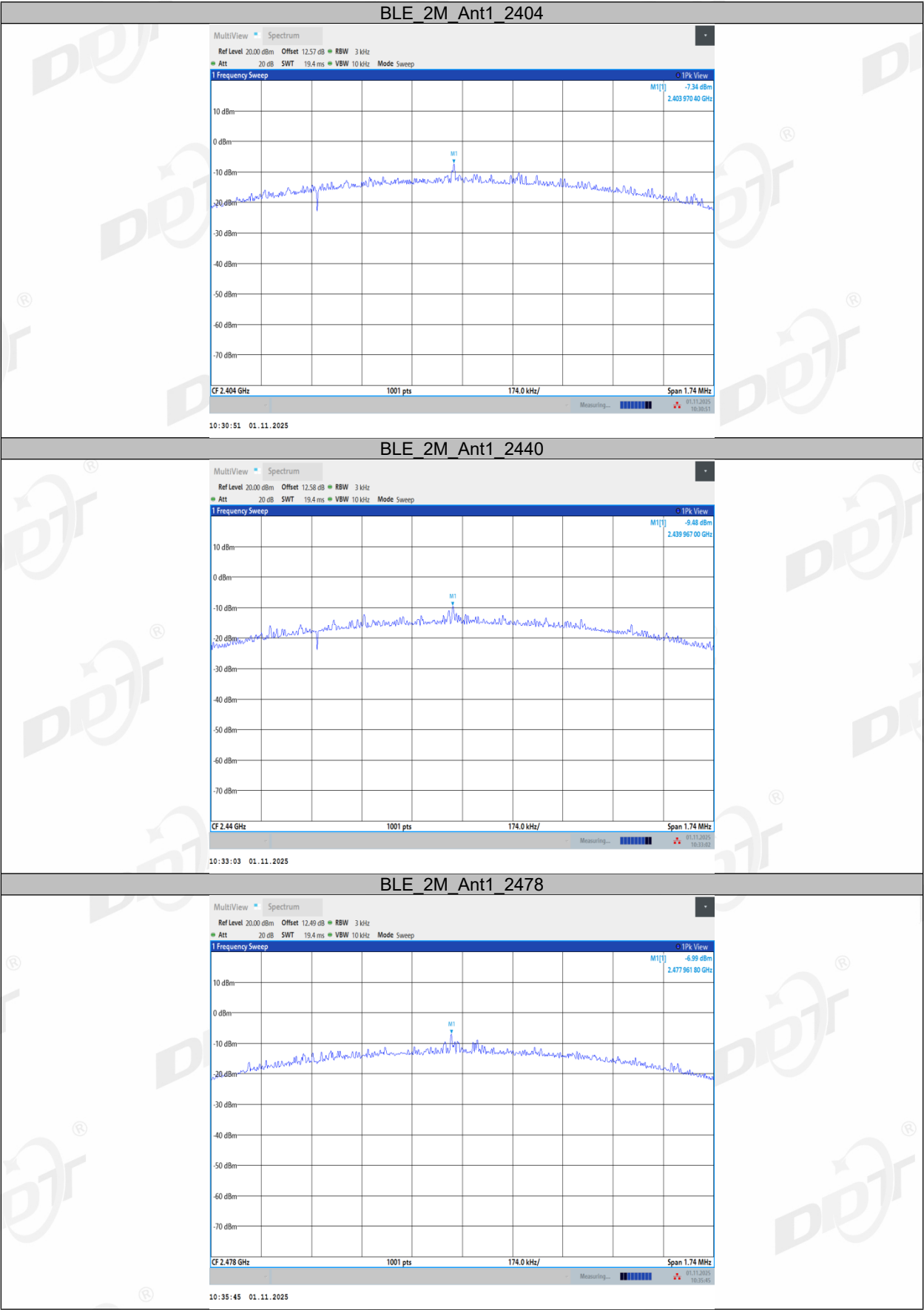
7.4. Test result

|                    |                 |                |                          |
|--------------------|-----------------|----------------|--------------------------|
| Test Engineer:     | Huang Yanwen    | Test Site:     | RF Measurement System 4# |
| Ambient Condition: | 27.2°C, 38.9%RH | Test Date:     | 2025.11.01-2025.11.01    |
| Test Power Supply: | DC 12V          | Sample Number: | S25072134-005            |

| Test Mode | Antenna | Frequency [MHz] | Result [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|---------|
| BLE_1M    | Ant1    | 2402            | -6.58             | ≤8.00            | PASS    |
|           |         | 2440            | -6.53             | ≤8.00            | PASS    |
|           |         | 2480            | -5.10             | ≤8.00            | PASS    |
| BLE_2M    | Ant1    | 2404            | -7.34             | ≤8.00            | PASS    |
|           |         | 2440            | -9.48             | ≤8.00            | PASS    |
|           |         | 2478            | -6.99             | ≤8.00            | PASS    |

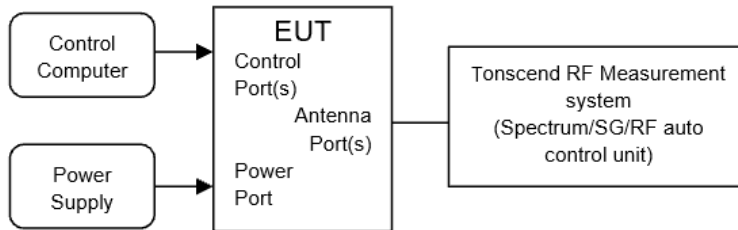
7.5. Test graphs





## 8. Band Edge Compliance (Conducted Method)

### 8.1. Block diagram of test setup



### 8.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

### 8.3. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Establish a reference level by using the following procedure:

|                |                                          |
|----------------|------------------------------------------|
| RBW:           | 100 kHz                                  |
| VBW:           | 300 kHz                                  |
| Span:          | Encompass frequency range to be measured |
| Detector Mode: | Peak                                     |
| Sweep time:    | Auto                                     |
| Trace mode:    | Max hold                                 |

- (3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- (4) Then mark the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

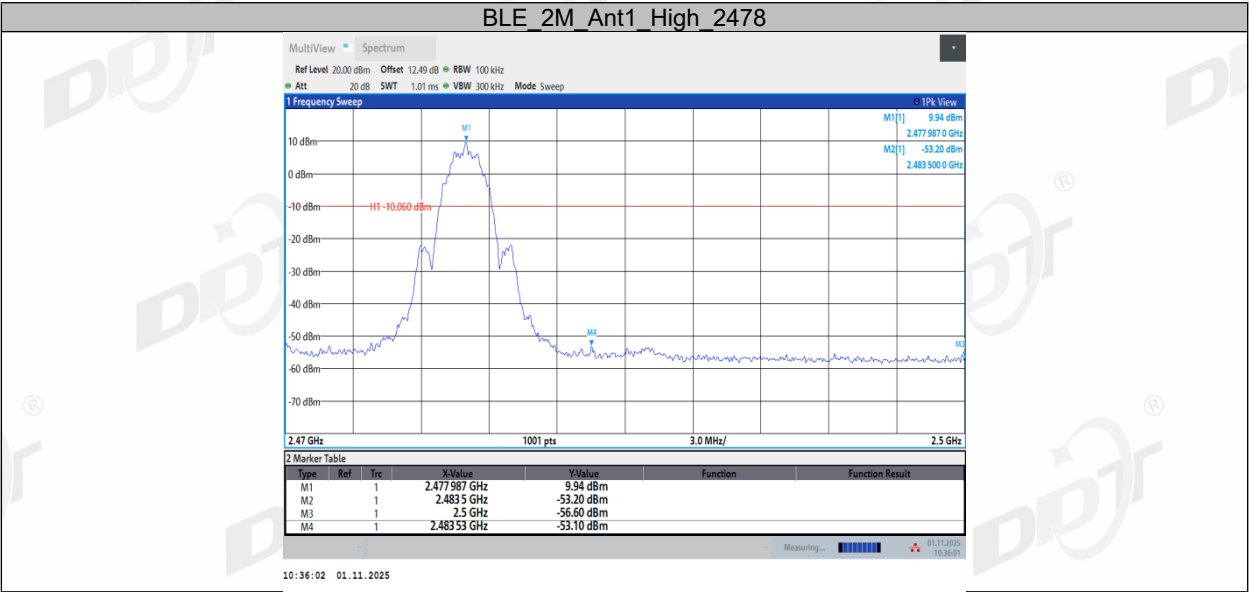
8.4. Test result

|                    |                 |                |                          |
|--------------------|-----------------|----------------|--------------------------|
| Test Engineer:     | Huang Yanwen    | Test Site:     | RF Measurement System 4# |
| Ambient Condition: | 27.2°C, 38.9%RH | Test Date:     | 2025.11.01-2025.11.01    |
| Test Power Supply: | DC 12V          | Sample Number: | S25072134-005            |

| Mode   | Frequency [MHz] | Measured Range        | Verdict |
|--------|-----------------|-----------------------|---------|
| BLE 1M | 2402            | 2.310 GHz - 2.410 GHz | Pass    |
|        | 2480            | 2.470 GHz - 2.500 GHz | Pass    |
| BLE 2M | 2404            | 2.310 GHz - 2.410 GHz | Pass    |
|        | 2478            | 2.470 GHz - 2.500 GHz | Pass    |

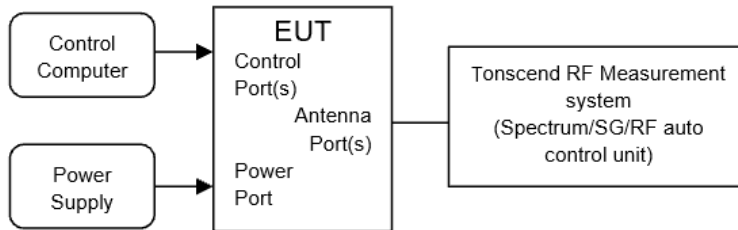
8.5. Test graphs





## 9. RF Conducted Spurious Emissions

### 9.1. Block diagram of test setup



### 9.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

### 9.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| Center frequency: | Test frequency                                                |
| RBW:              | 100 kHz                                                       |
| VBW:              | 300 kHz                                                       |
| Span:             | Wide enough to capture the peak level of the in-band emission |
| Detector Mode:    | Peak                                                          |
| Sweep time:       | Auto                                                          |
| Trace mode:       | Max hold                                                      |

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

|                               |                                          |
|-------------------------------|------------------------------------------|
| RBW:                          | 100 kHz                                  |
| VBW:                          | 300 kHz                                  |
| Span:                         | Encompass frequency range to be measured |
| Number of measurement points: | $\geq \text{Span/RBW}$                   |
| Detector Mode:                | Peak                                     |
| Sweep time:                   | Auto                                     |
| Trace mode:                   | Max hold                                 |

(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

9.4. Test result

|                    |                 |                |                          |
|--------------------|-----------------|----------------|--------------------------|
| Test Engineer:     | Huang Yanwen    | Test Site:     | RF Measurement System 4# |
| Ambient Condition: | 27.2°C, 38.9%RH | Test Date:     | 2025.11.01-2025.11.01    |
| Test Power Supply: | DC 12V          | Sample Number: | S25072134-005            |

| Mode   | Frequency [MHz] | Verdict |
|--------|-----------------|---------|
| BLE 1M | 2402            | Pass    |
|        | 2440            | Pass    |
|        | 2480            | Pass    |
| BLE 2M | 2404            | Pass    |
|        | 2440            | Pass    |
|        | 2478            | Pass    |

9.5. Test graphs

