



## RADIO TEST REPORT

|                         |   |                                                                                                                                                                                                                                                      |
|-------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant               | : | Harman International Industries, Inc.                                                                                                                                                                                                                |
| Address of Applicant    | : | 8500 Balboa Boulevard, Northridge, CA 91325<br>UNITED STATES                                                                                                                                                                                         |
| Manufacturer            | : | Harman International Industries, Inc.                                                                                                                                                                                                                |
| Address of Manufacturer | : | 8500 Balboa Boulevard, Northridge, CA 91325,<br>UNITED STATES                                                                                                                                                                                        |
| Equipment under Test    | : | BLUETOOTH HEADSET                                                                                                                                                                                                                                    |
| Model No.               | : | VIBE FLEX 3                                                                                                                                                                                                                                          |
| Trade mark              | : | JBL                                                                                                                                                                                                                                                  |
| FCC ID                  | : | APIJBLVFLEX3                                                                                                                                                                                                                                         |
| IC                      | : | 6132A-JBLVFLEX3                                                                                                                                                                                                                                      |
| Test Standard(s)        | : | FCC Rules and Regulations Part 15 Subpart C,<br>ANSI C63.10-2020+Cor.1-2023,<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-RE26052027-1E02                                                                                                                                                                                                                                  |
| Issue Date              | : | 2026/07/21                                                                                                                                                                                                                                           |
| 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

## Table of Contents

|      |                                                  |    |
|------|--------------------------------------------------|----|
| 1.   | Summary of Test Results .....                    | 7  |
| 2.   | General Test Information.....                    | 8  |
| 2.1. | Description of EUT .....                         | 8  |
| 2.2. | Accessories of EUT .....                         | 9  |
| 2.3. | Block diagram of EUT configuration for test..... | 9  |
| 2.4. | Decision of final test mode .....                | 9  |
| 2.5. | Deviations of test standard .....                | 10 |
| 2.6. | Test environment conditions .....                | 10 |
| 2.7. | Test laboratory .....                            | 10 |
| 2.8. | Measurement uncertainty .....                    | 11 |
| 3.   | Equipment Used During Conductive Test .....      | 12 |
| 4.   | 6 dB Bandwidth .....                             | 13 |
| 4.1. | Block diagram of test setup .....                | 13 |
| 4.2. | Limits .....                                     | 13 |
| 4.3. | Test procedure .....                             | 13 |
| 4.4. | Test result.....                                 | 14 |
| 4.5. | Test graphs .....                                | 15 |
| 5.   | 99% Bandwidth .....                              | 19 |
| 5.1. | Block diagram of test setup .....                | 19 |
| 5.2. | Limits .....                                     | 19 |
| 5.3. | Test procedure .....                             | 19 |
| 5.4. | Test result.....                                 | 20 |
| 5.5. | Test graphs .....                                | 21 |
| 6.   | Maximum Peak Output Power.....                   | 25 |
| 6.1. | Block diagram of test setup .....                | 25 |
| 6.2. | Limits .....                                     | 25 |
| 6.3. | Test procedure .....                             | 25 |
| 6.4. | Test result.....                                 | 26 |
| 6.5. | Test graphs .....                                | 27 |
| 7.   | Power Spectral Density .....                     | 31 |
| 7.1. | Block diagram of test setup .....                | 31 |
| 7.2. | Limits .....                                     | 31 |
| 7.3. | Test procedure .....                             | 31 |
| 7.4. | Test result.....                                 | 32 |
| 7.5. | Test graphs .....                                | 33 |
| 8.   | Band Edge Compliance (Conducted Method) .....    | 37 |

|       |                                         |     |
|-------|-----------------------------------------|-----|
| 8.1.  | Block diagram of test setup .....       | 37  |
| 8.2.  | Limits .....                            | 37  |
| 8.3.  | Test procedure .....                    | 37  |
| 8.4.  | Test result.....                        | 38  |
| 8.5.  | Test graphs .....                       | 39  |
| 9.    | RF Conducted Spurious Emissions.....    | 42  |
| 9.1.  | Block diagram of test setup .....       | 42  |
| 9.2.  | Limits .....                            | 42  |
| 9.3.  | Test procedure .....                    | 42  |
| 9.4.  | Test result.....                        | 43  |
| 9.5.  | Test graphs .....                       | 44  |
| 10.   | Duty Cycle .....                        | 56  |
| 10.1. | Block diagram of test setup .....       | 56  |
| 10.2. | Limit.....                              | 56  |
| 10.3. | Test procedure .....                    | 56  |
| 10.4. | Test result.....                        | 57  |
| 10.5. | Test graphs .....                       | 58  |
| 11.   | Antenna Requirements.....               | 62  |
| 11.1. | Limit.....                              | 62  |
| 11.2. | Result .....                            | 62  |
| 12.   | Radiated Emission .....                 | 63  |
| 12.1. | Test equipment.....                     | 63  |
| 12.2. | Block diagram of test setup .....       | 64  |
| 12.3. | Limits .....                            | 65  |
| 12.4. | Assistant equipment used for test ..... | 67  |
| 12.5. | Test procedure .....                    | 67  |
| 12.6. | Test result.....                        | 68  |
| 12.7. | Test data .....                         | 69  |
| 13.   | Band Edge Compliance.....               | 109 |
| 13.1. | Test equipment.....                     | 109 |
| 13.2. | Block diagram of test setup .....       | 110 |
| 13.3. | Limits .....                            | 110 |
| 13.4. | Assistant equipment used for test ..... | 110 |
| 13.5. | Test procedure .....                    | 110 |
| 13.6. | Test result.....                        | 110 |
| 13.7. | Test data .....                         | 111 |
| 14.   | Power Line Conducted Emissions.....     | 127 |
| 14.1. | Test equipment.....                     | 127 |

14.2. Block diagram of test setup .....127

14.3. Limits .....127

14.4. Assistant equipment used for test .....127

14.5. Test procedure .....128

14.6. Test result.....128

14.7. Test data .....129

15. Test Setup Photograph .....131

16. Photos of the EUT .....134

Test Report Declare

|                         |   |                                                            |
|-------------------------|---|------------------------------------------------------------|
| Applicant               | : | Harman International Industries, Inc.                      |
| Address of Applicant    | : | 8500 Balboa Boulevard, Northridge, CA 91325, UNITED STATES |
| Equipment under Test    | : | BLUETOOTH HEADSET                                          |
| Model No.               | : | VIBE FLEX 3                                                |
| Manufacturer            | : | Harman International Industries, Inc.                      |
| Address of Manufacturer | : | 8500 Balboa Boulevard, Northridge, CA 91325, UNITED STATES |

Test Standard Used:  
FCC Rules and Regulations Part 15 Subpart C,  
ANSI C63.10-2020+Cor.1-2023,  
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-RE26052027-1E02 |               |                         |
| Date of Receipt: | 2026/05/21          | Date of Test: | 2026/05/21 - 2026/06/12 |

|                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Created: Bobo Chen                                                                  | Reviewed: Tiger Mo                                                                  | Approved: Ella Gong                                                                   |
|  |  |  |
| 2026/06/10                                                                          | 2026/07/21                                                                          | 2026/07/21                                                                            |

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    | 2026/07/21 | 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), RSS-247 clause 6.3.1, RSS-Gen clause 6.7                                                               | /         | Pass   |
| 2   | Peak Output Power                | 47 CFR Part 15 15.247(b)(3), RSS-247 clause 6.3.2                                                                                   | /         | Pass   |
| 3   | Power Spectral Density           | 47 CFR Part 15 15.247(e), RSS-247 clause 6.3.1                                                                                      | /         | Pass   |
| 4   | RF Conducted Spurious Emissions  | 47 CFR Part 15 15.247(d), RSS-247 clause 6.6                                                                                        | /         | Pass   |
| 5   | Radiated Emission                | 47 CFR Part 15 15.205, 47 CFR Part 15 15.209, 47 CFR Part 15 15.247(d), RSS-247 clause 6.6, RSS-Gen clause 8.9, RSS-Gen clause 8.10 | /         | Pass   |
| 6   | Band Edge Compliance             | 47 CFR Part 15 15.205, 47 CFR Part 15 15.209, 47 CFR Part 15 15.247(d), RSS-247 clause 6.6, RSS-Gen clause 8.9, RSS-Gen clause 8.10 | /         | Pass   |
| 7   | Antenna Requirement              | 47 CFR Part 15 15.203, RSS-Gen clause 6.8                                                                                           | /         | Pass   |
| 8   | Power Line Conducted Emissions   | 47 CFR Part 15 15.207(a), RSS-Gen clause 8.8                                                                                        | /         | 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                 | : BLUETOOTH HEADSET                                                                                                                                                                          |
| Model Number             | : VIBE FLEX 3                                                                                                                                                                                |
| EUT Function Description | : Please reference user manual of this device                                                                                                                                                |
| Power Supply             | : CHARGING CASE: DC 5V from USB cable<br>HEADSET: DC 5V from external charging case<br>CHARGING CASE: DC 3.8V Lithium-ion built-in battery<br>HEADSET: DC 3.85V Lithium-ion built-in battery |
| Antenna Type             | : PIFA                                                                                                                                                                                       |
| Max Antenna Gain(dBi)    | : Left side: -4.42dBi<br>Right side: -3.58dBi                                                                                                                                                |

|                     |                        |
|---------------------|------------------------|
| 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. |      |    |      |    |      |

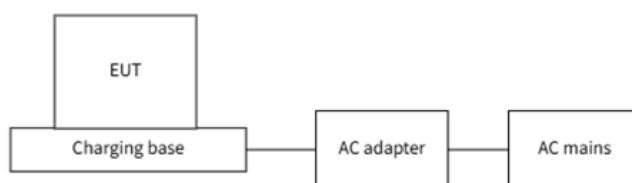
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's 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: wvt\_gui.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) |
| GFSK 1M                                               | 5                | CH0     | 2402            |
|                                                       | 5                | CH19    | 2440            |
|                                                       | 5                | CH39    | 2480            |
| GFSK 2M                                               | 5                | CH1     | 2404            |
|                                                       | 5                | CH19    | 2440            |
|                                                       | 5                | 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

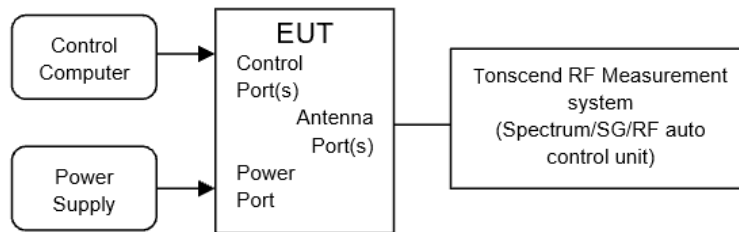
| Test Item                                                                                                                                     | Uncertainty                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Bandwidth                                                                                                                                     | 1.9%                                              |
| Peak Output Power (Conducted) (Spectrum analyzer)                                                                                             | 0.98 dB                                           |
| Peak Output Power (Conducted) (Power Sensor)                                                                                                  | 1.18 dB                                           |
| Power Spectral Density (Base EIRP)                                                                                                            | 1.51 dB                                           |
| Power Spectral Density (Spectrum analyzer)                                                                                                    | 0.98 dB                                           |
| Frequencies Stability                                                                                                                         | 1.9 kHz                                           |
| Conducted spurious emissions                                                                                                                  | 1.21 dB ( $9\text{ kHz} \leq f < 7\text{ GHz}$ ); |
|                                                                                                                                               | 3.31 dB ( $7\text{ GHz} \leq f < 40\text{ GHz}$ ) |
| Uncertainty for radio frequency (RBW < 20 kHz)                                                                                                | $5.5 \times 10^{-8}$                              |
| Time                                                                                                                                          | 0.11%                                             |
| Temperature                                                                                                                                   | 0.3 °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)                                                                                   | 4.28 dB (Antenna Polarize: V)                     |
|                                                                                                                                               | 4.14 dB (Antenna Polarize: H)                     |
| Uncertainty for Radiation Emission test<br>(1 GHz - 40 GHz)                                                                                   | 4.22 dB (1 - 6 GHz)                               |
|                                                                                                                                               | 4.52 dB (6 GHz - 18 GHz)                          |
|                                                                                                                                               | 4.58 dB (18 GHz - 40 GHz)                         |
| Uncertainty for Power line conduction emission test                                                                                           | 3.32dB (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   |
|----------------------------------------------------------------------------------|--------------|-------------|---------------|------------|
| <input checked="" type="checkbox"/> RF Connected Test (RF Measurement System 3#) |              |             |               |            |
| SIGNAL ANALYZER                                                                  | R&S          | FSV40       | 101407        | 2026/07/06 |
| Wideband Radio Communication Tester                                              | R&S          | CMW500      | 120259        | 2026/07/06 |
| EXG Analog Signal Generator                                                      | KEYSIGHT     | N5173B      | MY62153058    | 2026/07/06 |
| MXG Vector Signal Generator                                                      | Agilent      | N5182A      | MY48180912    | 2027/02/27 |
| RF Control Unit                                                                  | Tonscend     | JS0806-2    | 20C8060230    | 2027/03/17 |
| TEMP&HUMI Programmable Chamber                                                   | ZHIXIANG     | ZXGDJS-150L | ZX170110-A    | 2027/02/27 |
| Test Software                                                                    | Tonscend     | JS1120-3    | V3.6.21       | 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.

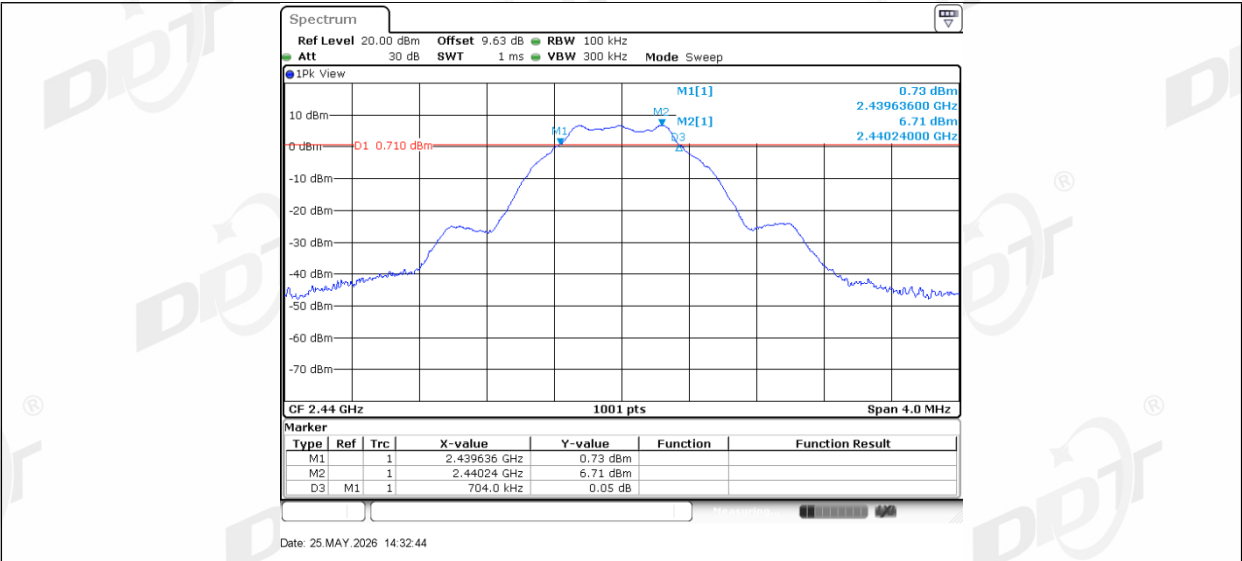
#### 4.4. Test result

|                    |                |                |                          |
|--------------------|----------------|----------------|--------------------------|
| Test Engineer:     | Zeng Zhongyao  | Test Site:     | RF Measurement System 3# |
| Ambient Condition: | 25.2°C,42.5%RH | Test Date:     | 2026.05.25               |
| Test Power Supply: | Battery        | Sample Number: | S26052027-005            |

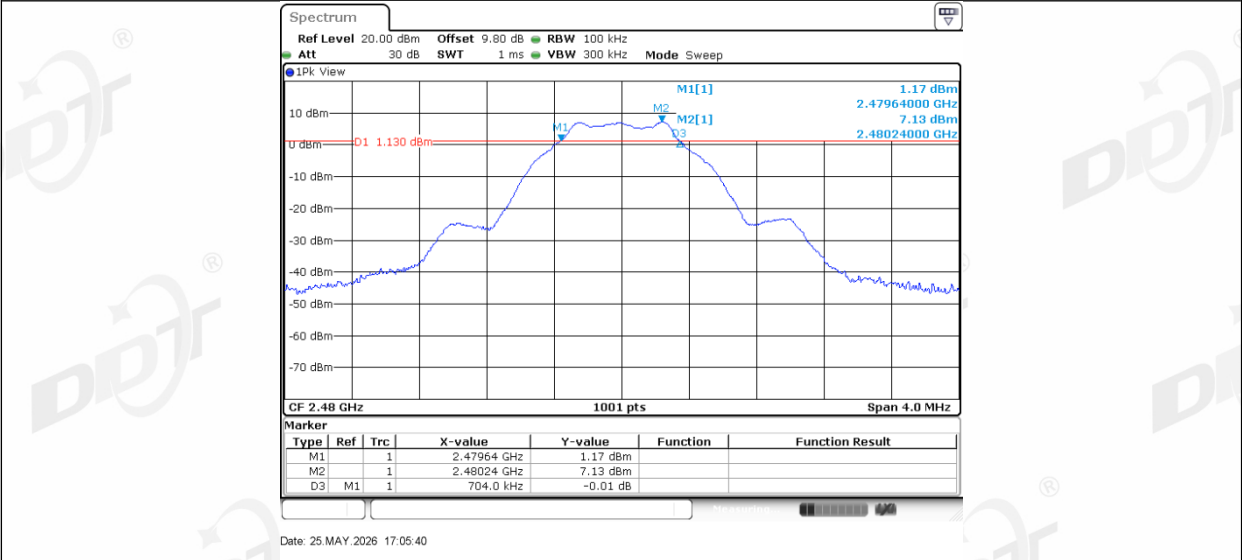
| Test Mode | Antenna    | Frequency [MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit [MHz] | Verdict |
|-----------|------------|-----------------|--------------|---------|---------|-------------|---------|
| BLE_1M    | Left side  | 2402            | 0.71         | 2401.64 | 2402.34 | 0.5         | PASS    |
|           | Right side | 2402            | 0.71         | 2401.63 | 2402.34 | 0.5         | PASS    |
|           | Left side  | 2440            | 0.70         | 2439.64 | 2440.34 | 0.5         | PASS    |
|           | Right side | 2440            | 0.70         | 2439.64 | 2440.34 | 0.5         | PASS    |
|           | Left side  | 2480            | 0.70         | 2479.64 | 2480.34 | 0.5         | PASS    |
|           | Right side | 2480            | 0.70         | 2479.64 | 2480.34 | 0.5         | PASS    |
| BLE_2M    | Left side  | 2404            | 1.26         | 2403.33 | 2404.59 | 0.5         | PASS    |
|           | Right side | 2404            | 1.26         | 2403.33 | 2404.59 | 0.5         | PASS    |
|           | Left side  | 2440            | 1.25         | 2439.34 | 2440.59 | 0.5         | PASS    |
|           | Right side | 2440            | 1.25         | 2439.33 | 2440.59 | 0.5         | PASS    |
|           | Left side  | 2478            | 1.25         | 2477.34 | 2478.59 | 0.5         | PASS    |
|           | Right side | 2478            | 1.26         | 2477.33 | 2478.59 | 0.5         | PASS    |

4.5. Test graphs

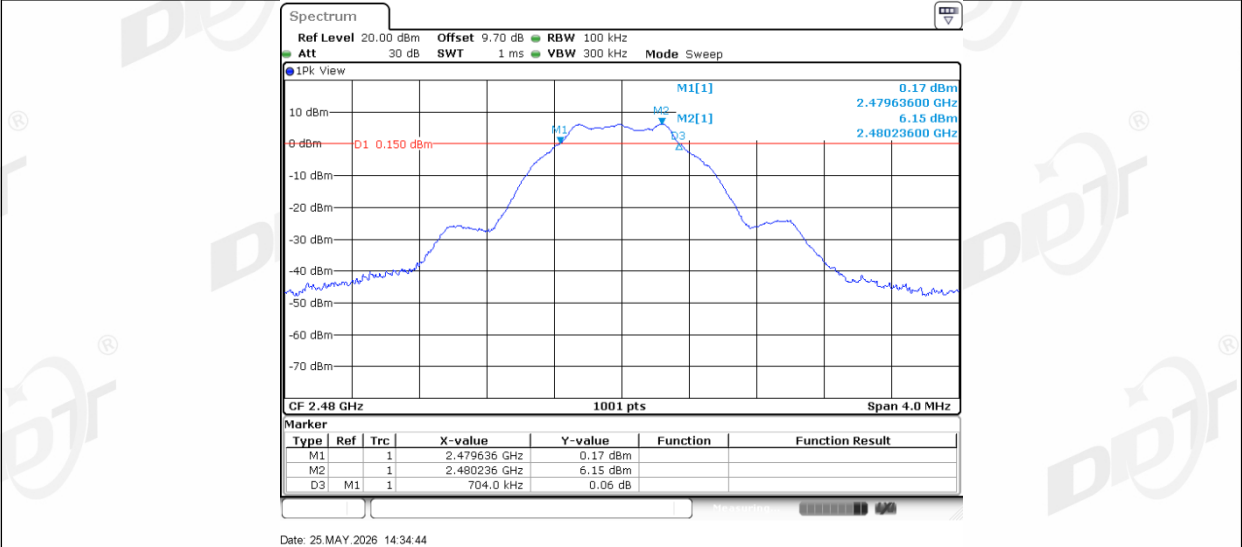




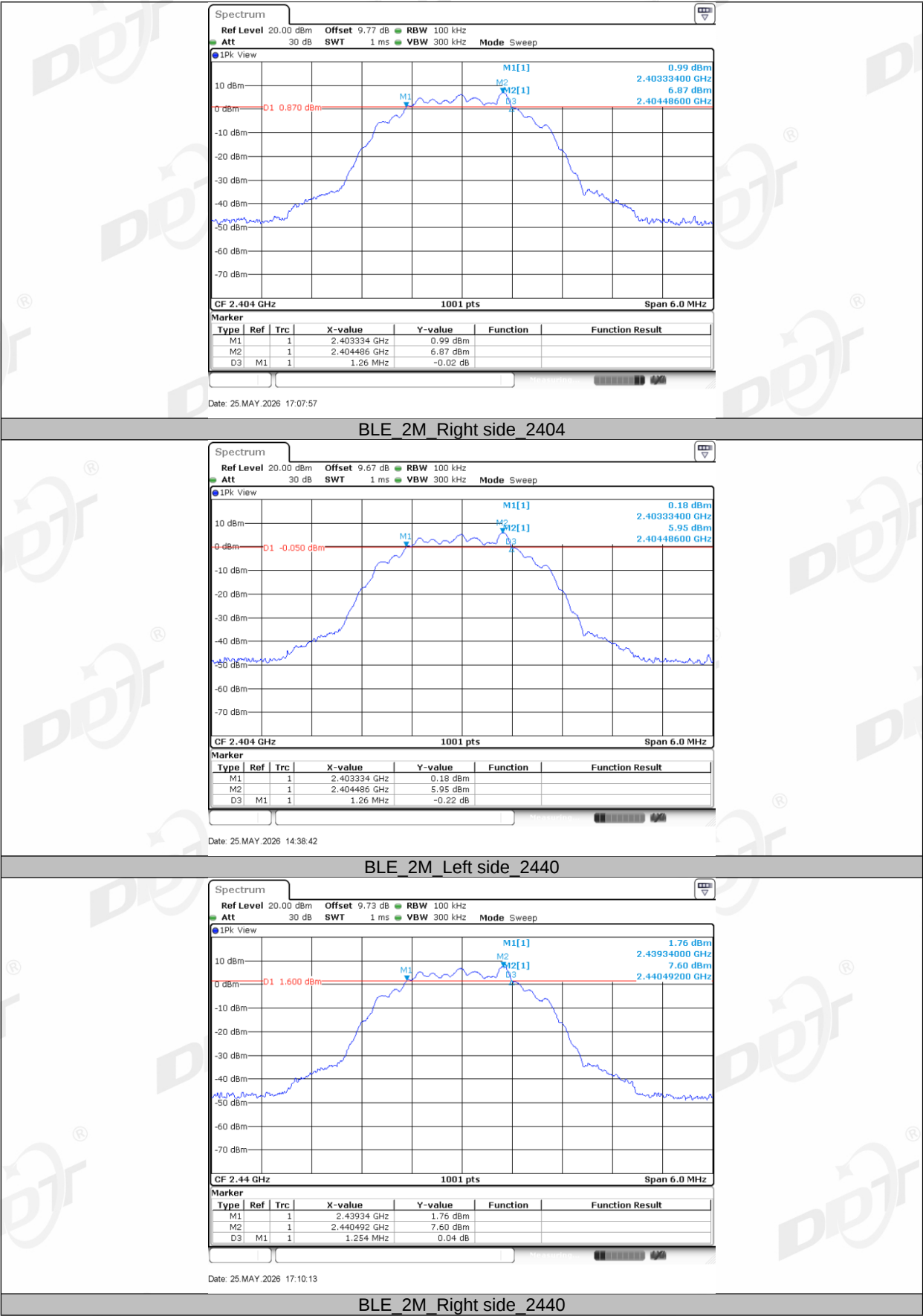
BLE\_1M Left side\_2480



BLE\_1M Right side\_2480



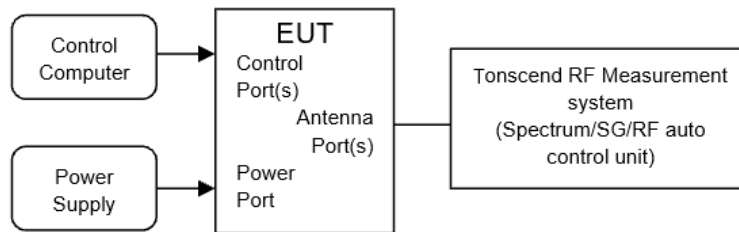
BLE\_2M Left side\_2404





## 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:

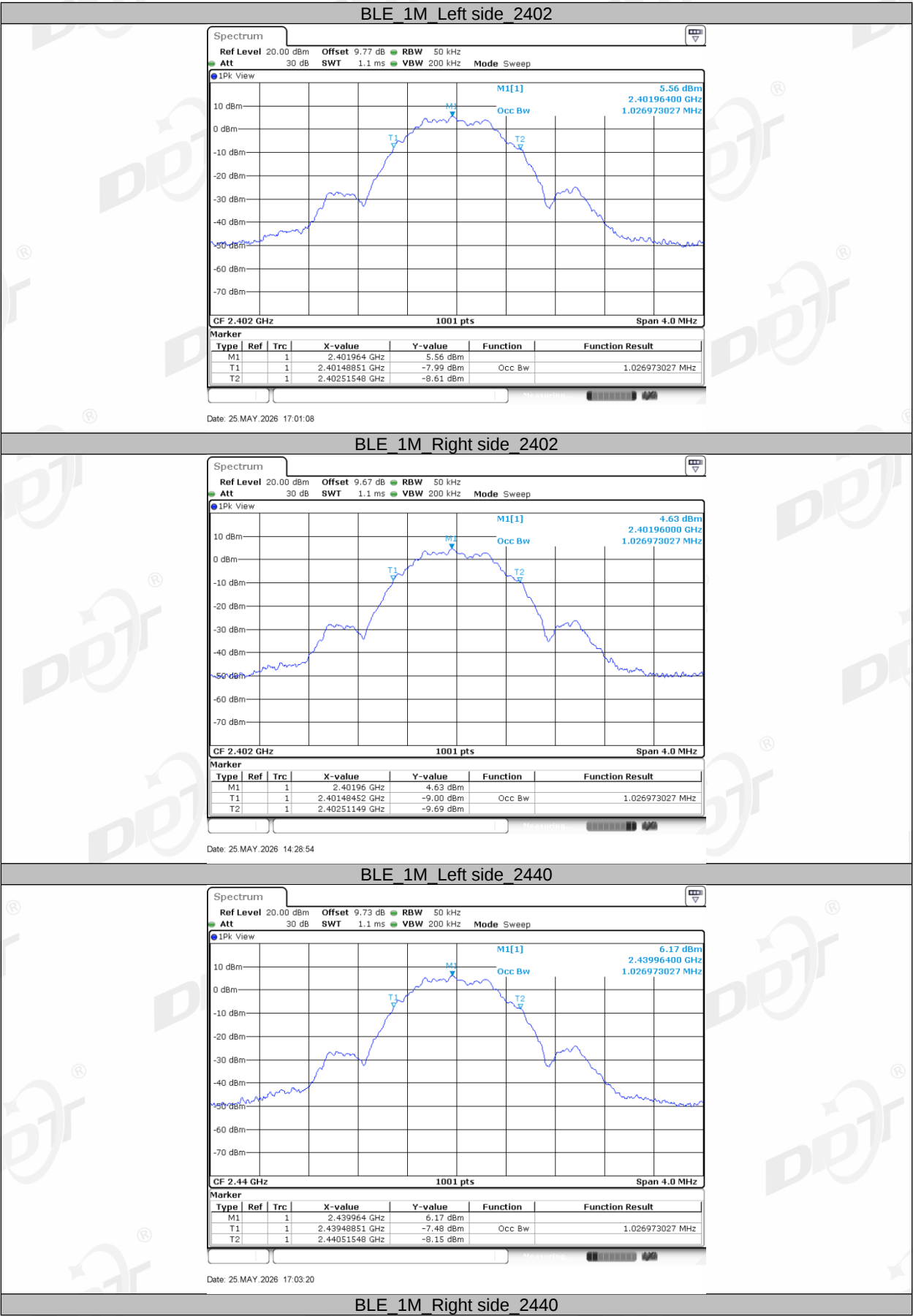
|                |                                         |
|----------------|-----------------------------------------|
| RBW:           | 1% to 5% of the OBW                     |
| VBW:           | approximately three times RBW           |
| Span:          | between 1.5 times and 5.0 times the OBW |
| 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.

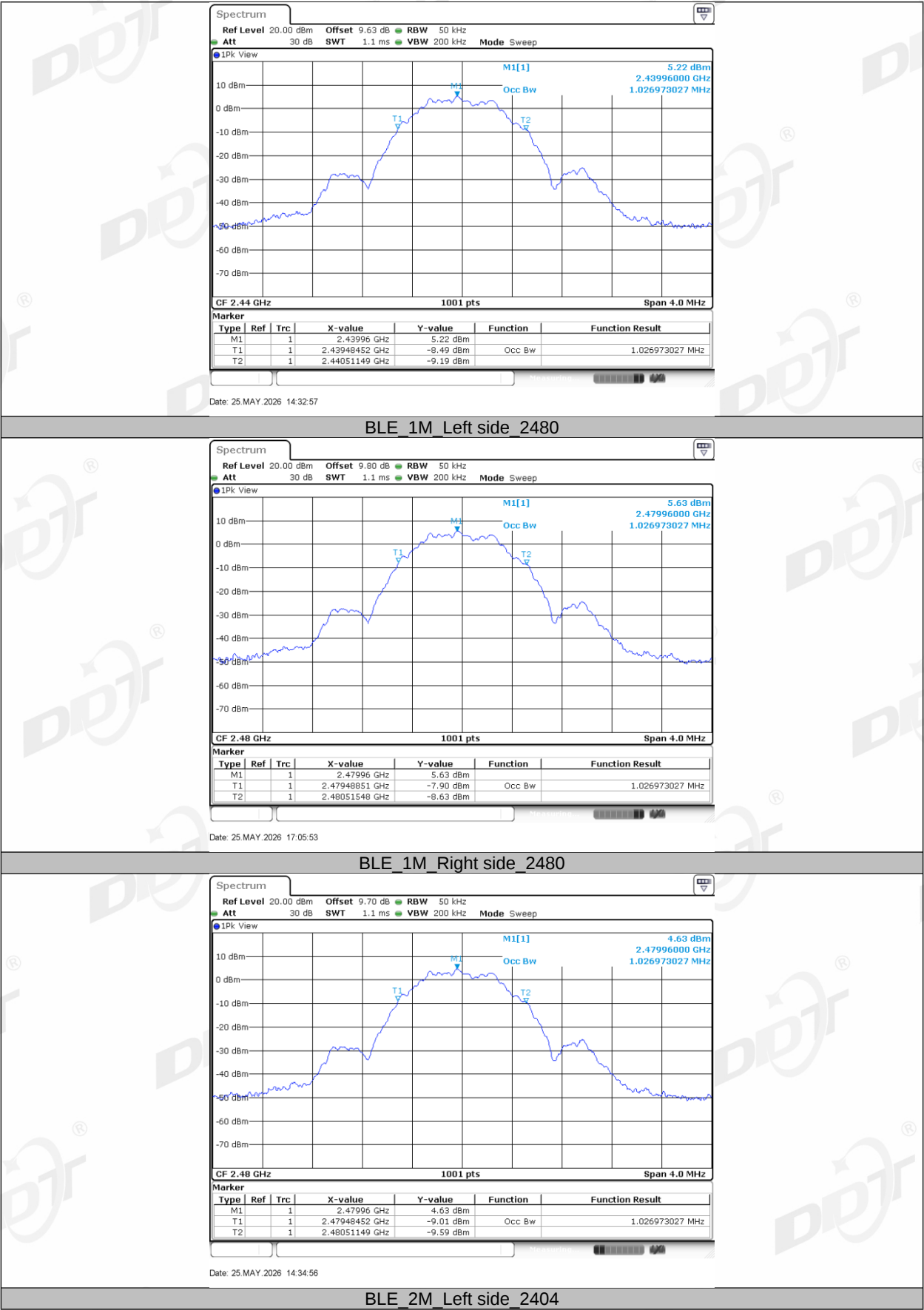
5.4. Test result

|                    |                |                |                          |
|--------------------|----------------|----------------|--------------------------|
| Test Engineer:     | Zeng Zhongyao  | Test Site:     | RF Measurement System 3# |
| Ambient Condition: | 25.2°C,42.5%RH | Test Date:     | 2026.05.25               |
| Test Power Supply: | Battery        | Sample Number: | S26052027-005            |

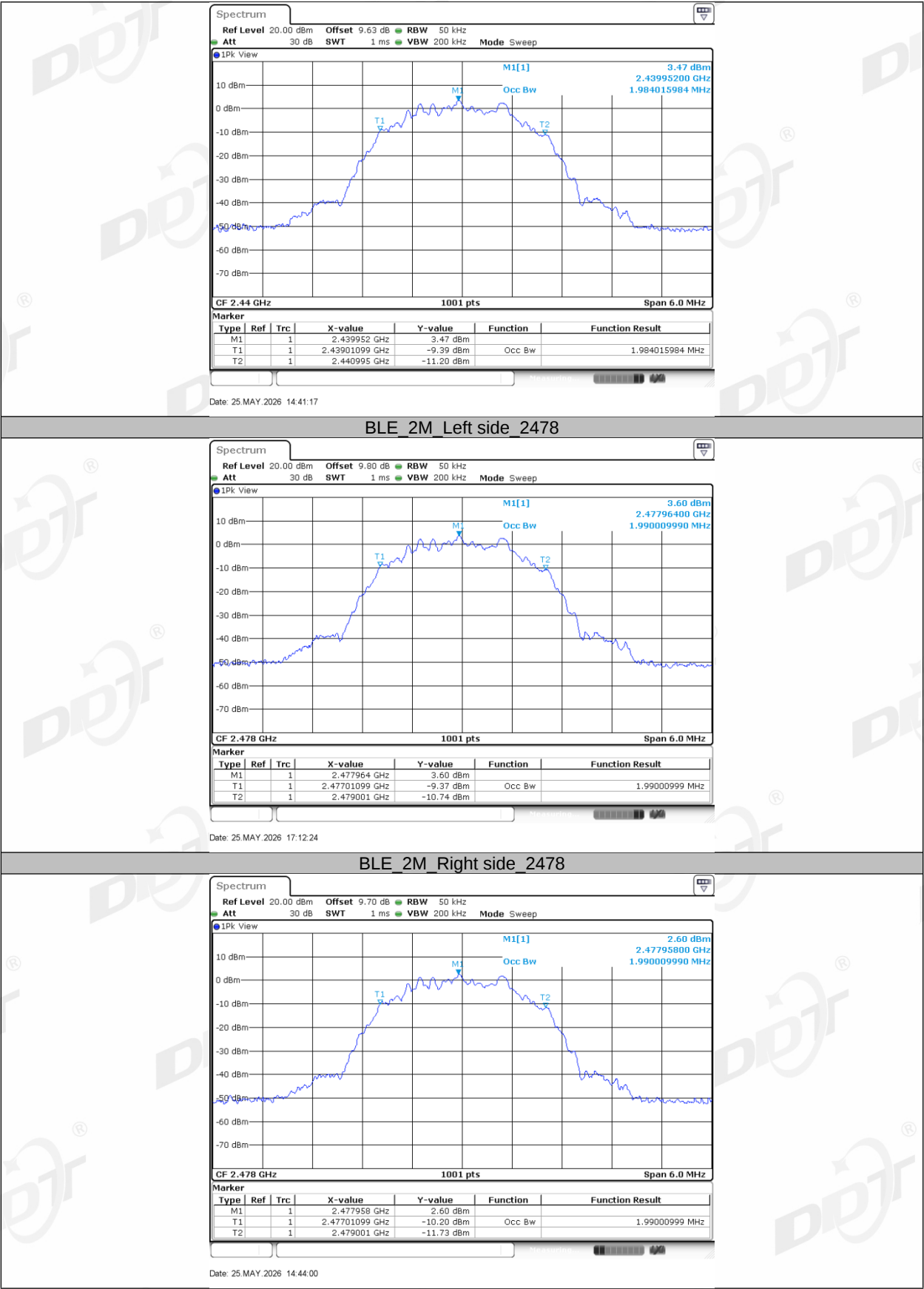
| Test Mode | Antenna    | Frequency [MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit [MHz] | Verdict |
|-----------|------------|-----------------|-----------|-----------|-----------|-------------|---------|
| BLE_1M    | Left side  | 2402            | 1.0270    | 2401.4885 | 2402.5155 | ---         | ---     |
|           | Right side | 2402            | 1.0270    | 2401.4845 | 2402.5115 | ---         | ---     |
|           | Left side  | 2440            | 1.0270    | 2439.4885 | 2440.5155 | ---         | ---     |
|           | Right side | 2440            | 1.0270    | 2439.4845 | 2440.5115 | ---         | ---     |
|           | Left side  | 2480            | 1.0270    | 2479.4885 | 2480.5155 | ---         | ---     |
|           | Right side | 2480            | 1.0270    | 2479.4845 | 2480.5115 | ---         | ---     |
| BLE_2M    | Left side  | 2404            | 1.9900    | 2403.0110 | 2405.0010 | ---         | ---     |
|           | Right side | 2404            | 1.9840    | 2403.0110 | 2404.9950 | ---         | ---     |
|           | Left side  | 2440            | 1.9900    | 2439.0110 | 2441.0010 | ---         | ---     |
|           | Right side | 2440            | 1.9840    | 2439.0110 | 2440.9950 | ---         | ---     |
|           | Left side  | 2478            | 1.9900    | 2477.0110 | 2479.0010 | ---         | ---     |
|           | Right side | 2478            | 1.9900    | 2477.0110 | 2479.0010 | ---         | ---     |

5.5. Test graphs



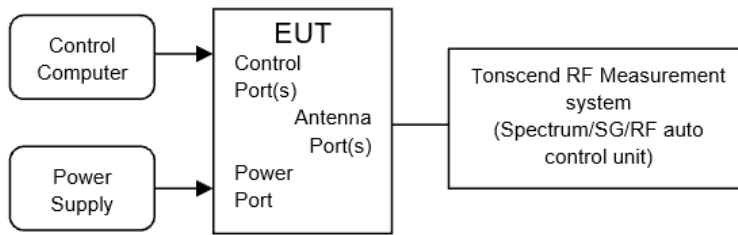






## 6. Maximum Peak Output Power

### 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:
 

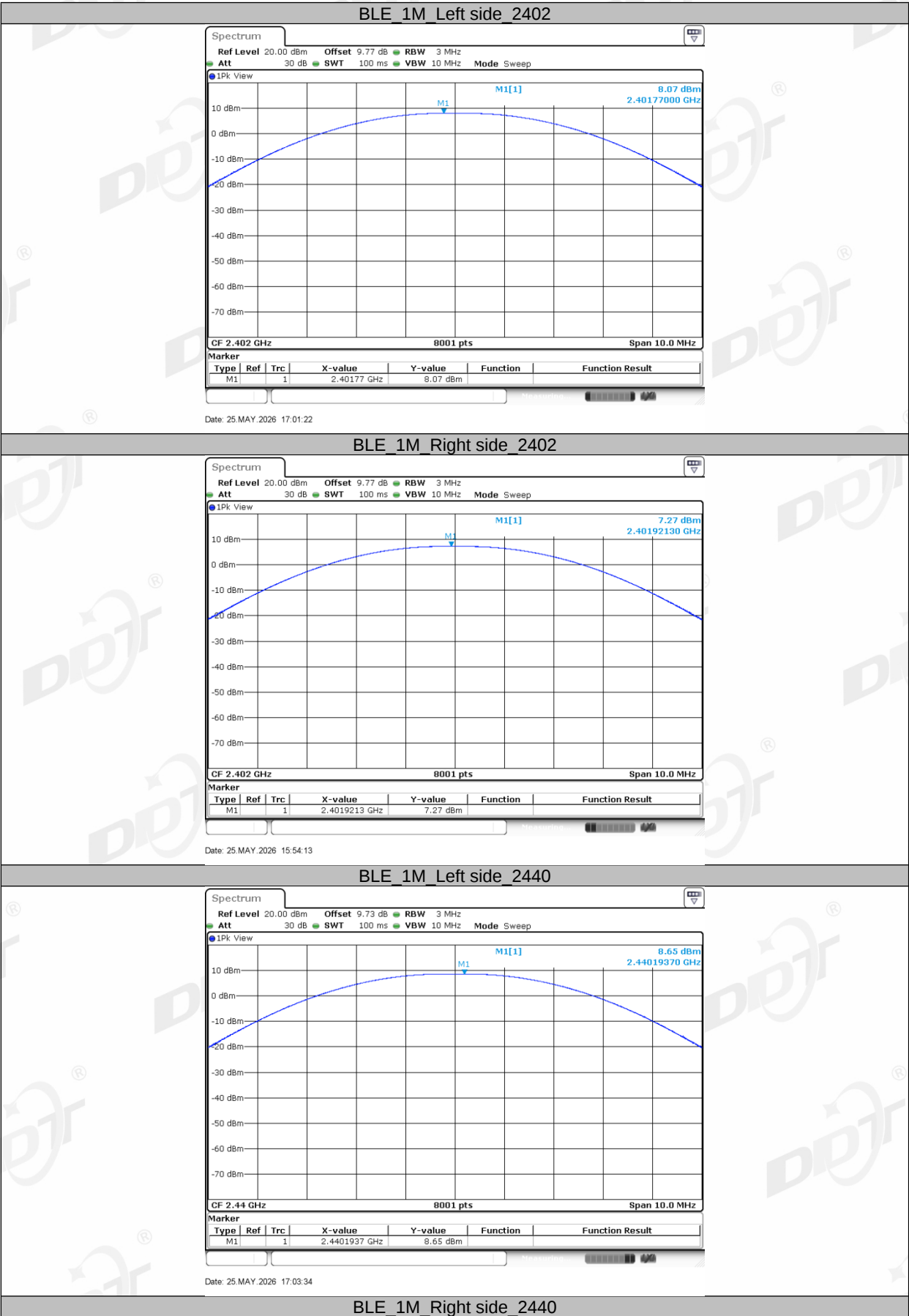
|                |                |
|----------------|----------------|
| RBW:           | ≥DTS bandwidth |
| VBW:           | ≥3 x RBW       |
| Span           | ≥3 x RBW       |
| Detector Mode: | Peak           |
| Sweep time:    | Auto           |
| Trace mode     | Max hold       |
- (5) Allow the trace to stabilize, use peak marker function to determine the peak amplitude level.

6.4. Test result

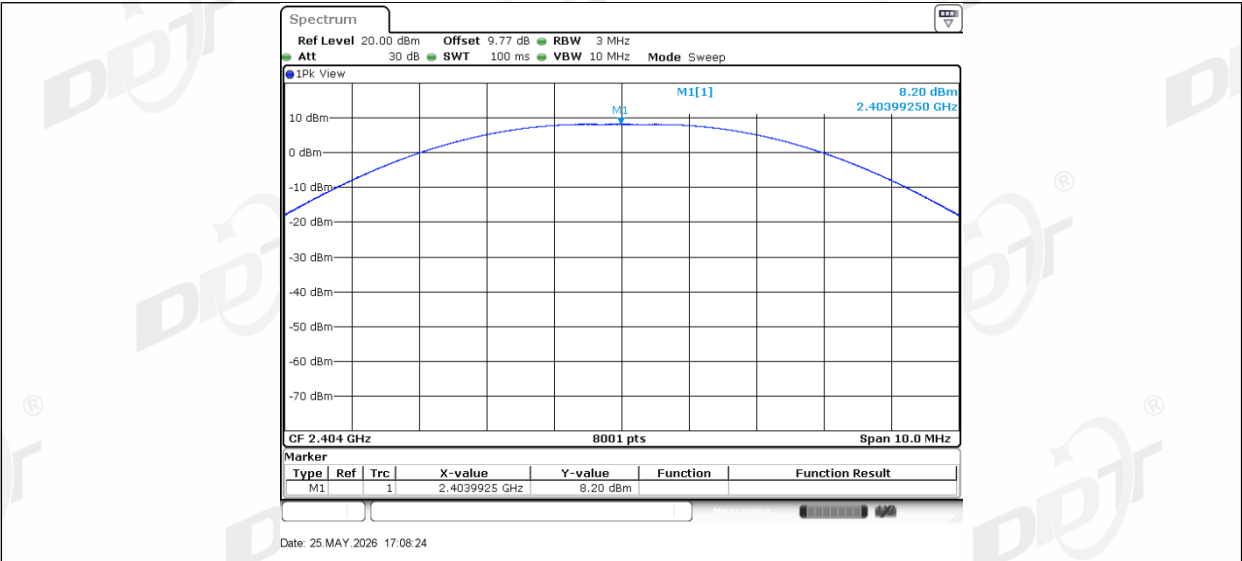
|                    |                |                |                          |
|--------------------|----------------|----------------|--------------------------|
| Test Engineer:     | Zeng Zhongyao  | Test Site:     | RF Measurement System 3# |
| Ambient Condition: | 25.2°C,42.5%RH | Test Date:     | 2026.05.25               |
| Test Power Supply: | Battery        | Sample Number: | S26052027-005            |

| Test Mode | Antenna    | Frequency [MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | EIRP[dBm] | EIRP Limit[dBm] | Verdict |
|-----------|------------|-----------------|---------------------------|----------------------|-----------|-----------------|---------|
| BLE_1M    | Left side  | 2402            | 8.07                      | ≤30                  | 3.65      | ≤36             | PASS    |
|           | Right side | 2402            | 7.27                      | ≤30                  | 3.69      | ≤36             | PASS    |
|           | Left side  | 2440            | 8.65                      | ≤30                  | 4.23      | ≤36             | PASS    |
|           | Right side | 2440            | 7.80                      | ≤30                  | 4.22      | ≤36             | PASS    |
|           | Left side  | 2480            | 8.12                      | ≤30                  | 3.70      | ≤36             | PASS    |
|           | Right side | 2480            | 7.23                      | ≤30                  | 3.65      | ≤36             | PASS    |
| BLE_2M    | Left side  | 2404            | 8.20                      | ≤30                  | 3.78      | ≤36             | PASS    |
|           | Right side | 2404            | 7.39                      | ≤30                  | 3.81      | ≤36             | PASS    |
|           | Left side  | 2440            | 8.90                      | ≤30                  | 4.48      | ≤36             | PASS    |
|           | Right side | 2440            | 8.02                      | ≤30                  | 4.44      | ≤36             | PASS    |
|           | Left side  | 2478            | 8.22                      | ≤30                  | 3.80      | ≤36             | PASS    |
|           | Right side | 2478            | 7.31                      | ≤30                  | 3.73      | ≤36             | PASS    |

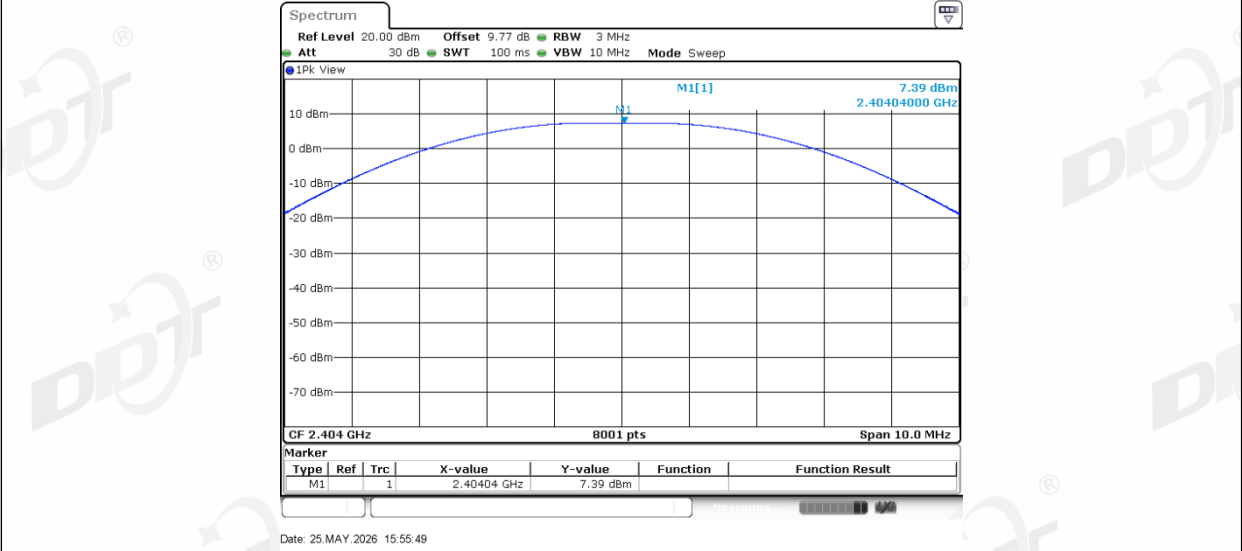
6.5. Test graphs



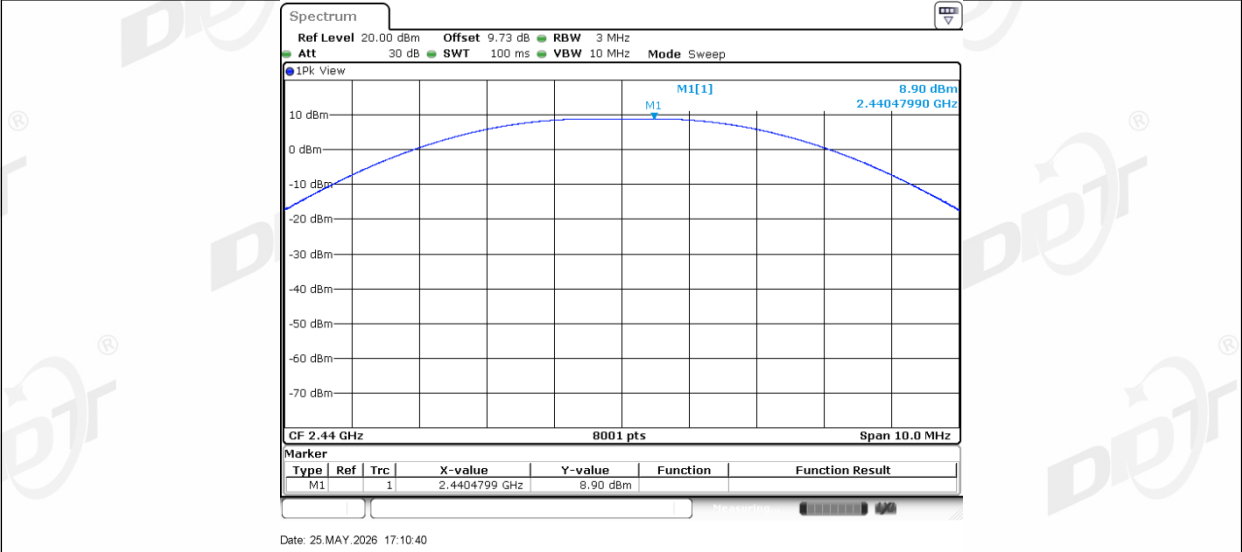




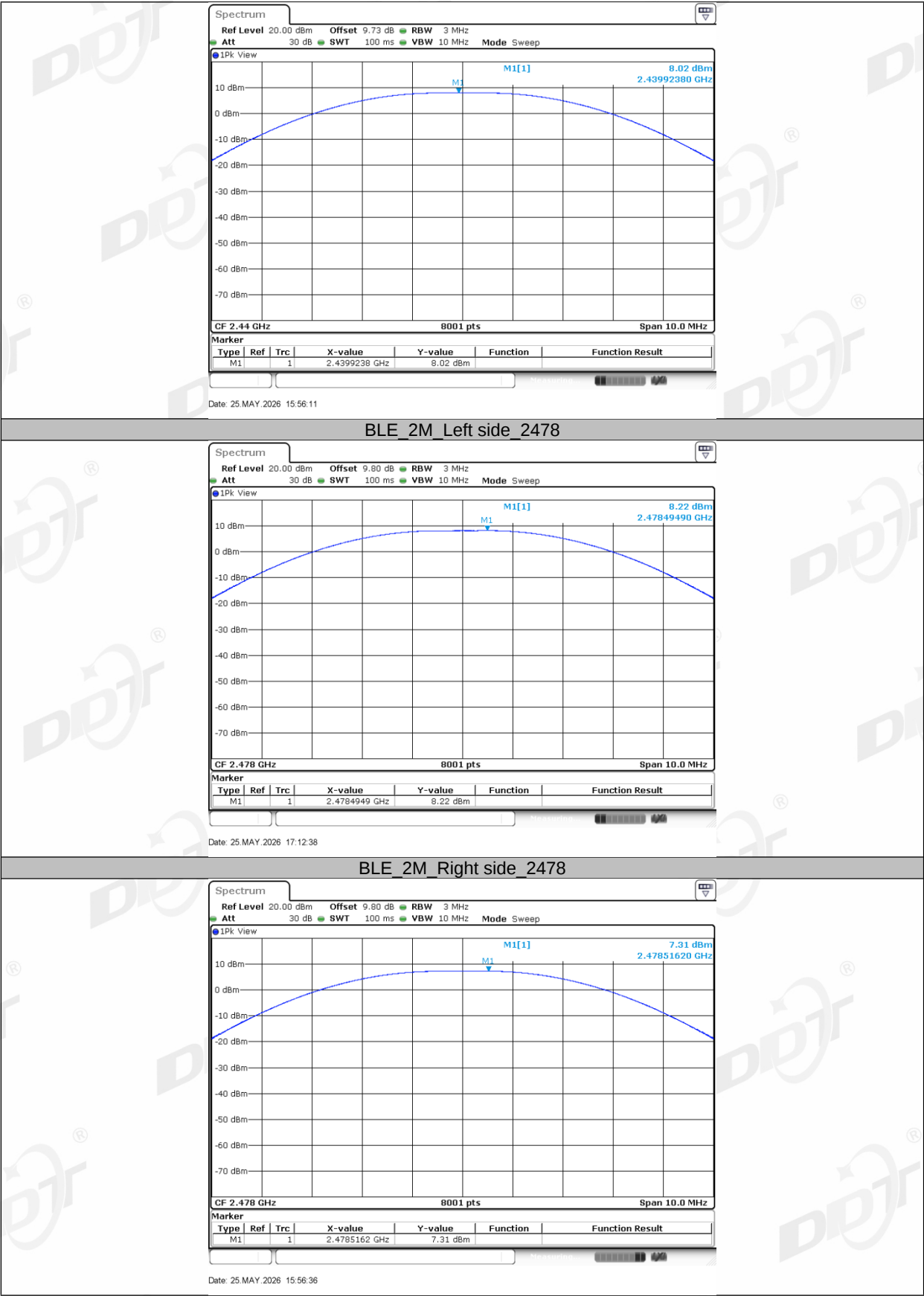
BLE\_2M\_Right side\_2404



BLE\_2M\_Left side\_2440

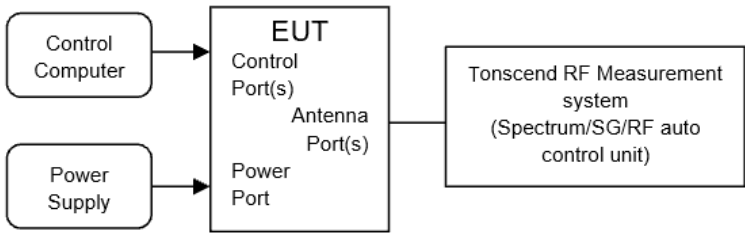


BLE\_2M\_Right side\_2440



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:

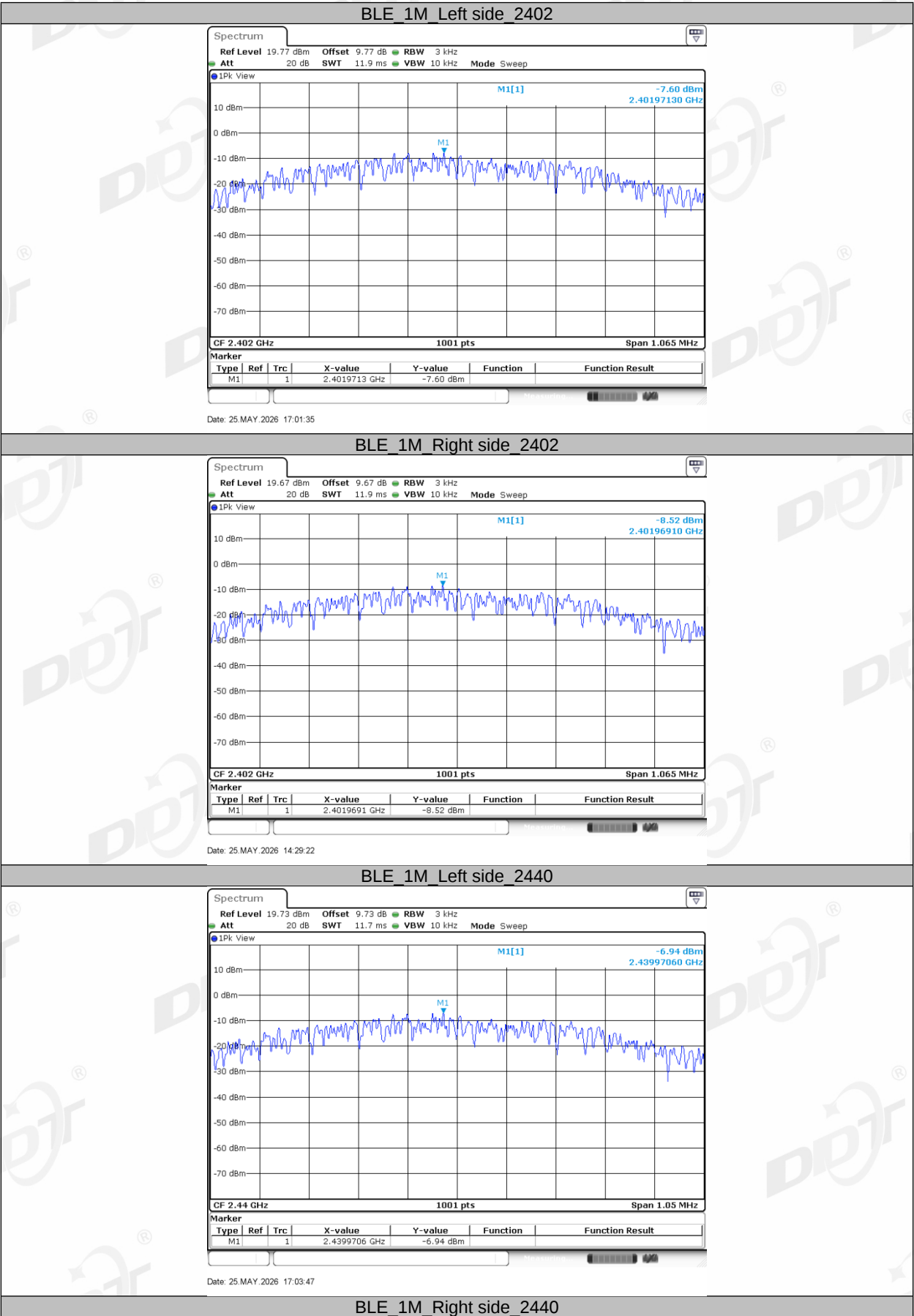
|                  |                                                    |
|------------------|----------------------------------------------------|
| Center frequency | DTS Channel center frequency                       |
| RBW:             | $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$ |
| VBW:             | $\geq 3\text{RBW}$                                 |
| 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.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

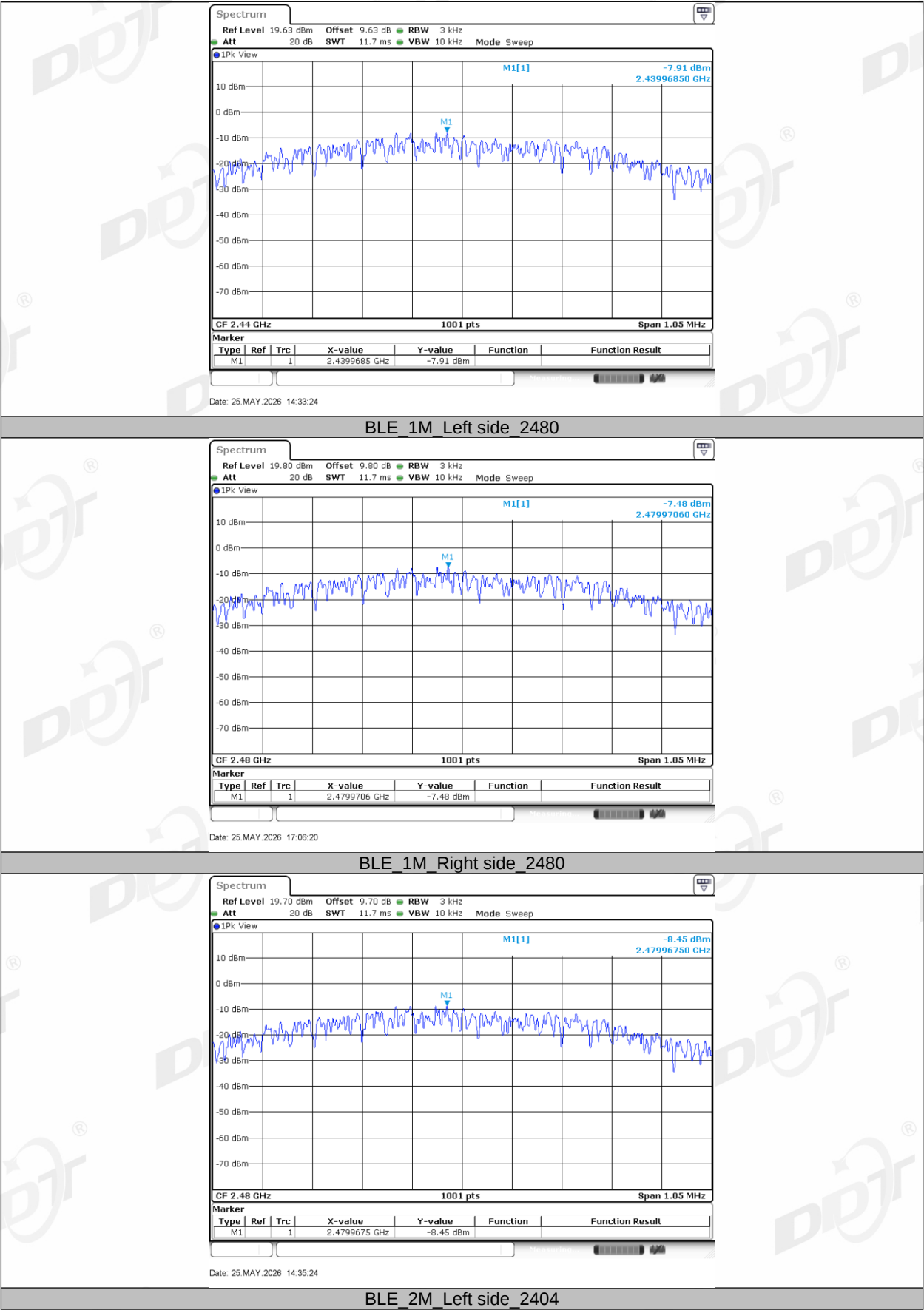
7.4. Test result

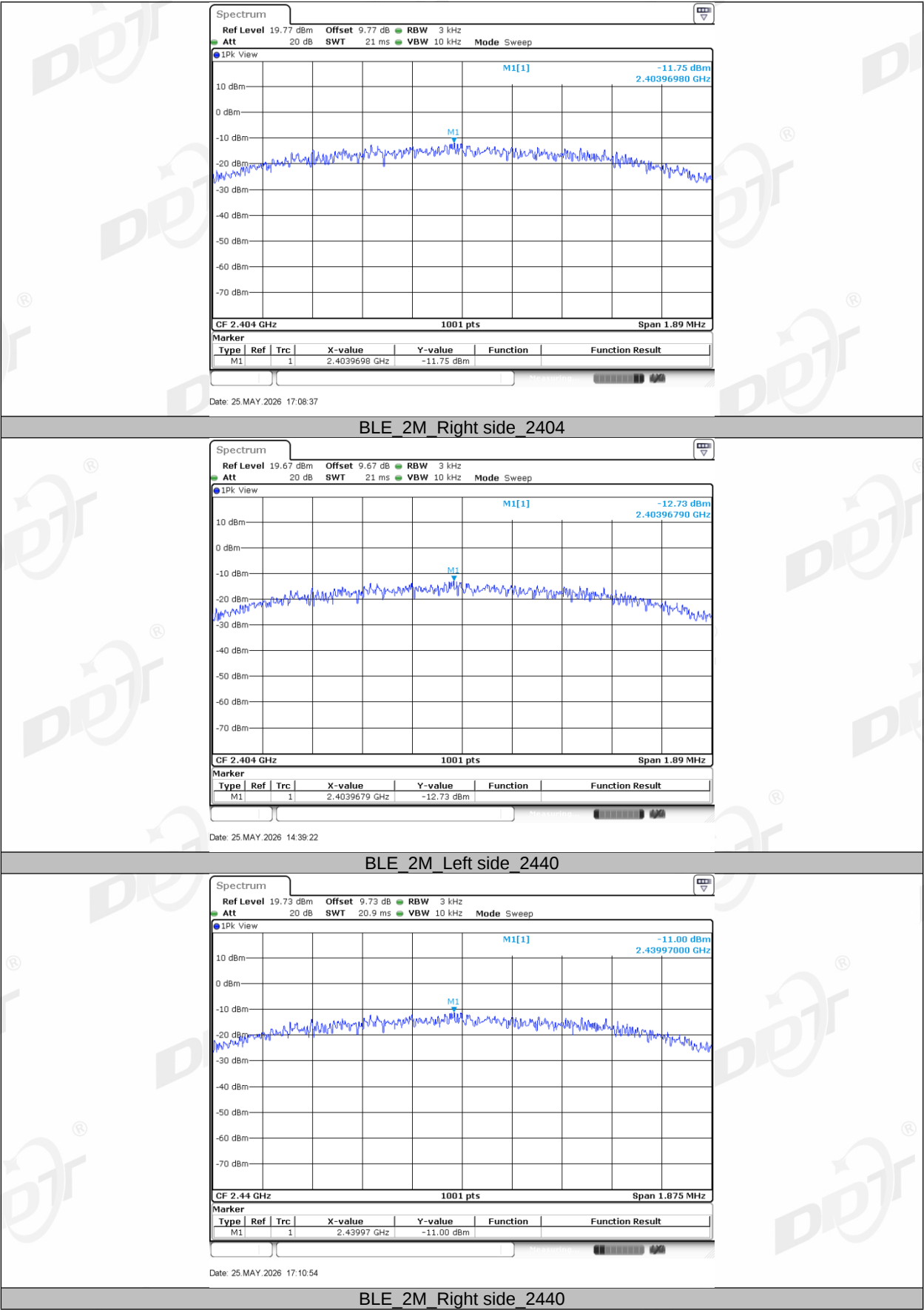
|                    |                |                |                          |
|--------------------|----------------|----------------|--------------------------|
| Test Engineer:     | Zeng Zhongyao  | Test Site:     | RF Measurement System 3# |
| Ambient Condition: | 25.2°C,42.5%RH | Test Date:     | 2026.05.25               |
| Test Power Supply: | Battery        | Sample Number: | S26052027-005            |

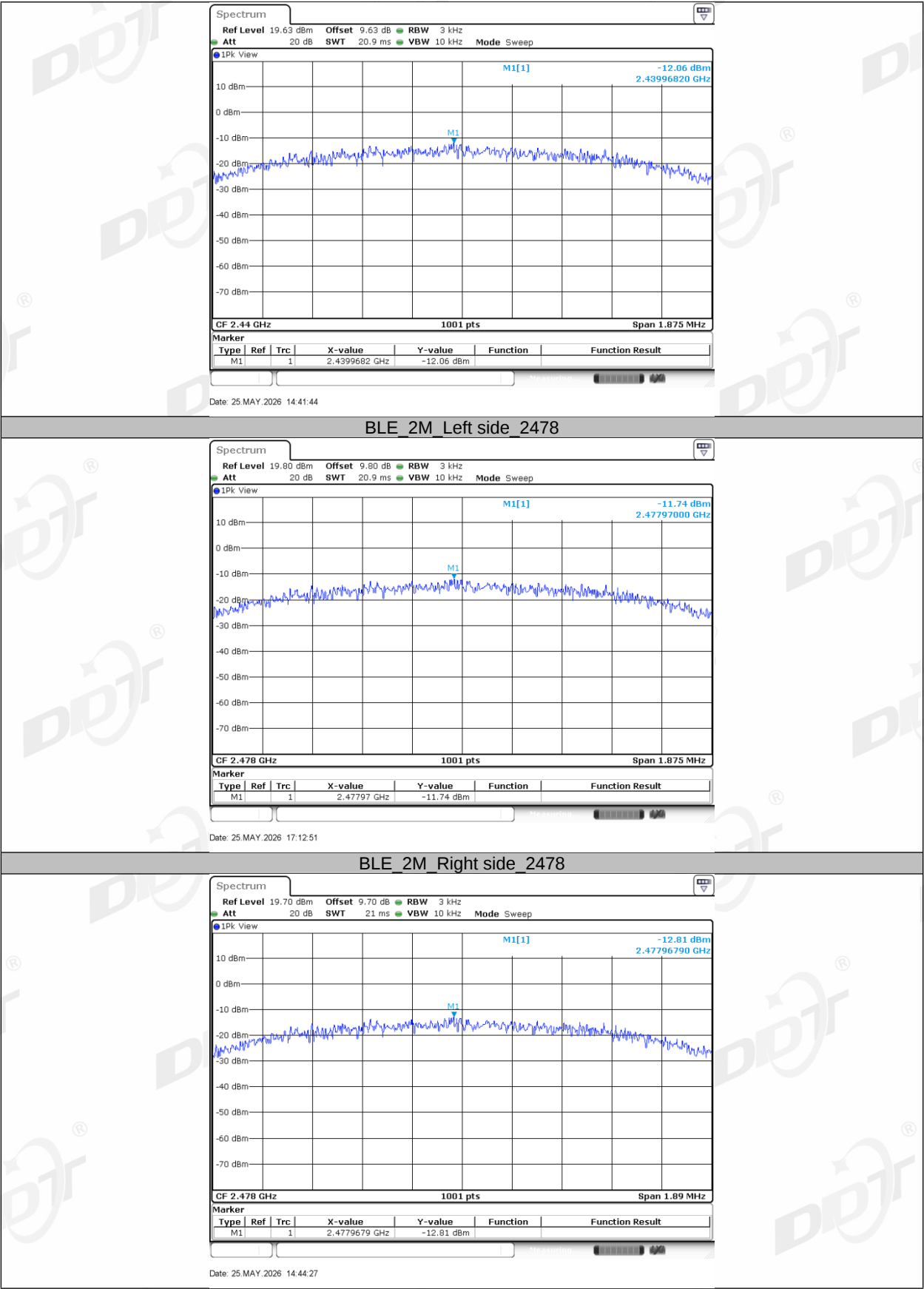
| Test Mode | Antenna    | Frequency [MHz] | Result [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|-----------|------------|-----------------|-------------------|------------------|---------|
| BLE_1M    | Left side  | 2402            | -7.60             | ≤8.00            | PASS    |
|           | Right side | 2402            | -8.52             | ≤8.00            | PASS    |
|           | Left side  | 2440            | -6.94             | ≤8.00            | PASS    |
|           | Right side | 2440            | -7.91             | ≤8.00            | PASS    |
|           | Left side  | 2480            | -7.48             | ≤8.00            | PASS    |
|           | Right side | 2480            | -8.45             | ≤8.00            | PASS    |
| BLE_2M    | Left side  | 2404            | -11.75            | ≤8.00            | PASS    |
|           | Right side | 2404            | -12.73            | ≤8.00            | PASS    |
|           | Left side  | 2440            | -11.00            | ≤8.00            | PASS    |
|           | Right side | 2440            | -12.06            | ≤8.00            | PASS    |
|           | Left side  | 2478            | -11.74            | ≤8.00            | PASS    |
|           | Right side | 2478            | -12.81            | ≤8.00            | PASS    |

7.5. Test graphs



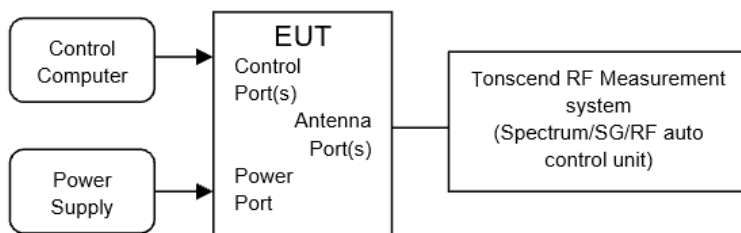






## 8. Band Edge Compliance (Conducted Method)

### 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:

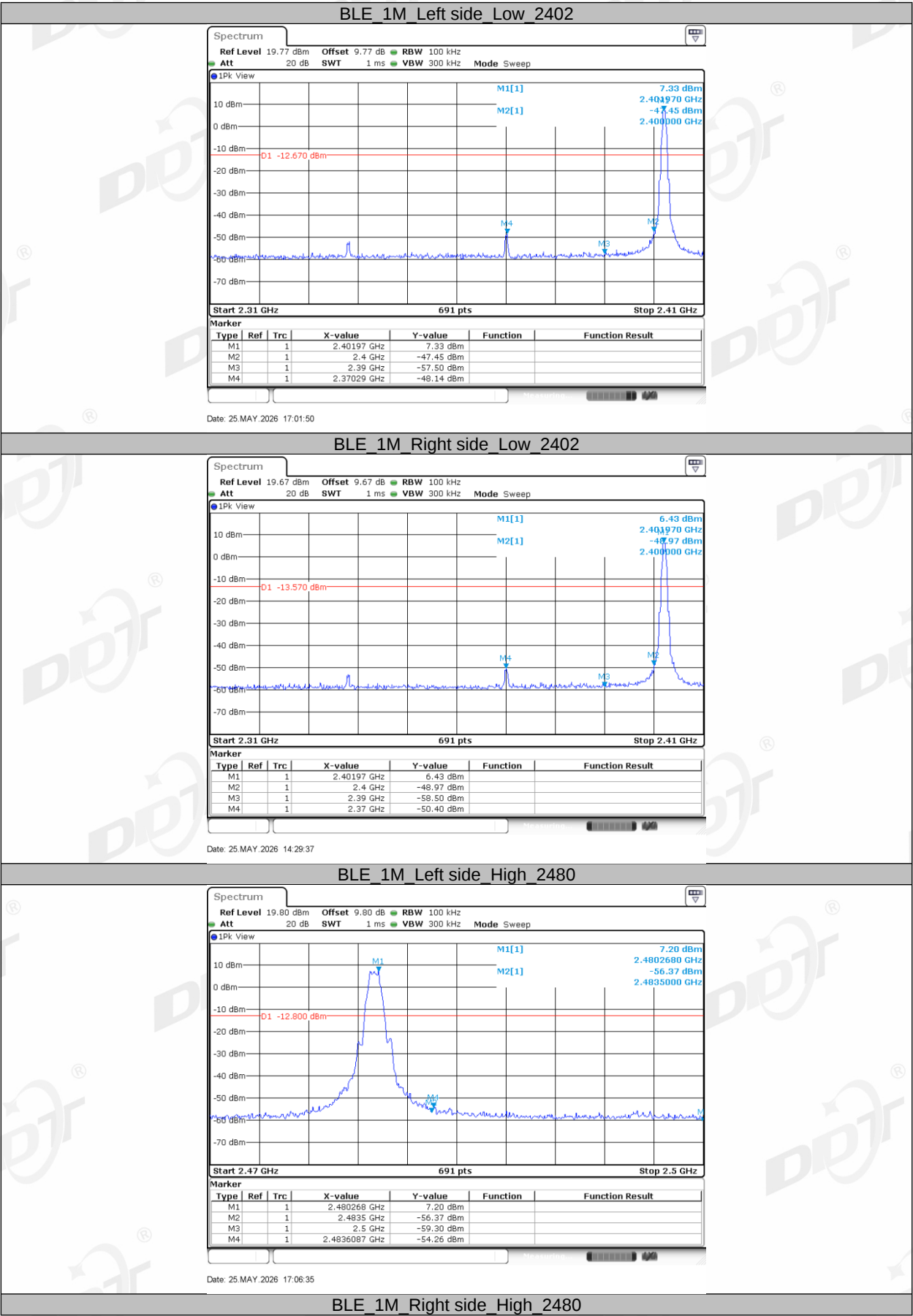
|                |                                          |
|----------------|------------------------------------------|
| RBW:           | 100 kHz                                  |
| VBW:           | 300 kHz                                  |
| Span           | Encompass frequency range to be measured |
| 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:     | Zeng Zhongyao  | Test Site:     | RF Measurement System 3# |
| Ambient Condition: | 25.2°C,42.5%RH | Test Date:     | 2026.05.25               |
| Test Power Supply: | Battery        | Sample Number: | S26052027-005            |

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

8.5. Test graphs

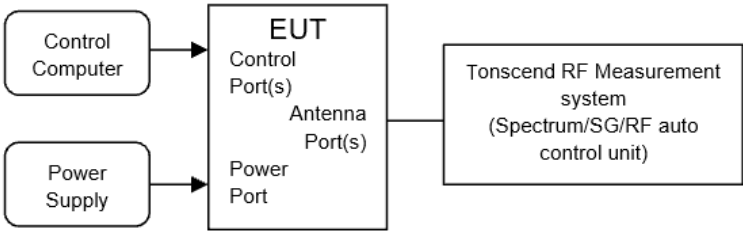






9. RF Conducted Spurious Emissions

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                                 |

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:     | Zeng Zhongyao  | Test Site:     | RF Measurement System 3# |
| Ambient Condition: | 25.2°C,42.5%RH | Test Date:     | 2026.05.25               |
| Test Power Supply: | Battery        | Sample Number: | S26052027-005            |

| Mode    | Frequency<br>[MHz] | Verdict |
|---------|--------------------|---------|
| GFSK 1M | 2402               | Pass    |
|         | 2440               | Pass    |
|         | 2480               | Pass    |
| GFSK 2M | 2404               | Pass    |
|         | 2440               | Pass    |
|         | 2478               | Pass    |

9.5. Test graphs

