



## FCC AND ISED CERTIFICATION TEST REPORT

|                                |   |                                                                                                                                                                 |
|--------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant</b>               | : | Harman International Industries, Inc.                                                                                                                           |
| <b>Address of Applicant</b>    | : | 8500 Balboa Boulevard, Northridge, CA 91329,<br>UNITED STATES                                                                                                   |
| <b>Manufacturer</b>            | : | Harman International Industries, Inc.                                                                                                                           |
| <b>Address of Manufacturer</b> | : | 8500 Balboa Boulevard, Northridge, CA 91329,<br>UNITED STATES                                                                                                   |
| <b>Equipment under Test</b>    | : | Wireless Subwoofer                                                                                                                                              |
| <b>Model No.</b>               | : | ENCHANT SUB                                                                                                                                                     |
| <b>HVIN</b>                    | : | SUB2                                                                                                                                                            |
| <b>FCC ID</b>                  | : | APIENCHANTSUB2                                                                                                                                                  |
| <b>IC</b>                      | : | 6132A-ENCHANTSUB2                                                                                                                                               |
| <b>Test Standard(s)</b>        | : | FCC Rules and Regulations Part 15 Subpart C,<br>RSS-247 Issue 3 August 2023,<br>ANSI C63.10:2013,<br>RSS-Gen Issue 5, Apr. 2018, Amendment 2<br>(February 2021) |
| <b>Report No.</b>              | : | DDT-RE24081429-2E01                                                                                                                                             |
| <b>Issue Date</b>              | : | 2024/10/15                                                                                                                                                      |
| <b>Issue By</b>                | : | 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 .....                         | 10 |
| 2.3. | Block diagram of EUT configuration for test..... | 10 |
| 2.4. | Decision of final test mode .....                | 10 |
| 2.5. | Deviations of test standard .....                | 11 |
| 2.6. | Test environment conditions.....                 | 11 |
| 2.7. | Test laboratory .....                            | 12 |
| 2.8. | Measurement uncertainty .....                    | 12 |
| 3.   | Equipment Used During Conductive Test .....      | 13 |
| 4.   | 6dB Bandwidth.....                               | 14 |
| 4.1. | Block diagram of test setup .....                | 14 |
| 4.2. | Limits.....                                      | 14 |
| 4.3. | Test procedure.....                              | 14 |
| 4.4. | Test result .....                                | 15 |
| 4.5. | Test graphs .....                                | 16 |
| 5.   | 99% Bandwidth .....                              | 28 |
| 5.1. | Block diagram of test setup .....                | 28 |
| 5.2. | Limits.....                                      | 28 |
| 5.3. | Test procedure.....                              | 28 |
| 5.4. | Test result .....                                | 29 |
| 5.5. | Test graphs .....                                | 30 |
| 6.   | Conducted Output Power .....                     | 42 |
| 6.1. | Block diagram of test setup .....                | 42 |
| 6.2. | Limits.....                                      | 42 |
| 6.3. | Test procedure.....                              | 42 |
| 6.4. | Test result average .....                        | 43 |
| 7.   | Power Spectral Density .....                     | 46 |
| 7.1. | Block diagram of test setup .....                | 46 |
| 7.2. | Limits.....                                      | 46 |
| 7.3. | Test procedure.....                              | 46 |
| 7.4. | Test result .....                                | 47 |
| 7.5. | Test graphs .....                                | 50 |
| 8.   | Band Edge Compliance (Conducted Method).....     | 86 |
| 8.1. | Block diagram of test setup .....                | 86 |

|       |                                         |     |
|-------|-----------------------------------------|-----|
| 8.2.  | Limits.....                             | 86  |
| 8.3.  | Test procedure.....                     | 86  |
| 8.4.  | Test result .....                       | 87  |
| 8.5.  | Test graphs.....                        | 88  |
| 9.    | RF Conducted Spurious Emissions.....    | 96  |
| 9.1.  | Block diagram of test setup .....       | 96  |
| 9.2.  | Limits.....                             | 96  |
| 9.3.  | Test procedure.....                     | 96  |
| 9.4.  | Test result .....                       | 97  |
| 9.5.  | Test graphs.....                        | 98  |
| 10.   | Duty Cycle.....                         | 134 |
| 10.1. | Block diagram of test setup .....       | 134 |
| 10.2. | Limit.....                              | 134 |
| 10.3. | Test procedure.....                     | 134 |
| 10.4. | Test result .....                       | 134 |
| 10.5. | Test graphs.....                        | 138 |
| 11.   | Antenna Requirements .....              | 174 |
| 11.1. | Limit.....                              | 174 |
| 11.2. | Result.....                             | 174 |
| 12.   | Radiated Emission.....                  | 175 |
| 12.1. | Test equipment .....                    | 175 |
| 12.2. | Block diagram of test setup .....       | 176 |
| 12.3. | Limits.....                             | 177 |
| 12.4. | Assistant equipment used for test ..... | 179 |
| 12.5. | Test procedure.....                     | 179 |
| 12.6. | Test result .....                       | 180 |
| 12.7. | Test data .....                         | 181 |
| 13.   | Band Edge Compliance .....              | 189 |
| 13.1. | Test equipment .....                    | 189 |
| 13.2. | Block diagram of test setup .....       | 190 |
| 13.3. | Limits.....                             | 190 |
| 13.4. | Assistant equipment used for test ..... | 190 |
| 13.5. | Test procedure.....                     | 190 |
| 13.6. | Test result .....                       | 190 |
| 13.7. | Test data .....                         | 191 |
| 14.   | Power Line Conducted Emissions.....     | 227 |
| 14.1. | Test equipment .....                    | 227 |
| 14.2. | Block diagram of test setup .....       | 227 |

14.3. Limits..... 227

14.4. Assistant equipment used for test ..... 227

14.5. Test procedure..... 227

14.6. Test result ..... 228

14.7. Test data ..... 229

15. Test Setup Photograph..... 231

16. Photos of the EUT ..... 233

## Test Report Declare

|                                |   |                                                            |
|--------------------------------|---|------------------------------------------------------------|
| <b>Applicant</b>               | : | Harman International Industries, Inc.                      |
| <b>Address of Applicant</b>    | : | 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES |
| <b>Equipment under Test</b>    | : | Wireless Subwoofer                                         |
| <b>Model No.</b>               | : | ENCHANT SUB                                                |
| <b>Manufacturer</b>            | : | Harman International Industries, Inc.                      |
| <b>Address of Manufacturer</b> | : | 8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES |

**Test Standard Used:**

FCC Rules and Regulations Part 15 Subpart C,  
RSS-247 Issue 3 August 2023,  
ANSI C63.10:2013,  
RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)

**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.

|                         |                     |                      |                         |
|-------------------------|---------------------|----------------------|-------------------------|
| <b>Report No.:</b>      | DDT-RE24081429-2E01 |                      |                         |
| <b>Date of Receipt:</b> | 2024/08/26          | <b>Date of Test:</b> | 2024/08/26 - 2024/10/15 |

**Prepared By:****Bobo Chen/Engineer****Approved By:****Damon Hu/EMC Manager**

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

| Rev. | Revisions     | Issue Date | Revised By |
|------|---------------|------------|------------|
| ---  | Initial issue | 2024/10/15 |            |
|      |               |            |            |

## 1. Summary of Test Results

| No.                                                                                                                                              | Test Parameter                   | Clause No.                                                                                                                                            | Condition | Result |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|
| 1                                                                                                                                                | 6 dB Bandwidth and 99% Bandwidth | FCC Part 15: 15.247(a)(2), RSS-247 Issue 3 clause 5.2(a), RSS-Gen Issue 5 clause 6.7                                                                  | /         | Pass   |
| 2                                                                                                                                                | Peak Output Power                | FCC Part 15: 15.247(b)(3), RSS-247 Issue 3 clause 5.4(d)                                                                                              | /         | Pass   |
| 3                                                                                                                                                | Power Spectral Density           | FCC Part 15:15.247(e), RSS-247 Issue 3 clause 5.2(b)                                                                                                  | /         | Pass   |
| 4                                                                                                                                                | RF Conducted Spurious Emissions  | FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5                                                                                                    | /         | Pass   |
| 5                                                                                                                                                | Radiated Emission                | FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5, RSS-Gen Issue 5 clause 8.9, RSS-Gen Issue 5 clause 8.10 | /         | Pass   |
| 6                                                                                                                                                | Band Edge Compliance             | FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5, RSS-Gen Issue 5 clause 8.9, RSS-Gen Issue 5 clause 8.10 | /         | Pass   |
| 7                                                                                                                                                | Power Line Conducted Emissions   | FCC Part 15: 15.207(a), RSS-Gen Issue 5 clause 8.8                                                                                                    | /         | Pass   |
| 8                                                                                                                                                | Antenna Requirement              | FCC Part 15: 15.203, RSS-Gen Issue 5 clause 6.8                                                                                                       | /         | 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                 | : Wireless Subwoofer                          |
| Model Number             | : ENCHANT SUB                                 |
| EUT Function Description | : Please reference user manual of this device |
| Power Supply             | : AC 100-240V ~ 50/60Hz 100W                  |

Note: This EUT support 2.4 GHz WLAN, 5 GHz WLAN, this report only for 2.4 GHz WLAN.

|                     |                                                                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Radio Technology    | : IEEE 802.11b/g/n/ax                                                                                                                                                                                                      |
| Operation frequency | : IEEE 802.11b: 2412MHz-2462MHz<br>IEEE 802.11g: 2412MHz-2462MHz<br>IEEE 802.11n HT20: 2412MHz-2462MHz<br>IEEE 802.11n HT40: 2422MHz-2452MHz<br>IEEE 802.11ax HE20: 2412MHz-2462MHz<br>IEEE 802.11ax HE40: 2422MHz-2452MHz |
| Modulation          | : IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)<br>IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ax: OFDM, OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)       |

| Antenna information   |                    |           |           |
|-----------------------|--------------------|-----------|-----------|
| Antenna Type          |                    | FPC       |           |
| /                     |                    | Ant1 gain | Ant2 gain |
| Max Antenna Gain(dBi) | IEEE 802.11b       | 1.79      | 1.76      |
|                       | IEEE 802.11g       | 1.79      | 1.76      |
|                       | IEEE 802.11n HT20  | 1.79      | 1.76      |
|                       | IEEE 802.11n HT40  | 1.79      | 1.76      |
|                       | IEEE 802.11ax HE20 | 1.79      | 1.76      |
|                       | IEEE 802.11ax HE40 | 1.79      | 1.76      |

Note: This product does not support beamforming.

| Channel information |                 |    |                 |    |                 |
|---------------------|-----------------|----|-----------------|----|-----------------|
| CH                  | Frequency (MHz) | CH | Frequency (MHz) | CH | Frequency (MHz) |
| 1                   | 2412            | 5  | 2432            | 9  | 2452            |
| 2                   | 2417            | 6  | 2437            | 10 | 2457            |
| 3                   | 2422            | 7  | 2442            | 11 | 2462            |
| 4                   | 2427            | 8  | 2447            | /  | /               |



| Operating Mode         | Resource Unit          | 26 Tone(2M)   |    |
|------------------------|------------------------|---------------|----|
| IEEE<br>802.11ax(HE20) | Specific Resource Unit | 0             |    |
|                        |                        | 1             |    |
|                        |                        | 2             |    |
|                        |                        | 3             |    |
|                        |                        | 4             |    |
|                        |                        | 5             |    |
|                        |                        | 6             |    |
|                        |                        | 7             |    |
|                        |                        | 8             |    |
|                        | Resource Unit          | 52 Tone(4M)   |    |
|                        | Specific Resource Unit | 37            |    |
|                        |                        | 38            |    |
|                        |                        | 39            |    |
|                        |                        | 40            |    |
|                        | Resource Unit          | 106 Tone(8M)  |    |
|                        | Specific Resource Unit | 53            |    |
|                        |                        | 54            |    |
|                        | Resource Unit          | 242 Tone(20M) |    |
|                        | Specific Resource Unit | 61            |    |
| Operating Mode         | Resource Unit          | 26 Tone(2M)   |    |
| IEEE<br>802.11ax(HE40) | Specific Resource Unit | 0             | 9  |
|                        |                        | 1             | 10 |
|                        |                        | 2             | 11 |
|                        |                        | 3             | 12 |
|                        |                        | 4             | 13 |
|                        |                        | 5             | 14 |
|                        |                        | 6             | 15 |
|                        |                        | 7             | 16 |
|                        |                        | 8             | 17 |
|                        | Resource Unit          | 52 Tone(4M)   |    |
|                        | Specific Resource Unit | 37            | 41 |
|                        |                        | 38            | 42 |
|                        |                        | 39            | 43 |
|                        |                        | 40            | 44 |
|                        | Resource Unit          | 106 Tone(8M)  |    |
|                        | Specific Resource Unit | 53            | 55 |
|                        |                        | 54            | 56 |
|                        | Resource Unit          | 242 Tone(20M) |    |

|  |                        |               |    |
|--|------------------------|---------------|----|
|  | Specific Resource Unit | 61            | 62 |
|  | Resource Unit          | 484 Tone(40M) |    |
|  | Specific Resource Unit | 65            |    |

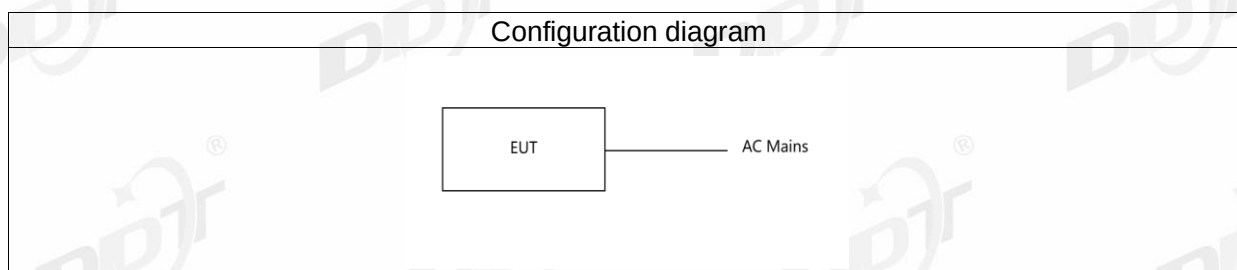
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's 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               |
|-------------|--------------|--------------|---------------------------|
| AC Cable    | Harman       | N/A          | Length: 1.50m, unshielded |

## 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: adb.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, channel, and data rate information                                                                                     |                       |                       |                                |           |                 |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|--------------------------------|-----------|-----------------|
| Mode                                                                                                                                | Setting Tx Power      |                       | Data rate (Mbps)<br>(see Note) | Channel   | Frequency (MHz) |
|                                                                                                                                     | ANT1                  | ANT2                  |                                |           |                 |
| IEEE 802.11b                                                                                                                        | Default               | Default               | 1                              | LCH: CH1  | 2412            |
|                                                                                                                                     | Default               | Default               | 1                              | MCH: CH6  | 2437            |
|                                                                                                                                     | Default               | Default               | 1                              | HCH: CH11 | 2462            |
| IEEE 802.11g                                                                                                                        | 10                    | 10                    | 6                              | LCH: CH1  | 2412            |
|                                                                                                                                     | 10                    | 10                    | 6                              | MCH: CH6  | 2437            |
|                                                                                                                                     | 10                    | 10                    | 6                              | HCH: CH11 | 2462            |
| IEEE 802.11n<br>HT20                                                                                                                | 8                     | 8                     | MCS 8                          | LCH: CH1  | 2412            |
|                                                                                                                                     | 8                     | 8                     | MCS 8                          | MCH: CH6  | 2437            |
|                                                                                                                                     | 8                     | 8                     | MCS 8                          | HCH: CH11 | 2462            |
| IEEE 802.11n<br>HT40                                                                                                                | 10                    | 10                    | MCS 8                          | LCH: CH3  | 2422            |
|                                                                                                                                     | 10                    | 10                    | MCS 8                          | MCH: CH6  | 2437            |
|                                                                                                                                     | 10                    | 10                    | MCS 8                          | HCH: CH9  | 2452            |
| IEEE 802.11ax<br>HE20                                                                                                               | SU: 8<br>RU: Default  | SU: 8<br>RU: Default  | MCS 0                          | LCH: CH1  | 2412            |
|                                                                                                                                     | SU: 8<br>RU: Default  | SU: 8<br>RU: Default  | MCS 0                          | MCH: CH6  | 2437            |
|                                                                                                                                     | SU: 8<br>RU: Default  | SU: 8<br>RU: Default  | MCS 0                          | HCH: CH11 | 2462            |
| IEEE 802.11ax<br>HE40                                                                                                               | SU: 10<br>RU: Default | SU: 10<br>RU: Default | MCS 0                          | LCH: CH3  | 2422            |
|                                                                                                                                     | SU: 10<br>RU: Default | SU: 10<br>RU: Default | MCS 0                          | MCH: CH6  | 2437            |
|                                                                                                                                     | SU: 10<br>RU: Default | SU: 10<br>RU: Default | MCS 0                          | HCH: CH9  | 2452            |
| Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test. |                       |                       |                                |           |                 |

## 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.

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-20155, 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 (9 kHz – 30 MHz) | 3.44 dB                                                |
| Uncertainty for Radiation Emission test (30 MHz - 1 GHz) | 4.70 dB (Antenna Polarize: V)                          |
|                                                          | 4.84 dB (Antenna Polarize: H)                          |
| Uncertainty for Radiation Emission test (1 GHz - 40 GHz) | 4.10 dB (1 - 6 GHz)                                    |
|                                                          | 4.40 dB (6 GHz - 18 GHz)                               |
|                                                          | 3.54 dB (18 GHz - 26 GHz)                              |
|                                                          | 4.30 dB (26 GHz - 40 GHz)                              |
| Uncertainty for Power line conduction emission test      | 3.34dB (150KHz-30MHz)                                  |
|                                                          | 3.72dB (9KHz-150KHz)                                   |

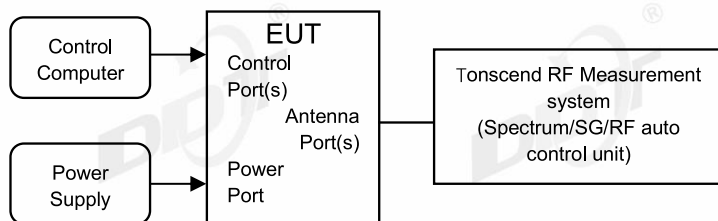
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 3. Equipment Used During Conductive Test

| Equipment                                     | Manufacturer | Model No.   | Serial Number | Due Date   |
|-----------------------------------------------|--------------|-------------|---------------|------------|
| ☑RF Connected Test (RF Measurement System 3#) |              |             |               |            |
| SIGNAL ANALYZER                               | R&S          | FSV40       | 101407        | 2025/07/08 |
| Wideband Radio Communication Tester           | R&S          | CMW500      | 117491        | 2025/03/31 |
| EXG Analog Signal Generator                   | KEYSIGHT     | N5173B      | MY62153058    | 2025/07/08 |
| MXG Vector Signal Generator                   | Agilent      | N5182A      | MY48180912    | 2025/03/31 |
| RF Control Unit                               | Tonscend     | JS0806-2    | 20C8060230    | 2025/03/31 |
| TEMP&HUMI Programmable Chamber                | ZHIXIANG     | ZXGDJS-150L | ZX170110-A    | 2025/04/22 |
| Test Software                                 | Tonscend     | JS1120-3    | Ver.3.2.22    | N/A        |

## 4. 6dB 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 C63.10-2013 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                     |

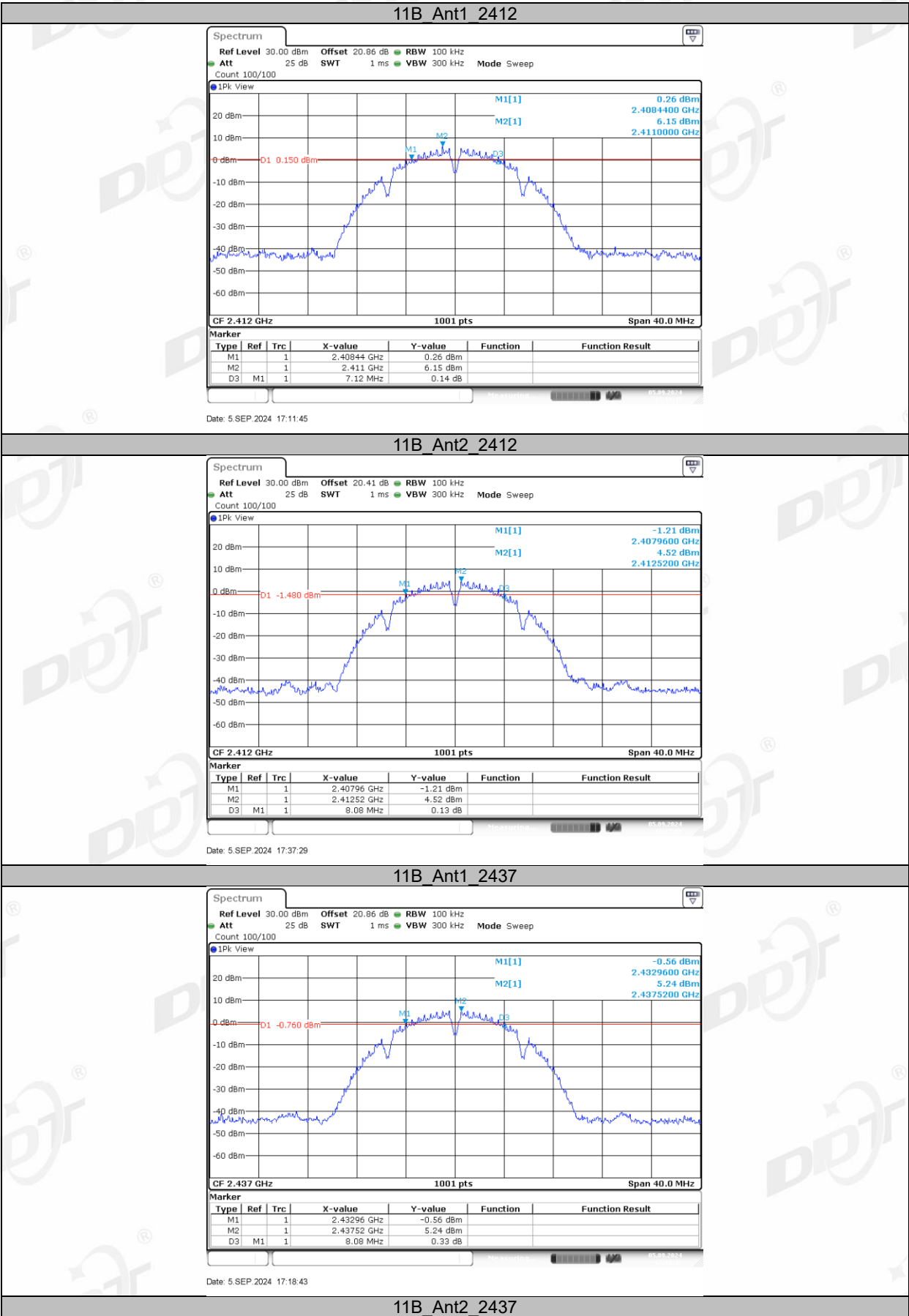
Allow the trace to stabilize, measure the 6 dB bandwidth of signal, and record the results in the report

#### 4.4. Test result

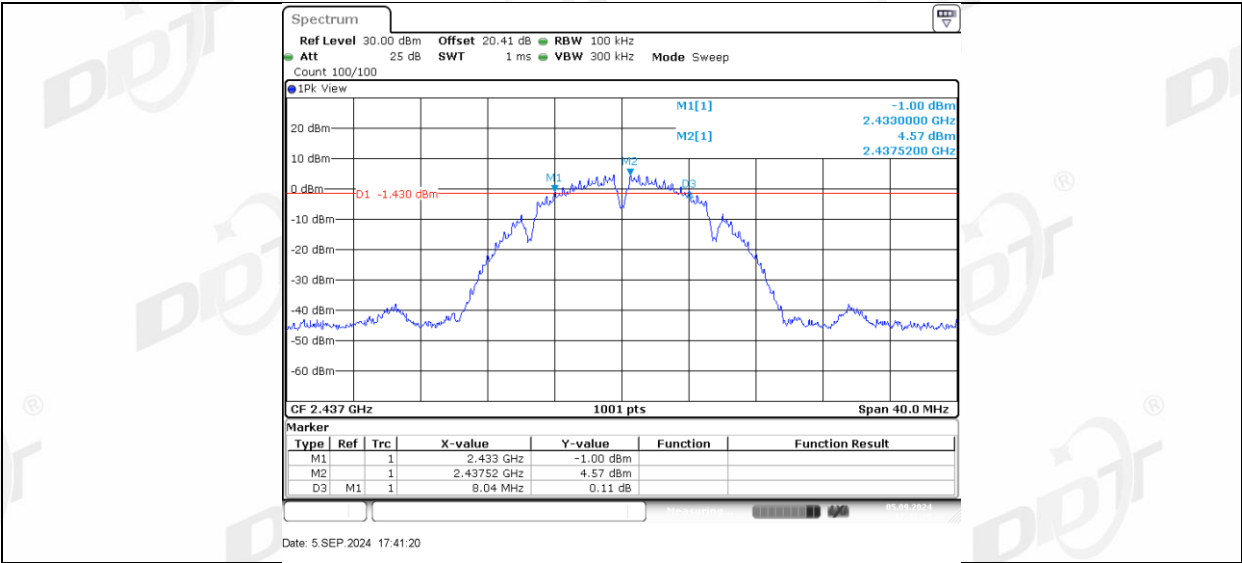
|                    |                         |                |                          |
|--------------------|-------------------------|----------------|--------------------------|
| Test Engineer:     | Zhongyao                | Test Site:     | RF Measurement System 3# |
| Ambient Condition: | 24.6-27.5℃,42.9-48.7%RH | Test Date:     | 2024.09.05-2024.09.11    |
| Test Power Supply: | AC 120V/60Hz            | Sample Number: | S24081429-001            |

| Test Mode  | Antenna | Frequency [MHz] | DTS BW [MHz] | FL [MHz] | FH [MHz] | Limit [MHz] | Verdict |
|------------|---------|-----------------|--------------|----------|----------|-------------|---------|
| 11B        | Ant1    | 2412            | 7.12         | 2408.44  | 2415.56  | 0.5         | PASS    |
|            | Ant2    | 2412            | 8.08         | 2407.96  | 2416.04  | 0.5         | PASS    |
|            | Ant1    | 2437            | 8.08         | 2432.96  | 2441.04  | 0.5         | PASS    |
|            | Ant2    | 2437            | 8.04         | 2433.00  | 2441.04  | 0.5         | PASS    |
|            | Ant1    | 2462            | 8.08         | 2457.96  | 2466.04  | 0.5         | PASS    |
|            | Ant2    | 2462            | 8.08         | 2457.96  | 2466.04  | 0.5         | PASS    |
| 11G        | Ant1    | 2412            | 15.12        | 2404.44  | 2419.56  | 0.5         | PASS    |
|            | Ant2    | 2412            | 15.08        | 2404.48  | 2419.56  | 0.5         | PASS    |
|            | Ant1    | 2437            | 15.80        | 2429.08  | 2444.88  | 0.5         | PASS    |
|            | Ant2    | 2437            | 15.12        | 2429.44  | 2444.56  | 0.5         | PASS    |
|            | Ant1    | 2462            | 15.48        | 2454.08  | 2469.56  | 0.5         | PASS    |
|            | Ant2    | 2462            | 15.48        | 2454.08  | 2469.56  | 0.5         | PASS    |
| 11N20MIMO  | Ant1    | 2412            | 15.12        | 2404.44  | 2419.56  | 0.5         | PASS    |
|            | Ant2    | 2412            | 15.72        | 2404.44  | 2420.16  | 0.5         | PASS    |
|            | Ant1    | 2437            | 15.44        | 2429.44  | 2444.88  | 0.5         | PASS    |
|            | Ant2    | 2437            | 16.52        | 2428.84  | 2445.36  | 0.5         | PASS    |
|            | Ant1    | 2462            | 15.44        | 2454.44  | 2469.88  | 0.5         | PASS    |
|            | Ant2    | 2462            | 17.52        | 2453.24  | 2470.76  | 0.5         | PASS    |
| 11N40MIMO  | Ant1    | 2422            | 35.12        | 2404.48  | 2439.60  | 0.5         | PASS    |
|            | Ant2    | 2422            | 35.12        | 2404.48  | 2439.60  | 0.5         | PASS    |
|            | Ant1    | 2437            | 35.12        | 2419.48  | 2454.60  | 0.5         | PASS    |
|            | Ant2    | 2437            | 35.12        | 2419.48  | 2454.60  | 0.5         | PASS    |
|            | Ant1    | 2452            | 35.12        | 2434.48  | 2469.60  | 0.5         | PASS    |
|            | Ant2    | 2452            | 35.12        | 2434.48  | 2469.60  | 0.5         | PASS    |
| 11AX20MIMO | Ant1    | 2412            | 17.08        | 2404.00  | 2421.08  | 0.5         | PASS    |
|            | Ant2    | 2412            | 18.24        | 2403.00  | 2421.24  | 0.5         | PASS    |
|            | Ant1    | 2437            | 16.68        | 2428.24  | 2444.92  | 0.5         | PASS    |
|            | Ant2    | 2437            | 18.60        | 2427.64  | 2446.24  | 0.5         | PASS    |
|            | Ant1    | 2462            | 18.44        | 2452.84  | 2471.28  | 0.5         | PASS    |
|            | Ant2    | 2462            | 17.28        | 2453.24  | 2470.52  | 0.5         | PASS    |
| 11AX40MIMO | Ant1    | 2422            | 37.28        | 2403.44  | 2440.72  | 0.5         | PASS    |
|            | Ant2    | 2422            | 37.04        | 2403.52  | 2440.56  | 0.5         | PASS    |
|            | Ant1    | 2437            | 37.52        | 2418.36  | 2455.88  | 0.5         | PASS    |
|            | Ant2    | 2437            | 36.80        | 2418.84  | 2455.64  | 0.5         | PASS    |
|            | Ant1    | 2452            | 36.88        | 2433.52  | 2470.40  | 0.5         | PASS    |
|            | Ant2    | 2452            | 35.20        | 2434.40  | 2469.60  | 0.5         | PASS    |

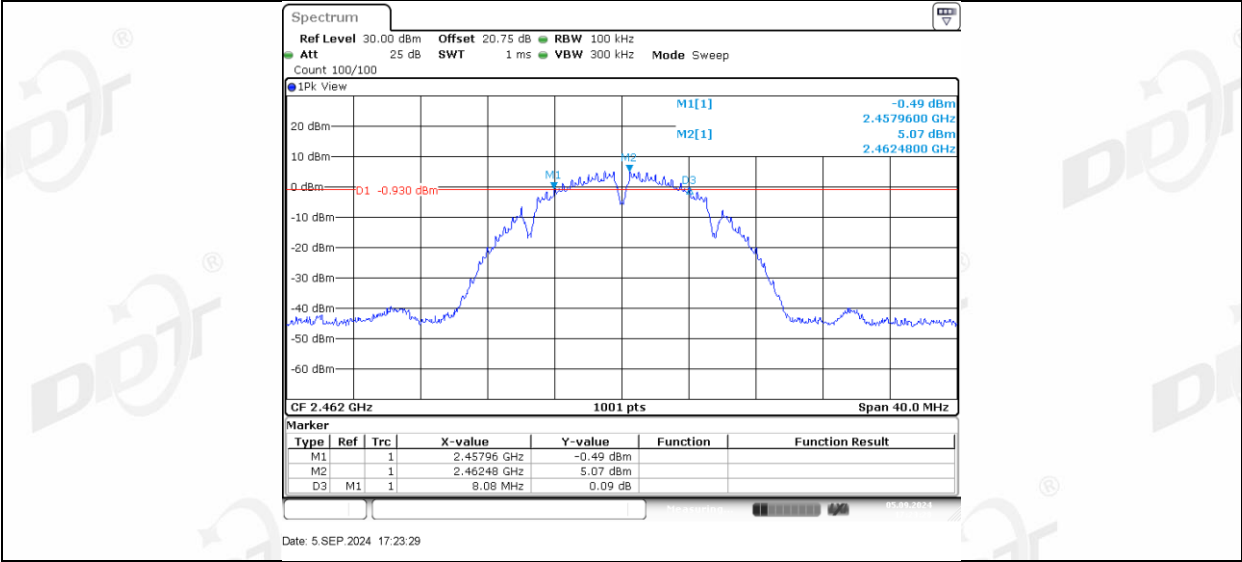
4.5. Test graphs



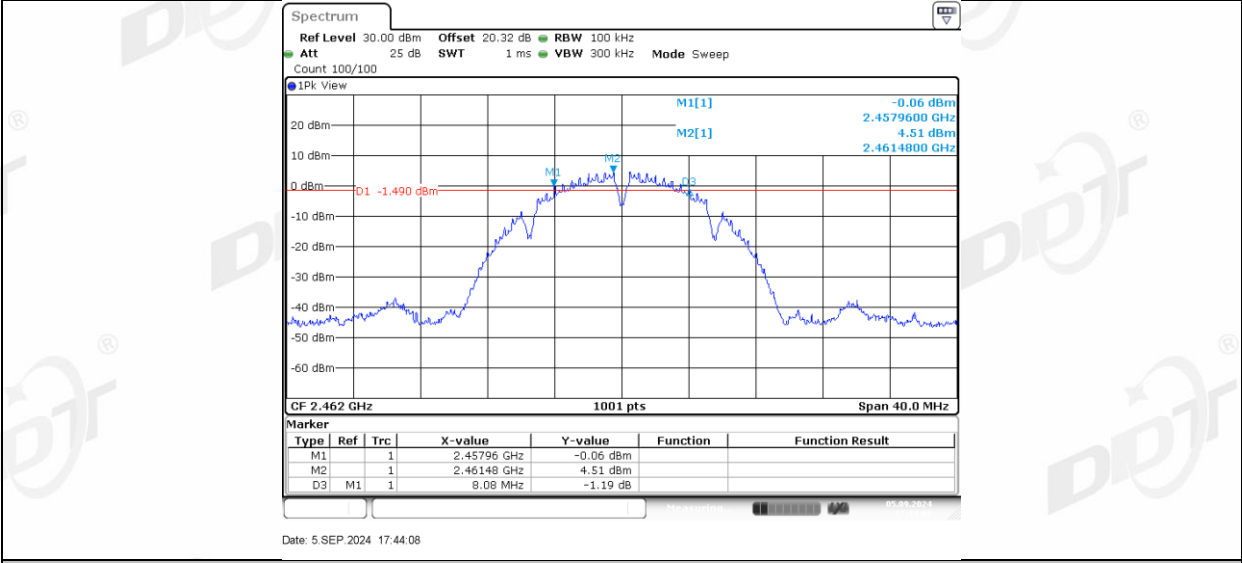




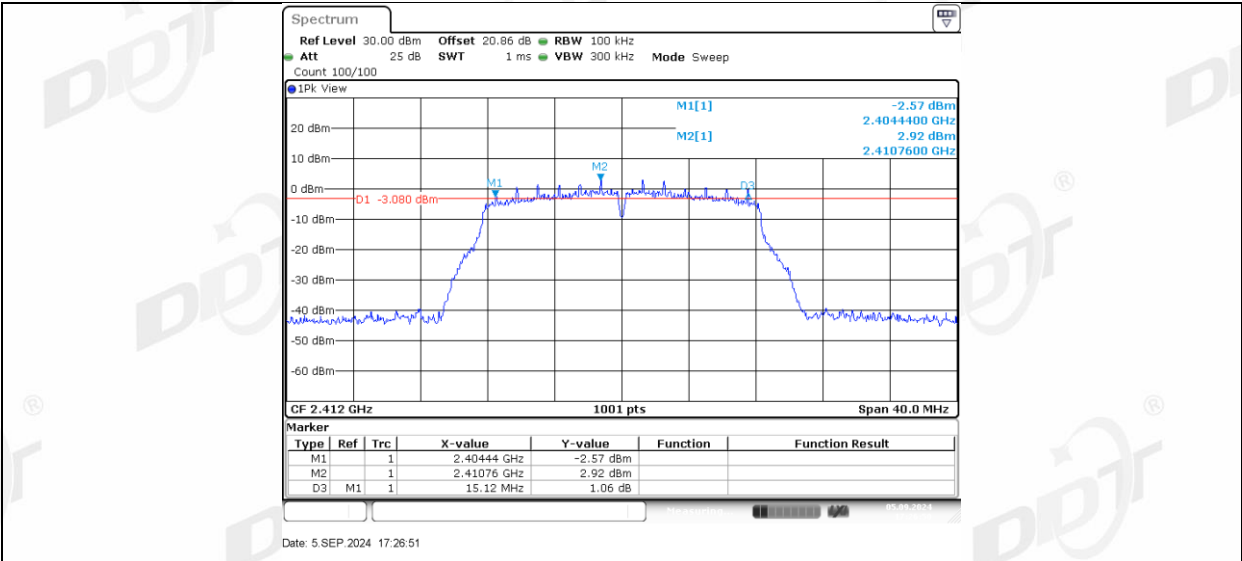
11B\_Ant1\_2462



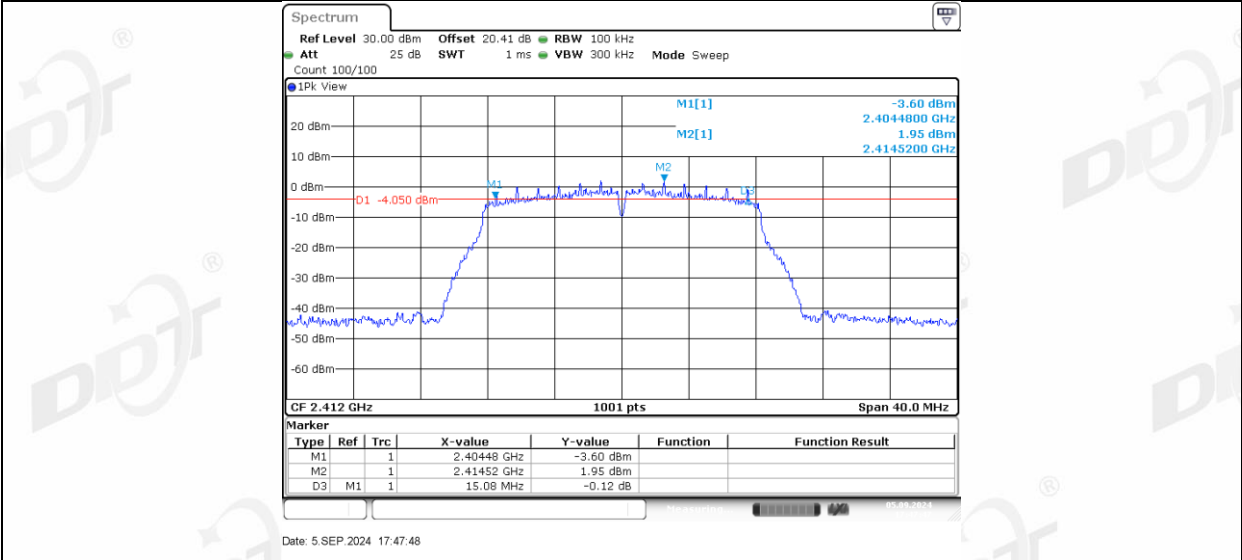
11B\_Ant2\_2462



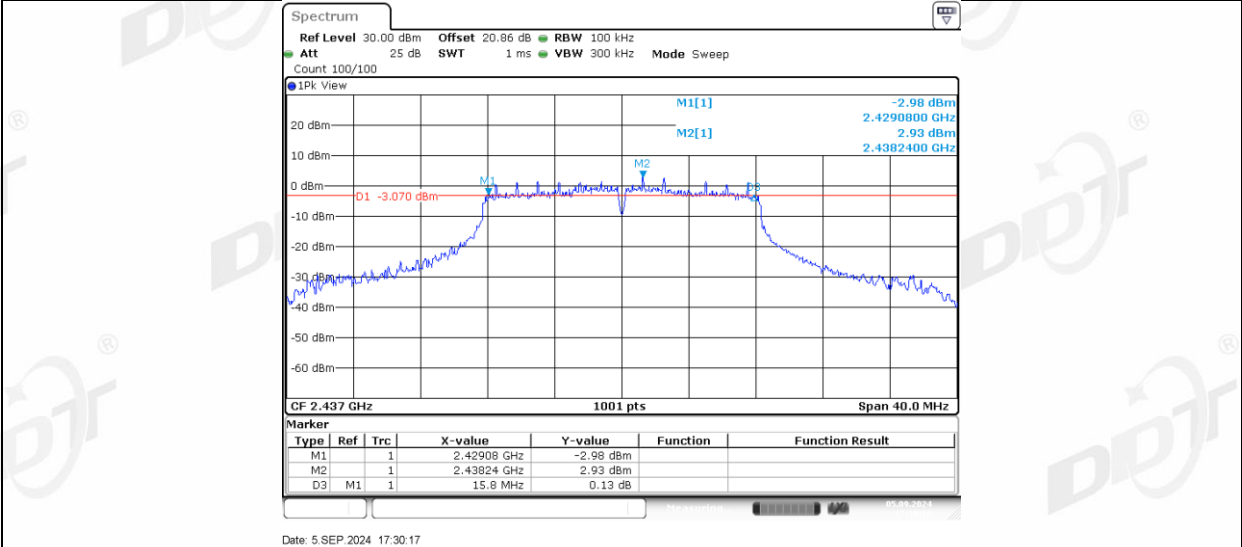
11G\_Ant1\_2412



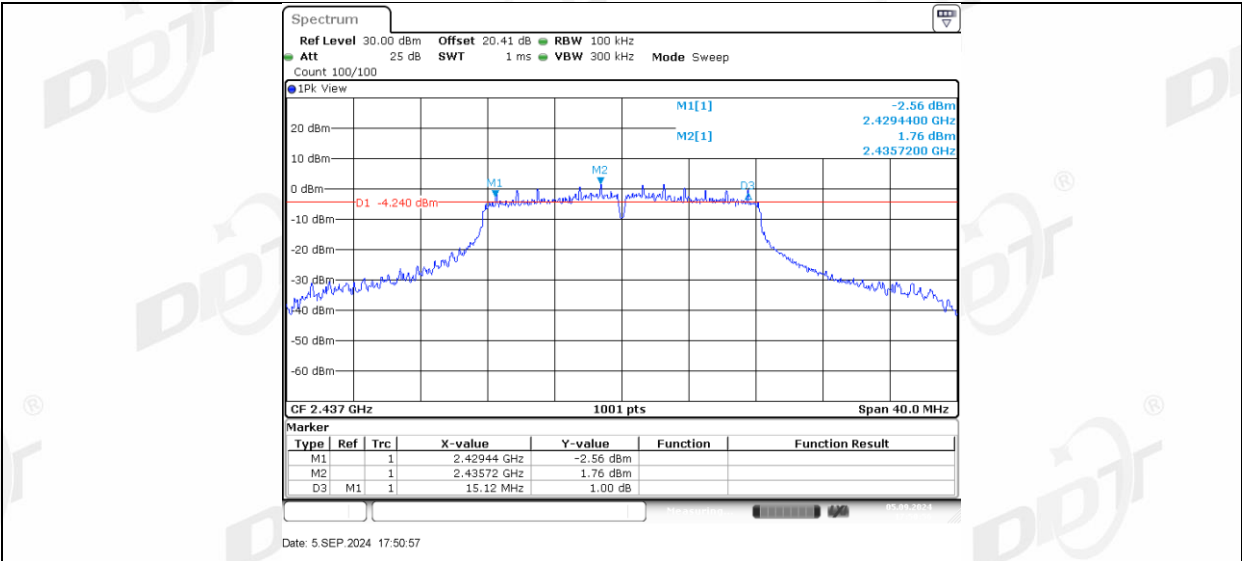
11G Ant2\_2412



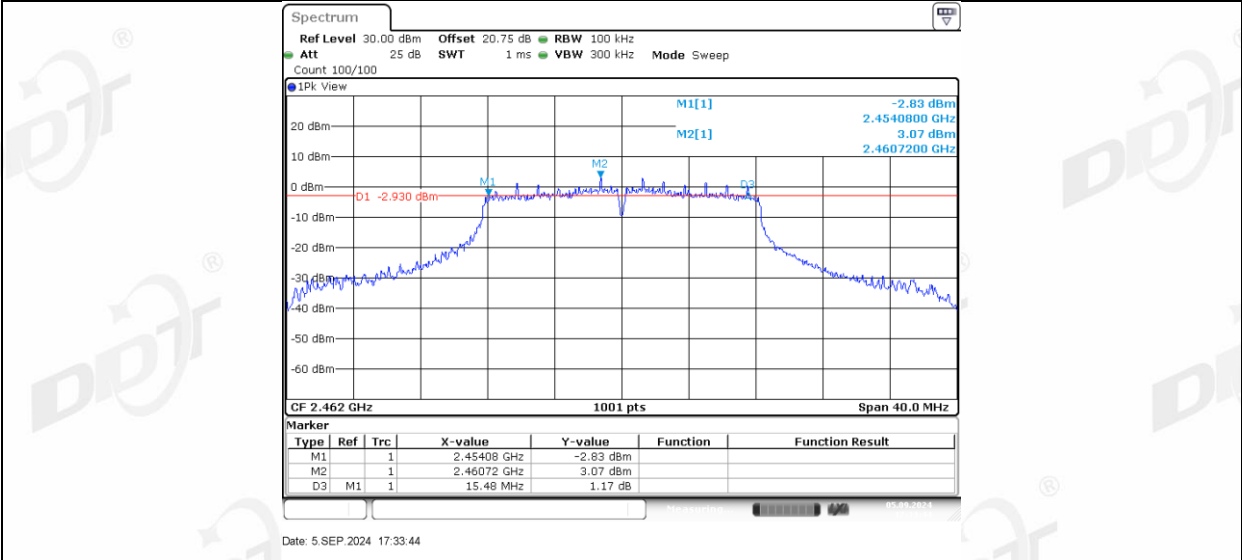
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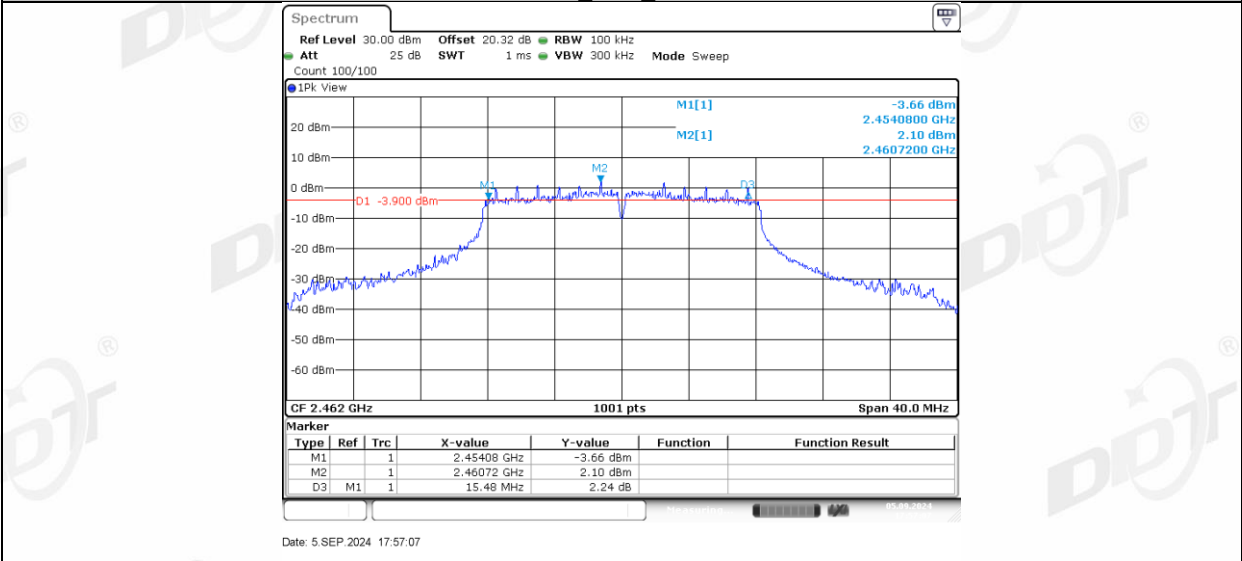
11G Ant2\_2437



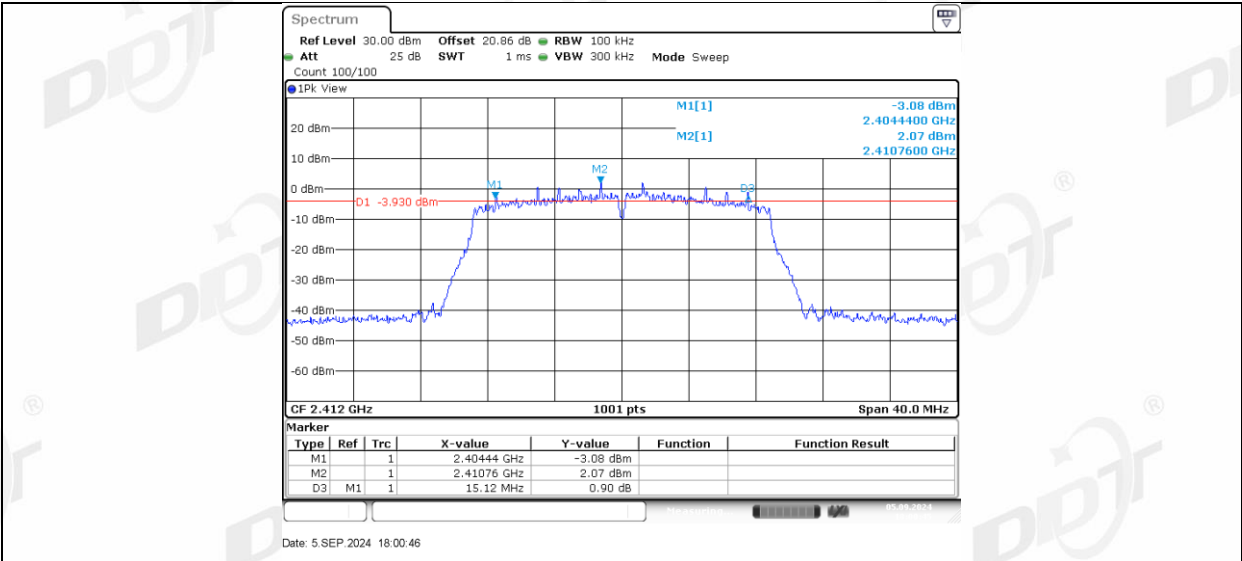
11G Ant1\_2462



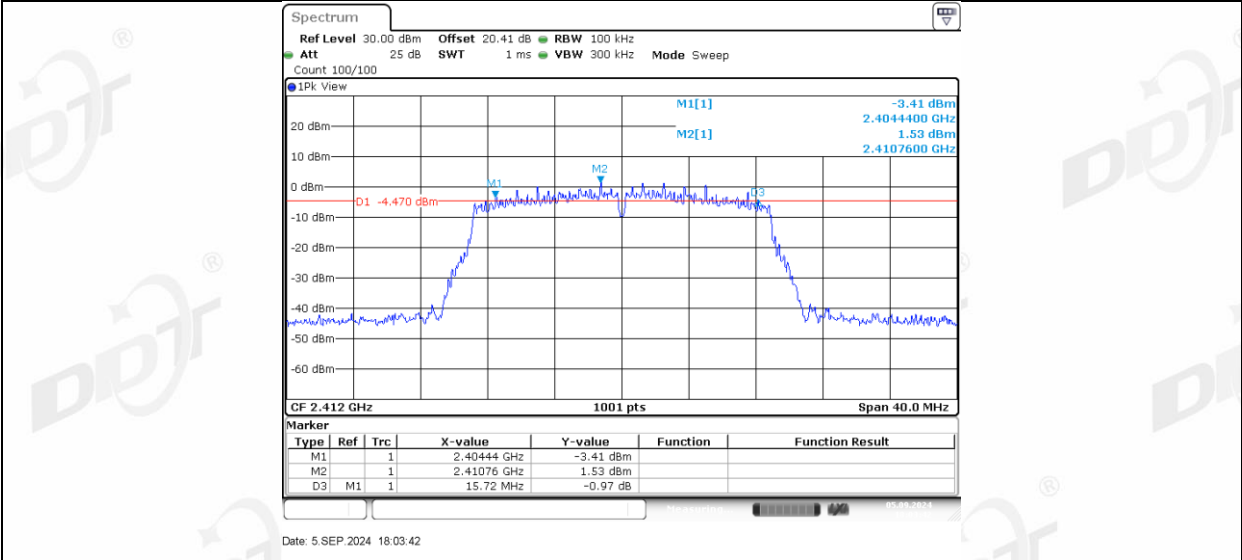
11G Ant2\_2462



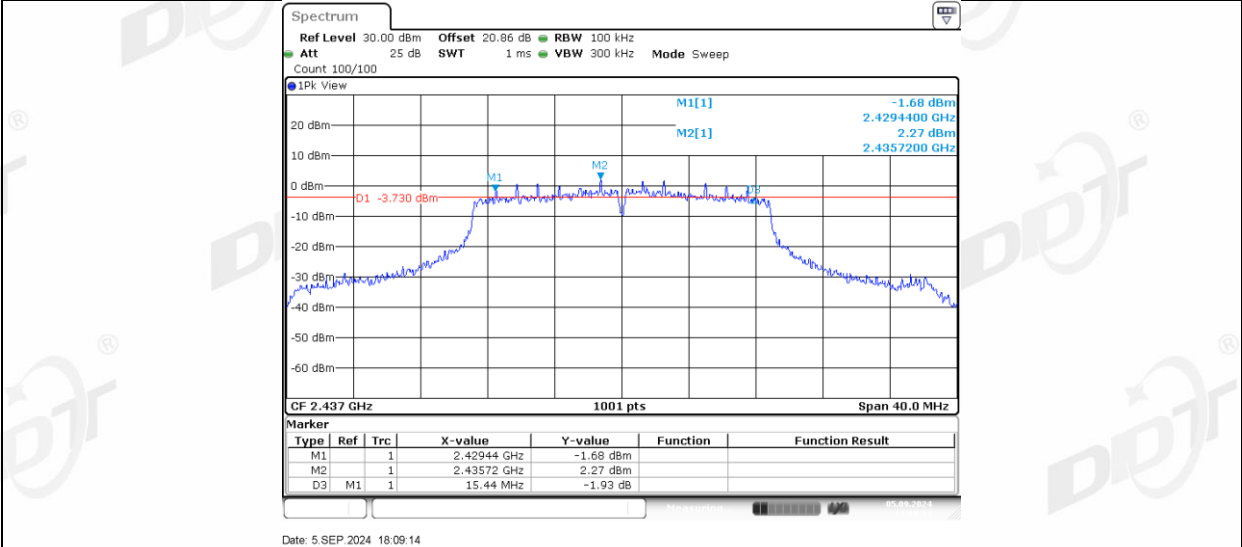
11N20MIMO\_Ant1\_2412



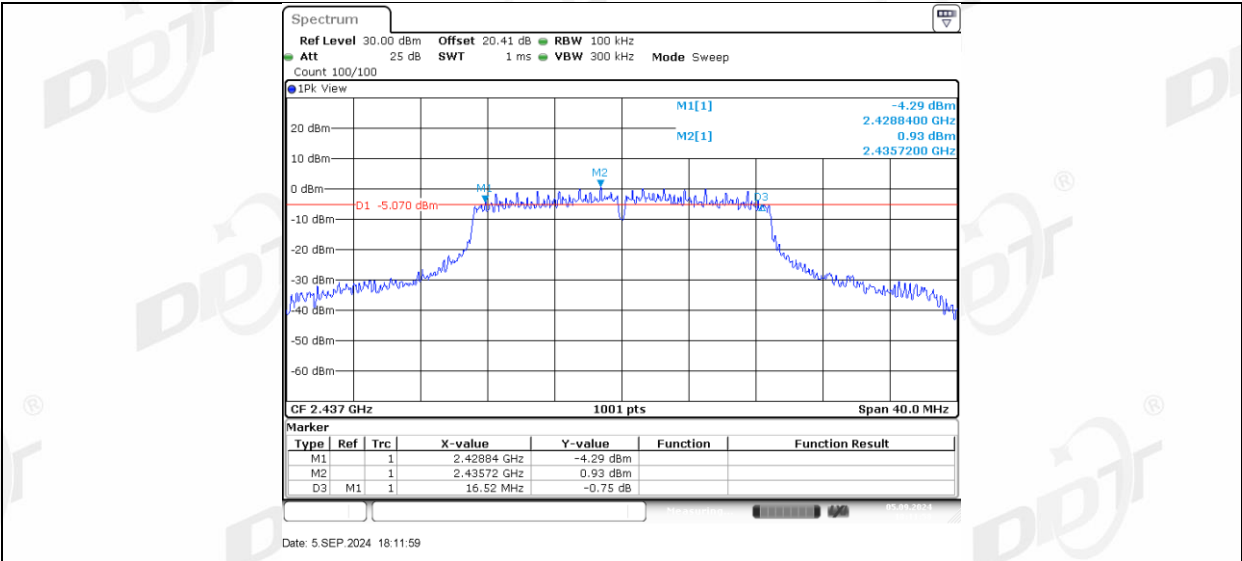
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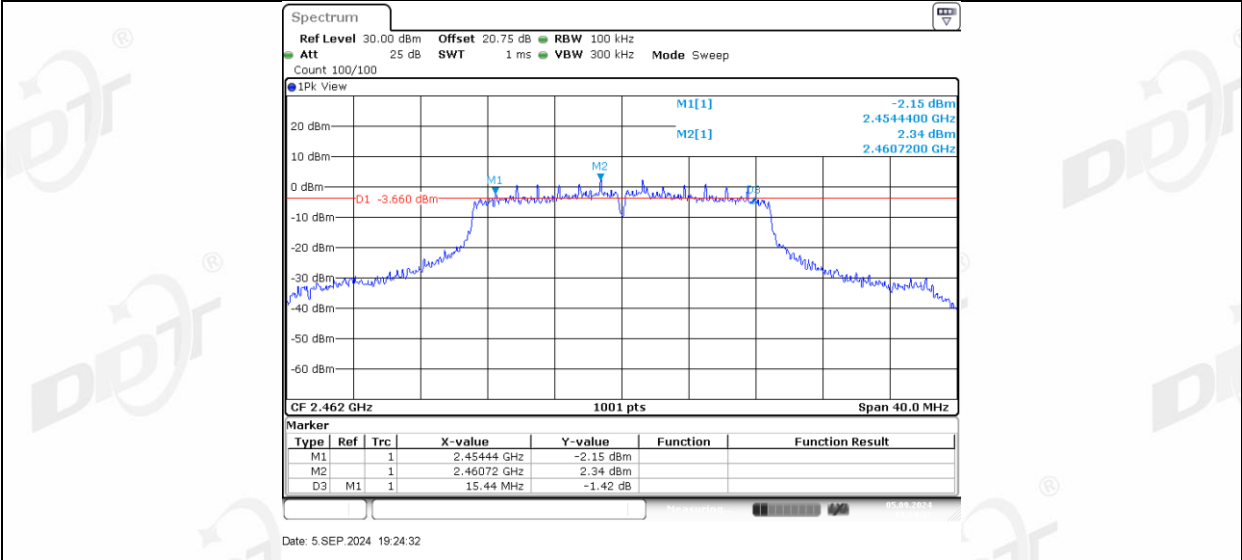
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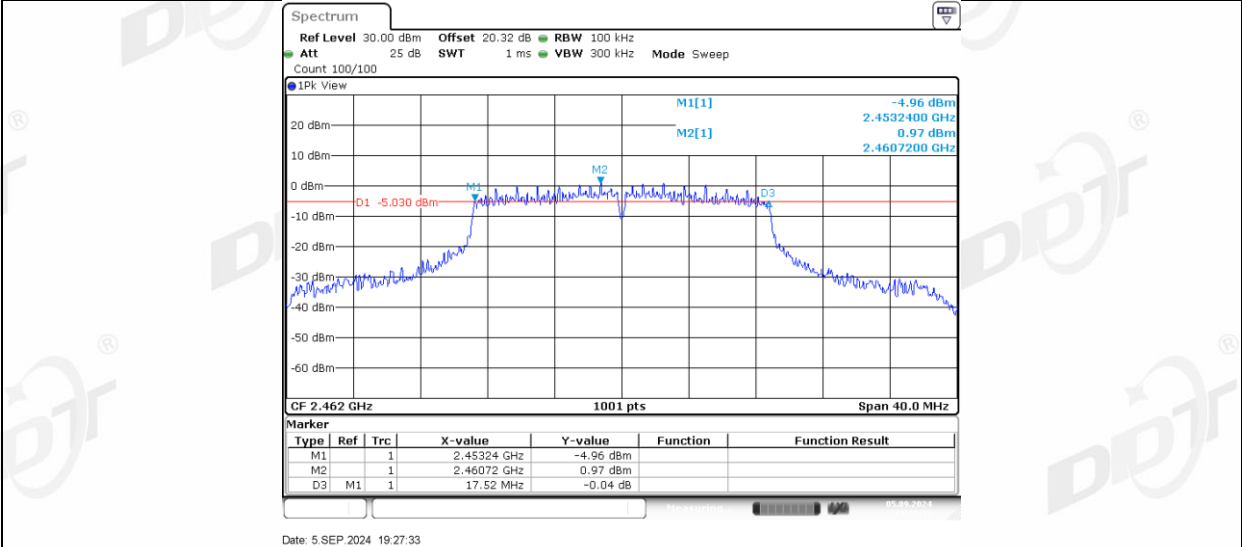
11N20MIMO\_Ant2\_2437



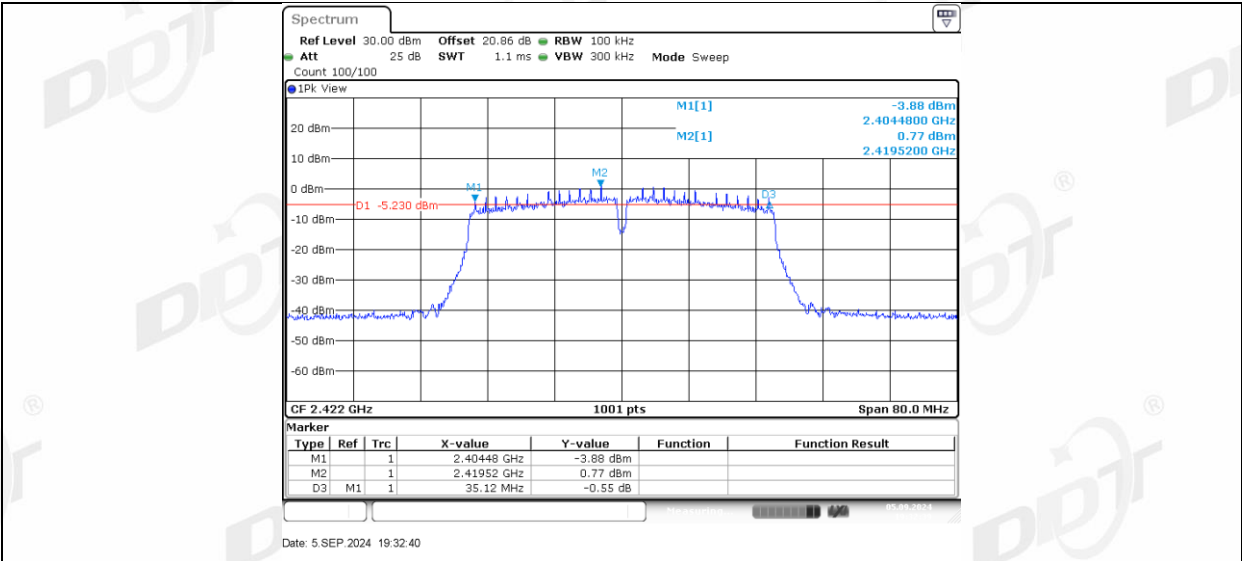
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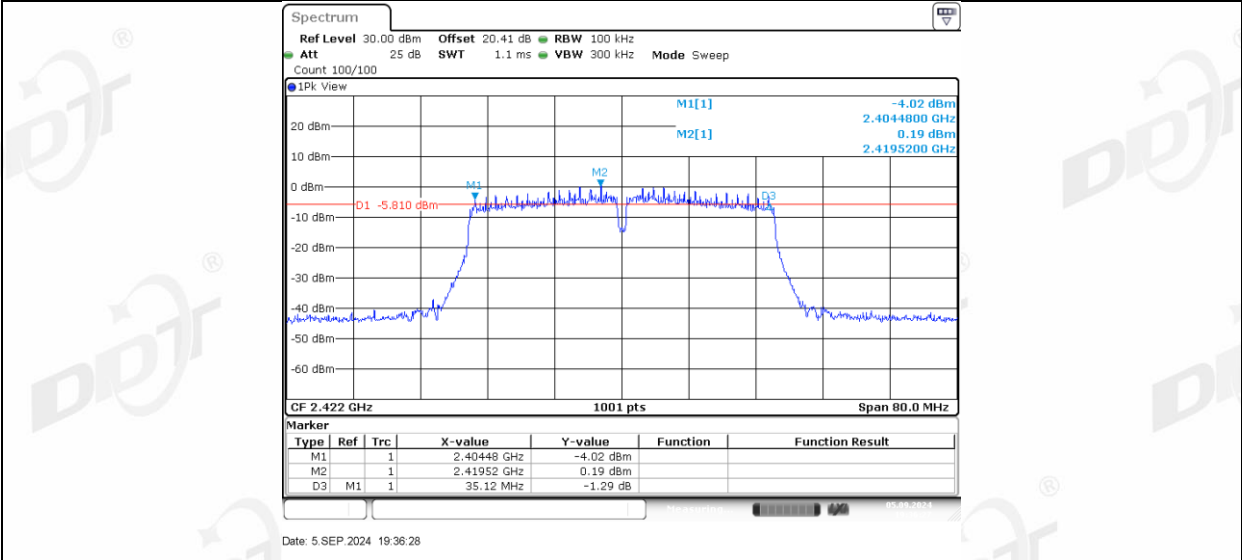
11N20MIMO\_Ant2\_2462



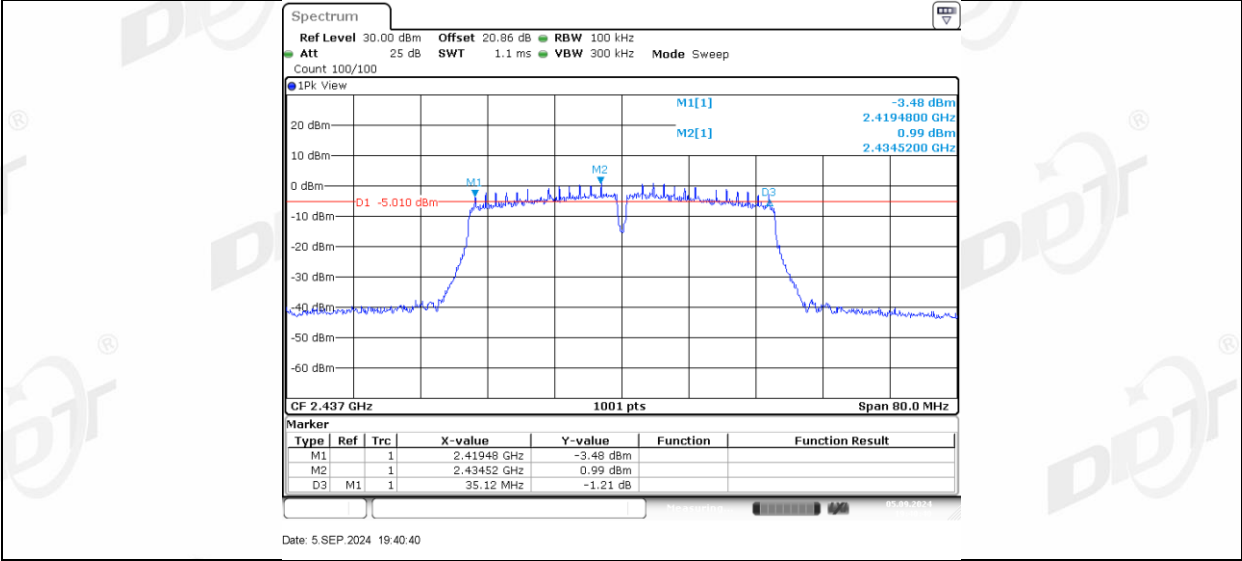
11N40MIMO\_Ant1\_2422



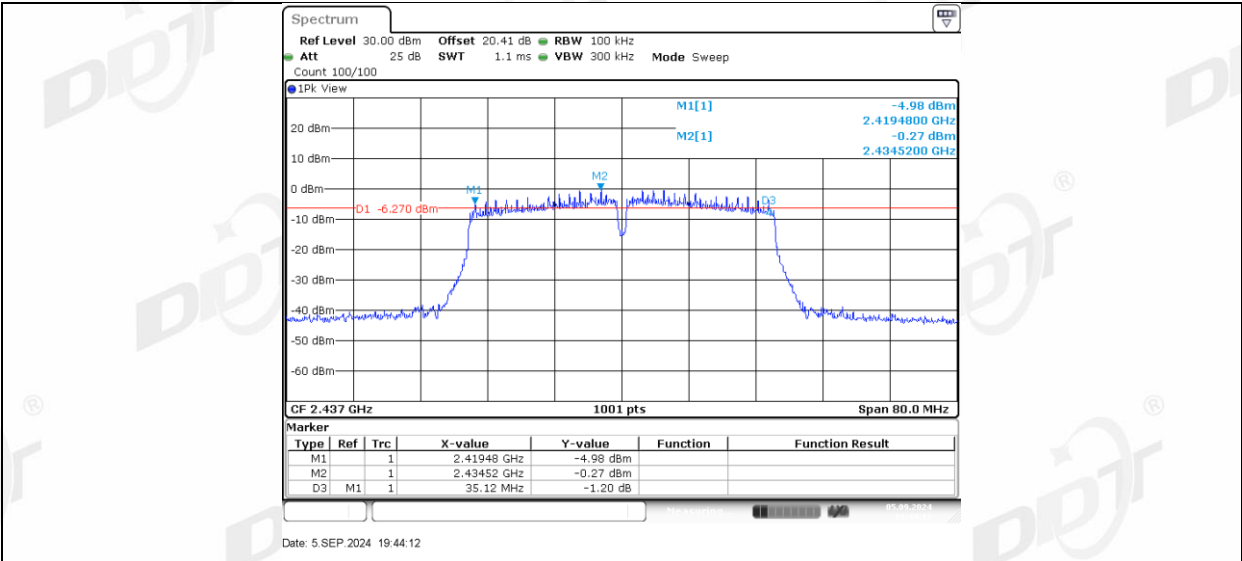
11N40MIMO\_Ant2\_2422



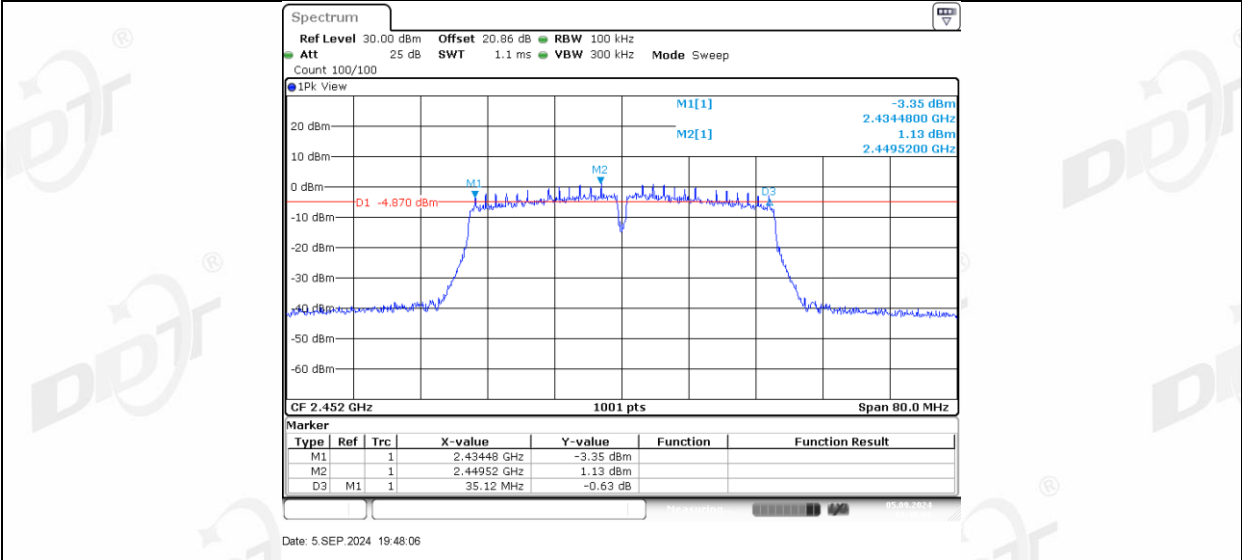
11N40MIMO\_Ant1\_2437



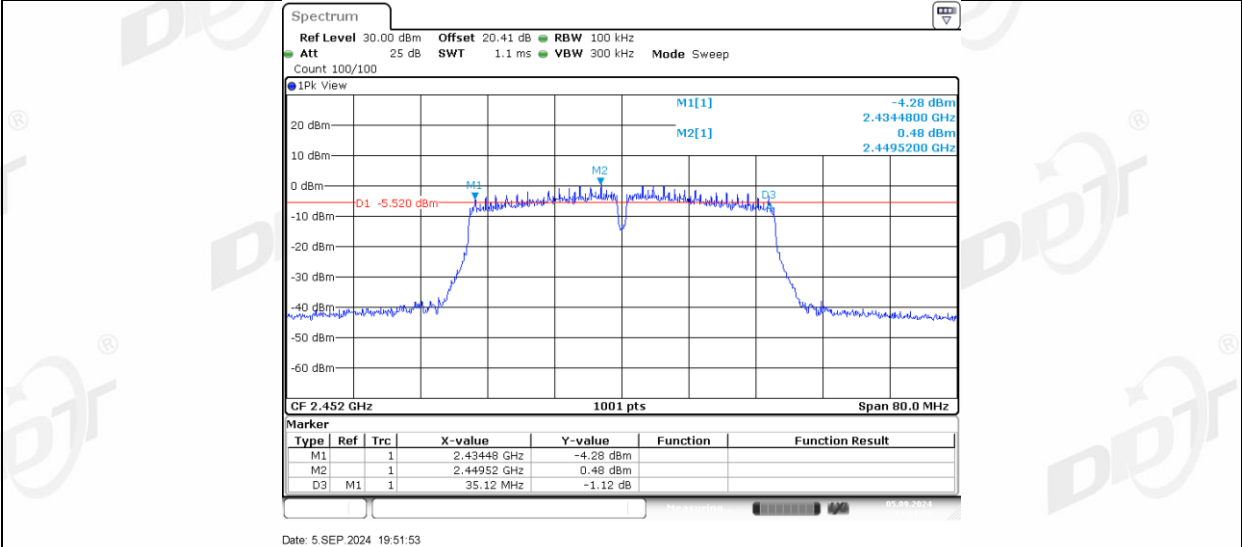
11N40MIMO\_Ant2\_2437



11N40MIMO\_Ant1\_2452

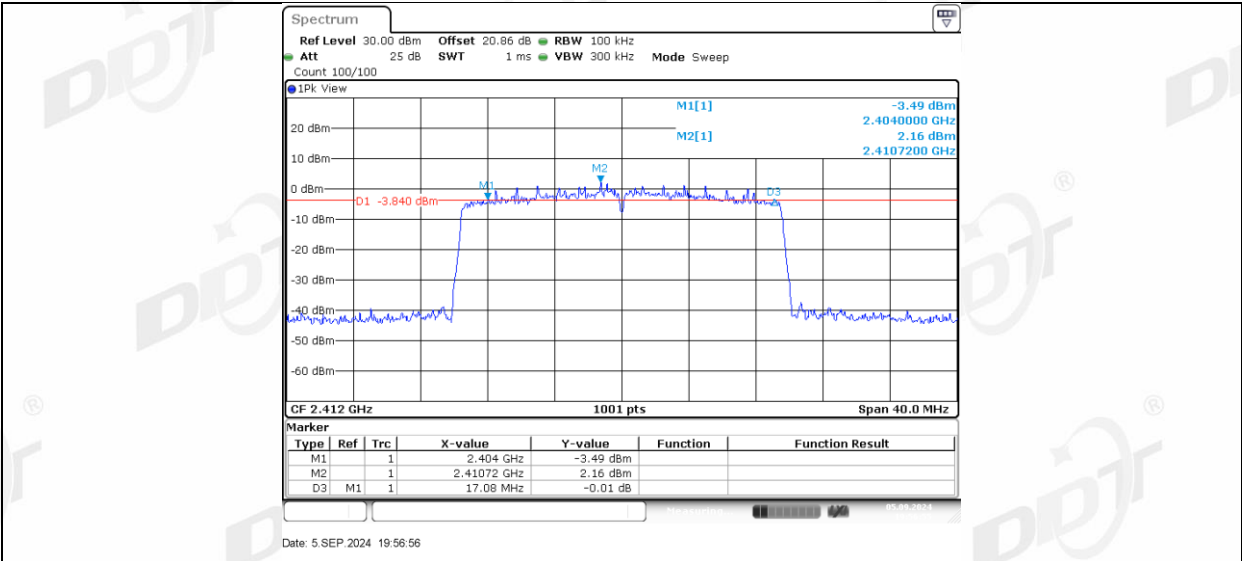


11N40MIMO\_Ant2\_2452

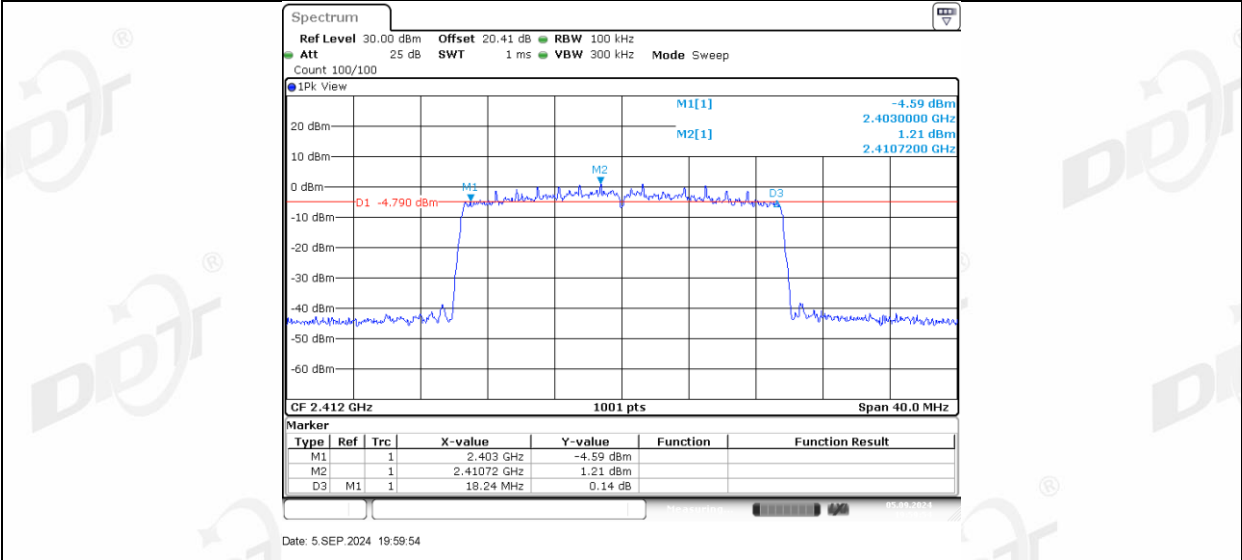


11AX20MIMO\_Ant1\_2412

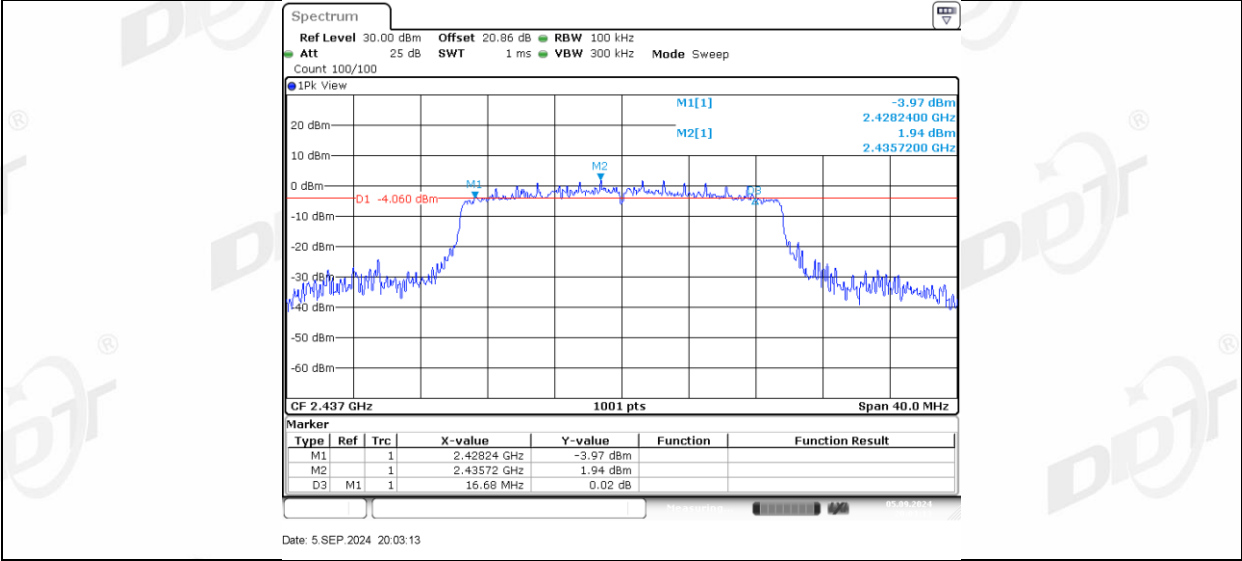




11AX20MIMO\_Ant2\_2412

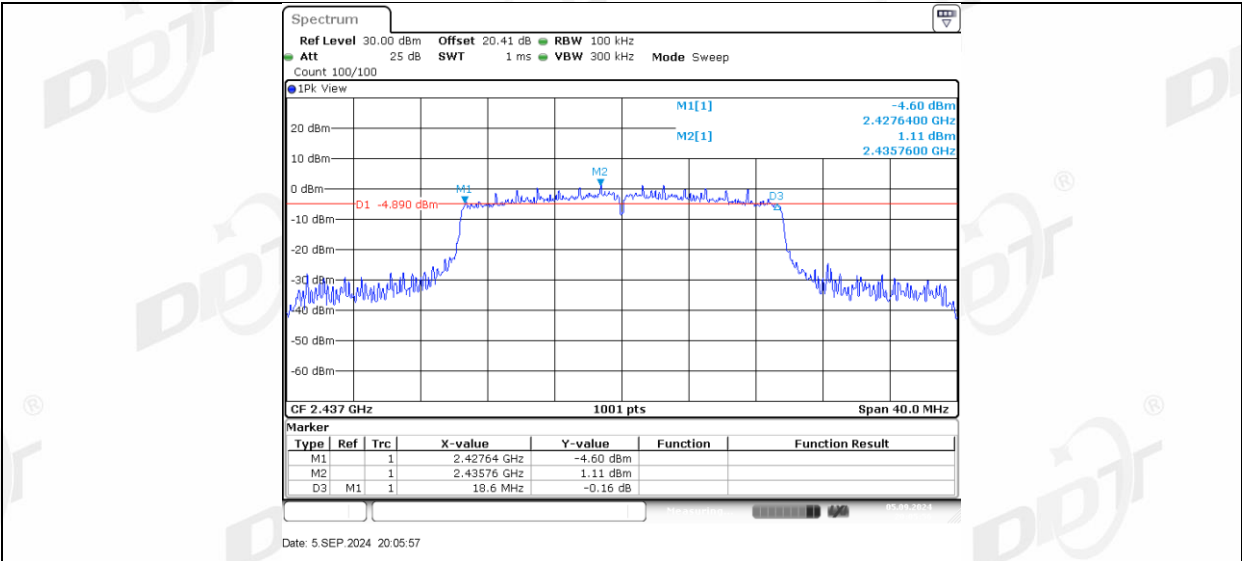


11AX20MIMO\_Ant1\_2437

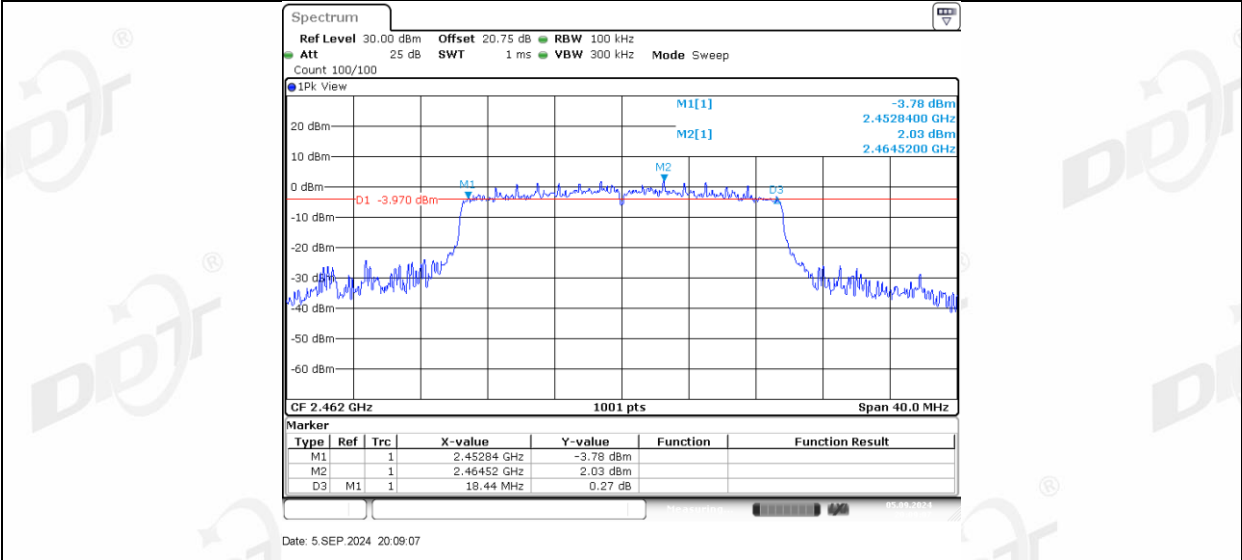


11AX20MIMO\_Ant2\_2437

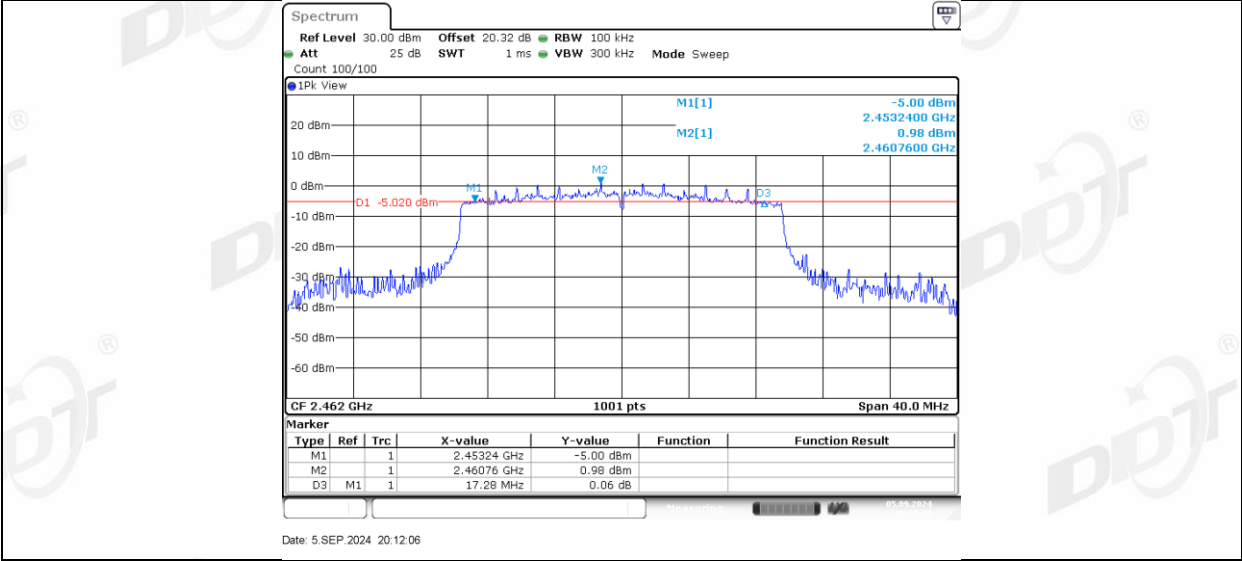




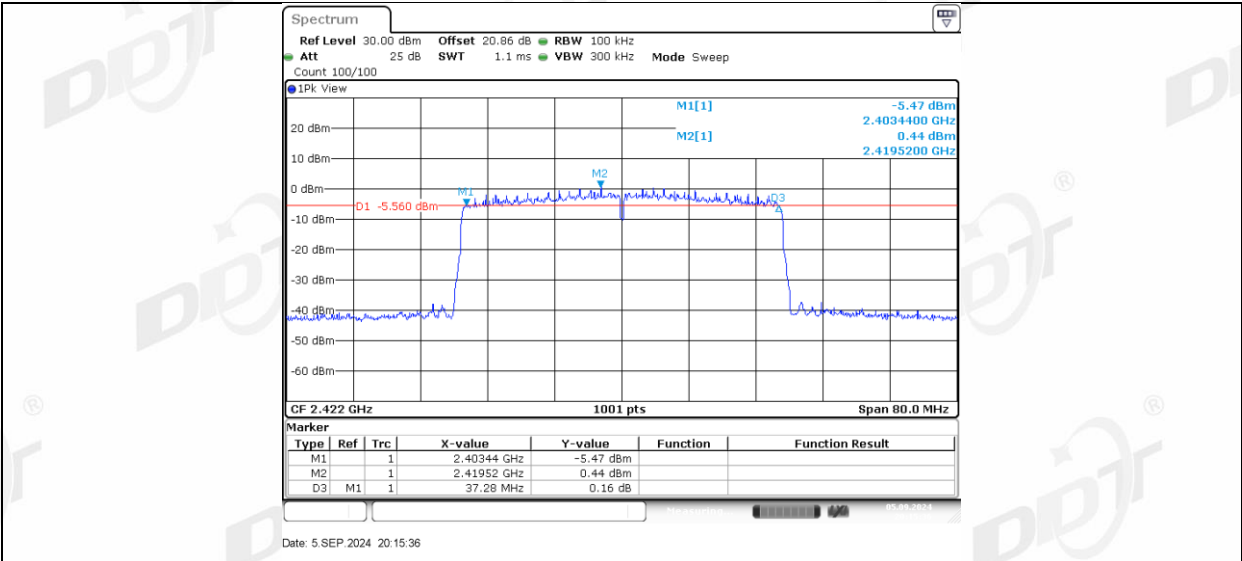
11AX20MIMO\_Ant1\_2462



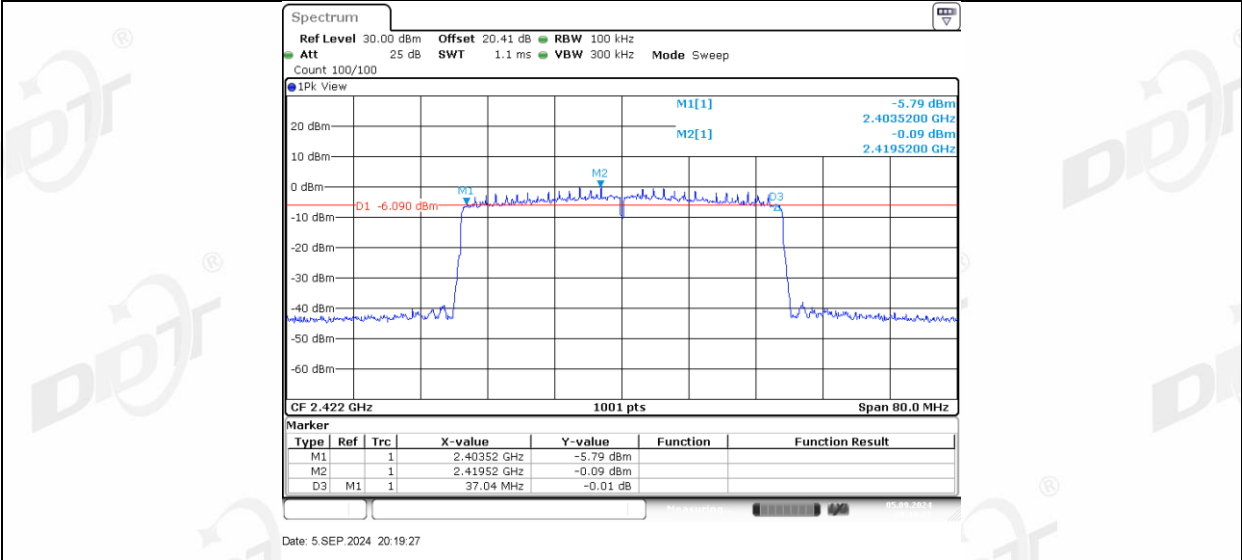
11AX20MIMO\_Ant2\_2462



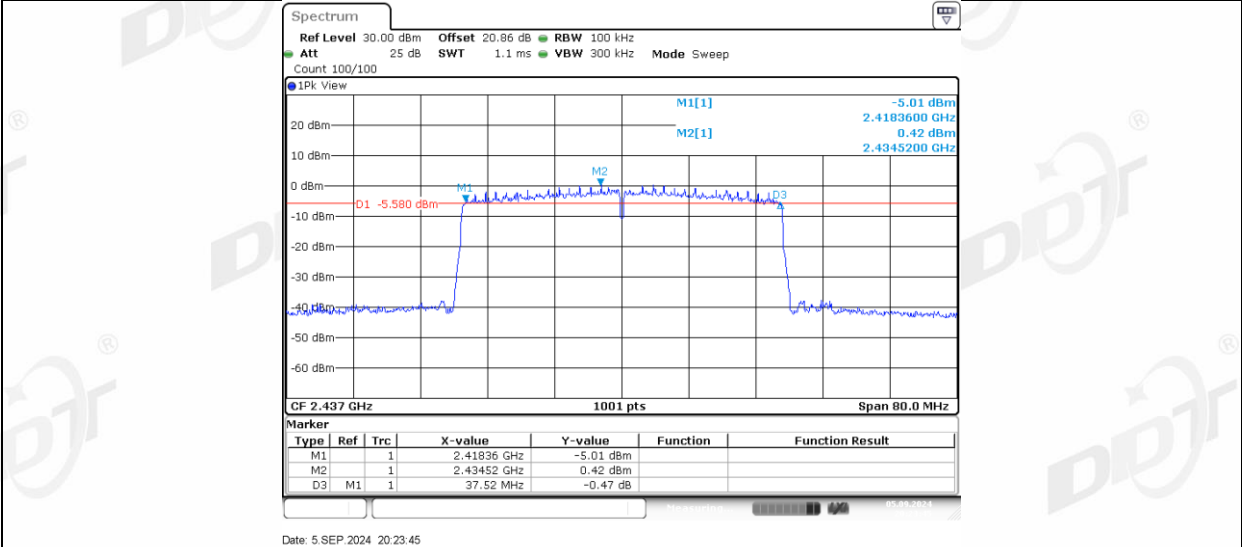
11AX40MIMO\_Ant1\_2422



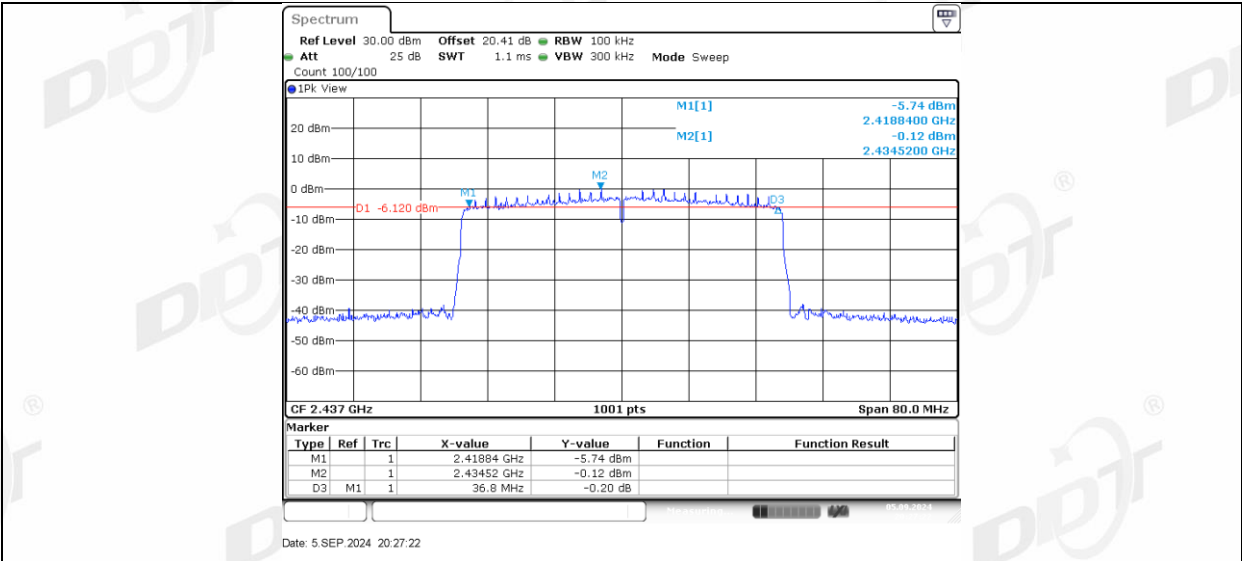
11AX40MIMO\_Ant2\_2422



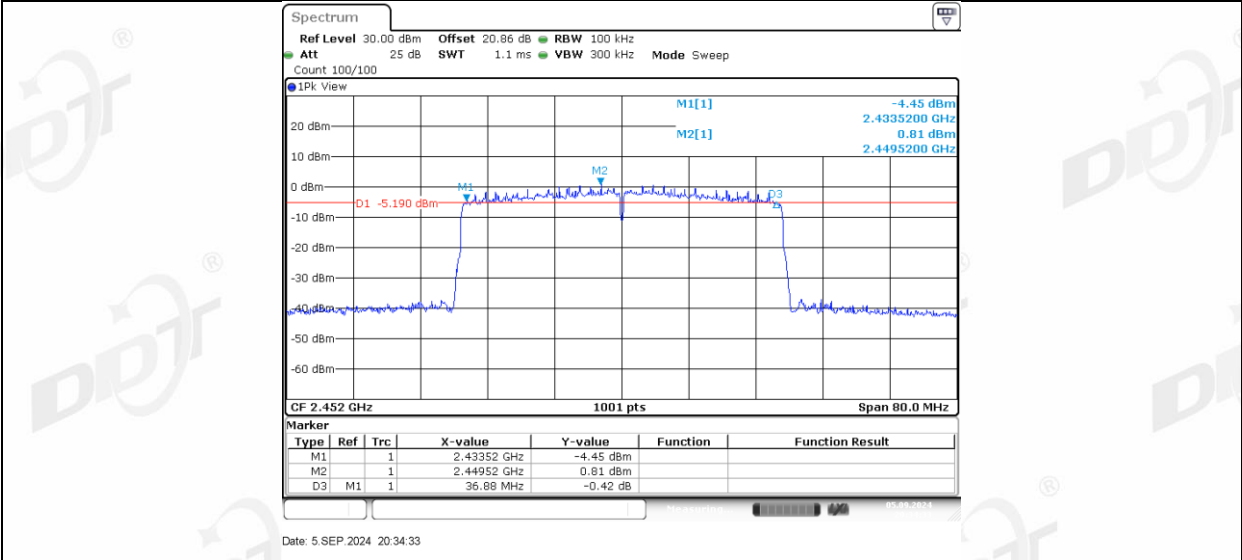
11AX40MIMO\_Ant1\_2437



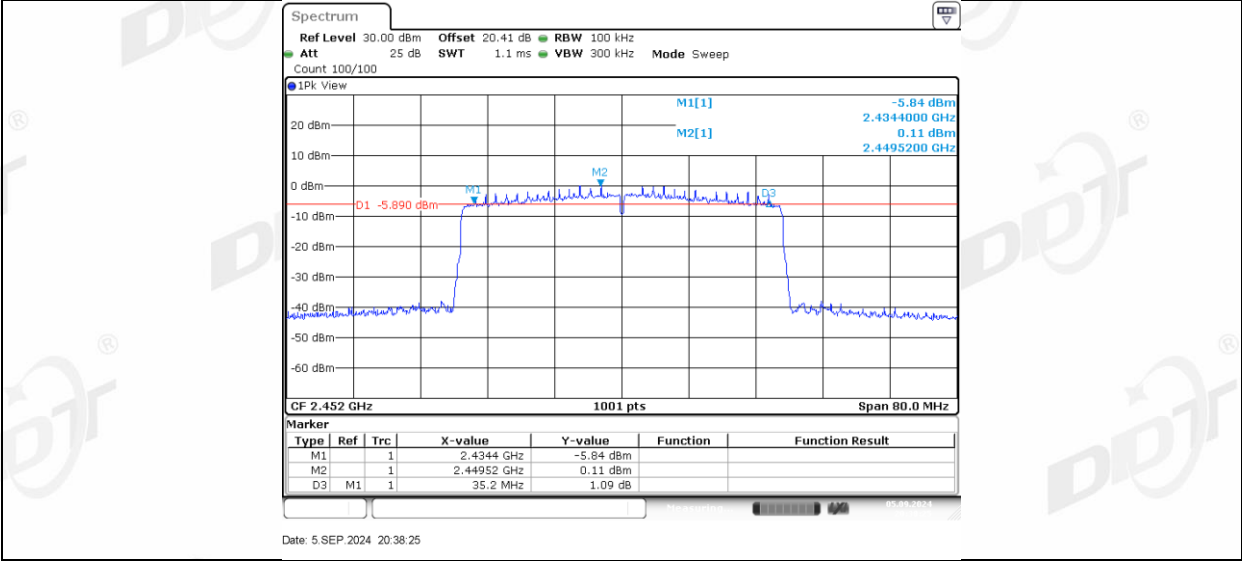
11AX40MIMO\_Ant2\_2437



11AX40MIMO\_Ant1\_2452

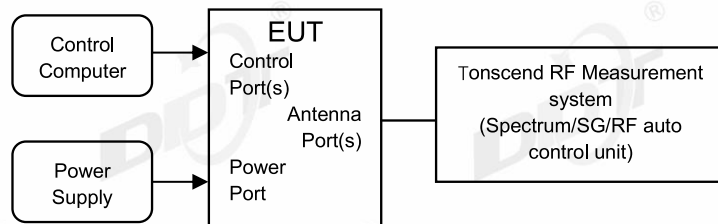


11AX40MIMO\_Ant2\_2452



## 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 C63.10-2013 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                                |

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

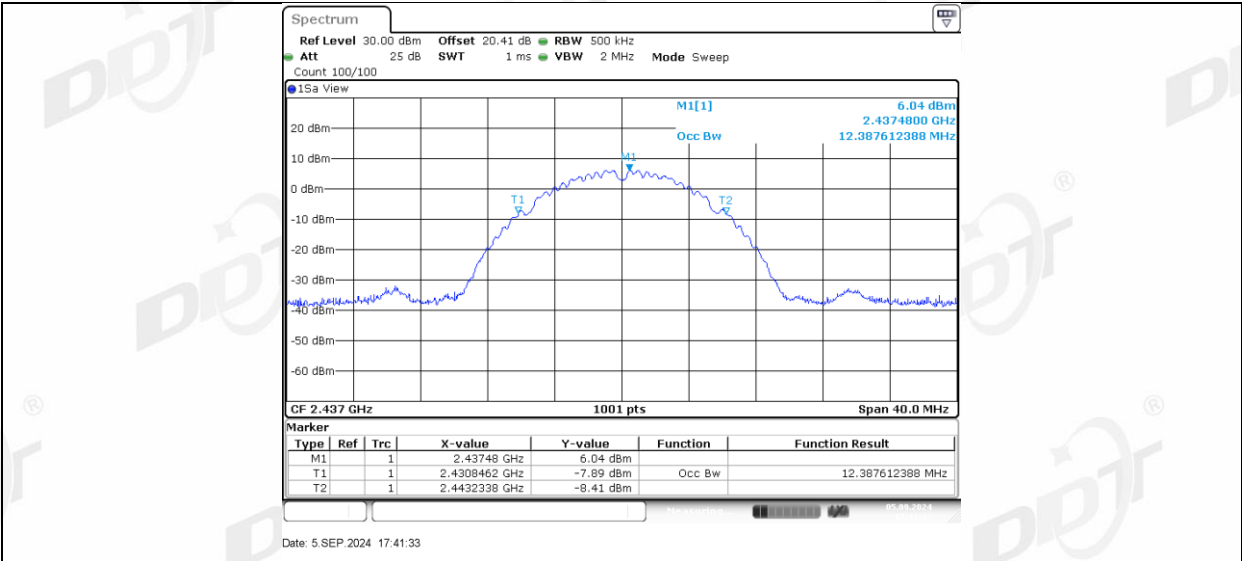
## 5.4. Test result

|                    |                         |                |                          |
|--------------------|-------------------------|----------------|--------------------------|
| Test Engineer:     | Zhongyao                | Test Site:     | RF Measurement System 3# |
| Ambient Condition: | 24.6-27.5℃,42.9-48.7%RH | Test Date:     | 2024.09.05-2024.09.11    |
| Test Power Supply: | AC 120V/60Hz            | Sample Number: | S24081429-001            |

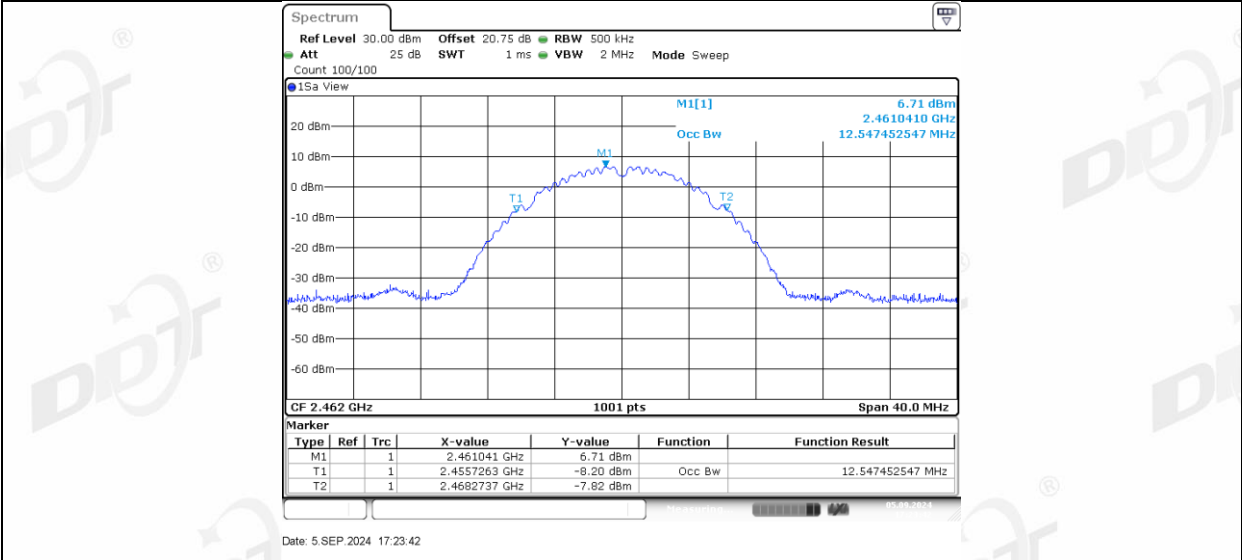
| Test Mode   | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-------------|---------|------------------------|-----------|-----------|-----------|------------|---------|
| 11B         | Ant1    | 2412                   | 12.627    | 2405.6863 | 2418.3137 | ---        | ---     |
|             | Ant2    | 2412                   | 12.388    | 2405.8062 | 2418.1938 | ---        | ---     |
|             | Ant1    | 2437                   | 12.547    | 2430.7263 | 2443.2737 | ---        | ---     |
|             | Ant2    | 2437                   | 12.388    | 2430.8462 | 2443.2338 | ---        | ---     |
|             | Ant1    | 2462                   | 12.547    | 2455.7263 | 2468.2737 | ---        | ---     |
|             | Ant2    | 2462                   | 12.348    | 2455.8062 | 2468.1538 | ---        | ---     |
| 11G         | Ant1    | 2412                   | 17.103    | 2403.4086 | 2420.5115 | ---        | ---     |
|             | Ant2    | 2412                   | 17.103    | 2403.4086 | 2420.5115 | ---        | ---     |
|             | Ant1    | 2437                   | 19.061    | 2427.3696 | 2446.4306 | ---        | ---     |
|             | Ant2    | 2437                   | 19.061    | 2427.4496 | 2446.5105 | ---        | ---     |
|             | Ant1    | 2462                   | 19.101    | 2452.3297 | 2471.4306 | ---        | ---     |
|             | Ant2    | 2462                   | 19.101    | 2452.2498 | 2471.3506 | ---        | ---     |
| 11N20MI MO  | Ant1    | 2412                   | 17.862    | 2403.0490 | 2420.9111 | ---        | ---     |
|             | Ant2    | 2412                   | 17.542    | 2403.2088 | 2420.7512 | ---        | ---     |
|             | Ant1    | 2437                   | 19.62     | 2427.1698 | 2446.7902 | ---        | ---     |
|             | Ant2    | 2437                   | 18.262    | 2427.9291 | 2446.1908 | ---        | ---     |
|             | Ant1    | 2462                   | 19.700    | 2452.1299 | 2471.8302 | ---        | ---     |
|             | Ant2    | 2462                   | 18.262    | 2452.8492 | 2471.1109 | ---        | ---     |
| 11N40MI MO  | Ant1    | 2422                   | 36.124    | 2403.9381 | 2440.0619 | ---        | ---     |
|             | Ant2    | 2422                   | 36.444    | 2403.7782 | 2440.2218 | ---        | ---     |
|             | Ant1    | 2437                   | 36.124    | 2418.9381 | 2455.0619 | ---        | ---     |
|             | Ant2    | 2437                   | 36.364    | 2418.8581 | 2455.2218 | ---        | ---     |
|             | Ant1    | 2452                   | 36.044    | 2433.9381 | 2469.9820 | ---        | ---     |
|             | Ant2    | 2452                   | 36.284    | 2433.8581 | 2470.1419 | ---        | ---     |
| 11AX20M IMO | Ant1    | 2412                   | 18.861    | 2402.5694 | 2421.4306 | ---        | ---     |
|             | Ant2    | 2412                   | 18.861    | 2402.5694 | 2421.4306 | ---        | ---     |
|             | Ant1    | 2437                   | 19.381    | 2427.2897 | 2446.6703 | ---        | ---     |
|             | Ant2    | 2437                   | 19.261    | 2427.3696 | 2446.6304 | ---        | ---     |
|             | Ant1    | 2462                   | 19.301    | 2452.3297 | 2471.6304 | ---        | ---     |
|             | Ant2    | 2462                   | 19.261    | 2452.3297 | 2471.5904 | ---        | ---     |
| 11AX40M IMO | Ant1    | 2422                   | 37.722    | 2403.1389 | 2440.8611 | ---        | ---     |
|             | Ant2    | 2422                   | 37.882    | 2403.0589 | 2440.9411 | ---        | ---     |
|             | Ant1    | 2437                   | 37.802    | 2418.0589 | 2455.8611 | ---        | ---     |
|             | Ant2    | 2437                   | 37.802    | 2418.1389 | 2455.9411 | ---        | ---     |
|             | Ant1    | 2452                   | 37.722    | 2433.1389 | 2470.8611 | ---        | ---     |
|             | Ant2    | 2452                   | 37.722    | 2433.1389 | 2470.8611 | ---        | ---     |

5.5. Test graphs

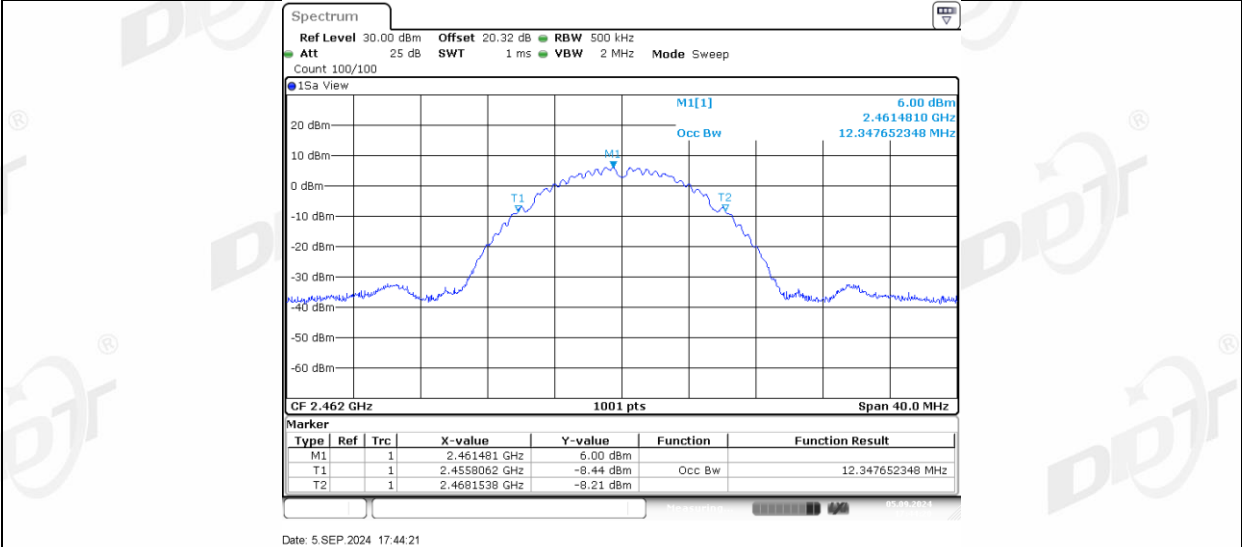




11B\_Ant1\_2462

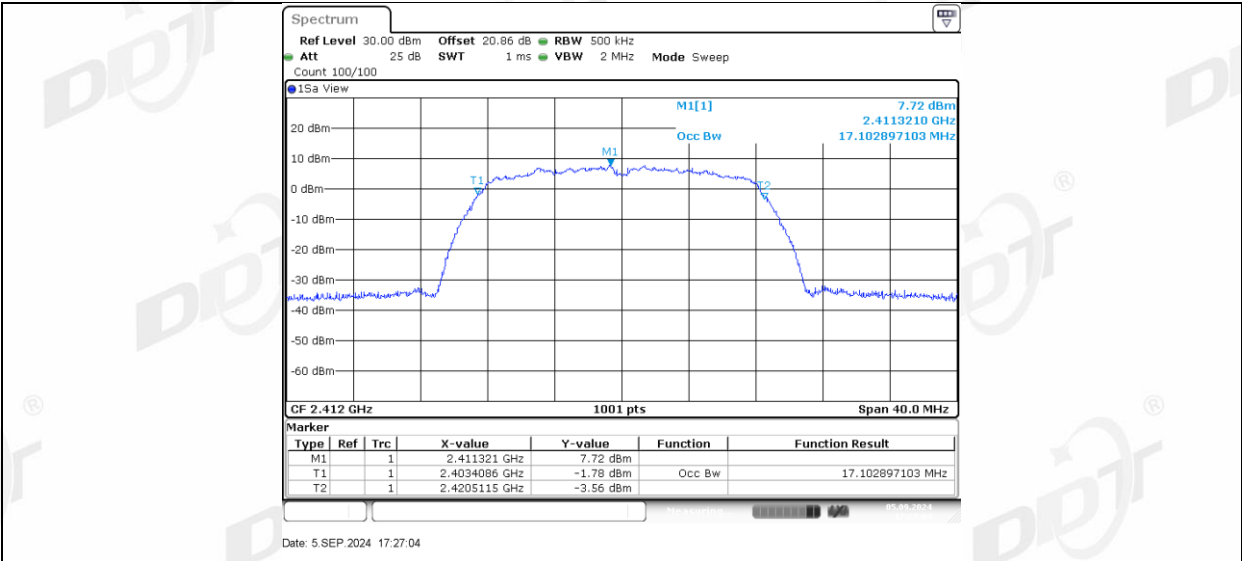


11B\_Ant2\_2462

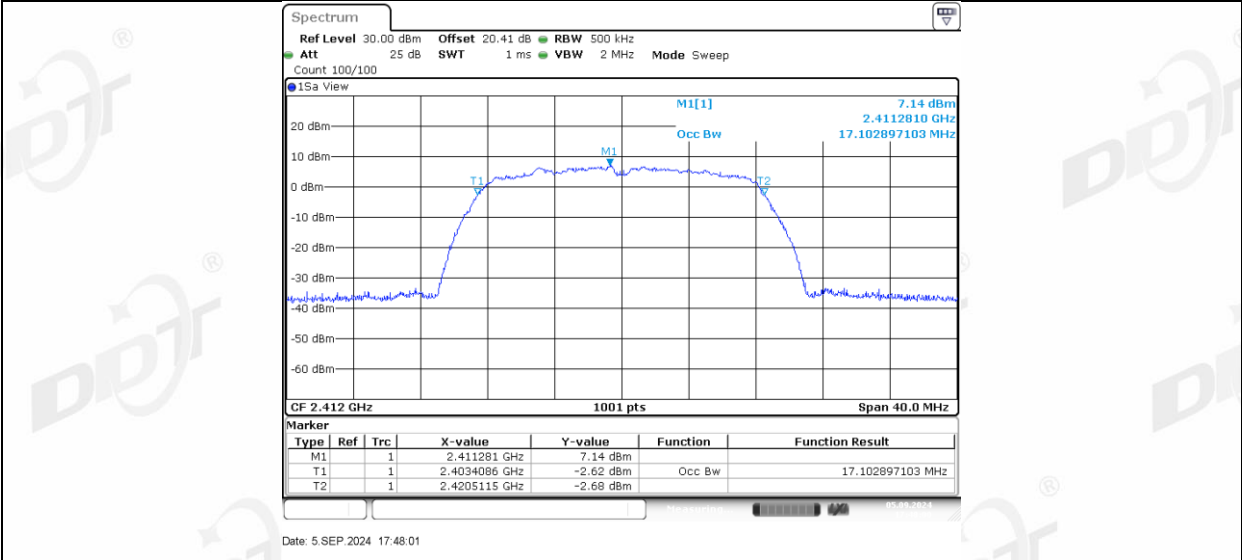


11G\_Ant1\_2412

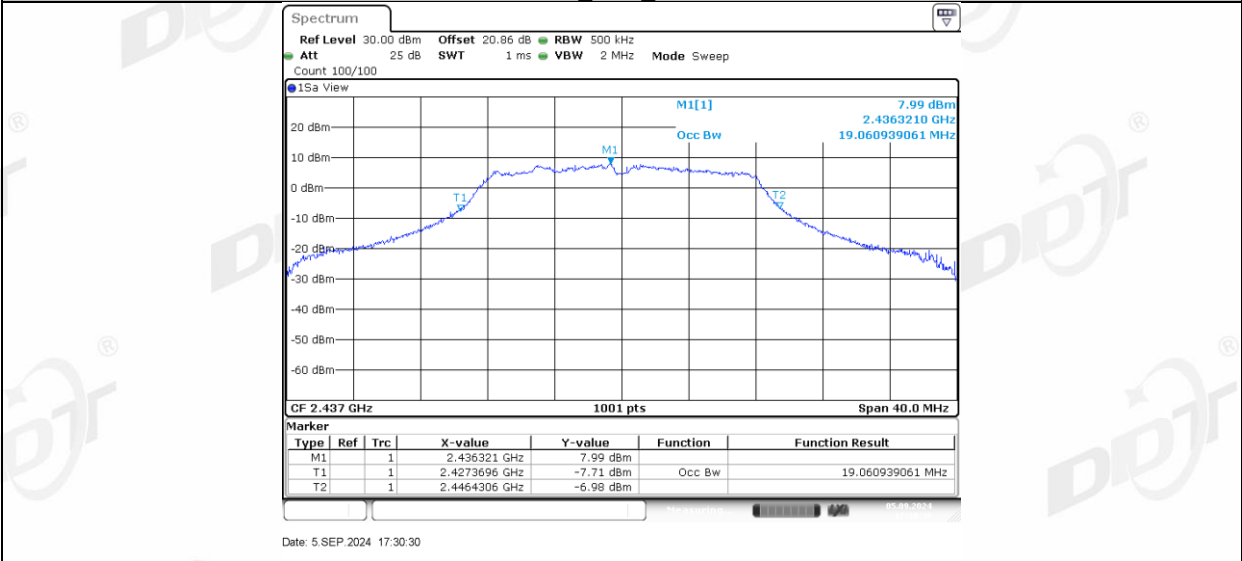




11G Ant2\_2412

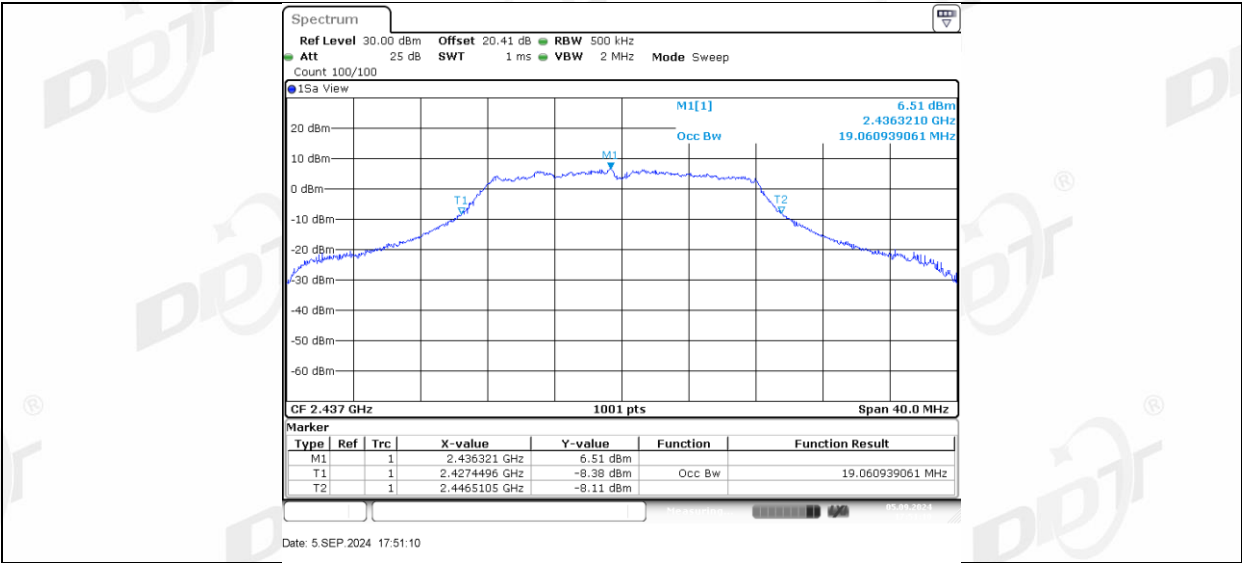


11G Ant1\_2437

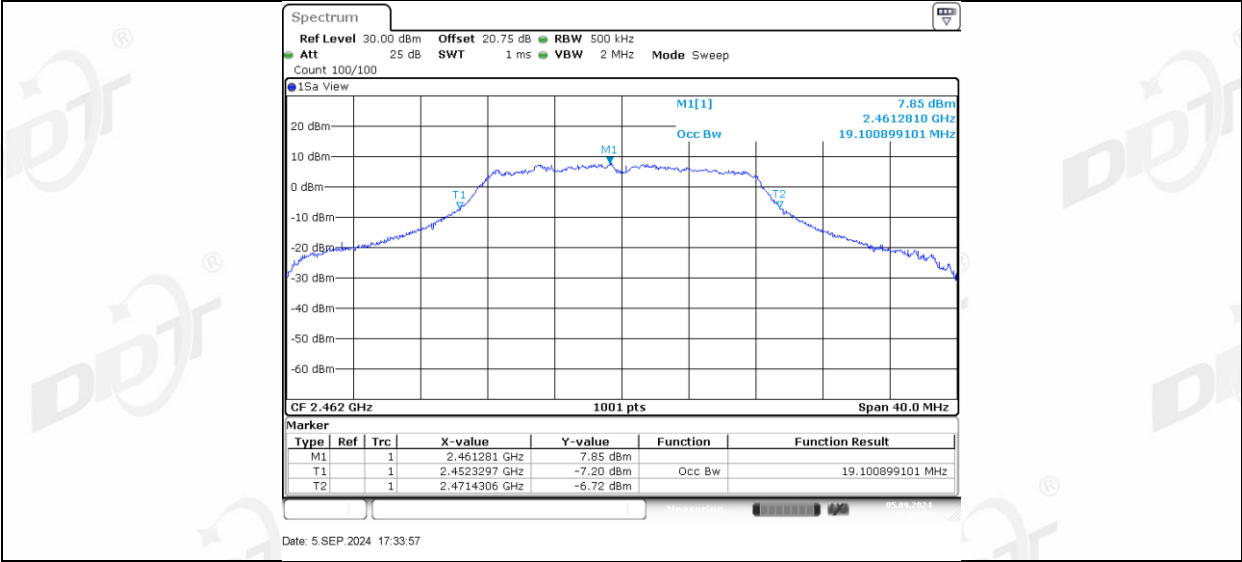


11G Ant2\_2437

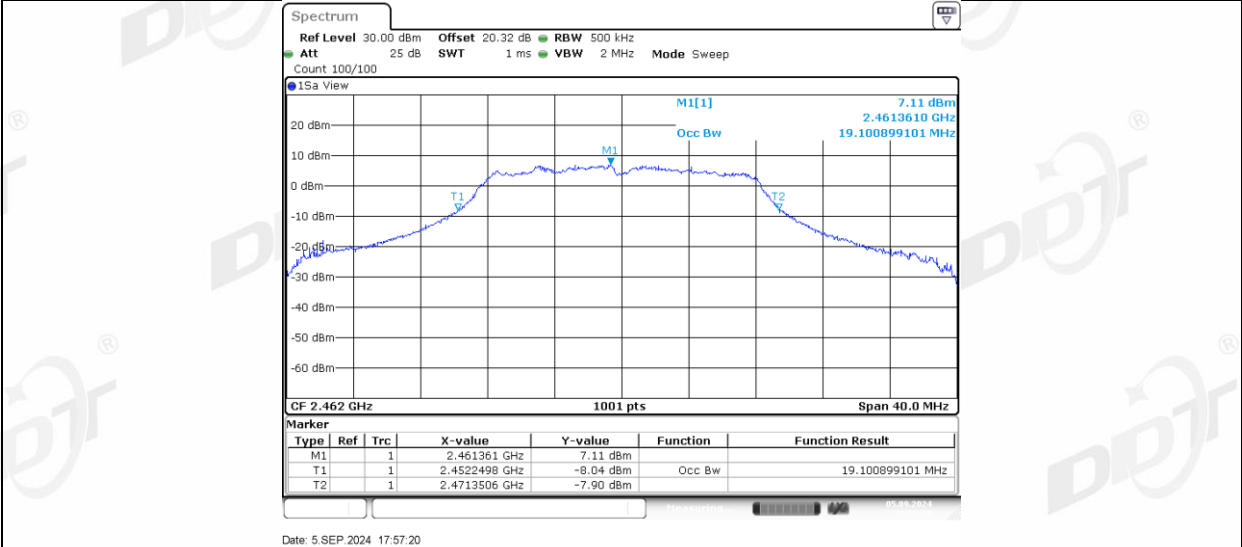




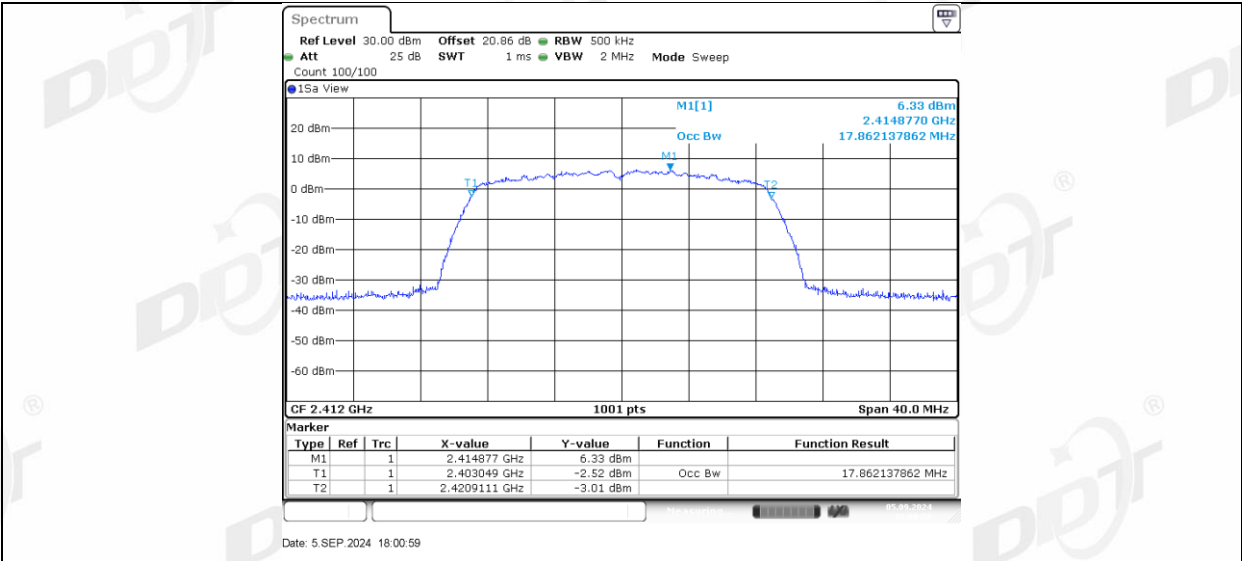
11G Ant1\_2462



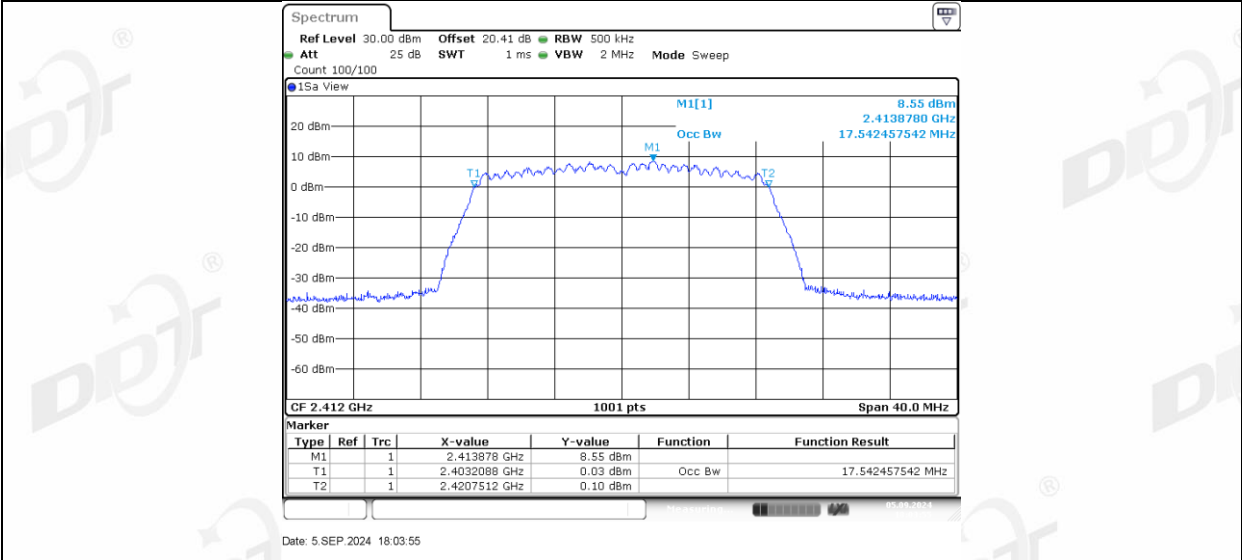
11G Ant2\_2462



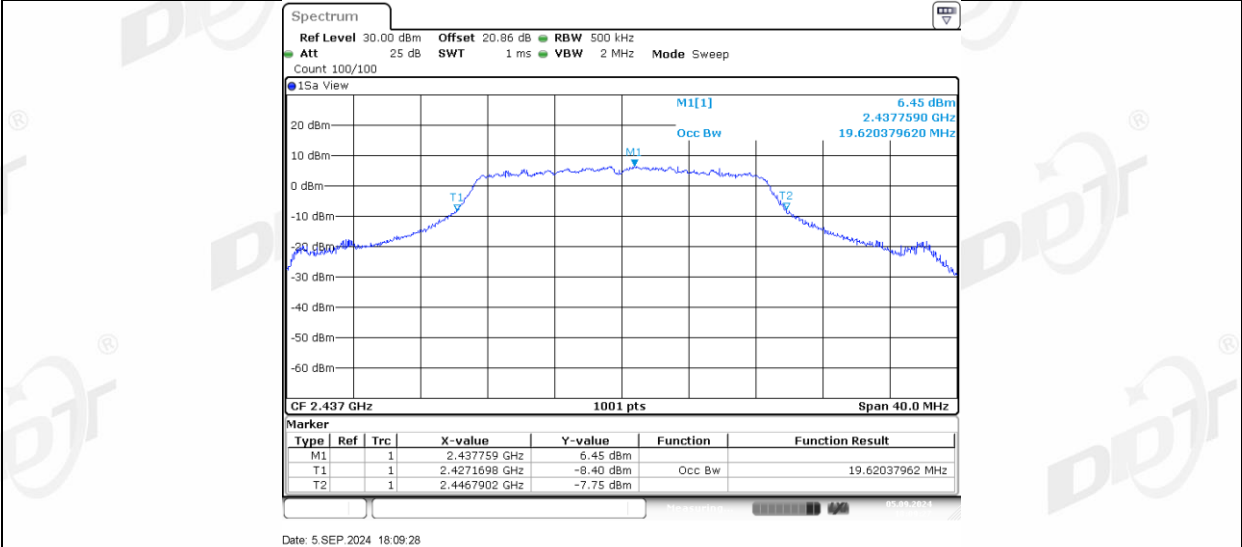
11N20MIMO\_Ant1\_2412



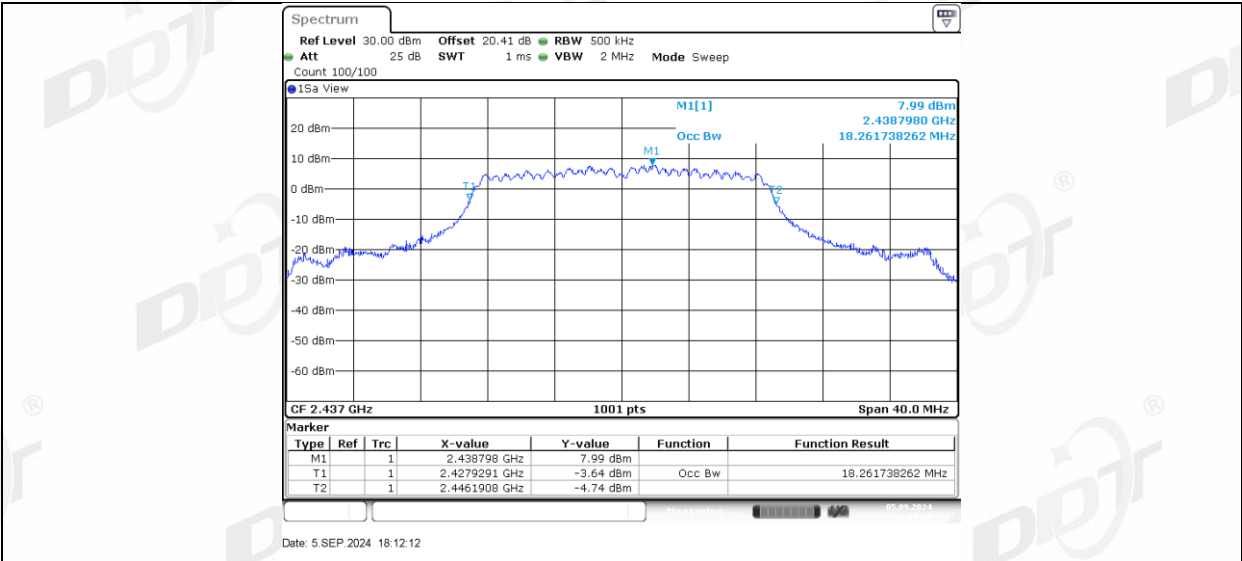
11N20MIMO\_Ant2\_2412



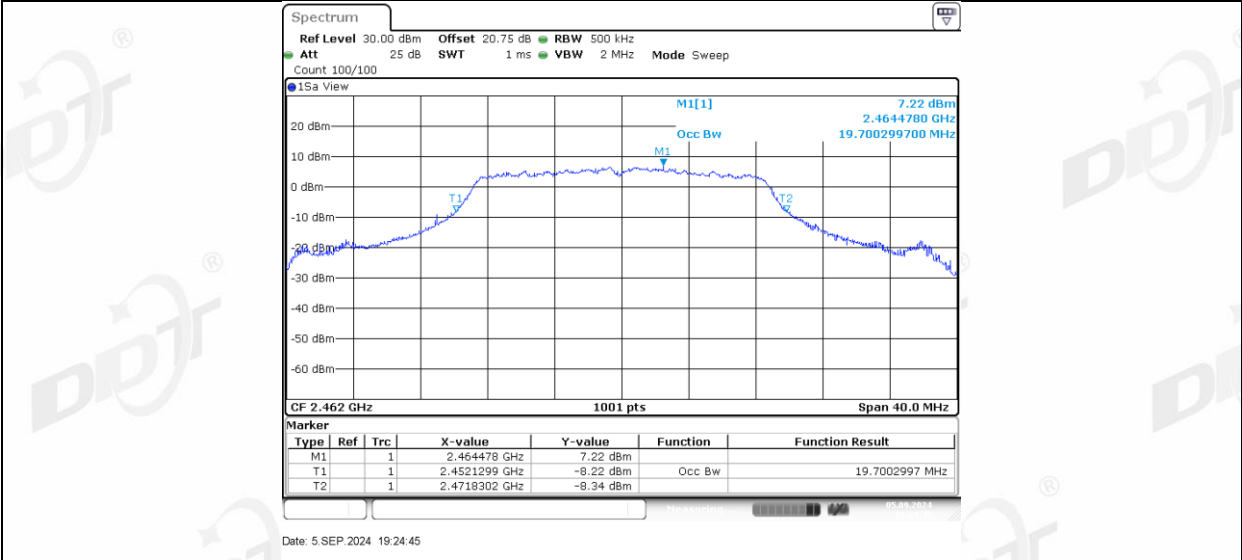
11N20MIMO\_Ant1\_2437



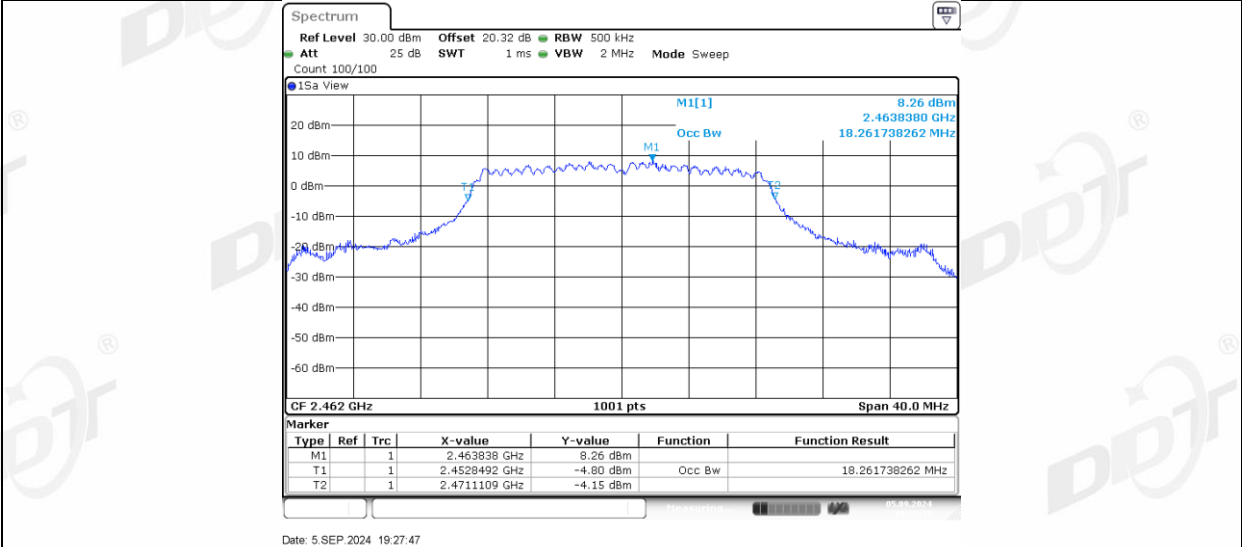
11N20MIMO\_Ant2\_2437



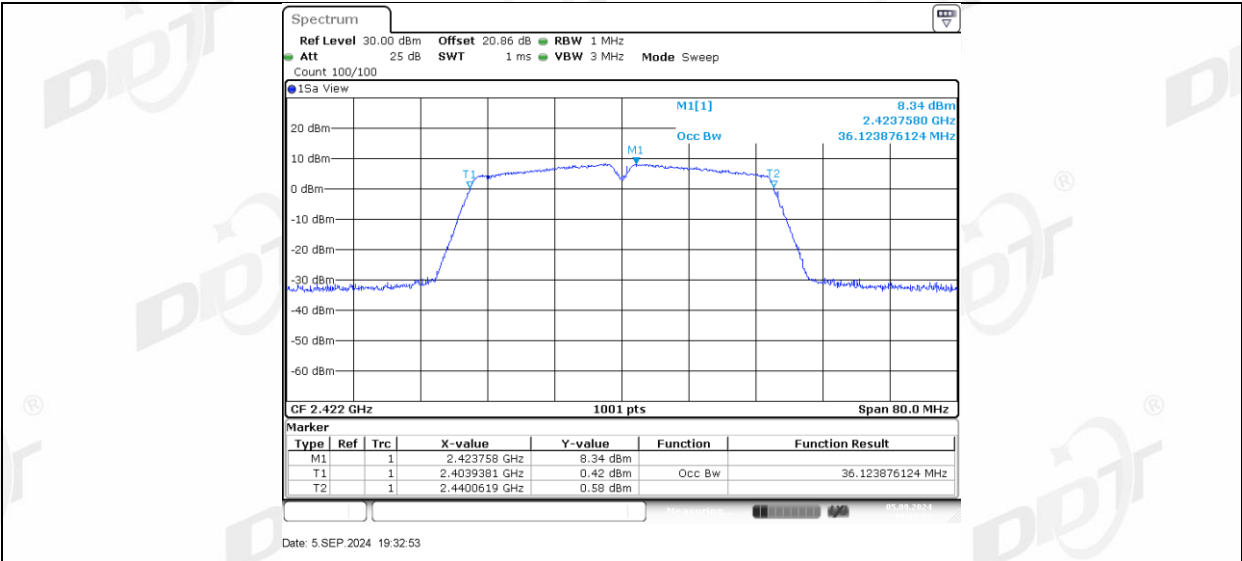
11N20MIMO\_Ant1\_2462



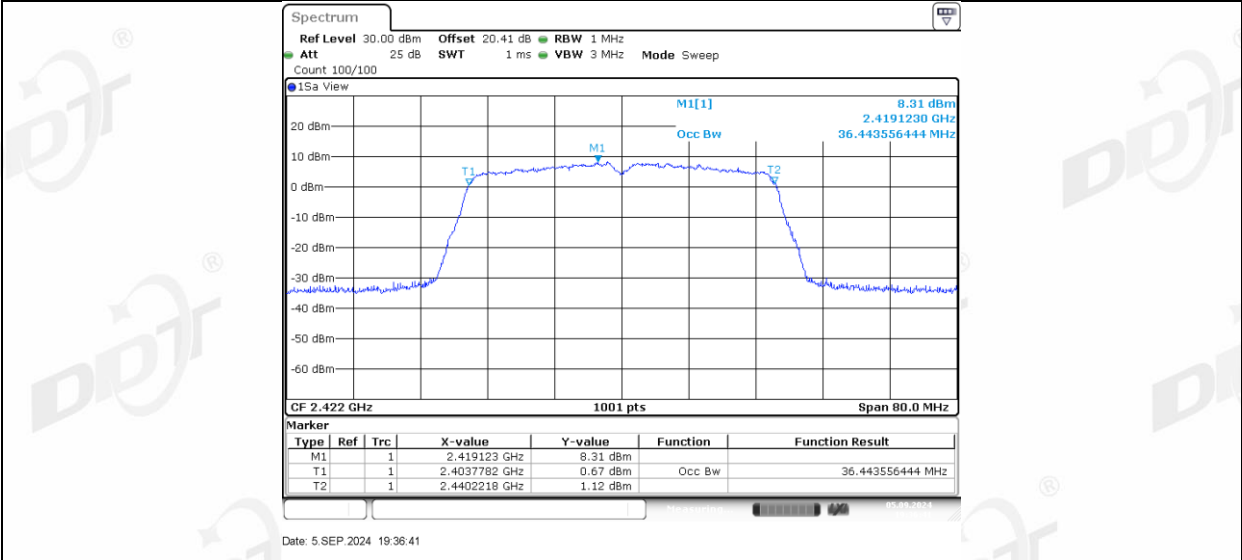
11N20MIMO\_Ant2\_2462



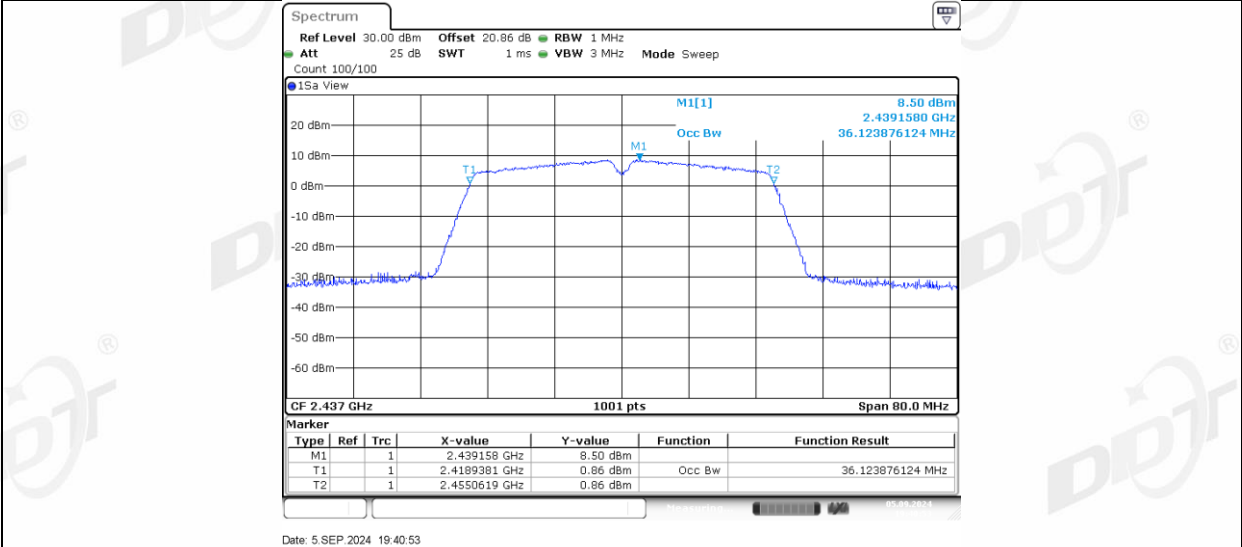
11N40MIMO\_Ant1\_2422



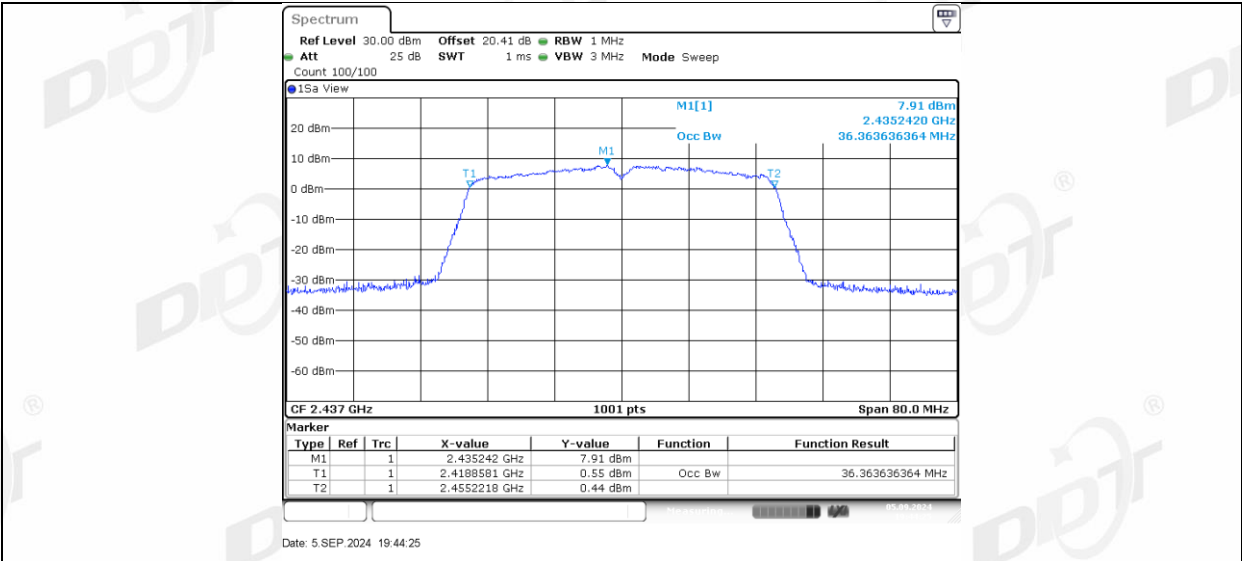
11N40MIMO\_Ant2\_2422



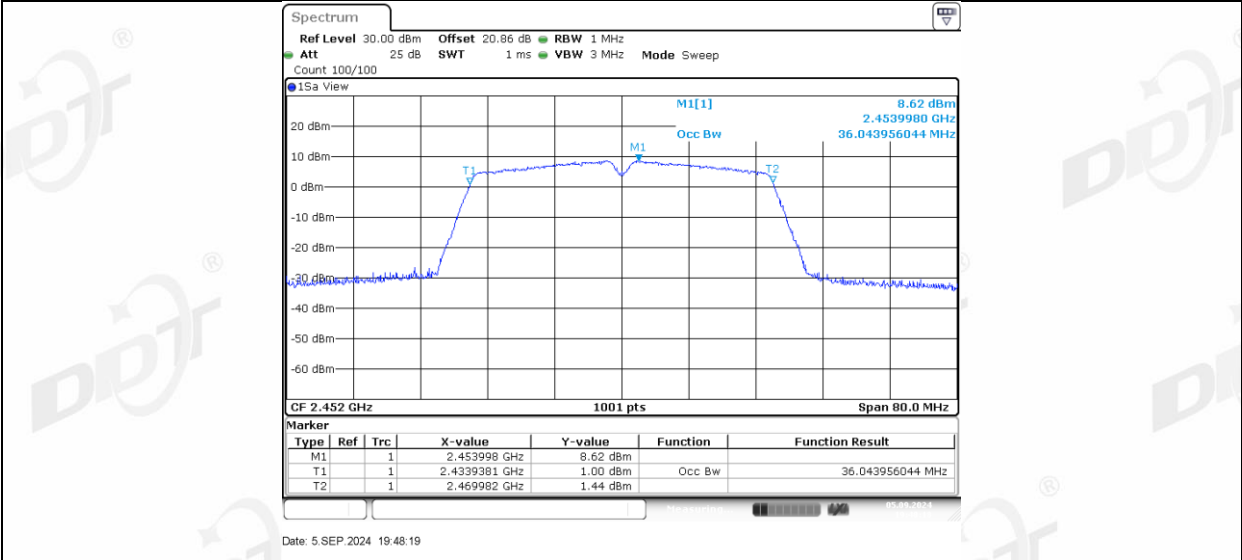
11N40MIMO\_Ant1\_2437



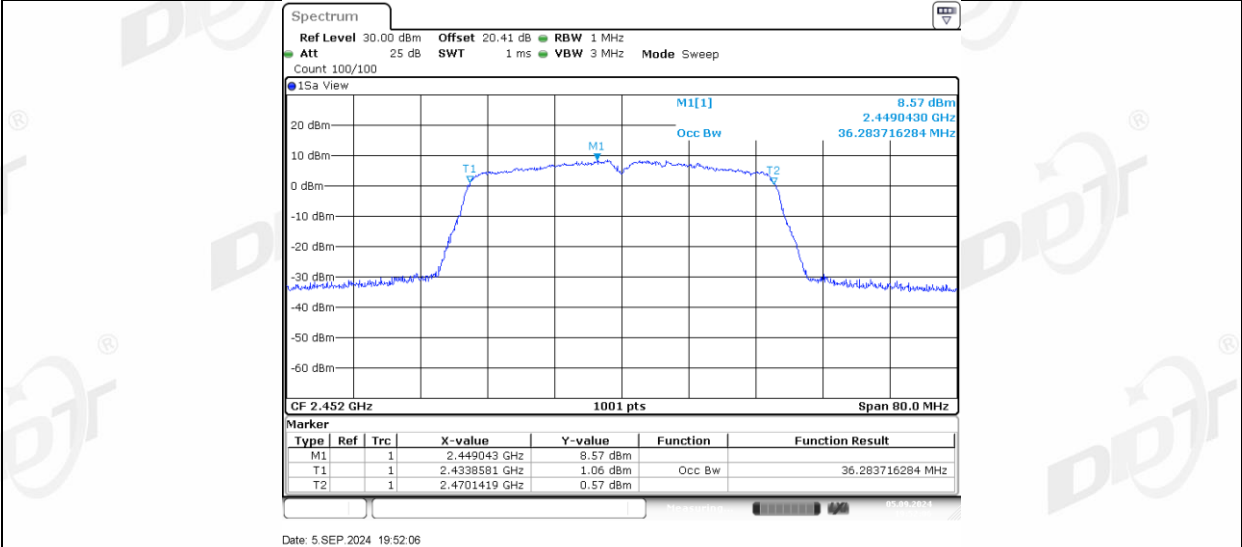
11N40MIMO\_Ant2\_2437



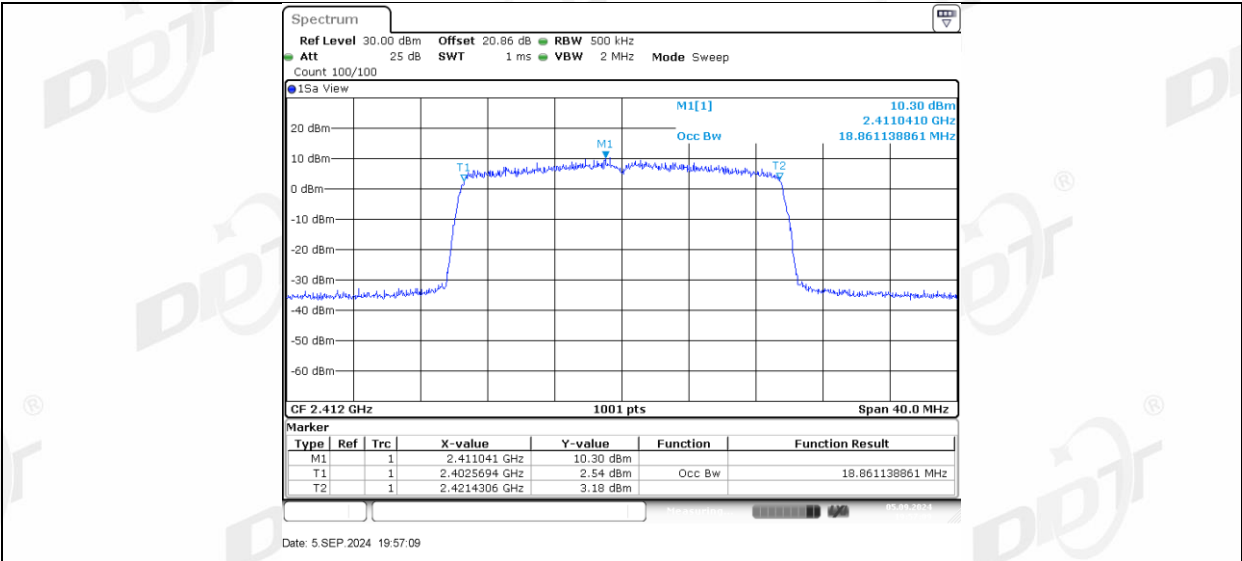
11N40MIMO\_Ant1\_2452



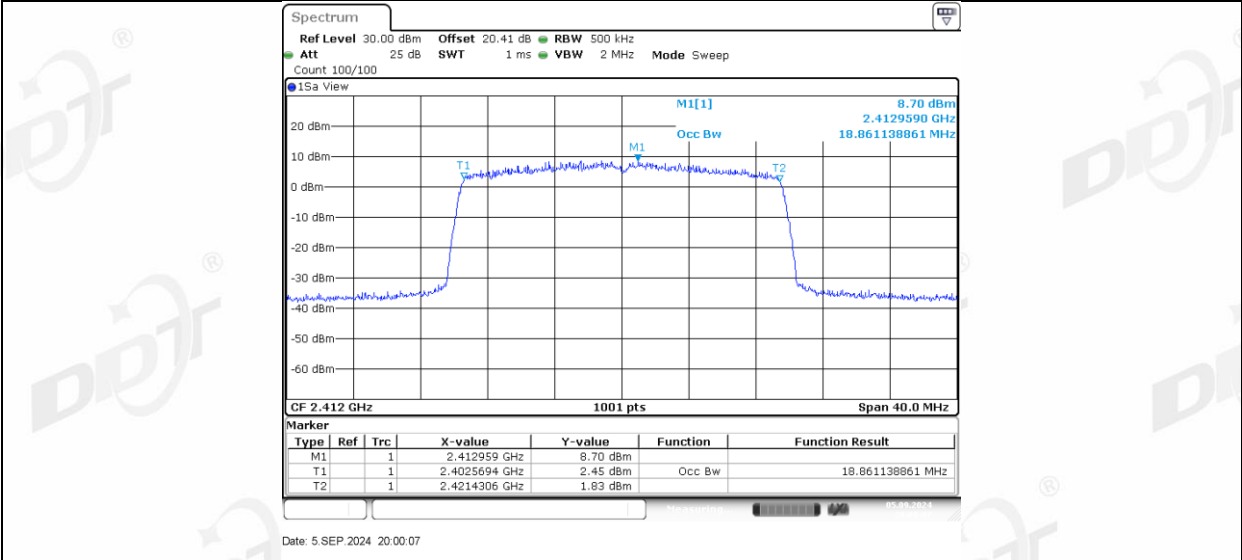
11N40MIMO\_Ant2\_2452



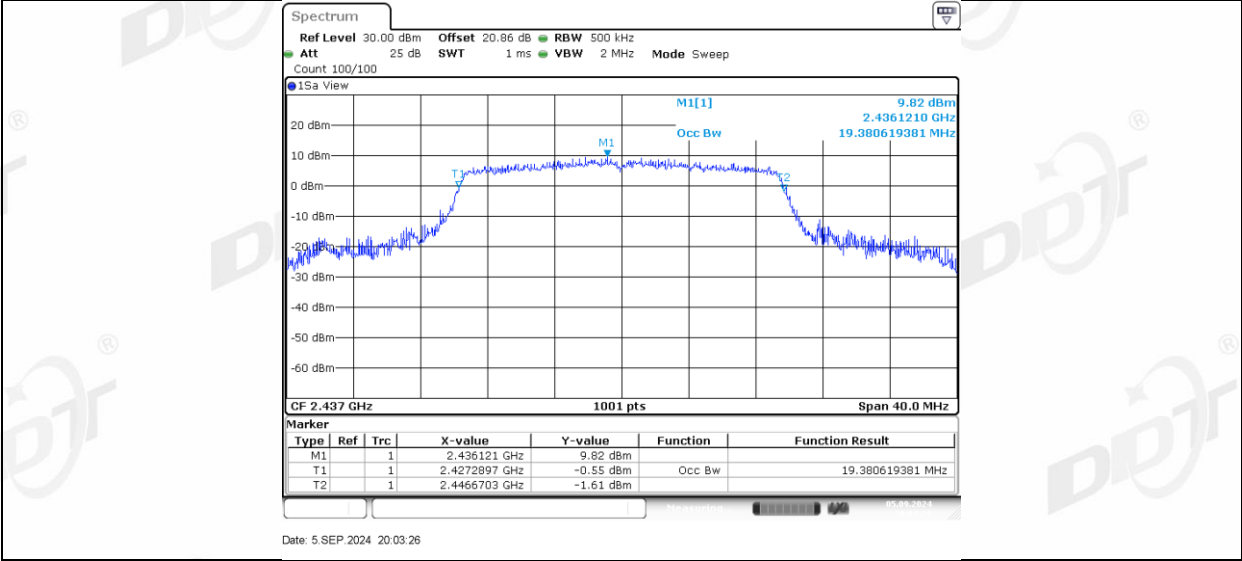
11AX20MIMO\_Ant1\_2412



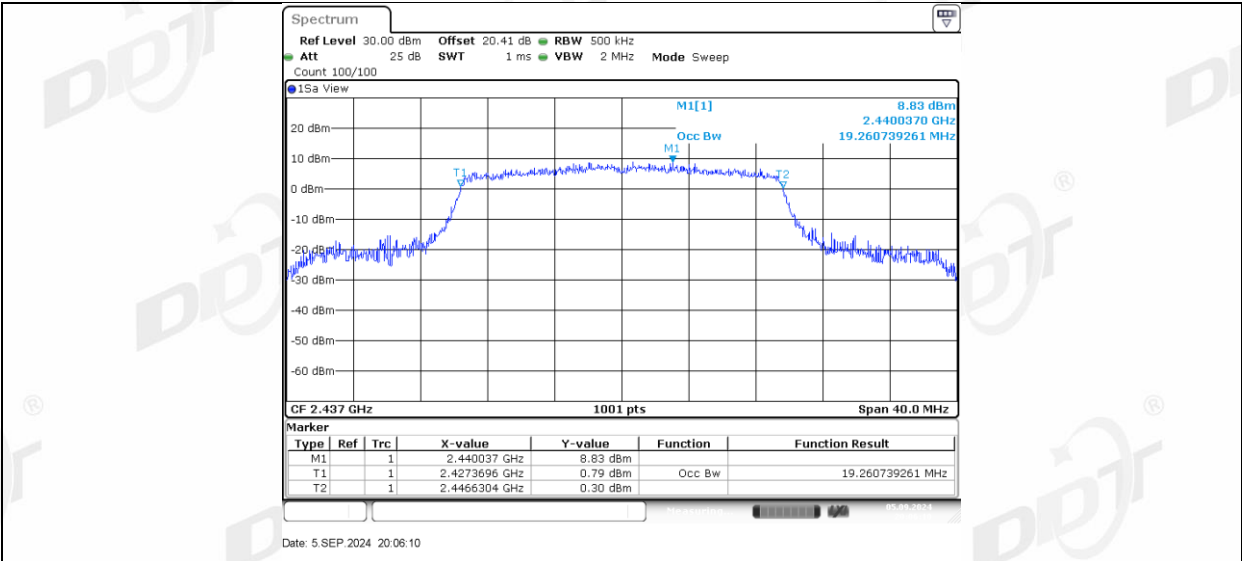
11AX20MIMO\_Ant2\_2412



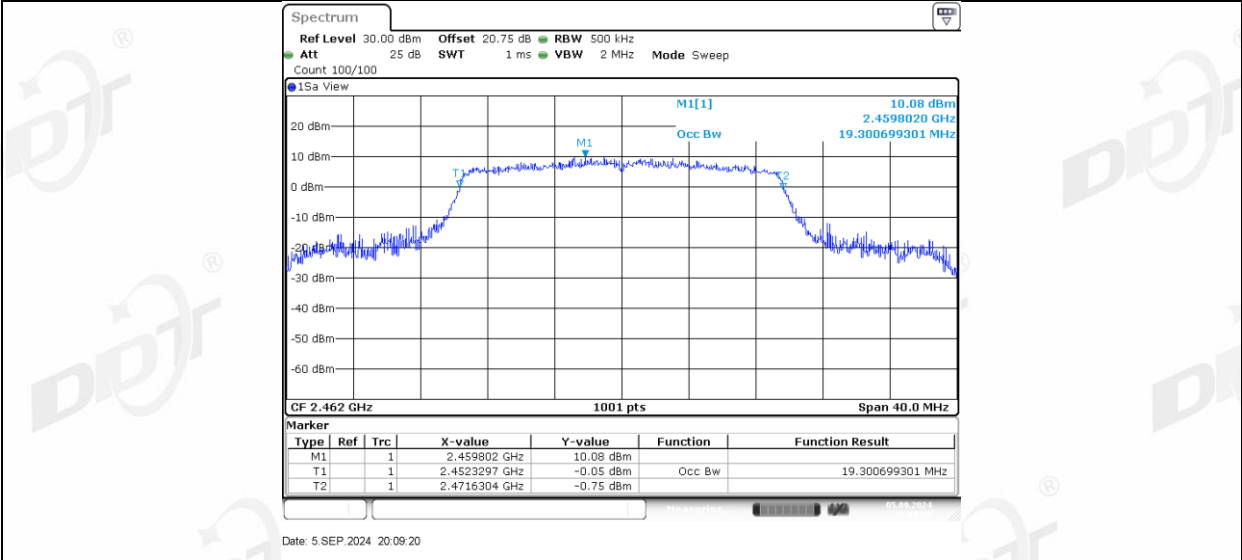
11AX20MIMO\_Ant1\_2437



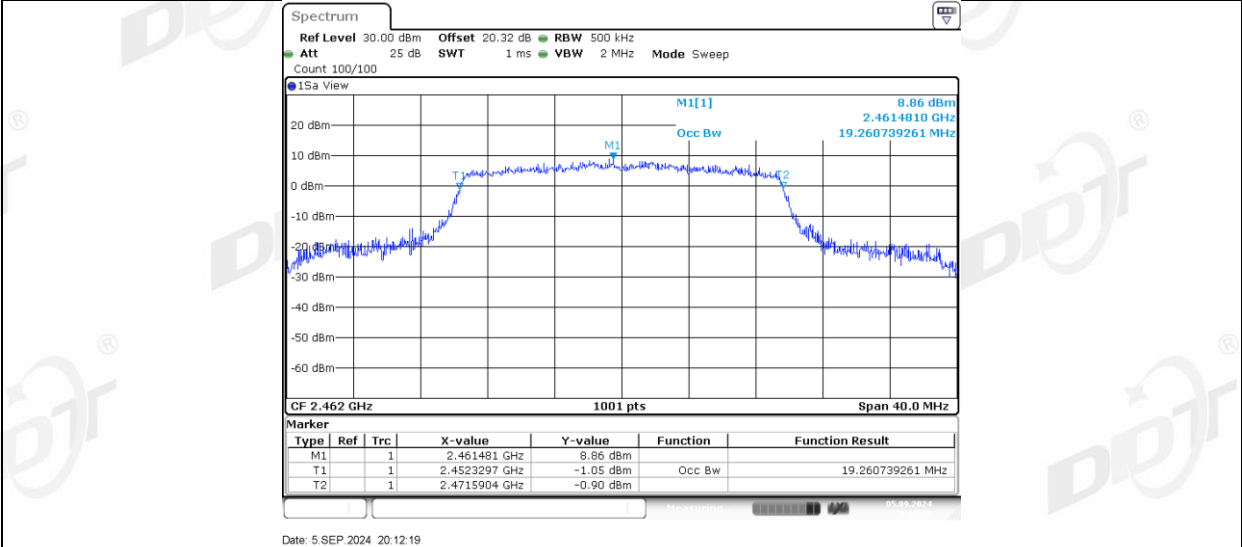
11AX20MIMO\_Ant2\_2437



11AX20MIMO\_Ant1\_2462

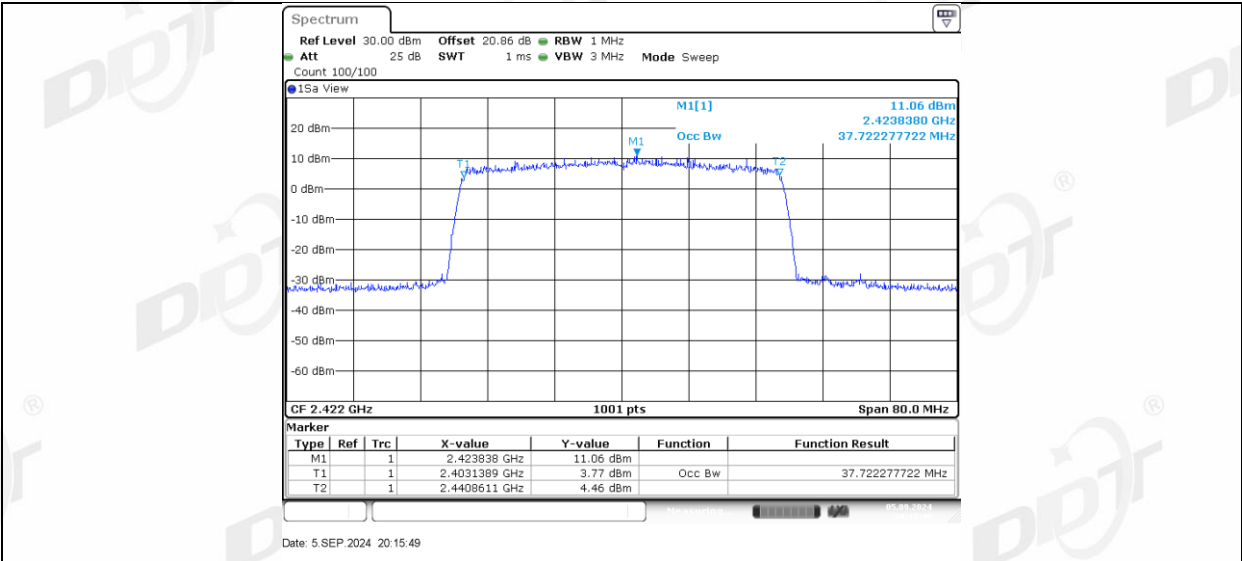


11AX20MIMO\_Ant2\_2462

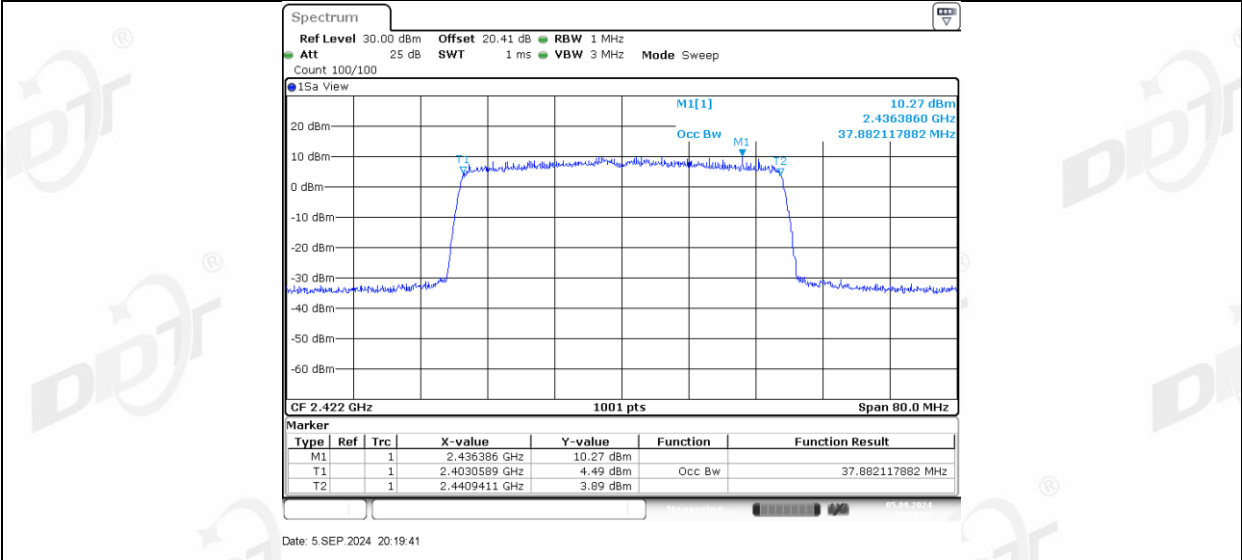


11AX40MIMO\_Ant1\_2422

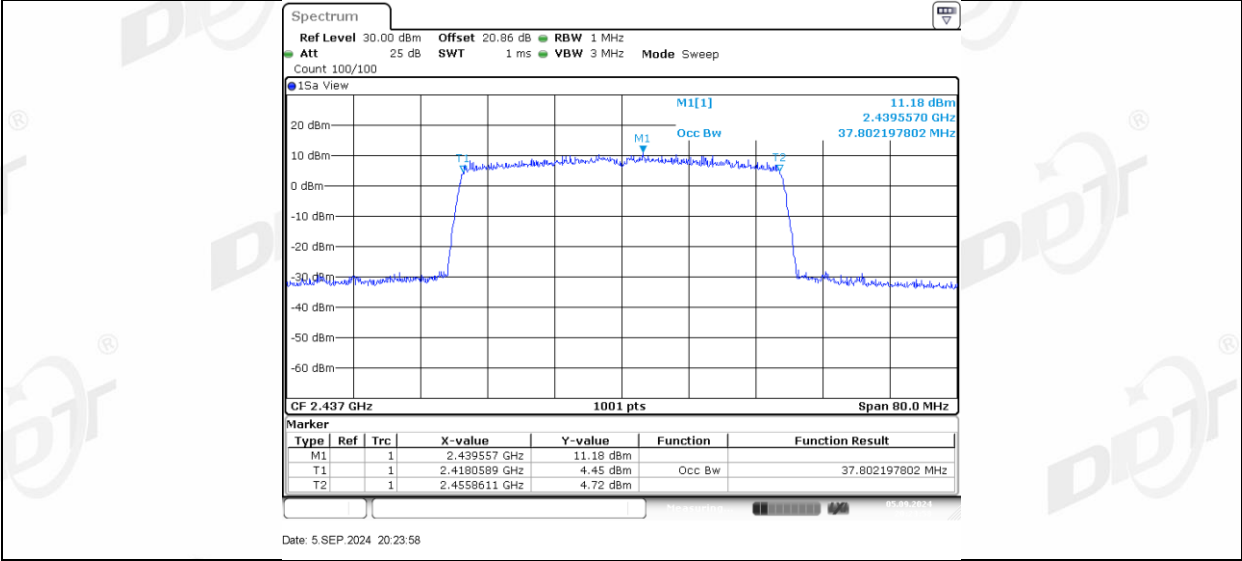




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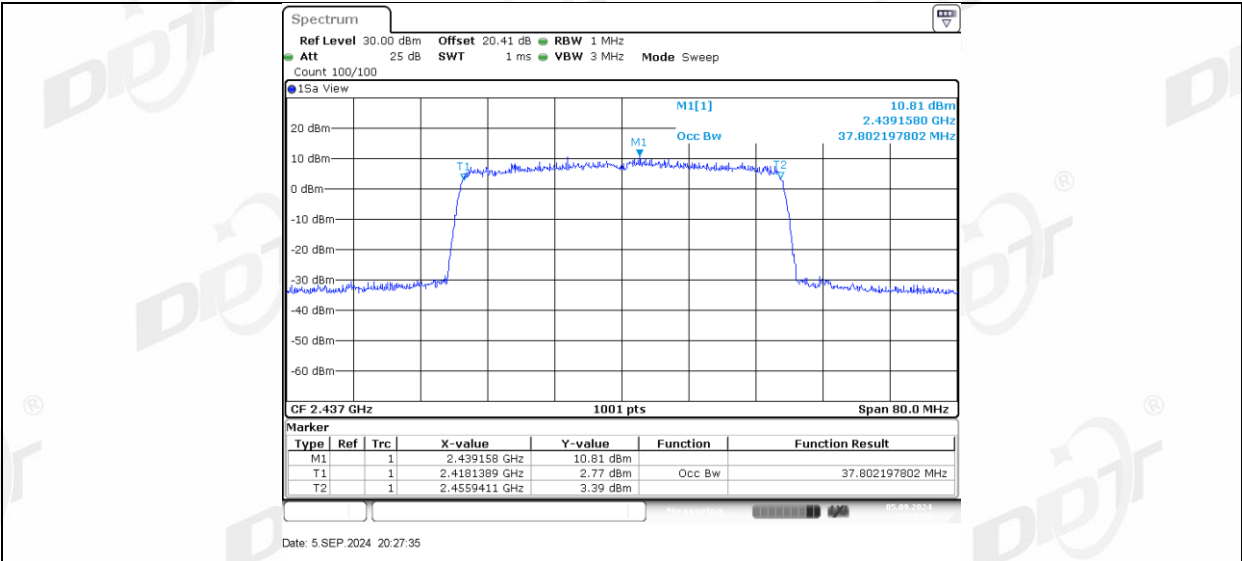


11AX40MIMO\_Ant1\_2437

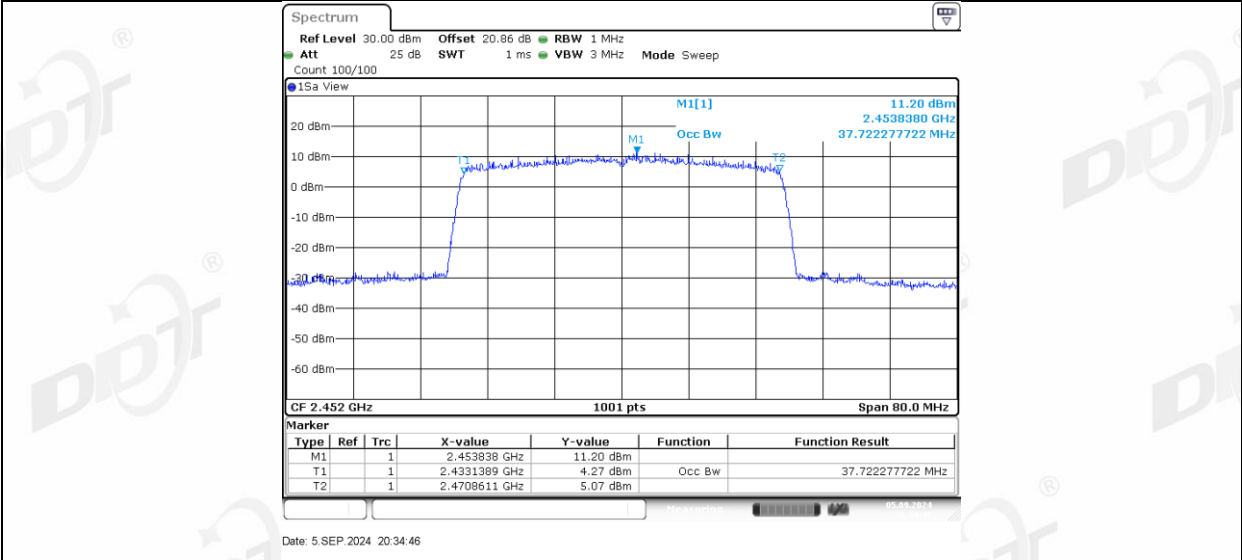


11AX40MIMO\_Ant2\_2437

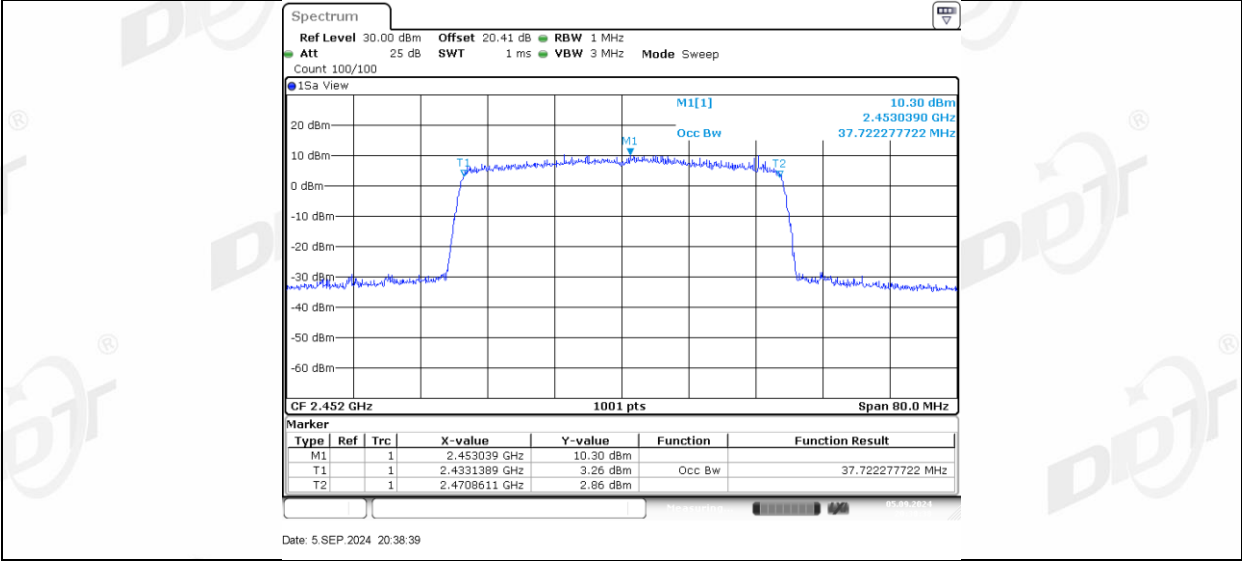




11AX40MIMO\_Ant1\_2452

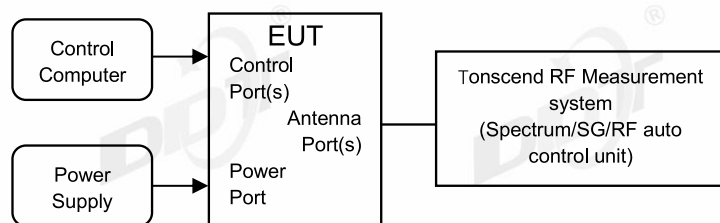


11AX40MIMO\_Ant2\_2452



## 6. Conducted 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 6 dBi 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.

### 6.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.9.2.3.
- (2) Connect EUT's antenna output to RF power meter 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, If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal.
- (4) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- (5) Adjust the measurement in dBm by adding  $[10 \log (1 / D)]$ , where D is the duty cycle.
- (6) Record the RF average power of each antenna port.

## 6.4. Test result average

|                    |                         |                |                          |
|--------------------|-------------------------|----------------|--------------------------|
| Test Engineer:     | Zhongyao                | Test Site:     | RF Measurement System 3# |
| Ambient Condition: | 24.6-27.5℃,42.9-48.7%RH | Test Date:     | 2024.09.05-2024.09.11    |
| Test Power Supply: | AC 120V/60Hz            | Sample Number: | S24081429-001            |

| Test Mode   | Ant.  | Frequency [MHz] | Average power [dBm] | Duty Cycle [%] | DC Factor [dB] | Result [dBm] | Limit [dBm] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|-------------|-------|-----------------|---------------------|----------------|----------------|--------------|-------------|------------|------------------|---------|
| 11B         | Ant1  | 2412            | 15.39               | 99.64          | 0.02           | 15.41        | ≤30.00      | 17.20      | ≤36.00           | PASS    |
|             | Ant2  | 2412            | 14.62               | 99.64          | 0.02           | 14.64        | ≤30.00      | 16.40      | ≤36.00           | PASS    |
|             | Ant1  | 2437            | 15.30               | 99.64          | 0.02           | 15.32        | ≤30.00      | 17.11      | ≤36.00           | PASS    |
|             | Ant2  | 2437            | 14.61               | 99.64          | 0.02           | 14.63        | ≤30.00      | 16.39      | ≤36.00           | PASS    |
|             | Ant1  | 2462            | 15.21               | 99.64          | 0.02           | 15.23        | ≤30.00      | 17.02      | ≤36.00           | PASS    |
|             | Ant2  | 2462            | 14.51               | 99.64          | 0.02           | 14.53        | ≤30.00      | 16.29      | ≤36.00           | PASS    |
| 11G         | Ant1  | 2412            | 12.50               | 97.90          | 0.09           | 12.59        | ≤30.00      | 14.38      | ≤36.00           | PASS    |
|             | Ant2  | 2412            | 11.75               | 97.20          | 0.12           | 11.87        | ≤30.00      | 13.63      | ≤36.00           | PASS    |
|             | Ant1  | 2437            | 12.29               | 97.20          | 0.12           | 12.41        | ≤30.00      | 14.20      | ≤36.00           | PASS    |
|             | Ant2  | 2437            | 11.48               | 97.20          | 0.12           | 11.60        | ≤30.00      | 13.36      | ≤36.00           | PASS    |
|             | Ant1  | 2462            | 12.19               | 97.90          | 0.09           | 12.28        | ≤30.00      | 14.07      | ≤36.00           | PASS    |
|             | Ant2  | 2462            | 11.78               | 97.20          | 0.12           | 11.90        | ≤30.00      | 13.66      | ≤36.00           | PASS    |
| 11N20MI MO  | Ant1  | 2412            | 10.27               | 97.74          | 0.10           | 10.37        | ≤30.00      | 12.16      | ≤36.00           | PASS    |
|             | Ant2  | 2412            | 9.48                | 97.01          | 0.13           | 9.61         | ≤30.00      | 11.37      | ≤36.00           | PASS    |
|             | total | 2412            | ---                 | ---            | ---            | 13.02        | ≤30.00      | 14.79      | ≤36.00           | PASS    |
|             | Ant1  | 2437            | 10.31               | 97.74          | 0.10           | 10.41        | ≤30.00      | 12.20      | ≤36.00           | PASS    |
|             | Ant2  | 2437            | 9.59                | 97.74          | 0.10           | 9.69         | ≤30.00      | 11.45      | ≤36.00           | PASS    |
|             | total | 2437            | ---                 | ---            | ---            | 13.08        | ≤30.00      | 14.85      | ≤36.00           | PASS    |
|             | Ant1  | 2462            | 10.20               | 97.74          | 0.10           | 10.30        | ≤30.00      | 12.09      | ≤36.00           | PASS    |
|             | Ant2  | 2462            | 9.64                | 97.01          | 0.13           | 9.77         | ≤30.00      | 11.53      | ≤36.00           | PASS    |
|             | total | 2462            | ---                 | ---            | ---            | 13.05        | ≤30.00      | 14.83      | ≤36.00           | PASS    |
|             | total | 2412            | ---                 | ---            | ---            | 13.02        | ≤30.00      | 14.79      | ≤36.00           | PASS    |
| 11N40MI MO  | Ant1  | 2422            | 9.89                | 94.12          | 0.26           | 10.15        | ≤30.00      | 11.94      | ≤36.00           | PASS    |
|             | Ant2  | 2422            | 9.09                | 94.12          | 0.26           | 9.35         | ≤30.00      | 11.11      | ≤36.00           | PASS    |
|             | total | 2422            | ---                 | ---            | ---            | 12.78        | ≤30.00      | 14.56      | ≤36.00           | PASS    |
|             | Ant1  | 2437            | 9.89                | 94.12          | 0.26           | 10.15        | ≤30.00      | 11.94      | ≤36.00           | PASS    |
|             | Ant2  | 2437            | 9.08                | 95.59          | 0.20           | 9.28         | ≤30.00      | 11.04      | ≤36.00           | PASS    |
|             | total | 2437            | ---                 | ---            | ---            | 12.75        | ≤30.00      | 14.52      | ≤36.00           | PASS    |
|             | Ant1  | 2452            | 9.86                | 95.59          | 0.20           | 10.06        | ≤30.00      | 11.85      | ≤36.00           | PASS    |
|             | Ant2  | 2452            | 9.12                | 95.59          | 0.20           | 9.32         | ≤30.00      | 11.08      | ≤36.00           | PASS    |
|             | total | 2452            | ---                 | ---            | ---            | 12.72        | ≤30.00      | 14.49      | ≤36.00           | PASS    |
|             | total | 2422            | ---                 | ---            | ---            | 12.78        | ≤30.00      | 14.56      | ≤36.00           | PASS    |
| 11AX20MI MO | Ant1  | 2412            | 10.50               | 96.19          | 0.17           | 10.67        | ≤30.00      | 12.46      | ≤36.00           | PASS    |
|             | Ant2  | 2412            | 9.75                | 96.19          | 0.17           | 9.92         | ≤30.00      | 11.68      | ≤36.00           | PASS    |
|             | total | 2412            | ---                 | ---            | ---            | 13.32        | ≤30.00      | 15.10      | ≤36.00           | PASS    |
|             | Ant1  | 2437            | 10.55               | 97.14          | 0.13           | 10.68        | ≤30.00      | 12.47      | ≤36.00           | PASS    |
|             | Ant2  | 2437            | 9.82                | 96.23          | 0.17           | 9.99         | ≤30.00      | 11.75      | ≤36.00           | PASS    |
|             | total | 2437            | ---                 | ---            | ---            | 13.36        | ≤30.00      | 15.14      | ≤36.00           | PASS    |
|             | Ant1  | 2462            | 10.45               | 96.23          | 0.17           | 10.62        | ≤30.00      | 12.41      | ≤36.00           | PASS    |
|             | Ant2  | 2462            | 9.88                | 97.14          | 0.13           | 10.01        | ≤30.00      | 11.77      | ≤36.00           | PASS    |
|             | total | 2462            | ---                 | ---            | ---            | 13.34        | ≤30.00      | 15.11      | ≤36.00           | PASS    |
|             | total | 2412            | ---                 | ---            | ---            | 13.32        | ≤30.00      | 15.10      | ≤36.00           | PASS    |
| 11AX40MI MO | Ant1  | 2422            | 10.31               | 94.74          | 0.23           | 10.54        | ≤30.00      | 12.33      | ≤36.00           | PASS    |
|             | Ant2  | 2422            | 9.53                | 92.98          | 0.32           | 9.85         | ≤30.00      | 11.61      | ≤36.00           | PASS    |
|             | total | 2422            | ---                 | ---            | ---            | 13.22        | ≤30.00      | 15.00      | ≤36.00           | PASS    |
|             | Ant1  | 2437            | 10.31               | 94.74          | 0.23           | 10.54        | ≤30.00      | 12.33      | ≤36.00           | PASS    |
|             | Ant2  | 2437            | 9.54                | 92.98          | 0.32           | 9.86         | ≤30.00      | 11.62      | ≤36.00           | PASS    |
|             | total | 2437            | ---                 | ---            | ---            | 13.22        | ≤30.00      | 15.00      | ≤36.00           | PASS    |
|             | Ant1  | 2452            | 10.30               | 92.98          | 0.32           | 10.62        | ≤30.00      | 12.41      | ≤36.00           | PASS    |
|             | Ant2  | 2452            | 9.52                | 92.98          | 0.32           | 9.84         | ≤30.00      | 11.60      | ≤36.00           | PASS    |
|             | total | 2452            | ---                 | ---            | ---            | 13.26        | ≤30.00      | 15.03      | ≤36.00           | PASS    |
|             | total | 2422            | ---                 | ---            | ---            | 13.22        | ≤30.00      | 15.00      | ≤36.00           | PASS    |

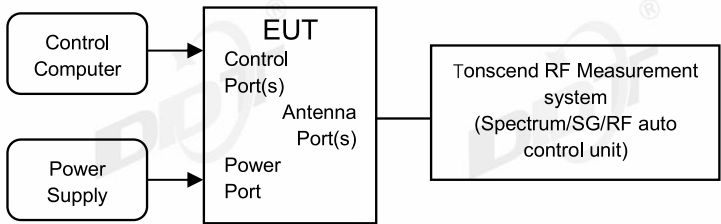
Note: EIRP (dBm)=Conducted Output Power (dBm)+ Antenna Gain (dBi)

| Test Mode   | Antenna | Frequency [MHz] | Ru Size | Ru Index | Peak Power [dBm] | Conducted Limit [dBm] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|-------------|---------|-----------------|---------|----------|------------------|-----------------------|------------|------------------|---------|
| 11AX20MI MO | Ant1    | 2412            | 26Tone  | RU0      | 13.67            | ≤30.00                | 15.46      | ≤36.00           | PASS    |
|             |         |                 |         | RU4      | 13.52            | ≤30.00                | 15.31      | ≤36.00           | PASS    |
|             |         |                 |         | RU8      | 12.95            | ≤30.00                | 14.74      | ≤36.00           | PASS    |
|             |         |                 | 52Tone  | RU37     | 13.94            | ≤30.00                | 15.73      | ≤36.00           | PASS    |
|             |         |                 |         | RU39     | 13.33            | ≤30.00                | 15.12      | ≤36.00           | PASS    |
|             |         |                 |         | RU40     | 13.20            | ≤30.00                | 14.99      | ≤36.00           | PASS    |
|             |         |                 | 106Tone | RU53     | 14.13            | ≤30.00                | 15.92      | ≤36.00           | PASS    |
|             |         |                 |         | RU54     | 13.56            | ≤30.00                | 15.35      | ≤36.00           | PASS    |
|             |         |                 |         | RU0      | 13.72            | ≤30.00                | 15.48      | ≤36.00           | PASS    |
|             | Ant2    | 2412            | 26Tone  | RU4      | 13.09            | ≤30.00                | 14.85      | ≤36.00           | PASS    |
|             |         |                 |         | RU8      | 11.96            | ≤30.00                | 13.72      | ≤36.00           | PASS    |
|             |         |                 |         | RU37     | 14.01            | ≤30.00                | 15.77      | ≤36.00           | PASS    |
|             |         |                 | 52Tone  | RU39     | 12.33            | ≤30.00                | 14.09      | ≤36.00           | PASS    |
|             |         |                 |         | RU40     | 12.50            | ≤30.00                | 14.26      | ≤36.00           | PASS    |
|             |         |                 |         | RU53     | 13.87            | ≤30.00                | 15.63      | ≤36.00           | PASS    |
|             |         |                 | 106Tone | RU54     | 13.00            | ≤30.00                | 14.76      | ≤36.00           | PASS    |
|             |         |                 |         | RU0      | 16.71            | ≤30.00                | 18.48      | ≤36.00           | PASS    |
|             | total   | 2412            | 26Tone  | RU4      | 16.32            | ≤30.00                | 18.10      | ≤36.00           | PASS    |
|             |         |                 |         | RU8      | 15.49            | ≤30.00                | 17.27      | ≤36.00           | PASS    |
|             |         |                 |         | RU37     | 16.99            | ≤30.00                | 18.76      | ≤36.00           | PASS    |
|             |         |                 | 52Tone  | RU39     | 15.87            | ≤30.00                | 17.65      | ≤36.00           | PASS    |
|             |         |                 |         | RU40     | 15.87            | ≤30.00                | 17.65      | ≤36.00           | PASS    |
|             |         |                 |         | RU53     | 17.01            | ≤30.00                | 18.79      | ≤36.00           | PASS    |
|             |         |                 | 106Tone | RU54     | 16.30            | ≤30.00                | 18.08      | ≤36.00           | PASS    |
|             |         |                 |         | RU0      | 13.22            | ≤30.00                | 15.01      | ≤36.00           | PASS    |
|             | Ant1    | 2437            | 26Tone  | RU4      | 13.38            | ≤30.00                | 15.17      | ≤36.00           | PASS    |
|             |         |                 |         | RU8      | 13.35            | ≤30.00                | 15.14      | ≤36.00           | PASS    |
|             |         |                 |         | RU37     | 13.47            | ≤30.00                | 15.26      | ≤36.00           | PASS    |
|             |         |                 | 52Tone  | RU39     | 13.54            | ≤30.00                | 15.33      | ≤36.00           | PASS    |
|             |         |                 |         | RU40     | 13.43            | ≤30.00                | 15.22      | ≤36.00           | PASS    |
|             |         |                 |         | RU53     | 13.47            | ≤30.00                | 15.26      | ≤36.00           | PASS    |
|             |         |                 | 106Tone | RU54     | 13.74            | ≤30.00                | 15.53      | ≤36.00           | PASS    |
|             |         |                 |         | RU0      | 12.60            | ≤30.00                | 14.36      | ≤36.00           | PASS    |
|             | Ant2    | 2437            | 26Tone  | RU4      | 12.89            | ≤30.00                | 14.65      | ≤36.00           | PASS    |
|             |         |                 |         | RU8      | 12.98            | ≤30.00                | 14.74      | ≤36.00           | PASS    |
|             |         |                 |         | RU37     | 12.83            | ≤30.00                | 14.59      | ≤36.00           | PASS    |
|             |         |                 | 52Tone  | RU39     | 13.16            | ≤30.00                | 14.92      | ≤36.00           | PASS    |
|             |         |                 |         | RU40     | 12.98            | ≤30.00                | 14.74      | ≤36.00           | PASS    |
|             |         |                 |         | RU53     | 13.15            | ≤30.00                | 14.91      | ≤36.00           | PASS    |
|             |         |                 | 106Tone | RU54     | 13.24            | ≤30.00                | 15.00      | ≤36.00           | PASS    |
|             |         |                 |         | RU0      | 15.93            | ≤30.00                | 17.71      | ≤36.00           | PASS    |
|             | total   | 2437            | 26Tone  | RU4      | 16.15            | ≤30.00                | 17.93      | ≤36.00           | PASS    |
|             |         |                 |         | RU8      | 16.18            | ≤30.00                | 17.95      | ≤36.00           | PASS    |
|             |         |                 |         | RU37     | 16.17            | ≤30.00                | 17.95      | ≤36.00           | PASS    |
|             |         |                 | 52Tone  | RU39     | 16.36            | ≤30.00                | 18.14      | ≤36.00           | PASS    |
|             |         |                 |         | RU40     | 16.22            | ≤30.00                | 18.00      | ≤36.00           | PASS    |
|             |         |                 |         | RU53     | 16.32            | ≤30.00                | 18.10      | ≤36.00           | PASS    |
|             |         |                 | 106Tone | RU54     | 16.51            | ≤30.00                | 18.28      | ≤36.00           | PASS    |
|             |         |                 |         | RU0      | 13.51            | ≤30.00                | 15.30      | ≤36.00           | PASS    |
|             | Ant1    | 2462            | 26Tone  | RU4      | 13.61            | ≤30.00                | 15.40      | ≤36.00           | PASS    |
|             |         |                 |         | RU8      | 13.40            | ≤30.00                | 15.19      | ≤36.00           | PASS    |
|             |         |                 |         | RU37     | 13.61            | ≤30.00                | 15.40      | ≤36.00           | PASS    |
|             |         |                 | 52Tone  | RU39     | 13.59            | ≤30.00                | 15.38      | ≤36.00           | PASS    |
|             |         |                 |         | RU40     | 13.75            | ≤30.00                | 15.54      | ≤36.00           | PASS    |
|             |         |                 |         | RU53     | 13.73            | ≤30.00                | 15.52      | ≤36.00           | PASS    |
|             |         |                 | 106Tone | RU54     | 13.60            | ≤30.00                | 15.39      | ≤36.00           | PASS    |
|             |         |                 |         | RU0      | 13.01            | ≤30.00                | 14.77      | ≤36.00           | PASS    |
|             | Ant2    | 2462            | 26Tone  | RU4      | 13.11            | ≤30.00                | 14.87      | ≤36.00           | PASS    |
|             |         |                 |         | RU8      | 12.88            | ≤30.00                | 14.64      | ≤36.00           | PASS    |
|             |         |                 |         | RU37     | 13.22            | ≤30.00                | 14.98      | ≤36.00           | PASS    |
|             |         |                 | 52Tone  | RU39     | 13.35            | ≤30.00                | 15.11      | ≤36.00           | PASS    |
|             |         |                 |         | RU40     | 13.11            | ≤30.00                | 14.87      | ≤36.00           | PASS    |
|             |         |                 |         | RU53     | 13.48            | ≤30.00                | 15.24      | ≤36.00           | PASS    |
|             |         |                 | 106Tone | RU54     | 13.45            | ≤30.00                | 15.21      | ≤36.00           | PASS    |
|             |         |                 |         | RU0      | 16.28            | ≤30.00                | 18.05      | ≤36.00           | PASS    |
|             | total   | 2462            | 26Tone  | RU4      | 16.38            | ≤30.00                | 18.15      | ≤36.00           | PASS    |
|             |         |                 |         | RU8      | 16.16            | ≤30.00                | 17.93      | ≤36.00           | PASS    |
|             |         |                 | 52Tone  | RU37     | 16.43            | ≤30.00                | 18.21      | ≤36.00           | PASS    |
|             |         |                 |         | RU39     | 16.48            | ≤30.00                | 18.26      | ≤36.00           | PASS    |

|                |       |         |         |      |       |        |       |        |      |
|----------------|-------|---------|---------|------|-------|--------|-------|--------|------|
| 11AX40MI<br>MO |       |         | 106Tone | RU40 | 16.45 | ≤30.00 | 18.23 | ≤36.00 | PASS |
|                |       |         |         | RU53 | 16.62 | ≤30.00 | 18.39 | ≤36.00 | PASS |
|                |       |         |         | RU54 | 16.54 | ≤30.00 | 18.31 | ≤36.00 | PASS |
|                | Ant1  | 2422    | 106Tone | RU53 | 13.76 | ≤30.00 | 15.55 | ≤36.00 | PASS |
|                |       |         |         | RU56 | 13.59 | ≤30.00 | 15.38 | ≤36.00 | PASS |
|                |       | 242Tone |         | RU61 | 13.88 | ≤30.00 | 15.67 | ≤36.00 | PASS |
|                |       |         |         | RU62 | 13.96 | ≤30.00 | 15.75 | ≤36.00 | PASS |
|                | Ant2  | 2422    | 106Tone | RU53 | 13.29 | ≤30.00 | 15.05 | ≤36.00 | PASS |
|                |       |         |         | RU56 | 13.43 | ≤30.00 | 15.19 | ≤36.00 | PASS |
|                |       | 242Tone |         | RU61 | 13.82 | ≤30.00 | 15.58 | ≤36.00 | PASS |
|                |       |         |         | RU62 | 13.64 | ≤30.00 | 15.40 | ≤36.00 | PASS |
|                | total | 2422    | 106Tone | RU53 | 16.54 | ≤30.00 | 18.32 | ≤36.00 | PASS |
|                |       |         |         | RU56 | 16.52 | ≤30.00 | 18.30 | ≤36.00 | PASS |
|                |       | 242Tone |         | RU61 | 16.86 | ≤30.00 | 18.64 | ≤36.00 | PASS |
|                |       |         |         | RU62 | 16.81 | ≤30.00 | 18.59 | ≤36.00 | PASS |
|                | Ant1  | 2437    | 106Tone | RU53 | 13.62 | ≤30.00 | 15.41 | ≤36.00 | PASS |
|                |       |         |         | RU56 | 13.48 | ≤30.00 | 15.27 | ≤36.00 | PASS |
|                |       | 242Tone |         | RU61 | 13.97 | ≤30.00 | 15.76 | ≤36.00 | PASS |
|                |       |         |         | RU62 | 14.12 | ≤30.00 | 15.91 | ≤36.00 | PASS |
|                | Ant2  | 2437    | 106Tone | RU53 | 13.05 | ≤30.00 | 14.81 | ≤36.00 | PASS |
|                |       |         |         | RU56 | 13.01 | ≤30.00 | 14.77 | ≤36.00 | PASS |
|                |       | 242Tone |         | RU61 | 13.48 | ≤30.00 | 15.24 | ≤36.00 | PASS |
|                |       |         |         | RU62 | 13.47 | ≤30.00 | 15.23 | ≤36.00 | PASS |
|                | total | 2437    | 106Tone | RU53 | 16.35 | ≤30.00 | 18.13 | ≤36.00 | PASS |
|                |       |         |         | RU56 | 16.26 | ≤30.00 | 18.04 | ≤36.00 | PASS |
|                |       | 242Tone |         | RU61 | 16.74 | ≤30.00 | 18.52 | ≤36.00 | PASS |
|                |       |         |         | RU62 | 16.82 | ≤30.00 | 18.59 | ≤36.00 | PASS |
|                | Ant1  | 2452    | 106Tone | RU53 | 13.59 | ≤30.00 | 15.38 | ≤36.00 | PASS |
|                |       |         |         | RU56 | 13.47 | ≤30.00 | 15.26 | ≤36.00 | PASS |
|                |       | 242Tone |         | RU61 | 14.05 | ≤30.00 | 15.84 | ≤36.00 | PASS |
|                |       |         |         | RU62 | 13.84 | ≤30.00 | 15.63 | ≤36.00 | PASS |
|                | Ant2  | 2452    | 106Tone | RU53 | 12.68 | ≤30.00 | 14.44 | ≤36.00 | PASS |
|                |       |         |         | RU56 | 12.72 | ≤30.00 | 14.48 | ≤36.00 | PASS |
|                |       | 242Tone |         | RU61 | 12.92 | ≤30.00 | 14.68 | ≤36.00 | PASS |
|                |       |         |         | RU62 | 12.77 | ≤30.00 | 14.53 | ≤36.00 | PASS |
|                | total | 2452    | 106Tone | RU53 | 16.17 | ≤30.00 | 17.95 | ≤36.00 | PASS |
|                |       |         |         | RU56 | 16.12 | ≤30.00 | 17.90 | ≤36.00 | PASS |
|                |       | 242Tone |         | RU61 | 16.53 | ≤30.00 | 18.31 | ≤36.00 | PASS |
|                |       |         |         | RU62 | 16.35 | ≤30.00 | 18.13 | ≤36.00 | PASS |

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 C63.10-2013 clause 11.10.5.
- (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:   | RMS                                                |
| Sweep time:      | auto                                               |
| Trace mode       | max hold                                           |
|                  | Employ trace averaging (rms)                       |
| Trace            | mode over a minimum of 100 traces.                 |

(5) Add  $[10 \log (1 / D)]$ , where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.  
If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

## 7.4. Test result

|                    |                         |                |                          |
|--------------------|-------------------------|----------------|--------------------------|
| Test Engineer:     | Zhongyao                | Test Site:     | RF Measurement System 3# |
| Ambient Condition: | 24.6-27.5℃,42.9-48.7%RH | Test Date:     | 2024.09.05-2024.09.11    |
| Test Power Supply: | AC 120V/60Hz            | Sample Number: | S24081429-001            |

| Test Mode  | Antenna | Frequency [MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|------------|---------|-----------------|------------------|-----------------|---------|
| 11B        | Ant1    | 2412            | -15.11           | ≤8.00           | PASS    |
|            | Ant2    | 2412            | -13.32           | ≤8.00           | PASS    |
|            | Ant1    | 2437            | -13.60           | ≤8.00           | PASS    |
|            | Ant2    | 2437            | -13.29           | ≤8.00           | PASS    |
|            | Ant1    | 2462            | -15.00           | ≤8.00           | PASS    |
|            | Ant2    | 2462            | -13.81           | ≤8.00           | PASS    |
| 11G        | Ant1    | 2412            | -19.37           | ≤8.00           | PASS    |
|            | Ant2    | 2412            | -19.77           | ≤8.00           | PASS    |
|            | Ant1    | 2437            | -19.42           | ≤8.00           | PASS    |
|            | Ant2    | 2437            | -19.80           | ≤8.00           | PASS    |
|            | Ant1    | 2462            | -19.73           | ≤8.00           | PASS    |
|            | Ant2    | 2462            | -19.86           | ≤8.00           | PASS    |
| 11N20MIMO  | Ant1    | 2412            | -22.31           | ≤8.00           | PASS    |
|            | Ant2    | 2412            | -23.00           | ≤8.00           | PASS    |
|            | total   | 2412            | -19.63           | ≤8.00           | PASS    |
|            | Ant1    | 2437            | -22.06           | ≤8.00           | PASS    |
|            | Ant2    | 2437            | -23.10           | ≤8.00           | PASS    |
|            | total   | 2437            | -19.54           | ≤8.00           | PASS    |
|            | Ant1    | 2462            | -22.64           | ≤8.00           | PASS    |
|            | Ant2    | 2462            | -22.83           | ≤8.00           | PASS    |
| 11N40MIMO  | total   | 2462            | -19.72           | ≤8.00           | PASS    |
|            | Ant1    | 2422            | -27.43           | ≤8.00           | PASS    |
|            | Ant2    | 2422            | -27.87           | ≤8.00           | PASS    |
|            | total   | 2422            | -24.63           | ≤8.00           | PASS    |
|            | Ant1    | 2437            | -27.40           | ≤8.00           | PASS    |
|            | Ant2    | 2437            | -27.79           | ≤8.00           | PASS    |
|            | total   | 2437            | -24.58           | ≤8.00           | PASS    |
|            | Ant1    | 2452            | -27.53           | ≤8.00           | PASS    |
| 11AX20MIMO | Ant2    | 2452            | -27.52           | ≤8.00           | PASS    |
|            | total   | 2452            | -24.51           | ≤8.00           | PASS    |
|            | Ant1    | 2412            | -21.38           | ≤8.00           | PASS    |
|            | Ant2    | 2412            | -22.54           | ≤8.00           | PASS    |
|            | total   | 2412            | -18.91           | ≤8.00           | PASS    |
|            | Ant1    | 2437            | -21.46           | ≤8.00           | PASS    |
|            | Ant2    | 2437            | -23.03           | ≤8.00           | PASS    |
|            | total   | 2437            | -19.16           | ≤8.00           | PASS    |
| 11AX40MIMO | Ant1    | 2462            | -21.92           | ≤8.00           | PASS    |
|            | Ant2    | 2462            | -22.12           | ≤8.00           | PASS    |
|            | total   | 2462            | -19.01           | ≤8.00           | PASS    |
|            | Ant1    | 2422            | -25.76           | ≤8.00           | PASS    |
|            | Ant2    | 2422            | -25.29           | ≤8.00           | PASS    |
|            | total   | 2422            | -22.51           | ≤8.00           | PASS    |
|            | Ant1    | 2437            | -25.55           | ≤8.00           | PASS    |
|            | Ant2    | 2437            | -26.46           | ≤8.00           | PASS    |
| 11AX40MIMO | total   | 2437            | -22.97           | ≤8.00           | PASS    |
|            | Ant1    | 2452            | -25.52           | ≤8.00           | PASS    |
|            | Ant2    | 2452            | -25.85           | ≤8.00           | PASS    |
|            | total   | 2452            | -22.67           | ≤8.00           | PASS    |

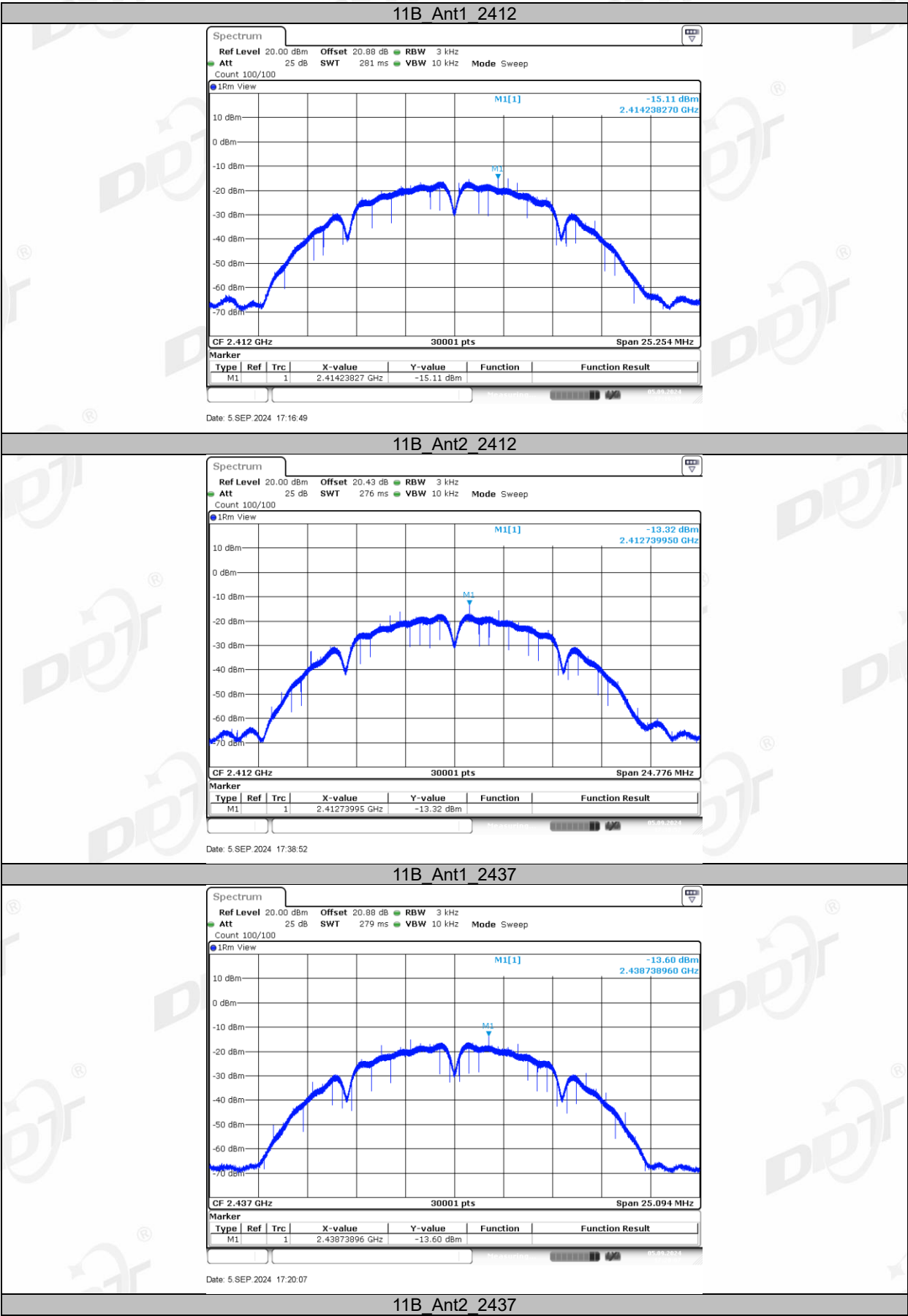
| Test ode       | Antenna | Frequency [MHz] | RuSize  | RuIndex | Result [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|----------------|---------|-----------------|---------|---------|-------------------|------------------|---------|
| 11AX20<br>MIMO | Ant1    | 2412            | 26Tone  | RU0     | -10.05            | ≤8.00            | PASS    |
|                |         |                 |         | RU4     | -9.75             | ≤8.00            | PASS    |
|                |         |                 |         | RU8     | -10.11            | ≤8.00            | PASS    |
|                |         |                 | 52Tone  | RU37    | -11.56            | ≤8.00            | PASS    |
|                |         |                 |         | RU39    | -13.54            | ≤8.00            | PASS    |
|                |         |                 |         | RU40    | -12.07            | ≤8.00            | PASS    |
|                |         |                 | 106Tone | RU53    | -14.34            | ≤8.00            | PASS    |
|                |         |                 |         | RU54    | -13.93            | ≤8.00            | PASS    |
|                | Ant2    | 2412            | 26Tone  | RU0     | -9.63             | ≤8.00            | PASS    |
|                |         |                 |         | RU4     | -9.70             | ≤8.00            | PASS    |
|                |         |                 |         | RU8     | -10.97            | ≤8.00            | PASS    |
|                |         |                 | 52Tone  | RU37    | -12.10            | ≤8.00            | PASS    |
|                |         |                 |         | RU39    | -14.60            | ≤8.00            | PASS    |
|                |         |                 |         | RU40    | -13.16            | ≤8.00            | PASS    |
|                |         |                 | 106Tone | RU53    | -14.49            | ≤8.00            | PASS    |
|                |         |                 |         | RU54    | -14.31            | ≤8.00            | PASS    |
|                | total   | 2412            | 26Tone  | RU0     | -6.82             | ≤8.00            | PASS    |
|                |         |                 |         | RU4     | -6.71             | ≤8.00            | PASS    |
|                |         |                 |         | RU8     | -7.51             | ≤8.00            | PASS    |
|                |         |                 | 52Tone  | RU37    | -8.81             | ≤8.00            | PASS    |
|                |         |                 |         | RU39    | -11.03            | ≤8.00            | PASS    |
|                |         |                 |         | RU40    | -9.57             | ≤8.00            | PASS    |
|                |         |                 | 106Tone | RU53    | -11.40            | ≤8.00            | PASS    |
|                |         |                 |         | RU54    | -11.11            | ≤8.00            | PASS    |
|                | Ant1    | 2437            | 26Tone  | RU0     | -10.33            | ≤8.00            | PASS    |
|                |         |                 |         | RU4     | -10.58            | ≤8.00            | PASS    |
|                |         |                 |         | RU8     | -9.69             | ≤8.00            | PASS    |
|                |         |                 | 52Tone  | RU37    | -13.19            | ≤8.00            | PASS    |
|                |         |                 |         | RU39    | -13.68            | ≤8.00            | PASS    |
|                |         |                 |         | RU40    | -12.19            | ≤8.00            | PASS    |
|                |         |                 | 106Tone | RU53    | -14.79            | ≤8.00            | PASS    |
|                |         |                 |         | RU54    | -12.91            | ≤8.00            | PASS    |
|                | Ant2    | 2437            | 26Tone  | RU0     | -10.37            | ≤8.00            | PASS    |
|                |         |                 |         | RU4     | -10.18            | ≤8.00            | PASS    |
|                |         |                 |         | RU8     | -9.26             | ≤8.00            | PASS    |
|                |         |                 | 52Tone  | RU37    | -12.68            | ≤8.00            | PASS    |
|                |         |                 |         | RU39    | -13.16            | ≤8.00            | PASS    |
|                |         |                 |         | RU40    | -12.06            | ≤8.00            | PASS    |
|                |         |                 | 106Tone | RU53    | -14.92            | ≤8.00            | PASS    |
|                |         |                 |         | RU54    | -13.02            | ≤8.00            | PASS    |
|                | total   | 2437            | 26Tone  | RU0     | -7.34             | ≤8.00            | PASS    |
|                |         |                 |         | RU4     | -7.37             | ≤8.00            | PASS    |
|                |         |                 |         | RU8     | -6.46             | ≤8.00            | PASS    |
|                |         |                 | 52Tone  | RU37    | -9.92             | ≤8.00            | PASS    |
|                |         |                 |         | RU39    | -10.40            | ≤8.00            | PASS    |
|                |         |                 |         | RU40    | -9.11             | ≤8.00            | PASS    |
|                |         |                 | 106Tone | RU53    | -11.84            | ≤8.00            | PASS    |
|                |         |                 |         | RU54    | -9.95             | ≤8.00            | PASS    |
|                | Ant1    | 2462            | 26Tone  | RU0     | -9.82             | ≤8.00            | PASS    |
|                |         |                 |         | RU4     | -10.39            | ≤8.00            | PASS    |
|                |         |                 |         | RU8     | -9.37             | ≤8.00            | PASS    |
|                |         |                 | 52Tone  | RU37    | -12.10            | ≤8.00            | PASS    |
|                |         |                 |         | RU39    | -13.47            | ≤8.00            | PASS    |
|                |         |                 |         | RU40    | -12.07            | ≤8.00            | PASS    |
|                |         |                 | 106Tone | RU53    | -13.71            | ≤8.00            | PASS    |
|                |         |                 |         | RU54    | -13.29            | ≤8.00            | PASS    |
|                | Ant2    | 2462            | 26Tone  | RU0     | -9.89             | ≤8.00            | PASS    |
|                |         |                 |         | RU4     | -10.03            | ≤8.00            | PASS    |
|                |         |                 |         | RU8     | -11.00            | ≤8.00            | PASS    |
|                |         |                 | 52Tone  | RU37    | -12.86            | ≤8.00            | PASS    |
|                |         |                 |         | RU39    | -12.94            | ≤8.00            | PASS    |
|                |         |                 |         | RU40    | -11.72            | ≤8.00            | PASS    |

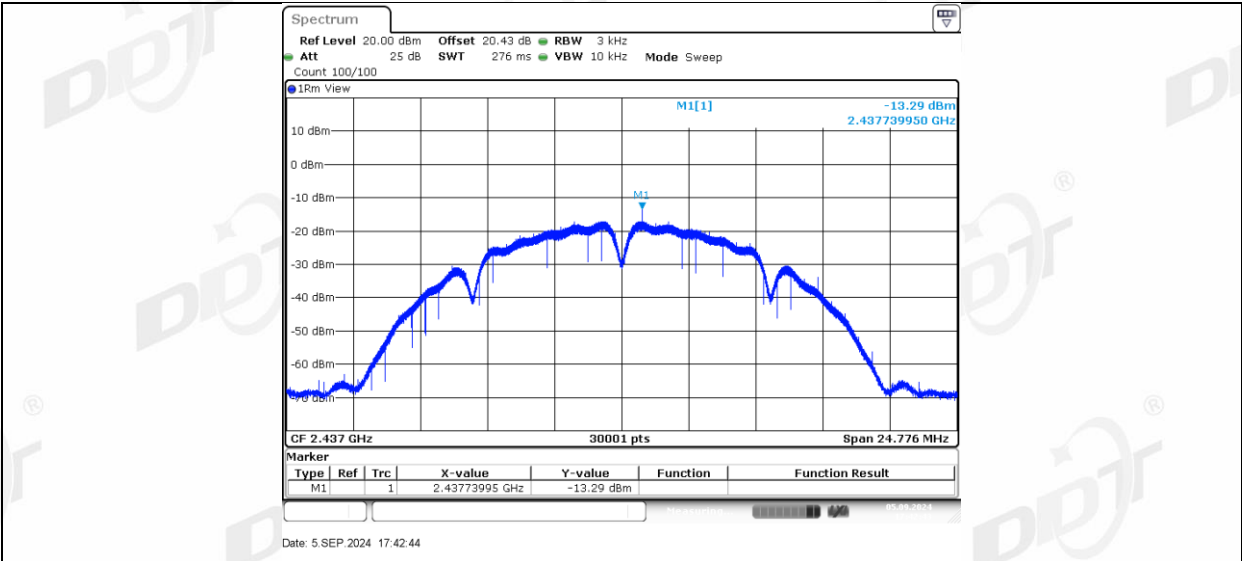


|                |       |      |         |      |        |       |      |
|----------------|-------|------|---------|------|--------|-------|------|
|                | total | 2462 | 106Tone | RU53 | -15.15 | ≤8.00 | PASS |
|                |       |      | 26Tone  | RU54 | -12.95 | ≤8.00 | PASS |
|                |       |      |         | RU0  | -6.84  | ≤8.00 | PASS |
|                |       |      |         | RU4  | -7.20  | ≤8.00 | PASS |
|                |       |      | 52Tone  | RU8  | -7.10  | ≤8.00 | PASS |
|                |       |      |         | RU37 | -9.45  | ≤8.00 | PASS |
|                |       |      |         | RU39 | -10.19 | ≤8.00 | PASS |
|                |       |      |         | RU40 | -8.88  | ≤8.00 | PASS |
|                |       |      | 106Tone | RU53 | -11.36 | ≤8.00 | PASS |
|                |       |      |         | RU54 | -10.11 | ≤8.00 | PASS |
| 11AX40<br>MIMO | Ant1  | 2422 | 106Tone | RU53 | -14.48 | ≤8.00 | PASS |
|                |       |      |         | RU56 | -12.35 | ≤8.00 | PASS |
|                |       |      | 242Tone | RU61 | -16.37 | ≤8.00 | PASS |
|                |       |      |         | RU62 | -15.15 | ≤8.00 | PASS |
|                | Ant2  | 2422 | 106Tone | RU53 | -13.36 | ≤8.00 | PASS |
|                |       |      |         | RU56 | -12.23 | ≤8.00 | PASS |
|                |       |      | 242Tone | RU61 | -15.57 | ≤8.00 | PASS |
|                |       |      |         | RU62 | -14.06 | ≤8.00 | PASS |
|                | total | 2422 | 106Tone | RU53 | -10.87 | ≤8.00 | PASS |
|                |       |      |         | RU56 | -9.28  | ≤8.00 | PASS |
|                |       |      | 242Tone | RU61 | -12.94 | ≤8.00 | PASS |
|                |       |      |         | RU62 | -11.56 | ≤8.00 | PASS |
|                | Ant1  | 2437 | 106Tone | RU53 | -13.03 | ≤8.00 | PASS |
|                |       |      |         | RU56 | -12.91 | ≤8.00 | PASS |
|                |       |      | 242Tone | RU61 | -15.93 | ≤8.00 | PASS |
|                |       |      |         | RU62 | -15.22 | ≤8.00 | PASS |
|                | Ant2  | 2437 | 106Tone | RU53 | -13.86 | ≤8.00 | PASS |
|                |       |      |         | RU56 | -12.65 | ≤8.00 | PASS |
|                |       |      | 242Tone | RU61 | -15.41 | ≤8.00 | PASS |
|                |       |      |         | RU62 | -15.01 | ≤8.00 | PASS |
|                | total | 2437 | 106Tone | RU53 | -10.41 | ≤8.00 | PASS |
|                |       |      |         | RU56 | -9.77  | ≤8.00 | PASS |
|                |       |      | 242Tone | RU61 | -12.65 | ≤8.00 | PASS |
|                |       |      |         | RU62 | -12.10 | ≤8.00 | PASS |
|                | Ant1  | 2452 | 106Tone | RU53 | -13.30 | ≤8.00 | PASS |
|                |       |      |         | RU56 | -12.20 | ≤8.00 | PASS |
|                |       |      | 242Tone | RU61 | -16.32 | ≤8.00 | PASS |
|                |       |      |         | RU62 | -16.11 | ≤8.00 | PASS |
|                | Ant2  | 2452 | 106Tone | RU53 | -13.80 | ≤8.00 | PASS |
|                |       |      |         | RU56 | -12.05 | ≤8.00 | PASS |
|                |       |      | 242Tone | RU61 | -15.72 | ≤8.00 | PASS |
|                |       |      |         | RU62 | -16.10 | ≤8.00 | PASS |
|                | total | 2452 | 106Tone | RU53 | -10.53 | ≤8.00 | PASS |
|                |       |      |         | RU56 | -9.11  | ≤8.00 | PASS |
|                |       |      | 242Tone | RU61 | -13.00 | ≤8.00 | PASS |
|                |       |      |         | RU62 | -13.09 | ≤8.00 | PASS |

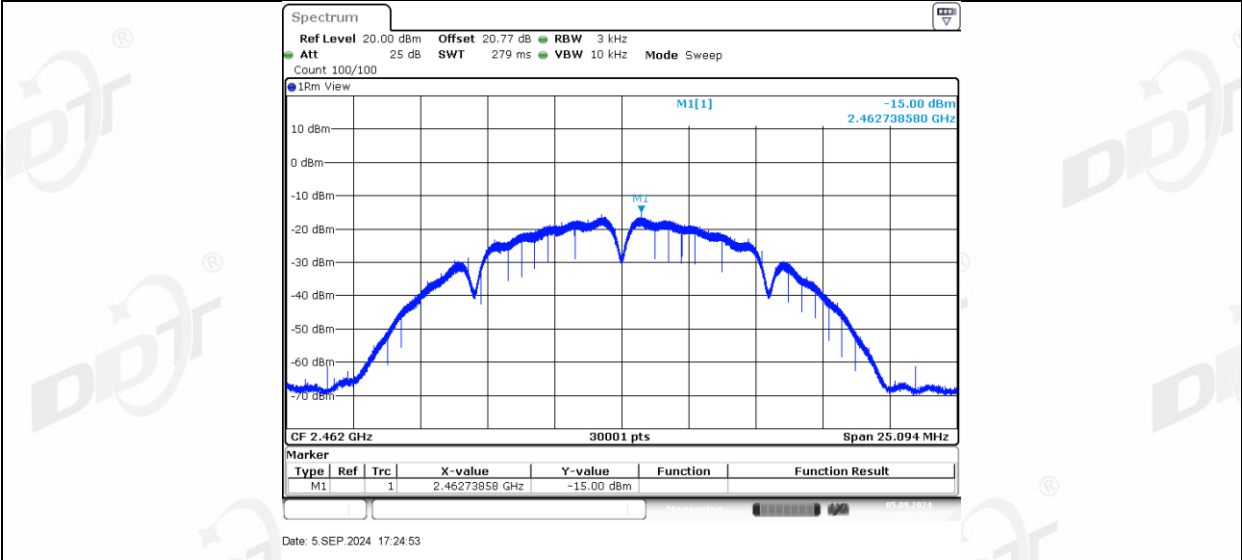
Note: The Duty Cycle Factor is compensated in the graph.

7.5. Test graphs

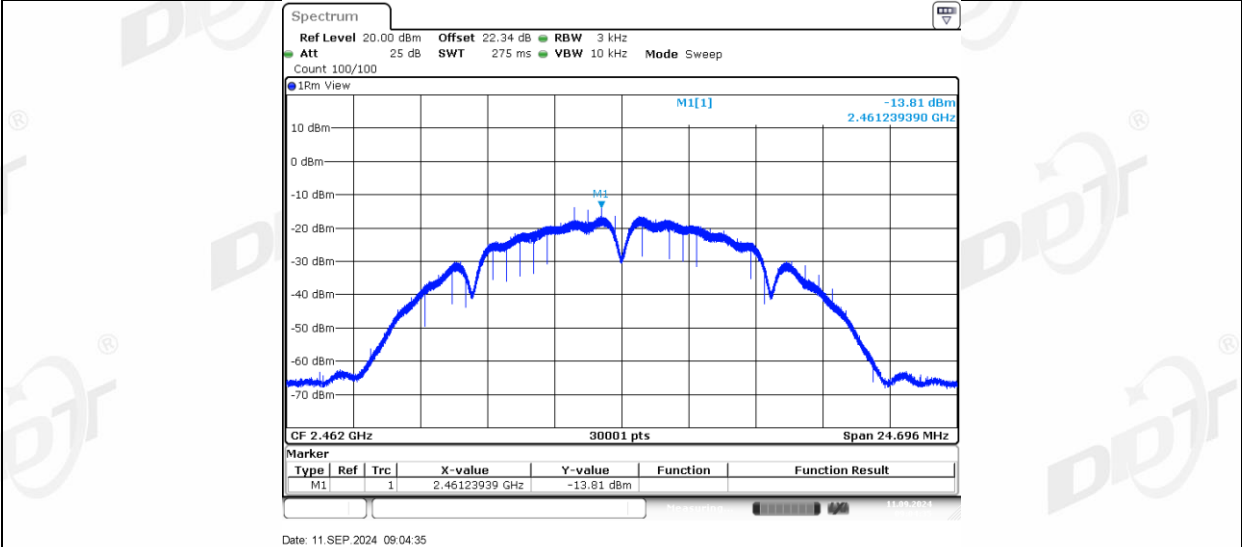




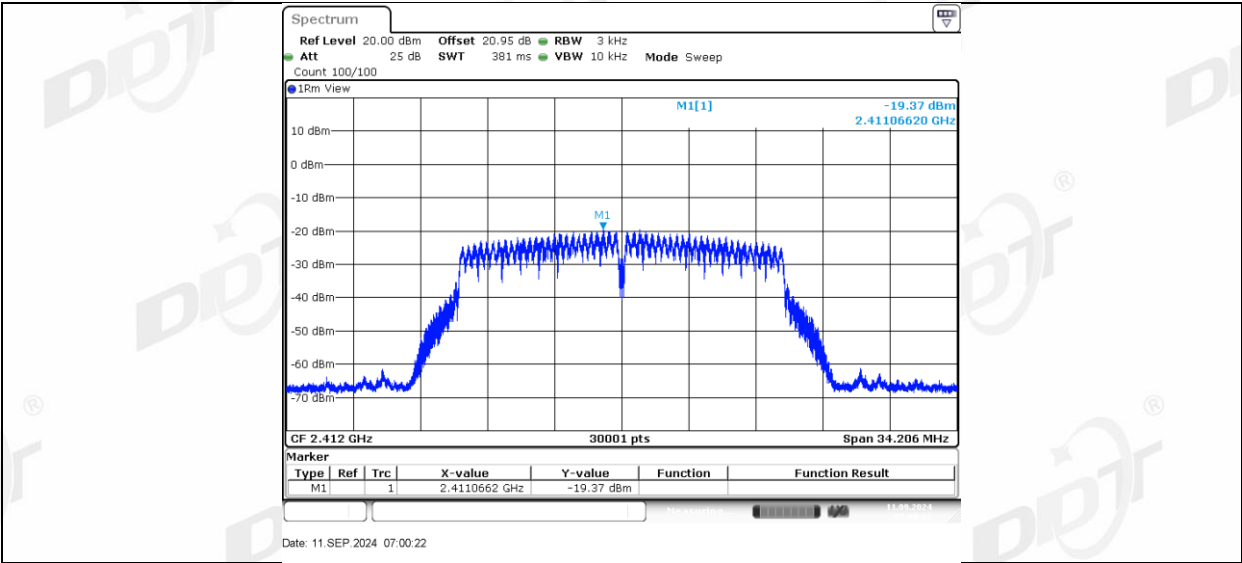
11B\_Ant1\_2462



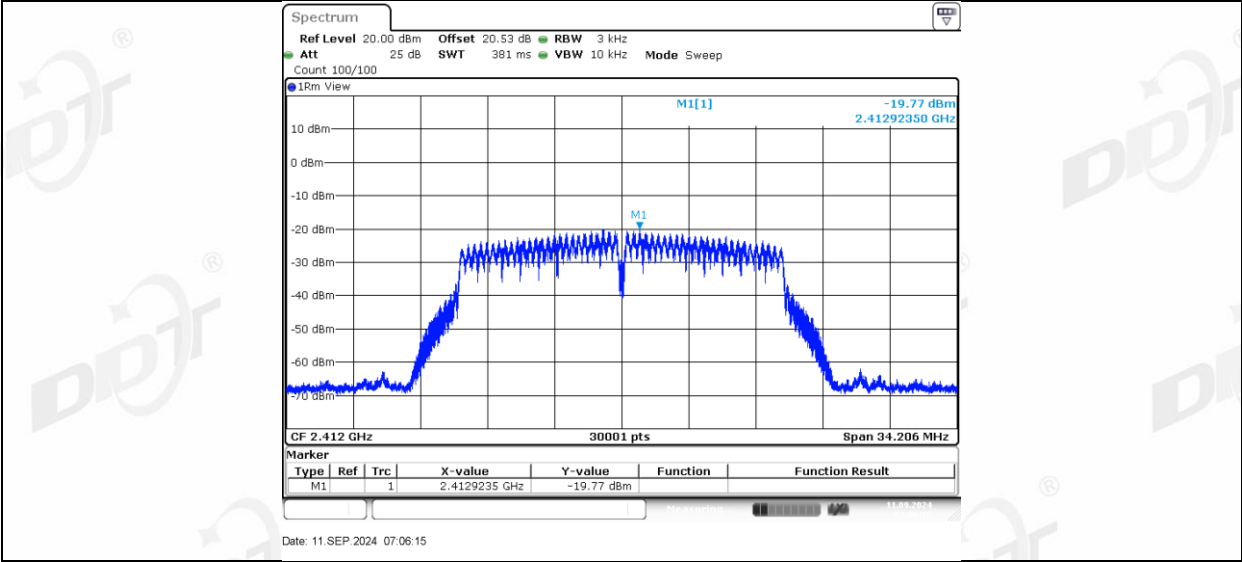
11B\_Ant2\_2462



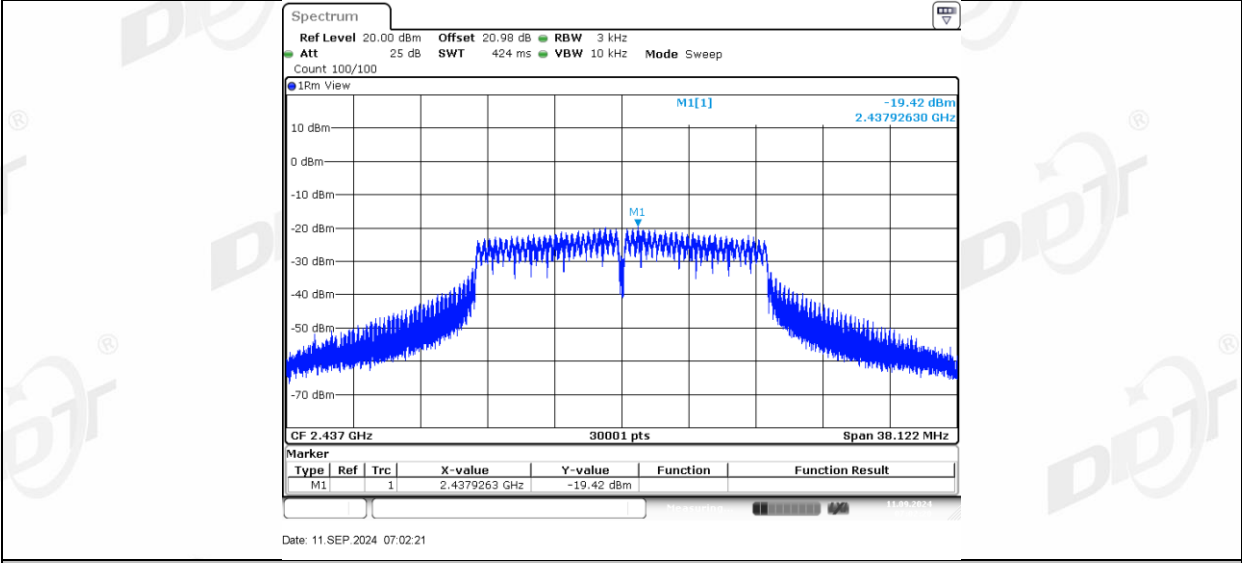
11G\_Ant1\_2412



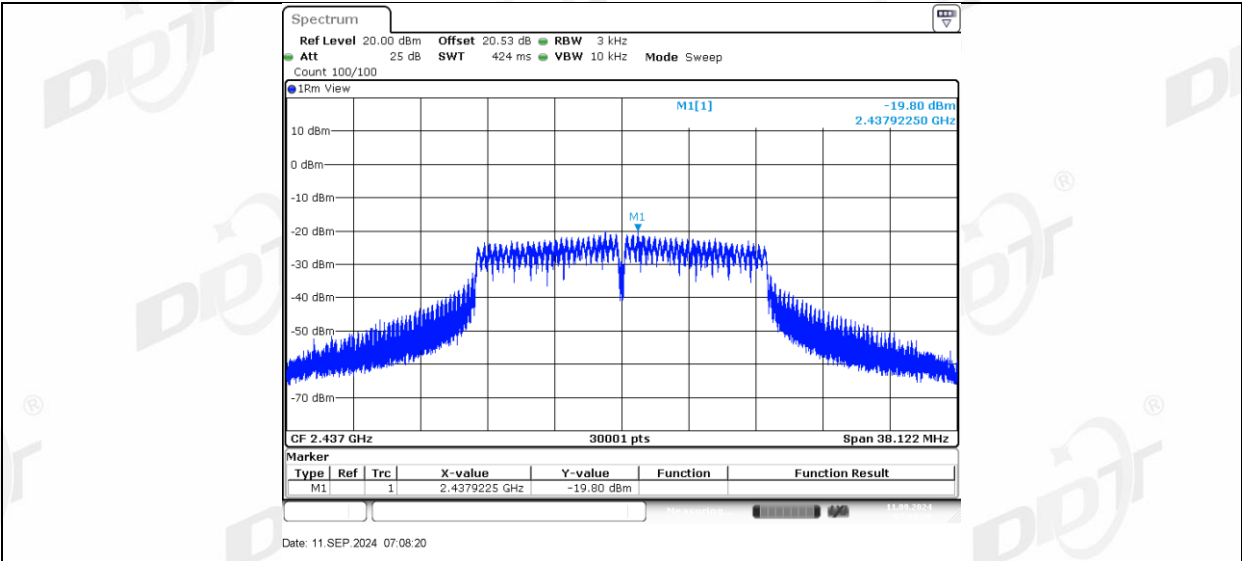
11G\_Ant2\_2412



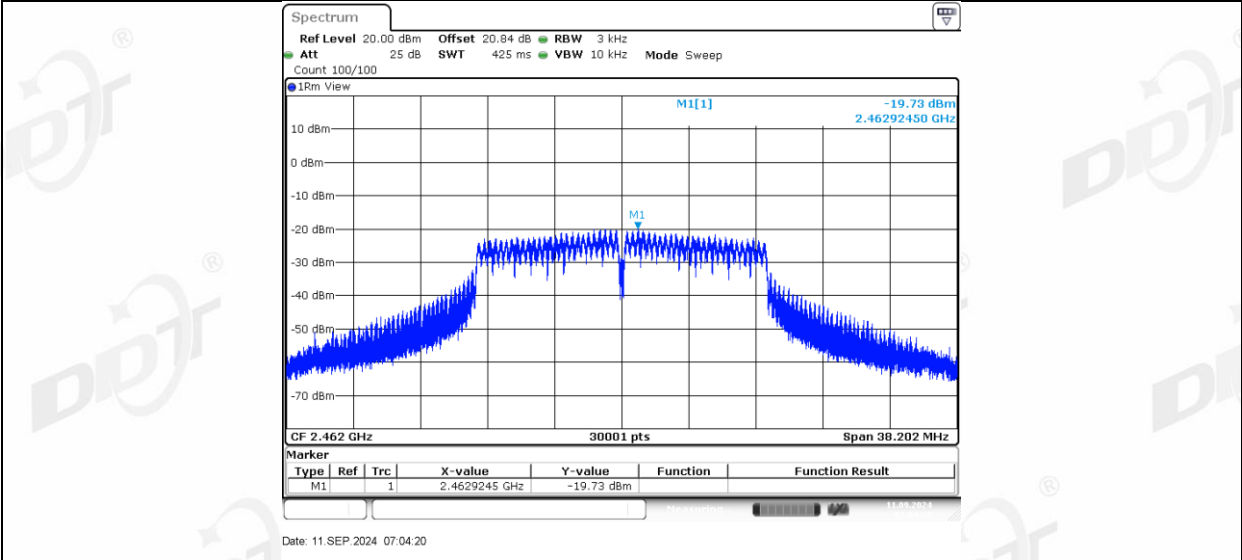
11G\_Ant1\_2437



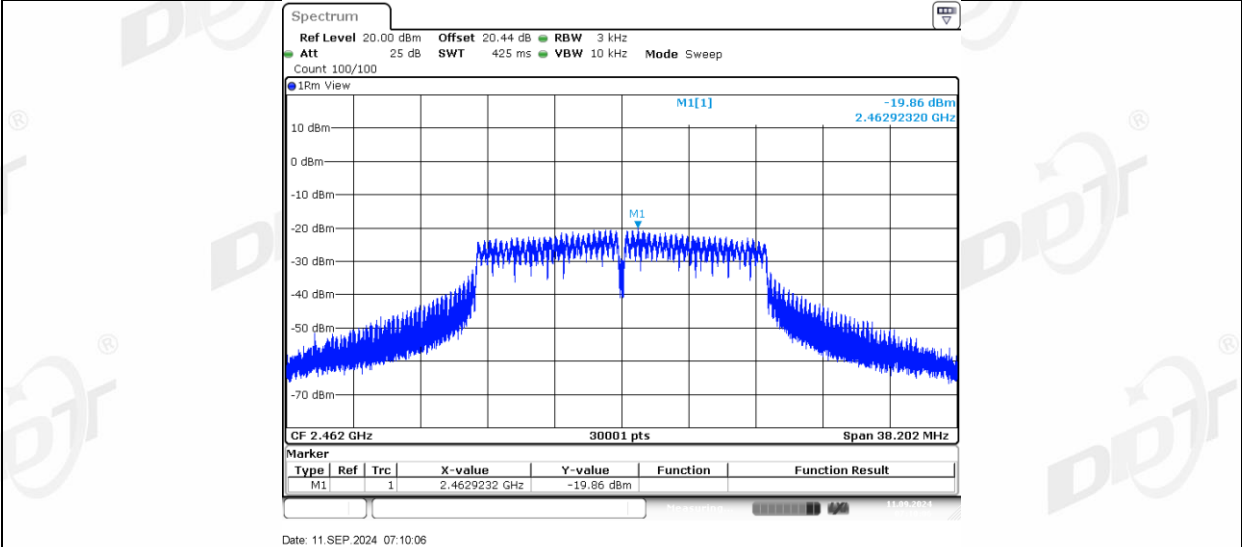
11G\_Ant2\_2437



11G Ant1\_2462



11G Ant2\_2462



11N20MIMO\_Ant1\_2412