

## TEST REPORT

**Applicant:** Renesas Design Korea Inc.

**Address:** 7th SiliconPark, 35 Pangyo-ro 255 beon-gil Bundang-gu,  
Seongnam-si, Gyeonggi-do, 13486 Republic of Korea

**Product Name:** RRQ61051 Module

**Model(s):** RRQ61051-008, RRQ61051-208, RRQ61051-408

**Type of Equipment:** Certification Ordinance Article 2, Paragraph 1, Item 19

**Test method(s):** MIC Notice No.88 of 2004, Appendix No.43(Version: MIC Notice  
No.409 of 2023)

**Report Number:** 2502Q45186E-RF-07A

**Report Date:** 2025/11/25

The above device has been tested and found compliant with the requirement of the relevant standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number      | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| 1.0             | 2502Q45186E-RF-07A | Original Report         | 2025/11/25       |

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

|                      |                              |
|----------------------|------------------------------|
| Product Name:        | RRQ61051 Module              |
| Test Model:          | RRQ61051-008                 |
| Multiple Models:     | RRQ61051-208, RRQ61051-408   |
| Model Difference:    | Please refer to the DoS      |
| Rated Input Voltage: | 1.8~3.6Vdc (Typical:3.3Vdc)  |
| Serial Number:       | 2YV8-1 (model: RRQ61051-008) |
|                      | 2YV8-2 (model: RRQ61051-208) |
|                      | 2YV8-3 (model: RRQ61051-408) |
| EUT Received Date:   | 2025/2/26                    |
| EUT Received Status: | Good                         |

Accessory Information

| Accessory Description | Manufacturer | Model | Parameters |
|-----------------------|--------------|-------|------------|
| /                     | /            | /     | /          |

Technical Specification

|                                                                                                                           |                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Operation Frequency Range (MHz):                                                                                          | 802.11b/g/n20/ax20: 2412-2472                                                             |
| Max. RF Output Power (Conducted):                                                                                         | 802.11b: 9.1mW/MHz<br>802.11g: 5.0mW/MHz<br>802.11n20: 4.2mW/MHz<br>802.11ax20: 3.8mW/MHz |
| Number of TX Chain(s):                                                                                                    | 1                                                                                         |
| Number of RX Chain(s):                                                                                                    | 1                                                                                         |
| Antenna Gain (dBi) <sup>▲</sup> :                                                                                         | -0.2                                                                                      |
| Modulation Type:                                                                                                          | DSSS, OFDM, OFDMA                                                                         |
| Emission Type                                                                                                             | G1D, D1D                                                                                  |
| Note: For this product, the manufacturer declares that 802.11ax mode only supports full RU and doesn't support partial RU |                                                                                           |

**SUMMARY OF TEST RESULTS**

| SN | Description of Test                                           | Result              |
|----|---------------------------------------------------------------|---------------------|
| 1  | Frequency Error                                               | Compliant           |
| 2  | Occupied Bandwidth and Spread Bandwidth                       | Compliant           |
| 3  | Transmitter Spurious Emission and Unwanted Emission Intensity | Compliant           |
| 4  | Antenna Output Power and Output Power Tolerance               | Compliant           |
| 5  | Receiver Spurious Emission and Unwanted Emission Intensity    | Compliant           |
| 6  | Carrier sense capability (1)                                  | Not Applicable*     |
| 7  | Carrier sense capability (2)                                  | Not Applicable**    |
| 8  | Carrier sense capability (3)                                  | Not Applicable***   |
| 9  | Transmission frequency channel switching function             | Not Applicable*     |
| 10 | Transmission Antenna Gain                                     | Not Applicable****  |
| 11 | Transmission Radiation Angle Width                            | Not Applicable****  |
| 12 | Interference Prevention Function                              | Compliant           |
| 13 | Frequency Hopping Dwell Time                                  | Not Applicable***** |
| 14 | Construction Protection Confirmation                          | Compliant           |

**Note:**

Not Applicable\*: Only required for device with “compensating for the reduction of EIRP with output power” function.

Not Applicable\*\*: Only required for OBW between 26MHz and 40MHz with OFDM modulation type.

Not Applicable\*\*\*: Only required for outdoor use radio control of model airplanes.

Not Applicable\*\*\*\*: This item not applicable when the EIRP less than the limit.

Not Applicable\*\*\*\*\*: Testing is only required for FHSS system devices.

Note: The “RRQ61051-008” was used for full tests, the rest were made a spot check for output power only. By power check, the checked power is closed to the “RRQ61051-008”, and there is hardly much difference.

## DESCRIPTION OF TEST CONFIGURATION

### Operation Frequency Detail

The system was configured for testing in engineering mode, which was provided by manufacturer. 13 channels are provided as below table:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1       | 2412            | 8       | 2447            |
| 2       | 2417            | 9       | 2452            |
| 3       | 2422            | 10      | 2457            |
| 4       | 2427            | 11      | 2462            |
| 5       | 2432            | 12      | 2467            |
| 6       | 2437            | 13      | 2472            |
| 7       | 2442            | /       | /               |

For lowest, middle and highest channel, 802.11b, 802.11g, 802.11n-HT20, and 802.11ax-hw20 modes were tested with Channel 1, 7 and 13.

The extreme voltage test conditions which were declared by the manufacturer and the normal conditions are as below:

NV: Normal Voltage 3.3V<sub>DC</sub>

LV: Low Voltage 1.8V<sub>DC</sub>

HV: High Voltage 3.6V<sub>DC</sub>

The differences between of all modes:

| Model        | Description                                                          |                                                       |                   | Other                                                                                                                            |
|--------------|----------------------------------------------------------------------|-------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------|
| RRQ61051-008 | WiFi/BLE combo module, WiFi6-Dual band 2.4/5GHz 802.11 a/b/g/n/ac/ax | /                                                     | WiFi Chip: RA6W1C | The software difference that whether 5GHz band or 802.11ax mode is supported. The WiFi Chip are different. The hardware is same. |
| RRQ61051-208 | WiFi/BLE combo module, WiFi4-Single band 2.4GHz 802.11 b/g/n         | Disabled the 5GHz band and 802.11ax mode on software. | WiFi Chip: RA6W1A |                                                                                                                                  |
| RRQ61051-408 | WiFi/BLE combo module, WiFi6-Single band 2.4GHz 802.11 b/g/n/ax      | Disabled the 5GHz band on software.                   | WiFi Chip: RA6W1B |                                                                                                                                  |

The EUT in built a power manage system, power deviation of the RF chipset input is less than 1% when the extreme voltage supplied by measuring the voltage of pin 48 (VDDRF), therefore the test only performed at normal condition. Details as following:

| Voltage Condition | Input(V <sub>DC</sub> ) | RF System Voltage(V <sub>DC</sub> ) |
|-------------------|-------------------------|-------------------------------------|
| NV                | 3.3                     | 1.37                                |
| LV                | 1.8                     | 1.37                                |
| HV                | 3.6                     | 1.37                                |

## EUT Operation Condition

The EUT was configured for testing in Engineering Mode, which was provided by the manufacturer. The EUT configuration as below:

EUT Exercise Software:

Tera Term VT

The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer<sup>▲</sup>. The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the output power across all data rates bandwidths, and modulations.

| Mode        | Channel | Frequency (MHz) | Data rate (Mbps) | Power level |
|-------------|---------|-----------------|------------------|-------------|
| 802.11 b    | Low     | 2412            | 1                | 14          |
|             | Middle  | 2442            | 1                | 18          |
|             | High    | 2472            | 1                | 16          |
| 802.11 g    | Low     | 2412            | 6                | 14          |
|             | Middle  | 2442            | 6                | 15          |
|             | High    | 2472            | 6                | 13          |
| 802.11 n20  | Low     | 2412            | MCS0             | 13          |
|             | Middle  | 2442            | MCS0             | 14          |
|             | High    | 2472            | MCS0             | 13          |
| 802.11 ax20 | Low     | 2412            | MCS0             | 13          |
|             | Middle  | 2442            | MCS0             | 14          |
|             | High    | 2472            | MCS0             | 13          |

## Equipment Modifications

No modifications are made to the EUT during all test items.

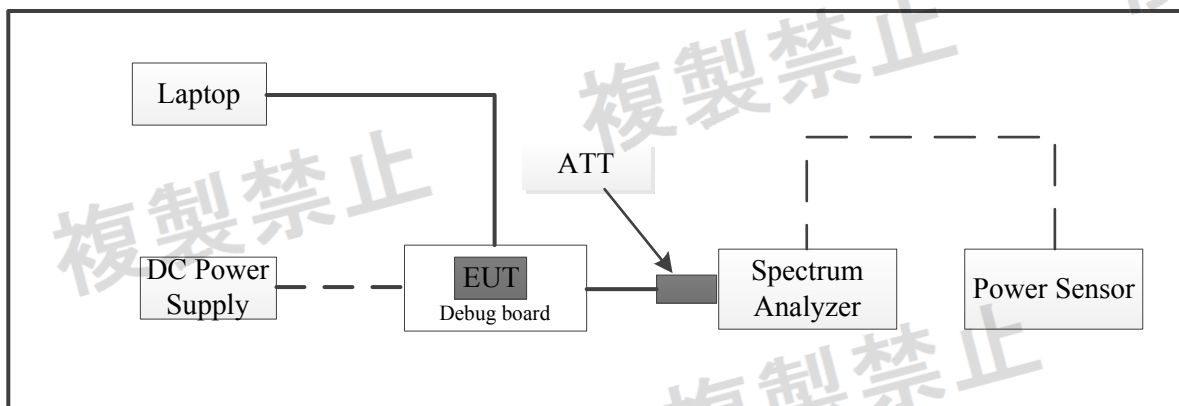
## Support Equipment List and Details

| Manufacturer | Description | Model   | Serial Number |
|--------------|-------------|---------|---------------|
| Azeyoo       | Laptop      | AL141U  | unknown       |
| unknown      | Debug Board | unknown | unknown       |

## Support Cable List and Details

| Manufacturer | Shielding Type | Ferrite Core | Length (m) | From Port   | To     |
|--------------|----------------|--------------|------------|-------------|--------|
| USB Cable    | NO             | NO           | 1.1        | Debug Board | Laptop |

## Configuration of Test Setup



## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

## Measurement Uncertainty

Otherwise required by the applicant or product regulations, decision rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

| Parameter                                  | Measurement Uncertainty |
|--------------------------------------------|-------------------------|
| Frequency Error                            | $\pm 0,5$ ppm           |
| Occupied bandwidth and spreading bandwidth | $\pm 5$ %               |
| RF output power, conducted                 | $\pm 0.61$ dB           |
| Unwanted Emissions(TX&RX), conducted       | $\pm 1.5$ dB            |
| Temperature                                | $\pm 1$ °C              |
| Humidity                                   | $\pm 5$ %               |
| DC and low frequency voltages              | $\pm 0.4$ %             |
| Duty Cycle                                 | 1 %                     |

## 1 - FREQUENCY ERROR

### Limit

Within  $\pm 50\text{ppm}$ .

### Test Procedure

Set the EUT to the measurement frequency without modulation.

Setting of SA is following as: Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: MAX Hold.

Record the peak spot frequency.

If the EUT can't set at un-modulation mode, measure the 10dBc center frequency.

### Test Data

**Test Result:** Compliant. The details please refer to the Appendix.

## 2 - OCCUPIED BANDWIDTH

### Limit

- Occupied bandwidth:  $\leq 26$  MHz for 20M system
- Occupied bandwidth:  $\geq 26$  MHz and  $\leq 40$  MHz for 40M system
- Spreading bandwidth: 500kHz or more
- Spreading Factor: 5 or more

### Test Procedure

1. Setting of SA is following as: RB: 300 kHz/VB: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of bandwidth function to measure occupied bandwidth.
3. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 90% of bandwidth function to measure spread bandwidth.
4. Spread Factor=Spread Bandwidth/modulation rate. The modulation rate: MR= 1.375 for 802.11b(DSSS).

### Test Data

**Test Result:** Compliant. The details please refer to the Appendix.

### 3 - TRANSMITTER SPURIOUS EMISSION STRENGTH AND UNWANTED EMISSION INTENSITY

#### Limit

- $30\text{MHz} \leq f < 2387\text{ MHz}; \leq 2.5\mu\text{W/MHz}$
- $2387\text{ MHz} \leq f \leq 2400\text{ MHz}; \leq 25\mu\text{W/MHz};$
- $2483.5\text{ MHz} < f \leq 2496.5\text{ MHz}; \leq 25\mu\text{W/MHz}$
- $2496.5\text{ MHz} < f \leq 12500\text{MHz}; \leq 2.5\mu\text{W/MHz}$

#### Test Procedure

##### ❖ Conditions of Application Equipment (EUT)

- The modulation state shall be in continuously transmitting mode.

##### ❖ Spectrum Analyzer Conditions

- Setting of SA start 30MHz and stop frequency 1000MHz, RB:100kHz/VB:100kHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than  $0.25\mu\text{W}/100\text{kHz}$ .
- Setting of SA start 1000MHz and stop frequency 2387MHz, RB:1MHz/VB:1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than  $2.5\mu\text{W}/\text{MHz}$ .
- Setting of SA start 2387MHz and stop frequency 2400MHz, RB:1MHz/VB:1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than  $25\mu\text{W}/\text{MHz}$ .
- Setting of SA start 2483.5MHz and stop frequency 2496.5MHz, RB:1MHz/VB:1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than  $25\mu\text{W}/\text{MHz}$ .
- Setting of SA start 2496.5MHz and stop frequency 12500MHz, RB:1MHz/VB:1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than  $2.5\mu\text{W}/\text{MHz}$ .

If above test over the limit, the below test procedure should be used:

##### Step 1:

Center the frequency which was want to investigate, search the peak frequency.

##### Step 2:

- Center frequency: Searched Frequency
- Span: 0Hz
- RBW:1MHz(Above 1GHz), VBW: Same as RBW.
- Sweep time: Auto(Minimum time to ensure measurement accuracy. \*In case of burst wave, one burst shall be included per data point) Data points: 400 points or more. Sweep mode: Single Sweep.
- Detection Mode: Sample

#### Test Data

**Test Result:** Compliant. The details please refer to the Appendix.

## 4 - ANTENNA OUTPUT POWER AND ANTENNA POWER TOLERANCE

### Limit

- $\leq 10\text{mW/MHz}$  (OFDM/DSSS for bandwidth  $\leq 26\text{MHz}$ )
- $\leq 5\text{mW/MHz}$  (OFDM for bandwidth  $>26\text{MHz}$  and bandwidth  $\leq 40\text{MHz}$ )

The Output Power Tolerance must be within +20%, -80%.

### E.i.r.p:

- $\leq 12.14\text{dBm/MHz}$  (OFDM/DSSS for bandwidth  $\leq 26\text{MHz}$ )
- $\leq 9.13\text{dBm/MHz}$  (OFDM for bandwidth  $>26\text{MHz}$  and bandwidth  $\leq 40\text{MHz}$ )

Note: E.I.R.P will not be applied to the transmission antenna which has a gain of 2.14dBi or less.

### Test Procedure

#### Step 1:

Use the following settings on the spectrum analyser:

- Centre Frequency: The centre frequency of the channel under test.
- Resolution BW: 1 MHz.
- Video BW: 3MHz.
- Detector mode: Peak.
- Averaging: Off.
- Sweep: Continuous.
- Span: Twice the nominal OBW.

#### Step 2:

Connect the E.U.T. to the Spectrum Analyzer and switch on the U.U.T.

#### Step 3:

Adjust the Reference Level of the Spectrum Analyzer so that the peak of the power envelope is between the Reference Level and the Reference Level - 10 dB. This assumes a 10 dB/division setting is used on the spectrum analyser.

#### Step 4:

Use the marker to find the peak value of the power envelope.

Adjust the centre frequency of the analyser to the marker frequency, resulting in the peak of the power envelope being in the centre of the screen.

#### Step 5:

Change the Spectrum Analyzer settings as follows:

- Resolution BW: 1 MHz.
- Video BW: 1 MHz.
- Detector mode: Peak.
- Averaging: Off.
- Sweep: Continuous.
- Span: 0 Hz.

#### Step 6:

Connect a Power Meter to the "Narrow I.F" output port of the Spectrum Analyzer. The power is set Auto Duty factor.

NOTE: The IF output of the spectrum analyser may be 20 dB or more below the input level of the spectrum analyser. Unless the power meter has adequate sensitivity, a wideband amplifier may be required.

Adjust the Centre Frequency of the spectrum analyser carefully (fine tune) for maximum indication on the power meter.

The level measured by the power meter shall be recorded as level "D".

The maximum e.i.r.p. is calculated from the above measured "D", and the applicable antenna assembly gain "G" in dBi, according to the formula below. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the highest gain shall be used.

- $PD = D + G$

The above procedure shall be repeated for each of the frequency channels.

Where the spectrum analyser bandwidth is non-Gaussian, a suitable correction factor shall be determined and applied.

### Test Data

**Test Result:** Compliant. The details please refer to the Appendix.

## 5 - RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY

### Limit

- $\leq 4\text{nW}$  ( $30\text{ MHz} \leq f \leq 1000\text{ MHz}$ )
- $\leq 20\text{ nW}$  ( $1\text{ GHz} \leq f \leq 12.5\text{ GHz}$ )

### Test Procedure

- ❖ Conditions of Application Equipment (EUT)
  - The modulation state shall be “continuous receiving mode”.
- ❖ Spectrum Analyzer Conditions
  - Start Frequency: Start Frequency of frequency range to measure (30MHz to 1GHz)
  - Stop Frequency: Stop Frequency of frequency range to measure (1GHz to 12.5GHz)
  - Span: AUTO (Measurement Range)
  - RBW: 100 kHz, VBW: 100 kHz for Frequency < 1 GHz
  - RBW: 1MHz, VBW: 1MHz for Frequency > 1 GHz
  - Sweep time: AUTO or more
  - Sweep mode: Auto Sweep
  - Detection: Positive Peak
  - Reference Level: Enough level for maximum dynamic range

### Test Data

**Test Result:** Compliant. The details please refer to the Appendix.

## 12 - INTERFERENCE PREVENTION FUNCTION

### Requirement

#### Article 6-2.3 of Regulations for Enforcement of the radio law

A wireless device used mainly in the same premises to automatically transmit or receive identification codes.

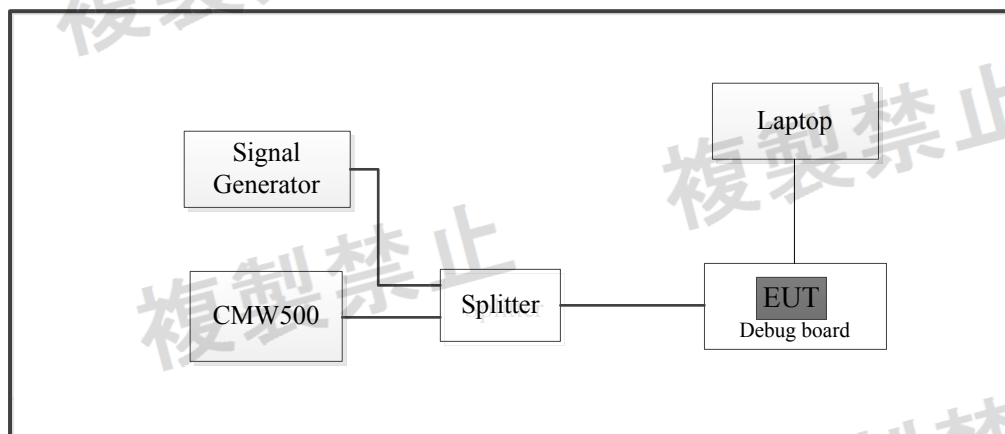
#### Article 1.8 of MPT Ministerial Notice No. 424 of 1994 (the last revision: Notice No. 374 of Nov. 10, 2023)

48 bits or more. However, for radio of the following frequencies, the requirement is 19 bits or more:

- (1), 5150-5250MHz; 5470-5730MHz; 5925-6425MHz;
- (2), 24.77-25.23GHz;
- (3), 57-66GHz.

### Test Procedure

#### ❖ Measurement System Diagram



- ❖ 1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
- ❖ 2. In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes from the counterpart. d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

Test Data

Test Information:

|             |             |              |              |
|-------------|-------------|--------------|--------------|
| Serial No.: | 2YV8-1      | Test Date:   | 2025/08/06   |
| Test Site:  | RF          | Test Mode:   | Transmitting |
| Tester:     | Cooper Zhou | Test Result: | Pass         |

Environmental Conditions:

|                      |      |                              |    |                        |      |
|----------------------|------|------------------------------|----|------------------------|------|
| Temperature:<br>(°C) | 25.8 | Relative<br>Humidity:<br>(%) | 71 | ATM Pressure:<br>(kPa) | 99.8 |
|----------------------|------|------------------------------|----|------------------------|------|

Test Equipment List and Details:

| Manufacturer  | Description                         | Model        | Serial Number | Calibration Date | Calibration Due Date | Calibration Agency | Calibration Method |
|---------------|-------------------------------------|--------------|---------------|------------------|----------------------|--------------------|--------------------|
| Mini-Circuits | Coaxial Power Splitters & Combiner  | ZFRSC-183-S+ | SF448201614   | 2025/2/25        | 2026/2/24            | BACL(DG)           | D                  |
| R&S           | Wideband Radio Communication Tester | CMW500       | 149216        | 2024/9/5         | 2025/9/4             | BACL Metrology     | C                  |
| All-sun       | Multimeter                          | EM305A       | 8348897       | 2024/8/16        | 2025/8/15            | BACL Metrology     | C                  |
| TDK-Lambda    | DC Power Supply                     | Z+60-14      | F-08-EM038-1  | N/A              | N/A                  | N/A                | N/A                |
| Agilent       | MXG Vector Signal Generator         | N5182B       | MY51350142    | 2024/8/26        | 2025/8/25            | GRGTEST            | C                  |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Note:

- A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).
- B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).
- C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c).

| Item                             | Result            | Requirement     | Verdict   |
|----------------------------------|-------------------|-----------------|-----------|
| Methodology to transmit ID Code: | Automatically     | Automatically   | Compliant |
| Methodology to receive ID Code:  | Automatically     | Automatically   | Compliant |
| Identification Codes (ID Codes): | F0:C2:4C:2F:3C:18 | /               | /         |
| Bits of ID Codes:                | 48 bits           | 48 bits or more | Compliant |

Test Result: Compliant

## 14 - CONSTRUCTION PROTECTION CONFIRMATION

### Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

### Confirmation Result

Compliant, the RF part (Except for antenna) was covered by metal shielding case, it can't be opened easily. Please refer the EUT photo.

## **EXHIBIT A – EUT PHOTOGRAPHS**

Please refer to the attachment 2502Q45186E-RF-EXP EUT External photos and 2502Q45186E-RF-INP EUT Internal photos.

## **EXHIBIT B – TEST SETUP PHOTOGRAPHS**

Please refer to the attachment 2502Q45186E-RF-TSP Test Setup Photos.

APPENDIX - TEST DATA

Frequency Error

Test Information:

|             |             |              |              |
|-------------|-------------|--------------|--------------|
| Serial No.: | 2YV8-1      | Test Date:   | 2025/08/06   |
| Test Site:  | RF          | Test Mode:   | Transmitting |
| Tester:     | Cooper Zhou | Test Result: | Pass         |

Environmental Conditions:

|                      |      |                           |    |                        |      |
|----------------------|------|---------------------------|----|------------------------|------|
| Temperature:<br>(°C) | 25.8 | Relative Humidity:<br>(%) | 71 | ATM Pressure:<br>(kPa) | 99.8 |
|----------------------|------|---------------------------|----|------------------------|------|

Test Equipment List and Details:

| Manufacturer  | Description        | Model     | Serial Number | Calibration Date | Calibration Due Date | Calibration Agency | Calibration Method |
|---------------|--------------------|-----------|---------------|------------------|----------------------|--------------------|--------------------|
| All-sun       | Multimeter         | EM305A    | 8348897       | 2024/08/16       | 2025/08/15           | BACL Metrology     | C                  |
| R&S           | Spectrum Analyzer  | FSV40     | 101589        | 2024/09/05       | 2025/09/04           | BACL Metrology     | C                  |
| Mini-Circuits | Coaxial DC Block   | BLK-18-S+ | 15542         | 2025/02/28       | 2026/02/27           | BACL(DG)           | D                  |
| R&S           | Coaxial Attenuator | 10dB      | F-08-EM512    | 2025/06/13       | 2026/06/12           | BACL(DG)           | D                  |
| TDK-Lambda    | DC Power Supply    | Z+60-14   | F-08-EM038-1  | N/A              | N/A                  | N/A                | N/A                |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Note:

- A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).
- B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).
- C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c).

Test Condition: NV

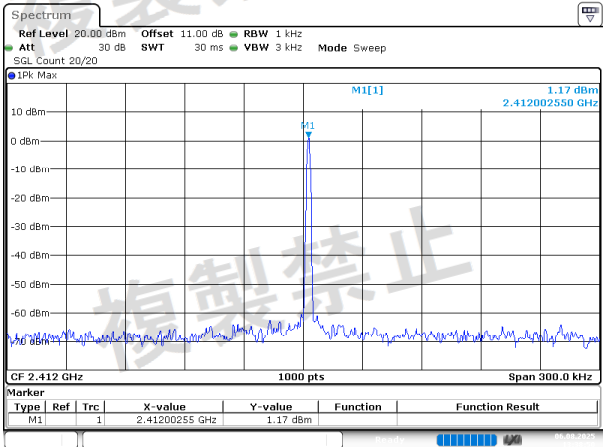
| Mode           | Frequency (MHz) | Measure Frequency(MHz) | Frequency Tolerance(ppm) | Limit (ppm) | Verdict |
|----------------|-----------------|------------------------|--------------------------|-------------|---------|
| Single Carrier | 2412            | 2412.00255             | 1.06                     | ± 50        | Pass    |
|                | 2442            | 2442.00285             | 1.17                     | ± 50        | Pass    |
|                | 2472            | 2472.00285             | 1.15                     | ± 50        | Pass    |

Note:

Frequency Tolerance = (Measure Frequency - Frequency)/Frequency\*10^6

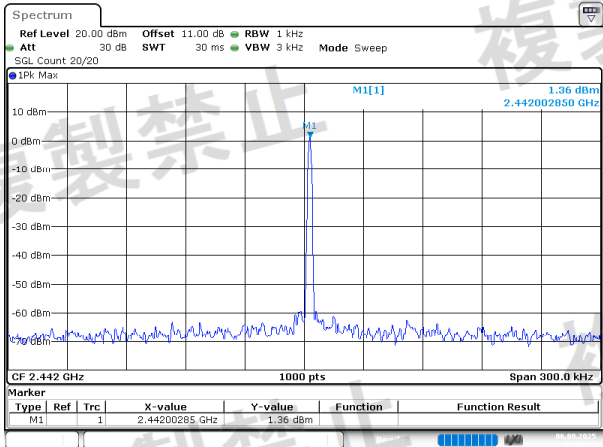
Test Condition: NV

2412MHz



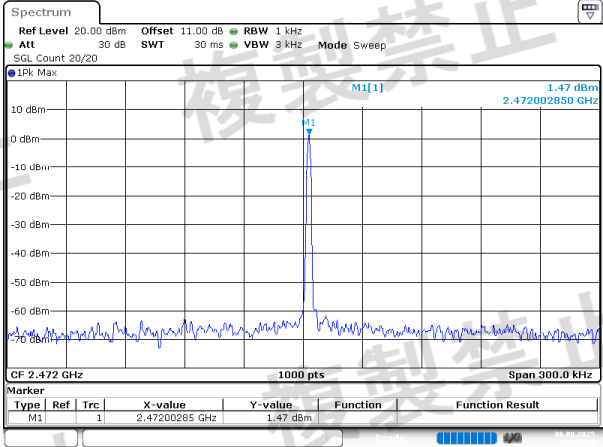
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 13:38:51

2442MHz



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 13:39:14

2472MHz



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 13:39:35

Occupied Bandwidth and Spreading Bandwidth

Test Information:

|             |             |              |                       |
|-------------|-------------|--------------|-----------------------|
| Serial No.: | 2YV8-1      | Test Date:   | 2025/08/05~2025/08/06 |
| Test Site:  | RF          | Test Mode:   | Transmitting          |
| Tester:     | Cooper Zhou | Test Result: | Pass                  |

Environmental Conditions:

|                      |           |                           |       |                        |           |
|----------------------|-----------|---------------------------|-------|------------------------|-----------|
| Temperature:<br>(°C) | 25.8~25.9 | Relative Humidity:<br>(%) | 70~71 | ATM Pressure:<br>(kPa) | 99.6~99.8 |
|----------------------|-----------|---------------------------|-------|------------------------|-----------|

Test Equipment List and Details:

| Manufacturer  | Description        | Model     | Serial Number | Calibration Date | Calibration Due Date | Calibration Agency | Calibration Method |
|---------------|--------------------|-----------|---------------|------------------|----------------------|--------------------|--------------------|
| All-sun       | Multimeter         | EM305A    | 8348897       | 2024/08/16       | 2025/08/15           | BACL Metrology     | C                  |
| R&S           | Spectrum Analyzer  | FSV40     | 101589        | 2024/09/05       | 2025/09/04           | BACL Metrology     | C                  |
| Mini-Circuits | Coaxial DC Block   | BLK-18-S+ | 15542         | 2025/02/28       | 2026/02/27           | BACL(DG)           | D                  |
| R&S           | Coaxial Attenuator | 10dB      | F-08-EM512    | 2025/06/13       | 2026/06/12           | BACL(DG)           | D                  |
| TDK-Lambda    | DC Power Supply    | Z+60-14   | F-08-EM038-1  | N/A              | N/A                  | N/A                | N/A                |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Note:

- A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).
- B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).
- C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c).

**Test Condition: NV**

| Mode       | Occupied bandwidth (MHz) |                |              | Limit(MHz) | Verdict |
|------------|--------------------------|----------------|--------------|------------|---------|
|            | Low Channel              | Middle Channel | High Channel |            |         |
| 802.11b    | 17.20                    | 15.60          | 13.64        | $\leq 26$  | Pass    |
| 802.11g    | 23.00                    | 25.32          | 21.45        | $\leq 26$  | Pass    |
| 802.11n20  | 22.05                    | 24.84          | 22.35        | $\leq 26$  | Pass    |
| 802.11ax20 | 21.80                    | 25.08          | 22.30        | $\leq 26$  | Pass    |

**Spreading bandwidth and Spreading Factor for 802.11b(DSSS)**

| Test Items                | Low Channel | Middle Channel | High Channel | Limit      | Verdict |
|---------------------------|-------------|----------------|--------------|------------|---------|
| Spreading bandwidth (MHz) | 11.8        | 8.4            | 7.28         | $\geq 0.5$ | Pass    |
| Spreading Factor          | 8.58        | 6.11           | 5.29         | $\geq 5$   | Pass    |

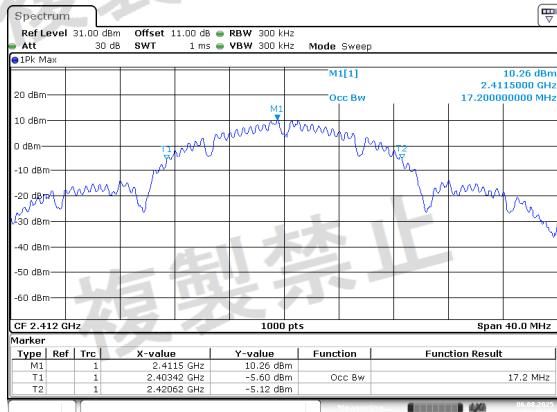
Note1: Spread factor = spread bandwidth/modulation rate

Note2: Modulation rate: 802.11b = 1.375

## Test Condition: NV

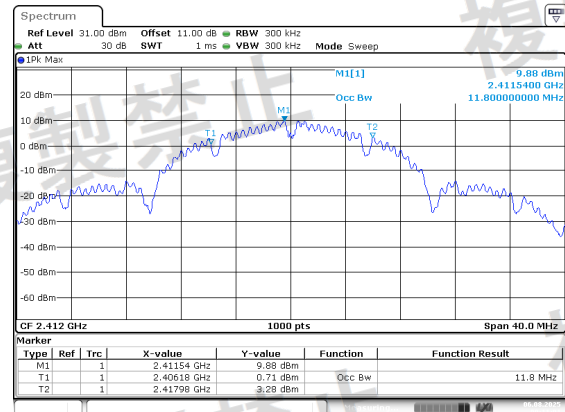
## 802.11b, Low Channel

## Occupied Bandwidth



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 09:10:50

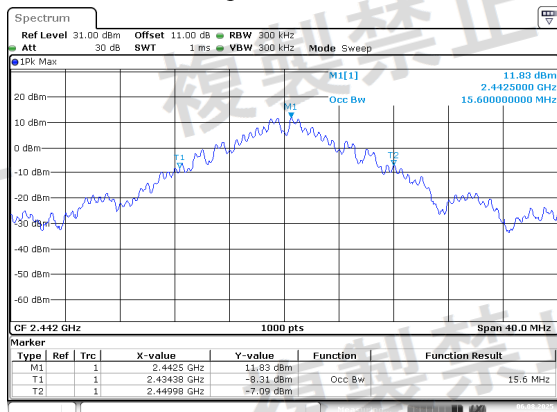
## Spreading Bandwidth



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 09:11:01

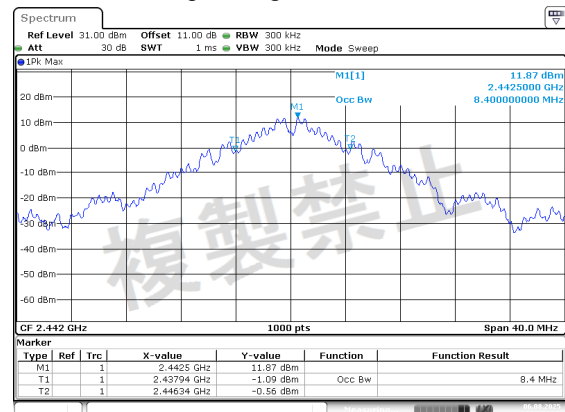
## 802.11b, Middle Channel

## Occupied Bandwidth



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 08:54:33

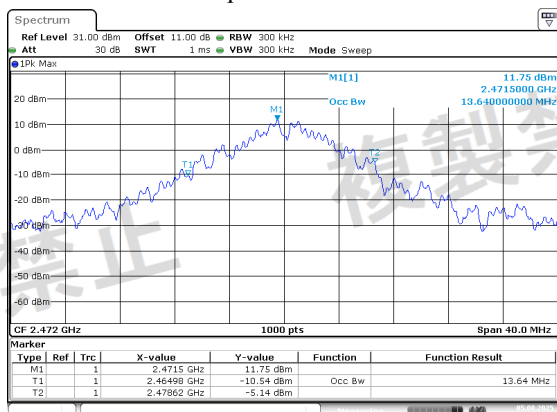
## Spreading Bandwidth



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 08:54:47

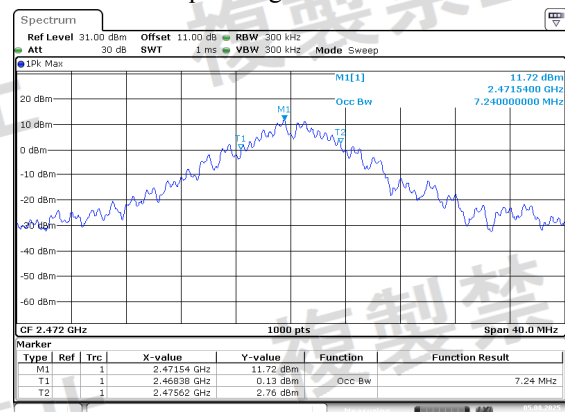
## 802.11b, High Channel

## Occupied Bandwidth



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 5.AUG.2025 17:06:09

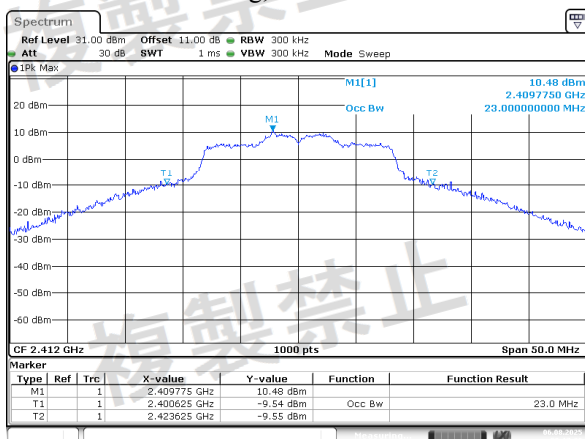
## Spreading Bandwidth



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 5.AUG.2025 17:06:24

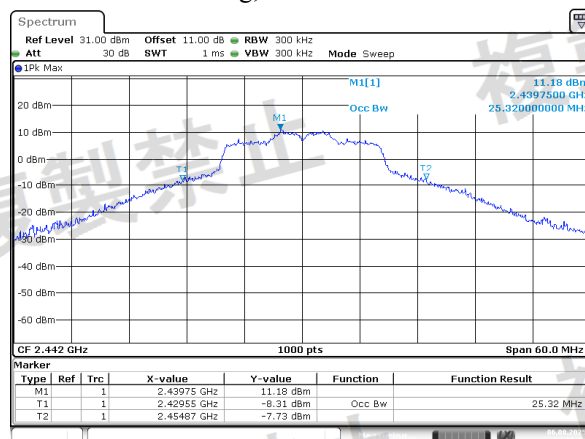
## Occupied Bandwidth

## 802.11g, Low Channel



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 09:17:31

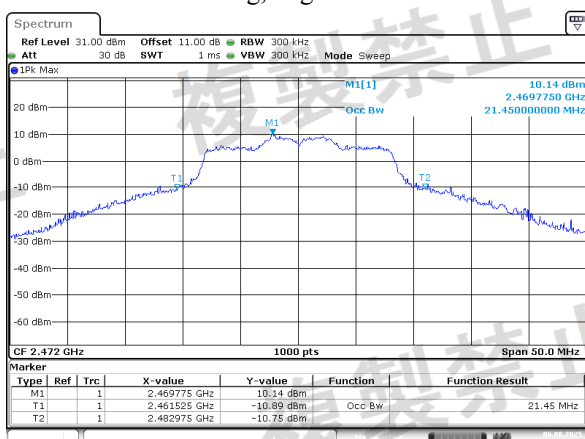
## 802.11g, Middle Channel



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 09:20:26

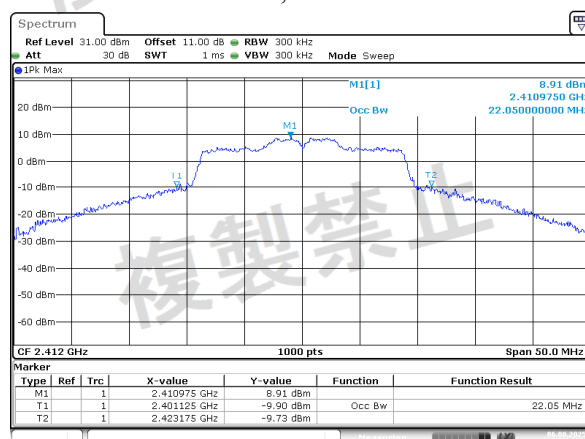
## Occupied Bandwidth

## 802.11g, High Channel



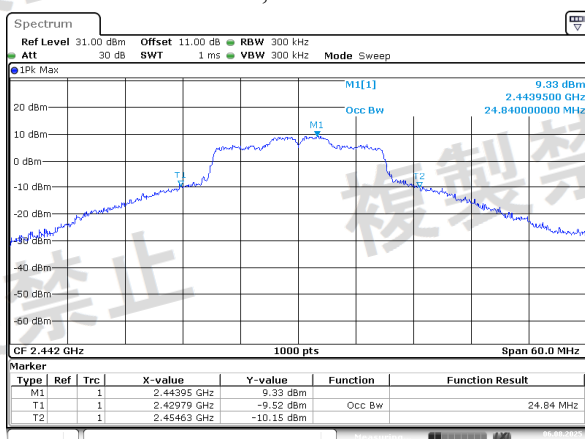
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 09:22:29

## 802.11n20, Low Channel



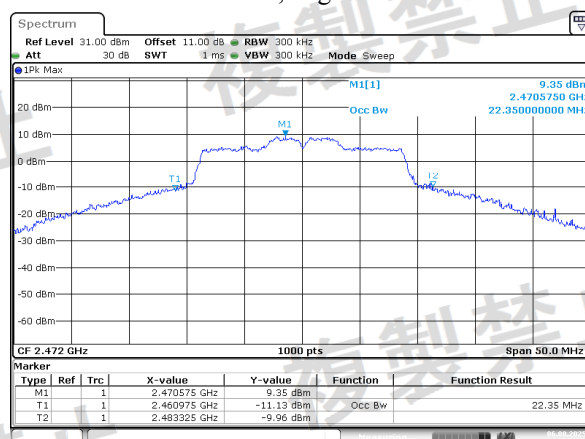
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 10:32:09

## 802.11n20, Middle Channel



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 10:33:27

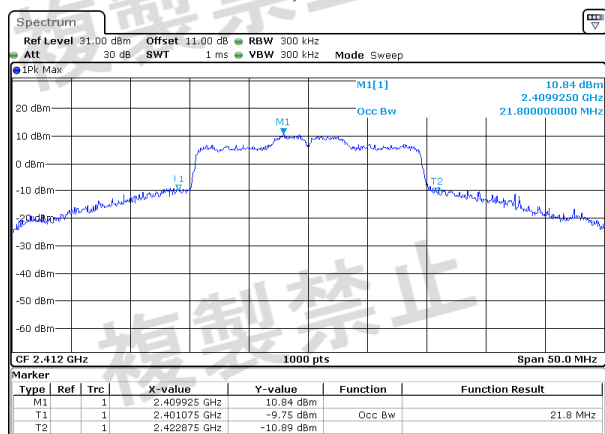
## 802.11n20, High Channel



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 10:36:17

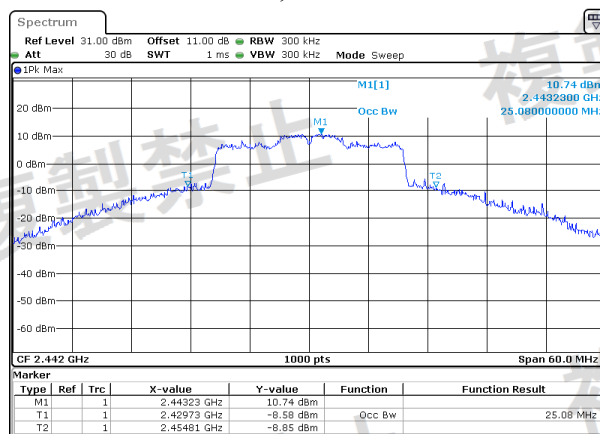
## Occupied Bandwidth

802.11ax20, Low Channel



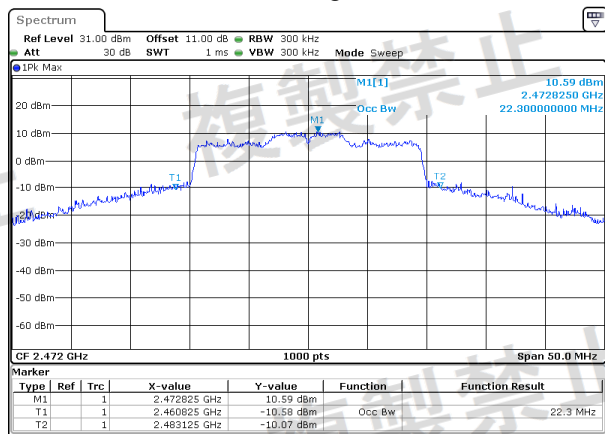
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 11:04:17

802.11ax20, Middle Channel



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 11:05:35

802.11ax20, High Channel



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 11:07:20

Note: Offset = Coaxial Attenuator (10dB) + Cable Loss (1dB)

Transmitter Spurious Emission Strength

Test Information:

|             |             |              |                       |
|-------------|-------------|--------------|-----------------------|
| Serial No.: | 2YV8-1      | Test Date:   | 2025/08/05~2025/08/25 |
| Test Site:  | RF          | Test Mode:   | Transmitting          |
| Tester:     | Cooper Zhou | Test Result: | Pass                  |

Environmental Conditions:

|                      |           |                           |       |                        |            |
|----------------------|-----------|---------------------------|-------|------------------------|------------|
| Temperature:<br>(°C) | 25.8~27.6 | Relative Humidity:<br>(%) | 69~71 | ATM Pressure:<br>(kPa) | 99.8~100.4 |
|----------------------|-----------|---------------------------|-------|------------------------|------------|

Test Equipment List and Details:

| Manufacturer  | Description        | Model         | Serial Number | Calibration Date | Calibration Due Date | Calibration Agency | Calibration Method |
|---------------|--------------------|---------------|---------------|------------------|----------------------|--------------------|--------------------|
| All-sun       | Multimeter         | EM305A        | 8348897       | 2024/08/16       | 2025/08/15           | BACL Metrology     | C                  |
| R&S           | Spectrum Analyzer  | FSV40         | 101589        | 2024/09/05       | 2025/09/04           | BACL Metrology     | C                  |
| Mini-Circuits | Coaxial DC Block   | BLK-18-S+     | 15542         | 2025/02/28       | 2026/02/27           | BACL(DG)           | D                  |
| HUBER+SUHNER  | Coaxial Attenuator | 6610_SMA-50-1 | 0064          | 2025/06/13       | 2026/06/12           | BACL(DG)           | D                  |
| All-sun       | Multimeter         | EM305A        | 8348897       | 2025/08/15       | 2026/08/14           | BACL Metrology     | C                  |
| TDK-Lambda    | DC Power Supply    | Z+60-14       | F-08-EM038-1  | N/A              | N/A                  | N/A                | N/A                |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Note:

- A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).
- B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).
- C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c).

**Test Condition: NV****Chain 0, 802.11b**

| Channel | Test Band (RBW) | Frequency Range |            | Max.Emission Located(MHz) | Result (dBm/RBW) | Result (μW/RBW) | Limit (μW/RBW) | Verdict |
|---------|-----------------|-----------------|------------|---------------------------|------------------|-----------------|----------------|---------|
|         |                 | Start (MHz)     | Stop (MHz) |                           |                  |                 |                |         |
| Low     | Band I (100kHz) | 30              | 1000       | 802.85                    | -46.06           | 0.025           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 1608.55                   | -30.82           | 0.828           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2399.1583                 | -17.69           | 17.037          | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2490.1918                 | -33.11           | 0.489           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 2714.1                    | -30.13           | 0.971           | 2.50           | Pass    |
| Middle  | Band I (100kHz) | 30              | 1000       | 814.49                    | -44.68           | 0.034           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 1627.96                   | -26.59           | 2.193           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2398.5148                 | -32.59           | 0.551           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2485.8238                 | -30.74           | 0.843           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 2749.1                    | -32.82           | 0.522           | 2.50           | Pass    |
| High    | Band I (100kHz) | 30              | 1000       | 823.22                    | -39.63           | 0.109           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2163.35                   | -27.45           | 1.799           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2392.1513                 | -34.84           | 0.328           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2483.5098                 | -19.76           | 10.580          | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 2779.1                    | -30.51           | 0.889           | 2.50           | Pass    |

**Chain 0, 802.11g**

| Channel | Test Band (RBW) | Frequency Range |            | Max.Emission Located(MHz) | Result (dBm/RBW) | Result (μW/RBW) | Limit (μW/RBW) | Verdict |
|---------|-----------------|-----------------|------------|---------------------------|------------------|-----------------|----------------|---------|
|         |                 | Start (MHz)     | Stop (MHz) |                           |                  |                 |                |         |
| Low     | Band I (100kHz) | 30              | 1000       | 765.5                     | -47.53           | 0.018           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2112.03                   | -26.72           | 2.128           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2399.0218                 | -17.72           | 16.908          | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2484.4068                 | -33.23           | 0.475           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 2709.1                    | -33.62           | 0.435           | 2.50           | Pass    |
| Middle  | Band I (100kHz) | 30              | 1000       | 815.46                    | -47.47           | 0.018           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2137.69                   | -31.52           | 0.705           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2399.0738                 | -29.25           | 1.189           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2484.0558                 | -25.27           | 2.972           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 2749.1                    | -29.24           | 1.191           | 2.50           | Pass    |
| High    | Band I (100kHz) | 30              | 1000       | 821.76                    | -46.65           | 0.022           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2163.35                   | -28.71           | 1.346           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2393.4253                 | -34.67           | 0.341           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2484.3613                 | -18.33           | 14.686          | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 2779.1                    | -32.17           | 0.607           | 2.50           | Pass    |

**Chain 0, 802.11n20**

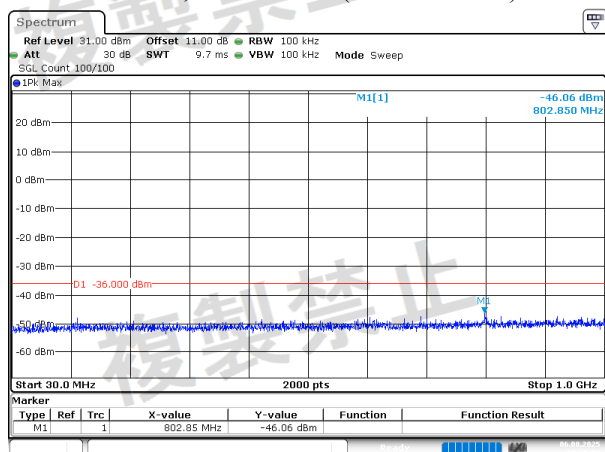
| Channel | Test Band (RBW) | Frequency Range |            | Max.Emission Located(MHz) | Result (dBm/RBW) | Result (μW/RBW) | Limit (μW/RBW) | Verdict |
|---------|-----------------|-----------------|------------|---------------------------|------------------|-----------------|----------------|---------|
|         |                 | Start (MHz)     | Stop (MHz) |                           |                  |                 |                |         |
| Low     | Band I (100kHz) | 30              | 1000       | 822.25                    | -47.35           | 0.018           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2110.64                   | -32.35           | 0.582           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2399.6913                 | -18.55           | 13.977          | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2488.5018                 | -33.19           | 0.480           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 2714.1                    | -31.22           | 0.755           | 2.50           | Pass    |
| Middle  | Band I (100kHz) | 30              | 1000       | 822.25                    | -47.23           | 0.019           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2137.69                   | -30.85           | 0.822           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2399.8993                 | -29.86           | 1.033           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2484.1013                 | -24.22           | 3.784           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 2749.1                    | -29.69           | 1.074           | 2.50           | Pass    |
| High    | Band I (100kHz) | 30              | 1000       | 819.82                    | -46.96           | 0.020           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2163.35                   | -28.78           | 1.325           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2394.6343                 | -34.43           | 0.361           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2484.4718                 | -19.03           | 12.503          | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 2779.1                    | -32.65           | 0.543           | 2.50           | Pass    |

**Chain 0, 802.11ax20**

| Channel | Test Band (RBW) | Frequency Range |            | Max.Emission Located(MHz) | Result (dBm/RBW) | Result (μW/RBW) | Limit (μW/RBW) | Verdict |
|---------|-----------------|-----------------|------------|---------------------------|------------------|-----------------|----------------|---------|
|         |                 | Start (MHz)     | Stop (MHz) |                           |                  |                 |                |         |
| Low     | Band I (100kHz) | 30              | 1000       | 741.74                    | -47.34           | 0.018           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2385.27                   | -38.11           | 0.155           | 2.50           | Pass    |
|         |                 |                 |            | 2109.95                   | -33.71           | 0.426           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2398.7488                 | -19.64           | 10.869          | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2491.1343                 | -32.38           | 0.578           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 2714.1                    | -31.49           | 0.710           | 2.50           | Pass    |
| Middle  | Band I (100kHz) | 30              | 1000       | 931.37                    | -47.45           | 0.018           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2136.99                   | -28.86           | 1.299           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2399.6263                 | -27.27           | 1.875           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2484.0948                 | -23.89           | 4.083           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 2744.1                    | -31.16           | 0.765           | 2.50           | Pass    |
| High    | Band I (100kHz) | 30              | 1000       | 927.01                    | -46.34           | 0.023           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2162.65                   | -29.09           | 1.233           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2391.2803                 | -35.15           | 0.305           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2483.8218                 | -17.88           | 16.293          | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 2779.1                    | -32.77           | 0.528           | 2.50           | Pass    |

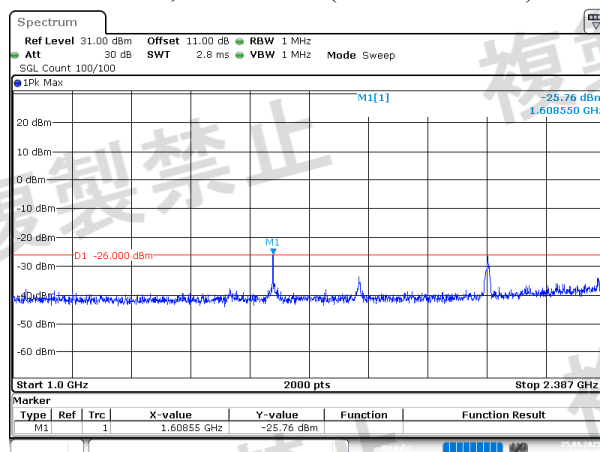
## Test Condition: NV

## 802.11b, Low Channel(30MHz~1GHz)



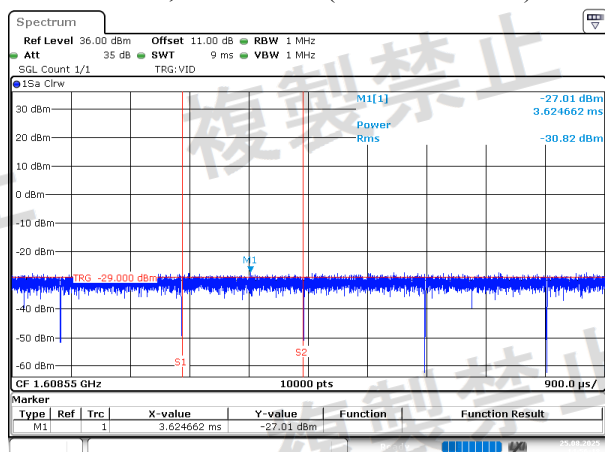
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 09:05:04

## 802.11b, Low Channel(1GHz~2.387GHz)



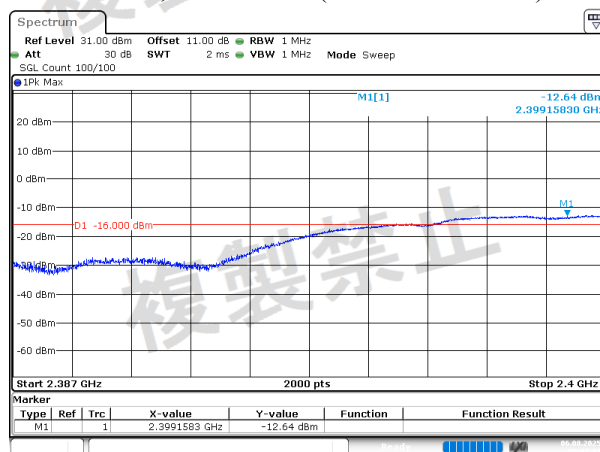
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 14:55:21

## 802.11b, Low Channel(1GHz~2.387GHz)



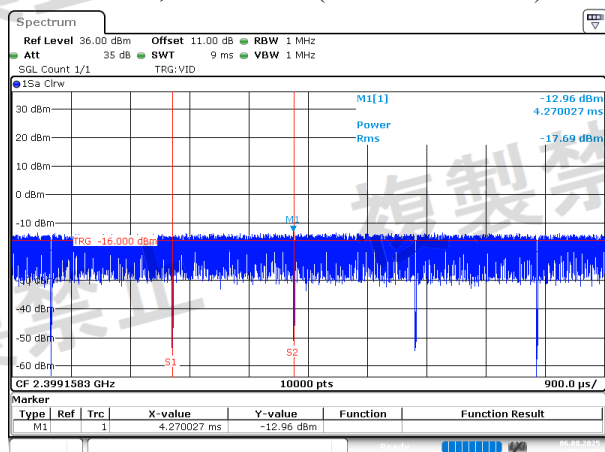
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 14:56:18

## 802.11b, Low Channel(2.387GHz~2.4GHz)



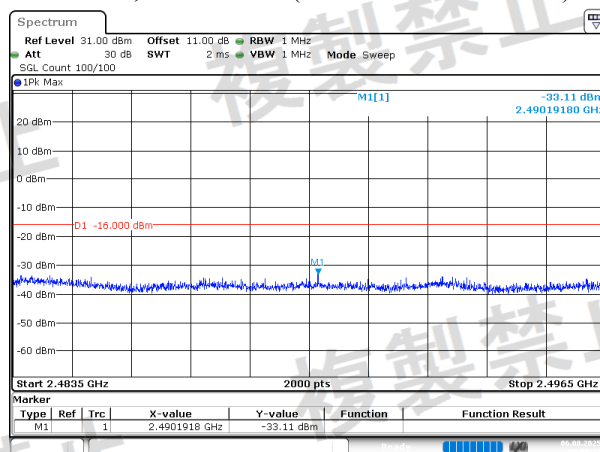
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 09:07:12

## 802.11b, Low Channel(2.387GHz~2.4GHz)



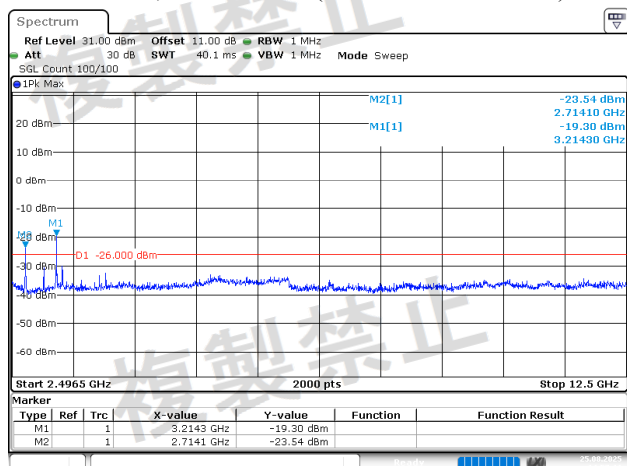
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 09:08:09

## 802.11b, Low Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 09:08:17

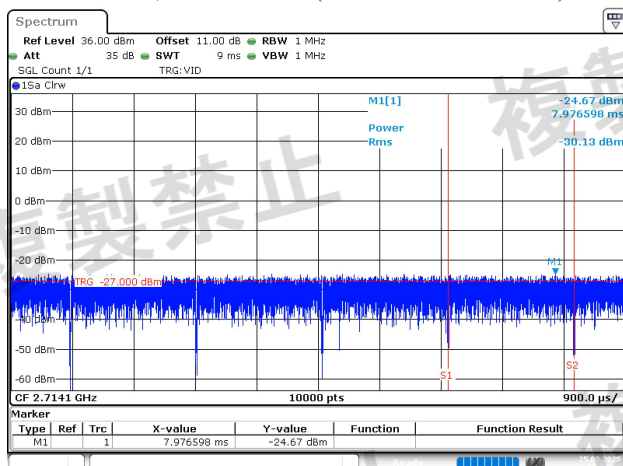
## 802.11b, Low Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 14:57:11

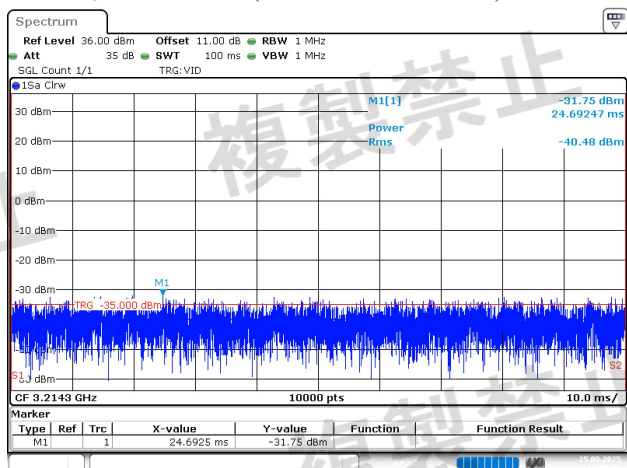
## 802.11b, Low Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:12:45

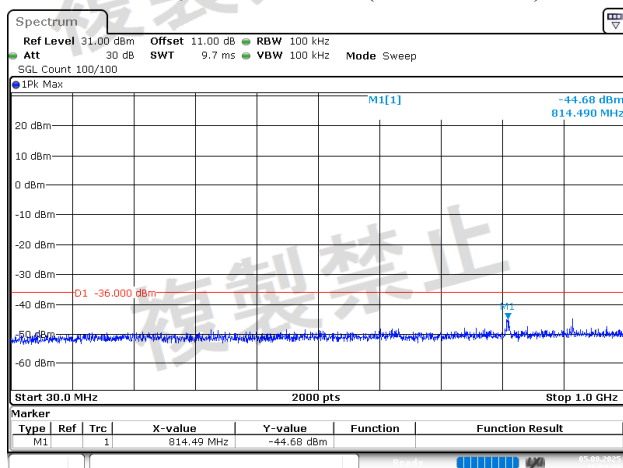
## 802.11b, Low Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:07:01

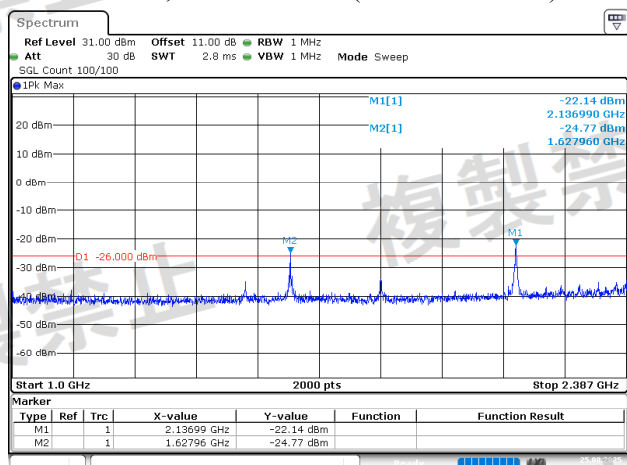
## 802.11b, Middle Channel(30MHz~1GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 5.AUG.2025 16:53:39

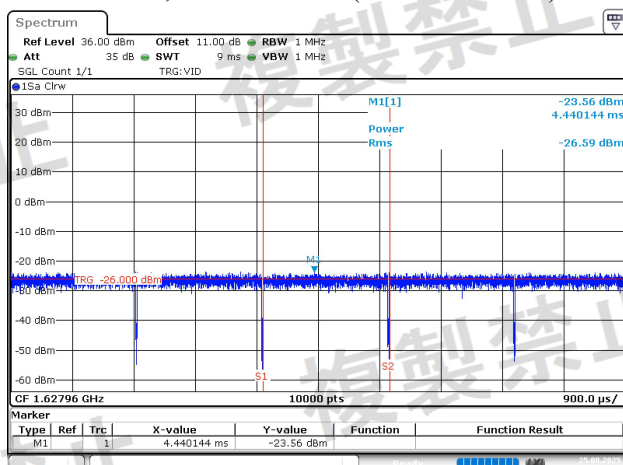
## 802.11b, Middle Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:22:51

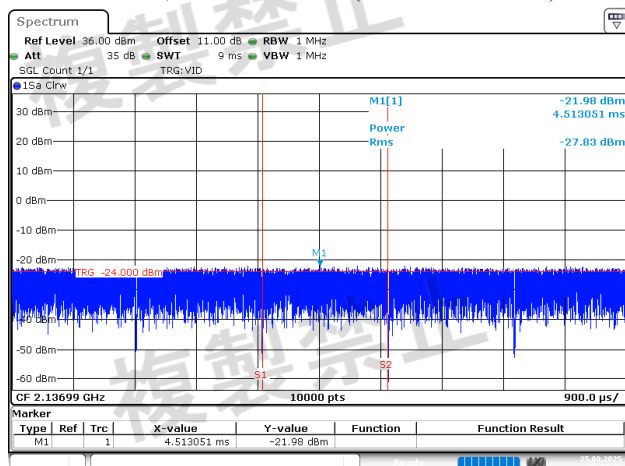
## 802.11b, Middle Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:25:49

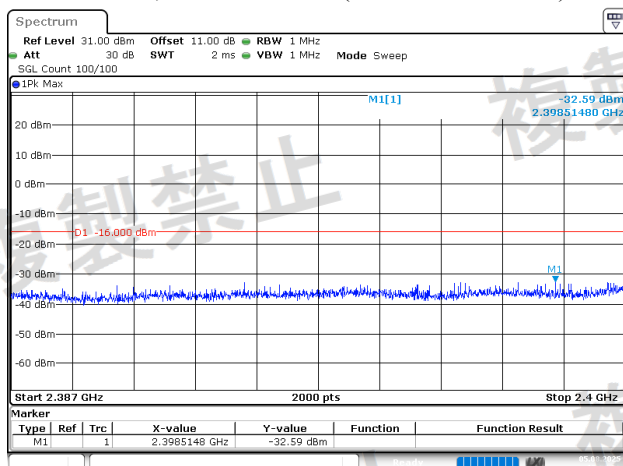
## 802.11b, Middle Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:23:46

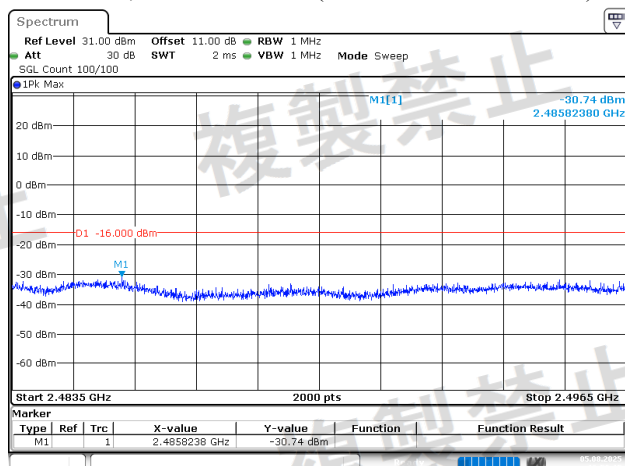
## 802.11b, Middle Channel(2.387GHz~2.4GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 5.AUG.2025 16:59:06

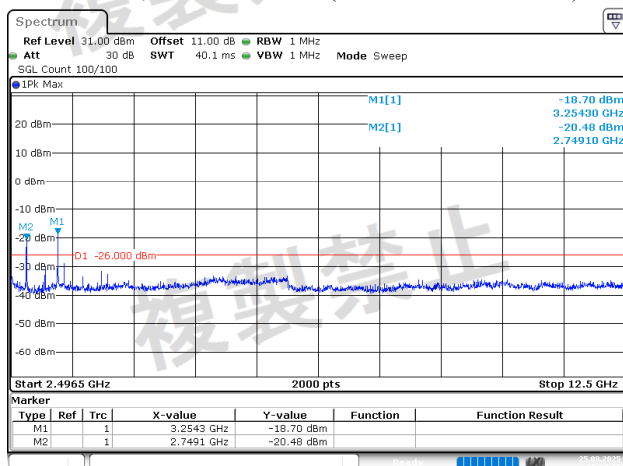
## 802.11b, Middle Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 5.AUG.2025 16:59:15

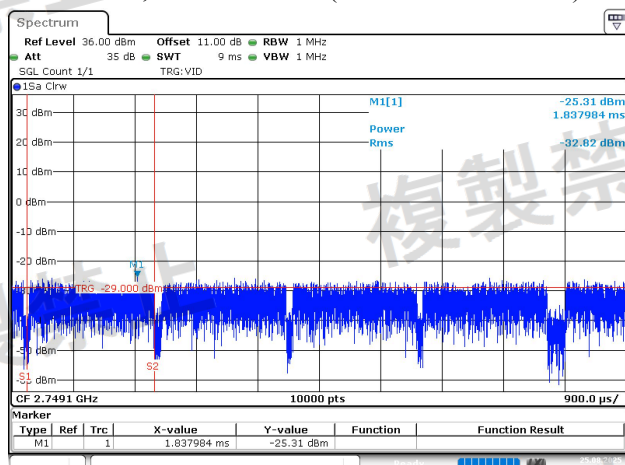
## 802.11b, Middle Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:27:06

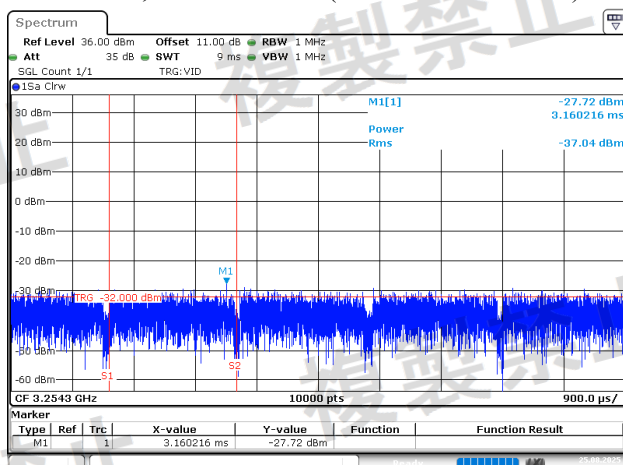
## 802.11b, Middle Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:30:09

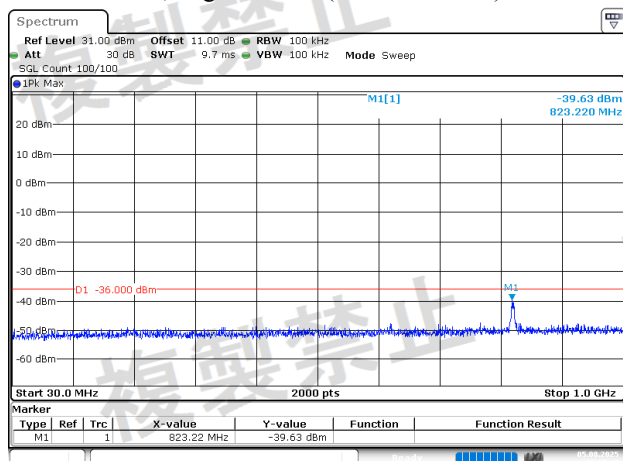
## 802.11b, Middle Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

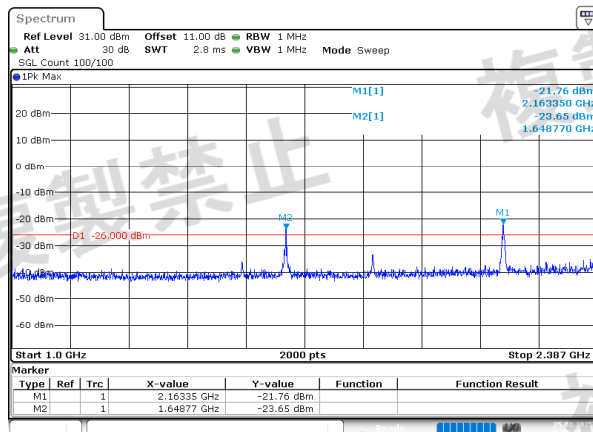
Date: 25.AUG.2025 15:28:29

## 802.11b, High Channel(30MHz~1GHz)



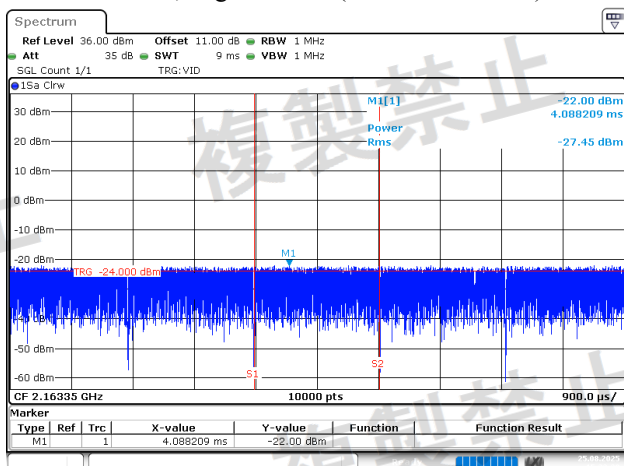
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 5.AUG.2025 17:07:18

## 802.11b, High Channel(1GHz~2.387GHz)



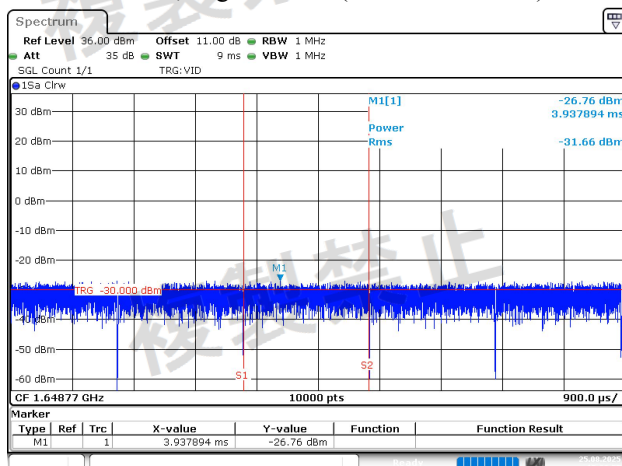
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 15:31:35

## 802.11b, High Channel(1GHz~2.387GHz)



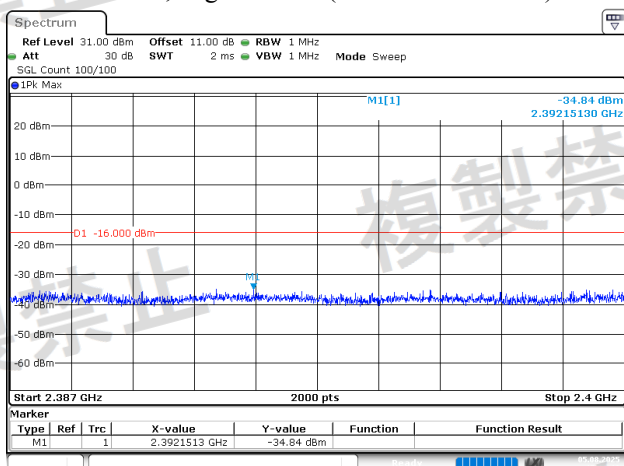
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 15:32:39

## 802.11b, High Channel(1GHz~2.387GHz)



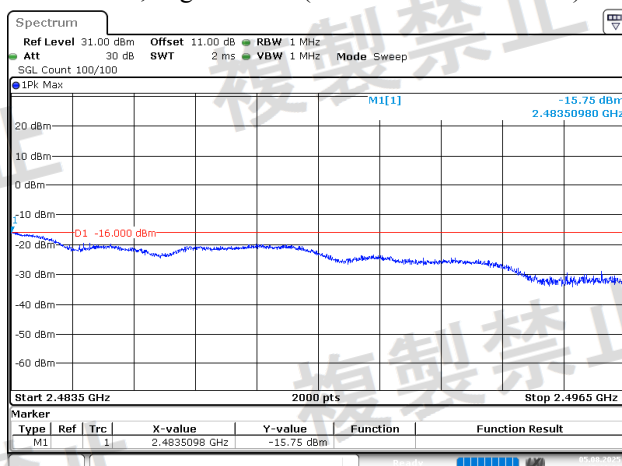
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 15:33:56

## 802.11b, High Channel(2.387GHz~2.4GHz)



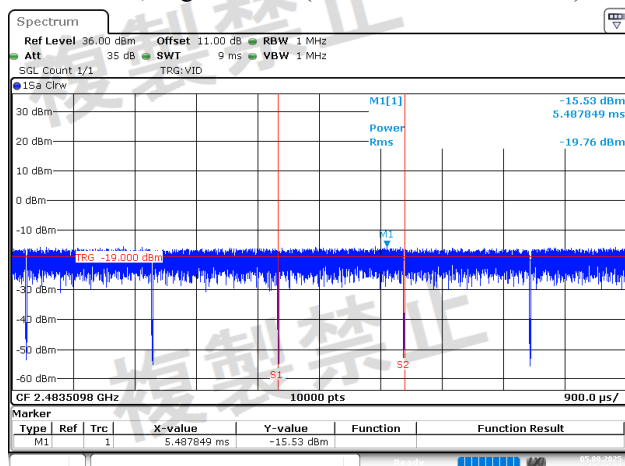
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 5.AUG.2025 17:10:14

## 802.11b, High Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 5.AUG.2025 17:10:24

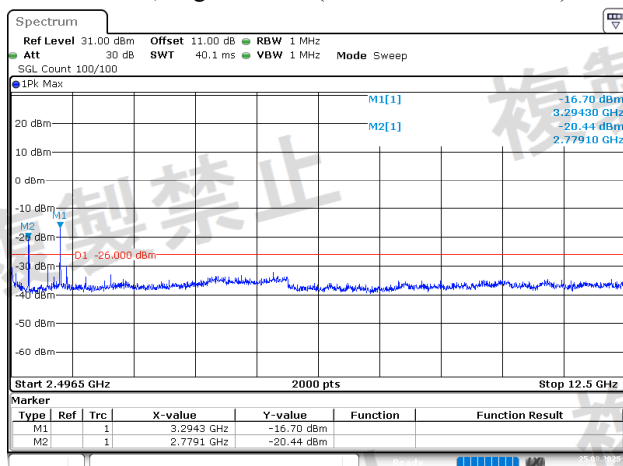
## 802.11b, High Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 5.AUG.2025 17:11:23

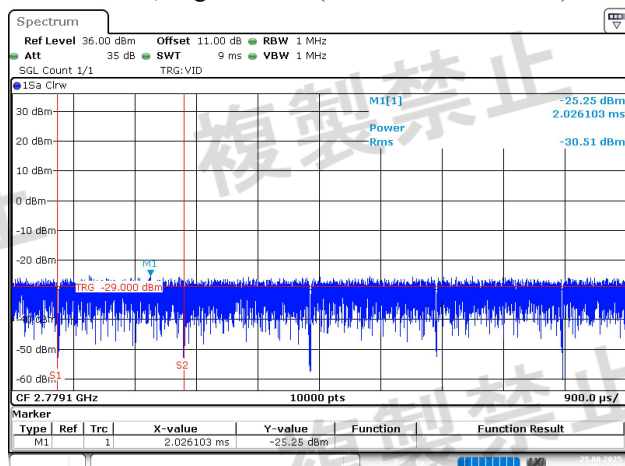
## 802.11b, High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:35:19

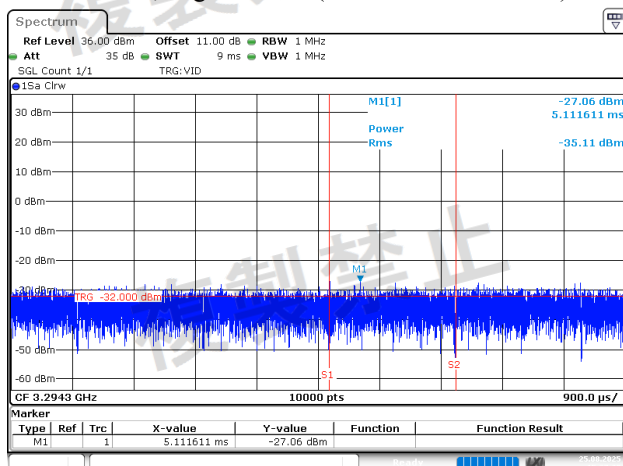
## 802.11b, High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:38:30

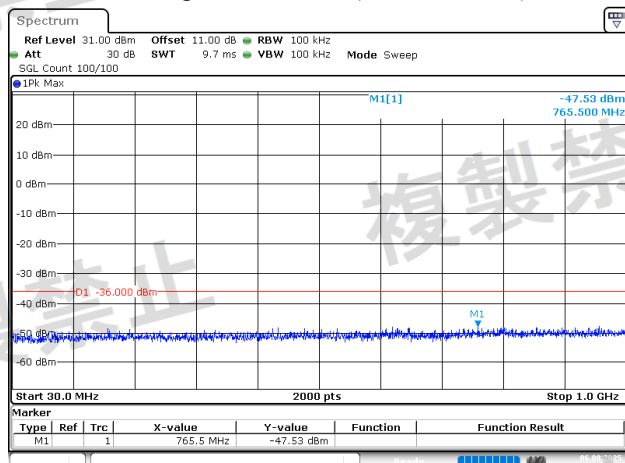
## 802.11b, High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:37:29

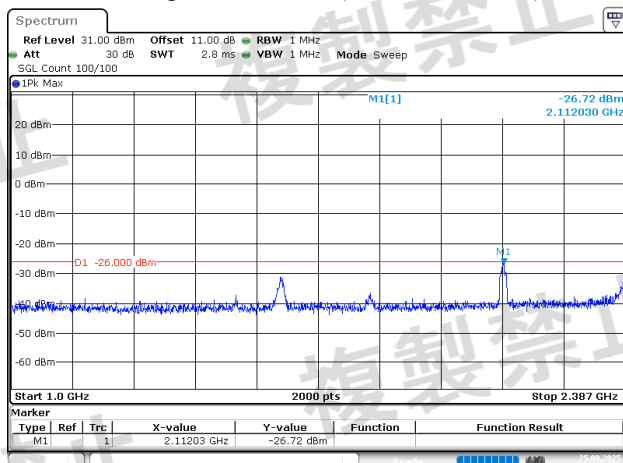
## 802.11g, Low Channel(30MHz~1GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 09:23:25

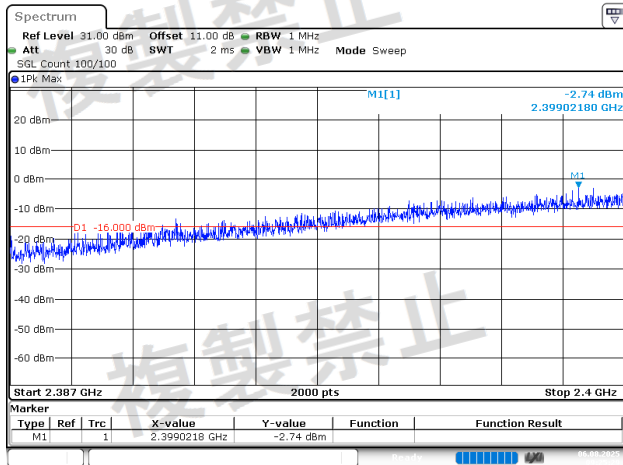
## 802.11g, Low Channel(1GHz~2.387GHz)



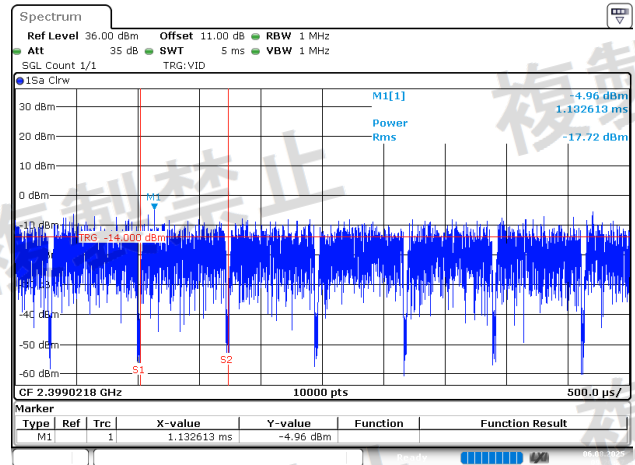
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:40:06

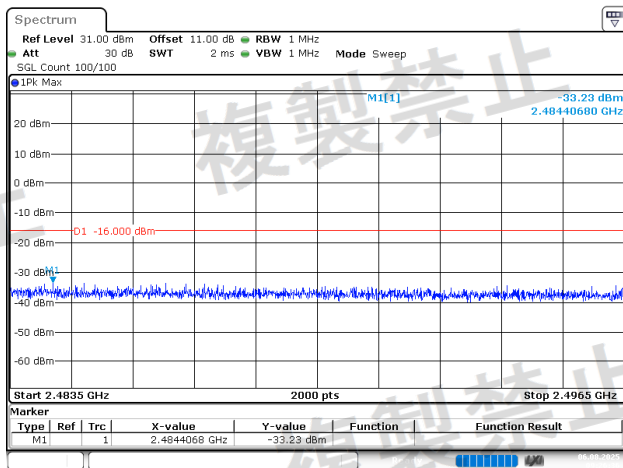
## 802.11g, Low Channel(2.387GHz~2.4GHz)

ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 09:25:30

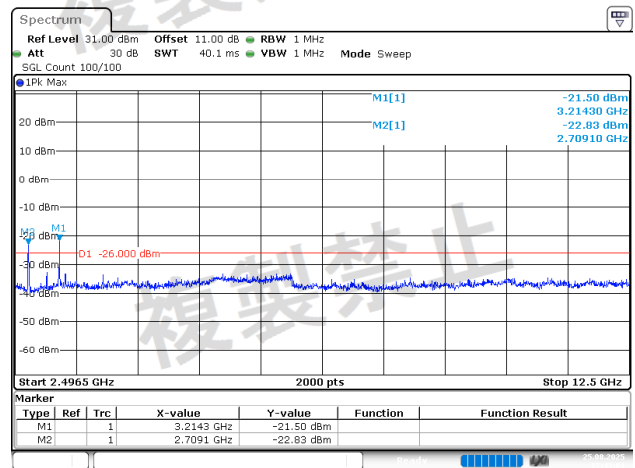
## 802.11g, Low Channel(2.387GHz~2.4GHz)

ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 09:26:27

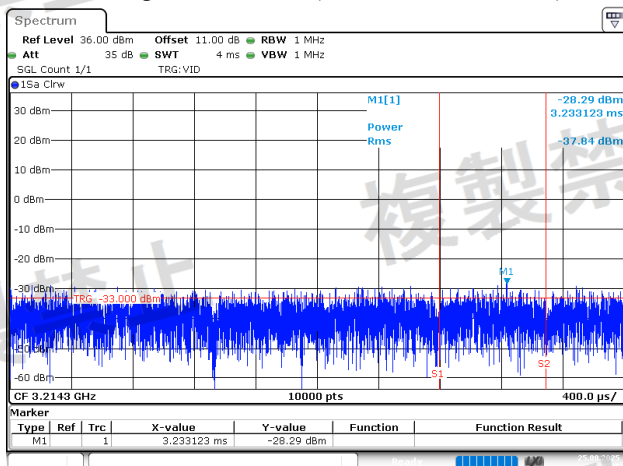
## 802.11g, Low Channel(2.4835GHz~2.4965GHz)

ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 09:26:37

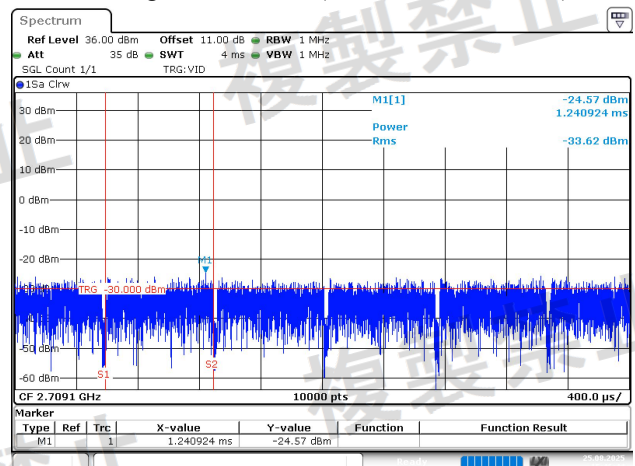
## 802.11g, Low Channel(2.4965GHz~12.5GHz)

ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 15:43:01

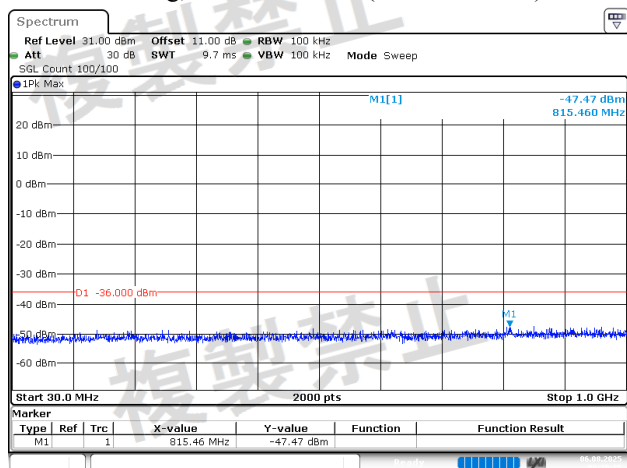
## 802.11g, Low Channel(2.4965GHz~12.5GHz)

ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 15:45:16

## 802.11g, Low Channel(2.4965GHz~12.5GHz)

ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 15:46:44

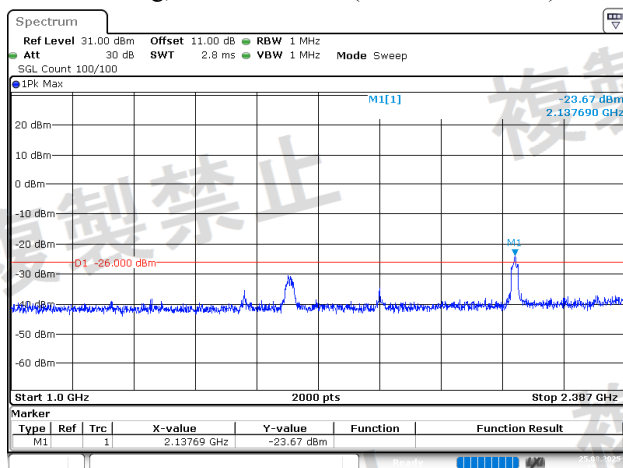
## 802.11g, Middle Channel(30MHz~1GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 09:29:35

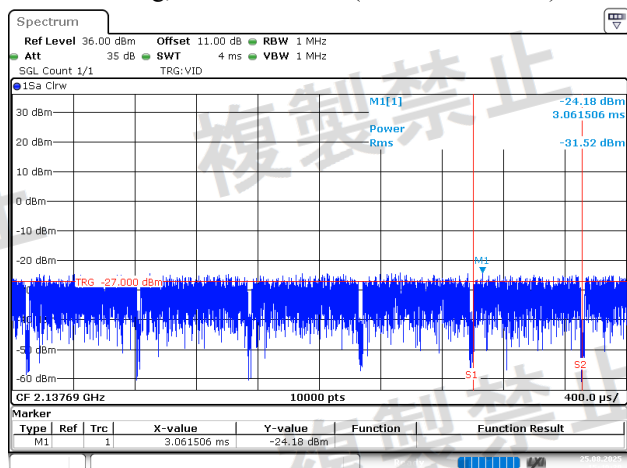
## 802.11g, Middle Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:46:50

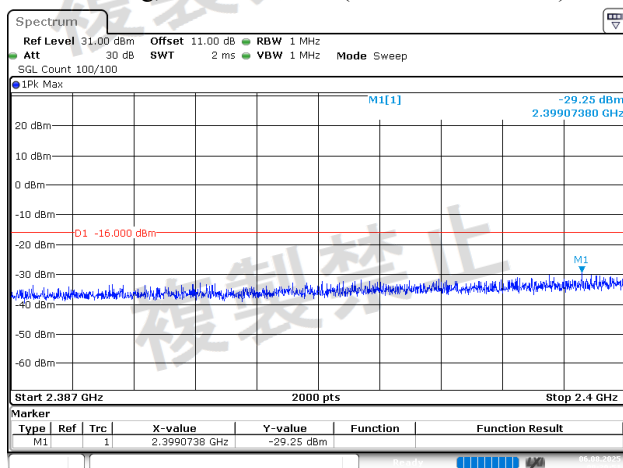
## 802.11g, Middle Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:49:40

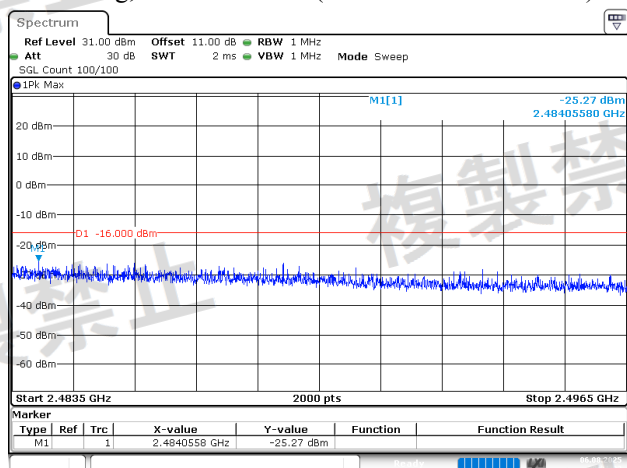
## 802.11g, Middle Channel(2.387GHz~2.4GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 09:30:52

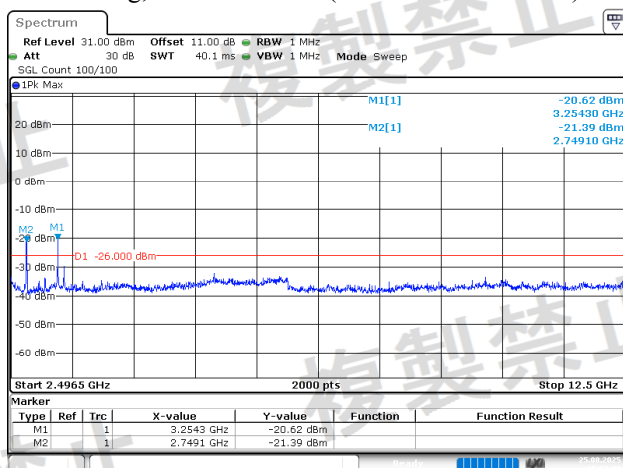
## 802.11g, Middle Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 09:31:02

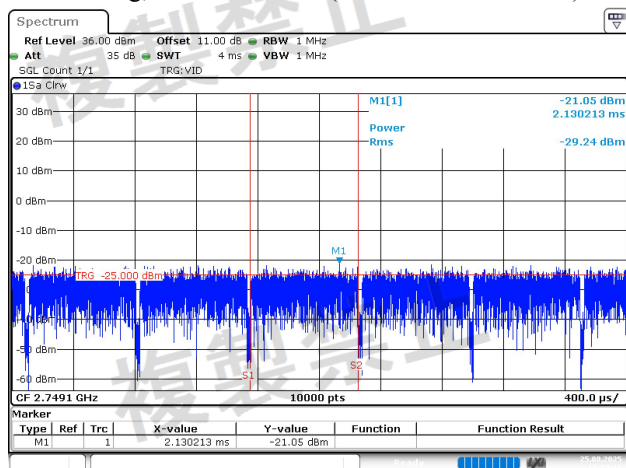
## 802.11g, Middle Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:51:01

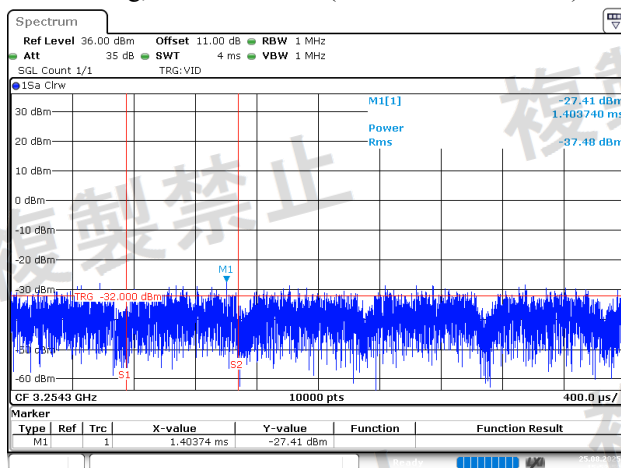
## 802.11g, Middle Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:54:19

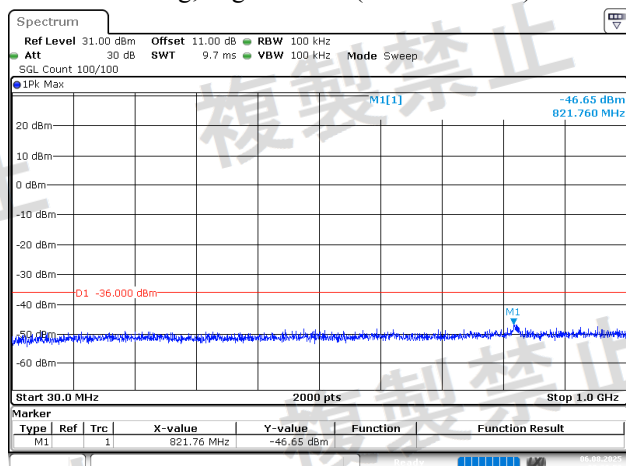
## 802.11g, Middle Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 15:52:58

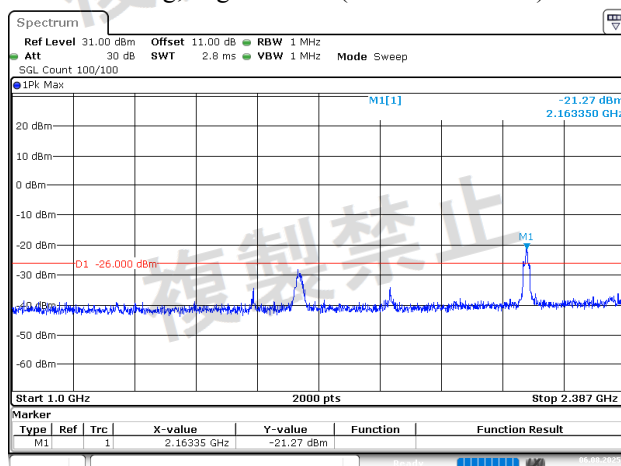
## 802.11g, High Channel(30MHz~1GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 09:33:54

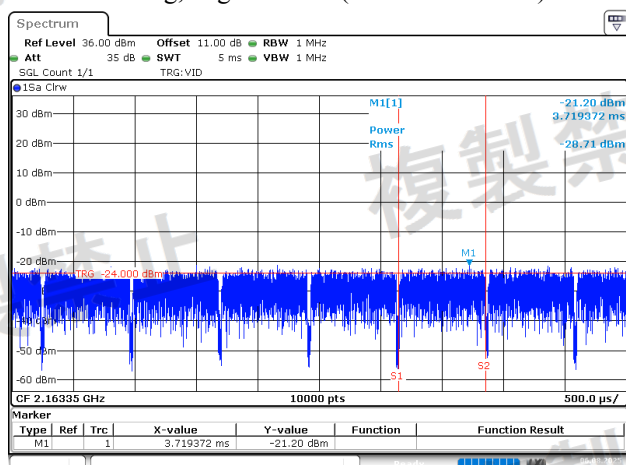
## 802.11g, High Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 09:34:05

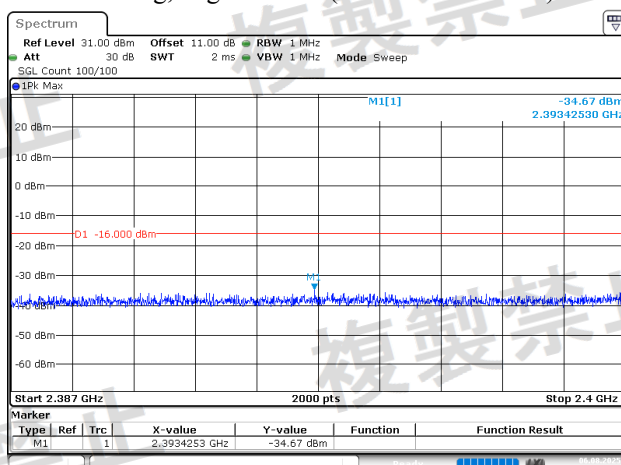
## 802.11g, High Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 09:35:05

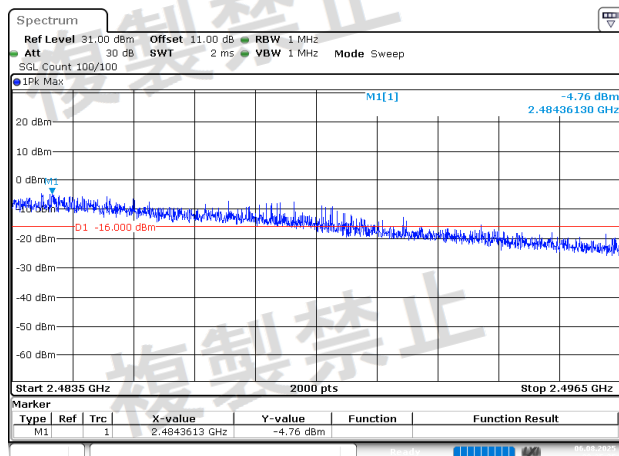
## 802.11g, High Channel(2.387GHz~2.4GHz)



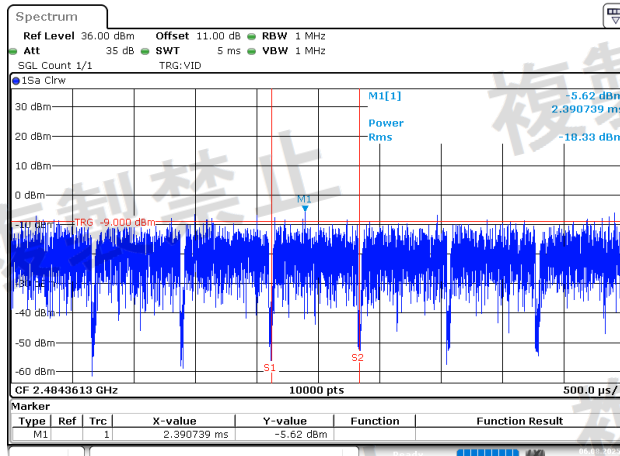
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 09:35:16

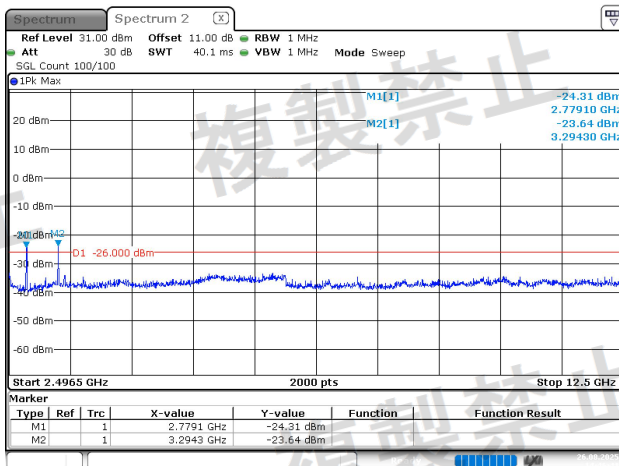
## 802.11g, High Channel(2.4835GHz~2.4965GHz)

ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 09:35:26

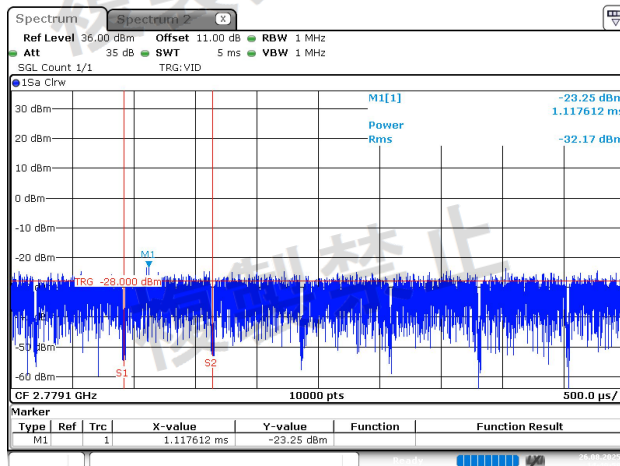
## 802.11g, High Channel(2.4835GHz~2.4965GHz)

ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 09:36:19

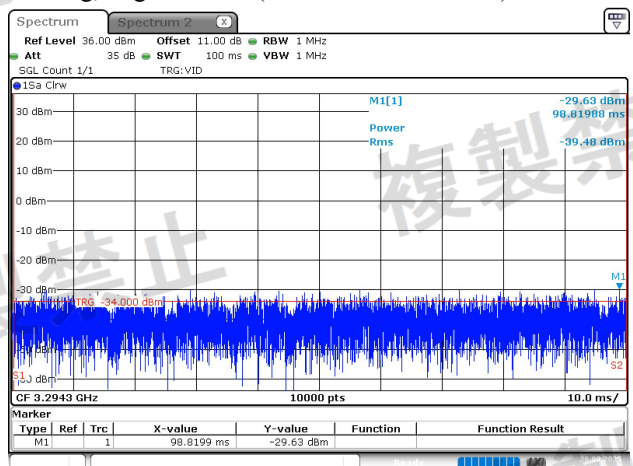
## 802.11g, High Channel(2.4965GHz~12.5GHz)

ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 26.AUG.2025 14:46:41

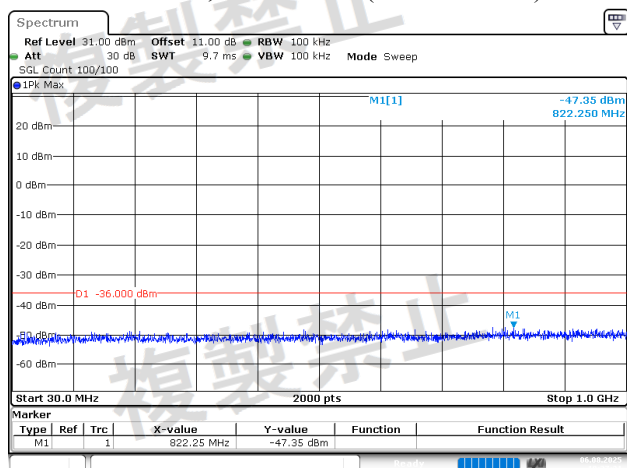
## 802.11g, High Channel(2.4965GHz~12.5GHz)

ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 26.AUG.2025 14:49:50

## 802.11g, High Channel(2.4965GHz~12.5GHz)

ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 26.AUG.2025 14:50:31

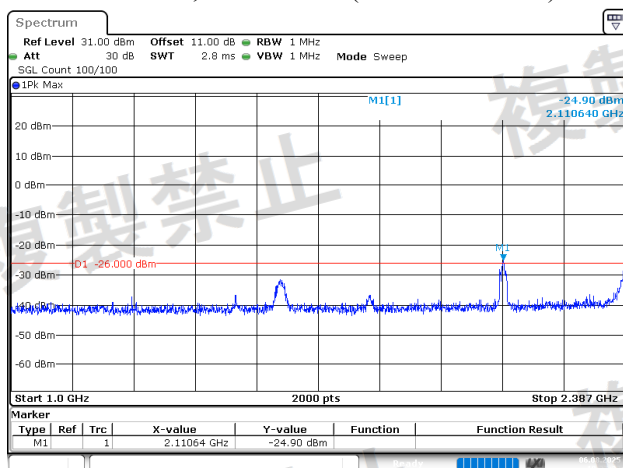
## 802.11n20, Low Channel(30MHz~1GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 10:37:22

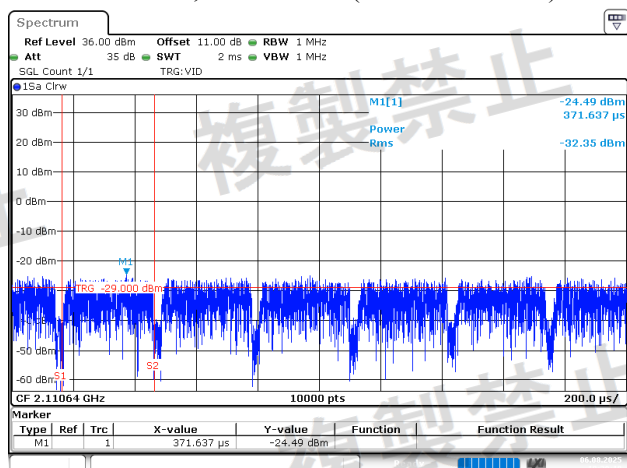
## 802.11n20, Low Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 10:37:33

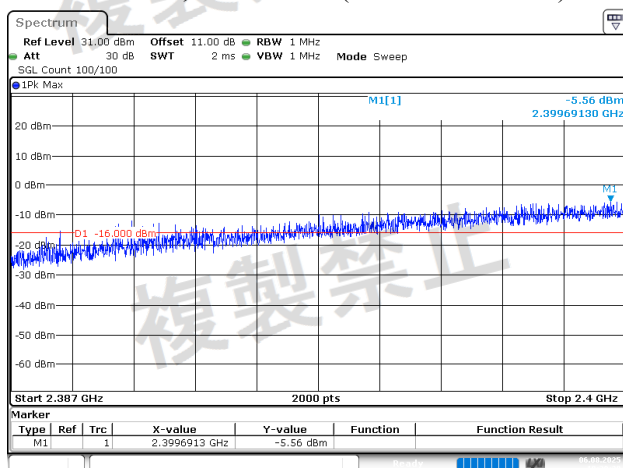
## 802.11n20, Low Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 10:39:20

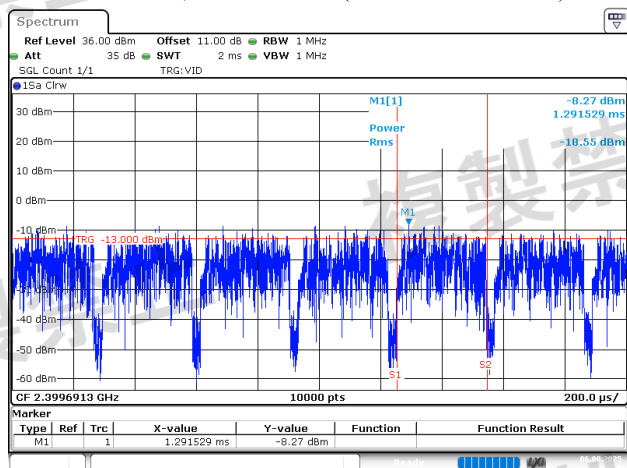
## 802.11n20, Low Channel(2.387GHz~2.4GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 10:39:30

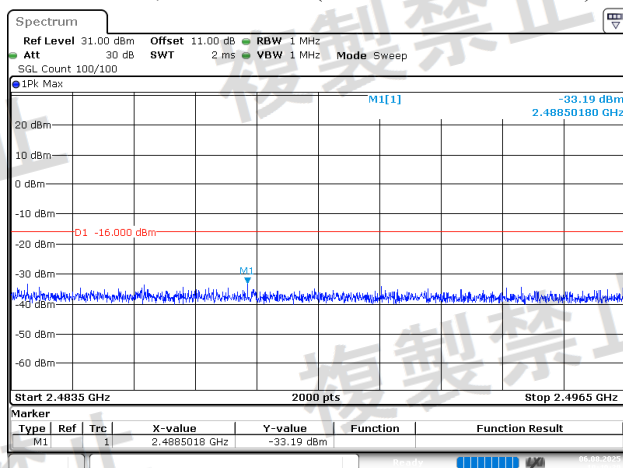
## 802.11n20, Low Channel(2.387GHz~2.4GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 10:40:29

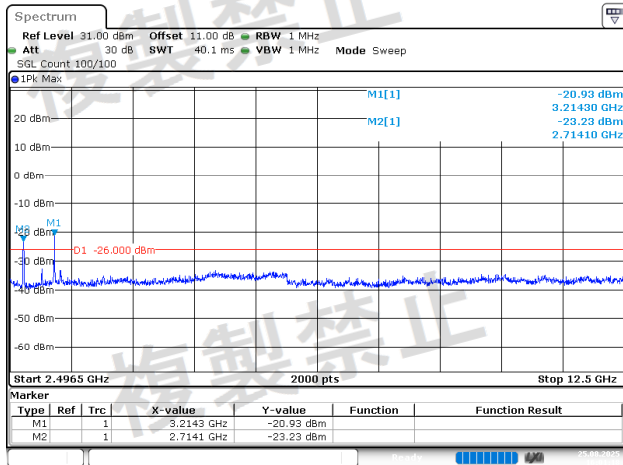
## 802.11n20, Low Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

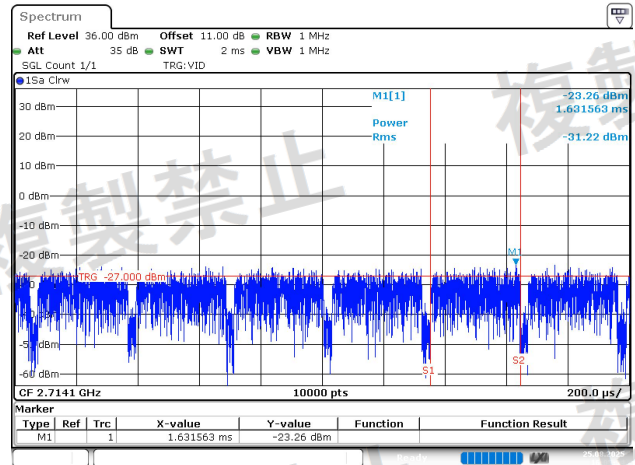
Date: 6.AUG.2025 10:40:40

## 802.11n20, Low Channel(2.4965GHz~12.5GHz)



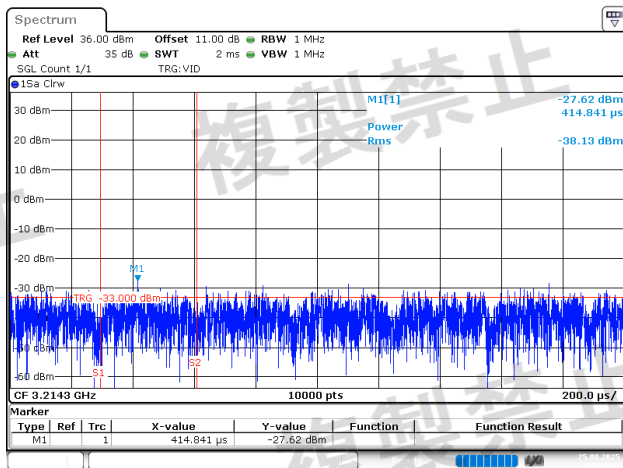
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 16:01:18

## 802.11n20, Low Channel(2.4965GHz~12.5GHz)



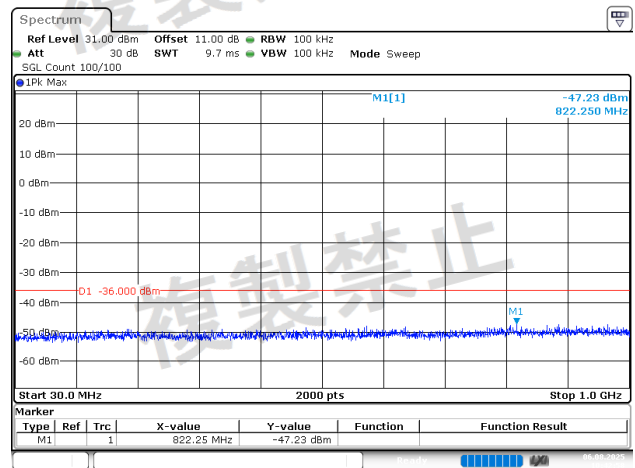
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 16:05:34

## 802.11n20, Low Channel(2.4965GHz~12.5GHz)



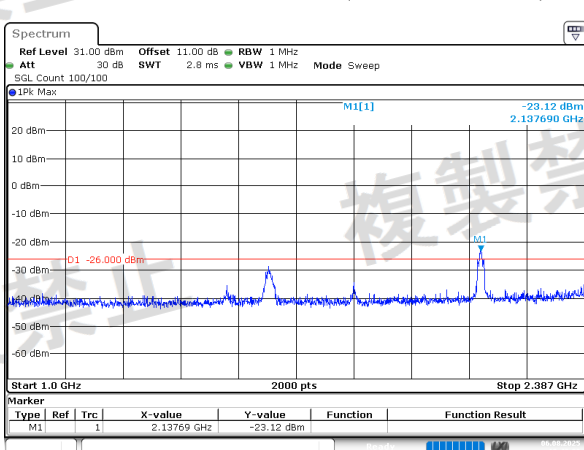
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 16:04:15

## 802.11n20, Middle Channel(30MHz~1GHz)



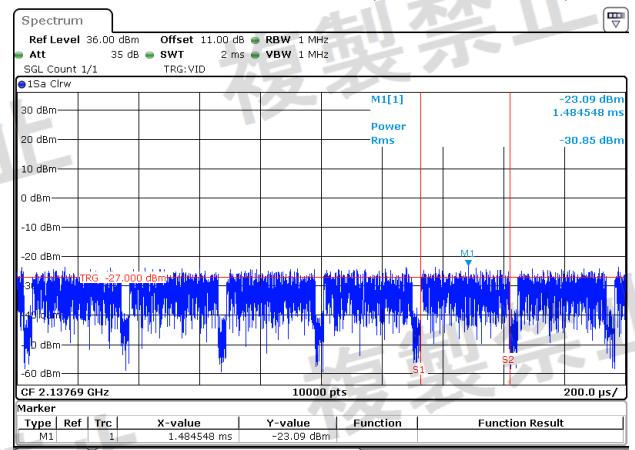
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 10:42:59

## 802.11n20, Middle Channel(1GHz~2.387GHz)



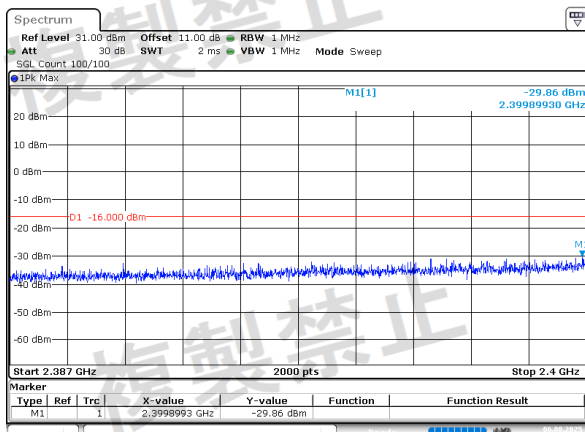
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 10:43:10

## 802.11n20, Middle Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 10:44:21

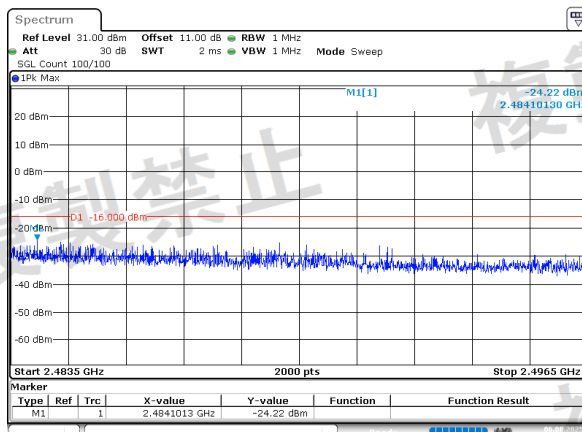
## 802.11n20, Middle Channel(2.387GHz~2.4GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 10:44:32

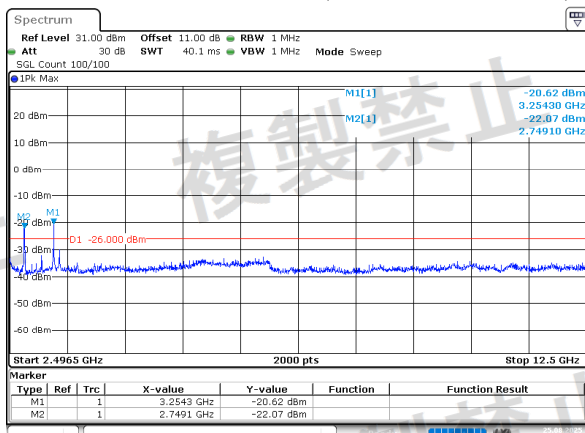
## 802.11n20, Middle Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 10:44:42

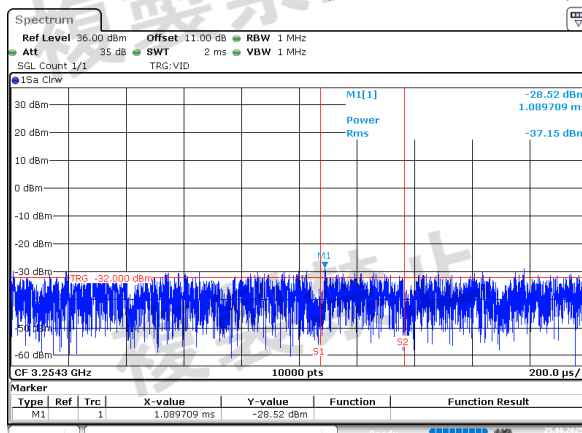
## 802.11n20, Middle Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 16:07:10

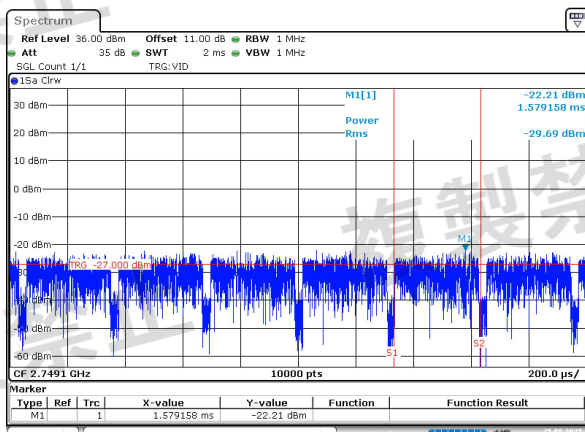
## 802.11n20, Middle Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 16:08:27

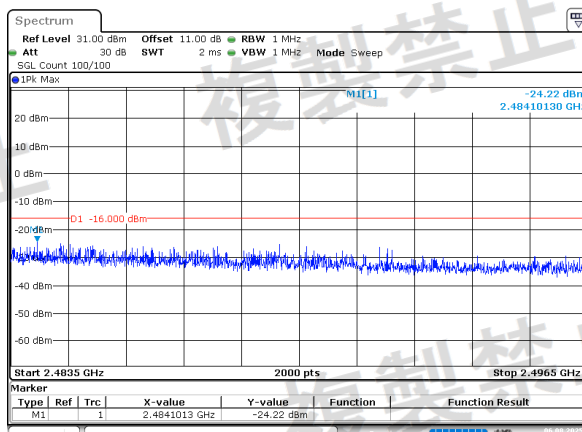
## 802.11n20, Middle Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 16:09:15

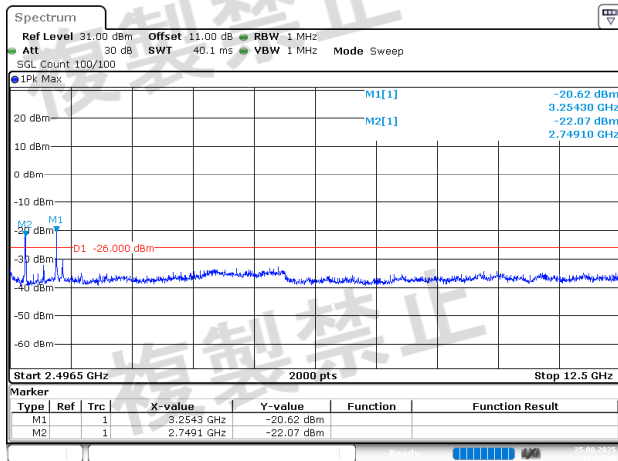
## 802.11n20, Middle Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

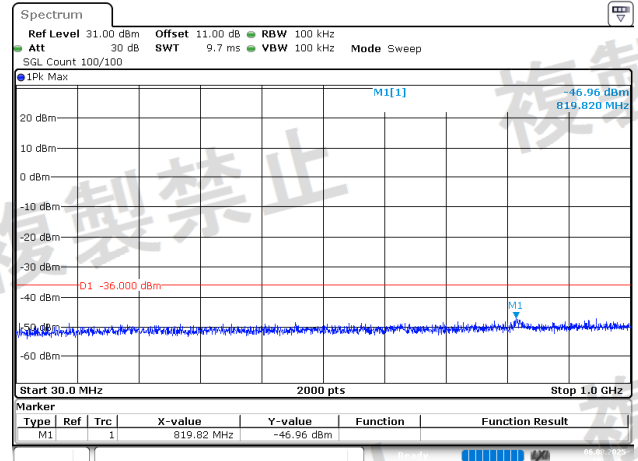
Date: 6.AUG.2025 10:44:42

## 802.11n20, Middle Channel(2.4965GHz~12.5GHz)



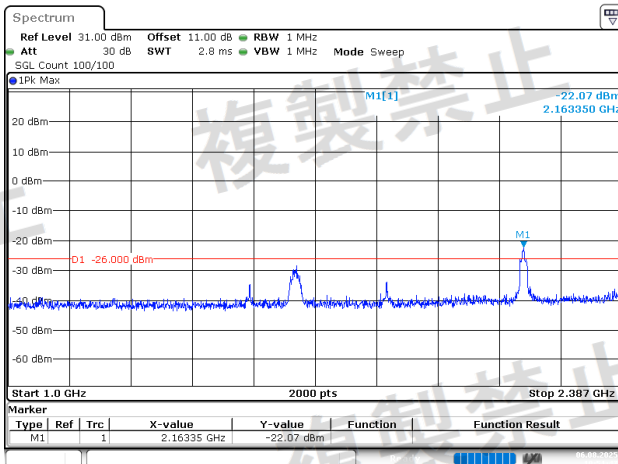
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 16:07:10

## 802.11n20, High Channel(30MHz~1GHz)



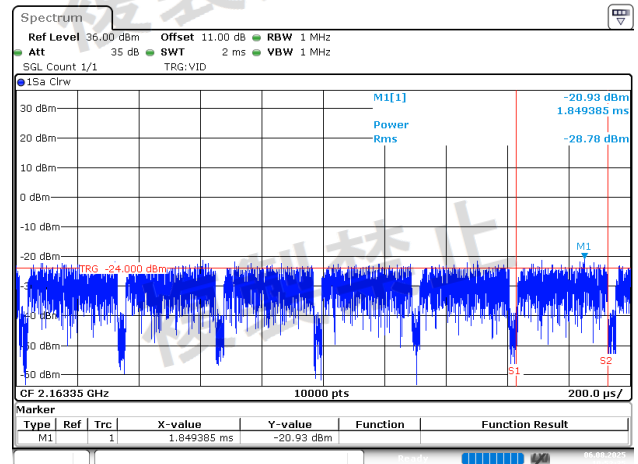
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 10:51:37

## 802.11n20, High Channel(1GHz~2.387GHz)



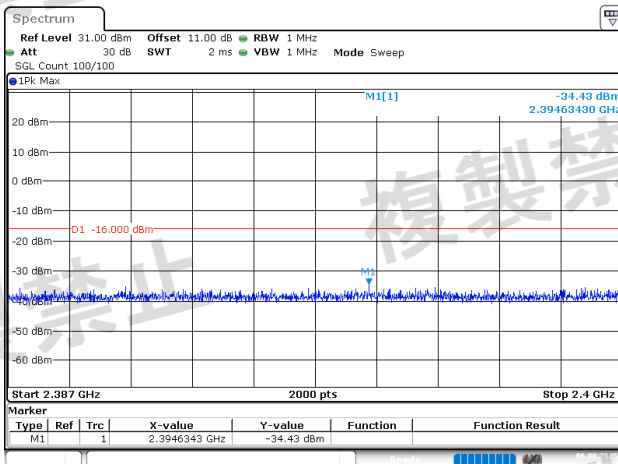
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 10:51:47

## 802.11n20, High Channel(1GHz~2.387GHz)



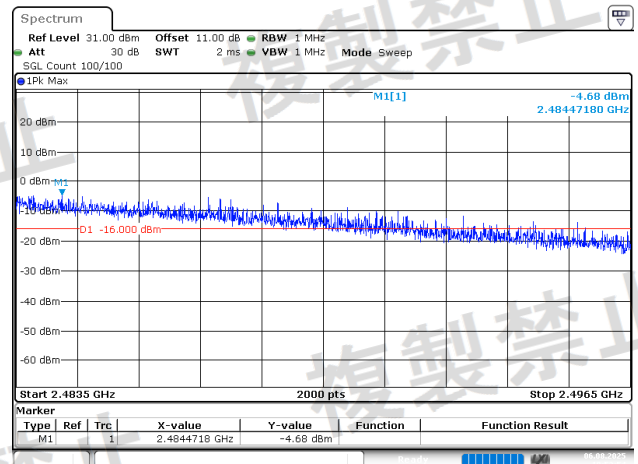
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 10:52:36

## 802.11n20, High Channel(2.387GHz~2.4GHz)



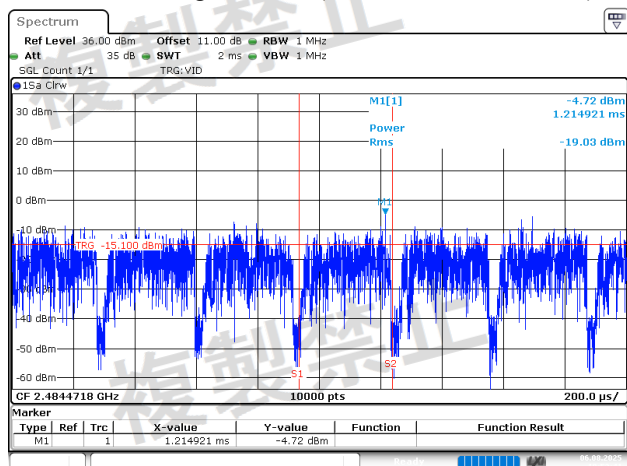
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 10:52:45

## 802.11n20, High Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 10:52:54

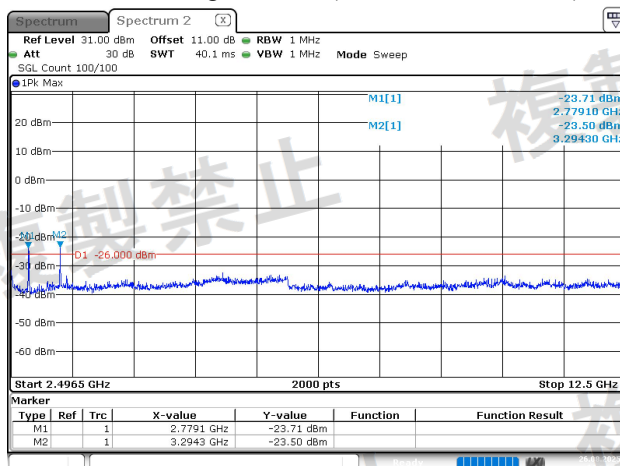
## 802.11n20, High Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 10:53:41

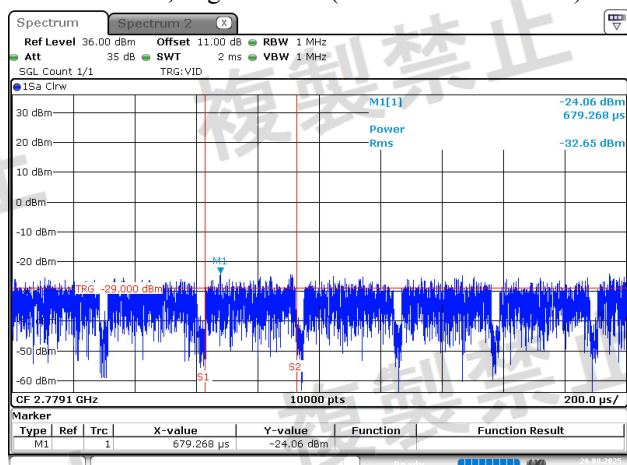
## 802.11n20, High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 26.AUG.2025 14:52:17

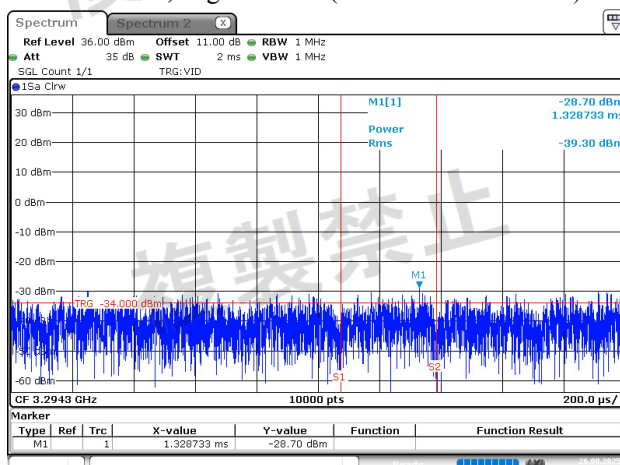
## 802.11n20, High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 26.AUG.2025 14:53:45

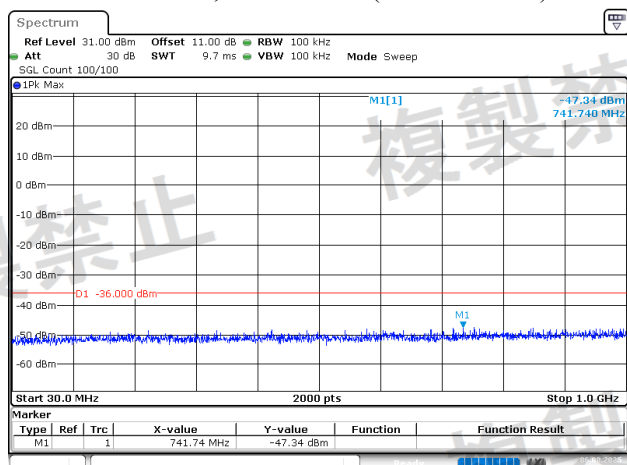
## 802.11n20, High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 26.AUG.2025 14:53:09

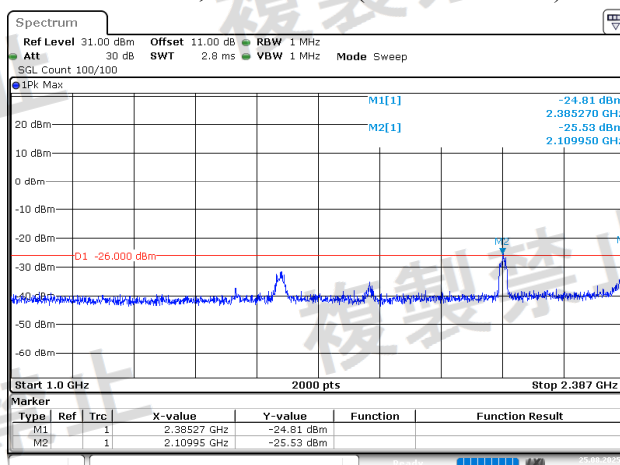
## 802.11ax20, Low Channel(30MHz~1GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 11:09:31

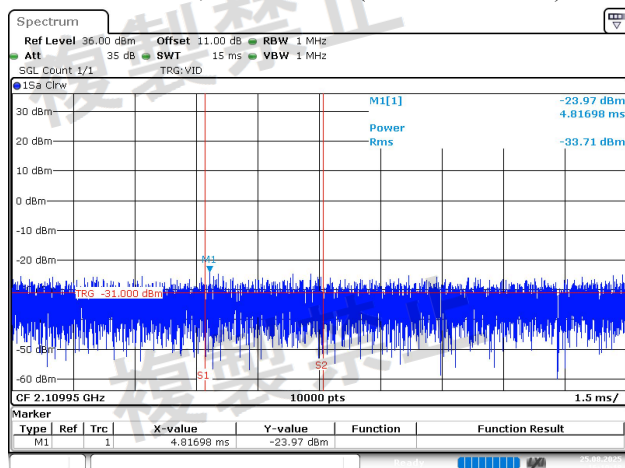
## 802.11ax20, Low Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 16:15:31

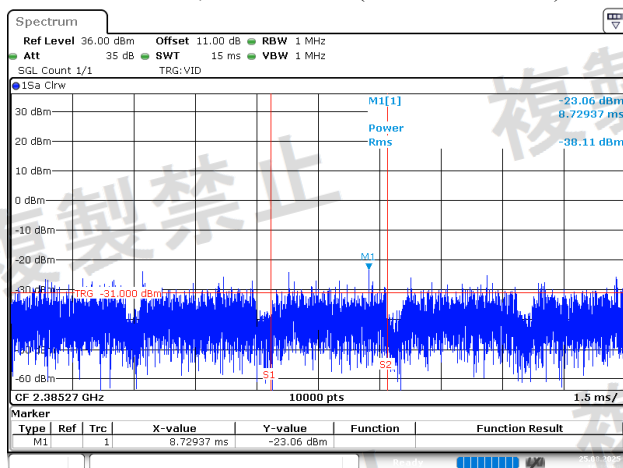
## 802.11ax20, Low Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 16:19:18

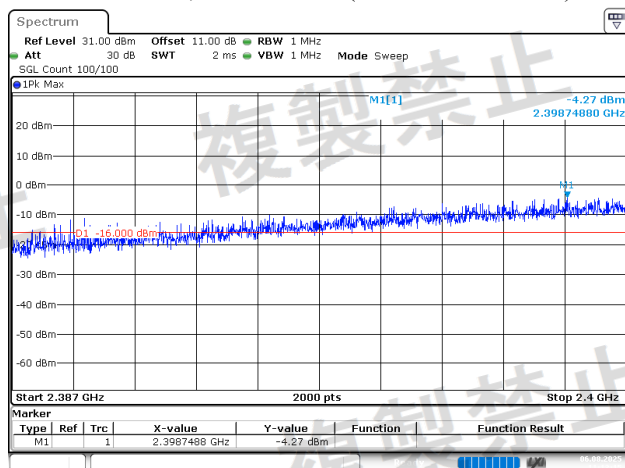
## 802.11ax20, Low Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 25.AUG.2025 16:18:00

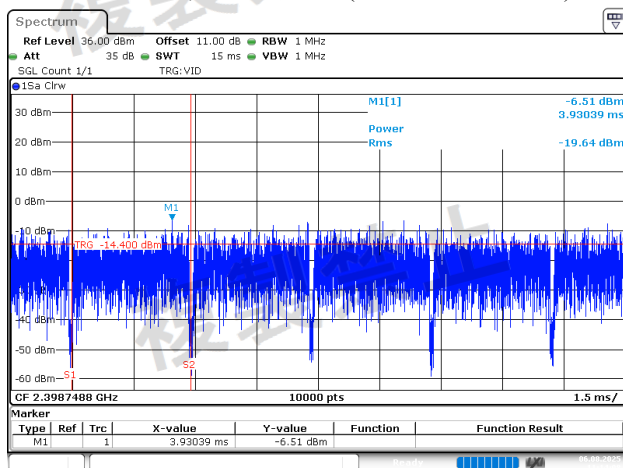
## 802.11ax20, Low Channel(2.387GHz~2.4GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 11:13:15

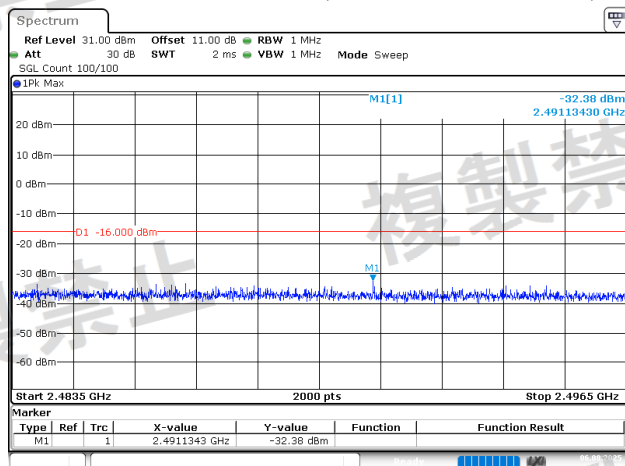
## 802.11ax20, Low Channel(2.387GHz~2.4GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 11:14:09

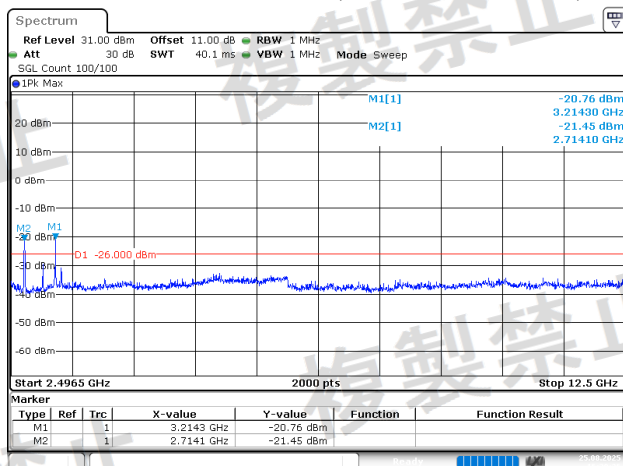
## 802.11ax20, Low Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 11:14:19

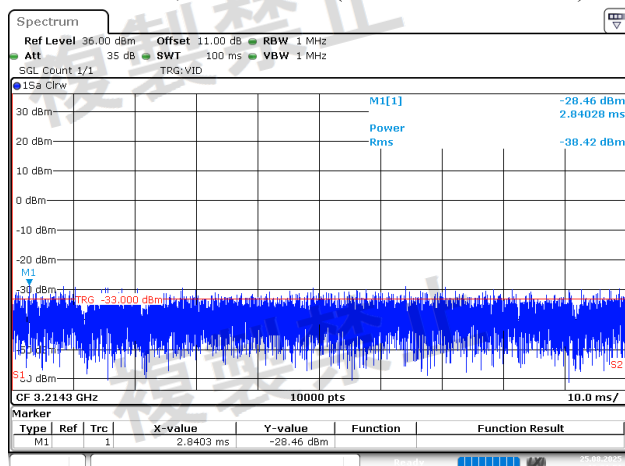
## 802.11ax20, Low Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

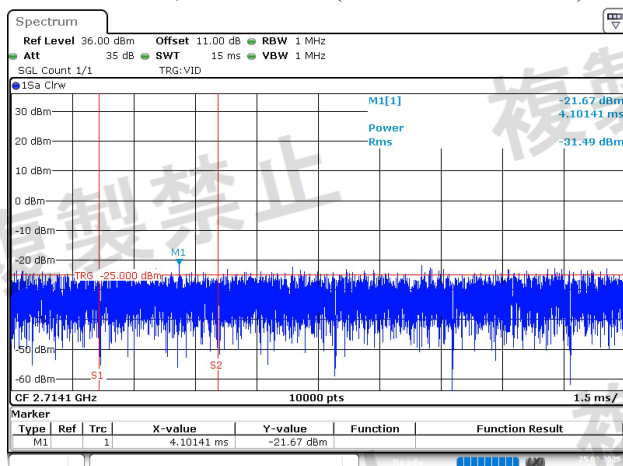
Date: 25.AUG.2025 16:20:36

## 802.11ax20, Low Channel(2.4965GHz~12.5GHz)



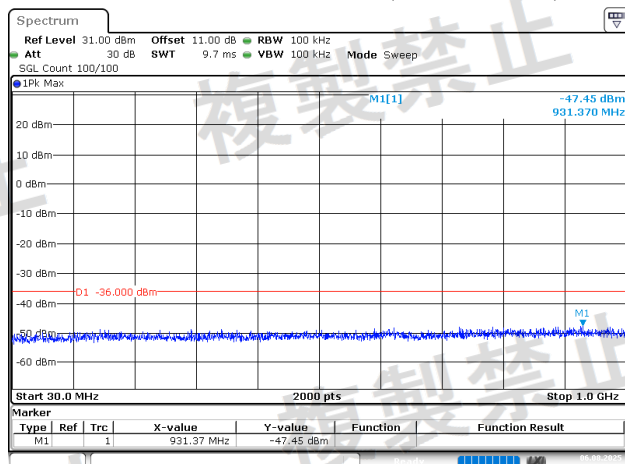
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 16:21:51

## 802.11ax20, Low Channel(2.4965GHz~12.5GHz)



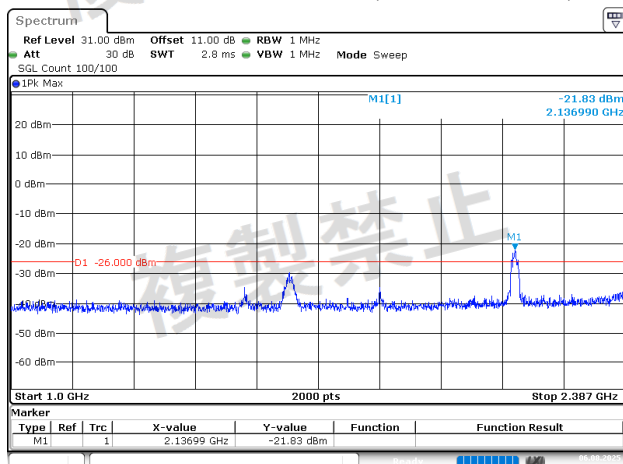
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 16:24:05

## 802.11ax20, Middle Channel(30MHz~1GHz)



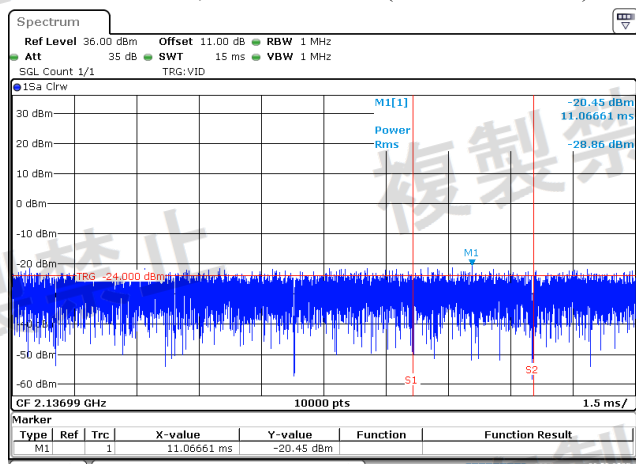
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 11:18:48

## 802.11ax20, Middle Channel(1GHz~2.387GHz)



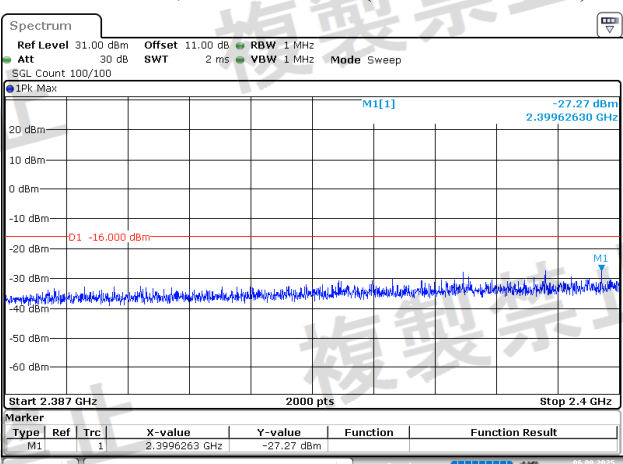
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 11:18:59

## 802.11ax20, Middle Channel(1GHz~2.387GHz)



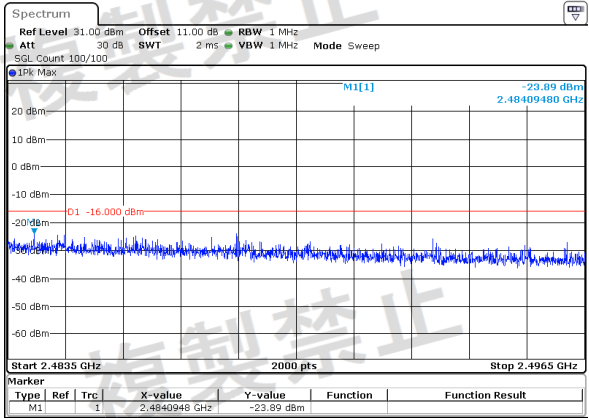
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 11:19:57

## 802.11ax20, Middle Channel(2.387GHz~2.4GHz)



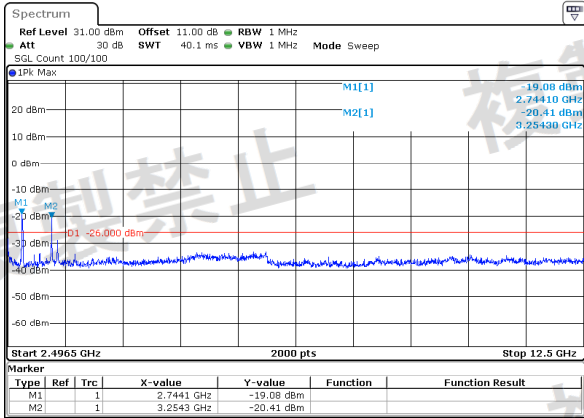
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 11:20:07

802.11ax20, Middle Channel(2.4835GHz~2.4965GHz)



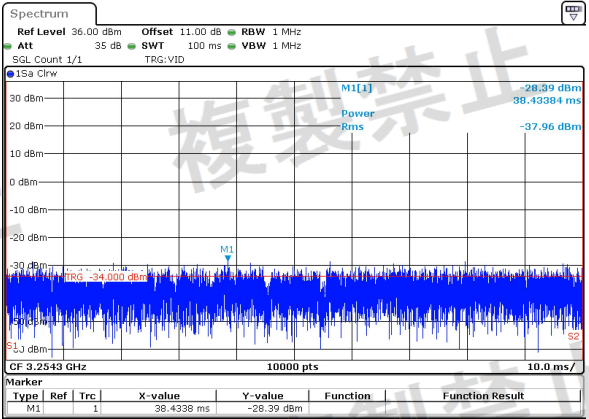
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 11:20:18

802.11ax20, Middle Channel(2.4965GHz~12.5GHz)



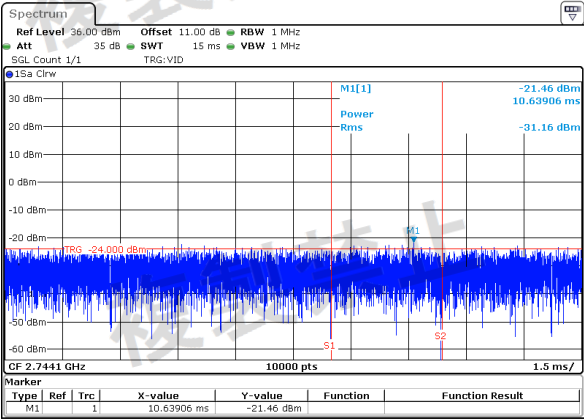
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 16:27:45

802.11ax20, Middle Channel(2.4965GHz~12.5GHz)



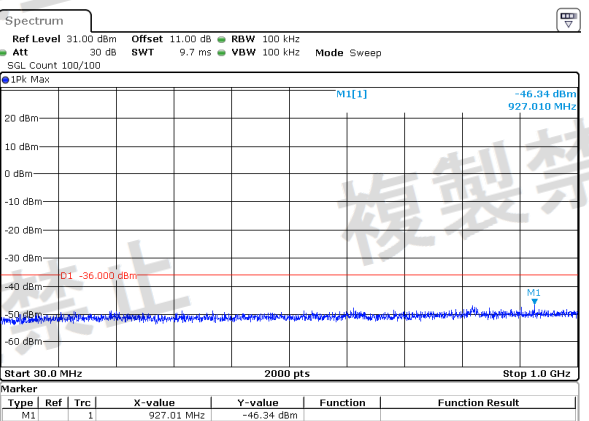
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 16:32:07

802.11ax20, Middle Channel(2.4965GHz~12.5GHz)



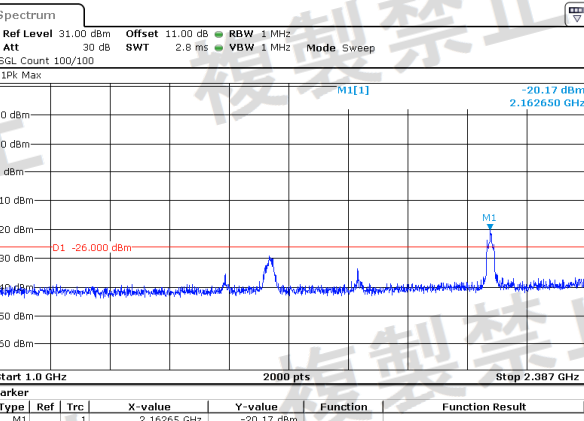
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 25.AUG.2025 16:29:11

802.11ax20, High Channel(30MHz~1GHz)



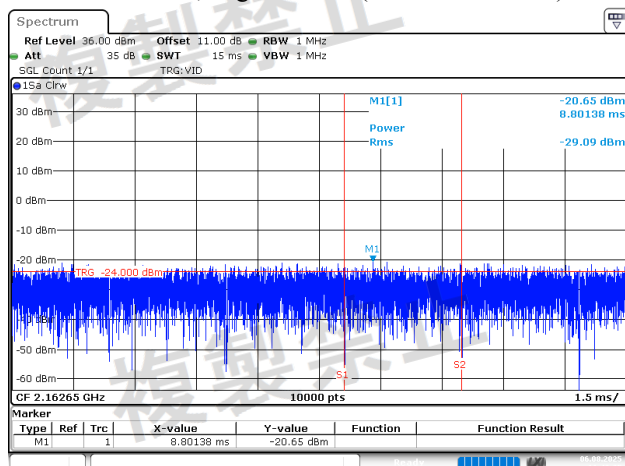
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 11:40:25

802.11ax20, High Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 11:40:34

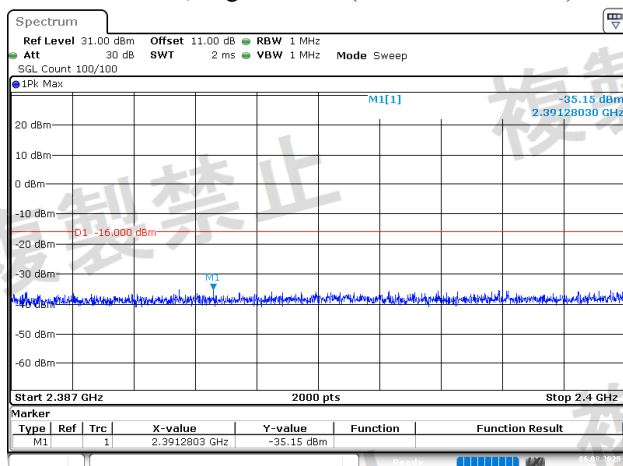
## 802.11ax20, High Channel(1GHz~2.387GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 11:42:26

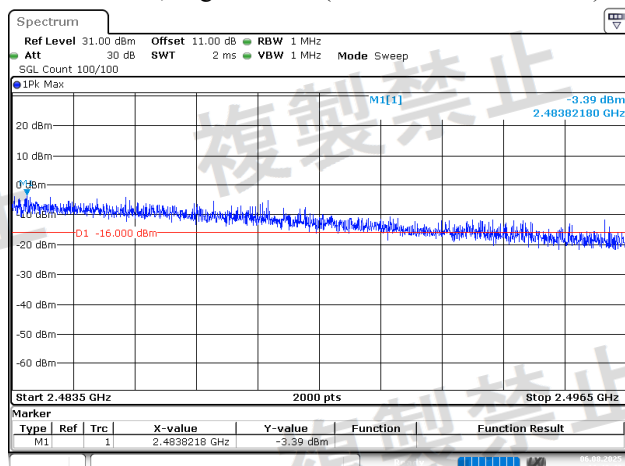
## 802.11ax20, High Channel(2.387GHz~2.4GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 11:42:34

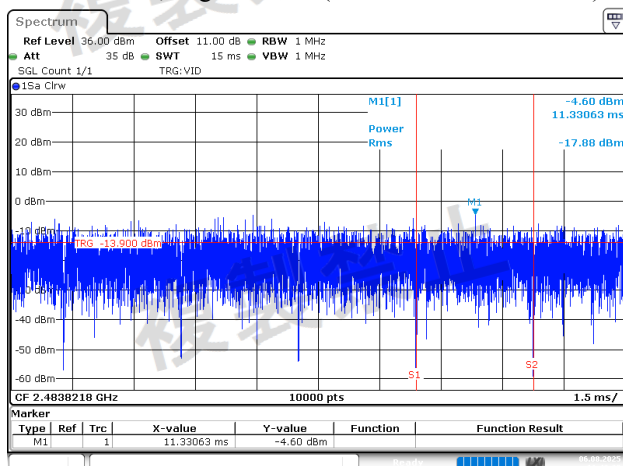
## 802.11ax20, High Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 11:42:43

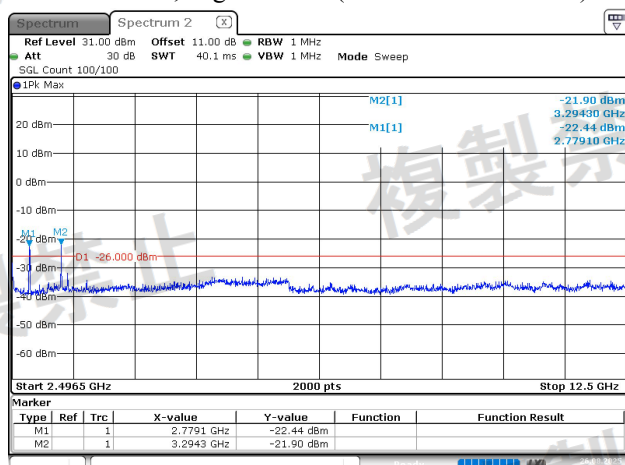
## 802.11ax20, High Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 6.AUG.2025 11:43:29

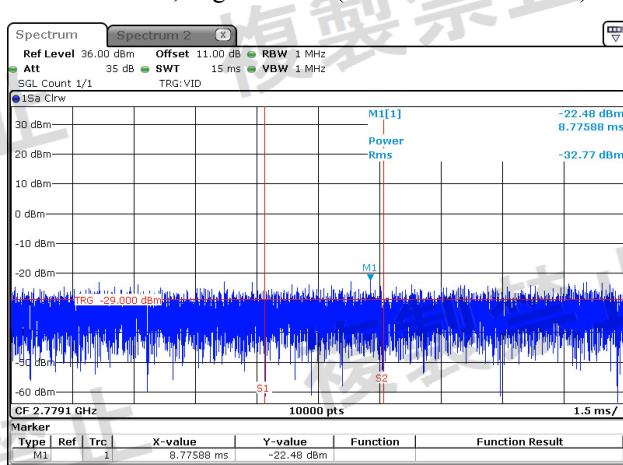
## 802.11ax20, High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 26.AUG.2025 14:55:49

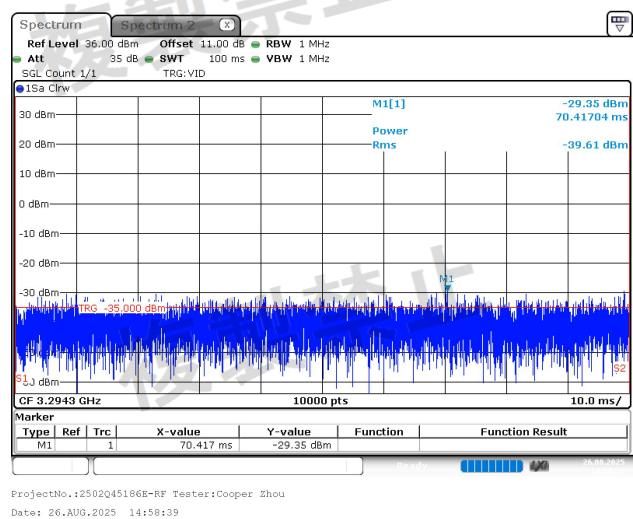
## 802.11ax20, High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou

Date: 26.AUG.2025 14:56:41

802.11ax20, High Channel(2.4965GHz~12.5GHz)



Note:

- 1. For those unwanted emissions which exceeded the limits in the pre-scan measurements, all of them have already been accurately measured, but only the worst case was showed in report.
- 2. Note: Offset = Coaxial Attenuator (10dB) + Cable Loss (1dB)

Antenna Output Power and Output Power Tolerance

RRQ61051-008:

Test Information:

|             |             |              |              |
|-------------|-------------|--------------|--------------|
| Serial No.: | 2YV8-1      | Test Date:   | 2025/08/06   |
| Test Site:  | RF          | Test Mode:   | Transmitting |
| Tester:     | Cooper Zhou | Test Result: | Pass         |

Environmental Conditions:

|                      |      |                           |    |                        |      |
|----------------------|------|---------------------------|----|------------------------|------|
| Temperature:<br>(°C) | 25.8 | Relative Humidity:<br>(%) | 71 | ATM Pressure:<br>(kPa) | 99.8 |
|----------------------|------|---------------------------|----|------------------------|------|

Test Equipment List and Details:

| Manufacturer  | Description                 | Model     | Serial Number | Calibration Date | Calibration Due Date | Calibration Agency | Calibration Method |
|---------------|-----------------------------|-----------|---------------|------------------|----------------------|--------------------|--------------------|
| All-sun       | Clamp Meter                 | EM305A    | 8348897       | 2024/08/16       | 2025/08/15           | BACL Metrology     | C                  |
| R&S           | Spectrum Analyzer           | FSP 38    | 100478        | 2024/09/05       | 2025/09/04           | BACL Metrology     | C                  |
| Mini-Circuits | Coaxial DC Block            | BLK-18-S+ | 15542         | 2025/02/28       | 2026/02/27           | BACL(DG)           | D                  |
| Anritsu       | Microwave Peak Power Sensor | MA24418A  | 12618         | 2025/06/11       | 2026/06/10           | BACL Metrology     | C                  |
| R&S           | Coaxial Attenuator          | 10dB      | F-08-EM512    | 2025/06/13       | 2026/06/12           | BACL(DG)           | D                  |
| TDK-Lambda    | DC Power Supply             | Z+60-14   | F-08-EM038-1  | N/A              | N/A                  | N/A                | N/A                |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Note:

- A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).
- B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).
- C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c).

**Test Condition: NV**

| Mode       | Antenna gain (dBi) | Declared power (mW/MHz) |
|------------|--------------------|-------------------------|
| 802.11b    | -0.2               | 9.1                     |
| 802.11g    | -0.2               | 5.0                     |
| 802.11n20  | -0.2               | 4.2                     |
| 802.11ax20 | -0.2               | 3.8                     |

| Mode       | Channel | Antenna output power (dBm/MHz) | Antenna output power(mW/MHz) |       | Antenna output tolerance(%) |         | EIRP (dBm/MHz) |         | Verdict |
|------------|---------|--------------------------------|------------------------------|-------|-----------------------------|---------|----------------|---------|---------|
|            |         |                                | Result                       | Limit | Result                      | Limit   | Result         | Limit   |         |
| 802.11b    | Low     | 7.58                           | 5.728                        | ≤ 10  | -37.05                      | -80~+20 | 7.38           | ≤ 12.14 | Pass    |
|            | Middle  | 9.58                           | 9.078                        | ≤ 10  | -0.24                       | -80~+20 | 9.38           | ≤ 12.14 | Pass    |
|            | High    | 9.43                           | 8.770                        | ≤ 10  | -3.63                       | -80~+20 | 9.23           | ≤ 12.14 | Pass    |
| 802.11g    | Low     | 6.36                           | 4.325                        | ≤ 10  | -13.50                      | -80~+20 | 6.16           | ≤ 12.14 | Pass    |
|            | Middle  | 6.92                           | 4.920                        | ≤ 10  | -1.60                       | -80~+20 | 6.72           | ≤ 12.14 | Pass    |
|            | High    | 6.16                           | 4.130                        | ≤ 10  | -17.40                      | -80~+20 | 5.96           | ≤ 12.14 | Pass    |
| 802.11n20  | Low     | 5.49                           | 3.540                        | ≤ 10  | -15.71                      | -80~+20 | 5.29           | ≤ 12.14 | Pass    |
|            | Middle  | 6.20                           | 4.169                        | ≤ 10  | -0.74                       | -80~+20 | 6.00           | ≤ 12.14 | Pass    |
|            | High    | 6.11                           | 4.083                        | ≤ 10  | -2.79                       | -80~+20 | 5.91           | ≤ 12.14 | Pass    |
| 802.11ax20 | Low     | 5.25                           | 3.350                        | ≤ 10  | -11.84                      | -80~+20 | 5.05           | ≤ 12.14 | Pass    |
|            | Middle  | 5.73                           | 3.741                        | ≤ 10  | -1.55                       | -80~+20 | 5.53           | ≤ 12.14 | Pass    |
|            | High    | 5.12                           | 3.251                        | ≤ 10  | -14.45                      | -80~+20 | 4.92           | ≤ 12.14 | Pass    |

Note:

Antenna output power (mW/MHz)=  $10^{\lceil \text{Antenna output power(dBm/MHz)} / 10 \rceil}$ 

Antenna output power tolerance(%) = (Antenna output power - Declared power) / Declared power \* 100

EIRP(dBm/MHz) = Antenna output power(dBm/MHz) + Antenna gain.

## RRQ61051-208

## Test Information:

|             |             |              |              |
|-------------|-------------|--------------|--------------|
| Serial No.: | 2YV8-2      | Test Date:   | 2025/11/25   |
| Test Site:  | RF          | Test Mode:   | Transmitting |
| Tester:     | Cooper Zhou | Test Result: | Pass         |

## Environmental Conditions:

|                      |      |                              |    |                        |       |
|----------------------|------|------------------------------|----|------------------------|-------|
| Temperature:<br>(°C) | 25.2 | Relative<br>Humidity:<br>(%) | 65 | ATM Pressure:<br>(kPa) | 101.4 |
|----------------------|------|------------------------------|----|------------------------|-------|

## Test Equipment List and Details:

| Manufacturer  | Description                 | Model           | Serial Number | Calibration Date | Calibration Due Date | Calibration Agency | Calibration Method |
|---------------|-----------------------------|-----------------|---------------|------------------|----------------------|--------------------|--------------------|
| Mini-Circuits | Coaxial DC Block            | BLK-18-S+       | 15542         | 2025/02/28       | 2026/02/27           | BACL(DG)           | D                  |
| Eastsheep     | Coaxial Attenuator          | 5W-N-JK-6G-10dB | F-08-EM503    | 2025/06/06       | 2026/06/05           | BACL(DG)           | D                  |
| Anritsu       | Microwave Peak Power Sensor | MA24418A        | 12618         | 2025/06/11       | 2026/06/10           | BACL Metrology     | C                  |
| R&S           | Spectrum Analyzer           | FSP 38          | 100478        | 2025/07/28       | 2026/07/27           | BACL Metrology     | C                  |
| All-sun       | Clamp Meter                 | EM305A          | 8348897       | 2025/8/18        | 2026/8/17            | BACL Metrology     | C                  |
| TDK-Lambda    | DC Power Supply             | Z+60-14         | F-08-EM038-1  | N/A              | N/A                  | N/A                | N/A                |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

## Note:

- A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).
- B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).
- C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c).

**Test Condition: NV**

| Mode      | Antenna gain (dBi) | Declared power (mW/MHz) |
|-----------|--------------------|-------------------------|
| 802.11b   | -0.2               | 9.1                     |
| 802.11g   | -0.2               | 5.0                     |
| 802.11n20 | -0.2               | 4.2                     |

| Mode      | Channel | Antenna output power (dBm/MHz) | Antenna output power(mW/MHz) |       | Antenna output tolerance(%) |         | EIRP (dBm/MHz) |         | Verdict |
|-----------|---------|--------------------------------|------------------------------|-------|-----------------------------|---------|----------------|---------|---------|
|           |         |                                | Result                       | Limit | Result                      | Limit   | Result         | Limit   |         |
| 802.11b   | Low     | 7.19                           | 5.236                        | ≤ 10  | -42.46                      | -80~+20 | 6.99           | ≤ 12.14 | Pass    |
|           | Middle  | 9.12                           | 8.166                        | ≤ 10  | -10.26                      | -80~+20 | 8.92           | ≤ 12.14 | Pass    |
|           | High    | 9.32                           | 8.551                        | ≤ 10  | -6.03                       | -80~+20 | 9.12           | ≤ 12.14 | Pass    |
| 802.11g   | Low     | 5.91                           | 3.899                        | ≤ 10  | -22.02                      | -80~+20 | 5.51           | ≤ 12.14 | Pass    |
|           | Middle  | 6.30                           | 4.266                        | ≤ 10  | -14.68                      | -80~+20 | 6.10           | ≤ 12.14 | Pass    |
|           | High    | 5.81                           | 3.811                        | ≤ 10  | -23.78                      | -80~+20 | 5.61           | ≤ 12.14 | Pass    |
| 802.11n20 | Low     | 4.91                           | 3.097                        | ≤ 10  | -26.26                      | -80~+20 | 4.71           | ≤ 12.14 | Pass    |
|           | Middle  | 5.93                           | 3.917                        | ≤ 10  | -6.74                       | -80~+20 | 5.73           | ≤ 12.14 | Pass    |
|           | High    | 5.67                           | 3.690                        | ≤ 10  | -12.14                      | -80~+20 | 5.47           | ≤ 12.14 | Pass    |

Note:

Antenna output power(mW/MHz)=  $10^{\lceil \text{Antenna output power(dBm/MHz)} / 10 \rceil}$ 

Antenna output power tolerance(%) = (Antenna output power - Declared power) / Declared power \* 100

EIRP(dBm/MHz) = Antenna output power(dBm/MHz) + Antenna gain.

RRQ61051-408

Test Information:

|             |             |              |              |
|-------------|-------------|--------------|--------------|
| Serial No.: | 2YV8-3      | Test Date:   | 2025/11/25   |
| Test Site:  | RF          | Test Mode:   | Transmitting |
| Tester:     | Cooper Zhou | Test Result: | Pass         |

Environmental Conditions:

|                      |      |                           |    |                        |       |
|----------------------|------|---------------------------|----|------------------------|-------|
| Temperature:<br>(°C) | 25.2 | Relative Humidity:<br>(%) | 65 | ATM Pressure:<br>(kPa) | 101.4 |
|----------------------|------|---------------------------|----|------------------------|-------|

Test Equipment List and Details:

| Manufacturer  | Description                 | Model           | Serial Number | Calibration Date | Calibration Due Date | Calibration Agency | Calibration Method |
|---------------|-----------------------------|-----------------|---------------|------------------|----------------------|--------------------|--------------------|
| Mini-Circuits | Coaxial DC Block            | BLK-18-S+       | 15542         | 2025/02/28       | 2026/02/27           | BACL(DG)           | D                  |
| Eastsheep     | Coaxial Attenuator          | 5W-N-JK-6G-10dB | F-08-EM503    | 2025/06/06       | 2026/06/05           | BACL(DG)           | D                  |
| Anritsu       | Microwave Peak Power Sensor | MA24418A        | 12618         | 2025/06/11       | 2026/06/10           | BACL Metrology     | C                  |
| R&S           | Spectrum Analyzer           | FSP 38          | 100478        | 2025/07/28       | 2026/07/27           | BACL Metrology     | C                  |
| All-sun       | Clamp Meter                 | EM305A          | 8348897       | 2025/8/18        | 2026/8/17            | BACL Metrology     | C                  |
| TDK-Lambda    | DC Power Supply             | Z+60-14         | F-08-EM038-1  | N/A              | N/A                  | N/A                | N/A                |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Note:

- A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).
- B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).
- C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c).

**Test Condition: NV**

| Mode       | Antenna gain (dBi) | Declared power (mW/MHz) |
|------------|--------------------|-------------------------|
| 802.11b    | -0.2               | 9.1                     |
| 802.11g    | -0.2               | 5.0                     |
| 802.11n20  | -0.2               | 4.2                     |
| 802.11ax20 | -0.2               | 3.8                     |

| Mode       | Channel | Antenna output power (dBm/MHz) | Antenna output power(mW/MHz) |       | Antenna output tolerance(%) |         | EIRP (dBm/MHz) |         | Verdict |
|------------|---------|--------------------------------|------------------------------|-------|-----------------------------|---------|----------------|---------|---------|
|            |         |                                | Result                       | Limit | Result                      | Limit   | Result         | Limit   |         |
| 802.11b    | Low     | 7.21                           | 5.260                        | ≤ 10  | -42.2                       | -80~+20 | 7.01           | ≤ 12.14 | Pass    |
|            | Middle  | 9.12                           | 8.166                        | ≤ 10  | -10.26                      | -80~+20 | 8.92           | ≤ 12.14 | Pass    |
|            | High    | 9.09                           | 8.110                        | ≤ 10  | -10.88                      | -80~+20 | 8.89           | ≤ 12.14 | Pass    |
| 802.11g    | Low     | 5.95                           | 3.936                        | ≤ 10  | -21.28                      | -80~+20 | 5.75           | ≤ 12.14 | Pass    |
|            | Middle  | 6.63                           | 4.603                        | ≤ 10  | -7.94                       | -80~+20 | 6.43           | ≤ 12.14 | Pass    |
|            | High    | 5.76                           | 3.767                        | ≤ 10  | -24.66                      | -80~+20 | 5.56           | ≤ 12.14 | Pass    |
| 802.11n20  | Low     | 5.32                           | 3.404                        | ≤ 10  | -18.95                      | -80~+20 | 5.12           | ≤ 12.14 | Pass    |
|            | Middle  | 5.97                           | 3.954                        | ≤ 10  | -5.86                       | -80~+20 | 5.77           | ≤ 12.14 | Pass    |
|            | High    | 5.78                           | 3.784                        | ≤ 10  | -9.9                        | -80~+20 | 5.58           | ≤ 12.14 | Pass    |
| 802.11ax20 | Low     | 4.89                           | 3.083                        | ≤ 10  | -18.87                      | -80~+20 | 4.69           | ≤ 12.14 | Pass    |
|            | Middle  | 5.42                           | 3.483                        | ≤ 10  | -8.34                       | -80~+20 | 5.22           | ≤ 12.14 | Pass    |
|            | High    | 5.04                           | 3.192                        | ≤ 10  | -16                         | -80~+20 | 4.84           | ≤ 12.14 | Pass    |

Note:

Antenna output power(mW/MHz)=  $10^{\frac{1}{10}[\text{Antenna output power(dBm/MHz)}]}$ 

Antenna output power tolerance(%) = (Antenna output power - Declared power) / Declared power \* 100

EIRP(dBm/MHz) = Antenna output power(dBm/MHz) + Antenna gain.

Receiver Spurious Emission and Unwanted Emission Intensity

Test Information:

|             |             |              |              |
|-------------|-------------|--------------|--------------|
| Serial No.: | 2YV8-1      | Test Date:   | 2025/08/06   |
| Test Site:  | RF          | Test Mode:   | Transmitting |
| Tester:     | Cooper Zhou | Test Result: | Pass         |

Environmental Conditions:

|                      |      |                           |    |                        |      |
|----------------------|------|---------------------------|----|------------------------|------|
| Temperature:<br>(°C) | 25.8 | Relative Humidity:<br>(%) | 71 | ATM Pressure:<br>(kPa) | 99.8 |
|----------------------|------|---------------------------|----|------------------------|------|

Test Equipment List and Details:

| Manufacturer  | Description        | Model     | Serial Number | Calibration Date | Calibration Due Date | Calibration Agency | Calibration Method |
|---------------|--------------------|-----------|---------------|------------------|----------------------|--------------------|--------------------|
| All-sun       | Multimeter         | EM305A    | 8348897       | 2024/08/16       | 2025/08/15           | BACL Metrology     | C                  |
| R&S           | Spectrum Analyzer  | FSV40     | 101589        | 2024/09/05       | 2025/09/04           | BACL Metrology     | C                  |
| Mini-Circuits | Coaxial DC Block   | BLK-18-S+ | 15542         | 2025/02/28       | 2026/02/27           | BACL(DG)           | D                  |
| R&S           | Coaxial Attenuator | 10dB      | F-08-EM512    | 2025/06/13       | 2026/06/12           | BACL(DG)           | D                  |
| TDK-Lambda    | DC Power Supply    | Z+60-14   | F-08-EM038-1  | N/A              | N/A                  | N/A                | N/A                |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Note:

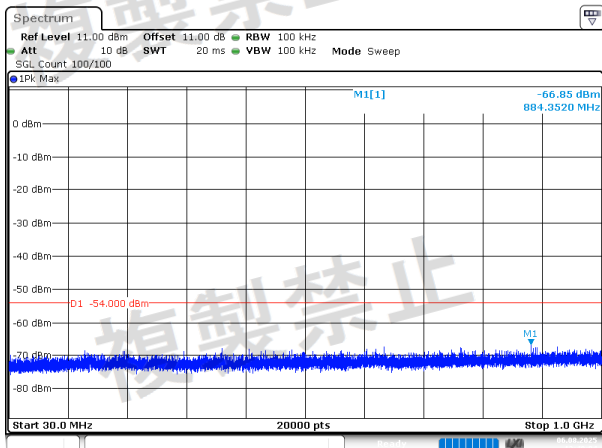
- A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).
- B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).
- C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c).

## Test Condition: NV

| Mode       | Channel | Test Band (RBW) | Frequency Range |            | Max.Emission Located(MHz) | Result (dBm) | Result (nW) | Limit (nW) | Verdict |
|------------|---------|-----------------|-----------------|------------|---------------------------|--------------|-------------|------------|---------|
|            |         |                 | Start (MHz)     | Stop (MHz) |                           |              |             |            |         |
| 802.11b    | Low     | Band I (100kHz) | 30              | 1000       | 884.352                   | -66.85       | 0.207       | 4          | Pass    |
|            |         | Band II (1MHz)  | 1000            | 12500      | 5853.29                   | -53.25       | 4.732       | 20         | Pass    |
|            | Middle  | Band I (100kHz) | 30              | 1000       | 883.576                   | -67.45       | 0.180       | 4          | Pass    |
|            |         | Band II (1MHz)  | 1000            | 12500      | 6724.41                   | -52.81       | 5.236       | 20         | Pass    |
|            | High    | Band I (100kHz) | 30              | 1000       | 977.423                   | -67.01       | 0.199       | 4          | Pass    |
|            |         | Band II (1MHz)  | 1000            | 12500      | 5948.74                   | -52.80       | 5.248       | 20         | Pass    |
| 802.11g    | Low     | Band I (100kHz) | 30              | 1000       | 796.082                   | -67.24       | 0.189       | 4          | Pass    |
|            |         | Band II (1MHz)  | 1000            | 12500      | 6708.31                   | -53.39       | 4.581       | 20         | Pass    |
|            | Middle  | Band I (100kHz) | 30              | 1000       | 754.275                   | -67.03       | 0.198       | 4          | Pass    |
|            |         | Band II (1MHz)  | 1000            | 12500      | 5887.21                   | -52.42       | 5.728       | 20         | Pass    |
|            | High    | Band I (100kHz) | 30              | 1000       | 812.475                   | -67.13       | 0.194       | 4          | Pass    |
|            |         | Band II (1MHz)  | 1000            | 12500      | 6820.44                   | -52.64       | 5.445       | 20         | Pass    |
| 802.11n20  | Low     | Band I (100kHz) | 30              | 1000       | 979.024                   | -67.54       | 0.176       | 4          | Pass    |
|            |         | Band II (1MHz)  | 1000            | 12500      | 6959.59                   | -52.44       | 5.702       | 20         | Pass    |
|            | Middle  | Band I (100kHz) | 30              | 1000       | 855.203                   | -67.52       | 0.177       | 4          | Pass    |
|            |         | Band II (1MHz)  | 1000            | 12500      | 5775.66                   | -52.56       | 5.546       | 20         | Pass    |
|            | High    | Band I (100kHz) | 30              | 1000       | 927.565                   | -67.44       | 0.180       | 4          | Pass    |
|            |         | Band II (1MHz)  | 1000            | 12500      | 6783.64                   | -52.90       | 5.129       | 20         | Pass    |
| 802.11ax20 | Low     | Band I (100kHz) | 30              | 1000       | 988.918                   | -67.55       | 0.176       | 4          | Pass    |
|            |         | Band II (1MHz)  | 1000            | 12500      | 6987.76                   | -53.00       | 5.012       | 20         | Pass    |
|            | Middle  | Band I (100kHz) | 30              | 1000       | 940.466                   | -67.18       | 0.191       | 4          | Pass    |
|            |         | Band II (1MHz)  | 1000            | 12500      | 6153.44                   | -53.06       | 4.943       | 20         | Pass    |
|            | High    | Band I (100kHz) | 30              | 1000       | 786.77                    | -67.24       | 0.189       | 4          | Pass    |
|            |         | Band II (1MHz)  | 1000            | 12500      | 5813.61                   | -53.21       | 4.775       | 20         | Pass    |

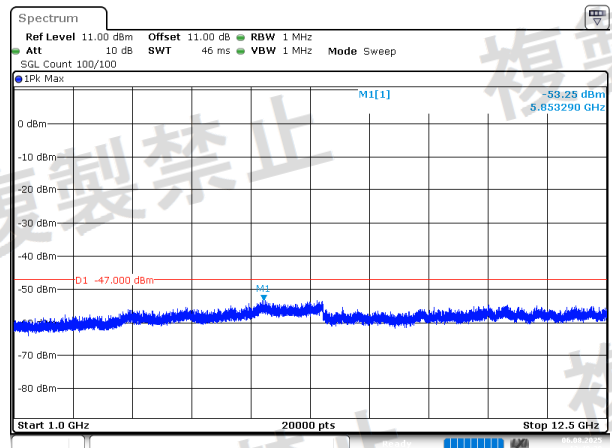
# Test Condition: NV

## 802.11b, Low Channel(30MHz~1GHz)



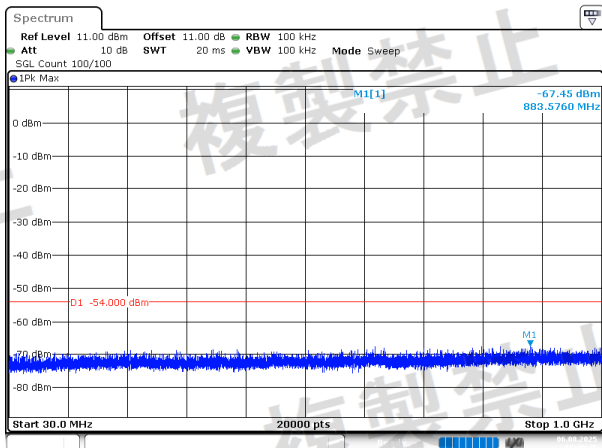
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Date: 6.AUG.2025 13:49:05

## 802.11b, Low Channel(1GHz~12.5GHz)



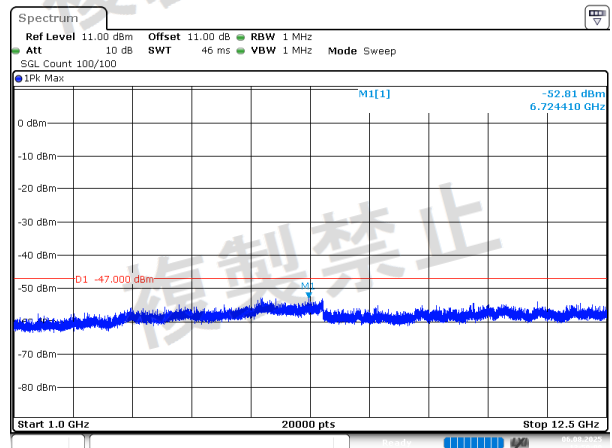
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Date: 6.AUG.2025 13:49:31

## 802.11b, Middle Channel(30MHz~1GHz)



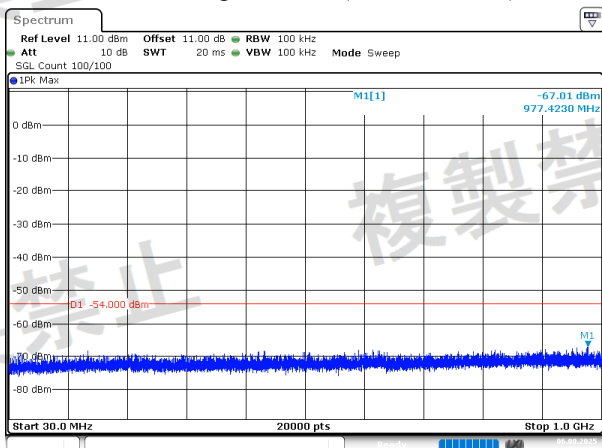
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Date: 6.AUG.2025 13:49:45

## 802.11b, Middle Channel(1GHz~12.5GHz)



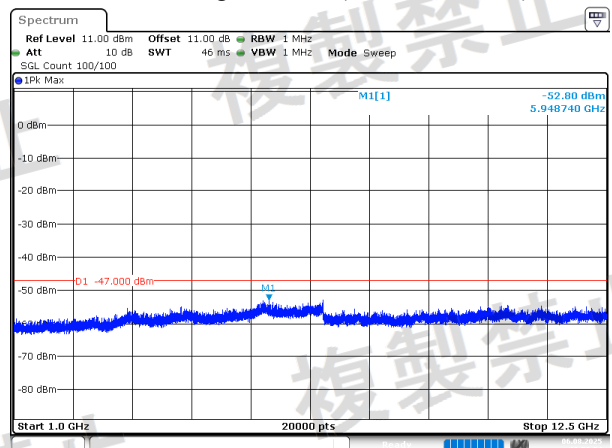
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Date: 6.AUG.2025 13:50:10

## 802.11b, High Channel(30MHz~1GHz)



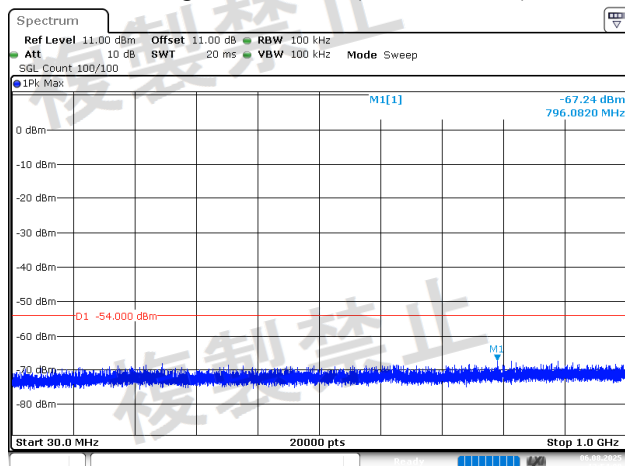
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Date: 6.AUG.2025 13:53:30

## 802.11b, High Channel(1GHz~12.5GHz)



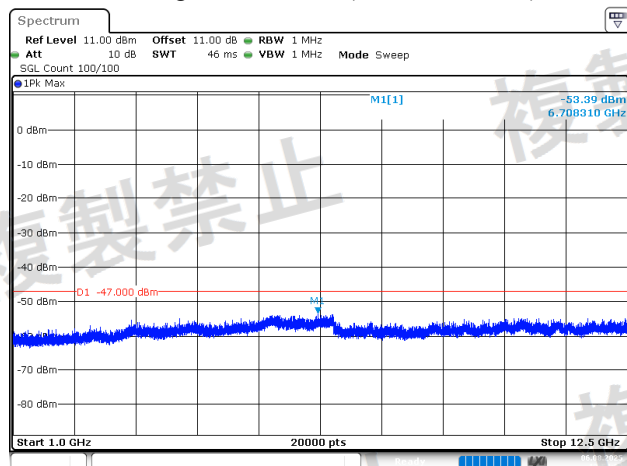
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 13:53:55

## 802.11g, Low Channel(30MHz~1GHz)



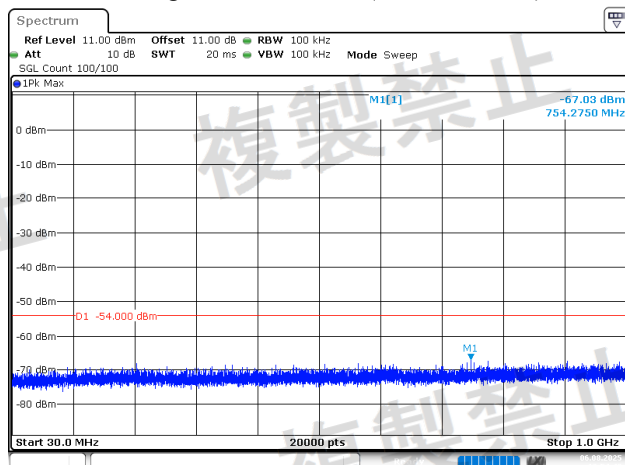
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Date: 6.AUG.2025 13:54:09

## 802.11g, Low Channel(1GHz~12.5GHz)



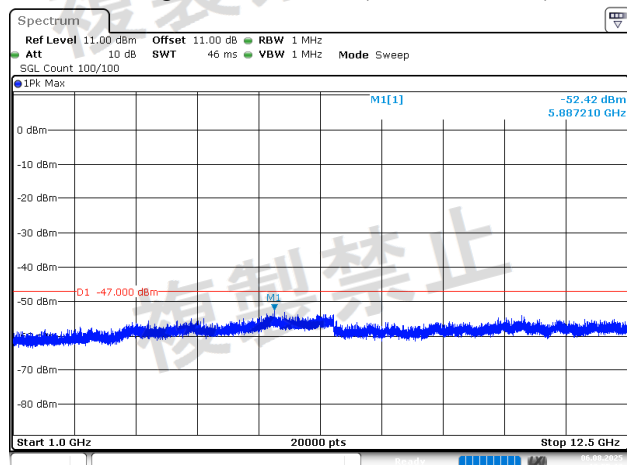
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Date: 6.AUG.2025 13:54:34

## 802.11g, Middle Channel(30MHz~1GHz)



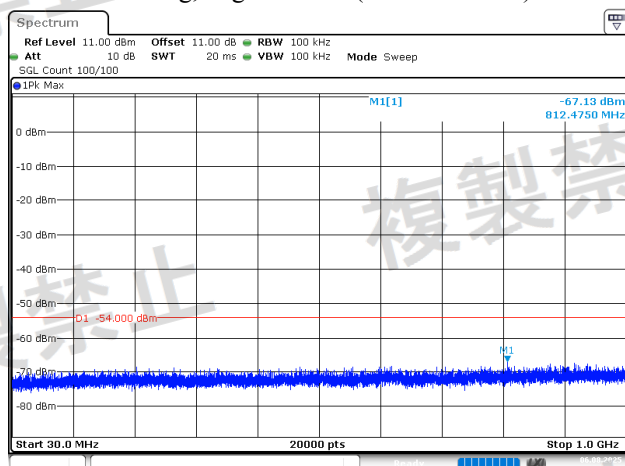
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Date: 6.AUG.2025 13:54:49

## 802.11g, Middle Channel(1GHz~12.5GHz)



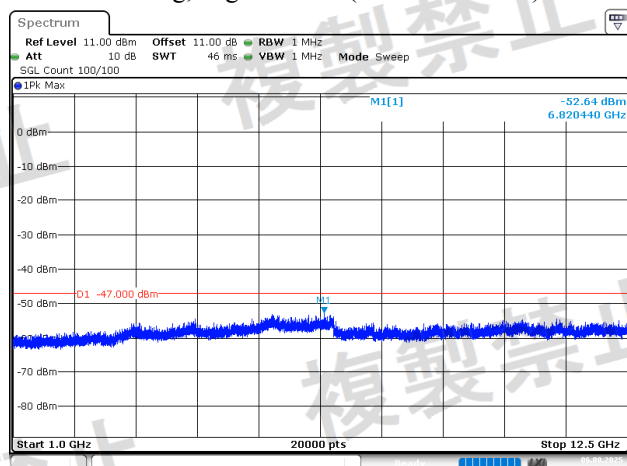
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Date: 6.AUG.2025 13:55:14

## 802.11g, High Channel(30MHz~1GHz)



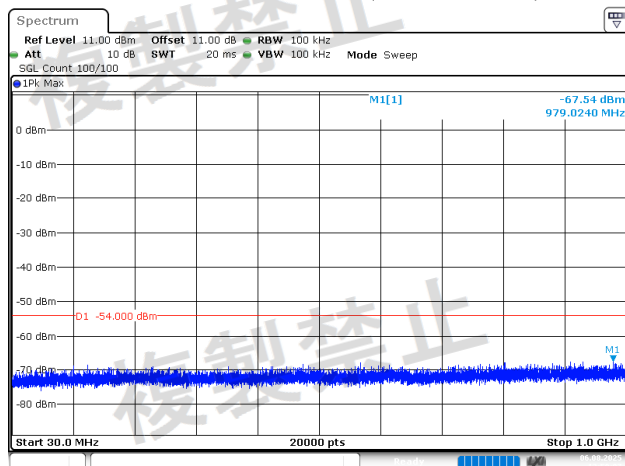
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Date: 6.AUG.2025 13:57:29

## 802.11g, High Channel(1GHz~12.5GHz)



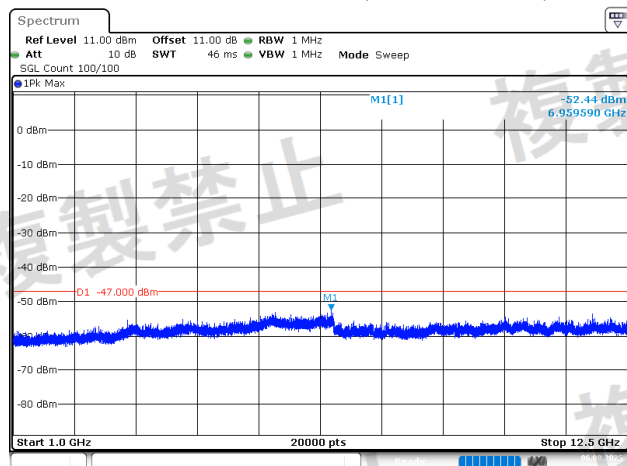
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Date: 6.AUG.2025 13:57:53

## 802.11n20, Low Channel(30MHz~1GHz)



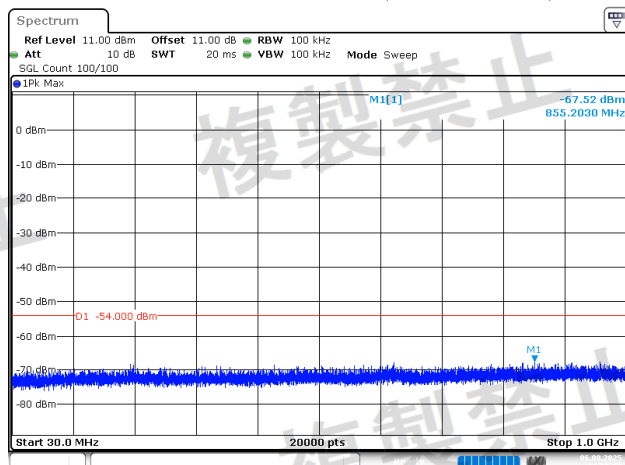
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Date: 6.AUG.2025 13:58:07

## 802.11n20, Low Channel(1GHz~12.5GHz)



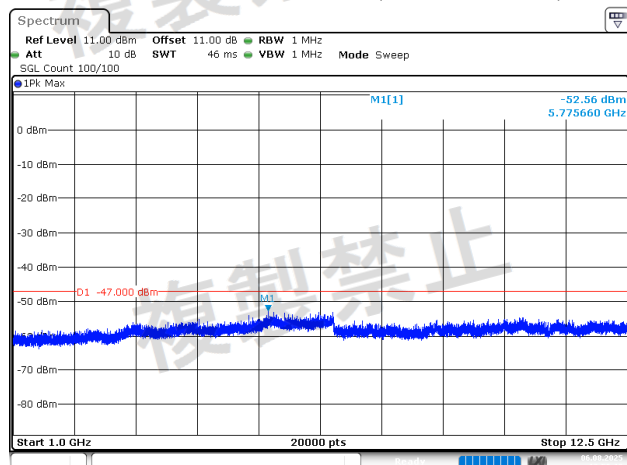
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Date: 6.AUG.2025 13:58:32

## 802.11n20, Middle Channel(30MHz~1GHz)



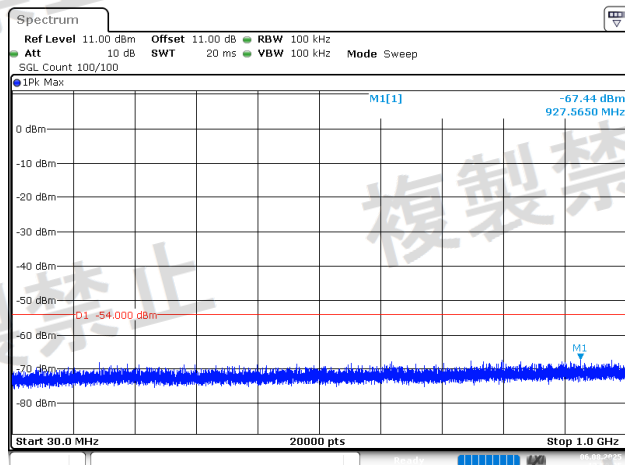
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Date: 6.AUG.2025 13:58:55

## 802.11n20, Middle Channel(1GHz~12.5GHz)



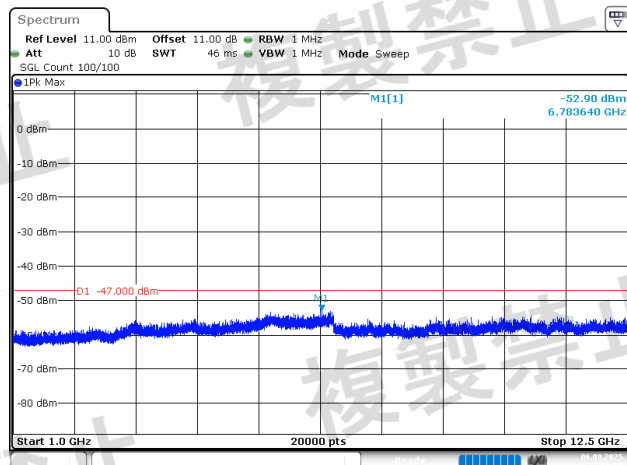
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 13:59:19

## 802.11n20, High Channel(30MHz~1GHz)



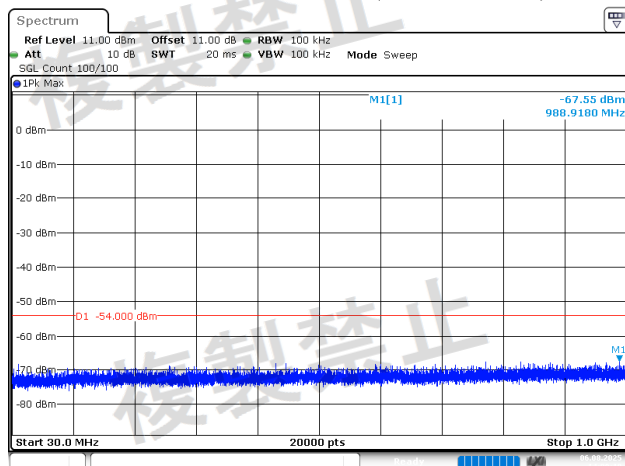
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 13:59:35

## 802.11n20, High Channel(1GHz~12.5GHz)



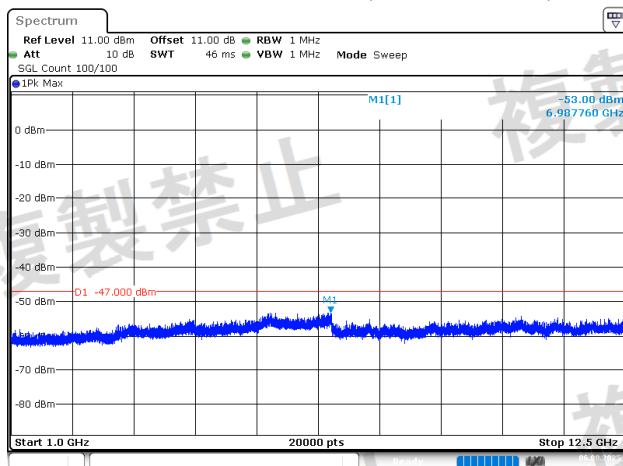
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 14:00:00

## 802.11ax20, Low Channel(30MHz~1GHz)



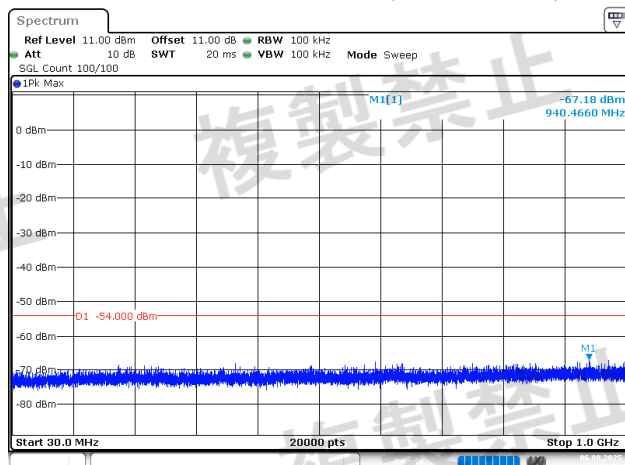
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 14:00:19

## 802.11ax20, Low Channel(1GHz~12.5GHz)



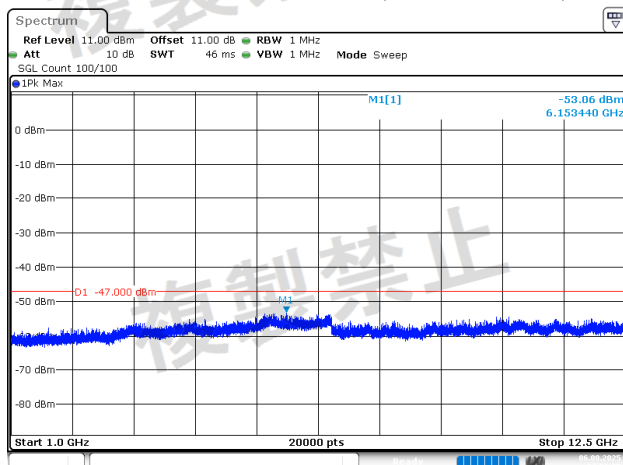
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 14:00:44

## 802.11ax20, Middle Channel(30MHz~1GHz)



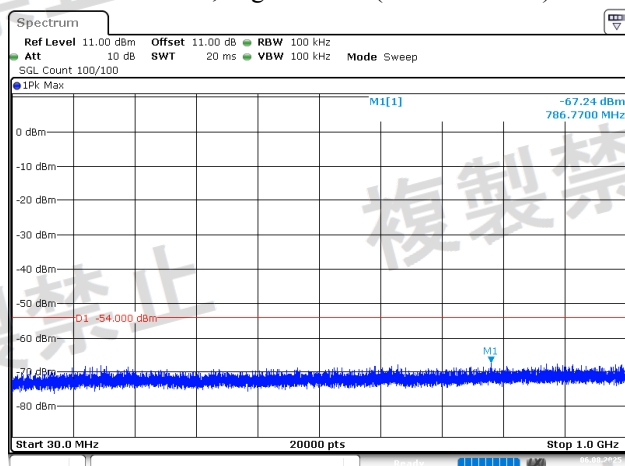
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 14:01:01

## 802.11ax20, Middle Channel(1GHz~12.5GHz)



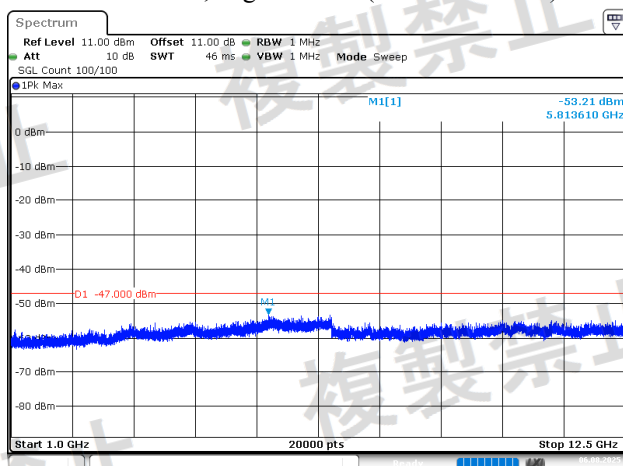
ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 14:01:25

## 802.11ax20, High Channel(30MHz~1GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 14:02:06

## 802.11ax20, High Channel(1GHz~12.5GHz)



ProjectNo.:2502Q45186E-RF Tester:Cooper Zhou  
Date: 6.AUG.2025 14:02:31

Note: Offset = Coaxial Attenuator (10dB) + Cable Loss (1dB)

\*\*\*END OF REPORT\*\*\*