

# TEST REPORT

Applicant Name: Shenzhen Creality Ecosystem Technology Co., Ltd  
Address: Room 1205, JinXiuHongDu Building, Meilong Blvd., Longhua  
Dist., Shenzhen, China, 518131  
Report Number: 2501U09444E-RF-07B

## Test Standard (s)

Item 19 of Article 2 Paragraph 1

## Sample Description

Product Type: Laser Cutter and Engraver  
Model No.: Creality Falcon A1 Pro  
Multiple Model(s) No.: N/A  
Trade Mark:   
Date Received: 2025-06-09  
Issue Date: 2025-09-10

|              |       |
|--------------|-------|
| Test Result: | Pass▲ |
|--------------|-------|

▲ In the configuration tested, the EUT complied with the standards above.

## Prepared and Checked By:

Ekko Wu

Ekko Wu  
RF Engineer

## Approved By:

Nancy Wang

Nancy Wang  
RF Supervisor

Note: The information marked \* is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.  
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## Bay Area Compliance Laboratories Corp. (Shenzhen)

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number      | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| 0               | 2501U09444E-RF-07B | Original Report         | 2025-09-10       |

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                             |                                 |                                                                                                |
|-----------------------------|---------------------------------|------------------------------------------------------------------------------------------------|
| <b>Technical Parameters</b> | <b>Support Technical</b>        | Wi-Fi                                                                                          |
|                             | <b>Mode</b>                     | 802.11b/g/n20/n40                                                                              |
|                             | <b>Modulation Type</b>          | DSSS, OFDM                                                                                     |
|                             | <b>Frequency Range</b>          | 2412-2472MHz                                                                                   |
|                             | <b>Rated Output Power</b>       | 802.11b: 6.20mW/MHz; 802.11g: 3.30mW/MHz;<br>802.11n20: 3.20mW/MHz; 802.11n40: 1.60mW/MHz      |
|                             | <b>Antenna Gain<sup>#</sup></b> | 3.5dBi (It is provided by the applicant)                                                       |
| <b>Nominal Power Supply</b> |                                 | DC 24V from adapter                                                                            |
| <b>Sample serial number</b> |                                 | 34PW-1 (Assigned by BACL, Shenzhen)                                                            |
| <b>Sample/EUT Status</b>    |                                 | Good condition                                                                                 |
| <b>Adapter Information</b>  |                                 | Model: GJ180WD-2400750W1<br>Input: AC 100-240V~50/60Hz, 2.5A<br>Output: DC 24.0V, 7.5A, 180.0W |
|                             |                                 |                                                                                                |

### Objective

The objective of the manufacturer is to demonstrate compliance with Radio Law of Japan item 19 of Article 2 Paragraph 1, rules and limits for this device including:

- Frequency Error
- Occupied Bandwidth and Spreading Bandwidth
- Transmitter Spurious Emission and Unwanted Emission Intensity
- Antenna Output Power And Output Power Tolerance
- Interference Prevention Function
- Receiver Spurious Emission Strength
- Carrier sense capability
- Construction Protection Confirmation

### Test Method

MIC Notice No.88 Appendix No.43

## Measurement Uncertainty

| Item                         | Expanded Measurement uncertainty       |
|------------------------------|----------------------------------------|
| Frequency Error              | 56.6Hz(k=2, 95% level of confidence)   |
| Occupied Channel Bandwidth   | 109.2kHz(k=2, 95% level of confidence) |
| RF output power, conducted   | 0.86dB(k=2, 95% level of confidence)   |
| Unwanted Emission, conducted | 1.60dB(k=2, 95% level of confidence)   |
| Duty Cycle                   | ±1%                                    |
| Temperature                  | ±1°C                                   |
| Supply voltages              | ±0.4%                                  |
| Humidity                     | ±1%                                    |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

Each test item follows test standards and with no deviation.

## EUT TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in an engineering mode which was selected by manufacturer.

For 2.4G band, 13 channels are provided to test:

| 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 802.11b/g/n20 mode, channel 1, 7 and 13 were tested.

For 802.11n40 mode, channel 3, 7 and 11 were tested.

### Normal/Extreme Voltage Condition<sup>#</sup>

|    |                |                    |
|----|----------------|--------------------|
| NV | Normal Voltage | 100V <sub>AC</sub> |
| LV | Low Voltage    | 90V <sub>AC</sub>  |
| HV | High Voltage   | 110V <sub>AC</sub> |

Note: extreme voltage test conditions were declared by manufacturer.

The EUT work with an adapter, power deviation of the adapter output is less than 1% when extreme voltage supplied, therefore the test only performed at normal condition. Details as following:

| Voltage Condition | Input (V <sub>AC</sub> ) | RF System Voltage (V <sub>DC</sub> ) |
|-------------------|--------------------------|--------------------------------------|
| NV                | 100                      | 24                                   |
| LV                | 90                       | 24                                   |
| HV                | 110                      | 24                                   |

### EUT Exercise Software

| Exercise Software <sup>#</sup> |           | CMD                      |                |              |
|--------------------------------|-----------|--------------------------|----------------|--------------|
| Mode                           | Data rate | Power Level <sup>#</sup> |                |              |
|                                |           | Low Channel              | Middle Channel | High Channel |
| 802.11b                        | 1Mbps     | 70                       | 70             | 70           |
| 802.11g                        | 6Mbps     | 120                      | 120            | 120          |
| 802.11n20                      | MCS0      | 120                      | 120            | 120          |
| 802.11n40                      | MCS0      | 120                      | 120            | 120          |

Note: The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the power across all data rates bandwidths, and modulations.

### Equipment Modifications

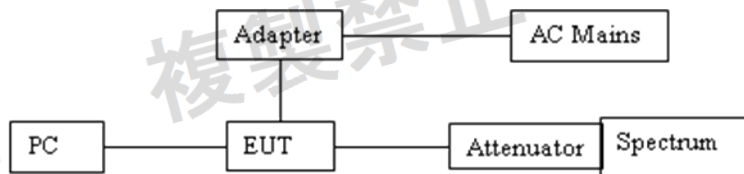
No modification was made to the EUT tested.

**Support Equipment List and Details**

| Manufacturer | Description               | Model          | Serial Number |
|--------------|---------------------------|----------------|---------------|
| DELL         | PC                        | Latitude E5430 | JG3NLV1       |
| HIKVISION    | Router                    | DS-3WR03       | 10021642429   |
| HELLVIAO     | Contact voltage regulator | TDGC2-5KVA     | Unknown       |
| Fluke        | Digital Multimeter        | 287            | 19000011      |

**External I/O Cable**

| Cable Description               | Length(m) | From/Port | To       |
|---------------------------------|-----------|-----------|----------|
| Unshielded Detachable AC cable  | 1.2       | Adapter   | AC Mains |
| Shielded Un-detachable DC cable | 1.5       | Adapter   | EUT      |
| Unshielded Detachable USB cable | 1.0       | EUT       | PC       |

**Configuration of Test Setup**

**SUMMARY OF TEST RESULTS**

| MIC Notice No.88 Appendix No.43<br>Article 2, Paragraph 1, Item 19 | Description of Test                                           | Result          |
|--------------------------------------------------------------------|---------------------------------------------------------------|-----------------|
| 1                                                                  | Frequency Error                                               | Compliant       |
| 2                                                                  | Occupied Bandwidth and Spreading 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                                                                  | Transmission Antenna Gain                                     | Not Applicable  |
| 7                                                                  | Carrier sense capability                                      | Compliant       |
| 8                                                                  | Transmission Radiation Angle Width                            | Not Applicable  |
| 9                                                                  | Frequency Hopping Dwell Time                                  | Not Applicable* |
| 10                                                                 | Interference Prevention Function                              | Compliant       |
| 11                                                                 | Construction Protection Confirmation                          | Compliant       |

Not Applicable - This test item was not required for the output power less than 12.14 dBm/MHz (E.I.R.P) for 20MHz system and 9.13dBm/MHz (E.I.R.P) for 40MHz system.

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

**TEST EQUIPMENT LIST**

| Manufacturer  | Description                         | Model   | Serial Number | Calibration Date | Calibration Due Date | Calibration Authority | Calibration Method |
|---------------|-------------------------------------|---------|---------------|------------------|----------------------|-----------------------|--------------------|
| Rohde&Schwarz | Spectrum Analyzer                   | FSV40-N | 102259        | 2024/12/04       | 2025/12/03           | BACL Cal              | c)                 |
| Keysight      | MXG Vector Signal Generator         | N5182B  | MY53051503    | 2024/12/04       | 2025/12/03           | BACL Cal              | c)                 |
| Rohde&Schwarz | Wideband Radio Communication Tester | CMW500  | 141718        | 2024/08/06       | 2025/08/05           | BACL Cal              | c)                 |
| Unknown       | 10dB Attenuator                     | Unknown | F-03-EM065    | 2025/06/26       | 2026/06/25           | BACL                  | d)                 |
| HP            | Power Splitter                      | 11667A  | 1610A         | 2025/06/26       | 2026/06/25           | BACL                  | d)                 |
| Unknown       | RF Cable                            | 65475   | 01670515      | 2025/06/26       | 2026/06/25           | BACL                  | d)                 |

Note: Calibration Method

a) Calibration conducted by the National Institute of Information and Communications Technology (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) ~Japan Calibration Service System~

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 other equipment that listed above from a) to c)

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

## REQUIREMENTS AND TEST PROCEDURES

### Frequency Error

#### Limit

50 ppm or below

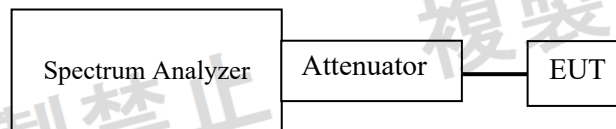
#### Test Procedure

Set the EUT to the measurement frequency without modulation.

Setting of SA is following as: RB: 10 kHz / VB: 10 kHz / 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.



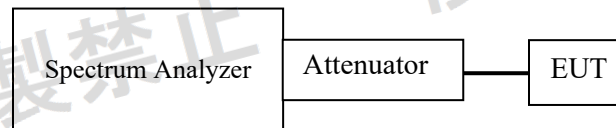
## Occupied Bandwidth and Spread Bandwidth

### Limit

- Occupied bandwidth: FH $\leq$ 83.5 MHz; DS:  $\leq$ 26 MHz; OFDM:  $\leq$ 26 MHz &  $26 \leq$  OBW  $\leq$ 40 MHz, Others $\leq$ 26 MHz
- Spread Bandwidth:  $\geq$  500 kHz (FH, DS), Spread factor $>$ 5.

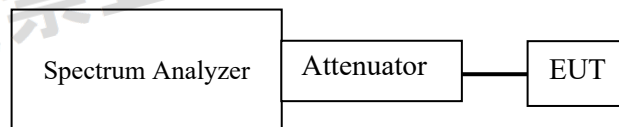
### Test Procedure

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 occupied bandwidth to measure occupied bandwidth.
3. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 90% of occupied bandwidth to measure spread bandwidth.
4. Spread Factor=Spread Bandwidth/modulation rate. The modulation rate: MR=1.375 for 802.11b



**Transmitter spurious emission strength and unwanted emission intensity****Limit**

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

**Test Procedure****Measurement System Diagram****Conditions of Application Equipment (EUT)**

- The modulation state shall be in continuously transmitting mode.

**Spectrum Analyzer Conditions**

- Span: Measuring Frequency Range
- RBW: 1MHz (frequency range; 1GHz over), 100kHz (frequency range; 30MHz to 1GHz)
- VBW: Same as RBW (1MHz or 100kHz)
- Sweep time: Auto (Minimum time to ensure measurement accuracy.)
- Data points : 400 points or more
- Reference level: Enough level for maximum dynamic range
- Detection: Positive Peak

If the measured value is under the technical standard value, do not need to measure more detail.

## Antenna Output Power and Antenna Power Tolerance

### Limit

- $\leq 3 \text{ mW /MHz}$  (FHSS from 2402-2480 MHz)
- $\leq 10 \text{ mW/MHz}$  (OFDM(20MHz system), DSSS from 2400-2483.5 MHz)
- $\leq 5 \text{ mW/MHz}$  (OFDM(40MHz system) from 2400-2483.5 MHz)
- $\leq 10 \text{ mW}$  (other from 2400-2483.5 MHz)

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

### E.i.r.p:

- $\leq 12.14 \text{ dBm/MHz}$  (OFDM(20MHz system), DSSS from 2400-2483.5 MHz)
- $\leq 9.13 \text{ dBm/MHz}$  (OFDM(40MHz system) from 2400-2483.5 MHz)

### Test Procedure

For FHSS UUT:

Connect the UUT to the spectrum analyzer and use the following settings:

- Frequency to measure (2402 MHz, 2441 MHz, and 2480 MHz)
- RBW : 1 MHz
- VBW : 1 MHz
- Span: Wide enough to cover the complete power envelope of the signal of the UUT.
- Detector: Average (see note).
- Trace Mode: Max Hold.

For OFDM, DSSS UUT:

Step 1:

Connect the UUT to the spectrum analyzer and use the following settings:

- Centre Frequency: The centre frequency of the channel under test.
- RBW: 1 MHz.
- VBW: 1 MHz.
- Span: Wide enough to cover the complete power envelope of the signal of the UUT.
- Detector: Peak.
- Trace Mode: Max Hold.

Step 2:

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

Step 3:

Make the following changes to the settings of the spectrum analyzer:

- Measurement Mode: Time Domain Power
- Centre Frequency: Equal to the frequency recorded in step 2.
- Span: Zero Span.
- Resolution BW: 1 MHz.
- Video BW: 1 MHz.
- Sweep Mode: Single.
- Detector: Sample.
- Trace Mode: Clear Write.

For other UUT:

Make the following changes to the settings of the spectrum analyser:

- Centre Frequency: The centre frequency of the channel under test.
- Span: 5MHz.
- RBW: 3 MHz.
- VBW: 10 MHz.
- Detector: Peak
- Trace Mode: Max Hold.

NOTE: The detector mode "Average" is often referred to as "RMS Average" or "Sample" but do not use Video Average.

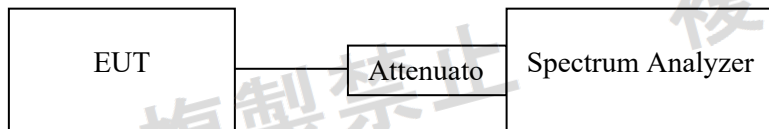
When the trace is complete, use the time domain power function of the analyzer measure the mean power average across one pulse on period, this level is recorded as D.

D shall be recorded in the test report.

The maximum PD, which is e.i.r.p. PSD (spectral density power) or power, is calculated from the above measured value 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.

$$PD = D + G$$

#### Test Setup Block diagram



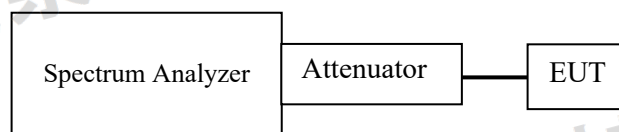
## Receiver Spurious Emission and Unwanted Emission Intensity

### 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

#### Measurement System Diagram



#### 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 or 1GHz)
- Stop Frequency: Stop Frequency of frequency range to measure (1GHz or 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

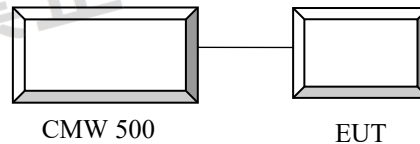
## Interference Prevention Function

### Requirement

The EUT shall have the interference prevention capability to transmit or to receive the identification automatically, so that sender and receiver shall exclude other equipment.

### Test Procedure

#### Measurement System Diagram



In the case that the EUT has the function of automatically transmitting the identification code:

1. Transmit the predetermined identification codes from EUT
2. Check the transmitted identification codes with the demodulator.

In the case of receiving the identification codes:

1. Transmit the predetermined identification codes from the counterpart.
2. Check if communication is normal
3. Transmit the signal other than predetermined ID codes from the counterpart.
4. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

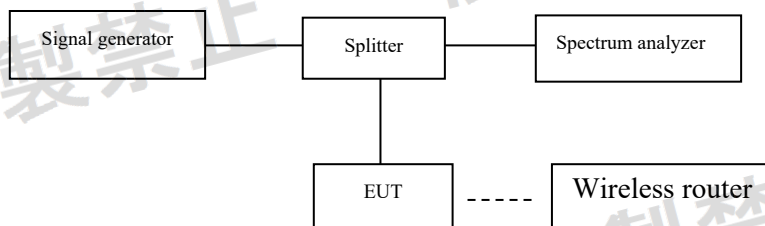
## Carrier Sensing Function

### Limit

EUT stop RF transmission signal after carrier inject to EUT

### Test Procedure

Measurement System Diagram



### Conditions of Application Equipment (EUT)

- The EUT state shall be “normal mode link with wireless router”.

### Test Procedure

- SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG.
- Turn off the RF signal of the SG.
- EUT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA: RBW/VBW=1MHz/1MHz, Span=50MHz, Sweep time=auto, Sweep mode=continuous, Detect mode=positive peak
- SG RF signal on.
- EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous transmitted signal.

## TEST DATA AND RESULTS

### Frequency Error

#### Test Information:

|             |                    |              |                       |
|-------------|--------------------|--------------|-----------------------|
| Sample No.: | 34PW-1             | Test Date:   | 2025/07/05~2025/07/06 |
| Test Site:  | RF                 | Test Mode:   | Transmitting          |
| Tester:     | Kungfumaster Liang | Test Result: | Pass                  |

#### Environmental Conditions:

|                      |           |                              |       |                        |             |
|----------------------|-----------|------------------------------|-------|------------------------|-------------|
| Temperature:<br>(°C) | 24.5-25.8 | Relative<br>Humidity:<br>(%) | 52-57 | ATM Pressure:<br>(kPa) | 101.1-101.7 |
|----------------------|-----------|------------------------------|-------|------------------------|-------------|

#### Test Condition: NV

| Mode      | Channel | F <sub>c</sub><br>(MHz) | F <sub>L</sub><br>(MHz) | F <sub>H</sub><br>(MHz) | F <sub>0</sub><br>(MHz) | Result<br>(ppm) | Limit<br>(ppm) | Verdict |
|-----------|---------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------|----------------|---------|
| 802.11b   | Low     | 2412                    | 2406.8148               | 2417.1451               | 2411.9800               | -8.29           | ± 50           | Pass    |
|           | Middle  | 2442                    | 2436.9349               | 2447.0250               | 2441.9800               | -8.19           | ± 50           | Pass    |
|           | High    | 2472                    | 2466.8949               | 2477.1051               | 2472.0000               | 0.00            | ± 50           | Pass    |
| 802.11g   | Low     | 2412                    | 2403.6517               | 2420.3083               | 2411.9800               | -8.29           | ± 50           | Pass    |
|           | Middle  | 2442                    | 2433.6517               | 2450.3083               | 2441.9800               | -8.19           | ± 50           | Pass    |
|           | High    | 2472                    | 2463.6517               | 2480.3083               | 2471.9800               | -8.09           | ± 50           | Pass    |
| 802.11n20 | Low     | 2412                    | 2403.0511               | 2420.9089               | 2411.9800               | -8.29           | ± 50           | Pass    |
|           | Middle  | 2442                    | 2433.0511               | 2450.9089               | 2441.9800               | -8.19           | ± 50           | Pass    |
|           | High    | 2472                    | 2463.0511               | 2480.9089               | 2471.9800               | -8.09           | ± 50           | Pass    |
| 802.11n40 | Low     | 2422                    | 2403.6216               | 2440.3784               | 2422.0000               | 0.00            | ± 50           | Pass    |
|           | Middle  | 2442                    | 2423.6216               | 2460.2983               | 2441.9600               | -16.38          | ± 50           | Pass    |
|           | High    | 2462                    | 2443.6216               | 2480.2983               | 2461.9600               | -16.25          | ± 50           | Pass    |

Note:

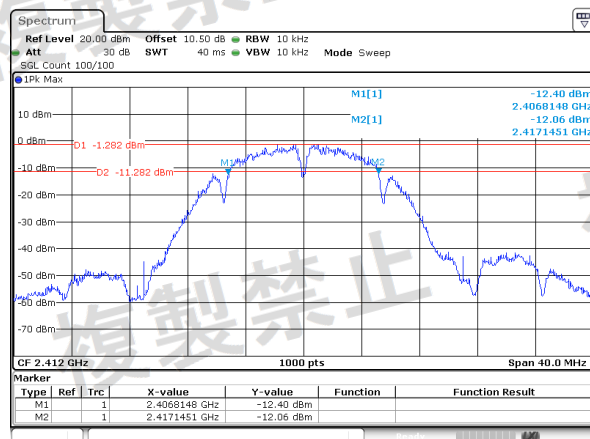
Tolerance =  $(F_0 - F_c)/F_c \times 10^6$ , where  $F_0 = (F_L + F_H)/2$

F<sub>L</sub> is the lower edge of the 10dBc center frequency

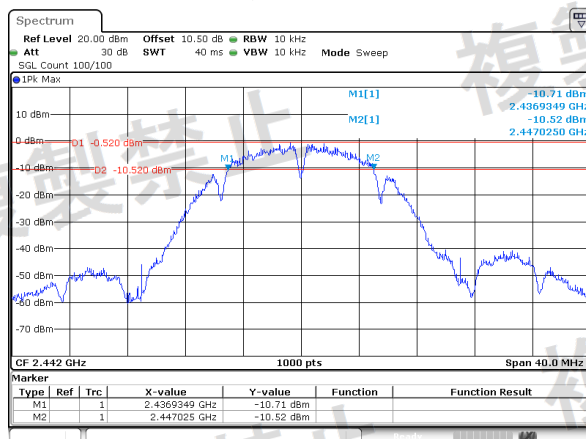
F<sub>H</sub> is the upper edge of the 10dBc center frequency

## Test Condition: NV

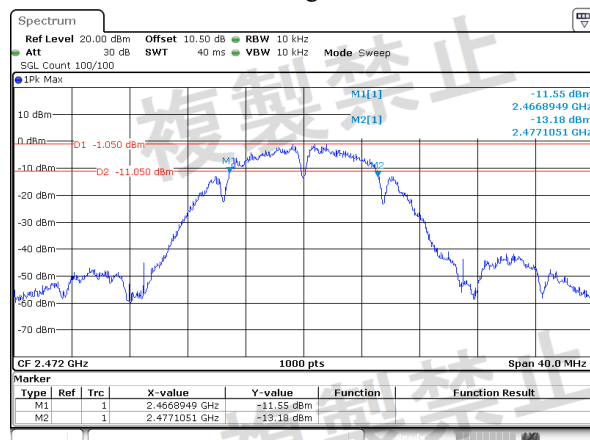
## 802.11b, Low Channel



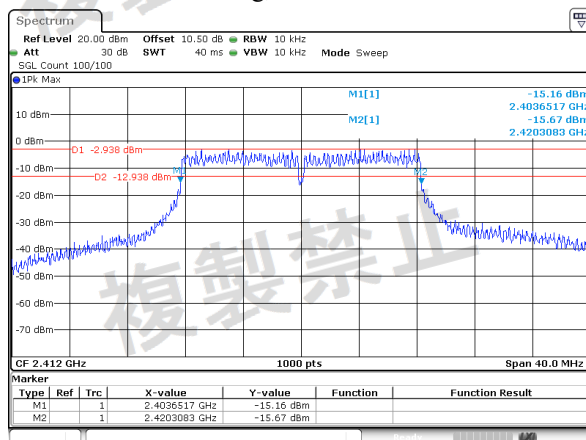
## 802.11b, Middle Channel



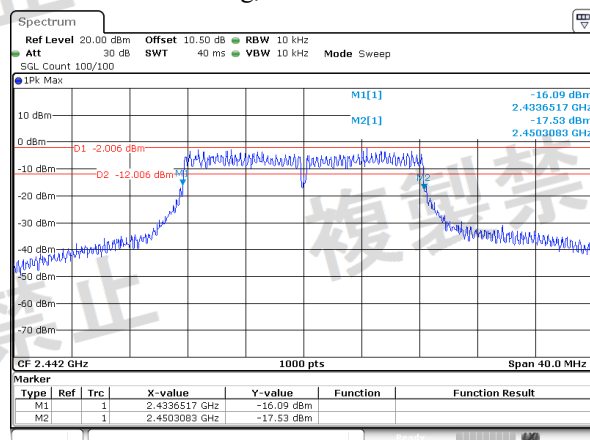
## 802.11b, High Channel



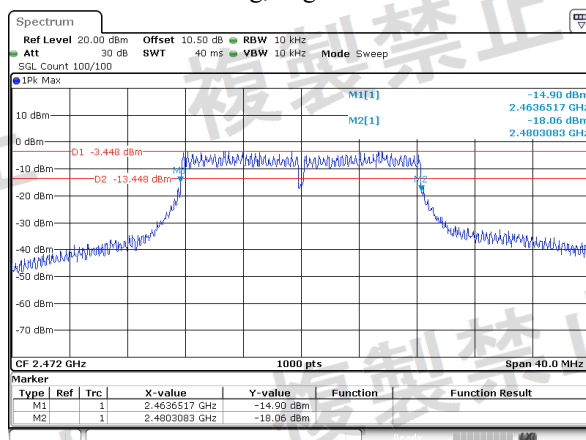
## 802.11g, Low Channel



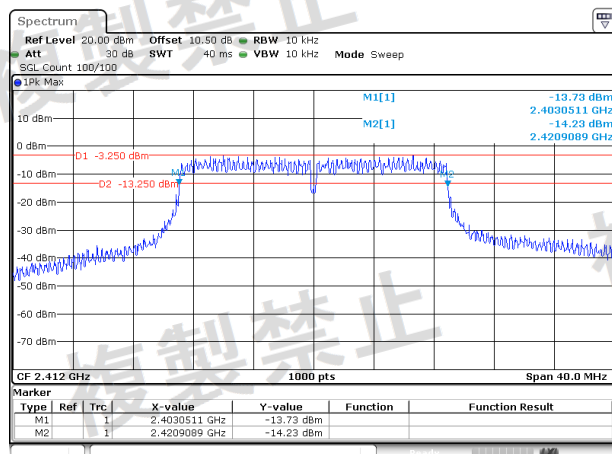
## 802.11g, Middle Channel



## 802.11g, High Channel

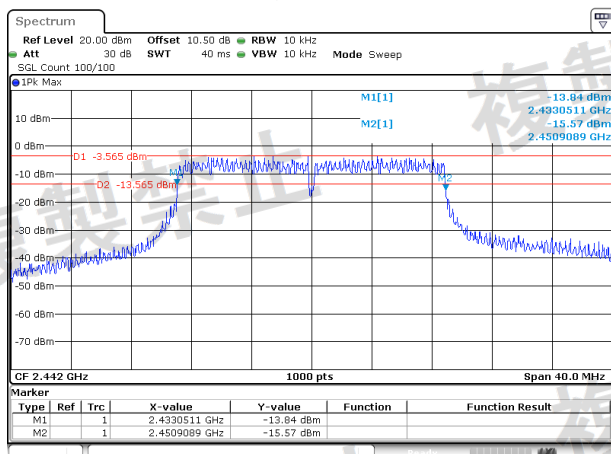


## 802.11n20, Low Channel



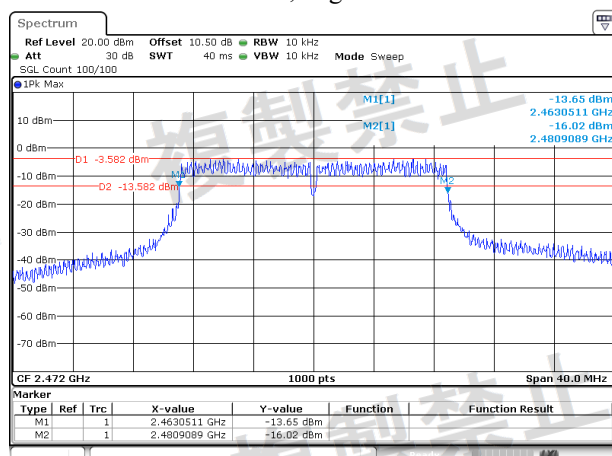
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:20:27

## 802.11n20, Middle Channel



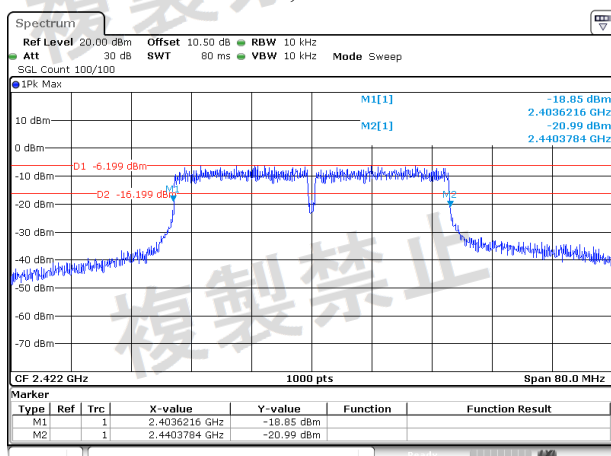
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:23:29

## 802.11n20, High Channel



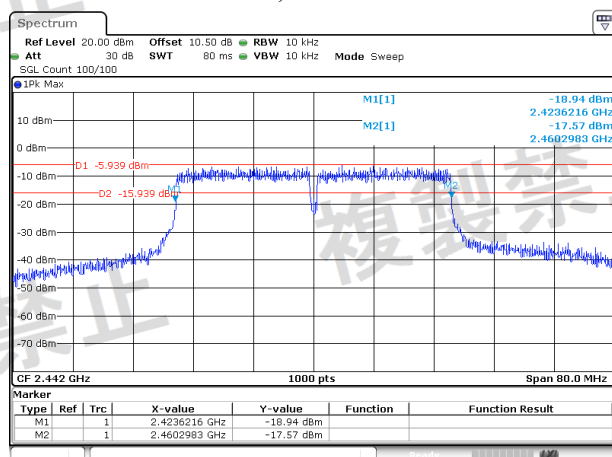
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:33:21

## 802.11n40, Low Channel



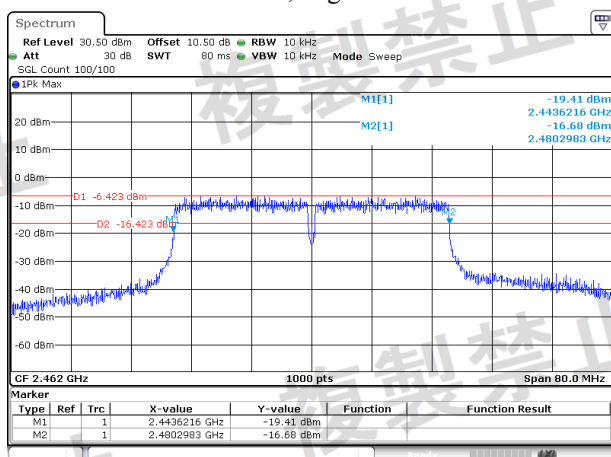
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:45:24

## 802.11n40, Middle Channel



ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:54:19

## 802.11n40, High Channel



ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:01:15

**Occupied Bandwidth and Spreading Bandwidth****Test Information:**

|                    |                    |                     |                       |
|--------------------|--------------------|---------------------|-----------------------|
| <b>Sample No.:</b> | 34PW-1             | <b>Test Date:</b>   | 2025/07/05~2025/07/06 |
| <b>Test Site:</b>  | RF                 | <b>Test Mode:</b>   | Transmitting          |
| <b>Tester:</b>     | Kungfumaster Liang | <b>Test Result:</b> | Pass                  |

**Environmental Conditions:**

|                             |           |                                  |       |                               |             |
|-----------------------------|-----------|----------------------------------|-------|-------------------------------|-------------|
| <b>Temperature:</b><br>(°C) | 24.5-25.8 | <b>Relative Humidity:</b><br>(%) | 52-57 | <b>ATM Pressure:</b><br>(kPa) | 101.1-101.7 |
|-----------------------------|-----------|----------------------------------|-------|-------------------------------|-------------|

**Test Condition: NV**

| Mode      | Occupied bandwidth (MHz) |                |              | Limit(MHz) | Verdict |
|-----------|--------------------------|----------------|--------------|------------|---------|
|           | Low Channel              | Middle Channel | High Channel |            |         |
| 802.11b   | 12.84                    | 12.84          | 12.92        | ≤ 26       | Pass    |
| 802.11g   | 17.00                    | 16.96          | 16.92        | ≤ 26       | Pass    |
| 802.11n20 | 18.00                    | 17.96          | 17.92        | ≤ 26       | Pass    |
| 802.11n40 | 36.48                    | 36.40          | 36.32        | 26~40      | Pass    |

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

| Test Items                | Low Channel | Middle Channel | High Channel | Limit | Verdict |
|---------------------------|-------------|----------------|--------------|-------|---------|
| Spreading bandwidth (MHz) | 8.64        | 8.64           | 8.64         | ≥ 0.5 | Pass    |
| Spreading Factor          | 6.28        | 6.28           | 6.28         | ≥ 5   | Pass    |

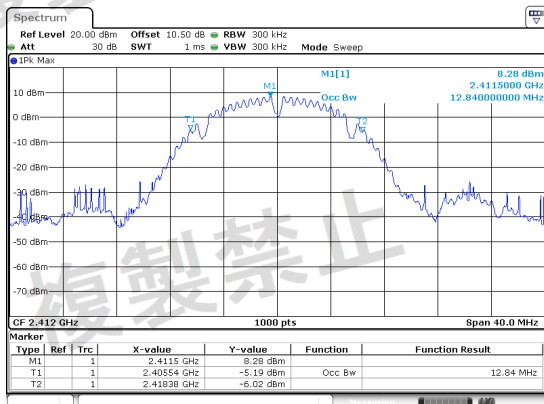
Note1: Spread factor = spread bandwidth/modulation rate

Note2: Modulation rate: 802.11b = 1.375

## Test Condition: NV

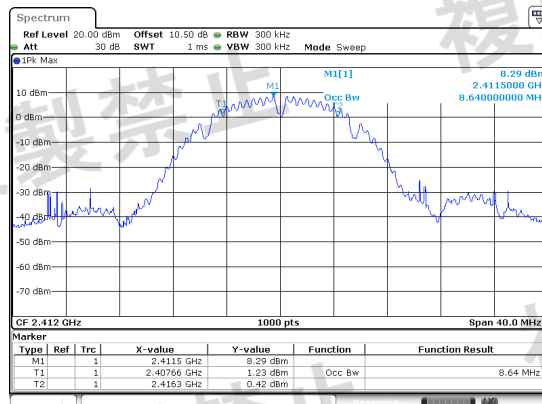
## 802.11b, Low Channel

## Occupied Bandwidth



ProjectNo.:2501U09444E-RF Tester:Kungfumanter Liang  
Date: 5.JUL.2025 23:35:25

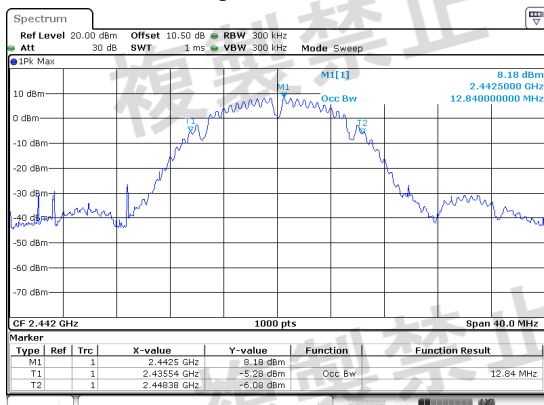
## Spreading Bandwidth



ProjectNo.:2501U09444E-RF Tester:Kungfumanter Liang  
Date: 5.JUL.2025 23:35:49

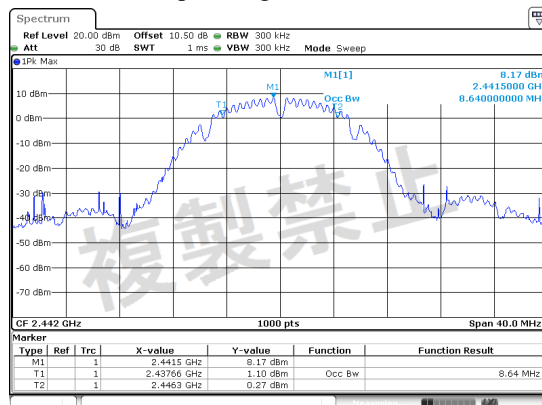
## 802.11b, Middle Channel

## Occupied Bandwidth



ProjectNo.:2501U09444E-RF Tester:Kungfumanter Liang  
Date: 5.JUL.2025 23:43:07

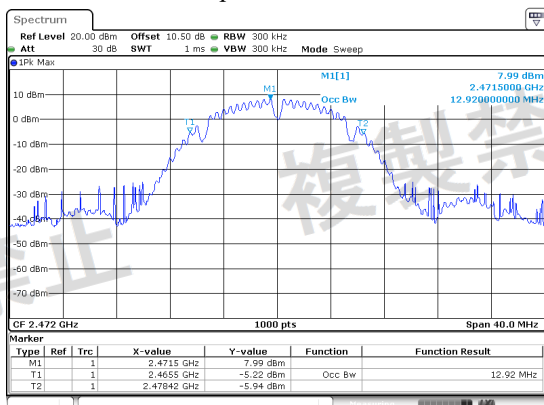
## Spreading Bandwidth



ProjectNo.:2501U09444E-RF Tester:Kungfumanter Liang  
Date: 5.JUL.2025 23:43:31

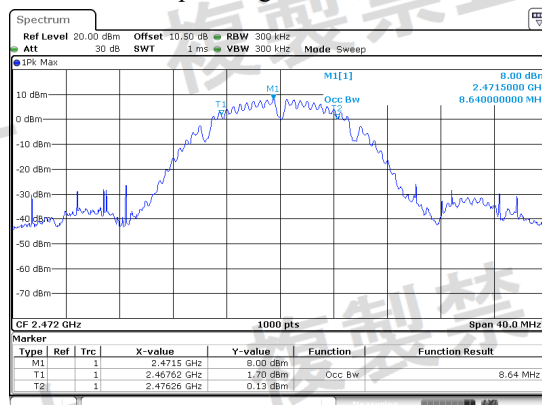
## 802.11b, High Channel

## Occupied Bandwidth



ProjectNo.:2501U09444E-RF Tester:Kungfumanter Liang  
Date: 5.JUL.2025 23:50:35

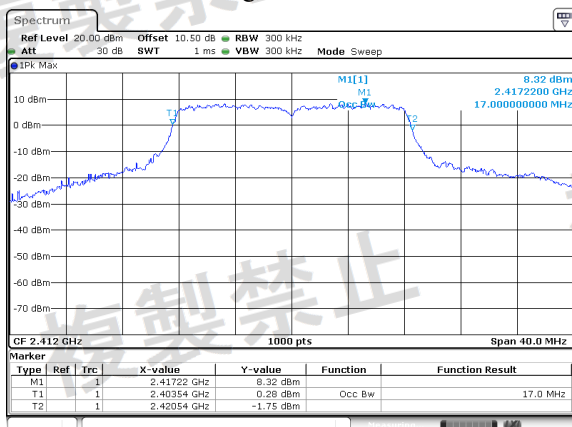
## Spreading Bandwidth



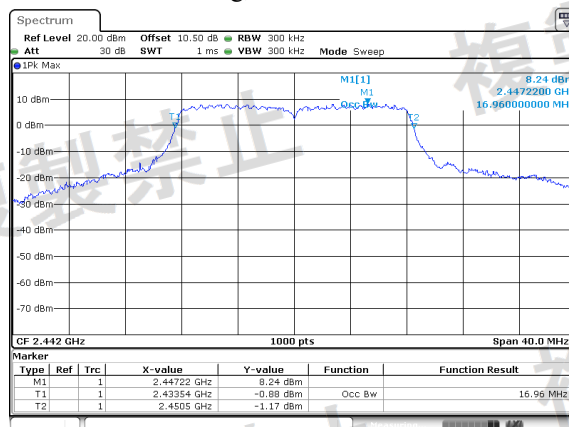
ProjectNo.:2501U09444E-RF Tester:Kungfumanter Liang  
Date: 5.JUL.2025 23:50:59

## Occupied Bandwidth

802.11g, Low Channel

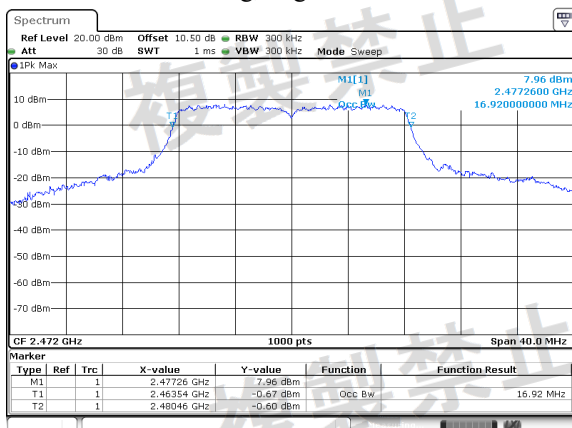


802.11g, Middle Channel

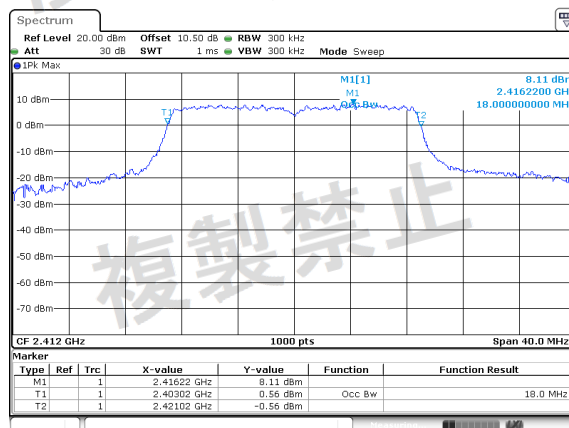


## Occupied Bandwidth

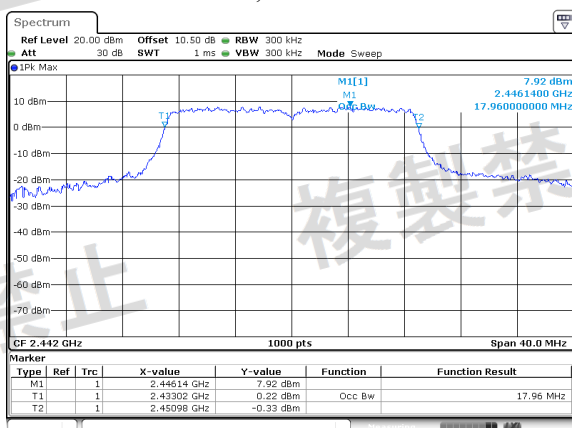
802.11g, High Channel



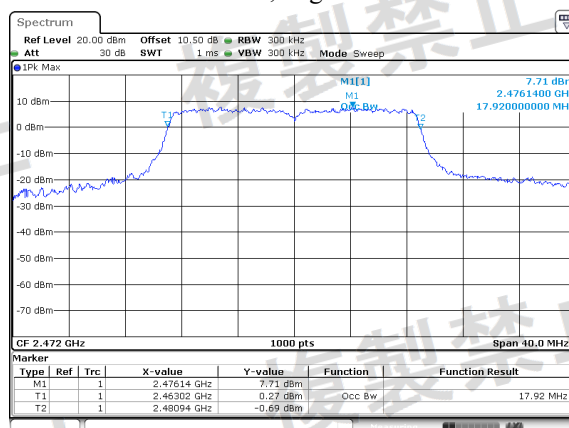
802.11n20, Low Channel



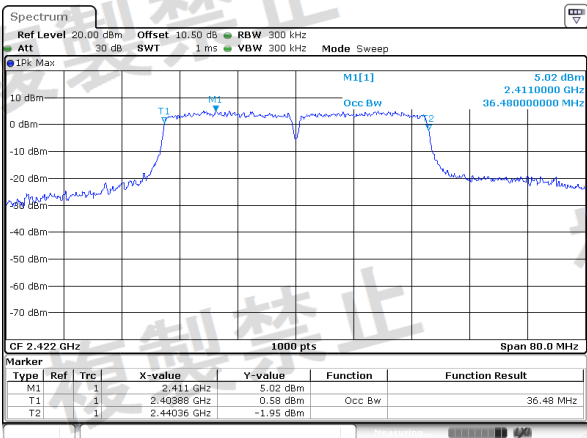
802.11n20, Middle Channel



802.11n20, High Channel

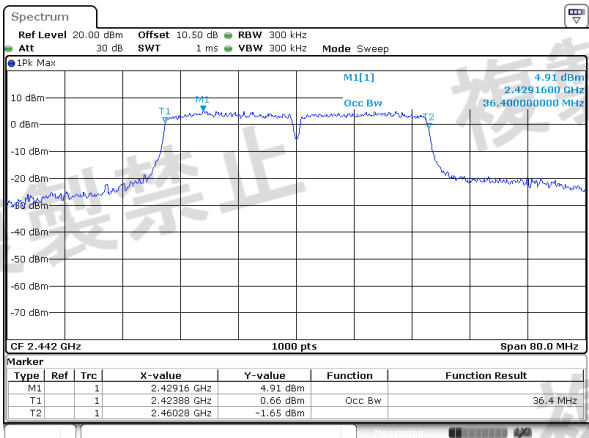


802.11n40, Low Channel



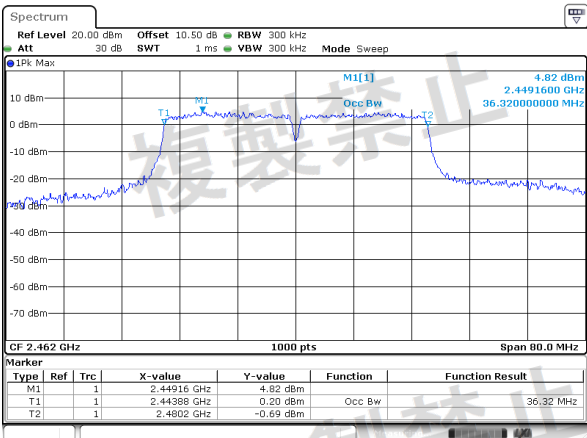
ProjectNo.:2501U09444E-RF Tester:Kungfumaister Liang  
Date: 6.JUL.2025 00:45:49

802.11n40, Middle Channel



ProjectNo.:2501U09444E-RF Tester:Kungfumaister Liang  
Date: 6.JUL.2025 00:54:50

802.11n40, High Channel



ProjectNo.:2501U09444E-RF Tester:Kungfumaister Liang  
Date: 6.JUL.2025 01:01:51

**Transmitter Spurious Emission Strength****Test Information:**

|                    |                    |                     |                       |
|--------------------|--------------------|---------------------|-----------------------|
| <b>Sample No.:</b> | 34PW-1             | <b>Test Date:</b>   | 2025/07/05~2025/07/06 |
| <b>Test Site:</b>  | RF                 | <b>Test Mode:</b>   | Transmitting          |
| <b>Tester:</b>     | Kungfumaster Liang | <b>Test Result:</b> | Pass                  |

**Environmental Conditions:**

|                             |           |                                  |       |                               |             |
|-----------------------------|-----------|----------------------------------|-------|-------------------------------|-------------|
| <b>Temperature:</b><br>(°C) | 24.5-25.8 | <b>Relative Humidity:</b><br>(%) | 52-57 | <b>ATM Pressure:</b><br>(kPa) | 101.1-101.7 |
|-----------------------------|-----------|----------------------------------|-------|-------------------------------|-------------|

**Test Condition: NV****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       | 917.79                    | -46.05           | 0.025           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2201.49                   | -38.59           | 0.138           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2398.6513                 | -17.95           | 16.032          | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2495.2033                 | -37.94           | 0.161           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 4824.8                    | -29.67           | 1.079           | 2.50           | Pass    |
| Middle  | Band I (100kHz) | 30              | 1000       | 976.96                    | -46.85           | 0.021           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2282.63                   | -38.37           | 0.146           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2394.9333                 | -30.76           | 0.839           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2490.7573                 | -30.38           | 0.916           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 4884.8                    | -30.94           | 0.805           | 2.50           | Pass    |
| High    | Band I (100kHz) | 30              | 1000       | 946.89                    | -47.37           | 0.018           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2314.53                   | -38.09           | 0.155           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2398.3653                 | -32.25           | 0.596           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2483.8608                 | -17.47           | 17.906          | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 4944.9                    | -33.78           | 0.419           | 2.50           | Pass    |

**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       | 571.02                    | -46.50           | 0.022           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2386.65                   | -32.16           | 0.608           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2399.5418                 | -26.62           | 2.176           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2486.7013                 | -28.22           | 1.507           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 7240.7                    | -33.84           | 0.413           | 2.50           | Pass    |
| Middle  | Band I (100kHz) | 30              | 1000       | 852.8                     | -46.94           | 0.020           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2279.16                   | -37.46           | 0.179           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2391.7093                 | -29.59           | 1.099           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2495.1318                 | -27.73           | 1.687           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 7325.7                    | -32.50           | 0.562           | 2.50           | Pass    |
| High    | Band I (100kHz) | 30              | 1000       | 707.3                     | -47.09           | 0.020           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2316.61                   | -37.69           | 0.170           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2393.7308                 | -33.25           | 0.473           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2485.1348                 | -24.29           | 3.728           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 7425.7                    | -34.90           | 0.324           | 2.50           | Pass    |

## 802.11n20

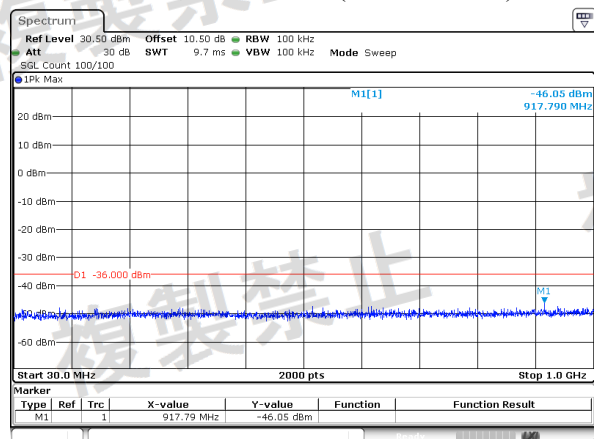
| Channel | Test Band (RBW) | Frequency Range |            | Max.Emission Located(MHz) | Result (dBm/RBW) | Result (μW/RBW) | Limit (μW/RBW) | Verdict |
|---------|-----------------|-----------------|------------|---------------------------|------------------|-----------------|----------------|---------|
|         |                 | Start (MHz)     | Stop (MHz) |                           |                  |                 |                |         |
| Low     | Band I (100kHz) | 30              | 1000       | 966.29                    | -47.08           | 0.020           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2386.65                   | -32.48           | 0.565           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2399.7563                 | -25.80           | 2.632           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2494.1698                 | -38.41           | 0.144           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 7235.7                    | -33.79           | 0.417           | 2.50           | Pass    |
| Middle  | Band I (100kHz) | 30              | 1000       | 838.25                    | -46.69           | 0.021           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2276.39                   | -37.79           | 0.166           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2396.6363                 | -33.10           | 0.490           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2490.4908                 | -25.27           | 2.972           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 7325.7                    | -33.07           | 0.494           | 2.50           | Pass    |
| High    | Band I (100kHz) | 30              | 1000       | 372.65                    | -46.45           | 0.023           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2317.3                    | -38.41           | 0.144           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2392.3138                 | -29.21           | 1.199           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2484.7513                 | -24.03           | 3.951           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 7410.7                    | -33.41           | 0.456           | 2.50           | Pass    |

## 802.11n40

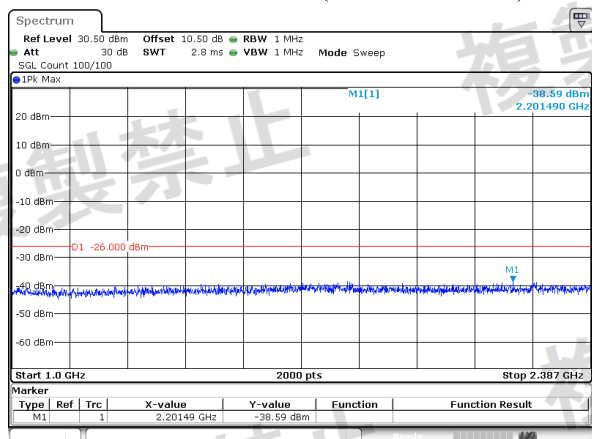
| Channel | Test Band (RBW) | Frequency Range |            | Max.Emission Located(MHz) | Result (dBm/RBW) | Result (μW/RBW) | Limit (μW/RBW) | Verdict |
|---------|-----------------|-----------------|------------|---------------------------|------------------|-----------------|----------------|---------|
|         |                 | Start (MHz)     | Stop (MHz) |                           |                  |                 |                |         |
| Low     | Band I (100kHz) | 30              | 1000       | 958.05                    | -46.54           | 0.022           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2381.8                    | -36.06           | 0.248           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2399.9123                 | -27.26           | 1.879           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2487.6698                 | -27.33           | 1.849           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 7270.7                    | -36.47           | 0.225           | 2.50           | Pass    |
| Middle  | Band I (100kHz) | 30              | 1000       | 248.01                    | -47.30           | 0.019           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2386.65                   | -36.65           | 0.216           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2398.8073                 | -22.84           | 5.200           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2486.0513                 | -17.08           | 19.588          | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 7330.7                    | -26.09           | 2.460           | 2.50           | Pass    |
| High    | Band I (100kHz) | 30              | 1000       | 619.52                    | -46.25           | 0.024           | 0.25           | Pass    |
|         | Band II (1MHz)  | 1000            | 2387       | 2310.37                   | -38.16           | 0.153           | 2.50           | Pass    |
|         | Band III (1MHz) | 2387            | 2400       | 2398.4953                 | -32.88           | 0.515           | 25             | Pass    |
|         | Band IV (1MHz)  | 2483.5          | 2496.5     | 2483.5098                 | -24.87           | 3.261           | 25             | Pass    |
|         | Band V (1MHz)   | 2496.5          | 12500      | 2499                      | -29.06           | 1.243           | 2.50           | Pass    |

## Test Condition: NV

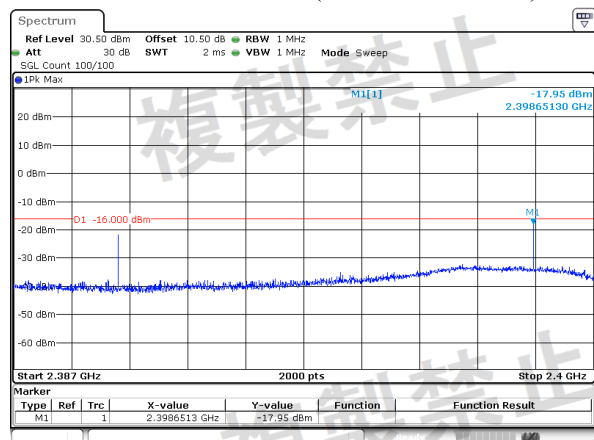
## 802.11b, Low Channel(30MHz~1GHz)



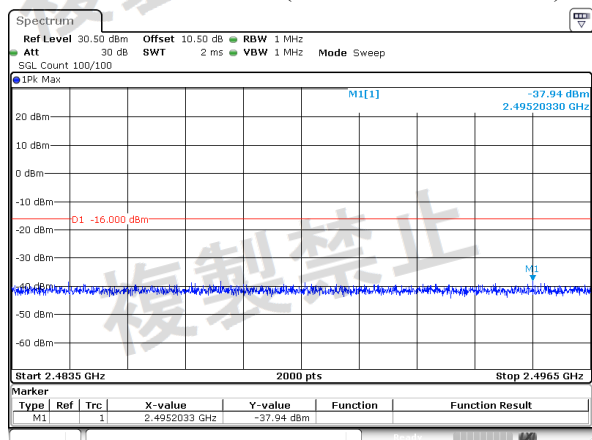
## 802.11b, Low Channel(1GHz~2.387GHz)



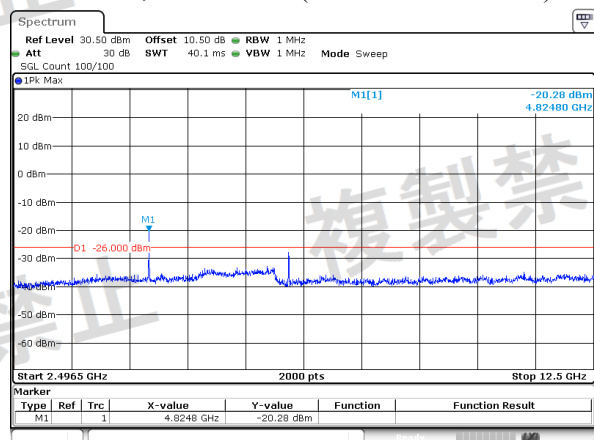
## 802.11b, Low Channel(2.387GHz~2.4GHz)



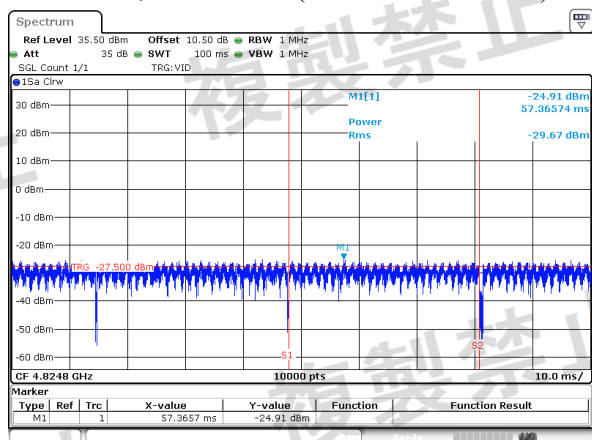
## 802.11b, Low Channel(2.4835GHz~2.4965GHz)



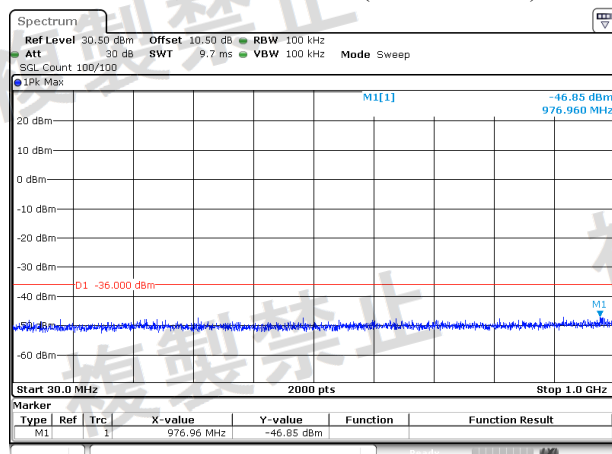
## 802.11b, Low Channel(2.4965GHz~12.5GHz)



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

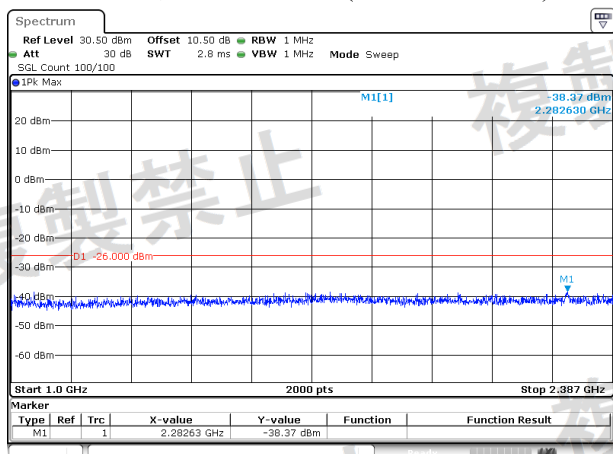


## 802.11b, Middle Channel(30MHz~1GHz)



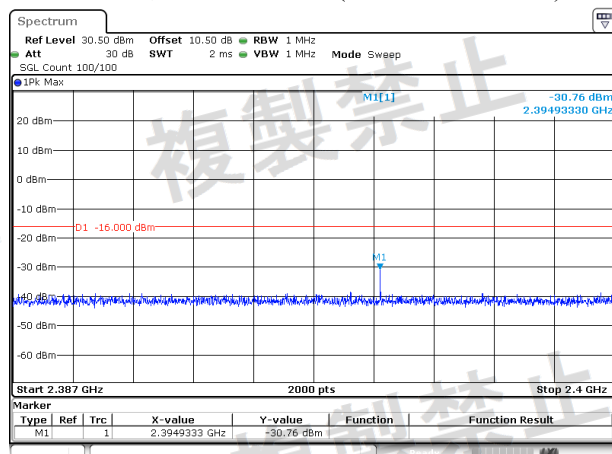
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 5.JUL.2025 23:43:45

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



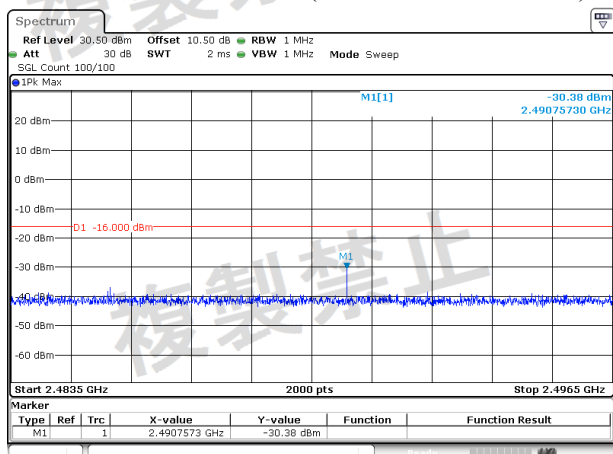
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 5.JUL.2025 23:43:54

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



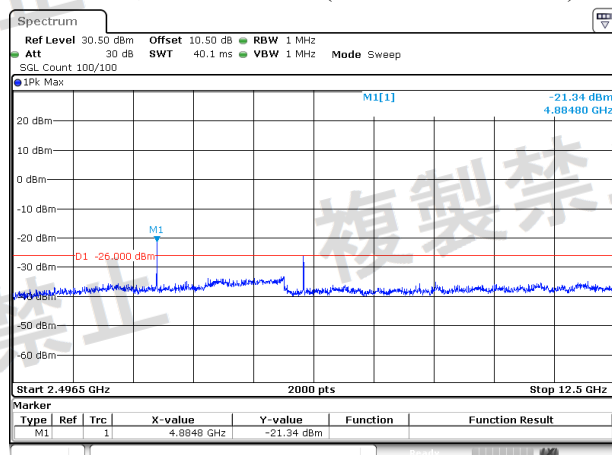
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 5.JUL.2025 23:44:02

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



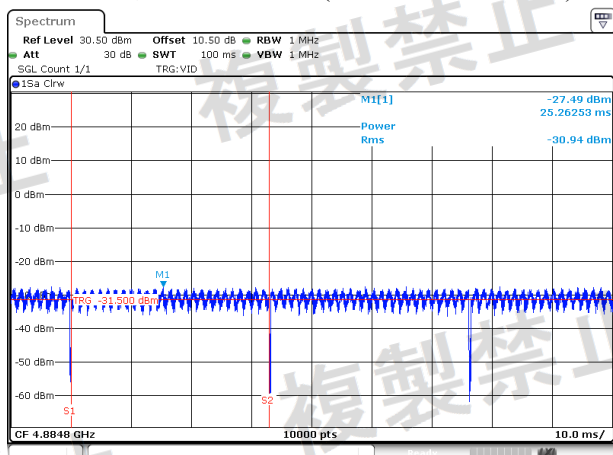
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 5.JUL.2025 23:44:10

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



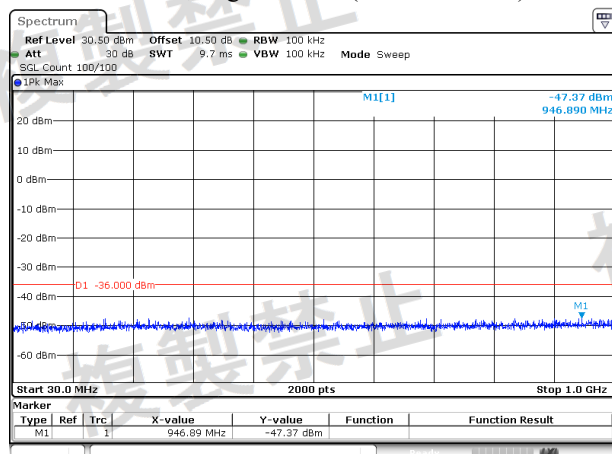
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 5.JUL.2025 23:44:33

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



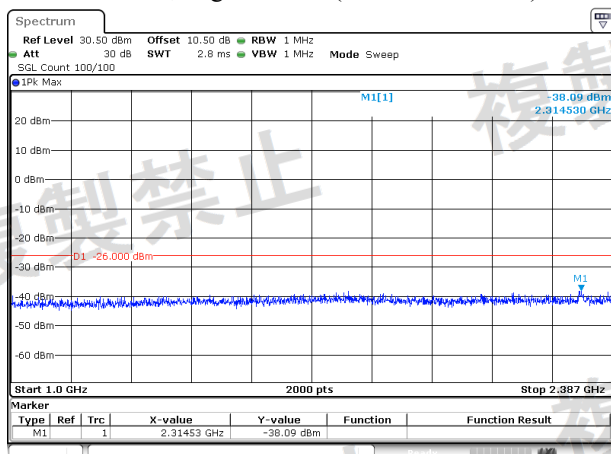
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 5.JUL.2025 23:47:59

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



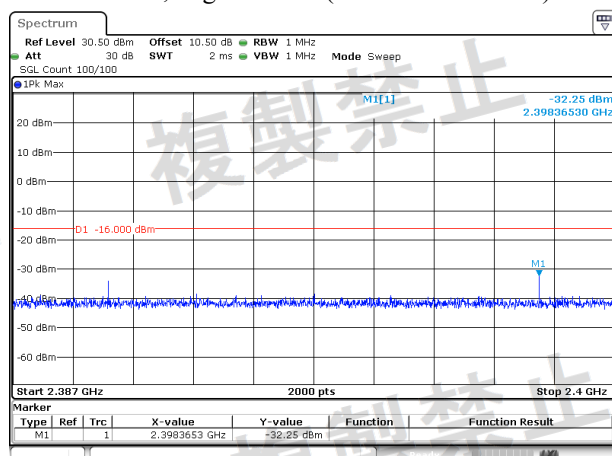
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 5.JUL.2025 23:51:09

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



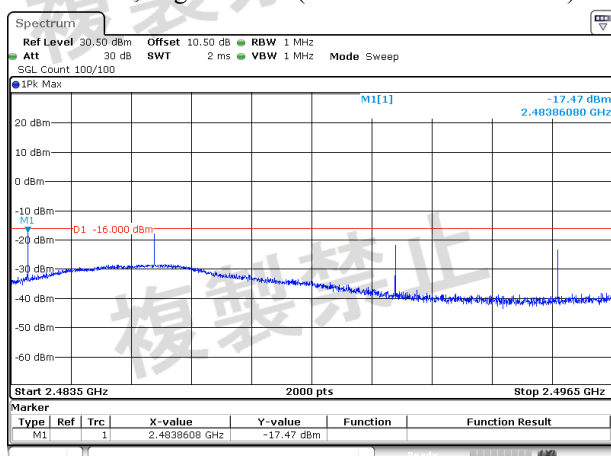
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 5.JUL.2025 23:51:19

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



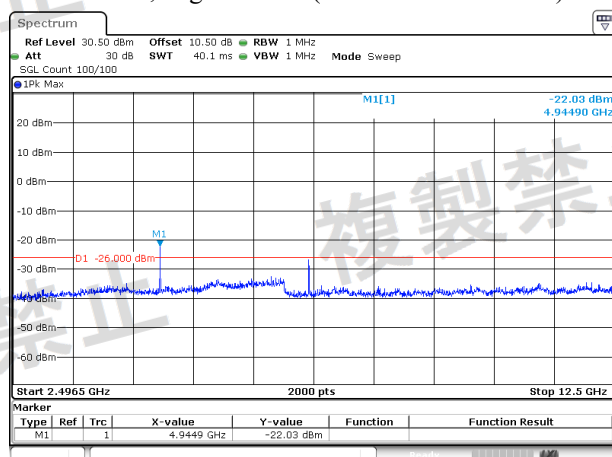
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 5.JUL.2025 23:51:26

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



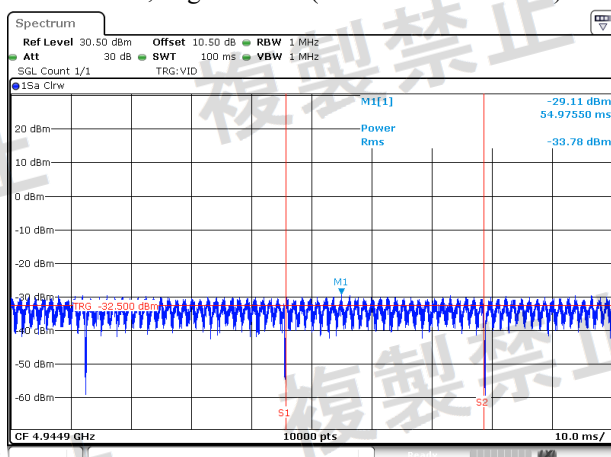
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 5.JUL.2025 23:51:34

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



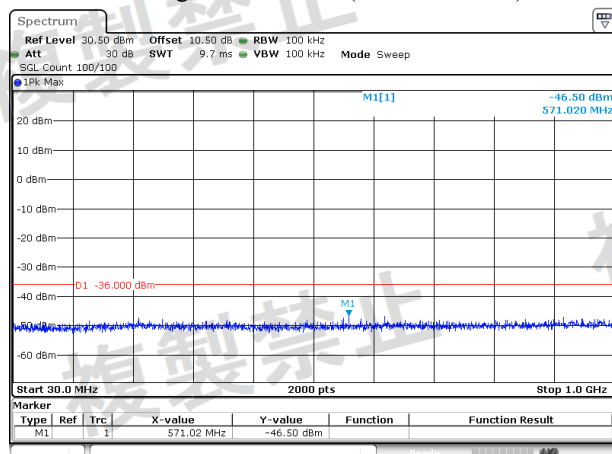
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 5.JUL.2025 23:51:58

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



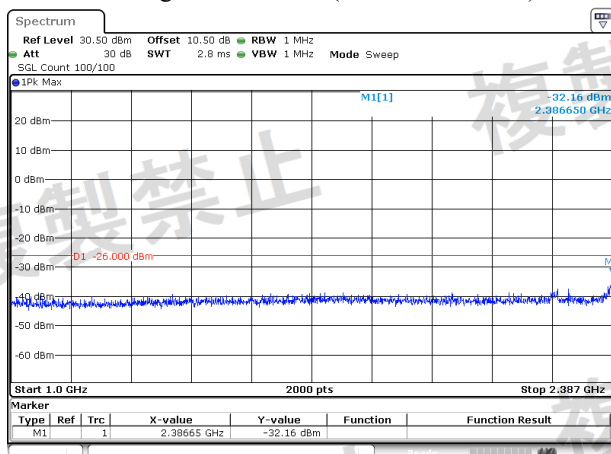
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 5.JUL.2025 23:54:41

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



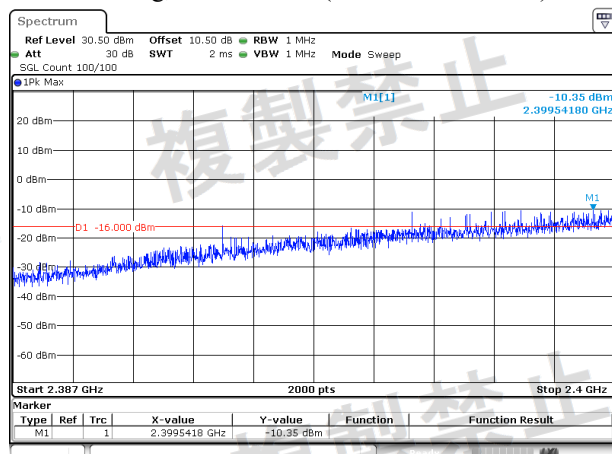
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:00:11

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



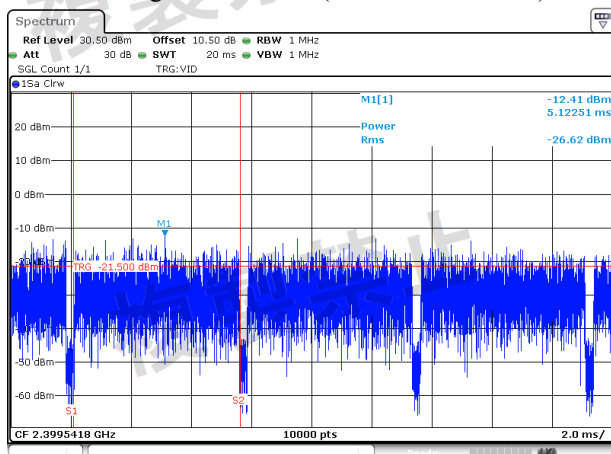
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:00:20

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



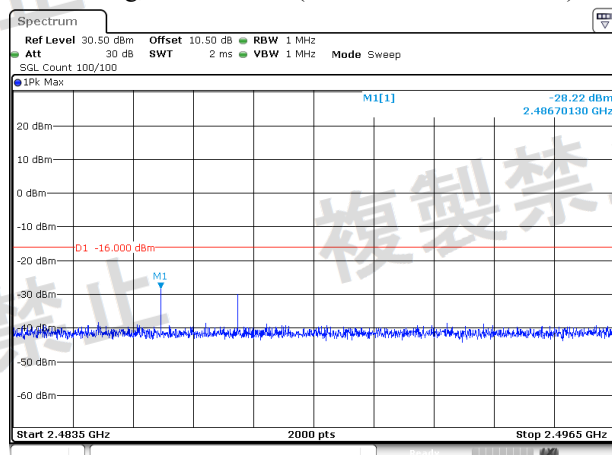
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:00:28

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



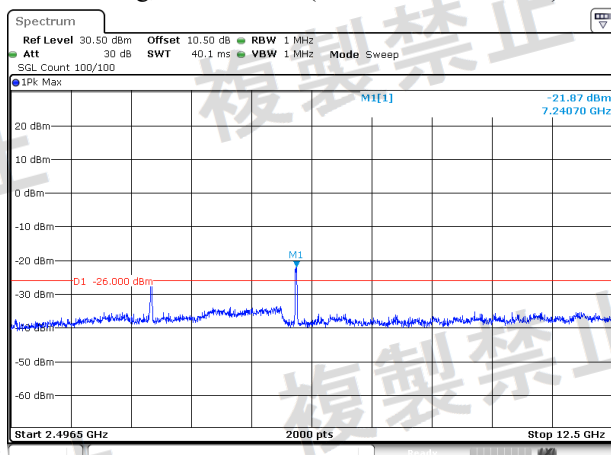
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:02:09

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



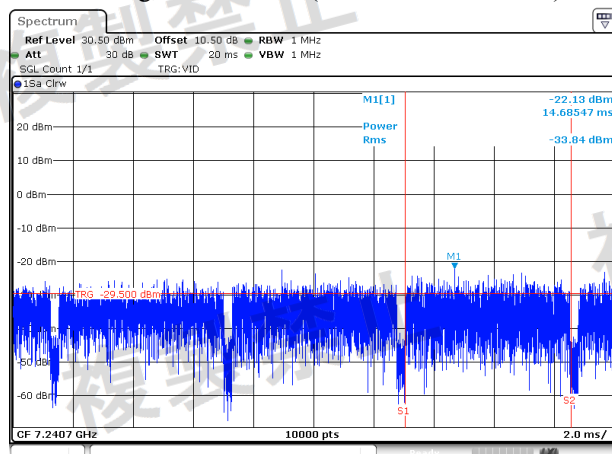
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:02:17

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



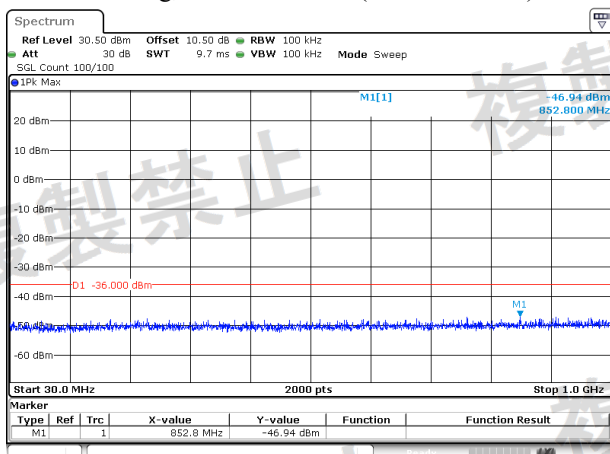
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:02:41

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



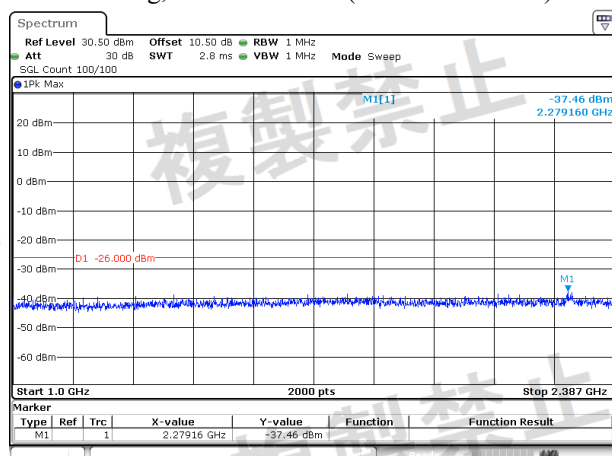
ProjectNo.:2501U09444E-RF Tester:Kungfumaaster Liang  
Date: 6.JUL.2025 00:04:48

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



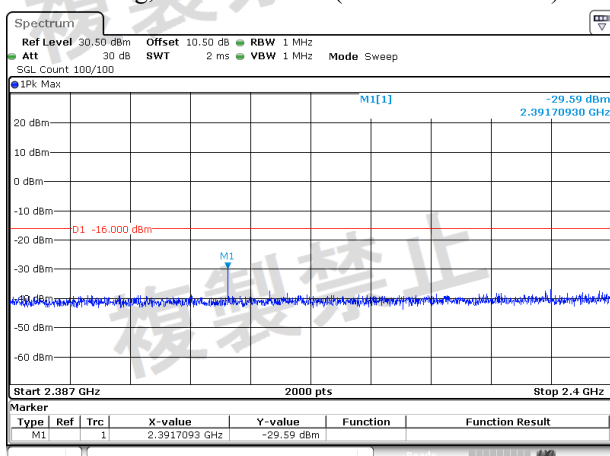
ProjectNo.:2501U09444E-RF Tester:Kungfumaaster Liang  
Date: 6.JUL.2025 00:03:47

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



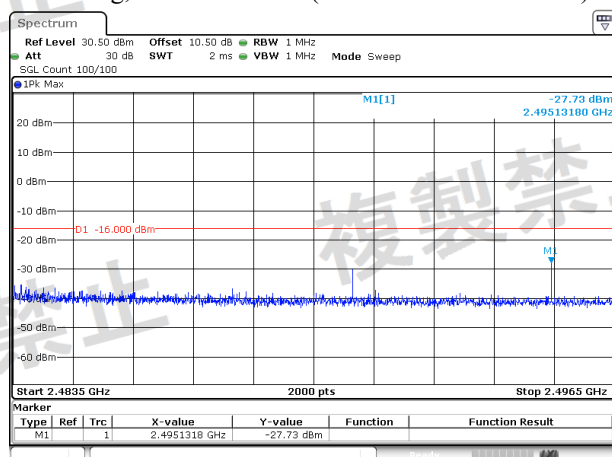
ProjectNo.:2501U09444E-RF Tester:Kungfumaaster Liang  
Date: 6.JUL.2025 00:07:58

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



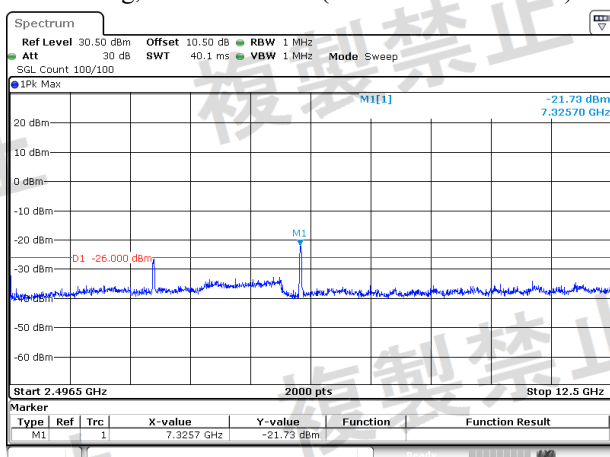
ProjectNo.:2501U09444E-RF Tester:Kungfumaaster Liang  
Date: 6.JUL.2025 00:08:05

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



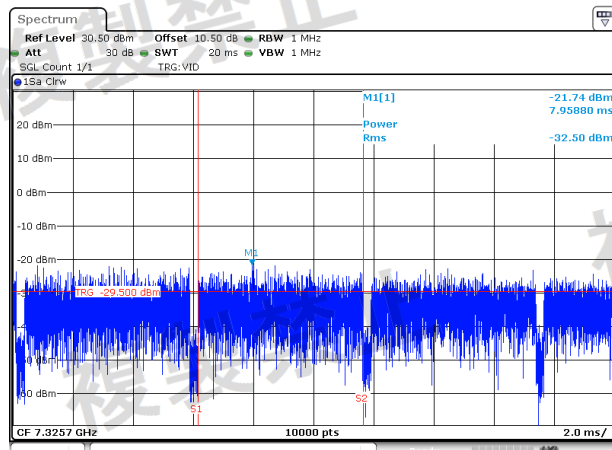
ProjectNo.:2501U09444E-RF Tester:Kungfumaaster Liang  
Date: 6.JUL.2025 00:08:13

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



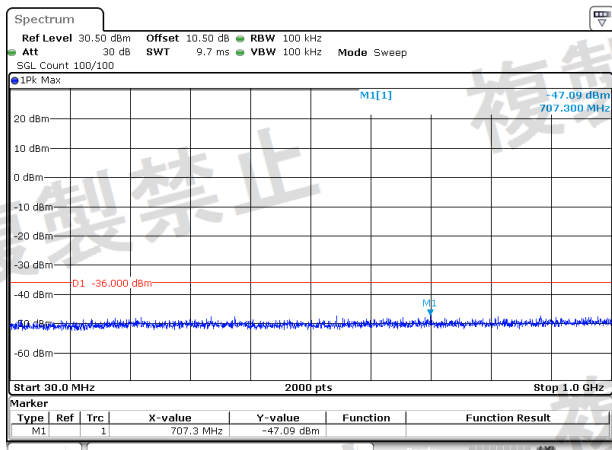
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Date: 6.JUL.2025 00:08:37

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



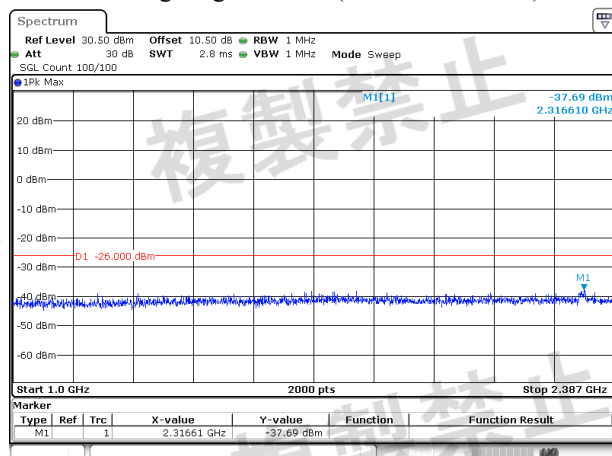
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:10:35

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



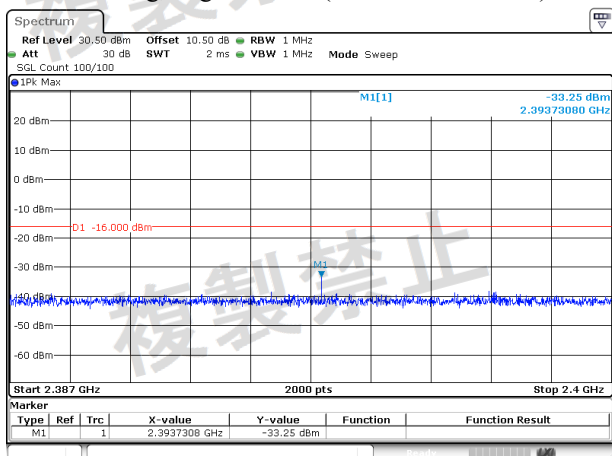
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:13:14

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



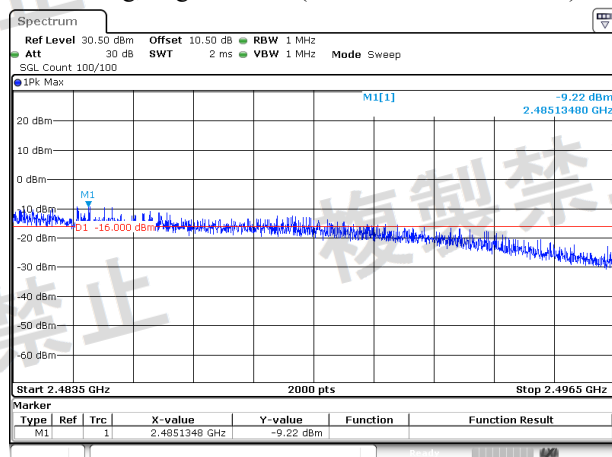
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:13:24

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



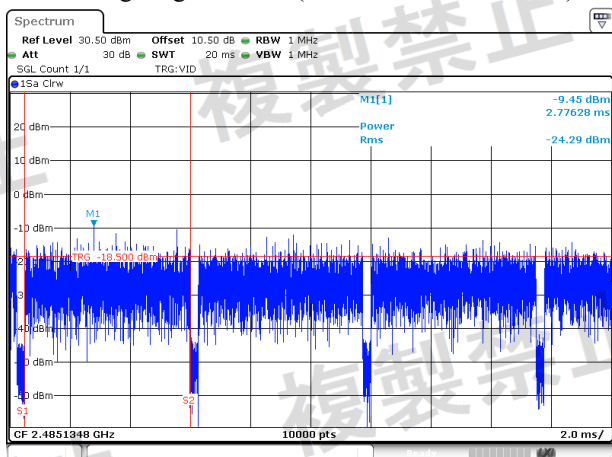
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:13:32

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



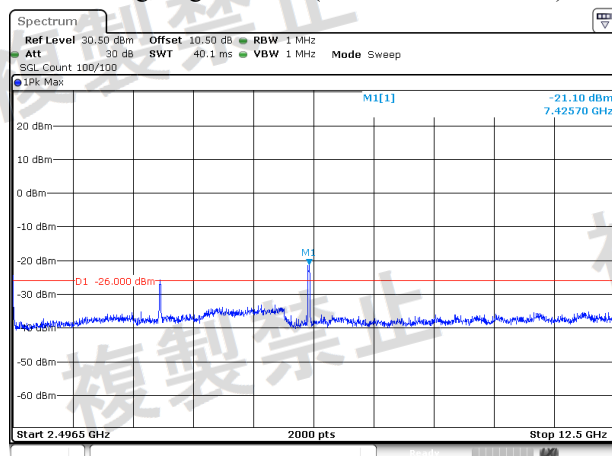
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:13:40

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



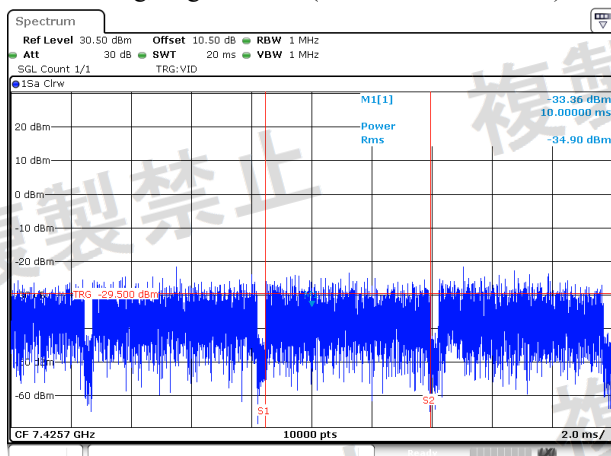
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:15:06

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



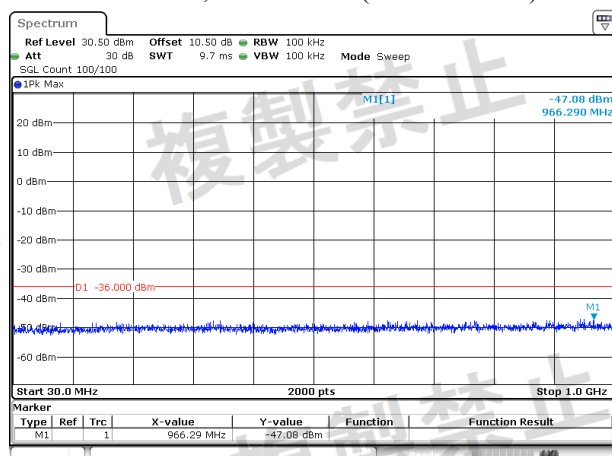
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:15:31

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



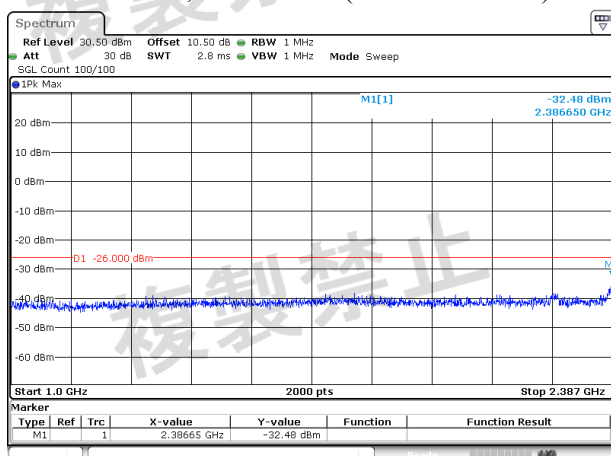
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:17:40

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



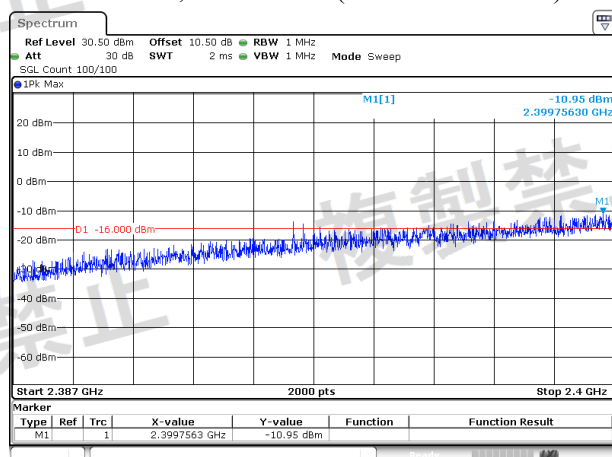
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:21:24

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



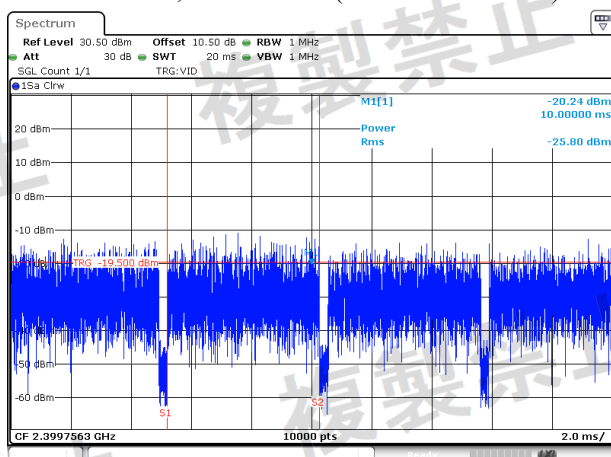
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:21:34

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



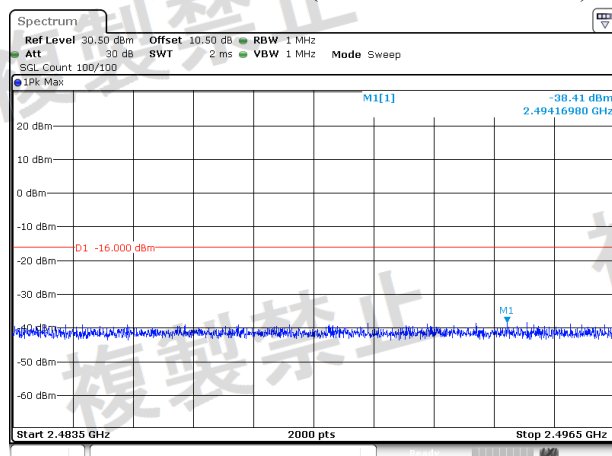
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:21:42

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



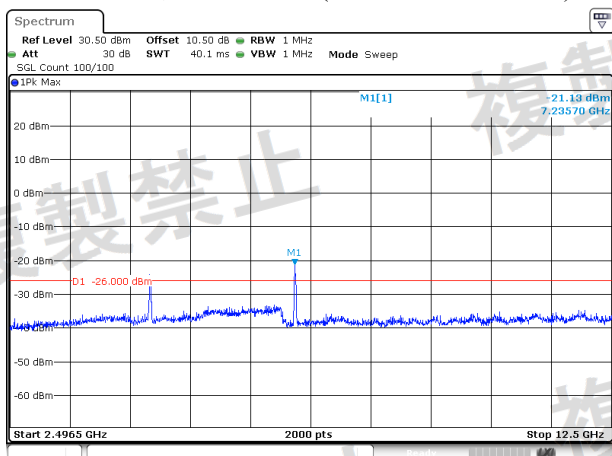
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:23:30

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



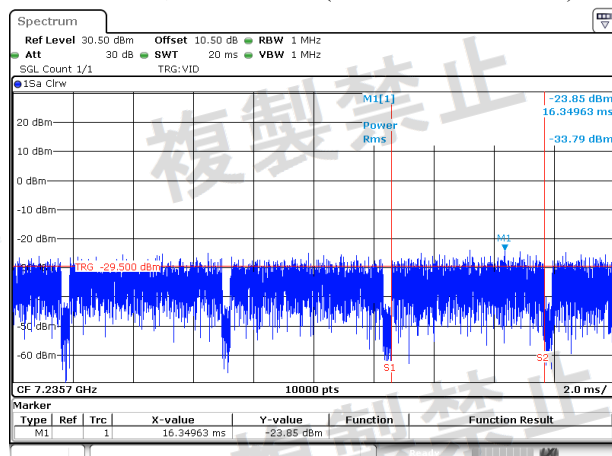
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:23:38

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



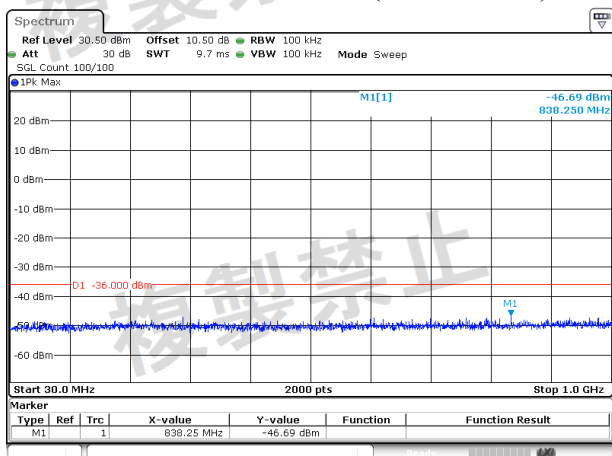
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:24:02

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



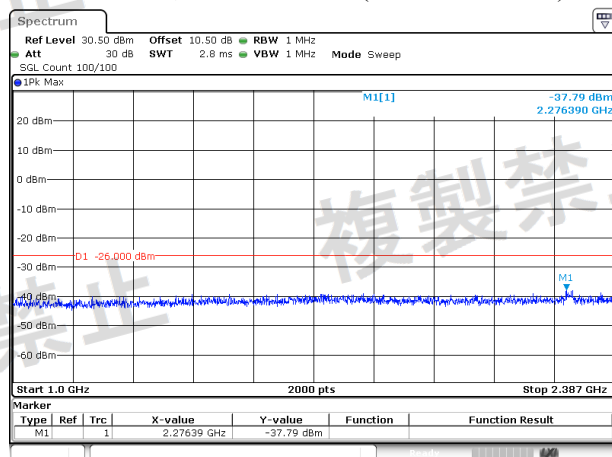
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:25:39

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



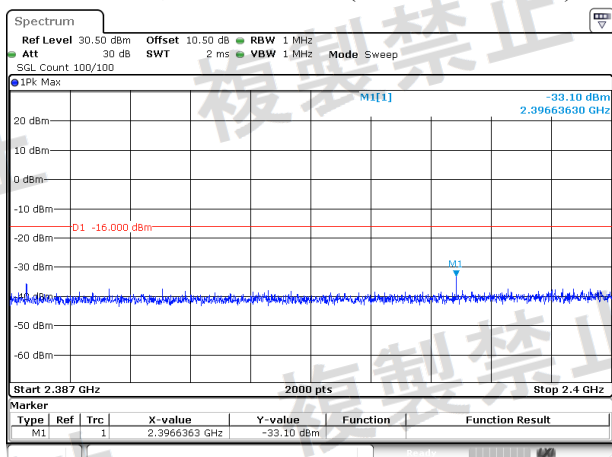
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:28:22

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



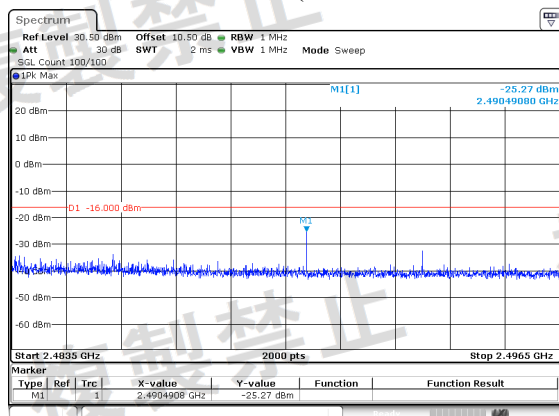
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:28:32

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

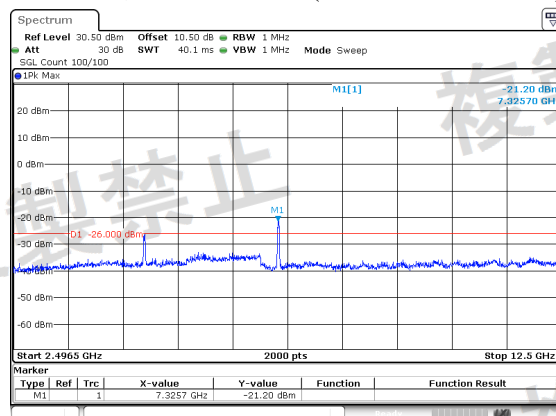


ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:28:40

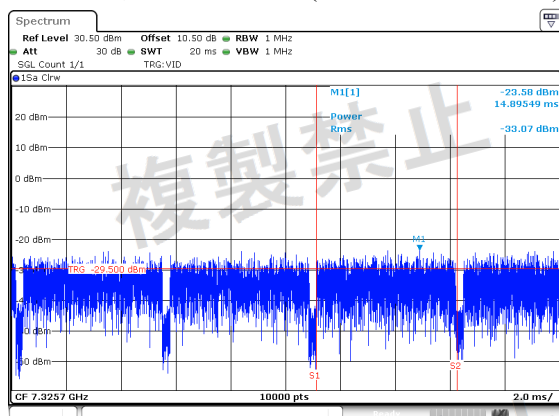
## 802.11n20, Middle Channel(2.4835GHz~2.4965GHz)



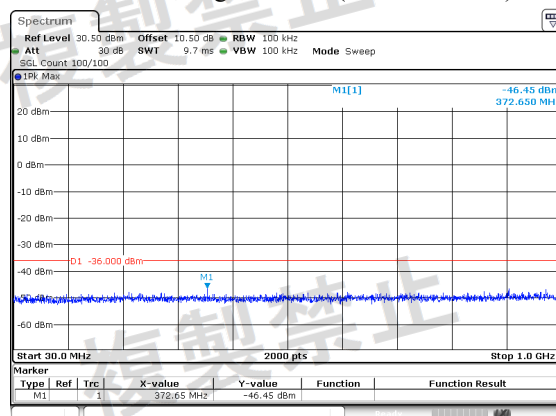
## 802.11n20, Middle Channel(2.4965GHz~12.5GHz)



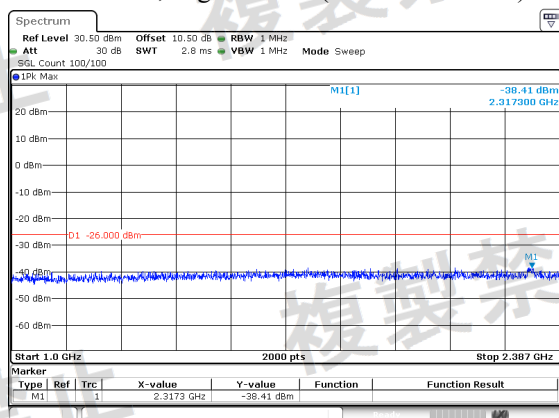
## 802.11n20, Middle Channel(2.4965GHz~12.5GHz)



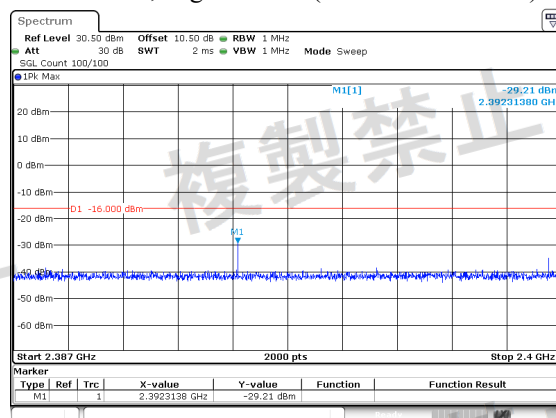
## 802.11n20, High Channel(30MHz~1GHz)



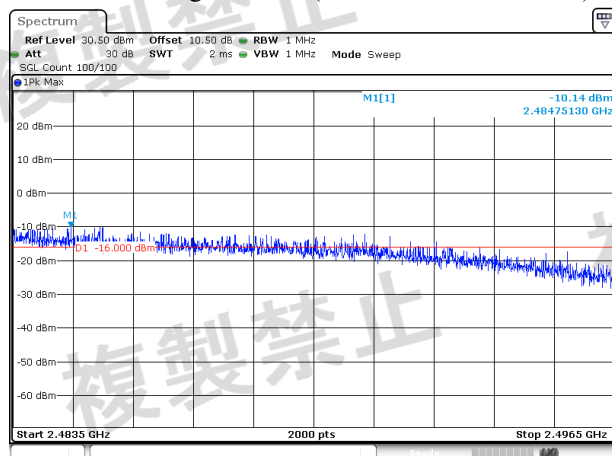
## 802.11n20, High Channel(1GHz~2.387GHz)



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

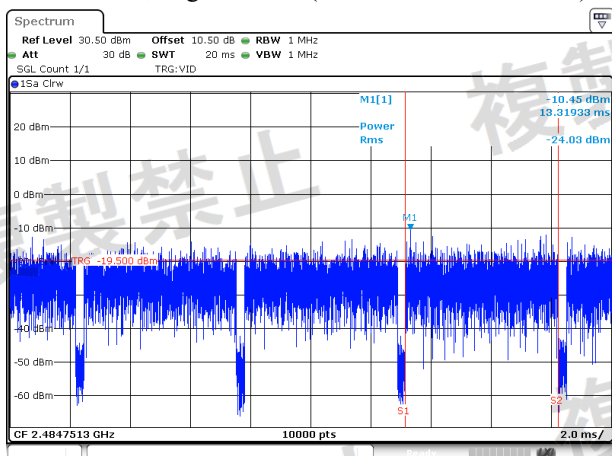


## 802.11n20, High Channel(2.4835GHz~2.4965GHz)



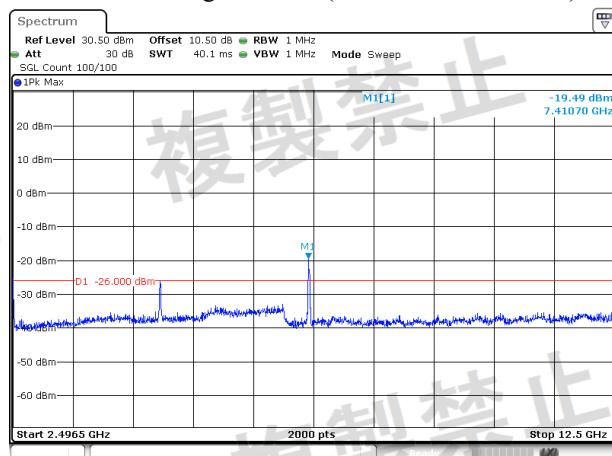
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:38:34

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



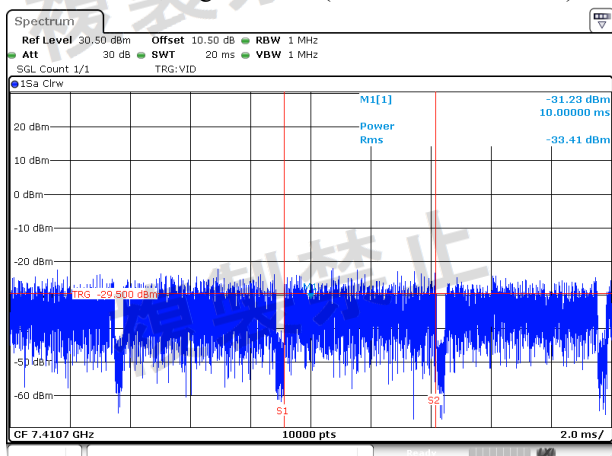
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:40:01

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



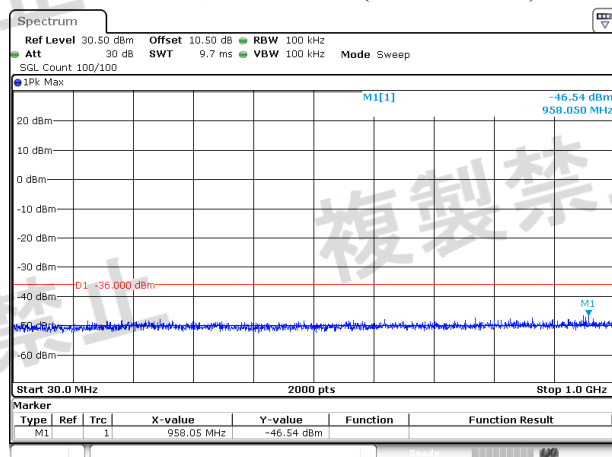
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:40:26

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



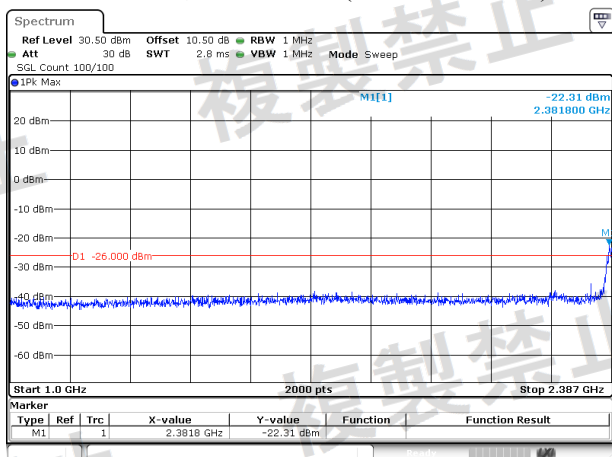
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:42:42

## 802.11n40, Low Channel(30MHz~1GHz)



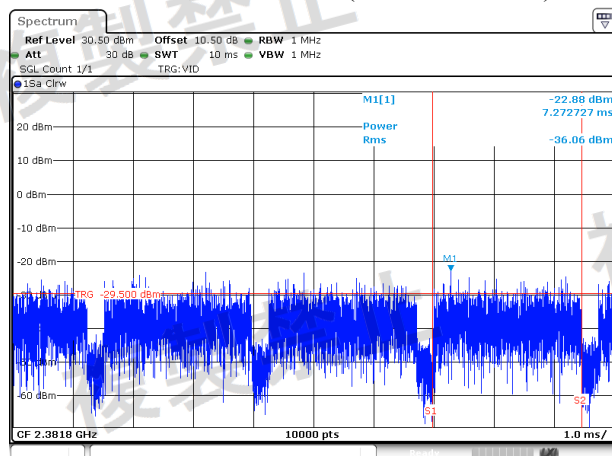
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:46:04

## 802.11n40, Low Channel(1GHz~2.387GHz)



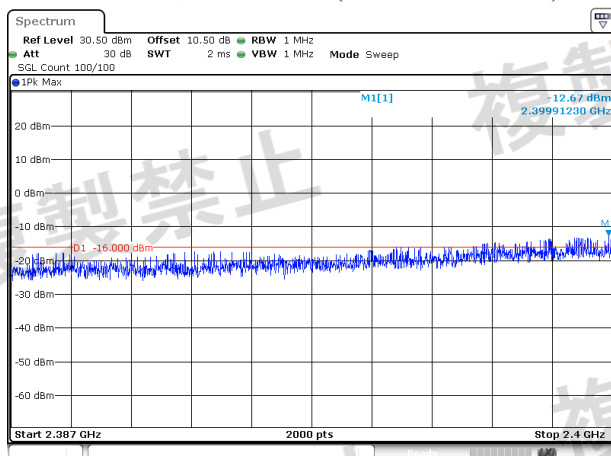
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:46:14

## 802.11n40, Low Channel(1GHz~2.387GHz)



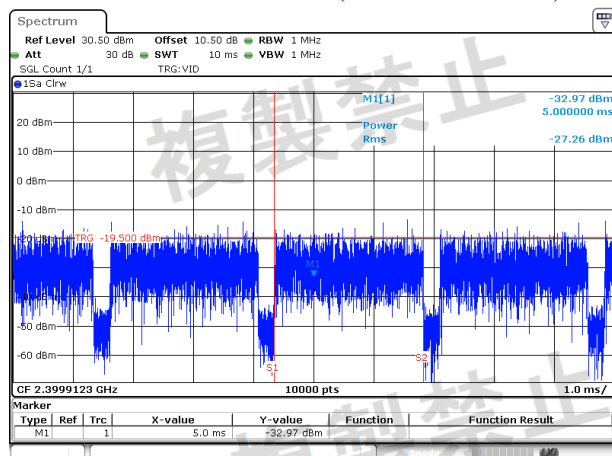
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:48:09

## 802.11n40, Low Channel(2.387GHz~2.4GHz)



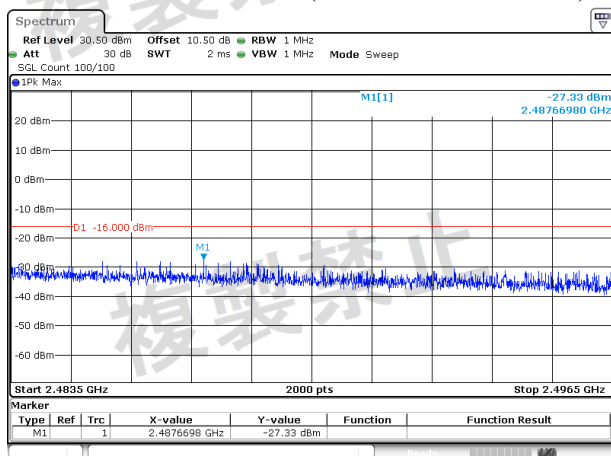
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:48:18

## 802.11n40, Low Channel(2.387GHz~2.4GHz)



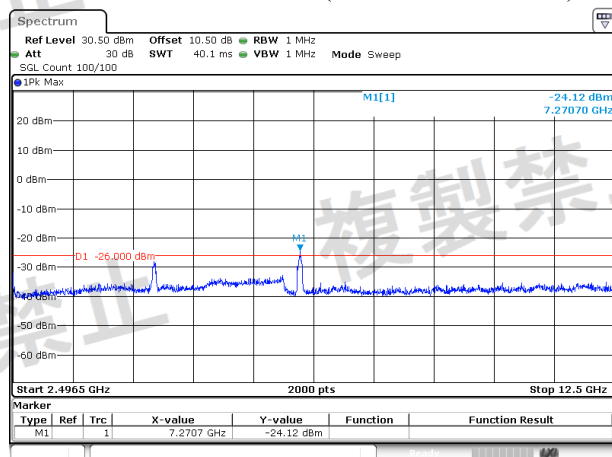
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:49:43

## 802.11n40, Low Channel(2.4835GHz~2.4965GHz)



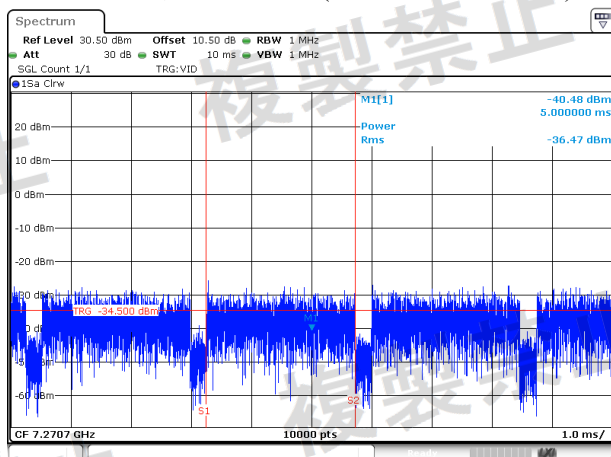
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:49:52

## 802.11n40, Low Channel(2.4965GHz~12.5GHz)



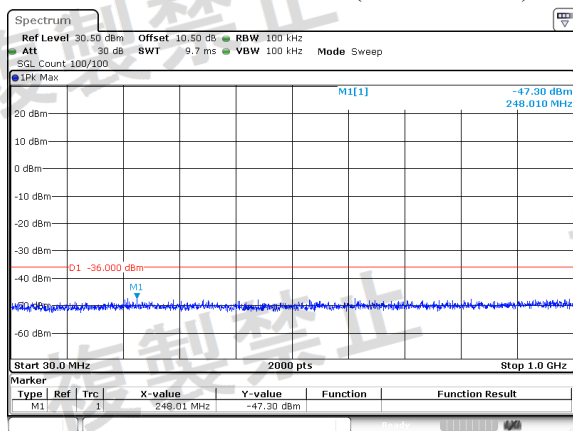
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:50:16

## 802.11n40, Low Channel(2.4965GHz~12.5GHz)



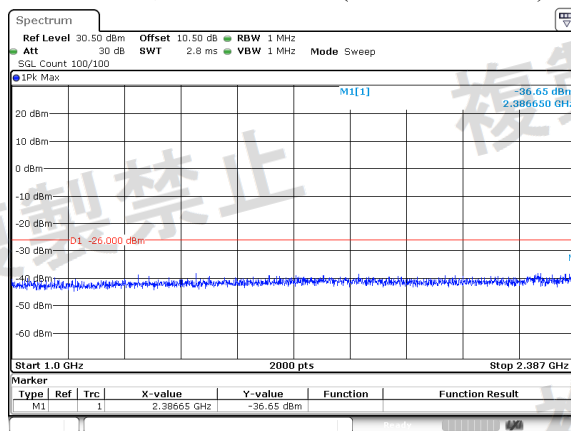
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:52:07

## 802.11n40, Middle Channel(30MHz~1GHz)



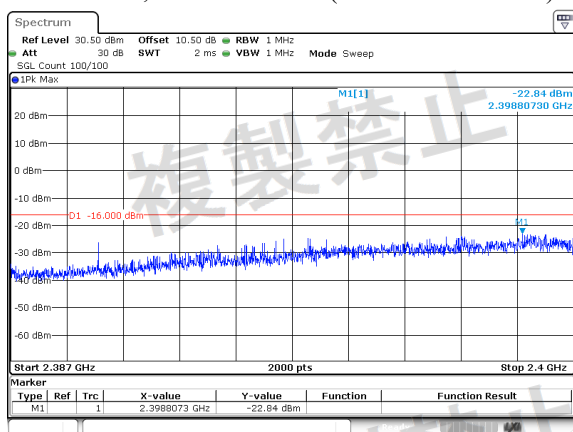
ProjectNo.:2501U09444E-RF Tester:Kungfumastr Liang  
Date: 6.JUL.2025 00:55:05

## 802.11n40, Middle Channel(1GHz~2.387GHz)



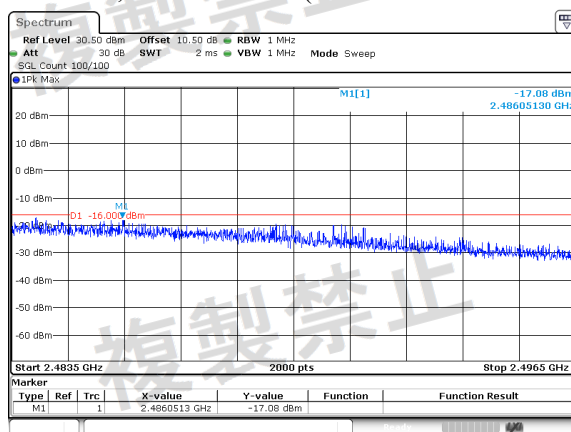
ProjectNo.:2501U09444E-RF Tester:Kungfumastr Liang  
Date: 6.JUL.2025 00:55:15

## 802.11n40, Middle Channel(2.387GHz~2.4GHz)



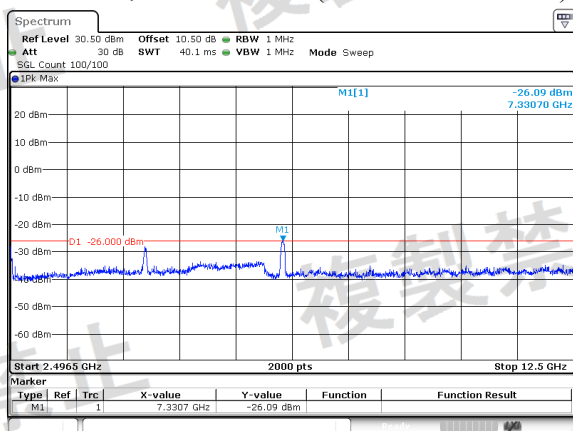
ProjectNo.:2501U09444E-RF Tester:Kungfumastr Liang  
Date: 6.JUL.2025 00:55:24

## 802.11n40, Middle Channel(2.4835GHz~2.4965GHz)



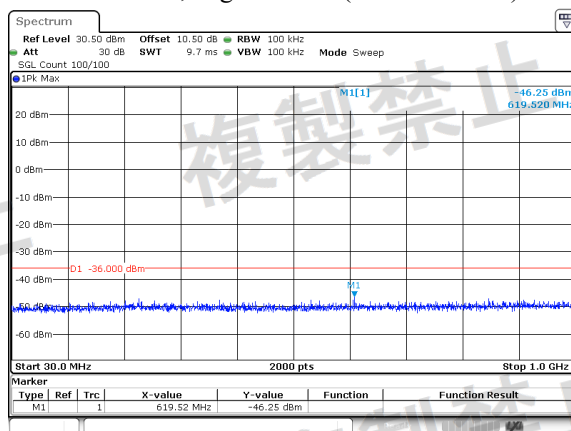
ProjectNo.:2501U09444E-RF Tester:Kungfumastr Liang  
Date: 6.JUL.2025 00:55:32

## 802.11n40, Middle Channel(2.4965GHz~12.5GHz)



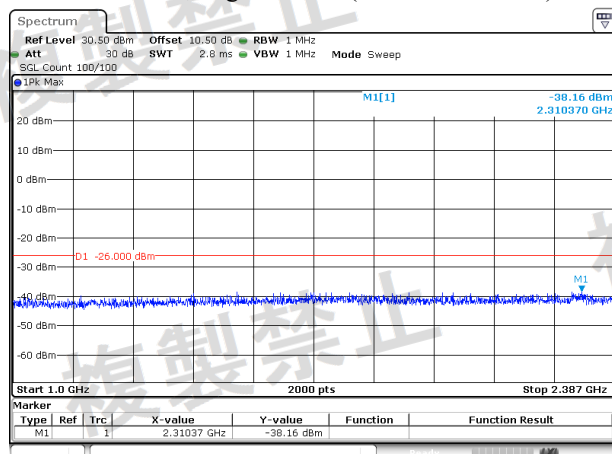
ProjectNo.:2501U09444E-RF Tester:Kungfumastr Liang  
Date: 6.JUL.2025 00:55:57

## 802.11n40, High Channel(30MHz~1GHz)



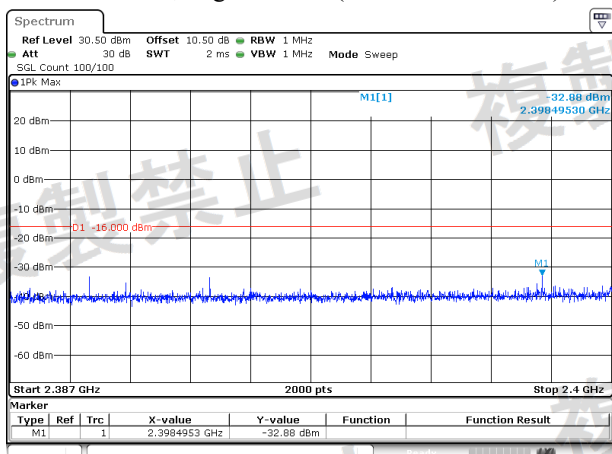
ProjectNo.:2501U09444E-RF Tester:Kungfumastr Liang  
Date: 6.JUL.2025 01:02:06

## 802.11n40, High Channel(1GHz~2.387GHz)



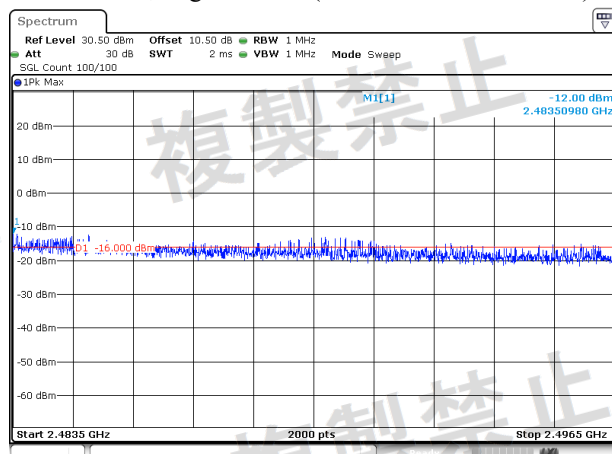
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:02:16

## 802.11n40, High Channel(2.387GHz~2.4GHz)



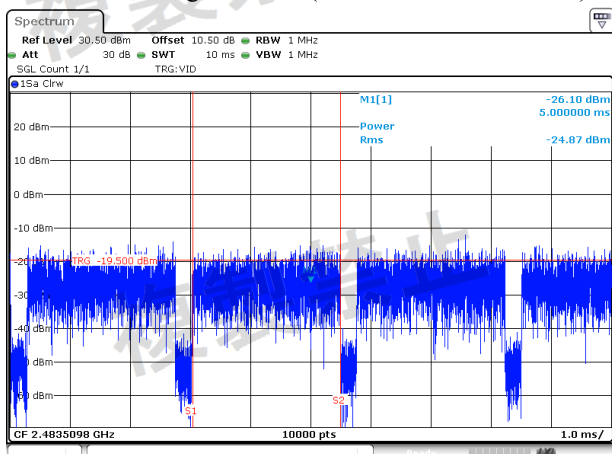
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:02:25

## 802.11n40, High Channel(2.4835GHz~2.4965GHz)



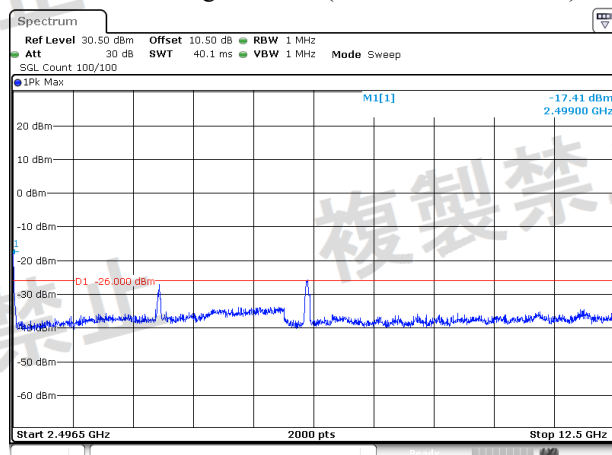
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:05:47

## 802.11n40, High Channel(2.4835GHz~2.4965GHz)



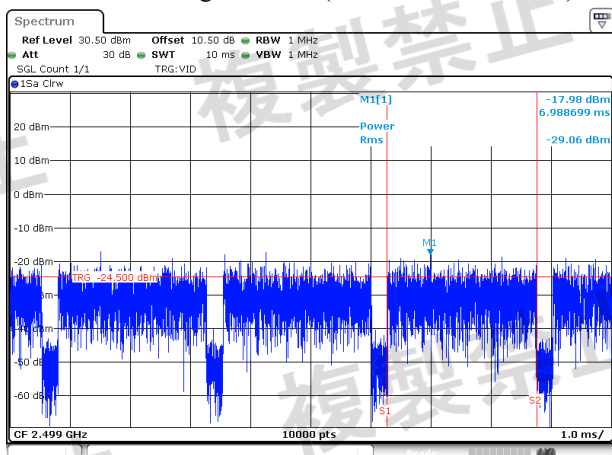
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:07:09

## 802.11n40, High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:11:39

## 802.11n40, High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:13:17

**Antenna Output Power and Output Power Tolerance****Test Information:**

|                    |                    |                     |                       |
|--------------------|--------------------|---------------------|-----------------------|
| <b>Sample No.:</b> | 34PW-1             | <b>Test Date:</b>   | 2025/07/05~2025/07/06 |
| <b>Test Site:</b>  | RF                 | <b>Test Mode:</b>   | Transmitting          |
| <b>Tester:</b>     | Kungfumaster Liang | <b>Test Result:</b> | Pass                  |

**Environmental Conditions:**

|                             |           |                                  |       |                               |             |
|-----------------------------|-----------|----------------------------------|-------|-------------------------------|-------------|
| <b>Temperature:</b><br>(°C) | 24.5-25.8 | <b>Relative Humidity:</b><br>(%) | 52-57 | <b>ATM Pressure:</b><br>(kPa) | 101.1-101.7 |
|-----------------------------|-----------|----------------------------------|-------|-------------------------------|-------------|

**Test Condition: NV**

| Mode      | Antenna gain<br>(dBi) | Declared power<br>(mW/MHz) |
|-----------|-----------------------|----------------------------|
| 802.11b   | 3.5                   | 6.20                       |
| 802.11g   | 3.5                   | 3.30                       |
| 802.11n20 | 3.5                   | 3.20                       |
| 802.11n40 | 3.5                   | 1.60                       |

| Mode      | Channel | Antenna output power<br>(dBm/MHz) | Antenna output power(mW/MHz) |       | Antenna output tolerance(%) |         | EIRP<br>(dBm/MHz) |         | Verdict |
|-----------|---------|-----------------------------------|------------------------------|-------|-----------------------------|---------|-------------------|---------|---------|
|           |         |                                   | Result                       | Limit | Result                      | Limit   | Result            | Limit   |         |
| 802.11b   | Low     | 7.87                              | 6.124                        | ≤ 10  | -1.23                       | -80~+20 | 11.37             | ≤ 12.14 | Pass    |
|           | Middle  | 7.31                              | 5.383                        | ≤ 10  | -13.18                      | -80~+20 | 10.81             | ≤ 12.14 | Pass    |
|           | High    | 7.53                              | 5.662                        | ≤ 10  | -8.68                       | -80~+20 | 11.03             | ≤ 12.14 | Pass    |
| 802.11g   | Low     | 5.07                              | 3.214                        | ≤ 10  | -2.61                       | -80~+20 | 8.57              | ≤ 12.14 | Pass    |
|           | Middle  | 5.19                              | 3.304                        | ≤ 10  | 0.12                        | -80~+20 | 8.69              | ≤ 12.14 | Pass    |
|           | High    | 4.89                              | 3.083                        | ≤ 10  | -6.58                       | -80~+20 | 8.39              | ≤ 12.14 | Pass    |
| 802.11n20 | Low     | 4.95                              | 3.126                        | ≤ 10  | -2.31                       | -80~+20 | 8.45              | ≤ 12.14 | Pass    |
|           | Middle  | 4.69                              | 2.944                        | ≤ 10  | -8.00                       | -80~+20 | 8.19              | ≤ 12.14 | Pass    |
|           | High    | 4.66                              | 2.924                        | ≤ 10  | -8.63                       | -80~+20 | 8.16              | ≤ 12.14 | Pass    |
| 802.11n40 | Low     | 2.06                              | 1.607                        | ≤ 5   | 0.44                        | -80~+20 | 5.56              | ≤ 9.13  | Pass    |
|           | Middle  | 1.89                              | 1.545                        | ≤ 5   | -3.44                       | -80~+20 | 5.39              | ≤ 9.13  | Pass    |
|           | High    | 1.83                              | 1.524                        | ≤ 5   | -4.75                       | -80~+20 | 5.33              | ≤ 9.13  | Pass    |

Note:

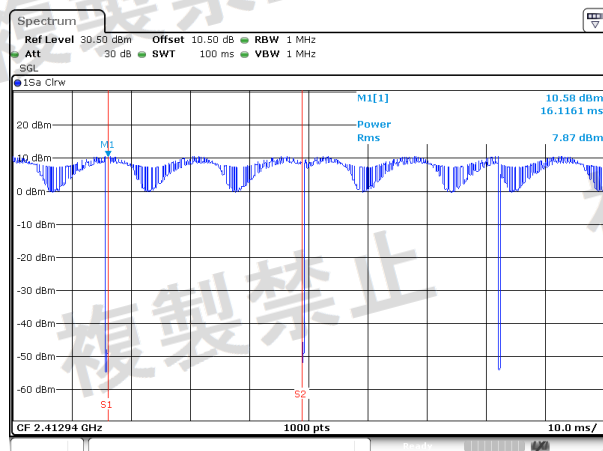
Antenna output power(mW/MHz)=  $10^{[\text{Antenna output power(dBm/MHz)} / 10]}$ 

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

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

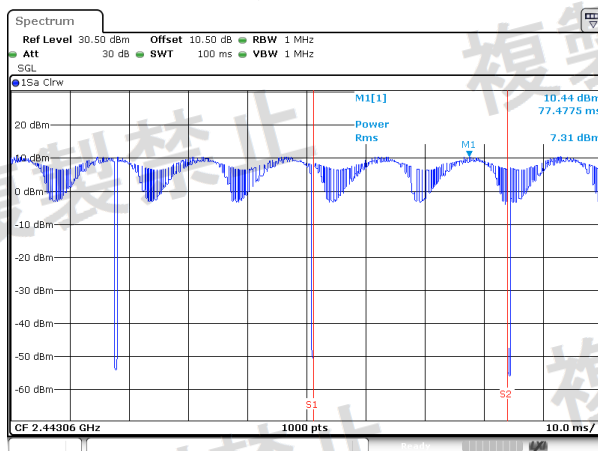
## Test Condition: NV

802.11b, Low Channel



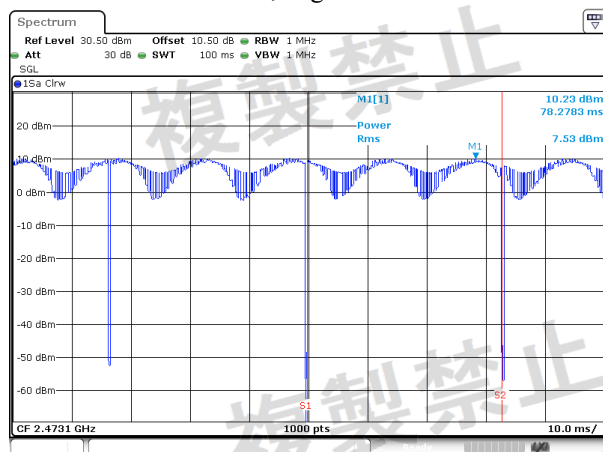
ProjectNo.:2501U09444E-RF Tester:Kungfumaster Liang  
Date: 5.JUL.2025 23:42:01

802.11b, Middle Channel



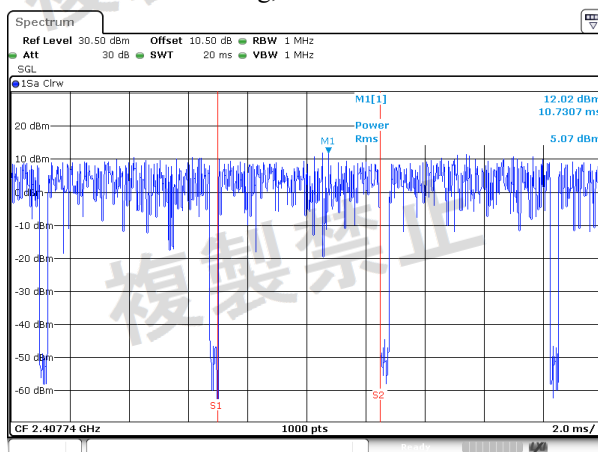
ProjectNo.:2501U09444E-RF Tester:Kungfumaster Liang  
Date: 5.JUL.2025 23:49:14

802.11b, High Channel



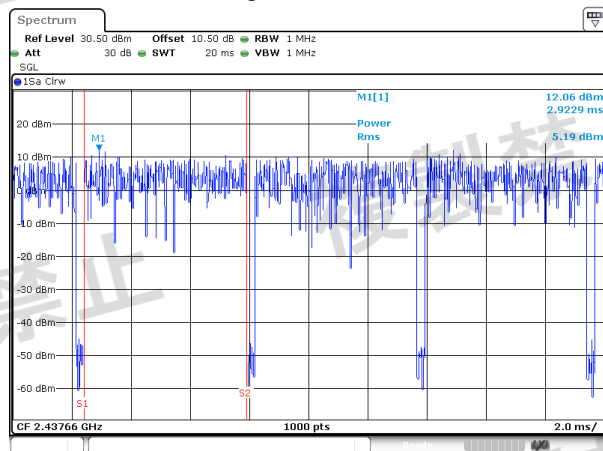
ProjectNo.:2501U09444E-RF Tester:Kungfumaster Liang  
Date: 5.JUL.2025 23:55:52

802.11g, Low Channel



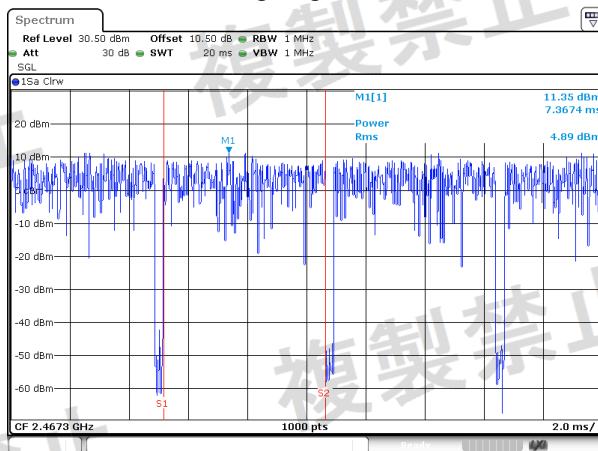
ProjectNo.:2501U09444E-RF Tester:Kungfumaster Liang  
Date: 6.JUL.2025 00:05:59

802.11g, Middle Channel



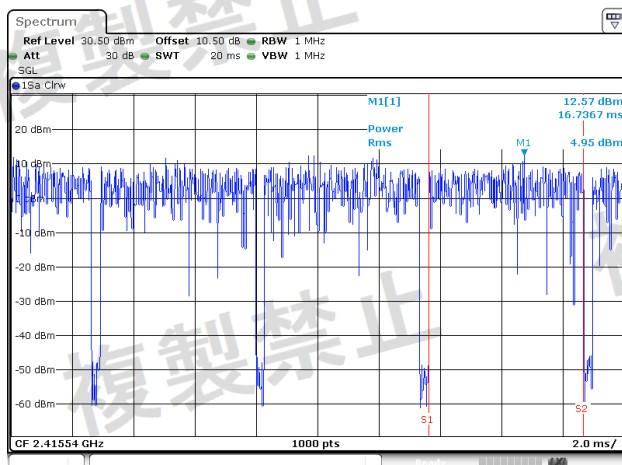
ProjectNo.:2501U09444E-RF Tester:Kungfumaster Liang  
Date: 6.JUL.2025 00:11:42

802.11g, High Channel



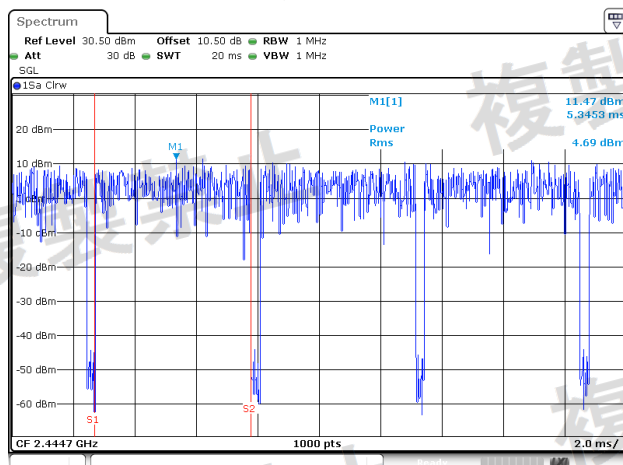
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Date: 6.JUL.2025 00:19:30

802.11n20, Low Channel



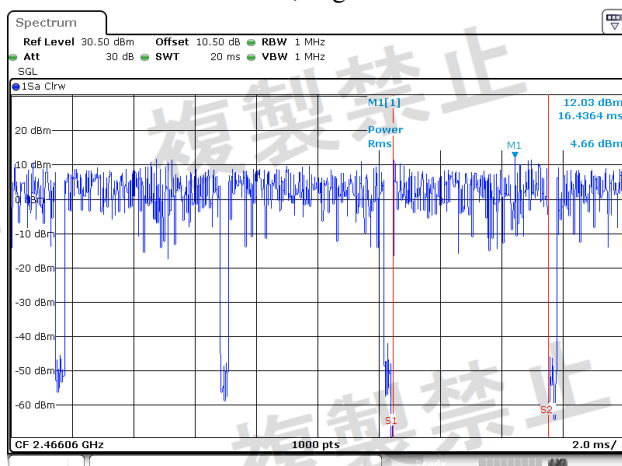
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:26:45

802.11n20, Middle Channel



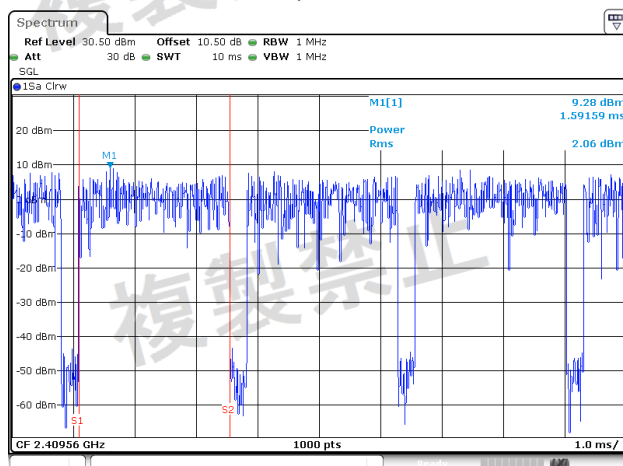
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:32:35

802.11n20, High Channel



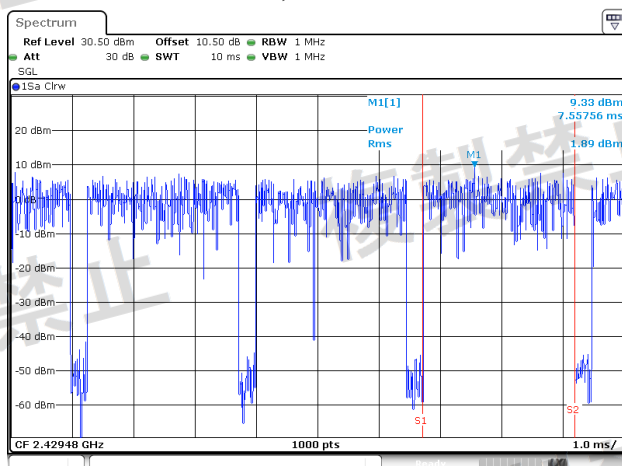
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Date: 6.JUL.2025 00:43:54

802.11n40, Low Channel



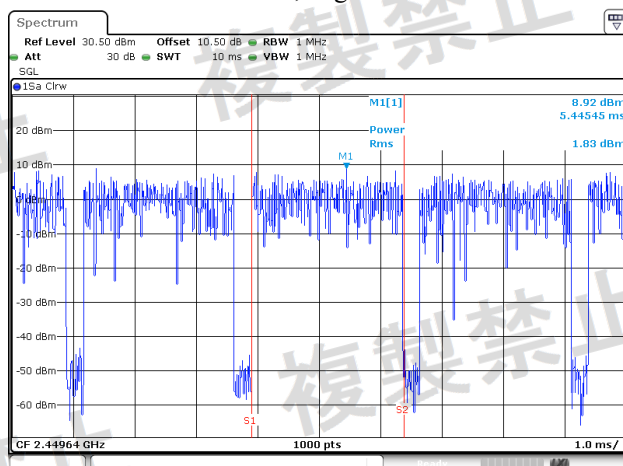
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:53:10

802.11n40, Middle Channel



ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 00:57:39

802.11n40, High Channel



ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:10:51

## Receiver Spurious Emission and Unwanted Emission Intensity

## Test Information:

|             |                    |              |              |
|-------------|--------------------|--------------|--------------|
| Sample No.: | 34PW-1             | Test Date:   | 2025/07/06   |
| Test Site:  | RF                 | Test Mode:   | Transmitting |
| Tester:     | Kungfumaster Liang | Test Result: | Pass         |

## Environmental Conditions:

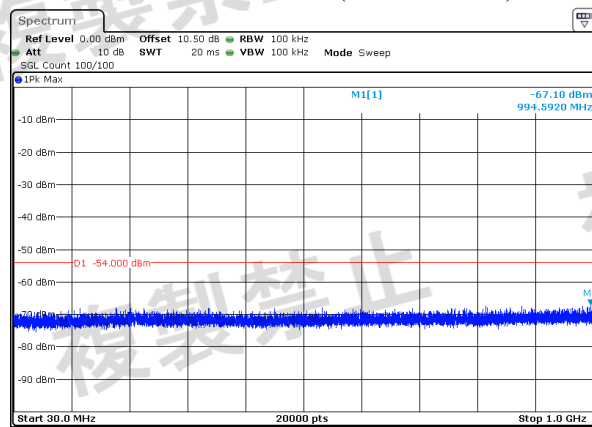
|                      |      |                              |    |                        |       |
|----------------------|------|------------------------------|----|------------------------|-------|
| Temperature:<br>(°C) | 25.8 | Relative<br>Humidity:<br>(%) | 57 | ATM Pressure:<br>(kPa) | 101.7 |
|----------------------|------|------------------------------|----|------------------------|-------|

**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       | 994.592                   | -67.10       | 0.195       | 4          | Pass    |
|           |         | Band II (1MHz)  | 1000            | 12500      | 5965.41                   | -52.44       | 5.702       | 20         | Pass    |
|           | Middle  | Band I (100kHz) | 30              | 1000       | 276.647                   | -66.78       | 0.210       | 4          | Pass    |
|           |         | Band II (1MHz)  | 1000            | 12500      | 6834.81                   | -53.28       | 4.699       | 20         | Pass    |
|           | High    | Band I (100kHz) | 30              | 1000       | 922.667                   | -66.72       | 0.213       | 4          | Pass    |
|           |         | Band II (1MHz)  | 1000            | 12500      | 6722.69                   | -52.78       | 5.272       | 20         | Pass    |
| 802.11g   | Low     | Band I (100kHz) | 30              | 1000       | 938.235                   | -66.37       | 0.231       | 4          | Pass    |
|           |         | Band II (1MHz)  | 1000            | 12500      | 6911.29                   | -53.15       | 4.842       | 20         | Pass    |
|           | Middle  | Band I (100kHz) | 30              | 1000       | 249.244                   | -66.72       | 0.213       | 4          | Pass    |
|           |         | Band II (1MHz)  | 1000            | 12500      | 5963.11                   | -53.50       | 4.467       | 20         | Pass    |
|           | High    | Band I (100kHz) | 30              | 1000       | 929.36                    | -66.36       | 0.231       | 4          | Pass    |
|           |         | Band II (1MHz)  | 1000            | 12500      | 5947.59                   | -53.26       | 4.721       | 20         | Pass    |
| 802.11n20 | Low     | Band I (100kHz) | 30              | 1000       | 965.686                   | -66.65       | 0.216       | 4          | Pass    |
|           |         | Band II (1MHz)  | 1000            | 12500      | 6980.29                   | -53.20       | 4.786       | 20         | Pass    |
|           | Middle  | Band I (100kHz) | 30              | 1000       | 813.057                   | -67.16       | 0.192       | 4          | Pass    |
|           |         | Band II (1MHz)  | 1000            | 12500      | 6957.86                   | -52.62       | 5.470       | 20         | Pass    |
|           | High    | Band I (100kHz) | 30              | 1000       | 960.351                   | -67.11       | 0.195       | 4          | Pass    |
|           |         | Band II (1MHz)  | 1000            | 12500      | 6636.44                   | -53.46       | 4.508       | 20         | Pass    |
| 802.11n40 | Low     | Band I (100kHz) | 30              | 1000       | 970.779                   | -67.52       | 0.177       | 4          | Pass    |
|           |         | Band II (1MHz)  | 1000            | 12500      | 6516.84                   | -52.66       | 5.420       | 20         | Pass    |
|           | Middle  | Band I (100kHz) | 30              | 1000       | 889.493                   | -66.63       | 0.217       | 4          | Pass    |
|           |         | Band II (1MHz)  | 1000            | 12500      | 6770.99                   | -53.11       | 4.887       | 20         | Pass    |
|           | High    | Band I (100kHz) | 30              | 1000       | 874.361                   | -66.81       | 0.208       | 4          | Pass    |
|           |         | Band II (1MHz)  | 1000            | 12500      | 6020.04                   | -53.11       | 4.887       | 20         | Pass    |

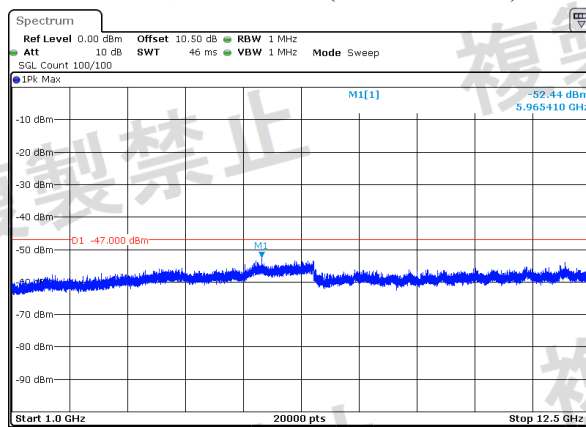
## Test Condition: NV

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



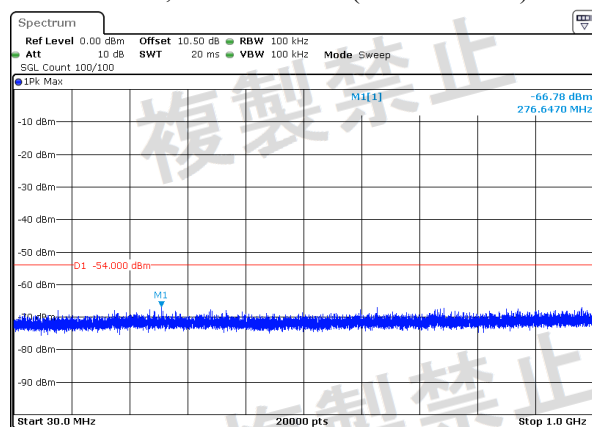
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Date: 6.JUL.2025 01:17:14

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



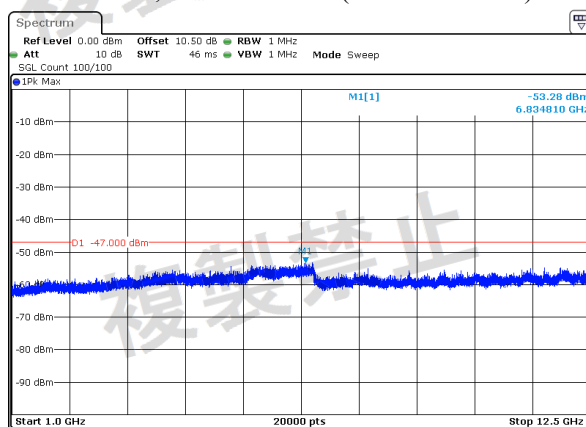
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:19:19

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



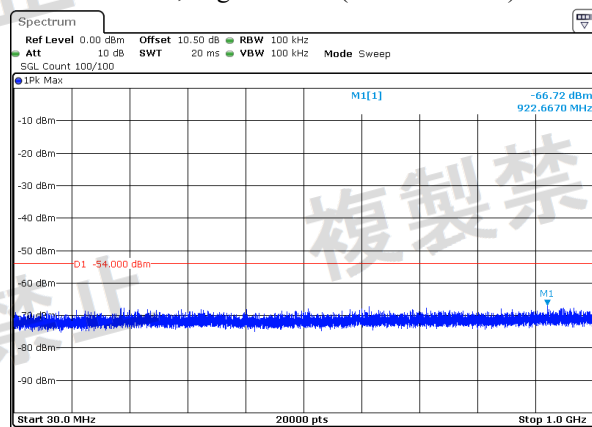
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Date: 6.JUL.2025 01:19:37

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



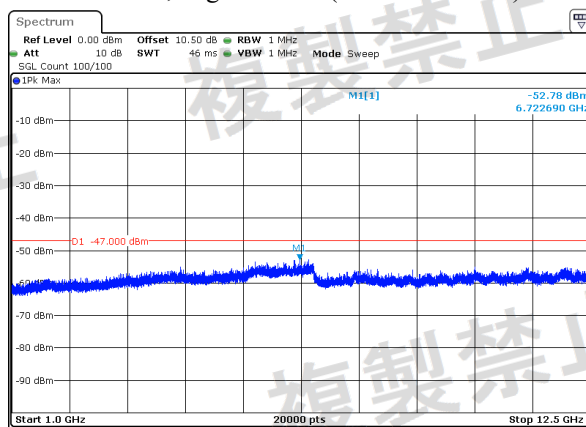
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Date: 6.JUL.2025 01:20:04

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



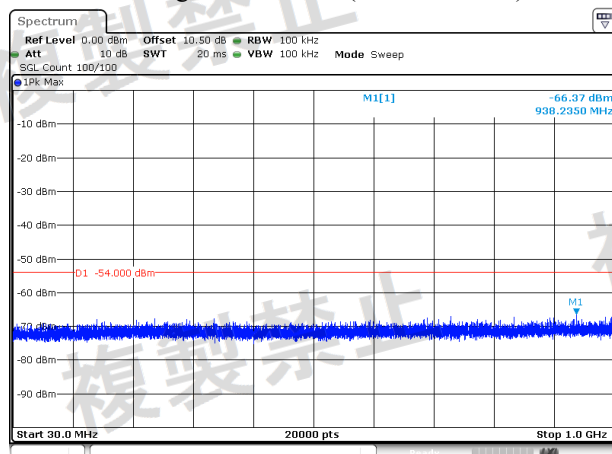
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Date: 6.JUL.2025 01:20:21

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



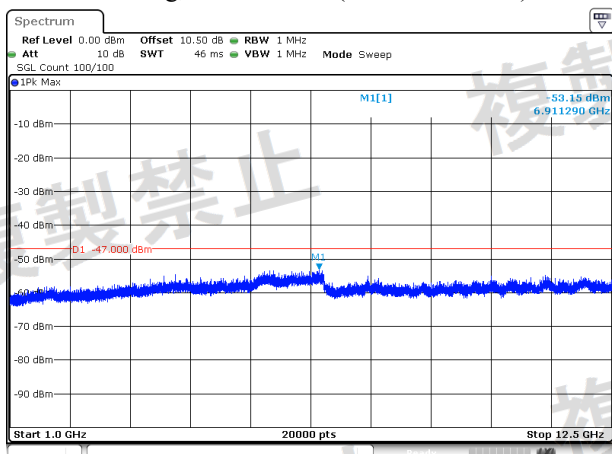
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## 802.11g, Low Channel(30MHz~1GHz)



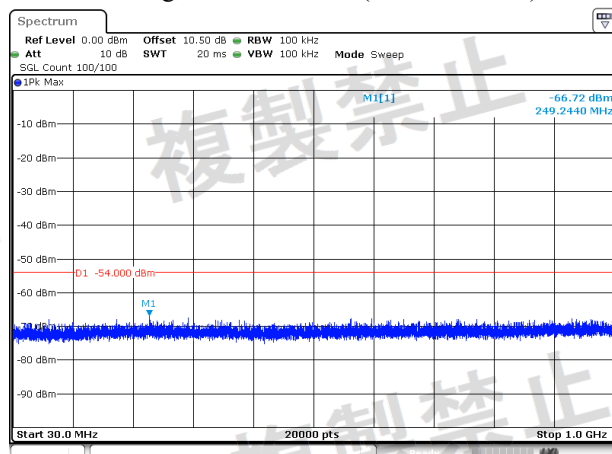
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## 802.11g, Low Channel(1GHz~12.5GHz)



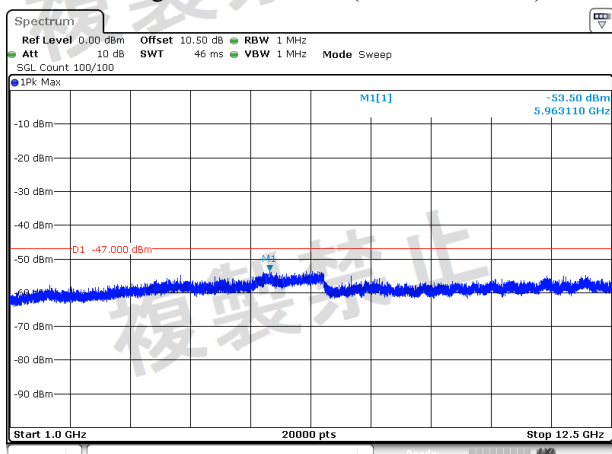
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Date: 6.JUL.2025 01:21:31

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



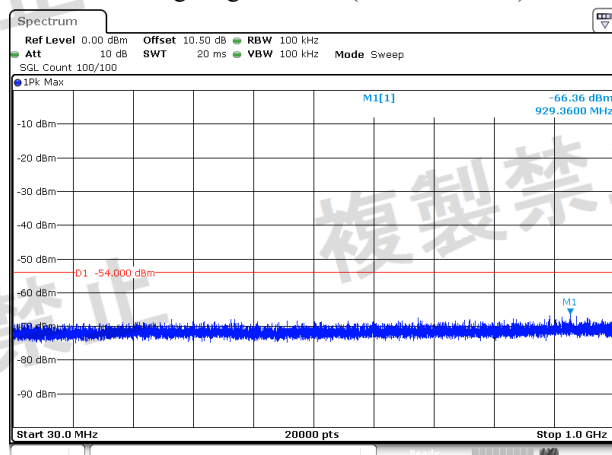
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Date: 6.JUL.2025 01:21:48

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



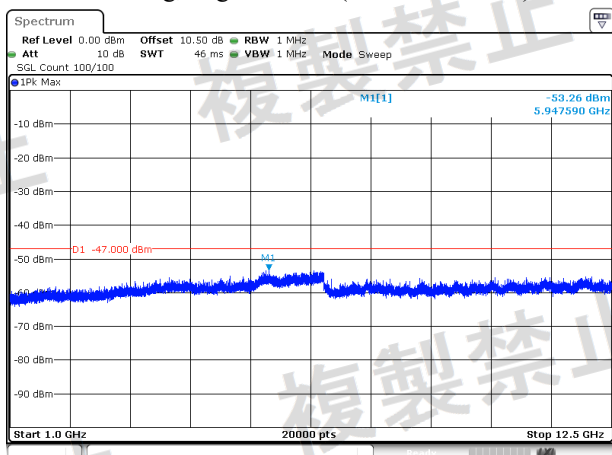
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Date: 6.JUL.2025 01:22:15

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



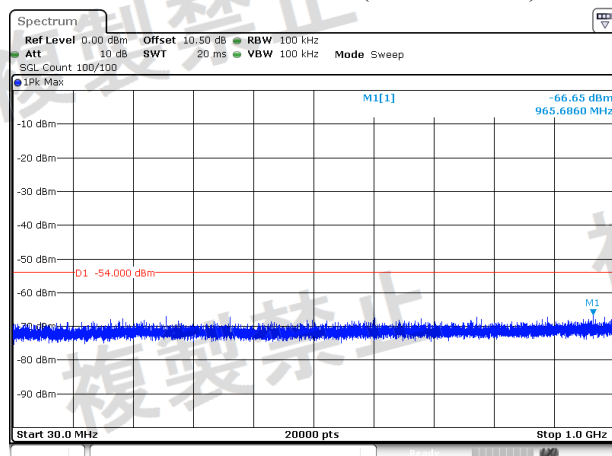
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Date: 6.JUL.2025 01:22:31

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



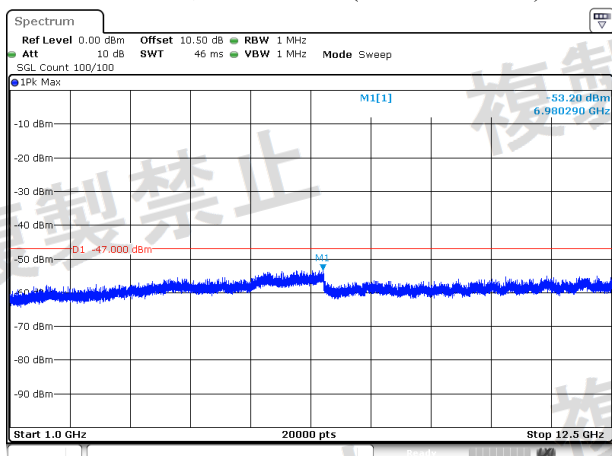
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:22:58

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



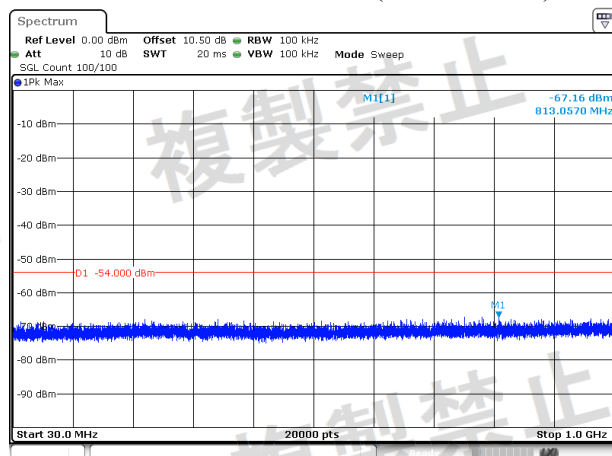
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Date: 6.JUL.2025 01:23:15

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



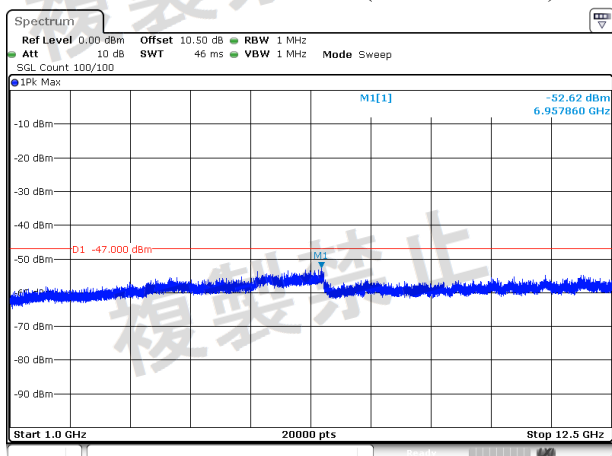
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Date: 6.JUL.2025 01:23:41

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



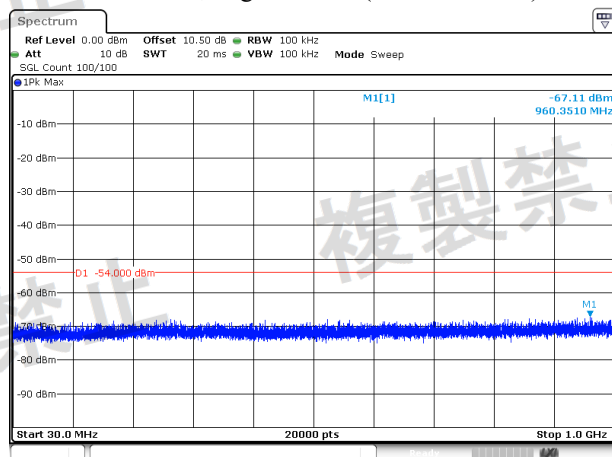
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Date: 6.JUL.2025 01:23:58

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



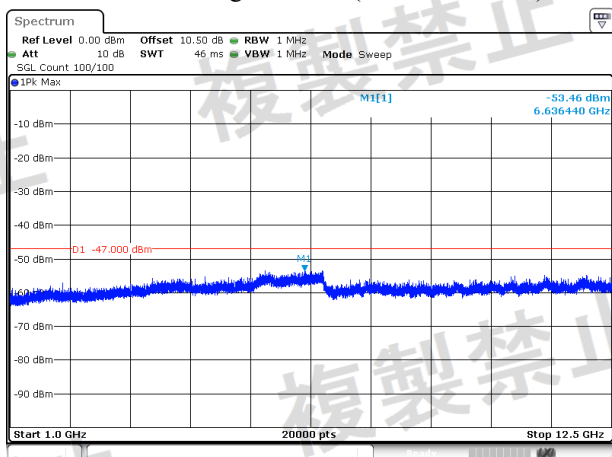
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Date: 6.JUL.2025 01:24:25

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



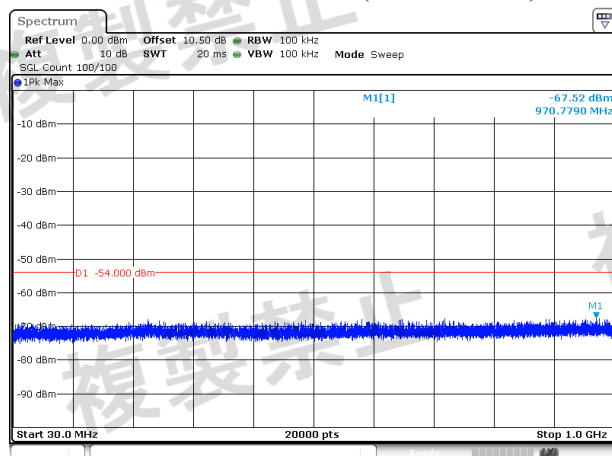
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:24:42

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



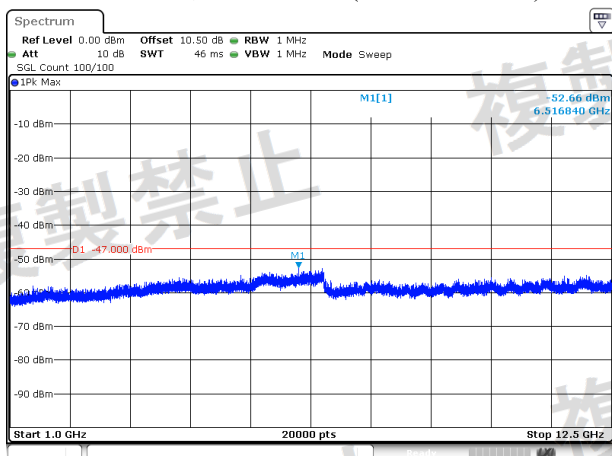
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:25:08

## 802.11n40, Low Channel(30MHz~1GHz)



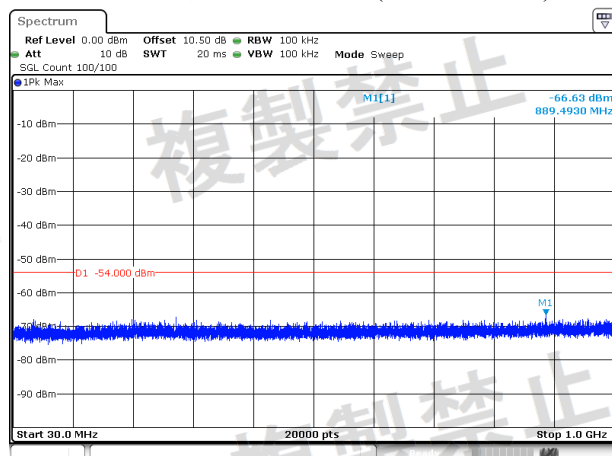
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:25:25

## 802.11n40, Low Channel(1GHz~12.5GHz)



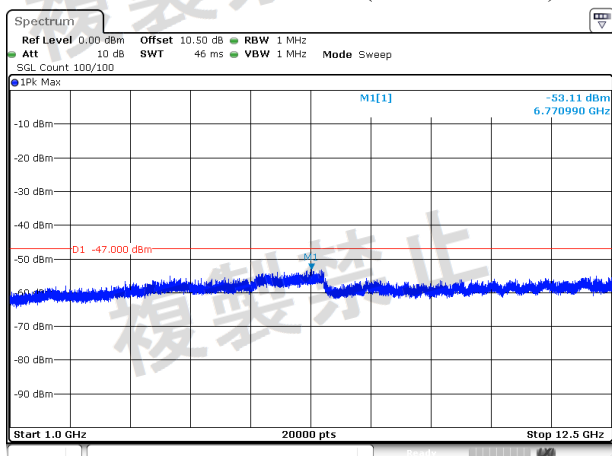
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:28:52

## 802.11n40, Middle Channel(30MHz~1GHz)



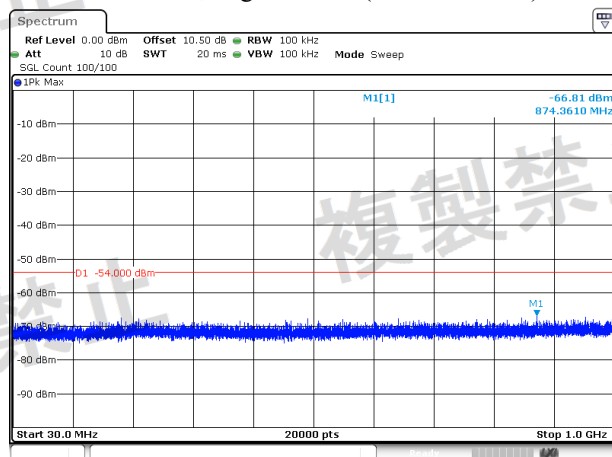
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:26:09

## 802.11n40, Middle Channel(1GHz~12.5GHz)



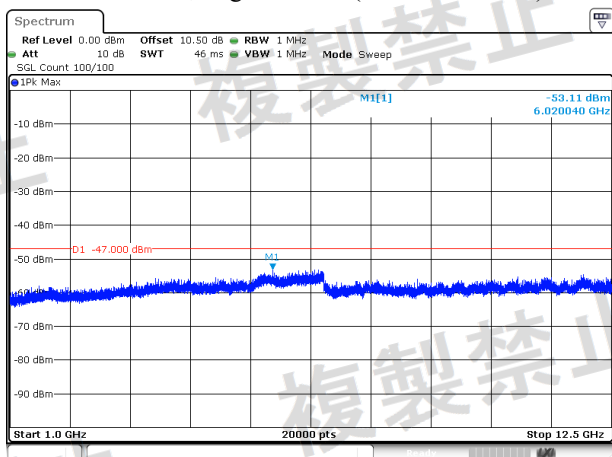
ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:26:35

## 802.11n40, High Channel(30MHz~1GHz)



ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:26:53

## 802.11n40, High Channel(1GHz~12.5GHz)



ProjectNo.:2501U09444E-RF Tester:Kungfumaater Liang  
Date: 6.JUL.2025 01:27:19

**Carrier Sensing Function****Test Information:**

|                    |                    |                     |              |
|--------------------|--------------------|---------------------|--------------|
| <b>Sample No.:</b> | 34PW-1             | <b>Test Date:</b>   | 2025/07/06   |
| <b>Test Site:</b>  | RF                 | <b>Test Mode:</b>   | Transmitting |
| <b>Tester:</b>     | Kungfumaster Liang | <b>Test Result:</b> | Pass         |

**Environmental Conditions:**

|                             |      |                                  |    |                               |       |
|-----------------------------|------|----------------------------------|----|-------------------------------|-------|
| <b>Temperature:</b><br>(°C) | 25.8 | <b>Relative Humidity:</b><br>(%) | 57 | <b>ATM Pressure:</b><br>(kPa) | 101.7 |
|-----------------------------|------|----------------------------------|----|-------------------------------|-------|

**Interference Prevention Function****Test Information:**

|                    |                    |                     |               |
|--------------------|--------------------|---------------------|---------------|
| <b>Sample No.:</b> | 34PW-1             | <b>Test Date:</b>   | 2025/07/06    |
| <b>Test Site:</b>  | RF                 | <b>Test Mode:</b>   | Communicating |
| <b>Tester:</b>     | Kungfumaster Liang | <b>Test Result:</b> | Good          |

**Environmental Conditions:**

|                             |      |                                  |    |                               |       |
|-----------------------------|------|----------------------------------|----|-------------------------------|-------|
| <b>Temperature:</b><br>(°C) | 25.8 | <b>Relative Humidity:</b><br>(%) | 57 | <b>ATM Pressure:</b><br>(kPa) | 101.7 |
|-----------------------------|------|----------------------------------|----|-------------------------------|-------|

## 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 Method

The EUT has screws which can't be opened easily, please see the EUT photos.

## **EUT PHOTOGRAPHS**

Please refer to the attachment 2501U09444E-RF External photo and 2501U09444E-RF Internal photo.

## TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501U09444E-RF-07-TSP Test Setup photo.

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