

FCC Test Report

**Test Report
On Behalf of
ZhongShan JOBR Electronic Technology Co.,LTD
For
Phone Monitor Screen
Model No.: JR-08**

FCC ID: 2BQFS-JR-08

Prepared For: **ZhongShan JOBR Electronic Technology Co.,LTD
802 Building 2, No.1 Satan South Road, TanZhou Town, ZhongShan City,
Guangdong, China**

Prepared By: **Shenzhen HUAK Testing Technology Co., Ltd.
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China**

Date of Test: **Apr. 21, 2025 ~ June 06, 2025**

Date of Report: **June 06, 2025**

Report Number: **HK2504212047-2E**

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Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Test Result Certification

Applicant's Name: ZhongShan JOBR Electronic Technology Co.,LTD

Address: 802 Building 2, No.1 Satan South Road, TanZhou Town,
ZhongShan City, Guangdong, China

Manufacturer's Name: ZhongShan JOBR Electronic Technology Co.,LTD

Address: 802 Building 2, No.1 Satan South Road, TanZhou Town,
ZhongShan City, Guangdong, China

Product Description

Trade Mark: N/A

Product Name.....: Phone Monitor Screen

Model and/or Type Reference : JR-08

Standards: FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.10: 2013

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Date of Test.....:

Date (s) of Performance of Tests: **Apr. 21, 2025 ~ June 06, 2025**

Date of Issue.....: **June 06, 2025**

Test Result.....: **Pass**

Testing Engineer


Len Liao

Technical Manager


Sliver Wan

Authorized Signatory


Jason Zhou

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** Modified History **

| Revision | Description | Issued Data | Remark |
|--------------|-----------------------------|---------------|------------|
| Revision 1.0 | Initial Test Report Release | June 06, 2025 | Jason Zhou |
| | | | |
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1. Test Result Summary

1.1 Test Procedures and Results

| Requirement | CFR 47 Section | Result |
|----------------------------------|-----------------------|--------|
| Antenna Requirement | §15.203/§15.247(b)(4) | PASS |
| AC Power Line Conducted Emission | §15.207 | PASS |
| Conducted Peak Output Power | §15.247(b)(3) | PASS |
| 6dB Emission Bandwidth | §15.247(a)(2) | PASS |
| Power Spectral Density | §15.247(e) | PASS |
| Band Edge | §15.247(d) | PASS |
| Spurious Emission | §15.205/§15.209 | PASS |

Note:

1. **PASS:** Test item meets the requirement.
2. **Fail:** Test item does not meet the requirement.
3. **N/A:** Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

1.2 Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization :

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

1.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

| No. | Item | MU |
|-----|-------------------------------|-------------------------|
| 1 | Conducted Emission | $\pm 2.71\text{dB}$ |
| 2 | RF Power, Conducted | $\pm 0.37\text{dB}$ |
| 3 | Spurious Emissions, Conducted | $\pm 0.11\text{dB}$ |
| 4 | All Emissions, Radiated(<1G) | $\pm 3.90\text{dB}$ |
| 5 | All Emissions, Radiated(>1G) | $\pm 4.28\text{dB}$ |
| 6 | Temperature | $\pm 0.1^\circ\text{C}$ |
| 7 | Humidity | $\pm 1.0\%$ |



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2. EUT Description

2.1 General Description of EUT

| | |
|--|--|
| Equipment: | Phone Monitor Screen |
| Model Name: | JR-08 |
| Series Model(s): | N/A |
| Model Difference: | N/A |
| FCC ID: | 2BQFS-JR-08 |
| Antenna Type: | FPC Antenna |
| Antenna Gain: | 4.2dBi |
| Operation Frequency: | 802.11b/g/n 20:2412~2462 MHz 802.11n 40: 2422~2452MHz |
| Number of Channels: | 802.11b/g/n20: 11CH 802.11n 40: 7CH |
| Modulation Type: | DSSS, OFDM |
| Power Source: | DC5V from Type-C or DC3.7V from battery |
| Power Rating: | DC5V from Type-C or DC3.7V from battery |
| <p>Note:</p> <ol style="list-style-type: none">1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.2. Antenna gain Refer to the antenna specifications.3. The cable loss data is obtained from the supplier.4. The test results in the report only apply to the tested sample. | |

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2.2 Carrier Frequency of Channels

| Channel List For 802.11b/802.11g/802.11n (HT20) | | | | | | | |
|---|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01 | 2412 | 04 | 2427 | 07 | 2442 | 10 | 2457 |
| 02 | 2417 | 05 | 2432 | 08 | 2447 | 11 | 2462 |
| 03 | 2422 | 06 | 2437 | 09 | 2452 | -- | -- |

| Channel List For 802.11n (HT40) | | | | | | | |
|---------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| -- | -- | 04 | 2427 | 07 | 2442 | -- | -- |
| -- | -- | 05 | 2432 | 08 | 2447 | -- | -- |
| 03 | 2422 | 06 | 2437 | 09 | 2452 | -- | -- |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

2.3 Operation of EUT during Testing

Operating Mode

The mode is used: Transmitting mode for 802.11b/802.11g/802.11n (HT20)

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

The mode is used: Transmitting mode for 802.11n (HT40)

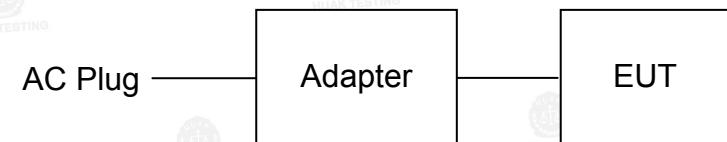
Low Channel: 2422MHz

Middle Channel: 2437MHz

High Channel: 2452MHz

2.4 Description of Test Setup

Operation of EUT during AC Conducted and Radiation below 1GHz testing:



Operation of EUT during Radiation above 1GHz testing:



Operation of EUT during RF Conducted testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



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3. General Information

3.1 Test Environment and Mode

Operating Environment:

| | |
|-----------------------|-----------|
| Temperature: | 25.0 °C |
| Humidity: | 56 % RH |
| Atmospheric Pressure: | 1010 mbar |

Test Mode:

| | |
|-------------------|---|
| Engineering Mode: | Keep the EUT in continuous transmitting by select channel and modulations |
|-------------------|---|

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

| Mode | Data rate |
|---------------|-----------|
| 802.11b | 1Mbps |
| 802.11g | 6Mbps |
| 802.11n(HT20) | 6.5Mbps |
| 802.11n(HT40) | 13.5Mbps |

Final Test Mode:

| | |
|-----------------|---|
| Operation Mode: | Keep the EUT in continuous transmitting with modulation |
|-----------------|---|

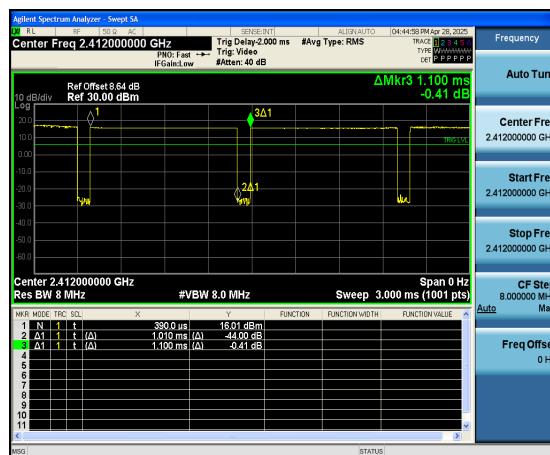
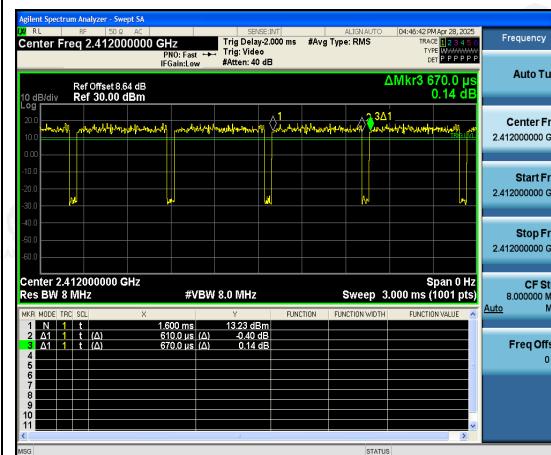
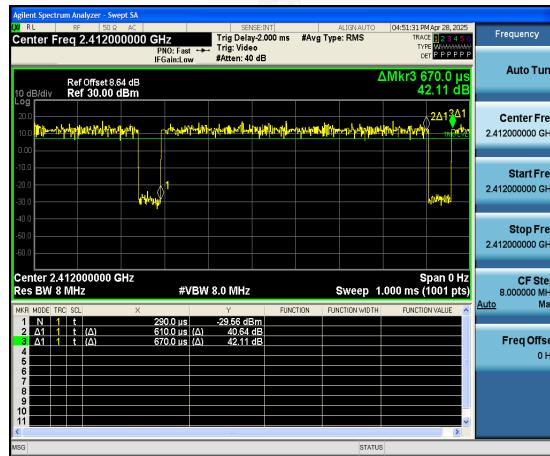
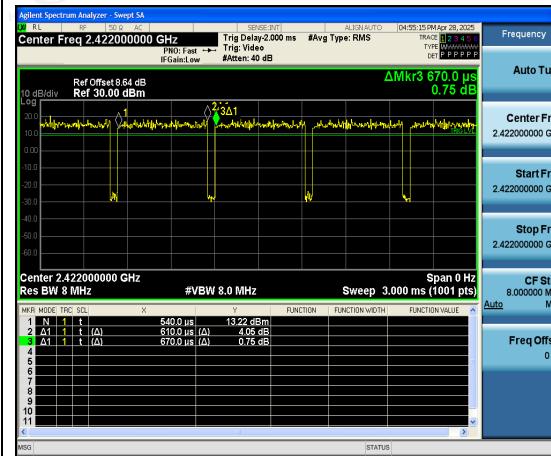
1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

2. According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(HT20), 13.5Mbps for 802.11n(HT40).

3. Mode Test Duty Cycle

| Mode | Duty Cycle |
|---------------|------------|
| 802.11b | 0.918 |
| 802.11g | 0.910 |
| 802.11n(HT20) | 0.910 |
| 802.11n(HT40) | 0.910 |

Test plots as follows:

**802.11b****802.11g****802.11n(HT20)****802.11n(HT40)**

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4. Test Results and Measurement Data

4.1 AC Conducted Emission

Test Specification

| Test Requirement: | FCC Part15 C Section 15.207 | | | | | | | | | | | | | | |
|--------------------------|---|--------------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Test Method: | ANSI C63.10:2013 | | | | | | | | | | | | | | |
| Frequency Range: | 150 kHz to 30 MHz | | | | | | | | | | | | | | |
| Receiver Setup: | RBW=9 kHz, VBW=30 kHz, Sweep time=auto | | | | | | | | | | | | | | |
| Limits: | <table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> | Frequency range (MHz) | Limit (dBuV) | | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dBuV) | | | | | | | | | | | | | | |
| | Quasi-peak | Average | | | | | | | | | | | | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | | | | | | | | | | | | |
| 0.5-5 | 56 | 46 | | | | | | | | | | | | | |
| 5-30 | 60 | 50 | | | | | | | | | | | | | |
| Test Setup: | <p>Reference Plane</p> <p>40cm</p> <p>E.U.T — AC power</p> <p>Test table/Insulation plane</p> <p>LISN</p> <p>Filter — AC power</p> <p>EMI Receiver</p> <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p> | | | | | | | | | | | | | | |
| Test Mode: | Transmitting with modulation | | | | | | | | | | | | | | |
| Test Procedure: | <ol style="list-style-type: none"> 1. The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. | | | | | | | | | | | | | | |
| Test Result: | PASS | | | | | | | | | | | | | | |

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**Test Instruments**

| Conducted Emission Shielding Room Test Site (843) | | | | | |
|---|--------------|-----------------|---------------|------------------|-----------------|
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Receiver | R&S | ESR | HKE-005 | Feb. 19, 2025 | Feb. 18, 2026 |
| LISN | R&S | ENV216 | HKE-002 | Feb. 19, 2025 | Feb. 18, 2026 |
| LISN | R&S | ENV216 | HKE-059 | Feb. 19, 2025 | Feb. 18, 2026 |
| Coax cable (9KHz-30MHz) | Times | 381806-002 | N/A | Feb. 19, 2025 | Feb. 18, 2026 |
| EMI Test Software | Tonscend | JS32-CE 2.5.0.6 | HKE-081 | Feb. 19, 2025 | Feb. 18, 2026 |
| 10dB Attenuator | Schwarzbeck | VTSD9561F | HKE-153 | Feb. 19, 2025 | Feb. 18, 2026 |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

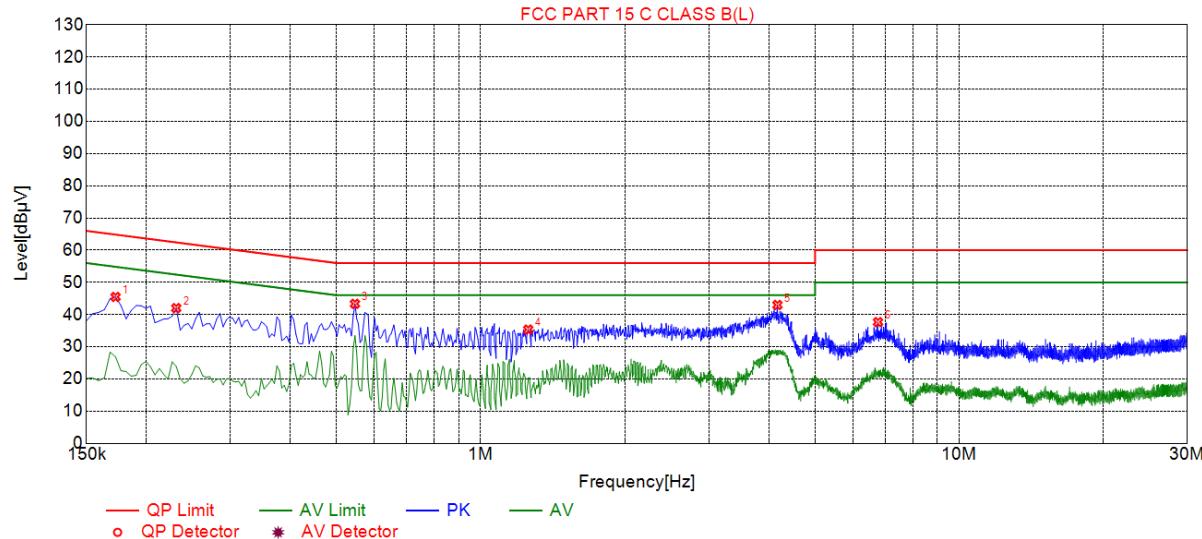


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4.2 Test Result

Test Specification: Line



Suspected List

| NO. | Freq. [MHz] | Level [dB μ V] | Factor [dB] | Limit [dB μ V] | Margin [dB] | Reading [dB μ V] | Detector | Type |
|-----|-------------|--------------------|-------------|--------------------|-------------|----------------------|----------|------|
| 1 | 0.1725 | 45.47 | 19.67 | 64.84 | 19.37 | 25.80 | PK | L |
| 2 | 0.2310 | 42.01 | 19.83 | 62.41 | 20.40 | 22.18 | PK | L |
| 3 | 0.5460 | 43.35 | 19.81 | 56.00 | 12.65 | 23.54 | PK | L |
| 4 | 1.2570 | 35.34 | 19.87 | 56.00 | 20.66 | 15.47 | PK | L |
| 5 | 4.1730 | 42.99 | 20.36 | 56.00 | 13.01 | 22.63 | PK | L |
| 6 | 6.7695 | 37.67 | 20.40 | 60.00 | 22.33 | 17.27 | PK | L |

Remark: Margin = Limit – Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

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4.3 Maximum Peak Conducted Output Power

Test Specification

| | |
|--------------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3) |
| Test Method: | KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Limit: | 30dBm |
| Test Setup: |  <p>The diagram illustrates the test setup. On the left, a green rectangular box represents the 'RF automatic control unit'. On the right, a yellow rectangular box represents the 'EUT'. A grey horizontal line with circular ports at both ends connects the two units. Below the green box, the text 'RF automatic control unit' is written in blue. Below the yellow box, the text 'EUT' is written in blue. The entire diagram is set against a light grey background with the 'HUAK TESTING' logo in the top right corner.</p> |
| Test Mode: | Transmitting mode with modulation |
| Test Procedure: | <ol style="list-style-type: none">1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 15.247 Meas Guidance v05r02.2. The RF output of EUT was connected to the RF automatic control unit by RF cable. The path loss was compensated to the results for each measurement.3. Set to the maximum power setting and enable the EUT transmit continuously.4. Measure the Peak output power and record the results in the test report. |
| Test Result: | PASS |

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Test Instruments

| RF Test Room | | | | | |
|---------------------------|--------------|-------------------------|---------------|------------------|-----------------|
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Spectrum analyzer | Agilent | N9020A | HKE-025 | Feb. 19, 2025 | Feb. 18, 2026 |
| Power meter | Agilent | E4419B | HKE-085 | Feb. 19, 2025 | Feb. 18, 2026 |
| Power Sensor | Agilent | E9300A | HKE-086 | Feb. 19, 2025 | Feb. 18, 2026 |
| RF cable | Times | 1-40G | HKE-034 | Feb. 19, 2025 | Feb. 18, 2026 |
| RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Feb. 19, 2025 | Feb. 18, 2026 |
| RF Test Software | Tonscend | JS1120-3 Version 3.5.39 | HKE-083 | N/A | N/A |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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Test Data

| Mode | Test Channel | Frequency | Maximum Peak Conducted Output Power | LIMIT |
|---------------|--------------|-----------|-------------------------------------|-------|
| | | (MHz) | (dBm) | (dBm) |
| 802.11b | CH01 | 2412 | 12.91 | 30 |
| 802.11b | CH06 | 2437 | 12.31 | 30 |
| 802.11b | CH11 | 2462 | 13.38 | 30 |
| 802.11g | CH01 | 2412 | 11.85 | 30 |
| 802.11g | CH06 | 2437 | 12.02 | 30 |
| 802.11g | CH11 | 2462 | 13.13 | 30 |
| 802.11n(HT20) | CH01 | 2412 | 11.80 | 30 |
| 802.11n(HT20) | CH06 | 2437 | 11.83 | 30 |
| 802.11n(HT20) | CH11 | 2462 | 12.21 | 30 |
| 802.11n(HT40) | CH03 | 2422 | 11.23 | 30 |
| 802.11n(HT40) | CH06 | 2437 | 11.83 | 30 |
| 802.11n(HT40) | CH09 | 2452 | 12.71 | 30 |

Note: The test results including the cable loss.

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4.4 Emission Bandwidth

Test Specification

Test Instruments

| RF Test Room | | | | | |
|---------------------------|--------------|----------------------------|---------------|------------------|-----------------|
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Spectrum analyzer | Agilent | N9020A | HKE-025 | Feb. 19, 2025 | Feb. 18, 2026 |
| RF cable | Times | 1-40G | HKE-034 | Feb. 19, 2025 | Feb. 18, 2026 |
| RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Feb. 19, 2025 | Feb. 18, 2026 |
| RF Test Software | Tonscend | JS1120-3 Version 3.5.39 | HKE-083 | N/A | N/A |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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Test Data

| Test Channel | 6dB Emission Bandwidth (MHz) | | | |
|--------------|------------------------------|---------|---------------|---------------|
| | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) |
| Lowest | 8.560 | 16.360 | 17.120 | 35.600 |
| Middle | 8.520 | 16.320 | 17.000 | 35.120 |
| Highest | 8.080 | 16.320 | 17.040 | 35.920 |
| Limit: | >500kHz | | | |
| Test Result: | PASS | | | |

Test plots as follows:



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Lowest channel



Middle channel



Highest channel



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802.11g Modulation

Lowest channel



Middle channel



Highest channel

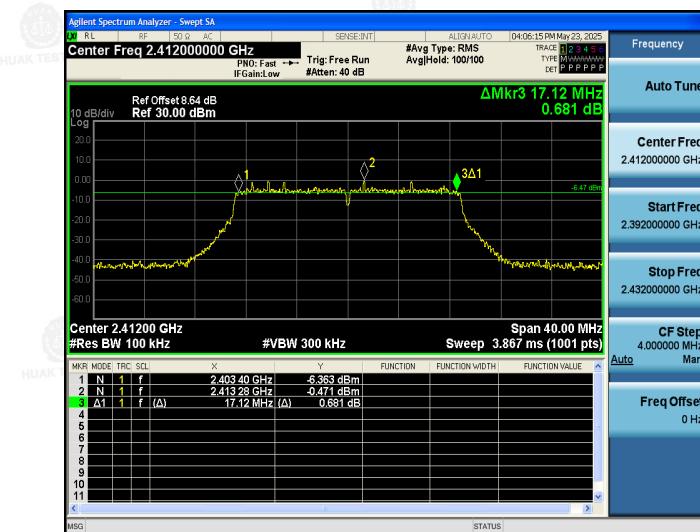


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802.11n (HT20) Modulation

Lowest channel



Middle channel



Highest channel



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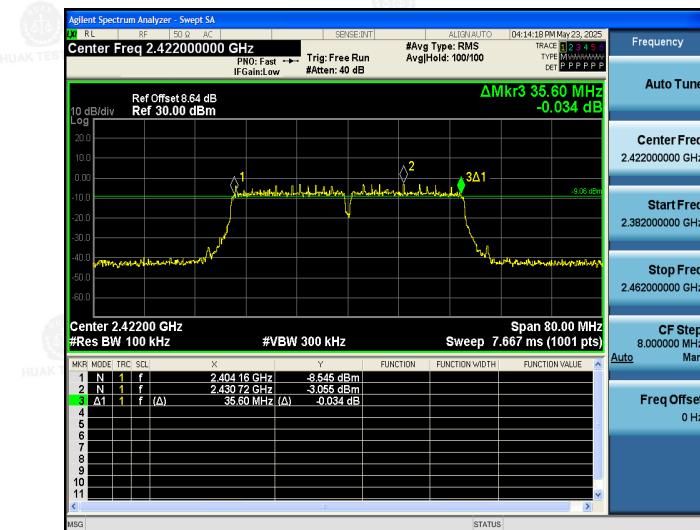
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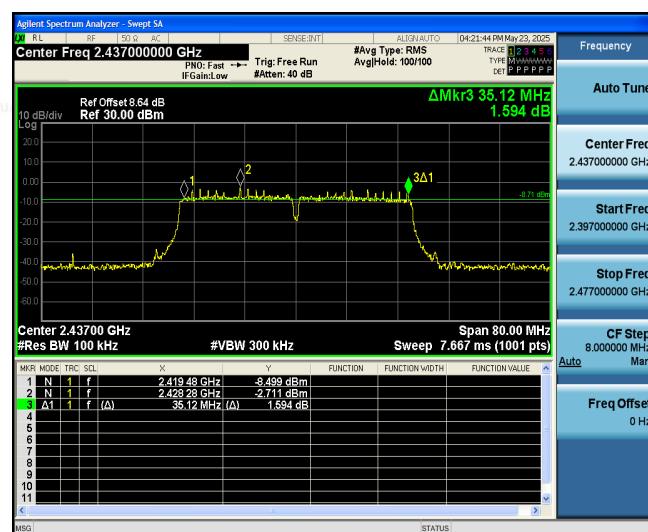


802.11n (HT40) Modulation

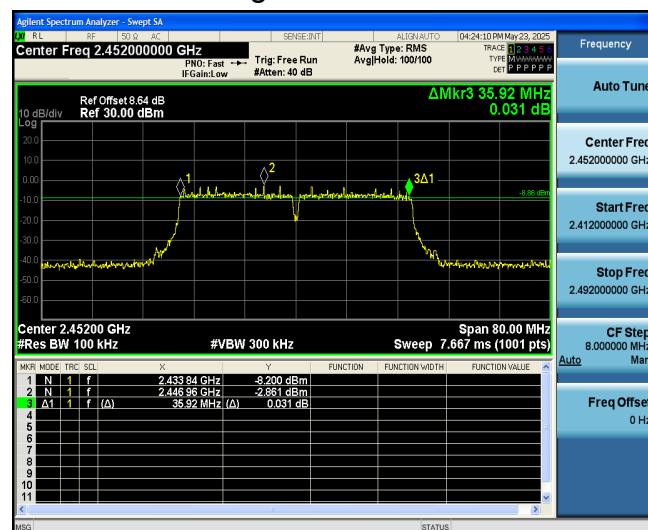
Lowest channel



Middle channel



Highest channel



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4.5 Power Spectral Density

Test Specification

| | |
|--------------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (e) |
| Test Method: | KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Limit: | The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission. |
| Test Setup: |  <p>Spectrum Analyzer — EUT</p> |
| Test Mode: | Transmitting mode with modulation |
| Test Procedure: | <ol style="list-style-type: none"> 1. The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$. Video bandwidth VBW $\geq 3 \times \text{RBW}$. Set the span to at least 1.5 times the OBW. 5. Detector = Peak, Sweep time = auto couple. 6. Employ trace averaging (Peak) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. 7. Measure and record the results in the test report. |
| Test Result: | PASS |

Test Instruments

RF Test Room

| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
|---------------------------|--------------|-------------------------------|---------------|------------------|-----------------|
| Spectrum analyzer | Agilent | N9020A | HKE-025 | Feb. 19, 2025 | Feb. 18, 2026 |
| RF cable | Times | 1-40G | HKE-034 | Feb. 19, 2025 | Feb. 18, 2026 |
| RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Feb. 19, 2025 | Feb. 18, 2026 |
| RF Test Software | Tonscend | JS1120-3 Version 3.5.39 | HKE-083 | N/A | N/A |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Test Data

| EUT Set Mode | Channel | Result (dBm/30KHz) | Result (dBm/3kHz) |
|--|---------|--------------------|-------------------|
| 802.11b | Lowest | -0.20 | -10.20 |
| | Middle | 0.07 | -9.93 |
| | Highest | -0.99 | -10.99 |
| 802.11g | Lowest | -4.89 | -14.89 |
| | Middle | -4.84 | -14.84 |
| | Highest | -4.57 | -14.57 |
| 802.11n(HT20) | Lowest | -5.39 | -15.39 |
| | Middle | -5.51 | -15.51 |
| | Highest | -4.71 | -14.71 |
| 802.11n(HT40) | Lowest | -5.71 | -15.71 |
| | Middle | -6.75 | -16.75 |
| | Highest | -5.76 | -15.76 |
| PSD Test Result (dBm/3kHz)= PSD Test Result (dBm/30kHz)-10 | | | |
| Limit: 8dBm/3kHz | | | |
| Test Result: | PASS | | |

Test plots as follows:



Lowest channel



Middle channel



Highest channel



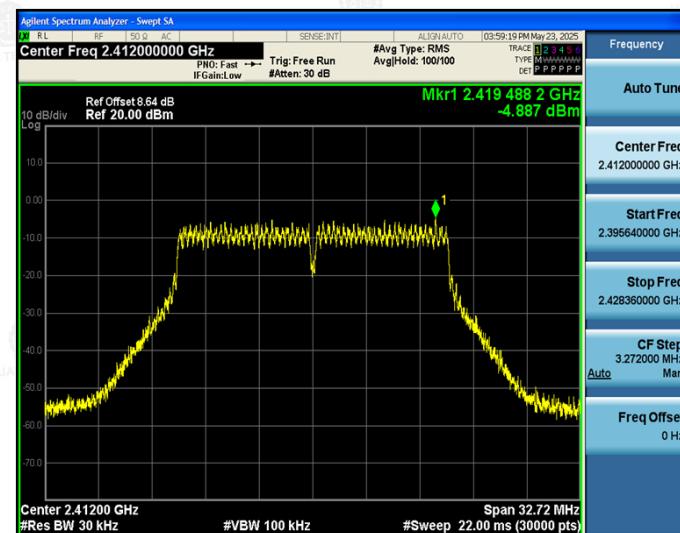
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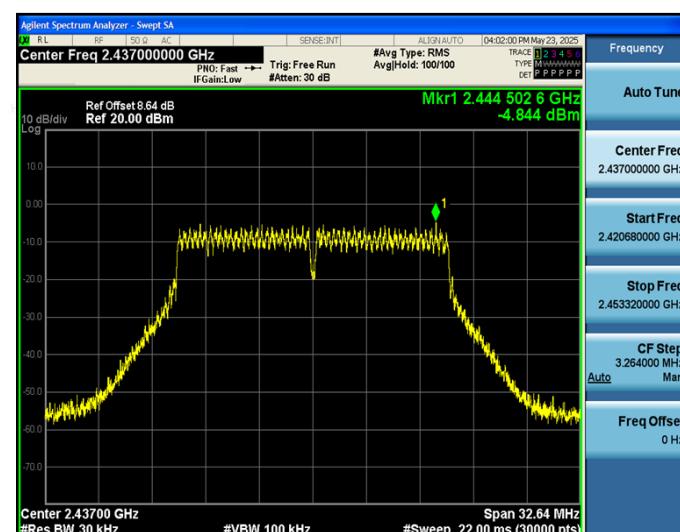
Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



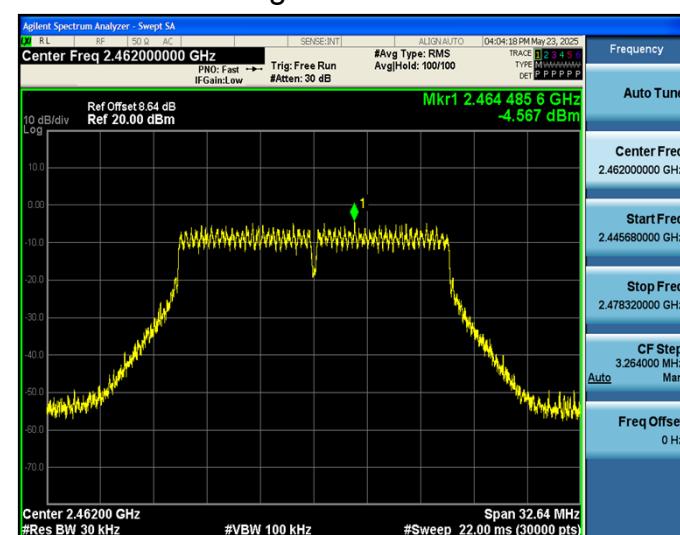
Lowest channel



Middle channel



Highest channel



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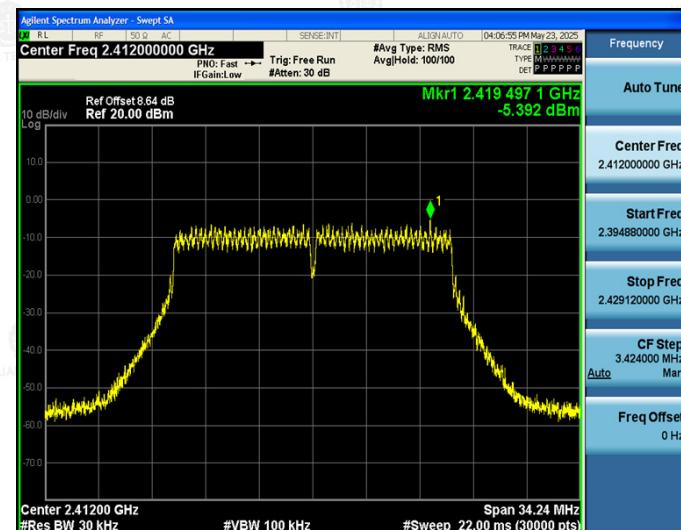
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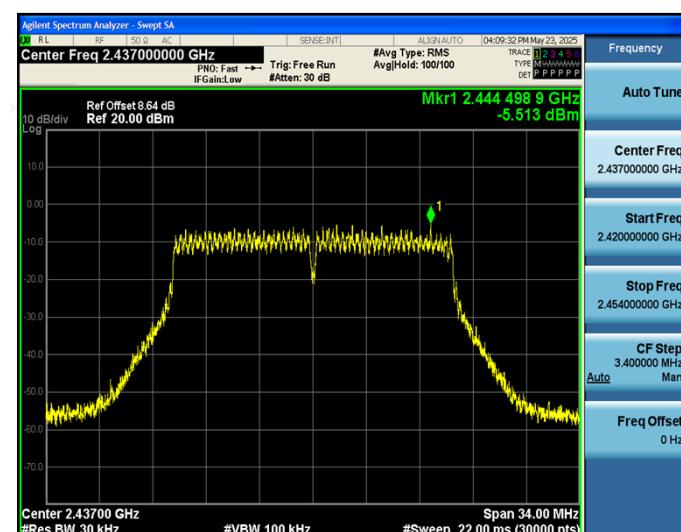


802.11n (HT20) Modulation

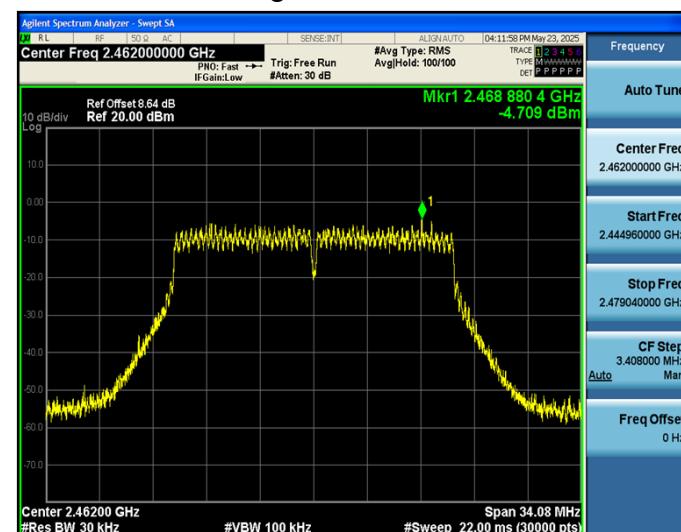
Lowest channel



Middle channel



Highest channel



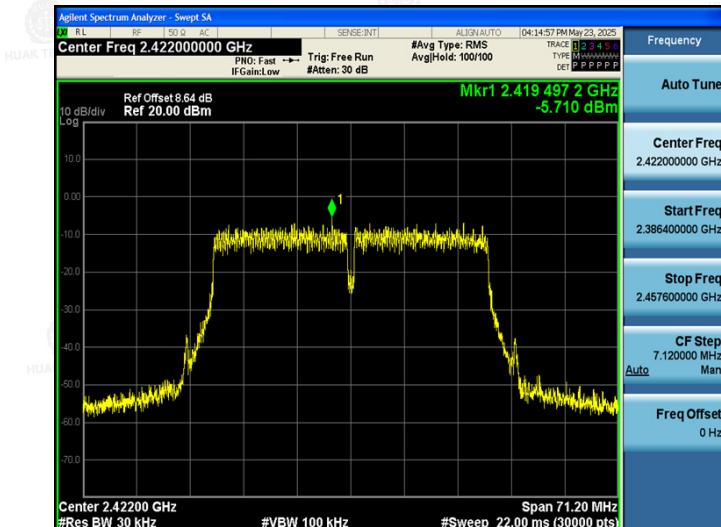
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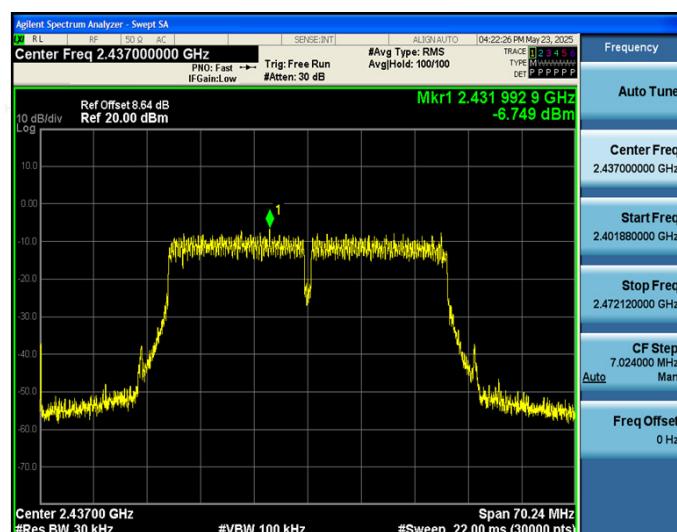
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802.11n (HT40) Modulation

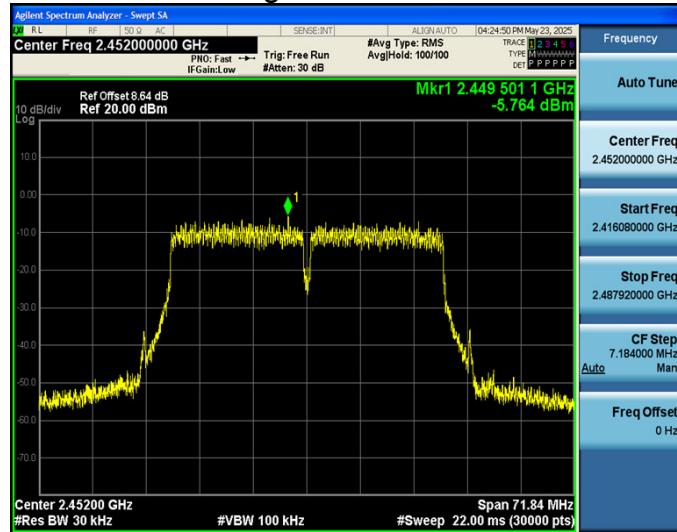
Lowest channel



Middle channel



Highest channel



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