

FCC Test Report

Test report On Behalf of Shenzhen Yidian International Digital Co., LTD For

Wifi Camera

Model No.: SM04, SM05, SM06, SM07, SM08, SM09, SM10, SM110, SM12, SK16, SK17, SK18, SK19, SK20, SK21, SK22, SK23, SK24, SK25, SK26, SK27, SK28

FCC ID: 2BCLC-SM04

Prepared For: Shenzhen Yidian International Digital Co., LTD

Floor 3, Block B, Gushu Runfeng Industrial Park, Xixiang Street, Bao'an District,

Shenzhen, 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. 15, 2025 ~ Apr. 25, 2025

Date of Report: Apr. 25, 2025

Report Number: HK2504151891-2E

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Test Result Certification

Floor 3, Block B, Gushu Runfeng Industrial Park, Xixiang Street,

Bao'an District, Shenzhen, China

Manufacturer's Name Shenzhen Yidian International Digital Co., LTD

Floor 3, Block B, Gushu Runfeng Industrial Park, Xixiang Street,

Bao'an District, Shenzhen, China

Product description

Trade Mark: N/A

Product name...... Wifi Camera

SM04, SM05, SM06, SM07, SM08, SM09, SM10, SM110, SM12,

Series Models SK16, SK17, SK18, SK19, SK20, SK21, SK22, SK23, SK24,

SK25, SK26, SK27, SK28

Standards FCC Rules and Regulations Part 15 Subpart E Section 15.407

ANSI C63.10: 2013

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Date of Test

Date (s) of performance of tests Apr. 15, 2025 ~ Apr. 25, 2025

Date of Issue Apr. 25, 2025

Test Result..... Pass

Testing Engineer

(Len Liao)

Technical Manager

Report No.: HK2504151891-2E

(Sliver Wan)

Authorized Signatory:

(Jason Zhou)

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** Modified History **

| Revision | Description | Issued Data | Remark |
|---------------|-----------------------------|---------------|------------|
| Revision 1.0 | Initial Test Report Release | Apr. 25, 2025 | Jason Zhou |
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| Or HOL | HOW | HOM | HOW HOW |

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1. Test Result Summary

1.1. Test Procedures and Results

| Requirement | CFR 47 Section | Result |
|---|--------------------------|--------|
| Antenna requirement | §15.203 | PASS |
| AC Power Line Conducted Emission | §15.207 | PASS |
| Maximum Conducted Output Power | §15.407(a) | PASS |
| 6dB Emission Bandwidth | §15.407(e) | N/A |
| 26dB Emission Bandwidth& 99% Occupied Bandwidth | §15.407(a) | PASS |
| Power Spectral Density | §15.407(a) | PASS |
| Band edge | §15.407(b)/15.209/15.205 | PASS |
| Radiated Emission | §15.407(b)/15.209/15.205 | PASS |
| Frequency Stability | §15.407(g) | 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.

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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

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confidence of approximately 95 %.

| No. | Item | MU |
|-----|-------------------------------|---------|
| 1 | Conducted Emission | ±0.37dB |
| | RF power, conducted | ±3.35dB |
| 3 | Spurious emissions, conducted | ±2.20dB |
| 4 | All emissions, radiated(<1G) | ±3.90dB |
| 5 | All emissions, radiated(>1G) | ±4.28dB |
| 6 | Temperature | ±0.1°C |
| 7 | Humidity | ±1.0% |

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2. EUT Description

2.1. General Description of EUT

| Equipment | Wifi Camera |
|------------------------|---|
| Model Name | SM04 |
| Serial Models | SM05, SM06, SM07, SM08, SM09, SM10, SM110, SM12, SK16, SK17, SK18, SK19, SK20, SK21, SK22, SK23, SK24, SK25, SK26, SK27, SK28 |
| Model Difference | All model's the function, software and electric circuit are the same, only with product color and model named different. Test sample model: SM04. |
| Trade Mark | N/A |
| FCC ID | 2BCLC-SM04 |
| Operation Frequency: | IEEE 802.11a/n/ac (HT20) 5.180GHz-5.240GHz IEEE 802.11n/ac (HT40) 5.190GHz-5.230GHz |
| Modulation Technology: | IEEE 802.11a/n/ac |
| Modulation Type | 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM |
| Antenna Type | External antenna |
| Antenna Gain | 2.62dBi |
| Power Source | DC 5V From Type-C or DC 3.7V From Battery |
| Power Supply: | DC 5V From Type-C or DC 3.7V From Battery |
| Hardware Version | V2.0 |
| Software Version | V2.0 |

Note: 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. Operation Frequency each of channel

| | a/802.11n/ ac (HT20) | 802.11n/80 | 2.11ac (HT40) |
|---------|-------------------------|------------|---------------|
| Channel | Frequency | Channel | Frequency |
| 36 | 5180 | 38 | 5190 |
| 40 | 5200 | 46 | 5230 |
| 44 | 5220 | JAK TES | 0, |
| 48 | 5240 | | an/G |

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

For 802.11a/n (HT20)/ac(HT20)

| Band I (5150 - 5250 MHz) | | | | |
|--------------------------|---------|-----------------|--|--|
| Channel Number | Channel | Frequency (MHz) | | |
| 36 | Low | 5180 | | |
| 40 | Mid | 5200 | | |
| 48 | High | 5240 | | |

For 802.11n (HT40)/ac(HT40)

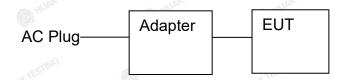
| Band I (5150 - 5250 MHz) | | | | |
|--------------------------|---------|-----------------|--|--|
| Channel Number | Channel | Frequency (MHz) | | |
| 38 | Low | 5190 | | |
| 46 | High | 5230 | | |

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2.4. Description of Test Setup

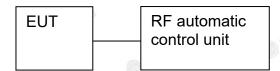
Operation of EUT during AC conducted testing and below 1GHz radiation testing:



Operation of EUT during above1GHz radiation 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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2.5. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Trade Mark | Model/Type No. | Specification | Remark | |
|-----------|-------------|---------------|----------------|--|------------|--|
| 3 1 | Wifi Camera | N/A | SM04 | N/A | EUT | |
| 2 | USB Cable | N/A | N/A | Length:1.2m | Accessory | |
| Marting 3 | Adapter | N/A | MDY-10-EH | Input: 100-240V, 50/60Hz, 0.7A Output: 5V, 3A/9V, 3A/12V, 2.25A/20V, 1.35A | Peripheral | |
| HURY TEST | Adapter | N/A | N/A MARTES IN | Input: 100-240V, 50/60Hz, 0.5A Output: 5VDC, 2A | Peripheral | |
| TESTING | -m/G | , uax | ESTING | WAYTESTING | TING | |

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 26db Bandwidth and 99% Occupied Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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3. Genera Information

3.1. Test environment and mode

| 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:

| Mode | Data rate |
|-------------------------|---|
| 802.11a | 6 Mbps |
| 802.11n(HT20) | MCS0 |
| 802.11n(HT40) | MCS0 |
| 802.11ac(HT20)/ac(HT40) | MCS0 |
| Final Test Mode: | |
| Operation mode: | Keep the EUT in continuous transmitting with modulation |

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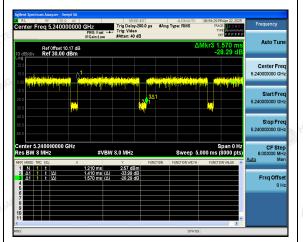
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Mode Test Duty Cycle:

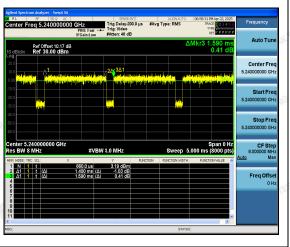
| Mode | Duty Cycle |
|----------------|------------|
| 802.11a | 0.90 |
| 802.11n(HT20) | 0.88 |
| 802.11n(HT40) | 0.89 |
| 802.11ac(HT20) | 0.92 |
| 802.11ac(HT40) | 0.91 |

Test plots as follows:

802.11a

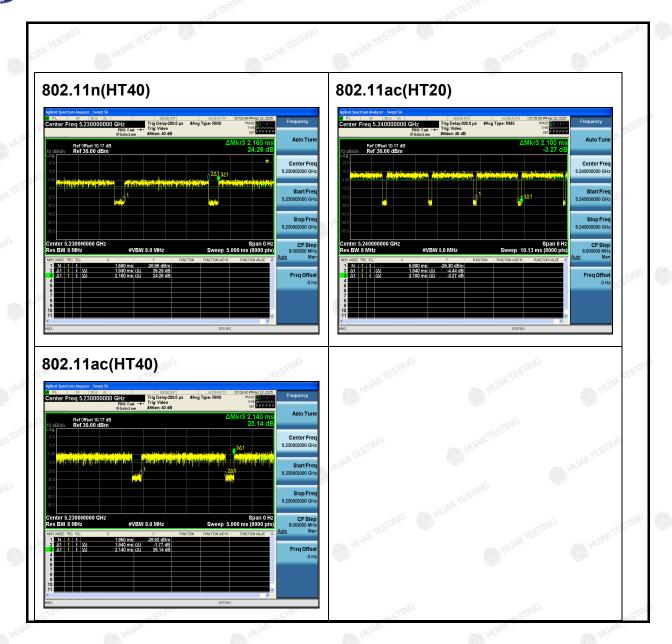


802.11n(HT20)



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4. Test Results and Measurement Data

4.1. AC Power Line Conducted Emission

4.1.1. Test Specification

| - TIME | -cTINE | No. | The The | | | |
|-------------------|---|--|------------------|--|--|--|
| Test Requirement: | FCC Part15 C Section | FCC Part15 C Section 15.207 | | | | |
| Test Method: | ANSI C63.10:2013 | ANSI C63.10:2013 | | | | |
| Frequency Range: | 150 kHz to 30 MHz | MUAK ! | LAKTESTING | | | |
| Receiver setup: | RBW=9 kHz, VBW=30 | kHz, Sweep time | =auto | | | |
| | Frequency range | Limit (d | dBuV) | | | |
| | (MHz) | Quasi-peak | Average | | | |
| Limits: | 0.15-0.5 | 66 to 56* | 56 to 46* | | | |
| | 0.5-5 | 56 | 46 | | | |
| | 5-30 | 60 | 50 | | | |
| | TESTAN TEST | NB | MG KSTI | | | |
| | Referer | nce Plane | MAKEL | | | |
| | 40cm | | | | | |
| | N. TESTIN | | | | | |
| | E.U.T AC pov | E.U.T AC power 80cm LISN | | | | |
| Test Setup: | Filter — AC power | | | | | |
| | Test table/Insulation plane | | | | | |
| | EMI Receiver | | | | | |
| | E.U.T: Equipment Under Test LISN: Line Impedence Stabilization | | | | | |
| | Test table height=0.8m | Test table height=0.8m | | | | |
| | | | | | | |
| Test Mode: | Tx Mode | | | | | |
| | 1. The E.U.T and simu | ulators are connec | cted to the main | | | |
| | power through a line | | | | | |
| | (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 | | | | | |
| Test Procedure: | coupling impedance | | | | | |
| root rootaare. | 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 mea | asurement. | | | |
| Test Result: | Pass | | | | | |
| 3/0 | - NO | | | | | |

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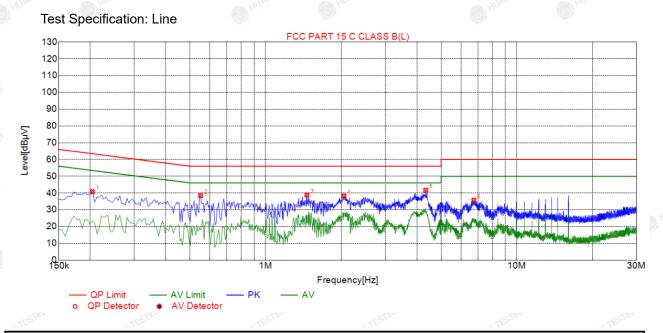
4.1.2. Test Instruments

| 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 | N/A | N/A | |
| 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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4.1.3. Test data



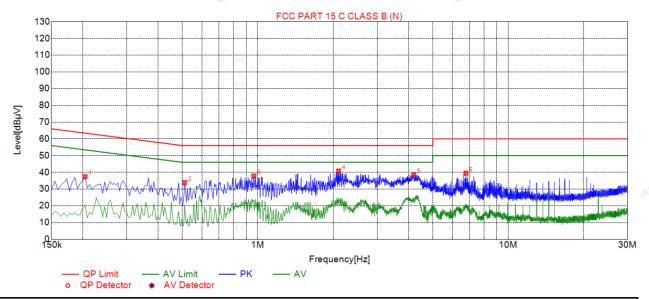
| Sus | Suspected List | | | | | | | | | |
|-----|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|--|--|
| NO. | Freq. [MHz] | Level [dBµ∀] | Factor [dB] | Limit [dBµV] | Margin [dB] | Reading [dBµ∀] | Detector | Туре | | |
| 1 | 0.2040 | 40.82 | 19.84 | 63.45 | 22.63 | 20.98 | PK | L | | |
| 2 | 0.5505 | 38.41 | 19.81 | 56.00 | 17.59 | 18.60 | PK | L | | |
| 3 | 1.4595 | 38.85 | 19.94 | 56.00 | 17.15 | 18.91 | PK | L | | |
| 4 | 2.0490 | 38.26 | 20.15 | 56.00 | 17.74 | 18.11 | PK | L | | |
| 5 | 4.3395 | 41.64 | 20.36 | 56.00 | 14.36 | 21.28 | PK | L | | |
| 6 | 6.7515 | 35.75 | 20.40 | 60.00 | 24.25 | 15.35 | PK | L | | |

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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Test Specification: Neutral



| Sus | Suspected List | | | | | | | | |
|-----|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|--|
| NO. | Freq. [MHz] | Level [dBµ∀] | Factor [dB] | Limit [dBµV] | Margin [dB] | Reading [dBµ∀] | Detector | Туре | |
| 1 | 0.2040 | 37.42 | 19.64 | 63.45 | 26.03 | 17.78 | PK | N | |
| 2 | 0.5100 | 33.85 | 19.74 | 56.00 | 22.15 | 14.11 | PK | N | |
| 3 | 0.9645 | 37.84 | 19.76 | 56.00 | 18.16 | 18.08 | PK | N | |
| 4 | 2.1030 | 40.82 | 19.96 | 56.00 | 15.18 | 20.86 | PK | N | |
| 5 | 4.1955 | 38.49 | 20.18 | 56.00 | 17.51 | 18.31 | PK | N | |
| 6 | 6.7785 | 39.52 | 20.48 | 60.00 | 20.48 | 19.04 | PK | N | |

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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4.2. Maximum Conducted Output Power

4.2.1. Test Specification

| Test Requirement: | FCC Part15 E Secti | on 15.407(a |) | ie | | |
|-------------------|--|---|--|---|--|--|
| Test Method: | (10) | KDB789033 D02 General UNII Test Procedures New Rules v02.r01 Section E | | | | |
| Limit: | Frequency Band (MHz) | Limit | NAN TESTING | Dim | | |
| | 5150-5250 | 250mW for | client devices | HUAKTES | | |
| Test Setup: | RF automatic control unit | .TF | EUT | MAN TESTING | | |
| Test Mode: | Transmitting mode v | vith modulat | ion | MINAK. | | |
| Test Procedure: | The testing follow KDB789033 D02 Rules v02r01 Set The RF output of automatic control compensated to Set to the maximum transmit continue Measure the condinued results in the test | P. General UN ection E, 3, a EUT was co of unit by RF the results fo um power se ously. ducted outpu | NII Test Proced innected to the cable. The pat or each measu etting and enab | RF h loss was rement. le the EUT | | |
| Test Result: | PASS | TESTING | TESTING | TESTING | | |
| Remark: | Conducted output po +10log(1/x) X is duty Conducted output p | y cycle=1, so | 10log(1/1)=0 | | | |

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ATION



4.2.2. Test Instruments

| ACIDA Y (1979) | | All House | (1000) | All In The Later of the Later o | (3) | |
|---------------------------|--------------|-------------------------------|---------------|--|-----------------|--|
| 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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4.2.3. Test Data

| Mode | Test Channel | Maximum Conducted Output Power (dBm) | FCC Limit (dBm) | Result |
|----------------|-----------------|--------------------------------------|-----------------------|--------|
| 802.11a | CH36 | 9.79 | 24 | PASS |
| 802.11a | CH40 | 8.69 | 24 | PASS |
| 802.11a | CH48 | 8.81 | 24 | PASS |
| 802.11n(HT20) | CH36 | 9.11 | 24 | PASS |
| 802.11n(HT20) | CH40 | 8.53 | 24 | PASS |
| 802.11n(HT20) | CH48 | 7.74 | 24 | PASS |
| 802.11n(HT40) | CH38 | 7.33 | 24 | PASS |
| 802.11n(HT40) | CH46 | 8.95 | 24 | PASS |
| 802.11ac(HT20) | CH36 | 7.28 | 24 | PASS |
| 802.11ac(HT20) | CH40 | 8.41 | 24 | PASS |
| 802.11ac(HT20) | CH48 | 7.75 | 24 | PASS |
| 802.11ac(HT40) | CH38 | 7.23 | 24 | PASS |
| 802.11ac(HT40) | CH46 | 8.82 | 24 | PASS |

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4.3. 6db Emission Bandwidth

4.3.1. Test Specification

| Test Requirement: | FCC CFR47 Part 15 Section 15.407(e) |
|-------------------|--|
| Test Method: | KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C |
| Limit: | >500kHz |
| Test Setup: | Spectrum Analyzer EUT |
| Test Mode: | Transmitting mode with modulation |
| Test Procedure: | KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. |
| Test Result: | N/A |

4.3.2. Test Instruments

| - AND | - MIL | -106 | 7010 | Alm . | | |
|---------------------------|--------------|----------------------------|------------------|---------------------|--------------------|--|
| 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).

4.3.3Test data

N/A

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4.4. 26dB Bandwidth and 99% Occupied Bandwidth

4.4.1. Test Specification

| Test Requirement: | 47 CFR Part 15C Section 15.407 |
|-------------------|--|
| Test Method: | KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C |
| Limit: | No restriction limits |
| Test Setup: | Spectrum Analyzer EUT |
| Test Mode: | Transmitting mode with modulation |
| Test Procedure: | KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth RBW = 1% EBW, VBW≥3RBW, In order to make an accurate measurement. Measure and record the results in the test report. |
| Test Result: | PASS |

4.4.2. 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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4.4.3. Test data

| Mode | Test Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | Verdict |
|----------------|--------------|--------------------|-----------------------------|---------|
| 802.11a | CH36 | 5180 | 23.55 | PASS |
| 802.11a | CH40 | 5200 | 23.62 | PASS |
| 802.11a | CH48 | 5240 | 23.86 | PASS |
| 802.11n(HT20) | CH36 | 5180 | 25.32 | PASS |
| 802.11n(HT20) | CH40 | 5200 | 25.65 | PASS |
| 802.11n(HT20) | CH48 | 5240 | 25.42 | PASS |
| 802.11n(HT40) | CH38 | 5190 | 45.86 | PASS |
| 802.11n(HT40) | CH46 | 5230 | 46.34 | PASS |
| 802.11ac(HT20) | CH36 | 5180 | 25.65 | PASS |
| 802.11ac(HT20) | CH40 | 5200 | 24.95 | PASS |
| 802.11ac(HT20) | CH48 | 5240 | 25.39 | PASS |
| 802.11ac(HT40) | CH38 | 5190 | 45.32 | PASS |
| 802.11ac(HT40) | CH46 | 5230 | 45.99 | PASS |

Test plots as follows:

AL

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Band I (5150 - 5250 MHz)

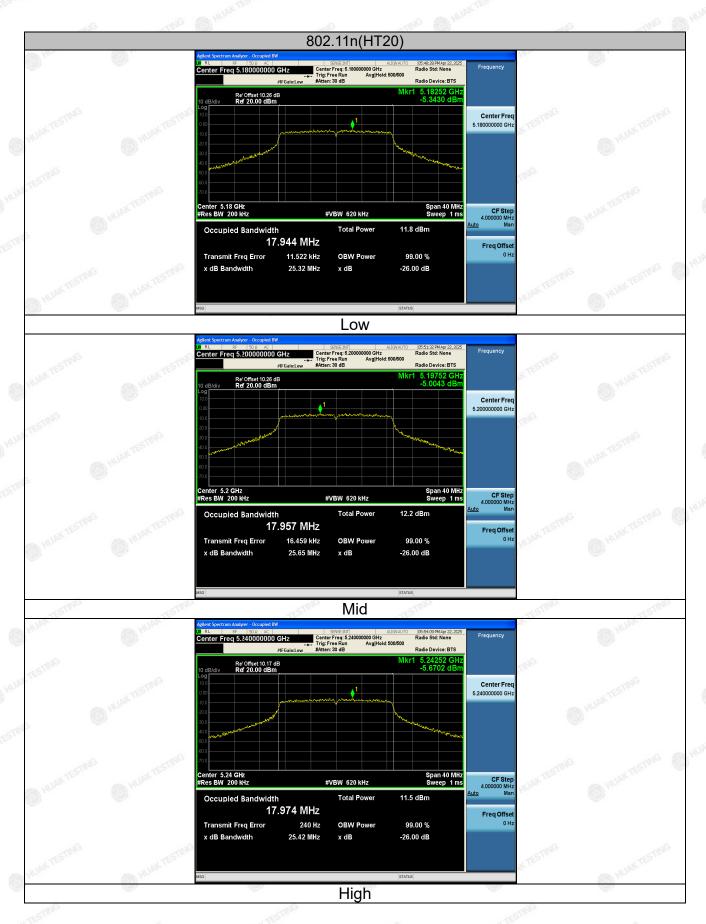


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Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China





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High

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4.5. Power Spectral Density

4.5.1. Test Specification

| Test Requirement: | FCC Part15 E Section 15.407 (a) | | | |
|-------------------|---|--|--|--|
| Test Method: | KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F | | | |
| Limit: | ≤11.00dBm/MHz for Band I 5150MHz-5250MHz | | | |
| Test Setup: | Spectrum Analyzer EUT | | | |
| Test Mode: | Transmitting mode with modulation | | | |
| Test Procedure: | 1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 2. Set RBW = 1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. 3. Allow the sweeps to continue until the trace stabilizes. 4. Use the peak marker function to determine the maximum amplitude level. 5. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment. | | | |
| Test Result: | PASS | | | |

4.5.2. Test Instruments

| - 10 h | - uUm | - 40/10 | - 11/1/2 | - 'M/W. | - U/W | | |
|---------------------------|--------------|-------------------------------|---------------|------------------|-----------------|--|--|
| 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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4.5.3. Test data

| | 2500-1 | | | |
|----------------|--------------|--------------------|---|--------|
| Mode | Test Channel | Level [dBm/MHz] | Limit (dBm/MHz) | Result |
| 802.11a | CH36 | 0.49 | 11 | PASS |
| 802.11a | CH40 | -0.94 | 11 7557 | PASS |
| 802.11a | CH48 | -0.86 | 11 | PASS |
| 802.11n(HT20) | CH36 | -0.41 | 11 | PASS |
| 802.11n(HT20) | CH40 | -0.62 | ним 11 | PASS |
| 802.11n(HT20) | CH48 | -0.74 | 11 | PASS |
| 802.11n(HT40) | CH38 | -3.30 | 11 | PASS |
| 802.11n(HT40) | CH46 | -3.16 | 11 | PASS |
| 802.11ac(HT20) | CH36 | -0.44 | 11 | PASS |
| 802.11ac(HT20) | CH40 | -0.59 | 11 | PASS |
| 802.11ac(HT20) | CH48 | -0.96 | 11 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | PASS |
| 802.11ac(HT40) | CH38 | -3.79 | 11 | PASS |
| 802.11ac(HT40) | CH46 | -3.74 | 11 | PASS |

Note: Instrument attenuation and cable loss See test diagram

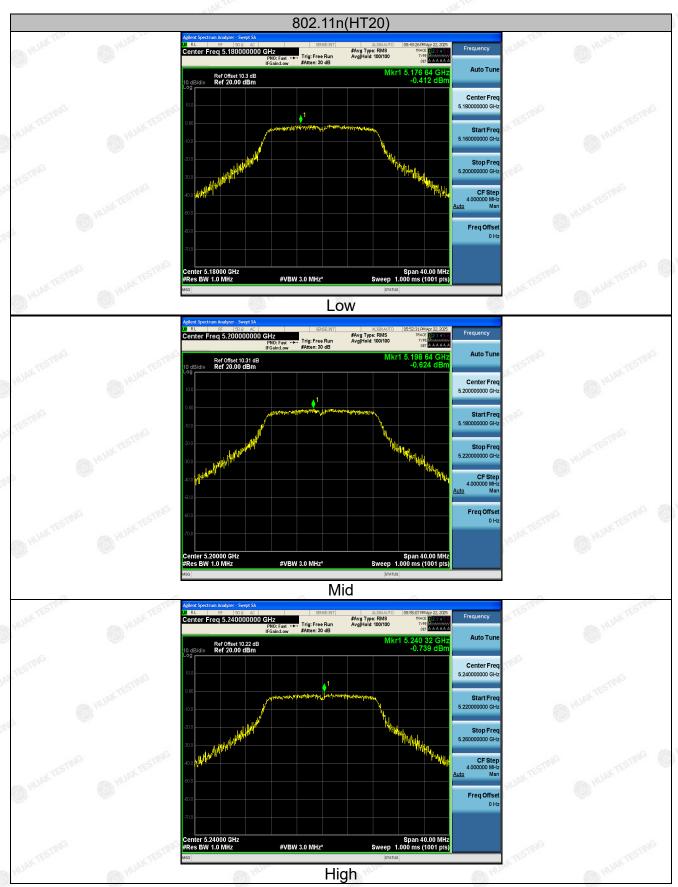
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Test plots as follows: Band I (5150 – 5250 MHz)

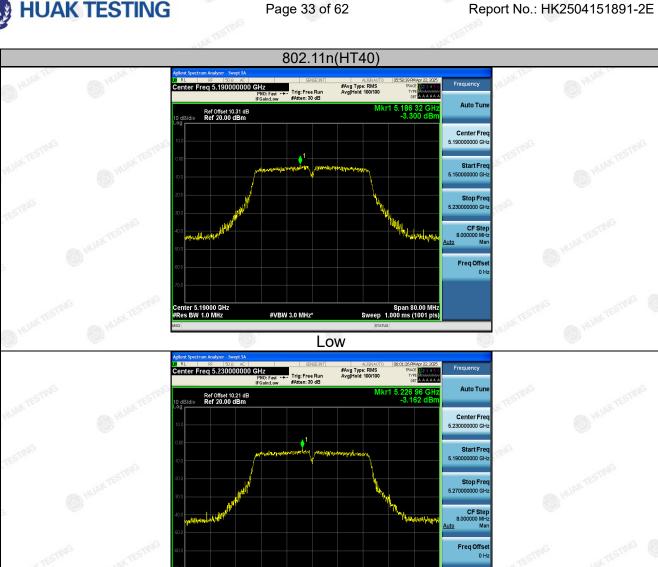


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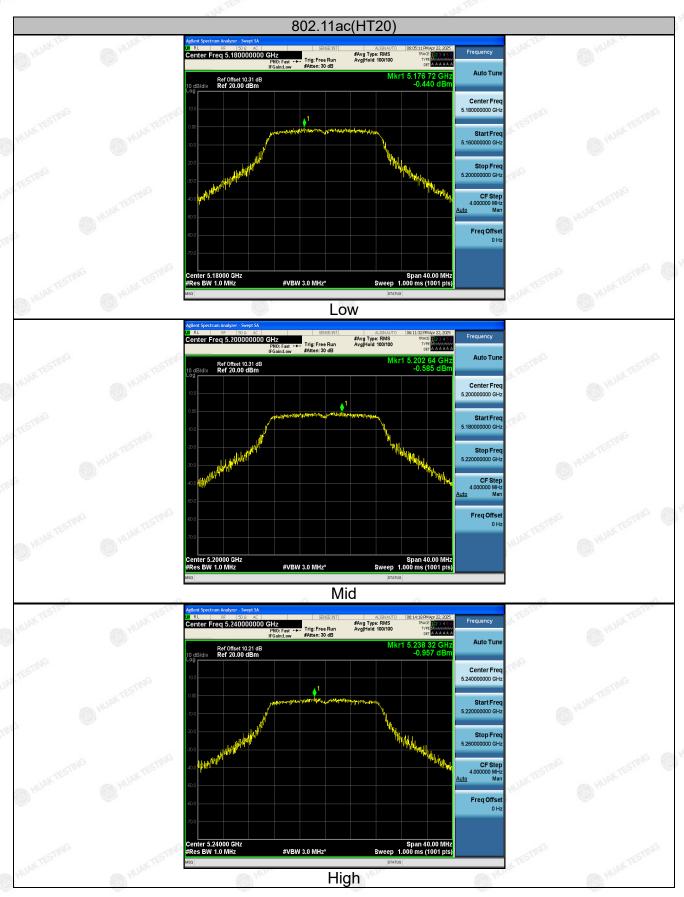
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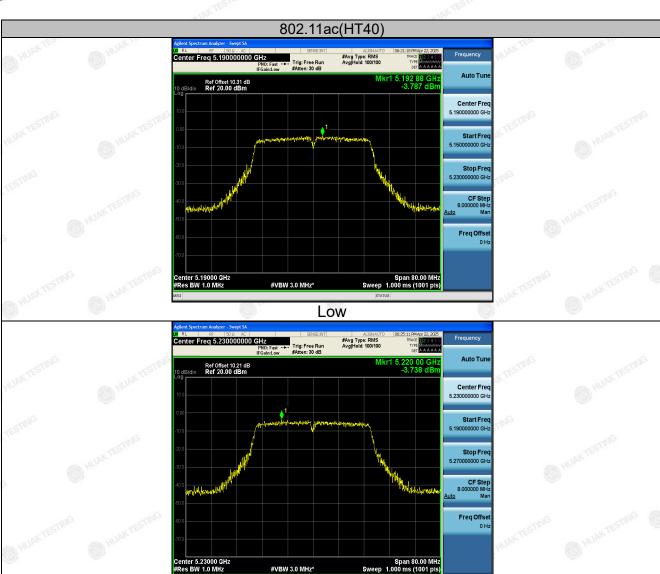
#VBW 3.0 MHz*

High

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High

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4.6. Band Edge

4.6.1. Test Specification

| Test Requirement: | FCC CFR47 Part 15E Section 15.407 | | |
|-------------------|--|--|--|
| Test Method: | ANSI C63.10 2013 | | |
| Limit: | For band I&II&III: E[dBμV/m] = EIRP[dBm] + 95.2=68.2 dBμV/m, for EIRP(dBm)= -27dBm For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. For band IV(5715-5725MHz&5850-5860MHz): E[dBμV/m] = EIR | | |
| Test Setup: | Ant. feed point Second Plane Receiver Amp. | | |
| Test Mode: | Transmitting mode with modulation | | |

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| WAT. | W AAA |
|-----------------|---|
| Test Procedure: | The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then |
| Test Result: | reported in a data sheet. PASS |
| rest Result. | LUMP HIM |



4.6.2. Test Instruments

| | Ra | diated Emission | Test Site (96 | 6) | |
|----------------------|--------------------|--------------------|------------------|---------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Spectrum analyzer | Agilent | N9020A | HKE-025 | Feb. 19, 2025 | Feb. 18, 2026 |
| Spectrum analyzer | R&S | FSV3044 | HKE-126 | Feb. 19, 2025 | Feb. 18, 2026 |
| Preamplifier | EMCI | EMC051845S | HKE-006 | Feb. 19, 2025 | Feb. 18, 2026 |
| Preamplifier | Schwarzbeck | BBV 9743 | HKE-016 | Feb. 19, 2025 | Feb. 18, 2026 |
| Preamplifier | A.H. Systems | SAS-574 | HKE-182 | Feb. 19, 2025 | Feb. 18, 2026 |
| 6dB Attenuator | Pasternack | 6db | HKE-184 | Feb. 19, 2025 | Feb. 18, 2026 |
| EMI Test Receiver | Rohde & Schwarz | ESR-7 | HKE-010 | Feb. 19, 2025 | Feb. 18, 2026 |
| Broadband Antenna | Schwarzbeck | VULB9168 | HKE-167 | Feb. 21, 2024 | Feb. 20, 2026 |
| Loop Antenna | COM-POWER | AL-130R | HKE-014 | Feb. 21, 2024 | Feb. 20, 2026 |
| Horn Antenna | Schwarzbeck | 9120D | HKE-013 | Feb. 21, 2024 | Feb. 20, 2026 |
| EMI Test Software | Tonscend | JS32-RE 5.0.0 | HKE-082 | N/A | N/A |
| RSE Test Software | Tonscend | JS36-RSE 5.0. 0 | HKE-184 | 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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4.6.3. Test Data

Operation Mode: 802.11a Mode with 5.2G TX CH Low

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5150 | 54.26 | -2.49 | 51.77 | 74 | 22.23 | peak |
| 5150 | I HU | -2.49 | 1 | 54 | 1 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Dotostor Typo |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5150 | 53.18 | -2.49 | 50.69 | 74 | 23.31 | peak |
| 5150 | THE PHI | -2.49 | 1 | 54 | 1 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

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Operation Mode: TX CH High with 5.2G

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|-----------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5350 | 54.12 | -2.11 | 52.01 | 74 | 21.99 | peak |
| 5350 | TING / | -2.11 | 1 mile | 54 | K TESTING | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|----------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5350 | 53.61 | -2.11 | 51.5 | 74 | 22.5 | peak |
| 5350 | 1 | -2.11 | 1 | 54 | TESTING/ | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Operation Mode: 802.11n/HT20 Mode with 5.2G TX CH Low

Horizontal

| - Alle | -100 | | | 41/1/20 | | -4100 |
|-----------|---------------|--------|----------------|----------|----------------|---------------|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5150 | 53.19 | -2.49 | 50.7 | 74 | 23.3 | peak |
| 5150 | 1 | -2.49 | (1) HO | 54 | _G / | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5150 | 52.49 | -2.49 | 50 | 74 | 24 | peak |
| 5150 | 1 | -2.49 | > / | 54 | s 1 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Operation Mode: TX CH High with 5.2G

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|----------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5350 | 53.19 | -2.11 | 51.08 | 74 | 22.92 | peak |
| 5350 | I I | -2.11 | 1 | 54 | ESTING / | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|----------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5350 | 51.49 | -2.11 | 49.38 | 74 | 24.62 | peak |
| 5350 | 1 | -2.11 | 1 | 54 | ESTING / | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.



Report No.: HK2504151891-2E

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Operation Mode: 802.11 n/HT40 Mode with 5.2G TX CH Low

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Dotactor Type |
|-----------|---------------|--------|---------------------|----------|--------|-----------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | - Detector Type |
| 5150 | 54.22 | -2.49 | 51.73 | 74 | 22.27 | peak |
| 5150 | STING / | -2.49 | J _{ESTING} | 54 HUAK | 1 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5150 | 51.62 | -2.49 | 49.13 | 74 | 24.87 | peak |
| 5150 | STING / | -2.49 | TESTING | 54 | 1 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

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TESTING TESTING

Report No.: HK2504151891-2E

Operation Mode: TX CH High with 5.2G

Horizontal

| Frequency | Frequency Meter Reading F (MHz) (dBµV) | | requency Meter Reading Fa | | Emission Level | Limits | Margin | Detector Type |
|-----------|--|-------|---------------------------|----------|----------------|---------------|--------|---------------|
| (MHz) | | | (dBµV/m) | (dBµV/m) | (dB) | Detector Type | | |
| 5350 | 53.18 | -2.11 | 51.07 | 74 | 22.93 | peak | | |
| 5350 | ING / | -2.11 | 1 mig | 54 | ESTING | AVG | | |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Vertical:

| Frequency Meter Reading | | Factor | Emission Level | Limits | Margin | Detector Type |
|-------------------------|--------|--------|----------------|----------|----------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5350 52.48 | | -2.11 | 50.37 | 74 | 23.63 | peak |
| § 5350 | 1 | -2.11 | 1 | 54 | ESTING / | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.



Operation Mode: 802.11 ac/HT20 Mode with 5.2G TX CH Low

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5150 | 53.19 | -2.49 | 50.7 | 74 | 23.3 | peak |
| 5150 | STING / | -2.49 | TESTING | 54 | 1 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5150 | 52.03 | -2.49 | 49.54 | 74 | 24.46 | peak |
| 5150 | STING / | -2.49 | NAK IESTING | 54 MINN | 1 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

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Operation Mode: TX CH High with 5.2G

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|-----------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | - Detector Type |
| 5350 | 54.18 | -2.11 | 52.07 | 74 | 21.93 | peak |
| 5350 | TESTING / | -2.11 | LAK ESTING | 54 | 1 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Vertical:

| Frequency | Frequency Meter Reading | | Emission Level | Limits | Margin | Detector Type |
|-----------|-------------------------|-------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5350 | 52.19 | -2.11 | 50.08 | 74 | 23.92 | peak |
| 5350 | STING / | -2.11 | STING | 54 | ESTA / | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Operation Mode: 802.11 ac/HT40 Mode with 5.2G TX CH Low

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5150 | 53.22 | -2.49 | 50.73 | 74 | 23.27 | peak |
| 5150 | STING / | -2.49 | TESTING | 54 | 1 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5150 | 52.19 | -2.49 | 49.7 | 74 | 24.3 | peak |
| 5150 | ESTING / | -2.49 | AK TESTING | 54 | 1 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

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Operation Mode: TX CH High with 5.2G

Horizontal

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|-----------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | - Detector Type |
| § 5350 | 52.49 | -2.11 | 50.38 | 74 | 23.62 | peak |
| 5350 | STIME / | -2.11 | NY ESTING | 54 | 1 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 5350 | 50.16 | -2.11 | 48.05 | 74 | 25.95 | peak |
| 5350 | TING / | -2.11 | I | 54 | ESTIL | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Remark:

- 1. If the PK measured levels comply with average limit, then the average level were deemed to comply with
- average limit.
- 2. In restricted bands of operation, the spurious emissions below the permissible value more than 2 0dB.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permiss ible value has no need to be reported.



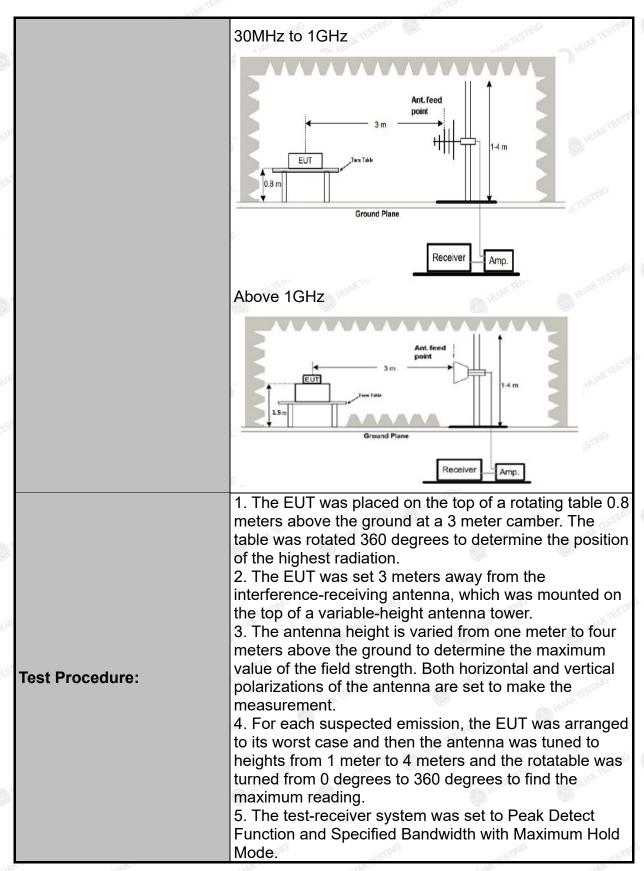


4.7. Spurious Emission

4.7.1.1. Test Specification

| Test Requirement: | FCC CFR47 | Part 15 Se | ction 15 | .407 | IG K TESTIN |
|-----------------------|--|--|--|---|--|
| Test Method: | KDB 789033 | D02 v02r0 |)1 (| HUA | (C) HUM |
| Frequency Range: | 9kHz to 40G | Hz | | ESTING | |
| Measurement Distance: | 3 m | AK TESTING | (A) 141 | JAK . | N TESTING |
| Antenna Polarization: | Horizontal & | Vertical | | -1G | O HO |
| Operation mode: | Transmitting | mode with | modulat | ion | .0 |
| Receiver Setup: | Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz Above 1GHz | Detector Quasi-peak Quasi-peak Quasi-peak Peak Peak | RBW 200Hz 9kHz 120KHz 1MHz 1MHz | VBW 1kHz 30kHz 300KHz 3MHz 10Hz | Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak Value Average Value |
| Limit: | band: All emshall not exc (i) All emissing dBm/MHz at edge increasing the above or below the 15.6 dBm/MI and from 5 increasing linedge. | nissions out eed an e.i. is sions shall 75 MHz or sing linear ow the ban band edged Hz at 5 MHz aborearly to a linearly to a linear output between the single of the singl | tside of to the control of the contr | he 5.15- 7 dBm/Nited to a bove or dBm/M and from sing linea or below below to 7 dBm/N | 5.15-5.25 GHz 5.35 GHz band MHz. a level of -27 below the band Hz at 25 MHz a 25 MHz above arly to a level of the band edge, he band edge MHz at the band which fall in rest |
| Test setup: | For radiated | emissions 3 m | | RX Antenna | A TESTING |

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6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test results:

PASS

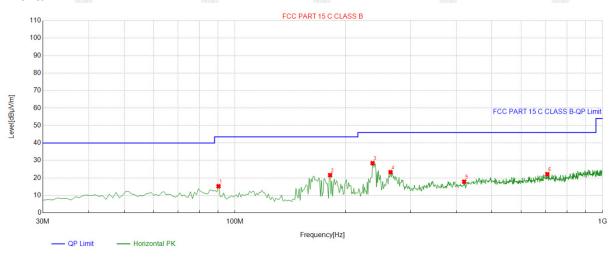


4.7.2. Test Data

All the test modes completed for test. only the worst result of (802.11a at 5180MHz) was reported Below 1GHz

Report No.: HK2504151891-2E

Horizontal



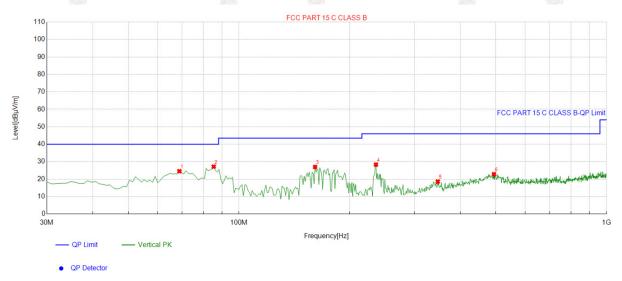
QP Detector

| Suspe | Suspected List | | | | | | | | | | |
|-------|----------------|--------|----------|----------|----------|--------|--------|-------|------------|--|--|
| | Freq. | Factor | Reading | Level | Limit | Margin | Height | Angle | | | |
| NO. | [MHz] | [dB] | [dBµV/m] | [dBµV/m] | [dBµV/m] | [dB] | [cm] | [°] | Polarity | | |
| 1 | 90.2002 | -16.68 | 31.96 | 15.28 | 43.50 | 28.22 | 100 | 204 | Horizontal | | |
| 2 | 181.47147 | -16.13 | 37.75 | 21.62 | 43.50 | 21.88 | 100 | 245 | Horizontal | | |
| 3 | 236.81681 | -13.80 | 42.26 | 28.46 | 46.00 | 17.54 | 100 | 103 | Horizontal | | |
| 4 | 264.97497 | -13.11 | 36.42 | 23.31 | 46.00 | 22.69 | 100 | 265 | Horizontal | | |
| 5 | 420.33033 | -9.14 | 27.01 | 17.87 | 46.00 | 28.13 | 100 | 30 | Horizontal | | |
| 6 | 707.73773 | -4.11 | 26.25 | 22.14 | 46.00 | 23.86 | 100 | 173 | Horizontal | | |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

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Vertical



| Sı | Suspected List | | | | | | | | | | | | |
|----------|----------------|-----------|--------|----------|----------|----------|--------|--------|-------|----------|--|--|--|
| | | Freq. | Factor | Reading | Level | Limit | Margin | Height | Angle | | | | |
| N | 10. | [MHz] | [dB] | [dBµV/m] | [dBµV/m] | [dBµV/m] | [dB] | [cm] | [°] | Polarity | | | |
| | 1 | 68.838839 | -16.41 | 40.95 | 24.54 | 40.00 | 15.46 | 100 | 320 | Vertical | | | |
| | 2 | 85.345345 | -17.82 | 44.97 | 27.15 | 40.00 | 12.85 | 100 | 206 | Vertical | | | |
| 3 | 3 | 161.08108 | -17.67 | 44.66 | 26.99 | 43.50 | 16.51 | 100 | 22 | Vertical | | | |
| | 4 | 235.84584 | -13.83 | 42.16 | 28.33 | 46.00 | 17.67 | 100 | 323 | Vertical | | | |
| | 5 | 347.50750 | -10.08 | 28.69 | 18.61 | 46.00 | 27.39 | 100 | 119 | Vertical | | | |
| | 9 | 494.12412 | -7.84 | 30.65 | 22.81 | 46.00 | 23.19 | 100 | 60 | Vertical | | | |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions Frequency Range (9kHz-30MHz)

| Fr | equency (MH | z) | Level@3m | (dBµV/m) | Limit@ | 3m (dBµV/m) |
|-----|-------------|--------|----------|----------|--------|-------------|
| MG | | .45 | STING | | TESTIN | |
| | TESTING | HI AIR | | TESTING | HUAR | TESTING |
| - 0 | HUAR | | - 141 | br. | | HUAR |
| 9 | | , NG | | | TING | |

Note:1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

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Above 1GHz

Report No.: HK2504151891-2E

LOW CH 36 (802.11 a Mode with 5.2G)/5180

Horizontal:

| Mar | 410 | | | Albra . | 41/1/20 | 4100 |
|-----------|---------------|--------|----------------|----------|---------|---------------|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |] " |
| 3647 | 54.29 | -4.59 | 49.7 | 74 A | 24.3 | peak |
| 3647 | 45.33 | -4.59 | 40.74 | 54 | 13.26 | AVG |
| 10360 | 53.18 | 3.74 | 56.92 | 74 | 17.08 | peak |
| 10360 | 42.18 | 3.74 | 45.92 | 54 | 8.08 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Vertical:

| ALC: | . 0.75 | 100 | 100 | | 10. | - 0.75 |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | TING |
| 3647 | 53.18 | -4.59 | 48.59 | 74 | 25.41 | peak |
| 3647 | 43.55 | -4.59 | 38.96 | 54 | 15.04 | AVG |
| 10360 | 52.09 | 3.74 | 55.83 | 74 | 18.17 | peak |
| 10360 | 41.07 | 3.74 | 44.81 | 54 | 9.19 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.



MID CH40 (802.11 a Mode with 5.2G)/5200

Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits در الم | Margin | Detector Type |
|-----------|---------------|--------|----------------|---------------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | (1) HUN A |
| 3647 | 54.29 | -4.59 | 49.7 | 74 | 24.3 | peak |
| 3647 | 43.67 | -4.59 | 39.08 | 54 | 14.92 | AVG |
| 10400 | 51.37 | 3.74 | 55.11 | 74 | 18.89 | peak |
| 10400 | 40.55 | 3.74 | 44.29 | 54 | 9.71 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Vertical:

| AUG. | - AND | | W. C. | -10/10 | 40/2 | |
|-----------|---------------|--------|----------------|----------|--------|--|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 3647 | 56.32 | -4.59 | 51.73 | 74 | 22.27 | peak |
| 3647 | 43.61 | -4.59 | 39.02 | 54 | 14.98 | AVG |
| 10400 | 52.48 | 3.74 | 56.22 | 74 NATES | 17.78 | peak |
| 10400 | 40.88 | 3.74 | 44.62 | 54 | 9.38 | AVG |
| . 44. | 4.50 | . 1 | | | | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.



HIGH CH 48 (802.11a Mode with 5.2G)/5240

Horizontal:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 3647 | 54.26 | -4.59 | 49.67 | 74 | 24.33 | peak |
| 3647 | 42.18 | -4.59 | 37.59 | 54 | 16.41 | AVG |
| 10480 | 51.77 | 3.75 | 55.52 | 74 | 18.48 | peak |
| 10480 | 39.85 | 3.75 | 43.6 | 54 | 0 10.4 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Vertical:

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|---------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | MHUAK! |
| 3647 | 54.29 | -4.59 | 49.7 | 74 | 24.3 | peak |
| 3647 | 43.69 | -4.59 | 39.1 | 54 | 14.9 | AVG |
| 10480 | 52.34 | 3.75 | 56.09 | 74 | 17.91 | peak |
| 10480 | 38.42 | 3.75 | 42.17 | 54 | 11.83 | AVG |

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit-Level.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed. (7) All the test modes completed for test. only the worst result of Mode 1(802.11a Mode)



4.8. Frequency Stability Measurement

4.8.1. Test Specification

| Test Requirement: | FCC Part15 Section 15.407(g) | | | | | | |
|-------------------|--|--|--|--|--|--|--|
| Test Method: | ANSI C63.10: 2013 | | | | | | |
| Limit: | The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supprolation, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at temperature of 20 degrees C. | | | | | | |
| Test Setup: | Spectrum Analyzer EUT AC/DC Power supply | | | | | | |
| Test Procedure: | The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record. | | | | | | |
| Test Result: | PASS THE HUMTESING HUMTESING HUMTESING HUMTESING | | | | | | |
| Remark: | N/A | | | | | | |



Test Result as follows:

| Mode | Voltage (V) | FHL (5180MHz) | Deviation (KHz) | FHH (5240MHz) | Deviation (KHz) |
|-----------|----------------|------------------|--------------------|------------------|--------------------|
| MUAK I | 4.25V | 5179.992 | -8 | 5239.988 | -12 |
| 5.2G Band | 5.0V | 5180.013 | 13 | 5240.012 | 12 |
| Y TESTING | 5.75V | 5180.008 | ¹⁰⁰ 8 | 5239.984 | -16 |

| Mode | Temperature (°C) | FHL (5180MHz) | Deviation (KHz) | FHH (5240MHz) | Deviation (KHz) |
|----------------|---------------------|------------------|--------------------|------------------|--------------------|
| | -30 | 5179.979 | -21 | 5239.978 | -22 |
| 3 | -20 | 5180.011 | 11 | 5240.013 | 13 |
| HUAK TE | -10 | 5179.976 | -24 | 5239.982 | -18 |
| | 0 | 5180.012 | 12 | 5239.972 | -28 |
| 5.2G Band | 10 | 5179.971 | -29 | 5239.977 | -23 |
| MINAK . | 20 | 5179.982 | -18 | 5240.011 | 11 |
| | 30 | 5180.016 | 16 | 5239.992 | -8 |
| STING LANTESTI | 40 | 5179.966 | -34 | 5239.964 | -36 |
| O Ho. | 50 | 5179.972 | -28 | 5240.022 | 22 |

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4.9. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a External antenna, need professional installation, not easy to remove. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 2.62dBi.



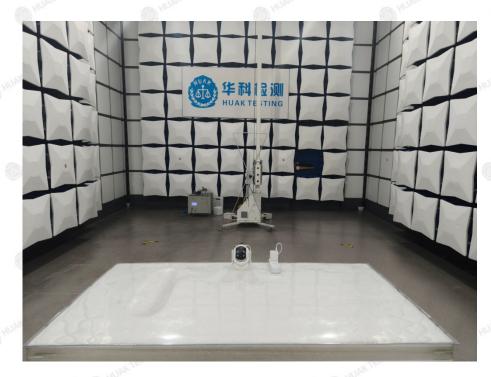


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5. Test Setup Photos of the EUT

Radiated Emissions





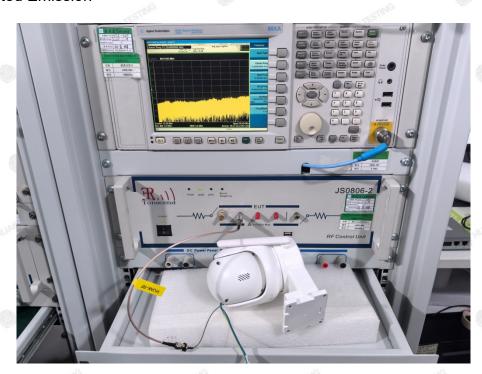
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AC Conducted Emission



RF Conducted Emission



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6. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

Report No.: HK2504151891-2E

--End of test report----

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