



Report No.: 86260714702

Date: August 24, 2026

Page 1 of 40

## RF TEST REPORT

**Applicant :** Shanghai Hertzinnno Technology Co., Ltd.

**Address:** 501, Greenland Mtown, Huanke RD 515, Pudong New Area District, Shanghai

**Manufacturer:** Xi'an Lianfeng Xunsheng Information Technology Co., Ltd.

**Address:** 17th Floor, Building B, Xigong University Innovation Building, No. 127 Youyi West Road, Beilin District, Xi'an City, Shaanxi Province

**EUT Name:** Acoustic Camera

**Trade mark:** Hertzinnno

**Model:** HA3LX, HA3, HA3X, HA3T, HA3TX, HA3A, HA3PD, HA4

**FCC ID:** 2BXXC-HA3LX

**Rating:** DC 5V  
Battery 7.2V

**Sample Received Date:** Jul. 14, 2026

**Test Date:** Jul. 14, 2026~Aug. 24, 2026

**Applicable Standards:** FCC 47, CFR Part 15.247

**Test Result** Pass

Prepared by: *Jojo Wu*

Jojo Wu/Project Engineer

Approved by: *Bruce Zhang*

Bruce Zhang/Technical Manager

### HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

Website: [www.hdt-lab.com](http://www.hdt-lab.com)

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### Revision History

| Version | Date of Issue   | Description      |
|---------|-----------------|------------------|
| V00     | August 24, 2026 | Original Version |

### HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

Website: [www.hdt-lab.com](http://www.hdt-lab.com)

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Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

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Tel: +86-0769-22221088

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Website: [www.hdt-lab.com](http://www.hdt-lab.com)

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## 1. TEST SUMMARY

| FCC Part 15C            | Description of Test            | Result |
|-------------------------|--------------------------------|--------|
| 15.247(b)(4)&15.203     | Antenna Requirement            | Pass   |
| 15.247(b)(3)            | Maximum Conducted Output power | Pass   |
| 15.247(a)(2)            | 6 dB Bandwidth                 | Pass   |
| 15.247(e)               | Power Spectral Density         | Pass   |
| 15.247(d)               | Out of Band Conducted Emission | Pass   |
| 15.247(d)&15.205&15.209 | Band edge                      | Pass   |
| 15.247(d)&15.205&15.209 | Spurious Radiated Emission     | Pass   |
| 15.207                  | Conducted Emission on AC Mains | Pass   |

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## 2. TEST SITE

### 2.1. Test Facility

HD Testing Technology (GuangDong) Co., Ltd.

Address: Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China

A2LA Certificate Number.:7547.01

FCC Designation Number:CN1419

FCC Test Firm Registration Number:361541

ISED Company Number:34332

ISED CAB identifier Number:CN0189

### 2.2. Measurement Uncertainty

| Parameter                        | Uncertainty          |
|----------------------------------|----------------------|
| Conducted Emission(150KHz-30MHz) | $\pm 3.2\text{dB}$   |
| Radiated Emission(9KHz-30MHz)    | $\pm 3.5\text{dB}$   |
| Radiated Emission(30MHz-1GHz)    | $\pm 4.7\text{dB}$   |
| Radiated Emission (1GHz-6GHz)    | $\pm 5.1\text{dB}$   |
| Radiated Emission (6GHz-18GHz)   | $\pm 5.1\text{dB}$   |
| Radiated Emission (18GHz-40GHz)  | $\pm 5.3\text{dB}$   |
| Occupied bandwidth               | $\pm 1.9\%$          |
| Duty cycle                       | $\pm 0.11\%$         |
| Power Spectral Density           | $\pm 0.98\text{ dB}$ |

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

### 2.3. Test Environment Condition

|                            |         |
|----------------------------|---------|
| Ambient Temperature:       | 24~25°C |
| Ambient Relative Humidity: | 55~60 % |

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### 3. TEST EQUIPMENT LIST

| Equipment                              | Manufacturer                                 | Model               | Equipment No. | Cal. Date     | Cal. Interval |
|----------------------------------------|----------------------------------------------|---------------------|---------------|---------------|---------------|
| EMI Test Receiver                      | Rohde&Schwarz                                | ESCI                | HDT-EM-003    | Mar. 03, 2026 | 1 Year        |
| Pulse limiter                          | Rohde&Schwarz                                | ESH3-Z2             | HDT-EM-001    | Mar. 03, 2026 | 1 Year        |
| LISN                                   | Rohde&Schwarz                                | ENV216              | HDT-EM-002    | Mar. 03, 2026 | 1 Year        |
| Shielding Room                         | Taihe Mao Rui Electronic Equipment Co., Ltd. | 8m*4m*4m            | HDT-EM-030    | Oct. 12, 2024 | 5 Year        |
| EMI Test Receiver                      | Rohde&Schwarz                                | ESCI7               | HDT-EM-005    | Mar. 03, 2026 | 1 Year        |
| Logarithmic Periodic Broadband Antenna | SCHWARZBECK                                  | VULB9168            | HDT-EM-009    | Mar. 06, 2026 | 3 Year        |
| Preamplifier                           | HP                                           | 8447F               | HDT-EM-010    | Mar. 03, 2026 | 1 Year        |
| Horn Antenna                           | SCHWARZBECK                                  | BBHA 9120D          | HDT-EM-039    | Mar. 06, 2026 | 3 Year        |
| Preamplifier                           | /                                            | 1-18-53G22          | HDT-EM-040    | Mar. 03, 2026 | 1 Year        |
| Anechoic Chamber                       | Taihe Mao Rui Electronic Equipment Co., Ltd. | 9m*6m*6m            | HDT-EM-030    | Oct. 12, 2024 | 5 Year        |
| Signal Analyzer                        | Keysight                                     | N9020A              | HDT-EM-038    | Mar. 03, 2026 | 1 Year        |
| Spectrum Analyzer                      | Rohde&Schwarz                                | FSV-40N             | HDT-EM-069    | Mar. 03, 2026 | 1 Year        |
| 18-40GHz Antenna                       | COM-MW                                       | ZLB7-18-40G-77<br>7 | HDT-EM-076    | May 18, 2026  | 1 Year        |

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|                          |                |                                 |                    |               |        |
|--------------------------|----------------|---------------------------------|--------------------|---------------|--------|
| 18-40GHz<br>Preamplifier | QUANJUDA       | LNA-18004000-5<br>0G35          | HDT-EM-077         | May 16, 2026  | 1 Year |
| Loop Antenna             | Da Ze          | ZN30900C                        | HDT-EM-053         | May 16, 2025  | 3 Year |
| Power Meter              | Agilent        | E4417A                          | HDT-EM-060         | May 16, 2026  | 1 Year |
| Filter                   | WCS Technology | ZBSF6-C2400-24<br>83.5-294      | HDT-EM-070         | May 16, 2026  | 1 Year |
| RF Cable                 | Rosenberger    | /                               | HDT-EM-078         | May 17, 2025  | 3 Year |
| RF Cable                 | COM-MW         | DCA9-2.92M800<br>02.92M3.6-1304 | HDT-EM-079         | May 17, 2025  | 3 Year |
| DC Power                 | Agilent        | E3632A                          | HDT-EM-043         | Mar. 03, 2026 | 1Year  |
| Power switching<br>box   | WCS Technology | SMU-3002                        | HDT-EM-047         | Apr. 16, 2026 | 1 Year |
| Temperature<br>Chamber   | Guangke        | GK-TH-1000                      | HDT-EM-039         | Nov.24, 2025  | 1 Year |
| RF Test<br>Software      | WCS Technology | WCN-Regulatory                  | Version 25.06.2801 |               |        |
| EMI Test<br>Software     | Tonscend       | JS32-CE                         | Version 5.0.0      |               |        |
| EMI Test<br>Software     | Tonscend       | JS32-RE                         | Version 5.0.0      |               |        |

Note:The attenuator is integrated into the Power Switch Box and taken into consideration during testing.

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#### 4. EUT DESCRIPTION

|                             |                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Product:</b>             | Acoustic Camera                                                                                          |
| <b>Test Model:</b>          | HA3LX                                                                                                    |
| <b>Additional Model:</b>    | HA3, HA3X, HA3T, HA3TX, HA3A, HA3PD, HA4                                                                 |
| <b>Test sample number:</b>  | 86260714244-1                                                                                            |
| <b>Rating:</b>              | DC 5V<br>Battery 7.2V                                                                                    |
| <b>Adapter Information:</b> | Model:X524<br>INT PUT:100-240V 50/60Hz<br>OUT PUT:5V--- 3A/ 9V--- 3A/ 12V--- 3A/ 15V--- 3A/ 20V--- 2.25A |
| <b>FCC ID:</b>              | 2BXXC-HA3LX                                                                                              |
| <b>Antenna Type:</b>        | PCB Antenna                                                                                              |
| <b>Antenna Gain:</b>        | 2dBi                                                                                                     |
| <b>Specification</b>        | 2.4G WIFI,b/g/n20/n40                                                                                    |
| <b>Operation Frequency:</b> | 2412-2462MHz                                                                                             |
| <b>Number of Channels:</b>  | 11                                                                                                       |
| <b>Modulation Type:</b>     | DSSS,OFDM                                                                                                |
| <b>Hardware Version:</b>    | V1.0                                                                                                     |
| <b>Software Version:</b>    | V1.0                                                                                                     |

**Note:**

- 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity.
- 3) The 802.11b/g/n20/n40 standard of the 2.4G WIFI has been tested, and the report only presents the worst results.
- 4) The product model is HA3LX the same PCB layout, electronic schematic, antenna, mechanical structure, and design as HA3, HA3X, HA3T, HA3TX, HA3A, HA3PD, HA4 .Only the models are difference.
- 5) The test results in the report only apply to the tested sample.

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#### 4.1. Description of Test Configuration

##### Channel List for 802.11b / 802.11g / 802.11n(HT20/40):

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

##### Test Channel

For 802.11b, 802.11g, 802.11n20 mode, EUT was tested with Channel 1, 6 and 11:

- Low Channel:2412MHz
- Middle Channel: 2437MHz
- High Channel:2462MHz

For 802.11n40 mode, EUT was tested with Channel 3, 6 and 9:

- Low Channel:2422MHz
- Middle Channel: 2437MHz
- High Channel:2452MHz

#### 4.2. Equipment Modifications

Any modifications installed previous to testing by Shanghai Hertzino Technology Co., Ltd. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by HD Testing Technology (GuangDong) Co., Ltd..

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Dongguan, Guangdong, China

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## 5. TEST METHODOLOGY

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10-2020+Cor.1-2023 and KDB 558074 D01 15.247 Meas Guidance v05r02.

### 5.1. EUT System Operation

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered by DC 5V from adapter and DC 7.2V from battery during the test.

### 5.2. Configuration and Mode

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.

Based on the baseline scan, the worst-case data rates were:

| Mode         | Data rate |
|--------------|-----------|
| 802.11b      | 1Mbps     |
| 802.11g      | 6 Mbps    |
| 802.11n HT20 | MCS0      |
| 802.11n HT40 | MCS0      |

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## 6. SETUP OF EQUIPMENT UNDER TEST

### 6.1. 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.

#### Support Equipment

| No. | Equipment             | Model                | Serial No. | Manufacturer |
|-----|-----------------------|----------------------|------------|--------------|
| 1   | Notebook              | Lenovo Rescuer 15ISK | PF0GS9S1   | Lenovo       |
| 2   | USB serial port board | CP2102               | /          | Silicon Labs |
| /   | /                     | /                    | /          | /            |

#### Support Cable

| No. | Description | Shield | Length | Manufacturer |
|-----|-------------|--------|--------|--------------|
| 1   | /           | /      | /      | /            |
| 2   | /           | /      | /      | /            |

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.

### 6.2. Block Diagram of EUT Configuration

Conducted and radiated emission configuration

Adapter/Battery



EUT

RF Conducted configuration



## HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

Website: [www.hdt-lab.com](http://www.hdt-lab.com)

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### 6.3. EUT Exercise Software

Test software:MobaXterm

Version:V26.1

| Frequency<br>(MHz) | Power Setting |         |          |
|--------------------|---------------|---------|----------|
|                    | b mode        | g mode  | n20 mode |
| 2412               | default       | default | default  |
| 2422               | default       | default | default  |
| 2437               | default       | default | default  |
| 2452               | default       | default | default  |
| 2462               | default       | default | default  |

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## 7. TEST RESULTS AND MEASUREMENT DATA

### 7.1. Antenna Requirement

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | <p>FCC Part 15.203</p> <p>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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.</p> <p>FCC Part 15.247(b)(4)</p> <p>The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.</p> |
| <b>Test Result:</b>      | <p>According to the manufacturer declared, the EUT has a PCB antenna, the Maximum directional gain of antenna is 2dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision. Refer to EUT Photo for further details.</p>                                                                                                                                                                                                                                                                                                                                                                                                                     |

## HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

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Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

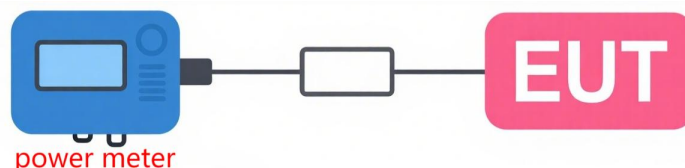
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## 7.2. Maximum Conducted Output Power

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part 15.247 (b)(3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Limit:</b>            | For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Test Procedure:</b>   | <p>Method PM is Measurement using an RF Peak power meter. The procedure for this method is as follows:</p> <ol style="list-style-type: none"> <li>1.The testing follows the ANSI C63.10-2020 Section 11.9.1.2.</li> <li>2.The maximum peak conducted output power may be measured using a broadband peak RF power meter.</li> <li>3.The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.</li> </ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### 7.2.1. Test Setup:



### 7.2.2. Test Result

Please refer to Appendix A:Test Results of 2.4G WIFI.

## HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

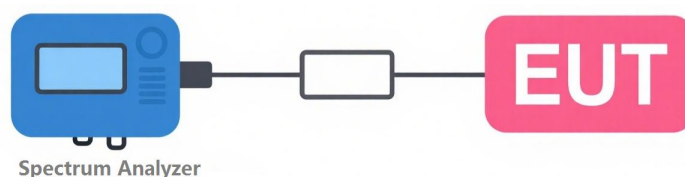
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### 7.3. 6db Bandwidth

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part 15.247 (a)(2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Limit:</b>            | The 6 dB Bandwidth is at least 500 kHz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Test Procedure:</b>   | <p>(1) Connect EUT's antenna output to spectrum analyzer by RF cable.</p> <p>(2) Set the spectrum analyzer as follows:</p> <p>Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.</p> <p>Set the VBW &gt; [3 x RBW].</p> <p>Detector =peak.</p> <p>Trace mode = max-hold.</p> <p>Sweep = No faster than coupled (auto) time.</p> <p>Allow the trace to stabilize.</p> <p>Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.</p> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

#### 7.3.1. Test Setup:



#### 7.3.2. Test Result

Please refer to Appendix A:Test Results of 2.4G WIFI..

### HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

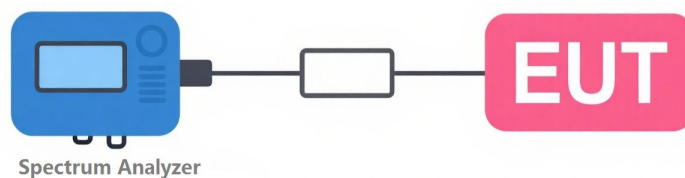
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#### 7.4. Power Spectral Density

|                          |                                                                                                                                                                                                                                                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part 15.247 (e)                                                                                                                                                                                                                                                                                                |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                  |
| <b>Limit:</b>            | The Power Density does not exceed 8dBm/3 kHz.                                                                                                                                                                                                                                                                      |
| <b>Test Procedure:</b>   | Set spectrum analyzer as following:<br>Set RBW $\geq$ 3kHz.<br>Set VBW $\geq$ 3 x RBW.<br>Set span to 1.5 times the DTS bandwidth<br>Sweep time = auto couple.<br>Detector = peak.<br>Trace mode = max hold.<br>Allow trace to fully stabilize.<br>Use peak marker function to determine the peak amplitude level. |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                               |

##### 7.4.1. Test Setup



##### 7.4.2. Test Result

Please refer to Appendix A:Test Results of 2.4G WIFI.

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Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

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## 7.5. Out of Band Conducted Emission

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15.247 (d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Limit:</b>            | At least 20 dB below the highest level of the desired power in the pass band.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Test Procedure:</b>   | <p>Measurement Procedure -Reference Level</p> <p>Set the RBW = 100 kHz.a.</p> <p>Set the VBW <math>\geq</math> 300 kHz.</p> <p>Detector = peak.</p> <p>Sweep time = auto couple</p> <p>Trace mode = max hold.。</p> <p>Allow trace to fully stabilize.</p> <p>Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.</p> <p>Measurement Procedure -Unwanted Emission Level</p> <p>Set RBW = 100 kHz.</p> <p>Set VBW <math>\geq</math> 300 kHz.</p> <p>Set span to encompass the spectrum to be examined.</p> <p>Detector = peak.</p> <p>Trace Mode = max hold.2</p> <p>Sweep = auto couple.</p> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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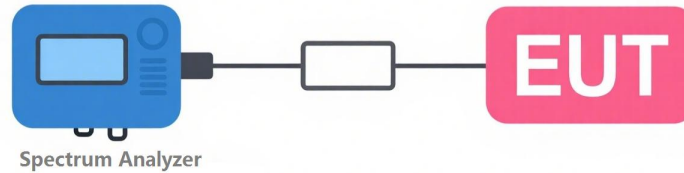
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#### 7.5.1. Test Setup:



#### 7.5.2. Test Result

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## 7.6. Band Edge

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |                              |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------|-----------------------|-----------------------------------|------------------------------|-------------|-------------|-----|-------------|--------------|----|------------|----|----|-------|-----|---|--------|-----|---|---------|-----|---|-----------|-----|---|
| Test Requirement: | FCC Part15 C 15.247(d), 15.205, 15.209                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |                              |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
| Test Mode:        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |                              |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
| Limit:            | <table><tr><td>Frequency Range (MHz)</td><td>Field Strength (microvolts/meter)</td><td>Measurement Distance(meters)</td></tr><tr><td>0.009~0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490~1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705~30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100</td><td>3</td></tr><tr><td>88-216</td><td>150</td><td>3</td></tr><tr><td>216-960</td><td>200</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table>                                                                                                                                                                                                                                                                                                                                                  |                                   |                              | Frequency Range (MHz) | Field Strength (microvolts/meter) | Measurement Distance(meters) | 0.009~0.490 | 2400/F(kHz) | 300 | 0.490~1.705 | 24000/F(kHz) | 30 | 1.705~30.0 | 30 | 30 | 30-88 | 100 | 3 | 88-216 | 150 | 3 | 216-960 | 200 | 3 | Above 960 | 500 | 3 |
|                   | Frequency Range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Field Strength (microvolts/meter) | Measurement Distance(meters) |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|                   | 0.009~0.490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2400/F(kHz)                       | 300                          |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|                   | 0.490~1.705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 24000/F(kHz)                      | 30                           |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|                   | 1.705~30.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30                                | 30                           |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|                   | 30-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100                               | 3                            |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|                   | 88-216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 150                               | 3                            |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|                   | 216-960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 200                               | 3                            |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|                   | Above 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 500                               | 3                            |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
| Test Procedure:   | <p>1. The EUT was placed on a turntable with 1.5 meter for frequency above 1GHz respectively above ground.</p> <p>2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.</p> <p>3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.</p> <p>4. Set to the maximum power setting and enable the EUT transmit continuously.</p> <p>Note:Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis(X, Y, Z,). The worst case emissions were reported</p> |                                   |                              |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
| Test Result:      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                              |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |

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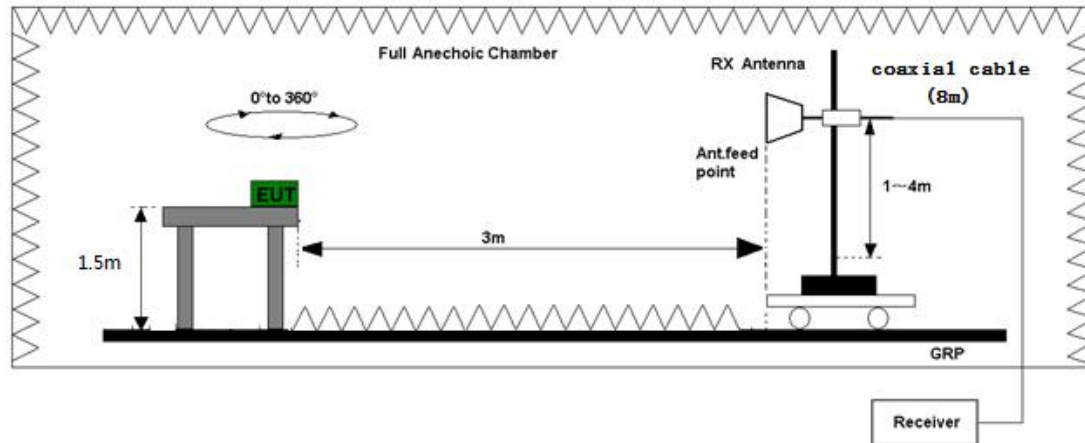
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### 7.6.1. Test Setup:



Test set-up of radiated disturbance (Above 1GHz)

### 7.6.2. Test Result

|              |                               |
|--------------|-------------------------------|
| Test Voltage | DC 5V from adapter(120V/60Hz) |
|--------------|-------------------------------|

#### Note:

- 1.The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.
- 2.Only worse case 802.11b is reported.

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Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

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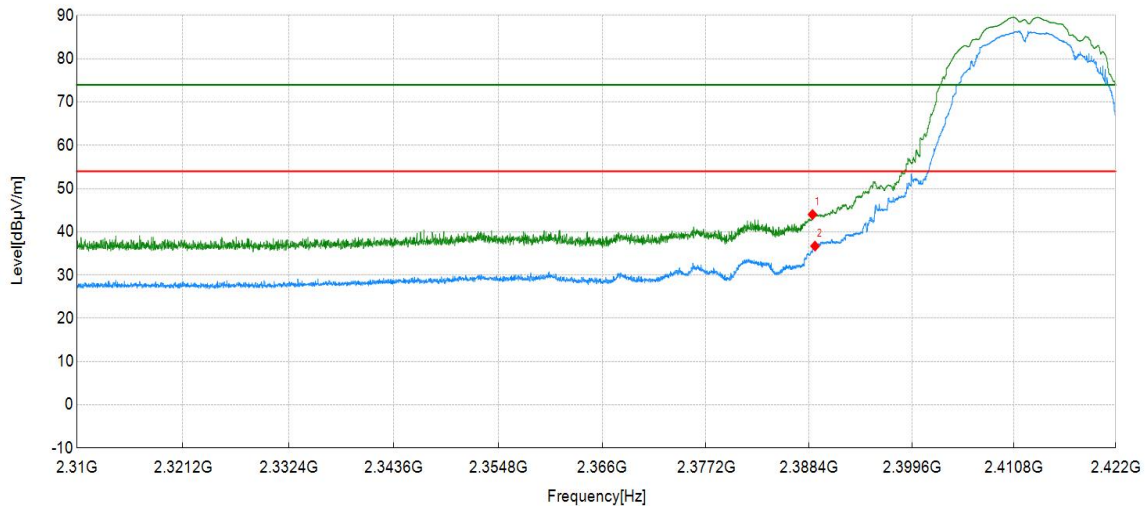
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## Worst-case

802.11b-2412MHz:

Please refer to the following diagram:

Horizontal:



## Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol  | Verdict |
|-----|-----------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|-----|------|---------|
| 1   | 2388.77         | 67.44          | 44.00          | -23.44        | 74.00          | 30.00       | 150         | 110       | PK  | Hori | PASS    |
| 2   | 2389.04         | 60.14          | 36.70          | -23.44        | 54.00          | 17.30       | 150         | 60        | AV  | Hori | PASS    |

Note:(1)Emission Level=Reading-Factor

(2)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

(3)Margin=limit-Level

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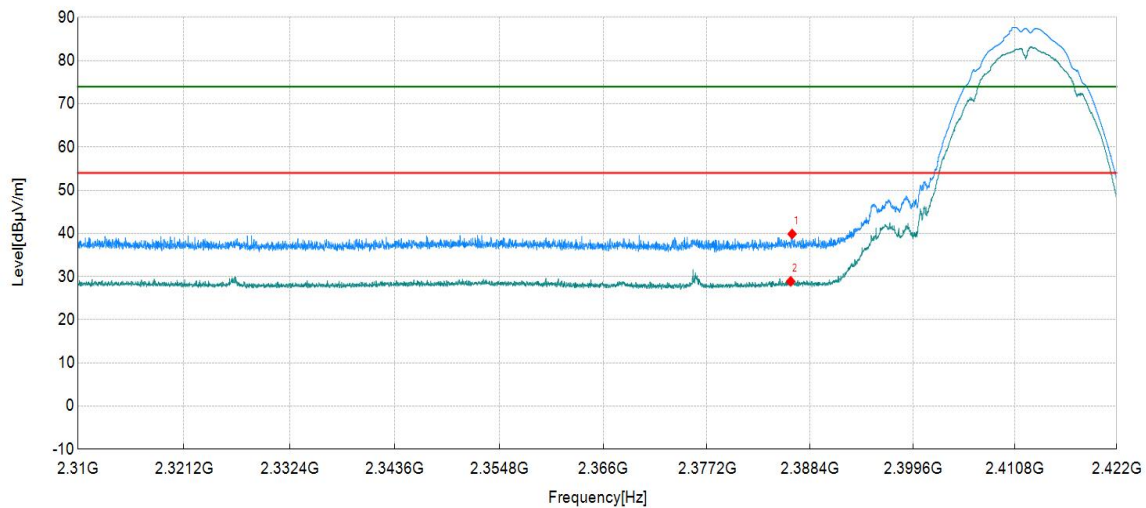
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Vertical:



#### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol  | Verdict |
|-----|-----------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|-----|------|---------|
| 1   | 2386.44         | 63.28          | 39.85          | -23.43        | 74.00          | 34.15       | 150         | 30        | PK  | Vert | PASS    |
| 2   | 2386.29         | 52.31          | 28.88          | -23.43        | 54.00          | 25.12       | 150         | 230       | AV  | Vert | PASS    |

Note:(1)Emission Level=Reading-Factor

(2)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

(3)Margin=limit-Level

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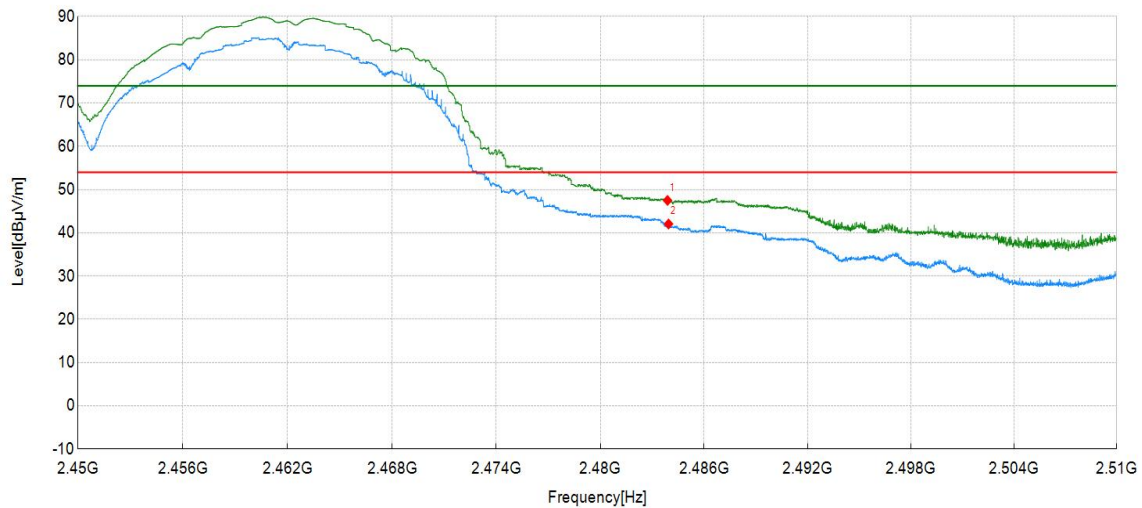
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802.11b-2462MHz:

Please refer to the following diagram:

Horizontal:



#### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol  | Verdict |
|-----|-----------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|-----|------|---------|
| 1   | 2483.88         | 70.94          | 47.49          | -23.45        | 74.00          | 26.51       | 100         | 240       | PK  | Hori | PASS    |
| 2   | 2483.94         | 65.49          | 42.04          | -23.45        | 54.00          | 11.96       | 100         | 340       | AV  | Hori | PASS    |

Note:(1)Emission Level=Reading-Factor

(2)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

(3)Margin=limit-Level

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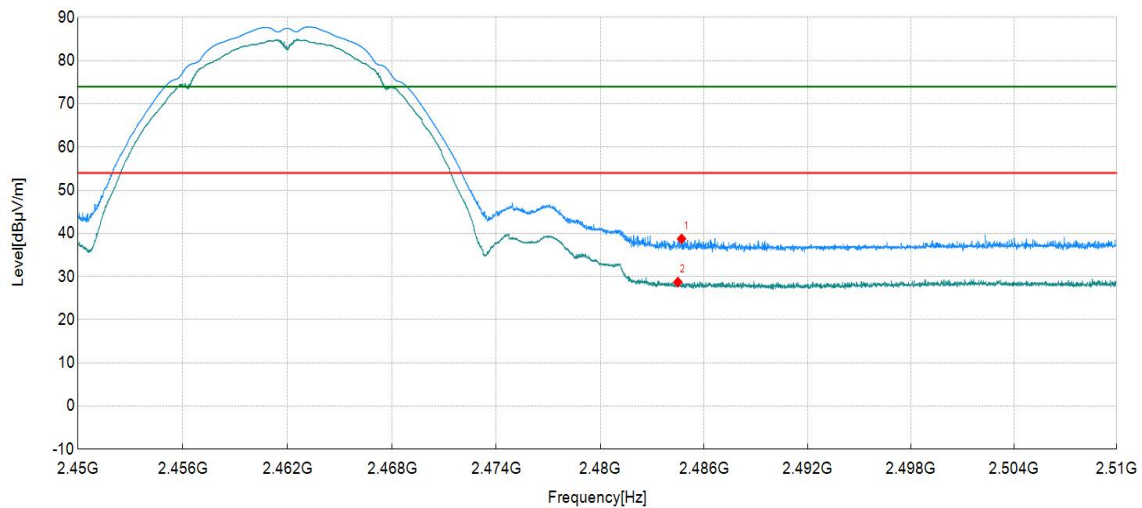
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Vertical:



#### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol  | Verdict |
|-----|-----------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|-----|------|---------|
| 1   | 2484.70         | 62.19          | 38.74          | -23.45        | 74.00          | 35.26       | 100         | 180       | PK  | Vert | PASS    |
| 2   | 2484.48         | 52.16          | 28.71          | -23.45        | 54.00          | 25.29       | 100         | 40        | AV  | Vert | PASS    |

Note:(1)Emission Level=Reading-Factor

(2)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

(3)Margin=limit-Level

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## 7.7. Radiated Spurious Emissions

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                              |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------|-----------------------|-----------------------------------|------------------------------|-------------|-------------|-----|-------------|--------------|----|------------|----|----|-------|-----|---|--------|-----|---|---------|-----|---|-----------|-----|---|
| Test Requirement: | FCC Part15 C 15.247(d), 15.205, 15.209                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                              |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
| Test Mode:        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |                              |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
| Limit:            | <table><tr><td>Frequency Range (MHz)</td><td>Field Strength (microvolts/meter)</td><td>Measurement Distance(meters)</td></tr><tr><td>0.009~0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490~1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705~30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100</td><td>3</td></tr><tr><td>88-216</td><td>150</td><td>3</td></tr><tr><td>216-960</td><td>200</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table>                                                                                                                                                                                                   |                                   |                              | Frequency Range (MHz) | Field Strength (microvolts/meter) | Measurement Distance(meters) | 0.009~0.490 | 2400/F(kHz) | 300 | 0.490~1.705 | 24000/F(kHz) | 30 | 1.705~30.0 | 30 | 30 | 30-88 | 100 | 3 | 88-216 | 150 | 3 | 216-960 | 200 | 3 | Above 960 | 500 | 3 |
|                   | Frequency Range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Field Strength (microvolts/meter) | Measurement Distance(meters) |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|                   | 0.009~0.490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400/F(kHz)                       | 300                          |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|                   | 0.490~1.705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24000/F(kHz)                      | 30                           |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|                   | 1.705~30.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30                                | 30                           |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|                   | 30-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100                               | 3                            |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|                   | 88-216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 150                               | 3                            |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|                   | 216-960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 200                               | 3                            |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
|                   | Above 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 500                               | 3                            |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
| Test Procedure:   | Radiated emission measurements were performed from 9kHz to tenth harmonic or 40GHz. The EUT for testing is arranged on a styrene turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter. Note:Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis(X, Y, Z,). The worst case emissions were reported |                                   |                              |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |
| Test Result:      | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |                              |                       |                                   |                              |             |             |     |             |              |    |            |    |    |       |     |   |        |     |   |         |     |   |           |     |   |

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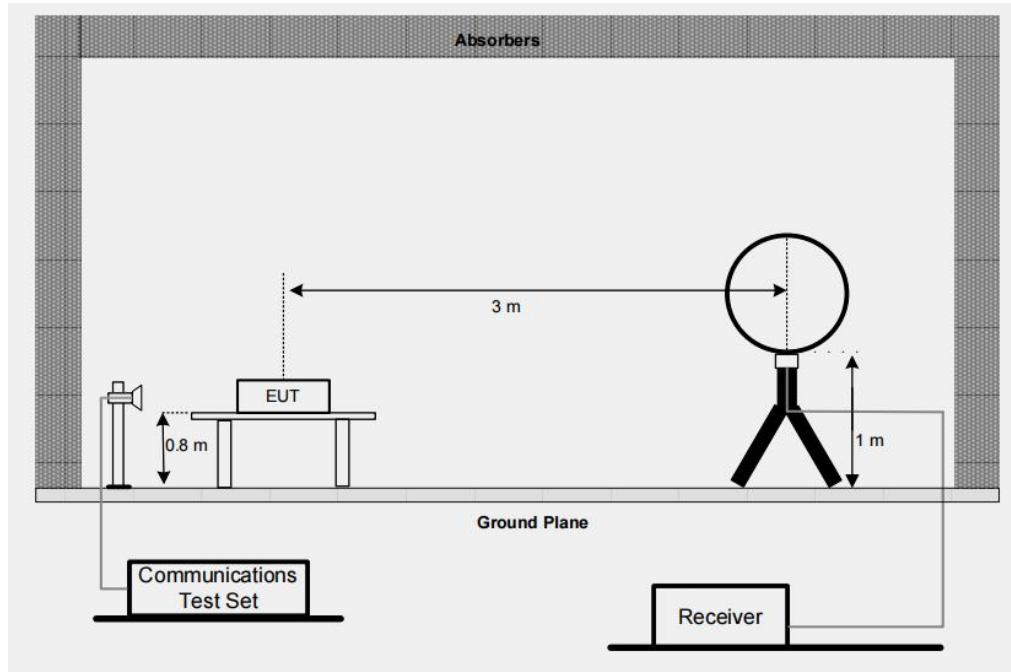
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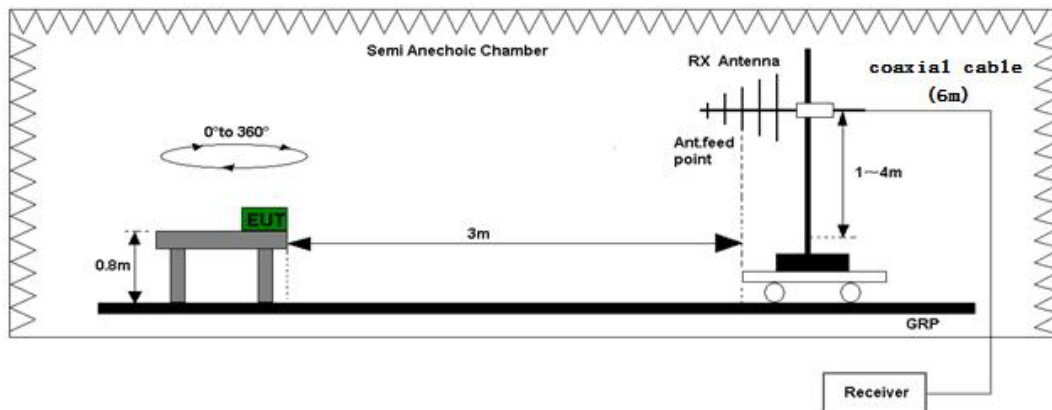
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### 7.7.1. Test Setup:



Test set-up of radiated disturbance (Up to 30MHz)



Test set-up of radiated disturbance (30MHz to 1GHz)

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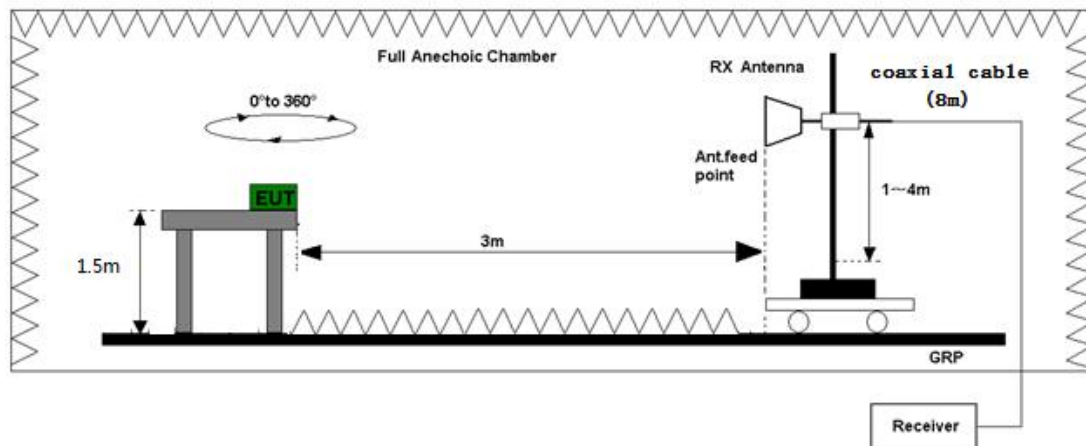
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Test set-up of radiated disturbance (Above 1GHz)

### 7.7.2. Test Result

|              |                               |
|--------------|-------------------------------|
| Test Voltage | DC 5V from adapter(120V/60Hz) |
|--------------|-------------------------------|

Up to 30MHz

Note:

- 1.For 9KHz to 30MHz and above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.
- 2.Only worse case 802.11b is reported.

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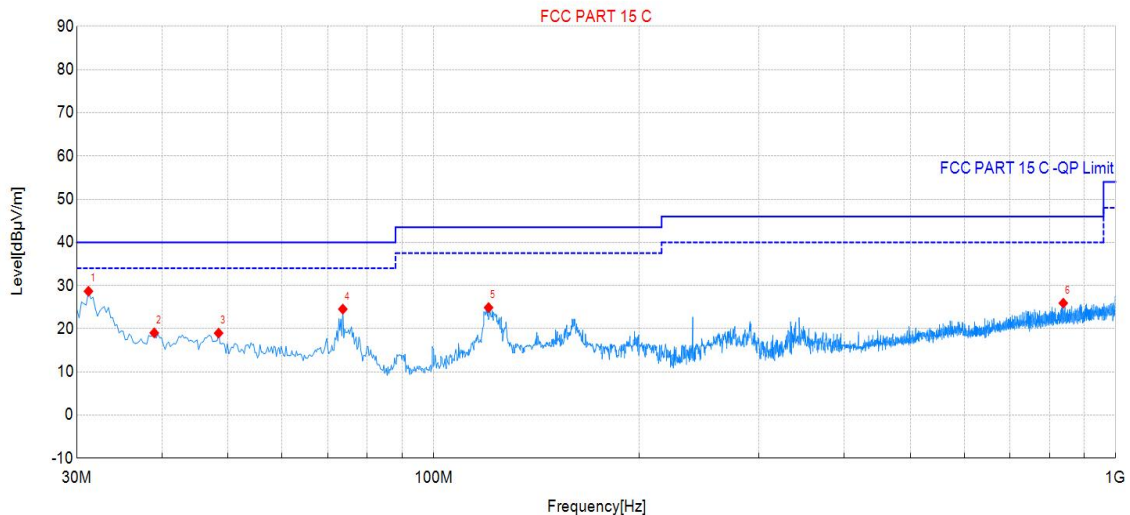
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## Spurious Emission below 1GHz

Worst-case:802.11b mode-2412MHz

Please refer to the following diagram:

Vertical:



### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol      | Verdict |
|-----|-----------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|-----|----------|---------|
| 1   | 31.21           | 46.39          | 28.67          | -17.72        | 40.00          | 11.33       | 100         | 201       | PK  | Vertical | PASS    |
| 2   | 38.97           | 36.14          | 19.04          | -17.10        | 40.00          | 20.96       | 100         | 16        | PK  | Vertical | PASS    |
| 3   | 48.43           | 36.17          | 18.98          | -17.19        | 40.00          | 21.02       | 100         | 306       | PK  | Vertical | PASS    |
| 4   | 73.65           | 44.49          | 24.54          | -19.95        | 40.00          | 15.46       | 100         | 69        | PK  | Vertical | PASS    |
| 5   | 120.45          | 42.65          | 24.90          | -17.75        | 43.50          | 18.60       | 100         | 41        | PK  | Vertical | PASS    |
| 6   | 838.01          | 33.57          | 25.93          | -7.64         | 46.00          | 20.07       | 100         | 1         | PK  | Vertical | PASS    |

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

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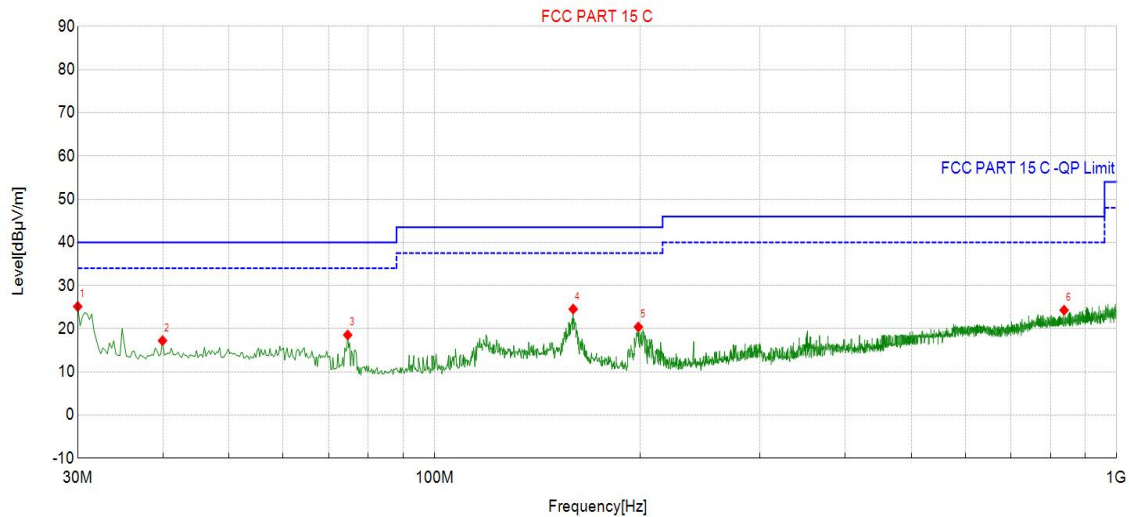
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Website: [www.hdt-lab.com](http://www.hdt-lab.com)

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Horizontal:



#### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol        | Verdict |
|-----|-----------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|-----|------------|---------|
| 1   | 30.00           | 42.94          | 25.15          | -17.79        | 40.00          | 14.85       | 100         | 65        | PK  | Horizontal | PASS    |
| 2   | 39.94           | 34.24          | 17.23          | -17.01        | 40.00          | 22.77       | 100         | 291       | PK  | Horizontal | PASS    |
| 3   | 74.62           | 38.62          | 18.55          | -20.07        | 40.00          | 21.45       | 100         | 337       | PK  | Horizontal | PASS    |
| 4   | 159.74          | 40.57          | 24.55          | -16.02        | 43.50          | 18.95       | 100         | 244       | PK  | Horizontal | PASS    |
| 5   | 199.02          | 40.33          | 20.41          | -19.92        | 43.50          | 23.09       | 100         | 309       | PK  | Horizontal | PASS    |
| 6   | 837.53          | 31.93          | 24.29          | -7.64         | 46.00          | 21.71       | 100         | 112       | PK  | Horizontal | PASS    |

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

#### Worst-case Radiated Emissions (Above 1GHz)

##### HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

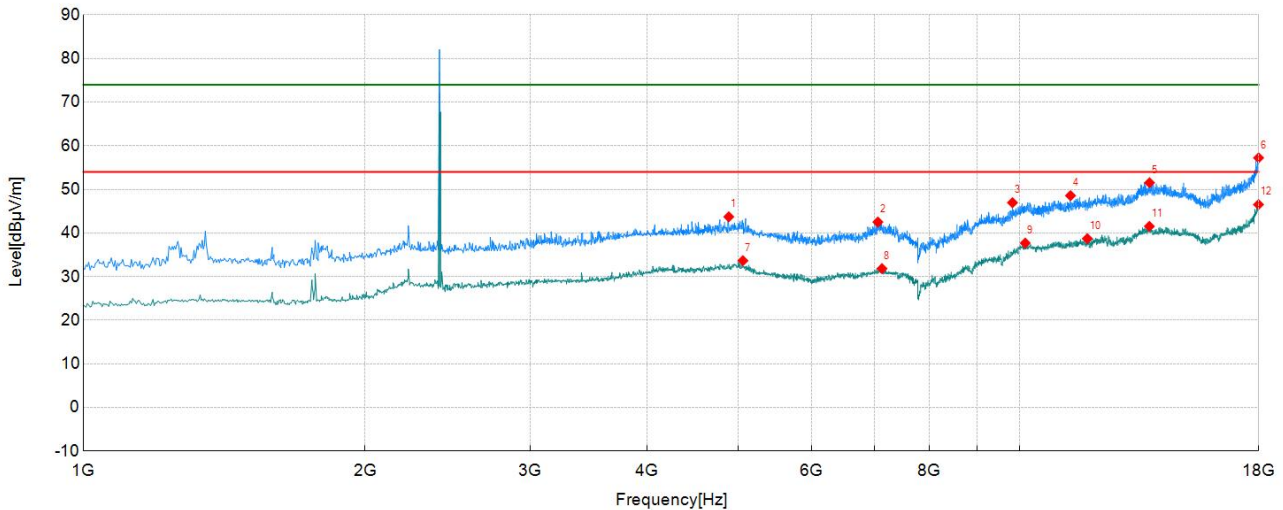
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802.11b-2412MHz

Please refer to the following diagram:

Vertical:



#### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol      | Verdict |
|-----|-----------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|-----|----------|---------|
| 1   | 4890.38         | 62.58          | 43.71          | -18.87        | 74.00          | 30.29       | 150         | 340       | PK  | Vertical | PASS    |
| 2   | 7056.61         | 62.34          | 42.52          | -19.82        | 74.00          | 31.48       | 150         | 310       | PK  | Vertical | PASS    |
| 3   | 9824.76         | 60.77          | 46.96          | -13.81        | 74.00          | 27.04       | 150         | 310       | PK  | Vertical | PASS    |
| 4   | 11331.27        | 59.32          | 48.56          | -10.76        | 74.00          | 25.44       | 150         | 190       | PK  | Vertical | PASS    |
| 5   | 13762.75        | 62.21          | 51.53          | -10.68        | 74.00          | 22.47       | 150         | 50        | PK  | Vertical | PASS    |
| 6   | 17993.20        | 59.91          | 57.23          | -2.68         | 74.00          | 16.77       | 150         | 180       | PK  | Vertical | PASS    |
| 7   | 5063.81         | 52.53          | 33.65          | -18.88        | 54.00          | 20.35       | 150         | 70        | AV  | Vertical | PASS    |
| 8   | 7128.03         | 51.72          | 31.84          | -19.88        | 54.00          | 22.16       | 150         | 160       | AV  | Vertical | PASS    |
| 9   | 10137.63        | 51.02          | 37.69          | -13.33        | 54.00          | 16.31       | 150         | 80        | AV  | Vertical | PASS    |
| 10  | 11810.76        | 49.54          | 38.71          | -10.83        | 54.00          | 15.29       | 150         | 100       | AV  | Vertical | PASS    |
| 11  | 13755.95        | 52.21          | 41.52          | -10.69        | 54.00          | 12.48       | 150         | 220       | AV  | Vertical | PASS    |
| 12  | 17989.80        | 49.25          | 46.52          | -2.73         | 54.00          | 7.48        | 150         | 170       | AV  | Vertical | PASS    |

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Dongguan, Guangdong, China

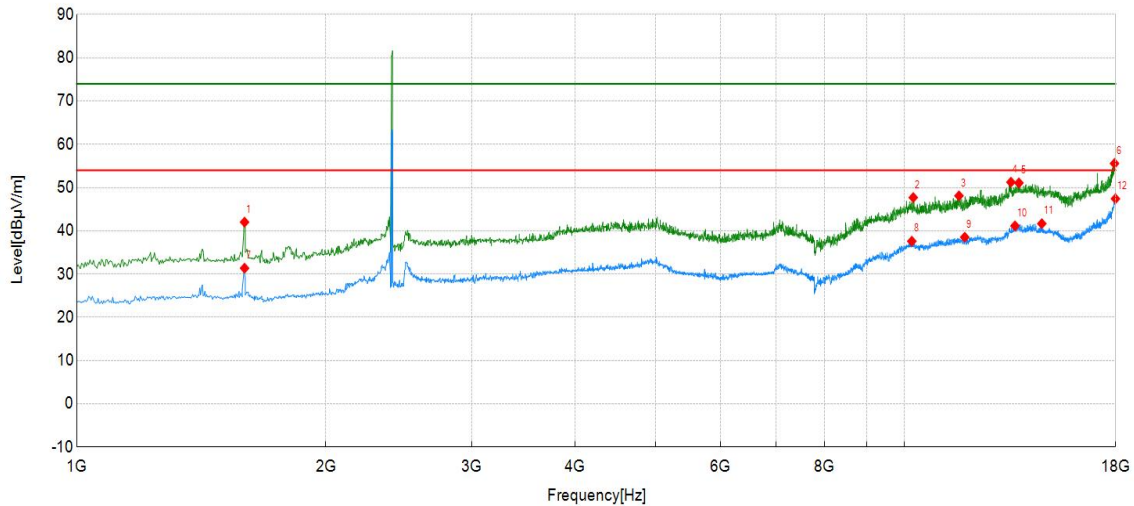
Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

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Horizontal:



#### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol        | Verdict |
|-----|-----------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|-----|------------|---------|
| 1   | 1595.12         | 68.08          | 42.01          | -26.07        | 74.00          | 31.99       | 150         | 140       | PK  | Horizontal | PASS    |
| 2   | 10249.85        | 60.65          | 47.70          | -12.95        | 74.00          | 26.30       | 150         | 60        | PK  | Horizontal | PASS    |
| 3   | 11640.73        | 58.58          | 48.10          | -10.48        | 74.00          | 25.90       | 150         | 100       | PK  | Horizontal | PASS    |
| 4   | 13449.89        | 62.31          | 51.25          | -11.06        | 74.00          | 22.75       | 150         | 170       | PK  | Horizontal | PASS    |
| 5   | 13752.55        | 61.77          | 51.08          | -10.69        | 74.00          | 22.92       | 150         | 40        | PK  | Horizontal | PASS    |
| 6   | 17942.19        | 59.11          | 55.57          | -3.54         | 74.00          | 18.43       | 150         | 190       | PK  | Horizontal | PASS    |
| 7   | 1595.12         | 57.43          | 31.36          | -26.07        | 54.00          | 22.64       | 150         | 40        | AV  | Horizontal | PASS    |
| 8   | 10209.04        | 50.70          | 37.59          | -13.11        | 54.00          | 16.41       | 150         | 210       | AV  | Horizontal | PASS    |
| 9   | 11827.77        | 49.35          | 38.53          | -10.82        | 54.00          | 15.47       | 150         | 280       | AV  | Horizontal | PASS    |
| 10  | 13602.92        | 51.99          | 41.13          | -10.86        | 54.00          | 12.87       | 150         | 30        | AV  | Horizontal | PASS    |
| 11  | 14657.13        | 51.51          | 41.66          | -9.85         | 54.00          | 12.34       | 150         | 280       | AV  | Horizontal | PASS    |
| 12  | 17989.80        | 50.15          | 47.42          | -2.73         | 54.00          | 6.58        | 150         | 330       | AV  | Horizontal | PASS    |

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

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Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

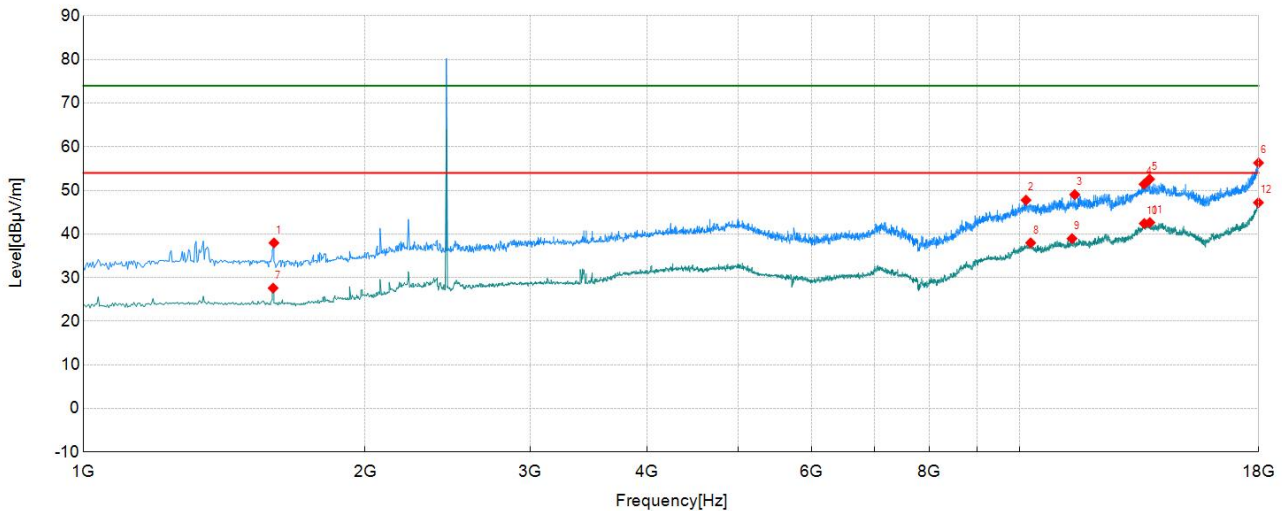
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802.11b-2437MHz

Please refer to the following diagram:

Vertical:



#### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol      | Verdict |
|-----|-----------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|-----|----------|---------|
| 1   | 1598.52         | 64.04          | 37.96          | -26.08        | 74.00          | 36.04       | 150         | 264       | PK  | Vertical | PASS    |
| 2   | 10158.03        | 61.04          | 47.77          | -13.27        | 74.00          | 26.23       | 150         | 295       | PK  | Vertical | PASS    |
| 3   | 11450.29        | 59.53          | 49.04          | -10.49        | 74.00          | 24.96       | 150         | 1         | PK  | Vertical | PASS    |
| 4   | 13579.12        | 62.29          | 51.42          | -10.87        | 74.00          | 22.58       | 150         | 1         | PK  | Vertical | PASS    |
| 5   | 13762.75        | 63.24          | 52.56          | -10.68        | 74.00          | 21.44       | 150         | 167       | PK  | Vertical | PASS    |
| 6   | 17993.20        | 58.98          | 56.30          | -2.68         | 74.00          | 17.70       | 150         | 157       | PK  | Vertical | PASS    |
| 7   | 1595.12         | 53.66          | 27.59          | -26.07        | 54.00          | 26.41       | 150         | 167       | AV  | Vertical | PASS    |
| 8   | 10273.65        | 50.82          | 37.96          | -12.86        | 54.00          | 16.04       | 150         | 305       | AV  | Vertical | PASS    |
| 9   | 11375.48        | 49.60          | 38.95          | -10.65        | 54.00          | 15.05       | 150         | 359       | AV  | Vertical | PASS    |
| 10  | 13585.92        | 53.26          | 42.40          | -10.86        | 54.00          | 11.60       | 150         | 124       | AV  | Vertical | PASS    |
| 11  | 13772.95        | 53.29          | 42.63          | -10.66        | 54.00          | 11.37       | 150         | 8         | AV  | Vertical | PASS    |
| 12  | 17986.40        | 49.98          | 47.19          | -2.79         | 54.00          | 6.81        | 150         | 254       | AV  | Vertical | PASS    |

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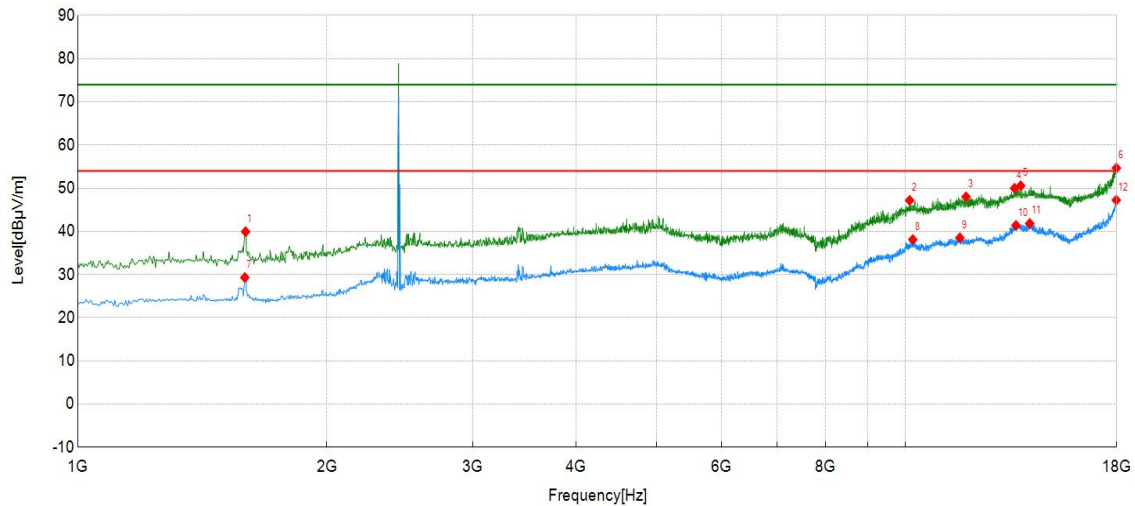
Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

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Horizontal:



#### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol        | Verdict |
|-----|-----------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|-----|------------|---------|
| 1   | 1595.12         | 66.01          | 39.94          | -26.07        | 74.00          | 34.06       | 150         | 310       | PK  | Horizontal | PASS    |
| 2   | 10120.62        | 60.56          | 47.18          | -13.38        | 74.00          | 26.82       | 150         | 130       | PK  | Horizontal | PASS    |
| 3   | 11841.37        | 58.82          | 48.00          | -10.82        | 74.00          | 26.00       | 150         | 310       | PK  | Horizontal | PASS    |
| 4   | 13548.51        | 60.89          | 50.00          | -10.89        | 74.00          | 24.00       | 150         | 70        | PK  | Horizontal | PASS    |
| 5   | 13783.16        | 61.21          | 50.57          | -10.64        | 74.00          | 23.43       | 150         | 240       | PK  | Horizontal | PASS    |
| 6   | 17989.80        | 57.40          | 54.67          | -2.73         | 74.00          | 19.33       | 150         | 160       | PK  | Horizontal | PASS    |
| 7   | 1591.72         | 55.38          | 29.32          | -26.06        | 54.00          | 24.68       | 150         | 30        | AV  | Horizontal | PASS    |
| 8   | 10209.04        | 51.22          | 38.11          | -13.11        | 54.00          | 15.89       | 150         | 60        | AV  | Horizontal | PASS    |
| 9   | 11637.33        | 48.99          | 38.52          | -10.47        | 54.00          | 15.48       | 150         | 160       | AV  | Horizontal | PASS    |
| 10  | 13602.92        | 52.25          | 41.39          | -10.86        | 54.00          | 12.61       | 150         | 230       | AV  | Horizontal | PASS    |
| 11  | 14133.43        | 51.69          | 41.83          | -9.86         | 54.00          | 12.17       | 150         | 280       | AV  | Horizontal | PASS    |
| 12  | 17983.00        | 50.10          | 47.25          | -2.85         | 54.00          | 6.75        | 150         | 240       | AV  | Horizontal | PASS    |

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

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Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

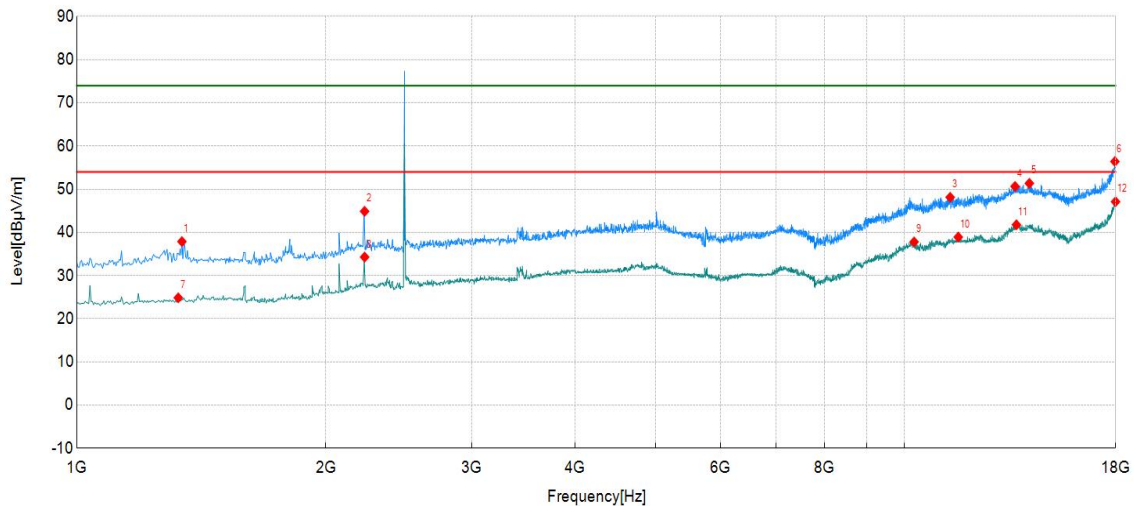
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802.11b-2462MHz

Please refer to the following diagram:

Vertical:



#### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol      | Verdict |
|-----|-----------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|-----|----------|---------|
| 1   | 1340.07         | 63.48          | 37.87          | -25.61        | 74.00          | 36.13       | 150         | 329       | PK  | Vertical | PASS    |
| 2   | 2227.65         | 68.15          | 44.88          | -23.27        | 74.00          | 29.12       | 150         | 158       | PK  | Vertical | PASS    |
| 3   | 11358.47        | 58.82          | 48.13          | -10.69        | 74.00          | 25.87       | 150         | 359       | PK  | Vertical | PASS    |
| 4   | 13606.32        | 61.49          | 50.64          | -10.85        | 74.00          | 23.36       | 150         | 30        | PK  | Vertical | PASS    |
| 5   | 14157.23        | 61.19          | 51.36          | -9.83         | 74.00          | 22.64       | 150         | 359       | PK  | Vertical | PASS    |
| 6   | 17962.59        | 59.62          | 56.42          | -3.20         | 74.00          | 17.58       | 150         | 127       | PK  | Vertical | PASS    |
| 7   | 1326.47         | 50.44          | 24.84          | -25.60        | 54.00          | 29.16       | 150         | 329       | AV  | Vertical | PASS    |
| 8   | 2227.65         | 57.55          | 34.28          | -23.27        | 54.00          | 19.72       | 150         | 170       | AV  | Vertical | PASS    |
| 9   | 10273.65        | 50.65          | 37.79          | -12.86        | 54.00          | 16.21       | 150         | 104       | AV  | Vertical | PASS    |
| 10  | 11616.92        | 49.33          | 38.91          | -10.42        | 54.00          | 15.09       | 150         | 9         | AV  | Vertical | PASS    |
| 11  | 13657.33        | 52.58          | 41.77          | -10.81        | 54.00          | 12.23       | 150         | 2         | AV  | Vertical | PASS    |
| 12  | 17993.20        | 49.79          | 47.11          | -2.68         | 54.00          | 6.89        | 150         | 222       | AV  | Vertical | PASS    |

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Dongguan, Guangdong, China

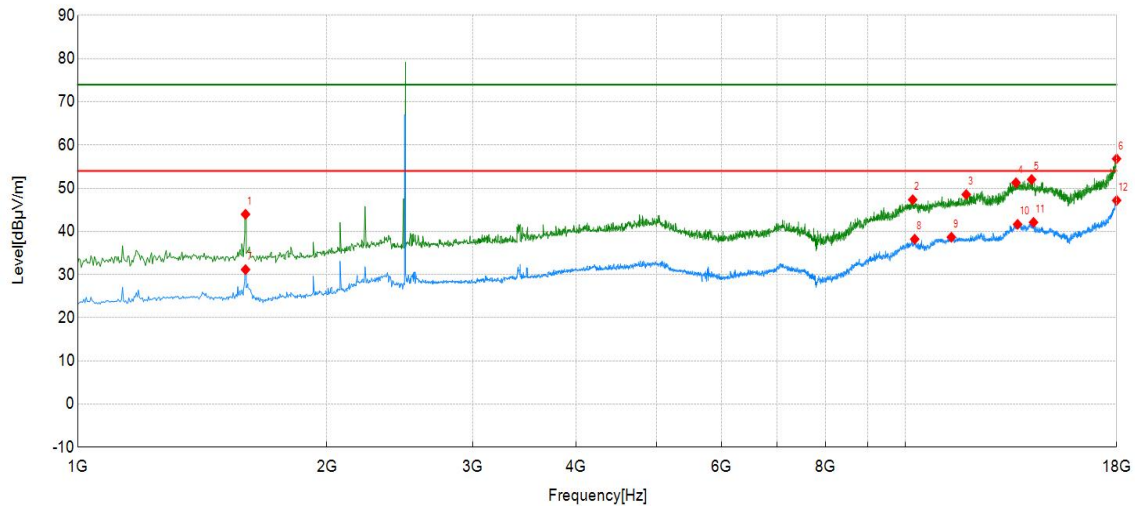
Tel: +86-0769-22221088

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Horizontal:



#### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol        | Verdict |
|-----|-----------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|-----|------------|---------|
| 1   | 1595.12         | 70.03          | 43.96          | -26.07        | 74.00          | 30.04       | 150         | 1         | PK  | Horizontal | PASS    |
| 2   | 10205.64        | 60.46          | 47.34          | -13.12        | 74.00          | 26.66       | 150         | 221       | PK  | Horizontal | PASS    |
| 3   | 11844.77        | 59.35          | 48.54          | -10.81        | 74.00          | 25.46       | 150         | 178       | PK  | Horizontal | PASS    |
| 4   | 13602.92        | 62.13          | 51.27          | -10.86        | 74.00          | 22.73       | 150         | 157       | PK  | Horizontal | PASS    |
| 5   | 14208.24        | 61.76          | 52.01          | -9.75         | 74.00          | 21.99       | 150         | 126       | PK  | Horizontal | PASS    |
| 6   | 17996.60        | 59.44          | 56.82          | -2.62         | 74.00          | 17.18       | 150         | 356       | PK  | Horizontal | PASS    |
| 7   | 1595.12         | 57.22          | 31.15          | -26.07        | 54.00          | 22.85       | 150         | 1         | AV  | Horizontal | PASS    |
| 8   | 10263.45        | 51.10          | 38.20          | -12.90        | 54.00          | 15.80       | 150         | 114       | AV  | Horizontal | PASS    |
| 9   | 11365.27        | 49.32          | 38.64          | -10.68        | 54.00          | 15.36       | 150         | 83        | AV  | Horizontal | PASS    |
| 10  | 13664.13        | 52.45          | 41.63          | -10.82        | 54.00          | 12.37       | 150         | 50        | AV  | Horizontal | PASS    |
| 11  | 14283.06        | 51.80          | 42.09          | -9.71         | 54.00          | 11.91       | 150         | 350       | AV  | Horizontal | PASS    |
| 12  | 18000.00        | 49.74          | 47.18          | -2.56         | 54.00          | 6.82        | 150         | 360       | AV  | Horizontal | PASS    |

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

#### HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

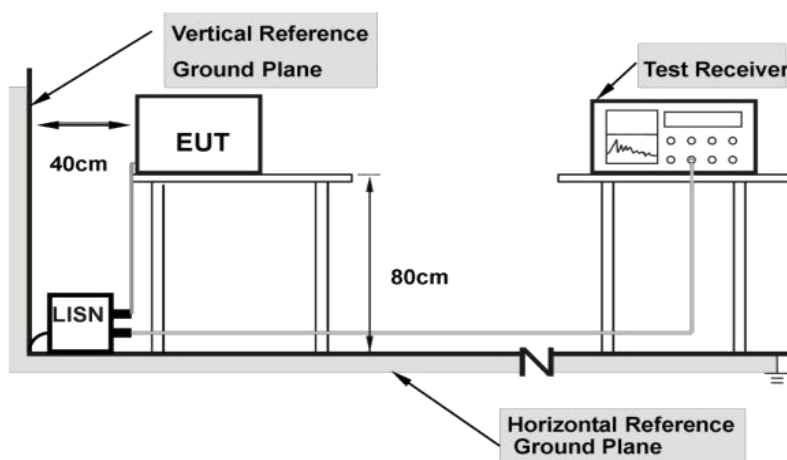
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## 7.8. Conducted Emission

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------|
| Test Requirement: | FCC Part 15.207(a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |           |
| Test Mode:        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |           |
| Limit:            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |           |
|                   | Frequency of Emission (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Conducted Limit (dBuV) |           |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quasi-peak             | Average   |
|                   | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 66 to 56*              | 56 to 46* |
|                   | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 56                     | 46        |
|                   | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 60                     | 50        |
|                   | *Decreases with the logarithm of the frequency.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |           |
| Test Procedure:   | For tabletop equipment, the EUT along with its peripherals were placed on a 1.0m(W)×1.5m(L) and 0.8m in height wooden table. The EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled. |                        |           |
| Test Result:      | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |           |

### 7.8.1. Test Setup



## HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

Website: [www.hdt-lab.com](http://www.hdt-lab.com)

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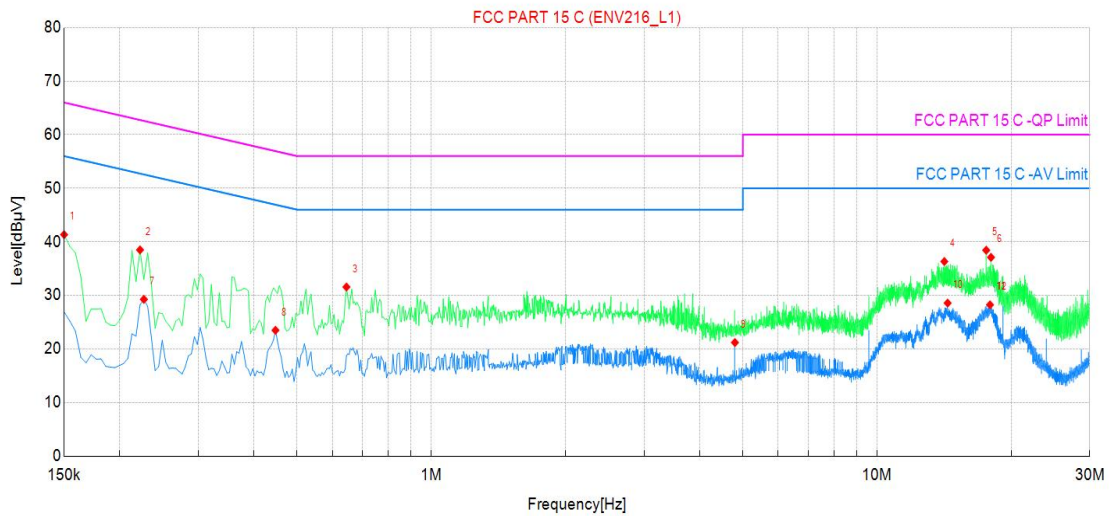
## 7.8.2. Test Result

|              |                               |
|--------------|-------------------------------|
| Test Voltage | DC 5V from adapter(120V/60Hz) |
|--------------|-------------------------------|

Worst-case:802.11b mode-2412MHz

Please refer to the following diagram:

Line:



### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Phase | Detector | Verdict |
|-----|-----------------|----------------|--------------|-------------|--------------|-------------|-------|----------|---------|
| 1   | 0.150000        | 22.05          | 41.34        | 19.29       | 66.00        | 24.66       | L1    | PK       | PASS    |
| 2   | 0.222000        | 19.31          | 38.49        | 19.18       | 62.74        | 24.25       | L1    | PK       | PASS    |
| 3   | 0.645000        | 12.33          | 31.57        | 19.24       | 56.00        | 24.43       | L1    | PK       | PASS    |
| 4   | 14.158500       | 17.03          | 36.32        | 19.29       | 60.00        | 23.68       | L1    | PK       | PASS    |
| 5   | 17.578500       | 19.08          | 38.44        | 19.36       | 60.00        | 21.56       | L1    | PK       | PASS    |
| 6   | 18.019500       | 17.72          | 37.10        | 19.38       | 60.00        | 22.90       | L1    | PK       | PASS    |
| 7   | 0.226500        | 10.08          | 29.26        | 19.18       | 52.58        | 23.32       | L1    | AV       | PASS    |
| 8   | 0.447000        | 4.38           | 23.49        | 19.11       | 46.93        | 23.44       | L1    | AV       | PASS    |
| 9   | 4.798500        | 1.99           | 21.20        | 19.21       | 46.00        | 24.80       | L1    | AV       | PASS    |
| 10  | 14.401500       | 9.29           | 28.57        | 19.28       | 50.00        | 21.43       | L1    | AV       | PASS    |
| 11  | 17.925000       | 8.86           | 28.24        | 19.38       | 50.00        | 21.76       | L1    | AV       | PASS    |
| 12  | 18.001500       | 8.89           | 28.27        | 19.38       | 50.00        | 21.73       | L1    | AV       | PASS    |

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Dongguan, Guangdong, China

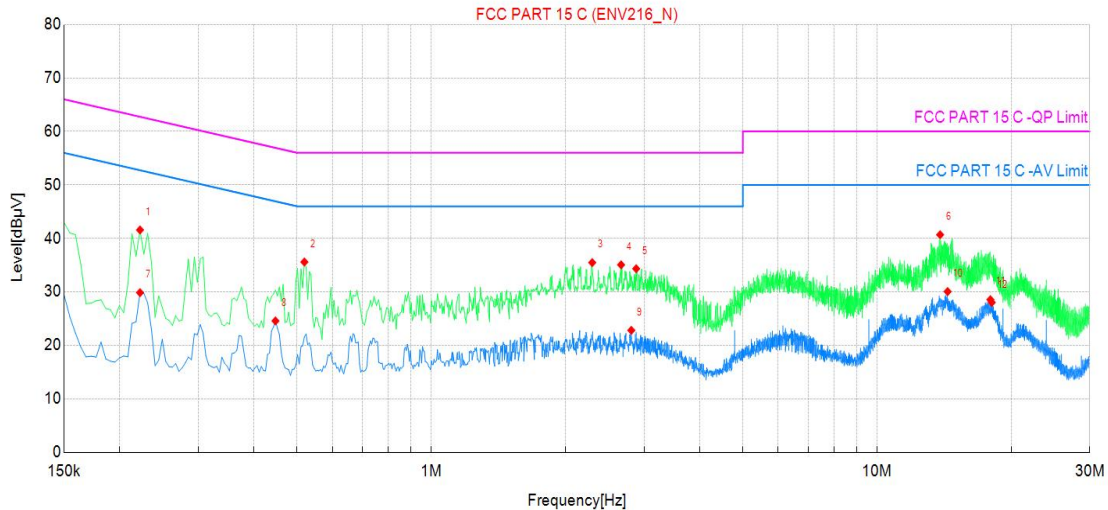
Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

Website: [www.hdt-lab.com](http://www.hdt-lab.com)

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Neutral:



#### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Phase | Detector | Verdict |
|-----|-----------------|----------------|--------------|-------------|--------------|-------------|-------|----------|---------|
| 1   | 0.222000        | 22.39          | 41.58        | 19.19       | 62.74        | 21.16       | N     | PK       | PASS    |
| 2   | 0.519000        | 16.39          | 35.59        | 19.20       | 56.00        | 20.41       | N     | PK       | PASS    |
| 3   | 2.296500        | 16.29          | 35.48        | 19.19       | 56.00        | 20.52       | N     | PK       | PASS    |
| 4   | 2.665500        | 15.88          | 35.06        | 19.18       | 56.00        | 20.94       | N     | PK       | PASS    |
| 5   | 2.881500        | 15.16          | 34.33        | 19.17       | 56.00        | 21.67       | N     | PK       | PASS    |
| 6   | 13.852500       | 21.43          | 40.68        | 19.25       | 60.00        | 19.32       | N     | PK       | PASS    |
| 7   | 0.222000        | 10.66          | 29.85        | 19.19       | 52.74        | 22.89       | N     | AV       | PASS    |
| 8   | 0.447000        | 5.38           | 24.57        | 19.19       | 46.93        | 22.36       | N     | AV       | PASS    |
| 9   | 2.809500        | 3.64           | 22.81        | 19.17       | 46.00        | 23.19       | N     | AV       | PASS    |
| 10  | 14.401500       | 10.81          | 30.06        | 19.25       | 50.00        | 19.94       | N     | AV       | PASS    |
| 11  | 17.961000       | 9.17           | 28.55        | 19.38       | 50.00        | 21.45       | N     | AV       | PASS    |
| 12  | 18.087000       | 8.63           | 28.02        | 19.39       | 50.00        | 21.98       | N     | AV       | PASS    |

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

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Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

Website: [www.hdt-lab.com](http://www.hdt-lab.com)

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## 8. PHOTOGRAPHS OF TEST SET-UP

For photographs of the test set-up, refer to the appendix file.(Test Setup Photo)

### **HD Testing Technology (GuangDong) Co., Ltd.**

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

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## 9. PHOTOGRAPHS OF EUT

For photographs of the EUT, refer to the appendix file(EUT External Photos and EUT Internal Photos).

\*\*\* End of Report \*\*\*

### HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

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