

# Test Report

**Applicant** : Dongguan Xintai instrument Co.,Ltd.  
**Address** : Room 201, Building 16, # 3, Yongtai Road, Tangxia Town,  
Dongguan City,Guangdong Province,China,523710  
**Product Name** : Thermal Imagers  
**Brand Mark** : N/A  
**Model** : HT A201  
**Series model** : HT A202, HT A203  
**FCC ID** : 2AVBO-A201  
**Report Number** : BLA-EMC-202412-A6101  
**Date of Receipt** : Dec. 19, 2024  
**Date of Test** : Dec. 19, 2024 to Jan. 08, 2025  
**Test Standard** : 47 CFR Part 15, Subpart C 15.247  
**Test Result** : Pass

Compiled by:

charlie

Review by:

Sueels

Approved by:

Jing Zheng

Issued Date:

Jan. 20, 2025



## BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

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## Revise Record

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 01          | Jan. 20, 2025 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |

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## 1 General information

### 1.1 General information

|              |                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------|
| Applicant    | Dongguan Xintai instrument Co.,Ltd.                                                                   |
| Address      | Room 201, Building 16, # 3, Yongtai Road, Tangxia Town, Dongguan City,Guangdong Province,China,523710 |
| Manufacturer | Dongguan Xintai instrument Co.,Ltd.                                                                   |
| Address      | Room 201, Building 16, # 3, Yongtai Road, Tangxia Town, Dongguan City,Guangdong Province,China,523710 |
| Factory      | Dongguan Xintai instrument Co.,Ltd.                                                                   |
| Address      | Room 201, Building 16, # 3, Yongtai Road, Tangxia Town, Dongguan City,Guangdong Province,China,523710 |

### 1.2 General description of EUT

|                             |                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Product Name                | Thermal Imagers                                                                                                                  |
| Model No.                   | HT A201                                                                                                                          |
| Series model                | HT A202, HT A203                                                                                                                 |
| Differences of Series model | Their electrical circuit design layout, components used and internal wiring are identical, only the model name are different.    |
| Operation Frequency:        | 2412MHz-2462MHz                                                                                                                  |
| Operation Frequency:        | 802.11b/g/n(HT20): 2412MHz to 2462MHz<br>802.11n(HT40): 2422MHz to 2452MHz                                                       |
| Modulation Type:            | 802.11b: DSSS(CCK/QPSK/BPSK)<br>802.11g: OFDM(BPSK/QPSK/16QAM/64QAM)<br>802.11n (HT20 and HT40): OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Channel Spacing:            | 5MHz                                                                                                                             |
| Number of Channels:         | 802.11b/g/n(HT20):11<br>802.11n(HT40):7                                                                                          |
| Antenna Type:               | PCB antenna                                                                                                                      |
| Antenna Gain:               | 3dBi(Provided by customer)                                                                                                       |
| Power supply:               | Battery DC 3.70V                                                                                                                 |
| Hardware Version            | N/A                                                                                                                              |

|                                                                                                                                             |     |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Software Version                                                                                                                            | N/A |
| <i>Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.</i> |     |

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## 2 Test summary

| No. | Test item                                             | FCC standard           | Test Method(Clause)                 | Result |
|-----|-------------------------------------------------------|------------------------|-------------------------------------|--------|
| 1   | Antenna Requirement                                   | §15.203                | N/A                                 | Pass   |
| 2   | Conducted Emissions at AC Power Line (150kHz-30MHz)   | §15.207                | ANSI C63.10-2013 Clause 6.2         | Pass   |
| 3   | Conducted Peak Output Power                           | §15.247 (b)(3)         | ANSI C63.10-2013, Clause 11.9.1.3   | Pass   |
| 4   | Minimum 6dB Bandwidth                                 | §15.247 (a)(2)         | ANSI C63.10-2013, Clause 11.8.1     | Pass   |
| 5   | Power Spectrum Density                                | §15.247 (e)            | ANSI C63.10-2013, Clause 11.10.2    | Pass   |
| 6   | Conducted Band Edges Measurement                      | §15.247(d)             | ANSI C63.10-2013, Clause 11.13.3.2  | Pass   |
| 7   | Conducted Spurious Emissions                          | §15.247(d)             | ANSI C63.10-2013, Clause 11.11      | Pass   |
| 8   | Radiated Spurious Emissions                           | §15.247 (d)<br>§15.209 | ANSI C63.10-2013 Clause 6.4&6.5&6.6 | Pass   |
| 9   | Radiated Emissions which fall in the restricted bands | §15.247 (d)<br>§15.205 | ANSI C63.10-2013 Clause 6.10.5      | Pass   |

### 3 Test Configuration

#### 3.1 Test mode

| Test Mode <sup>Note 1</sup> | Description                                                                      |
|-----------------------------|----------------------------------------------------------------------------------|
| TX                          | Keep the EUT in continuously transmitting mode with modulation. (Duty cycle>98%) |
| RX                          | Keep the EUT in receiving mode                                                   |
| TX Low channel              | Keep the EUT in continuously transmitting mode in low channel                    |
| TX middle channel           | Keep the EUT in continuously transmitting mode in middle channel                 |
| TX high channel             | Keep the EUT in continuously transmitting mode in high channel                   |

*Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use; the EUT was operated in the engineering mode <sup>Note 2</sup> to fix the TX or Rx frequency that was for the purpose of the measurements.*

*Note 2: Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.*

| Power level setup in software |           |                 |                    |
|-------------------------------|-----------|-----------------|--------------------|
| Test Software Name            | SecureCRT |                 |                    |
| Mode                          | Channel   | Frequency (MHz) | Soft Set           |
| 802.11b/g/n(HT20)/n(HT40)     | 1         | 2412            | TX level : Default |
|                               | 6         | 2437            |                    |
|                               | 11        | 2462            |                    |
|                               | 3         | 2422            |                    |
|                               | 9         | 2452            |                    |

#### 3.2 Operation Frequency each of channel

| Operation Frequency each of channel(802.11b/g/n HT20) |           |         |           |         |           |         |           |
|-------------------------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                                               | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1                                                     | 2412MHz   | 5       | 2432MHz   | 9       | 2452MHz   | 13      | 2462MHz   |
| 2                                                     | 2417MHz   | 6       | 2437MHz   | 10      | 2457MHz   | --      | --        |
| 3                                                     | 2422MHz   | 7       | 2442MHz   | 11      | 2462MHz   | --      | --        |
| 4                                                     | 2427MHz   | 8       | 2447MHz   | 12      | 2467MHz   | --      | --        |

| Operation Frequency each of channel(802.11n HT40) |           |         |           |         |           |         |           |
|---------------------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                                           | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 3                                                 | 2422MHz   | 7       | 2442MHz   | 11      | 2462MHz   | --      | --        |
| 4                                                 | 2427MHz   | 8       | 2447MHz   | --      | --        | --      | --        |
| 5                                                 | 2432MHz   | 9       | 2452MHz   | --      | --        | --      | --        |
| 6                                                 | 2437MHz   | 10      | 2457MHz   | --      | --        | --      | --        |

### 3.3 Test channel

For 802.11b/g/n (HT20), the lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 1 (2412MHz), 6 (2437MHz) and 11 (2462MHz); 802.11n HT40, the lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 3 (2422MHz), 6 (2437MHz) and 9 (2452MHz).

### 3.4 Auxiliary equipment

| Device Type                                                       | Manufacturer | Model Name   | Serial No. | Remark                             |
|-------------------------------------------------------------------|--------------|--------------|------------|------------------------------------|
| PC                                                                | Lenovo       | E460C        | N/A        | From lab<br>(No.BLA-ZC-BS-2022005) |
| AC adapter                                                        | PISEN        | ZY2207-A521H | N/A        | From lab                           |
| <b>Note:</b><br>"--" mean no any auxiliary device during testing. |              |              |            |                                    |

### 3.5 Test environment

| Environment | Temperature | Voltage  |
|-------------|-------------|----------|
| Normal      | 25°C        | DC 3.70V |

## 4 Laboratory information

### 4.1 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

|                          |                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------|
| Company name:            | BlueAsia of Technical Services(Shenzhen) Co., Ltd.                                                          |
| Address:                 | Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China |
| CNAS accredited No.:     | L9788                                                                                                       |
| A2LA Cert. No.:          | 5071.01                                                                                                     |
| FCC Designation No.:     | CN1252                                                                                                      |
| ISED CAB identifier No.: | CN0028                                                                                                      |
| Telephone:               | +86-755-28682673                                                                                            |
| FAX:                     | +86-755-28682673                                                                                            |

### 4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=1.96$ .

| Parameter                                      | Expanded Uncertainty            |
|------------------------------------------------|---------------------------------|
| Radiated Emission(9kHz-30MHz)                  | $\pm 4.34\text{dB}$             |
| Radiated Emission(30Mz-1000MHz)                | $\pm 4.24\text{dB}$             |
| Radiated Emission(1GHz-18GHz)                  | $\pm 4.68\text{dB}$             |
| AC Power Line Conducted Emission(150kHz-30MHz) | $\pm 3.45\text{dB}$             |
| Occupied Channel Bandwidth                     | $\pm 5\%$                       |
| RF output power, conducted                     | $\pm 1.5\text{ dB}$             |
| Power Spectral Density, conducted              | $\pm 3.0\text{ dB}$             |
| Unwanted Emissions, conducted                  | $\pm 3.0\text{ dB}$             |
| Temperature                                    | $\pm 3\text{ }^{\circ}\text{C}$ |
| Supply voltages                                | $\pm 3\%$                       |
| Time                                           | $\pm 5\%$                       |

## 5 Test equipment

### Radiated Spurious Emissions (Below 1GHz)

| Equipment      | Name              | Model            | Manufacture | S/N    | Cal. Date  | Due. Date  |
|----------------|-------------------|------------------|-------------|--------|------------|------------|
| BLA-EMC-002-01 | Anechoic chamber  | 9*6*6 chamber    | SKET        | N/A    | 2024/3/27  | 2027/3/26  |
| BLA-EMC-002-02 | Control room      | 966 control room | SKET        | N/A    | 2024/3/27  | 2027/3/26  |
| BLA-EMC-009    | EMI receiver      | ESR7             | R&S         | 101199 | 2024/08/08 | 2025/08/07 |
| BLA-EMC-043    | Loop antenna      | FMZB1519B        | Schwarzbeck | 00102  | 2024/06/29 | 2026/06/28 |
| BLA-EMC-065    | Broadband antenna | VULB9168         | Schwarzbeck | 01065P | 2024/06/29 | 2026/06/27 |
| BLA-XC-01      | Coaxial Cable     | N/A              | BlueAsia    | V01    | N/A        | N/A        |
| BLA-XC-02      | Coaxial Cable     | N/A              | BlueAsia    | V02    | N/A        | N/A        |

### Radiated Spurious Emissions (Above 1GHz)

| Equipment      | Name              | Model                | Manufacture | S/N              | Cal. Date  | Due. Date  |
|----------------|-------------------|----------------------|-------------|------------------|------------|------------|
| BLA-EMC-001-01 | Anechoic chamber  | 9*6*6 chamber        | SKET        | N/A              | 2023/11/16 | 2026/11/15 |
| BLA-EMC-001-02 | Control Room      | 966 control room     | SKET        | N/A              | 2023/11/16 | 2025/11/15 |
| BLA-EMC-008    | Spectrum          | FSP40                | R&S         | 100817           | 2024/08/08 | 2025/08/07 |
| BLA-EMC-012    | Broadband antenna | VULB9168             | Schwarzbeck | 00836<br>P:00227 | 2022/10/12 | 2025/10/11 |
| BLA-EMC-013    | Horn Antenna      | BBHA9120D            | Schwarzbeck | 01892            | 2024/06/29 | 2026/06/28 |
| BLA-EMC-014    | Amplifier         | PA_000318G-45        | SKET        | PA201804<br>3003 | 2024/08/08 | 2025/08/07 |
| BLA-EMC-046    | Filter bank       | 2.4G/5G Filter bank  | SKET        | N/A              | 2024/06/28 | 2025/06/27 |
| BLA-EMC-061    | Receiver          | ESPI7                | R&S         | 101477           | 2024/06/28 | 2025/06/27 |
| BLA-EMC-066    | Amplifier         | LNPA_30M01<br>G-30   | SKET        | SK202106<br>0801 | 2024/06/28 | 2025/06/27 |
| BLA-EMC-086    | Amplifier         | LNPA_18G40<br>G-50dB | SKET        | SK202207<br>1301 | 2024/06/28 | 2025/06/27 |
| BLA-EMC-087    | Horn Antenna      | BBHA 9170            | Schwarzbeck | 1106             | 2024/06/29 | 2026/06/28 |

|           |               |     |          |     |     |     |
|-----------|---------------|-----|----------|-----|-----|-----|
| BLA-XC-03 | Coaxial Cable | N/A | BlueAsia | V03 | N/A | N/A |
| BLA-XC-04 | Coaxial Cable | N/A | BlueAsia | V04 | N/A | N/A |

**Conducted Emissions**

| Equipment       | Name                                            | Model          | Manufacturer | S/N               | Cal. Date  | Due. Date  |
|-----------------|-------------------------------------------------|----------------|--------------|-------------------|------------|------------|
| BLA-EMC-003-001 | Shield room                                     | 8*3*3          | SKET         | N/A               | 2023/11/16 | 2025/11/15 |
| BLA-EMC-009     | EMI receiver                                    | ESR7           | R&S          | 101199            | 2024/08/08 | 2025/08/07 |
| BLA-EMC-011     | LISN                                            | ENV216         | R&S          | 101372            | 2024/08/08 | 2025/08/07 |
| BLA-EMC-033     | Impedance transformer                           | DC-2GHz        | DFXP         | N/A               | 2024/06/28 | 2025/06/27 |
| BLA-EMC-041     | LISN                                            | AT166-2        | ATTEN        | AKK180600<br>0003 | 2024/08/08 | 2025/08/07 |
| BLA-EMC-045     | Impedance stable network                        | ISNT8-cat<br>6 | TESEQ        | 53580             | 2024/08/08 | 2025/08/07 |
| BLA-EMC-095     | Single-channel vehicle artificial power network | NNBM<br>8124   | Schwarzbeck  | 01045             | 2024/06/28 | 2025/06/27 |
| BLA-EMC-096     | Single-channel vehicle artificial power network | NNBM<br>8124   | Schwarzbeck  | 01075             | 2024/06/28 | 2025/06/27 |
| BLA-XC-05       | Coaxial Cable                                   | N/A            | BlueAsia     | V05               | N/A        | N/A        |

**RF conducted**

| Equipment       | Name                       | Model    | Manufacture     | S/N           | Cal. Date  | Due. Date  |
|-----------------|----------------------------|----------|-----------------|---------------|------------|------------|
| BLA-EMC-003-003 | Shield room                | 5*3*3    | SKET            | N/A           | 2023/11/16 | 2025/11/15 |
| BLA-EMC-016     | Signal Generator           | N5182A   | Agilent         | MY52420567    | 2024/06/28 | 2025/06/27 |
| BLA-EMC-038     | Spectrum                   | N9020A   | Agilent         | MY49100060    | 2024/08/08 | 2025/08/07 |
| BLA-EMC-042     | Power sensor               | RPR3006W | DARE            | 14I00889SN042 | 2024/08/08 | 2025/08/07 |
| BLA-EMC-044     | Radio communication tester | CMW500   | R&S             | 132429        | 2024/08/08 | 2025/08/07 |
| BLA-EMC-064     | Signal Generator           | N5182B   | KEYSIGHT        | MY58108892    | 2024/06/28 | 2025/06/27 |
| BLA-EMC-079     | Spectrum                   | N9020A   | Agilent         | MY54420161    | 2024/08/08 | 2025/08/07 |
| BLA-EMC-088     | Audio Analyzer             | ATS-1    | Audio Precision | ATS141094     | 2024/06/28 | 2025/06/27 |

**Test software**

| Software No. | Software Name | Manufacture | Software version | Test site      |
|--------------|---------------|-------------|------------------|----------------|
| BLA-EMC-S001 | EZ-EMC        | EZ          | EEMC-3A1+        | RE(Below 1GHz) |
| BLA-EMC-S002 | EZ-EMC        | EZ          | EEMC-3A1+        | RE(Above 1GHz) |
| BLA-EMC-S003 | EZ-EMC        | EZ          | EEMC-3A1+        | CE             |
| BLA-EMC-S010 | MTS 8310      | MW          | 2.0.0.0          | RF             |

## 6 Test result

### 6.1 Antenna requirement

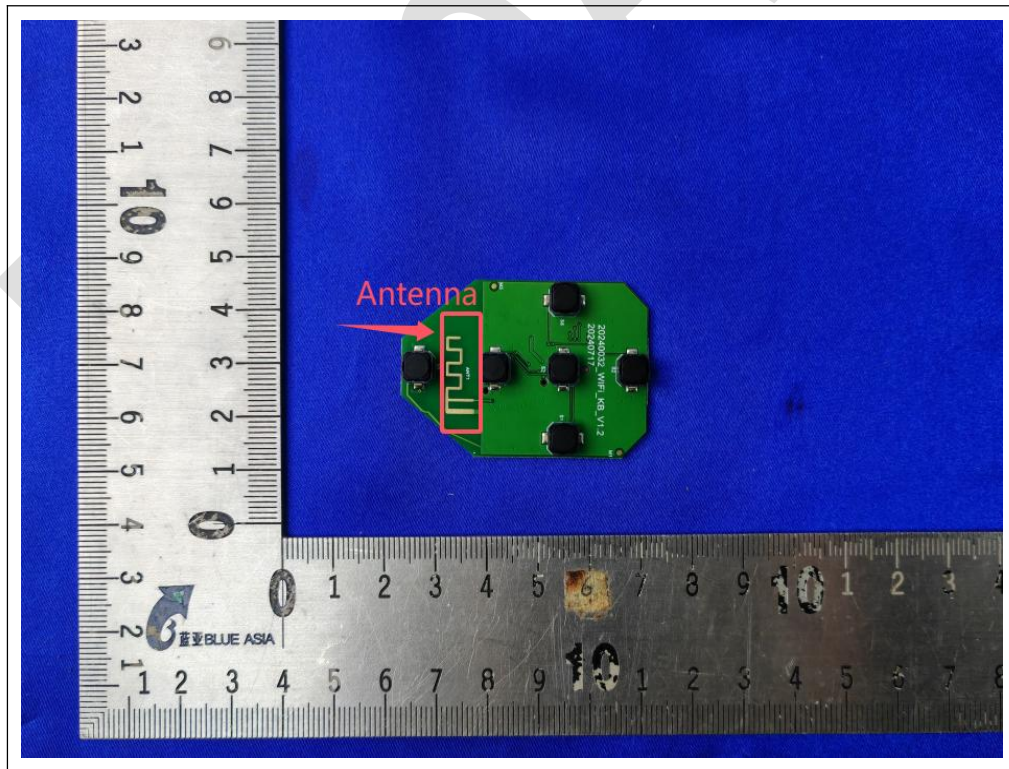
|               |                                  |
|---------------|----------------------------------|
| Test Standard | 47 CFR Part 15, Subpart C 15.203 |
| Test Method   | N/A                              |

#### 6.1.1 Requirement

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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of a so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT antenna:

The antenna is PCB antenna. The best case gain of the antenna is 3dBi.



## 6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

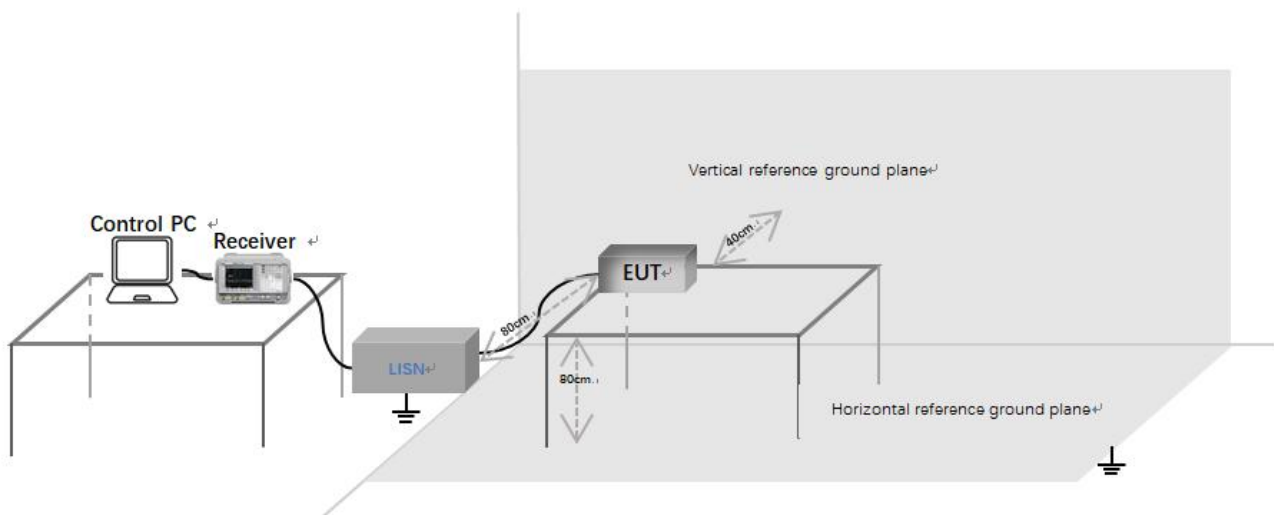
|                        |                                  |
|------------------------|----------------------------------|
| Test Standard          | 47 CFR Part 15, Subpart C 15.207 |
| Test Method            | ANSI C63.10 (2013) Section 6.2   |
| Test Mode (Pre-Scan)   | TX                               |
| Test Mode (Final Test) | TX                               |

### 6.2.1 Limit

| Frequency of emission(MHz) | Conducted limit(dB $\mu$ V) |           |
|----------------------------|-----------------------------|-----------|
|                            | 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.

### 6.2.2 Test setup



Description of test setup connection:

- Connect the control PC to the receiver through a USB to GPIB cable;
- The receiver is connected to the LISN through a coaxial line;
- Connect the power port of LISN to the EUT.

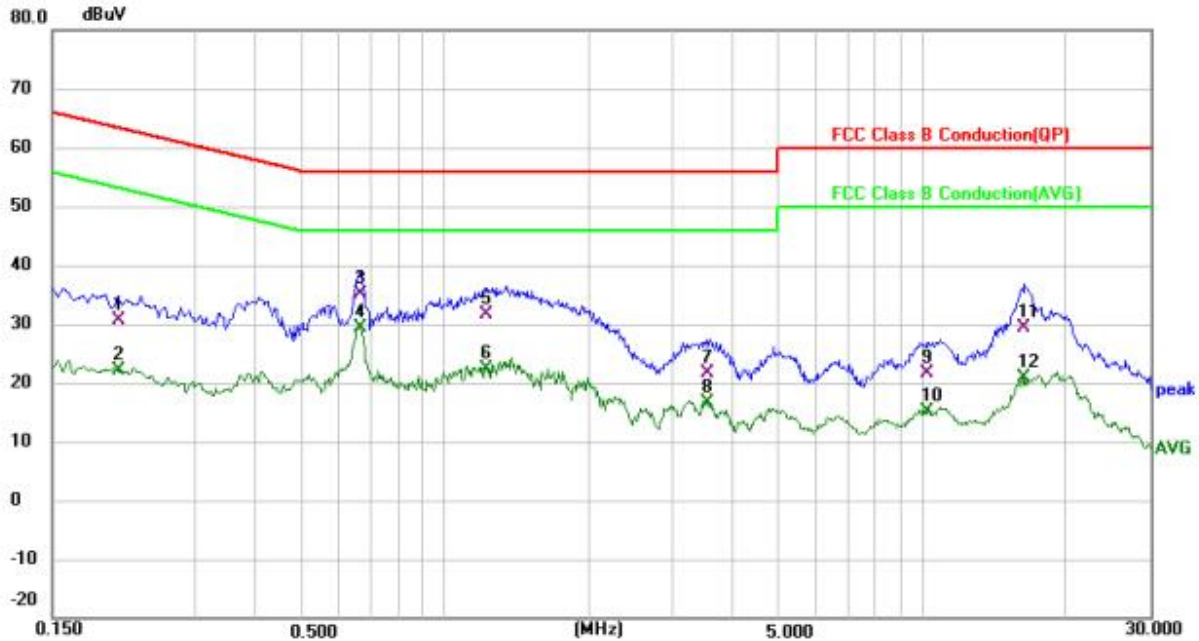
### 6.2.3 Procedure

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

LISN=Read Level+ Cable Loss+ LISN Factor

## 6.2.4 Test data

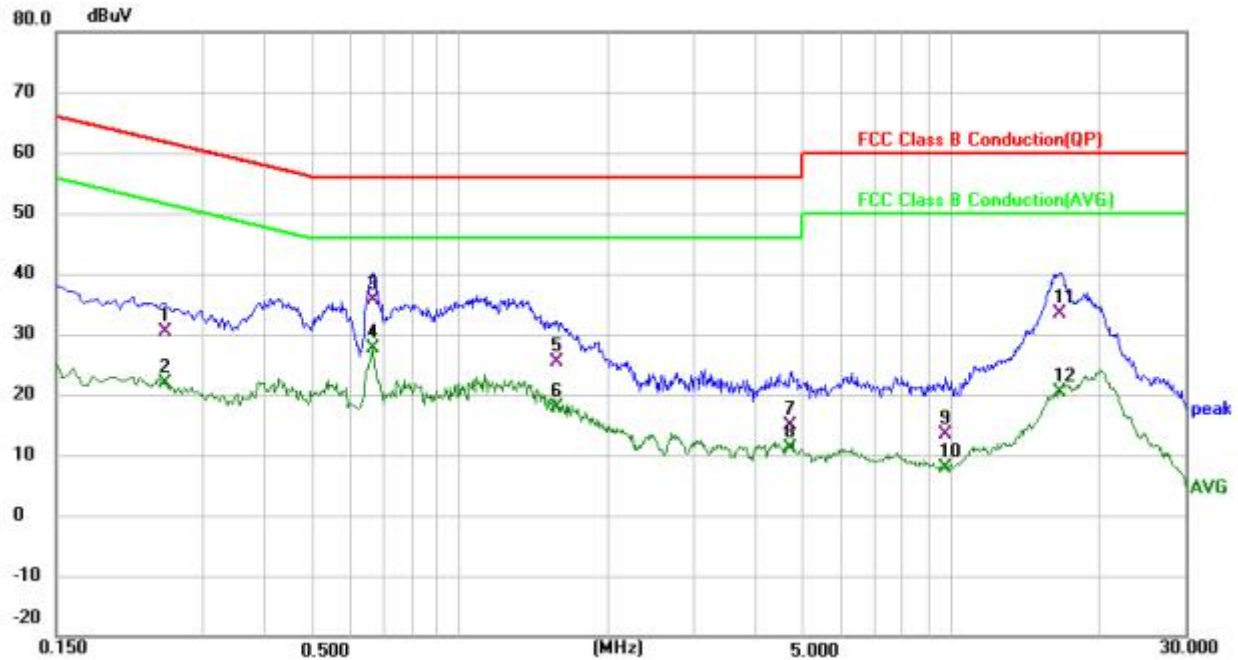
[Test mode: TX]; [Line: Line];[Power:AC 120V/60Hz]



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1   |     | 0.2060       | 20.30                    | 10.28                   | 30.58                    | 63.37         | -32.79     | QP       |
| 2   |     | 0.2060       | 11.82                    | 10.28                   | 22.10                    | 53.37         | -31.27     | AVG      |
| 3   |     | 0.6660       | 25.41                    | 9.79                    | 35.20                    | 56.00         | -20.80     | QP       |
| 4   | *   | 0.6660       | 19.65                    | 9.79                    | 29.44                    | 46.00         | -16.56     | AVG      |
| 5   |     | 1.2220       | 21.85                    | 9.81                    | 31.66                    | 56.00         | -24.34     | QP       |
| 6   |     | 1.2220       | 12.63                    | 9.81                    | 22.44                    | 46.00         | -23.56     | AVG      |
| 7   |     | 3.5340       | 11.58                    | 10.09                   | 21.67                    | 56.00         | -34.33     | QP       |
| 8   |     | 3.5340       | 6.62                     | 10.09                   | 16.71                    | 46.00         | -29.29     | AVG      |
| 9   |     | 10.2100      | 21.08                    | 0.50                    | 21.58                    | 60.00         | -38.42     | QP       |
| 10  |     | 10.2100      | 14.52                    | 0.50                    | 15.02                    | 50.00         | -34.98     | AVG      |
| 11  |     | 16.3180      | 17.10                    | 12.17                   | 29.27                    | 60.00         | -30.73     | QP       |
| 12  |     | 16.3180      | 8.62                     | 12.17                   | 20.79                    | 50.00         | -29.21     | AVG      |

**Test Result: Pass**

[Test mode: TX]; [Line: Neutral];[Power:AC 120V/60Hz]



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1   |     | 0.2500       | 20.03                    | 10.26                   | 30.29                    | 61.76         | -31.47     | QP       |
| 2   |     | 0.2500       | 11.57                    | 10.26                   | 21.83                    | 51.76         | -29.93     | AVG      |
| 3   |     | 0.6620       | 25.86                    | 9.73                    | 35.59                    | 56.00         | -20.41     | QP       |
| 4   | *   | 0.6620       | 17.88                    | 9.73                    | 27.61                    | 46.00         | -18.39     | AVG      |
| 5   |     | 1.5740       | 15.68                    | 9.78                    | 25.46                    | 56.00         | -30.54     | QP       |
| 6   |     | 1.5740       | 8.13                     | 9.78                    | 17.91                    | 46.00         | -28.09     | AVG      |
| 7   |     | 4.7100       | 4.71                     | 10.10                   | 14.81                    | 56.00         | -41.19     | QP       |
| 8   |     | 4.7100       | 1.14                     | 10.10                   | 11.24                    | 46.00         | -34.76     | AVG      |
| 9   |     | 9.7500       | 2.83                     | 10.65                   | 13.48                    | 60.00         | -46.52     | QP       |
| 10  |     | 9.7500       | -2.88                    | 10.65                   | 7.77                     | 50.00         | -42.23     | AVG      |
| 11  |     | 16.6060      | 21.18                    | 12.18                   | 33.36                    | 60.00         | -26.64     | QP       |
| 12  |     | 16.6060      | 8.25                     | 12.18                   | 20.43                    | 50.00         | -29.57     | AVG      |

Test Result: Pass

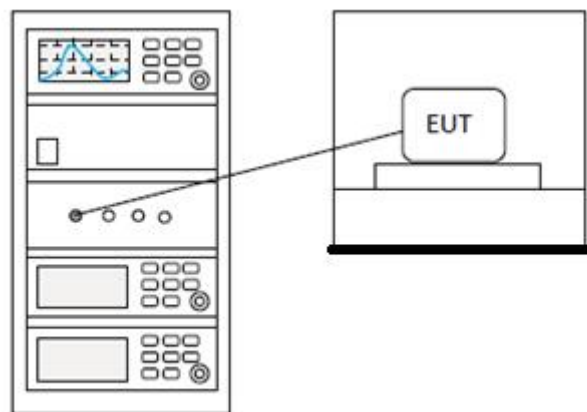
### 6.3 Conducted peak output Power

|                               |                                        |
|-------------------------------|----------------------------------------|
| <b>Test Standard</b>          | 47 CFR Part 15, Subpart C 15.247(b)(3) |
| <b>Test Method</b>            | ANSI C63.10 (2013) Section 11.9.1.3    |
| <b>Test Mode (Pre-Scan)</b>   | TX                                     |
| <b>Test Mode (Final Test)</b> | TX                                     |

#### 6.3.1 Limit

| Frequency range(MHz) | Output power of the intentional radiator(watt)         |
|----------------------|--------------------------------------------------------|
| 902-928              | 1 for $\geq 50$ hopping channels                       |
|                      | 0.25 for $25 \leq \text{hopping channels} < 50$        |
|                      | 1 for digital modulation                               |
| 2400-2483.5          | 1 for $\geq 75$ non-overlapping hopping channels       |
|                      | 0.125 for all other frequency hopping systems          |
|                      | 1 for digital modulation                               |
| 5725-5850            | 1 for frequency hopping systems and digital modulation |

#### 6.3.2 Test setup



#### 6.3.3 Test data

Note: PK power sensor is used to read PK Conducted power power directly

Pass: Please refer to appendix A for details

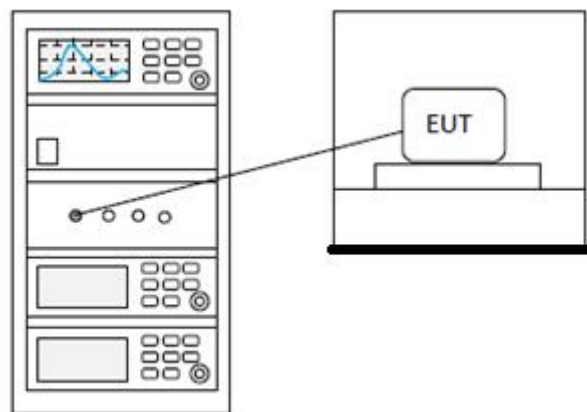
## 6.4 Minimum 6dB bandwidth

|                        |                                        |
|------------------------|----------------------------------------|
| Test Standard          | 47 CFR Part 15, Subpart C 15.247(a)(2) |
| Test Method            | ANSI C63.10 (2013) Section 11.8.1      |
| Test Mode (Pre-Scan)   | TX                                     |
| Test Mode (Final Test) | TX                                     |

### 6.4.1 Limit

≥500 kHz

### 6.4.2 Test setup



### 6.4.3 Test data

Pass: Please refer to appendix A for details