

CIXI ZHONGBANG ELECTRIC APPLIANCE CO., LTD.

EMC TEST REPORT

Report Type:

FCC Part 15B EMC report

Model:

AT1677

REPORT NUMBER:

220301798SHA-001

ISSUE DATE:

July 27, 2022

DOCUMENT CONTROL NUMBER:

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TEST REPORT

Intertek Testing Services Shanghai
Building No.86, 1198 Qinzhou Road (North)
Caohejing Development Zone
Shanghai 200233, China

Telephone: 86 21 6127 8200
www.intertek.com

Report no.: 220301798SHA-001

Applicant: CIXI ZHONGBANG ELECTRIC APPLIANCE CO., LTD.
No. 111, Guanfu South Road, Guanhaiwei Town, Cixi Ningbo Zhejiang
Address of Applicant: 315315

Manufacturer: CIXI ZHONGBANG ELECTRIC APPLIANCE CO., LTD.
No. 111, Guanfu South Road, Guanhaiwei Town, Cixi Ningbo Zhejiang
Address of Manufacturer: 315315

Factory: CIXI ZHONGBANG ELECTRIC APPLIANCE CO., LTD.
Address of Factory: No. 111, Guanfu South Road, Guanhaiwei Town, Cixi Ningbo Zhejiang
315315

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

47CFR Part 15 (2019): Radio Frequency Devices (Subpart B)

ANSI C63.4 (2014): American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

PREPARED BY:

Project Engineer
Damon Ding

REVIEWED BY:

Reviewer
Eric Li

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TEST REPORT**Revision History**

| Report No. | Version | Description | Issued Date |
|------------------|---------|-------------------------|---------------|
| 220301798SHA-001 | Rev. 01 | Initial issue of report | July 27, 2022 |
| | | | |
| | | | |

TEST REPORT**Measurement result summary**

| TEST ITEM | FCC REFERENCE | RESULT |
|-------------------------------|------------------------|--------|
| Power line conducted emission | FCC 47 CFR Part 15.107 | Pass |
| Radiated emission | FCC 47 CFR Part 15.109 | Pass |

TEST REPORT**1 GENERAL INFORMATION****1.1 Description of Equipment Under Test (EUT)**

| | |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Product name: | Fan Heater (Smart Heater) |
| Type/Model: | AT1677 |
| Add. Model No.: (See Note 1) | AT1635, AT1679, AT1632, AT1676, AT1678, AT1366, AT1513, AT1514, AT1520, AT1521, AT1323, AT1481, AT1482, AT1520, AT1521 |
| Trade Mark: | atomi smart,  |
| Description of EUT: | The EUT is fan heater, it supports Wi-Fi function, there are series models. We test AT1677 and list the worst results in this report. |
| Rating: | 120V~, 60Hz, 1500W |
| Category of EUT: | Class B |
| EUT type: | <input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing |
| Highest operating frequency | 2462MHz |
| Software Version: | / |
| Hardware Version: | / |
| Sample received date: | 2022.05.06 |
| Date of test: | 2022.05.16-2022.05.18 |

Note 1: The additional models are identical with the test model AT1677 except the model number for marketing purpose.

TEST REPORT**1.2 Description of Test Facility**

| | |
|------------|-------------------------------------------------------------------------|
| Name: | Intertek Testing Services Shanghai |
| Address: | Building 86, No. 1198 Qinzhou Road (North), Shanghai 200233, P.R. China |
| Telephone: | 86 21 61278200 |
| Telefax: | 86 21 54262353 |

| | |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| The test facility is recognized, certified, or accredited by these organizations: | CNAS Accreditation Lab Registration No. CNAS L0139 |
| | FCC Accredited Lab Designation Number: CN1175 |
| | IC Registration Lab Registration code No.: 2042B-1 |
| | VCCI Registration Lab Registration No.: R-4243, G-845, C-4723, T-2252 |
| | A2LA Accreditation Lab Certificate Number: 3309.02 |

Tests were sub-contracted.

| | |
|------------|-----------------------------------------------------------------------------------------------------------------------|
| Name: | Shenzhen UnionTrust Quality and Technology Co., Ltd. |
| Address: | Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng Science and Technology Park, Longhua District, Shenzhen, China |
| Telephone: | +86 (0) 755 2823 0888 |
| Telefax: | +86 (0) 755 2823 0886 |

| | |
|-----------------------------------------------------------------------------------|------------------------------------------------------|
| The test facility is recognized, certified, or accredited by these organizations: | Shenzhen UnionTrust Quality and Technology Co., Ltd. |
| | CNAS Accreditation Lab |
| | Registration No. CNAS L9069 |

TEST REPORT**2 TEST SPECIFICATIONS****2.1 Standards or specification**

47CFR Part 15 (2019)
ANSI C63.4 (2014)

2.2 Mode of operation during the test

Within this test report, EUT was tested under all available operation modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used. The test mode is as follows:

| Test Item | Test Mode |
|--------------------|---------------------------------------------------------------------------------------------------------|
| Radiated Emission | Test Mode 1: low heat mode + Wi-Fi Link (AC 120V) Test Mode 2: high heat mode + Wi-Fi Link (AC 120V) |
| Conducted emission | Test Mode 1: low heat mode + Wi-Fi Link (AC 120V) Test Mode 2: high heat mode + Wi-Fi Link (AC 120V) |

2.3 Test software list

| Test Items | Software | Manufacturer | Version |
|--------------------|----------|--------------|----------|
| Radiated emission | e3 | Audix | 9.160323 |
| Conducted emission | e3 | Audix | 9.160323 |

TEST REPORT**2.4 Test peripherals list**

| Item No | Description | Band and Model | S/No |
|---------|-----------------|-------------------|------------------|
| 1 | Tablet | HUAWEI; JDN2-W09 | UPK9X20B03003100 |
| 2 | Wireless Router | SAGEMCOM; RAC2V1S | 253703944 |

2.5 Support Cable list

| Item No | Description | Length (m) | Cable Type |
|---------|-------------|------------|------------|
| N/A | N/A | N/A | N/A |

2.6 Test environment condition:

| Test items | Temperature | Humidity |
|-------------------------------|-------------|----------|
| Power line conducted emission | 25.2°C | 50%RH |
| Radiated Emissions | 24.3°C | 51%RH |

TEST REPORT
2.7 Instrument list
Shenzhen UnionTrust Quality and Technology Co., Ltd.

| Conducted Emission | | | | | |
|-------------------------------------|----------------------------------|--------------|------------|--------------|-------------|
| Used | Equipment | Manufacturer | Type | Internal no. | Due date |
| <input checked="" type="checkbox"/> | Test Receiver | R&S | ESR7 | UTTL-E005 | 4-Nov-2022 |
| <input checked="" type="checkbox"/> | A.M.N. | R&S | ESH2-Z5 | UTTL-E003 | 4-Nov-2022 |
| <input checked="" type="checkbox"/> | A.M.N. | ETS-Lindgren | 3816/2SH | UTTL-E004 | 4-Nov-2022 |
| <input checked="" type="checkbox"/> | Shielding room | ETS-Lindgren | 843 | UTTL-E076 | 4-Nov-2024 |
| Radiated Emission | | | | | |
| Used | Equipment | Manufacturer | Type | Internal no. | Due date |
| <input checked="" type="checkbox"/> | Test Receiver | R&S | ESIB 26 | UTTL-E026 | 4-Nov-2022 |
| <input checked="" type="checkbox"/> | Loop antenna | ETS-Lindgren | 6502 | UTTL-E013 | 10-Nov-2023 |
| <input checked="" type="checkbox"/> | Broadband Antenna | ETS-Lindgren | 3142E | UTTL-E014 | 10-Nov-2023 |
| <input checked="" type="checkbox"/> | Pre-amplifier | ETS-Lindgren | 118490 | UTTL-E015 | 5-Nov-2022 |
| <input checked="" type="checkbox"/> | Horn antenna | ETS-Lindgren | 3117 | UTTL-E017 | 10-Nov-2023 |
| <input checked="" type="checkbox"/> | Pre-amplifier | ETS-Lindgren | 118385 | UTTL-E017 | 5-Nov-2022 |
| <input checked="" type="checkbox"/> | Horn antenna | ETS-Lindgren | 3116C | UTTL-E019 | 18-Jun-2022 |
| <input checked="" type="checkbox"/> | Pre-amplifier | ETS-Lindgren | 118384 | UTTL-E019 | 16-Nov-2022 |
| <input checked="" type="checkbox"/> | 6dB Attenuator | Talent | RA6A5-N-18 | UTTL-E056 | 10-Nov-2023 |
| <input checked="" type="checkbox"/> | Multi device Controller | ETS-Lindgren | 7006-001 | ---- | ---- |
| <input checked="" type="checkbox"/> | 3m Chamber & Accessory Equipment | ETS-Lindgren | 3m | UTTL-E010 | 21-Jan-2024 |

TEST REPORT**2.8 Measurement uncertainty**

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Conducted emission 9kHz-150kHz | ±3.2 dB |
| 2 | Conducted emission 150kHz-30MHz | ±2.7 dB |
| 3 | Radiated emission 9kHz-30MHz | ±4.7 dB |
| 4 | Radiated emission 30MHz-1GHz | ±4.6 dB |
| 5 | Radiated emission 1GHz-18GHz | ±4.4 dB |
| 6 | Radiated emission 18GHz-26GHz | ±4.4 dB |
| 7 | Radiated emission 26GHz-40GHz | ±4.6 dB |

Remark: 95% Confidence Levels, k=2.

TEST REPORT**3 Radiated Emissions****Test result:** Pass**3.1 Limit****3.1.1 Limits for radiated disturbance of class A device**

| Frequency (MHz) | Permitted limit in dB μ V/m (Quasi-peak) of Measurement Distance 10m |
|-----------------|--------------------------------------------------------------------------------|
| 30 – 88 | 39 |
| 88 – 216 | 43.5 |
| 216 – 960 | 46.4 |
| Above 960 | 49.5 |

Note: for the measurement distance other than 3m and 10m, the limit is varied according to 20dB/10 decades.

3.1.2 Limits for radiated disturbance of class B device

FCC 47 CFR Part 15 Subpart B

| Frequency (MHz) | Permitted limit in dB μ V/m (Quasi-peak) of Measurement Distance 3m |
|-----------------|-------------------------------------------------------------------------------|
| 30 – 88 | 40.0 |
| 88 – 216 | 43.5 |
| 216 – 960 | 46.0 |
| Above 960 | 54.0 |

Note: for the measurement distance other than 3m and 10m, the limit is varied according to 20dB/10 decades.

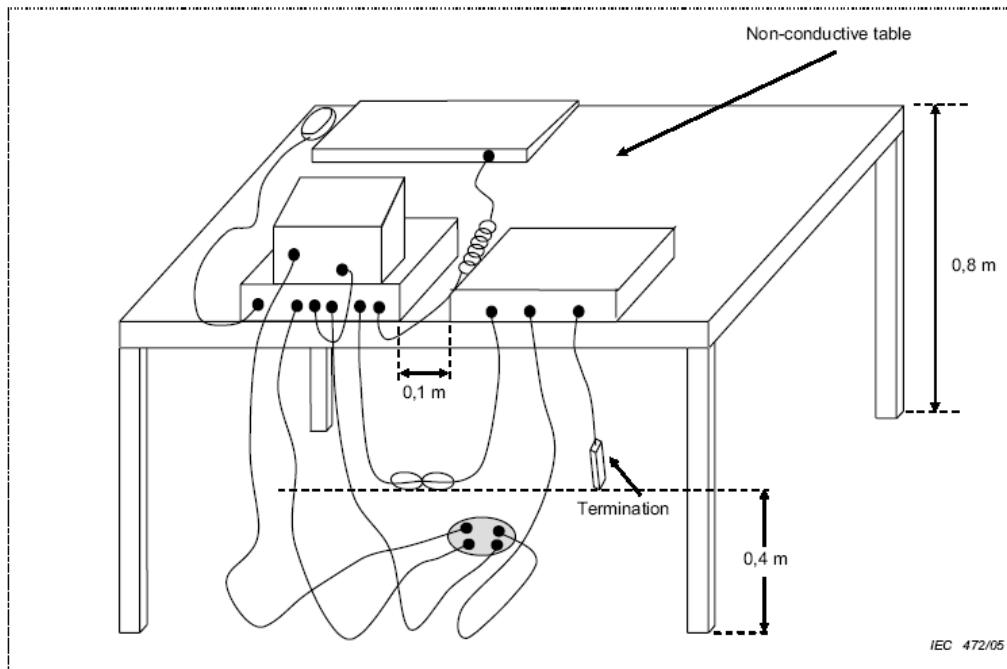
ICES-003 Issue 7

| Frequency (MHz) | Permitted limit in dB μ V/m (Quasi-peak) of Measurement Distance 3m |
|-----------------|-------------------------------------------------------------------------------|
| 30 ~ 88 | 40.0 |
| 88 ~ 216 | 43.5 |
| 216 ~ 230 | 46.0 |
| 230 ~ 960 | 47.0 |
| 960 ~ 1000 | 54.0 |
| Above 1000 | 54.0 |

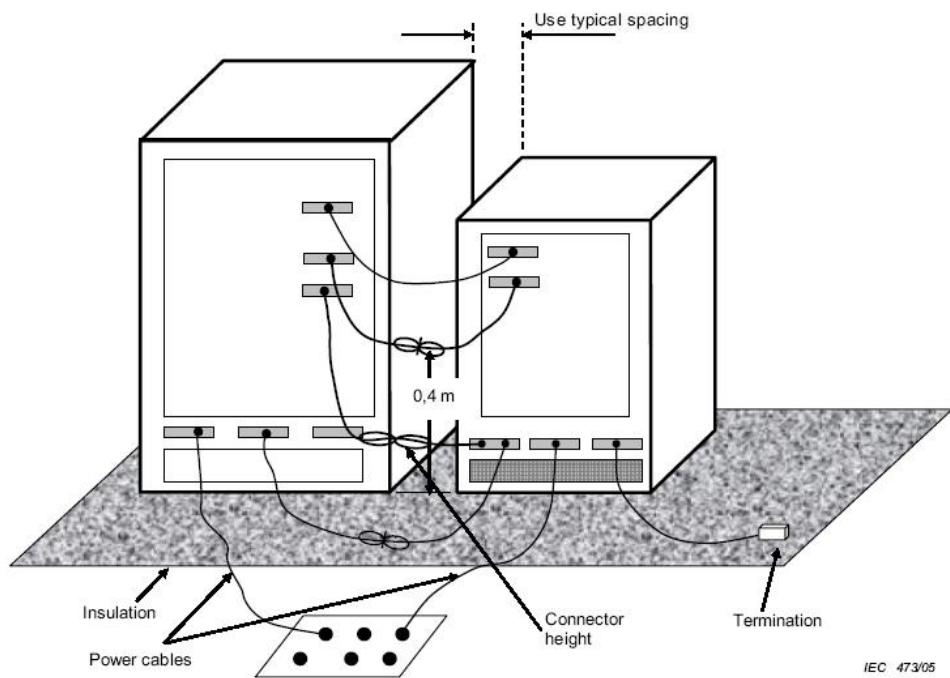
Note: for the measurement distance other than 3m and 10m, the limit is varied according to 20dB/10 decades.

TEST REPORT**3.2 Block diagram and test set up**

For table top equipment



For floor standing equipment



TEST REPORT**3.3 Measurement Procedure**

The measurement was performed in a semi-anechoic chamber. While testing for spurious emission higher than 1GHz, the pre-amplifier (and high pass filter if necessary) is equipped just at the output terminal of the antenna.

The distance from EUT to receiving antenna is **3** meters.

Measurement was performed according to clause 4 and clause 5 of ANSI 63.4.

Test procedure was according to clause 8.3 of ANSI 63.4.

EUT arrangement and operate condition were according to clause 6 and clause 8 of ANSI 63.4.

The radiated emission was measured using the test receiver with the resolutions bandwidth set as:

RBW = 100kHz, VBW = 300kHz (30MHz~1GHz)

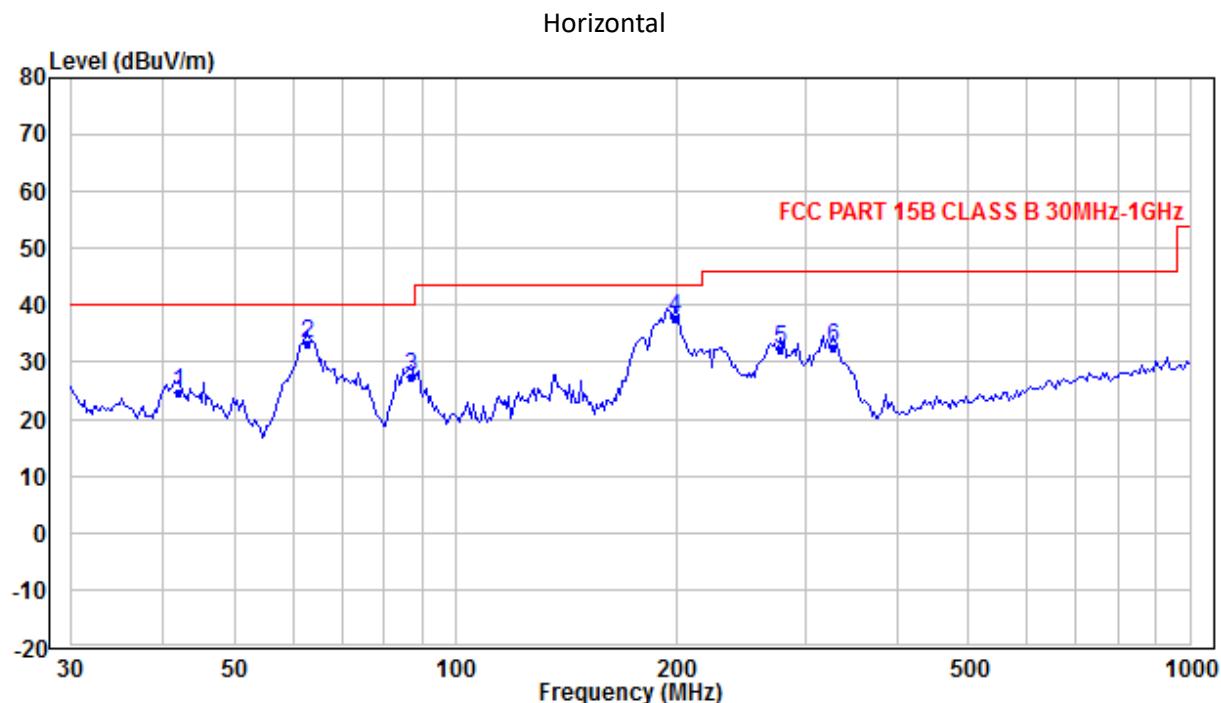
RBW = 1MHz, VBW = 3MHz (>1GHz for PK)

TEST REPORT**3.4 Test Results of Radiated Emissions**

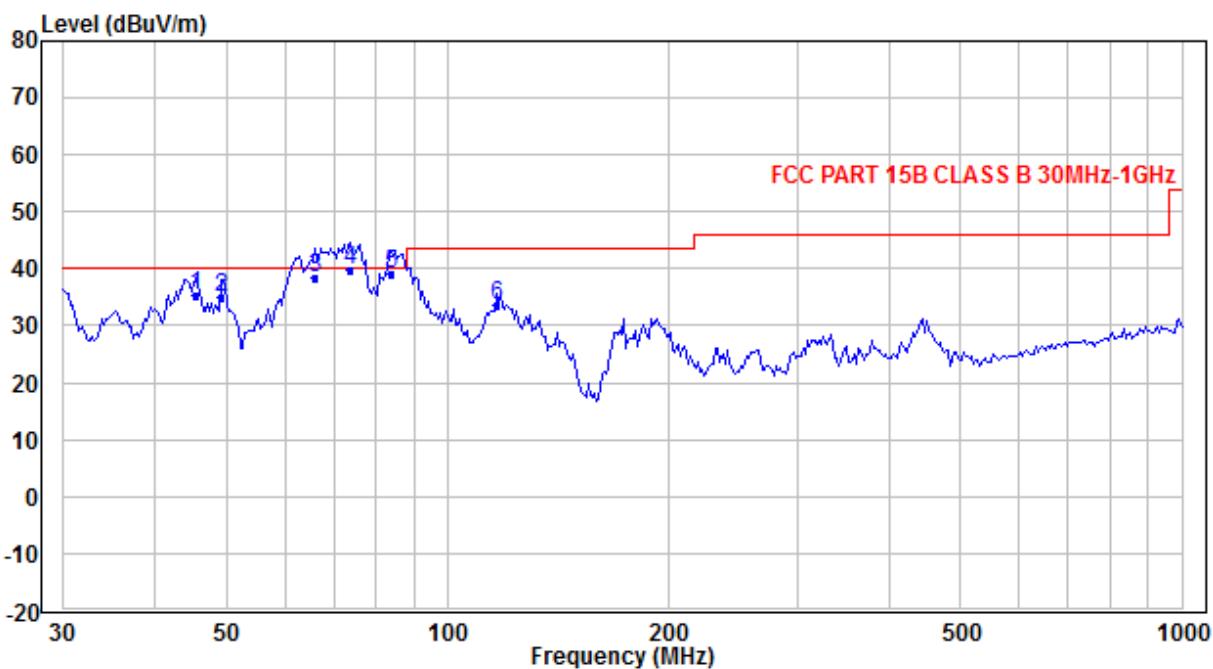
The measurement data for FCC 47 CFR Part 15 Subpart B as follows:

RE Below 1GHz:

Worse test mode: Test Mode 2



Vertical



TEST REPORT
Test data 30MHz~1GHz:

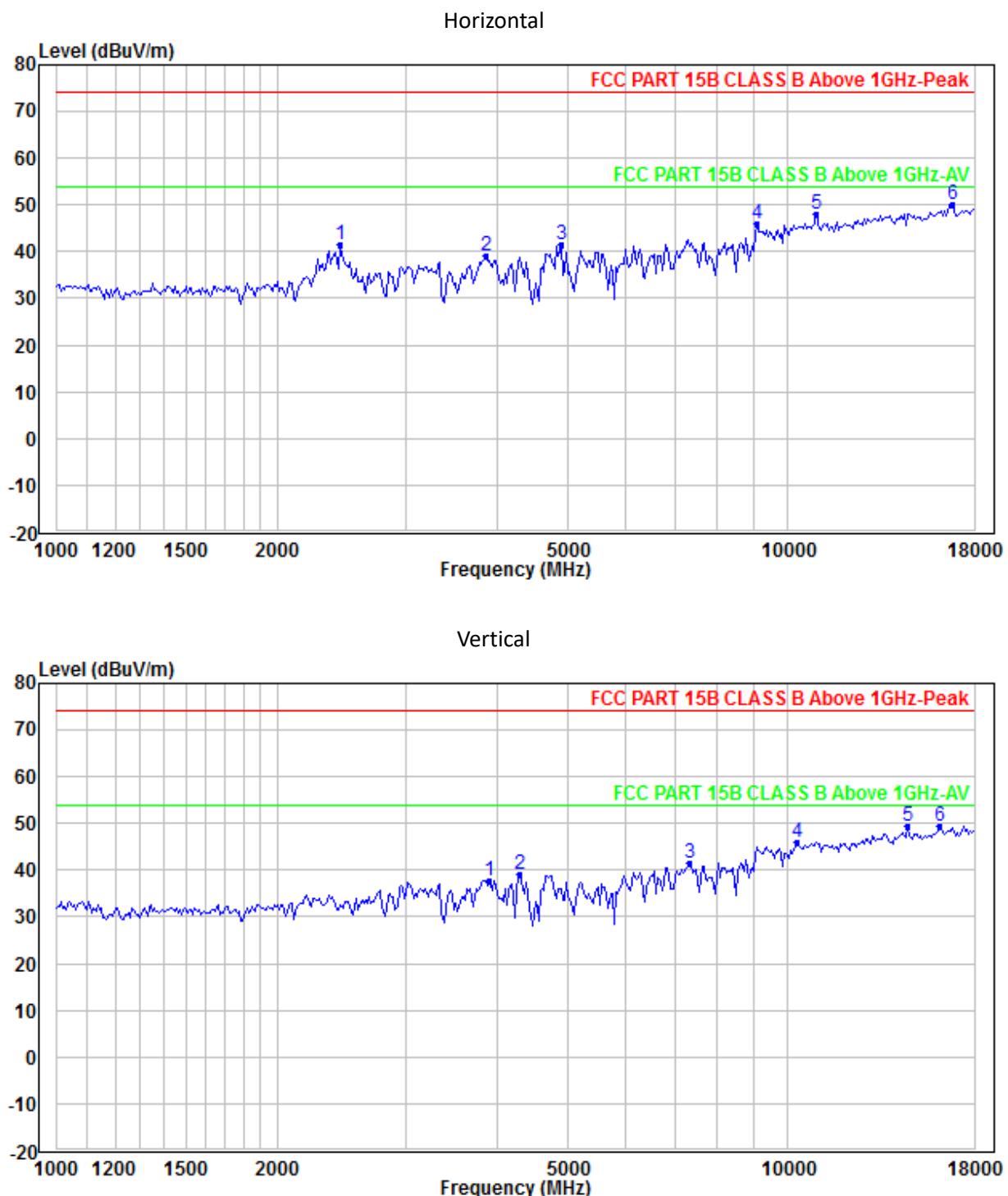
| Polarization | Frequency (MHz) | Measured level (dB μ V/m) | Factor (dB/m) | Limits (dB μ V/m) | Margin (dB) | Detector |
|--------------|-----------------|-------------------------------|---------------|-----------------------|-------------|----------|
| H | 42.035 | 24.79 | -9.15 | 40.00 | 15.21 | QP |
| | 62.743 | 33.19 | -17.27 | 40.00 | 6.81 | QP |
| | 86.687 | 27.45 | -16.52 | 40.00 | 12.55 | QP |
| | 198.642 | 37.64 | -10.48 | 43.50 | 5.86 | QP |
| | 276.382 | 32.26 | -7.63 | 46.00 | 13.74 | QP |
| | 327.155 | 32.58 | -5.74 | 46.00 | 13.42 | QP |
| V | 45.413 | 35.43 | -11.51 | 40.00 | 4.57 | QP |
| | 49.063 | 35.03 | -14.02 | 40.00 | 4.97 | QP |
| | 65.907 | 38.54 | -17.15 | 40.00 | 1.46 | QP |
| | 73.750 | 39.72 | -17.48 | 40.00 | 0.28 | QP |
| | 83.694 | 39.07 | -16.92 | 40.00 | 0.93 | QP |
| | 116.448 | 33.56 | -15.87 | 43.50 | 9.94 | QP |

Remark:

1. Factor= Antenna Factor + Cable Loss (-Amplifier, is employed)
2. Measured level= Original Receiver Reading + Factor
3. Margin = Limit – Measured level
4. The limit of ICES-003 in the 230MHz to 960MHz band is higher than that of FCC Part 15B, so the radiation emission test data conform to the limit of ICES-003.
5. All possible modes of operation were investigated, only the worst-case emissions reported.

TEST REPORT

RE Above 1GHz:

Worse test mode: Test Mode 1

TEST REPORT
Test data Above 1GHz:

| Polarization | Frequency (MHz) | Measured level (dB μ V/m) | Factor (dB/m) | Limits (dB μ V/m) | Margin (dB) | Detector |
|--------------|-----------------|-------------------------------|---------------|-----------------------|-------------|----------|
| H | 2440.050 | 41.50 | -8.26 | 74.00 | 32.50 | Peak |
| | 3855.931 | 39.07 | -3.61 | 74.00 | 34.93 | Peak |
| | 4889.539 | 41.54 | -2.29 | 74.00 | 32.46 | Peak |
| | 9087.293 | 46.00 | 5.09 | 74.00 | 28.00 | Peak |
| | 10937.880 | 48.02 | 7.29 | 74.00 | 25.98 | Peak |
| | 16791.350 | 50.12 | 12.61 | 74.00 | 23.88 | Peak |
| V | 3900.860 | 37.85 | -3.45 | 74.00 | 36.15 | Peak |
| | 4304.524 | 39.20 | -2.66 | 74.00 | 34.80 | Peak |
| | 7334.292 | 41.54 | 1.63 | 74.00 | 32.46 | Peak |
| | 10322.320 | 46.12 | 6.21 | 74.00 | 27.88 | Peak |
| | 14612.070 | 49.32 | 11.94 | 74.00 | 24.68 | Peak |
| | 16124.140 | 49.50 | 11.97 | 74.00 | 24.50 | Peak |

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Limit – Measured level
4. All possible modes of operation were investigated, only the worst-case emissions reported.
5. For Radiated Emission above 18GHz, there was not any unwanted emission detected.
6. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

TEST REPORT**4 Power line conducted emission****Test result:** **PASS****4.1 Limit****4.1.1 Limits for conducted disturbance voltage at the mains ports of class A device**

| Frequency range (MHz) | Limits dB(µV) | |
|----------------------------------|----------------------|----------------|
| | Quasi-peak | Average |
| 0.15 ~ 0.5 | 79 | 66 |
| 0.5 ~ 30 | 73 | 60 |

Note: If the limit for the measurement with the average detector is met when using a receiver with a quasi-peak detector, the equipment under test shall be deemed to meet both limits and the measurement using the receiver with an average detector need not be carried out.

4.1.2 Limits for conducted disturbance voltage at the mains ports of class B device

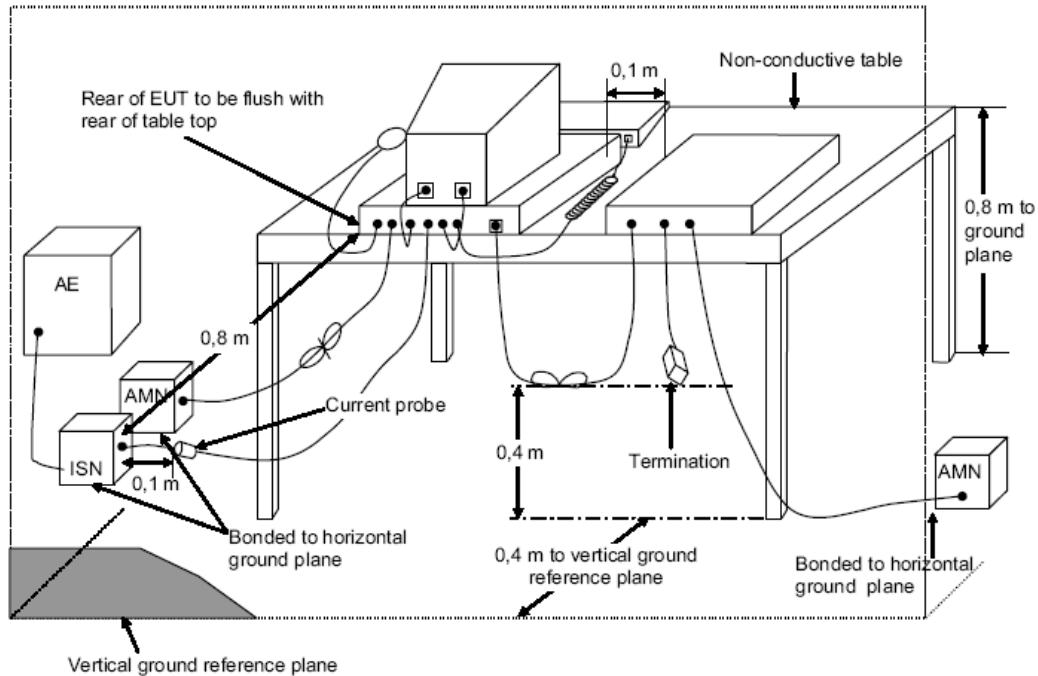
| Frequency range (MHz) | Limits dB(µV) | |
|----------------------------------|----------------------|----------------|
| | Quasi-peak | Average |
| 0.15 ~ 0.5 | 66 ~ 56 * | 56 ~ 46 * |
| 0.5 ~ 5 | 56 | 46 |
| 5 ~ 30 | 60 | 50 |

Note: 1. * Means the limit decreasing linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz
2. If the limit for the measurement with the average detector is met when using a receiver with a quasi-peak detector, the equipment under test shall be deemed to meet both limits and the measurement using the receiver with an average detector need not be carried out.

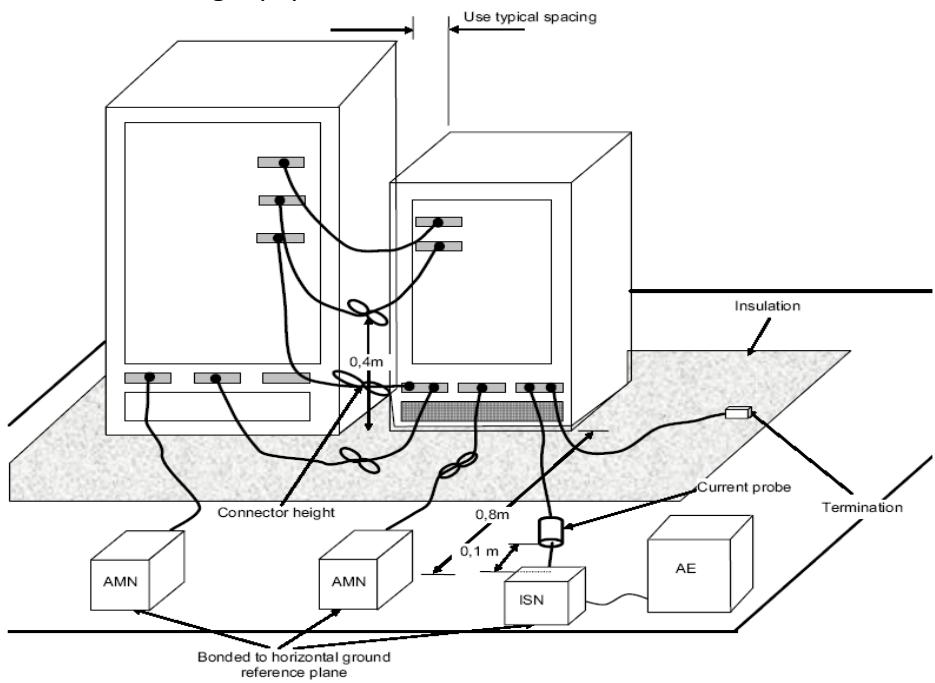
TEST REPORT

4.2 Block diagram and test set up

For table top equipment



For floor standing equipment

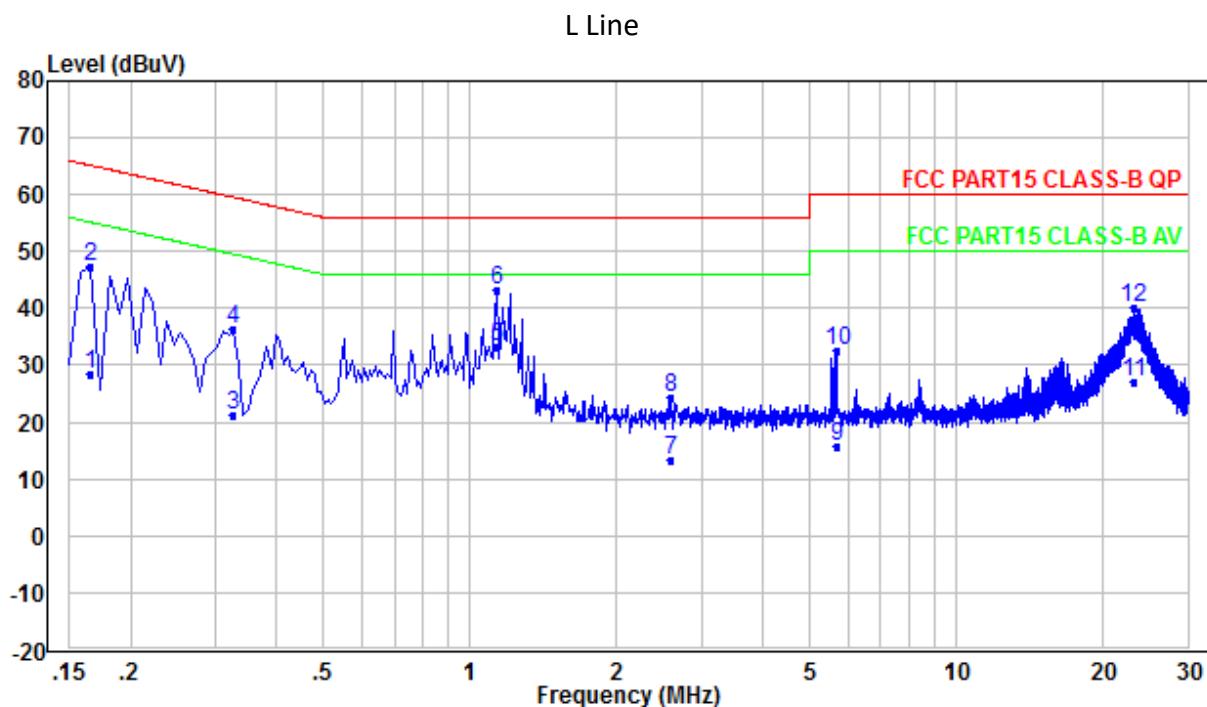


TEST REPORT**4.3 Measurement Procedure**

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

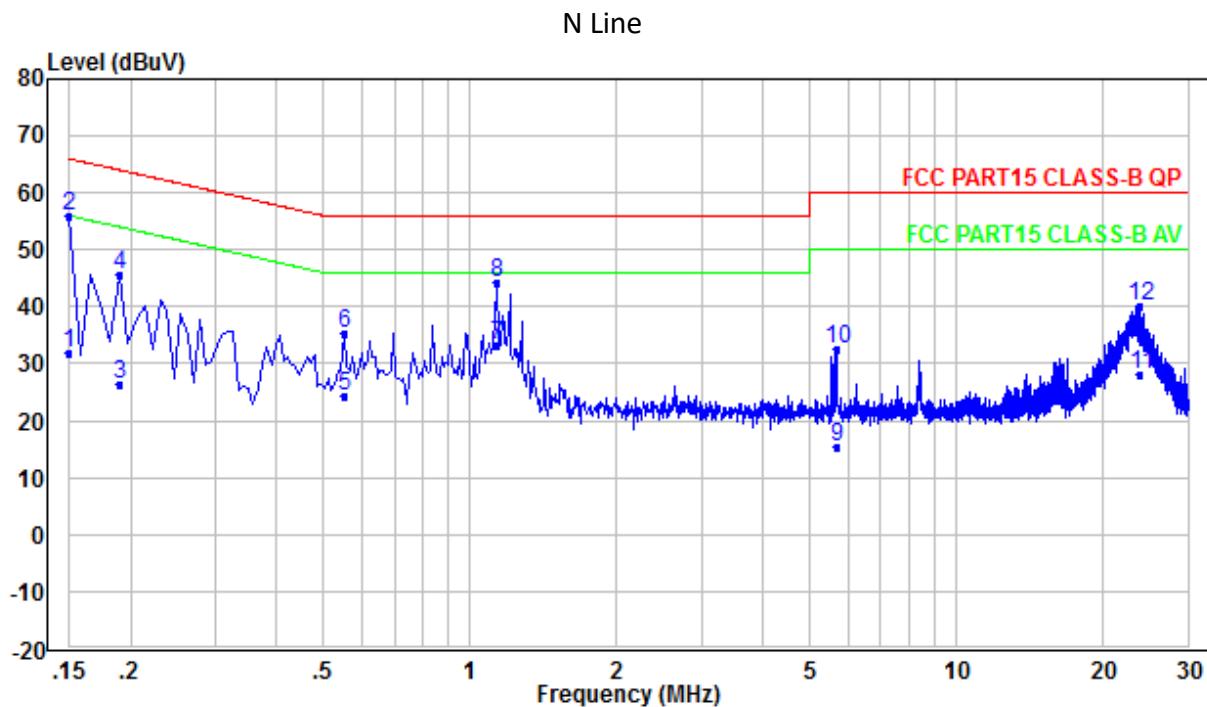
The bandwidth of the test receiver is set at 9 kHz.

TEST REPORT
4.4 Test Results of Power line conducted emission
Worse Mode: Test Mode 1
Test Curve:

Test Data:

| Frequency (MHz) | Quasi-peak | | | Average | | |
|--------------------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|
| | level dB(μV) | Limit dB(μV) | Margin (dB) | level dB(μV) | limit dB(μV) | Margin (dB) |
| 0.166 | 47.37 | 65.16 | 17.79 | 28.37 | 55.16 | 26.79 |
| 0.326 | 36.31 | 59.55 | 23.24 | 21.31 | 49.55 | 28.24 |
| 1.134 | 43.23 | 56.00 | 12.77 | 33.23 | 46.00 | 12.77 |
| 2.590 | 24.45 | 56.00 | 31.55 | 13.45 | 46.00 | 32.55 |
| 5.669 | 32.61 | 60.00 | 27.39 | 15.61 | 50.00 | 34.39 |
| 23.145 | 40.08 | 60.00 | 19.92 | 27.08 | 50.00 | 22.92 |

TEST REPORT

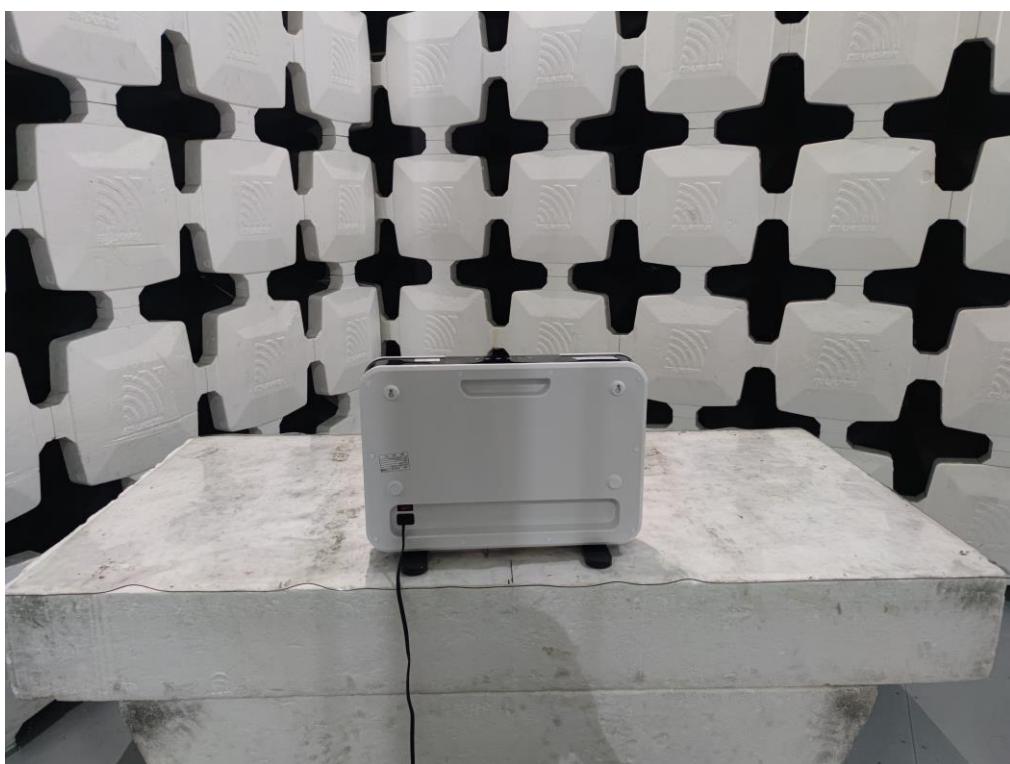
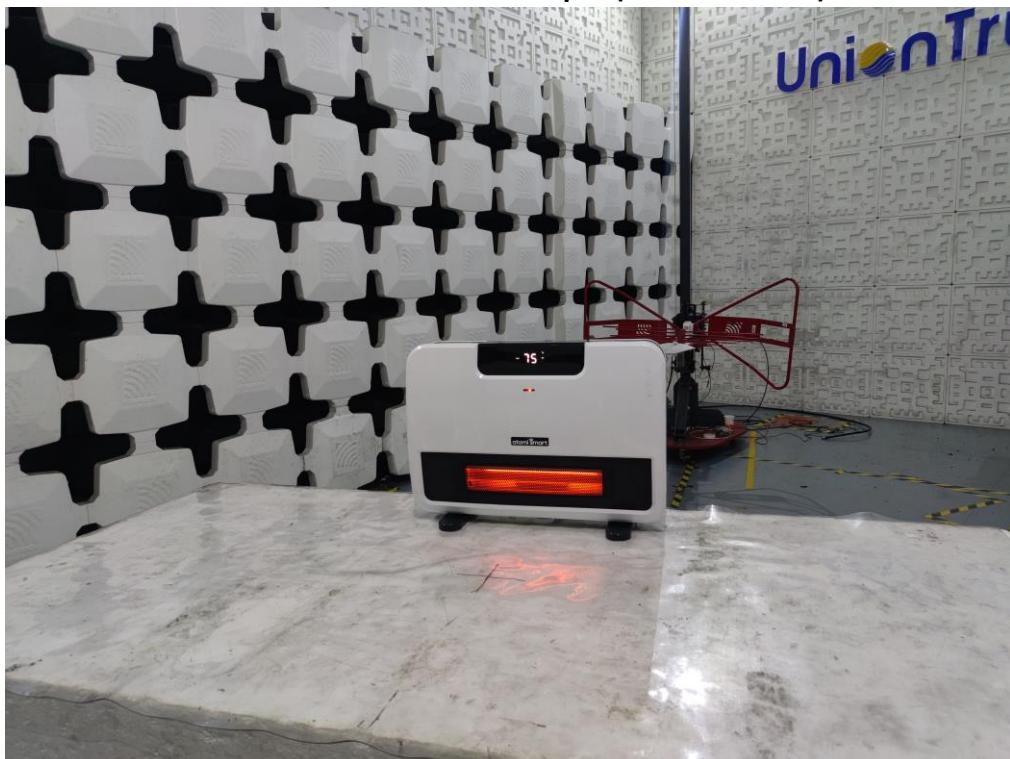
Test Curve:

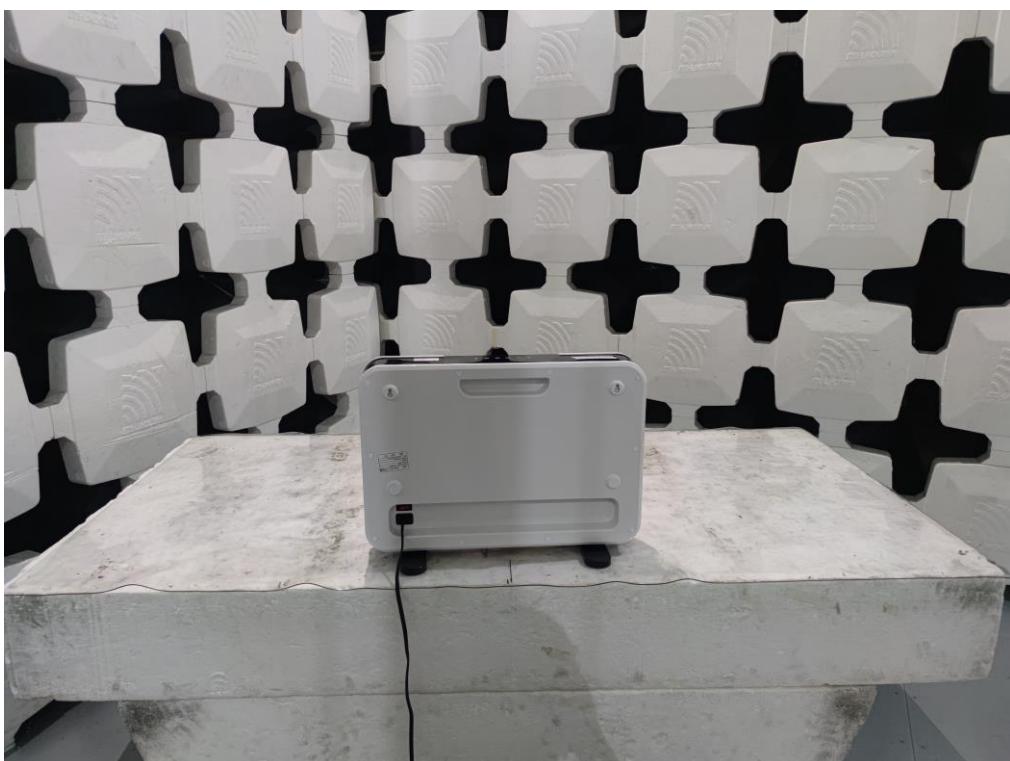


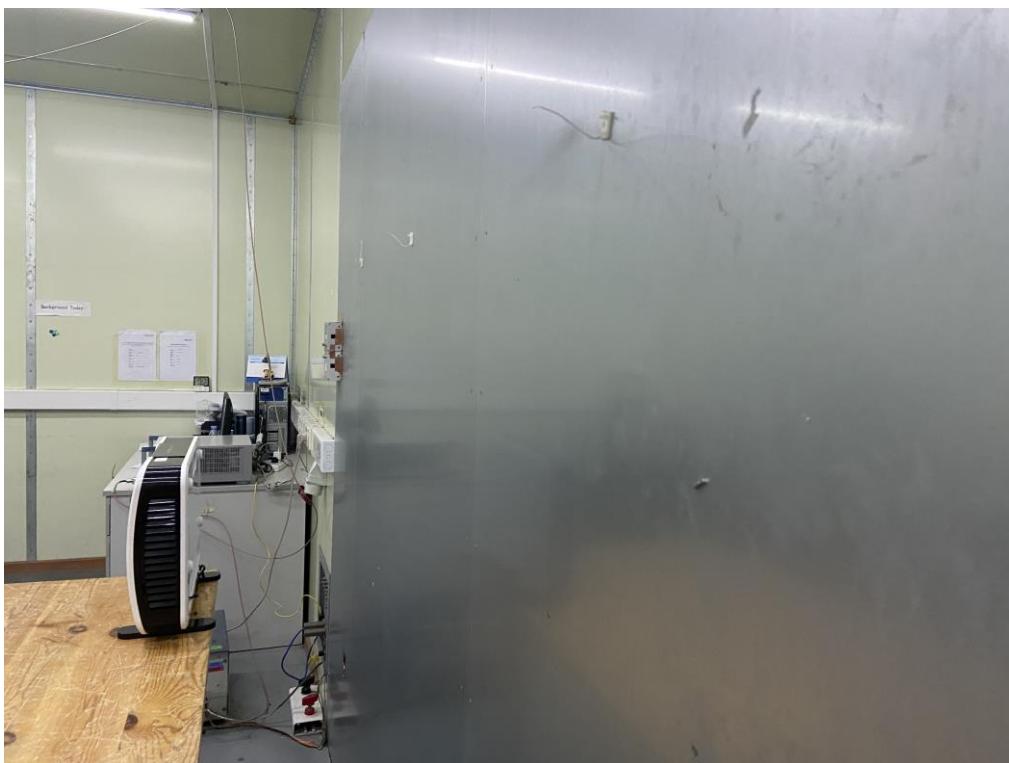
Test Data:

| Frequency (MHz) | Quasi-peak | | | Average | | |
|-----------------|--------------|--------------|-------------|--------------|--------------|-------------|
| | level dB(μV) | Limit dB(μV) | Margin (dB) | level dB(μV) | limit dB(μV) | Margin (dB) |
| 0.150 | 56.04 | 66.00 | 9.96 | 32.04 | 56.00 | 23.96 |
| 0.190 | 45.48 | 64.04 | 18.56 | 26.48 | 54.04 | 27.56 |
| 0.550 | 35.22 | 56.00 | 20.78 | 24.22 | 46.00 | 21.78 |
| 1.134 | 44.25 | 56.00 | 11.75 | 33.25 | 46.00 | 12.75 |
| 5.669 | 32.51 | 60.00 | 27.49 | 15.51 | 50.00 | 34.49 |
| 23.993 | 40.02 | 60.00 | 19.98 | 28.02 | 50.00 | 21.98 |

Remark: 1. Correct Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.
 2. Corrected Reading = Original Receiver Reading + Correct Factor
 3. Margin = Limit - Corrected Reading
 4. All possible modes of operation were investigated, only the worst-case emissions reported.

TEST REPORT**Appendix I: Photograph of test setup****Radiated emission Test Setup-1 (30 MHz~1 GHz)**

TEST REPORT**Radiated emission Test Setup-2 (Above 1 GHz)**

TEST REPORT**Conducted Emission Test Setup3**

TEST REPORT**Appendix II: Photograph of equipment under test**

Refer to Appendix 2 for EUT external and internal photos.

***** END *****