

Ecovacs Home Service Robotics Co., Ltd.

EMC TEST REPORT

Report Type:

FCC Part 15B & ICES-003 EMC report

Model:

DEX86

REPORT NUMBER:

2308A1232SHA-001

ISSUE DATE:

October 13, 2023

DOCUMENT CONTROL NUMBER:

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FCC ID: 2A64B-DEX86

IC: 28593-DEX86

SUMMARY:

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

47CFR Part 15 (2021): 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

ICES-003 Issue 7 October 2020: Information Technology Equipment (Including Digital Apparatus) —Limits and Methods of Measurement.

PREPARED BY:

REVIEWED BY:



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Reviewer
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TEST REPORT

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Revision History

| Report No. | Version | Description | Issued Date |
|------------------|---------|---|------------------|
| 230302476SHA-005 | Rev. 01 | Initial issue of report | June 6, 2023 |
| 2308A1232SHA-001 | Rev. 01 | This report is based on the original report 230302476SHA-005 for amendment include the follow changes or/and additions: 1, added an alternative main PWB with heat dissipation copper sheet 2, Added an alternative construction that cancel pressure sensor PWB. There is no change for RF part, after the evaluation, we test the conducted emission and radiated emission below 1GHz. | October 13, 2023 |
| | | | |

Measurement result summary

| TEST ITEM | FCC REFERENCE | IC REFERENCE | RESULT |
|-------------------------------|---------------|--------------|--------|
| Power line conducted emission | 15.107 | 3.2.1 | Pass |
| Radiated emission | 15.109 | 3.2.2 | Pass |

Notes: 1: NA =Not Applicable

2: "*" means this test is no need and not performed within this report, and the result can refer to the related base report(s).

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

| | |
|-----------------------------|---|
| Product name: | Floor Cleaning Robot |
| Type/Model: | DEX86 |
| Description of EUT: | The EUT is a Floor Cleaning Robot, it supports WIFI and Bluetooth functions, there is only one model. we test them and list the worst results in this report. |
| Rating: | 20V DC 2.0A |
| Category of EUT: | Class B |
| EUT type: | <input type="checkbox"/> Table top <input checked="" type="checkbox"/> Floor standing |
| Highest operating frequency | < 2480MHz |
| Software Version: | / |
| Hardware Version: | / |
| Sample Identification No.: | 0230505-03-002 |
| Sample received date: | 2023.09.15 |
| Date of test: | 2023.09.18-2023.09.23 |

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: CN0175 |
| | IC Registration Lab CAB identifier.: CN0014 |
| | VCCI Registration Lab Member No: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252) |
| | A2LA Accreditation Lab Certificate Number: 3309.02 |

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2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2021)
 ANSI C63.10 (2014)
 ICES-003 Issue 7 October 2020


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.

2.3 Test software list

| Test Items | Software | Manufacturer | Version |
|--------------------|----------|--------------|---------|
| Conducted emission | ESxS-K1 | R&S | V2.1.0 |
| Radiated emission | ES-K1 | R&S | V1.71 |

2.4 Test peripherals list

| Item No. | Name | Brand and Model | Description |
|----------|-----------------|--|-------------|
| 1 | Docking Station |  CH2229 | - |
| | | | |

2.5 Test environment condition:

| Test items | Temperature | Humidity |
|-------------------------------|-------------|----------|
| Power line conducted emission | 24°C | 54% RH |
| Radiated Emissions | 25°C | 53% RH |

2.6 Instrument list

| Conducted Emission | | | | | |
|-------------------------------------|------------------------|-------------------|------------------------|--------------|------------|
| Used | Equipment | Manufacturer | Type | Internal no. | Due date |
| <input checked="" type="checkbox"/> | Test Receiver | R&S | ESCS 30 | EC 2107 | 2024-07-09 |
| <input checked="" type="checkbox"/> | A.M.N. | R&S | ESH2-Z5 | EC 3119 | 2023-11-09 |
| <input type="checkbox"/> | A.M.N. | R&S | ENV 216 | EC 3393 | 2024-07-09 |
| <input type="checkbox"/> | A.M.N. | R&S | ENV4200 | EC 3558 | 2024-06-09 |
| Radiated Emission | | | | | |
| Used | Equipment | Manufacturer | Type | Internal no. | Due date |
| <input checked="" type="checkbox"/> | Test Receiver | R&S | ESIB 26 | EC 3045 | 2023-10-19 |
| <input checked="" type="checkbox"/> | Bilog Antenna | TESEQ | CBL 6112D | EC 4206 | 2024-08-06 |
| <input checked="" type="checkbox"/> | Pre-amplifier | R&S | AFS42-00101800-25-S-42 | EC5262 | 2024-06-09 |
| <input checked="" type="checkbox"/> | Horn antenna | ETS | 3117 | EC 4792-1 | 2024-03-26 |
| <input checked="" type="checkbox"/> | Horn antenna | TOYO | HAP18-26W | EC 4792-3 | 2024-07-08 |
| <input type="checkbox"/> | Active loop antenna | Schwarzbeck | FMZB1519 | EC 5345 | 2024-04-23 |
| Tet Site | | | | | |
| Used | Equipment | Manufacturer | Type | Internal no. | Due date |
| <input checked="" type="checkbox"/> | Shielded room | Zhongyu | - | EC 2838 | 2024-01-24 |
| <input type="checkbox"/> | Shielded room | Zhongyu | - | EC 2839 | 2024-01-24 |
| <input checked="" type="checkbox"/> | Semi-anechoic chamber | Albatross project | - | EC 3048 | 2024-08-22 |
| <input checked="" type="checkbox"/> | Fully-anechoic chamber | Albatross project | - | EC 3047 | 2024-08-22 |
| Additional instrument | | | | | |
| Used | Equipment | Manufacturer | Type | Internal no. | Due date |
| <input checked="" type="checkbox"/> | Therom-Hygrograph | ZJ1-2A | S.M.I.F. | EC 3783 | 2024-03-23 |
| <input type="checkbox"/> | Therom-Hygrograph | ZJ1-2A | S.M.I.F. | EC 5844 | 2024-03-08 |
| <input checked="" type="checkbox"/> | Therom-Hygrograph | ZJ1-2A | S.M.I.F. | EC 3442 | 2024-01-04 |
| <input checked="" type="checkbox"/> | Therom-Hygrograph | ZJ1-2A | S.M.I.F. | EC 5198 | 2024-03-08 |
| <input type="checkbox"/> | Pressure meter | YM3 | Shanghai Mengde | EC 3320 | 2024-07-22 |

TEST REPORT**2.7 Measurement uncertainty**

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| Test item | Measurement uncertainty |
|---|--------------------------------|
| Radiated Emissions in restricted frequency bands below 1GHz | $\pm 4.90\text{dB}$ |
| Radiated Emissions in restricted frequency bands above 1GHz | $\pm 5.02\text{dB}$ |
| Power line conducted emission | $\pm 3.19\text{dB}$ |

3 Radiated Emissions

Test result: Pass

3.1 Limit

3.1.1 Limits for radiated disturbance of class A device

FCC

| 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.

IC

| Frequency (MHz) | Permitted limit in dB μ V/m (Quasi-peak) of Measurement Distance 10m | Permitted limit in dB μ V/m (Quasi-peak) of Measurement Distance 3m |
|-----------------|--|---|
| 30 ~ 88 | 40.0 | 50.0 |
| 88 ~ 216 | 43.5 | 54.0 |
| 216 ~ 230 | 46.4 | 56.9 |
| 230 ~ 960 | 47.0 | 57.0 |
| 960 ~ 1000 | 49.5 | 60.0 |

Note: The more stringent limit applies at transition frequencies.

| Frequency (GHz) | Permitted limit in dB μ V/m (Peak) of Measurement Distance 3m | Permitted limit in dB μ V/m (Average) of Measurement Distance 3m |
|--------------------|---|--|
| 1 ~ F _M | 80.0 | 60.0 |

Note: These limit levels apply for a measurement distance of 3 m. If using a different measurement distance, the measured levels shall be extrapolated to the 3 m limit distance using a factor of 20 dB per decade of distance. The measurement distance shall place the measurement antenna in the far field of the ITE or digital apparatus under test.

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3.1.2 Limits for radiated disturbance of class B device

FCC

| 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.

IC

| Frequency (MHz) | Permitted limit in dB μ V/m (Quasi-peak) of Measurement Distance 10m | Permitted limit in dB μ V/m (Quasi-peak) of Measurement Distance 3m |
|-----------------|--|---|
| 30 ~ 88 | 30.0 | 40.0 |
| 88 ~ 216 | 33.1 | 43.5 |
| 216 ~ 230 | 35.6 | 46.0 |
| 230 ~ 960 | 37.0 | 47.0 |
| 960 ~ 1000 | 43.5 | 54.0 |

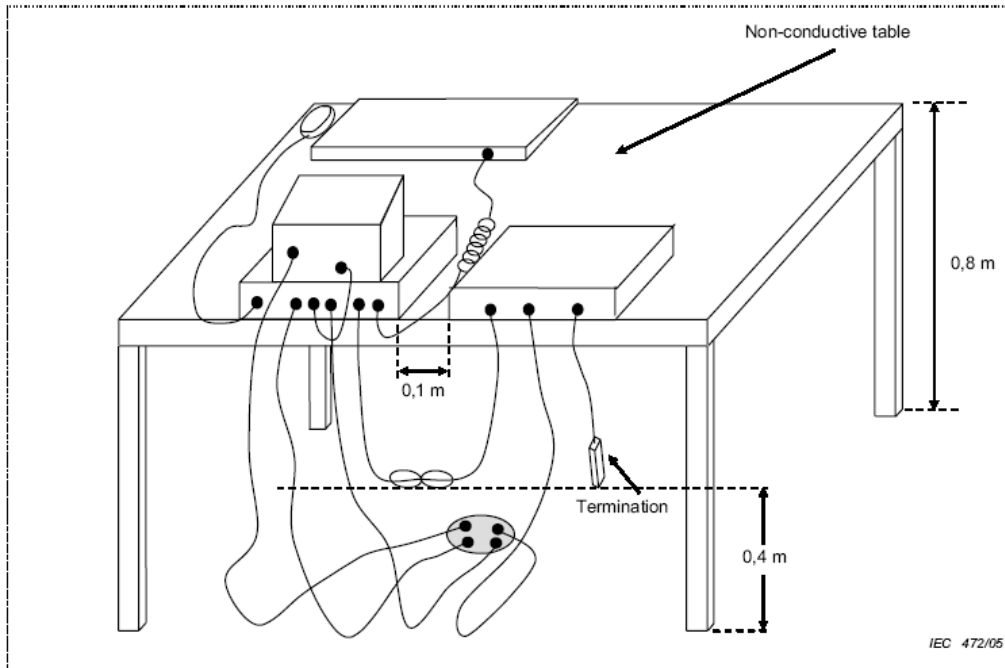
Note: The more stringent limit applies at transition frequencies.

| Frequency (GHz) | Permitted limit in dB μ V/m (Peak) of Measurement Distance 3m | Permitted limit in dB μ V/m (Average) of Measurement Distance 3m |
|--------------------|---|--|
| 1 ~ F _M | 74.0 | 54.0 |

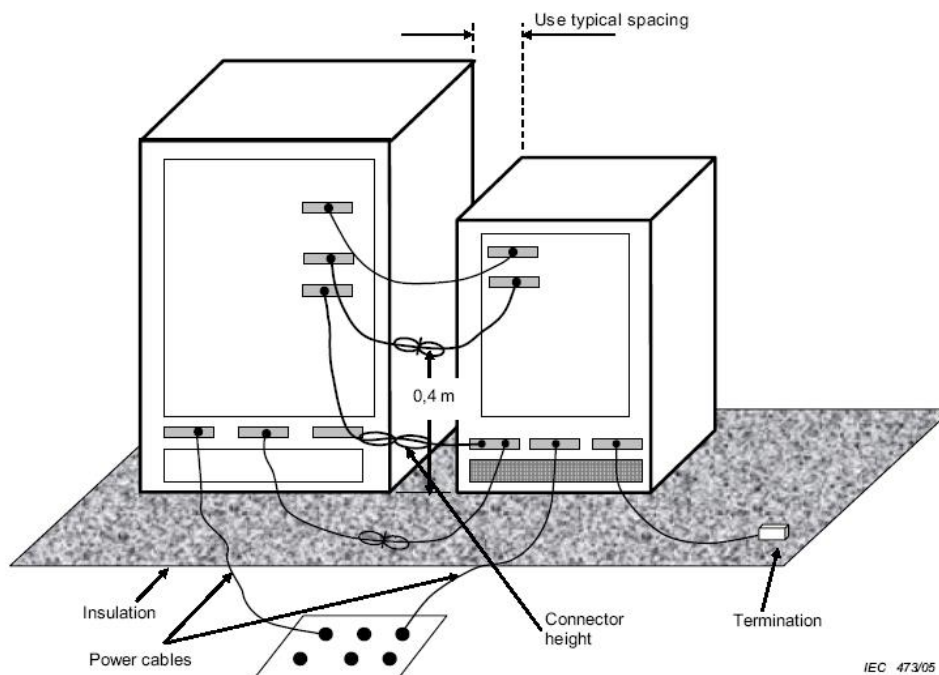
Note: These limit levels apply for a measurement distance of 3 m. If using a different measurement distance, the measured levels shall be extrapolated to the 3 m limit distance using a factor of 20 dB per decade of distance. The measurement distance shall place the measurement antenna in the far field of the ITE or digital apparatus under test.

3.2 Block diagram and test set up

For table top equipment



For floor standing equipment



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)

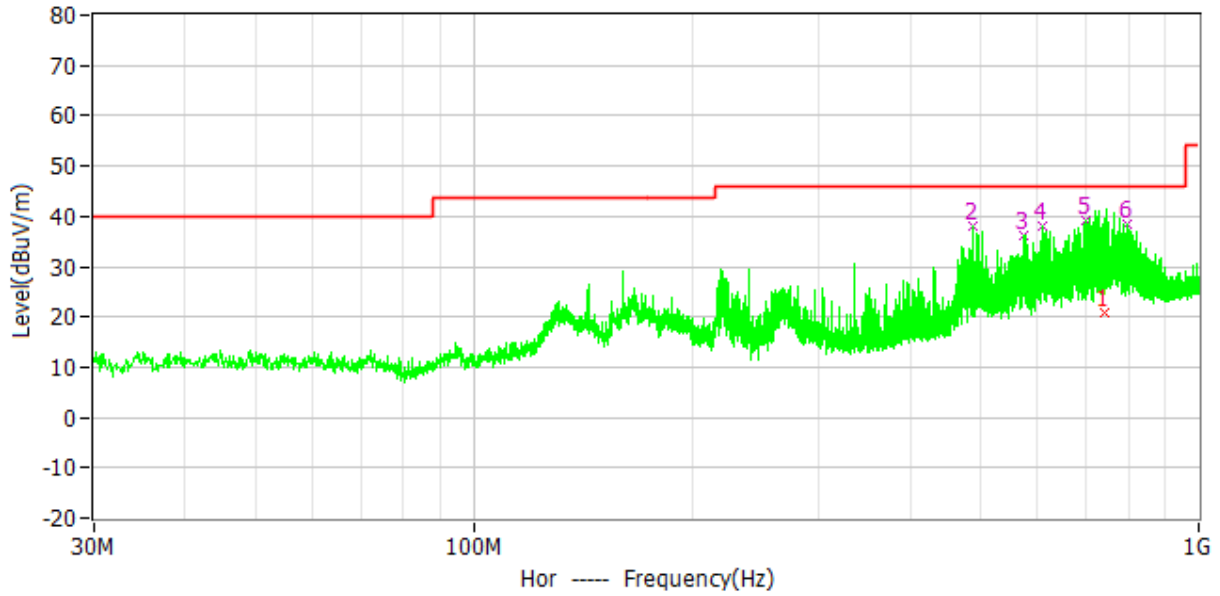
| Highest internal frequency (F _x) | Highest measured frequency F _M for radiated measurement | Measured Bandwidth |
|--|--|--------------------|
| F _x ≤ 108 MHz | 1 GHz | 120kHz |
| 108 MHz < F _x ≤ 500 MHz | 2 GHz | 1MHz |
| 500 MHz < F _x ≤ 1 GHz | 5 GHz | 1MHz |
| F _x > 1 GHz | 5 × F _x up to a maximum of 40 GHz | 1MHz |
| Note: 1. F _x is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test. | | |

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3.4 Test Results of Radiated Emissions

Test Curve of worst results with CH2229:

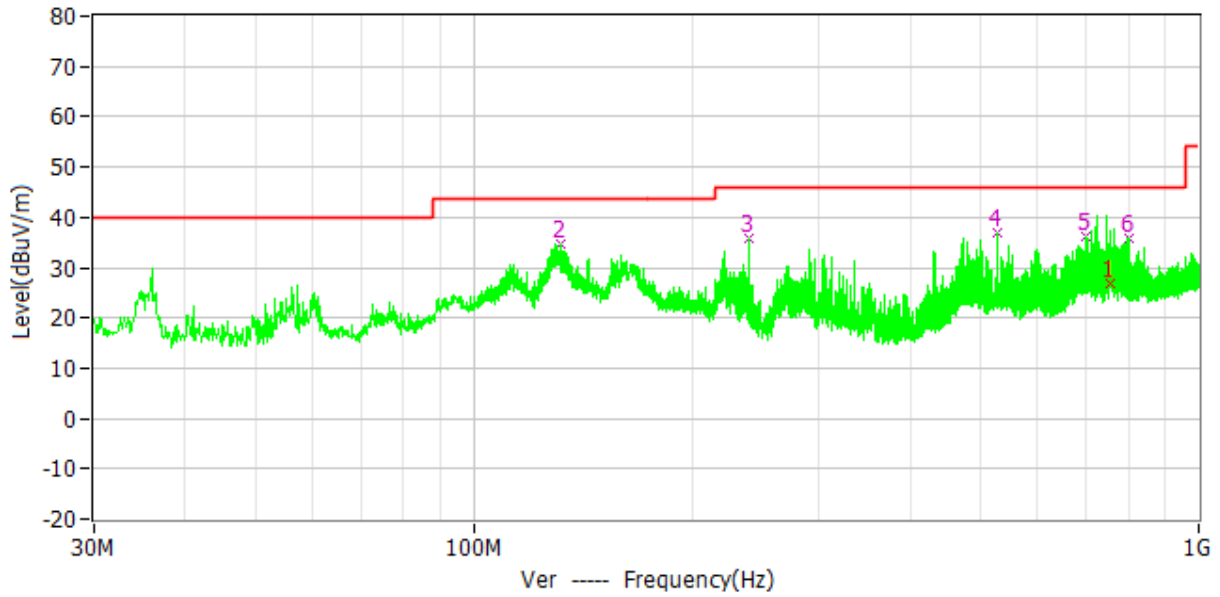
Horizontal



| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|------------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1 | 744.000MHz | 46.0 | 20.9 | -25.1 | -3.2 | 24.1 | QP | Hor |
| 2* | 488.325MHz | 46.0 | 38.2 | -7.8 | 18.6 | 19.6 | PK | Hor |
| 3* | 573.297MHz | 46.0 | 36.1 | -9.9 | 14.6 | 21.5 | PK | Hor |
| 4* | 610.254MHz | 46.0 | 38.2 | -7.8 | 15.9 | 22.3 | PK | Hor |
| 5* | 700.367MHz | 46.0 | 39.1 | -6.9 | 15.5 | 23.6 | PK | Hor |
| 6* | 794.748MHz | 46.0 | 38.4 | -7.6 | 13.6 | 24.8 | PK | Hor |

TEST REPORT

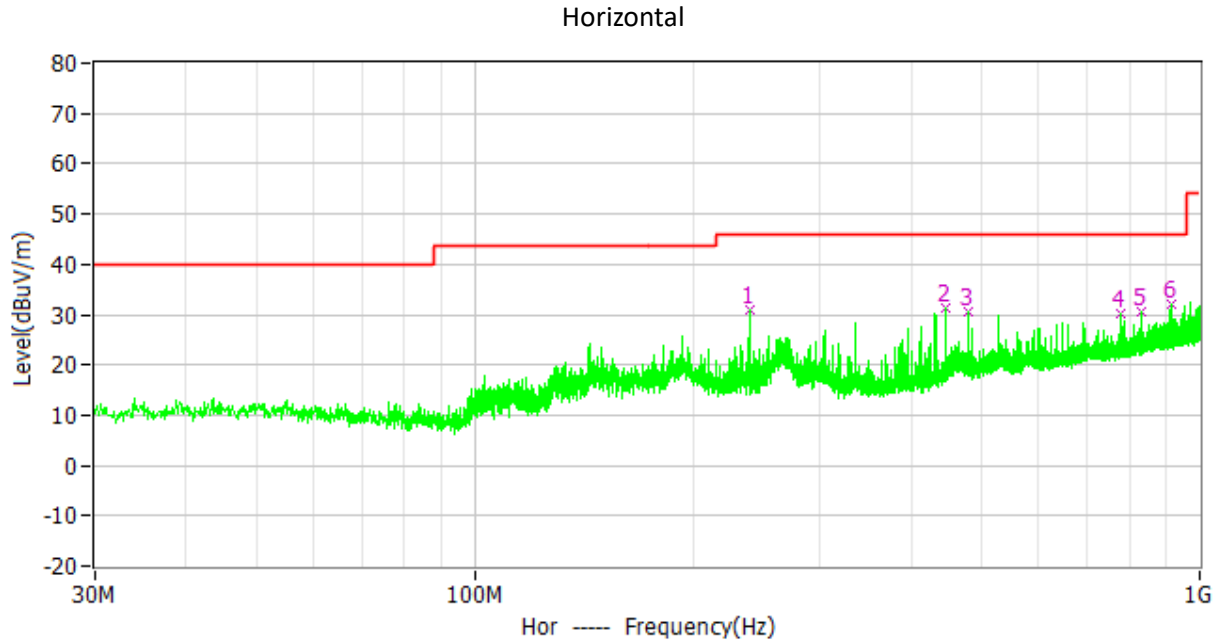
Vertical



| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|------------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1 | 753.351MHz | 46.0 | 26.7 | -19.3 | 2.4 | 24.3 | QP | Ver |
| 2* | 131.850MHz | 43.5 | 34.7 | -8.8 | 21.4 | 13.3 | PK | Ver |
| 3* | 240.005MHz | 46.0 | 35.9 | -10.1 | 23.0 | 12.9 | PK | Ver |
| 4* | 527.998MHz | 46.0 | 37.1 | -8.9 | 16.6 | 20.5 | PK | Ver |
| 5* | 697.942MHz | 46.0 | 36.1 | -9.9 | 12.5 | 23.6 | PK | Ver |
| 6* | 799.307MHz | 46.0 | 35.8 | -10.2 | 10.9 | 24.9 | PK | Ver |

TEST REPORT

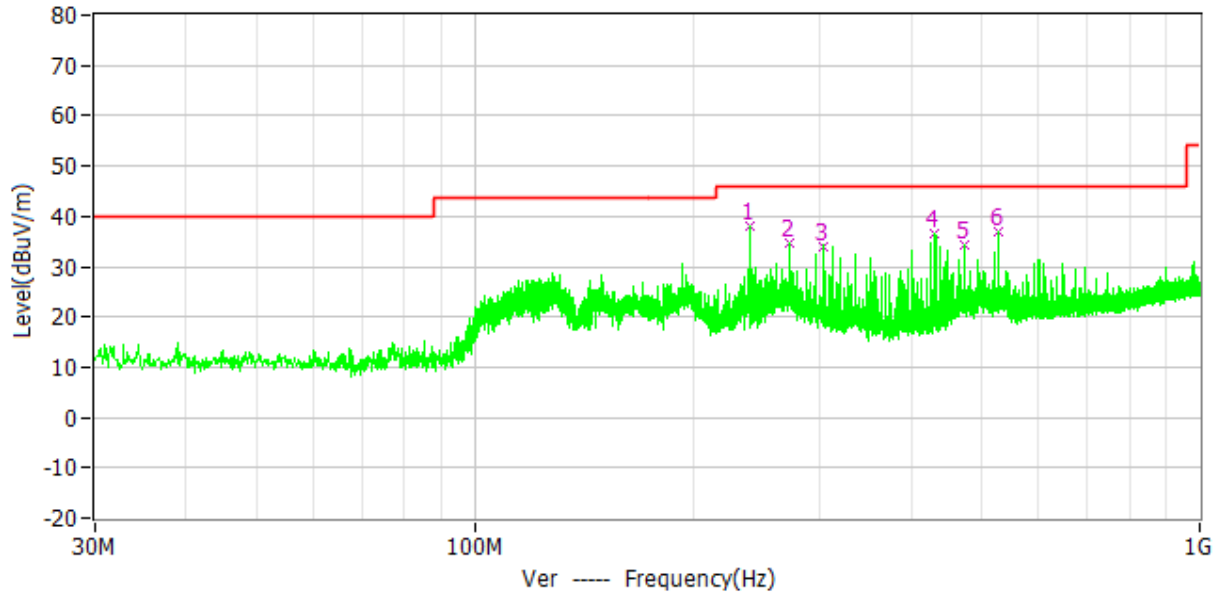
Test Curve of cleaning mode:



| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|------------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1* | 240.005MHz | 46.0 | 31.0 | -15.0 | 18.1 | 12.9 | PK | Hor |
| 2* | 447.488MHz | 46.0 | 31.2 | -14.8 | 12.5 | 18.7 | PK | Hor |
| 3* | 479.013MHz | 46.0 | 30.6 | -15.4 | 11.2 | 19.4 | PK | Hor |
| 4* | 777.094MHz | 46.0 | 30.2 | -15.8 | 5.6 | 24.6 | PK | Hor |
| 5* | 830.153MHz | 46.0 | 30.4 | -15.6 | 5.1 | 25.3 | PK | Hor |
| 6* | 912.894MHz | 46.0 | 32.2 | -13.8 | 5.9 | 26.3 | PK | Hor |

TEST REPORT

Vertical



| No. | Frequency | Limit dBuV/m | Level dBuV/m | Delta dB | Reading dBuV | Factor dB/m | Detector | Polar |
|-----|------------|--------------|--------------|----------|--------------|-------------|----------|-------|
| 1* | 240.005MHz | 46.0 | 38.2 | -7.8 | 25.3 | 12.9 | PK | Ver |
| 2* | 272.015MHz | 46.0 | 34.6 | -11.4 | 20.5 | 14.1 | PK | Ver |
| 3* | 303.055MHz | 46.0 | 34.1 | -11.9 | 18.9 | 15.2 | PK | Ver |
| 4* | 431.968MHz | 46.0 | 36.4 | -9.6 | 18.1 | 18.3 | PK | Ver |
| 5* | 473.872MHz | 46.0 | 34.4 | -11.6 | 15.2 | 19.2 | PK | Ver |
| 6* | 527.998MHz | 46.0 | 37.1 | -8.9 | 16.6 | 20.5 | PK | Ver |

Remark:

1. Factor= Antenna Factor + Cable Loss (-Amplifier, is employed)
2. Level= Original Receiver Reading + Factor
3. Delta = Level - Limit
4. If the PK measured level is lower than AV limit, the AV test can be elided.

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.

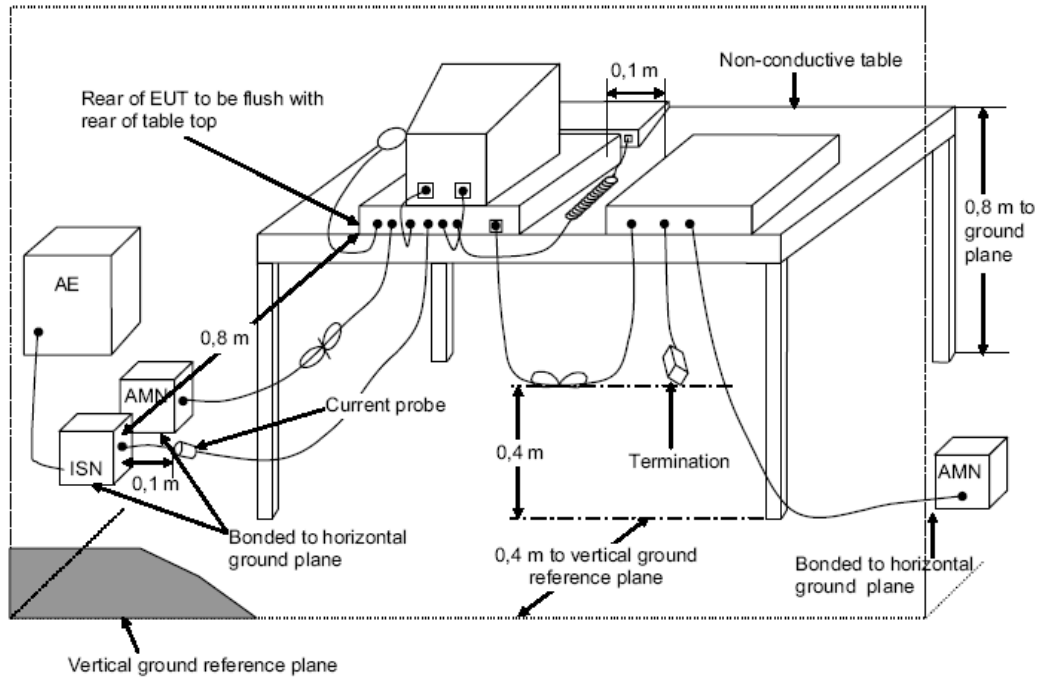
4.1.2 Limits for conducted disturbance voltage at the mains ports of class B device

| 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 |

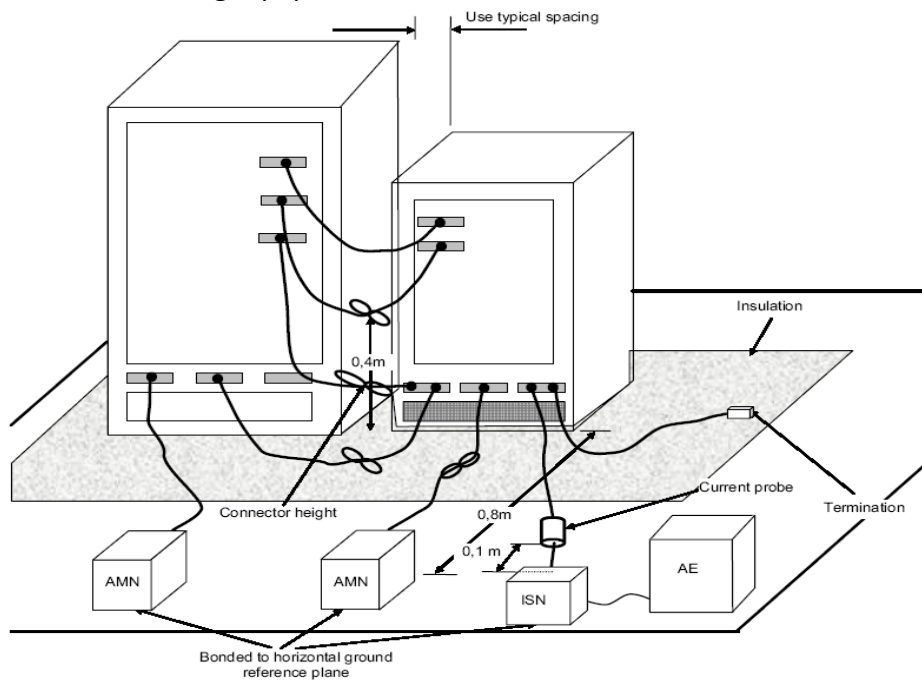
Note: 1. * Means the limit decreasing linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz
 2. If the limit for the measurement with the average detector is met when using a receiver with a quasi-peak detector, the equipment under test shall be deemed to meet both limits and the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

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.

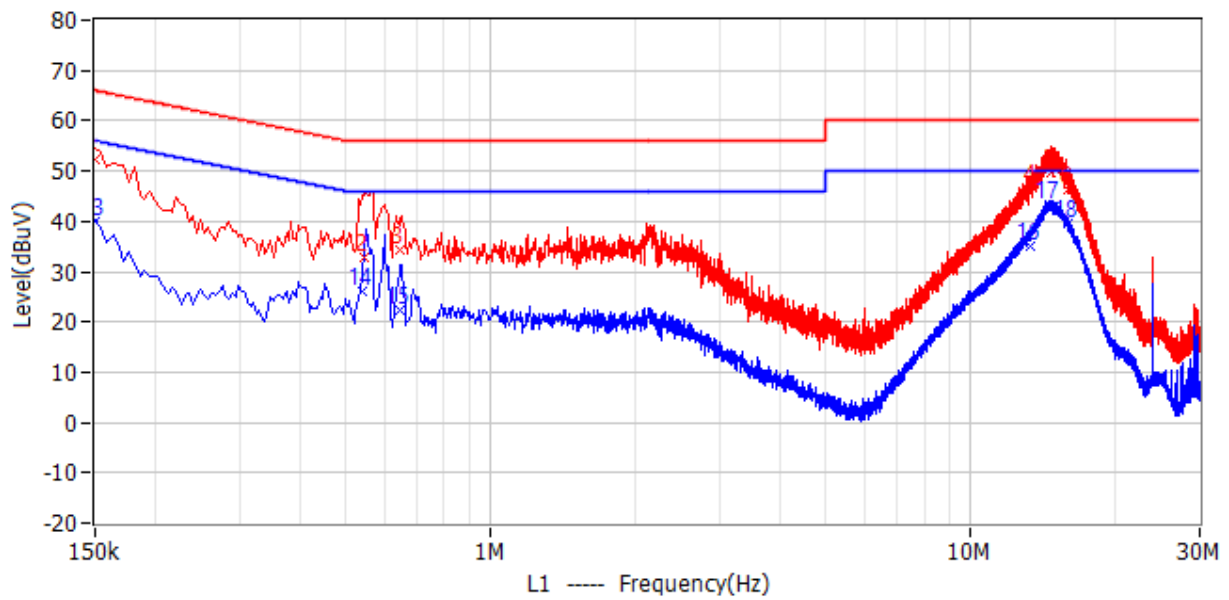
TEST REPORT

4.4 Test Results of Power line conducted emission

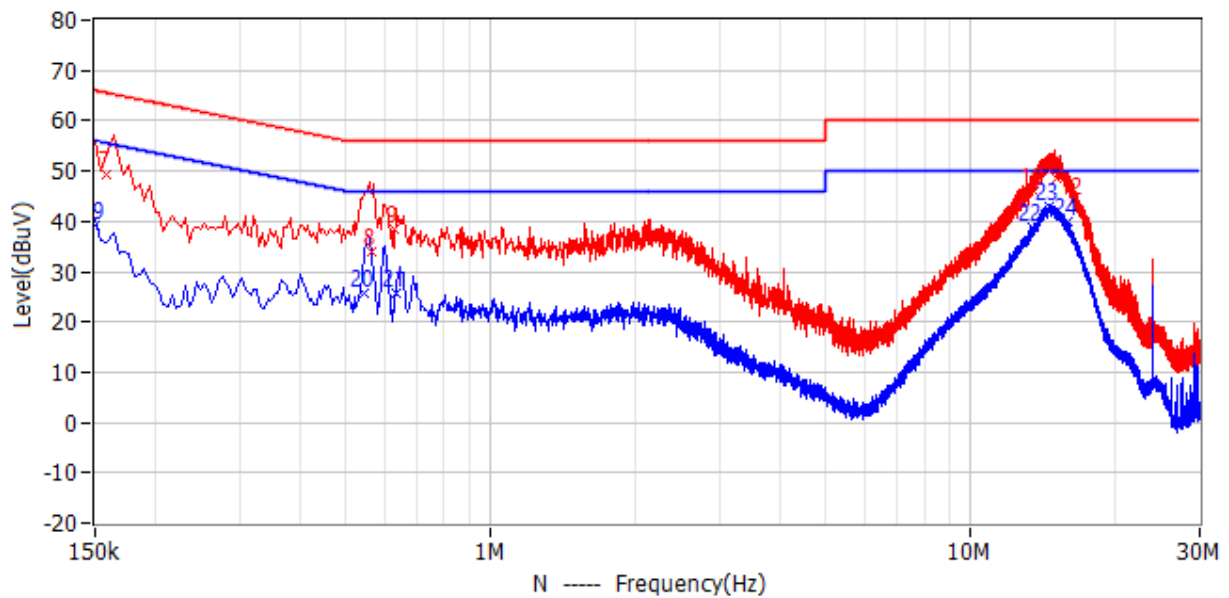
Test Curve:

Test Voltage: AC 120V, 60Hz

L Line



N Line



TEST REPORT

Test Data:

| No. | Frequency | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector | Phase |
|-----|------------|------------|------------|----------|--------------|-----------|----------|-------|
| 1 | 150.000kHz | 66.0 | 52.1 | -13.9 | 45.9 | 6.2 | QP | L1 |
| 2 | 546.000kHz | 56.0 | 32.7 | -23.3 | 26.4 | 6.3 | QP | L1 |
| 3 | 645.000kHz | 56.0 | 34.3 | -21.7 | 28.0 | 6.3 | QP | L1 |
| 4 | 13.479MHz | 60.0 | 46.6 | -13.4 | 40.1 | 6.5 | QP | L1 |
| 5 | 14.739MHz | 60.0 | 49.7 | -10.3 | 43.2 | 6.5 | QP | L1 |
| 6 | 15.941MHz | 60.0 | 46.2 | -13.8 | 39.7 | 6.5 | QP | L1 |
| 7 | 159.000kHz | 65.5 | 49.4 | -16.1 | 43.1 | 6.3 | QP | N |
| 8 | 564.000kHz | 56.0 | 33.8 | -22.2 | 27.6 | 6.2 | QP | N |
| 9 | 631.500kHz | 56.0 | 38.4 | -17.6 | 32.2 | 6.2 | QP | N |
| 10 | 13.587MHz | 60.0 | 46.1 | -13.9 | 39.7 | 6.4 | QP | N |
| 11 | 15.108MHz | 60.0 | 48.7 | -11.3 | 42.3 | 6.4 | QP | N |
| 12 | 16.359MHz | 60.0 | 44.0 | -16.0 | 37.6 | 6.4 | QP | N |
| 13 | 150.000kHz | 56.0 | 40.1 | -15.9 | 33.9 | 6.2 | CAV | L1 |
| 14 | 541.500kHz | 46.0 | 25.9 | -20.1 | 19.6 | 6.3 | CAV | L1 |
| 15 | 645.000kHz | 46.0 | 22.5 | -23.5 | 16.2 | 6.3 | CAV | L1 |
| 16 | 13.313MHz | 50.0 | 35.0 | -15.0 | 28.5 | 6.5 | CAV | L1 |
| 17 | 14.622MHz | 50.0 | 43.3 | -6.7 | 36.8 | 6.5 | CAV | L1 |
| 18 | 16.013MHz | 50.0 | 39.5 | -10.5 | 33.0 | 6.5 | CAV | L1 |
| 19 | 150.000kHz | 56.0 | 39.2 | -16.8 | 33.0 | 6.2 | CAV | N |
| 20 | 546.000kHz | 46.0 | 25.6 | -20.4 | 19.4 | 6.2 | CAV | N |
| 21 | 636.000kHz | 46.0 | 25.6 | -20.4 | 19.3 | 6.3 | CAV | N |
| 22 | 13.376MHz | 50.0 | 38.9 | -11.1 | 32.5 | 6.4 | CAV | N |
| 23 | 14.577MHz | 50.0 | 43.0 | -7.0 | 36.6 | 6.4 | CAV | N |
| 24 | 15.918MHz | 50.0 | 39.9 | -10.1 | 33.5 | 6.4 | CAV | N |

- Remark: 1. Correct Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.*
- 2. Level = Original Receiver Reading + Correct Factor*
- 3. Delta = Level - Limit*
- 4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.*

Appendix I: Photograph of equipment under test

Refer to the documents for the External Photos and Internal Photos

***** END *****