

FCC Test Report

Applicant : Huizhou Intelligent Energy Co., Ltd.

Address : 8-9/F,Bldg.E2,Qunyi Industrial Park,Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, 516039, China

Product Name : PORTABLE POWER STATION

Report Date : Oct. 30, 2023



Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

Code: AB-RF-05-b

Hotline
400-003-0500
www.anbotek.com.cn



Contents

| | |
|---|----|
| 1. General Information | 5 |
| 1.1. Client Information | 5 |
| 1.2. Description of Device (EUT) | 5 |
| 1.3. Auxiliary Equipment Used During Test | 6 |
| 1.4. Description of Test Modes | 7 |
| 1.5. Description Of Test Setup | 8 |
| 1.6. Test Equipment List | 9 |
| 1.7. Measurement Uncertainty | 10 |
| 1.8. Description of Test Facility | 10 |
| 2. Summary of Test Results | 11 |
| 3. Conducted Emission Test | 12 |
| 3.1. Test Standard and Limit | 12 |
| 3.2. Test Setup | 12 |
| 3.3. Test Procedure | 12 |
| 3.4. Test Data | 12 |
| 4. Radiation Spurious Emission | 15 |
| 4.1. Test Standard and Limit | 15 |
| 4.2. Test Setup | 15 |
| 4.3. Test Procedure | 16 |
| 4.4. Test Data | 16 |
| 5. Antenna Requirement | 21 |
| 5.1. Test Standard and Requirement | 21 |
| 5.2. Antenna Connected Construction | 21 |
| APPENDIX I -- TEST SETUP PHOTOGRAPH | 22 |
| APPENDIX II -- EXTERNAL PHOTOGRAPH | 22 |
| APPENDIX III -- INTERNAL PHOTOGRAPH | 22 |



TEST REPORT

Applicant : Huizhou Intelligent Energy Co., Ltd.

Manufacturer : Huizhou Intelligent Energy Co., Ltd.

Product Name : PORTABLE POWER STATION

Test Model No. : H1200Pro

Reference Model No. : N/A

Trade Mark : N/A

Rating(s) : Please see page 6.

Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.209

Test Method(s) : ANSI C63.10: 2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Sept. 28, 2023

Date of Test

Sept. 28 ~ Oct. 15, 2023

Prepared By

Nianxiu Chen

(Nianxiu Chen)

Approved & Authorized Signer

Edward Pan

(Edward Pan)

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

Code: AB-RF-05-b

Hotline
400-003-0500
www.anbotek.com.cn



Revision History

| Report Version | Description | Issued Date |
|----------------|-----------------|---------------|
| R00 | Original Issue. | Oct. 30, 2023 |
| | | |
| | | |



1. General Information

1.1. Client Information

| | | |
|--------------|---|--|
| Applicant | : | Huizhou Intelligent Energy Co., Ltd. |
| Address | : | 8-9/F,Bldg.E2,Qunyi Industrial Park,Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, 516039, China |
| Manufacturer | : | Huizhou Intelligent Energy Co., Ltd. |
| Address | : | 8-9/F,Bldg.E2,Qunyi Industrial Park,Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, 516039, China |
| Factory | : | Huizhou Intelligent Energy Co., Ltd. |
| Address | : | 8-9/F,Bldg.E2,Qunyi Industrial Park,Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, 516039, China |

1.2. Description of Device (EUT)

| | | |
|---------------------|---|---|
| Product Name | : | PORTABLE POWER STATION |
| Test Model No. | : | H1200Pro |
| Reference Model No. | : | N/A |
| Trade Mark | : | N/A |
| Test Power Supply | : | AC 120V, 60Hz |
| Test Sample No. | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample) |
| Adapter | : | N/A |

RF Specification

| | | |
|---------------------|---|------------------------------|
| Operation Frequency | : | 110.1-205KHz |
| Modulation Type | : | ASK |
| Antenna Type | : | Inductive loop coil Antenna |
| Antenna Gain(Peak) | : | 0 dBi (Provided by customer) |

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



Rating(s):

PORTABLE POWER STATION

- Type: H1200Pro
- Battery Capacity: 25.6V, 42Ah/1075.2Wh
- AC Input: 100V-130V~6.7A, 60Hz, 800W
- PV Input: DC 12V-55V~13A, 430W Max
- AC Output ×2: Pure Sine Wave 120V~60Hz, 1200W
- AC Parallel Interface: 1200W
- After Being Connected AC Output: 2400W
- DC Output ×2 + Cigarette Lighter Socket Output: Total 12V~10A
- USB-A Output ×2: 5V=3A, 9V=2A, 12V=1.5A, 18W Max
- USB-C Output ×2: 5V/9V/12V/15V/20V=3A, 20V=5A, 100W Max
- Wireless Charge: 10W
- Operating Temp: 14 to 104°F (-10 to 40°C)
- Charging Temp: 32 to 104°F (0 to 40°C)
- Manufacturer: Huizhou Intelligent Energy Co., Ltd.
- Date Code:

⚠ WARNING!

- Do not short-circuit the unit. To avoid short-circuiting, keep the unit away from all metal objects (e.g. coins, hair-pins, keys, etc.).
- Do not heat the unit, or dispose of it in fire, water or other liquids. Keep away from high temperatures.
- Do not expose the unit to direct sunlight. Keep away from high humidity, dusty places.
- Do not disassemble or reassemble this unit.
- Do not drop and place heavy objects on, or allow strong impact to this unit.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- The unit may become hot when charging. This is normal. Be careful when handling.
- Use the unit properly to avoid electronic shock.
- The product is only used for emergency power station, it can not replace the standard DC or AC power of household appliances or digital products.
- Do not overcharge the internal battery. See Instruction Manual.

⚠ AVERTISSEMENT!

- Ne court-circuitez pas l'appareil. Pour éviter tout court-circuit, éloignez l'appareil de tout objet métallique (par exemple, pièces de monnaie, épingles à cheveux, clés, etc.).
- Ne chauffez pas l'appareil et ne le jetez pas dans le feu, l'eau ou d'autres liquides. Tenir à l'écart des températures élevées. N'exposez pas l'appareil à la lumière directe du soleil.
- Tenir à l'écart des endroits humides et poussiéreux.
- Ne démontez pas et ne réassemblez pas cet appareil.
- Ne laissez pas tomber, ne placez pas d'objets lourds dessus et ne laissez pas de chocs violents sur cet appareil.
- Cet appareil n'est pas destiné à être utilisé par des personnes (y compris des enfants) ayant des capacités physiques, sensorielles ou mentales réduites, ou un manque d'expérience et de connaissances, à moins qu'elles n'aient reçu une supervision ou des instructions concernant.
- L'utilisation de l'appareil par une personne responsable de leur sécurité.
- Les enfants doivent être surveillés pour s'assurer qu'ils ne jouent pas avec l'appareil.
- L'appareil peut devenir chaud pendant la charge. C'est normal. Soyez prudent lors de la manipulation.
- Utilisez l'appareil correctement pour éviter les chocs électroniques. Le produit n'est utilisé que pour la centrale électrique de secours, il ne peut pas remplacer l'alimentation CC ou CA standard des appareils ménagers ou des produits numériques.
- Ne pas surcharger la batterie interne. Consulter le manuel d'utilisation.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
 (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. FCC ID: 2BASNH1200MV1200



H1200ProIM V1.0.00 / 3.06.04.0570

1.3. Auxiliary Equipment Used During Test

| Description | Rating(s) |
|------------------------|---|
| Wireless charging load | Manufacturer: Shenzhen Ouju Technology Co., Ltd. M/N: CD2577 Power: 5W/7.5W/10W/15W |



1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|--------------|-----------------------------------|
| Mode 1 | Charging & Wireless Charging Mode |

| For Conducted Emission | |
|------------------------|-----------------------------------|
| Final Test Mode | Description |
| Mode 1 | Charging & Wireless Charging Mode |

| For Radiated Emission | |
|-----------------------|-----------------------------------|
| Final Test Mode | Description |
| Mode 1 | Charging & Wireless Charging Mode |

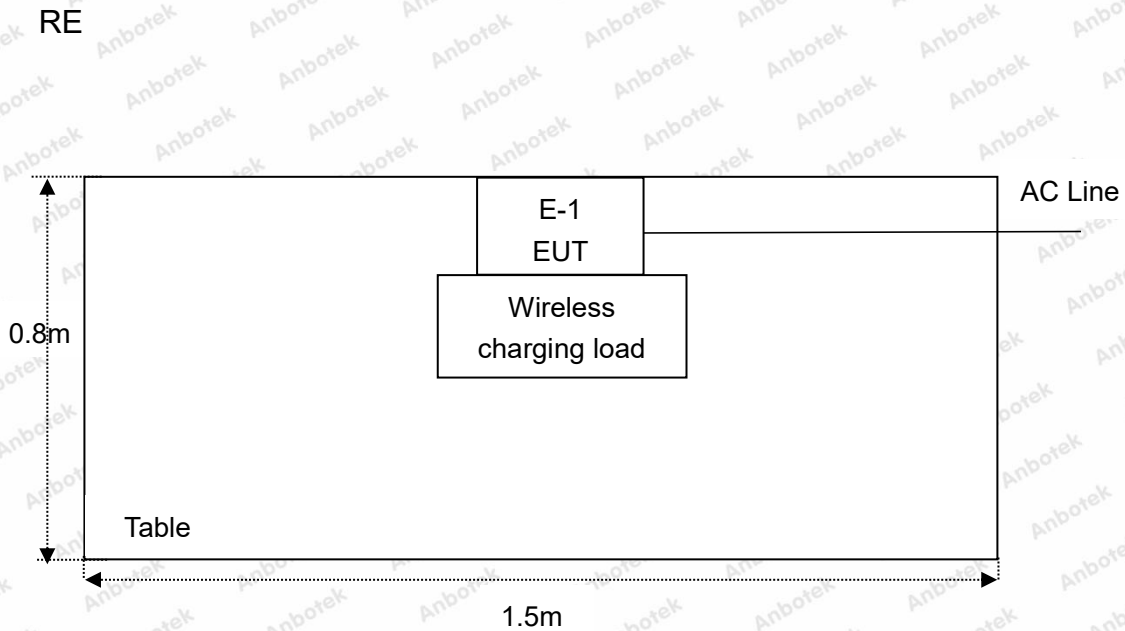
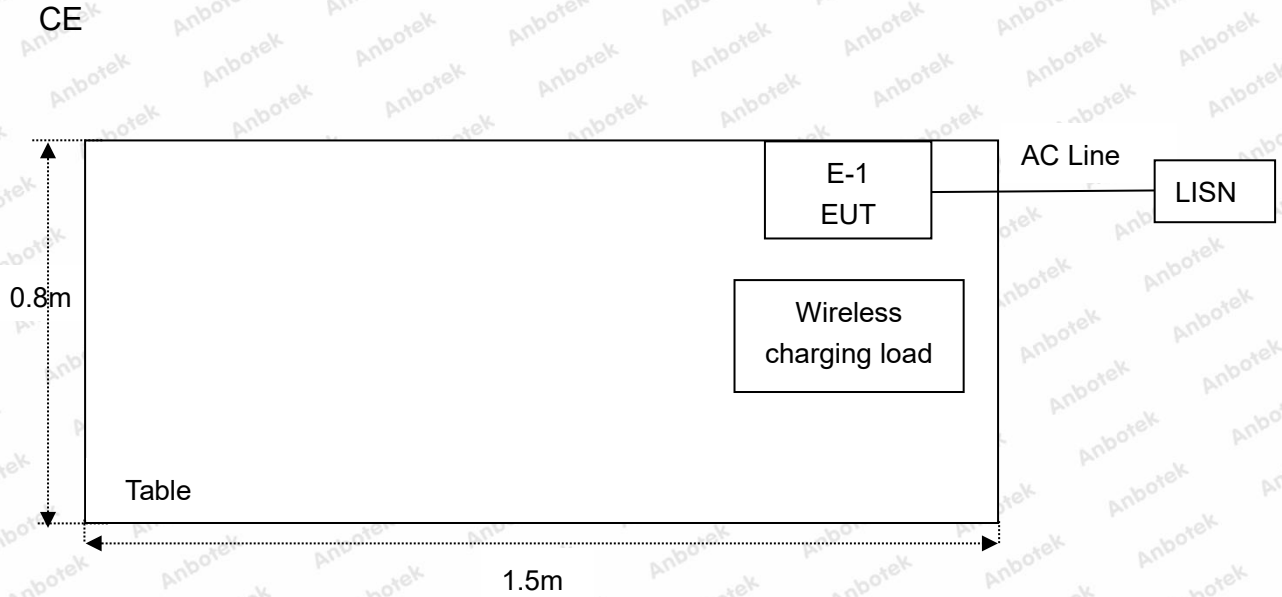
Note:

(1) Test channel is 0.1483MHz.

(2) All the situation(full load, half load and empty load) has been tested,only the worst situation (full load 10W) was recorded in the report.



1.5. Description Of Test Setup



1.6. Test Equipment List

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---|-------------------------|-------------------|--------------|---------------|---------------|
| 1. | L.I.S.N. Artificial Mains Network | Rohde & Schwarz | ENV216 | 100055 | Oct. 23, 2022 | 1 Year |
| 2. | Three Phase V-type Artificial Power Network | CYBERTEK | EM5040DT | E215040DT001 | Jul. 05, 2023 | 1 Year |
| 3. | EMI Test Receiver | Rohde & Schwarz | ESCI | 100627 | Oct. 12, 2023 | 1 Year |
| 4. | EMI Test Receiver | Rohde & Schwarz | ESR26 | 101481 | Oct. 23, 2022 | 1 Year |
| 5. | RF Switching Unit | Compliance Direction | RSU-M2 | 38303 | Oct. 22, 2022 | 1 Year |
| 6. | MXA Spectrum Analysis | Agilent | N9020A | MY51170037 | Oct. 12, 2023 | 1 Year |
| 7. | EMI Preamplifier | SKET Electronic | LNPA-0118G -45 | SKET-PA-002 | Oct. 12, 2023 | 1 Year |
| 8. | Double Ridged Horn Antenna | SCHWARZBECK | BBHA 9120D | 02555 | Oct. 16, 2023 | 3 Year |
| 9. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | 345 | Oct. 23, 2022 | 3 Year |
| 10. | Loop Antenna | Schwarzbeck | FMZB1519B | 00053 | Oct. 23, 2022 | 1 Year |
| 11. | Horn Antenna | A-INFO | LB-180400- KF | J211060628 | Oct. 23, 2022 | 1 Year |
| 12. | Pre-amplifier | SONOMA | 310N | 186860 | Oct. 23, 2022 | 1 Year |
| 13. | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | N/A | N/A |
| 14. | MXA Spectrum Analysis | KEYSIGHT | N9020A | MY53280032 | Oct. 12, 2023 | 1 Year |
| 15. | MXG RF Vector Signal Generator | Agilent | N5182A | MY48180656 | Oct. 12, 2023 | 1 Year |
| 16. | Signal Generator | Agilent | E4421B | MY41000743 | Oct. 12, 2023 | 1 Year |
| 17. | DC Power Supply | IVYTECH | IV3605 | 1804D360510 | Oct. 22, 2023 | 1 Year |
| 18. | Constant Temperature Humidity Chamber | ZHONGJIAN | ZJ-KHWS80 B | N/A | Oct. 19, 2022 | 1 Year |
| 19. | Power Meter | Agilent | N1914A | MY50001102 | Oct.26, 2022 | 1 Year |



1.7. Measurement Uncertainty

| Parameter | Uncertainty |
|---|--------------------------------------|
| Conducted emissions (AMN 150kHz~30MHz) | 3.8dB |
| Radiated spurious emissions (Below 30MHz) | 3.53dB |
| Radiated spurious emissions (30MHz~1GHz) | Horizontal: 3.92dB; Vertical: 4.52dB |
| This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. | |

1.8. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



2. Summary of Test Results

| Standard Section | Test Item | Result |
|------------------|-------------------------|--------|
| 15.203 | Antenna Requirement | PASS |
| 15.207 | Conducted Emission Test | PASS |
| 15.205/15.209 | Spurious Emission | PASS |



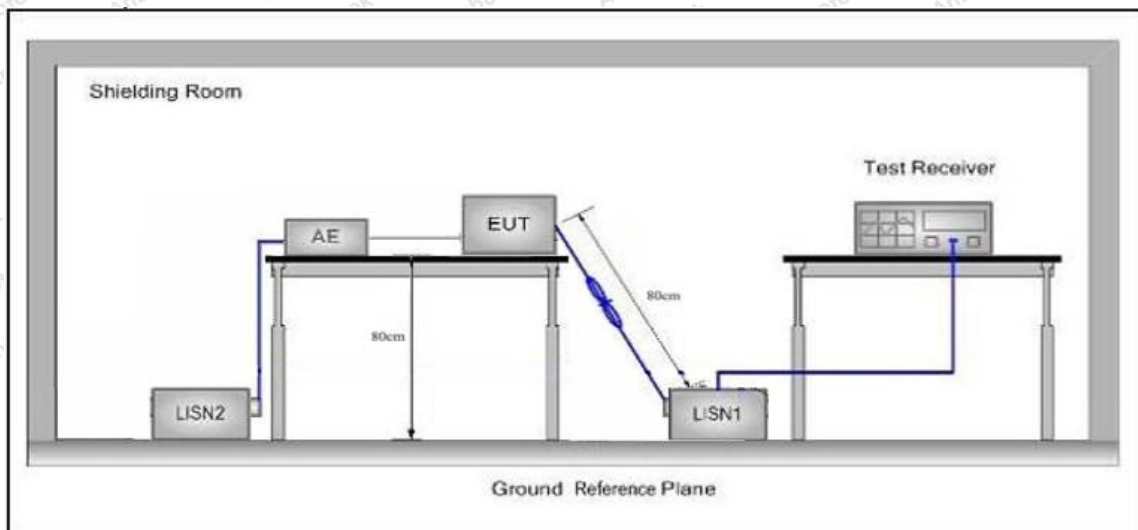
3. Conducted Emission Test

3.1. Test Standard and Limit

| Test Standard | FCC Part15 Section 15.207 | | |
|---------------|---------------------------|--------------------------------|---------------|
| | Frequency | Maximum RF Line Voltage (dBuV) | |
| | | Quasi-peak Level | Average Level |
| Test Limit | 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * |
| | 500kHz~5MHz | 56 | 46 |
| | 5MHz~30MHz | 60 | 50 |

Remark: (1) *Decreasing linearly with logarithm of the frequency.
 (2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

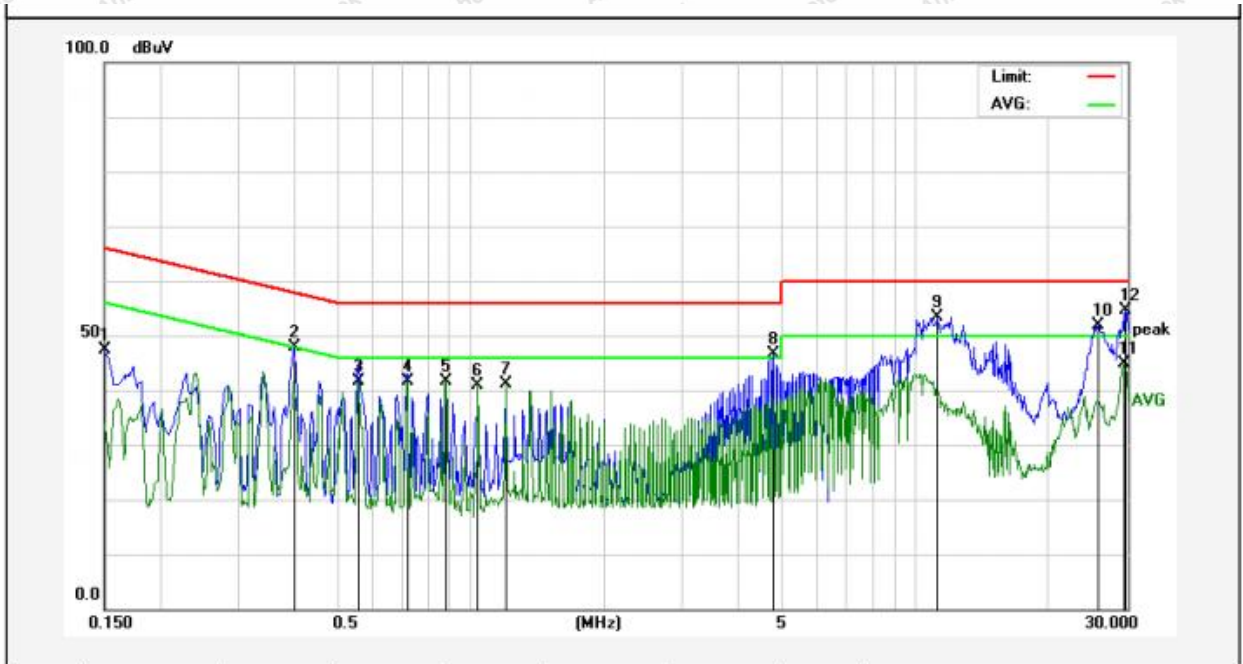
AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.

Please to see the following pages.



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz
 Comment: Live Line
 Temp.(°C)/Hum.(%RH): 22.3°C/52%RH

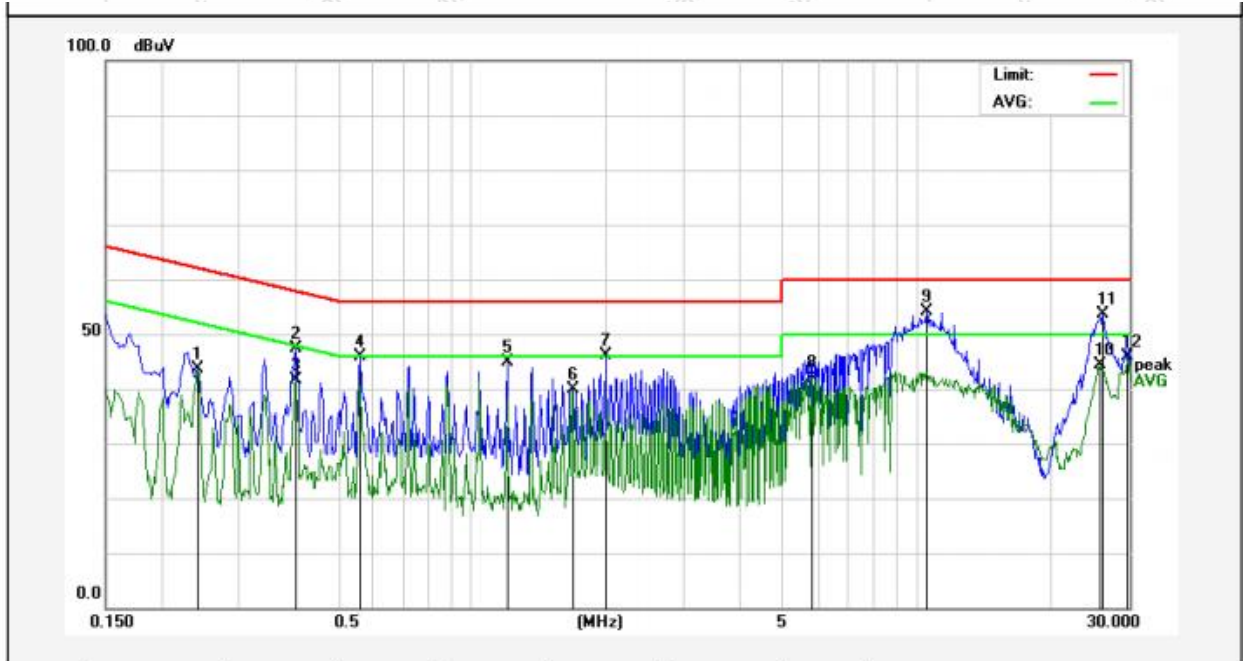


| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit (dBuV) | Over Limit (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|--------------|-----------------|----------|--------|
| 1 | 0.1499 | 30.77 | 16.63 | 47.40 | 66.00 | -18.60 | QP | |
| 2 | 0.4020 | 30.75 | 17.13 | 47.88 | 57.81 | -9.93 | QP | |
| 3 | 0.5620 | 24.12 | 17.45 | 41.57 | 46.00 | -4.43 | AVG | |
| 4 | 0.7217 | 24.13 | 17.46 | 41.59 | 46.00 | -4.41 | AVG | |
| 5 | 0.8820 | 24.14 | 17.50 | 41.64 | 46.00 | -4.36 | AVG | |
| 6 | 1.0420 | 23.46 | 17.54 | 41.00 | 46.00 | -5.00 | AVG | |
| 7 | 1.2016 | 23.59 | 17.52 | 41.11 | 46.00 | -4.89 | AVG | |
| 8 | 4.7979 | 29.21 | 17.40 | 46.61 | 56.00 | -9.39 | QP | |
| 9 | 11.2018 | 35.87 | 17.60 | 53.47 | 60.00 | -6.53 | QP | |
| 10 | 25.7777 | 33.93 | 17.98 | 51.91 | 60.00 | -8.09 | QP | |
| 11 | 29.4377 | 26.78 | 18.16 | 44.94 | 50.00 | -5.06 | AVG | |
| 12 | 29.7220 | 36.50 | 18.18 | 54.68 | 60.00 | -5.32 | QP | |



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz
 Comment: Neutral Line
 Temp.(°C)/Hum.(%RH): 22.3°C/52%RH



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit (dBuV) | Over Limit (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|--------------|-----------------|----------|--------|
| 1 | 0.2419 | 26.75 | 16.84 | 43.59 | 52.03 | -8.44 | AVG | |
| 2 | 0.4020 | 30.14 | 17.13 | 47.27 | 57.81 | -10.54 | QP | |
| 3 | 0.4020 | 24.54 | 17.13 | 41.67 | 47.81 | -6.14 | AVG | |
| 4 | 0.5620 | 28.38 | 17.45 | 45.83 | 56.00 | -10.17 | QP | |
| 5 | 1.2018 | 27.41 | 17.52 | 44.93 | 56.00 | -11.07 | QP | |
| 6 | 1.6818 | 22.31 | 17.49 | 39.80 | 46.00 | -6.20 | AVG | |
| 7 | 1.9979 | 28.57 | 17.47 | 46.04 | 56.00 | -9.96 | QP | |
| 8 | 5.8219 | 24.81 | 17.39 | 42.20 | 50.00 | -7.80 | AVG | |
| 9 | 10.5616 | 36.61 | 17.58 | 54.19 | 60.00 | -5.81 | QP | |
| 10 | 25.8140 | 26.32 | 17.98 | 44.30 | 50.00 | -5.70 | AVG | |
| 11 | 26.2138 | 35.55 | 18.00 | 53.55 | 60.00 | -6.45 | QP | |
| 12 | 29.7578 | 27.69 | 18.18 | 45.87 | 50.00 | -4.13 | AVG | |



4. Radiation Spurious Emission

4.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15.209 and 15.205 | | | | |
|---------------|--|----------------------------------|----------------|------------|--------------------------|
| Test Limit | Frequency (MHz) | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) |
| | 0.009MHz~0.490MHz | 2400/F(kHz) | - | - | 300 |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | - | - | 30 |
| | 1.705MHz-30MHz | 30 | - | - | 30 |
| | 30MHz~88MHz | 100 | 40.0 | Quasi-peak | 3 |
| | 88MHz~216MHz | 150 | 43.5 | Quasi-peak | 3 |
| | 216MHz~960MHz | 200 | 46.0 | Quasi-peak | 3 |
| | 960MHz~1000MHz | 500 | 54.0 | Quasi-peak | 3 |
| | Above 1000MHz | 500 | 54.0 | Average | 3 |
| - | | - | 74.0 | Peak | 3 |

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

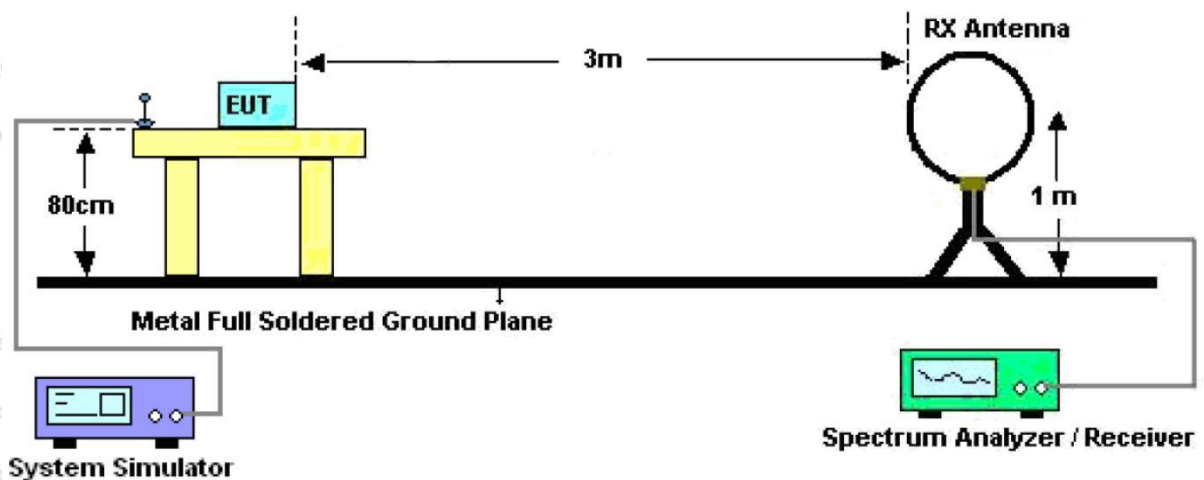


Figure 1. Below 30MHz



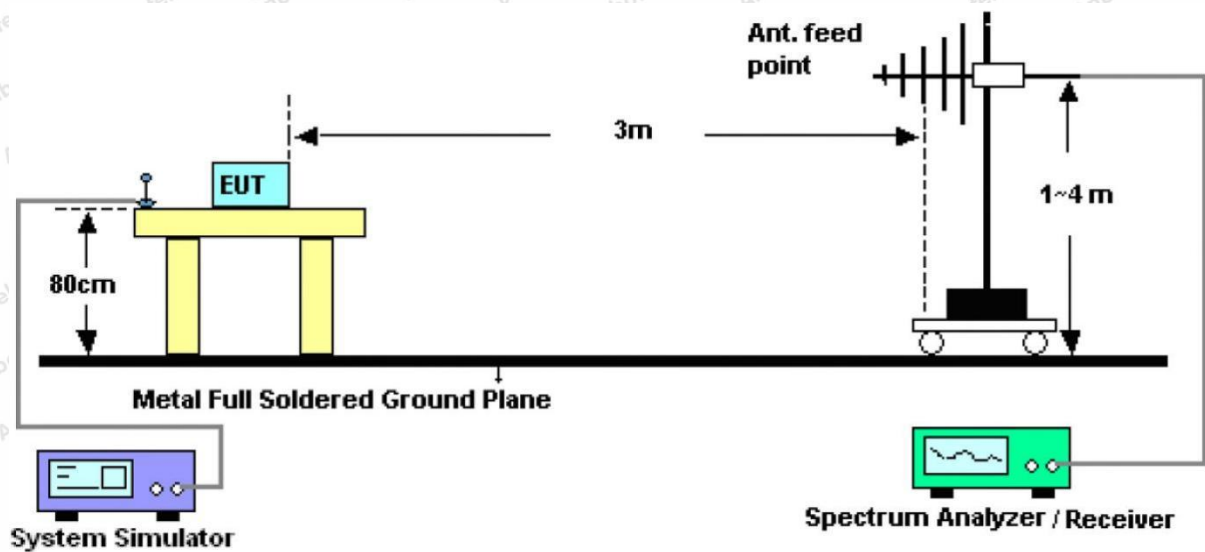


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

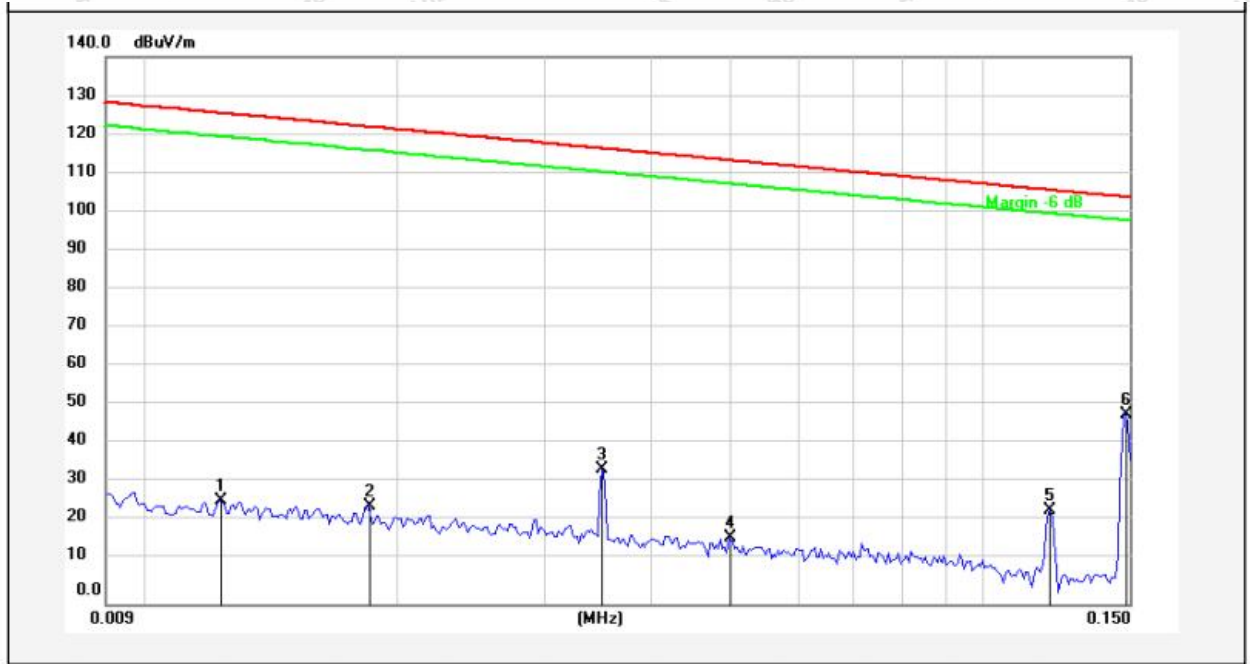
PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.



Test Results (Between 9KHz – 150KHz)

Test Mode: Mode 1
 Distance: 3m
 Power Source: AC 120V, 60Hz
 Temp.(°C)/Hum.(%RH): 24.1°C/52%RH



| No. | Freq. (MHz) | Reading (dBuV) | Factor () | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1 | 0.0123 | 6.41 | 20.12 | 26.53 | 125.61 | -99.08 | QP | | | |
| 2 | 0.0185 | 4.71 | 20.26 | 24.97 | 122.09 | -97.12 | QP | | | |
| 3 | 0.0351 | 13.85 | 20.49 | 34.34 | 116.56 | -82.22 | QP | | | |
| 4 | 0.0498 | -3.52 | 20.42 | 16.90 | 113.54 | -96.64 | QP | | | |
| 5 | 0.1204 | 3.74 | 20.34 | 24.08 | 105.92 | -81.84 | QP | | | |
| 6 | 0.1483 | 28.29 | 20.33 | 48.62 | 104.12 | -55.50 | QP | | | |



Test Results (Between 0.15MHz – 30MHz)

Test Mode: Mode 1
 Distance: 3m
 Power Source: AC 120V, 60Hz
 Temp.(°C)/Hum.(%RH): 24.1°C/52%RH



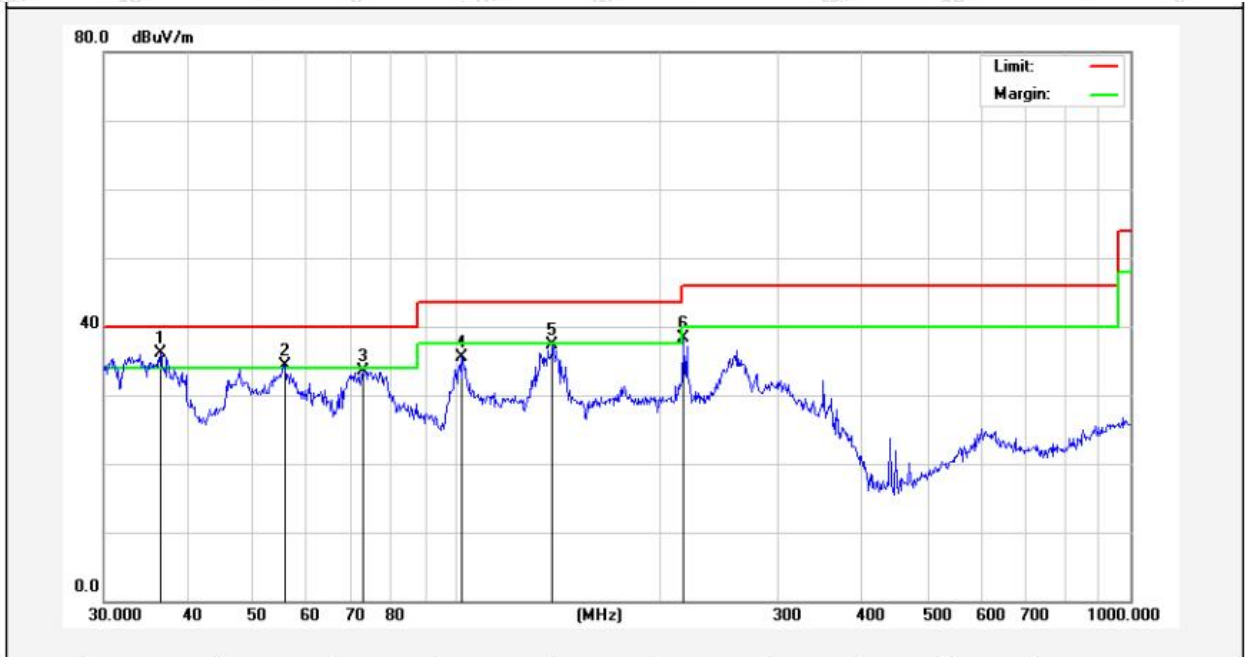
| No. | Freq. (MHz) | Reading (dBuV) | Factor () | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|-----------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1 | 0.1500 | 36.81 | 20.33 | 57.14 | 104.02 | -46.88 | QP | | | |
| 2 | 0.2923 | 14.71 | 20.30 | 35.01 | 98.26 | -63.25 | QP | | | |
| 3 | 0.4420 | 14.25 | 20.27 | 34.52 | 94.69 | -60.17 | QP | | | |
| 4 | 0.7351 | 4.52 | 20.25 | 24.77 | 70.29 | -45.52 | QP | | | |
| 5 | 1.3592 | 0.36 | 20.26 | 20.62 | 64.96 | -44.34 | QP | | | |
| 6 | 4.7968 | -12.15 | 20.41 | 8.26 | 69.50 | -61.24 | QP | | | |

Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.



Test Results (Between 30MHz –1000 MHz)

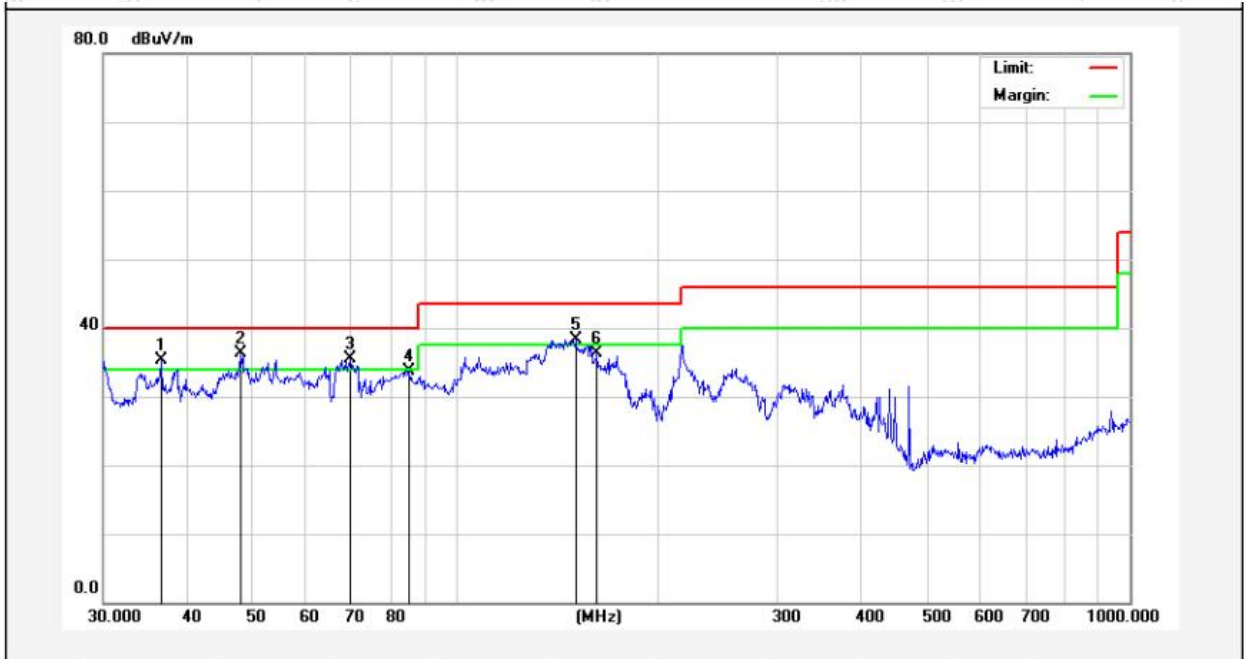
Test Mode: Mode 1
 Distance: 3m
 Power Source: AC 120V, 60Hz
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 23.5°C/49%RH



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|---------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1 | 36.3813 | 53.86 | -17.78 | 36.08 | 40.00 | -3.92 | QP | | | |
| 2 | 55.8046 | 51.95 | -17.60 | 34.35 | 40.00 | -5.65 | QP | | | |
| 3 | 72.5916 | 55.65 | -22.11 | 33.54 | 40.00 | -6.46 | QP | | | |
| 4 | 102.0014 | 57.06 | -21.65 | 35.41 | 43.50 | -8.09 | QP | | | |
| 5 | 138.8735 | 60.40 | -23.00 | 37.40 | 43.50 | -6.10 | QP | | | |
| 6 | 217.5441 | 60.39 | -22.03 | 38.36 | 46.00 | -7.64 | QP | | | |



Test Mode: Mode 1
 Distance: 3m
 Power Source: AC 120V, 60Hz
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 23.5°C/49%RH



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|---------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1 | 36.5091 | 51.73 | -16.37 | 35.36 | 40.00 | -4.64 | QP | | | |
| 2 | 47.9939 | 51.72 | -15.48 | 36.24 | 40.00 | -3.76 | QP | | | |
| 3 | 69.8449 | 55.46 | -19.94 | 35.52 | 40.00 | -4.48 | QP | | | |
| 4 | 85.2980 | 52.25 | -18.48 | 33.77 | 40.00 | -6.23 | QP | | | |
| 5 | 150.5378 | 60.37 | -22.07 | 38.30 | 43.50 | -5.20 | QP | | | |
| 6 | 162.0414 | 57.94 | -21.55 | 36.39 | 43.50 | -7.11 | QP | | | |



5. Antenna Requirement

5.1. Test Standard and Requirement

| | |
|---------------|--|
| Test Standard | FCC Part15 Section 15.203 |
| Requirement | 1) 15.203 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 a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. |

5.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

