



## FCC TEST REPORT

## FOR

## FE Technologies

## V6 Self Loan Station

## Test Model: LIB-232

Prepared for : FE Technologies  
Address : 129 Fyans Street Geelong, 3220 Australia

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
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Date of receipt of test sample : November 18, 2024  
Number of tested samples : 2  
Sample No. : A241118151-1, A241118151-2  
Serial number : Prototype  
Date of Test : November 18, 2024 ~ March 20, 2025  
Date of Report : March 21, 2025



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**FCC TEST REPORT**  
**FCC CFR 47 PART 15 C (15.225)****Report Reference No.** ..... : **LCSA11184096EA****Date of Issue**..... : March 21, 2025**Testing Laboratory Name**..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.****Address**..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China**Testing Location/ Procedure**..... : Full application of Harmonised standards ■  
Partial application of Harmonised standards □  
Other standard testing method □**Applicant's Name**..... : **FE Technologies****Address**..... : 129 Fyans Street Geelong, 3220 Australia**Test Specification****Standard**..... : FCC CFR 47 PART 15 C(15.225)**Test Report Form No**..... : TRF-4-E-154 A/0**TRF Originator**..... : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF**..... : Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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**Test Item Description**..... : **V6 Self Loan Station****Trade Mark**..... : FE Technologies**Test Model**..... : LIB-232**Ratings**..... : Input: 100-240V~, 50/60Hz, 100W**Result** ..... : Positive**Compiled by:**

Ling Zhu/ Administrator

**Supervised by:**

Jack Liu / Technique principal

**Approved by:**

Gavin Liang/ Manager



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**FCC -- TEST REPORT**

|                          |                       |  |
|--------------------------|-----------------------|--|
| <b>Test Report No. :</b> | <b>LCSA11184096EA</b> | <u>March 21, 2025</u><br>Date of issue |
|--------------------------|-----------------------|--|

Test Model..... : LIB-232

EUT..... : V6 Self Loan Station

**Applicant..... : FE Technologies**

Address..... : 129 Fyans Street Geelong,3220 Australia

Telephone..... : /

Fax..... : /

**Manufacturer..... : FE Technologies**

Address..... : 129 Fyans Street Geelong,3220 Australia

Telephone..... : /

Fax..... : /

**Factory..... : FE Technologies**

Address..... : 129 Fyans Street Geelong,3220 Australia

Telephone..... : /

Fax..... : /

|                    |                 |
|--------------------|-----------------|
| <b>Test Result</b> | <b>Positive</b> |
|--------------------|-----------------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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Revision History

| Report Version | Issue Date     | Revision Content | Revised By |
|----------------|----------------|------------------|------------|
| 000            | March 21, 2025 | Initial Issue    | ---        |
|                |                |                  |            |
|                |                |                  |            |



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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

|                     |                                   |
|---------------------|-----------------------------------|
| EUT                 | : V6 Self Loan Station            |
| Test Model          | : LIB-232                         |
| Ratings             | : Input: 100-240V~, 50/60Hz, 100W |
| Hardware Version    | : V1.0                            |
| Software Version    | : V1.0                            |
| NFC                 | :                                 |
| Operating Frequency | : 13.56MHz                        |
| Modulation Type     | : ASK                             |
| Antenna Description | : PCB Antenna, 0dBi(Max.)         |

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.





## 1.2 Support equipment List

| Manufacturer | Description | Model | Serial Number | Certificate |
|--------------|-------------|-------|---------------|-------------|
| --           | --          | --    | --            | --          |

## 1.3 External I/O

| I/O Port Description | Quantity | Cable |
|----------------------|----------|-------|
| Power Port           | 1        | N/A   |
| LAN Port             | 1        | N/A   |

## 1.4 Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.



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## 1.5 Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

## 1.6 Measurement Uncertainty

| Test Item              |   | Frequency Range | Uncertainty | Note |
|------------------------|---|-----------------|-------------|------|
| Radiation Uncertainty  | : | 9KHz~30MHz      | ±3.10dB     | (1)  |
|                        |   | 30MHz~200MHz    | ±2.96dB     | (1)  |
|                        |   | 200MHz~1000MHz  | ±3.10dB     | (1)  |
|                        |   | 1GHz~26.5GHz    | ±3.80dB     | (1)  |
|                        |   | 26.5GHz~40GHz   | ±3.90dB     | (1)  |
| Conduction Uncertainty | : | 150kHz~30MHz    | ±1.63dB     | (1)  |
| Power disturbance      | : | 30MHz~300MHz    | ±1.60dB     | (1)  |

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

## 1.7 Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in Y position.

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/50Hz modes, recorded worst case at AC 120V/60Hz.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power.

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power.



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## 2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

### 2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

### 2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.225 under the FCC Rules Part 15 Subpart C.

### 2.3 General Test Procedures

#### 2.3.1 Conducted Emissions

The EUT is directly placed on the ground. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turntable, which is directly placed on the ground. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.



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### 3. SYSTEM TEST CONFIGURATION

#### 3.1. Justification

The system was configured for testing in a continuous transmits condition.

#### 3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software provided by applicant.

#### 3.3. Special Accessories

| No. | Equipment | Manufacturer | Model No. | Serial No. | Length | shielded/<br>unshielded | Notes |
|-----|-----------|--------------|-----------|------------|--------|-------------------------|-------|
| /   | /         | /            | /         | /          | /      | /                       | /     |

#### 3.4. Block Diagram/Schematics

Please refer to the related document

#### 3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

#### 3.6. Test Setup

Please refer to the test setup photo.



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4. SUMMARY OF TEST RESULTS

| Applied Standard: FCC Part 15 Subpart C |                      |        |
|---|----------------------|--------|
| Test Items                              | FCC Rules            | Result |
| Line Conducted Emissions                | §15.207(a)           | PASS   |
| Field Strength of Fundamental Emissions | §15.225(a)(b)(c)     | PASS   |
| Radiated Emissions                      | §15.225(d) & §15.209 | PASS   |
| 20dB Bandwidth                          | § 15.215             | PASS   |
| Frequency Stability                     | §15.225(e)           | PASS   |
| Antenna Requirement                     | §15.203              | PASS   |



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## 5. RADIATED MEASUREMENT

### 5.1. Radiated Emission

#### 5.1.1. Standard Applicable

According to §15.209/ §15.205

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz               | MHz                 | MHz           | GHz         |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110       | 16.42-16.423        | 399.9-410     | 4.5-5.15    |
| 1\ 0.495-0.505    | 16.69475-16.69525   | 608-614       | 5.35-5.46   |
| 2.1735-2.1905     | 16.80425-16.80475   | 960-1240      | 7.25-7.75   |
| 4.125-4.128       | 25.5-25.67          | 1300-1427     | 8.025-8.5   |
| 4.17725-4.17775   | 37.5-38.25          | 1435-1626.5   | 9.0-9.2     |
| 4.20725-4.20775   | 73-74.6             | 1645.5-1646.5 | 9.3-9.5     |
| 6.215-6.218       | 74.8-75.2           | 1660-1710     | 10.6-12.7   |
| 6.26775-6.26825   | 108-121.94          | 1718.8-1722.2 | 13.25-13.4  |
| 6.31175-6.31225   | 123-138             | 2200-2300     | 14.47-14.5  |
| 8.291-8.294       | 149.9-150.05        | 2310-2390     | 15.35-16.2  |
| 8.362-8.366       | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4   |
| 8.37625-8.38675   | 156.7-156.9         | 2690-2900     | 22.01-23.12 |
| 8.41425-8.41475   | 162.0125-167.17     | 3260-3267     | 23.6-24.0   |
| 12.29-12.293      | 167.72-173.2        | 3332-3339     | 31.2-31.8   |
| 12.51975-12.52025 | 240-285             | 3345.8-3358   | 36.43-36.5  |
| 12.57675-12.57725 | 322-335.4           | 3600-4400     | (2\)        |
| 13.36-13.41       |                     |               |             |

1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

2\ Above 38.6

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009~0.490       | 2400/F(KHz)                       | 300                           |
| 0.490~1.705       | 24000/F(KHz)                      | 30                            |
| 1.705~30.0        | 30                                | 30                            |
| 30~88             | 100                               | 3                             |
| 88~216            | 150                               | 3                             |
| 216~960           | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

#### 5.1.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter                        | Setting   |
|---|---|
| Attenuation                               | Auto  |
| Start Frequency                           | 1000 MHz  |
| Stop Frequency                            | 10 <sup>th</sup> carrier harmonic                 |
| RB / VB (Emission in restricted band)     | 1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average |
| RB / VB (Emission in non-restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average |



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| Receiver Parameter     | Setting                                    |
|------------------------|--|
| Attenuation            | Auto                                       |
| Start ~ Stop Frequency | 9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG  |
| Start ~ Stop Frequency | 150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB/VB 120kHz/1MHz for QP   |

### 5.1.3. Test Procedures

#### 1) Sequence of testing 9 kHz to 30 MHz

##### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

##### Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

##### Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



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## 2) Sequence of testing 30 MHz to 1 GHz

### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

### Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

### Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm 45^\circ$ ) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



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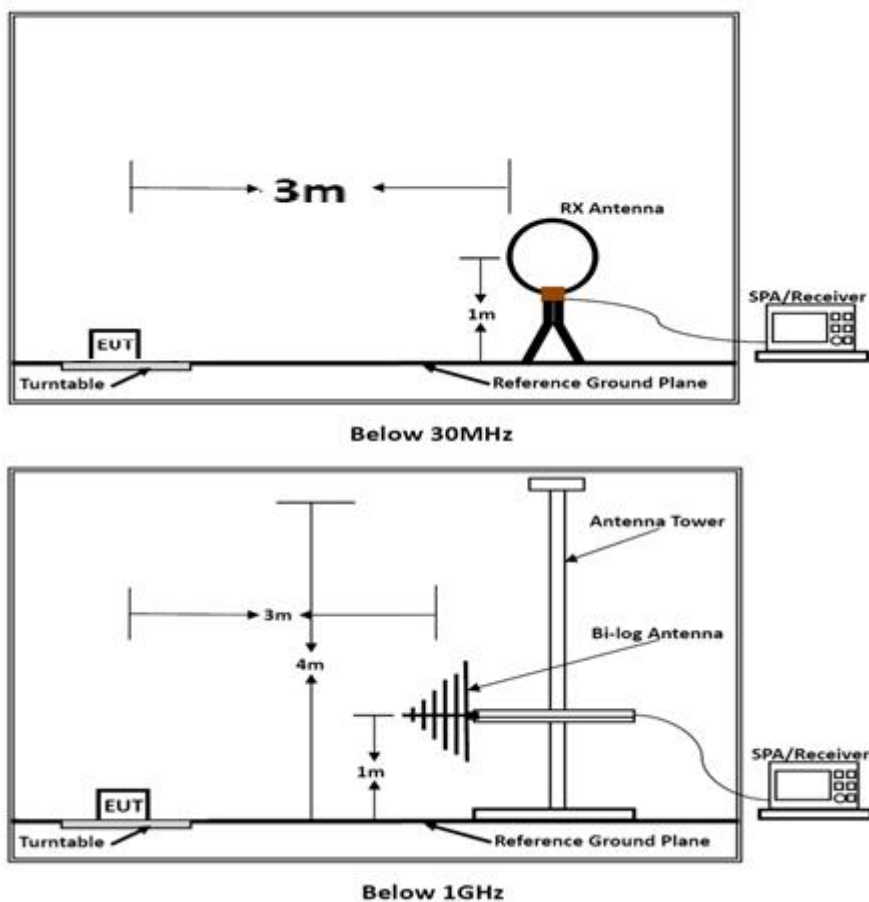
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#### 5.1.4. Test Setup Layout



#### 5.1.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS \text{ (dBuV/m)} = RA \text{ (dBuV)} + AF \text{ (dB/m)} + CL \text{ (dB)} - AG \text{ (dB)}$$

|                           |  |
|---------------------------|--|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude    | AG = Amplifier Gain                        |
| AF = Antenna Factor       |  |



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## 5.1.6. Test Results

|               |         |                |       |
|---------------|---------|----------------|-------|
| Temperature   | 23.6°C  | Humidity       | 52.2% |
| Test Engineer | Jay Luo | Configurations | NFC   |

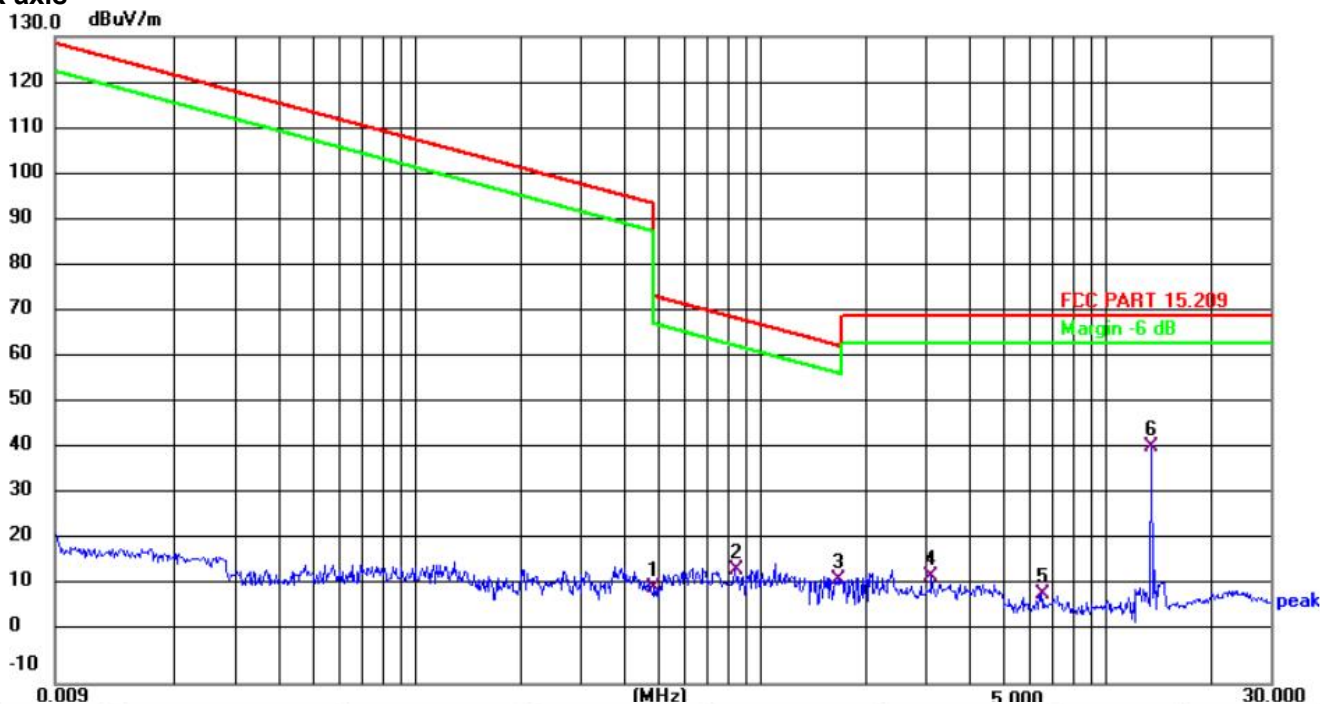
PASS.

The test data please refer to following page:

## 9 KHz~30MHz

Note: Only recorded the worst test result.

X axis



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 0.4909          | 21.27          | -10.31        | 10.96          | 73.78          | -62.82      | QP       |
| 2   | 0.8386          | 24.65          | -10.13        | 14.52          | 69.13          | -54.61      | QP       |
| 3   | 1.6710          | 22.63          | -10.02        | 12.61          | 63.14          | -50.53      | QP       |
| 4   | 3.1206          | 23.39          | -9.96         | 13.43          | 69.54          | -56.11      | QP       |
| 5   | 6.4759          | 19.28          | -9.90         | 9.38           | 69.54          | -60.16      | QP       |
| 6   | 13.5481         | 50.73          | -9.50         | 41.23          | 69.54          | -28.31      | QP       |

Remark:

- 1). X axis / Y axis/ Z axis were tested,report only recorded the worst result of X axis..
- 2). Margin=Reading level + Factor- Limit



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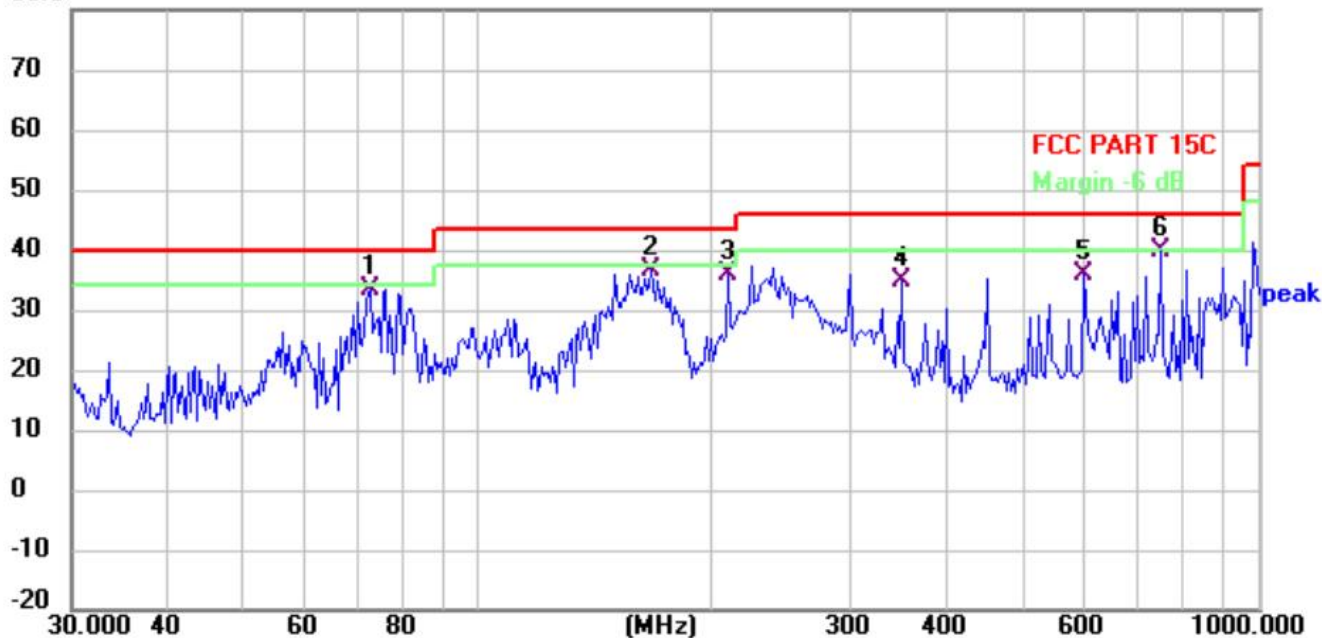


|               |         |                |       |
|---------------|---------|----------------|-------|
| Temperature   | 26.4°C  | Humidity       | 54.2% |
| Test Engineer | Jay Luo | Configurations | NFC   |

**30MHz ~ 1GHz**

Horizontal:

80.0 dBuV/m



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 72.720          | 54.14          | -20.85        | 33.29          | 40.00          | -6.71       | QP       |
| 2   | 166.638         | 57.83          | -21.11        | 36.72          | 43.50          | -6.78       | QP       |
| 3   | 208.658         | 55.05          | -19.05        | 36.00          | 43.50          | -7.50       | QP       |
| 4   | 348.514         | 49.94          | -15.11        | 34.83          | 46.00          | -11.17      | QP       |
| 5   | 598.707         | 46.60          | -10.87        | 35.73          | 46.00          | -10.27      | QP       |
| 6 * | 749.676         | 49.33          | -9.49         | 39.84          | 46.00          | -6.16       | QP       |



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Vertical:



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 40.017          | 50.37          | -17.72        | 32.65          | 40.00          | -7.35       | QP       |
| 2 * | 75.321          | 55.07          | -21.09        | 33.98          | 40.00          | -6.02       | QP       |
| 3   | 80.804          | 54.66          | -21.38        | 33.28          | 40.00          | -6.72       | QP       |
| 4   | 148.917         | 58.41          | -21.29        | 37.12          | 43.50          | -6.38       | QP       |
| 5   | 208.658         | 56.35          | -19.05        | 37.30          | 43.50          | -6.20       | QP       |
| 6   | 448.836         | 50.30          | -13.53        | 36.77          | 46.00          | -9.23       | QP       |

Note:

Pre-scan all modes and recorded the worst case results in this report.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Factor + Read Level = Level.

Margin=Level – Limit.



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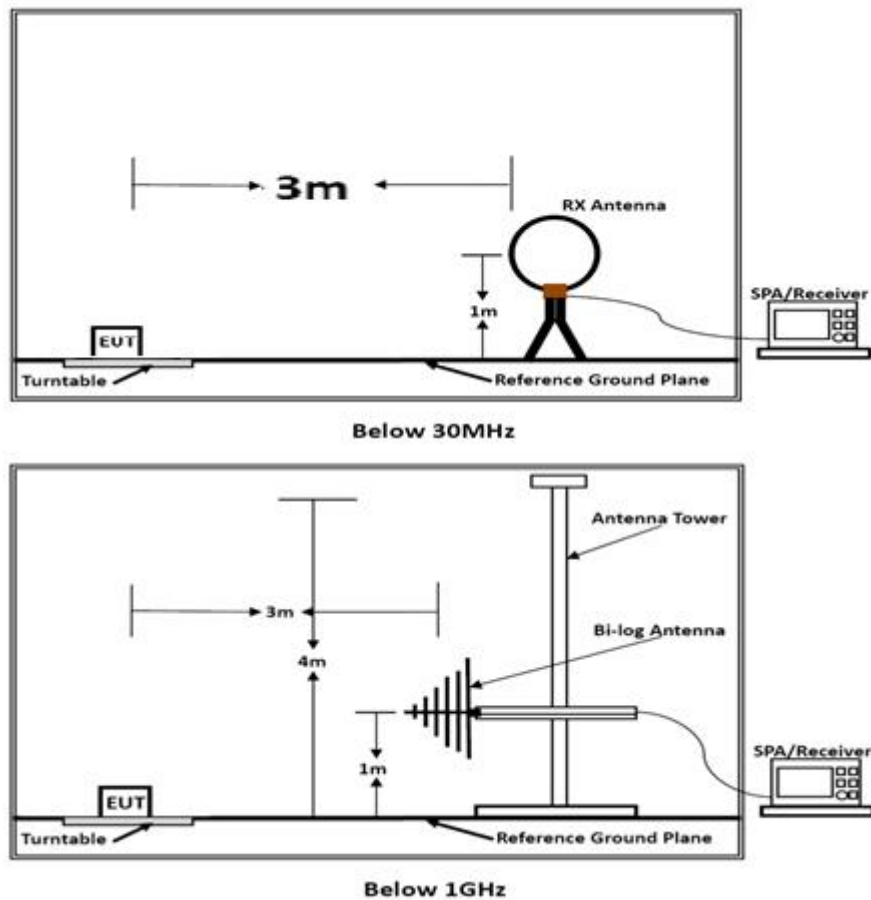
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## 5.2. Field Strength of Fundamental Emissions and Mask Measurement

### 5.2.1. Block Diagram of Test Setup



### 5.2.2. Field strength of fundamental emissions limit and Mask limit

The field strength of fundamental emissions shall not exceed 15848 microvolts/meter at 30 meters. The emissions limit in this paragraph is based on measurement instrumentation employing a QP detector.

| Frequencies (MHz)  | Field Strength (microvolts/meter) | Field Strength (dB $\mu$ V/m) at 10m | Field Strength (dB $\mu$ V/m) at 3m |
|--------------------|-----------------------------------|--------------------------------------|-------------------------------------|
| 13.553 ~ 13.567MHz | 15848 at 30m                      | 103.08 (QP)                          | 124 (QP)                            |

Mask Limit:

| Frequency (MHz) | Limit (dB $\mu$ V/m) | Distance (m) |
|-----------------|----------------------|--------------|
| 1.705-13.110    | 69.5                 | 3            |
| 13.110-13.410   | 80.5                 | 3            |
| 13.410-13.553   | 90.5                 | 3            |
| 13.553-13.567   | 124.0                | 3            |
| 13.567-13.710   | 90.5                 | 3            |
| 13.710-14.010   | 80.5                 | 3            |
| 14.010-30.000   | 69.5                 | 3            |



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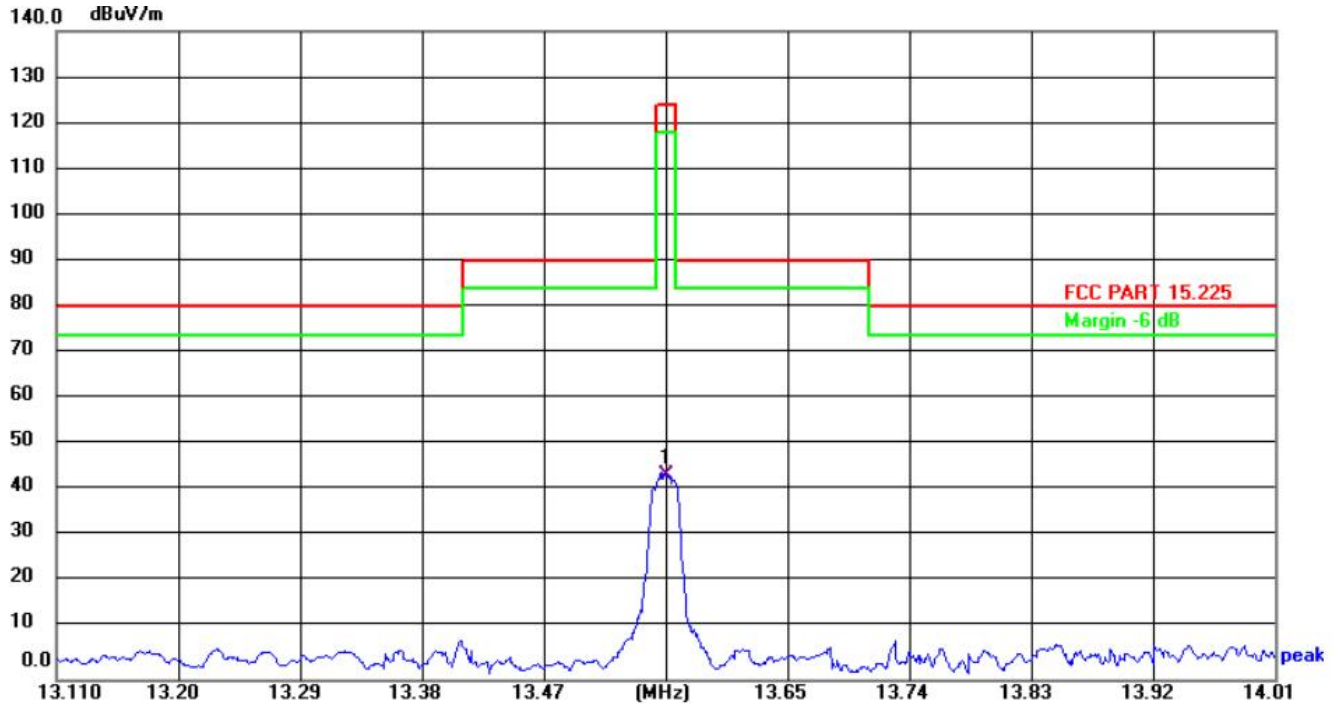
## 5.2.3. Test Results

|               |         |                |       |
|---------------|---------|----------------|-------|
| Temperature   | 23.7°C  | Humidity       | 52.6% |
| Test Engineer | Jay Luo | Configurations | NFC   |

PASS.

The test data please refer to following page:

## X axis



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 13.5600         | 53.87          | -9.50         | 44.37          | 124.00         | -79.63      | QP       |

\*Note: Factor= Antenna Factor + Cable Loss

Measured= Reading + Factor, Margin= Measured - Limit

Emission level (dBμV/m) = 20 log Emission level (μV/m).

Measured distance is 3m.

All emissions emit from non-NFC function of digital unintentional emissions. All NFC's spurious emissions are below 20dB of limits.

X axis / Y axis/ Z axis were tested,report only recorded the worst result of X axis.



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## 6. BANDWIDTH OF THE OPERATING FREQUENCY

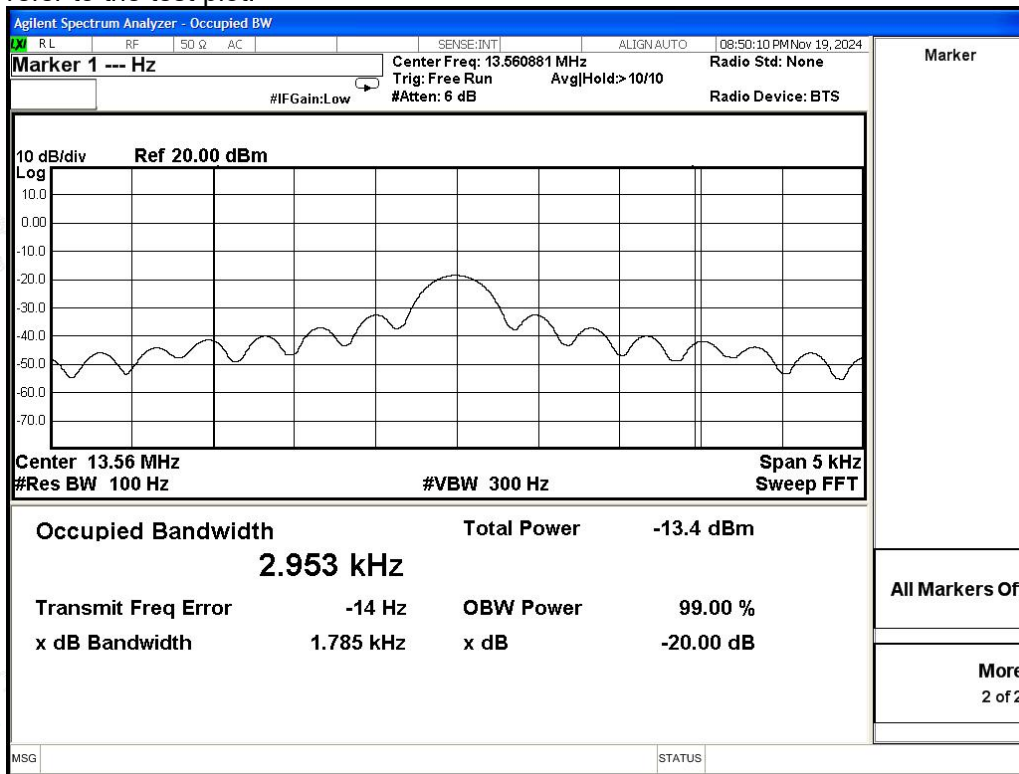
### 6.1. Standard Applicable

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band (13.553 ~ 13.567MHz).

### 6.2. Test Result

|                         |                      |
|-------------------------|----------------------|
| EUT                     | LIB-232              |
| RBW                     | 100Hz                |
| VBW                     | 300Hz                |
| SPAN                    | 5KHz                 |
| Carrier Frequency (MHz) | 20dB Bandwidth (KHz) |
| 13.56                   | 1.785                |

Please refer to the test plot:



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## 7. FREQUENCY STABILITY MEASUREMENT

### 7.1 Standard Applicable

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a full charged battery.

### 7.2 Test Result

#### Voltage vs. Frequency Stability

| Voltage(V) | Measurement Frequency (MHz) | Deviation (KHz) | Deviation (ppm) | Limit (ppm) |
|------------|-----------------------------|-----------------|-----------------|-------------|
| VN         | 13.56036                    | 0.36            | 26.44           | 100         |
| VL         | 13.56033                    | 0.33            | 24.46           | 100         |
| VH         | 13.56033                    | 0.33            | 24.45           | 100         |

#### Temperature vs. Frequency Stability

| Temperature (°C) | Measurement Frequency (MHz) | Deviation (KHz) | Deviation (ppm) | Limit (ppm) |
|------------------|-----------------------------|-----------------|-----------------|-------------|
| -20              | 13.56027                    | 0.27            | 20.12           | 100         |
| -10              | 13.56029                    | 0.29            | 21.32           | 100         |
| 0                | 13.56024                    | 0.24            | 17.38           | 100         |
| 10               | 13.56042                    | 0.42            | 30.80           | 100         |
| 20               | 13.56045                    | 0.45            | 33.44           | 100         |
| 30               | 13.56037                    | 0.37            | 27.63           | 100         |
| 40               | 13.56038                    | 0.38            | 27.84           | 100         |
| 50               | 13.56025                    | 0.25            | 18.68           | 100         |



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## 8. LINE CONDUCTED EMISSIONS

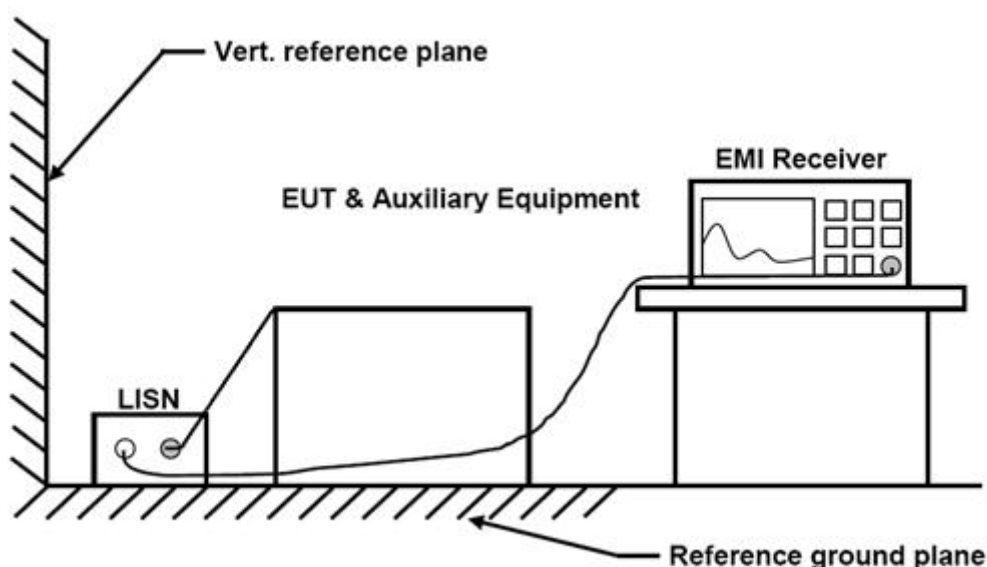
### 8.1. Standard Applicable

According to §15.207(a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

| Frequency Range (MHz) | Limits (dBμV) |          |
|-----------------------|---------------|----------|
|                       | Quasi-peak    | Average  |
| 0.15 to 0.50          | 66 to 56      | 56 to 46 |
| 0.50 to 5             | 56            | 46       |
| 5 to 30               | 60            | 50       |

\* Decreasing linearly with the logarithm of the frequency

### 8.2. Block Diagram of Test Setup



### 8.3 Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dB}\mu\text{V)} = RA \text{ (dB}\mu\text{V)} + PL \text{ (dB)} + CL \text{ (dB)}$$

|                                  |  |
|----------------------------------|--|
| Where CD = Conducted Disturbance | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude           | PL = 10 dB Pulse Limiter Factor            |

### 8.4. Test Results

#### PASS.

|               |         |                |       |
|---------------|---------|----------------|-------|
| Temperature   | 22.5°C  | Humidity       | 53.7% |
| Test Engineer | Jay Luo | Configurations | NFC   |

The test data please refer to following page.



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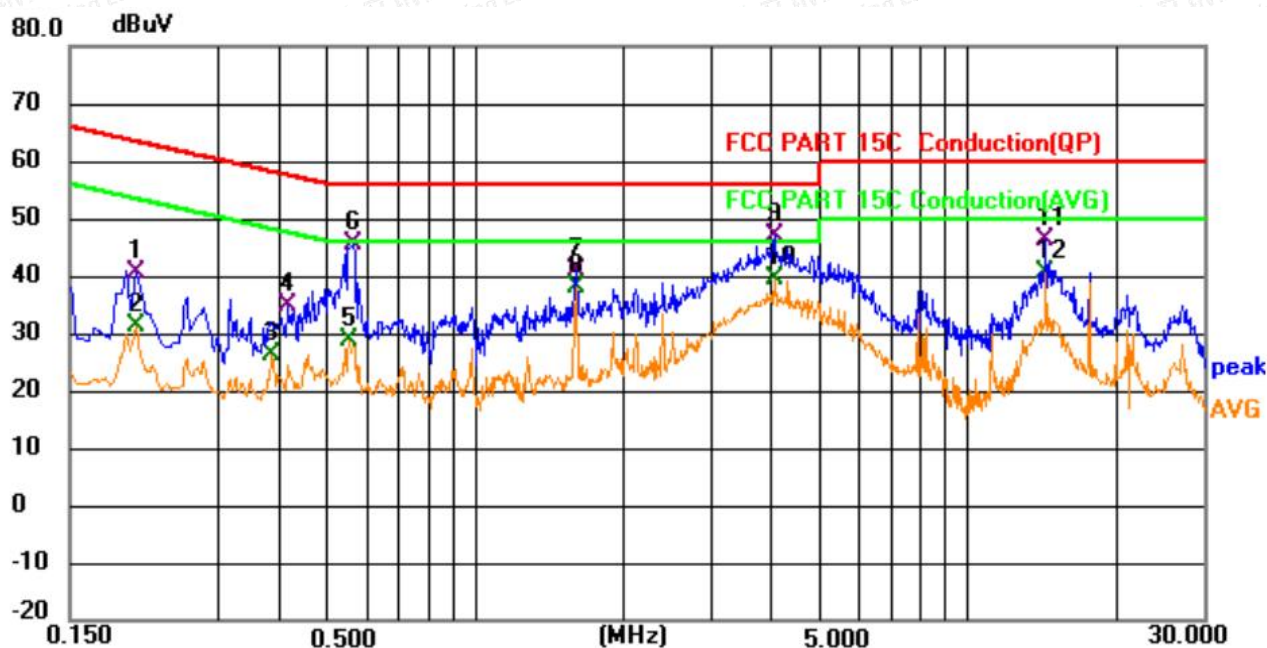
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**AC Conducted Emission @ AC 120V/60Hz (worst case)**

Line



| No. | Mk. | Freq.  | Reading | Correct | Measure- | Limit | Margin |          |         |
|-----|-----|--------|---------|---------|----------|-------|--------|----------|---------|
|     |     | MHz    | Level   | Factor  | ment     |       |        | Detector | Comment |
|     |     |        | dBuV    | dB      | dBuV     | dBuV  | dB     |          |         |
| 1   |     | 0.204  | 20.83   | 19.66   | 40.49    | 63.45 | -22.96 | QP       |         |
| 2   |     | 0.204  | 11.66   | 19.66   | 31.32    | 53.45 | -22.13 | AVG      |         |
| 3   |     | 0.384  | 6.29    | 19.98   | 26.27    | 48.19 | -21.92 | AVG      |         |
| 4   |     | 0.415  | 14.90   | 20.01   | 34.91    | 57.55 | -22.64 | QP       |         |
| 5   |     | 0.555  | 9.15    | 19.67   | 28.82    | 46.00 | -17.18 | AVG      |         |
| 6   |     | 0.564  | 25.84   | 19.64   | 45.48    | 56.00 | -10.52 | QP       |         |
| 7   |     | 1.599  | 21.97   | 19.02   | 40.99    | 56.00 | -15.01 | QP       |         |
| 8   |     | 1.599  | 19.18   | 19.02   | 38.20    | 46.00 | -7.80  | AVG      |         |
| 9   |     | 4.047  | 27.91   | 19.16   | 47.07    | 56.00 | -8.93  | QP       |         |
| 10  | *   | 4.047  | 20.20   | 19.16   | 39.36    | 46.00 | -6.64  | AVG      |         |
| 11  |     | 14.397 | 26.23   | 19.90   | 46.13    | 60.00 | -13.87 | QP       |         |
| 12  |     | 14.397 | 20.55   | 19.90   | 40.45    | 50.00 | -9.55  | AVG      |         |



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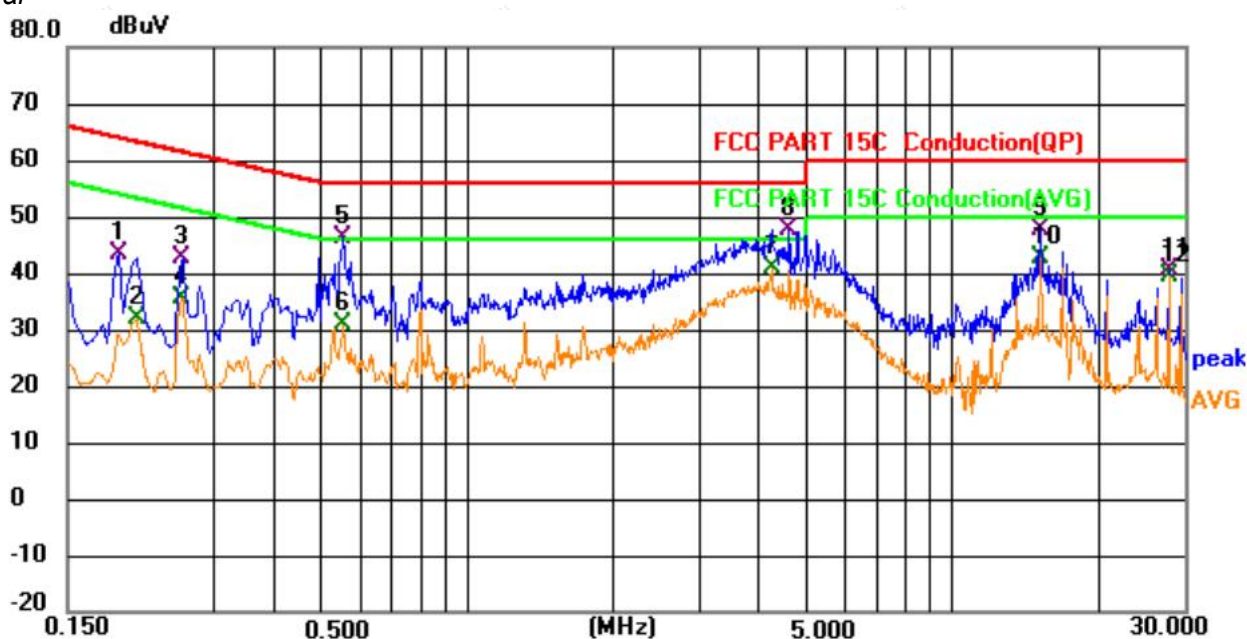
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Neutral



| No. | Mk. | Freq.  | Reading | Correct | Measure- | Limit | Margin |          |         |
|-----|-----|--------|---------|---------|----------|-------|--------|----------|---------|
|     |     | MHz    | Level   | Factor  | ment     |       |        | Detector | Comment |
|     |     |        | dBuV    | dB      | dBuV     | dBuV  | dB     |          |         |
| 1   |     | 0.191  | 23.60   | 19.74   | 43.34    | 63.99 | -20.65 | QP       |         |
| 2   |     | 0.208  | 12.02   | 19.78   | 31.80    | 53.28 | -21.48 | AVG      |         |
| 3   |     | 0.258  | 22.99   | 19.78   | 42.77    | 61.50 | -18.73 | QP       |         |
| 4   |     | 0.258  | 15.92   | 19.78   | 35.70    | 51.50 | -15.80 | AVG      |         |
| 5   |     | 0.555  | 26.73   | 19.42   | 46.15    | 56.00 | -9.85  | QP       |         |
| 6   |     | 0.555  | 11.46   | 19.42   | 30.88    | 46.00 | -15.12 | AVG      |         |
| 7   | *   | 4.240  | 22.03   | 18.95   | 40.98    | 46.00 | -5.02  | AVG      |         |
| 8   |     | 4.605  | 28.95   | 18.89   | 47.84    | 56.00 | -8.16  | QP       |         |
| 9   |     | 15.198 | 27.81   | 19.71   | 47.52    | 60.00 | -12.48 | QP       |         |
| 10  |     | 15.198 | 22.99   | 19.71   | 42.70    | 50.00 | -7.30  | AVG      |         |
| 11  |     | 27.996 | 21.45   | 18.94   | 40.39    | 60.00 | -19.61 | QP       |         |
| 12  |     | 27.996 | 20.44   | 18.94   | 39.38    | 50.00 | -10.62 | AVG      |         |

Measurement = Reading + Correct, Margin = Measurement - Limit.

Correct Factor = Lisc Factor + Cable Factor + Insertion loss of Pulse Limiter



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## 9. ANTENNA REQUIREMENTS

### 9.1 Standard Applicable

According to antenna requirement of §15.203.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

### 9.2 Antenna Connected Construction

#### 9.2.1. Standard Applicable

According to § 15.203, 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.

#### 9.2.2. Antenna Connector Construction

The gains of antenna used for transmitting is 0dBi, and the antenna is PCB Antenna connect to PCB board and no consideration of replacement. Please see the antenna photo for details.

#### 9.2.3. Results: Compliance.



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## 10. LIST OF MEASURING EQUIPMENTS

| Item | Equipment                | Manufacturer   | Model No.   | Serial No.      | Cal Date   | Due Date   |
|------|--------------------------|----------------|-------------|-----------------|------------|------------|
| 1    | Power Meter              | R&S            | NRVS        | 100444          | 2024-06-06 | 2025-06-05 |
| 2    | Power Sensor             | R&S            | NRV-Z81     | 100458          | 2024-06-06 | 2025-06-05 |
| 3    | Power Sensor             | R&S            | NRV-Z32     | 10057           | 2024-06-06 | 2025-06-05 |
| 4    | Test Software            | Tonscend       | JS1120-2    | /               | N/A        | N/A        |
| 5    | RF Control Unit          | Tonscend       | JS0806-2    | N/A             | 2024-11-08 | 2025-11-07 |
| 6    | MXA Signal Analyzer      | Agilent        | N9020A      | MY50510140      | 2024-10-08 | 2025-10-07 |
| 7    | DC Power Supply          | Agilent        | E3642A      | N/A             | 2024-10-08 | 2025-10-07 |
| 8    | EMI Test Software        | AUDIX          | E3          | /               | N/A        | N/A        |
| 9    | 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M      | 03CH03-HY       | 2024-06-06 | 2025-06-05 |
| 10   | Positioning Controller   | Max-Full       | MF7802BS    | MF780208586     | N/A        | N/A        |
| 11   | Active Loop Antenna      | SCHWARZBECK    | FMZB 1519B  | 00005           | 2024-07-13 | 2027-07-12 |
| 12   | By-log Antenna           | SCHWARZBECK    | VULB9163    | 9163-470        | 2024-08-03 | 2027-08-02 |
| 13   | Horn Antenna             | SCHWARZBECK    | BBHA 9120D  | 9120D-1925      | 2024-07-13 | 2027-07-12 |
| 14   | Broadband Horn Antenna   | SCHWARZBECK    | BBHA 9170   | 791             | 2024-07-13 | 2027-07-12 |
| 15   | Broadband Preamplifier   | SCHWARZBECK    | BBV9719     | 9719-025        | 2024-07-30 | 2025-07-29 |
| 16   | EMI Test Receiver        | R&S            | ESR 7       | 101181          | 2024-06-06 | 2025-06-05 |
| 17   | RS SPECTRUM ANALYZER     | R&S            | FSP40       | 100503          | 2024-06-06 | 2025-06-05 |
| 18   | Low-frequency amplifier  | SchwarzZBECK   | BBV9745     | 00253           | 2024-10-08 | 2025-10-07 |
| 19   | High-frequency amplifier | JS Denki Pte   | PA0118-43   | JSPA21009       | 2024-10-08 | 2025-10-07 |
| 20   | 6dB Attenuator           | /              | 100W/6dB    | 1172040         | 2024-06-06 | 2025-06-05 |
| 21   | 3dB Attenuator           | /              | 2N-3dB      | /               | 2024-10-08 | 2025-10-07 |
| 22   | EMI Test Receiver        | R&S            | ESPI        | 101940          | 2024-06-06 | 2025-06-05 |
| 23   | Artificial Mains         | R&S            | ENV216      | 101288          | 2024-06-06 | 2025-06-05 |
| 24   | 10dB Attenuator          | SCHWARZBECK    | MTS-IMP-136 | 261115-001-0032 | 2024-06-06 | 2025-06-05 |
| 25   | EMI Test Software        | Farad          | EZ          | /               | N/A        | N/A        |
| 26   | Antenna Mast             | Max-Full       | MFA-515BSN  | 1308572         | N/A        | N/A        |
| 27   | Pulse Limiter            | R&S            | ESH3-Z2     | 102750-NB       | 2024-06-06 | 2025-06-05 |



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## 11. Test Setup Photographs of Eut

Please refer to separated files for Test Setup Photos of the EUT.

## 12. Exterior Photographs of the Eut

Please refer to separated files for Exterior Photos of the EUT.

## 13. Interior Photographs of the Eut

Please refer to separated files for Interior Photos of the EUT.

-----THE END OF REPORT-----



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