



FCC TEST REPORT

For

Shenzhen Huazhichuangxing Technology Co., LTD.

Remote Control Page Turner

Test Model: RCPT01

Additional Model No.: Please Refer to Page 6

Prepared for : Shenzhen Huazhichuangxing Technology Co., LTD.
Address : 502,Building 7,Factory Building,Baimenqian Industrial Zone, No. 215,
Bushu Road, Nanlong Community,Nanwan Street,Longgang
District,Shenzhen China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : March 27, 2024
Number of tested samples : 2
Sample No. : A240326006-1, A240326006-2
Serial number : Prototype
Date of Test : March 27, 2024 ~ April 10, 2024
Date of Report : April 11, 2024



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**FCC TEST REPORT**
FCC CFR 47 PART 15 C(15.231)**Report Reference No. : LCSA03114281EA**

Date of Issue..... : April 11, 2024

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, ChinaTesting Location/ Procedure..... : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name..... : Shenzhen Huazhichuangxing Technology Co., LTD.**Address..... : 502,Building 7,Factory Building,Baimenqian Industrial Zone, No.
215, Busha Road, Nanlong Community,Nanwan Street,Longgang
District,Shenzhen China**Test Specification**

Standard..... : FCC CFR 47 PART 15 Subpart C, ANSI C63.10-2013

Test Report Form No..... : LCSEMC-1.0

TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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Test Item Description..... : Remote Control Page Turner

Trade Mark..... : N/A

Test Model..... : RCPT01

Ratings..... : Input: DC 5V
DC 3.7V by Rechargeable Li-ion Battery, 200mAh/300mAhResult : **Positive****Compiled by:**

Jerry chu

Jerry Chu/ Administrator

Supervised by:

Cary Luo

Cary Luo/ Technique principal

Approved by:

Gavin Liang

Gavin Liang/ Manager



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**FCC -- TEST REPORT**

| | |
|---|--|
| Test Report No. : LCSA03114281EA | <u>April 11, 2024</u> Date of issue |
|---|--|

| | |
|--------------------------|---|
| EUT..... | : Remote Control Page Turner |
| Test Model..... | : RCPT01 |
| Applicant..... | : Shenzhen Huazhichuangxing Technology Co., LTD. |
| | 502,Building 7,Factory Building,Baimenqian Industrial Zone, No. |
| Address..... | : 215, Busha Road, Nanlong Community,Nanwan Street,Longgang District,Shenzhen China |
| Telephone..... | : / |
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| Manufacturer..... | : Shenzhen Huazhichuangxing Technology Co., LTD. |
| | 502,Building 7,Factory Building,Baimenqian Industrial Zone, No. |
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| Telephone..... | : / |
| Fax..... | : / |

| | |
|--------------------|-----------------|
| Test Result | Positive |
|--------------------|-----------------|

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 | April 11, 2024 | Initial Issue | -- |
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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

| | |
|----------------------------|---|
| EUT | : Remote Control Page Turner |
| Test Model | : RCPT01 |
| Additional Model No. | : RCPT02, RCPT03, RCPT04, RCPT05, RCPT06, RCPT07, RCPT08, RCPT09, RCPT10 |
| Model Declaration | : PCB board, structure and internal of these model(s) are the same, So no additional models were tested |
| Hardware version | : PLE-001 1 V1.3/PLE-001 3 V1.0 |
| Software version | : PLE-001-Main V1.0/SC9608-1.7.0-Q10-1.70A |
| Power Supply | : Input: DC 5V DC 3.7V by Rechargeable Li-ion Battery, 200mAh/300mAh |
| 433MHz Operation frequency | : 433.92MHz |
| Modulation Type | : ASK |
| Channel Number | : 1 |
| Antenna Type | : PCB Antenna |
| Antenna Gain | : 0dBi (Max) |





1.2. Objective

The primary objective of the manufacturer is compliance with Subpart C of Part 15 of FCC Rules for the radiated and conducted emissions of intentional radiator. Certification of these devices is required as a prerequisite to marketing as defined in Part 2 the FCC Rules Certification is a procedure where the manufacturer or a contracted laboratory makes measurements and submits the test data and technical information to the FCC. The FCC issues a grant of equipment authorization upon successful completion of their review of the submitted documents. Once the equipment authorization has been obtained, the label indicating compliance must be attached to all identical units, which are subsequently manufactured. Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product which may result in increased emissions should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different power supply, harnessing or I/O cable changes, etc.).

1.3. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

1.4. Support Equipment List

| Manufacturer | Description | Model | Serial Number | Certificate |
|---------------------------------------|---------------|--------------------|---------------|-------------|
| SHENZHEN TIANYIN ELECTRONICS CO., LTD | Power Adapter | TPA-46050200 UU | --- | FCC |

Note: Adapter is supplied by lab and only used test.

1.5. External I/O Port

| I/O Port Description | Quantity | Cable |
|----------------------|----------|-----------------------------|
| Type-C USB Port | 1 | USB Cable: 1.0m, unshielded |



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1.6. EUT Operation

The EUT was placed in a RF test mode for testing of the transmitter and in normal mode of operation for testing the digital circuitry and receiver.

1.7. Antenna System

The directional gains of antenna used for transmitting is 0dBi, and EUT uses an external antenna which is permanently attached.

1.8. Description of Test Facility

Site Description

EMC Lab. : 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.

1.9. Statement of The Measurement Uncertainty

ISO Guide 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level and were calculated in accordance with NAMAS document NIS 81.

| Test Item | Frequency Range | Uncertainty | Note |
|----------------------------|-----------------|-------------|------|
| Radiation Uncertainty | 9KHz~30MHz | ±3.10dB | (1) |
| | 30MHz~200MHz | ±2.96dB | (1) |
| | 200MHz~1000MHz | ±3.10dB | (1) |
| | 1GHz~26.5GH | ±4.20dB | (1) |
| Conduction Uncertainty | 150kHz~30MHz | ±1.63dB | (1) |
| Power disturbance | 30MHz~300MHz | ±1.60dB | (1) |
| Occupied Channel Bandwidth | 0.01MHz~26.5GHz | 5% | (1) |

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





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 normal operating mode. The TX frequency that was fixed which was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.209 and 15.231 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions(N/A)

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10 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 turn table, which is 0.8 m above ground plane and for below 1GHz and 1.5m for above 1GHz. 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 13.1.4.1 of ANSI C63.10

2.4. Instrument Calibration

All test equipment is regularly checked to ensure that performance is maintained in accordance with the manufacturer's specifications. All antennas are calibrated at regular intervals with respect to tuned half-wave dipoles. An exhibit of this report contains the list of test equipment used and calibration information.

2.5. Test Mode

The EUT has been tested under engineering mode. The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis). The worst case of X axis was reported.

A new battery supplied DC 3.7V power to the EUT for testing.

***Note: Using a temporary antenna connector for the EUT when conducted measurements are performed.



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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

N/A

3.3. Special Accessories

N/A

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.





4. SUMMARY OF TEST RESULTS

| Rules | Description of test | Result |
|----------------|------------------------|-----------|
| §15.203 | Antenna Requirement | Compliant |
| §15.205 | Restricted Band | Compliant |
| §15.209 | General Requirement | Compliant |
| §15.231 (b) | Radiated Emissions | Compliant |
| §15.231 (c) | 20dB Bandwidth Testing | Compliant |
| §15.231 (a)(1) | Deactivation Testing | Compliant |
| §15.231 | Duty cycle Factor | Compliant |
| §15.207 | Conducted Emissions | Compliant |

Note: All test modes were taken into consideration, but we only recorded the worst case in this report.



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5. TEST ITEMS AND RESULTS

5.1. Transmitter Deactivation Time

FCC 15.231 (a)

5.1.1. Limit

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

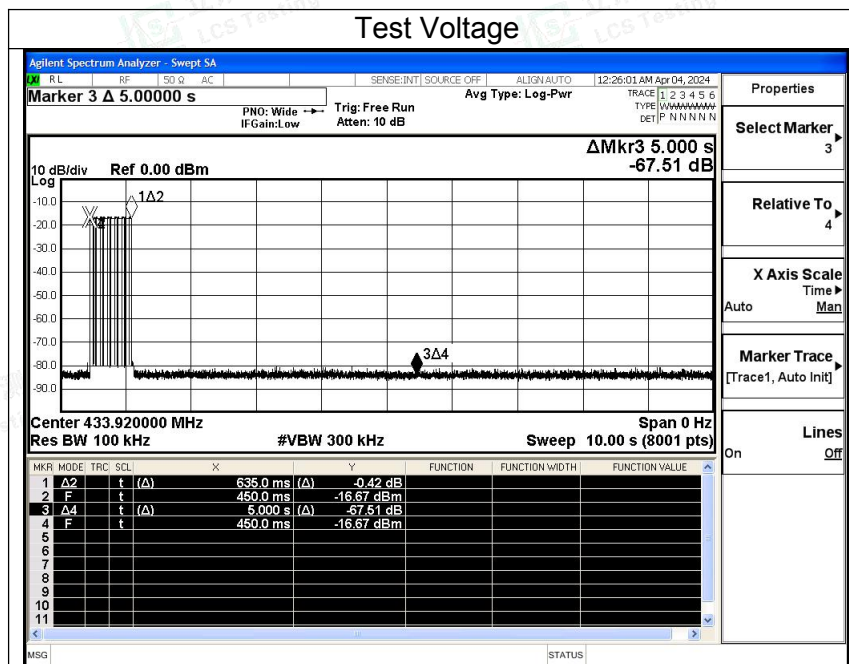
5.1.2. Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

5.1.3. Test Results

| | | | |
|---------------|------------|----------------|---------|
| Temperature | 23.5°C | Humidity | 52.2% |
| Test Engineer | Eason Zhou | Configurations | TX Mode |

| Frequency (MHz) | Activation Time (s) | Limit: not more than 5 seconds of being released (s) | Conclusion |
|-----------------|---------------------|--|------------|
| 433.92 | 0.635 | 5 | PASS |



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5.2. Transmitter Field Strength of Emissions

5.2.1. Limit

FCC §15.231 (b)

In addition to the provisions of § 15.205, the field strength of emissions from Intentional radiators operated under this section shall not exceed the following:

| Fundamental frequency (MHz) | Field Strength of Fundamental (microvolt/meter) | Field Strength of spurious emissions (microvolt/meter) |
|-----------------------------|---|--|
| 40.66-40.70 | 2,250 | 225 |
| 70-130 | 1,250 | 125 |
| 130-174 | 1,250 to 3,370 | 125 to 375 |
| 174-260 | 3,750 | 375 |
| 260-470 | 3,750 to 12,500 | 375 to 1,250 |
| Above 470 | 12,500 | 1,250 |

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, $\mu\text{V/m}$ at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, $\mu\text{V/m}$ at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

§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 | 608-614 | 4.5-5.15 |
| 0.495-0.505 | 16.69475-16.68525 | 960-1240 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 1300-1427 | 7.25-7.75 |
| 4.125-4.128 | 25.525.67 | 1435-1626.5 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1645.5-1646.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1660-1710 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1718.8-1722.2 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 2200-2300 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2310-2390 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2483.5-2500 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2655-2900 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 3260-3267 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125167.17 | 3332-3339 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3345.8-3358 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3600-4400 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | | .(²) |
| 13.36-13.41 | 399.9-410 | | |

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

2. Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



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§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 72 MHz, 76 88 MHz, 174 216 MHz or 470 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

5.2.2. Measuring Instruments and Setting

Please refer to section 6 of equipments 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 | 10th carrier harmonic |
| RB / VB (Emission in restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average |
| RB / VB (Emission in non-restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average |

| Spectrum Parameter | Setting |
|------------------------|----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |





5.2.3. 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 1.5 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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3) Sequence of testing 1 GHz to 12.75 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 rotatable table with 1.5 m height is used.
- 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 is 1.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection 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 found antenna polarisation and turntable position of the premeasurement the software maximizes the peaks by rotating the turntable position (0° to 360°). This measurement is repeated for different EUT-table positions (0° to 150° in 30°-steps). This procedure is repeated for both antenna polarisations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and RMS detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, 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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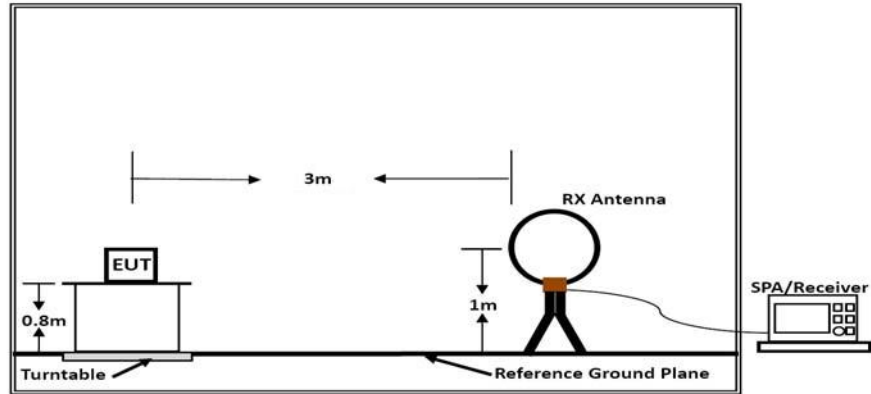
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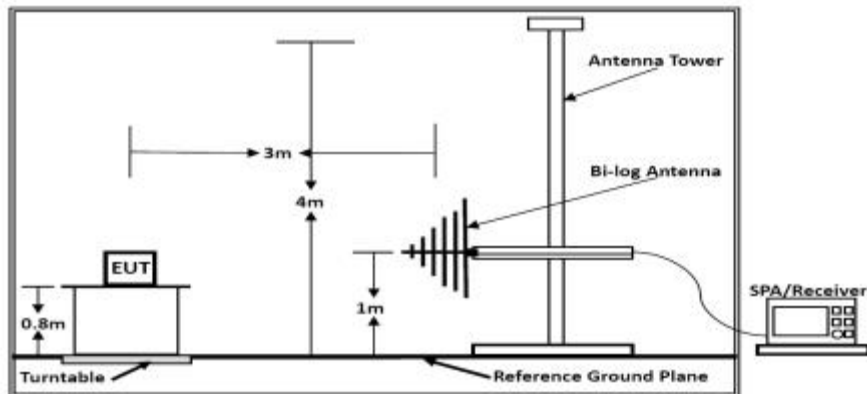
Scan code to check authenticity



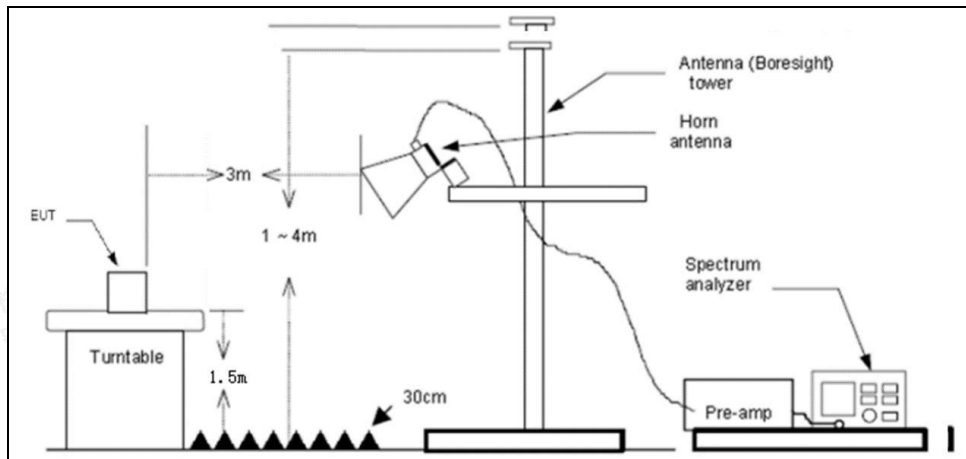
5.2.4 Block Diagram of Test Setup



Below 30MHz



Below 1GHz



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5.2.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.6. 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:

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

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

5.2.7. Results of Radiated Emissions (9 kHz~30MHz)

| | | | |
|---------------|------------|----------------|---------|
| Temperature | 23.8℃ | Humidity | 52.1% |
| Test Engineer | Eason Zhou | Configurations | TX Mode |

| Freq. (MHz) | Level (dBuV) | Over Limit (dB) | Over Limit (dBuV) | Remark |
|----------------|-----------------|--------------------|----------------------|----------|
| - | - | - | - | See Note |

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log$ (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

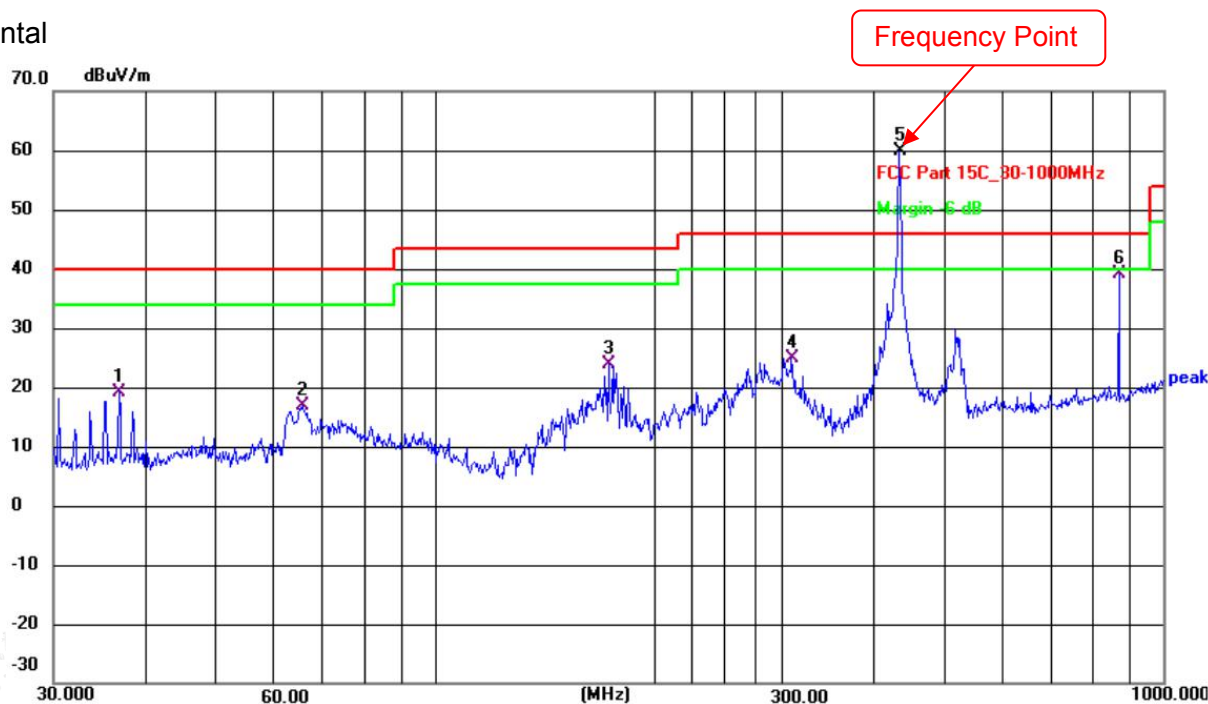




5.2.8. Results of Radiated Emissions (30MHz~1GHz)

| | | | |
|---------------|------------|----------------|---------|
| Temperature | 23.8℃ | Humidity | 52.1% |
| Test Engineer | Eason Zhou | Configurations | TX Mode |

Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 36.8953 | 36.74 | -17.69 | 19.05 | 40.00 | -20.95 | QP |
| 2 | 65.8031 | 36.10 | -19.21 | 16.89 | 40.00 | -23.11 | QP |
| 3 | 173.2051 | 43.05 | -19.26 | 23.79 | 43.50 | -19.71 | QP |
| 4 | 308.9126 | 39.91 | -15.12 | 24.79 | 46.00 | -21.21 | QP |
| 5 | 434.0651 | 73.71 | -13.81 | 59.90 | 46.00 | 13.90 | peak |
| 6 | 869.1302 | 47.81 | -8.75 | 39.06 | 46.00 | -6.94 | QP |

Fundamental and Harmonics Result

| Frequency (MHz) | Peak Level (dBuV/m) | AV Factor(dBμV/m) (see Section 5.4) | Average Level (dBuV/m) | Limit(dBμV/m) (average) | Limit(dBμV/m) (Peak) | Conclusion |
|-----------------|---------------------|-------------------------------------|------------------------|-------------------------|----------------------|------------|
| 434.07 | 59.90 | -3.89 | 56.01 | 80.83 | 100.83 | PASS |
| 869.13 | 39.06 | -3.89 | 35.17 | 60.83 | 80.83 | PASS |



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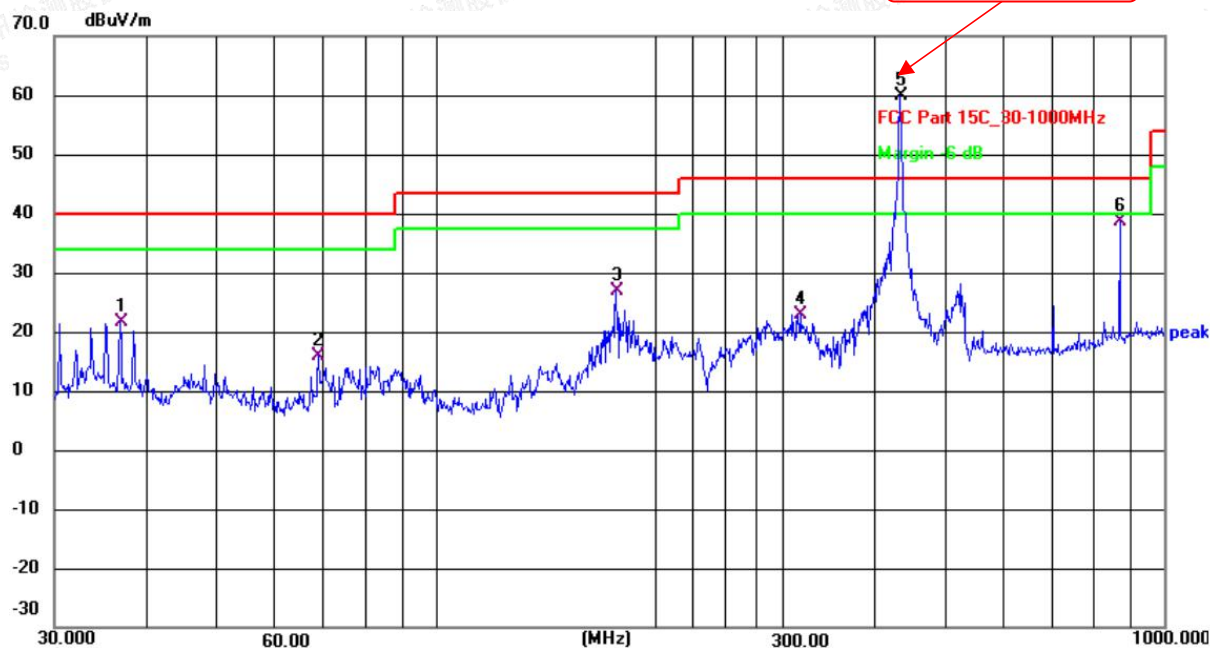
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Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 36.8953 | 39.40 | -17.69 | 21.71 | 40.00 | -18.29 | QP |
| 2 | 69.1140 | 35.33 | -19.41 | 15.92 | 40.00 | -24.08 | QP |
| 3 | 176.8878 | 45.90 | -18.95 | 26.95 | 43.50 | -16.55 | QP |
| 4 | 316.5889 | 37.48 | -14.66 | 22.82 | 46.00 | -23.18 | QP |
| 5 | 434.0650 | 74.43 | -14.44 | 59.99 | 46.00 | 13.99 | peak |
| 6 | 869.1302 | 47.30 | -8.75 | 38.55 | 46.00 | -7.45 | QP |

Fundamental and Harmonics Result

| Frequency (MHz) | Peak Level (dBμV/m) | AV Factor(dBμV/m) (see Section 5.4) | Average Level (dBμV/m) | Limit(dBμV/m) (average) | Limit(dBμV/m) (Peak) | Conclusion |
|-----------------|---------------------|-------------------------------------|------------------------|-------------------------|----------------------|------------|
| 434.07 | 59.99 | -3.89 | 56.1 | 80.83 | 100.83 | PASS |
| 869.13 | 38.55 | -3.89 | 34.66 | 60.83 | 80.83 | PASS |

Note:

1. All reading are Quasi-peak values.
2. Measured = Reading + Antenna Factor + Cable Loss
3. The emission that are 20dB below the official limit are not reported
4. * - means fundamental frequency
5. ** - means harmonic frequency
6. AV values = Peak values + Duty cycle factor



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5.2.9. Results of Radiated Emissions (Above 1GHz)

| | | | |
|---------------|------------|----------------|---------|
| Temperature | 23.5℃ | Humidity | 52.2% |
| Test Engineer | Eason Zhou | Configurations | TX Mode |

| Peak Value: | | | | |
|----------------|----------------|---------------------|-----------------|--------------|
| Frequency(MHz) | Level (dBuV/m) | Limit Line (dBuV/m) | Over limit (dB) | Polarization |
| 1300.78 | 47.51 | 74.00 | -26.49 | Horizontal |
| 1738.54 | 39.31 | 74.00 | -34.69 | Horizontal |
| 2170.32 | 37.63 | 74.00 | -36.37 | Vertical |
| 1301.03 | 44.02 | 74.00 | -29.98 | Vertical |

| Average Value: | | | | | | |
|-----------------|---------------------|----------------|------------------------|---------------------|-----------------|--------------|
| Frequency (MHz) | Peak Level (dBuV/m) | average factor | Average value (dBuV/m) | Limit Line (dBuV/m) | Over limit (dB) | Polarization |
| 1300.78 | 47.51 | -3.89 | 43.62 | 54.00 | -10.38 | Horizontal |
| 1738.54 | 39.31 | -3.89 | 35.42 | 54.00 | -18.58 | Horizontal |
| 2170.32 | 37.63 | -3.89 | 33.74 | 54.00 | -20.26 | Vertical |
| 1301.03 | 44.02 | -3.89 | 40.13 | 54.00 | -13.87 | Vertical |

1. Measuring frequencies from 9k~10th harmonic (ex. 5GHz), No emission found between lowest internal used/generated frequency to 30MHz.
2. Radiated emissions measured in frequency range from 9k~10th harmonic (ex. 5GHz) were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Average value=peak reading level + average factor.





5.3. 20dB Bandwidth Emissions

FCC 15.231 (c)

5.3.1. Limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

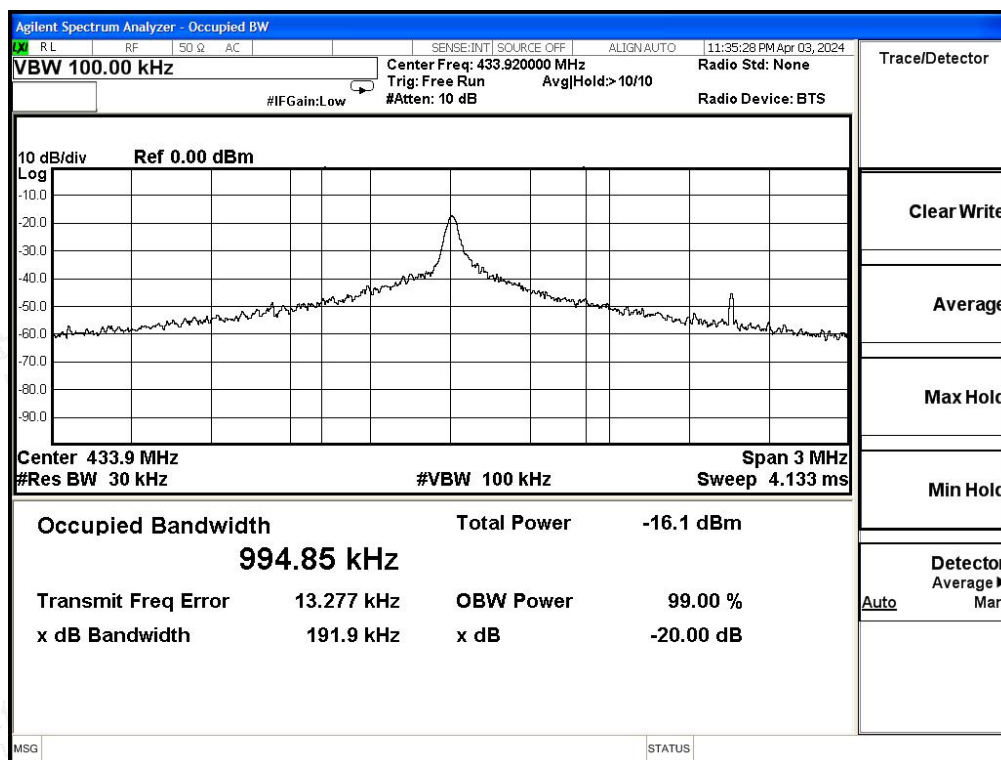
5.3.2. Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

5.3.3. Test Data

| | | | |
|---------------|------------|----------------|---------|
| Temperature | 23.5°C | Humidity | 52.2% |
| Test Engineer | Eason Zhou | Configurations | TX Mode |

| Center Frequency of operation MHz | Maximum allowed bandwidth kHz | Measured 20dB bandwidth kHz | Result |
|-----------------------------------|--|-----------------------------|--------|
| 433.92 | 1084.8 | 191.9 | PASS |
| Maximum allowed bandwidth: | <input checked="" type="checkbox"/> 0.25% of the centre operating frequency <input type="checkbox"/> 0.5% of the centre operating frequency | | |
| RBW: | <input type="checkbox"/> 10kHz <input type="checkbox"/> 100kHz <input checked="" type="checkbox"/> other kHz | | |
| VBW: | <input type="checkbox"/> 30kHz <input type="checkbox"/> 300kHz <input checked="" type="checkbox"/> other kHz | | |



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5.4. Duty cycle

5.4.1. Limit

No dedicated limit specified in the Rules.

5.4.2. Test Procedure

5.4.2.1. Place the EUT on the table and set it in transmitting mode.

5.4.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

5.4.2.3. Set centre frequency of spectrum analyzer=operating frequency.

5.4.2.4. Set the spectrum analyzer as RBW=1.0 MHz, VBW=1.0 MHz, Span=0Hz, Adjust Sweep=Auto.

5.4.2.5. Repeat above procedures until all frequency measured was complete.

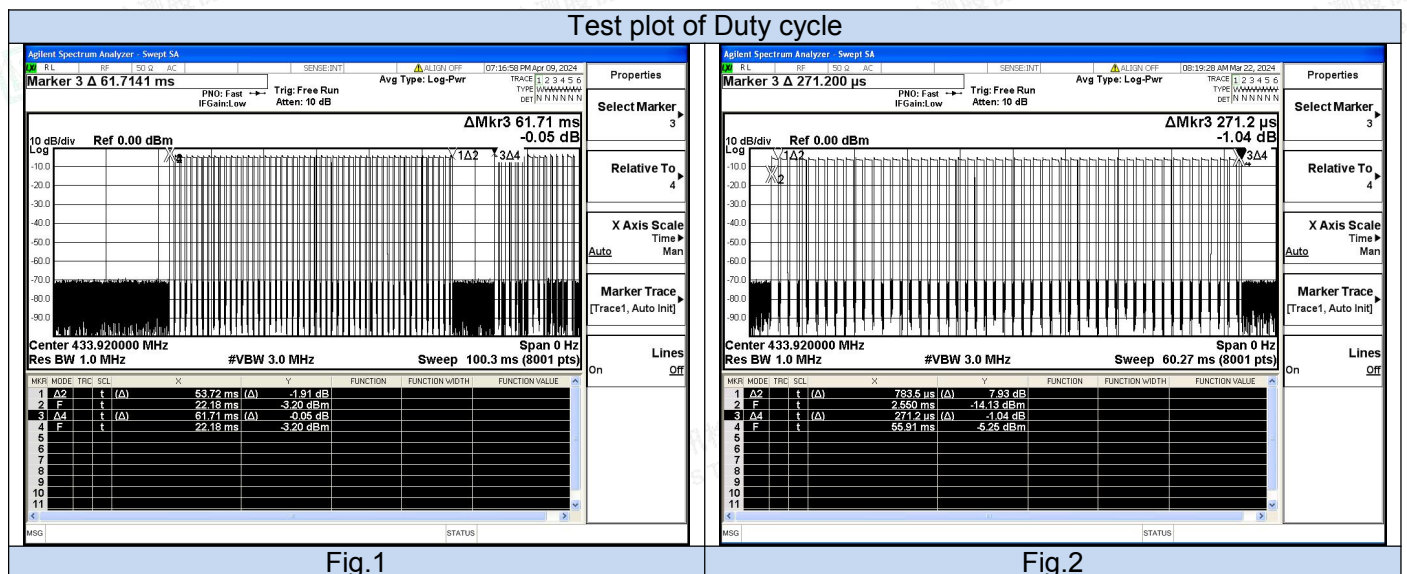
5.4.3. Test Data

$Ton = 0.7835 \times 50 + 0.2712 \times 1(\text{ms}) = 39.4462(\text{ms})$

$Tp = 61.71(\text{ms})$

The duty cycle = $39.4462 / 61.71 = 63.92\%$

Average Correction Factory = $20\log(Ton/Tp) = 20\log(0.6392) = -3.89\text{dB}$



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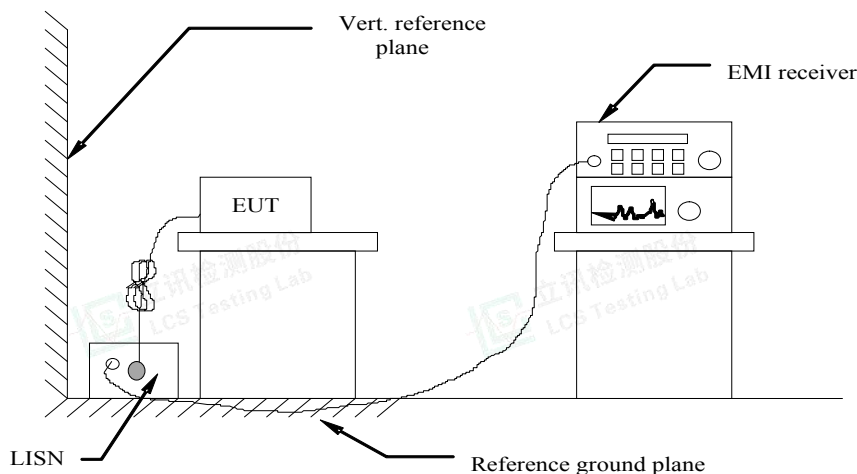
5.5. Power line conducted emissions

5.5.1 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 is 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 |

5.5.2 Block Diagram of Test Setup



5.5.3 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 |

5.5.4 Test Results

| | | | |
|---------------|------------|----------------|-------|
| Temperature | 24.4°C | Humidity | 53.0% |
| Test Engineer | Eason Zhou | Configurations | TX |

PASS.

The test data please refer to following page.



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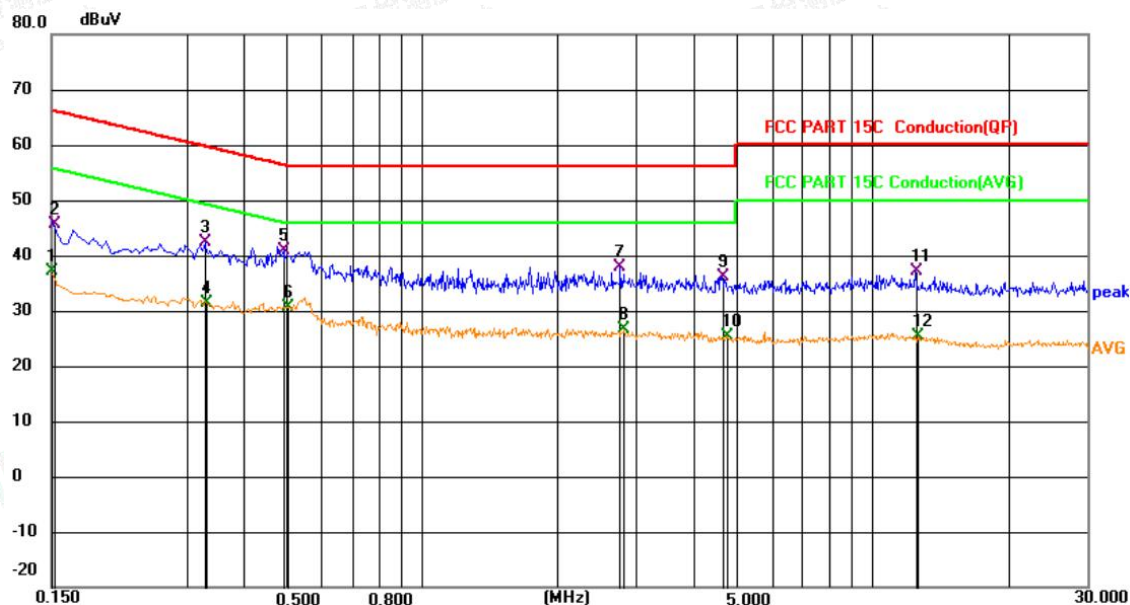
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Line



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | | |
|-----|-----|---------|---------|---------|----------|-------|--------|----------|---------|
| | | MHz | Level | Factor | ment | | | Detector | Comment |
| | | | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.1500 | 16.93 | 20.22 | 37.15 | 56.00 | -18.85 | AVG | |
| 2 | | 0.1515 | 25.42 | 20.22 | 45.64 | 65.92 | -20.28 | QP | |
| 3 | | 0.3301 | 22.08 | 20.19 | 42.27 | 59.45 | -17.18 | QP | |
| 4 | | 0.3320 | 11.19 | 20.20 | 31.39 | 49.40 | -18.01 | AVG | |
| 5 | * | 0.4921 | 20.68 | 20.21 | 40.89 | 56.13 | -15.24 | QP | |
| 6 | | 0.5056 | 10.50 | 20.21 | 30.71 | 46.00 | -15.29 | AVG | |
| 7 | | 2.7646 | 17.62 | 20.30 | 37.92 | 56.00 | -18.08 | QP | |
| 8 | | 2.8231 | 6.22 | 20.31 | 26.53 | 46.00 | -19.47 | AVG | |
| 9 | | 4.6411 | 16.05 | 19.97 | 36.02 | 56.00 | -19.98 | QP | |
| 10 | | 4.7536 | 5.38 | 19.95 | 25.33 | 46.00 | -20.67 | AVG | |
| 11 | | 12.5071 | 16.69 | 20.40 | 37.09 | 60.00 | -22.91 | QP | |
| 12 | | 12.6106 | 4.94 | 20.40 | 25.34 | 50.00 | -24.66 | AVG | |



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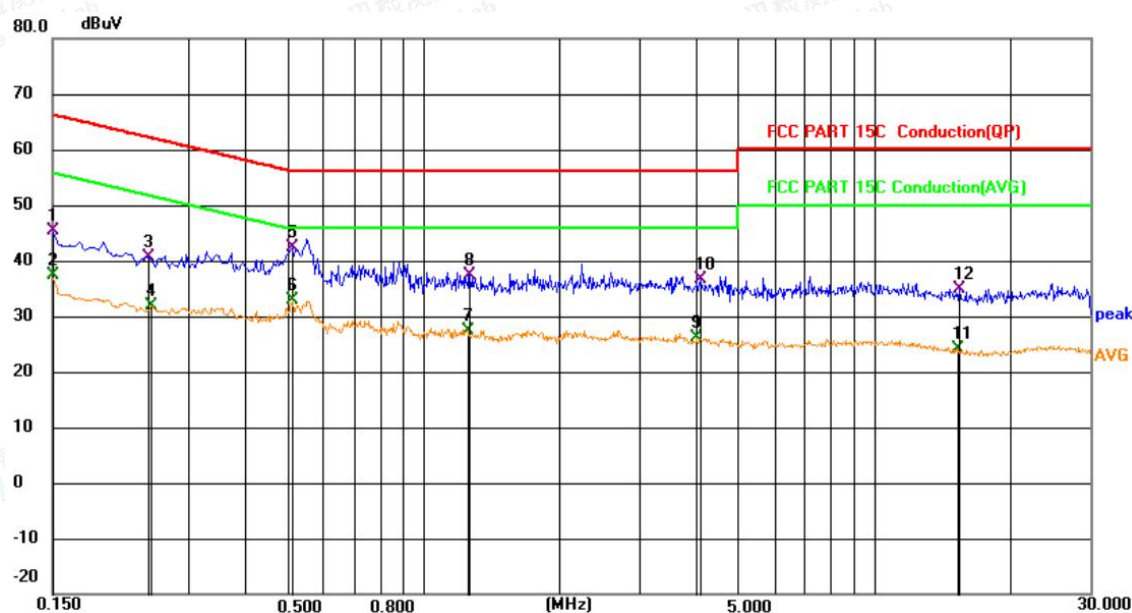
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Neutral



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | | |
|-----|-----|---------|---------|---------|----------|-------|--------|----------|---------|
| | | MHz | Level | Factor | ment | | | Detector | Comment |
| | | | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.1500 | 25.56 | 19.94 | 45.50 | 66.00 | -20.50 | QP | |
| 2 | | 0.1500 | 17.40 | 19.94 | 37.34 | 56.00 | -18.66 | AVG | |
| 3 | | 0.2446 | 20.69 | 20.04 | 40.73 | 61.94 | -21.21 | QP | |
| 4 | | 0.2491 | 11.88 | 20.04 | 31.92 | 51.79 | -19.87 | AVG | |
| 5 | | 0.5101 | 22.53 | 19.75 | 42.28 | 56.00 | -13.72 | QP | |
| 6 | * | 0.5101 | 13.18 | 19.75 | 32.93 | 46.00 | -13.07 | AVG | |
| 7 | | 1.2436 | 7.37 | 20.12 | 27.49 | 46.00 | -18.51 | AVG | |
| 8 | | 1.2571 | 17.28 | 20.13 | 37.41 | 56.00 | -18.59 | QP | |
| 9 | | 4.0426 | 6.11 | 20.03 | 26.14 | 46.00 | -19.86 | AVG | |
| 10 | | 4.1281 | 16.70 | 20.02 | 36.72 | 56.00 | -19.28 | QP | |
| 11 | | 15.3331 | 4.10 | 19.97 | 24.07 | 50.00 | -25.93 | AVG | |
| 12 | | 15.4096 | 15.01 | 19.98 | 34.99 | 60.00 | -25.01 | QP | |

***Note: 1).Pre-scan all modes and recorded the worst case results in this report.

2). Measurement = Reading + Correct Factor, Margin = Measurement – Limit,
Correct Factor=Lisn Factor+Cable Factor.



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5.6. Antenna Requirement

FCC 15.203

5.6.1. Standard Applicable

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.

This EUT uses an integral antenna which is permanently attached.

5.6.2. Result

Compliant.

The antenna used for transmitting is permanently attached and no consideration of replacement. Please see EUT photo for details.



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6. LIST OF MEASURING EQUIPMENTS

| Item | Equipment | Manufacturer | Model No. | Serial No. | Cal Date | Due Date |
|------|--------------------------------|-------------------|-------------|-----------------|------------|------------|
| 1 | MXA Signal Analyzer | Agilent | N9020A | MY49100060 | 2023-10-18 | 2024-10-17 |
| 2 | DC Power Supply | Agilent | E3642A | N/A | 2023-10-18 | 2024-10-17 |
| 3 | Temperature & Humidity Chamber | GUANGZHOU GOGNWEN | GDS-100 | 70932 | 2023-10-05 | 2024-10-04 |
| 4 | EMI Test Software | AUDIX | E3 | / | N/A | N/A |
| 5 | 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M | 03CH03-HY | 2023-06-09 | 2024-06-08 |
| 6 | Positioning Controller | Max-Full | MF7802BS | MF780208586 | N/A | N/A |
| 7 | Active Loop Antenna | SCHWARZBECK | FMZB 1519B | 00005 | 2021-08-29 | 2024-08-28 |
| 8 | By-log Antenna | SCHWARZBECK | VULB9163 | 9163-470 | 2021-09-12 | 2024-09-11 |
| 9 | Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-1925 | 2021-09-05 | 2024-09-04 |
| 10 | EMI Test Receiver | R&S | ESR 7 | 101181 | 2023-08-15 | 2024-08-14 |
| 11 | RS SPECTRUM ANALYZER | R&S | FSP40 | 100503 | 2023-07-17 | 2024-07-16 |
| 12 | Low-frequency amplifier | SchwarzZBECK | BBV9745 | 00253 | 2023-10-18 | 2024-10-17 |
| 13 | High-frequency amplifier | JS Denki Pte | PA0118-43 | JSPA21009 | 2023-10-18 | 2024-10-17 |
| 14 | EMI Test Receiver | R&S | ESPI | 101940 | 2023-08-15 | 2024-08-14 |
| 15 | Artificial Mains | R&S | ENV216 | 101288 | 2023-06-09 | 2024-06-08 |
| 16 | 10dB Attenuator | SCHWARZBECK | MTS-IMP-136 | 261115-001-0032 | 2023-06-09 | 2024-06-08 |
| 17 | EMI Test Software | Farad | EZ | / | N/A | N/A |
| 18 | Broadband Horn Antenna | SCHWARZBECK | BBHA 9170 | 791 | 2021-08-29 | 2024-08-28 |
| 19 | Broadband Preamplifier | SCHWARZBECK | BBV9719 | 9719-025 | 2021-08-29 | 2024-08-28 |
| 20 | Antenna Mast | Max-Full D | MFA-515BSN | MFA-515BSN | N/A | N/A |

Note: N/A --- No calibration requirement.



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7. TEST SETUP PHOTOGRAPHS

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

8. EXTERIOR PHOTOGRAPHS OF THE EUT

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

9. INTERIOR PHOTOGRAPHS OF THE EUT

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

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

