

|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                          |                                                                                         |                           |                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------|--------------------------------|
| <b>Prüfbericht-Nr.:</b><br>Test report no.:                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>CN24NKRJ 001</b>                                                                                                                                                      | <b>Auftrags-Nr.:</b><br>Order no.:                                                      | <b>168482522</b>          | Seite 1 von 17<br>Page 1 of 17 |
| <b>Kunden-Referenz-Nr.:</b><br>Client reference no.:                                                                                                                                                                                                                                                                                                                                                                                                          | N/A                                                                                                                                                                      | <b>Auftragsdatum:</b><br>Order date:                                                    | 2024-04-30                |                                |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>FORYOU MULTIMEDIA ELECTRONICS CO., LTD</b><br>Plant 4, Area B, Foryou Ind. Zone, No. 1, North Shangxia Road, DongjiangHi-Tech Industry Park Huizhou city 516005 China |                                                                                         |                           |                                |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                                                                                          | WIRELESS CHARGER                                                                                                                                                         |                                                                                         |                           |                                |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type no.:                                                                                                                                                                                                                                                                                                                                                                                                   | W2BSTLAV1<br>(Trademark: ADAYO)                                                                                                                                          |                                                                                         |                           |                                |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                                                                                     | Test Report                                                                                                                                                              |                                                                                         |                           |                                |
| <b>Prüfgrundlage:</b><br>Test specification:                                                                                                                                                                                                                                                                                                                                                                                                                  | CFR47 FCC Part 15: Subpart C Section 15.215<br>CFR47 FCC Part 15: Subpart C Section 15.209                                                                               |                                                                                         |                           |                                |
| <b>Wareneingangsdatum:</b><br>Date of sample receipt:                                                                                                                                                                                                                                                                                                                                                                                                         | 2024-07-28                                                                                                                                                               | Please refer to Photo Document                                                          |                           |                                |
| <b>Prüfmuster-Nr.:</b><br>Test sample no.:                                                                                                                                                                                                                                                                                                                                                                                                                    | A003781634-001~002                                                                                                                                                       |                                                                                         |                           |                                |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                                                                                       | 2024-08-01 to 2024-08-27                                                                                                                                                 |                                                                                         |                           |                                |
| <b>Ort der Prüfung:</b><br>Place of testing:                                                                                                                                                                                                                                                                                                                                                                                                                  | See item 2.1                                                                                                                                                             |                                                                                         |                           |                                |
| <b>Prüflaboratorium:</b><br>Testing laboratory:                                                                                                                                                                                                                                                                                                                                                                                                               | TÜV Rheinland<br>(Shenzhen) Co., Ltd.                                                                                                                                    |                                                                                         |                           |                                |
| <b>Prüfergebnis*:</b><br>Test result*:                                                                                                                                                                                                                                                                                                                                                                                                                        | Pass                                                                                                                                                                     |                                                                                         |                           |                                |
| <b>geprüft von:</b><br>tested by:                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>genehmigt von:</b><br>authorized by:                                                                                                                                  |                                                                                         |                           |                                |
| X                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                          | X  |                           |                                |
| <b>Datum:</b><br>Date:                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2024-11-15                                                                                                                                                               | <b>Ausstellungsdatum:</b><br>Issue date:                                                | 2024-11-15                |                                |
| Signed by: Breeze Jiang                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                          | Signed by: Bell Hu                                                                      |                           |                                |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sachverständige(r)/Expert                                                                                                                                                | <b>Stellung / Position:</b>                                                             | Sachverständige(r)/Expert |                                |
| <b>Sonstiges /</b><br>Other:                                                                                                                                                                                                                                                                                                                                                                                                                                  | FCC ID: PUZ-W2BSTLAV1                                                                                                                                                    |                                                                                         |                           |                                |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br>Condition of the test item at delivery:                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                          | Prüfmuster vollständig und unbeschädigt<br>Test item complete and undamaged             |                           |                                |
| * Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                          |                                                                                         |                           |                                |
| * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                          |                                                                                         |                           |                                |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark. |                                                                                                                                                                          |                                                                                         |                           |                                |

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**Anmerkungen**  
*Remarks*

- |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b> | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.<br/>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>2</b> | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: <a href="http://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: <a href="http://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></i></p> |
| <b>3</b> | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.<br/>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.<br/>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>4</b> | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>                                                                                                                                                                                                                                                                                       |

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## ***Test Summary***

**5.1.1 ANTENNA REQUIREMENT**

RESULT: Pass

**5.1.2 99% BANDWIDTH**

RESULT: Pass

**5.1.3 20dB BANDWIDTH**

RESULT: Pass

**5.1.4 RADIATED SPURIOUS EMISSION**

RESULT: Pass

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# 1 General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of FCC Part 15C.

Appendix B: Photographs of the Test Set-up.

## 2 Test Sites

### 2.1 Test Facilities

**Shenzhen PSI Testing Co., Ltd.**

1-2F, Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

A2LA CAB identifier: CN0158

### 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

| Radio Spectrum Testing |                               |               |                  |                         |                  |            |               |
|------------------------|-------------------------------|---------------|------------------|-------------------------|------------------|------------|---------------|
| For RF Test Equipment  |                               |               |                  |                         |                  |            |               |
| Item                   | Equipment                     | Manufacturer  | Model No.        | Serial No.              | Firmware Version | Last Cal.  | Cal. Interval |
| 1.                     | 9*6*6 anechoic chamber        | SKET          | 9*6*6            | N/A                     | /                | 2023.12.20 | 3 Year        |
| 2.                     | Test Receiver                 | Rohde&Schwarz | ESCI 7           | 101032/003              | 4.42 SP3         | 2023.12.19 | 1 Year        |
| 3.                     | Loop Antenna                  | Schwarz beck  | FMZB 1519B       | 00128                   | /                | 2023.04.03 | 2 Year        |
| 4.                     | Bilog Antenna                 | Schwarz beck  | VULB 9168        | 01448                   | /                | 2022.12.26 | 2 Year        |
| 5.                     | Spectrum Analyzer             | Rohde&Schwarz | FSV-40N          | 101648                  | 3.70             | 2023.12.19 | 1 Year        |
| 6.                     | Horn Antenna                  | Schwarz beck  | BBHA 9120 D      | 02706                   | /                | 2022.12.26 | 2 Year        |
| 7.                     | Amplifier                     | SKET          | LAPA_01G18G-45dB | SK2022032901            | /                | 2023.12.19 | 1 Year        |
| 8.                     | Horn Antenna                  | Schwarz beck  | BBHA 9170        | 00946                   | /                | 2022.12.26 | 2 Year        |
| 9.                     | Amplifier                     | SKET          | LNPA_0118G-45    | SK2020010801            | /                | 2023.12.19 | 1 Year        |
| 10.                    | RF Power Probe                | Rohde&Schwarz | NRP-Z11          | 1138.3004.02-117725-vh  | /                | 2023.12.19 | 1 Year        |
| 11.                    | RF Power Probe                | Rohde&Schwarz | NRP-Z11          | 1138.3004.02-1111533-Fz | /                | 2023.12.19 | 1 Year        |
| 12.                    | Vector Signal Generator       | Agilent       | N5182A           | MY47420724              | /                | 2023.12.19 | 1 Year        |
| 13.                    | Analog signal generator       | Agilent       | N5181A           | MY50145363              | /                | 2023.12.19 | 1 Year        |
| 14.                    | Comprehensive Test Instrument | Rohde&Schwarz | CMW 500          | 145266                  | /                | 2023.12.19 | 1 Year        |
| 15.                    | Spectrum Analyzer             | Agilent       | N9020A           | MY51281067              | A.14.03          | 2023.12.19 | 1 Year        |
| 16.                    | Temp. & Humid                 | Auchno        | 9606             | /                       | /                | 2023.12.19 | 1 Year        |

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|    |                           |          |            |                  |   |            |        |
|----|---------------------------|----------|------------|------------------|---|------------|--------|
|    | Chamber                   |          |            |                  |   |            |        |
| 17 | Regulated DC Power Supply | Xinouhua | ADC120V10A | 20221125163<br>8 | / | 2023.12.19 | 1 Year |

**For Test Software Information**

| Item | Software Name | Manufacturer | Version |
|------|---------------|--------------|---------|
| RE   | EZ_EMCC       | Farad        | PSI-3A1 |
| RF   | RTS           | TACHOY       | V1.0.0  |

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

**Table 2: Measurement Uncertainty**

|                                                       |                     |
|-------------------------------------------------------|---------------------|
| Radiation Emission test in 3m chamber (below 30MHz)   | 3.5dB               |
| Radiation Emission test in 3m chamber (30MHz to 1GHz) | 2.74dB(Polarize: V) |
|                                                       | 2.76dB(Polarize: H) |
| Radiation Emission test in 3m chamber (1GHz to 18GHz) | 4.29dB(Polarize: V) |
|                                                       | 4.82dB(Polarize: H) |
| Radio frequency                                       | 48.24KHz            |
| Conducted RF Power                                    | 0.41dB              |
| Occupied-Bandwidth                                    | 968Hz               |
| Conducted-Spurious Emission                           | 1.26dB              |
| (95% confidence levels, k=2)                          |                     |

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## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The Shenzhen PSI Testing Co., Ltd. Test facility located at 1-2F, Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104, is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

## 3 General Product Information

### 3.1 Product Function and Intended Use

The EUT is a wireless charger, the power 15W wireless charger (compatible with low power 5W) and NFC(13.56 MHz) suitable for cars with 12V power supply system.

For details refer to the User Manual, Technical Description and Circuit Diagram.

### 3.2 Ratings and System Details

Table 3: Technical Specification of EUT

| General Information of EUT     | Value            |
|--------------------------------|------------------|
| Kind of Equipment:             | WIRELESS CHARGER |
| Type Designation:              | W2BSTLAV1        |
| Trademark:                     | ADAYO            |
| FCC ID:                        | PUZ-W2BSTLAV1    |
| Operating Voltage:             | DC 8-16V         |
| Testing Voltage:               | DC 12V           |
| Technical Specification of WPT |                  |
| Frequency Range:               | 110~148KHz       |
| Type of Modulation:            | ASF, FSK         |
| Antenna Type:                  | Coil antenna     |
| Wireless output power:         | 15W Max          |

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless charging (15W Max.)
- B. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

### 3.5 Submitted Documents

- Application Form
- ID Label and Location Info
- Schematics
- Operation Description
- Block Diagram
- PCB Layout

## 4 Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 & 6. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model W2BSTLAV1 in this report.

### 4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

| Description          | Manufacturer     | Model   | S/N | Rating   |
|----------------------|------------------|---------|-----|----------|
| Wireless charge Load | YBZ              | N/A     | N/A | 15W Max. |
| Mobile Phone         | SAMSUNG          | S8+     | N/A | N/A      |
| Dummy Load           | LING OU RESISTOR | BX 7-24 | N/A | N/A      |

### 4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

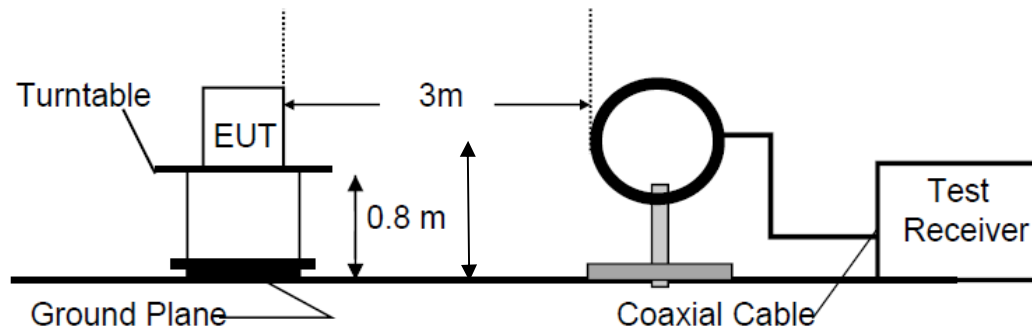
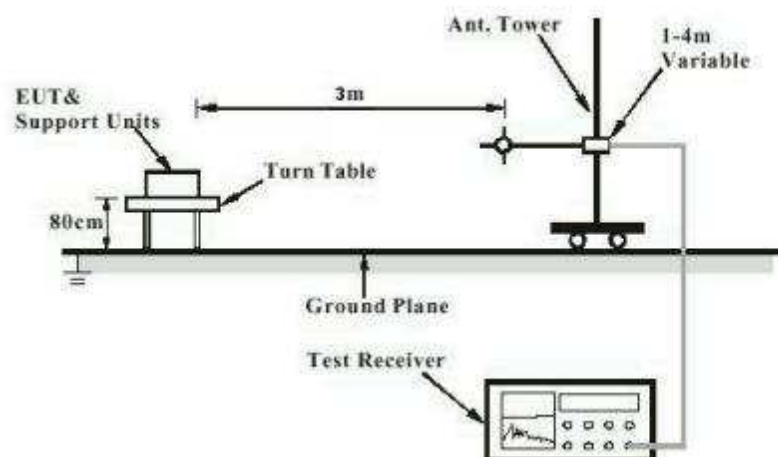


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

RESULT:

Pass

##### Test Specification

Test standard : Part 15.203  
the use of antennas with directional gains that do not exceed 6 dBi

The EUT has one internal antenna, and the antenna is permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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## 5.1.2 99% Bandwidth

**RESULT:**

**Pass**

### Test Specification

Basic standard : ANSI C63.10: 2013  
Kind of test site : Shielded Room

### Test Setup

Date of testing : 2024-08-05  
Input voltage : DC 12V  
Operation mode : A  
Ambient temperature : 25.6 °C  
Relative humidity : 51.8 %  
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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### 5.1.3 20dB Bandwidth

**RESULT:**

**Pass**

#### Test Specification

|                   |                      |
|-------------------|----------------------|
| Test standard     | : FCC Part 15.215(c) |
| Basic standard    | : ANSI C63.10: 2013  |
| Kind of test site | : Shielded Room      |

#### Test Setup

|                      |              |
|----------------------|--------------|
| Date of testing      | : 2024-08-05 |
| Input voltage        | : DC 12V     |
| Operation mode       | : A          |
| Ambient temperature  | : 25.6 °C    |
| Relative humidity    | : 51.8 %     |
| Atmospheric pressure | : 101 kPa    |

For the measurement records, refer to the appendix A.

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## 5.1.4 Radiated Spurious Emission

### RESULT:

**Pass**

#### Test Specification

|                   |                            |
|-------------------|----------------------------|
| Test standard     | : FCC Part 15.209 & 15.205 |
| Basic standard    | : ANSI C63.10: 2013        |
| Limits            | : Refer to 15.209(a)       |
| Kind of test site | : 3m Semi-anechoic Chamber |

#### Test Setup

|                      |                        |
|----------------------|------------------------|
| Date of testing      | : 2024-07-31           |
| Input voltage        | : DC 12V               |
| Operation mode       | : A                    |
| Ambient temperature  | : Refer to test result |
| Relative humidity    | : Refer to test result |
| Atmospheric pressure | : 101 kPa              |

For the measurement records, refer to the appendix A.

## 6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

## 7 List of Tables

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