

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                             |                                                                                           |                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>Prüfbericht-Nr.:</b><br><i>Test report no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>CN24J80E 002</b>                                                                                                                                                                         | <b>Auftrags-Nr.:</b><br><i>Order no.:</i>                                                 | 168513747<br><br>Seite 1 von 8<br>Page 1 of 8 |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client reference no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                          | N/A                                                                                                                                                                                         | <b>Auftragsdatum:</b><br><i>Order date:</i>                                               | 2024-11-14                                    |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                                                                                                                                                                                                                               | Shenzhen Aiper Intelligent Co., Ltd.<br>Units 3201, 3203A and 3205, 32nd Floor, Block C, Phase 2 Galaxy World, Minle Community, Minzhi Street, Longhua District, Shenzhen, Guangdong, China |                                                                                           |                                               |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>                                                                                                                                                                                                                                                                                                                                                                                                                          | WIRELESS CHARGING DOCK                                                                                                                                                                      |                                                                                           |                                               |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                   | CHW1                                                                                                                                                                                        |                                                                                           |                                               |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>                                                                                                                                                                                                                                                                                                                                                                                                                     | Test Report                                                                                                                                                                                 |                                                                                           |                                               |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                                                                                                                                                                                                                                  | CFR47 FCC Part 2: Section 2.1091<br>RSS-102 Issue 6 December 2023                                                                                                                           |                                                                                           |                                               |
| <b>Wareneingangsdatum:</b><br><i>Date of sample receipt:</i>                                                                                                                                                                                                                                                                                                                                                                                                         | 2024-11-20                                                                                                                                                                                  | Please refer to Photo Document                                                            |                                               |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                    | A003872682-001~006<br>A003876839-001~004                                                                                                                                                    |                                                                                           |                                               |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>                                                                                                                                                                                                                                                                                                                                                                                                                       | 2024-12-11 - 2024-12-16                                                                                                                                                                     |                                                                                           |                                               |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>                                                                                                                                                                                                                                                                                                                                                                                                                  | TÜV Rheinland<br>(Shenzhen) Co., Ltd.                                                                                                                                                       |                                                                                           |                                               |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>                                                                                                                                                                                                                                                                                                                                                                                                               | TÜV Rheinland<br>(Shenzhen) Co., Ltd.                                                                                                                                                       |                                                                                           |                                               |
| <b>Prüfergebnis*:</b><br><i>Test result*:</i>                                                                                                                                                                                                                                                                                                                                                                                                                        | Pass                                                                                                                                                                                        |                                                                                           |                                               |
| <b>geprüft von:</b><br><i>tested by:</i>                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>genehmigt von:</b><br><i>authorized by:</i>                                                                                                                                              |                                                                                           |                                               |
| <b>Datum:</b><br><i>Date:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Ausstellungsdatum:</b><br><i>Issue date:</i>                                                                                                                                             |                                                                                           |                                               |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Stellung / Position:</b>                                                                                                                                                                 |                                                                                           |                                               |
| <b>Sonstiges /</b><br><i>Other:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                             |                                                                                           |                                               |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br><i>Condition of the test item at delivery:</i>                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                             | <b>Prüfmuster vollständig und unbeschädigt</b><br><i>Test item complete and undamaged</i> |                                               |
| <div>* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet</div> <div>* 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</div>                                                                                                                                                          |                                                                                                                                                                                             |                                                                                           |                                               |
| <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><i>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.</i> |                                                                                                                                                                                             |                                                                                           |                                               |

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**Anmerkungen**  
**Remarks**

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <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.</p> <p>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>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2 | <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> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>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.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4 | <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

**3.1.1 RF EXPOSURE COMPLIANCE**  
*RESULT: Pass*

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## 1. Test Sites

### 1.1 Test Facilities

**TÜV Rheinland (Shenzhen) Co., Ltd.**

No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China.

FCC Registration No.: CN1260

ISED wireless device testing laboratory: 25069

### 1.2 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

### 1.3 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.

### 1.4 Location of Original Data

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

### 1.5 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

## 2. General Product Information

### 2.1 General Description

The EUT is a WIRELESS CHARGING DOCK which supports 2.4GHz wireless technology.

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

### 2.2 Rating and System details

Table 1: Technical Specification of EUT

| General Information of EUT            | Value                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| Kind of Equipment:                    | WIRELESS CHARGING DOCK                                                                  |
| Type Designation:                     | CHW1                                                                                    |
| FCC ID:                               | 2BMDV-CHW1                                                                              |
| IC:                                   | 31793-CHW1                                                                              |
| HVIN:                                 | CHW1                                                                                    |
| Operating Voltage:                    | DC 29.4V input via AC/DC Adapter                                                        |
| Testing Voltage:                      | AC 120V, 60Hz                                                                           |
| Operating Temperature Range:          | 0 °C ~ +40 °C                                                                           |
| AC/DC Adapter:                        | Model: GM95-294300-2FGN<br>Input: 100-240V, 50/60Hz, 2.5A<br>Output: 29.4V, 3.0A, 88.2W |
| Technical Specification of 2.4GHz SRD |                                                                                         |
| Frequency Band:                       | 2400 - 2483.5 MHz                                                                       |
| Operation Frequency:                  | 2478 MHz                                                                                |
| Type of Modulation:                   | GFSK                                                                                    |
| Antenna Type:                         | PCB Antenna                                                                             |
| Antenna Gain:                         | -1.12 dBi (Provided by the Client)                                                      |

### 3. Test Results

#### 3.1 RF Exposure Evaluation

##### 3.1.1 RF Exposure Compliance

**RESULT:**
**Pass**

Test standard : 47 CFR FCC Part 2.1091  
RSS-102 Issue 6 December 2023

Limit : Table 1 of 47 CFR FCC Part 1.1310  
Section 6.6 of RSS-102 Issue 6  
KDB447498 D01 V06

This device is mobile device, and the applicant declares that the minimum separation distance is greater than 20cm. Therefore, MPE measurement or computational modelling should be used to determine compliance.

Antenna Gain: -1.12dBi for 2.4GHz

##### 3.1.1.1 RF Exposure Compliance Requirement for FCC

###### a) Radio Frequency Exposure Limit

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) |
|-----------------------|-------------------------------|-------------------------------|-------------------------------------|
| 300-1,500             | --                            | --                            | f/1500                              |
| 1,500-100,000         | --                            | --                            | 1.0                                 |

###### b) Radio Frequency Exposure Calculation Formula

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)  
P = power input to the antenna (in appropriate units, e.g., mW)  
G = power gain of the antenna in the direction of interest relative to an isotropic radiator  
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

or:

$$S = \frac{EIRP}{4\pi R^2}$$

where: EIRP = equivalent (or effective) isotropically radiated power

**c) RF Exposure Calculations for FCC, stand-alone mode**

| Operating Mode | Measured RF Output Power (dBm) | Max. EIRP (dBm) | Distance (cm) | MPE $P_d$ (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) | Verdict |
|----------------|--------------------------------|-----------------|---------------|---------------------------------|-----------------------------|---------|
| 2.4GHz         | -14.87                         | -15.99          | 20            | 0.00001                         | 1.0                         | Pass    |

Note: RF Output Power refer to report CN24J80E 001.

Note: The Induction charging frequency is 73.8kHz, It is relatively wide apart from the 2.4GHz frequency and does not affect each other.

**d) Conclusion**

Therefore the maximum calculations result of above are meet the requirement of Radio Frequency Exposure (MPE) limit.

**3.1.1.2 RSS-102 Exemption Limits for Routine Evaluation – RF Exposure Evaluation**

The EUT shall comply with the requirement of RSS-102 section 6.6.

**Exemption from Routine Evaluation Limits – RF Exposure Evaluation**

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $1.31 \times 10^{-2} f^{0.6834}$  W (adjusted for tune-up tolerance), where  $f$  is in MHz;

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

**a) RF Exposure Calculations for ISSED, Stand-alone mode**

| Operating Mode | Maximum EIRP (dBm) | Maximum EIRP (W) | Distance (cm) | Threshold power (W) | Verdict |
|----------------|--------------------|------------------|---------------|---------------------|---------|
| 2.4GHz         | -15.99             | 0.00003          | 20            | 2.68                | Pass    |

Note: RF Output Power refer to report CN24J80E 001.

Note: The Induction charging frequency is 73.8kHz, It is relatively wide apart from the 2.4GHz frequency and does not affect each other.

**b) Conclusion**

“RF Radiation Exposure Statement Caution: This Transmitter must be installed to provide a separation distance of at least 20 cm from all persons.”