



MPE Test Report

Report No.: STS2503194H02

Issued for

SE Factory B.V.

De Deimten 7, 9747 AV Groningen, Netherlands

Product Name: Wireless Dockingstation

Brand Name: EMDR Kit

Model Name: 80047

Series Model(s): N/A

FCC ID: 2BOUW80047

Test Standard: FCC CFR 47 part 1, 1.1310

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST RESULT CERTIFICATION**

Applicant's Name: SE Factory B.V.
Address: De Deimten 7, 9747 AV Groningen, Netherlands
Manufacturer's Name: SE Factory B.V.
Address: De Deimten 7, 9747 AV Groningen, Netherlands

Product Description

Product Name: Wireless Dockingstation

Brand Name: EMDR Kit

Model Name: 80047

Series Model(s): N/A

Standards: FCC CFR 47 part 1, 1.1310

Test Procedure: KDB 680106 D01 Wireless Power Transfer v04

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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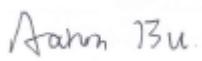
Date of Test:

Date of receipt of test item: 27 Mar. 2025

Date of performance of tests: 27 Mar. 2025 ~23 July 2025

Date of Issue: 23 July 2025

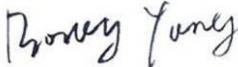
Test Result: **Pass**

Testing Engineer : 

(Aaron Bu)

Technical Manager : 

(Skylar Li)

Authorized Signatory : 

(Bovey Yang)



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**Revision History**

| Rev. | Issue Date | Report No. | Effect Page | Contents |
|------|--------------|---------------|-------------|---------------|
| 00 | 23 July 2025 | STS2503194H02 | ALL | Initial Issue |
| | | | | |



1. SUMMARY OF TEST RESULTS

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

| No. | Item | Uncertainty |
|-----|---------|---------------------|
| 1 | H-filed | $\pm 0.83\text{dB}$ |
| 2 | E-filed | $\pm 0.91\text{dB}$ |



1.3 GENERAL DESCRIPTION OF THE EUT

| | |
|-------------------------|--|
| Product Name | Wireless Dockingstation |
| Brand | EMDR Kit |
| Model Number | 80047 |
| Series Model(s) | N/A |
| Model Difference | N/A |
| Equipment Category | Non-ISM frequency |
| Antenna Type | Please refer to the Note 2. |
| Operating frequency | 110.5kHz-205kHz |
| Modulation Type | ASK |
| Power Rating | Output: 10V, 380mA (AC) |
| Adapter | Input: 100-240V, 50/60Hz, 0,4A (AC) Output: 12V, 1A, 12W (DC) |
| Wireless charging power | 7.6W |
| Battery | N/A |
| Hardware version number | V3.1.1 |
| Software version number | V1.4.10 |
| Connecting I/O Port(s) | Please refer to the Note 1. |

Note:

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



2. Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | NOTE |
|------|----------|------------|--------------|-----------|---------|
| 1 | EMDR Kit | 80047 | Coil | N/A | Antenna |

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

1.4 DESCRIPTION OF THE TEST MODES

Equipment under test was operated during the measurement under the following conditions:

| Test Mode | Description | |
|-----------|---------------------------------|--------|
| Mode 1 | Adapter input+Wireless charging | Record |

1.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|--|--------------|----------|------------|------------------|------------------|
| Electric and Magnetic field Probe - Analyzer | Narda | EHP 200A | 180ZX10220 | 2025.02.22 | 2026.02.21 |

1.6 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

| Item | Equipment | Mfr/Brand | Model/Type No. | Note |
|------|-----------|-----------|------------------|------|
| E-1 | Adapter | EMDR Kit | MKB2-1201000HEUD | N/A |
| | | | | |
| | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| N/A | N/A | N/A | N/A | N/A |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

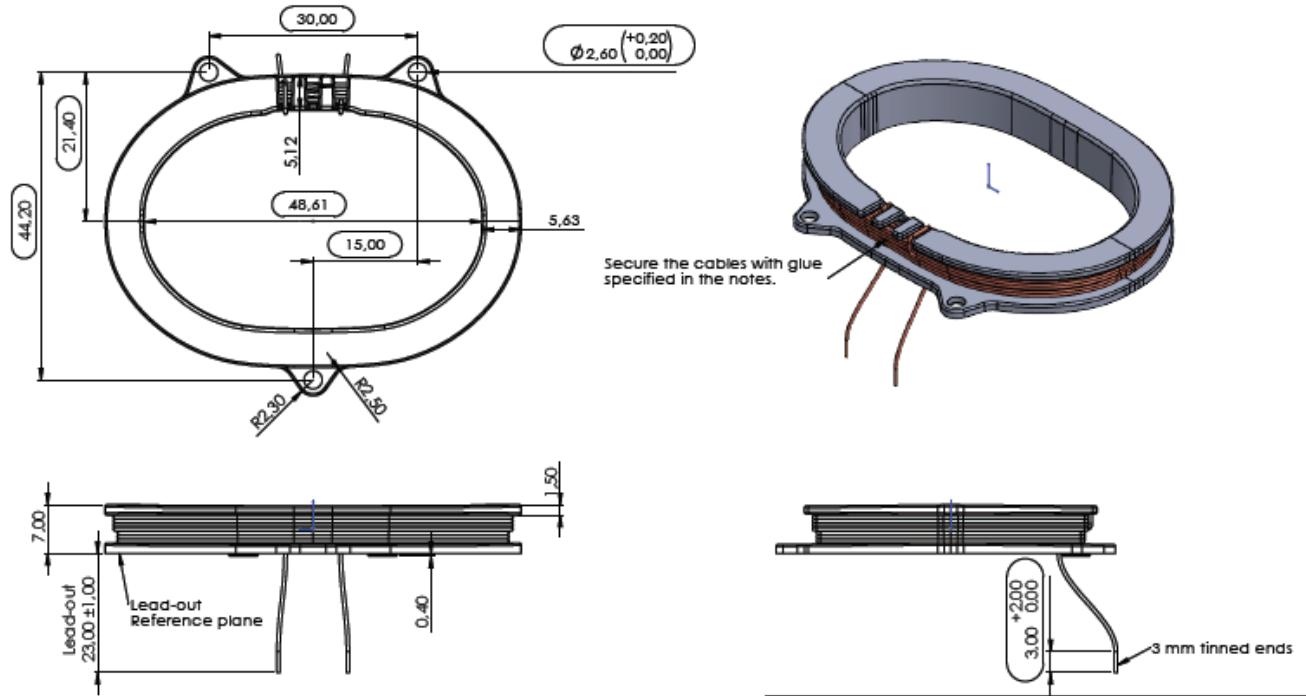
Note:

- (1) For detachable type I/O cable should be specified the length in cm in «Length» column.
- (2) "YES" is means "with core"; "NO" is means "without core".

2. COIL SPECIFICATIONS

| Item | Parameter |
|---------------------------|-----------------------------|
| Input inductance: | L1: $84\mu\text{H} \pm 5\%$ |
| Material of enclosure(s): | Silk wrapped wire |
| Number of turns: | Transmitter 1: 32turns |

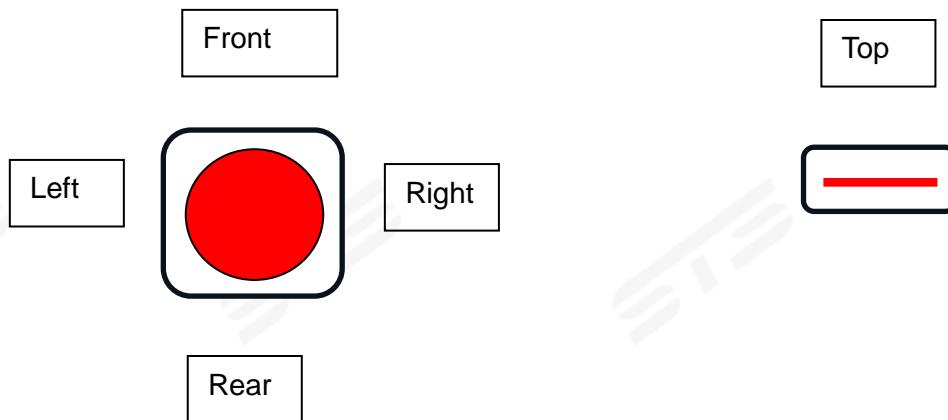
2.1 COIL SIZE



2.2 LOCATION(S) – COIL TO THE OUTER SURFACE OF THE ENCLOSURE(S)

Unit: mm

| Front A | Rear B | Left C | Right D | Top E |
|---------|--------|--------|---------|-------|
| 15 | 15 | 15 | 15 | 15 |





3. MAXIMUM PERMISSIBLE EXPOSURE

3.1 MEASURING STANDARD

According to §1.1310(e)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1091 RF exposure is calculated. According KDB680106 D01: KDB 680106 D01 Wireless Power Transfer v04.

3.2 REQUIREMENTS

According to the item 3 of KDB 680106 D01v04:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- (1) Mobile Device and Portable Device Configurations
- (2) Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz
- (3) The aggregate H-field strengths anywhere at or beyond 20 cm surrounding the device, and 20 cm away from the top surface.

Limits

Table 1 to § 1.1310(e)(1) sets forth limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields.

Limit of Maximum Permissible Exposure

| Limits for Occupational / Controlled Exposure | | | | |
|---|-----------------------------------|-----------------------------------|--|--|
| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm ²) | Averaging Time E ² , H ² or S (minutes) |
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 |
| 3.0-30 | 1842 / f | 4.89 / f | (900 / f)* | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | | | F/300 | 6 |
| 1500-100,000 | | | 5 | 6 |



| Limits for General Population / Uncontrolled Exposure | | | | |
|---|-----------------------------------|-----------------------------------|---|--|
| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW / cm ²) | Averaging Time E ² , H ² or S (minutes) |
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180 / f)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | | | F/1500 | 30 |
| 1500-100,000 | | | 1 | 30 |

Note 1: f = frequency in MHz ; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03

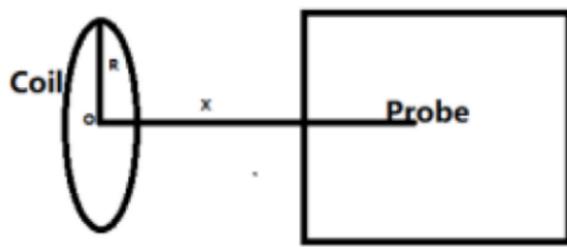
Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

Note 4: The aggregate H-field strengths at 20 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

3.3 TEST PROCEDURE

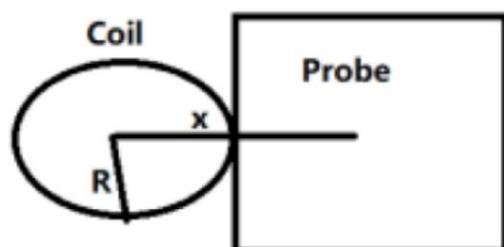
- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (2cm increments from 0 ~ 20 cm for all sides for portable mode, 20 cm from the top for mobile mode) which is between the edge of the charger and the geometric edge of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.
- 5) According to the requirements if KDB 680106 D01 v04, If the center of the probe sensing element is located more than 5mm from the probe outer surface, the field strengths need to be estimated through modeling for those positions that are not reachable. (The sensitive elements are located approximately 18.5 mm below the external surface specified in user manual of MAGPy-8H3D+E3D)
- 6) Use Biot-Savart Law, the value of 0 cm can be estimated through the results of 2 cm, according to the formula:

Top & Bottom Side:



$$B = \frac{\mu_0 * I * N * R^2}{2 * (R^2 + x^2)^{3/2}}$$

Front, left, right & rear Side:



$$B = \frac{\mu_0 * I * N}{2 * x}$$

Remark:

B: H-field (Unit:T)

μ_0 : Space permeability = $4\pi \times 10^{-7}$

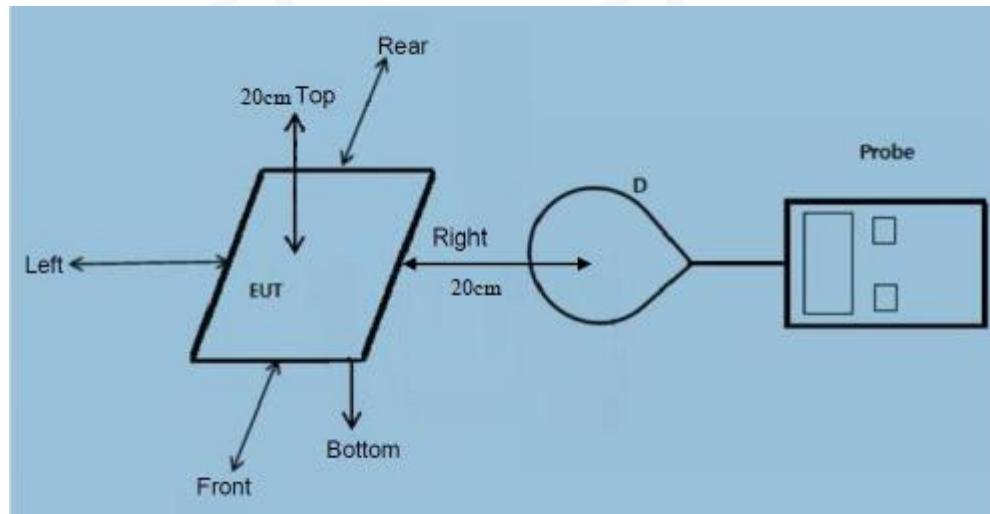
I (Unit: A): The current element passing through a radiated coil

R: Radius of radiated coil, according to the coil specification: R=0.015m

X: The distance from the sensing elements of the probe to the edge of the radiated coil (the dimensions of EUT and load are taken into account), (Unit: m)

N: Turns of the radiated coil, according to the coil specification: N=15.

3.4 TEST SETUP





3.5 TEST RESULTS

The EUT does comply with item 3 KDB680106 D01 v04.

(1) Power transfer frequency is less than 1 MHz.

Yes, The working frequency is 110.5-205KHz.

(2) Output power from each primary coil is less than or equal to 15 watts.

Yes, The maximum output power is 7.6 watts.

(3) A client device providing the maximum permitted load is placed in physical contact with the transmitter(i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)

Yes, The maximum permitted load is placed in physical contact with the transmitter.

(4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-exposure conditions)

Yes.the EUT is Mobile condition assessment.

(5) (5)The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inversedistance from the emitter structure) field strength decay is observed. Symmetry considerations may be usedfor test reduction purposes. The device shall be operated in documented worst-case compliance scenarios(i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

Yes, The H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit ; coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

(6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time. as per design conditions, if the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered then those cases must be tested as well, For instance, a device may use three RF coils powered at 5 W, or two coil powered at 15 W: in this case, both scenarios shall be tested.

Yes, For systems with double radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time.



3.6 MAXIMUM PERMISSIBLE EXPOSURE

| Maximum Permissible Exposure | | | | |
|------------------------------|------------|---------------------|---------------|---------------|
| Charging | Separation | Probe from EUT Side | E-field (V/m) | H-field (A/m) |
| < 1% Battery | 20cm | Front | 0.460 | 0.112 |
| < 1% Battery | 20cm | Rear | 0.432 | 0.115 |
| < 1% Battery | 20cm | Left | 0.419 | 0.110 |
| < 1% Battery | 20cm | Right | 0.439 | 0.122 |
| < 1% Battery | 20cm | Bottom | 0.442 | 0.109 |
| < 1% Battery | 20cm | Top | 0.464 | 0.147 |
| Limit | | | 614 | 1.63 |
| Margin Limit (%) | | | 0.08% | 9.00% |

| Maximum Permissible Exposure | | | | |
|------------------------------|------------|---------------------|---------------|---------------|
| Charging | Separation | Probe from EUT Side | E-field (V/m) | H-field (A/m) |
| 50% Battery | 20cm | Front | 0.458 | 0.127 |
| 50% Battery | 20cm | Rear | 0.438 | 0.101 |
| 50% Battery | 20cm | Left | 0.428 | 0.119 |
| 50% Battery | 20cm | Right | 0.434 | 0.114 |
| 50% Battery | 20cm | Bottom | 0.435 | 0.126 |
| 50% Battery | 20cm | Top | 0.478 | 0.136 |
| Limit | | | 614 | 1.63 |
| Margin Limit (%) | | | 0.08% | 8.35% |

| Maximum Permissible Exposure | | | | |
|------------------------------|------------|---------------------|---------------|---------------|
| Charging | Separation | Probe from EUT Side | E-field (V/m) | H-field (A/m) |
| > 99% Battery | 20cm | Front | 0.447 | 0.128 |
| > 99% Battery | 20cm | Rear | 0.432 | 0.102 |
| > 99% Battery | 20cm | Left | 0.420 | 0.107 |
| > 99% Battery | 20cm | Right | 0.437 | 0.111 |
| > 99% Battery | 20cm | Bottom | 0.441 | 0.119 |
| > 99% Battery | 20cm | Top | 0.461 | 0.144 |
| Limit | | | 614 | 1.63 |
| Margin Limit (%) | | | 0.08% | 8.86% |

Note: 1. All test modes were pre-tested, but we only recorded the worst case in this report.
2. The worst mode is wireless charging with two loads.

MPE Setup photo

Wireless charging 1
Front



Left



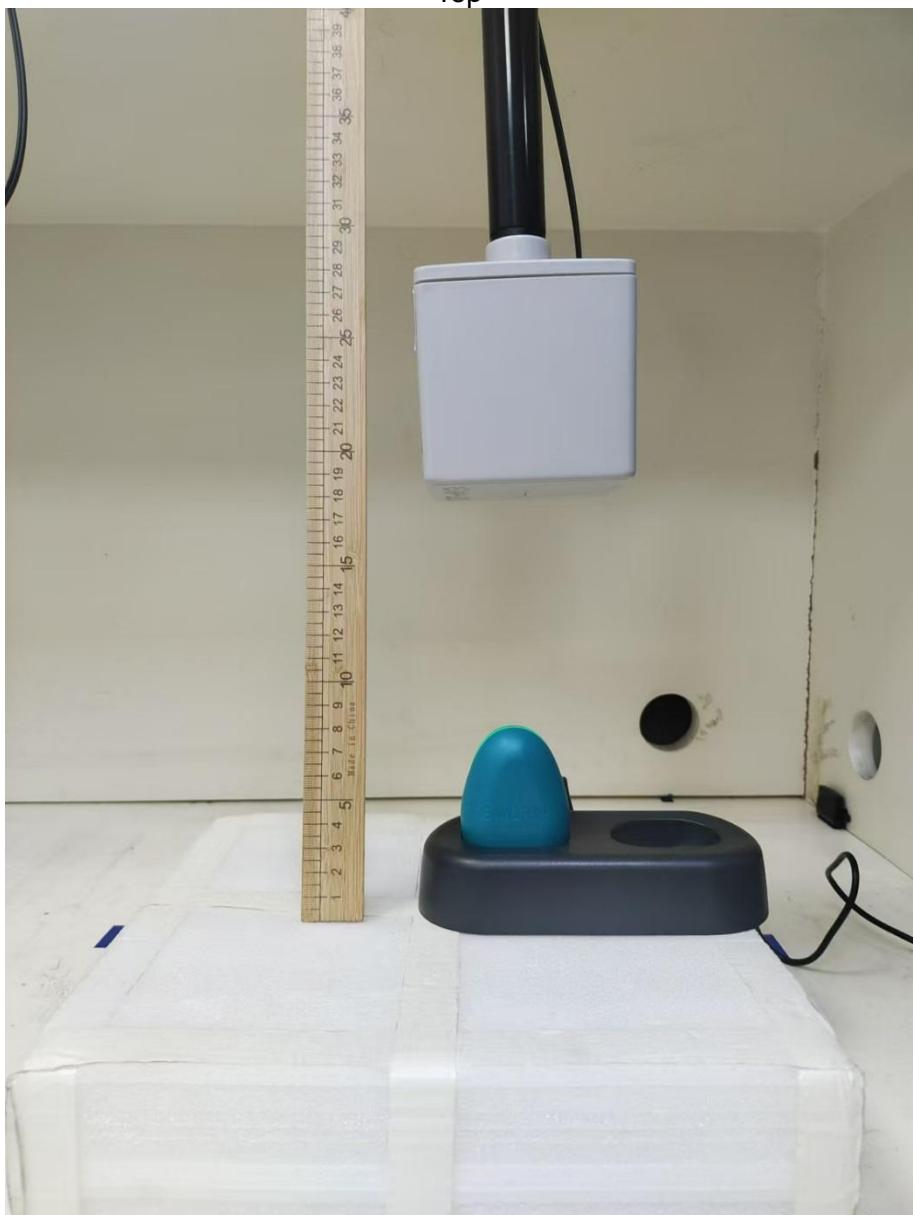
Rear



Right



Top



Wireless charging 2
Front

Front



Left

Rear



Right



Top



Wireless charging 3
Front



Left

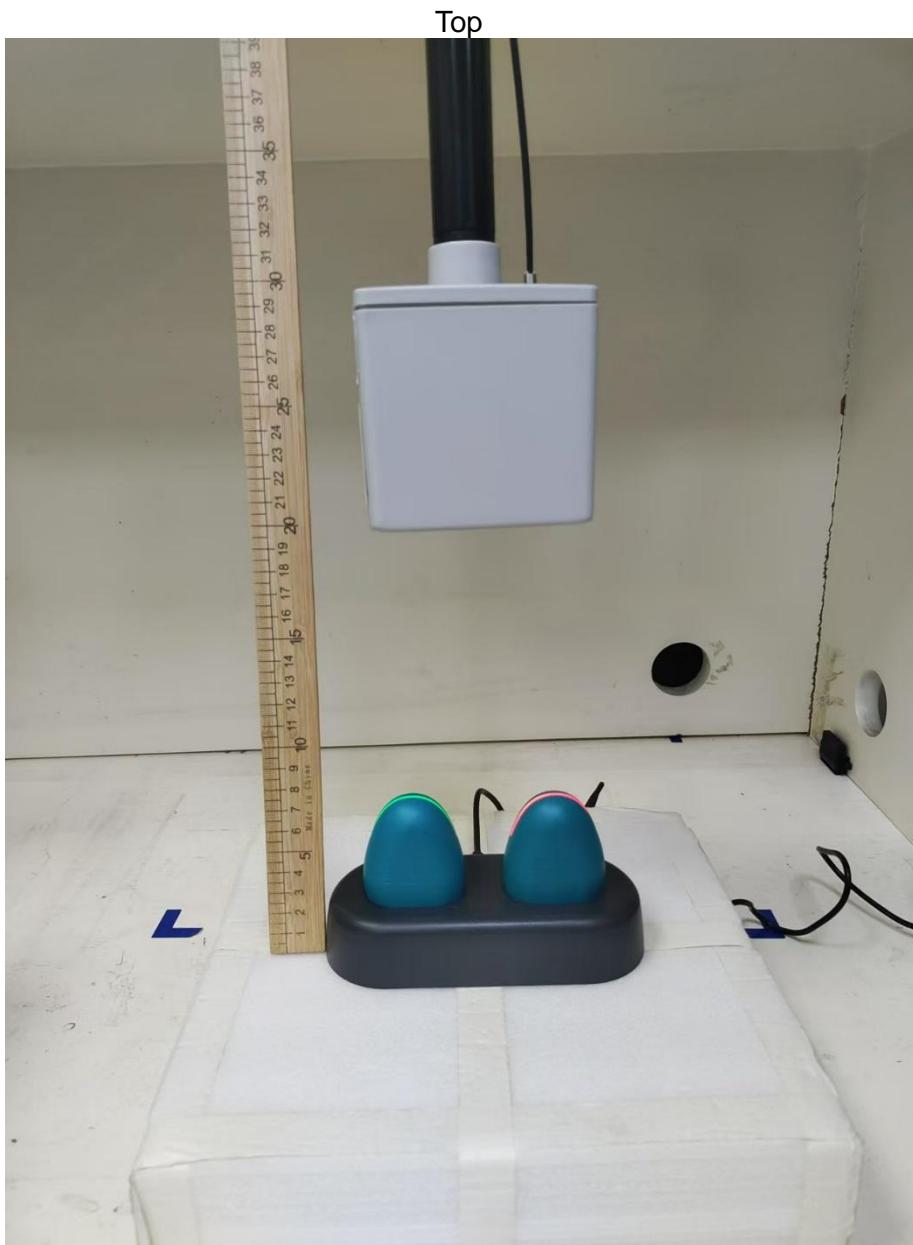


Rear



Right





*****END OF THE REPORT*****