# MPE TEST REPORT

Report No:STS2105091H01

Issued for

Hermès Sellier

N/A

| | |
|---|---|
| **Product Name:** | Wireless Charging Change Tray Volt'H |
| **Brand Name:** | N/A |
| **Model Name:** | VOLTHTRAY |
| **Series Model:** | N/A |
| **FCC ID:** | 2AZI9-VOLTHTRAY |
| **Test Standard:** | FCC CFR 47 part 1, 1.1310 |



Shenzhen STS Test Services Co., Ltd.
A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ,
Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China
TEL: +86-755 3688 6288 FAX: +86-755 3688 6277 E-mail:sts@stsapp.com

## TEST RESULT CERTIFICATION

| | |
|---|---|
| Applicant's Name.....: | Hermès Sellier |
| Address .....: | 24 rue du Faubourg Saint-Honoré, Paris 75008 France |
| Manufacturer's Name .....: | Hermès Sellier |
| Address .....: | 24 rue du Faubourg Saint-Honoré, Paris 75008 France |

**Product Description**

| | |
|---|---|
| Product Name.....: | Wireless Charging Change Tray Volt'H |
| Brand Name .....: | N/A |
| Model Name .....: | VOLTHTRAY |
| Series Model.....: | N/A |
| Standards .....: | FCC CFR 47 part 1, 1.1310 |
| Test Procedure .....: | 680106 D01 RF Exposure Wireless Charging Apps v03 |

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.....: | 18 May 2021 |
| Date of performance of tests ..: | 18 May 2021 ~ 31 May 2021 |
| Date of Issue .....: | 31 May 2021 |
| Test Result .....: | **Pass** |

Testing Engineer : Chris Chen

(Chris Chen)

Technical Manager : Sean She

(Sean She)

Authorized Signatory : Vita Li

(Vita Li)

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## Revision History

| Rev. | Issue Date | Report NO. | Effect Page | Contents |
|---|---|---|---|---|
| 00 | 31 May 2021 | STS2105091H01 | ALL | Initial Issue |
| | | | | |

# 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

| FCC CFR 47 | | | |
|---|---|---|---|
| Standard Section | Test Item | Judgment | Remark |
| FCC CFR 47 part1, 1.1310 KDB680106 D01v03 | Electric Field Strength (E) (V/m) | PASS | |
| | Magnetic Field Strength (H) (A/m) | PASS | |

## 1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD
Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong 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 ±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 | Uncertainly |
|---|---|---|
| 1 | H-filed | 1.2μT |
| 2 | E-filed | 16% |

1.3 GENERAL DESCRIPTION OF THE EUT

| | |
|---|---|
| Product Name | Wireless Charging Change Tray Volt'H |
| Trade Name | N/A |
| Model Name | VOLTHTRAY |
| Series Model | N/A |
| Model Difference | N/A |
| Equipemnt Category | Non-ISM frequency |
| Antenna Type | Please refer to the Note 2. |
| Operating frequency | 120-205KHz |
| Modulation Type | FSK |
| Power Rating | Input: 15W max |
| Hardware version number | N/A |
| Software version number | N/A |
| 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 | N/A | VOLTHTRAY | Coil | NA | 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 EQUIPMENTS LIST FOR ALL TEST ITEMS

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|---|---|---|---|---|---|
| Electromagnetic field strength analyzer | Coliy Technology GmbH | E300 | 13945 | 2010.10.19 | 2021.10.18 |
| Three-dimensional omnidirectional electric field probe | Coliy Technology GmbH | EP0650 | N/A | 2010.10.19 | 2021.10.18 |
| Three-dimensional omnidirectional magnetic field probe | Coliy Technology GmbH | HP0350 | N/A | 2010.10.19 | 2021.10.18 |
| Three-dimensional omnidirectional electric and magnetic field combo probe | Coliy Technology GmbH | EHP150 | N/A | 2010.10.19 | 2021.10.18 |

Note:
1. The Three-dimensional omnidirectional electric field probe frequency rang is 100 KHz - 6.5 GHz, the Three-dimensional omnidirectional magnetic field probe frequency rang is 100 KHz - 35 MHz, and the Three-dimensional omnidirectional electric and magnetic field combo probe frequency rang is 5 Hz - 150 KHz, their selectable resolution bandwidth (RBW) is 1Hz/10Hz/30Hz.
2. The isotropic probes mean deviation response is not greater than 1 dB.

## 1.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

Necessary accessories

| Item | Equipment | Mfr/Brand | Model/Type No. | Length | Note |
|---|---|---|---|---|---|
| N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | |
| | | | | | |
| | | | | | |

Support units

| Item | Equipment | Mfr/Brand | Model/Type No. | Length | Note |
|---|---|---|---|---|---|
| / | Mobile Phone | Apple | iPhone 8 Plus | 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. MAXIMUM PERMISSIBLE EXPOSURE

## 2.1 MAXIMUM PERMISSIBLE EXPOSURE

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/ cm²) | 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/ cm²) | 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

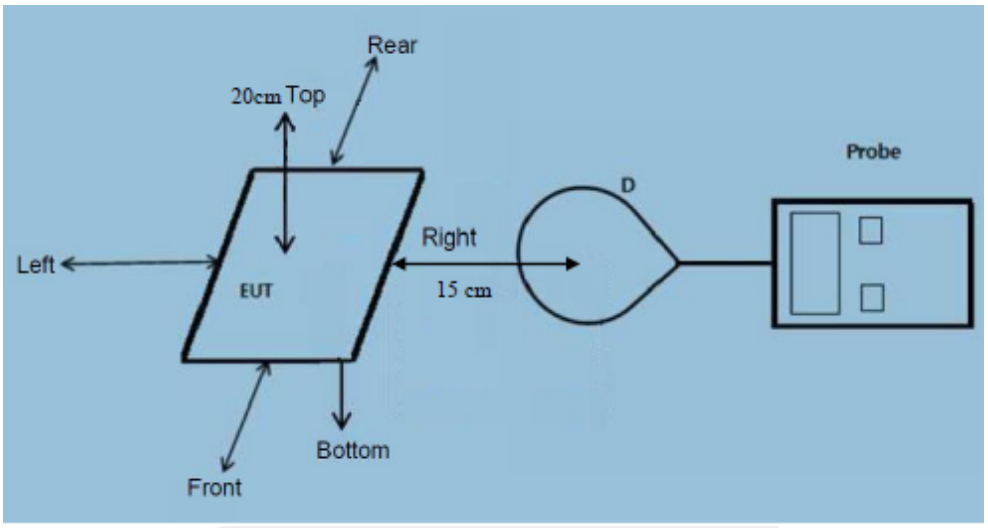
of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

Note 4: The aggregate H-field strengths at 15 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.

2.2 TEST PROCEDURE

a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 20 cm(Top) and 15cm(Edge). E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 20 cm(Top) and 15cm(Edge) measured from the center of the probe(s) to the edge of the device.

2.3 TEST SETUP




Remark: The E300 probe antenna diameter is less than 11.5cm.

2.4 TEST RESULTS

The EUT does comply with item 5 KDB680106 D01 v03.

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

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

(3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
(Conform)

(4) Client device is placed directly in contact with the transmitter.
(Conform)

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
(Conform)

(6) The aggregate H-field strengths at 15 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.
(Conform)

## 2.5 MAXIMUM PERMISSIBLE EXPOSURE

| Maximum Permissible Exposure | | | | |
|---|---|---|---|---|
| Charging | Separation | Probe from EUT Side | E-field (V/m) | H-field (A/m) |
| < 1% Battery | 15cm | Front | 2.915 | 0.233 |
| < 1% Battery | 15cm | Rear | 2.728 | 0.24 |
| < 1% Battery | 15cm | Left | 2.695 | 0.241 |
| < 1% Battery | 15cm | Right | 2.553 | 0.239 |
| < 1% Battery | 20cm | Top | 2.548 | 0.238 |
| Limit | | | 614 | 1.63 |
| Margin Limit (%) | | | 0.41% | 14.60% |

| Maximum Permissible Exposure | | | | |
|---|---|---|---|---|
| Charging | Separation | Probe from EUT Side | E-field (V/m) | H-field (A/m) |
| 50% Battery | 15cm | Front | 2.734 | 0.213 |
| 50% Battery | 15cm | Rear | 2.489 | 0.235 |
| 50% Battery | 15cm | Left | 2.327 | 0.203 |
| 50% Battery | 15cm | Right | 2.074 | 0.217 |
| 50% Battery | 20cm | Top | 2.374 | 0.217 |
| Limit | | | 614 | 1.63 |
| Margin Limit (%) | | | 0.39% | 13.31% |

| Maximum Permissible Exposure | | | | |
|---|---|---|---|---|
| Charging | Separation | Probe from EUT Side | E-field (V/m) | H-field (A/m) |
| ＞99% Battery | 15cm | Front | 2.438 | 0.201 |
| ＞99% Battery | 15cm | Rear | 2.411 | 0.213 |
| ＞99% Battery | 15cm | Left | 2.035 | 0.195 |
| ＞99% Battery | 15cm | Right | 1.623 | 0.202 |
| ＞99% Battery | 20cm | Top | 2.361 | 0.203 |
| Limit | | | 614 | 1.63 |
| Margin Limit (%) | | | 0.38% | 12.45% |

# MPE SETUP PHOTO

Refer to photos documents

※※※※※END OF THE REPORT※※※※※