

# **TEST REPORT**

**Report No.:** 8236EU122001W2

**Applicant:** Guangdong Titecssion Industrial Co.,Ltd

Address: Building 4,Xingxing industrial Zone,Dashi Street, Panyu

District, Guangzhou, China

**Product Name:** Magnetic Fast Charging Power Bank10000mAh

Model No.: X-103W

Trademark: N/A

**FCC ID:** 2A6SH-X103W

**Test Standard(s):** 47 CFR Part 1 Subpart I Section 1.1310

47 CFR Part 2, Subpart J, Section 2.1091

Date of Receipt: Dec. 20, 2024

**Test Date:** Dec. 20, 2024 – Jan. 16, 2025

Date of Issue: Jan. 20, 2025

**ISSUED BY:** 

Prepared by:

SHENZHEN EU TESTING LABORATORY LIMITE

Reviewed and Approved by:

Mikey Zhu/ Engineer

Sally Zhang/ Manager



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# **Revision Record**

Report Version	Issued Date	Description	Status
V0	Jan. 20, 2025	Original	Valid





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### 2 General Information

## 2.1 Applicant Information

Applicant	Guangdong Titecssion Industrial Co.,Ltd
Address	Building 4,Xingxing industrial Zone,Dashi Street, Panyu District, Guangzhou, China

#### 2.2 Manufacturer Information

Manufacturer	Guangdong Titecssion Industrial Co.,Ltd
Address	Building 4,Xingxing industrial Zone,Dashi Street, Panyu District, Guangzhou, China

## 2.3 Factory Information

Factory	Guangdong Titecssion Industrial Co.,Ltd
Address	Building 4,Xingxing industrial Zone,Dashi Street, Panyu District, Guangzhou, China

# 2.4 General Description of E.U.T.

Product Name	Magnetic Fast Charging Power Bank10000mAh	
Model No. Under Test	X-103W	
List Model No.	N/A	
Description of Model differentiation	N/A	
	Input (USB-C): 5V===3A, 9V===2A, 12V===1.5A	
	Output (USB-C/USB-A): 5V===3A, 9V===2A, 12V===1.5A	
<b>5</b> " ()	USB Output: 5V==3A, 9V==-2A, 12V==-1.5A	
Rating(s)	Wireless Charging Output: 15W Max	
	Total Output (USB-C + USB-A + Wireless): 15W Max	
	Polymer Battery Energy: 3.85V, 10000mAh, 38.5Wh Rated Capacity: 6000mAh(5V==3A)	
	Mobile	
Product Type	⊠ Portable	
7.	Fix Location	
Test Sample No.	-1/2(Normal Sample), -2/2(Engineering Sample)	
Hardware Version	N/A	
Software Version	N/A	
	1) The above information are declared by the applicant, EU-LAB is not responsible	
Remark	for the information accuracy provided by the applicant.	
Toman	2) For a more detailed features description, please refer to the manufacturer's	
	specifications or the User's Manual.	



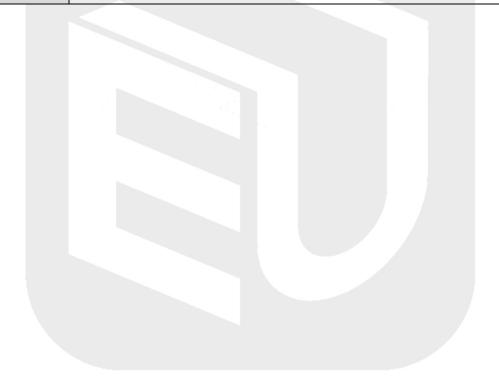
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### 2.5 Technical Information of E.U.T.

Network and Wireless Connectivity	Wireless Power Transfer (WPT)
--------------------------------------	-------------------------------

The requirement for the following technical information of the EUT was tested in this report:

Technology	WPT
Technology	Will
Operating Frequency	110.1-205KHz
Modulation Type	FSK
Antenna Type	Coil Antenna
Antenna Gain(Peak)	0 dBi
Remark	The above information is declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.





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# 3 Test Summary

#### 3.1 Test Standard

The tests were performed according to following standards:

No.	Identity	Document Title
1	47 CFR Part 1 Subpart I Section 1.1310	Radio frequency radiation exposure limits.
2	47 CFR Part 2, Subpart J, Section 2.1091	Radiofrequency radiation exposure evaluation: mobile devices
3	KDB 680106 D01v04	RF exposure consideration for low power consumer wireless power transfer applications.

#### Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

#### 3.2 Test Verdict

No.	Description	FCC Part No.	Verdict	Remark
1	RF Exposure Evaluation	FCC 1.1310 FCC 2.1091	Pass	
		KDB 680106 D01 Wireless Power Transfer v04		

## 3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited	
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China	
Designation Number	CN1368	
Test Firm Registration Number	952583	



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# 4 Test Configuration

#### 4.1 Test Environment

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

Relative Humidity	30% to 60%	
Atmospheric Pressure	86 kPa to 106 kPa	
Temperature	NT (Normal Temperature)	+15°C to +35°C
Working Voltage of the EUT	NV (Normal Voltage)	120 VAC, 60Hz

## 4.2 Test Equipment

Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200A	EE-405	2024/02/15	2025/02/14

Electric and Magnetic Field Probe - Analyzer EHP-200A detailed parameters are as follows.

Dynamic range         >80           SPAN         0 to FULL SPAN           RBW         1 kHz, 3 kHz, 10 kHz, 30 kHz, 100 kHz, 300 kHz           Measurement range         > 94 dB           Calibration         internal E2PROM           Temperature error         0.02 dB/°C           Dimensions         92 x 92 x 109 mm           Weight         550 g           Preamplifier         selectable ON/OFF, 14dB           Units         V/m, A/m, uT, mW/cm2, W/m2           Internal battery         3.7 V - 5.55 Ah Li-Ion, rechargeable           Operation         > 12 hours           Recharging time         < 8 hours	-					
RBW         1 kHz, 3 kHz, 10 kHz, 30 kHz, 100 kHz, 300 kHz           Measurement range         > 94 dB           Calibration         internal E2PROM           Temperature error         0.02 dB/°C           Dimensions         92 x 92 x 109 mm           Weight         550 g           Preamplifier         selectable ON/OFF, 14dB           Units         V/m, A/m, uT, mW/cm2, W/m2           Internal battery         3.7 V - 5.55 Ah Li-Ion, rechargeable           Operation         > 12 hours           Recharging time         < 8 hours           External supply         10 to 15 Vdc, I = approx. 560 mA           Optical fiber connection         up to 40 m (USB-OC)           up to 80 m (8053-OC)         Firmware updating           Firmware updating         through the optical link via EHP200-TS           Self test         automatic at power on           Operating temperature         -10°C to +50°C           Storage temperature         -20°C to +70°C	Dynamic range	>80				
Measurement range       > 94 dB         Calibration       internal E2PROM         Temperature error       0.02 dB/°C         Dimensions       92 x 92 x 109 mm         Weight       550 g         Preamplifier       selectable ON/OFF, 14dB         Units       V/m, A/m, uT, mW/cm2, W/m2         Internal battery       3.7 V - 5.55 Ah Li-Ion, rechargeable         Operation       > 12 hours         Recharging time       < 8 hours	SPAN	0 to FULL SPAN				
Calibration internal E2PROM  Temperature error 0.02 dB/°C  Dimensions 92 x 92 x 109 mm  Weight 550 g  Preamplifier selectable ON/OFF, 14dB  Units V/m, A/m, uT, mW/cm2, W/m2  Internal battery 3.7 V - 5.55 Ah Li-Ion, rechargeable  Operation > 12 hours  Recharging time < 8 hours  External supply 10 to 15 Vdc, I = approx. 560 mA  Optical fiber connection up to 40 m (USB-OC) up to 80 m (8053-OC)  Firmware updating through the optical link via EHP200-TS  Self test automatic at power on  Operating temperature -10°C to +50°C  Storage temperature -20°C to +70°C	RBW	1 kHz, 3 kHz, 10 kHz, 30 kHz, 100 kHz, 300 kHz				
Temperature error  Dimensions  92 x 92 x 109 mm  Weight  550 g  Preamplifier  selectable ON/OFF, 14dB  Units  V/m, A/m, uT, mW/cm2, W/m2  Internal battery  3.7 V - 5.55 Ah Li-Ion, rechargeable  Operation  > 12 hours  Recharging time  < 8 hours  External supply  10 to 15 Vdc, I = approx. 560 mA  Optical fiber connection  up to 40 m (USB-OC) up to 80 m (8053-OC)  Firmware updating  through the optical link via EHP200-TS  Self test  automatic at power on  Operating temperature  -10°C to +50°C  Storage temperature  -20°C to +70°C	Measurement range	> 94 dB				
Dimensions  92 x 92 x 109 mm  Weight  550 g  Preamplifier  selectable ON/OFF, 14dB  Units  V/m, A/m, uT, mW/cm2, W/m2  Internal battery  3.7 V - 5.55 Ah Li-Ion, rechargeable  Operation  > 12 hours  Recharging time  < 8 hours  External supply  10 to 15 Vdc, I = approx. 560 mA  Optical fiber connection  up to 40 m (USB-OC) up to 80 m (8053-OC)  Firmware updating  through the optical link via EHP200-TS  Self test  automatic at power on  Operating temperature  -10°C to +50°C  Storage temperature  -20°C to +70°C	Calibration	internal E2PROM				
Weight 550 g  Preamplifier selectable ON/OFF, 14dB  Units V/m, A/m, uT, mW/cm2, W/m2  Internal battery 3.7 V - 5.55 Ah Li-Ion, rechargeable  Operation > 12 hours  Recharging time < 8 hours  External supply 10 to 15 Vdc, I = approx. 560 mA  Optical fiber connection up to 40 m (USB-OC)  up to 80 m (8053-OC)  Firmware updating through the optical link via EHP200-TS  Self test automatic at power on  Operating temperature -10°C to +50°C  Storage temperature -20°C to +70°C	Temperature error	0.02 dB/°C				
Preamplifier  Selectable ON/OFF, 14dB  Units  V/m, A/m, uT, mW/cm2, W/m2  Internal battery  3.7 V - 5.55 Ah Li-Ion, rechargeable  Operation  Recharging time  < 8 hours  External supply  10 to 15 Vdc, I = approx. 560 mA  Optical fiber connection  up to 40 m (USB-OC) up to 80 m (8053-OC)  Firmware updating  through the optical link via EHP200-TS  Self test  automatic at power on  Operating temperature  -10°C to +50°C  Storage temperature  -20°C to +70°C	Dimensions	92 x 92 x 109 mm				
Units  V/m, A/m, uT, mW/cm2, W/m2  3.7 V - 5.55 Ah Li-Ion, rechargeable  Operation  > 12 hours  Recharging time  < 8 hours  External supply  10 to 15 Vdc, I = approx. 560 mA  Optical fiber connection  up to 40 m (USB-OC) up to 80 m (8053-OC)  Firmware updating  through the optical link via EHP200-TS  Self test  automatic at power on  Operating temperature  -10°C to +50°C  Storage temperature  -20°C to +70°C	Weight	550 g				
Internal battery  3.7 V - 5.55 Ah Li-Ion, rechargeable  Operation  > 12 hours <a href="#"> <a h<="" td=""><td>Preamplifier</td><td>selectable ON/OFF, 14dB</td></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>	Preamplifier	selectable ON/OFF, 14dB				
Operation       > 12 hours         Recharging time       < 8 hours	Units	V/m, A/m, uT, mW/cm2, W/m2				
Recharging time  < 8 hours  External supply  10 to 15 Vdc, I = approx. 560 mA  Up to 40 m (USB-OC) up to 80 m (8053-OC)  Firmware updating  through the optical link via EHP200-TS  Self test  automatic at power on  Operating temperature  -10°C to +50°C  Storage temperature  -20°C to +70°C	Internal battery	3.7 V - 5.55 Ah Li-Ion, rechargeable				
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Optical fiber connection  up to 40 m (USB-OC) up to 80 m (8053-OC)  Firmware updating  through the optical link via EHP200-TS  Self test  automatic at power on  Operating temperature  -10°C to +50°C  Storage temperature  -20°C to +70°C	Recharging time	< 8 hours				
up to 80 m (8053-OC)  Firmware updating through the optical link via EHP200-TS  Self test automatic at power on  Operating temperature -10°C to +50°C  Storage temperature -20°C to +70°C	External supply	10 to 15 Vdc, I = approx. 560 mA				
Self test     automatic at power on       Operating temperature     -10°C to +50°C       Storage temperature     -20°C to +70°C	Optical fiber connection					
Operating temperature -10°C to +50°C Storage temperature -20°C to +70°C	Firmware updating	through the optical link via EHP200-TS				
Storage temperature -20°C to +70°C	Self test	automatic at power on				
	Operating temperature	-10°C to +50°C				
Environmental protection IP42	Storage temperature	-20°C to +70°C				
	Enviromental protection	IP42				



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#### 4.3 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was prescanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned bellow was evaluated respectively.

mode(s	mentioned bellow was evaluated respectively.	
No.	Description	Remark
TM1	Wireless Output (5W) + Empty Load	
TM2	Wireless Output (5W) + Half Load	
TM3	Wireless Output (5W) + Full Load	
TM4	Wireless Output (7.5W) + Empty Load	
TM5	Wireless Output (7.5W) + Half Load	
TM6	Wireless Output (7.5W) + Full Load	
TM7	Wireless Output (10W) + Empty Load	
TM8	Wireless Output (10W) + Half Load	
TM9	Wireless Output (10W) + Full Load	
TM10	Wireless Output (15W) + Empty Load	Record
TM11	Wireless Output (15W) + Half Load	
TM12	Wireless Output (15W) + Full Load	
TM13	Standby	
N1.4.		

#### Note:

### 4.4 Measurement Uncertainty

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

Test Item	Measurement Uncertainty
Magnetic field measurements(3kHz~10MHz)	±14.6%
Electric field measurements(3kHz~10MHz)	±17.3%

<sup>1.</sup> All the conditions have been tested. It is found that TM10 is the worst mode, and the data in the report only reflects the worst mode.



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## 5 Test Methodology

#### 5.1 Reference Evaluation Method

- ANSI C95.1-1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3kHz to 300GHz.
- ♦ FCC KDB publication 680106 D01 RF Exposure Wireless Charging Apps v04: RF Exposure Considerations for Low Power Consumer Wireless Power Transfer Applications
- ♦ FCC CFR 47 Part 1.1310: Radiofrequency radiation exposure limits.
- ♦ FCC CFR 47 Part 2.1093: Radiofrequency radiation exposure evaluation: portable devices
- ♦ FCC CFR 47 Part 18.107: Industrial, Scientific, and Medical Equipment
- April 2024 TCBC Workshop: Part 18 Wireless Power Transfer Devices: Clarifications on KDB 680106v04 and ECR Processes.

#### 5.2 Limit

According to FCC CFR 47 § 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

TABLE 1 TO § 1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
	(i) Limits	s for Occupational/Controlled Exposure		
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
	(ii) Limits for	General Population/Uncontrolled Exposu	re	
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

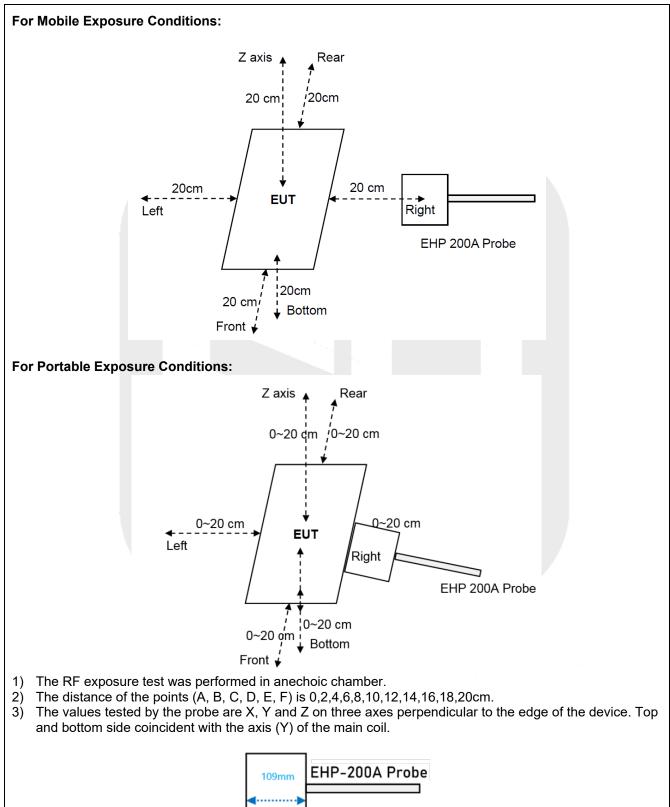
f = frequency in MHz. \* = Plane-wave equivalent power density.

Note 1: Occupational/ controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.



## 5.3 Test Setup Diagram



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Note: The EHP-200A Probe has a diameter of 10.9cm and a radius of 5.45cm.

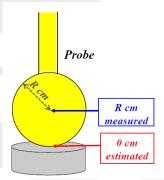
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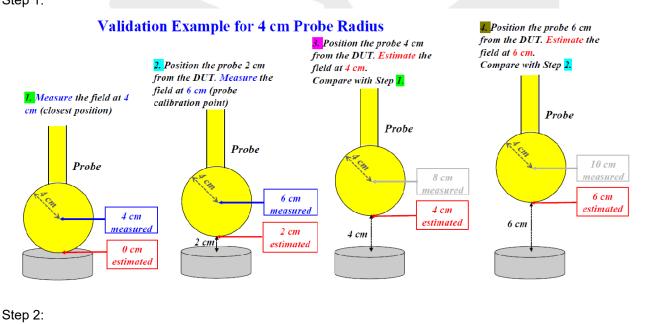
#### 5.4 Measurement Procedure

#### For Portable Exposure Conditions:

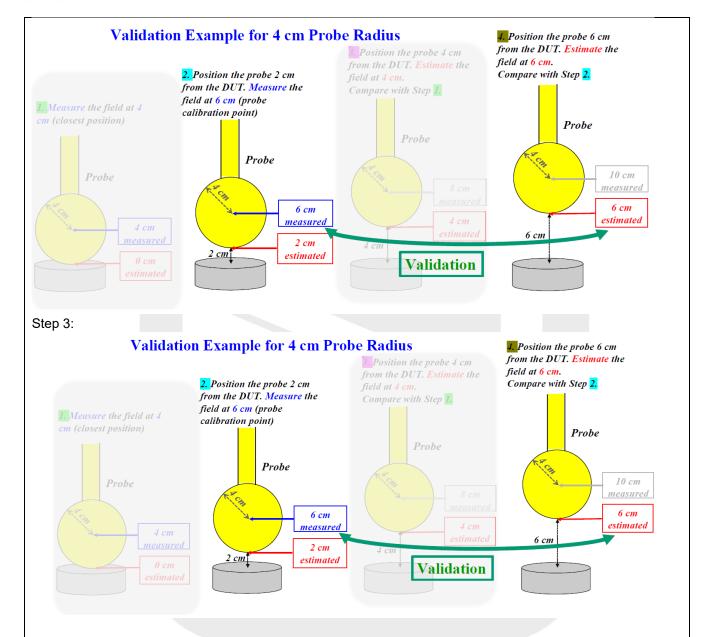
- 1) The portable test modes have covered the considerations of the mobile test, only record the test data of the portable conditions in this report.
- 2) Operating modes with client device (1%, 50%, 99% battery status of client device), have been tested, only show the data of worst case of 1% battery status of client device.
- 3) Test performed with all the radiating structures operating at maximum power at the same time.
- 4) E-field and H-field measurements are taken along all three axes the device from 0cm to 20cm in 2cm minimum increment for each edge surface of the host/client pair. If the center of the probe sensing elements is more than 5mm from the probe outer edge, the field strengths need to be estimated for the positions that are not reachable.
- 5) Validation of Field Estimates
- a) If R is the probe radius and the probe tip is in contact with the coil, then the probe center is R cm from the coil surface as bellow picture:



- b) The probe then is measuring the field correctly at R cm from the surface, and only estimating the field at the 0 cm point of contact with the coil surface.
- c) The validation requires showing that the model used to estimate the field provides data within 30% accuracy for at least the two, 2-cm-spaced closest points to where the estimates were made.
- d) If there is only on estimated value, then a single validation point is sufficient.
- e) Validation Example for 4 cm Probe Radius as following Step 1:



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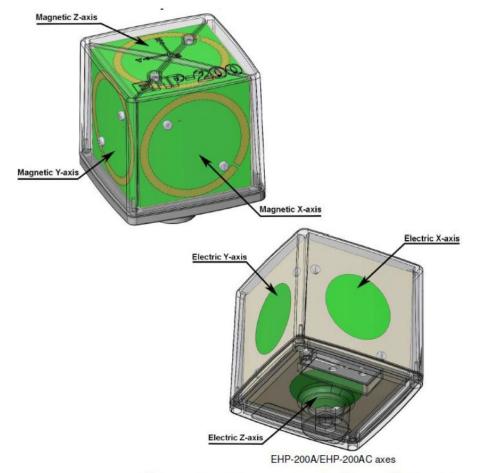
Description of the Validation Example for 4 cm Probe Radius

- Assume that R=4 cm. The field at 0 cm can only be estimated, but the field at 4 cm is measured exactly (at the center of the probe)
- Move the probe at 2 cm from the surface. The field at 2 cm can still only be estimated, but the field at 6 cm is measured exactly.
- Compare the estimate with the values at the same positions where the field was measured exactly (i.e. 4 cm and 6 cm)
- The difference between measurements and estimates needs to be no more than 30%.
- The validation of the estimates needs to be for the two closest points to the coil, but at least 2 cm apart (in this case they are). This is to avoid a validation at, say 2 cm and another on at 2.1cm, that is essentially a repetition.
- 6) According to Calibration information and specification about EHP-200A Probe, the probe's sensitive elements center are 8mm below the external surface, and the dimensions is 92\*92\*109mm, so the actual 0cm field strengths need to be estimated for the positions that are not reachable, only the result of test distance 2cm~20cm was measured value. The Extrapolated Value Calculation Method is described below.



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Length	Width	Height
(mm)	(mm)	(mm)
109	92	

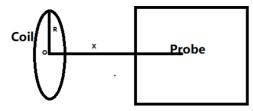


The sensitive elements are located approximately 8 mm below the external surface

Estimated method for portable RF Exposure condition:

We use Biot-Savart formula theory to estimate the strength of the magnetic field that the measuring instrument cannot measure. According to Biot-Savart formula:

Top & Bottom Side:



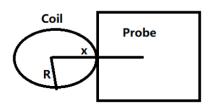
$$B = \frac{\mu_0 * I * N * R^2}{2 * (R^2 + x^2)^{3/2}}$$

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#### Front, left, right & rear Side:



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

Where:

B: means H-field value.

 $\mu_0$ : space permeability; u0=4 $\pi$ \*10<sup>-7</sup>:

I: A current element passing through a coil:

R: means the Radius of coil;

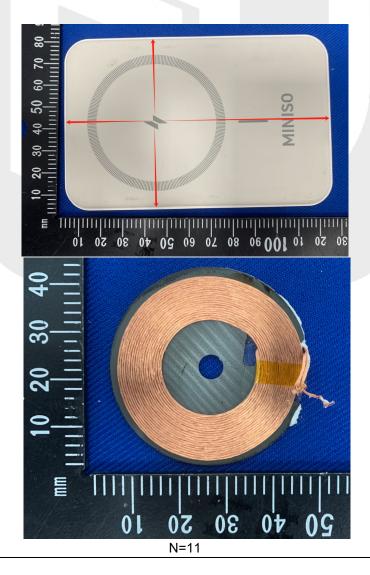
Test Distance: The distance from the sensing element of the probe to the edge of the device surface

x: means the center of the coil to the sensing elements of the probe. (For top & bottom side: x=test distance.

For other side: x=test distance +R)

N: Number of turns.

#### The conditions of EUT:





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#### For validation purposes:

If the value to show a **30% agreement** between the model and the (E-and/or H-Field) probe measurements for the two closest points to the device surface, and with 2cm increments. Then this extrapolation method is reasonable.

#### Validation:

Magnetic Field Emissions								
Test Distance (cm) Top Bottom Front Rear Left Right Conclusion								
2cm(estimated) (A/m)	0.3489	0.2993	0.2256	0.2271	0.1495	0.2584	O a manufi a m a a	
2cm(measured) (A/m)	0.4283	0.3656	0.2477	0.2415	0.1594	0.2887	Compliance within 30%	
Agreement (%)	20.43	19.94	9.34	6.15	6.41	11.08	WIGHT 50 70	

Magnetic Field Emissions								
Test Distance (cm) Top Bottom Front Rear Left Right Conclusion								
4cm(estimated) (A/m)	0.2276	0.2053	0.1778	0.1735	0.1368	0.2173	O a man li a m a a	
4cm(measured) (A/m)	0.2424	0.2251	0.2012	0.1983	0.1437	0.2392	Compliance within 30%	
Agreement (%)	6.30	9.20	12.35	13.34	4.92	9.59	Within 3070	

#### Note:

- 1. The percent ratio of agreement is the difference between the estimated and measured values divided by the average of the estimated and measured values.
- 2. EUT is a loop/coil emitting structure, so E-field not required. Just record the H-field value.



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#### 5.5 Evaluation Result

Test Condition: Test Mode 10 operating with client device (1% battery status of client device)

Test Condition. Test mode to operating with client device (170 battery status of client device)									
Distance			H-Field Results (A/m)					Conclusion	
(cm)	(cm) Top	Bottom	Left	Right	Front	Back	(A/m)	Conclusion	
0	0.6035	0.4717	0.3154	0.3095	0.1988	0.3372	1.63	Compliance	
2	0.4283	0.3656	0.2477	0.2415	0.1594	0.2887	1.63	Compliance	
4	0.2424	0.2251	0.2012	0.1983	0.1437	0.2392	1.63	Compliance	
6	0.2070	0.1871	0.1515	0.1539	0.1224	0.1906	1.63	Compliance	
8	0.1956	0.1673	0.1268	0.1305	0.1077	0.1617	1.63	Compliance	
10	0.1793	0.1530	0.1042	0.1158	0.0818	0.1448	1.63	Compliance	
12	0.1616	0.1379	0.0865	0.0817	0.0599	0.1244	1.63	Compliance	
14	0.1533	0.1222	0.0641	0.0721	0.0476	0.1010	1.63	Compliance	
16	0.1465	0.1198	0.0547	0.0583	0.0329	0.0738	1.63	Compliance	
18	0.1383	0.1143	0.0438	0.0462	0.0283	0.0651	1.63	Compliance	
20	0.1274	0.1035	0.0326	0.0377	0.0221	0.0529	1.63	Compliance	

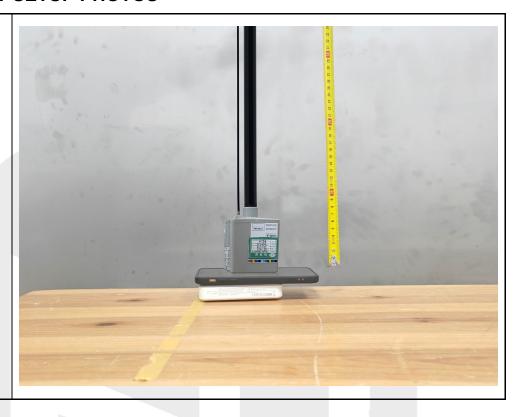


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# ANNEX A TEST SETUP PHOTOS

### **PHOTO 1**

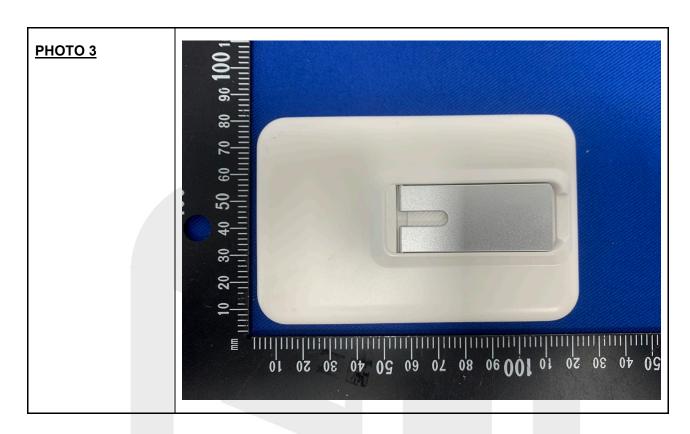
Test Position: Top Distance: 0cm



## **PHOTO 2**



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#### **STATEMENT**

- 1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
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- 4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
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--- End of Report ---