

# Test Report

**Report No.** : MTi250207006-0105E2

**Date of Issue** : 2025-03-24

**Applicant** : Shenzhen Allsight E-business Co.Ltd

**Product** : 5000mAh Wireless Charging Power Bank

**Model(s)** : PB-MS07

**FCC ID** : 2BMQ9-PBMS07

**Shenzhen Microtest Co., Ltd.**

**Table of contents**

<b>1</b>	<b>General Description .....</b>	<b>4</b>
1.1	Description of the EUT .....	4
1.2	Description of test modes .....	4
1.3	Description of support units .....	5
<b>2</b>	<b>Measurement uncertainty .....</b>	<b>5</b>
<b>3</b>	<b>Test facilities and accreditations.....</b>	<b>5</b>
3.1	Test laboratory .....	5
<b>4</b>	<b>List of test equipment .....</b>	<b>6</b>
<b>5</b>	<b>Test result .....</b>	<b>7</b>
5.2	Test setup .....	8
5.3	Test Procedures.....	8
5.4	Information of test equipment.....	9
5.5	Test results.....	10
	<b>Photographs of the Test Setup.....</b>	<b>18</b>
	<b>Photographs of the EUT .....</b>	<b>18</b>

<b>Test Result Certification</b>		
Applicant	Shenzhen Allsight E-business Co.Ltd	
Applicant Address	Room 116, Kangli Information Valley Building, Longgang District, Shenzhen, China	
Manufacturer	AuGroup (SHENZHEN) Cross-Border Business Co., Ltd.	
Manufacturer Address	Room 106, Kangli Information Valley Building, No. 66 Pingji Avenue, Shanglilang Community, Nanwan Street, Longgang District, Shenzhen	
<b>Product description</b>		
Product name	5000mAh Wireless Charging Power Bank	
Trademark	AUKEY	
Model name	PB-MS07	
Series Model(s)	N/A	
Standards	FCC CFR 47 PART 1, § 1.1310 Part 2.1093	
Test method	KDB 680106 D01 Wireless Power Transfer v04	
<b>Testing Information</b>		
Date of test	2025-02-19 to 2025-02-21	
Test Result	Pass	
Prepared by	Maleah Deng	
Reviewed by	David Lee	
Approved by	Lewis Lian	

## 1 General Description

### 1.1 Description of the EUT

Product name:	5000mAh Wireless Charging Power Bank
Model name:	PB-MS07
Series Model:	N/A
Model difference:	N/A
Electrical rating:	Input: DC 5V 3A, DC 9V 2A USB-C Output: DC 5V3A, DC 9V2.22A, DC 12V1.67A Wireless Output: 5W, 7.5W, 10W, 15W Max Output: 20W Battery: DC 3.6V 5000mAh
Accessories:	Cable: USB-C to USB-C cable 30cm *1
Hardware version:	V1.0
Software version:	V1.0
Test sample(s) number:	MTi250207006-01-R002
<b>RF specification:</b>	
Operation frequency:	115-205kHz(5W, 7.5W, 10W); 360kHz(15W)
Modulation type:	ASK
Antenna type:	Coil Antenna

### 1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

No.	Emission test modes
Mode1	Charging+Wireless Output(5W)
Mode2	Wireless Output(5W)
Mode3	Wireless Output(7.5W)
Mode4	Wireless Output(10W)
Mode5	Wireless Output(15W)
Mode6	Stand by



### 1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list			
Description	Model	Serial No.	Manufacturer
HUAWEI QUICK CHARGE(65W)	HW-200200ZP1	JN67LSN7N03451	HUAWEI
Smartphone	iPhone 15	/	Apple
Smartphone	iPhone 13	/	Apple
Support cable list			
Description	Length (m)	From	To
/	/	/	/

## 2 Measurement uncertainty

Parameter	Expanded Uncertainty
Magnetic field measurements(3kHz~10MHz)	$\pm 14.8\%$
Electric field measurements(3kHz~10MHz)	$\pm 17.5\%$

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

## 3 Test facilities and accreditations

### 3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573



### 4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTI-E143	Near-field Electric and Magnetic Field Sensor System	SPEAG	MAGPy-8H3 D+ED3	3101	2024/3/12	2027/3/11

No.	Equipment	Manufacturer	Model	Software version:	Cal. date	Cal. Due
MTI-E016S	MPE test software	SPEAG	MAGPY 2.6	2.6	/	/



## 5 Test result

### 5.1.1 Requirement

§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)
<b>(i) Limits for Occupational/Controlled Exposure</b>				
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
300-1500			f/300	<6
1500-100000			5	<6
<b>(ii) Limits for General Population/Uncontrolled Exposure</b>				
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
300-1500			f/1500	<30
1500-100000			1.0	<30

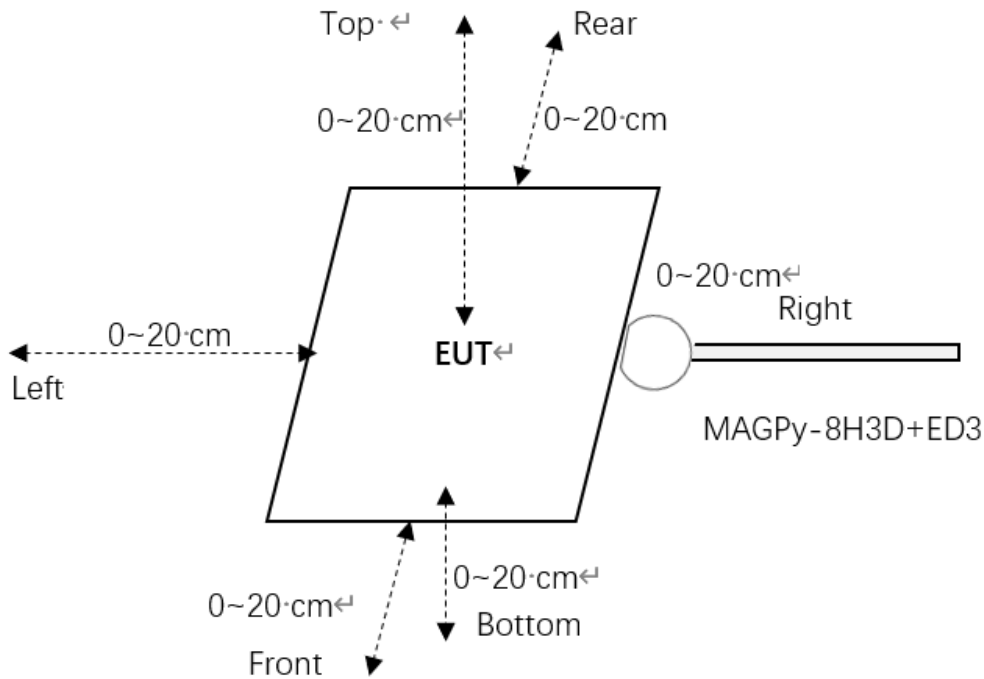
f = frequency in MHz

\* = 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.

## 5.2 Test setup



Note: tips mode of the test probe is used for 0cm measurement.

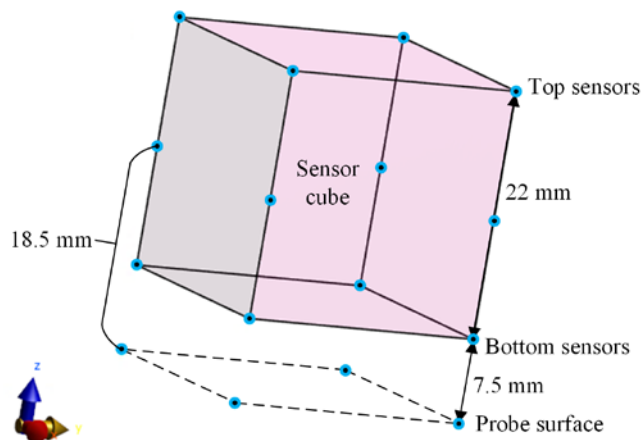
## 5.3 Test Procedures

a. H-field measurements should be taken 0 cm ~ 20 cm with 2 cm increments from the center of the probe.

The center of the probe to the tip surface of the probe is 18.5 mm, so the directly testing can be performed at the probe center from 2 cm to 20 cm.


To measure the 0 cm H-field, the probe tip mode is used. The total H-field at the tip-surface  $H_{tip-surface}$  can be extrapolated using the total H-field measured at the top and bottom sensors,  $H_{top}$  and  $H_{bottom}$ , as well as the normalized H-field gradient  $G_n$ . The field extrapolation formula is a polynomial function of  $G_n$  ( $\Delta d = 18.5$  mm)

$$H_{tip-surface} = \frac{H_{bottom} + H_{top}}{2} \sum_{i=0}^7 c_i (G_n \Delta d)^i$$





## 5.4 Information of test equipment

Test equipment: MAGPy-8H3D+ED3	
Diameter	60mm
8 isotropic H-field sensors	Concentric loops of 1cm <sup>2</sup> arranged at the corner of a cube of 22mm side length
1 isotropic E-field sensor	Orthogonal dipole/monopole (arm length: 50mm)
Measurement center	18.5mm from the probe tip
Dimensions	110*635*35mm (MAGPy-8H3D+E3D V2 & MAGPy-DAS V2)
	

Test probe, without the casing

Item	Specification
Test frequency range:	3kHz ~ 10MHz
Probe sensitivity	E-field: 0.08-2000 V/m H-field: 0.1-3200 A/m
Probe level response	E-field: $\pm 1$ dB H-field: $\pm 1$ dB
linearity error	E-field: $\pm 0.3$ dB H-field: $\pm 0.3$ dB
Isotropy	E-field: $\pm 0.8$ dB H-field: $\pm 0.6$ dB

## 5.5 Test results

All client power has been assessed (1%,50%, 99%), and the 1% battery status of client device was the worst.

Test condition 1: Mode3 operating mode with client device (1 % battery status of client device)

-estimated value: 0cm

Estimated value for H-Filed Strength at 0 cm from the edges surrounding the EUT (A/m)

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	1.6	1.63	98.16%
Left	1.38		
Right	1.32		
Front	1.45		
Rear	1.17		
Bottom	0.62		

Test condition 2: Mode3 operating mode with client device (1 % battery status of client device)

- Test distance: 2cm

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	1.55	1.63	95.09%
Left	1.23		
Right	1.26		
Front	1.14		
Rear	1.09		
Bottom	0.36		



Test condition 2: Mode3 operating mode with client device (1 % battery status of client device)

- Test distance: 4cm

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	1.17	1.63	71.78%
Left	0.86		
Right	1.13		
Front	1.02		
Rear	0.97		
Bottom	0.15		

Test condition 2: Mode3 operating mode with client device (1 % battery status of client device)

- Test distance: 6cm

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.85	1.63	52.15%
Left	0.41		
Right	0.74		
Front	0.62		
Rear	0.59		
Bottom	0.09		

Test condition 2: Mode3 operating mode with client device (1 % battery status of client device)

- Test distance: 8cm

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.43	1.63	26.38%
Left	0.26		
Right	0.37		
Front	0.29		
Rear	0.25		
Bottom	0.4		

**Test condition 2: Mode3 operating mode with client device (1 % battery status of client device)**

**- Test distance: 10cm**

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.26	1.63	15.95%
Left	0.15		
Right	0.12		
Front	0.11		
Rear	0.13		
Bottom	0.01		

**Test condition 2: Mode3 operating mode with client device (1 % battery status of client device)**

**- Test distance: 12cm**

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.22	1.63	13.5%
Left	0.13		
Right	0.10		
Front	0.09		
Rear	0.11		
Bottom	0.01		

**Test condition 2: Mode3 operating mode with client device (1 % battery status of client device)**

**- Test distance: 14cm**

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.147	1.63	9.02%
Left	0.087		
Right	0.067		
Front	0.060		
Rear	0.074		
Bottom	0.007		



Test condition 2: Mode3 operating mode with client device (1 % battery status of client device)

- Test distance: 16cm

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.084	1.63	5.15%
Left	0.050		
Right	0.038		
Front	0.034		
Rear	0.042		
Bottom	0.004		

Test condition 2: Mode3 operating mode with client device (1 % battery status of client device)

- Test distance: 18cm

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.031	1.63	1.9%
Left	0.019		
Right	0.014		
Front	0.013		
Rear	0.016		
Bottom	0.001		

Test condition 2: Mode3 operating mode with client device (1 % battery status of client device)

- Test distance: 20cm

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.0053	1.63	0.33%
Left	0.0032		
Right	0.0024		
Front	0.0022		
Rear	0.0027		
Bottom	0.0002		



All client power has been assessed (1%,50%, 99%), and the 1% battery status of client device was the worst.

Test condition 1: Mode5 operating mode with client device (1 % battery status of client device)

-estimated value: 0cm

Estimated value for H-Filed Strength at 0 cm from the edges surrounding the EUT (A/m)

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	1.04	1.63	93.25%
Left	0.25		
Right	0.98		
Front	1.52		
Rear	1.39		
Bottom	0.33		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)

- Test distance: 2cm

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.68	1.63	59.51%
Left	0.21		
Right	0.97		
Front	0.86		
Rear	0.83		
Bottom	0.18		



**Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)**

**- Test distance: 4cm**

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.41	1.63	31.29%
Left	0.150		
Right	0.51		
Front	0.43		
Rear	0.41		
Bottom	0.11		

**Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)**

**- Test distance: 6cm**

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.23	1.63	14.11%
Left	0.100		
Right	0.23		
Front	0.21		
Rear	0.22		
Bottom	0.05		

**Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)**

**- Test distance: 8cm**

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.12	1.63	7.98%
Left	0.04		
Right	0.13		
Front	0.11		
Rear	0.1		
Bottom	0.01		

**Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)**

**- Test distance: 10cm**

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.05	1.63	3.07%
Left	0.009		
Right	0.02		
Front	0.03		
Rear	0.02		
Bottom	0.007		

**Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)**

**- Test distance: 12cm**

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.0385	1.63	2.36%
Left	0.0069		
Right	0.0154		
Front	0.0231		
Rear	0.0154		
Bottom	0.0054		

**Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)**

**- Test distance: 14cm**

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.0216	1.63	1.33%
Left	0.0039		
Right	0.0086		
Front	0.0129		
Rear	0.0086		
Bottom	0.0030		

**Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)**

**- Test distance: 16cm**

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.0093	1.63	0.57%
Left	0.0017		
Right	0.0037		
Front	0.0055		
Rear	0.0037		
Bottom	0.0013		

**Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)**

**- Test distance: 18cm**

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.0038	1.63	0.23%
Left	0.0007		
Right	0.0015		
Front	0.0023		
Rear	0.0015		
Bottom	0.0005		

**Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)**

**- Test distance: 20cm**

Probe Position	H-field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.0024	1.63	0.15%
Left	0.0004		
Right	0.0010		
Front	0.0015		
Rear	0.0010		
Bottom	0.0003		



### Photographs of the Test Setup

See the Appendix - Test Setup Photos.

### Photographs of the EUT

See the Appendix - EUT Photos.

## Statement

1. This report is invalid without the seal and signature of the laboratory.
2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
3. The report shall not be partially reproduced without the written consent of the Laboratory.
4. This report is invalid if transferred, altered or tampered with in any form without authorization.
5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

\*\*\*\*\* END OF REPORT \*\*\*\*\*