

Test Report

Report No. : MTi251216021-0108E2
Date of Issue : 2026-05-20
Applicant : Shenzhen Aquilstar Technology Co., Ltd.
Product : Magnetic Wireless Power Bank
Model(s) : ASYP5
FCC ID : 2BUL3-ASYP5

Shenzhen Microtest Co., Ltd.

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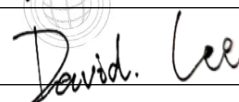
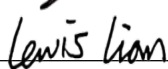
Test Result Certification

Applicant	Shenzhen Aquilstar Technology Co., Ltd.
Applicant Address	101 of B Building, B&C Building, No.1 Plant, Lingxia Road, Fenghuang Community, Fuyong Street, Bao'an District, Shenzhen City, China
Manufacturer	Shenzhen Aquilstar Technology Co., Ltd.
Manufacturer Address	101 of B Building, B&C Building, No.1 Plant, Lingxia Road, Fenghuang Community, Fuyong Street, Bao'an District, Shenzhen City, China
Factory 1	Shenzhen Aquilstar Technology Co., Ltd.
Factory Address	101 of B Building, B&C Building, No.1 Plant, Lingxia Road, Fenghuang Community, Fuyong Street, Bao'an District, Shenzhen City, China
Factory 2	AQUILSTAR TECHNOLOGY (VIET NAM) CO.,LTD
Factory Address	Hamlet Ve, Ninh Giang Commune , Hai Phong City, Viet Nam.

Product description

Product name	Magnetic Wireless Power Bank
Trademark	Shenzhen Aquilstar Technology Co., Ltd., cellhelmet
Model name	ASYP5
Series Model(s)	N/A
Standards	FCC CFR 47 PART 1, § 1.1310 FCC CFR 47 Part 2.1093
Test method	KDB 680106 D01 Wireless Power Transfer v04

Testing Information

Date of test	2026-01-04 to 2026-05-16	
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:	Magnetic Wireless Power Bank
Model name:	ASYP5
Series Model:	N/A
Model difference:	N/A
Electrical rating:	Input: DC 5V/2.4A, DC 9V/2A, 18W Max USB-C Output: DC 5V/3A, DC 9V/2.22A, DC 12V/1.67A, 20.04W Max Wireless Output: 15W Max Total Output: DC 5V/3A(15W Max) Battery: DC 3.7V/ 5000mAh
Accessories:	N/A
Hardware version:	V1.6
Software version:	IP5356M(U1): IP5356M_LCLOWU_ASY5_AA_S IP6802B(U2):IP6802B_PP_MPP_ASY5_ZCQTT
Test sample(s) number:	MTi251216021-01-E001, MTi251216021-01-R001
RF specification:	
Operation frequency:	115-205kHz(5W, 7.5W, 10W, 15W EPP); 360kHz(15W MPP)
Modulation type:	FSK
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	Charging+Wireless Output(7.5W)
Mode3	Charging+Wireless Output(10W)
Mode4	Charging+Wireless Output(15W EPP)
Mode5	Charging+Wireless Output(15W MPP)
Mode6	Wireless Output(5W)
Mode7	Wireless Output(7.5W)
Mode8	Wireless Output(10W)
Mode9	Wireless Output(15W EPP)
Mode10	Wireless Output(15W MPP)
Mode11	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
Mobile phone	Find X3	/	OPPO
Mobile phone	iPhone 16 promax	/	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+E3D	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 ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1500			f/300	<6
1500-100000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1500			f/1500	<30
1500-100000			1.0	<30

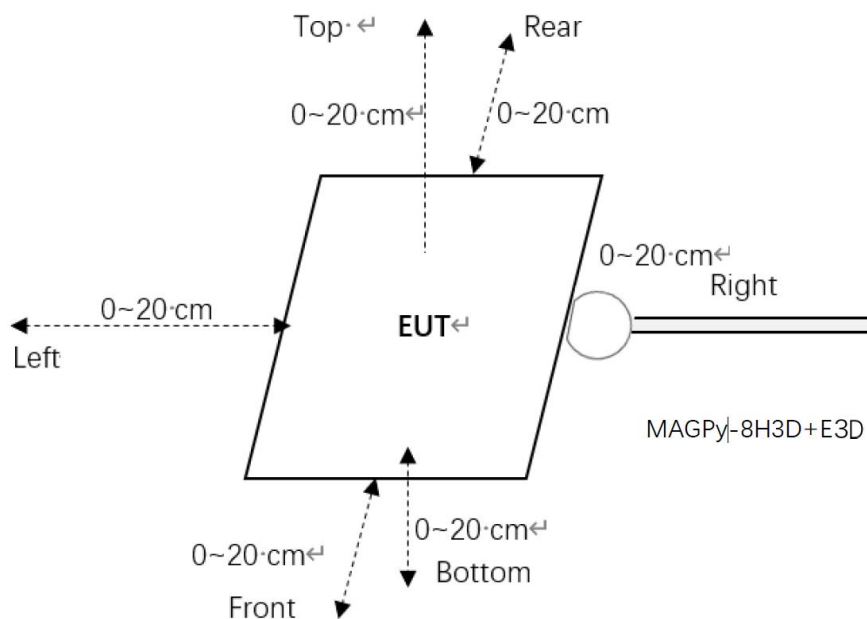
f = frequency in MHz

* = 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.

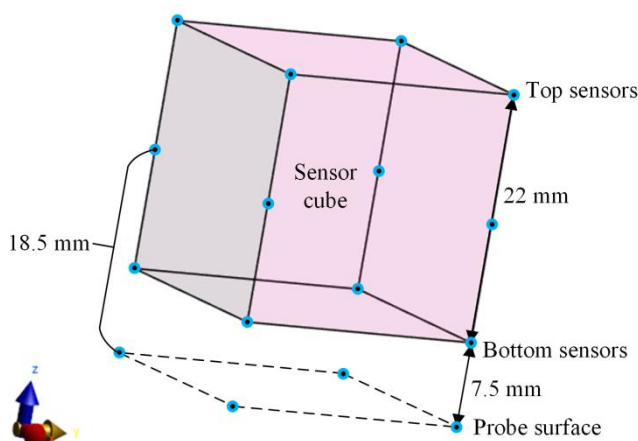
5.3 Test Procedures

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)

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



5.4 Information of test equipment

Test equipment: MAGPy-8H3D+E3D	
Diameter	60mm
8 isotropic H-field sensors	Concentric loops of 1cm ² 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: ±1dB H-field: ±1dB
linearity error	E-field: ±0.3dB H-field: ±0.3dB
Isotropy	E-field: ±0.8dB H-field: ±0.6dB

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: Mode9 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	1.61	1.63	98.77%
Left	1.27		
Right	1.12		
Front	1.17		
Rear	1.29		
Bottom	0.46		

Test condition 1: Mode9 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	0.73	1.63	77.91%
Left	1.23		
Right	0.77		
Front	0.7		
Rear	1.27		
Bottom	0.22		

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Test condition 1: Mode9 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	0.39	1.63	46.63%
Left	0.76		
Right	0.37		
Front	0.35		
Rear	0.67		
Bottom	0.13		

Test condition 1: Mode9 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	0.15	1.63	22.09%
Left	0.36		
Right	0.19		
Front	0.18		
Rear	0.32		
Bottom	0.08		

Test condition 1: Mode9 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	0.08	1.63	10.43%
Left	0.17		
Right	0.09		
Front	0.1		
Rear	0.16		
Bottom	0.04		

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Test condition 1: Mode9 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	6.13%
Left	0.1		
Right	0.05		
Front	0.06		
Rear	0.09		
Bottom	0.03		

Test condition 1: Mode9 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	0.044	1.63	5.34%
Left	0.087		
Right	0.044		
Front	0.052		
Rear	0.078		
Bottom	0.026		

Test condition 1: Mode9 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	0.034	1.63	4.00%
Left	0.065		
Right	0.033		
Front	0.039		
Rear	0.059		
Bottom	0.020		

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Test condition 1: Mode9 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	0.019	1.63	2.28%
Left	0.037		
Right	0.019		
Front	0.022		
Rear	0.033		
Bottom	0.011		

Test condition 1: Mode9 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	0.008	1.63	0.89%
Left	0.015		
Right	0.007		
Front	0.009		
Rear	0.013		
Bottom	0.004		

Test condition 1: Mode9 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	0.0017	1.63	0.20%
Left	0.0033		
Right	0.0017		
Front	0.0020		
Rear	0.0030		
Bottom	0.0010		

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Test condition 1: Mode10 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	0.08	1.63	58.28%
Left	0.53		
Right	0.54		
Front	0.52		
Rear	0.42		
Bottom	0.95		

Test condition 1: Mode10 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	0.05	1.63	12.88%
Left	0.21		
Right	0.15		
Front	0.12		
Rear	0.09		
Bottom	0.16		

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Test condition 1: Mode10 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	0.02	1.63	5.52%
Left	0.09		
Right	0.06		
Front	0.05		
Rear	0.04		
Bottom	0.06		

Test condition 1: Mode10 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	0.01	1.63	3.07%
Left	0.05		
Right	0.03		
Front	0.02		
Rear	0.02		
Bottom	0.03		

Test condition 1: Mode10 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	0.006	1.63	1.23%
Left	0.02		
Right	0.01		
Front	0.01		
Rear	0.01		
Bottom	0.01		

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Test condition 1: Mode10 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	0.005	1.63	0.61%
Left	0.009		
Right	0.009		
Front	0.01		
Rear	0.007		
Bottom	0.008		

Test condition 1: Mode10 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	0.0029	1.63	0.46%
Left	0.0052		
Right	0.0052		
Front	0.0075		
Rear	0.0041		
Bottom	0.0046		

Test condition 1: Mode10 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	0.0024	1.63	0.39%
Left	0.0043		
Right	0.0035		
Front	0.0063		
Rear	0.0034		
Bottom	0.0039		

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Test condition 1: Mode10 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	0.0018	1.63	0.29%
Left	0.0032		
Right	0.0026		
Front	0.0047		
Rear	0.0025		
Bottom	0.0029		

Test condition 1: Mode10 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	0.0009	1.63	0.14%
Left	0.0016		
Right	0.0013		
Front	0.0023		
Rear	0.0012		
Bottom	0.0014		

Test condition 1: Mode10 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	0.0005	1.63	0.07%
Left	0.0008		
Right	0.0007		
Front	0.0012		
Rear	0.0006		
Bottom	0.0007		

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 *****