

Test Report

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Report No. : MTi250219007-0803E2

Date of Issue : 2025-03-25

Applicant : **OXAA Corp.**

Product : 4- in- 1 Foldable Wireless Charging Power Bank

Model(s) : OXWC1351, OXWC2351

FCC ID : 2BNYA-OXWC1351

Shenzhen Microtest Co., Ltd.

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TEST REPORT

Report No.: MTi250219007-0803E2

Microtest

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Table of contents

1 General Description		
1.1 Description of the EUT		
3 Test facilities and accreditations		
3.1 Test laboratory 4 List of test equipment		
5 Test result		
5.2 Test setup		
Photographs of the EUT	1	



Report No.: MTi250219007-0803E2

Applicant	OXAA Corp.		
Applicant Address	6-3545 Odyss	sey Dr, Mississauga,	ON L5M 2S4, Canada
Manufacturer	OXAA Corp.	· Oto	25
Manufacturer Address	6-3545 Odyss	sey Dr, Mississauga,	ON L5M 2S4, Canada
Factory	Shenzhen Aodehong Electronic Technology Co.,Ltd.		
Factory Address		gant Industrial Park, I ang District, Shenzhe	No.8 Liuhe Road, Liuyue,Henggang n,China
Product description			
Product name	4- in- 1 Foldal	ble Wireless Chargin	g Power Bank
Trademark	OXAA	"CLOR	
Model name	OXWC1351		
Series Model(s)	OXWC2351		
Standards	FCC CFR 47 FCC CFR 47	PART 1, § 1.1310 PART 2.1093	: CYO'te
Test method	KDB 680106	D01 Wireless Powe	r Transfer v04
Testing Informatio	n		
Date of test	2025-02-25 to	2025-03-21	
Test Result	Pass	ick Offe	
Prepared by:		Yanice.Xie	Yanice Xie
Reviewed by:		David Lee	David Cel
Approved by:		Lewis Lian	Yanice Xie Dewid. Lee Lewis Lian
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TEST REPORT

Report No.: MTi250219007-0803E2

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1 General Description

1.1 Description of the EUT

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Product name:	4- in- 1 Foldable Wireless Charging Power Bank
Model name:	OXWC1351
Series Model:	OXWC2351
Model difference:	All the models are the same circuit and module, except the model name and color.
Electrical rating:	Input:QC/PD 18W Min Type-C Battery Capacity:8000mAh Output:5W/7.5W/10W(Smart Phone) Output:5W(Earbuds) Output:2W(Smart Watch)
Accessories:	Cable: Type-C to Type-C 1.2m*1
Hardware version:	1.0
Software version:	1.0
Test sample(s) number:	MTi250219007-08-R001
RF specification:	Micro
Operation frequency:	Coil 1:115-205kHz Coil 2:115-205kHz Coil 3:300-350kHz
Modulation type:	ASK
Antenna type:	Coil
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Report No.: MTi250219007-0803E2

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:

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No.	Emission test modes
Mode1	Wireless output(5W)+Earbuds(5W)+Watch(2W)
Mode2	Wireless output(7.5W)+Earbuds(5W)+Watch(2W)
Mode3	Wireless output(10W)+Earbuds(5W)+Watch(2W)
Mode4	Charing+Wireless output(5W)+Earbuds(5W)
Mode5	Charing+Wireless output(5W)+Watch(2W)
Mode6	Charing+Wireless output Earbuds(5W)+Watch(2W)
Mode7	Charing+Wireless output(5W)
Mode8	Charing+Wireless output(7.5W)
Mode9	Charing+Wireless output(10W)
Mode10	Charing+Wireless Watch(2W)
Mode11	Charing+Wireless Earbuds(5W)
Mode12	Standby

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.

Description	Model	Serial No.	Manufacturer
HUAWEI QUICK CHARGE	HW-200200ZP1	JN67LSN7N03451	HUAWEI
Watch	iWatch SE	FH7PP6BAG91J6	Apple
Air Pods	MQD83CH/A	1	Apple
Moible Phone	S9+	1	Samsung
Support cable list			: COTO
Description	Length (m)	From	То
-15	1	1	1
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Report No.: MTi250219007-0803E2

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2 Measurement uncertainty

Parameter	Expanded Uncertainty
Magnetic field measurements(3kHz~10MHz)	±14.8%
Electric field measurements(3kHz~10MHz)	±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

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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

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TEST REPORT

Report No.: MTi250219007-0803E2

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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	/	1
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Report No.: MTi250219007-0803E2

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/cm²)	Averaging time (minutes)
	(i) Limits for Occ	upational/Controlled E	xposure	"CLOC
0.3-3.0	614	1.63	*(100)	≤ 6
3.0-30	1842/f	4.89/f	*(900/f²)	<6
30-300	61.4	0.163	1.0	<6
300-1500		Č.	f/300	<6
1500-100000		rotes	5	<6
	(ii) Limits for Genera	Population/Uncontroll	ed Exposure	
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f²)	<30
30-300	27.5	0.073	0.2	<30
300-1500			f/1500	<30
1500-100000			1.0	<30

f = frequency in MHz

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.

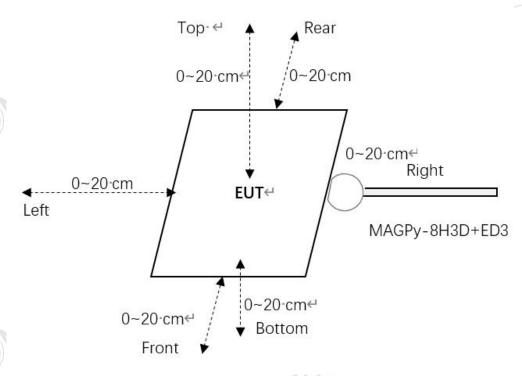
^{* =} Plane-wave equivalent power density



Report No.: MTi250219007-0803E2

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5.2 Test setup



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

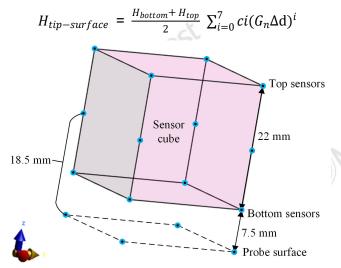
5.3 Test Procedures

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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-filed, 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 ($\Delta d = 18.5 \text{ mm}$)





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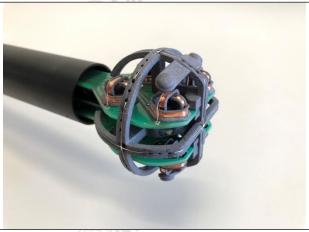
TEST REPORT

Report No.: MTi250219007-0803E2

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5.4 Information of test equipment

Test equipment: MAGPy-8H3D+ED3	
Diameter	60mm
8 isotropic H-field sensors	Concentric loops of 1cm ² arranged at the corner of
-Ole-	a cube of 22mm side length
1 isotropic E-field sensor	Orthogonal dipole/monopple(arm length:50mm)
Measurement center	18.5mm from the probe tip
Dimensions	110*635*35mm
	(MAGPy-8H3D+E3D V2 & MAGPy-DAS V2)
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Test probe, without the casing

Item	Specification
Test frequency range:	3kHz ~ 10MHz
Probe sensitivity	E-filed: 0.08-2000 V/m
Probe sensitivity	H-filed: 0.1-3200 A/m
Draha laval rasmana	E-filed: ±1dB
Probe level response	H-field: ±1dB
	E-filed: ±0.3dB
linearity error	H-field: ± 0.3 dB
6.	E-filed: ±0.8dB
Isotropy	H-field: ± 0.6 dB
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Report No.: MTi250219007-0803E2

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: Mode 3 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)		
Frobe Fosition	Measurement	Limit	Percentage (%)
Z axis	1.59		
Bottom	1.43		
Left	1.21	4.62	00.770/
Right	1.34	1.63	98.77%
Front	1.61	test	
Rear	1.09	licio de la companya della companya	

Test condition 2: Mode 3 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	1.36			
Bottom	1.29			
Left	1.10	1.02	07.400/	
Right	1.21	1.63	87.12%	
Front	1.42		4	
Rear	0.93		crotes	



Report No.: MTi250219007-0803E2

Test condition 2: Mode 3 operating mode with client device (1 % battery status of client device)

- Test distance: 4cm

Probe Position		H–field (A/m)		
Trobe Tosition	Measurement	Limit	Percentage (%)	
Z axis	1.19	st		
Bottom	1.16	. Coles		
Left	1.03	1.00	70.070/	
Right	1.12	1.63	76.07%	
Front	1.24			
Rear	0.89			

Test condition 2: Mode 3 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	1.13		
Bottom	1.08		As
Left	0.89	1.63	69.33%
Right	1.07	1.03	09.33%
Front	1.13		
Rear	0.77		

Test condition 2: Mode 3 operating mode with client device (1 % battery status of client device)

- Test distance: 8cm

Probe Position	a hick	H–field (A/m)	
	Measurement	Limit	Percentage (%)
Z axis	0.89		rict _O C
Bottom	0.71		
Left	0.62	1.63	54.60%
Right	0.77	1.63	54.60%
Front	0.87		
Rear	0.59		



Report No.: MTi250219007-0803E2

Test condition 2: Mode 3 operating mode with client device (1 % battery status of client device)

- Test distance: 10cm

Toot diotalioo	100111		
Probe Position		H–field (A/m)	
1 Tobe Tosition	Measurement	Limit	Percentage (%)
Z axis	0.75	. sst	
Bottom	0.64	. Crotes	
Left	0.57	4.63	40.470/
Right	0.72	1.63	48.47%
Front	0.79		
Rear	0.51		

Test condition 2: Mode 3 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	0.66		
Bottom	0.59		10
Left	0.49	1.62	42.220/
Right	0.68	1.63	42.33%
Front	0.69		
Rear	0.48		

Test condition 2: Mode 3 operating mode with client device (1 % battery status of client device)

- Test distance: 14cm

i oot alotaliooi i			
Probe Position	NiCl'®	H–field (A/m)	
	Measurement	Limit	Percentage (%)
Z axis	0.54		WCLO)
Bottom	0.52		
Left	0.43	4.62	39.040/
Right	0.6	1.63	38.04%
Front	0.62		
Rear	0.41		



Report No.: MTi250219007-0803E2

Test condition 2: Mode 3 operating mode with client device (1 % battery status of client device)

- Test distance: 16cm

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Probe Position		H–field (A/m)	
T TOBE T OSITION	Measurement	Limit	Percentage (%)
Z axis	0.47	est	
Bottom	0.390	· Core	
Left	0.31	1.00	20,020/
Right	0.29	1.63	28.83%
Front	0.25		
Rear	0.26		

Test condition 2: Mode 3 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	0.37		
Bottom	0.310		At .
Left	0.28	1.63	22.70%
Right	0.25	1.03	22.10%
Front	0.21		
Rear	0.20		

Test condition 2: Mode 3 operating mode with client device (1 % battery status of client device)

- Test distance: 20cm

Probe Position	~ NiCl	H–field (A/m)	
Trobe r osition	Measurement	Limit	Percentage (%)
Z axis	0.21		NICKO)
Bottom	0.180		
Left	0.16	4.00	42.000/
Right	0.14	1.63	12.88%
Front	0.15		
Rear	0.09		



TEST REPORT

Report No.: MTi250219007-0803E2

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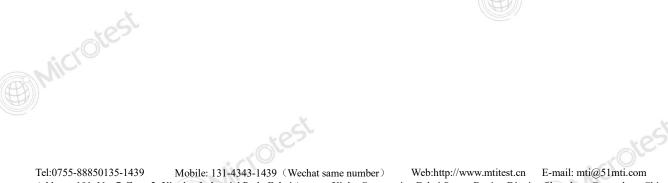
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Photographs of the Test Setup

See the Appendix - Test Setup Photos.



See the Appendix - EUT Photos.





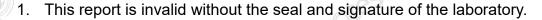
TEST REPORT

Report No.: MTi250219007-0803E2

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