



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

FCC RF Exposure

Report Reference No. : CTA26060801002

FCC ID. : SXQ-MXB026

Compiled by

(position+printed name+signature). : File administrators Zoey Cao

Supervised by

(position+printed name+signature). : Project Engineer Ace Chai

Approved by

(position+printed name+signature). : RF Manager Eric Wang

Date of issue : Jun. 25, 2026

Testing Laboratory Name : Shenzhen CTA Testing Technology Co., Ltd.

Address : Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : U2O GLOBAL CO., LTD.

Address : U2O building, Huanzhu Road 385, Jimei district, Xiamen, Fujian, China

Test specification : FCC CFR 47 PART 1, § 1.1310

Standard : KDB 680106 D01 Wireless Power Transfer v04

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Test item description..... : PowerGrip Zero

Trade Mark..... : iWALK

Manufacturer..... : U2O GLOBAL CO., LTD.

Model/Type reference..... : MXB026

Modulation Type : ASK

Operation Frequency : 115.38KHz – 149.84KHz

USB-C Input: 5V=== 3A or 9V=== 2A

Type-C Output: 5V=== 3A or 9V=== 2.22A

Rating..... : Wireless charging: 15W Max

Total Output: 5V=== 3A

Battery: 3.55V 5000mAh 17.75Wh

Result..... : PASS

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Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

TEST REPORT

Equipment under Test : PowerGrip Zero

Model /Type : MXB026

Applicant : **U2O GLOBAL CO., LTD.**

Address : U2O building, Huanzhu Road 385, Jimei district, Xiamen, Fujian,
China

Manufacturer : **U2O GLOBAL CO., LTD.**

Address : U2O building, Huanzhu Road 385, Jimei district, Xiamen, Fujian,
China

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the
test laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

[680106 D01 Wireless Power Transfer v04](#): EQUIPMENT AUTHORIZATION OF WIRELESS POWER TRANSFER DEVICES.

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Jun. 08, 2026
Testing commenced on	:	Jun. 25, 2026
Testing concluded on	:	Jun. 25, 2026

2.2 Product Description

Product Name:	PowerGrip Zero
Model/Type reference:	MXB026
Test samples ID:	CTA260608010-1# (Engineer sample) CTA260608010-2# (Normal sample)
Power supply:	USB-C Input: 5V $\overline{=}$ 3A or 9V $\overline{=}$ 2A Type-C Output: 5V $\overline{=}$ 3A or 9V $\overline{=}$ 2.22A Wireless charging: 15W Max Total Output: 5V $\overline{=}$ 3A Battery: 3.55V 5000mAh 17.75Wh
Operation frequency:	115.38KHz – 149.84KHz
Modulation type:	ASK
Antenna type:	Loop coil antenna

2.3 Description of the test mode

Equipment under test was operated during the measurement under the following conditions:

Test Modes:		
Mode 1	Charging + Wireless Charging (5W)	Pre-tested
Mode 2	Wireless Charging (15W)	Recorded
Mode 3	standby mode	Pre-tested
Note: All test modes were pre-tested, but we only recorded the worst case in this report.		

2.4 Special Accessories

The following is the EUT test of the auxiliary equipment provided by the laboratory:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
Intelligent wireless charging full function test module	/	/	/	/	laboratory
Adapter	/	/	Input: AC 100-240V 50/60Hz Output: DC 5V 3A, DC 9V 2A, DC 12V 1.5A,	/	laboratory

2.5 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,
Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Statement of the measurement uncertainty

Test	Measurement Uncertainty	Notes
Magnetic field measurement (9kHz~30MHz)	$\pm 7.8 \%$	(1)
Electric field measurements (9kHz~ 30MHz)	$\pm 7.8 \%$	(1)

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

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3.4 Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Equipment No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Exposure Level Tester	Narda	ELT-400	CTA-352	2026/5/17	2027/5/16
Magnetic field probe 100cm ²	Narda	ELT probe 100cm ²	CTA-353	2026/5/17	2027/5/16

4 Test limit

4.1 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

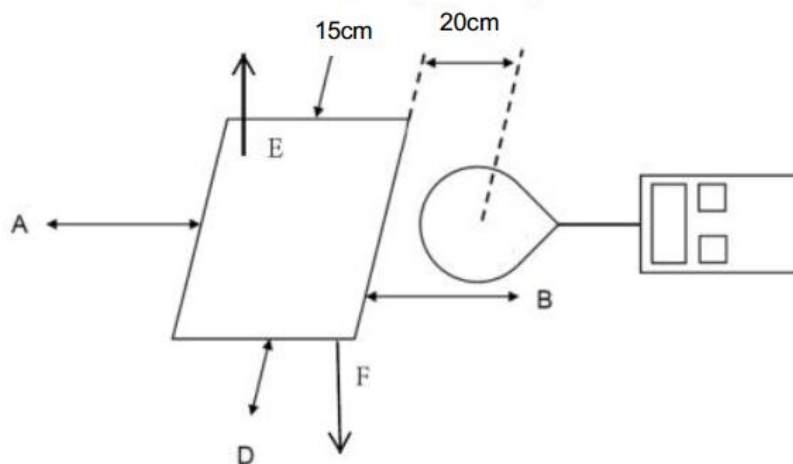
f = frequency in MHz

* = Plane-wave equivalent power density

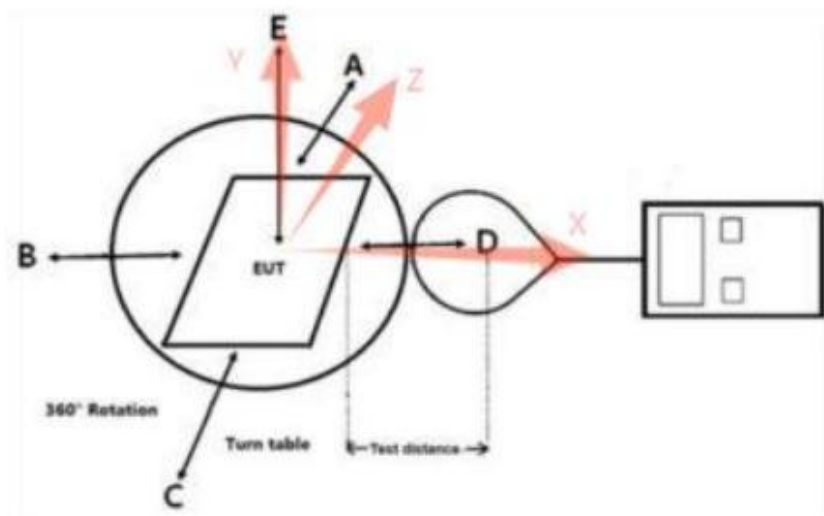
Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

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.

For mobile exposure conditions:



For portable exposure conditions:



Note: The distance of the points A/B/C/D/E/F is 0,2,4,6,8,10,12,14,16,18, 20cm.
The values tested by the probe are X, Y, and Z on three axes perpendicular to the edge of the device. Top and bottom side coincident with the axis(Y) of the main coil.

4.3 Test Procedures

For mobile exposure conditions:

- The RF exposure test was performed in anechoic chamber.
- E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the EUT and 20 cm above the top surface of the primary/client pair.
- The highest emission level was recorded and compared with limit.
- The EUT was measured according to the KDB 680106 D01 Wireless Power Transfer v04.

For portable exposure conditions:

- The RF exposure test was performed in anechoic chamber.
- Perform H-field measurements for each edge/top surface of the host/client pair at every 2 cm, starting from as close as possible out to 20 cm
- The highest emission level was recorded and compared with limit.
- The EUT was measured according to the KDB 680106 D01 Wireless Power Transfer v04.

4.4 Equipment Approval Considerations of KDB 680106 D01v04

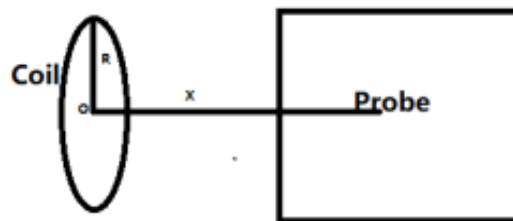
Requirements of KDB 680106 D01	Description
WPT operating frequency (or frequencies).	The device operate in the frequency range 115.38KHz – 149.84KHz
Number of radiating structure(Coil)	Only one radiated Coil
Conducted power for each radiating structure.	Maximum 15W
§ 2.1091-Mobile or § 2.1093-Portable demonstrated scenarios of operation, including RF exposure compliance information	Mobile and Portable Device
Maximum distance from the WPT transmitter at which, by design, a load can be charged (including slow-charging operations)	Charing with the load directly contact

4.5 Test results

For portable exposure condition:

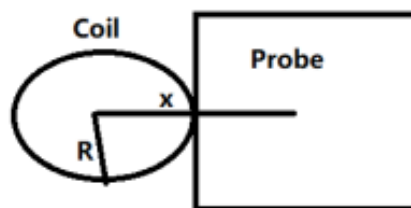
- (1). The portable test modes have covered the considerations of the mobile test, only record the test data of the portable conditions in this report.
- (2) Operating modes with client device (1 %, 50%, 99% battery status of client device) have been test, only show the data of worst case of 1% battery status of client device.
- (3) Test performed with all the radiating structures operating at maximum power at the same time.
- (4) H-field measurements are taken along all three axes the device from 0cm~20cm in 2cm minimum increment for each edge surface of the host/client pair. **If the center of the probe sensing element is more than 5mm from the probe outer edge, the field strengths need to be estimated for the positions that are not reachable.**
- (5) According to Calibration information and specification about ETL-400 Probe, The Probe ETL-400 Probe's sensitive elements center is located in the probe's center, and **the distance from the sensitive elements center to the tip of probe is 6.25cm.**
- (6) The actual 0cm, 2cm, 4cm and 6cm field strengths need to be estimated for the positions that are not reachable via numerical calculation.
- (7) 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:



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

Front, left, right & rear Side:



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

B(Unit:A/m): means H-field value;
 μ_0 is space permeability; $\mu_0=4\pi*10^{-7}$;

I(Unit:A): A current element passing through a radiated coil;

R(Unit:m): means the Radius of radiated coil, According to provided Antenna specification:
 $R=42/2=21.0\text{mm}=0.021\text{m}$;

Test Distance(Unit:m): The distance from the sensing element of the probe to the edge of the device surface.

x(Unit:m): means the center of the coil to the sensing elements of the probe. (For top & bottom side: $x=\text{test distance}$; For other side: $x=\text{test distance}+R$)

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N: Number of turns, according to providing "Antenna specification" files: N=14.

(8) For validation purposes: If the value to show a 30% agreement between the mode and the probe measurements for the two closest points to the device surface, and with 2cm increments. Then this extrapolation method is reasonable.

4.5.1 Validation results for the numerical calculation model

- Measure with probe directed contact(test distance:6.25cm)
- Using Biot-Savart formula to calculate estimated results at test distance of 8cm and 10 cm;
- measure at test distance of 8 cm and 10cm;
- Compares the estimated results and measured result, the variation should not be greater than 30%;

Conclusion: The numerical calculation model is valid.

Distance(cm)	Test condition: Mode 1																	
	Top			Bottom			Left			Right			Front			back		
	Mea.	Est.	Var.	Mea.	Est.	Var.	Mea.	Est.	Var.	Mea.	Est.	Var.	Mea.	Est.	Var.	Mea.	Est.	Var.
6.25	0.0412	/	/	0.0393	/	/	0.0278	/	/	0.0269	/	/	0.0257	/	/	0.0263	/	/
8	0.0182	0.0209	14.8	0.0196	0.0199	1.7	0.0221	0.023	4.0	0.0200	0.0222	11.0	0.0231	0.0212	-8.1	0.0217	0.0217	0.2
10	0.0125	0.0111	-11.1	0.0107	0.0106	-0.6	0.0165	0.0192	16.5	0.0183	0.0186	1.7	0.0191	0.0177	-7.3	0.0159	0.0181	13.7
Mea.-Measured H-field(A/m); Est.-Estimated H-field(A/m); Var.-Variation between measured and estimated value(%).																		

4.5.1 Final H-Field Emission level with a combination of measured and estimated results.

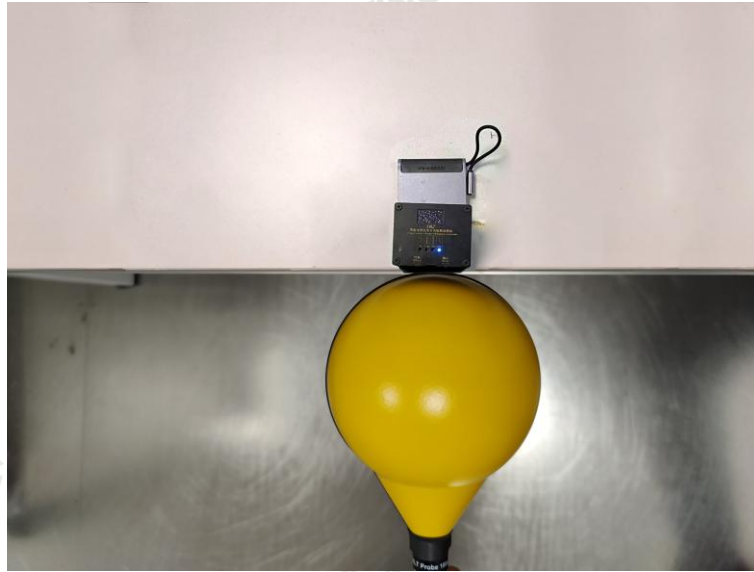
Test condition: Mode 1

Distance(cm)	Type	Result(A/m)						Limit(A/m)
		Top	Bottom	Left	Right	Front	back	
0	Estimate	1.2751	1.2163	0.1105	0.107	0.1022	0.1046	1.63
2	Estimate	0.4842	0.4619	0.0566	0.0548	0.0523	0.0536	1.63
4	Estimate	0.1281	0.1222	0.0381	0.0368	0.0352	0.036	1.63
6	Estimate	0.046	0.0439	0.0287	0.0277	0.0265	0.0271	1.63
8	Measured	0.0182	0.0196	0.0221	0.0200	0.0231	0.0217	1.63
10	Measured	0.0125	0.0107	0.0165	0.0183	0.0191	0.0159	1.63
12	Measured	0.0056	0.0062	0.0163	0.0174	0.0165	0.0161	1.63
14	Measured	0.0048	0.0037	0.0151	0.0123	0.0118	0.0119	1.63
16	Measured	0.0026	0.0027	0.0110	0.0115	0.0131	0.0113	1.63
18	Measured	0.0023	0.0021	0.0111	0.0120	0.0119	0.0111	1.63
20	Measured	0.0015	0.0015	0.0119	0.0088	0.0096	0.0092	1.63

4.6 Conclusion

A minimum safety distance of 0 cm to the antenna is required when the device is charging a smart phone for portable exposure. The detected emissions are below the limitations according FCC KDB 680106 and confirmed by the FCC according to KDB Inquire..

5 Photographs of the Test Setup



***** End of Report *****