TEST REPORT

Report No.:	8231EU011211W2
Applicant:	Shenzhen Oceantech Electronics Co.,ltd
Address:	306, Bulding 13, Fuhai Industry Park, Fuyong Street, Baoan District, Shenzhen, Guangdong, China
Product Name:	Foldable Wireless Charging Stand
Model No.:	CWCWM01-013 (refer to clause 2.4)
Trademark:	N/A
FCC ID:	2A6QJ-CWCWM
Test Standard(s):	47 CFR Part 1 Subpart I Section 1.1310
Date of Receipt:	Jul. 12, 2024
Test Date:	Jul. 12, 2024 – Jul. 24, 2024
Date of Issue:	Sep. 10, 2024

ISSUED BY:

SHENZHEN EU TESTING LABORATORY LIMITED

SHENZHEN EU TESTING LABORATORY LIMITED APPROVED

Prepared by:	**Reviewed and Approved by:**
Mikey Zhu/ Engineer	Sally Zhang/ Manager

Revision Record

Report Version	Issued Date	Description	Status
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Address: 101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Website: www.eu-test.com
Tel: (86)-755-2357-9714 Email: Service@eu-test.com

2 General Information

2.1 Applicant Information

Applicant	Shenzhen Oceantech Electronics Co.,ltd
Address	306, Bulding 13, Fuhai Industry Park, Fuyong Street, Baoan District, Shenzhen, Guangdong, China

2.2 Manufacturer Information

Manufacturer	Shenzhen Oceantech Electronics Co.,ltd
Address	306, Bulding 13, Fuhai Industry Park, Fuyong Street, Baoan District, Shenzhen, Guangdong, China

2.3 Factory Information

Factory	Shenzhen Oceantech Electronics Co.,ltd
Address	306, Bulding 13, Fuhai Industry Park, Fuyong Street, Baoan District, Shenzhen, Guangdong, China

2.4 General Description of E.U.T.

Product Name	Foldable Wireless Charging Stand
Model No. Under Test	CWCWM01-013
List Model No.	OM-071
Description of Model differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the customer)
Rating(s)	Input: 5.0V⎓3.0A/9.0V⎓3.0A Wireless Charger Output: 5W/7.5W/10W/15W
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Test Sample No.	-1/2(Normal Sample), -2/2(Engineering Sample)
Hardware Version	N/A
Software Version	N/A
Remark	1) The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.5 Technical Information of E.U.T.

Technology Used	Wireless Power Transfer (WPT)

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

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

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	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 KDB 680106 Section 5.2	Pass	--

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

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℃ to +35℃
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	2024/02/13	2025/02/14

4.3 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning 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.

No.	Description	Remark
TM1	Wireless Output (5W for Phone)	
TM2	Wireless Output (7.5W for Phone)	
TM3	Wireless Output (10W for Phone)	
TM4	Wireless Output (15W for Phone)	
TM5	Wireless Output (5W for Earbuds)	
TM6	Wireless Output (10W for Phone + 5W for Earbuds)	
Note: 1. All the conditions have been tested. It is found that TM6 is the worst mode, and the data in the report only reflects the worst mode.		

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5 RF Exposure Evaluation

5.1 Test Requirement

KDB 680106 D01 Wireless Power Transfer v04:
According to the item 5.2 of KDB 680106 D01v04:
Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

a) Power transfer frequency is less than 1 MHz.
YES. The device operates in the frequency range from 110.1-205kHz.

b) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
YES. The maximum output power of the primary coil is 15W.

c) A client device providing the maximum permitted load is placed in physical contact with the transmitter(i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)
YES. The transfer system includes only single primary and secondary coils.

d) Client device is placed directly in contact withthe transmitter.
YES. Client device is placed directly in contact with the transmitter.

e) Mobile exposure conditions only (portable exposure conditions are notcovered by this exclusion)
YES. The EUT is a Wireless Charging mobile.

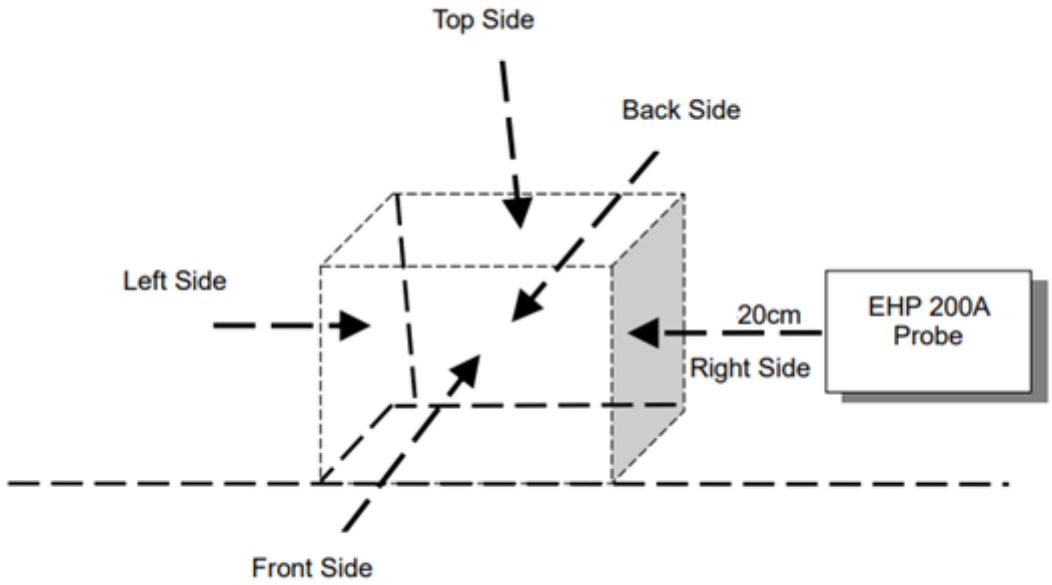
f) The aggregate H-field strengths anywhere ator beyond 20 cm surrounding the device, and 20cm away from the surface from all coils that bydesign can simultaneously transmit, and whilethose coils are simultaneously energized, aredemonstrated to be less than 50% of theapplicable MPE limit.
YES. The EUT field strength levels are 50% X MPE limit.

TABLE 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)
(A) 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
300-1,500			f/300	6
1,500-100,000			5	6
(B) 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
300-1,500			f/1500	30
1,500-100,000			1.0	30

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

5.2 Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 20cm measured from the center of the probe(s) to the edge of the device.

1) The RF exposure test was performed in anechoic chamber.
2) The measurement probe was placed at test distance (20cm) which is between the edge of the charger and the geometric center of probe.
3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

5.1 Evaluation Result

Test Condition: Test Mode 6 operating with client device (1% battery status of client device)

Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	4.8162	614	0.84%	0.1294	1.63	14.10%
Bottom	4.3641			0.1698		
Front	3.0456			0.2791		
Rear	1.3278			0.1127		
Left	3.0224			0.1425		
Right	4.3019			0.1286		

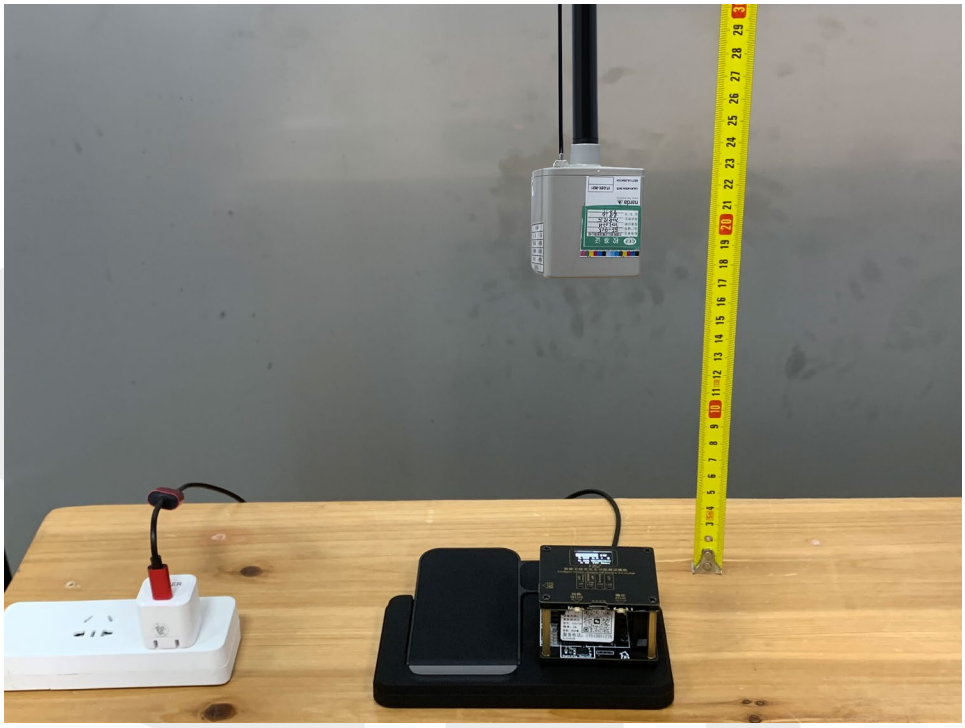
Test Condition: Test Mode 6 operating with client device (50% battery status of client device)

Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	4.0872	614	0.80%	0.1035	1.63	13.84%
Bottom	3.3063			0.1357		
Front	2.5894			0.2238		
Rear	3.3958			0.0902		
Left	4.9937			0.1144		
Right	5.1744			0.1021		

Test Condition: Test Mode 6 operating with client device (99% battery status of client device)

Test Position	E-field (V/m)			H-field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Top	3.9745	614	0.82%	0.2324	1.63	20.60%
Bottom	5.0760			0.2111		
Front	1.0571			0.0646		
Rear	4.6788			0.1425		
Left	4.2237			0.0029		
Right	2.6769			0.0583		

ANNEX A TEST SETUP PHOTOS

PHOTO 1	

STATEMENT

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--- End of Report ---

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