



TEST REPORT

Applicant: Shenzhen Kerchan Star Technology Co., LTD

Address of Applicant: 7th Floor, Building B, Huafeng International Robot Industrial Park, Hangcheng Road, Bao'an District, Shenzhen

Manufacturer/Factory: Shenzhen Kerchan Technology Co., Limited

Address of Manufacturer/Factory: 5/F, Buliding B, shuangjinhui Industrial Park, Fu'yong, Baoan Shenzhen China.

Product Name: Wireless Charging Station

Model No.: AC198

Trade Mark: YORTOT

FCC ID: 2A7FC-AC198

Applicable standards: FCC CFR Title 47 Part 1.1310

Date of Test: Dec.16, 2022 - Dec.22, 2022

Date of report issued: Jan.09, 2023

Test Result : PASS

Remark:

* In the configuration tested, the EUT complied with the standards specified above.

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver

Prepared By

Shenzhen ETR Standard Technology Co., Ltd.

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Project Engineer

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Authorized Signature



Report Revision History		
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ET-22120934E02	Original	Jan.09, 2023

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1 Test Summary

Test Item	Section in CFR 47	Result	Test by
RF EXPOSURE	KDB 680106 D01 RF Exposure Wireless Charging App v03r01	Pass	Yvan

Measurement Uncertainty

Test Item	Measurement Uncertainty	Notes
H-Field	$\pm 2.39\text{dB}$	(1)
E-Field	$\pm 2.45\text{dB}$	(1)
conducted RF Power	$\pm 0.65\text{dB}$	(1)
temperature	$\pm 0.2^{\circ}\text{C}$	(1)
humidity	$\pm 1\%$	(1)
DC and low frequency voltages	0.06%	

Note (1): The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

2 General Information

2.1 General Description of EUT

Product Name:	Wireless Charging Station
Model No.:	AC198
Sample(s) Status:	Engineer sample
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	115~205KHz
Modulation type:	ASK
Antenna Type:	Induction coil Antenna
Power supply:	Input: DC 9V from adapter Output: wireless10W/7.5W/5W

2.2 Test mode

Test mode	Description	Remark
Mode 1	Wireless charging (5W)	Pre-tested
Mode 2	Wireless charging (7.5W)	Pre-tested
Mode 3	Wireless charging (10W)	Record
Mode 4	/	/

Note: All test modes were pre-tested, but we only recorded the worst case in this report.

2.3 Description of Support Units

Equipment	Model	S/N	Manufacturer
Load	/	/	/
/	/	/	/
/	/	/	/

2.4 Deviation from Standards

None.

2.5 Abnormalities from Standard Conditions

None.

2.6 Test Facility

Test laboratory:	Shenzhen ETR Standard Technology Co., Ltd.
CNAS Registration Number:	L11864
A2LA Certificate Number:	6640.01
FCC Designation Number:	CN1326
FCC Test Firm Registration:	183064

2.7 Test Location

All tests were performed at:	
Laboratory location:	No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	+86 755 85259392
Fax:	+86 755 27219460

2.8 Additional Instructions

Test Software	/
Power level setup	Default

3 Test Instruments list

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	Exposure level Tester	Narda	ELT-400	N-0231	2022.8.31	2023.8.30
2	Magnetic field probe	Narda	ELT Probe 100cm2	M0675	2022.8.31	2023.8.30

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

4 Maximum permissible exposure

4.1 Limit

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	6
300-1500			f/300	6
1500-100000			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
300-1500			f/1500	30
1500-100000			1	30
f = frequency in MHz * = Plane-wave equivalent power density				

4.2 Requirements

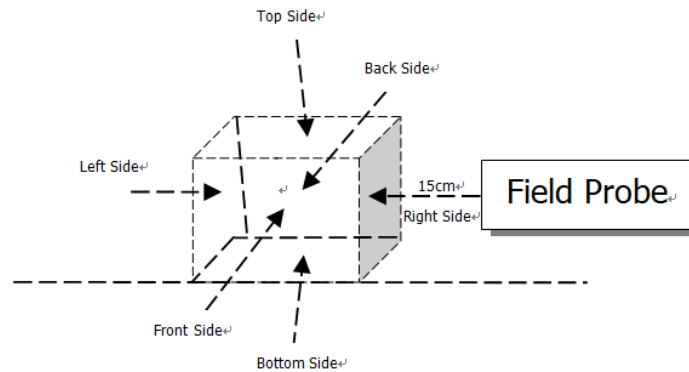
Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting and RF exposure evaluation.

Requirements of KDB 680106 D01	Yes / No	Description
Power transfer frequency is less than 1 MHz	Yes	The device operate in the frequency range 115 KHz - 205 KHz
Output power from each primary coil is less than or equal to 15 watts	Yes	The maximum output power of the primary coil is 10W Max.
The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.	Yes	The transfer system includes one coil.
Client device is placed directly in contact with the transmitter.	Yes	Client device is placed directly in contact with the transmitter.
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes	Mobile exposure conditions only
The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.	Yes	The EUT H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

4.3 Measure Procedures

E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.

4.4 Measure setup



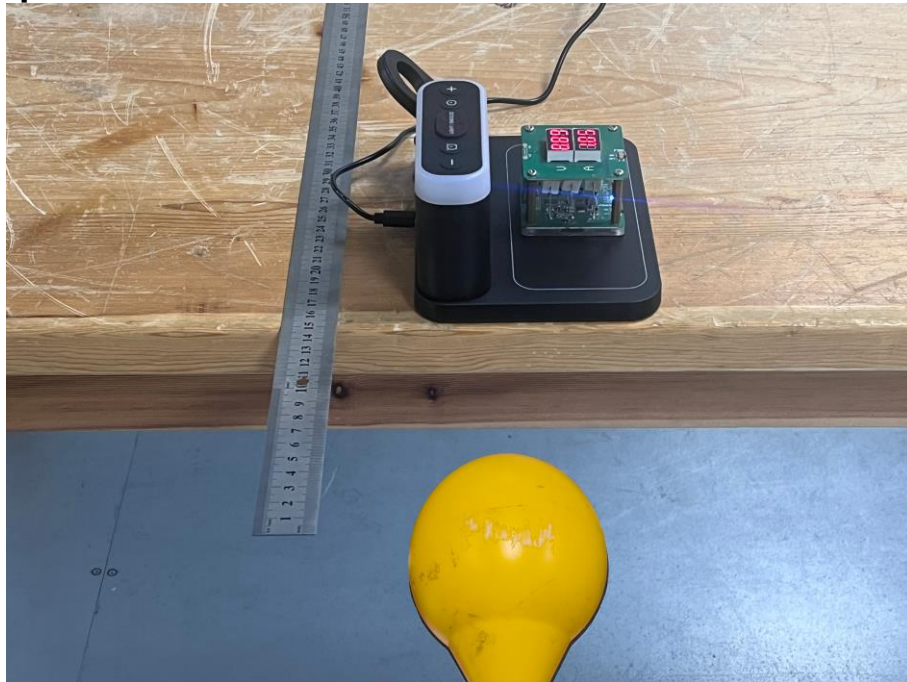
4.5 Measurement data

Maximum permissible Exposure					
Frequency range	Test sides	Separation (cm)	H-field (uT)	H-field (A/m)	50% Limit (A/m)
115-205kHz	Top	20	0.603	0.482	0.815
	Bottom	15	0.633	0.506	0.815
	Left	15	0.609	0.487	0.815
	Right	15	0.648	0.518	0.815
	Front	15	0.607	0.486	0.815
	Back	15	0.615	0.492	0.815

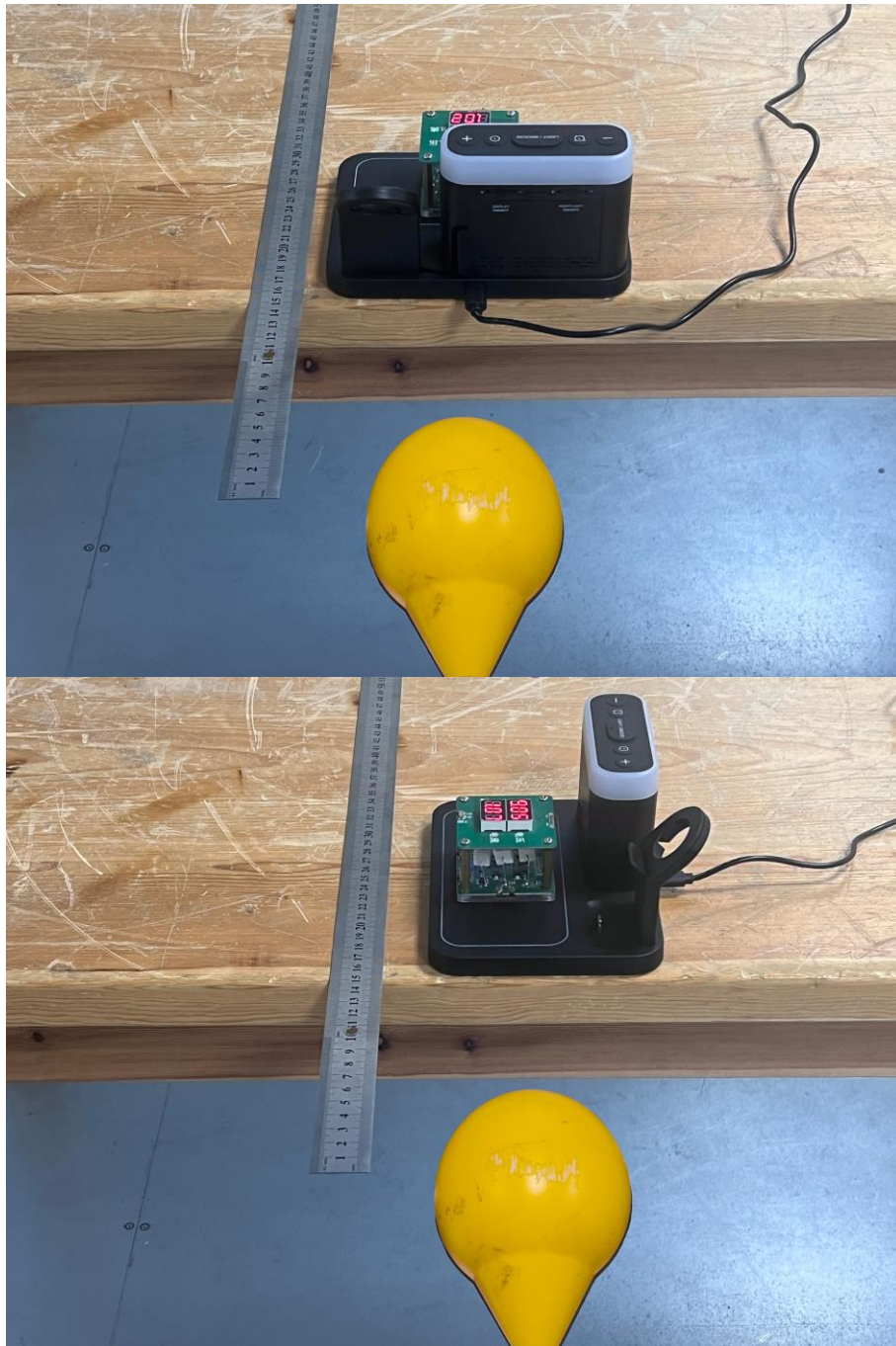
Remark:

1. The test under 5W/7.5W/10W mode. All modes were tested. Only the worse-case (10W) was recorded in the report.
2. $A/m = uT/1.25$

5 Test Setup Photo







-----End-----