RF Exposure Report

Report No.: AGC09264210101FH03

APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Smart Ambiance Lamp With Alarm Clock
BRAND NAME	:	N/A
MODEL NAME	:	SAC, SAC-001, SAC-002, SAC-003, SAC-004
APPLICANT	:	Shenzhen Juku Intelligent Technology Co., Ltd.
DATE OF ISSUE	:	Jan. 30, 2021
STANDARD(S)	:	KDB680106 D01 RF Exposure Wireless Charging Base App v03r01
REPORT VERSION	:	V1.0

Attestation of ***G***lobal ***C***ompliance (Shenzhen) Co., Ltd

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 30, 2021	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Juku Intelligent Technology Co., Ltd.
Address	303, Building 12, Jinshun Industrial Zone, No.20, Huancheng South Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, China
Manufacturer	Shenzhen Juku Intelligent Technology Co., Ltd.
Address	303, Building 12, Jinshun Industrial Zone, No.20, Huancheng South Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, China
Factory	Shenzhen Juku Intelligent Technology Co., Ltd.
Address	303, Building 12, Jinshun Industrial Zone, No.20, Huancheng South Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, China
Product Designation	Smart Ambiance Lamp With Alarm Clock
Brand Name	N/A
Test Model:	SAC
Series Model	SAC-001, SAC-002, SAC-003, SAC-004
Model Difference	All the series models are the same as the test model except for the model names.
Date of test	Jan. 15, 2021 to Jan. 29, 2021
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in KDB680106 D01.

The results of testing in this report apply to the product/system which was tested only.

Prepared By	Kelly Cheng (Project Engineer)	Jan. 30, 2021
Reviewed By	Max Zhang (Reviewer)	Jan. 30, 2021
Approved By	Forrest Lei (Authorized Officer)	Jan. 30, 2021

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	110-205 kHz
Test Frequency	123kHz
Maximum field strength	53.71dBuV/m(AV)@3m
Number of channels	1
Antenna Designation	Coil Antenna (Met 15.203 Antenna requirement)
Hardware Version	V2.0
Software Version	V2.0
Power Supply	Input: DC 12V, 2A, 24W Type-C Input: DC 5V,1A Wireless Output: 15W Max

3. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Wireless charging Mode(Full load)
2	Wireless charging Mode(Half load)
3	Wireless charging Mode(Null load)

Note:
1. The mode 1 was the worst case and only the data of the worst case record in this report.

4. SYSTEM TEST CONFIGURATION

Item	Equipment	Model No.	ID or Specification	Remark
1	Smart Ambiance lamp with alarm clock	SAC	2ARPE-SAC	EUT
2	Wireless Load	N/A	15W	AE

5. TEST FACILITY

TestSite	Attestation of Global Compliance(Shenzhen) Co., Ltd
Location	1-2/F,Building19,JunfengIndustrialPark,ChongqingRoad,HepingCommunity,FuhaiStreet,Bao'anDistrict,Shenzhen,Guangdong,China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT LIST

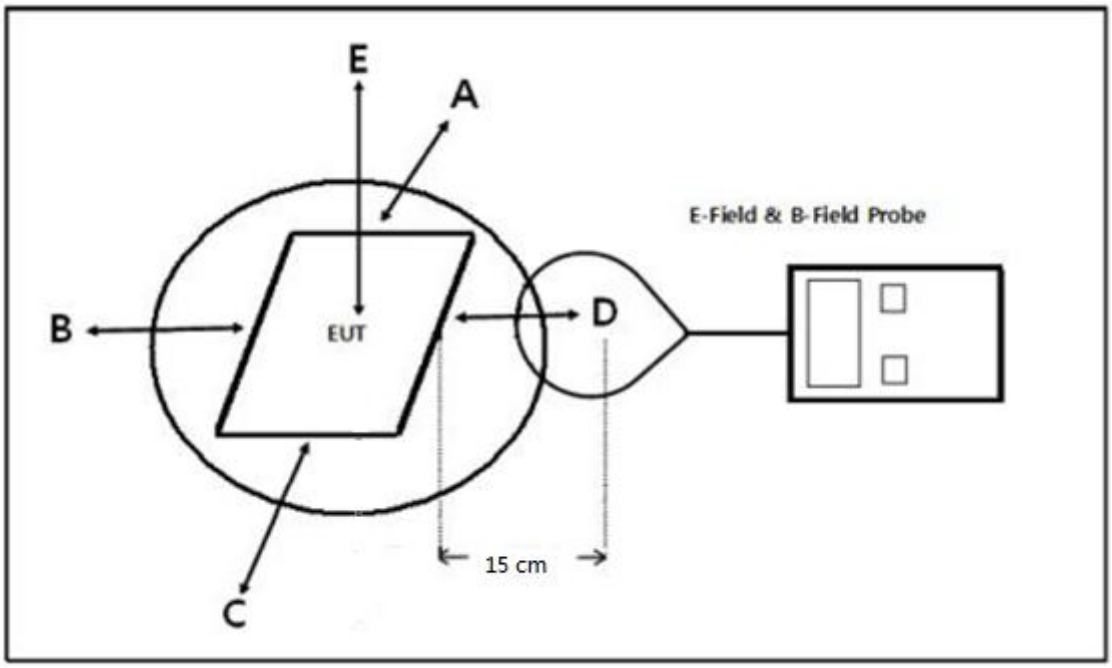
Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Broadband Field Meter	Narda Safety Test Solutions GmbH	ELT-400	J-0004	Jul.03,2020	Jul.02,2021
Probe FHP	Narda Safety Test Solutions GmbH	2300/90.10	J-0015	Jul.03,2020	Jul.02,2021

6. RADIO FREQUEN CY(RF) EXPOSURETEST

6.1. LIMITS

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m.

6.2. TEST SETUP



Note: Position A: Front of EUT; Position B: Left of EUT; Position C: back of EUT; Position D: Right of EUT; Position E: Top of EUT(20 cm measure distance);

6.3. TEST PROCEDURE

The EUT was placed on a non-conductive table top and the ancillary equipment (e.g.mobile phone) was placed on the EUT for charging.

Maximum E-field and H-field measurements were tested 15cm from each side of the EUT. For top side the measure distance is 20cm.

Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.

6.4. TEST RESULT

Test condition: Mode 1

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
119.2kHz	0.86	0.83	0.85	0.83	0.97	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
119.2kHz	0.31	0.29	0.28	0.28	0.48	1.63

Test condition: Mode 2

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
123.0kHz	0.86	0.83	0.85	0.83	0.97	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
123.0kHz	0.31	0.29	0.28	0.28	0.48	1.63

Test condition: Mode 3

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
199.7kHz	0.86	0.83	0.85	0.83	0.97	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
199.7kHz	0.31	0.29	0.28	0.28	0.48	1.63

Conclusion: The test value is less than 50% MPE limit, which meets the requirements

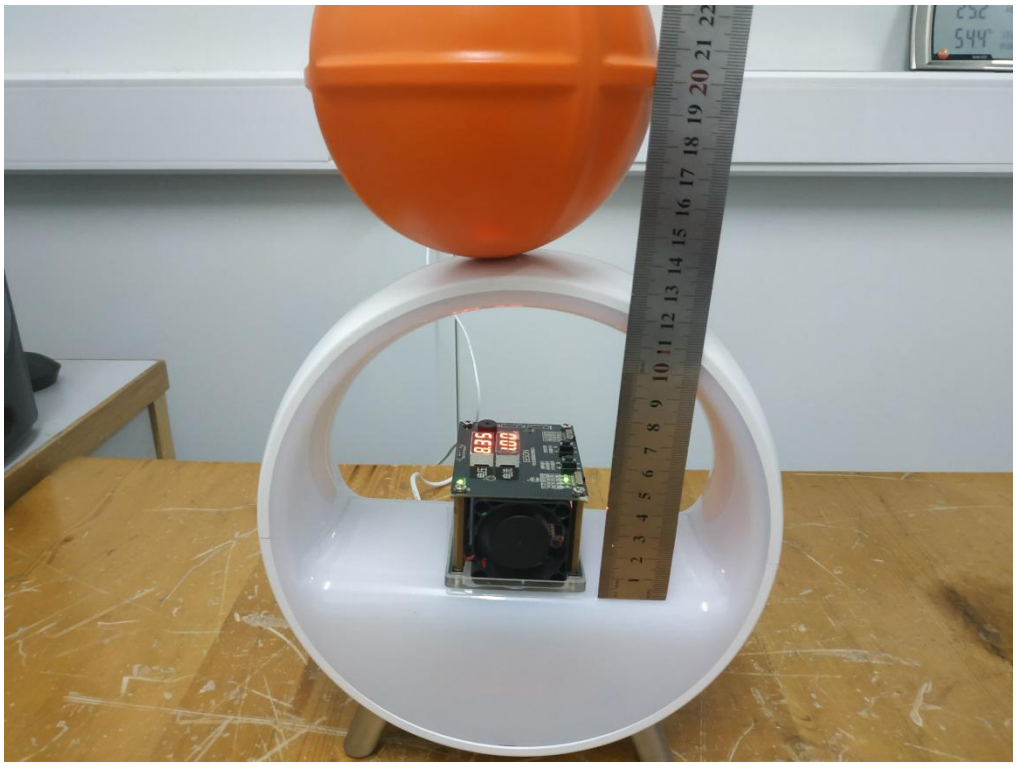
Note:

The WPT, 2.4GHz WIFI band can transmit simultaneously:

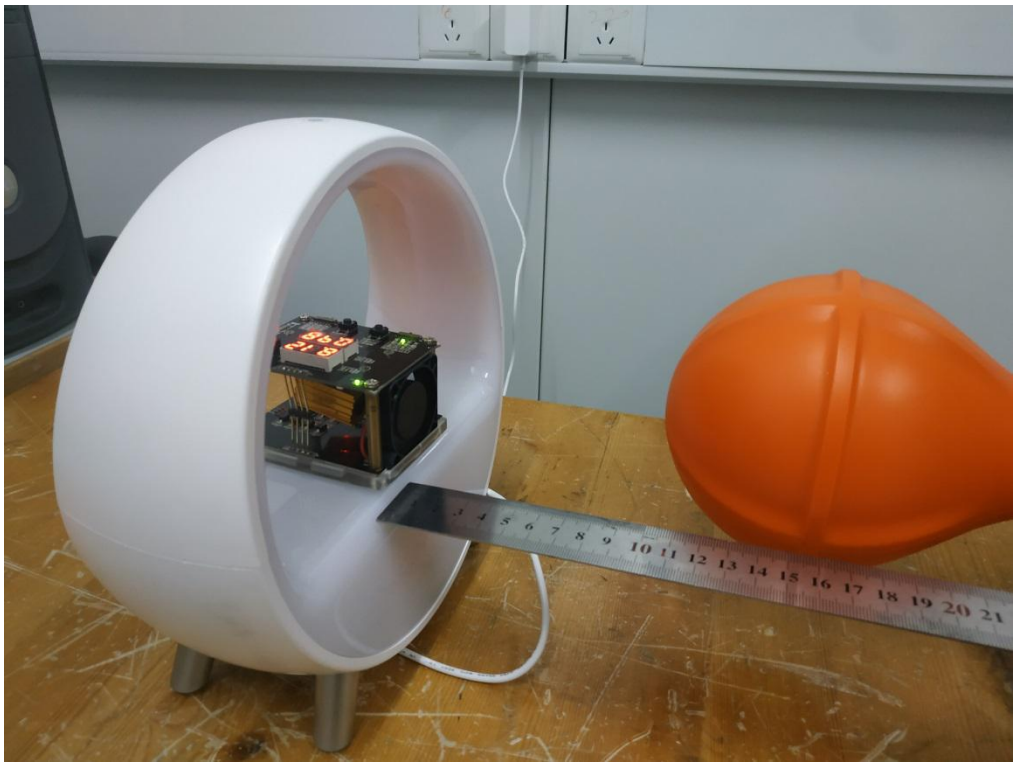
0.0073/1+0.48/1.63 = 0.302<1

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

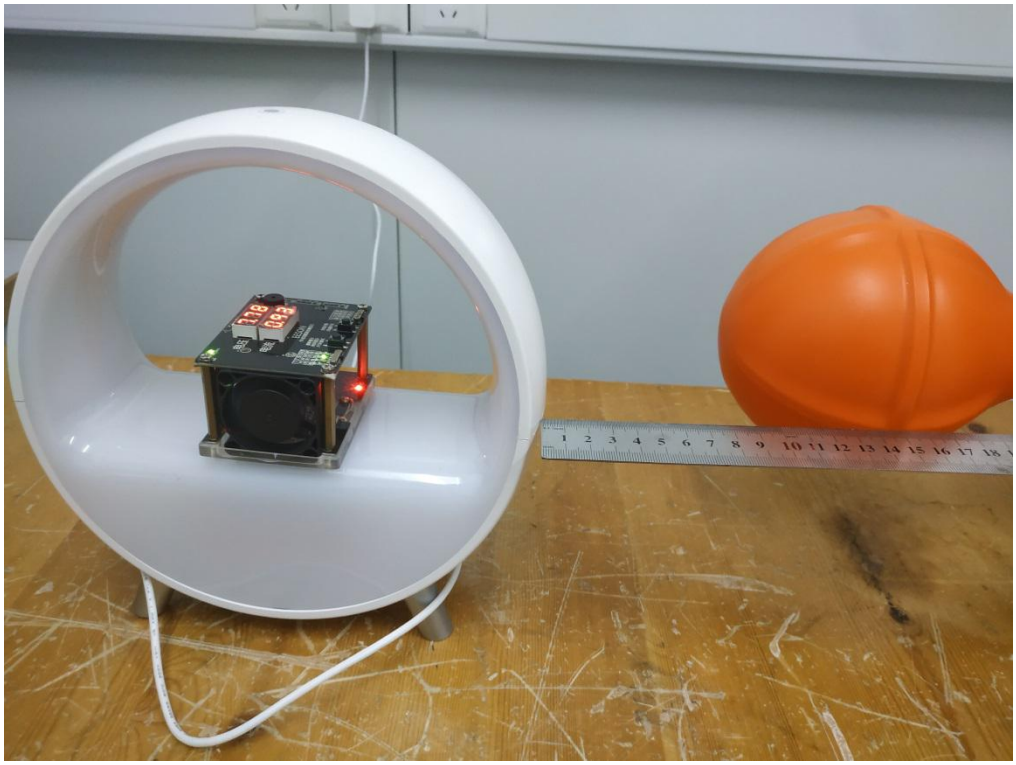
Position E



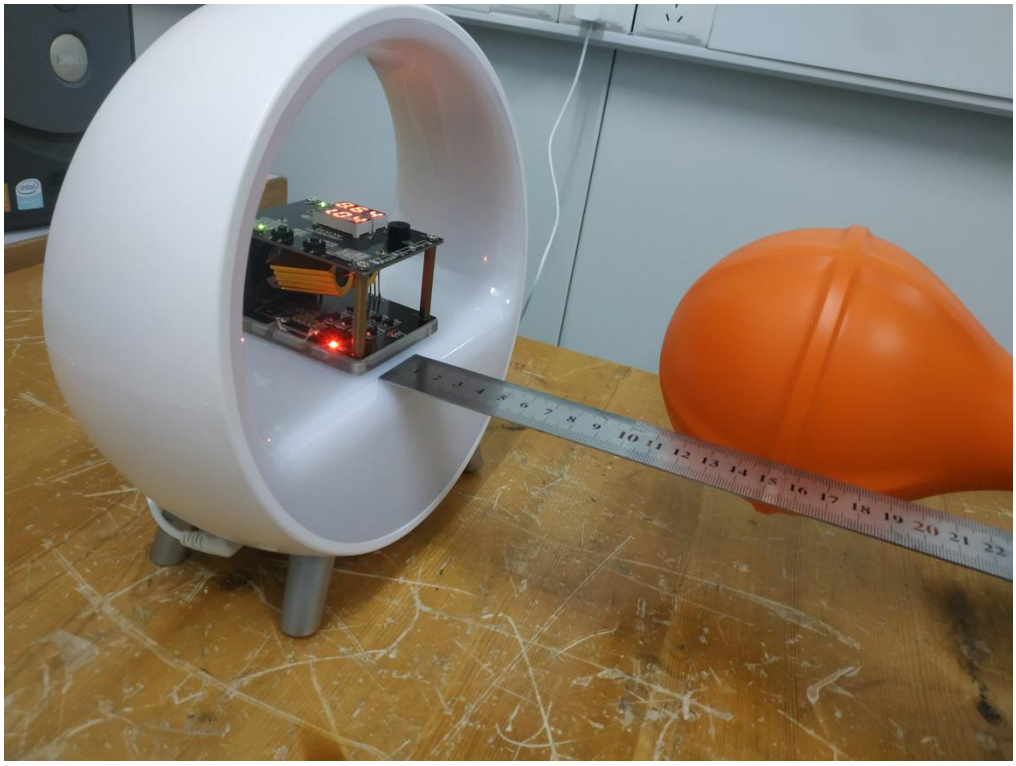
Position A



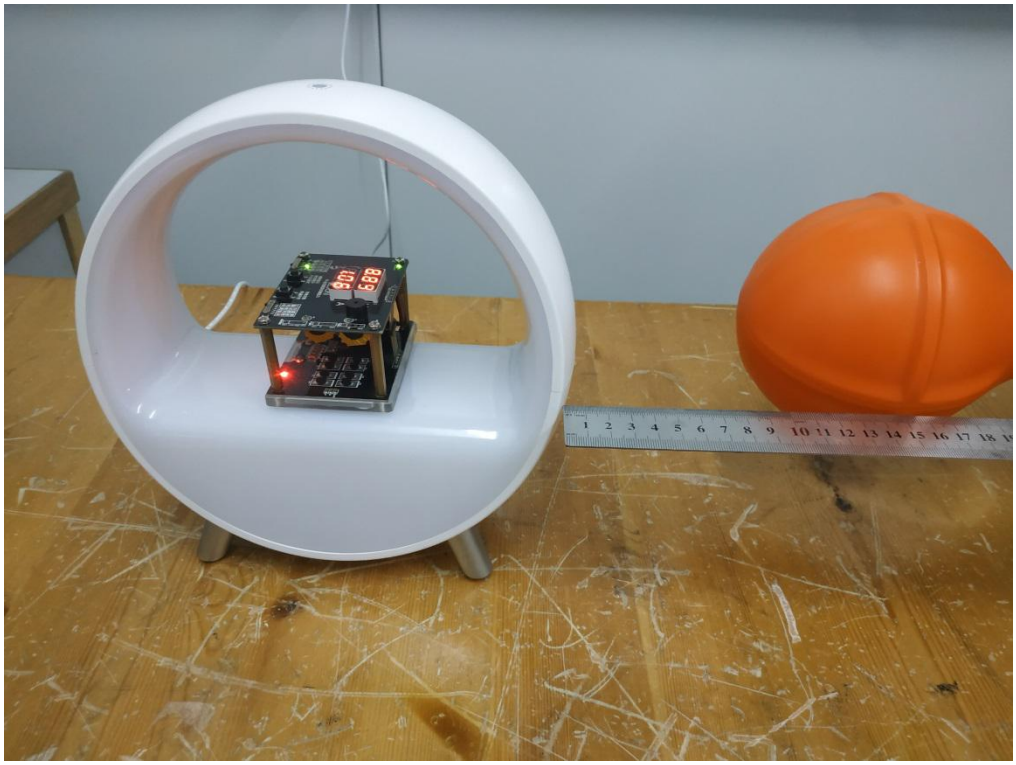
Position B



Position C



Position D



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