

RF Exposure Report

Report No.: AGC10706201006FH03

APPLICATION PURPOSE:Original EquipmentPRODUCT DESIGNATION:LED DESK LAMP WITH WIRELESS CHARGERBRAND NAME:ABKOMODEL NAME:LS03APPLICANT:ABKO CO., LTDDATE OF ISSUE:Dec. 03, 2020STANDARD(S):KDB680106 D01 RF Exposure Wireless Charging Base App v03REPORT VERSION:V1.0		
BRAND NAME: ABKOMODEL NAME: LS03APPLICANT: ABKO CO., LTDDATE OF ISSUE: Dec. 03, 2020STANDARD(S): KDB680106 D01 RF Exposure Wireless Charging Base App v03	APPLICATION PURPOSE	: Original Equipment
MODEL NAME: LS03APPLICANT: ABKO CO., LTDDATE OF ISSUE: Dec. 03, 2020STANDARD(S): KDB680106 D01 RF Exposure Wireless Charging Base App v03	PRODUCT DESIGNATION	: LED DESK LAMP WITH WIRELESS CHARGER
APPLICANT:ABKO CO., LTDDATE OF ISSUE:Dec. 03, 2020STANDARD(S):KDB680106 D01 RF Exposure Wireless Charging Base App v03	BRAND NAME	: АВКО
DATE OF ISSUE: Dec. 03, 2020STANDARD(S): KDB680106 D01 RF Exposure Wireless Charging Base App v03	MODEL NAME	: LS03
STANDARD(S)KDB680106 D01 RF Exposure Wireless Charging Base App v03	APPLICANT	: ABKO CO., LTD
STANDARD(S) : App v03	DATE OF ISSUE	: Dec. 03, 2020
REPORT VERSION : V1.0	STANDARD(S)	KDB680106 D01 RF Exposure Wireless Charging Base App v03
	REPORT VERSION	: V1.0



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REPORT REVISE RECORD

Ī	Report Version	Revise Time Issued Date		Valid Version	Notes
	V1.0		Dec. 03, 2020	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	ABKO CO., LTD
Address	M Signature 7th floor, 20, Magokjungang 1-ro, Gangseo-gu, Seoul, Republic of Korea
Manufacturer	ABKO CO., LTD
Address	M Signature 7th floor, 20, Magokjungang 1-ro, Gangseo-gu, Seoul, Republic of Korea
Factory	ABKO CO., LTD
Address	M Signature 7th floor, 20, Magokjungang 1-ro, Gangseo-gu, Seoul, Republic of Korea
Product Designation	LED DESK LAMP WITH WIRELESS CHARGER
Brand Name	АВКО
Test Model:	LS03
Date of test	Nov. 10, 2020 to Dec. 03, 2020
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.

John Zerry Prepared By John Zeng Dec. 03, 2020 (Project Engineer) Max Zhan **Reviewed By** Max Zhang Dec. 03, 2020 (Reviewer) Approved By Lower Forrest Lei

(Authorized Officer)

Dec. 03, 2020

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Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	114.6-164kHz					
Test Frequency	142.1kHz					
Maximum field strength	53.26dBuV/m(PK)@3m					
Number of channels	1					
Antenna Designation	Coil Antenna (Met 15.203 Antenna requirement)					
Hardware Version	A1					
Software Version	A5					
Power Supply	DC 12V by adapter					

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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)

4. SYSTEM TEST CONFIGURATION

ltem	Equipment	Model No.	ID or Specification	Remark
1	LED DESK LAMP WITH WIRELESS CHARGER	LS03	2AWXK-LS03	EUT
2	Wireless Load	RX24-50W	10W	AE

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5. TEST FACILITY

Test Site	Test Site Attestation of Global Compliance(Shenzhen) Co., Ltd					
Location	1-2/F,Building19,JunfengIndustrialPark,ChongqingRoad,HepingCommunity,FuhaiSt reet,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	May 25,2020	May 24,2021
	Probe FHP	Narda Safety Test Solutions GmbH	2300/90.10	J-0015	May 25,2020	May 24,2021

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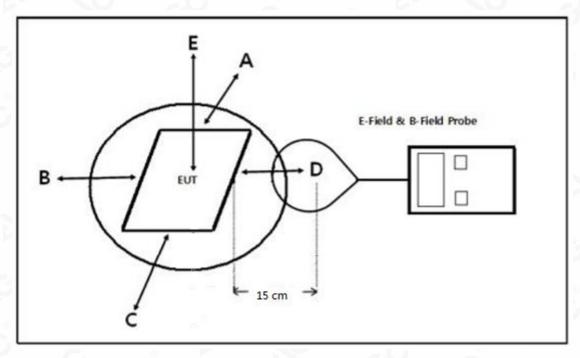


6. RADIO FREQUENCY (RF) EXPOSURETEST

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);

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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.

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6.4. TEST RESULT

Test condition: Mode 1

E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
142.1kHz	1.17	1.18	1.20	1.21	1.72	614

H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
142.1kHz	0.43	0.45	0.47	0.44	0.65	1.63

Test condition: Mode 2

E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
148.4kHz	0.96	0.94	0.92	0.92	1.04	614

H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
148.4kHz	0.37	0.36	0.27	0.33	0.49	1.63

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Test condition: Mode 3

E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
151.7kHz	0.67	0.66	0.68	0.63	0.76	614

H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
151.7kHz	0.18	0.19	0.14	0.16	0.22	1.63

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

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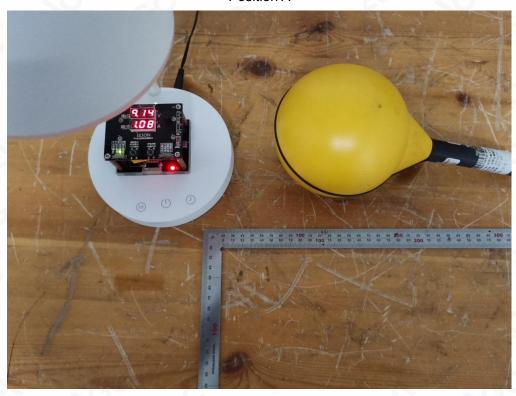


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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Position A

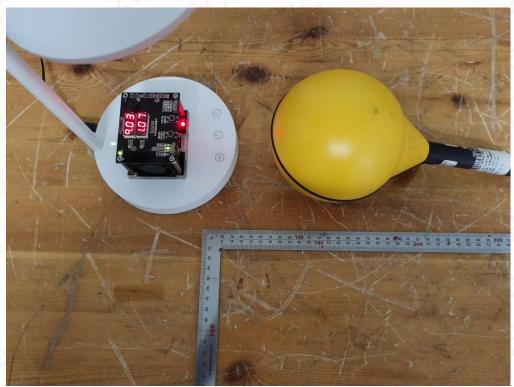


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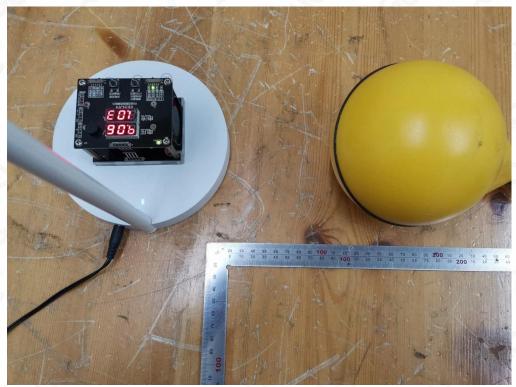


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Position B



Position C

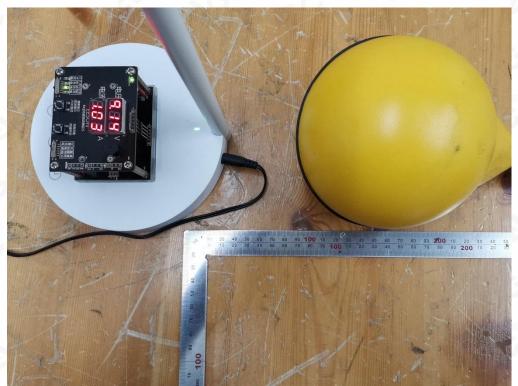


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Position D



----END OF REPORT----

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.

5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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