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# **FCC TEST REPORT**

Client Name : Shenzhen Eallto Technology Co., Ltd

Block5, Zhipeng Industrial Park, Fuyuan No1 Road,

Address : Heping Fuyong, Bao'an District, Shenzhen, Guangdong

Province, China

Product Name : Multifunctional UV disinfection box (wireless charging

version)

Date : Aug. 13, 2020

Shenzhen Anbotek Compliant Laboratory Limited



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# TEST REPORT

Applicant : Shenzhen Eallto Technology Co., Ltd

Manufacturer : Shenzhen Eallto Technology Co., Ltd

Product Name : Multifunctional UV disinfection box (wireless charging version)

Model No. : E65, E68, E69

Trade Mark : N.A.

Rating(s) : Input: DC 5V, 2A / DC 9V, 2A

Wireless Output: 5W/7.5/10W/15W

Test Standard(s) : FCC Part 1.1310, 1.1307(b)

Test Method(s) : KDB680106 D01 RF Exposure Wireless Charging Apps v03

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 1.1307 & KDB680106 D01 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt	Jul. 09, 2020
Date of Test	Jul. 09~29, 2020
	Dolly Ma
Prepared By	All Joseph Amboren Amb
Ambo dek Amborek Ambore An Amborek Ambo	(Engineer / Dolly Mo)
	horen Anbore Anbore
	Bib Thong
Reviewer	And arek West And
otek Anbotek Ambore All hotek Anboten	(Supervisor / Bibo Zhang)
	Tok I hotek Anbore
	In Chen
Approved & Authorized Signer	stek supotek Aupo, ok Potek
k abotek Anbote Anbotek Anbotek An	(Manager / Tom Chen)

**Shenzhen Anbotek Compliance Laboratory Limited** 

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## 1. General Information

## 1.1. Client Information

- AP	LK MO' AN' ME' AND AK MO'
Applicant	: Shenzhen Eallto Technology Co., Ltd
Address	Block5, Zhipeng Industrial Park, Fuyuan No1 Road, Heping Fuyong, Bao'an District, Shenzhen, Guangdong Province, China
Manufacturer	: Shenzhen Eallto Technology Co., Ltd
Address	Block5, Zhipeng Industrial Park, Fuyuan No1 Road, Heping Fuyong, Bao'an District, Shenzhen, Guangdong Province, China
Factory	: Shenzhen Eallto Technology Co., Ltd
Address	Block5, Zhipeng Industrial Park, Fuyuan No1 Road, Heping Fuyong, Bao'an District, Shenzhen, Guangdong Province, China

## 1.2. Description of Device (EUT)

Product Name	:	Multifunctional UV disinfe	ection box (wireless charging version)					
Model No.	:	E65, E68, E69 (Note: All samples are the "E65" for test only.)	e same except the appearance color, so we prepare					
Trade Mark	:	N.A.	Anbotek Anbotek Anbotek Anbotek					
Test Power Supply	:	AC 120V, 60Hz for adapt	AC 120V, 60Hz for adapter					
Test Sample No.	:	1-2-1(Normal Sample), 1-2-1(Engineering Sample)						
		Operation Frequency:	110.1-205KHz					
Product Description		Modulation Type:	ASK Andrew					
		Antenna Type:	Inductive loop coil Antenna					
		Antenna Gain(Peak):	0 dBi Anbotek Anbotek Anbotek Anbotek					

**Remark:** 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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### 1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: Anker	nbo botek	Anbotek	Anbore P	anbotek
e e		M/N: A2014 Input: 100-240V 50-60Hz 1.2A	Anbotek	ek Anborek	Anbotek	Anbotek
		Output: 5V == 3A / 9V == 3A /	15V== 2A	/ 20V== 1.5A	ek Anbote	Anti

## 1.4. Test Equipment List

>	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	1	Magnetic field meter	NARDA	ELT-400	423623	Dec. 23, 2019	1 Year
K	2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2017	3 Year
0315	<b>3</b>	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2017	3 Year

#### 1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	botek A	hboten Anti-
		Ur = 3.8 dB (Vertical)		Anbore And bote
		abortek Anboren Anbo	Anbotek	Anbore Am
Conduction Uncertainty	:	Uc = 3.4 dB	Anborek	Anborratek An

## 1.6. Description of Test Facility

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

#### FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 27, 2019.

## ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, March 07, 2019.

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518102

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## 2. Measurement and Result

## 2.1. Requirements

According to the item 5.b) of KDB 680106 D01v03:

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

- 1) Power transfer frequency is less that 1 MHz
- 2) Output power from each primary coil is less than or equal to 15 watts.
- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
- 4) Client device is inserted in or placed directly in contact with the transmitter
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
- 6) The aggregate 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.

Limits For Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)					
(A) Limits for Occupational/Controlled Exposures									
0.3-3.0	614	1.63	*(100)	6					
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6					
30-300	61.4	0.163	1.0	6					
300-1500	1	1	f/300	6					
1500-100,000	1	1	5	6					
	(B) Limits for Genera	l Population/Uncontrolle	ed Exposure						
0.3-1.34	614	1.63	*(100)	30					
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30					
30-300	27.5	0.073	0.2	30					
300-1500	1	1	f/1500	30					
1500-100,000	/	1	1.0	30					

F=frequency in MHz

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

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Hotline

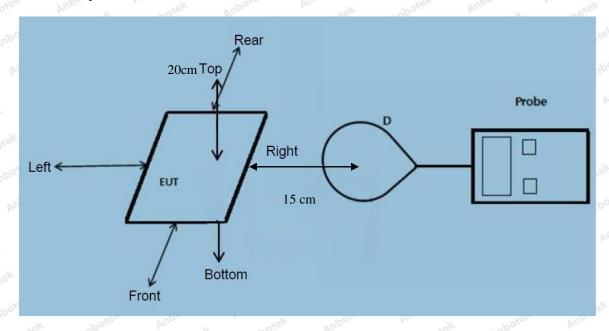
Hotline 400-003-0500 www.anbotek.com

<sup>\*=</sup>Plane-wave equivalent power density



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### 2.2. Test Setup



Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

### 2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance 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) were completed. (A is the right, B is the back, C is the left, D is the front, and E is the top.)
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

#### Remark:

The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

#### 2.4. Test Result

- 2.4.1. Equipment Approval Considerations item 5.b of KDB 680106 D01 v03.
- 1) Power transfer frequency is less that 1 MHz
  - The device operate in the frequency range 110.1~205KHz
- 2) Output power from each primary coil is less than 15 watts
  - The maximum output power of the primary coil is 15W.

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- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
  - The transfer system including a charging system with two primary coils is to detect and allow only between individual pairs of coils. Only one coil works at a time.
- 4) Client device is inserted in or placed directly in contact with the transmitter
  - Client device is placed directly in contact with the transmitter.
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
  - The EUT is a Mobile Power Pack with Multifunctional UV disinfection box (wireless charging version)
- 6) The aggregate 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.
- Conducted the measurement with the required distance and the test results please refer to the section 2.4.2

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2.4.2. Environmental evaluation and exposure limit according to FCC CFR 47 part 1 1.1307(b), 1.1310

Temperature:	23.6°C	Relative Humidity:	55%
Pressure:	1012 hPa	Test Voltage:	AC 120V, 60Hz for adapter

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
power	Range (KHz)	Position A	Position B	Position C	Position D	Position E	Limit (V/m)	Test (V/m)
tek Anb	Stelk Anbu	-otek	nbotek	Aupose	Anthorek	Anbore	k Augo	lek D
1%	110.1~205	0.32	0.39	0.25	0.43	0.94	307	614
abotek		Ambo	Anbotek	Anboro	*GK WILL	potek	rupoten Ar	
An abotek	Anbore	Vun Potel	Anbot	Sk Aup	rek br	abotek	Anbores	Ann Motek
50%	110.1~205	1.46	1.57	1.10	1.41	1.58	307	614
ek upo		K And	worek.	Anbotek	Anbor	Ai.	Anboren	
rek po	ipotek Aut	Joseph P	hotek	Anbotek	Vupo.	k vip	otek Anbot	er b
99%	110.1~205	2.35	2.51	2.43	2.47	2.52	307	614
Anboro		Aupolen	Anbo	k Anbo	rek Anl	or b	abotek	
Aupor	anbotek	Anboren	ok Puga	otek A	botek	Aupo, wek	anbotek	Aupoten
Stand-by	110.1~205	0.44	0.38	0.75	0.49	0.50	307	614
Anbo Anbo		otek Ar	boter	inp	anbotek	Anboro	ok abote	



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## H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
rek ant	otek Anbe	rek An	nbotek	Anboten	Anbo	Anbote	Anboro	iek Vii
1%	110.1~205	0.042	0.057	0.046	0.049	0.063	0.815	1.63
ipo potek	Anbotek	Anbore	Air	Anbore	K Anb	work p	obotek Ar	Post
Anna	Anbotek	Aupor	k 2000	lek but	Ole V	hotek	Anborek	Vupo.
50%	110.1~205	0.25	0.58	0.33	0.44	0.48	0.815	1.63
-k Pur	otek Anboi	ek Anb	o. k	anbotek	Anbore.	And	Anbotek	Anb
Pur Bur	hotek An	potek F	iupo.	h. abotek	Anbore	Vr Vi	rek Anbot	S.r.
99%	110.1~205	0.41	0.54	0.52	0.31	0.56	0.815	1.63
Anboten	Anusotek	Anbotek	Yupo,	ek ab	stek Ar	boje, v	rotek.	Anbotek
Aupoleu	Answork	Anbotel	Aupo	*8/r	opotek	Aupoter	Arre	Anbote
Stand-by	110.1~205	0.29	0.25	0.76	0.32	0.33	0.815	1.63
K Anbo	Hen Anbo	stek .	obotek	Aupor	VI. Potek	Anboten	Anbo	J.K

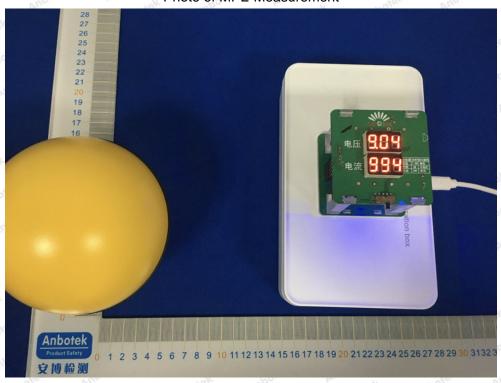
Note: All the conditions have been tested. It is found that 15W is the worst mode, and the data in the report only reflects the worst mode.

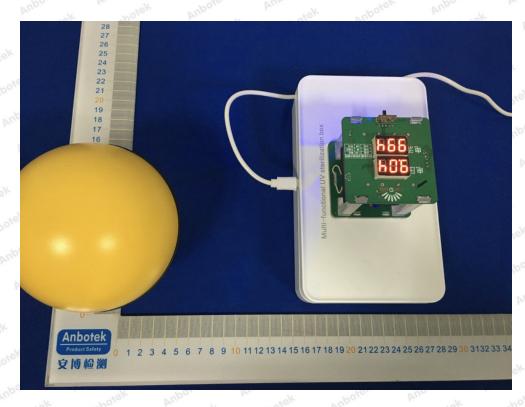


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## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Photo of MPE Measurement

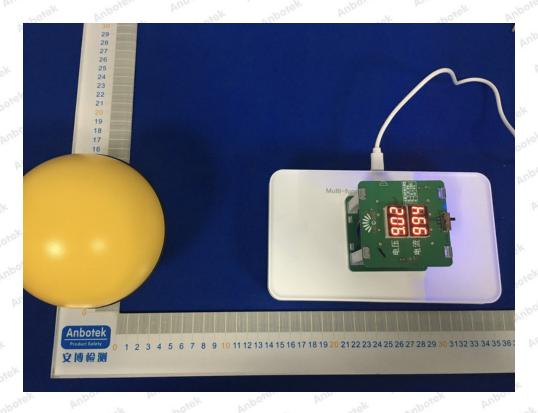


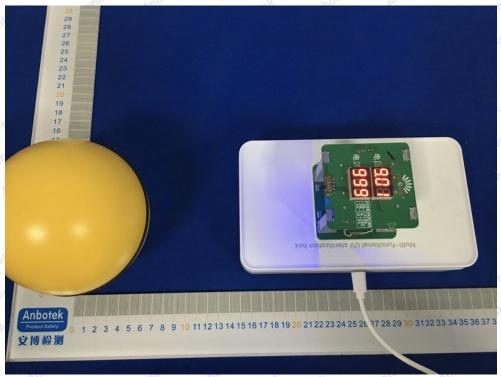


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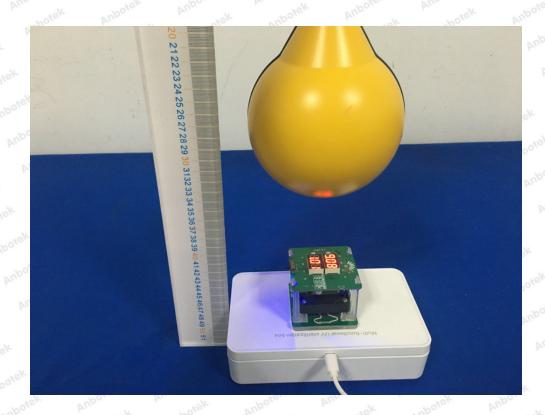




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