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FCC TEST REPORT

Client Name Shenzhen Minsuo Industrial Co.,Ltd

12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd

Address road, Xixiang Town, Bao'an, Shenzhen, Guangdong,

China

Product Name **UV Multifunction Ultraviolet Sterilization Box**

Date Aug. 18, 2020

Laboratory Anbo<u>tek</u> Shenzhen Anbotek Compliance Laboratory Limited * Approved >

Compliance



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TEST REPORT

Applicant : Shenzhen Minsuo Industrial Co.,Ltd

Manufacturer : Shenzhen Minsuo Industrial Co.,Ltd

Product Name : UV Multifunction Ultraviolet Sterilization Box

Model No. : MP-080, SUVB205

Trade Mark : N.A.

Input: DC 5V, 2A

Rating(s) : Wireless output: 5W

USB output: 5V, 2A

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. 30, 2020
Date of Test	Jul. 30~Aug. 17, 2020
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Prepared By	ok botek Anbore And
And Anbotek Anbotek Anbotek Ant	(Engineer / Dolly Mo)
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Reviewer	abotek All All works an
abotek Anbotek Anbotek Anbotek Anbotek	(Supervisor / Bibo Zhang)
	Ton Chen
Approved & Authorized Signer	nbotek Anbotek Anbotek
Anbores Ant Lovek Anbores Anbo	(Manager / Tom Chen)

Shenzhen Anbotek Compliance Laboratory Limited

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1. General Information

1.1. Client Information

Applicant	: Shenzhen Minsuo Industrial Co.,Ltd
Address	12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road,Xixiang Town Bao'an, Shenzhen, Guangdong, China
Manufacturer	Shenzhen Minsuo Industrial Co.,Ltd
Address	12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road,Xixiang Town Bao'an, Shenzhen, Guangdong, China
Factory	Shenzhen Minsuo Industrial Co.,Ltd
Address	12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road,Xixiang Town Bao'an, Shenzhen, Guangdong, China

1.2. Description of Device (EUT)

Product Name	:	UV Multifunction Ultrav	iolet Sterilization Box
Model No.	:	MP-080, SUVB205 (Note: All samples are t so we prepare "MP-080	the same except the model name and the appearance, "for test only.)
Trade Mark	:	N.A.	ek anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for ada	pter Anborek Anbore Anborek Anbore
Test Sample No.	:	1-2-1(Normal Sample),	1-2-1(Engineering Sample)
		Operation Frequency:	110.1-205KHz
Product		Modulation Type:	FSK Anborek Anborek Anborek
Description	;	Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi

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or the User's Manual.

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1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: Anker Innovations Limited	Anbores A	worek.
		M/N: A2013	Anbore	Pur
		Input: 100-240V~50-60Hz		
2		Output: 3.6-6.5V 3A/ 6.5-9V 2A/ 9-12V 1.5A	ek spotel	

1.4. Test Equipment List

Item	Equipment	Manufacturer	acturer Model No.		Last Cal.	Cal. Interva	
1	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	3 Year	
2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2017	3 Year	
3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2017	3 Year	

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
, t		Ur = 3.8 dB (Vertical)
		Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Conduction Uncertainty	:	Uc = 3.4 dB



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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/cm ²)	Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	:
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
300-1500	I	1	f/300	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	l Population/Uncontrolle	d 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	1	1	f/1500	30
1500-100,000	1	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

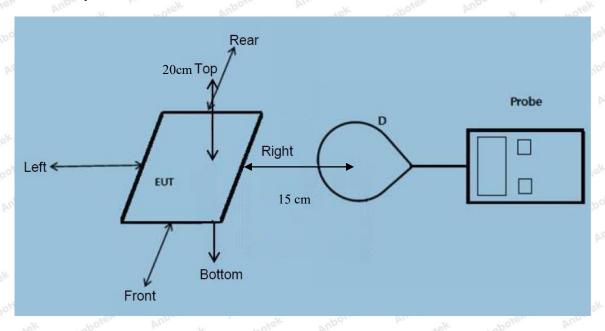
Hotline 400-003-0500 www.anbotek.com

^{*=}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 5W.

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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 only single primary coils is to detect and allow only between individual pairs of coils.
- 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 Wireless Charger.
- 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:	23.4°C	Relative Humidity:	52%
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

Pottory	Frequency	Test	Test	Test	Test	Test	Reference	Limits
Battery	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	ek A anb	otek B Ar	C	Dek	AIE OF BE	(V/m)	(V/m)
ek Aup	Pupp Yupp	otek p	nbotek	Aupor	printpolek	Anbore	PUD PUD	lek l
1%	110.1~205	0.27	0.32	0.28	0.35	0.51	307	614
abotek		Anbotek	Anbotek	Anbor	tek bi	potek	inpoten at	
, nbotek	Anbore	Aur	Anbot	Sk Aup	stek h	anborek	Aupore	Ann
50%	110.1~205	1.27	.≪ 1.41 _{∧∩}	1.33	1.58	1.26	307	614
ek upc		K Anu	worek.	Anbotek	Mupo,	Ar. nbotel	Anbore	
sek by	ipotek Aul	ole. b	hotek	Anbotek	Vupo.	k up	stek Aupor	P
99%	110.1~205	2.17	2.25	2.38	2.35	2.25	307	614
Aupora		Aupoten	Ano	k Anbo	iek Anl	or b	hotek	
Aupo. rek	photek	Anborer	-k Pup	otek A	botek	Aupo, sek	nbotek	Anbore
Stand-by	110.1~205	0.31	0.27	0.42	0.46	0.57	307	614
K Aupo,		otek Ar	poter	inp. otek	anbotek	Anboro	ok pote	



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

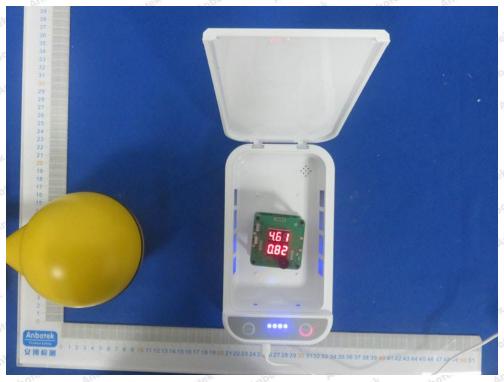
100	0 200						- A-1	7.77
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
200-	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	A	otek B	PosterC	Anba Dek	Anborek Anborek	(A/m)	(A/m)
ek Ant	otek Anbe	rek b	nbołek	Anbore	Ann	Anbote	Vupo,	lek be
1%	110.1~205	0.042	0.053	0.047	0.031	0.068	0.815	1.63
botek		Yupo, **ek	Arabotek	Anborr	-k Anu	notek p	nbotek Ar	po,
And	Anborek	Aupo	k vupo	lek bul	Of P	botek	Anborek	Aupo. Ote
50%	110.1~205	0.28	0.32	0.34	0.46	0.45	0.815	1.63
K Ann	otek Anboi	ek Anb	-10/4 K	anbotek	Anbore	And	Anbotek	Anb
V. Viun		potek	iupo,	anbotek.	Anbore	VK PLU	rek Anbot	S.k.
99%	110.1~205	0.42	0.37	0.21	0.33	0.44	0.815	1.63
Anboten		Anbotek	Vupo,	ek up	otek bi	bojer V	rotek.	anbotek
Anbore	Androtek	Anbotel	, Aupo	*8/r	botek	Anboten	Aug	Anbotel
Stand-by	110.1~205	0.21	0.35	0.27	0.33	0.35	0.815	1.63
K anbo		*ek	botek	Aupor	Notek	Anboten	VUD.	<i>y</i> -

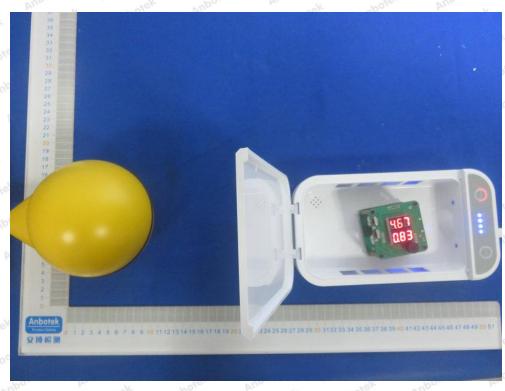


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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement





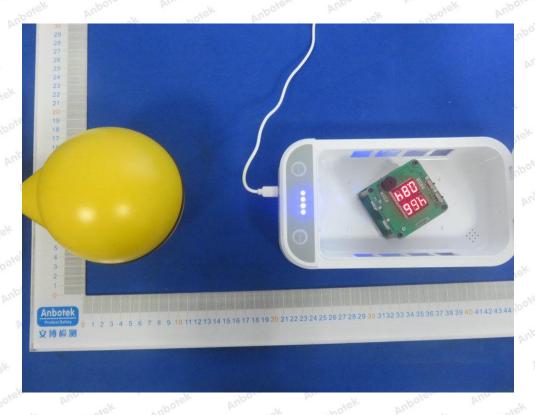
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