

Date

 Report No.: 18220WC00091602
 FCC ID: 2AUA9-RQZY005
 Page 1 of 13

# FCC TEST REPORT

Client Name	: Shenzhen Renqing Excellent Technology Co., Ltd.	
Address	<ul> <li>104, No.15, Longfu Industrial Zone Tongsheng</li> <li>Community, Dalang Street, Longhua District, Shenzhe</li> </ul>	×
holek Anbolek An	Guangdong, China	anb <sup>r</sup>
Product Name	: Multi-function UVC Sterilizer(Wireless Charging)	

: Jul. 23, 2020



#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

#### Code:AB-RF-05-a



Report No.: 18220WC00091602

FCC ID: 2AUA9-RQZY005 Page 2 of 13

# Contents

1. General Ir	Information		No.	4
1.1. Clie	ient Information	Pure Prove	and	4
1.2. Des	escription of Device (EUT)	otek Anbo. A	Hotel Hotel	4
1.3. Aux	ixiliary Equipment Used During Test	under habote	Anne	5
1.4. Tes	st Equipment List	an and a state of the state of	Aupo	
1.5. Me	easurement Uncertainty	Andrew Street	pabote Atte	5
	escription of Test Facility			
2. Measuren	ment and Result	Anboren Anbo		
2.1. Red	equirements		por pur	6
2.2. Tes	st Setup		And And	7
	st Procedure		Model Moon	7
2.4. Tes	st Result	sayotek sybor	<sup>to</sup> gg <sub>ag</sub>	7
2.4.1. E	Equipment Approval Considerations item	n 5.b of KDB 680106 D0	)1 v03	
2.4.2. E	Environmental evaluation and exposure	e limit according to FC	C CFR 47 part 1, 1.	1307(b),
1.1310.	Anu and anotek	Anbor M	popole.	
APPENDIX	I TEST SETUP PHOTOGRAPH	ek pobole An		11

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

# Code:AB-RF-05-a



Report No.: 18220WC00091602

FCC ID: 2AUA9-RQZY005 Page 3 of 13

# TEST REPORT

Applicant	Shenzhen Renqing Excellent Technology Co., Ltd.
Manufacturer	Shenzhen Renqing Excellent Technology Co., Ltd.
Product Name	: Multi-function UVC Sterilizer(Wireless Charging)
Model No.	: XW01
Trade Mark	: ROCK, rock space, ihave, RockLava, ROCK BEAR
Rating(s)	Input: DC 5V/2A, 9V/2A Wireless Output: 5W, 7.5W, 10W, 15W
Test Standard(s) Test Method(s)	<ul> <li>FCC Part 1.1310, 1.1307(b)</li> <li>KDB680106 D01 RF Exposure Wireless Charging Apps v03</li> </ul>

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 Date of Test Jul. 07, 2020 Jul. 07~17, 2020

Joly wo

(Engineer / Dolly Mo)

12:1. Thank

(Supervisor / Bibo Zhang)

(Manager / Tom Chen)

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com Code:AB-RF-05-a

Hotline 400-003-0500 www.anbotek.com

+ pote

Prepared By

Reviewer

Approved & Authorized Signer



# **1. General Information**

# 1.1. Client Information

Applicant	:	Shenzhen Renqing Excellent Technology Co., Ltd.
Address	:	104, No.15, Longfu Industrial Zone Tongsheng Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China
Manufacturer	:	Shenzhen Renqing Excellent Technology Co., Ltd.
Address	:	104, No.15, Longfu Industrial Zone Tongsheng Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China
Factory	:	Shenzhen Renqing Excellent Technology Co., Ltd.
Address	:	104, No.15, Longfu Industrial Zone Tongsheng Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China

# 1.2. Description of Device (EUT)

:	Multi-function UVC Sterilize	er(Wireless Charging)
:	XW01	otek Anboliek Anbolek Anbolek Anbolek
:	ROCK, rock space, ihave,	RockLava, ROCK BEAR
:	AC 120V, 60Hz for adapter	Anbotek Anboten Anbotek Anbotek Anbotek
:	1-2-1(Normal Sample), 1-2	-1(Engineering Sample)
	Operation Frequency:	110.1-205KHz
	Modulation Type:	QI And Andrew Andrew Andrew
·	Antenna Type:	Inductive loop coil Antenna
	Antenna Gain(Peak):	0 dBi
	:	<ul> <li>XW01</li> <li>ROCK, rock space, ihave,</li> <li>AC 120V, 60Hz for adapter</li> <li>1-2-1(Normal Sample), 1-2</li> <li>Operation Frequency:</li> <li>Modulation Type:</li> <li>Antenna Type:</li> </ul>

or the User's Manual.

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

# Code:AB-RF-05-a



# Report No.: 18220WC00091602 FCC ID: 2AUA9-RQZY005 Page 5 of 13

# 1.3. Auxiliary Equipment Used During Test

Adapte	ər	:	Manufacturer: Anker	Anborek	Anbotek	Anboren P	Anbotek
N			M/N: A2013 Input: 100-240V-0.7A 50-60H	z Anbotek	Anboten ek nbotek	Anbotek	Anbotek
			Output: 3.6-5.5V == 3A / 6.5-	9V= 2A/9	9-12V== 1.5A		Ano

# 1.4. Test Equipment List

P	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	1 Anb	Magnetic field meter	NARDA	ELT-400	423623	Dec. 23, 2019	1 Year
X	2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2017	3 Year
.01	. 3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2017	3 Year

#### 1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
×.		abotek Anbotek Anbotek Anbotek Anbotek Anbotek
Conduction Uncertainty	:	Uc = 3.4 dB

# 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

#### Shenzhen Anbotek Compliance Laboratory Limited

#### Code:AB-RF-05-a

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



Report No.: 18220WC00091602

FCC ID: 2AUA9-RQZY005 Page 6 of 13

# 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.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
	(A) Limits for Occ	upational/Controlled Ex	posures	
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	/	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 <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

Limits For Maximum Permissible Exposure (MPE)

F=frequency in MHz

\*=Plane-wave equivalent power density

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).

Shenzhen Anbotek Compliance Laboratory Limited

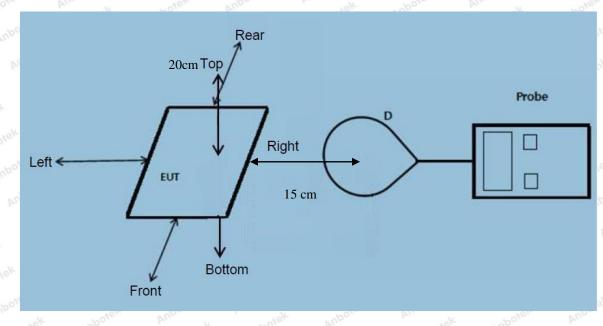
Code:AB-RF-05-a

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

Anbotek Product Safety

# Report No.: 18220WC00091602 FCC ID: 2AUA9-RQZY005 Page 7 of 13

# 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.

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

# Code:AB-RF-05-a

Anbotek Product Safety

#### Report No.: 18220WC00091602

#### FCC ID: 2AUA9-RQZY005 Page 8 of 13

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 Multi-function UVC Sterilizer(Wireless Charging)

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

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

# Code:AB-RF-05-a



# Report No.: 18220WC00091602 FCC ID: 2AUA9-RQZY005 Page 9 of 13

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

201	- CV	- M-	0.0	Par.	22923	10	- CV	- No.
Anboi Dottom/K	Frequency	Test	Test	Test	Test	Test	Reference	Limits
Battery	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	A A	on <sup>elk</sup> B pr	C	D	ArBoten	(V/m)	(V/m)
stek Anb	Sten And	Lotek I	nbotek	Anbon	putotek	Anbor	Anu ho	lek Ar
1%	110.1~205	0.42	0.35	0.27	0.44	0.93	307	614
anbotek.	Anbore	Anthotek	Anbotek	Anbo	rek no	potek I	inbote Ar	hotek
hnbotek	Anbore	Annobotel	Anbot	an Aup	otek	Anbotek	Anbore	An-botek
50%	110.1~205	1.42	1.51	1.27	1.43	1.55	307	614
ek nobc	tek Anbor	PUT PUT	hotek	Anbotek	Anbo	honbote	Anbore	An
stek N	tootek Ant	Porto P	botek	Anbotek	Anbo	ek nob	otek Anbor	An
99%	110.1~205	2.34	2.58	2.46	2.48	2.55	307	614
Anbore	Amobotek	Anboten	Anb	K Anbo	rek An	you p	abotek	Anboten
Anbo	Anbotek	Anboter	Anu L	otek A	ibotek	Anbo	hnbotek	Anboto
Stand-by	110.1~205	0.47	0.33	0.75	0.47	0.55	307	614
ek Aupo	stek sak	otek pr	pote.	knu hotek	Anbotek	Anbo.	tek phote	K Ant

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

# Code:AB-RF-05-a



#### Report No.: 18220WC00091602 FCC ID: 2AUA9-RQZY005 Page 10 of 13

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)
tek ant	otek Anbe	xek pr	obotek	Anboto	Andhotek	Anbote	Aupo	ek h
1%	110.1~205	0.044	0.052	0.044	0.048	0.063	0.815	1.63
hotek	Anbotek	Anbore	Am	Anbote	k Aup.	Lotek p	nbotek Ar	
Anbewotek	Anbotek	Anbor	K	rek Anb	A No	hotek	Anbotek	Anbou
50%	110.1~205	0.30	0.55	0.37	0.45	0.48	0.815	1.63
Anbo	ptek Anbot	ek Anb	Nek Pi	obotek	Anboten	Ander	Anbotek	
en Ann	hotek Ar	potek p	nbo, rek	An obotek	Anbote	And he	rek Anbot	ek p
99%	110.1~205	0.42	0.51	0.27	0.36	0.55	0.815	1.63
Anboten	Anorwotek	Anbotek	Aupor	ek sop	stek Ar	poter A	in wotek	
Anboren	And	Anbotel	Aupo	-telt	obotek	Anboren	Anotok	Anbotet
Stand-by	110.1~205	0.24	0.27	0.43	0.32	0.34	0.815	1.63
sk pubc	ten Anou	stek N	hotek	Anbors	An	Anboten	And	

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

Note: (1)All the situation(full load, half load and empty load) has been tested,only the worst situation (full load, Wireless Output: 15W) was recorded in the report.

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

#### Code:AB-RF-05-a

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

# Code:AB-RF-05-a

Hotline 400-003-0500 www.anbotek.com



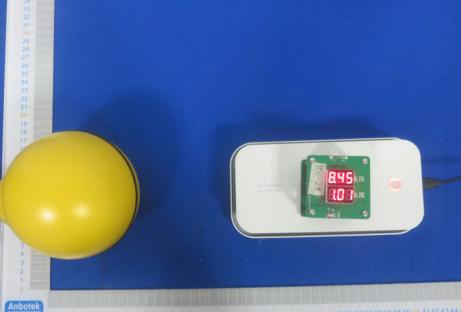


Photo of MPE Measurement

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

Report No.: 18220WC00091602

FCC ID: 2AUA9-RQZY005 Page 11 of 13

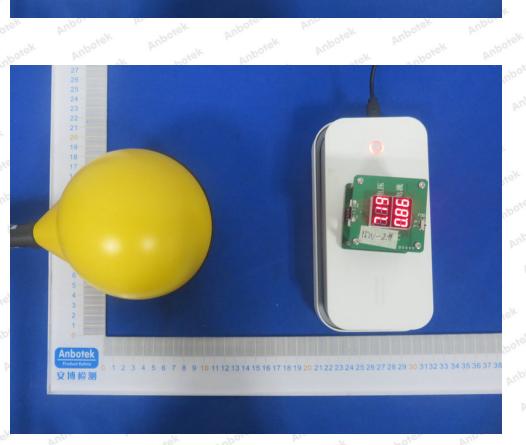


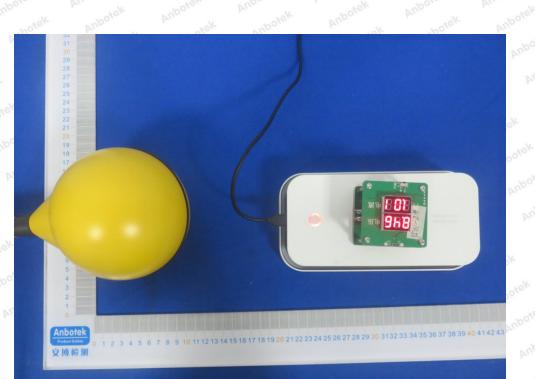


Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

# Code:AB-RF-05-a

Hotline 400-003-0500 www.anbotek.com





Report No.: 18220WC00091602 FCC ID: 2AUA9-RQZY005 Page 12 of 13



Anbotek Product Safety

#### Report No.: 18220WC00091602

FCC ID: 2AUA9-RQZY005 Page 13 of 13



#### ----- End of Report ------

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

# Code:AB-RF-05-a