

Date

 Report No.: 18220WC20027202
 FCC ID: 2AY5D-T2
 Page 1 of 13

FCC TEST REPORT

Client Name	: Shenzhen USV Technology Co.,Ltd
ak Anbore An	4th to the south, building B20, Hengfeng Industrial City,
Address	: Hangchen, Bao'an District, Shenzhen City, Guangdong Province China 518100
Product Name	: 4-IN-1 Magnetic wireless charger
Anbolee Anto	Anborek Anborek Anborek Anborek Anborek

: Mar. 18, 2022



Shenzhen Anbotek Compliance Laboratory Limited

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Code:AB-RF-05-a



FCC ID: 2AY5D-T2 Page 2

of 13

Contents

1. G	eneral Information	don the		nbore An		4
	1.1. Client Information					4
	1.2. Description of Device (EUT)	in otek	Anbo	All worker	enbote.	4
	1.3. Auxiliary Equipment Used During Te	est	poloote	Aun Weiter	botek	5
	1.4. Test Equipment List		National Action	Anbo		5
	1.5. Measurement Uncertainty	lek Anbo		rek pobote	Ann	5
	1.6. Description of Test Facility	and the second	pore Ann	^{to} dy,	en Aupo	6
	leasurement and Result			1000 In 1000	daq ^{Helt} a	7
	2.1. Requirements	Pupu		And And And		7
	2.2. Test Setup	Anbore	Managak	autoren .	PUD-	8
	2.3. Test Procedure	unboten.	Ano	and the second	MIDOLE	8
	2.4. Test Result	N	M ANDON		unpoten	8
APP	PENDIX I TEST SETUP PHOTOGRAP	Н	^{to} rian Han	er pro-	kk	11

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Code:AB-RF-05-a



FCC ID: 2AY5D-T2

Page 3 of 13

TEST REPORT

Test Standard(s) :	FCC Part 1.1310, 1.1307(b)
	Headphone output: 2.5W
Rating(s) :	Watch output: 2.0W
	Phone output: 10W /7.5W/ 5W
	Input: 5V-9V/2A
Trade Mark :	N.A. more property product
Model No. :	T2, T3
inbote. And tek	Tobotek Anbor A hotek Anbore
Product Name :	4-IN-1 Magnetic wireless charger
Manufacturer :	Shenzhen USV Technology Co.,Ltd
k hotek Anborr	Ant tek unbotek Anbo
Applicant :	Shenzhen USV Technology Co.,Ltd

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 Date of Test

Prepared By

Feb. 21, 2022 Feb. 21~ Mar. 04, 2022

Nian Xiu Chen

(Nianxiu Chen)

influ

Approved & Authorized Signer

(Kingkong Jin)

Shenzhen Anbotek Compliance Laboratory Limited

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Code:AB-RF-05-a



FCC ID: 2AY5D-T2

Page 4 of 13

1. General Information

1.1. Client Information

Applicant	:	Shenzhen USV Technology Co.,Ltd
Address	:	4th to the south, building B20, Hengfeng Industrial City, Hangchen, Bao'an District, Shenzhen City, Guangdong Province China 518100
Manufacturer	:	Shenzhen USV Technology Co.,Ltd
Address	:	4th to the south, building B20, Hengfeng Industrial City, Hangchen, Bao'an District, Shenzhen City, Guangdong Province China 518100
Factory	:	Shenzhen USV Technology Co.,Ltd
Address	:	4th to the south, building B20, Hengfeng Industrial City, Hangchen, Bao'an District, Shenzhen City, Guangdong Province China 518100

1.2. Description of Device (EUT)

Product Name	:	4-IN-1 Magnetic wireless char	gero ^{olek} Andrek Anbolek Anbo					
Model No.	:	T2, T3 (Note: All samples are the san so we prepare "T2" for test on	ne except the model number and appearance, y.)					
Trade Mark	•	N.A.	tek Anbotek Anbotek Anbotek					
Test Power Supply	:	AC 120V, 60Hz for adapter	C 120V, 60Hz for adapter					
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)						
		Operation Frequency:	Phone/Headphone: 110.1-205KHz Watch: 216KHz, 325KHz					
Droduct		Modulation Type:	ASK MUSIC AND					
Product Description	:	Antenna Type:	Inductive loop coil Antenna					
		Antenna Gain(Peak):	0 dBi (Provided by customer)					
		Adapter:	N/A And Andrew Andrew					

or the User's Manual.

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Code:AB-RF-05-a



Report No.: 18220WC20027202 FCC ID: 2AY5D-T2

Page 5 of 13

1.3. Auxiliary Equipment Used During Test

Adapter	:	Model: MDY-11-EX Input: 100-240V~50/60Hz, 07A Output: 5V=3A/ 9V=3A/ 12V=2.25A/ 20V=1.35A/ 11V=3A Max
Wireless charging	:	Manufacturer: Shenzhen Ouju Technology Co., Ltd.
load		M/N: CD2577
		Power: 5W/7.5W/10W/15W
		Last Cal.: Oct. 26, 2021
		Cal. Interval: 1 Year
Apple AirPods	:	M/N: AirPods Pro
Apple Watch	:	M/N: WR-50M

1.4. Test Equipment List

5	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	Anboten 1 ho	Electric and Magnetic field	NARDA	EHP-200A	180ZX10202	Nov. 21, 2021	1 Year
5	Ann	Analyzer	Anbo, tek	mbotek Anbo	e. And	stek Anbotek	Anbo

1.5. Measurement Uncertainty

Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)	Anbo	Anbotek	Anbors
Electric Field Reading(V/m)	:	+/-0.03679(V/m)	Andwotek	Anbotek	Anbor

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Code:AB-RF-05-a



FCC ID: 2AY5D-T2

Page 6 of 13

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 registered 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.

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.

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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Code:AB-RF-05-a



FCC ID: 2AY5D-T2 Page 7 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 ²)	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 ²)	6
30-300	61.4	0.163	1.0	6
300-1500	1	1	f/300	6
1500-100,000	1	7	5	6
	(B) Limits for Genera	I Population/Uncontrolle	d Exposure	

Limits For Maximum Permissible Exposure (MPE)

*(100) 0.3-1.34 614 1.63 30 *(180/f²) 1.34-30 824/f 2.19/f 30 30-300 27.5 0.073 0.2 30 1 1 300-1500 f/1500 30 1500-100,000 1 1.0 30

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).

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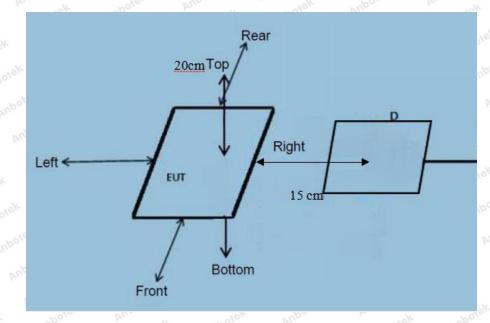
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Anbotek Product Safety

 Report No.: 18220WC20027202
 FCC ID: 2AY5D-T2
 Page 8 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 and 216KHz, 325KHz.
- 2) Output power from each primary coil is less than 15 watts
- The maximum output power of the primary coil is 10W.

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Code:AB-RF-05-a



Report No.: 18220WC20027202 FCC ID: 2AY5D-T2 Page 9 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 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 exposure conditions

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.

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Code:AB-RF-05-a



Report No.: 18220WC20027202 FCC ID: 2AY5D-T2 Page 10 of 1

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

Temperature:	22.5°C	Relative Humidity:	49 %
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 power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
1%	110.1-205/ 325	0.39	0.48	0.43	0.44	0.39	307	614
50%	110.1-205/ 325	1.46	1.90	1.39	1.52	1.46	307	614
99%	110.1-205/ 325	2.46	2.86	2.47	2.42	2.46	307	614
Stand-by	110.1-205/ 325	0.36	0.51	0.35	0.34	0.36	307	614

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)
1%	110.1-205/ 325	0.026	0.048	0.054	0.038	0.048	0.815	1.63
50%	110.1-205/ 325	0.34	0.43	0.33	0.33	0.50	0.815	1.63
99%	110.1-205/ 325	0.40	0.58	0.47	0.29	0.28	0.815	1.63
Stand-by	110.1-205/ 325	0.55	0.37	0.47	0.59	0.45	0.815	1.63

Note: 1)All the situation(full load, half load and empty load) has been tested,only the worst situation (full load 14.5W) was recorded in the report.

2)The two frequency points of 216KHz and 325KHz are the working frequency points of watch wireless charging. Only one of the two frequency points can work at the same time. During the test, 325KHz is measured.

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Code:AB-RF-05-a

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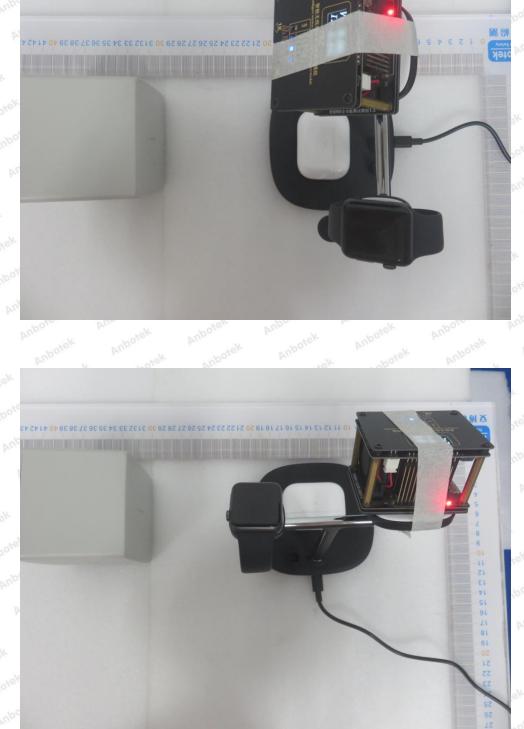
Product Safety

FCC ID: 2AY5D-T2

Page 11 of 13

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement



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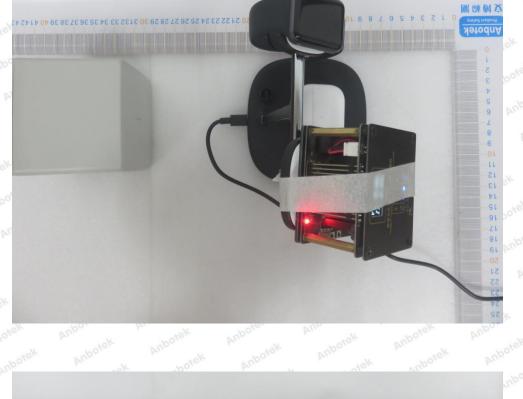
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3 4 9

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Report No.: 18220WC20027202 FCC ID: 2AY5D-T2 Page 12 of 13



FCC ID: 2AY5D-T2 Page 13 of 13



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