

Date

 Report No.: 18220WC00140502
 FCC ID: 2APEW-EFC0030
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FCC TEST REPORT

Client Name	: Electronic Silk Road (Shenzhen) Tech Co., Ltd
ek Anborek Anbor	7th F,Building 10B,Taihua Wutong Industrial Park,Gushu
Address	 Development Zones, Xixiang Street, Bao'an Area, Shenzhen, China
Product Name	: 2-IN-1 Wireless Charging Station

: Oct. 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

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Applicant	Electronic Silk Road (Shenzhen) Tech Co., Ltd
Manufacturer	Electronic Silk Road (Shenzhen) Tech Co., Ltd
Product Name	2-IN-1 Wireless Charging Station
Model No.	: EFC003O
Trade Mark	ESR potek prodek prodek prodek
Rating(s)	Input: 5V/3A, 9V/2A : Wireless output: 5W, 7.5W, 10W USB output: 5W
Test Standard(s)	· ECC Part 1 1310 1 1307(b)

CC 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 Date of Test

Sept. 23, 2020 Sept. 23~Oct. 19, 2020

Tilia Zhong

Prepared By

(Engineer / Yilia Zhong)

Bibs Thank

(Supervisor / Bibo Zhang)

Kim Kom

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1. General Information

1.1. Client Information

Applicant	Electronic Silk Road (Shenzhen) Tech Co., Ltd
Address	7th F,Building 10B,Taihua Wutong Industrial Park,Gushu Development Zones, Xixiang Street,Bao'an Area, Shenzhen, China
Manufacturer	Electronic Silk Road (Shenzhen) Tech Co., Ltd
Address	7th F,Building 10B,Taihua Wutong Industrial Park,Gushu Development Zones, Xixiang Street,Bao'an Area, Shenzhen, China
Factory	: Electronic Silk Road (Shenzhen) Tech Co., Ltd
Address	7th F,Building 10B,Taihua Wutong Industrial Park,Gushu Development Zones, Xixiang Street,Bao'an Area, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	2-IN-1 Wireless Charging Stat	ion ^{botek} Anbotek Anbotek Anbotek
Model No.	:	EFC003O	Anbore Annotek Anborek Anboren Anbor
Trade Mark	:	ESR	Anborek Anborek Anbore An
Test Power Supply	:	AC 120V, 60Hz for adapter	notek Anbotek Anbotek Anbotek
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(I	Engineering Sample)
		Operation Frequency:	110.1-205KHz
Product		Modulation Type:	FSK hotek Anborek Anborek Anb
Description	ŀ	Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi

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	:	M/N: A2013 Input: 100-240V 50-60Hz 0.7A	And	Anbotek	Anbou
		Output: 3.6-5.5V 3A / 6.5-9V 2A / 9-12V	1.5A	Anboten	And

1.4. Test Equipment List

	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	Antote	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	3 Year
Ī	2nb	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2017	3 Year
K.	3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2017	3 Year

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	Anbotek P	inbo. Atek M	botek
		Ur = 3.8 dB (Vertical)	Anboten	Anboutek	Anbotek
		otek Anboi Ai Ai	Anboten	Andhotek	Anbote
Conduction Uncertainty	:	Uc = 3.4 dB	k Aupote	Any botek	Ant

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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 30, 2020.

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, September 30, 2020.

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.

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	1	5	6
	(B) Limits for Genera	I Population/Uncontrolle	ed Exposure	

Limits For Maximum Permissible Exposure (MPE)

614 1.63 *(100) 0.3-1.34 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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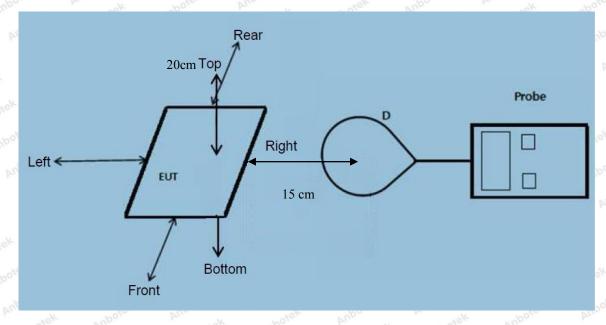
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2.2. Test Setup



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 10W.

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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.

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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:	23.9°C	Relative Humidity:	54 %
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

	10 M	- Po		101	DAY	5 B		- Pro
Dettern (Frequency	Test	Test	Test	Test	Test	Reference	Limits
Battery	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	Anbo	Botek	Cibote	D	otek E	(V/m)	(V/m)
Annobotek	Anboten	Anbu	Anboth	sk Aupo	rek pr	abotek	Anbotet	Anbusotek
1%	110.1-205	0.42	0.51	0.46	0.47	0.59	307	614
All abo		en Aupr	Hotek	nbotek	Anbois	All	Anboten	Anb
n ok		oter pr	to tek	Anbotek	Anbor	k stoc	rek Anbote	, Aun
50%	110.1-205	1.38	1.82	1.31	1.44	1.61	307	614
Anbore		Anboten	Anbo	e nobo	lek Anb	ore Al	botek	Inboter
Anbor	An obotek	Anboten	Anos	otek ar	potek I	inpost	pin abotek	Anboten
99%	110.1-205	2.38	2.78	2.39	2.34	2.80	307	614
ek Anbo		otek An	potek P	nbo	Anbotek	Anbore	ok shote	Anbr
botek An	Por Pur	Abotek.	Anboten	Anburgtek	Anbote	Anbo	all Alex	stek A
Stand-by	110.1-205	0.46	0.61	0.45	0.44	0.58	307	614
Anbotek	Anbore	Ant	Anbotel	Anbo	otek p	nbotek	Anbore P	nobotek

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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 Anb	stek Anbo	-tek	obotek	Anbore	And hotek	Anbotek	Anbo	K 10
1%	110.1-205	0.029	0.051	0.057	0.041	0.051	0.815	1.63
hotek	Anbotek	Anbo, stek	Anbotek	Anbote	Anu	otek An	potek Ant	o.
Anthotek	Anbotek	Anbountek	h. nbot	ek Anbo	to An	hotek	Anbotek	inbu stek
50%	110.1-205	0.33	0.42	0.32	0.32	0.49	0.815	1.63
Ant he	tek Anboth	anbc	-rek	abotek	Anbors	Anthotek	Anbotek	Anbe
	botek Ant	oten Al		Anbotek	Anbore	K both	k Anbote	P'
99%	110.1-205	0.52	0.70	0.59	0.41	0.40	0.815	1.63
Anbore	Ann hotek	Anbotek	Anbo	K subol	ek Anb	ore An	hotek p	nbotek
Anbore	Ann botek	Anbotek	Anbo	stek so	potek I	inboto	kn- hotek	Anbotek
Stand-by	110.1-205	0.54	0.36	0.46	0.58	0.44	0.815	1.63
	Ano Ano	otek an		inbo. Lok	abotek	Anbote	Antwotek	0.P

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 10W) was recorded in the report.

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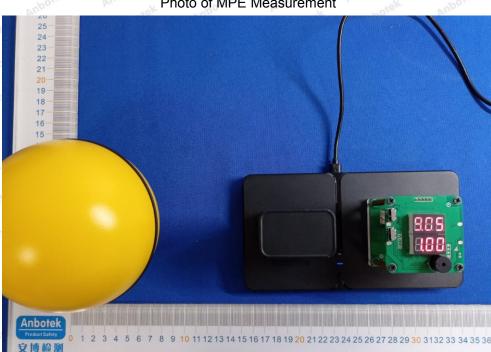


Photo of MPE Measurement

APPENDIX I -- TEST SETUP PHOTOGRAPH

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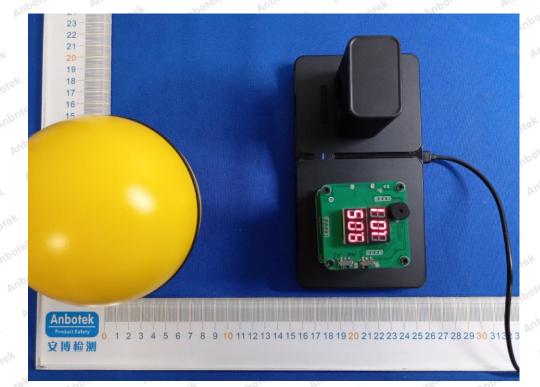


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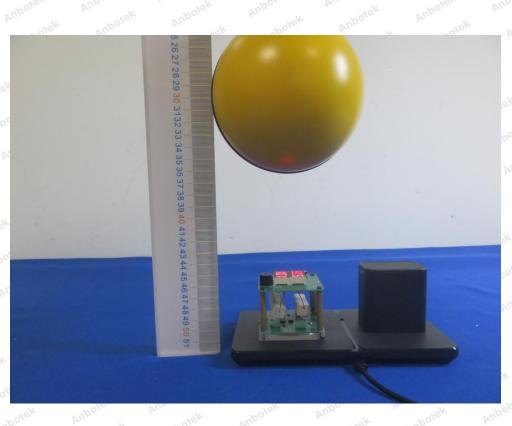


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