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FCC TEST REPORT

Client Name : Dongguan Tyjin Electronics Co., Ltd.

Address Shitouling Industrial Zone, Wulian Village, Fenggang

Town, Dongguan, China

Product Name : Wireless Charging Stand

Date : Jan. 09, 2020

Shenzhen Anbotek Compliance Laboratory Limited

Email: service@anbotek.com



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TEST REPORT

Applicant : Dongguan Tyjin Electronics Co., Ltd.

Manufacturer : Dongguan Tyjin Electronics Co., Ltd.

Product Name : Wireless Charging Stand

Model No. : C-120, WIABLK100010767

Trade Mark : N.A.

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

Wireless output: 5W

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
Dec. 06, 2019
Dec. 06-27, 2019

Prepared By

Reviewer

(Supervisor / Bibo Zhang)

Approved & Authorized Signer

(Manager / Tom Chen)

Shenzhen Anbotek Compliance Laboratory Limited





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1. General Information

1.1. Client Information

- CV	_	
Applicant	:	Dongguan Tyjin Electronics Co., Ltd.
Address	:	Shitouling Industrial Zone, Wulian Village, Fenggang Town, Dongguan, China
Manufacturer	:	Dongguan Tyjin Electronics Co., Ltd.
Address	:	Shitouling Industrial Zone, Wulian Village, Fenggang Town, Dongguan, China
Factory	:	Dongguan Tyjin Electronics Co., Ltd.
Address	:	Shitouling Industrial Zone, Wulian Village, Fenggang Town, Dongguan, China

1.2. Description of Device (EUT)

260,		- 10°	A. A
Product Name	:	Wireless Charging Stand	
Model No.	:	C-120, WIABLK100010767 (Note: All samples are the we prepare "C-120" for test	same except the model number & appearance, so
Trade Mark	:	N.A.	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for adapter	Anbotek Anbotek Anbotek Anbotek
Test Sample No.	:	1-2-1(Normal Sample), 1-2	-1(Engineering Sample)
		Operation Frequency:	110.1-205KHz
Product		Modulation Type:	ASK Anbotek Anbotek Anbotek
Description	i	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	:	Manufacturer: ZTE
		M/N: STC-A2050I1000USBA-C S/N: 201202102100876 Input: 100-240V~ 50/60Hz, 0.3A Output: DC 5V, 2000mA
Mobile Phone	:	iPhone

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	
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)	pote
		Ur = 3.8 dB (Vertical)	Anlo
		Anborek Anborek Anborek Anborek	
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

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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 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	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	1.0	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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Code:AB-RF-05-a

Hotline

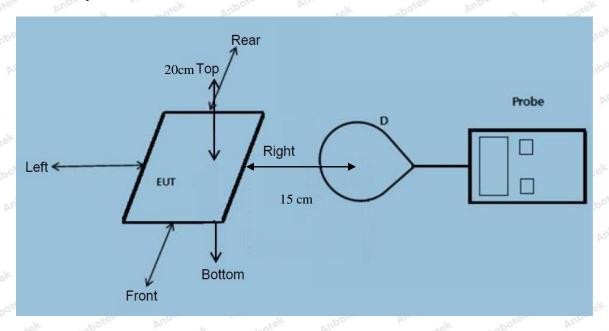
Hotline 400-003-0500 www.anbotek.com

^{*=}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.

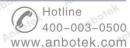
Remark

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 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.
- Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
 - The EUT is a Mobile Power Pack with Wireless Charging Stand
- 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:	23.8°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

100		100		0.33	1	400	107	3.7
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
power	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	A A	otel B M	C	Dek	ALE OFER	(V/m)	(V/m)
Jek Mup,	oten Anna	ootek	nbotek	Aupo.	a nbotek	Anbore	And Mo	ek An
1%	110.1~205	0.36	0.39	0.27	0.44	0.92	307	614
abotek		Andhorek	Anbotek	Aupo,	rek Ai.	potek	rupoter AL	hotek
k. abotek	Anbore	Ann	Anbot	Sk Aup	tek h	anbotek	Anbore	Andhorek
50%	110.1~205	1.58	1.31	1.23	1.35	1.50	307	614
ek upc		-K AMU	hotek	Anbotek	Anbo.	A. nbotel	Anbore,	K Ann
rek h	ibotek Ant	Jose b	hotek	Anbotek	Aupo	k "Up,	otek Anbot	VK VU
99%	110.1~205	2.22	2.15	2.19	2.24	2.03	307	614
Anbore		Aupoten	AUD	k Anbo	rek An	or b	abotek	Anboten
Aupo.	an abotek	Anborer	Y VUC	otek A	botek	Aupo, sek	projek	Anbore
Stand-by	110.1~205	0.44	0.37	0.75	0.46	0.58	307	614
ek Aupo		otek M	boten	kno kotek	Anbotek	Anbor	rek pi	k Vup



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

	J	2.11		W 100			The state of the s	
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
200	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	Α	otek B	"pote C	Anba D	Entek	(A/m)	(A/m)
iek Ant	otek Anbe	rek bu	nbotek	Anbore	Ann	Anbote	Aupo	iek .
1%	110.1~205	0.046	0.053	0.045	0.042	0.063	0.815	1.63
potek		Anbore	Air	Anbore	K Anb	work p	nbotek Ar	por
Ann	Anbotek	Aupo	r noo	lek but	ole N	botek	Anborek	Anbo. otel
50%	110.1~205	0.24	0.57	0.36	0.45	0.42	0.815	1.63
-K AND		ek Aup	o. A	abotek	Anbore.	And	Anbotek	Anb
or Hun	hotek Ar	potek F	iupo,	Anbotek	Anbore	ok No	rek Anbot	Sk. b
99%	110.1~205	0.48	0.55	0.54	0.33	0.51	0.815	1.63
Anbotek		Anbotek	Anboro	ek ab	otek Pi	poter A	lo otek	Anbotek
Anboren	Anbotek	Anbotel	Aupo	rek by	obotek	Anborec	Anb	Anborek
Stand-by	110.1~205	0.20	0.16	0.32	0.38	0.35	0.815	1.63
K Anbo		otek N	abotek	Anbore	VII.	Anbotek	Anbeof	JK DI



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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement





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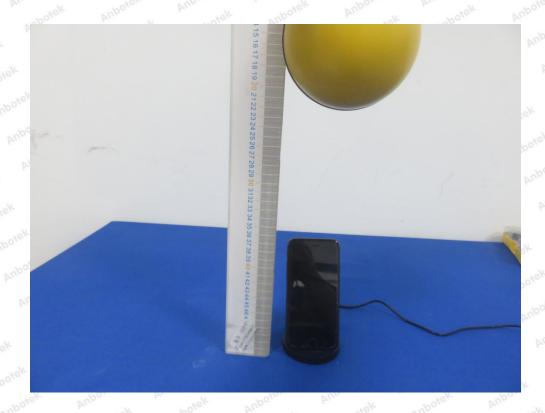




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