FCC TEST REPORT

For

Dongguan Tyjin Electronics Co., Ltd.

Wireless Charging Pad

Model No.: C-067

Prepared For : Dongguan Tyjin Electronics Co., Ltd.

Address Shitouling Industrial Zone, Wulian Village, Fenggang Town, Dongguan,

China 523690

Prepared By : 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.518102

Tel: (86) 755-26066440 Fax: (86) 755-26014772

Report Number : SZAWW190104002-02

Date of Test : Jan. 04, 2019

Date of Test : Jan. 04~Feb. 19, 2019

Date of Report : Feb. 19, 2019



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TEST REPORT

Applicant : Dongguan Tyjin Electronics Co., Ltd.

Manufacturer : Dongguan Tyjin Electronics Co., Ltd.

Product Name : Wireless Charging Pad

Model No. : C-067

Trade Mark : N.A.

Rating(s) Input: 5V 2A

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 Test	Jan. 04~Feb. 19, 2019
Date of Test Compliance Address Anbotek	12/Al Yarg
(A) (B)	Andrew Amore Olivay Garg
Prepared By	Olivay larg
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* Approved *	(Engineer / Oliay Yang)
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	(Supervisor / Snowy Meng)
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A	Sally Zhong
Approved & Authorized Signer	parek Pupo, by Jest Marie, Pup
Anbotek Anbotek Anbotek	(Manager / Sally Zhang)

1. General Information

1.1. Client Information

Applicant	:	Dongguan Tyjin Electronics Co., Ltd.
Address	:	Shitouling Industrial Zone, Wulian Village, Fenggang Town, Dongguan, China 523690
Manufacturer	:	Dongguan Tyjin Electronics Co., Ltd.
Address	:	Shitouling Industrial Zone, Wulian Village, Fenggang Town, Dongguan, China 523690
Factory	:	Dongguan Tyjin Electronics Co., Ltd.
Address	:	Shitouling Industrial Zone, Wulian Village, Fenggang Town, Dongguan, China 523690

1.2. Description of Device (EUT)

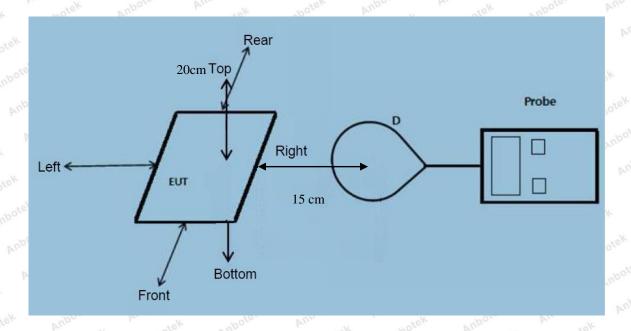
	Product Name	:	Wireless Charging Pad	Anbotek Anbotek Anbotek Anbotek
	Model No.	:	C-067	k hotek Anbotek Anbotek Anbo
	Trade Mark	:	N.A.	otek Anbotek Anbotek Anbotek
	Test Power Supply	:	AC 120V, 60Hz for adapter	anbotek Anbotek Anbotek Anbotek
	Test Sample No.	:	S1(Normal Sample), S2(Engineer	ring Sample)
			Operation Frequency:	111~205KHz
	Product Description		Modulation Type:	MSK
		:	Antenna Type:	Inductive loop coil Antenna
L			Antenna Gain(Peak):	0 dBi Anbotek Anbotek Anbotek
	P P 43 P		lex	a hotel Arro I rately about

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.3. Auxiliary Equipment Used During Test

	Adapter	:	Model: A2013
100			Input: 100-240V~ 50-60Hz 0.7A
1			Output: 3.6-6.5V=== 3A/ 6.5-9V=== 2A/ 9-12V=== 1.5A
1			Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anti
	Mobile Phone	:	iPhone





Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

1.5. Test Equipment List

	Item	Equipment Manufacturer		Model No.	Serial No.	Last Cal.	Cal. Interval
	1 000	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	1 Year
0	2	E-Field Probe	Narda	EF0391	Q15221	Dec. 24, 2018	1 Year
~	stel3	H-Field Probe	Narda	HF3061	Q15835	Dec. 24, 2018	1 Year

1.6. Measurement Uncertainty

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

1.7. 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, July 31, 2017.

ISED-Registration No.: 8058A-1

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-1, June 13, 2016.

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

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 Electric field strength (MHz) (V/m)		Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging tim (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 61.4 300-1500 /		0.163	1.0	6					
		1	f/300						
1500-100,000	1	1	5	6					
	(B) Limits for Genera	l Population/Uncontrolle	ed 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	/	/	1.0	30					

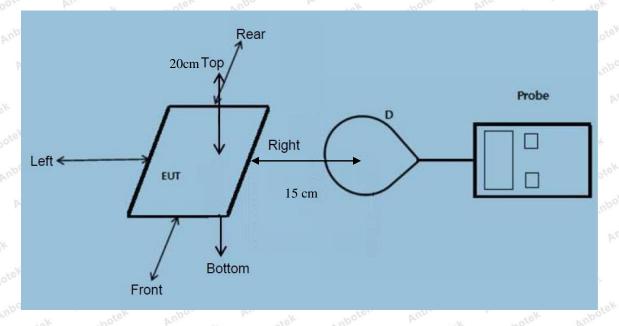
F=frequency in MHz

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).

⁼Plane-wave equivalent power density



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 111~205KHz
 - 2) Output power from each primary coil is less than 15 watts
 - The maximum output power of the primary coil is 5W.
- 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

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:	53 %
Pressure:	1012 hPa	Test Voltage:	AC 120V, 60Hz for adapter

E-Field Strength at 15 cm surrounding the EUT and 15cm 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%	111~205	0.34	0.23	0.21	0.56	0.48	307	614
Upofek Vi	abotek Ar	Vupotek	Anbotek Kun	Anbotek	Anbo	ek Pupo,	botek Anbo	lpotek Vi
50%	111~205	1.85	1.24	1.37	1.58	1.69	307	614
99%	111~205	2.13	2.35	2.97	2.65	2.16	307	614
hotek Ar	Anbotek An	Anbotek tek	Anbotek Anbotek	Anbote'	Anbot	ek Anbos	potek Anbo	botek r
Stand-by	111~205	0.22	0.71	0.54	0.76	0.52	307	614



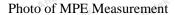
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

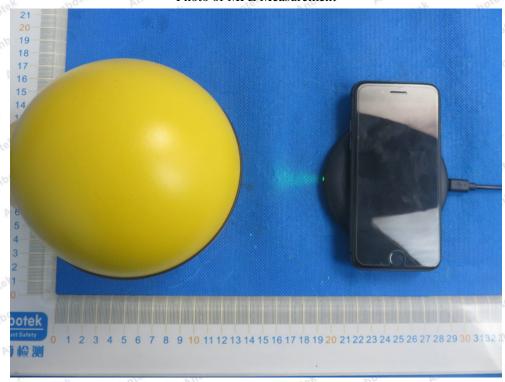
260	140	No	400	Dille		191	O. P.	37
Dottoky	Frequency	Test	Test	Test	Test M	Test	Reference	Limits
Battery	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	A	ek B Ant	C	D	Anb \mathbf{E}^{gk}	(A/m)	(A/m)
K Anbore	K Amb	otek Ar	botek	Yuporg ***	Andotek	Anbotek	Aupo	k 20/2
1%	111~205	0.043	0.056	0.048	0.045	0.057	0.815	1.63
abotek	inpoter (mbo	Anbotek	Anbote	ok Anu	otek Anb	otek Anb	o. sek
Anbotek	Aupoten	Anbabotek	Anbote	k Anbo	P.V.	mbotek p	inpoten b	inbo
50%	111~205	0.36	0.38	0.44	0.37	0.48	0.815	1.63
k hote	k Anbote	Anbot	wek .	nbotek	Br.	Ann	Anbotek	Aupo
stek onb	otek Anb	yen An	po otek	Anbotek	Aupore	k An-	Anbote	Anb
99%	111~205	0.42	0.51	0.55	0.37	0.47	0.815	1.63
upore b	hotek	Anbotek	Anbo	, abot	sk Anb	otek Anbr	botek A	nbotek
Anbote	Anabotek	Anbotek	Anbox	10.	otek p	upole A	no botek	Anbotek
Stand-by	111~205	0.43	0.44	0.36	0.48	0.39	0.815	1.63
Anbore	Y Ans	tek ant	otek P	upo	botek	Anboten	Anu	dn

Remark: All the conditions have been tested. It is found that 5W is the worst mode, and the data in the report only reflects the worst mode.



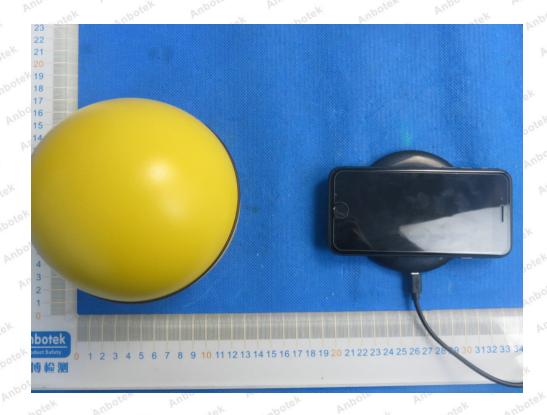
APPENDIX I -- TEST SETUP PHOTOGRAPH

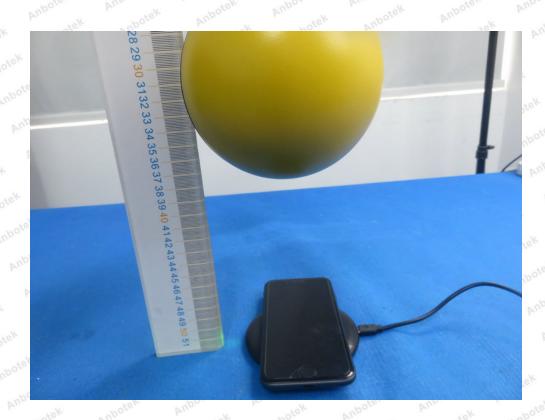












Shenzhen Anbotek Compliance Laboratory Limited Tel:(86)755-26066440 Fax:(86)755-26014772 www.anbotek.com

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