

Report No.: 18220WC10007502 FCC ID: 2AQRPTJC150WC Page 1 of 14

FCC TEST REPORT

Client Name : Dongguan Tyjin Electronics Co., Ltd.

Address Room 101, Building 2, No.7 Keyan Road Wulian Village,

Fenggang Town Dongguan, Guangdong China 523690

Product Name : Wireless Charging Pad

Date : May 28, 2021

Shenzhen Anbotek Compliance Laboratory Limited



Contents

1. (General Information	4
	1.1. Client Information	4
	1.2. Description of Device (EUT)	4
	1.3. Auxiliary Equipment Used During Test	P5
	1.4. Test Equipment List	5
	1.5. Measurement Uncertainty	h5
	1.6. Description of Test Facility	е
2. I	Measurement and Result	7
	2.1. Requirements	
	2.2. Test Setup	8
	2.3. Test Procedure	8
	2.4. Test Result	8
	2.4.1. Equipment Approval Considerations item 5.b of KDB 680106 D01 v03	8
	2.4.2. Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.130	7(b)
	1.1310	10
ΑP	PPENDIX I TEST SETUP PHOTOGRAPH	12

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Report No.: 18220WC10007502 FCC ID: 2AQRPTJC150WC Page 3 of 14

TEST REPORT

Applicant : Dongguan Tyjin Electronics Co., Ltd.

Manufacturer : Dongguan Tyjin Electronics Co., Ltd.

Product Name : Wireless Charging Pad

Model No. : C-150, 2MNQI0728

Trade Mark : N.A.

Rating(s) : Input: DC 5V, 2A/ DC 9V, 1.67A

Output: 10W/7.5W/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		Jan. 13, 2021	
Date of Test		Jan. 13~27, 2021	
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Report No.: 18220WC10007502

1. General Information

1.1. Client Information

Applicant	: Dongguan Tyjin Electronics Co., Ltd.
Address	Room 101, Building 2, No.7 Keyan Road Wulian Village, Fenggang Town Dongguan, Guangdong China 523690
Manufacturer	: Dongguan Tyjin Electronics Co., Ltd.
Address	Room 101, Building 2, No.7 Keyan Road Wulian Village, Fenggang Town Dongguan,Guangdong China 523690
Factory	: Dongguan Tyjin Electronics Co., Ltd.
Address	Room 101, Building 2, No.7 Keyan Road Wulian Village, Fenggang Town Dongguan,Guangdong China 523690

1.2. Description of Device (EUT)

Product Name	:	Wireless Charging Pad	otek Anbotek Anbotek Anbotek Anbotek
Model No.	:	C-150, 2MNQI0728 (Note: All samples are th "C-150" for test only.)	e same except the appearance, so we prepare
Trade Mark	:	N.A. Anborek	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for adapt	ter 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
Description	iption : Antenna		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

Shenzhen Anbotek Compliance Laboratory Limited

Code: AB-RF-05-a



Report No.: 18220WC10007502 FCC ID: 2AQRPTJC150WC Page 5 of 14

1.3. Auxiliary Equipment Used During Test

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P	N/A	:	Am	P.	posek	Anbo	Anborek	Anbore	Am

1.4. Test Equipment List

Item	Equipment	Equipment Manufacturer I		Serial No.	Last Cal.	Cal. Interval	
nbote.	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	3 Year	
AT2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2020	3 Year	
3 1/2	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2020	3 Year	

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizon	tal)	ote. Aur	abotek A	botek
		Ur = 3.8 dB (Vertical)	otek	iupo, tek	abotek	Aupoter
		And botek	Anbotek	Anbo. otek	Anbotek	Anbore
Conduction Uncertainty	:	Uc = 3.4 dB	Anboren	Aupo	Napotek	Anbor



FCC ID: 2AQRPTJC150WC Report No.: 18220WC10007502 Page 6 of 14

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, 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

Code: AB-RF-05-a



Report No.: 18220WC10007502 FCC ID: 2AQRPTJC150WC Page 7 of 14

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
- 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/cm ²)	Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	e-
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	I	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	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).

Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05-a

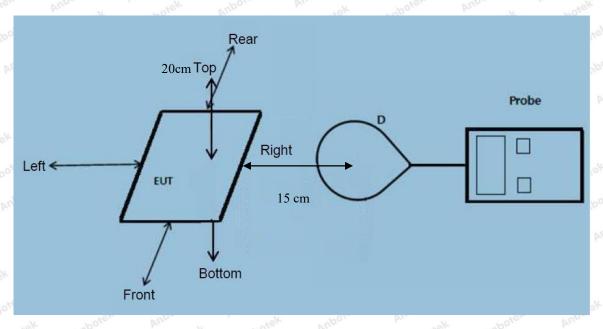


^{*=}Plane-wave equivalent power density



Report No.: 18220WC10007502 FCC ID: 2AQRPTJC150WC Page 8 of 14

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.

Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05-a





Report No.: 18220WC10007502 FCC ID: 2AQRPTJC150WC Page 9 of 14

- 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 Charging Pad
- 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



Report No.: 18220WC10007502 FCC ID: 2AQRPTJC150WC Page 10 of 14

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

Temperature:	23.2° 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

750	Jan J	- Van	1000	Par.		70.	300	- Contract
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
be.	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	Anbote	B Ambu	С	unbote D	AupoE **	(V/m)	(V/m)
Aupor	*6k "Jpo,	ek Aup	Oser Pil	potek	Anbotek	Aupor	k spotek	Anb
1%	110.1~205	0.75	0.05	0.3	0.14	1.09	307	614
	upor Ar	abotek	Aupoten	Anba	Anbo	SK Aut	or by	botek
Anbotek	Anbo.	anbotek	Anbore	YK MUD	atek An	potek	rupo, tek	anbotek
50%	110.1~205	1.15	1.52	0.8	1.57	1.45	307	614
	Aupor	ek vpc	Hek Ani	poter P	notek	Anbotek	Aupo, sek	bi.
ek Anbo	lek Aupo.	rek h.	botek	Anbore.	Ann	Anbote	Anbo.	ek h
99%	110.1~205	2.66	2.69	2.86	2.26	2.88	307	614
	Anbotek	Aupora *ek	Air.	Aupoter	k Anba	orek p	abotek An	oo.
And hotek	Anborek	Pupo,	Anbore .	k Aupo	le. Vu	hotek	Anbotek	Aupo.
Stand-by	110.1~205	0.15	0.24	otek 1.1 A	0.59	0.3	307	614
	ek Anbore	k Anbo	*ek bi.	abotek	Aupolen	Anto	Anbotek	Anbo



Report No.: 18220WC10007502 FCC ID: 2AQRPTJC150WC Page 11 of 14

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

	J	200		· ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			0.00	777
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
200	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	A	otek B	hote C	Aupa Dek	Entek	(A/m)	(A/m)
iek Ant	otek Anbe	*ek	nbotek	Anbore	Ann	Anbote	Aupo	ick bu
1%	110.1~205	0.72	0.56	0.28	0.29	0.03	0.815	1.63
botek	Anbotek	Anbore	Air	Anbore	K Anb	work p	nbotek Ar	Por
And	Anbotek	Aupo	k vupo	ick Aut	ole N	botek	Anborek	Anbo. ofe
50%	110.1~205	0.39	0.47	0.66	0.24	0.80	0.815	1.63
K Anto	stek Anbo	ek Aup	o, b	abotek	Anbote.	Andhorek	Anbotek	Anb
Arr.	hotek Ar	potek F	upo.	Anbotek	Anbore	ok No	rek Anbot	S.r.
99%	110.1~205	0.25	0.21	0.53	0.79	0.43	0.815	1.63
Aupoten	Anbootek	Anbotek	Anboro	ek up	otek Ar	poter A	lo cotek	Anbotek
Anboren	Anbotek	Anbotel	Aupo	*8k	botek	Anbotes	Anb	Anborel
Stand-by	110.1~205	0.55	0.80	0.08	0.66	0.02	0.815	1.63
K Anbo	YOU ANDO	otek a	obotek	Anbore	Al. abotek	Anbotek	Anb.	N. D.

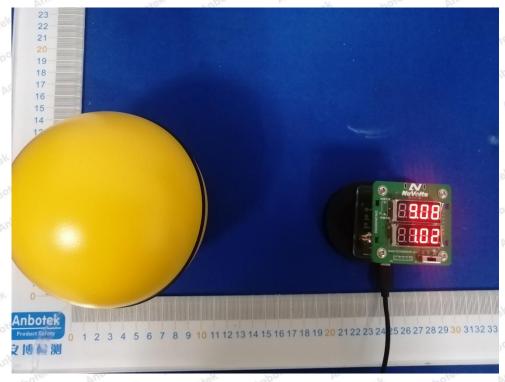
Remark: All the conditions have been tested. It is found that Wireless Output(10W) work simultaneously is the worst mode, and the data in the report only reflects the worst mode.

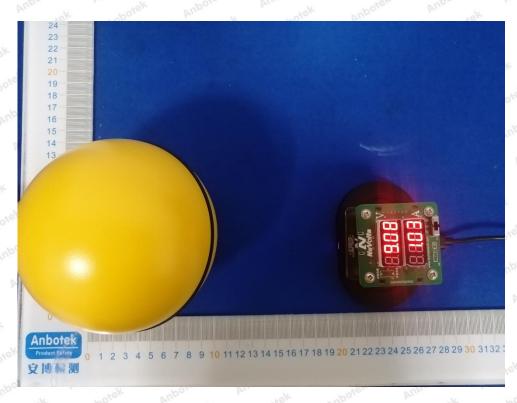


Report No.: 18220WC10007502 FCC ID: 2AQRPTJC150WC Page 12 of 14

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement

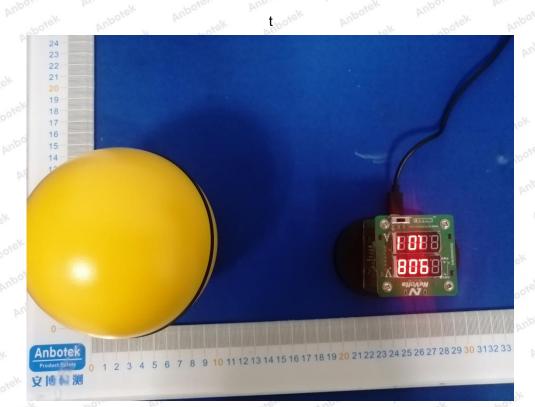




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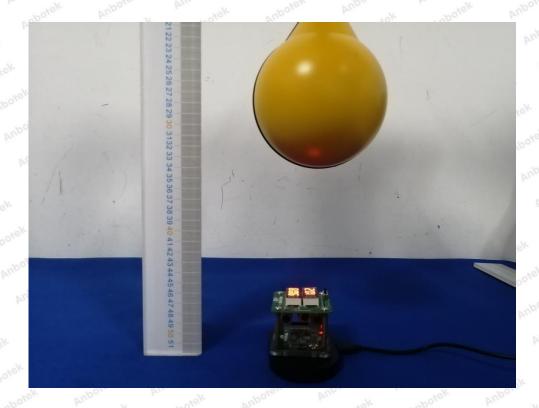
Report No.: 18220WC10007502 FCC ID: 2AQRPTJC150WC Page 13 of 14







Report No.: 18220WC10007502 FCC ID: 2AQRPTJC150WC Page 14 of 14



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