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FCC TEST REPORT

Client Name : Shenzhen Lingyi Innovation Tech Co., Ltd.

Address 12 F, Block C, Central Avenue Building, Xixiang BLVD

West, Baoan District, Shenzhen, China

Product Name : Wireless charger

Date : Aug. 30, 2019

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Shenzhen Lingyi Innovation Tech Co., Ltd.

Manufacturer : Shenzhen Lingyi Innovation Tech Co., Ltd.

Product Name : Wireless charger

Model No. : ATR1003, AE1001, AE1001B, ATR1003B

Trade Mark : N.A.

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

Wireless Output: 5W, 7.5W, 10W

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	Aug. 12, 2019
Date of Test	Aug. 12~29, 2019
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Prepared Ry	Anbore Andrek Anborek Anbo
An John Marie Mari	(Engineer / Dolly Mo)
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Reviewer	And Anbotek Anbotek Anb
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Approved & Authorized Signer	otek Anbotes (Anborsk Anborsk
Anbore	(Manager / Sally Zhang)
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Shenzhen Anbotek Compliance Laboratory Limited





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1. General Information

1.1. Client Information

Applicant	: Shenzhen Lingyi Innovation Tech Co., Ltd.	Aupo
тррпости	- Sherizhen Lingyi innovation rech Co., Ltd.	Aupo
Address	: 12 F, Block C, Central Avenue Building, Xixiang BLVD West, Baoan Shenzhen, China	District,
Manufacturer	Shenzhen Lingyi Innovation Tech Co., Ltd.	hotek
Address	12 F, Block C, Central Avenue Building, Xixiang BLVD West, Baoan Shenzhen, China	District,
Factory	Shenzhen Lingyi Innovation Tech Co., Ltd.	V Vupo,
Address	: 12 F, Block C, Central Avenue Building, Xixiang BLVD West, Baoan Shenzhen, China	District,

1.2. Description of Device (EUT)

Product Name	:	Wireless charger	stek Anbotek Anbotek Anbotek Anbotek
Model No.	:	A. Alex	001B, ATR1003B e same except the model name and the "ATR1003" c circuit), so we prepare "ATR1003" for test only.)
Trade Mark	:	N.A.	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for adapt	er Anbotek Anbotek Anbotek Anbote
Test Sample No.	:	1-2-1(Normal Sample), 1	-2-1(Engineering Sample)
		Operation Frequency:	110.1-205KHz
Product		Modulation Type:	FSK Anbotek Anbotek Anbotek
Description	:	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

P	Adapter	:	Model: FC69U
			SN: KX201849002520
			Input: 100-240V ~50-60Hz 0.8A Max
ek			Output: QC: 5V == 3A/ 9V == 3A/ 12V == 2.5A
0			PD: 5V == 3A/ 9V == 3A/ 12V == 2.5A/ 15V == 2A/
0-			12V== 1.5A

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. 24, 2018	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)	botek	Anborek	Anbotek Anbote
		Ur = 3.8 dB (Vertical)	abotek	Anboten	And hotek Ant
		Anbotek Anbo.	Anborek.	Anbore	ak Polek
Conduction Uncertainty	:	Uc = 3.4 dB	h. anbo	lek Aupo	Ans abotek

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, 2018.

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)

		-V. 140"	()	
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (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	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

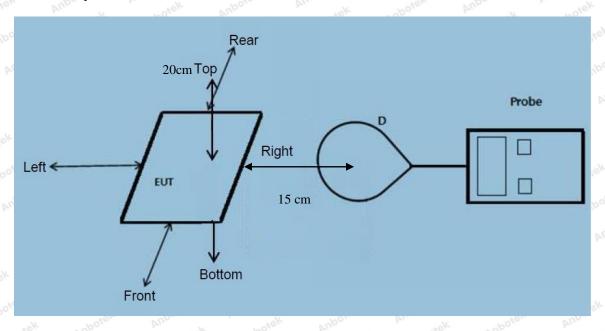
Hotline 400-003-0500 www.anbotek.com

^{*=}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 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 2.4.2



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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

Note: The three coils can only work with one coil at a time, and only the worst mode (middle coil) is recorded in the report.

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	0.35	0.37	0.28	0.41	0.92	307	614
50%	110.1~205	1.54	1.27	1.30	1.22	1.42	307	614
99%	110.1~205	2.26	2.07	2.11	2.30	2.07	307	614
Stand-by	110.1~205	0.42	0.35	0.72	0.42	0.55	307	614



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

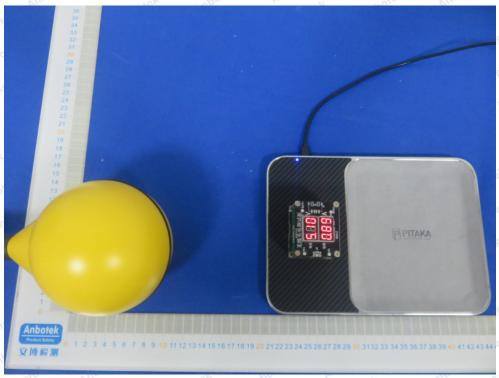
	9.30	0.00		6				Cl.
Potton	Frequency	Test	Test	Test	Test	Test	Reference	Limits
Battery	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	A	otek B	hote C	Aups D	Ansorek	(A/m)	(A/m)
tek Aut	otek Pupe	sek by	nbotek	Anbore	Ann	Anbore	Aupo	lek "
1%	110.1~205	0.045	0.044	0.052	0.037	0.053	0.815	1.63
hotek		Anboro	Allandotek	Anbote	k Anbe	notek p	nbotek Ar	pore
Aur	Anbotek	Aupo,	k npo	lek but	Ole V	botek	Anborek	Anbo. otel
50%	110.1~205	0.21	0.50	0.38	0.39	0.44	0.815	1.63
Anti-		ek Anb	o. A	anbotek	Anbore	Antoholek	Anbotek	Anb
Vy Vun	hotek Ar	potek p	upo otek	Motek	Anboro	ok Pur	iek Anbot	Sk b
99%	110.1~205	0.37	0.52	0.49	0.35	0.50	0.815	1.63
Aupoten		Anbotek	Anboro	ek up	otek Ar	poter A	botek	Anbotek
Anborec	Ann	Anbotel	Vupe	rek po	opotek	Aupore	Am	Anbotek
Stand-by	110.1~205	0.18	0.14	0.25	0.32	0.29	0.815	1.63
ak Anbo		otek .	obotek	Aupor	VI. Potek	Anboren	Anbo	N 25



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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement





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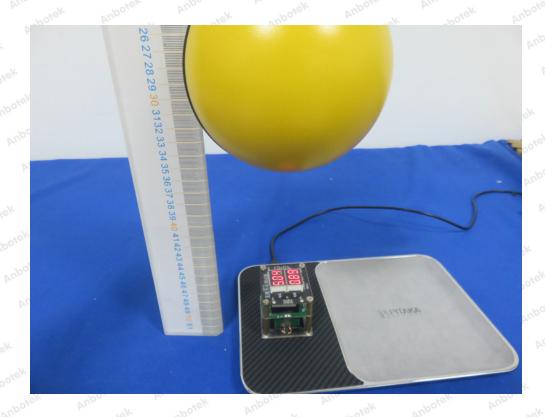




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