

Report No.: 18220WC00029202 FCC ID: 2AONA-WX1910APD Page 1 of 13

# **FCC TEST REPORT**

Client Name : Shenzhen Pilot Technology Co., Ltd

101 A1 Industrial Park, building a 1, No.7, Shankeng

Address : Road, Shanxia community, Pinghu Street, Longgang

District, Shenzhen City, China

Product Name : Power Bank

Date : Apr. 26, 2020

Shenzhen Anbotek Compliance Laboratory Limited
\*Approved\*\*



Report No.: 18220WC00029202 FCC ID: 2AONA-WX1910APD Page 2 of 13

# **Contents**

1. (	General Information	Aribo		19to	nbohe	PLUS	<u>,</u>	4
	1.1. Client Information	Mooter	VUL		hotek	Anbo.	bo	4
	1.2. Description of Device (EUT)	, oo,	ek .	upo,		le sel	oter	2
	1.3. Auxiliary Equipment Used During	Test	-tek	anboten	Anb		upotek.	PÉ
	1.4. Test Equipment List	Viu.		bote	ik Anh	,0,	n. notek	5
	1.5. Measurement Uncertainty	otek	Aupo,	bu.	otek	upoter.	Anu	a\ 5
	1.6. Description of Test Facility	otek	Vupo <sub>te</sub> ,	An		botek	Anbo.	5
2. I	Measurement and Result	Yur.	200	stek	Yupo,	, ote	100	E
	2.1. Requirements	Anbo.	γ	notek	Anbore.	Anv	.eK	
	2.2. Test Setup	Anbore	, p	ur.	abote	e Aup		7
	2.3. Test Procedure	4	otek	Aupo		otek p	nbote	7
	2.4. Test Result		wotek.	Anbore	Vu.	.velk	abotek	7
	2.4.1. Equipment Approval Considerati	ons item	5.b of KI	DB 68010	6 D01 v03	3	, 100 <sup>16</sup>	7
	2.4.2. Environmental evaluation and	exposure	limit acc	cording to	FCC CF	R 47 part	1, 1.130	07(b)
	1.1310	Josek	Anbo	, p	n.	Anboter	Ant	<u>S</u>
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Report No.: 18220WC00029202 FCC ID: 2AONA-WX1910APD Page 3 of 13

# TEST REPORT

Applicant : Shenzhen Pilot Technology Co., Ltd

Manufacturer : Shenzhen Pilot Technology Co., Ltd

Product Name : Power Bank

Model No. : WX1910APD, WX1910CPD

Trade Mark : N.A.

Micro Input: DC 5V,2A /9V,2A USB-C Input: DC 5V, 3A/9V, 2A

Rating(s) : USB-A 1/USB-A 2/USB-C Output: DC 5V, 3A/9V, 2A/12V, 1.5A (with DC

3.7V,10000mAh Battery inside)
Wireless Output: 5W, 7.5W, 10W

Total Output: DC 5V, 3A

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	Apr. 03, 2020
Date of Test	Apr. 03~18, 2020
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Prepared By	Aupotes Jun sok apotek Aupo
Anbottek Anbotek Anbotek	(Engineer / Dolly Mo)
	And Hand of America
Reviewer	this thang
nbotek Anbotek Anbotek Anbotek Anbotek	(Supervisor / Bibo Zhang)
	notes Indichen Andores Andrew
Approved & Authorized Signer	under on Conen Anborra
Hek Anbores Ann	(Manager / Tom Chen)

**Shenzhen Anbotek Compliance Laboratory Limited** 

Code:AB-RF-05-a





Report No.: 18220WC00029202 FCC ID: 2AONA-WX1910APD Page 4 of 13

# 1. General Information

## 1.1. Client Information

Applicant	: Shenzhen Pilot Technology Co., Ltd
Address	101 A1 Industrial Park, building a 1, No.7, Shankeng Road, Shanxia community, Pinghu Street, Longgang District, Shenzhen City, China
Manufacturer	: Shenzhen Pilot Technology Co., Ltd
Address	101 A1 Industrial Park, building a 1, No.7, Shankeng Road, Shanxia community, Pinghu Street, Longgang District, Shenzhen City, China
Factory	: Shenzhen Pilot Technology Co., Ltd
Address	101 A1 Industrial Park, building a 1, No.7, Shankeng Road, Shanxia community, Pinghu Street, Longgang District, Shenzhen City, China

## 1.2. Description of Device (EUT)

Product Name	:	Power Bank						
Model No.	:	WX1910APD, WX1910Cl (Note: All samples are the prepare "WX1910APD" for	e same except the model and appearance, so we					
Trade Mark	i	N.A.	Anbotek Anbotek Anbotek Anbotek					
Test Power Supply	:	AC 120V, 60Hz for adapte	er / DC 3.7V Battery inside					
Test Sample No.	:	1-2-1(Normal Sample), 1-2-1(Engineering Sample)						
	: A	Operation Frequency:	110.1-205KHz					
Product		Modulation Type:	QI potek Anborek Anborek Amborek					
Description		Antenna Type:	Inductive loop coil Antenna					
		Antenna Gain(Peak):	0 dBi Maria Amaria					

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or the User's Manual.

Code: AB-RF-05-a





Report No.: 18220WC00029202 FCC ID: 2AONA-WX1910APD Page 5 of 13

#### 1.3. Auxiliary Equipment Used During Test

Adapter	: Manufacturer: Anker Innovations Limited
	M/N: A2013
V	Input: 100-240V 50-60Hz 0.7A
24	Output: 3.6-6.5V == 3A/ 6.5-9V == 2A/ 9-12V == 1.5A

#### 1.4. Test Equipment List

	100		74.		- 1750			
D)	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	
	1	Magnetic field meter	NARDA	ELT-400	423623	Dec. 23, 2019	1 Year	
K	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)	Anbore And And thorek
		Ur = 3.8 dB (Vertical)	ek Anbore Air
8		nbotek Anbotes Anb hotek An	botek Anbo, tek Anb
Conduction Uncertainty	:	Uc = 3.4 dB	Amborek Ambo otek

### 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

Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05-a





Report No.: 18220WC00029202 FCC ID: 2AONA-WX1910APD Page 6 of 13

### 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/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 <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	I	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 <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	1	1	f/1500	30
1500-100,000	1	I	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

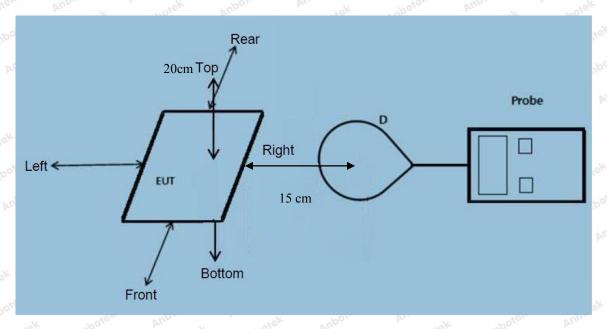
Hotline 400-003-0500 www.anbotek.com

<sup>\*=</sup>Plane-wave equivalent power density



Report No.: 18220WC00029202 FCC ID: 2AONA-WX1910APD Page 7 of 13

#### 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.: 18220WC00029202 FCC ID: 2AONA-WX1910APD Page 8 of 13

- 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 Power Bank
- 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

Code: AB-RF-05-a



Report No.: 18220WC00029202 FCC ID: 2AONA-WX1910APD Page 9 of 13

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:	DC 3.7V Battery inside

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)
notek p	nbotek Ar	po tek	nbotek	Anbore	r Vun	ek Aup	otek Anbo	dek
1%	110.1~205	0.40	0.37	0.24	0.45	0.86	307	614
	Anborek	Aupo,	, abot	ek Anb	ye, r	worek.	Anbotek	Anbo. rel
Ann	Anbotek	Aupo	tek vu	potek p	upote	Vur Potek	Anbotek	Anbo
50%	110.1~205	1.42	1.31	1.29	1.32	1.50	307	614
	potek An	otek P	hbo. rek	Ar. anbotek	Anbote	K And	nek Anbot	sk b
ole V	hotek	Aupotek	Aupo	Morek	Anbor	Dr.	hotek An	otek
99%	110.1~205	2.23	2.16	2.17	2.24	2.11	307	614
	Anbahatek	Anbotek	Anbo.	TOK DI.	botek	Aupolein	Andhorek	Anbotek
Anbore	ak note	k Anbo	iek Wur	o tek	nbotek	Anbore	Vur Polek	Anbo
Stand-by	110.1~205	0.45	0.38	0.72	0.47	0.54	307	614
	poter. Vur	atek	nbojek	Aupo,	by.	k Anbo	le, Vup	riek



Report No.: 18220WC00029202 FCC ID: 2AONA-WX1910APD Page 10 of 13

#### H-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 (A/m)	Limits Test (A/m)
ek Ant	otek Mupe	otek A.	nbotek	Anbore	Ann	Anbote	Aupo.	lek by
1%	110.1~205	0.043	0.047	0.054	0.046	0.053	0.815	1.63
hotek	Anbotek	Anbo	nbotek	Anbore	PLU.	notek p	hbotek Ar	loc.
	Anborek	Anbo	k nho	lek Vup	Of P	botek	Anborek	Aupo
50%	110.1~205	0.29	0.51	0.33	0.38	0.45	0.815	1.63
Y YUN	otek Anbo	ek Anb	alok h	*abotek	Anbore	And	Anbotek	Anl
	hotek Ar	botek p	iupo,	Motek	Anbore	Vy Vu	rek Anbot	Sk
99%	110.1~205	0.34	0.50	0.51	0.35	0.52	0.815	1.63
	Antotek	Anbotek	Yupo,	ek ab	stek Ar	pote, v	hotek	anbotek
Aupoten	Anumotek	Anbotel	Aupo.	rek by	obotek	Aupote	And	Anbore
Stand-by	110.1~205	0.22	0.16	0.24	0.37	0.38	0.815	1.63
	ter Anbo	tek	botek	Aupor	bi.	Anboten	Amba	<i>y</i> -

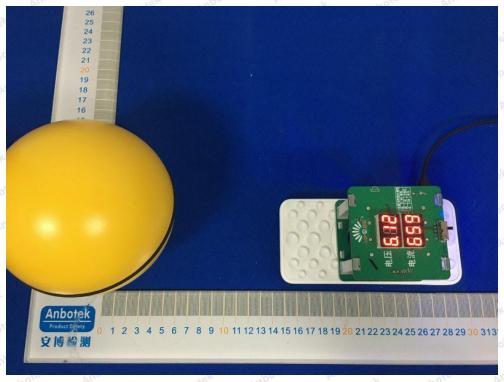
Remake: 5W/ 7.5W/ 10W All modes have been tested. This report only show the test result of the worst case(Full load 10W).



Report No.: 18220WC00029202 FCC ID: 2AONA-WX1910APD Page 11 of 13

# **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Photo of MPE Measurement

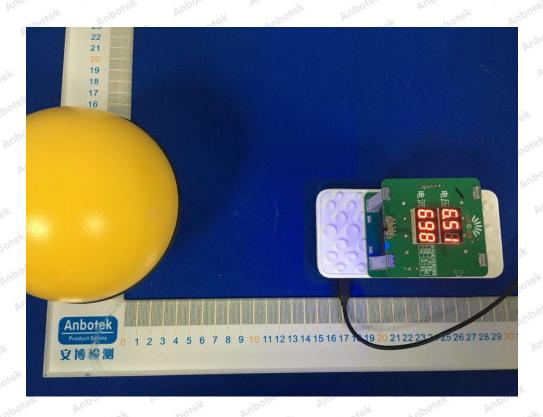


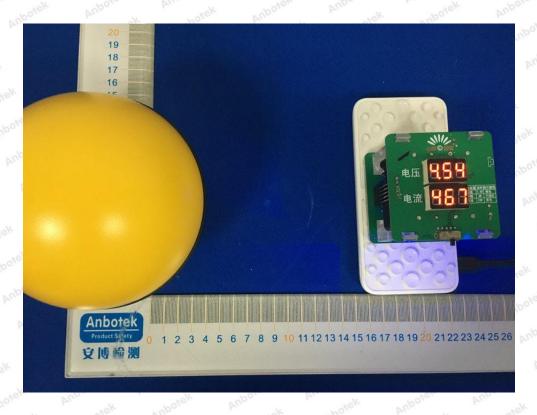


#### **Shenzhen Anbotek Compliance Laboratory Limited**



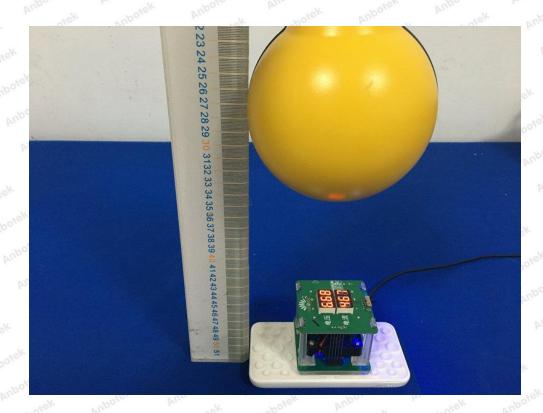
Report No.: 18220WC00029202 FCC ID: 2AONA-WX1910APD Page 12 of 13







Report No.: 18220WC00029202 FCC ID: 2AONA-WX1910APD Page 13 of 13



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