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FCC TEST REPORT

Client Name : Fab-chain Service Co.,Ltd.

5th Floor, Building A, and 4th Floor, Building B,

Address : ChuangJian industrial Park, ShiYan Yingrenshi, BaoAn

District, Shenzhen, Guangdong, China

Product Name : Wireless Power Bank

Date : Oct. 22, 2019

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Fab-chain Service Co.,Ltd.

Manufacturer : Fab-chain Service Co.,Ltd.

Product Name : Wireless Power Bank

Model No. : D215C, MATT40011

Trade Mark : N.A.

Capacity: DC 3.7V, 10000mAh (37Wh)

Input: Type-C: DC 5V, 2A

Rating(s) : Output: USB 1: DC 5V, 1A; USB 2: DC 5V, 2.4A

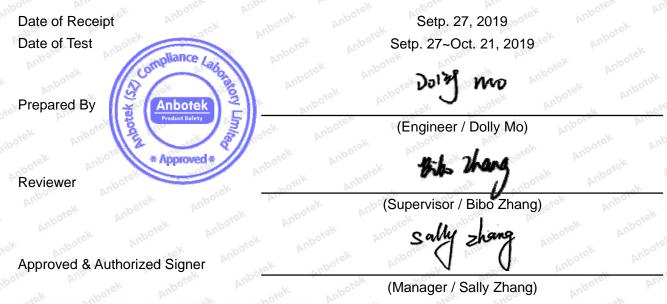
Total output: DC 5V, 2.4A MAX Wireless output: DC 5V, 1A (5W)

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.



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1. General Information

1.1. Client Information

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Applicant	Fab-chain Service Co.,Ltd.
Address	5th Floor, Building A, and 4th Floor, Building B, ChuangJian industrial Park, ShiYan Yingrenshi, BaoAn District, Shenzhen, Guangdong, China
Manufacturer	Fab-chain Service Co.,Ltd.
Address	5th Floor, Building A, and 4th Floor, Building B, ChuangJian industrial Park, ShiYan Yingrenshi, BaoAn District, Shenzhen, Guangdong, China
Factory	Fab-chain Service Co.,Ltd.
Address	5th Floor, Building A, and 4th Floor, Building B, ChuangJian industrial Park, ShiYan Yingrenshi, BaoAn District, Shenzhen, Guangdong, China

1.2. Description of Device (EUT)

Product Name	:	Wireless Power Bank	
Model No.	:	D215C, MATT40011 (Note: All samples are th "D215C" for test only.)	e same except the model name, so we prepare
Trade Mark	:	N.A.	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for adapt	er Anbotek Anbote Anbotek Anbote
Test Sample No.	:	1-2-1(Normal Sample), 1	-2-1(Engineering Sample)
		Operation Frequency:	110.1-205KHz
Product		Modulation Type:	QI Anbotek Anbotek Anbotek
Description	•	Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi

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or the User's Manual.





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1.3. Auxiliary Equipment Used During Test

Adapter	: Manufacturer: Anker Innovations Limited	: Manufacturer: Anker Innovations Limited						
	M/N: A2013 Input: 100-240V 50-60Hz 0.7A	otek Anbotek Anbotek						
	Output: 3.6-6.5V == 3A/ 6.5-9V == 2A/	9-12V== 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)	tek Anbotes Ans
		Ur = 3.8 dB (Vertical)	
		mbotek Anbote, And botek	Anbotek Anbo. atek Anb
Conduction Uncertainty	:	Uc = 3.4 dB	Anbotek Anbo 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 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)

24.	760	-16 040	500	
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	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	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).

Code: AB-RF-05-a

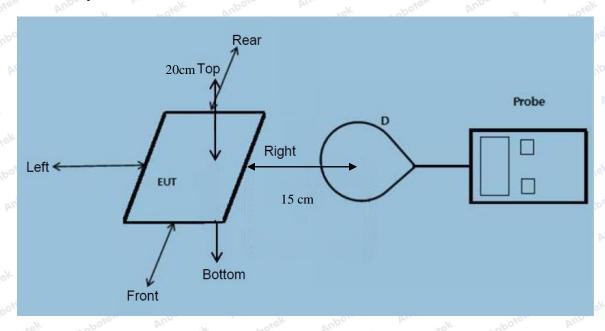
400-003-0500 ww.anbotek.com

⁼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 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 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



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2.4.2. Environmental evaluation and exposure limit according to FCC CFR 47 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

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	upotek Ar	orek .	Anbotek	Anbore	Y Pur	ek Ant	oten Anbo	otek
1%	110.1~205	0.39	0.35	0.27	0.48	0.92	307	614
	Anbotek	Anbo. Tel	. An abot	ek Anb	ore. An	hotek	Anbotek	Anbo.
Annahotel	Anbotek	Anbo	tek vu	potek p	upore	Pur	Anborek	Anbo
50%	110.1~205	1.50	1.33	1.29	1.34	1.57	307	614
	hotek Ani	otek N	ipo.	A. Anborek	Anbore.	Y Ann	rek Anbot	8 P
Joje A	hotek	Aupotek	Aupo	Anborek	Anboy	Di.	hotek An	otek
99%	110.1~205	2.29	2.11	2.13	2.25	2.09	307	614
	Anu	Anbotek	Aupo.	rek A.	botek	Anbore.	Ann	Anbotek
Aupoten	ok hose	k Anbo	lek but	o tek	Motek	Aupole	Pur Potek	Anbo
Stand-by	110.1~205	0.41	0.35	0.72	0.48	0.56	307	614
	Pote, Vur	-otek	Aupotek	Aupo,	abote	k Anbo	Le. VUL	otek

Code: AB-RF-05-a

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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 Yupe	rek	nbotek	Anbore	Vur Posel	Anbore	. Aupo.	lek h
1%	110.1~205	0.044	0.045	0.057	0.042	0.060	0.815	1.63
	Anbotek	Aupo, *ek	Ar. abotek	Anbore	K And	worek p	hbotek Ar	100,
Aug	Anborek	Aupo,	k 2000	ick Ant	Ofer A	hotek	Anborek	Vupo.
50%	110.1~205	0.23	0.52	0.38	0.39	0.41	0.815	1.63
	otek Anbo	ek Aup	o. K	anbotek	Anbore.	Andhorek	Anbotek	An
Y Ann	hotek Ar	porek I	upo.	Anbotek .	Aupore	VK No	rek Anbot	S _K
99%	110.1~205	0.40	0.56	0.53	0.35	0.58	0.815	1.63
	Andhotek	Anbotek	Anbo.	ek nb	stek Ar	pote. A	notek.	Anbotek
Anbore	Ame	Anbote	Vupo.	rek pr	obotek	Aupoter	Vu. Polsk	Anbot
Stand-by	110.1~205	0.22	0.14	0.29	0.36	0.32	0.815	1.63
	Ver. Vup.	tek	obotek	Anbo.	bu. Potek	Anboren	VIUD OF	K.

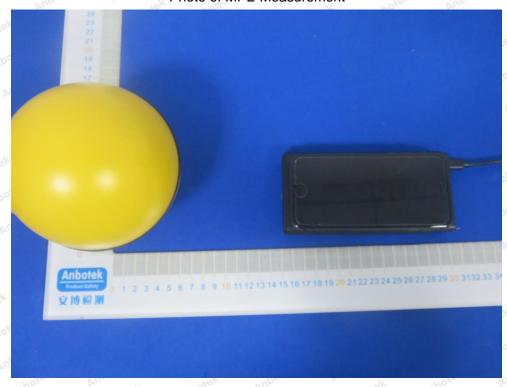
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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement





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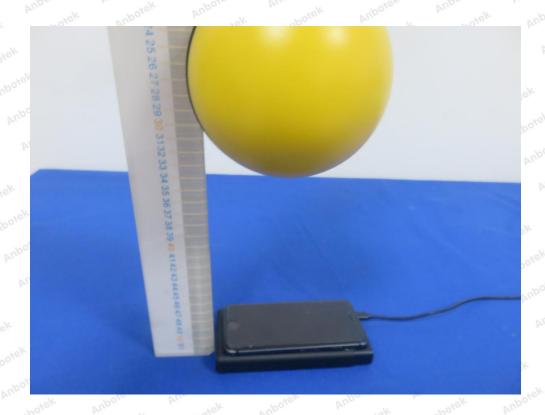




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