

FCC Test Report

Applicant : RADIOSHACK WORLDWIDE CORP.

AFRA building Ave. Samuel Lewis and 54 th

Address : Street Panama City Postal BOX /P.O Box

0816-01085 Panama 5

Product Name : POWER BANK

Report Date : Jan. 30, 2024









Contents

1. General Information		(1)		',''' I
1.1. Client Information	uotok.	supore.	Vur.	,botek M
1.2. Description of Device (EUT)	Ann	, wotek	Vupo,	
1.3. Auxiliary Equipment Used During Test				An
1.4. Test Equipment List	Pupo _{te} .	Vur.	y y y y	Anbo
1.5. Measurement Uncertainty	201,,,,,,,,,,,,,,,,,	yek Anbo		ek popote (
1.6. Description of Test Facility	····	laa ^{Ast} on	ose, Ann	900,
2. Measurement and Result	oole V		Mhotek An	100
2.1. Requirements	botek	Anbo	n otok	Anbore An
2.2. Test Setup	r. wotek	Anbore	Arra	botok
2.3. Test Procedure	Vu. Hok	Mapotek	Anbe	gatek g
2.4. Test Result	Anbe		k Aupore	10
APPENDIX I TEST SETUP PHOTOGRAPH	k Anbo	All.	⁴ 0day Yay	1
APPENDIX II EXTERNAL PHOTOGRAPH	gre ^N	poter And		otek
APPENDIX III INTERNAL PHOTOGRAPH	,- 	-otek	upo, Ar,	





TEST REPORT

Applicant : RADIOSHACK WORLDWIDE CORP.

Manufacturer : Fab-Chain Service Co.,Ltd.

Product Name : POWER BANK

Test Model No. : 2309273

Reference Model No. : N/A

Trade Mark : radioshack

Input: Type-C: PD-18W(5V== 3A,9V== 2A,12V== 1.5A)

Output: Type-C: PD-20W(5V== 3A, 9V== 2.22A,12V== 1.67A)

Rating(s) : USB QC3.0(5V-6.5V --- 3A, 6.5V-9V --- 2A, 9V-12V --- 1.5A)

Total Output: 5V == 3A

Battery: DC 3.7V, 10000mAh,

Wireless Output: 10W

Test Standard(s) : FCC Part 1.1310, 1.1307(b)

Test Method(s) : KDB680106 D01 RF Exposure Wireless Charging Apps v04

October 25, 2023 TCB Workshop

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 & TCB Workshop, October 25, 2023 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 Dec. 05, 2023

Date of Test Dec. 05~18, 2023

Prepared By

(Ella Liang)

Approved & Authorized Signer

(Edward Pan)







Revision History

	Report Version	Description	Issued Date			
	R00	Original Issue.	Jan. 30, 2024			
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1. General Information

1.1. Client Information

Applicant	: RADIOS	HACK WORLDWIDE CORP.
Address		uilding Ave. Samuel Lewis and 54 th Street Panama City Postal BOX 0816-01085 Panama 5
Manufacturer	: Fab-Cha	in Service Co.,Ltd.
Address		r, Building A, ChuangJian industrial Park, Yingrenshi, ShiYan BaoAn, en, GuangDong,P.R.China
Factory	: GD Fab-	chain Service Co.,Ltd.
Address		, building 3, No. 31, huifeng west 2nd Road,zhongkai High tech uizhou City, Guangdong, China

1.2. Description of Device (EUT)

Los -		D. TAY
Product Name	:	POWER BANK
Test Model No.	:	2309273
Reference Model No.	:	N/A Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	radioshack Jack Andrew Andrew Andrew Andrew
Test Power Supply	:	AC 120V, 60Hz for adapter/ DC 3.7V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	110.1-205kHz
Modulation Type	:	ASK Anborek Anborek Anborek Anborek Anborek
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0 dBi (Provided by customer)
Remark: 1) All of the F	RF	specification are provided by customer. 2) For a more detailed features

description, please refer to the manufacturer's specifications or the User's Manual.

Shenzhen Anbotek Compliance Laboratory Limited





Report No.: 18220WC30258402 FCC ID: 2BDXE-2309273 Page 6 of 15

1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
Mobile Phone	iPhone 13
Adapter	Model: MDY-11-EX
Anbore And Otek	Input: 100-240V-0.7A, 50-60Hz
tek Anbotek Anbo	USB-A output: 5V3A, 9V3A, 12V2.25A, 20V1.35A, 11V3A

1.4. Test Equipment List

	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	Anbo	Electric and	Anbote An	sek abo	lek Aupo.	ok hojek	Anboyer
	1 📈	Magnetic field	NARDA	EHP-200A	180ZX10202	Oct. 16, 2023	1 Year
20	14	Analyzer	k hotek	Anbote. Ar	tek.	nbotek Anbo	-/r br.

1.5. Measurement Uncertainty

Parameter	Uncertainty				
Magnetic Field Reading(A/m)	+/-0.04282(A/m)	Anbotek	Anbore	Arrabotek	Aupotek
Electric Field Reading(V/m)	+/-0.03679(V/m)	Anborek	Anbore	Ar. abotek	Anbo

1.6. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 434132

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. 434132.

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.

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.







2. Measurement and Result

2.1. Requirements

According to the item 5.b) of KDB 680106 D01v04:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- (1) The power transfer frequency is below 1 MHz.
- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
- (3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)
- (4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).
- (5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.
- (6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

Limits For Maximum Permissible Exposure (MPE)







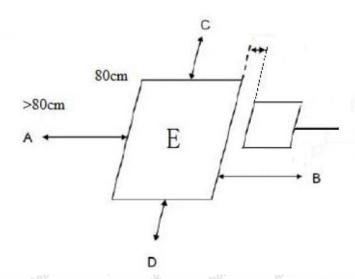
Report No.: 18220WC30258402 FCC ID: 2BDXE-2309273 Page 8 of 15

·	U. D.	101	. V	1-01
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	ti.
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	Population/Uncontrolle	ed Exposure	ę-
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)

2.2. Test Setup



Note:

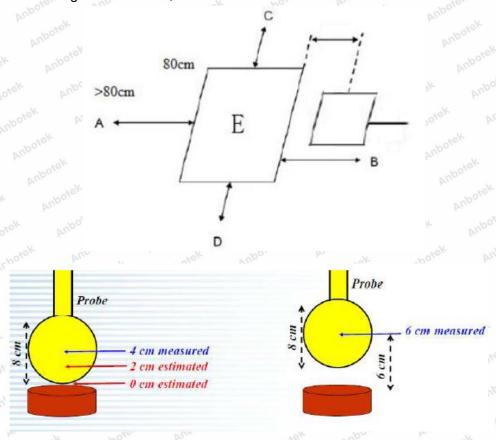


^{*=}Plane-wave equivalent power density



Report No.: 18220WC30258402 FCC ID: 2BDXE-2309273 Page 9 of 15

H-field data are taken along all three axes the device, from 0 cm to 20 cm, in 2 cm minimum increment measured from the edge of the device, with one axis coincident with the axis of the main coil.



Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT. (probe radius is 4.75cm)

2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance (from 0 cm to 20 cm, in 2 cm minimum increment) which is between the edge/top surface of the charger and the edge of probe. and the measurement probe was placed at required test distance 15cm and 20cm 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** side.)
- 4) The EUT was measured according to the dictates of TCB Workshop, October 25, 2023 and KDB 680106 D01 v04.

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 v04.
- (1) The power transfer frequency is below 1 MHz.
- The device operate in the frequency range 110.1-205kHz.
- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
 - The maximum output power of the primary coil is 10W.
- (3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)
- The surfaces of the transmitter and client device enclosures is in physical contact.
- (4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).
 - The EUT is a portable exposure conditions
- (5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.
 - Conducted the measurement with the required distance and the test results please refer to the section 2.4.
- (6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.
 - The EUT is one radiating structure.







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

Temperature:	25.8°C	Relative Humidity:	51 %
Dragouro	101 kDe votek	Toot Voltage	AC 120V, 60Hz for adapter/
Pressure:	101 kPa	Test Voltage:	DC 3.7V battery inside

Between the edge/top surface of the charger and the edge of probe

E-Field St		in the eag	crtop suri	acc or the	o charger	and the c	age or pr	ODC	6
Test distance	Battery power	Test Position A	Test Positio n B	Test Positio n C	Test Positio n D	Test Positio n E	Test Positio n F	Referen ce Limit (V/m)	Limits Test (V/m)
V.	rek anbo	Her Ar	EUT Base	e support i	nput + Sta	andby	atek	Aupoten	Aupo
otek Anb.	1%	0.387	0.479	0.406	0.404	0.512	0.389	307	614
0cm	50%	1.414	1.892	1.351	1.510	1.668	1.415	307	614
Aupotek ***	99%	2.470	2.922	2.527	2.462	2.962	2.473	307	614
P'Upo,	EUT Base s	upport inpu	ıt + iPhon	e 13 opera	ating (10%	electric q	uantity wo	rst case)	Anbore
k Anbo	1%	0.339	0.430	0.342	0.328	0.439	0.337	307	614
0,2,4cm	50%	1.386	1.830	1.353	1.500	1.612	1.391	307	614
inpo,	99%	2.390	2.855	2.433	2.395	2.884	2.388	307	614
Ans	1%	0.330	0.418	0.327	0.312	0.428	0.325	307	614
6cm	50%	1.335	1.774	1.305	1.445	1.580	1.331	307	614
otek An	99%	2.288	2.745	2.291	2.266	2.761	2.286	307	614
nbotek	1%	0.277	0.394	0.296	0.271	0.377	0.276	307	614
8cm	50%	1.345	1.404	1.294	1.324	1.453	1.358	307	614
Aupole	99%	2.283	2.742	2.293	2.272	2.739	2.280	307	614
ak Anbo.	1%	0.240	0.386	0.243	0.227	0.346	0.237	307	614
10cm	50%	1.278	1.387	1.278	1.310	1.503	1.281	307	614
potek.	99%	2.265	2.724	2.265	2.259	2.714	2.268	307 📈	614
Annabotek	1%	0.228	0.345	0.230	0.270	0.324	0.232	307	614
12cm	50%	1.252	1.382	1.261	1.290	1.420	1.275	307	614
ek Anb	99%	2.266	2.690	2.197	2.248	2.686	2.369	307	614

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E-Field St	trength								
Test distance	Battery power	Test Position A	Test Positio n B	Test Positio n C	Test Positio n D	Test Positio n E	Test Positio n F	Referen ce Limit (V/m)	Limits Test (V/m)
ok And	, 1% ₁₀	0.235	0.339	0.226	0.207	0.339	0.265	307	614
14cm	50%	1.251	1.365	1.256	1.257	1.416	1.267	307	614
	99%	2.249	2.684	2.186	2.292	2.672	2.282	307	614
Anbotek	1%	0.197	0.304	0.243	0.195	0.311	0.204	307	614
16cm	50%	1.227	1.407	1.284	1.244	1.413	1.232	307	614
	99%	2.244	2.692	2.169	2.220	2.661	2.257	307	614
otek b	1%	0.168	0.310	0.204	0.180	0.313	0.172	307	614
18cm	50%	1.219	1.316	1.206	1.217	1.415	1.226	307	614
Anbotek	99%	2.214	2.657	2.197	2.191	2.682	2.217	307	614
k Anbo	1%	0.156	0.292	0.182	0.169	0.270	0.151	307	614
20cm	50%	1.220	1.294	1.208	1.218	1.413	1.227	307	614
	99%	2.187	2.635	2.184	2.161	2.699	2.193	307	614





'm Ye	ool Ar	10	-0,6/	Aupo	No.	Yas	abore	Ville	M
H-Field S	trength								
Test distanc e	Battery power	Test Positio n A	Test Positio n B	Test Positio n C	Test Positio n D	Test Positio n E	Test Positio n F	Referenc e Limit (A/m)	Limits Test (A/m)
k out	otek An	pote.	EUT Ba	se suppor	t input + S	standby	Anbotek.	Aupole	ok Vu
otek	1%	0.045	0.064	0.067	0.055	0.063	0.045	0.815	1.63
0cm	50%	0.384	0.460	0.369	0.344	0.579	0.390	0.815	1.63
Anbotek	99%	0.455	0.634	0.527	0.329	0.344	0.457	0.815	1.63
Anbote	EUT Base	support in	out + iPho	ne 13 ope	rating (10	% electric	quantity	worst case)	Ant
k Aup	1%	0.125	0.145	0.149	0.134	0.153	0.125	0.815	1.63
0,2,4cm	50%	0.409	0.479	0.396	0.394	0.607	0.406	0.815	1.63
inbote.	99%	0.495	0.674	0.578	0.384	0.384	0.494	0.815	1.63
Vupo, Potel	1%	0.123	0.142	0.143	0.131	0.138	0.122	0.815	1.63
6cm	50%	0.364	0.438	0.335	0.358	0.565	0.368	0.815	1.63
itek A	99%	0.424	0.670	0.498	0.370	0.367	0.478	0.815	1.63
hotek	1%	0.119	0.137	0.135	0.126	0.133	0.119	0.815	1.63
8cm	50%	0.357	0.394	0.390	0.343	0.553	0.357	0.815	1.63
Anbotek	99%	0.437	0.623	0.443	0.344	0.367	0.458	0.815	1.63
Anbo	1%	0.112	0.130	0.128	0.119	0.126	0.112	0.815	1.63
10cm	50%	0.332	0.388	0.306	0.337	0.547	0.332	0.815	1.63
100ter	99%	0.394	0.547	0.434	0.337	0.346	0.357	0.815	1.63
Aupor Potek	1%	0.102	0.121	0.120	0.109	0.118	0.102	0.815	1.63
12cm	50%	0.326	0.374	0.294	0.325	0.526	0.327	0.815	1.63
ak And	99%	0.365	0.553	0.436	0.302	0.292	0.342	0.815	1.63





- Ya.	100 h	- \/	1-0,10	0.00		10V	200.	15.	M
H-Field S	trength								
Test distanc e	Battery power	Test Positio n A	Test Positio n B	Test Positio n C	Test Positio n D	Test Positio n E	Test Positio n F	Referenc e Limit (A/m)	Limits Test (A/m)
Anbor	1%	0.096	0.115	0.114	0.103	0.140	0.097	0.815	1.63
14cm	50%	0.296	0.385	0.281	0.305	0.546	0.295	0.815	1.63
	99%	0.336	0.559	0.396	0.304	0.296	0.335	0.815	1.63
Anbotek	1%	0.094	0.113	0.136	0.100	0.109	0.095	0.815	1.63
16cm	50%	0.259	0.339	0.275	0.291	0.480	0.262	0.815	1.63
	99%	0.345	0.551	0.375	0.271	0.265	0.371	0.815	1.63
orek 1	1%	0.085	0.098	0.096	0.087	0.094	0.088	0.815	1.63
18cm	50%	0.228	0.332	0.241	0.285	0.465	0.234	0.815	1.63
	99%	0.302	0.485	0.360	0.246	0.235	0.304	0.815	1.63
	1%	0.071	0.090	0.095	0.078	0.087	0.071	0.815	1.63
20cm	50%	0.219	0.350	0.229	0.263	0.441	0.248	0.815	1.63
	99%	0.272	0.362	0.354	0.240	0.221	0.270	0.815	1.63

Note: (1) Position E is top side. (2) All the situation (full load, half load and empty load) has been tested, only the worst situation (full load 10W) was recorded in the report. (3) All three axes the device has been tested, only the worst results reported). (4) All positions have been tested, only display photos of Position E and A in the report.





APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph MPE

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please	refer to sepa	rated files Ap	pendix III II	nternal Photo	graph
		Anbotek	Aup.	nd of Report	Anbore

