

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fur Street, Bao'an District, Shenzhen, China

Report Reference No	CTA25011300302
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Date of issue	Feb. 05, 2025
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Applicant's name:	SM TEK GROUP INC
Address	132 32ND ST STE #402 BROOKL YN NY 11232
Address: Test specification	
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Shenzhen CTA Testing Technology Co., Ltd. Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

CTA .			
CTATES	oment under Test	: POWER BANK	
			TESTIC
Mode	еі /Туре	: PBW4-BK	GA CTATESTING
Liste	d Models	: PBW4-WH	
G Mode	el difference		tructure and internal of these models a mber and colour is different for these
Appl	icant	: SM TEK GROUP INC	
Addr	ess	: 132 32ND ST STE #402	BROOKL YN NY 11232
Man	ufacturer	: Shenzhen KAFERE Elec	ctric Co.,LTD.
Addr	ess	: Room 301, Dongshan No Street,Baoan District, Sho	9.8 Factory, Gushu community, Xixiang enzhen, China
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### Report No.: CTA25011300302

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# 1 TEST STANDARDS

The tests were performed according to following standards:

680106 D01 Wireless Power Transfer v04: EQUIPMENT AUTHORIZATION OF WIRELESS POWER TRANSFER DEVICES.

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### SUMMARY 2

#### 2.1 **General Remarks**

2 <u>SUMIMARY</u>									
2.1 General Remarks		CTATES							
Date of receipt of test sample		Jan. 13, 2025							
Testing commenced on	:	Jan. 13, 2025							
Testing concluded on	:	Feb. 05, 2025							

#### 2.2 Product Description

Product Name:	POWER BANK
Model/Type reference:	PBW4-BK
Power supply:	DC 3.85V From battery Input USB C: DC 5V 2A, 9V 2A, 12V 1.5A Output USB C: DC 5V 3A, 9V 2.2A, 12V 1.67A Output USB A: DC 5V 3A, 9V 2A, 12V 1.5A Wireless output: 15W
Adapter information (Auxiliary test supplied by test Lab) :	Input: AC 100-240V 50/60Hz Output: DC 5V 2A, 9V 2A, 12V 1.5A
Test samples ID:	CTA250113003-1# (Engineer sample) CTA250113003-2# (Normal sample)
Hardware version:	V1.0
Software version:	V1.0
Operation frequency:	110KHz - 205KHz
Modulation type:	ASK
Antenna type:	Loop coil antenna

## 2.3 Description of the test mode

Equipment under test was operated during the measurement under the following conditions: Charging and communication mode

Test Modes:						
Mode 1	POWER BANK	Cr.	Recorded			
Mode 2	Standby		Pre-tested			

#### Special Accessories 2.4

The following is the EUT test of the auxiliary equipment provided by the laboratory:

(	Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
	iPhone	Apple	iphone 11	/	1	/
	2.5 Modifica		ated to most tosting		TESTIN	

#### **Modifications** 2.5

No modifications were implemented to meet testing criteria.

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#### TEST ENVIRONMENT 3

## 3.1 Address of the test laboratory

## Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

## 3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

## A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement. The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

#### Statement of the measurement uncertainty 3.3

Test	Measurement Uncertainty	Notes
Magnetic field measurement (9kHz~30MHz)	±7.8 %	(1)
Electric field measurements (9kHz~ 30MHz)	±7.8 %	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

#### Equipments Used during the Test 3.4

		approximately the	95% confidence le	vel using a co	verage factor of k	=2.	
	3.4 Equi	pments Used du	iring the Test				CTAT
CTATEST	Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
J V .	Exposure Level Tester	Narda	ELT-400	N-0231	June 24 2024	June 23 2025	
	Magnetic field probe 100cm2	Narda	ELT probe 100cm2	M0675	June 24 2024	June 23 2025	
5			GIA		G	CTATESTIN	

### Shenzhen CTA Testing Technology Co., Ltd.

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Test limit

#### 4.1 Requirement

§1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)	
TATES	(i) Limits for Oc	ccupational/Contro	olled Exposure		
0.3-3.0	614	1.63	*(100)	≪6	
3.0-30			*(900/f2)	<6	TESTING
30-300	61.4	0.163	1.0	<6	TESI
<u> </u>		1	f/300	<6	
1500-100000	/	/ 5		<6	
(ii)	Limits for Gener	al Population/Und	controlled Exposu	re	
0.3-1.34	614	1.63	*(100)	<30	
1.34-30	824/f	2.19/f	*(180/f2)	<30	
30-300	27.5	0.073	0.2	<30	
300-1500	- CIA'	/	f/1500	<30	
1500-100000		/	1.0	<30	
frequency in MH:	Z		CA CIN		

### Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPF)

f = frequency in MHz

\* = Plane-wave equivalent power density

Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure GTA CTATES or cannot exercise control over their exposure.

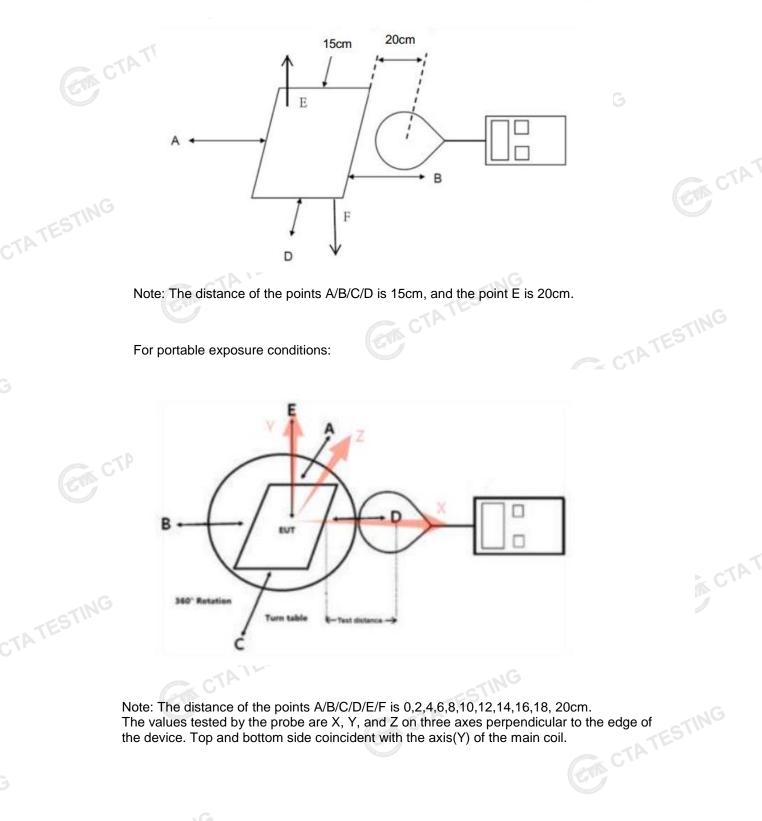
#### 4.2 Test setup

For mobile exposure conditions:

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China



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## 4.3 Test Procedures

## For mobile exposure conditions:

- The RF exposure test was performed in anechoic chamber. a.
- E and H-field measurements should be made with the center of the probe at a distance b.
- of 15 cm surrounding the EUT and 20 cm above the top surface of the primary/client pair.
- The highest emission level was recorded and compared with limit. C.
- The EUT was measured according to the KDB 680106 D01 Wireless Power Transfer d. v04.

## For portable exposure conditions:

- a. The RF exposure test was performed in anechoic chamber.
- Perform H-field measurements for each edge/top surface of the host/client pair at b. every 2 cm, starting from as close as possible out to 20 cm
- The highest emission level was recorded and compared with limit. C.

d. The EUT was measured according to the KDB 680106 D01 Wireless Power Transfer CTATESTING v04.

#### Equipment Approval Considerations of KDB 680106 D01v04 4.4

Requirements of KDB 680106 D01	Description
WPT operating frequency (or frequencies).	The device operate in the frequency range 110KHz~205KHz
Number of radiating structure(Coil)	Only one radiated Coil
Conducted power for each radiating structure.	Maximum15W
§ 2.1091-Mobile or § 2.1093-Portable demonstrated scenarios of operation, including RF exposure compliance information	Mobile and Portable Device
Maximum distance from the WPT transmitter at which, by design, a load can be charged (including slow-charging operations)	Charing with the load directly contact
GA CTATESTING	CTATESTING

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CTATESTING

## 4.5 Test results

### For portable exposure condition:

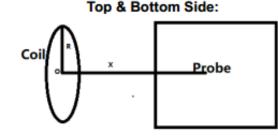
(1). The portable test modes have covered the considerations of the mobile test, only record the test data of the portable conditions in this report.

(2) Operating modes with client device (1 %, 50%, 99% battery status of client device) have been test, only show the data of worst case of 1% battery status of client device. (3) Test performed with all the radiating structures operating at maximum power at the same time.

(4) H-field measurements are taken along all three axes the device from 0cm~20cm in 2cm minimum increment for each edge surface of the host/client pair. If the center of the probe sensing element is more than 5mm from the probe outer edge, the field strengths need to be estimated for the positions that are not reachable.

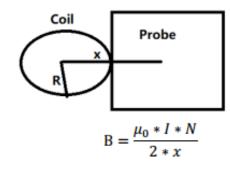
- (5) According to Calibration information and specification about ETL-400 Probe. The Probe ETL-400 Probe's sensitive elements center is located in the probe's center, and the distance from the sensitive elements center to the tip of probe is 6.25cm.
- (6) The actral 0cm, 2cm, 4cm and 6cm field strengths need to be estimated for the positions that are not reachable via numerical calculation.

CTA TESTING (7) Use Biot-Savart formula theory to estimate the strength of the magnetic field that the measuring instrument cannot measure. According to Biot-Savart formula:



$$B = \frac{\mu_0 * I * N * R^2}{2 * (R^2 + x^2)^{3/2}}$$

### Front, left, right & rear Side:



B(Unit: A/m): means H-field value;

 $\mu_0$  is space permeability;  $\mu 0=4\pi^*10^{-7}$ ;

I(Unit:A): A current element passing through a radiated coil;

R(Unit:m): means the Radius of radiated coil, According to provided Antenna specification:

## R=36/2=18mm=0.018m:

Test Distance(Unit:m): The distance from the sensing element of the probe to the edge of the device surface.

x(Unit:m): means the center of the coil to the sensing elements of the probe. (For top & bottom side: x=test distance; For other side: x=test distance+R)

N: Number of turns, according to providing "Antenna specification" files: N=14.

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## 4.5.1 Validation results for the numerical calculation model

a) Measure with probe directed contact(test distace:6.25cm)

b) Using Biot-Savart formula to calculate estimated results at test distace of 8cm and 10 cm; c) measure at test distace of 8 cm and 10cm;

d) Compares the estimated results and measured result, the varation should not be greater than 30%:

Conclusion: The numerical calculation model is valid.

		Test condition: Mode 1																	
	Distance(cm)		Тор			Bottom		Left		Right			Front			back			
		Mea.	Est.	Var.	Mea.	Est.	Var.	Mea.	Est.	Var.	Mea.	Est.	Var.	Mea.	Est.	Var.	Mea.	Est.	Var.
CTATESI	6.25	0.0381	/	/	0.0263	/	1	0.0275	/	/	0.0258	/	/	0.0259	/	/	0.0293	/	/
	8	0.0213	0.0191	- 10.2	0.0137	0.0132	-3.4	0.0218	0.0226	3.7	0.0188	0.0212	12.6	0.0213	0.0213	-0.2	0.0251	0.0241	-4.1
	10	0.0097	0.0101	3.9	0.006	0.007	16.2	0.0200	0.0188	-5.8	0.0188	0.0177	-5.8	0.0161	0.0177	9.6	0.0193	0.0201	4.0
			asured H-fiel tion between									-	17						

### 4.5.1 Final H-Field Emission level with a combination of measured and estimated results.

### Test condition: Mode 1

Distance(or)Image: Negative termsRegister termsLimit(A/m)TypeTopBottomLeftRightFrontback0Estimate15484106890.1180.11700.11110.12571.632Estimate0.50590.34920.05750.05390.05410.06121.634Estimate0.12230.08440.0380.03560.03580.04051.636Estimate0.02130.02440.02660.02770.03021.6310Measured0.00970.0610.02180.01810.01310.01331.6312Measured0.00610.00370.0130.01310.01380.01331.6314Measured0.00360.00250.01410.01380.01400.01471.6316Measured0.00230.00250.01410.01380.01400.01471.63	t condition	Mode 1							mated		
Type   Top   Bottom   Left   Right   Front   back   And     0   Estimate   1.5484   1.0689   0.118   0.1107   0.1111   0.1257   1.63     2   Estimate   0.5059   0.3492   0.0575   0.0539   0.0541   0.0612   1.63     4   Estimate   0.1233   0.0844   0.038   0.0356   0.0358   0.0405   1.63     6   Estimate   0.0246   0.0284   0.0266   0.0267   0.0302   1.63     8   Measured   0.0213   0.0137   0.0218   0.0264   0.0267   0.0302   1.63     10   Measured   0.0097   0.006   0.0200   0.0188   0.0161   0.0193   1.63     12   Measured   0.0061   0.0037   0.0173   0.0131   0.018   0.0153   1.63	Distance(cm)		Result(A/m)						Limit(A/m)		
2   Estimate   0.0097   0.03492   0.0575   0.0539   0.0541   0.0612   1.63     4   Estimate   0.1233   0.0844   0.038   0.0356   0.0358   0.0405   1.63     6   Estimate   0.0426   0.0294   0.0264   0.0267   0.0302   1.63     8   Measured   0.0213   0.0137   0.0218   0.0188   0.0213   0.0133   1.63     10   Measured   0.0097   0.006   0.0200   0.0188   0.0161   0.0193   1.63     12   Measured   0.0061   0.0037   0.0173   0.0131   0.0188   0.0153   1.63		Туре	Тор	Bottom	Left	Right	Front	back	Linii(Avin)		
A   C <thc< th="">   C   C   C</thc<>	0	Estimate	1.5484	1.0689	0.118	0.1107	0.1111	0.1257	1.63	]	
4   Estimate   0.1223   0.0844   0.038   0.0356   0.0358   0.0405   1.63     6   Estimate   0.0426   0.0294   0.0284   0.0266   0.0267   0.0302   1.63     8   Measured   0.0213   0.0137   0.0218   0.0188   0.0213   0.0251   1.63     10   Measured   0.0097   0.006   0.0200   0.0188   0.0161   0.0193   1.63     12   Measured   0.0061   0.0037   0.0133   0.0138   0.0138   0.0153   1.63	2	Estimate	0.5059	0.3492	0.0575	0.0539	0.0541	0.0612	1.63	1	
A   A	4	Estimate	0.1223	0.0844	0.038	0.0356	0.0358	0.0405	1.63	1	
Image: Non-state   Image: Non-state<	6	Estimate	0.0426	0.0294	0.0284	0.0266	0.0267	0.0302	1.63	1	
12   Measured   0.0061   0.0037   0.0173   0.0131   0.0138   0.0153   1.63	8	Measured	0.0213	0.0137	0.0218	0.0188	0.0213	0.0251	1.63	1	
	10	Measured	0.0097	0.006	0.0200	0.0188	0.0161	0.0193	1.63	1	
14   Measured   0.0036   0.0025   0.0143   0.0128   0.0140   0.0147   1.63     15   Maxwell   <	12	Measured	0.0061	0.0037	0.0173	0.0131	0.0138	0.0153	1.63	1	
	14	Measured	0.0036	0.0025	0.0143	0.0128	0.0140	0.0147	1.63		
16 Measured 0.0023 0.002 0.0141 0.0101 0.0135 0.0149 1.63	16	Measured	0.0023	0.002	0.0141	0.0101	0.0135	0.0149	1.63	Ara	
	20	Measured	0.0013	0.0009	0.0089	0.0100	0.0091	0.0111	1.63	The second s	

## 4.6 **Conclusion**

A minimum safety distance of 0 cm to the antenna is required when the device is charging a CTA TESTING smart phone for portable exposure. The detected emissions are below the limitations according FCC KDB 680106 and confirmed by the FCC according to KDB Inquire...

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