EXPOSURE REPORT

FCC ID: 2AS5O-17309

Date of issue: July 15, 2019

Report Number: MTi19061214-3E2

Sample Description: Suction Power Bank Wireless Charger

Model(s): E-QI-17309-A, ENG-UQIB01

Applicant: China Etech Groups Ltd.

Address: 16/F, Block C, 2nd Phase of Central Avenue, Haihong

Industrial Area, Xixiang Road, Baoan District, Shenzhen

Date of Test: June 17, 2019 - July 15, 2019

Shenzhen Microtest Co., Ltd.

http://www.mtitest.com

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Applicant's name:	China Etech Groups Ltd.			
Address:	16/F, Block C, 2nd Phase of Central Avenue, Haihong Industrial Area, Xixiang Road, Baoan District, Shenzhen			
Manufacture's name:	DONGGUAN CHINA ETECH GROUPS CO., LTD.			
Address:	Block F, Longxing Industrial Park, Hongjin Road, Lizhoujiao, Hongmei Town, Dongguan City			
Product name:	Suction Powe	r Bank Wireless C	harger	
Trademark:	N/A			
Model name:	E-QI-17309-A	, ENG-UQIB01		
Standard:	FCC CFR 47 PART 1 , 1.1310			
RF Exposure Procedures:	KDB 680106 D01 RF Exposure Wireless Charging App v03			
This device described above I show that the equipment under only to the tested sample iden	er test (EUT) co	mpliance with the		
Tested by:			Ada	Xiang
		Ada Xiang		July 15, 2019
Reviewed by:	13 lue. Zherg			
		Blue Zheng		July 15, 2019
Approved by:		<	Swort	Johen

Smith Chen

July 15, 2019

1 General Information

1.1 Description of EUT

Product name:	Suction Power Bank Wireless Charger
Brand name:	N/A
Model name:	E-QI-17309-A
Series model:	ENG-UQIB01
Deference in serial model:	All the model are the same circuit and RF module, except the model No
Operation frequency:	115–205 kHz
Operational mode:	Wireless charging
Modulation type:	Load modulation
Antenna type:	Coil antenna
Power source:	N/A
Battery:	N/A
Adapter information:	DC 5V from adapter

1.2 Ancillary equipment list

Equipment	Model	S/N	Manufacturer
Adapter	/	/	1
Load	/	/	1

1.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

Radiated emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	± 5 %

2 Testing site

Test Site	Shenzhen Microtest Co., Ltd
Test Site Location	No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China
FCC Registration No.:	448573

3 List of test equipment

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E068	Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM- 520	D-1699	2018/09/13	2019/09/12
MTI-E069	Probe E-Field	Narda Safety Test Solutions	EF0691	H-0571	2018/09/13	2019/09/12

4 Test Results

4.4 Maximum permissible exposure

4.4.1 Limit

Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm2)	Averaging time(minutes)
	(A) Limits for	r Occupational/Contr	olled Exposure	
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	6
300-1500			f/300	6
1500-100000			5	6
	(B) Limits for Ge	neral Population/Und	controlled 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			f/1500	30
1500-100000			1	30
f = frequency in MHz * = Plane-wave equivalent power density				

4.4.2 Test Procedures

E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.

These measurements should be repeated for three different client battery levels, 1%, 50%, and 99%.

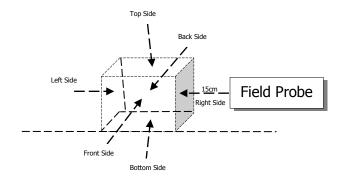
Record the test results.

KDB 680106 D01 RF Exposure Wireless Charging App v03:

- (1) Power transfer frequency is less than 1MHz.
- (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 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.

Note: The device is in compliance with KDB 680106 D01 RF Exposure Wireless Charging App v03 6 conditions.

4.4.3 Test Setup



4.4.4 Test Result

	Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H-field(A/m)	
<1%	Тор	20	0.205	0.105	
<1%	Bottom	15	0.211	0.116	
<1%	Left	15	0.215	0.137	
<1%	Right	15	0.246	0.114	
<1%	Front	15	0.221	0.128	
<1%	Back	15	0.239	0.179	
Limit			614	1.63	
Margin Limit (%)			0.040%	10.982%	

	Maximum permissible Exposure					
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H-field(A/m)		
<50%	Тор	20	0.332	0.202		
<50%	Bottom	15	0.317	0.216		
<50%	Left	15	0.313	0.212		
<50%	Right	15	0.314	0.229		
<50%	Front	15	0.347	0.211		
<50%	Back	15	0.322	0.207		
Limit			614	1.63		
Margin Limit (%)			0.057%	14.049%		

	Maximum permissible Exposure					
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H-field(A/m)		
<99%	Тор	20	0.314	0.201		
<99%	Bottom	15	0.327	0.208		
<99%	Left	15	0.312	0.215		
<99%	Right	15	0.318	0.212		
<99%	Front	15	0.321	0.221		
<99%	Back	15	0.316	0.205		
Limit			614	1.63		
Margin Limit (%)			0.053%	13.558%		

4.4.5 MPE Setup photo



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