

# EXPOSURE REPORT

FCC ID: 2AOTO-ST1802

Date of issue: Aug. 03, 2018

Report Number:	MTi180717E085
Sample Description:	Wireless charger
Model(s):	ST1802, ST1802A, ST1802B
Applicant:	Skytech Creations Limited
Address:	Unit 507, 5/F, IC Development Centre, 6W Science Park West Avenue, Shatin, Hong Kong
Date of Test:	June 19,2018 to July 18,2018

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>

## Table of Contents

Applicant's name:	Skytech Creations Limited
Address:	Unit 507, 5/F, IC Development Centre, 6W Science Park West Avenue, Shatin, Hong Kong
Manufacture's name:	Skytech Creations Limited
Address:	Unit 507, 5/F, IC Development Centre, 6W Science Park West Avenue, Shatin, Hong Kong
Product name:	Wireless charger
Trademark:	Skytech
Model name:	ST1802, ST1802A, ST1802B
Standard:	FCC CFR 47 PART 1 , 1.1310
RF Exposure Procedures:	KDB 680106 D01 RF Exposure Wireless Charging App v03

*This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.*

Tested by:



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Demi Mu

Aug. 03, 2018

Reviewed by:



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Blue Zheng

Aug. 03, 2018

Approved by:



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Smith Chen

Aug. 03, 2018

# 1 General Information

## 1.1 Description of EUT

Product name:	Wireless charger
Brand name:	Skytech
Model name:	ST1802
Series model:	ST1802-1, ST1802-2
Deference in serial model:	The wireless module used in the product is the same, just named and different colors.
Operation frequency:	115 – 205 kHz
Operational mode:	Wireless charging
Modulation type:	Load modulation
Antenna type:	Loop antenna
Power source:	DC 5V form adapter AC 230V/50Hz
Adapter information:	N/A

## 1.2 Ancillary equipment list

Equipment	Model	S/N	Manufacturer
/	/	/	/

## 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	2018/07/13	2019/07/12
MTI-E069	Probe E-Field	Narda Safety Test Solutions	EF0691	H-0571	2018/07/13	2019/07/12

## 4 Test Results

### 1.4 Maximum permissible exposure

#### 1.4.1 Limit

Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm <sup>2</sup> )	Averaging time(minutes)
(A) Limits for Occupational/Controlled Exposure				
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	6
300-1500			f/300	6
1500-100000			5	6
(B) Limits for General Population/Uncontrolled 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			f/1500	30
1500-100000			1	30

f = frequency in MHz \* = Plane-wave equivalent power density

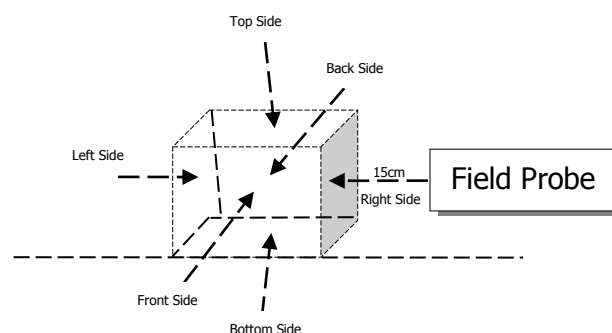
#### 1.4.2 Test Procedures

E and H-field measurements should be made with the center of the probe at a distance of 10 cm from all sides and the top of the primary/client pair.

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

Record the test results.

#### 1.4.3 Test Setup



## 1.4.4

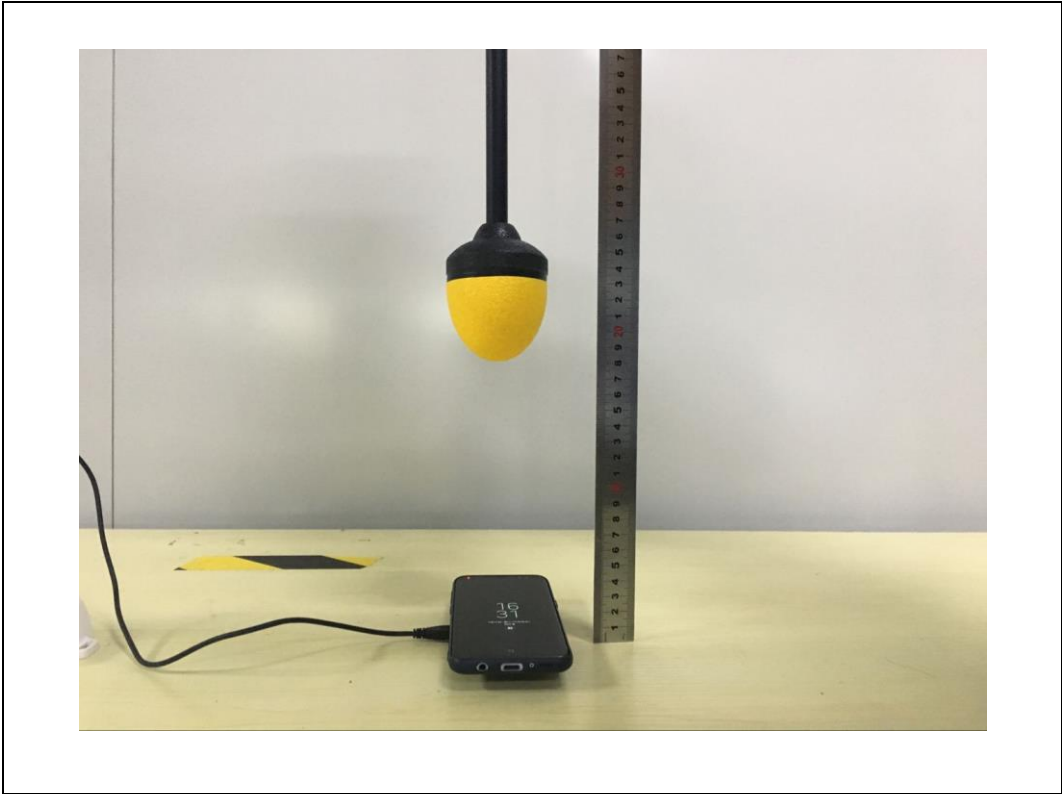
## Test Result

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	20	0.429	0.117
<1%	Bottom	15	0.418	0.115
<1%	Left	15	0.426	0.113
<1%	Right	15	0.419	0.109
<1%	Front	15	0.415	0.106
<1%	Back	15	0.412	0.108
Limit			614	1.63
Margin Limit (%)			0.069%	7.18%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<50%	Top	20	0.427	0.125
<50%	Bottom	15	0.409	0.114
<50%	Left	15	0.416	0.103
<50%	Right	15	0.415	0.102
<50%	Front	15	0.411	0.116
<50%	Back	15	0.416	0.108
Limit			614	1.63
Margin Limit (%)			0.070%	7.67%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<99%	Top	20	0.431	0.121
<99%	Bottom	15	0.429	0.111
<99%	Left	15	0.421	0.102
<99%	Right	15	0.425	0.101
<99%	Front	15	0.420	0.117
<99%	Back	15	0.417	0.103
Limit			614	1.63
Margin Limit (%)			0.070%	7.42%

1.4.5 MPE Setup photo



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