

EXPOSURE REPORT

FCC ID: 2ARI5-MP1001

Date of issue: Apr. 18, 2019

Report Number: MTi190416E110

Sample Description: MagPad

Model(s): MP1001

Applicant: Shenzhen Lingyi Innovation Tech Co., Ltd.

Address: 12 F, Block C, Central Avenue Building, Xixiang BLVD
West, Baoan District, Shenzhen, China.

Date of Test: Mar. 28, 2019 – Apr. 18, 2019

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>

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Applicant's name:	Shenzhen Lingyi Innovation Tech Co., Ltd.
Address:	12 F, Block C, Central Avenue Building, Xixiang BLVD West, Baoan District, Shenzhen, China.
Manufacture's name:	Shenzhen Lingyi Innovation Tech Co., Ltd.
Address:	12 F, Block C, Central Avenue Building, Xixiang BLVD West, Baoan District, Shenzhen, China.
Product name:	MagPad
Trademark:	Pitaka
Model name:	MP1001
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:



Demi Mu

Apr. 18, 2019

Reviewed by:



Blue Zheng

Apr. 18, 2019

Approved by:



Smith Chen

Apr. 18, 2019

1 General Information

1.1 Description of EUT

Product name:	MagPad
Trademark:	Pitaka
Model name:	MP1001
Series model:	N/A
Deference in serial model:	N/A
Operation frequency:	115–205 kHz
Operational mode:	Wireless charging
Modulation type:	Load modulation
Antenna type:	Loop antenna
Power source:	DC 5V or 9V from adapter
Battery:	N/A
Adapter information:	Model:FC69U Input:100-240V~50/60Hz 0.8A Max Output: QC:5V-3A 9V-3A 12V-2.5A PD: 5V-3A 9V-3A 12V-2.5A 15V-2A 20V-1.5A

1.2 Ancillary equipment list

Equipment	Model	S/N	Manufacturer
Adapter	FC69U	KX2018490024444	/
Mobile phone	/	/	/

1.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, $U=2 \times U_c(y)$

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

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/cm ²)	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 ²	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 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 1 MHz.

(Conform) The EUT operates at 115kHz-205kHz

(2) Output power from each primary coil is less than or equal to 15 watts.

(Conform) The output power is less than 15W in the manual.

(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.

(Conform) It is confirmed that the sample has only one primary coil and one secondary coil.

(4) Client device is placed directly in contact with the transmitter.

(Conform) The client is in direct contact with the product to charge

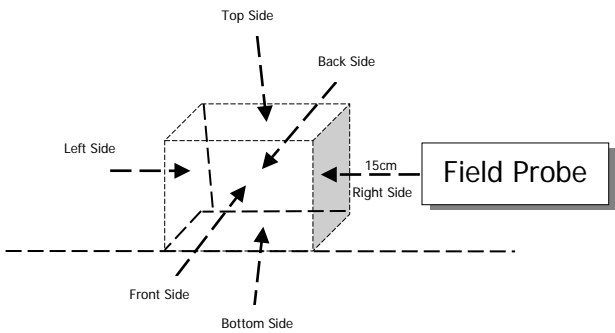
(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

(Conform) This EUT is compatible with mobile devices

(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.

(Conform) Please refer to the following test data

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%	Top	20	0.417	0.113
<1%	Bottom	15	0.421	0.118
<1%	Left	15	0.427	0.114
<1%	Right	15	0.421	0.108
<1%	Front	15	0.411	0.105
<1%	Back	15	0.412	0.101
Limit			614	1.63
Margin Limit (%)			0.069%	7.06%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H–field(A/m)
<50%	Top	20	0.421	0.128
<50%	Bottom	15	0.407	0.116
<50%	Left	15	0.413	0.117
<50%	Right	15	0.413	0.109
<50%	Front	15	0.421	0.111
<50%	Back	15	0.412	0.109
Limit			614	1.63
Margin Limit (%)			0.069%	7.85%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E –field(V/m)	H–field(A/m)
<99%	Top	20	0.433	0.119
<99%	Bottom	15	0.427	0.104
<99%	Left	15	0.421	0.105
<99%	Right	15	0.414	0.107
<99%	Front	15	0.421	0.112
<99%	Back	15	0.416	0.105
Limit			614	1.63
Margin Limit (%)			0.071%	7.30%

4.4.5

MPE Setup photo



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