

## RF EXPOSURE REPORT

OF

**Applicant:** Jingletek Co., Ltd.  
No.40, Renzhong 7th St., Rende Dist., Tainan City 717

**Product Name:** Wireless Charging Pad

**Brand Name:** STRIKE

**Model No.:** SKTP1CP2

**Model Difference:** N/A

**Report Number:** E2/2018/90058

**FCC ID** 2ARL2-JGSK01

**FCC Rule Part** Part 2.1091

**Issue Date:** Jan. 18, 2018

**Date of Test:** Sep. 26, 2018~ Oct. 05, 2018

**Date of EUT Received:** Sep. 26, 2018

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation in this report is in compliance with FCC Rules Part 2.

The test results of this report relate only to the tested sample identified in this report.

**Tested By:** \_\_\_\_\_

*Vito Pei*  
**Vito Pei / Sr. Engineer**

**Approved By:** \_\_\_\_\_

*John Yeh*  
**John Yeh / Assistant Manager**



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## 1 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 1.1 Standard Applicable

According to KDB 680106 D01 RF Exposure Wireless Charging App v03

RF exposure potential to users and bystanders is expected to vary according to factors inherent to the design of individual systems, which generally requires different evaluation considerations to show compliance.

When exposure concerns arise; for example, due to evolving products and operations, RF exposure evaluation may be requested under the provisions of Sections 1.1307 (c) and (d) to determine compliance. Because of significant variations in design and operating characteristics, the procedures required to evaluate RF exposure compliance for wireless power transfer are considered according to the exposure potentials of individual implementations

The RF exposure requirements must be determined in conjunction with the device operating characteristics, according to the mobile and portable exposure requirements in Sections 2.1091 and 2.1093 of the rules. SAR and MPE limits do not cover the frequency range for wireless power transfer applications which operate below 100 kHz and 300 kHz respectively; therefore, RF exposure compliance needs to be determined with respect to Sections 1.1307 (c) and (d) of the FCC rules.

### 1.2 Limits for Maximum Permissible Exposure (MPE)

Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposure</b>				
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
300-1,500			f/300	6
1,500-100,000			5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
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
300-1,500			f/1500	30
1,500-100,000			1.0	30

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

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### 1.3 The Worst Charging Condition:

Ancillary Equipment	Charging Condition	Verdict
Load	Full Loading	PASS
Load	99% Loading	PASS
Load	50% Loading	PASS
Load	1% Loading	PASS

Note: For Wireless Power Consortium Qi specification, a lower operating frequency or high duty cycle result in the transfer of a higher amount of power and charging current.

### 1.4 Measurement Procedure:

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm and 20 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm and 20 cm measured from the center of the probe(s) to the edge of the device.

### 1.5 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EM RADIATION METER	Wandel&Goltermann	EMR-30	M-0006	2017/10/14	2018/10/13

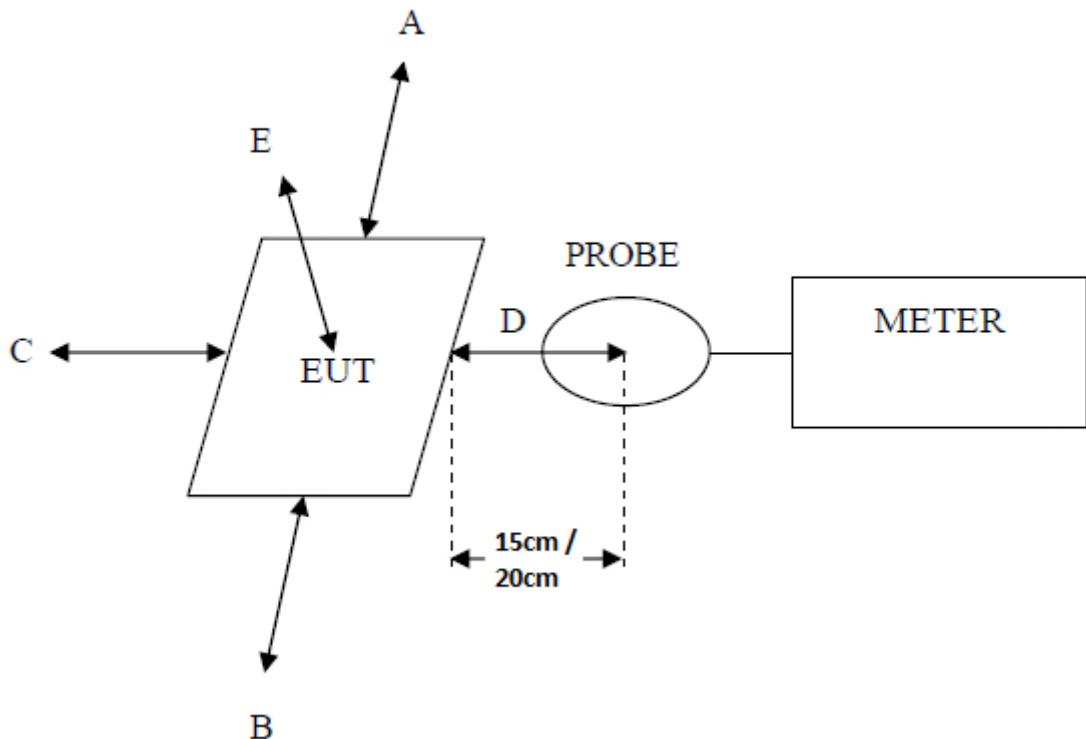
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## 1.6 Test Set-up:



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## 1.7 Maximum Permissible Exposure (MPE) Evaluation:

Full Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	E-field (V/m)	H-field (A/m)
Front	15 cm	5.15	0.005
Left	15 cm	5.1	0.013
Right	15 cm	5.39	0.016
Top	15 cm	5.42	0.0134
Bottom	15 cm	5.29	0.0128
Limit		614	1.63
50% of the Limit		307	0.815

99% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	E-field (V/m)	H-field (A/m)
Front	15 cm	5.12	0.01
Left	15 cm	5.03	0.01
Right	15 cm	5.51	0.0175
Top	15 cm	5.37	0.0145
Bottom	15 cm	5.45	0.0132
Limit		614	1.63
50% of the Limit		307	0.815

50% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	E-field (V/m)	H-field (A/m)
Front	15 cm	5.1	0.008
Left	15 cm	5.02	0.0083
Right	15 cm	5.09	0.0116
Top	15 cm	5.15	0.0127
Bottom	15 cm	5.12	0.0115
Limit		614	1.63
50% of the Limit		307	0.815

1% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	E-field (V/m)	H-field (A/m)
Front	15 cm	5.11	0.0097
Left	15 cm	5.14	0.0091
Right	15 cm	5.3	0.0133
Top	15 cm	5.3	0.0158
Bottom	15 cm	5.29	0.0142
Limit		614	1.63
50% of the Limit		307	0.815

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## Full Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	E-field (V/m)	H-field (A/m)
Front	20 cm	4.92	0.005
Left	20 cm	5.01	0.0067
Right	20 cm	5.03	0.0128
Top	20 cm	5.3	0.013
Bottom	20 cm	5.34	0.0091
Limit		614	1.63
50% of the Limit		307	0.815

## 99% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	E-field (V/m)	H-field (A/m)
Front	20 cm	4.92	0.007
Left	20 cm	5.01	0.0087
Right	20 cm	5.03	0.0137
Top	20 cm	5.3	0.0134
Bottom	20 cm	5.34	0.0101
Limit		614	1.63
50% of the Limit		307	0.815

## 50% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	E-field (V/m)	H-field (A/m)
Front	20 cm	4.83	0.007
Left	20 cm	4.8	0.0068
Right	20 cm	5	0.0102
Top	20 cm	5.03	0.0094
Bottom	20 cm	5.2	0.0089
Limit		614	1.63
50% of the Limit		307	0.815

## 1% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	E-field (V/m)	H-field (A/m)
Front	20 cm	4.97	0.0061
Left	20 cm	4.8	0.007
Right	20 cm	5.04	0.0128
Top	20 cm	4.92	0.0124
Bottom	20 cm	5.15	0.0129
Limit		614	1.63
50% of the Limit		307	0.815

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