

# RF Exposure Report

Report No.: AGC02174180501FH03

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION**: Wireless Charging Base

BRAND NAME : PISEN

**MODEL NAME** : TS-C096W

CLIENT : GUANGDONG PISEN ELECTRONICS CO., LTD

**DATE OF ISSUE**: May 24, 2018

STANDARD(S) : KDB 680106 D01 RF Exposure Wireless Charging Base

App v03

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4,Chaxi Sanwei Technical Industrial Park,Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



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# REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	TO W	May 24, 2018	Valid	Initial Release

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# 1. VERIFICATION OF CONFORMITY

311090						
Applicant	GUANGDONG PISEN ELECTRONICS CO., LTD					
Address	NO.9,QINFU 1ST.STREET JINTANG INDUSTRY ZONE LIUYUE, HENGGANG TOWN, LONGGANG DISTRICT, SHENZHEN					
Manufacturer	GUANGDONG PISEN ELECTRONICS CO., LTD					
Address	NO.9,QINFU 1ST.STREET JINTANG INDUSTRY ZONE LIUYUE, HENGGANG TOWN, LONGGANG DISTRICT, SHENZHEN					
Product Designation	Wireless Charging Base					
Brand Name	PISEN					
Test Model:	TS-C096W					
Date of test	May 18, 2018 to May 24, 2018					
Deviation	None					
Condition of Test Sample	Normal					
Report Template	AGCRT-US-BR/RF (2013-03-01)					
2000	7 N CO'					

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in KDB 680106 D01.

The results of testing in this report apply to the product/system which was tested only.

Tested By	Marc Zhang	
THE STATE OF THE S	Max Zhang(Zhang Yi)	May 24, 2018
Reviewed By	Bore xie	
F. Colori Completico	Bart Xie(Xie Xiaobin)	May 24, 2018
Approved By	Forresto ce	
不 挖 河	Forrest Lei(Lei Yonggang) Authorized Officer	May 24, 2018

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## 2. GENERAL INFORMATION

# 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	145.1KHz
Maximum field strength	55.31dBuV/m(Peak)@3m
Modulation	FSK
Number of channels	
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Hardware Version	REV:00
Software Version	V1.0
Power Supply	DC 5V/DC 9V

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# 3. DESCRIPTION OF TEST MODES

30 HG2		3.77	Cov	The country	
NO.		TEST MODE DESCRIPTION			
11	· 10 10 0 10 10 10 10 10 10 10 10 10 10 1	Wireless charging Mode at 9V(Full load)	30	1.GC	
<sup>3000</sup> 2	3 # January Company	Wireless charging Mode at 9V (Half load)			HET Minnes
3	,	Wireless charging Mode at 9V (Null load)	KE HIM	® # Jon of close	alcon
4	报酬 报酬	Wireless charging Mode at 5V (Full load)	1031	C Mes	CC
5	il Global Co.	Wireless charging Mode at 5V (Half load)			
6	CC P	Wireless charging Mode at 5V (Null load)		Ki olimos (8)	F Globe
NI-4-	100	THE STATE OF THE S	F Globs	C.	Attestan

## Note:

1. The mode 1 was the worst case and only the data of the worst case record in this report.

# 4. SYSTEM TEST CONFIGURATION

Item	Equipment Model No.		Equipment Model No. ID or Specification	
a Compliance	Wireless Charging Base	TS-C096W	2AF56-TS-C096W	EUT
2	Adapter	SJ-0510-USB	100-240V 50/60Hz 0.2A DC9V 2A	Support
3	Adapter	SJ-0511-USB	100-240V 50/60Hz 0.2A DC5V 2A	Support
4	Wireless electronic Load	To Comment	Maximum power 10W	Support

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# 5. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd					
Location	-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, ao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang oner Ring Road, Baoan District, Shenzhen 518012					
NVLAP LAB CODE	600153-0					
Designation Number	CN5028					
FCC Test Firm Registration Number	682566					
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0					

# **TEST EQUIPMENT LIST**

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-550	J-0004	June 15, 2017	June 14, 2018
Probe FHP	Narda Safety Test Solutions GmbH	EHP-50F	J-0015	June 15, 2017	June 14, 2018

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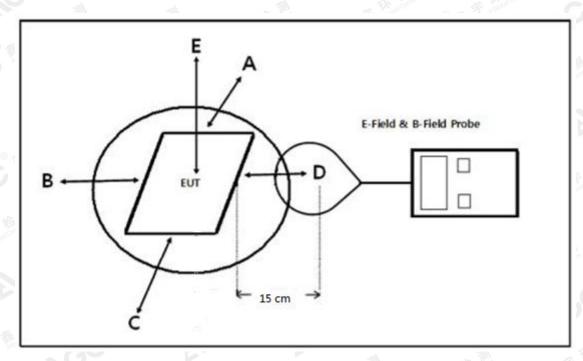
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# 6. RADIO FREQUENCY (RF) EXPOSURE TEST

#### 6.1. LIMITS

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. 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 measured from the center of the probe(s) to the edge of the device. 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.

# 6.2. TEST SETUP



Note: Position A: Front of EUT; Position B: Left of EUT; Position C: back of EUT; Position D: Right of EUT; Position E: Top of EUT(15 cm measure distance);

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## **6.3. TEST PROCEDURE**

The EUT was placed on a non-conductive table top and the ancillary equipment (e.g. mobile phone) was placed on the EUT for charging.

Maximum E-field and H-field measurements were tested 15cm from each side of the EUT. For top side the measure distance is 15cm.

Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.

#### 6.4. TEST RESULT

Test condition: Mode 1

E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
145.1kHz	0.23	0.18	0.21	0.23	2.95	614

#### H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
145.1kHz	0.09	0.12	0.10	0.12	0.75	1.63

Test condition: Mode 2
E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
145.1kHz	0.13	0.11	0.14	0.15	1.23	614

## H-field strength test result:

200				91111	. Pr - V	0
Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
145.1kHz	0.10	0.11	0.10	0.12	0.72	1.63

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Test condition: Mode 3 E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
145.1kHz	0.12	0.11	0.10	0.09	0.85	614

# H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
145.1kHz	0.11	0.10	0.109	0.8	0.69	1.63

Test condition: Mode 4
E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
145.1kHz	0.10	0.11	0.12	0.11	1.96	614

# H-field strength test result:

lin	Frequency	Probe	Probe	Probe	Probe	Probe	Limit
lisus	Range	Position A	Position B	Position C	Position D	Position E	(A/m)
		(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
	145.1kHz	0.08	0.09	0.11	0.10	0.67	1.63

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# Test condition: Mode 5 E-field strength test result:

	Frequency	Probe	Probe	Probe	Probe	Probe	Limit
in of	Range	Position A	Position B	Position C	Position D	Position E	(V/m)
		(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
7	145.1kHz	0.10	0.12	0.11 The Completion	0.12	1.76	614

#### H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
145.1kHz	0.120	0.151	0.09	0.10	0.69	1.63

Test condition: Mode 6
E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
145.1kHz	0.12	0.11	0.13	0.12	1.75	614

## H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
145.1kHz	0.09	0.10	0.12	0.11	0.73	1.63

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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Position E



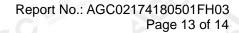
Position A



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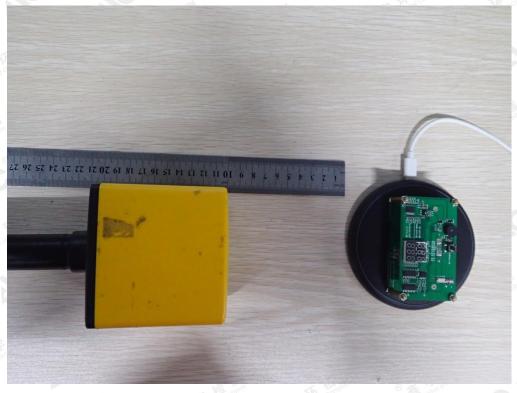
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# Position B



Position C



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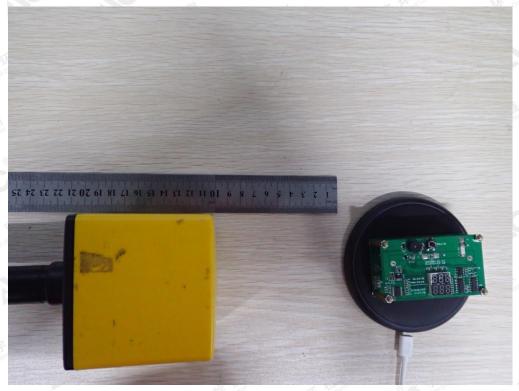
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# Position D



----END OF REPORT----

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