



MPE TEST REPORT

Report No:STS2111148H01

Issued for

GAZE ART LIGHTING CO,LTD

SHI XIA ROAD NO.48, SHI XIA VILLAGE, DA LANG TOWN,
DONG GUAN CITY, CHINA.

Product Name:	Wireless charger part -18
Brand Name:	N/A
Model Name:	S22GAZE1011
Series Model:	S22GAZE1008
FCC ID:	2A3YL1011
Test Standard:	FCC CFR 47 part 1, 1.1310

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**TEST RESULT CERTIFICATION**

Applicant's Name : GAZE ART LIGHTING CO,LTD
Address : SHI XIA ROAD NO.48, SHI XIA VILLAGE, DA LANG TOWN,
DONG GUAN CITY, CHINA.
Manufacturer's Name : GAZE ART LIGHTING CO,LTD
Address : SHI XIA ROAD NO.48, SHI XIA VILLAGE, DA LANG TOWN,
DONG GUAN CITY, CHINA.

Product Description

Product Name : Wireless charger part -18
Brand Name : N/A
Model Name : S22GAZE1011
Series Model : S22GAZE1008
Standards : FCC CFR 47 part 1, 1.1310
Test Procedure : 680106 D01 RF Exposure Wireless Charging Apps v03r01

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

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Date of Test :
Date of receipt of test item : 24 Nov. 2021
Date of performance of tests : 24 Nov. 2021 ~ 07 Dec. 2021
Date of Issue : 07 Dec. 2021
Test Result : **Pass**

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean She)

Authorized Signatory :

(Vita Li)





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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	07 Dec. 2021	STS2111148H01	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

FCC CFR 47			
Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB680106 D01v03	Electric Field Strength (E) (V/m)	PASS	
	Magnetic Field Strength (H) (A/m)	PASS	

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainly
1	H-filed	$\pm 0.83\text{dB}$
2	E-filed	$\pm 0.91\text{dB}$

1.3 GENERAL DESCRIPTION OF THE EUT

Product Name	Wireless charger part -18
Trade Name	N/A
Model Name	S22GAZE1011
Series Model	S22GAZE1008
Model Difference	The internal structure and design of the product are completely the same, only difference in model name.
Equipemnt Category	Non-ISM frequency
Antenna Type	Please refer to the Note 2.
Operating frequency	110.5-205KHz
Modulation Type	ASK
Adapter	Input: AC 100-240V 50/60Hz, 0.3A Max Output:DC 7.5V 0.6A
Battery	Rated Voltage:3.7V Charge Limit Voltage:4.2V Capacity: 2000mAh
Hardware version number	V1.0
Software version number	V1.0
Connecting I/O Port(s)	Please refer to the Note 1.

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	NOTE
1	N/A	S22GAZE1011	Coil	N/A	Antenna

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.



1.4 EQUIPMENTS LIST FOR ALL TEST ITEMS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Electric and Magnetic field Probe - Analyzer	Narda	EHP 200A	180ZX10220	2021.08.02	2022.08.02

1.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.

2. MAXIMUM PERMISSIBLE EXPOSURE

2.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180 / f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1	30

Note 1: f = frequency in MHz ; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03

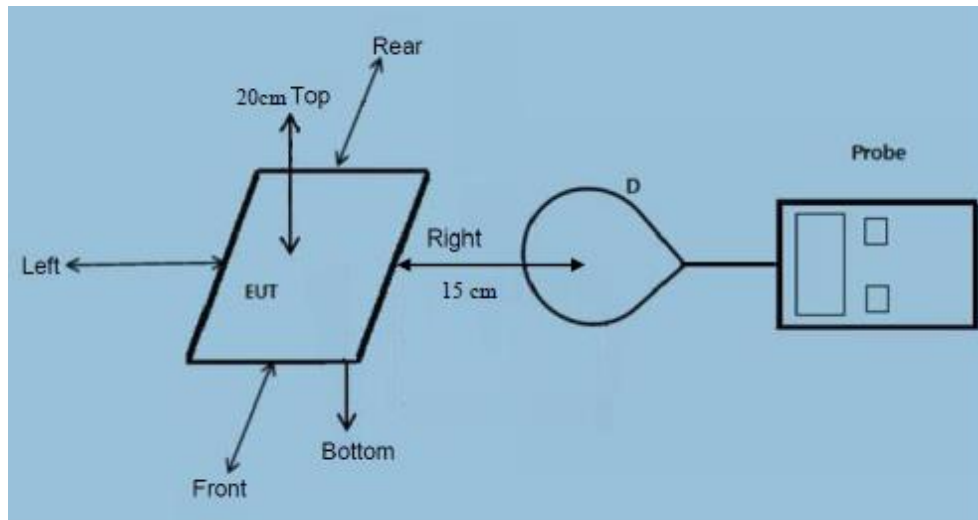
Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

Note 4: 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.

2.2 TEST 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 20 cm(Top) and 15cm(Edge). 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 20 cm(Top) and 15cm(Edge) measured from the center of the probe(s) to the edge of the device.

2.3 TEST SETUP



2.4 TEST RESULTS

The EUT does comply with item 5 KDB680106 D01 v03.

- (1) Power transfer frequency is less than 1 MHz.
(Conform)
- (2) Output power from each primary coil is less than or equal to 15 watts.
(No)
- (3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.
(Conform)
- (4) Client device is placed directly in contact with the transmitter.
(Conform)
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
(Conform)
- (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)

2.5 MAXIMUM PERMISSIBLE EXPOSURE

No load			
Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
15cm	Front	0.4021	0.0473
15cm	Rear	0.5487	0.0538
15cm	Left	0.4905	0.0525
15cm	Right	0.6329	0.0548
20cm	Top	0.4556	0.2001
Limit		614	1.63
Margin Limit (%)		0.10%	12.28%

Half a load			
Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
15cm	Front	0.4050	0.0518
15cm	Rear	0.5489	0.0580
15cm	Left	0.4950	0.0570
15cm	Right	0.6350	0.0560
20cm	Top	0.4590	0.2030
Limit		614	1.63
Margin Limit (%)		0.10%	12.45%

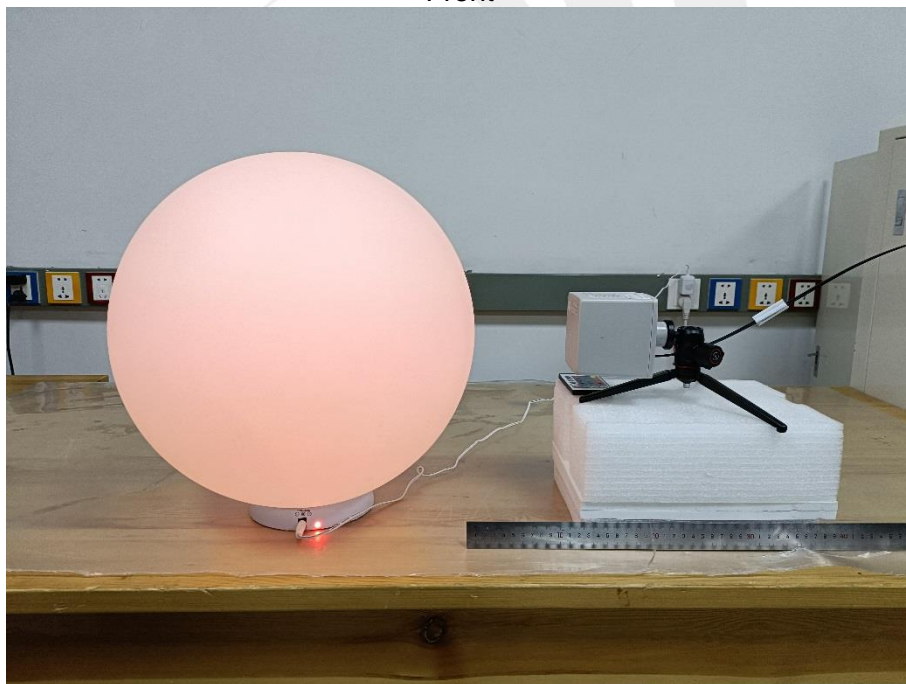
Fully loaded			
Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
15cm	Front	0.4022	0.0491
15cm	Rear	0.5475	0.0556
15cm	Left	0.4947	0.0563
15cm	Right	0.6332	0.0544
20cm	Top	0.4590	0.2007
Limit		614	1.63
Margin Limit (%)		0.10%	12.31%

MPE SETUP PHOTO

Top



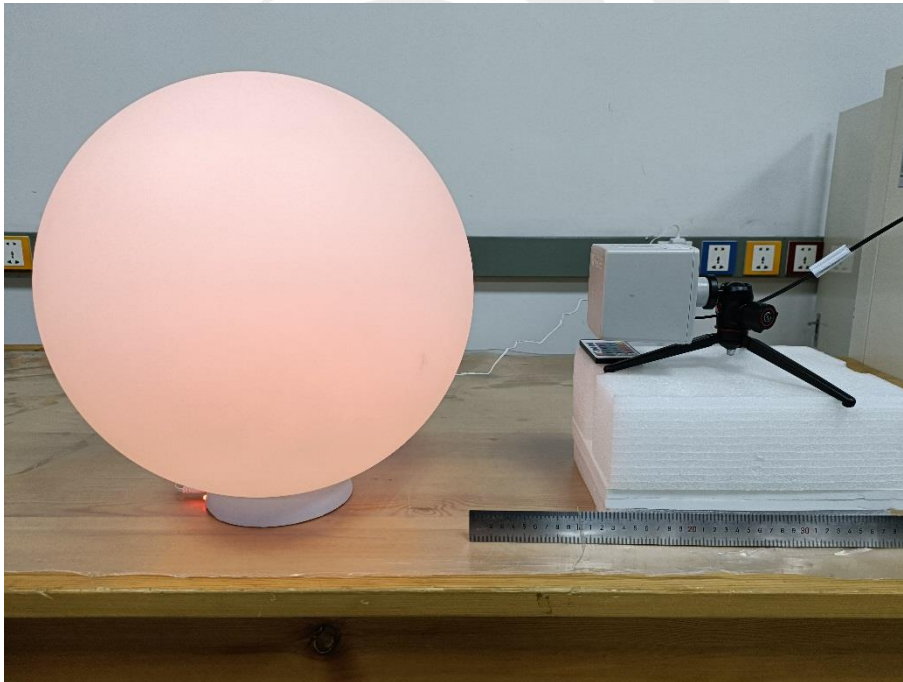
Front



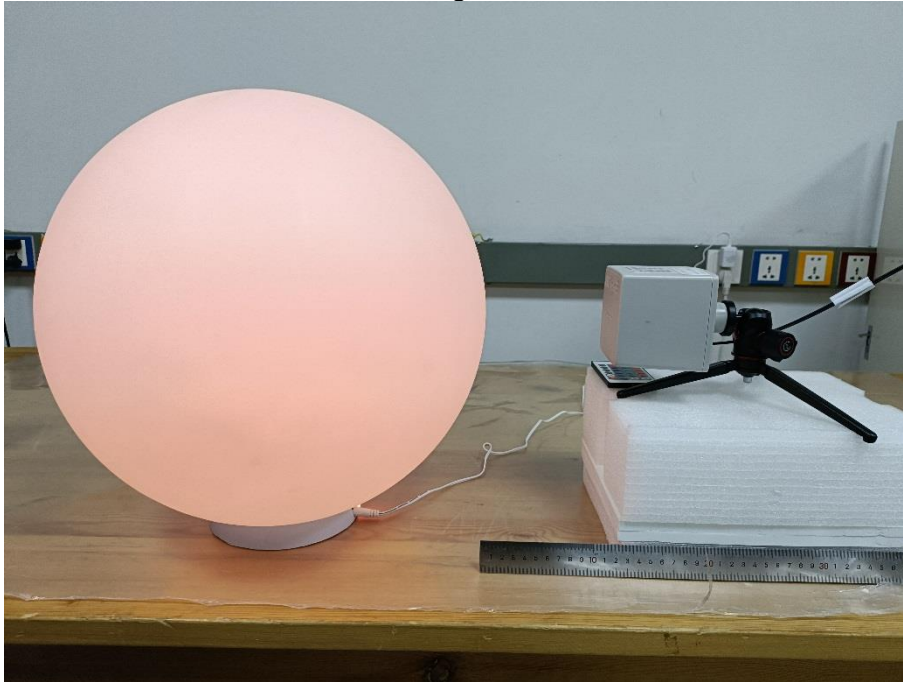
Rear



Left



Right



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