

Report No: FCS202408397H01

Issued for

Applicant:	Shenzhen Paian Technology Co., Ltd.			
Address:	Fl. 6-8,Bldg. 1,Haitian Lanyu Tech. Park,No. 5 Gongye 2nd Rd.,Shilong Community,Shiyan St.,Bao'an Dist., Shenzhen, China			
Product Name:	doorbell			
Brand Name:	N/A			
Model Name:	SC-A320			
FCC ID:	2BKX7SC-A320			
Test Standard:	FCC 47CFR §2.1093			
Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com				



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TEST RESULT CERTIFICATION Applicant's Name..... Shenzhen Paian Technology Co., Ltd. Fl. 6-8,Bldg. 1,Haitian Lanyu Tech. Park,No. 5 Gongye 2nd Address: Rd., Shilong Community, Shiyan St., Bao'an Dist., Shenzhen, China Manufacture's Name...... Shenzhen Paian Technology Co., Ltd. Fl. 6-8,Bldg. 1,Haitian Lanyu Tech. Park,No. 5 Gongye 2nd Address: Rd., Shilong Community, Shiyan St., Bao'an Dist., Shenzhen, China **Product Description** Product Name: doorbell Brand Name: N/A Model Name: SC-A320 Series Model: SC-A310 FCC 47CFR §2.1093 Test Standards: 447498 D04 Interim General RF Exposure Guidance v01

This device described above has been tested by Flux Compliance Service Laboratory, 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 (s) of performance of tests.:Aug 23. 2024 ~ Aug 28. 2024Date of Issue......Aug 28. 2024Test ResultPass

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Tested by

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(Scott Shen)

Dukellan

(Duke Qian)

Reviewed by

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Approved by

10 yours



(Jack Wang)

Flux Compliance Service Laboratory

Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com



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Revision History

Rev.	Issue Date	Contents
00	Aug 28. 2024	Initial Issue



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1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	doorbell		
Brand	N/A		
Model Number	SC-A320		
Series Model(s)	SC-A310		
Model Difference	Only the model name and appearance differ.		
	The EUT is doorbe	9ll	
Product Description	Operation Frequency:	433.92 MHz	
	Modulation Type:	ООК	
	Antenna gain:	0 dBi	
	Antenna Designation:	PCB Antenna	
Battery	DC 3V from Lithium battery		
Hardware Version	V1.0		
Software Version	V1.0		

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1.2 TEST FACTORY

Company Name: F	Flux Compliance Service Laboratory			
	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan			
Telephone: +	+86-769-27280901			
Fax: +	+86-769-27280901			
Designation number: CN A2LA accreditation numb ISED Number: 25801 CAB ID : CN0097				
Organization	CAB identifier	Scope / Recognition Date (yyyy-mm-dd)	Expiration (yyyy-mm-dd)	
FLUX COMPLIANCE SERVICE Baohao Technology Building 1 Nd Road Hi-Tech Industrial Park S Dongguan, Guangdong. PRC.	CN0097 D. 15 Gongye West Songsham Lake	RSS-102(RFExp) (2020-01-09) RSS-GEN (2020-01-09) RSS-210 (2020-01-09) RSS-247 (2020-01-09)	RECOGNIZED UNTIL: 2023-12-31 A2LA ISO/IEC 17025: 2017 Expires: 2023-12-31	
ISED#: 2580 Contact: Andy Y andv-vue@fcs-lab.	le			

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2. FCC 47CFR §2.1093 REQUIREMENT

2.1 TEST STANDARDS

Follow the maximum permissible exposure (MPE) limits specified in 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The gain of the antenna used in the product was extracted from the supplied antenna data sheet and the maximum total power input to the antenna was also measured. Calculate the distance from the product to the MPE limit by the formula.

2.2 LIMIT

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th} (mW) = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz};$$

and

$$ERP_{20 cm} (mW) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);



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(C) Or using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

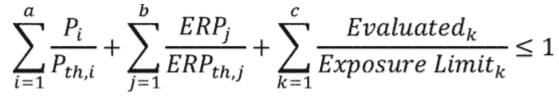
RF Source frequency (MHz)	Threshold ERP(watts)	
0.3-1.34	1,920 R ² .	
1.34-30	3,450 R²/f².	
30-300	3.83 R ² .	
300-1,500	0.0128 R ² f.	
1,500-100,000	19.2R ² .	



For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.



Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of Part 1.1307 for Pth, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of Part 1.1307 for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth, j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph (b)(3)(i)(C) of Part 1.1307.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310.

Flux Compliance Service Laboratory

Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com



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2.3 TEST RESULT

Turn up

Mode	e Field Strength EIRP		Turn up EIRP	
433.92 MHz	79.43 dBuV/m	-15.77dBm	-15 dBm (+/- 1dBm)	

Protocol	Fre. (GHz)	Separation distance (cm)	Max ERP (dBm)	Max EIRP (mW)	Limit (mW)	Result
433.92 MHz	0.43392	0.5	-16.15	0.024	1	Pass

Note: 1. EIRP(dBm)= E(dBuV/m)-95.2

2. ERP=EIRP-2.15

3. The Maxinum power is less than 1mW, complies with the exemption requirements.

** ** ** ** END OF THE REPORT ** ** ** **