

TEST REPORT

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Report Number: 2504Y18396E-RF
FCC ID: 2A4G9-028

Test Standard (s)

FCC PART 2.1091

Sample Description

Product Name: Smart Timer Box
Model No.: PTZA01, PTZA02, PTZA03, PTZA04
Trade Mark: 
Date Received: 2025-10-27
Report Date: 2026-03-23

Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:

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EMC Engineer

Approved By:

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EMC Engineer

Note: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA, or any agency of the Federal Government. The information marked "#" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked.
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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504Y18396E-RF	Original Report	2026-03-23

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name	Smart Timer Box		
Main Tested Model	PTZA01		
Multiple Model	PTZA02, PTZA03, PTZA04		
Note [#] : The applicant claims that there are differences in the model name, the shell material and specifications between the models, as below. Please refer to DOS letter for details			
Model	Shell material	Input voltage	Output voltage
PTZA01	Iron shell	120V _{AC} 60Hz	40A Resistive, 120V _{AC} 2HP, 120V _{AC}
PTZA02	Iron shell	240V _{AC} 60Hz	40A Resistive, 240V _{AC} 3HP, 240V _{AC}
PTZA03	Plastic shell	120V _{AC} 60Hz	40A Resistive, 120V _{AC} 2HP, 120V _{AC}
PTZA04	Plastic shell	240V _{AC} 60Hz	40A Resistive, 240V _{AC} 3HP, 240V _{AC}

Frequency Range	912MHz-920MHz 908.4MHz-916MHz
Maximum Conducted Peak Output Power (actual test result)	912MHz-920MHz: 8.5dBm
Maximum E-Field Strength (Peak)	908.4MHz-916MHz: 105.3dBuV/m@3m
Antenna Specification [#]	Integrated Antenna, Gain: 1.5dBi (It is provided by the applicant.)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 1-Subpart I and Part 2-Subpart J, Radiofrequency Radiation Exposure of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC §1.1307(b)& §2.1091 rules.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA). The Certificate Number is 4297.01.

RF EXPOSURE

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)
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
1500-100,000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

Result

Calculated Formulary:

- Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Calculated Result:

Frequency (MHz)	Tune up conducted power [#] (dBm)	Antenna Gain [#] (dBi)	EIRP		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
			(dBm)	(mW)			
912-920	9.0	1.5	10.5	11.22	20	0.0022	1.0
908.4-916	/	/	10.1	10.23	20	0.0020	1.0

Note 1: The tune-up power and antenna gain are declared by the applicant.

Note 2: EIRP= Tune up conducted power + Antenna Gain

Note 3: E(dBuV/m)=EIRP(dBm)-95.2 for distance 3m

Use the highest E-field strength(105.3 dBuV/m@3m) for the evaluation,

so the EIRP= 105.3 dBuV/m@3m-95.2= 10.1dBm

Note 4: The 900M wireless function cannot transmit simultaneously.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504Y18396E-RF EUT External Photos and Attachment No.2 2504Y18396E-RF EUT Internal Photos.

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