



TEST REPORT

Applicant Name: Best Epoch Technology Co.,LTD
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Nanshan District, Shenzhen City,P.R.CHINA
Report Number: 2504Z84730E-RF-00C
FCC ID: 2AZRE-PS100

Test Standard (s)

FCC PART 2.1091

Sample Description

Product Name: Robotic Pool Skimmer
Model No.: PS100, SP200, QT200, TBPS200
Trade Mark: N/A
Date Received: 2025-11-10
Report Date: 2026-01-14

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:

Bob. Liao

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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	2504Z84730E-RF-00C	Original Report	2026-01-14

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name	Robotic Pool Skimmer
Tested Model	PS100
Multiple Model	SP200, QT200, TBPS200
Model Difference [#]	They are just different with the model names of the sales platform, the rest are the same. Please refer to DOS letter for more detail. The applicant provided model "PS100" for testing.
Voltage Range [#]	DC 19V from Adapter or DC 14.4V from Lithium-ion Battery
Adapter Information [#]	Model: DBS024C-1901000U Input: 100-240V~ 50-60Hz 0.8A Output: 19.0V ---1.0A

Frequency Range	BLE: 2402-2480MHz 2.4G Wi-Fi: 2412-2462 MHz
Maximum Conducted Output Power	BLE: 4.22 dBm 2.4G Wi-Fi: 20.51 dBm
Antenna Specification [#]	Omni-directional Antenna, Gain: 3.64 dBi (It is provided by the applicant.)
Sample Serial Number	3CJM-3 (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts C 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 §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)

Radio	Frequency (MHz)	Antenna Gain [#]		Tune up conducted power [#]		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
BLE	2480	3.64	2.31	4.25	2.66	20	0.001	1.0
2.4G Wi-Fi	2462	3.64	2.31	20.55	113.50	20	0.052	1.0

Note 1: The tune up conducted power and antenna gain were provided the applicant.

Note 2: The Bluetooth and WIFI can't transmission 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 2504Z84730E-RF EUT External Photos and Attachment No.2 2504Z84730E-RF EUT Internal Photos.

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