



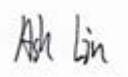
## RF EXPOSURE REPORT

For

### FUJIAN YESOUL HEALTH TECHNOLOGY CO.,LTD

RM-B616, BLDG., NO.1, STRAIT ECONOMIC AND TRADE PLAZA, FUZHOU FREE  
TRADE ZONE, FUZHOU, FUJIAN, China

**FCC ID: 2A3YB-YS-001**

<b>Report Type:</b> Original Report	<b>Product Name:</b> YESOUL Smart Cycling Bike
<b>Report Number:</b>	2407X32126E-RF-03
<b>Report Date:</b>	2025-01-15
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**REPORT REVISION HISTORY**

Number of Revisions	Report No.	Version	Issue Date	Description
0	2407X32126E-RF-03	R1V1	2025-01-15	Initial Release

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

Product Name:		YESOUL Smart Cycling Bike
Tested Model:		YS-001
Multiple Model(s):		YS-BJ1PLUS, C1AEV
Power Supply:		DC 24V from Adapter
Adapter Information	Model:	J652-2403000DI
	Input:	AC 100-240V, 50/60Hz, 1.7A
	Output:	DC 24V, 3.0A, 72W
Maximum Output Power:		<b>Classic BT:</b> 5.3dBm <b>BLE:</b> 2.69dBm <b>2.4G WIFI:</b> 18.32dBm
Operating Band/Frequency:		<b>Classic BT:</b> 2402-2480 MHz <b>BLE:</b> 2402-2480MHz <b>2.4G WIFI:</b> 802.11b/g/n20: 2412-2462 MHz; 802.11n40: 2422-2452 MHz
Antenna Type:		PCB Antenna
★Maximum Antenna Gain:		<b>Classic BT:</b> 3.71 dBi <b>BLE:</b> 3.71 dBi <b>2.4G WIFI:</b> 3.71 dBi
EUT Received Status:		Good
<i>Note:</i> 1. The Maximum Antenna Gain was declared by manufacturer. 2. The test model is identify with the series models except for the model name, please refer to declaration letter for more detail. 3. All measurement and test data in this report was gathered from production sample serial number: 2RG1-2 (Assigned by the BACL(Xiamen). The EUT supplied by the applicant was received on 2024-09-09)		

## MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### Applicable Standard

According to FCC §1.1307(b)(1) & §2.1091, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Limits for Maximum Permissible Exposure (MPE)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	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;  
According to §1.1307(b)(1) & §2.1091 RF exposure is calculated.

### Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$  = power density (in appropriate units, e.g. mW/cm<sup>2</sup>);

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);

$$\sum_f \frac{S_f}{S_{\text{Limit},f}} \leq 1$$

**Calculated Data**

Mode	Frequency (MHz)	Antenna Gain		Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G Wi-Fi	2412-2462	3.71	2.35	18.5	70.79	20	0.0331	1
BLE	2402-2480	3.71	2.35	3.0	2.00	20	0.0009	1
BT	2402-2480	3.71	2.35	5.5	3.55	20	0.0017	1

Note: 1. The Tune-up output power was declared by the Manufacturer.

**Result:** The device meets MPE at distance 20cm.

### **Declarations**

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor  $k=2$  with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

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