

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

RF Exposure Evaluation Report

Report Reference No...... MTWC21110879-H

FCC ID.....: 2A4HF-YB-F3

Compiled by

(position+printed name+signature)..: File administrators Alisa Luo

Supervised by

(position+printed name+signature)... Test Engineer Sunny Deng

Approved by

(position+printed name+signature)..: Manager Yvette Zhou

Date of issue...... December 15, 2021

Representative Laboratory Name.: Shenzhen Most Technology Service Co., Ltd.

Nanshan, Shenzhen, Guangdong, China.

Applicant's name...... ZHEJIANG YOUBU SPORTS GOODS CO., LTD.

Jinhua City, Zhejiang Province, China

Test specification/ Standard: 47 CFR Part 1.1307

47 CFR Part 2.1093

TRF Originator Shenzhen Most Technology Service Co., Ltd.

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Test item description: Electric treadmill

Trade Mark N/A

Manufacturer ZHEJIANG YOUBU SPORTS GOODS CO., LTD.

Model/Type reference...... YB-F3

Listed Models N/A

Modulation Type GFSK

Operation Frequency...... From 2402MHz to 2480MHz

Hardware Version..... FS-BT-D2

Software Version V4.2

Rating AC 100-125V, 50-60Hz, 800W

Result.....: PASS

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TEST REPORT

Equipment under Test : Electric treadmill

Model /Type : YB-F3

Listed Models : N/A

Remark N/A

Applicant : ZHEJIANG YOUBU SPORTS GOODS CO., LTD.

Address : No.9 Liunan Road, Niubeijin Industrial Zone, Wuyi County, Jinhua

City, Zhejiang Province, China

Manufacturer : ZHEJIANG YOUBU SPORTS GOODS CO., LTD.

Address : No.9 Liunan Road, Niubeijin Industrial Zone, Wuyi County, Jinhua

City, Zhejiang Province, China

Test Result:	PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2021.12.15	Initial Issue	Alisa Luo

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2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

Table 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)				
(A) Lim	(A) Limits for Occupational/Controlled Exposures							
0.3–3.0	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6				
(B) Limits for General Population/Uncontrolled Exposure								
0.3–1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30				

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R 2) Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

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2.1.3 EUT RF Exposure

Measurement Data

BLE

GFSK					
Test channel	Peak Output Power (dBm)	Tune up tolerance	Maximum tune-up Power		
	,	(dBm)	(dBm)		
Lowest(2402MHz)	4.521	4.521±1	5.521		
Middle(2440MHz)	5.810	5.810±1	6.810		
Highest(2480MHz)	5.823	5.823±1	6.823		

Worst case: GFSK				
Maximum Peak Conducted Output Power (mW)	Antenna gain (dBi)	Calculated value	Exclusion threshold	SAR Test Exclusion
4.812	-0.58	0.000838	1.0	Yes

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BT classic

Di diaddio				
GFSK				
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power	
	(dBm) Table up tolerance (dBm)		(dBm)	
Lowest(2402MHz)	5.462	5.462±1	6.462	
Middle(2440MHz)	6.742	6.742±1	7.742	
Highest(2480MHz)	6.732	6.732±1	7.732	

π /4DQPSK					
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		
			(dBm)		
Lowest(2402MHz)	4.261	4.261±1	5.261		
Middle(2440MHz)	5.601	5.601±1	6.601		
Highest(2480MHz)	5.813	5.813±1	6.813		

8DPSK					
Test channel	Peak Output Power	Tune up tolerance (dBm)	Maximum tune-up Power		
1 est chamier	(dBm)		(dBm)		
Lowest(2402MHz)	3.951	3.951±1	4.951		
Middle(2440MHz)	5.562	5.562±1	6.562		
Highest(2480MHz)	5.712	5.712±1	6.712		

Worst case: GFSK				
Maximum Peak Conducted Output Power (mW)	Antenna gain (dBi)	Exclusion threshold	SAR Test Exclusion	
5.946	-0.58	0.001	1.0	Yes

.....THE END OF REPORT.....