

RF EXPOSURE EVALUATION REPORT

Application No.:	GZCR2208001063HS
Applicant:	Shenzhen Xinbeidi Technology Co., Ltd
Address of Applicant:	5th Floor, Building 2, Meiran Industrial Building, No. 7, Yannan Road, Huaqiang North Street, Futian District, Shenzhen, Guangdong Province
Manufacturer:	XIAMEN MYDO SPORTS EQUIPMENT CO., LTD.
Address of Manufacturer:	NO.30 BANNAN ROAD, DONGFU STREET, HAICANG DISTRICT, XIAMEN, CHINA
Factory:	XIAMEN MYDO SPORTS EQUIPMENT CO., LTD.
Address of Factory:	NO.30 BANNAN ROAD, DONGFU STREET, HAICANG DISTRICT, XIAMEN, CHINA
Equipment Under Test (EUT):	
EUT Name:	MOTORIZED TREADMILL
Model No.:	TR03, TWD146, TWD146A, TWD146B, TWD146C, TWD146D, TWD146E, TWD146 *
*	Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Standard(s) :	47 CFR Part 1.1310 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2022-08-23
Date of Evaluation:	2022-10-12
Date of Issue:	2022-10-17
Evaluation Result:	Pass*

* In the configuration evaluated, the EUT complied with the standards specified above.



Kobe Jian
EMC Laboratory Manager



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SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

EMC-TRF-03 Rev 1.1

Report No.: GZCR220800106304

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Revision Record			
Version	Report No.	Date	Remark
01	GZCR220800106304	2022-10-17	Original

Authorized for issue by			
		Jim Li	
		Jim Li/Project Engineer	
		Vico Cui	
		Vico Cui/Reviewer	

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2 Evaluation Summary

Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	47 CFR Part 1.1310	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

♦ Declaration of EUT Family Grouping:

Model No.: TR03, TWD146, TWD146A, TWD146B, TWD146C, TWD146D, TWD146E, TWD146

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model name & appearance decoration, color.

Therefore, only the model **TR03** was evaluated in this report.

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4 General Information

4.1 Details of E.U.T.

Power supply: AC 110V, 60Hz.
Cable(s): AC mains, 3 wires, 2.0m, unshielded.
For BT BLE.
Operation Frequency: 2402MHz to 2480MHz
Modulation Type: GFSK
Number of Channels: 40
Channel Spacing: 2MHz
Antenna Type: PCB Antenna
Antenna Gain: -0.58 dBi
For 2.4G Proprietary (Rx Only).
Operation Frequency: 2404MHz, 2425MHz, 2454MHz, 2469MHz for remote receiver only
Modulation Type: GFSK
Number of Channels: 4
Antenna Type: PCB Antenna

4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

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No tests were sub-contracted.

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4.3 Facility

The facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IEC60068-2-27 and Rules of procedure IEC60068-2-27, and the relevant IEC60068-2-27 CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None

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5 Technical Requirements Specification

5.1 General Description of Applied Standards

KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.2 RF Exposure Evaluation

5.2.1 Limit & Test Method

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/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
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

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

P_i = 3.1416

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

P_d is 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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5.2.2 Conclusion

Normal use condition for Distance between antenna and body: ≥ 20 cm declared by applicant
Antenna Gain(max): -0.58 dBi declared by applicant for BT BLE antenna.

For BT BLE.

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2402	0.875	-5.59	0.276	0.0005	1	Complies
2441	0.875	-4.67	0.341	0.0006	1	Complies
2480	0.875	-4.79	0.332	0.0006	1	Complies

So, SAR report is not required.

Note: Refer to report No. GZCR220800106302 for EUT test Max Conducted Peak Output Power.

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6 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for Report GZCR220800106302

- End of the Report -

