

TEST REPORT

Application No.:	GZCR2412001469HS
Applicant:	Health In Motion LLC
Address of Applicant:	3300 Horseless Carriage Drive, Norco, CA 92860, United States of America
Manufacturer:	SHUHUA SPORTS CO., LTD
Address of Manufacturer:	SHICHUN INDUSTRIAL PARK, CHIDIAN, JINJIANG, FUJIAN, CHINA
Factory:	SHUHUA SPORTS CO., LTD
Address of Factory:	SHICHUN INDUSTRIAL PARK, CHIDIAN, JINJIANG, FUJIAN, CHINA
Product Name:	Motorized Treadmill
Model No.:	T5S, T5S-110.1, T5B-110.1 ♣
♣	Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Trade Mark:	Inspire Fitness, CENTR
Standard(s) :	47 CFR Part 1.1310 KDB 680106 D01 v04 KDB 447498 D01 General Radio Frequency Exposure Guidelines v06
Date of Receipt:	2024-12-06
Date of Evaluation:	2025-01-22 to 2025-01-22
Date of Issue:	2025-03-13

Evaluation Result:	Pass*
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* In the configuration evaluated, the EUT complied with the standards specified above.



Ricky Liu
Manager



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

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Revision Record			
Version	Report No.	Date	Remark
01	GZCR241200146903	2025-03-13	Original

Authorized for issue by:			
	Luke Lin	Luke Lin/Project Engineer	
	Vico Cui	Vico Cui/Reviewer	



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2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Field Strength	KDB 680106 D01 v04	KDB 680106 Section 3	47 CFR Part 1.1310	Pass
RF Exposure	KDB 447498 D01 v06	KDB 447498 D01 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.: T5S, T5S-110.1, T5B-110.1

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.

Therefore only one model T5S was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 120V 60Hz
Test voltage:	AC 120V 60Hz
Cable(s):	AC mains, 3 wires, 2.0m, unshielded. USB 2.0 Port x1 for charging function.
	Refer to report GZCR241200146902 for WPC detail.
RF character:	Refer to FCC ID 2AOO6-WLT8016 for BLE detail. Refer to FCC ID 2A9G7AI00400 for BT dual mode & 2.4GHz Wi-Fi detail.

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	SAMSUNG	SM-G9508	R28K110W9JV
Mobile Phone	SAMSUNG	SM-G9810	RFCN309Q9QF
Mobile Phone	APPLE	iPhone 12 mini	F71DP3NG0GQY
Wireless Charging Load	/	/	/

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Field Strength	MF:U=0.13dB,EF:U=0.4dB

Remark:
The U_{lab} (lab Uncertainty) is less than U_{etsi} (ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



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4.5 Test Facility

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

- **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.

- **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, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Field strength					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
743 Compact 3m Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2022-10-16	2025-10-15
MAGPy-8H3D+E3D	SPEAG	MAGPy	SEMC060-31	2024-11-15	2025-11-14
MAGPy-DAS	SPEAG	MAGPy	SEMC060-32	2024-11-15	2025-11-14

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2024-06-11	2025-06-10



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6 Radio Spectrum Matter Test Results

6.1 Magnetic field strength

Test Requirement 47 CFR Part 1.1310 & KDB 680106 D01

Test Method: KDB 680106 D01

Limit:

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

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 59.8 % RH Atmospheric Pressure: 1020 mbar

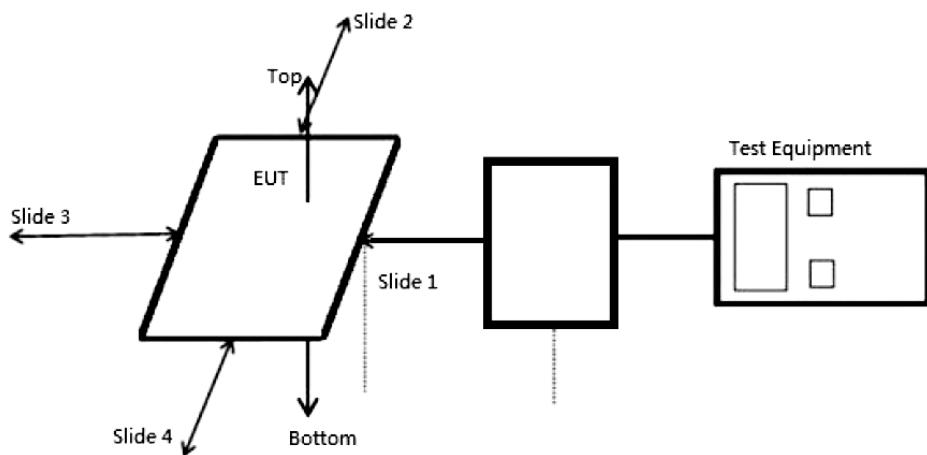


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6.1.2 Test Mode Description

Pre-scan / Mode Final test	Mode Code	Description
Final test	08	This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.

6.1.3 Test Setup Diagram

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6.1.1 Measurement Procedure and Data
Output Voltage= DC 5 V; The max output power = 15 W; Calculation of resistor value=1.67 Ω
Electric Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(V/m)			Limit (V/m)
			unload	Half load	full load	
125.22kHz which is the worst case within the operation frequency range	20	Side 1	1.32	1.35	1.41	<=614
		Side 2	1.66	1.71	1.80	
		Side 3	1.41	1.43	1.65	
		Side 4	1.09	1.02	1.16	
		Top	2.86	2.91	3.09	
		Bottom	0.58	0.54	0.66	

Magnetic Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(A/m)			Limit (A/m)
			unload	Half load	full load	
125.22kHz which is the worst case within the operation frequency range	20	Side 1	0.18	0.19	0.22	<=1.63
		Side 2	0.17	0.18	0.21	
		Side 3	0.19	0.21	0.21	
		Side 4	0.17	0.19	0.20	
		Top	0.23	0.21	0.34	
		Bottom	0.17	0.16	0.18	

Mobile phone has been charged at zero charge, intermediate charge, and full charge.
Electric Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(V/m)			Limit (V/m)
			zero charge	intermediate charge	full charge	
125.22kHz which is the worst case within the operation frequency range	20	Side 1	1.30	1.33	1.39	<=614
		Side 2	1.64	1.69	1.78	
		Side 3	1.39	1.41	1.63	
		Side 4	1.07	1.00	1.14	
		Top	2.84	2.89	3.07	
		Bottom	0.56	0.52	0.64	

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Magnetic Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(A/m)			Limit (A/m)
			zero charge	intermediate charge	full charge	
125.22kHz which is the worst case within the operation frequency range	20	Side 1	0.17	0.18	0.21	<=1.63
		Side 2	0.16	0.17	0.20	
		Side 3	0.18	0.20	0.20	
		Side 4	0.16	0.18	0.19	
		Top	0.22	0.20	0.32	
		Bottom	0.16	0.15	0.17	

*Remark: The test distance 20 cm was the worst case of all the distance declared in user manual by applicant.



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6.2 RF Exposure Evaluation

6.2.1 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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6.2.2 Conclusion

Multiple transmitter-According to Section 7.2 of KDB 447498 D01 General Radio Frequency Exposure Guidelines v06

RF exposure of FCC ID: 2A9G7AI00400

For Bluetooth BLE

Antenna Gain: 2 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S)	Test Result
					(mW/cm ²)	
2402	1.58	1	1.26	0.00040	1	Complies
2440	1.58	1	1.26	0.00040	1	Complies
2480	1.58	1	1.26	0.00040	1	Complies

For Bluetooth Classic

Antenna Gain: 2 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S)	Test Result
					(mW/cm ²)	
2402	1.58	-3	0.50	0.00016	1	Complies
2441	1.58	-3	0.50	0.00016	1	Complies
2480	1.58	-3	0.50	0.00016	1	Complies

For 2.4 GHz Wi-Fi

Antenna Gain: 2 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S)	Test Result
					(mW/cm ²)	
11B						
2412	1.58	22	158.49	0.04997	1	Complies
2442	1.58	22	158.49	0.04997	1	Complies
2462	1.58	22	158.49	0.04997	1	Complies
11G						
2412	1.58	22	158.49	0.04997	1	Complies
2442	1.58	22	158.49	0.04997	1	Complies
2462	1.58	22	158.49	0.04997	1	Complies
11N20						
2412	1.58	22	158.49	0.04997	1	Complies
2442	1.58	22	158.49	0.04997	1	Complies
2462	1.58	22	158.49	0.04997	1	Complies

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RF exposure of FCC ID: 2AO06-WLT8016

For Bluetooth BLE

Antenna Gain: 3 dBi

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
					(mW/cm ²)	
2402	2.00	7.5	5.62	0.00223	1	Complies
2440	2.00	7.5	5.62	0.00223	1	Complies
2480	2.00	7.5	5.62	0.00223	1	Complies

The 2.4GWi-Fi, BT Classic, BT BLE (both modules) & WPC can be transmitted simultaneously, so the result is $0.04997/1+0.00016/1+0.00223/1+0.00040/1+0.34/1.63=0.261<1$, so the device meets the RF exposure and without SAR test.



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7 EUT Constructional Details (EUT Photos)

Refer to Appendix_ Photographs of EUT Constructional Details for GZCR2412001469HS

- End of the Report -



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