

Report No.: GZCR220500062103

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FCC ID: 2API3-10421BT

RF EXPOSURE EVALUATION REPORT

Application No.:GZCR2205000621HSApplicant:R.F.E. ASIA PACIFIC LTD.

Address of Applicant: Room 2608-2609, 1 Hung To Road, Kwun Tong, Hong Kong

Manufacturer: RFE EUROPA LTD.

Address of Manufacturer: 8 Clarendon Drive, Wymbush, Milton Keynes MK8 8ED, England, United

Kingdom

Factory: XIAMEN MYDO SPORTS EQUIPMENT CO., LTD

Address of Factory: 30 BANNAN ROAD, DONGFU STREET, HAICANG DISTRICT, XIAMEN,

CHINA

Equipment Under Test (EUT):

EUT Name: Treadmill

Model No.: TD1251C, T-19 Treadmill - 120V (Bluetooth), AVUS-10421-120BT ♣

Please refer to section 2 of this report which indicates which item was

actually evaluated and which were electrically identical.

Trade Mark:

adidas

Standard(s): 47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

 Date of Receipt:
 2022-05-20

 Date of Evaluation:
 2022-06-24

 Date of Issue:
 2022-08-30

Evaluation Result: Pass*

Kobe Jian EMC Laboratory Manager



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



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Revision Record						
Version	Report No.	Date	Remark			
01	GZCR220500062103	2022-08-30	Original			

Authorized for issue by:		
	Kevin Zhang	
	Kevin Zhang/Project Engineer	
	vius 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.

♣ Model No.: TD1251C, T-19 Treadmill - 120V (Bluetooth), AVUS-10421-120BT

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 outer decoration / color / model name.

Therefore, only one model TD1251C was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply: AC 120-127V 60Hz

Cable(s): About 1.8m×3wires unscreened AC mains cable

Operation Frequency: 2402MHz to 2480MHz
Bluetooth Version: V4.2 for classic only
Modulation Type: GFSK, pi/4DQPSK

Number of Channels: 79 Channel Spacing: 1MHz

Spectrum Spread

Technology: Frequency Hopping Spread Spectrum(FHSS)

Antenna Type: Integral Antenna

Antenna Gain: -0.58dBi

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

Tel: +86 20 82155555 Fax: +86 20 82075059

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, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE 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/cm²)	Averaging time (minutes)				
(A) Limits for Occupational/Controlled Exposures								
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	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: $P_d = (P_{out}*G)/(4*P_i*R^2)$

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 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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5.2.2 Conclusion

Normal use condition for Distance between antenna and body: >=20cm declared by applicant

Antenna Gain: -0.58dBi

For Bluetooth Classic

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2402	0.875	-2.17	0.607	0.00011	1	Complies
2441	0.875	-1.81	0.659	0.00011	1	Complies
2480	0.875	-2.34	0.583	0.00010	1	Complies

So SAR report is not required.

Note: Refer to report No. GZCR220500062102 for EUT test Max Conducted Peak Output Power value.





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6 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2205000621HS

- End of the Report -



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