

Report No.: SHEM210400399203

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1 Cover Page

RF Exposure Evaluation Report

Application No.:SHEM2104003992CRFCC ID:2AYDUTY-DJS00X

Applicant: Jinhua Unisky Tools Co., Ltd.

Address of Applicant: 118 Tianyu Rd., Zhuma Industrial Park, Wucheng District, Jinhua, 321000,

Zhejiang, China

Manufacturer: Jinhua Unisky Tools Co., Ltd.

Address of Manufacturer: 118 Tianyu Rd., Zhuma Industrial Park, Wucheng District, Jinhua, 321000,

Zhejiang, China

Factory: Jinhua Unisky Tools Co., Ltd.

Address of Factory: 118 Tianyu Rd., Zhuma Industrial Park, Wucheng District, Jinhua, 321000,

Zhejiang, China

Equipment Under Test (EUT):

EUT Name: Smart Bike Trainer

Model No.: TY-DJS003
Add Model No.: TY-DJS005
Trade mark: UNISKY

Standard(s): FCC Rules 47 CFR §2.1093

KDB447498 D01 General RF Exposure Guidance v06

Date of Receipt: 2021-04-29

Date of Test: 2021-05-11 to 2021-06-09

Date of Issue: 2021-06-14

Test Result: Pass*

parlan shan

Parlam Zhan E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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



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Revision Record				
Version	Description	Date	Remark	
00	Original	2021-06-14	1	

Authorized for issue by:	
	Bhi Wu
	Bill Wu / Project Engineer
	Darlam Zhan
	Parlam Zhan / Reviewer



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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 12V 5A by adapter
	Adapter:
	Model:ABT050120
	Input:100-240V~50/60Hz
	Output:12V 5A

3.2 Details of E.U.T.

BLE:

Antenna Type:	PCB Antenna
Antenna Gain:	-2dBi(Provided by manufacturer)
Channel Spacing:	2MHz
Modulation Type:	GFSK
Number of Channels:	40
Operation Frequency:	2402MHz to 2480MHz

2.4GHz:

		
Modulation Type:	FSK	
Antenna Gain:	-2dBi(Provided by manufacturer)	
Number of Channels:	1	
Operation Frequency:	2457MHz	



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3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

3.4 Test Facility

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

• CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory Company Number: 8617A

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.



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4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max power of channel)/(min test separation distance)]*[$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- · Power and distance are rounded to the nearest mW and mm
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

The practical use condition for this device is as a body accessories. So the applicable limit is 1-g SAR

 $P_{\text{max}} \le 3.0 \text{*}D_{\text{min}} / \sqrt{f} = 3.0 \text{*}50 / \sqrt{2.480} = 95.25 \text{mW}$



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5 Measurement and Calculation

5.1 Maximum transmit power

The BT Power Data is based on the RF Test Report SHEM210400399201.

Test Data:

Test mode	Channel	Peak Power (dBm)	Peak Power (mW)	
	2402	-1.88	0.65	
GFSK	2440	-1.34	0.73	
	2480	-1.48	0.71	

5.2 RF Exposure Calculation

The Max Conducted Peak Output Power is 0.73mW. The best case gain of the antenna is -2dBi.

According to the formula. calculate the conducted output power test result:

Max conducted output power = 0.73mW < 95.25mW

So the SAR report is not required.

-- End of the Report--



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