

RF EXPOSURE REPORT

Applicant:	RAINVI TECHNOLOGIES PRIVATE LIMITED		
Address:	8-2-283/82/A/321/1 HBS CO OP JUBILEE HILLS HYDERABAD, TELANGANA, INDIA - 500034		
Manufacturer:	Guangzhou Yuandong Smart Sports Technology Co., LTD		
Address:	Room 518, 192 Kezhu Road, Huangpu District, Guangzhou		
Product Description:	Bluetooth Weight Controller		
Brand Name:	NA		
Tested Model:	PBWT-01		
FCC ID:	2BKUS-PBWT-01		
Report No.:	JCF240613031-006		
Received Date:	Aug. 13, 2024		
Tested Date:	Aug. 13, 2024 ~ Sep. 02, 2024		
Issued Date:	Sep. 02, 2024		
Test Standards:	KDB 447498 D01 General RF Exposure Guidance v06		
Test Result:	Pass		
Prepared By:			
<i>Roger Li</i>			
<u>Roger Li/Engineer</u>		Date: Sep. 02, 2024	
Reviewed By:			
<i>Kennys Zhang</i>			
<u>Kennys Zhang/Engineer</u>		Date: Sep. 02, 2024	
Approved By:			
<i>Talent Zhang</i>			
<u>Talent Zhang/Engineer</u>		Date: Sep. 02, 2024	

Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Guangzhou Jingce Testing Technology Co., Ltd. the test report shall not be reproduced except in full.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 02, 2024	Original Report	/

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1. Test Report Declare

Applicant:	RAINVI TECHNOLOGIES PRIVATE LIMITED
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Manufacturer:	Guangzhou Yuandong Smart Sports Technology Co., LTD
Address:	Room 518, 192 Kezhu Road, Huangpu District, Guangzhou
Product Name	Bluetooth Weight Controller
Brand Name:	NA
Model Name:	PBWT-01
Difference Description:	NA

We Declare:

The equipment described above is tested by Guangzhou Jingce Testing Technology Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangzhou Jingce Testing Technology Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests except as provided information by clients.

2. Equipment Under Test

2.1. Description of EUT

EUT* Name:	Bluetooth Weight Controller
Model Number:	PBWT-01
EUT Function Description:	Please refer to the user manual of this device
Power Supply:	DC 3V
Hardware Version:	NA
Software Version:	NA
Radio Specification:	Non-specific short range devices
Operation Frequency:	2405 MHz
Modulation:	GFSK
Data Rate:	250kbps
Antenna Type:	PCB Antenna, MAX. Gain: -3.81 dBi
Product Type:	<input checked="" type="checkbox"/> Portable device <input type="checkbox"/> Mobile device <input type="checkbox"/> Fixed device

Note 1: EUT is the ab. of equipment under test.

Note 2: The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.

2.2. Description of Available Antennas

Test Mode	Transmit and Receive Mode	Description
BT&BLE	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
2.4G WIFI	<input checked="" type="checkbox"/> 1TX, 1RX	ANT 1 and ANT2 can be used as transmitting/receiving antenna.

3. Test Laboratory

Guangzhou Jingce Testing Technology Co., Ltd.

Add.: No.10, Hefeng No.1 street, Huangpu District, Guangzhou, Guangdong, People's Republic of China

Association for Laboratory Accreditation(A2LA). Certificate Number: 6594.03

FCC Designation Number: CN1381. Test Firm Registration Number: 486550

IC Test Firm Registration Number: 31808

Conformity Assessment Body identifier: CN0173

4. RF Exposure Measurement

4.1. Requirement

According to 447498 D01 General RF Exposure Guidance v06 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: $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where: $f(\text{GHz})$ is the RF channel transmit frequency in GHz Power and distance are rounded to the nearest mW and mm before calculation The result is rounded to one decimal place for comparison

4.2. Limits for Maximum Permissible Exposure (MPE)

Band	Channel Frequency (MHz)	Limit (mW)	Limit (dBm)
SRD	2405	9.67	9.85

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$

Limit = $[3.0 \cdot (\text{min. test separation distance, mm})] / [\sqrt{f(\text{GHz})}] = (3 \cdot 5) / [\sqrt{2.405(\text{GHz})}] = 9.67\text{mW}$

4.3. Conducted Power

Band	Channel Frequency (MHz)	Average Power (dBm)
SRD	2405	4.69

5. RF Exposure Calculation

We used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.

Band	Channel Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	PASS/FAIL
SRD	2405	4.69	-3.81	0.88	9.85	PASS

Then SAR evaluation is not required.

--END--