

Report No.:STS2501035H02

Issued for

Shenzhen Raycome Health Technology Co., Ltd

No.501, Block B, Xinfeng Building, Yangguang Community, Xili Street, Nanshan District, Shenzhen, 518055 China

Draduat Nama:	Automatic Pulsewave Blood Pressure
Product Name:	Monitor

Brand Name: Raycome, Maibobo

Model Name: BP5000B

Series Model(s): N/A

FCC ID: 2BLMA-AUTO002

Test Standards: FCC 47CFR §2.1093

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.



TEST REPORT

Applicant's Name Shenzhei	
Address No.501, E Street, N	Block B, Xinfeng Building, Yangguang Community, Xili anshan District, Shenzhen, 518055 China
Manufacturer's Name Shenzhei	
Address No.501, E Street, N	Block B, Xinfeng Building, Yangguang Community, Xili anshan District, Shenzhen, 518055 China
Product Description	
Product Name Automatic	c Pulsewave Blood Pressure Monitor
Brand Name Raycome	, Maibobo
Model Name BP5000E	
Series Model(s) N/A	
Test Standards FCC 47C 447498 D	FR §2.1093 004 Interim General RF Exposure Guidance v01
	late only to the object tested. This report shall not be ten approval of the ShenZhen STS Test Services Co., Ltd.
Date of Test	
Date of receipt of test item:	06 Jan. 2025
Date (s) of performance of tests	06 Jan. 2025 ~ 09 Jan. 2025
Date of Issue	09 Jan. 2025
Test Result	Pass

Testing Engineer

Aann Bu.

Technical Manager :

(Aaron Bu) jv

(Tony Liu)

TESTING APPROVAL

Authorized Signatory :

Thomas Jany

(Bovey Yang)



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Revision History

Rev.	Issue Date	sue Date Report No.		ssue Date Report No. Effect Page		Contents		
00	09 Jan. 2025	9 Jan. 2025 STS2501035H02		Initial Issue				

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Automatic Pulsewave Blood Pressure Monitor					
Brand Name	Raycome, Maibobo					
Model Name	BP5000B					
Series Model(s)	N/A					
Model Difference	N/A					
Product Description	The EUT is Automatic Pulsewave Blood Pressure MonitorOperation Frequency:2402~2480 MHzModulation Type:GFSKAntenna gain:PCBAntenna Designation:-0.6dBi					
Rating	Input: AC 100-240V 50/60Hz 0.8A Max Output: DC 12.0V 3.0A					
Adapter	Input: AC 100-240V 50/60Hz 0.8A Max Output: DC 12.0V 3.0A					
Hardware Version	V1.0.1.1					
Software Version	V1.0.0.0					

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1093 REQUIREMENT

2.1 TEST STANDARDS

Follow the maximum permissible exposure (MPE) limits specified in 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The gain of the antenna used in the product was extracted from the supplied antenna data sheet and the maximum total power input to the antenna was also measured. Calculate the distance from the product to the MPE limit by the formula.

2.2 LIMIT

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th} (mW) = \begin{cases} ERP_{20 cm} (d/20 cm)^{x} & d \le 20 cm \\ \\ ERP_{20 cm} & 20 cm < d \le 40 cm \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20} cm\sqrt{f}}\right)$$
 and f is in GHz;

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);



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(C) Or using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)
0.3-1.34	1,920 R ² .
1.34-30	3,450 R²/f².
30-300	3.83 R ² .
300-1,500	0.0128 R ² f.
1,500-100,000	19.2R ² .

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For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).
(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of Part 1.1307 for Pth, including existing exempt transmitters and those being added. b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of Part 1.1307 for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth,j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph (b)(3)(i)(C) of Part 1.1307.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure. Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310.



2.3 TEST RESULT

Turn up

Mode	Detector	Turn up Power		
BLE	РК	2±1dBm		

Protocol	Fre. (GHz)	Separation distance(cm)	Max PK power (dBm)	ANT Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Ratio	Result
BLE	2.402	0.5	2.23	-0.6	1.63	-0.52	0.887	2.788	0.318	Pass

Note: 1. The Maxinum power is less than the limit, complies with the exemption requirements.

2. ERP = EIRP - 2.15
