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RF Exposure Evaluation Report

Product: Wrist-type Fully Automatic Digital

Blood Pressure Monitor

Trade mark : N/A

Model/Type reference : SBC45

Serial Number : N/A

Report Number : EED32Q80075802

FCC ID : 2AQVU0047 **Date of Issue** : Feb. 06, 2024

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093

KDB 447498 D04 Interim General RF

Exposure Guidance v01

Test result : PASS

Prepared for:

JOYTECH HEALTHCARE CO., LTD.
No.365, Wuzhou Road, Yuhang Economic Development Zone,
Hangzhou City, 311100 Zhejiang, China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Report No.: EED32Q80075802





Check No.: 7639170124



























































































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Version					(12)	
Version No.	1	Date		Description	on	
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4 General Information

4.1 Client Information

Applicant:	JOYTECH HEALTHCARE CO., LTD.		
Address of Applicant:	No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang, China		
Manufacturer:	JOYTECH HEALTHCARE CO., LTD.		
Address of Manufacturer:	No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang, China		
Factory:	JOYTECH HEALTHCARE CO., LTD.		
Address of Factory:	No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang, China		

4.2 General Description of EUT

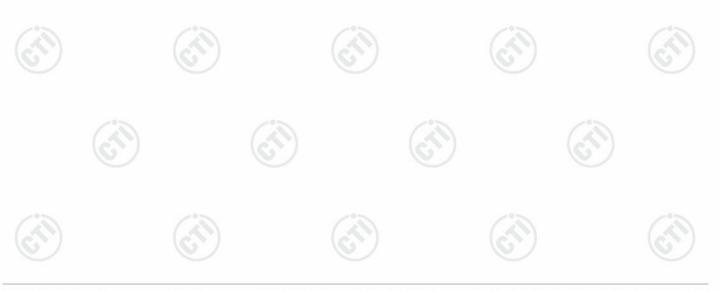
Product Name:	13	Wrist-type Fully Automatic Digita	ist-type Fully Automatic Digital Blood Pressure Monitor			
Model No.(EUT):	(0,)	SBC45		(0,1)		
Trade Mark:		N/A				

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	(31)			
Modulation Type:	GFSK				
Test Power Grade:	Default				
Test Software of EUT:	PhyPlusKit				
Antenna Type:	PCB Antenna				
Antenna Gain:	-1.37612dBi		(0,)		(0,)
Power Supply:	Battery DC 3V				
Sample Received Date:	Jan. 17, 2024				
Sample tested Date:	Jan. 17, 2024 to Jan. 29, 2024	(3)		(3)	

Remark

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.







4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer





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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

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

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{\text{th}} (\text{mW}) = ERP_{20 \text{ cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B. 1)

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.





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5.1.3 EUT RF Exposure Evaluation

For Stand alone:

For Bluetooth LE:

8	Frequency	Available maximum time-	Antenna	ERP	Available maximum tim	Limit	Result
9	(MHz)	averaged power	gain	(dBm)	e-averaged power	(mW)	()
-		(dBm)	(dBi)		(mW)		
	2402	-0.34	-1.37612	-3.86612	0.925	≤2.7880	PASS

Note:

- ①EIRP=Available maximum time-averaged power+Antenna gain;
- ②ERP=EIRP-2.15;
- ③According to § 1.1307(b)(3)(i)(B),RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).
- 4) The estimation distance is 0.5cm.
- ⑤The test data please refer to the report of EED32Q80075801 and only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***

