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RF Exposure Evaluation Report

Product : Arm-type Fully Automatic Digital Blood

Pressure Monitor

Trade mark : N/A

Model/Type reference : DBP-6294B, DBP-6295B,

DBP-6296B

Serial Number : N/A

Report Number : EED32O81897802

FCC ID : 2AQVU0038

Date of Issue : Dec. 20, 2022

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1093

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, Zhejiang, 311100, China

Prepared by:

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2 Version

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

4.2 General Description of EUT

Product Name:	uct Name: Arm-type Fully Automatic Digital Blood Pressure Monitor		
Model No.(EUT):	DBP-6294B, DBP-6295B, DBP-6296B	(6,2)	
Test Model No.:	DBP-6294B		
Trade Mark:	N/A		
Device type:	Portable		

4.3 Product Specification subjective to this standard

2402MHz~2480	MHz				
GFSK					
Default					
PhyPluskit	(0,)	(0,)	(0,		
PCB antenna					
0dBi					
Adapter	Input:100-240VAC,50/60	0Hz,0.2A			
Battery 4.5V					
Nov. 29, 2022					
Nov. 29, 2022 to Dec. 03, 2022					
	GFSK Default PhyPluskit PCB antenna OdBi Adapter Battery 4.5V Nov. 29, 2022	Default PhyPluskit PCB antenna 0dBi Adapter Model:UE05LU4-050106 Input:100-240VAC,50/66 Output:5.0V——1.0A,5.0 Battery 4.5V Nov. 29, 2022	GFSK Default PhyPluskit PCB antenna 0dBi Adapter Model:UE05LU4-050100SPA Input:100-240VAC,50/60Hz,0.2A Output:5.0V—— 1.0A,5.0W Battery 4.5V Nov. 29, 2022		

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.

Model No.:DBP-6294B, DBP-6295B, DBP-6296B

Only the model DBP-6294B was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models. In addition to the shell size, the LCD screen size is different.















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

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 BLE

3			Max.			/			(3)
	Frequency (MHz)	Separation distance (cm)	Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
	2402	0.50	2.22	0	2.22	0.07	1.016	2.788	PASS

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15
- ③Only 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 **



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