

RF Exposure Evaluation Report

Product : Arm-type Fully Automatic Blood Pressure Monitor
Trade mark : N/A
Model/Type reference : DBP-62F4L, DBP-62F4B,
DBP-62F4B-P, DBP-62F4L-P
Serial Number : N/A
Report Number : EED32R80170402
FCC ID : 2AQVU0053
Date of Issue : Apr. 03, 2025
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, 311100 Hangzhou, Zhejiang Province, PEOPLE'S
REPUBLIC OF CHINA**

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1 Version

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3 General Information

3.1 Client Information

Applicant:	JOYTECH HEALTHCARE CO., LTD.
Address of Applicant:	NO.365, Wuzhou Road, 311100 Hangzhou, Zhejiang Province, PEOPLE'S REPUBLIC OF 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, 311100 Hangzhou, Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA

3.2 General Description of EUT

Product Name:	Arm-type Fully Automatic Blood Pressure Monitor
Model No.:	DBP-62F4L, DBP-62F4B, DBP-62F4B-P, DBP-62F4L-P
Test Model No.:	DBP-62F4L
Trade mark:	N/A

3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Modulation Type:	GFSK	
Test Power Grade:	Default	
Test Software of EUT:	PhyPlusKit.exe	
Antenna Type:	PCB Antenna	
Antenna Gain:	-1.37dBi	
Power Supply:	Adapter:	Model: MPSGS0501000 Input: 100-240V ~50/60Hz 0.25A Output: 5.0V, 1.0A, 5.0W
	Battery:	DC 3.7V
Sample Received Date:	Feb. 21, 2025	
Sample tested Date:	Feb. 21, 2025 to Mar. 08, 2025	
Remark: Model No.: DBP-62F4L, DBP-62F4B, DBP-62F4B-P, DBP-62F4L-P Only the model DBP-62F4L was tested, their electrical circuit design, layout, components used and internal wiring are identical, Only the battery supply is different. The DBP-62F4L and DBP-62F4L-P are powered by lithium batteries. and the DBP-62F4B, DBP-62F4B-P is powered by Alkaline dry batteries.		

3.4 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

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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 P_{th} (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). P_{th} is given by Formula

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

where

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

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

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

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.

4.1.2 Test Procedure

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

4.1.3 EUT RF Exposure Evaluation

For Stand alone:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
2402	0.5	1.28	-1.37	-2.24	0.597	2.7877	0.21416	Pass

Note:

① EIRP=conducted power+antenna gain;

② $ERP = EIRP - 2.15$;

③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;

④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;

⑤ The estimation distance is 0.5cm;

⑥ The test data please refer to the report of EED32R80170401 and only the worst case data was recorded in the report.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***