

## RF Exposure Evaluation Report

**Product** : ECG Blood Pressure Monitor  
**Trade mark** : N/A  
**Model/Type reference** : DBP-6675B  
**Serial Number** : N/A  
**Report Number** : EED32Q81375302  
**FCC ID** : 2AQVU0051  
**Date of Issue** : Dec. 12, 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, Hangzhou City, 311100 Zhejiang, China**

Prepared by:

**Centre Testing International Group Co., Ltd.**

**Hongwei Industrial Zone, Bao'an 70 District,**

**Shenzhen, Guangdong, China**

**TEL: +86-755-3368 3668**

**FAX: +86-755-3368 3385**

Compiled by:

*Keven Tan.*

Keven Tan

Reviewed by:

*Frazer. Li*

Frazer Li

Approved by:

*Aaron Ma*

Aaron Ma

Date:

Dec. 12, 2024



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1 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
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|             |               |             |
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### 3 General Information

#### 3.1 Client Information

|                          |                                                            |
|--------------------------|------------------------------------------------------------|
| Applicant:               | JOYTECH HEALTHCARE CO., LTD.                               |
| Address of Applicant:    | No.365, Wuzhou Road, Hangzhou City, 311100 Zhejiang, China |
| Manufacturer:            | JOYTECH HEALTHCARE CO., LTD.                               |
| Address of Manufacturer: | No.365, Wuzhou Road, Hangzhou City, 311100 Zhejiang, China |

#### 3.2 General Description of EUT

|               |                            |
|---------------|----------------------------|
| Product Name: | ECG Blood Pressure Monitor |
| Model No.:    | DBP-6675B                  |
| 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:         | -1.376dBi                                                                                                                                                                                    |                            |
| Power Supply:         | Battery:                                                                                                                                                                                     | DC 4.5V(3 * AAA batteries) |
| Sample Received Date: | Sep. 11, 2024                                                                                                                                                                                |                            |
| Sample tested Date:   | Sep. 11, 2024 to Sep. 20, 2024                                                                                                                                                               |                            |
| 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. |                            |

### 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 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

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

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 ERP20cm 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<br>(MHz) | Estimation<br>distance<br>(cm) | Max. Conducted<br>Output power<br>(dBm) | Antenna<br>Gain<br>(dBi) | ERP<br>(dBm) | ERP<br>(mW) | Limit<br>(mW) | MPE<br>ratio | Result |
|--------------------|--------------------------------|-----------------------------------------|--------------------------|--------------|-------------|---------------|--------------|--------|
| 2402               | 0.5                            | 0.19                                    | -1.376                   | -1.96        | 0.6368      | 2.7877        | 0.2284       | 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 EED32Q81375301 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 \*\*\*