

# RF Exposure Evaluation Report

<b>Product</b>	: Dynamic ECG recorder
<b>Trade mark</b>	: N/A
<b>Model/Type reference</b>	: EPatch-B, EPatch-A, EHL-1B, EHL-1A
<b>Serial Number</b>	: N/A
<b>Report Number</b>	: EED32P80730402
<b>FCC ID</b>	: A49EPATCH-B
<b>Date of Issue</b>	: Aug. 16, 2023
<b>Test Standards</b>	: 47 CFR Part 1.1307 47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093 447498 D04 Interim General RF Exposure Guidance v01
<b>Test result</b>	: PASS

Prepared for:

**Shenzhen Creative Industry Co., Ltd.**  
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**Songbai Road, Xili Street, Nanshan District,**  
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Prepared by:

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Date:

Aug. 16, 2023



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**1 Version**

Version No.	Date	Description
00	Aug. 16, 2023	Original

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### 3 General Information

#### 3.1 Client Information

Applicant:	Shenzhen Creative Industry Co., Ltd.
Address of Applicant:	Floor 5, BLD 9, Baiwangxin High-Tech Industrial Park, Songbai Road, Xili Street, Nanshan District, 518110 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Manufacturer:	Shenzhen Creative Industry Co., Ltd.
Address of Manufacturer:	Floor 5, BLD 9, Baiwangxin High-Tech Industrial Park, Songbai Road, Xili Street, Nanshan District, 518110 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

#### 3.2 General Description of EUT

Product Name:	Dynamic ECG recorder	
Model No.:	EPatch-B, EPatch-A, EHL-1B, EHL-1A	
Test Model No.:	EPatch-B	
Hardware Version:	V3	
Software Version:	V1.0	
Trade mark:	N/A	
Device type:	Portable	
Operation Frequency:	2402MHz~2480MHz	
Modulation Type:	GFSK	
Transfer Rate:	<input checked="" type="checkbox"/> 1Mbps <input checked="" type="checkbox"/> 2Mbps	
Number of Channel:	40	
Antenna Type:	Chip Antenna	
Antenna Gain:	3.19dBi	
Max Conducted Peak Output Power:	-0.12dBm The Max Conducted Peak Output Power data refer to the report EED32P80730401	
Power Supply:	USB port:	DC 5V
	Battery:	DC 3.8V
Test Voltage:	DC 3.8V	
Sample Received Date:	May. 26, 2023	
Sample tested Date:	May. 26, 2023 to Jun. 17, 2023	
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.	

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### 3.3 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

### 3.4 Deviation from Standards

None.

### 3.5 Abnormalities from Standard Conditions

None.

### 3.6 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:****For BLE**

Frequency (MHz)	Separation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2480	0.5	-0.12	3.19	3.07	0.92	1.236	2.717	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 \*\*\***