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# RF Exposure Evaluation Report

**Product** : Digital Thermometer

Trade mark : N/A

Model/Type reference : DMT-4775p, DMT-4773p,

DMT-4765p, DMT-4763p, DMT-4775b, DMT-4773b, DMT-4765b, DMT-4763b

Serial Number : N/A

Report Number : EED32Q80499202

FCC ID : 2AQVU0050

Date of Issue : Oct. 23, 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, 311100 Hangzhou, Zhejiang Province,
P.R. of China

Prepared by:

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

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Date: Oct. 23, 2024

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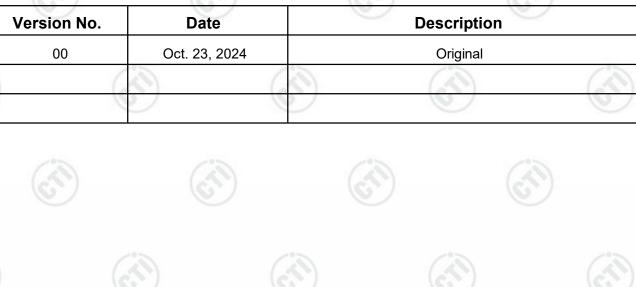


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Version

(Vealer)	(6.50)	
Version No.	Date	Description
00	Oct. 23, 2024	Original















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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, P.R. of China
Manufacturer:	JOYTECH Healthcare Co., Ltd.
Address of Manufacturer:	No. 365, Wuzhou Road, 311100 Hangzhou, Zhejiang Province, P.R. of China
Factory:	JOYTECH Healthcare Co., Ltd.
Address of Factory:	No. 365, Wuzhou Road, 311100 Hangzhou, Zhejiang Province, P.R. of China

## 3.2 General Description of EUT

Product Name:		Digital Thermometer	
Model No.(EUT):		DMT-4775p, DMT-4773p, DMT-4765p, DMT-4763p,	
		DMT-4775b, DMT-4773b, DMT-4765b, DMT-4763b	
Test Model:	(6)	DMT-4775p	(6,2)
Trade Mark:		N/A	

### 3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2	480MHz				
Modulation Type:	GFSK	/				
Test Power Grade:	Default					
Test Software of EUT:	SSCOM V5.	13.1				
Antenna Type:	PCB Antenn	a				
Antenna Gain:	2.02dBi	(6,2)		(6,2)		(6,)
Power Supply:	Battery:	DC 3V				
Sample Received Date:	Aug. 09, 202	24				
Sample tested Date:	Aug. 09, 202	24 to Aug. 11, 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.

Model No.: DMT-4775p, DMT-4773p, DMT-4765p, DMT-4763p, DMT-4775b, DMT-4773b, DMT-4765b, DMT-4763b

Only the model DMT-4775p was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference is only for color and housing.







### 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





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### 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

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

where

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

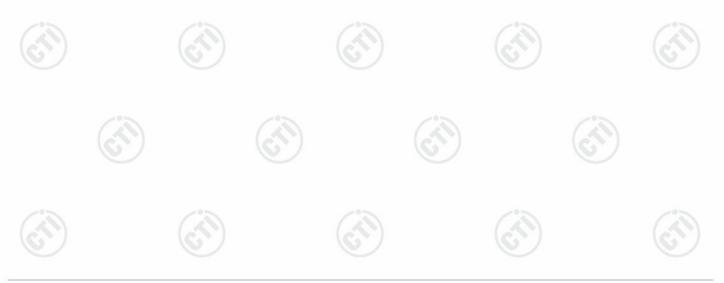
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

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

### 4.1.2 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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### 4.1.3 EUT RF Exposure Evaluation

### For Stand alone:

#### For Bluetooth LE:

0.00	Frequency (MHz)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
	2402	3.98	2.02	6	3.85	2.4266	2.788	PASS

#### Note:

- ①EIRP=conducted power+antenna gain;
- @ERP=EIRP-2.15;
- ③EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) 95.23;
- $4 ERP(mW) = 10^{(ERP (dBm)/10)};$
- ⑤The estimation distance is 0.5cm;
- ©The test data please refer to the report of EED32Q80499201 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 \*\*\*

