

Report No.: EED32K00303802 Page 1 of 7

RF Exposure Evaluation Report

Product: DIGITAL THERMOMETER

Trade mark : N/A

Model/Type reference : DMT-4751, OT 30

Serial Number : N/A

Report Number : EED32K00303802

FCC ID : 2AQVU0002

Date of Issue : Dec. 06, 2018

47 CFR Part 1.1307

Test Standards : 47 CFR Part 2.1093

KDB 447498D01v06

Test result : PASS

Prepared for:

JOYTECH HEALTHCARE CO., LTD.
No. 365, Wuzhou Road, Yuhang Economic Development Zone,
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

Tested by:

Tom-chen

Tom chen

elm

Reviewed by:

Kevin yang

Date: Dec. 06, 2018

kevin lan

Tarda

Sheek Luo

Check No.:3570177792









Page 2 of 7

Report No.: EED32K00303802

2 Version

Version No.	Date	Description	
00	Dec. 06, 2018	Original	
1			Ñ
			5

















































































Page 3 of 7

Report No.: EED32K00303802

3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
3 CONTENTS	
4 GENERAL INFORMATION	4
4.1 CLIENT INFORMATION	
4.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	4
4.6 ABNORMALITIES FROM STANDARD CONDITIONS	5
4.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER	
5.1 RF EXPOSURE COMPLIANCE REQUIREMENT	6
5.1.2 Limits	6
PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	7



















































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, 311100 Zhejiang, 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, Yuhang Economic Development Zone, Hangzhou city, 311100 Zhejiang, China

4.2 General Description of EUT

Product Name:	DIGITAL THERMOMETER		20%
Model No.(EUT):	DMT-4751, OT 30	(41)	(48)
Test Model No.:	DMT-4751		0
Trade mark:	N/A		
EUT Supports Radios application:	BT 4.0 Single mode, 2402-2480MHz		/15

4.3 Product Specification subjective to this standard

Frequency Range:	2402-2480MHz		
Sample Type:	Portable production		
Test Power Grade:	N/A		
Test Software of EUT:	N/A		
Antenna Type :	PCB Antenna		
Antenna Gain:	0dBi		
Test Voltage:	Button battery (CR 2032) 3V		
Power Supply:	Button battery (CR 2032) 3V		
Test Power Grade:	N/A		
Test Software of EUT:	N/A		
Conducted Peak Output Power:	3.014dBm		
	The Conducted Peak Output Power data refer to the report EED32K00303801		
Firmware version of the sample:	V1.0(manufacturer declare)		
Hardware version of the sample:	Z(manufacturer declare)		
Sample Received Date:	Nov. 09, 2018		
Sample tested Date:	Nov. 12, 2018 to Dec. 05, 2018		

The tested sample(s) and the sample information are provided by the client.

Model No.: DMT-4751, OT 30

Only the model DMT-4751 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, only the model name is different.

Hotline: 400-6788-333 www.cti-cert.com E-mail: info@cti-cert.com Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com









Page 5 of 7

Report No. : EED32K00303802

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



None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.































































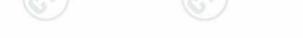












Report No.: EED32K00303802 Page 6 of 7

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\sqrt{f(GHz)}$ ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is 3.014dBm in lowest channel(2.402GHz);

The best case gain of the antenna is 0dBi.

EIRP=3.014dBm + 0dBi = 3.014dBm

3.014dBm logarithmic terms convert to numeric result is nearly 2.002mW

According to the formula. calculate the EIRP test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$

General RF Exposure = $(2.002 \text{mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{GHz}} = 0.6206 \text{ }\bigcirc$

SAR requirement:











Report No.: EED32K00303802 Page 7 of 7

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32K00303801 for EUT external and internal photos.

*** End of 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











