

RF Exposure Evaluation Report

Product : Arm-type Fully Automatic Digital Blood Pressure Monitor
Trade mark : N/A
Model/Type reference : DBP-6293L
Serial Number : N/A
Report Number : EED32O80866202
FCC ID : 2AQVU0027
Date of Issue : Jul. 13, 2022
47 CFR Part 1.1307
47 CFR Part 2.1093
Test Standards : KDB447498D01 General RF Exposure Guidance v06
Test result : PASS

Prepared for:

Joytech healthcare Co.,Ltd
No.365, Wuzhou Road, Yuhang Economic Development Zone,
Hangzhou City, Zhejiang, 311100, 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:

mark.chen.

Mark Chen

Approved by:

Aaron Ma

Aaron Ma

Reviewed by:

Tom Chen

Tom Chen

Date:

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2 Version

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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, Zhejiang, 311100, China
Manufacturer:	Joytech healthcare Co.,Ltd
Address of Manufacturer:	No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, Zhejiang, 311100, China
Factory:	Joytech healthcare Co.,Ltd
Address of Factory:	No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, Zhejiang, 311100, China

4.2 General Description of EUT

Product Name:	Arm-type Fully Automatic Digital Blood Pressure Monitor
Model No.(EUT):	DBP-6293L
Trade Mark:	N/A

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Test Power Grade:	Default
Test Software of EUT:	PhyPlusKit
Antenna Type:	PCB Antenna
Antenna Gain:	0.5 dBi
Power Supply:	AC 120V
Max Conducted Peak Output Power:	-1.4dBm
	The Max Conducted Peak Output Power data refer to the report EED32O80866201
Sample Received Date:	Jun. 17, 2022
Sample tested Date:	Jun. 17, 2022 to Jul. 04, 2022
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.	

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

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

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:

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

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 ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

1) For Bluetooth LE

Measurement Data:

BLE 1M:

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-1.4	-2±1	-1	0.794
Middle(2440MHz)	-1.79	-2±1	-1	0.794
Highest(2480MHz)	-2.79	-2±1	-1	0.794

BLE 2M:

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-1.48	-2±1	-1	0.794
Middle(2440MHz)	-1.82	-2±1	-1	0.794
Highest(2480MHz)	-2.83	-2±1	-1	0.794

Worst case is BLE 1M: GFSK

Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-1.4	-2±1	-1	0.794	0.250	3.0
Middle (2441MHz)	-1.79	-2±1	-1	0.794	0.250	
Highest (2480MHz)	-2.79	-2±1	-1	0.794	0.250	

Conclusion: the calculated value ≤3.0, SAR is exempted.

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32O80866201.

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 ***