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RF Exposure Evaluation Report

Product : Digital Blood Pressure Monitor

Trade mark : microlife

Model/Type reference : BP3KV1-5W

Serial Number : N/A

Report Number : EED32Q81055302 FCC ID : U7I-BP3KV1-5W Date of Issue : Aug. 30, 2024

> : 47 CFR Part 1.1307 47 CFR Part 2.1093

Test Standards KDB447498D01 General RF

Exposure Guidance v06

Test result : PASS

Prepared for:

Microlife Corporation 9F, 431, RuiGuang Road, Nei-Hu Taipei 114 Taiwan, China

Prepared by:

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

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Aug. 30, 2024

Aaron Ma

Check No.: 7739220724



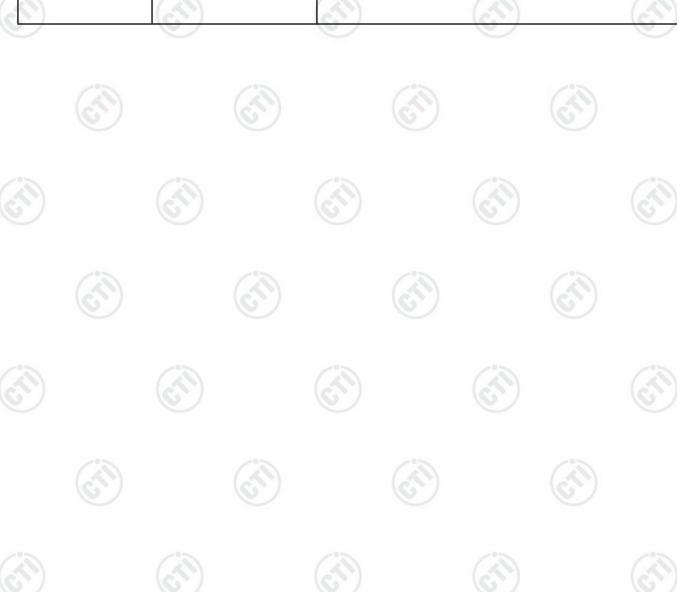






Version

Version No.	Date	Description			
00	Aug. 30, 2024	Original			















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General Information

3.1 Client Information

Applicant:	Microlife Corporation
Address of Applicant:	9F, 431, RuiGuang Road, Nei-Hu Taipei 114 Taiwan, China
Manufacturer:	ONBO Electronic (Shenzhen) Co., Ltd.
Address of Manufacturer:	No.138, Huasheng Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China
Factory:	ONBO Electronic (Shenzhen) Co., Ltd.
Address of Factory:	No.138, Huasheng Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China

3.2 General Description of EUT

Product Name:	Digital Blood Pressure Monitor	
Test Model No.:	BP3KV1-5W	17.40
Trade mark:	microlife	
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location	(0,
Power Supply:	Batteries: 4xAA DC 1.5V	
Test Voltage:	DC 6V	
Sample Received Date:	Dec. 24, 2021	
Sample tested Date:	Dec. 24, 2021 to Dec. 27, 2021	(6,7.)

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

This report changed the adapter, canceled the USB function, updated the product photos, retested the Radiated Spurious Emission, other test data come from the report of No. EED32N81431802.

3.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz			
Modulation Technique:	DSSS			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Modulation Type:	GFSK	6	(0,	
Number of Channel:	40			
Test Power Grade:	Default			
Software Version:	nRFgo Studio	/		
Antenna Type and Gain:	Type: Chip Antenna Gain: 3dBi	((6)















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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

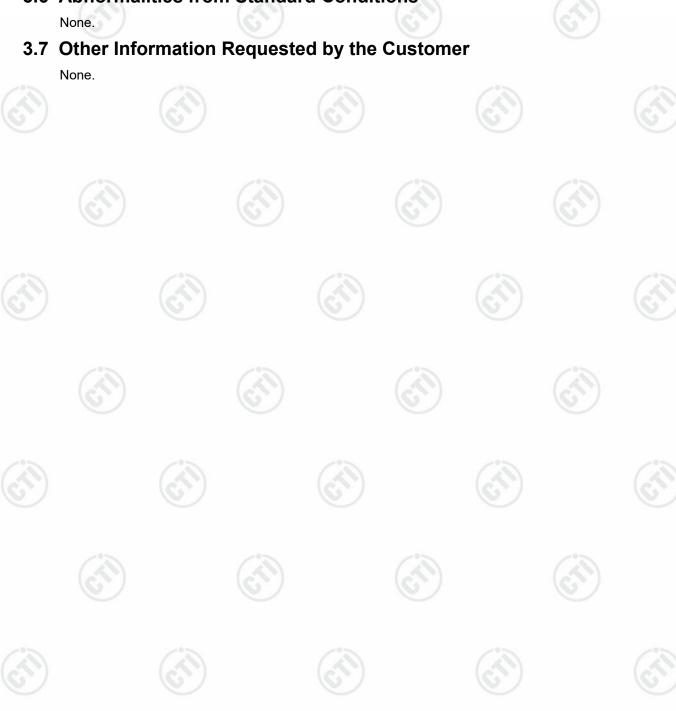
Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions



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4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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.

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:

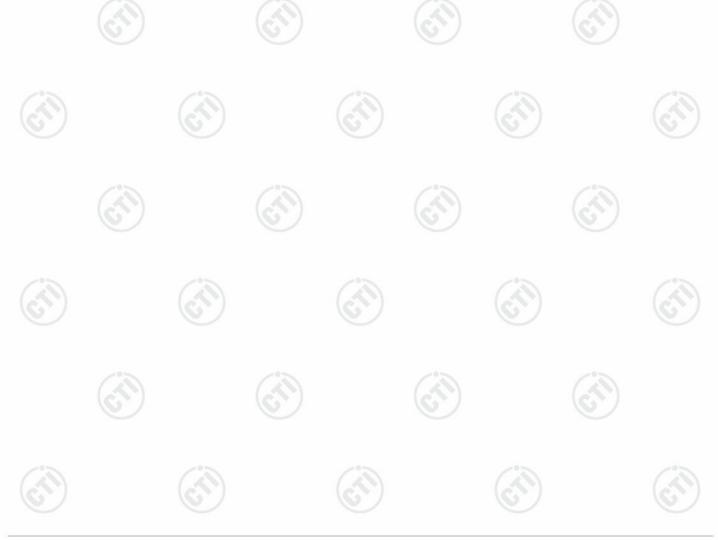
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

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





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4.1.2 EUT RF Exposure

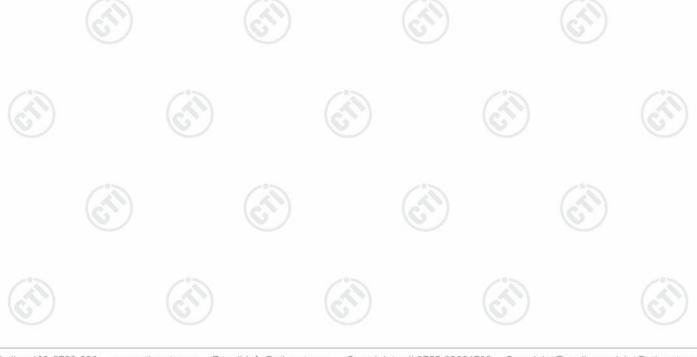
1) For BLE

Measurement Data

mododi omone Bata					
GFSK mode					
Test channel	Peak Output Power Tune up tolera		Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	0.3	1±1	2	1.585	
Middle(2440MHz)	0.86	1±1	2	1.585	
Highest(2480MHz)	1.04	1±1	2	1.585	

Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated	Exclusion
			(dBm)	(mW)	value	threshold
Lowest (2402MHz)	0.3	1±1	2	1.585	0.5	
Middle (2440MHz)	0.86	1±1	2	1.585	0.5	3.0
Highest (2480MHz)	1.04	1±1	2	1.585	0.5	6

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32Q81055301.











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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32Q81055301 for EUT external and internal photos.

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.

