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RF Exposure Evaluation Report

Product : Digital Blood Pressure Monitor

Trade mark : microlife

Model/Type reference : BP3SK1-3B, WatchBP Office

Serial Number : N/A

Report Number : EED32L00199702 FCC ID : U7I-BP3SK1-3B

Date of Issue : Aug. 21, 2019

Test Standards : 47 CFR Part 1.1307 47 CFR Part 2.1093

KDB447498D01 General RF Exposure

Guidance v06

Test result : PASS

Prepared for:

Microlife Corporation 9F, 431, RuiGuang Road, NeiHu Taipei 11492, Taiwan

Prepared by:

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Date:

Aug. 21, 2019

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Check No.:3970397532









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2 Version

Version No.	Date		Description	
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4 General Information

4.1 Client Information

Applicant:	Microlife Corporation	
Address of Applicant:	9F, 431, RuiGuang Road, NeiHu Taipei 11492, Taiwan	
Manufacturer:	ONBO Electronic (Shenzhen) Co., Ltd.	
Address of Manufacturer:	No.138, Huasheng Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China	(0)
Factory:	ONBO Electronic (Shenzhen) Co., Ltd.	
Address of Factory:	No.138, Huasheng Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China	

4.2 General Description of EUT

Product Name:	Digital Blood Pressure Monitor
Model No.(EUT):	BP3SK1-3B, WatchBP Office
Trade Mark:	microlife
EUT Supports Radios application	BT4.2 Single mode:2402-2480MHz

4.3 Product Specification subjective to this standard

1 20 1			
Frequency Range:	2402MHz~248	0MHz	
Modulation Type:	GFSK		
Number of Channels:	40		
Test Power Grade:	Default (manuf	acturer declare)	
Test Software of EUT:	N/A		
Antenna Type:	Internal Antenr	na	
Antenna Gain:	0dBi		
Power Supply:	AC Adapter	SWITCHING POWER ADAPTOR MODEL NO: UES18LCP-075200SPA INPUT: 100-240V~50/60Hz, 500mA OUTPUT: 7.5V=2.0A	
	Battery	NIMH Battery: GPRHC252C236 GP250AAHC4BMXZ Voltage:4.8V Capacity: 2400mAh	
	-3.686dBm		
Max Conducted Peak Output Power:	The Max Conducted Peak Output Power data refer to the report EED32L00199701		
Sample Received Date:	Jul. 25, 2019		
Sample tested Date:	Jul. 25, 2019 to	o Aug. 20,2019	
The tested sample(s) and the	sample informa	ation are provided by the client.	









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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.



















































































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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)] $\sqrt{f(GHz)} \le 3.0$ 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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5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is 0.63 dBm in highest channel(2.480GHz);

The best case gain of the antenna is 0 dBi.

EIRP= -3.686dBm + 0dBi = -3.686 dBm

-3.686 dBm logarithmic terms convert to numeric result is nearly 0.43mW

According to the formula. calculate the EIRP test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

General RF Exposure = $(0.43\text{mW} / 5 \text{ mm}) \text{ x } \sqrt{2.480\text{GHz}} = 0.213 \text{ }$

SAR requirement:

S = 3.0

(1) < (2).

2;

So the SAR report is not required. utput Power Into Antenna & RF Exposure Evaluation Distance:















































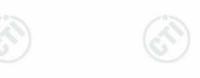












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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00199701 for EUT external and internal photos.

*** End of Report ***

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