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RF Exposure Evaluation Report

Digital Blood Pressure Monitor **Product**

microlife Trade mark

BP3KF1-3B,BP3KT1-4B Model/Type reference

Serial Number

Report Number EED32N81315702 FCC ID U7I-BP3KF1-3B Date of Issue Jan. 19, 2022

: 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, NeiHu Taipei 11492, Taiwan

Prepared by:

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

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Compiled by:

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Reviewed by:

Date:

Aaron Ma

Jan. 19, 2022

David Wang

Check No.:2547061221











1 Version

	Description
00 Jan. 19, 2022	Original















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General Information

3.1 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
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.:	BP3KF1-3B
Trade mark:	microlife
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Power Supply:	AC Adapter:100~240V-50/60Hz 0.3A OUTPUT:6V0.6A Battery: 4xAAA 1.5V
Test Voltage:	AC 120V
Sample Received Date:	Dec. 07, 2021
Sample tested Date:	Dec. 07, 2021 to Dec. 15, 2021
2	

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.

Model/Type reference:BP3KF1-3B,BP3KT1-4B.

Only the model BP3KF1-3B was tested, confirm that any of our production units bearing the following model numbers are identical in circuitry and electrical, mechanical and PCB layouts; the only differences are the model name, dimension and the construction of appearance for trading purpose.

3.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz		
Modulation Technique:	DSSS	C.	
Modulation Type:	GFSK	(672)	(67)
Number of Channel:	40		
Test Power Grade:	Default		
Software Version:	nRFgo Studio		
Antenna Type and Gain:	Type: Ceramic antenna Gain: 0dBi		













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3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

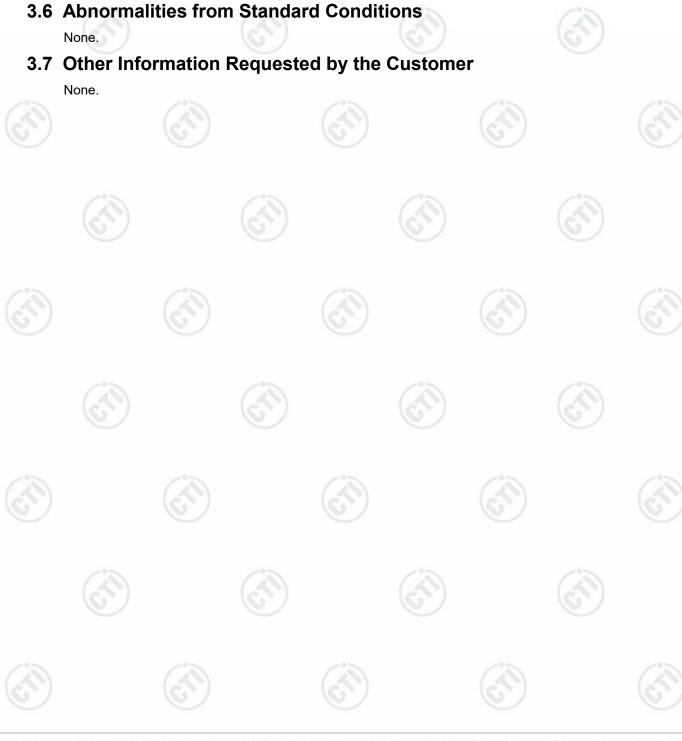
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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.







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:

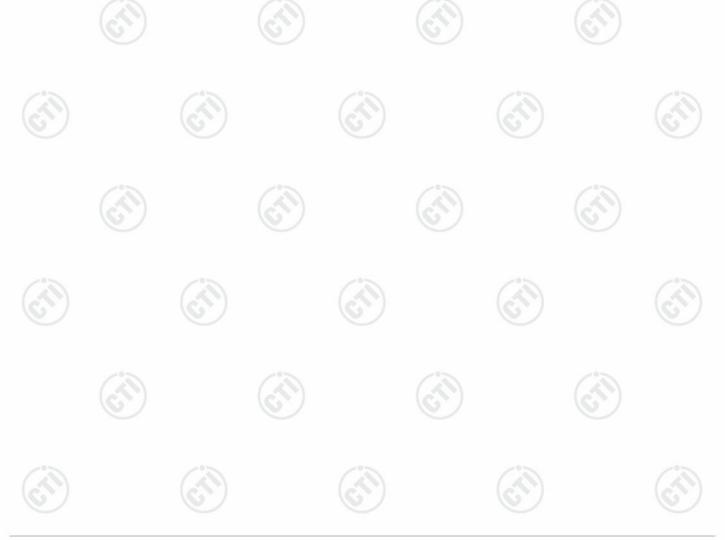
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

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 ≤ 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





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4.1.2 EUT RF Exposure

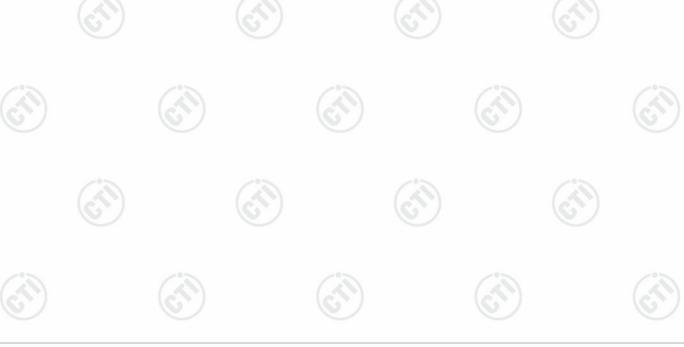
1) For BLE

Measurement Data

modouromont Data						
GFSK mode						
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power			
	(dBm)	(dBm)	(dBm)	(mW)		
Lowest(2402MHz)	-1.15	-1±1	0	1		
Middle(2440MHz)	-0.84	-1±1	0	1		
Highest(2480MHz)	-1.08	-1±1	0	1		

Channel Channel Channel (dBm)	Conducted	Tune up tolerance	Maximum tune- up Power		Calculated value	Exclusion threshold
	(dBm)	(dBm)	(mW)			
Lowest (2402MHz)	-1.15	-1±1	0	1	0.3	
Middle (2440MHz)	-0.84	-1±1	0	1	0.3	3.0
Highest (2480MHz)	-1.08	-1±1	0	1	0.3	C

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32N81315701.







PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N81315701 for EUT external and internal photos.

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