

Report No.: EED32M00334202

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RF Exposure	Evaluation	Report
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	Product	: Non	-contact Infrared Fo	rehead Thermometer	
	Trade mark	: Micr	olife		
	Model/Type reference	: FR1	MF1-B, NC150 BT		
	Serial Number	: N/A			
	Report Number	: EEC	32M00334202		
	FCC ID	: U7I-	FR1MF1-B		
	Date of Issue Test Standards	: 47 C 47 C KDE	. 01, 2020 CFR Part 1.1307 CFR Part 1.1310 3447498D01 Genera Jance v06	al RF Exposure	
	Test result	: PAS			
		F	Prepared for:		
		Microli	fe Corporation		
	9F, 431, RuiGua	ang Roa	ad, NeiHu Taipei	11492, Taiwan	
		Р	repared by:		
	Centre Tes	ting Int	ernational Grou	p Co., Ltd.	
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	Compiled by: Sunlight	t sun	Reviewed by:	Bin . Lu	(1)
	Sunli	ght Sun		Bill Lu	
2	Arpional Dr. Acron	Ma	Date:	Dec. 01, 2020	
5	2	100			



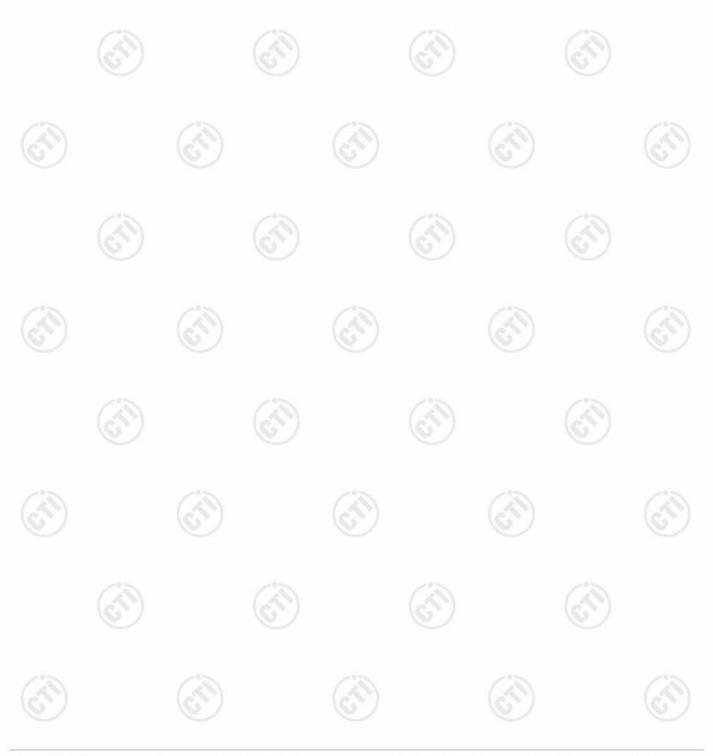


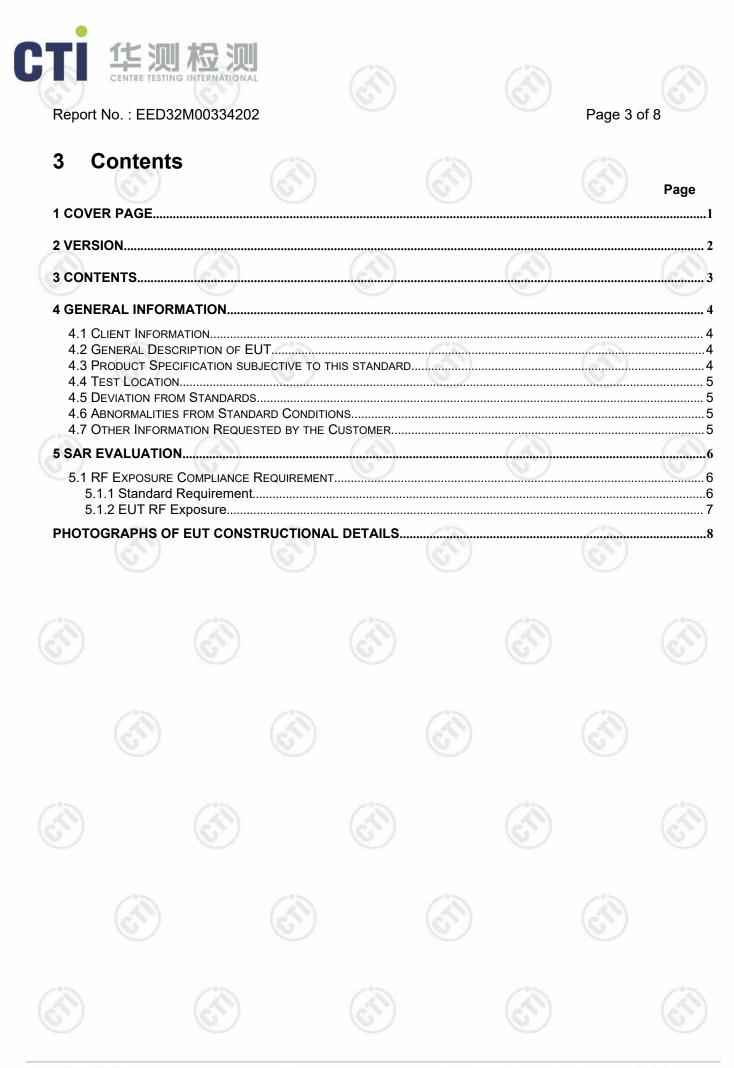


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# 2 Version

Version No.	Date	9	Description	
00	Dec. 01, 2020		Original	
1				(2)
57)	$(\mathbb{C})$	S)	$(\mathbf{G})$	6







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#### **General Information** 4

## 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
	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:	Non-contact Infrared F	Forehead Thermometer	
Model No.(EUT):	FR1MF1-B, NC150 B	Т	
Trade Mark:	Microlife		G
EUT Supports Radios application:	4.0(BLE)	C.	C

### 4.3 Product Specification subjective to this standard

-		
Frequency Range:	2402MHz~2480MHz	
Modulation Type:	GFSK	
Test Power Grade:	Default	
Test Software of EUT:	Default	
Antenna Type:	PCB Antenna	
Antenna Gain:	-2.39dBi	
Power Supply:	DC 3.0V	
May Oan duate d Da als	BT4.0: -4.401dBm	
Max Conducted Peak Output Power:	The Max Conducted Peak Output Power data refer to the report EED32M00334201	
Sample Received Date:	Nov. 16, 2020	
Sample tested Date:	Nov. 16, 2020 to Nov. 24, 2020	

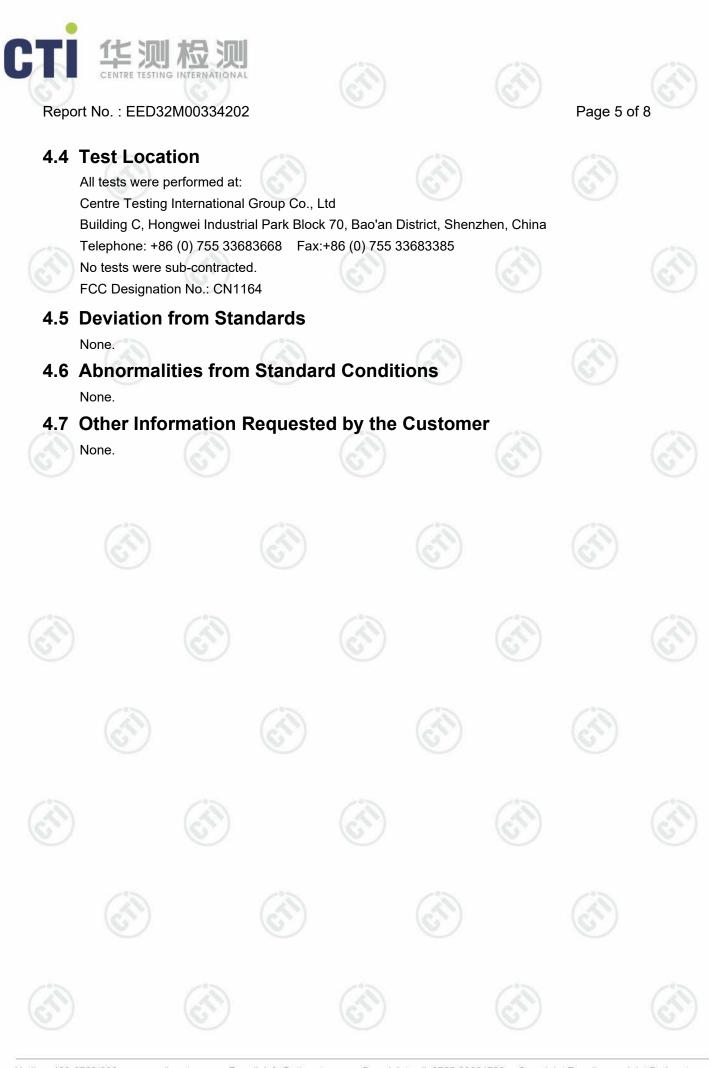
Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified. Model No.: FR1MF1-B, NC150 BT

Only the model FR1MF1-B, NC150 BT was tested, Their electrical circuit design, layout, components used, internal wiring, software and outer decoration are identical, only the model name are different, the tested product has two model names, FR1MF1-B is the market model name; NC150 BT is the factory internal model name.

Hotline: 400-6788-333



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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

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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  $\leq$  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  $\le 7.5$  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 calculation<sup>17</sup> 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 < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion





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## 5.1.2 EUT RF Exposure

The tune-up power is -5.0 dBm +/- 1.0dB, therefore the highest tune-up power is

#### -4.0dBm (0.40mW) @2402 MHz

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion. So,

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#### (0.40mW / 5mm) \* (2.402GHz^0.5)=0.12

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] \* [ $\sqrt{f(GHz)}$ ] = 0.12 < 3.0

Therefore, standalone SAR measurements are not required for both head and body







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# PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32M00334201 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.

End of Report \*\*\*