



REPORT No. : SZ15050144S08

RF EXPOSURE EVALUATION REPORT

APPLICANT : ICON Health & Fitness Inc

PRODUCT NAME : Two sided fashion Men's watch Digital / Analog

MODEL NAME : IFRW115

TRADE NAME : DUO

BRAND NAME : IFIT Solutions

FCC ID : OMC-M14676REV

STANDARD(S) : 47CFR 2.1093
KDB 447498 D01 General RF Exposure Guidance
v05r02

ISSUE DATE : 2015-10-16



SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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Change History		
Issue	Date	Reason for change
1.0	2015-10-16	First edition



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TEST REPORT DECLARATION

Applicant	ICON Health & Fitness Inc
Applicant Address	1500 South 1000 West, Logan, UT. 84321
Manufacturer	NATIONAL ELECTRONICS&WATCH CO.,LTD
Manufacturer Address	15/F, Shing Dao Ind Building 232 Aberdeen Main Road, Aberdeen Hong Kong
Product Name	Two sided fashion Men's watch Digital / Analog
Model Name	IFRW115
Brand Name	IFIT Solutions
HW Version	M14-676DN R4
SW Version	01191
Test Standards	47CFR 2.1093; KDB 447498 D01 General RF Exposure Guidance v05r02
Issue Date	2015-10-16
SAR Evaluation	Not Required

Tested by : Liu Jun
Liu Jun

Reviewed by : Zhu Zhan
Zhu Zhan

Approved by : Zeng Dexin
Zeng Dexin



1. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

1.1. Identification of Applicant

Company Name:	ICON Health & Fitness Inc
Address:	1500 South 1000 West, Logan, UT. 84321

1.2. Identification of Manufacturer

Company Name:	NATIONAL ELECTRONICS&WATCH CO.,LTD
Address:	15/F, Shing Dao Ind Building 232 Aberdeen Main Road, Aberdeen Hong Kong

1.3. Equipment Under Test (EUT)

Model Name:	IFRW115
Trade Name:	DUO
Brand Name:	I-FIT.COM
Hardware Version:	M14-676DN R4
Software Version:	01191
Frequency Bands:	Bluetooth4.0:2402-2480MHz;
Modulation Mode:	Bluetooth4.0: GFSK
Antenna type:	Fixed Internal Antenna
Development Stage:	Identical prototype



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1.3.1. Photographs of the EUT

1. EUT front view



2. EUT rear view





1.3.2. Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
1#	M14-676DN R4	01191

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	47 CFR§2.1093	Radiofrequency Radiation Exposure Evaluation: portable devices
2	KDB 447498 D01v05r02	General RF Exposure Guidance



2. DEVICE CATEGORY AND RF EXPOSURE LIMIT

Per user manual, this device is a Watch. Based on 47CFR 2.1093, this device belongs to portable device category with General Population/Uncontrolled exposure.

Portable Devices:

47CFR 2.1093(b)

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

GENERAL POPULATION / UNCONTROLLED EXPOSURE

47CFR 2.1093(d) (2)

Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.



3. MEASUREMENT OF CONDUCTED PEAK OUTPUT POWER

1. BT 4.0 peak output power

Band	Channel	Frequency (MHz)	Output Power(dBm)
			GFSK
BT	0	2402	-10.62
	39	2441	-11.44
	78	2480	-11.87

4. RF EXPOSURE EVALUATION

The device only incorporates a Bluetooth transmitter, so standalone SAR evaluation is required for Bluetooth and simultaneous SAR is not required.

Standalone transmission SAR evaluation

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation

Distances ≤ 50 mm are determined by:

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

The maximum tune-up limit power is **0.09mW @ 2.402GHz**

The EUT is a watch, so use **5mm** as the most conservative minimum test separation distance,

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = \mathbf{0.03} \leq 3.0$

So SAR evaluation is not required for this device.



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ANNEX A GENERAL INFORMATION

1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, Guangdong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
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2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, Guangdong Province, P. R. China

***** END OF REPORT *****