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District, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 Report No.: SZEM141100614104

Email: ee.shenzhen@sgs.com Page: 1 of 8

SAR Evaluation Report

Application No.: SZEM1411006141CR(SGS GZ NO.:GZME1410000804ME)

Applicant: FUDAKANG INDUSTRIAL CO., LTD.

Manufacturer: FUDAKANG INDUSTRIAL CO., LTD.

Factory: FUDAKANG INDUSTRIAL CO., LTD.

Product Name: Wrist type Blood pressure monitor

Item No.: FT-B13W-BT

FT-B11W, FT-B12W, FT-B13W, FT-B14W, FT-B21Y, FT-B22Y,

Add Item No.: FT-B11W-V, FT-B12W-V, FT-B13W-V, FT-B14W-V, FT-B21Y-

V, FT-B22Y-V, FT-B13W-UR,

FCC ID: 2ADNQFTB13WBT

Standards: 47 CFR Part 1.1307(2013)

47 CFR Part 2.1093 (2013)

KDB447498D01 General RF Exposure Guidance v05

Date of Receipt: 2014-11-10

Date of Test: 2014-11-28 to 2014-11-29

Date of Issue: 2014-12-31

Test Result : PASS*

In the configuration tested, the EUT complied with the standards specified above. This report supersedes our previous report SZEM141100614102, issued on 2014-12-04, which is hereby deemed null and void.

Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2014-12-04		Original

Authorized for issue by:		
Tested By	Eric Fu	2014-11-29
	(Eric Fu) /Project Engineer	Date
Prepared By	Cintin Lu	2014-12-04
	(Linlin Lv) /Clerk	Date
Checked By	Levinger	2014-12-08
	(Kevin Feng) /Reviewer	Date

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4 General Information

4.1 Client Information

Applicant:	FUDAKANG INDUSTRIAL CO., LTD.
Address of Amplicants	No.8 Yinghe Road, Yuanjiangyuan Management Zone, Changping
Address of Applicant:	Town, Dongguan, Guangdong, China
Manufacturer:	FUDAKANG INDUSTRIAL CO., LTD.
A delice a cat Manager activities	No.8 Yinghe Road, Yuanjiangyuan Management Zone, Changping
Address of Manufacturer:	Town, Dongguan, Guangdong, China
Factory:	FUDAKANG INDUSTRIAL CO., LTD.
Address of Footows	No.8 Yinghe Road, Yuanjiangyuan Management Zone, Changping
Address of Factory:	Town, Dongguan, Guangdong, China

4.2 General Description of EUT

Product Name:	Wrist type Blood pressure monitor	
Item No.:	FT-B11W, FT-B12W, FT-B13W, FT-B14W, FT-B21Y, FT-B11W-V, FT-B12W-V, FT-B13W-V, FT-B14W-V, FT-B21Y-V, FT-B22Y-V, FT-B13W-UR, FT-B13W-BT	
Bluetooth Version:	4.1	
Carrier Frequency:	2402MHz~2480MHz	
Modulation Type:	GFSK	
Number of Channel:	40	
Sample Type:	Portable production	
Antenna Type and Gain:	Type :Integral	
	Gain: 2.25dBi	
Battery:	DC 3V (2 "AAA" batteries)	
Domark		

Remark:

Only the item FT-B13W-BT was tested, since the circuit design, PCB layout, electrical components used, internal wiring and functions were identical for the above items, with difference being Item number and outlook appearance.

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4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

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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 v05

4.3.1. 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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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 calculation 17

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

5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is -0.08 dBm in Lowest channel(2.402 GHz);

The best case gain of the antenna is 2.25 dBi

EIRP= -0.08 dBm +2.25 dBi =2.17 dBm

2.17 dBm logarithmic terms convert to numeric result is nearly 1.6482 mW

According to the formula. calculate the EIRP test result:

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

General RF Exposure = $(1.6482 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 0.5109 \text{ }\bigcirc$

SAR requirement:

S= 3.0 ②;

(1) < (2).

So the SAR report is not required.

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5.2 EUT Constructional Details

Refer to Report No. SZEM141100614103 for EUT external and internal photos.

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