



No. 588 West Jindu Road, Songjiang District, Shanghai, China

Telephone: +86 (0) 21 61915666  
 Fax: +86 (0) 21 61915678  
 ee.shanghai@sgs.com

Report No.: SHEM130500089002  
 Page 1 of 11

# 1 Cover Page

## FCC MPE REPORT

<b>Application No.:</b>	SHEM1305000890ME
<b>Applicant:</b>	iHealth Lab Inc.
<b>Equipment Under Test (EUT):</b>	
<b>NOTE:</b> The following sample(s) submitted was/were identified on behalf of the client as	
Product Name:	Wireless Scale Lite
Brand Name:	iHealth
Model:	HS4
Added Model:	N/A
<b>FCC ID:</b>	SLRHS4
<b>IC:</b>	10913A-HS4
<b>Standards:</b>	47 CFR Part 1.1307(2011) 47 CFR Part 2.1093 (2011) KDB447498 D01
<b>Date of Receipt:</b>	May 20, 2013
<b>Date of Test:</b>	June 05, 2013
<b>Date of Issue:</b>	June 28, 2013
<b>Test Result :</b>	<b>PASS*</b>

\* In the configuration tested, the EUT complied with the standards specified above.

**Tony Wu**  
**E&E Section Manager**

**SGS-CSTC (Shanghai) Co., Ltd.**

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.



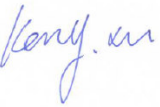
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



## 2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00	/	June 28, 2013	/	Original

<b>Authorized for issue by:</b>			
<b>Engineer</b>		Zenger Zhang _____ <b>Print Name</b>	 _____ <b>Print Name</b>
<b>Clerk</b>		Susie Liu _____ <b>Print Name</b>	 _____ <b>Print Name</b>
<b>Reviewer</b>		Keny Xu _____ <b>Print Name</b>	 _____ <b>Print Name</b>



### 3 Contents

	Page
<b>1 COVER PAGE .....</b>	<b>1</b>
<b>2 VERSION.....</b>	<b>3</b>
<b>3 CONTENTS.....</b>	<b>4</b>
<b>4 GENERAL INFORMATION .....</b>	<b>5</b>
4.1 CLIENT INFORMATION .....	5
4.2 GENERAL DESCRIPTION OF EUT (EQUIPMENT UNDER TEST) .....	5
4.3 TECHNICAL SPECIFICATIONS .....	5
4.4 TEST LOCATION.....	6
4.5 TEST FACILITY .....	6
<b>5 MAXIMUM TRANSMIT POWER.....</b>	<b>7</b>
<b>6 SAR EVALUATION.....</b>	<b>8</b>
6.1 RF EXPOSURE COMPLIANCE REQUIREMENT.....	8
6.1.1 <i>Standard Requirement</i> .....	8
6.1.2 <i>Limits</i> .....	8
6.1.3 <i>EUT RF Exposure</i> .....	10
<b>7 EUT CONSTRUCTIONAL DETAILS .....</b>	<b>11</b>

## 4 General Information

### 4.1 Client Information

<b>Applicant:</b>	iHealth Lab Inc.
<b>Address of Applicant:</b>	719N. Shoreline Blvd. Mountain View, CA 94043
<b>Manufacturer:</b>	iHealth Lab Inc.
<b>Address of Manufacturer:</b>	719N. Shoreline Blvd. Mountain View, CA 94043
<b>Factory:</b>	iHealth Lab Inc.

### 4.2 General Description of EUT (Equipment Under Test)

<b>Product Name</b>	Wireless Scale Lite
<b>Brand Name:</b>	iHealth
<b>Model No:</b>	HS4
<b>Added Model:</b>	N/A
<b>Product Description:</b>	Portable device

### 4.3 Technical Specifications

<b>Operation Frequency:</b>	2402MHz~2480MHz
<b>Modulation Type:</b>	GFSK
<b>Number of Channel:</b>	40
<b>Modulation Technique:</b>	Frequency Hopping Spread Spectrum (FHSS)
<b>Power Supply:</b>	Battery supply
<b>Antenna Type</b>	Integral
<b>Antenna Gain</b>	5.0dBi
<b>Power Supply:</b>	4*1.5V "AAA" Battery Size DC 6V

## 4.4 Test Location

All tests were performed at SGS E&E EMC lab

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.  
Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

## 4.5 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. 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. Date of expiry: 2014-07-26.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2015-02-22.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2014-09-20.

- **VCCI (Member No.: 3061)**

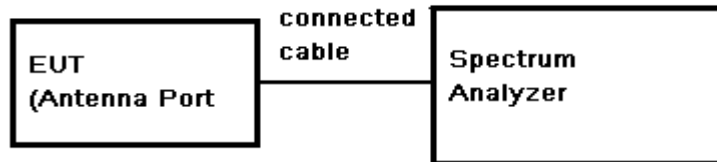
The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868 and C-4336 respectively. Date of Registration: 2012-05-29. Date of Expiry: 2015-05-28.

## 5 Maximum transmit power

**Test Date:** Feb 27, 2013(From RF test Reprot)

**EUT Operation:** Test in fixing frequency operating mode at lowest, middle and highest frequency.

**Test Configuration:**



**Test Results record:**

Test Channel	Modulation	Fundamental Frequency (MHz)	Reading Power (dBm)	Cable Loss (dB)	Output Power	
					(dBm)	(mW)
Lowest	GFSK	2402	-1.45	1.2	-0.25	0.944
Middle	GFSK	2441	-2.59	1.2	-1.39	0.726
Highest	GFSK	2480	-3.59	1.2	-2.39	0.577

## 6 SAR Evaluation

### 6.1 RF Exposure Compliance Requirement

#### 6.1.1 Standard Requirement

15.247(b)(4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### 6.1.2 Limits

According to KDB447498 D01

**Appendix A**

**SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm**

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

MHz	30	35	40	45	50	mm
150	232	271	310	349	387	SAR Test Exclusion Threshold (mW)
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	
1500	73	86	98	110	122	
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	

**Note:** 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g SAR Test Exclusion Thresholds indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.



### 6.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is -0.25dBm(0.944mW) in lowestchannel;

The best case gain of the antenna is 5.0dBi.

5.0dBi logarithmic terms convert to numeric result is nearly 3.162.

According to the formula. calculate the EIRP test result:

$$\text{EIRP} = P \times G = 0.944 \text{ mW} \times 3.162 = 2.98\text{mW} < 10\text{mW}$$

So the SAR report is not required.



## 7 EUT Constructional Details

Refer to the < HS4\_External Photos > & < HS4\_Internal Photos >.

***THE END OF REPORT***