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Report No.: SZEM160700534603  
Page: 1 of 6

## SAR Evaluation Report

**Application No:** SZEM1607005346CR  
**Applicant:** BEWELL CONNECT CORP  
**Manufacturer:** SHENZHEN HEALTHCARE ELECTRONIC TECHNOLOGY CO., LTD.  
**Factory:** SHENZHEN HEALTHCARE ELECTRONIC TECHNOLOGY CO., LTD.  
**Product Name:** MyBabyScale  
**Model No.(EUT):** BW-SCB1  
**Add Model No.:** S2501-BB01BT  
**Trade Mark:** Bewell connect  
**FCC ID:** 2AF8T-BW-SCB1  
**Standards:** 47 CFR Part 1.1307 (2015)  
47 CFR Part 2.1093 (2015)  
KDB447498D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2016-07-07  
**Date of Test:** 2016-07-11  
**Date of Issue:** 2016-07-19

<b>Test Result :</b>	<b>PASS*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang  
EMC Laboratory Manager


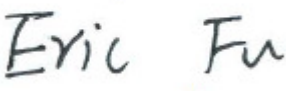
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## 2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2016-07-19		Original

Authorized for issue by:				
				2016-07-11
Tested By		(Bill Chen) /Project Engineer		Date
				2016-07-19
Checked By		(Eric Fu) /Reviewer		Date



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## 4 General Information

### 4.1 Client Information

Applicant:	BEWELL CONNECT CORP
Address of Applicant:	SUITE 410 - 185 ALEWIFE BROOK PARKWAY COMBRIDGE, MA 02138 - USA
Manufacturer:	SHENZHEN HEALTHCARE ELECTRONIC TECHNOLOGY CO., LTD.
Address of Manufacturer:	Block 48, Changxing Industrial Zone, ChangZhen, Gongming Town, Guangming District, Shenzhen,Guangdong, China 518132
Factory:	SHENZHEN HEALTHCARE ELECTRONIC TECHNOLOGY CO., LTD.
Address of Factory:	Block 48, Changxing Industrial Zone, ChangZhen, Gongming Town, Guangming District, Shenzhen,Guangdong, China 518132

### 4.2 General Description of EUT

Product Name:	MyBabyScale
Model No.:	BW-SCB1
Trade Mark:	Bewell connect
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.0 Signal mode
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Portable production
Antenna Type:	Integral
Antenna Gain:	0dBi
Power Supply:	Battery: 3.0 DC (1.5V x 2"AA"Size Batteries)

Remark:

Model No.: BW-SCB1, S2501-BB01BT

Only the model BW-SCB1 was tested, since the circuit design, PCB layout, electrical components used, internal wiring and functions were identical for the above models, only different on color.



### **4.3 Test Location**

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch,  
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.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room 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 and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

### **4.5 Deviation from Standards**

None.

### **4.6 Abnormalities from Standard Conditions**

None.

### **4.7 Other Information Requested by the Customer**

None.



## 5 SAR Evaluation

### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

##### 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  $\leq 50$  mm are determined by:

$$\left[ \frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

$f(\text{GHz})$  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

#### 5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is -2.86dBm in lowest channel(2.402GHz);

The best case gain of the antenna is 0dBi.

EIRP=-2.86dBm + 0dBi =-2.86dBm

-2.86dBm logarithmic terms convert to numeric result is nearly 0.52mW

According to the formula. calculate the EIRP test result:

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

General RF Exposure =  $(0.52\text{mW} / 5 \text{ mm}) \times \sqrt{2.402\text{GHz}} = 0.16$  ①

SAR requirement:

S= 3.0

② ;

① < ②.

So the SAR report is not required.