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# OET Bulletin 65 (MPE)

## Test Report

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Report No.: AGC10091010SZ02F2E

**FCC ID** : YTKH-BOX

**PRODUCT DESIGNATION** : Wireless Telehealth Hub

**BRAND NAME** : Boston Life Labs

**TEST MODEL** : H-Box

**CLIENT** : Boston Life Labs LLC

**DATE OF ISSUE** : Jan.17, 2011

**STANDARD(S)** : OET Bulletin 65

### Attestation of Global Compliance Co., Ltd.

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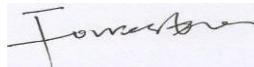
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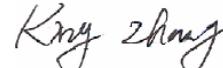
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## 1. TEST RESULT CERTIFICATION

Applicant Name:	Boston Life Labs LLC.
Address:	Cambridge Innovation Center,One Broadway 14th, Cambridge,MA 02142,USA
Manufacturer Name:	Boston Life Labs LLC.(Shenzhen)
Address:	2106C,block C,Tin Lee Central Square,Nanshan District,Shenzhen City.
Product Designation:	Wireless Telehealth Hub
Brand Name:	Boston Life Labs
Model Name:	H-Box
Test Standard	OET Bulletin 65 (Edition 97-01) Supplement C (Edition 01-01)
File Number:	AGC10091010SZ02F2E
Date of Test:	Nov.5,2010~Nov.11,2010

We (AGC), Attestation of Global Compliance Co., Ltd. for compliance with the requirements set forth in the European Standard OET Bulletin 65 (Edition 97-01) Supplement C (Edition 01-01) The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Checked By:   
Forrest Lei Jan.17, 2011

Authorized By   
King Zhang Jan.17, 2011

## 2. TECHNICAL INFORMATION

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

### 2.1 EUT DESCRIPTION

Operation Frequency	824.2MHZ~848.8MHZ,1850.2MHZ~1909.8MHZ
Rated Output Power	32.87dBm for GSM850,30.74dBm for GSM1900
Antenna Designation	Fixed Antenna
Antenna Gain	0.4dBi for GSM850,0.85dBi for GSM1900
Power Supply	DC3.7V by battery(charging by AC120V)

**Note:**

1. For more details, please refer to the User's manual of the EUT.

### **3. RF EXPOSURE MEASUREMENT**

#### **3.1 INTRODUCTION**

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 2.5 cm or more from persons.

The 1992 ANSI/IEEE standard (See Listed limit table) specifies a minimum separation distance of 1cm for performing reliable field measurements to determine adherence to MPE limits.

If the minimum separation distance between a transmitter and nearby persons is more than 2.5 cm under normal operating conditions, compliance with MPE limits may be determined at such distance from the transmitter. When applicable, operation instructions and prominent warning labels may be used to alert the exposed persons to maintain a specified distance from the transmitter or to limit their exposure durations and usage conditions to ensure compliance.

### 3.2 FCC LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE(MPE)

#### LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (Minutes)
0.3 -- 1.34	614	1.63	(100)*	30
1.34 -- 30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30 -- 300	27.5	0.073	0.2	30
300 -- 1500	--	--	f/1500	30
1500 -- 100,000	--	--	1.0	30

\*Note:

1. f=Frequency in MHz \* Plane-wave Equivalent Power Density
2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. See 47 CFR §§2.1091 and 2.1093 on source-based time-averaging requirements for mobile and portable transmitters.

#### **4. CLASSIFICATION OF THE ASSESSMENT METHODS**

The antenna of the product, under normal use condition is at least 0.5m away from the body of the user. Warning statement to the user for keeping at least 50cm separation distance and the prohibition of operating to a person has been printed on the user's manual. So, this product under normal use is located on electromagnetic far field between the human body.

$$S = PG/4\pi R^2$$

**Where:**

**S=power density**

**P=power input to antenna**

**G=power gain of the antenna in the direction of interest relative to an isotropic radiator R=distance to the center of radiation of the antenna**

#### **MPE Calculated Values for Wireless Telehealth Hub**

#### **5. EUT OPERATION CONDITION**

Make the EUT to transmit at lowest, middle and highest channel individually.

## 6. TEST RESULTS

GSM850 Antenna Gain=0.4dBi(Numeric 1),  $\Pi=3.1416$

Frequency	Output Power	Output Power	Power Density	Power Density Limit	Result
MHz	dBm	mW	mW/cm <sup>2</sup>	mW/cm <sup>2</sup>	Pass/Fail
824.2	32.87	1936.42	0.06	0.54	Pass
836.6	32.53	1790.6	0.05	0.56	Pass
848.8	32.42	1745.8	0.05	0.57	Pass

GSM1900 Antenna Gain=0.85dBi(Numeric 1.2) ,  $\Pi=3.1416$

Frequency	Output Power	Output Power	Power Density	Power Density Limit	Result
MHz	dBm	mW	mW/cm <sup>2</sup>	mW/cm <sup>2</sup>	Pass/Fail
1850.2	30.45	1109.17	0.04	1	Pass
1880	30.66	1164.12	0.04	1	Pass
1909.8	30.74	1185.76	0.05	1	Pass