



Shenzhen Certification Technology Service Co., Ltd.
2F, Building B, East Area of Nanchang Second Industrial
Zone, Gushu 2nd Road, Bao'an District, Shenzhen
518126, P.R. China

TEST REPORT

FCC ID: OJ3-IBF5

Applicant: Blue Anatomy Limited

Address: Room 615, 6 Floor, East Ocean Centre, 98 Granville Road, Tsimshatsui,
Kowloon, HongKong

Equipment Under Test (EUT):

Name : Wireless Body Scale

Model : iBF5

In Accordance with: FCC 15.247

Report No : STE120604673

Date of Test : June 05-26, 2012

Date of Issue : June. 27, 2012

Test Result: **PASS**

In the configuration tested, the EUT complied with the standards specified above

Authorized Signature

A handwritten signature in black ink, appearing to read "Mark Zhu", is written over a horizontal line.

(Mark Zhu)

General Manager

The manufacture should ensure that all the 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 Shenzhen Certification Technology Service Co., Ltd. Or test done by Shenzhen Certification Technology Service Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Certification Technology Service Co., Ltd. Approvals in writing.

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1. General Information

1.1. Description of Device (EUT)

| | |
|-------------------------|--|
| EUT | : Wireless Body Scale |
| Model No. | : iBF5 |
| Trademark | : Blue Anatomy |
| Power supply | : DC 6V from battery |
| Radio Technology | : Bluetooth |
| FCC Operation frequency | : 2402MHz -2480MHz |
| Modulation | : FHSS |
| Antenna Type | : Integral antenna, Gain: 0dBi |
| Applicant | : Blue Anatomy Limited |
| Address | : Room 615, 6 Floor, East Ocean Centre, 98 Granville Road, Tsimshatsui, Kowloon, HongKong |
| Manufacturer | : Blue Anatomy Limited |
| Address | : Room 615, 6 Floor, East Ocean Centre, 98 Granville Road, Tsimshatsui, Kowloon, HongKong |

1.2. Accessories of device (EUT)

| | |
|---------------|-------|
| Accessories 1 | : N/A |
| M/N | : N/A |

1.3. Test Lab information

Shenzhen Certification Technology Service Co., Ltd.
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FCC Registered No.:197647
IC Registered No.:8258B

2. Summary of test

2.1. Summary of test result

| Description of Test Item | Standard | Results |
|--------------------------------|--|----------------|
| Maximum Peak Output Power | FCC Part 15: 15.247(b)(1) ANSI C63.10 :2009 | PASS |
| 20dB Bandwidth | FCC Part 15: 15.215 ANSI C63.10 :2009 | PASS |
| Carrier Frequency Separation | FCC Part 15: 15.247(a)(1) ANSI C63.10 :2009 | PASS |
| Number Of Hopping Channel | FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2009 | PASS |
| Dwell Time | FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2009 | PASS |
| Radiated Emission | FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10 :2009 | PASS |
| Band Edge Compliance | FCC Part 15: 15.247(d) ANSI C63.10 :2009 | PASS |
| Power Line Conducted Emissions | FCC Part 15: 15.207 ANSI C63.10 :2009 | Not applicable |
| Antenna requirement | FCC Part 15: 15.203 | PASS |
| MPE ESTIMATION | FCC Part 2: 2.1093 | PASS |

Note: The Radiated spurious emissions Test with our Shenzhen Certification Technology Service Co.,Ltd. lab. Other test Refer to original test report EF/2005/C0012.

Bluetooth module and the original module, just the antenna change, Bluetooth module antenna gain:0dBi, original gin: 0.5dBi.

EUT can by powered Supply by battery, according to exploratory test, so all the final test were performed using a new battery.

2.2. Assistant equipment used for test

Description : N/A
 Manufacturer : N/A
 Model No. : N/A

2.3. Block Diagram

1, For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was be set into BT test mode by Bluesuite software before test.



2.4. Test mode

The test software “Bluesuite” was used to control EUT work in Continuous TX mode, and select test channel, wireless mode

| Tested mode, channel, and data rate information | | |
|---|--------------|-----------------|
| Mode | Channel | Frequency (MHz) |
| FHSS | Low :CH1 | 2402 |
| | Middle: CH40 | 2441 |
| | High: CH79 | 2480 |

2.5. Test Conditions

| | |
|-------------------|-----------|
| Temperature range | 21-25℃ |
| Humidity range | 40-75% |
| Pressure range | 86-106kPa |

2.6. Measurement Uncertainty (95% confidence levels, k=2)

| Item | MU | Remark |
|---|--------------------|-------------|
| Uncertainty for Power point Conducted Emissions Test | 2.42dB | |
| Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz) | 3.54dB | Polarize: V |
| | 4.1dB | Polarize: H |
| Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz) | 2.08dB | Polarize: H |
| | 2.56dB | Polarize: V |
| Uncertainty for radio frequency | 1×10 ⁻⁹ | |
| Uncertainty for conducted RF Power | 0.65dB | |
| Uncertainty for temperature | 0.2℃ | |
| Uncertainty for humidity | 1% | |
| Uncertainty for DC and low frequency voltages | 0.06% | |

2.7. Test Equipment

| Equipment | Manufacture | Model No. | Serial No. | Last cal. | Cal Interval |
|------------------------|-----------------|-----------------------------|--------------|-------------|--------------|
| 3m Semi-Anechoic | ETS-LINDGREN | N/A | SEL0017 | 05.08, 2011 | 1 Year |
| Spectrum analyzer | Agilent | E4443A | MY46185649 | 05.08, 2011 | 1 Year |
| Receiver | R&S | ESCI | 100492 | 05.08, 2011 | 1 Year |
| Receiver | R&S | ESCI | 101202 | 05.08, 2011 | 1 Year |
| Bilog Antenna | Sunol | JB3 | A121206 | 15.12.2011 | 1 Year |
| Horn Antenna | EMCO | 3115 | 640201028-06 | 15.12.2011 | 1 Year |
| Power Meter | Anritsu | ML2487A | 6K00001491 | 05.08, 2011 | 1 Year |
| ETS Horn Antenna | ETS | 3160 | SEL0076 | 05.08, 2011 | 1 Year |
| Active Loop Antenna | Beijing Daze | ZN30900A | SEL0097 | 15.12.2011 | 1 Year |
| Cable | Resenberger | N/A | No.1 | 05.08, 2011 | 1 Year |
| Cable | SCHWARZBEC K | N/A | No.2 | 05.08, 2011 | 1 Year |
| Cable | SCHWARZBEC K | N/A | No.3 | 05.08, 2011 | 1 Year |
| Pre-amplifier | R&S | AFS42-00101 800-25-S-42 | SEL0081 | 05.08, 2011 | 1 Year |
| Pre-amplifier | R&S | AFS33-18002 650-30-8P-44 | SEL0080 | 05.08, 2011 | 1 Year |
| Base station | Agilent | E5515C | GB44300243 | 05.08, 2011 | 1 Year |
| Temperature controller | Terchy | MHQ | 120 | 05.08, 2011 | 1 Year |
| Power divider | Anritsu | K240C | 020346 | 05.08, 2011 | 1 Year |
| Signal Generator | HP | 83732B | VS3449051 | 05.08, 2011 | 1 Year |
| Attenuator | Agilent | 8491B | MY39262165 | 05.08, 2011 | 1 Year |

3. Maximum Peak Output power

3.1. Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W

Refer to original test report EF/2005/C0012, Page 16.

See original test report EF/2005/C0012 Page 16, The original test result :

| CH | Frequency (MHz) | Reading Power dBm | Cable Loss | Output Power dBm | Output Power W | Limit (W) |
|------|-----------------|-------------------|------------|------------------|----------------|-----------|
| LOW | 2402.0 | 2.25 | 0.20 | 2.45 | 0.00176 | 1 |
| MID | 2441.0 | 2.07 | 0.20 | 2.27 | 0.00169 | 1 |
| HIGH | 2480.0 | 3.26 | 0.20 | 3.46 | 0.00222 | 1 |

The max out power is 3.46 dBm, max antenna gain is 0dBi,
So max out power is 3.46 dBm.

4. 20dB bandwidth

4.1. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Refer to original test report EF/2005/C0012, Page 19.

See original test report EF/2005/C0012 Page 19 ,The original test result :

| CH | Bandwidth (MHz) |
|--------|--------------------|
| Lower | 933.16 |
| Mid | 929.17 |
| Higher | 932.21 |

5. Carrier Frequency Separation

Refer to original test report EF/2005/C0012, Page 41.

6. Number Of Hopping Channel

Refer to original test report EF/2005/C0012, Page 43.

7. Dwell Time

Refer to original test report EF/2005/C0012, Page 45.

8. Conducted spurious emissions

Refer to original test report EF/2005/C0012, Page 29 to 31.

9. Radiated emissions

9.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

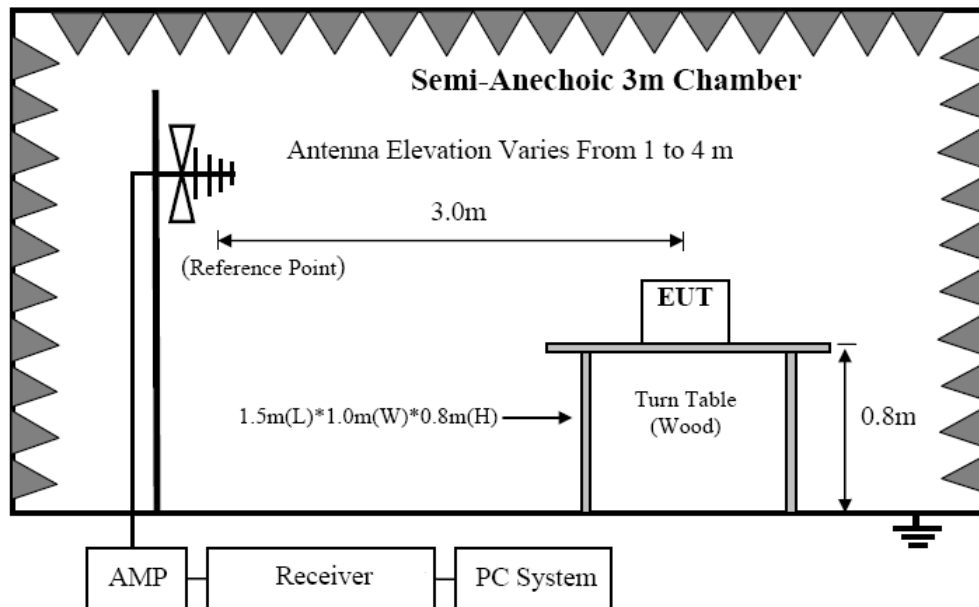
| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |

15.209 Limit

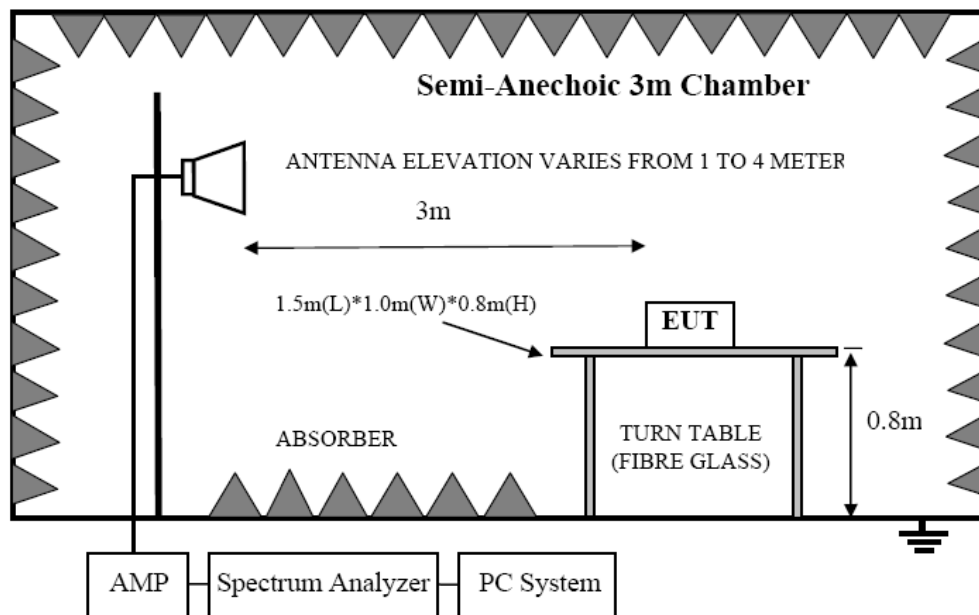
| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|------------------|--------------------|---|----------|
| | | μV/m | dB(μV)/m |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | 74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average) | |

9.2. Block Diagram of Test setup

9.2.1. In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



9.2.2. In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

9.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and simulator as shown in section 1.4 and 6.1
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
 - (c) Change power supply range from 85% to 115% of the rated supply voltage for AC power supply.
 - (d) Rotated EUT through three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2009 on Radiated Emission test.
- (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

9.4. Test Result

We have scanned the 5th harmonic from 9KHz to the EUT.
Detailed information please see the following page.

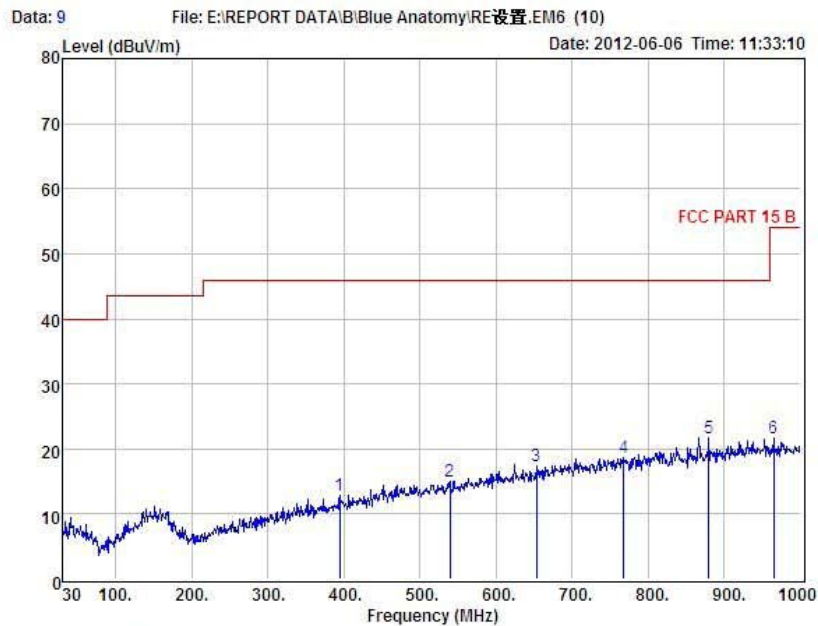
From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

From 30MHz to 1GHz



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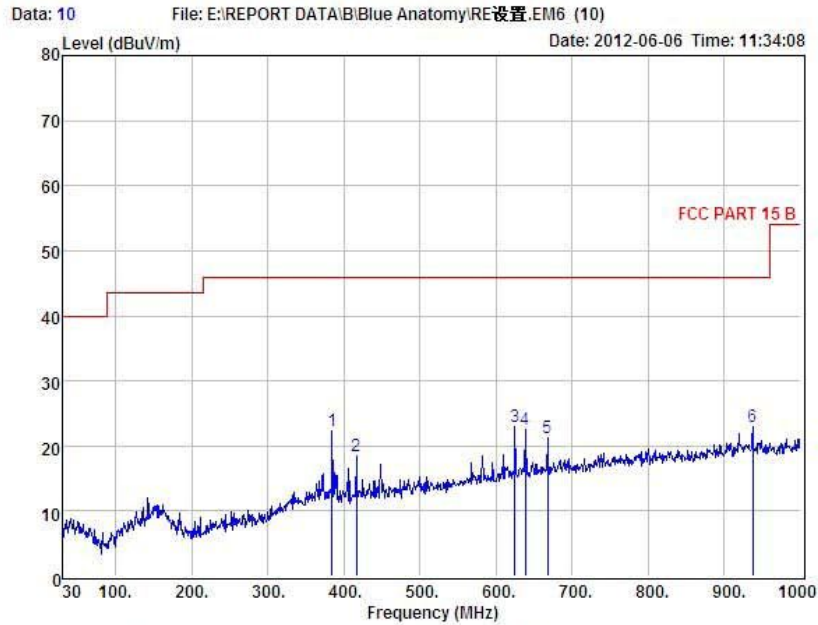


Condition : FCC PART 15 B 3m POL: VERTICAL
 EUT : Wireless Body Scale
 Model No. : iBF5
 Test Mode : Weighing
 Power : DC 6.0V
 Test Engineer : Eric
 Remark :

| Item | Freq MHz | Read Level dBuV | Antenna Factor dB | Preamplifier Factor dB | Cable Loss dB | Level dBuV | Limit dBuV | Margin dBuV | Remark |
|------|-------------|-----------------------|-------------------------|------------------------------|---------------------|---------------|---------------|----------------|--------|
| 1 | 394.72 | 27.10 | 14.64 | 31.41 | 2.44 | 12.77 | 46.00 | -33.23 | QP |
| 2 | 539.25 | 26.47 | 17.19 | 31.69 | 3.08 | 15.05 | 46.00 | -30.95 | QP |
| 3 | 652.74 | 26.77 | 19.14 | 31.79 | 3.30 | 17.42 | 46.00 | -28.58 | QP |
| 4 | 767.20 | 26.38 | 20.45 | 31.67 | 3.53 | 18.69 | 46.00 | -27.31 | QP |
| 5 | 879.72 | 28.13 | 21.37 | 31.67 | 3.76 | 21.59 | 46.00 | -24.41 | QP |
| 6 | 965.08 | 27.15 | 22.18 | 31.61 | 3.93 | 21.65 | 54.00 | -32.35 | QP |



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Condition : FCC PART 15 B 3m. POL: HORIZONTAL
 EUT : Wireless Body Scale
 Model No. : iBF5
 Test Mode : Weighing
 Power : DC 6.0V
 Test Engineer : Eric
 Remark :

| Item | Freq MHz | Read Level dBuV | Antenna Factor dB | Preamp Factor dB | Cable Loss dB | Level dBuV | Limit dBuV | Margin dBuV | Remark |
|------|-------------|-----------------------|-------------------------|------------------------|---------------------|---------------|---------------|----------------|--------|
| 1 | 384.05 | 36.73 | 14.48 | 31.38 | 2.38 | 22.21 | 46.00 | -23.79 | QP |
| 2 | 416.06 | 32.20 | 15.13 | 31.45 | 2.55 | 18.43 | 46.00 | -27.57 | QP |
| 3 | 624.61 | 32.73 | 18.76 | 31.81 | 3.25 | 22.93 | 46.00 | -23.07 | QP |
| 4 | 638.19 | 32.08 | 18.94 | 31.80 | 3.28 | 22.50 | 46.00 | -23.50 | QP |
| 5 | 667.29 | 30.30 | 19.30 | 31.78 | 3.33 | 21.15 | 46.00 | -24.85 | QP |
| 6 | 936.95 | 28.66 | 22.05 | 31.62 | 3.87 | 22.96 | 46.00 | -23.04 | QP |

| 1GHz—25GHz Radiated emission Test result | | | | | | | | | |
|---|------------|---------------------|-----------------------|----------------|-----------------|-----------------|----------------|-------------|--------|
| EUT: Wireless Body Scale M/N:iBF5 | | | | | | | | | |
| Power: DC 6V supply by battery | | | | | | | | | |
| Test date: 2012-06-07 Test site: 3m Chamber Tested by: Simple | | | | | | | | | |
| Test mode: Tx CH1 2402MHz | | | | | | | | | |
| Antenna polarity: Vertical | | | | | | | | | |
| No | Freq (MHz) | Read Level (dBuV/m) | Antenna Factor (dB/m) | Cable loss(dB) | Amp Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
| 1 | 2402 | / | / | / | / | / | / | / | / |
| 2 | 4804 | 45.73 | 34.36 | 10.53 | 35.37 | 55.25 | 74.00 | 18.75 | PK |
| 3 | 4804 | 32.11 | 34.36 | 10.53 | 35.37 | 41.63 | 54.00 | 12.37 | AV |
| 4 | 7206 | / | | | | | | | |
| 5 | 9608 | / | | | | | | | |
| 6 | 12010 | / | | | | | | | |
| Antenna Polarity: Horizontal | | | | | | | | | |
| 1 | 2402 | / | / | / | / | / | / | / | / |
| 2 | 4804 | 43.92 | 34.36 | 10.53 | 35.37 | 53.44 | 74.00 | 20.56 | PK |
| 3 | 4804 | 30.66 | 34.36 | 10.53 | 35.37 | 40.18 | 54.00 | 13.82 | AV |
| 4 | 7206 | / | | | | | | | |
| 5 | 9608 | / | | | | | | | |
| 6 | 12010 | / | | | | | | | |
| Note: 1,Measuring frequency from 1GHz to 25GHz 2,Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz ,Sweep time=Auto,Detector:PK 2,Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz ,Sweep time=Auto,Detector:PK 3,Result = Read level + Antenna factor + cable loss-Amp factor 4,All the other emissions not reported were too low to read and deemed to comply with FCC limit. | | | | | | | | | |

| 1GHz—25GHz Radiated emission Test result | | | | | | | | | |
|---|------------|---------------------|-----------------------|----------------|-----------------|-----------------|----------------|-------------|--------|
| EUT: Wireless Body Scale M/N:iBF5 | | | | | | | | | |
| Power: DC 6V supply by battery | | | | | | | | | |
| Test date: 2012-06-07 Test site: 3m Chamber Tested by: Simple | | | | | | | | | |
| Test mode: Tx CH40 2441MHz | | | | | | | | | |
| Antenna polarity: Vertical | | | | | | | | | |
| No | Freq (MHz) | Read Level (dBuV/m) | Antenna Factor (dB/m) | Cable loss(dB) | Amp Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
| 1 | 2441 | / | / | / | / | / | / | / | / |
| 2 | 4882 | 42.58 | 34.78 | 10.57 | 35.36 | 52.57 | 74.00 | 21.43 | PK |
| 3 | 4882 | 28.27 | 34.78 | 10.57 | 35.36 | 38.26 | 54.00 | 15.74 | AV |
| 4 | 7323 | / | | | | | | | |
| 5 | 9764 | / | | | | | | | |
| 6 | 12205 | / | | | | | | | |
| Antenna Polarity: Horizontal | | | | | | | | | |
| 1 | 2441 | / | / | / | / | / | / | / | / |
| 2 | 4882 | 43.05 | 34.78 | 10.57 | 35.36 | 53.04 | 74.00 | 20.96 | PK |
| 3 | 4882 | 29.20 | 34.78 | 10.57 | 35.36 | 39.19 | 54.00 | 14.81 | AV |
| 4 | 7323 | / | | | | | | | |
| 5 | 9764 | / | | | | | | | |
| 6 | 12205 | / | | | | | | | |
| Note: 1,Measuring frequency from 1GHz to 25GHz 2,Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz ,Sweep time=Auto,Detector:PK 2,Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz ,Sweep time=Auto,Detector:PK 3,Result = Read level + Antenna factor + cable loss-Amp factor 4,All the other emissions not reported were too low to read and deemed to comply with FCC limit. | | | | | | | | | |

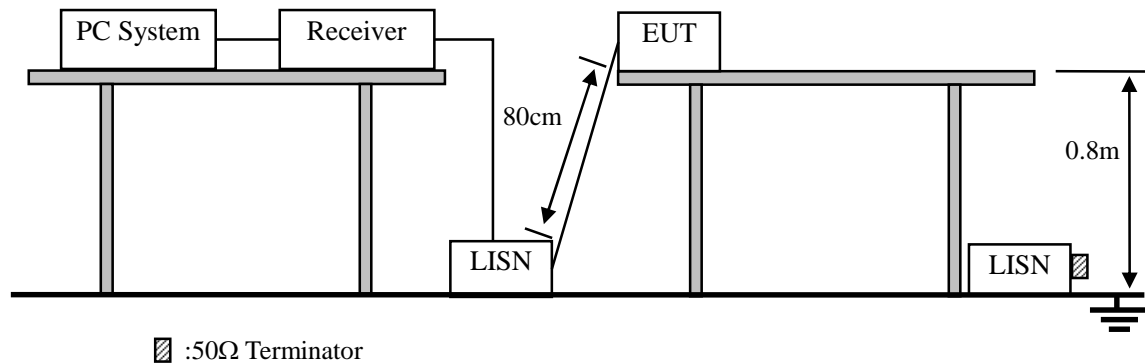
| 1GHz—25GHz Radiated emission Test result | | | | | | | | | |
|--|------------|---------------------|-----------------------|----------------|-----------------|-----------------|----------------|-------------|--------|
| EUT: Wireless Body Scale M/N:iBF5 | | | | | | | | | |
| Power: DC 6V supply by battery | | | | | | | | | |
| Test date: 2012-06-07 Test site: 3m Chamber Tested by: Simple | | | | | | | | | |
| Test mode: Tx CH79 2480MHz | | | | | | | | | |
| Antenna polarity: Vertical | | | | | | | | | |
| No | Freq (MHz) | Read Level (dBuV/m) | Antenna Factor (dB/m) | Cable loss(dB) | Amp Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
| 1 | 2480 | / | / | / | / | / | / | / | / |
| 2 | 4960 | 42.21 | 35.29 | 10.59 | 35.37 | 52.72 | 74.00 | 21.28 | PK |
| 3 | 4960 | 28.76 | 35.29 | 10.59 | 35.37 | 39.27 | 54.00 | 14.73 | AV |
| 4 | 7440 | / | | | | | | | |
| 5 | 9920 | / | | | | | | | |
| 6 | 12400 | / | | | | | | | |
| Antenna Polarity: Horizontal | | | | | | | | | |
| 1 | 2480 | / | / | / | / | / | / | / | / |
| 2 | 4960 | 42.54 | 35.29 | 10.59 | 35.37 | 53.05 | 74.00 | 20.95 | PK |
| 3 | 4960 | 29.63 | 35.29 | 10.59 | 35.37 | 40.14 | 54.00 | 13.86 | AV |
| 4 | 7440 | / | | | | | | | |
| 5 | 9920 | / | | | | | | | |
| 6 | 12400 | / | | | | | | | |
| Note: | | | | | | | | | |
| 1,Measuring frequency from 1GHz to 25GHz | | | | | | | | | |
| 2,Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz ,Sweep time=Auto,Detector:PK | | | | | | | | | |
| 2,Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz ,Sweep time=Auto,Detector:PK | | | | | | | | | |
| 3,Result = Read level + Antenna factor + cable loss-Amp factor | | | | | | | | | |
| 4,All the other emissions not reported were too low to read and deemed to comply with FCC limit. | | | | | | | | | |

10. Band Edge Compliance

Refer to original test report EF/2005/C0012, Page 22.

11. Power Line Conducted Emissions

11.1. Block Diagram of Test Setup



11.2. Limit

| Frequency | Maximum RF Line Voltage | |
|-----------------|----------------------------|-------------------------|
| | Quasi-Peak Level dB(μV) | Average Level dB(μV) |
| 150kHz ~ 500kHz | 66 ~ 56* | 56 ~ 46* |
| 500kHz ~ 5MHz | 56 | 46 |
| 5MHz ~ 30MHz | 60 | 50 |

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

11.3. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N1), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 2009 and ANSI C64.10:2009 on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

11.4. Test Result

EUT power supply by battery, so the test not applicable.

12. Antenna Requirements

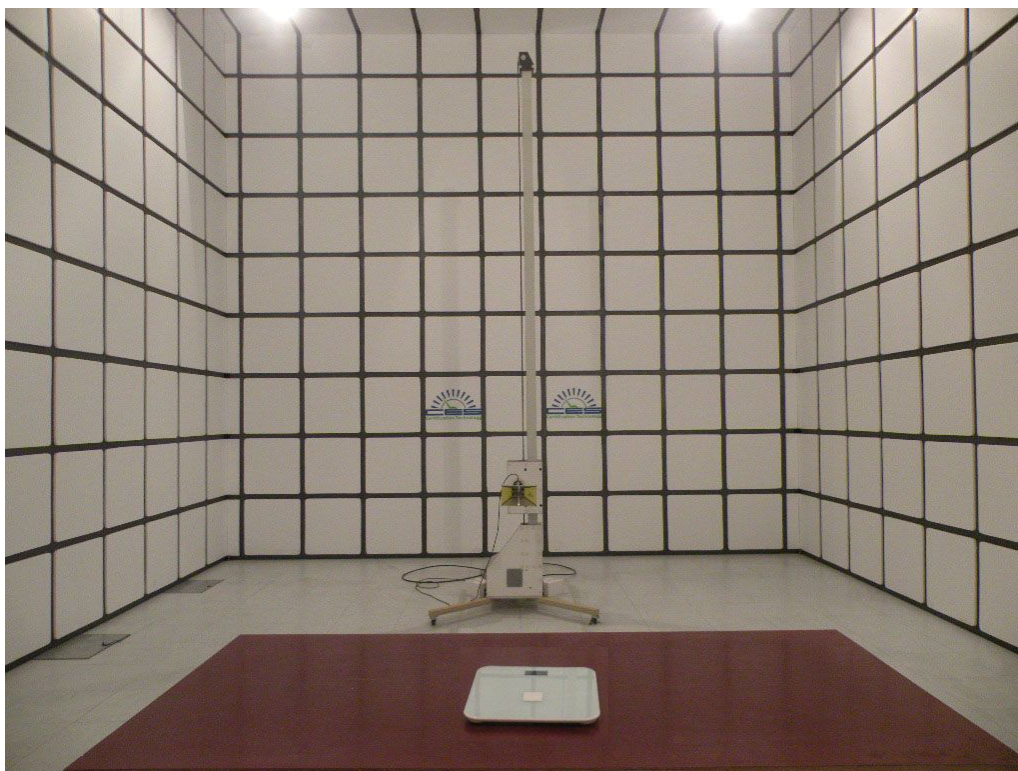
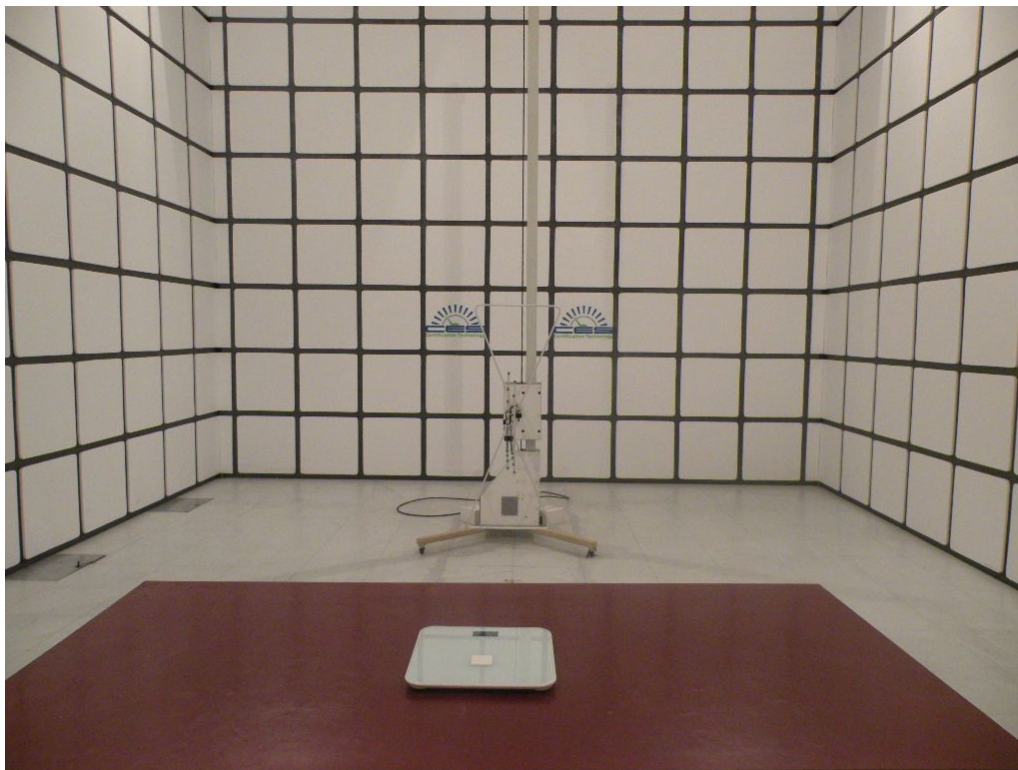
12.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

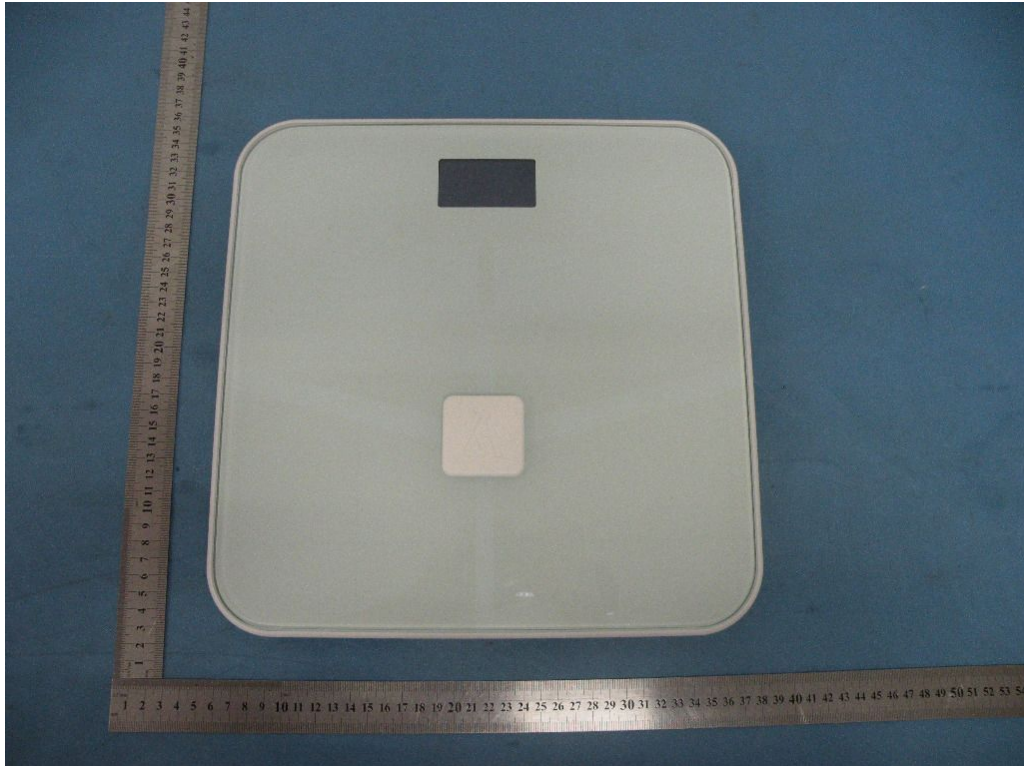
12.2. Result

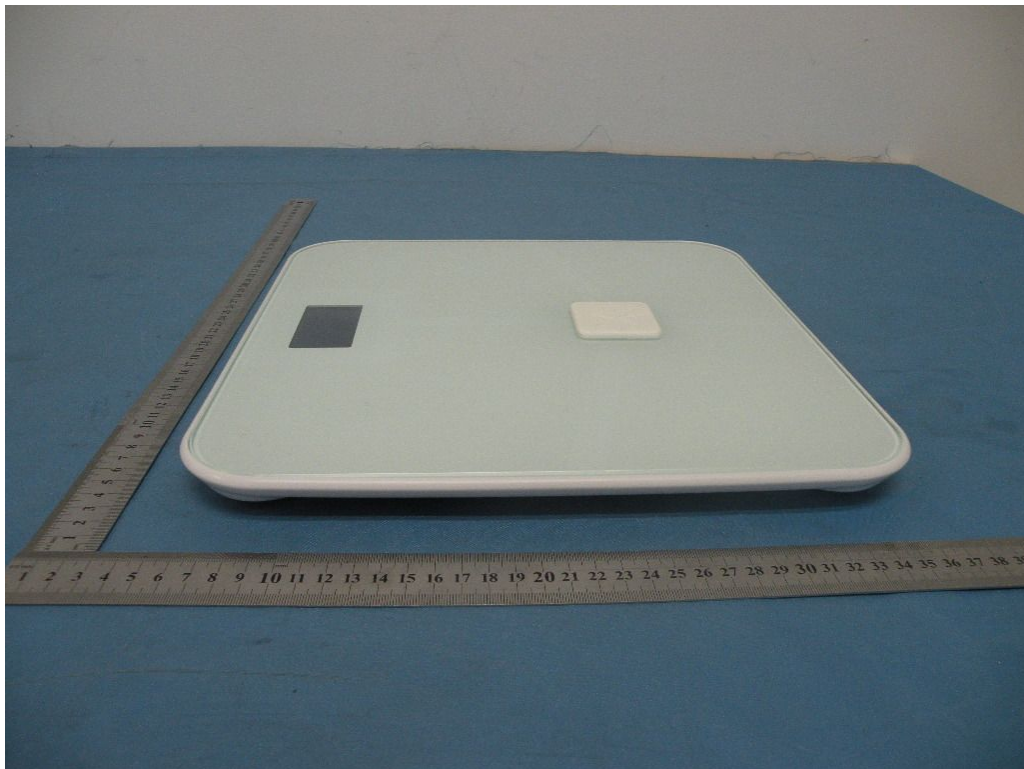
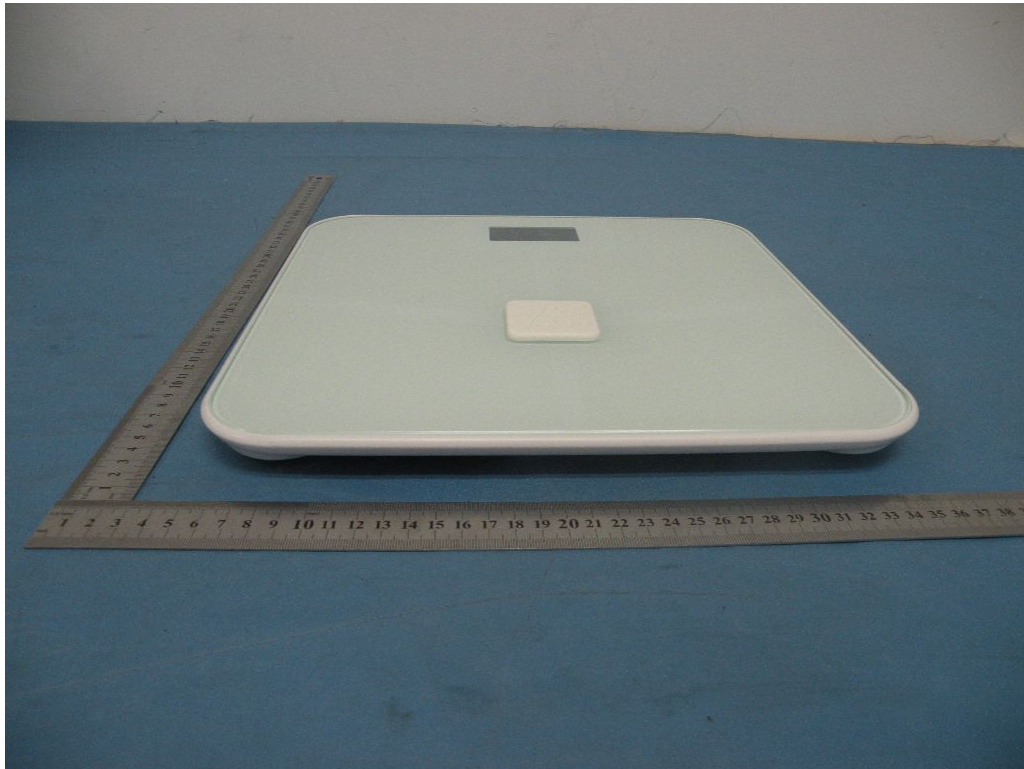
The antennas used for this product are integral Patch Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi.

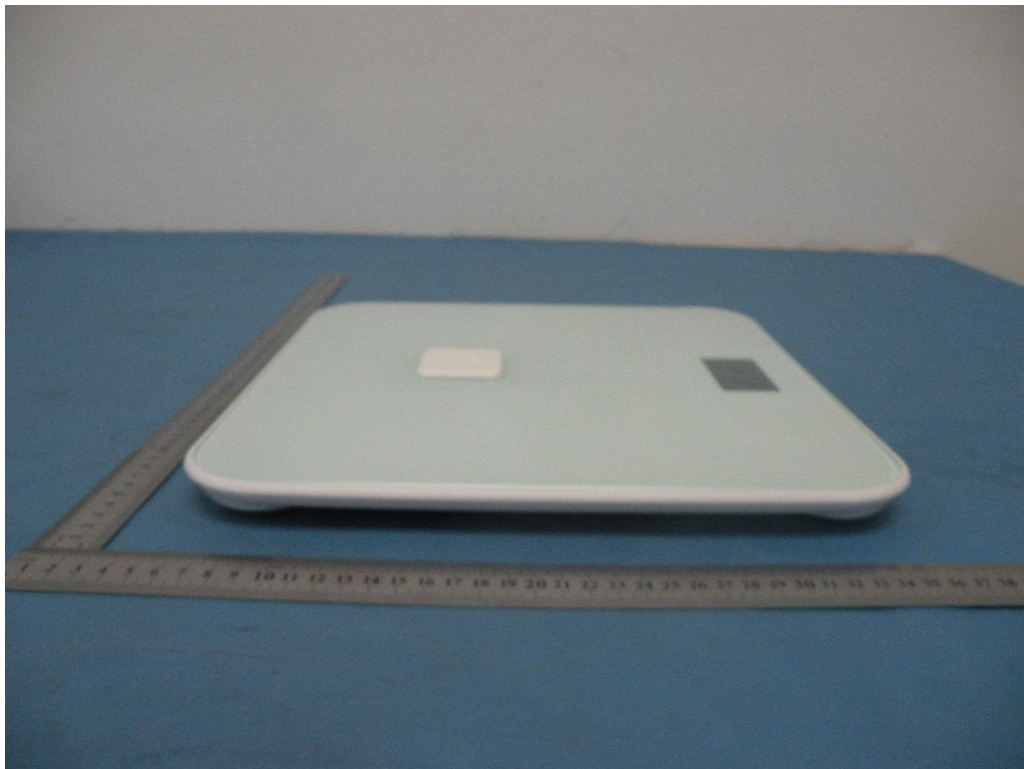
13. Test setup photo

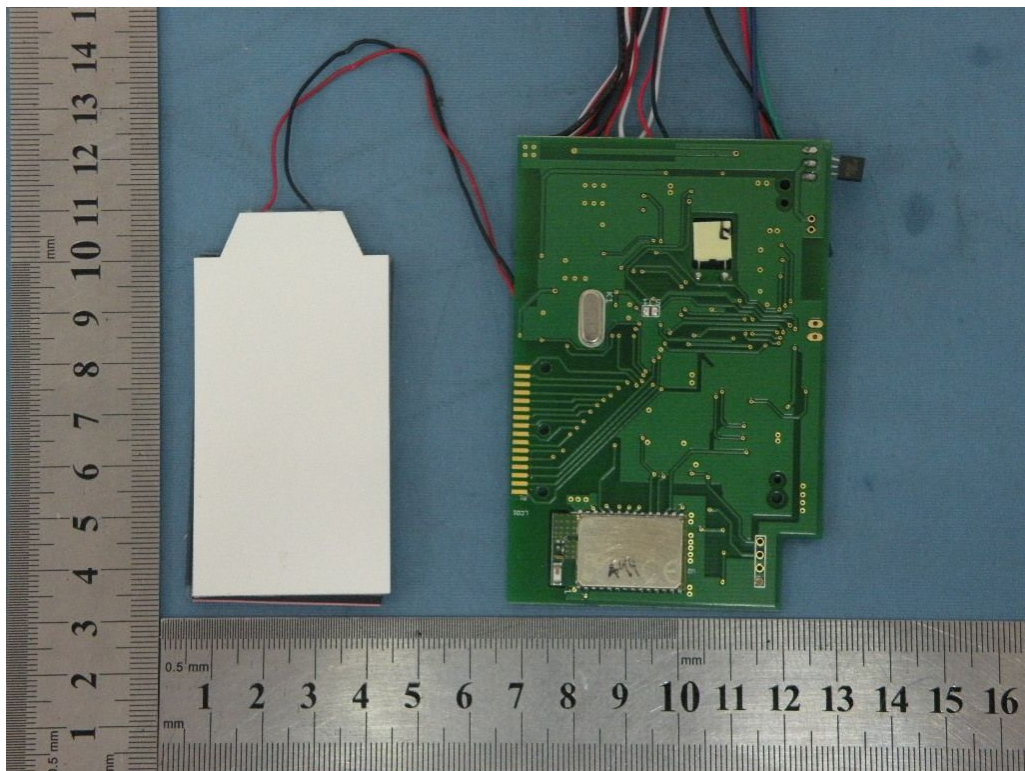
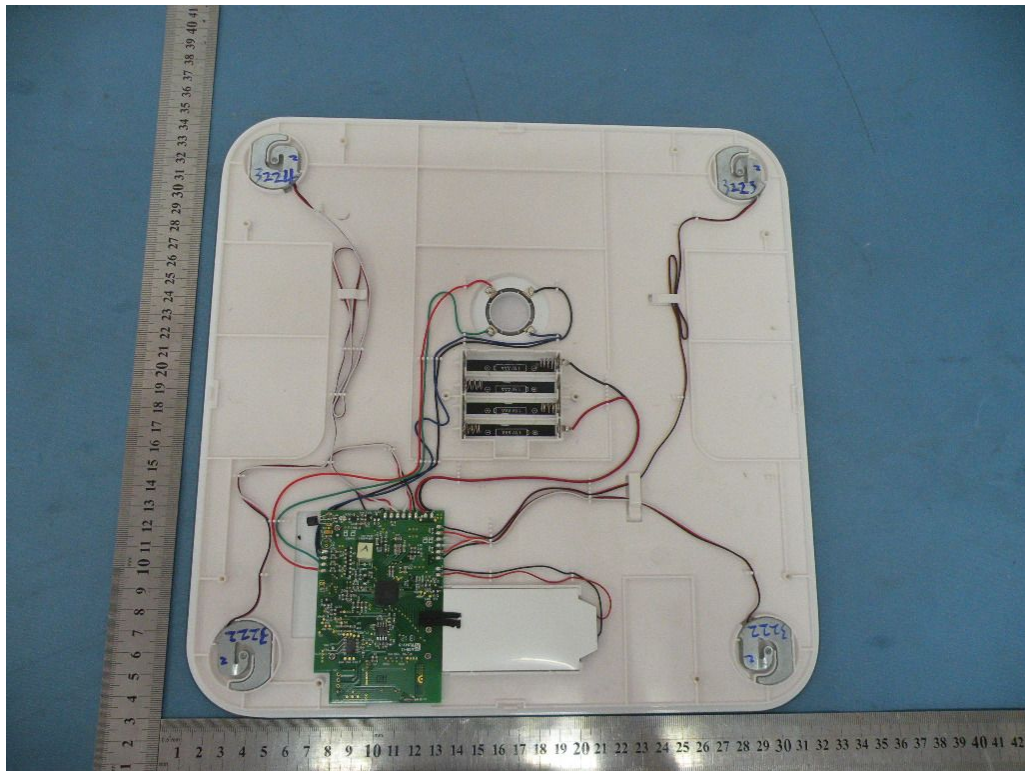


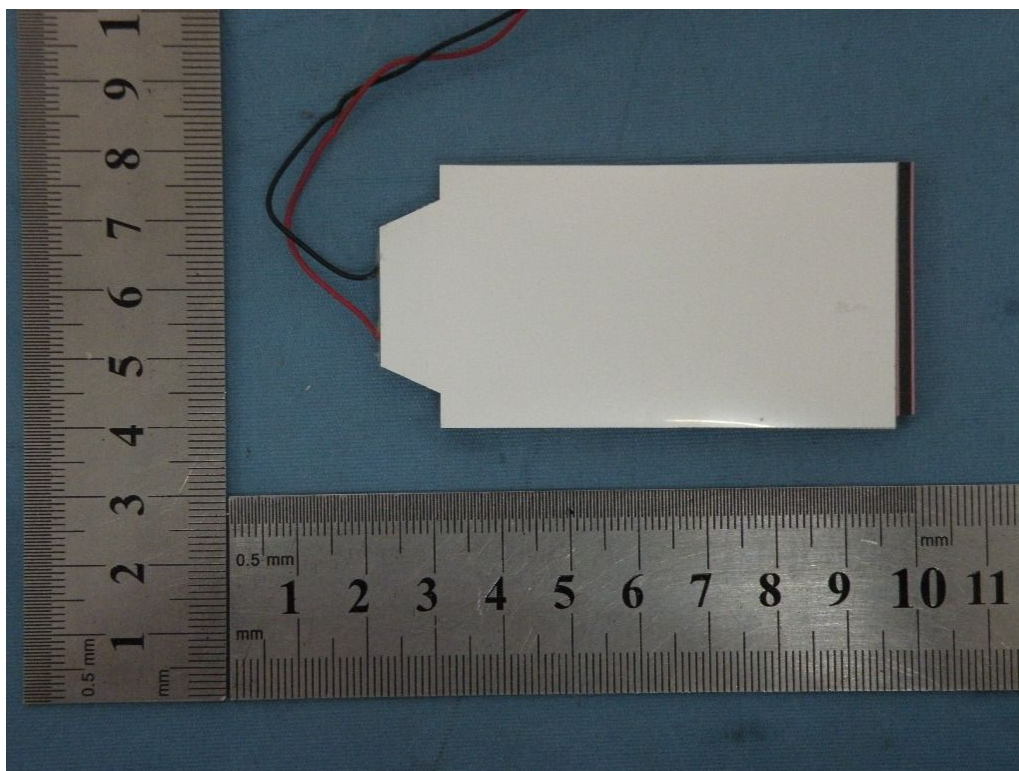
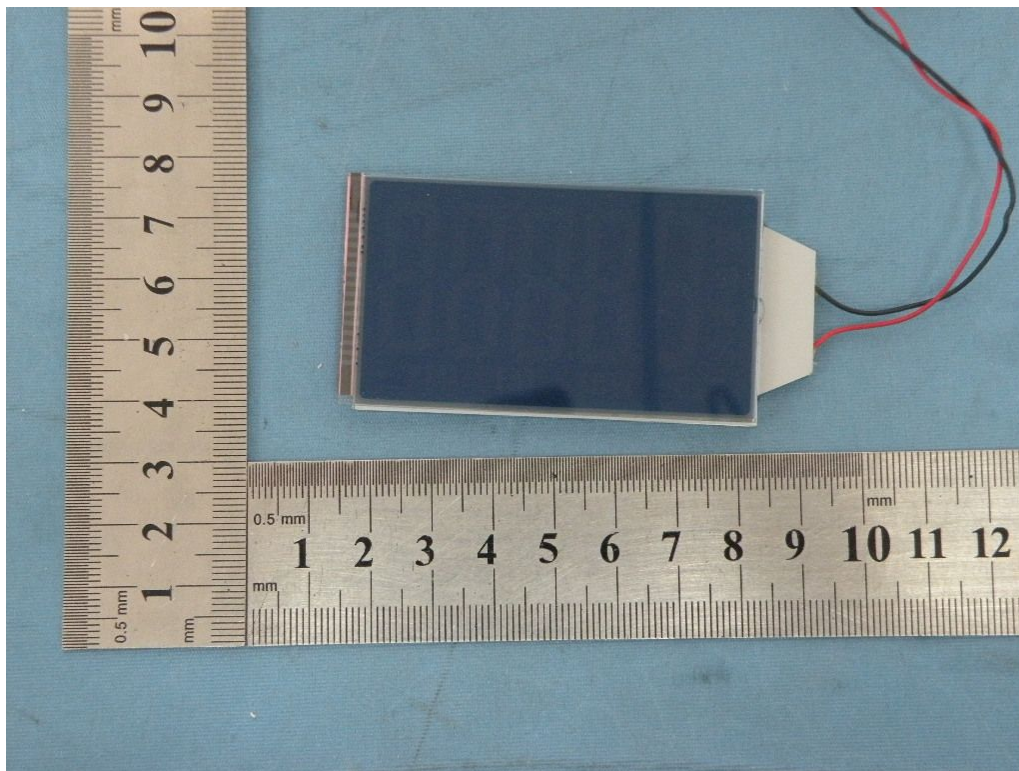
14.Photos of EUT

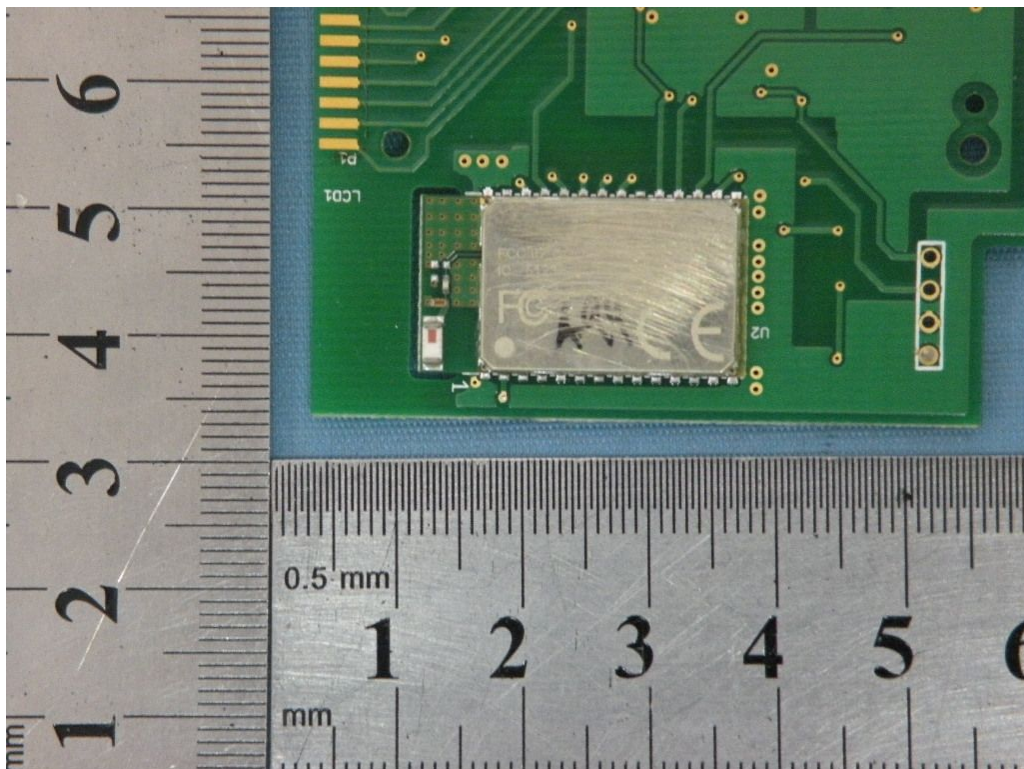
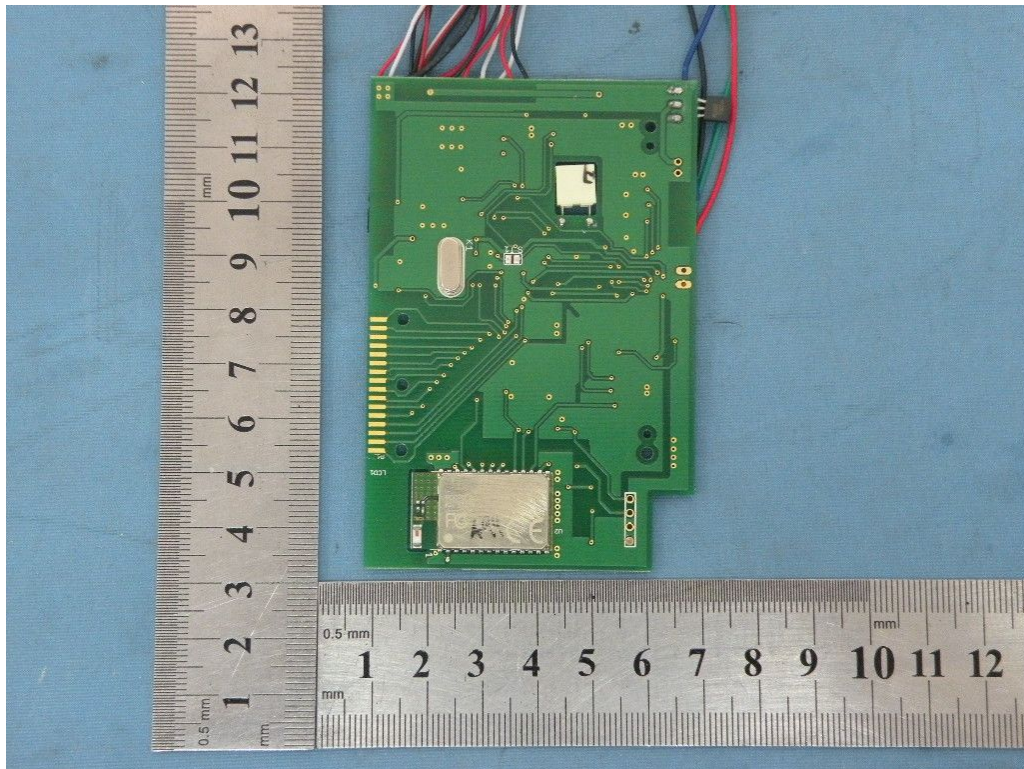


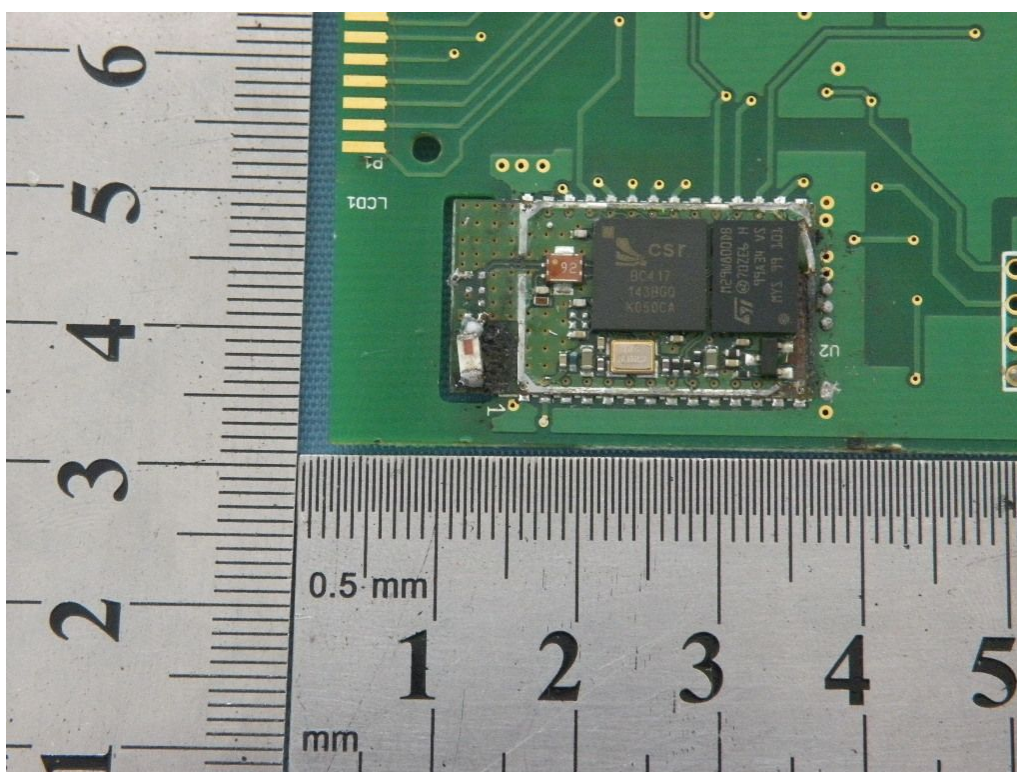
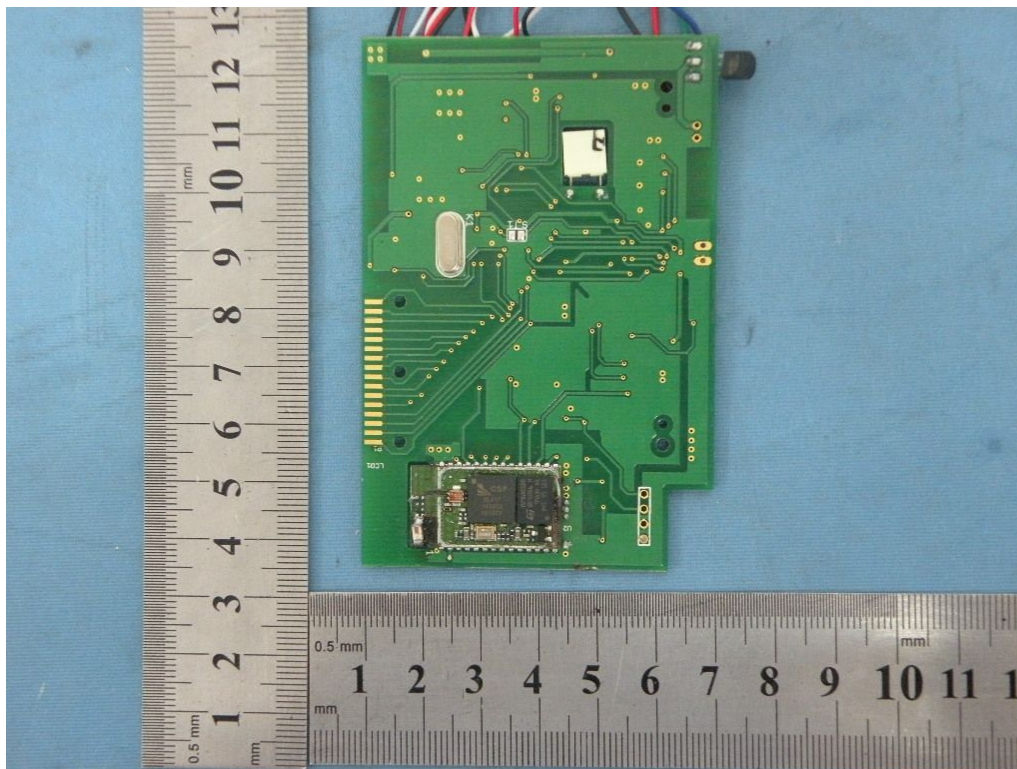


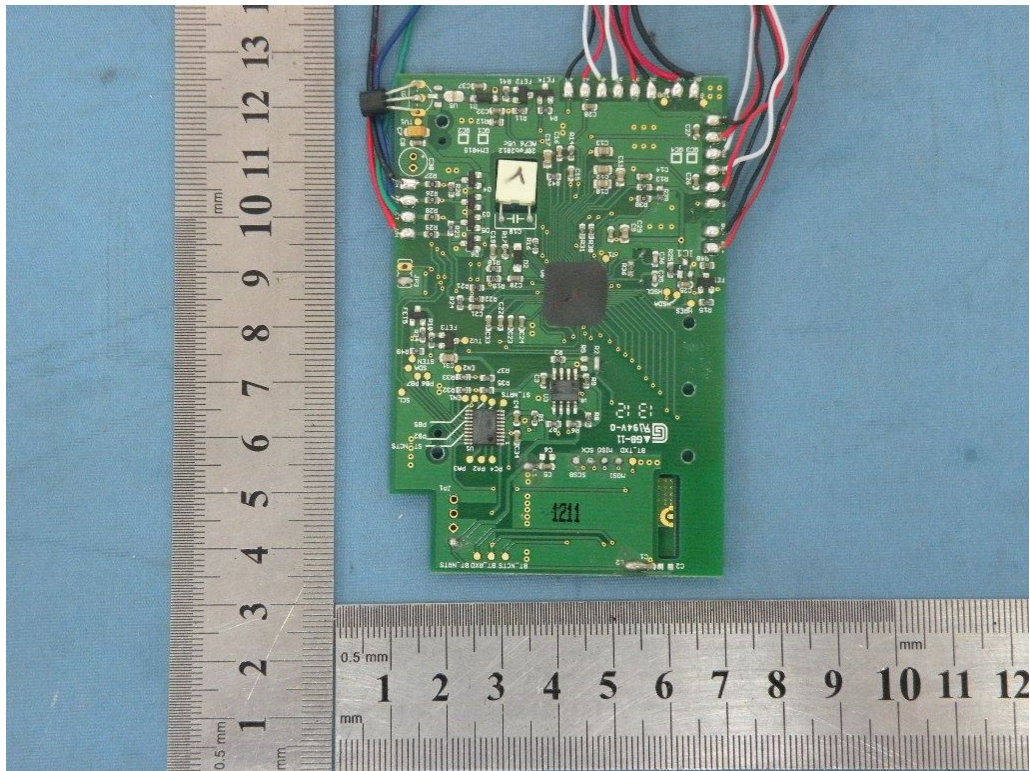












END OF THE REPORT