

EMC TEST REPORT  
for

4000MAH TYPE C POWER BANK  
Model No.: P324.262

Prepared for :

Address :

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Report Number : R0116121505E  
Date of Test : Dec. 28, 2016~Jan. 12, 2017  
Date of Report : Jan. 12, 2017

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APPENDIX I (Photos of the EUT) (4 pages)

**TEST REPORT VERIFICATION**

Applicant :  
Manufacturer :  
EUT : 4000MAH TYPE C POWER BANK  
Model No. : P324.262  
Rating : Input: DC 5V, 1A  
Output: DC 5V, 2.1A  
Trade Mark : N.A.

**Measurement Procedure Used:**

EN 55032: 2015;  
EN 55024: 2010+A1: 2015;  
(IEC 61000-4-2; IEC 61000-4-3)

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the EN 55032 and EN 55024 requirements. The Project in IEC 61000-4-3 was tested in Shenzhen EMTEK Co., Ltd.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test : Dec. 28, 2016~Jan. 12, 2017

Prepared by :



*Baron Wen*  
(Engineer/ Baron Wen)

Reviewer :

*Olivia Yang*  
(Project Manager/ Olivia Yang)

Approved & Authorized Signer :

*Tom Chen*  
(Manager/ Tom Chen)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT : 4000MAH TYPE C POWER BANK

Model Number : P324.262

Test Power Supply : DC 5V/ DC 3.7V

Applicant :  
Address :

Manufacturer :  
Address :

Factory :  
Address :

Date of receipt : Dec. 28, 2016

Date of Test : Dec. 28, 2016~Jan. 12, 2017

## 1.2. Description of Test Facility

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

### **FCC-Registration No.: 752021**

Shenzhen Anbotek Compliance Laboratory Limited, 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 752021, July 06, 2016.

### **IC-Registration No.: 8058A-1**

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A-1, Jun. 13, 2016.

### **CNAS - LAB Code: L3503**

Shenzhen Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

### **Test Location**

All Emissions tests were performed  
Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

## 1.3. Measurement Uncertainty

|                        |   |                                                  |
|------------------------|---|--------------------------------------------------|
| Radiation Uncertainty  | : | Ur = 4.1dB (Horizontal)<br>Ur = 4.3dB (Vertical) |
| Conduction Uncertainty | : | Uc = 3.4dB                                       |

#### 1.4. Test Summary

For the EUT described above. The standards used were EN 55032 for Emissions & EN 55024 for Immunity.

Table 1 : Tests Carried Out Under EN 55032: 2015

| Standard       | Test Items                                           | Status |
|----------------|------------------------------------------------------|--------|
| EN 55032: 2015 | Power Line Conducted Emission Test (150KHz To 30MHz) | x      |
| EN 55032: 2015 | Radiated Emission Test (30MHz To 1000MHz)            | √      |

Table 2 : Tests Carried Out Under EN 55024: 2010+A1: 2015

| Standard                | Test Items                                    | Status |
|-------------------------|-----------------------------------------------|--------|
| EN 55024: 2010+A1: 2015 | Electrostatic Discharge immunity Test         | √      |
| EN 55024: 2010+A1: 2015 | RF Field Strength susceptibility Test         | √      |
| EN 55024: 2010+A1: 2015 | Electrical Fast Transient/Burst Immunity Test | x      |
| EN 55024: 2010+A1: 2015 | Surge Immunity Test                           | x      |
| EN 55024: 2010+A1: 2015 | Injected Currents Susceptibility Test         | x      |
| EN 55024: 2010+A1: 2015 | Magnetic Field Susceptibility Test            | x      |
| EN 55024: 2010+A1: 2015 | Voltage Dips and Interruptions Test           | x      |

- √ Indicates that the test is applicable  
x Indicates that the test is not applicable

### 1.5. EMS Performance Criteria

- √ A: Normal performance within the specification limits
- √ B: Temporary degradation or loss of function or performance which is self-recoverable
- √ C: Temporary degradation or loss of function or performance which requires operator intervention or system reset
- √ D: Degradation or loss of function which is not recoverable due to damage of equipment (components) or software, or loss of data

Note: The manufacturer's specification may define effects on the EUT which may be considered insignificant, and therefore acceptable.

This classification may be used as a guide in formulating performance criteria, by committees responsible for generic, product and product-family standards, or as a framework for the agreement on performance criteria between the manufacturer and the purchaser, for example where no suitable generic, product or product-family standard exists.

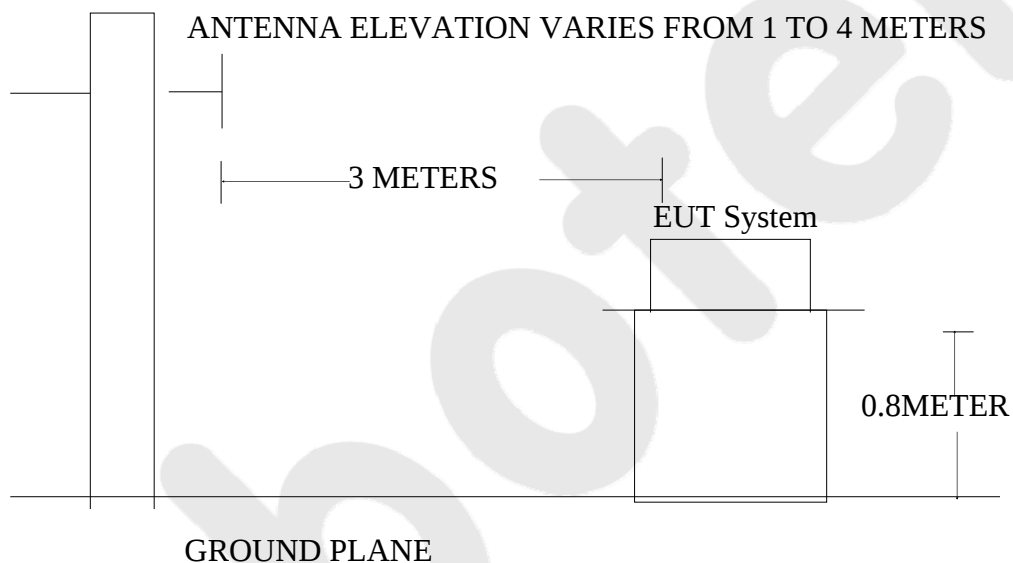
## 2. RADIATED EMISSION TEST

### 2.1. Block Diagram of Test

#### 2.1.1. Block diagram of connection between the EUT and simulators



#### 2.1.2. Block diagram of test setup (In chamber)



### 2.2. Measuring Standard

EN 55032: 2015

### 2.3. Radiated Emission Limits

#### 2.3.1. EN 55032: 2015

##### Radiated Emission Limits

All emanations from a EN 55032 device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

| FREQUENCY<br>(MHz) | DISTANCE<br>(Meters) | FIELD STRENGTHS LIMIT<br>(dBμV/m) |
|--------------------|----------------------|-----------------------------------|
| 30 ~ 230           | 3                    | 40                                |
| 230 ~ 1000         | 3                    | 47                                |

Note: (1) The smaller limit shall apply at the combination point between two frequency bands.

(2) Distance refers to the distance in meters between the

measuring instrument antenna and the closed point of any part of the EUT.

## 2.4. EUT Configuration on Test

The EN 55032 regulations test method must be used to find the maximum emission during radiated emission measurement.

## 2.5. Operating Condition of EUT

2.5.1. Turn on the power.

2.5.2. Let the EUT work in test mode (Charging, Full Load) and measure it.

## 2.6. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Bilog antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the Receiver (ESCI) is set at 120kHz.

The EUT is tested in 9\*6\*6 Chamber.

The test results are listed in Section 2.8.

## 2.7. Test Equipment

The following test equipments are used during radiated emission measurement:

| Item | Equipment               | Manufacturer    | Model No. | Serial No.    | Last Cal.     | Cal. Interval |
|------|-------------------------|-----------------|-----------|---------------|---------------|---------------|
| 1.   | EMI Test Receiver       | Rohde & Schwarz | ESPI      | 101604        | Jun. 17, 2016 | 1 Year        |
| 2.   | Bilog Broadband Antenna | Schwarzbeck     | VULB9163  | VULB 9163-289 | May 06, 2016  | 1 Year        |
| 3.   | Pre-amplifier           | SONOMA          | 310N      | 186860        | Jun. 17, 2016 | 1 Year        |

## 2.8. Measuring Results

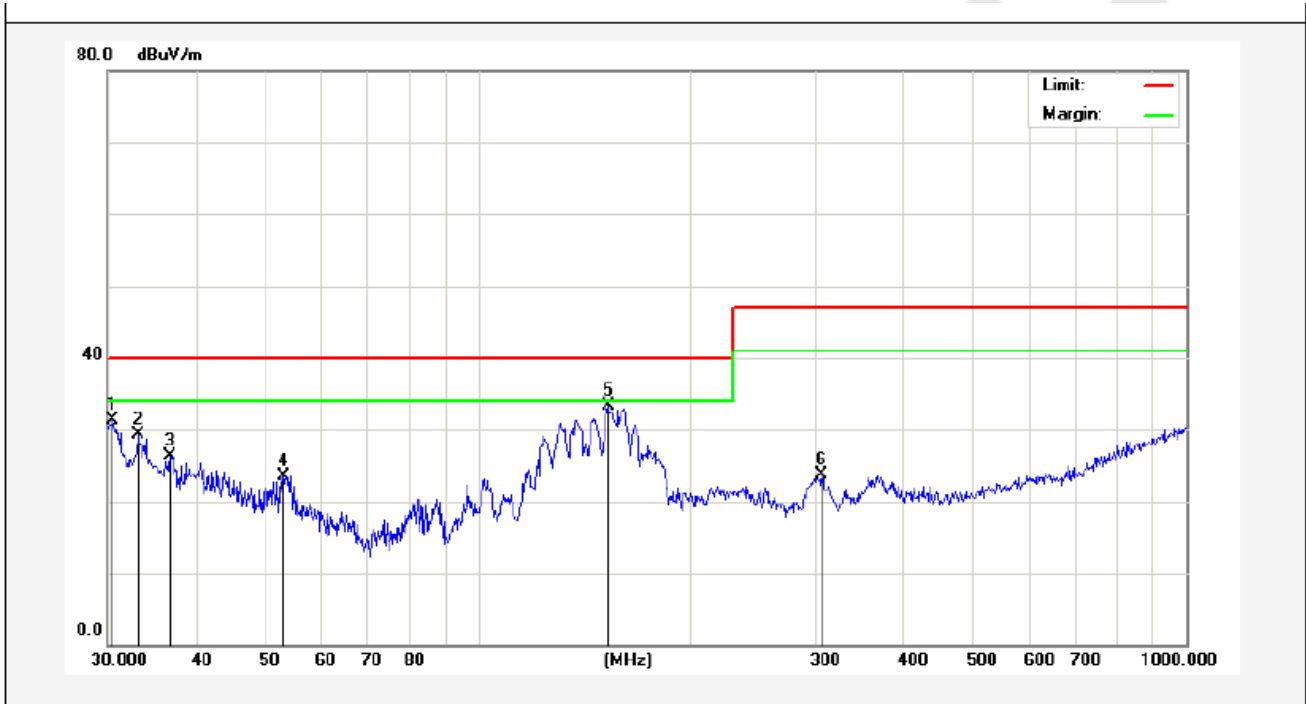
**PASS**

The frequency range from 30MHz to 1000MHz is investigated.

The test curves are shown in the following pages.

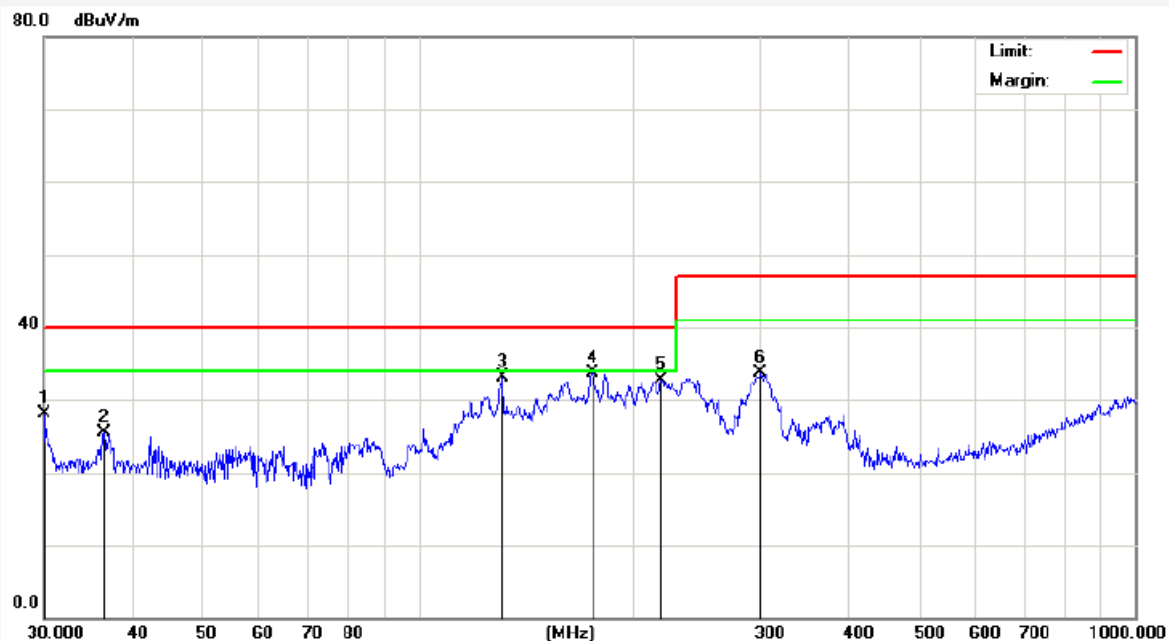
The EUT was tested on (Charging, Full Load) modes, only the worst data of (Charging) are attached in the following pages.

|            |                 |                      |                 |
|------------|-----------------|----------------------|-----------------|
| Job No.:   | AT0116121505E   | Polarization:        | Vertical        |
| Standard:  | (RE)EN 55032_3m | Power Source:        | DC 3.7V         |
| Test item: | Radiation Test  | Temp.(°C)/Hum.(%RH): | 24.3( °C)/55%RH |
| Note:      | Full Load       | Distance:            | 3m              |



| No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/ | Over Limit<br>(dB) | Detector | Height<br>(cm) | degree<br>(deg) | Remark |
|-----|----------------|---------------------|------------------|--------------------|-----------------|--------------------|----------|----------------|-----------------|--------|
| 1   | 30.5304        | 48.00               | -16.66           | 31.34              | 40.00           | -8.66              | peak     |                |                 |        |
| 2   | 33.0949        | 44.69               | -15.30           | 29.39              | 40.00           | -10.61             | peak     |                |                 |        |
| 3   | 36.7661        | 39.19               | -12.91           | 26.28              | 40.00           | -13.72             | peak     |                |                 |        |
| 4   | 53.1313        | 38.28               | -14.79           | 23.49              | 40.00           | -16.51             | peak     |                |                 |        |
| 5   | 152.6639       | 51.43               | -18.22           | 33.21              | 40.00           | -6.79              | peak     |                |                 |        |
| 6   | 305.6800       | 38.33               | -14.56           | 23.77              | 47.00           | -23.23             | peak     |                |                 |        |

|            |                 |                      |                 |
|------------|-----------------|----------------------|-----------------|
| Job No.:   | AT0116121505E   | Polarization:        | Horizontal      |
| Standard:  | (RE)EN 55032_3m | Power Source:        | DC 3.7V         |
| Test item: | Radiation Test  | Temp.(°C)/Hum.(%RH): | 24.3( °C)/55%RH |
| Note:      | Full Load       | Distance:            | 3m              |



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|---------------|-----------------|----------|-------------|--------------|--------|
| 1   | 30.0000     | 44.97            | -16.95        | 28.02           | 40.00         | -11.98          | peak     |             |              |        |
| 2   | 36.3813     | 38.68            | -13.21        | 25.47           | 40.00         | -14.53          | peak     |             |              |        |
| 3   | 131.2965    | 55.95            | -22.90        | 33.05           | 40.00         | -6.95           | peak     |             |              |        |
| 4   | 175.0365    | 55.91            | -22.20        | 33.71           | 40.00         | -6.29           | peak     |             |              |        |
| 5   | 218.3085    | 52.92            | -20.17        | 32.75           | 40.00         | -7.25           | peak     |             |              |        |
| 6   | 300.3672    | 51.27            | -17.65        | 33.62           | 47.00         | -13.38          | peak     |             |              |        |

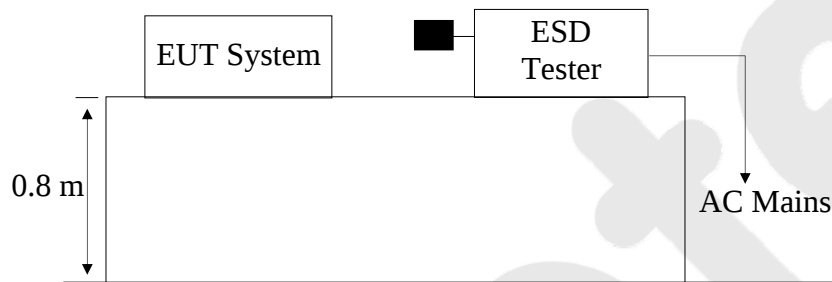
### 3. ELECTROSTATIC DISCHARGE IMMUNITY TEST

#### 3.1. Block Diagram of Test Setup

##### 3.1.1. Block diagram of connection between the EUT and simulators



##### 3.1.2. Block diagram of test setup



#### 3.2. Measuring Standard

EN 55024: 2010+A1: 2015

IEC 61000-4-2

Severity Level: 3 / Air Discharge:  $\pm 8$  kV Level: 2 / Contact Discharge:  $\pm 4$  kV

#### 3.3. Severity Levels and Performance Criterion

##### 3.3.1. Severity level

| Level | Test Voltage<br>Contact Discharge (kV) | Test Voltage<br>Air Discharge (kV) |
|-------|----------------------------------------|------------------------------------|
| 1.    | $\pm 2$                                | $\pm 2$                            |
| 2.    | $\pm 4$                                | $\pm 4$                            |
| 3.    | $\pm 6$                                | $\pm 8$                            |
| 4.    | $\pm 8$                                | $\pm 15$                           |
| X     | Special                                | Special                            |

##### 3.3.2. Performance criterion: **B**

#### 3.4. EUT Configuration

The following equipments are installed on electrostatic discharge immunity measurement to meet EN 55024 requirements and operating in a manner which

tends to maximize its emission characteristics in a normal application.

### 3.5. Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 2.5 except the test set up replaced by Section 3.1.

### 3.6. Test Procedure

#### 3.6.1. Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 100 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed

#### 3.6.2. Contact Discharge:

All the procedure shall be same as Section 3.6.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

#### 3.6.3. Indirect discharge for horizontal coupling plane

At least 50 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

#### 3.6.4. Indirect discharge for vertical coupling plane

At least 50 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

### 3.7. Test Equipment

The following test equipments are used during the Electrostatic Discharge measurement:

| Item | Equipment      | Manufacturer | Model No. | Serial No. | Last Cal.     | Cal. Interval |
|------|----------------|--------------|-----------|------------|---------------|---------------|
| 1.   | ESD Simulators | 3ctest       | ESD-30T   | ES0131505  | Jun. 17, 2016 | 1 Year        |

### 3.8. Measuring Results

**PASS**

Please refer to the following pages

## Electrostatic Discharge Test Results

Shenzhen Anbotek Compliance Laboratory Limited

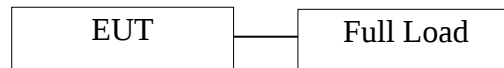
| Test Mode                                                                           | : Charging, Full Load | Temperature                                       | : 22℃                                                                                                                     |
|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Air discharge                                                                       | : ±8.0kV              | Humidity                                          | : 58%                                                                                                                     |
| Contact discharge:                                                                  | ±4.0kV                | Criterion required                                | : B                                                                                                                       |
| Power Supply:                                                                       | DC 5V/ DC 3.7V        | Number of discharging                             | : 10                                                                                                                      |
| Test Result: <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail |                       |                                                   |                                                                                                                           |
| Location                                                                            |                       | Kind<br>A-Air Discharge<br>C-Contact<br>Discharge | Result                                                                                                                    |
| Slot of the EUT                                                                     | 8 points              | A                                                 | <input checked="" type="checkbox"/> A <input type="checkbox"/> B<br><input type="checkbox"/> C <input type="checkbox"/> D |
| Others                                                                              | 4 points              | A                                                 | <input checked="" type="checkbox"/> A <input type="checkbox"/> B<br><input type="checkbox"/> C <input type="checkbox"/> D |
| USB Port                                                                            | 4 points              | A                                                 | <input checked="" type="checkbox"/> A <input type="checkbox"/> B<br><input type="checkbox"/> C <input type="checkbox"/> D |
| HCP                                                                                 | 4 points              | C                                                 | <input checked="" type="checkbox"/> A <input type="checkbox"/> B<br><input type="checkbox"/> C <input type="checkbox"/> D |
| VCP of front                                                                        | 4 points              | C                                                 | <input checked="" type="checkbox"/> A <input type="checkbox"/> B<br><input type="checkbox"/> C <input type="checkbox"/> D |
| VCP of rear                                                                         | 4 points              | C                                                 | <input checked="" type="checkbox"/> A <input type="checkbox"/> B<br><input type="checkbox"/> C <input type="checkbox"/> D |
| VCP of left                                                                         | 4 points              | C                                                 | <input checked="" type="checkbox"/> A <input type="checkbox"/> B<br><input type="checkbox"/> C <input type="checkbox"/> D |
| VCP of right                                                                        | 4 points              | C                                                 | <input checked="" type="checkbox"/> A <input type="checkbox"/> B<br><input type="checkbox"/> C <input type="checkbox"/> D |
|                                                                                     |                       |                                                   |                                                                                                                           |
|                                                                                     |                       |                                                   |                                                                                                                           |

Note: Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

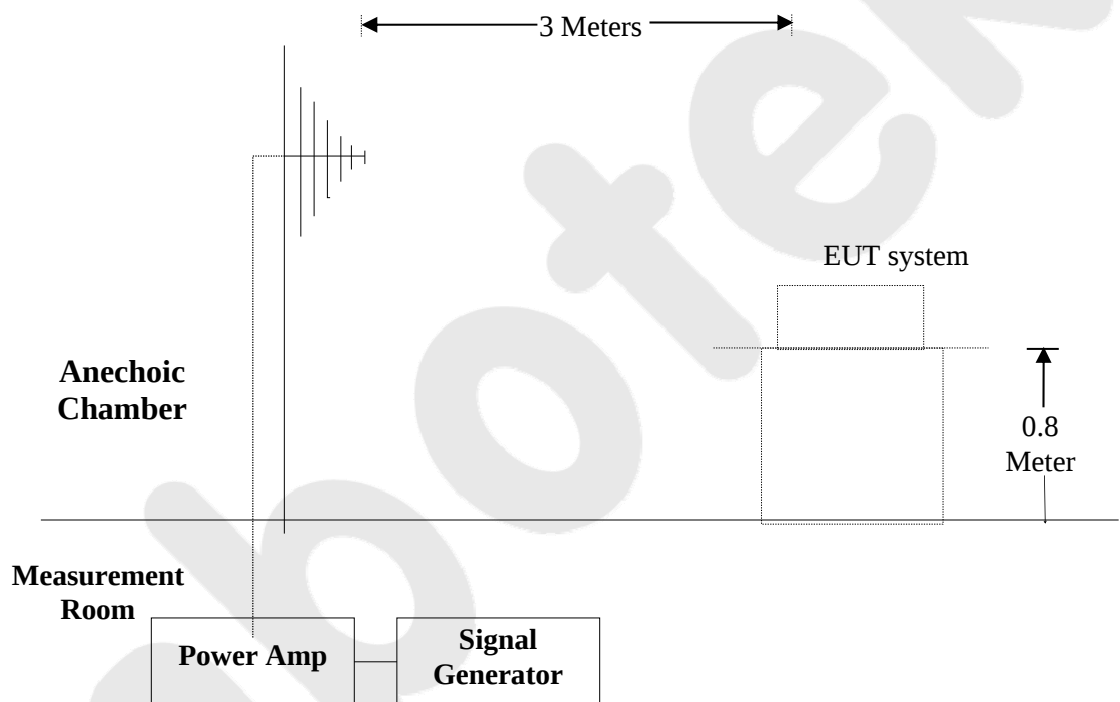
## 4. RF FIELD STRENGTH SUSCEPTIBILITY TEST

### 4.1. Block Diagram of Test

#### 4.1.1. Block diagram of connection between the EUT and simulators



#### 4.1.2. Block diagram of RS test setup



### 4.2. Measuring Standard

EN 55024: 2010+A1: 2015  
IEC 61000-4-3  
Severity Level: 2, 3V / m

### 4.3. Severity Levels and Performance Criterion

#### 4.3.1. Severity Levels

| Level | Field Strength V/m |
|-------|--------------------|
| 1.    | 1                  |
| 2.    | 3                  |
| 3.    | 10                 |
| X     | Special            |

#### 4.3.2. Performance Criterion: A

#### 4.4. EUT Configuration on Test

The following equipments are installed on RF Field Strength susceptibility Measurement to meet EN 55024 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

#### 4.5. Operating Condition of EUT

Same as conducted emission measurement which is listed in Section 2.5. except the test setup replaced as Section 4.1.

#### 4.6. Test Procedure

The EUT are placed on a table which is 0.8 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of the EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a CCD camera is used to monitor its screen.

All the scanning conditions are as following:

| Condition of Test         | Remark                  |
|---------------------------|-------------------------|
| 1. Fielded Strength       | 3V/m (Severity Level 2) |
| 2. Radiated Signal        | Unmodulated             |
| 3. Scanning Frequency     | 80-1000MHz              |
| 4. Sweep time of radiated | 0.0015 Decade/s         |
| 2. Dwell Time             | 1 Sec.                  |

#### 4.7. Test Equipment

The following test equipments are used during the R/S (Shenzhen EMTEK) measurement:

| Item | Equipment                    | Manufacturer | Model No.    | Serial No.  | Last Cal.    | Cal. Interval |
|------|------------------------------|--------------|--------------|-------------|--------------|---------------|
| 1.   | RF Power Meter. Dual Channel | BOONTON      | 4232A        | 10539       | May 29, 2016 | 1 year        |
| 2.   | 50ohm Diode Power Sensor     | BOONTON      | 51011EMC     | 34236/34238 | May 29, 2016 | 1 year        |
| 3.   | Broad-Band Horn Antenna      | SCHWARZBECK  | BBHA9120 L3F | 332         | May 29, 2016 | 1 year        |
| 4.   | Power Amplifier              | PRANA        | AP32MT215    | N/A         | May 29, 2016 | 1 year        |
| 5.   | Power Amplifier              | MILMEGA      | AS0102-55    | N/A         | May 29, 2016 | 1 year        |
| 6.   | Signal Generator             | AEROFLEX     | 2023B        | N/A         | May 29, 2016 | 1 year        |
| 7.   | Field Strength Meter         | HOLADAY      | HI-6005      | N/A         | May 29, 2016 | 1 year        |
| 8.   | RS232 Fiber Optic Modem      | HOLADAY      | HI-4413P     | N/A         | May 29, 2016 | 1 year        |
| 9.   | Log.-Per. Antenna            | SCHWARZBECK  | VULP 9118E   | N/A         | May 29, 2016 | 1 year        |

#### 4.8. Measuring Results

**PASS**

Please refer to the following page.

## RF Field Strength Susceptibility Test Results

Shenzhen Anbotech Compliance Laboratory Limited

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Test Mode : Charging, Full Load | Temperature : 25°C                    |
| Field Strength : 3 V/m          | Humidity : 54%                        |
| Criterion : A                   | Frequency Range: 80.0 MHz to 1000 MHz |
| Power Supply : DC 5V/ DC 3.7V   | Criterion required : A                |

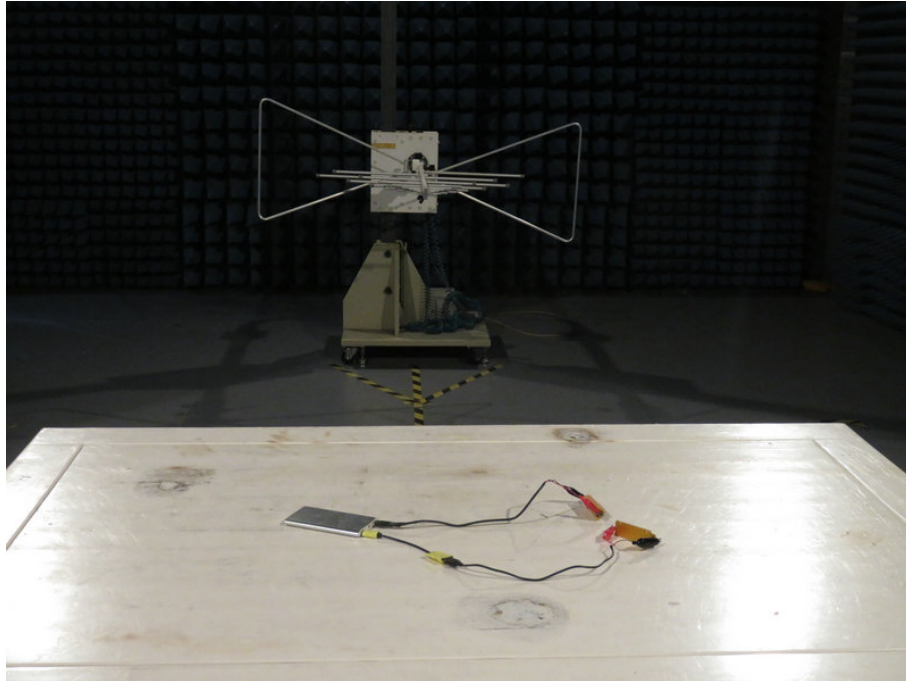
Test Result : ☒ Pass ☐ Fail

|             |                               |                                |                                                                                                                        |
|-------------|-------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Modulation: | <input type="checkbox"/> None | <input type="checkbox"/> Pulse | <input checked="" type="checkbox"/> AM 1kHz 80%                                                                        |
|             | Frequency Rang 1: 3 V/m       |                                | Result                                                                                                                 |
| Steps       | #                             | / %                            |                                                                                                                        |
|             | Horizontal                    | Vertical                       |                                                                                                                        |
| Front       | 3 V/m                         | 3 V/m                          |                                                                                                                        |
| Right       | 3 V/m                         | 3 V/m                          |                                                                                                                        |
| Rear        | 3 V/m                         | 3 V/m                          | <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D |
| Left        | 3 V/m                         | 3 V/m                          | <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D |

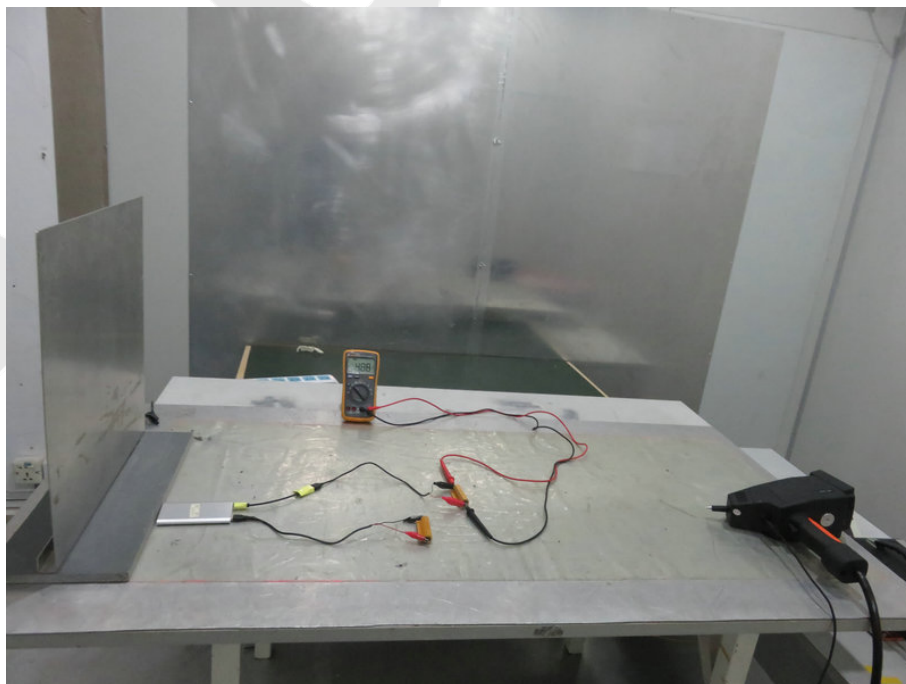
Note: Tested by EMTEK.

## 5. PHOTOGRAPHS

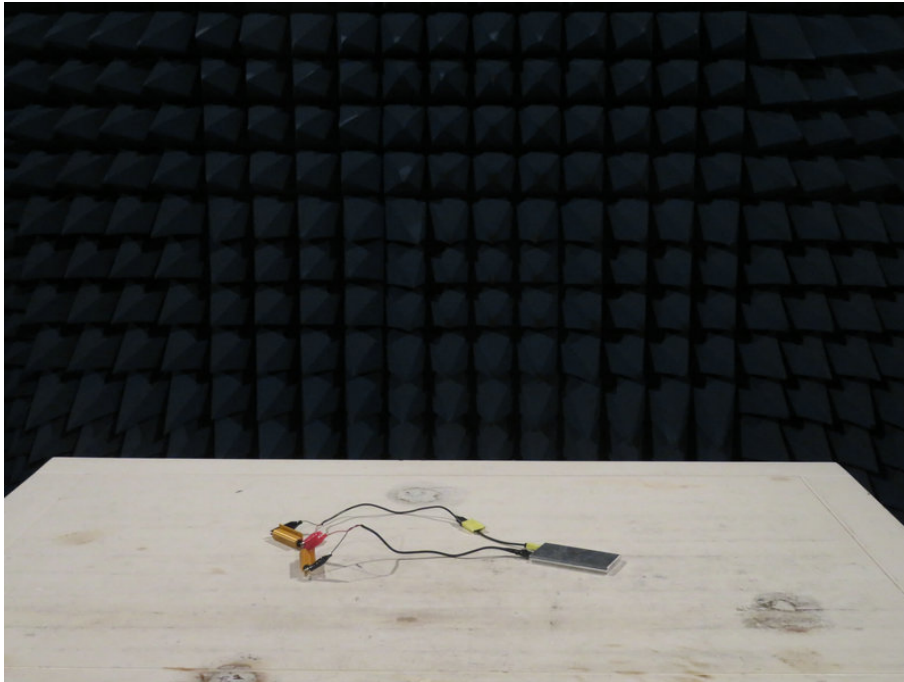
### 5.1. Photo of Radiated Emission Test



### 5.2. Photo of Electrostatic Discharge Test



### 5.3. Photo of RF Field Strength susceptibility Test



## APPENDIX I (Photos of EUT)

Figure 1  
The EUT- Top View

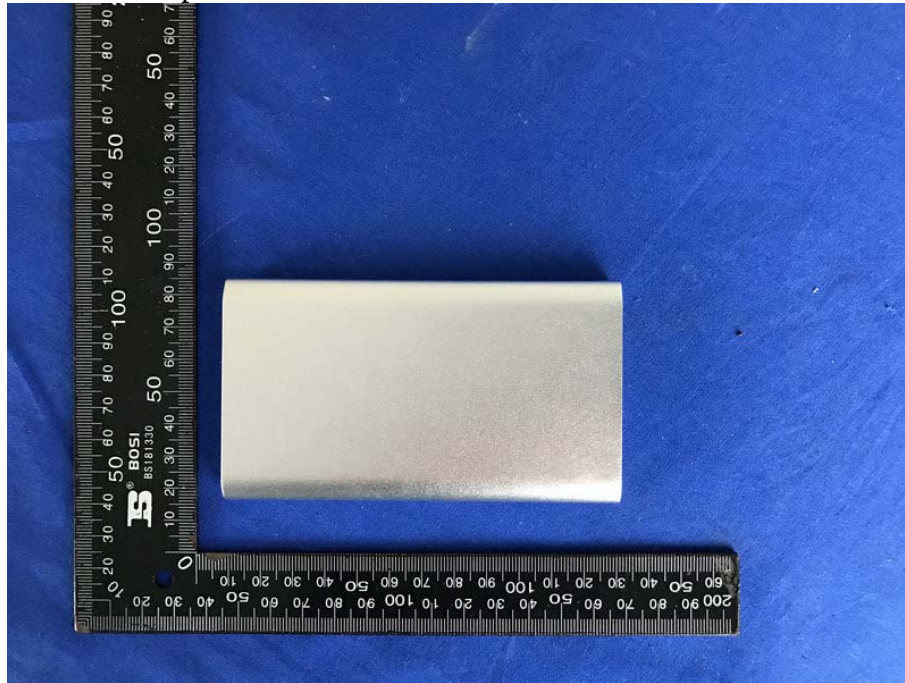


Figure 2  
The EUT- Front View



Figure 3  
The EUT- Back View



Figure 4  
The EUT- Inside View

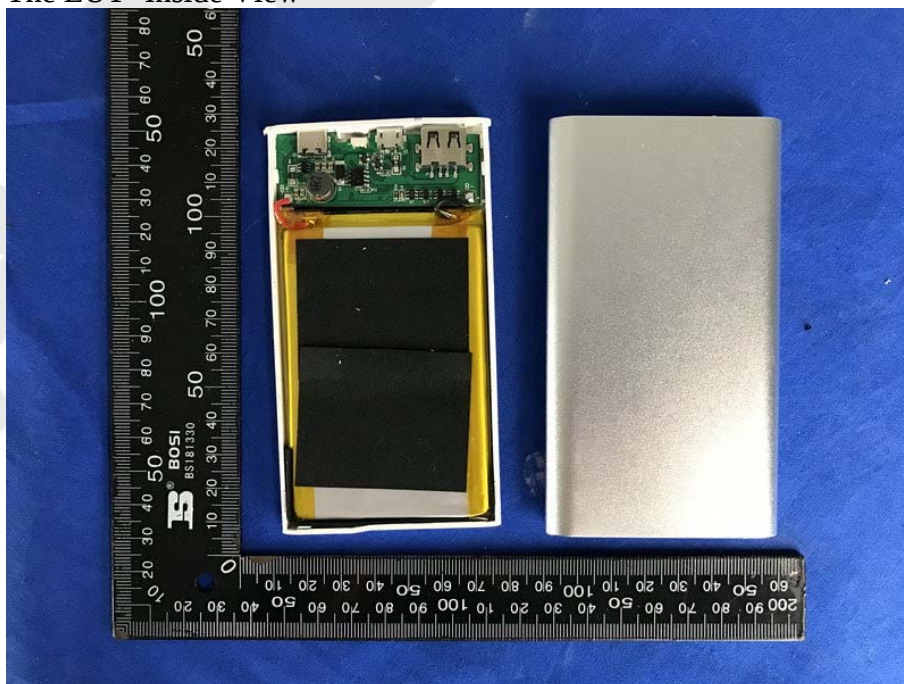


Figure 5  
The EUT- Inside View

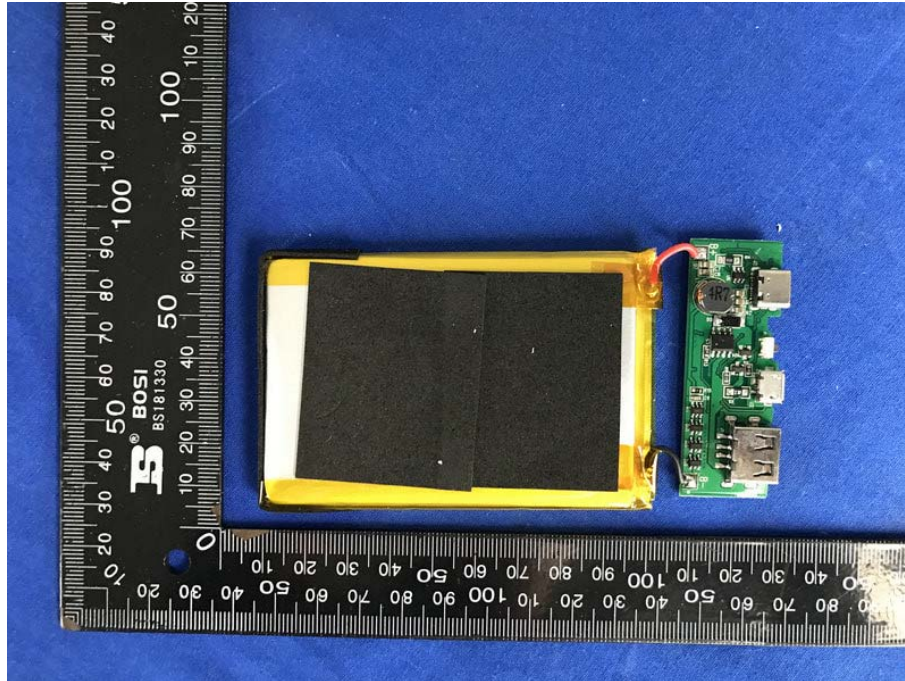


Figure 6  
The EUT- Inside View

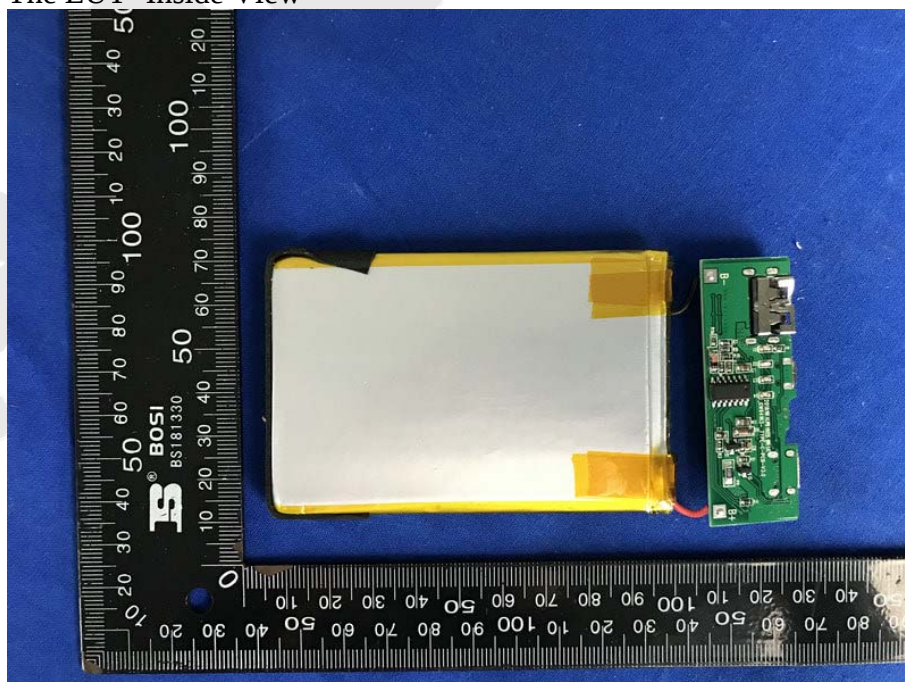


Figure 7  
PCB of The EUT View

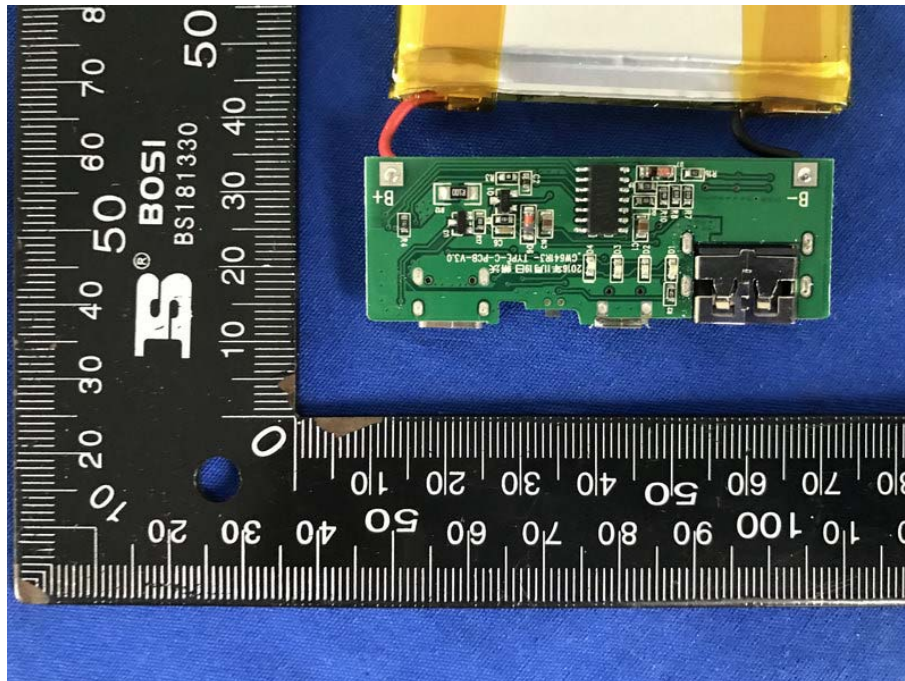
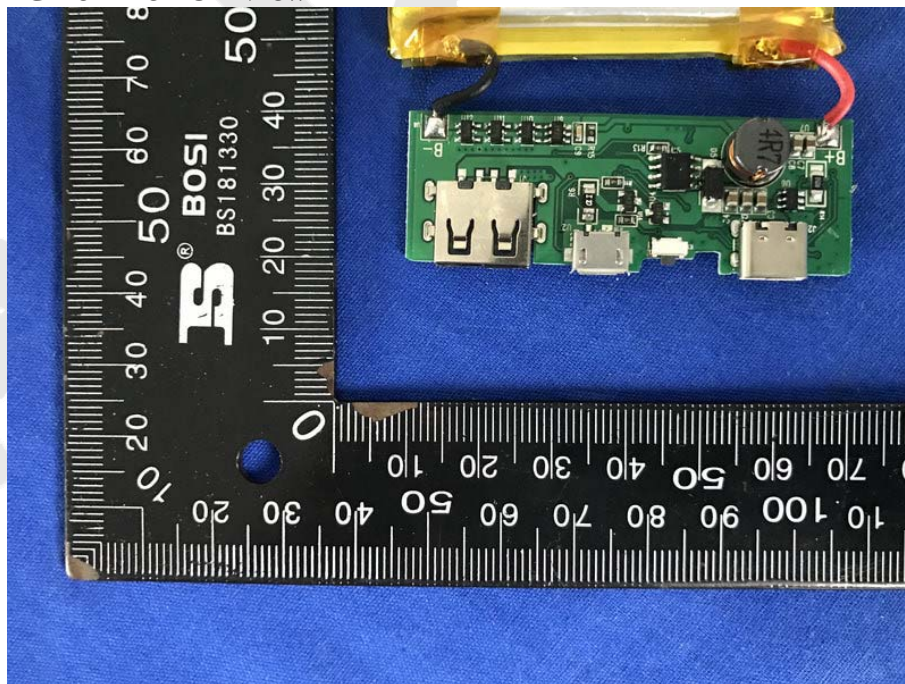


Figure 8  
PCB of The EUT View



### **CE Label**

1. The CE conformity marking must consist of the initials 'CE' taking the following form:  
If the CE marking is reduced or enlarged, the proportions given in the above graduated drawing must be respected.
2. The CE marking must have a height of at least 5 mm except where this is not possible on account of the nature of the apparatus.
3. The CE marking must be affixed to the product or to its data plate. Additionally it must be affixed to the packaging, if any, and to the accompanying documents.
4. The CE marking must be affixed visibly, legibly and indelibly.  
It must have the same height as the initials 'CE'.