

# EMC Test Report

Report No.: AGC07477160802EE01

**PRODUCT DESIGNATION** : Portfolio with 5000mAh power bank  
**BRAND NAME** : B1267  
**MODEL NAME** : B1267  
**CLIENT** : XXXXXXXXXX  
**DATE OF ISSUE** : Aug.08, 2016  
**STANDARD(S)** : EN 55022:2010/AC:2011  
: EN 55024:2010/A1:2015  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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### Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug.08, 2016	Valid	Extension Report

**Note:** The model is identical to the basic model in the report AGC07477160701EE01, except for the product name, brand and model name.

So the below test result same as the basic model in the report AGC07477160701EE01, for more information, please refer to the original report.

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# 1. VERIFICATION OF CONFORMITY

Applicant	
Address	DONGGUAN CHINA
Manufacturer	
Address	DONGGUAN CHINA
Product Designation	Portfolio with 5000mAh power bank
Brand Name	B1267
Test Model	B1267
Date of test	Jul.24, 2016 to Jul.26, 2016
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-EC-IT/DC(2013-03-01)

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements. The test results of this report relate only to the tested sample identified in this report.

Tested By

  
 Erik Yang(Yang Jianmin)

Aug.08, 2016

Reviewed By

  
 Stone Zhou(Zhou Dong)

Aug.08, 2016

Approved By

  
 Solger Zhang(Zhang Hongyi)  
 Authorized Officer

Aug.08, 2016

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## 2. SYSTEM DESCRIPTION

TEST MODE DESCRIPTION		
NO.	TEST MODE DESCRIPTION	WORST
1	Discharging	V
2	Charging	--
Note: 1. V means EMI worst mode 2. Only worst mode data recorded in the test report.		

## 3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by ISO.

- Uncertainty of Radiated Emission,  $U_c = \pm 3.2$  dB

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#### 4. PRODUCT INFORMATION

Housing Type	Plastic and metal
EUT Input Rating	DC 5V 1A
EUT Output Rating	DC 5V 2.1A

I/O Port Information (☒Applicable ☐Not Applicable)

I/O Port of EUT			
I/O Port Type	Number	Cable Description	Tested With
Micro B	1	N/A	1
USB	1	0.15m unshielded	1

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## 5. SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Resistor	--	--	--	--	--
Multimeter	VICTOR	VC9808	--	--	--

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## 6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	B112-B113, Building 12, Baoan Building Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen, Guangdong, P.R.China

### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	2016.07.01	2017.06.30
ANTENNA	SCHWARZBECK	VULB9168	494	2016.03.01	2018.02.28

### TEST EQUIPMENT OF ESD TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
ESD Simulator	Schaffner	NSG 438	782	2015.11.18	2016.11.17

### TEST EQUIPMENT OF RS IMMUNITY TEST

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
SIGNAL GENERATOR	R&S	E4421B	102525	2016.07.01	2017.06.30
ANTENNA	SCHWARZBECK	VULB9168	VULB9168-494	2016.03.01	2018.02.28
POWER SENSOR	R&S	URV5-Z4	100124	2015.07.29	2016.07.28
POWER METER	R&S	NRVD	832378/027	2015.07.29	2016.07.28
POWER AMPLIFIER	KALMUS	7100LC	04-02/17-06-001	2016.07.01	2017.06.30
RF AMPLIFIER	Milmega	AS01004-5 5 55	1004793	2016.07.01	2017.06.30

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## 7. TEST ITEMS AND THE RESULTS

Test item	Test Requirement	Test Method	Class/Severity	Result
CONDUCTED EMISSION	EN 55022	EN 55022	Class B	N/A
RADIATED EMISSION	EN 55022	EN 55022	Class B	Pass
Harmonic current emission	EN 61000-3-2	EN 61000-3-2	Class D	N/A
Voltage fluctuations & flicker	EN 61000-3-3	EN 61000-3-3	§5 of EN 61000-3-3	N/A
Electrostatic Discharge Immunity	EN 55024	EN 61000-4-2	± 8.0 kV (Air Discharge) ± 4.0 kV (Contact Discharge) ± 4.0 kV (Indirect Discharge)	Pass
Radiated RF Electromagnetic	EN 55024	EN 61000-4-3	3V/m with 80% AM. 1kHz Modulation.	Pass
Electrical fast transient/burst Immunity	EN 55024	EN 61000-4-4	+/- 1kV for Power Supply Lines	N/A
SURGE IMMUNITY	EN 55024	EN 61000-4-5	+/- 1kV (Line to Line) +/- 2kV (Line to Ground)	N/A
Immunity to Conducted Disturbances Induced by RF fields	EN 55024	EN 61000-4-6	3V with 80% AM. 1 kHz Modulation	N/A
Voltage dips and short interruptions immunity	EN 55024	EN 61000-4-11	0 degrees	N/A

**Note :** N/A means not applicable.

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## 8. EN 55022 RADIATED EMISSION TEST

### 8.1. LIMITS OF RADIATED DISTURBANCES

#### AT 10M DISTANCES

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m Q.P.)
30-230	10	30.00
230-1000	10	37.00

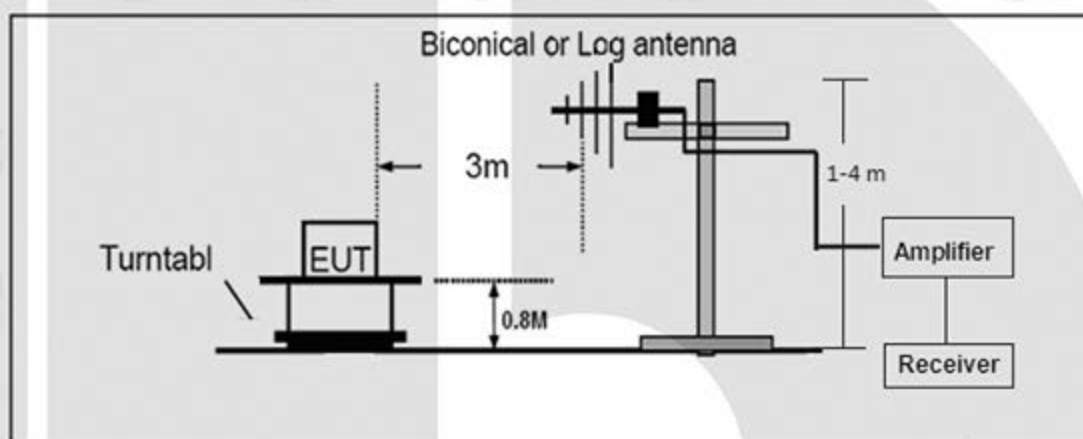
#### AT 3M DISTANCES

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m Q.P.)
30-230	3	40.00
230-1000	3	47.00

Note: The lower limit shall apply at the transition frequency.

### 8.2. BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators



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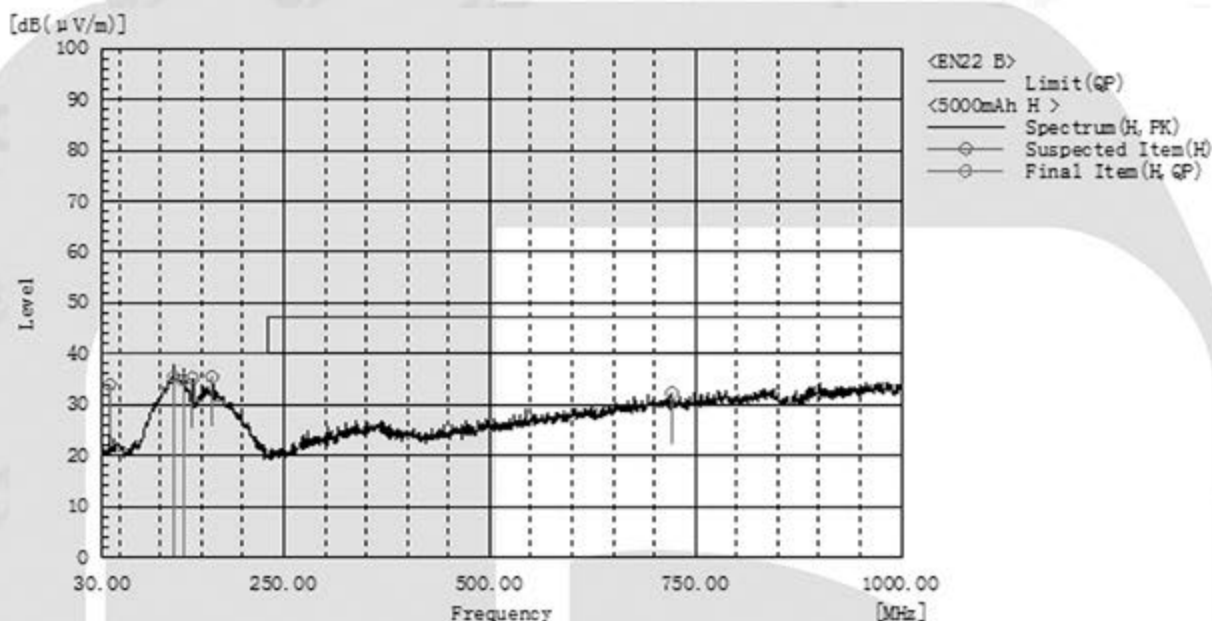
### 8.3. PROCEDURE OF RADIATED EMISSION TEST

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per EN 55022 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per EN 55022.
- (3) All I/O cables were positioned to simulate typical actual usage as per EN 55022.
- (4) The EUT was discharged from a resistor. All support equipments received AC230V/50Hz power from socket under the turntable, if any.
- (5) The antenna was placed at 3 meter away from the EUT as stated in EN 55022. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- (6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- (7) The test mode(s) were scanned during the test:
- (8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.

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#### 8.4. TEST RESULT OF RADIATED EMISSION TEST

##### Radiated Emission Test at 3m Distance-Horizontal



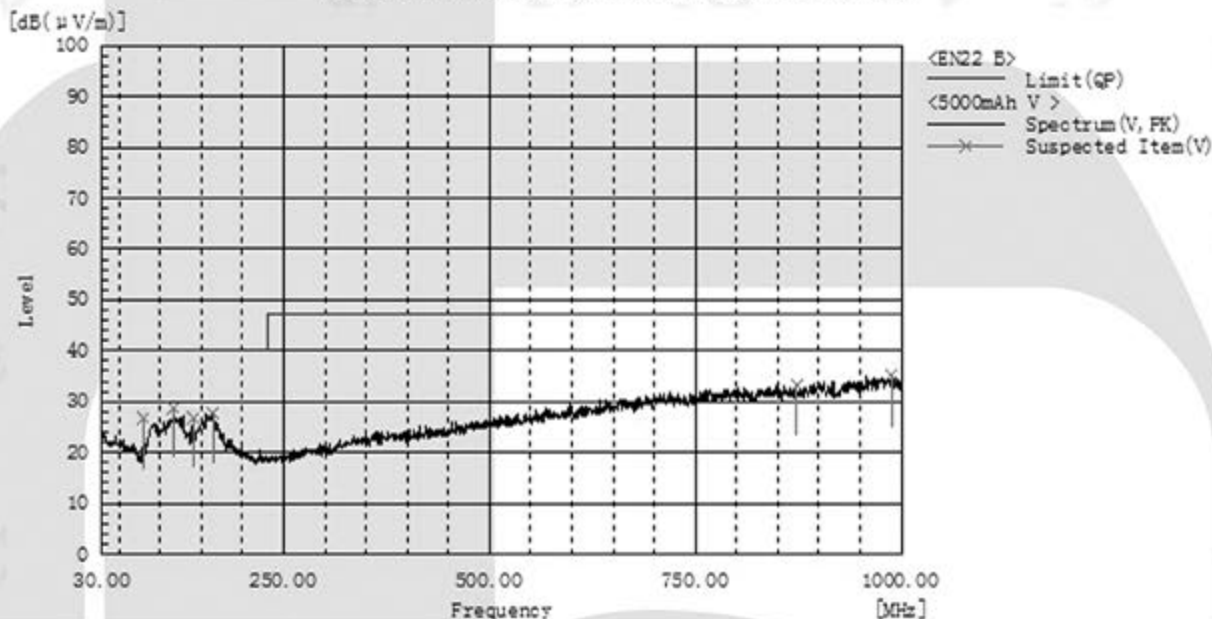
Frequency MHz	Polarization	Reading dB(μV)	Factor dB (1/m)	Level dB(μV/m) PK	Limit dB(μV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
38.730	H	18.6	15.3	33.9	40.0	6.1	Pass	200.0	16.8
139.610	H	18.9	16.4	35.3	40.0	4.7	Pass	200.0	16.8
162.890	H	18.5	17.0	35.5	40.0	4.5	Pass	150.0	2.5
721.125	H	6.9	25.4	32.3	47.0	14.7	Pass	200.0	56.5

Frequency MHz	Polarization	Reading dB(μV) QP	Factor dB (1/m)	Level dB(μV/m) QP	Limit dB(μV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
116.815	H	20.6	14.9	35.5	40.0	4.5	Pass	146.3	2.5
127.970	H	19.1	15.8	34.9	40.0	5.1	Pass	151.2	350.5

**RESULT: PASS**

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Radiated Emission Test at 3m Distance-Vertical



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
80.440	V	14.5	12.2	26.7	40.0	13.3	Pass	150.0	18.4
116.330	V	14.5	14.2	28.7	40.0	11.3	Pass	150.0	305.0
140.580	V	10.4	16.5	26.9	40.0	13.1	Pass	200.0	313.3
164.345	V	9.9	17.9	27.8	40.0	12.2	Pass	200.0	64.2
872.930	V	6.4	26.9	33.3	47.0	13.7	Pass	200.0	104.1
987.875	V	6.2	28.9	35.1	47.0	11.9	Pass	150.0	118.1

RESULT: PASS

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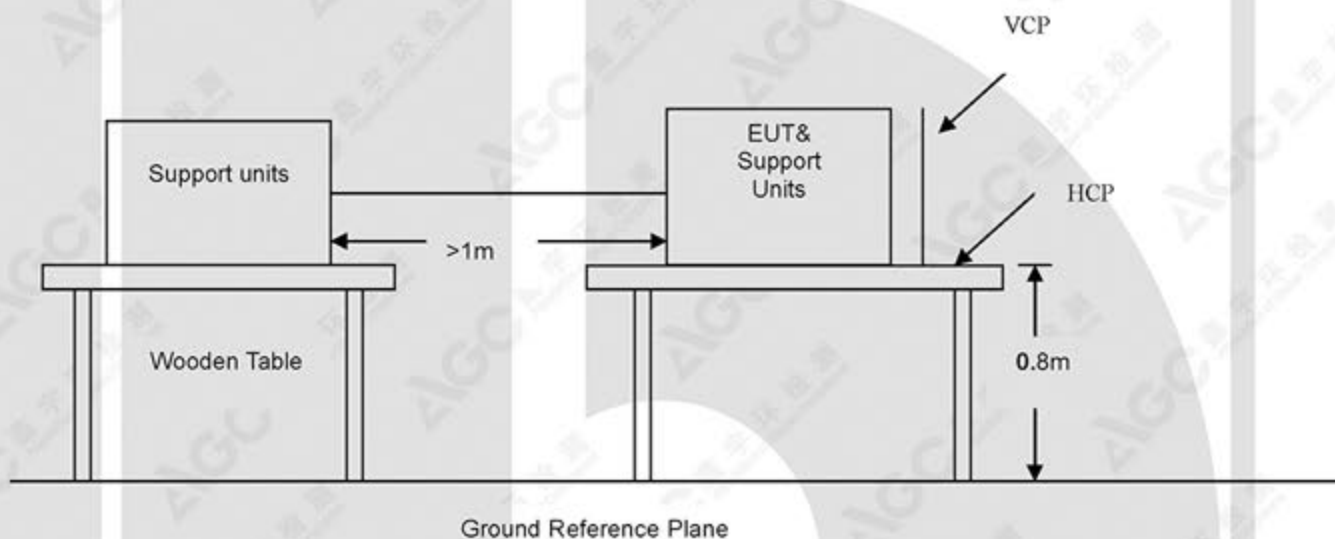
## 9. EN 61000-4-2 ESD IMMUNITY TEST

### ELECTROSTATIC DISCHARGE (ESD) IMMUNITY TEST

Port	Enclosure
Basic Standard	EN 61000-4-2
Test Level	± 8.0 kV (Air Discharge) ± 4.0 kV (Contact Discharge) ± 4.0 kV (Indirect Discharge)
Standard require	B
Tester	Stone
Temperature	24°C
Humidity	50%

#### 9.1. BLOCK DIAGRAM OF TEST SETUP

(The 470 k ohm resistors are installed per standard requirement)



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## 9.2. TEST PROCEDURE

The EUT was located 0.1 m minimum from all side of the HCP.

The support units were located 1 m minimum away from the EUT.

EUT worked with resistance load, and make sure EUT worked normally.

Active the communication function if the EUT with such port(s).

As per the requirement of EN 55024; applying direct contact discharge at the sides other than front of EUT at minimum 50 discharges (25 positive and 25 negative) if applicable, can't be applied direct contact discharge side of EUT then the indirect discharge shall be applied. One of the test points shall be subjected to at least 50 indirect discharge (contact) to the front edge of horizontal coupling plane.

Other parts of EUT where it is not possible to perform contact discharge then selecting appropriate points of EUT for air discharge, a minimum of 10 single air discharges shall be applied.

The application of ESD to the contact of open connectors is not required.

**Note:** As per the A2 to EN 61000-4-2, a bleed resistor cable is connected between the EUT and HCP during the test.

The electrostatic discharges were applied as follows:

Voltage	Coupling	Test Performance	Result
±4kV	Contact Discharge	No function loss	A
±4kV	Indirect Discharge HCP (Front)	No function loss	A
±4kV	Indirect Discharge HCP (Left)	No function loss	A
±4kV	Indirect Discharge HCP (Back)	No function loss	A
±4kV	Indirect Discharge HCP (Right)	No function loss	A
±4kV	Indirect Discharge VCP (Front)	No function loss	A
±4kV	Indirect Discharge VCP (Left)	No function loss	A
±4kV	Indirect Discharge VCP (Back)	No function loss	A
±4kV	Indirect Discharge VCP (Right)	No function loss	A
±8kV	Air Discharge	No function loss	A

## 9.3. PERFORMANCE & RESULT

<b>Criteria A:</b>	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
<b>Criteria B:</b>	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
<b>Criteria C:</b>	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

☒ **PASS**
☐ **FAIL**

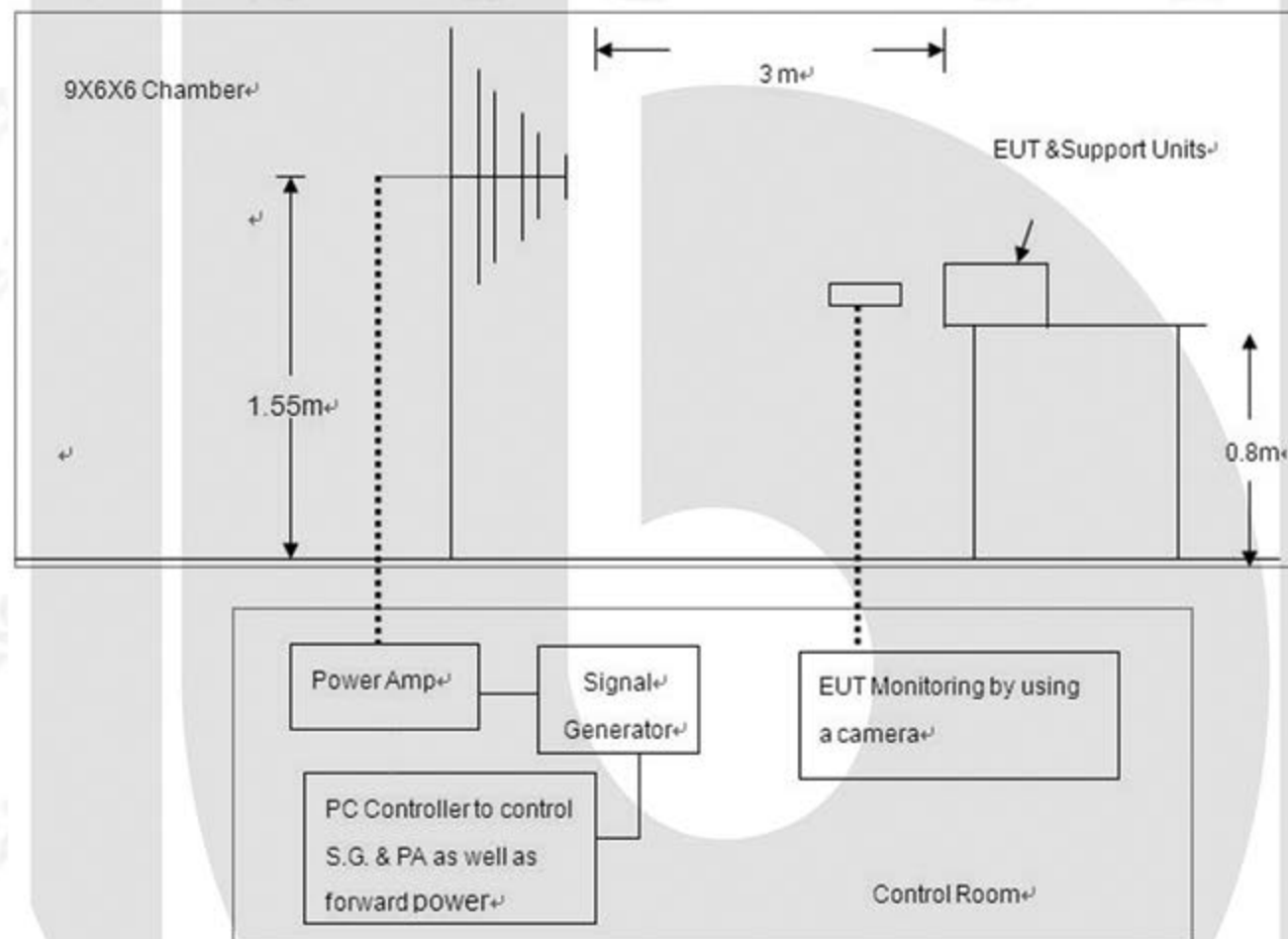
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# 10. EN 61000-4-3 RS IMMUNITY TEST

## RADIATED ELECTROMAGNETIC FIELD IMMUNITY TEST

Port	Enclosure
Basic Standard	EN 61000-4-3
Test Level:	3V/m with 80% AM. 1kHz Modulation.
Standard require	A
Tester	Stone
Temperature	25°C
Humidity	55%

### 10.1. BLOCK DIAGRAM OF TEST SETUP



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## 10.2. TEST PROCEDURE

The EUT was located at the edge of supporting table keep 3 meter away from transmitting antenna, it just the calibrated square area of field uniformity. The support units were located outside of the uniformity area, but the cable(s) connected with EUT were exposed to the calibrated field as per EN 61000-4-3.

EUT worked with resistance load, and make sure EUT worked normally.

Setting the testing parameters of RS test software per EN 61000-4-3.

Performing the test at each side of with specified level (3V/m) at 1% steps and test frequency from 80MHz to 1000MHz

Recording the test result in following table.

### EN 61000-4-3 Final test conditions:

Test level: 3V/m

Steps: 1 % of fundamental

Dwell Time: 1 sec

Range (MHz)	Field	Modulation	Polarity	Position	Test Performance	Result
80-1000	3V/m	AM	H	Front	No function loss	A
80-1000	3V/m	AM	H	Left	No function loss	A
80-1000	3V/m	AM	H	Back	No function loss	A
80-1000	3V/m	AM	H	Right	No function loss	A
80-1000	3V/m	AM	V	Front	No function loss	A
80-1000	3V/m	AM	V	Left	No function loss	A
80-1000	3V/m	AM	V	Back	No function loss	A
80-1000	3V/m	AM	V	Right	No function loss	A

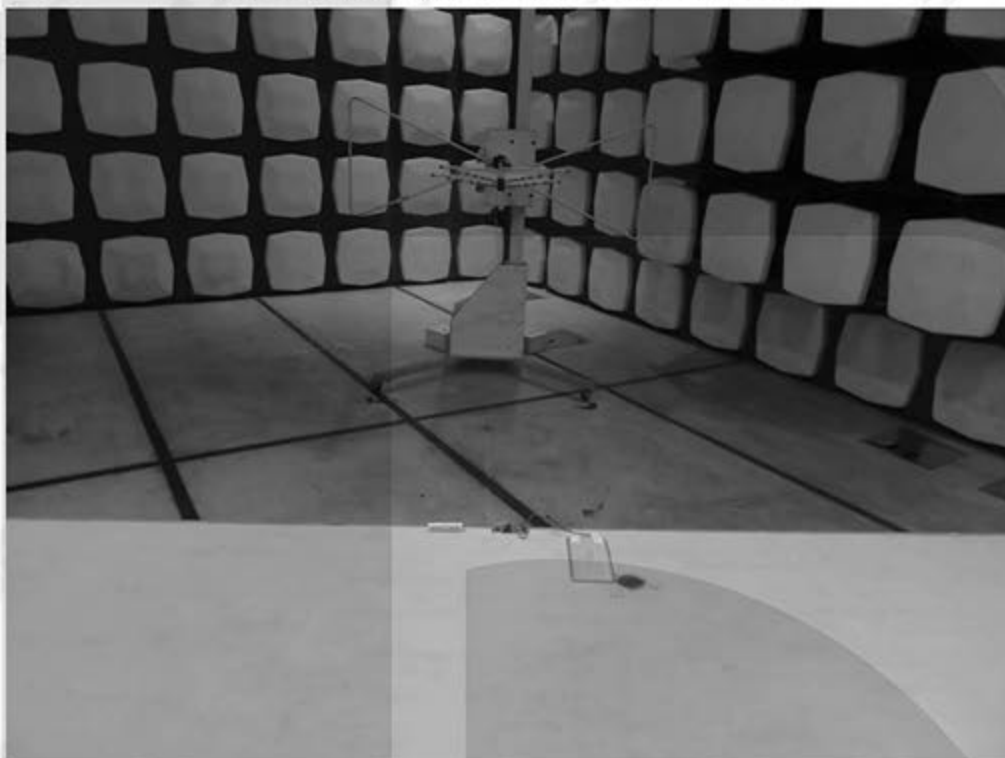
## 10.3. PERFORMANCE & RESULT

<b>Criteria A:</b>	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
<b>Criteria B:</b>	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
<b>Criteria C:</b>	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

☒ **PASS**
☐ **FAIL**

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**APPENDIX A: PHOTOGRAPHS OF TEST SETUP**  
**EN 55022 RADIATED EMISSION TEST SETUP**



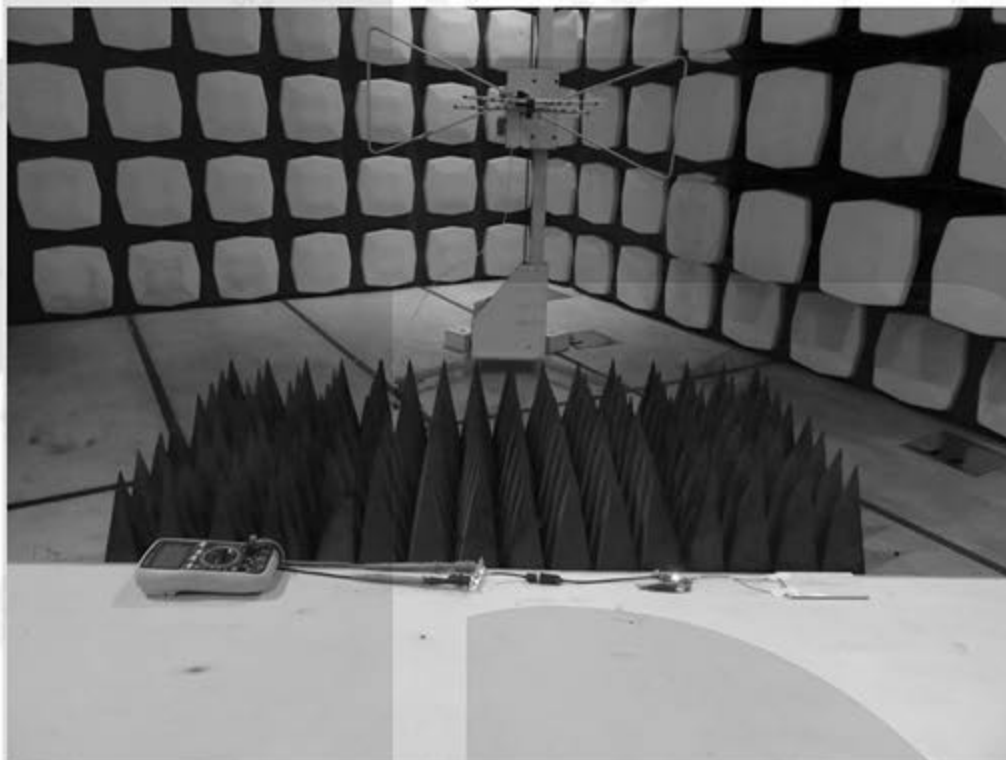
**EN 61000-4-2 ESD IMMUNITY TEST SETUP**



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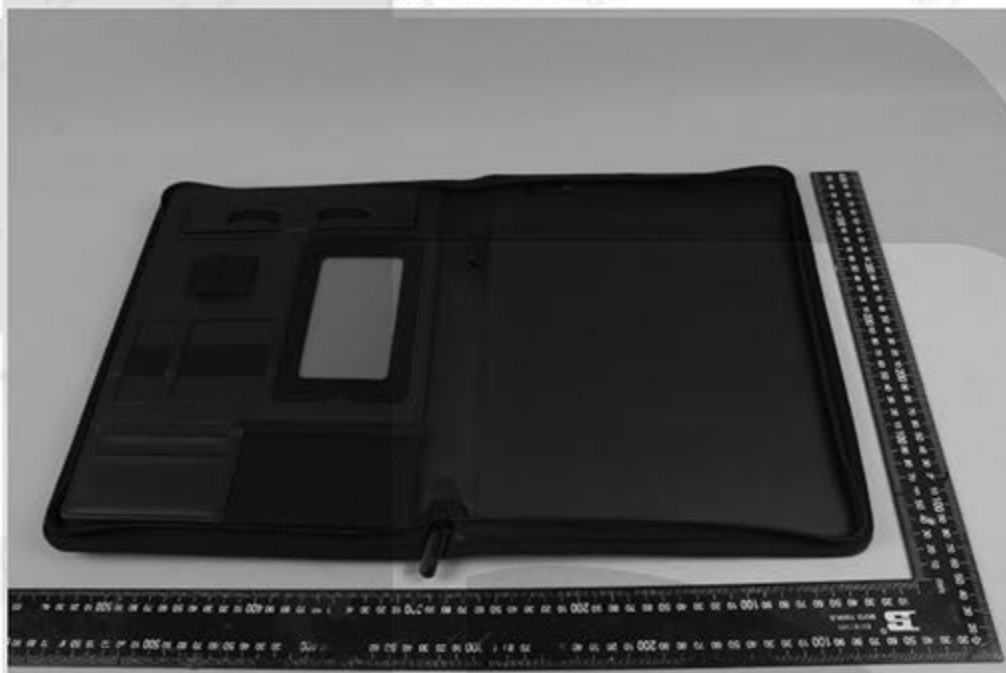
EN 61000-4-3 RS IMMUNITY TEST SETUP



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**APPENDIX B: PHOTOGRAPHS OF EUT**  
**ALL VIEW OF EUT**



**FRONT VIEW OF EUT**

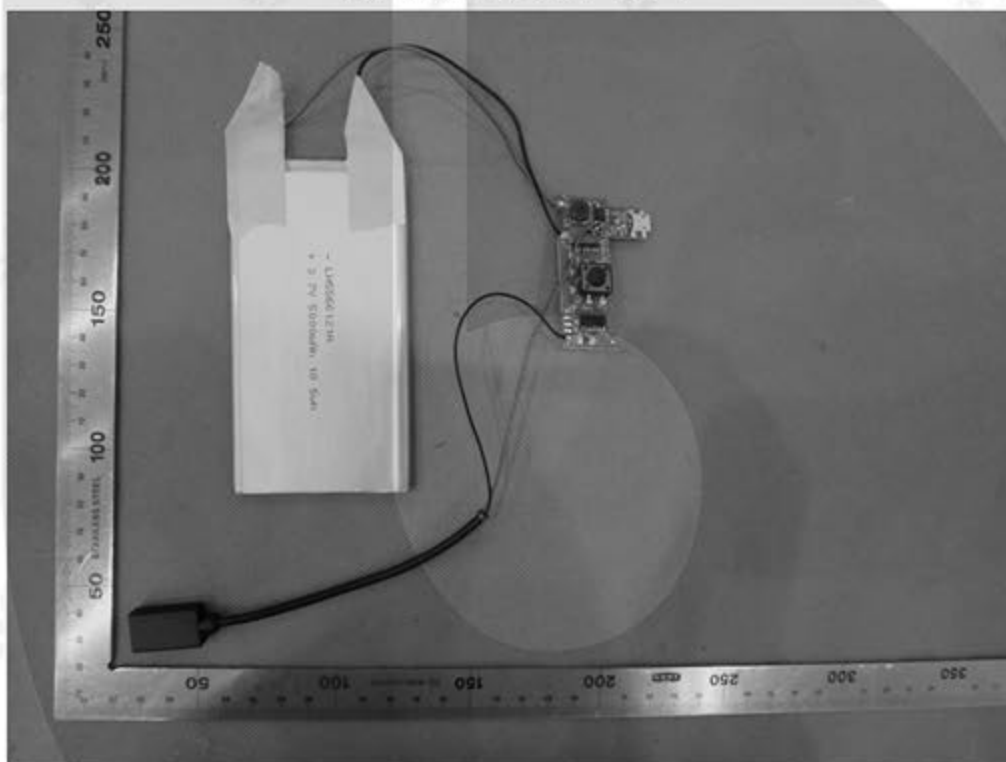


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PORT VIEW OF EUT

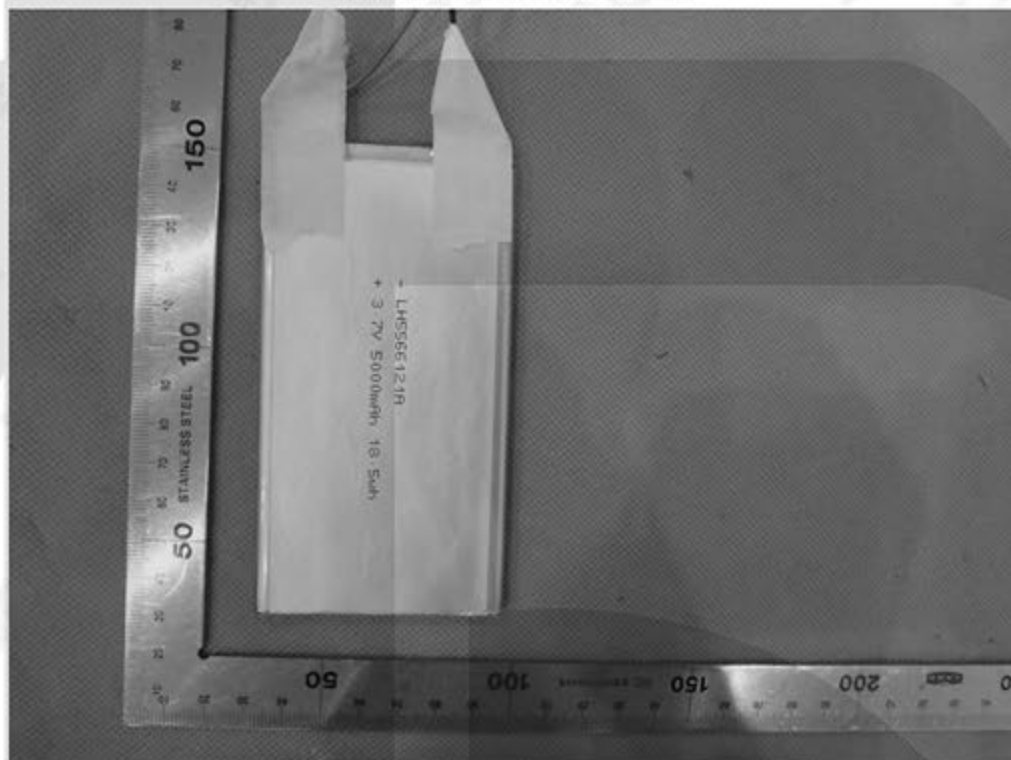


INTERNAL VIEW OF EUT-1

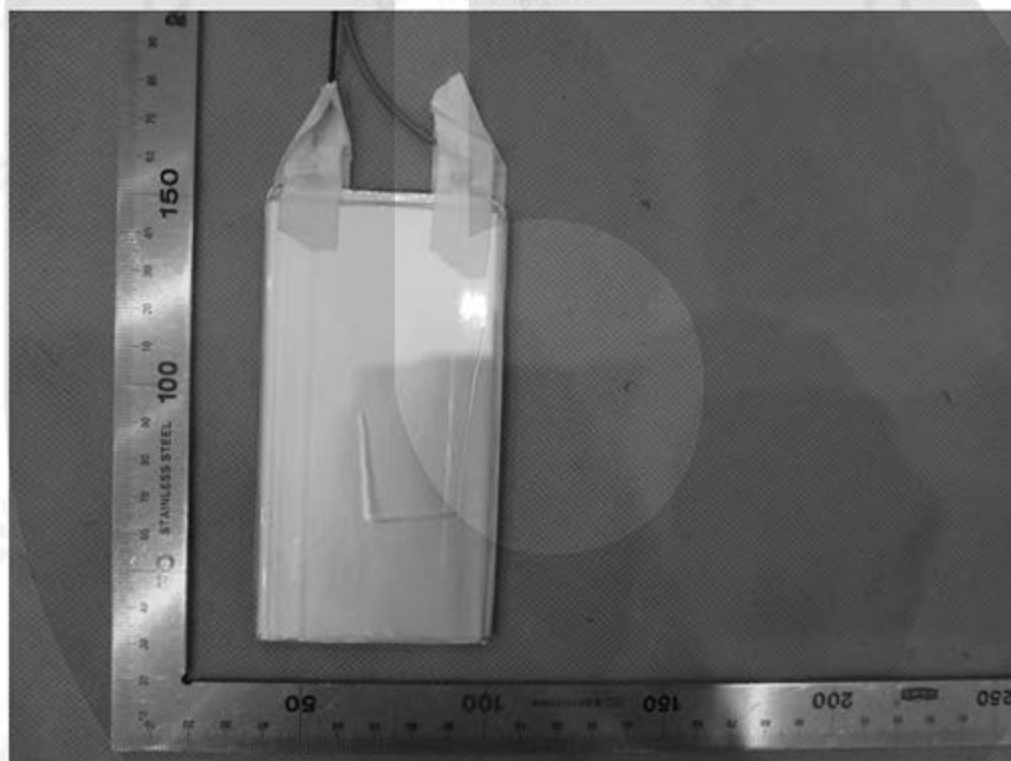


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INTERNAL VIEW OF EUT-2

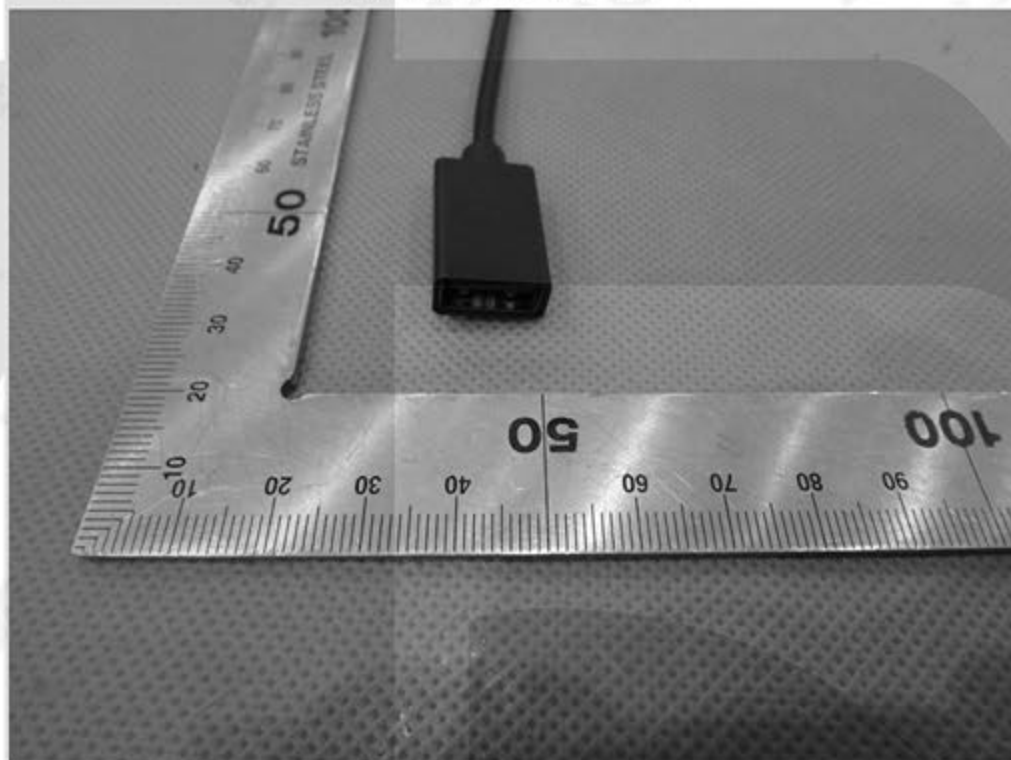


INTERNAL VIEW OF EUT-3

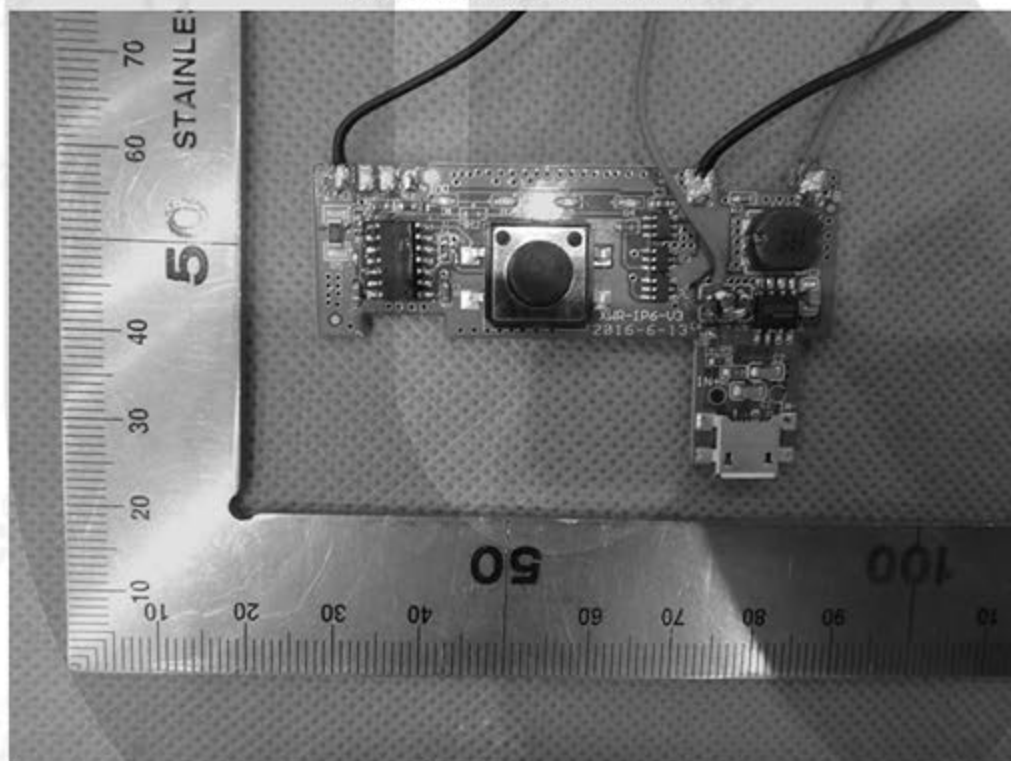


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INTERNAL VIEW OF EUT-4



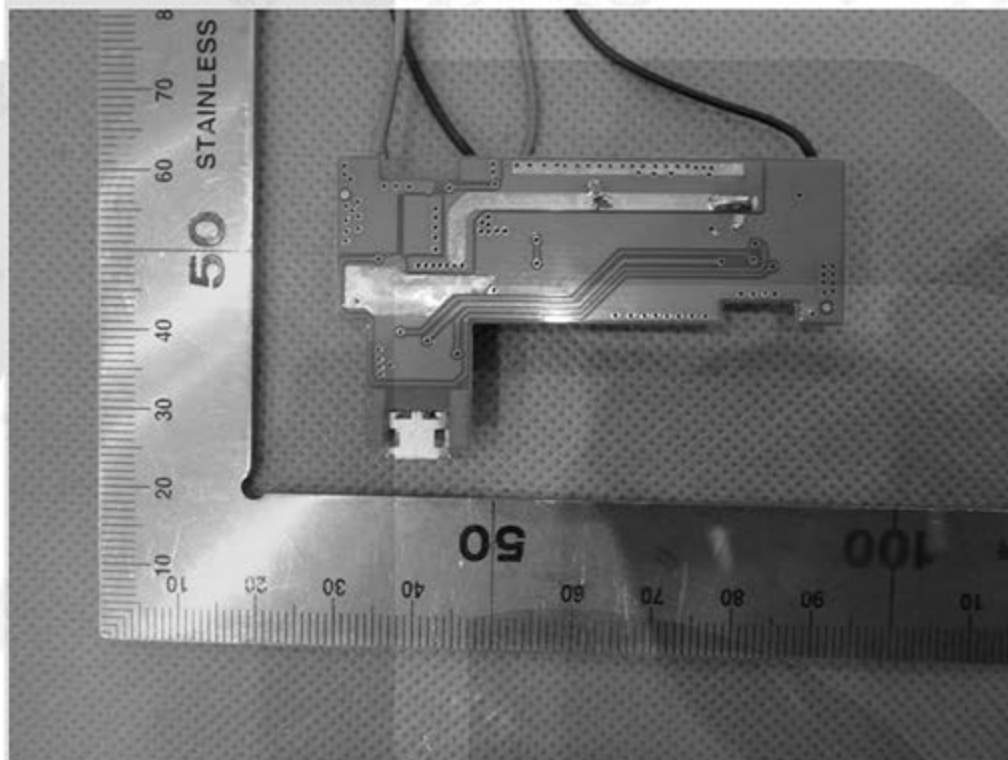
INTERNAL VIEW OF EUT-5



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INTERNAL VIEW OF EUT-6



----END OF REPORT----

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