Report No.: LCS181010012AE

EMC TEST REPORT

For

Power Bank

Test Model: UP-9111

Prepared for	:	
Address	:	
Duaga and have	_	Shanshan LCS Compliance Testing Laboratory Ltd
Prepared by Address	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
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Mail	:	webmaster@LCS-cert.com
Date of receipt of test sample	:	October 11, 2018
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	October 11, 2018 ~ October 15, 2018
Date of Report	:	October 23, 2018

CE

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	EMC TEST REPORT EN 55032: 2015				
Electromagnetic compat	ibility of multimedia equipment - Emis EN 55024: 2010+A1: 2015	ssion requirements			
Information technology equipment-Immunity characteristics-Limits and methods of measurement					
Report Reference No: LCS181010012AE					
Date Of Issue:	October 23, 2018				
Testing Laboratory Name:	Shenzhen LCS Compliance Testin	ig Laboratory Ltd.			
Address: Testing Location/ Procedure:	Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China Full application of Harmonised standards				
	Partial application of Harmonised st. Other standard testing method \Box	andards 🗆			
Applicant's Name:					
Address:					
Test Specification:					
Standard:	EN 55032: 2015				
	EN 55024: 2010+A1: 2015				
Test Report Form No:	LCSEMC-1.0				
TRF Originator:	Shenzhen LCS Compliance Testing Laboratory Ltd.				
Master TRF:	Dated 2011-03				
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Trade Mark:	N/A				
Test Model:	UP-9111				
Ratings:	Input: MICRO USB 5V/2A; TYPEC Output: USBA 5V/2.4A TYPE-C: 5				
Result:	Positive				
Compiled by:	Supervised by:	Approved by:			
Skyuy Shen	Darlag-sin				
Skylly Shen/ File administrators	Davey Xu/ Technique principal	beobge Wanager			
Skylly Shen/ File administrators	Davey Xu/ Technique principal	teo bee Manage			

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Report No.: LCS181010012AE

EMC -- TEST REPORT

Test Report No. : LCS181010012AE

October 23, 2018 Date of issue

Test Model	: UP-9111
EUT	: Power Bank
Applicant	:
Address	
Telephone	: /
Fax	: /
Manufacturer	:
Address	:
Telephone	: /
Fax	: /
Factory	:
Address	
Telephone	
Fax	: /

Test Result according to the standards on page 6: **Positive**

The test report merely corresponds to the test sample.

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Revision History

Revision	Issue Date	Revisions	Revised By
000	October 23, 2018	Initial Issue	Leo Lee

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1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION (EN 55032: 2015)						
Description of Test Item	Standard	Limits	Results			
Conducted disturbance at mains terminals	EN 55032: 2015	Class B	N/A			
Conducted disturbance at telecommunication port	EN 55032: 2015	Class B	N/A			
Radiated disturbance	EN 55032: 2015	Class B	PASS			
Harmonic current emissions	EN 61000-3-2: 2014	Class A	N/A			
Voltage fluctuations & flicker	EN 61000-3-3: 2013		N/A			
IMMUNITY(EN 55024: 2010+A1: 2015)						
Description of Test Item	Basic Standard	Performance Criteria	Results			
Electrostatic discharge (ESD)	EN 61000-4-2: 2009	В	PASS			
Radio-frequency, Continuous radiated disturbance	EN 61000-4-3: 2006+A2: 2010	А	PASS			
Electrical fast transient (EFT)	EN 61000-4-4: 2012	В	N/A			
Surge (Input a.c. power ports)	EN 61000-4-5:2014+A1:2017	В	N/A			
Surge (Telecommunication ports)	EN 61000-4-5.2014+A1.2017	В	N/A			
Radio-frequency, Continuous conducted disturbance	EN 61000-4-6: 2014	А	N/A			
Power frequency magnetic field	EN 61000-4-8: 2010	А	PASS			
Voltage dips, >95% reduction		В	N/A			
Voltage dips, 30% reduction	EN 61000-4-11:2004+A1:2017	В	N/A			
Voltage interruptions		С	N/A			
N/A is an abbreviation for Not Applic	able.	1				

Test mode:				
Mode 1	Discharging(5V/2.4A)	Record		
Mode 2	Charging	Pre-scan		
***Note: All test modes were tested, but we only recorded the worst case in this report.				

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1.2.Description of Performance Criteria

General Performance Criteria

Examples of functions defined by the manufacturer to be evaluated during testing include, but are not limited to, the following:

- essential operational modes and states;

— tests of all peripheral access (hard disks, floppy disks, printers, keyboard, mouse, etc.);

- quality of software execution;
- quality of data display and transmission;
- quality of speech transmission.

1.2.1.Performance criterion A

The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacture when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be deliver from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

1.2.2.Performance criterion B

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After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacture, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.

During the test, degradation of performance is allowed. However, no change of operation state or stored data is allowed to persist after the test.

If the minimum performance level (or the permissible performance loss) is not specified by the manufacturer, then either of these may be deliver from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

1.2.3.Performance criterion C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacture's instructions.

Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be loss.

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2. GENERAL INFORMATION

2.1.Description of Device (EUT)

EUT	: Power Bank
Trade Mark	: N/A
Test Model	: UP-9111
Power Supply	: Input: MICRO USB 5V/2A; TYPEC 5V/2A Output: USBA 5V/2.4A TYPE-C: 5V/2.4A

EUT Clock Frequency : \leq 108MHz

2.2.Description of Test Facility

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Site Description EMC Lab.	: FCC Registration Number. is 254912.
	Industry Canada Registration Number. is 9642A-1.
	ESMD Registration Number. is ARCB0108.
	UL Registration Number. is 100571-492.
	TUV SUD Registration Number. is SCN1081.
	TUV RH Registration Number. is UA 50296516-001.
	NVLAP Registration Code is 600167-0.

2.3.Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Test	Parameters	Expanded uncertainty (U _{lab})	Expanded uncertainty (U _{cispr})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 4.0 dB ± 3.6 dB
Power disturbance	Level accuracy (30MHz to 300MHz)	± 2.90dB	± 4.5 dB
Electromagnetic Radiated Emission (3-loop)	Level accuracy (9kHz to 30MHz)	± 3.60 dB	± 2.63 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	± 2.63 dB
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 2.63 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	N/A
Mains Harmonic	Voltage	± 0.510%	N/A
Voltage Fluctuations & Flicker	Voltage	± 0.510%	N/A
EMF		± 21.59%	N/A

(1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

(2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1.Radiated Disturbance (Electric Field)

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2018-06-16
2	EMI Test Receiver	ROHDE & SCHWARZ	ESR 7	101181	2018-06-16
3	By-Log Antenna	SCHWARZBECK	VULB9163	9163-470	2018-05-01
4	EMI Test Software	AUDIX	E3	N/A	2018-06-16
5	Positioning Controller	MF	MF-7082	/	2018-06-16

3.2. Electrostatic Discharge

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ESD Simulator	SCHLODER	SESD 230	604035	2018-06-16

3.3.RF Field Strength Susceptibility

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	RF POWER AMPLIFIER	OPHIR	5225R	1052	NCR		
2	RF POWER AMPLIFIER	OPHIR	5273F	1019	NCR		
3	Stacked Broadband Log Periodic Antenna	SCHWARZBECK	STLP 9128	9128ES-145	NCR		
4	Stacked Mikrowellen LogPer Antenna	SCHWARZBECK	STLP 9149	9149-484	NCR		
5	Signal Generator	Agilent	E4438C	MY42081396	2017-11-17		
6	Electric field probe	Narda S.TS./PMM	Narda S.TS./PMM EP601		2018-03-26		
7	Power Meter	Agilent	E4419B	MY45104493	2018-06-16		
8	Power Sensor	Agilent	E9301H	MY41495234	2018-06-16		
9	Power Sensor	Agilent	E4412A	MY41500229	2018-06-16		
Note: NCR means no calibration requirement							

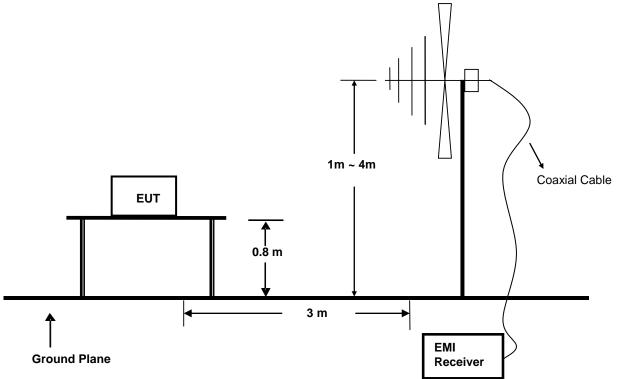
3.4. Power Frequency Magnetic Field Susceptibility

Ite	em	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
	1	Power frequency mag-field generator System	EVERFINE	EMS61000-8K	906003	2018-06-16

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4. RADIATED EMISSION MEASUREMENT

4.1.Block Diagram of Test Setup



4.2.Measuring Standard

EN 55032: 2015

4.3.Radiated Emission Limits

EN 55032 Limits:

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

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT
(MHz)	(Meters)	(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.

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4.4.EUT Configuration on Test

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

4.5.Operating Condition of EUT

4.5.1 Turn on the power.

4.5.2 After that, let the EUT work in test mode Mode 1 and measure it.

4.6.Test Procedure

The EUT is placed on a turntable, which is 0.8 meter high above the ground. The turntable 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. By-log antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The bandwidth of the Receiver is set at 120kHz.

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

4.7.Test Results

PASS.

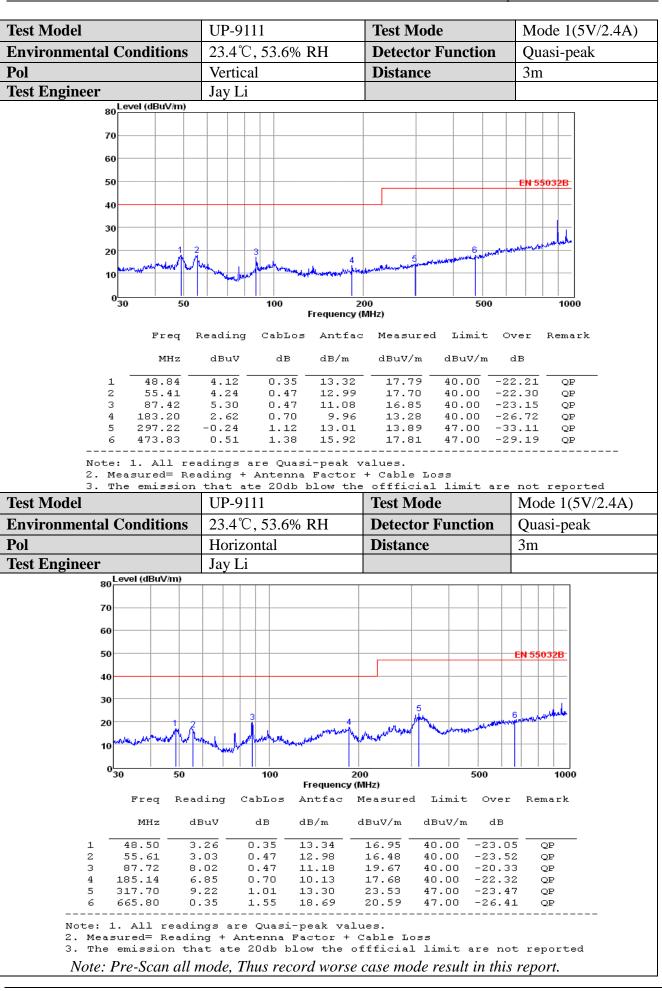
The test result please refer to the next page.

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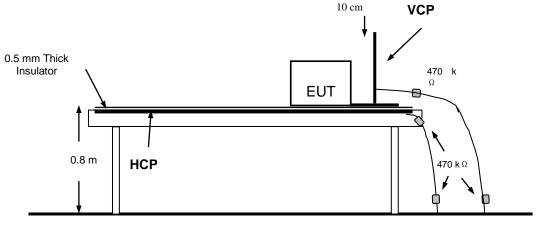
Report No.: LCS181010012AE



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5. ELECTROSTATIC DISCHARGE IMMUNITY TEST

5.1.Block Diagram of Test Setup



Ground

5.2.Test Standard

EN 55024: 2010+A1: 2015,

Severity Level: 3 / Air Discharge: \pm 8KV, Level: 2 / Contact Discharge: \pm 4KV)

5.3. Severity Levels and Performance Criterion

5	2	1	C.			1.		ı I
3	.ว.	1.	Se	eve	rity	It	eve	L

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	± 2	± 2
2.	± 4	± 4
3.	± 6	± 8
4.	± 8	± 15
X	Special	Special

5.3.2.Performance Criterion: B

5.4.EUT Configuration on Test

The configuration of EUT is listed in Section 2.1.

5.5.Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 4.5. Except the test set up replaced by Section 5.1.

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5.6.Test Procedure

5.6.1.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 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed

5.6.2.Contact Discharge

All the procedure shall be same as Section 5.6.1. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

5.6.3.Indirect Discharge For Horizontal Coupling Plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

5.6.4. Indirect Discharge For Vertical Coupling Plane

At least 10 single discharge (in the most sensitive polarity) 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.

5.7.Test Results

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PASS.

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Report No.: LCS181010012AE

Standard	□ IEC 61000-4-2 ☑ EN 61000-4-2					
Applicant	SHENZHEN UNIWINS TECHNOLOGY CO., LTD					
EUT	Power Bank	Temperature	23.8°C			
M/N	UP-9111	Humidity	53.1%			
Criterion	В	Pressure	1021mbar			
Test Mode	Mode 1	Test Engineer	Jay Li			

Air Discharge								
		Test Levels		ŀ	Results			
Test Points	$\pm 2 kV$	$\pm 4 kV$	$\pm 8 \mathrm{kV}$	Passed	Fail	Performance Criterion		
Front	\boxtimes	\square	\boxtimes	\boxtimes		$\Box \mathbf{A} \boxtimes \mathbf{B}$		
Back	\boxtimes	\square	\boxtimes	\boxtimes		$\Box \mathbf{A} \boxtimes \mathbf{B}$		
Left	\boxtimes	\square	\boxtimes	\boxtimes		$\Box A \square B$		
Right	\boxtimes	\square	\boxtimes	\boxtimes		$\Box A \boxtimes B$		
Тор	\boxtimes	\square	\boxtimes	\boxtimes		$\Box \mathbf{A} \boxtimes \mathbf{B}$		
Bottom	\boxtimes		\square	\boxtimes		$\Box A \boxtimes B$		

Contact Discharge

	Test L	evels	Re				
Test Points	$\pm 2 \text{ kV}$	±4 kV	Passed	Fail	Performance		
					Criterion		
Front	\square	\boxtimes	\boxtimes		$\Box \mathbf{A} \boxtimes \mathbf{B}$		
Back	\square	\boxtimes	\boxtimes		$\Box A \boxtimes B$		
Left	\square	\boxtimes	\boxtimes		$\Box A \boxtimes B$		
Right	\square	\boxtimes	\boxtimes		$\Box A \square B$		
Тор	\square	\boxtimes	\boxtimes		$\Box A \boxtimes B$		
Bottom		\square	\square		$\Box A \square B$		

Discharge To Horizontal Coupling Plane

	Test Levels		Results		
Side of EUT	$\pm 2 \text{ kV}$	±4 kV	Passed	Fail	Performance Criterion
Front	\boxtimes	\boxtimes	\boxtimes		$\Box \mathbf{A} \boxtimes \mathbf{B}$
Back	\boxtimes	\boxtimes	\boxtimes		$\Box A \boxtimes B$
Left	\boxtimes	\boxtimes	\boxtimes		$\Box \mathbf{A} \boxtimes \mathbf{B}$
Right	\square	\square	\square		$\Box A \square B$

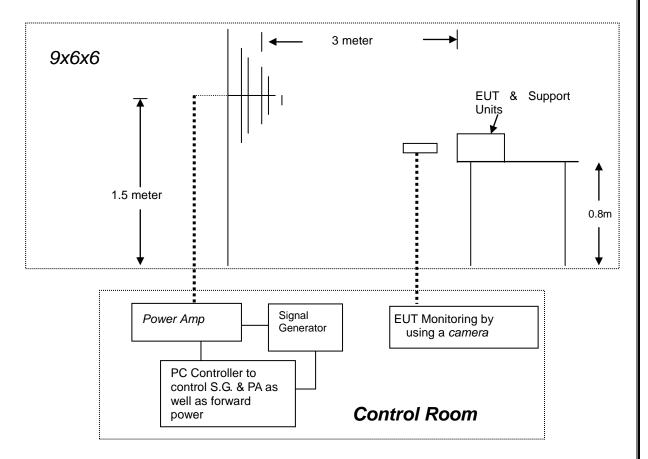
Discharge To Vertical Coupling Plane

Discharge 10 vertical Coupling Flate							
	Test Levels		R				
Side of EUT	$\pm 2 \text{ kV}$	± 4 kV	Passed	Fail	Performance Criterion		
Front	\boxtimes	\boxtimes	\boxtimes		$\Box A \boxtimes B$		
Back	\boxtimes	\boxtimes	\boxtimes		$\Box A \boxtimes B$		
Left	\boxtimes	\boxtimes	\boxtimes		$\Box A \boxtimes B$		
Right	\boxtimes	\boxtimes	\boxtimes		$\Box A \square B$		

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6. RF FIELD STRENGTH SUSCEPTIBILITY TEST

6.1.Block Diagram of Test



6.2.Test Standard

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EN 55024: 2010+A1: 2015,

(EN 61000-4-3: 2006+A2: 2010, Severity Level: 2, 3V / m)

6.3. Severity Levels and Performance Criterion

6.3.1.Severity Levels

Level	Field Strength (V/m)			
1.	1			
2.	3			
3.	10			
Х.	Special			

6.3.2.Performance Criterion: A

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6.4.EUT Configuration on Test

The configuration of the EUT is same as Section 2.1.

6.5. Operating Condition of EUT

Same as radiated emission measurement, which is listed in Section 4.5, except the test setup replaced as Section 6.1.

6.6.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 is 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 Recording is used to monitor its screen. All the scanning conditions are as following:

Condition of Test

- 1. Fielded Strength
- 2. Radiated Signal
- 3. Scanning Frequency
- 4. Sweep time of radiated
- 5. Dwell Time

6.7.Test Results

PASS.

Please refer to the following page.

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3V/m (Severity Level 2) Unmodulated 80-6000MHz 0.0015 Decade/s 3 Sec.

Remark

RF Field Strength Susceptibility Test Results

Standard	□ IEC 61000-4-3 □ EN 61000-4-3				
Applicant	SHENZHEN UNIWINS TECHNOLOGY CO., LTD				
EUT	Power Bank	Temperature	24.3℃		
M/N	UP-9111	Humidity	53.1%		
Field Strength	3 V/m	Criterion	А		
Test Mode	Mode 1	Test Engineer	Jay Li		
Frequency Range	80 MHz to 6000MHz				
Modulation	□None □ Pulse ☑ AM 1KHz 80%				
Steps	1%				

	Horizontal	Vertical		
Front	PASS	PASS		
Right	PASS	PASS		
Rear	PASS	PASS		
Left	PASS	PASS		

Note:

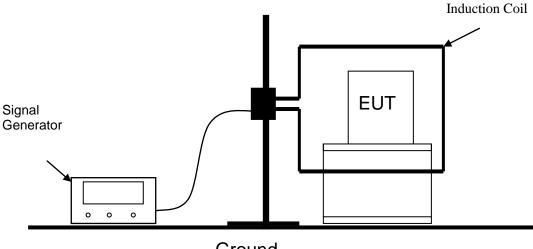
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7. MAGNETIC FIELD SUSCEPTIBILITY TEST

7.1.Block Diagram of Test Setup



Ground

7.2.Test Standard

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EN 55024: 2010+A1: 2015,

(EN 61000-4-8: 2010, Severity Level: Level 1, 1A / m)

7.3. Severity Levels and Performance Criterion

7.3.1.Severity Levels

Level	Field Strength (A/m)		
1	1		
2	3		
3	10		
4	30		
5	100		
Х	Special		

7.3.2.Performance Criterion: A

7.4.EUT Configuration on Test

The configuration of the EUT is same as Section 2.1.

7.5.Test Procedure

The EUT is placed in the middle of a induction coil (1*1m), under which is a 1*1*0.1m (high) table, this small table is also placed on a larger table, 0.8 m above the ground. Both horizontal and vertical polarization of the induction coil is set on test, so that each side of the EUT is affected by the magnetic field. Also can reach the same aim by change the position of the EUT.

7.6.Test Results

PASS.

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Magnetic Field Immunity Test Result						
Standard	□ IEC 61000-4-8 ☑ EN 61000-4-8					
Applicant	SHENZHEN UNIWINS TECHNOLOGY CO., LTD					
EUT	Power Bank		Temperature		23.5℃	
M/N	UP-9111		Humidity		53.2%	
Test Mode	Mode 1		Criterion		А	
Test Engineer	Jay Li					
Test Level (A/M)	Testing Duration	Coil Orientation	Criterion	Result		
1	5 mins	Х	А	PASS		
1	5 mins	Y	А	PASS		
1	5 mins	Z	А	PASS		

Note:

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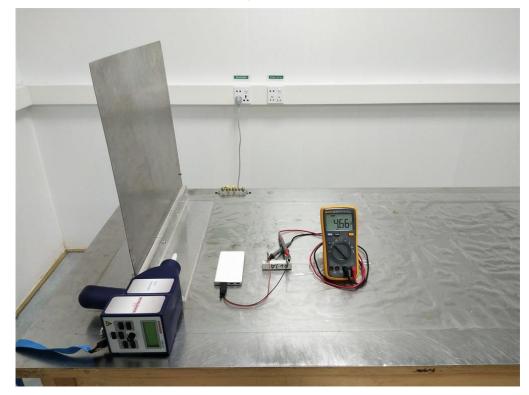
9. PHOTOGRAPH

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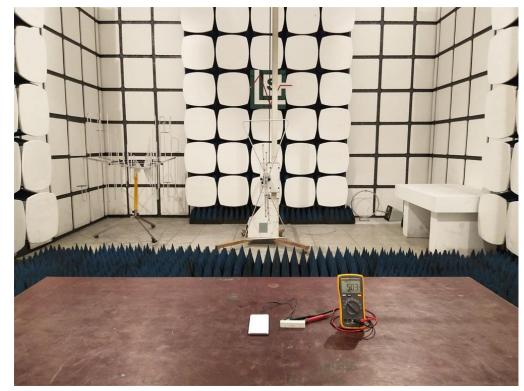
9.1.Photo of Radiated Measurement



9.2.Photo of Electrostatic Discharge Test



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9.3.Photo of Radio-frequency, Continuous radiated disturbance

9.4.Photo of Magnetic Field Immunity Test

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10. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

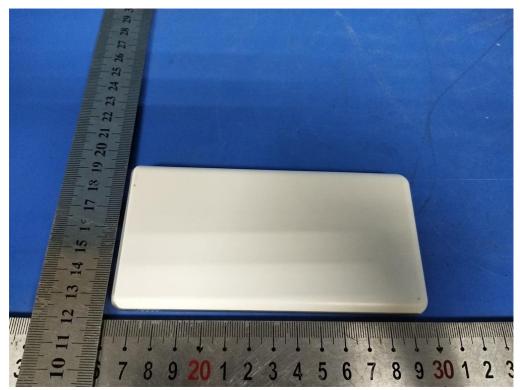


Fig. 1



Fig. 2

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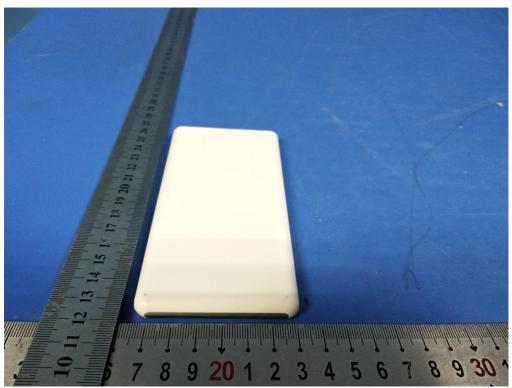
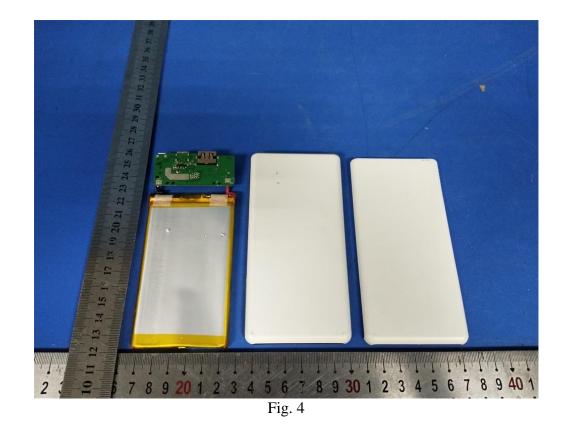


Fig. 3



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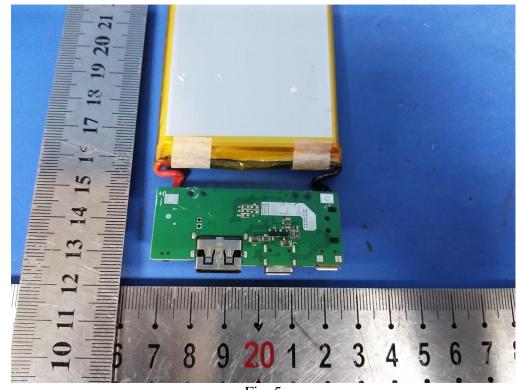
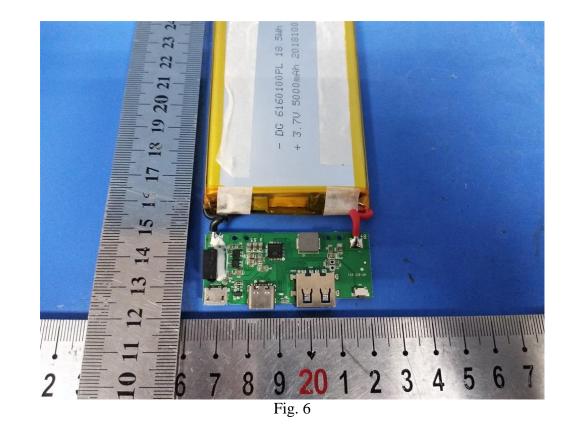


Fig. 5



-----THE END OF TEST REPORT------

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