Report No.: LCS171012043AE

EMC TEST REPORT For

POWER BANK

Model No.: UP-808

Prepared for	:
Address	:

Prepared by	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	: 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an
	Avenue, Bao'an District, Shenzhen, Guangdong, China
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Web	www.LCS-cert.com
Mail	webmaster@LCS-cert.com

Date of receipt of test sample	:	October 12, 2017
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	October 12, 2017 ~ October 23, 2017
Date of Report	:	October 23, 2017



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	EMC TEST REPORT EN 55032: 2015			
Electromagnetic compatibility of multimedia equipment - Emission Requirements				
EN 55024: 2010				
Information technology equipment-Immunity characteristics-Limits and methods of measurement of measurement				
Report Reference No				
Date of Issue				
	Shenzhen LCS Compliance Testin	g Laboratory Ltd.		
u	1/F., Xingyuan Industrial Park, Tong Bao'an District, Shenzhen, Guangdo	da Road, Bao'an Avenue,		
Testing Location/ Procedure:	Full application of Harmonised stand Partial application of Harmonised standard testing method	lards 📕		
Applicant's Name:				
Address:				
Test Specification:				
Standard	EN 55032: 2015			
	EN 55024: 2010			
Test Report Form No:	LCSEMC-1.0			
TRF Originator	Shenzhen LCS Compliance Testing	Laboratory Ltd.		
Master TRF	Dated 2011-03			
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Test Item Description:				
Trade Mark:				
Model/ Type Reference	UP-808			
	Input:5V=2A			
Ratings	Input:5V=2A Output:USB1:5V=2A; USB2:5V=	2A		
Result	Positive			
Compiled by:	Supervised by:	Annreved by:		
Hana Zens	Daley in	Tourse Lag		
Hana Zeng/File administrators	Davey Xu/ Technique principal	Gavin Liang/Manager		
	,			
		<i>z</i>		
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ino report shan not be reproduced except	in jun, miniou me minier approval of brienzhen EC	S compliance result Laboratory Liu.		

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EMC -- TEST REPORT

Test Report No. : LCS171012043AE

October 23, 2017 Date of issue

Report No.: LCS171012043AE

Type / Model	: UP-808
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.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
000	October 23, 2017	Initial Issue	Gavin Liang

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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)						
Standard		Limits	Results			
Conducted disturbance EN 55032: 2015		Class B	N/A			
EN 55032: 2015		Class B	N/A			
EN 55032: 2015		Class B	PASS			
EN 61000-3-2: 2014		Class A	N/A			
EN 61000-3-3: 2013			N/A			
IMMUNITY(EN 55024: 2010)						
t Item Basic Standard			Results			
EN 61000-4-2: 2009	В		PASS			
EN 61000-4-3: 2006+A2: 2010		А	PASS			
EN 61000-4-4: 2012		В	N/A			
EN 61000 4 5: 2014		В	N/A			
EN 61000-4-5. 2014		В	N/A			
EN 61000-4-6: 2014		А	N/A			
requency magnetic field EN 61000-4-8: 2010		А	PASS			
		В	N/A			
EN 61000-4-11: 2004		В	N/A			
		С	N/A			
	Standard EN 55032: 2015 EN 55032: 2015 EN 55032: 2015 EN 61000-3-2: 2014 EN 61000-3-2: 2014 EN 61000-3-3: 2013 IMMUNITY(EN 55024: 2010) Basic Standard EN 61000-4-2: 2009 EN 61000-4-2: 2010 EN 61000-4-3: 2006+A2: 2010 EN 61000-4-4: 2012 EN 61000-4-5: 2014 EN 61000-4-6: 2014 EN 61000-4-8: 2010	Standard EN 55032: 2015 EN 55032: 2015 EN 55032: 2015 EN 55032: 2015 EN 61000-3-2: 2014 EN 61000-3-2: 2014 EN 61000-3-3: 2013 IMMUNITY(EN 55024: 2010) Basic Standard Per EN 61000-4-2: 2009 EN 61000-4-2: 2009 EN 61000-4-3: 2006+A2: 2010 EN 61000-4-4: 2012 EN 61000-4-5: 2014 EN 61000-4-6: 2014 EN 61000-4-8: 2010	Standard Limits EN 55032: 2015 Class B EN 61000-3-2: 2014 Class A EN 61000-3-2: 2014 Class A EN 61000-3-2: 2013 IMMUNITY(EN 55024: 2010) Performance Criteria EN 61000-4-2: 2009 B EN 61000-4-2: 2009 B EN 61000-4-3: 2006+A2: 2010 A EN 61000-4-4: 2012 B EN 61000-4-5: 2014 B EN 61000-4-6: 2014 A EN 61000-4-8: 2010 A			

Test mode:				
Mode 1	Charge	Pre-scan		
Mode 2	Discharge	Record		
Mode 3	Charging And Discharging(Full Load)	Pre-scan		

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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 deriver 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

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 deriver 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
Model Number	: UP-808
Power Supply	: Input:5V=2A Output:USB1:5V=2A; USB2:5V=2A

EUT Clock Frequency $: \leq 108$ MHz

2.2.Description of Test Facility

EMC Lab.

CNAS Registration Number. is L4595.
FCC Registration Number. is CN5024.
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 Item	Frequency Range	Expanded uncertainty (Ulab)	Expanded uncertainty (Ucispr)
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.2 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	N/A

2.4. Measurement Uncertainty

(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%.

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3. MEASURING DEVICES 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	2017-06-17
2	EMI Test Receiver	ROHDE & SCHWARZ	ESR 7	101181	2017-06-17
3	Log per Antenna	SCHWARZBECK	VULB9163	9163-470	2017-04-17
4	EMI Test Software	AUDIX	E3	N/A	2017-06-17
5	Positioning Controller	MF	MF-7082	/	2017-06-17

3.2.Electrostatic Discharge

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ESD Simulator	SCHLODER	SESD 230	604035	2017-06-17

3.3.RF Field Strength Susceptibility

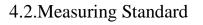
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	RF POWER AMPLIFIER	OPHIR	5225R	1052	2017-03-22
2	RF POWER AMPLIFIER	OPHIR	5273F	1019	2017-03-24
3	Stacked Broadband Log Periodic Antenna	SCHWARZBECK	STLP 9128	9128ES-145	2017-04-28
4	Stacked Mikrowellen LogPer Antenna	SCHWARZBECK	STLP 9149	9149-482	2017-04-28
5	Signal Generator	Agilent	E4438C	MY42081396	2016-11-18
6	Electric field probe	Narda S.TS./PMM	EP601	611WX70332	2017-02-05
7	Power Meter	Agilent	E4419B	MY45104493	2017-06-17
8	Power Sensor	Agilent	E9301H	MY41495234	2017-06-17
9	Power Sensor	Agilent	E4412A	MY41500229	2017-06-17

3.4. Power Frequency Magnetic Field Susceptibility

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power frequency mag-field generator System	EVERFINE	EMS61000-8K	906003	2017-06-17

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4. RADIATED EMISSION MEASUREMENT



EN 55032: 2015

4.3.Radiated Emission Limits

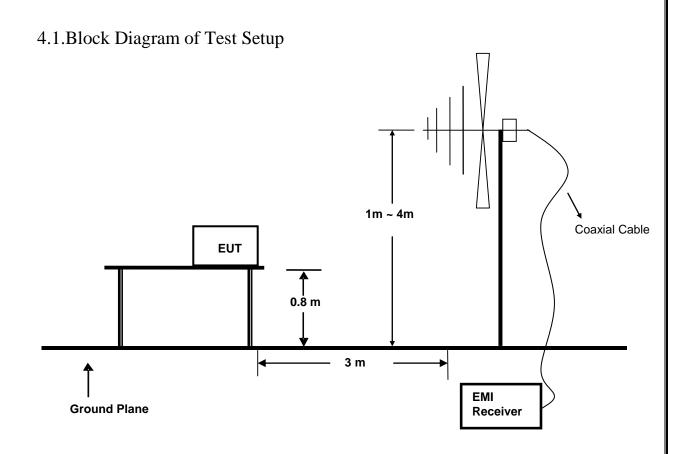
EN 55032 Limits:

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.



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 2) 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.

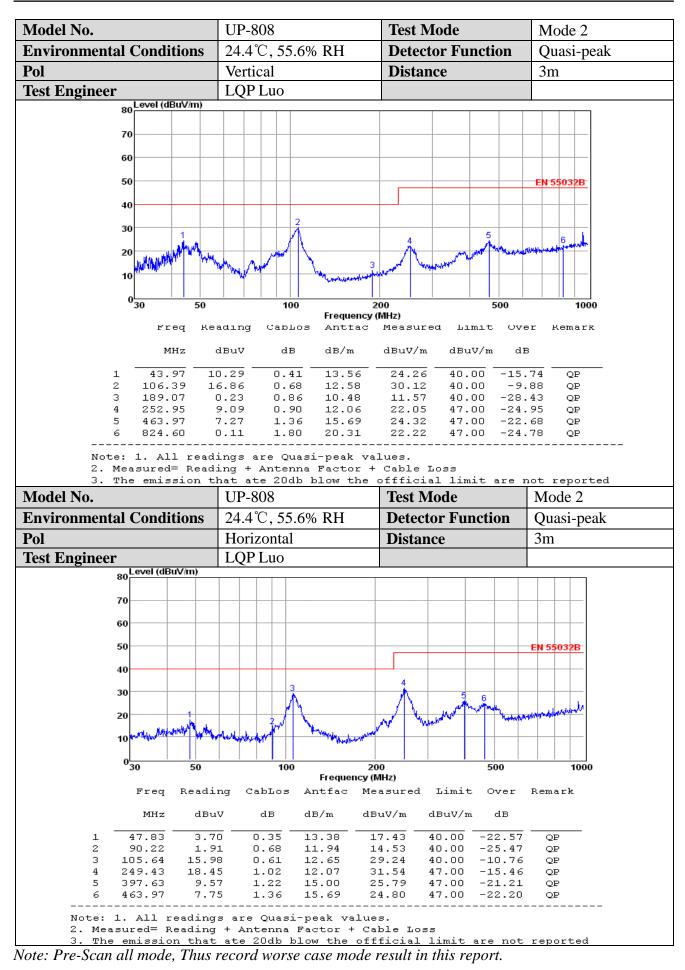
The frequency range from 30MHz to 1000MHz is investigated.

4.7.Test Results

PASS.

The test result please refer to the next page.

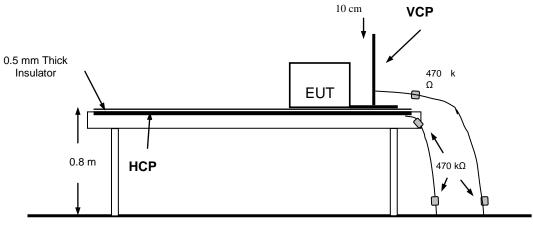
Report No.: LCS171012043AE



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5. ELECTROSTATIC DISCHARGE IMMUNITY TEST

5.1.Block Diagram of Test Setup



Ground

5.2.Test Standard

EN 55024: 2010, (EN 61000-4-2: 2009, Severity Level: 3 / Air Discharge: \pm 8KV, Level: 2 / Contact Discharge: \pm 4KV)

5.3. Severity Levels and Performance Criterion

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

5.3.1.Severity level

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

PASS.

Please refer to the following pages

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G LABORATORY LTD.	Report No.: 1

Electrostatic Discharge Test Results						
Standard	adard □ IEC 61000-4-2 ☑ EN 61000-4-2					
Applicant						
EUT	POWER B	ANK		Temperatu	ire 24.4℃	
M/N	UP-808			Humidity	55.1%	
Criterion	В			Pressure	1021mbar	
Test Mode	Mode 2			Test Engin	eer LQP Luo	
	•	Air Di	scharge		• •	
	Test	Levels	-	Results		
Test Points	$\pm 2kV$ \pm	4kV ± 8kV	Passed	Fail	Performance Criterion	
Front					$\Box \mathbf{A} \boxtimes \mathbf{B}$	
Back		\boxtimes				
Left		\boxtimes	\square		$\Box A \boxtimes B$	
Right		\boxtimes	\square		$\Box A \boxtimes B$	
Тор		\boxtimes			$\Box A \boxtimes B$	
Bottom		\boxtimes			$\Box A \boxtimes B$	
		Contact	Discharge			
	Test Levels			Results		
Test Points	$\pm 2 \text{ kV}$	±4 kV	Passed	Fail	Performance Criterion	
Front	\square	\square	\square		$\Box A \boxtimes B$	
Back	\square		\square		$\Box A \square B$	
Left			\square		$\Box \mathbf{A} \boxtimes \mathbf{B}$	
Right	\square	\square	\square		$\Box A \square B$	
Тор	\square	\square	\square		$\Box A \square B$	
Bottom	\square	\square	\square		$\Box A \boxtimes B$	
		Discharge To H		Coupling Pla	ane	
	Test Lev	vels	Results			
Side of EUT	± 2 kV	± 4 kV	Passed	Fail	Performance Criterion	
Front	\square	\square	\square		$\Box A \boxtimes B$	
Back	\square				$\Box A \boxtimes B$	
Left					$\square A \square B$	
Right	\square				$\Box \mathbf{A} \boxtimes \mathbf{B}$	
	Ι	Discharge To V	ertical Co	upling Plane	9	
	Test L	evels		Results		
Side of EUT	± 2 kV	± 4 kV	Passed	Fail	Performance Criterion	
Front	\square	\square	\square			
Back	\square	\square	\square		$\Box A \boxtimes B$	
Left	\square		\square		$\Box A \boxtimes B$	
Right	\square	\square	\square		$\Box A \boxtimes B$	

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6. RF FIELD STRENGTH SUSCEPTIBILITY TEST

3 meter 9x6x6 EUT & Support Units 1.5 meter 0.8m Signal Power Amp EUT Monitoring by Generator using a camera PC Controller to control S.G. & PA as well as forward **Control Room** power

6.1.Block Diagram of Test

6.2.Test Standard

EN 55024: 2010

(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	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
5. Dwell Time	3 Sec.

6.7.Test Results

PASS.

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Report No.: LCS171012043AE

RF Field Strength Susceptibility Test Results

Standard	□ IEC 61000-4-3 ☑ EN 61000-4-3		
Applicant			
EUT	POWER BANK	Temperature	24.4°C
M/N	UP-808	Humidity	55.6%
Field Strength	3 V/m	Criterion	А
Test Mode	Mode 2	Test Engineer	LQP Luo
Frequency Range	80 MHz to 6GHz		
Modulation	$\square None \qquad \square Pulse \qquad \blacksquare AM$	1KHz 80%	
Steps	1%		

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

Test Equipment:

- 1. Signal Generator: 2031 (MARCONI)
- 2. Power Amplifier: 500A100 & 100W/1000M1 (A&R)
- 3. Power Antenna: 3108 (EMCO) & AT1080 (A&R)

4. Field Monitor: FM2000 (A&R)

Note:

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7. MAGNETIC FIELD SUSCEPTIBILITY TEST

7.1.Block Diagram of Test Setup

EUT Signal Generator 0 0 0 Ground

7.2.Test Standard

EN 55024: 2010

(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
X	Special

7.3.2.Performance Criterion: A

7.4.EUT Configuration on Test

The configuration of the EUT is same as Section 2.1.



Induction Coil

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.

Please refer to the following page.

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Magnetic Field Immunity Test Result					
Standard	□ IEC 61000-4-8				
Applicant					
EUT	POWER BANK		Temperature	24.1℃	
M/N	UP-808		Humidity	55.6%	
Test Mode	Mode 2		Criterion	А	
Test Engineer	LQP Luo				
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:

Report No.: LCS171012043AE

8. PHOTOGRAPH

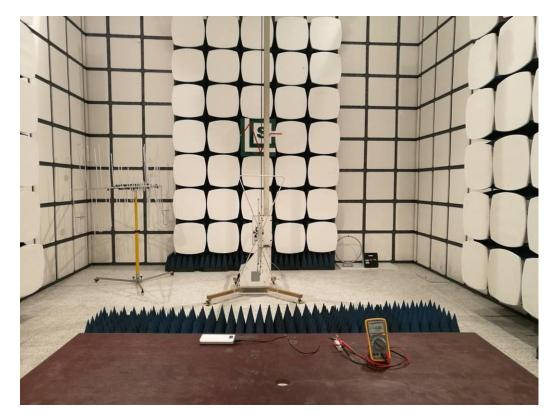
8.1.Photo of Radiated Measurement



8.2. Photo of Electrostatic Discharge Test



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8.3.Photo of Radio-frequency, Continuous radiated disturbance

8.4.Photo of Magnetic Field Immunity Test



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9. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

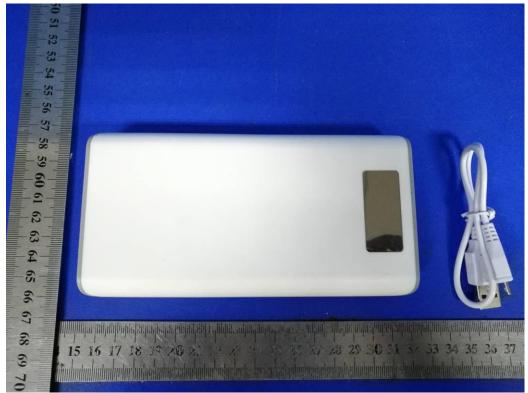


Fig 1

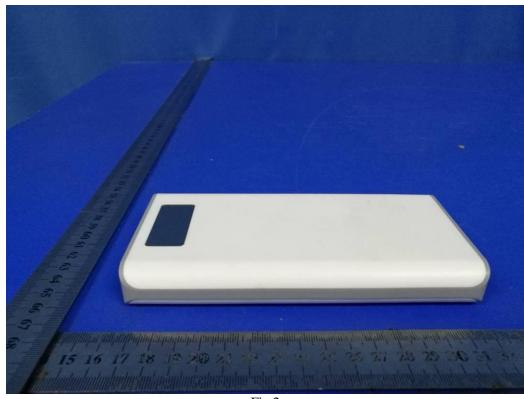


Fig 2

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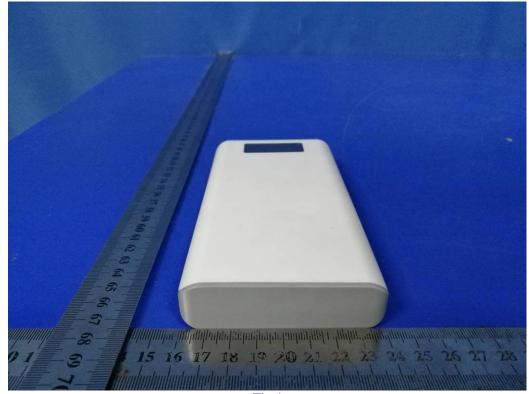


Fig 4

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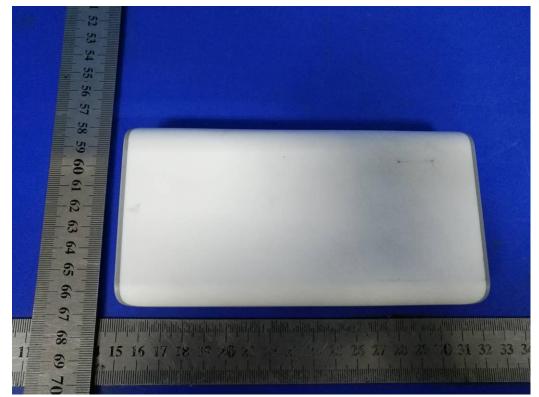




Fig	6
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Fig 8

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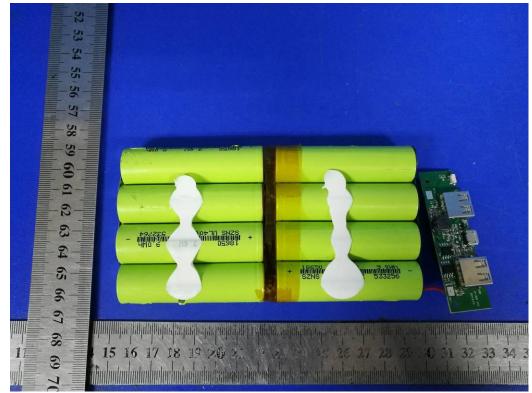




Fig 10

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Fig 11

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