EMC TEST REPORT

For

Shenzhen Zhangqing Electronic Ltd

poe splitter

Model No.: GAT-12V25W

Additional Model No.: Please Refer To Page 10

Prepared for Address	:	Shenzhen Zhangqing Electronic Ltd Number 622 HuaYuan Commercial Center Xixiang Road Xixiang Street Bao'an District, Shenzhen
Prepared by Address Tel Fax Web Mail	•••••••••••••••••••••••••••••••••••••••	Shenzhen LCS Compliance Testing Laboratory Ltd. 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China (+86)755-82591330 (+86)755-82591332 www.LCS-cert.com webmaster@LCS-cert.com
Date of receipt of test sample Number of tested samples Serial number Date of Test Date of Report	:	May 18, 2018 1 Prototype May 18, 2018 ~ May 25, 2018 May 29, 2018

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Report No.: LCS180518004AE

	EMC TEST REPORT				
	EN 55032: 2015				
Electromagnetic compatil	bility of multimedia equipment - Emission Requirements EN 55024: 2010+A1: 2015				
Information technology equipment	nt-Immunity characteristics-Limits and methods of measurement				
Report Reference No:	LCS180518004AE				
Date Of Issue:	May 29, 2018				
Testing Laboratory Name:	Shenzhen LCS Compliance Testing Laboratory Ltd.				
Address:	1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China Full application of Harmonised standards ■ Partial application of Harmonised standards □				
	Other standard testing method				
Applicant's Name:	Shenzhen Zhangqing Electronic Ltd				
Address:	Number 622 HuaYuan Commercial Center Xixiang Road Xixiang Street Bao'an District, Shenzhen				
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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Test Item Description:	poe splitter				
Trade Mark:	ZhangQing				
Model/ Type Reference:	GAT-12V25W				
Ratings:	DC 12V				
Result:	Positive				
Compiled by:	Supervised by:				
Jessita un	Darlaj. zn				
Jessica Wu/ File administrators	Davey Xu/ Technique principal Leo Leo Manager				
	이 이렇게 지하는 것이 같아. 이렇게 지하는 것이 많이 많이 많이 나라 있는 것이 없다.				

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EMC -- TEST REPORT

Test Report No. : LCS180518004AE

May 29, 2018 Date of issue

Type / Model	: GAT-12V25W
EUT	: poe splitter
Applicant	: Shenzhen Zhangqing Electronic Ltd
Address	 Number 622 HuaYuan Commercial Center Xixiang Road Xixiang Street Bao'an District, Shenzhen
Telephone	:/
Fax	: /
Manufacturer	: Shenzhen Zhangqing Electronic Ltd
Address	: Number 622 HuaYuan Commercial Center Xixiang Road
	Xixiang Street Bao'an District, Shenzhen
Telephone	: /
Fax	:/
Factory	: Shenzhen Zhangqing Electronic Ltd
Address	: Number 622 HuaYuan Commercial Center Xixiang Road
	Xixiang Street Bao'an District, Shenzhen
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	May 29, 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)		
Standard	Limits	Results
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
JNITY(EN 55024: 2010+A1: 2015)		
Basic Standard	Performance Criteria	Results
EN 61000-4-2: 2009	В	PASS
EN 61000-4-3: 2006+A2: 2010	A	PASS
EN 61000-4-4: 2012	В	N/A
EN 04000 4 5: 2044: 44: 2047	В	N/A
EN 61000-4-5: 2014+A1: 2017	В	N/A
EN 61000-4-6: 2014	А	N/A
EN 61000-4-8: 2010	А	PASS
	В	N/A
	В	
EN 61000-4-11: 2004+A1: 2017	D	N/A
	EN 55032: 2015 EN 55032: 2015 EN 55032: 2015 EN 61000-3-2: 2014 EN 61000-3-3: 2013 JNITY(EN 55024: 2010+A1: 2015) Basic Standard EN 61000-4-2: 2009 EN 61000-4-3: 2006+A2: 2010 EN 61000-4-4: 2012 EN 61000-4-5: 2014+A1: 2017 EN 61000-4-6: 2014	Standard Limits EN 55032: 2015 Class B EN 61000-3-2: 2014 Class A EN 61000-3-2: 2014 Class A EN 61000-3-3: 2013 JNITY(EN 55024: 2010+A1: 2015) Performance Criteria Basic Standard Performance Criteria EN 61000-4-2: 2009 B EN 61000-4-3: 2006+A2: 2010 A EN 61000-4-3: 2006+A2: 2010 A EN 61000-4-5: 2014+A1: 2017 B EN 61000-4-5: 2014+A1: 2017 B EN 61000-4-6: 2014 A EN 61000-4-8: 2010 A

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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

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	: poe splitter		
Trade Mark	: ZhangQing		
Model Number	: GAT-12V25W		
Power Supply	: DC 12V		
EUT Clock Frequency	: ≤ 108MHz		

2.2.Description of Test Facility

: 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 Item	tem Frequency Range Expane uncertainty		Expanded uncertainty (Ucispr)
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 EmissionLevel accuracy (above 1000MHz)		± 3.90 dB	N/A
Mains Harmonic	Voltage	$\pm 0.510\%$	N/A
Voltage Fluctuations & Flicker	Voltage	± 0.510%	N/A
EMF		± 21.59%	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%.

2.5.Model Lists

GAT-5V20W	GPOE-USBC-25W	GAT-USBC	GAT-24V25W	
WT-AF-5V10W	WT-GAF-12V12W	ZQ-GAF-24V12W	ZQ-GAT-24V15W	
ZQ-GAT-24V15W	GAT-24V24W	ZQ-AF-5V10W,	ZQ-AF-12V12W	
GAT-19.5V25W	WT-GAF-Lightning	WT-AF-Lightning		
PCB board, structure and internal of these model(s) are the same, So no additional models were tested.				

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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	2017-06-17
2	EMI Test Receiver	ROHDE & SCHWARZ	ESR 7	101181	2017-06-17
3	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2018-05-01
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	2018-03-21
2	RF POWER AMPLIFIER	OPHIR	5273F	1019	2018-03-23
3	Stacked Broadband Log Periodic Antenna	SCHWARZBECK	STLP 9128	9128ES-145	2018-04-28
4	Stacked Mikrowellen LogPer Antenna	SCHWARZBECK	STLP 9149	9149-482	2018-04-28
5	Signal Generator	Agilent	E4438C	MY42081396	2017-11-18
6	Electric field probe	Narda S.TS./PMM	EP601	611WX80208	2018-03-26
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

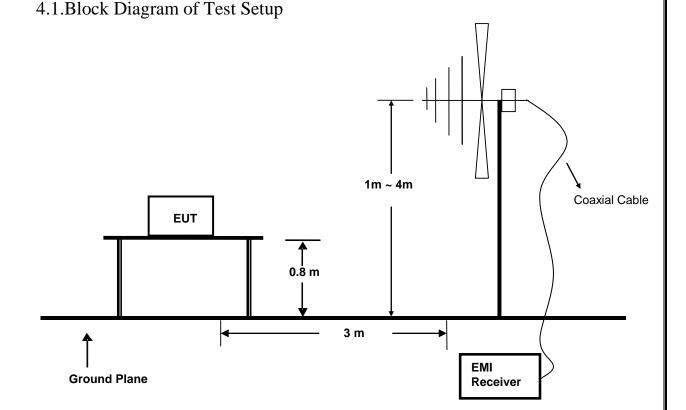
3.4. Power Frequency Magnetic Field Susceptibility

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



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.

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 (Normal) 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.

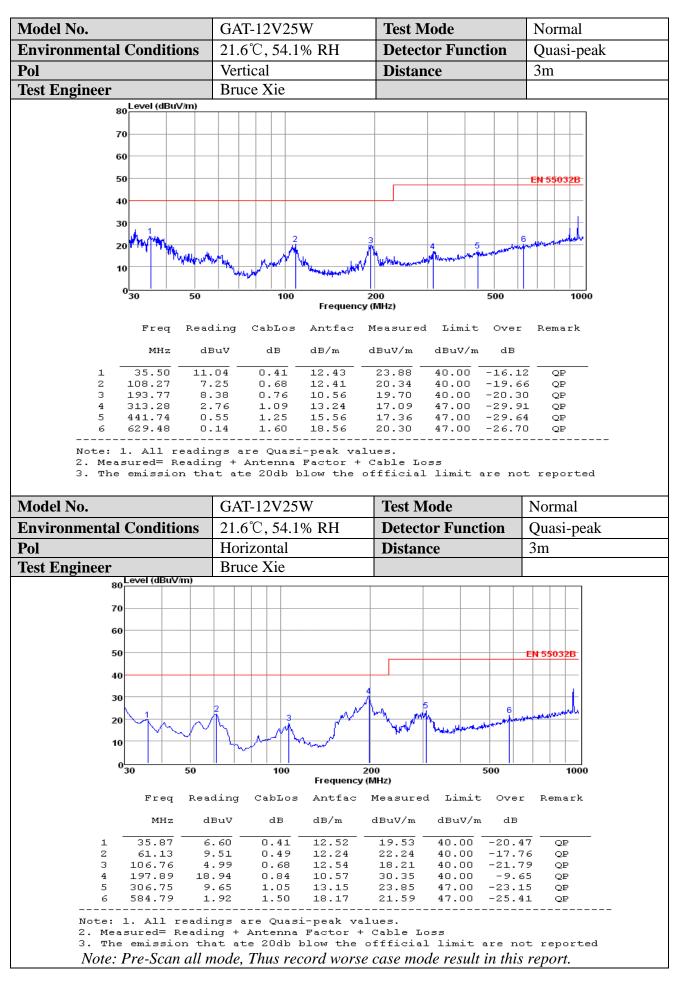
The frequency range from 30MHz to 1000MHz is investigated.

4.7.Test Results

PASS.

The test result please refer to the next page.

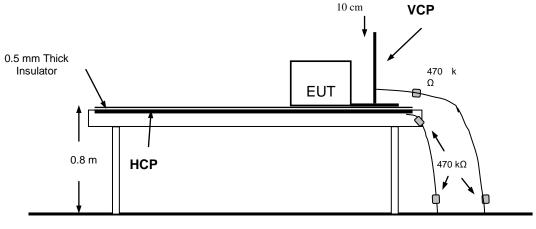
Report No.:LCS180518004AE



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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

5.3.1.Severity level

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

PASS.

Please refer to the following pages

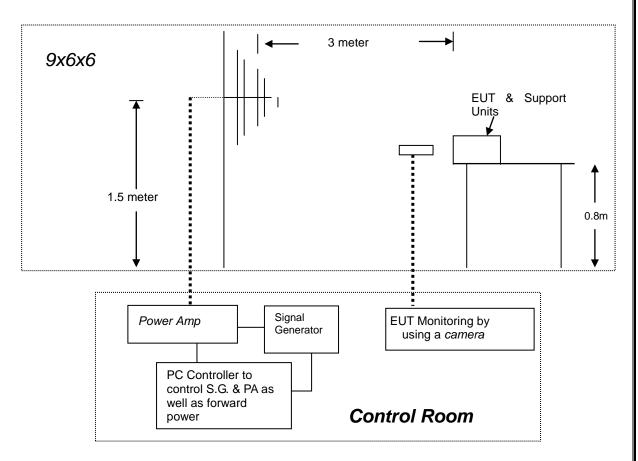
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Report No.:LCS180518004AE

Electrostatic Discharge Test Results							
Standard	tandard IEC 61000-4-2 IEN 61000-4-2						
Applicant	Shenzhen	Zhangqing E	Electronic	Ltd			
EUT	poe splitte	r		Temperatu	re	23.6°C	
M/N	GAT-12V2	25W		Humidity		53.1%	
Criterion	В			Pressure		1021mbar	
Test Mode	Normal			Test Engine	eer	Bruce Xie	
		Α	ir Discha	rge			
		Test Levels		I	Results		
Test Points	± 2kV	±4kV	± 8kV	Passed	Fail	Performance Criterion	
Front	\square	\boxtimes	\boxtimes				
Back	\boxtimes	\square	\boxtimes			$\Box \mathbf{A} \boxtimes \mathbf{B}$	
Left	\square	\boxtimes	\boxtimes			$\Box A \boxtimes B$	
Right	\boxtimes	\square				$\Box \mathbf{A} \boxtimes \mathbf{B}$	
Тор	\boxtimes	\square	\boxtimes			$\square A \square B$	
Bottom 🛛 🖾				$\Box \mathbf{A} \boxtimes \mathbf{B}$			
		Con	tact Disc	harge			
	Test Levels		Re				
Test Points	± 2 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		$\Box \mathbf{A} \boxtimes \mathbf{B}$	
Right	\boxtimes	\boxtimes		\boxtimes		$\Box \mathbf{A} \boxtimes \mathbf{B}$	
Тор	\boxtimes	\boxtimes		\boxtimes		$\Box A \boxtimes B$	
Bottom	\boxtimes	\boxtimes		\boxtimes		$\Box \mathbf{A} \boxtimes \mathbf{B}$	
	Ι	Discharge To) Horizon	tal Coupling	g Plane		
	Test Le		Resu				
Side of EUT	± 2 kV	± 4 kV		Passed	Fail	Performance Criterion	
Front	\square			\boxtimes		$\Box A \boxtimes B$	
Back	\boxtimes					$\square A \square B$	
Left	\boxtimes					$\square A \square B$	
Right	\boxtimes		İ			$\square A \square B$	
) Vertical	Coupling P			
	Test l	Levels		Results			
Side of EUT	$\pm 2 \text{ kV}$	$\pm 4 \text{ kV}$		Passed	Fail	Performance Criterion	
Front	\boxtimes	\square				$\Box \mathbf{A} \boxtimes \mathbf{B}$	
Back	\boxtimes	\square				$\Box A \boxtimes B$	
Left	\boxtimes	\square				$\Box A \boxtimes B$	
Right	\boxtimes	\boxtimes	1	\square		$\square A \square B$	

6. RF FIELD STRENGTH SUSCEPTIBILITY TEST

6.1.Block Diagram of Test



6.2.Test Standard

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
X.	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

Standard	□ IEC 61000-4-3 ☑ EN 61000-4-3	3		
Applicant	Shenzhen Zhangqing Electronic Ltd			
EUT	poe splitter	Temperature	21.6°C	
M/N	GAT-12V25W	Humidity	54.1%	
Field Strength	d Strength 3 V/m		А	
Test Mode	Test Mode Normal		Bruce Xie	
Frequency Range	Frequency Range80 MHz to 6000 MHz			
Modulation	□None □ Pulse ☑AM	M 1KHz 80%		
Steps	1%			

Horizontal		Vertical	
Front	PASS	PASS	
RightPASS		PASS	
Rear	PASS	PASS	
Left	PASS	PASS	

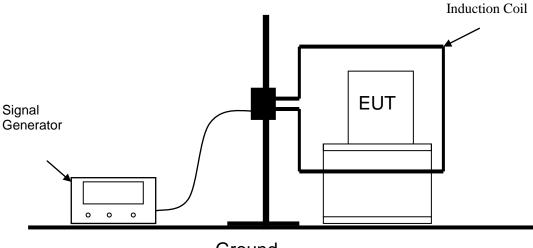
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7. MAGNETIC FIELD SUSCEPTIBILITY TEST

7.1.Block Diagram of Test Setup



Ground

7.2.Test Standard

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 3 10 30 100 Special		
1			
2			
3			
4			
5			
Х			

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.

Please refer to the following page.

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5 mins

PASS

PASS

Magnetic Field Immunity Test Result							
Standard	□ IEC 61000-4-8	☑ EN 61000-4-	-8				
Applicant	Shenzhen Zhangqi	nen Zhangqing Electronic Ltd					
EUT	poe splitter	Temper	ature	23.6°C			
M/N	GAT-12V25W	Humidi	ty	54.1%			
Test Mode	Test Mode Normal			n	А		
Test Engineer Bruce Xie							
Test Level (A/M)	Coil Orientation		Criterion		Result		
1	5 mins X				PASS		

Y

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Α

Α

1

1

Note:

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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

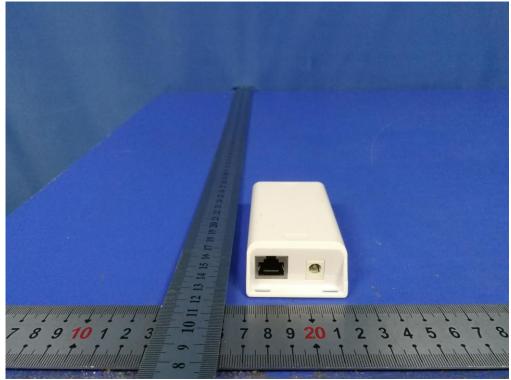


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9. EXTERNAL AND INTERNAL PHOTOS OF THE EUT



Fig. 1





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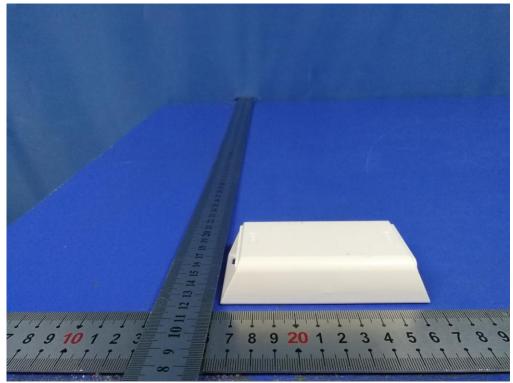


Fig. 3

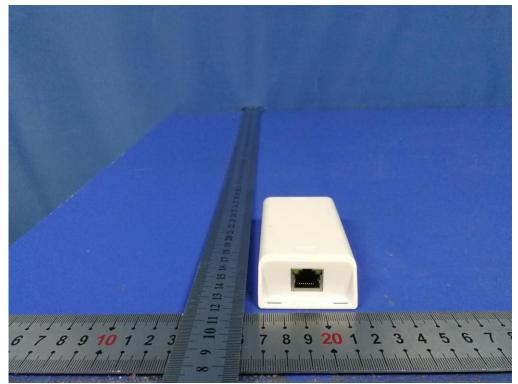


Fig. 4

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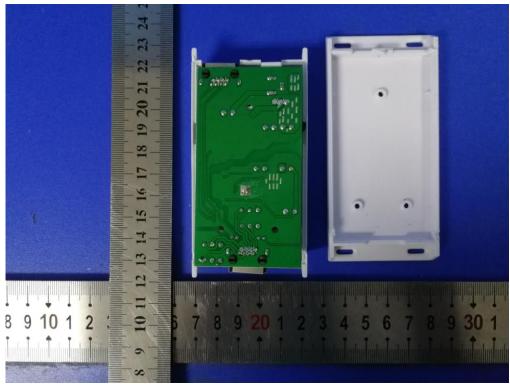


Fig. 5

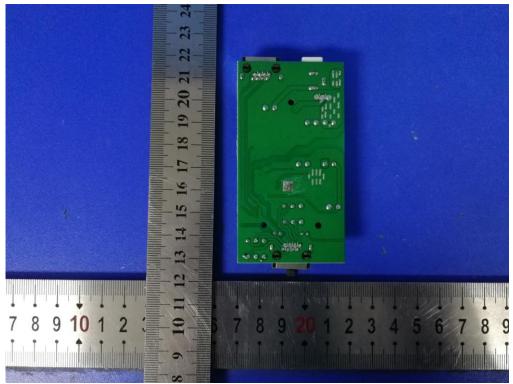


Fig. 6

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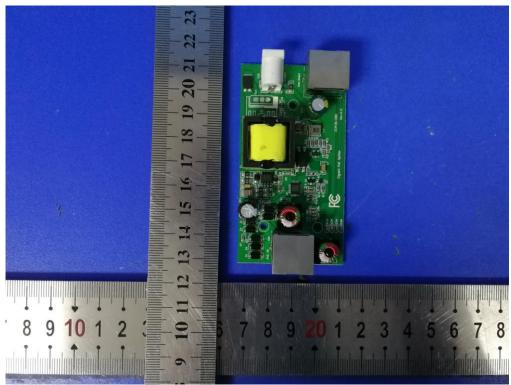


Fig. 7

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

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