EMC TEST REPORT

For

ShenZhen ZhangQing Electronic LTD

poe tester

Model No.: WS POE Tester/Detector

Additional Model No: Please Refer to Page 8

Prepared for : ShenZhen ZhangQing Electronic LTD

Address : Number 622 HuaYuan Commercial center XiXiang Road XiXiang

Street Bao' An District, ShenZhen

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

Tel : (+86)755-82591330 Fax : (+86)755-82591332 Web : www.LCS-cert.com

Mail : webmaster@LCS-cert.com

Date of receipt of test sample : April 20, 2018

Number of tested samples : 1

Serial number : Prototype

Date of Test : April 20, 2018 ~ April 23, 2018

Date of Report : April 27, 2018



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

Report Reference No. LCS180420009AE

Date Of Issue...... April 27, 2018

Testing Laboratory Name.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure: 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

Test Report Form No.....: LCSEMC-1.0

TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF: Dated 2011-03

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. is acknowledged as copyright owner and source of the material. SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test Item Description..... poe tester

Trade Mark: ZhangQing

Model/ Type Reference WS POE Tester/Detector

Ratings DC 5-57V

Result Positive

Compiled by:

Supervised by:

Lylian Li/ File administrators

Davey Xu/ Technique principal

Darley-xin

Leo Lee/ Manager

EMC -- TEST REPORT

Test Report No.: LCS180420009AE

April 27, 2018

Date of issue

Type / Model.....: : WS POE Tester/Detector EUT....: : poe tester 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

SHENZHEN I	CS	COMPLIANCE	TESTING I	ARORATORY LTD
SOCIAL CONTRACTOR		C.C.//VIFIJA/VC.F.	1 F.3 I I/V(T I	ANUNAIUNIIII

Report No.: LCS180420009AE

Revision History

Revision	Issue Date	Revisions	Revised By
000	April 27, 2018	Initial Issue	Leo Lee

TABLE OF CONTENT

Test Report Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	6
1.1.Description of Standards and Results	6
1.2.Description of Performance Criteria	
2. GENERAL INFORMATION	
2.1.Description of Device (EUT)	
2.2.Description of Test Facility	
2.3. Statement of the measurement uncertainty	8
2.4.Measurement Uncertainty	
3. MEASURING DEVICE AND TEST EQUIPMENT	
3.1.Radiated Disturbance (Electric Field)	
3.2.Electrostatic Discharge	
3.3.RF Field Strength Susceptibility	
3.4.Power Frequency Magnetic Field Susceptibility	
4. RADIATED EMISSION MEASUREMENT	
4.1.Block Diagram of Test Setup	
4.2.Measuring Standard	
4.4.EUT Configuration on Test	
4.5.Operating Condition of EO1	
4.7.Test Results	
5. ELECTROSTATIC DISCHARGE IMMUNITY TEST	
5.1.Block Diagram of Test Setup	
5.3. Severity Levels and Performance Criterion	
5.4.EUT Configuration on Test	
5.5.Operating Condition of EUT.	
5.6.Test Procedure	
5.7.Test Results	
6. RF FIELD STRENGTH SUSCEPTIBILITY TEST	
6.1.Block Diagram of Test	
6.2.Test Standard	
6.3. Severity Levels and Performance Criterion	
6.4.EUT Configuration on Test	
6.5.Operating Condition of EUT	
6.6.Test Procedure	
6.7.Test Results	
7. MAGNETIC FIELD SUSCEPTIBILITY TEST	
7.1.Block Diagram of Test Setup	
7.2.Test Standard	
7.3. Severity Levels and Performance Criterion	
7.4.EUT Configuration on Test	
7.5.Test Procedure	
7.6.Test Results	
9. PHOTOGRAPH	
9.1.Photo of Radiated Measurement	
9.2.Photo of Electrostatic Discharge Test	
9.3.Photo of Radio-frequency, Continuous radiated disturbance	
9.4.Photo of Magnetic Field Immunity Test	
10. EXTERNAL AND INTERNAL PHOTOS OF THE EUT	
IVI MILLIUM DE LEMENTE LEMENTE DE LE LE LEMENTE DE LE	

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		
	IMI	MUNITY(EN 55024: 2010)					
Description of Test Item		Basic Standard	Pe	erformance 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	2012		N/A		
Surge (Input a.c. power ports)		EN 61000-4-5:2014+A1:2017		В	N/A		
Surge (Telecommunication ports)				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		Α	PASS		
Voltage dips, >95% reduction		EN 61000-4-11:2004+A1:2017		В	N/A		
Voltage dips, 30% reduction				В	N/A		
Voltage interruptions				С	N/A		
N/A is an abbreviation for Not App	licat	ble.					

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.

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

EUT : poe tester

Trade Mark : ZhangQing

Model Number : WS POE Tester/Detector

Additional Model No : POE tester, POE Tester V7, POE Tester V8, POE Tester+,

Power over ethernet tester, DC power supply tester, load tester, poe load tester, poe monitor, universal poe tester, WS POE Tester/Detector, POE Texas tester/Detector, ZQ poe tester/detector, WS POE Tester+, POE Texas Tester/Detector+

Model Declaration : all these models are for the same products, but just with differe

nt product names.

Power Supply : DC 5-57V

EUT Clock Frequency : ≤ 108MHz

2.2.Description of Test Facility

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.

2.4. Measurement Uncertainty

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	2017-06-17
2	EMI Test Receiver	ROHDE & SCHWARZ	ESR 7	101181	2017-06-17
3	By-Log Antenna	SCHWARZBECK	VULB9163	9163-470	2017-05-02
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

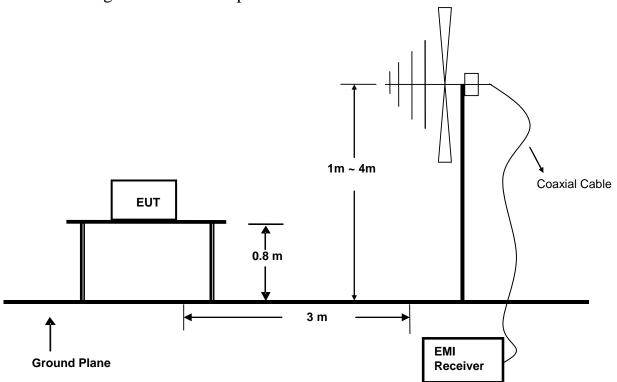
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	RF POWER AMPLIFIER	OPHIR	5225R	1052	2018-03-21
2	RF POWER AMPLIFIER	OPHIR	5273F	1019	2018-03-23
3	Stacked Broadband Log Periodic Antenna	SCHWARZBECK	STLP 9128	9128ES-145	2017-04-27
4	Stacked Mikrowellen LogPer Antenna	SCHWARZBECK	STLP 9149	9149-482	2017-04-27
5	Signal Generator	Agilent	E4438C	MY42081396	2017-11-17
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

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)	$(dB\mu V/m)$
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 ON 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.

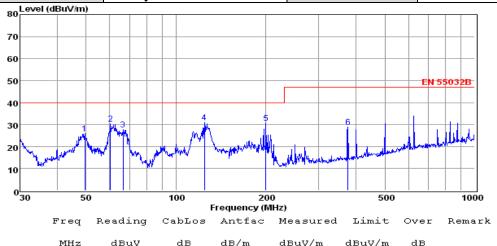
The frequency range from 30MHz to 1000MHz is investigated.

4.7.Test Results

PASS.

The test result please refer to the next page.

Model No.	WS POE Tester/Detector	Test Mode	ON
Environmental Conditions	23.5℃, 51.6% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Sunny Chen		



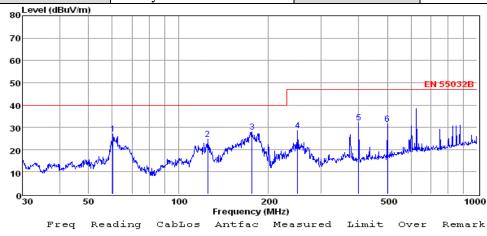
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dB	
1	49.53	12.15	0.54	13.28	25.97	40.00	-14.03	QP
2	60.28	17.12	0.49	12.58	30.19	40.00	-9.81	QP
3	66.50	16.93	0.52	10.09	27.54	40.00	-12.46	QP
4	124.57	20.42	0.71	9.77	30.90	40.00	-9.10	QP
5	199.99	19.24	0.84	10.57	30.65	40.00	-9.35	QP
6	375.94	13.21	1.10	14.56	28.87	47.00	-18.13	QP

Note: 1. All readings are Quasi-peak values.

2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that ate 20db blow the offficial limit are not reported

Model No.	WS POE Tester/Detector	Test Mode	ON
Environmental Conditions	23.5℃, 51.6% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Sunny Chen		



	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dB	
1	60.28	13.84	0.49	12.58	26.91	40.00	-13.09	QP
2	125.01	14.13	0.71	9.70	24.54	40.00	-15.46	QP
3	176.27	17.83	0.73	9.42	27.98	40.00	-12.02	QP
4	250.30	15.36	1.02	12.07	28.45	47.00	-18.55	QP
5	400.43	15.82	1.20	15.07	32.09	47.00	-14.91	QP
6	501.18	13.46	1.54	16.60	31.60	47.00	-15.40	QP

Note: 1. All readings are Quasi-peak values.

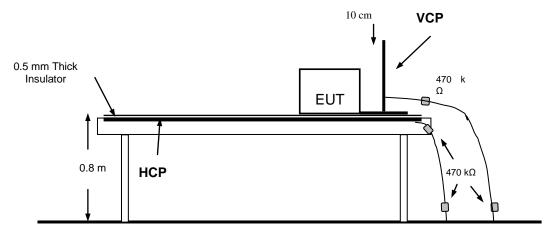
2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that ate 20db blow the offficial limit are not reported

Note: Pre-Scan all mode, Thus record worse case mode result in this report.

5. ELECTROSTATIC DISCHARGE IMMUNITY TEST

5.1.Block Diagram of Test Setup



Ground

5.2.Test Standard

EN 55024: 2010,

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

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.

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.

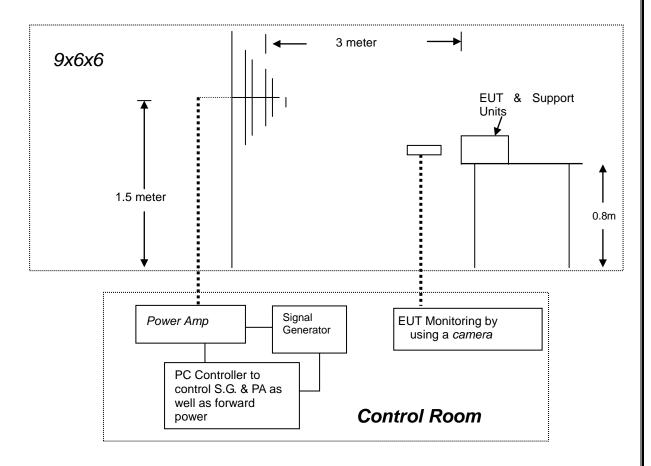
Please refer to the following pages

Electrostatic Discharge Test Results				
Standard	Standard □ IEC 61000-4-2 ☑ EN 61000-4-2			
Applicant	Applicant ShenZhen ZhangQing Electronic LTD			
EUT poe tester Temperature 23.4°C				
M/N WS POE Tester/Detector		Humidity	51.6%	
Criterion B Pressure 1021n			1021mbar	
Test Mode ON Test Engineer Sunny Chen				
A! Disabassa				

Test Mode	ON			l'est Engine	eer	Sunny Chen
Air Discharge						
	Test Levels Results					
Test Points	± 2kV	± 4kV	±8kV	Passed	Fail	Performance Criterion
Front	\boxtimes	\boxtimes	\boxtimes			\Box A \boxtimes B
Back	\boxtimes	\boxtimes	\boxtimes	\square		$\square A \boxtimes B$
Left	\boxtimes	\boxtimes		\square		\square A \boxtimes B
Right	\boxtimes	\boxtimes				\square A \boxtimes B
Тор						□A ⊠B
Bottom						\Box A \boxtimes B
			tact Disch			
	Test L	evels		Res	sults	
Test Points	± 2 kV	±4 kV	P	assed	Fail	Performance Criterion
Front	\boxtimes	\boxtimes		\boxtimes		$\square A \boxtimes B$
Back				\boxtimes		\square A \boxtimes B
Left						□A ⊠B
Right						□A ⊠B
Тор						□A ⊠B
Bottom						$\square A \boxtimes B$
		Discharge To			g Plane	
	Test Le	evels	Resul	ts		
Side of EUT	± 2 kV	± 4 kV	P	assed	Fail	Performance Criterion
Front	\boxtimes	\boxtimes		\boxtimes		$\square A \boxtimes B$
Back	\boxtimes	\boxtimes		\boxtimes		$\Box A \boxtimes B$
Left	\boxtimes	\boxtimes		\boxtimes		\square A \boxtimes B
Right	\boxtimes	\boxtimes		\boxtimes		\square A \boxtimes B
		Discharge To	Vertical (
	Test I	Levels		R	esults	
Side of EUT	± 2 kV	± 4 kV	P	assed	Fail	Performance Criterion
Front		\square				\square A \boxtimes B
Back						\square A \boxtimes B
Left						□A ⊠B
Right	\boxtimes	\boxtimes		\boxtimes		$\square A \qquad \boxtimes B$

6. RF FIELD STRENGTH SUSCEPTIBILITY TEST

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
X.	Special

6.3.2.Performance Criterion: A

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:

Remark

1.	Fielded Strength	3V/m (Severity Level 2)
2.	Radiated Signal	Unmodulated
3.	Scanning Frequency	80-6000MHz
4.	Sweep time of radiated	0.0015 Decade/s
5.	Dwell Time	3 Sec.

6.7.Test Results

PASS.

Please refer to the following page.

Condition of Test

Report No.	: LCS180420009AE

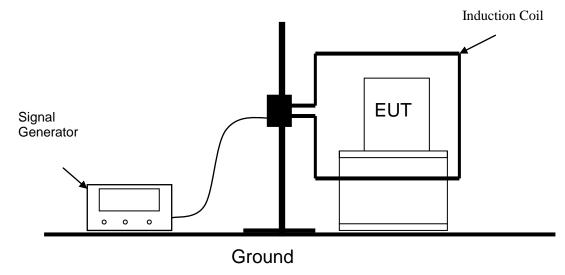
RF Field Strength Susceptibility Test Results					
Standard	☐ IEC 61000-4-3 ☐ EN 61000-4-3	□ IEC 61000-4-3 □ EN 61000-4-3			
Applicant	ShenZhen ZhangQing Electronic LTD	ShenZhen ZhangQing Electronic LTD			
EUT	poe tester	Temperature	23.5℃		
M/N	WS POE Tester/Detector	Humidity	51.6%		
Field Strength	3 V/m	Criterion	A		
Test Mode	ON	Test Engineer	Sunny Chen		
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:	

7. MAGNETIC FIELD SUSCEPTIBILITY TEST

7.1.Block Diagram of Test Setup



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.

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.

Report No.: LCS180420009AE

Magnetic Field Immunity Test Result				
Standard	☐ IEC 61000-4-8 ☑ EN 61000-4-8			
Applicant	ShenZhen ZhangQing Electronic LTD			
EUT	poe tester	Temperature	24.2℃	
M/N	WS POE Tester/Detector	Humidity	53.2%	
Test Mode	ON	Criterion	A	
Test Engineer	Sunny Chen			

Test Level (A/M)	Testing Duration	Coil Orientation	Criterion	Result
1	5 mins	X	A	PASS
1	5 mins	Y	A	PASS
1	5 mins	Z	A	PASS

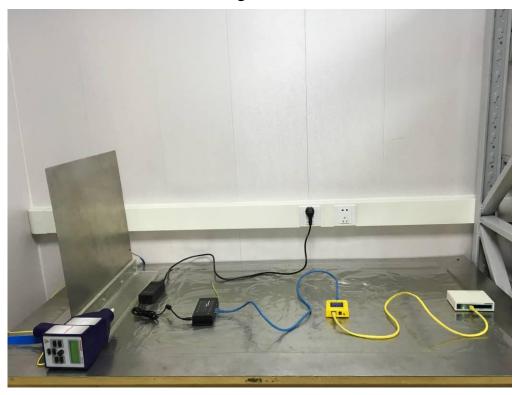
Note:

9. PHOTOGRAPH

9.1.Photo of Radiated Measurement



9.2.Photo of Electrostatic Discharge Test



9.3.Photo of Radio-frequency, Continuous radiated disturbance



9.4.Photo of Magnetic Field Immunity Test



10. EXTERNAL AND INTERNAL PHOTOS OF THE EUT



Fig. 1

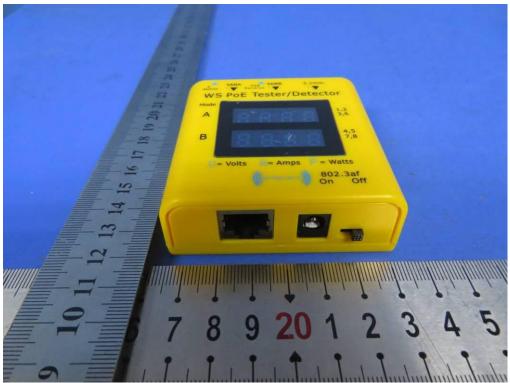


Fig. 2



Fig. 3



Fig. 4

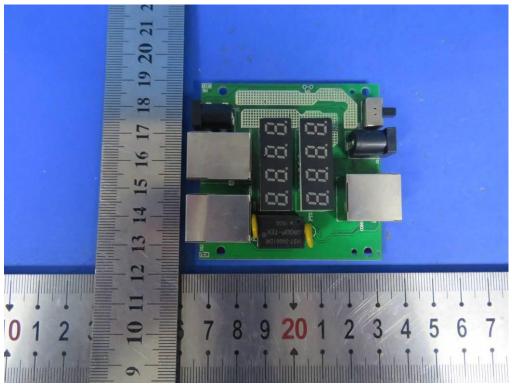


Fig. 5

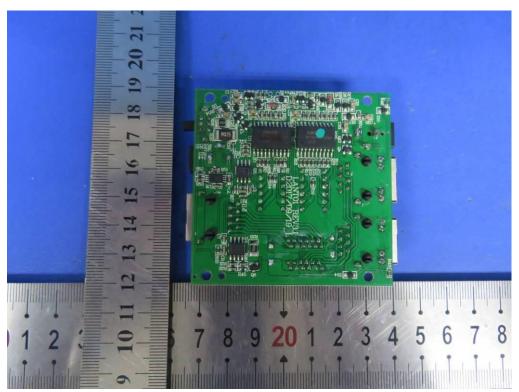


Fig. 6

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