



## SHENZHEN YARUI TESTING CO., LTD.

Address: 6 Floor Baowen Building, Baole New Village, Xixiang Yantian, Bao'An District, Shenzhen City

Tel.: +86-755-27912080 Fax.: +86-755-27916936 Website: [www.yarui-lab.com](http://www.yarui-lab.com)

# ROHS TEST REPORT

**Product name:** Power Over Ethernet series products

**Trademark:**



**Model No.:**

WS-POES-8-7,WS-POEGS-8-7,WS-POESG-8-7,WS-POE-8-ENC,  
WS-POE-4-ENC,WS-POE-12-1U,WS-POE-16-1U,WS-POE-24-1U,  
WS-GPOE-1,WS-GPOE-6,WS-GPOE-4,WS-GPOE-8,WT-GPOE-4,  
WT-GPOE-8,WT-GPOE-1-AB,WS-POE-1-WM,WS-GPOE-12-1U,  
WS-GPOE-16-1U

**Test Standards:**

IEC62321-4:2013;IEC62321-5:2013;  
IEC 62321:2013; EPA 3540C:1996; EN 14372:2004

**Applicant:**

ShenZhen ZhangQing Electronic LTD.

**Address:**

No 622 HuaYuan Commercial Center, No 347 XiXiang Road,  
XiXiang Town, Bao'An District, ShenZhen City

**Manufacturer:**

ShenZhen ZhangQing Electronic LTD.

**Address:**

No 622 HuaYuan Commercial Center, No 347 XiXiang Road,  
XiXiang Town, Bao'An District, ShenZhen City

**Tested Date:**

December 01, 2016- December 05,2016

**Issued Date:**

December 05,2016

**Report No.:**

YRT201612207R

**Tested By:**

Tommy Zhang / Engineer

**Approved By:**

Jack Yu /Manager

Test Requested:

Conclusion:

(1): As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr6+), Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs) content in the submitted sample in accordance with Regulation IEC 62321:2008

PASS

(2): As specified by client, to determine the HBCDD content in the submitted samples in accordance with Regulation EPA 3540C:1996

PASS

(3): As specified by client, to determine the DEHP、DBP、BBP content in the submitted sample in accordance with Regulation EN 14372:2004

PASS

## Test Method:

(1) With reference to IEC 62321:2008

Testing item	Pretreatment method	Measuring instrument	MDL
Lead(Pb)	IEC 62321:2013	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC 62321:2013	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321:2013	ICP-OES	2 mg/kg
Chromium(Cr VI)	IEC 62321:2008	UV-Vis	2 mg/kg
PBBs/ PBDEs	IEC 62321:2008	GC-MS	5 mg/kg

(2) With reference to EPA 3540C:1996

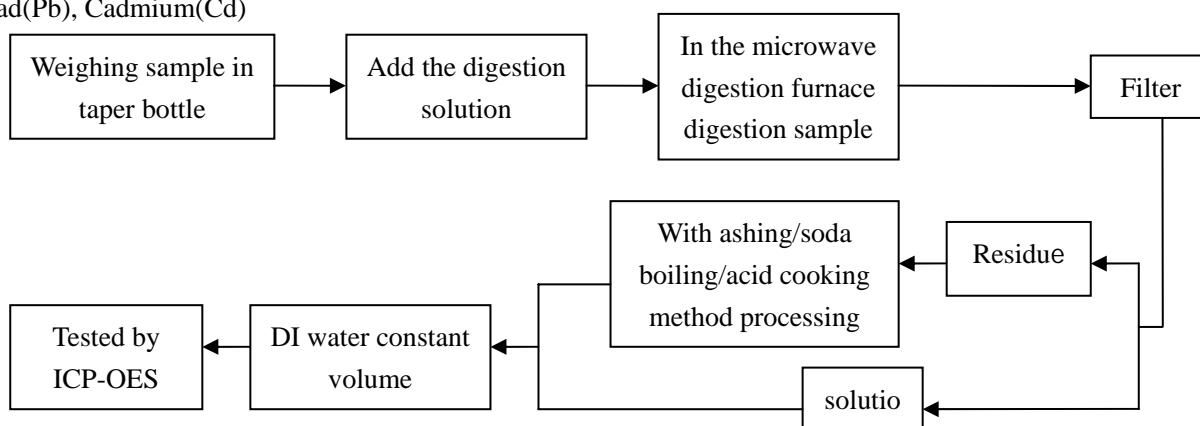
Testing item	Pretreatment method	Measuring instrument	MDL
HBCDD	EPA3540:1996	GC-MS	10 mg/kg

(3) With reference to EN 14372:2004

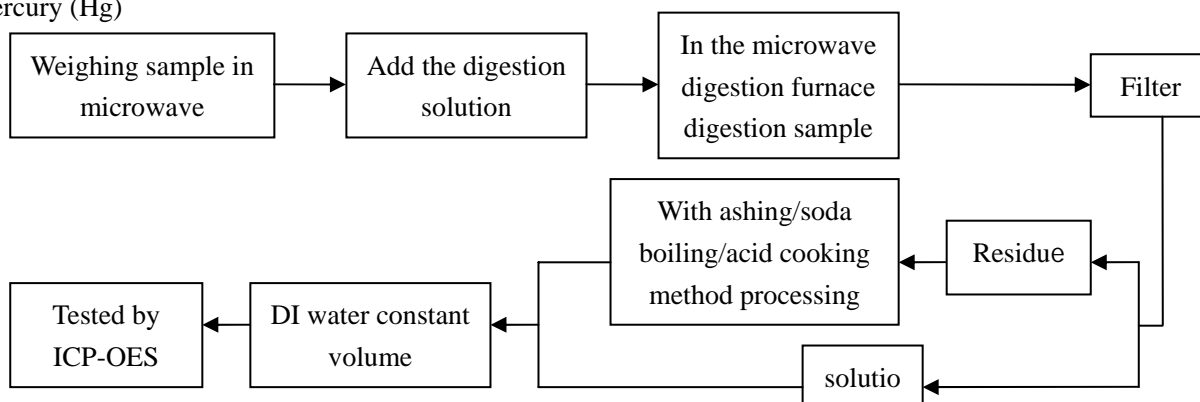
Testing item	Pretreatment method	Measuring instrument	MDL
DEHP、DBP、BBP	EN 14372:2004	GC-MS	0.003 mg/kg

## Test Flow:

1. Lead(Pb), Cadmium(Cd)

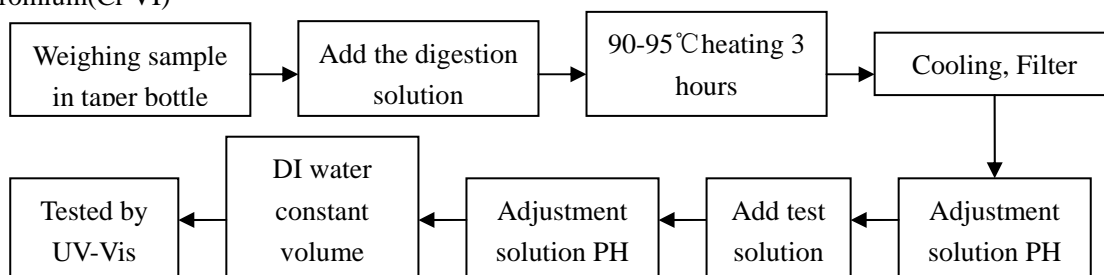


2. Mercury (Hg)

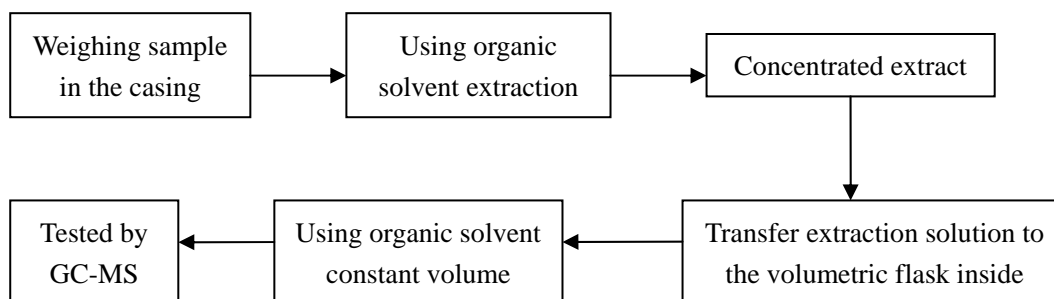


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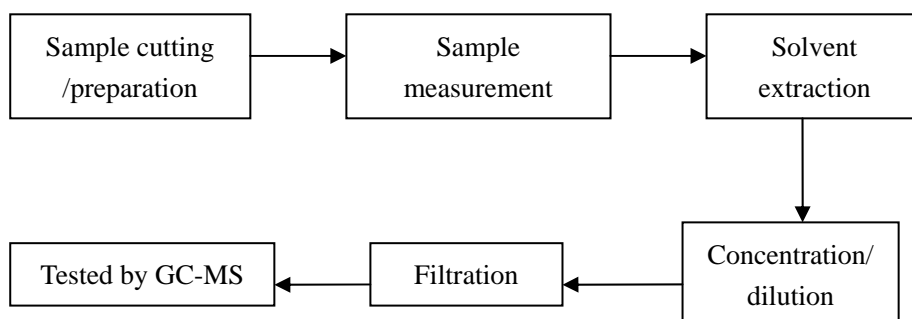
### 3. Chromium(Cr VI)



### 4. PBBs/ PBDEs



### 5. HBCDD/ DEHP/ BBP/ DBP





## Test Data Summary:

SAMPLE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
1	Metal case	Cd	P	N.D.	<100	P
		Cr	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	D	N.D.	<1000	P
		PBDEs	D	N.D.	<1000	P
		HBCDD	D	N.D.	<1000	P
		DEHP	D	N.D.	<1000	P
		DBP	D	N.D.	<1000	P
		BBP	D	N.D.	<1000	P
2	Plastic	Cd	P	N.D.	<100	P
		Cr	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	D	N.D.	<1000	P
		PBDEs	D	N.D.	<1000	P
		HBCDD	D	N.D.	<1000	P
		DEHP	D	N.D.	<1000	P
		DBP	D	N.D.	<1000	P
		BBP	D	N.D.	<1000	P
3	PCB	Cd	P	N.D.	<100	P
		Cr	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	D	N.D.	<1000	P
		PBDEs	D	N.D.	<1000	P
		HBCDD	D	N.D.	<1000	P
		DEHP	D	N.D.	<1000	P
		DBP	D	N.D.	<1000	P
		BBP	D	N.D.	<1000	P
4	Metal	Cd	P	N.D.	<100	P
		Cr	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	D	N.D.	<1000	P
		PBDEs	D	N.D.	<1000	P
		HBCDD	D	N.D.	<1000	P
		DEHP	D	N.D.	<1000	P
		DBP	D	N.D.	<1000	P
		BBP	D	N.D.	<1000	P

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SAMPLE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
5	Components	Cd	P	N.D.	<100	P
		Cr	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	D	N.D.	<1000	P
		PBDEs	D	N.D.	<1000	P
		HBCDD	D	N.D.	<1000	P
		DEHP	D	N.D.	<1000	P
		DBP	D	N.D.	<1000	P
		BBP	D	N.D.	<1000	P
6	Screw	Cd	P	N.D.	<100	P
		Cr	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	D	N.D.	<1000	P
		PBDEs	D	N.D.	<1000	P
		HBCDD	D	N.D.	<1000	P
		DEHP	D	N.D.	<1000	P
		DBP	D	N.D.	<1000	P
		BBP	D	N.D.	<1000	P
7	Power cord	Cd	P	N.D.	<100	P
		Cr	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	D	N.D.	<1000	P
		PBDEs	D	N.D.	<1000	P
		HBCDD	D	N.D.	<1000	P
		DEHP	D	N.D.	<1000	P
		DBP	D	N.D.	<1000	P
		BBP	D	N.D.	<1000	P

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SAMPLE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
8	Joint	Cd	P	N.D.	<100	P
		Cr	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
		PBBs	D	N.D.	<1000	P
		PBDEs	D	N.D.	<1000	P
		HBCDD	D	N.D.	<1000	P
		DEHP	D	N.D.	<1000	P
		DBP	D	N.D.	<1000	P
		BBP	D	N.D.	<1000	P

1mg/kg=1ppm = 0.0001%

N.D. = Not Detected (<MDL)

MDL = Method Detection Limit

/=Not Regulated

---=Not Applicable

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**Photo Documentation:**



Photo 3



Photo 4

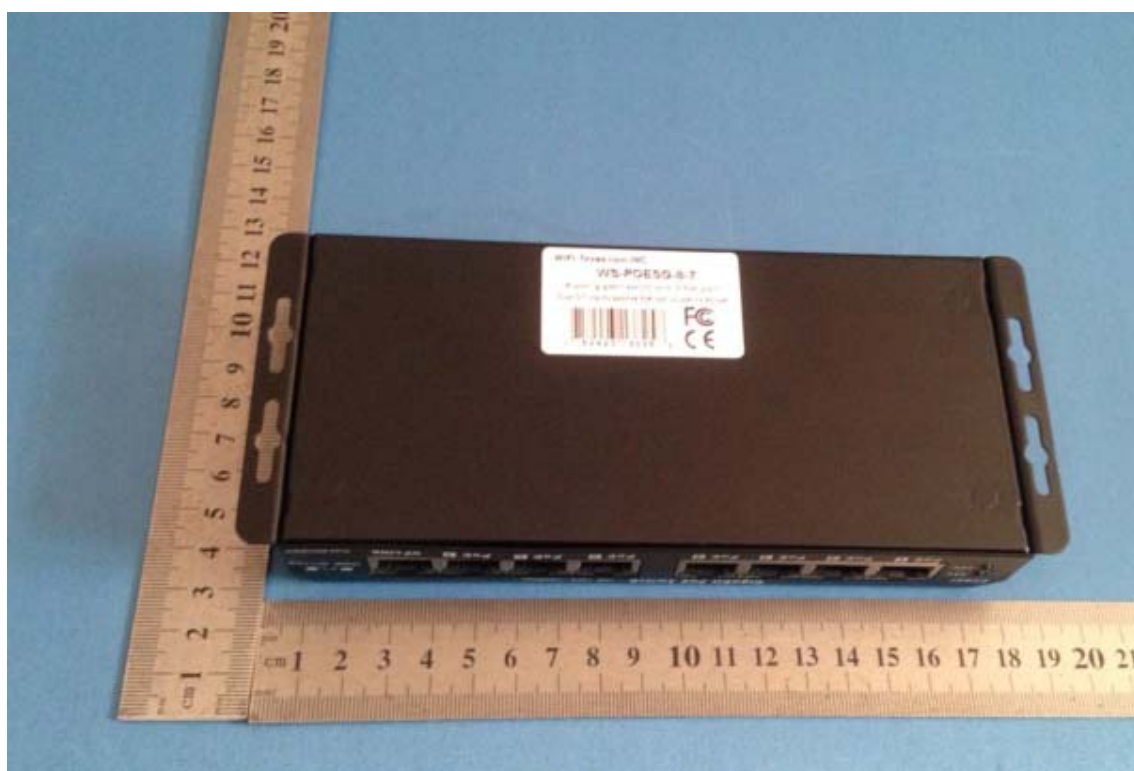




Photo 5



Photo 6

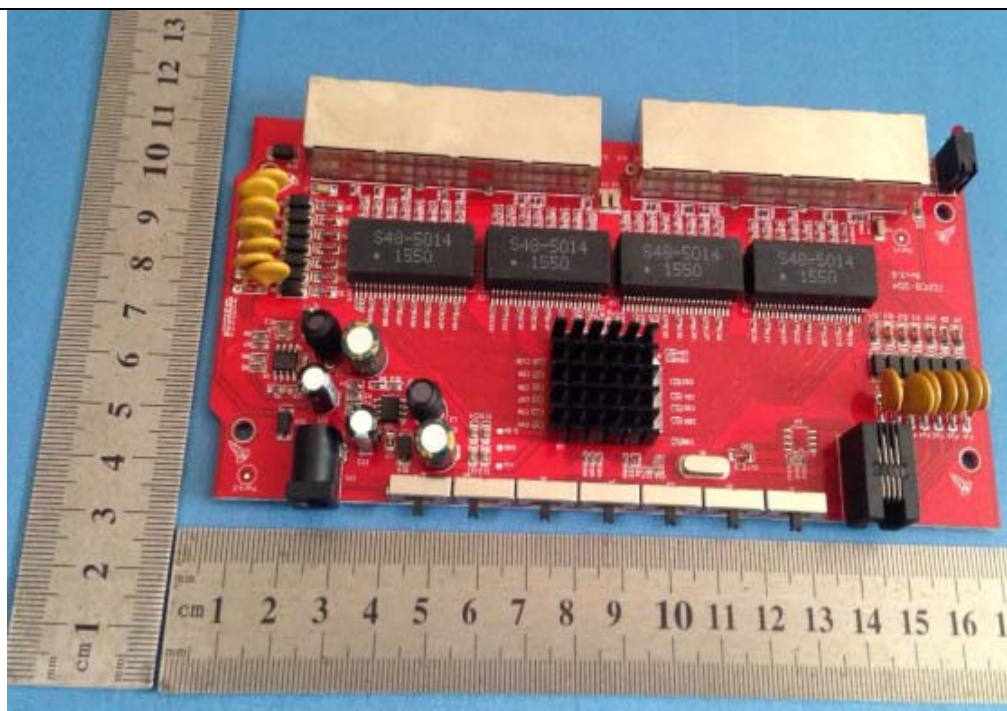
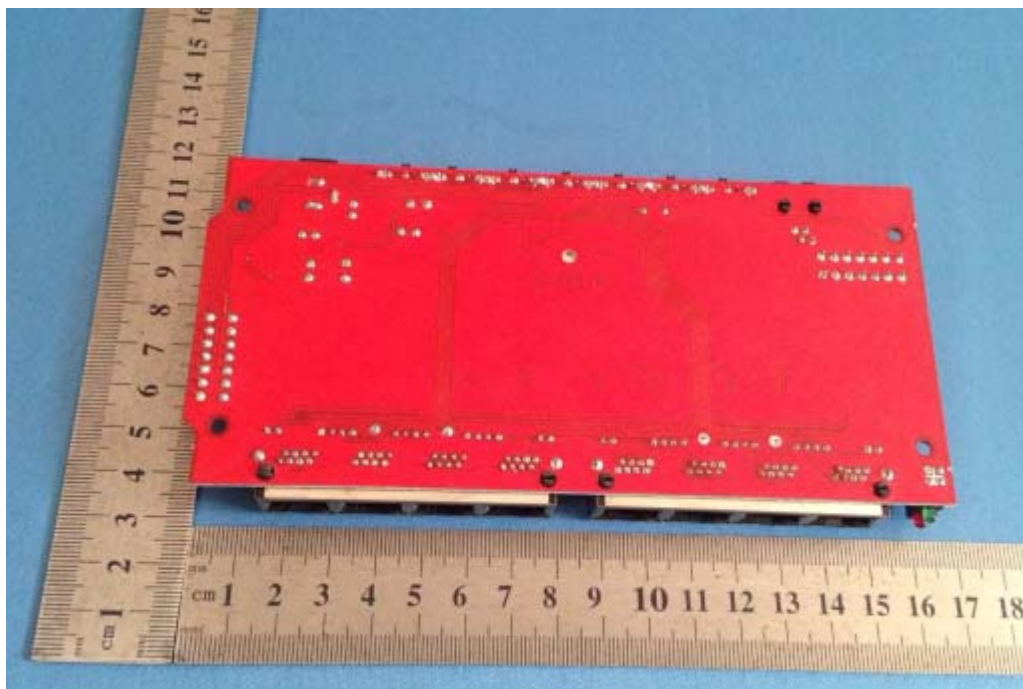


Photo 7



===== End of Test Report =====