

# TEST REPORT

NO.: A001R140610082002

Date: Jun 13, 2014

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**Applicant:** SHENZHEN FUXIANG TECHNOLOGY CO.,LTD

**客户/申请商:** 深圳市富翔科技有限公司

**Address:** NO.11 Building,Pioneer IndustryZone,Shapuwei,Songgang Town,Shenzhen

**地 址:** 深圳市宝安区松岗镇沙浦围创业工业区 11 栋

**Report on the submitted sample said to be**

委托测试的样品及申请者对样品的说明如下

**Sample name:** PCB circuit board

**样品名称:** PCB 线路板

**Model:** /

**型 号:** /

**Material:** Lead-free spray-tin

**材 料:** 无铅喷锡

**Supplier:** /

**供 应 商:** /

**Sample received date:** Jun 10, 2014

**样品接收日期:** 2014-06-10

**Testing period:** From Jun 10, 2014 to Jun 13, 2014

**样品测试周期:** 2014-06-10 至 2014-06-13

## Test Requested 测试要求:

As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium( $\text{Cr}^{6+}$ ), Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs) content in the submitted sample.

依据客户要求,测定委托样品中的铅(Pb)、镉(Cd)、汞(Hg)、六价铬( $\text{Cr}^{6+}$ )、多溴联苯(PBBs)和多溴联苯醚(PBDEs)的含量。

\*\*\*\*\*FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) 更多详细信息请查阅下页\*\*\*\*\*



Signed for and on behalf of 谨代表

Shenzhen AOV Testing Technology Co., Ltd. 深圳市安姆特检测技术有限公司

Tested by:

Leif

主 检 Li Xian Yong, Leif 李先勇

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Rosary

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Vice Technical Supervisor 技术副主管

Approved by:

Lewis

签 发 Liu Lin Wen, Lewis 刘林文

Technical Supervisor 技术主管



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## Test Method:

### 测试方法:

(1) With reference to IEC 62321:2008 Ed 1.0 Electrotechnical products - Determination of levels of six regulated substances

参照 IEC 62321:2008 Ed 1.0 电子电气产品中六种限用物质含量的测定程序

(2) With reference to IEC 62321:2013 Ed 1.0 Determination of certain substances in electrotechnical products

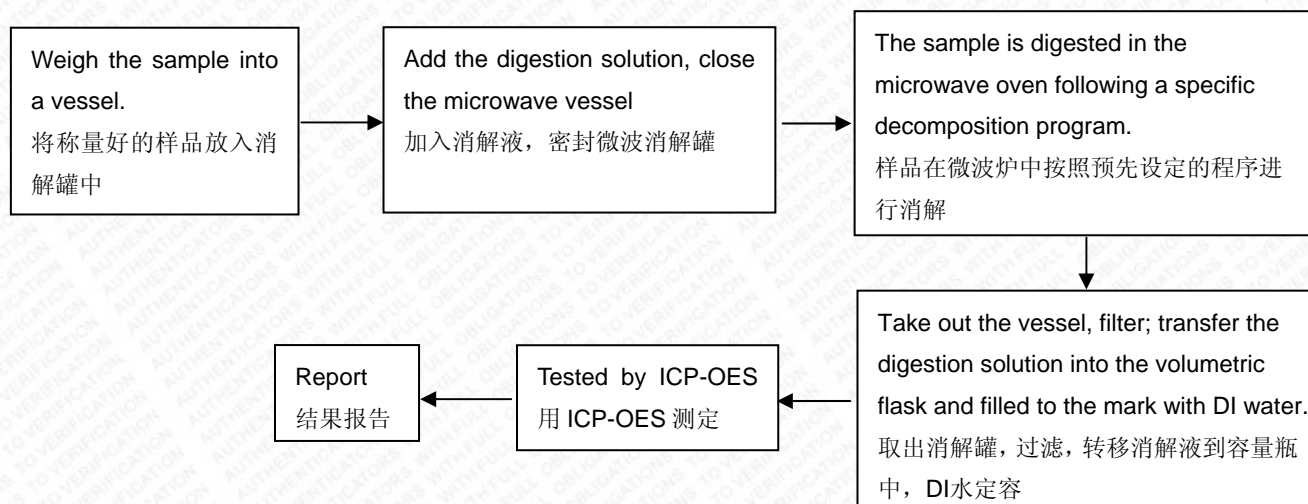
参照 IEC 62321:2013 Ed 1.0 电子电气产品中某些物质含量的测定程序

Test Item 测试项目	Pretreatment Method 前处理方法	Measuring Instrument 测试仪器	MDL
Lead 铅	IEC 62321-5:2013 Ed 1.0 Section 7.3 IEC 62321-5:2013 Ed 1.0 7.3 部分	ICP-OES	2 mg/kg
Cadmium 镉	IEC 62321-5:2013 Ed 1.0 Section 7.3 IEC 62321-5:2013 Ed 1.0 7.3 部分	ICP-OES	2 mg/kg
Mercury 汞	IEC 62321-4:2013 Ed 1.0 Section 7.2 IEC 62321-4:2013 Ed 1.0 7.2 部分	ICP-OES	2 mg/kg
Hexavalent Chromium 六价铬	IEC 62321:2008 Ed 1.0 Annex C IEC 62321:2008 Ed 1.0, 附件 C	UV-VIS	2 mg/kg
Polybrominated Biphenyls/ Polybrominated Diphenyl Ethers 多溴联苯及多溴联苯醚	IEC 62321:2008 Ed 1.0 Annex A IEC 62321:2008 Ed 1.0, 附件 A	GC-MS	5 mg/kg

## Test Flow:

### 测试流程:

1. To Determine Lead, Cadmium Content (测定铅, 镉含量):



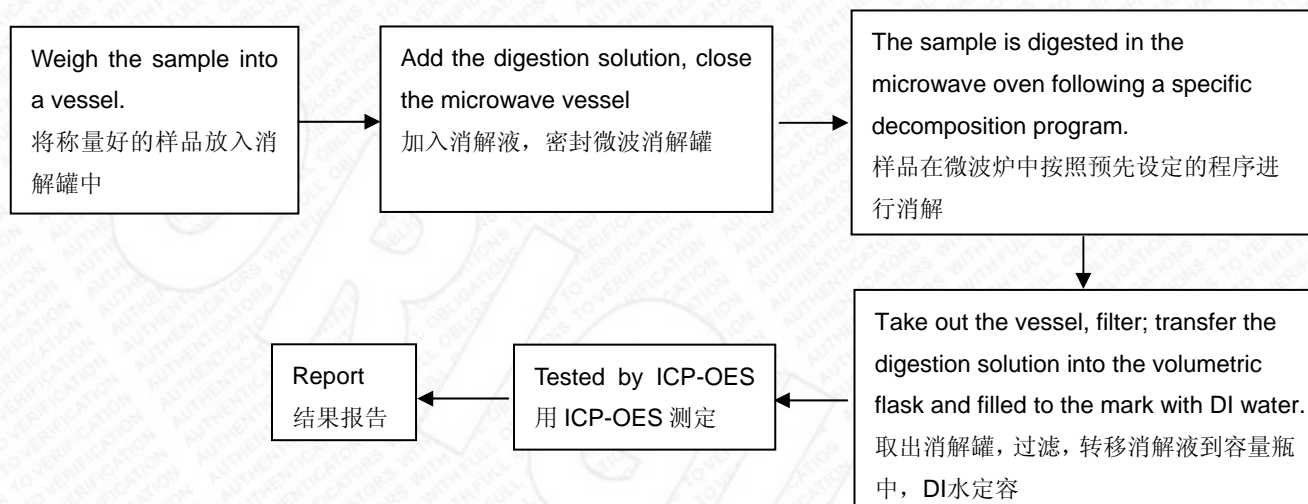
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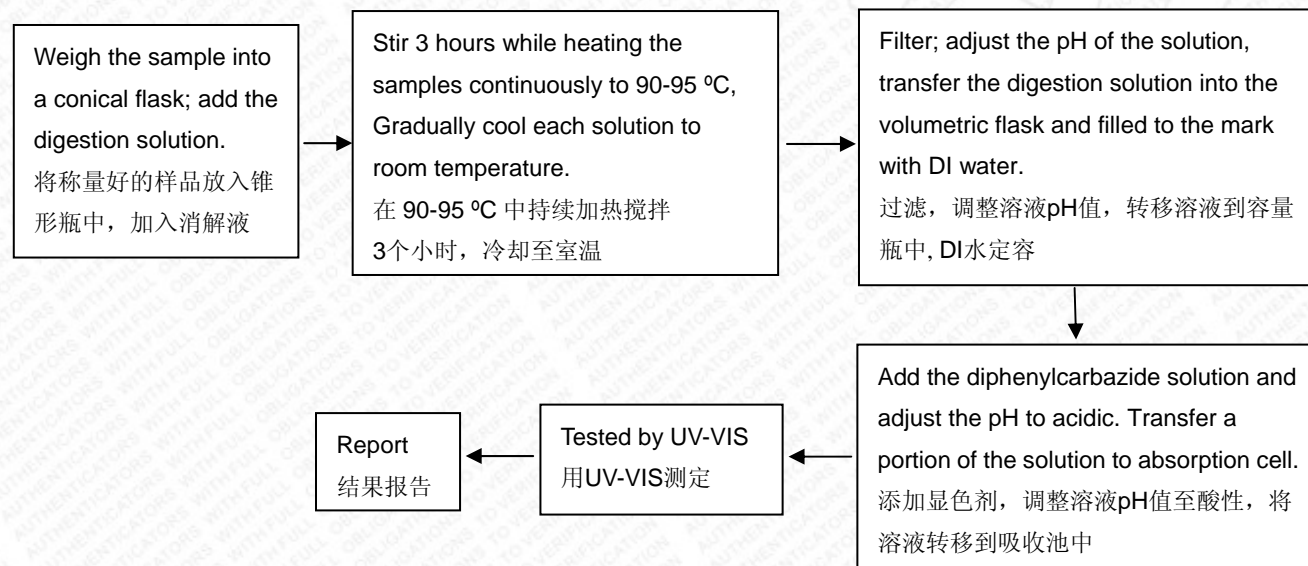
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## 2. To Determine Mercury Content (测定汞含量):



## 3. To Determine Hexavalent Chromium Content (for Electronics) (测定六价铬含量) (电子件):





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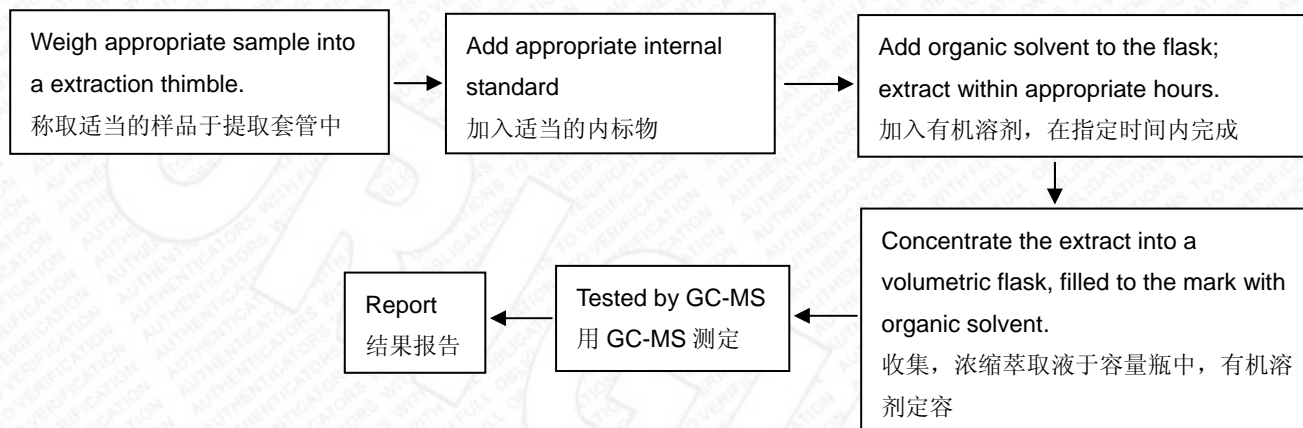
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## 4. To Determine Polybrominated Biphenyls/Polybrominated Diphenyl Ethers Content

(测定多溴联苯及多溴联苯醚的含量):



### Test Results:

#### 测试结果:

Item 项目	Unit 单位	Result (结果)
		A*
Lead 铅	mg/kg	4
Cadmium 镉	mg/kg	N.D.
Mercury 汞	mg/kg	N.D.
Hexavalent Chromium 六价铬	mg/kg	N.D.



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Item 项目	Unit 单位	Result (结果)
		A*
多溴联苯 PBBs	mg/kg	N.D.
一溴联苯 MonoBB	mg/kg	N.D.
二溴联苯 DiBB	mg/kg	N.D.
三溴联苯 TriBB	mg/kg	N.D.
四溴联苯 TetraBB	mg/kg	N.D.
五溴联苯 PentaBB	mg/kg	N.D.
六溴联苯 HexaBB	mg/kg	N.D.
七溴联苯 HeptaBB	mg/kg	N.D.
八溴联苯 OctaBB	mg/kg	N.D.
九溴联苯 NonaBB	mg/kg	N.D.
十溴联苯 DecaBB	mg/kg	N.D.
多溴联苯醚 PBDEs	mg/kg	N.D.
一溴联苯醚 MonoBDE	mg/kg	N.D.
二溴联苯醚 DiBDE	mg/kg	N.D.
三溴联苯醚 TriBDE	mg/kg	N.D.
四溴联苯醚 TetraBDE	mg/kg	N.D.
五溴联苯醚 PentaBDE	mg/kg	N.D.
六溴联苯醚 HexaBDE	mg/kg	N.D.
七溴联苯醚 HeptaBDE	mg/kg	N.D.
八溴联苯醚 OctaBDE	mg/kg	N.D.
九溴联苯醚 NonaBDE	mg/kg	N.D.
十溴联苯醚 DecaBDE	mg/kg	N.D.

## Specimen Description:

### 样品描述:

A\*: PCB circuit board mixed PCB 线路板混测

## Note:

### 备注:

- Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been dissolved completely.
- 对于测试铅、镉、汞的样品已完全溶解
- mg/kg=ppm
- N.D.=not detected(<MDL)
- N.D.= 未检出(<MDL)
- MDL=Method Detection Limit
- MDL=方法检测限



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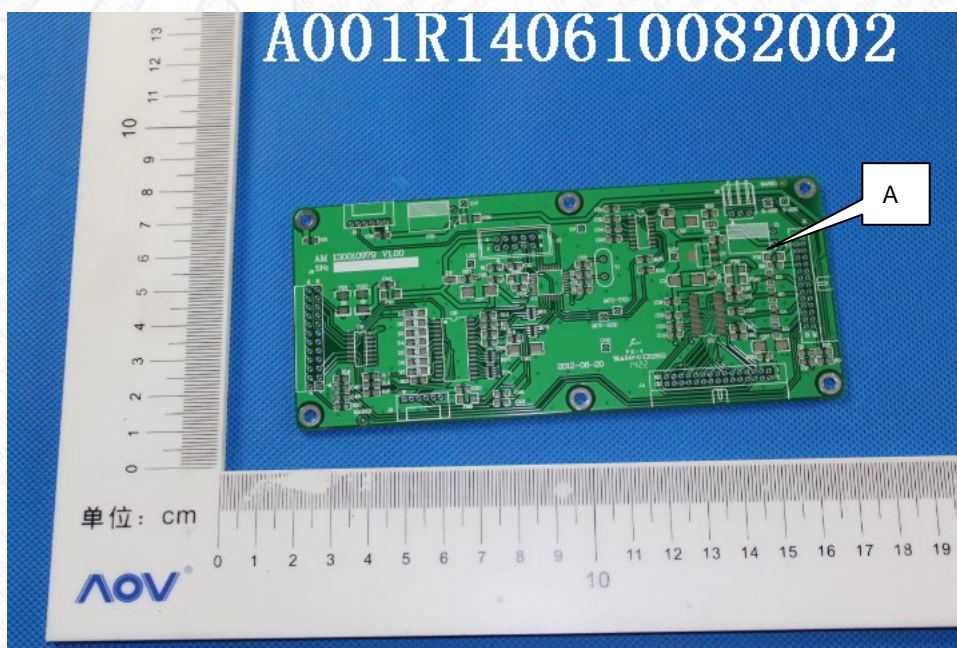
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- \*According to the applicant's request, the admixture of specimen A is tested as a whole. The testing results of specimen A may be different from that of any sole material in specimen A.
- \*根据客户的要求，对样品 A 进行混测。样品 A 的测试结果可能与单测样品 A 中任何一种材料的结果有差异。
- Photo is included
- 附照片

## Photograph of Sample

### 样品照片



PCB circuit board

PCB 线路板

\*\*\*End of Report\*\*\*

\*\*\*报告结束\*\*\*