



# 检测报告

## Test Report

报告编号 A222038801610104E  
Report No. A222038801610104E

第 1 页 共 16 页  
Page 1 of 16

报告抬头公司名称 强茂电子（无锡）有限公司  
Company Name PANJIT ELECTRONIC(WUXI)CO.,LTD  
shown on Report  
地址 江苏省无锡市新区汉江路 8 号  
Address NO. 8, HANJIANG ROAD, WUXI NEW DISTRICT, WUXI, JIANGSU, CHINA

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称 Sample Name(s) SMD Diode(LEAD FREE PLATING)  
样品型号 Part No. SMBF  
材料名称 Material HF  
样品接收日期 2022.09.01  
Sample Received Date Sep. 1, 2022  
样品检测日期 2022.09.01-2022.09.07  
Testing Period Sep. 1, 2022 to Sep. 7, 2022

### 检测要求

根据客户要求, 对所提交样品中的铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸酯(DBP, BBP, DEHP, DIBP), 砷(As), 铍(Be), 锑(Sb), 磷(P), 六溴环十二烷(HBCDD), 氟(F), 氯(Cl), 溴(Br), 碘(I), 全氟辛烷磺酸(PFOS), 全氟辛酸(PFOA), 聚氯乙烯(PVC), 四溴双酚 A (TBBP-A), 多环芳烃(PAHs)进行测试。

### Test Requested

As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Arsenic(As), Beryllium(Be), Antimony(Sb), Phosphorus(P), Hexabromocyclododecane (HBCDD), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Perfluorooctane Sulfonates(PFOS), Perfluorooctanoic Acid(PFOA), Polyvinyl Chloride (PVC), Tetrabromobisphenol A (TBBP-A), Polycyclic Aromatic Hydrocarbons (PAHs) in the submitted sample(s).

### 检测依据/检测结果

请参见下页。

Test Method/Test Result(s) Please refer to the following page(s).

主 检  
Tested by 黄伟龙

审 核  
Reviewed by 刘琳慧

批 准  
Approved by 郑晴涛

日 期  
Date 2022.09.07

郑晴涛  
技术经理 Technical Manager

No. R294348324

华测检测认证集团股份有限公司  
Centre Testing International Group Co.,Ltd.  
检验检测专用章  
Inspection & Testing Services

广东省深圳市宝安区新安街道兴东社区华测检测大楼

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

# 检测报告

## Test Report

报告编号 A222038801610104E  
Report No. A222038801610104E

第 2 页 共 16 页  
Page 2 of 16

### 检测依据 Test Method

测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
	IEC 62321-7-2:2017 和/或 IEC 62321-5:2013 测试总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
砷 Arsenic(As)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
铍 Beryllium(Be)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
锑 Antimony(Sb)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
磷 Phosphorus(P)	参考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
六溴环十二烷 Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS
氟 Fluorine (F)	参考 EN 14582:2016 Refer to EN 14582:2016	IC
氯 Chlorine (Cl)	参考 EN 14582:2016 Refer to EN 14582:2016	IC
溴 Bromine (Br)	参考 EN 14582:2016 Refer to EN 14582:2016	IC
碘 Iodine (I)	参考 EN 14582:2016 Refer to EN 14582:2016	IC
全氟辛酸磺酸 Perfluorooctane Sulfonates(PFOS)	参考 US EPA 3550C:2007 & US EPA 8321B:2007 Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS

# 检测报告

## Test Report

报告编号 A222038801610104E  
Report No. A222038801610104E

第 3 页 共 16 页  
Page 3 of 16

测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
全氟辛酸 Perfluorooctanoic Acid(PFOA)	参考 US EPA 3550C:2007 & US EPA 8321B:2007 Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS
聚氯乙烯 Polyvinyl Chloride (PVC)	参考 JY/T 001-1996 Refer to JY/T 001-1996	FT-IR
多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)	AfPS GS 2019:01 PAK	GC-MS
四溴双酚 A Tetrabromobisphenol A (TBBP-A)	参考 US EPA 3550C:2007 & US EPA 8270E:2018 Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS

# 检测报告 Test Report

报告编号 A222038801610104E  
Report No. A222038801610104E

第 4 页 共 16 页  
Page 4 of 16

**检测结果 Test Result(s)**

测试项目 Tested Item(s)	结果 Result		方法检出限 MDL
	001	002	
铅 Lead (Pb)	19465 mg/kg	N.D.	2 mg/kg
镉 Cadmium (Cd)	N.D.	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	N.D.	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	--	8 mg/kg
	--	N.D.▼	0.10 µg/cm <sup>2</sup> (LOQ)

测试项目 Tested Item(s)	结果 Result		方法检出限 MDL
	001		
<b>多溴联苯 Polybrominated Biphenyls (PBBs)</b>			
一溴联苯 Monobromobiphenyl	N.D.		5 mg/kg
二溴联苯 Dibromobiphenyl	N.D.		5 mg/kg
三溴联苯 Tribromobiphenyl	N.D.		5 mg/kg
四溴联苯 Tetrabromobiphenyl	N.D.		5 mg/kg
五溴联苯 Pentabromobiphenyl	N.D.		5 mg/kg
六溴联苯 Hexabromobiphenyl	N.D.		5 mg/kg
七溴联苯 Heptabromobiphenyl	N.D.		5 mg/kg
八溴联苯 Octabromobiphenyl	N.D.		5 mg/kg
九溴联苯 Nonabromobiphenyl	N.D.		5 mg/kg
十溴联苯 Decabromobiphenyl	N.D.		5 mg/kg

测试项目 Tested Item(s)	结果 Result		方法检出限 MDL
	001		
<b>多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)</b>			
一溴二苯醚 Monobromodiphenyl ether	N.D.		5 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.		5 mg/kg
三溴二苯醚 Tribromodiphenyl ether	N.D.		5 mg/kg
四溴二苯醚 Tetrabromodiphenyl ether	N.D.		5 mg/kg
五溴二苯醚 Pentabromodiphenyl ether	N.D.		5 mg/kg
六溴二苯醚 Hexabromodiphenyl ether	N.D.		5 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.		5 mg/kg
八溴二苯醚 Octabromodiphenyl ether	N.D.		5 mg/kg
九溴二苯醚 Nonabromodiphenyl ether	N.D.		5 mg/kg
十溴二苯醚 Decabromodiphenyl ether	N.D.		5 mg/kg

# 检测报告 Test Report

报告编号 A222038801610104E  
Report No. A222038801610104E

第 5 页 共 16 页  
Page 5 of 16

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
<b>邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)</b>		
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
砷 Arsenic (As)	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
铍 Beryllium (Be)	N.D.	2 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
锑 Antimony (Sb)	N.D.	5 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
磷 Phosphorus (P)	182 mg/kg	20 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
六溴环十二烷 Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

# 检测报告

## Test Report

报告编号 A222038801610104E  
Report No. A222038801610104E

第 6 页 共 16 页  
Page 6 of 16

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
氟 Fluorine (F)	N.D.	10 mg/kg
氯 Chlorine (Cl)	N.D.	10 mg/kg
溴 Bromine (Br)	N.D.	10 mg/kg
碘 Iodine (I)	N.D.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS)	N.D.	0.010 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
全氟辛酸 Perfluorooctanoic Acid (PFOA)	N.D.	0.010 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
聚氯乙烯 Polyvinyl Chloride (PVC)	阴性 Negative	/

# 检测报告

## Test Report

报告编号 A222038801610104E  
Report No. A222038801610104E

第 7 页 共 16 页  
Page 7 of 16

测试项目 Tested Item(s)	结果 Result	方法检出限
	001	MDL
<b>多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)</b>		
萘 Naphthalene	N.D.	0.2 mg/kg
菲 Phenanthrene	N.D.	0.2 mg/kg
蒽 Anthracene	N.D.	0.2 mg/kg
荧蒽 Fluoranthene	N.D.	0.2 mg/kg
芘 Pyrene	N.D.	0.2 mg/kg
蒾 Chrysene	N.D.	0.2 mg/kg
苯并(a)蒽 Benzo(a)anthracene	N.D.	0.2 mg/kg
苯并(b)荧蒽 Benzo(b)fluoranthene	N.D.	0.2 mg/kg
苯并(k)荧蒽 Benzo(k)fluoranthene	N.D.	0.2 mg/kg
苯并(j)荧蒽 Benzo(j)fluoranthene	N.D.	0.2 mg/kg
苯并(a)芘 Benzo(a)pyrene	N.D.	0.2 mg/kg
苯并(e)芘 Benzo(e)pyrene	N.D.	0.2 mg/kg
二苯并(a,h)蒽 Dibenzo(a,h)anthracene	N.D.	0.2 mg/kg
苯并(g,h,i)芘 Benzo(g,h,i)perylene	N.D.	0.2 mg/kg
茚并(1,2,3-cd)芘 Indenol(1,2,3-cd)pyrene	N.D.	0.2 mg/kg
菲,蒽,荧蒽,芘总量 Sum (Phenanthrene, Anthracene, Fluoranthene, Pyrene)	N.D.	/
15 PAHs 总量 Sum 15 PAHs	N.D.	/

# 检测报告

## Test Report

报告编号 A222038801610104E  
Report No. A222038801610104E

第 8 页 共 16 页  
Page 8 of 16

**可接触的表面材料中 PAHs 含量限值(mg/kg)(按风险评估的结果分类)**  
**Maximum PAHs limits (mg/kg) for the materials with relevant contact/grip and operating surfaces that are to be categorised based on the results of the risk assessment**

参数 Parameters	一类 Category 1	二类 Category 2		三类 Category 3	
	可放入口中的材料，或预期和皮肤接触时间超过 30 秒（长时间接触）2009/48/EC 定义的玩具材料或供 3 岁以下儿童使用的产品 Materials intended to be placed in the mouth, or materials in toys according to Directive 2009/48/EC or materials for the use by children up to 3 years of age coming into long-term contact with skin (more than 30s) during the intended use	未包含在第一类材料中，预期和皮肤接触时间超过 30 秒（长时接触），或者和皮肤短时间频繁接触** 的材料 Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact** with skin during the intended or foreseeable use	供儿童（< 14 岁）使用的产品（包括主动和被动直接接触） Use by children (< 14 years) (include both active and passive direct contact)	其他类产品 Other consumer products	供儿童（< 14 岁）使用的产品（包括主动和被动直接接触） Use by children (< 14 years) (include both active and passive direct contact)
苯并(a)芘 Benzo(a)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 Benzo(e)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(a)蒽 Benzo(a)anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(b)荧蒽 Benzo(b)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(j)荧蒽 Benzo(j)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(k)荧蒽 Benzo(k)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
蒽Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽 Dibenz(a,h)anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)苝 Benzo(g,h,i)perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚并(1,2,3-cd)芘 Indenol(1,2,3-cd)pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
菲, 葱, 荧葱, 芘	总量 < 1	总量 < 5	总量 < 10	总量 < 20	总量 < 50

# 检测报告

## Test Report

报告编号 A222038801610104E  
Report No. A222038801610104E

第 9 页 共 16 页  
Page 9 of 16

Phenanthrene, Anthracene, Fluoranthene, Pyrene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
萘 Naphthalene	< 1	< 2		< 10	
15 PAHs 总量 Sum 15 PAHs	< 1	< 5	< 10	< 20	< 50

\*\* “短时间频繁接触” 来自REACH法规附录XVII第50项的修订案(法规 (EU) No. 1272/2013)  
Definition “short-term repetitive contact” taken from REACH Annex XVII entry 50 amendment  
(REGULATION (EU) No.1272/2013)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
四溴双酚 A Tetrabromobisphenol A (TBBP-A)	N.D.	5 mg/kg

# 检测报告 Test Report

报告编号 A222038801610104E  
Report No. A222038801610104E

第 10 页 共 16 页  
Page 10 of 16

## 样品/部位描述 Sample/Part Description

001 黑色本体（整体测试） Black body(Tested as a whole)\*  
002 带有银色镀层的金属引脚 Metal pin with silvery plating

备注: -对于检测铅, 镉, 汞, 砷, 铍, 锑, 磷之样品已消解完全。  
-\*按照目前手段, 样品无法进一步拆分, 样品整体测试, 测试结果不代表整体测试样品中任何一种单一材质的含量。  
-N.D. = 未检出 (小于方法检出限或定量限)  
-mg/kg = ppm = 百万分之一  
-LOQ = 定量限, 六价铬的定量限为 0.10  $\mu\text{g}/\text{cm}^2$   
-▼六价铬浓度小于 0.10  $\mu\text{g}/\text{cm}^2$ , 样品未检出六价铬。  
-阴性表示不含有聚氯乙烯(PVC)  
-根据客户声明, 样品涉及欧盟 RoHS 指令 2011/65/EU 豁免项第 7(a)& 7(c)-I 条:  
7(a):高温熔融焊料中的铅 (即: 铅基合金中铅含量  $\geq 85\%$  (Wt))。  
7(c)-I :电气电子元件的玻璃或陶瓷中的铅, 电容器的介电陶瓷除外, 如压电玻璃或陶瓷装置。

Remark: **-The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Arsenic, Beryllium, Antimony, Phosphorus.**  
**-\*The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.**  
-MDL = Method Detection Limit  
-N.D. = Not Detected (<MDL or LOQ)  
-mg/kg = ppm = parts per million  
-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10  $\mu\text{g}/\text{cm}^2$   
-▼The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10  $\mu\text{g}/\text{cm}^2$ . The coating is considered a non-Cr(VI) based coating.  
-Negative = Not Contained Polyvinyl Chloride(PVC)  
-According to the client's statement, the material of the sample(s) fall into exemption items 7(a) & 7(c)-I according to EU Directive 2011/65/EU:  
7(a):Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).  
7(c)-I : Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

注释: 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。

Note: **The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.**

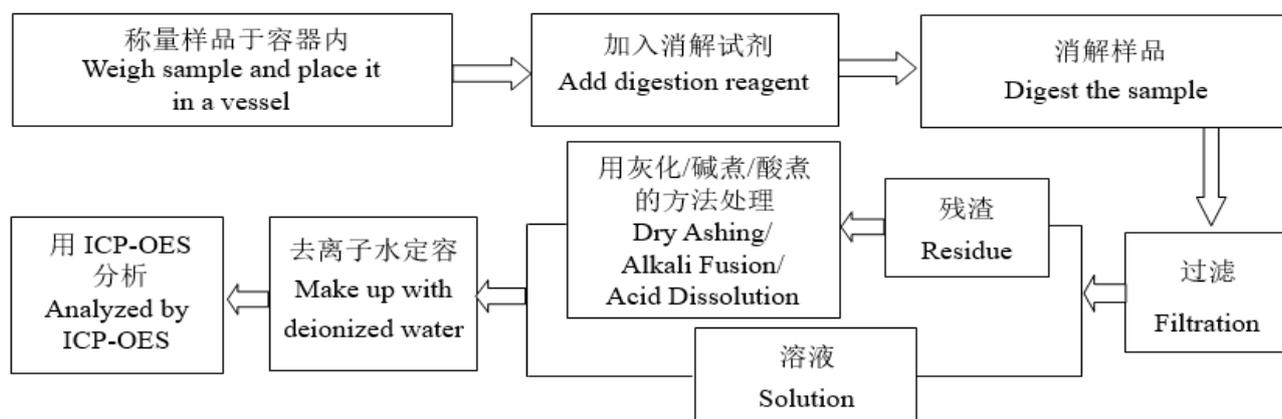
# 检测报告 Test Report

报告编号 A222038801610104E  
Report No. A222038801610104E

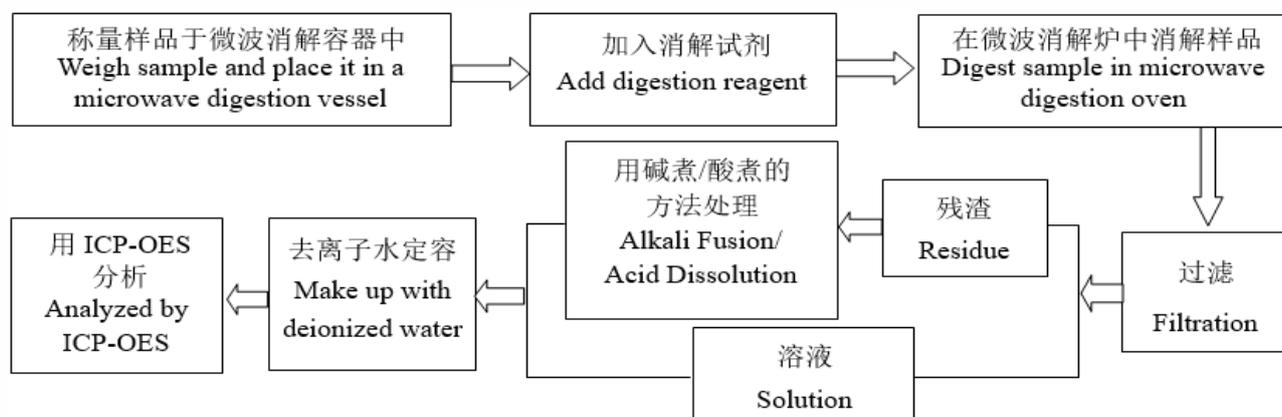
第 11 页 共 16 页  
Page 11 of 16

## 检测流程 Test Process

### 1. 铅 Lead (Pb), 镉 Cadmium (Cd), 铬 Chromium (Cr)

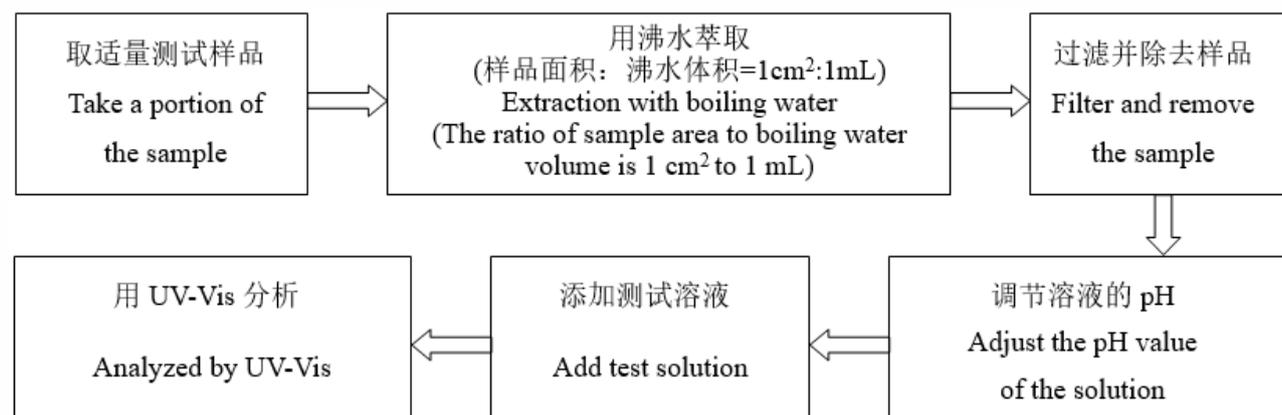


### 2. 汞 Mercury (Hg)



### 3. 六价铬 Hexavalent Chromium (Cr(VI))

#### (1) IEC 62321-7-1:2015

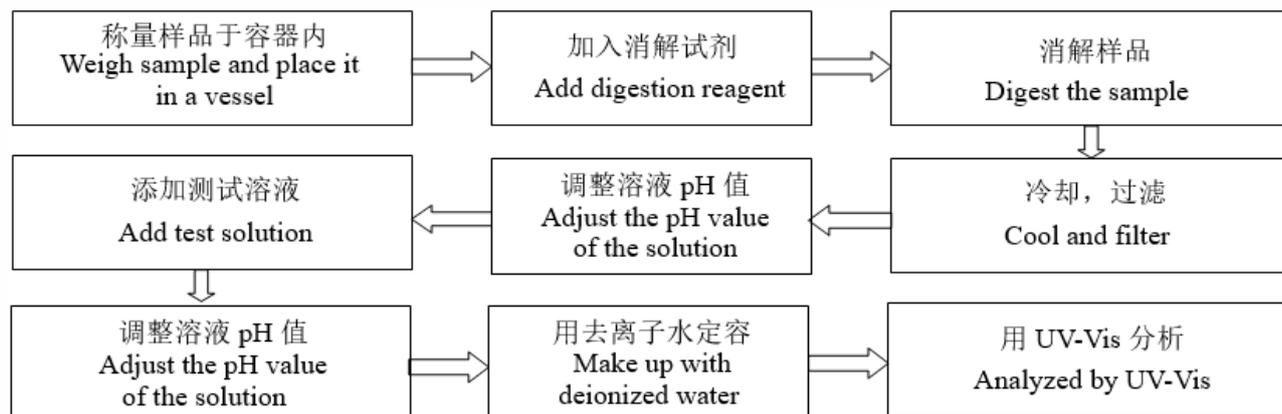


# 检测报告 Test Report

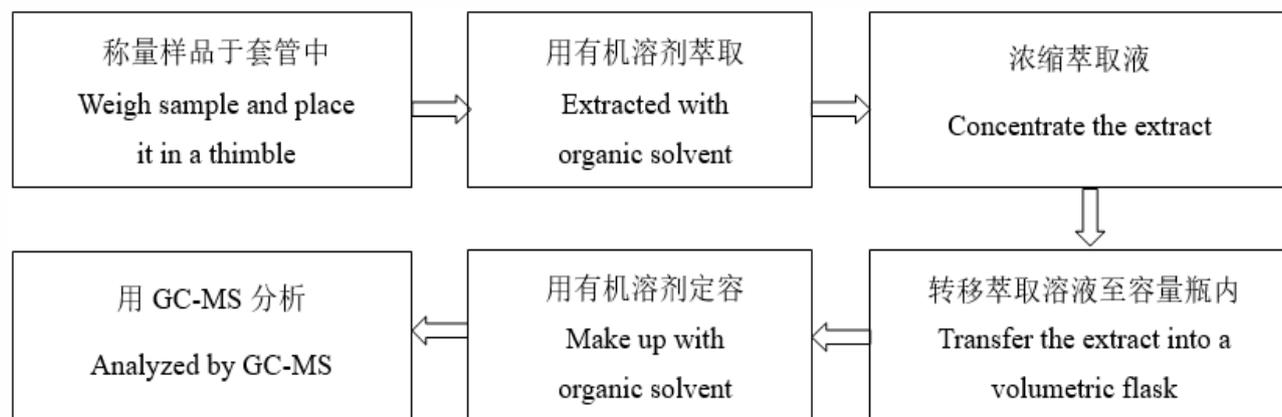
报告编号 A222038801610104E  
Report No. A222038801610104E

第 12 页 共 16 页  
Page 12 of 16

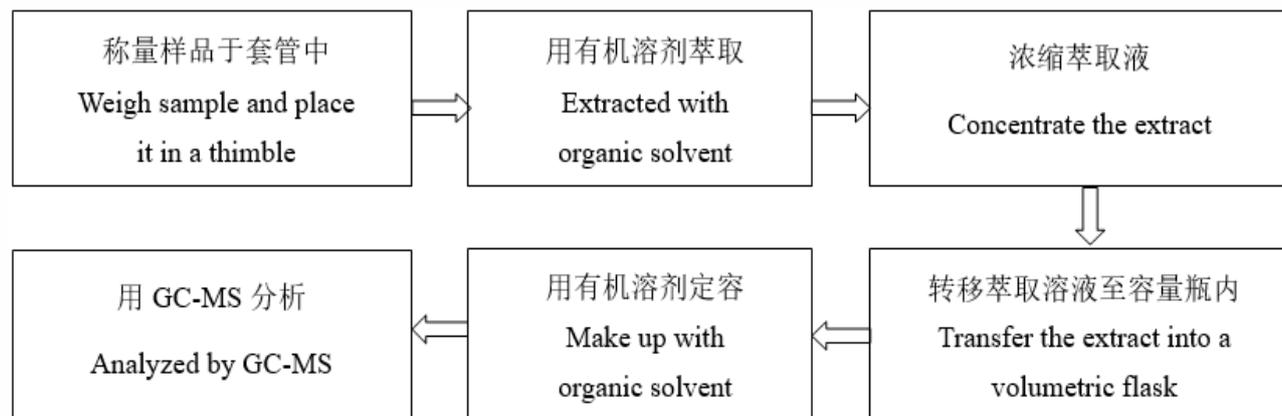
## (2) IEC 62321-7-2:2017



## 4. 多溴联苯 Polybrominated Biphenyls (PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)



## 5. 邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)

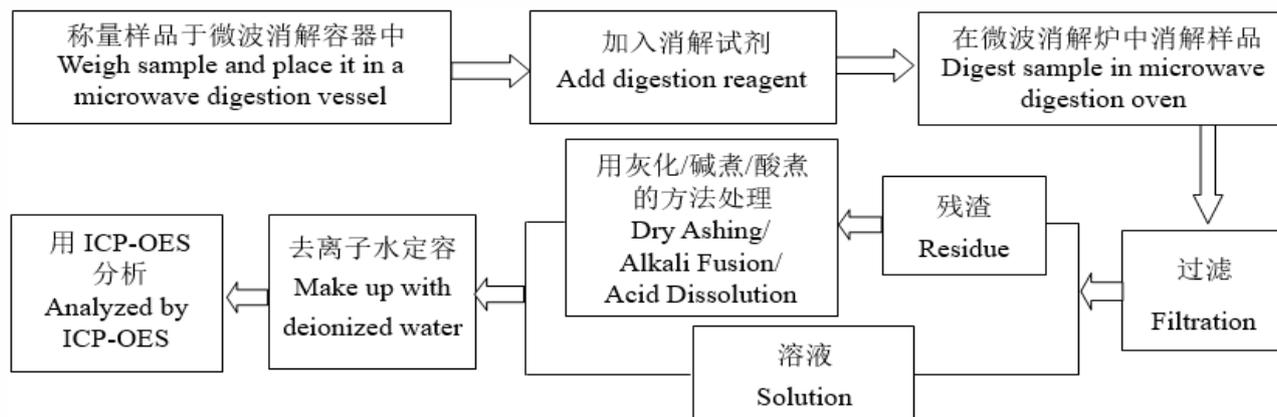


# 检测报告 Test Report

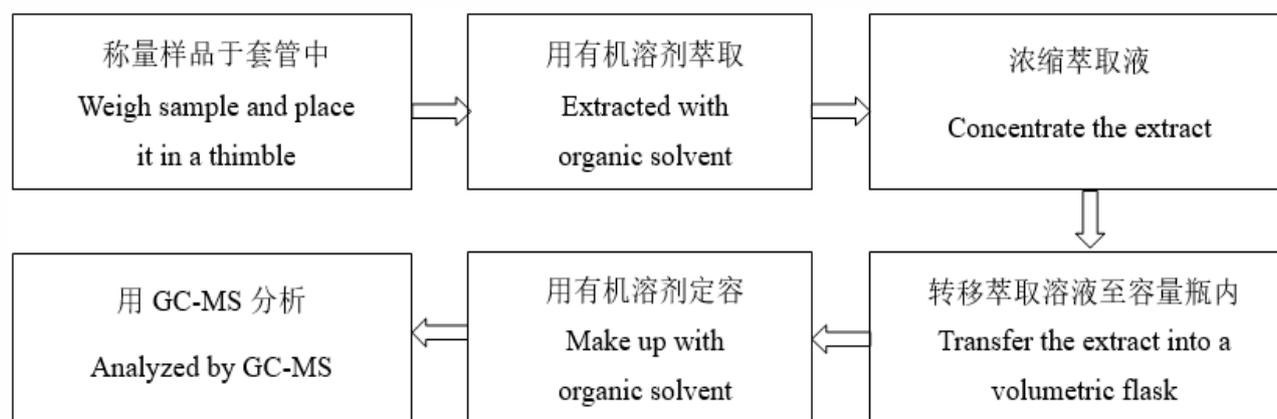
报告编号 A222038801610104E  
Report No. A222038801610104E

第 13 页 共 16 页  
Page 13 of 16

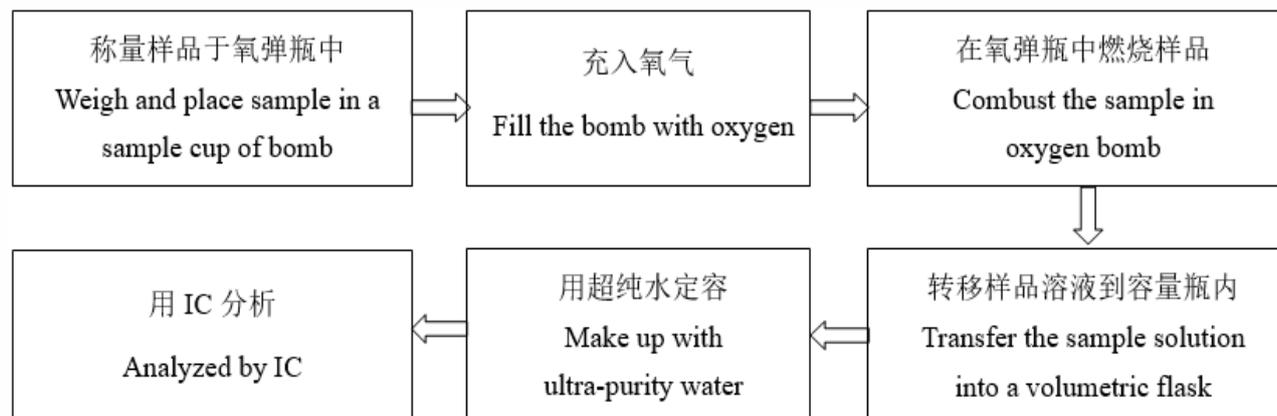
## 6. 砷 Arsenic(As), 铍 Beryllium(Be), 锑 Antimony(Sb), 磷 Phosphorus(P)



## 7. 六溴环十二烷 Hexabromocyclododecane (HBCDD)



## 8. 氟 Fluorine (F), 氯 Chlorine (Cl), 溴 Bromine (Br), 碘 Iodine (I)

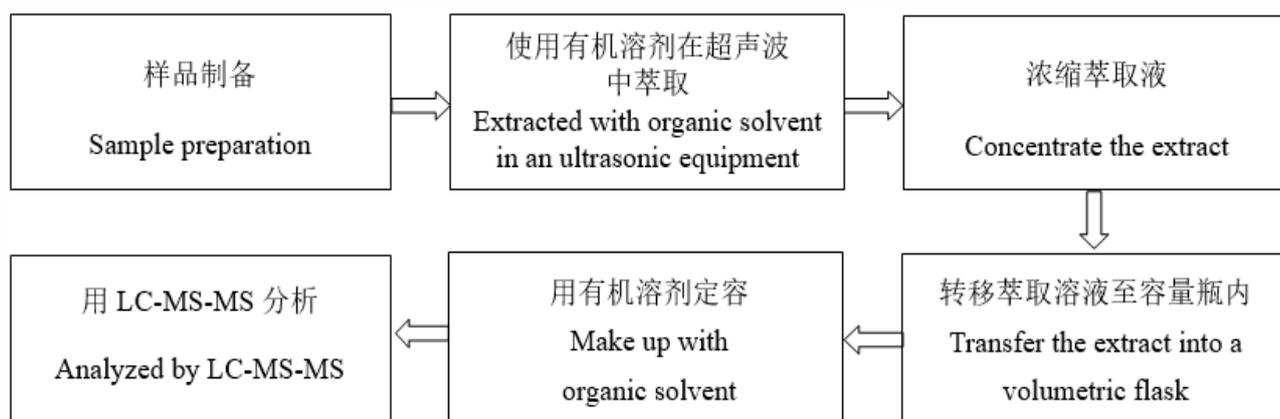


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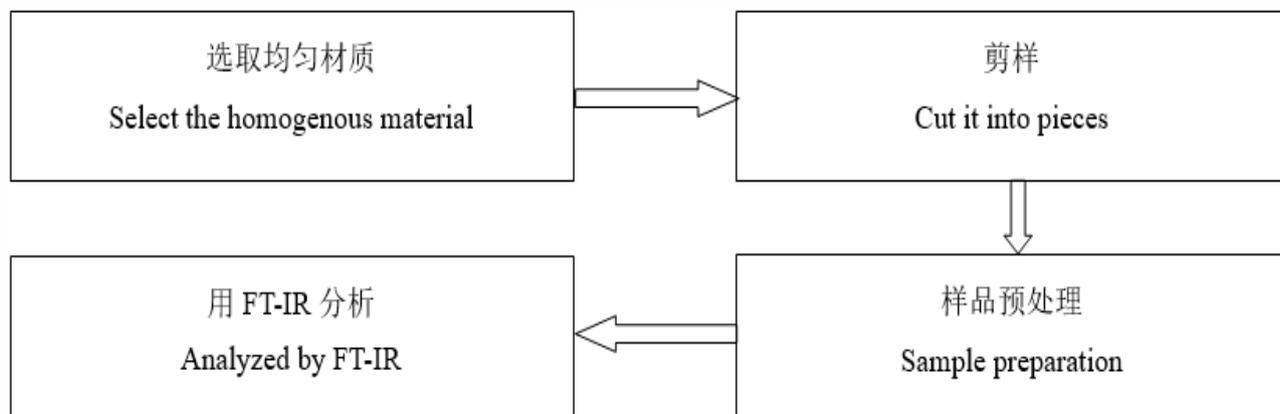
报告编号 A222038801610104E  
Report No. A222038801610104E

第 14 页 共 16 页  
Page 14 of 16

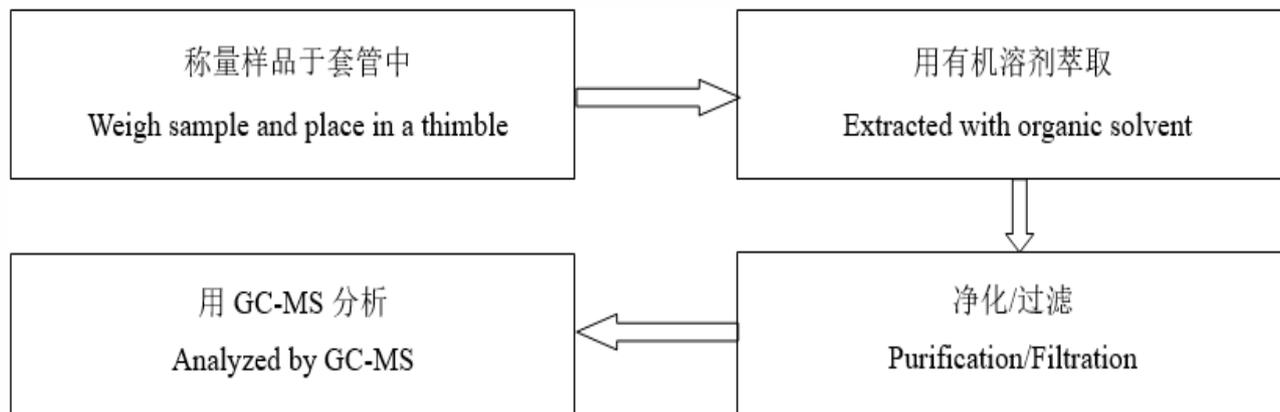
## 9. 全氟辛烷磺酸(PFOS)Perfluorooctane Sulfonates(PFOS), 全氟辛酸(PFOA)Perfluorooctanoic Acid(PFOA)



## 10. 聚氯乙烯 Polyvinyl Chloride (PVC)



## 11. 多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)

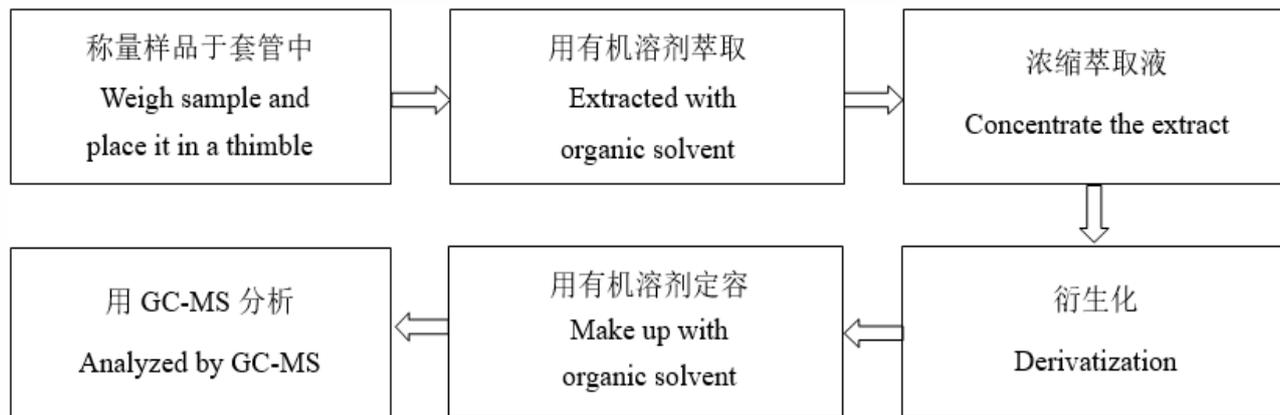


# 检测报告 Test Report

报告编号 A222038801610104E  
Report No. A222038801610104E

第 15 页 共 16 页  
Page 15 of 16

## 12. 四溴双酚 A Tetrabromobisphenol A (TBBP-A)



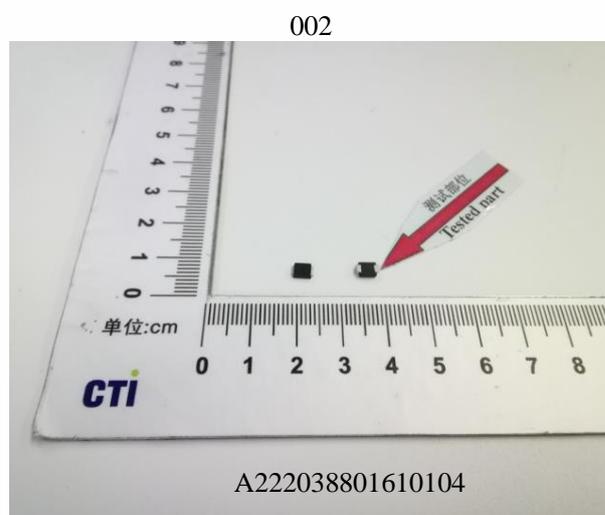
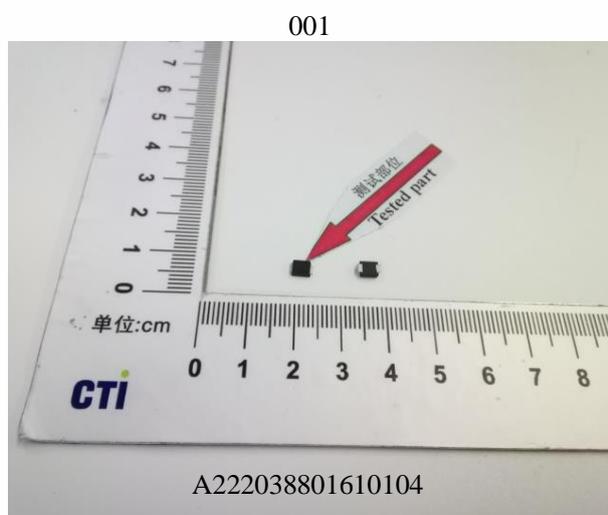
# 检测报告 Test Report

报告编号 A222038801610104E  
Report No. A222038801610104E

第 16 页 共 16 页  
Page 16 of 16

## 样品图片

### Photo(s) of the sample(s)



#### 声明 Statement:

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;

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3. 本报告检测结果仅对受测样品负责;

The result(s) shown in this report refer(s) only to the sample(s) tested;

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\*\*\* 报告结束 \*\*\*

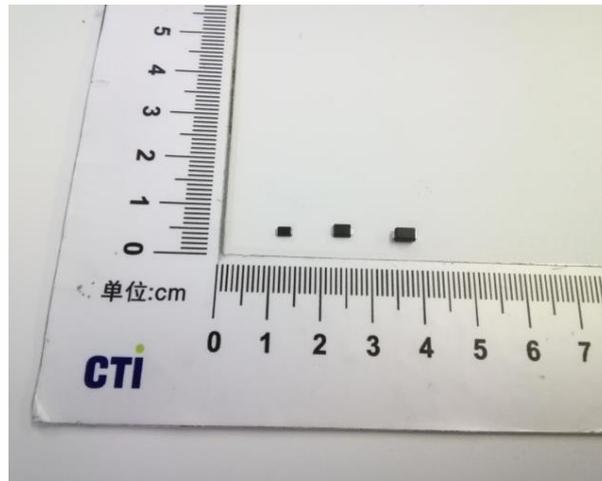
\*\*\* End of Report \*\*\*

## 附录 Appendix

### 客户参考信息 Client Reference Information

SMA,SMA-1, SMAF,SMAF-1,SOD-123FL,SOD-123FL-1, SMA(W) ,SMBF-1

### 客户参考图片（非测试样品） Client Reference Photo (Non-tested sample)



### 声明 Statement:

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2. 附录内容为 A222038801610104E 报告的补充。  
The Appendix Information is/are the supplement(s) for the Report A222038801610104E.