

检测报告
Test Report报告编号 A2230213094103024E
Report No. A2230213094103024E第 1 页 共 11 页
Page 1 of 11报告抬头公司名称 太阳油墨(苏州)有限公司
Company Name TAIYO INK(SUZHOU)CO.,LTD.
shown on Report地 址 中国江苏省苏州市苏州高新区泰山路26号
Address NO.26 TAISHAN ROAD,SUZHOU NEW DISTRICT, SUZHOU CITY ,JIANGSU
PROVINCE,P.R.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	PSR-2000 CE886ME/CA-25 CE96M(UL No:PSR-2000DG/CA-25BV)
Sample Name	PSR-2000 CE886ME/CA-25 CE96M(UL No:PSR-2000DG/CA-25BV)
样品型号	二液性显像型防焊油墨(固化膜)
Part No.	Photoimageable Solder Resist(Cured)
样品颜色	黑色
Color	Black
样品批号	23041028/23040818
Item No.	23041028/23040818
材料名称	树脂/填充粉/色粉/其他
Material	Resin/fillers/Pigment/else
样品接收日期	2023.05.09
Sample Received Date	May 9, 2023
样品检测日期	2023.05.09-2023.05.15
Testing Period	May 9, 2023 to May 15, 2023

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), 氟(F), 氯(Cl), 溴(Br), 碘(I), 邻苯二甲酸酯, 六溴环十二烷(HBCDD)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), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Phthalates , Hexabromocyclododecane (HBCDD) 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).



批 准
Approved by

宋岩
技术经理 Technical Manager

日 期
Date 2023.05.15

No. R375301240

江苏省苏州市相城区澄阳路3286号
No.3286Chengyang Road, Xiangcheng District, Suzhou,Jiangsu

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结论 Conclusion

测试样品 Tested Sample	依据标准/指令 According to standard/directive	结果 Result
提交样品 Submitted Sample	欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863 RoHS Directive 2011/65/EU with amendment (EU) 2015/863	符合 PASS

符合表示检测结果满足欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863要求的限值。
PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

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检测依据 Test Method

测试项目 Test 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 62321-7-2:2017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
邻苯二甲酸酯Phthalates (DBP, BBP, DEHP, DINP, DNOP, DIDP, DMP, DEP, DPrP, DIBP, DPP/DPENP, DCHP, DHP, DIOP, DNP, DINP)	参考EN 14372:2004(E)* Refer to EN 14372:2004(E)*	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
六溴环十二烷 Hexabromocyclododecane (HBCDD)	参考US EPA 3550C:2007 & US EPA 8270E:2018* Refer to US EPA 3550C:2007 & US EPA 8270E:2018*	GC-MS

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	024		
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	024		
多溴联苯 Polybrominated Biphenyls (PBBs)			
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg	1000 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	限值 Limit
	024		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg	1000 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	

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	024		
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)			
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 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	1000 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	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	024	
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DINP, DNOP, DIDP, DMP, DEP, DPrP, DIBP, DPP/DPENP, DCHP, DHP, DIOP, DNP, DINa)		
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-乙基己基)酯 Bis(2-ethyl(hexyl)phthalate) (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
邻苯二甲酸二异壬酯 Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	50 mg/kg
邻苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	50 mg/kg
邻苯二甲酸二异癸酯 Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50 mg/kg
邻苯二甲酸二甲酯 Dimethyl phthalate (DMP) CAS#:131-11-3	N.D.	50 mg/kg
邻苯二甲酸二乙酯 Diethyl phthalate (DEP) CAS#:84-66-2	N.D.	50 mg/kg
邻苯二甲酸二丙酯 Dipropyl phthalate (DPrP) CAS#:131-16-8	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
邻苯二甲酸二戊酯 Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0	N.D.	50 mg/kg
邻苯二甲酸二环己酯 Dicyclohexyl phthalate (DCHP) CAS#:84-61-7	N.D.	50 mg/kg
邻苯二甲酸二庚酯 Diheptyl phthalate (DHP) CAS#:3648-21-3	N.D.	50 mg/kg

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邻苯二甲酸二异辛酯 Diisooctyl phthalate (DIOP) CAS#:27554-26-3	N.D.	50 mg/kg
邻苯二甲酸二壬酯 Dinonyl phthalate (DNP) CAS#:84-76-4	N.D.	50 mg/kg
己二酸二异壬酯 Diisononyl adipate (DINA) CAS#:33703-08-1	N.D.	50 mg/kg
测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	024	
氟 Fluorine (F)	245 mg/kg	10 mg/kg
氯 Chlorine (Cl)	352 mg/kg	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
	024	
六溴环十二烷 Hexabromocyclododecane (HBCDD)	N.D.	5 mg/kg

样品/部位描述 Sample/Part Description

序号 No.	CTI样品ID CTI Sample ID	描述 Description
1	024	黑色固体 Black solid

备注: 对于检测铅, 镉, 汞之样品已使用以下流程图所示的酸预处理方法完全溶解。
-N.D. = 未检出 (小于方法检出限)
-mg/kg = ppm = 百万分之一
-1000 mg/kg = 0.1%

Remark: The sample was dissolved/decomposed totally by acid pre-conditioning method for Lead, Cadmium, Mercury according to below flow chart.
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million
-1000 mg/kg = 0.1%

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。
“*”表示该方法不在CNAS认可范围内。

Note: The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.
“*”indicates the method(s) is (are) not in CNAS accreditation scope.

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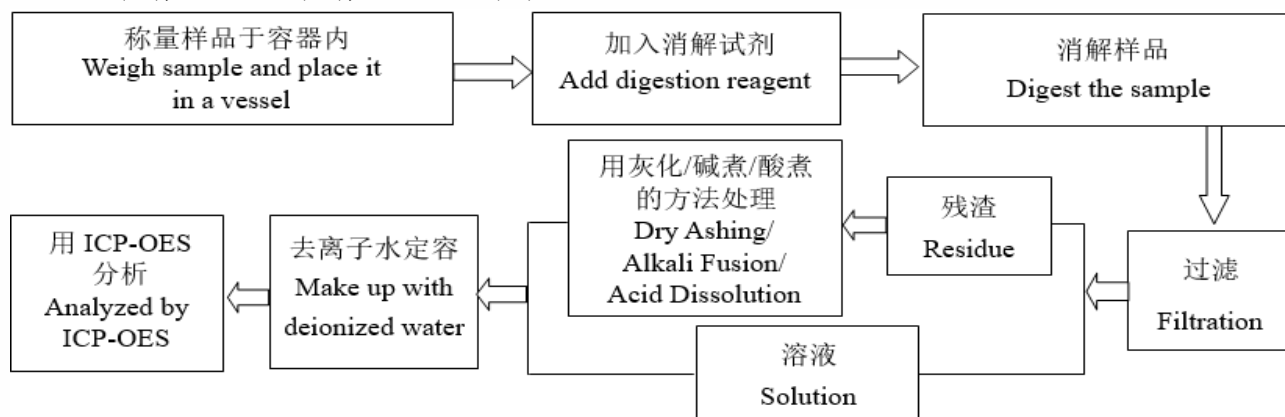
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检测流程 Test Process

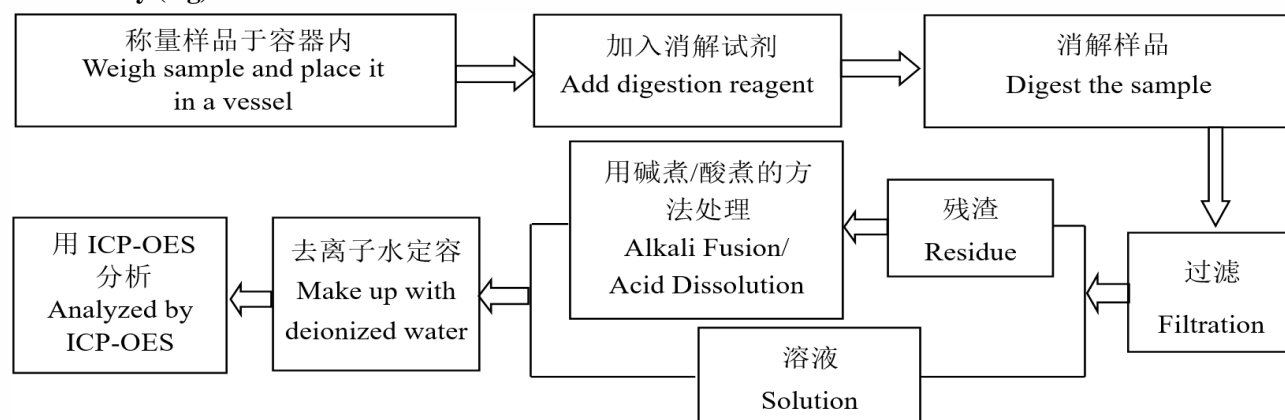
1. 铅(Pb), 镉(Cd), 铬(Cr)

Lead (Pb), Cadmium (Cd), Chromium (Cr)



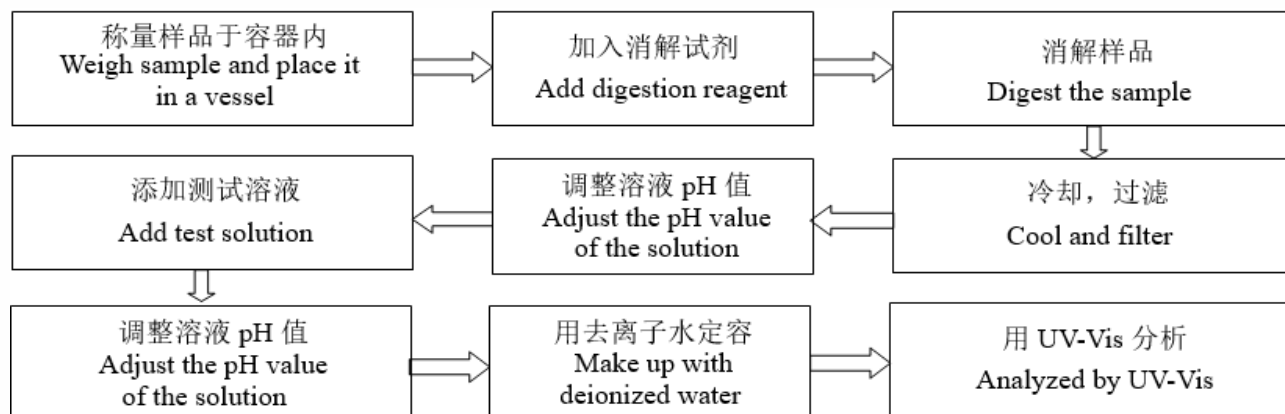
2. 汞(Hg)

Mercury (Hg)



3. 六价铬(Cr(VI))

Hexavalent Chromium (Cr(VI))



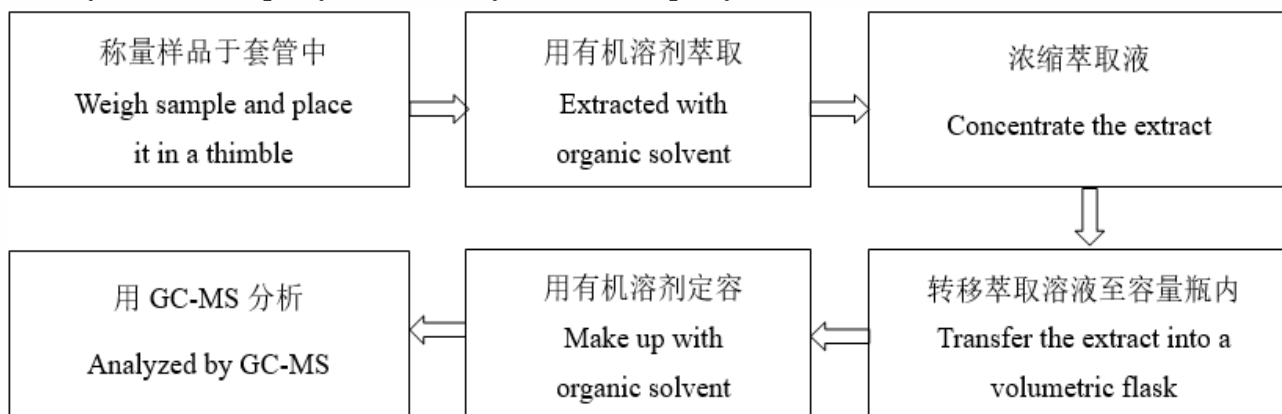
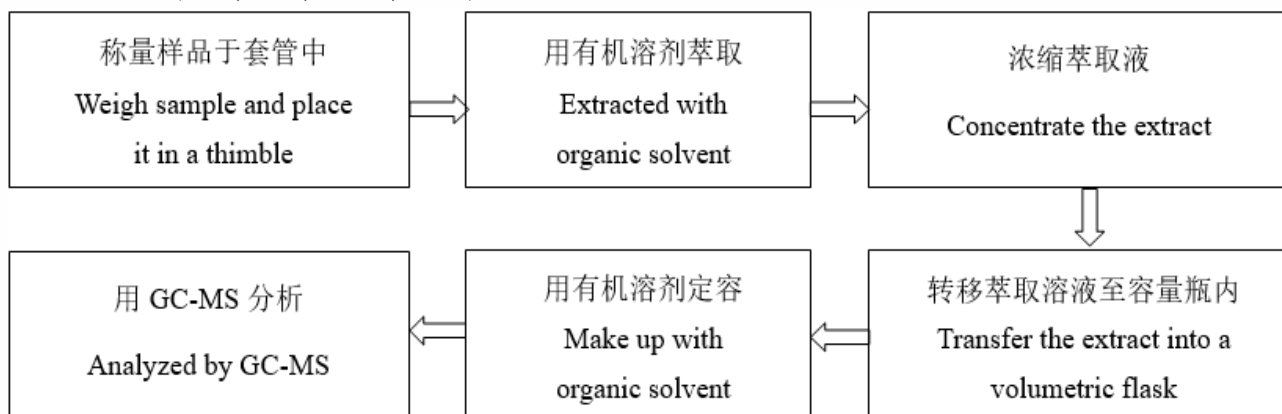
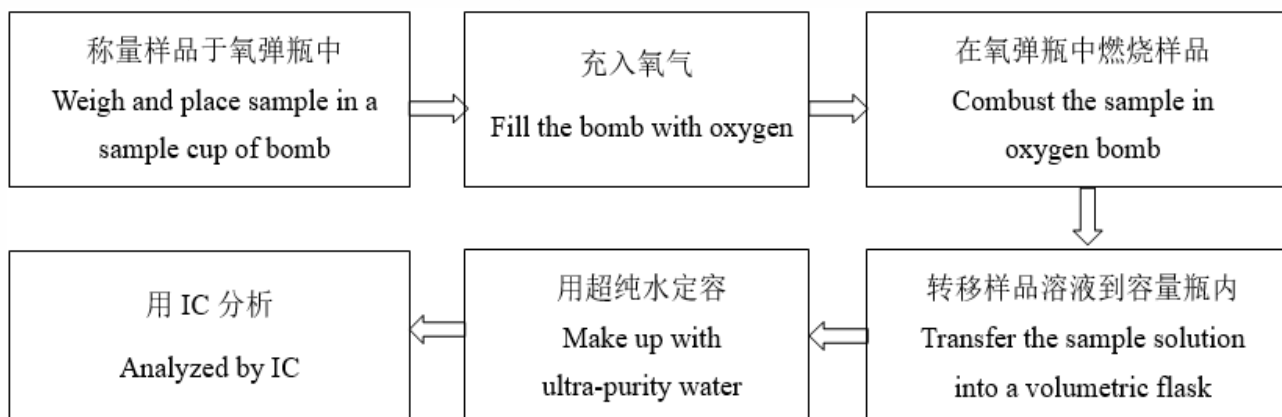
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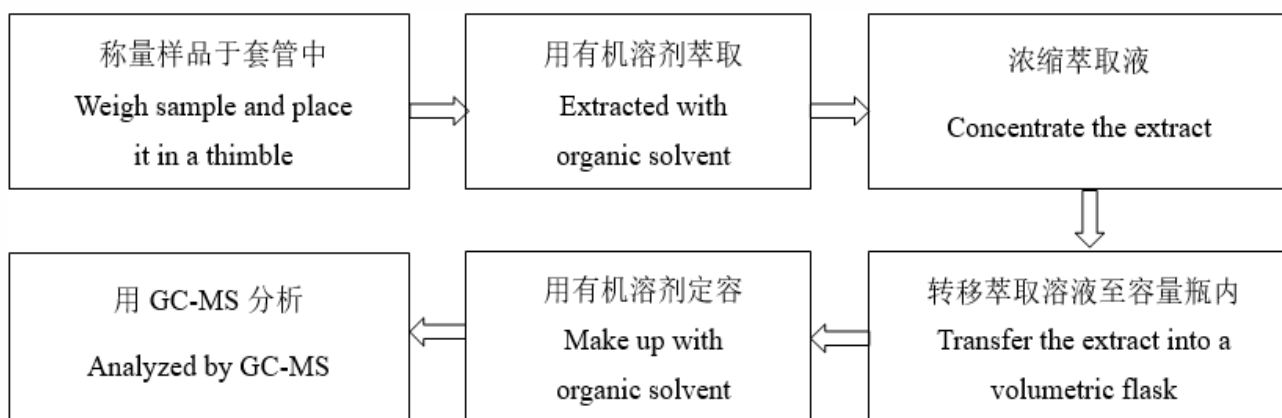
4. 多溴联苯(PBBs), 多溴二苯醚(PBDEs)**Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)****5. 邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)****Phthalates (DBP, BBP, DEHP, DIBP)****6. 氟(F), 氯(Cl), 溴(Br), 碘(I)****Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)**

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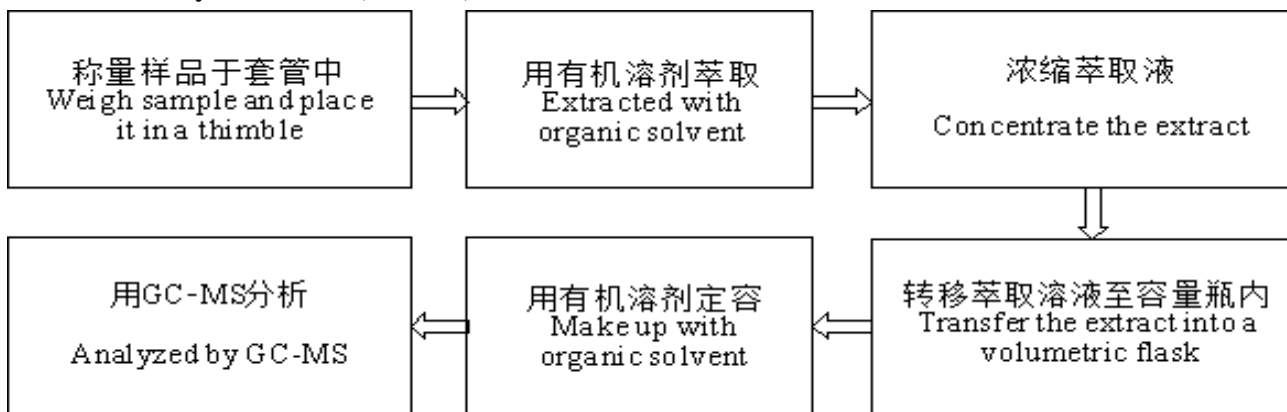
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7. 邻苯二甲酸酯(DBP, BBP, DEHP, DINP, DNOP, DIDP, DMP, DEP, DPtP, DIBP, DPP/DPENP, DCHP, DHP, DIOP, DNP, DINP)
Phthalates (DBP, BBP, DEHP, DINP, DNOP, DIDP, DMP, DEP, DPtP, DIBP, DPP/DPENP, DCHP, DHP, DIOP, DNP, DINP)



8. 六溴环十二烷(HBCDD)
Hexabromocyclododecane (HBCDD)



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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;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
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;
4. 未经CTI书面同意, 不得部分复制本报告;
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In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

报告结束

*** End of report ***