



检测报告

Test Report

报告编号 A2230164929101001E
Report No. A2230164929101001E

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报告抬头公司名称 衡所华威电子有限公司
Company Name HYSOL HUAWEI ELECTRONICS CO., LTD.
shown on Report
地址 江苏省连云港市高新技术产业开发区振华路 8 号
Address NO.8 ZHENHUA ROAD, HIGH-TECH INDUSTRIAL DEVELOPMENT ZONE,
LIANYUNGANG, JIANGSU

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 环氧膜塑料
Sample Name Mold Compound
样品型号 GR646,GR646CHN
Part No. GR646,GR646CHN
样品接收日期 2023.04.13
Sample Received Date Apr. 13, 2023
样品检测日期 2023.04.13-2023.04.18
Testing Period Apr. 13, 2023 to Apr. 18, 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), 邻苯二甲酸酯, 砷(As), 铍(Be), 锑(Sb), 六溴环十二烷(HBCDD), 氟(F), 氯(Cl), 溴(Br), 碘(I), 全氟辛酸磺酸(PFOS), 全氟辛酸(PFOA), 四溴双酚 A (TBBP-A), 聚氯乙烯(PVC), 多环芳烃(PAHs), 红磷进行测试。

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, Arsenic (As), Beryllium (Be), Antimony (Sb), Hexabromocyclododecane (HBCDD), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Perfluorooctane Sulfonates (PFOS), Perfluorooctanoic Acid (PFOA), Tetrabromobisphenol A (TBBP-A), Polyvinyl Chloride (PVC), Polycyclic Aromatic Hydrocarbons (PAHs), Red phosphorus 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



陈凯敏

实验室经理 Lab Manager

上海华测品标检测技术有限公司

Centre Testing International Pinbiao (Shanghai) Co., Ltd.

日期

Date

2023.04.18

No. R475312076

上海市闵行区万芳路 1351 号

No.1351, Wanfang Road, Minhang District, Shanghai, China

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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 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 62321-7-2:2017 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
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
全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS)	参考 CEN/TS 15968:2010* Refer to CEN/TS 15968:2010*	LC-MS-MS/LC-MS
全氟辛酸 Perfluorooctanoic Acid (PFOA)	参考 CEN/TS 15968:2010* Refer to CEN/TS 15968:2010*	LC-MS-MS/LC-MS
四溴双酚 A Tetrabromobisphenol A (TBBP-A)	参考 US EPA 3550C:2007 & US EPA 8321B:2007* Refer to US EPA 3550C:2007 & US EPA 8321B:2007*	LC-MS-MS/LC-MS
邻苯二甲酸酯 Phthalates	IEC 62321-8:2017	GC-MS

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测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
聚氯乙烯 Polyvinyl Chloride (PVC)	参考 JY/T 001-1996* Refer to JY/T 001-1996*	FT-IR
红磷 Red phosphorus*	参考 GB/T 6040-2002, GB/T 9722-2006, GB/T 17359-2012, EPA 6010D:2014 Refer to GB/T 6040-2002, GB/T 9722-2006, GB/T 17359-2012, EPA 6010D:2014	ICP-OES, PY-GC-MS, FTIR, EM
多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)	AfPS GS 2019:01 PAK	GC-MS

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
铅 Lead (Pb)CAS#:7439-92-1	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd) CAS#:7440-43-9	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg) CAS#:7439-97-6	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI)) CAS#:18540-29-9	N.D.	8 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	限值 Limit
	001		
多溴联苯 Polybrominated Biphenyls (PBBs)*¹			
一溴联苯 Monobromobiphenyl CAS#:92-66-0	N.D.	5 mg/kg	1000 mg/kg
二溴联苯 Dibromobiphenyl CAS#:92-86-4	N.D.	5 mg/kg	
三溴联苯 Tribromobiphenyl CAS#:115245-07-3	N.D.	5 mg/kg	
四溴联苯 Tetrabromobiphenyl CAS#:60044-24-8	N.D.	5 mg/kg	
五溴联苯 Pentabromobiphenyl CAS#:59080-39-6	N.D.	5 mg/kg	
六溴联苯 Hexabromobiphenyl CAS#:60044-26-0	N.D.	5 mg/kg	
七溴联苯 Heptabromobiphenyl CAS#:67733-52-2	N.D.	5 mg/kg	
八溴联苯 Octabromobiphenyl CAS#:119264-60-7	N.D.	5 mg/kg	
九溴联苯 Nonabromobiphenyl CAS#:69278-62-2	N.D.	5 mg/kg	
十溴联苯 Decabromobiphenyl CAS#:13654-09-6	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
	001		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs) *1			
一溴二苯醚 Monobromodiphenyl ether CAS#:101-55-3	N.D.	5 mg/kg	1000 mg/kg
二溴二苯醚 Dibromodiphenyl ether CAS#:2050-47-7	N.D.	5 mg/kg	
三溴二苯醚 Tribromodiphenyl ether CAS#:147217-78-5	N.D.	5 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether CAS#:5436-43-1	N.D.	5 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether CAS#:60348-60-9	N.D.	5 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether CAS#:68631-49-2	N.D.	5 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether CAS#:207122-16-5	N.D.	5 mg/kg	
八溴二苯醚 Octabromodiphenyl ether CAS#:337513-72-1	N.D.	5 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether CAS#:63387-28-0	N.D.	5 mg/kg	
十溴二苯醚 Decabromodiphenyl ether CAS#:1163-19-5	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
	001		
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

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
砷 Arsenic (As) CAS#: 7440-38-2	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.	10 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
锑 Antimony (Sb)	N.D.	10 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) CAS#: 25637-99-4; 3194-55-6; (134237-50-6); (134237-51-7); (134237-52-8)	N.D.	20 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
氟 Fluorine (F) CAS#:7782-41-4	N.D.	10 mg/kg
氯 Chlorine (Cl) CAS#:7782-50-5	125 mg/kg	10 mg/kg
溴 Bromine (Br) CAS#:7726-95-6	N.D.	10 mg/kg
碘 Iodine (I) CAS#:7553-56-2	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) CAS#: 2795-39-3	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) CAS#: 335-67-1	N.D.	0.010 mg/kg

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) CAS#:79-94-7	N.D.	5 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
邻苯二甲酸酯 Phthalates		
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
*邻苯二甲酸二己酯 Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3	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
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
邻苯二甲酸酯 Phthalates		
*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(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
邻苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP) CAS#:117-84-0	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
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	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
*邻苯二甲酸二乙酯 Diethyl phthalate (DEP) CAS#:84-66-2	N.D.	50 mg/kg
*己二酸二异壬酯 Diisononyladipate (DINA) CAS#:33703-08-1	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
*邻苯二甲酸二丙酯 Dipropyl phthalate (DPrP) CAS#:131-16-8	N.D.	50 mg/kg
*邻苯二甲酸二苯酯 Diphenyl phthalate (DPhP) CAS#:84-62-8	N.D.	50 mg/kg
*邻苯二甲酸二(2-甲氧基)乙酯 Bis(2-methoxyethyl) phthalate (DMEP) CAS#:117-82-8	N.D.	50 mg/kg

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

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)		
萘 Naphthalene CAS#:91-20-3	N.D.	0.2 mg/kg
菲 Phenanthrene CAS#:85-01-8	N.D.	0.2 mg/kg
蒽 Anthracene CAS#:120-12-7	N.D.	0.2 mg/kg
荧蒽 Fluoranthene CAS#:206-44-0	N.D.	0.2 mg/kg
芘 Pyrene CAS#:129-00-0	N.D.	0.2 mg/kg
蒾 Chrysene CAS#:218-01-9	N.D.	0.2 mg/kg
苯并(a)蒽 Benzo(a)anthracene CAS#:56-55-3	N.D.	0.2 mg/kg
苯并(b)荧蒽 Benzo(b)fluoranthene CAS#:205-99-2	N.D.	0.2 mg/kg
苯并(k)荧蒽 Benzo(k)fluoranthene CAS#:207-08-9	N.D.	0.2 mg/kg
苯并(j)荧蒽 Benzo(j)fluoranthene CAS#:205-82-3	N.D.	0.2 mg/kg
苯并(a)芘 Benzo(a)pyrene CAS#:50-32-8	N.D.	0.2 mg/kg
苯并(e)芘 Benzo(e)pyrene CAS#:192-97-2	N.D.	0.2 mg/kg
二苯并(a,h)蒽 Dibenzo(a,h)anthracene CAS#:53-70-3	N.D.	0.2 mg/kg
苯并(g,h,i)芘 Benzo(g,h,i)perylene CAS#:191-24-2	N.D.	0.2 mg/kg
茚并(1,2,3-cd)芘 Indenol(1,2,3-cd)pyrene CAS#:193-39-5	N.D.	0.2 mg/kg

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测试项目 Tested Item(s)	结果 Result 001	方法检出限 MDL
多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)		
菲,葱,荧葱,芘总量 Sum (Phenanthrene, Anthracene, Fluoranthene, Pyrene)	N.D.	/
15 PAHs 总量 Sum 15 PAHs	N.D.	/

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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)芘 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

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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	
*红磷 Redphosphorus CAS#: /	N.D.	500 mg/kg

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样品/部位描述 Sample/Part Description

序号	CTI 样品 ID	描述
No.	CTI Sample ID	Description
1	001	黑色固体 Black solid

备注: 对于检测铅, 镉, 汞, 砷, 铍, 锑之样品已消解完全。

-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%

-*1=表中列出的是发现适合于这个分析的典型可用的校准同类物的一个例子。

-阴性表示不含有聚氯乙烯(PVC)

客户样品多信息说明: 供给不同客户, 会有不同的型号/名称叫法。

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Arsenic, Beryllium, Antimony.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

-Negative = Not contained Polyvinyl Chloride (PVC)

-*1=Table is an example list of typically available calibration congeners that have been found suitable for this analysis.

Information Statement: Different Part No. or sample name with different buyer.

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。

“*”表示该项目/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 item(s)/method(s) is (are) not in CNAS accreditation scope.

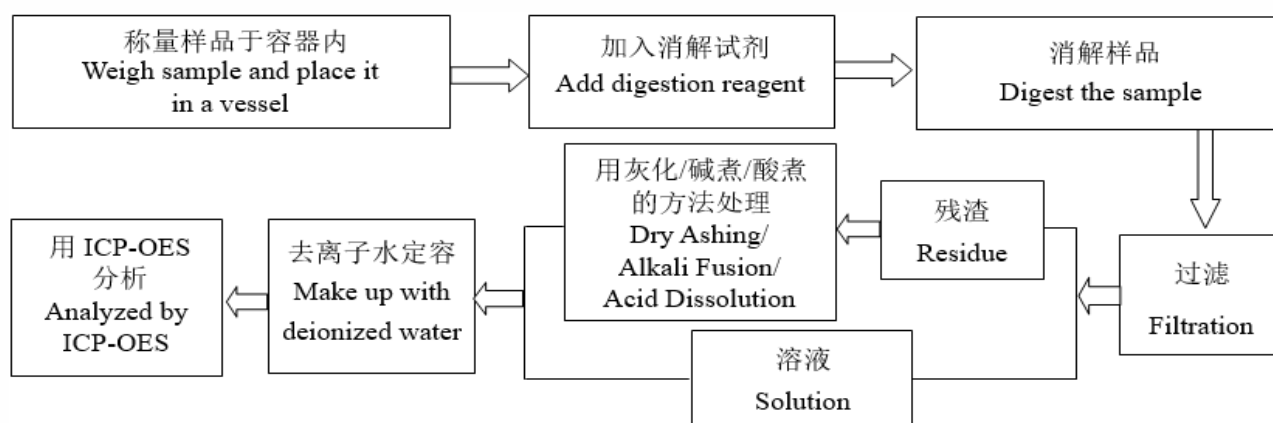
检测报告 Test Report

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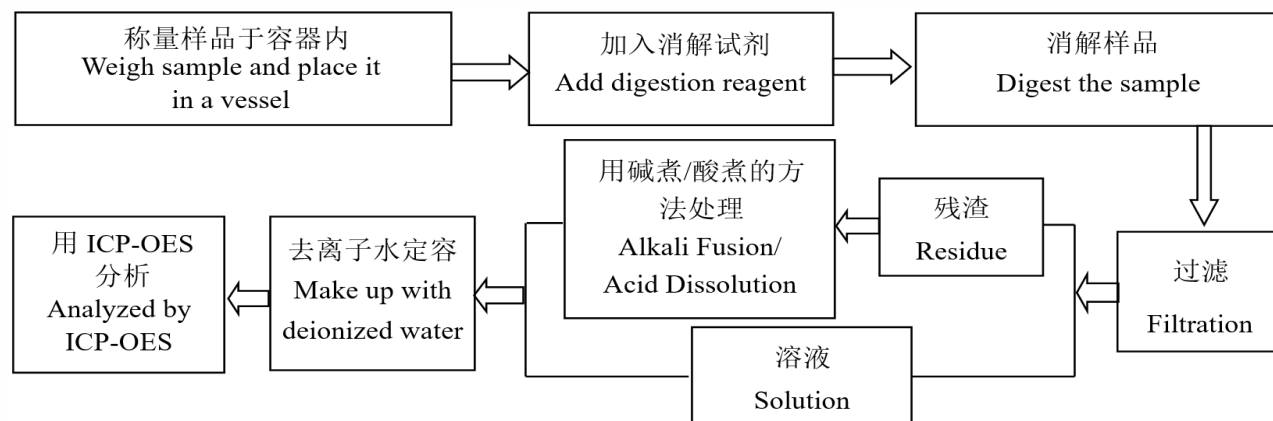
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检测流程 Test Process

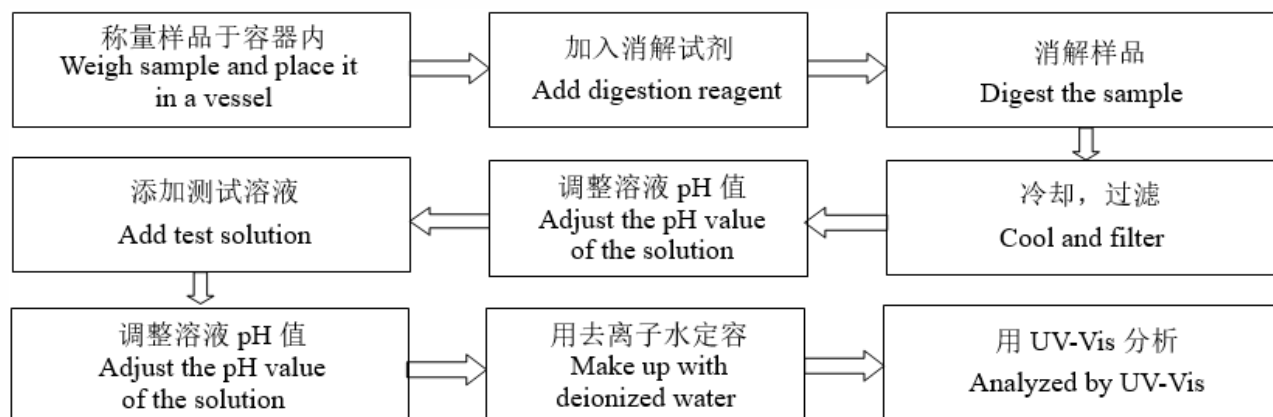
1. 铅 Lead (Pb), 镉 Cadmium (Cd), 铬 Chromium (Cr)



2. 汞 Mercury (Hg)



3. 六价铬 Hexavalent Chromium (Cr(VI))

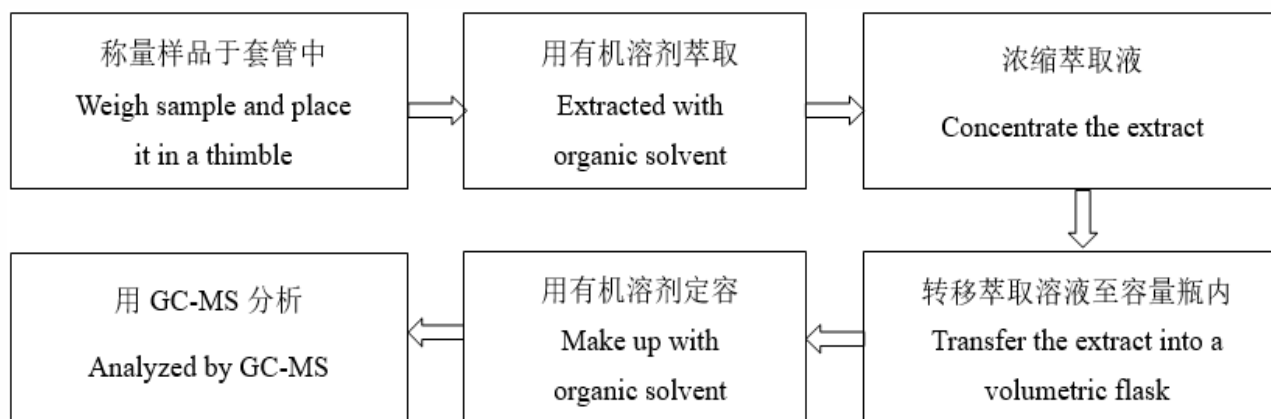


检测报告 Test Report

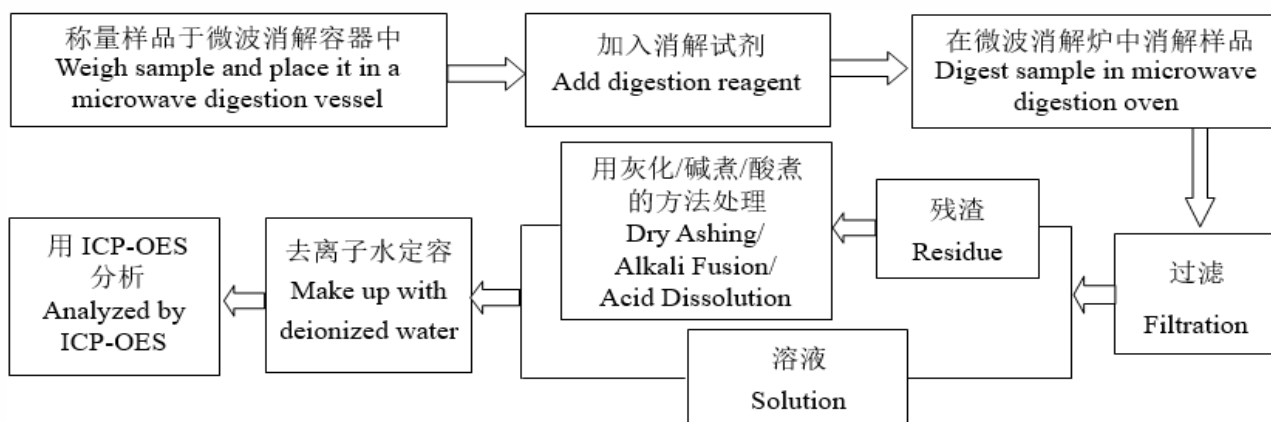
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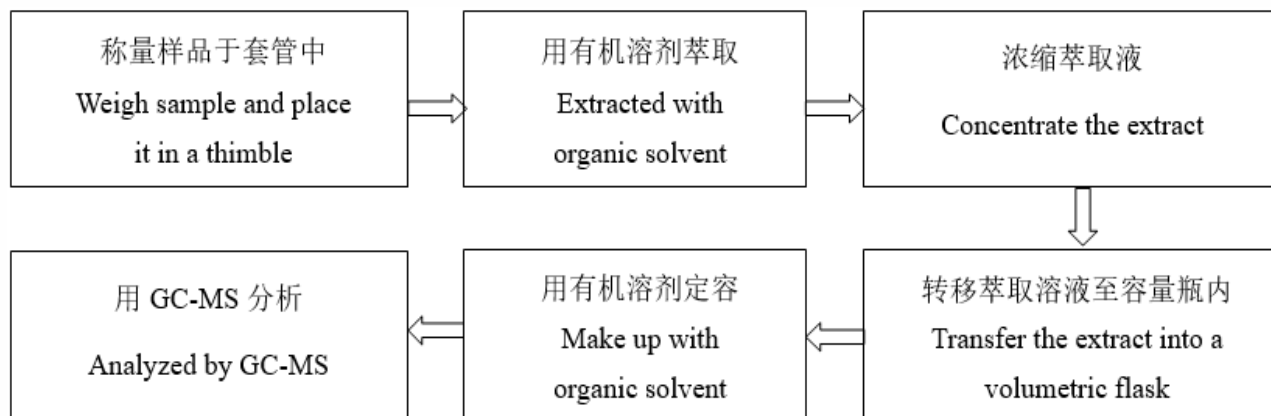
4. 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs), 多溴联苯 Polybrominated Biphenyls (PBBs)



5. 砷 Arsenic(As), 铍 Beryllium(Be), 锑 Antimony(Sb)



6. 六溴环十二烷 Hexabromocyclododecane (HBCDD)

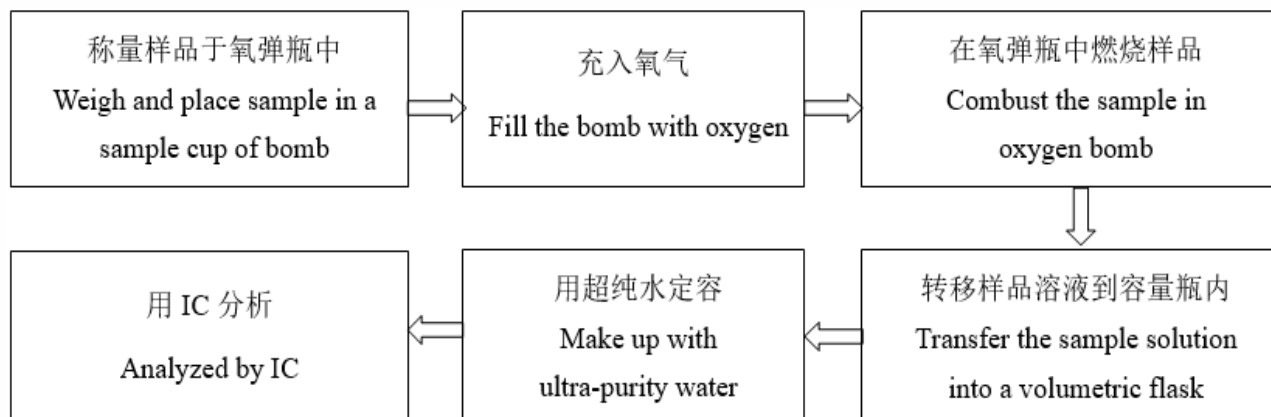


检测报告 Test Report

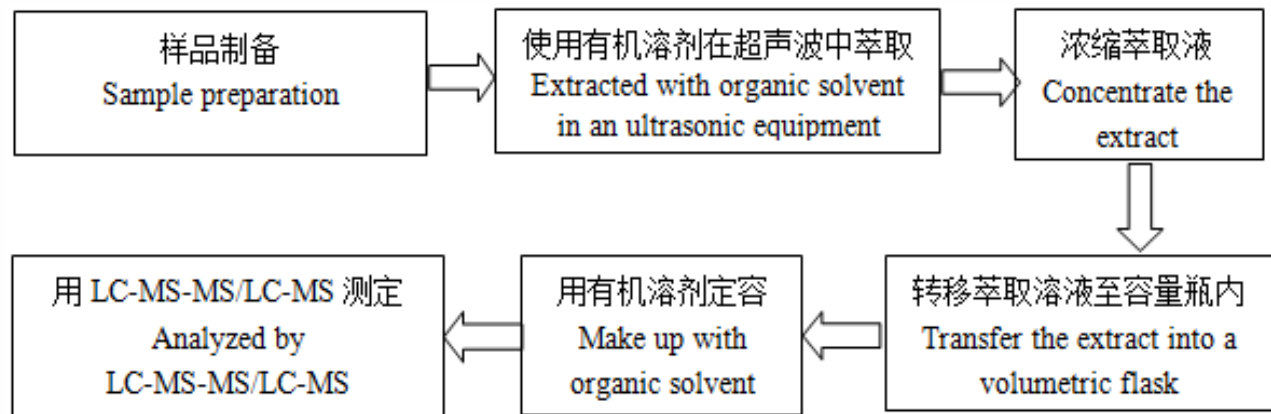
报告编号 A2230164929101001E
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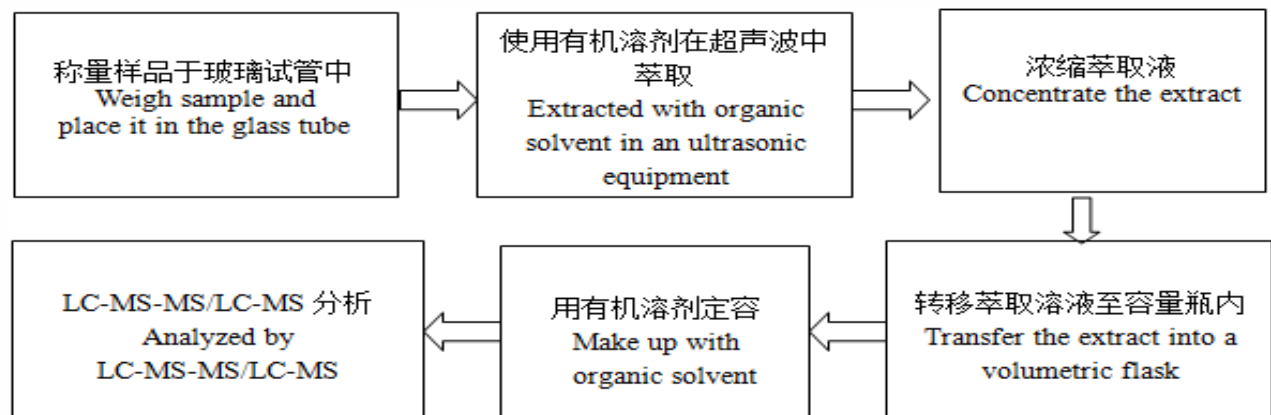
7. 氟 Fluorine (F), 氯 Chlorine (Cl), 溴 Bromine (Br), 碘 Iodine (I)



8. 全氟辛烷磺酸 (PFOS)PerfluorooctaneSulfonates(PFOS), 全氟辛酸 (PFOA)Perfluorooctanoic Acid(PFOA)



9. 四溴双酚 A Tetrabromobisphenol A (TBBP-A)

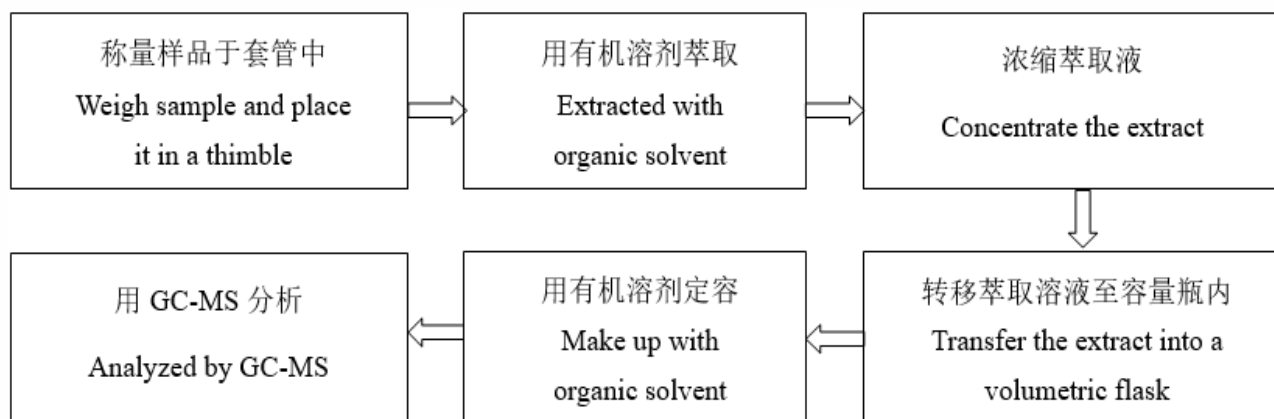


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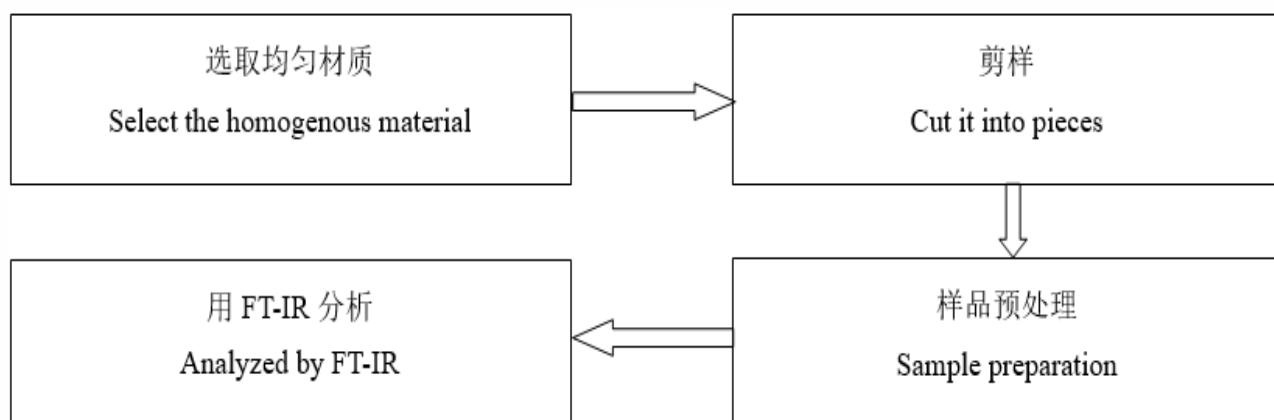
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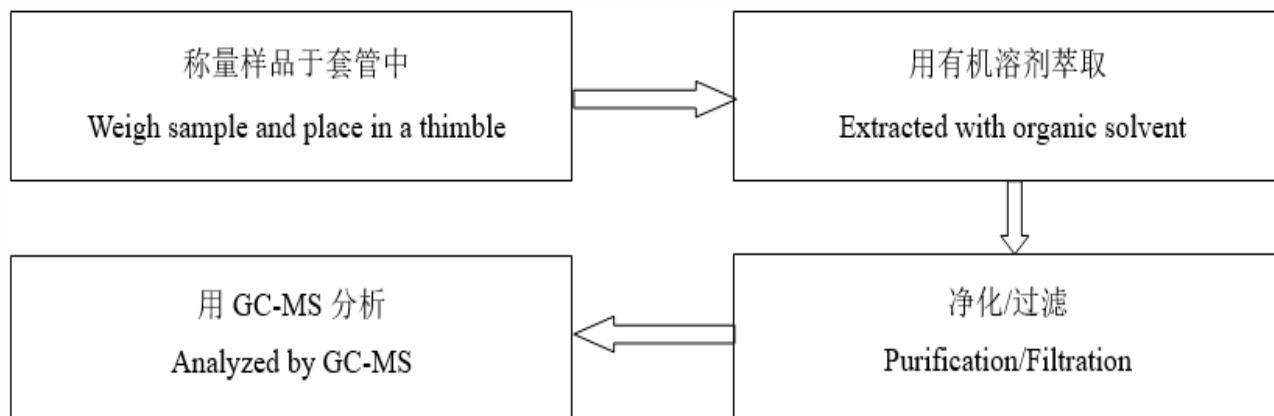
10. 邻苯二甲酸酯 Phthalates



11. 聚氯乙烯 Polyvinyl Chloride (PVC)



12. 多环芳烃 Polycyclic Aromatic Hydrocarbons (PAHs)

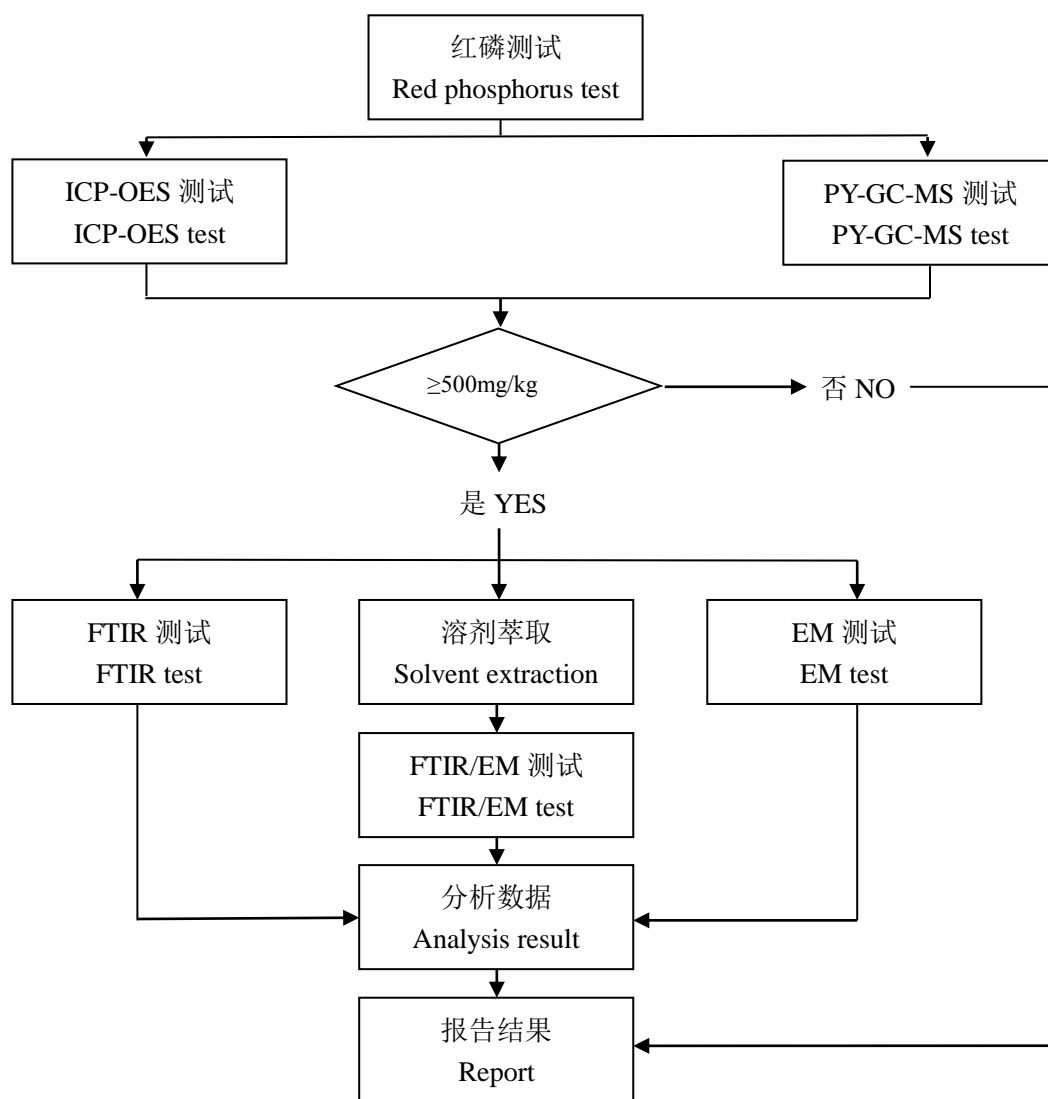


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13. 红磷 Red phosphorus



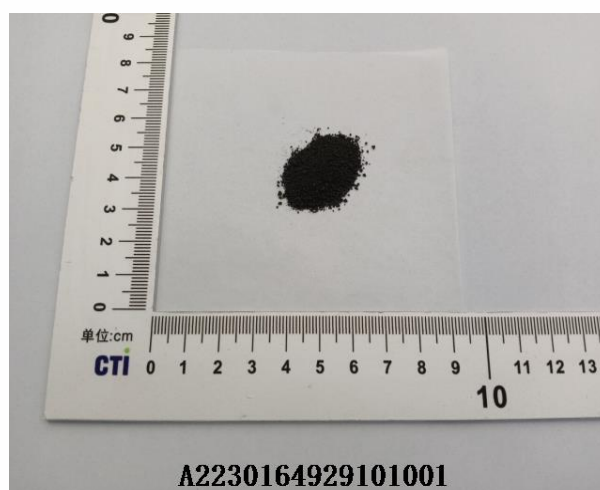
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样品图片

Photo(s) of the sample(s)



声明 Statement:

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*** 报告结束 ***

*** End of Report ***