

Test Report
检测报告

No.: CANEC25014631208

Date: Jul 01, 2025

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日期: 2025 年 07 月 01 日 页码 1 of 41

Client Name:

ADVANCED ASSEMBLY MATERIALS CHINA LIMITED

客户名称:

先进半导体材料(深圳)有限公司

Client Address:

BLOCK 6101-6301,10/1F, 12-14, 15/2-3, FUQIAO 2ND INDUSTRIAL ESTATE,
QIAOTOU COMMUNITY, FUHAI, BAO'AN DISTRICT, SHENZHEN CITY,
GUANGDONG PROVINCE, P.R. CHINA

客户地址:

中国广东省深圳市宝安区福海街道桥头社区富桥二区厂房 6101-6301、10 栋 1 楼、
12-14 栋、15 栋 2-3 楼

Sample Name:

A194/C194 Cu ALLOY

样品名称:

A194/C194 Cu ALLOY

Manufacturing Date:

28-May-25

制造日期:

28-May-25

The above sample(s) and information were provided by the client.

以上样品及信息由客户提供。

SGS Job No.:

SZP25-030830

SGS 工作编号:

SZP25-030830

Sample Receiving Date:

Jun 19, 2025

样品接收时间:

2025 年 06 月 19 日

Testing Period:

Jun 19, 2025 ~ Jun 25, 2025

检测周期:

2025 年 06 月 19 日 ~ 2025 年 06 月 25 日

Test Requested:

Select test(s) as requested by the client.

检测要求:

根据客户要求检测

Test Method(s):

Please refer to next page(s).

检测方法:

见后续页。

Test Result(s):

Please refer to next page(s).

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

通标标准技术服务有限公司广州分公司

授权签名

Allie Chen

Allie Chen 陈江梨

Approved Signatory

批准签署人

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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Technical Laboratory

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检测结果:

见后续页。

| Test Requirement 检测要求 | Conclusion 结论 |
|---|----------------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) 欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP) | Pass 符合 |
| Tetrabromobisphenol A (TBBP-A) 四溴双酚 A (TBBP-A) | See Results 见检测结果 |
| Alkanes C14-C17, chloro (medium- chain chlorinated paraffins) (MCCPs) 中链氯化石蜡(C14-C17) (MCCPs) | See Results 见检测结果 |
| Element(s) 元素 | See Results 见检测结果 |
| Halogen 卤素 | See Results 见检测结果 |
| Hexabromocyclododecane (HBCDD) 六溴环十二烷(HBCDD) | See Results 见检测结果 |
| Organic-Tin compounds 有机锡化合物 | See Results 见检测结果 |
| Polychlorinated Terphenyls (PCTs) 多氯三联苯 (PCTs) | See Results 见检测结果 |
| Polyvinyl Chloride (PVC) 聚氯乙烯(PVC) | See Results 见检测结果 |
| short chain-chlorinated paraffins (SCCPs) 短链氯化石蜡(SCCPs) | See Results 见检测结果 |
| Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctane sulfonic acid (PFOS) and its derivatives 全氟辛酸(PFOA)及其盐和全氟辛酸磺酸(PFOS)及其衍生物 | See Results 见检测结果 |
| Phthalates 邻苯二甲酸酯 | See Results 见检测结果 |
| Polychlorinated Biphenyls (PCBs) 多氯联苯(PCBs) | See Results 见检测结果 |
| Polychlorinated Naphthalenes (PCNs) 多氯萘(PCNs) | See Results 见检测结果 |

Test Result(s):

检测结果:

Test Part Description:

检测部件外观描述:

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| SN ID 样品序号 | Sample No. 样品编号 | SGS Sample ID SGS 样品 ID | Description 样品描述 |
|---------------|--------------------|----------------------------|--------------------------------------|
| SN1 | A8 | CAN25-0146312-0001.C008 | Copper-colored metal sheet 红铜色金属片 |

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检出限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

| Test Item(s) 检测项目 | Limit 限值 | Unit(s) 单位 | MDL | A8 |
|---|-------------|--------------------|------|----|
| Lead (Pb) / 铅 (Pb) | 1000 | mg/kg | 2 | 14 |
| Mercury (Hg) / 汞 (Hg) | 1000 | mg/kg | 2 | ND |
| Cadmium (Cd) / 镉 (Cd) | 100 | mg/kg | 2 | ND |
| Hexavalent Chromium (Cr(VI)) [▼] / 六价铬 (Cr(VI)) [▼] | - | µg/cm ² | 0.10 | ND |
| Polybromobiphenyl (PBB) / 多溴联苯之和 (PBB) | 1000 | mg/kg | - | ND |
| Monobrominated biphenyl (MonoBB) / 一溴联苯 (MonoBB) | - | mg/kg | 5 | ND |
| Dibrominated biphenyl (DiBB) / 二溴联苯 (DiBB) | - | mg/kg | 5 | ND |
| Tribrominated biphenyl (TriBB) / 三溴联苯 (TriBB) | - | mg/kg | 5 | ND |



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| Test Item(s) 检测项目 | Limit 限值 | Unit(s) 单位 | MDL | A8 |
|--|-------------|---------------|-----|----|
| Tetrabrominated biphenyl (TetraBB) / 四溴联苯 (TetraBB) | - | mg/kg | 5 | ND |
| Pentabrominated biphenyl (PentaBB) / 五溴联苯 (PentaBB) | - | mg/kg | 5 | ND |
| Hexabrominated biphenyl (HexaBB) / 六溴联苯 (HexaBB) | - | mg/kg | 5 | ND |
| Heptabrominated biphenyl (HeptaBB) / 七溴联苯 (HeptaBB) | - | mg/kg | 5 | ND |
| Octabrominated biphenyl (OctaBB) / 八溴联苯 (OctaBB) | - | mg/kg | 5 | ND |
| Nonabrominated biphenyl (NonaBB) / 九溴联苯 (NonaBB) | - | mg/kg | 5 | ND |
| Decabrominated biphenyl (DecaBB) / 十溴联苯 (DecaBB) | - | mg/kg | 5 | ND |
| Polybromodiphenyl ether (PBDE) / 多溴二苯醚之和 (PBDE) | 1000 | mg/kg | - | ND |
| Monobrominated diphenyl ether (MonoBDE) / 一溴二苯醚 (MonoBDE) | - | mg/kg | 5 | ND |
| Dibrominated diphenyl ether (DiBDE) / 二溴二苯醚 (DiBDE) | - | mg/kg | 5 | ND |
| Tribrominated diphenyl ether (TriBDE) / 三溴二苯醚 (TriBDE) | - | mg/kg | 5 | ND |
| Tetrabrominated diphenyl ether (TetraBDE) / 四溴二苯醚 (TetraBDE) | - | mg/kg | 5 | ND |
| Pentabrominated diphenyl ether (PentaBDE) / 五溴二苯醚 (PentaBDE) | - | mg/kg | 5 | ND |
| Hexabrominated diphenyl ether (HexaBDE) / 六溴二苯醚 (HexaBDE) | - | mg/kg | 5 | ND |
| Heptabrominated diphenyl ether (HeptaBDE) / 七溴二苯醚 (HeptaBDE) | - | mg/kg | 5 | ND |
| Octabrominated diphenyl ether (OctaBDE) / 八溴二苯醚 (OctaBDE) | - | mg/kg | 5 | ND |
| Nonabrominated diphenyl ether (NonaBDE) / 九溴二苯醚 (NonaBDE) | - | mg/kg | 5 | ND |
| Decabrominated diphenyl ether (DecaBDE) / 十溴二苯醚 (DecaBDE) | - | mg/kg | 5 | ND |
| Bis(2-ethylhexyl) phthalate (DEHP) / 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 1000 | mg/kg | 50 | ND |
| Butyl benzyl phthalate (BBP) / 邻苯二甲酸丁苄酯 (BBP) | 1000 | mg/kg | 50 | ND |
| Dibutyl phthalate (DBP) / 邻苯二甲酸二丁酯 (DBP) | 1000 | mg/kg | 50 | ND |



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| Test Item(s) 检测项目 | Limit 限值 | Unit(s) 单位 | MDL | A8 |
|--|-------------|---------------|-----|----|
| Diisobutyl phthalate (DIBP) / 邻苯二甲酸二异丁酯 (DIBP) | 1000 | mg/kg | 50 | ND |

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13 \mu\text{g}/\text{cm}^2$. The sample coating is considered to contain Cr(VI).
b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than $0.10 \mu\text{g}/\text{cm}^2$). The coating is considered a non-Cr(VI) based coating.
c. The result between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

备注:

- (1) 最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) IEC 62321系列等同于 EN 62321系列。
- (3) ▼ = a. 当六价铬的浓度高于 $0.13 \mu\text{g}/\text{cm}^2$ 时, 样品为阳性, 即含有六价铬;
b. 当六价铬的浓度为ND (低于 $0.10 \mu\text{g}/\text{cm}^2$) 时, 样品为阴性, 即未检测到六价铬;
c. 当六价铬的浓度介于 $0.10 \mu\text{g}/\text{cm}^2$ 与 $0.13 \mu\text{g}/\text{cm}^2$ 之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

Tetrabromobisphenol A (TBBP-A)**四溴双酚 A (TBBP-A)**

Test Method: With reference to RSTS E&E-121, analysis was performed by GC-MS or LC-MS or LC-MS/MS.

检测方法: 参考 RSTS E&E-121, 采用 GC-MS 或 LC-MS 或 LC-MS/MS 进行分析。

| Test Item(s) 检测项目 | CAS No. | Unit(s) 单位 | MDL | A8 |
|--|---------|---------------|-----|----|
| Tetrabromobisphenol A(TBBP-A) / 四溴双酚 A(TBBP-A) | 79-94-7 | mg/kg | 5 | ND |

Alkanes C14-C17, chloro (medium- chain chlorinated paraffins) (MCCPs)**中链氯化石蜡(C14-C17) (MCCPs)**

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Test Method: With reference to ISO 18219-2:2021, analysis was performed by GC-NCI-MS.
检测方法: 参考 ISO 18219-2:2021, 采用 GC-NCI-MS 进行分析。

| Test Item(s) 检测项目 | CAS No. | Unit(s) 单位 | MDL | A8 |
|---|--------------------------------------|---------------|-----|----|
| Alkanes C ₁₄ -C ₁₇ , chloro (medium- chain chlorinated paraffins) (MCCPs) / 中链氯化石蜡(C ₁₄ -C ₁₇) (MCCPs) | 85535-85-9 and others 85535-85-9 和其它 | mg/kg | 50 | ND |

Element(s)**元素**

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-MS.
检测方法: 参考 US EPA 3052:1996, 采用 ICP-MS 进行分析。

| Test Item(s) 检测项目 | Unit(s) 单位 | MDL | A8 |
|--|---------------|-----|----|
| Antimony(Sb) / 锑(Sb) | mg/kg | 2 | ND |
| Arsenic(As) / 砷(As) | mg/kg | 2 | ND |
| Beryllium(Be) / 铍(Be) | mg/kg | 2 | ND |
| Antimony Trioxide(Sb ₂ O ₃) / 三氧化二锑 | mg/kg | 2 | ND |

Halogen**卤素**

Test Method: With reference to EN 14582:2016, analysis was performed by IC.
检测方法: 参考 EN 14582:2016, 采用 IC 进行分析。

| Test Item(s) 检测项目 | Unit(s) 单位 | MDL | A8 |
|-----------------------|---------------|-----|----|
| Fluorine(F) / 氟 (F) | mg/kg | 20 | ND |
| Chlorine(Cl) / 氯 (Cl) | mg/kg | 50 | ND |
| Bromine(Br) / 溴 (Br) | mg/kg | 50 | ND |
| Iodine(I) / 碘 (I) | mg/kg | 50 | ND |

Hexabromocyclododecane (HBCDD)**六溴环十二烷(HBCDD)**

Test Method: With reference to IEC 62321-9:2021, analysis was performed by GC-MS.
检测方法: 参考 IEC 62321-9:2021, 采用 GC-MS 进行分析。

| Test Item(s) 检测项目 | CAS No. | Unit(s) 单位 | MDL | A8 |
|---|---|---------------|-----|----|
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) / 六溴 | 134237-50-6 / 134237-51-7 / 134237-52-8 | mg/kg | 5 | ND |



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Test Report

检测报告

No.: CANEC25014631208

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| Test Item(s) 检测项目 | CAS No. | Unit(s) 单位 | MDL | A8 |
|--|---------------------------|---------------|-----|----|
| 环十二烷(HBCDD)及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD) | /25637-99-4 /3194-55-6 | | | |

Organic-Tin compounds**有机锡化合物****Test Method:** With reference to ISO 17353:2004, analysis was performed by GC-MS.**检测方法:** 参考 ISO 17353:2004, 采用 GC-MS 进行分析。

| Test Item(s) 检测项目 | Unit(s) 单位 | MDL | A8 |
|--|---------------|------|----|
| Dibutyl tin(DBT) / 二丁基锡(DBT) | mg/kg | 0.02 | ND |
| Tributyl tin(TBT) / 三丁基锡(TBT) | mg/kg | 0.02 | ND |
| Diocetyl tin(DOT) / 二辛基锡(DOT) | mg/kg | 0.02 | ND |
| Tri-n-propyltin(TPT) / 三丙基锡(TPT) | mg/kg | 0.02 | ND |
| Bis(tributyltin) oxide (TBTO) ◆ / 三丁基锡氧化物(TBTO)◆ | mg/kg | 0.02 | ND |

Notes:

(1)◆ = TBTO is back calculated based on the worst-case scenario of TBT.

备注:

(1) ◆ 三丁基锡氧化物(TBTO): 由三丁基锡(TBT)的最差含量换算得之。

Polychlorinated Terphenyls (PCTs)**多氯三联苯(PCTs)****Test Method:** With reference to US EPA 3550C:2007, analysis was performed by GC-ECD/GC-MS.**检测方法:** 参考 US EPA 3550C:2007, 采用 GC-ECD/GC-MS 进行分析。

| Test Item(s) 检测项目 | CAS No. | Unit(s) 单位 | MDL | A8 |
|-----------------------------|------------|---------------|-----|----|
| Aroclor 5432 / Aroclor 5432 | 63496-31-1 | mg/kg | 0.5 | ND |
| Aroclor 5442 / Aroclor 5442 | 12642-23-8 | mg/kg | 0.5 | ND |
| Aroclor 5460 / Aroclor 5460 | 11126-42-4 | mg/kg | 0.5 | ND |

Polyvinyl Chloride (PVC)**聚氯乙烯(PVC)****Test Method:** With reference to ASTM E1252-98 (2021) and Flame test (Beilstein test), analysis was performed by FTIR.

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检测方法: 参考 ASTM E1252-98 (2021)和焰色反应(Beilsteinf 反应), 采用 FTIR 进行分析。

| Test Item(s) 检测项目 | CAS No. | A8 |
|---------------------------------------|-----------|-------------|
| Polyvinyl chloride (PVC) / 聚氯乙烯 (PVC) | 9002-86-2 | Negative 阴性 |

short chain-chlorinated paraffins (SCCPs)**短链氯化石蜡(SCCPs)****Test Method:** With reference to ISO 18219-1:2021, analysis was performed by GC-NCI-MS.

检测方法: 参考 ISO 18219-1:2021, 采用 GC-NCI-MS 进行分析。

| Test Item(s) 检测项目 | CAS No. | Unit(s) 单位 | MDL | A8 |
|---|------------|---------------|-----|----|
| Alkanes C ₁₀ -C ₁₃ , chloro (short chain-chlorinated paraffins) (SCCPs) / 短链氯化石蜡(SCCP)(C ₁₀ -C ₁₃) | 85535-84-8 | mg/kg | 50 | ND |

Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctane sulfonic acid (PFOS) and its derivatives**全氟辛酸(PFOA)及其盐和全氟辛烷磺酸(PFOS)及其衍生物****Test Method:** Modified EN 17681-1:2022, analysis was performed by LC-MS or LC-MS/MS.

检测方法: 优化的 EN 17681-1:2022, 采用 LC-MS 或 LC-MS/MS 进行分析。

| Test Item(s) 检测项目 | CAS No. | Unit(s) 单位 | MDL | A8 |
|--|------------|---------------|-------|----|
| PFOS, its salts and related compounds PFOS 及其盐和相关物质 | | | | |
| Perfluorooctane sulfonic acid (PFOS), its salts^ / 全氟辛烷磺酸 (PFOS), 及其盐^ | 1763-23-1 | mg/kg | 0.010 | ND |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) / N-乙基全氟辛烷磺酰胺 (N-EtFOSA) | 4151-50-2 | mg/kg | 0.010 | ND |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) / N-甲基全氟辛烷磺酰胺 (N-MeFOSA) | 31506-32-8 | mg/kg | 0.010 | ND |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) / 2- (N-乙基全氟辛基磺酰胺)乙醇 (N-EtFOSE) | 1691-99-2 | mg/kg | 0.010 | ND |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) / 2- (N-甲基全氟辛基磺酰胺)乙醇 (N-MeFOSE) | 24448-09-7 | mg/kg | 0.010 | ND |

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|---|-----------|---------------|-------|----|
| Perfluorooctane Sulfonamide (PFOSA), its salts^ / 全氟辛基磺酰胺 (PFOSA), 及其盐^ | 754-91-6 | mg/kg | 0.010 | ND |
| Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts^ / N-(全氟-1-辛烷磺酰基)甘氨酸 (FOSAA), 及其盐^ | 2806-24-8 | mg/kg | 0.010 | ND |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts^ / N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA), 及其盐^ | 2355-31-9 | mg/kg | 0.010 | ND |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts^ / N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-EtFOSAA), 及其盐^ | 2991-50-6 | mg/kg | 0.010 | ND |
| Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives / 全氟辛烷磺酸 (PFOS)及其衍生物 | - | mg/kg | - | ND |
| PFOA, its salts PFOA, 及其盐 | | | | |
| Perfluorooctanoic acid (PFOA), its salts^ / 全氟辛酸 (PFOA), 及其盐^ | 335-67-1 | mg/kg | 0.010 | ND |

Notes:

1. ^=Substances refer to its salts/derivative listed in below table.

| Substance Name | CAS No. |
|--|-------------|
| PFOS, its salts & derivatives | |
| Perfluorooctane sulfonic acid (PFOS) | 1763-23-1 |
| Potassium Perfluorooctanesulfonate (PFOS-K) | 2795-39-3 |
| Perfluorooctanesulfonic acid, lithium salt (PFOS-Li) | 29457-72-5 |
| Sodium perfluorooctanesulfonate (PFOS-Na) | 4021-47-0 |
| Ammonium perfluorooctanesulfonate (PFOS-NH ₄) | 29081-56-9 |
| Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂) | 70225-14-8 |
| Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄) | 56773-42-3 |
| N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂) | 251099-16-8 |
| TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄) | 111873-33-7 |
| Perfluorooctane Sulfonyl fluoride (PFOS-F) | 307-35-7 |
| Magnesium bis(heptafluorooctanesulphonate) (PFOS-Mg) | 91036-71-4 |
| Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate | 71463-74-6 |



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| Perfluorooctanesulfonate | 45298-90-6 |
| Triethylammonium perfluorooctane sulfonate (PFOS-N(C ₂ H ₅) ₃) | 54439-46-2 |
| Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄) | 56773-44-5 |
| N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁)) | 56773-56-9 |
| N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₄ H ₉) ₃ (CH ₃)) | 124472-68-0 |
| Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1) | 213740-80-8 |
| Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate | 258341-99-0 |
| 1-Hexadecylpyridinium perfluoro-1-octanesulfonate | 334529-63-4 |
| N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate | 773895-92-4 |
| Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C ₄ H ₉) ₄) | 2185049-59-4 |
| Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N) | 2205029-08-7 |
| heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂) | 1203998-97-3 |
| Perfluorooctane sulfonic anhydride (PFOSAN) | 423-92-7 |
| FOSAA, its salts | |
| Perfluorooctane sulfonamidoacetic Acid (FOSAA) | 2806-24-8 |
| N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion)) | 909405-47-6 |
| N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K) | 75260-69-4 |
| N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na) | 115716-87-5 |
| N-MeFOSAA, its salts | |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA) | 2355-31-9 |
| 2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion)) | 909405-48-7 |
| Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K) | 70281-93-5 |
| N-EtFOSAA, its salts | |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) | 2991-50-6 |
| Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K) | 2991-51-7 |
| 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion)) | 909405-49-8 |
| Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH ₄) | 2991-52-8 |
| Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) | 3871-50-9 |
| PFOSA, its salts | |
| Perfluorooctane Sulfonamide (PFOSA) | 754-91-6 |
| Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li) | 76752-79-9 |
| Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) | 76752-78-8 |
| Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K) | 76752-70-0 |
| Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄) | 76752-72-2 |



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| Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOA-C ₆ H ₁₅ N) | 76752-82-4 |
| PFOA, its salts & derivatives | |
| Perfluorooctanoic acid (PFOA) | 335-67-1 |
| Sodium perfluorooctanoate (PFOA-Na) | 335-95-5 |
| Potassium perfluorooctanoate (PFOA-K) | 2395-00-8 |
| Silver perfluorooctanoate (PFOA-Ag) | 335-93-3 |
| Perfluorooctanoyl fluoride (PFOA-F) | 335-66-0 |
| Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 |
| Lithium perfluorooctanoate (PFOA-Li) | 17125-58-5 |
| Cobalt perfluorooctanoate (PFOA-Co) | 35965-01-6 |
| Cesium perfluorooctanoate (PFOA-Cs) | 17125-60-9 |
| Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+)) | 68141-02-6 |
| Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C ₄ H ₁₀ N)) | 423-52-9 |
| Pentadecafluorooctanoate (anion) | 45285-51-6 |
| Perfluorooctanoic Anhydride | 33496-48-9 |
| N,N,N-Triethylethanaminium perfluorooctanoate | 98241-25-9 |
| Perfluorooctanoate N,N,N-Trimethylmethanaminium | 32609-65-7 |
| Tetrapropylammonium perfluorooctanoate | 277749-00-5 |
| Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H ₂ O) ₂) | 98065-31-7 |
| Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N) | 1376936-03-6 |
| Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C ₅ H ₅ N) | 95658-47-2 |
| pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂) | 1514-68-7 |
| N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C ₁₁ H ₂₆ N) | 927835-01-6 |

备注:

1. ^=物质是指附表中列出的盐/衍生物。

| 物质名称 | CAS No. |
|--------------------------|------------|
| PFOS, 及其盐&衍生物 | |
| 全氟辛烷磺酸(PFOS) | 1763-23-1 |
| 全氟辛基磺酸钾(PFOS-K) | 2795-39-3 |
| 全氟辛基磺酸锂(PFOS-Li) | 29457-72-5 |
| 全氟辛基磺酸钠(PFOS-Na) | 4021-47-0 |



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| 全氟辛基磺酸铵(PFOS-NH ₄) | 29081-56-9 |
| 全氟辛基磺酸二乙醇铵(PFOS-NH ₂ (C ₂ H ₄ OH) ₂) | 70225-14-8 |
| 全氟辛基磺酸四乙基铵(PFOS-N(C ₂ H ₅) ₄) | 56773-42-3 |
| 全氟辛基磺酸二癸二甲基铵(PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂) | 251099-16-8 |
| 全氟辛基磺酸四丁基铵(PFOS-N(C ₄ H ₉) ₄) | 111873-33-7 |
| 全氟辛基磺酰氟(PFOS-F) | 307-35-7 |
| 双[十七氟辛烷磺酸]镁(PFOS-Mg) | 91036-71-4 |
| 全氟辛烷磺酸哌啶 | 71463-74-6 |
| 全氟辛烷磺酸盐 | 45298-90-6 |
| 全氟辛烷磺酸三乙基铵(PFOS-N(C ₂ H ₅) ₃) | 54439-46-2 |
| 全氟辛烷磺酸四甲基铵(PFOS-N(CH ₃) ₄) | 56773-44-5 |
| N, N,N-三丙基戊烷-1-七氟辛烷-1-磺酸铵(PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁)) | 56773-56-9 |
| N,N-二丁基-N-甲基丁烷-1-胺十七氟辛烷-1-磺酸酯(PFOS-N(C ₄ H ₉) ₃ (CH ₃)) | 124472-68-0 |
| 双[4-(1,1-二甲基乙基)苯基]-碘鎓与全氟-1-辛烷磺酸的盐(1:1) | 213740-80-8 |
| 全氟-1-辛烷磺酸二苯基(2,4,6-三甲基苯基)脲 | 258341-99-0 |
| 全氟-1-辛烷磺酸 1-十六烷基吡啶鎓 | 334529-63-4 |
| N,N,N-三乙基癸-1-胺十七氟辛烷-1-磺酸盐 | 773895-92-4 |
| 全氟辛烷磺酸四丁基磷 (PFOS-P (C ₄ H ₉) ₄) | 2185049-59-4 |
| 全氟辛基磺酸二乙胺 (PFOS-C ₄ H ₁₁ N) | 2205029-08-7 |
| 全氟辛基磺酸庚基二甲基-[2-(2-甲基丙-2-烯酰氧基)乙基]胺 (PFOS-C ₁₅ H ₃₀ NO ₂) | 1203998-97-3 |
| 全氟辛基磺酸酐(PFOSAN) | 423-92-7 |
| FOSAA, 及其盐 | |
| N-(全氟-1-辛烷磺酰基)甘氨酸(FOSAA) | 2806-24-8 |
| 全氟辛烷磺酰氨基乙酸盐 (FOSAA(anion)) | 909405-47-6 |
| 全氟辛烷磺酰氨基乙酸钾 (FOSAA-K) | 75260-69-4 |



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| | |
|---|-------------|
| 全氟辛烷磺酰氨基乙酸钠 (FOSAA-Na) | 115716-87-5 |
| N-MeFOSAA, 及其盐 | |
| N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA) | 2355-31-9 |
| N-(十七氟辛基磺酰基)-N-甲基甘氨酸盐 (N-Me-FOSAA(anion)) | 909405-48-7 |
| N-(十七氟辛基磺酰基)-N-甲基甘氨酸钾 (N-Me-FOSAA-K) | 70281-93-5 |
| N-EtFOSAA, 及其盐 | |
| N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸(N-EtFOSAA) | 2991-50-6 |
| N-乙基-N-[(十七烷氟辛基)磺酰基]-甘氨酸钾盐 (N-Et-FOSAA-K) | 2991-51-7 |
| N-乙基-N-((十七氟辛基)磺酰基)甘氨酸盐 (N-Et-FOSAA(anion)) | 909405-49-8 |
| N-乙基-N-((十七氟辛基)磺酰基)甘氨酸铵 (N-Et-FOSAA-NH ₄) | 2991-52-8 |
| N-乙基-N-((十七氟辛基)磺酰基)甘氨酸钠 (N-Et-FOSAA-Na) | 3871-50-9 |
| PFOSA, 及其盐 | |
| 全氟辛基磺酰胺(PFOSA) | 754-91-6 |
| 全氟辛基磺酰胺锂盐(1:1)(PFOSA-Li) | 76752-79-9 |
| 全氟辛基磺酰胺钠盐 (1:1) (PFOSA-Na) | 76752-78-8 |
| 全氟辛基磺酰胺钾盐 (1:1) (PFOSA-K) | 76752-70-0 |
| 全氟辛基磺酰胺铵盐 (1:1) (PFOSA-NH ₄) | 76752-72-2 |
| 全氟辛基磺酰胺三乙胺 (PFOSA-C ₆ H ₁₅ N) | 76752-82-4 |
| PFOA, 及其盐&衍生物 | |
| 全氟辛酸(PFOA) | 335-67-1 |
| 全氟辛酸钠(PFOA-Na) | 335-95-5 |
| 全氟辛酸钾(PFOA-K) | 2395-00-8 |
| 全氟辛酸银(PFOA-Ag) | 335-93-3 |
| 全氟辛酰氟(PFOA-F) | 335-66-0 |
| 全氟辛酸铵(APFO) | 3825-26-1 |
| 全氟辛酸锂(PFOA-Li) | 17125-58-5 |



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| | |
|---|--------------|
| 全氟辛酸钴(PFOA-Co) | 35965-01-6 |
| 全氟辛酸铯(PFOA-Cs) | 17125-60-9 |
| 全氟辛酸铬(3+) (PFOA-Cr(3+)) | 68141-02-6 |
| 全氟辛酸-哌嗪(2:1) (PFOA-NH(C ₄ H ₁₀ N)) | 423-52-9 |
| 全氟辛酸盐 | 45285-51-6 |
| 全氟辛酸酐 | 33496-48-9 |
| 全氟辛酸四乙基胺 | 98241-25-9 |
| 全氟辛酸四甲基胺 | 32609-65-7 |
| 全氟辛酸四丙基胺 | 277749-00-5 |
| 全氟辛酸钾水合物 (PFOA-K(H ₂ O) ₂) | 98065-31-7 |
| 全氟辛酸乙胺 (PFOA-C ₂ H ₇ N) | 1376936-03-6 |
| 全氟辛酸吡啶 (PFOA-C ₅ H ₅ N) | 95658-47-2 |
| 全氟辛酸苯基哌嗪 (PFOA-C ₁₀ H ₁₄ N ₂) | 1514-68-7 |
| 全氟辛酸辛基三甲基铵 (PFOA-C ₁₁ H ₂₆ N) | 927835-01-6 |

Phthalates**邻苯二甲酸酯****Test Method:** With reference to IEC 62321-8:2017, analysis was performed by GC-MS.**检测方法:** 参考 IEC 62321-8:2017, 采用 GC-MS 进行分析。

| Test Item(s) 检测项目 | CAS No. | Unit(s) 单位 | MDL | A8 |
|--|---------------------------|---------------|-----|----|
| Dibutyl Phthalate(DBP) / 邻苯二甲酸二丁酯 (DBP) | 84-74-2 | mg/kg | 50 | ND |
| Bis-(2-ethylhexyl) Phthalate(DEHP) / 邻苯二甲酸二(2-乙基己基)酯(DEHP) | 117-81-7 | mg/kg | 50 | ND |
| Benzyl Butyl Phthalate(BBP) / 邻苯二甲酸丁苄酯(BBP) | 85-68-7 | mg/kg | 50 | ND |
| Diisononyl Phthalate (DINP) / 邻苯二甲酸二异壬酯(DINP) | 28553-12-0 /68515-48-0 | mg/kg | 50 | ND |
| Di-n-Octyl Phthalate(DNOP) / 邻苯二甲酸二辛酯(DNOP) | 117-84-0 | mg/kg | 50 | ND |



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|--|---------------------------|---------------|-----|----|
| Diisodecyl Phthalate (DIDP) / 邻苯二甲酸二异癸酯(DIDP) | 26761-40-0 /68515-49-1 | mg/kg | 50 | ND |
| Diisobutyl Phthalate(DIBP) / 邻苯二甲酸二异丁酯(DIBP) | 84-69-5 | mg/kg | 50 | ND |
| Bis(2-methoxyethyl)phthalate(DMEP) / 邻苯二甲酸二(2-甲氧基乙基)酯(DMEP) | 117-82-8 | mg/kg | 50 | ND |
| Di-n-Hexyl Phthalate(DnHP) / 邻苯二甲酸二正己酯(DnHP) | 84-75-3 | mg/kg | 50 | ND |
| Dipentyl Phthalate (DPENP/DnPP) / 邻苯二甲酸二戊酯 (DPENP/ DnPP) | 131-18-0 | mg/kg | 50 | ND |
| Diisopentyl Phthalate(DIPP) / 邻苯二甲酸二异戊酯(DiPP) | 605-50-5 | mg/kg | 50 | ND |
| n-pentyl Isopentyl Phthalate(nPiPP) / 邻苯二甲酸正戊基异戊基酯(nPiPP) | 776297-69-9 | mg/kg | 50 | ND |
| 1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP) / 邻苯二甲酸二 C6-C8 支链烷基酯(DIHP) | 71888-89-6 | mg/kg | 50 | ND |
| 1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters(DHNU) / 邻苯二甲酸二(C7,C9,C11)烷基酯 (DHNU) | 68515-42-4 | mg/kg | 50 | ND |

Polychlorinated Biphenyls (PCBs)**多氯联苯(PCBs)**

Test Method: With reference to US EPA 3550C:2007, analysis was performed by GC-ECD/GC-MS.
检测方法: 参考 US EPA 3550C:2007, 采用 GC-ECD/GC-MS 进行分析。

| Test Item(s) 检测项目 | CAS No. | Unit(s) 单位 | MDL | A8 |
|---|------------|---------------|-----|----|
| 2,4,4'-Trichlorobiphenyl(PCB28) / 2,4,4'-三氯联苯(PCB28) | 7012-37-5 | mg/kg | 0.5 | ND |
| 2,2',5,5'-Tetrachlorobiphenyl(PCB52) / 2,2',5,5'-四氯联苯(PCB52) | 35693-99-3 | mg/kg | 0.5 | ND |
| 2,2',4,5,5'-Pentachlorobiphenyl(PCB101) / 2,2',4,5,5'-五氯联苯(PCB101) | 37680-73-2 | mg/kg | 0.5 | ND |
| 2,3',4,4',5-Pentachlorobiphenyl(PCB118) / 2,3',4,4',5-五氯联苯(PCB118) | 31508-00-6 | mg/kg | 0.5 | ND |
| 2,2',3,4,4',5'-Hexachlorobiphenyl(PCB138) / 2,2',3,4,4',5'-六氯联苯(PCB138) | 35065-28-2 | mg/kg | 0.5 | ND |
| 2,2',4,4',5,5'-Hexachlorobiphenyl(PCB153) / 2,2',4,4',5,5'-六氯联苯(PCB153) | 35065-27-1 | mg/kg | 0.5 | ND |



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|---|------------|---------------|-----|----|
| 2,2',3,4,4',5,5'- Heptachlorobiphenyl(PCB180) / 2,2',3,4,4',5,5'-七氯联苯(PCB180) | 35065-29-3 | mg/kg | 0.5 | ND |

Polychlorinated Naphthalenes (PCNs)**多氯萘(PCNs)****Test Method:** With reference to US EPA 3550C:2007, analysis was performed by GC-ECD/GC-MS.**检测方法:** 参考 US EPA 3550C:2007, 采用 GC-ECD/GC-MS 进行分析。

| Test Item(s) 检测项目 | CAS No. | Unit(s) 单位 | MDL | A8 |
|--|------------|---------------|-----|----|
| 1-Chlorinated Naphthalene / 1-一氯萘 | 90-13-1 | mg/kg | 5 | ND |
| 2-Chlorinated Naphthalene / 2-一氯萘 | 91-58-7 | mg/kg | 5 | ND |
| 1,4-Dichlorinated Naphthalene / 1,4-二氯萘 | 1825-31-6 | mg/kg | 5 | ND |
| 1,5-Dichlorinated Naphthalene / 1,5-二氯萘 | 1825-30-5 | mg/kg | 5 | ND |
| 1,2-Dichlorinated Naphthalene / 1,2-二氯萘 | 2050-69-3 | mg/kg | 5 | ND |
| 1,8-Dichlorinated Naphthalene / 1,8-二氯萘 | 2050-74-0 | mg/kg | 5 | ND |
| 1,2,3-Trichlorinated Naphthalene / 1,2,3-三氯萘 | 50402-52-3 | mg/kg | 5 | ND |
| 1,2,3,4-Tetrachlorinated Naphthalene / 1,2,3,4-四氯萘 | 20020-02-4 | mg/kg | 5 | ND |
| 1,2,3,4,6-Pentachlorinated Naphthalene / 1,2,3,4,6-五氯萘 | 67922-26-3 | mg/kg | 5 | ND |
| Octa-Chlorinated Naphthalene / 八氯萘 | 2234-13-1 | mg/kg | 5 | ND |

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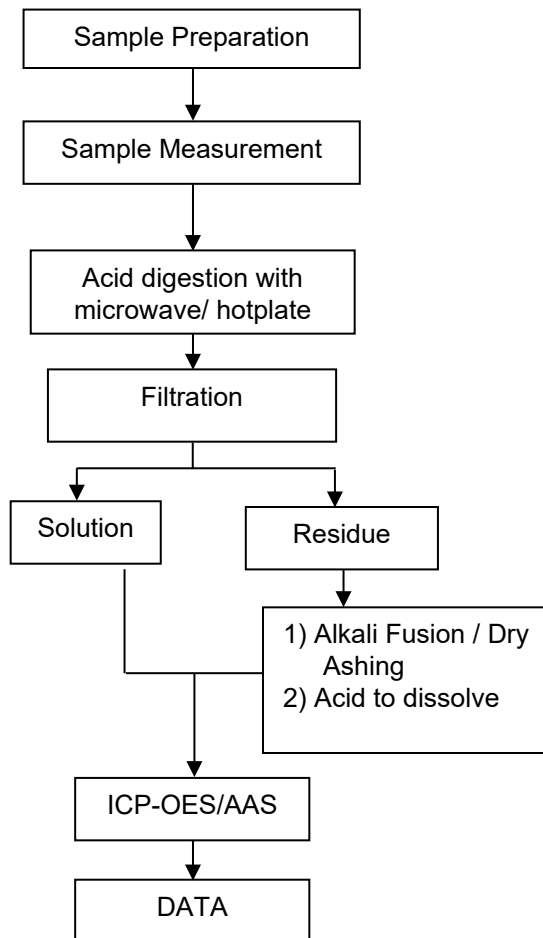
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Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



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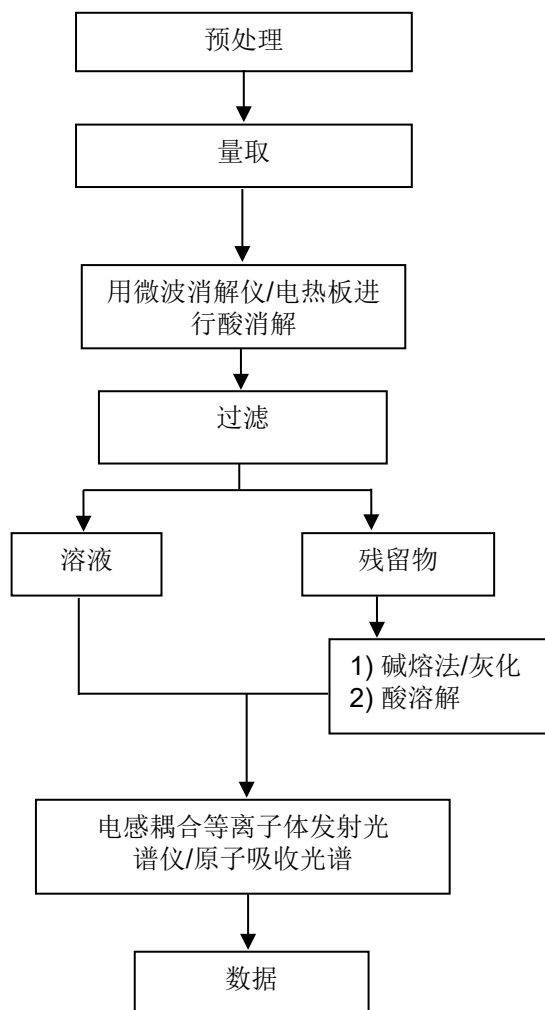
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元素检测流程图

样品按照下述流程被完全消解



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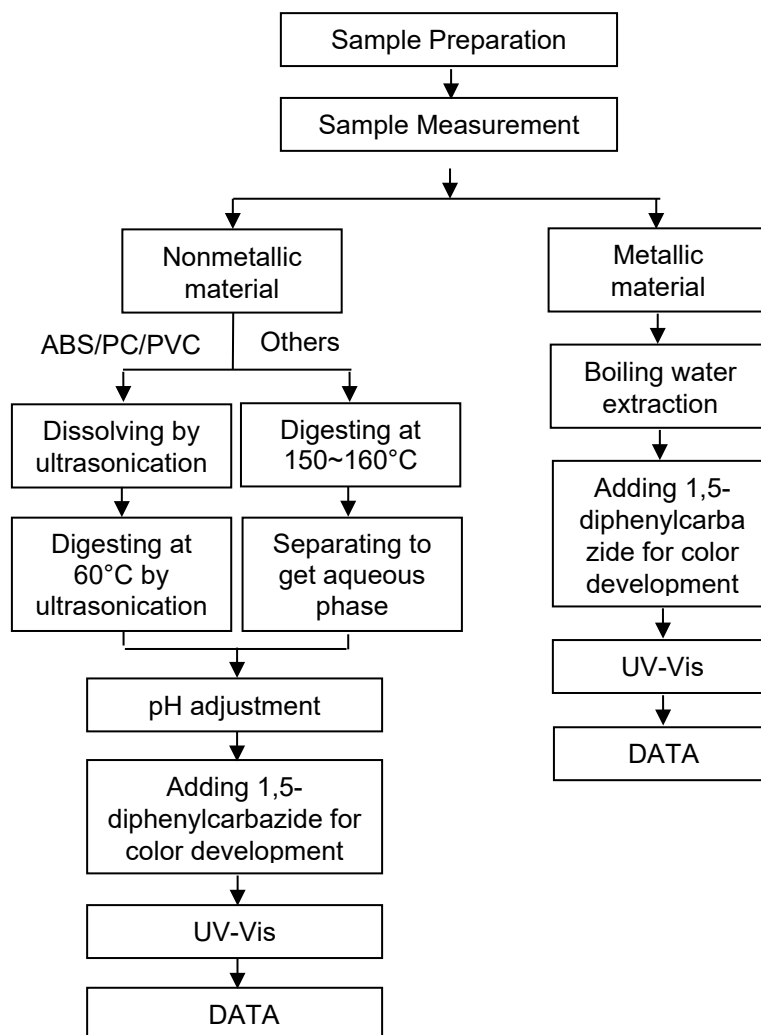
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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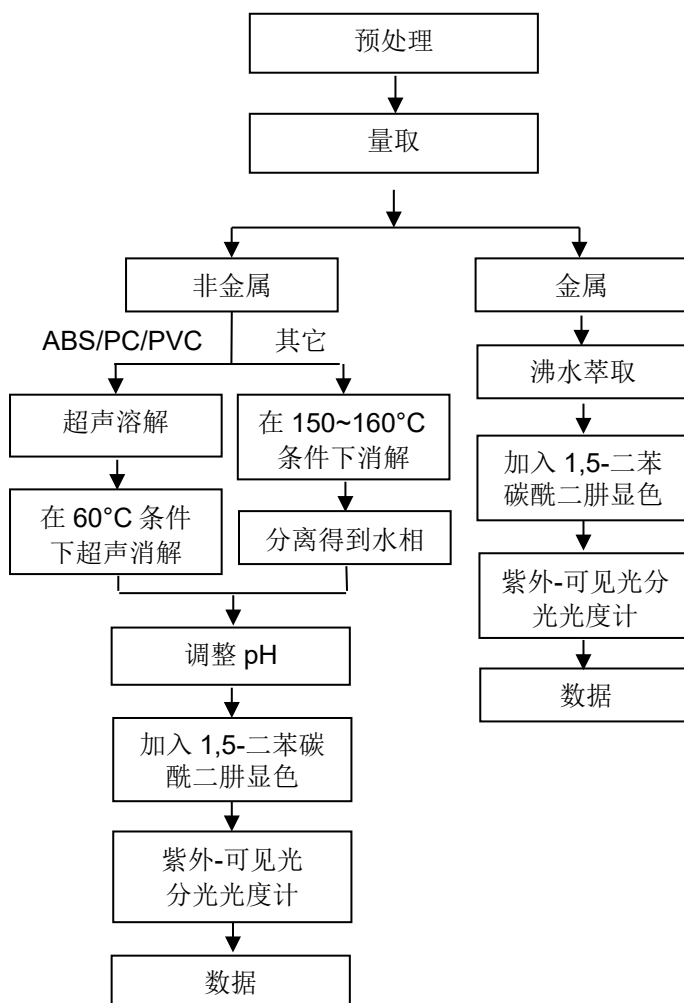
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六价铬检测流程图



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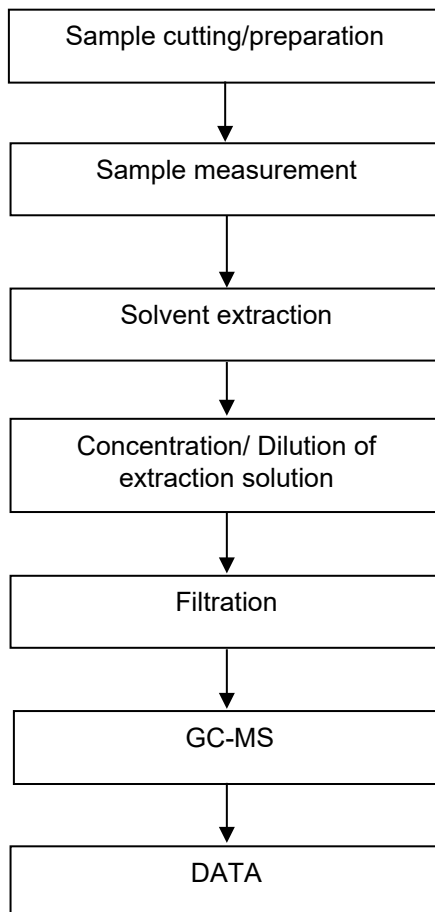
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PBB/PBDE Testing Flow Chart



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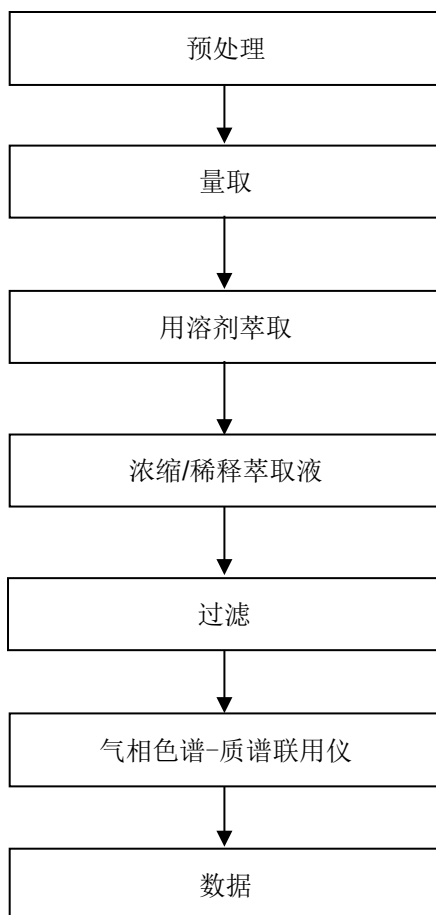
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PBB/PBDE 检测流程图



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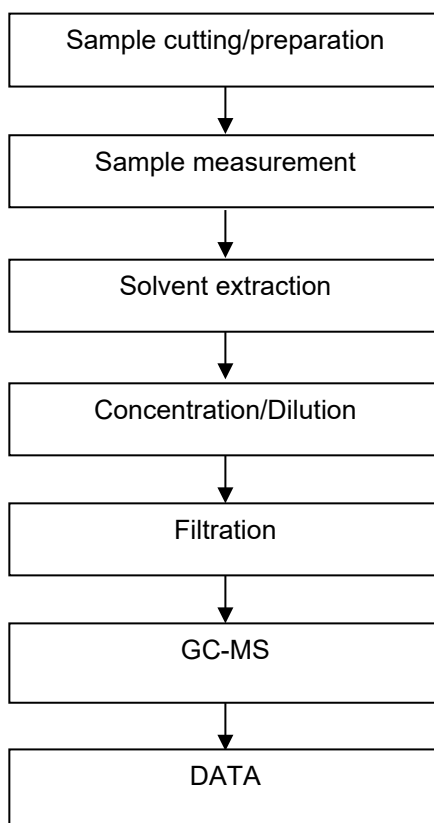
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Phthalates Testing Flow Chart



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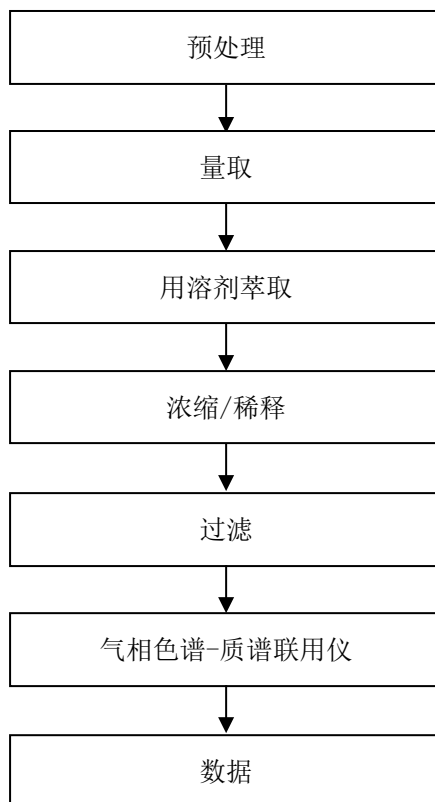
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Phthalates 检测流程图



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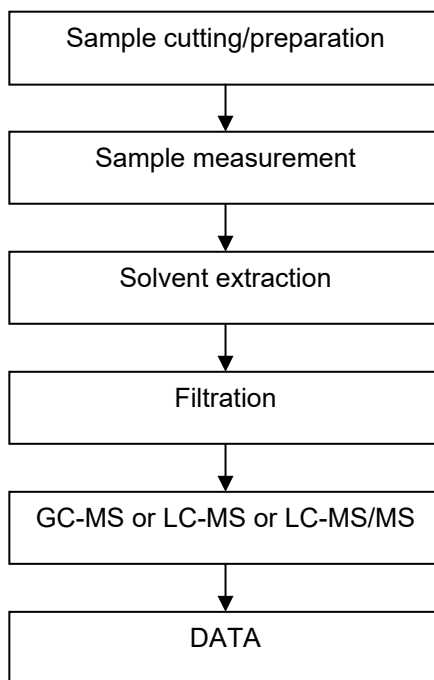
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TBBP-A Testing Flow Chart



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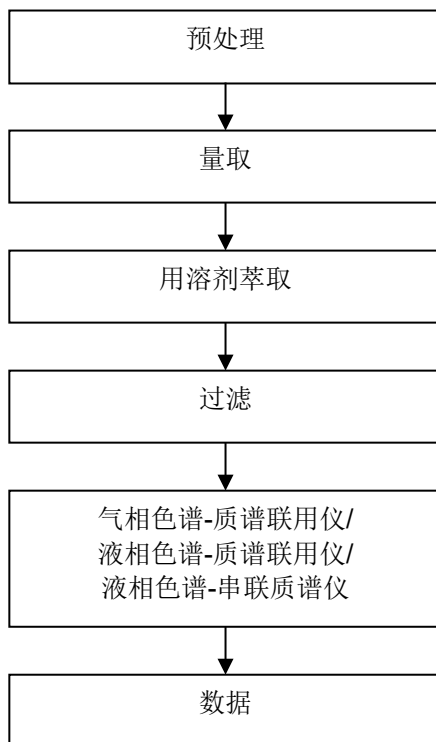
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TBBP-A 检测流程图



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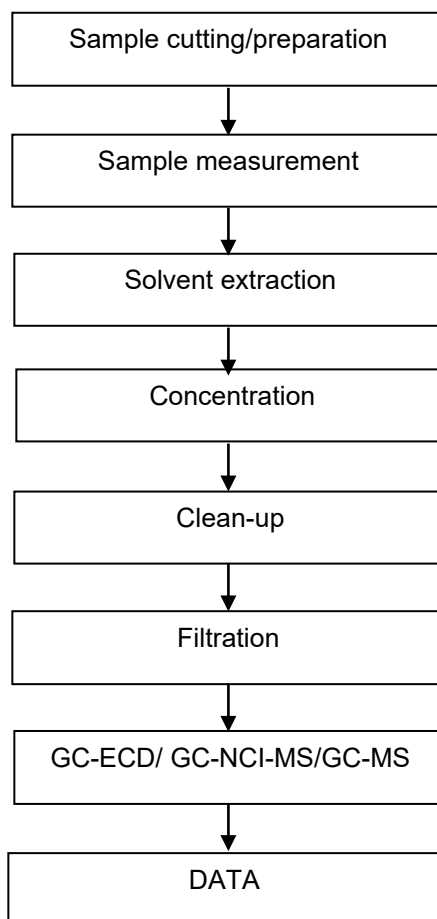
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Chlorinated Paraffin Testing Flow Chart



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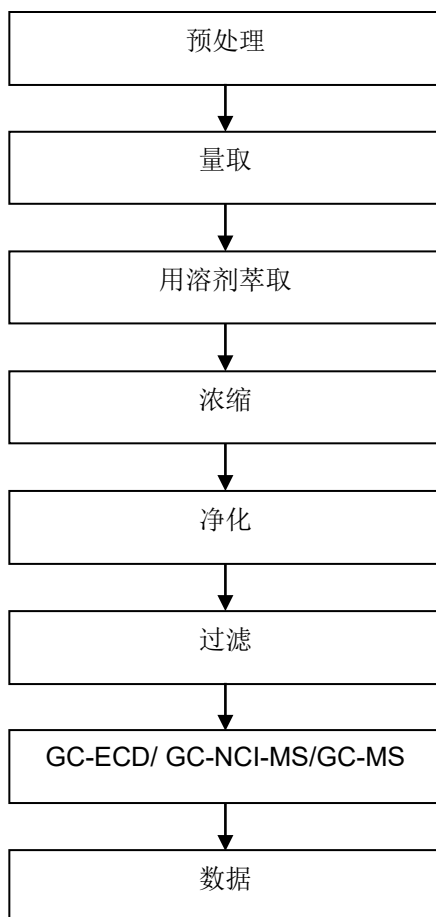
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氯化石蜡检测流程图



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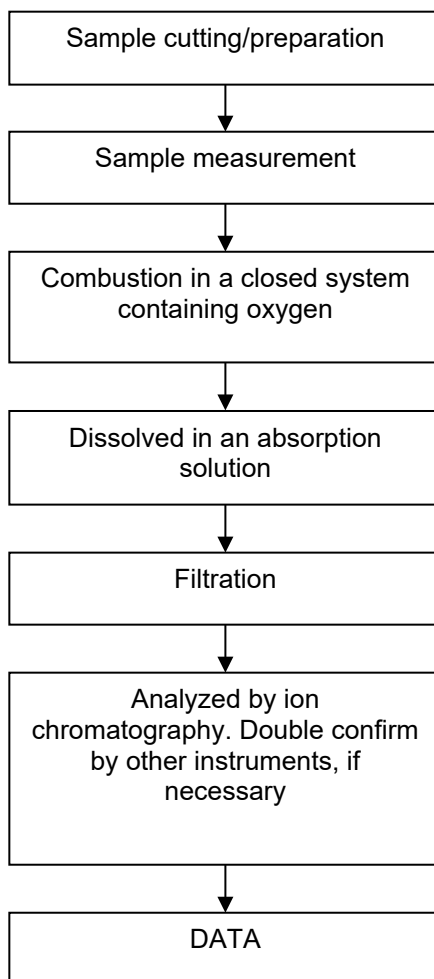
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Halogen Testing Flow Chart



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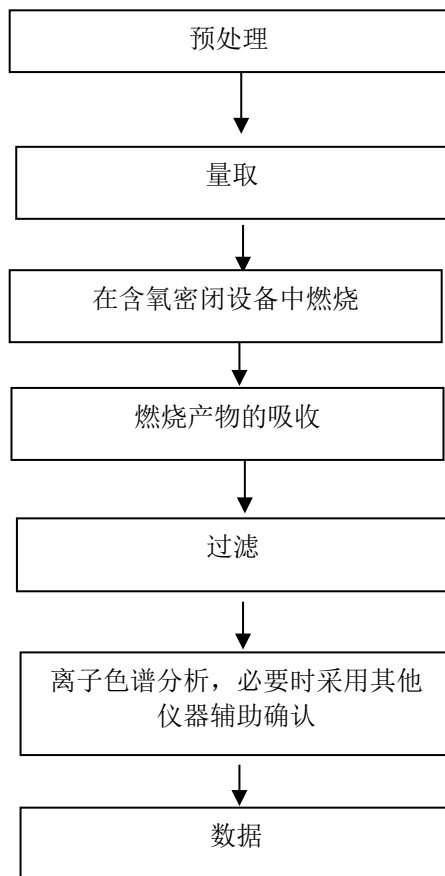
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卤素检测流程图



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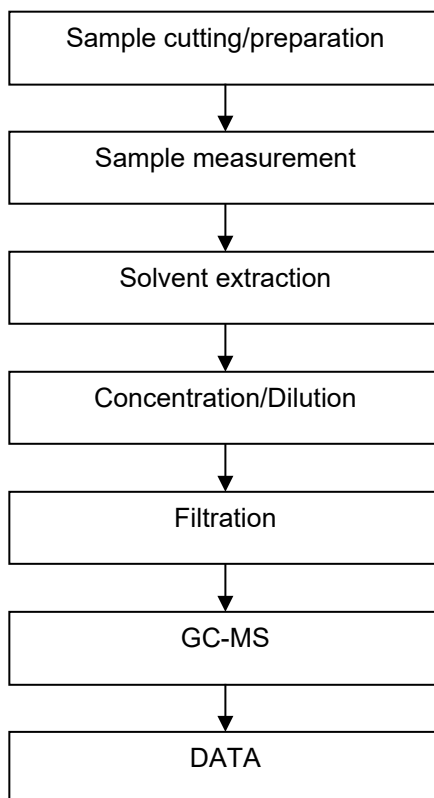
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HBCDD Testing Flow Chart



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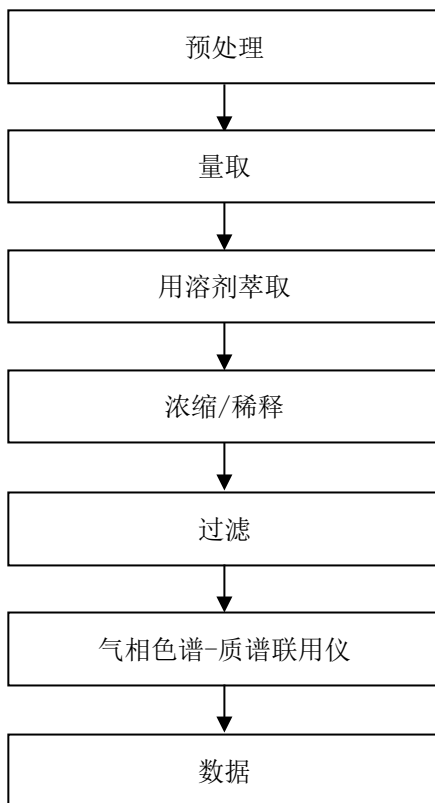
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HBCDD 检测流程图



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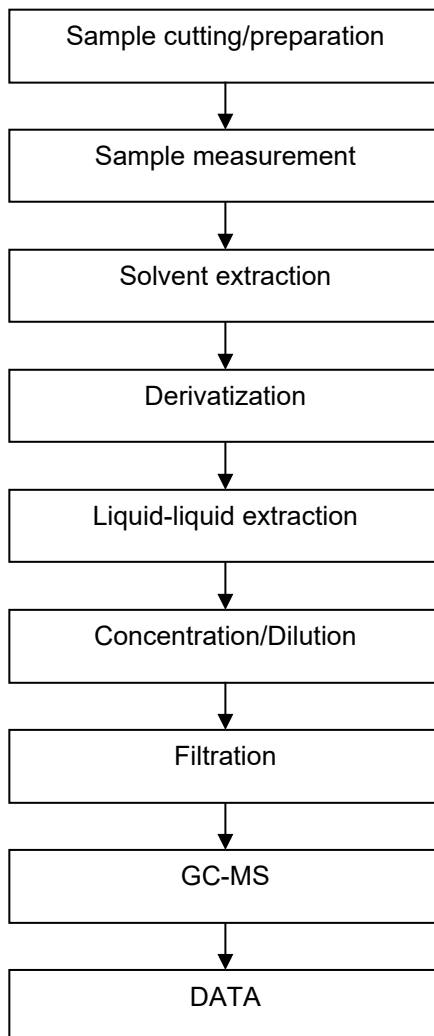
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Organotin Testing Flow Chart



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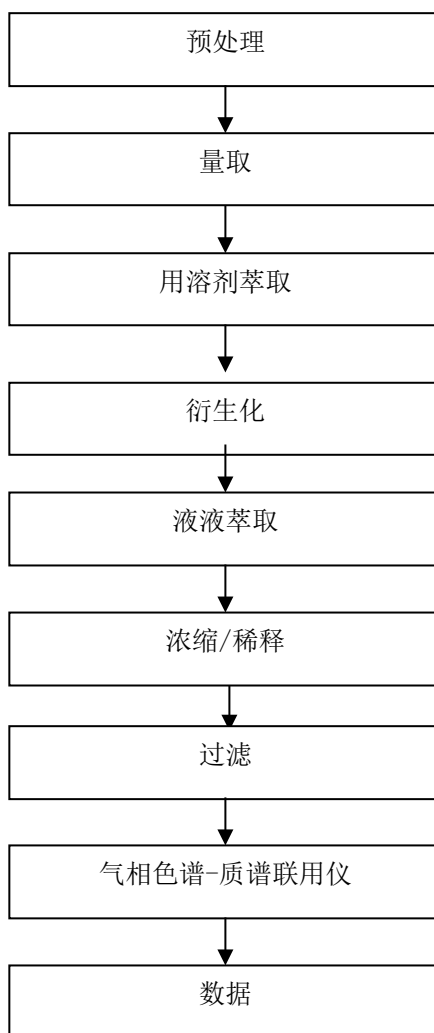
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有机锡检测流程图



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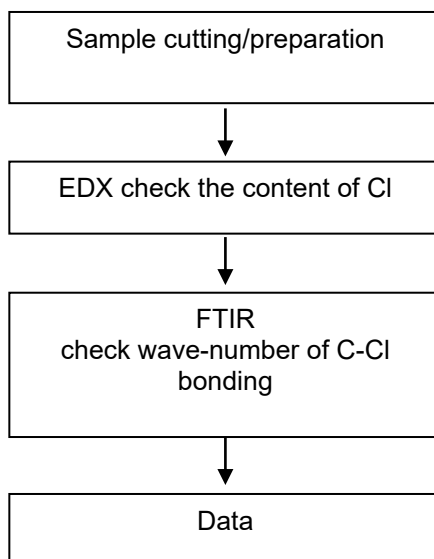
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PVC Testing Flow Chart



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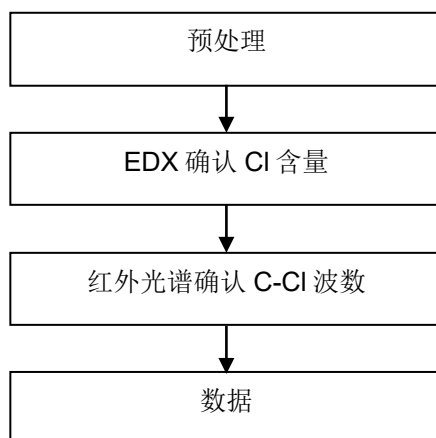
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PVC 检测流程图



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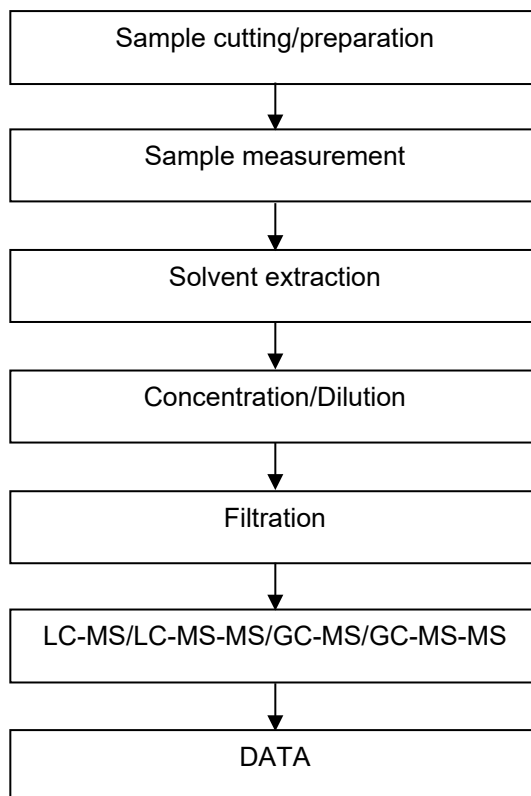
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PFASs/ PFOS/PFOA Testing Flow Chart



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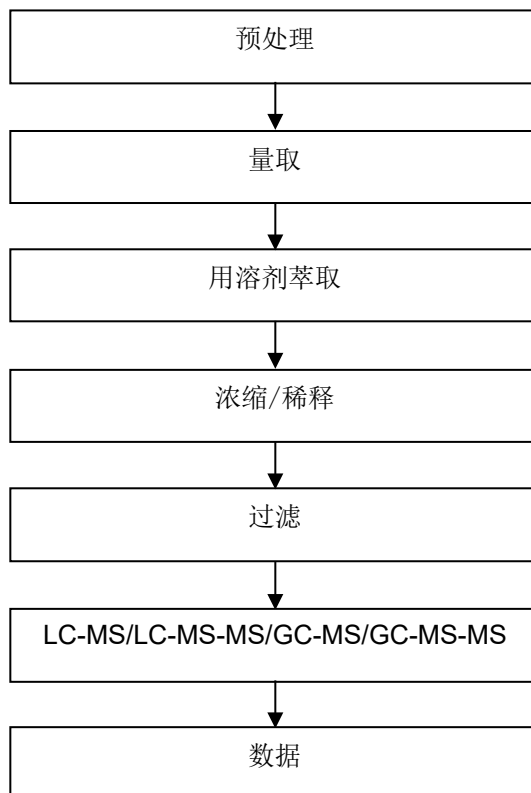
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PFASs/ PFOS/PFOA 检测流程图



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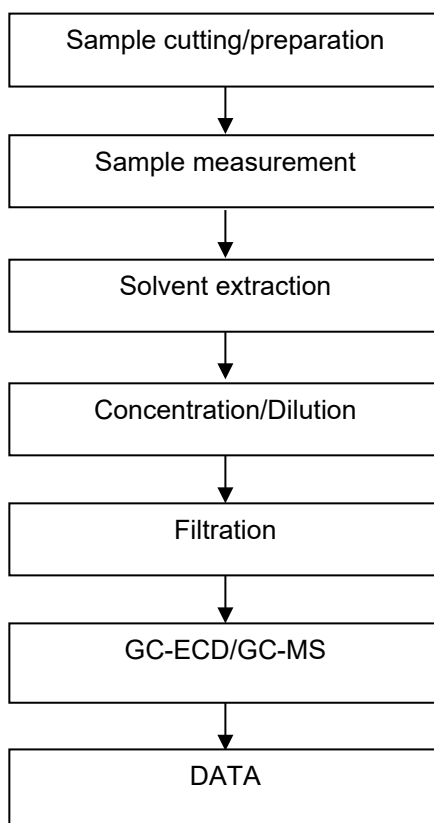
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PCBs, PCTs, PCNs Testing Flow Chart



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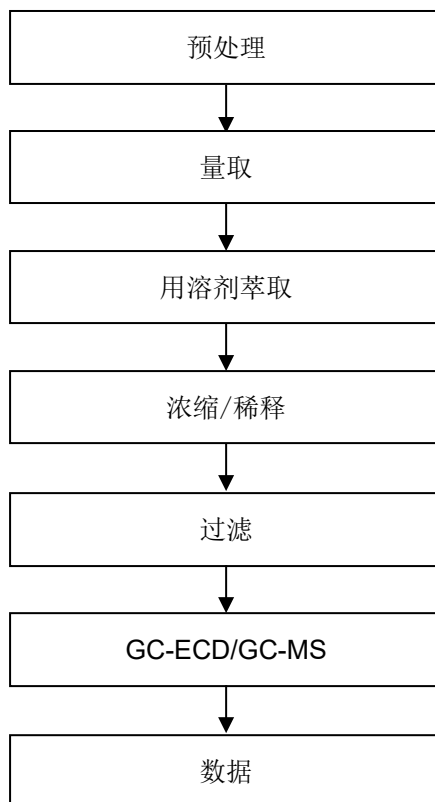
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PCBs, PCTs, PCNs 检测流程图



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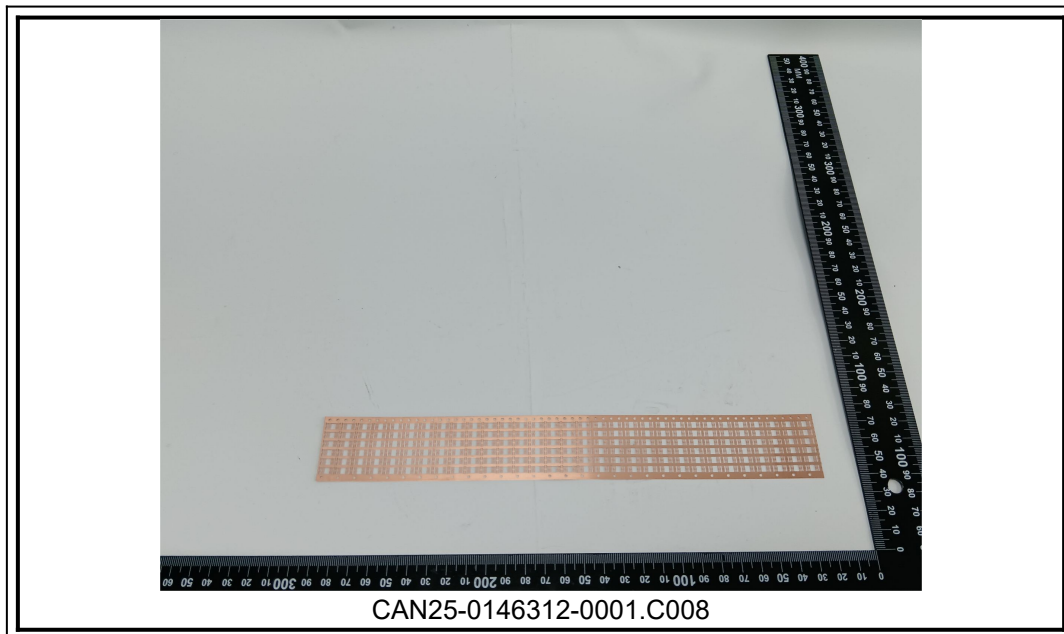
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