

检测报告

编号: SHAEC25019833610

日期: 2025年08月15日

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客户名称: 苏州固锝电子股份有限公司
客户地址: 苏州市通安开发区华金路200号

样品名称: ASMA GPP 无卤(Halogen-Free)产品
型号: ASMA GPP
客户参考信息: ASMA MSMA ASMB ASMC MSMC SMA SMB SMC GPP/TVS 产品
主要成分: 铜, 锡, 环氧

以上样品及信息由客户提供。

SGS 工作编号: SUP25-002863
样品接收时间: 2025年08月04日
检测周期: 2025年08月04日 ~ 2025年08月15日
检测要求: 根据客户要求检测。
检测方法: 见后续页。
检测结果: 见后续页。

| 检测要求 | 结论 |
|---|-------|
| 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) | 符合 |
| 卤素 | 见检测结果 |
| PFOS, 及其盐和相关化合物, PFOA 及其盐 | 见检测结果 |

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授权签名

Carol Luo 罗萍
批准签署人

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SGS-CSTI Technical Services (Shanghai) Co., Ltd.
Chemical Laboratory

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检测结果:

检测部件外观描述:

| 样品序号 | 样品编号 | SGS 样品 ID | 样品描述 |
|------|------|-------------------------|-----------|
| SN1 | A11 | SHA25-0198336-0001.C011 | 黑色本体带银色引脚 |

备注:

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

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)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 和 IEC 62321-12:2023, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

| 检测项目 | 限值 | 单位 | MDL | A11 |
|------------------|------|-------|-----|--------|
| 铅 (Pb) | 1000 | mg/kg | 2 | 17486▲ |
| 汞 (Hg) | 1000 | mg/kg | 2 | ND |
| 镉 (Cd) | 100 | mg/kg | 2 | ND |
| 六价铬 (Cr(VI)) | 1000 | mg/kg | 8 | ND |
| 多溴联苯之和 (PBB) | 1000 | mg/kg | - | ND |
| 一溴联苯 (MonoBB) | - | mg/kg | 25 | ND |
| 二溴联苯 (DiBB) | - | mg/kg | 25 | ND |
| 三溴联苯 (TriBB) | - | mg/kg | 25 | ND |
| 四溴联苯 (TetraBB) | - | mg/kg | 25 | ND |
| 五溴联苯 (PentaBB) | - | mg/kg | 25 | ND |
| 六溴联苯 (HexaBB) | - | mg/kg | 25 | ND |
| 七溴联苯 (HeptaBB) | - | mg/kg | 25 | ND |
| 八溴联苯 (OctaBB) | - | mg/kg | 25 | ND |
| 九溴联苯 (NonaBB) | - | mg/kg | 25 | ND |
| 十溴联苯 (DecaBB) | - | mg/kg | 25 | ND |
| 多溴二苯醚之和 (PBDE) | 1000 | mg/kg | - | ND |
| 一溴二苯醚 (MonoBDE) | - | mg/kg | 25 | ND |
| 二溴二苯醚 (DiBDE) | - | mg/kg | 25 | ND |
| 三溴二苯醚 (TriBDE) | - | mg/kg | 25 | ND |
| 四溴二苯醚 (TetraBDE) | - | mg/kg | 25 | ND |
| 五溴二苯醚 (PentaBDE) | - | mg/kg | 25 | ND |
| 六溴二苯醚 (HexaBDE) | - | mg/kg | 25 | ND |
| 七溴二苯醚 (HeptaBDE) | - | mg/kg | 25 | ND |
| 八溴二苯醚 (OctaBDE) | - | mg/kg | 25 | ND |

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| 检测项目 | 限值 | 单位 | MDL | A11 |
|------------------------|------|-------|-----|-----|
| 九溴二苯醚 (NonaBDE) | - | mg/kg | 25 | ND |
| 十溴二苯醚 (DecaBDE) | - | mg/kg | 25 | ND |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) | 1000 | mg/kg | 50 | ND |
| 邻苯二甲酸丁苄酯 (BBP) | 1000 | mg/kg | 50 | ND |
| 邻苯二甲酸二丁酯 (DBP) | 1000 | mg/kg | 50 | ND |
| 邻苯二甲酸二异丁酯 (DIBP) | 1000 | mg/kg | 50 | ND |

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) 2021 年 7 月 22 号开始, DEHP, BBP, DBP 和 DIBP 的限制适用于医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。

卤素

检测方法: 参考 EN 14582:2016, 采用 IC 进行分析。

| 检测项目 | 单位 | MDL | A11 |
|--------|-------|-----|-----|
| 氟 (F) | mg/kg | 20 | ND |
| 氯 (Cl) | mg/kg | 50 | ND |
| 溴 (Br) | mg/kg | 50 | ND |
| 碘 (I) | mg/kg | 50 | ND |

PFOS, 及其盐和相关化合物, PFOA 及其盐

检测方法: 优化的 EN 17681-1:2025, 采用 LC-MS 或 LC-MS/MS 进行分析。

| 检测项目 | CAS No. | 单位 | MDL | A11 |
|--|------------|-------|-------|-----|
| PFOS, 及其盐 | | | | |
| 全氟辛烷磺酸 (PFOS), 及其盐 [^] | 1763-23-1 | mg/kg | 0.010 | ND |
| PFOS 相关化合物 | | | | |
| N-乙基全氟辛烷磺酰胺 (N-EtFOSA) | 4151-50-2 | mg/kg | 0.010 | ND |
| N-甲基全氟辛烷磺酰胺 (N-MeFOSA) | 31506-32-8 | mg/kg | 0.010 | ND |
| 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-甲基全氟辛基磺酰胺)乙醇 (N-MeFOSE) | 24448-09-7 | mg/kg | 0.010 | ND |
| 全氟辛基磺酰胺 (PFOSA), 及其盐 [^] | 754-91-6 | mg/kg | 0.010 | ND |
| 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-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-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 |

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| 检测项目 | CAS No. | 单位 | MDL | A11 |
|-------------------------------|----------|-------|-------|-----|
| PFOS 相关化合物总和 | - | mg/kg | - | ND |
| PFOA, 及其盐 | | | | |
| 全氟辛酸 (PFOA), 及其盐 [▲] | 335-67-1 | mg/kg | 0.010 | ND |

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 |
| 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)锍 | 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𬭸 (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 |
| 全氟辛基磺酰氯(PFOS-Cl) | 423-60-9 |
| 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 |
| 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 |

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| | |
|---|--------------|
| 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 |
| 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 |
| 全氟辛酰氯 (PFOA-Cl) | 335-64-8 |

▲根据客户提供的声明, 编号 A11 中的铅(Pb)被欧盟 RoHS 指令 2011/65/EU 豁免, 相应豁免条文(请以英文原文为准) |ANNEX III 7(a)|: 高熔点型焊料中的铅(即铅含量等于或大于 85% 的铅基合金焊料)。

更多豁免相关信息, 可以从以下链接获取:

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检测报告

编号: SHAEC25019833610

日期: 2025年08月15日

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▲根据客户提供的声明, 编号 A11 中的铅(Pb)被欧盟 RoHS 指令 2011/65/EU 豁免, 相应豁免条文(请以英文原文为准) |ANNEX III 7(c)-II|: 电子电气元件中玻璃或陶瓷材料(电容中陶瓷介质除外)所含的铅, 如压电设备、玻璃或陶瓷基复合元件。

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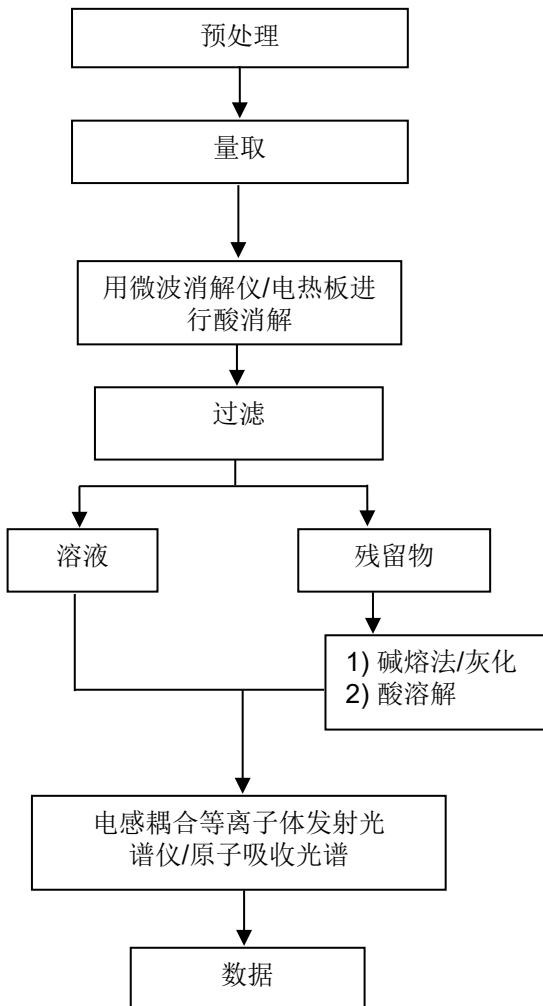
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元素检测流程图

样品按照下述流程被完全消解



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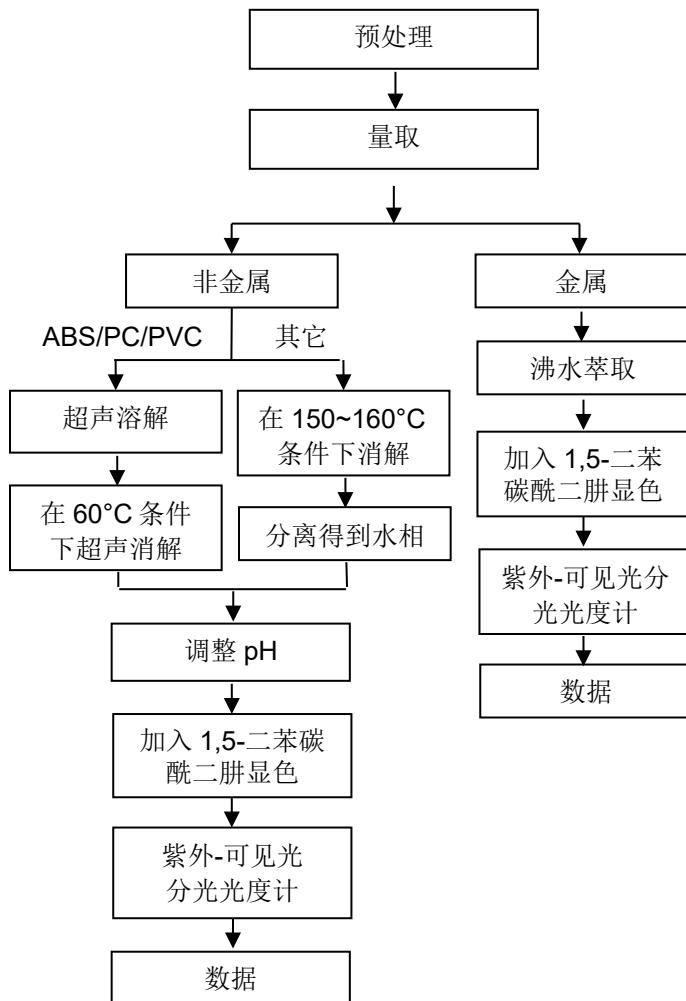
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六价铬检测流程图



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 Chemical Laboratory

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 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

tE&E (86-21) 61402553 fE&E (86-21) 64953679 www.sgsgroup.com.cn
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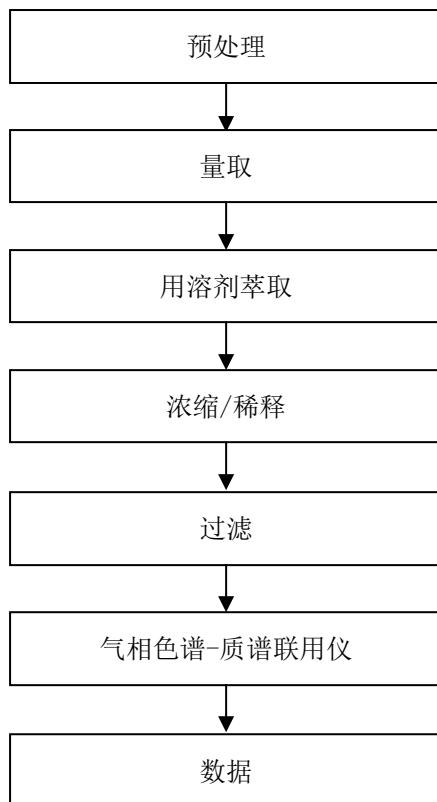
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PBB/PBDE/Phthalates 检测流程图



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t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
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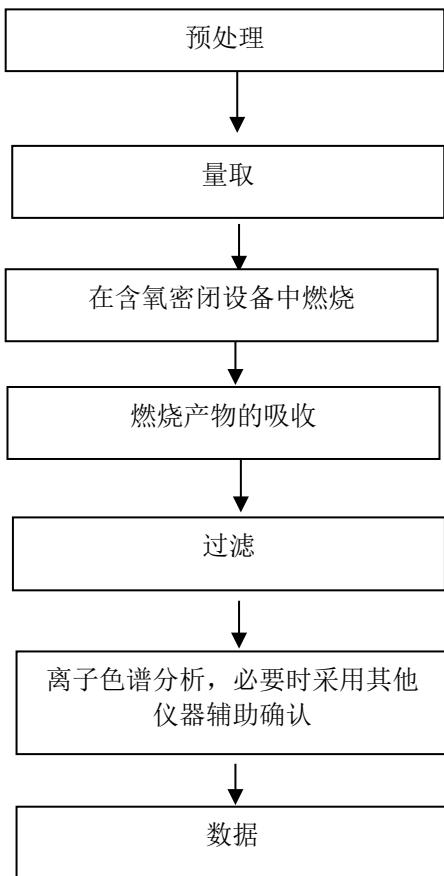
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卤素检测流程图



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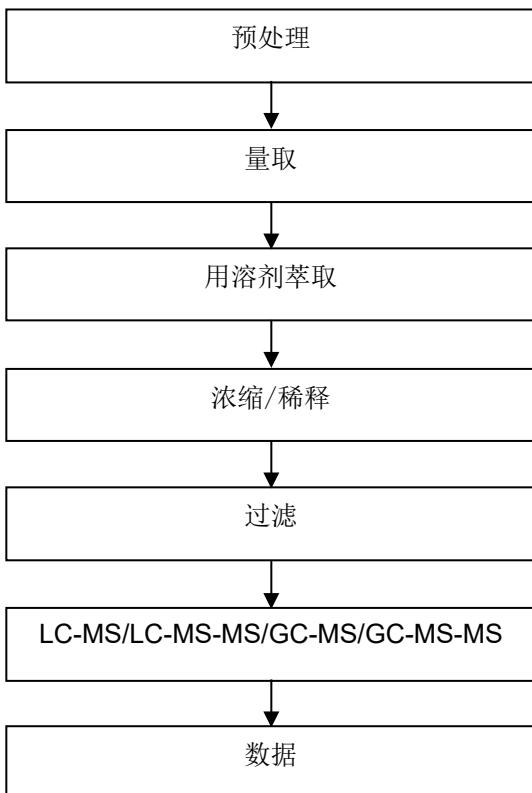
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PFASs/ PFOS/PFOA 检测流程图



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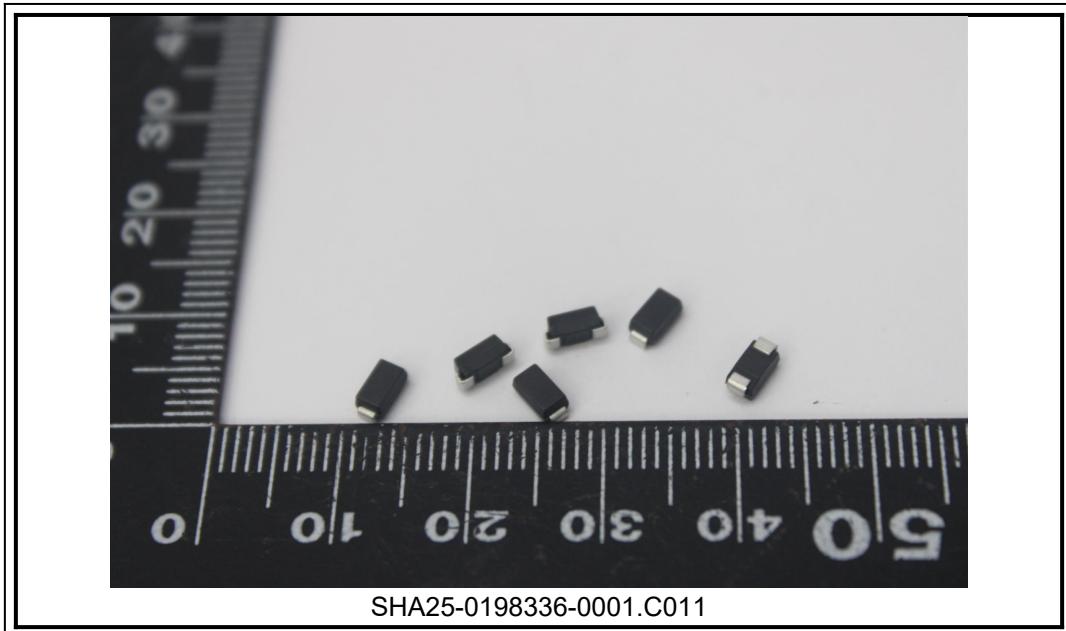
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