

Test Report
检测报告

No.: SHAEC26009262101

Date: Apr 15, 2026

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日期: 2026 年 04 月 15 日 页码 1 of 14

Client Name: Yangzhou Kanghong Semiconductor Co., Ltd
客户名称: 扬州康虹半导体有限公司
Client Address: Building B5, Jinrong Science Park, No. 158, Ji'an South Road, Yangzhou High-tech Development Zone
客户地址: 扬州高新技术开发区吉安南路 158 号金荣科技园 B5 栋

Sample Name: Diodes、Bridge

样品名称: Diodes、Bridge

Client Ref. Information: The internal part of the product is operated with high temperature tin foil, and its composition is Pb/Sn/Ag

客户参考信息: Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.
產品内部採用高溫錫箔作業,其成份為 Pb/Sn/Ag

以上信息由客户提供及确认, SGS 不承担证实客户提供信息的准确性、适当性和(或)完整性的责任

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.: SHP26-012186
SGS 工作编号: SHP26-012186
Sample Receiving Date: Apr 09, 2026
样品接收时间: 2026 年 04 月 09 日
Testing Period: Apr 09, 2026 ~ Apr 15, 2026
检测周期: 2026 年 04 月 09 日 ~ 2026 年 04 月 15 日
Test Requested: Select test(s) as requested by the client.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
通标标准技术服务(上海)有限公司
授权签名

Susu Zhang

Susu Zhang 张苏苏
Approved Signatory
批准签署人

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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).

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)	See Results 见检测结果
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium 欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬	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:

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	A4	SHA26-0092621-0001.C004	Silvery metal pin 银色金属引脚
SN2	A1+A3	SHA26-0092621-0002	Black body with printing + Black/gray body 黑色本体带印字 + 黑色/灰色本体

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



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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 62321-7-2:2017 and IEC 62321-12:2023, 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 62321-7-2:2017 和 IEC 62321-12:2023, 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	A1+A3
Lead (Pb) / 铅 (Pb)	1000	mg/kg	2	6304▲
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))	1000	mg/kg	8	ND
Polybrominated biphenyls (PBB) / 多溴联苯之和 (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB) / 一溴联苯 (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB) / 二溴联苯 (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB) / 三溴联苯 (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB) / 四溴联苯 (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB) / 五溴联苯 (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB) / 六溴联苯 (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB) / 七溴联苯 (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB) / 八溴联苯 (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB) / 九溴联苯 (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB) / 十溴联苯 (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE) / 多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND



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Test Item(s) 检测项目	Limit 限值	Unit(s) 单位	MDL	A1+A3
Monobrominated diphenyl ether (MonoBDE) / 一溴二苯醚 (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE) / 二溴二苯醚 (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE) / 三溴二苯醚 (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE) / 四溴二苯醚 (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE) / 五溴二苯醚 (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE) / 六溴二苯醚 (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE) / 七溴二苯醚 (HeptaBDE)	-	mg/kg	25	ND
Octabrominated diphenyl ether (OctaBDE) / 八溴二苯醚 (OctaBDE)	-	mg/kg	25	ND
Nonabrominated diphenyl ether (NonaBDE) / 九溴二苯醚 (NonaBDE)	-	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE) / 十溴二苯醚 (DecaBDE)	-	mg/kg	25	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
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) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

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。

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium

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欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬

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

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

Test Item(s) 检测项目	Limit 限值	Unit(s) 单位	MDL	A4
Lead (Pb) / 铅 (Pb)	1000	mg/kg	2	ND
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/cm²	0.10	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) ▼ =
- The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
 - The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.
 - The result between 0.10 µg/cm² and 0.13 µg/cm² 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) ▼ =
- 当六价铬的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价铬;
 - 当六价铬的浓度为ND (低于0.10 µg/cm²) 时, 样品为阴性, 即未检测到六价铬;
 - 当六价铬的浓度介于0.10 µg/cm²与0.13 µg/cm²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。

Remark:**备注:**

Test was conducted on composite of random parts of the item as per client's request.

▲ According to the declaration from the client, Lead (Pb) is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(a)]: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

More information about exemption can be found via the following link:

<https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf>



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▲ According to the declaration from the client, Lead (Pb) is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(c)-I]: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound. More information about exemption can be found via the following link:

<https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf>

合测是基于客户要求, 选取合测样品中随机部位进行合样检测。

▲ 根据客户提供的声明, 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:

<https://rohs.sgsonline.com.cn/PDFLinks/zh-cn/RSTS-TP-037%20RoHS%20Exemption%20%28CN%29.pdf>

▲ 根据客户提供的声明, 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)-I]: 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、玻璃或陶瓷复合元件。

更多豁免相关信息, 可以从以下链接获取:

<https://rohs.sgsonline.com.cn/PDFLinks/zh-cn/RSTS-TP-037%20RoHS%20Exemption%20%28CN%29.pdf>

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The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 (w=0) 的二元判定规则进行符合性判定。

除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。

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ATTACHMENTS

No.: SHAEC26009262101

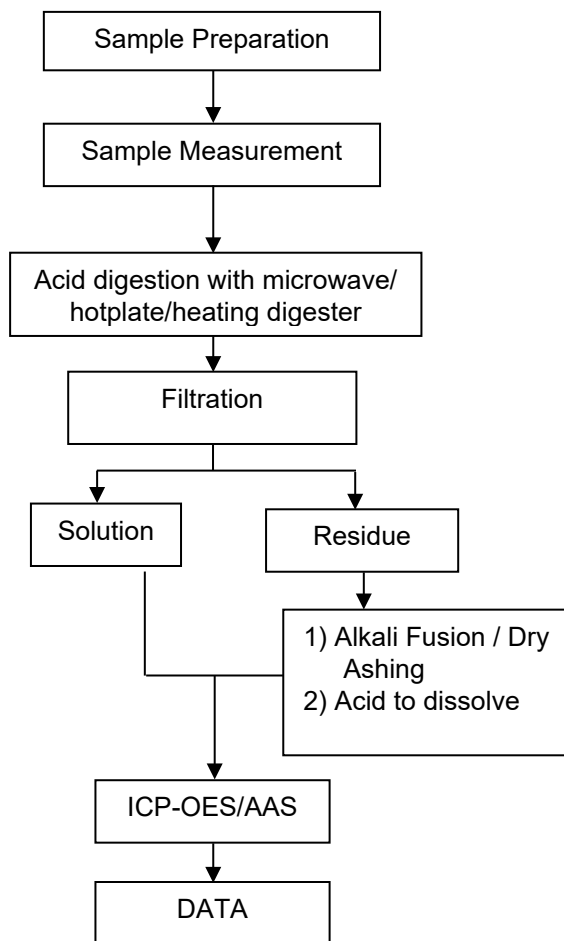
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Elements Testing Flow Chart

These samples of Pb/Cd/Hg were dissolved totally by pre-conditioning method according to below flow chart.



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Test Report

检测报告

附件

No.: SHAEC26009262101

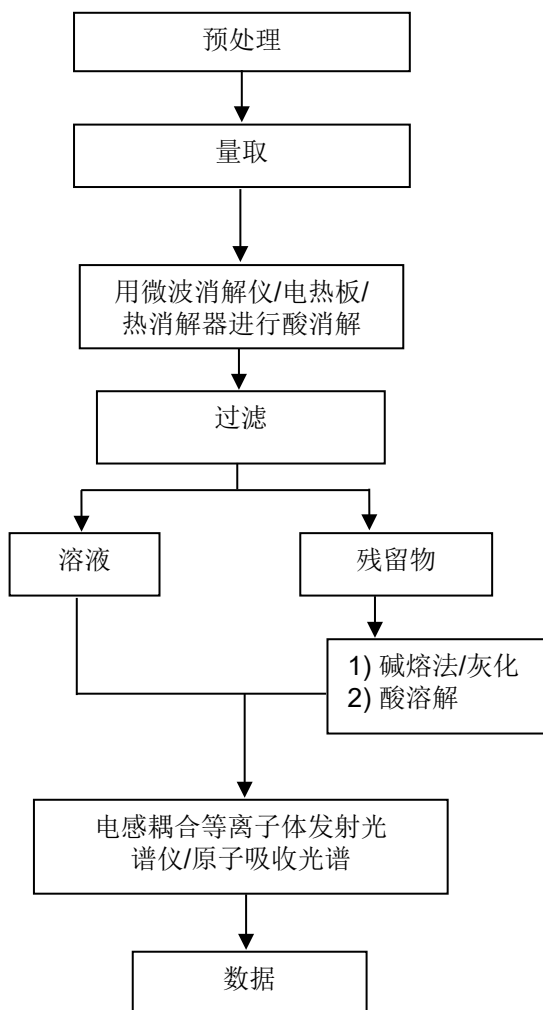
Date: Apr 15, 2026

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元素检测流程图

样品中的 Pb/Cd/Hg 按照下述流程被完全消解。



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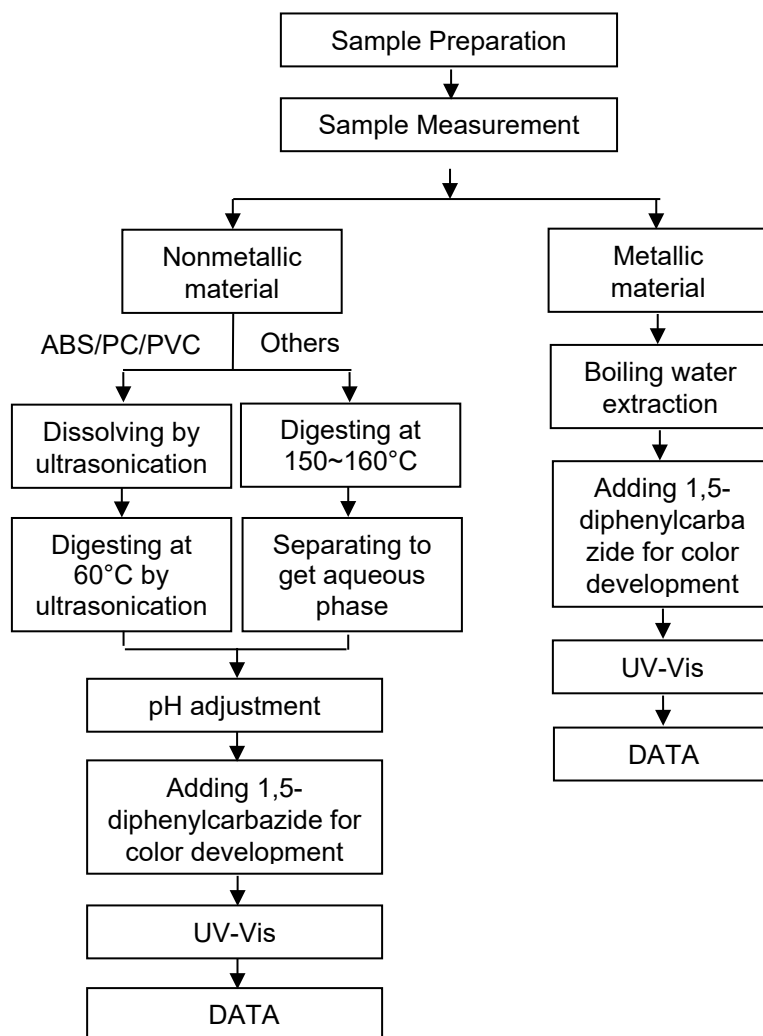
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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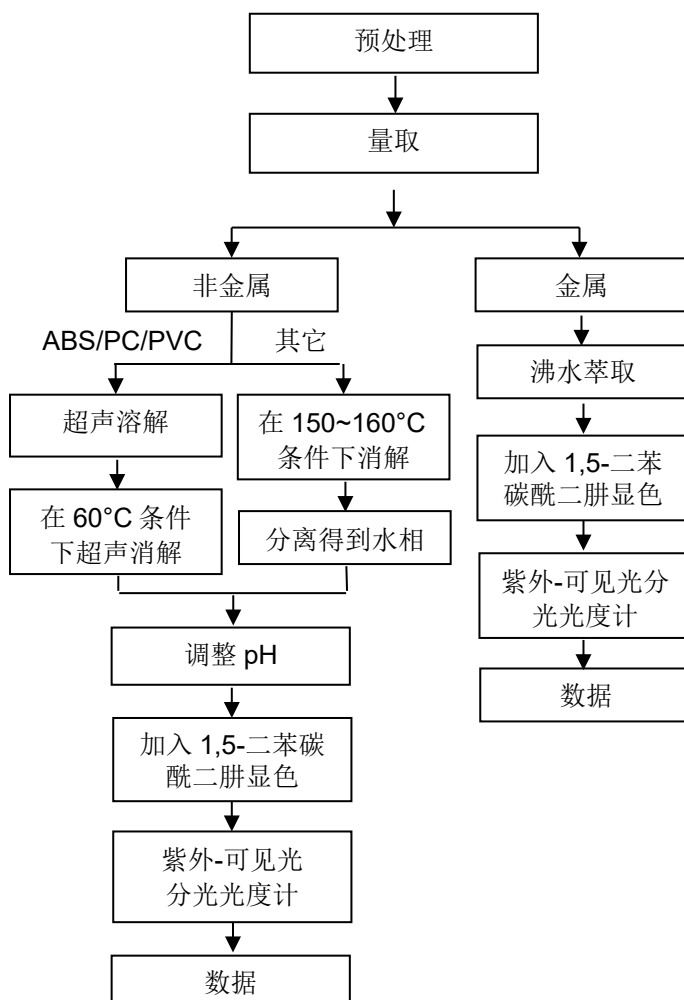
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六价铬检测流程图



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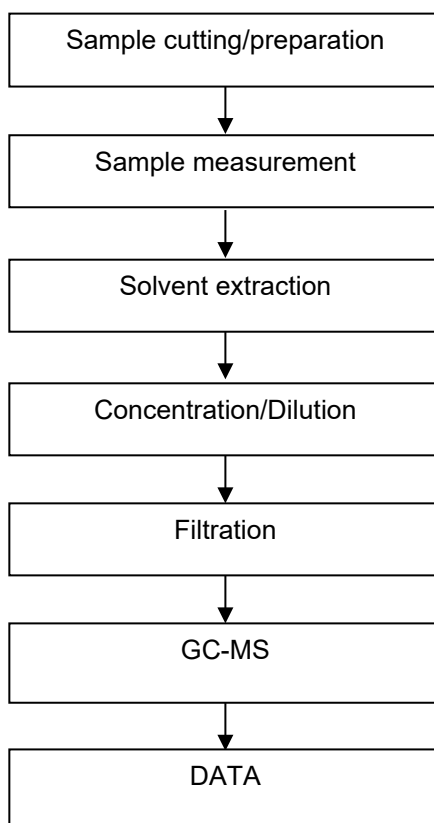
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PBB(s)/PBDE(s)/Phthalates Testing Flow Chart



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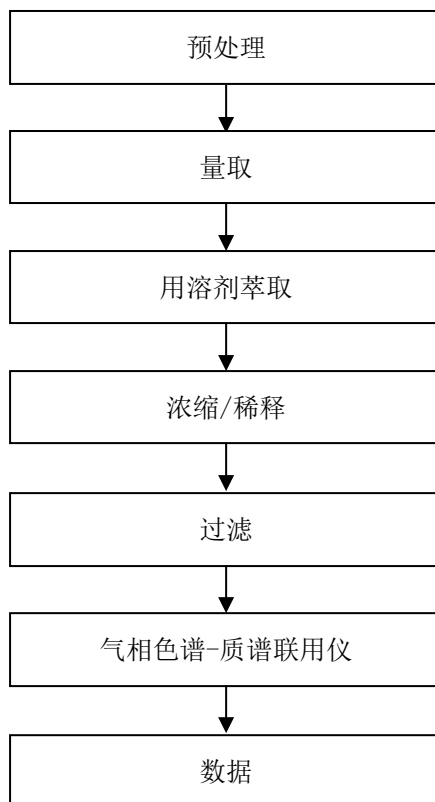
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PBB(s)/PBDE(s)/Phthalates 检测流程图



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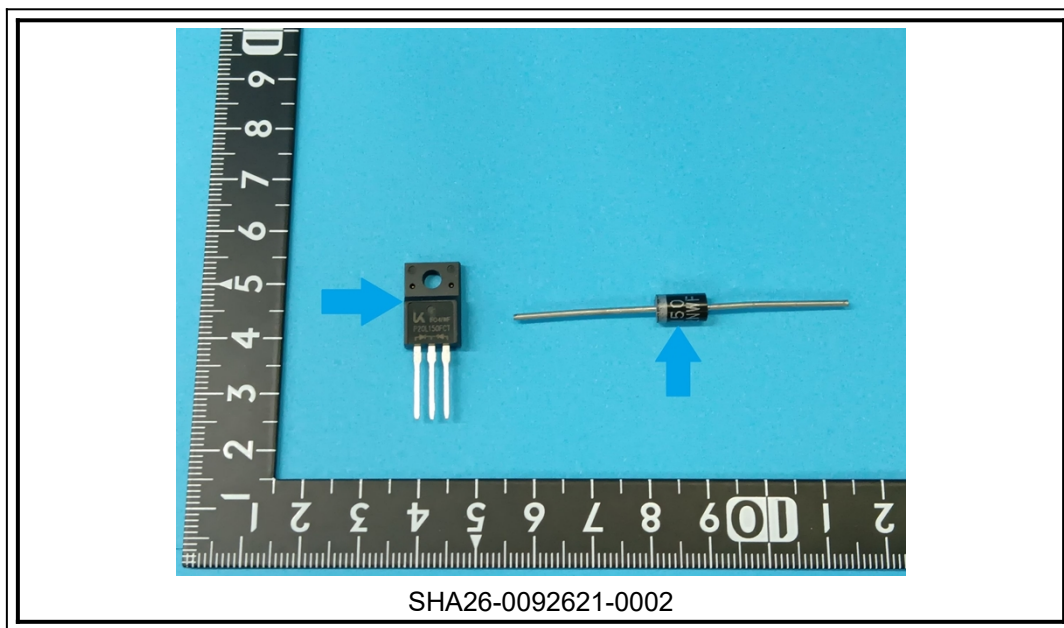
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