集团微信订阅号 集团微信服务号

测 试 报 告
Test Report

报告编号 No.： B3D518003B3D3D0Q2068ZAa

签发日期 Issued Date： 2026-06-05

委托单位 **Applicant**	：	中晶新源（上海）半导体有限公司 Sinesemi Shanghai Co.,Ltd.
地　　址 **Address**	：	中国（上海）自由贸易试验区临港新片区海洋一路 333 号 1 号楼、2 号楼 1st, 2nd & 5th Floors, Building 4, No. 288 Xueyang Road, Lingang New Area, China (Shanghai) Pilot Free Trade Zone
样品名称 **Sample Name**	：	场效应管 MOSFET
样品型号 **Model No.**	：	PDFN5060-8L
产品制造商 **Manufacturer**	：	中晶新源(上海)半导体有限公司 Sinesemi Shanghai Co.,Ltd.
买家 **Buyer**	：	中晶新源(上海)半导体有限公司 Sinesemi Shanghai Co.,Ltd.
可覆盖型号 **Covered Model**	：	SOT-23、SOP-8L、PDFN3333-8L、PDFN5060-8L-D、LFPAK5060、TOLL、sTOLL、TOLT、TO247、TO252、TO263、TO262、TO220
样品来源（获取方式） **Sample Source**	：	送样 Send Sample
样品接收日期 **Sample Received Date**	：	2026-05-18
测试日期 **Test Period**	：	2026-05-19～2026-05-22
测试类别 **Test Type**	：	委托测试 Commissioning Test
测试要求 **Test Requirement(s)**	：	RoHS 2011/65/EU 及修订指令(EU)2015/863 附录 II 的要求 RoHS Directive 2011/65/EU & (EU)2015/863 AnnexII
参考方法 **Reference Method(s)**	：	详见以下报告内容 See the report below for details
测试结果 **Test Result(s)**	：	详见以下报告内容 See the report below for details

编制人 Edited by ： 张鑫 张鑫

审核人 Checked by ： 郑璐 郑璐

批准人 Approved by 陶峰 陶峰

谱尼测试集团上海有限公司
Pony Testing Group Shanghai Co.,Ltd.

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声 明
Statement

1.本报告无检验检测专用章、报告骑缝章和批准人签章无效。
This report is invalid without special seal for inspection and test, cross-page seal and signature of the approver.

2.本报告页面所使用“PONY”、“谱尼”字样为谱尼测试集团的注册商标，其受《中华人民共和国商标法》保护，任何未经本单位授权的擅自使用和仿冒、伪造、变造“PONY”、“谱尼”商标均为违法侵权行为，本单位将依法追究其法律责任。
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3.委托单位对报告数据如有异议，请于报告完成之日起十五日内(初级农产品报告请于报告收到之日起五个工作日内)向本单位书面提出复测申请，同时附上报告原件并预付复测费。
If the applicant has any objection to the report data, please submit a written application for retesting to us within 15 days after the completion of the report (for the report of primary agricultural products, submit a written application for retesting to the unit within 5 working days after the receipt of the report), with the original report attached and the retesting fee prepaid.

4.委托单位办理完毕以上手续后，本单位会尽快安排复测。如果复测结果与异议内容相符，本单位将退还委托单位的复测费。
After the applicant completes the above procedures, we shall arrange the retesting as soon as possible. If the retest result is consistent with the objection, we will refund the retest fees.

5.不可重复性或不能进行复测的实验，不进行复测，委托单位放弃异议权利。
If the experiment cannot be repeated or cannot be retested, no retest shall be conducted, and the applicant shall waive the right of objection.

6.委托单位对送检样品的代表性和资料的真实性负责，否则本单位不承担任何相关责任。
The applicant is responsible for the representativeness of the commissioned samples and the authenticity of the documents, otherwise we do not assume any relevant responsibilities.

7.本报告未加盖检验检测资质认定标志，委托单位仅用于科研、教学、内部质量控制等活动使用，和/或不在本单位资质认定范围内，仅供内部参考，不具有社会证明作用。本报告仅对所测样品的测试结果负责，对于测试数据的使用、使用所产生的直接或间接损失及一切法律后果，本单位不承担任何经济和法律责任。
This report without CMA is only used for scientific research, teaching, internal quality control by the applicant, and/or not within the scope of ours CMA, for internal reference only, does not have social proof function. This report is only responsible for the test results of the tested sample. We do not assume any economical or legal liability generated from direct or indirect usage of the test report.

8.本单位有权在完成报告后按规定方式处理所测样品，除客户特别声明并支付样品管理费，所有超过标准规定时效期的样品均不再做留样。
We have the right to dispose the tested sample after approval of the test report. Unless the applicant specifically declares and pays the sample management fee, all samples beyond the validity period specified in the standard will not be retained.

9.本单位保证工作的客观公正性，对委托单位的商业信息、技术文件等商业秘密履行保密义务。
We assure the objectivity and impartiality of the test, and fulfills the obligation of confidentiality for applicant’s commercial information, and technique document.

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The report number is unique.

2.扫描报告首页下方二维码，即可查询报告真伪。
Scan the QR code below the first page to check the authenticity of the report.

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参考方法 Reference Method(s) ：

IEC 62321-5 Edition 1.0:2013 的方法，用原子吸收光谱仪/电感耦合等离子体发射光谱仪测定铅的含量
IEC 62321-5 Edition 1.0:2013 method, Lead Analysis is performed by AAS/ICP-OES
IEC 62321-5 Edition 1.0:2013 的方法，用原子吸收光谱仪/电感耦合等离子体发射光谱仪测定镉的含量
IEC 62321-5 Edition 1.0:2013 method, Cadmium Analysis is performed by AAS/ICP-OES
IEC 62321-4:2013+AMD1:2017 CSV 的方法，用电感耦合等离子体发射光谱仪测定汞的含量
IEC 62321-4:2013+AMD1:2017 CSV method, Mercury analysis is performed by ICP-OES
IEC 62321-7-1 Edition 1.0:2015 的方法，用紫外–可见分光光度计测定六价铬的含量
IEC 62321-7-1 Edition 1.0:2015method, Hexavalent Chromium analysis is performed by UV-Vis
IEC 62321-7-2 Edition 1.0:2017 的方法，用紫外–可见分光光度计测定六价铬的含量
IEC 62321-7-2 Edition 1.0:2017 method, Hexavalent Chromium analysis is performed by UV-Vis
IEC 62321-6 Edition 1.0:2015 的方法，用气相色谱质谱联用仪测定多溴联苯和多溴二苯醚的含量
IEC 62321-6 Edition 1.0:2015 method, PBBs and PBDEs analysis is performed by GC-MS
IEC 62321-8 Edition 1.0:2017 的方法，用气相色谱质谱联用仪测定邻苯二甲酸酯类的含量
IEC 62321-8 Edition 1.0:2017 method, Phthalate analysis is performed by GC-MS

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Test Report

报告编号 No.： B3D518003B3D3D0Q2068ZAa

签发日期 Issued Date： 2026-06-05

样品编号及名称 Sample No.& Name：B3D3D0Q2068 场效应管 MOSFET

测试结果 Test Result：

样品编号 Sample No.	零件名称 Part Name	测试项目 Test Item	方法检出限 MDL	测试结果 Test Result	ROHS 限量 Limit	单位 Unit
1	黑色塑封体	铅 Pb	2	N.D.	1000	mg/kg
		镉 Cd	2	N.D.	100	mg/kg
		汞 Hg	2	N.D.	1000	mg/kg
		六价铬 Cr(VI)	8	N.D.	1000	mg/kg
		多溴联苯之和 Sum of PBBs	—	N.D.	1000	mg/kg
		一溴联苯 Bromobiphenyl	5	N.D.	—	mg/kg
		二溴联苯 Dibromobiphenyl	5	N.D.	—	mg/kg
		三溴联苯 Tribromobiphenyl	5	N.D.	—	mg/kg
		四溴联苯 Tetrabromobiphenyl	5	N.D.	—	mg/kg
		五溴联苯 Pentabromobiphenyl	5	N.D.	—	mg/kg
		六溴联苯 Hexabromobiphenyl	5	N.D.	—	mg/kg
		七溴联苯 Heptabromobiphenyl	5	N.D.	—	mg/kg
		八溴联苯 Octabromobiphenyl	5	N.D.	—	mg/kg
		九溴联苯 Nonabromobiphenyl	5	N.D.	—	mg/kg
		十溴联苯 Decabromobiphenyl	5	N.D.	—	mg/kg
		多溴二苯醚之和 Sum of PBDEs	—	N.D.	1000	mg/kg
		一溴二苯醚 Bromodiphenyl ether	5	N.D.	—	mg/kg
		二溴二苯醚 Dibromodiphenyl ether	5	N.D.	—	mg/kg
		三溴二苯醚 Tribromodiphenyl ether	5	N.D.	—	mg/kg
		四溴二苯醚 Tetrabromodiphenyl ether	5	N.D.	—	mg/kg
		五溴二苯醚 Pentabromodiphenyl ether	5	N.D.	—	mg/kg
		六溴二苯醚 Hexabromodiphenyl ether	5	N.D.	—	mg/kg
		七溴二苯醚 Heptabromodiphenyl ether	5	N.D.	—	mg/kg
		八溴二苯醚 Octabromodiphenyl ether	5	N.D.	—	mg/kg
		九溴二苯醚 Nonabromodiphenyl ether	5	N.D.	—	mg/kg
		十溴二苯醚 Decabromodiphenyl ether	5	N.D.	—	mg/kg

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样品编号 Sample No.	零件名称 Part Name	测试项目 Test Item	方法检出限 MDL	测试结果 Test Result	ROHS 限量 Limit	单位 Unit
2	银色管脚	铅 Pb	2	14	1000	mg/kg
		镉 Cd	2	N.D.	100	mg/kg
		汞 Hg	2	N.D.	1000	mg/kg
		六价铬 Cr(VI)	见备注 See Note	阴性 Negative	—	/

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报告页码 Report Page： Page 6 of 9
签发日期 Issued Date： 2026-06-05

样品编号及名称 Sample No.& Name：B3D3D0Q2068 场效应管 MOSFET

邻苯二甲酸酯类 Phthalate 测试结果 Test Result：

样品编号 Sample No.	零件名称 Part Name	测试项目 Test Item		CAS 号 CAS NO.	方法检出限 MDL	测试结果 Test Result	ROHS 限量 Limit	单位 Unit
1	黑色塑封体	邻苯二甲酸酯类 Phthalate	邻苯二甲酸二异丁酯 DIBP	84-69-5	30	N.D.	1000	mg/kg
			邻苯二甲酸二正丁酯 DBP	84-74-2	30	N.D.	1000	mg/kg
			邻苯二甲酸丁基苄酯 BBP	85-68-7	30	N.D.	1000	mg/kg
			邻苯二甲酸（2-乙基己基）酯 DEHP	117-81-7	30	N.D.	1000	mg/kg
2	银色管脚							

备注 Note：

(1) mg/kg = ppm

(2) “—”= 未规定 Does not stipulate

(3) 最大允许极限值引用 RoHS 2011/65/EU 及修订指令(EU)2015/863 附录Ⅱ的要求
The most allowable limit value reference to RoHS Directive 2011/65/EU & (EU)2015/863 Annex Ⅱ

(4) 沸水萃取测试：
Boiling water extraction test:
<0.10 μg/cm^2 以阴性表示，即镀层中不存在六价铬
<0.10 μg/cm^2 expressed as “negative” results, indicates without hexavalent chromium in the plating
0.10 μg/cm^2 ~0.13μg/cm^2 无法判定镀层中是否存在六价铬，需进一步确定。
0.10 μg/cm^2~0.13 μg/cm^2 expressed as “not confirmative”, indicates that it can not be confirmative for the presence of hexavalent chromium in the plating, further test is needed.
>0.13 μg/cm^2 以阳性表示，即镀层中存在六价铬。
>0.13 μg/cm^2 expressed as “positive”, indicates that hexavalent chromium is detected in the plating.

(5) N.D.=未检出(＜方法检出限)Not Detected (＜MDL)

(6) 根据委托单位声明，可覆盖型号样品材质相同，PONY 不负责该信息的真实性
According to the statement of the applicant,Covered Model is the same material, PONY is not responsible for the authenticity of this information.

(7) 此报告替代编号 B3D518003B3D3D0Q2068ZA（2026-05-26 签发）测试报告。编号 B3D518003B3D3D0Q2068ZA 测试报告作废，不具有任何法律效力，以此报告为准。2026-06-05
This test report is to replace the test report No.B3D518003B3D3D0Q2068ZA(Issued by 2026-05-26). The No.B3D518003B3D3D0Q2068ZA test report is invalid and of no legal effect. All related information should be referred to the new test report. 2026-06-05

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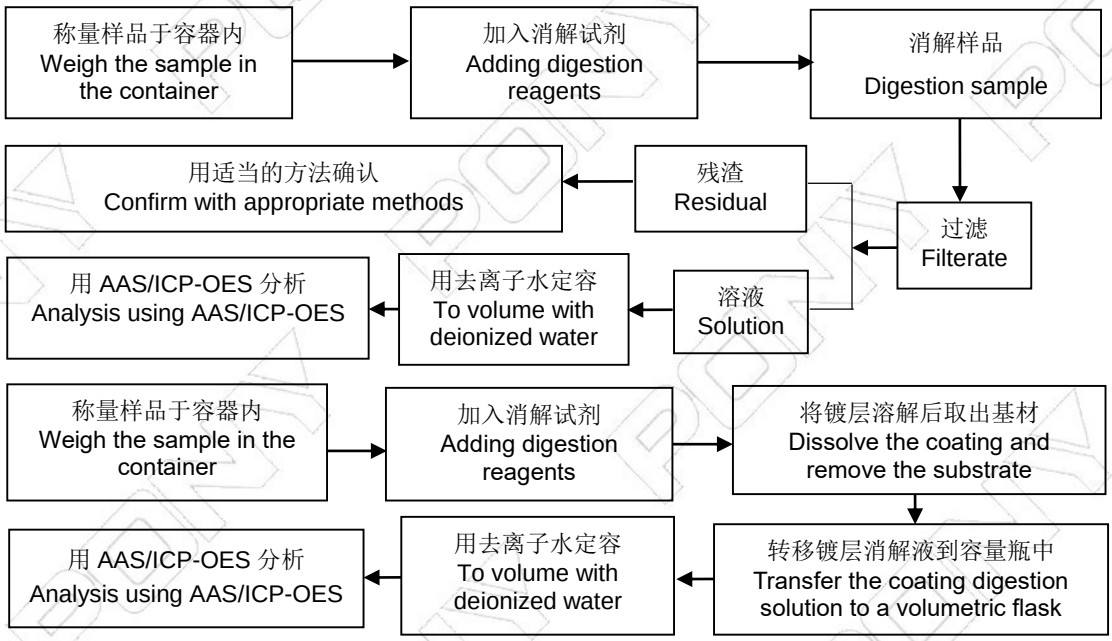
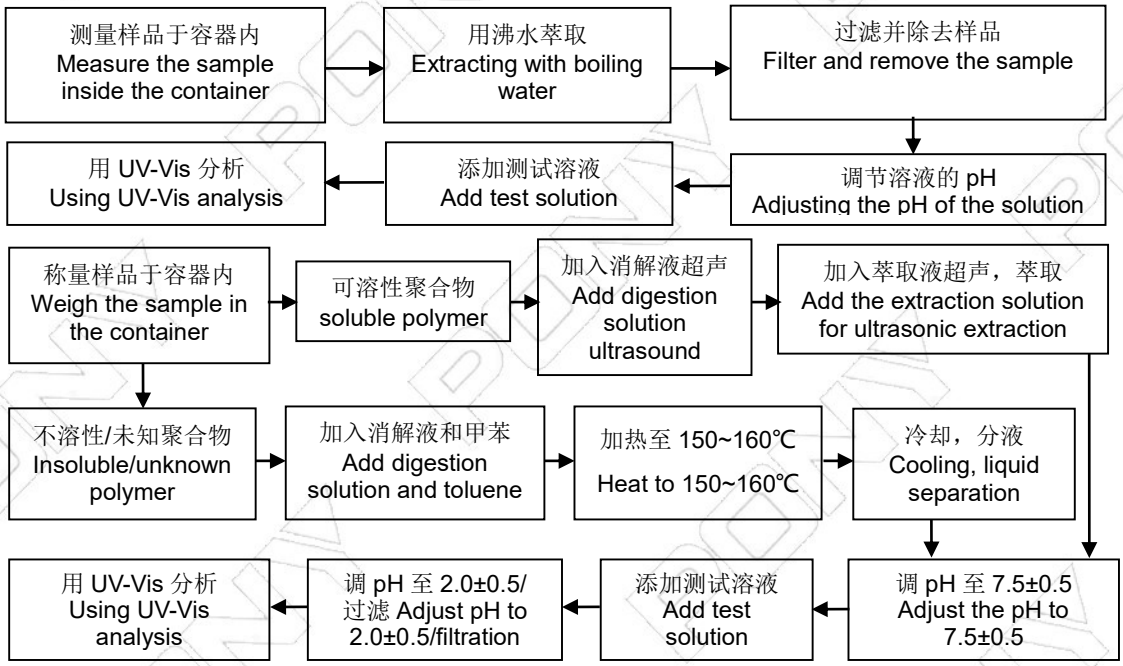
测试流程图 Testing Flow Chart

1. 铅 Pb/镉 Cd/汞 Hg



2. 六价铬(Cr(VI))



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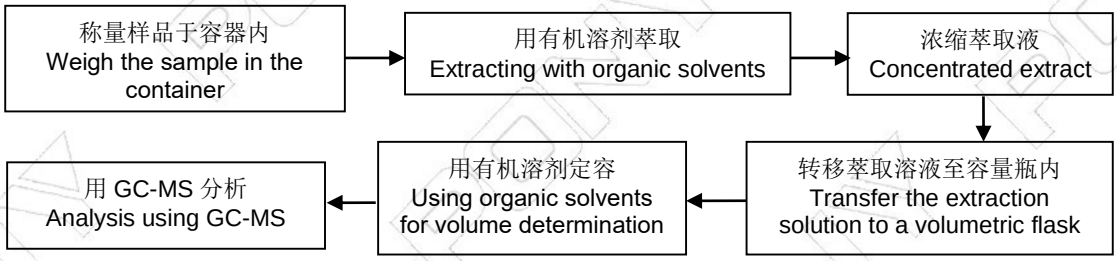
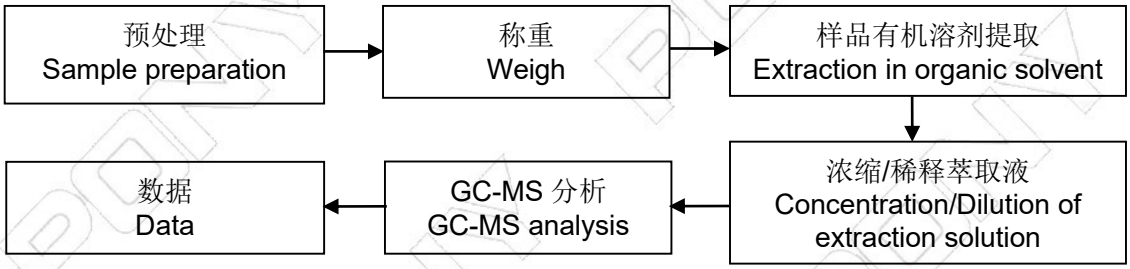
多溴联苯、多溴二苯醚测试流程图 PBBs，PBDEs Testing Flow Chart



邻苯二甲酸酯类测试流程图 Phthalate Testing Flow Chart



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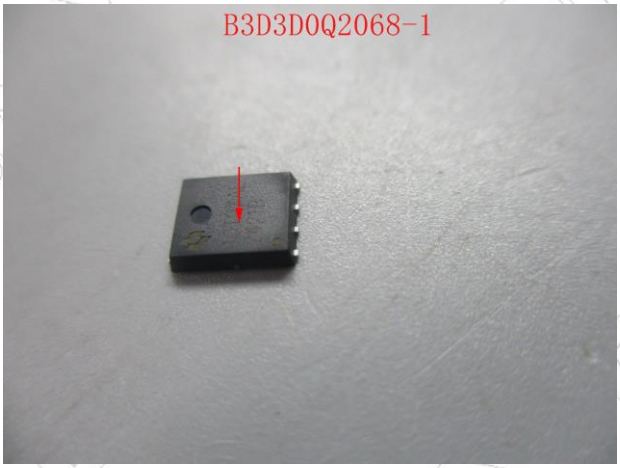
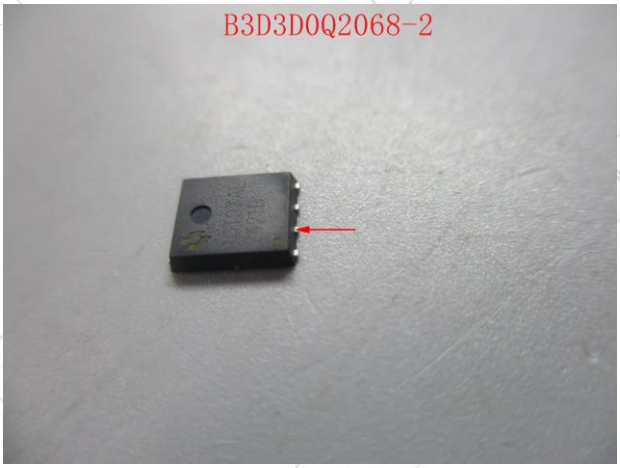
样品照片 Sample No. & Photo：





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