



检测报告

Test Report

报告编号 A225006367610101E
Report No. A225006367610101E

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报告抬头公司名称 东莞市高嘉精密电子有限公司
Company Name DONG GUAN GAOJIA PRECISION ELECTRONICS CO., LTD.
shown on Report
地 址 东莞市沙田镇沙田大道 263 号 3 单元 101 室
Address ROOM 101, UNIT 3, NO. 263 SHATIAN AVENUE, SHATIAN TOWN, DONGGUAN

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	针座
Sample Name(s)	Wafer
材料名称	Phosphor bronze; LCP
Material	Phosphor bronze; LCP
样品接收日期	2025.02.10
Sample Received Date	Feb. 10, 2025
样品检测日期	2025.02.10-2025.02.15
Testing Period	Feb. 10, 2025 to Feb. 15, 2025

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(DBP, BBP, DEHP, DIBP)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 (DBP, BBP, DEHP, DIBP) 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

夏清

授权签字人 Lab Authorized

Signatory

日 期
Date

2025.02.15

华测检测认证集团股份有限公司
Centre Testing International Group Co., Ltd.
检验检测专用章
Inspection & Testing Services

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

No. R812811865

广东省深圳市宝安区新安街道兴东社区华测检测大楼

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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 62321-7-1:2015	UV-Vis
	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 62321-12:2023	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-12:2023	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-12:2023	GC-MS

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检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result		方法检出限 MDL
	001	003	
铅 Lead (Pb)	N.D.	19 mg/kg	2 mg/kg
镉 Cadmium (Cd)	N.D.	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	N.D.	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	--	8 mg/kg
	--	N.D. ▽	0.10 µg/cm ² (LOQ)

测试项目 Tested Item(s)	结果 Result		方法检出限 MDL
	001		
多溴联苯 Polybrominated Biphenyls (PBBs)			
一溴联苯 Monobromobiphenyl	N.D.		25 mg/kg
二溴联苯 Dibromobiphenyl	N.D.		25 mg/kg
三溴联苯 Tribromobiphenyl	N.D.		25 mg/kg
四溴联苯 Tetrabromobiphenyl	N.D.		25 mg/kg
五溴联苯 Pentabromobiphenyl	N.D.		25 mg/kg
六溴联苯 Hexabromobiphenyl	N.D.		25 mg/kg
七溴联苯 Heptabromobiphenyl	N.D.		25 mg/kg
八溴联苯 Octabromobiphenyl	N.D.		25 mg/kg
九溴联苯 Nonabromobiphenyl	N.D.		25 mg/kg
十溴联苯 Decabromobiphenyl	N.D.		25 mg/kg

测试项目 Tested Item(s)	结果 Result		方法检出限 MDL
	001		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.		25 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.		25 mg/kg
三溴二苯醚 Tribromodiphenyl ether	N.D.		25 mg/kg
四溴二苯醚 Tetrabromodiphenyl ether	N.D.		25 mg/kg
五溴二苯醚 Pentabromodiphenyl ether	N.D.		25 mg/kg
六溴二苯醚 Hexabromodiphenyl ether	N.D.		25 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.		25 mg/kg
八溴二苯醚 Octabromodiphenyl ether	N.D.		25 mg/kg
九溴二苯醚 Nonabromodiphenyl ether	N.D.		25 mg/kg
十溴二苯醚 Decabromodiphenyl ether	N.D.		25 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 (DBP, BBP, DEHP, DIBP)		
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	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
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

样品/部位描述 Sample/Part Description

序号 No.	CTI 样品 ID CTI Sample ID	描述 Description
1	001	混测, 米色和米白色塑料 Mixed test, beige and beige white plastic
2	003	混测, 有银色镀层的金属 Mixed test, metal with silvery plating

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备注: -对于检测铅, 镉, 汞之样品已消解完全。
-根据客户要求, 对样品进行混合测试, 测试结果不代表混合测试样品中任何一种单一材质的含量。
-N.D. = 未检出 (小于方法检出限或定量限)
-mg/kg = ppm = 百万分之一
-LOQ = 定量限, 六价铬的定量限为 $0.10 \mu\text{g}/\text{cm}^2$
-▼六价铬浓度小于 $0.10 \mu\text{g}/\text{cm}^2$, 样品未检出六价铬。由于未获知样品的存储条件 and 生产日期, 样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

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

-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL or LOQ)
-mg/kg = ppm = parts per million
-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is $0.10 \mu\text{g}/\text{cm}^2$
-▼The sample is negative for Cr(VI) – The Cr(VI) concentration is below $0.10 \mu\text{g}/\text{cm}^2$. The coating is considered a non-Cr(VI) based coating. 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.

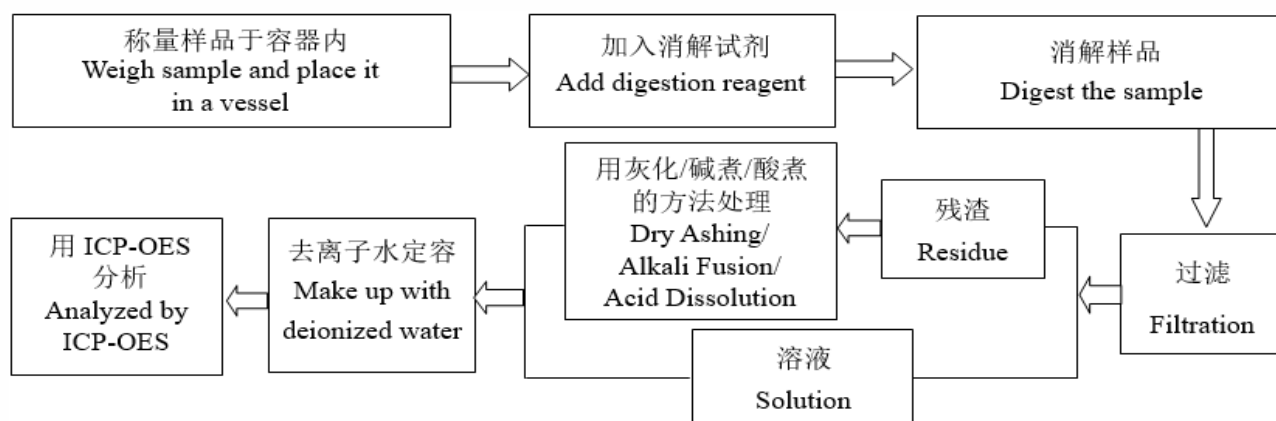
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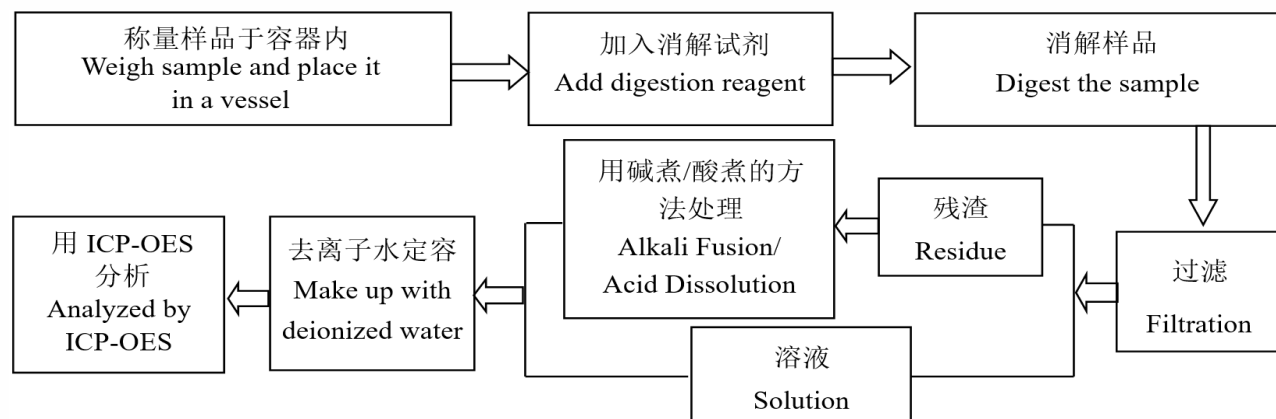
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检测流程 Test Process

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

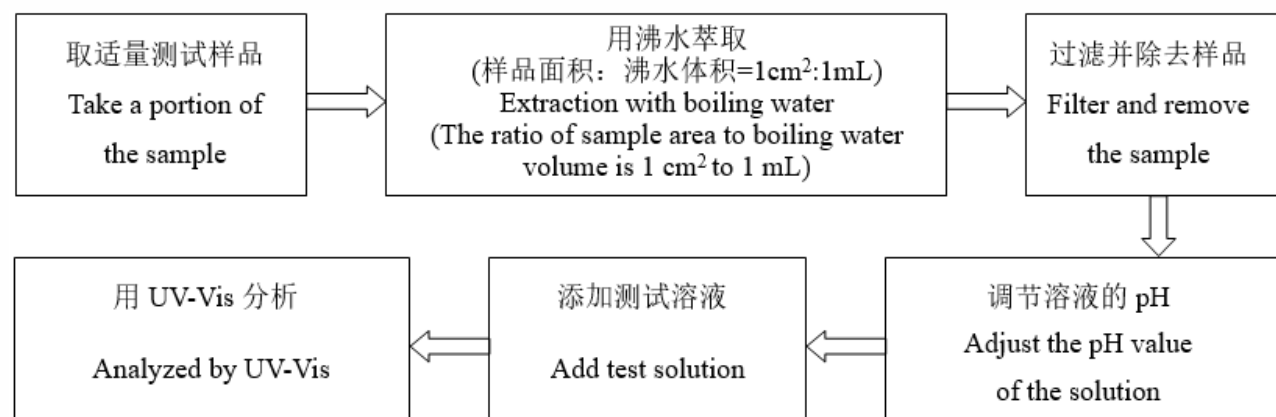


2. 汞 Mercury (Hg)



3. 六价铬 Hexavalent Chromium (Cr(VI))

(1) IEC 62321-7-1:2015

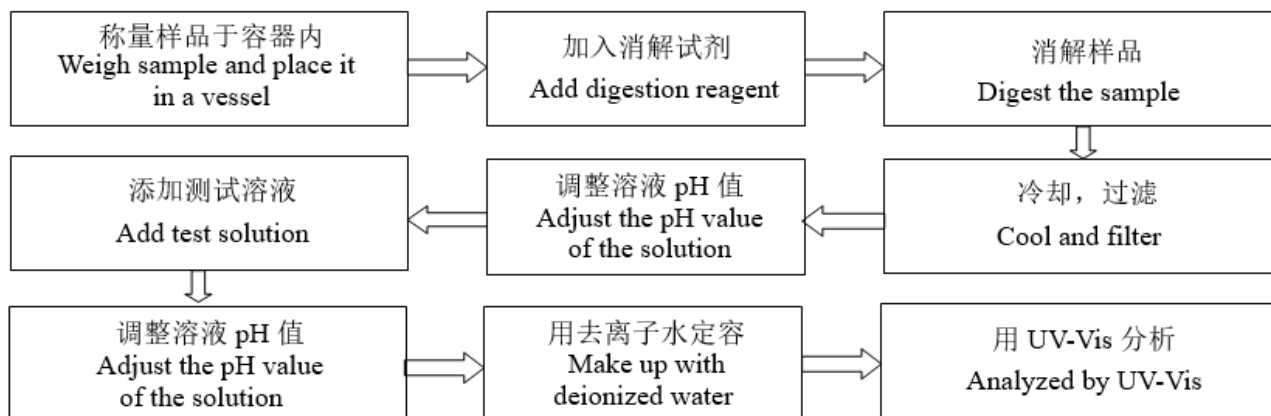


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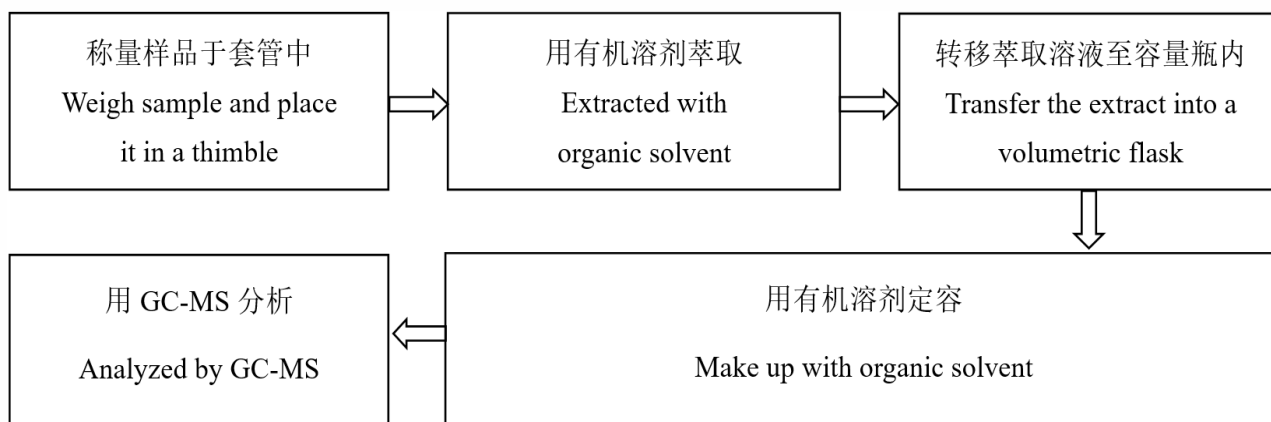
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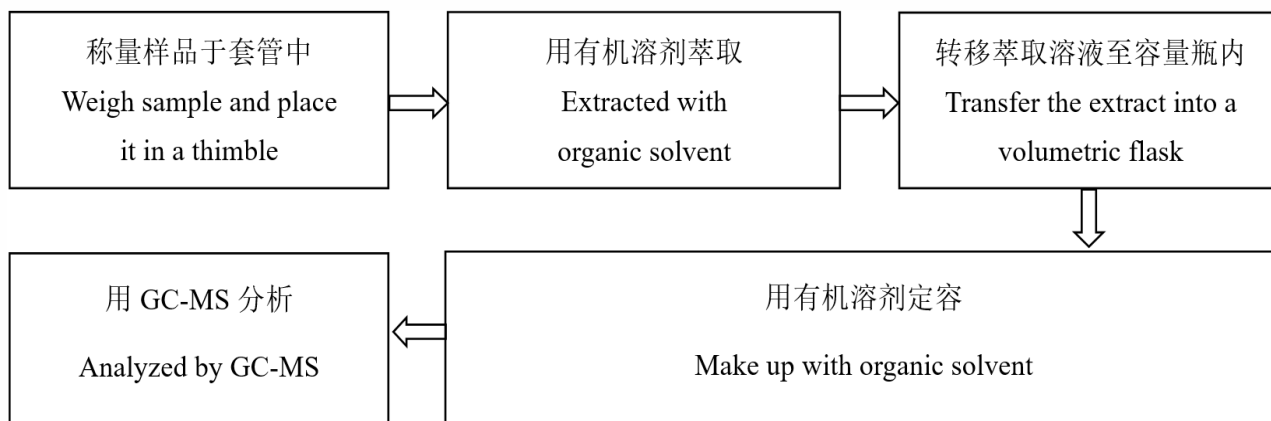
(2) IEC 62321-7-2:2017



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



5. 邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)



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样品图片

Photo(s) of the sample(s)



声明 Statement:

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明, 报告参照 ILAC-G8:09/2019 / CNAS-GL015:2022 使用简单接受 (w=0) 二元判定规则进行符合性判定; Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. 未经 CTI 书面同意, 不得部分复制本报告;
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In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** 报告结束 ***
*** End of Report ***

附录 Appendix

客户参考信息 Client Reference Information

产品系列					
A0080 线到板系列	A2001 线到板系列	A3961 线到板系列	B0001-B0004 端到板系列	C1251 线到线系列	RNB 穿线系列
A1001 线到板系列	A2002 线到板系列	A4201 线到板系列	B0005-B0007 端到板系列	C2000 线到线系列	/
A1201 线到板系列	A2003 线到板系列	A4501 线到板系列	B1001 端到板系列	C2001 线到线系列	/
A1002 线到板系列	A2004 线到板系列	/	B1251 端到板系列	C2002 线到线系列	/
A1003 线到板系列	A2005 线到板系列	/	B1601 端到板系列	C2003 线到线系列	/
A1004 线到板系列	A2006 线到板系列	/	B1801 端到板系列	C2004 线到线系列	/
A1005 线到板系列	A2007 线到板系列	/	B2001 端到板系列	C2005 线到线系列	/
A1006 线到板系列	A2501 线到板系列	/	B2501 端到板系列	C2006 线到线系列	/
A1251 线到板系列	A2502 线到板系列	/	/	C2501 线到线系列	/
A1252 线到板系列	A2541 线到板系列	/	/	C2542 线到线系列	/
A1253 线到板系列	A2542 线到板系列	/	/	C4201 线到线系列	/
A1254 线到板系列	A2543 线到板系列	/	/	C4851 线到线系列	/
A1501 线到板系列	/	/	/	C6201 线到线系列	/
A1502 线到板系列	/	/	/	/	/
A1503 线到板系列	/	/	/	/	/
3#产品信息					
针座 (Wafer)					
A0080WVS A0080WRS A1001WRS A1001WRS-HK A1001WVS A1001WVS-HK A1201WRS A1201WVS A1002WRS A1002WVS A1003WRS A1003WVS A1004WRS A1004WVS A1005WRS A1005WVS A1006WRS A1006WVS A1251WRS A1251WVS A1252WRS A1252WVS A1253WRS A1253WVS A1254WRS A1254WVS A1501WRS A1501WVS A1502WRS A1502WVS A1503WRS A1503WVS A2001WRS A2001WVS A2002WRD A2002WRD-LE A2002WVD A2003WRS A2003WVS A2004WVS A2004WRS A2005WVS A2005WRS A2006WVS A2006WRS A2007WVS A2007WRS A2501WRD A2501WRS A2501WRD-K A2501WVD A2501WVD-K A2501WVD-P A2501WVD-PK A2501WVS A2502WVD A2502WRD A2502WVS A2502WRS A2541WRD-HBD A2541WRD-HBU A2541WRD-PBD A2541WRD-PBU A2541WVD A2542WRS A2542WVS A2542WRD A2542WVD A2543WRS A2543WVS A3961WRD-HB A3961WRD-PB A3961WVD A3961WVD-P A4201WRD A4201WVD A4201WVS A4201WRS C2000WSD					

客户参考图片 (非测试样品) Client Reference Photo (Non-tested sample)



声明 Statement:

1. 附录内容由申请者提供，申请者应对其真实性负责，CTI 未核实其真实性。

The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

2. 附录内容为 A225006367610101E 报告的补充。

The Appendix Information is/are the supplement(s) for the Report A225006367610101E.