

Test Report

No.: EGZ2406140140C00202R

Date: Jun. 21, 2024

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Applicant : Chipintelli Technology Co., Ltd.
委托单位 : 成都启英泰伦科技有限公司
Address : The 12th floor, Building 4A, Jingronghui, No.200 Tianfu 5th Street,
High-tech Zone, Chengdu, China.
地 址 : 成都市高新区天府五街 200 号菁蓉汇 4A 栋 12 楼

Sample Name : Chip
样品名称 : 芯片
Model/型号 : CI13161
Lot No. / 批号 : NA
Size/尺寸 : 长: 10.10mm, 宽: 6.07mm, 高: 1.47mm
Weight/重量 : 0.1563g

Received Date : Jun. 14, 2024
接收日期 : 2024 年 06 月 14 日
Test Period : Jun. 14, 2024~ Jun. 21, 2024
检测日期 : 2024 年 06 月 14 日~2024 年 06 月 21 日

Test Requested : As requested by client, according to RoHS Directive (EU) 2015/863 amending Annex
检测要求 : II to Directive 2011/65/EU, to determine:

根据客户要求, 依据欧盟 RoHS 指令 2011/65/EU 附录 II 的修订指令(EU) 2015/863,
检测以下项目:

- 1) the content of Lead(Pb), Cadmium (Cd) and Mercury(Hg) in the submitted sample;
样品中的铅(Pb), 镉(Cd)和汞(Hg)的含量;
- 2) the content of Hexavalent Chromium(Cr(VI)) in the submitted sample;
样品中的六价铬(Cr(VI))的含量;
- 3) the content of Polybrominated Biphenyls(PBBs) and Polybrominated Diphenyl Ethers(PBDEs) in the submitted sample;
样品中的多溴联苯(PBBs)以及多溴二苯醚(PBDEs)的含量;
- 4) the content of Bis(2-ethylhexyl)phthalate(DEHP), Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP), and Diisobutyl phthalate(DIBP) in the submitted sample.
样品中的邻苯二甲酸二(2-乙基己)酯(DEHP)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁苯酯(BBP)和邻苯二甲酸二异丁酯(DIBP)的含量。

Test Results : Please refer to next page (s).
检测结果 : 请参看随后页面。



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Executive Summary:
执行测试总结:

STANDARD 标准	CONCLUSION 结论
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU 欧盟 RoHS 指令 2011/65/EU 附录 II 的修订指令(EU) 2015/863	PASS 合格



Prepared by: Grace
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Assistant engineer

Reviewed by: Ethan
Sun Wei, Ethan
Technical supervisor

Signed for and on behalf of
EMTEK(Guangzhou) Co., Ltd.

Approved by: Jay Yu
Yu Chunhua, Jay Yu
检验检测专用章
Authorized signatory
Jun. 21, 2024

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Sample List:

样品清单:

No. 序号	Sample Number 样品编号	Sample Name 样品名称
1	E2406140140-01	Chip 芯片

Test Sample List:

检测样品清单:

No. 序号	Sample Description 样品描述
1.1	Chip-black solid 芯片-黑色固体
1.2	Pin-silvery metal 引脚-银色金属

Test Results:

检测结果:

Metal:

金属:

Test Method:

检测方法:

- 1) to refer to IEC 62321-5:2013, determine the Lead, Cadmium content by ICP-OES.
参照 IEC 62321-5:2013, 用 ICP-OES 测定铅、镉的含量。
- 2) to refer to IEC 62321-4:2013+A1:2017, determine the Mercury content by ICP-OES.
参照 IEC 62321-4:2013+A1:2017, 用 ICP-OES 测定汞的含量。
- 3) to refer to IEC 62321-7-1:2015, determine the Hexavalent Chromium content by UV-Vis.
参照 IEC 62321-7-1:2015, 用 UV-Vis 测定六价铬的含量。

Analyte 被分析物	Unit 单位	Test Result 测试结果	MDL	Limit 限值
		1.2		
Lead (Pb) 铅 (Pb)	mg/kg	ND	2	1000
Cadmium (Cd) 镉 (Cd)	mg/kg	ND	2	100
Mercury (Hg) 汞 (Hg)	mg/kg	ND	2	1000
Hexavalent Chromium (Cr(VI))# 六价铬 (Cr(VI))#	µg/cm ²	ND	0.10	---

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Note:
备注:

- (1). mg/kg = milligram per kilogram = ppm $\mu\text{g}/\text{cm}^2$ = microgram per square centimeter
mg/kg = 毫克/千克 = 百万分之一 $\mu\text{g}/\text{cm}^2$ = 微克/平方厘米
MDL = Method Detection Limit ND = Not Detected (Less than MDL)
MDL = 方法检测限 ND = 未检测到 (小于 MDL)
- (2). “#”=
- 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).
当六价铬结果大于 $0.13\mu\text{g}/\text{cm}^2$ ，表示样品镀层含有六价铬。
 - The sample is negative for Cr(VI) if the Cr(VI) concentration is ND (concentration less than $0.10\mu\text{g}/\text{cm}^2$). The sample is considered a non-Cr(VI) based coating.
当六价铬结果为 ND(浓度小于 $0.10\mu\text{g}/\text{cm}^2$)，表示样品镀层不含有六价铬。
 - 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.
当六价铬结果介于 0.10 及 $0.13\mu\text{g}/\text{cm}^2$ 时，无法确定镀层是否含有六价铬。
- (3). Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been digested thoroughly.
对于测试铅、镉、汞的样品已完全消解。

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Test Results:

检测结果:

Non-metal:

非金属:

Test Method:

检测方法:

- 1) to refer to IEC 62321-5:2013, determine the Lead, Cadmium content by ICP-OES.
参照 IEC 62321-5:2013, 用 ICP-OES 测定铅、镉的含量。
- 2) to refer to IEC 62321-4:2013+A1:2017, determine the Mercury content by ICP-OES.
参照 IEC 62321-4:2013+A1:2017, 用 ICP-OES 测定汞的含量。
- 3) to refer to IEC 62321-7-2:2017, determine the Hexavalent Chromium content by UV-Vis.
参照 IEC 62321-7-2:2017, 用 UV-Vis 测定六价铬的含量。
- 4) to refer to IEC 62321-6:2015, determine the Polybrominated Biphenyls(PBBs) and Polybrominated Diphenyl Ethers(PBDEs) by GC-MS.
参照 IEC 62321-6:2015, 用 GC-MS 测定多溴联苯(PBBs)和多溴二苯醚(PBDEs)的含量。
- 5) to refer to IEC 62321-8:2017, determine the Bis(2-ethylhexyl)phthalate (DEHP), Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP) and Diisobutyl phthalate(DIBP) by GC-MS.
参照 IEC 62321-8:2017, 用 GC-MS 测定邻苯二甲酸二(2-乙基己)酯(DEHP)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁苄酯(BBP)和邻苯二甲酸二异丁酯(DIBP)的含量。

Analyte 被分析物	Test Result (mg/kg) 检测结果	MDL (mg/kg)	Limit 限值 (mg/kg)
	1.1		
Lead (Pb) 铅 (Pb)	ND	2	1000
Cadmium (Cd) 镉 (Cd)	ND	2	100
Mercury (Hg) 汞 (Hg)	ND	2	1000
Hexavalent Chromium (Cr(VI)) 六价铬 (Cr(VI))	ND	8	1000
Polybrominated Biphenyls(PBBs) 多溴联苯(PBBs)	ND	--	1000
Monobromobiphenyl 一溴联苯	ND	5	--
Dibromobiphenyl 二溴联苯	ND	5	--
Tribromobiphenyl 三溴联苯	ND	5	--
Tetrabromobiphenyl 四溴联苯	ND	5	--
Pentabromobiphenyl 五溴联苯	ND	5	--
Hexabromobiphenyl 六溴联苯	ND	5	--

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Analyte 被分析物	Test Result (mg/kg) 检测结果	MDL (mg/kg)	Limit 限值 (mg/kg)
	1.1		
Heptabromobiphenyl 七溴联苯	ND	5	--
Octabromobiphenyl 八溴联苯	ND	5	--
Nonabromobiphenyl 九溴联苯	ND	5	--
Decabromobiphenyl 十溴联苯	ND	5	--
Polybrominated Diphenylethers (PBDEs) 多溴二苯醚(PBDEs)	ND	--	1000
Monobromodiphenyl ether 一溴二苯醚	ND	5	--
Dibromodiphenyl ether 二溴二苯醚	ND	5	--
Tribromodiphenyl ether 三溴二苯醚	ND	5	--
Tetrabromodiphenyl ether 四溴二苯醚	ND	5	--
Pentabromodiphenyl ether 五溴二苯醚	ND	5	--
Hexabromodiphenyl ether 六溴二苯醚	ND	5	--
Heptabromodiphenyl ether 七溴二苯醚	ND	5	--
Octabromodiphenyl ether 八溴二苯醚	ND	5	--
Nonabromodiphenyl ether 九溴二苯醚	ND	5	--
Decabromodiphenyl ether 十溴二苯醚	ND	5	--
Bis(2-ethylhexyl)phthalate(DEHP) 邻苯二甲酸二(2-乙基己)酯(DEHP)	ND	30	1000
Dibutyl phthalate(DBP) 邻苯二甲酸二丁酯 (DBP)	ND	30	1000
Benzylbutyl phthalate(BBP) 邻苯二甲酸丁苄酯 (BBP)	ND	30	1000
Diisobutyl phthalate (DIBP) 邻苯二甲酸二异丁酯(DIBP)	ND	30	1000

Note: (1). mg/kg = milligram per kilogram = ppm
备注: mg/kg = 毫克/千克 = 百万分之一
ND = Not Detected (Less than MDL)
ND = 未检测到 (小于 MDL)

MDL = Method Detection Limit
MDL = 方法检测限

(2). Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been digested thoroughly.
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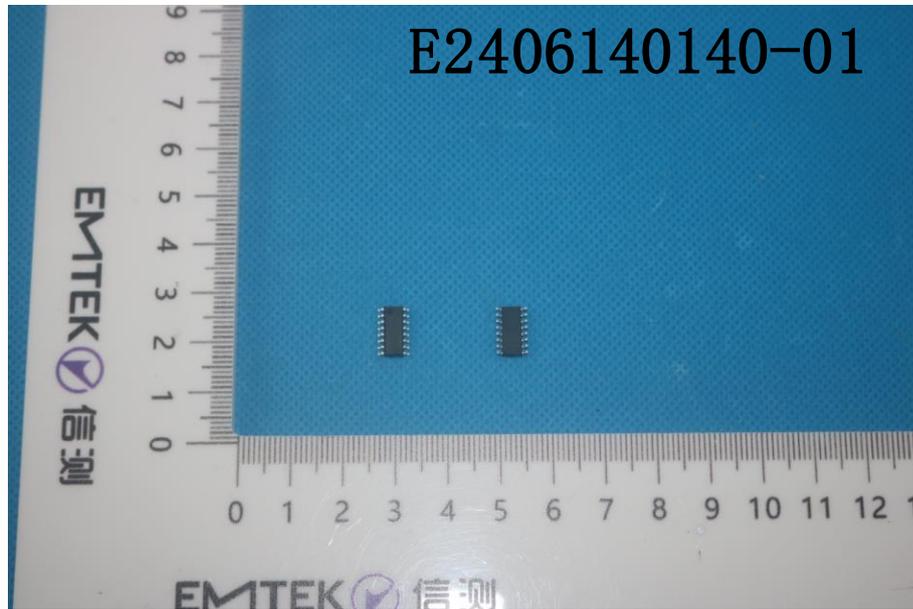
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Sample Photo:
样品照片:



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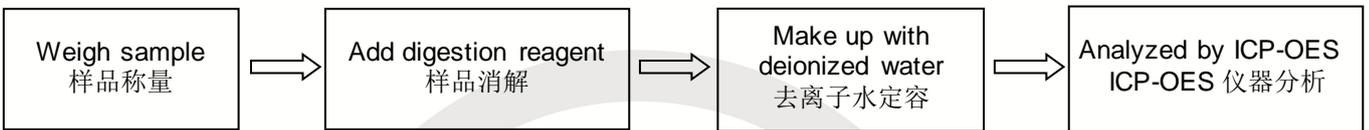
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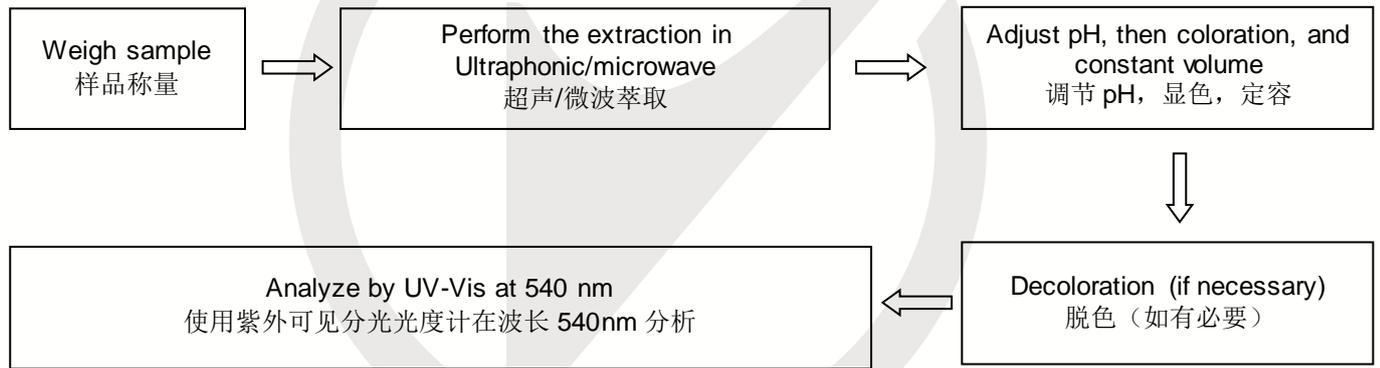
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Test Flowchart:
检测流程图:

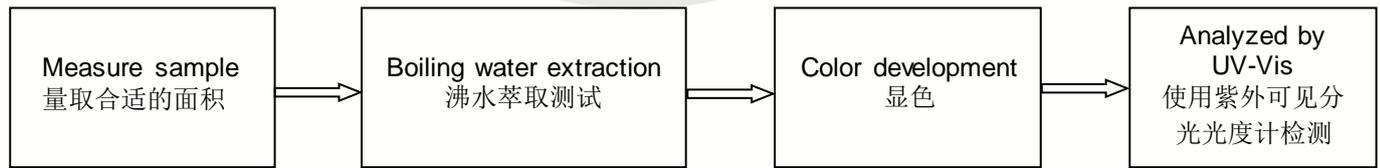
Pb/Cd/Hg Test Process :
Pb/Cd/Hg 检测流程:



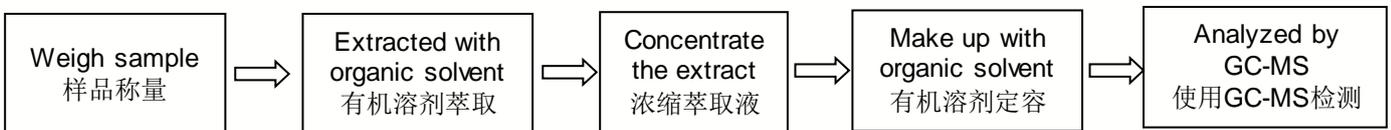
Cr(VI) Test Process(Non-metal):
Cr(VI) 检测流程(非金属):



Cr (VI) Test Process(Metal):
Cr(VI) 检测流程 (金属):



PBBs & PBDEs Test Process:
PBBs & PBDEs 检测流程:



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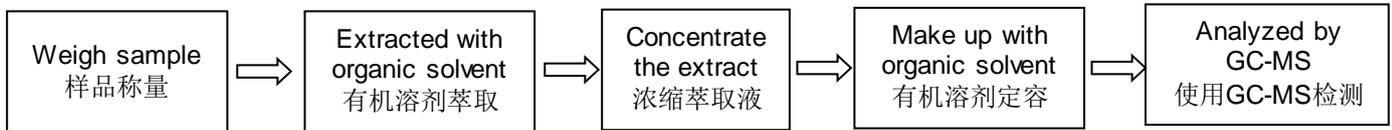
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DEHP, DBP, BBP, DIBP Test Process:
DEHP, DBP, BBP 和 DIBP 检测流程:



*** End of Report ***
*** 报告结束 ***

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- 1.本检测报告首页所列信息中除样品来源、接样日期、检测日期、检测结果和检测结论外，均由委托方提供，委托方对样品的代表性和资料的真实性负责，本实验室不承担任何相关责任。
The information as listed on the first page of this test report was all provided by the client except the sample from, date received, test period, test results and test conclusion. The client shall be responsible for the representativeness of sample and authenticity of materials, for which EMTEK shall bear no responsibilities.
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Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. 如因使用本公司中心任何报告内的资料，或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害，本公司概不负责。
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7. 若需要在法院审理程序或者仲裁过程中使用测试报告，客户必须在提交测试样品前将该意图告知本公司。
Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的，检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限，数据和信息将被处理掉。任何情况下，本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害，本公司在任何情况下也不必承担任何损害，包括（但不限于）补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权（包括疏忽）、产品责任或其他原因的惩罚性损害。
Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

