



报告编号 A2230361022101001E
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报告抬头公司名称 深圳市宏联电路有限公司
Company Name SHENZHEN HONLYNN CIRCUIT CO.,LTD
shown on Report
地 址 深圳市宝安区沙井街道新和路沙一北方永发科技园18栋
Address 1/2 FL 18 BLDG.SHAYIBEIFANGYONGFA SCIENCEPARK XINHE RD.SHAJING
ST.BAOAN DISTRICT SHENZHEN

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 PCB
Sample Name PCB
样品接收日期 2023.07.20
Sample Received Date Jul. 20, 2023
样品检测日期 2023.07.20-2023.07.24
Testing Period Jul. 20, 2023 to Jul. 24, 2023

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).



郑晴涛

郑晴涛

技术经理 Technical Manager

日 期
Date

2023.07.24

No. R262621351

广东省深圳市宝安区新安街道兴东社区华测检测大楼

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

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

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结论 Conclusion

| 测试样品 Tested Sample | 依据标准/指令 According to standard/directive | 结果 Result |
|--------------------------|---|--------------|
| 提交样品 Submitted Sample | 欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863 RoHS Directive 2011/65/EU with amendment (EU) 2015/863 | 符合 PASS |

符合表示检测结果满足欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863要求的限值。
PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

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检测依据 Test Method

| 测试项目 Test 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 62321-7-2:2017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 62321-6:2015 | GC-MS |
| 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs) | IEC 62321-6:2015 | GC-MS |
| 邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP) | IEC 62321-8:2017 | 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 | 限值 Limit |
|----------------------------------|-----------|-----------|------------|
| | 001 | | |
| 铅 Lead (Pb) | N.D. | 2 mg/kg | 1000 mg/kg |
| 镉 Cadmium (Cd) | N.D. | 2 mg/kg | 100 mg/kg |
| 汞 Mercury (Hg) | N.D. | 2 mg/kg | 1000 mg/kg |
| 六价铬 Hexavalent Chromium (Cr(VI)) | N.D. | 8 mg/kg | 1000 mg/kg |

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL | 限值 Limit |
|---|-----------|-----------|------------|
| | 001 | | |
| 多溴联苯 Polybrominated Biphenyls (PBBs) | | | |
| 一溴联苯 Monobromobiphenyl | N.D. | 5 mg/kg | 1000 mg/kg |
| 二溴联苯 Dibromobiphenyl | N.D. | 5 mg/kg | |
| 三溴联苯 Tribromobiphenyl | N.D. | 5 mg/kg | |
| 四溴联苯 Tetrabromobiphenyl | N.D. | 5 mg/kg | |
| 五溴联苯 Pentabromobiphenyl | N.D. | 5 mg/kg | |
| 六溴联苯 Hexabromobiphenyl | N.D. | 5 mg/kg | |
| 七溴联苯 Heptabromobiphenyl | N.D. | 5 mg/kg | |
| 八溴联苯 Octabromobiphenyl | N.D. | 5 mg/kg | |
| 九溴联苯 Nonabromobiphenyl | N.D. | 5 mg/kg | |
| 十溴联苯 Decabromobiphenyl | N.D. | 5 mg/kg | |

| 测试项目 Tested Item(s) | 结果 Result | 方法检出限 MDL | 限值 Limit |
|---|-----------|-----------|------------|
| | 001 | | |
| 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs) | | | |
| 一溴二苯醚 Monobromodiphenyl ether | N.D. | 5 mg/kg | 1000 mg/kg |
| 二溴二苯醚 Dibromodiphenyl ether | N.D. | 5 mg/kg | |
| 三溴二苯醚 Tribromodiphenyl ether | N.D. | 5 mg/kg | |
| 四溴二苯醚 Tetrabromodiphenyl ether | N.D. | 5 mg/kg | |
| 五溴二苯醚 Pentabromodiphenyl ether | N.D. | 5 mg/kg | |
| 六溴二苯醚 Hexabromodiphenyl ether | N.D. | 5 mg/kg | |
| 七溴二苯醚 Heptabromodiphenyl ether | N.D. | 5 mg/kg | |
| 八溴二苯醚 Octabromodiphenyl ether | N.D. | 5 mg/kg | |
| 九溴二苯醚 Nonabromodiphenyl ether | N.D. | 5 mg/kg | |
| 十溴二苯醚 Decabromodiphenyl ether | N.D. | 5 mg/kg | |

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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 | 限值 Limit |
|--|-----------|-----------|------------|
| | 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 | 1000 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 | 1000 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 | 1000 mg/kg |
| 邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5 | N.D. | 50 mg/kg | 1000 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 | PCB (整体测试) PCB (Tested as a whole) |

备注: 对于检测铅, 镉, 汞之样品已消解完全。
 -按照目前手段, 样品无法进一步拆分, 样品整体测试, 测试结果不代表整体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)
 -mg/kg = ppm = 百万分之一
 -1000 mg/kg = 0.1%

Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.
 -MDL = Method Detection Limit
 -N.D. = Not Detected (<MDL)
 -mg/kg = ppm = parts per million
 -1000 mg/kg = 0.1%

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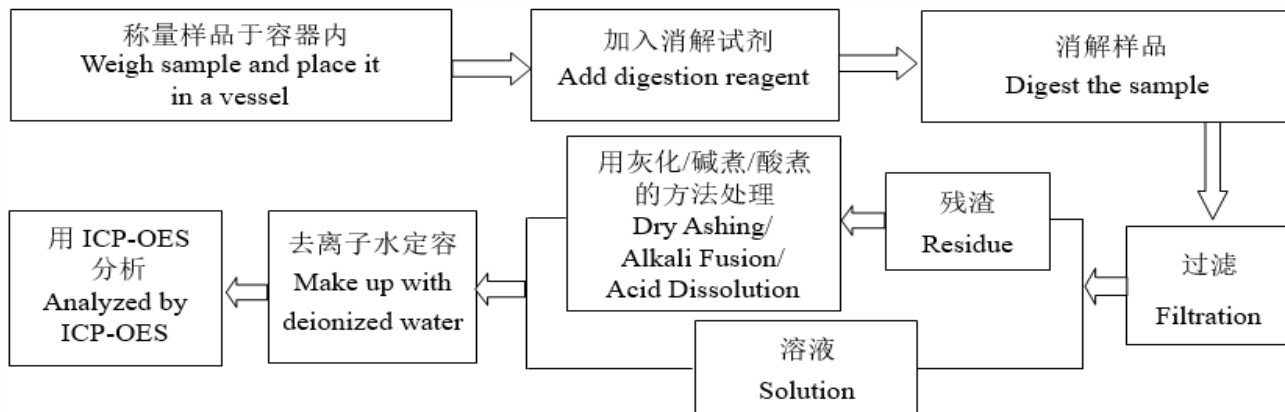
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检测流程 Test Process

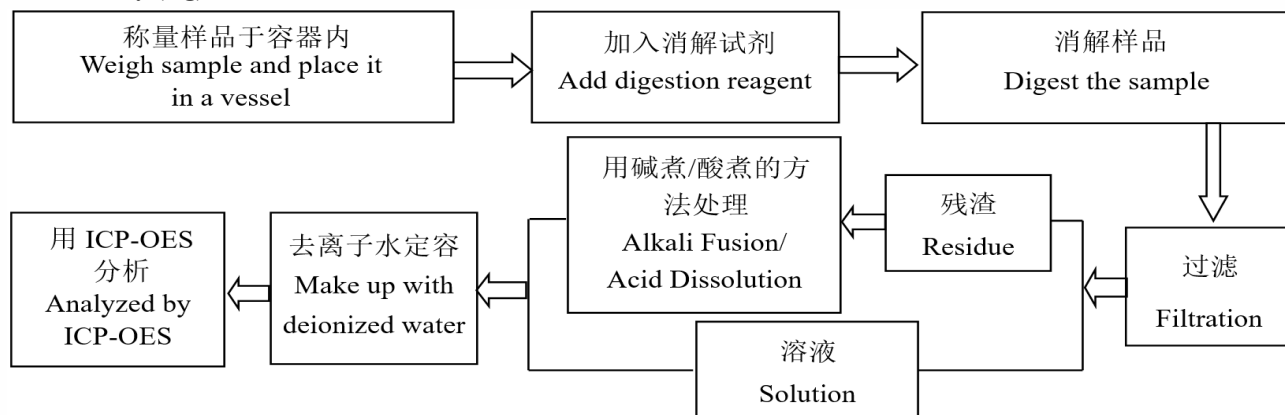
1. 铅(Pb), 镉(Cd), 铬(Cr)

Lead (Pb), Cadmium (Cd), Chromium (Cr)



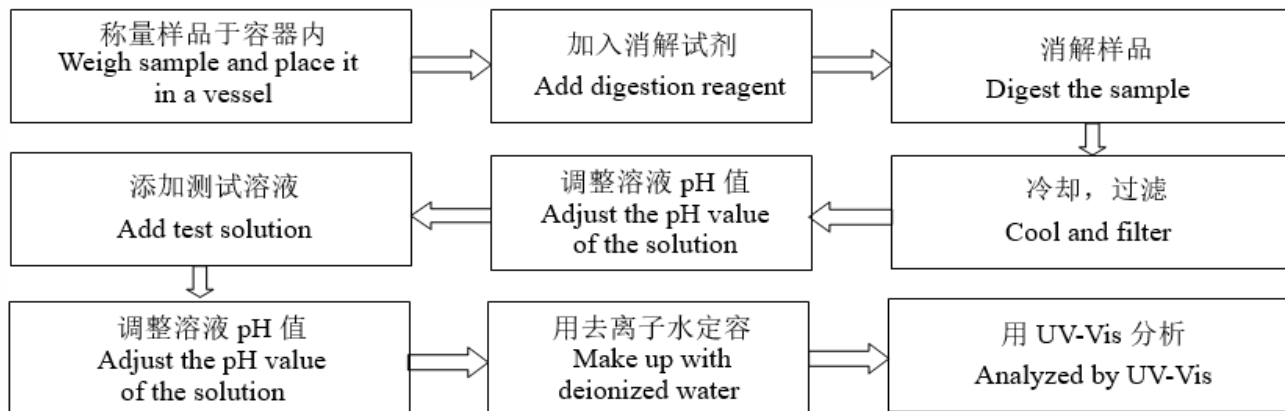
2. 汞(Hg)

Mercury (Hg)



3. 六价铬(Cr(VI))

Hexavalent Chromium (Cr(VI))



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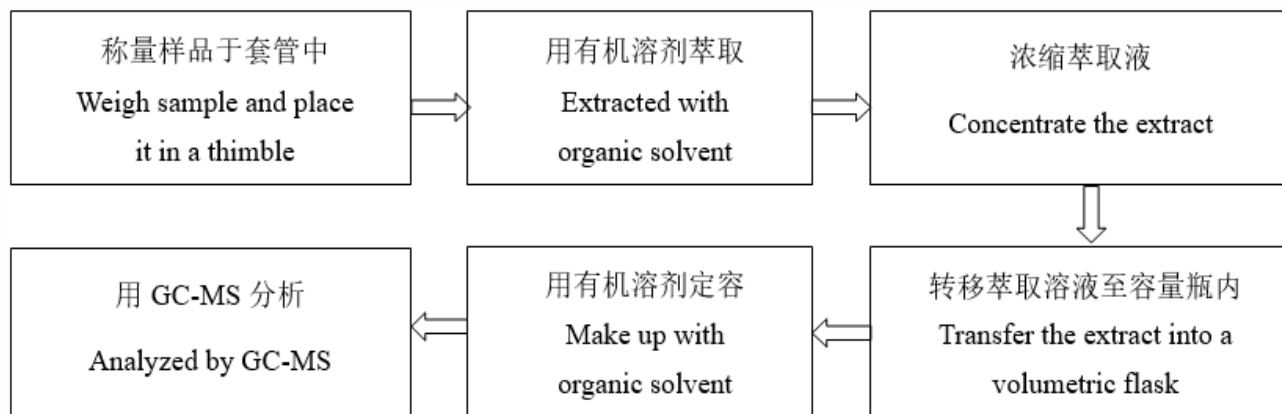
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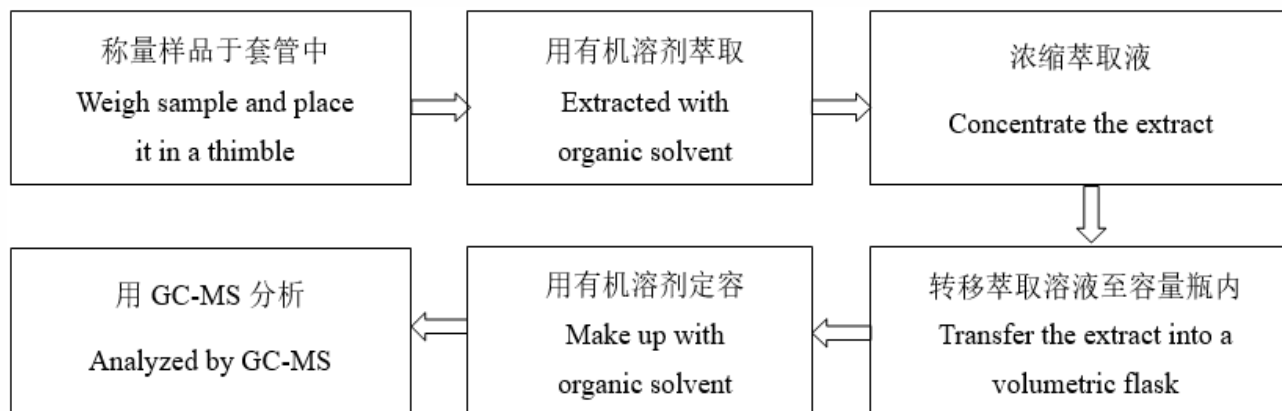
4. 多溴联苯(PBBs), 多溴二苯醚(PBDEs)

Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. 邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)

Phthalates (DBP, BBP, DEHP, DIBP)

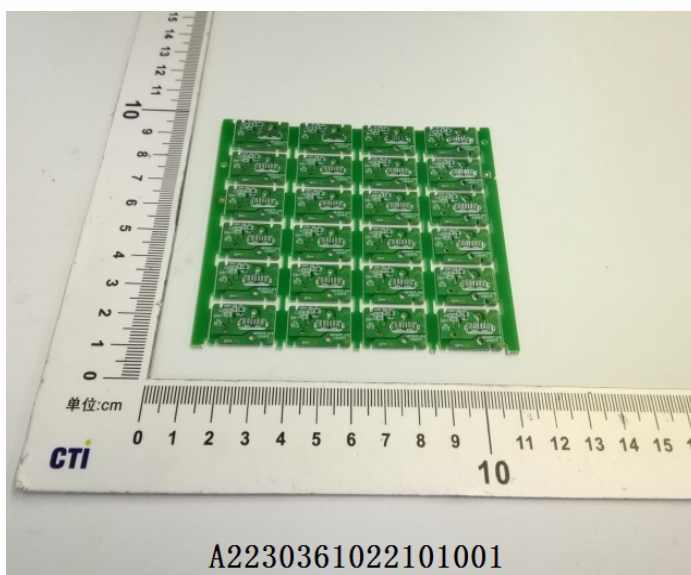


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样品图片 Photo(s) of the sample(s)



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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;
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报告结束

*** End of report ***