

测试报告(Test Report)

报告编号(Report No.): A001R20170905019-3

日期(Date): 2017/09/08

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申请单位: 惠州市浩嘉兴实业有限公司
Applicant: HUI ZHOU HAO JIA XING INDUSTRY CO.,LTD
单位地址: 广东省惠州市仲恺高新区潼侨镇宏村宏川路 31 号
Address: uizhou,Guangdong Zhongkai High-tech Zone Hongchuan Hongcun Tongqiao Town Road31

样品信息(Report on the submitted samples said to be):

样品名称(Sample Name): PCB
型号(Model): 1SET
批号(Item No.): 3
制造商(Manufacturers): 惠州市浩嘉兴实业有限公司
HUI ZHOU HAO JIA XING INDUSTRY CO.,LTD
地址(Address): 广东省惠州市仲恺高新区潼侨镇宏村宏川路 31 号
uizhou,Guangdong Zhongkai High-tech Zone Hongchuan Hongcun Tongqiao Town Road31
申请日期(Sample Receiving Date): 2017/09/05
测试周期(Testing Period): 2017/09/05 – 2017/09/08

测试要求(Test Requested):

根据客户要求, 依据欧盟议会和欧盟理事会第 2011/65/EU(RoHS)号指令及修正案(EU) 2015/863 的要求对送检样品中铅、镉、汞、六价铬、多溴联苯、多溴二苯醚、DBP、BBP、DEHP、DIBP 的含量进行判定。
(As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863.)

测试方法(Test Method):

请参见下一页。Please refer to next page(s).

测试结果(Test Result):

请参见下一页。Please refer to next page(s).

Tested by: Luoxiao

主检: 罗晓(Luoxiao)

测试工程师(Test Engineer)

Reviewed by: Leon

主审: 苏宏亮(Leon)

测试组长(Test Team Leader)

Approved by: Jason

签发: 蒋云程(Jason)

实验室经理(Laboratory Manager)



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测试结果(Test Result(s)):

 1、铅、镉、汞、六价铬的含量(For the Pb, Cd, Hg, Cr⁶⁺ content)

单位(Unit): mg/kg

测试项目 Test item(s)	测试方法/仪器 Test Method/ Equipment	方法检出限 MDL	结果 Result(s)	限值 Limit
			1	
镉 Cadmium (Cd)	参照(Refer to) IEC 62321-5:2013 ICP-OES	2	N.D.	100
铅 Lead (Pb)		2	7	1000
汞 Mercury (Hg)	参照(Refer to) IEC 62321-4:2013 ICP-OES	2	N.D.	1000
六价铬 Hexavalent Chromium (Cr ⁶⁺)	参照(Refer to) IEC 62321-7-2:2017 UV-Vis	1	N.D.	1000
结论(Conclusion)	/	/	合格 (Pass)	/

备注(Note)

1. MDL=Method Detection Limit 方法检出限;
2. N.D.=Not Detected(less than method detection limit), 未检出 (小于方法检出限);
3. The specimen is tested as a whole (part) which according to the applicant's request.
根据客户要求, 对送检样品进行整体测试。

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2、多溴联苯、多溴二苯醚的含量(For the PBBs, PBDEs content)

单位(Unit): mg/kg

测试项目 Test item(s)	测试方法/仪器 Test Method/ Equipment	方法检出限 MDL	结果 Result(s)	限值 Limit
			1	
一溴联苯 Mono-bromobiphenyl	参照(Refer to) IEC 62321-6:2015 GC-MS	5	N.D.	—
二溴联苯 Di-bromobiphenyl		5	N.D.	
三溴联苯 Tri-bromobiphenyl		5	N.D.	
四溴联苯 Tetra-bromobiphenyl		5	N.D.	
五溴联苯 Penta-bromobiphenyl		5	N.D.	
六溴联苯 Hexa-bromobiphenyl		5	N.D.	
七溴联苯 Hepta-bromobiphenyl		5	N.D.	
八溴联苯 Octa-bromobiphenyl		5	N.D.	
九溴联苯 Nona-bromobiphenyl		5	N.D.	
十溴联苯 Deca-bromobiphenyl		5	N.D.	
多溴联苯 (PBBs) Polybrominated Biphenyls		—	N.D.	1000
一溴二苯醚 Mono-bromodiphenyl ether		5	N.D.	—
二溴二苯醚 Di-bromodiphenyl ether		5	N.D.	
三溴二苯醚 Tri-bromodiphenyl ether		5	N.D.	
四溴二苯醚 Tetra-bromodiphenyl ether		5	N.D.	
五溴二苯醚 Penta-bromodiphenyl ether		5	N.D.	
六溴二苯醚 Hexa-bromodiphenyl ether		5	N.D.	
七溴二苯醚 Hepta-bromodiphenyl ether		5	N.D.	
八溴二苯醚 Octa-bromodiphenyl ether		5	N.D.	
九溴二苯醚 Nona-bromodiphenyl ether		5	N.D.	
十溴二苯醚 Deca-bromodiphenyl ether		5	N.D.	
多溴二苯醚 (PBDEs) Polybrominated Diphenyl Ethers		—	N.D.	1000
结论(Conclusion)		/	合格(Pass)	/

备注(Note): 1. MDL=Method Detection Limit 方法检出限;

2. N.D.=Not Detected(less than method detection limit), 未检出 (小于方法检出限);

3. “—”=Not regulated 无规定

4. The specimen is tested as a whole (part) which according to the applicant's request.

根据客户要求, 对送检样品进行整体测试。

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3、DBP, BBP, DEHP, DIBP 的含量 (For DBP, BBP, DEHP, DIBP content)

单位(Unit): mg/kg

测试项目 Test Item(s)	测试方法/仪器 Test Method/ Equipment	方法检 出限 MDL	结果 Result(s)	限值 Limit
			1	
邻苯二甲酸二(2-乙基己基)酯 Di-(2-ethylhexyl) Phthalate (DEHP)	参照(Refer to) IEC 62321-8:2017 GC-MS	100	N.D.	1000
邻苯二甲酸二正丁酯 Dibutyl phthalate (DBP)		100	N.D.	1000
邻苯二甲酸丁苄酯 Butylbenzyl phthalate (BBP)		100	N.D.	1000
邻苯二甲酸二异丁酯 Di-iso-butyl phthalate (DIBP)		100	N.D.	1000
结论(Conclusion)		/	合格(Pass)	/

备注(Note)

1. MDL=Method Detection Limit 方法检出限;
2. N.D.=Not Detected(less than method detection limit), 未检出 (小于方法检出限);
3. The specimen is tested as a whole (part) which according to the applicant's request.
根据客户要求, 对送检样品进行整体测试。

样品描述(Sample Description)

1	PCB 板 / PCB board
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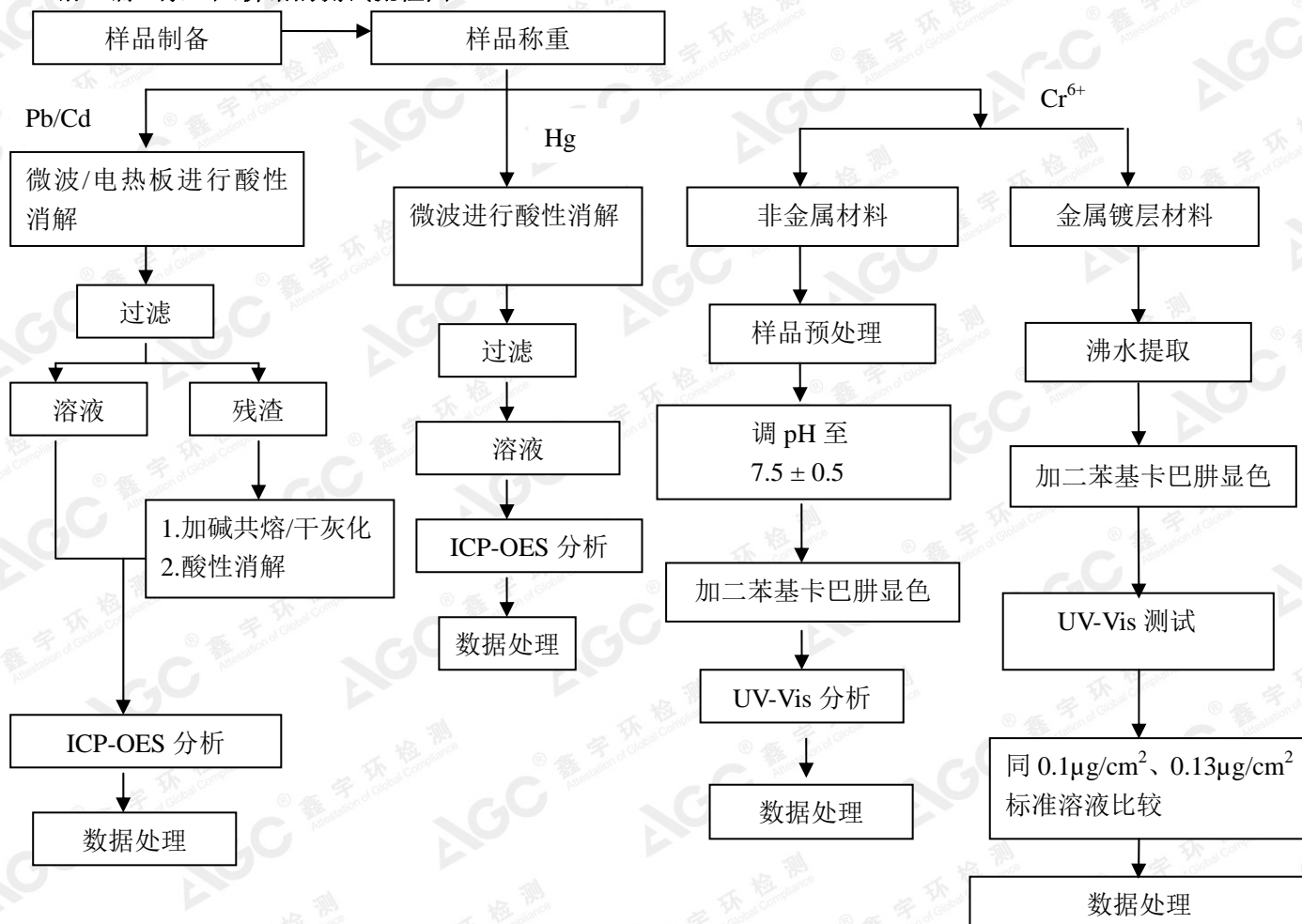
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测试流程图 (Test Flow Chart)

1. 铅、镉、汞、六价铬的测试流程图



根据以上的流程图之条件, 样品已经完全溶解 (六价铬测试方法除外)。

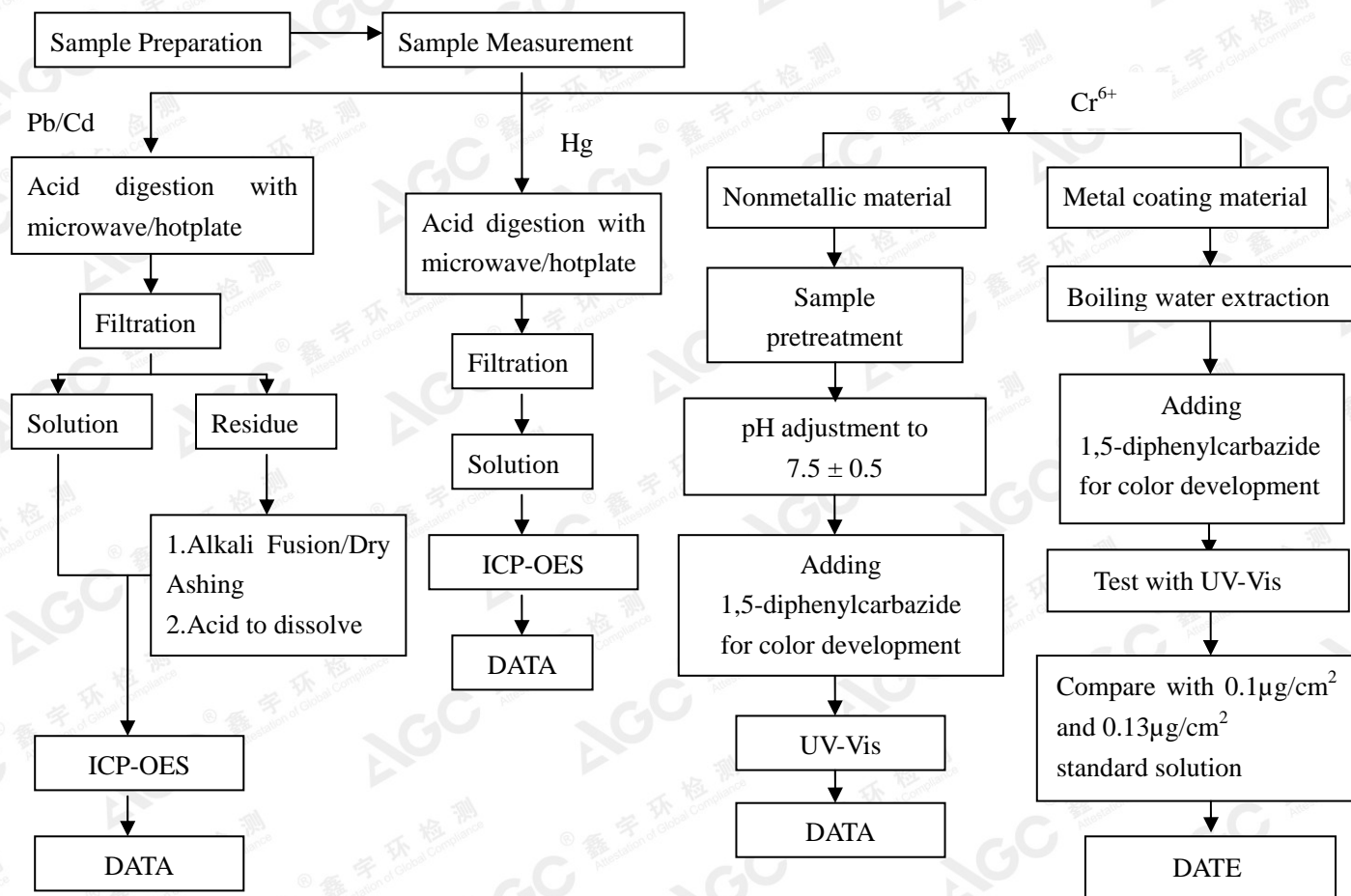
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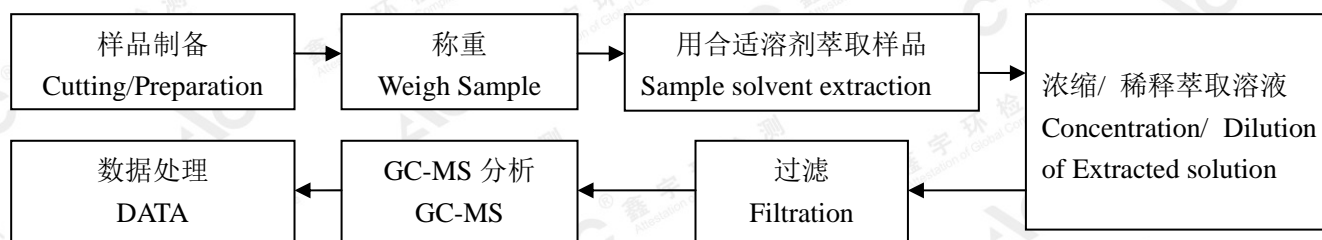
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1. For Pb, Cd, Hg, Cr⁶⁺



These sample were dissolved totally by pre-conditioning method according to above flow chart (Cr⁶⁺ test method excluded)

2. PBBs, PBDEs, DBP, BBP, DEHP 和DIBP的测试流程图(The Test Flow Chart of PBBs, PBDEs, DBP, BBP, DEHP and DIBP)



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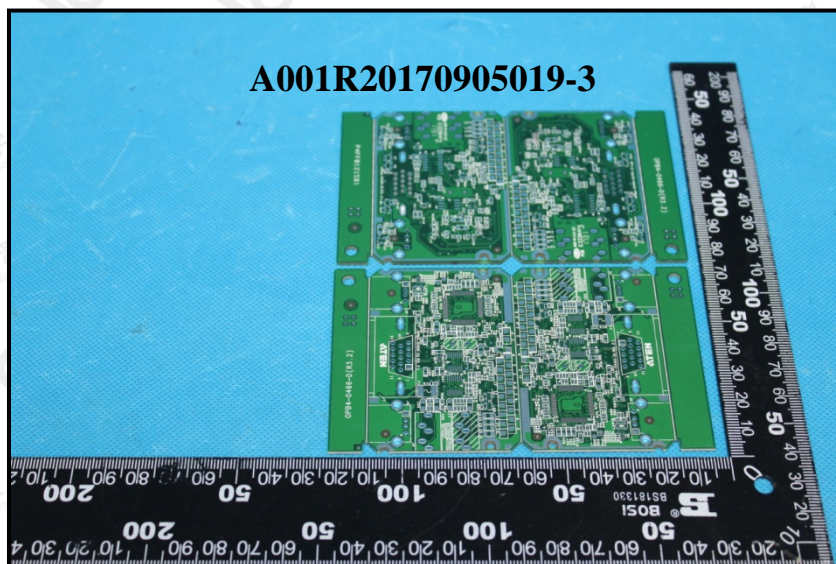
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样品附图 (The photo of the sample)



AGC authenticate the photo on original report only

此图片仅限于随 AGC 正本报告使用

*** End of Report ***

*** 报告结束 ***

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