



测试报告 Test Report No.IQCN5CBC0406707D1 签发日期 Issued Date: 2022-05-27 第 1 页, 共 8 页 Page 1 of 8

委托单位 Applicant: 佳庚电子(昆山)有限公司 DRAGON ELECTRONIC (KUNSHAN) CO., LTD

委托单位地址 Address of applicant: 昆山市淀山湖镇曙光路 6 号 No.6 shuguang Road, Dianshanhu Town, Kunshan City

委托单位提供样品信息如下:

The following sample(s) was/were submitted and identified on behalf of the client as:

样品名称 Sample Name: PA 波纹管

描述 Describe: 黑色 Black

编号 Sample No.A-2

样品接收日期 Sample Received Date: 2022-05-19

样品测试日期 Testing Period: 2022-05-19~2022-05-27

参考要求: 依据客户要求, 参照欧盟 RoHS 指令 2011/65/EU 及其修订指令(EU)2015/863 中的要求, 检测样品中铅(Pb)、镉(Cd)、汞(Hg)、六价铬(Cr(VI))、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸苄基丁酯(BBP)、邻苯二甲酸二异丁酯(DIBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)的含量。

Test Requested: According to client's requirements, Refer to EU RoHS Directive 2011/65/EU and Amendment (EU)2015/863 to determine the content of Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenylethers(PBDEs), Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP), Diisobutyl phthalate(DIBP) and Bis(2-ethylhexyl)phthalate(DEHP) in the submitted sample.

测试依据 Test Methods: 请参见下页 Please refer to next page(s)

测试结果 Test Result: 请参见下页 Please refer to next page(s)

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查询密码 Code: XzMgNd2

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1、RoHS 2.0

测试方法: 参考 IEC 62321-5:2013, 采用 ICP-OES 测定铅(Pb)、镉(Cd);

IEC 62321-4:2013+AMD1:2017, 采用 ICP-OES 测定汞(Hg);

IEC 62321-7-2:2017, 采用 UV-VIS 测定非金属六价铬(Cr(VI));

IEC 62321-6:2015, 采用 GC-MS 测定多溴联苯(PBBs)、多溴二苯醚(PBDEs);

IEC 62321-8:2017, 采用 GC-MS 测定邻苯二甲酸二丁酯(DBP)、邻苯二甲酸苄基丁酯(BBP)、邻苯二甲酸二异丁酯(DIBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)

Test Methods: Refer to IEC 62321-5:2013, Determination of Pb and Cd by ICP-OES;

IEC 62321-4:2013+AMD1:2017, Determination of Hg by ICP-OES;

IEC 62321-7-2:2017, Determination of Non-metallic hexavalent chromium Cr(VI) by UV-VIS;

IEC 62321-6:2015, Determination of PBBs、PBDEs by GC-MS;

IEC 62321-8:2017, Determination of DBP、BBP、DIBP、DEHP by GC-MS

测试结果 Test Result:

测试项目 Test Item	单位 Unit	MDL	结果 Result	限值 Limit
			1	
铅 Lead (Pb)	mg/kg	2	N.D.	1000
镉 Cadmium (Cd)	mg/kg	2	N.D.	100
汞 Mercury (Hg)	mg/kg	2	N.D.	1000
六价铬 Hexavalent Chromium (Cr(VI))	mg/kg	8	N.D.	1000
多溴联苯之和 Sum of PBBs (PBBs)	mg/kg	---	N.D.	1000
单溴联苯 Bromobiphenyl	mg/kg	5	N.D.	---
二溴联苯 Dibromobiphenyl	mg/kg	5	N.D.	---
三溴联苯 Tribromobiphenyl	mg/kg	5	N.D.	---
四溴联苯 Tetrabromobiphenyl	mg/kg	5	N.D.	---
五溴联苯 Pentabromobiphenyl	mg/kg	5	N.D.	---
六溴联苯 Hexabromobiphenyl	mg/kg	5	N.D.	---
七溴联苯 Heptabromobiphenyl	mg/kg	5	N.D.	---
八溴联苯 Octabromobiphenyl	mg/kg	5	N.D.	---
九溴联苯 Nonabromobiphenyl	mg/kg	5	N.D.	---
十溴联苯 Decabromobiphenyl	mg/kg	5	N.D.	---
多溴二苯醚之和 Sum of PBDEs (PBDEs)	mg/kg	---	N.D.	1000
单溴二苯醚 Bromodiphenyl ether	mg/kg	5	N.D.	---
二溴二苯醚 Dibromodiphenyl ether	mg/kg	5	N.D.	---
三溴二苯醚 Tribromodiphenyl ether	mg/kg	5	N.D.	---
四溴二苯醚 Tetrabromodiphenyl ether	mg/kg	5	N.D.	---
五溴二苯醚 Pentabromodiphenyl ether	mg/kg	5	N.D.	---
六溴二苯醚 Hexabromodiphenyl ether	mg/kg	5	N.D.	---
七溴二苯醚 Heptabromodiphenyl ether	mg/kg	5	N.D.	---



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八溴二苯醚 Octabromodiphenyl ether	mg/kg	5	N.D.	---
九溴二苯醚 Nonabromodiphenyl ether	mg/kg	5	N.D.	---
十溴二苯醚 Decabromodiphenyl ether	mg/kg	5	N.D.	---
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)	mg/kg	50	N.D.	1000
邻苯二甲酸苄基丁酯 Benzylbutyl phthalate (BBP)	mg/kg	50	N.D.	1000
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	mg/kg	50	N.D.	1000
邻苯二甲酸二(2-乙基己基)酯 Bis(2-ethylhexyl)phthalate (DEHP)	mg/kg	50	N.D.	1000

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) N.D.= 未检出(<MDL)
- (3) MDL= 方法检出限
- (4) 样品的测试是基于申请人要求混合测试, 报告中的混合测试结果不代表其中个别单一材质的含量。
- (5) 样品点位描述:
 - 1、黑色塑料管混测

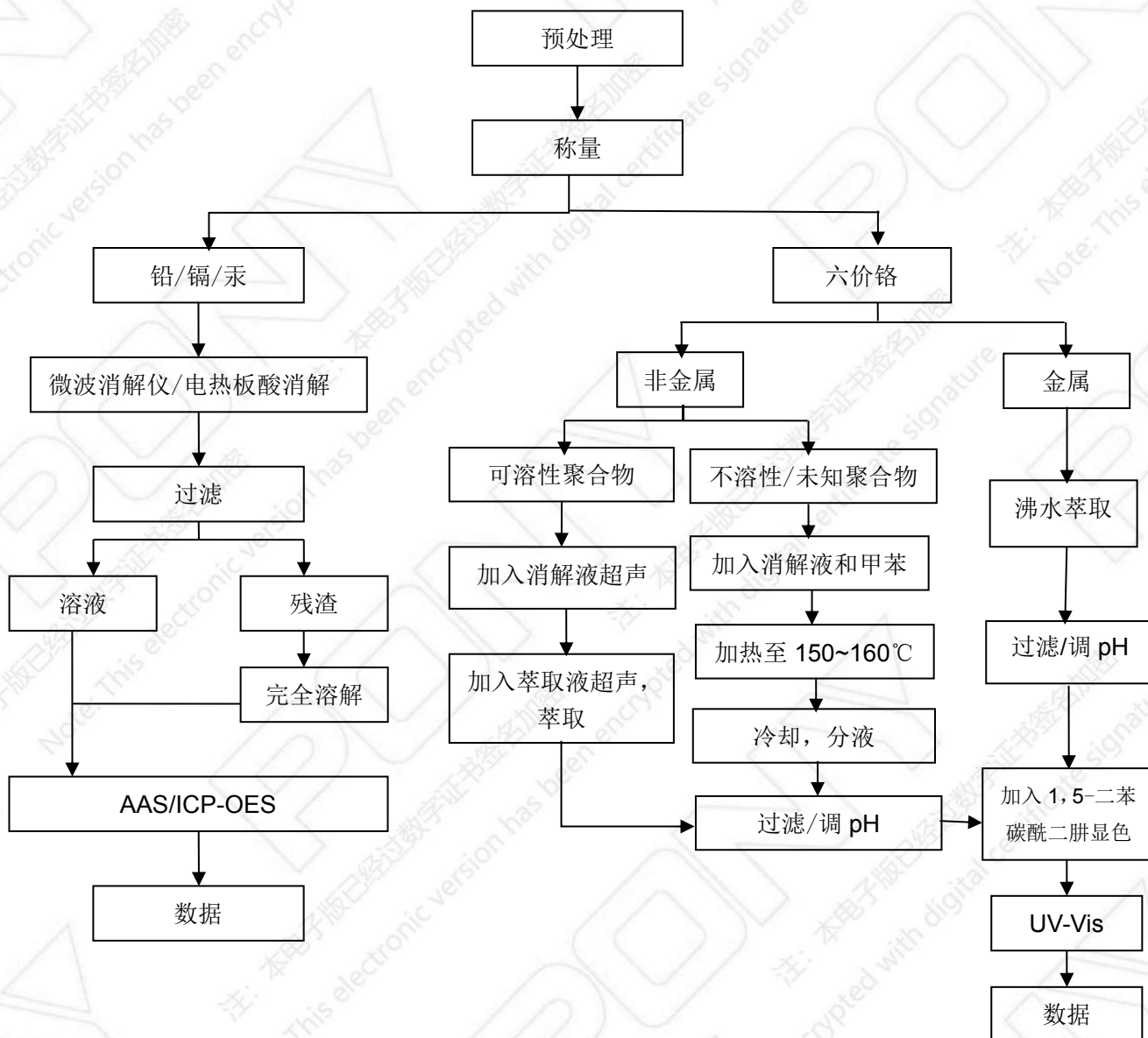
Note:

- (1) 1mg/kg = 1ppm= 0.0001%
- (2) N.D. = Not Detected (<MDL)
- (3) MDL = Method Detection Limit
- (4) The sample test is based on the applicant's request for a hybrid test, and the results of the mixed test in the report do not represent the content of a single material.
- (5) Sample point position description:
 - 1、Black plastic tube mixing test

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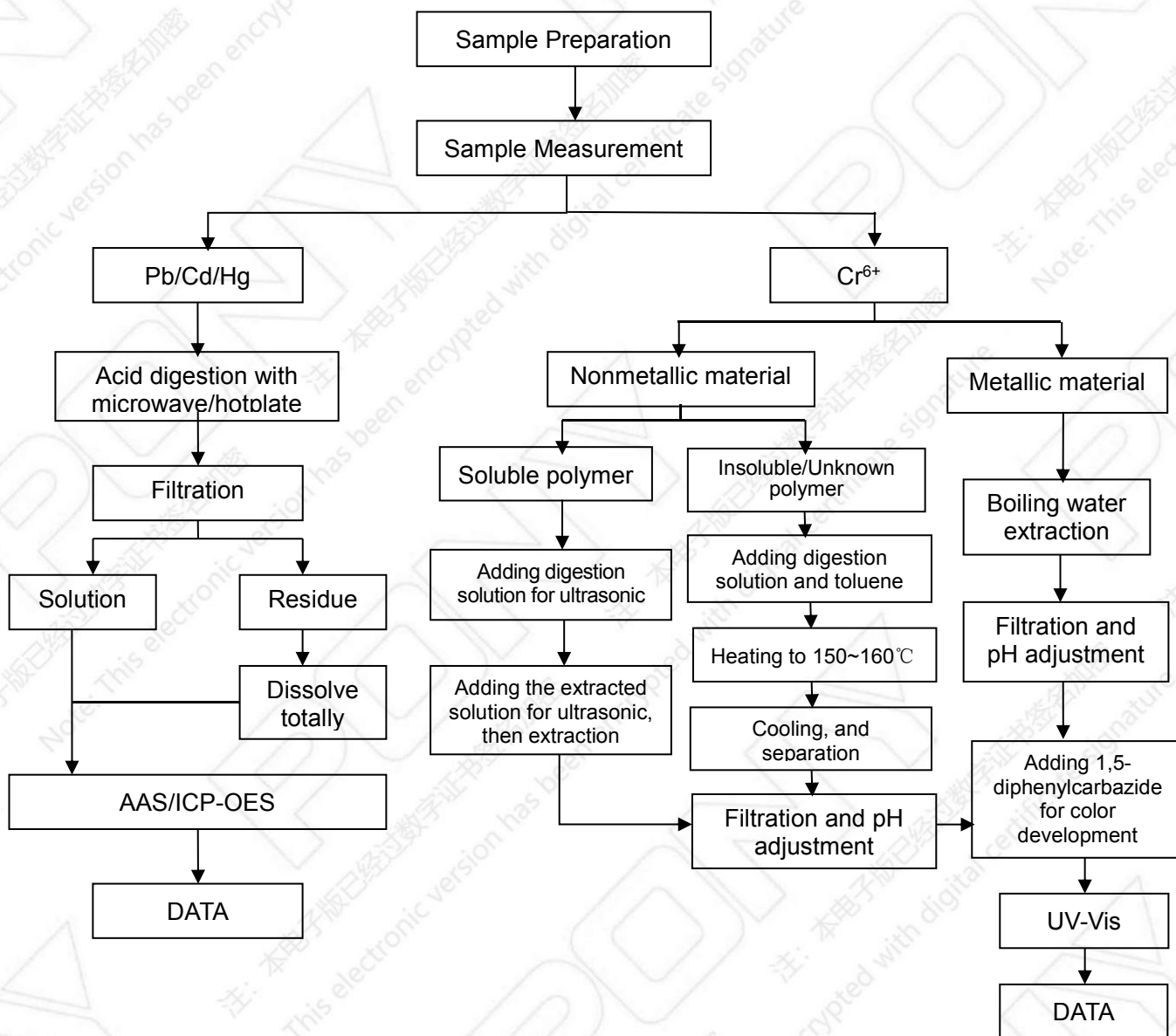
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样品铅、镉、汞、六价铬测试流程



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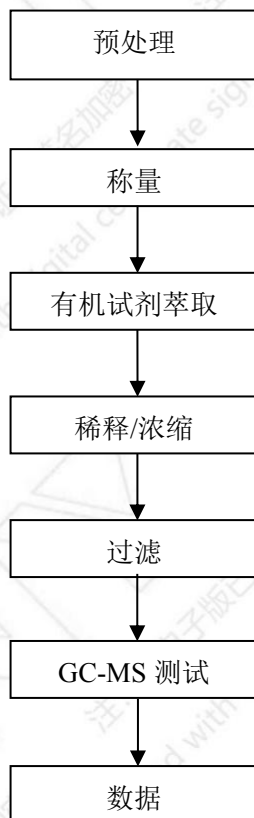
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Test procedure for lead, cadmium, mercury and hexavalent chromium



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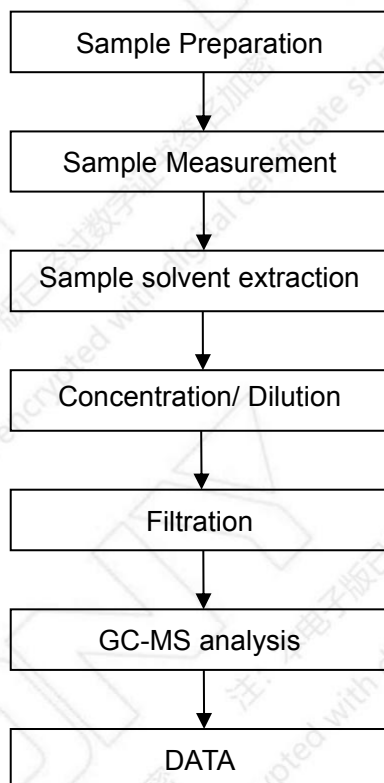
测试报告 Test Report No.IQCN5CBC0406707D1 签发日期 Issued Date: 2022-05-27 第 6 页, 共 8 页 Page 6 of 8
样品多溴联苯、多溴二苯醚、邻苯二甲酸酯测试流程



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Test procedure for polybrominated biphenyls, polybrominated diphenyl ethers, phthalates



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样品编号和照片 Sample No. &Photo:



仅对报告照片中的样品负责
Pony authenticate the photo on original report only
——报告结束——
——End of Report——