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检测
TESTING
CNAS L7472

TEST REPORT

检测报告



Report No./报告号: A2112058-C01-R02

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Applicant: Shenzhen Esun Industrial Co., Ltd.
申请商: 深圳光华伟业股份有限公司
Address: Wuhan University Building A403-I and A901, No.6 Yuexing 2 Road, Nanshan District, Shenzhen, China
地址: 深圳市南山区粤兴二道 6 号武汉大学深圳产学研大楼 A403-I 及 A901

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client/以下测试之样品及样品信息由申请者提供并确认:

Sample Name eCure
样品名称
Sample Received Date December 06, 2021
样品接收日期 2021 年 12 月 06 日
Testing Period December 06 - 14, 2021
检测日期 2021 年 12 月 06 日至 2021 年 12 月 14 日
Test Method & Test Result Please refer to following pages.
检测依据和检测结果 请参考下一页

Test Requested/检测要求

As specified by client, according to RoHS Directive 2011/65/EU with amendment (EU) 2015/863 to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP), Di-2-ethylhexyl phthalate(DEHP) and Diisobutyl phthalate(DIBP) in the tested materials of the submitted sample(s).

根据客户要求, 依据指令 2011/65/EU 及修订指令(EU) 2015/863 对所提交样品检测材料中的铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸二丁酯(DBP), 邻苯二甲酸丁基苄酯(BBP), 邻苯二甲酸二乙基己基酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)进行检测。

Result/结果

Pass /合格

Tested by:

主 检:

Anne Zhao

Approved by:

签 发:



Reviewed by:

审 核:

Tony Gmy

Date of issue:

签发日期:

December 15, 2021

2021年12月15日

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Test Method/检测依据

(1) XRF Screening limits for regulated elements according to IEC 62321-3-1:2013 (Unit:mg/kg)/
IEC 62321-3-1:2013 对管控元素的 XRF 筛选限值 (单位: mg/kg)

Element/ 测试元素	Polymers / 聚合物	Metals/ 金属	Composite material/ 合成材料
Pb	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X$ $< (1500+3\sigma) \leq OL$
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma)$ $\leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma)$ $\leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X$ $< (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	N/A	$BL \leq (250-3\sigma) < X$

(2) Chemical screening limits for Phthalates/邻苯二甲酸酯的筛选限值

Test Item(s)/ 测试项目	Screening limits(Unit: mg/kg) 筛选限值 (单位: mg/kg)
Dibutyl phthalate(DBP) 邻苯二甲酸二正丁酯(DBP)	$BL \leq 600 < IN$
Benzylbutyl phthalate(BBP) 邻苯二甲酸丁基苄酯(BBP)	$BL \leq 600 < IN$
Di-2-ethylhexyl phthalate(DEHP) 邻苯二甲酸二(2-乙基己基)酯(DEHP)	$BL \leq 600 < IN$
Diisobutyl phthalate(DIBP) 邻苯二甲酸二异丁酯(DIBP)	$BL \leq 600 < IN$

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(3). Chemical Test/化学测试

Tested Item(s) 测试项目	Test Method 测试方法	Measured Equipment(s) 测试仪器	MDL 方法检出限	Limit 限值
Lead (Pb) 铅(Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg	1000 mg/kg
Cadmium (Cd) 镉(Cd)	IEC 62321-5:2013	ICP-OES	2 mg/kg	100 mg/kg
Mercury (Hg) 汞(Hg)	IEC 62321-4: 2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI)) 六价铬(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5: 2013	UV-Vis	8 mg/kg	1000 mg/kg
	IEC 62321-7-1:2015		0.10µg/cm ² (LOQ)	1000 mg/kg
Polybrominated Biphenyls (PBBs) 多溴联苯(PBBs)	IEC 62321-6:2015	GC-MS	5mg/kg	1000 mg/kg
Polybrominated Diphenyl Ethers (PBDEs) 多溴二苯醚(PBDEs)	IEC 62321-6:2015	GC-MS	5mg/kg	1000 mg/kg
Phthalates/邻苯二甲酸酯 (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	50 mg/kg	单项 1000 mg/kg/ 1000 mg/kg for each

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Tested Material Description

测试材料描述

No. 序号	Description 描述	No. 序号	Description 材料描述
1	Hemp grey canvas of curing case/ 固化箱麻灰色帆布	21	IC
2	Grey cloth covering edge strip of curing case/ 固化箱灰色布包边条	22	IC
3	Grey suture of curing case/ 固化箱灰色缝线	23	IC
4	Gray magic sticker of case cover/ 箱盖灰色魔术贴	24	Soldering tin on main PCB/ 主 PCB 板焊锡
5	Cardboard interlayer of case cover/ 箱盖硬纸板夹层	25	Dark green main PCB/ 深绿色主 PCB 板
6	Black foam layer of case cover/ 箱盖黑色泡棉层	26	Beige grey plastic terminal block of PCB/ PCB 板米灰色塑料端子座
7	Silvery gray soft leather of foam layer (case cover)/ 箱盖泡棉层银灰色软皮	27	White plastic inner shell of case cover/ 箱盖白色塑料内盖
8	White plastic top cover of case cover/ 箱盖白色塑料上盖	28	Translucent silicone gasket of lamp panel/ 灯板半透明硅胶垫圈
9	Digital display tube/数码显示管	29	White plastic terminal of connecting wire/ 连接线白色塑料端子
10	Silvery metal of micro USB terminal base/ microUSB 端子座银色金属	30	White thin wire sheath of lamp plate connecting wire/ 灯板连接线白色细线皮
11	Gray black plastic of micro USB terminal base/ micro USB 端子座灰黑色塑料	31	Soldering tin on UV lamp plate / UV 紫外线灯板焊锡点
12	Glass ball switch/玻璃滚珠开关	32	White aluminum substrate of UV lamp / UV 紫外线灯白色铝基板
13	Black plastic base of electrolytic capacitor/ 电解电容黑色塑料座	33	UV lamp bead/ UV 紫外线灯珠
14	Silvery aluminum shell of electrolytic capacitor/ 电解电容银色铝壳	34	Grey wool surface of magic sticker (curing box)/ 固化箱灰色魔术贴毛面
15	Black sealing pad of electrolytic capacitor/ 电解电容黑色封口橡胶垫	35	Cardboard base material of curing box/ 固化箱硬纸板基材
16	Separator paper of electrolytic capacitor/ 电解电容隔纸	36	Silver reflective film of curing box/ 固化箱银色反光膜
17	Chip diode/ 贴片二极管	37	Silver reflective film on curing box bottom plate/ 固化箱底板银色反光膜
18	Chip triode/ 贴片三极管	38	Grey-green cloth at bottom of curing case 固化箱底部灰绿色布
19	Chip resistor /贴片电阻	39	White plastic head of USB terminal (USB cable) / 充电线 USB 端子白色塑胶头
20	Chip shielding inductor/ 贴片屏蔽电感	40	White filling glue of USB terminal (USB cable) / 充电线 USB 端子白色填充胶

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Tested Material Description

测试材料描述

No. 序号	Description 描述	No. 序号	Description 材料描述
41	Silvery metal of USB terminal (USB cable) / 充电线 USB 端子银色金属	46	Black thin wire sheath of USB cable/ 充电线黑色细线皮
42	White plastic of USB terminal (USB cable) / 充电线 USB 端子白色塑料	47	Copper wire core of USB cable/ 充电线铜丝线芯
43	Soldering tin on USB terminal (USB cable) / 充电线 USB 端子焊锡点	48	White plastic head of micro USB terminal (USB cable)/ 充电线 microUSB 端子白色塑胶头
44	White thick wire sheath of USB cable/ 充电线白色粗线皮	49	Gray black plastic of micro USB terminal (USB cable)/ 充电线 microUSB 端子灰黑色塑料
45	Red thin wire sheath of USB cable/ 充电线红色细线皮	50	Silvery metal of micro USB terminal (USB cable)/ 充电线 microUSB 端子银色金属

Remark :The tested materials were specified and confirmed by the client.

备注：测试材料是由客户提供并确认。

Test result /检测结果

(1) Screening Result/筛选结果

Tested Item(s)/测试项目	Screening Result/筛选结果 (mg/kg)									
	1	2	3	4	5	6	7	8	9	10
Lead (Pb)/ 铅(Pb)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cadmium (Cd)/ 镉(Cd)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Mercury (Hg)/ 汞(Hg)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Chromium (Cr)/总铬	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Bromine (PBBs & PBDEs) 总溴(PBBs & PBDEs)	BL	BL	BL	BL	BL	BL	BL	BL	X	N/A
Dibutyl phthalate(DBP) 邻苯二甲酸二丁酯(DBP)	BL	BL	BL	BL	BL	BL	BL	BL	BL	N/A
Benzylbutyl phthalate(BBP) 邻苯二甲酸丁基苯酯(BBP)	BL	BL	BL	BL	BL	BL	BL	BL	BL	N/A
Di-2-ethylhexyl phthalate(DEHP) 邻苯二甲酸二乙己基酯(DEHP)	BL	BL	BL	BL	BL	BL	BL	BL	BL	N/A
Diisobutyl phthalate(DIBP) 邻苯二甲酸二异丁酯(DIBP)	BL	BL	BL	BL	BL	BL	BL	BL	BL	N/A

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(1) Screening Result/筛选结果

Tested Item(s)/测试项目	Screening Result/筛选结果 (mg/kg)									
	11	12	13	14	15	16	17	18	19	20
Lead (Pb)/ 铅(Pb)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cadmium (Cd)/ 镉(Cd)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Mercury (Hg)/ 汞(Hg)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Chromium (Cr)/总铬	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Bromine (PBBs & PBDEs) 总溴(PBBs & PBDEs)	BL	BL	BL	N/A	BL	BL	BL	BL	BL	BL
Dibutyl phthalate(DBP) 邻苯二甲酸二丁酯(DBP)	BL	BL	BL	N/A	BL	BL	BL	BL	BL	BL
Benzylbutyl phthalate(BBP) 邻苯二甲酸丁基苯酯(BBP)	BL	BL	BL	N/A	BL	BL	BL	BL	BL	BL
Di-2-ethylhexyl phthalate(DEHP) 邻苯二甲酸二乙基己基酯(DEHP)	BL	BL	BL	N/A	BL	BL	BL	BL	BL	BL
Diisobutyl phthalate(DIBP) 邻苯二甲酸二异丁酯(DIBP)	BL	BL	BL	N/A	BL	BL	BL	BL	BL	BL

Tested Item(s)/测试项目	Screening Result/筛选结果 (mg/kg)									
	21	22	23	24	25	26	27	28	29	30
Lead (Pb)/ 铅(Pb)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cadmium (Cd)/ 镉(Cd)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Mercury (Hg)/ 汞(Hg)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Chromium (Cr)/总铬	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Bromine (PBBs & PBDEs) 总溴(PBBs & PBDEs)	BL	BL	BL	N/A	X	BL	BL	BL	BL	BL
Dibutyl phthalate(DBP) 邻苯二甲酸二丁酯(DBP)	BL	BL	BL	N/A	BL	BL	BL	BL	BL	BL
Benzylbutyl phthalate(BBP) 邻苯二甲酸丁基苯酯(BBP)	BL	BL	BL	N/A	BL	BL	BL	BL	BL	BL
Di-2-ethylhexyl phthalate(DEHP) 邻苯二甲酸二乙基己基酯(DEHP)	BL	BL	BL	N/A	BL	BL	BL	BL	BL	BL
Diisobutyl phthalate(DIBP) 邻苯二甲酸二异丁酯(DIBP)	BL	BL	BL	N/A	BL	BL	BL	BL	BL	BL

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(1) Screening Result/筛选结果

Tested Item(s)/测试项目	Screening Result/筛选结果 (mg/kg)									
	31	32	33	34	35	36	37	38	39	40
Lead (Pb)/ 铅(Pb)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cadmium (Cd)/ 镉(Cd)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Mercury (Hg)/ 汞(Hg)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Chromium (Cr)/总铬	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Bromine (PBBs & PBDEs) 总溴(PBBs & PBDEs)	N/A	N/A	BL	BL	BL	BL	BL	BL	BL	BL
Dibutyl phthalate(DBP) 邻苯二甲酸二丁酯(DBP)	N/A	N/A	BL	BL	BL	BL	BL	BL	BL	BL
Benzylbutyl phthalate(BBP) 邻苯二甲酸丁基苯酯(BBP)	N/A	N/A	BL	BL	BL	BL	BL	BL	BL	BL
Di-2-ethylhexyl phthalate(DEHP) 邻苯二甲酸二乙基己基酯(DEHP)	N/A	N/A	BL	BL	BL	BL	BL	BL	BL	BL
Diisobutyl phthalate(DIBP) 邻苯二甲酸二异丁酯(DIBP)	N/A	N/A	BL	BL	BL	BL	BL	BL	BL	BL

Tested Item(s)/测试项目	Screening Result/筛选结果 (mg/kg)									
	41	42	43	44	45	46	47	48	49	50
Lead (Pb)/ 铅(Pb)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cadmium (Cd)/ 镉(Cd)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Mercury (Hg)/ 汞(Hg)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Chromium (Cr)/总铬	BL	BL	BL	BL	BL	BL	BL	BL	BL	X
Total Bromine (PBBs & PBDEs) 总溴(PBBs & PBDEs)	N/A	BL	N/A	BL	BL	BL	N/A	BL	BL	N/A
Dibutyl phthalate(DBP) 邻苯二甲酸二丁酯(DBP)	N/A	BL	N/A	BL	BL	BL	N/A	BL	BL	N/A
Benzylbutyl phthalate(BBP) 邻苯二甲酸丁基苯酯(BBP)	N/A	BL	N/A	BL	BL	BL	N/A	BL	BL	N/A
Di-2-ethylhexyl phthalate(DEHP) 邻苯二甲酸二乙基己基酯(DEHP)	N/A	BL	N/A	BL	BL	BL	N/A	BL	BL	N/A
Diisobutyl phthalate(DIBP) 邻苯二甲酸二异丁酯(DIBP)	N/A	BL	N/A	BL	BL	BL	N/A	BL	BL	N/A

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(2) Test result for Chemical Confirmation

化学测试结果

(A) The test result of Hexavalent Chromium (Cr(VI))/ 六价铬(Cr(VI))的测试结果

Testing item/ 测试项目	Result/结果 (mg/kg)
Hexavalent Chromium (Cr(VI)) 六价铬(Cr(VI))	50 N.D

(B) The test result of PBBs&PBDEs / 多溴联苯和多溴二苯醚的测试结果

Testing item/ 测试项目	Result/结果 (mg/kg)	
	9	25
Sum of Polybrominated Biphenyls / 多溴联苯总和(PBBs)	N.D	N.D
Sum of Polybrominated Diphenyl Ethers / 多溴二苯醚总和(PBDEs)	N.D	N.D

Remark: N.D. = Not Detected (<MDL or LOQ)/ 未检出 (小于方法检出限或定量限)

备注: MDL = Method Detection Limit/方法检出限

BL = Below the screening limit/低于筛选限值

OL = Over the screening limit/高于筛选限值

IN= InconclusiveFurther chemical test/不确定性, 需要进一步测试

X = The range of needing to do further testing/需要做进一步测试的范围

* = The screened result was found and further chemical test/筛选样品进一步化学测试确认

N/A= Not applicable/不适合

3σ= The reproducibility of analytical instruments/表明分析仪器的重现性

LOD =Limit of detection/检测限

LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 µg/cm²

定量限, 六价铬的定量限为 0.10 µg/cm²

When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br exclusively, and then chemical screening was conducted if the XRF result is X.

对于多溴联苯 (PBBs) 和多溴二苯醚 (PBDEs), XRF 筛选时其结果显示为 X 时将 XRF 结果进一步化学 Br 筛选测试

When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively; 对于六价铬, XRF 筛选时其结果显示的是总铬含量

mg/kg = ppm = parts per million/百万分之一

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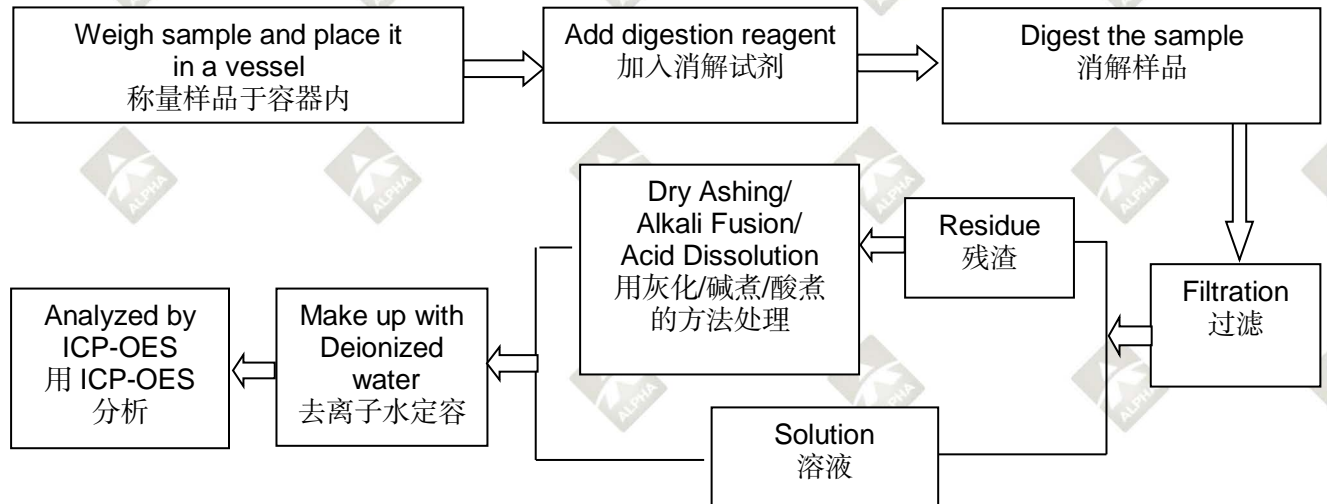


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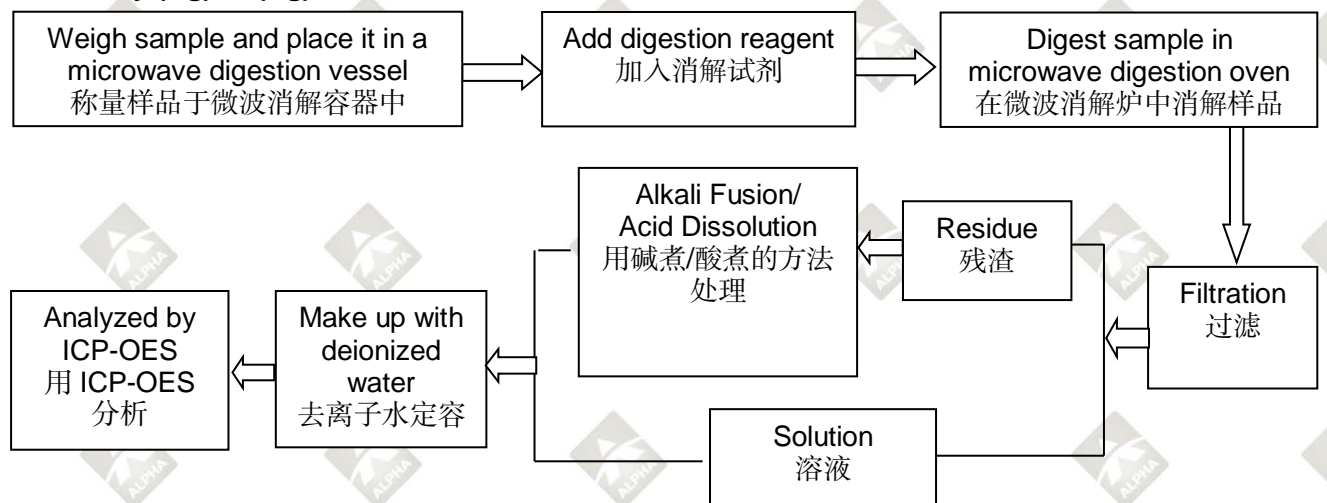
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Test Process /检测流程

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

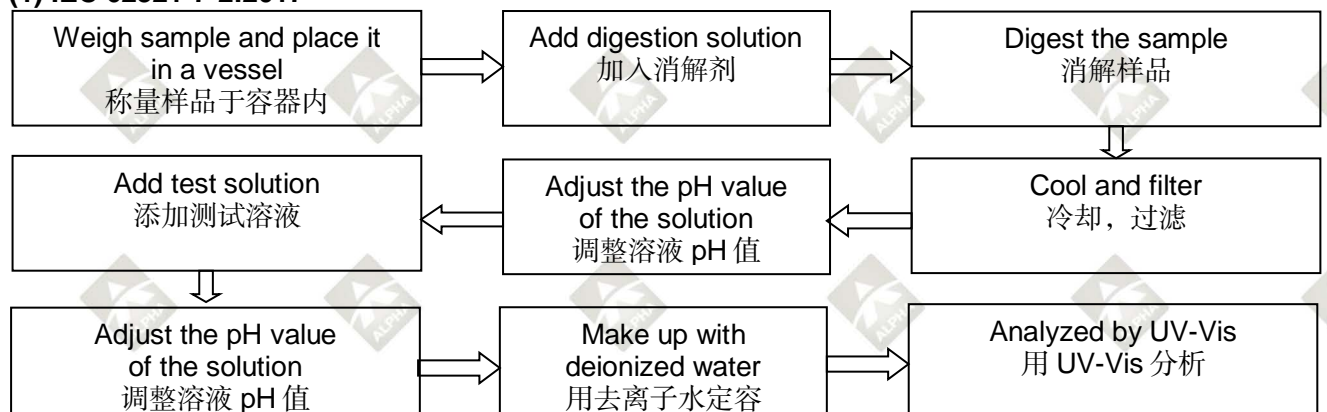


2. Mercury (Hg)/ 汞(Hg)



3. Hexavalent Chromium (Cr(VI))/六价铬(Cr(VI))

(1) IEC 62321-7-2:2017



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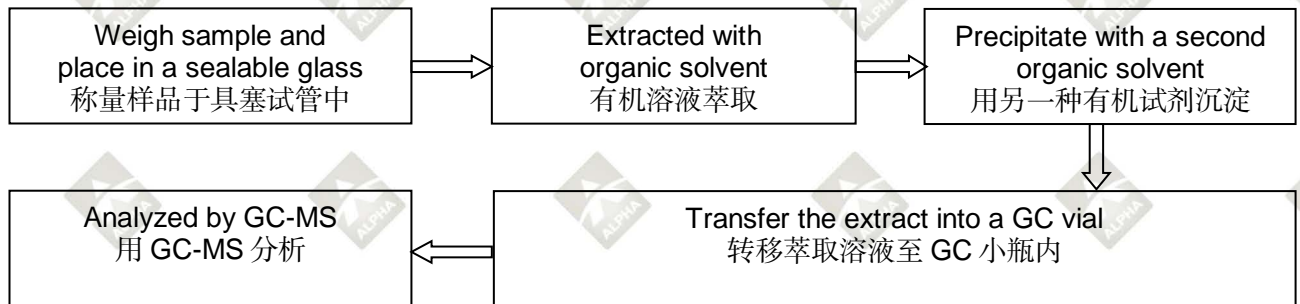
(2) IEC 62321-7-1:2015



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



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



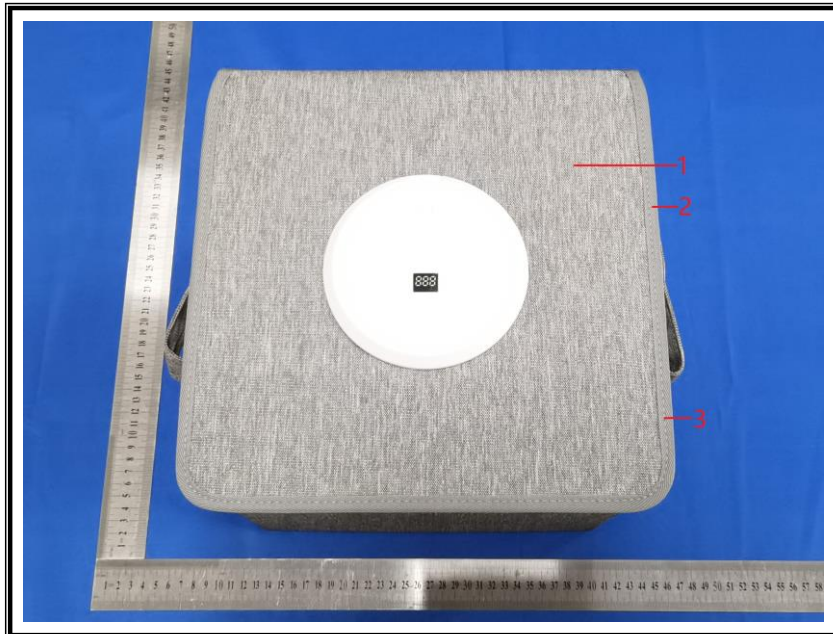
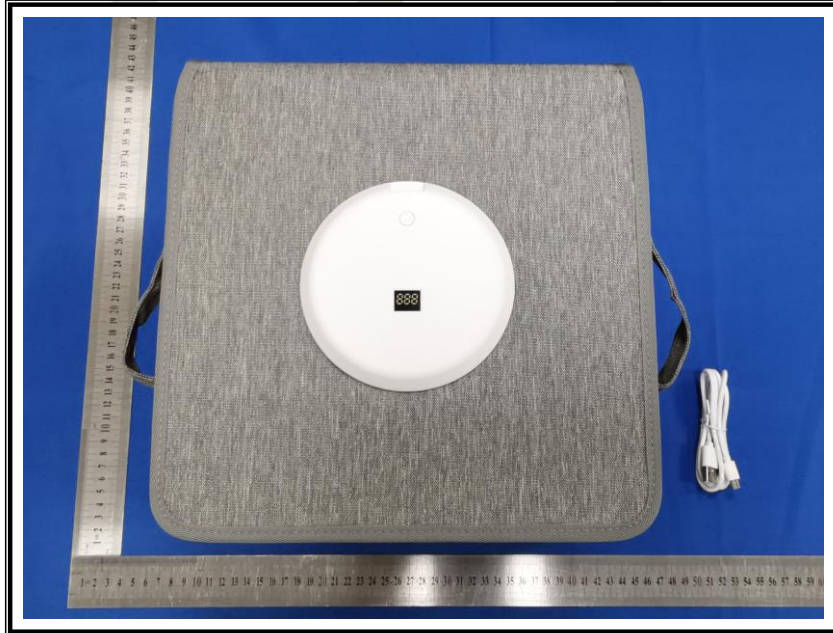
TEST REPORT 检测报告



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Tested sample photo(s)/检测样品图片



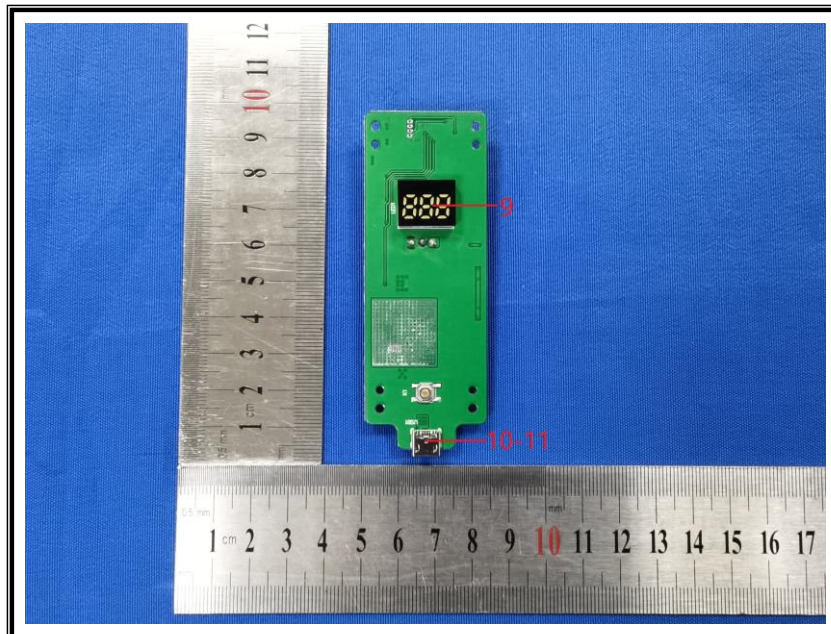
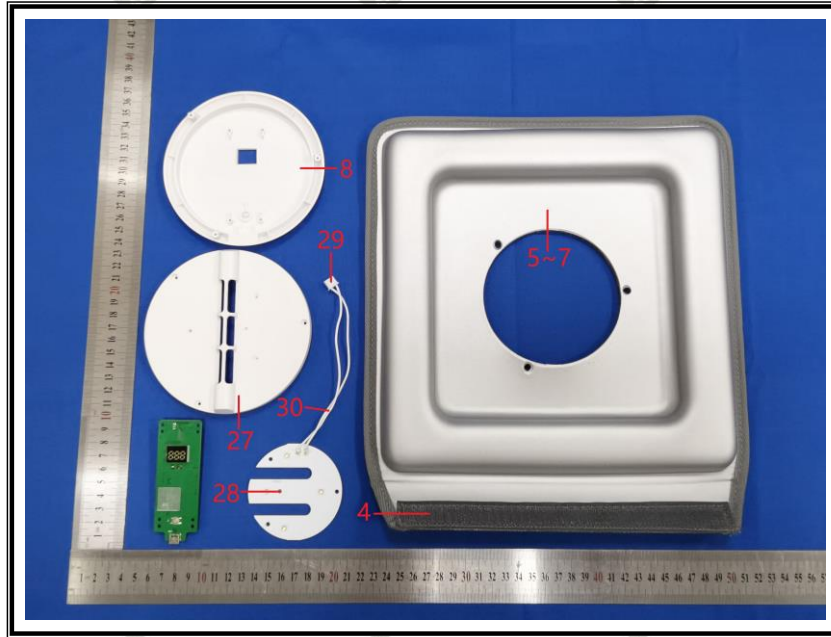
TEST REPORT 检测报告



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Tested sample photo(s)/检测样品图片



TEST REPORT

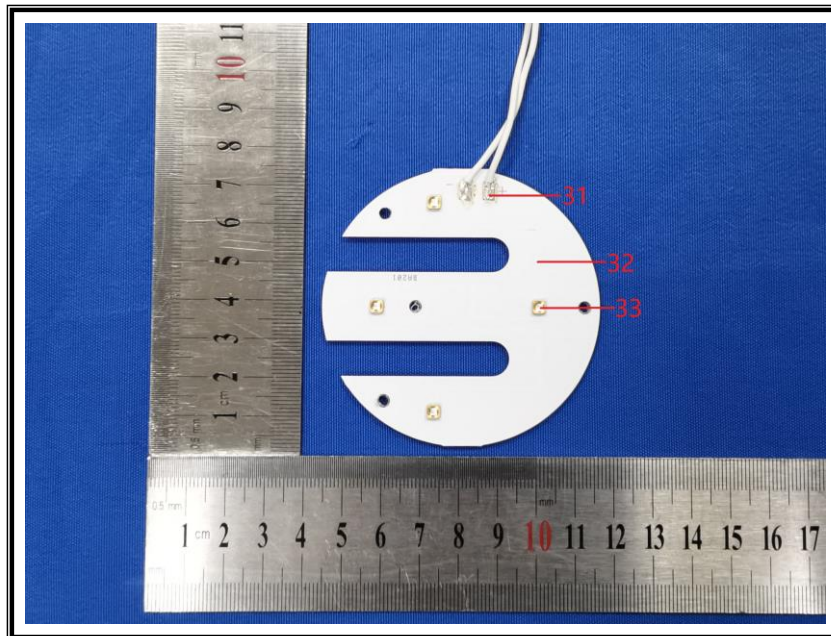
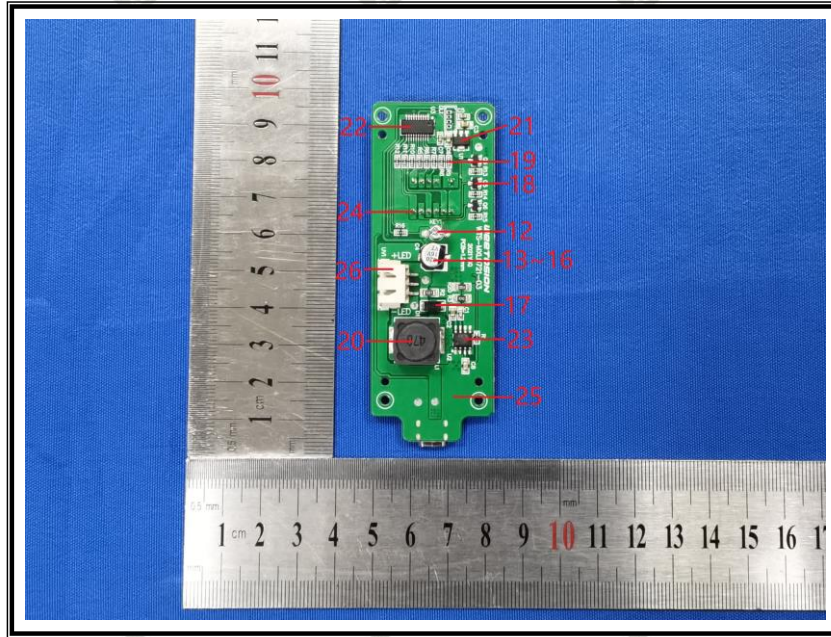
检测报告



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Tested sample photo(s)/检测样品图片



TEST REPORT

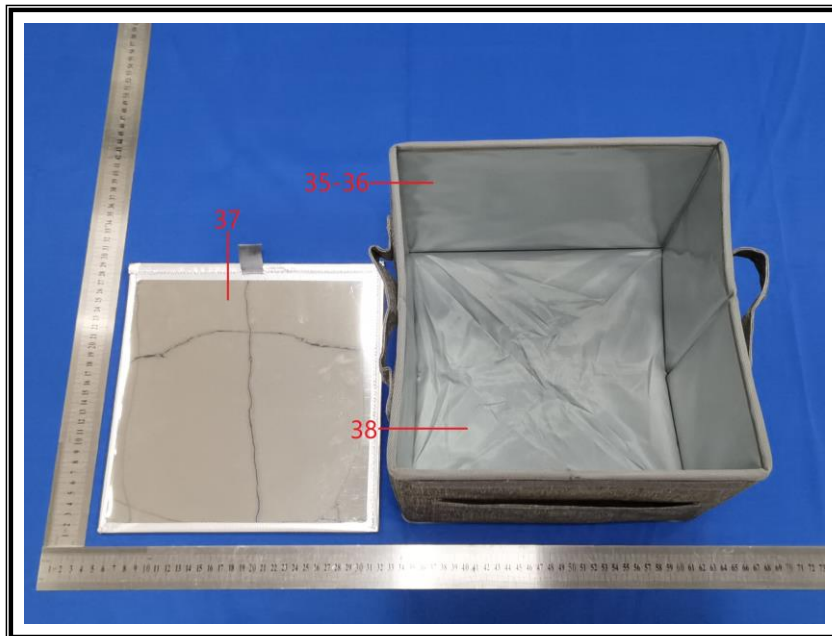
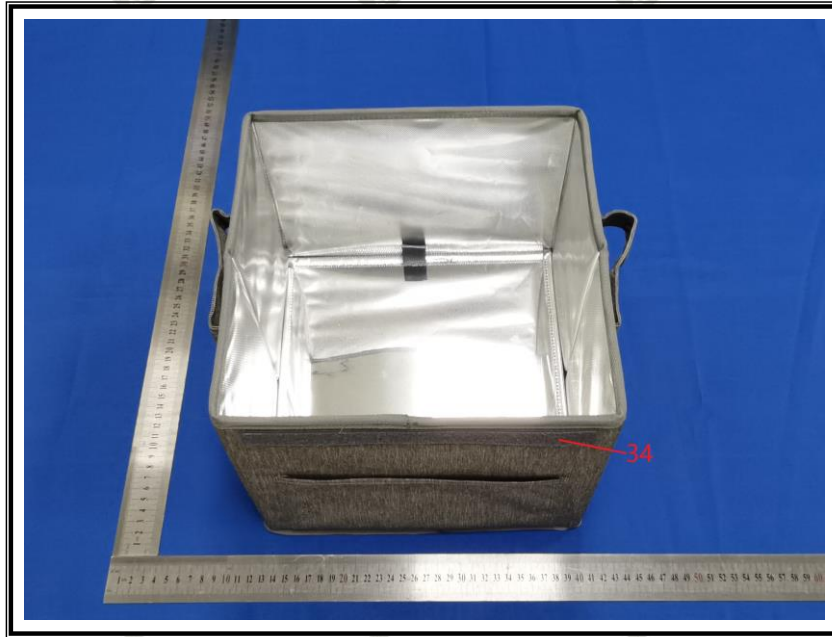
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Tested sample photo(s)/检测样品图片



TEST REPORT

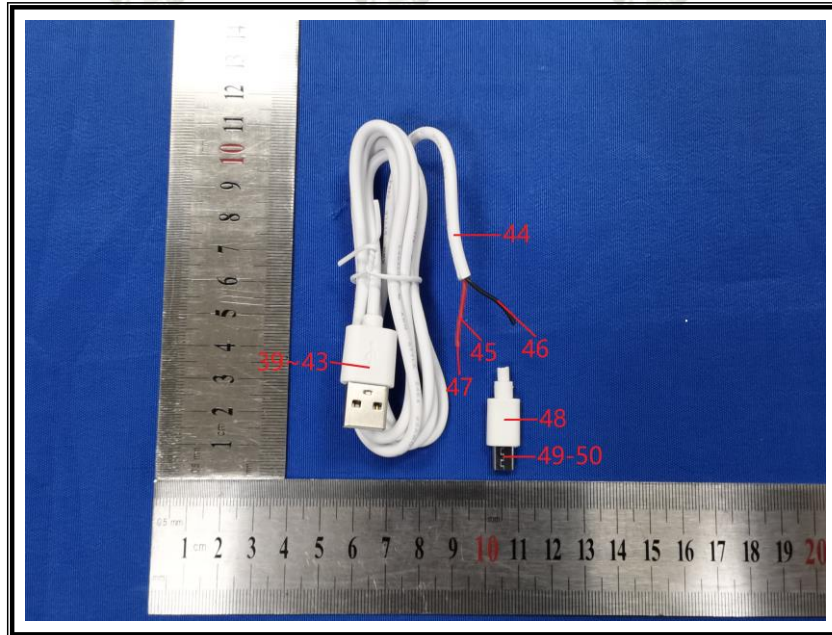
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Tested sample photo(s)/检测样品图片



--- End of report /报告结束 ---

Statement/声明:

1. The sample(s) and sample Information was/were provided by the client who should be responsible for the authenticity which ALPHA hasn't verified;
样品及样品信息由申请者提供, 申请者应对其真实性负责, ALPHA 未核实其真实性;
2. The result(s) shown in this report refer(s) only to the sample(s) tested;
本报告检测结果仅对送测样品负责;
3. According to the applicant's requirement, we only test the specified material in the submitted sample(s).
根据客户要求, 我们只测试提交样品中的指定材料;
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