

Test Report 检测报告

Report No. 报告编号:
U0901220223604-5Z

Query Password
查询密码: QW4784

Date: Mar. 1, 2022
日期: 2022年3月1日

Page 1 of 14
页码: 1 / 14

Applicant

委托单位:

Dongguan Jianshun Technology Co., Ltd.

东莞市建顺科技有限公司

Contact information

联络信息:

Second floor, Building B, No.6 Jinhe Road, Jinhe Community, Zhangmutou Town,

Dongguan City

东莞市樟木头金河社区金河路6号B栋二楼

The following sample(s) was (were) submitted and identified by client as:

以下测试样品信息由申请者所提供确认:

Sample Name 样品名称

: Power bank 移动电源

Model No.型号

: Please refer to next page(s). 请参见下页

Received Date 接收日期

: Feb. 23, 2022

: 2022年2月23日

Testing Period 检测日期

: From Feb. 23, 2022 to Mar. 1, 2022

: 2022年2月23日 ~ 2022年3月1日

Test Request 检测要求

: Please refer to next page(s). 请参见下页

Test Result(s)检测结果

: Please refer to next page(s). 请参见下页

Shen Zhen UONE Test Co., LTD.

深圳市宇冠检测有限公司

Prepared by 编制人

Checked by 审核人

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Query Password
查询密码: QW4784

Date: Mar. 1, 2022
日期: 2022年3月1日

Page 2 of 14
页码: 2 / 14

Summary of Test Results :

检测内容:

TEST REQUEST 测试要求

CONCLUSION 结论

(1) RoHS Directive 2011/65/EU and its subsequent amendments Directive (EU) 2015/863

RoHS 指令 2011 / 65 / EU 及其修订指令 (EU) 2015/863

To determine Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs) content by screening test and chemical test

使用筛选测试和化学测试测定铅 (Pb)、镉 (Cd)、汞 (Hg)、六价铬 (Cr(VI))、多溴联苯 (PBBs) 和多溴二苯醚 (PBDEs) 含量

PASS
合格

To determine Phthalates (DBP, BBP, DEHP, DIBP) content by chemical test

使用化学测试测定邻苯二甲酸盐 (酯) (DBP、BBP、DEHP、DIBP) 含量

PASS
合格

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Date: Mar. 1, 2022
日期: 2022年3月1日

Page 3 of 14
页码: 3 / 14

Model No. 型号

HYD015, HYD001, HYD002, HYD002P, HYD003, HYD004, HYD005, HYD006, HYD007, HYD008, HYD009, HYD010, HYD012, HYD013, HYD014, HYD015, HYD016, HYD017, HYD018, HYD019, HYD020, HYD021, HYD022, HYD023, HYD024, HYD025, HYD026, HYD027, HYD028, HYD029, HYD030, HYD031, HYD032, HYD033, HYD034, HYD035, HYD036, HYD037, HYD038, HYD039, HYD040, AS-TPB21, LE-TPB21, HQT002, HQT009, HYG001, HYG002, HYG003, HYG004, HYG005, HYG006, HYG007, HYG008, HYG009, HYG010, HYG012, HYG013, HYG014, HYG015, HYG016, HYG017, HYG018, HYG019, HYG020, HYG021, HYG022, HYG023, HYG024, HYG025, HYG026, HYH027, HYG028, HYG029, HYG030, HYG031, HYG032, HYG033, HYG034, HYG035, HYG036, HYG037, HYG038, HYG039, HYG040, HYG041, HYG042, HYG043, HYG044, HYG045, HYG046, HYG047, HYG048, HYG049, HYG050, HYG051, HYG052, HYG053, HYG054, HYG055, HYG056, HYG057, HYG058, HYG059, HYG060, HYG061, HYG062, HYG063, HYG064, HYG065, HYG066, HYG067, HYG068, HYG069, HYG070, HYG071, HYG072

Test Material(s) List 测试材料清单:

Material No. 材料编号	Description (Location) 描述 (位置)	Photo(s) of tested materials 测试材料照片
1	Black plastic(shell) 黑色塑料 (外壳)	
2	White dry glue 白色干胶	

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Date: Mar. 1, 2022
日期: 2022年3月1日

Page 4 of 14
页码: 4 / 14

Material No. 材料编号	Description (Location) 描述 (位置)	Photo(s) of tested materials 测试材料照片
3	Silvery metal shell (USB,PCB) 银色金属壳 (USB, PCB)	
4	Orange plastic pin holder (USB,PCB) 橙色塑料插针固定座 (USB, PCB)	
5	Silvery metal pin (USB,PCB) 银色金属插针 (USB, PCB)	
6	Black body (resistance,PCB) 黑色本体 (电阻, PCB)	
7	Yellow body (LED,PCB) 黄色本体 (LED, PCB)	
8	Red metal wire (NTC,PCB) 红色金属线芯 (NTC, PCB)	
9	Black body (NTC,PCB) 黑色本体 (NTC, PCB)	
10	Brown body (capacitance,PCB) 棕色本体 (电容, PCB)	
11	Black body (diode,PCB) 黑色本体 (二极管, PCB)	
12	Black plastic button (button switch,PCB) 黑色塑料按键 (按键开关, PCB)	
13	Silver metal sheet (button switch,PCB) 银色金属片 (按键开关, PCB)	
14	Beige plastic shell (button switch,PCB) 米色塑料壳 (按键开关, PCB)	
15	Silver metal sheet (button switch,PCB) 银色金属片 (按键开关, PCB)	
16	Silvery metal pin (button switch,PCB) 银色金属插针 (按键开关, PCB)	
17	Silvery metal shell (type-c,PCB) 银色金属壳 (type-c, PCB)	
18	Black plastic pin holder (type-c,PCB) 黑色塑料插针固定座 (type-c, PCB)	
19	Silvery metal pin (type-c,PCB) 银色金属插针 (type-c, PCB)	

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Date: Mar. 1, 2022
日期: 2022年3月1日

Page 5 of 14
页码: 5 / 14

Material No. 材料编号	Description (Location) 描述 (位置)	Photo(s) of tested materials 测试材料照片
20	Dark silvery body (inductance, PCB) 暗银色本体 (电感, PCB)	 <p>20 21 22 23</p>
21	Black body (IC, PCB) 黑色本体 (集成电路, PCB)	
22	Silvery metal (solder) 银色金属 (焊锡)	
23	Green PCB 绿色 PCB	
24	Green paper with adhesive (battery) 绿色纸带粘胶 (电池)	 <p>24 25 26 27-28</p>
25	Black plastic tape (battery) 黑色塑料胶带 (电池)	
26	Red soft plastic wire jacket (battery) 红色软塑料线皮 (电池)	
27	Black soft plastic wire jacket (battery) 黑色软塑料线皮 (电池)	
28	Silvery metal wire (battery) 银色金属线芯 (电池)	

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Date: Mar. 1, 2022
日期: 2022年3月1日

Page 6 of 14
页码: 6 / 14

Test result(s) 测试结果:

(1) Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs), Phthalates

铅 (Pb)、镉 (Cd)、汞 (Hg)、六价铬 (Cr(VI))、多溴联苯 (PBBs) 和多溴二苯醚 (PBDEs)

Test Method: IEC62321-3-1: 2013, IEC62321-4: 2013+A1:2017, IEC62321-5: 2013, IEC62321-6: 2015, IEC 62321-7-1:2015, IEC 62321-7-2: 2017, analyzed by EDXRF & ICP-OES & GC-MS & UV-Vis.

测试方法: IEC 62321-3-1: 2013, IEC62321-4: 2013+A1:2017, IEC 62321-5: 2013, IEC 62321-6:2015, IEC 62321-7-1: 2015, IEC 62321-7-2: 2017, 使用 EDXRF & ICP-OES & GC-MS & UV-Vis 分析。

No. 序号	EDXRF Result EDXRF 结果 ⁽¹⁾					Chemical Result 化学结果 ⁽²⁾ (mg/kg)	Remark 备注 ⁽³⁾	Conclusion 判定
	Pb	Cd	Hg	Cr	Br			
1	BL	BL	BL	BL	BL	—	—	PASS 合格
2	BL	BL	BL	BL	BL	—	—	PASS 合格
3	BL	BL	BL	BL	NA	—	—	PASS 合格
4	BL	BL	BL	BL	BL	—	—	PASS 合格
5	BL	BL	BL	BL	NA	—	—	PASS 合格
6	BL	BL	BL	BL	BL	—	—	PASS 合格
7	BL	BL	BL	BL	BL	—	—	PASS 合格
8	BL	BL	BL	BL	NA	—	—	PASS 合格
9	BL	BL	BL	BL	BL	—	—	PASS 合格
10	BL	BL	BL	BL	BL	—	—	PASS 合格
11	BL	BL	BL	BL	BL	—	—	PASS 合格
12	BL	BL	BL	BL	BL	—	—	PASS 合格
13	BL	BL	BL	BL	NA	—	—	PASS 合格
14	BL	BL	BL	BL	BL	—	—	PASS 合格
15	BL	BL	BL	BL	NA	—	—	PASS 合格
16	BL	BL	BL	BL	NA	—	—	PASS 合格
17	BL	BL	BL	BL	NA	—	—	PASS 合格

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查询密码: QW4784

Date: Mar. 1, 2022
日期: 2022年3月1日

Page 7 of 14
页码: 7 / 14

No. 序号	EDXRF Result EDXRF 结果 ⁽¹⁾					Chemical Result 化学结果 ⁽²⁾ (mg/kg)	Remark 备注 ⁽³⁾	Conclusion 判定
	Pb	Cd	Hg	Cr	Br			
18	BL	BL	BL	BL	BL	—	—	PASS 合格
19	BL	BL	BL	BL	NA	—	—	PASS 合格
20	BL	BL	BL	BL	BL	—	—	PASS 合格
21	BL	BL	BL	BL	BL	—	—	PASS 合格
22	BL	BL	BL	BL	NA	—	—	PASS 合格
23	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D. 多溴联苯: N.D. 多溴二苯醚: N.D.	—	PASS 合格
24	BL	BL	BL	BL	BL	—	—	PASS 合格
25	BL	BL	BL	BL	BL	—	—	PASS 合格
26	BL	BL	BL	BL	BL	—	—	PASS 合格
27	BL	BL	BL	BL	BL	—	—	PASS 合格
28	BL	BL	BL	BL	NA	—	—	PASS 合格

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Date: Mar. 1, 2022
日期: 2022年3月1日

Page 8 of 14
页码: 8 / 14

Remark 备注:

- (1) ① Results are obtained by EDXRF for primary screening, and further wet chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg). EDXRF 初步筛选的结果, 如果出现任何非结论性的结果(如下表中备注为'X'), 建议用 ICP-OES 对铅、镉、汞; UV-VIS 对六价铬; GC-MS 对多溴联苯、多溴二苯醚进行化学测试(单位 mg/kg)。
- ② OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable. OL = 超出限值, BL = 低于限值, X = 非结论性, NA = 不适用。
- ③ The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition. 因样品中不均一的混合成分, RoHS 元素的 EDXRF 筛选结果可能与实际含量有差别。

Element 元素	Polymer 聚合物	Metal 金属	Composite Materials 混合材料
Cd 镉	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb 铅	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg 汞	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br 溴	$BL \leq (300-3\sigma) < X$	NA	$BL \leq (250-3\sigma) < X$
Cr 铬	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

Units and limits in EU RoHS Directive 2011/65/EU:

欧盟 RoHS 指令 2011/65 / EU 中的单位和限制:

Element 元素	Pb 铅	Cd 镉	Hg 汞	Cr(VI) 六价铬	PBBs(single) 多溴联苯(单项)	PBDEs(single) 多溴二苯醚(单项)
Unit 单位	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit 限值	1000	100	1000	1000	1000	1000

(2) ① mg/kg = ppm = 0.0001%, N.D. = Not Detected (Less than MDL). N.D. = 未检出(低于 MDL)。

② Unit and MDL (Method detection limit) in wet chemical test. 湿化学检测的单位和 MDL (方法检出限)。

Element 元素	Pb 铅	Cd 镉	Hg 汞	Cr(VI) 六价铬	PBBs(single) 多溴联苯(单项)	PBDEs(single) 多溴二苯醚(单项)
Unit 单位	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	2	2	2	8	5	5

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Date: Mar. 1, 2022
日期: 2022年3月1日

Page 9 of 14
页码: 9 / 14

③ According to IEC 62321-7-1:2015, result on Cr(VI) for metal sample is shown as Positive/Negative.
Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

Storage condition and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

根据 IEC 62321-7-1:2015, 金属样品六价铬的结果表示为阴性/阳性。

阴性=不存在六价铬涂层/表面层; 阳性=存在六价铬涂层/表面层。

由于未获知样品的存储条件和生产日期, 样品的六价铬测试结果仅代表测试时样品的状态。

④ According to IEC 62321-3-1:2013, this column represents the results of wet chem test.

根据 IEC 62321-3-1:2013, 这一栏体现湿化学的测试结果。

(3) This column represents the exempted decoration of material or other related testing sample's information. 这一栏体现豁免材料或其它相关测试的样品信息。

(2) Phthalates 邻苯二甲酸盐 (酯) (DBP, BBP, DEHP, DIBP)

Test Method: IEC 62321-8: 2017, analyzed by gas chromatographic- mass spectrometer (GC-MS).

测试方法: IEC 62321-8: 2017, 使用气相色谱质谱联用仪 (GC-MS) 分析。

Test Substances 检测物质	DBP	BBP	DEHP	DIBP	Conclusion 结论
CAS No. CAS 号	84-74-2	85-68-7	117-81-7	84-69-5	
Limit 限值 (mg/kg)	1000	1000	1000	1000	
MDL (mg/kg)	20	20	20	20	
Material No. 材料编号	Test Result 测试结果(mg/kg)				
1	N.D.	N.D.	N.D.	N.D.	PASS 合格
2	N.D.	N.D.	N.D.	N.D.	PASS 合格
4	N.D.	N.D.	N.D.	N.D.	PASS 合格
6	N.D.	N.D.	N.D.	N.D.	PASS 合格
7	N.D.	N.D.	N.D.	N.D.	PASS 合格
9	N.D.	N.D.	N.D.	N.D.	PASS 合格
10	N.D.	N.D.	N.D.	N.D.	PASS 合格
11	N.D.	N.D.	N.D.	N.D.	PASS 合格

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日期: 2022年3月1日Page 10 of 14
页码: 10 / 14

Test Substances 检测物质	DBP	BBP	DEHP	DIBP	Conclusion 结论
CAS No. CAS 号	84-74-2	85-68-7	117-81-7	84-69-5	
Limit 限值 (mg/kg)	1000	1000	1000	1000	
MDL (mg/kg)	20	20	20	20	
Material No. 材料编号	Test Result 测试结果(mg/kg)				
12	N.D.	N.D.	N.D.	N.D.	PASS 合格
14	N.D.	N.D.	N.D.	N.D.	PASS 合格
18	N.D.	N.D.	N.D.	N.D.	PASS 合格
20	N.D.	N.D.	N.D.	N.D.	PASS 合格
21	N.D.	N.D.	N.D.	N.D.	PASS 合格
23	N.D.	N.D.	N.D.	N.D.	PASS 合格
24	N.D.	N.D.	N.D.	N.D.	PASS 合格
25	N.D.	N.D.	N.D.	N.D.	PASS 合格
26	N.D.	N.D.	N.D.	N.D.	PASS 合格
27	N.D.	N.D.	N.D.	N.D.	PASS 合格

Note 备注:

1. mg/kg = milligram per kilogram (ppm). mg/kg = 毫克每千克(ppm)。
2. MDL= method detection limit. MDL= 方法检出限。
3. N.D.=not detected(less than MDL). N.D. = 未检测到 (小于 MDL)。

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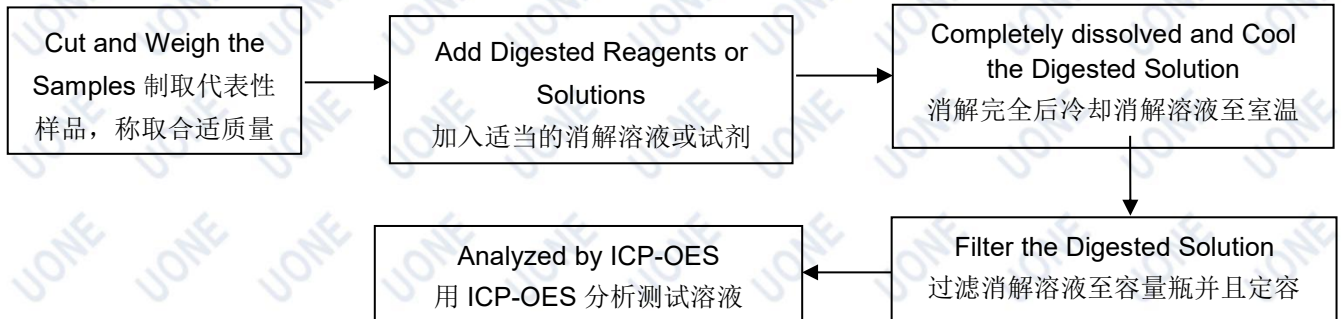
Query Password
查询密码: QW4784

Date: Mar. 1, 2022
日期: 2022年3月1日

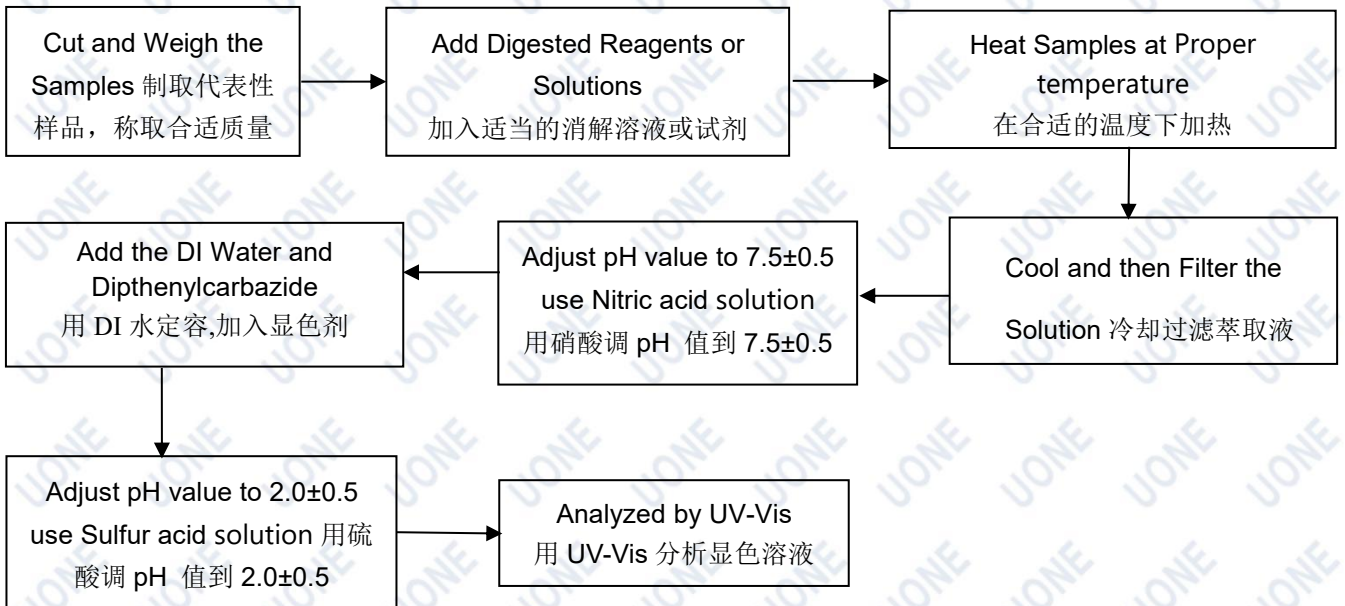
Page 11 of 14
页码: 11 / 14

Test Process Flow 检测流程图

1. Lead, Cadmium, Mercury 铅、镉、汞



2. Hexavalent Chromium (Non-metal) 六价铬 (非金属)



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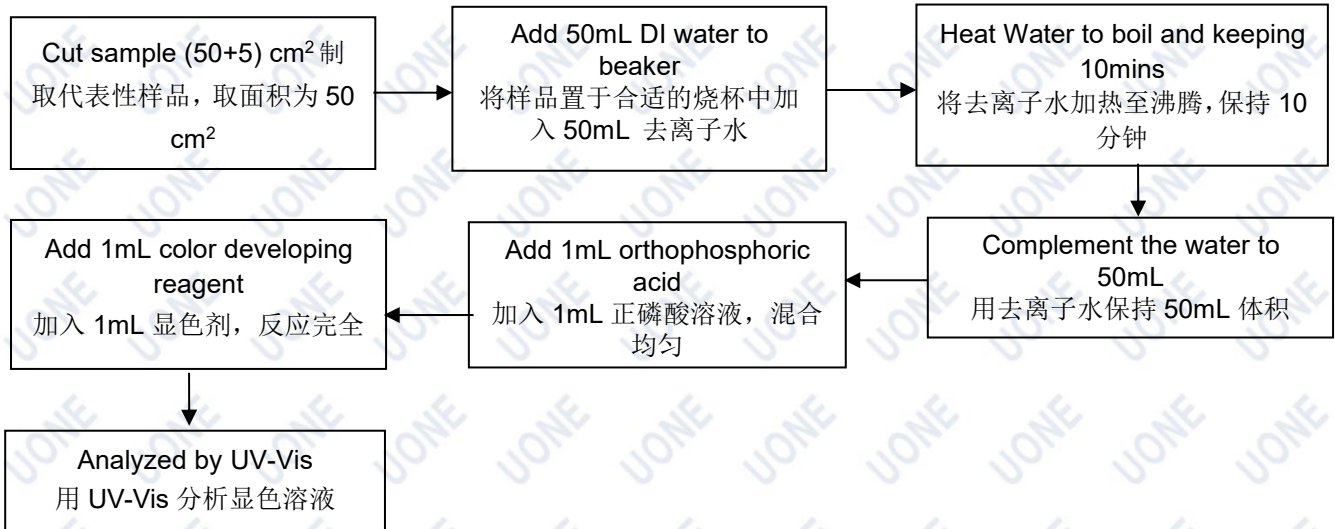
Date: Mar. 1, 2022
日期: 2022年3月1日

Page 12 of 14
页码: 12 / 14

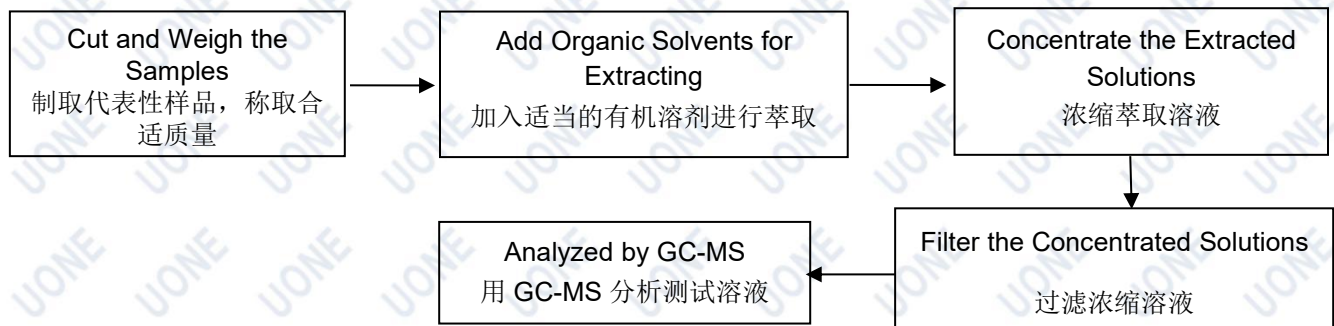
Test Process Flow (Continued):

检测流程图（续上页）:

Hexavalent Chromium (Metal) 六价铬（金属）



3. PBBs & PBDEs, Phthalates 多溴联苯和多溴二苯醚，邻苯二甲酸盐（酯）



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Test Report 检测报告

Report No. 报告编号:
U00901220223604-5Z

Query Password
查询密码: QW4784

Date: Mar. 1, 2022
日期: 2022年3月1日

Page 13 of 14
页码: 13 / 14

Photo(s) of Sample
样品图片



End of Report 报告结束

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Page 14 of 14
页码: 14 / 14

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