

檢測報告 Test Report



報告編號 A224082876610100201E
Report No. A224082876610100201E

第 1 頁 共 7 頁
Page 1 of 7

報告抬頭公司名稱 眾智光電科技股份有限公司
Company Name ORIENTAL SYSTEM TECHNOLOGY INC.
shown on Report

地址 新竹科學工業園區工業東九路25號
Address NO.25, INDUSTRY E. 9TH ROAD, HSINCHU SCIENCE PARK, HSINCHU 30075, TAIWAN, ROC

以下測試之樣品及樣品資訊由申請者提供並確認

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

樣品名稱 Array Module
Sample Name Array Module
樣品型號 OTM Series
Model No. OTM Series
樣品接收日期 2025.01.02
Sample Received Date Jan. 2, 2024
樣品檢測日期 2025.01.02-2025.01.08
Testing Period Jan. 2, 2024 to Jan. 8, 2025

檢測要求 根據客戶要求, 對所提交樣品中的鉛(Pb), 鎘(Cd), 汞(Hg), 六價鉻(Cr(VI)), 多溴聯苯(PBBs), 多溴二苯醚(PBDEs), 鄰苯二甲酸酯(DBP, BBP, DEHP, DIBP) 進行測試。
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).

檢測依據/檢測結果 請參見下頁。
Test Method/Test Result(s) Please refer to the following page(s).



馮智聰

實驗室經理 Laboratory Manager

日期
Date

2025.02.04

No. R392332162

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5F-6, No.9, Sec.2, Nankan Rd, Luzhu Dist., Taoyuan, Taiwan

檢測報告
Test Report

報告編號 A224082876610100201E
Report No. A224082876610100201E
檢測依據 Test Method

第 2 頁 共 7 頁
Page 2 of 7

測試項目 Test Item(s)	測試方法 Test Method	測試儀器 Measured Equipment(s)
鉛 Lead (Pb)	IEC 62321-5:2013	ICP-OES
鎘 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六價鉻 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017	UV-Vis
多溴聯苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
鄰苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

檢測報告

Test Report

報告編號 A224082876610100201E

Report No. A224082876610100201E

第 3 頁 共 7 頁

Page 3 of 7

檢測結果 Test Result(s)

測試項目 Tested Item(s)	結 果 Result	方法檢出限 MDL
	002	
鉛 Lead (Pb)	N.D.	2 mg/kg
鎘 Cadmium (Cd)	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg
六價鉻 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg
測試項目 Tested Item(s)	結 果 Result	方法檢出限 MDL
	002	
多溴聯苯 Polybrominated Biphenyls (PBBs)		
一溴聯苯 Monobromobiphenyl	N.D.	5 mg/kg
二溴聯苯 Dibromobiphenyl	N.D.	5 mg/kg
三溴聯苯 Tribromobiphenyl	N.D.	5 mg/kg
四溴聯苯 Tetrabromobiphenyl	N.D.	5 mg/kg
五溴聯苯 Pentabromobiphenyl	N.D.	5 mg/kg
六溴聯苯 Hexabromobiphenyl	N.D.	5 mg/kg
七溴聯苯 Heptabromobiphenyl	N.D.	5 mg/kg
八溴聯苯 Octabromobiphenyl	N.D.	5 mg/kg
九溴聯苯 Nonabromobiphenyl	N.D.	5 mg/kg
十溴聯苯 Decabromobiphenyl	N.D.	5 mg/kg
測試項目 Tested Item(s)	結 果 Result	方法檢出限 MDL
	002	
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)		
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 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

檢測報告
Test Report

報告編號 A224082876610100201E

Report No. A224082876610100201E

第 4 頁 共 7 頁

Page 4 of 7

檢測結果 Test Result(s)

測試項目 Tested Item(s)	結 果 Result	方法檢出限 MDL
	002	
鄰苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)		
鄰苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
鄰苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
鄰苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
鄰苯二甲酸二異丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

樣品/部位描述 Sample/Part Description

序號 No.	CTI樣品ID CTI Sample ID	描述 Description
1	002	電子元器件(整體測試) Electronic components (Tested as a whole)

備註: 對於檢測鉛, 鎘, 汞之樣品已消解完全。

-N.D. = 未檢出 (小於方法檢出限)

-mg/kg = ppm = 百萬分之一

-按照目前手段, 樣品無法進一步拆分, 樣品整體測試, 測試結果不代表整體測試樣品中任何一種單一材質的含量。

-本報告中樣品測試結果引自於報告A2240828766101002E。

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-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.

-The test result(s) of sample is(are) presented in reference to the result(s) that reported in No. A2240828766101002E.

注釋: 本報告中的資料結果供科研、教學、企業內部品質控制、企業產品研發等目的用。

Note: The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

檢測報告 Test Report

報告編號 A224082876610100201E

Report No. A224082876610100201E

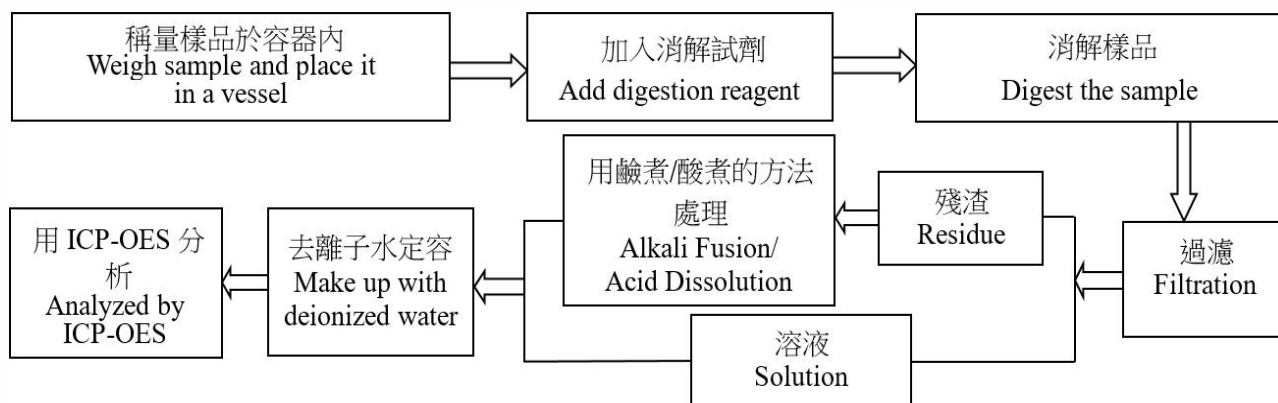
第 5 頁 共 7 頁

Page 5 of 7

檢測流程 Test Process

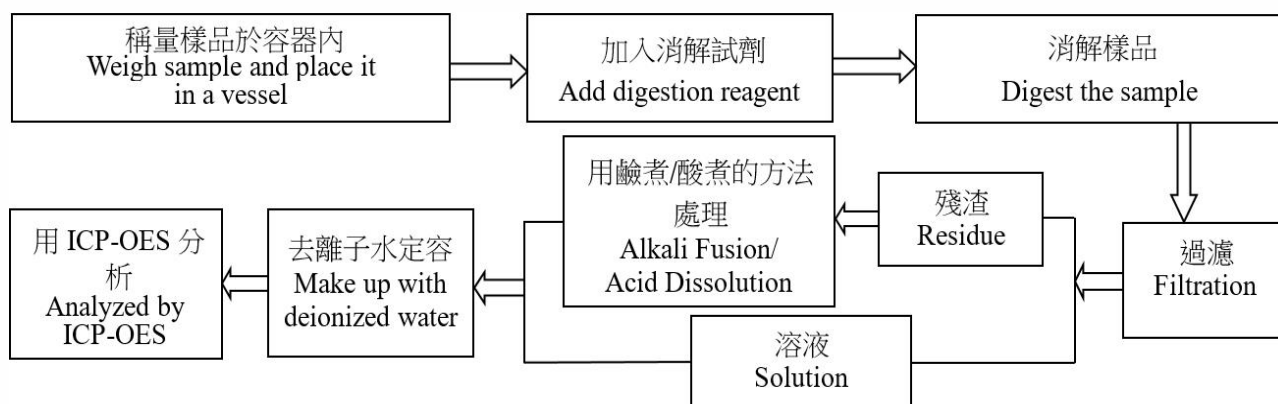
1. 鉛(Pb)， 鎘(Cd)

Lead (Pb), Cadmium (Cd)



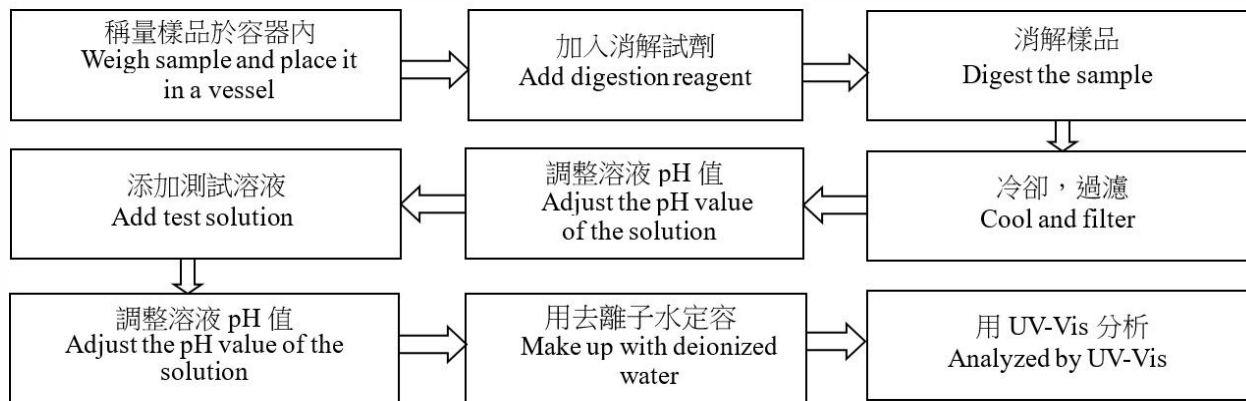
2. 汞(Hg)

Mercury (Hg)



3. 六價鉻(Cr(VI))

Hexavalent Chromium (Cr(VI))



檢測報告 Test Report

報告編號 A224082876610100201E

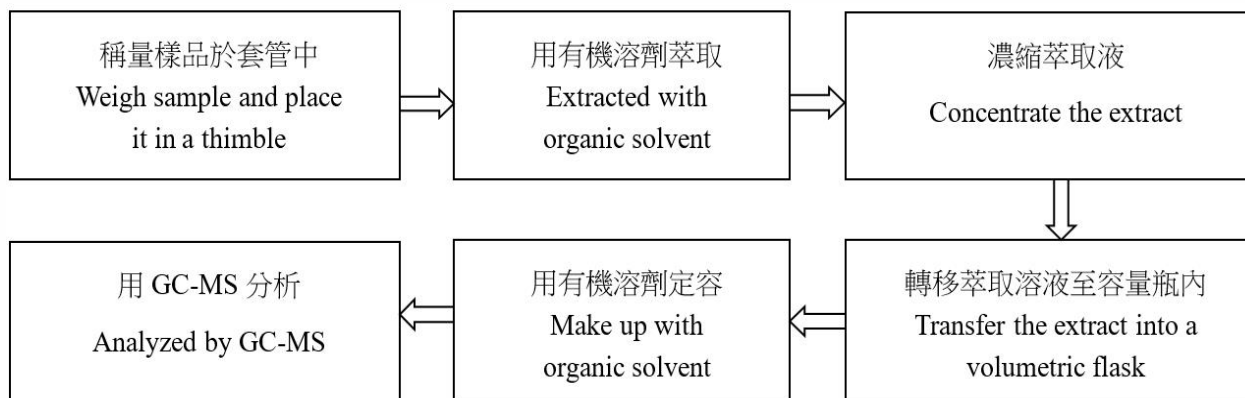
Report No. A224082876610100201E

第 6 頁 共 7 頁

Page 6 of 7

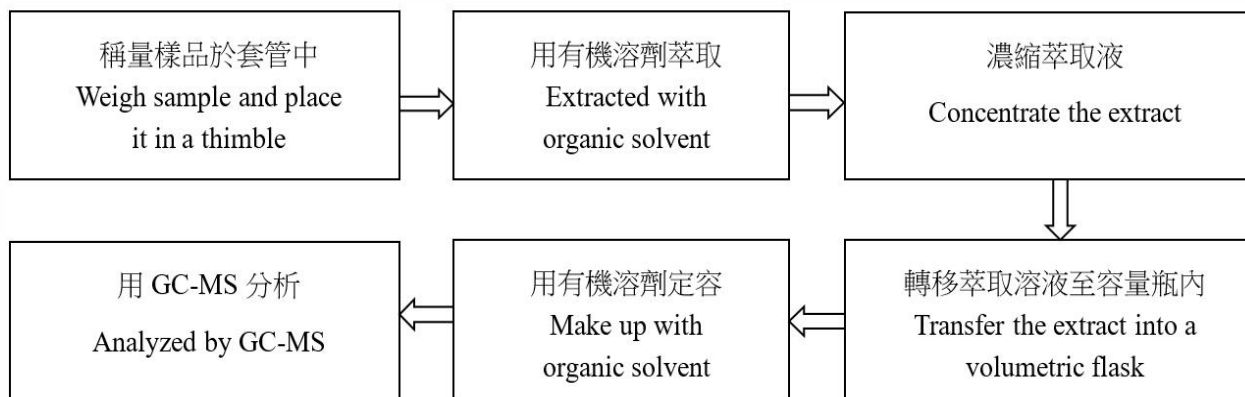
4. 多溴聯苯(PBBs), 多溴二苯醚(PBDEs)

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



5. 鄰苯二甲酸酯(DBP, BBP, DEHP, DIBP)

Phthalates (DBP, BBP, DEHP, DIBP)



檢測報告 Test Report

報告編號 A224082876610100201E
Report No. A224082876610100201E

第 7 頁 共 7 頁
Page 7 of 7

樣品圖片 Photo(s) of the sample(s)



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2. 報告抬頭公司名稱及位址、樣品及樣品資訊由申請者提供，申請者應對其真實性負責，CTI未核實其真實性；
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;
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The result(s) shown in this report refer(s) only to the sample(s) tested;
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報告結束

*** End of report ***