

Report No. 報告號碼: 48278982a 001

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Client 客戶: Oriental System Technology Inc./眾智光電科技股份有限公司
No. 25, Industry E. 9th Road, Hsinchu Science Park, Hsinchu 30075, Taiwan,
R.O.C. / 台灣 30075 新竹科學工業園區工業東九路 25 號

Identification/Model No(s): Thermopile Sensor / OTP Series/OGS Series/OIR Series/OTI Series
樣品描述/規格:

Sample obtaining method: Sending by customer
樣品獲取方式:

Condition at delivery: Test item complete and undamaged.
樣品接收狀態:

Sample receiving date: 2025-07-02
收樣日期:

Testing period: 2025-07-02 – 2025-07-11
測試週期:

Place of testing: TÜV Rheinland Hong Kong Ltd.
測試地點:

Test specification 測試要求:

Testing according to customer's specification for the following parameters:

Total Content of Lead, Cadmium, Mercury, Chromium VI, Polybrominated Biphenyls, Polybrominated Diphenyl Ethers; and Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP), Bis(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate (DIBP) / 鉛、鎘、汞、六價鉻、多溴聯苯、多溴二苯醚、鄰苯二甲酸苯基丁酯、鄰苯二甲酸二丁酯、鄰苯二甲酸二(2-乙基己基)酯、鄰苯二甲酸二異丁酯 之總含量

Halogen/halogen (Fluorine/氟, Chlorine/氯, Bromine/溴, Iodine/碘)

Test result 測試結果:

Refer to result page
參照測試報告

Refer to result page
參照測試報告

Other information: According to client's request, the sample(s) was/were analyzed as a combined mixed sample. The result(s) was/were serve as reference only.
其他信息:

For and on behalf of
TÜV Rheinland Taiwan Ltd.

Arthur Cheng



2025-07-11
Date 日期

Arthur Cheng/Project Manager
Name/Position 姓名/職位

Report Authenticity Verification, please email: softlines@tw.tuv.com
報告真實性確認, 如需驗證, 請電郵至 softlines@tw.tuv.com

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts.
This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

樣品信息由客戶提供。測試結果根據所做測試的種類和範圍而得出。本測試報告僅對來樣負責。未經本測試中心許可, 測試報告不得部分複製。不能根據此報告在上述產品或類似產品上使用任何安全標誌。本測試報告中, 描述符合性聲明所應用的判定規則發佈在我司官網 <https://www.tuv.com/landingpage/en/qm-gcn/>。

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第2頁共7頁**Tested Material list/測試材料清單**

Mat. No./ 材料號碼	Material/材質	Color/顏色	Location/位置
1	Electronic components/ 電子零件	Multicolor/彩色	TCL250702-08

Test Sample/測試樣品

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Test Result 測試結果

				Mat.1
Test Item/測試項目	Test Method/測試方法	Unit / 單位	MDL	Result/結果
Cadmium (Cd) / 鎘	With ref. to IEC 62321-5:2013, ICP-OES/參考 IEC 62321-5: 2013,感應耦合電漿發射光譜儀	mg/kg	2	n.d.
Lead (Pb) / 鉛	With ref. to IEC 62321-5:2013, ICP-OES/參考 IEC 62321-5: 2013,感應耦合電漿發射光譜儀	mg/kg	2	n.d.
Mercury (Hg) / 汞	With ref. to IEC 62321-4: 2013+ AMD1:2017, AAS/參考 IEC 62321-4: 2013+ AMD1: 2017, 原子吸收光譜儀	mg/kg	2	n.d.
Chromium VI (Cr VI) / 六價鉻	With ref. to IEC 62321-7-2:2017, UV-VIS/參考 IEC 62321-7-2: 2017,紫外光-可見光分光光度計	mg/kg	8	n.d.
Sum of Polybrominated biphenyls (PBBs) / 多溴聯苯總和	With ref. to IEC 62321-6:2015, GC-MS/參考 IEC 62321-6: 2015,氣相層析儀-質譜儀	mg/kg	-	n.d.
Monobromobiphenyl/一溴聯苯		mg/kg	5	n.d.
Dibromobiphenyl/二溴聯苯		mg/kg	5	n.d.
Tribromobiphenyl/三溴聯苯		mg/kg	5	n.d.
Tetrabromobiphenyl/四溴聯苯		mg/kg	5	n.d.
Pentabromobiphenyl/五溴聯苯		mg/kg	5	n.d.
Hexabromobiphenyl/六溴聯苯		mg/kg	5	n.d.
Heptabromobiphenyl/七溴聯苯		mg/kg	5	n.d.
Octabromobiphenyl/八溴聯苯		mg/kg	5	n.d.
Nonabromobiphenyl/九溴聯苯		mg/kg	5	n.d.
Decabromobiphenyl/十溴聯苯		mg/kg	5	n.d.
Sum of Polybrominated diphenyl ethers (PBDEs) / 多溴二苯醚總和		mg/kg	-	n.d.
Monobromodiphenyl ether/一溴二苯醚		mg/kg	5	n.d.
Dibromodiphenyl ether/二溴二苯醚		mg/kg	5	n.d.
Tribromodiphenyl ether/三溴二苯醚		mg/kg	5	n.d.
Tetrabromodiphenyl ether/四溴二苯醚		mg/kg	5	n.d.
Pentabromodiphenyl ether/五溴二苯醚		mg/kg	5	n.d.
Hexabromodiphenyl ether/六溴二苯醚		mg/kg	5	n.d.
Heptabromodiphenyl ether/七溴二苯醚		mg/kg	5	n.d.
Octabromodiphenyl ether/八溴二苯醚		mg/kg	5	n.d.
Nonabromodiphenyl ether/九溴二苯醚		mg/kg	5	n.d.
Decabromodiphenyl ether/十溴二苯醚		mg/kg	5	n.d.

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				Mat.1
Test Item/測試項目	Test Method/ 測試方法	Unit / 單位	MDL	Result/ 結果
Benzyl butyl phthalate (BBP)/ 鄰苯二甲酸苯基丁酯	With ref. to IEC 62321-8:2017, GC-MS/ 參考 IEC 62321-8: 2017, 氣相層析儀-質譜儀	mg/kg	50	n.d.
Dibutyl phthalate (DBP)/ 鄰苯二甲酸二丁酯		mg/kg	50	n.d.
Diethylhexyl phthalate (DEHP)/ 鄰苯二甲酸二(2-乙基己基)酯		mg/kg	50	n.d.
Diisobutyl phthalate (DIBP)/ 鄰苯二甲酸二異丁酯		mg/kg	50	n.d.
Halogen / 鹵素				
Fluorine (F) / 氟	With ref. to EN 14582:2016, IC/ 參考 EN 14582:2016, 離子層析儀	mg/kg	50	n.d.
Chlorine (Cl) / 氯		mg/kg	50	73
Bromine (Br) / 溴		mg/kg	50	n.d.
Iodine (I) / 碘		mg/kg	50	n.d.

Notes/ 註釋:

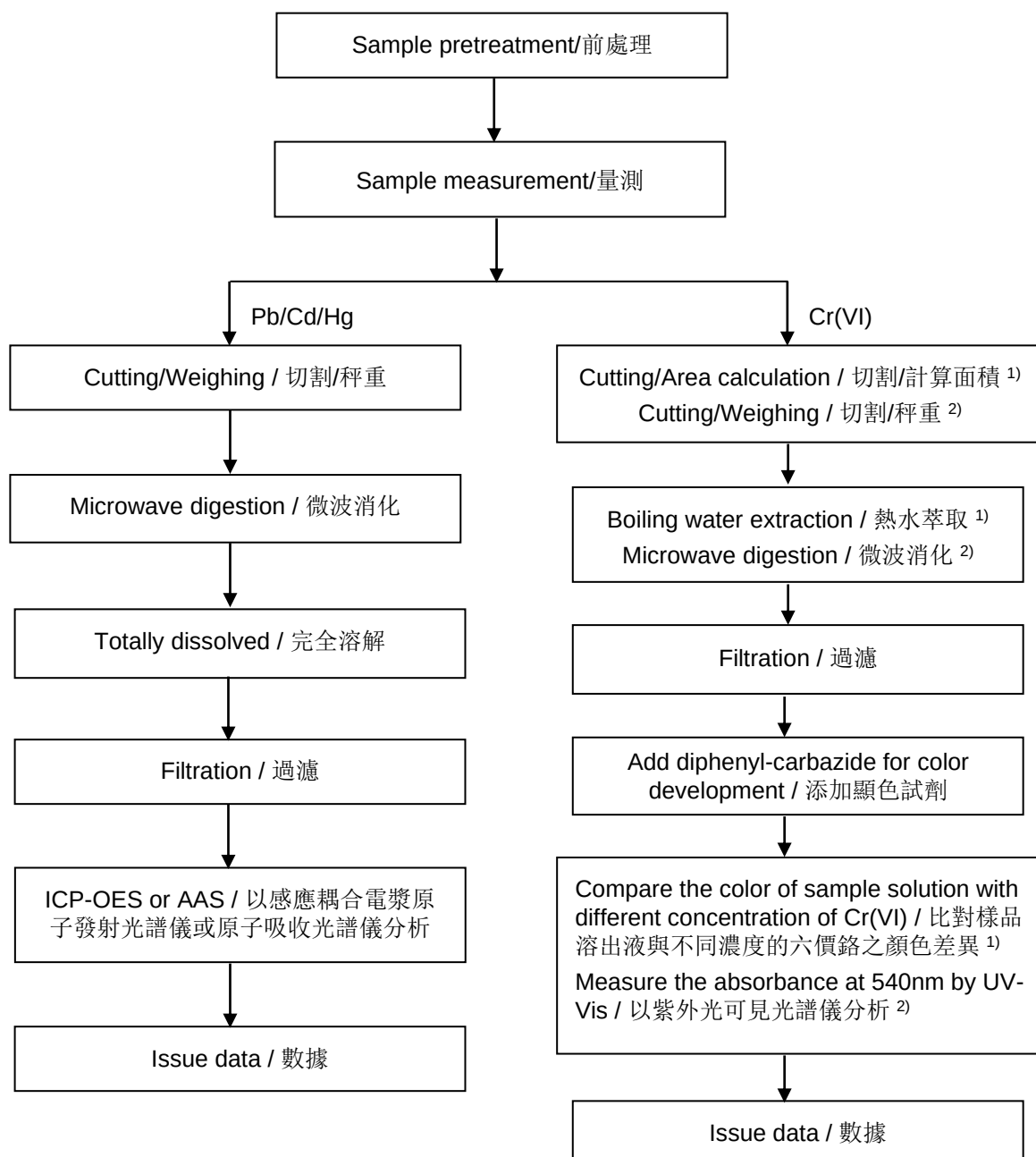
MDL = Method Detection Limit/方法偵測極限值

n.d. = Not Detected/未檢出 ; Less than MDL/小於 MDL

mg/kg = milligram per kilogram/ 毫克每公斤

Testing procedure / 測試流程圖:

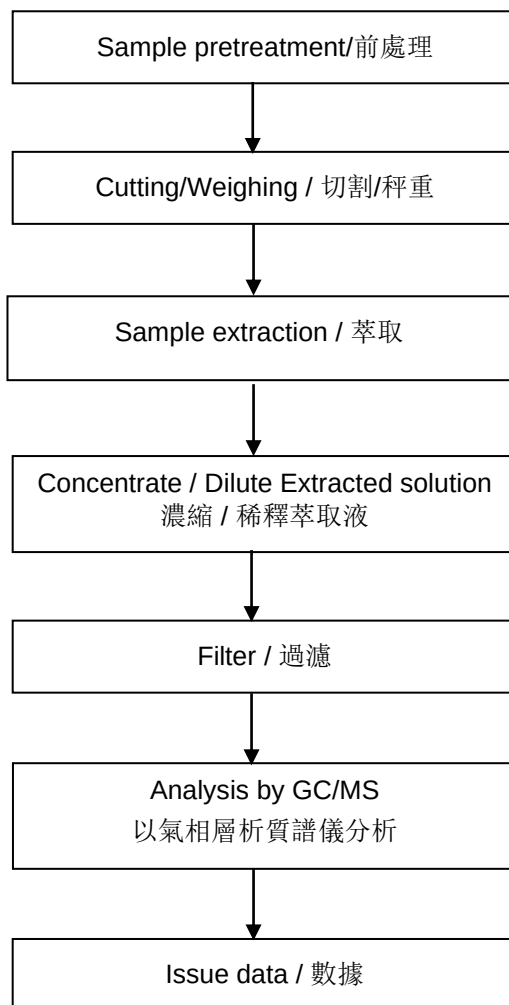
Pb/鉛, Cd/鎘, Hg/汞, Cr(VI)/六價鉻

Notes/註釋: ¹⁾ For metallic material / 用於金屬物質²⁾ For non-metallic material / 用於非金屬物質

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第6頁共7頁**Testing procedure / 測試流程圖：**

PBBs/多溴聯苯, PBDEs/多溴二苯醚, BBP/鄰苯二甲酸苯基丁酯、DBP/鄰苯二甲酸二丁酯、
DEHP/鄰苯二甲酸二(2-乙基己基)酯、DIBP/鄰苯二甲酸二異丁酯

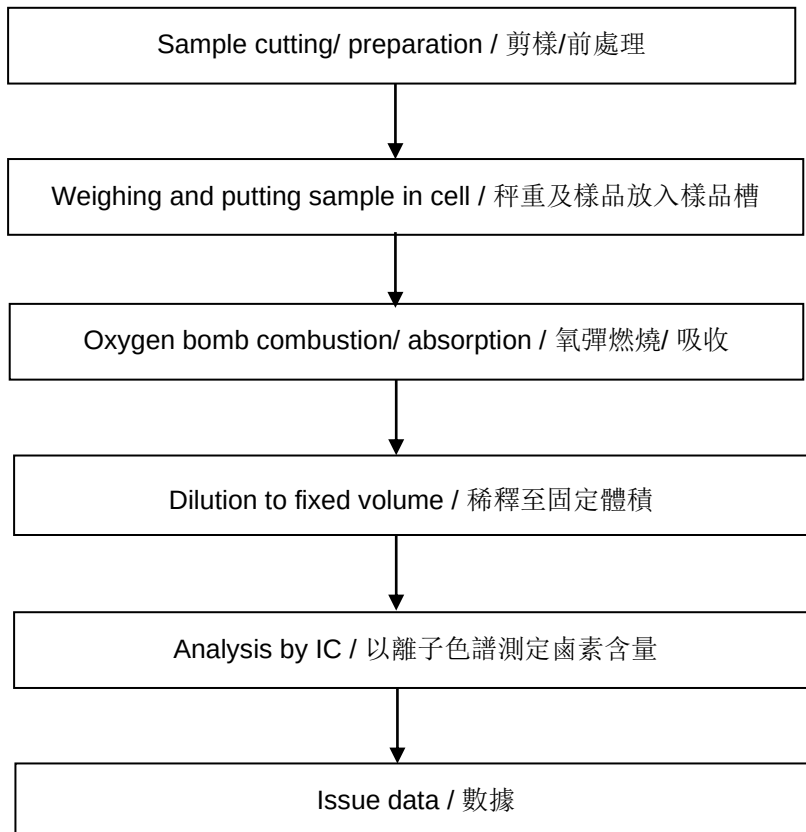


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Testing procedure / 測試流程圖:

Halogen/鹵素



--- End of Test-Report / 此報告結束---