



## 測試報告

## Test Report

號碼(No.): ETR26101440

日期(Date): 14-Jan-2026

頁數(Page): 1 of 23

龍德數位科技有限公司 (LONGDER DIGITAL TECHNOLOGY CO., LTD.)

台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as) :

送樣廠商(Sample Submitted By) : 龍德數位科技有限公司 (LONGDER DIGITAL TECHNOLOGY CO., LTD.)

樣品名稱(Sample Name) : LABEL STICKER (標籤貼紙)

收件日(Sample Receiving Date) : 07-Jan-2026

測試期間(Testing Period) : 07-Jan-2026 to 14-Jan-2026

測試需求(Test Requested) : 依據客戶要求進行測試。測試項目請參閱測試結果表格。(Testing item(s) is/are specified by client. Please refer to result table for testing item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

  
Troy Chang / Department Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



PIN CODE: 1F1E15B9

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台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

測試部位敘述 (Test Part Description)  
No.1 : 整體混測 (MIXED ALL PARTS)

測試結果 (Test Results)

| 測試項目<br>(Test Items)                    | 測試方法<br>(Method)                                                                                                                       | 單位<br>(Unit) | MDL | 結果<br>(Result) |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------|-----|----------------|
|                                         |                                                                                                                                        |              |     | No.1           |
| 鎘 (Cd) (Cadmium (Cd))                   | 參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)                         | mg/kg        | 2   | n.d.           |
| 鉛 (Pb) (Lead (Pb))                      | 參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)                         | mg/kg        | 2   | n.d.           |
| 汞 (Hg) (Mercury (Hg))                   | 參考IEC 62321-4: 2013+ AMD1: 2017 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.) | mg/kg        | 2   | n.d.           |
| 六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI)) | 參考IEC 62321-7-2: 2017 · 以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)                     | mg/kg        | 8   | n.d.           |
| 一溴聯苯 (Monobromobiphenyl)                | 參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)                             | mg/kg        | 5   | n.d.           |
| 二溴聯苯 (Dibromobiphenyl)                  |                                                                                                                                        | mg/kg        | 5   | n.d.           |
| 三溴聯苯 (Tribromobiphenyl)                 |                                                                                                                                        | mg/kg        | 5   | n.d.           |
| 四溴聯苯 (Tetrabromobiphenyl)               |                                                                                                                                        | mg/kg        | 5   | n.d.           |
| 五溴聯苯 (Pentabromobiphenyl)               |                                                                                                                                        | mg/kg        | 5   | n.d.           |
| 六溴聯苯 (Hexabromobiphenyl)                |                                                                                                                                        | mg/kg        | 5   | n.d.           |
| 七溴聯苯 (Heptabromobiphenyl)               |                                                                                                                                        | mg/kg        | 5   | n.d.           |
| 八溴聯苯 (Octabromobiphenyl)                |                                                                                                                                        | mg/kg        | 5   | n.d.           |
| 九溴聯苯 (Nonabromobiphenyl)                |                                                                                                                                        | mg/kg        | 5   | n.d.           |
| 十溴聯苯 (Decabromobiphenyl)                |                                                                                                                                        | mg/kg        | 5   | n.d.           |
| 多溴聯苯總和 (Sum of PBBs)                    |                                                                                                                                        | mg/kg        | -   | n.d.           |

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龍德數位科技有限公司 (LONGDER DIGITAL TECHNOLOGY CO., LTD.)  
台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

| 測試項目<br>(Test Items)                                        | 測試方法<br>(Method)                                                                                           | 單位<br>(Unit) | MDL | 結果<br>(Result) |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------|-----|----------------|
|                                                             |                                                                                                            |              |     | No.1           |
| 一溴聯苯醚 (Monobromodiphenyl ether)                             | 參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.) | mg/kg        | 5   | n.d.           |
| 二溴聯苯醚 (Dibromodiphenyl ether)                               |                                                                                                            | mg/kg        | 5   | n.d.           |
| 三溴聯苯醚 (Tribromodiphenyl ether)                              |                                                                                                            | mg/kg        | 5   | n.d.           |
| 四溴聯苯醚 (Tetrabromodiphenyl ether)                            |                                                                                                            | mg/kg        | 5   | n.d.           |
| 五溴聯苯醚 (Pentabromodiphenyl ether)                            |                                                                                                            | mg/kg        | 5   | n.d.           |
| 六溴聯苯醚 (Hexabromodiphenyl ether)                             |                                                                                                            | mg/kg        | 5   | n.d.           |
| 七溴聯苯醚 (Heptabromodiphenyl ether)                            |                                                                                                            | mg/kg        | 5   | n.d.           |
| 八溴聯苯醚 (Octabromodiphenyl ether)                             |                                                                                                            | mg/kg        | 5   | n.d.           |
| 九溴聯苯醚 (Nonabromodiphenyl ether)                             |                                                                                                            | mg/kg        | 5   | n.d.           |
| 十溴聯苯醚 (Decabromodiphenyl ether)                             |                                                                                                            | mg/kg        | 5   | n.d.           |
| 多溴聯苯醚總和 (Sum of PBDEs)                                      |                                                                                                            | mg/kg        | -   | n.d.           |
| 鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP))              | 參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg        | 50  | n.d.           |
| 鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP))                    |                                                                                                            | mg/kg        | 50  | n.d.           |
| 鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) |                                                                                                            | mg/kg        | 50  | n.d.           |
| 鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP))              |                                                                                                            | mg/kg        | 50  | n.d.           |
| 氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)                  | 參考BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)        | mg/kg        | 50  | n.d.           |
| 氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)                |                                                                                                            | mg/kg        | 50  | 267            |
| 溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)                 |                                                                                                            | mg/kg        | 50  | n.d.           |
| 碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)                    |                                                                                                            | mg/kg        | 50  | n.d.           |
| 雙酚A (Bisphenol A) (CAS No.: 80-05-7)                        | 參考RSTS-CHEM-239-1 · 以液相層析串聯質譜儀分析。(With reference to RSTS-CHEM-239-1, analysis was performed by LC/MS/MS.)  | mg/kg        | 1   | n.d.           |

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台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

| 測試項目<br>(Test Items)                                                                                                                                | 測試方法<br>(Method)                                                                                   | 單位<br>(Unit) | MDL  | 結果<br>(Result) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------|------|----------------|
|                                                                                                                                                     |                                                                                                    |              |      | No.1           |
| PFOS及其鹽類 (PFOS and its salts)                                                                                                                       |                                                                                                    |              |      |                |
| 全氟辛烷磺酸及其鹽類 (PFOS and its salts) (Perfluorooctane sulfonates and its salts (PFOS and its salts)) (CAS No.: 1763-23-1 and its salts)                  | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.           |
| PFOS相關化合物 (PFOS related compounds)                                                                                                                  |                                                                                                    |              |      |                |
| N-乙基全氟正辛磺醯胺 (EtFOSA) (N-ethylperfluoro-1-octanesulfonamide (EtFOSA)) (CAS No.: 4151-50-2)                                                           | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.           |
| N-甲基全氟正辛磺醯胺 (N-Me-FOSA) (N-Methyl-Perfluorooctanesulfonamide (N-Me-FOSA)) (CAS No.: 31506-32-8)                                                     | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.           |
| N-乙基全氟辛基磺醯胺乙醇 (N-Et-FOSE alcohol) (N-Ethyl-Perfluorooctanesulfonamidoethanol (N-Et-FOSE alcohol)) (CAS No.: 1691-99-2)                              | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.           |
| N-甲基全氟辛基磺醯胺乙醇 (N-Me-FOSE alcohol) (N-Methyl-Perfluorooctanesulfonamidoethanol (N-Me-FOSE alcohol)) (CAS No.: 24448-09-7)                            | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.           |
| 全氟辛基磺醯胺及其鹽類 (PFOSA and its salts) (Perfluorooctanesulfonamide and its salts (PFOSA and its salts)) (CAS No.: 754-91-6 and its salts)                | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.           |
| 全氟辛烷磺醯胺乙酸及其鹽類 (FOSAA and its salts) (Perfluorooctane sulfonamidoacetic acid and its salts (FOSAA and its salts)) (CAS No.: 2806-24-8 and its salts) | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.           |

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台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

| 測試項目<br>(Test Items)                                                                                                                                                    | 測試方法<br>(Method)                                                                                   | 單位<br>(Unit) | MDL  | 結果<br>(Result) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------|------|----------------|
|                                                                                                                                                                         |                                                                                                    |              |      | No.1           |
| N-甲基全氟辛烷磺酰胺乙酸及其鹽類 (N-MeFOSAA and its salts) (N-methylperfluorooctane sulfonamidoacetic acid and its salts (N-MeFOSAA and its salts)) (CAS No.: 2355-31-9 and its salts) | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.           |
| N-乙基全氟辛烷磺酰胺乙酸及其鹽類 (N-EtFOSAA and its salts) (N-ethylperfluorooctane sulfonamidoacetic acid and its salts (N-EtFOSAA and its salts)) (CAS No.: 2991-50-6 and its salts)  | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.           |
| PFOA及其鹽類 (PFOA and its salts)                                                                                                                                           |                                                                                                    |              |      |                |
| 全氟辛酸及其鹽類 (PFOA and its salts) (Perfluorooctanoic acid and its salts (PFOA and its salts)) (CAS No.: 335-67-1 and its salts)                                             | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.           |
| PFOA相關化合物 (PFOA related compounds)                                                                                                                                      |                                                                                                    |              |      |                |
| 6:8全氟次磷酸 (6:8 PFPI) (6:8 Perfluorophosphinic acid (6:8 PFPI)) (CAS No.: 610800-34-5)                                                                                    | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.           |
| 全氟辛酸甲酯 (Me-PFOA) (Methyl perfluorooctanoate (Me-PFOA)) (CAS No.: 376-27-2)                                                                                              | 修改EN 17681-1: 2025 · 以氣相層析質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by GC/MS.)      | mg/kg        | 0.1  | n.d.           |
| 全氟辛酸乙酯 (Et-PFOA) (Ethyl perfluorooctanoate (Et-PFOA)) (CAS No.: 3108-24-5)                                                                                              | 修改EN 17681-1: 2025 · 以氣相層析質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by GC/MS.)      | mg/kg        | 0.1  | n.d.           |
| 全氟辛基碘烷 (PFOI) (Perfluoro-1-iodooctane (PFOI)) (CAS No.: 507-63-1)                                                                                                       | 修改EN 17681-1: 2025 · 以氣相層析質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by GC/MS.)      | mg/kg        | 0.1  | n.d.           |

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台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

| 測試項目<br>(Test Items)                                                                                                                                                      | 測試方法<br>(Method)                                                                                                     | 單位<br>(Unit) | MDL  | 結果<br>(Result) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|------|----------------|
|                                                                                                                                                                           |                                                                                                                      |              |      | No.1           |
| 3-全氟庚基丙酸 (7:3 FTCA) (3-Perfluoroheptyl propanoic acid (7:3 FTCA)) (CAS No.: 812-70-4)                                                                                     | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.)                   | mg/kg        | 0.01 | n.d.           |
| 2H-全氟-2-癸烯酸 (8:2 FTUCA) (2H-Perfluoro-2-decenoic acid (8:2 FTUCA)) (CAS No.: 70887-84-2)                                                                                  | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.)                   | mg/kg        | 0.01 | n.d.           |
| 8:8全氟次磷酸及其鹽類 (8:8 PFPI and its salts) (8:8 Perfluorophosphinic acid and its salts (8:8 PFPI and its salts)) (CAS No.: 40143-79-1 and its salts)                           | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.)                   | mg/kg        | 0.01 | n.d.           |
| 單-[2-(全氟辛基)乙烷]磷酸酯及其鹽類 (8:2 monoPAP and its salts) (Mono-[2-(perfluorooctyl)ethyl]phosphate and its salts (8:2 monoPAP and its salts)) (CAS No.: 57678-03-2 and its salts) | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.)                   | mg/kg        | 0.1  | n.d.           |
| 1H,1H,2H,2H-全氟癸磺酸及其鹽類 (8:2 FTS and its salts) (1H,1H,2H,2H-Perfluorodecanesulfonic acid and its salts (8:2 FTS and its salts)) (CAS No.: 39108-34-4 and its salts)        | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.)                   | mg/kg        | 0.01 | n.d.           |
| 1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH) (1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)) (CAS No.: 678-39-7)                                                                           | 修改EN 17681-1: 2025 · 以氣相層析質譜儀及液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by GC/MS and LC/MS/MS.) | mg/kg        | 0.1  | n.d.           |
| 1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2 FTA) (1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)) (CAS No.: 27905-45-9)                                                                      | 修改EN 17681-1: 2025 · 以氣相層析質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by GC/MS.)                        | mg/kg        | 0.1  | n.d.           |
| 1H,1H,2H,2H-全氟癸基甲基丙烯酸酯 (8:2 FTMA) (1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)) (CAS No.: 1996-88-9)                                                               | 修改EN 17681-1: 2025 · 以氣相層析質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by GC/MS.)                        | mg/kg        | 0.1  | n.d.           |

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## 測試報告

## Test Report

號碼(No.): ETR26101440

日期(Date): 14-Jan-2026

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龍德數位科技有限公司 (LONGDER DIGITAL TECHNOLOGY CO., LTD.)

台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

| 測試項目<br>(Test Items)                                                                                                                                                    | 測試方法<br>(Method)                                                                                   | 單位<br>(Unit) | MDL  | 結果<br>(Result) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------|------|----------------|
|                                                                                                                                                                         |                                                                                                    |              |      | No.1           |
| 2H,2H-全氟癸酸及其鹽類 (H2PFDA and its salts) (2H,2H-Perfluorodecane acid and its salts (H2PFDA and its salts)) (CAS No.: 27854-31-5 and its salts)                             | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.           |
| 1H,1H,2H,2H-全氟癸基碘 (8_2 FTI) (1H,1H,2H,2H-Perfluorodecyl iodide (8_2 FTI)) (CAS No.: 2043-53-0)                                                                          | 修改EN 17681-1: 2025 · 以氣相層析質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by GC/MS.)      | mg/kg        | 0.1  | n.d.           |
| 1H,1H,2H,2H-全氟十七烷三甲基氧矽烷 (8:2 FTSi(OC2H5)3) (1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC2H5)3)) (CAS No.: 101947-16-4)                                        | 修改EN 17681-1: 2025 · 以氣相層析質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by GC/MS.)      | mg/kg        | 0.1  | n.d.           |
| 2H,2H,3H,3H-全氟十一烷酸及其鹽類 (4HPFUnA and its salts) (2H,2H,3H,3H-Perfluoroundecanoic Acid and its salts (4HPFUnA and its salts)) (CAS No.: 34598-33-9 and its salts)         | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.           |
| 1H,1H,2H-全氟-1-癸烯 (PFDE) (1H,1H,2H-Heptadecafluoro-1-decene (PFDE)) (CAS No.: 21652-58-4)                                                                                | 修改EN 17681-1: 2025 · 以氣相層析質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by GC/MS.)      | mg/kg        | 0.1  | n.d.           |
| 雙(1H,1H,2H,2H-全氟癸基)磷酸酯及其鹽類 (8_2diPAP and its salts) (Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate and its salts (8_2diPAP and its salts)) (CAS No.: 678-41-1 and its salts) | 修改EN 17681-1: 2025 · 以液相層析串聯質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by LC/MS/MS.) | mg/kg        | 0.01 | n.d.           |
| 1H,1H,2H,2H-全氟癸基三氯矽烷 (1H,1H,2H,2H-Perfluorodecyltrichlorosilane) (CAS No.: 78560-44-8)                                                                                  | 修改EN 17681-1: 2025 · 以氣相層析質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by GC/MS.)      | mg/kg        | 0.1  | n.d.           |
| 1H,1H,2H,2H-全氟癸基三甲氧基矽烷 (1H,1H,2H,2H-Perfluorodecyltrimethoxysilane) (CAS No.: 83048-65-1)                                                                               | 修改EN 17681-1: 2025 · 以氣相層析質譜儀分析。(Modified EN 17681-1: 2025, analysis was performed by GC/MS.)      |              |      |                |

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測試報告

Test Report

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龍德數位科技有限公司 (LONGDER DIGITAL TECHNOLOGY CO., LTD.)  
台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

| 測試項目<br>(Test Items)                                                                                           | 測試方法<br>(Method)                                                                                   | 單位<br>(Unit) | MDL | 結果<br>(Result) |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------|-----|----------------|
|                                                                                                                |                                                                                                    |              |     | No.1           |
| 2-全氟辛基乙基乙酸酯 (8:2 FTOAc)<br>(1H,1H,2H,2H-Heptadecafluorodecyl<br>acetate (8:2 FTOAc)) (CAS No.: 37858-<br>04-1) | 修改EN 17681-1: 2025，以氣相層析質譜儀<br>分析。(Modified EN 17681-1: 2025,<br>analysis was performed by GC/MS.) | mg/kg        | 0.1 | n.d.           |

備註(Note)：

- 1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出) ; 小於MDL / Less than MDL
- 4. "-" = Not Regulated (無規格值)
- 5. 樣品的測試是基於申請人要求混合測試，報告中的混合測試結果不代表其中個別單一材質的含量。  
The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above  
result(s) was/were only given as the informality value.

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號碼(No.): ETR26101440

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龍德數位科技有限公司 (LONGDER DIGITAL TECHNOLOGY CO., LTD.)

台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

## PFAS Remark :

現有PFAS定量技術是分析PFAS物質的特定結構，但同碳數族群之PFAS酸及鹽類物質，其可被辨識的特定結構相同，因此無法區別所分析的特定結構是來自酸或者鹽類，故測試結果為同碳數族群之PFAS之酸及鹽類物質的濃度總合。下表PFAS物質濃度皆已包含在測試結果中，相關資訊請參見下表：(下表列舉PFAS物質僅為範例，並不包含所有同碳數族群之PFAS鹽類。)

(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

| 群組名稱<br>(Group Name)                             | 物質名稱<br>(Substance Name)                                                                                                                                                          | CAS No.     |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| PFOS, 及其鹽&衍生物<br>(PFOS, its salts & derivatives) | 全氟辛烷磺酸 (Perfluorooctane sulfonates) (PFOS)                                                                                                                                        | 1763-23-1   |
|                                                  | 全氟辛基磺酸鉀 (PFOS-K)<br>Potassium perfluorooctanesulfonate (PFOS-K)                                                                                                                   | 2795-39-3   |
|                                                  | 全氟辛基磺酸鋰 (PFOS-Li)<br>Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)                                                                                                         | 29457-72-5  |
|                                                  | 全氟辛基磺酸銨 (PFOS-NH <sub>4</sub> )<br>Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )                                                                            | 29081-56-9  |
|                                                  | 全氟辛基磺酸二乙醇銨 (PFOS-NH(C <sub>2</sub> H <sub>4</sub> OH) <sub>2</sub> )<br>Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(C <sub>2</sub> H <sub>4</sub> OH) <sub>2</sub> )   | 70225-14-8  |
|                                                  | 全氟辛基磺酸四乙基銨 (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )<br>Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> ) | 56773-42-3  |
|                                                  | 全氟辛基磺酸二癸二甲基銨 (PFOS-DDA)<br>N-decyl-N,N-dimethyldecan-1-aminium<br>1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)                                  | 251099-16-8 |
|                                                  | 全氟辛基磺酸四丁基銨 (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )<br>TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )           | 111873-33-7 |
|                                                  | 全氟辛基磺酰氟 (POSF)<br>Perfluorooctane sulfonyl fluoride (POSF)                                                                                                                        | 307-35-7    |
|                                                  | 全氟辛基磺酸鎂 (PFOS-Mg)<br>Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)                                                                                                       | 91036-71-4  |
|                                                  | 全氟辛基磺酸鈉 (PFOS-Na)<br>Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)                                                                                                          | 4021-47-0   |

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## 測試報告

## Test Report

號碼(No.): ETR26101440

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龍德數位科技有限公司 (LONGDER DIGITAL TECHNOLOGY CO., LTD.)

台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

| 群組名稱<br>(Group Name)                             | 物質名稱<br>(Substance Name)                                                                                                                                                                                                                                                                                                                                              | CAS No.     |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| PFOS, 及其鹽&衍生物<br>(PFOS, its salts & derivatives) | 全氟辛烷磺酸哌啶<br>Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate                                                                                                                                                                                                                                                                               | 71463-74-6  |
|                                                  | 全氟辛烷磺酸鹽<br>Perfluorooctanesulfonate (anion)                                                                                                                                                                                                                                                                                                                           | 45298-90-6  |
|                                                  | 全氟辛烷磺酸與 N,N-二乙基乙胺 (1:1) (PFOS-NH(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )<br>1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-NH(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )                                                                                                         | 54439-46-2  |
|                                                  | N,N,N-三甲基-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸甲銨(1:1) (PFOS-N(CH <sub>3</sub> ) <sub>4</sub> )<br>Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(CH <sub>3</sub> ) <sub>4</sub> )                                                                                                         | 56773-44-5  |
|                                                  | 1-五胺 · N,N,N-三丙基-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽(1:1) (PFOS-N(C <sub>3</sub> H <sub>7</sub> ) <sub>3</sub> (C <sub>5</sub> H <sub>11</sub> ))<br>1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C <sub>3</sub> H <sub>7</sub> ) <sub>3</sub> (C <sub>5</sub> H <sub>11</sub> )) | 56773-56-9  |
|                                                  | 1-丁銨 · N,N-二丁基-N-甲基- · 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽 (1:1) (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))<br>1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))                      | 124472-68-0 |
|                                                  | 碘鎗 · 雙[4-(1,1-二甲基乙基)苯基] - · 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽 (1:1)<br>Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)                                                                                                                                                             | 213740-80-8 |
|                                                  | 二苯基鎗(2,4,6-三甲基苯基)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽 (1:1)<br>Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)                                                                                                                                                                     | 258341-99-0 |
|                                                  | 吡啶鎗 · 1-十六烷基- · 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽 (1:1)<br>Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)                                                                                                                                                                                            | 334529-63-4 |

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## 測試報告

## Test Report

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龍德數位科技有限公司 (LONGDER DIGITAL TECHNOLOGY CO., LTD.)

台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

| 群組名稱<br>(Group Name)                             | 物質名稱<br>(Substance Name)                                                                                                                                                                                                                    | CAS No.      |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| PFOS, 及其鹽&衍生物<br>(PFOS, its salts & derivatives) | 1-癸胺 · N,N,N-三乙基- · 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-1-辛烷磺酸鹽(1:1)<br>1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)                                                        | 773895-92-4  |
|                                                  | 全氟辛烷磺酸四丁基磷 (PFOS-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )<br>Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                                                                 | 2185049-59-4 |
|                                                  | 全氟辛烷磺酸二乙胺鹽 (PFOS-C <sub>4</sub> H <sub>11</sub> N)<br>Perfluorooctanesulfonic acid diethylamine salt (PFOS-C <sub>4</sub> H <sub>11</sub> N)                                                                                                | 2205029-08-7 |
|                                                  | 庚基二甲基(2-[(2-甲基丙-2-烯酰基)氧基]乙基)全氟辛烷磺酸氮鎢鹽 (PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> )<br>Heptyldimethyl(2-[(2-methylprop-2-enoyl)oxy]ethyl)azanium perfluorooctanesulfonate (PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> ) | 1203998-97-3 |
|                                                  | 1-辛烷磺酸 · 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-, 1,1'-酸酐 (PFOSAN)<br>1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, 1,1'-anhydride (PFOSAN)                                                                     | 423-92-7     |
|                                                  | 全氟辛基磺酰氯 (PFOS-Cl)<br>Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)                                                                                                                                                                          | 423-60-9     |
| PFOSA, 及其鹽<br>(PFOSA, its salts)                 | 全氟辛基磺酰胺 (Perfluorooctanesulfonamide) (PFOSA)                                                                                                                                                                                                | 754-91-6     |
|                                                  | 全氟辛基磺酰胺鋰鹽 (1:1) (PFOSA-Li)<br>Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)                                                                                                                                                      | 76752-79-9   |
|                                                  | 全氟辛基磺酰胺鈉鹽 (1:1) (PFOSA-Na)<br>Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)                                                                                                                                                       | 76752-78-8   |
|                                                  | 全氟辛基磺酰胺鉀鹽 (1:1) (PFOSA-K)<br>Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)                                                                                                                                                      | 76752-70-0   |
|                                                  | 全氟辛基磺酰胺銨鹽 (1:1) (PFOSA-NH <sub>4</sub> )<br>Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH <sub>4</sub> )                                                                                                                         | 76752-72-2   |
|                                                  | 全氟辛基磺酰胺三乙胺的化合物(1:1) (PFOSA-C <sub>6</sub> H <sub>15</sub> N)<br>heptadecafluorooctane-1-sulphonamide, compound with triethylamine(1:1) (PFOSA-C <sub>6</sub> H <sub>15</sub> N)                                                             | 76752-82-4   |

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# 測試報告

## Test Report

號碼(No.): ETR26101440      日期(Date): 14-Jan-2026      頁數(Page): 12 of 23

龍德數位科技有限公司 (LONGDER DIGITAL TECHNOLOGY CO., LTD.)  
 台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

| 群組名稱<br>(Group Name)                             | 物質名稱<br>(Substance Name)                                                                                                                                        | CAS No.     |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| PFOA, 及其鹽&衍生物<br>(PFOA, its salts & derivatives) | 全氟辛酸 (Perfluorooctanoic acid) (PFOA)                                                                                                                            | 335-67-1    |
|                                                  | 全氟辛酸鈉 (PFOA-Na)<br>Sodium perfluorooctanoate (PFOA-Na)                                                                                                          | 335-95-5    |
|                                                  | 全氟辛酸鉀 (PFOA-K)<br>Potassium perfluorooctanoate (PFOA-K)                                                                                                         | 2395-00-8   |
|                                                  | 全氟辛酸銀 (PFOA-Ag)<br>Silver perfluorooctanoate (PFOA-Ag)                                                                                                          | 335-93-3    |
|                                                  | 全氟辛氟 (PFOA-F)<br>Perfluorooctanoyl fluoride (PFOA-F)                                                                                                            | 335-66-0    |
|                                                  | 全氟辛酸銨 (APFO)<br>Ammonium pentadecafluorooctanoate (APFO)                                                                                                        | 3825-26-1   |
|                                                  | 全氟辛酸鋰 (PFOA-Li)<br>Lithium perfluorooctanoate (PFOA-Li)                                                                                                         | 17125-58-5  |
|                                                  | 全氟辛酸鈷 (PFOA-Co)<br>Cobalt perfluorooctanoate (PFOA-Co)                                                                                                          | 35965-01-6  |
|                                                  | 全氟辛酸銫 (PFOA-Cs)<br>Cesium perfluorooctanoate (PFOA-Cs)                                                                                                          | 17125-60-9  |
|                                                  | 全氟辛酸鉻 (PFOA-Cr(3+))<br>Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))                                                | 68141-02-6  |
|                                                  | 全氟辛酸-哌嗪(2:1) PFOA-NH(C <sub>4</sub> H <sub>10</sub> N)<br>Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH(C <sub>4</sub> H <sub>10</sub> N)               | 423-52-9    |
|                                                  | 全氟辛酸鹽<br>Pentadecafluorooctanoate (anion)                                                                                                                       | 45285-51-6  |
|                                                  | 全氟辛酸酐<br>Perfluorooctanoic Anhydride                                                                                                                            | 33496-48-9  |
|                                                  | 乙銨 · N,N,N-三乙基-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸 (1:1)<br>Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)       | 98241-25-9  |
|                                                  | 全氟辛酸四甲銨鹽<br>Tetramethylammoniumperfluorooctanoat                                                                                                                | 32609-65-7  |
|                                                  | 1-丙銨 · N,N,N-三丙基-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸 (1:1)<br>1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) | 277749-00-5 |

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## 測試報告

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龍德數位科技有限公司 (LONGDER DIGITAL TECHNOLOGY CO., LTD.)

台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

| 群組名稱<br>(Group Name)                             | 物質名稱<br>(Substance Name)                                                                                                                                                                                                                            | CAS No.      |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| PFOA, 及其鹽&衍生物<br>(PFOA, its salts & derivatives) | 辛酸 · 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟-鉀鹽 · 水合物 (1:1:2) (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )<br>Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )         | 98065-31-7   |
|                                                  | 辛酸 · 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟- · 化合物 · 與乙胺 (1:1) (PFOA-C <sub>2</sub> H <sub>7</sub> N)<br>Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA-C <sub>2</sub> H <sub>7</sub> N)              | 1376936-03-6 |
|                                                  | 十五氟辛酸化合物與吡啶 (1:1) (9CI) (PFOA-C <sub>5</sub> H <sub>5</sub> N)<br>Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI) (PFOA-C <sub>5</sub> H <sub>5</sub> N)                                                                          | 95658-47-2   |
|                                                  | 十五氟辛酸-1-苯基哌嗪(1:1) (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> )<br>Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> )                                                            | 1514-68-7    |
|                                                  | 1-辛酸 · N,N,N-三甲基- · 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十五氟辛酸 (1:1) (PFOA- C <sub>11</sub> H <sub>26</sub> N)<br>1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) (PFOA- C <sub>11</sub> H <sub>26</sub> N) | 927835-01-6  |
|                                                  | 全氟辛醯氯 (PFOA-Cl)<br>Pentadecafluorooctanoyl chloride (PFOA-Cl)                                                                                                                                                                                       | 335-64-8     |
|                                                  | 全氟辛醯溴 (PFOA-Br)<br>Perfluorooctanoyl Bromide (PFOA-Br)                                                                                                                                                                                              | 222037-87-8  |
| 8:2 monoPAP, 及其鹽<br>(8:2 monoPAP, its salts)     | 單-[2-(全氟辛基)乙基]磷酸酯 (Mono-[2-(perfluorooctyl)ethyl]phosphate) (8:2 monoPAP)                                                                                                                                                                           | 57678-03-2   |
|                                                  | 8:2氟調聚物磷酸二銨鹽<br>8:2 Fluorotelomer diammonium phosphate                                                                                                                                                                                              | 93857-44-4   |
|                                                  | 8:2氟調聚物磷酸鈉鹽<br>Disodium 1H,1H,2H,2H-perfluorodecylphosphate                                                                                                                                                                                         | 438237-75-3  |
|                                                  | 雙[2-(全氟辛基)乙基]磷酸銨鹽<br>Ammonium bis[2-(perfluorohexyl)ethyl] phosphate                                                                                                                                                                                | 1764-95-0    |
|                                                  | 單[2-(全氟辛基)乙基]磷酸銨鹽<br>3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt                                                                                                                                                         | 92401-44-0   |
|                                                  | 單[2-(全氟辛基)乙基]磷酸鹽單鈉鹽<br>Sodium 1H,1H,2H,2H-perfluorooctylphosphate                                                                                                                                                                                   | 144965-22-0  |

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龍德數位科技有限公司 (LONGDER DIGITAL TECHNOLOGY CO., LTD.)

台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

| 群組名稱<br>(Group Name)                         | 物質名稱<br>(Substance Name)                                                                                                                  | CAS No.     |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 8:2 monoPAP, 及其鹽<br>(8:2 monoPAP, its salts) | 單[2-(全氟辛基)乙基]磷酸單鉀鹽<br>Monopotassium monoperfluorohexyl ethylphosphate                                                                     | 150033-28-6 |
|                                              | 單[2-(全氟辛基)乙基]磷酸氫銨鹽<br>Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate                                                                 | 2353-52-8   |
| 8:2 FTS, 及其鹽<br>(8:2 FTS, its salts)         | 1H,1H,2H,2H-全氟癸磺酸 (1H,1H,2H,2H-Perfluorodecanesulfonic acid) (8:2 FTS)                                                                    | 39108-34-4  |
|                                              | 1H, 1H, 2H, 2H-全氟癸磺酸鉀 (8:2 FTS-K)<br>1H,1H,2H,2H-Perfluorododecane sulfonate acid Potassium salt (8:2 FTS-K)                              | 438237-73-1 |
|                                              | 1H, 1H, 2H, 2H-全氟癸磺酸銨 (8:2 FTS-NH <sub>4</sub> )<br>1H,1H,2H,2H-Perfluorododecane sulfonate acid Ammonium salt (8:2 FTS-NH <sub>4</sub> ) | 149724-40-3 |
|                                              | 1H, 1H, 2H, 2H-全氟癸磺酸鈉 (8:2 FTS-Na)<br>1H,1H,2H,2H-Perfluorododecane sulfonate acid Sodium salt (8:2 FTS-Na)                               | 27619-96-1  |
|                                              | 1H,1H,2H,2H-全氟癸磺酸鹽 (8:2 FTS(anion))<br>8: 2 Fluorotelomer sulfonate (anion) (8:2 FTS(anion))                                              | 481071-78-7 |
|                                              | 1H,1H,2H,2H-全氟癸磺酰氯 (8:2 FTS-Cl)<br>2-(Perfluorooctyl)ethanesulfonyl chloride (8:2 FTS-Cl)                                                 | 27619-90-5  |
| H2PFDA, 及其鹽<br>(H2PFDA, its salts)           | 2H,2H-全氟癸酸 (2H,2H-Perfluorodecane acid) (H2PFDA)                                                                                          | 27854-31-5  |
|                                              | 四丁基磷2H,2H-全氟癸酸酯<br>Tetrabutylphosphonium 2H,2H-Perfluorodecanoate                                                                         | 882489-14-7 |
| 4HPFUnA, 及其鹽<br>(4HPFUnA, its salts)         | 2H,2H,3H,3H-全氟十一烷酸 (2H,2H,3H,3H-Perfluoroundecanoic Acid) (4HPFUnA)                                                                       | 34598-33-9  |
|                                              | 2H,2H,3H,3H-全氟十一烷酸鉀 (H4PFUnA-K)<br>Potassium 2H,2H,3H,3H-Perfluoroundecanoate (H4PFUnA-K)                                                 | 83310-58-1  |
|                                              | 2H,2H,3H,3H-全氟十一烷酸鋰 (H4PFUnA-Li)<br>Lithium 3-(perfluorooctyl)propanoate (H4PFUnA-Li)                                                     | 67304-23-8  |
| 8:2diPAP, 及其鹽<br>(8:2diPAP, its salts)       | 雙(1H,1H,2H,2H-全氟癸基)磷酸酯 (Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate) (8:2diPAP)                                                              | 678-41-1    |
|                                              | 雙(1H,1H,2H,2H-全氟癸基)磷酸酯鈉 (8:2diPAP-Na)<br>Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)                                    | 114519-85-6 |

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台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

| 群組名稱<br>(Group Name)                     | 物質名稱<br>(Substance Name)                                                                                                          | CAS No.      |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------|
| 8:2diPAP, 及其鹽<br>(8:2diPAP, its salts)   | 雙(2-羥乙基)雙((全氟辛基)乙基)磷酸氫銨<br>Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl)hydrogen phosphate                               | 57677-97-1   |
|                                          | 雙[2-(全氟辛基)乙基]磷酸銨鹽 (8:2diPAP-NH <sub>4</sub> )<br>Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2diPAP-NH <sub>4</sub> ) | 93776-20-6   |
|                                          | 8:2 氟調聚物磷酸二酯離子<br>8:2 Fluorotelomer phosphate diester ion                                                                         | 1411713-91-1 |
| FOSAA, 及其鹽<br>(FOSAA, its salts)         | 全氟辛烷磺酰胺乙酸 (Perfluorooctane sulfonamidoacetic acid) (FOSAA)                                                                        | 2806-24-8    |
|                                          | 全氟辛烷磺酰胺乙酸鹽 (FOSAA(anion))<br>N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))                                                 | 909405-47-6  |
|                                          | 全氟辛烷磺酰胺乙酸鉀 (FOSAA-K)<br>N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)                                        | 75260-69-4   |
|                                          | 全氟辛烷磺酰胺乙酸鈉 (FOSAA-Na)<br>N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)                                         | 115716-87-5  |
| N-MeFOSAA, 及其鹽<br>(N-MeFOSAA, its salts) | N-甲基全氟辛烷磺酰胺乙酸 (N-methylperfluorooctane sulfonamidoacetic acid) (N-MeFOSAA)                                                        | 2355-31-9    |
|                                          | N-甲基全氟辛烷磺酰胺乙酸鹽 (N-Me-FOSAA(anion))<br>2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))                           | 909405-48-7  |
|                                          | N-甲基全氟辛烷磺酰胺乙酸鉀 (N-Me-FOSAA-K)<br>Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)                   | 70281-93-5   |
| N-EtFOSAA, 及其鹽<br>(N-EtFOSAA, its salts) | N-乙基全氟辛烷磺酰胺乙酸 (N-ethylperfluorooctane sulfonamidoacetic) (N-EtFOSAA)                                                              | 2991-50-6    |
|                                          | N-乙基全氟辛烷磺酰胺乙酸鉀 (N-Et-FOSAA-K)<br>Potassium N-ethyl-N-((heptadecafluorooctyl)sulphonyl)glycinate (N-Et-FOSAA-K)                    | 2991-51-7    |
|                                          | N-乙基全氟辛烷磺酰胺乙酸鹽 (N-Et-FOSAA(anion))<br>2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))                           | 909405-49-8  |

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Test Report

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台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

| 群組名稱<br>(Group Name)                     | 物質名稱<br>(Substance Name)                                                                                  | CAS No.     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------|
| N-EtFOSAA, 及其鹽<br>(N-EtFOSAA, its salts) | N-乙基全氟辛烷磺酰胺乙酸氨 (N-Et-FOSAA-NH4)<br>Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH4) | 2991-52-8   |
|                                          | N-乙基全氟辛烷磺酰胺乙酸鈉 (N-Et-FOSAA-Na)<br>Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)     | 3871-50-9   |
| 8:8 PFPI, 及其鹽<br>(8:8 PFPI, its salts)   | 8:8全氟次磷酸 (8:8 Perfluorophosphinic acid) (8:8 PFPI)                                                        | 40143-79-1  |
|                                          | 8:8 全氟次磷酸鈉 (8:8 PFPI-Na)<br>Sodium bis(perfluorooctyl)phosphinate (8:8 PFPI-Na)                           | 500776-69-2 |
|                                          | 8:8全氟次磷酸銲 (8:8 PFPI-Er)<br>Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPI-Er)              | 500776-70-5 |
|                                          | 8:8全氟次磷酸鐿 (8:8 PFPI-Yb)<br>Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPI-Yb)           | 500776-71-6 |

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## 測試報告

## Test Report

號碼(No.): ETR26101440

日期(Date): 14-Jan-2026

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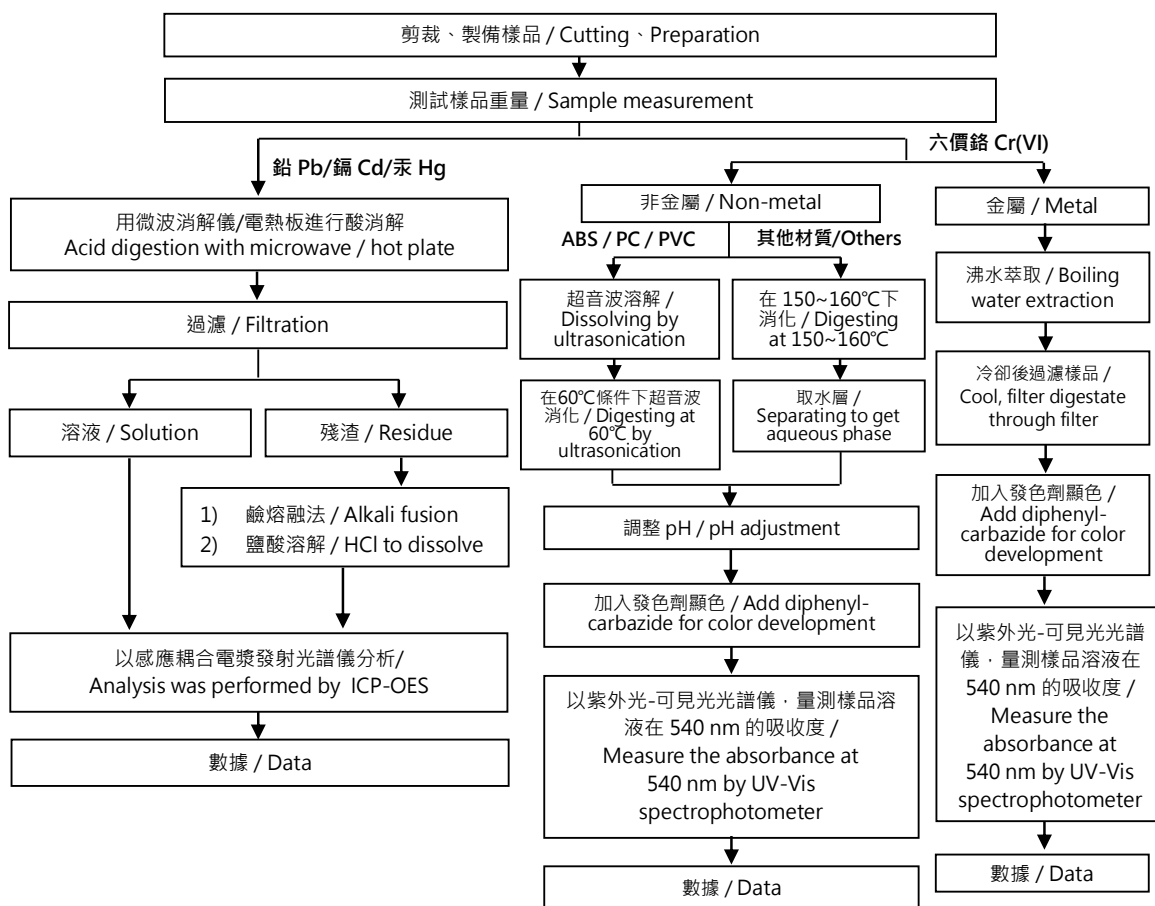
龍德數位科技有限公司 (LONGDER DIGITAL TECHNOLOGY CO., LTD.)

台南市南區新和一路3巷3號 (NO. 3, LANE 3, SINHE 1ST RD., SOUTH DISTRICT, TAINAN CITY 70248, TAIWAN (R. O. C.))

## 重金屬流程圖 / Analytical flow chart of heavy metal

根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr<sup>6+</sup> test method excluded)

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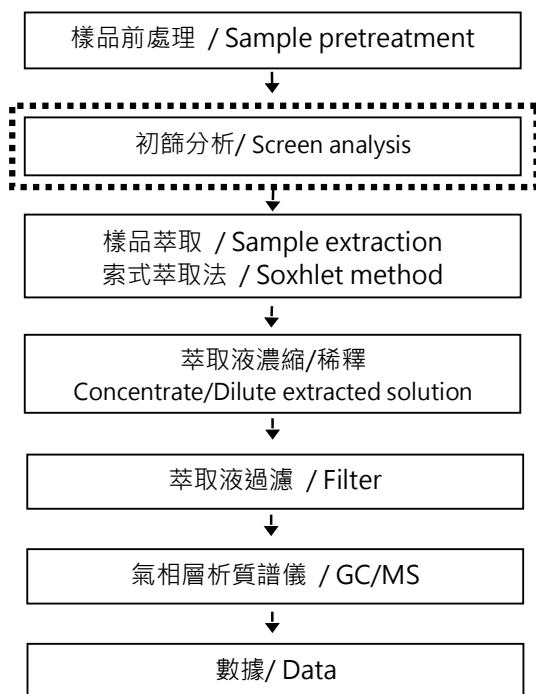
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### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs

初次測試程序 / First testing process —————→  
 選擇性篩檢程序 / Optional screen process .....  
 確認程序 / Confirmation process - - - ->



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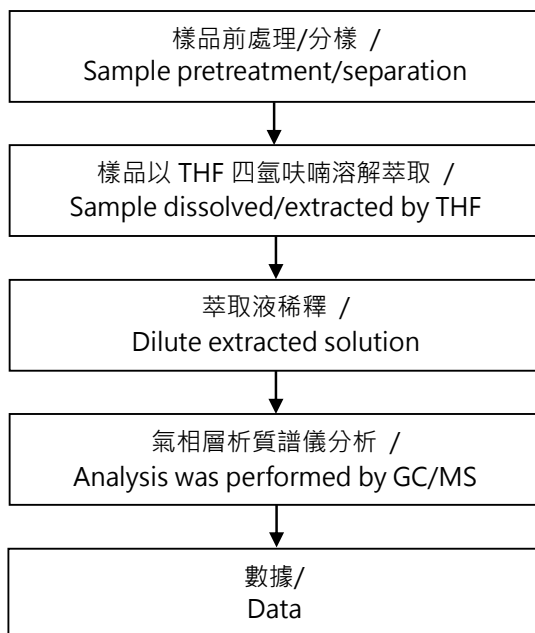
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### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



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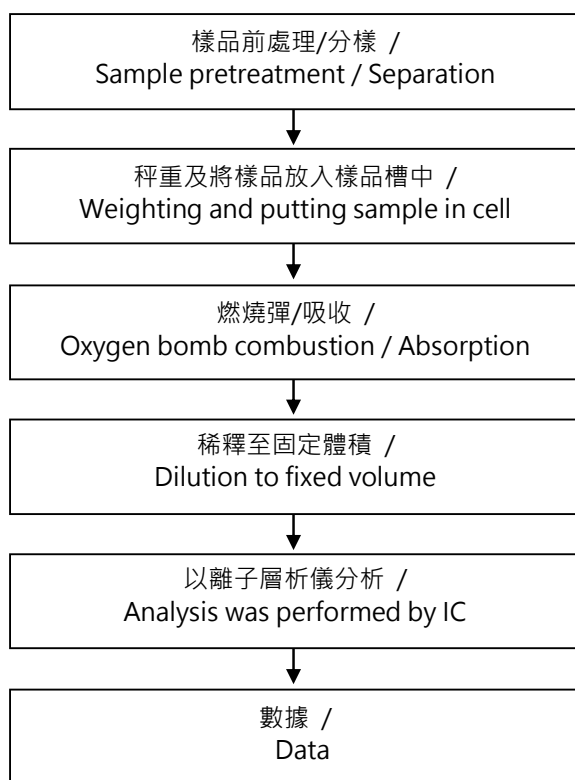
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### 鹵素分析流程圖 / Analytical flow chart - Halogen



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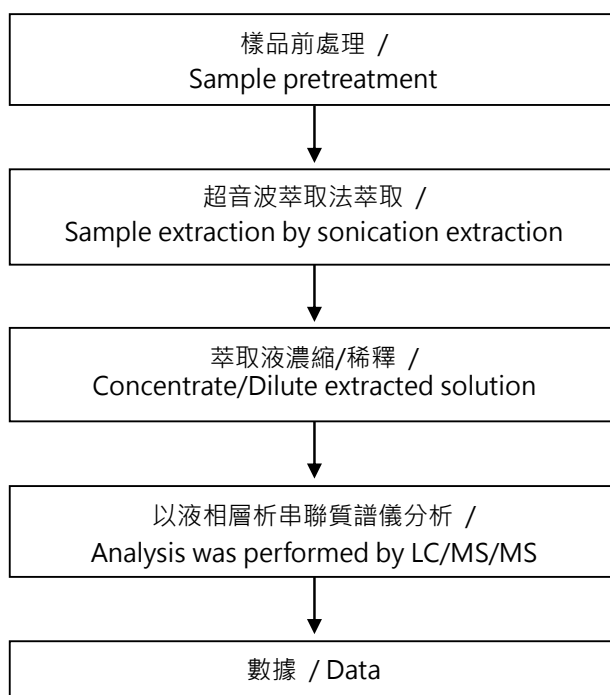
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### 雙酚A分析流程圖 / Analytical flow chart - Bisphenol A



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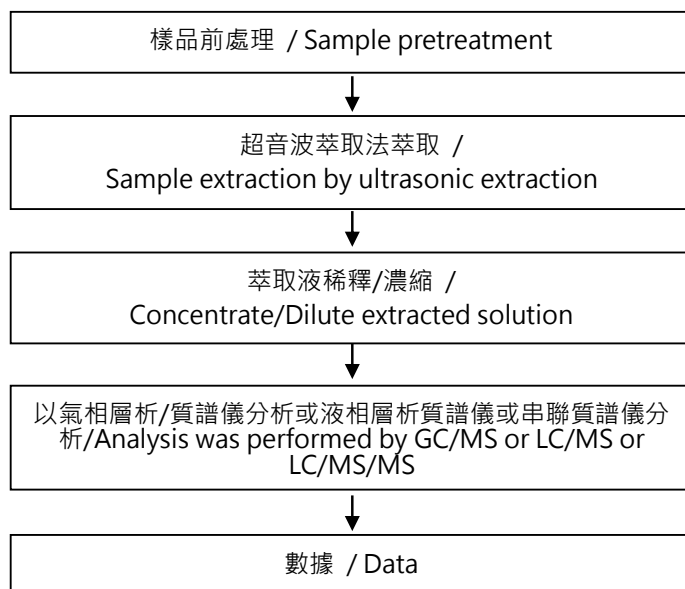
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### 全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*

(The tested sample / part is marked by an arrow if it's shown on the photo.)

### ETR26101440



\*\* 報告結尾 (End of Report) \*\*

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