

試驗報告

號碼(No.) : KA/2018/80642 日期(Date) : 2018/08/16

頁數(Page): 1 of 14

Test Report

光頤科技股份有限公司高雄分公司
VIKING TECH CORPORATION KAOHSIUNG BRANCH
高雄市前鎮區新生路248-3號
NO. 284-3, SIN-SHENG RD., CIAN-JHEN DIST., KAOHSIUNG, 806, TAIWAN

以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下
(The following samples was/were submitted and identified by/on behalf of the client as) :

| | | |
|-----------------------------|---|---|
| 樣品名稱(Sample Description) | : | THICK FILM CHIP RESISTOR |
| 樣品型號(Style/Item No.) | : | CR/CN/RS/RT/AS/HVR/PWR/SWR/CS/HMR/CR..A/AS..A/CS..A/CN..A/TR CHIP |
| 樣品顏色(Color) | : | WHITE/BLACK/SILVER CHIP RESISTOR |
| 收件日期(Sample Receiving Date) | : | 2018/08/09 |
| 測試期間(Testing Period) | : | 2018/08/09 TO 2018/08/16 |
| 送樣廠商(Sample Submitted By) | : | 光頤科技股份有限公司高雄分公司 (VIKING TECH CORPORATION KAOHSIUNG BRANCH) |

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

Ray Chang



報告簽署人/Ray Chang, Ph.D./Manager-Tech
Signed for and on behalf of
SGS Taiwan Limited

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測試結果(Test Results)

測試部位(PART NAME) NO. 1 : 整體混測 (MIXED ALL PARTS)

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限值 (MDL) | 結果 (Result) |
|----------------------------------|--------------|---|----------------------|----------------|
| | | | | NO. 1 |
| 鎘 / Cadmium (Cd) | mg/kg | 參考 IEC 62321-5: 2013, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | n. d. |
| 鉛 / Lead (Pb) | mg/kg | | 2 | 573 |
| 汞 / Mercury (Hg) | mg/kg | 參考 IEC 62321-4: 2013, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES. | 2 | n. d. |
| 六價鉻 / Hexavalent Chromium Cr(VI) | mg/kg | 參考 IEC 62321-7-2:2017, 以UV-VIS檢測. / With reference to IEC 62321-7-2:2017 and performed by UV-VIS. | 8 | n. d. |
| 多溴聯苯總和 / Sum of PBBs | mg/kg | 參考 IEC 62321-6:2015, 以氣相層析/質譜儀檢測. / With reference to IEC 62321-6:2015 and performed by GC/MS. | - | n. d. |
| 一溴聯苯 / Monobromobiphenyl | 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. | |

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 VIKING TECH CORPORATION KAOHSIUNG BRANCH
 高雄市前鎮區新生路248-3號
 NO. 284-3, SIN-SHENG RD., CIAN-JHEN DIST., KAOHSIUNG, 806, TAIWAN

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限值 (MDL) | 結果 (Result) |
|---|--------------|--|----------------------|----------------|
| | | | | NO. 1 |
| 多溴聯苯醚總和 / Sum of PBDEs | mg/kg | 參考IEC 62321-6:2015, 以氣相層析/質譜儀檢測。 / With reference to IEC 62321-6:2015 and performed by GC/MS. | - | n. d. |
| 一溴聯苯醚 / Monobromodiphenyl ether | 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. | |
| 鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5) | mg/kg | 參考IEC 62321-8:2017, 以氣相層析儀/質譜儀檢測。 / With reference to IEC 62321-8:2017. Analysis was performed by GC/MS. | 50 | n. d. |
| 鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸丁苄酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No. : 117-84-0) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No. : 28553-12-0, 68515-48-0) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No. : 26761-40-0, 68515-49-1) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二乙酯 / DEP (Di-ethyl phthalate) (CAS No. : 84-66-2) | mg/kg | | 50 | n. d. |

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 VIKING TECH CORPORATION KAOHSIUNG BRANCH
 高雄市前鎮區新生路248-3號
 NO. 284-3, SIN-SHENG RD., CIAN-JHEN DIST., KAOHSIUNG, 806, TAIWAN

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限值 (MDL) | 結果 (Result) |
|--|--------------|--|----------------------|----------------|
| | | | | NO. 1 |
| 銻 / Antimony (Sb) | mg/kg | 參考US EPA 3052: 1996, 以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA 3052: 1996. Analysis was performed by ICP-AES. | 2 | n. d. |
| 砷 / Arsenic (As) | mg/kg | | 2 | n. d. |
| 鈹 / Beryllium (Be) | mg/kg | | 2 | n. d. |
| 六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | mg/kg | 參考IEC 62321: 2008, 以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008. Analysis was performed by GC/MS. | 5 | n. d. |
| 全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS) | mg/kg | 參考US EPA 3550C: 2007, 以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS. | 10 | n. d. |
| 全氟辛酸(銨) / PFOA (CAS No.: 335-67-1) | mg/kg | | 10 | n. d. |
| 鹵素 / Halogen | | | | |
| 鹵素(氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8) | mg/kg | 參考BS EN 14582:2016, 以離子層析儀檢測. / With reference to BS EN 14582:2016. Analysis was performed by IC. | 50 | n. d. |
| 鹵素(氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1) | mg/kg | | 50 | n. d. |
| 鹵素(溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2) | mg/kg | | 50 | n. d. |
| 鹵素(碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8) | mg/kg | | 50 | n. d. |

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 NO. 284-3, SIN-SHENG RD., CIAN-JHEN DIST., KAOHSIUNG, 806, TAIWAN

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限值 (MDL) | 結果 (Result) |
|--|--------------|--|----------------------|----------------|
| | | | | NO. 1 |
| 石棉 / Asbestos | | | | |
| 溫石棉(白石綿) / Chrysotile (CAS No. : 12001-29-5) | % | 參考EPA 600/R-93/116 (1993) / 立體顯微鏡 (SM), 分散染色式偏光顯微鏡 (DS-PLM)及X光繞射光譜分析法 (XRD) / With reference to EPA 600/R-93/116 (1993). Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD). | - | Negative |
| 鐵石棉(褐石綿) / Amosite (CAS No. : 12172-73-5) | % | | - | Negative |
| 青石棉 / Crocidolite (CAS No. : 12001-28-4) | % | | - | Negative |
| 斜方角閃石綿 / Anthophyllite (CAS No. : 77536-67-5) | % | | - | Negative |
| 透閃石綿 / Tremolite (CAS No. : 77536-68-6) | % | | - | Negative |
| 陽起石綿 / Actinolite (CAS No. : 77536-66-4) | % | | - | Negative |

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n. d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. 石棉定性分析試驗範圍: <0.1%-100%, 石棉鑑定的判定基準是以檢出含有石棉纖維為『Positive』, 未檢出石棉纖維為『Negative』。/ Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".
6. 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 samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm), 在半成品、成品或零部件中不得超過0.1%(1000ppm), 在紡織品或塗層材料中不得超過1µg/m²。
 (Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m².)

全氟辛烷磺酸指全氟辛烷磺酸和它的衍生物包括全氟辛烷磺酸, 全氟辛基磺醯胺, N-甲基全氟辛烷磺醯胺, N-乙基全氟辛烷磺醯胺, N-甲基全氟辛基磺醯基氨基乙醇, N-乙基全氟辛基磺醯基氨基乙醇。
 (PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.)

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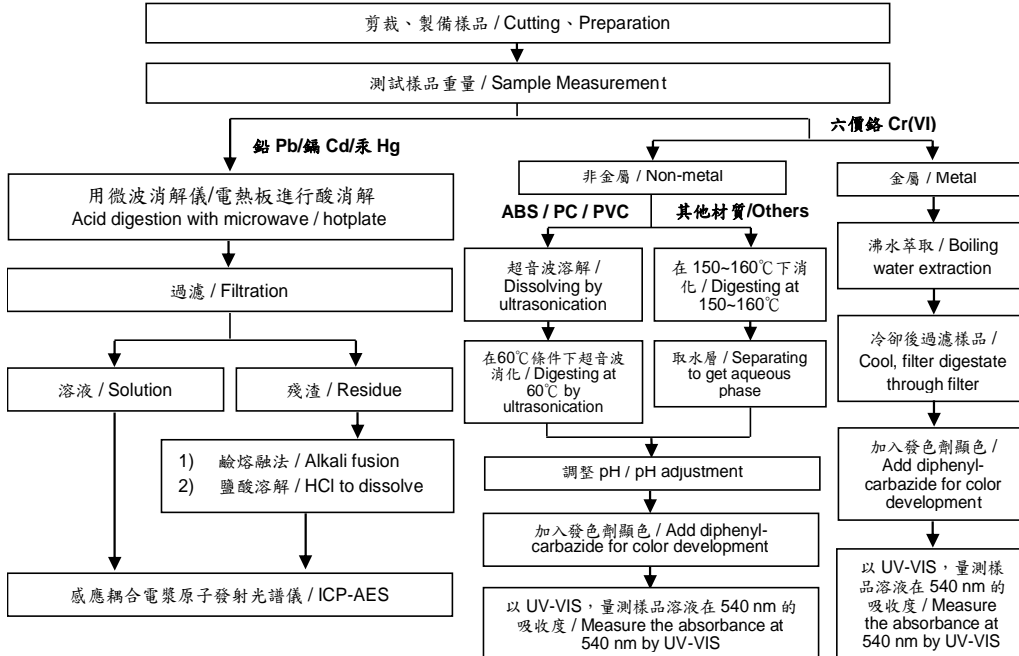
光頤科技股份有限公司高雄分公司
 VIKING TECH CORPORATION KAOHSIUNG BRANCH
 高雄市前鎮區新生路248-3號
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重金屬流程圖 / Analytical flow chart of Heavy Metal

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. (Cr⁶⁺ test method excluded)

- 測試人員：劉俊宏 / Technician : Jony Liu
- 測試負責人：張伯睿 / Supervisor: Ray Chang

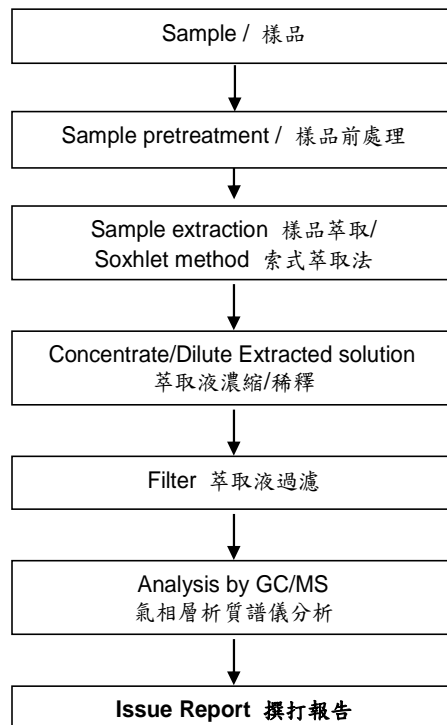


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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員：陳威錚 / Technician : Dorothy Chen
- 測試負責人：張伯睿 / Supervisor: Ray Chang



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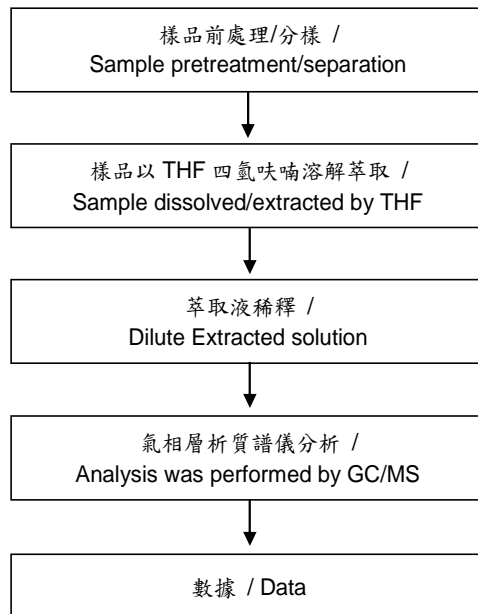
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員：陳威錚 / Technician : Dorothy Chen
- 測試負責人：張伯睿 / Supervisor: Ray Chang

【測試方法/Test method: IEC 62321-8】



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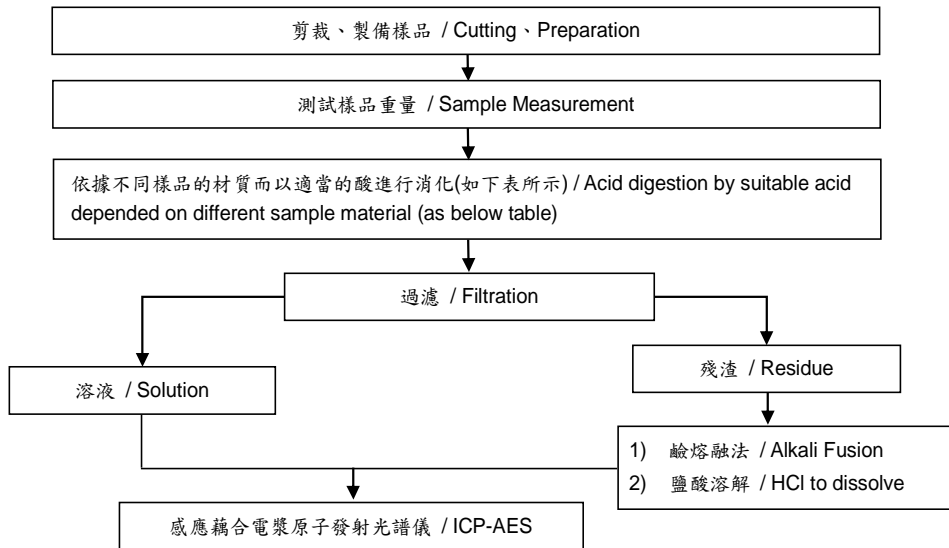
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根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

- 測試人員：劉俊宏 / Technician : Jony Liu
- 測試負責人：張伯睿 / Supervisor: Ray Chang

元素以 ICP-AES 分析的消化流程圖
 (Flow Chart of digestion for the elements analysis performed by ICP-AES)



| | |
|---|--|
| 鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder | 王水,硝酸,鹽酸,氫氟酸,雙氧水 / Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂ |
| 玻璃 / Glass | 硝酸,氫氟酸 / HNO ₃ /HF |
| 金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic | 王水 / Aqua regia |
| 銀 / Silver | 硝酸 / HNO ₃ |
| 塑膠 / Plastic | 硫酸,雙氧水,硝酸,鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl |
| 其他 / Others | 加入任何酸至完全溶解 / Any acid to total digestion |

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試驗報告

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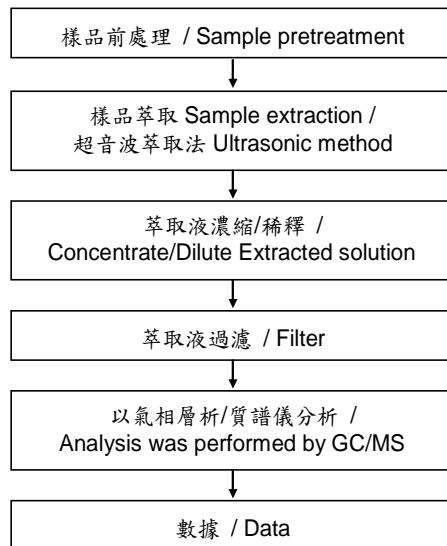
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Test Report

光頤科技股份有限公司高雄分公司
VIKING TECH CORPORATION KAOHSIUNG BRANCH
高雄市前鎮區新生路248-3號
NO. 284-3, SIN-SHENG RD., CIAN-JHEN DIST., KAOHSIUNG, 806, TAIWAN

六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 測試人員：陳威錚 / Technician : Dorothy Chen
- 測試負責人：張伯睿 / Supervisor: Ray Chang



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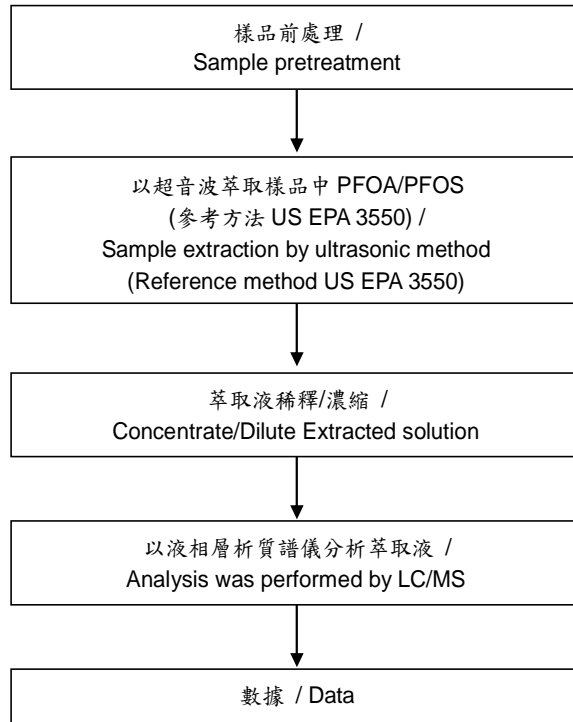
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全氟辛酸(銨)/全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

- 測試人員：黃璟璵 / Technician : Ginny Huang
- 測試負責人：張伯睿 / Supervisor: Ray Chang



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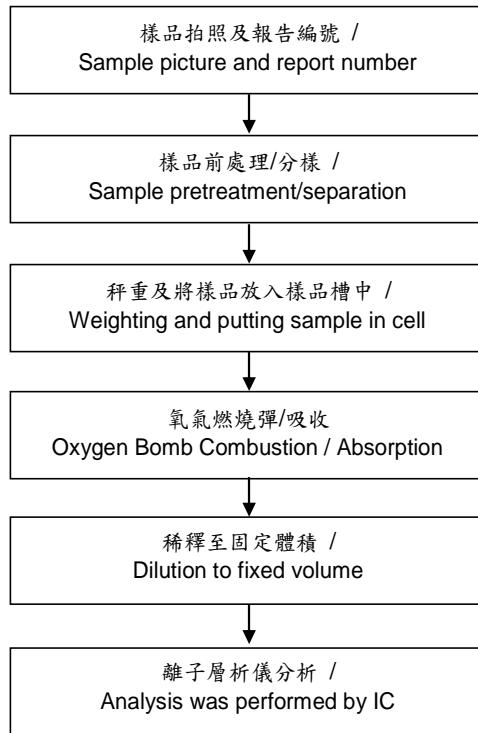
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員：洪秀真 / Technician : Jean Hung
- 測試負責人：張伯睿 / Supervisor: Ray Chang



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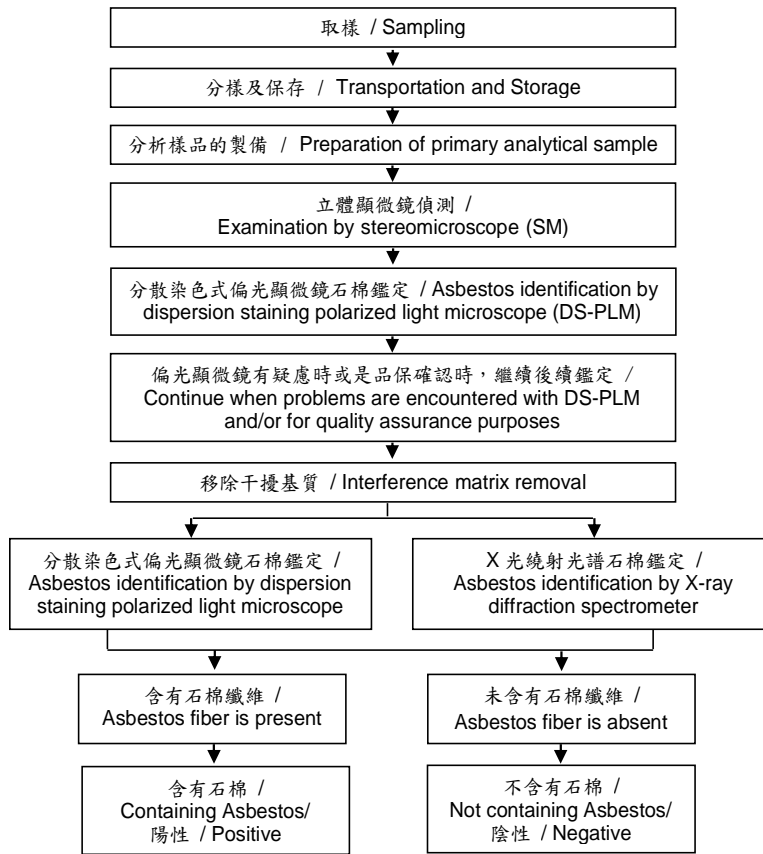
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 NO. 284-3, SIN-SHENG RD., CIAN-JHEN DIST., KAOHSIUNG, 806, TAIWAN

石棉鑑定分析流程圖 / Analysis flow chart for determination of Asbestos

- 測試人員：高鍵忠 / Name of the person who made measurement: Victor Kao
- 測試負責人：魏明芬 / Name of the person in charge of measurement: Wendy Wei

【參考方法(Reference method): EPA 600/R-93/116】



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VIKING TECH CORPORATION KAOHSIUNG BRANCH

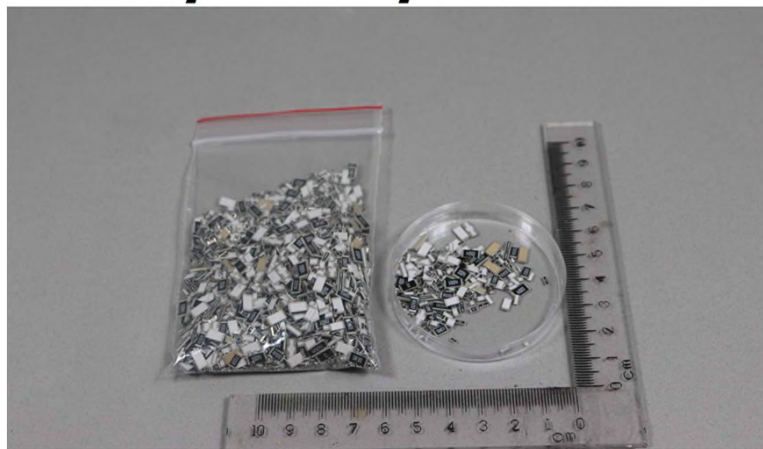
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

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

KA/2018/80642



** 報告結尾(End of Report) **