

## 試驗報告

號碼(No.) : KA/2017/B1190 日期(Date) : 2017/11/27 頁數(Page) : 1 of 12

## 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) : GREEN THICK FILM CHIP RESISTOR  
樣品型號(Style/Item No.) : CRG  
收件日期(Sample Receiving Date) : 2017/11/21  
測試期間(Testing Period) : 2017/11/21 TO 2017/11/27  
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)

### 測試需求(Test Requested) :

- (1) 依據客戶指定，參考RoHS2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚，DBP, BBP, DEHP, DIBP. (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample.)
- (2) 其他測試項目請見下一頁。(Please refer to next pages for the other

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

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



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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

### 測試結果(Test Results)

測試部位(PART NAME) NO.1 : 藍色/白色/黑色 GREEN THICK FILM CHIP RESISTOR (BLUE/WHITE/BLACK GREEN THICK FILM CHIP RESISTOR)

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

| 測試項目<br>(Test Items)   | 單位<br>(Unit) | 測試方法<br>(Method)   | 方法偵測<br>極限值<br>(MDL) | 結果<br>(Result) |
|--|--------------|--|----------------------|----------------|
|  |              |  |                      | NO.1           |
| 多溴聯苯醚總和 / Sum of PBDEs   | mg/kg        | 參考IEC 62321-6:2015方法, 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.           |
| 鄰苯二甲酸丁苄甲酯 / 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.           |

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## Test Report

光韻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

| 測試項目<br>(Test Items)  | 單位<br>(Unit) | 測試方法<br>(Method)   | 方法偵測<br>極限值<br>(MDL) | 結果<br>(Result) |
|---|--------------|--|----------------------|----------------|
|   |              |  |                      | NO.1           |
| 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 ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - 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方法, 以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 method. 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方法, 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        | 參考US EPA 3550C: 2007方法, 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.           |
| 鹵素 / Halogen  |              |  |                      |                |
| 鹵素(氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)  | mg/kg        | 參考BS EN 14582:2016, 以離子層析儀分析. / 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        | 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.              | 50                   | n.d.           |
| 鹵素(溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)  | mg/kg        | 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.              | 50                   | n.d.           |
| 鹵素(碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)  | mg/kg        | 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.              | 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

### 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)

### 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 $1\mu\text{g}/\text{m}^2$ 。(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  $1\mu\text{g}/\text{m}^2$ .)

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

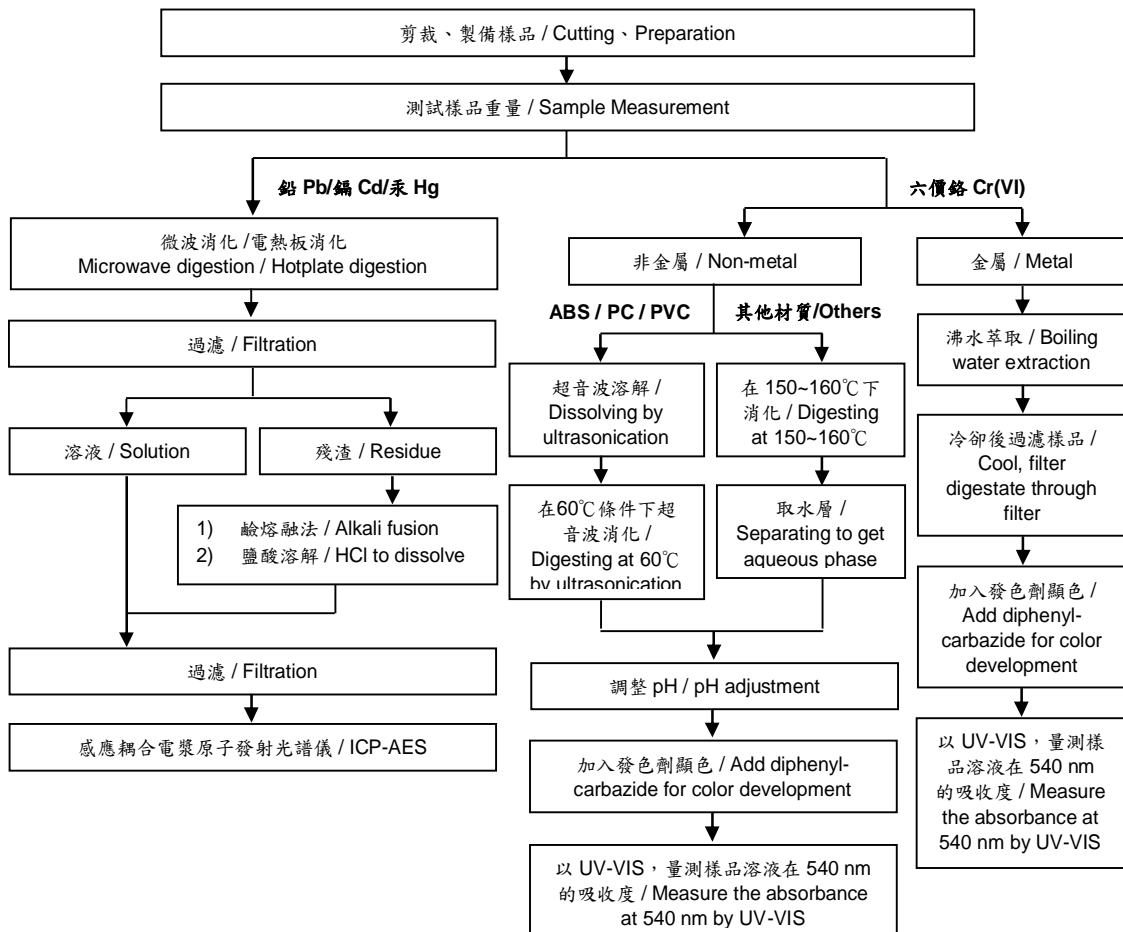
NO. 284-3, SIN-SHENG RD., CIAN-JHEN DIST., KAOHSIUNG, 806, TAIWAN

### 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)

- 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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## Test Report

光頤科技股份有限公司高雄分公司

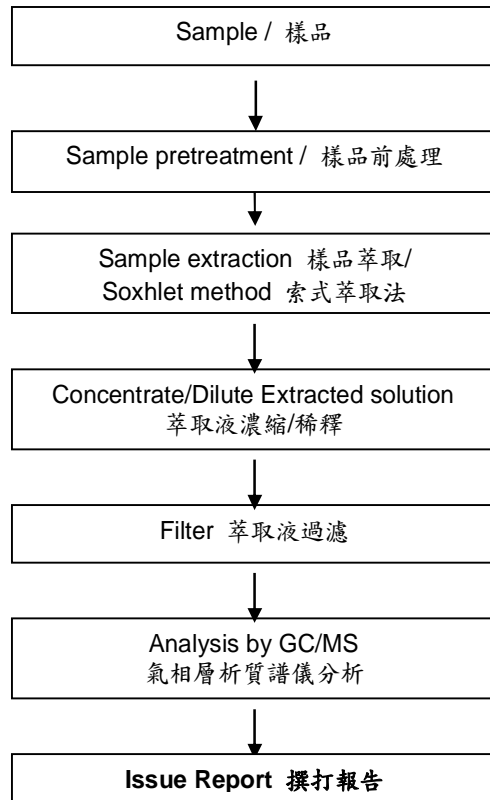
VIKING TECH CORPORATION KAOHSIUNG BRANCH

高雄市前鎮區新生路248-3號

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

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

- 1) 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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光頤科技股份有限公司高雄分公司

VIKING TECH CORPORATION KAOHSIUNG BRANCH

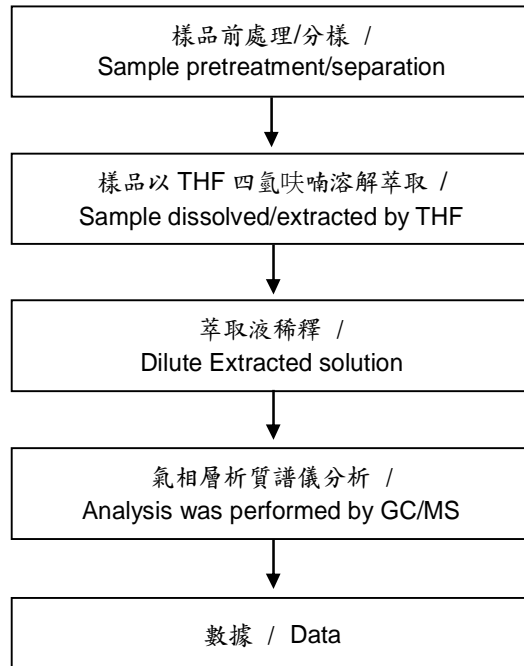
高雄市前鎮區新生路248-3號

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

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

- 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang

#### 【測試方法/Test method: IEC 62321-8】



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## Test Report

光頤科技股份有限公司高雄分公司

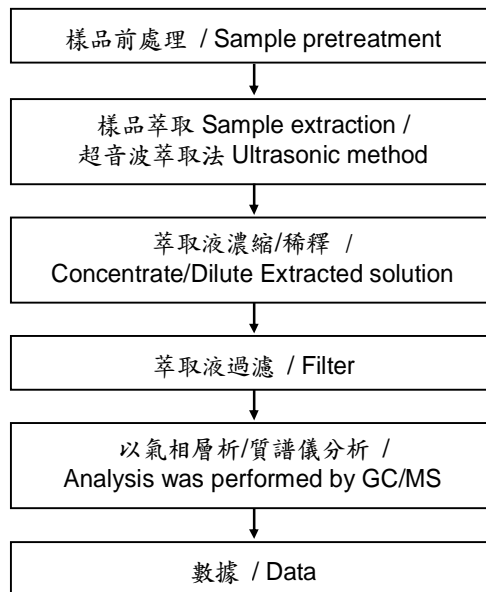
VIKING TECH CORPORATION KAOHSIUNG BRANCH

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

- 1) 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



## 試驗報告

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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

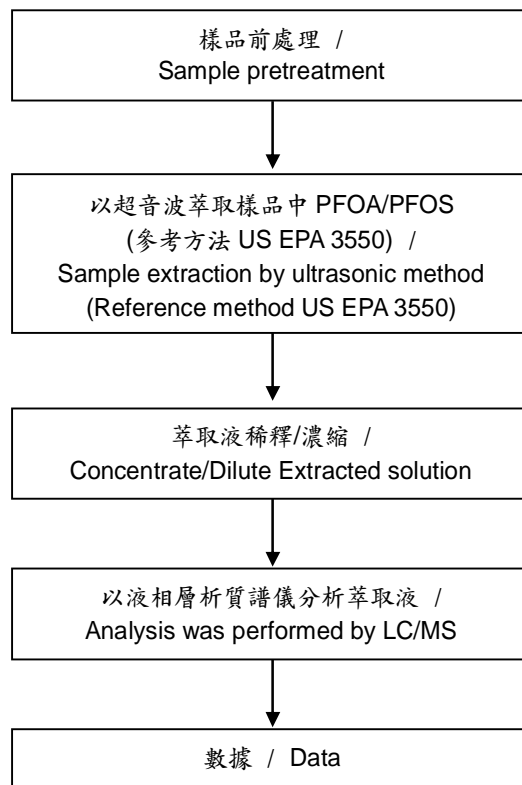
高雄市前鎮區新生路248-3號

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

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

1) 測試人員：黃璟璵 / Name of the person who made measurement: Ginny Huang

2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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## Test Report

光頤科技股份有限公司高雄分公司

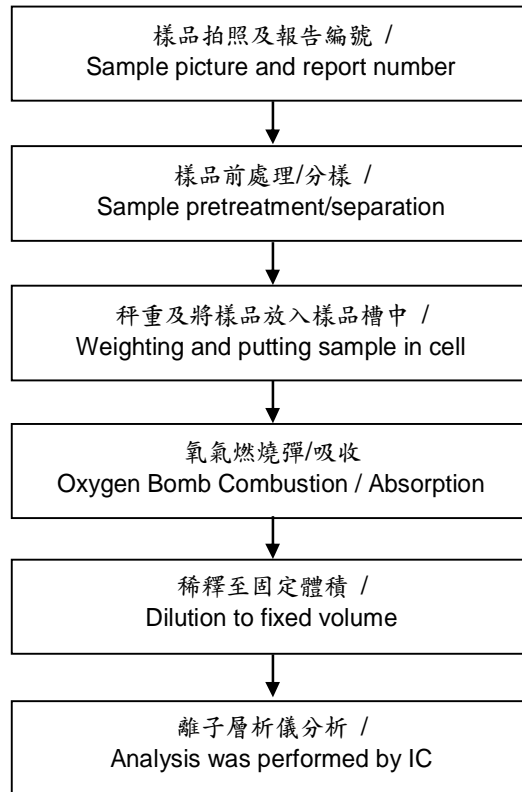
VIKING TECH CORPORATION KAOHSIUNG BRANCH

高雄市前鎮區新生路248-3號

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

- 1) 測試人員：洪秀真 / Name of the person who made measurement: Jean Hung
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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## Test Report

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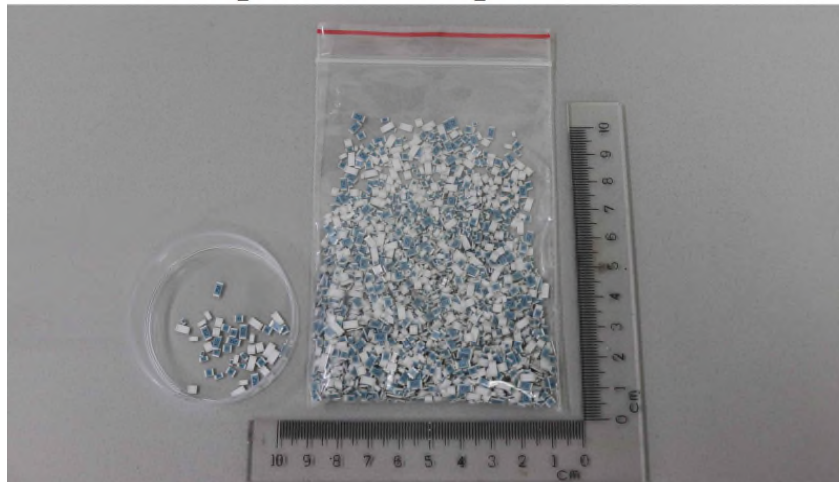
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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*

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

# KA/2017/B1190



\*\* 報告結尾(End of Report) \*\*