

#### 試驗報告

號碼(No.): KA/2017/C2409 日期(Date): 2018/01/04

頁數 (Page): 1 of 13

### Test Report

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

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/on behalf of the applicant as):

樣品名稱(Sample Description)

: ULTRA LOW OHM (METAL STRIP) CHIP RESISTOR/LOW OHM (METAL STRIP) CHIP RESISTOR/ULTRA-LOW CHIP RESISTOR JUMPER

樣品型號(Style/Item No.)

: LR/LRP/LRJ SERIES

收件日期(Sample Receiving Date)

: 2017/12/28

測試期間(Testing Period)

: 2017/12/28 TO 2018/01/04

送樣廠商(Sample Submitted By)

: 光類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) 依據客户指定,檢測鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP. (As specified by client, to test 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 item(s).)

測試結果(Test Results)

報告簽署人/Ray Chan

: 請見下一頁 (Please refer to next pages).

Signed for and on behalt 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<br>(Test Items)             | 單位<br>(Unit) | 測試方法<br>(Method)  | 方法偵測<br>極限値<br>(MDL) | 結果<br>(Result)<br>No.1 |
|----------------------------------|--------------|---|----------------------|------------------------|
| 鎬 / Cadmium (Cd)                 | mg/kg        | 参考IEC 62321-5:2013方法,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        | 参考IEC 62321-5:2013方法,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.                   |
| 汞 / Mercury (Hg)                 | mg/kg        | 参考IEC 62321-4:2013方法,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        | 参考IEC 62321-7-2:2017,以UV-VIS檢測./<br>With reference to IEC 62321-7-2:2017 and<br>performed by UV-VIS.  | 8                    | n.d.                   |

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| 測試項目                             | 單位     | 測試方法  | 方法偵測<br>極限値 | 結果<br>(Result) |
|----------------------------------|--------|---|-------------|----------------|
| (Test Items)                     | (Unit) | (Method)  | (MDL)       | No.1           |
| 多溴聯苯總和 / Sum of PBBs             | mg/kg  |   | -           | n.d.           |
| 一溴聯苯 / Monobromobiphenyl         | mg/kg  |   | 5           | n.d.           |
| 二溴聯苯 / Dibromobiphenyl           | mg/kg  | 参考IEC 62321-6: 2015方法,以氣相層析/質譜<br>儀檢測. / With reference to IEC 62321-6:<br>2015 and performed by GC/MS. | 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  | 儀檢測. / With reference to IEC 62321-6:   | 5           | n.d.           |
| 六溴聯苯 / Hexabromobiphenyl         | mg/kg  | 2015 and performed by GC/MS.  | 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  | Ī   | 5           | n.d.           |
| 多溴聯苯醚總和 / Sum of PBDEs           | mg/kg  |   | -           | 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  | 参考IEC 62321-6: 2015方法,以氣相層析/質譜  | 5           | n.d.           |
| 五溴聯苯醚 / Pentabromodiphenyl ether | mg/kg  | 儀檢測. / With reference to IEC 62321-6:   | 5           | n.d.           |
| 六溴聯苯醚 / Hexabromodiphenyl ether  | mg/kg  | 2015 and performed by GC/MS.  | 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.           |

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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>極限値<br>(MDL) | 結果<br>(Result) |
|--|--------------|--|----------------------|----------------|
|  |              |  |                      | No.1           |
| 鄰苯二甲酸二異丁酯 /<br>DIBP (Di-isobutyl phthalate)<br>(CAS No.: 84-69-5)                | mg/kg        |  | 50                   | n.d.           |
| 鄰苯二甲酸二丁酯 /<br>DBP (Dibutyl phthalate)<br>(CAS No.: 84-74-2)                      | mg/kg        |  | 50                   | n.d.           |
| 鄰苯二甲酸丁苯甲酯 /<br>BBP (Butyl Benzyl phthalate)<br>(CAS No.: 85-68-7)                | mg/kg        |  | 50                   | n.d.           |
| 鄰苯二甲酸二 (2-乙基己基)酯 /<br>DEHP (Di- (2-ethylhexyl) phthalate)<br>(CAS No.: 117-81-7) | mg/kg        | 参考IEC 62321-8:2017, 以氣相層析儀/質譜儀<br>檢測. / With reference to IEC 62321-<br>8:2017. Analysis was performed by GC/MS. | 50                   | n.d.           |
| 鄰苯二甲酸二正辛酯 /<br>DNOP (Di-n-octyl phthalate)<br>(CAS No.: 117-84-0)                | mg/kg        |  | 50                   | n.d.           |
| 鄰苯二甲酸二異壬酯 /<br>DINP (Di-isononyl phthalate)<br>(CAS No.: 28553-12-0; 68515-48-0) | mg/kg        |  | 50                   | n.d.           |
| 鄰苯二甲酸二異癸酯 /<br>DIDP (Di-isodecyl phthalate)<br>(CAS No.: 26761-40-0; 68515-49-1) | mg/kg        |  | 50                   | n.d.           |

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|---|--------------|--|----------------------|----------------|
|   |              |  |                      | No.1           |
| 六溴環十二烷及所有主要被辨别出的異構物 / 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        | 参考IEC 62321: 2008方法,以氣相層析/質譜儀<br>檢測. / With reference to IEC 62321: 2008<br>method. Analysis was performed by GC/MS. | 5                    | n.d.           |
| 全氟辛烷磺酸 / Perfluorooctane<br>sulfonates (PFOS)   | mg/kg        | 參考US EPA 3550C: 2007方法,以液相層析/質<br>譜儀檢測. / With reference to US EPA   | 10                   | n.d.           |
| 全氣辛酸(銨) / PFOA<br>(CAS No.: 335-67-1)   | mg/kg        | 3550C: 2007. Analysis was performed by LC/MS.  | 10                   | n.d.           |
| 鹵素 / Halogen  |              |  |                      |                |
| 鹵素(氣)/ Halogen-Fluorine<br>(F) (CAS No.: 014762-94-8)   | mg/kg        | 参考BS EN 14582:2016,以離子層析儀分析./<br>With reference to BS EN 14582:2016.<br>Analysis was performed by IC.                | 50                   | n.d.           |
| 鹵素 (氣) / Halogen-Chlorine<br>(C1) (CAS No.: 022537-15-1)  | mg/kg        |  | 50                   | n.d.           |
| 鹵素 (溴) / Halogen-Bromine<br>(Br) (CAS No.: 010097-32-2)   | mg/kg        |  | 50                   | n.d.           |
| 鹵素 (碘) / Halogen-Iodine<br>(I) (CAS No.: 014362-44-8)   | mg/kg        |  | 50                   | n.d.           |

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#### 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. 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别單一材質的含量. (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参考資訊(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  $1\mu g/m^2$ .)

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-甲基全氟辛烷磺酰胺,N-乙基全氟辛烷磺酰 胺, N-甲基全氟辛基磺酰基氨基乙醇, N-乙基全氟辛基磺酰基氨基乙醇。(PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.)

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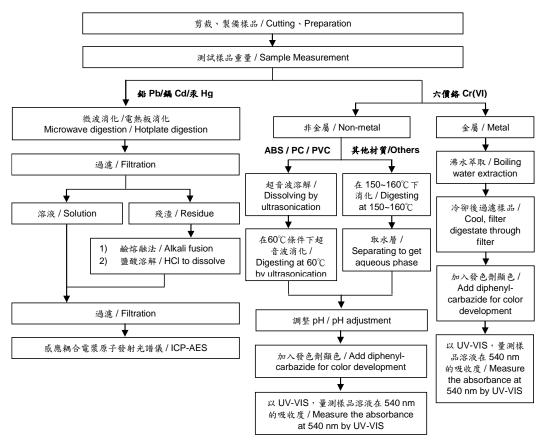
NO. 284-3, SIN-SHENG RD., CIAN-JHEN DIST., KAOHSIUNG, 806, TAIWAN

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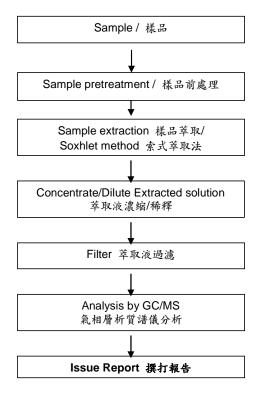
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光頡科技股份有限公司高雄分公司 VIKING TECH CORPORATION KAOHSIUNG BRANCH 高雄市前鎮區新生路248-3號 NO. 284-3, SIN-SHENG RD., CIAN-JHEN DIST., KAOHSIUNG, 806, TAIWAN

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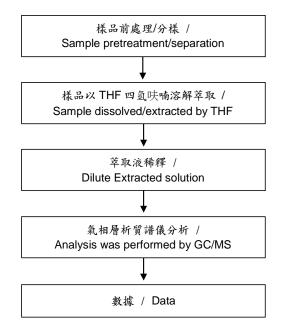
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#### 可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員: 陳威錚 / 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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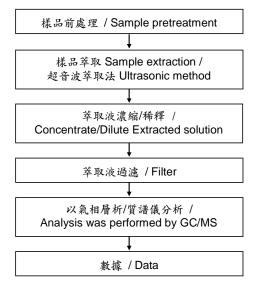
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#### 六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 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



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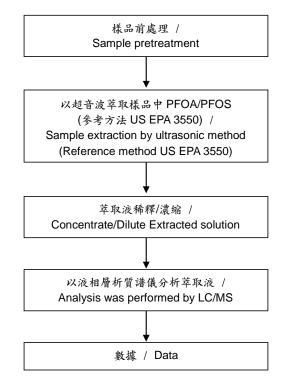
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#### 全氟辛酸(銨)/ 全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

1)测試人員: 黄璟璎 / 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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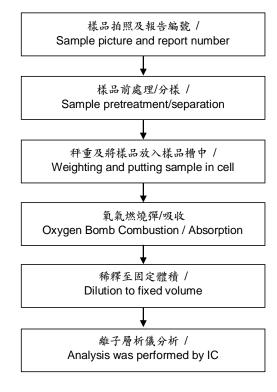
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### Test Report

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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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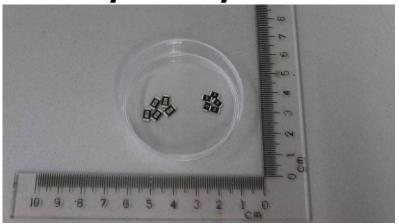
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\* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. \*

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

# KA/2017/C2409



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