測試報告
Test Report
景碩科技股份有限公司
KINSUS INTERCONNECT TECHNOLOGY CORP.
桃園市新屋區中華路1245號
NO. 1245, JUNGHUA RD., SHIN-WU DISTRICT, TAOYUAN 327, TAIWAN

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

送樣廠商(Sample Submitted By) : 景碩科技股份有限公司 (KINSUS INTERCONNECT TECHNOLOGY CORP.)
樣品名稱(Sample Description) : PLATING COPPER
收件日期(Sample Receiving Date) : 2017/02/17
測試期間(Testing Period) : 2017/02/17 TO 2017/02/24

測試需求(Test Requested):

(1) 依據客戶指定，參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鉛、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頁。(Please refer to next pages for the other item(s).)

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

測試部位（PART NAME）No.1 : 銅色金屬鍍層（PLATING LAYER OF COPPER COLORED METAL）
測試部位（PART NAME）No.2 : 銅色金屬（含鍍層）（COPPER COLORED METAL INCLUDING THE PLATING LAYER）

<table>
<thead>
<tr>
<th>測試項目（Test Items）</th>
<th>單位（Unit）</th>
<th>測試方法（Method）</th>
<th>方法偵測極限值（MDL）</th>
<th>結果（Result）</th>
</tr>
</thead>
<tbody>
<tr>
<td>鉛 / Cadmium（Cd）</td>
<td>mg/kg</td>
<td>酸洗鍍層，參考IEC 62321-5（2013），以感應耦合電漿原子發射光譜儀檢測，以表面蝕刻和操作由ICP-AES.</td>
<td>2</td>
<td>n.d.</td>
</tr>
<tr>
<td>銅 / Lead（Pb）</td>
<td>mg/kg</td>
<td>酸洗鍍層，參考IEC 62321-5（2013），以感應耦合電漿原子發射光譜儀檢測，以表面蝕刻和操作由ICP-AES.</td>
<td>2</td>
<td>n.d.</td>
</tr>
<tr>
<td>汞 / Mercury（Hg）</td>
<td>mg/kg</td>
<td>酸洗鍍層，參考IEC 62321-4（2013），以感應耦合電漿原子發射光譜儀檢測，以表面蝕刻和操作由ICP-AES.</td>
<td>2</td>
<td>n.d.</td>
</tr>
<tr>
<td>六價鉻 / Hexavalent Chromium Cr(VI)(#2)</td>
<td>µg/cm²</td>
<td>參考IEC 62321-7-1（2015），以UV-VIS檢測。 With reference to IEC 62321-7-1 (2015) and performed by UV-VIS.</td>
<td>0.10</td>
<td>n.d.</td>
</tr>
</tbody>
</table>
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) |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>多溴聯苯醚總和 / Sum of PBDEs</td>
<td>mg/kg</td>
<td>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.</td>
<td>-</td>
<td>n.d. ---</td>
</tr>
<tr>
<td>一溴聯苯醚 / Monobromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d. ---</td>
</tr>
<tr>
<td>二溴聯苯醚 / Dibromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d. ---</td>
</tr>
<tr>
<td>三溴聯苯醚 / Tribromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d. ---</td>
</tr>
<tr>
<td>四溴聯苯醚 / Tetrabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d. ---</td>
</tr>
<tr>
<td>五溴聯苯醚 / Pentabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d. ---</td>
</tr>
<tr>
<td>六溴聯苯醚 / Hexabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d. ---</td>
</tr>
<tr>
<td>七溴聯苯醚 / Heptabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d. ---</td>
</tr>
<tr>
<td>八溴聯苯醚 / Octabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d. ---</td>
</tr>
<tr>
<td>九溴聯苯醚 / Nonabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d. ---</td>
</tr>
<tr>
<td>十溴聯苯醚 / Decabromodiphenyl ether</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>n.d. ---</td>
</tr>
</tbody>
</table>

適用備註:

- 除非另有指明，本測試報告中所列結果僅限於所測試樣品。
# 測試報告

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</tr>
</thead>
<tbody>
<tr>
<td>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))</td>
<td>mg/kg</td>
<td>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.</td>
<td>5</td>
<td>---</td>
</tr>
<tr>
<td>邻苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)</td>
<td>mg/kg</td>
<td>參考IEC 62321-8/CD (2013). 以氣相層析/質譜儀檢測. / With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.</td>
<td>50</td>
<td>---</td>
</tr>
<tr>
<td>邻苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)</td>
<td>mg/kg</td>
<td>參考IEC 62321-8/CD (2013). 以氣相層析/質譜儀檢測. / With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.</td>
<td>50</td>
<td>---</td>
</tr>
<tr>
<td>邻苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)</td>
<td>mg/kg</td>
<td>參考IEC 62321-8/CD (2013). 以氣相層析/質譜儀檢測. / With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.</td>
<td>50</td>
<td>---</td>
</tr>
</tbody>
</table>
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<tr>
<th>測試項目</th>
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<th>測試方法</th>
<th>方法偵測極限值</th>
<th>預測</th>
<th>日期</th>
</tr>
</thead>
<tbody>
<tr>
<td>邻苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)</td>
<td>mg/kg</td>
<td>参考 IEC 62321-8/CD (2013)，以液相層析儀/質量儀檢測。</td>
<td>50</td>
<td>---</td>
<td>n.d.</td>
</tr>
<tr>
<td>邻苯二甲酸二異壬酯 / DINP (Di-isonoctyl phthalate) (CAS No.: 28533-12-0; 68515-48-0)</td>
<td>mg/kg</td>
<td>参考 IEC 62321-8/CD (2013)，以液相層析儀/質量儀檢測。</td>
<td>50</td>
<td>---</td>
<td>n.d.</td>
</tr>
<tr>
<td>邻苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)</td>
<td>mg/kg</td>
<td>参考 IEC 62321-8/CD (2013)，以液相層析儀/質量儀檢測。</td>
<td>50</td>
<td>---</td>
<td>n.d.</td>
</tr>
<tr>
<td>邻苯二甲酸二異丁酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)</td>
<td>mg/kg</td>
<td>参考 IEC 62321-8/CD (2013)，以液相層析儀/質量儀檢測。</td>
<td>50</td>
<td>---</td>
<td>n.d.</td>
</tr>
<tr>
<td>邻苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)</td>
<td>mg/kg</td>
<td>参考 IEC 62321-8/CD (2013)，以液相層析儀/質量儀檢測。</td>
<td>50</td>
<td>---</td>
<td>n.d.</td>
</tr>
<tr>
<td>邻苯二甲酸二 (C6-8支鏈與直鍵)烷基酯 , 富C7 / DHIP (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)</td>
<td>mg/kg</td>
<td>参考 IEC 62321-8/CD (2013)，以液相層析儀/質量儀檢測。</td>
<td>50</td>
<td>---</td>
<td>n.d.</td>
</tr>
<tr>
<td>邻苯二甲酸二 (C7-11支鍵與直鍵)烷基酯 / DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (CAS No.: 68515-42-4)</td>
<td>mg/kg</td>
<td>参考 IEC 62321-8/CD (2013)，以液相層析儀/質量儀檢測。</td>
<td>50</td>
<td>---</td>
<td>n.d.</td>
</tr>
</tbody>
</table>

**注意**

- 本測試報告中的結果僅反映樣品的測試結果。
- 未經公司明確指出，本測試報告中的結果僅反映樣品的測試結果。
- 任何私人作坊、非法仿製或偽造本報告內內容者，將被依法追究。
### 測試項目 (Test Items)

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>鄂苯二甲酸二 (2-甲氧基乙基)酯 / DMEP (Bis (2-methoxethyl) phthalate) (CAS No.: 117-82-8)</td>
<td>mg/kg</td>
<td>參考 IEC 62321-8/CD (2013)。以氣相層析儀 / 質譜儀檢測。 / With reference to IEC 62321-8/CD (2013). Analysis was performed by GC/MS.</td>
<td>50</td>
<td>n.d.</td>
</tr>
<tr>
<td>多氯聯苯 / Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)</td>
<td>mg/kg</td>
<td>參考 US EPA 3550C (2007)。以氣相層析儀 / 質譜儀檢測。 / With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.</td>
<td>0.5</td>
<td>n.d.</td>
</tr>
<tr>
<td>多氯奈 / Polychlorinated Naphthalene (PCNs)</td>
<td>mg/kg</td>
<td>參考 US EPA 3550C (2007)。以氣相層析儀 / 質譜儀檢測。 / With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.</td>
<td>5</td>
<td>n.d.</td>
</tr>
<tr>
<td>多氯三聯苯 / Polychlorinated Terphenyls (PCTs)</td>
<td>mg/kg</td>
<td>參考 US EPA 3550C (2007)。以氣相層析儀 / 質譜儀檢測。 / With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.</td>
<td>0.5</td>
<td>n.d.</td>
</tr>
<tr>
<td>短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)</td>
<td>mg/kg</td>
<td>參考 US EPA 3550C (2007)。以氣相層析儀 / 質譜儀檢測。 / With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.</td>
<td>100</td>
<td>n.d.</td>
</tr>
<tr>
<td>三丁基錫 / Tributyl Tin (TBT)</td>
<td>mg/kg</td>
<td>參考 ISO 17353 (2004)。以氣相層析儀 / 火焰光度氮化合物檢測器檢測。 / With reference to ISO 17353 (2004). Analysis was performed by GC/FPD.</td>
<td>0.03</td>
<td>n.d.</td>
</tr>
<tr>
<td>三苯基錫 / Triphenyl Tin (TphT)</td>
<td>mg/kg</td>
<td>參考 ISO 17353 (2004)。以氣相層析儀 / 火焰光度氮化合物檢測器檢測。 / With reference to ISO 17353 (2004). Analysis was performed by GC/FPD.</td>
<td>0.03</td>
<td>n.d.</td>
</tr>
</tbody>
</table>

注意：本報告所顯示之結果只是依照客戶指示的樣品進行測試。
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</thead>
<tbody>
<tr>
<td>氯化雙三丁基錫 / Bis(trIBUTylTin)oxide (TBTO)*** (CAS No.: 56-35-9)</td>
<td>mg/kg</td>
<td>參考ISO 17353 (2004)，以氣相層析儀/火焰光度偵測器檢測。/ With reference to ISO 17353 (2004). Analysis was performed by GC/FPD.</td>
<td>-</td>
<td>n.d.</td>
</tr>
<tr>
<td>二辛基錫 / Dioctyl Tin (DOT)</td>
<td>mg/kg</td>
<td>參考ISO 17353 (2004)，以氣相層析儀/火焰光度偵測器檢測。/ With reference to ISO 17353 (2004). Analysis was performed by GC/FPD.</td>
<td>0.03</td>
<td>n.d.</td>
</tr>
<tr>
<td>聚氯乙烯 / PVC</td>
<td>**</td>
<td>以紅外光譜分析及焰色法檢測。/ Analysis was performed by FTIR and FLAME Test.</td>
<td>-</td>
<td>Negative</td>
</tr>
<tr>
<td>鉛 / Antimony (Sb)</td>
<td>mg/kg</td>
<td>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.</td>
<td>2</td>
<td>n.d.</td>
</tr>
<tr>
<td>銥 / Beryllium (Be)</td>
<td>mg/kg</td>
<td>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.</td>
<td>2</td>
<td>n.d.</td>
</tr>
</tbody>
</table>

**卤素 / Halogen**

| 電離氯 (F) / Halogen-Fluorine (F) (CAS No.: 14762-94-8) | mg/kg | 參考BS EN 14582 (2007)，以離子層析儀分析。/ With reference to BS EN 14582 (2007). Analysis was performed by IC. | 50 | n.d. |
| 電離氯 (Cl) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1) | mg/kg | 參考BS EN 14582 (2007)，以離子層析儀分析。/ With reference to BS EN 14582 (2007). Analysis was performed by IC. | 50 | n.d. |
| 電離溴 (Br) / Halogen-Bromine (Br) (CAS No.: 10097-32-2) | mg/kg | 參考BS EN 14582 (2007)，以離子層析儀分析。/ With reference to BS EN 14582 (2007). Analysis was performed by IC. | 50 | n.d. |
| 電離碘 (I) / Halogen-Iodine (I) (CAS No.: 14362-44-8) | mg/kg | 參考BS EN 14582 (2007)，以離子層析儀分析。/ With reference to BS EN 14582 (2007). Analysis was performed by IC. | 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. "---" = Not Conducted（未測項目）
6. ** = Qualitative analysis（No Unit）定性分析（無單位）
7. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
8. (#2) =
   a. 當六價鉻結果大於0.13 µg/cm², 表示樣品表層含有六價鉻. / The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
   b. 當六價鉻結果為n.d.（濃度小於0.10 µg/cm²）, 表示表層不含六價鉻. / The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.
   c. 當六價鉻結果介於 0.10 及 0.13 µg/cm² 時，無法確定塗層是否含有六價鉻. / The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.
9. ***: 該物質是由三丁基錫之測試結果計算得知. 其MDL是針對三丁基錫之評估.（The substance was calculated by the test result of Tributyl Tin. The MDL was evaluated for Tributyl Tin.）
10. 參數換算表 / Parameter Conversion Table:
    Please refer to http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp

PFOS參考資訊(Reference Information)：持久性有機污洩物 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.)
The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- Technician: JR Wang
- Supervisor: Troy Chang

**Flow Chart of Stripping method for metal analysis**

1. Preparation / Sample measurement (weight)
   - Pb, Cd, Hg
2. Prepare suitable acid solution
3. Put sample into acid solution
4. Dissolve plating layer / Solution
5. Cool, filter digestate through filter
6. Add diphenyl-carbazide for color development
7. Measure the absorbance at 540 nm by UV-VIS
8. Add appropriate amount of pure water reagent
9. Heat to boiling to extract
10. Measure the absorbance at 540 nm by UV-VIS
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.

- 测试人员: 王志玮 / Technician: JR Wang
- 测试负责人: 张啟興 / Supervisor: Troy Chang

### 叉发放的消化流程图
*(Flow Chart of digestion for the elements analysis performed by ICP-AES)*

<table>
<thead>
<tr>
<th>步骤</th>
<th>操作</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>切割、製備樣品 / Cutting、Preparation</td>
</tr>
<tr>
<td>2</td>
<td>测试样品重量 / Sample Measurement</td>
</tr>
<tr>
<td>3</td>
<td>依据不同样品的材质而以适当的酸进行消化 (如下表所示) / Acid digestion by suitable acid depended on different sample material (as below table)</td>
</tr>
<tr>
<td>4</td>
<td>过滤 / Filtration</td>
</tr>
<tr>
<td>5</td>
<td>潮渣 / Residue</td>
</tr>
<tr>
<td>6</td>
<td>感應耦合電漿原子發射光譜儀 / ICP-AES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>材料</th>
<th>酸液</th>
</tr>
</thead>
<tbody>
<tr>
<td>鋼,銅,鋁,焊錫</td>
<td>王水,硝酸,鹽酸,氫氟酸,雙氧水 / Aqua regia, HNO₃, HCl, HF, H₂O₂</td>
</tr>
<tr>
<td>玻璃</td>
<td>王水,硝酸</td>
</tr>
<tr>
<td>金,銀,钯,陶瓷</td>
<td>王水,硝酸</td>
</tr>
<tr>
<td>塑料</td>
<td>硫酸,雙氧水,硝酸,鹽酸</td>
</tr>
<tr>
<td>其他</td>
<td>加入適當的试剂至完全溶解 / Added appropriate reagent to total digestion</td>
</tr>
</tbody>
</table>
測試報告
Test Report
景碩科技股份有限公司
KINSUS INTERCONNECT TECHNOLOGY CORP.
桃園市新屋區中華路1245號
NO. 1245, JUNGHUA RD., SHIN-WU DISTRICT, TAOYUAN 327, TAIWAN

聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC

- 測試人員：凃雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang

樣品前處理 / Sample pre-treatment

焰色法檢測 / Flame test

紅外光譜分析 / Sample analyzed by FTIR

確認C-Cl鍵波數 / Check wave-number of C-Cl bonding

數據 / Data
測試報告  
Test Report

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NO. 1245, JUNGHUA RD., SHIN-WU DISTRICT, TAOYUAN 327, TAIWAN

有機錫分析流程圖  / Analytical flow chart - Organic-Tin

- 测试人员：凃雅苓  / Technician: Yaling Tu
- 测试负责人：張啟興  / Supervisor: Troy Chang

樣品前處理  / Sample pretreatment

有機溶剤萃取  / Sample extraction by organic solvent

四乙基硼化鈉衍生化  / Derived by Sodium tetraethylborate

萃取液濃縮/稀釋  / Concentrate/Dilute Extracted solution

數據  / Data

Analysis was performed by GC/FPD

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氯化石蠟分析流程圖 / Analytical flow chart - Chlorinated Paraffins

- 测试人员: 凃雅苓 / Technician: Yaling Tu
- 测试负责人: 張啟興 / Supervisor: Troy Chang

1. 椅品前处理 / Sample pretreatment
2. 椅品萃取 / Sample extraction / Ultrasonic method
3. 萃取液濃縮/稀釋 / Concentrate/Dilute Extracted solution
4. 萃取液過濾 / Filter
5. 以氣相層析/質譜儀分析 / Analysis was performed by GC/MS
6. 數據 / Data
測試報告
Test Report

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多氯三聯苯分析流程圖 / Analytical flow chart - PCTs

- 測試人員：曾勃鈞 / Technician: Barry Tseng
- 測試負責人：張啟興 / Supervisor: Troy Chang

樣品前處理 / Sample pretreatment

樣品萃取 / Sample extraction /
超音波萃取法 / Ultrasonic method

萃取液濃縮/稀釋 / Concentrate/Dilute Extracted solution

萃取液過濾 / Filter

以氣相層析/質譜儀分析 / Analysis was performed by GC/MS

數據 / Data
測試報告
Test Report

多氯聯苯分析流程圖 / Analytical flow chart - PCBs

- 測試人員：凃雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang

數據 / Data

樣品前處理 / Sample pretreatment

樣品萃取 Sample extraction /
超音波萃取法 Ultrasonic method

萃取液濃縮/稀釋 / Concentrate/Dilute Extracted solution

萃取液過濾 / Filter

以氣相層析/質譜儀分析 / Analysis was performed by GC/MS

25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan
**Analytical flow chart - PCNs**

- **Technician:** Yaling Tu
- **Supervisor:** Troy Chang

1. **Sample pretreatment**
2. **Sample extraction**
   - Ultrasonic method

3. **Concentrate/Dilute Extracted solution**

4. **Filter**

5. **Analysis was performed by GC/MS**

6. **Data**
**Test Report**

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**Analytical flow chart - Phthalate**

- **Technician:** Andy Shu
- **Supervisor:** Troy Chang

【測試方法/Test method: IEC 62321-8】

1. **Sample pretreatment/separation**
2. **Sample dissolved/extracted by THF**
3. **Dilute Extracted solution**
4. **Analysis was performed by GC/MS**
5. **Data**

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

- 測試人員: 凃雅苓 / Technician: Yaling Tu
- 測試負責人: 張啟興 / Supervisor: Troy Chang

樣品前處理 / Sample pretreatment

樣品萃取 / Sample extraction
- 超音波萃取法 / Ultrasonic method

萃取液濃縮/稀釋 / Concentrate/Dilute Extracted solution

萃取液過濾 / Filter

以氣相層析/質譜儀分析 / Analysis was performed by GC/MS

數據 / Data
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 测试人员：涂雅苓 / Technician: Yaling Tu
- 测试负责人：张啟兴 / Supervisor: Troy Chang

初次测试程序 / First testing process
选择性筛检程序 / Optional screen process
确认程序 / Confirmation process

- Sample 樣品
- Sample pretreatment 樣品前处理

Screen analysis / 初篩分析

- Sample extraction 樣品萃取/索式萃取法
- Concentrate/Dilute Extracted solution 萃取液濃縮/稀釋
- Filter 萃取液過濾

Analysis by GC/MS / 氣相層析質譜儀分析

Issue Report 撰打報告
測試報告
Test Report

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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang

樣品前處理 / Sample pretreatment

超音波萃取法萃取 / Sample extraction by Ultrasonic extraction

萃取液稀釋/濃縮 / Concentrate/Dilute Extracted solution

以液相層析質譜儀分析萃取液 / Analysis was performed by LC/MS

數據 / Data
測試報告
Test Report

樣品前處理/分樣 / Sample pretreatment/separation

秤重及將樣品放入樣品槽中 / Weighting and putting sample in cell

氧氣燃燒彈/吸收 / Oxygen Bomb Combustion / Absorption

稀釋至固定體積 / Dilution to fixed volume

離子層析儀分析 / Analysis was performed by IC

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

- 測試人員：陳恩臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang
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NO. 1245, JUNGHUA RD., SHIN-WU DISTRICT, TAOUYAN 327, TAIWAN

* 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.)

** 報告結尾 (End of Report) **