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# 測試報告
# Test Report

號碼(No.) : CE/2012/70634A 日期(Date) : 2012/09/25 頁數(Page) : 1 of 18

億光電子工業股份有限公司
EVERLIGHT ELECTRONICS CO., LTD.
新北市樹林區中華路6-8號
NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, 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)：**

| | |
|---|---|
| **BASIC INFORMATION** | |
| Type of Product | HIGH POWER LED |
| Supplier Company Name | EVERLIGHT |
| Address | NO.6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN |
| Tel/Fax/Email | TEL:886-2685-6688 EXT:1160 |
| | FAX:886-2685-6898 |
| | E-MAIL: meelin@everlight.com |
| Contact Person | LIN HSIAO HUA |
| EVERLIGHT REPORT NO | EVERLIGHT-HIGH POWER ELCH SERIES、EHP-C04 SERIES Sampling Product : EHP-C04-NT21A-P01-TR(YY)-SGS-25/09/2012 |
| **PRODUCT INFORMATION** | |
| Product/component Sample description | FLASH |
| Quantity (numbers or weight) | 0.0076g |
| EVERLIGHT P/N | HIGH POWER ELCH SERIES、EHP-C04 SERIES Sampling Product : EHP-C04-NT21A-P01-TR(YY) |
| Product Lot No | Y120419E0101DA803 |
| Country of Origin | TAIWAN |
| **TEST INFORMATION** | |
| Digital Photo(s) of sample(s) after being prepared | JPG EMBEDDED IN EACH REPORT |
| Sample preparation | CUTTING |
| Test Method | Cd , Pb , Hg , Cr(VI), PBB/PBDE - IEC 62321, Halogen-BS EN 14582 |
| PQL and/or MDL | Cd , Pb , Hg: < 2 mg/kg; PBB/PBDE: < 5 mg/kg; Halogen: 50 mg/kg |
| Name of Analyzer | Cd , Pb , Hg, Cr(VI): Climbgreat Yang; PBB/PBDE: Roman Wong; Halogen: Rita Chen |

收件日期(Sample Receiving Date) : 2012/07/04
測試期間(Testing Period) : 2012/07/04 TO 2012/07/16

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

Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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**結論(Conclusion)** : 根據客戶所提供的樣品，其多苯環芳香族化合物的測試結果符合德國ZLS的ZEK 01.4-08及其相關修訂文件中的第1類PAHs要求 (Base upon the performed tests by submitted samples, the test results of PAHs comply with the PAHs requirement according to (Category 1) of ZEK 01.4-08 of German ZLS and its amendments.)

**測試結果(Test Results)**

測試部位(PART NAME)No.1 : HIGH POWER LED

| 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: 2008方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| 鉛 / Lead (Pb) | mg/kg | | 2 | n.d. |
| 汞 / Mercury (Hg) | mg/kg | | 2 | n.d. |
| 六價鉻 / Hexavalent Chromium Cr(VI) | mg/kg | 參考IEC 62321: 2008方法，以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS. | 2 | n.d. |
| 銻 / Antimony (Sb) | mg/kg | 參考US EPA 3050B方法，以感應耦合電漿原子發射光譜儀檢測銻含量. / With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES. | 2 | n.d. |

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|---|---|---|---|---|
| 全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide) | 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. |
| 四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7) | mg/kg | 參考DIN 53313方法，以氣相層析/質譜儀檢測. / With reference to DIN 53313 method. Analysis was performed by GC/MS. | 10 | n.d. |
| 六溴環十二烷 / Hexabromocyclododecane (HBCDD) (CAS No.: 25637-99-4) | mg/kg | 參考US EPA 3540C方法，以氣相層析/質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS. | 5 | n.d. |
| 鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2) | % | 參考EN 14372，以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| 鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7) | % | 參考EN 14372，以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| 鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7) | % | 參考EN 14372，以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| 鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0) | % | 參考EN 14372，以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| 鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0) | % | 參考EN 14372，以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.01 | n.d. |

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| 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 |
|---|---|---|---|---|
| 鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0) | % | 參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.01 | n.d. |
| 鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) | % | 參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| 鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3) | % | 參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| 鄰苯二甲酸二 (2-甲氧基乙基)酯 / DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8) | % | 參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| 鄰苯二甲酸二戊酯 / DPP (Di-pentyl phthalate) (CAS No.: 131-18-0) | % | 參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| **鹵素 / Halogen** | | | | |
| 鹵素 (氟) / 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. |
| 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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|---|---|---|---|---|
| **多苯環芳香族化合物 / Polynuclear Aromatic Hydrocarbons (PAHs)** | | | | |
| 苊 / Acenaphthene (CAS No.: 83-32-9) | mg/kg | 參考ZLS standard ZEK 01.4-08方法, 以氣相層析/質譜儀檢測. / With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS. | 0.2 | n.d. |
| 苊烯 / Acenaphthylene (CAS No.: 208-96-8) | mg/kg | | 0.2 | n.d. |
| 蒽 / Anthracene (CAS No.: 120-12-7) | mg/kg | | 0.2 | n.d. |
| 苯駢蒽 / Benzo[a]anthracene (CAS No.: 56-55-3) | mg/kg | | 0.2 | n.d. |
| 苯駢(a)芘 / Benzo[a]pyrene (CAS No.: 50-32-8) | mg/kg | | 0.2 | n.d. |
| 苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2) | mg/kg | | 0.2 | n.d. |
| 苯駢苝 / Benzo[g,h,i]perylene (CAS No.: 191-24-2) | mg/kg | | 0.2 | n.d. |
| 苯(k)苯駢芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9) | mg/kg | | 0.2 | n.d. |
| Chrysene (CAS No.: 218-01-9) | mg/kg | | 0.2 | n.d. |
| 二苯駢蒽 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3) | mg/kg | | 0.2 | n.d. |
| 苯駢芴 / Fluoranthene (CAS No.: 206-44-0) | mg/kg | | 0.2 | n.d. |
| 芴 / Fluorene (CAS No.: 86-73-7) | mg/kg | | 0.2 | n.d. |
| 茚酮芘 / Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5) | mg/kg | | 0.2 | n.d. |
| 萘 / Naphthalene (CAS No.: 91-20-3) | mg/kg | | 0.2 | n.d. |
| 菲 / Phenanthrene (CAS No.: 85-01-8) | mg/kg | | 0.2 | n.d. |
| 芘 / Pyrene (CAS No.: 129-00-0) | mg/kg | | 0.2 | n.d. |
| 苯(j)苯駢芴 / Benzo[j]fluoranthene (CAS No.: 205-82-3) | mg/kg | | 0.2 | n.d. |
| 苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2) | mg/kg | | 0.2 | n.d. |
| **多苯環芳香族化合物18項總和 / Sum of 18 PAHs** | mg/kg | | - | n.d. |

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| 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 |
|---|---|---|---|---|
| **多溴聯苯總和 / Sum of PBBs** | 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 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. |
| **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 | | 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. |

**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)

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**PAHs參考資料(Reference information) :**
**依據ZEK 01.4-08之要求: 產品中最大值為**
**(Requirement of ZEK 01.4-08 : Restraining maximum values for products)**

| 項目 (Parameter) | 第1類 (Category 1) | 第2類 (Category 2) | 第3類 (Category 3) |
|---|---|---|---|
| | 意圖放入嘴內的材料或與36個月以下的幼兒皮膚有所接觸的玩具. (Material indented to be put in the mouth or toys for children aged < 36 months with intended skin contact.) | 可預見與皮膚接觸逾30秒(長期與皮膚接觸), 以及不屬於第1類的材料. (Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long-term skin contact).) | 可預見與皮膚接觸短於30秒(短期與皮膚接觸), 以及不屬於第1類或第2類的材料. (Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term skin contact).) |
| 苯駢(a)芘 Benzo[a]pyrene (mg/kg) | <MDL (<0.2)** | 1 | 20 |
| 18項PAH總濃度 (Sum of 18 PAH) (mg/kg)* | <MDL (<0.2)** | 10 | 200 |

**注意(Remark):**

* = PAH濃度大於0.2mg/kg時，則須計算PAH總濃度值.
(Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs.)

** = 最大濃度值超出等級一的限制，但在等級二的濃度限制值內時，可能需要確認測試材質是否適用於與食品或與口腔黏膜接觸，並依照EN 1186 ff. and § 64 LFBG 80.30-1方法，針對特定PAH的遷移測試進行測試。遷移測試的結論需依照食品規範評估。

(If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186 ff. and § 64 LFBG 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.)

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# 測試報告
# Test Report



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**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/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 1μg/m$^2$.)

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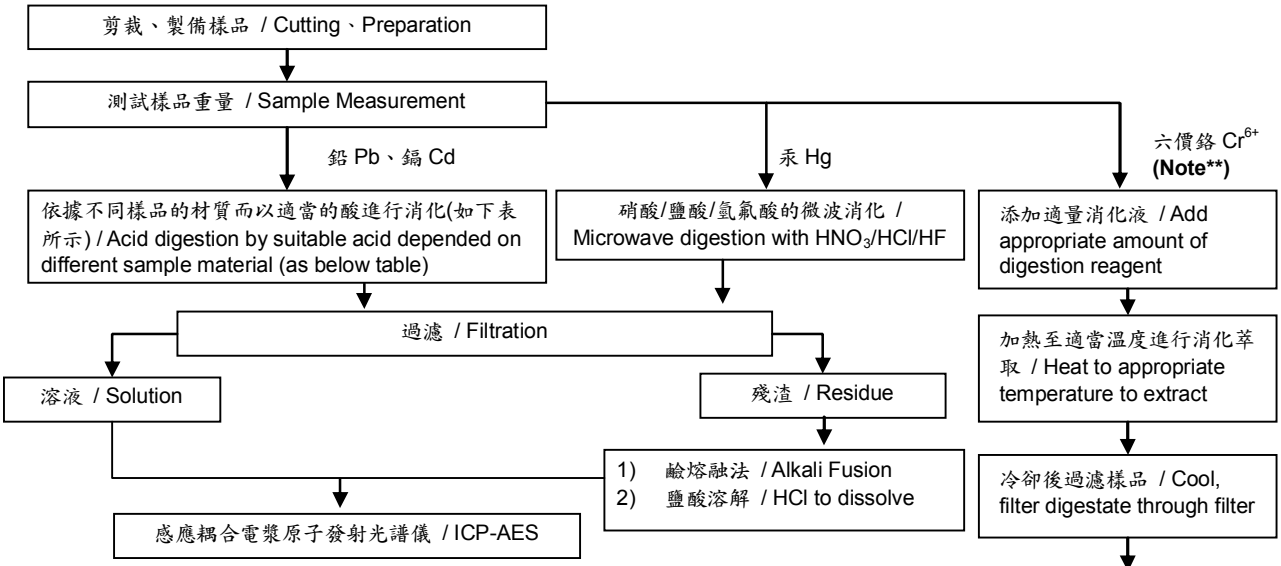
1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. ($Cr^{6+}$ test method excluded)
2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang




| 樣品材質 / Sample Material | 消化酸液種類 / Digestion Acid |
|---|---|
| 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, $H_2O_2$ |
| 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 / $H_2SO_4$, $H_2O_2$, $HNO_3$, HCl |
| 其他 / Others | 加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion |

**Note** :** (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95℃ 萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
(2) 針對金屬材料加入純水，加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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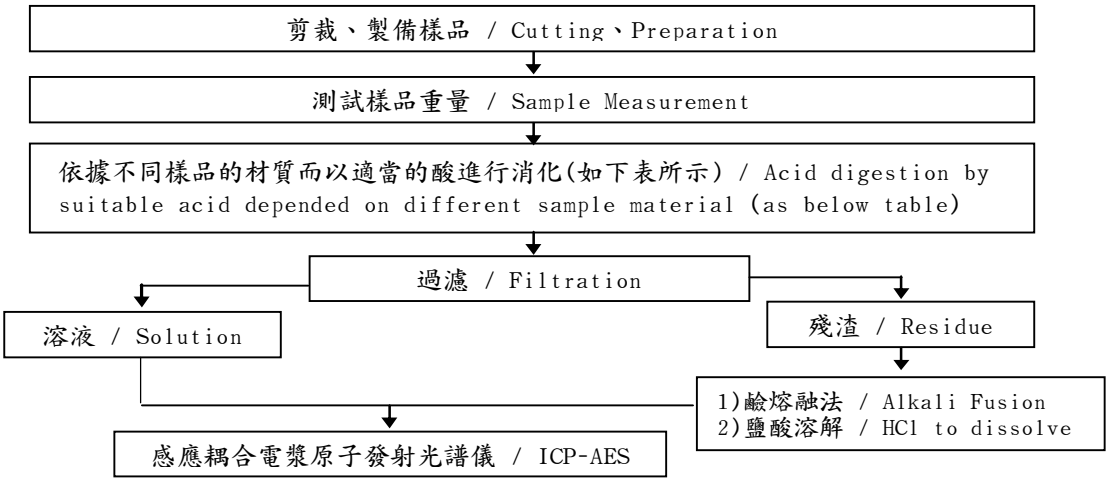
1) 根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

**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, $H_2O_2$ |
| 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 / $H_2SO_4$, $H_2O_2$, $HNO_3$, HCl |
| 其他 / Others | 加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion |

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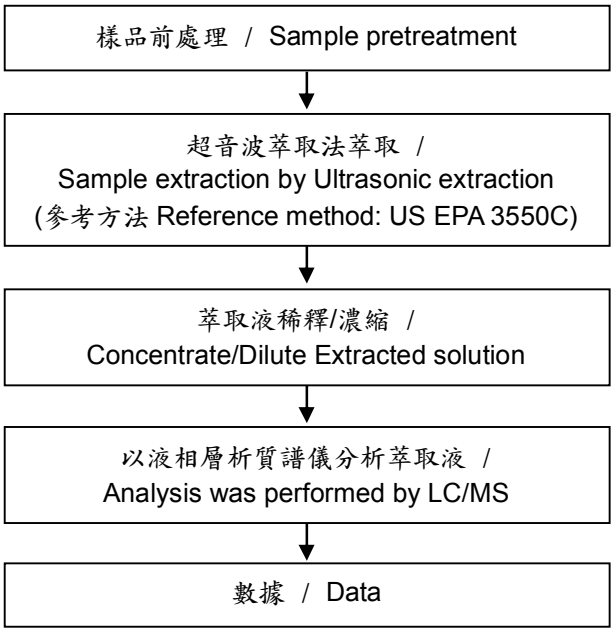
**全氟辛酸(鹽)/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart**

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

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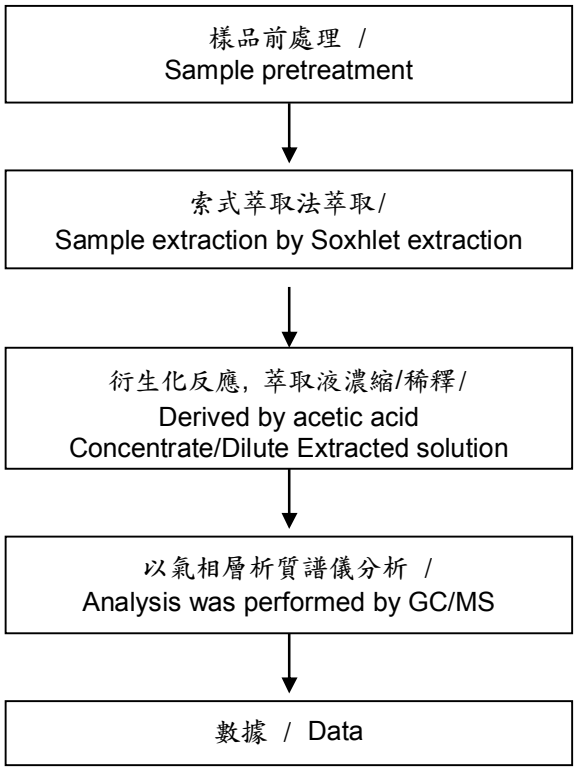
**四溴雙酚 A 分析流程圖 / TBBP-A analytical flow chart**

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

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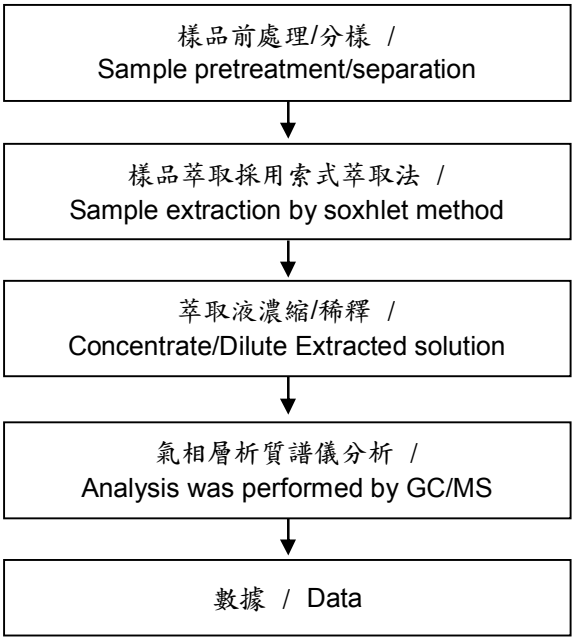
**六溴環十二烷分析流程圖 / HBCDD analytical flow chart**

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

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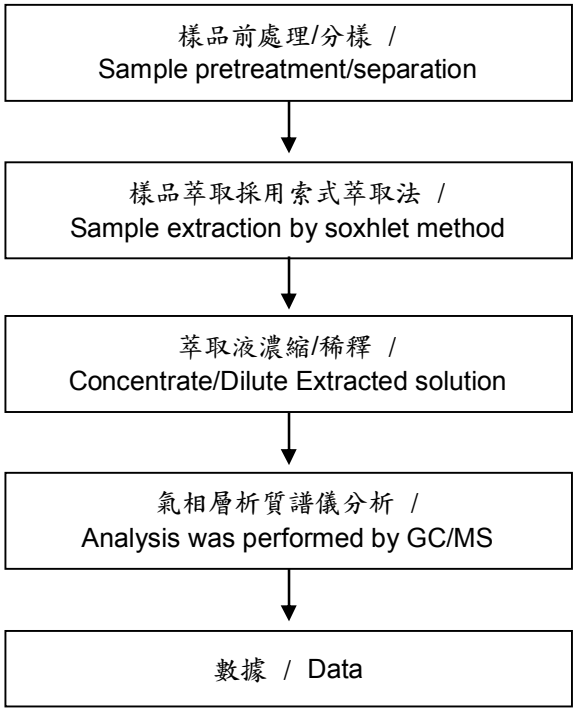
## 可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

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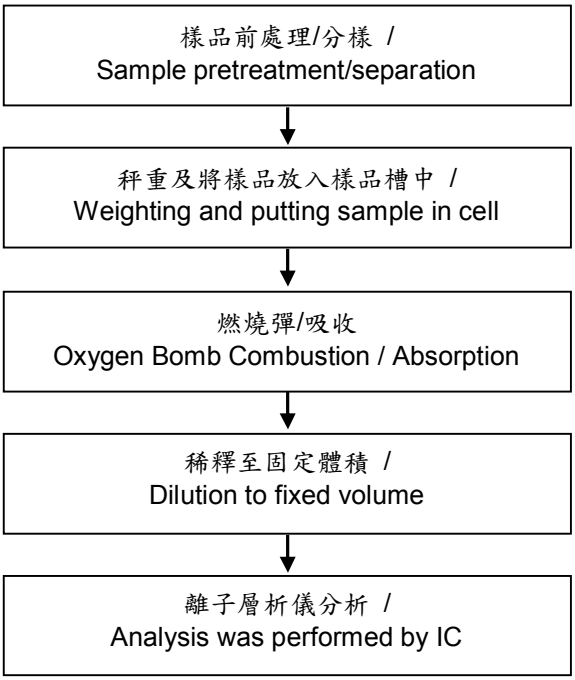
## 鹵素分析流程圖 / Analytical flow chart of halogen content

1) 測試人員：陳恩臻 / Name of the person who made measurement: Rita Chen
2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

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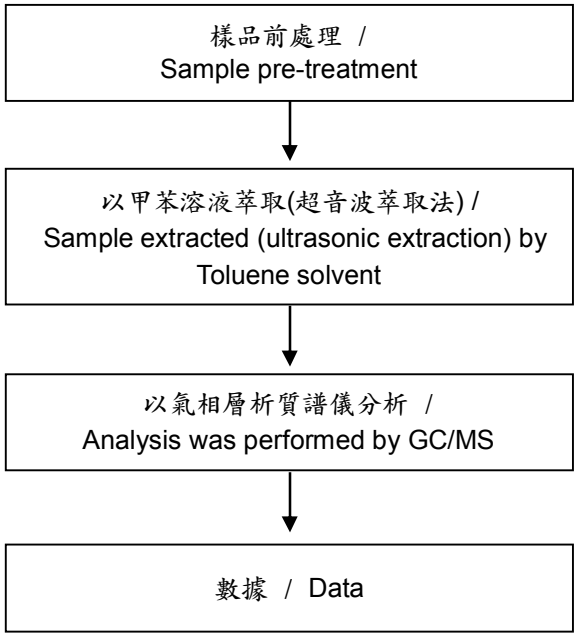
## 多苯環芳香族化合物分析流程圖 /
## PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

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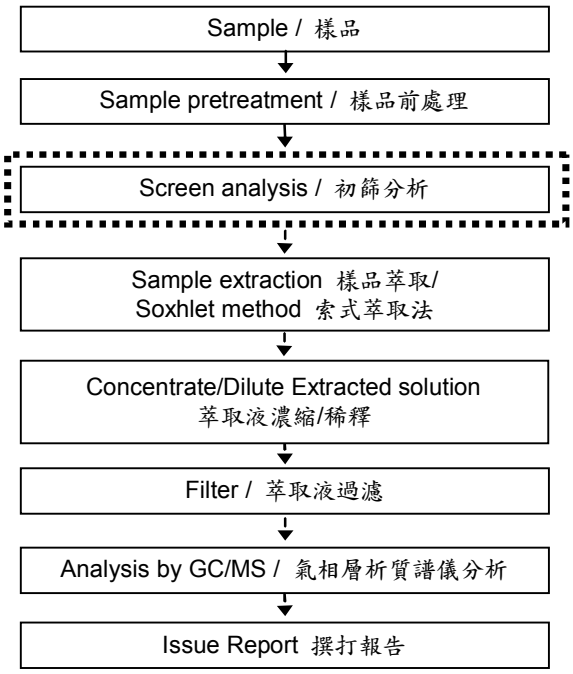
## 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

■ 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
■ 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

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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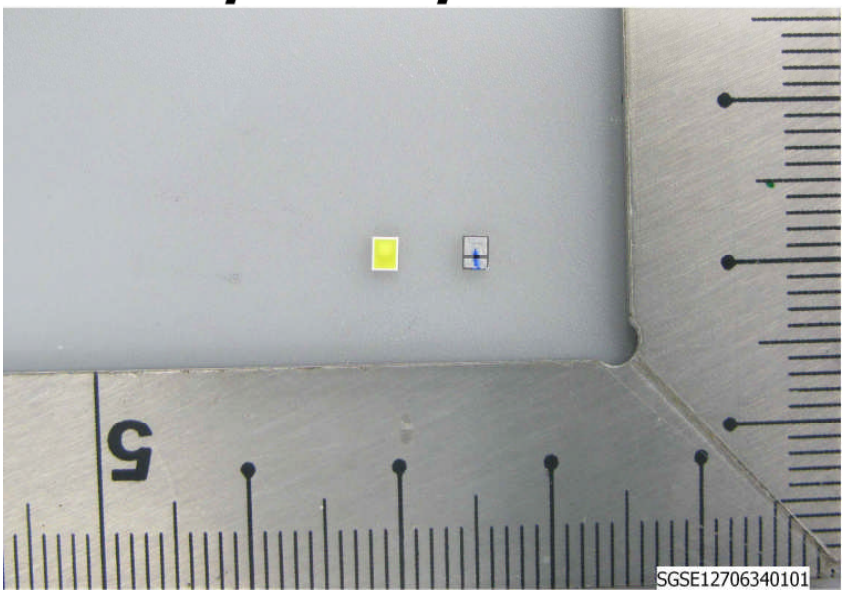
*** 照片中如有箭頭標示，則表示爲實際檢測之樣品/部位. ***
**(The tested sample / part is marked by an arrow if it's shown on the photo.)**

**CE/2012/70634**




** 報告結尾 (End of Report) **

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