

測試報告

Test Report

號碼(No.) : CE/2019/50195

日期(Date) : 2019/05/09

頁數(Page): 1 of 16

華新科技股份有限公司

WALSIN TECHNOLOGY CORPORATION

桃園市楊梅區高獅路566-1號

NO. 566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN 32668, TAIWAN, R. O. C.

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):

送樣廠商(Sample Submitted By) : 華新科技股份有限公司 (WALSIN TECHNOLOGY CORPORATION)
樣品名稱(Sample Description) : MLCC PRODUCTS
樣品型號(Style/Item No.) : X5R
收件日期(Sample Receiving Date) : 2019/05/02
測試期間(Testing Period) : 2019/05/02 to 2019/05/09

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).


Troy Chang / Manager - Tech
Signed for and behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



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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)

測試部位(PART NAME)No. 2 : 0402X105K100CXNX

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | MDL | 結果 (Result) | |
|---|--------------|---|-----|----------------|-------|
| | | | | No. 1 | No. 2 |
| 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 | 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. | --- |
| 汞 / Mercury (Hg) | mg/kg | 參考IEC 62321-4:2013+ AMD1:2017, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4:2013+ AMD1:2017 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; 參考IEC 62321-5 (2013), 以ICP-AES檢測. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. ; With reference to IEC 62321-5 (2013) and performed by ICP-AES. | 8 | 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. | --- |

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| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | MDL | 結果 (Result) | |
|----------------------------------|--------------|---|-----|----------------|-------|
| | | | | No. 1 | No. 2 |
| 多溴聯苯總和 / Sum of PBBs | mg/kg | 參考 IEC 62321-6 (2015), 以氣相層析儀/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. | --- |
| 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. | --- |

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| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | MDL | 結果 (Result) | |
|--|--------------|--|-----|----------------|-------|
| | | | | No. 1 | No. 2 |
| 鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) | 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 | 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(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) | 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. | --- |
| 鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) | 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. | --- |
| 鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) | 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. | --- |
| 鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0) | 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. | --- |

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| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | MDL | 結果 (Result) | |
|--|--------------|--|-----|----------------|-------|
| | | | | No. 1 | No. 2 |
| 鄰苯二甲酸二正己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3) | 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. | --- |
| 鄰苯二甲酸二正庚酯 / DNHP (Di-n-heptyl phthalate) (CAS No.: 3648-21-3) | 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. | --- |
| 鄰苯二甲酸二戊酯 / DNPP (Di-n-pentyl phthalate) (CAS No.: 131-18-0) | 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. | --- |
| 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), 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321 (2008). Analysis was performed by GC/MS. | 5 | 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 | | 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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| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | MDL | 結果 (Result) | |
|--|--------------|--|-----|----------------|----------|
| | | | | No. 1 | No. 2 |
| 全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide) | mg/kg | 參考US EPA 3550C (2007), 以液相層析儀/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 / PFOA (CAS No. : 335-67-1) | mg/kg | 參考US EPA 3550C (2007), 以液相層析儀/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS. | 10 | n. d. | --- |
| 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. | --- |
| 鈹 / Beryllium (Be) | 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. | --- |
| 紅磷 / Red phosphorus | ** | 以熱裂解-氣相層析儀/質譜儀分析. / Analysis was performed by Pyrolyzer-GC/MS. | - | --- | Negative |

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備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出)
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. (◆) :
 若鉻含量小於六價鉻之方法偵測極限值，則六價鉻為n.d.，不須再測試六價鉻。
 The result of Cr(VI) is "n.d." as the result of Chromium (Cr) is less than the MDL of Cr(VI), and confirmation test of Cr(VI) is not required.
 若鉻含量未小於六價鉻之方法偵測極限值，需進行六價鉻測試。
 If the Chromium (Cr) content is not less than the MDL of Cr(VI), confirmation test of Cr(VI) is required.
9. 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.)

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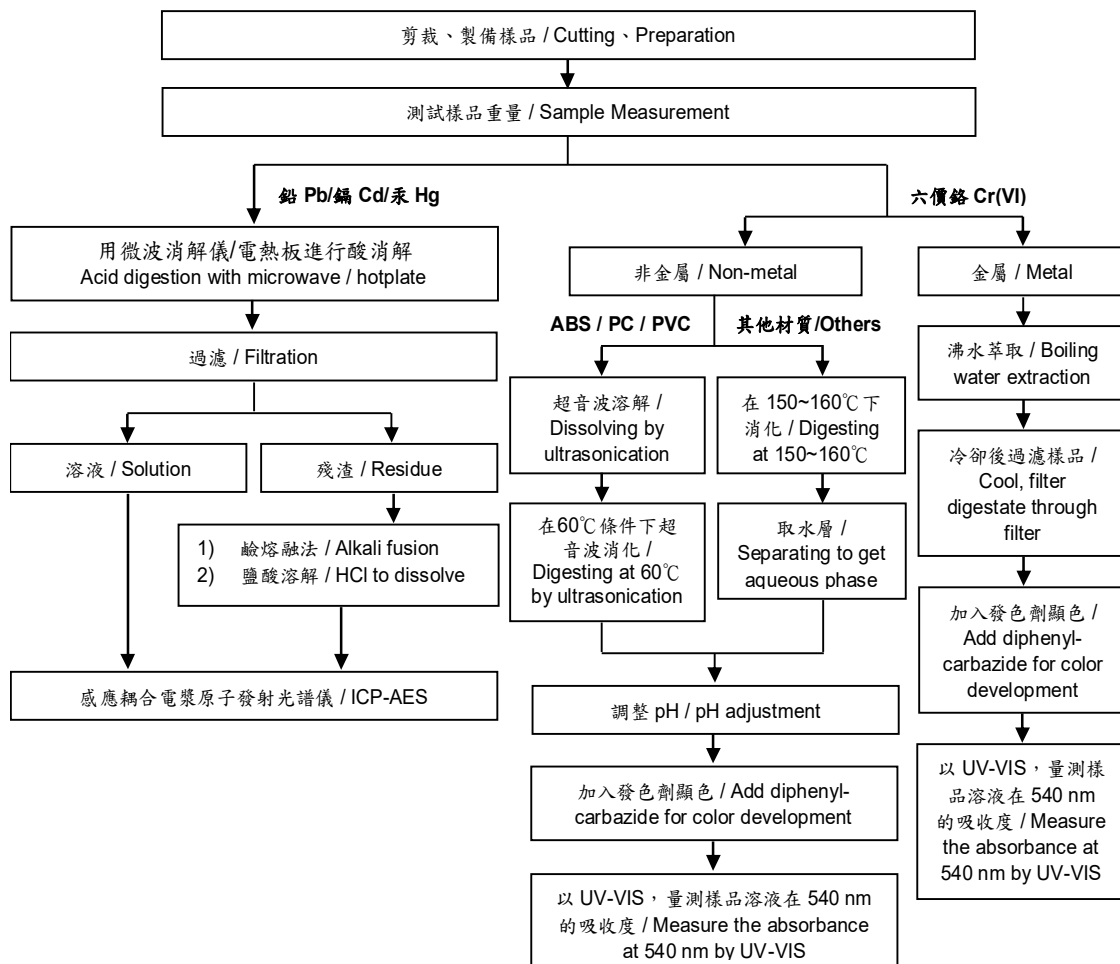
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重金屬流程圖 / Analytical flow chart of Heavy Metal

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：陳思臻 / Technician : Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang



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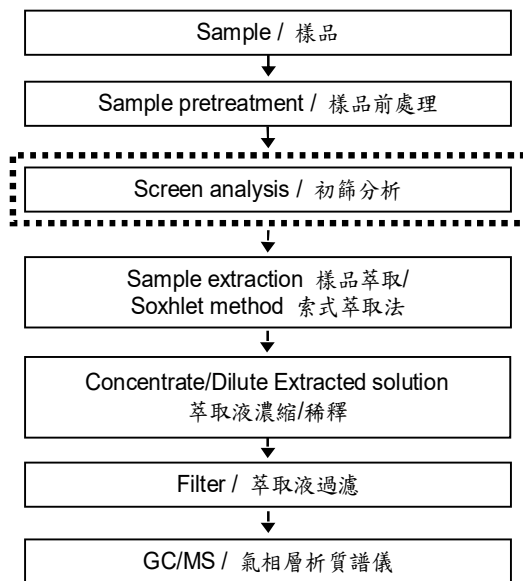
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: 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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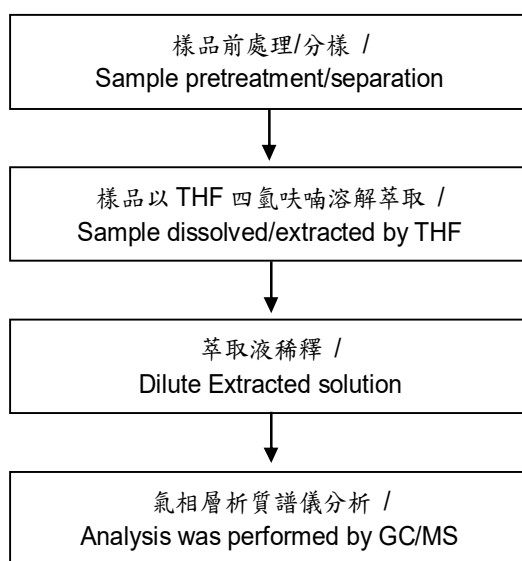
桃園市楊梅區高獅路566-1號

NO. 566-1, KAO-SHI ROAD, YANG-MEI, TAO YUAN 32668, TAIWAN, R. O. C.

可塑劑分析流程圖 / Analytical flow chart - Phthalate

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

【測試方法/Test method: IEC 62321-8】



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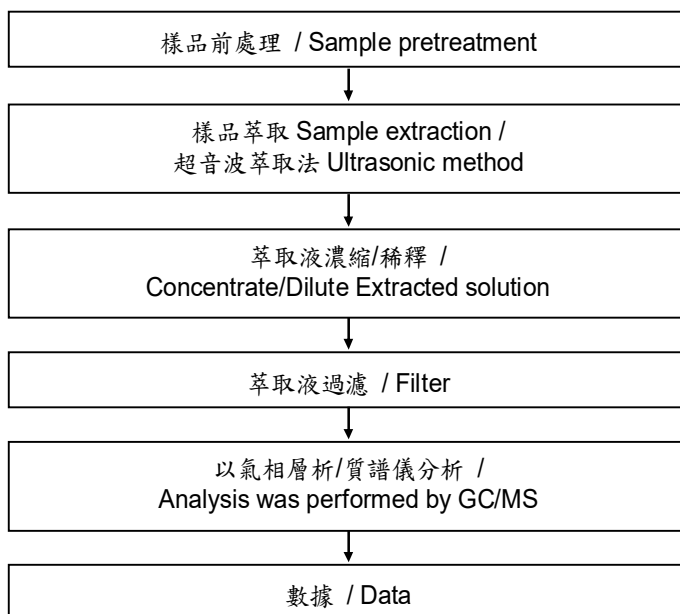
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

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



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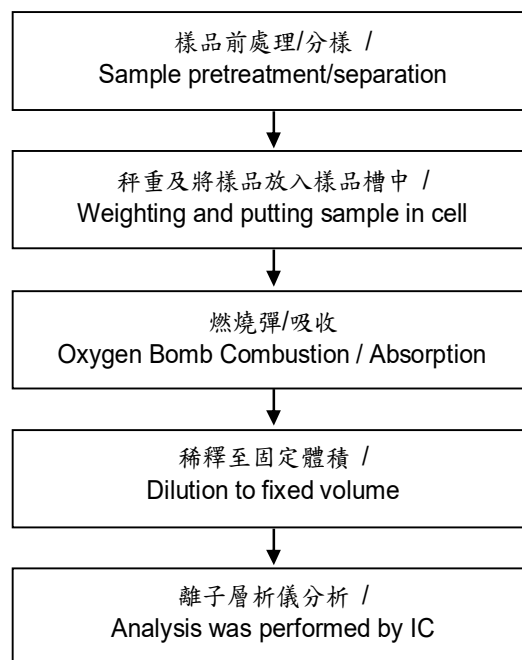
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鹵素分析流程圖 / Analytical flow chart - Halogen

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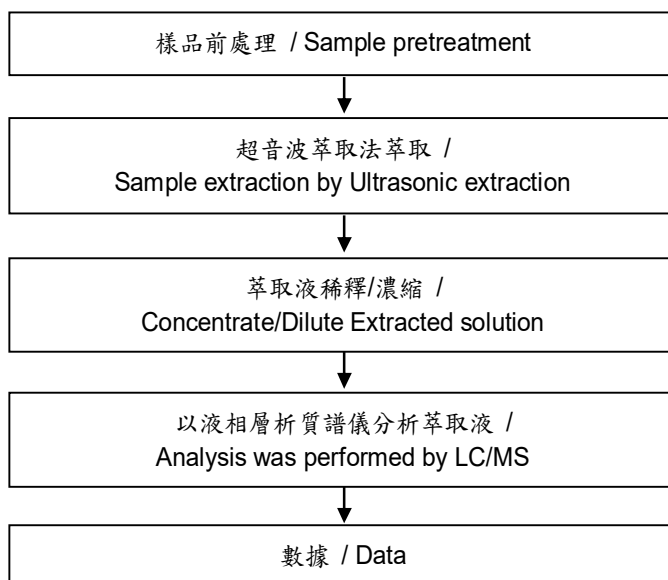
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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

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



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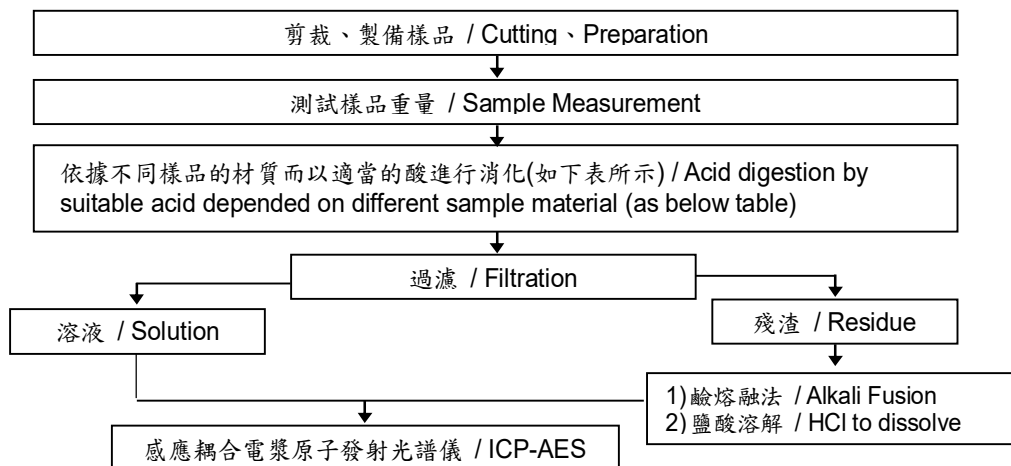
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根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

- 測試人員：陳恩臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: 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 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 | 加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion |

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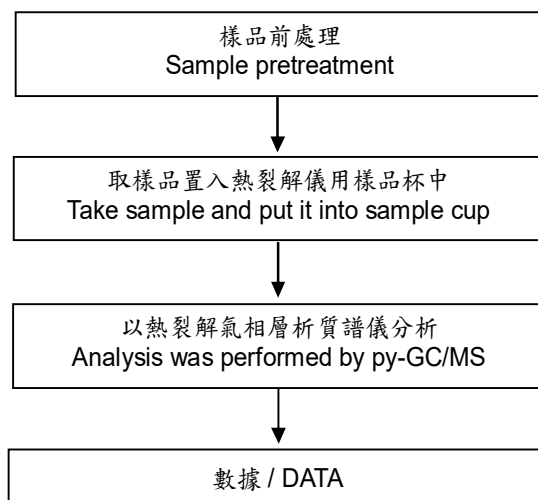
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紅磷分析流程 / Analytical flow chart - Red phosphorus

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



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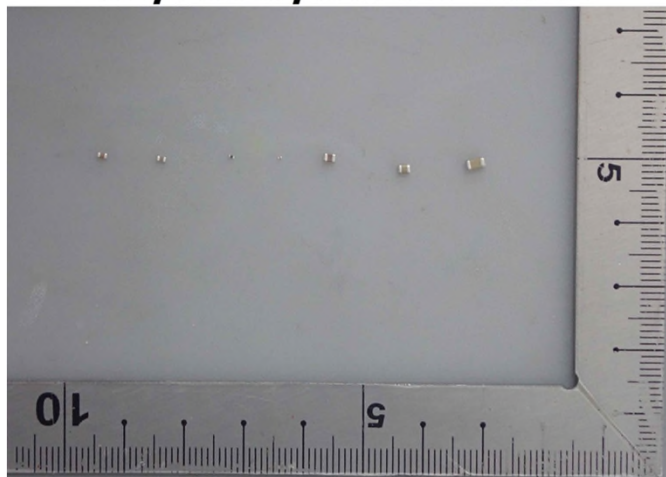
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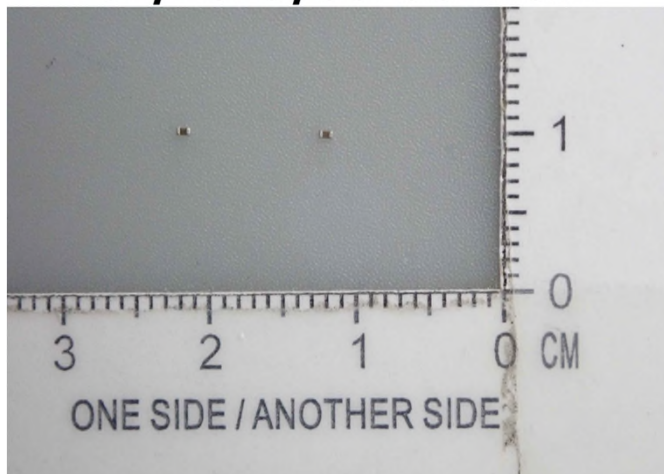
* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 *

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

CE/2019/50195 NO.1



CE/2019/50195 NO.2



** 報告結尾 (End of Report) **

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