

## 測試報告

## Test Report

號碼(No.): ETR21602283M01

日期(Date): 22-Jun-2021

頁數(Page): 1 of 17

林朋科技股份有限公司 (ANOVA TECHNOLOGIES CO., LTD.)

台中市大甲區(幼獅工業區)東二街22號 (NO. 22, E. 2ND ST., (YU-SHIH INDUSTRIAL DIST) DAJIA DIST., TAICHUNG CITY, 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) : 林朋科技股份有限公司 (ANOVA TECHNOLOGIES CO., LTD.)

樣品名稱(Sample Name) : DIODES

樣品型號(Style/Item No.) : K1, KA, KB, KC, KD

收件日(Sample Receiving Date) : 19-Jan-2021 and 15-Jun-2021

測試期間(Testing Period) : 19-Jan-2021 to 26-Jan-2021 and 15-Jun-2021 to 22-Jun-2021

測試需求(Test Requested) : (1) 依據客戶要求，參考美國毒管法(TSCA) 第 6(h) 章節，進行5項持久性生物累積毒性物質 (PBTs) 測試，測試項目請參閱測試結果表格。(As specified by client, the sample(s) was/were tested for 5 PBTs with reference to Regulation of Persistent, Bioaccumulative, Toxic (PBT) Chemicals under Toxic Substances Control Act (TSCA) Section 6(h). Please refer to result table for testing item(s).)  
(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) : 請參閱下一頁 (Please refer to following pages.)

*Troy Chang*  
Troy Chang, Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



PIN CODE: C8B87224

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### 測試部位敘述 (Test Part Description)

- No.1 : 整體混測 (MIXED ALL PARTS (KC)) - ETR21104113  
 No.2 : 整體混測 (MIXED ALL PARTS) - ETR21602283

### 測試結果 (Test Results)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)		限值 (Limit)
				No.1	No.2	
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)	參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。 (With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---	-
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)	參考IEC 62321-5: 2013 · 以感應耦合電漿發射光譜儀分析。 (With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	61000	---	-
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)	參考IEC 62321-4: 2013+ AMD1: 2017 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---	-
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI)) (CAS No.: 18540-29-9)	參考IEC 62321-7-2: 2017 · 以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	---	-

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測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)		限值 (Limit)
				No.1	No.2	
一溴聯苯 (Monobromobiphenyl)	參考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	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.	---	-
多溴聯苯總和 (Sum of PBBs)		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.	---	-	
多溴聯苯醚總和 (Sum of PBDEs)	mg/kg	-	n.d.	---	-	
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7)	參考IEC 62321-8: 2017 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	---	-
鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2)		mg/kg	50	n.d.	---	-
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7)		mg/kg	50	n.d.	---	-
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)		mg/kg	50	n.d.	---	-

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台中市大甲區(幼獅工業區)東二街22號 (NO. 22, E. 2ND ST., (YU-SHIH INDUSTRIAL DIST) DAJIA DIST., TAICHUNG CITY, TAIWAN (R. O. C.))

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)		限值 (Limit)
				No.1	No.2	
六溴環十二烷及所有主要被辨別出的異構物(HBCDD) ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	參考IEC 62321: 2008 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.	---	-
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	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.)	mg/kg	50	n.d.	---	-
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)	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.)	mg/kg	50	67.1	---	-
溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2)	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.)	mg/kg	50	n.d.	---	-
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)	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.)	mg/kg	50	n.d.	---	-

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				No.1	No.2	
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜儀分析。 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	---	-
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜儀分析。 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	---	-
銻 (Sb) (Antimony (Sb)) (CAS No.: 7440-36-0)	參考US EPA 3052: 1996 · 以感應耦合電漿發射光譜儀分析。 (With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---	-
鈹 (Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	參考US EPA 3052: 1996 · 以感應耦合電漿發射光譜儀分析。 (With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---	-
砷 (As) (Arsenic (As)) (CAS No.: 7440-38-2)	參考US EPA 3052: 1996 · 以感應耦合電漿發射光譜儀分析。 (With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	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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				No.1	No.2	
十溴聯苯醚 (DecaBDE) (Decabromodiphenyl ether (DecaBDE)) (CAS No.: 1163-19-5)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	5	---	n.d.	Prohibited / N/A(*3)
異丙基化磷酸三苯酯 (PIP 3:1) (Phenol, isopropylated, phosphate (3:1) (PIP 3:1)) (CAS No.: 68937-41-7)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	5	---	n.d.	Prohibited / N/A(*1)
2,4,6-三叔丁基酚 (2,4,6-TTBP) (2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)) (CAS No.: 732-26-3)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	5	---	n.d.	3000 / N/A(*2)
五氯苯硫酚 (PCTP) (Pentachlorothiophenol (PCTP)) (CAS No.: 133-49-3)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	5	---	n.d.	10000
六氯丁二烯 (HCBd) (Hexachlorobutadiene (HCBd)) (CAS No.: 87-68-3)	參考US EPA 3550C: 2007 · 以氣相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.)	mg/kg	5	---	n.d.	Prohibited

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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); 小於MDL / Less than MDL
4. "-" = Not Regulated (無規格值)
5. "---" = Not Conducted (未測試項目)
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. 全氟辛烷磺酸及其鹽類包含 (PFOS and its salts including) :  
CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.
9. 全氟辛酸及其鹽類包含 (PFOA and its salts including) :  
CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
10. 詳細法規說明請點以下網址連結。(Detail explanation of the regulation is available at the following link.)  
<https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/persistent-bioaccumulative-and-toxic-pbt-chemicals-under>
11. N/A(\*1) : 若產品/成品為以下，則不適用 (The submitted sample is exempted from the regulated scope if it is anyone of the following) :
  - 航空或軍用液壓油 (Hydraulic fluids for aviation or military)
  - 潤滑劑和油脂 (Lubricants and grease)
  - 汽車和航空航天器的新零件和替換零件 (New and replacement parts for motor and aerospace vehicles)
  - 在封閉系統中製造氰基丙烯酸酯粘合劑 (Manufacture of cyanoacrylate adhesives in closed systems)
  - 火車和船舶應用的專用發動機空氣濾清器 (Specialized engine air filters for locomotive and marine applications)
  - 從含PIP(3:1)的產品或成品中回收的塑料 (Plastic for recycling from PIP (3:1)-containing products or articles)
  - 從包含PIP(3:1)的產品或成品中回收的塑料製成的成品或成品 (Finished products or articles made of plastic recycled from PIP (3:1)-containing products or articles)
12. N/A(\*2) : 若產品為非作為潤滑油中添加劑，則不適用。(The submitted sample is exempted from the regulated scope if it is not oil and lubricant additives.)
13. N/A(\*3) : 若產品/成品為以下，則不適用 (The submitted sample is exempted from the regulated scope if it is anyone of the following) :  
從產品或成品進行加工和分銷含十溴二苯醚回收的塑料或者由這種再生塑料製成的含十溴二苯醚的產品或成品。  
(Exempts processing and distribution for recycling of DecaBDE-containing plastic from products or articles and DecaBDE-containing products or articles made from such recycled plastic.)
14. 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 sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.
15. 本報告為合併ETR21104113及ETR21602283之報告。(This report is combined with reports of ETR21104113 and ETR21602283.)

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# 測試報告

## Test Report

號碼(No.): ETR21602283M01

日期(Date): 22-Jun-2021

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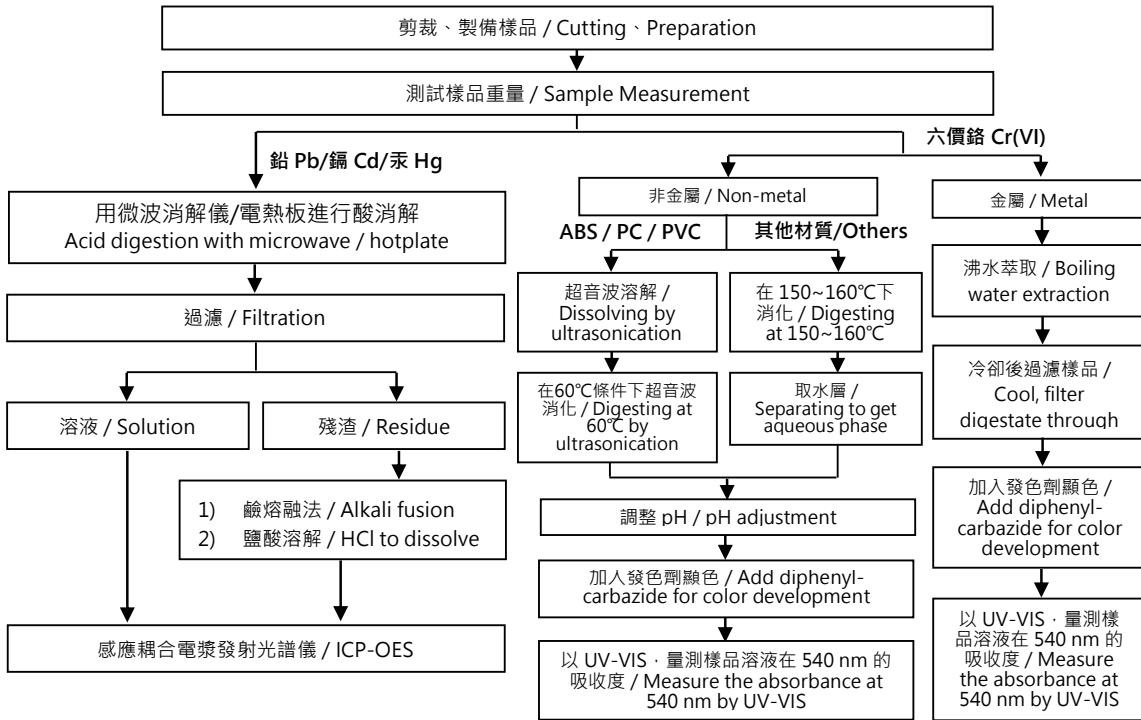
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### 重金屬流程圖 / Analytical flow chart of Heavy Metal

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.  
(Cr<sup>6+</sup> test method excluded)



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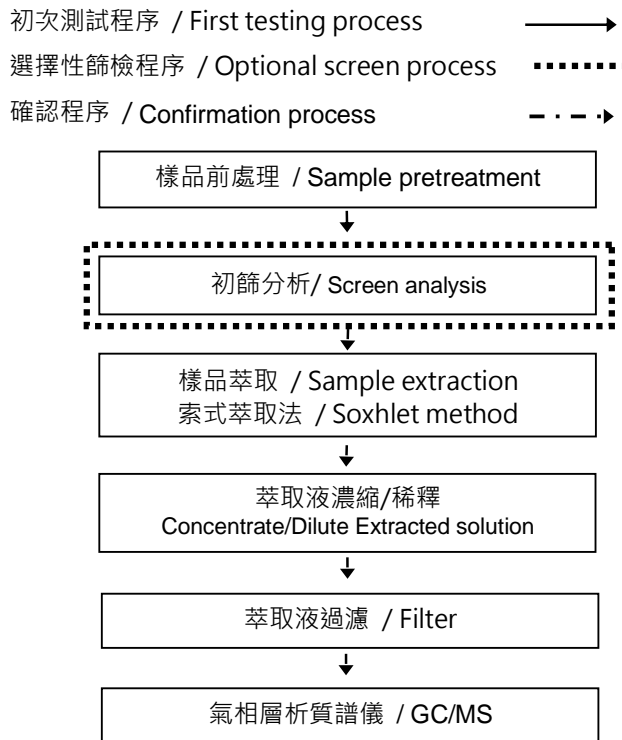
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### 多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs



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## 測試報告

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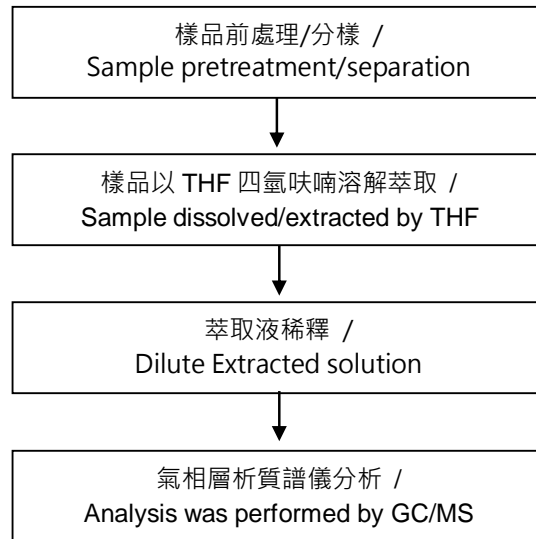
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### 可塑劑分析流程圖 / Analytical flow chart - Phthalate

#### 【測試方法/Test method: IEC 62321-8】



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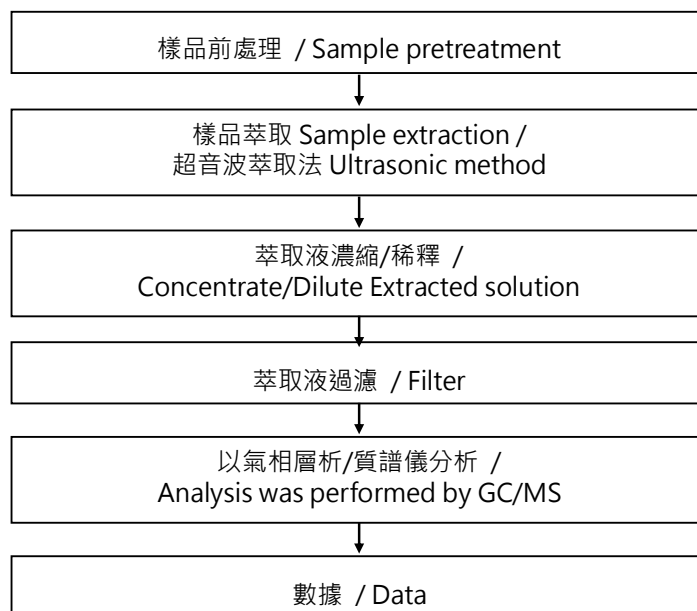
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### 六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD



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## 測試報告

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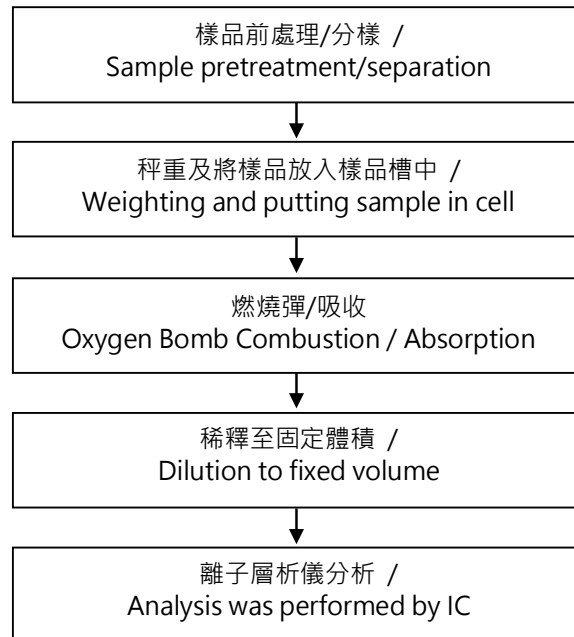
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### 鹵素分析流程圖 / Analytical flow chart - Halogen



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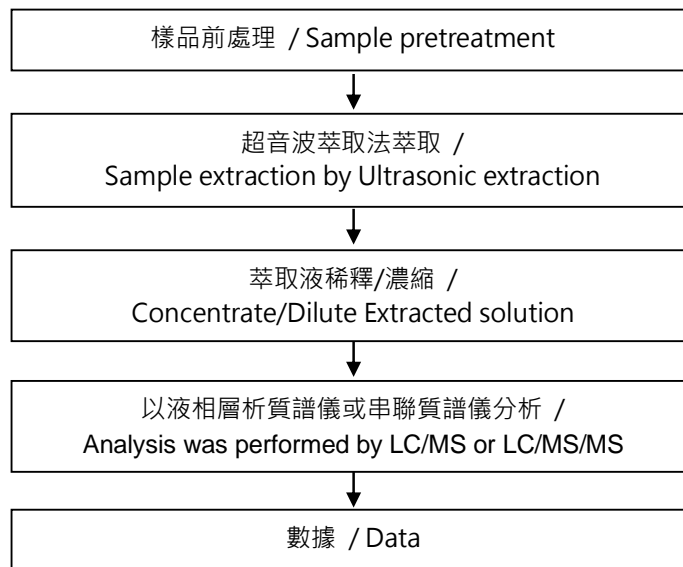
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### 全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS



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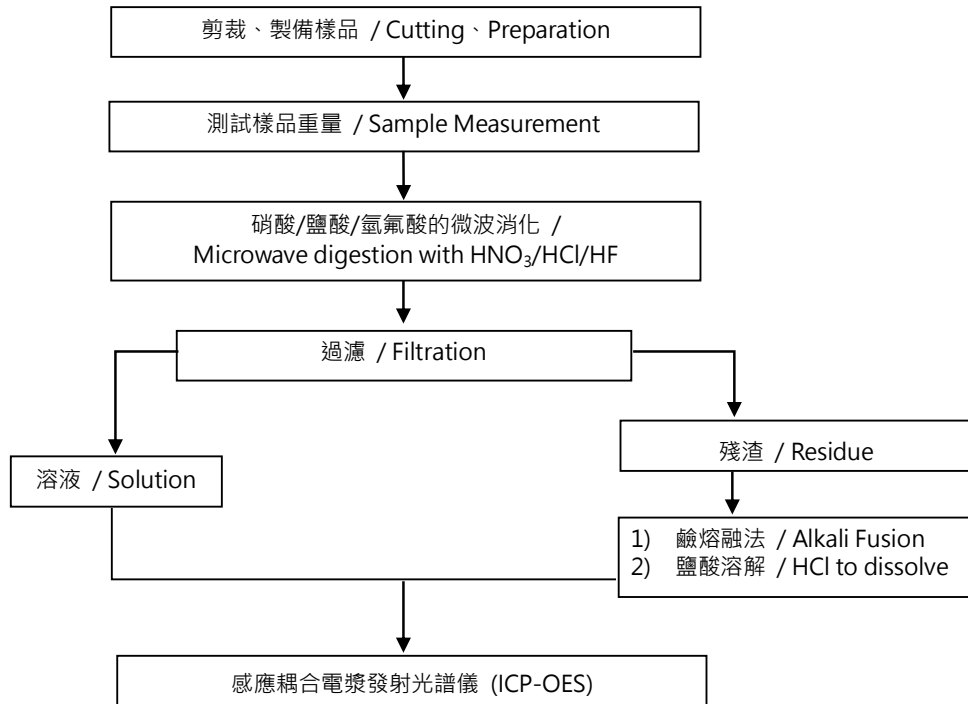
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### 重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件，樣品已完全溶解。

These samples were dissolved totally by pre-conditioning method according to below flow chart.

【參考方法/Reference method : US EPA 3051A、US EPA 3052】



\* US EPA 3051A 方法未添加氫氟酸 / US EPA 3051A method does not add HF.

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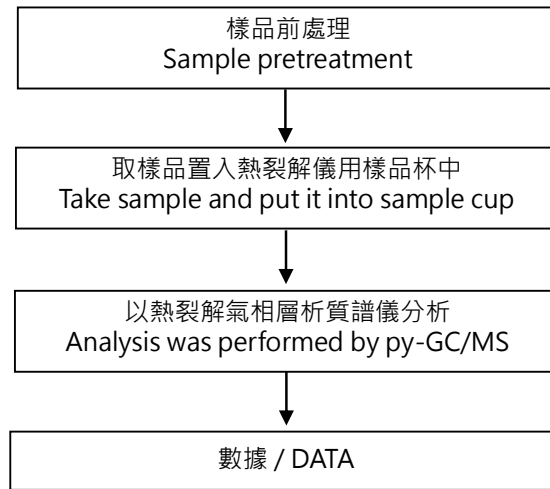
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### 紅磷分析流程 / Analytical flow chart - Red phosphorus



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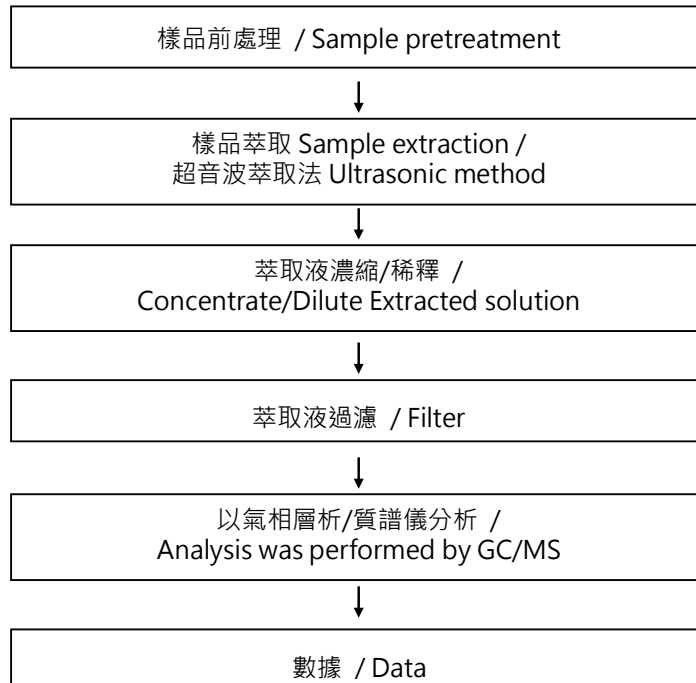
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### 持久性生物累積毒性物質 (PBTs) 分析流程圖 /

### Analytical flow chart - Persistent, Bioaccumulative, Toxic (PBTs)



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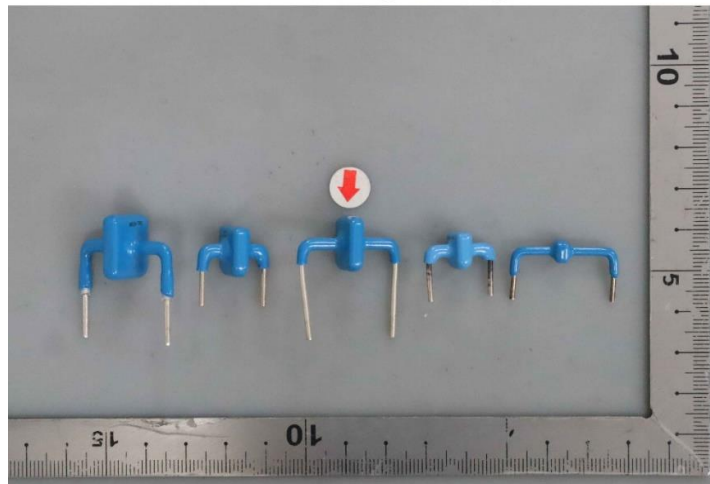
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\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*

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

No.1

### ETR21104113



No.2

### ETR21602283



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