

測試報告 Test Report

號碼(No.) : CE/2009/22616 日期(Date) : 2009/02/18 頁數(Page) : 1 of 13

互銘工業股份有限公司

SELF-MAN INDUSTRIAL CO., LTD.

基隆市七堵區俊賢路25號5樓


5F, NO. 25, CHUN-HSIEN RD., CHI-TU DIST. KEELUNG, 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) :

樣品名稱(Sample Description) : AC POWER CORD
樣品型號(Style/Item No.) : 請參照第7~8頁 (PLEASE REFER TO PAGE 7~8)
收件日期(Sample Receiving Date) : 2009/2/11
測試期間(Testing Period) : 2009/2/11 TO 2009/2/18

=====
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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5F, NO. 25, CHUN-HSIEN RD., CHI-TU DIST. KEELUNG, TAIWAN



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 (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, 用感應藕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	參考IEC 62321: 2008方法, 用感應藕合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	13
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 用感應藕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.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考IEC 62321: 2008方法, 用UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS) PFOS - Acid PFOS - Metal Salt PFOS - Amide	mg/kg	參考US EPA 3540C: 1996方法, 以液相層析質譜儀檢測全氟辛烷磺酸含量. / With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.
全氟辛酸(銨) / PFOA (CAS No.: 000335-67-1)	mg/kg	參考US EPA 3540C: 1996方法, 以液相層析質譜儀檢測全氟辛酸(銨)含量. / With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	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
多苯環芳香族化合物 / Polynuclear Aromatic Hydrocarbons (PAHs)				
Acenaphthene (CAS No.: 000083-32-9)	mg/kg	參考ZLS standard ZEK 01.1-08方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to ZLS standard ZEK 01.1-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Acenaphthylene (CAS No.: 000208-96-8)			0.2	n.d.
Anthracene (CAS No.: 000120-12-7)			0.2	n.d.
Benzo[a]anthracene (CAS No.: 000056-55-3)			0.2	n.d.
Benzo[a]pyrene (CAS No.: 000050-32-8)			0.2	n.d.
Benzo[b]fluoranthene (CAS No.: 000205-99-2)			0.2	n.d.
Benzo[g,h,i]perylene (CAS No.: 000191-24-2)			0.2	n.d.
Benzo[k]fluoranthene (CAS No.: 000207-08-9)			0.2	n.d.
Chrysene (CAS No.: 000218-01-9)			0.2	n.d.
Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)			0.2	n.d.
Fluoranthene (CAS No.: 000206-44-0)			0.2	n.d.
Fluorene (CAS No.: 000086-73-7)			0.2	n.d.
Indeno[1,2,3-c,d] pyrene (CAS No.: 000193-39-5)			0.2	n.d.
Naphthalene (CAS No.: 000091-20-3)			0.2	n.d.
Phenanthrene (CAS No.: 000085-01-8)			0.2	n.d.
Pyrene (CAS No.: 000129-00-0)			0.2	n.d.
多苯環芳香族化合物16項總和 / Sum of 16 PAHs			0.2	n.d.

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基隆市七堵區俊賢路25號5樓

5F, NO. 25, CHUN-HSIEN RD., CHI-TU DIST. KEELUNG, TAIWAN



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, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.		
一溴聯苯 / Monobromobiphenyl			5	n.d.		
二溴聯苯 / Dibromobiphenyl			5	n.d.		
三溴聯苯 / Tribromobiphenyl			5	n.d.		
四溴聯苯 / Tetrabromobiphenyl			5	n.d.		
五溴聯苯 / Pentabromobiphenyl			5	n.d.		
六溴聯苯 / Hexabromobiphenyl			5	n.d.		
七溴聯苯 / Heptabromobiphenyl			5	n.d.		
八溴聯苯 / Octabromobiphenyl			5	n.d.		
九溴聯苯 / Nonabromobiphenyl			5	n.d.		
十溴聯苯 / Decabromobiphenyl			5	n.d.		
多溴聯苯醚總和 / Sum of PBDEs					-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether					5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether					5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether					5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether					5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether					5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether					5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether					5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether					5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.		
十溴聯苯醚 / Decabromodiphenyl ether			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)
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.)

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 基隆市七堵區俊賢路25號5樓
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參考資料(Reference information) :

依據ZEK 01.1-08之要求: 產品中最大值為

(Requirement of ZEK 01.1-08 : Restraining maximum values for products)

項目 (Parameter)	第1類 (Category 1)	第2類 (Category 2)	第3類 (Category 3)
	與食品接觸或放入嘴內的材料, 以及給三歲以下的幼兒使用的玩具。 (Materials in contact with foodstuff or materials which are meant to put in the mouth as well as toys for children <36 months.)	持續地(長時間)與皮膚接觸逾30秒, 以及不屬第1類的玩具。 (Materials with foreseeable skin contact >30 s (prolonged skin contact) and toys not covered by category 1.)	暫時地(短時間)與皮膚接觸但不逾30秒或不會與皮膚接觸。 (Materials with foreseeable skin contact <30 s (short time skin contact) or without skin contact.)
苯駢(a)芘 Benzo[a]pyrene (mg/kg)	<MDL (<0.2)**	1	20
美國環保署規範16項PAH 總濃度 (Sum of 16 EPA-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合適於食品容器或是依照DIN EN1186ff/ § 64 LFGB 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法規規範

(In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material for contact with foodstuff or oral mucosa by additional specific migration tests of PAH components based on DIN EN 1186ff and § 64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.)

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PFOS參考資訊(Reference Information) : 指令 2006/122/EC (Directive 2006/122/EC)

- (1) 該物質不可置於市場上或使用於特殊物質或配置成分重量濃度等於或大於0.005%。
(May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.)
- (2) 該物質不可置於市場上的半成品或商品或其物件；假若零件上明顯地具有PFOS並參照結構上及微細構造上計算PFOS重量濃度等於或大於0.1%，而紡織品或其他覆蓋物質，如果PFOS在覆蓋物質中含量等於或大於 $1\mu\text{g}/\text{m}^2$ 。
(May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than $1\mu\text{g}/\text{m}^2$ of the coated material.)

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樣品型號(Style/Item No.) :

(CABLE)

SPECIFICATION OF CABLE-IRE : SPT-1 18AWG 2C , SPT-2 18AWG 2C ,
NISPT-1 18AWG 2C , NISPT-2 18AWG 2C , SPT-2 18AWG 3C ,
SPT-2 16AWG 2C , SVT 18AWG 2C , SVT 18AWG 3C , SVT 17AWG 2C ,
SVT 16AWG 2C , SJT 16AWG 2C , SJT 18AWG 2C , SJT 18AWG 3C , SJT
16AWG 3C , SJT 14AWG 3C , SJT 14AWG 2C , SJTW 18AWG 2C , SJTW
16AWG 2C , SJTW 14AWG 2C , SJTOW 18AWG 2C , SJTOW 16AWG 2C ,
SJTOW 14AWG 2C , H05VV-F 3G 0.75mm , H05VV-F 3G 1.00mm ,
H05VV-F 3G 1.50mm , H03VVH2-F 2G 0.75mm , H03VV-F 2G 0.75mm ,
H05VV-F 2G 0.75mm , H05VV-F 2G 1.0mm , H05VVH2-F 2G 0.75mm ,
RVV 3G 0.75mm , RVV 3G 1.00mm , RVV 2G 0.75mm , RVV 2G 1.0mm
60227 IEC53 3C 0.75mm , 60227 IEC52 2C 0.75mm ,
UL1007 , UL1015 , UL1185 , UL2464 , UL2468 , UL2725 , UL20276 , UL3122 , VSF
RVB 2G 0.75mm , RVB 2G 1.0mm
(H) VFF 2C 0.75mm , (H) VFF 2C 1.25mm , (H) VFF 2C 2.00mm ,
(H) VCTFK 2C 0.75mm , (H) VCTFK 2C 1.25mm , (H) VCTFK 2C 2.00mm ,
(H) VCTF 2C 0.75mm , (H) VCTF 2C 1.25mm , (H) VCTF 2C 2.00mm .
(H) VCTF 3C 0.75mm , (H) VCTF 3C 1.25mm , (H) VCTF 3C 2.00mm
HHFF 2C 0.75mm , HHFF 2C 1.25mm , HHFF 2C 2.00mm .

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基隆市七堵區俊賢路25號5樓

5F, NO. 25, CHUN-HSIEN RD., CHI-TU DIST. KEELUNG, TAIWAN



(PLUG)

PLUG : SM-001 , SH-001 , SH-001Q , SH-015 , SH-015T1 , SH-015T2 , SH-015T3 ,
SH-015T4 , SH-015A , SH-015B , SH-015D , SH-015R , SH-015S , SH-015Q , SM-045 ,
SH-005 , SH-018 , SH-025 , SH-037 , SH-037A , SH-038 , SH-039 , PSB-10 , SH-051 ,
SH-052 , SM-318 , YP-22K , YP-24 , YP-45 , YP-46 , YP-50 , YP-51 , YP-61 , SW168 ,
SM-003 , YP-18 , YP-48 , YP-21 , YP-12 , SM-018 , SM-318A , SH-015L , SH051R.
SH-1512

(OUTLET)

OUTLET : SM-006 , SM-006L , SM-006L1 , SM-006L2 , SM-006L3 , SH-006 , SH-006L ,
SM-103 , SH-103 , SM-104 , SM-112 , SM-112L , SH-112 , SH-112L , YC-12 , YC-12L ,
YC-13 , YC-14 , YC-21 , SM-035 , SH-102.

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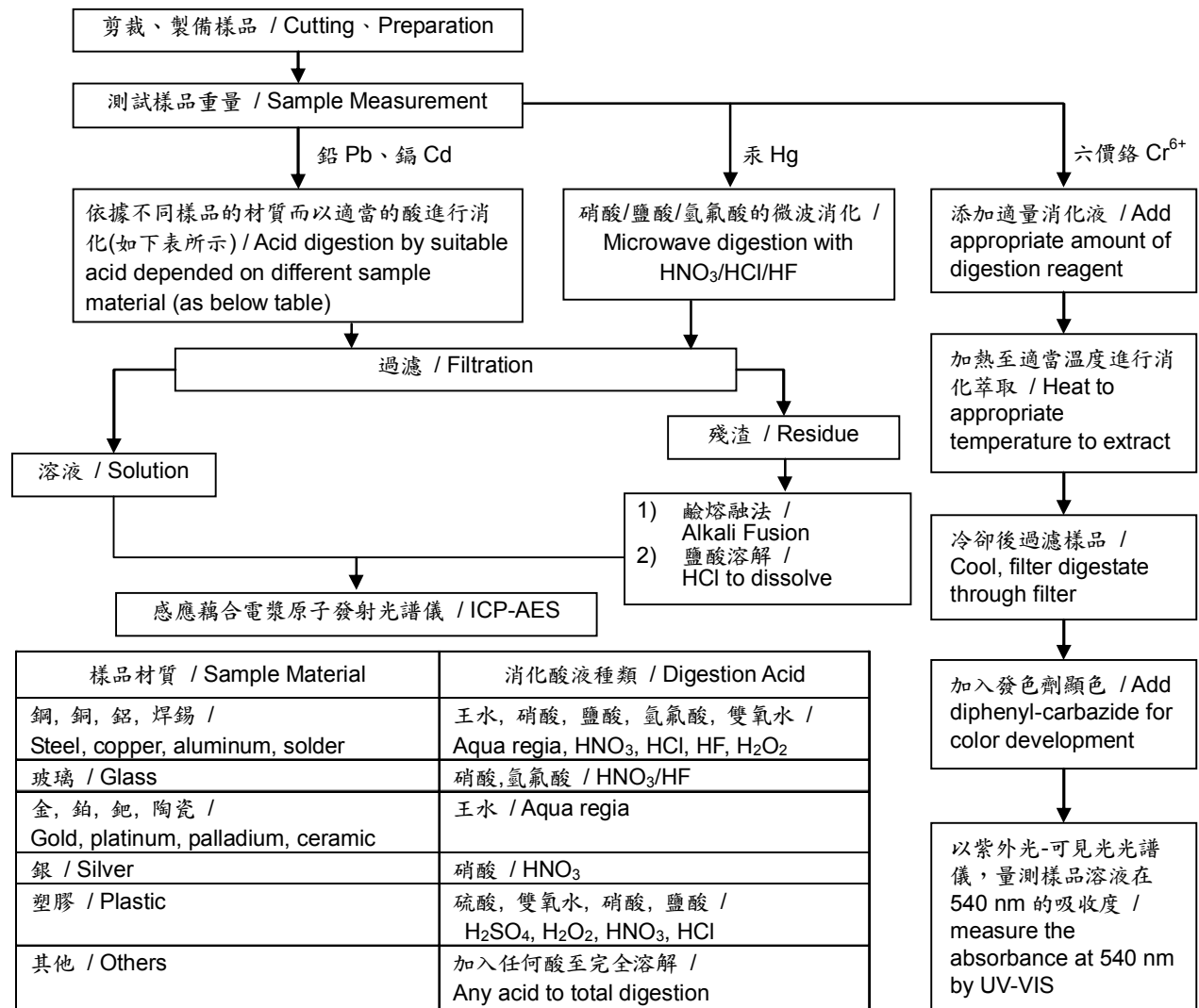
SELF-MAN INDUSTRIAL CO., LTD.

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5F, NO. 25, CHUN-HSIEN RD., CHI-TU DIST. KEELUNG, TAIWAN



- 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. (Cr⁶⁺ 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



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SELF-MAN INDUSTRIAL CO., LTD.

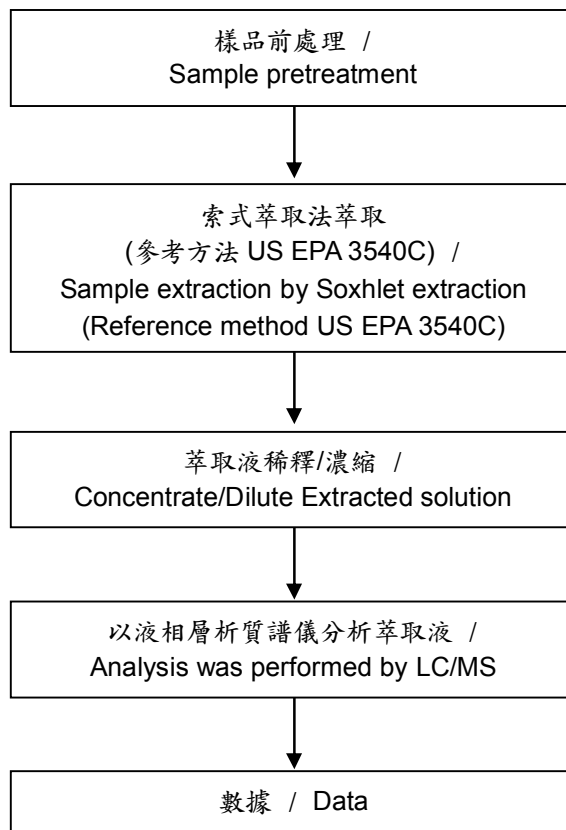
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5F, NO. 25, CHUN-HSIEN RD., CHI-TU DIST. KEELUNG, TAIWAN



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

- 1) 測試人員：劉家瑗 / Name of the person who made measurement: Carrie Liu
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen



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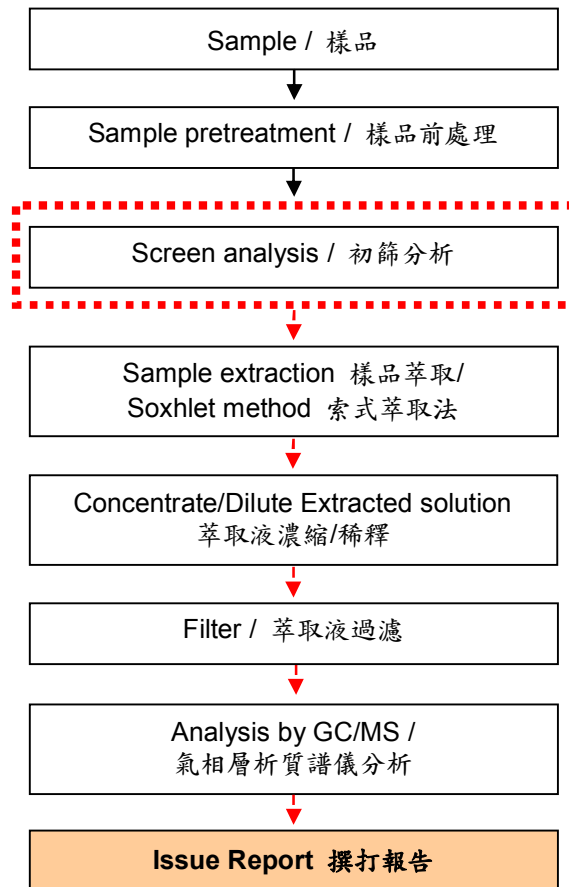
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

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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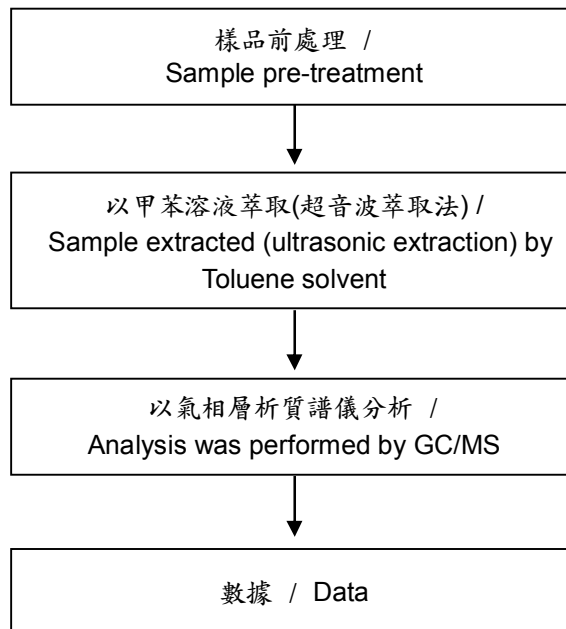
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多苯環芳香族化合物分析流程圖 /

PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

- 1) 測試人員：徐毓明 / Name of the person who made measurement: Andy Shu
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen



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** 報告結尾(End of Report) **

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