

Survey Report

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強茂股份有限公司

PAN JIT GROUP & PAN JIT INTERNATIONAL INC.

高雄市岡山區岡山北路24號

NO. 24, GANGSHAN NORTH ROAD, GANGSHAN DIST., KAOHSIUNG CITY 82063, TAIWAN, R.

O. C.

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) : SOD/SOT(SMALL SINGAL INCLUDE MOSFET)-HF
樣品型號(Style/Item No.) : SOD123/SOD323/SOD523/SOT23/SOT-23-1/SOT323/SOT353/SOT363/SOT363-6L/
SOT523/SOT543/SOT553/SOT563/SOD923/SC70-6L/ SOIC-8
收件日期(Sample Receiving Date) : NO.1:2014/08/11& NO.2-NO.3:2014/09/23
測試期間(Testing Period) : NO.1:2014/08/11 TO 2014/08/22 &NO.2-NO.3 2014/09/23-2014/10/1
送樣廠商(Sample Submitted By) : 義典(無錫義典)科技股份有限公司
(E'DALE(WUXI-E'DALE) TECHNOLOGY CO., LTD)(KA/2014/80504)
強茂股份有限公司 (PAN JIT GROUP & PAN JIT INTERNATIONAL INC.)
(KA/2014/91291&KA/2014/91294)

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

* This report is combined with reports of KA/2014/80504 & KA/2014/91291 & KA/2014/91294 .
此份報告為合併 KA/2014/80504 & KA/2014/91291 & KA/2014/91294 之報告


Ray Chang / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited
Chemical Laboratory-Kaohsiung





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測試結果(Test Results)

測試部位(PART NAME) NO.1 : 黑色 EPOXY MOLDING COMPOUND (BLACK EPOXY MOLDING COMPOUND)(KA/2014/80504)

測試部位(PART NAME) NO.2 : 銀色 LEAD FREE PLATING USE PURE MATTE TIN(使用霧錫電鍍) (SILVER LEAD FREE PLATING USE PURE MATTE TIN(使用霧錫電鍍)) (KA/2014/91291)

測試部位(PART NAME) NO.3 : 銀色 LEAD FRAME(ALLOY 42) (SILVER LEAD FRAME(ALLOY 42)) (KA/2014/91294)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結果 (Result)		
				NO.1	NO.2	NO.3
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 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.	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法, 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.	n.d.	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	n.d.	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.	---	---
六價鉻 / Hexavalent Chromium Cr(VI) by boiling water extraction#	**	參考IEC 62321: 2008方法, 用boiling water extraction方法檢測. / With reference to IEC 62321: 2008 and performed by boiling water extraction Method.	0.02mg/kg with 50 cm ² surface area	---	Negative	Negative

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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	結果 (Result)		
				NO.1	NO.2	NO.3
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.	n.d.	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.	n.d.	n.d.
多溴聯苯醚總和 / Sum of PBDEs	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.	n.d.	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.	n.d.	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.	n.d.	n.d.
銻 / Antimony (Sb)	mg/kg	參考US EPA 3052方法, 用感應藕合電漿原子發射光譜儀檢測銻含量. / With reference to US EPA Method 3052 for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.	n.d.	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	結果 (Result)		
				NO.1	NO.2	NO.3
砷 / Arsenic (As)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測砷含量. / With reference to US EPA Method 3052 for Arsenic Content. Analysis was performed by ICP-AES.	2	n.d.	---	---
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測鈹含量. / With reference to US EPA Method 3052 for Beryllium Content. Analysis was performed by ICP-AES.	2	n.d.	---	---
磷 / Phosphorus (P)	mg/kg	參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測磷含量. / With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	2	147	---	---
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	-	Negative	---	---
雙酚 A / Bisphenol A (CAS No.: 80-05-7)	mg/kg	參考RSTS-HL-229-1方法, 以液相層析/質譜儀檢測. / With reference to RSTS-HL-229-1 method. Analysis was performed by LC/MS.	1	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	結果 (Result)		
				NO.1	NO.2	NO.3
紅磷 / Red phosphorus	**	本測試以熱裂解儀分析。 / Analysis was performed by Pyrolyzer-GC/MS.	-	Negative	---	---
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方法, 以氣 相層析/質譜儀檢測。 / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.	---	---
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.	---	---
富馬酸二甲酯 / Dimethyl Fumarate (CAS No.: 624-49-7)	mg/kg	參考US EPA 3550C方法, 以氣相層 析質譜儀(GC/MS)檢測。 / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	0.1	n.d.	---	---
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	參考RSTS-E&E-121方法, 以液相層 析/質譜儀分析。 / With reference to RSTS-E&E-121. Analysis was performed by LC/MS.	10	n.d.	---	---

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				NO.1	NO.2	NO.3
可塑劑定量分析 / Phthalates						
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	本測試參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	---	---
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	本測試參考EN 14372, 以氣相層析儀/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)	%	本測試參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	---	---
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0, 68515-49-1)	%	本測試參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	---	---
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0, 68515-48-0)	%	本測試參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	---	---
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%	本測試參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	---	---

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				NO.1	NO.2	NO.3
鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	%	本測試參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	---	---
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	%	本測試參考EN 14372, 以氣相層析儀/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(C6-8支鏈與直鏈)烷基酯, 富C7(1,2-Benzenedicarboxylic acid, di-C6-8-branchedalkyl esters, C7-rich) (DIHP)	%	本測試參考EN 14372, 以氣相層析儀/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(C7-11支鏈與直鏈)烷基酯 (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (DHNUP)	%	本測試參考EN 14372, 以氣相層析儀/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(2-甲氧基乙基)酯 / DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	%	本測試參考EN 14372, 以氣相層析儀/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)	%	本測試參考EN 14372, 以氣相層析儀/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	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	結果 (Result)		
				NO.1	NO.2	NO.3
鄰苯二甲酸二異戊酯 / DIPP (Diisopentyl Phthalat) (CAS No.: 605-50-5)	%	本測試參考EN 14372, 以氣相層析儀/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.	n.d.	n.d.
鹵素 (氯) / 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	79.2	n.d.	n.d.
鹵素 (溴) / 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.	n.d.	n.d.
鹵素 (碘) / 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.	n.d.	n.d.

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強茂股份有限公司

PAN JIT GROUP & PAN JIT INTERNATIONAL INC.

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NO. 24, GANGSHAN NORTH ROAD, GANGSHAN DIST., KAOHSIUNG CITY 82063, TAIWAN, R.

O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結果 (Result)		
				NO.1	NO.2	NO.3
多苯環芳香族化合物 / Polynuclear Aromatic Hydrocarbons (PAHs)						
菲 / Phenanthrene (CAS No.: 85-01-8)	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.	---	---
芘 / Pyrene (CAS No.: 129-00-0)	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.	---	---
萘 / Naphthalene (CAS No.: 91-20-3)	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.	---	---
茚酮芘 / Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)	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.	---	---

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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	結果 (Result)		
				NO.1	NO.2	NO.3
芴 / Fluorene (CAS No.: 86-73-7)	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.	---	---
苯駢芴 / Fluoranthene (CAS No.: 206-44-0)	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.	---	---
二苯駢蒽 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3)	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.	---	---
Chrysene (CAS No.: 218-01-9)	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.	---	---
苯(k)苯駢芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	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.	---	---

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強茂股份有限公司

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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	結果 (Result)		
				NO.1	NO.2	NO.3
苯駢芘 / Benzo[g,h,i]perylene (CAS No.: 191-24-2)	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.	---	---
苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2)	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.	---	---
苯駢(a)芘 / Benzo[a]pyrene (CAS No.: 50-32-8)	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.	---	---
苯駢蒽 / Benzo[a]anthracene (CAS No.: 56-55-3)	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.	---	---
蒽 / Anthracene (CAS No.: 120-12-7)	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.	---	---

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O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值	結果 (Result)		
				NO.1	NO.2	NO.3
蒽烯 / Acenaphthylene (CAS No.: 208-96-8)	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.	---	---
蒽 / 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.	---	---
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2)	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.	---	---
苯(j)苯駢芘 / Benzo[j]fluoranthene (CAS No.: 205-82-3)	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.	---	---
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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NO. 24, GANGSHAN NORTH ROAD, GANGSHAN DIST., KAOHSIUNG CITY 82063, TAIWAN, R.

O. C.

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. ** = Qualitative analysis (No Unit) 定性分析(無單位)
6. 聚氯乙稀(PVC):Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
7. 聚氯乙稀測試由SGS其他實驗室執行 (The PVC test was subcontracted to other SGS Laboratory.)
8. 紅磷定性分析測試由SGS其他實驗室執行 (The Red Phosphorus test was subcontracted to other SGS Laboratory.)
9. # = a. Positive means the presence of CrVI on the tested areas
(Positive表示測試區域偵測到六價鉻)
b. Negative means the absence of CrVI on the tested areas
(Negative表示測試區域未偵測到六價鉻)

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² tested areas . /
該溶液濃度 \geq 0.02 mg/kg with 50 cm² (tested areas)

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

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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.)

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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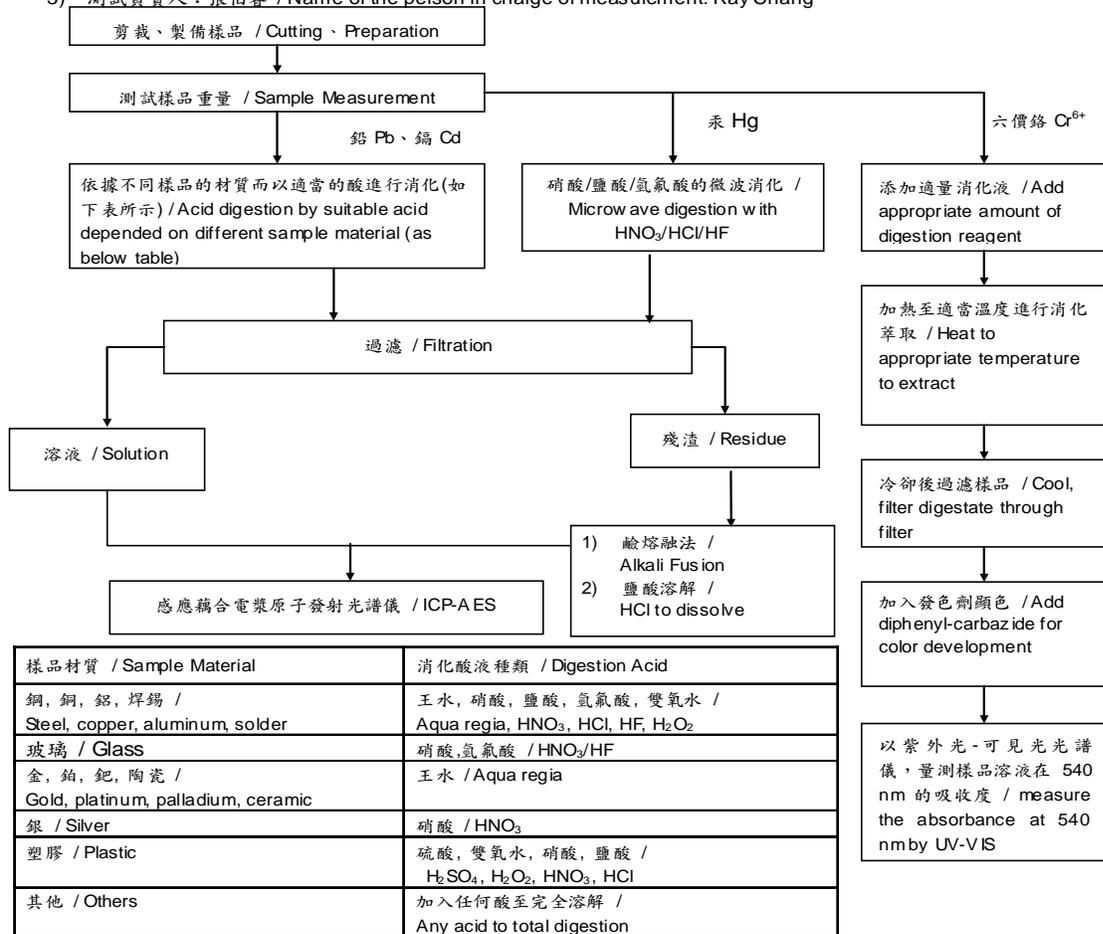
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O. C.

- 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：劉俊宏 / Name of the person who made measurement: Jony Liu
- 3) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



- Note** :**
- (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95°C 萃取。 / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.
 - (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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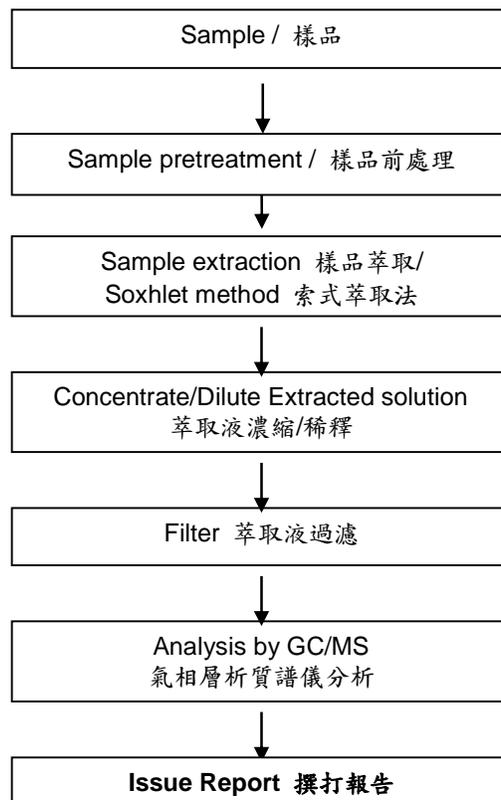
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O. C.

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

1)測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen

2)測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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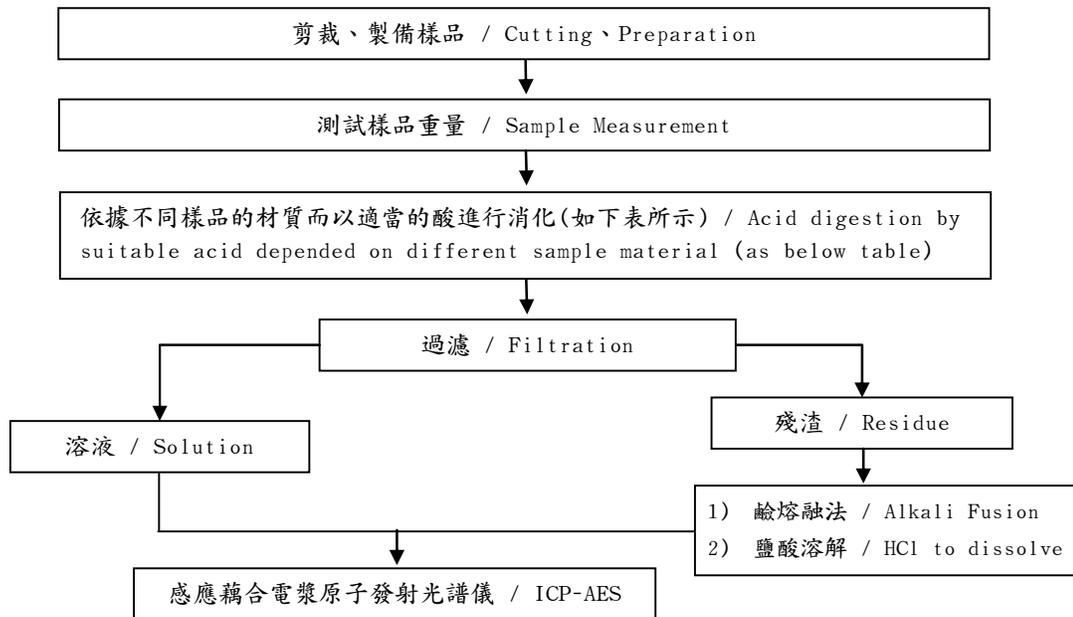
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- 2) 測試人員：劉俊宏 / Name of the person who made measurement: Jony Liu
- 3) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang

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	加入任何酸至完全溶解 / Any acid to total digestion

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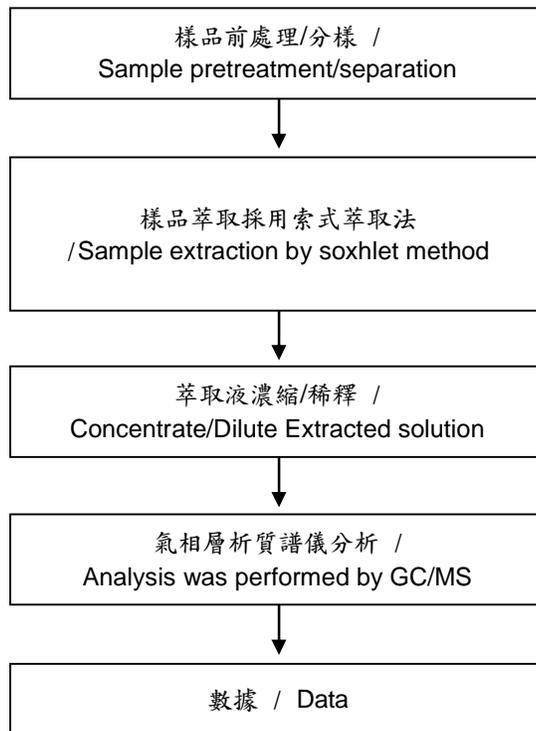
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O. C.

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

1) 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen

2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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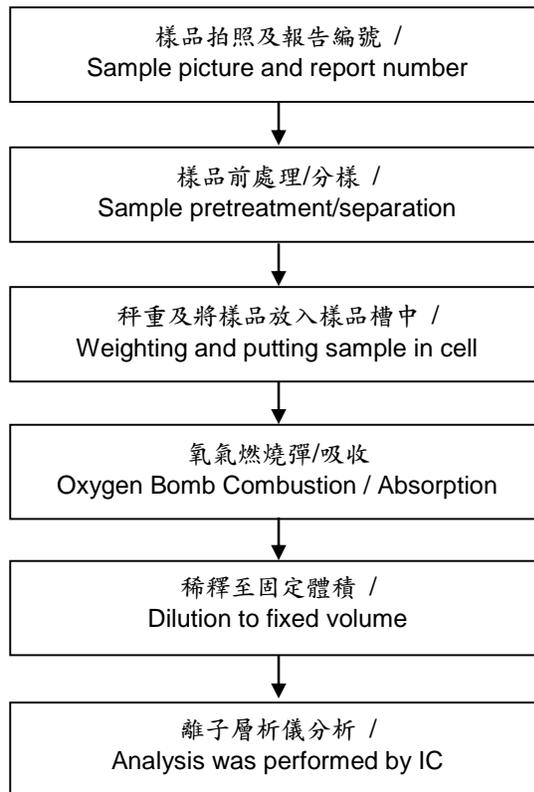
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O. C.

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

- 1) 測試人員：洪秀真/ Name of the person who made measurement: Jean Hung
- 2) 測試負責人：張伯睿/ Name of the person in charge of measurement: Ray Chang



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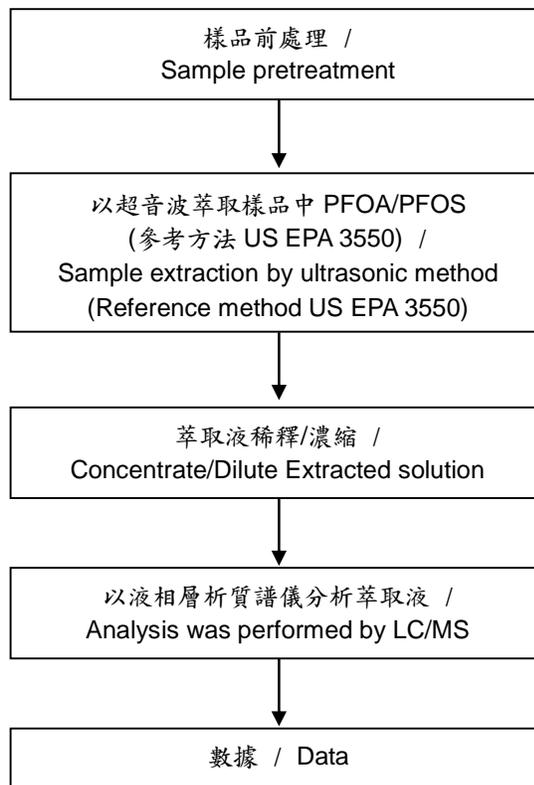
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O. C.

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：黃璟璿 / Name of the person who made measurement: Ginny Huang

2)測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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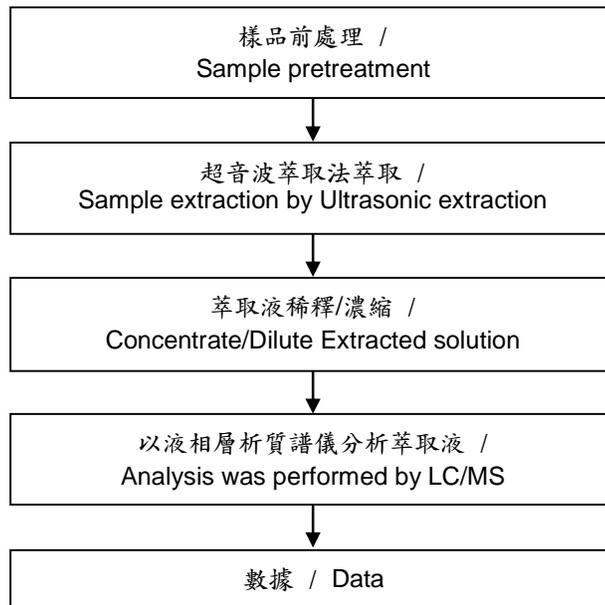
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O. C.

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

- 測試人員：黃璟璵 / Name of the person who made measurement: Ginny Huang
- 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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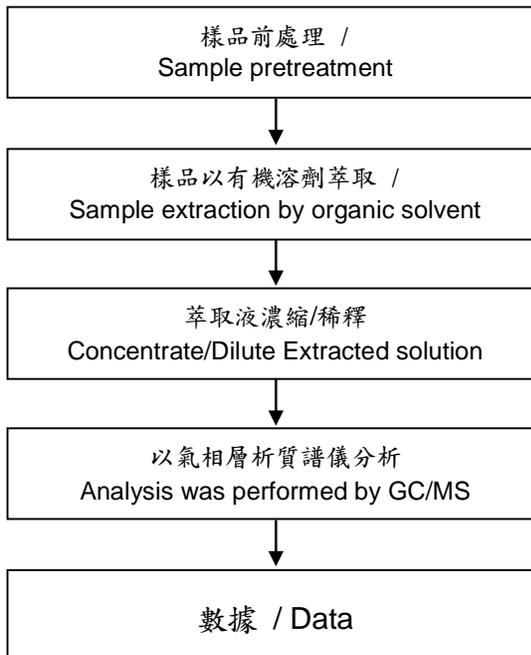
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O. C.

富馬酸二甲酯分析流程圖 /

Analytical flow chart of Dimethyl Fumarate content

- 1) 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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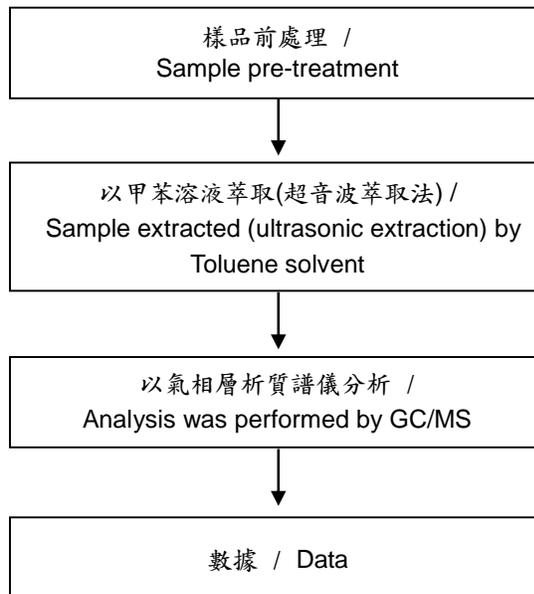
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多苯環芳香族化合物分析流程圖 /

PAHs (Poly Aromatic Hydrocarbons) analytical flow chart

- 1) 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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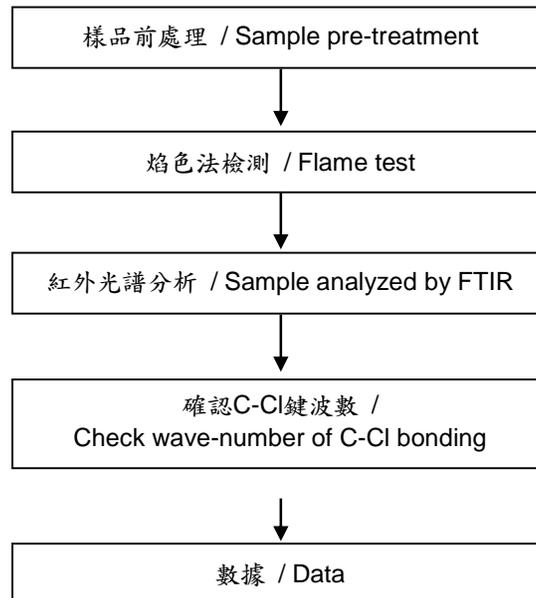
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聚氯乙稀物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

- 1) 測試人員：戴秀純 / Name of the person who made measurement: Hannah Tai
- 2) 測試負責人：林立翔 / Name of the person in charge of measurement: Roger Lin



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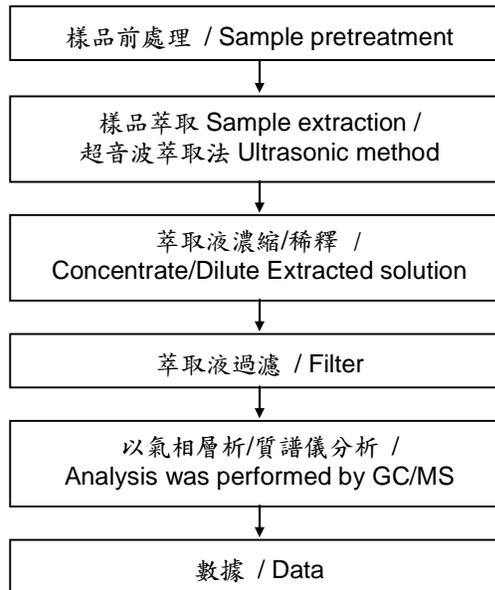
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 1) 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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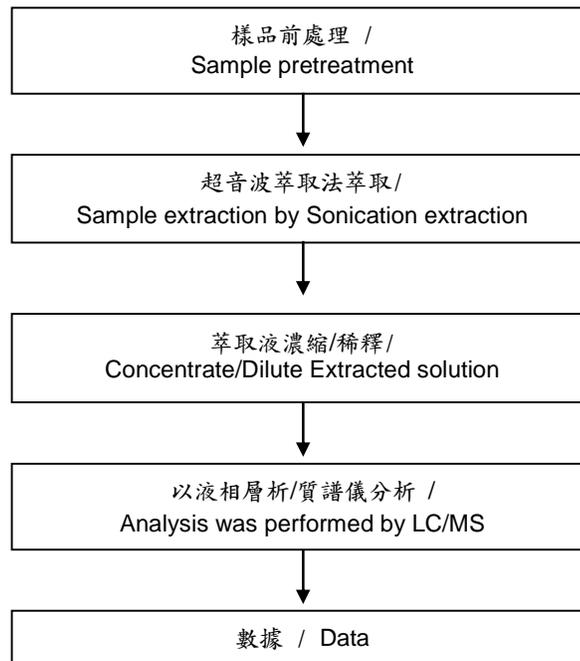
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雙酚A分析流程圖 / Bisphenol A analytical flow chart

- 測試人員：黃璟璵 / Name of the person who made measurement: Ginny Huang
- 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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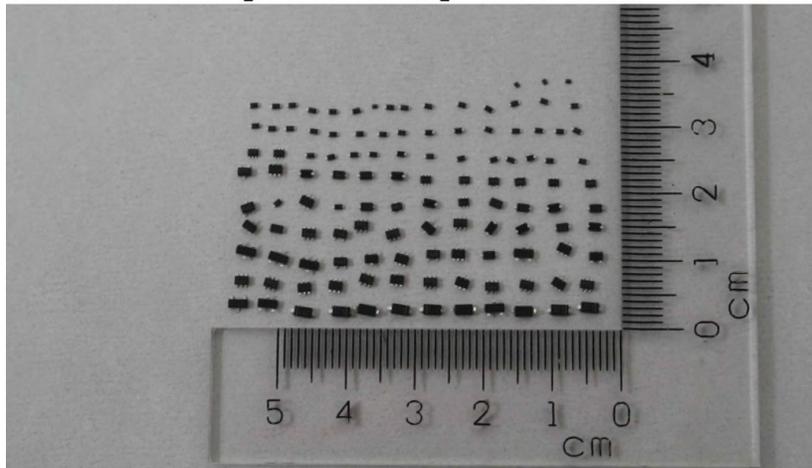
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(The tested sample / part is marked by an arrow if it's shown on the photo.)

KA/2014/A0870



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