

測試報告

Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 1 of 17

美麗微半導體股份有限公司

FORMOSA MICROSEMI CO., LTD.

新北市土城區中央路三段208號5樓


5F., NO. 208, SEC. 3, ZHONGYANG RD., TUCHENG DIST., NEW TAIPEI CITY 23680, TAIWAN



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) : 美麗微半導體股份有限公司 (FORMOSA MICROSEMI CO., LTD.)
- 樣品名稱(Sample Description) : BRIDGE RECTIFIERS PRODUCTS (各項橋式整流產品) / MOLDED TYPE (成型類)
- 樣品型號(Style/Item No.) : LMDS (TBS) / LMBS / MDB / MDS (TO-269AA) / MDS-1 / MDS-6 / MBLS / DF / DFS / DB / DBS / MDLS (MBF) / KBP / KBL / KBU / GBP / GBL / GBJ / GBU / 4GBJ / QFNB
- 其他(Other Info.) : 測試部位(PART NAME)No. 3 : 鉛含量適用ROHS排外條款(1) 7A 高熔點錒錫中的鉛(例如鉛含量 $\geq 85\%$ 合金中的鉛), 使用於產品中的高溫焊錫膏及焊片 SN5 PB92.5 AG2.5 ; (2) 7(C)-I 含鉛之玻璃或陶瓷的電器和電子元件, 介電陶瓷電容器除外例如高壓電子裝置, 或玻璃或陶瓷基複合材料, 使用於產品中的GLASS PASSIVATED(GPP)晶粒。
PART NAME NO. 3 : LEAD CONTENTS IS ROHS EXEMPTION (1) 7(A) LEAD IN HIGH MELTING TEMPERATURE TYPE SOLDERS (I.E. LEAD-BASED ALLOYS CONTAINING 85% BY WEIGHT OR MORE LEAD.) ; (2) 7(C)-I LEAD IN GLASS OF CATHODE RAY TUBES, ELECTRONIC COMPONENTS AND FLUORESCENT TUBES.
- 收件日期(Sample Receiving Date) : 2016/05/31
- 測試期間(Testing Period) : 2016/05/31 TO 2016/06/06

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


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

測試報告

Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 2 of 17

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測試結果(Test Results)

測試部位(PART NAME)No. 1 : 銀色金屬腳鍍層 (PLATING LAYER OF SILVER COLORED METAL PIN)

測試部位(PART NAME)No. 2 : 銀色金屬腳底材 (BASE MATERIAL OF SILVER COLORED METAL PIN)

測試部位(PART NAME)No. 3 : 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	No. 2	No. 3
鎘 / Cadmium (Cd)	mg/kg	酸洗脫鍍層, 參考 IEC 62321-5 (2013), 以感應耦合電漿原子發射光譜儀檢測. / IEC 62321-5 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	n. d.	---	---
	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.	n. d.
鉛 / Lead (Pb)	mg/kg	酸洗脫鍍層, 參考 IEC 62321-5 (2013), 以感應耦合電漿原子發射光譜儀檢測. / IEC 62321-5 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	80.4	---	---
	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	---	23.2	4740

測試報告

Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 3 of 17

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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	No. 2	No. 3
汞 / Mercury (Hg)	mg/kg	酸洗脫鍍層，參考IEC 62321-4 (2013)，以感應耦合電漿原子發射光譜儀檢測。 / IEC 62321-4 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	n. d.	---	---
	mg/kg	參考IEC 62321-4 (2013)，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.
六價鉻 / Hexavalent Chromium Cr(VI)(#2)	µg/cm ²	參考IEC 62321-7-1 (2015)，以UV-VIS檢測。 / With reference to IEC 62321-7-1 (2015) and performed by UV-VIS.	0.10	n. d.	n. d.	---
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321 (2008)，以UV-VIS檢測。 / With reference to IEC 62321 (2008) and performed by UV-VIS.	2	---	---	n. d.
鎳 / Nickel (Ni)	mg/kg	參考US EPA 3050B (1996)，以感應耦合電漿原子發射光譜儀檢測。 / With reference to US EPA 3050B (1996). Analysis was performed by ICP-AES.	2	13.4	---	---
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.

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測試報告

Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 4 of 17

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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	No. 2	No. 3
砷 / Arsenic (As)	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.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	$\mu\text{g}/\text{m}^2$	參考US EPA 3550C (2007), 以液相層析/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	1	n. d.	---	---
全氟辛酸 / PFOA (CAS No.: 335-67-1)	$\mu\text{g}/\text{m}^2$	參考US EPA 3550C (2007), 以液相層析/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by LC/MS.	1	n. d.	---	---
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/CD (2013), 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321-8/CD (2013). 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		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		50	---	---	n. d.
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg		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		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		50	---	---	n. d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg		50	---	---	n. d.

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測試報告

Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 5 of 17

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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	No. 2	No. 3
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/質譜儀檢測. / With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	---	---	n. d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考 IEC 62321-6 (2015), 以氣相層析/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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Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 6 of 17

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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	No. 2	No. 3
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.

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. "---" = Not Conducted (未測項目)
6. (#2) =
 - a. 當六價鉻結果大於0.13 $\mu\text{g}/\text{cm}^2$, 表示樣品表層含有六價鉻. / The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 $\mu\text{g}/\text{cm}^2$. The sample coating is considered to contain Cr(VI).
 - b. 當六價鉻結果為n. d. (濃度小於0.10 $\mu\text{g}/\text{cm}^2$), 表示表層不含六價鉻. / The sample is negative for Cr(VI) if Cr(VI) is n. d. (concentration less than 0.10 $\mu\text{g}/\text{cm}^2$). The coating is considered a non-Cr(VI) based coating
 - c. 當六價鉻結果介於 0.10 及 0.13 $\mu\text{g}/\text{cm}^2$ 時, 無法確定塗層是否含有六價鉻. / The result between 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$ is considered to be inconclusive - unavoidable coating variations may influence the determination.
7. For No. 3 : 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.)

測試報告

Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 7 of 17

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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 $1\mu\text{g}/\text{m}^2$ 。

(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 $1\mu\text{g}/\text{m}^2$.)

測試報告 Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 8 of 17

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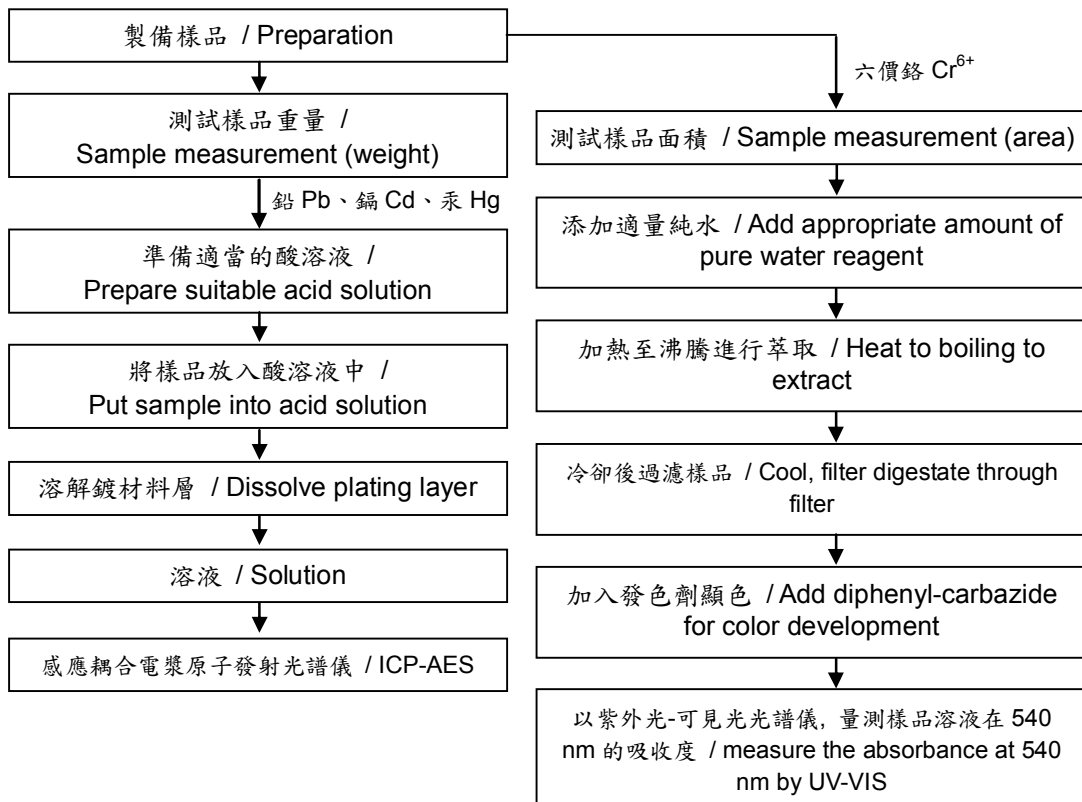


測試部位(PART NAME)No. 1

根據以下的流程圖之條件, 樣品之外部鍍層已完全溶解。(六價鉻測試方法除外) / The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- 測試人員 : 王志瑋 / Technician : JR Wang
- 測試負責人 : 張啟興 / Supervisor: Troy Chang

鍍層重金屬測試流程圖 / Flow Chart of Stripping method for metal analysis



測試報告 Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 9 of 17

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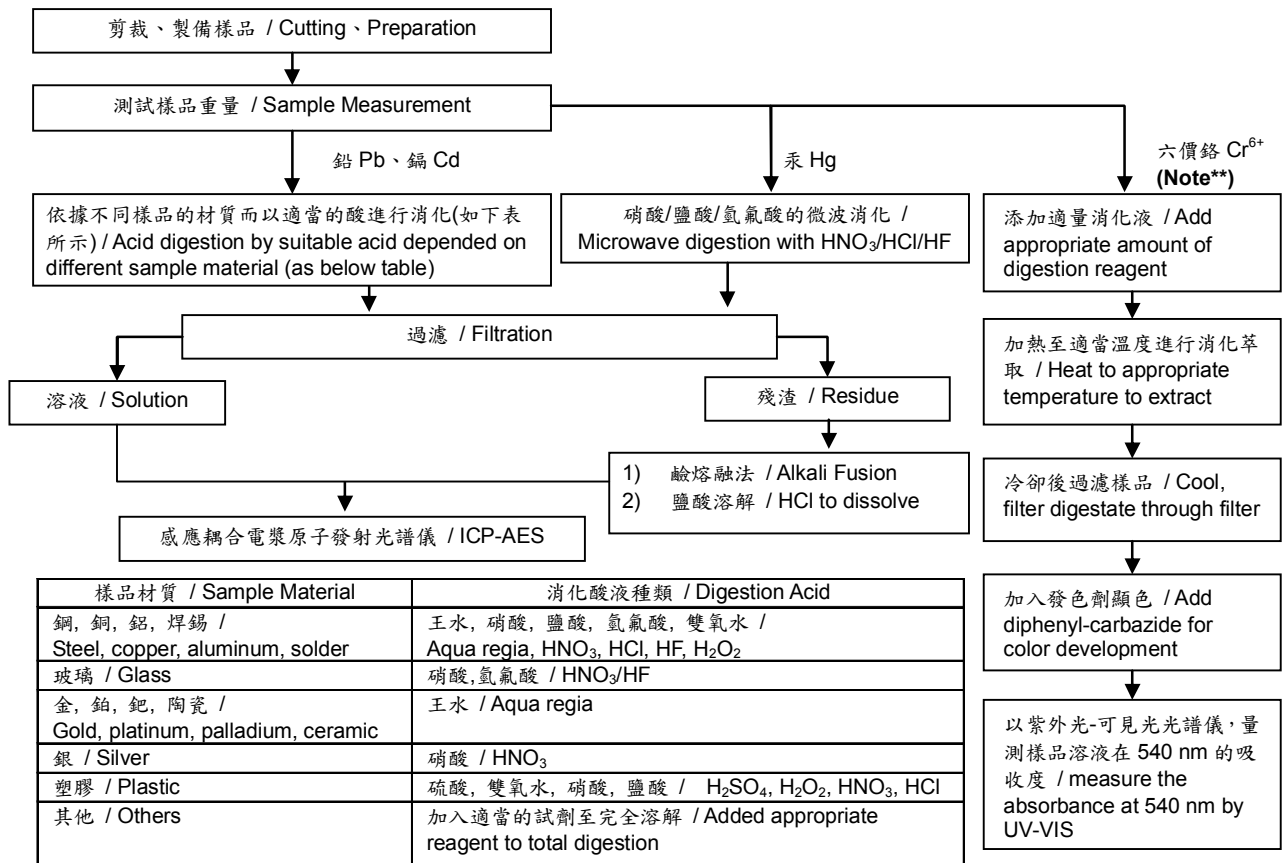


測試部位(PART NAME)No. 2, 3

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：王志瑋 / Technician : JR Wang
- 測試負責人：張啟興 / Supervisor: Troy Chang



Note (For IEC 62321)**

- (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.

測試報告 Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 10 of 17

美麗微半導體股份有限公司

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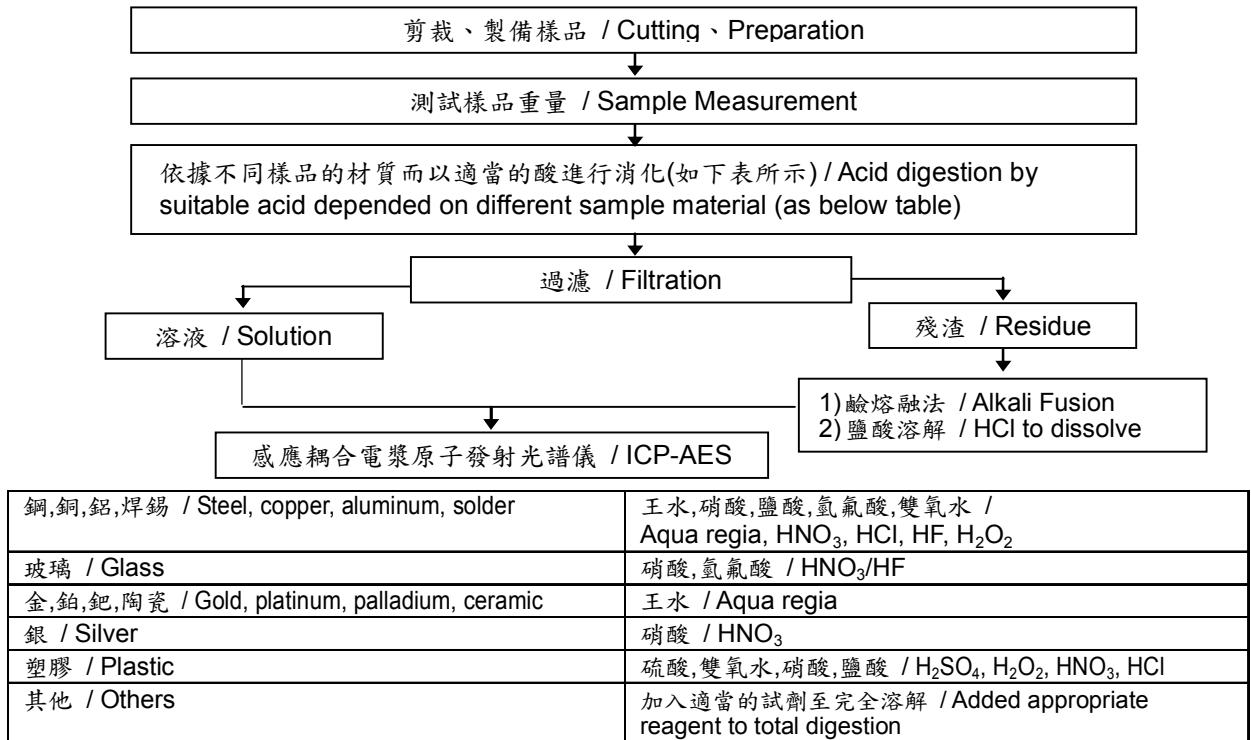
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根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

- 測試人員：王志瑋 / Technician: JR Wang
- 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)



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測試報告

Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 11 of 17

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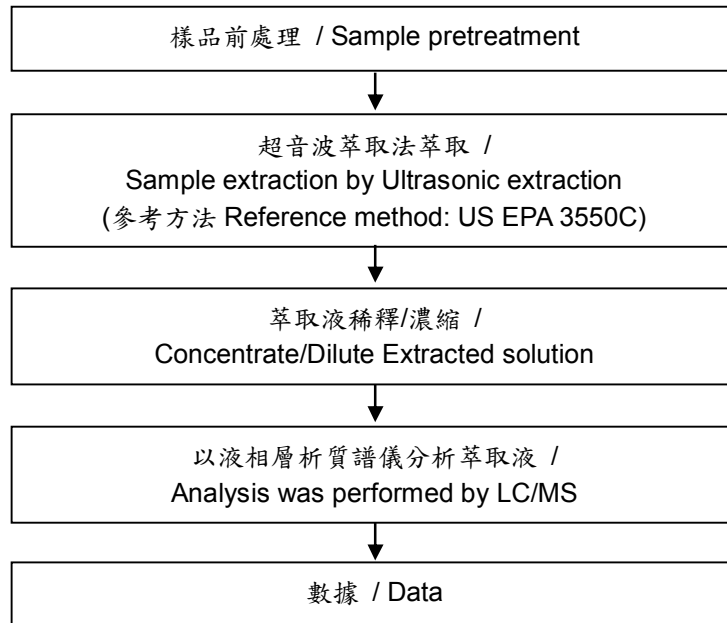
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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

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



測試報告 Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 12 of 17

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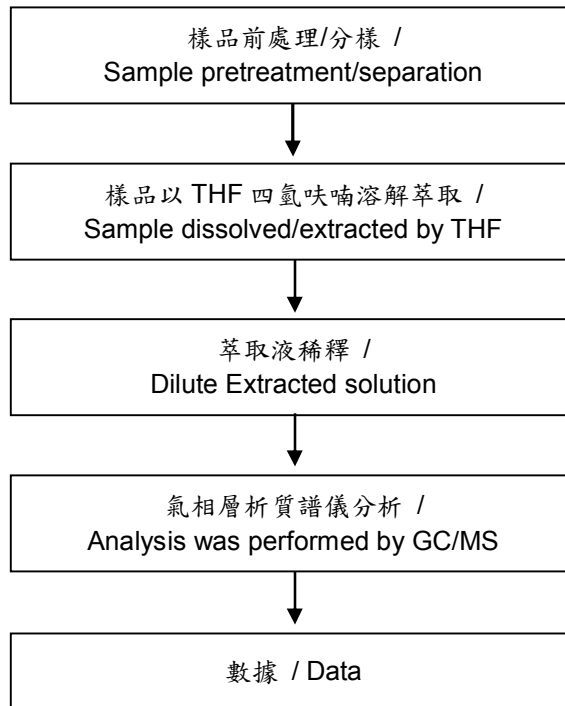
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：徐毓明 / Technician: Andy Shu
- 測試負責人：張啟興 / Supervisor nt: Troy Chang

【測試方法/Test method: IEC 62321-8】



測試報告 Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 13 of 17

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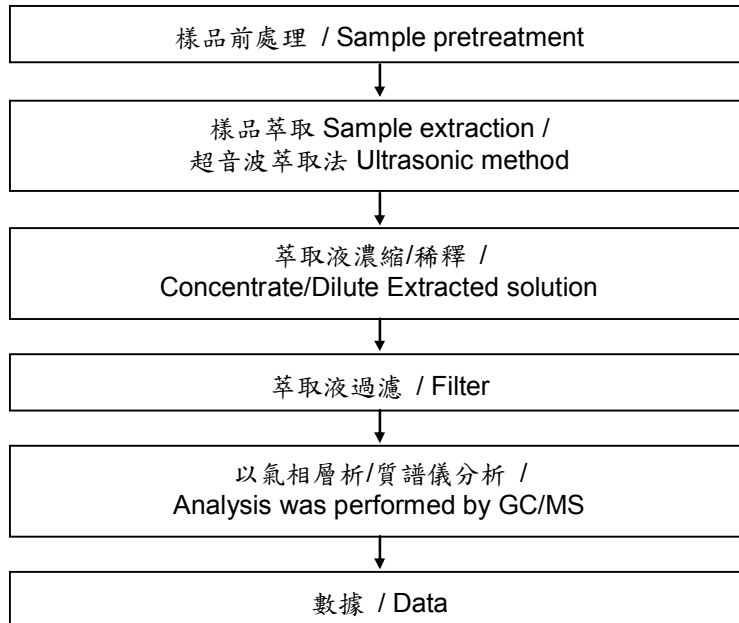
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

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



測試報告 Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 14 of 17

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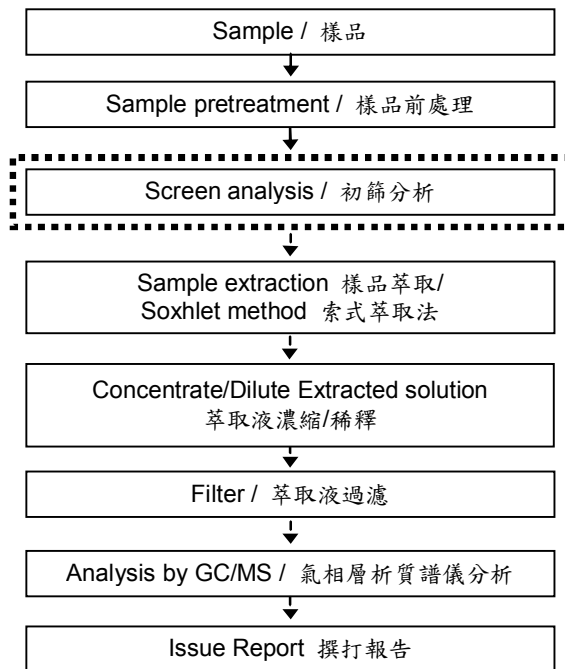
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 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 - - - ->



測試報告 Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 15 of 17

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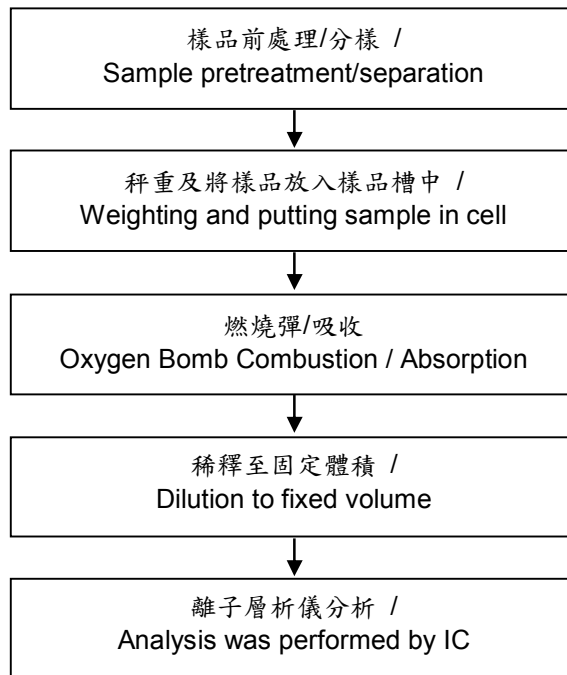
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鹵素分析流程圖 / Analytical flow chart - Halogen

- 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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測試報告

Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 16 of 17

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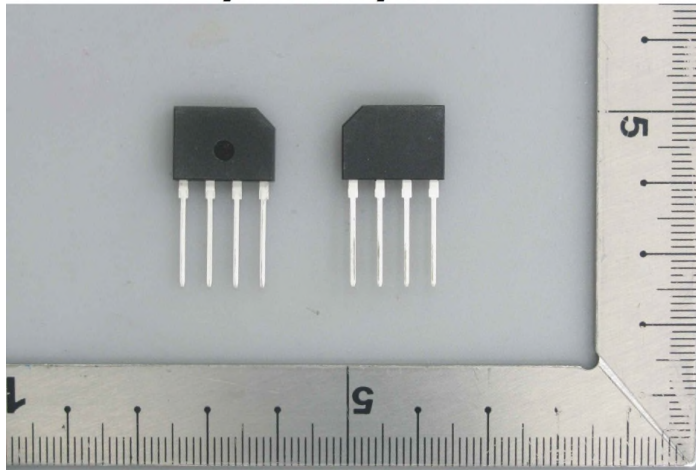
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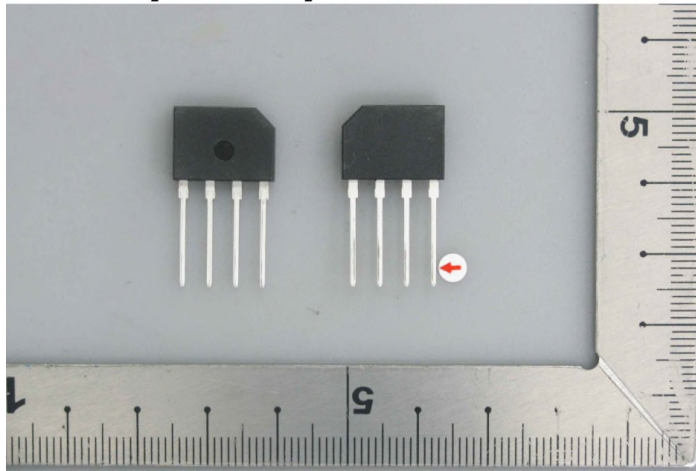


* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。
 (The tested sample / part is marked by an arrow if it's shown on the photo.)

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測試報告

Test Report

號碼(No.) : CE/2016/56431

日期(Date) : 2016/06/06

頁數(Page): 17 of 17

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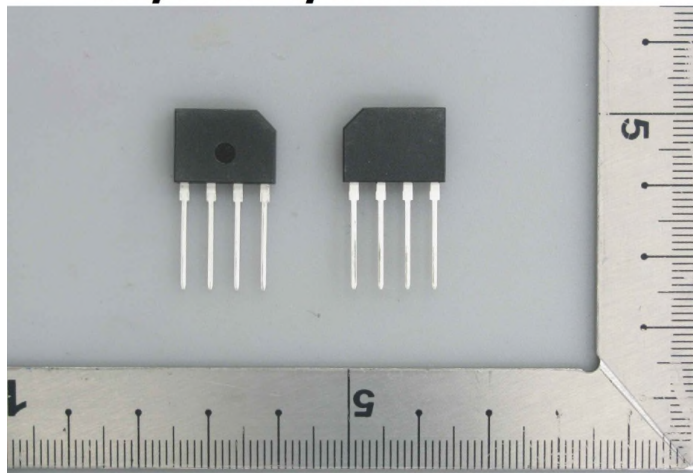
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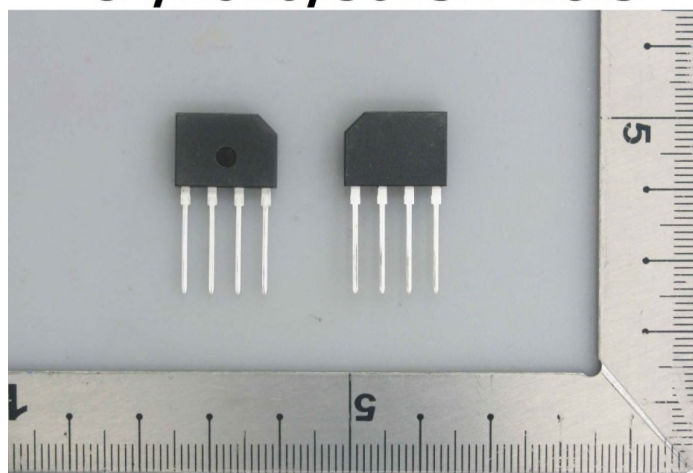
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