

測試報告

Test Report

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台灣化學纖維股份有限公司

FORMOSA CHEMICALS & FIBRE CORPORATION

台北市敦化北路201號


201, TUNG HWA N. ROAD, TAIPEI, 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) : 台灣化學纖維股份有限公司 (FORMOSA CHEMICALS & FIBRE CORPORATION)
樣品名稱(Sample Description) : POLYSTYRENE (聚苯乙烯樹脂)
樣品型號(Style/Item No.) : TAIRIREX GP5000, GP525N, GP5250, GP5350, GP535A, GP550N, GP5500, MP6500, HP8250, HP9450
收件日期(Sample Receiving Date) : 2015/04/10
測試期間(Testing Period) : 2015/04/10 TO 2015/04/17

=====
測試需求(Test Requested) : 依據客戶要求, 參考 RoHS 指令 2011/65/EU Annex II 測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚。(As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)
測試方法(Test Method) : 請見下一頁 (Please refer to next pages).
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).
結論(Conclusion) : 根據客戶所提供的樣品, 其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚的測試結果符合 RoHS 指令 2011/65/EU Annex II 之限值要求 (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II.)



Troy Chang, Manager - Tech
Signed for and on 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 : 透明塑膠粒 (GP5000) (TRANSPARENT PLASTIC PELLETS)
- 測試部位(PART NAME)No.2 : 透明塑膠粒 (GP525N) (TRANSPARENT PLASTIC PELLETS)
- 測試部位(PART NAME)No.3 : 透明塑膠粒 (GP5250) (TRANSPARENT PLASTIC PELLETS)
- 測試部位(PART NAME)No.4 : 透明塑膠粒 (GP5350) (TRANSPARENT PLASTIC PELLETS)
- 測試部位(PART NAME)No.5 : 透明塑膠粒 (GP535A) (TRANSPARENT PLASTIC PELLETS)
- 測試部位(PART NAME)No.6 : 透明塑膠粒 (GP550N) (TRANSPARENT PLASTIC PELLETS)
- 測試部位(PART NAME)No.7 : 透明塑膠粒 (GP5500) (TRANSPARENT PLASTIC PELLETS)
- 測試部位(PART NAME)No.8 : 白色塑膠粒 (MP6500) (WHITE PLASTIC PELLETS)
- 測試部位(PART NAME)No.9 : 白色塑膠粒 (HP8250) (WHITE PLASTIC PELLETS)
- 測試部位(PART NAME)No.10 : 白色塑膠粒 (HP9450) (WHITE PLASTIC PELLETS)

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)			限值 (Limit)
				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.	100
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.	1000
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.	1000

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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)			限值 (Limit)
				No.1	No.2	No.3	
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以 UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.	1000
多溴聯苯總和 / Sum of PBBs	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 and performed by GC/MS.	-	n.d.	n.d.	n.d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.	n.d.	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg	5	n.d.	n.d.	n.d.	-	
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg	5	n.d.	n.d.	n.d.	-	

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台北市敦化北路201號

201, TUNG HWA N. ROAD, TAIPEI, 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 (MDL)	結果 (Result)			限值 (Limit)
				No.4	No.5	No.6	
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.	100
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.	1000
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.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.	1000
多溴聯苯總和 / Sum of PBBs	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 and performed by GC/MS.	-	n.d.	n.d.	n.d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-

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				No.4	No.5	No.6	
多溴聯苯醚總和 / Sum of PBDEs	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 and performed by GC/MS.	-	n.d.	n.d.	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg	5	n.d.	n.d.	n.d.	-	

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)			限值 (Limit)
				No.7	No.8	No.9	
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.	100
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.	1000

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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)			限值 (Limit)
				No.7	No.8	No.9	
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.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	n.d.	n.d.	1000
多溴聯苯總和 / Sum of PBBs	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 and performed by GC/MS.	-	n.d.	n.d.	n.d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.	n.d.	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg	5	n.d.	n.d.	n.d.	-	
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg	5	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 (MDL)	結果 (Result)	限值 (Limit)
				No.10	
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.	100
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.	1000
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.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
多溴聯苯總和 / Sum of PBBs	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 and performed by GC/MS.	-	n.d.	1000
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.	-

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FORMOSA CHEMICALS & FIBRE CORPORATION

台北市敦化北路201號

201, TUNG HWA N. ROAD, TAIPEI, 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 (MDL)	結果 (Result)	限值 (Limit)
				No.10	
多溴聯苯醚總和 / Sum of PBDEs	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 and performed by GC/MS.	-	n.d.	1000
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.	-	

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)

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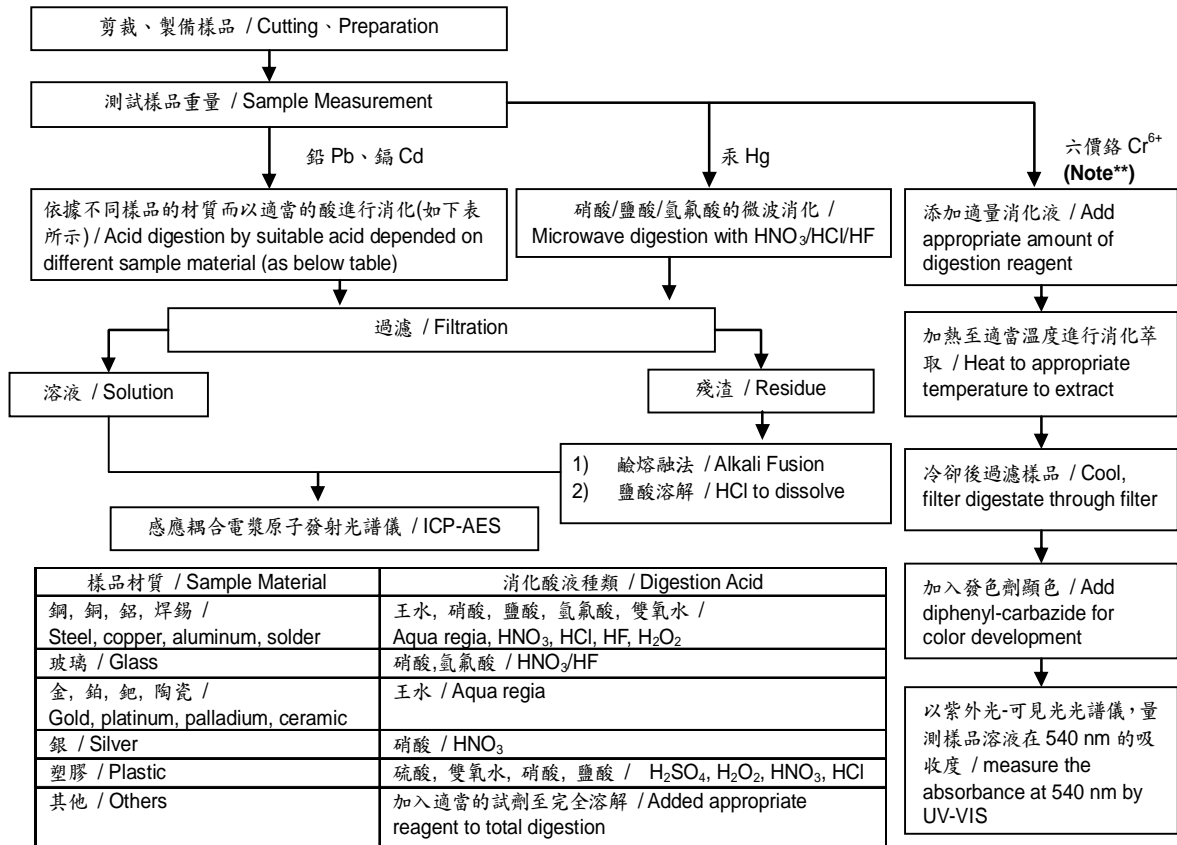
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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.

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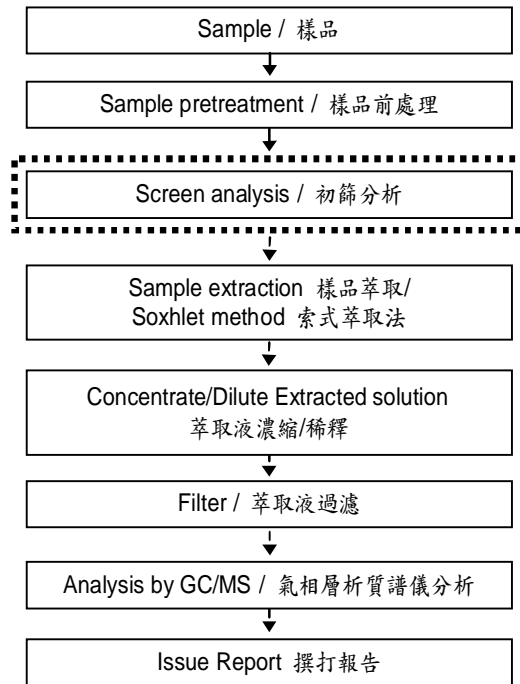
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啓興 / Name of the person in charge of measurement: 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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* 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/2015/41935 NO.1



CE/2015/41935 NO.2



CE/2015/41935 NO.3



CE/2015/41935 NO.4



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CE/2015/41935 NO.9



CE/2015/41935 NO.10



** 報告結尾 (End of Report) **

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