

HF  
ROHS  
COMPLIANT

# 承認書

SPECIFICATION FOR APPROVAL

品名  
PRODUCT NAME K5B RC 10x20x5-MB

客戶料號  
CUSTOMER PART NO. \_\_\_\_\_

批號  
SAMPLE NO. \_\_\_\_\_

日期  
DATE. 2013/08/02

Customer Approved Status 客戶承認範圍

FULLY APPROVED (全部承認)	PARTILLY APPROVED (部份承認)	REVISE APPROVED (修訂承認)
Drawn by	Checked by	Approved by
鍾佩宜	吳明珠	吳炳勳



KING CORE ELECTRONICS INC.

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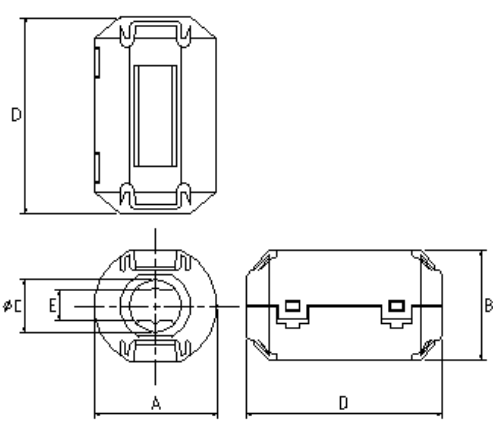
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製作 DRAWN BY: 鍾佩宜	確認 CHECKED BY: 吳明珠	承認 APPROVED BY: 吳炳勳

## 修訂履歷 REVISION RESUME

日期 DATE	版次 VERSION	修訂目的 PURPOSE	修訂內容概述 REVISION DESCRIPTION	備註 REMARK
2013/08/02	A	首次送樣 INITIAL RELEASE		
製作 DRAWN BY: <div style="text-align: center;">鍾佩宜</div>		確認 CHECKED BY: <div style="text-align: center;">吳明珠</div>	承認 APPROVED BY: <div style="text-align: center;">吳炳勳</div>	

# SPECIFICATION FOR APPROVAL

<b>CUSTOMER:</b>	MARITEX	<b>CUST.P/N:</b>	
<b>ORDERING CODE:</b>	K5B RC 10x20x5-MB	<b>K.C.P/N:</b> PK1008IM	
<p>(1) SHAPE</p>  <p>外殼黑色</p>	<b>A</b>	13.0±1.0 mm	
	<b>B</b>	12.0±1.0 mm	
	<b>C</b>	5.00±0.25(CORE內徑) mm	
	<b>D</b>	25.5±1.0 mm	
	<b>E</b>	2.4±0.5 mm	
	<b>F</b>	mm	
	<b>G</b>	mm	
<p>(2) ELECTRICAL REQUIREMENTS:</p> <p><math>Z_1 = 68 \text{ min OHM AT } 25 \text{ MHz}</math></p> <p><math>Z_2 = 117 \text{ min OHM AT } 100 \text{ MHz}</math></p>	<p>(3) TEST CONDITIONS:</p> <p>1 IMPEDANCE ANALYZER: Agilent E4991A</p> <p>TEST FIXTURE: HP16092A</p> <p>2.WIRE: <math>\Phi 0.65</math> 2UEWx100mm x 1/2Ts</p>		
<p>(4) PACKING</p> <p><input type="checkbox"/> IN BULK      <input checked="" type="checkbox"/> VACUUM      <input type="checkbox"/> INSERTION</p> <p>PCS/BAG*      BAGS/INNER BOX:      BOXES/CARTON =      PCS</p> <p>60      PCS/PLATE* 12      PLATES/CARTON= 720      PCS</p> <p>PCS/TRAY*      TRAYS/CARTON=      PCS</p>	<p>(5) APPEARANCE</p> <p>CORE 缺角允收範圍:</p> <p>1.接觸面:1點時,面積1.5mm<sup>2</sup>以下,2點以上時,面積和2mm<sup>2</sup>以下,深度0.8mm以下</p> <p>2.非接觸面:1點時,面積2mm<sup>2</sup>以下,2點以上時,面積和3mm<sup>2</sup>以下,深度1mm以下</p> <p>It is considered as a normal condition that the surface of core covers with ferrite powder.</p>		
<p>(6) REMARK:</p> <p>塑膠殼: PA66 DUPONT BLACK COLOR</p>	Approved by 吳炳勳		
	Checked by 吳明珠		
	Drawn by 鍾佩宜 2013/8/2		
	DWG.NO. 20138008A		

ER011B

# TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER	MARITEX			CUST. P/N		
ORDERING CODE	<b><i>K5B RC 10x20x5-MB</i></b>			K.C. P/N	<b><i>PK1008IM</i></b>	
TEMP.	<b>24 °C</b>	RH	<b>69 %</b>	DWG.NO.	<b>20138008A</b>	
WIRE	<b>0.65x100mm</b> $\phi_{2UEW}$	WINDING	<b>1/2 Ts</b>	Q'TY	<b>5PCS</b>	
Test Instruments						
Meas. Item.	<b>Z (OHM)</b>	<b>Z (OHM)</b>	<b>A mm</b>	<b>B mm</b>	<b>C mm</b>	<b>D mm</b>
Specification	<b>68 min</b>	<b>117 min</b>	<b>13.0±1.0</b>	<b>12.0±1.0</b>	<b>5.00±0.25</b>	<b>25.5±1.0</b>
Test Freq.	<b>25 MHz</b>	<b>100 MHz</b>				
sample#1	<b>88</b>	<b>146</b>	<b>13.04</b>	<b>11.88</b>	<b>5.11</b>	<b>25.41</b>
sample#2	<b>84</b>	<b>144</b>	<b>13.09</b>	<b>11.83</b>	<b>5.16</b>	<b>25.44</b>
sample#3	<b>90</b>	<b>141</b>	<b>13.00</b>	<b>11.82</b>	<b>5.13</b>	<b>25.42</b>
sample#4	<b>91</b>	<b>141</b>	<b>13.01</b>	<b>11.77</b>	<b>5.13</b>	<b>25.46</b>
sample#5	<b>88</b>	<b>141</b>	<b>13.07</b>	<b>11.82</b>	<b>5.14</b>	<b>25.46</b>
sample#6						
sample#7						
sample#8						
sample#9						
sample#10						
$\bar{X}$	<b>88.2</b>	<b>142.6</b>	<b>13.042</b>	<b>11.824</b>	<b>5.134</b>	<b>25.438</b>
R	<b>7</b>	<b>5</b>	<b>0.09</b>	<b>0.11</b>	<b>0.05</b>	<b>0.05</b>
REMARK:					Approved by: <span style="float: right;">吳炳勳</span>	
					Checked by: <span style="float: right;">吳明珠</span>	
					Drawn by: <span style="float: right;">鍾佩宜</span>	

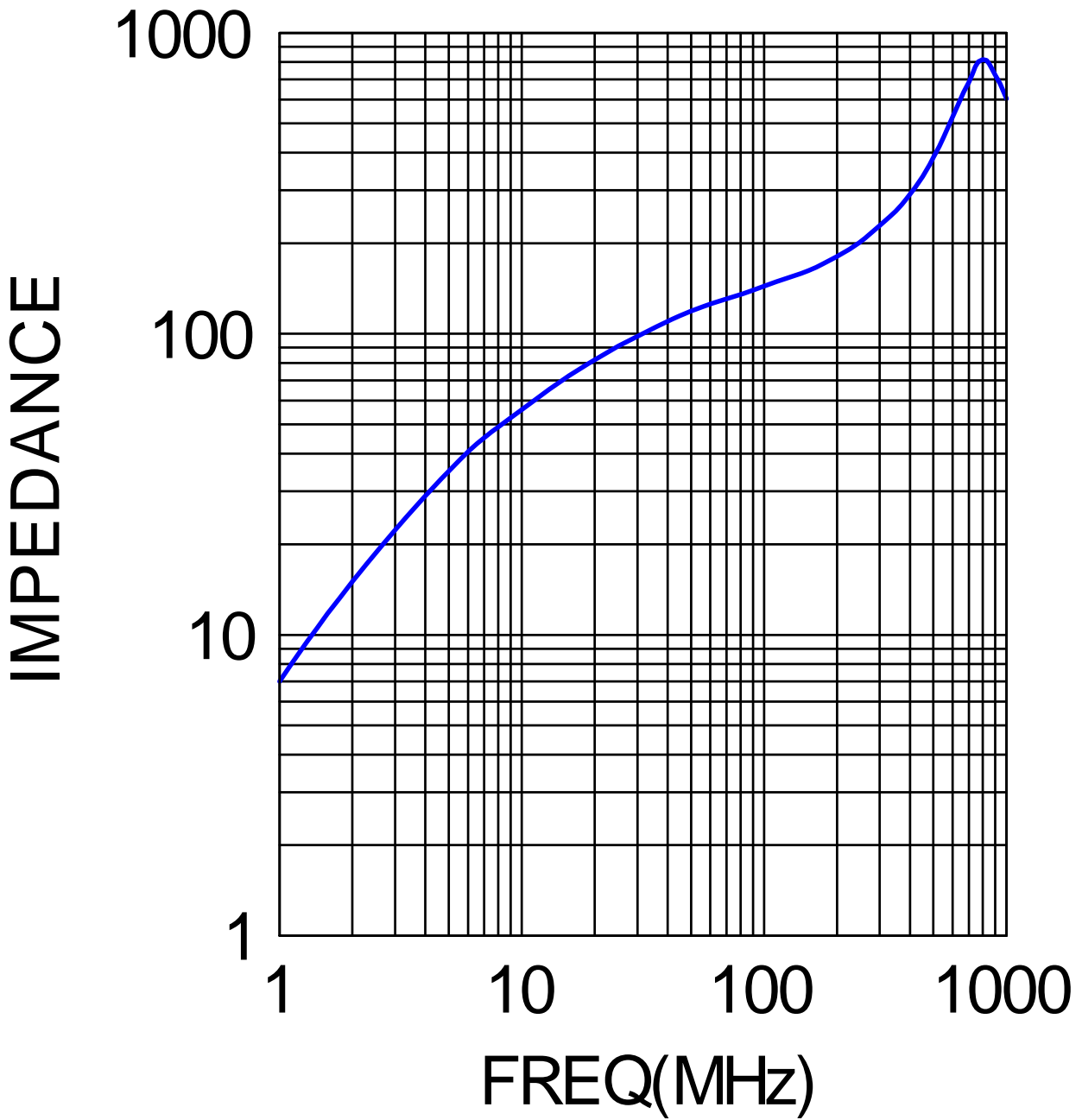
**KING CORE ELECTRONICS INC.**

# TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER	MARITEX			CUST. P/N		
ORDERING CODE	<b><i>K5B RC 10x20x5-MB</i></b>			K.C. P/N	<b><i>PK1008IM</i></b>	
TEMP.	<b>24 °C</b>	RH	<b>69 %</b>	DWG.NO.	<b>20138008A</b>	
WIRE	<b>0.65x100mm</b> $\phi_{2UEW}$	WINDING	<b>1/2 Ts</b>	QTY	<b>5PCS</b>	
Test Instruments						
Meas. Item.	<b><i>E mm</i></b>					
Specification	<b>2.4±0.5</b>					
Test Freq.						
<b>sample#1</b>	<b>2.55</b>					
<b>sample#2</b>	<b>2.46</b>					
<b>sample#3</b>	<b>2.52</b>					
<b>sample#4</b>	<b>2.49</b>					
<b>sample#5</b>	<b>2.46</b>					
<b>sample#6</b>						
<b>sample#7</b>						
<b>sample#8</b>						
<b>sample#9</b>						
<b>sample#10</b>						
$\bar{X}$	<b>2.496</b>					
<b>R</b>	<b>0.09</b>					
REMARK:				Approved by: <span style="font-family: cursive;">吳炳勳</span>		
				Checked by: <span style="font-family: cursive;">吳明珠</span>		
				Drawn by: <span style="font-family: cursive;">鍾佩宜</span>		

***KING CORE ELECTRONICS INC.***

# K5B RC 10x20x5-MB



## 測試報告 Test Report

號碼(No.) : CE/2013/50389

日期(Date) : 2013/05/08

頁數(Page) : 1 of 9

鈞寶電子工業股份有限公司  
KING CORE ELECTRONICS INC.

桃園縣平鎮市平鎮工業區南豐路269號

NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, 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) : 鈞寶電子工業股份有限公司 (KING CORE ELECTRONICS INC.)  
樣品名稱(Sample Description) : FERRITE CORE  
樣品型號(Style/Item No.) : K5B  
收件日期(Sample Receiving Date) : 2013/05/03  
測試期間(Testing Period) : 2013/05/03 TO 2013/05/08

=====  
測試需求(Test Requested) : (1) 依據客戶要求, 參考RoHS 2011/65/EU Annex II 指令進行鎘, 鉛, 汞, 六價鉻, 多溴聯苯, 多溴聯苯醚測試. (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.)  
(2) 依據客戶指定, 進行全氟辛酸(銨)、全氟辛烷磺酸、鹵素-氟、氯、溴、碘測試. (As specified by client, to test PFOA, PFOS, Halogen-Fluorine, Chlorine, Bromine, Iodine 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) : (1) 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2002/95/EC的更新指令2011/65/EU之要求 (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; recasting 2002/95/EC.)



Edison Chang / Sr. Supervisor  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



# 測試報告 Test Report

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## 測試結果(Test Results)

測試部位(PART NAME) No.1 : 鐵灰色塊狀 (IRON-GRAY LUMP)

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)	法規 限值 (Limit)
				No.1	
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法, 以感應耦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.	100
鉛 / Lead (Pb)	mg/kg	參考IEC 62321: 2008方法, 以感應耦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.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321: 2008方法, 以感應耦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.	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
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.	-

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桃園縣平鎮市平鎮工業區南豐路269號

NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, 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)	法規 限值 (Limit)		
				No.1			
<b>多溴聯苯總和 / Sum of PBBs</b>	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			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.	-		
<b>多溴聯苯醚總和 / Sum of PBDEs</b>					-	n.d.	1000
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.	-		
<b>鹵素 / Halogen</b>							
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.	-		

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## 測試報告 Test Report

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鈞寶電子工業股份有限公司  
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### 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)

### 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

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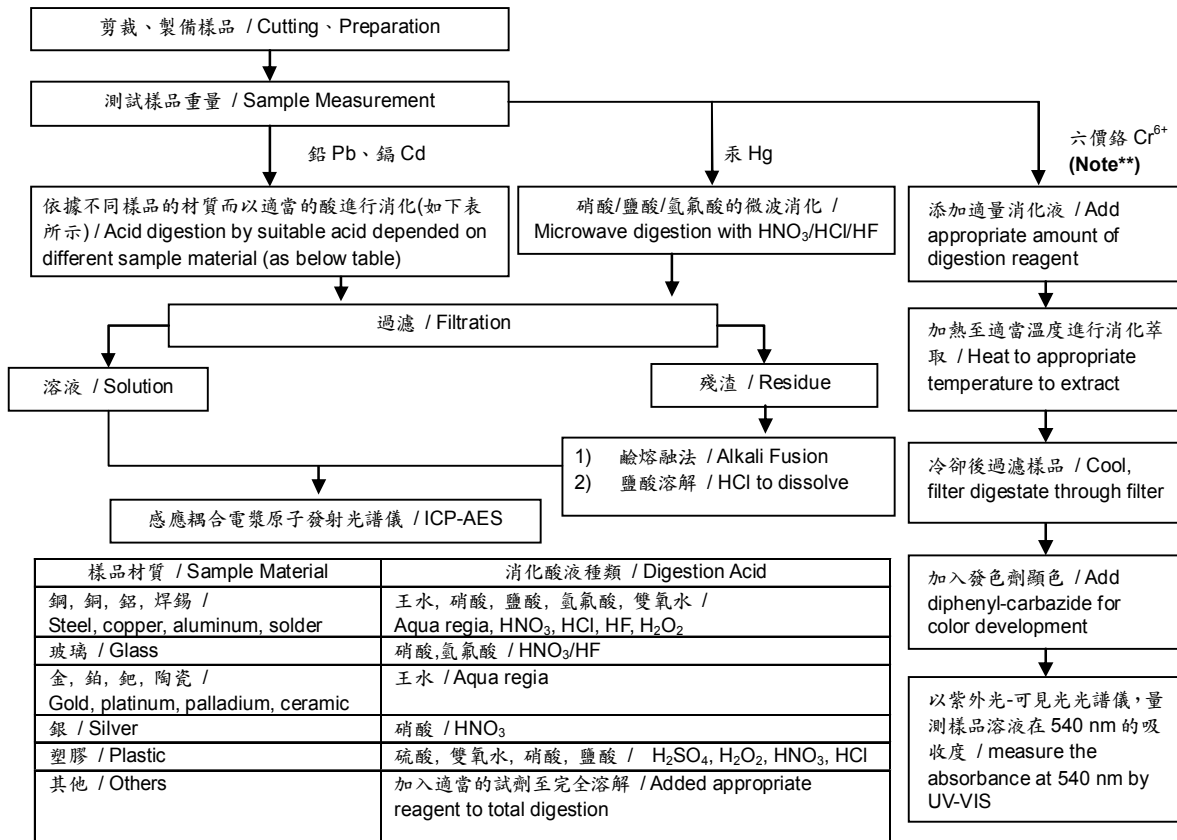
鈞寶電子工業股份有限公司  
KING CORE ELECTRONICS INC.

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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. (Cr<sup>6+</sup> 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\*\*:** (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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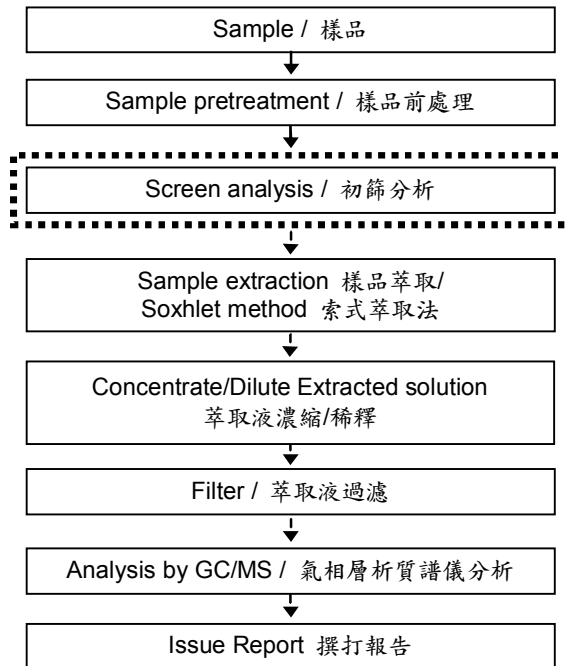
桃園縣平鎮市平鎮工業區南豐路269號

NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, TAIWAN



### 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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號碼(No.) : CE/2013/50389

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頁數(Page) : 7 of 9

鈞寶電子工業股份有限公司  
KING CORE ELECTRONICS INC.

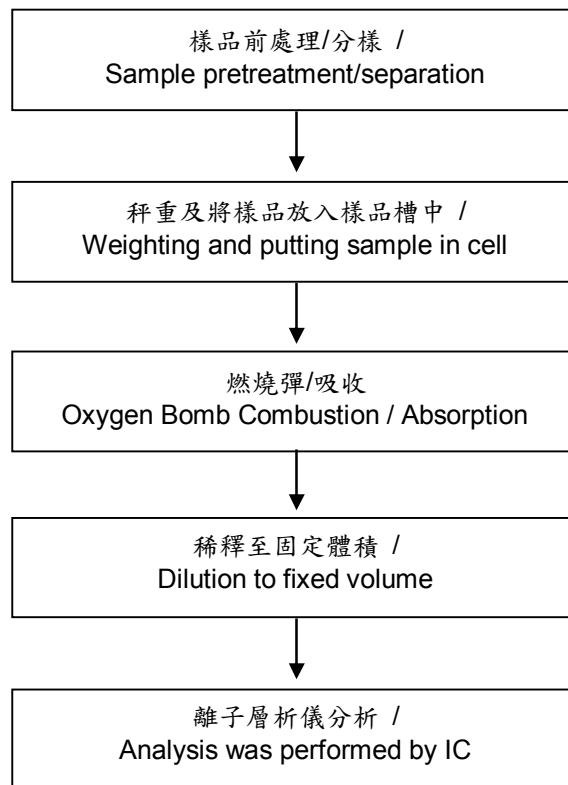
桃園縣平鎮市平鎮工業區南豐路269號

NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, TAIWAN



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

- 測試人員：陳恩臻 / Name of the person who made measurement: Rita Chen
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



## 測試報告 Test Report

號碼(No.) : CE/2013/50389

日期(Date) : 2013/05/08

頁數(Page) : 8 of 9

鈞寶電子工業股份有限公司  
KING CORE ELECTRONICS INC.

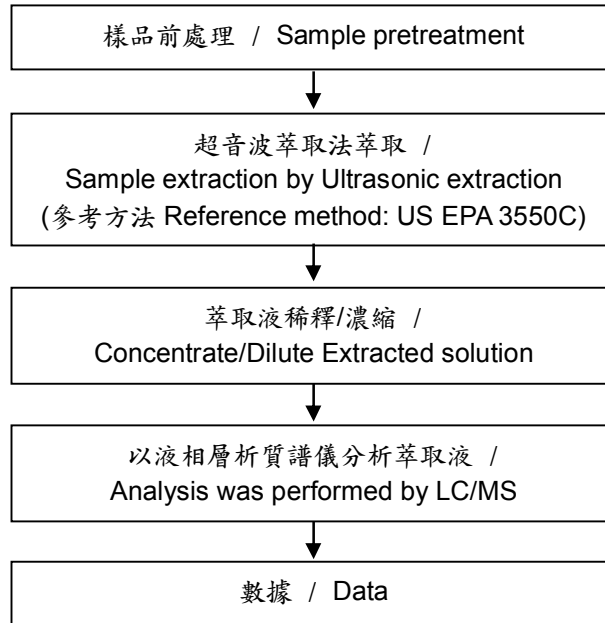
桃園縣平鎮市平鎮工業區南豐路269號

NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, TAIWAN



### 全氟辛酸(銨)/全氟辛酸磺酸分析流程圖 / PFOA/PFOS 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



## 測試報告 Test Report

號碼(No.) : CE/2013/50389

日期(Date) : 2013/05/08

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鈞寶電子工業股份有限公司  
KING CORE ELECTRONICS INC.

桃園縣平鎮市平鎮工業區南豐路269號

NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, TAIWAN



\* 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/2013/50389



\*\* 報告結尾(End of Report) \*\*



## 測試報告

## Test Report

號碼(No.) : CE/2013/20314 日期(Date) : 2013/02/18 頁數(Page) : 1 of 13

和巧股份有限公司

UNIX PLASTICS INC.

桃園縣觀音鄉上大村中觀路1段767號

NO. 767, SEC. 1, ZHONG GUAN RD. NEIGHBORHOOD 13. SHANGDA VIL. GUANYIN TOWNSHIP, TAOYUAN COUNTY  
328, 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) : CASE  
產品型號(Style/Item No.) : 請參考第5~6頁 (PLEASE REFER TO PAGE 5~6)  
其他資料(Other Info.) : PA66 DUPONT 101L BLACK COLOR,101L GRAY COLOR,101L IVORY COLOR,  
101L WHITE COLOR, N66-AS/10-VO(B),TORAY CM3004 BLACK COLOR,  
CM3004 GRAY COLOR,CM3004 WHITE COLOR,HP-740E BLACK,HP-918 WHITE,  
HP-760E BLACK,HP-960E WHITE,POM 500P COLOR (BLACK),PA66-T3004N1-V0,  
PA66 TORAY CM3004-V0 G-0937,PA66 TORAY CM3004-V0 AF-G-1014,  
PA66-T3004(110891),N66 101F BKB009,AMILAN CM3004 V0E C8064,  
NYLON 66-1300S-3J1,PBT-3030,PBT-4815,PA66-AG330  
收件日期(Sample Receiving Date) : 2013/02/04  
測試期間(Testing Period) : 2013/02/04 TO 2013/02/18

=====  
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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## 測試報告

## Test Report

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和巧股份有限公司

UNIX PLASTICS INC.

桃園縣觀音鄉上大村中觀路1段767號

NO. 767, SEC. 1, ZHONG GUAN RD. NEIGHBORHOOD 13. SHANGDA VIL. GUANYIN TOWNSHIP, TAOYUAN COUNTY

328, TAIWAN (R.O.C.)



### 測試結果(Test Results)

測試部位(PART NAME)No.1 : 混測所有顏色塑膠 (MIXED ALL COLORED PLASTIC)

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, 以感應耦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		2	n.d.
汞 / Mercury (Hg)	mg/kg		2	n.d.
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.
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.
六溴環十二烷 / Hexabromocyclododecane (HBCDD) (CAS No.: 25637-99-4)	mg/kg	參考US EPA 3540C方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
鄰苯二甲酸甲苄基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	參考EN 14372, 以氣相層析/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)	%	參考EN 14372, 以氣相層析/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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## 測試報告

## Test Report

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和巧股份有限公司

UNIX PLASTICS INC.

桃園縣觀音鄉上大村中觀路1段767號

NO. 767, SEC. 1, ZHONG GUAN RD. NEIGHBORHOOD 13. SHANGDA VIL. GUANYIN TOWNSHIP, TAOYUAN COUNTY

328, 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)
				No.1
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測之。 / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
<b>多溴聯苯總和 / Sum of PBBs</b>	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.
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.
<b>多溴聯苯醚總和 / Sum of PBDEs</b>	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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## 測試報告

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和巧股份有限公司

UNIX PLASTICS INC.

桃園縣觀音鄉上大村中觀路1段767號

NO. 767, SEC. 1, ZHONG GUAN RD. NEIGHBORHOOD 13. SHANGDA VIL. GUANYIN TOWNSHIP, TAOYUAN COUNTY

328, 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)
				No.1
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	170
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. 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.)

### 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/m<sup>2</sup>。

(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/m<sup>2</sup>.)

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和巧股份有限公司

UNIX PLASTICS INC.

桃園縣觀音鄉上大村中觀路1段767號

NO. 767, SEC. 1, ZHONG GUAN RD. NEIGHBORHOOD 13. SHANGDA VIL. GUANYIN TOWNSHIP, TAOYUAN COUNTY

328, TAIWAN (R.O.C.)



產品型號(Style/Item No.) :

0430,0530(B),0530(G),0530V(B),0530(W),0530(NL),0715(B),  
0730(B),0730(G),0730V(B),0930-1A(B),0930-1A(G),0930-1A(NL),  
0930-1A(W),0930-1AV(G),0930-2(B),0930-2(G),0930-2(NL),  
0930-2A(B),0930-2A(G),1030(B),1130N(B),1130N(G),1130N(NL),1130N(W),1330(B),1330(G),  
1330V(B),1330V(G),1330A(B),1330A(G),1330AV(G),1518(B),1518(G),  
2017,2026(B),3035(B),3035(G),3035V(B),F110,F30(B),F30(G),F30(NL),  
F30(W),F35(B),F35(G),F35(W),F75(B),F75(W),LF100(B),LF100(NL),LF100(W),  
LF1230V(G),LF130(B),LF130(W),LF130(NL),LF190(B),LF190V(B),LF50S(B),  
LF50S(W),LF65(W),LF65(B),LF65A(B),LF65S(B),LF65S(NL),U-27,  
S2001-2C2,MAG163A(B),MAG163A(G),MAG163AV(G),MAG204A(B),MAG204A(NL),MAG204A(G)  
MAG204A(W),MAG204AV(B),LF130V(B),P602.072-003,P602.804-001,P602.804-002,P612.072-001,P602.072-019  
MAG168A(B),MAG168A(G),MAG168AV(B),MAG238AS(B),MAG238S(B),  
MAG250S(B),MAG250SV(B),MAG250S(NL),MAG250S(G),UF-6.5(W),  
LF1613-0930R3,0930-1A-JYH,SR-10(B),SR10-1(B),SR10-2(B),SR-12(G),SR-160(B),SR-160N(B),UF-100ST(B),  
UF-100ST(W),UF-130ST(B),UF-130ST(W),UF-65ST(B),  
UF65ST(W),NC3-001-002,MC2-016-015,MC2-021-025,MC2-021-025(B)  
三星外殼,2026ST,ASSE001(W),GRFC-3(NL),GRFC-4(NL),GRFC-5(NL)  
GRFC-6(NL),GRFC-7(NL),GRFC-8(NL),GRFC-9(NL),GRFC-10(NL),GRFC-13(NL),  
GRFC-3(B),GRFC-4(B),GRFC-5(B),GRFC-6(B),GRFC-7(B),GRFC-8(B),GRFC-9(B),GRFC-10(B),GRFC-13(B)  
VBD-1010-60(B),VBD-1010-60(W),VBD-1410-40(B),VBD-1412-40 BK,VBD-1010-18(W),VBD-1010-40(BK),  
ARFC-4(NL3),ARFC-5(NL3),ARFC-6(NL1),ARFC-8(NL3),ARFC-9(NL1),ARFC-13(NL3)  
P601.804-011,P602.072-004,P602.072-003,P602.804-002,P611.634-001,P612.072-001,P602.634-021,  
ARFC-4V(NL),ARFC-5V(NL),ARFC-6V(NL),ARFC-8V(NL1),ARFC-9V(NL)  
ATFC-16813(NL3),ATFC-16813V(NL),ATFC-16816(NL3),ATFC-16816V(NL4),ATFC-201010(NL3),  
ATFC-201010V(NL),ATFC-231114(NL3),ATFC-231114V(NL4),ATFC-251512(NL3),  
TKN-03,TKN-04,GM9025235-1,GM9025235-2,RSGSL-190E BK

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## 測試報告

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和巧股份有限公司

UNIX PLASTICS INC.

桃園縣觀音鄉上大村中觀路1段767號

NO. 767, SEC. 1, ZHONG GUAN RD. NEIGHBORHOOD 13. SHANGDA VIL. GUANYIN TOWNSHIP, TAOYUAN COUNTY  
328, TAIWAN (R.O.C.)



ZCAT1325-0530BK,ZCAT3035-1330BK,ZCAT2035-0930BK,ZCAT2132-1130BK,  
ZCAT2032-0930BK,ZCAT1518-0730BK,ZCAT1518NL-SW(BK),  
ZCAT1730-0730BK,ZCAT1730NL-SW(BK),ZCAT2017-0930BK,ZCAT2035NL-SE(BK),  
ZCAT2436-1330BK,CASE ZCAT 1325A-JW-SNBK,CASE ZCAT2035-JW-SNBK,  
CASE ZCAT 1325E- BK,CASE ZCAT2035-JW BK,ZCAT3035-1330GY,ZCAT3035NL-SW(GY),  
ZCAT2035-0930GY,ZCAT2035NL-SW(GY),ZCAT2132-1130GY,ZCAT2132BNL-SW(GY),  
ZCAT2436-1330GY,ZCAT2436-SW(GY),ZCAT2032-0930GY,ZCAT2032NL-SW(GY),  
ZCAT2017-0930GY,ZCAT2017NL-SW(GY),ZCAT1730-0730GY,ZCAT1730NL-SW(GY),  
ZCAT-0730GY,ZCAT1325-0530GY,CASE ZCAT 1325A-JW-VT,ZCAT1518-SW-GY,  
ZCAT1325-SW GY,ZCAT2032-0930 BK,ZCAT1325NL-SW BK,ZCAT1518-0730 GY  
CASE ZCAT10FR2,CASE 3035D-SWA-GY,ZCAT2235-1030A GY,ZCAT 4625-3430D GY,ZCAT 4625-3430D BK,  
ZCAT 3618-2630D-GY,ZCAT 3618-2630D-BK,ZCAT 13D GY,ZCAT 13D BK,ZCAT 20D GY,ZCAT 20D BK,  
ZCAT 2235-1030A GY,ZCAT 2235-1030A BK,P631.804-002,P631.804-001,P602.072-015,P602.072-016

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和巧股份有限公司

UNIX PLASTICS INC.

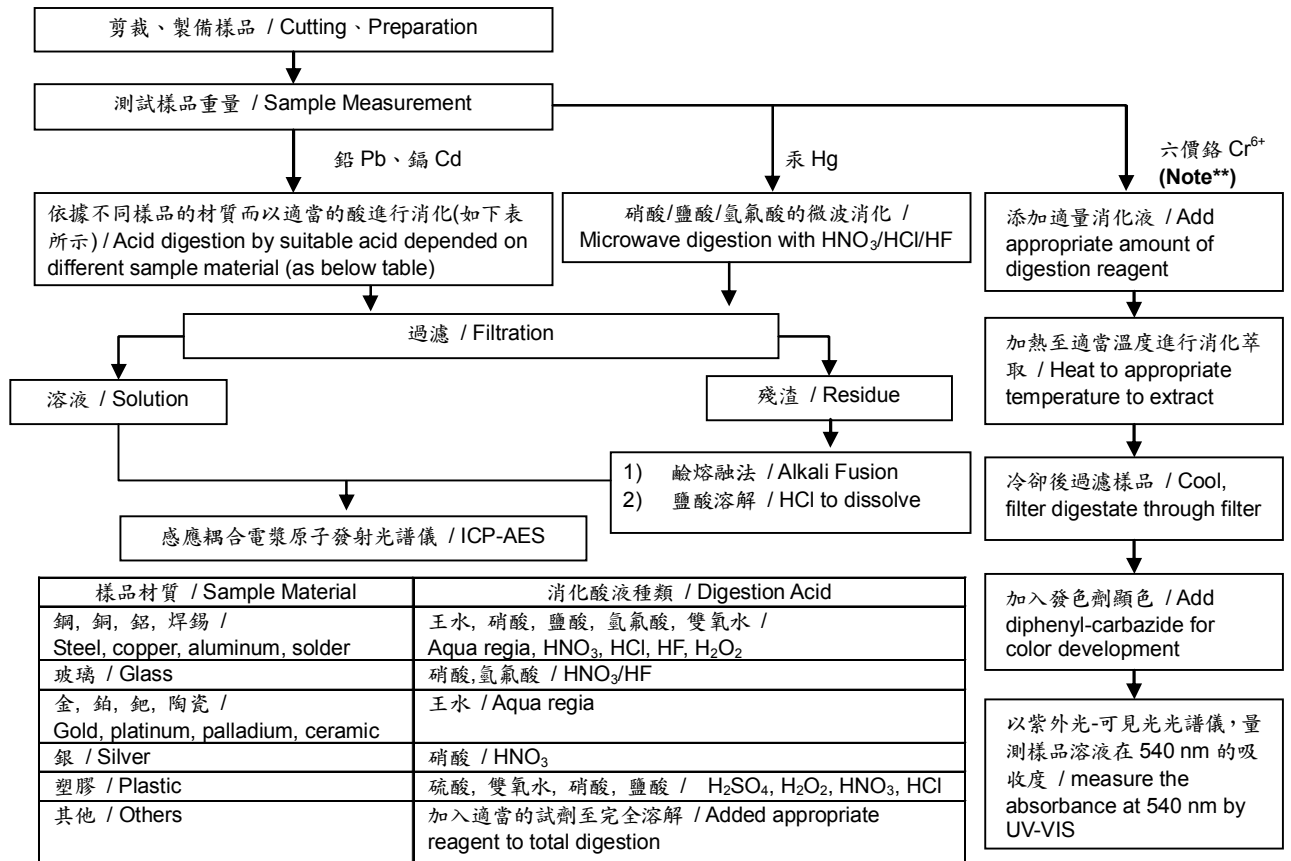
桃園縣觀音鄉上大村中觀路1段767號

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328, TAIWAN (R.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. (Cr<sup>6+</sup> 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\*\* :** (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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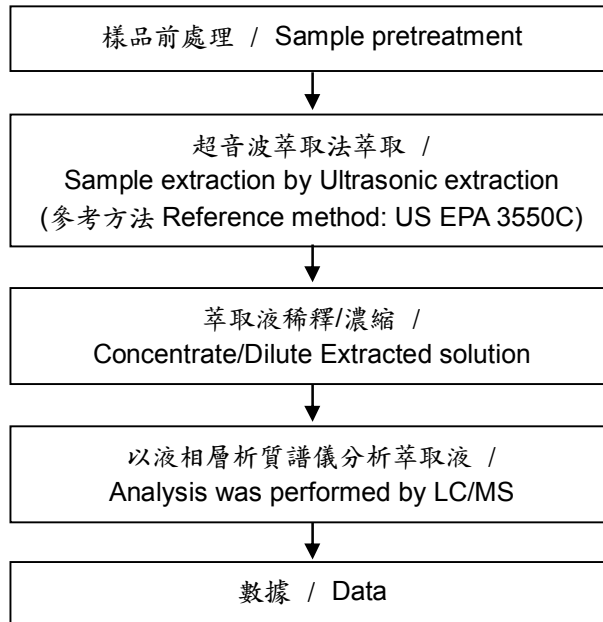
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### 全氟辛酸(銨)/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 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



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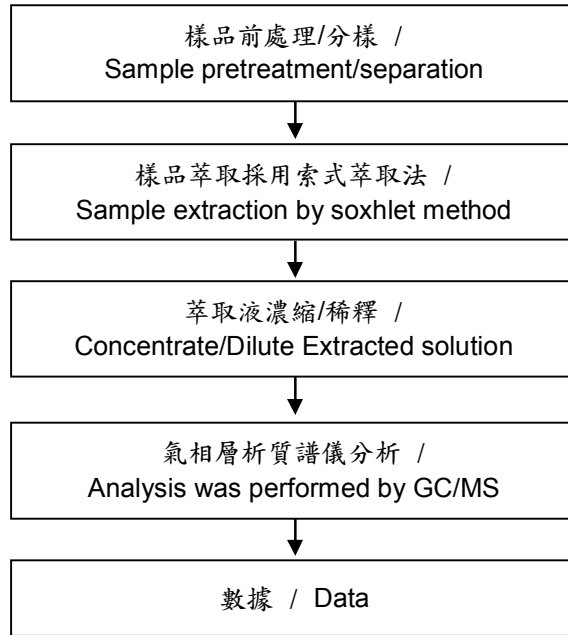
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### 六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 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



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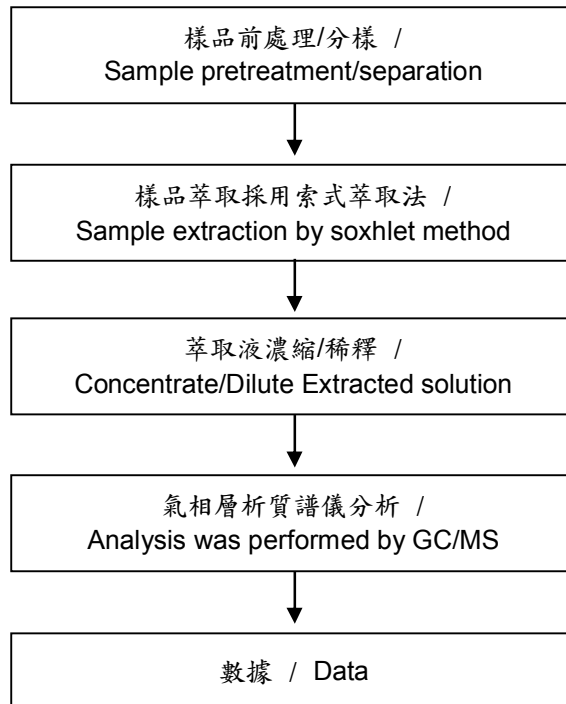
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### 可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 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



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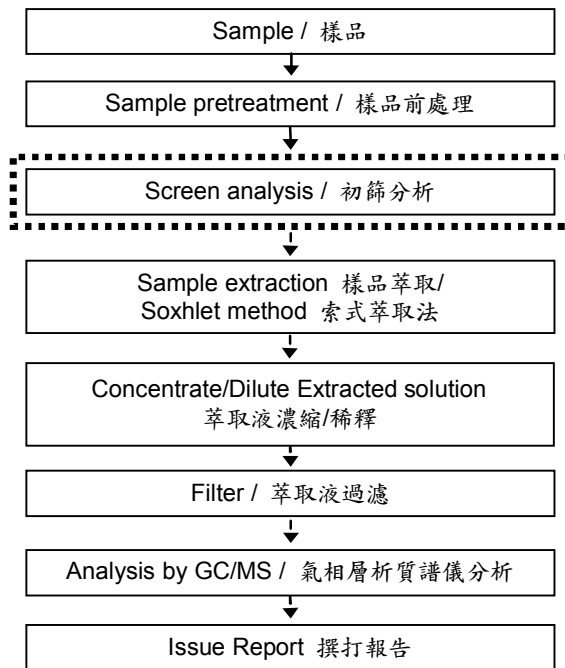
### 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

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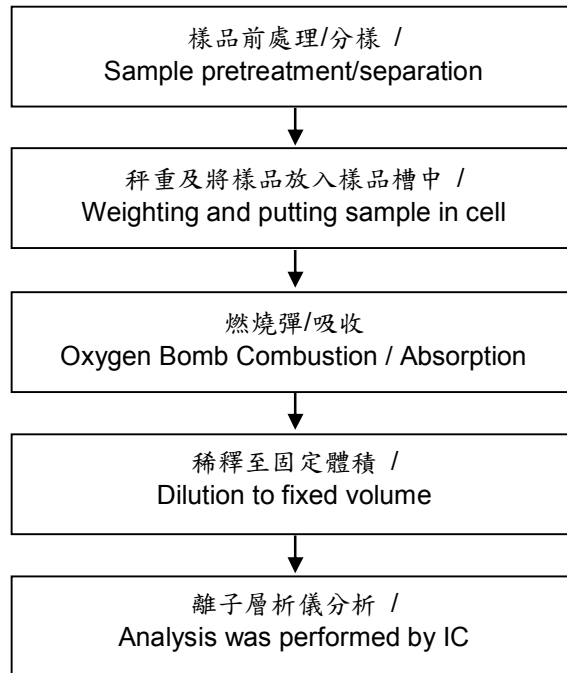
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### 鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員：陳恩臻 / Name of the person who made measurement: Rita Chen
- 2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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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/2013/20314



SGSE13201930103

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