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鴻山電子股份有限公司 HOSUNLINK ELECTRON CO., LTD. 台北縣三重市重陽路三段192之4號8樓 8F, NO. 192-4, SEC. 3, CHONGYANG RD., SANCHONG CITY, TAIPEI COUNTY 241, TAIWAN (R. O. C.)

以下測試樣品係由客户送樣, 且由客户聲稱並經客户確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

 樣品名稱(Sample Description)
 : CRYSTAL SMD (EPOXY TYPE)

 樣品型號(Style/Item No.)
 : H-5322 / H-5342

 收件日期(Sample Receiving Date)
 : 2008/07/17

 測試期間(Testing Period)
 : 2008/07/17 TO 2008/07/24

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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<u>測試結果(Test Results)</u>

測試部位(PART NAME) NO.1 : CRYSTAL SMD

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方 法,用感應藕合電漿原子發射光譜儀 (ICP-AES) 檢測鎬含量./With reference to IEC 62321/2nd CDV (111/95/CDV).Determination of Cadmium by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方 法,用感應藕合電漿原子發射光譜儀 (ICP-AES) 檢測鉛含量./With reference to IEC 62321/2nd CDV (111/95/CDV).Determination of Lead by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV)方 法,用感應藕合電漿原子發射光譜儀 (ICP-AES) 檢測汞含量./With reference to IEC 62321/2nd CDV (111/95/CDV).Determination of Mercury by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	針對非金屬材質之樣品,參考IEC 62321/2nd CDV (111/95/CDV) 方法檢測, 用UV-VIS檢測六價鉻含量./With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non-metallic samples by UV-Vis Spectrometry.	2	n.d.

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測試報告 Test Report

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台北縣三重市重陽路三段192之4號8樓

8F, NO. 192-4, SEC. 3, CHONGYANG RD., SANCHONG CITY, TAIPEI COUNTY 241, TAIWAN (R. O. C.)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
多溴聯苯總和 / Sum of PBBs		參考IEC 62321/2nd CDV (111/95/CDV)方 法,以氣相層析儀/質譜儀檢測多溴聯苯 和多溴聯苯醚含量./With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE 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	mg/kg		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.

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 No. 33
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 台灣檢驗科技股份有限公司
 t (886-2) 2299-3939
 f(886-2) 2299-3237
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8F, NO. 192-4, SEC. 3, CHONGYANG RD., SANCHONG CITY, TAIPEI COUNTY 241, TAIWAN (R. O. C.)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鹵素 / Halogen		參考BS EN 14582:2007, 以離子層析儀分 析氟,氯,溴,碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for F, Cl, Br, I content.		
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分 析氟含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	n.d.
鹵素(氯)/ Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分 析氯含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分 析溴含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分 析碘含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.	50	n.d.

備註(Note):

- 1. mg/kg = ppm
- 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)

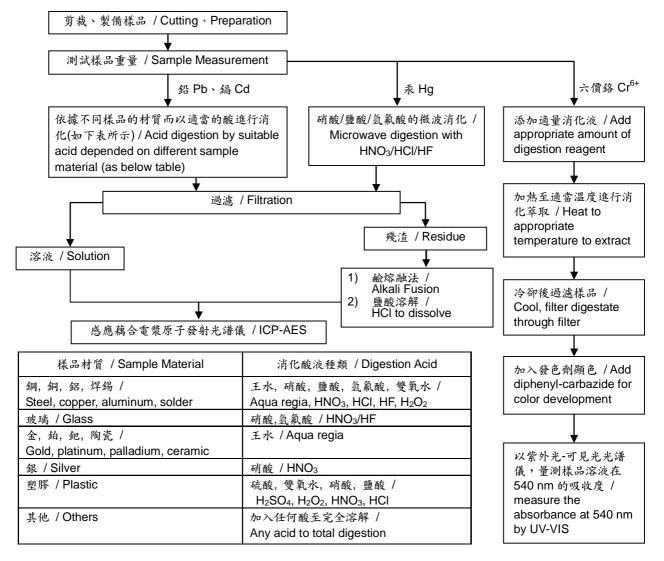
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8F, NO. 192-4, SEC. 3, CHONGYANG RD., SANCHONG CITY, TAIPEI COUNTY 241, TAIWAN (R. O. C.)

- 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. (Cr⁶⁺ test method excluded)
- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 测試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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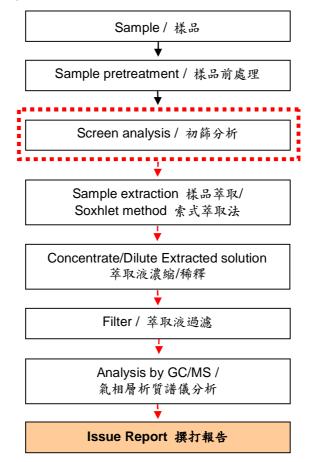
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 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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 f (886-2) 2299-3237
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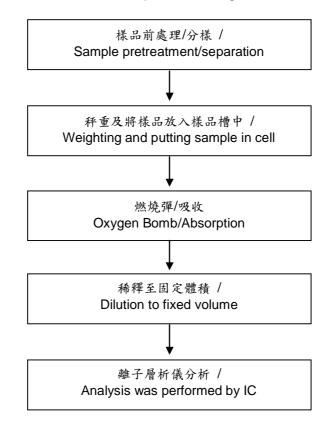


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鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員:藍雅婷 / Name of the person who made measurement: Tin Lan
- 2) 测試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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 台灣檢驗科技股份有限公司
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** 報告結尾 **

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