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潟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):

様品名稱(Sample Description)
: CRYSTAL / OSCILLATOR (SMD CERAMIC PACKAGE)
: H-22 / H-32 / H-42 / H-53 / H-63 / H-75 / H-84 (2.5\*2.0 / 3.2\*2.5 / 4.2\*2.5 / 5.2\*3.2 / 6.2\*3.7 / 7.2\*5.2 / 8.2\*4.7)
收件日期(Sample Receiving Date)
: 2008/04/30
: 2008/04/30 TO 2008/05/08

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 / OSCILLATOR (SMD CERAMIC PACKAGE)

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-	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-	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-	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			5	n.d.
多溴聯苯醚總和(一至九溴)/ Sum of	mg/kg		-	n.d.
PBDEs (Mono to Nona) (Note 4)				
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.
多溴聯苯醚總和(一至十溴)/ Sum of PBDEs (Mono to Deca)			-	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鹵素 / Halogen		參考BS EN 14582:2007, 以離子層析 儀分析氣, 氣, 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.: 007782-41-4)	mg/kg	參考BS EN 14582:2007, 以離子層析 儀分析氣含量. / 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.: 007782-50-5)	mg/kg	參考BS EN 14582:2007, 以離子層析 儀分析氣含量. / 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.: 007726-95-6)	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.: 007553-56-2)	mg/kg	参考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. 根據2005年10月13日歐盟會議公佈2005/717/EC,修訂2002/95/EC内容,通過解除高分子材質 中十溴聯苯醚之使用限制. (According to 2005/717/EC DecaBDE is exempt.)
- 5. "-" = Not Regulated (無規格値)
- 6. "---" = Not Conducted (未測項目)



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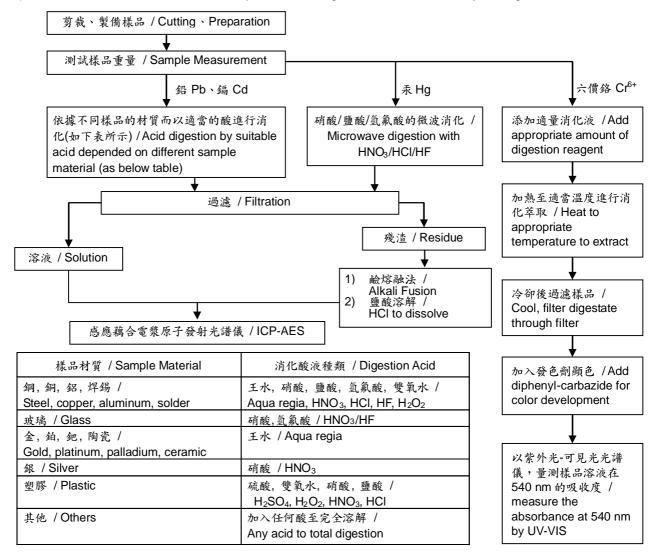
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- 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 2) 测試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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

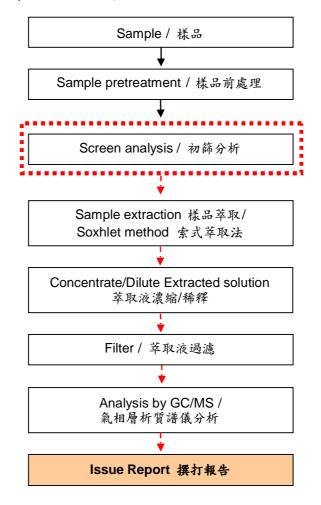
1) 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong

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 \_ - - - ▶



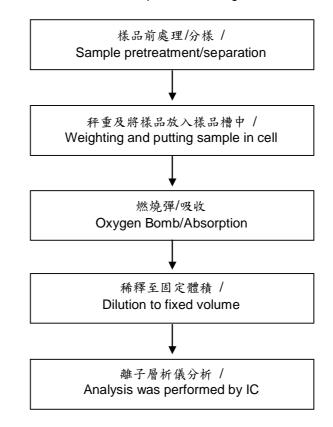


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#### 鹵素分析流程圖 / Analytical flow chart of halogen content

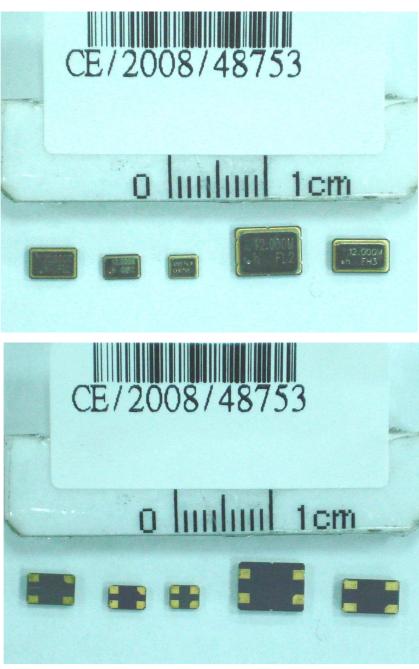
- 1) 測試人員:藍雅婷 / Name of the person who made measurement: Tin Lan
- 2) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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\*\* 報告結尾 \*\*