

號碼(No.): KA/2011/80342 日期(Date): 2011/08/10 頁數(Page): 1 of 6

日維電子股份有限公司

ZEALWAY ELECTRONICS CO., LTD.

高雄市前鎮區新衙路286-1號3樓之2

3F-2, NO.286-1, SHIN YA RD., CHYAN JENN DIST, KAOHSIUNG, 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) : 金屬氧化膜固定電阻器 (METAL OXIDE FILM RESISTORS)

收件日期(Sample Receiving Date) : 2011/08/04

測試期間(Testing Period) : 2011/08/04 TO 2011/08/09

送樣廠商(Sample Submitted By) : 日維電子股份有限公司 (ZEALWAY ELECTRONICS CO., LTD.)

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參照RoHS 2011/65/EU Annex II 指令要求. (In accordance with the RoHS 測試需求(Test Requested):

Directive 2011/65/EU Annex II).

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

Ray Chang / Asst. Manage Signed for and on behalf of

**SGS Taiwan Limited** 

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日維電子股份有限公司 ZEALWAY ELECTRONICS CO., LTD. 高雄市前鎮區新衙路286-1號3樓之2 3F-2, NO.286-1, SHIN YA RD., CHYAN JENN DIST, KAOHSIUNG, TAIWAN, R.O.C.

### 測試結果(Test Results)

測試部位(PART NAME)No.1 : 整體混測:金屬氧化膜固定電阻器 (MIXED ALL PARTS: METAL OXIDE FILM RESISTORS)

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	参考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	参考IEC 62321: 2008方法,以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	参考IEC 62321: 2008方法,以氣相層析儀/ 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.

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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
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321: 2008方法,以氣相層析儀/ 質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	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.

### 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别單一材質的含量. (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.)

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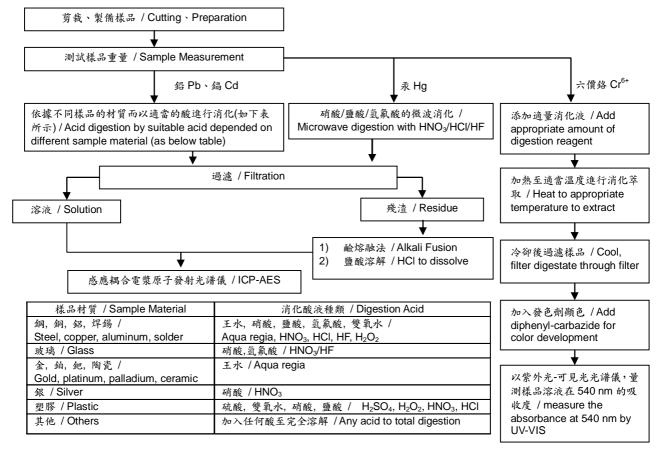
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。( 六價鉻測試方法除外 ) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (  $\text{Cr}^{6+}$  test method excluded )
- 測試人員:張俊雄 / Name of the person who made measurement: Alex Chang
- 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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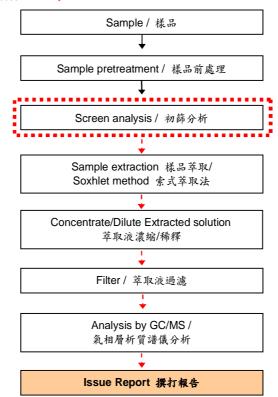
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### 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員: 曹嘉琪 / Name of the person who made measurement: Anson Tsao
- 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray 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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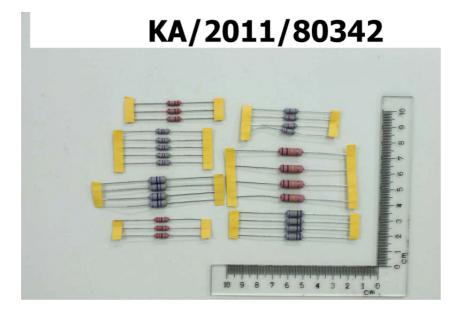
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\*\* 報告結尾 (End of Report) \*\*

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