

測試報告

Test Report

號碼(No.) : CE/2007/A2857 日期(Date) : 2007/10/22 頁數(Page) : 1 of 15




億光電子工業股份有限公司
 EVERLIGHT ELECTRONICS CO., LTD.
 台北縣土城市中央路三段76巷25號
 NO. 25, LANE 76, SEC. 3, CHUNG YANG ROAD, TUCHENG, TAIPEI, 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):

BASIC INFORMATION	
Type of Product	PHOTO LINK
Supplier Company Name	EVERLIGHT
Address	NO. 25, LANE 76, SEC. 3, CHUNG YANG ROAD, TUCHENG, TAIWAN, R. O. C.
Tel/Fax/Email	TEL:886-2-267-2000 EXT:1203
	FAX:886-2-267-9948
	E-MAIL: andyliu@everlight.com
Contact Person	LIU CHUN HSIANG
EVERLIGHT REPORT NO	EVERLIGHT-PLT/R X5X SERIES -SGS-22-10-2007
PRODUCT INFORMATION	
Product/component Sample description	CD PLAY
Quantity (numbers or weight)	0.1173 g
EVERLIGHT P/N	PLT/R X5X SERIES, (PLT153/S1)
Product Lot No	LOT-53
Country of Origin	TAIWAN
TEST INFORMATION	
Digital Photo(s) of sample(s) after being prepared	JPG EMBEDDED IN EACH REPORT
Sample preparation	CUTTING
Test Method	Cd , Pb , Hg , Cr(VI) , PBB , PBDE - IEC 62321
PQL and/or MDL	Cd, Pb, Hg: < 2 mg/kg; PBB, PBDE: < 5 mg/kg
Name of Analyzer	Troy Chang

收件日期(Sample Receiving Date) : 2007/10/15
 測試期間(Testing Period) : 2007/10/15 TO 2007/10/22

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 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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測試結果(Test Results)

- 測試部位(PART NAME) NO.1 : 本體 (BODY)
 測試部位(PART NAME) NO.2 : 銀色金屬腳鍍層 (PLATING LAYER OF SILVER COLORED METAL PIN)
 測試部位(PART NAME) NO.3 : 銀色金屬腳底材 (BASE MATERIAL OF SILVER COLORED METAL PIN)
 測試部位(PART NAME) NO.4 : 銀色腳金屬 (包含鍍層) (SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER))

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	NO.2	NO.3
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321, Ed. 1 111/54/CDV方法, 用感應耦合電 漿原子發射光譜儀 (ICP-AES) 檢 測鎘含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Cadmium by ICP-AES.	2	n.d.	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321, Ed. 1 111/54/CDV方法, 用感應耦合電 漿原子發射光譜儀 (ICP-AES) 檢 測鉛含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Lead by ICP- AES.	2	n.d.	82	9
汞 / Mercury (Hg)	mg/kg	參考IEC 62321, Ed. 1 111/54/CDV方法, 用感應耦合電 漿原子發射光譜儀 (ICP-AES) 檢 測汞含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Mercury by ICP-AES.	2	n.d.	n.d.	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, Ed. 1 111/54/CDV 方法 檢測, 用UV-VIS檢測六價鉻含量. / With reference to IEC 62321, Ed.1 111/54/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 極限值 (MDL)	結果 (Result)		
				NO.1	NO.2	NO.3
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	針對金屬材質之樣品, 參考IEC 62321, Ed. 1 111/54/CDV方法檢測, 用Spot test / Colorimetric方法檢測六價鉻含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method.	0.02mg/kg with 50 cm ² surface area	---	Negative	Negative
多氯聯苯 / Polychlorinated Biphenyls (PCBs) (CAS No.: 001336-36-3)	mg/kg	參考 US EPA 8270D方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 8270D method. Analysis was performed by GC/MS.	0.5	n.d.	---	---
多氯三聯苯 / Polychlorinated Terphenyls (PCTs)	mg/kg	參考 US EPA 8270D方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 8270D method. Analysis was performed by GC/MS.	0.5	n.d.	---	---
多氯萘 / Polychlorinated Naphthalene (PCNs)	mg/kg	參考 US EPA 8270D方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 8270D method. Analysis was performed by GC/MS.	5	n.d.	---	---
氯化石蠟 / Chlorinated Paraffin (C10~C13) (CAS No.: 010871-26-2)	%	參考 US EPA 8270D方法, 以氣相層析質譜儀(GC/MS)檢測. / With reference to US EPA 8270D method. Analysis was performed by GC/MS.	0.01	n.d.	---	---
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 000079-94-7)	mg/kg	參考DIN 53313方法, 以氣相層析儀/質譜儀檢測. / With reference to DIN 53313. Analysis was performed by GC/MS.	10	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)		
				NO.1	NO.2	NO.3
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321, Ed. 1 111/54/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, Ed.1 111/54/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 PBDEs (Mono to Nona) (Note 4)			-	n.d.	---	---
一溴聯苯醚 / Monobromobiphenyl ether			5	n.d.	---	---
二溴聯苯醚 / Dibromobiphenyl ether			5	n.d.	---	---
三溴聯苯醚 / Tribromobiphenyl ether			5	n.d.	---	---
四溴聯苯醚 / Tetrabromobiphenyl ether			5	n.d.	---	---
五溴聯苯醚 / Pentabromobiphenyl ether			5	n.d.	---	---
六溴聯苯醚 / Hexabromobiphenyl ether			5	n.d.	---	---
七溴聯苯醚 / Heptabromobiphenyl ether			5	n.d.	---	---
八溴聯苯醚 / Octabromobiphenyl ether			5	n.d.	---	---
九溴聯苯醚 / Nonabromobiphenyl ether			5	n.d.	---	---
十溴聯苯醚 / Decabromobiphenyl 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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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	NO.2	NO.3
偶氮 (AZO)	---	---	---	---	---	---
1): 4-氨基二苯 / 4-AMINODIPHENYL (CAS No.: 000092-67-1)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
2): 聯苯胺 / BENZIDINE (CAS No.: 00092-87-5)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
3): 4-氯鄰甲苯胺 / 4-CHLORO-O-TOLUIDINE (CAS No.: 000095-69-2)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
4): 2-萘胺 / 2-NAPHTHYLAMINE (CAS No.: 000091-59-8)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
5): 鄰氨基二甲基偶氮 / O-AMINOAZOTOLUENE (CAS No.: 000097-56-3)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
6): 對硝基鄰甲苯胺 / 2-AMINO-4-NITROTOLUENE (CAS No.: 000099-55-8)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	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)		
				NO.1	NO.2	NO.3
7): 對氯苯胺 / P-CHLOROANILINE (CAS No.: 000106-47-8)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
8): 4-甲氧基-間苯二胺 / 2,4-DIAMINOANISOLE (CAS No.: 000615-05-4)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
9): 4,4'-二氨基二苯甲烷 / 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000101-77-9)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
10): 3,3'-二氯聯苯胺 / 3,3'-DICHLOROBENZIDINE (CAS No.: 000091-94-1)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
11): 3,3'-二甲氧基聯苯胺 / 3,3'-DIMETHOXYBENZIDINE (CAS No.: 000119-90-4)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
12): 3,3'-二甲基聯苯胺 / 3,3'-DIMETHYLBENZIDINE (CAS No.: 000119-93-7)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
13): 3,3'-二甲基-4,4'-二氨基二苯甲烷 / 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000838-88-0)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	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)		
				NO.1	NO.2	NO.3
14): 2-甲氧基-5-甲基聯苯 / P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 000120-71-8)	mg/kg	本測試參考LMBG 82.02-2方法， 以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
15): 4,4'-亞甲基雙(氯苯胺) / 4,4'- METHYLENE-BIS-(2-CHLOROANILINE) (CAS No.: 000101-14-4)	mg/kg	本測試參考LMBG 82.02-2方法， 以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
16): 4,4'-氧化雙苯胺 / 4,4'- OXYDIANILINE (CAS No.: 000101-80-4)	mg/kg	本測試參考LMBG 82.02-2方法， 以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
17): 4,4'-硫代雙苯胺 / 4,4'- THIODIANILINE (CAS No.: 000139-65-1)	mg/kg	本測試參考LMBG 82.02-2方法， 以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
18): 鄰甲苯胺 / O-TOLUIDINE (CAS No.: 000095-53-4)	mg/kg	本測試參考LMBG 82.02-2方法， 以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
19): 2,4-二氨基甲苯 / 2,4- TOLUYLENEDIAMINE (CAS No.: 000095-80- 7)	mg/kg	本測試參考LMBG 82.02-2方法， 以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
20): 2,4,5-三甲基苯胺 / 2,4,5- TRIMETHYLANILINE (CAS No.: 000137-17- 7)	mg/kg	本測試參考LMBG 82.02-2方法， 以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	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)		
				NO.1	NO.2	NO.3
21): 鄰位甲氧基苯胺 / O-ANISIDINE (CAS No.: 000090-04-0)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
22): 對氨基偶氮苯 / P-AMINOAZOBENZENE (CAS No.: 000060-09-3)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
23): 2,4-二甲基苯胺 / 2,4-XYLIDINE (CAS No.: 000095-68-1)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.	---	---
24): 2,6-二甲基苯胺 / 2,6-XYLIDINE (CAS No.: 000087-62-7)	mg/kg	本測試參考LMBG 82.02-2方法，以氣相層析質譜儀(GC/MS)檢測。 / With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	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)
				NO.4
鎳 / Nickel (Ni)	mg/kg	參考US EPA 3050B 方法，用感應耦合電漿原子發射光譜儀檢測鎳含量。 / With reference to US EPA Method 3050B for Nickel Content. Analysis was performed by ICP-AES.	2	9860

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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內容, 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 (無規格值)
6. "---" = Not Conducted (未測項目)
7. ** = Qualitative analysis (No Unit) 定性分析(無單位)
8. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
9. 若為氯化石蠟中單一化合物, 則偵測極限為5ppm (The MDL is 5ppm for the single compound of CP)
10. 測試部位No.4之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 part name No.4 of 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)

測試報告

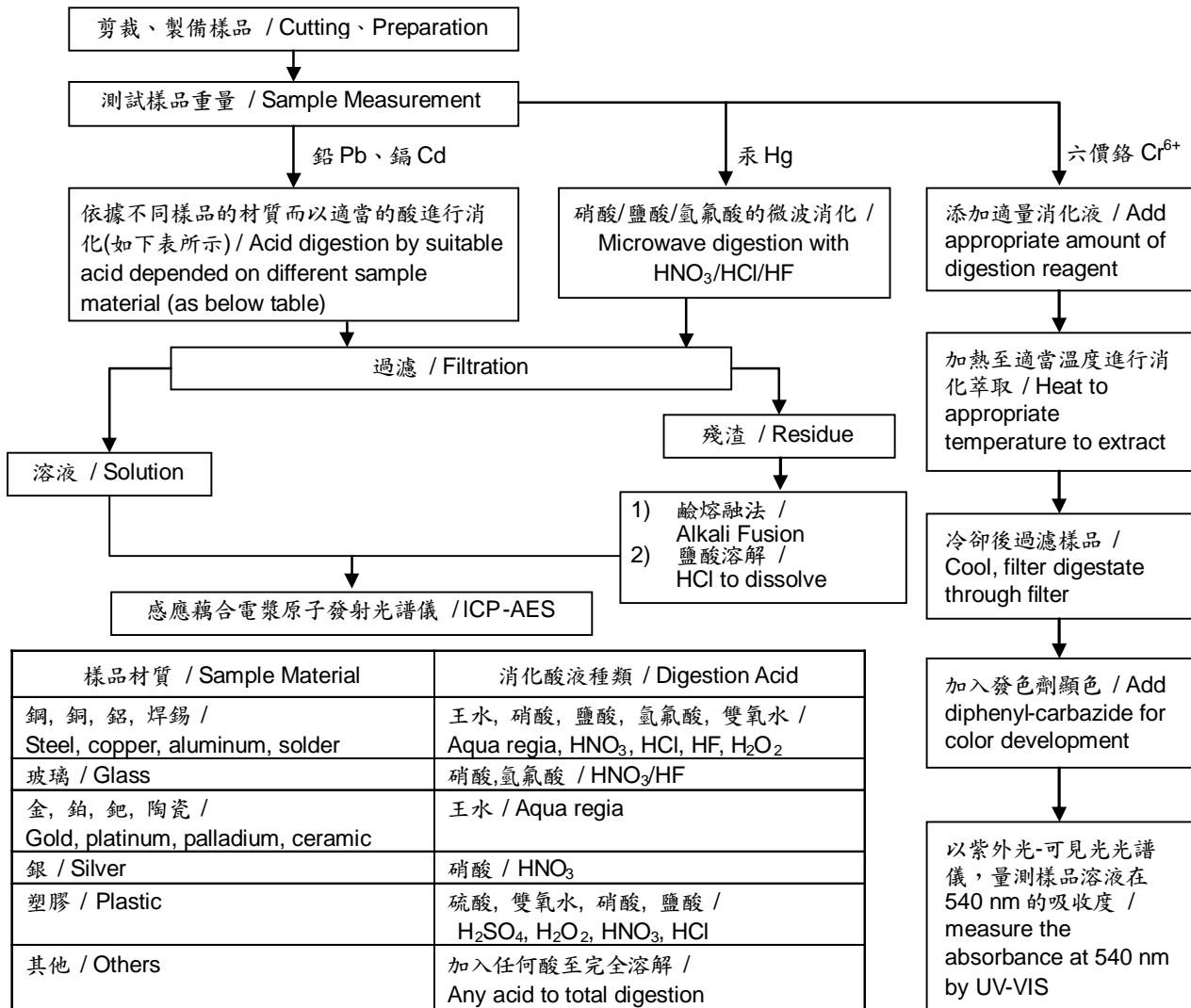
Test Report

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億光電子工業股份有限公司
 EVERLIGHT ELECTRONICS CO., LTD.
 台北縣土城市中央路三段76巷25號
 NO. 25, LANE 76, SEC. 3, CHUNG YANG ROAD, TUCHENG, TAIPEI, 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：張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人：龔振裕 / Name of the person in charge of measurement: Chenyu Kung



測試報告 Test Report

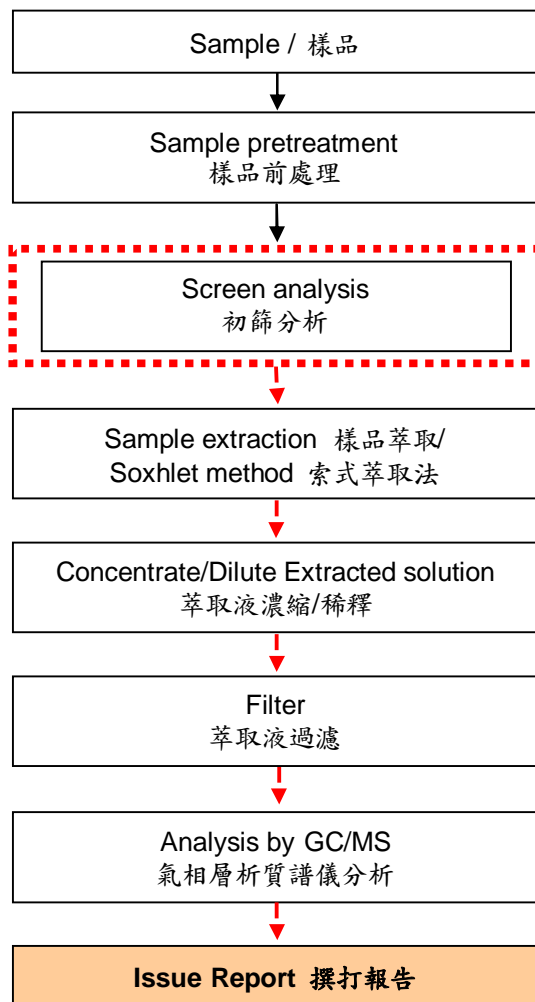
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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

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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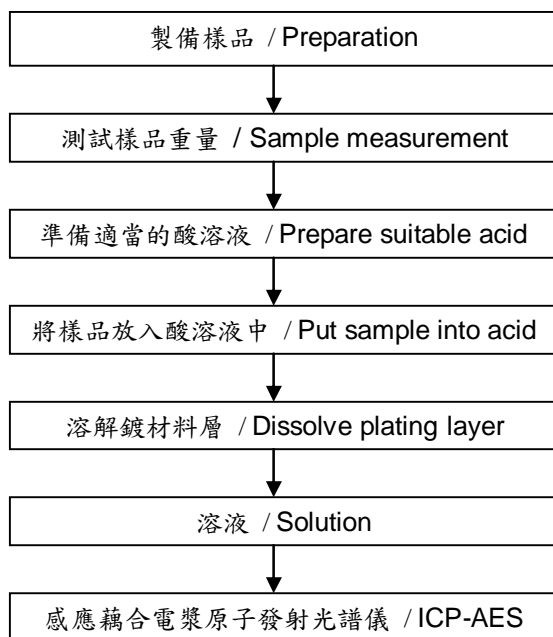
台北縣土城市中央路三段76巷25號

NO. 25, LANE 76, SEC. 3, CHUNG YANG ROAD, TUCHENG, TAIPEI, TAIWAN,

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- 3) 測試負責人：龔振裕 / Name of the person in charge of measurement: Chenyu Kung

鍍層重金屬測試流程圖 / Flow Chart of Stripping method for metal analysis

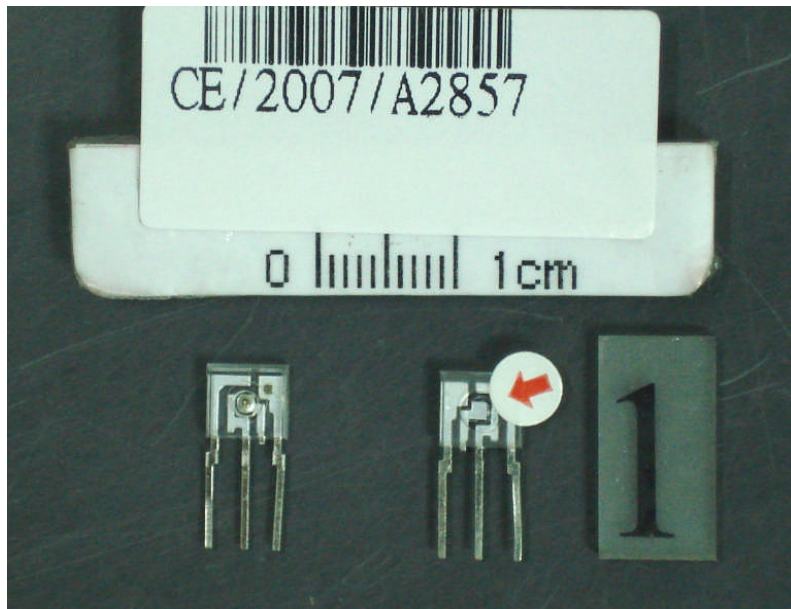
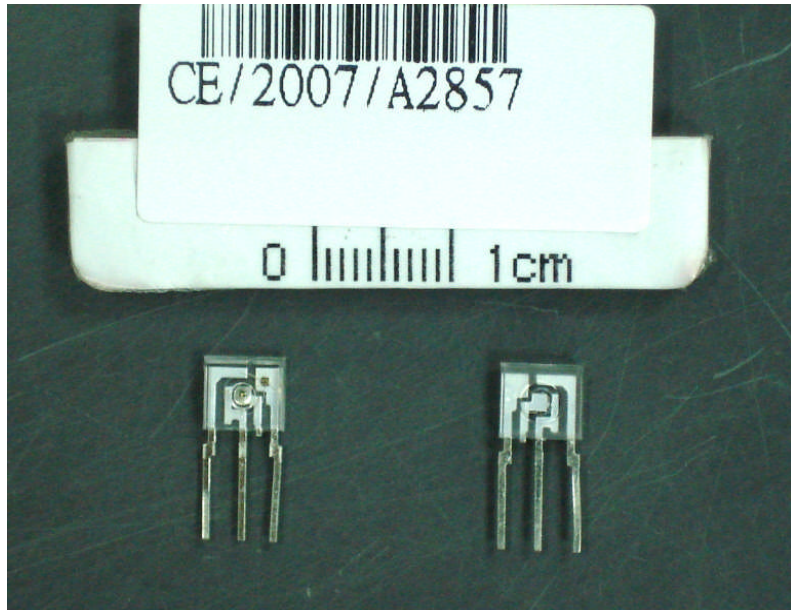


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