

## 測試報告/ Test Report

|                           |                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------|
| 工服編號/ Application No      | ET94O-07-020A                                                                             |
| 承辦日期/ Date of Receipt     | 2005/07/20                                                                                |
| 測試日期/ Date of Performance | 2005/07/20                                                                                |
| 報告日期/ Date of Issue       | 2005/07/29                                                                                |
| 委託機構/ Manufacturer        | Smart cabling & transminssion                                                             |
| 地 址/ Address              | 7F-1, No. 168, Lien Cheng Rd., Chung-Ho City, Taipei Hsien, Taiwan ,<br>R.O.C. 235        |
| 樣品名稱/ Sample Description  | Twisted Pair Transceiver                                                                  |
| 測試內容/ Report Content      | A. 樣品敘述與測試結果/ Sample Information & Results<br>B. 樣品圖片/ Sample Photo<br>C. 流程圖/ Flow Chart |

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審核主管/ Checked by: \_\_\_\_\_



Laboratory Representative

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Department Manager

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## A. 樣品敘述/ Sample Information

NO.1

樣品編號/ Sample No. ET94O-07-020

樣品名稱/ Sample Description Twisted Pair Transceiver

樣品型號/ Model No. TTP111XXX

## 測試結果/ Test Results

| 測試項目<br>Test Item(s) | 儀器設備<br>Instruments | 參考測試方法<br>Method                       | 測試結果/ Test Results<br>(單位/ Unit :mg/kg ; ppm) |               |
|----------------------|---------------------|----------------------------------------|-----------------------------------------------|---------------|
|                      |                     |                                        | NO.1                                          | 方法偵測極限<br>MDL |
| 鉛/ Pb                | ICP-OES             | US EPA 3051A & 6010B                   | N.D.                                          | 0.6           |
| 鎘/ Cd                | ICP-OES             | US EPA 3051A & 6010B                   | N.D.                                          | 0.6           |
| 汞/ Hg                | ICP-OES             | US EPA 3051A & 6010B                   | N.D.                                          | 1.0           |
| 六價鉻/ Cr+6            | UV-VIS              | US EPA 3060A & 7196A                   | N.D.                                          | 0.5           |
| 多溴聯苯/ PBBs           |                     |                                        |                                               |               |
| Monobromobiphenyl    | GC-MS               | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D.                                          | 1.0           |
| Dibromobiphenyl      | GC-MS               | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D.                                          | 1.0           |
| Tribromobiphenyl     | GC-MS               | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D.                                          | 1.0           |
| Tetrabromobiphenyl   | GC-MS               | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D.                                          | 1.0           |

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|                          |       |                                        |      |     |
|--------------------------|-------|----------------------------------------|------|-----|
| Pentabromobiphenyl       | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |
| Hexabromobiphenyl        | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |
| Heptabromobiphenyl       | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |
| Octabromobiphenyl        | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |
| Nonabromobiphenyl        | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |
| Decabromobiphenyl        | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |
| 多溴聯苯醚/ PBDEs             |       |                                        |      |     |
| Monobromobiphenyl ether  | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 5.0 |
| Dibromobiphenyl ether    | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |
| Tribromobiphenyl ether   | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |
| Tetrabromobiphenyl ether | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |
| Pentabromobiphenyl ether | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |
| Hexabromobiphenyl ether  | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |
| Heptabromobiphenyl ether | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |
| Octabromobiphenyl ether  | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |

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|                         |       |                                        |      |     |
|-------------------------|-------|----------------------------------------|------|-----|
| Nonabromobiphenyl ether | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |
| Decabromobiphenyl ether | GC-MS | US EPA 3540C/3550B & 8082A/8081A/8270C | N.D. | 1.0 |

## 備註/ Note :

1. N.D. : 即為偵測不到/ Not Detected.
2. MDL : 方法偵測極限/ Method Detection Limitation.
3. ppm : = mg/kg (0.1% = 1000 ppm)
4. 測試儀器中英文對照/ Sino-British Contrast of the instrument
  - a. ICP-OES 感應耦合電漿原子發射光譜儀
  - b. UV-VIS 分光光度計
  - c. GC-MS 氣相層析質譜儀

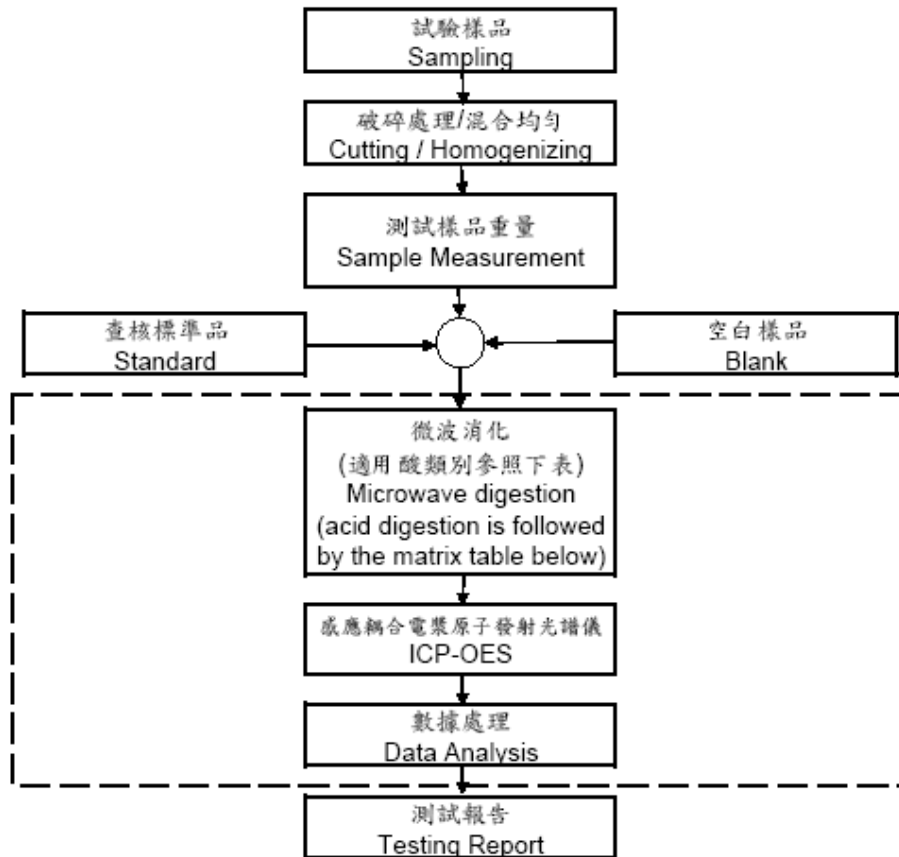
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## B. 樣品照片 / Sample Photo



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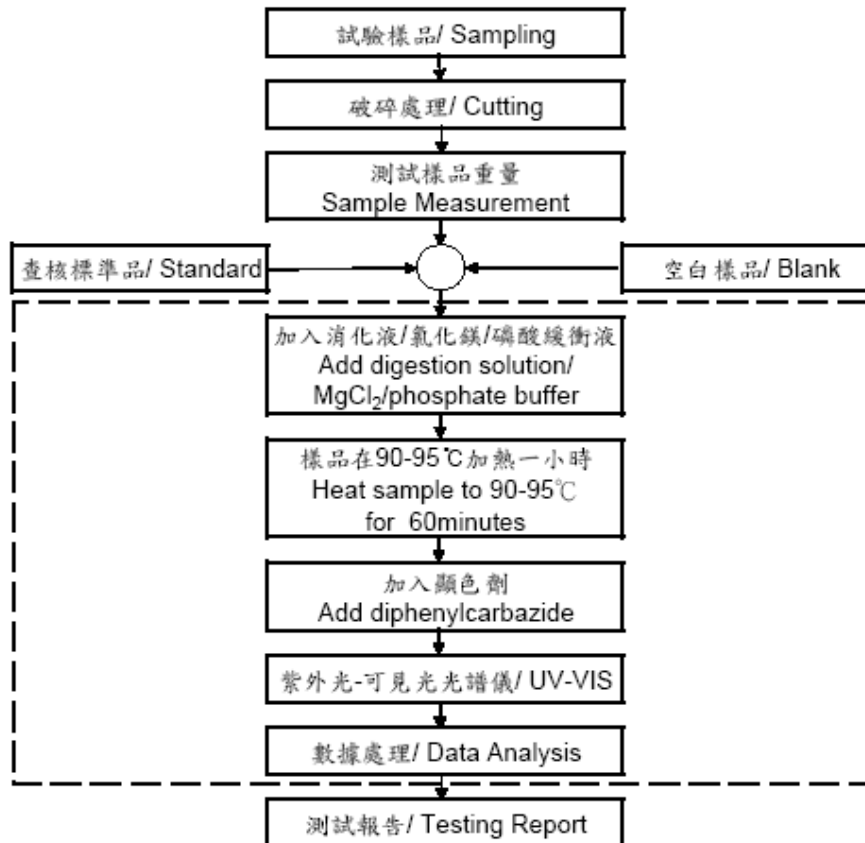
### C. 流程圖/ Flow Chart



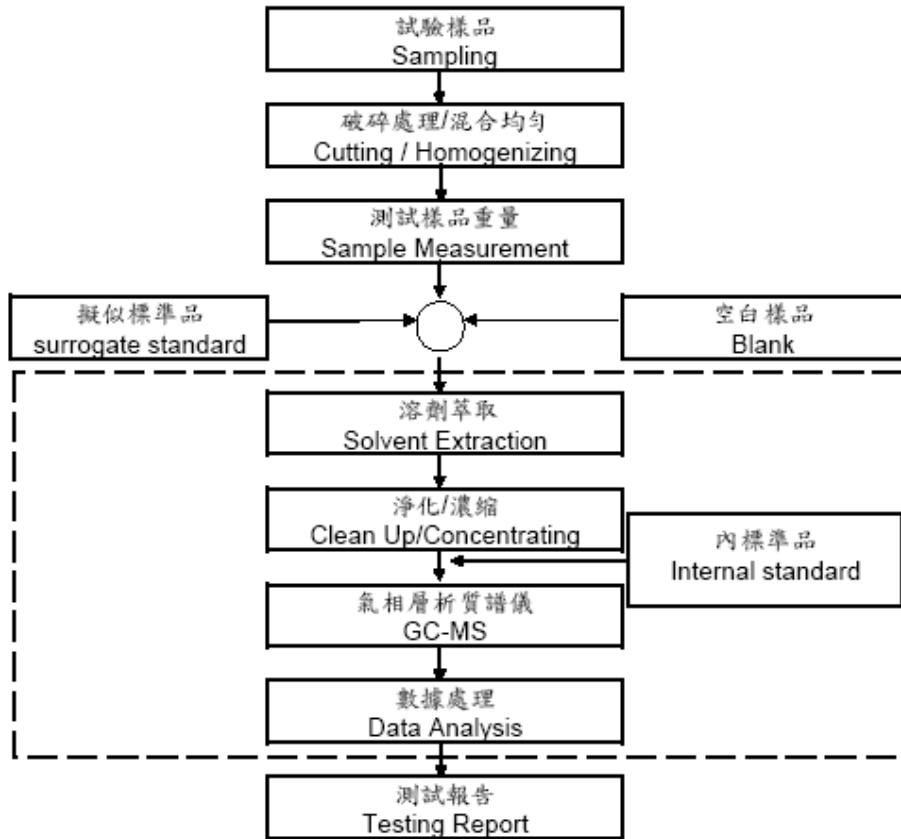
| 樣品種類/ Matrix | 適用消化酸液/ Digestion Acid                                                 |
|--------------|------------------------------------------------------------------------|
| 金屬/ Metal    | 硝酸、鹽酸、氫氟酸、過氧化氫/ HNO <sub>3</sub> 、HCl、HF、H <sub>2</sub> O <sub>2</sub> |
| 塑膠/ Plastic  | 硝酸、鹽酸、過氧化氫/ HNO <sub>3</sub> 、HCl、H <sub>2</sub> O <sub>2</sub>        |
| 玻璃/ Glass    | 硝酸、氫氟酸/ HNO <sub>3</sub> 、HF                                           |

Flow Chart of Digestion for Pb、Cd、Hg (without residue)

## C. 流程圖/ Flow Chart



Flow Chart of Extraction for Cr<sup>6+</sup>



Flow Chart of Extraction for PBB/PBDE

---報告結尾/ End of Report ---