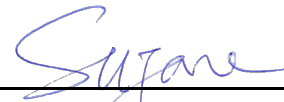


測試報告/ Test Report

| | |
|---------------------------|---|
| 工服編號/ Application No | 08-05-QAC-016 |
| 承辦日期/ Date of Receipt | 2008/05/05 |
| 測試日期/ Date of Performance | 2008/05/06 |
| 報告日期/ Date of Issue | 2008/05/12 |
| 委託機構/ Manufacturer | 新基科技股份有限公司 Smart cabling & transminssion |
| 地址/ Address | 台北縣新店市中正路 493 號 10 樓 10F, No.493, Chung-Cheng Rd., Hsin Tien City, Taipei 231, Taiwan R.O.C. |
| 樣品名稱/ Sample Description | CAT5 16 Channel Active Receiver |
| 測試內容/ Report Content | A. 樣品敘述與測試結果/ Sample Information & Results B. 樣品圖片/ Sample Photo C. 流程圖/ Flow Chart |

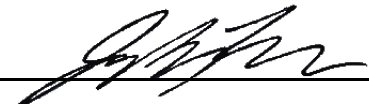
1. 送測樣品及其相關訊息均由客戶提供並已經由客戶確認無誤。/ Any sample(s) and its information listed in this document are provided and identified by clients.
2. 本報告僅對測試樣品負責。/ This report only refers to the specimen(s); it does not imply the result of production to tested sample(s).
3. 非經本中心同意，本報告內容不得以任何方式摘錄複印使用。(全部複印除外)。/ This Test Report cannot be reproduced, except in full, without prior written permission of the laboratory.

檢閱人員/ Reviewed by: _____



Engineer

審核主管/ Checked by: _____



Laboratory Representative

報告簽署人/ Approved by: _____



Department Manager

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A. 樣品敘述/ Sample Information

| | | |
|--------------------------|---------------------------------|---------------------------------|
| | NO.1 | NO.2 |
| 樣品編號/ Sample No. | 08-05-QAC-016-1 | 08-05-QAC-016-2 |
| 樣品名稱/ Sample Description | CAT5 16 Channel Active Receiver | CAT5 16 Channel Active Receiver |
| 樣品型號/ Model No. | TPA016XXX | TPA016XXX |

測試結果/ Test Results

| 測試項目 Test Item(s) | 儀器設備 Instruments | 參考測試方法 Reference Method | 測試結果/ Test Results (單位/ Unit :mg/kg ; ppm) | | |
|-----------------------|---------------------|--|---|------|---------------|
| | | | NO.1 | NO.2 | 方法偵測極限 MDL |
| 鉛/ Pb | ICP-OES | US EPA 3052 & 6010B Totally Dissolved | N.D. | N.D. | 2.0 |
| 鎘/ Cd | ICP-OES | US EPA 3052 & 6010B Totally Dissolved | N.D. | N.D. | 2.0 |
| 汞/ Hg | ICP-OES | US EPA 3052 & 6010B Totally Dissolved | N.D. | N.D. | 2.0 |
| 六價鉻/ Cr ⁶⁺ | UV-VIS | US EPA 3060A & 7196A | N.D. | N.D. | 2.0 |
| 多溴聯苯/ PBBs | | | | | |
| Monobromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Dibromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Tribromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Tetrabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Pentabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Hexabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Heptabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |

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| | | | | | |
|--------------------------|-------|-----------------------|------|------|-----|
| Octabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Nonabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Decabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| 多溴聯苯醚/ PBDEs | | | | | |
| Monobromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Dibromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Tribromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Tetrabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Pentabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Hexabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Heptabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Octabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Nonabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Decabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |

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A. 樣品敘述/ Sample Information

| | | |
|--------------------------|---------------------------------|---------------------------------|
| | NO.3 | NO.4 |
| 樣品編號/ Sample No. | 08-05-QAC-016-3 | 08-05-QAC-016-4 |
| 樣品名稱/ Sample Description | CAT5 16 Channel Active Receiver | CAT5 16 Channel Active Receiver |
| 樣品型號/ Model No. | TPA016XXX | TPA016XXX |

測試結果/ Test Results

| 測試項目 Test Item(s) | 儀器設備 Instruments | 參考測試方法 Reference Method | 測試結果/ Test Results (單位/ Unit :mg/kg ; ppm) | | |
|-----------------------|---------------------|--|---|------|---------------|
| | | | NO.3 | NO.4 | 方法偵測極限 MDL |
| 鉛/ Pb | ICP-OES | US EPA 3052 & 6010B Totally Dissolved | N.D. | N.D. | 2.0 |
| 鎘/ Cd | ICP-OES | US EPA 3052 & 6010B Totally Dissolved | N.D. | N.D. | 2.0 |
| 汞/ Hg | ICP-OES | US EPA 3052 & 6010B Totally Dissolved | N.D. | N.D. | 2.0 |
| 六價鉻/ Cr ⁺⁶ | UV-VIS | US EPA 3060A & 7196A | N.D. | N.D. | 2.0 |
| 多溴聯苯/ PBBs | | | | | |
| Monobromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Dibromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Tribromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Tetrabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Pentabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Hexabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Heptabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |

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| | | | | | |
|--------------------------|-------|-----------------------|------|------|-----|
| Octabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Nonabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Decabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| 多溴聯苯醚/ PBDEs | | | | | |
| Monobromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Dibromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Tribromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Tetrabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Pentabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Hexabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Heptabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Octabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Nonabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |
| Decabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | N.D. | 5.0 |

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A. 樣品敘述/ Sample Information

| | |
|--------------------------|---------------------------------|
| | NO.5 |
| 樣品編號/ Sample No. | 08-05-QAC-016-5 |
| 樣品名稱/ Sample Description | CAT5 16 Channel Active Receiver |
| 樣品型號/ Model No. | TPA016XXX |

測試結果/ Test Results

| 測試項目 Test Item(s) | 儀器設備 Instruments | 參考測試方法 Reference Method | 測試結果/ Test Results (單位/ Unit :mg/kg ; ppm) | |
|-----------------------|---------------------|--|---|---------------|
| | | | NO.5 | 方法偵測極限 MDL |
| 鉛/ Pb | ICP-OES | US EPA 3052 & 6010B Totally Dissolved | N.D. | 2.0 |
| 鎘/ Cd | ICP-OES | US EPA 3052 & 6010B Totally Dissolved | N.D. | 2.0 |
| 汞/ Hg | ICP-OES | US EPA 3052 & 6010B Totally Dissolved | N.D. | 2.0 |
| 六價鉻/ Cr ⁶⁺ | UV-VIS | US EPA 3060A & 7196A | N.D. | 2.0 |
| 多溴聯苯/ PBBs | | | | |
| Monobromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Dibromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Tribromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Tetrabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Pentabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Hexabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Heptabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |

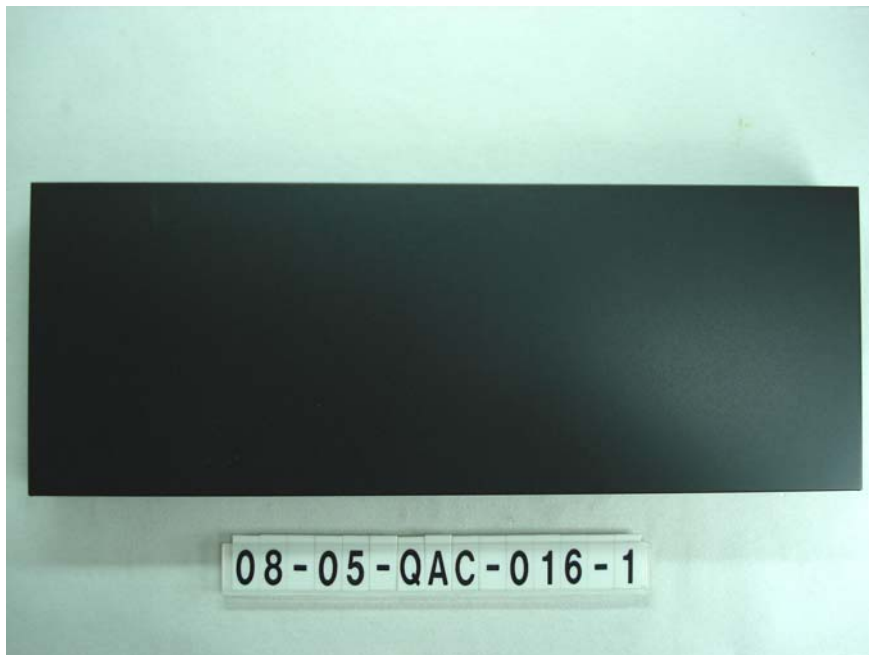
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| | | | | |
|--------------------------|-------|-----------------------|------|-----|
| Octabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Nonabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Decabromobiphenyl | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| 多溴聯苯醚/ PBDEs | | | | |
| Monobromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Dibromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Tribromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Tetrabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Pentabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Hexabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Heptabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Octabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Nonabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |
| Decabromobiphenyl ether | GC-MS | IEC 62321 , 111/24/CD | N.D. | 5.0 |

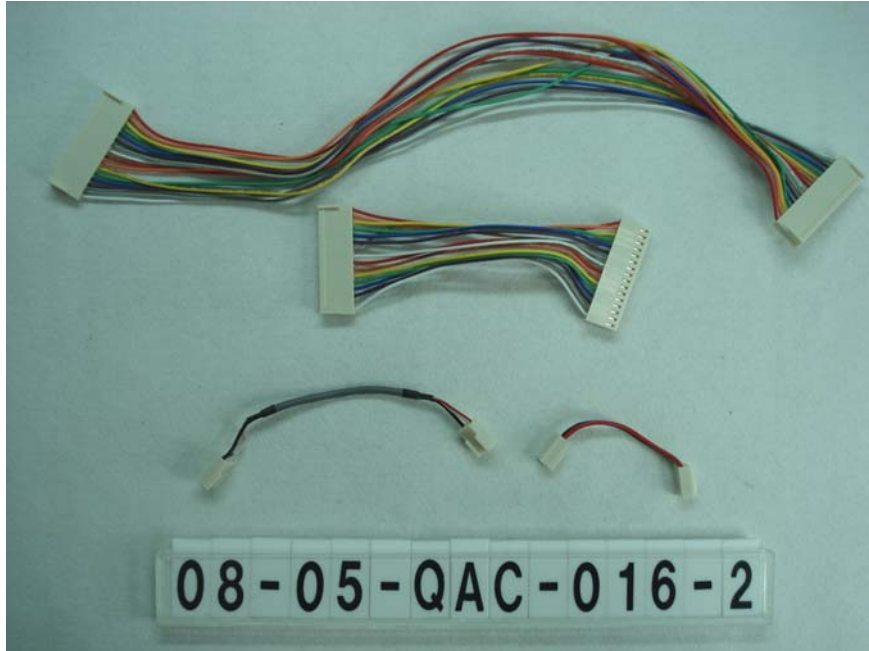
備註/ Note :

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
5. 測試人員/ Tested by : Ellen 、 Jessica

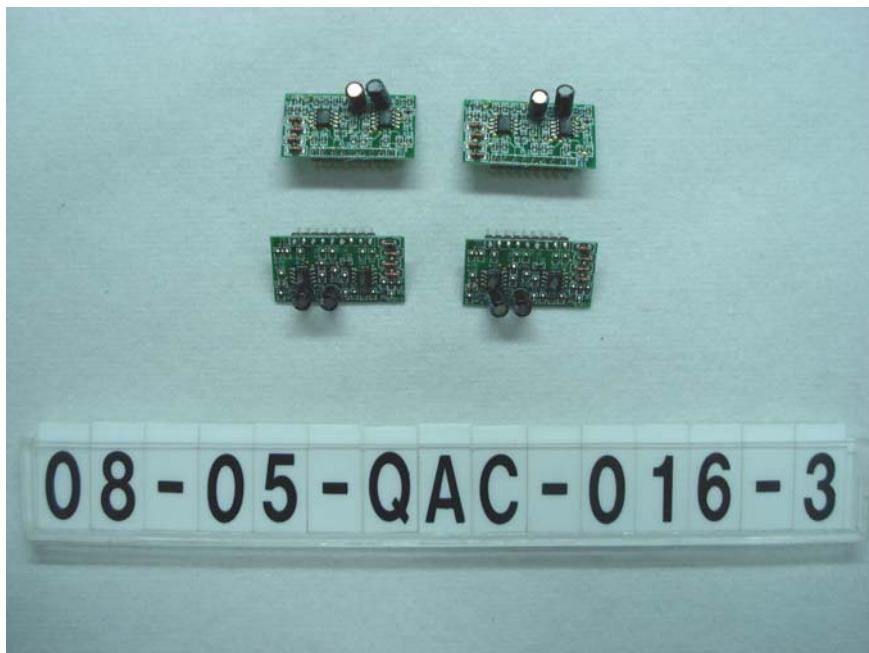
B. 樣品照片/ Sample Photo



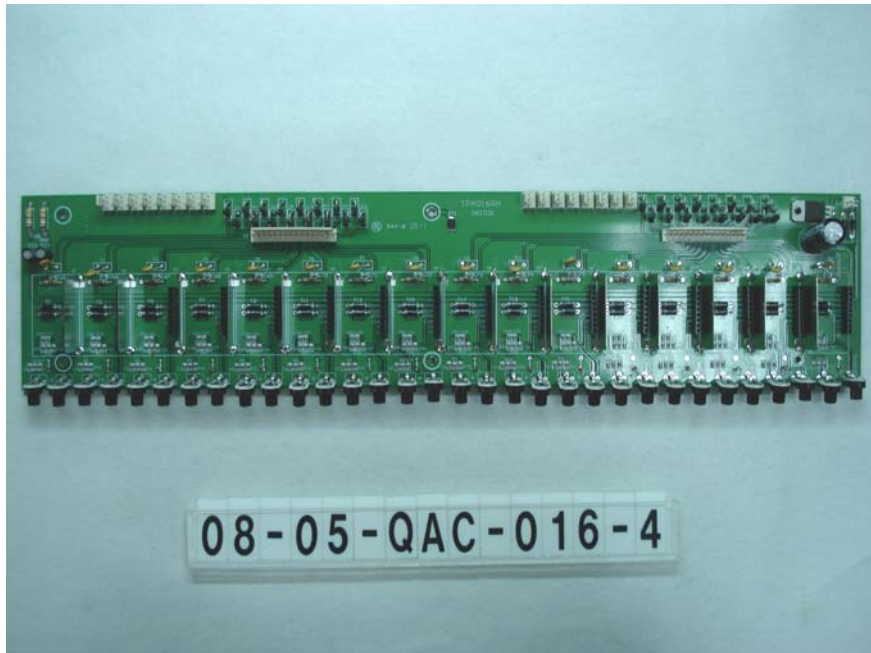
Test part : Mix sample



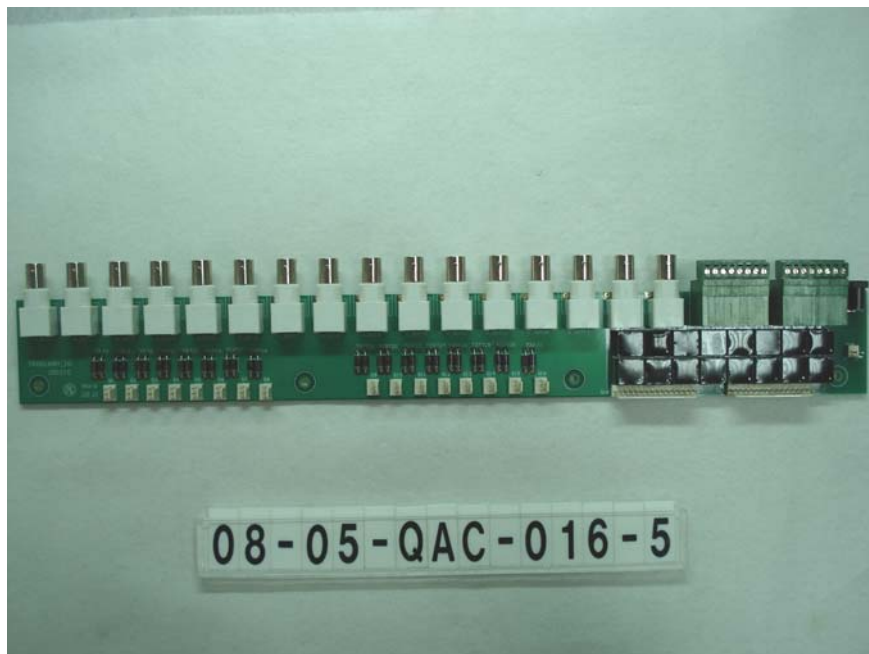
Test part : Mix sample



Test part : Mix sample

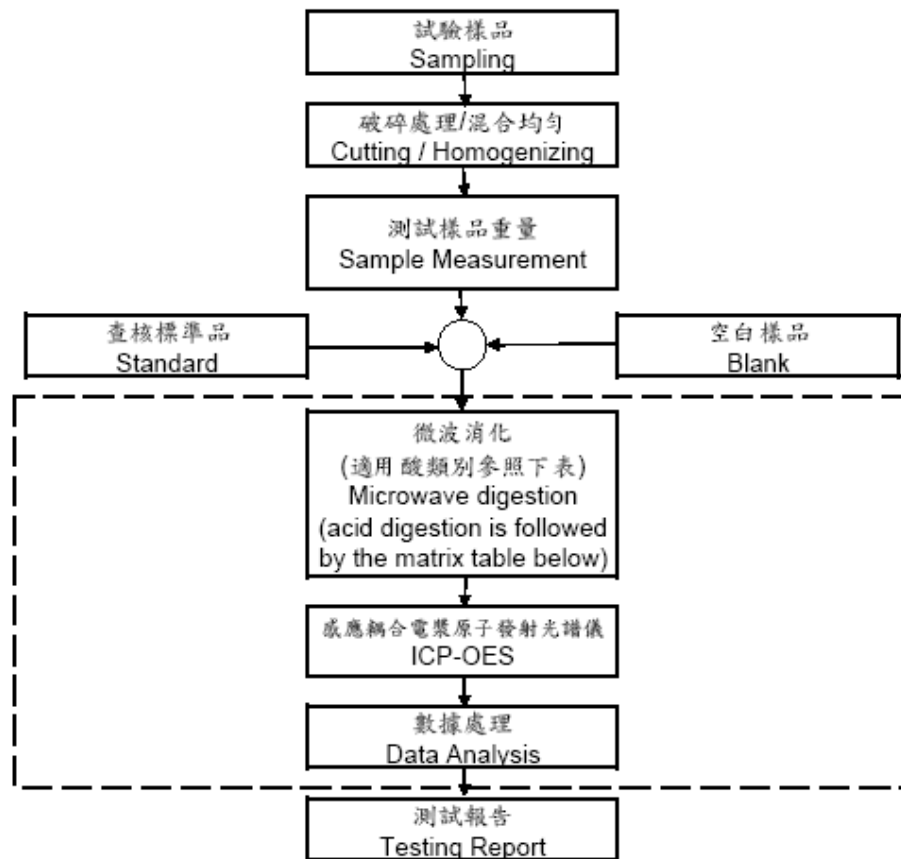


Test part : Mix sample



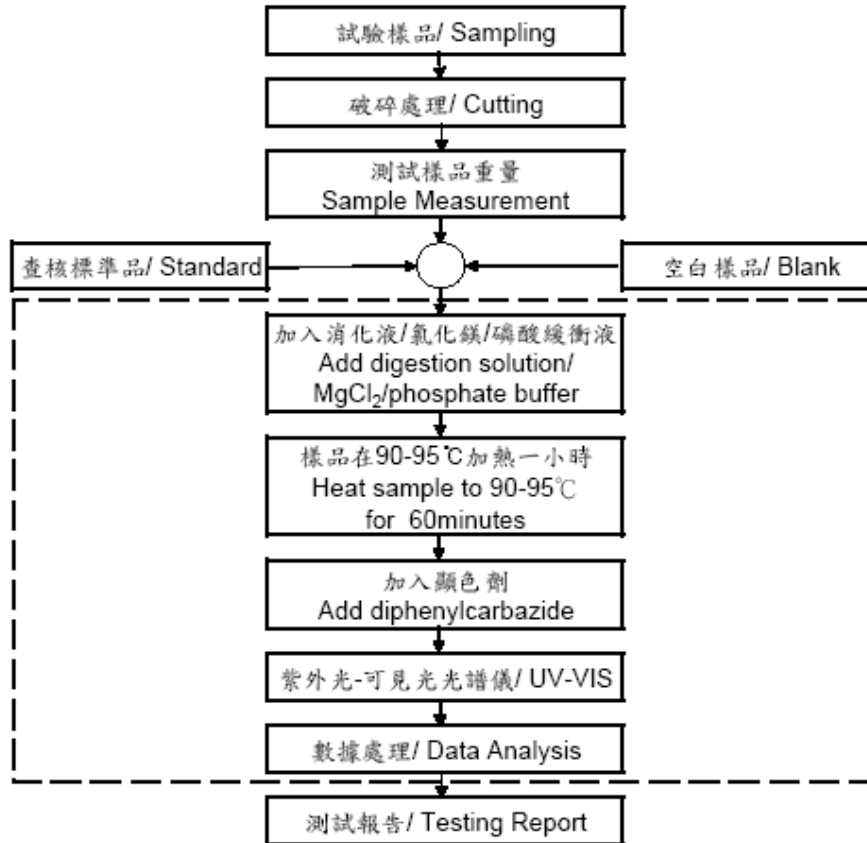
Test part : Mix sample

C. 流程圖/ Flow Chart

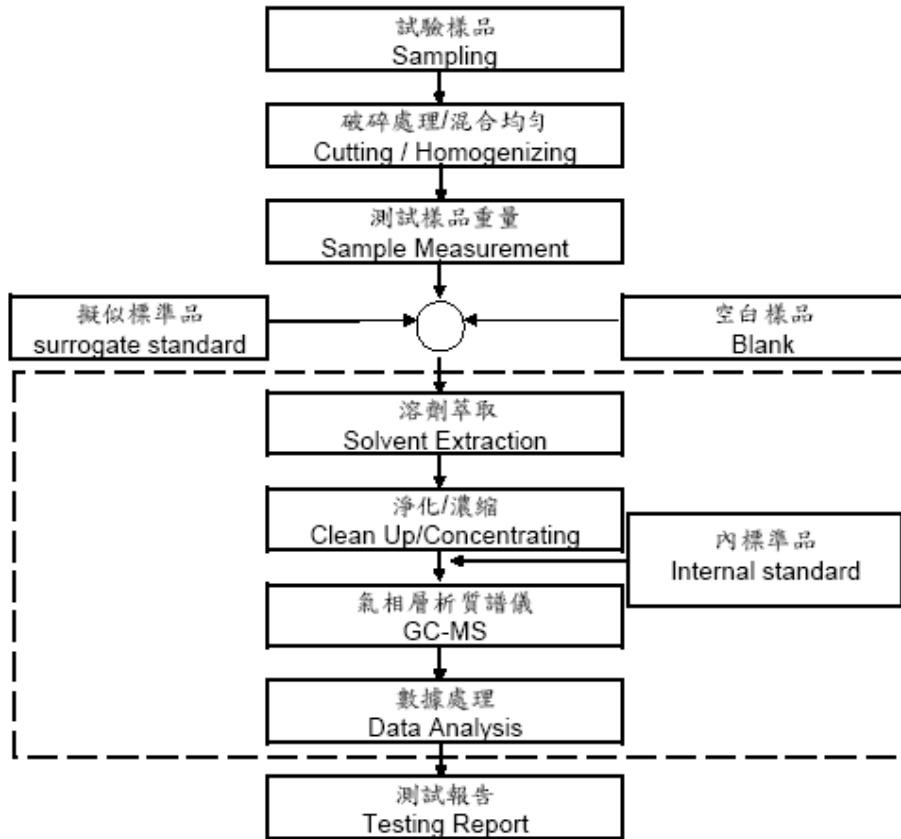


| 樣品種類/ Matrix | 適用消化酸液/ Digestion Acid |
|--------------|--|
| 金屬/ Metal | 硝酸、鹽酸、氫氟酸、過氧化氫/ HNO ₃ 、HCl、HF、H ₂ O ₂ |
| 塑膠/ Plastic | 硝酸、鹽酸、過氧化氫/ HNO ₃ 、HCl、H ₂ O ₂ |
| 玻璃/ Glass | 硝酸、氫氟酸/ HNO ₃ 、HF |

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



Flow Chart of Extraction for Cr⁶⁺



Flow Chart of Extraction for PBB/PBDE

---報告結尾/ End of Report ---