

試驗報告

號碼(No.) : KA/2017/C2377A-02 日期(Date) : 2018/03/07 頁數 (Page) : 1 of 11

Test Report

薩摩亞商史巴克電子有限公司台灣分公司

SPARKTEK TECHNOLOGY CO., LTD.(SAMOA) TAIWAN BRANCH

新北市中和區建康路79號2F

2F., NO.79, JIANKANG RD., ZHONGHE DIST., NEW TAIPEI CITY 235, TAIWAN (R.O.C.)


以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description) : ESD/TVS PROTECTION DIODE
樣品型號(Style/Item No.) : DFN0603KN, DFN1006DN, DFN1006, DFN1006BP, DFN1410P2, DFN1610TN, DFN2020P2, SOD-523, SOD-323, SOD-123
收件日期(Sample Receiving Date) : 2017/12/29
測試期間(Testing Period) : 2017/12/29 TO 2018/01/05

測試需求(Test Requested) : 依據客戶指定，檢測鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚，DBP, BBP, DEHP, DIBP. (As specified by client, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

測試方法(Test Method) : 請參閱下一頁 (Please refer to following pages).

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).


報告簽署人/Ray Chang, Ph.D./Manager-Tech
Signed for and on behalf of
SGS Taiwan Limited





化學實驗室-高雄 Chemical Laboratory - Kao., SGS Taiwan Ltd.

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2F., NO.79, JIANKANG RD., ZHONGHE DIST., NEW TAIPEI CITY 235, TAIWAN (R.O.C.)

測試結果(Test Results)

測試部位(PART NAME)No.1 : 整體混測:ESD/TVS PROTECTION DIODE
(MIXED ALL PARTS:ESD/TVS PROTECTION DIODE)

| 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 |
| 鎘 / Cadmium (Cd) | mg/kg | 參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | n.d. |
| 鉛 / Lead (Pb) | mg/kg | 參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | 7.30 |
| 汞 / Mercury (Hg) | mg/kg | 參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES. | 2 | n.d. |
| 六價鉻 / Hexavalent Chromium Cr(VI) | mg/kg | 參考IEC 62321-7-2:2017, 以UV-VIS檢測. / With reference to IEC 62321-7-2:2017 and performed by UV-VIS. | 8 | n.d. |
| 多溴聯苯總和 / Sum of PBBs | mg/kg | 參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed 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. | | |

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SPARKTEK TECHNOLOGY CO., LTD.(SAMOA) TAIWAN BRANCH

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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 |
| 多溴聯苯醚總和 / Sum of PBDEs | mg/kg | 參考IEC 62321-6: 2015方法, 以氣相層析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by GC/MS. | - | n.d. |
| 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. | | |
| 鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) | mg/kg | 參考IEC 62321-8:2017, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321-8:2017. Analysis was performed by GC/MS. | 50 | n.d. |
| 鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2) | | | 50 | n.d. |
| 鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) | | | 50 | n.d. |
| 鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) | | | 50 | n.d. |
| 鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0) | | | 50 | n.d. |
| 鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0, 68515-48-0) | | | 50 | n.d. |
| 鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0, 68515-49-1) | | | 50 | 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 |
| 全氟辛酸(銨) / PFOA (CAS No.: 335-67-1) | mg/kg | 參考US EPA 3550C: 2007方法, 以液相層析/質譜 儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS. | 10 | n.d. |
| 全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS) | | | 10 | n.d. |
| 鹵素 / Halogen | | | | |
| 鹵素(氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8) | mg/kg | 參考BS EN 14582:2016, 以離子層析儀分析. / With reference to BS EN 14582:2016. Analysis was performed by IC. | 50 | n.d. |
| 鹵素(氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1) | | | 50 | n.d. |
| 鹵素(溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2) | | | 50 | n.d. |
| 鹵素(碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8) | | | 50 | n.d. |

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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別單一材質的含量。(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.)
6. 此為2018/1/5所發行KA/2017/C2377之加發報告，原始資料請參考KA/2017/C2377。(This is the additional test report of KA/2017/C2377 which was issued on 2018/1/5. Please refer to KA/2017/C2377 for original information.)

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm)，在半成品、成品或零部件中不得超過0.1%(1000ppm)，在紡織品或塗層材料中不得超過 $1\mu\text{g}/\text{m}^2$ 。(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu\text{g}/\text{m}^2$.)

全氟辛烷磺酸指全氟辛烷磺酸和它的衍生物包括全氟辛烷磺酸，全氟辛基磺醯胺，N-甲基全氟辛烷磺醯胺，N-乙基全氟辛烷磺醯胺，N-甲基全氟辛基磺醯基氨基乙醇，N-乙基全氟辛基磺醯基氨基乙醇。(PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.)

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SPARKTEK TECHNOLOGY CO., LTD.(SAMOA) TAIWAN BRANCH

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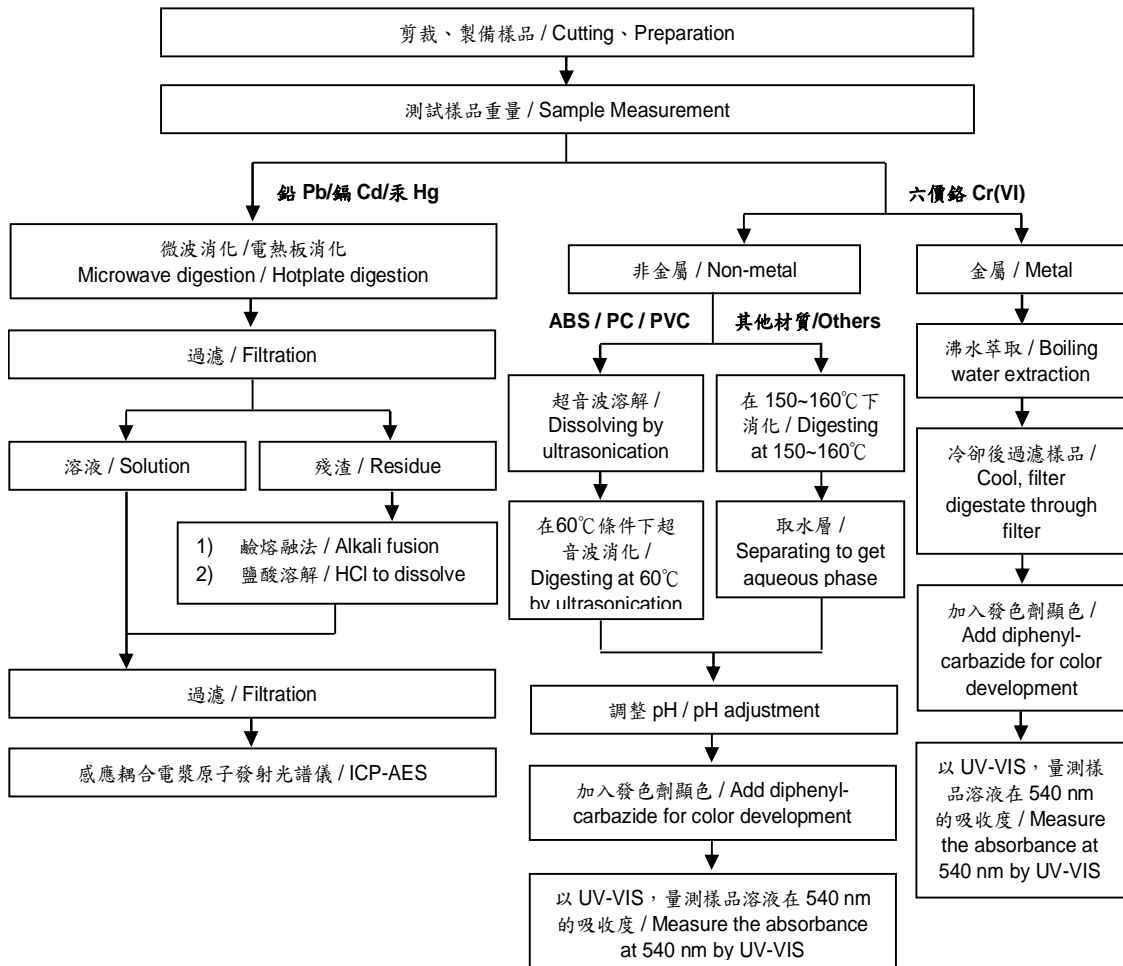
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重金屬流程圖 / Analytical flow chart of Heavy Metal

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)

- 測試人員：劉俊宏 / Technician : Jony Liu
- 測試負責人：張伯睿 / Supervisor: Ray Chang



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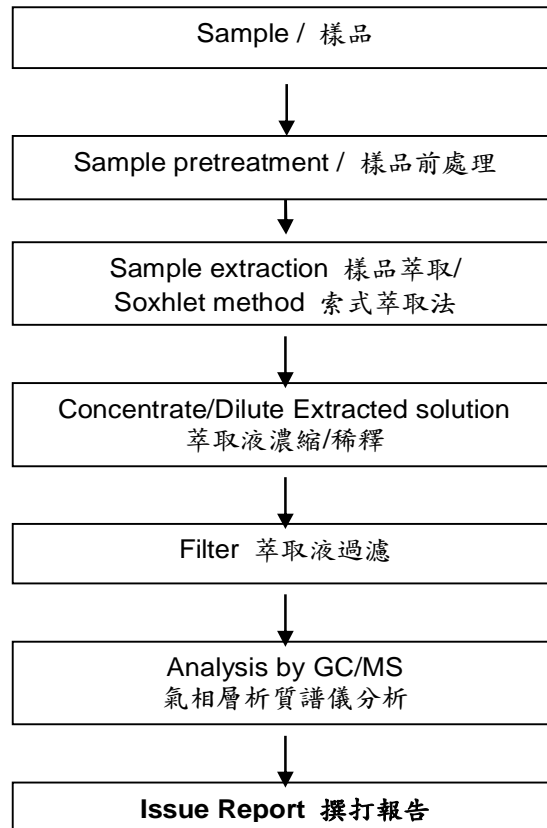
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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1)測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2)測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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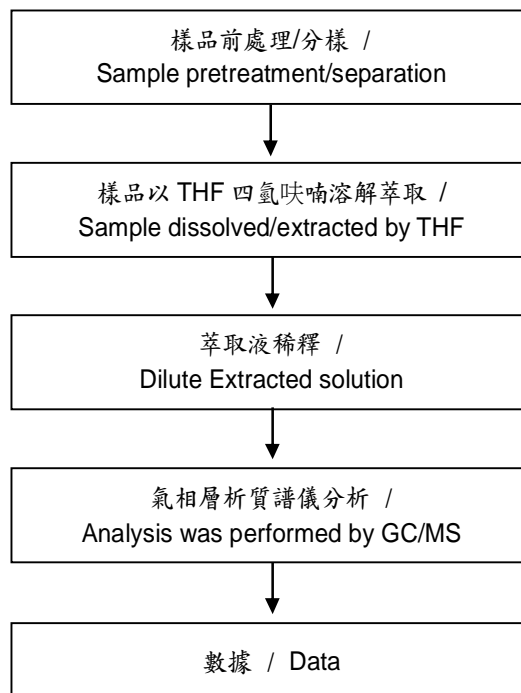
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員：陳威錚 / Name of the person who made measurement: Dorothy Chen
- 測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang

【測試方法/Test method: IEC 62321-8】



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SPARKTEK TECHNOLOGY CO., LTD.(SAMOA) TAIWAN BRANCH

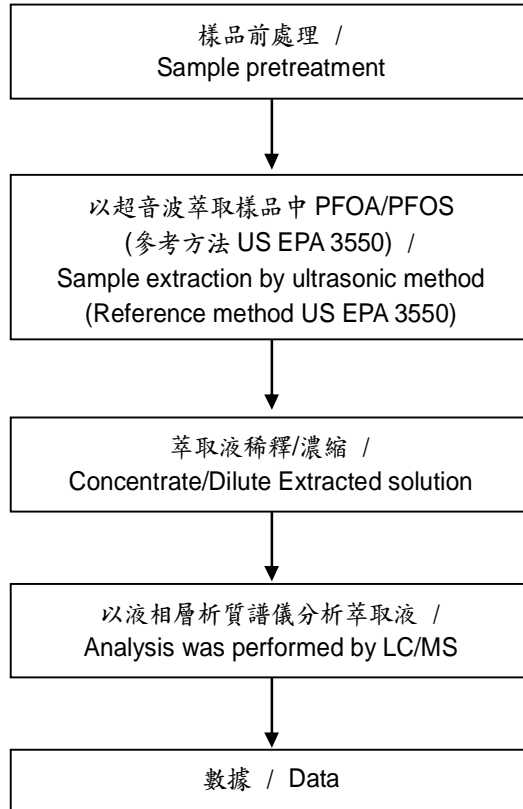
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2F., NO.79, JIANKANG RD., ZHONGHE DIST., NEW TAIPEI CITY 235, TAIWAN (R.O.C.)

全氟辛酸(銨)/全氟辛酸磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

1)測試人員：黃璟璵 / Name of the person who made measurement: Ginny Huang

2)測試負責人：張伯睿 / Name of the person in charge of measurement: Ray Chang



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試驗報告

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Test Report

薩摩亞商史巴克電子有限公司台灣分公司

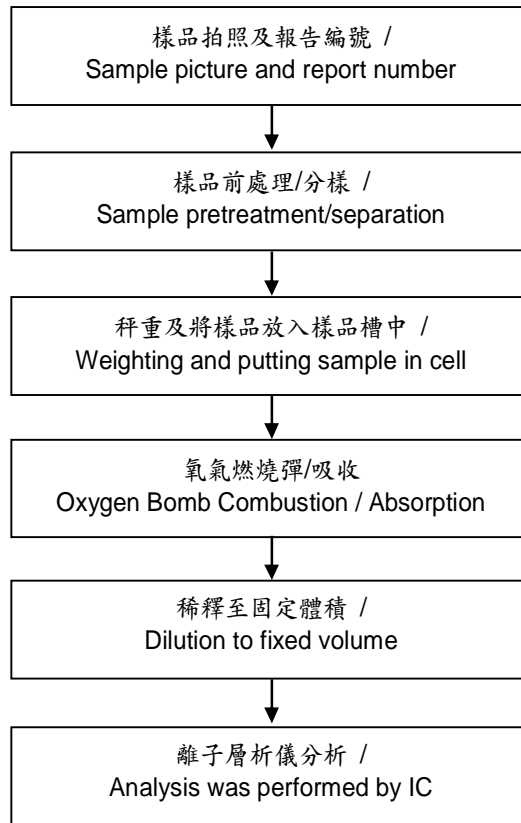
SPARKTEK TECHNOLOGY CO., LTD.(SAMOA) TAIWAN BRANCH

新北市中和區建康路79號2F

2F., NO.79, JIANKANG RD., ZHONGHE DIST., NEW TAIPEI CITY 235, TAIWAN (R.O.C.)

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

- 1) 測試人員：洪秀真/ Name of the person who made measurement: Jean Hung
- 2) 測試負責人：張伯睿/ Name of the person in charge of measurement: Ray Chang



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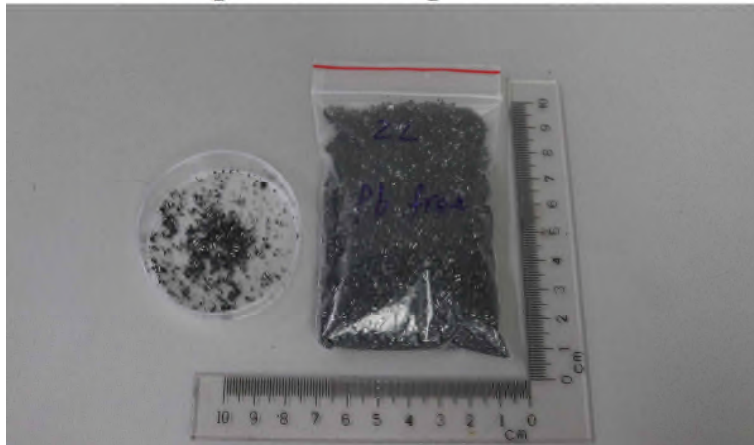
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(The tested sample / part is marked by an arrow if it's shown on the photo.)

KA/2017/C2377



** 報告結尾 (End of Report) **