

寶 號
CUSTOMER

統訊

HF
ROHS
COMPLIANT

承 認 書

SPECIFICATION FOR APPROVAL

品名
PRODUCT NAME K5B RH 3.5x6x0.8-T52

客戶料號 批號
CUSTOMER PART NO. **EVL.21814** SAMPLE NO.

日期
DATE. 2010/9/21

Customer Approved Status 客戶承認範圍

| FULLY APPROVED (全部承認) | PARTILLY APPROVED (部份承認) | REVISE APPROVED (修訂承認) |
|--------------------------|-----------------------------|---------------------------|
| | | |
| Drawn by | Checked by | Approved by |
| 許雅南 | 吳明珠 | 吳炳勳 |



承認書內容 CONTENTS

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| 製作 DRAWN BY: 許雅南 | 確認 CHECKED BY: 吳明珠 | 承認 APPROVED BY: 吳炳勳 |

修訂履歷 REVISION RESUME

| 日期 DATE | 版次 VERSION | 修訂目的 PURPOSE | 修訂內容概述 REVISION DESCRIPTION | 備註 REMARK |
|---------------------|---------------|-----------------------|--------------------------------|------------------------|
| 2010/9/21 | A | 首次送樣 | | |
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| 製作 DRAWN BY: 許雅甫 | | 確認 CHECKED BY: 吳明珠 | | 承認 APPROVED BY: 吳炳勳 |

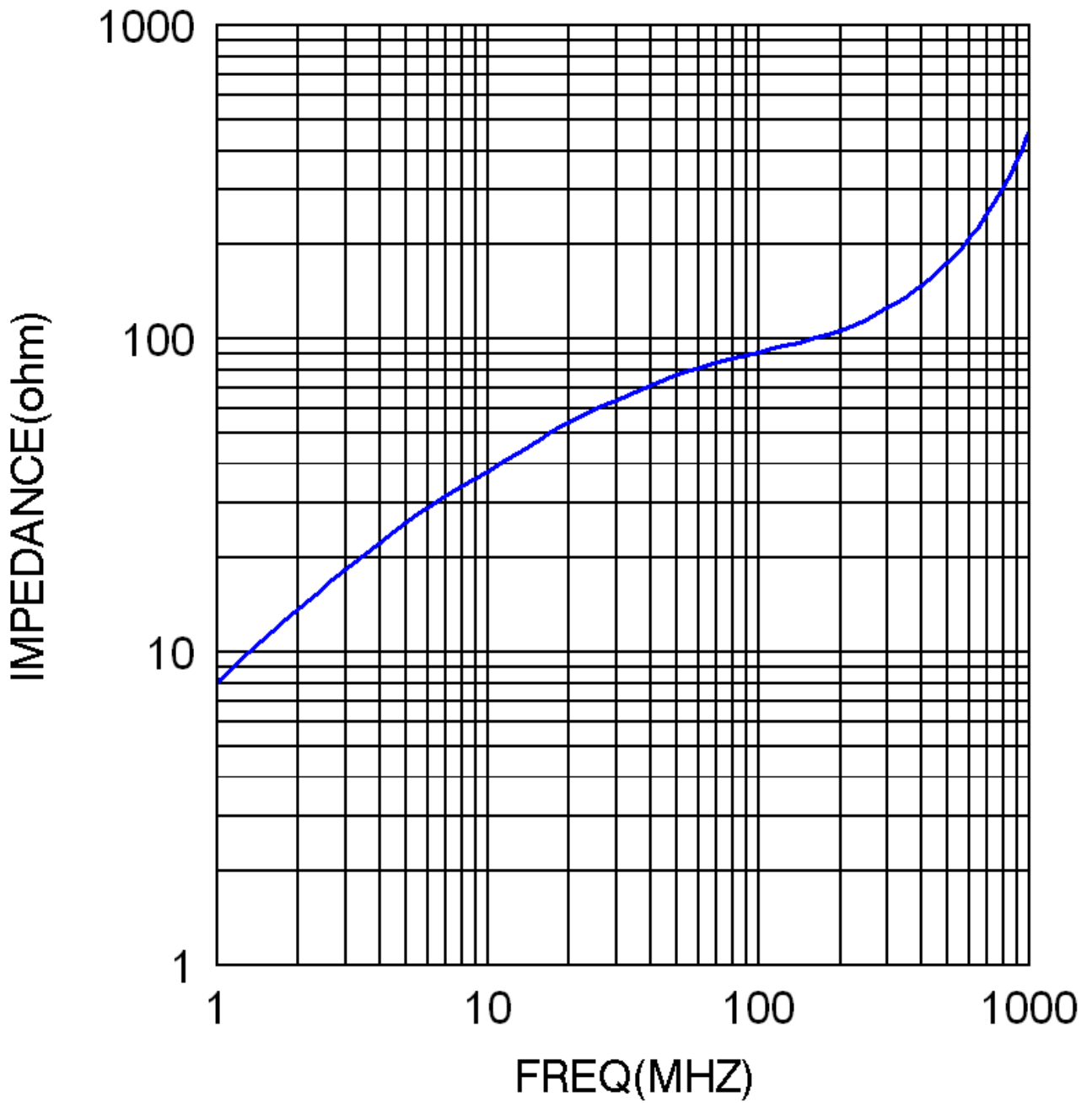
SPECIFICATION FOR APPROVAL

| | | | | |
|--|----------------------|---|----------|----|
| CUSTOMER: | 統訊 | CUST.P/N: EVL.21814 | | |
| ORDERING CODE: | K5B RH 3.5x6x0.8-T52 | K.C.P/N: PS0306IT | | |
| (1) SHAPE : | | A | 3.5±0.15 | mm |
| | | B | 6.0±0.3 | mm |
| | | C | 52.4±1.5 | mm |
| | | D | | mm |
| | | E | 5.0±0.5 | mm |
| | | F | | mm |
| | | G | | mm |
| | | | | |
| | | | | |
| | | | | |
| (2) ELECTRICAL REQUIREMENTS: | | (3) TEST CONDITIONS: | | |
| $Z_1 = 40 \text{ min OHM AT } 25 \text{ MHz}$ $Z_2 = 60 \text{ min OHM AT } 100 \text{ MHz}$ IDC: $\Delta T 40^\circ\text{C} : 12\text{A(max)}$ | | 1 IMPEDANCE ANALYZER: E4991A TEST FIXTURE: HP16092A 2.WIRE: $\Phi 0.65 \text{ T.C.W} * 63\text{mm } 1/2\text{TS}$ 3.DRAWING: | | |
| | | | | |
| (4) PACKING | | (5) APPEARANCE | | |
| <input type="checkbox"/> IN BULK <input type="checkbox"/> VACUUM <input type="checkbox"/> INSERTION PCS/BAG* BAGS/INNER BOX BOXES/CARTON = PCS | | Area of break $\leq 1/3$ terminal area Depth of break $\leq 1/2$ wall thickness | | |
| PCS/PLATE* PLATES/CARTON= PCS | | | | |
| PCS/TRAY* TRAYS/CARTON= PCS | | | | |
| 5000 PCS/REEL* 5 REELS/CARTON= 25000 PCS | | | | |
| (6) REMARK: | | Approved by 吳炳勳 Checked by 吳明珠 Drawn by 許雅南 2010/9/21 DWG.NO. 20109005A | | |

TEST DATA FOR PREPRODUCTION SAMPLES

| | | | | | | |
|------------------|----------------------------------|----------------|-----------------|----------------|---|--|
| CUSTOMER | 統訊 | | | CUST. P/N | EVL.21814 | |
| ORDERING CODE | K5B RH 3.5x6x0.8-T52 | | | K.C. P/N | PS0306IT | |
| TEMP. | 24 °C | RH | 69 % | DWG.NO. | 20109005A | |
| WIRE | 0.65x63mm T.C.W | WINDING | 1/2 Ts | Q'TY | 5PCS | |
| Test Instruments | | | | | | |
| Meas. Item. | Z (OHM) | Z (OHM) | A mm | B mm | | |
| Specification | 40 min | 60 min | 3.5±0.15 | 6.0±0.3 | | |
| Test Freq. | 25 MHZ | 100 MHZ | | | | |
| sample#1 | 60 | 91 | 3.45 | 6.01 | | |
| sample#2 | 58 | 93 | 3.49 | 6.00 | | |
| sample#3 | 60 | 92 | 3.47 | 6.02 | | |
| sample#4 | 60 | 90 | 3.50 | 6.01 | | |
| sample#5 | 59 | 91 | 3.49 | 6.01 | | |
| sample#6 | | | | | | |
| sample#7 | | | | | | |
| sample#8 | | | | | | |
| sample#9 | | | | | | |
| sample#10 | | | | | | |
| \bar{X} | 59.4 | 91.4 | 3.480 | 6.010 | | |
| R | 2 | 3 | 0.05 | 0.02 | | |
| REMARK: | | | | | Approved by: 吳炳勳 | |
| | | | | | Checked by: 吳明珠 | |
| | | | | | Drawn by: 許雅南 | |

K5B RH 3.5x6x0.8-T52



Test Report

No. : CE/2010/55608 Date : 2010/06/01 Page : 1 of 8

KING CORE ELECTRONICS INC.
NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, TAIWAN

CE/2010/55608

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : FERRITE CORE
Style/Item No. : K5B
Sample Receiving Date : 2010/05/27
Testing Period : 2010/05/27 TO 2010/06/01

=====
Test Result(s) : Please refer to next page(s).

Conclusion : Based upon the performed tests by submitted samples, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs comply with the limits of RoHS Directive 2002/95/EC and its subsequent amendments.



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Report

No. : CE/2010/55608 Date : 2010/06/01 Page : 2 of 8

KING CORE ELECTRONICS INC.
NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, TAIWAN

CE/2010/55608

Test Result(s)

PART NAME NO.1 : IRON-GRAY CORE

| Test Item (s): | Unit | Method | MDL | Result | Limit |
|--|-------|--|-----|--------|-------|
| | | | | NO.1 | |
| Cadmium (Cd) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | 100 |
| Lead (Pb) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | 1000 |
| Mercury (Hg) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | 1000 |
| Hexavalent Chromium Cr(VI) by alkaline extraction | mg/kg | With reference to IEC 62321: 2008 and performed by UV-VIS. | 2 | n.d. | 1000 |
| Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide | mg/kg | With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS. | 10 | n.d. | - |
| PFOA (CAS No.: 000335-67-1) | mg/kg | With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS. | 10 | n.d. | - |
| Halogen | | | | | |
| Halogen-Fluorine (F) (CAS No.: 014762-94-8) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. | - |
| Halogen-Chlorine (Cl) (CAS No.: 022537-15-1) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. | - |
| Halogen-Bromine (Br) (CAS No.: 010097-32-2) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. | - |
| Halogen-Iodine (I) (CAS No.: 014362-44-8) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. | - |

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KING CORE ELECTRONICS INC.

CE/2010/55608

NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, TAIWAN

| Test Item (s): | Unit | Method | MDL | Result | Limit |
|--------------------------|-------|---|-----|--------|-------|
| | | | | NO.1 | |
| Sum of PBBs | mg/kg | With reference to IEC 62321: 2008 and performed by GC/MS. | - | n.d. | 1000 |
| Monobromobiphenyl | | | 5 | n.d. | - |
| Dibromobiphenyl | | | 5 | n.d. | - |
| Tribromobiphenyl | | | 5 | n.d. | - |
| Tetrabromobiphenyl | | | 5 | n.d. | - |
| Pentabromobiphenyl | | | 5 | n.d. | - |
| Hexabromobiphenyl | | | 5 | n.d. | - |
| Heptabromobiphenyl | | | 5 | n.d. | - |
| Octabromobiphenyl | | | 5 | n.d. | - |
| Nonabromobiphenyl | | | 5 | n.d. | - |
| Decabromobiphenyl | | | 5 | n.d. | - |
| Sum of PBDEs | | | - | n.d. | 1000 |
| Monobromodiphenyl ether | | | 5 | n.d. | - |
| Dibromodiphenyl ether | | | 5 | n.d. | - |
| Tribromodiphenyl ether | | | 5 | n.d. | - |
| Tetrabromodiphenyl ether | | | 5 | n.d. | - |
| Pentabromodiphenyl ether | | | 5 | n.d. | - |
| Hexabromodiphenyl ether | | | 5 | n.d. | - |
| Heptabromodiphenyl ether | | | 5 | n.d. | - |
| Octabromodiphenyl ether | | | 5 | n.d. | - |
| Nonabromodiphenyl ether | | | 5 | n.d. | - |
| Decabromodiphenyl ether | | | 5 | n.d. | - |

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated

PFOS Reference Information : Directive 2006/122/EC

(1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.

(2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg/m² of the coated material.

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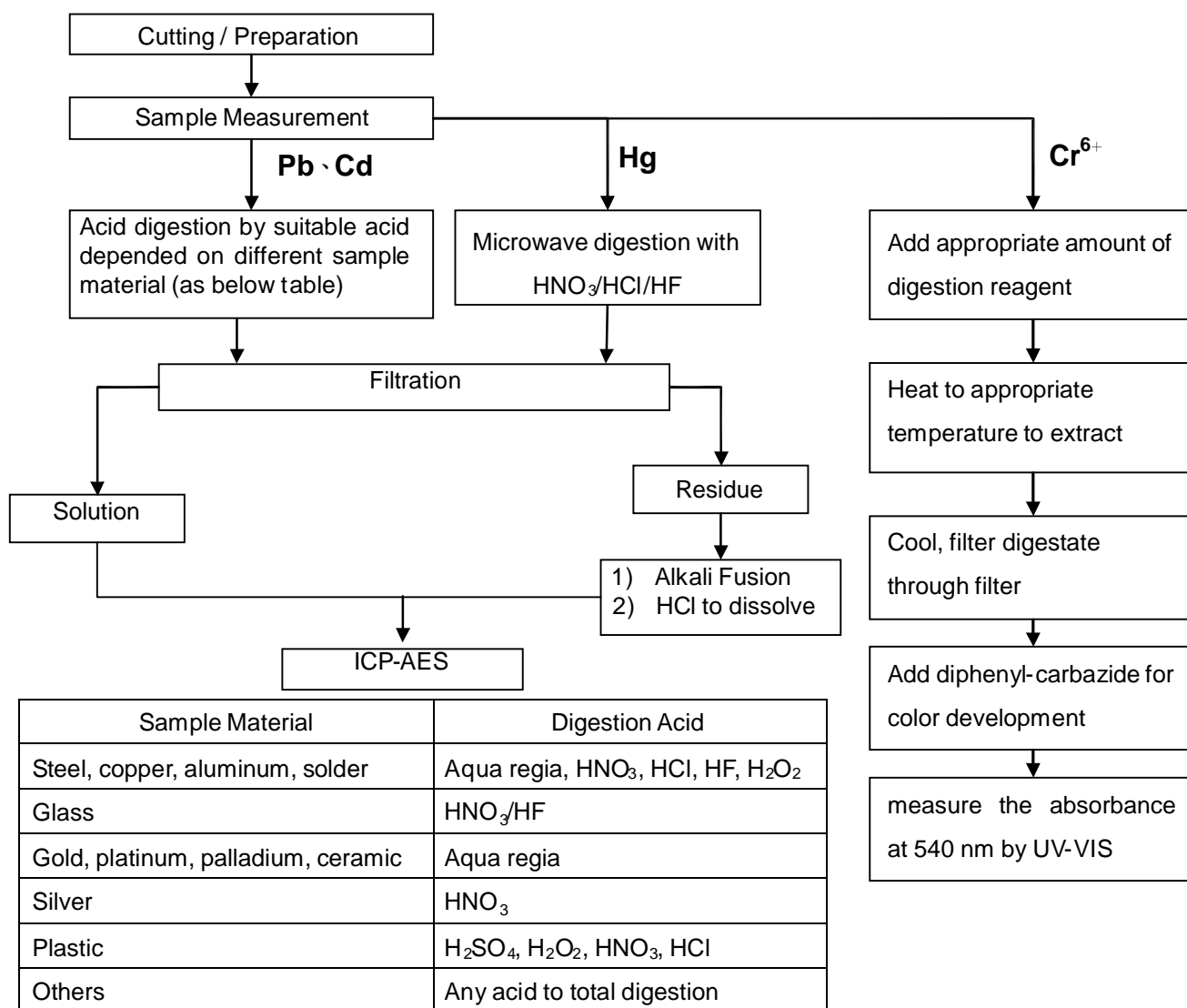
Test Report

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KING CORE ELECTRONICS INC.
NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, TAIWAN

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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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Test Report

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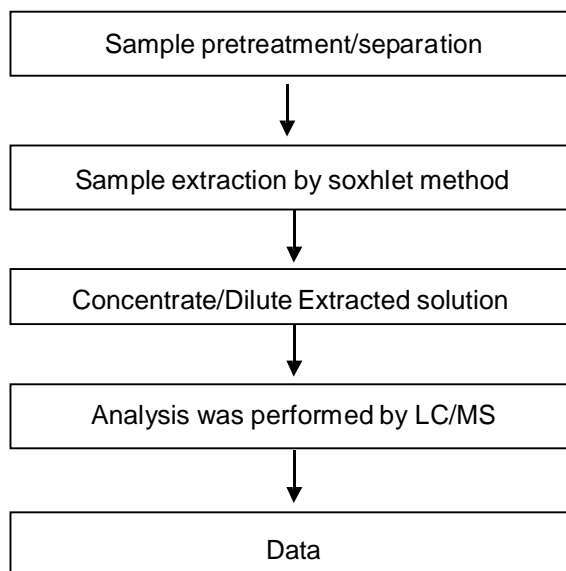
KING CORE ELECTRONICS INC.
NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, TAIWAN

CE/2010/55608

Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: PFOS/PFOA、Benzotriazole



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Test Report

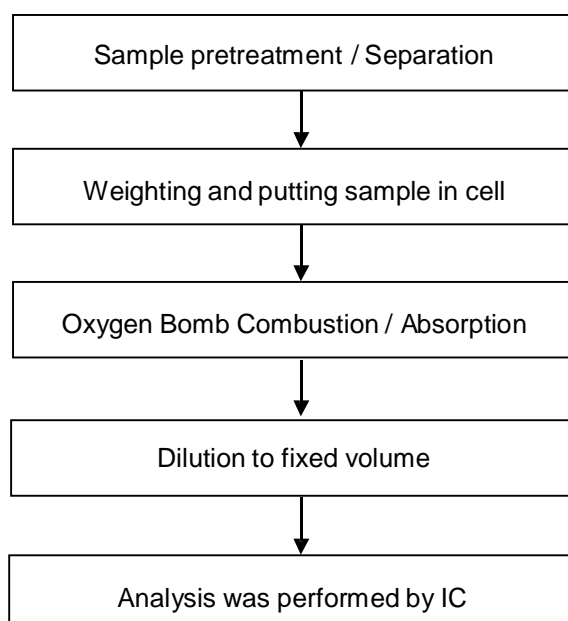
No. : CE/2010/55608 Date : 2010/06/01 Page : 6 of 8

KING CORE ELECTRONICS INC.
NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, TAIWAN

CE/2010/55608

Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang



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KING CORE ELECTRONICS INC.
NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, TAIWAN

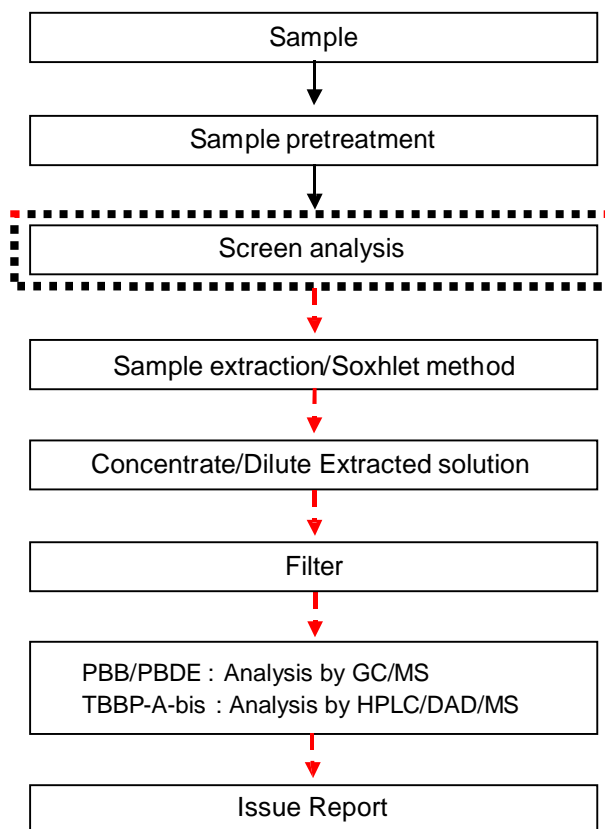
CE/2010/55608

Analytical flow chart

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Troy Chang

■ Test Items: PBB/PBDE, TBBP-A-bis

First testing process —> Optional screen process Confirmation process - ->



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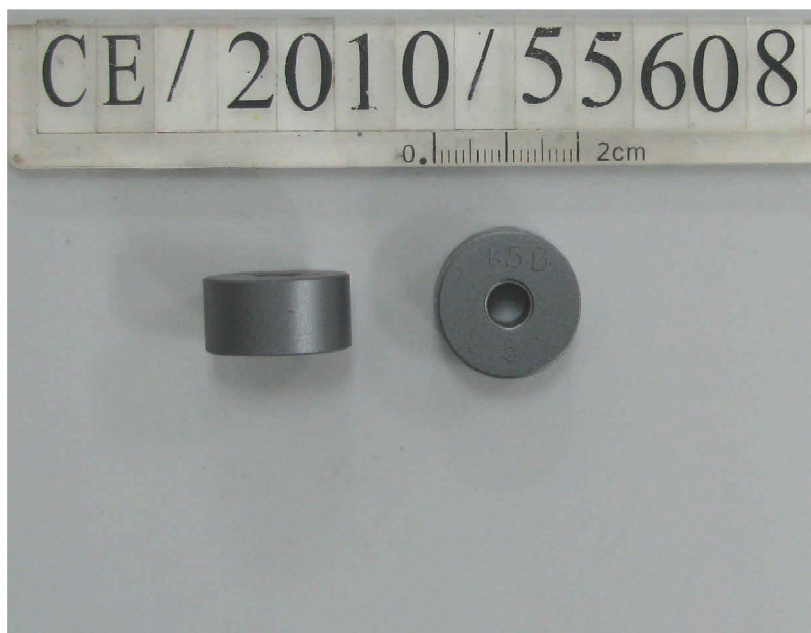
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KING CORE ELECTRONICS INC.
NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, TAIWAN

CE/2010/55608



** End of Report **

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測試報告

Test Report

號碼(No.) : CE/2010/14009 日期(Date) : 2010/01/27 頁數(Page) : 1 of 10

惠豐特殊電線股份有限公司
WELL FORE SPECIAL WIRE CORPORATION
桃園縣中壢市自強七路10號
10, TZU-CHIANG 7RD., CHUNG-LI CITY, TAOYUAN

CE/2010/14009

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):

樣品名稱(Sample Description) : 鍍錫銅線 (HOT DIPPED Tin-COATED COPPER WIRE)
收件日期(Sample Receiving) : 2010/01/20
測試期間(Testing Period) : 2010/01/20 TO 2010/01/27

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

結論(Conclusion) : 根據客戶所提供的樣品，其鎘、鉛、汞及六價鉻的測試結果符合 RoHS(2002/95/EC)及其修定指令之要求 (Based upon the performed tests by submitted samples, the test results of Cadmium, Lead, Mercury and Hexavalent Chromium Cr(VI) comply with the limits of RoHS Directive 2002/95/EC and its subsequent amendments).



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試報告 Test Report

號碼(No.) : CE/2010/14009 日期(Date) : 2010/01/27 頁數(Page) : 2 of 10

惠豐特殊電線股份有限公司
WELL FORE SPECIAL WIRE CORPORATION
桃園縣中壢市自強七路10號
10, TZU-CHIANG 7RD., CHUNG-LI CITY, TAOYUAN

CE/2010/14009

測試結果(Test Results)

測試部位(PART NAME) NO.1 : 銀色金屬線鍍層 (PLATING LAYER OF SILVER COLORED METAL WIRE)
測試部位(PART NAME) NO.2 : 銀色金屬線底材 (BASE MATERIAL OF SILVER COLORED METAL WIRE)
測試部位(PART NAME) NO.3 : 銀色金屬線 (含鍍層) (SILVER COLORED METAL WIRE (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) | | | 法規限 值 (Limit) |
|--|--------------|--|---|-------------|----------|------|---------------------|
| | | | | NO.1 | NO.2 | NO.3 | |
| 鎘 / Cadmium (Cd) | mg/kg | 參考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. | n.d. | --- | 100 |
| 鉛 / Lead (Pb) | mg/kg | 參考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 | 56 | n.d. | --- | 1000 |
| 汞 / Mercury (Hg) | mg/kg | 參考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. | n.d. | --- | 1000 |
| 六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction | ** | 參考IEC 62321: 2008方法, 以Spot test / boiling water extraction方法檢測。 / With reference to IEC 62321: 2008 and performed by Spot test / boiling water extraction Method. (See Note 5) | 0.02 mg/kg with 50 cm ² surface area | Negative | Negative | --- | # |

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測試報告

Test Report

號碼(No.) : CE/2010/14009 日期(Date) : 2010/01/27 頁數(Page) : 3 of 10

惠豐特殊電線股份有限公司

CE/2010/14009

WELL FORE SPECIAL WIRE CORPORATION

桃園縣中壢市自強七路10號

10, TZU-CHIANG 7RD., CHUNG-LI CITY, TAOYUAN

| 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) | | | 法規限 值 (Limit) |
|--|--------------|---|----------------------|-------------|------|------|---------------------|
| | | | | NO.1 | NO.2 | NO.3 | |
| 全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS) PFOS - Acid PFOS - Metal Salt PFOS - Amide | mg/kg | 參考US EPA 3540C: 1996方法, 以液相層析質譜儀檢測全氟辛烷 磺酸含量. / With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS. | 10 | --- | --- | n.d. | - |
| 全氟辛酸(鉍) / PFOA (CAS No.: 000335-67-1) | mg/kg | 參考US EPA 3540C: 1996方法, 以液相層析質譜儀檢測全氟辛酸 (鉍)含量. / With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS. | 10 | --- | --- | n.d. | - |
| 鹵素 / Halogen | | | | | | | |
| 鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8) | mg/kg | 參考BS EN 14582:2007, 以離子 層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | --- | --- | n.d. | - |
| 鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1) | mg/kg | 參考BS EN 14582:2007, 以離子 層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | --- | --- | n.d. | - |
| 鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2) | mg/kg | 參考BS EN 14582:2007, 以離子 層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | --- | --- | n.d. | - |
| 鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 014362-44-8) | mg/kg | 參考BS EN 14582:2007, 以離子 層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | --- | --- | n.d. | - |

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測試報告 Test Report

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惠豐特殊電線股份有限公司
WELL FORE SPECIAL WIRE CORPORATION
桃園縣中壢市自強七路10號
10, TZU-CHIANG 7RD., CHUNG-LI CITY, TAOYUAN

CE/2010/14009

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. Spot-test:
Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),
Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);
The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.
(當該測項無法確認時, 測試樣品可藉由boiling-water-extraction測試方法進一步確認)
Boiling-water-extraction:
Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),
Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);
the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
該溶液濃度 \geq 0.02 mg/kg with 50 cm² (sample surface area)
6. # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as not comply with RoHS requirement. (Positive表示測試區域之六價鉻不符合RoHS要求)
Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as comply with RoHS requirement. (Negative表示測試區域之六價鉻符合RoHS要求)
7. "---" = Not Conducted (未測項目)
8. ** = Qualitative analysis (No Unit) 定性分析(無單位)

PFOS參考資訊(Reference Information) : 指令 2006/122/EC (Directive 2006/122/EC)

- (1) 該物質不可置於市場上或使用於特殊物質或配置成分重量濃度等於或大於0.005%。
(May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.
- (2) 該物質不可置於市場上的半成品或商品或其物件; 假若零件上明顯地具有PFOS並參照結構上及微細構造上計算 PFOS重量濃度等於或大於0.1%, 而紡織品或其他覆蓋物質, 如果PFOS在覆蓋物質中含量等於或大於1 μ g/m². (May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1 μ g/m² of the coated material.)

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測試報告 Test Report

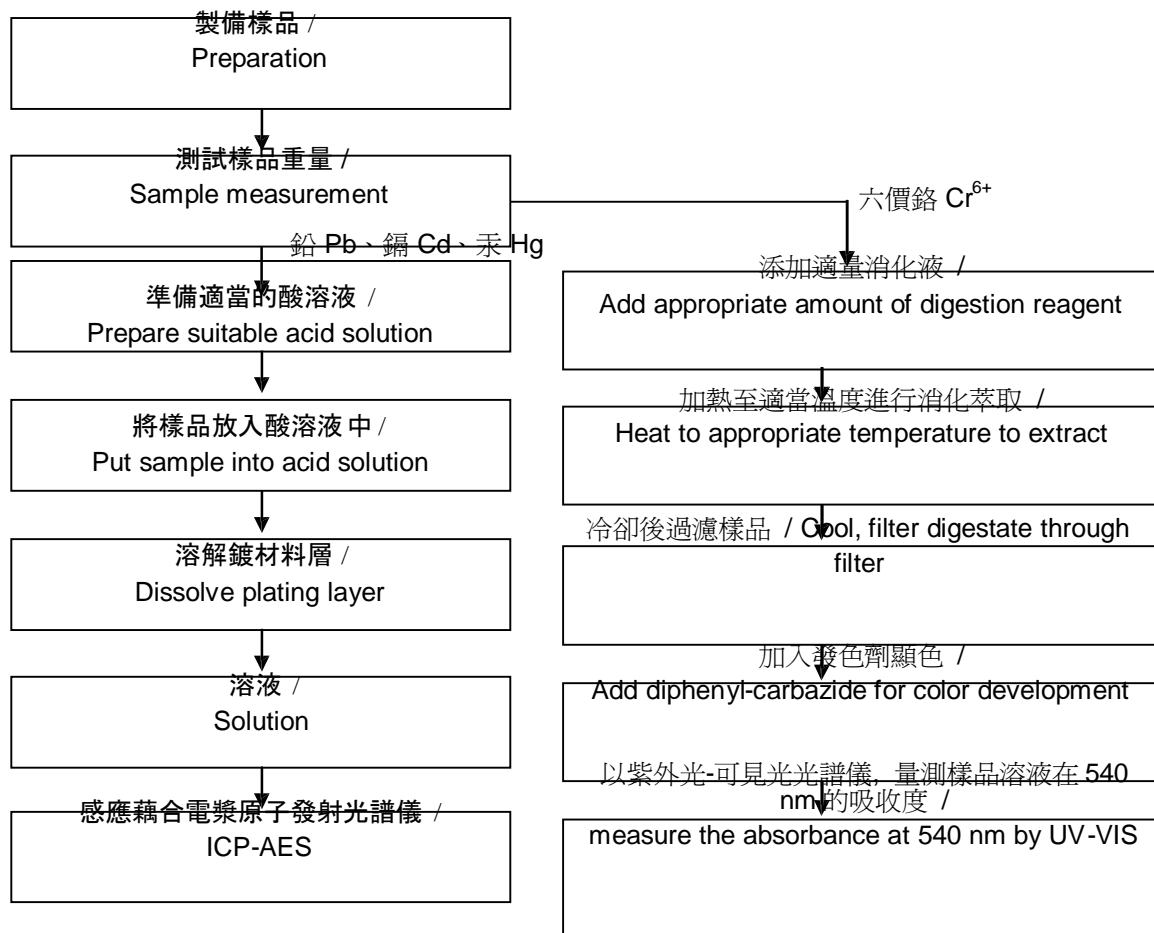
號碼(No.) : CE/2010/14009 日期(Date) : 2010/01/27 頁數(Page) : 5 of 10

惠豐特殊電線股份有限公司
WELL FORE SPECIAL WIRE CORPORATION
桃園縣中壢市自強七路10號
10, TZU-CHIANG 7RD., CHUNG-LI CITY, TAOYUAN

CE/2010/14009

- NO.1
- 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：楊登偉 / Name of the person who made measurement: Climbgreat Yang
 - 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

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



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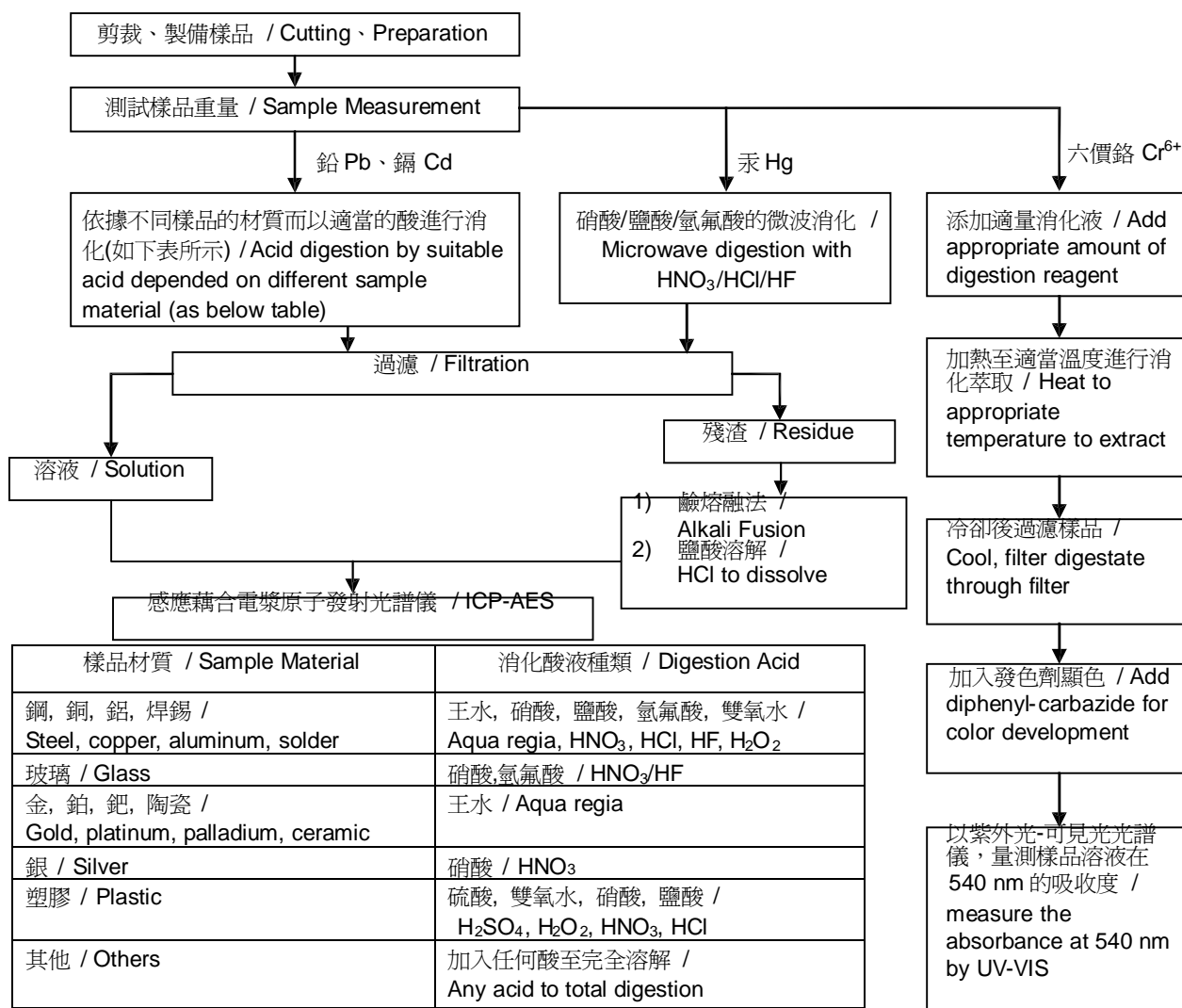
測試報告 Test Report

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惠豐特殊電線股份有限公司
WELL FORE SPECIAL WIRE CORPORATION
桃園縣中壢市自強七路10號
10, TZU-CHIANG 7RD., CHUNG-LI CITY, TAOYUAN

CE/2010/14009

- NO.2 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：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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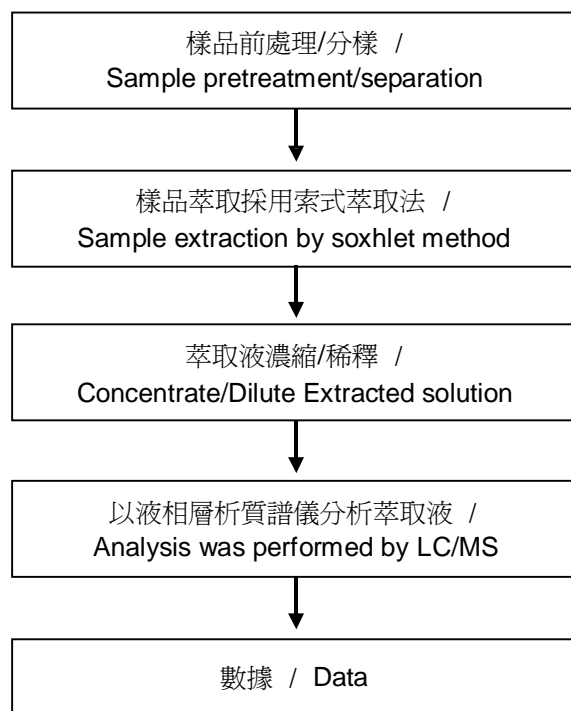
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WELL FORE SPECIAL WIRE CORPORATION
桃園縣中壢市自強七路10號
10, TZU-CHIANG 7RD., CHUNG-LI CITY, TAOYUAN

CE/2010/14009

索式萃取(LC/MS)分析流程圖 /

Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) 測試人員：傅莉雅 / Name of the person who made measurement: Lydia Fu
 - 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen
- 測試項目(Test Items): 全氟辛烷磺酸/全氟辛酸(鉍)、苯並三唑類化合物 /
PFOS/PFOA、Benzotriazole



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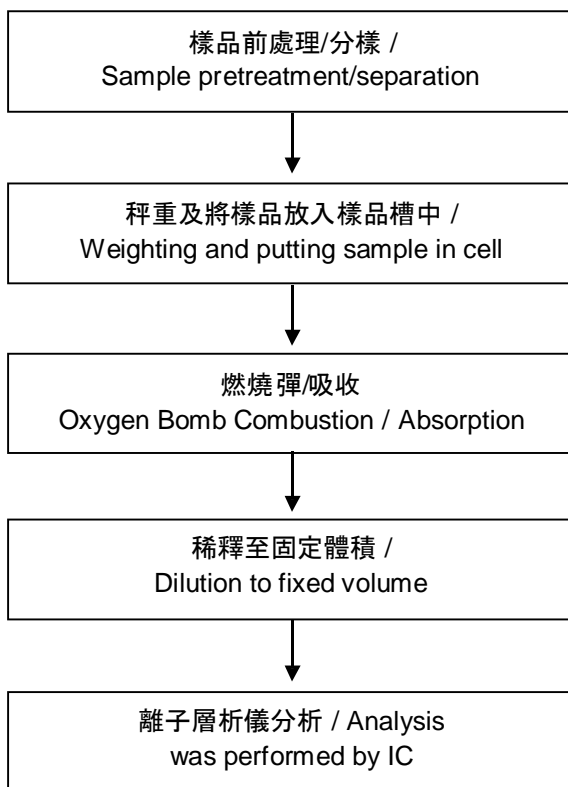
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WELL FORE SPECIAL WIRE CORPORATION
桃園縣中壢市自強七路10號
10, TZU-CHIANG 7RD., CHUNG-LI CITY, TAOYUAN

CE/2010/14009

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

- 1) 測試人員：陳立倫 / Name of the person who made measurement: Alan Chen
- 2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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WELL FORE SPECIAL WIRE CORPORATION
桃園縣中壢市自強七路10號
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CE/2010/14009



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CE/2010/14009



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Test Report

No. : CE/2010/43052A Date : 2010/04/16 Page : 1 of 7

SHAW HUOW ENTERPRISE CO., LTD.
NO. 39-1, WUSYUN ST., ANLE DISTRICT, KEELUNG CITY, TAIWAN

CE/2010/43052A

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : EPOXY RESIN ADHESIVE S-7 SERIES
Style/Item No. : S-7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900@1~10, AB, AG, FHL
Sample Receiving Date : 2010/04/01 AND 2010/4/15
Testing Period : 2010/04/01 TO 2010/04/09 AND 2010/4/15 TO 2010/04/16

=====
Test Result(s) : Please refer to next page(s).

Conclusion : Based upon the performed tests by submitted samples, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs comply with the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

* This report is combined with reports of CE/2010/40089 and CE/2010/43052 *



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Report

No. : CE/2010/43052A Date : 2010/04/16 Page : 2 of 7

SHAW HUOW ENTERPRISE CO., LTD.
NO. 39-1, WUSYUN ST., ANLE DISTRICT, KEELUNG CITY, TAIWAN

CE/2010/43052A

Test Result(s)

PART NAME NO.1 : BLACK PASTE (CE/2010/40089)
PART NAME NO.2 : BLACK PASTE (CE/2010/43052)

| Test Item (s): | Unit | Method | MDL | Result | | Limit |
|---|-------|---|-----|--------|------|-------|
| | | | | NO.1 | NO.2 | |
| Cadmium (Cd) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | --- | 100 |
| Lead (Pb) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | --- | 1000 |
| Mercury (Hg) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | --- | 1000 |
| Hexavalent Chromium Cr(VI) by alkaline extraction | mg/kg | With reference to IEC 62321: 2008 and performed by UV-VIS. | 2 | n.d. | --- | 1000 |
| Sum of PBBs | mg/kg | With reference to IEC 62321: 2008 and performed by GC/MS. | - | n.d. | --- | 1000 |
| Monobromobiphenyl | | | 5 | n.d. | --- | - |
| Dibromobiphenyl | | | 5 | n.d. | --- | - |
| Tribromobiphenyl | | | 5 | n.d. | --- | - |
| Tetrabromobiphenyl | | | 5 | n.d. | --- | - |
| Pentabromobiphenyl | | | 5 | n.d. | --- | - |
| Hexabromobiphenyl | | | 5 | n.d. | --- | - |
| Heptabromobiphenyl | | | 5 | n.d. | --- | - |
| Octabromobiphenyl | | | 5 | n.d. | --- | - |
| Nonabromobiphenyl | | | 5 | n.d. | --- | - |
| Decabromobiphenyl | | | 5 | n.d. | --- | - |
| Sum of PBDEs | | | - | n.d. | --- | 1000 |
| Monobromodiphenyl ether | | | 5 | n.d. | --- | - |
| Dibromodiphenyl ether | | | 5 | n.d. | --- | - |
| Tribromodiphenyl ether | | | 5 | n.d. | --- | - |
| Tetrabromodiphenyl ether | | | 5 | n.d. | --- | - |
| Pentabromodiphenyl ether | | | 5 | n.d. | --- | - |
| Hexabromodiphenyl ether | 5 | n.d. | --- | - | | |
| Heptabromodiphenyl ether | 5 | n.d. | --- | - | | |
| Octabromodiphenyl ether | 5 | n.d. | --- | - | | |
| Nonabromodiphenyl ether | 5 | n.d. | --- | - | | |
| Decabromodiphenyl ether | 5 | n.d. | --- | - | | |

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SHAW HUOW ENTERPRISE CO., LTD.
NO. 39-1, WUSYUN ST., ANLE DISTRICT, KEELUNG CITY, TAIWAN

CE/2010/43052A

| Test Item (s): | Unit | Method | MDL | Result | | Limit |
|---|-------|--|-----|--------|------|-------|
| | | | | NO.1 | NO.2 | |
| Halogen | | | | | | |
| Halogen-Fluorine (F) (CAS No.: 014762-94-8) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. | --- | - |
| Halogen-Chlorine (Cl) (CAS No.: 022537-15-1) | | | 50 | --- | 850 | - |
| Halogen-Bromine (Br) (CAS No.: 010097-32-2) | | | 50 | n.d. | --- | - |
| Halogen-Iodine (I) (CAS No.: 014362-44-8) | | | 50 | n.d. | --- | - |

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. "---" = Not Conducted

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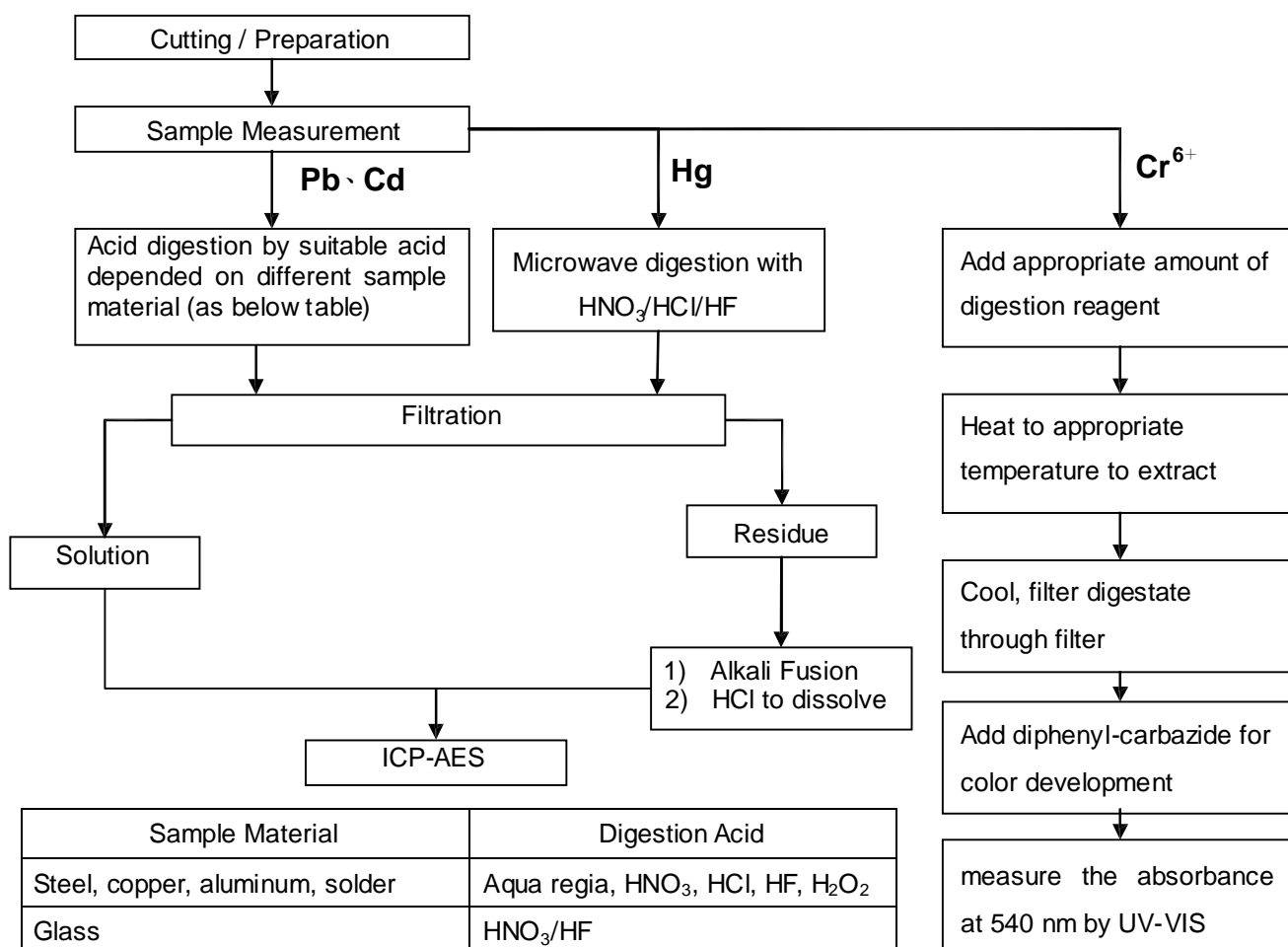
Test Report

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SHAW HUOW ENTERPRISE CO., LTD.
NO. 39-1, WUSYUN ST., ANLE DISTRICT, KEELUNG CITY, TAIWAN

CE/2010/43052A

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



| Sample Material | Digestion Acid |
|------------------------------------|---|
| Steel, copper, aluminum, solder | Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂ |
| Glass | HNO ₃ /HF |
| Gold, platinum, palladium, ceramic | Aqua regia |
| Silver | HNO ₃ |
| Plastic | H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl |
| Others | Any acid to total digestion |

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Test Report

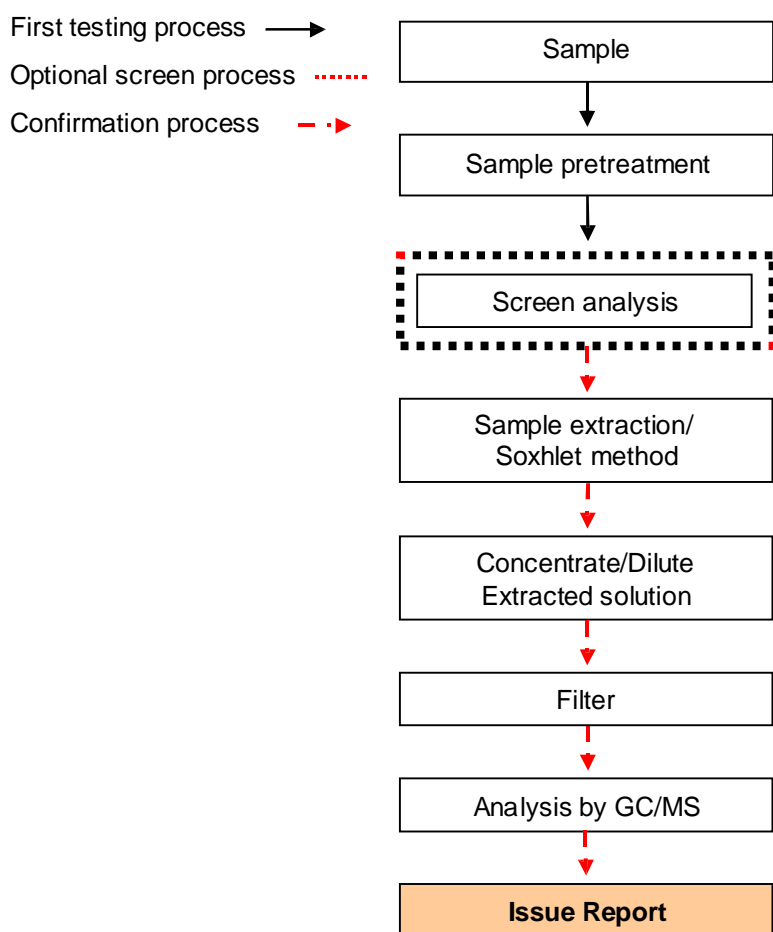
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SHAW HUOW ENTERPRISE CO., LTD.
NO. 39-1, WUSYUN ST., ANLE DISTRICT, KEELUNG CITY, TAIWAN

CE/2010/43052A

PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen



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Test Report

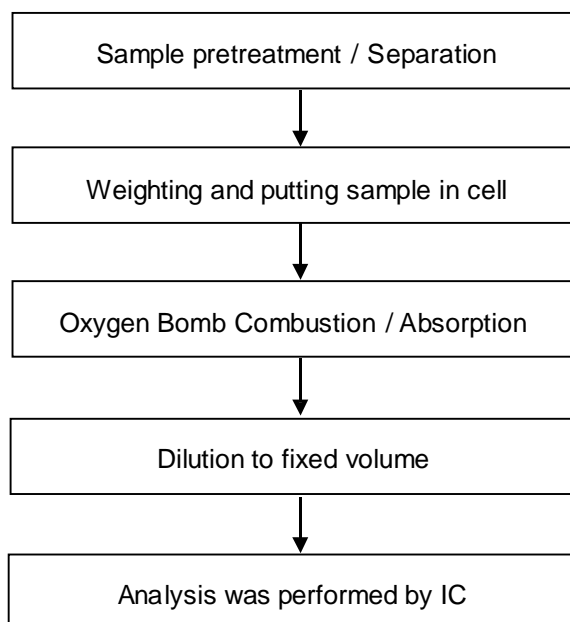
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SHAW HUOW ENTERPRISE CO., LTD.
NO. 39-1, WUSYUN ST., ANLE DISTRICT, KEELUNG CITY, TAIWAN

CE/2010/43052A

Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang



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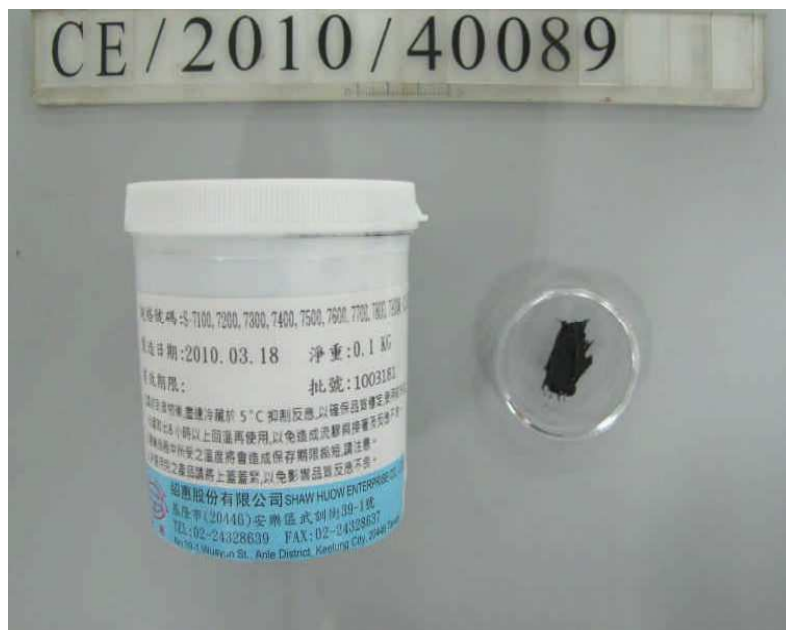
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SHAW HUOW ENTERPRISE CO., LTD.
NO. 39-1, WUSYUN ST., ANLE DISTRICT, KEELUNG CITY, TAIWAN

CE/2010/43052A

NO.1



NO.2



** End of Report **

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SHAW HUOW ENTERPRISE CO., LTD.
NO. 39-1, WUSYUN ST., ANLE DISTRICT, KEELUNG CITY, TAIWAN

CE/2010/43052

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : EPOXY RESIN ADHESIVE S-7 SERIES
Style/Item No. : S-7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900@1~10,
AB, AG, FHL
Sample Receiving Date : 2010/4/15
Testing Period : 2010/4/15 TO 2010/04/16

=====

Test Result(s) : Please refer to next page(s).

Shin-Jyh Chen
Shin-jyh Chen / Asst. Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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SHAW HUOW ENTERPRISE CO., LTD.
NO. 39-1, WUSYUN ST., ANLE DISTRICT, KEELUNG CITY, TAIWAN

CE/2010/43052

Test Result(s)

PART NAME NO.1 : BLACK PASTE

| Test Item (s): | Unit | Method | MDL | Result |
|--|-------|---|-----|--------|
| | | | | No.1 |
| Halogen-Chlorine (Cl) (CAS No.: 022537-15-1) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | 850 |

- Note :
1. mg/kg = ppm; 0.1wt% = 1000ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit

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Test Report

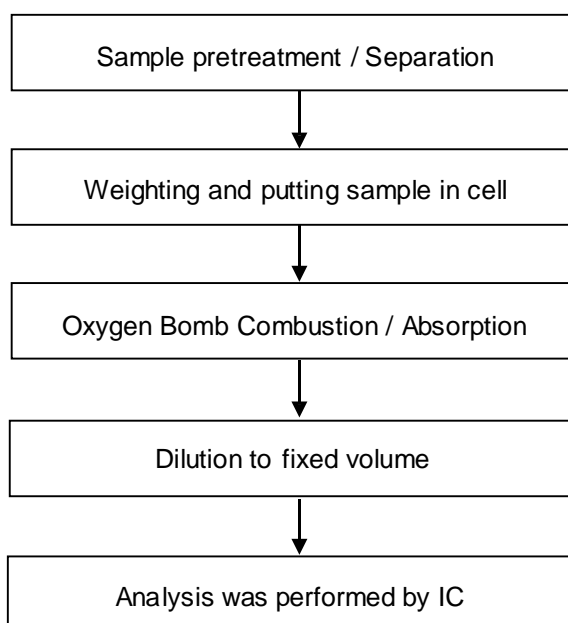
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SHAW HUOW ENTERPRISE CO., LTD.
NO. 39-1, WUSYUN ST., ANLE DISTRICT, KEELUNG CITY, TAIWAN

CE/2010/43052

Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang



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SHAW HUOW ENTERPRISE CO., LTD.
NO. 39-1, WUSYUN ST., ANLE DISTRICT, KEELUNG CITY, TAIWAN

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