

SGS REPORT

SUBJECT: Survey for Environmental-Related Substances

Attachment:

Survey Form on Environmental Impact Substances Contained in Parts and Materials
SGS TEST REPORT for MHF Plug connector

This is applied for the following products: Please refer to the attached SGS REPORT.

| Component name | SGS Report No. | I-PEX Part Number |
|-----------------|-----------------|--------------------------------|
| HOUSING (BLACK) | CE_2010_23852 | 20278-112R-13 20278-112R-32 |
| CONTACT | CE_2010_23733 | |
| GROUND CONTACT | CE_2010_23732 * | |

| Component name | SGS Report No. | I-PEX Part Number |
|-----------------|-----------------|---|
| HOUSING (WHITE) | CE_2010_23853 | 20278-112R-08 20278-112R-18 20351-112R-37 |
| CONTACT | CE_2010_23733 | |
| GROUND CONTACT | CE_2010_23732 * | |

Remark:* The SGS Test Report can be applied to a component.

Test Report

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



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

| | | |
|-----------------------|---|-------------------------|
| Sample Description | : | MHF PLUG HOUSING |
| Style/Item No. | : | 1844-011-01 |
| Sample Receiving Date | : | 2010/2/22 |
| Testing Period | : | 2010/2/22 TO 2010/03/01 |

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


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

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Test Result(s)

PART NAME NO.1 : BLACK PLASTIC

| Test Item (s): | Unit | Method | MDL | Result |
|---|-------|---|-----|--------|
| | | | | No.1 |
| Cadmium (Cd) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Lead (Pb) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Mercury (Hg) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Hexavalent Chromium Cr(VI) by alkaline extraction | mg/kg | With reference to IEC 62321: 2008 and performed by UV-VIS. | 2 | n.d. |
| Antimony (Sb) | mg/kg | With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES. | 2 | n.d. |
| Antimony trioxide (Sb ₂ O ₃)*** (CAS No.: 001309-64-4) | mg/kg | With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES. | - | n.d. |
| Phosphorus (P) | mg/kg | With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES. | 2 | 19300 |
| Tetrabromobisphenol A (TBBP-A) (CAS No.: 000079-94-7) | mg/kg | With reference to DIN 53313. Analysis was performed by GC/MS. | 10 | n.d. |
| Hexabromocyclododecane (HBCDD) (CAS No.: 025637-99-4) | mg/kg | With reference to US EPA 3540C: 1996 method. Analysis was performed by GC/MS. | 5 | n.d. |
| 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. |

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I-PEX JP CO., LTD. TAIWAN BRANCH

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



| Test Item (s): | Unit | Method | MDL | Result |
|--|-------|---|-----|--------|
| | | | | No.1 |
| Halogen | | | | |
| Halogen-Fluorine (F) (CAS No.: 014762-94-8) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | 1120 |
| 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. |
| Sum of PBBs | mg/kg | With reference to IEC 62321: 2008 and performed by GC/MS. | - | n.d. |
| 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. |
| 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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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



- Note :
1. mg/kg = ppm ; 0.1wt% = 1000ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. " - " = Not Regulated
 5. ***: The substance was calculated by the test results of Tributyl Tin, Triphenyl Tin or element (Ex. Antimony 、Beryllium 、Silicon 、Zinc or Phosphorus respectively). The MDL is evaluated for Tributyl Tin, Triphenyl Tin or element (Ex. Antimony 、Beryllium 、Silicon 、Zinc or Phosphorus respectively.)

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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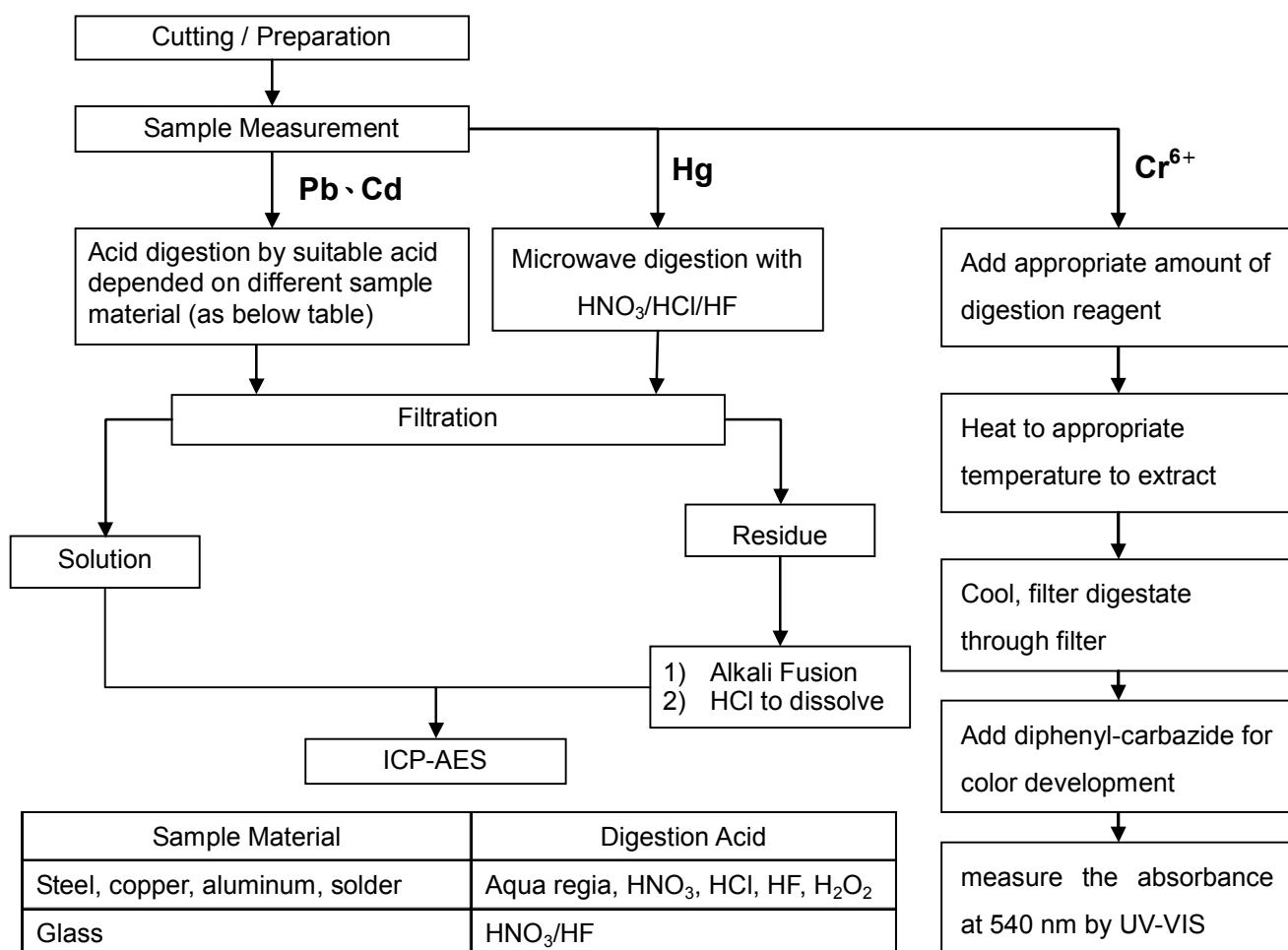
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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



- 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

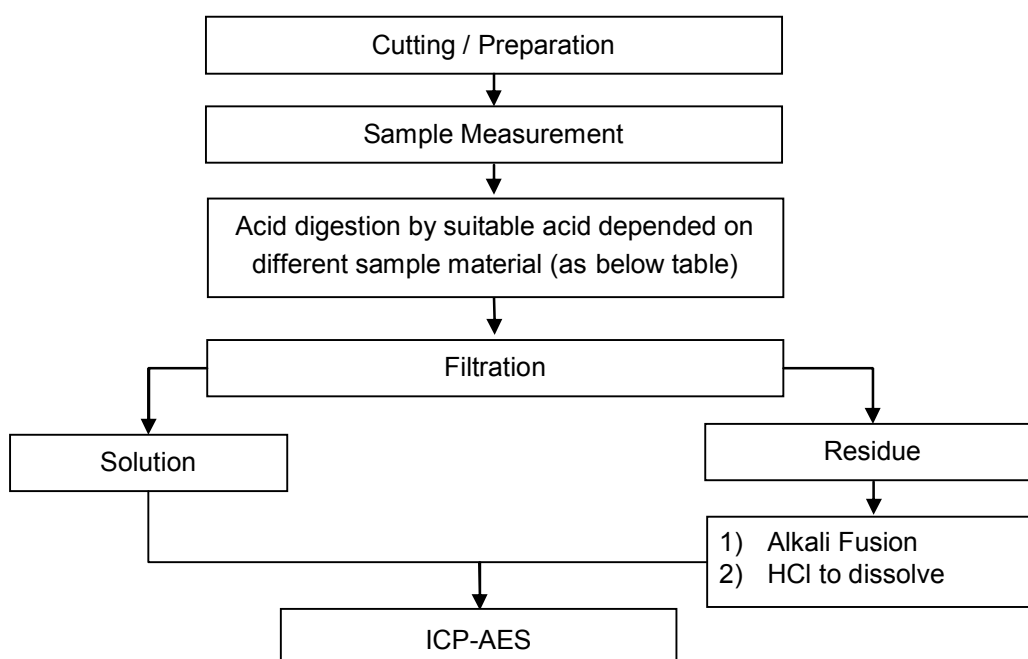
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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



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

Flow Chart of digestion for the elements analysis performed by ICP-AES



| | |
|------------------------------------|---|
| 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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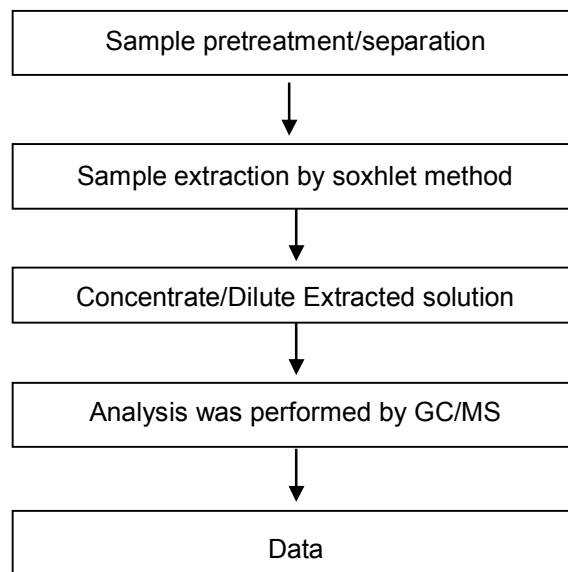
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Analytical flow chart of Soxhlet extraction (GC/MS) procedure

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

■ Test Items: Phthalate 、Benzotriazole 、HBCDD



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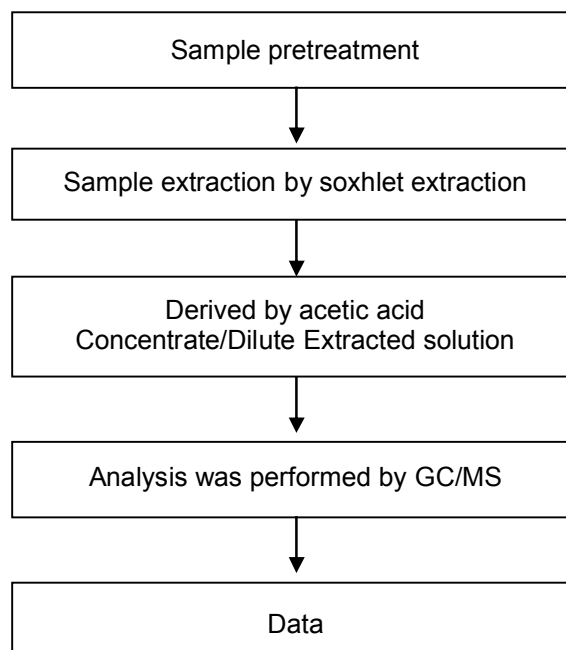
I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



analytical flow chart

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

■ Test Items: TBBP-A 、 Bisphenol A



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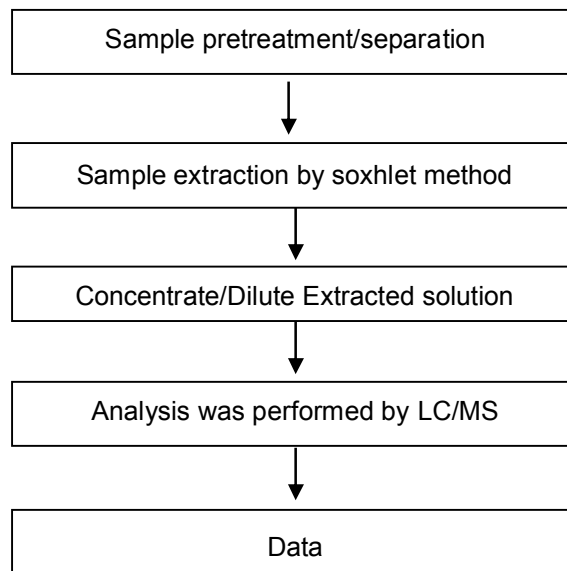
I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



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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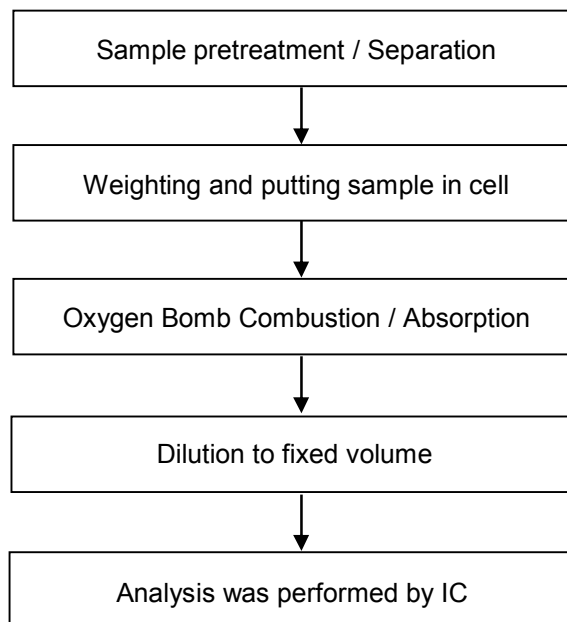
I-PEX JP CO., LTD. TAIWAN BRANCH

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



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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Test Report

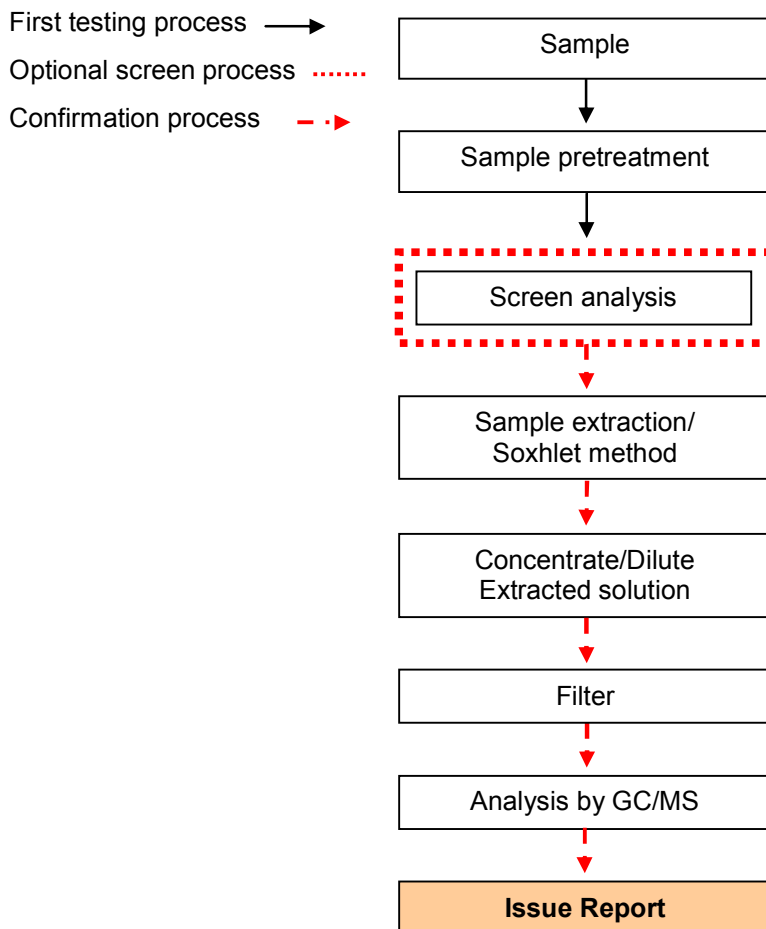
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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



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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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



**** End of Report ****

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Test Report

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



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

| | | |
|-----------------------|---|-------------------------|
| Sample Description | : | MHF PLUG HOUSING |
| Style/Item No. | : | 1844-012-01 |
| Sample Receiving Date | : | 2010/2/22 |
| Testing Period | : | 2010/2/22 TO 2010/03/01 |

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


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

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPANTest Result(s)

PART NAME NO.1 : WHITE PLASTIC

| Test Item (s): | Unit | Method | MDL | Result |
|---|-------|---|-----|--------|
| | | | | No.1 |
| Cadmium (Cd) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Lead (Pb) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Mercury (Hg) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Hexavalent Chromium Cr(VI) by alkaline extraction | mg/kg | With reference to IEC 62321: 2008 and performed by UV-VIS. | 2 | n.d. |
| Antimony (Sb) | mg/kg | With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES. | 2 | 14 |
| Antimony trioxide (Sb ₂ O ₃)*** (CAS No.: 001309-64-4) | mg/kg | With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES. | - | 17 |
| Phosphorus (P) | mg/kg | With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES. | 2 | 22800 |
| Tetrabromobisphenol A (TBBP-A) (CAS No.: 000079-94-7) | mg/kg | With reference to DIN 53313. Analysis was performed by GC/MS. | 10 | n.d. |
| Hexabromocyclododecane (HBCDD) (CAS No.: 025637-99-4) | mg/kg | With reference to US EPA 3540C: 1996 method. Analysis was performed by GC/MS. | 5 | n.d. |
| 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. |

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Test Report

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I-PEX JP CO., LTD. TAIWAN BRANCH

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



| Test Item (s): | Unit | Method | MDL | Result |
|--|-------|---|-----|--------|
| | | | | No.1 |
| Halogen | | | | |
| Halogen-Fluorine (F) (CAS No.: 014762-94-8) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | 1200 |
| 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. |
| Sum of PBBs | mg/kg | With reference to IEC 62321: 2008 and performed by GC/MS. | - | n.d. |
| 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. |
| 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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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



- Note :
1. mg/kg = ppm ; 0.1wt% = 1000ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. " - " = Not Regulated
 5. ***: The substance was calculated by the test results of Tributyl Tin, Triphenyl Tin or element (Ex. Antimony 、Beryllium 、Silicon 、Zinc or Phosphorus respectively). The MDL is evaluated for Tributyl Tin, Triphenyl Tin or element (Ex. Antimony 、Beryllium 、Silicon 、Zinc or Phosphorus respectively.)

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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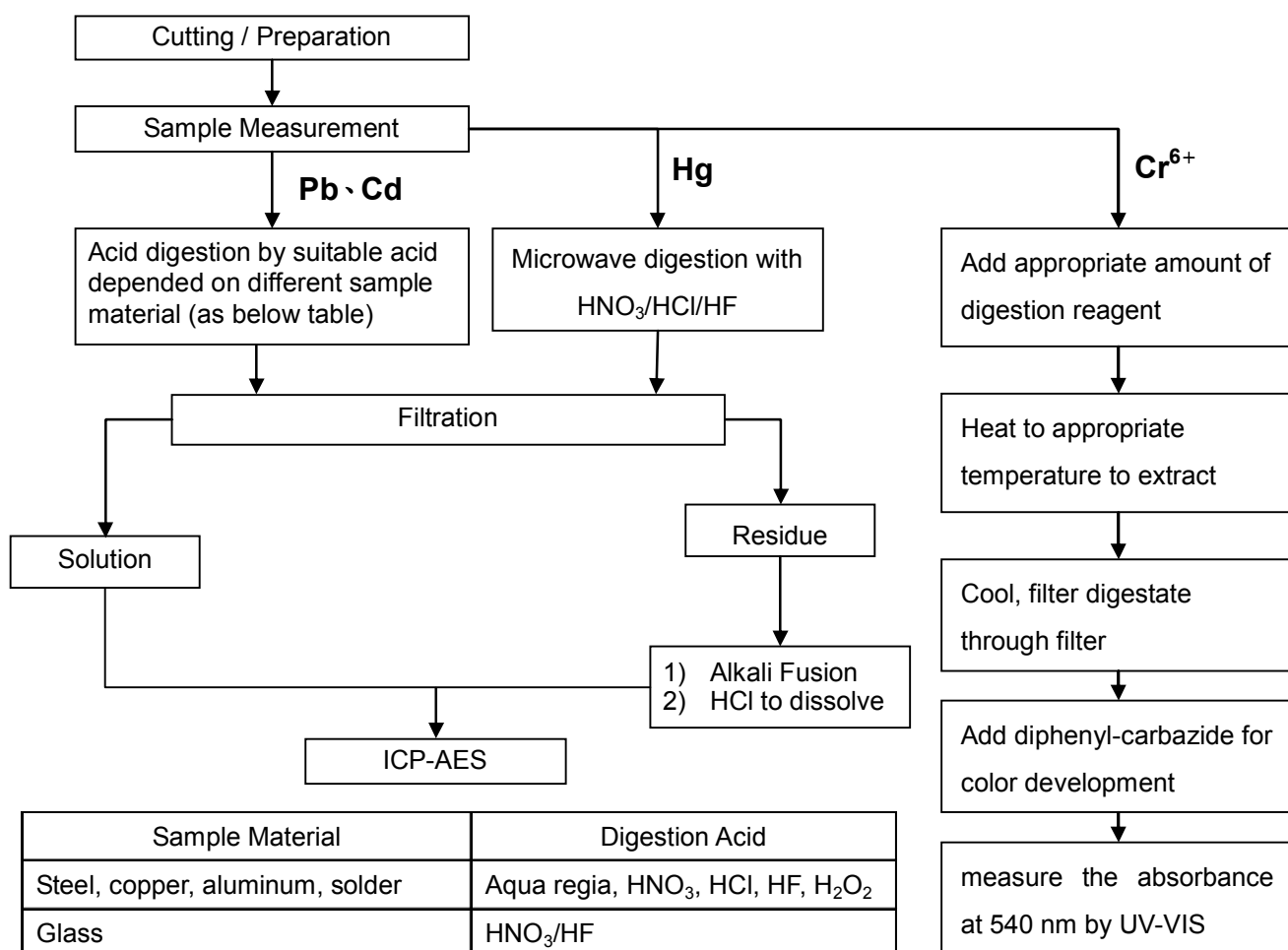
Test Report

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



- 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

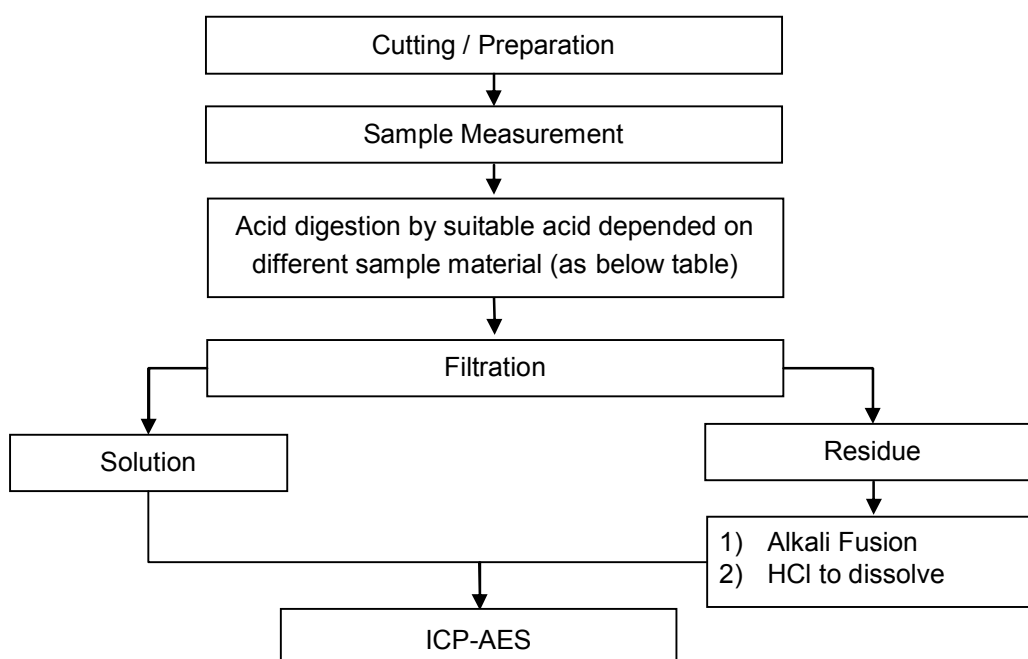
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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



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

Flow Chart of digestion for the elements analysis performed by ICP-AES



| | |
|------------------------------------|---|
| 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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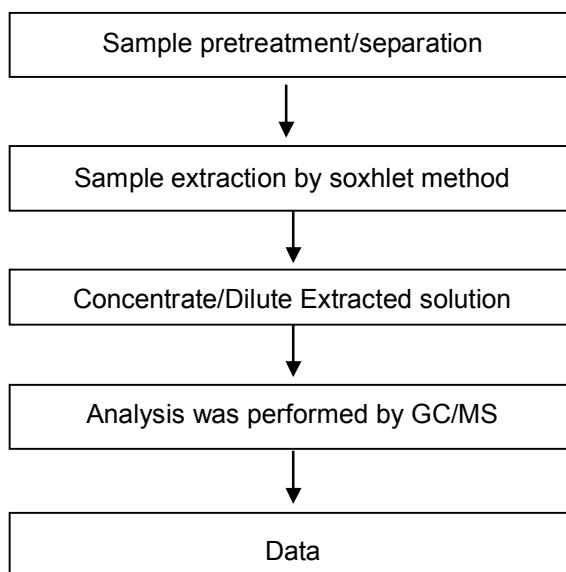
I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Analytical flow chart of Soxhlet extraction (GC/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: Phthalate 、Benzotriazole 、HBCDD



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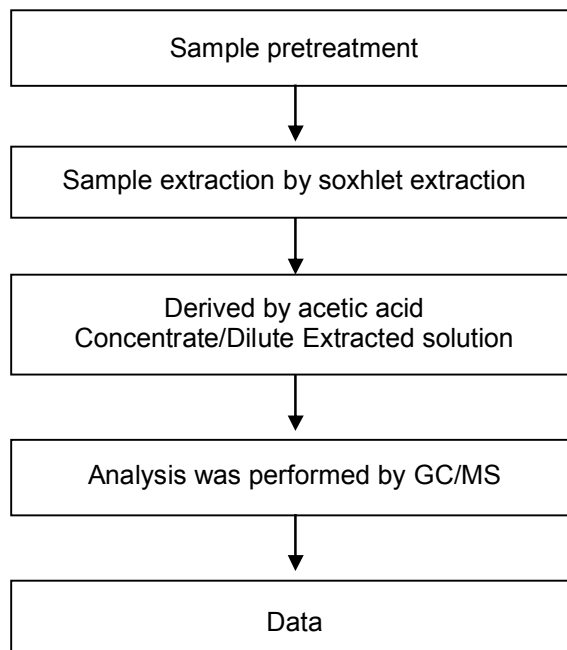
I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



analytical flow chart

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

■ Test Items: TBBP-A 、 Bisphenol A



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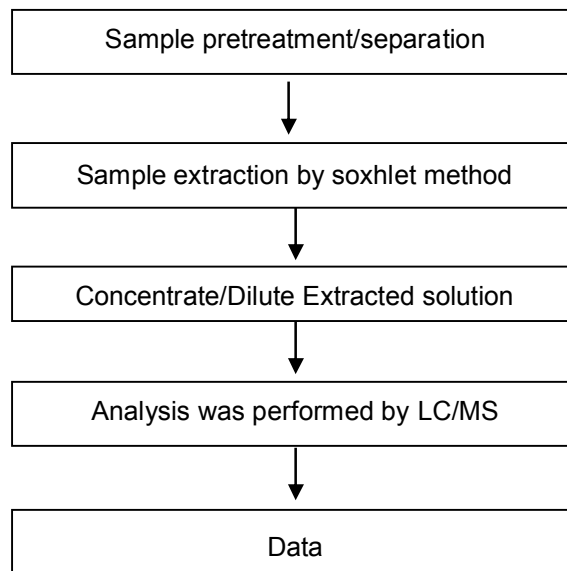
I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



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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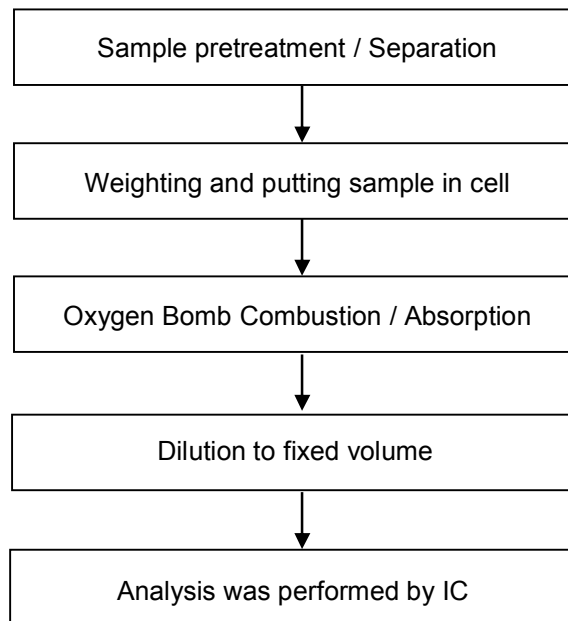
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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



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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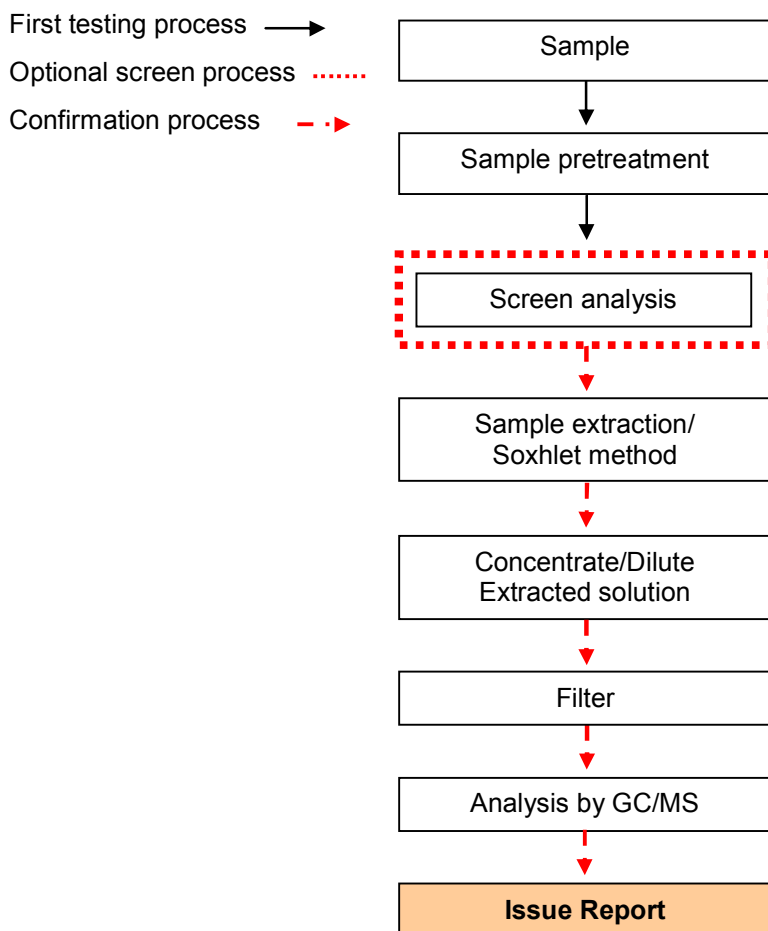
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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



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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I-PEX JP CO., LTD. TAIWAN BRANCH
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**** End of Report ****

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Test Report

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



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

| | | |
|-----------------------|---|--------------------------|
| Sample Description | : | MHF PLUG CONTACT |
| Style/Item No. | : | 1845-0** |
| Sample Receiving Date | : | 2010/02/22 |
| Testing Period | : | 2010/02/22 TO 2010/02/26 |

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


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

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Test Report

No. : CE/2010/23733 Date : 2010/02/26 Page : 2 of 7

I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN**Test Result(s)**

PART NAME NO.1 : PLATING LAYER OF GOLDEN COLORED METAL
PART NAME NO.2 : BASE MATERIAL OF GOLDEN COLORED METAL

| Test Item (s): | Unit | Method | MDL | Result | |
|---|-------------------|--|--|----------|----------|
| | | | | No.1 | No.2 |
| Cadmium (Cd) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | n.d. |
| Lead (Pb) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | 20 |
| Mercury (Hg) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | n.d. |
| Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction | ** | With reference to IEC 62321: 2008 and performed by Spot test / boiling water extraction Method. (See Note 6) | 0.02mg/kg with 50 cm ² surface area | Negative | Negative |
| Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide | µg/m ² | With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS. | 1 | n.d. | --- |

Note : 1. mg/kg = ppm ; 0.1wt% = 1000ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. "---" = Not Conducted

5. ** = Qualitative analysis (No Unit)

6. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer.

Positive = Presence of Cr(VI) coating / surface layer;

the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

**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 $1\mu\text{g}/\text{m}^2$ of the coated material.

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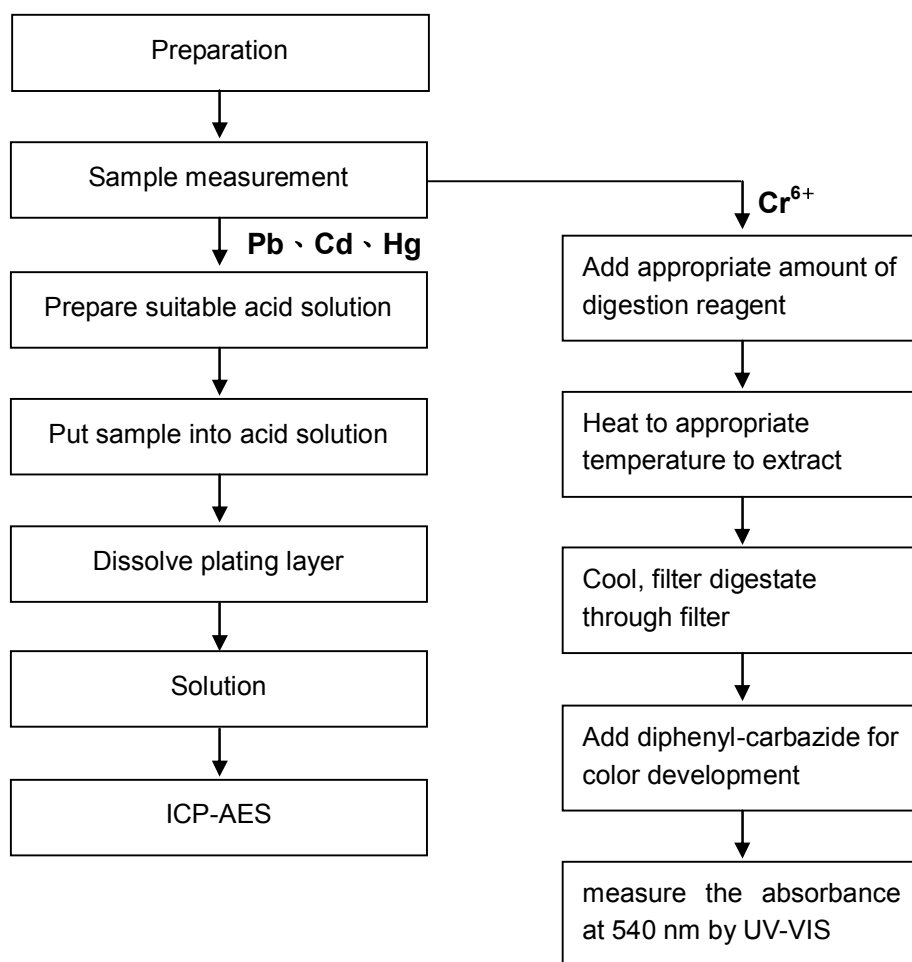
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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



- NO.1
- 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

Flow Chart of Stripping method for metal analysis



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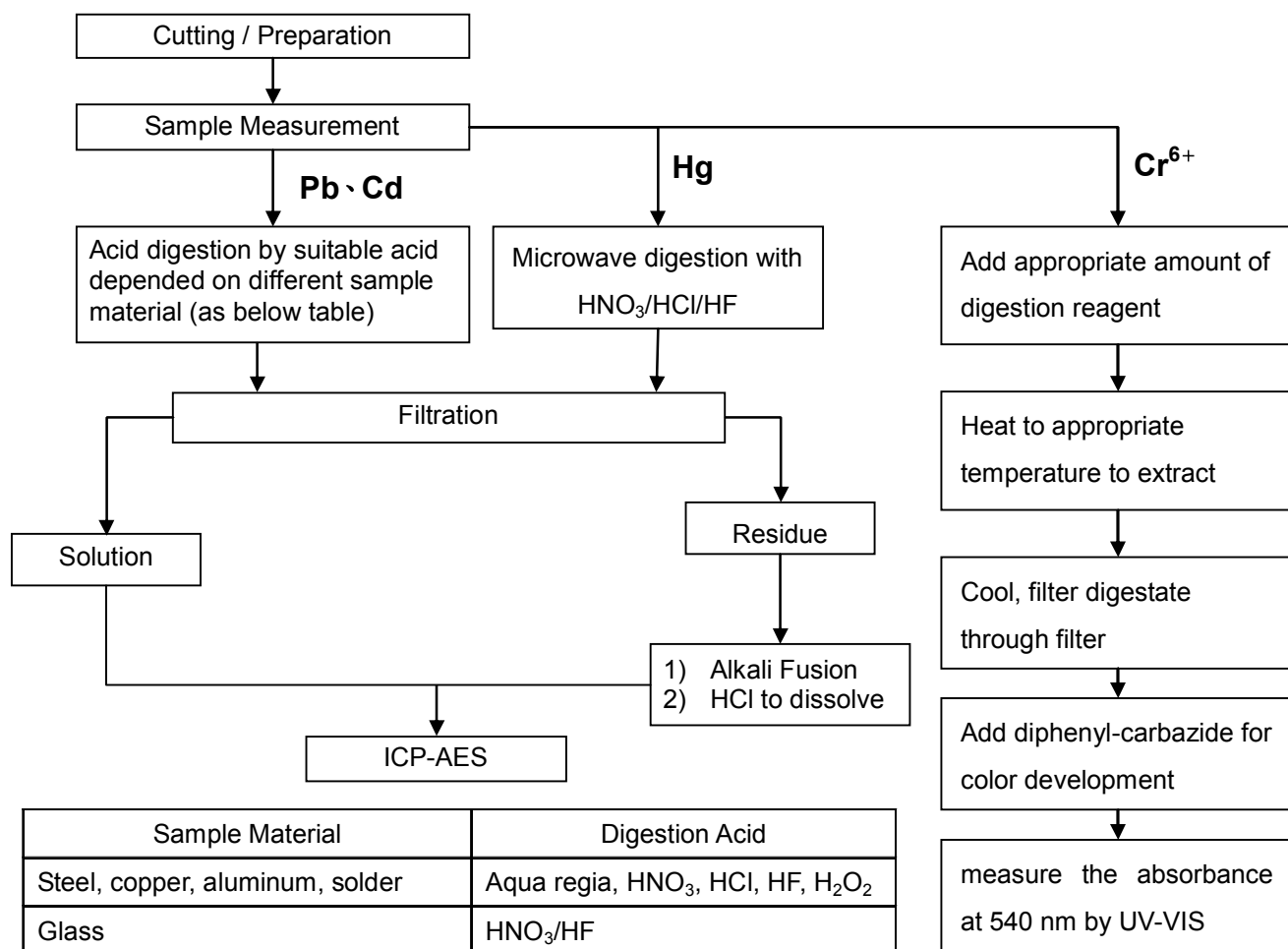
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- NO.2 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy 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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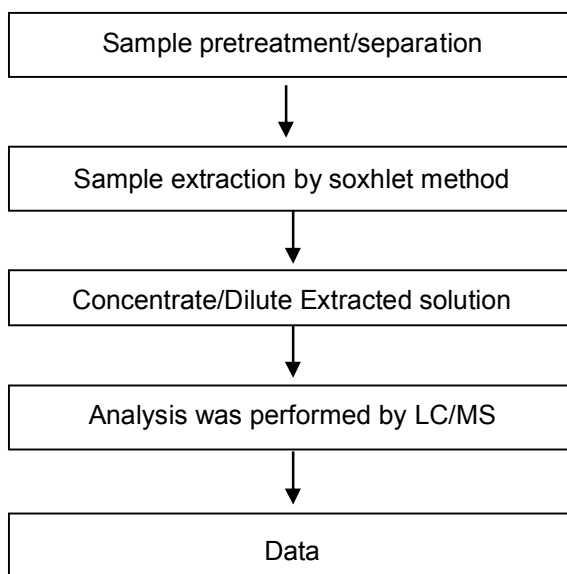
I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



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 、 Benztotriazole



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**** End of Report ****

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I-PEX JP CO., LTD. TAIWAN BRANCH
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The following sample(s) was/were submitted and identified by/on behalf of the client as :

| | | |
|-----------------------|---|--------------------------|
| Sample Description | : | MHF RECE. GROUND CONTACT |
| Style/Item No. | : | 1848-001 |
| Sample Receiving Date | : | 2010/02/22 |
| Testing Period | : | 2010/02/22 TO 2010/02/26 |

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


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

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN**Test Result(s)**

PART NAME NO.1 : PLATING LAYER OF GOLDEN COLORED METAL
 PART NAME NO.2 : BASE MATERIAL OF GOLDEN COLORED METAL

| Test Item (s): | Unit | Method | MDL | Result | |
|---|-------------------|--|--|----------|----------|
| | | | | No.1 | No.2 |
| Cadmium (Cd) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | n.d. |
| Lead (Pb) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | 19 |
| Mercury (Hg) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | n.d. |
| Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction | ** | With reference to IEC 62321: 2008 and performed by Spot test / boiling water extraction Method. (See Note 6) | 0.02mg/kg with 50 cm ² surface area | Negative | Negative |
| Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide | µg/m ² | With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS. | 1 | n.d. | --- |

Note : 1. mg/kg = ppm ; 0.1wt% = 1000ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. "---" = Not Conducted

5. ** = Qualitative analysis (No Unit)

6. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer.

Positive = Presence of Cr(VI) coating / surface layer;

the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



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 $1\mu\text{g}/\text{m}^2$ of the coated material.

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SGS Taiwan Ltd.
台灣檢驗科技股份有限公司 Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五權路33號 t + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com

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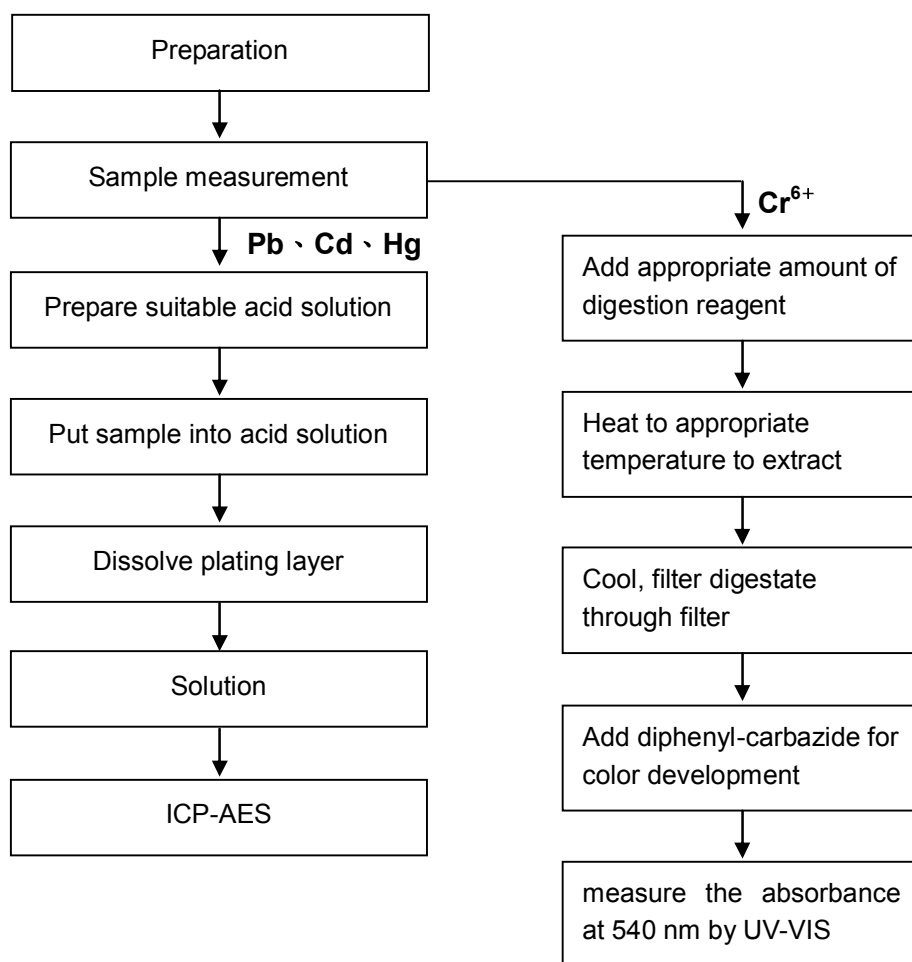
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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



NO.1

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

Flow Chart of Stripping method for metal analysis

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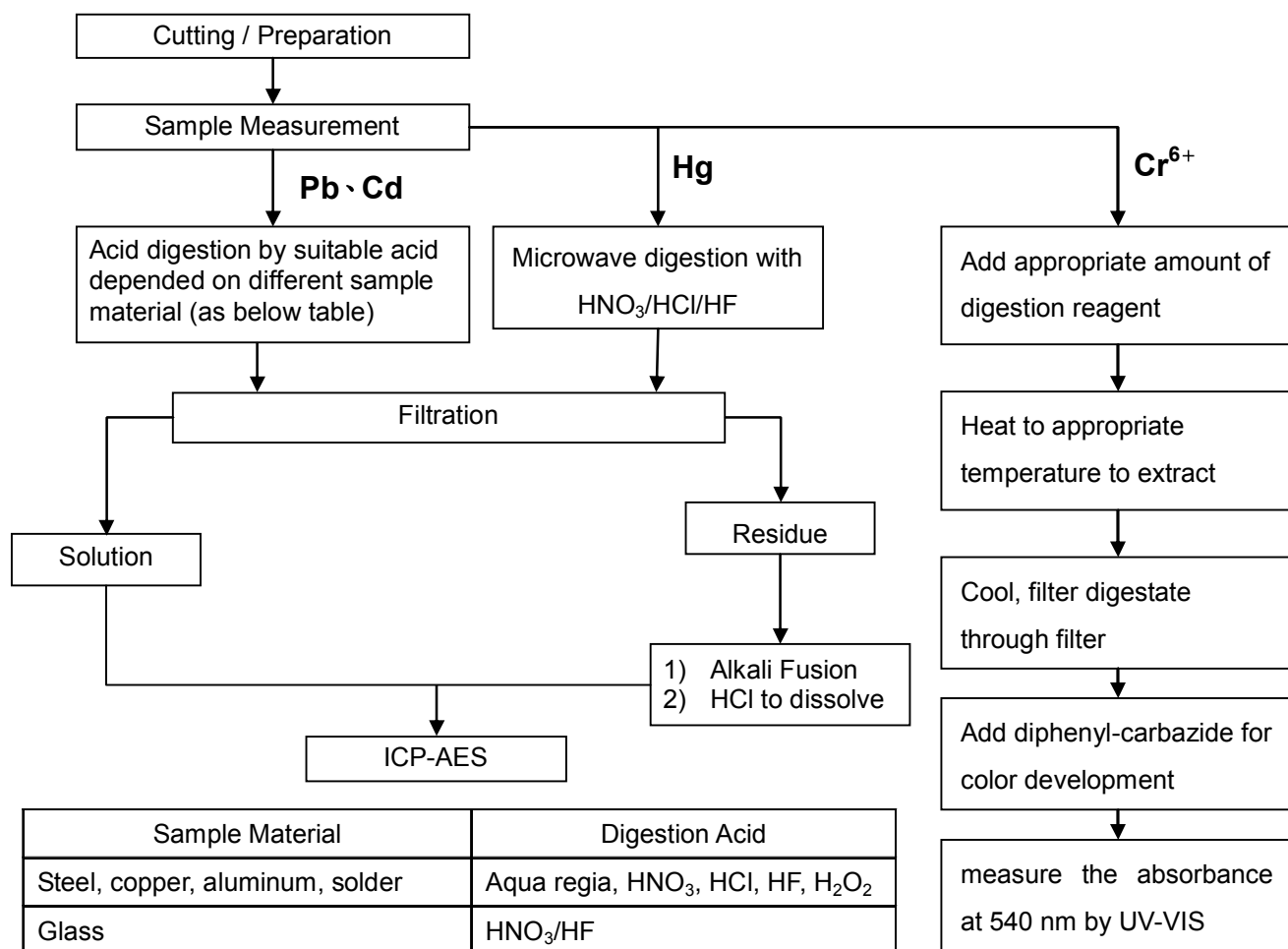
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I-PEX JP CO., LTD. TAIWAN BRANCH
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

- NO.2 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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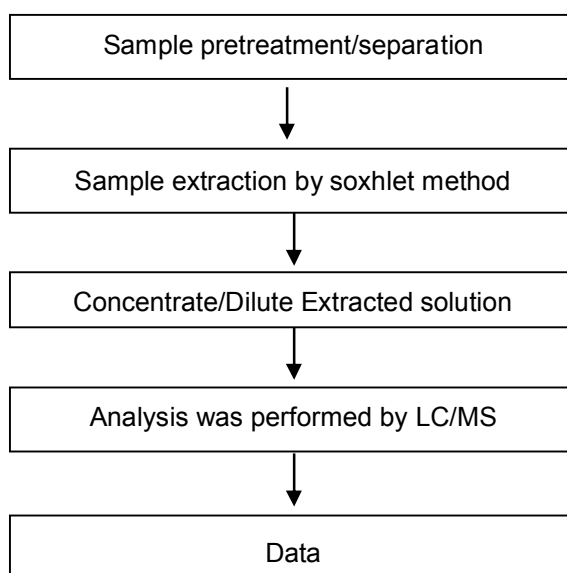
I-PEX JP CO., LTD. TAIWAN BRANCH
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Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 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 、 Benztotriazole



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