

Test Report

No. : CE/2008/76188 Date : 2008/07/25 Page : 1 of 10

EPSON TAIWAN TECHNOLOGY & TRADING LTD.
14F, NO. 7, SONG REN ROAD, TAIPEI 110, TAIWAN, R. O. C.



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

Sample Description : PLUG
Style/Item No. : PLUG
Sample Receiving Date : 2008/07/22
Testing Period : 2008/07/22 TO 2008/07/25

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 Result(s)

PART NAME NO.1 : BODY
PART NAME NO.2 : PLATING LAYER OF SILVER COLORED METAL
PART NAME NO.3 : BASE MATERIAL OF SILVER COLORED METAL

Test Item (s):	Unit	Method	MDL	Result		
				No.1	No.2	No.3
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	117000	778000	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.	n.d.	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.	---	---
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for metallic samples by Spot test / boiling water extraction Method. (See Note 5)	0.02mg/kg with 50 cm ² surface area	---	Negative	Negative
PFOS	mg/kg	With reference to US EPA 3540C : 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.	n.d.	n.d.
Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	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 method for Bromine content.	50	n.d.	---	---

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Test Item (s):	Unit	Method	MDL	Result		
				No.1	No.2	No.3
Sum of PBBs	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE 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.	---	---

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. ** = Qualitative analysis (No Unit)
 5. 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.
 6. " - " = Not Regulated
 7. " --- " = Not Conducted

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Test Report

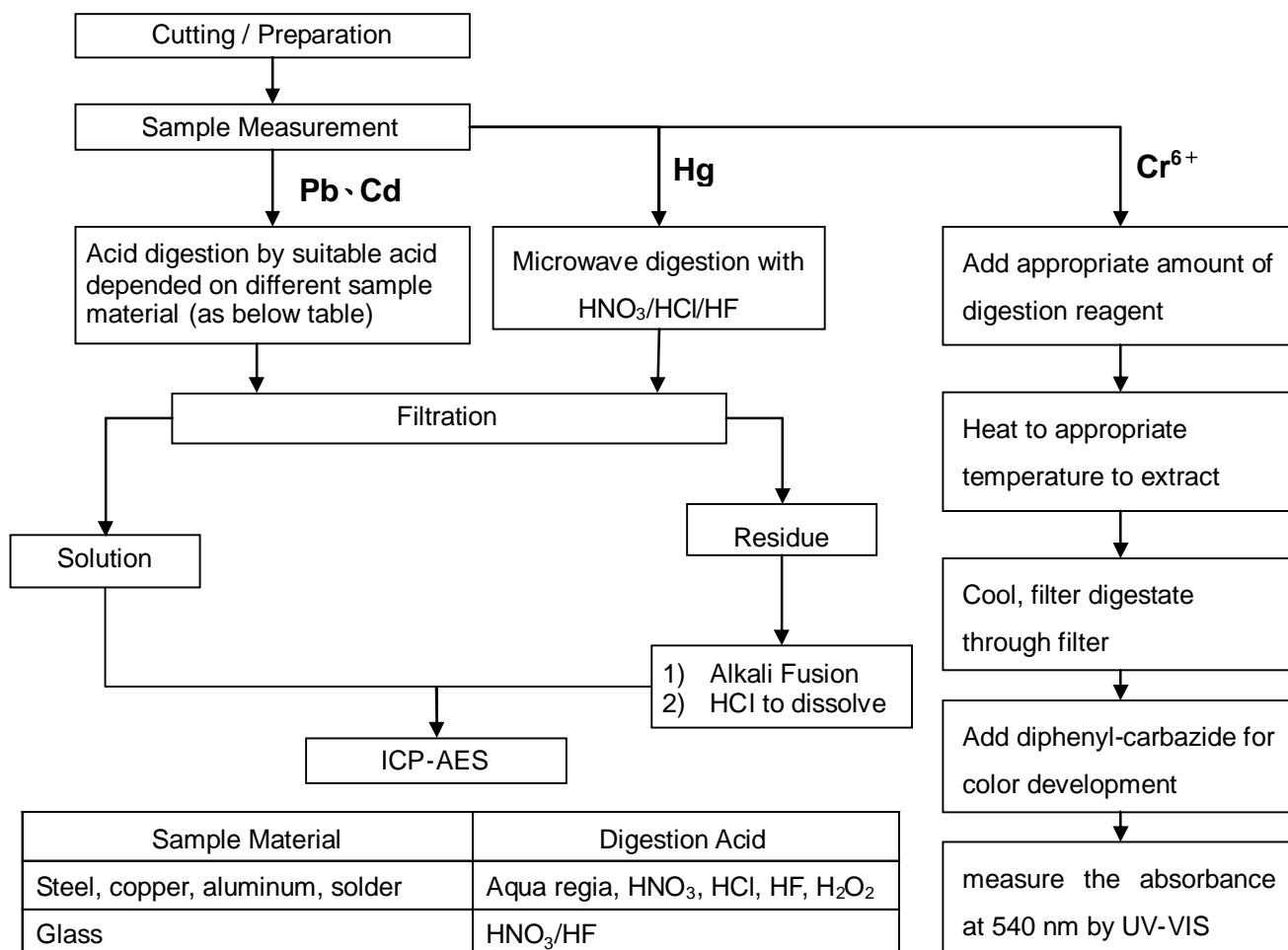
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PART NAME NO.1 AND NO.3

- 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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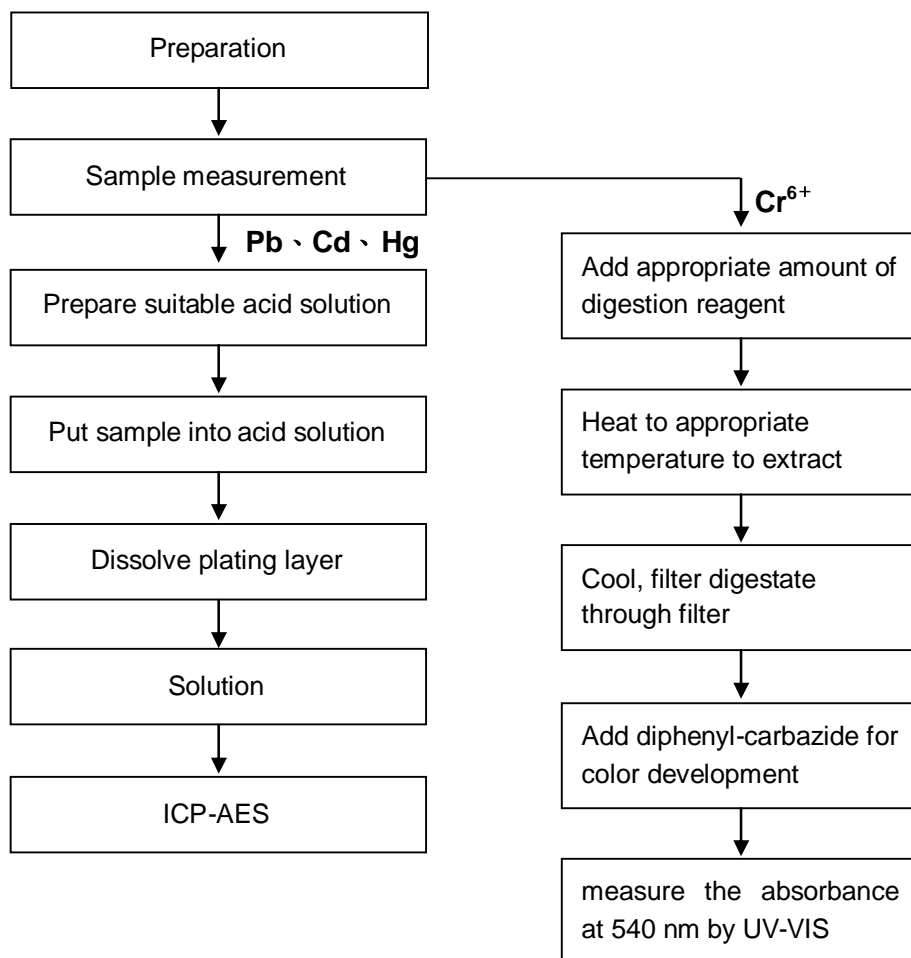
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PART NAME NO.2

- 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

Flow Chart of Stripping method for metal analysis



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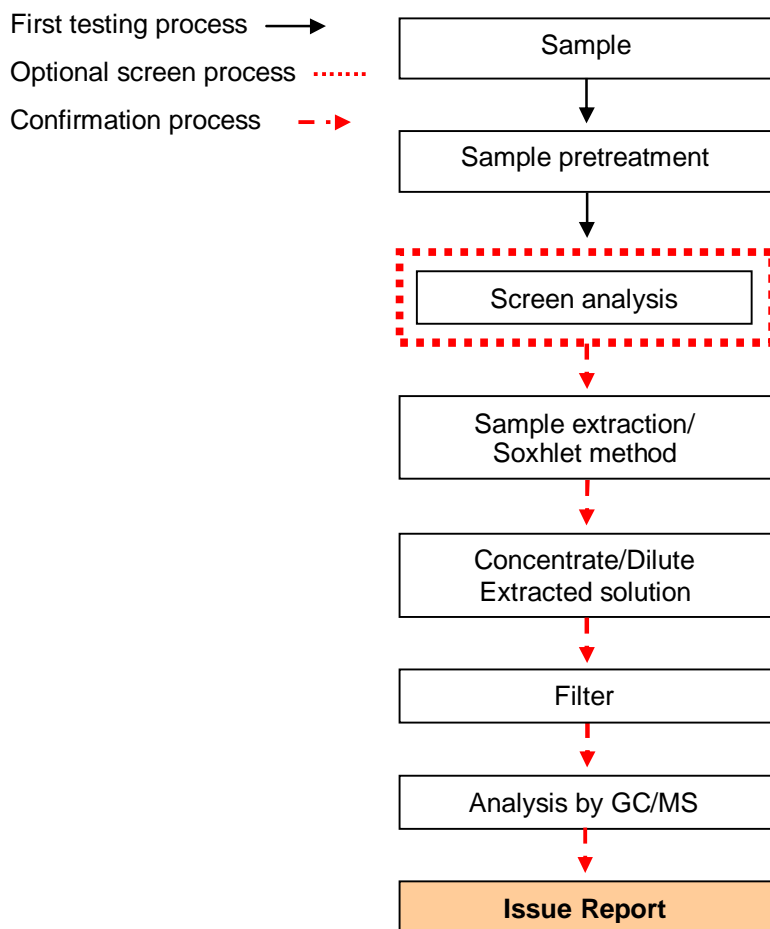
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PBB/PBDE analytical FLOW CHART

- 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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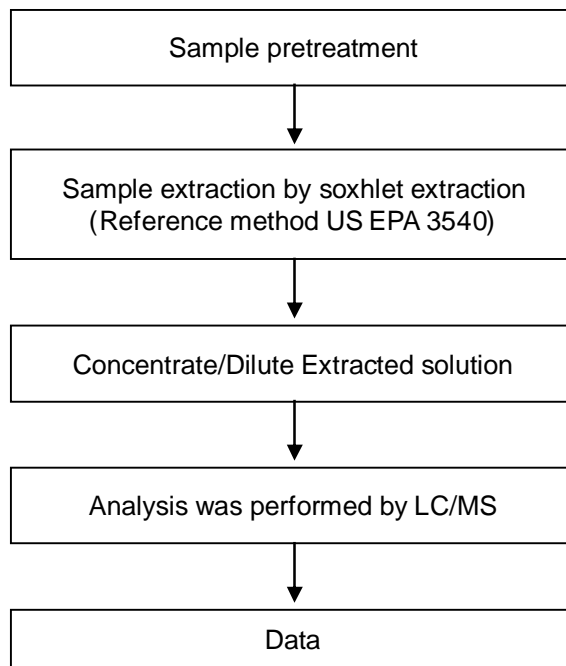
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Analytical flow chart of PFOA/PFOS content

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



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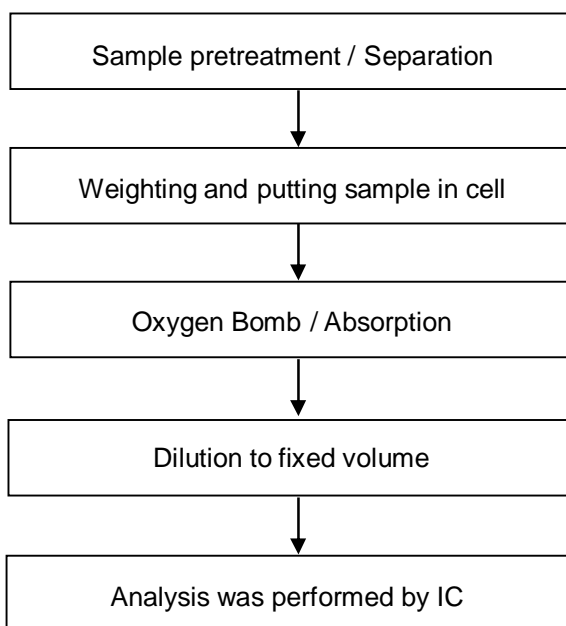
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Analytical flow chart of halogen content

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



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** End of Report **

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