

Test Report

No. : KA/2011/B1245 Date : 2011/12/01 Page : 1 of 15

TANAKA ELECTRONICS SINGAPORE PTE LTD.
29 PANDAN CRESCENT, SINGAPORE 128473.

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

Sample Description : Au BONDING WIRE
Sample Receiving Date : 2011/11/25
Testing Period : 2011/11/25 TO 2011/12/01
Sample Submitted By : TANAKA ELECTRONICS SINGAPORE PTE LTD.

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

Ray Chang
Ray Chang / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited



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Test Report

No. : KA/2011/B1245 Date : 2011/12/01 Page : 2 of 15

TANAKA ELECTRONICS SINGAPORE PTE LTD.
29 PANDAN CRESCENT, SINGAPORE 128473.

Test Result(s)

PART NAME NO.1 : GOLD Au BONDING WIRE

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 boiling water extraction#	**	With reference to IEC 62321: 2008 and performed by boiling water extraction Method.	0.02mg/kg with 50 cm ² surface area	Negative
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Hexavalent Chromium Cr(VI)	µg/cm ²	With reference to BS EN ISO 3613:2001 for Hexavalent Chromium. Analysis was performed by UV-VIS Spectrometry.	0.02	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV-Vis Spectrometry.	2	n.d.
Sum of PBBs			-	n.d.
Monobromobiphenyl	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	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.

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Test Report

No. : KA/2011/B1245 Date : 2011/12/01 Page : 3 of 15

TANAKA ELECTRONICS SINGAPORE PTE LTD.
29 PANDAN CRESCENT, SINGAPORE 128473.

Test Item (s):	Unit	Method	MDL	Result
				No.1
Sum of PBDEs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	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.
Antimony (Sb)			mg/kg	With reference to US EPA Method 3052 for Antimony Content. Analysis was performed by ICP-AES.
Phosphorus (P)	mg/kg	With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	2	n.d.
Perfluorooctane sulfonates (PFOS - Acid, Metal Salt, 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.: 335-67-1)	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.
Dimethyl Fumarate (CAS No.: 624-49-7)	mg/kg	With reference to US EPA 3550C method. Analysis was performed by GC/MS.	0.1	n.d.
Hexabromocyclododecane (HBCDD) (CAS No.: 25637-99-4)	mg/kg	With reference to US EPA 3540C: 1996 method. Analysis was performed by GC/MS.	5	n.d.
PVC	**	Analysis was performed by FTIR and FLAME Test.	-	Negative

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Test Report

No. : KA/2011/B1245 Date : 2011/12/01 Page : 4 of 15

TANAKA ELECTRONICS SINGAPORE PTE LTD.
29 PANDAN CRESCENT, SINGAPORE 128473.

Test Item (s):	Unit	Method	MDL	Result
				No.1
Halogen				
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Phthalates				
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

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Test Report

No. : KA/2011/B1245 Date : 2011/12/01 Page : 5 of 15

TANAKA ELECTRONICS SINGAPORE PTE LTD.
29 PANDAN CRESCENT, SINGAPORE 128473.

- Note :
1. mg/kg = ppm ; 0.1wt% = 1000ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. " - " = Not Regulated
 5. Method Detection Limit = $0.02 \mu\text{g}/\text{cm}^2$.
 6. # = a. Positive means the presence of CrVI on the tested areas
b. Negative means the absence of CrVI on the tested areas
The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² tested areas .
 7. ** = Qualitative analysis (No Unit)
 8. PVC:Negative = Undetectable / Positive = Detectable
 9. The PVC test was subcontracted to other SGS Laboratory.

PFOS Reference Information : Directive 2006/122/EC

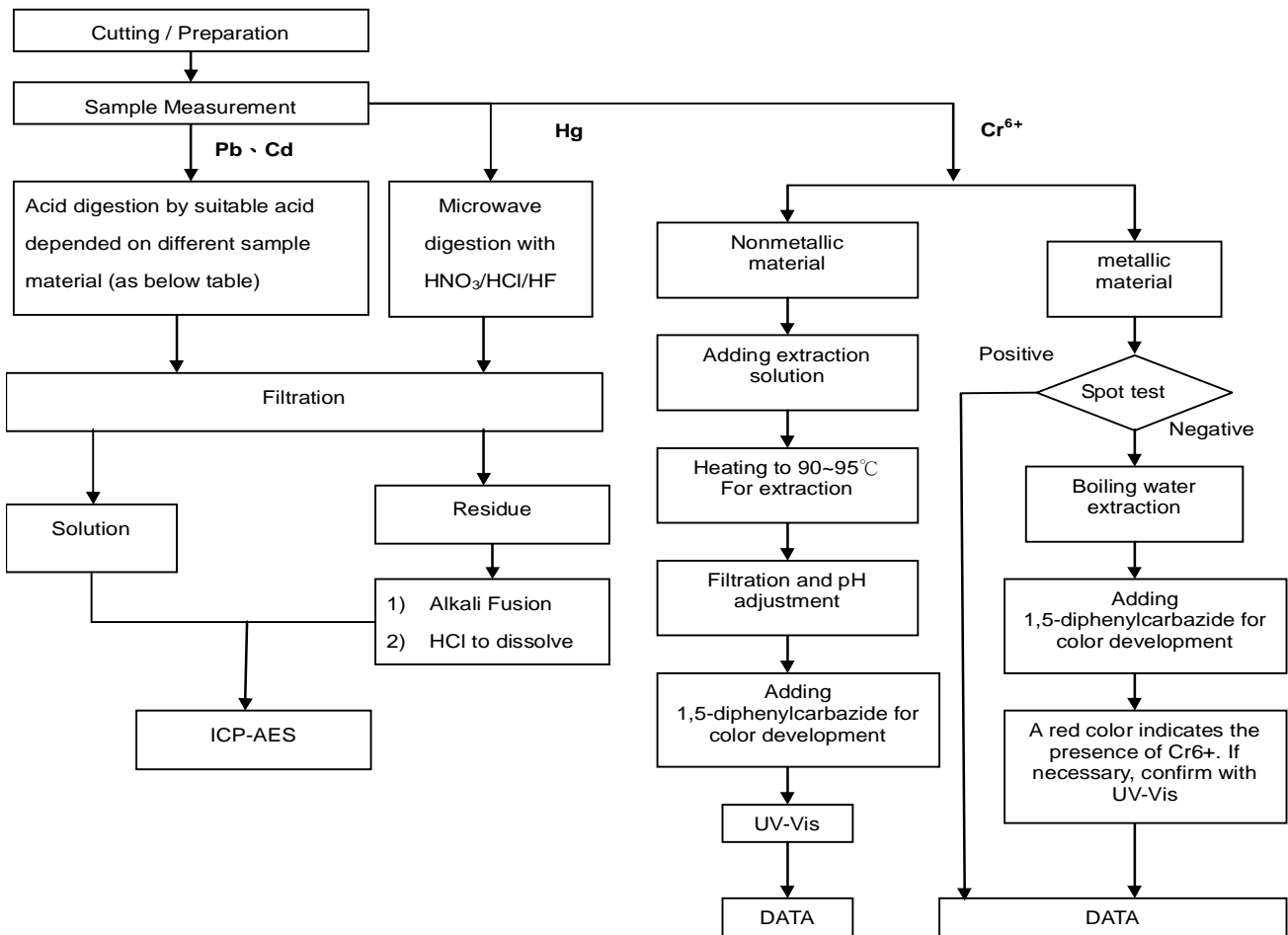
- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 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.

Test Report

No. : KA/2011/B1245 Date : 2011/12/01 Page : 6 of 15

TANAKA ELECTRONICS SINGAPORE PTE LTD.
29 PANDAN CRESCENT, SINGAPORE 128473.

- 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: Alex Chang
- 3) Name of the person in charge of measurement: Ray 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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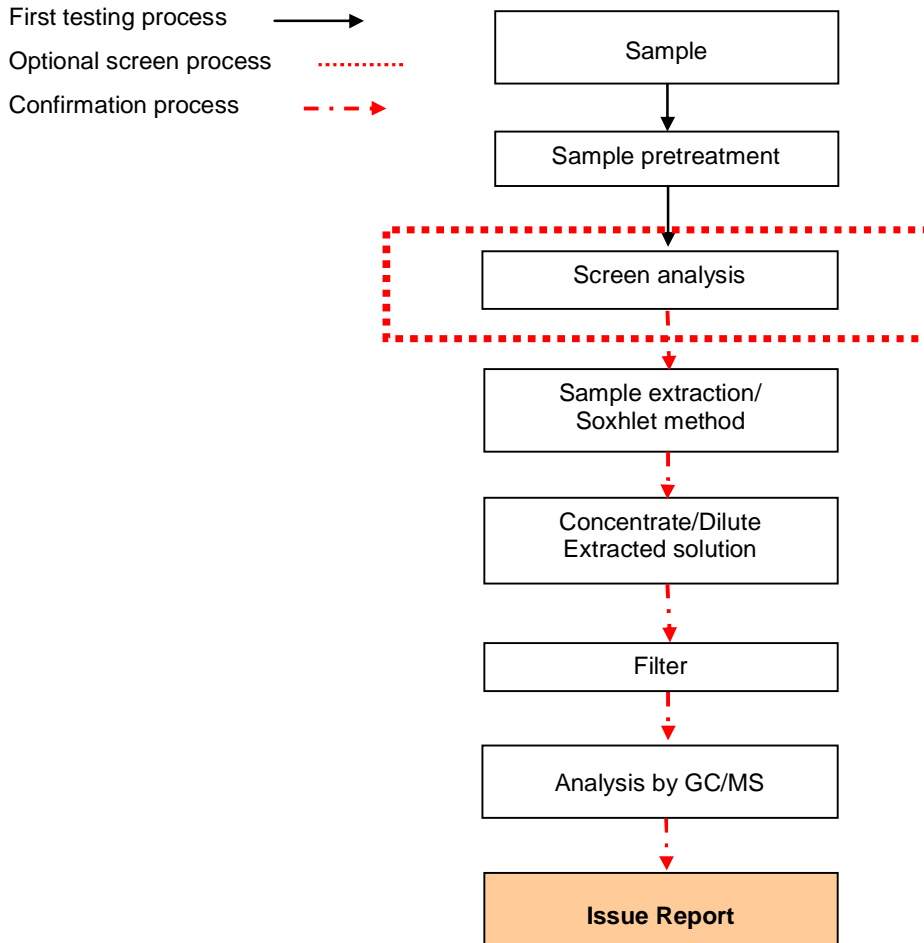
Test Report

No. : KA/2011/B1245 Date : 2011/12/01 Page : 7 of 15

TANAKA ELECTRONICS SINGAPORE PTE LTD.
29 PANDAN CRESCENT, SINGAPORE 128473.

PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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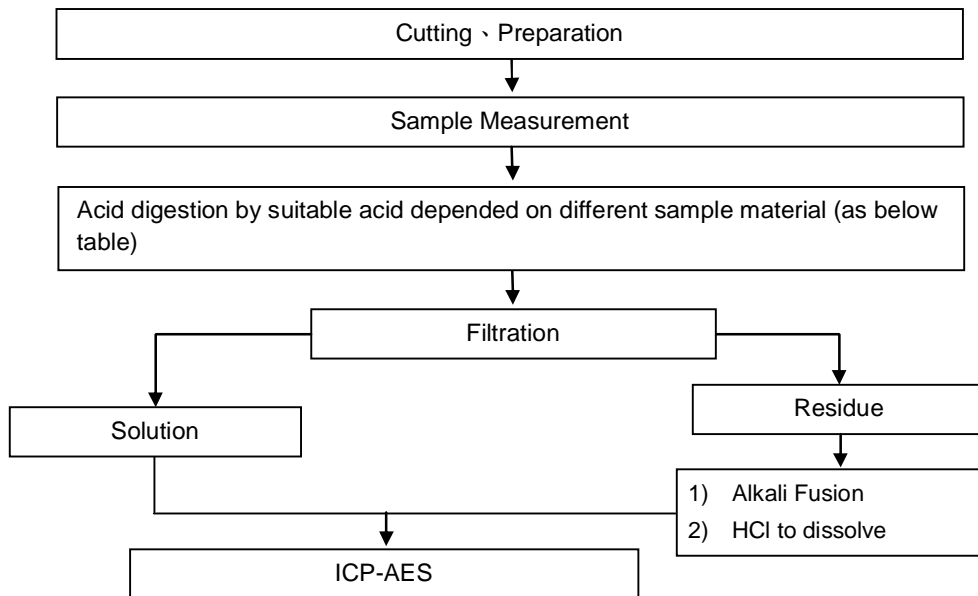
Test Report

No. : KA/2011/B1245 Date : 2011/12/01 Page : 8 of 15

TANAKA ELECTRONICS SINGAPORE PTE LTD.
29 PANDAN CRESCENT, SINGAPORE 128473.

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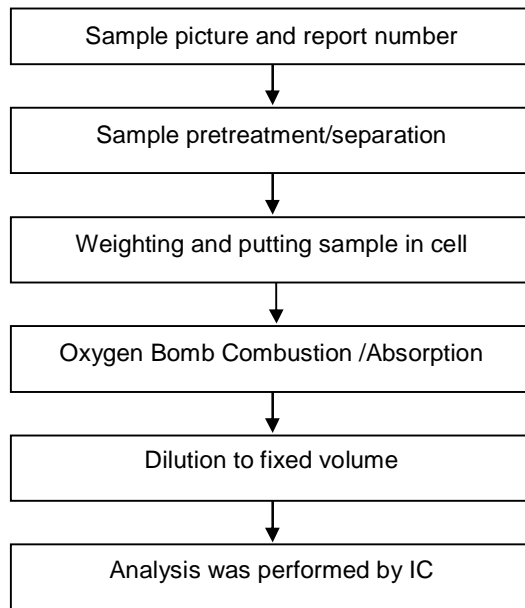
Test Report

No. : KA/2011/B1245 Date : 2011/12/01 Page : 9 of 15

TANAKA ELECTRONICS SINGAPORE PTE LTD.
29 PANDAN CRESCENT, SINGAPORE 128473.

Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Jean Hung
- 2) Name of the person in charge of measurement: Ray Chang

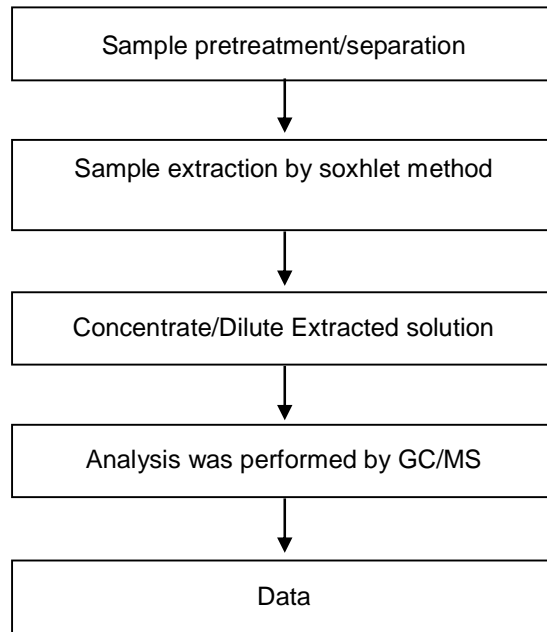


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TANAKA ELECTRONICS SINGAPORE PTE LTD.
29 PANDAN CRESCENT, SINGAPORE 128473.

Analytical flow chart of phthalate content

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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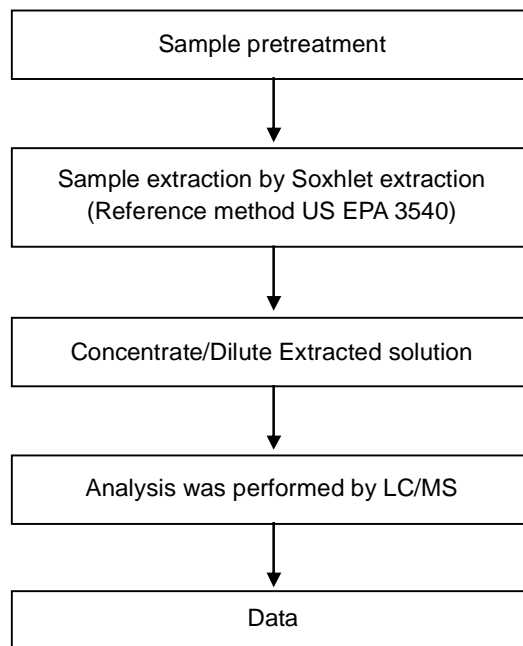
Test Report

No. : KA/2011/B1245 Date : 2011/12/01 Page : 11 of 15

TANAKA ELECTRONICS SINGAPORE PTE LTD.
29 PANDAN CRESCENT, SINGAPORE 128473.

Analytical flow chart of PFOA/PFOS content

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang

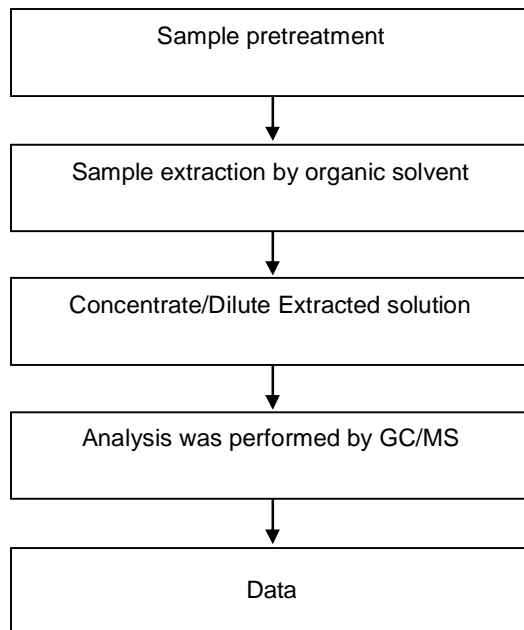


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TANAKA ELECTRONICS SINGAPORE PTE LTD.
29 PANDAN CRESCENT, SINGAPORE 128473.

Analytical flow chart of Dimethyl Fumarate content

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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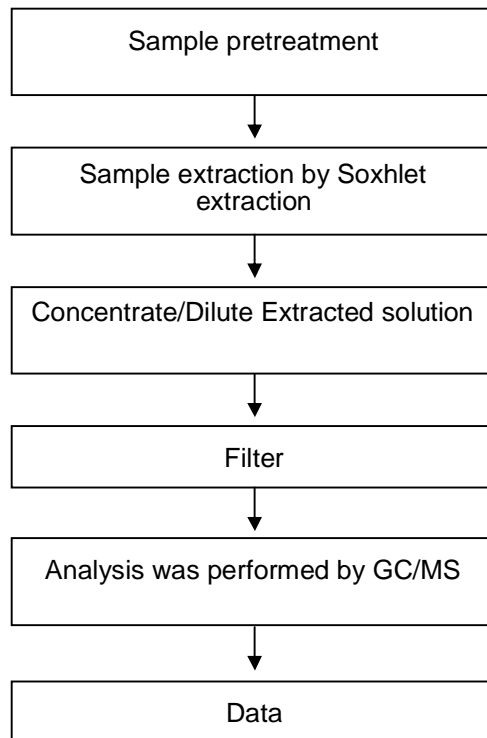
Test Report

No. : KA/2011/B1245 Date : 2011/12/01 Page : 13 of 15

TANAKA ELECTRONICS SINGAPORE PTE LTD.
29 PANDAN CRESCENT, SINGAPORE 128473.

HBCDD Analytical FLOW CHART

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang

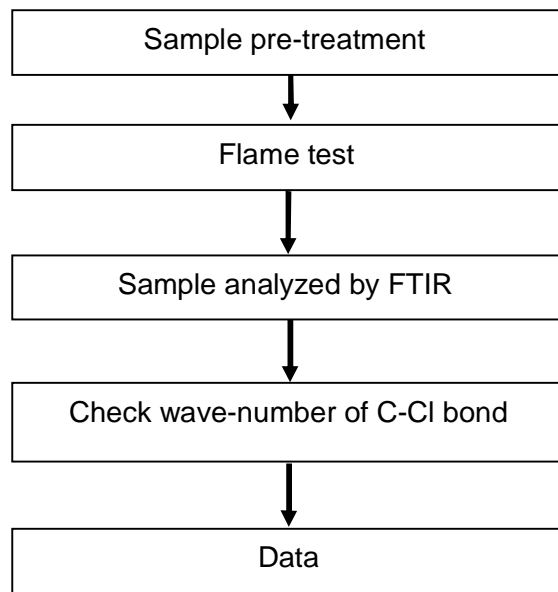


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TANAKA ELECTRONICS SINGAPORE PTE LTD.
29 PANDAN CRESCENT, SINGAPORE 128473.

Analysis flow chart for determination of PVC in polymer material

- 1) Name of the person who made measurement: Joyce Chiu
- 2) Name of the person in charge of measurement: Roger Lin



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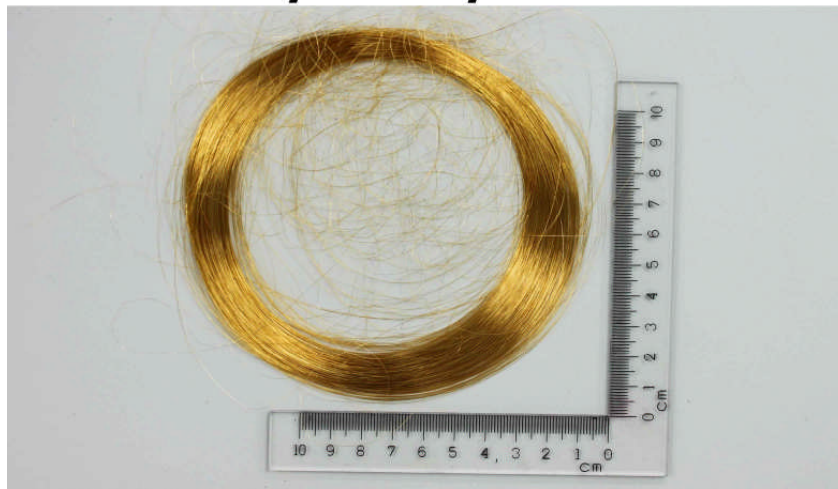
Test Report

No. : KA/2011/B1245 Date : 2011/12/01 Page : 15 of 15

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29 PANDAN CRESCENT, SINGAPORE 128473.

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

KA/2011/B1245



** End of Report **

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