

Test Report

No. : KE/2011/63089 Date : 2011/06/28 Page : 1 of 7

TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



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

Sample Description : MIX TEST: SUNFLOWER SERIES / MOONFLOWER SERIES
Style/Item No. : 720-C/360-C/144-C/720-LC/360-LC/144-LC
Material Component : INK
Sample Receiving Date : 2011/06/23
Testing Period : 2011/06/23 TO 2011/06/28
Sample Submitted By : TAIWAN NANOTECHNOLOGY

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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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



Test Result(s)

PART NAME NO.1

: MIX TEST: INK OF SUNFLOWER SERIES / MOONFLOWER SERIES

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.
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	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.

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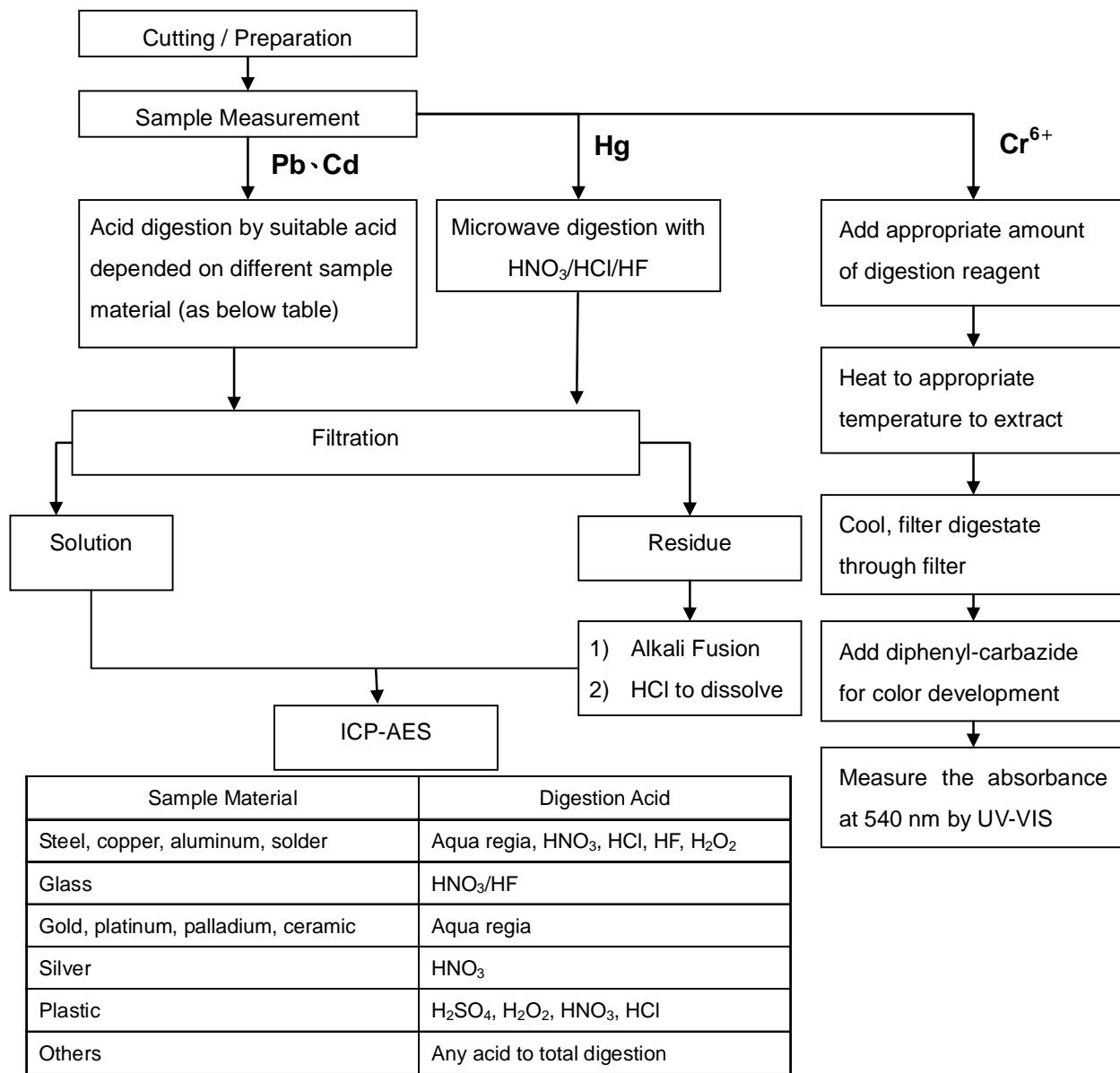
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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



- 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 Chung
- 3) Name of the person in charge of measurement: Ray Chang



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Test Report

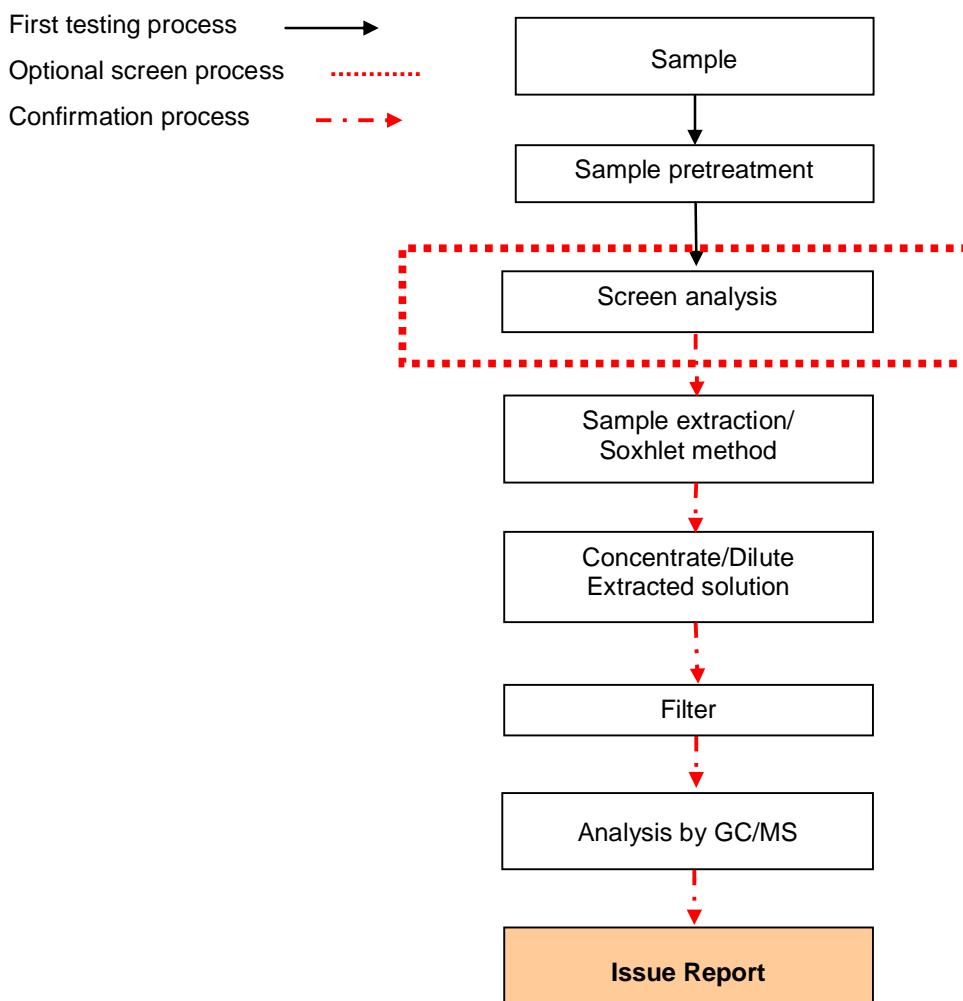
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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



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

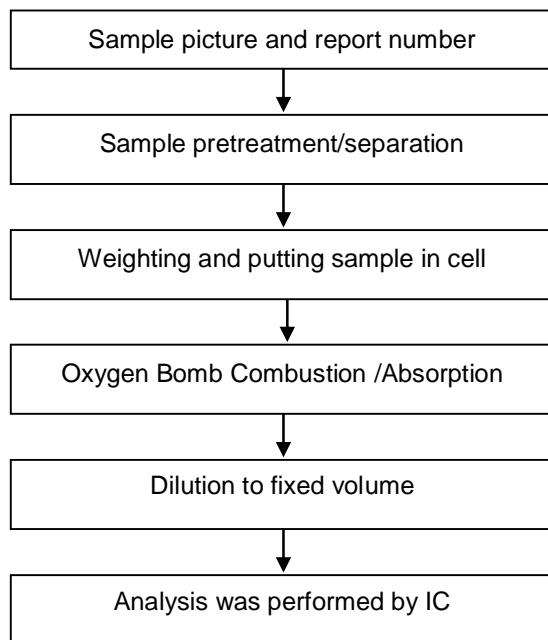
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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



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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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



** End of Report **

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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



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

Sample Description : MIX TEST: SUNFLOWER SERIES / MOONFLOWER SERIES
Style/Item No. : 720-M/360-M/144-M/720-LM/360-LM/144-LM
Material Component : INK
Sample Receiving Date : 2011/06/23
Testing Period : 2011/06/23 TO 2011/06/28
Sample Submitted By : TAIWAN NANOTECHNOLOGY

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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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



Test Result(s)

PART NAME NO.1

: MIX TEST: INK OF SUNFLOWER SERIES / MOONFLOWER SERIES

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.	
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	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.	

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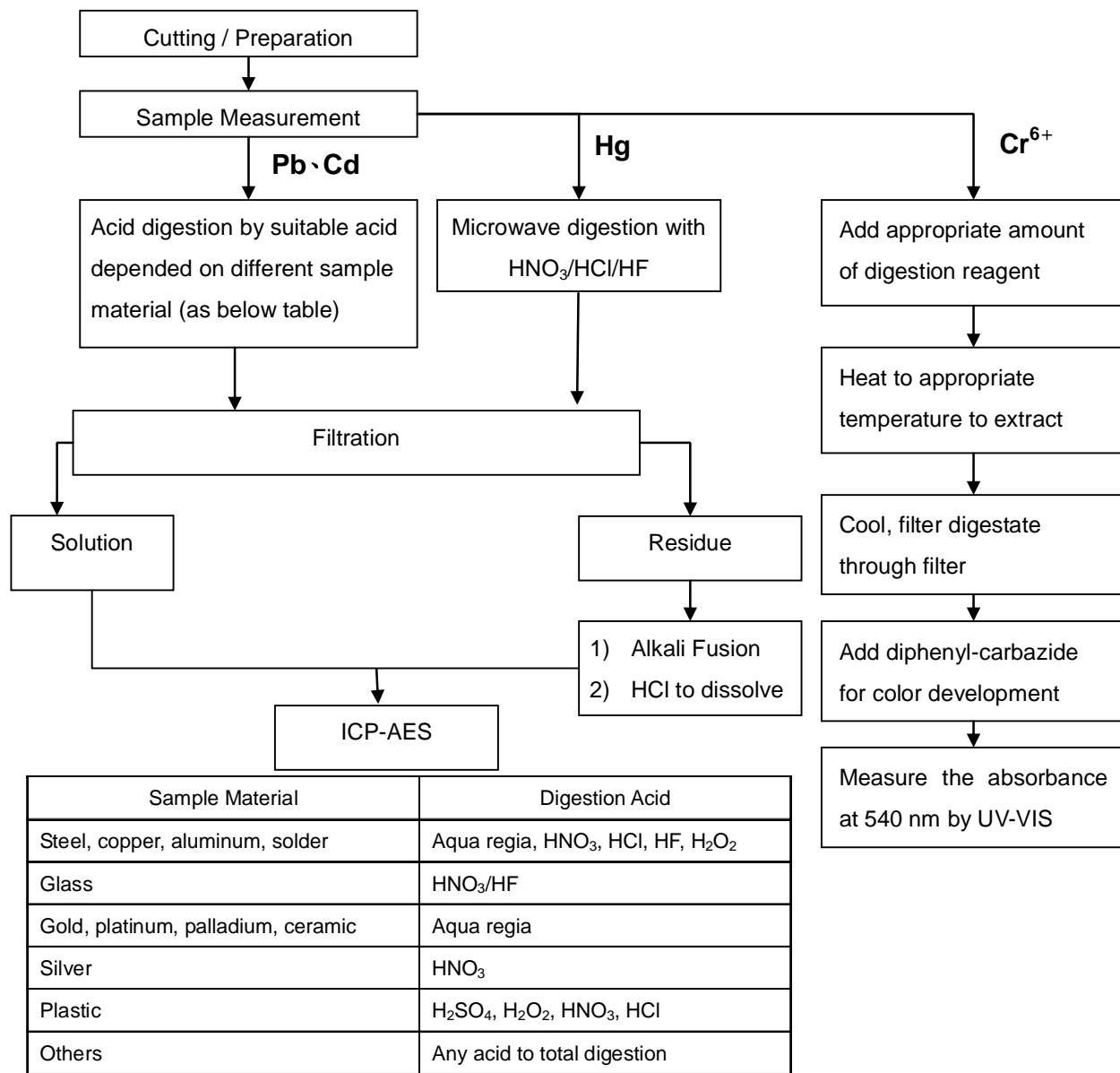
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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



- 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 Chung
- 3) Name of the person in charge of measurement: Ray Chang



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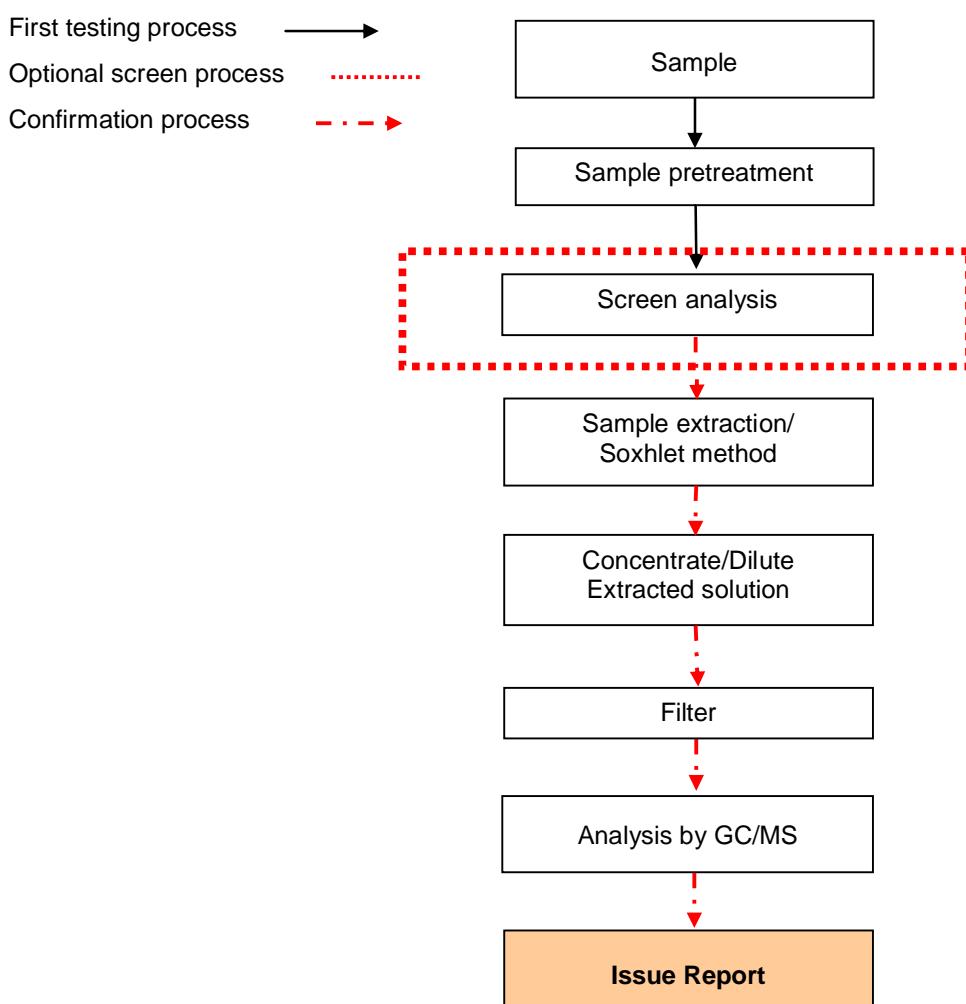
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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



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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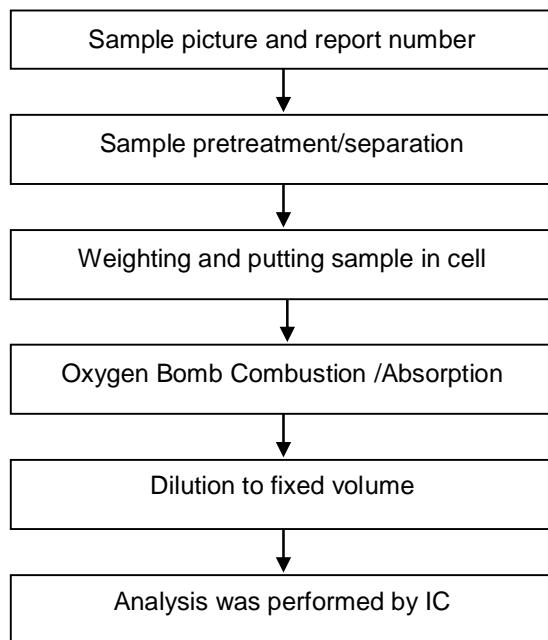
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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



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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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
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Test Report

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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



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

Sample Description : MIX TEST: SUNFLOWER SERIES / MOONFLOWER SERIES
Style/Item No. : 720-Y/360-Y/144-Y
Material Component : INK
Sample Receiving Date : 2011/06/23
Testing Period : 2011/06/23 TO 2011/06/28
Sample Submitted By : TAIWAN NANOTECHNOLOGY

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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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



Test Result(s)

PART NAME NO.1

: MIX TEST: INK OF SUNFLOWER SERIES / MOONFLOWER SERIES

Test Item (s):	Unit	Method	MDL	Result
				No.1
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Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
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Sum of PBBs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
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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	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.

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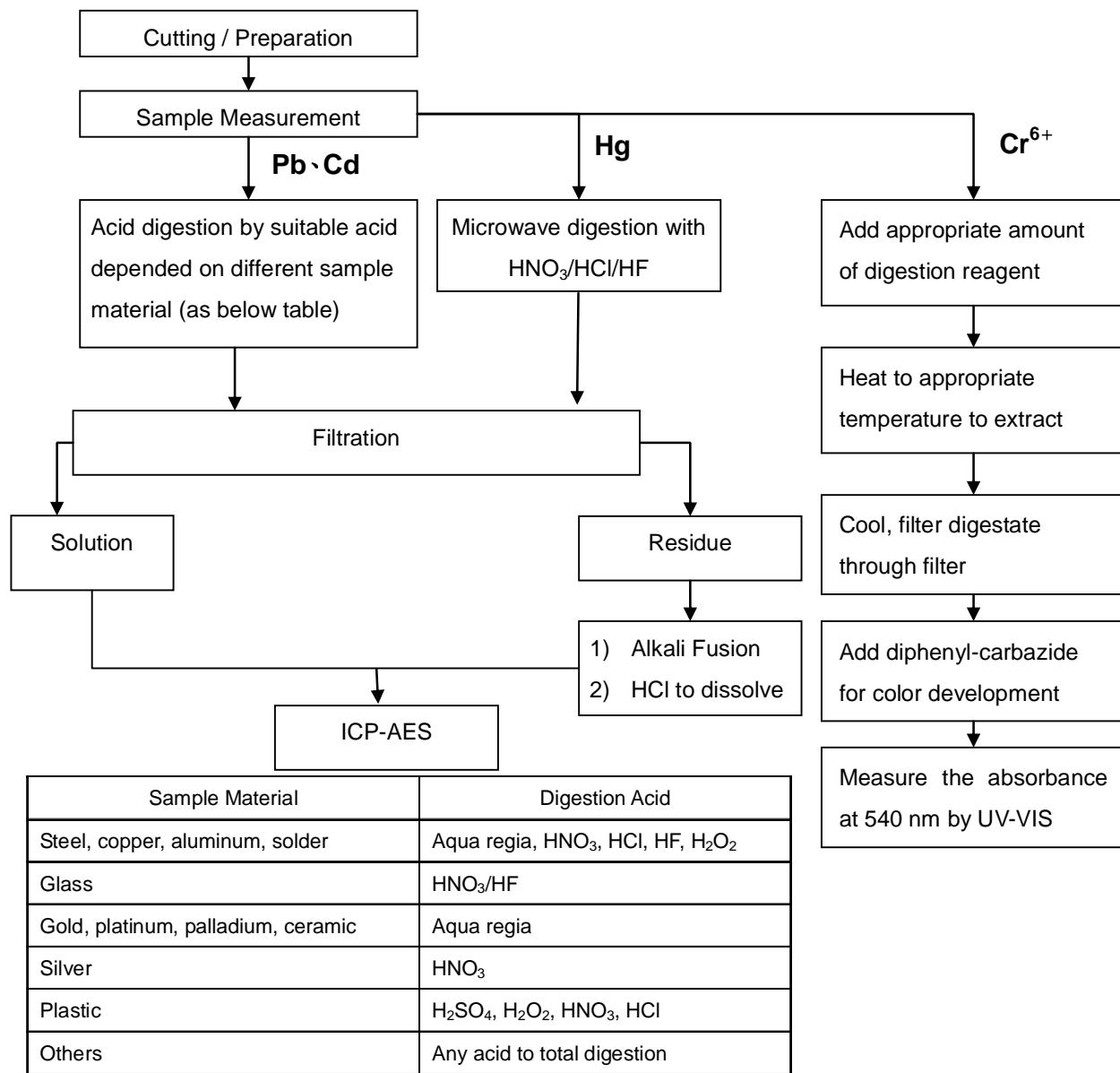
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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



- 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 Chung
- 3) Name of the person in charge of measurement: Ray Chang



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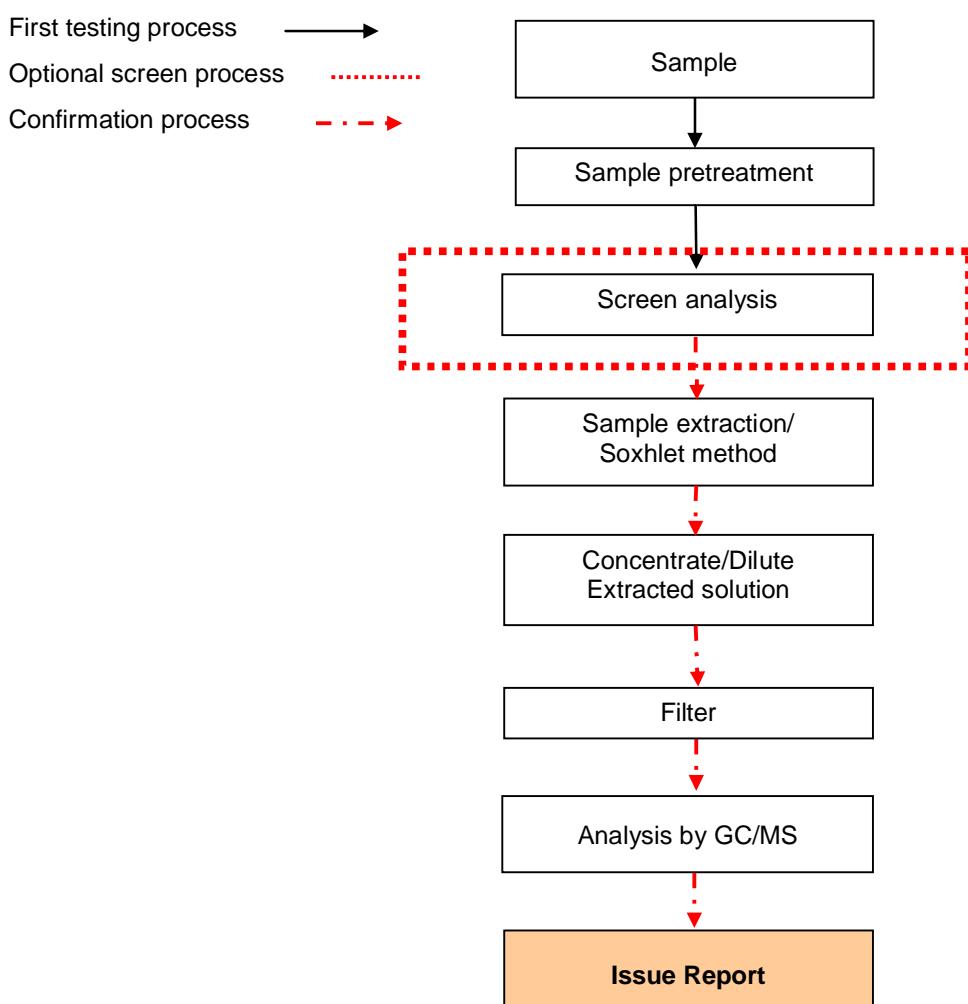
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NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



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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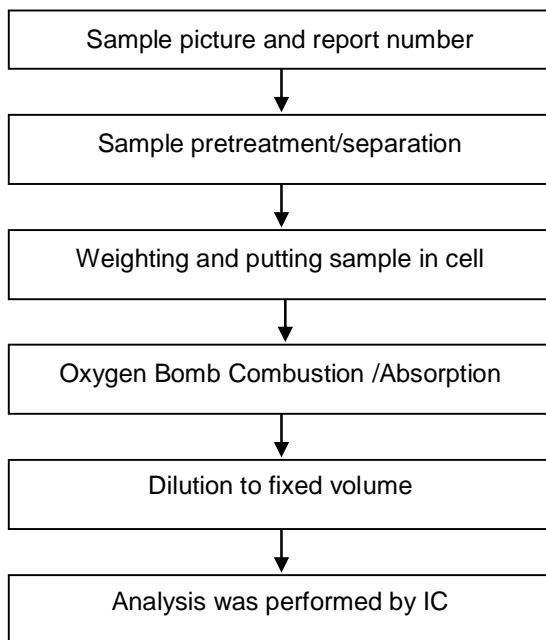
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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



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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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



** End of Report **

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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



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

Sample Description : MIX TEST: SUNFLOWER SERIES / MOONFLOWER SERIES
Style/Item No. : 720-K/360-K/144-K
Material Component : INK
Sample Receiving Date : 2011/06/23
Testing Period : 2011/06/23 TO 2011/06/28
Sample Submitted By : TAIWAN NANOTECHNOLOGY

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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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



Test Result(s)

PART NAME NO.1 : MIX TEST: INK OF SUNFLOWER SERIES / MOONFLOWER SERIES

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.	
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	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	
Monobromodiphenyl ether			5	n.d.	
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Heptabromodiphenyl ether			5	n.d.	
Octabromodiphenyl ether			5	n.d.	
Nonabromodiphenyl ether			5	n.d.	
Decabromodiphenyl ether			5	n.d.	

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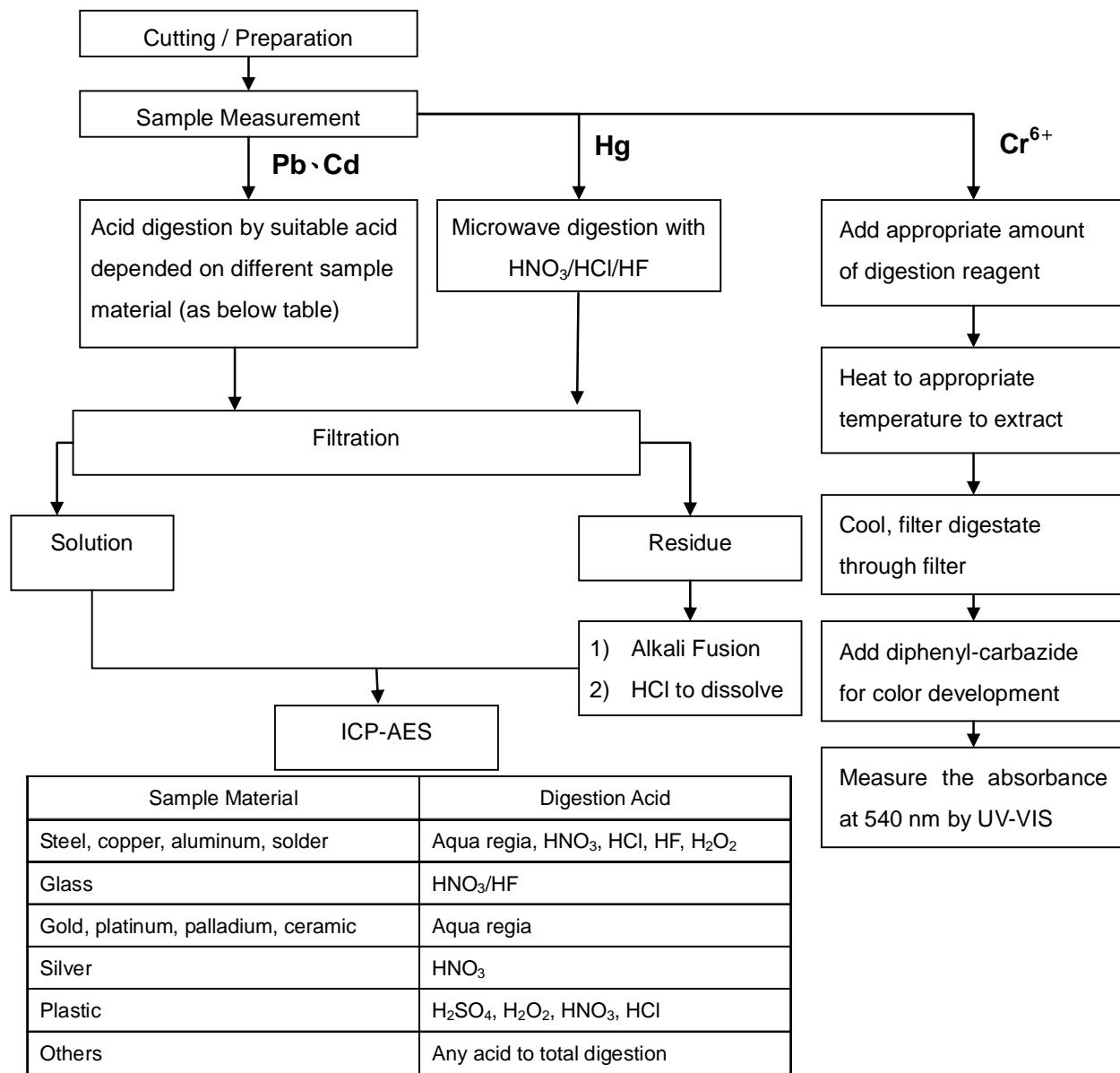
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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Alex Chung
- 3) Name of the person in charge of measurement: Ray Chang



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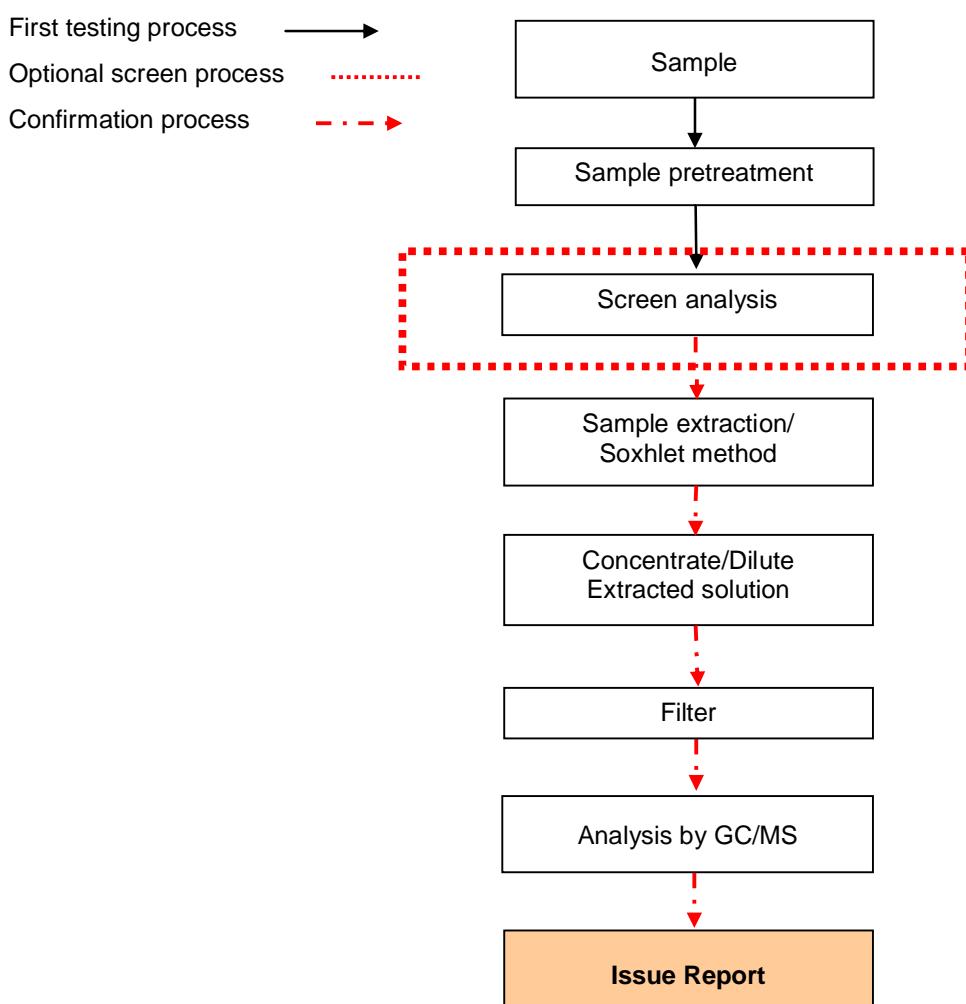
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TAIWAN NANOTECHNOLOGY CORPORATION
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PBB/PBDE analytical FLOW CHART

- 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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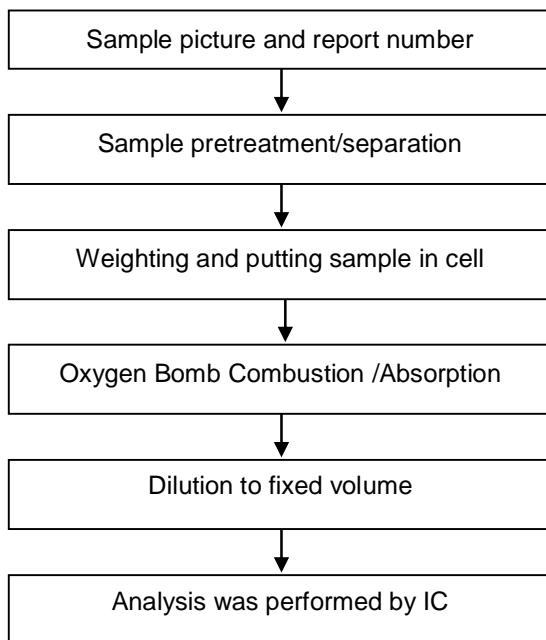
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TAIWAN NANOTECHNOLOGY CORPORATION
NO.292, GONGYEQU 38TH RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN
(R.O.C.)



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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