

Test Report

No. : KA/2013/40888 Date : 2013/04/23 Page : 1 of 8

WELON ELECTRONIC ENTERPRISE CORP.
NO.123, GUOXUAN RD., GANGSHAN DIST., KAOHSIUNG CITY 820, TAIWAN
(R.O.C.)

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

Sample Description : RESIN DIPPED TYPE OF TANTALUM ELECTROLYTIC
CAPACITORS
Style/Item No. : SERIES CB
Sample Receiving Date : 2013/04/12
Testing Period : 2013/04/12 TO 2013/04/23
Sample Submitted By : WELON ELECTRONIC ENTERPRISE CORP.

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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NO.123, GUOXUAN RD., GANGSHAN DIST., KAOHSIUNG CITY 820, TAIWAN
(R.O.C.)

Test Result(s)

PART NAME NO.1 : MIXED ALL PARTS:RESIN DIPPED TYPE OF TANTALUM ELECTROLYTIC CAPACITORS

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	9.85
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.
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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(R.O.C.)

Test Item (s):	Unit	Method	MDL	Result
				No.1
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.
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.
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.

- Note :
1. mg/kg = ppm ; 0.1wt% = 1000ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. " - " = Not Regulated
 5. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing.
The above result(s) was/were only given as the informality value.

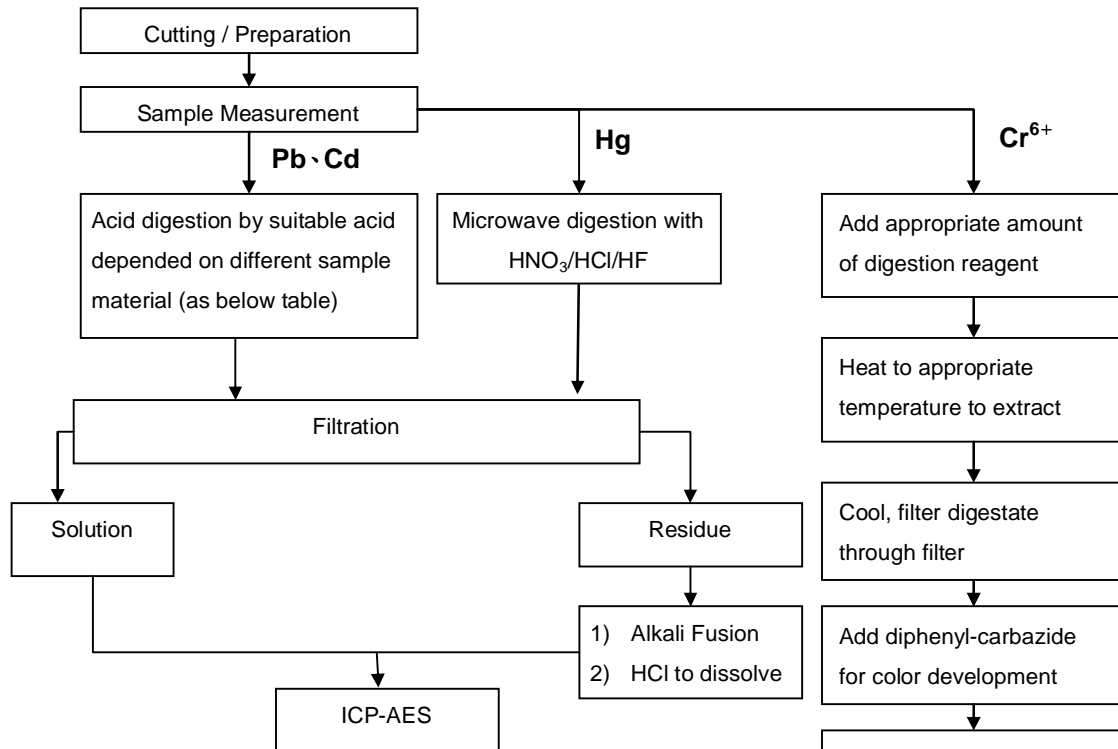
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Alex Chang
- 3) Name of the person in charge of measurement: Ray Chang



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

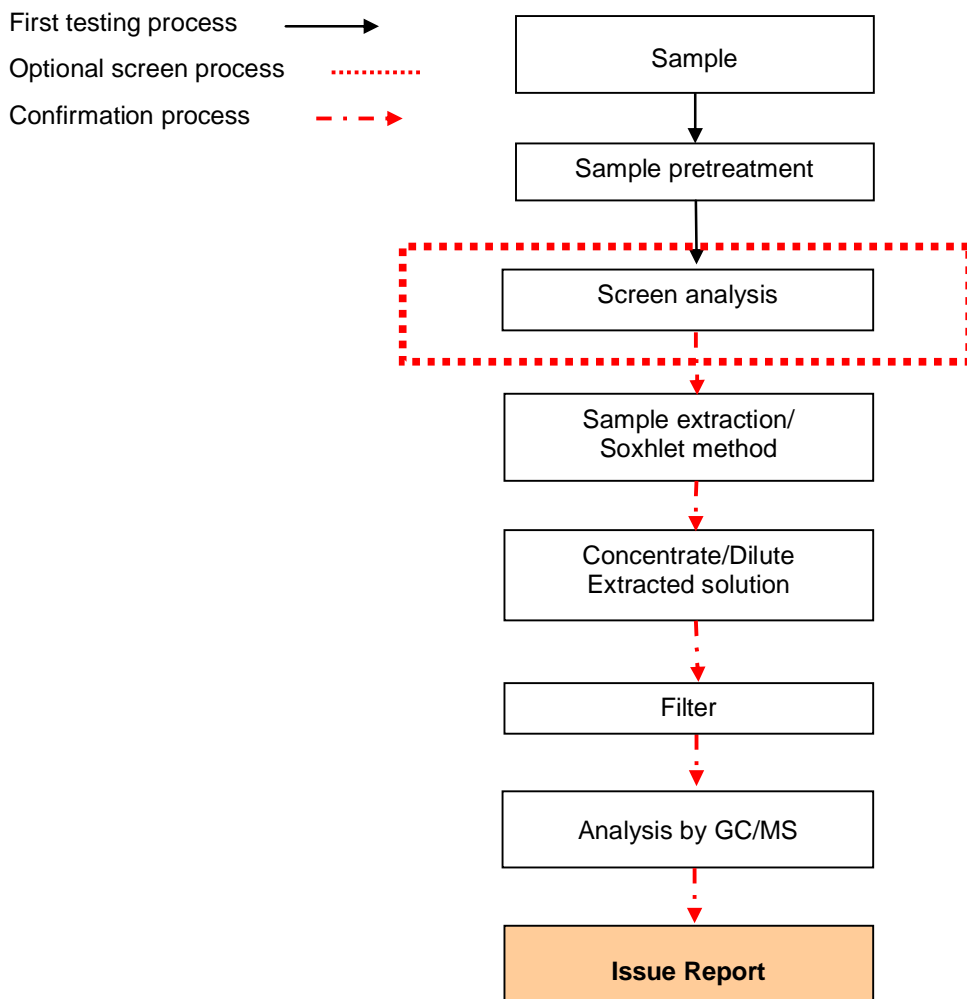
Note :** (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95 °C.
(2) For metallic material, add pure water and heat to boiling.

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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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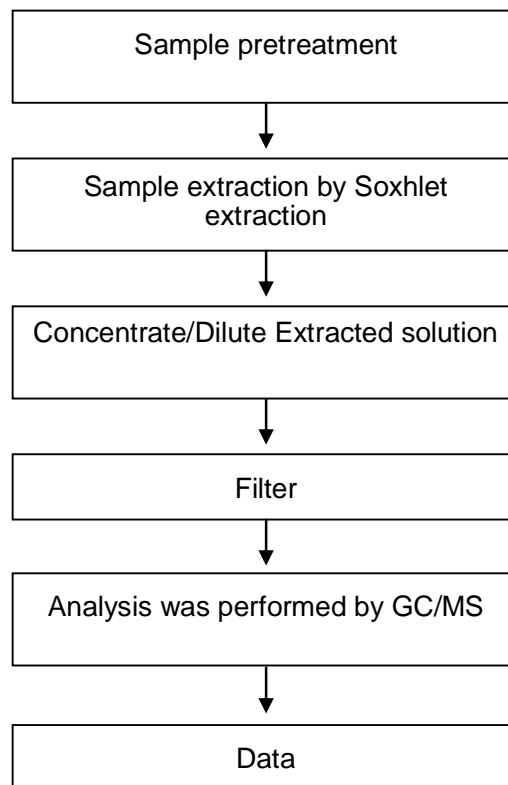
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HBCDD Analytical FLOW CHART

- 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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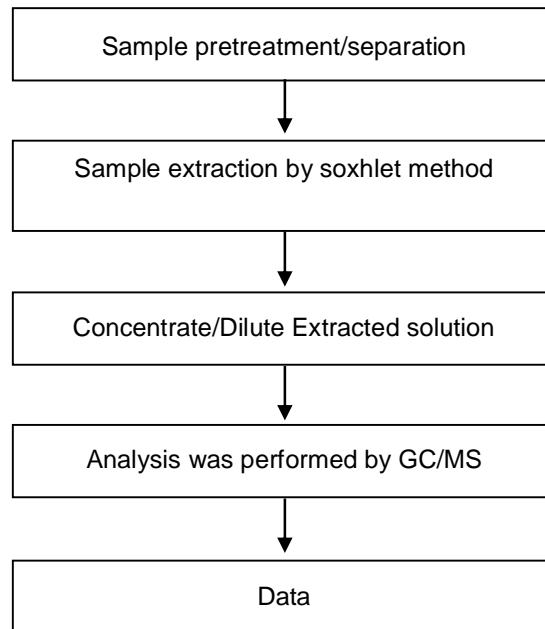
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Analytical flow chart of phthalate content

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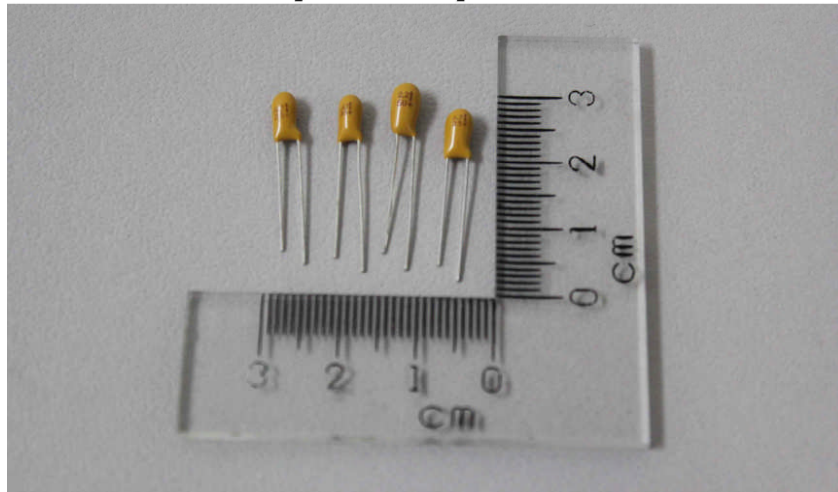
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* The tested sample / part is marked by an arrow if it's shown on the photo. *

KA/2013/40888



** End of Report **

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