

WELON ELECTRONIC ENTERPRISE CORP. NO.3-6,LIU TSUO ROAD,KANG SHAN TOWN,KAOHSIUNG HSIEN,TAIWAN.

Page: 1 of 12

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

Sample Description

SERIES CB

Style/Item No. Sample Receiving Date

2009/03/04

Testing Period

2009/03/04 TO 2009/3/12

No.: KA/2009/30292

:

Test Requested

Fifteen (15) Substances of Very High Concern (SVHC) screening in

RESIN DIPPED TYPE TANTALUM ELECTROLYTIC CAPACITORS

Date: 2009/03/12

addition of cyclododecane by specific client's request.

SVHC list based on the publication by European Chemicals Agency (ECHA) on 2008 October 28, regarding Regulation (EC) No 1907/2006

concerning the REACH.

Test Method

Please refer to next page(s).

Test Result(s)

Please refer to next page(s).

Summary

According to the specified scope and analytical technique, concentrations of all 15 SVHC are <0.1% in the submitted sample(s).

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 脸非另有說明,此報告結果推對講述之程品負責。本報告未經本公司書面許可,不可部份複製。



WELON ELECTRONIC ENTERPRISE CORP. NO.3-6,LIU TSUO ROAD,KANG SHAN TOWN,KAOHSIUNG HSIEN,TAIWAN.

Page: 2 of 12

Test Sample:

PART NAME NO.1

SILVER/OCHER RESIN DIPPED TYPE TANTALUM ELECTROLYTIC **CAPACITORS**

Date: 2009/03/12

Description	Weight %
Description	No.1
Metal	0.00%
Plastic / Rubber	0.00%
PCB / Composite Material	100.00%
Non-Metal and Non-Plastic	0.00%
Other	0.00%

Remark:

- 1. The sample as received is tested as composite mixture (>0.1% w/w of the sample composition listed in this
- 2. Definition of classification is listed in Appendix A of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006.

Test Method:

In house method with reference to US EPA 3051A, US EPA 3052, US EPA 8270D, ISO 17353: 2004-9, EN 14362-1: 2003 and analyzed by ICP/MS & ICP/AES & GC/MS and GC/FPD.

No.: KA/2009/30292

Remark:

- 1. The chemical analysis of 15 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2008 October 28, and shall refer to http://echa.europa.eu/chem data/candidate list table en.asp. This list is under evaluation by ECHA and may subject to change in the future.
- 2. In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
- 3. Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.
- 4. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明,此報告結果推對確試之程品負責。本報告未經本公司書面許可,不可部份複製。



WELON ELECTRONIC ENTERPRISE CORP. NO.3-6,LIU TSUO ROAD,KANG SHAN TOWN,KAOHSIUNG HSIEN,TAIWAN.

Page: 3 of 12

Test Result(s)

Substance Name		Concentration No.1	RL	Classification	
Anthracene (CAS No.: 000120-12-7)	%	n.d.	0.005	PBT	
4,4' - Diaminodiphenylmethane (CAS No.: 000101-77-9)	%	n.d.	0.005	Carcinogen Category 2	
Benzyl butyl phthalate (BBP) (CAS No.: 000085-68-7)	%	n.d.	0.005	Toxic to Reproduction Category 2	
Dibutyl phthalate (DBP) (CAS No.: 000084-74-2)	%	n.d.	0.005	Toxic to Reproduction Category 2	
Bis (2-ethylhexyl) phthalate (DEHP) (CAS No.: 000117-81-7)	%	n.d.	0.005	Toxic to Reproduction Category 2	
5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 000081-15-2)	%	n.d.	0.005	vPvB	
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 025637-99-4 and 003194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	%	n.d.	0.005	PBT	
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 085535-84-8)	%	n.d.	0.01	PBT	
Bis(tributyltin)oxide*** (CAS No.: 000056-35-9)	%	n.d.	0.005	PBT	
Cobalt dichloride*** (CAS No.: 007646-79-9)	%	n.d.	0.05	Carcinogen Category 2	
Lead hydrogen arsenate*** (CAS No.: 007784-40-9)	%	n.d.	0.05	Carcinogen Category 1; Toxic to Reproduction Category 1	
Triethyl arsenate*** (CAS No.: 015606-95-8)	%	n.d.	0.05	Carcinogen Category 1	
Diarsenic trioxide*** (CAS No.: 001327-53-3)		n.d.	0.05	Carcinogen Category 1	
Diarsenic pentaoxide*** (CAS No.: 001303-28-2)	%	n.d.	0.05	Carcinogen Category 1	
Sodium dichromate*** (CAS No.: 010588-01-9(*))	%	n.d.	0.05	Carcinogen Category 2; Mutagen Category 2; Toxic to Reproduction Category 2	

No.: KA/2009/30292

Date: 2009/03/12

Additional screening by client's request outside the scope of SVHC as published by ECHA on 2008 October 28:

71	Additional screening by client's request odiside the scope of ovino as published by Lon A on 2000 october 20.					
	Substance Name	Unit	Concentration	RL	Classification	
	Substance Name		No.1	11.	Classification	
C١	clododecane (CAS No.: 000294-62-2)	%	n.d.	0.005	PBT	

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

2. RL = Reporting Limit

3. n.d.= not detected = below Reporting Limit

4. ***: The substance is calculated by the test results of Tributyl Tin or element (Ex. Arsenic, Lead, Cobalt or Cr (VI) respectively).

5. (*): conc. of Sodium dichromate dihydrate = conc. of sodium dichromate X 1.1374

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 脸非另有說明,此報告結果推對講述之程品負責。本報告未經本公司書面許可,不可部份複製。



WELON ELECTRONIC ENTERPRISE CORP. NO.3-6,LIU TSUO ROAD,KANG SHAN TOWN,KAOHSIUNG HSIEN,TAIWAN.



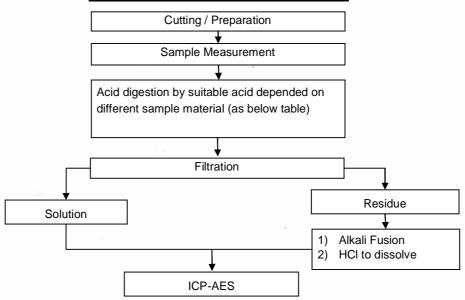
Page: 4 of 12

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

Flow Chart of Digestion for elements analysis

No.: KA/2009/30292

Date: 2009/03/12



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO₃/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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 脸非另有說明,此報告結果推對講述之程品負責。本報告未經本公司書面許可,不可部份複製。



WELON ELECTRONIC ENTERPRISE CORP. NO.3-6,LIU TSUO ROAD,KANG SHAN TOWN,KAOHSIUNG HSIEN,TAIWAN.

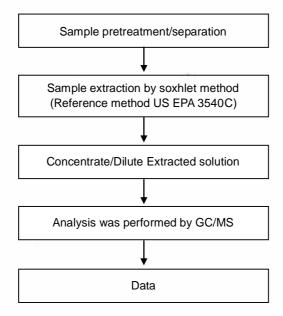
Page: 5 of 12

Analytical flow chart of phthalate content

No.: KA/2009/30292

Date: 2009/03/12

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



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 脸非另有說明,此報告結果推對講述之程品負責。本報告未經本公司書面許可,不可部份複製。



WELON ELECTRONIC ENTERPRISE CORP. NO.3-6,LIU TSUO ROAD,KANG SHAN TOWN,KAOHSIUNG HSIEN,TAIWAN.



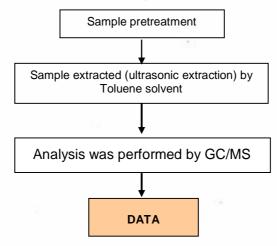
Page: 6 of 12

PAHs (PolyAromaticHydrocarbons) analytical flow chart

No.: KA/2009/30292

Date: 2009/03/12

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



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 脸非另有說明,此報告結果推對講述之程品負責。本報告未經本公司書面許可,不可部份複製。



WELON ELECTRONIC ENTERPRISE CORP. NO.3-6,LIU TSUO ROAD,KANG SHAN TOWN,KAOHSIUNG HSIEN,TAIWAN.

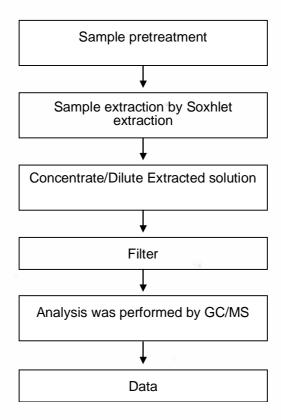
Page: 7 of 12

HBCDD Analytical FLOW CHART

No.: KA/2009/30292

Date: 2009/03/12

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



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 脸非另有說明,此報告結果推對講述之程品負責。本報告未經本公司書面許可,不可部份複製。



WELON ELECTRONIC ENTERPRISE CORP. NO.3-6,LIU TSUO ROAD,KANG SHAN TOWN,KAOHSIUNG HSIEN,TAIWAN.

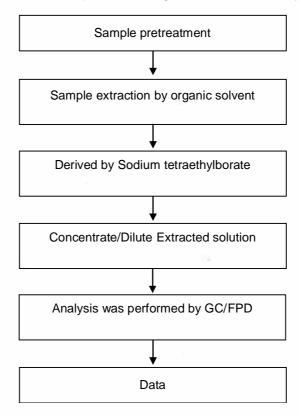
Page: 8 of 12

Analytical flow chart of Organic-Tin content

No.: KA/2009/30292

Date: 2009/03/12

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



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 脸非另有說明,此報告結果推對講述之程品負責。本報告未經本公司書面許可,不可部份複製。



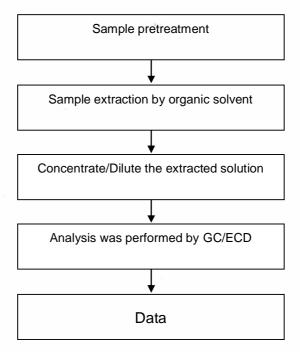
WELON ELECTRONIC ENTERPRISE CORP. NO.3-6,LIU TSUO ROAD,KANG SHAN TOWN,KAOHSIUNG HSIEN,TAIWAN. Page: 9 of 12

Chlorinated Flame retardant analytical flow chart

No.: KA/2009/30292

Date: 2009/03/12

- 1) Name of the person who made measurement: Anson Tsao
- Name of the person in charge of measurement: Ray Chang
 - Reference method: USEPA 3540
 - Test Items: CP



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 脸非另有說明,此報告結果推對講述之程品負責。本報告未經本公司書面許可,不可部份複製。



WELON ELECTRONIC ENTERPRISE CORP. NO.3-6,LIU TSUO ROAD,KANG SHAN TOWN,KAOHSIUNG HSIEN,TAIWAN. Page: 10 of 12



No.: KA/2009/30292

Date: 2009/03/12

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 資非另有說明,就接合結果接對確認之程品負責。本得包未經本公司書框評可,不可能仍被要。
This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/lerms.and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



WELON ELECTRONIC ENTERPRISE CORP. NO.3-6,LIU TSUO ROAD,KANG SHAN TOWN,KAOHSIUNG HSIEN,TAIWAN. Page: 11 of 12

Annendiy A

Classification	Definition under 67/548/EEC and Regulation (EC) No 1907/2006
Carcinogen Category 1:	Substances known to be carcinogenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and the development of cancer.
Carcinogen Category 2:	Substances which should be regarded as if they are carcinogenic to man. There is sufficient evidence to provide a strong presumption that human exposure to a substance may result in the development of cancer. Generally on the basis of: - appropriate long-term animal studies - other relevant information.
Mutagen Category 1:	Substances known to be mutagenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and heritable genetic damage.
Mutagen Category 2:	Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of: - appropriate animal studies, - other relevant information.
Toxic to Reproduction	Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between
Category 1:	human exposure to the substance and impaired fertility. Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal
	relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny.
Toxic to Reproduction	Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a
Category 2:	strong presumption that human exposure to the substance may result in impaired fertility on the basis of:
	 clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other toxic effects, other relevant information.
	Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of:
	 clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects, other relevant information.
PBT & vPvB:	Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a "safe" concentration in the environment cannot be established with sufficient reliability.

No.: KA/2009/30292

Date: 2009/03/12

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 简非另有规则,此类含品型性对抗之性高负责。本理包未联本公司资值评可,不可应价规则。 This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's indings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unsuthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



WELON ELECTRONIC ENTERPRISE CORP. NO.3-6,LIU TSUO ROAD,KANG SHAN TOWN,KAOHSIUNG HSIEN,TAIWAN.

Page: 12 of 12

Appendix B

Appoilant =				
SVHC SURVEY FORM				
Company Name	WELON ELECTRONIC ENTERPRISE CORP.			
Product name	RESIN DIPPED TYPE TANTALUM ELECTROLYTIC CAPACITORS			
Product weight	0.34 g			
Report No.	KA/2009/30292			

No.: KA/2009/30292

Date: 2009/03/12

Substance identification

Substance name	Concentratio n (%)	weight (mg)	providing information about safe use according to Article 33 is necessary
Anthracene (CAS No.: 000120-12-7)	n.d.	N/A	No
4,4' - Diaminodiphenylmethane (CAS No.: 000101-77-9)	n.d.	N/A	No
Benzyl butyl phthalate (BBP) (CAS No.: 000085-68-7)	n.d.	N/A	No
Dibutyl phthalate (DBP) (CAS No.: 000084-74-2)	n.d.	N/A	No
Bis (2-ethylhexyl) phthalate (DEHP) (CAS No.: 000117-81-7)	n.d.	N/A	No
5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 000081-15-2)	n.d.	N/A	No
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 025637-99-4 and 003194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	n.d.	N/A	No
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 085535-84-8)	n.d.	N/A	No
Bis(tributyltin)oxide*** (CAS No.: 000056-35-9)	n.d.	N/A	No
Cobalt dichloride*** (CAS No.: 007646-79-9)	n.d.	N/A	No
Lead hydrogen arsenate*** (CAS No.: 007784-40-9)	n.d.	N/A	No
Triethyl arsenate*** (CAS No.: 015606-95-8)	n.d.	N/A	No
Diarsenic trioxide*** (CAS No.: 001327-53-3)	n.d.	N/A	No
Diarsenic pentaoxide*** (CAS No.: 001303-28-2)	n.d.	N/A	No
Sodium dichromate*** (CAS No.: 010588-01-9(*))	n.d.	N/A	No
Cyclododecane (CAS No.: 000294-62-2)	n.d.	N/A	No

Note: N/A = Non-Available

** End of Report **

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 脸非另有說明,此報告結果推對講述之程品負責。本報告未經本公司書面許可,不可部份複製。