

No. CTSSA/17258/14 Date: 15/10/2014

CTS Ref. CTSSA/14/2512/Tanaka

TANAKA ELECTRONICS (M) SDN BHD PLOT 11, PHASE IV, BAYAN LEPAS FREE INDUSTRIAL ZONE 11900 PENANG, MALAYSIA

The following merchandise was (were) submitted and identified by the client as:

Sample Description : GLD

Sample Receiving Date : 02/09/2014

Testing Date : 02/09/2014 to 14/10/2014

 Date Completed
 : 14/10/2014

 Reporting Date
 : 15/10/2014

Test Requested : Selected test(s) as requested by client

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

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

Analysts : Loh Mei Theng, Tay Siam Pine & Yee Sook Wai

SGS (MALAYSIA) SDN. BHD.

YÉE SOOK WAI B.Sc.(HONS) AMIC ASST. MANAGER

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Page: 1 of 13



Test Report No. CTSSA/17258/14 Date: 15/10/2014 Page: 2 of 13

CTS Ref. CTSSA/14/2512/Tanaka

Test results:

Test Part Description:

Sample Description : GLD

RoHS Directive 2011/65/EU Annex II

Test Item(s):	Unit	Test Method	Results	MDL	Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	N.D.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	N.D.	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	N.D.	2	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to JIS H 8625, and performed by UV-VIS Spectrophotometry	N.D.	2	1000
Hexavalent Chromium (CrVI) by Spot test / boiling water extraction (optional) #		With reference to IEC 62321:2008	Negative	-	-
Sum of PBBs	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	N.D.	-	1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	N.D.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	N.D.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	N.D.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	N.D.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	N.D.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	N.D.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	N.D.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	N.D.	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	N.D.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321:2008 (Determination of PBB by GC-MS)	N.D.	5	-

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No. CTSSA/17258/14 Date: 15/10/2014

CTS Ref. CTSSA/14/2512/Tanaka

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Sum of PBDEs	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	N.D.	5	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	N.D.	5	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	N.D.	5	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	N.D.	5	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	N.D.	5	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	N.D.	5	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	N.D.	5	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008 (Determination of PBDE by GC-MS)	N.D.	5	-

Note:

- (a) mg/kg = ppm; 0.1wt% = 1000ppm
- (b) N.D.= Not Detected
- (c) MDL = Method Detection Limit
- (d) # = a. Positive means the presence of CrVI on the tested areas
 - b. Negative means the absence of CrVI on the tested areas

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results or Cr(VI) represent status of the sample at the time of testing represent status of the sample at the time of testing.

(e) - = not regulated

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Page: 3 of 13



No. CTSSA/17258/14 Date: 15/10/2014

CTS Ref. CTSSA/14/2512/Tanaka

Test results by chemical method:

Test Item (s):	Unit	Method	Result	MDL
Antimony (Sb)	mg/kg	With reference to EPA Method 3051A, and performed by ICP-OES	N.D.	2
Magnesium (Mg)	mg/kg	With reference to EPA Method 3051A, and performed by ICP-OES	N.D.	2
Beryllium (Be)	mg/kg	With reference to EPA Method 3051A, and performed by ICP-OES	N.D.	2
Polyvinylchloride (PVC)	**	Analysis was performed by FT-IR/ATR	Negative	-
Halogen				
Halogen-Fluorine (F)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC method for Fluorine content.	N.D.	50
Halogen-Chlorine (CI)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC method for Chlorine content.	N.D.	50
Halogen-Bromine (Br)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC method for Bromine content.	N.D.	50
Halogen-lodine (I)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC method for lodine content.	N.D.	50

Test Part Description:

Sample Description : GLD

Note: (a) mg/kg = ppm

(b) N.D. = Not Detected(c) --- = Not Conducted(d) "-" = Not regulated

(e) ** = Qualitative analysis (no unit) (f) MDL= Method Detection Limit

(g) Negative = Undetectable / Positive = Detectable

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Page: 4 of 13



No. CTSSA/17258/14 Date: 15/10/2014

CTS Ref. CTSSA/14/2512/Tanaka

Test results by chemical method:

Test Item (s):	Unit	Method	Result	MDL
Hexabromocyclododecane (HBCDD)	mg/kg	Based on IEC62321 , and performed by GC-MS	N.D.	10
Phthalates				
DBP (Di-butyl phthalate)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.003
DEHP (Di-(2-ethylhexyl phthalate)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.003
DNOP (Di-n-octyl phthalate)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.003
DINP (Di-isononyl phthalate)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.01
DIDP (Di-isodecyl phthalate	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.01
BBP (Benzyl Butyl phthalate)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.003
DNHP (Di-n-hexyl phthalate)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.003
DMEP (Bis(2-methoxyethyl)phthalate)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.003
DIBP (Di-isobutyl phthalate)	%	With reference to Chromatographia Vol.47, No.784, 1998. Analysis was performed by GC/MS.	N.D.	0.003

Test Part Description:

Sample Description : GLD

Note: (a) mg/kg = ppm

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) --- = Not Conducted

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Page: 5 of 13



Test Report No. CTSSA/17258/14 Date: 15/10/2014 Page: 6 of 13

CTS Ref. CTSSA/14/2512/Tanaka

Test Part Description:

Sample Description : GLD

Test results:

Test Item (s):	Unit	Method	Result	MDL
Dimethyl Fumarate (CAS No. 624-49-7)	mg/kg	With reference to US EPA 3550C method. Analysis was performed by GC/MS.	N.D.	0.1
Perfluorooctane sulfonates (PFOS) PFOS – Acid, Metal Salt, Amide	mg/kg	With reference to US EPA 3540C: 1996 method for PFOS content. Analysis was performed by LC/MS.	N.D.	10
PFOA (CAS No.: 000335-67-1)	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA content. Analysis was performed by LC/MS.	N.D.	10

Note: (a) mg/kg = ppm

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) --- = Not Conducted

PFOS Reference Information: POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu g/m^2$.

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No. CTSSA/17258/14 Date: 15/10/2014

CTS Ref. CTSSA/14/2512/Tanaka

Test Part Description:

Sample Description : GLD

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Page: 7 of 13



No. CTSSA/17258/14

Date: 15/10/2014 CTS Ref. CTSSA/14/2512/Tanaka

2. <u>DETERMINATION OF LEAD CONTENT BY</u> IEC 62321-5 2013

Sample Receiving and Registration

Page: 8 of 13

Cut sample in small pieces

Weight sample (0.2-0.5g) into digestion vessel

Acid digestion (Microwave)

"Totally Dissolved"

Filtration

Analyses by ICP

1. DETERMINATION OF CADMIUM CONTENT BY IEC 62321-5 2013

Sample Receiving and Registration

Cut sample in small pieces

Weight sample (0.2-0.5g) into digestion vessel

Acid digestion (Microwave)

"Totally Dissolved"

Filtration

Analyses by ICP

3. DETERMINATION OF MERCURY CONTENT BY IEC 62321-4 2013

Sample Receiving and Registration

Cut sample in small pieces

Weight sample (0.1-0.5g) into digestion vessel

Acid digestion (Microwave)

"Totally Dissolved"

Filtration

Analyses by ICP

4. DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321 2008

Sample Receiving and Registration

Sample Preparation

Spot-test (Qualitative)

Boiling-water-extraction

Analyses by UV- Spectrophotometer

Test Report

5. DETERMINATION OF PBB/PBDE WITH GC-MS BY IEC 62321 2008

Cut sample in small pieces

Weight sample (0.5-4.0g) into extraction thimble

Soxhlet Extraction with Toluene

Filter through 0.45 um membrane filter

Analyses by GC-MS (with appropriate dilution)

6. DETERMINATION OF HEXAVALENT CHROMIUM

BY JIS H 8625

Sample Preparation

Hot water extraction

Add colour-developing reagent

Let stand for 5-10 min

Analyses by UV- Spectrophotometer (540 nm)

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No. CTSSA/17258/14 Date: 15/10/2014

CTS Ref. CTSSA/14/2512/Tanaka

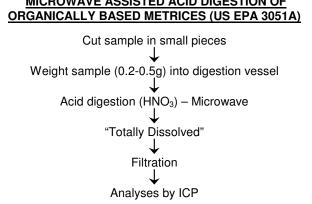
<u>MICROWAVE ASSISTED ACID DIGESTION OF ORGANICALLY BASED METRICES (US EPA 3051A</u> Sample pretreatment

Weighting and putting sample in cell \downarrow

Combustion / Absorption

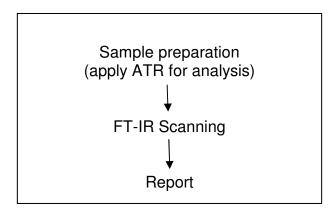
Dilution to fixed volume

Analyses by IC



Page: 9 of 13

FLOW CHART FOR PVC DETECTION WITH FTIR



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No. CTSSA/17258/14 Date: 15/10/2014

CTS Ref. CTSSA/14/2512/Tanaka

DETERMINATION OF HBCDD CONTENT

Cut sample in small pieces

Weight sample (0.5-4.0g) into extraction thimble

Soxhlet Extraction with Toluene

Filter through 0.45 um membrane filter

Analyses by GC-MS (with appropriate dilution)

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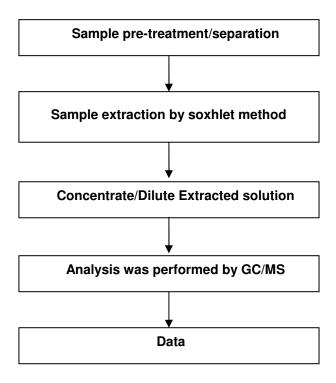
Page: 10 of 13



No. CTSSA/17258/14 Date: 15/10/2014

CTS Ref. CTSSA/14/2512/Tanaka

Analytical flow chart of Phthalates Content



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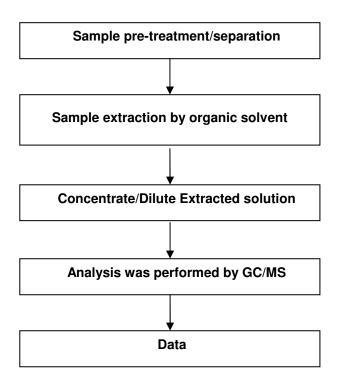
Page: 11 of 13



No. CTSSA/17258/14 Date: 15/10/2014

CTS Ref. CTSSA/14/2512/Tanaka

Analytical Flow Chart for Dimethyl Fumarate



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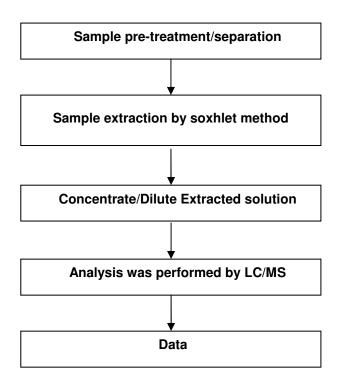
Page: 12 of 13



No. CTSSA/17258/14 Date: 15/10/2014

CTS Ref. CTSSA/14/2512/Tanaka

Analytical Flow Chart of PFOS & PFOA Content



**** End of Report ****

SGS (MALAYSIA) SDN. BHD.

YÉE SOOK WAI B.Sc.(HONS) AMIC ASST. MANAGER

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Page: 13 of 13