

No.: KA/2013/50400 Date: 2013/05/14

MINMAX TECHNOLOGY CO.,LTD 18, SHIN-SIN ROAD, TAINAN 702, TAIWAN

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

Sample Description : DC-DC CONVERTER Style/Item No. : MA01-XXXXXHI SERIES

Sample Receiving Date : 2013/05/07

2013/05/07 TO 2013/05/14 **Testing Period** 

Sample Submitted By : MINMAX TECHNOLOGY CO.,LTD

: As specified by client, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents **Test Requested** 

in the submitted sample.

With reference to IEC 62321: 2008. **Test Method** 

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

Ray Chang / Asst. Manage Signed for and on behalf of

**SGS Taiwan Limited** 

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#### Test Result(s)

PART NAME No.1 MIXED ALL PARTS:DC-DC CONVERTER

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	6.59
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	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	mg/kg		5	n.d.
Dibromobiphenyl	mg/kg		5	n.d.
Tribromobiphenyl	mg/kg		5	n.d.
Tetrabromobiphenyl	mg/kg		5	n.d.
Pentabromobiphenyl	mg/kg		5	n.d.
Hexabromobiphenyl	mg/kg		5	n.d.
Heptabromobiphenyl	mg/kg		5	n.d.
Octabromobiphenyl	mg/kg		5	n.d.
Nonabromobiphenyl	mg/kg		5	n.d.
Decabromobiphenyl	mg/kg		5	n.d.
Sum of PBDEs	mg/kg		-	n.d.
Monobromodiphenyl ether	mg/kg		5	n.d.
Dibromodiphenyl ether	mg/kg		5	n.d.
Tribromodiphenyl ether	mg/kg		5	n.d.
Tetrabromodiphenyl ether	mg/kg		5	n.d.
Pentabromodiphenyl ether	mg/kg		5	n.d.
Hexabromodiphenyl ether	mg/kg		5	n.d.
Heptabromodiphenyl ether	mg/kg		5	n.d.
Octabromodiphenyl ether	mg/kg		5	n.d.
Nonabromodiphenyl ether	mg/kg		5	n.d.
Decabromodiphenyl ether	mg/kg		5	n.d.

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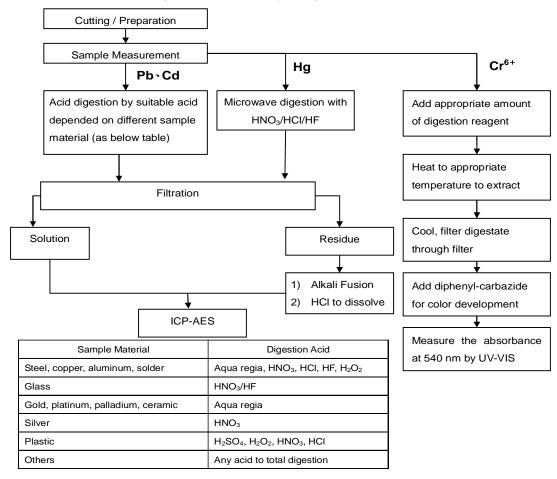
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Alex Chang
- Name of the person in charge of measurement: Ray Chang



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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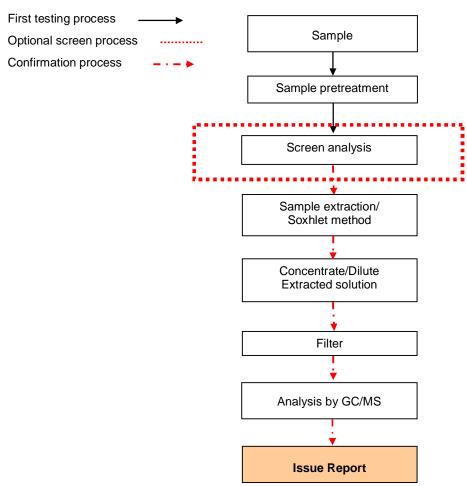


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## PBB/PBDE analytical FLOW CHART

- 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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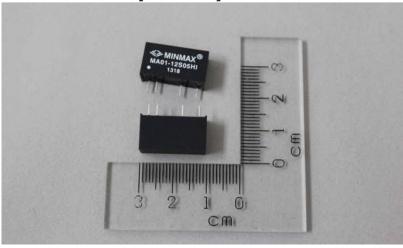


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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

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\*\* End of Report \*\*

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