

## Test Report

No. : KA/2011/91590

Date : 2011/10/04

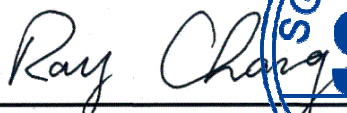
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MINMAX TECHNOLOGY CO.,LTD  
18,SHIN-SIN ROAD,TAINAN 702,TAIWAN

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

Sample Description : DC/DC CONVERTER  
Style/Item No. : MA03-XXXXX SERIES  
Sample Receiving Date : 2011/09/28  
Testing Period : 2011/09/28 TO 2011/10/04  
Sample Submitted By : MINMAX TECHNOLOGY CO.,LTD

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

  
Ray Chang / Asst. Manager  
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 CONVERTERR

| 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    | 54.9   |
| 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.   |
| <b>Sum of PBBs</b>         | 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.   |
| <b>Sum of PBDEs</b>        | 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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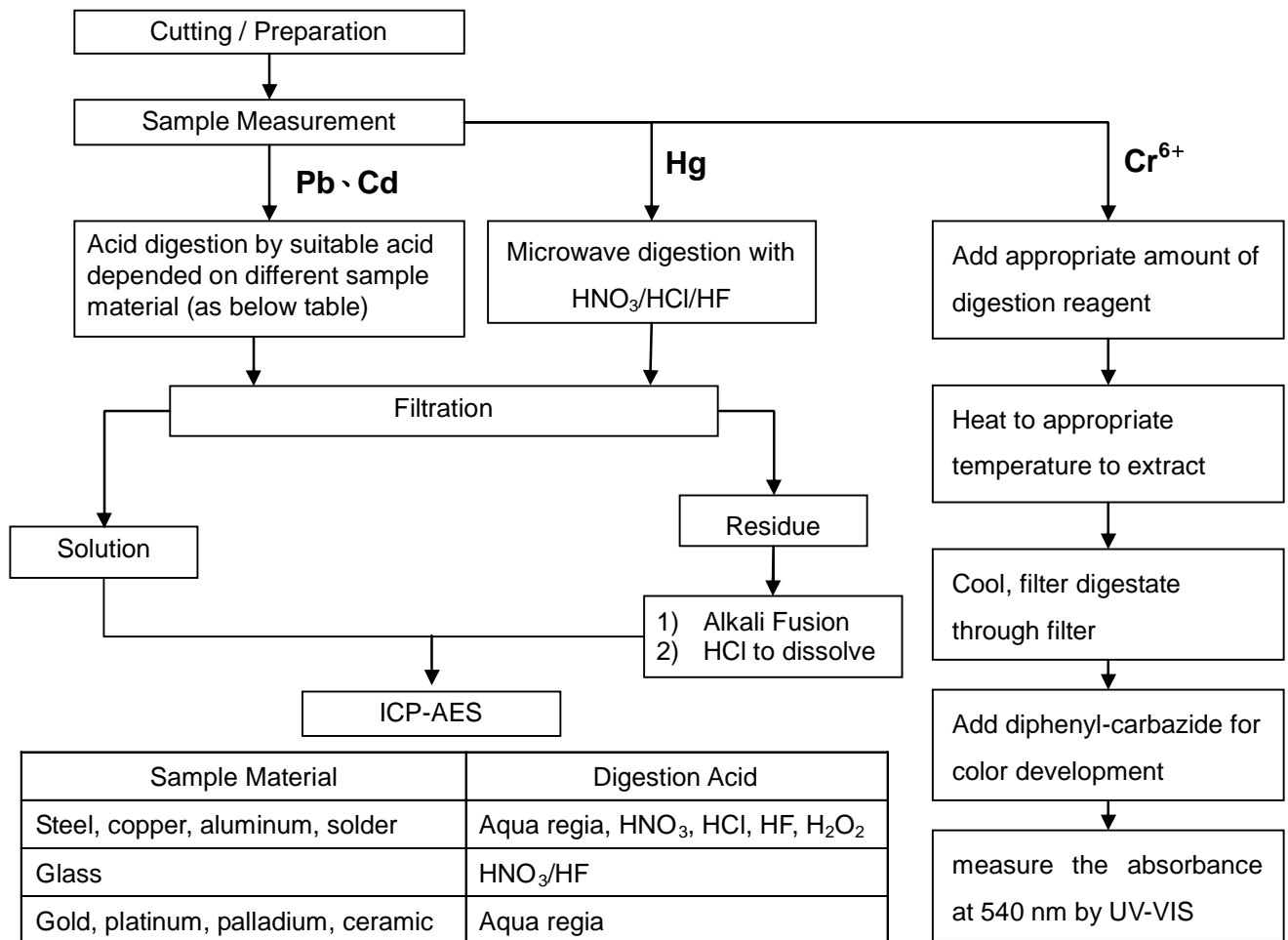
## Note :

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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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Alex Chang
- 3) Name of the person in charge of measurement: Ray Chang



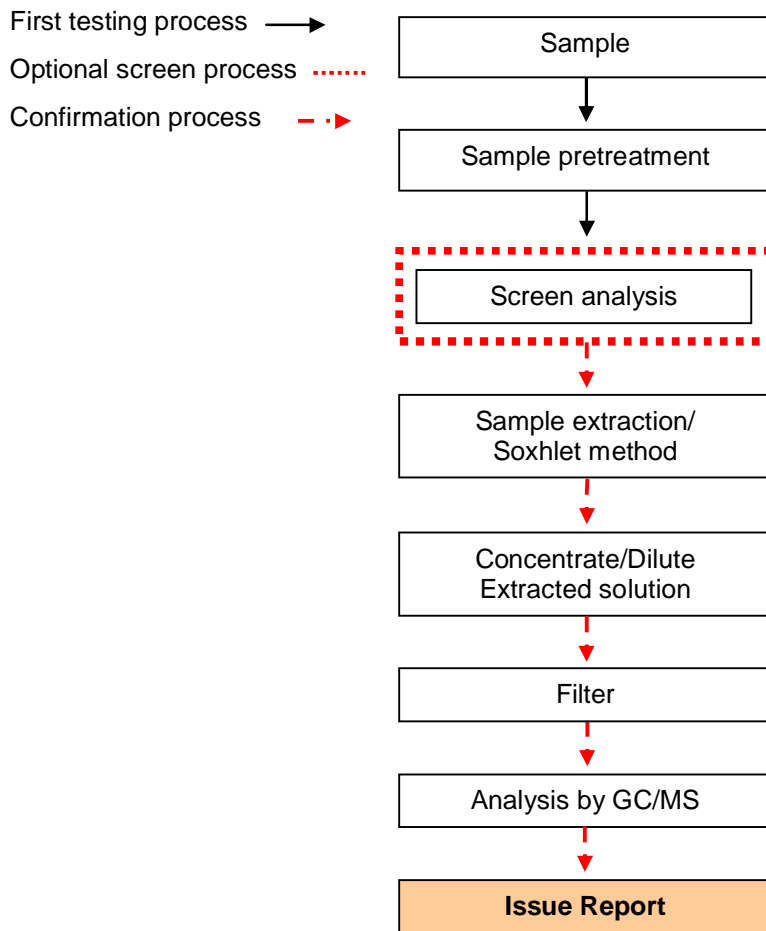
| Sample Material                    | Digestion Acid                                                                          |
|------------------------------------|-----------------------------------------------------------------------------------------|
| Steel, copper, aluminum, solder    | Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>                   |
| Glass                              | HNO <sub>3</sub> /HF                                                                    |
| Gold, platinum, palladium, ceramic | Aqua regia                                                                              |
| Silver                             | HNO <sub>3</sub>                                                                        |
| Plastic                            | H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl |
| Others                             | Any acid to total digestion                                                             |

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### PBB/PBDE analytical FLOW CHART

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



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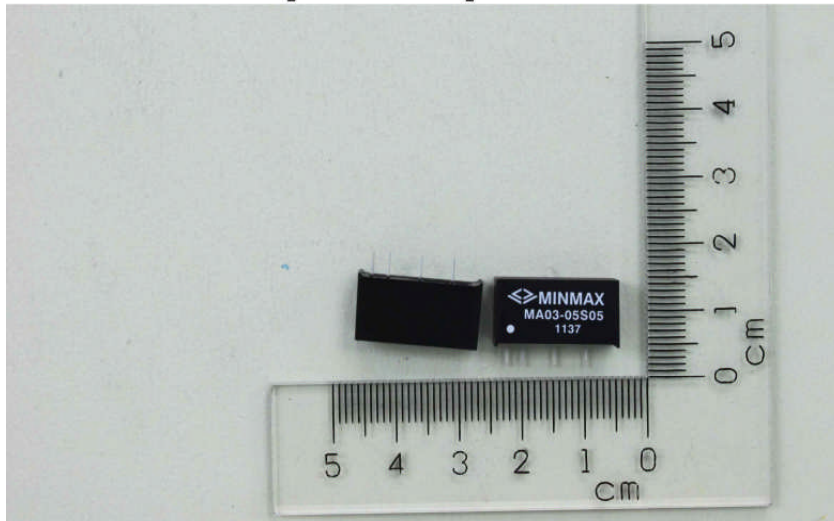
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\*The tested sample / part is marked by an arrow if it's shown on the photo.\*

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\*\* End of Report \*\*

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