



# Test Report

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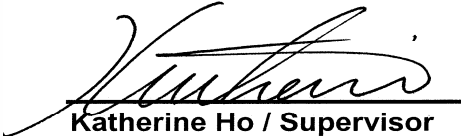


MINMAX TECHNOLOGY CO.,LTD  
18,SHIN-SIN ROAD,AN-PING INDUSTRIAL DISTRICT,TAINAN,702 TAIWAN

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

Sample Description : AC/DC POWER MODULES  
Style/Item No. : ADF-07XXX SERIES  
Sample Receiving Date : 2008/08/14  
Testing Period : 2008/08/14 TO 2008/8/20

=====  
**Test Requested** : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.  
**Test Method** : With reference to IEC 62321/2nd CDV (111/95/CDV) Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products  
: (1) Determination of Cadmium by ICP-AES.  
: (2) Determination of Lead by ICP-AES.  
: (3) Determination of Mercury by ICP-AES.  
: (4) Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.  
: (5) Determination of PBB and PBDE by GC/MS.  
**Test Result(s)** : Please refer to next page(s).

  
Katherine Ho / Supervisor  
Signed for and on behalf of  
SGS Taiwan Limited

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Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
<b>Sum of PBBs</b>	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
<b>Sum of PBDEs</b>		n.d.	-
Monobromodiphenyl ether		n.d.	5
Dibromodiphenyl ether		n.d.	5
Tribromodiphenyl ether		n.d.	5
Tetrabromodiphenyl ether		n.d.	5
Pentabromodiphenyl ether		n.d.	5
Hexabromodiphenyl ether		n.d.	5
Heptabromodiphenyl ether		n.d.	5
Octabromodiphenyl ether		n.d.	5
Nonabromodiphenyl ether		n.d.	5
Decabromodiphenyl ether		n.d.	5

**TEST PART DESCRIPTION:**

NO.1

: MIX ALL PARTS:GREY/BLUE/SILVER AC/DC POWER MODULES

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- Note :
1. mg/kg = ppm
  2. n.d. = Not Detected
  3. MDL = Method Detection Limit
  4. The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008
  5. " - " = Not Regulated
  6. " --- " = Not Conducted

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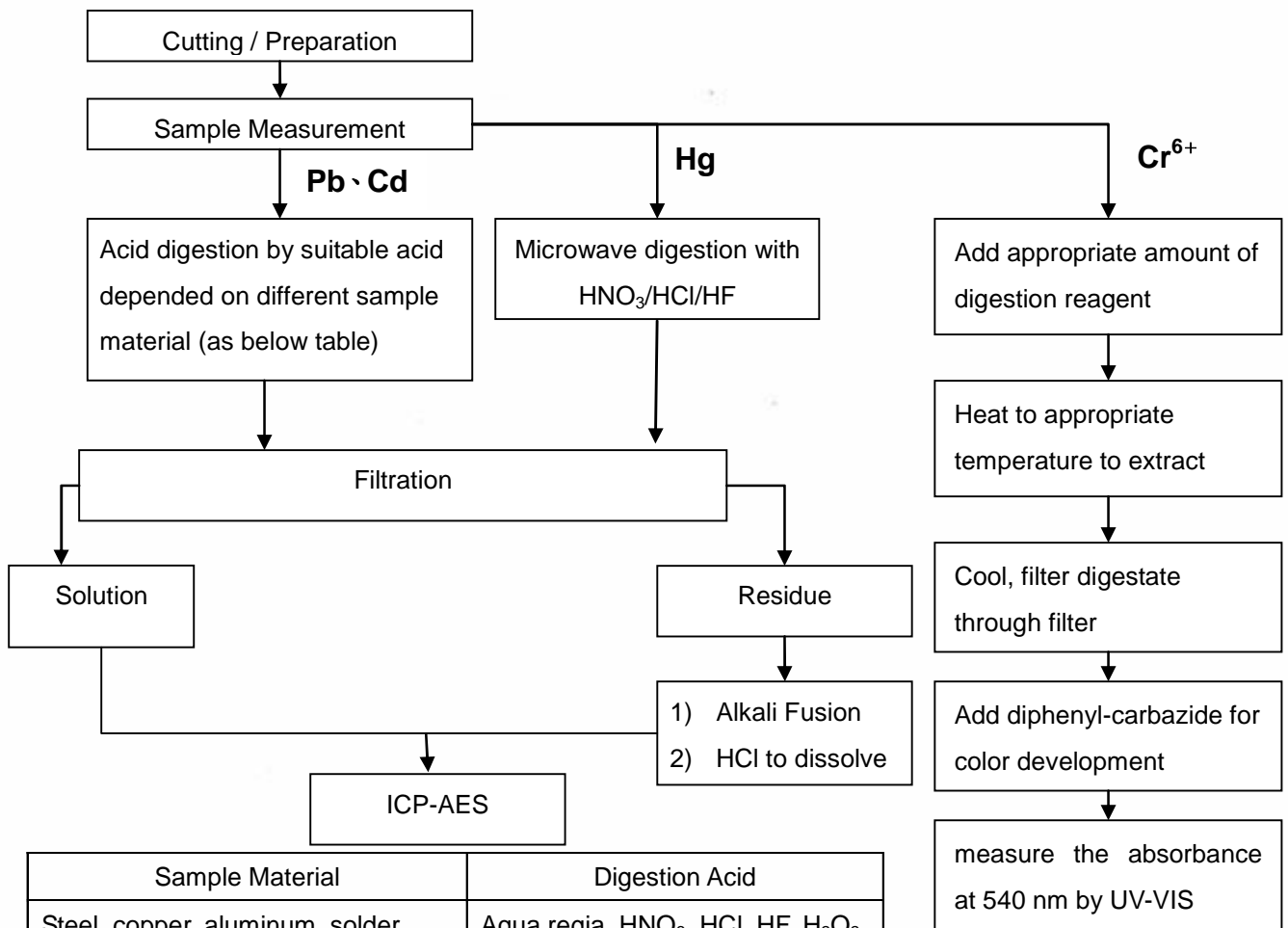
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
( Cr6+ test method excluded )
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: Ray Chang



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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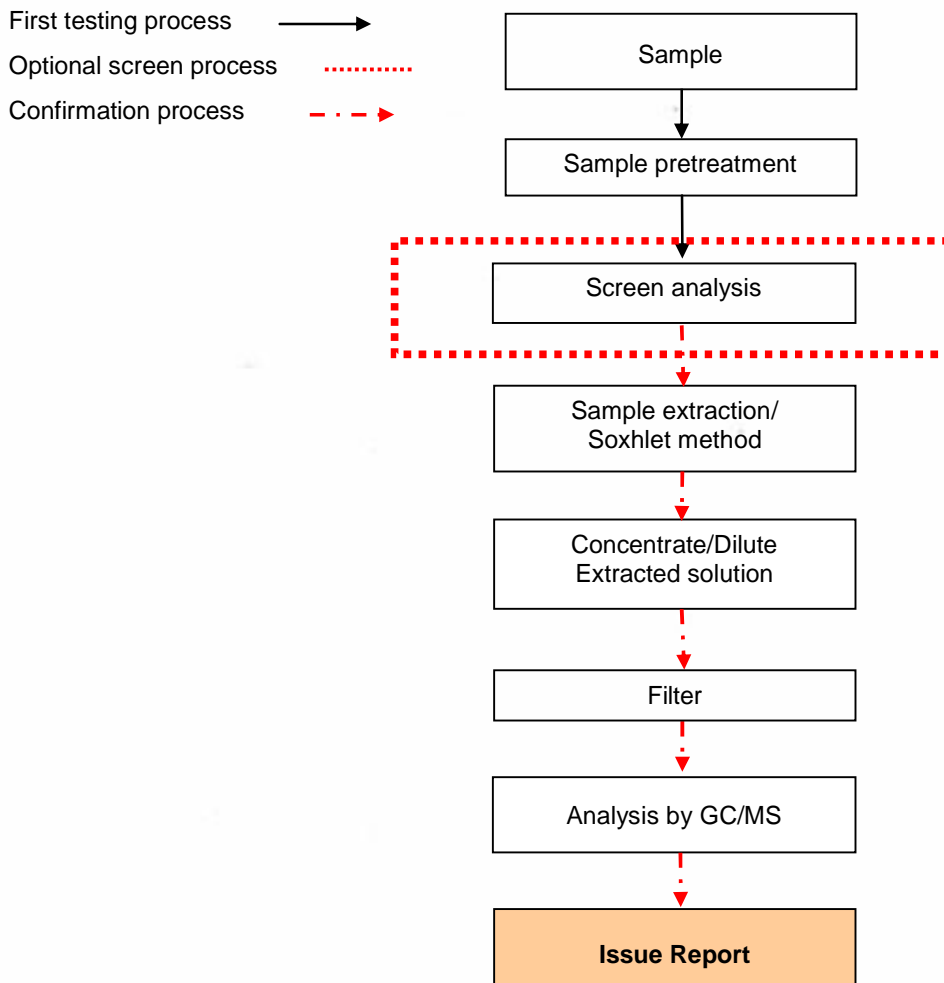
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### PBB/PBDE analytical FLOW CHART

- 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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\*\* End of Report \*\*

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