

Test Report

No. : CE/2008/77146

Date : 2008/08/01

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CASIO MICRONICS CO., LTD.
10-6, IMAI 3-CHOME, OME-SHI TOKYO 198-8555, JAPAN



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

Sample Description : RDL (POST Cu)
Style/Item No. : WF NO.12
Sample Receiving Date : 2008/07/24
Testing Period : 2008/07/24 TO 2008/08/01

=====
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method :
(1) With reference to US EPA Method 3052 for Cadmium Content. Analysis was performed by ICP-AES.
(2) With reference to US EPA Method 3052 for Lead Content. Analysis was performed by ICP-AES.
(3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
(4) With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium for non-metallic samples. Analysis was performed by UV/Vis Spectrometry.
(5) With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.

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

Conclusion : Based on the performed tests on submitted samples, the test results are **compliant with** the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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

Test Item (s):	Method (Refer to)	Result	MDL	RoHS Limit
		No.1		
Cadmium (Cd)	(1)	n.d.	2	100
Lead (Pb)	(2)	n.d.	2	1000
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium Cr(VI)	(4)	n.d.	2	1000
Sum of PBBs	(5)	n.d.	-	1000
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	-
Sum of PBDEs		n.d.	-	1000
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 : RDL (POST Cu)

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- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. "-" = Not Regulated
 5. Testing Equipment / Model :

Test Item	Method	Instrument maker	Instrument model
Cr (VI)	UV-VIS	Varian	Cary 50
Cd	ICP-AES	Varian	Vista Pro
Pb	ICP-AES	Varian	Vista Pro
Hg	ICP-AES	Varian	Vista Pro
PBBs	GC/MS	Agilent	6890N/5975N
PBDEs	GC/MS	Agilent	6890N/5975N

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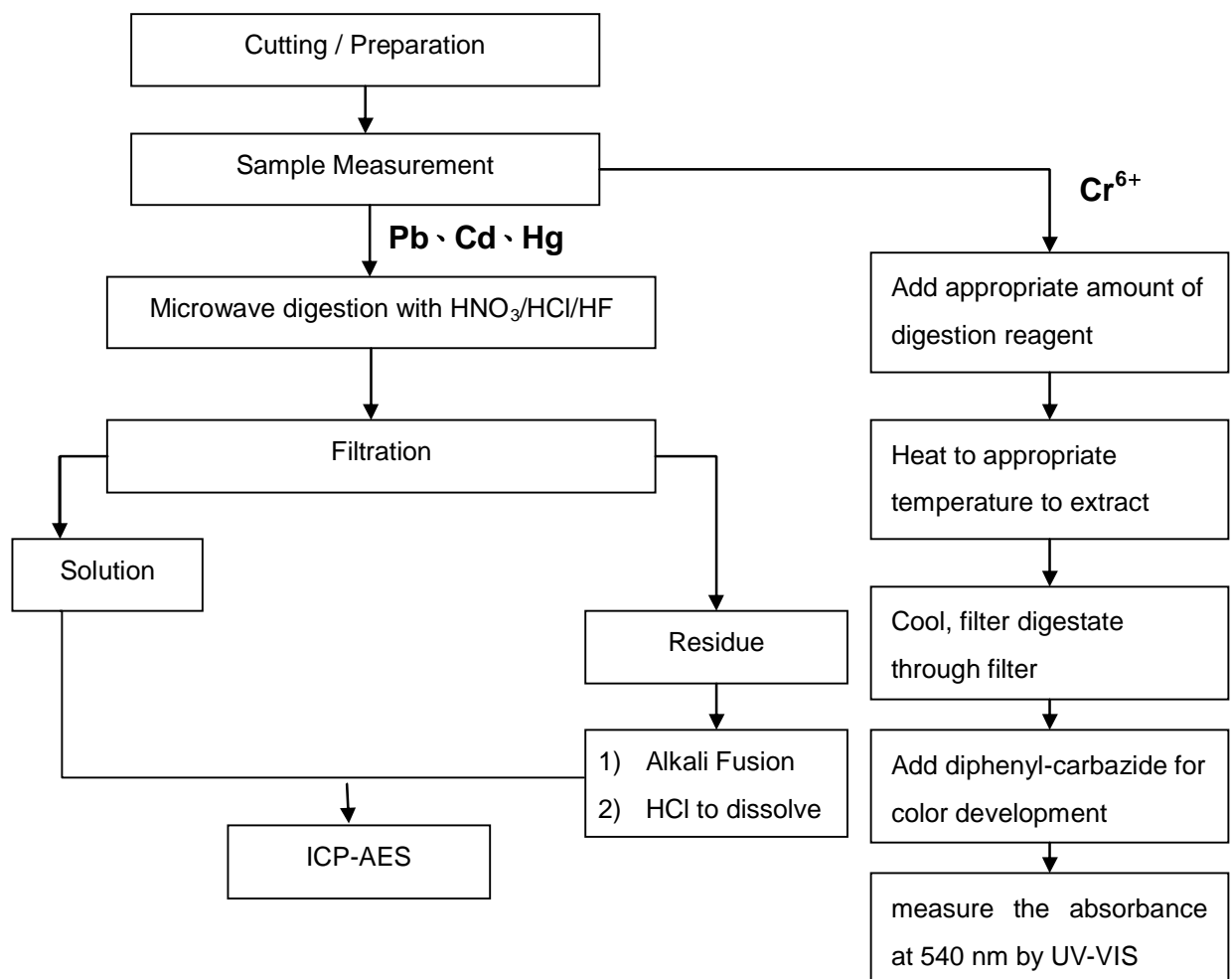
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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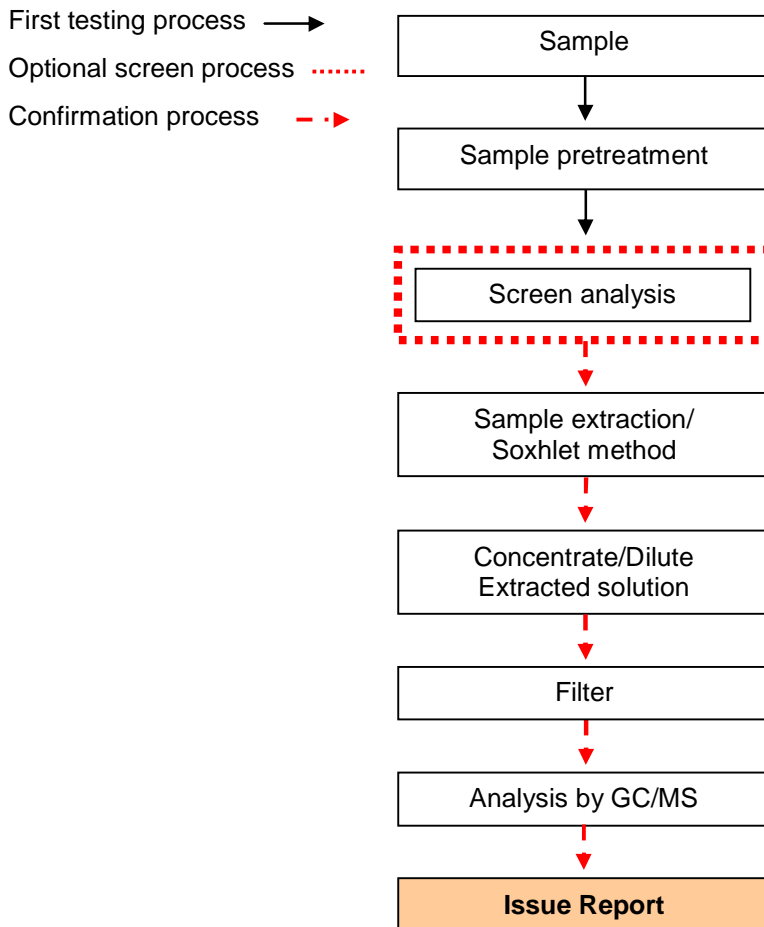
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PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen



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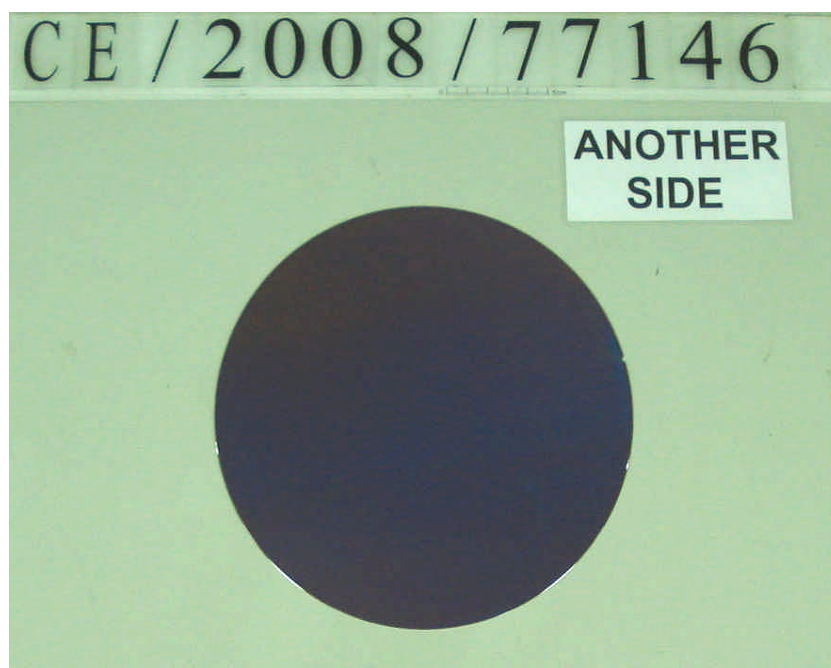
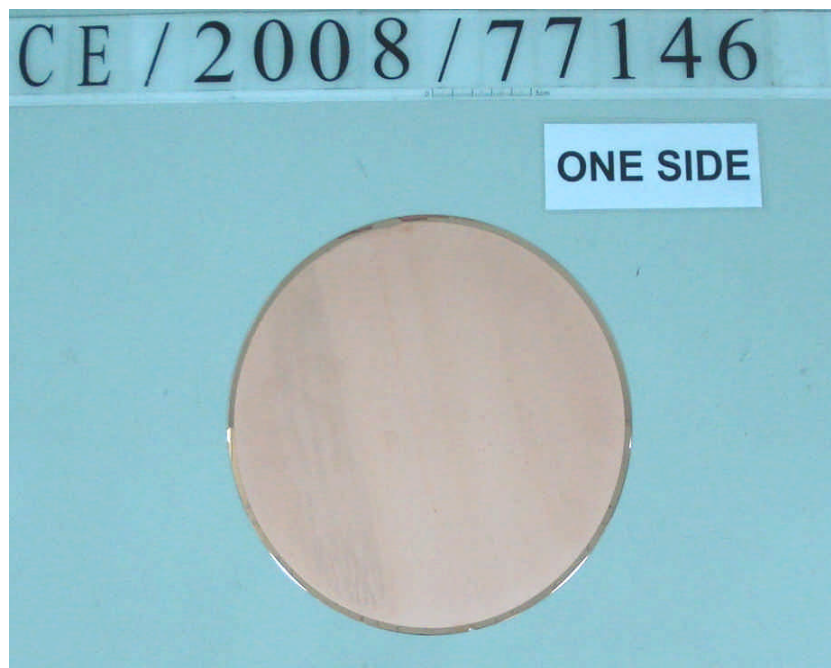
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** End of Report **

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