

No.: CE/2008/46564 Date: 2008/04/29 Page: 1 of 7

CITIZEN MIYOTA CO., LTD. 4107-5 MIYOTA KITASAKU NAGANO PREF 389-0294 JAPAN The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : T/F CRYSTAL UNITS (SMD CERAMIC PACKAGE)

Style/Item No. : CM519
Buyer/Order No. : MYT08C59
Sample Receiving Date : 2008/4/22

Testing Period : 2008/4/22 TO 2008/4/29

\_\_\_\_\_\_

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

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



No.: CE/2008/46564 Date: 2008/04/29 Page: 2 of 7

CITIZEN MIYOTA CO., LTD. 4107-5 MIYOTA KITASAKU NAGANO PREF 389-0294 JAPAN

#### 

#### Test Result(s)

PART NAME NO.1 : MIXED ALL PARTS

Took Home (a)	l log!4		MDI	Result	
Test Item (s):	Unit	Method	MDL	No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.	
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	n.d.	
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.	
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.	
Halogen-Chlorine (CI) (CAS No.: 007782-50-5)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.	
Halogen-Bromine (Br) (CAS No.: 007726-95-6)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.	



No.: CE/2008/46564 Date: 2008/04/29 Page: 3 of 7

CITIZEN MIYOTA CO., LTD. 4107-5 MIYOTA KITASAKU NAGANO PREF 389-0294 JAPAN

	 	111111				н
		ш	ш	ш	ш	

Tool Hom (a):	l Init	Mathad	MDL	Result
Test Item (s):	Unit	Method	MDL	No.1
Sum of PBBs		With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	-	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl	Ì		5	n.d.
Tetrabromobiphenyl	Ī		5	n.d.
Pentabromobiphenyl	Ī		5	n.d.
Hexabromobiphenyl	Ī		5	n.d.
Heptabromobiphenyl	mg/kg		5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl			5	n.d.
Sum of PBDEs (Mono to Nona)			-	n.d.
(Note 4)				
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether	Ī		5	n.d.
Tribromodiphenyl ether	Ī		5	n.d.
Tetrabromodiphenyl ether			5	n.d.
Pentabromodiphenyl ether			5	n.d.
Hexabromodiphenyl ether			5	n.d.
Heptabromodiphenyl ether			5	n.d.
Octabromodiphenyl ether			5	n.d.
Nonabromodiphenyl ether			5	n.d.
Decabromodiphenyl ether			5	n.d.
Sum of PBDEs (Mono to Deca)			-	n.d.

Note: 1. mg/kg = ppm

- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. According to 2005/717/EC DecaBDE is exempt.
- 5. " " = Not Regulated
- 6. 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.

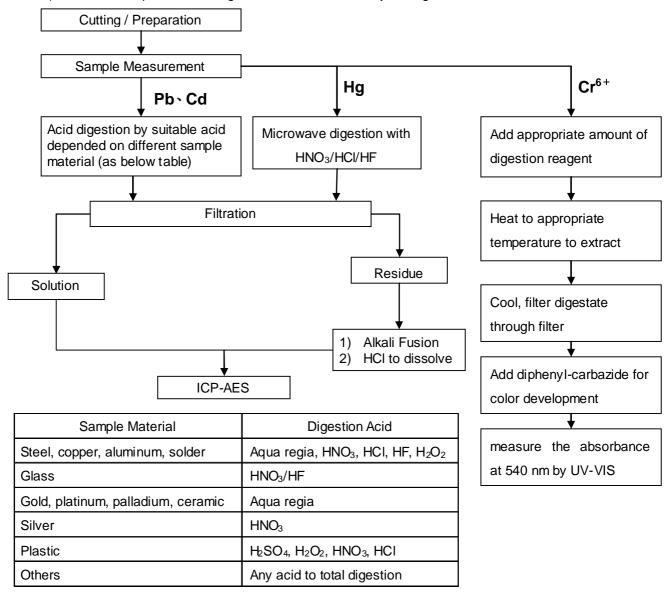


No.: CE/2008/46564 Date: 2008/04/29 Page: 4 of 7

CITIZEN MIYOTA CO., LTD. 4107-5 MIYOTA KITASAKU NAGANO PREF 389-0294 JAPAN



- 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: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



The content of this PDF file is in accordance with the original issued reports for reference only. This Test Report cannot be reproduced, except in full, without prior written permission of the Company

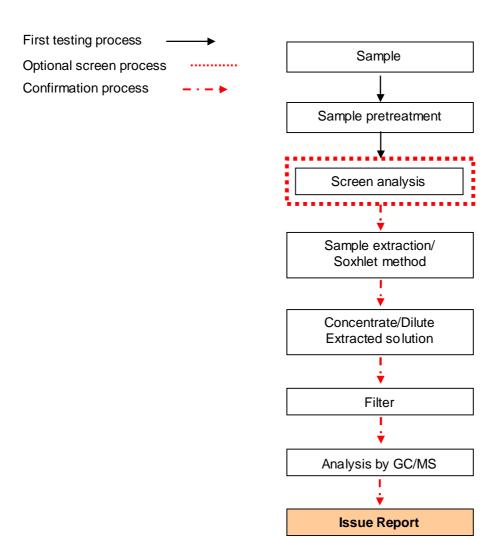


No.: CE/2008/46564 Date: 2008/04/29 Page: 5 of 7

CITIZEN MIYOTA CO., LTD. 4107-5 MIYOTA KITASAKU NAGANO PREF 389-0294 JAPAN



### PBB/PBDE analytical FLOW CHART



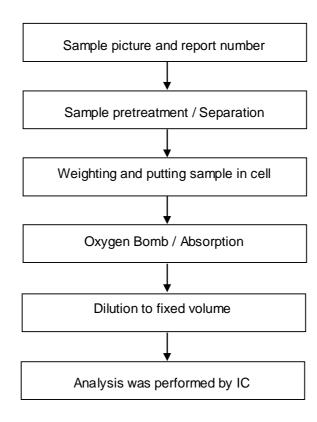


No.: CE/2008/46564 Date: 2008/04/29 Page: 6 of 7

CITIZEN MIYOTA CO., LTD. 4107-5 MIYOTA KITASAKU NAGANO PREF 389-0294 JAPAN



### Analytical flow chart of halogen content





No.: CE/2008/46564 Date: 2008/04/29 Page: 7 of 7

CITIZEN MIYOTA CO., LTD. 4107-5 MIYOTA KITASAKU NAGANO PREF 389-0294 JAPAN





\*\* End of Report \*\*