

Test Report

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EPSON TAIWAN TECHNOLOGY & TRADING LTD.
14F, NO. 7, SONG REN ROAD, TAIPEI 110, TAIWAN, R. O. C.




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

Sample Description : CRYSTAL UNIT
Style/Item No. : MC-SERIES (MC-146, MC-156, MC-206, MC-306, MC-30A, MC-405, MC-406)
Sample Receiving Date : 2007/06/28 AND 2007/08/01
Testing Period : 2007/06/28 TO 2007/07/03 AND 2007/08/01 TO 2007/08/06

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

* This report is combined with reports of CE/2006/66356 and CE/2007/80035 *


Daniel Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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Test Result(s)

PART NAME NO.1 : MIXED ALL PARTS (CE/2006/66356)
PART NAME NO.2 : MIXED ALL PARTS (CE/2007/80035)

Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Cadmium (Cd)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Cadmium by ICP-AES.	2	n.d.	---
Lead (Pb)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Lead by ICP-AES.	2	11000	---
Mercury (Hg)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Mercury by ICP-AES.	2	n.d.	---
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.	---
Arsenic (As)	mg/kg	With reference to US EPA Method 3052 for Arsenic Content. Analysis was performed by ICP-AES.	2	n.d.	---
Antimony (Sb)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	10000	---
Bismuth (Bi)	mg/kg	With reference to US EPA Method 3050B for Bismuth Content. Analysis was performed by ICP-AES.	2	2230	---
Nickel (Ni)	mg/kg	With reference to US EPA Method 3050B for Nickel Content. Analysis was performed by ICP-AES.	2	89100	---

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Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Halogen	---	With reference to BS EN 14582 Annex A. Analysis was performed by IC method for F , Cl , Br, I content.	---	---	---
Halogen-Fluorine (F) (CAS No.: 007782-41-4)	mg/kg	With reference to BS EN 14582 Annex A. Analysis was performed by IC method for Fluorine content.	50	---	n.d.
Halogen-Chlorine (Cl) (CAS No.: 007782-50-5)	mg/kg	With reference to BS EN 14582 Annex A. 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 Annex A. Analysis was performed by IC method for Bromine content.	50	---	3230
Halogen-Iodine (I) (CAS No.: 007553-56-2)	mg/kg	With reference to BS EN 14582 Annex A. Analysis was performed by IC method for Iodine content.	50	---	n.d.
Sum of PBBs	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	-	n.d.	---
Monobromobiphenyl			5	n.d.	---
Dibromobiphenyl			5	n.d.	---
Tribromobiphenyl			5	n.d.	---
Tetrabromobiphenyl			5	n.d.	---
Pentabromobiphenyl			5	n.d.	---
Hexabromobiphenyl			5	n.d.	---
Heptabromobiphenyl			5	n.d.	---
Octabromobiphenyl			5	n.d.	---
Nonabromobiphenyl			5	n.d.	---
Decabromobiphenyl			5	n.d.	---

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Test Item (s):	Unit	Method	MDL	Result			
				No.1	No.2		
Sum of PBDEs (Mono to Nona) (Note 4)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	-	n.d.	---		
Monobromobiphenyl ether			5	n.d.	---		
Dibromobiphenyl ether			5	n.d.	---		
Tribromobiphenyl ether			5	n.d.	---		
Tetrabromobiphenyl ether			5	n.d.	---		
Pentabromobiphenyl ether			5	n.d.	---		
Hexabromobiphenyl ether			5	n.d.	---		
Heptabromobiphenyl ether			5	n.d.	---		
Octabromobiphenyl ether			5	n.d.	---		
Nonabromobiphenyl ether			5	n.d.	---		
Decabromobiphenyl ether			5	n.d.	---		
Sum of PBDEs (Mono to					-	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 Conducted
 6. " - " = Not Regulated
 7. 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.

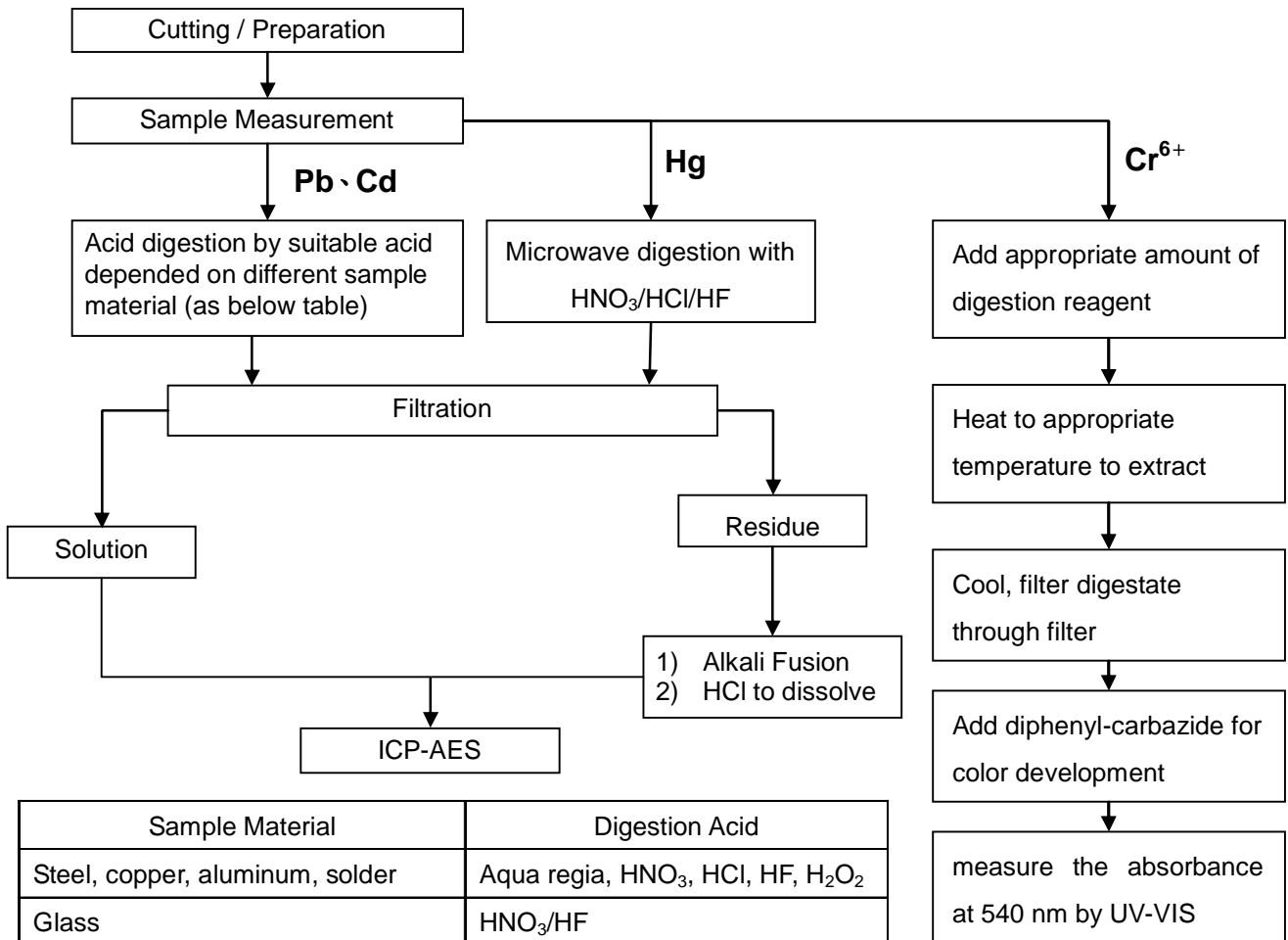
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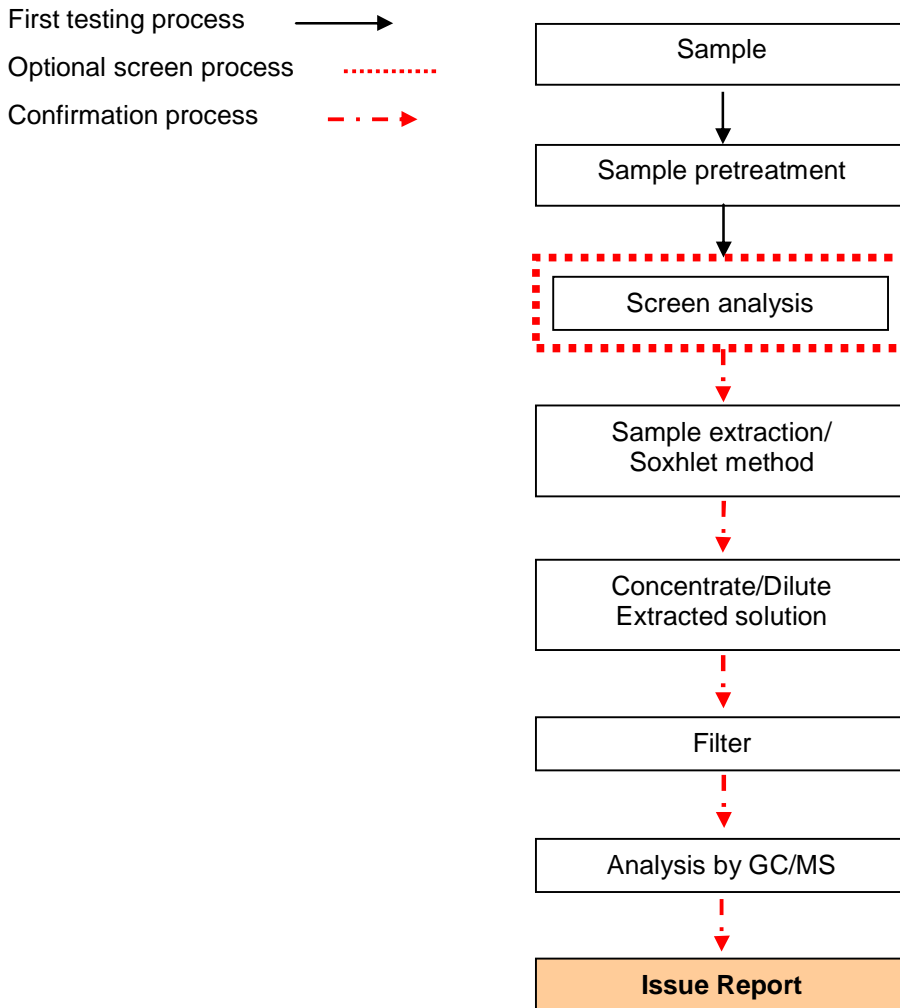
- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Daniel Yeh



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

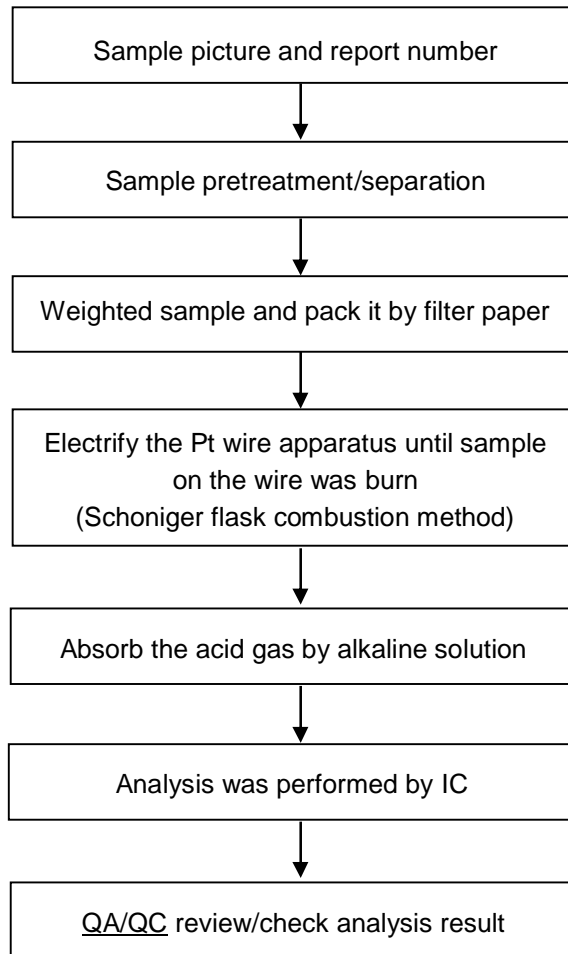


PBB/PBDE analytical FLOW CHART





Analytical flow chart of halogen content



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NO.1



NO.2



** End of Report **