

Test Report

YAGEO CORPORATION.

3F.,233-1,BAOQIAO RD.,XINDIAN,TAIPEI 231,TAIWAN.

Report No. : KA/2007/C2670

Date : 2008/01/04

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

Sample Description : THICK FILM CHIP RESISTOR
Style/Item No. : RC0603 SERIES
Color : WHITE+BLACK+SILVER
Sample Receiving Date : 2007/12/25
Testing Period : 2007/12/25 TO 2008/1/4

=====
Test Result(s) : - Please see the next page(s) -


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

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TW4801215

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Test Result(s)

PART NAME NO.1 : THICK FILM CHIP RESISTOR

Test Item (s)	Unit	Method	MDL	Result No. 1
Cadmium (Cd)	mg/kg	With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	448
Mercury (Hg)	mg/kg	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium for non-metallic samples. Analysis was performed by UV/Vis Spectrometry.	2	n.d.
Sum of PBBs			-	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.
Sum of PBDEs (Mono to Nona)(Note 4)			-	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 Deca)			-	n.d.

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Silver (Ag)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	12200
Arsenic (As)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	n.d.
Barium (Ba)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	53.6
Beryllium (Be)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	n.d.
Bismuth (Bi)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	4620
Cobalt (Co)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	26
Chromium (Cr)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	1740
copper (Cu)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	838
Nickel (Ni)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	42900
Palladium (Pd)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	5	931
Antimony (Sb)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	n.d.
Selenium (Se)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	n.d.
Tin (Sn)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	20200

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- 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. " --- " = Not Conducted

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Test Report

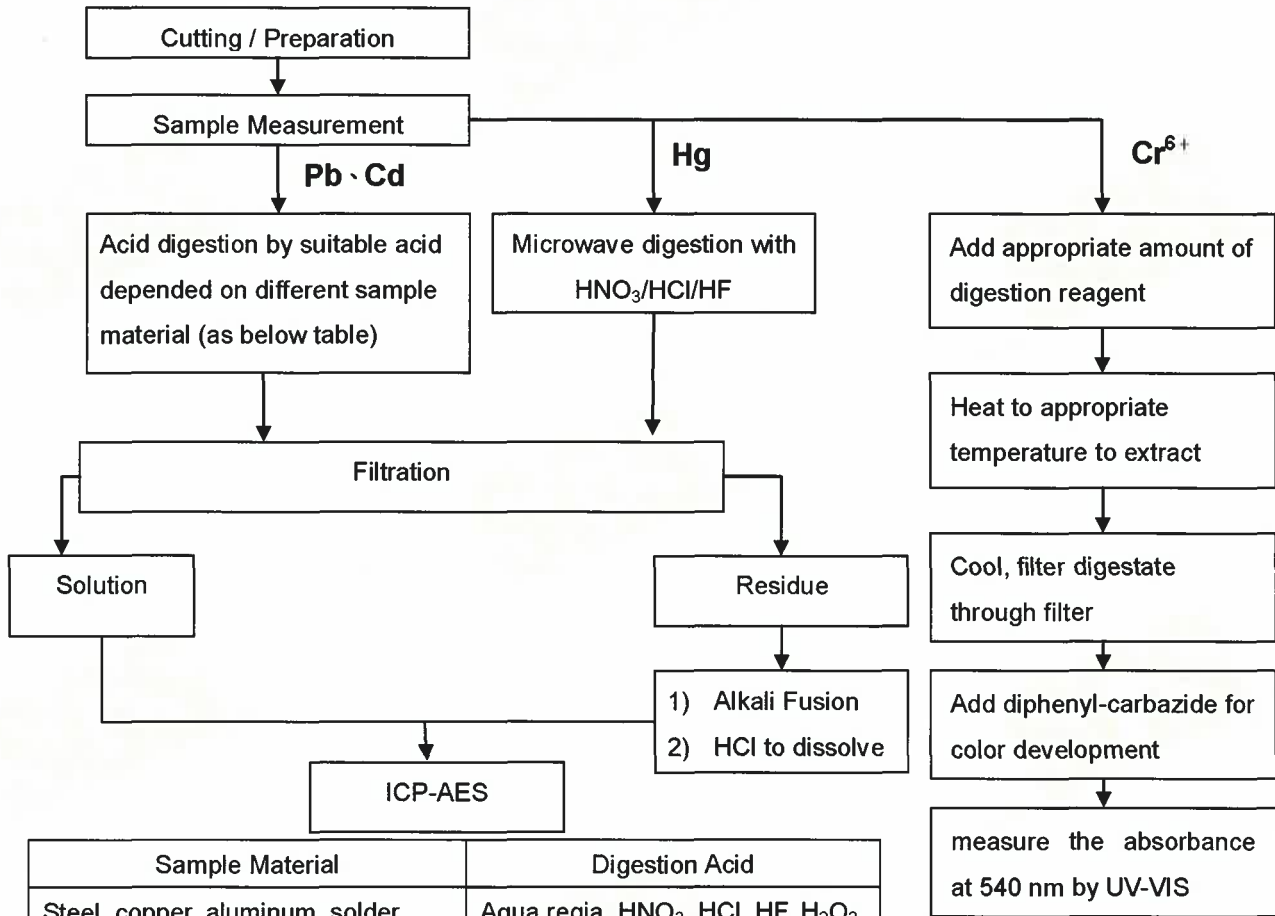
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: George Huang



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

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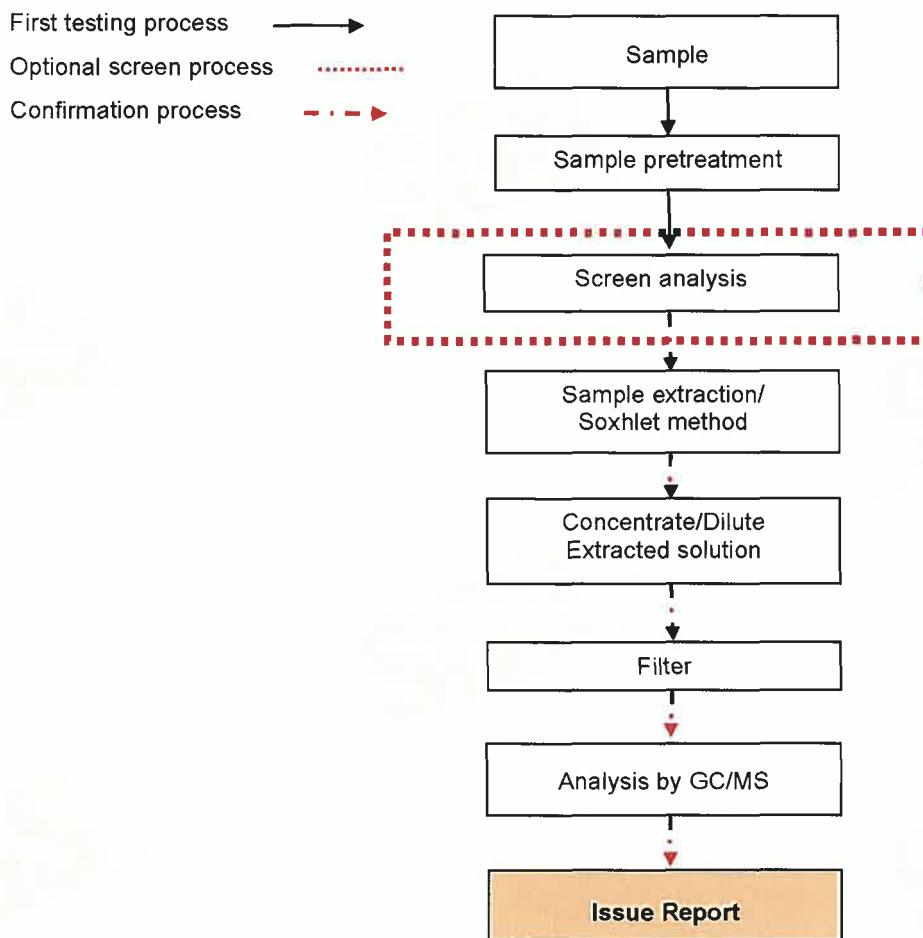
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PBB/PBDE analytical FLOW CHART



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** End of Report **

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TW4801221