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NXP SEMICONDUCTORS

HIGH TECH CAMPUS 60, 5656AG EINDHOVEN, THE NETHERLANDS

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

Sample Submitted By : NXP SEMICONDUCTORS

Sample Name : ATMC WAFER

Sample Receiving Date : 11-Sep-2021

Testing Period : 11-Sep-2021 to 17-Sep-2021

Test Requested : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending

Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs,

PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).

(2) Please refer to next pages for the other item(s).

Test Results : Please refer to following pages.

Conclusion : (1) Based on the performed tests on submitted sample(s), the test results of

Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive

2011/65/EU.

Ray Chang Ph.D./Department Manager Signed for and on behalf SGS TAIWAN LTD.
Chemical Laboratory-Kaohsiung



PIN CODE: FE5244D7



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NXP SEMICONDUCTORS
HIGH TECH CAMPUS 60, 5656AG EINDHOVEN, THE NETHERLANDS

Test Part Description

No.1 : MULTICOLORED WAFER

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd) (CAS No.: 7440-43-9)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.	100
	analysis was performed by ICP-OES.				
Lead (Pb) (CAS No.: 7439-92-1)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.	1000
	analysis was performed by ICP-OES.				
Mercury (Hg) (CAS No.: 7439-97-6)	With reference to IEC 62321-4: 2013+	mg/kg	2	n.d.	1000
	AMD1: 2017, analysis was performed				
	by ICP-OES.				
Hexavalent Chromium Cr(VI) (CAS No.:	With reference to IEC 62321-7-2:	mg/kg	8	n.d.	1000
18540-29-9)	2017, analysis was performed by UV-				
	VIS.				
Monobromobiphenyl		mg/kg	5	n.d.	-
Dibromobiphenyl		mg/kg	5	n.d.	-
Tribromobiphenyl		mg/kg	5	n.d.	-
Tetrabromobipenyl		mg/kg	5	n.d.	-
Pentabromobiphenyl		mg/kg	5	n.d.	-
Hexabromobiphenyl		mg/kg	5	n.d.	-
Heptabromobiphenyl		mg/kg	5	n.d.	-
Octabromobiphenyl	With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.	-
Nonabromobiphenyl		mg/kg	5	n.d.	-
Decabromobiphenyl		mg/kg	5	n.d.	-
Sum of PBBs		mg/kg	ı	n.d.	1000
Monobromodiphenyl ether	analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Dibromodiphenyl ether		mg/kg	5	n.d.	-
Tribromodiphenyl ether		mg/kg	5	n.d.	-
Tetrabromodiphenyl ether		mg/kg	5	n.d.	-
Pentabromodiphenyl ether		mg/kg	5	n.d.	-
Hexabromodiphenyl ether		mg/kg	5	n.d.	-
Heptabromodiphenyl ether		mg/kg	5	n.d.	-
Octabromodiphenyl ether		mg/kg	5	n.d.	-
Nonabromodiphenyl ether		mg/kg	5	n.d.	-
Decabromodiphenyl ether		mg/kg	5	n.d.	-
Sum of PBDEs		mg/kg	_	n.d.	1000



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NXP SEMICONDUCTORS
HIGH TECH CAMPUS 60, 5656AG EINDHOVEN, THE NETHERLANDS

S5-68-7 analysis was performed by GC/MS. Dibutyl phthalate (DBP) (CAS No.: 84- Mith reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-(2-ethylhexyl) phthalate (DEHP) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-(2-ethylhexyl) phthalate (DEHP) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-(2-ethylhexyl) phthalate (DEHP) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-(2-ethylhexyl) phthalate (DEHP) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-(2-ethylhexyl) phthalate (DINP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-(2-ethylhexyl) phthalate (DINP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-(2-ethylhexyl) phthalate (DINP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pottyl phthalate (DINP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by ICP-OES. Di-n-pentyl phthalate (DNPP) (CAS No.: Paper	Test Item(s)	Method	Unit	MDL	Result	Limit
S5-68-7 analysis was performed by GC/MS. Dibutyl phthalate (DBP) (CAS No.: 84- With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-(2-ethylhexyl) phthalate (DEHP) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-(2-ethylhexyl) phthalate (DEHP) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-(2-ethylhexyl) phthalate (DEHP) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-(2-ethylhexyl) phthalate (DEHP) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Disononyl phthalate (DINP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-octyl phthalate (DINP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-octyl phthalate (DNOP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNOP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-octyl phthalate (DNOP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNOP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-octyl phthalate (DNOP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-octyl phthalate (DNOP) (CAS No.: 7440-36-0) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. Di-n-octyl phthalate (DNOP) (CAS No.: 7440-36-0) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. Di-n-octyl phthalate (DNOP) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. Di-n-octyl phthalate (DNOP) (No.1	
Dibutyl phthalate (DBP) (CAS No.: 84-74-2) Diisobutyl phthalate (DIBP) (CAS No.: 84-74-2) Diisobutyl phthalate (DIBP) (CAS No.: 84-84-69-5) Diisobutyl phthalate (DIBP) (CAS No.: 84-84-69-5) Diisolotyl phthalate (DEHP) (CAS No.: 117-81-7) Diisononyl phthalate (DINP) (CAS No.: 84-89-10) Diisolotyl phthalate (DINP) (CAS No.: 84-89-10) Dii-n-octyl phthalate (DINP) (CAS No.: 84-89-10) Di-n-pentyl phthalate (DNOP) (CAS No.: 94-94-94-94-94-94-94-94-94-94-94-94-94-9	Butyl benzyl phthalate (BBP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
74-2)	85-68-7)	, , , , , , , , , , , , , , , , , , , ,				
Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5) Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7) Diisononyl phthalate (DINP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0) Diisodecyl phthalate (DIDP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Diisodecyl phthalate (DIDP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Dii-n-octyl phthalate (DNOP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNOP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNOP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Antimony (Sb) (CAS No.: 7440-36-0) Antimony (Sb) (CAS No.: 7440-36-0) Beryllium (Be) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. Arsenic (As) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. With reference to US EPA 3052: 1996, mg/kg 2 n.d analysis was performed by ICP-OES. Fluorine (F) (CAS No.: 14762-94-8) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. With reference to US EPA 3052: 1996, mg/kg 50 n.d analysis was performed by ICP-OES. Fluorine (F) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, mg/kg 50 n.d analysis was performed by IC. Chlorine (Cl) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, mg/kg 50 n.d analysis was performed by IC. Bromine (Br) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, mg/kg 50 n.d analysis was performed by IC. With reference to BS EN 14582: 2016, mg/kg 50 n.d analysis was performed by IC.	Dibutyl phthalate (DBP) (CAS No.: 84-	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
Ba4-69-5	74-2)	analysis was performed by GC/MS.				
Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7)	Diisobutyl phthalate (DIBP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
(CAS No.: 117-81-7) analysis was performed by GC/MS. mg/kg 50 n.d. - Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 26761-40-0, 68515-49-1) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Di-n-octyl phthalate (DNOP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Di-n-pentyl phthalate (DNPP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - 131-18-0) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. - Beryllium (Be) (CAS No.: 7440-36-0) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. - Arsenic (As) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. - Fluorine (F) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Chlorine (CI) (CAS No.: 10097	84-69-5)	analysis was performed by GC/MS.				
Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)	Di-(2-ethylhexyl) phthalate (DEHP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
28553-12-0, 68515-48-0) analysis was performed by GC/MS. Diisodecyl phthalate (DIDP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-octyl phthalate (DNOP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Di-n-pentyl phthalate (DNPP) (CAS No.: With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. Antimony (Sb) (CAS No.: 7440-36-0) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. Beryllium (Be) (CAS No.: 7440-41-7) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. Arsenic (As) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. Fluorine (F) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, analysis was performed by IC. Chlorine (Cl) (CAS No.: 10097-32-2) With reference to BS EN 14582: 2016, analysis was performed by IC. Bromine (Br) (CAS No.: 10097-32-2) With reference to BS EN 14582: 2016, analysis was performed by IC. Iodine (I) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, mg/kg 50 n.d analysis was performed by IC.	(CAS No.: 117-81-7)	analysis was performed by GC/MS.				
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117-84-0) analysis was performed by GC/MS. mg/kg 50 n.d. - Di-n-pentyl phthalate (DNPP) (CAS No.: 131-18-0) With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - Antimony (Sb) (CAS No.: 7440-36-0) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. - Beryllium (Be) (CAS No.: 7440-41-7) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. - Arsenic (As) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. - Fluorine (F) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Chlorine (CI) (CAS No.: 10097-32-2) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Bromine (Br) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. -	26761-40-0, 68515-49-1)	analysis was performed by GC/MS.				
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131-18-0) analysis was performed by GC/MS. mg/kg 2 n.d. - Antimony (Sb) (CAS No.: 7440-36-0) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. - Beryllium (Be) (CAS No.: 7440-41-7) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. - Arsenic (As) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. mg/kg 2 n.d. - Fluorine (F) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Chlorine (CI) (CAS No.: 22537-15-1) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Bromine (Br) (CAS No.: 10097-32-2) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Iodine (I) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, mg/kg 50 n.d. -	117-84-0)	analysis was performed by GC/MS.				
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Arsenic (As) (CAS No.: 7440-38-2) With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. Fluorine (F) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, analysis was performed by IC. Chlorine (Cl) (CAS No.: 22537-15-1) With reference to BS EN 14582: 2016, analysis was performed by IC. With reference to BS EN 14582: 2016, analysis was performed by IC. With reference to BS EN 14582: 2016, analysis was performed by IC. With reference to BS EN 14582: 2016, analysis was performed by IC. With reference to BS EN 14582: 2016, analysis was performed by IC. With reference to BS EN 14582: 2016, mg/kg 50 n.d	Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3052: 1996,	mg/kg	2	n.d.	-
analysis was performed by ICP-OES. Fluorine (F) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, analysis was performed by IC. Chlorine (Cl) (CAS No.: 22537-15-1) With reference to BS EN 14582: 2016, analysis was performed by IC. With reference to BS EN 14582: 2016, analysis was performed by IC. With reference to BS EN 14582: 2016, analysis was performed by IC. With reference to BS EN 14582: 2016, analysis was performed by IC. With reference to BS EN 14582: 2016, analysis was performed by IC. With reference to BS EN 14582: 2016, analysis was performed by IC. With reference to BS EN 14582: 2016, analysis was performed by IC.		analysis was performed by ICP-OES.				
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analysis was performed by IC. Chlorine (Cl) (CAS No.: 22537-15-1) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Bromine (Br) (CAS No.: 10097-32-2) With reference to BS EN 14582: 2016, analysis was performed by IC. Hodine (I) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, mg/kg 50 n.d. -		analysis was performed by ICP-OES.				
Chlorine (Cl) (CAS No.: 22537-15-1) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Bromine (Br) (CAS No.: 10097-32-2) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Iodine (I) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, mg/kg 50 n.d. -	Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	-
analysis was performed by IC. Bromine (Br) (CAS No.: 10097-32-2) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Iodine (I) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, mg/kg 50 n.d. -		analysis was performed by IC.				
Bromine (Br) (CAS No.: 10097-32-2) With reference to BS EN 14582: 2016, analysis was performed by IC. mg/kg 50 n.d. - Iodine (I) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, mg/kg 50 n.d. -	Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	-
analysis was performed by IC. Iodine (I) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, mg/kg 50 n.d		analysis was performed by IC.				
Iodine (I) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, mg/kg 50 n.d	Bromine (Br) (CAS No.: 10097-32-2)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	-
· · · · · · · · · · · · · · · · · · ·		analysis was performed by IC.				
analysis was performed by IC.	lodine (I) (CAS No.: 14362-44-8)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	-
		analysis was performed by IC.				



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NXP SEMICONDUCTORS
HIGH TECH CAMPUS 60, 5656AG EINDHOVEN, THE NETHERLANDS

Note:

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. The statement of compliance conformity is based on comparison of testing results and limits.

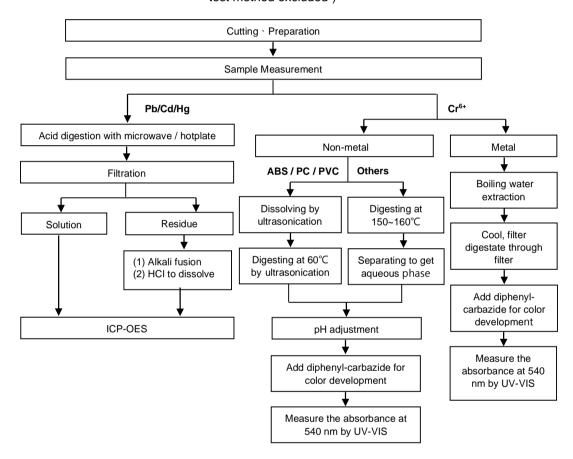


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NXP SEMICONDUCTORS
HIGH TECH CAMPUS 60, 5656AG EINDHOVEN, THE NETHERLANDS

Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

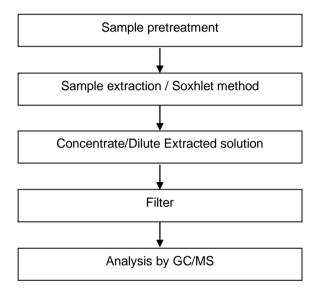




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HIGH TECH CAMPUS 60, 5656AG EINDHOVEN, THE NETHERLANDS

PBB/PBDE analytical FLOW CHART



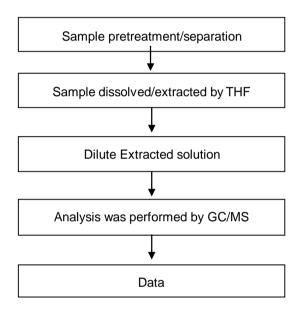


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Analytical flow chart of phthalate content

[Test method: IEC 62321-8]





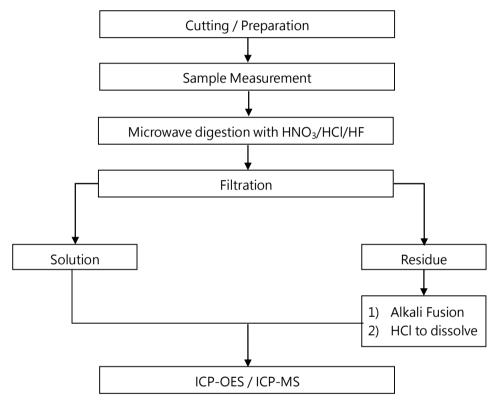
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NXP SEMICONDUCTORS
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Analytical flow chart of Elements (Heavy metal included)

These samples were dissolved totally by pre-conditioning method according to below flow chart.

【Reference method: US EPA 3051 \ US EPA 3052】



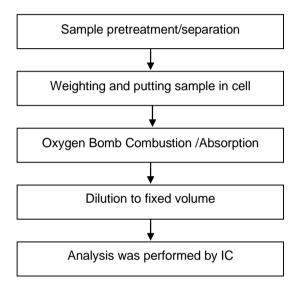
* US EPA 3051 method does not add HF.



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Analytical flow chart of Halogen



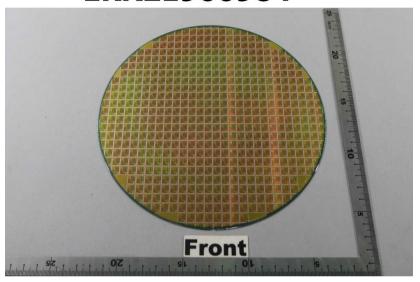


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NXP SEMICONDUCTORS HIGH TECH CAMPUS 60, 5656AG EINDHOVEN, THE NETHERLANDS

* The tested sample / part is marked by an arrow if it's shown on the photo. *

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** End of Report **