

Test Report

No. : CE/2011/A1014A Date : 2011/10/26 Page : 1 of 7

SIRECTIFIER GLOBAL CORPORATION., DELAWARE, U. S. A.
113 BARKSDALE PROFESSIONAL CENTER IN THE CITY OF NEWARK, COUNTY OF NEW CASTLE



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

Sample Description : WAFER (DIODE, MOSFET)
Sample Receiving Date : 2011/10/06
Testing Period : 2011/10/06 TO 2011/10/12

=====
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

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Test Report

No. : CE/2011/A1014A Date : 2011/10/26 Page : 2 of 7

SIRECTIFIER GLOBAL CORPORATION., DELAWARE, U. S. A.
 113 BARKSDALE PROFESSIONAL CENTER IN THE CITY OF NEWARK, COUNTY OF NEW CASTLE



Test Result(s)

PART NAME No.1 : WAFER

| Test Item(s) | Unit | Method | MDL | Result |
|--|-------|---|-----|--------|
| | | | | No.1 |
| Cadmium (Cd) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Lead (Pb) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Mercury (Hg) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Hexavalent Chromium Cr(VI) | mg/kg | With reference to IEC 62321: 2008 and performed by UV-VIS. | 2 | n.d. |
| Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3) | mg/kg | With reference to US EPA 3540C method. Analysis was performed by GC/MS. | 0.5 | n.d. |
| Polychlorinated Terphenyls (PCTs) | mg/kg | With reference to US EPA 3540C method. Analysis was performed by GC/MS. | 0.5 | n.d. |
| Sum of PBBs | mg/kg | With reference to IEC 62321: 2008 and performed 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 Report

No. : CE/2011/A1014A Date : 2011/10/26 Page : 3 of 7

SIRECTIFIER GLOBAL CORPORATION., DELAWARE, U. S. A.



113 BARKSDALE PROFESSIONAL CENTER IN THE CITY OF NEWARK, COUNTY OF NEW CASTLE

| Test Item(s) | Unit | Method | MDL | Result |
|--------------------------|-------|---|-----|--------|
| | | | | No.1 |
| Sum of PBDEs | mg/kg | With reference to IEC 62321: 2008 and performed by GC/MS. | - | n.d. |
| Monobromodiphenyl ether | | | 5 | n.d. |
| Dibromodiphenyl ether | | | 5 | n.d. |
| Tribromodiphenyl ether | | | 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. |

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated

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Test Report

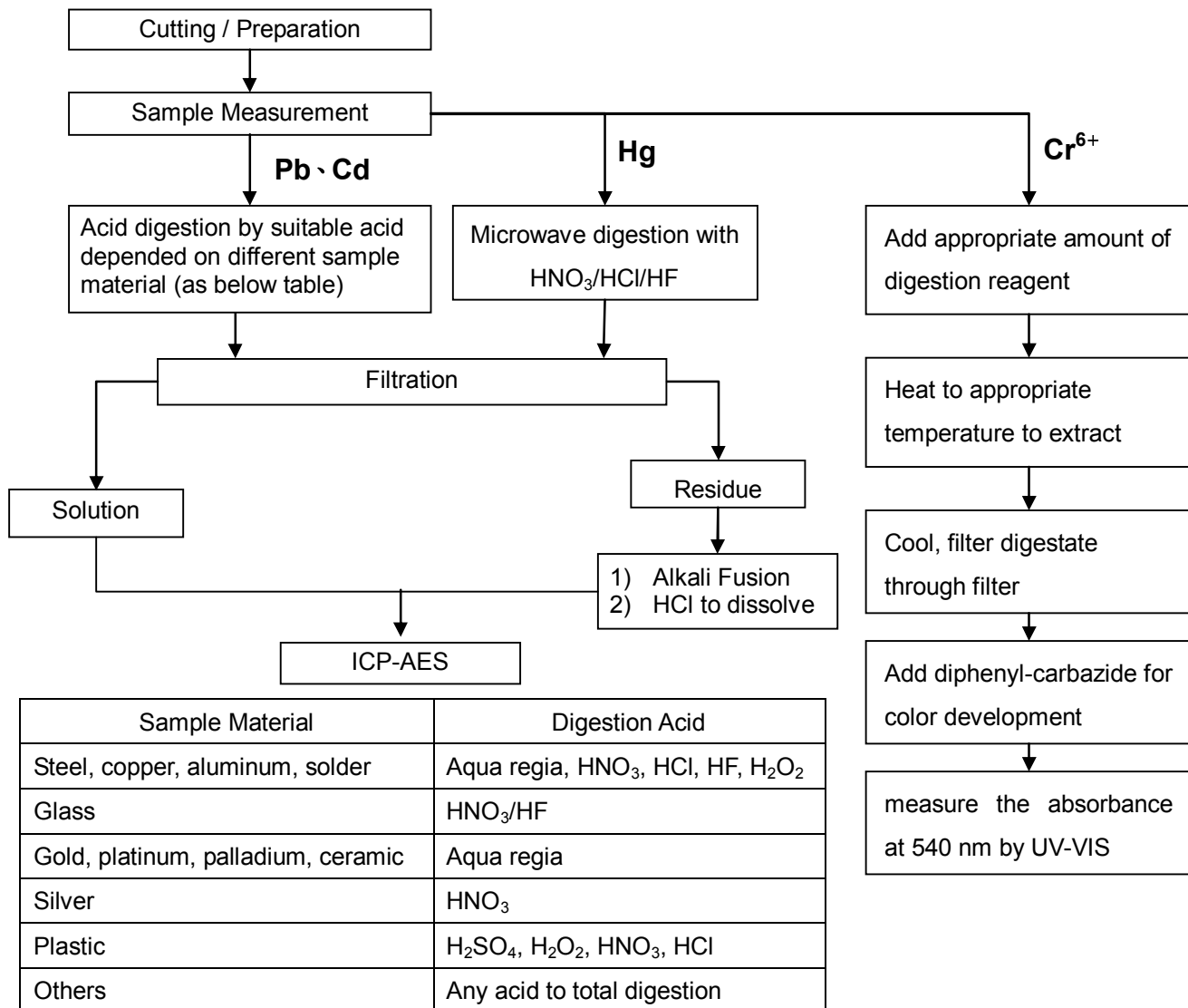
No. : CE/2011/A1014A Date : 2011/10/26 Page : 4 of 7

SIRECTIFIER GLOBAL CORPORATION., DELAWARE, U. S. A.



113 BARKSDALE PROFESSIONAL CENTER IN THE CITY OF NEWARK, COUNTY OF NEW CASTLE

- 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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Test Report

No. : CE/2011/A1014A Date : 2011/10/26 Page : 5 of 7

SIRECTIFIER GLOBAL CORPORATION., DELAWARE, U. S. A.



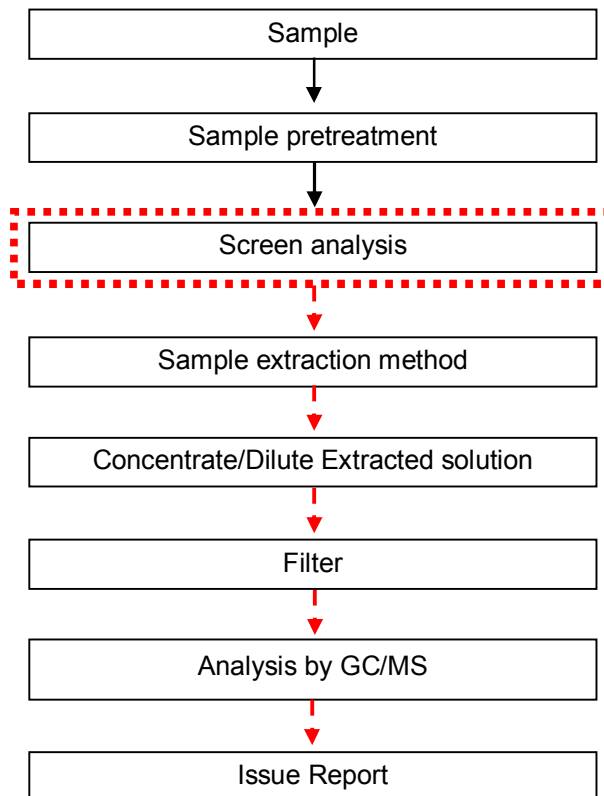
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Analytical flow chart

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

【 Test Items: PBB/PBDE, TBBP-A-bis 】

First testing process —> Optional screen process Confirmation process - ->



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Test Report

No. : CE/2011/A1014A Date : 2011/10/26 Page : 6 of 7

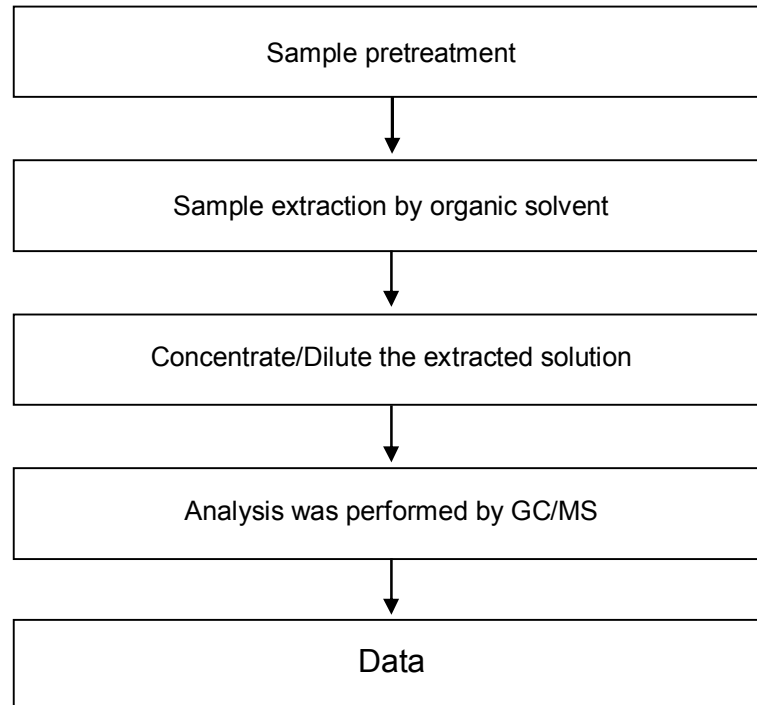
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Chlorinated Flame retardant analytical flow chart

- 1) Name of the person who made measurement: Barry Tseng
 - 2) Name of the person in charge of measurement: Troy Chang
- Reference method: US EPA 8270D, US EPA 3540
 - Test Items: PCBs, PCNs, PCTs, Mirex, CP, MCCC



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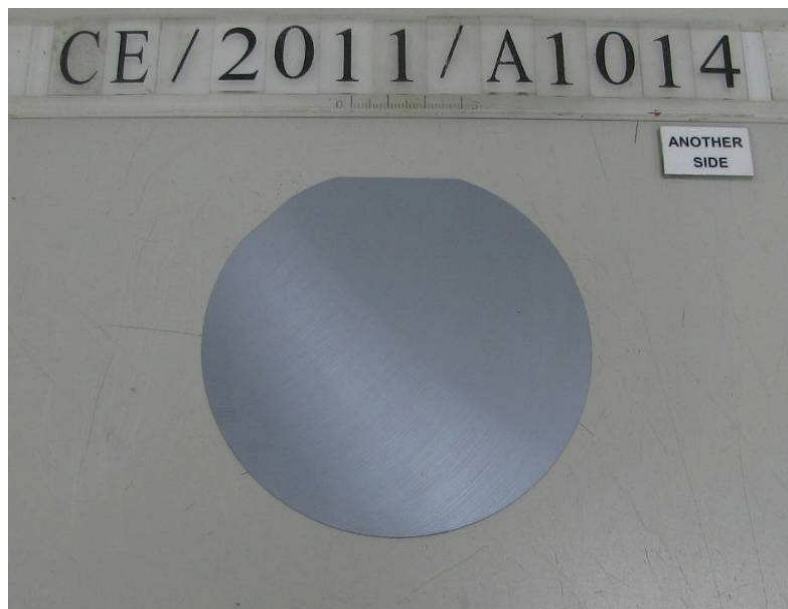
No. : CE/2011/A1014A Date : 2011/10/26 Page : 7 of 7

SIRECTIFIER GLOBAL CORPORATION., DELAWARE, U. S. A.



113 BARKSDALE PROFESSIONAL CENTER IN THE CITY OF NEWARK, COUNTY OF NEW CASTLE

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



**** End of Report ****

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