

## Test Report

No.: SHAEC23011846603

Date: Aug 17, 2023

Page 1 of 19

Client Name: Advanced Semiconductor Manufacturing Co., Ltd.

Client Address: No. 385, Hongcao Road, Xuhui District, 200233, Shanghai, China

Sample Name: Wafer

The above sample(s) and information were provided by the client.

SGS Job No.: SHP23-009704

Sample Receiving Date: Aug 07, 2023

Testing Period: Aug 07, 2023 ~ Aug 17, 2023

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

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

| Test Requirement   | Conclusion  |
|--|-------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass        |
| Tetrabromobisphenol A (TBBP-A)   | See Results |
| Alkanes C14-C17, chloro (medium- chain chlorinated paraffins) (MCCPs)  | See Results |
| Element(s)   | See Results |
| Halogen  | See Results |
| Hexabromocyclododecane (HBCDD)   | See Results |
| Polychlorinated Biphenyls (PCBs)   | See Results |
| Polyvinyl chloride (PVC)   | See Results |
| Red Phosphorus   | See Results |

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Dora Hu  
Approved Signatory

scan to see the report



DD3BFAD8



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# Test Report

No.: SHAEC23011846603

Date: Aug 17, 2023

Page 2 of 19

| Test Requirement  | Conclusion  |
|---|-------------|
| Perfluorooctane Sulfonates (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts | See Results |
| Phthalates  | See Results |

## Test Result(s):

### Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description    |
|-------|------------|-------------------------|----------------|
| SN1   | A1         | SHA23-0118466-0001.C001 | Colorful wafer |

### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s)                       | Limit | Unit(s) | MDL | A1 |
|------------------------------------|-------|---------|-----|----|
| Cadmium(Cd)                        | 100   | mg/kg   | 2   | ND |
| Lead (Pb)                          | 1000  | mg/kg   | 2   | ND |
| Mercury (Hg)                       | 1000  | mg/kg   | 2   | ND |
| Hexavalent Chromium (Cr(VI))       | 1000  | mg/kg   | 8   | ND |
| Polybromobiphenyl (PBBs)           | 1000  | mg/kg   | -   | ND |
| Monobromobiphenyl (MonoBB)         | -     | mg/kg   | 5   | ND |
| Dibromobiphenyl (DiBB)             | -     | mg/kg   | 5   | ND |
| Tribromobiphenyl (TriBB)           | -     | mg/kg   | 5   | ND |
| Tetrabromobiphenyl (TetraBB)       | -     | mg/kg   | 5   | ND |
| Pentabromobiphenyl (PentaBB)       | -     | mg/kg   | 5   | ND |
| Hexabromobiphenyl (HexaBB)         | -     | mg/kg   | 5   | ND |
| Heptabromobiphenyl (HeptaBB)       | -     | mg/kg   | 5   | ND |
| Octabromobiphenyl (OctaBB)         | -     | mg/kg   | 5   | ND |
| Nonabromobiphenyl (NonaBB)         | -     | mg/kg   | 5   | ND |
| Decabromobiphenyl (DecaBB)         | -     | mg/kg   | 5   | ND |
| Polybromodiphenyl ether(PBDEs)     | 1000  | mg/kg   | -   | ND |
| Monobromodiphenylether (MonoBDE)   | -     | mg/kg   | 5   | ND |
| Dibromodiphenylether (DiBDE)       | -     | mg/kg   | 5   | ND |
| Tribromodiphenylether (TriBDE)     | -     | mg/kg   | 5   | ND |
| Tetrabromodiphenylether (TetraBDE) | -     | mg/kg   | 5   | ND |
| Pentabromodiphenylether (PentaBDE) | -     | mg/kg   | 5   | ND |
| Hexabromodiphenylether (HexaBDE)   | -     | mg/kg   | 5   | ND |
| Heptabromodiphenylether (HeptaBDE) | -     | mg/kg   | 5   | ND |



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# Test Report

No.: SHAEC23011846603

Date: Aug 17, 2023

Page 3 of 19

| Test Item(s)                       | Limit | Unit(s) | MDL | A1 |
|------------------------------------|-------|---------|-----|----|
| Octabromodiphenylether (OctaBDE)   | -     | mg/kg   | 5   | ND |
| Nonabromodiphenylether (NonaBDE)   | -     | mg/kg   | 5   | ND |
| Decabromodiphenylether (DecaBDE)   | -     | mg/kg   | 5   | ND |
| Dibutyl Phthalate(DBP)             | 1000  | mg/kg   | 50  | ND |
| Benzyl Butyl Phthalate(BBP)        | 1000  | mg/kg   | 50  | ND |
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 1000  | mg/kg   | 50  | ND |
| Diisobutyl Phthalate(DIBP)         | 1000  | mg/kg   | 50  | ND |

**Notes:**

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

**Tetrabromobisphenol A (TBBP-A)**

Test Method: With reference to SGS in house method, analysis was performed by GC-MS or LC-MS.

| Test Item(s)                   | CAS No. | Unit(s) | MDL | A1 |
|--------------------------------|---------|---------|-----|----|
| Tetrabromobisphenol A (TBBP-A) | 79-94-7 | mg/kg   | 5   | ND |

**Alkanes C14-C17, chloro (medium- chain chlorinated paraffins) (MCCPs)**

Test Method: With reference to ISO 22818:2021, analysis was performed by GC-NCI-MS.

| Test Item(s)  | CAS No.               | Unit(s) | MDL | A1 |
|---|-----------------------|---------|-----|----|
| Alkanes C <sub>14</sub> -C <sub>17</sub> , chloro (medium- chain chlorinated paraffins) (MCCPs) | 85535-85-9 and others | mg/kg   | 50  | ND |

**Element(s)**

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES/AAS.

| Test Item(s)   | Unit(s) | MDL | A1 |
|--|---------|-----|----|
| Arsenic(As)  | mg/kg   | 10  | ND |
| Beryllium(Be)  | mg/kg   | 5   | ND |
| Antimony(Sb)   | mg/kg   | 10  | ND |
| Antimony Trioxide(Sb <sub>2</sub> O <sub>3</sub> ) ◆ | mg/kg   | 12  | ND |

**Notes:**

- (1) ◆ Calculated concentration of Sb<sub>2</sub>O<sub>3</sub> is based on the identified Sb.

**Halogen**

Test Method: With reference to EN 14582:2016, analysis was performed by IC.



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| Test Item(s) | Unit(s) | MDL | A1 |
|--------------|---------|-----|----|
| Fluorine(F)  | mg/kg   | 20  | ND |
| Chlorine(Cl) | mg/kg   | 50  | ND |
| Bromine(Br)  | mg/kg   | 50  | ND |
| Iodine(I)    | mg/kg   | 50  | ND |

**Hexabromocyclododecane (HBCDD)**

Test Method: With reference to IEC 62321-9:2021, analysis was performed by GC-MS.

| Test Item(s)                   | CAS No.  | Unit(s) | MDL | A1 |
|--------------------------------|--|---------|-----|----|
| Hexabromocyclododecane (HBCDD) | 134237-50-6<br>/134237-51-7<br>/134237-52-8<br>/25637-99-4<br>/3194-55-6 | mg/kg   | 20  | ND |

**Polychlorinated Biphenyls (PCBs)**

Test Method: With reference to US EPA 8082A:2007, analysis was performed by GC-MS.

| Test Item(s)                                  | CAS No.    | Unit(s) | MDL | A1 |
|---|------------|---------|-----|----|
| 2,4,4'-Trichlorobiphenyl (PCB28)              | 7012-37-5  | mg/kg   | 0.5 | ND |
| 2,2',5,5'-Tetrachlorobiphenyl (PCB52)         | 35693-99-3 | mg/kg   | 0.5 | ND |
| 2,2',4,5,5'-Pentachlorobiphenyl (PCB101)      | 37680-73-2 | mg/kg   | 0.5 | ND |
| 2,3',4,4',5'-Pentachlorobiphenyl (PCB118)     | 31508-00-6 | mg/kg   | 0.5 | ND |
| 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB138)    | 35065-28-2 | mg/kg   | 0.5 | ND |
| 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB153)    | 35065-27-1 | mg/kg   | 0.5 | ND |
| 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB180) | 35065-29-3 | mg/kg   | 0.5 | ND |
| Sum of PCBs                                   | -          | mg/kg   | -   | ND |

**Polyvinyl chloride (PVC)**

Test Method: With reference to SGS in house method, analysis was performed by FTIR/HATR.

| Test Item(s)             | A1       |
|--------------------------|----------|
| Polyvinyl chloride (PVC) | Negative |

**Notes:**

(1) Negative=Undetectable, Positive=Detectable



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# Test Report

No.: SHAEC23011846603

Date: Aug 17, 2023

Page 5 of 19

## Red Phosphorus

Test Method: With reference to SGS In house method, analysis was performed by ICP-OES and Pyrolysis-GC-MS.

| Test Item(s)   | CAS No.   | Unit(s) | MDL | A1 |
|----------------|-----------|---------|-----|----|
| Red Phosphorus | 7723-14-0 | mg/kg   | 500 | ND |

### Notes:

(1) The testing result is based on the worst-case scenario, and confirmed by Pyrolysis-GC-MS.

## Perfluorooctane Sulfonates (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by HPLC-MS or LC-MS/MS.

| Test Item(s)   | CAS No.    | Unit(s) | MDL   | A1 |
|--|------------|---------|-------|----|
| PFOS and its derivatives                                     | -          | mg/kg   | -     | ND |
| Perfluorooctane Sulfonates (PFOS) and its salts*             | -          | mg/kg   | 0.010 | ND |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)              | 4151-50-2  | mg/kg   | 0.010 | ND |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)             | 31506-32-8 | mg/kg   | 0.010 | ND |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)  | 1691-99-2  | mg/kg   | 0.010 | ND |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | 24448-09-7 | mg/kg   | 0.010 | ND |
| Perfluorooctane Sulfonamide (PFOSA)                          | 754-91-6   | mg/kg   | 0.010 | ND |
| Perfluorooctanoic Acid (PFOA) and its salts*                 | -          | mg/kg   | 0.010 | ND |

### Notes:

(1) Perfluorooctanoic acid (PFOA) and its salts\* including PFOA (CAS No. 335-67-1), APFO (CAS No. 3825-26-1), PFOA-Na (CAS No. 335-95-5), PFOA-K (CAS No. 2395-00-8), PFOA-Ag (CAS No. 335-93-3) and PFOA-F (CAS No. 335-66-0). The result of PFOA is used to represent PFOA and its salts.

(2) Perfluorooctane sulfonates (PFOS) and its salts\* including PFOS (CAS No. 1763-23-1), POSF (CAS No. 307-35-7), PFOS-K (CAS No. 2795-39-3), PFOS-NH<sub>4</sub> (CAS No. 29081-56-9), PFOS-N(C<sub>10</sub>H<sub>21</sub>)<sub>2</sub>(CH<sub>3</sub>)<sub>2</sub> (CAS No. 251099-16-8), PFOS-NH<sub>2</sub>(C<sub>2</sub>H<sub>4</sub>OH)<sub>2</sub> (CAS No. 70225-14-8), PFOS-Li (CAS No. 29457-72-5), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No. 56773-42-3) and PFOS-Na (CAS No. 4021-47-0). The result of PFOS is used to represent PFOS and its salts.

## Phthalates

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.



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# Test Report

No.: SHAEC23011846603

Date: Aug 17, 2023

Page 6 of 19

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|------------------------------------|---------------------------|---------|-------|----|
| Dibutyl Phthalate(DBP)             | 84-74-2                   | %       | 0.003 | ND |
| Benzyl Butyl Phthalate(BBP)        | 85-68-7                   | %       | 0.003 | ND |
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 117-81-7                  | %       | 0.003 | ND |
| Diisononyl Phthalate (DINP)        | 28553-12-0<br>/68515-48-0 | %       | 0.010 | ND |
| Di-n-Octyl Phthalate(DNOP)         | 117-84-0                  | %       | 0.003 | ND |
| Diisodecyl Phthalate (DIDP)        | 26761-40-0<br>/68515-49-1 | %       | 0.010 | ND |
| Dimethyl Phthalate(DMP)            | 131-11-3                  | %       | 0.003 | ND |
| Diethyl Phthalate(DEP)             | 84-66-2                   | %       | 0.003 | ND |
| Diisobutyl Phthalate(DIBP)         | 84-69-5                   | %       | 0.003 | ND |
| Dipentyl Phthalate (DnPP)          | 131-18-0                  | %       | 0.003 | ND |
| Dicyclohexyl Phthalate(DCHP)       | 84-61-7                   | %       | 0.003 | ND |
| Diphenyl Phthalate(DPhP)           | 84-62-8                   | %       | 0.003 | ND |
| Dibenzyl Phthalate(DBzP)           | 523-31-9                  | %       | 0.003 | ND |
| Diisooctyl Phthalate(DIOP)         | 27554-26-3                | %       | 0.010 | ND |
| Dipropyl Phthalate(DPrP)           | 131-16-8                  | %       | 0.003 | ND |
| Dinonyl Phthalate(DNP)             | 84-76-4                   | %       | 0.003 | ND |
| Di-n-Hexyl Phthalate(DnHP)         | 84-75-3                   | %       | 0.003 | ND |

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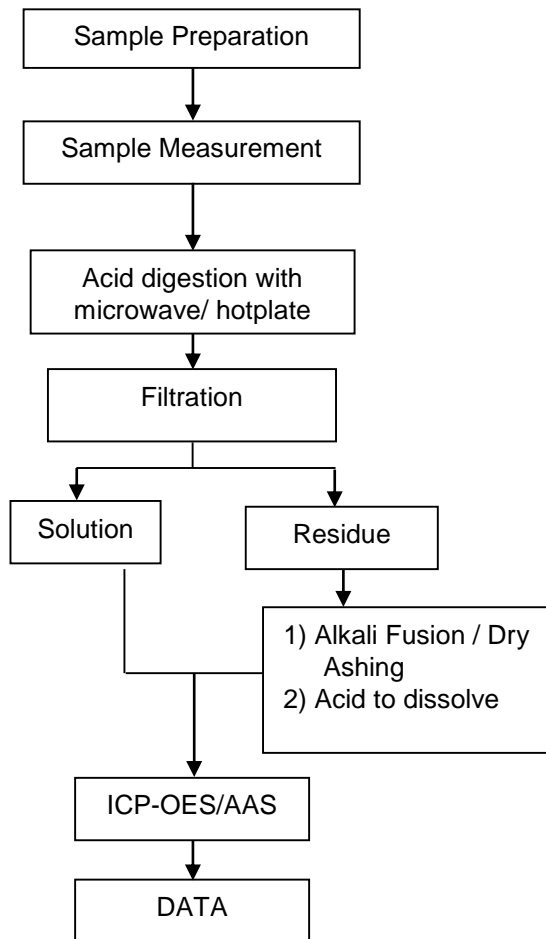
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**Elements Testing Flow Chart**

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



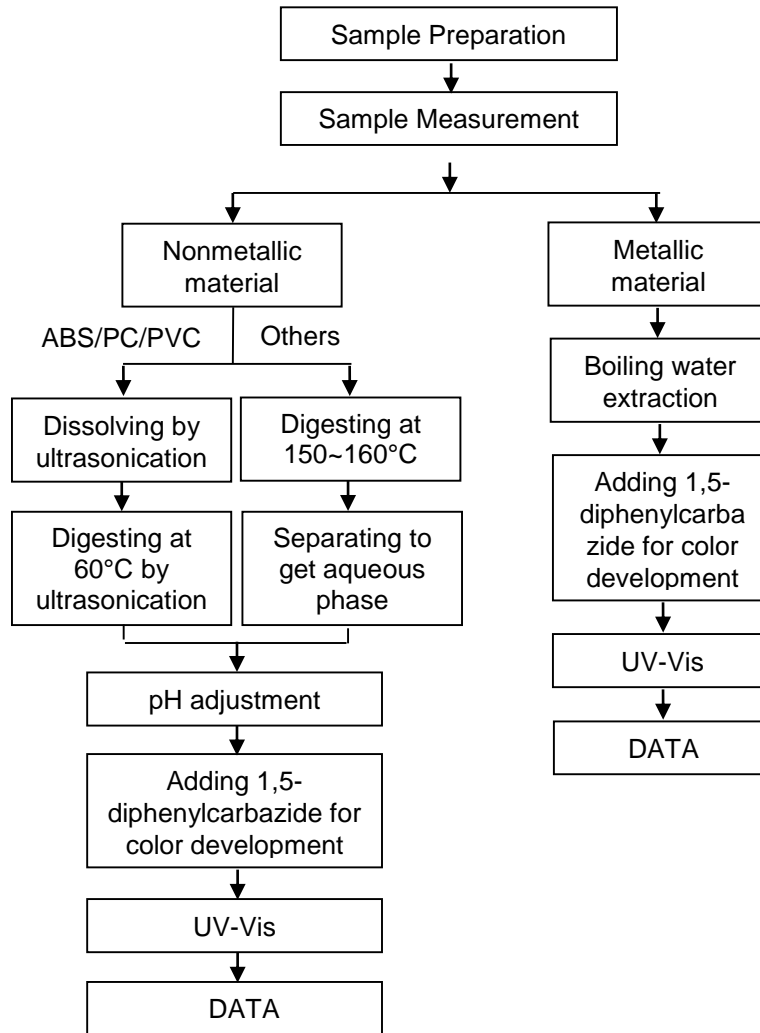
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ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart



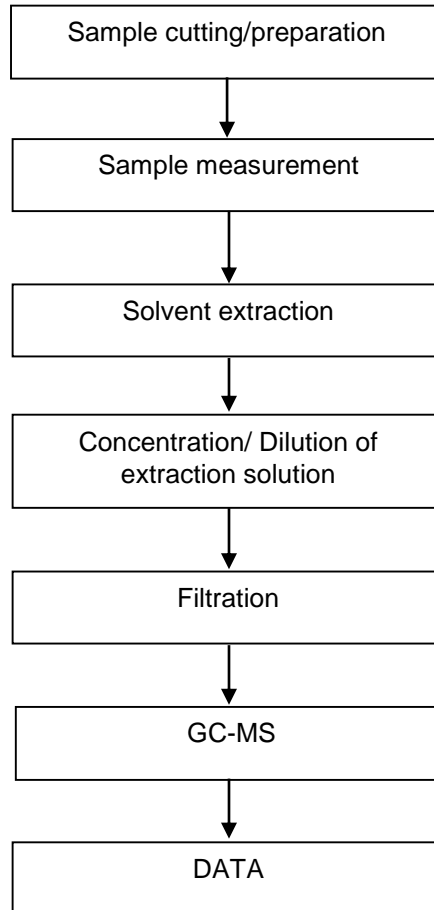
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### PBBs/PBDEs Testing Flow Chart



**Phthalates Testing Flow Chart**

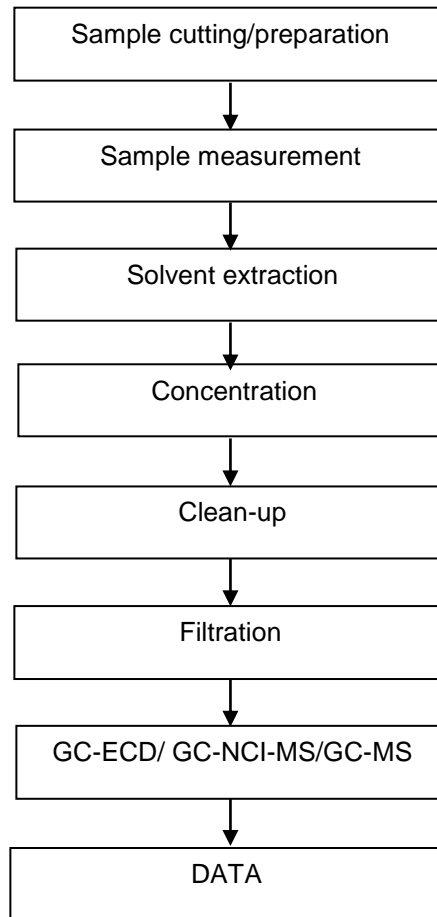


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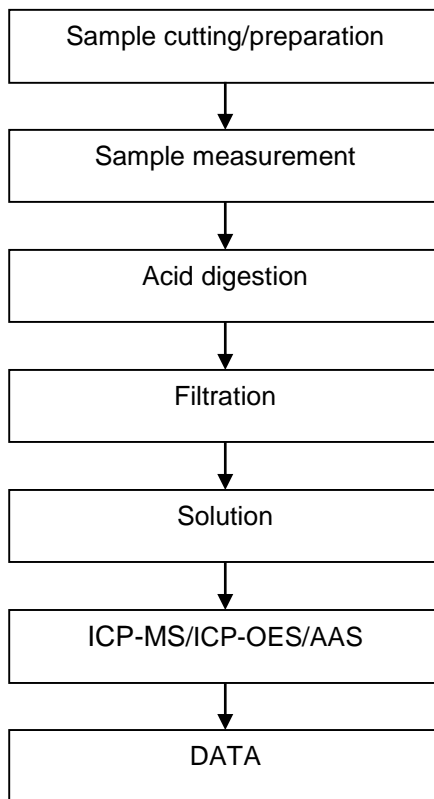
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## Chlorinated Paraffin Testing Flow Chart



### Elements Testing Flow Chart



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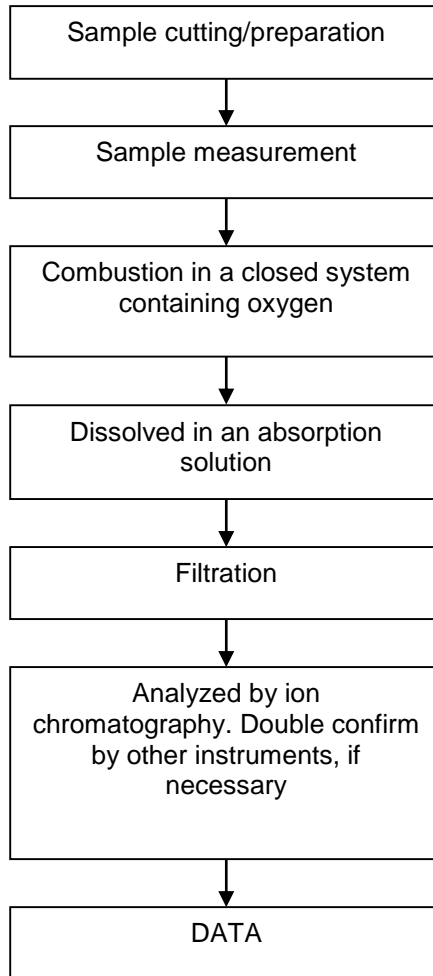
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## Halogen Testing Flow Chart



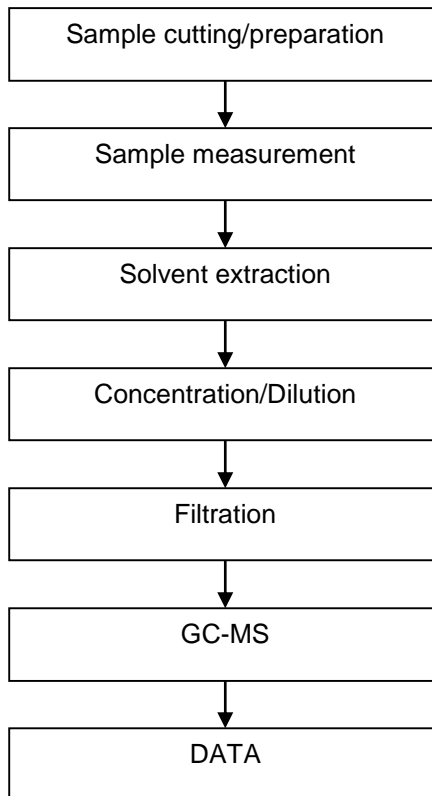
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### HBCDD Testing Flow Chart



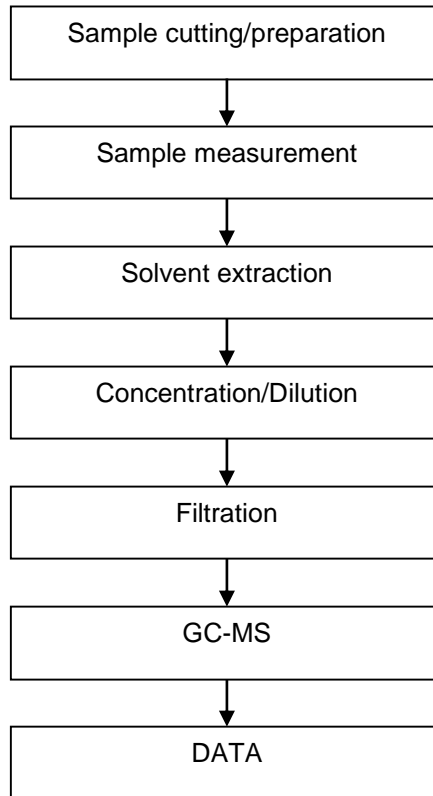
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### PCB Testing Flow Chart



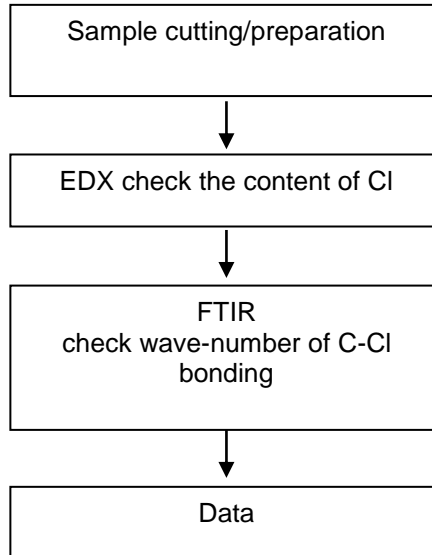
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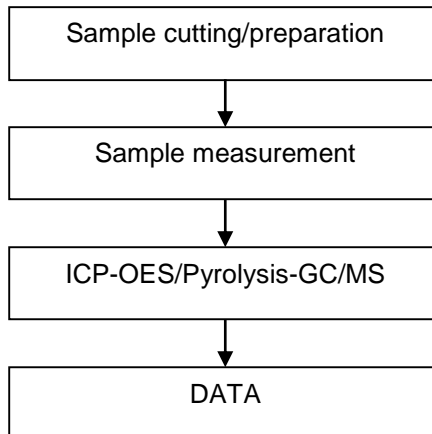
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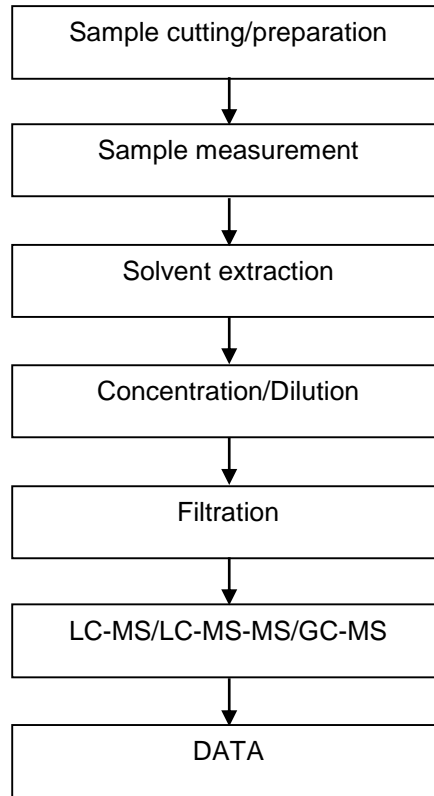
## Red Phosphorus Testing Flow Chart



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## PFASs/ PFOS/PFOA Testing Flow Chart



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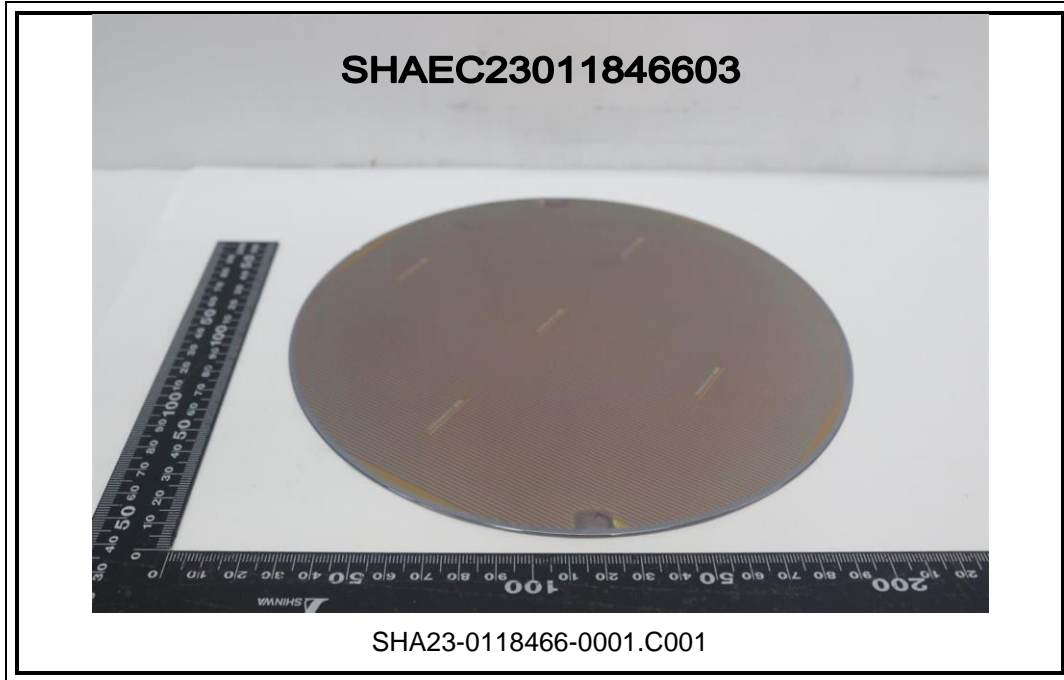
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