

# Test Report

No.: SHAEC26026145505

Date: Aug 25, 2026

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Client Name: CSMC TECHNOLOGIES FAB2 CO.,LTD

Client Address: 14 LIANGXI ROAD,WUXI,JIANGSU 214061,CHINA

Sample Name: 6 IN WAFER

Model No.: Photoelectric device

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

SGS Job No.: TIC1020260818134218AXDU

Sample Receiving Date: Aug 18, 2026

Testing Period: Aug 18, 2026 ~ Aug 25, 2026

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 (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass        |
| Halogen                                                                                                                                                                                                                                                                                                                   | See Results |
| Hexabromocyclododecane (HBCDD)                                                                                                                                                                                                                                                                                            | See Results |
| TBBP-A                                                                                                                                                                                                                                                                                                                    | See Results |
| PFOS, its salts and related compounds,PFOA, its salts                                                                                                                                                                                                                                                                     | See Results |

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



Sue Sheng  
Approved Signatory

Scan to see the report



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## Test Result(s):

### Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description            |
|-------|------------|-------------------------|------------------------|
| SN1   | A2         | SHA26-0261455-0001.C002 | Colorful silicon 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 (PBB), Polybrominated diphenyl ethers (PBDE), 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/AAS, UV-Vis and GC-MS.

| Test Item(s)                              | Limit | Unit(s) | MDL | A2 |
|-------------------------------------------|-------|---------|-----|----|
| Lead (Pb)                                 | 1000  | mg/kg   | 2   | ND |
| Mercury (Hg)                              | 1000  | mg/kg   | 2   | ND |
| Cadmium (Cd)                              | 100   | mg/kg   | 2   | ND |
| Hexavalent Chromium (Cr(VI))              | 1000  | mg/kg   | 8   | ND |
| Polybromobiphenyl (PBB)                   | 1000  | mg/kg   | -   | ND |
| Monobrominated biphenyl (MonoBB)          | -     | mg/kg   | 5   | ND |
| Dibrominated biphenyl (DiBB)              | -     | mg/kg   | 5   | ND |
| Tribrominated biphenyl (TriBB)            | -     | mg/kg   | 5   | ND |
| Tetrabrominated biphenyl (TetraBB)        | -     | mg/kg   | 5   | ND |
| Pentabrominated biphenyl (PentaBB)        | -     | mg/kg   | 5   | ND |
| Hexabrominated biphenyl (HexaBB)          | -     | mg/kg   | 5   | ND |
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 5   | ND |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 5   | ND |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 5   | ND |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 5   | ND |
| Polybromodiphenyl ether (PBDE)            | 1000  | mg/kg   | -   | ND |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 5   | ND |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 5   | ND |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 5   | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 5   | ND |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 5   | ND |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 5   | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 5   | ND |

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| Test Item(s)                            | Limit | Unit(s) | MDL | A2 |
|-----------------------------------------|-------|---------|-----|----|
| Octabrominated diphenyl ether (OctaBDE) | -     | mg/kg   | 5   | ND |
| Nonabrominated diphenyl ether (NonaBDE) | -     | mg/kg   | 5   | ND |
| Decabrominated diphenyl ether (DecaBDE) | -     | mg/kg   | 5   | ND |
| Bis(2-ethylhexyl) phthalate (DEHP)      | 1000  | mg/kg   | 50  | ND |
| Butyl benzyl phthalate (BBP)            | 1000  | mg/kg   | 50  | ND |
| Dibutyl phthalate (DBP)                 | 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.

## Halogen

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

| Test Item(s) | Unit(s) | MDL | A2 |
|--------------|---------|-----|----|
| 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 | A2 |
|--------------------------------|--------------------------------------------------------------------------|---------|-----|----|
| 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 |

## TBBP-A

**Test Method:** With reference to US EPA 3540C:1996, analysis was performed by GC-MS/LC-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A2 |
|--------------|---------|---------|-----|----|
| TBBP-A       | 79-94-7 | mg/kg   | 10  | ND |

## PFOS, its salts and related compounds, PFOA, its salts

**Test Method:** Modified EN 17681-1:2025, analysis was performed by LC-MS or LC-MS/MS.

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| Test Item(s)                                                             | CAS No.    | Unit(s) | MDL   | A2 |
|--------------------------------------------------------------------------|------------|---------|-------|----|
| <b>PFOS, its salts</b>                                                   |            |         |       |    |
| Perfluorooctane sulfonic acid (PFOS), its salts^                         | 1763-23-1  | mg/kg   | 0.010 | ND |
| <b>PFOS-related compounds</b>                                            |            |         |       |    |
| 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), its salts^                          | 754-91-6   | mg/kg   | 0.010 | ND |
| Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts^               | 2806-24-8  | mg/kg   | 0.010 | ND |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts^ | 2355-31-9  | mg/kg   | 0.010 | ND |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts^    | 2991-50-6  | mg/kg   | 0.010 | ND |
| Sum of PFOS-related compounds                                            | -          | mg/kg   | -     | ND |
| <b>PFOA, its salts</b>                                                   |            |         |       |    |
| Perfluorooctanoic acid (PFOA), its salts^                                | 335-67-1   | mg/kg   | 0.010 | ND |

## Notes:

(1) ^=Substances refer to its salts/derivative listed in below table.

| Substances Name                                                                                                                                                                                  | CAS No.     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>PFOS, its salts &amp; derivatives</b>                                                                                                                                                         |             |
| Perfluorooctane sulfonic acid (PFOS)                                                                                                                                                             | 1763-23-1   |
| Potassium Perfluorooctanesulfonate (PFOS-K)                                                                                                                                                      | 2795-39-3   |
| Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)                                                                                                                                             | 29457-72-5  |
| Sodium perfluorooctanesulfonate (PFOS-Na)                                                                                                                                                        | 4021-47-0   |
| Ammonium perfluorooctanesulfonate (PFOS-NH <sub>4</sub> )                                                                                                                                        | 29081-56-9  |
| Perfluorooctane sulfonate diethanolamine salt (PFOS-NH <sub>2</sub> (C <sub>2</sub> H <sub>4</sub> OH) <sub>2</sub> )                                                                            | 70225-14-8  |
| Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )                                                                                      | 56773-42-3  |
| N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-N(C <sub>10</sub> H <sub>21</sub> ) <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub> ) | 251099-16-8 |
| TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                                                                                               | 111873-33-7 |
| Perfluorooctane Sulfonyl fluoride (PFOS-F)                                                                                                                                                       | 307-35-7    |
| Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg)                                                                                                                                         | 91036-71-4  |
| Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate                                                                                                                      | 71463-74-6  |
| Perfluorooctanesulfonate                                                                                                                                                                         | 45298-90-6  |
| Triethylammonium perfluorooctane sulfonate (PFOS-NH(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )                                                                                               | 54439-46-2  |

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|                                                                                                                                                           |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH <sub>3</sub> ) <sub>4</sub> )                                                                    | 56773-44-5   |
| N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C <sub>3</sub> H <sub>7</sub> ) <sub>3</sub> (C <sub>5</sub> H <sub>11</sub> )) | 56773-56-9   |
| N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))            | 124472-68-0  |
| Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)                                                              | 213740-80-8  |
| Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate                                                                                      | 258341-99-0  |
| 1-Hexadecylpyridinium perfluoro-1-octanesulfonate                                                                                                         | 334529-63-4  |
| N,N,N-Triethyldecane-1-aminium heptadecafluorooctane-1-sulfonate                                                                                          | 773895-92-4  |
| Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                                                   | 2185049-59-4 |
| Perfluorooctanesulfonic acid diethylamine salt (PFOS-C <sub>4</sub> H <sub>11</sub> N)                                                                    | 2205029-08-7 |
| heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> )       | 1203998-97-3 |
| Perfluorooctane sulfonic anhydride (PFOSAN)                                                                                                               | 423-92-7     |
| Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)                                                                                                             | 423-60-9     |
| <b>FOSAA, its salts</b>                                                                                                                                   |              |
| Perfluorooctane sulfonamidoacetic Acid (FOSAA)                                                                                                            | 2806-24-8    |
| N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))                                                                                                      | 909405-47-6  |
| N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)                                                                                        | 75260-69-4   |
| N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)                                                                                          | 115716-87-5  |
| <b>N-MeFOSAA, its salts</b>                                                                                                                               |              |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)                                                                                              | 2355-31-9    |
| 2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))                                                                                         | 909405-48-7  |
| Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)                                                                            | 70281-93-5   |
| Cyclo-hexachloro (N-methyl- (N-(perfluorooctylsulphonyl) glycinato-O1:O1')) dihydroxytrichromium                                                          | 97298-47-0   |
| <b>N-EtFOSAA, its salts</b>                                                                                                                               |              |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)                                                                                                 | 2991-50-6    |
| Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)                                                                       | 2991-51-7    |
| 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))                                                                                         | 909405-49-8  |
| Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH <sub>4</sub> )                                                                       | 2991-52-8    |
| Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)                                                                                       | 3871-50-9    |
| Diaquatetrachloro[μ-[N-ethyl-N-[(perfluorooctyl) sulfonyl]glycinato-O1:O1']]-μ-hydroxybis[2- methylpropanol]dichromium                                    | 68891-96-3   |
| <b>PFOSA, its salts</b>                                                                                                                                   |              |
| Perfluorooctane Sulfonamide (PFOSA)                                                                                                                       | 754-91-6     |
| Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)                                                                                                  | 76752-79-9   |
| Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)                                                                                                   | 76752-78-8   |
| Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)                                                                                                 | 76752-70-0   |
| Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH <sub>4</sub> )                                                                                   | 76752-72-2   |
| Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C <sub>6</sub> H <sub>15</sub> N)                                          | 76752-82-4   |
| <b>PFOA, its salts &amp; derivatives</b>                                                                                                                  |              |

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|--------------------------------------------------------------------------------------------------------------|--------------|
| Perfluorooctanoic acid (PFOA)                                                                                | 335-67-1     |
| Sodium perfluorooctanoate (PFOA-Na)                                                                          | 335-95-5     |
| Potassium perfluorooctanoate (PFOA-K)                                                                        | 2395-00-8    |
| Silver perfluorooctanoate (PFOA-Ag)                                                                          | 335-93-3     |
| Perfluorooctanoyl fluoride (PFOA-F)                                                                          | 335-66-0     |
| Ammonium pentadecafluorooctanoate (APFO)                                                                     | 3825-26-1    |
| Lithium perfluorooctanoate (PFOA-Li)                                                                         | 17125-58-5   |
| Cobalt perfluorooctanoate (PFOA-Co)                                                                          | 35965-01-6   |
| Cesium perfluorooctanoate (PFOA-Cs)                                                                          | 17125-60-9   |
| Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))                    | 68141-02-6   |
| Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C <sub>4</sub> H <sub>10</sub> N))                   | 423-52-9     |
| Pentadecafluorooctanoate (anion)                                                                             | 45285-51-6   |
| Perfluorooctanoic Anhydride                                                                                  | 33496-48-9   |
| N,N,N-Triethylethanaminium perfluorooctanoate                                                                | 98241-25-9   |
| Perfluorooctanoate N,N,N-Trimethylmethanaminium                                                              | 32609-65-7   |
| Tetrapropylammonium perfluorooctanoate                                                                       | 277749-00-5  |
| Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )                   | 98065-31-7   |
| Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C <sub>2</sub> H <sub>7</sub> N)                   | 1376936-03-6 |
| Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C <sub>5</sub> H <sub>5</sub> N)                          | 95658-47-2   |
| pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> ) | 1514-68-7    |
| N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C <sub>11</sub> H <sub>26</sub> N)             | 927835-01-6  |
| Pentadecafluorooctanoyl chloride (PFOA-Cl)                                                                   | 335-64-8     |

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

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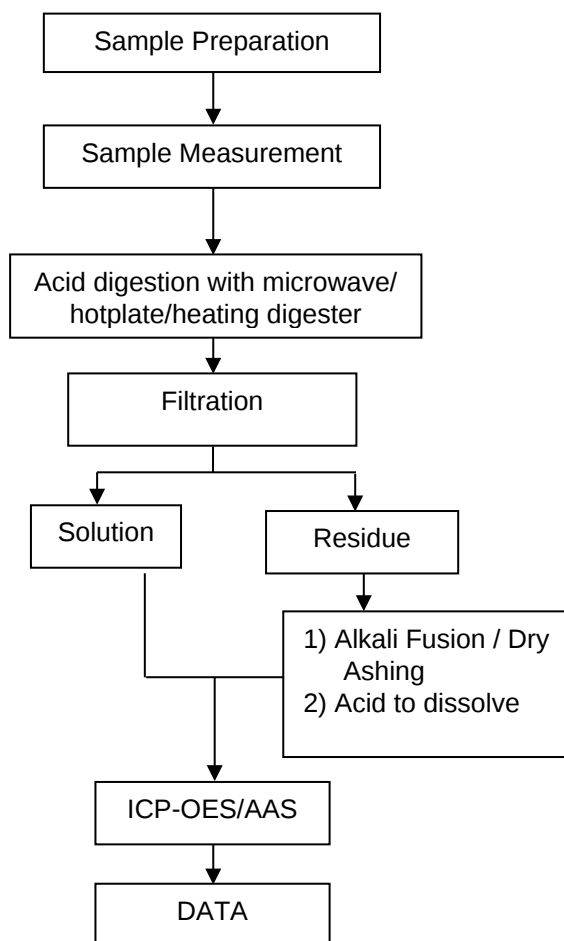
## ATTACHMENTS

## Elements Testing Flow Chart

Name of the person who made testing: Meria Jin/Sielina Song

Name of the person in charge of testing: John Cheng

These samples of Pb/Cd/Hg were dissolved totally by pre-conditioning method according to below flow chart.



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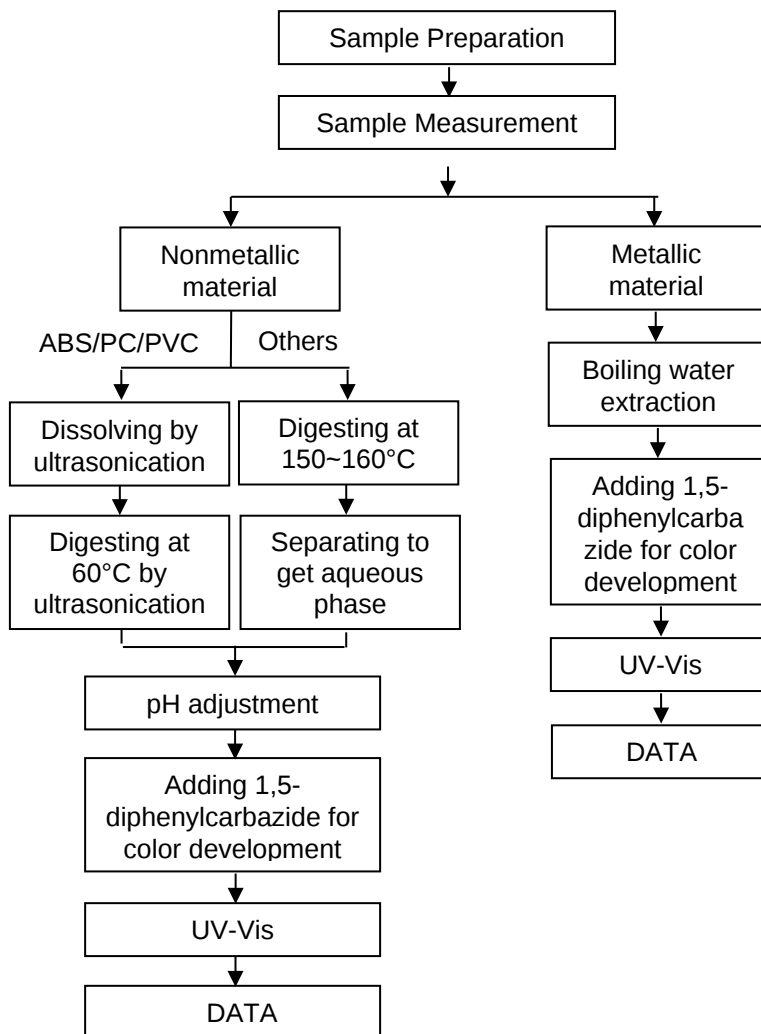
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### ATTACHMENTS

### Hexavalent Chromium (Cr(VI)) Testing Flow Chart

Name of the person who made testing: Andy Zhang

Name of the person in charge of testing: Xiaolong Yang



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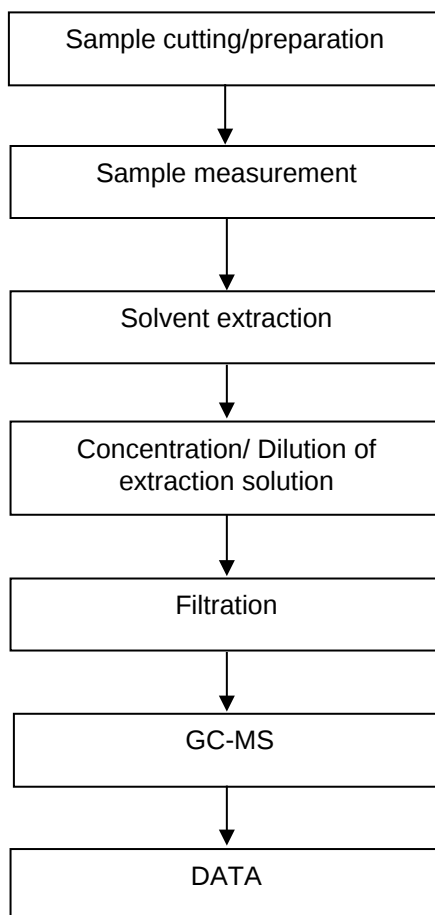
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## ATTACHMENTS

## PBB(s)/PBDE(s) Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Carol Cui



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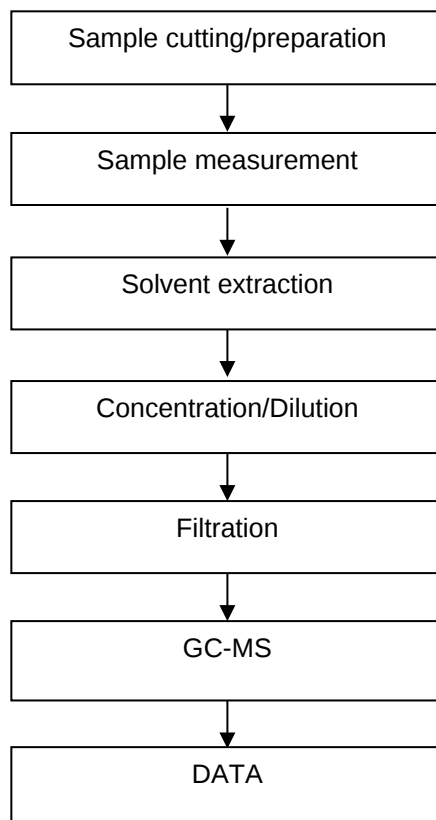
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## ATTACHMENTS

## Phthalates Testing Flow Chart

Name of the person who made testing: xiaoqiang zhang

Name of the person in charge of testing: Carol Cui



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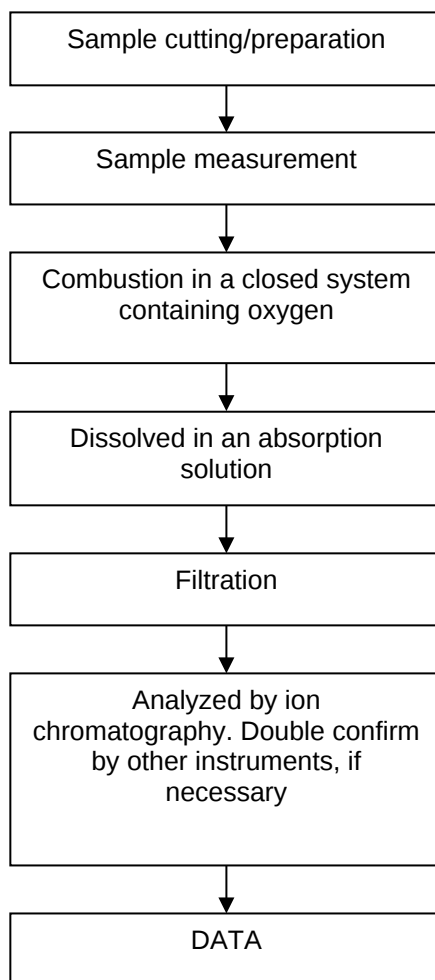
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## ATTACHMENTS

## Halogen Testing Flow Chart

Name of the person who made testing: Andy Zhang

Name of the person in charge of testing: Jinjing Sun



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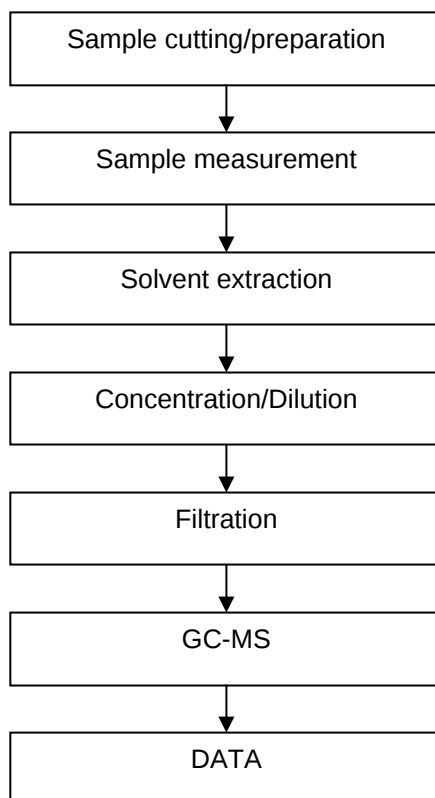
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## ATTACHMENTS

## HBCDD Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Carol Cui



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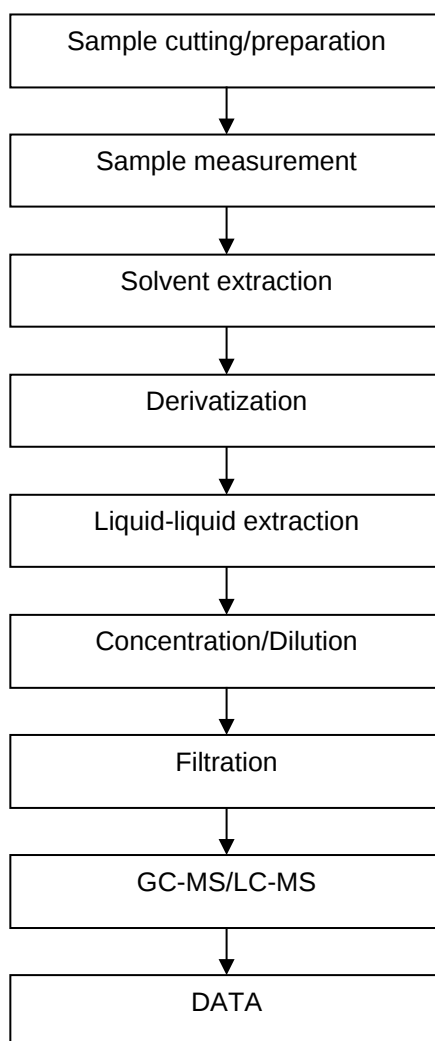
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## ATTACHMENTS

## TBBP-A Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Carol Cui



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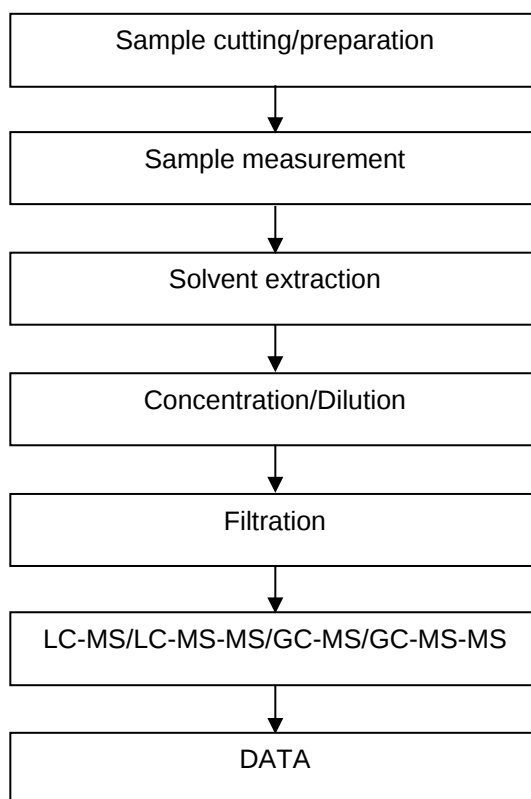
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**PFASs/ PFOS/PFOA Testing Flow Chart**

Name of the person who made testing: Ance Chen

Name of the person in charge of testing: Liyas Wang



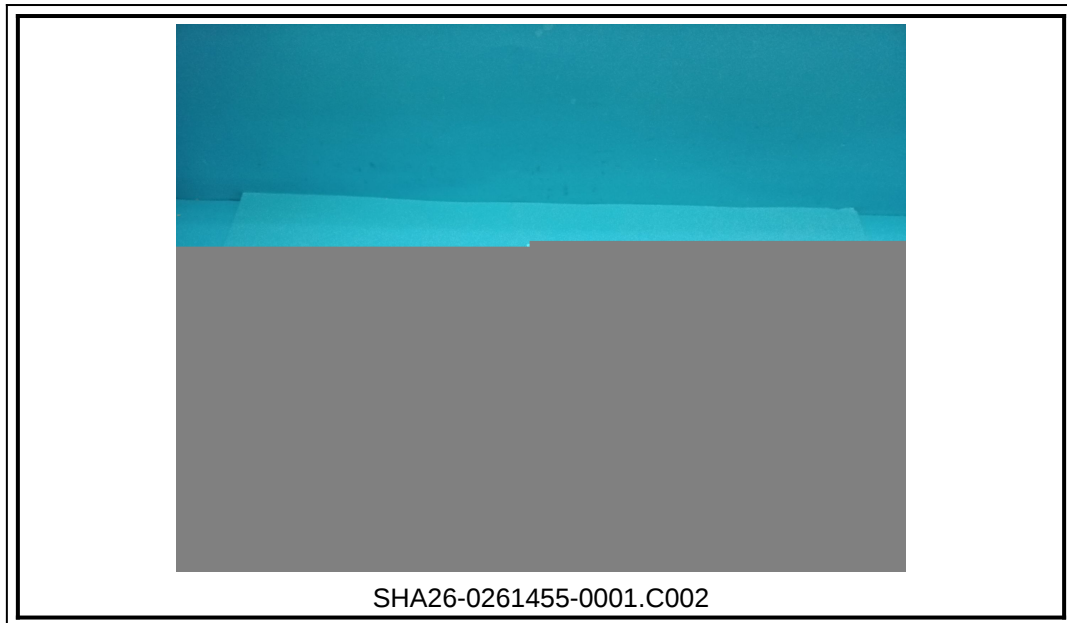
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Sample Photo:



SGS authenticate the photo on original report only  
\*\*\* End of Report \*\*\*