

## Test Report

No.: CANEC26002831507

Date: Feb 06, 2026

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Client Name: SHENGYI TECHNOLOGY CO.,LTD.

Client Address: NO.5, GONGYE WEST ROAD, SONGSHAN LAKE, DONGGUAN, GUANGDONG PROVINCE, CHINA

Sample Name: Flexible Copper Clad Laminate

Model No.: SL

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

SGS Job No.: SZP26-005540

Sample Receiving Date: Jan 30, 2026

Testing Period: Jan 30, 2026 ~ Feb 06, 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 |
| Element(s)                                                                                                                                                                                                                                                                                                                | See Results |
| Phthalates                                                                                                                                                                                                                                                                                                                | See Results |
| Hexabromocyclododecane (HBCDD)                                                                                                                                                                                                                                                                                            | See Results |
| Perfluorooctane sulfonic acid (PFOS) and its derivatives and Perfluorooctanoic acid (PFOA) and its salts                                                                                                                                                                                                                  | See Results |

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

*Dongyu Xie*

Dongyu Xie  
Approved Signatory

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### Test Result(s):

### Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description                    |
|-------|------------|-------------------------|--------------------------------|
| SN1   | A5         | CAN26-0028315-0001.C005 | Single-sided copper-clad board |

### 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 | A5 |
|-------------------------------------------|-------|---------|-----|----|
| 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 | A5 |
|-----------------------------------------|-------|---------|-----|----|
| 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 | A5 |
|--------------|---------|-----|----|
| Fluorine(F)  | mg/kg   | 20  | ND |
| Chlorine(Cl) | mg/kg   | 50  | ND |
| Bromine(Br)  | mg/kg   | 50  | ND |
| Iodine(I)    | 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 | A5 |
|---------------|---------|-----|----|
| Arsenic(As)   | mg/kg   | 10  | ND |
| Beryllium(Be) | mg/kg   | 5   | ND |
| Antimony(Sb)  | mg/kg   | 10  | ND |

### Phthalates

**Test Method:** With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

| Test Item(s)                       | CAS No.                   | Unit(s) | MDL | A5 |
|------------------------------------|---------------------------|---------|-----|----|
| Dibutyl Phthalate(DBP)             | 84-74-2                   | mg/kg   | 50  | ND |
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 117-81-7                  | mg/kg   | 50  | ND |
| Benzyl Butyl Phthalate(BBP)        | 85-68-7                   | mg/kg   | 50  | ND |
| Diisononyl Phthalate (DINP)        | 28553-12-0<br>/68515-48-0 | mg/kg   | 50  | ND |
| Di-n-Octyl Phthalate(DNOP)         | 117-84-0                  | mg/kg   | 50  | ND |



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| Test Item(s)                                                                  | CAS No.                   | Unit(s) | MDL | A5 |
|-------------------------------------------------------------------------------|---------------------------|---------|-----|----|
| Diisodecyl Phthalate (DIDP)                                                   | 26761-40-0<br>/68515-49-1 | mg/kg   | 50  | ND |
| Diisobutyl Phthalate(DIBP)                                                    | 84-69-5                   | mg/kg   | 50  | ND |
| Bis(2-methoxyethyl)phthalate(DMEP)                                            | 117-82-8                  | mg/kg   | 50  | ND |
| Di-n-Hexyl Phthalate(DnHP)                                                    | 84-75-3                   | mg/kg   | 50  | ND |
| Dipentyl Phthalate (DPENP/DnPP)                                               | 131-18-0                  | mg/kg   | 50  | ND |
| Dimethyl Phthalate(DMP)                                                       | 131-11-3                  | mg/kg   | 50  | ND |
| Diisooctyl Phthalate(DIOP)                                                    | 27554-26-3                | mg/kg   | 50  | ND |
| Diisopentyl Phthalate(DIPP)                                                   | 605-50-5                  | mg/kg   | 50  | ND |
| n-pentyl Isopentyl Phthalate(nPIPP)                                           | 776297-69-9               | mg/kg   | 50  | ND |
| 1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP)      | 71888-89-6                | mg/kg   | 50  | ND |
| 1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters(DHNUP) | 68515-42-4                | mg/kg   | 50  | ND |
| 1,2-Benzenedicarboxylic Acid,Dipentyl Ester,Branched and Linear(DPP)          | 84777-06-0                | mg/kg   | 50  | ND |
| 1,2-benzenedicarboxylic Acid,dihexyl ester branched and linear(DHxP)          | 68515-50-4                | 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 | A5 |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------|-----|----|
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) | 134237-50-6<br>/134237-51-7<br>/134237-52-8<br>/25637-99-4<br>/3194-55-6 | mg/kg   | 20  | ND |

## Perfluorooctane sulfonic acid (PFOS) and its derivatives and Perfluorooctanoic acid (PFOA) and its salts

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

| Test Item(s)                                                 | CAS No.    | Unit(s) | MDL   | A5 |
|--------------------------------------------------------------|------------|---------|-------|----|
| <b>PFOS, its salts and related compounds</b>                 |            |         |       |    |
| Perfluorooctane sulfonic acid (PFOS), its salts <sup>^</sup> | 1763-23-1  | mg/kg   | 0.010 | ND |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOA)               | 4151-50-2  | mg/kg   | 0.010 | ND |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOA)              | 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 |



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| Test Item(s)                                                                         | CAS No.   | Unit(s) | MDL   | A5 |
|--------------------------------------------------------------------------------------|-----------|---------|-------|----|
| Perfluorooctane Sulfonamide (PFOSA), its salts <sup>^</sup>                          | 754-91-6  | mg/kg   | 0.010 | ND |
| Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts <sup>^</sup>               | 2806-24-8 | mg/kg   | 0.010 | ND |
| N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts <sup>^</sup> | 2355-31-9 | mg/kg   | 0.010 | ND |
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts <sup>^</sup>    | 2991-50-6 | mg/kg   | 0.010 | ND |
| Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives                      | -         | mg/kg   | -     | ND |
| <b>PFOA, its salts</b>                                                               |           |         |       |    |
| Perfluorooctanoic acid (PFOA), its salts <sup>^</sup>                                | 335-67-1  | mg/kg   | 0.010 | ND |

### Notes:

1. <sup>^</sup>=Substances refer to its salts/derivative listed in below table.

| Substance 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-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )                                                                                                | 54439-46-2  |
| 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 |



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| Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate                                                                                | 258341-99-0  |
| 1-Hexadecylpyridinium perfluoro-1-octanesulfonate                                                                                                   | 334529-63-4  |
| N,N,N-Triethyldecan-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   |
| <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    |
| <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>                                                                                                            |              |
| Perfluorooctanoic acid (PFOA)                                                                                                                       | 335-67-1     |
| Sodium perfluorooctanoate (PFOA-Na)                                                                                                                 | 335-95-5     |
| Potassium perfluorooctanoate (PFOA-K)                                                                                                               | 2395-00-8    |



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|                                                                                                              |              |
|--------------------------------------------------------------------------------------------------------------|--------------|
| Silver perfluorooctanote (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     |

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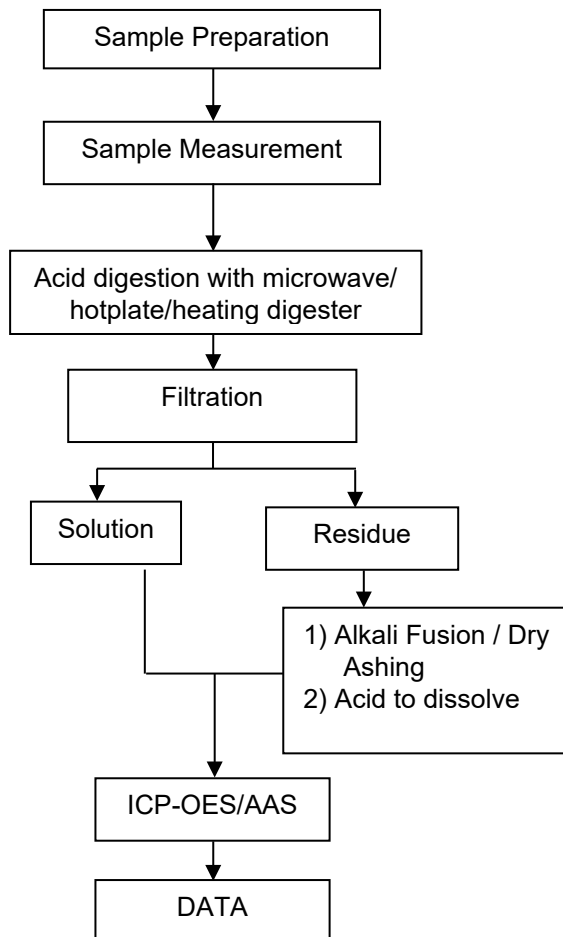
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### Elements Testing Flow Chart

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



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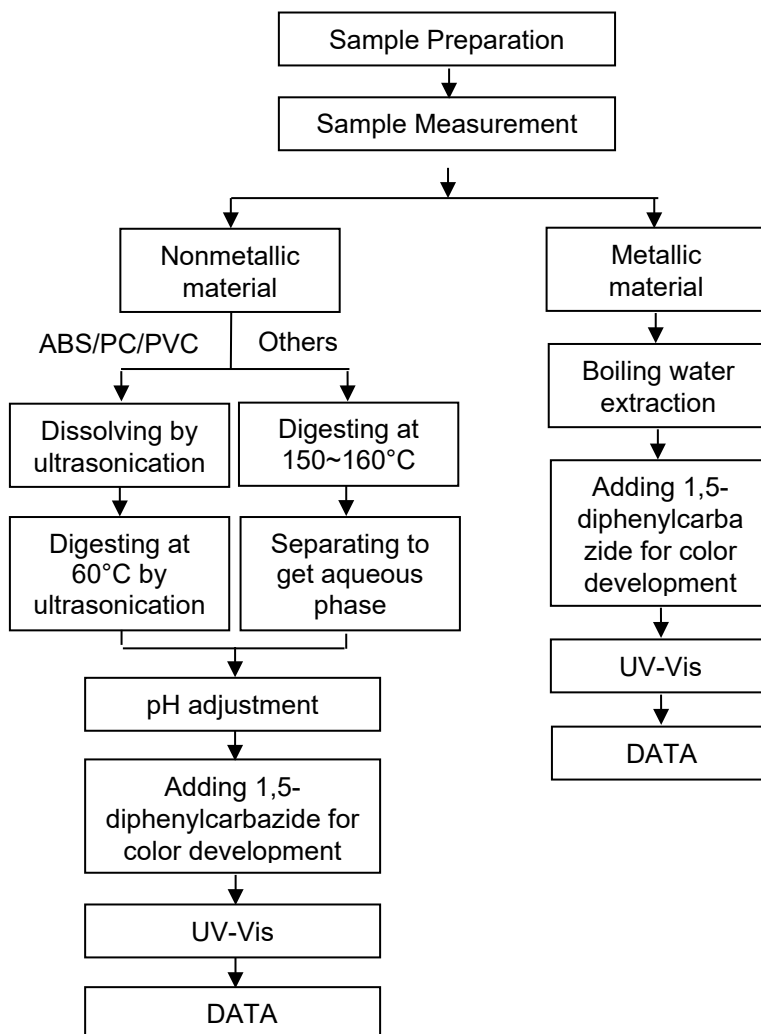
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### Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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



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### Phthalates Testing Flow Chart



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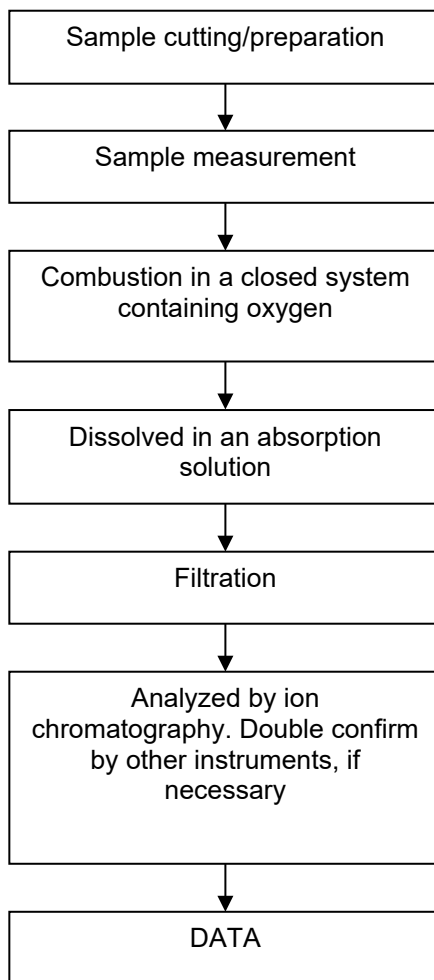
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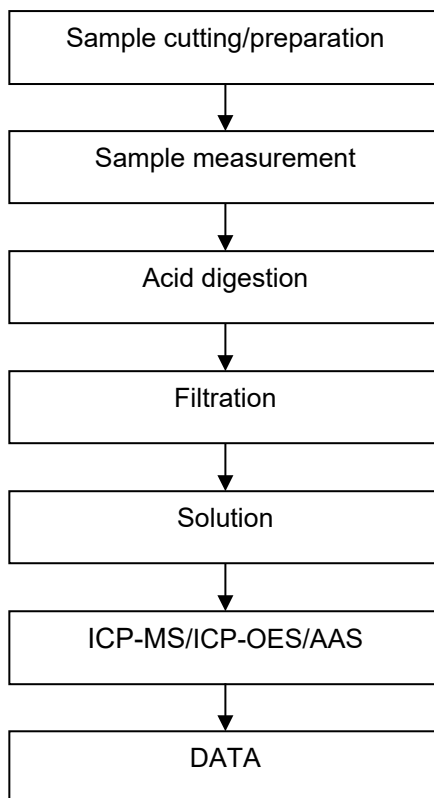
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#### Halogen Testing Flow Chart



## Elements Testing Flow Chart



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### HBCDD Testing Flow Chart



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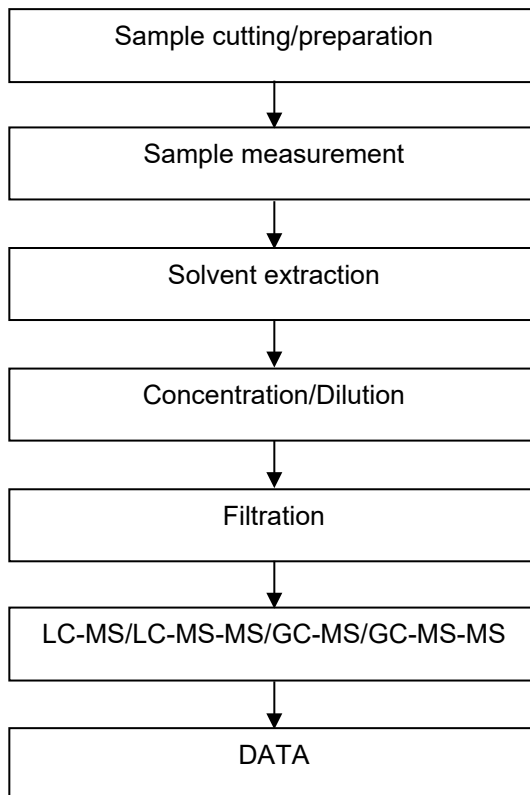
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## PFASs/ PFOS/PFOA Testing Flow Chart



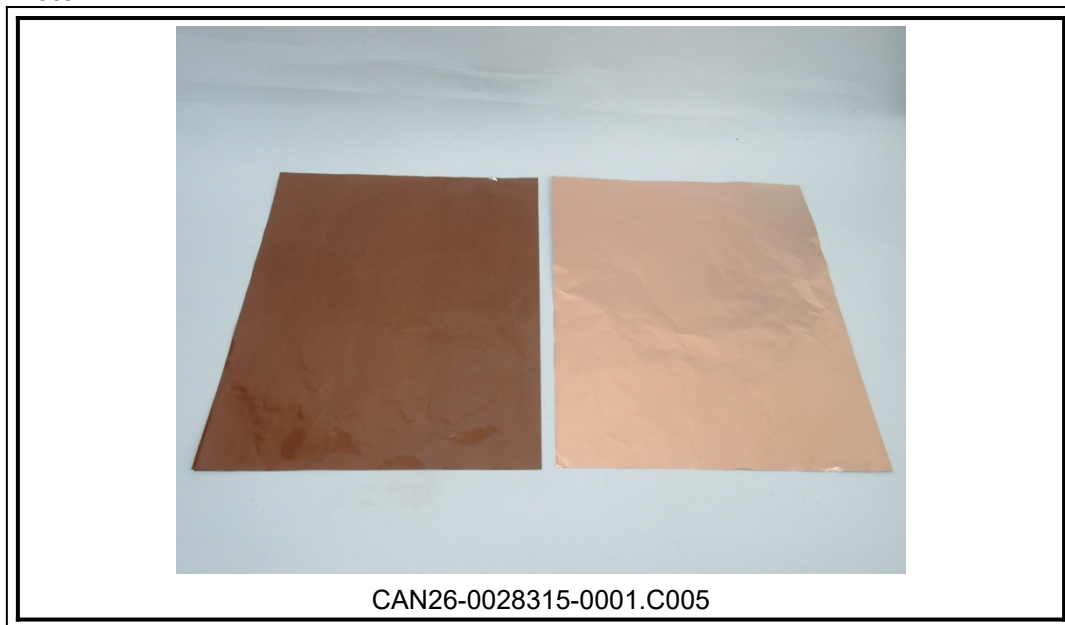
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