

Test Report

No.: TAOEC25011186001

Date: Nov 25, 2025

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Client Name: JINAN JIHLONG TECHNOLOGY CO.,LTD

Client Address: NO.5,TAI-XING ST.W.JIYANG TOWN, JIYANG COUNTY, JINAN, SHANDONG, CHINA

Sample Name: COPPER

Main Substance: Cu(C19210)

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

SGS Job No.: QDP25-006387

Sample Receiving Date: Nov 18, 2025

Testing Period: Nov 18, 2025 ~ Nov 21, 2025

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 |
| Element(s) | See Results |
| Hexabromobenzene (HBB) and Hexabromocyclododecane (HBCDD/HBCD) | See Results |
| Polychlorinated Biphenyls (PCBs) | See Results |
| Polychlorinated Naphthalenes (PCNs) | See Results |
| Polychlorinated Terphenyls (PCTs) | See Results |
| Polyvinyl chloride (PVC) | See Results |
| short chain-chlorinated paraffins (SCCPs) | See Results |

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

Esther He

Esther He
Approved Signatory

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| Test Requirement | Conclusion |
|--|-------------|
| Halogen | See Results |
| Organic-tin compounds | See Results |
| PFOS, its salts and related compounds, PFOA, its salts | See Results |

Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|--------------|
| SN1 | A1 | TAO25-0111860-0001.C001 | copper metal |

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 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s) | Limit | Unit(s) | MDL | A1 |
|---|-------|--------------------|------|----|
| 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))▼ | - | µg/cm ² | 0.10 | ND |
| Polybrominated biphenyls (PBB) | 1000 | mg/kg | - | ND |
| Monobrominated biphenyl (MonoBB) | - | mg/kg | 25 | ND |
| Dibrominated biphenyl (DiBB) | - | mg/kg | 25 | ND |
| Tribrominated biphenyl (TriBB) | - | mg/kg | 25 | ND |
| Tetrabrominated biphenyl (TetraBB) | - | mg/kg | 25 | ND |
| Pentabrominated biphenyl (PentaBB) | - | mg/kg | 25 | ND |
| Hexabrominated biphenyl (HexaBB) | - | mg/kg | 25 | ND |
| Heptabrominated biphenyl (HeptaBB) | - | mg/kg | 25 | ND |
| Octabrominated biphenyl (OctaBB) | - | mg/kg | 25 | ND |
| Nonabrominated biphenyl (NonaBB) | - | mg/kg | 25 | ND |
| Decabrominated biphenyl (DecaBB) | - | mg/kg | 25 | ND |
| Polybrominated diphenyl ethers (PBDE) | 1000 | mg/kg | - | ND |
| Monobrominated diphenyl ether (MonoBDE) | - | mg/kg | 25 | ND |
| Dibrominated diphenyl ether (DiBDE) | - | mg/kg | 25 | ND |
| Tribrominated diphenyl ether (TriBDE) | - | mg/kg | 25 | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | - | mg/kg | 25 | ND |



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中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

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| Test Item(s) | Limit | Unit(s) | MDL | A1 |
|---|-------|---------|-----|----|
| Pentabrominated diphenyl ether (PentaBDE) | - | mg/kg | 25 | ND |
| Hexabrominated diphenyl ether (HexaBDE) | - | mg/kg | 25 | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | - | mg/kg | 25 | ND |
| Octabrominated diphenyl ether (OctaBDE) | - | mg/kg | 25 | ND |
| Nonabrominated diphenyl ether (NonaBDE) | - | mg/kg | 25 | ND |
| Decabrominated diphenyl ether (DecaBDE) | - | mg/kg | 25 | 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) ▼ =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Element(s)

Test Method: With reference to US EPA 3050B:1996, analysis was performed by ICP-OES/AAS.

| Test Item(s) | Unit(s) | MDL | A1 |
|---------------|---------|-----|-----|
| Antimony(Sb) | mg/kg | 10 | ND |
| Phosphorus(P) | mg/kg | 20 | 515 |
| Beryllium(Be) | mg/kg | 5 | ND |
| Arsenic(As) | mg/kg | 10 | ND |

Hexabromobenzene (HBB) and Hexabromocyclododecane (HBCDD/HBCD)

Test Method: With reference to US EPA 3550C:2007, analysis was performed by GC-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A1 |
|--------------------------------|---|---------|-----|----|
| Hexabromocyclododecane (HBCDD) | 134237-50-6 /134237-51-7 /134237-52-8 | mg/kg | 10 | ND |



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SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
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| Test Item(s) | CAS No. | Unit(s) | MDL | A1 |
|--------------|---------------------------|---------|-----|----|
| | /25637-99-4 /3194-55-6 | | | |

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 |

Polychlorinated Naphthalenes (PCNs)

Test Method: With reference to US EPA 8081B:2007, analysis was performed by GC-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A1 |
|--|------------|---------|-----|----|
| 1-Chlorinated Naphthalene | 90-13-1 | mg/kg | 5 | ND |
| 2-Chlorinated Naphthalene | 91-58-7 | mg/kg | 5 | ND |
| 1,4-Dichlorinated Naphthalene | 1825-31-6 | mg/kg | 5 | ND |
| 1,5-Dichlorinated Naphthalene | 1825-30-5 | mg/kg | 5 | ND |
| 1,2-Dichlorinated Naphthalene | 2050-69-3 | mg/kg | 5 | ND |
| 1,8-Dichlorinated Naphthalene | 2050-74-0 | mg/kg | 5 | ND |
| 1,2,3-Trichlorinated Naphthalene | 50402-52-3 | mg/kg | 5 | ND |
| 1,2,3,4-Tetrachlorinated Naphthalene | 20020-02-4 | mg/kg | 5 | ND |
| 1,2,3,4,6-Pentachlorinated Naphthalene | 67922-26-3 | mg/kg | 5 | ND |
| Octa-chlorinated Naphthalene | 2234-13-1 | mg/kg | 5 | ND |
| Polychlorinated Naphthalenes (PCNs) | 70776-03-3 | mg/kg | 5 | ND |

Polychlorinated Terphenyls (PCTs)

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

| Test Item(s) | CAS No. | Unit(s) | MDL | A1 |
|--------------|------------|---------|-----|----|
| Aroclor 5432 | 63496-31-1 | mg/kg | 5 | ND |
| Aroclor 5442 | 12642-23-8 | mg/kg | 5 | ND |
| Aroclor 5460 | 11126-42-4 | mg/kg | 5 | ND |
| Sum of PCT | - | mg/kg | 5 | ND |



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Polyvinyl chloride (PVC)

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

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

Notes:

(1) Negative=Undetectable, Positive=Detectable

short chain-chlorinated paraffins (SCCPs)

Test Method: With reference to ISO 18219-1:2021, analysis was performed by GC-NCI-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A1 |
|---|------------|---------|-----|----|
| Short Chain Chlorinated Paraffin(C10-C13)(SCCP) | 85535-84-8 | mg/kg | 50 | ND |

Halogen

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

| 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 |

Organic-tin compounds

Test Method: With reference to ISO 17353:2004, analysis was performed by GC-MS.

| Test Item(s) | Unit(s) | MDL | A1 |
|---------------------------------|---------|------|----|
| Dibutyl tin(DBT) | mg/kg | 0.02 | ND |
| Tributyl tin(TBT) | mg/kg | 0.02 | ND |
| Diocetyl tin(DOT) | mg/kg | 0.02 | ND |
| Tri-n-propyltin(TPT) | mg/kg | 0.02 | ND |
| Bis(tributyltin) oxide (TBTO) ◆ | mg/kg | 0.02 | ND |

Notes:

(1) ◆ TBTO is back calculated based on the worst-case scenario of TBT.

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.

| Test Item(s) | CAS No. | Unit(s) | MDL | A1 |
|------------------------|---------|---------|-----|----|
| PFOS, its salts | | | | |



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| Test Item(s) | CAS No. | Unit(s) | MDL | A1 |
|--|------------|---------|-------|----|
| Perfluorooctane sulfonic acid (PFOS), its salts [^] | 1763-23-1 | mg/kg | 0.010 | ND |
| PFOS-related compounds | | | | |
| 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 |
| PFOA, its salts | | | | |
| 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. |
|--|-------------|
| PFOS, its salts & derivatives | |
| 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 ₄) | 29081-56-9 |
| Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂) | 70225-14-8 |
| Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄) | 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 ₁₀ H ₂₁) ₂ (CH ₃) ₂) | 251099-16-8 |
| TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄) | 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 ₂ H ₅) ₃) | 54439-46-2 |
| Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄) | 56773-44-5 |
| N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁)) | 56773-56-9 |



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SGS Center, No.143, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China 266101
 中国·山东·青岛市崂山区株洲路143号通标中心 邮编: 266101

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| | |
|---|--------------|
| N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₄ H ₉) ₃ (CH ₃)) | 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 ₄ H ₉) ₄) | 2185049-59-4 |
| Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N) | 2205029-08-7 |
| heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂) | 1203998-97-3 |
| Perfluorooctane sulfonic anhydride (PFOSAN) | 423-92-7 |
| Perfluoro-1-octanesulfonyl chloride (PFOS-Cl) | 423-60-9 |
| FOSAA, its salts | |
| 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 |
| N-MeFOSAA, its salts | |
| 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 |
| N-EtFOSAA, its salts | |
| 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 ₄) | 2991-52-8 |
| Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) | 3871-50-9 |
| PFOSA, its salts | |
| 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 ₄) | 76752-72-2 |
| Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N) | 76752-82-4 |
| PFOA, its salts & derivatives | |
| 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 |



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Test Report

No.: TAOEC25011186001

Date: Nov 25, 2025

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| | |
|--|--------------|
| Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C ₄ H ₁₀ 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 ₂ O) ₂) | 98065-31-7 |
| Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N) | 1376936-03-6 |
| Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C ₅ H ₅ N) | 95658-47-2 |
| pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂) | 1514-68-7 |
| N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C ₁₁ H ₂₆ N) | 927835-01-6 |
| Pentadecafluorooctanoyl chloride (PFOA-Cl) | 335-64-8 |

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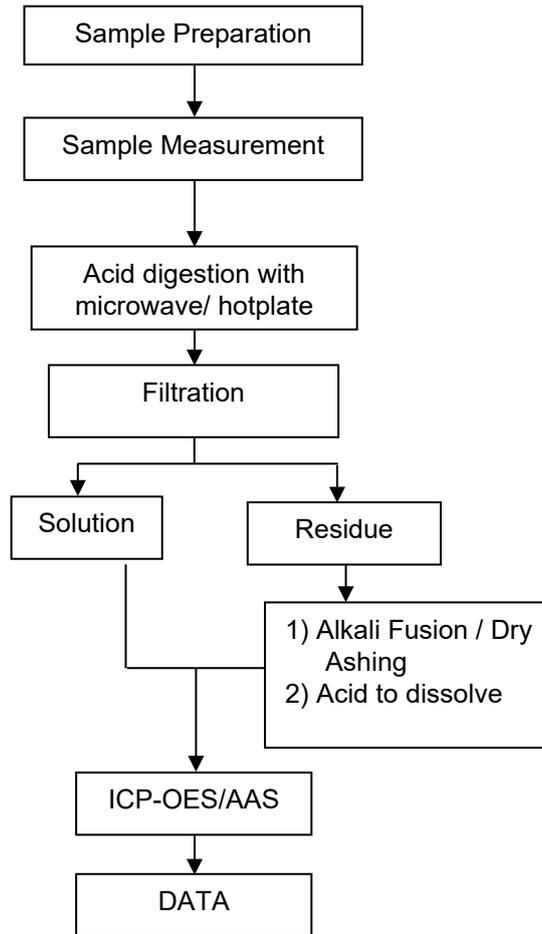
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Elements Testing Flow Chart

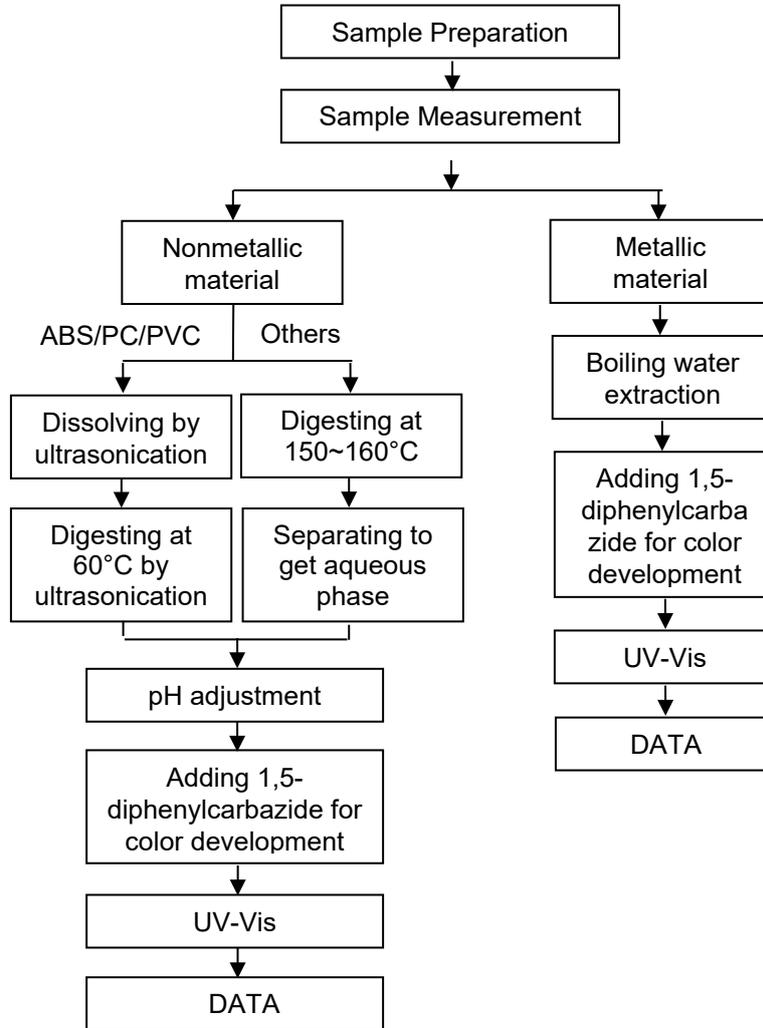
These samples were dissolved totally by pre-conditioning method according to below flow chart.



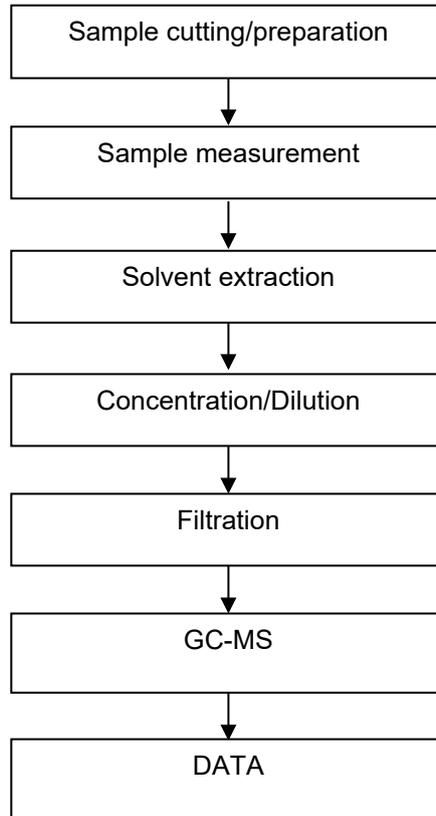
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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



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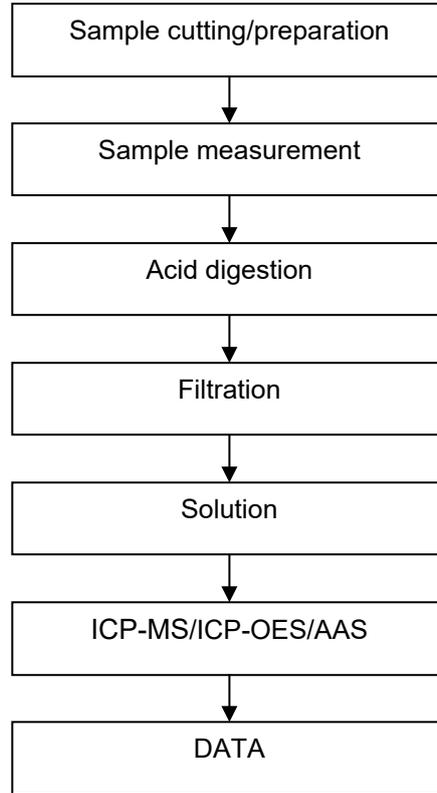
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Elements Testing Flow Chart



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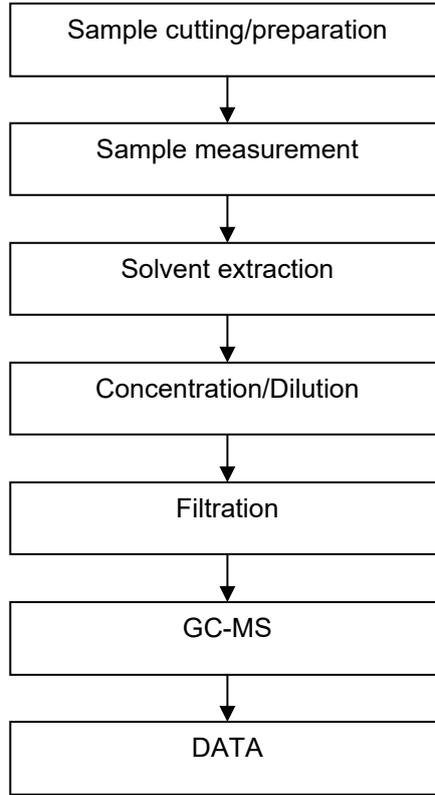
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HBCDD Testing Flow Chart



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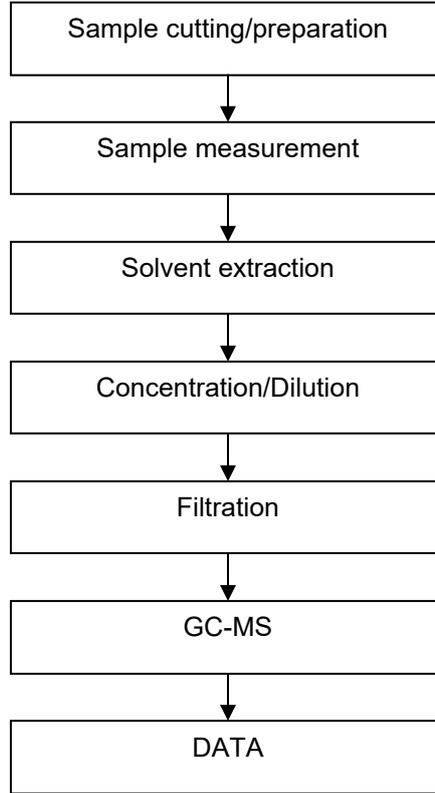
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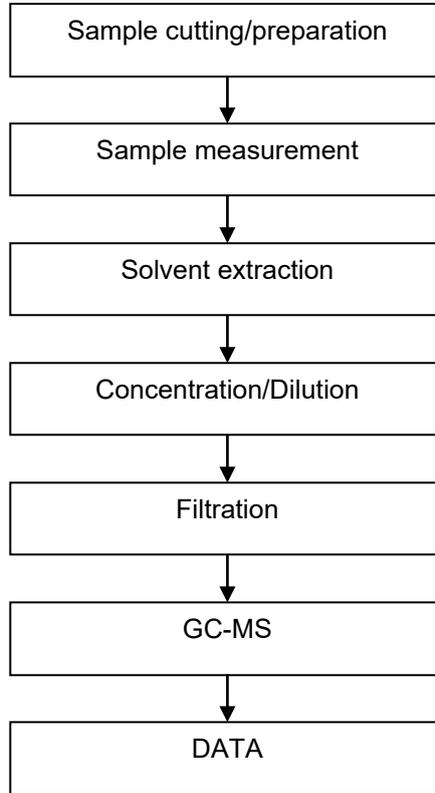
PCB Testing Flow Chart



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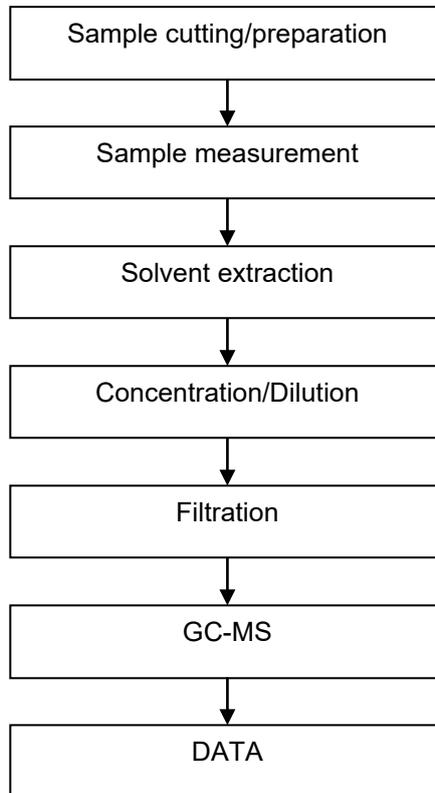
PCN Testing Flow Chart



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PCT Testing Flow Chart



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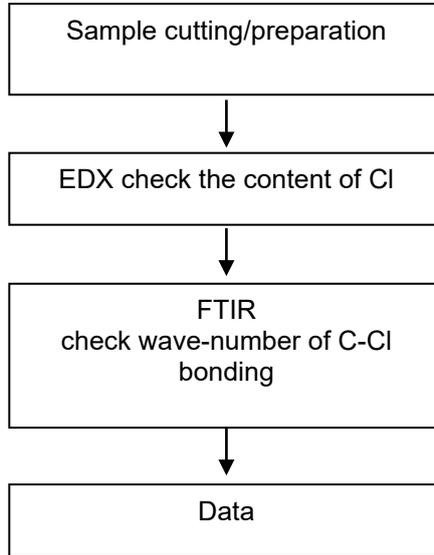
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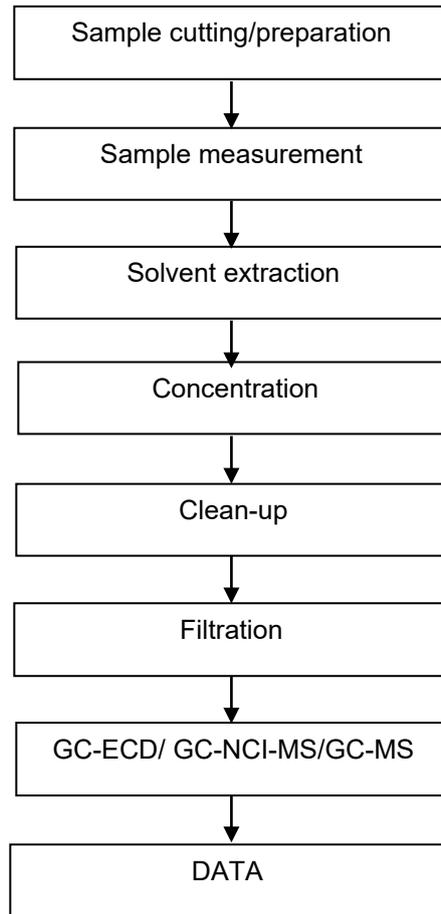
PVC Testing Flow Chart



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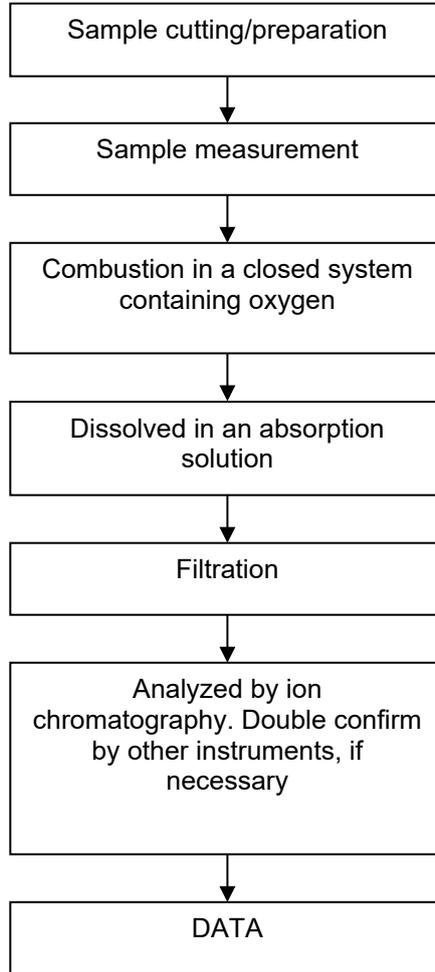
Chlorinated Paraffin Testing Flow Chart



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Halogen Testing Flow Chart



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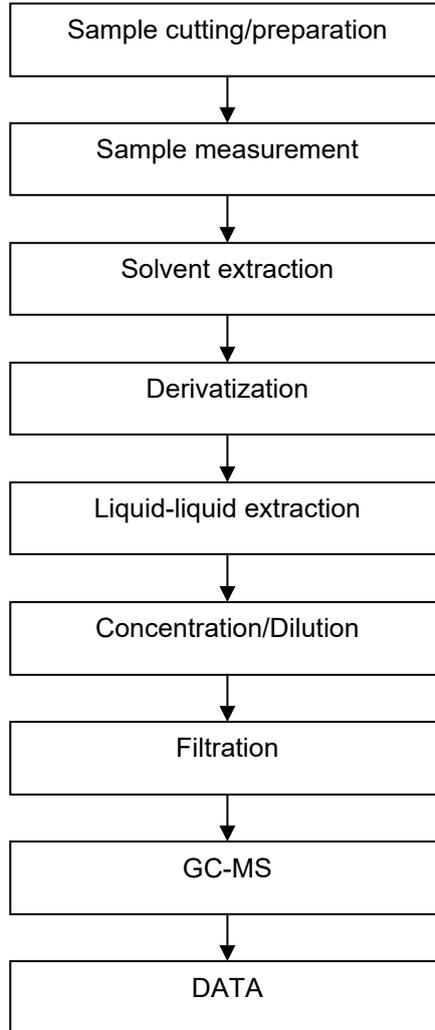
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Organotin Testing Flow Chart



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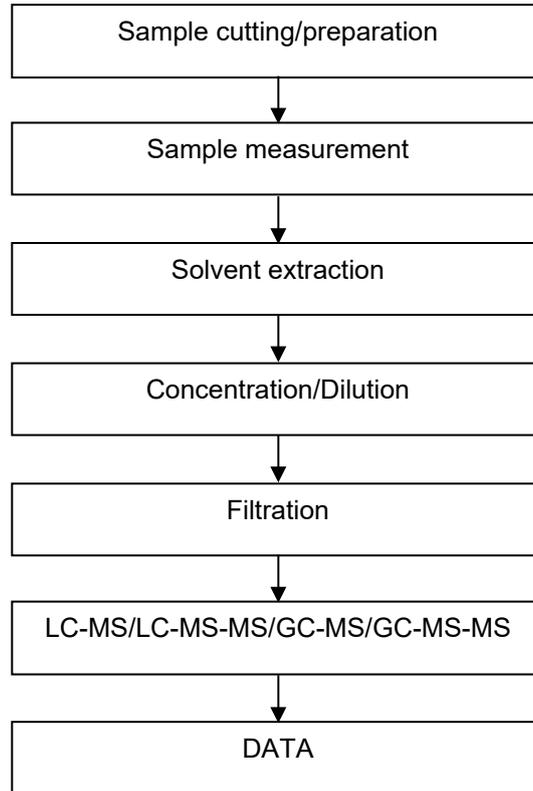
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PFASs/ PFOS/PFOA Testing Flow Chart



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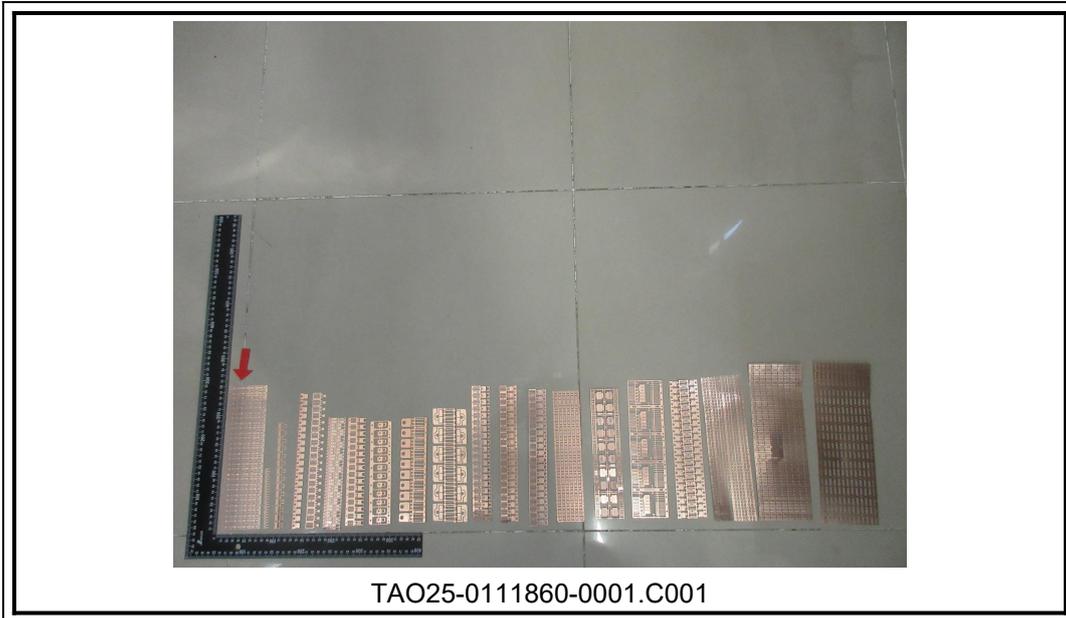
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