

Test Report

No.: NGBEC25002929701

Date: May 19, 2025

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Client Name: KONFOONG MATERIALS INTERNATIONAL CO, LTD

Client Address: NO.198 ANSHAN RD .MINGBANG TECH & INDUSTRY PARK, YUYAO,ZHEJIANG ,P. R. C

Sample Name: Cu

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

SGS Job No.: NBP25-003453

Sample Receiving Date: May 12, 2025

Testing Period: May 12, 2025 ~ May 19, 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 |
|-------------------------------------|-------------|
| Chlorinated Paraffins | See Results |
| Flame Retardants | See Results |
| Organic-Tin compounds | See Results |
| Polychlorinated Biphenyls (PCBs) | See Results |
| Polychlorinated Naphthalenes (PCNs) | See Results |
| Polychlorinated Terphenyls (PCTs) | See Results |
| Polyvinyl chloride (PVC) | See Results |
| Halogen | See Results |
| Elements | See Results |
| Perfluorinated Compounds(PFCs) | See Results |

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



May Zhang
Approved Signatory

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868C8A13



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| Test Requirement | Conclusion |
|---|-------------|
| Phthalates | See Results |
| 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 Diisobutylphthalate (DIBP) | Pass |

Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|--------------|
| SN1 | A1 | NGB25-0029297-0001.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

Chlorinated Paraffins

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

| Test Item(s) | CAS No. | Unit(s) | MDL | A1 |
|---|------------|---------|-----|----|
| Short Chain Chlorinate Paraffins(SCCP)(C ₁₀ -C ₁₃) | 85535-84-8 | mg/kg | 50 | ND |

Flame Retardants

Test Method: With reference to US EPA 3550C:2007 and US EPA 8270E:2018, analysis was performed by GC-MS/HPLC-DAD-MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A1 |
|--------------------------------|--|---------|-----|----|
| Hexabromocyclododecane (HBCDD) | 134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6 | mg/kg | 5 | 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 | 0.5 | ND |
| Tributyl tin(TBT) | mg/kg | 0.5 | ND |
| Diocyl tin(DOT) | mg/kg | 0.5 | ND |
| Tri-n-propyltin(TPT) | mg/kg | 0.5 | ND |
| Bis(tributyltin) oxide (TBTO) ♦ | mg/kg | 0.5 | ND |

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Notes:

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

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 |
|---|------------|---------|-----|----|
| 2,2',5-Trichlorobiphenyl (PCB18) | 37680-65-2 | mg/kg | 0.5 | ND |
| 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 |
|--|------------|---------|-----|----|
| 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 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 |

Polyvinyl chloride (PVC)

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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
 (2) The test was subcontracted to SGS Shanghai chemical lab.

Halogen

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

| Test Item(s) | CAS No. | Unit(s) | MDL | A1 |
|--------------|------------|---------|-----|----|
| Fluorine(F) | 14762-94-8 | mg/kg | 20 | ND |
| Chlorine(Cl) | 22537-15-1 | mg/kg | 50 | ND |
| Bromine(Br) | 10097-32-2 | mg/kg | 50 | ND |
| Iodine(I) | 14362-44-8 | mg/kg | 50 | ND |

Elements

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

| Test Item(s) | CAS No. | Unit(s) | MDL | A1 |
|---------------|-----------|---------|-----|----|
| Arsenic(As) | 7440-38-2 | mg/kg | 10 | ND |
| Barium(Ba) | 7440-39-3 | mg/kg | 10 | ND |
| Beryllium(Be) | 7440-86-3 | mg/kg | 5 | ND |
| Antimony(Sb) | 7440-36-0 | mg/kg | 10 | ND |
| Selenium(Se) | 7782-49-2 | mg/kg | 10 | ND |

Perfluorinated Compounds(PFCs)

Test Method: With reference to Modified EN 17681-1:2022, analysis was performed by HPLC-MS or LC-MS/MS.

| Test Item(s) | CAS No. | Unit(s) | MDL | A1 |
|--|-----------|---------|------|----|
| Perfluorooctane sulfonates (PFOS) [^] | 1763-23-1 | mg/kg | 0.01 | ND |
| Perfluorooctanoic acid (PFOA) [^] | - | mg/kg | 0.01 | ND |

Notes:

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

| Substance Name | CAS No. |
|---|-----------|
| PFOS, its salts & derivatives | |
| Perfluorooctane sulfonic acid (PFOS) | 1763-23-1 |
| Potassium Perfluorooctanesulfonate (PFOS-K) | 2795-39-3 |

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| 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-N(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 |
| 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-Triethyldecan-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 |
| 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 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 |

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| Pentadecafluoroctanoic acid--piperazine (2/1) (PFOA-NH(C ₄ H ₁₀ N)) | 423-52-9 |
| Pentadecafluoroctanoate (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 pentadecafluoroctanoate--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 |
| Pentadecafluoroctanoic acid--pyridine (1/1) (PFOA-C ₅ H ₅ N) | 95658-47-2 |
| pentadecafluoroctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂) | 1514-68-7 |
| N,N,N-Trimethyloctan-1-aminium pentadecafluoroctanoate (PFOA-C ₁₁ H ₂₆ N) | 927835-01-6 |

Phthalates

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

| Test Item(s) | CAS No. | Unit(s) | MDL | A1 |
|-----------------------------|---------------------------|---------|-------|----|
| Diisonyl Phthalate (DINP) | 28553-12-0 /68515-48-0 | % | 0.01 | ND |
| Di-n-Octyl Phthalate(DNOP) | 117-84-0 | % | 0.003 | ND |
| Diisodecyl Phthalate (DIDP) | 26761-40-0 /68515-49-1 | % | 0.01 | ND |
| Di-n-Hexyl Phthalate(DnHP) | 84-75-3 | % | 0.003 | ND |

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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) | CAS No. | Limit | Unit(s) | MDL | A1 |
|------------------------------------|-------------|-------|--------------------|------|----|
| Lead(Pb) | 7439-92-1 | 1000 | mg/kg | 2 | ND |
| Mercury(Hg) | 7439-97-6 | 1000 | mg/kg | 2 | ND |
| Cadmium(Cd) | 7440-43-9 | 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) | 002113-57-7 | - | mg/kg | 25 | ND |
| Dibrominated biphenyl (DiBB) | 000092-86-4 | - | mg/kg | 25 | ND |
| Tribrominated biphenyl (TriBB) | 059080-33-0 | - | mg/kg | 25 | ND |
| Tetrabrominated biphenyl (TetraBB) | 060044-24-8 | - | mg/kg | 25 | ND |
| Pentabrominated biphenyl (PentaBB) | 059080-39-6 | - | mg/kg | 25 | ND |
| Hexabrominated biphenyl (HexaBB) | 059080-40-9 | - | mg/kg | 25 | ND |
| Heptabrominated biphenyl (HeptaBB) | 067733-52-2 | - | mg/kg | 25 | ND |

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|---|-------------|-------|---------|-----|----|
| Octabrominated biphenyl (OctaBB) | 027858-07-7 | - | mg/kg | 25 | ND |
| Nonabrominated biphenyl (NonaBB) | 069278-62-2 | - | mg/kg | 25 | ND |
| Decabrominated biphenyl (DecaBB) | 013654-09-6 | - | mg/kg | 25 | ND |
| Polybrominated diphenyl ethers (PBDE) | - | 1000 | mg/kg | - | ND |
| Monobrominated diphenyl ether (MonoBDE) | 101-55-3 | - | mg/kg | 25 | ND |
| Dibrominated diphenyl ether (DiBDE) | 2050-47-7 | - | mg/kg | 25 | ND |
| Tribrominated diphenyl ether (TribDE) | 147217-80-9 | - | mg/kg | 25 | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | 93703-48-1 | - | mg/kg | 25 | ND |
| Pentabrominated diphenyl ether (PentaBDE) | - | - | mg/kg | 25 | ND |
| Hexabrominated diphenyl ether (HexaBDE) | 182677-28-7 | - | mg/kg | 25 | ND |
| Heptabrominated diphenyl ether (HeptaBDE) | 189084-67-1 | - | mg/kg | 25 | ND |
| Octabrominated diphenyl ether (OctaBDE) | 337513-72-1 | - | mg/kg | 25 | ND |
| Nonabrominated diphenyl ether (NonaBDE) | 63387-28-0 | - | mg/kg | 25 | ND |
| Decabrominated diphenyl ether (DecaBDE) | 1163-19-5 | - | mg/kg | 25 | ND |
| Dibutyl Phthalate (DBP) | 84-74-2 | 1000 | mg/kg | 50 | ND |
| Benzyl Butyl Phthalate (BBP) | 85-68-7 | 1000 | mg/kg | 50 | ND |
| Di-2-Ethyl Hexyl Phthalate (DEHP) | 117-81-7 | 1000 | mg/kg | 50 | ND |
| Diisobutyl Phthalate (DIBP) | 84-69-5 | 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 $\mu\text{g}/\text{cm}^2$. 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 $\mu\text{g}/\text{cm}^2$). The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$ 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.

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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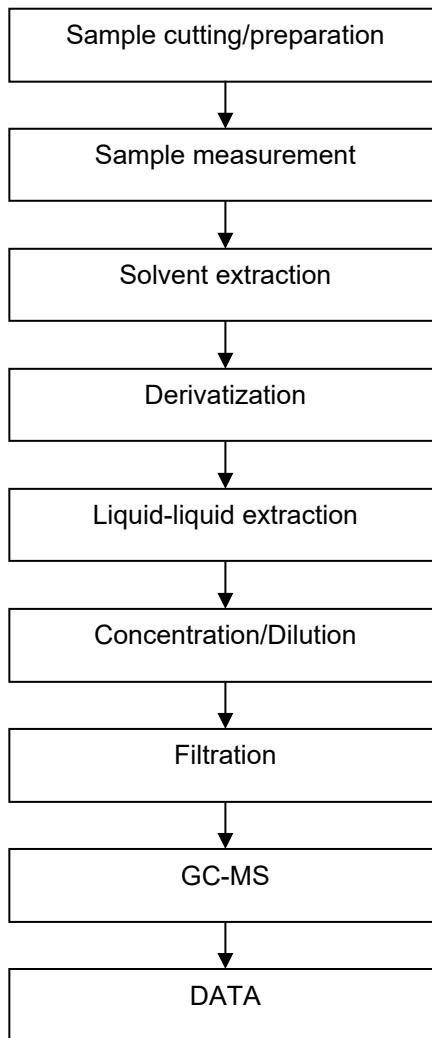
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Organotin Testing Flow Chart



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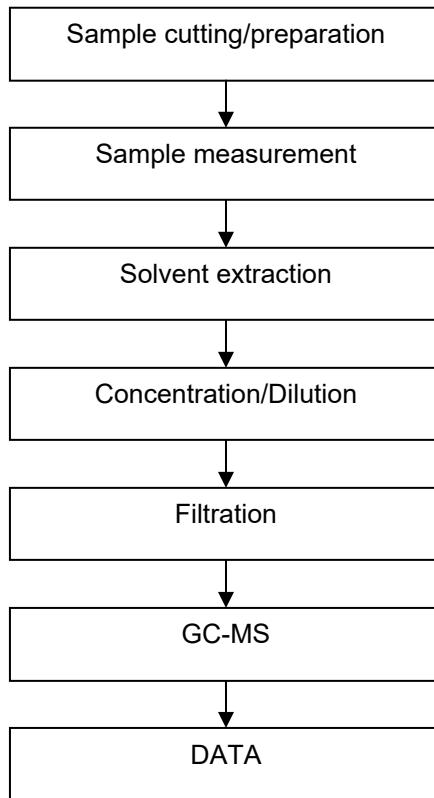
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ATTACHMENTS**PCB Testing Flow Chart**

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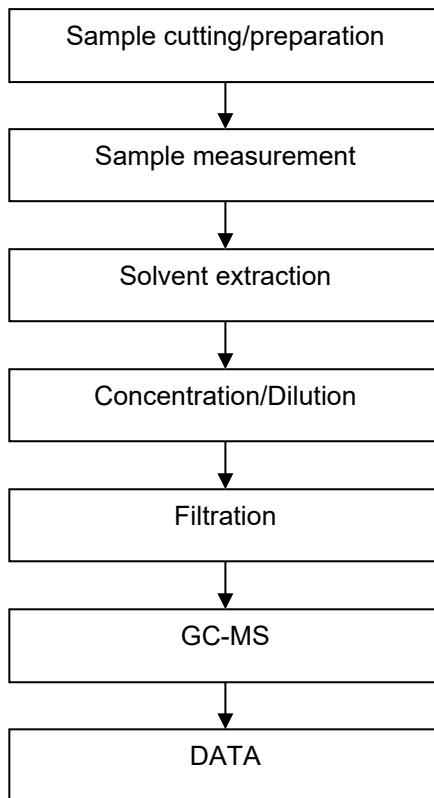
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PCN Testing Flow Chart



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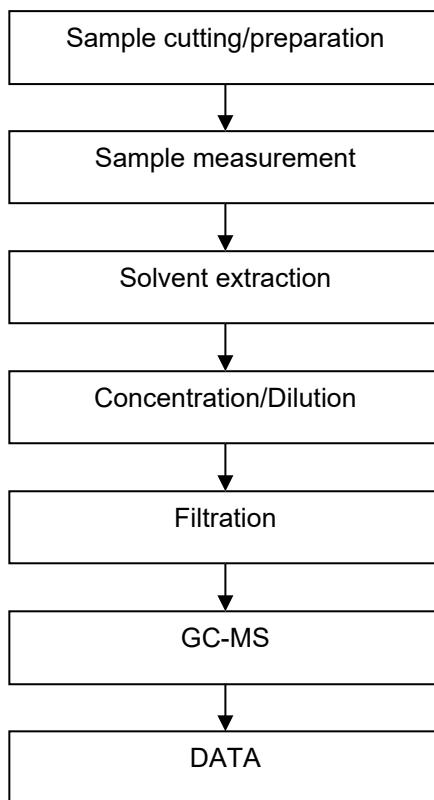
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ATTACHMENTS**PCT Testing Flow Chart**

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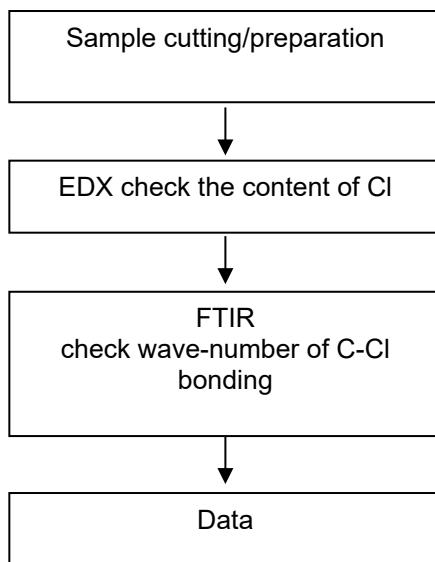
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PVC Testing Flow Chart



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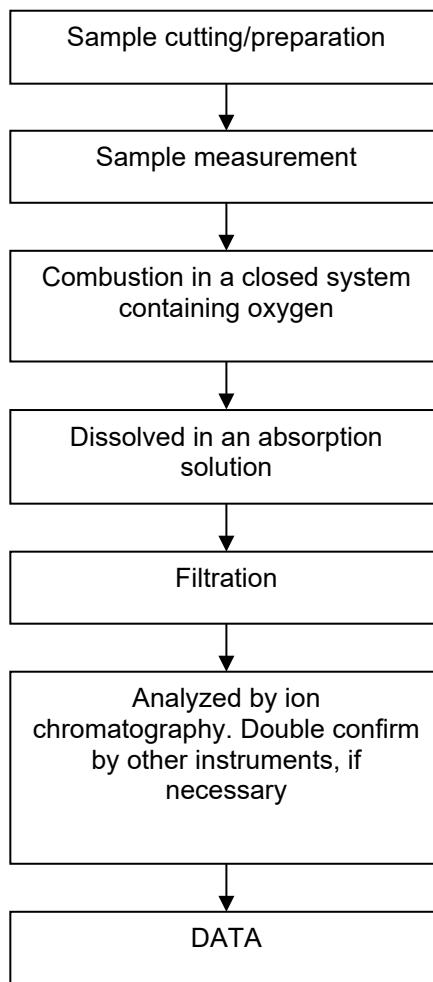
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ATTACHMENTS**Halogen Testing Flow Chart**

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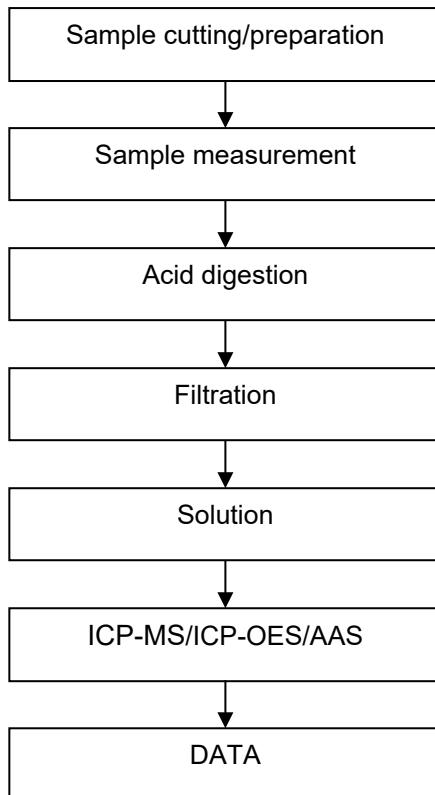
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ATTACHMENTS**Elements Testing Flow Chart**

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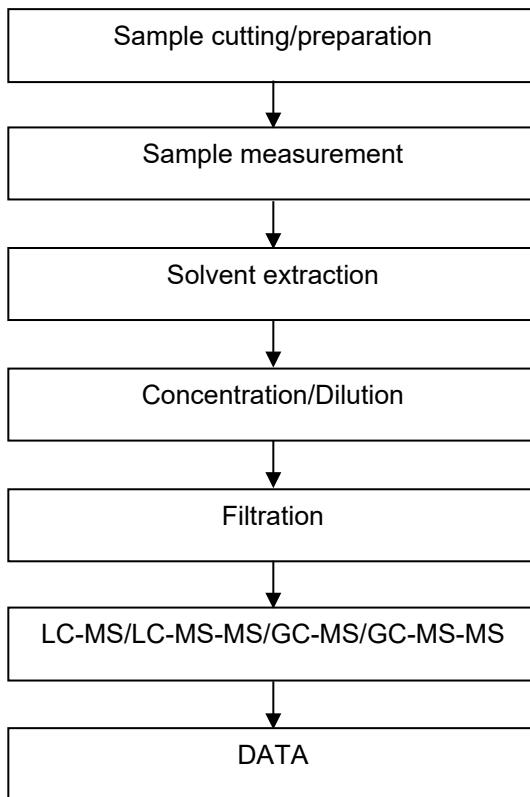
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ATTACHMENTS**PFASs/ PFOS/PFOA Testing Flow Chart**

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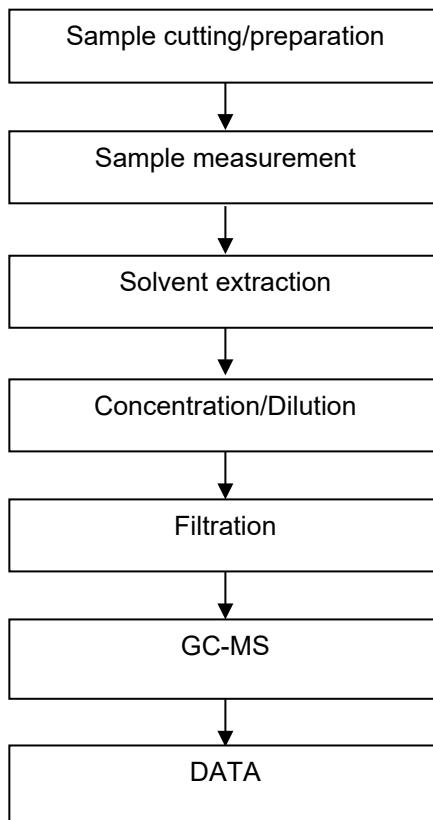
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Phthalates Testing Flow Chart



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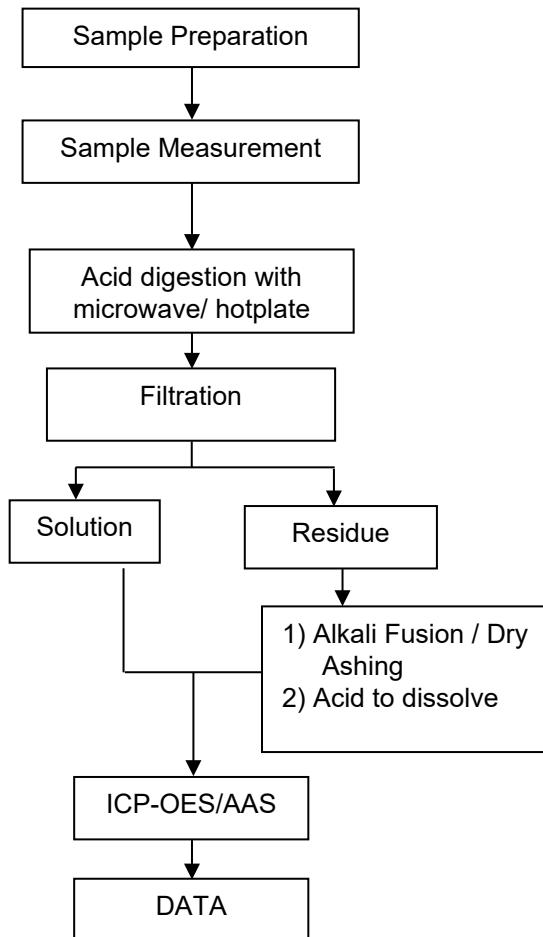
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Elements Testing Flow Chart

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



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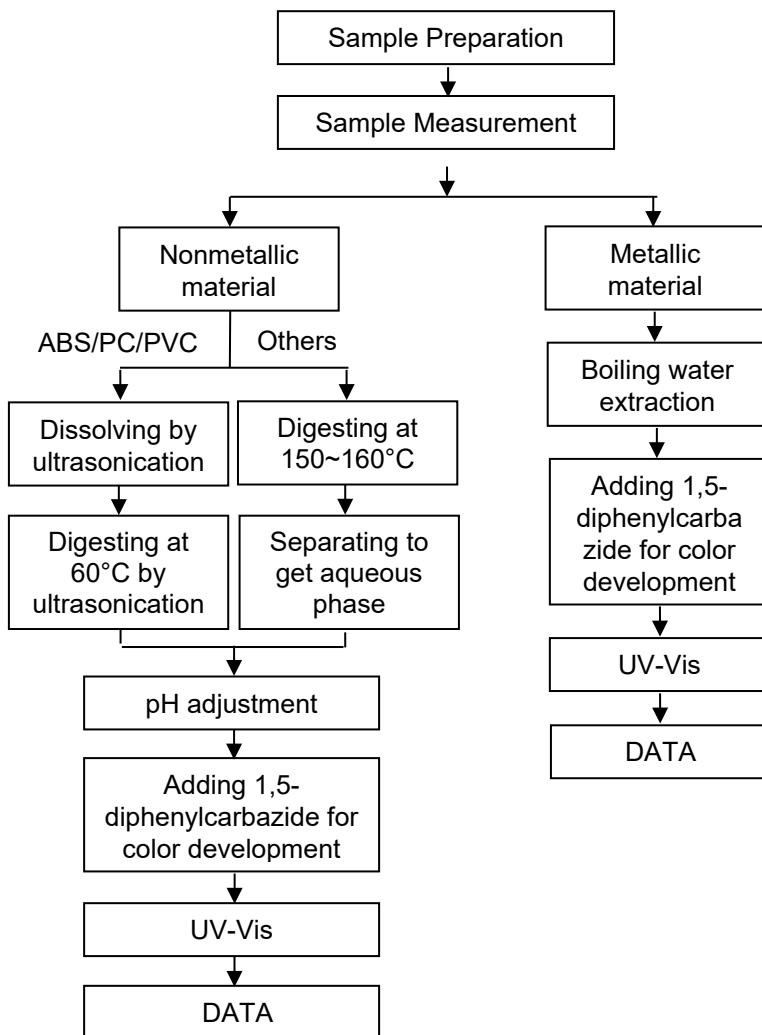
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ATTACHMENTS**Hexavalent Chromium (Cr(VI)) Testing Flow Chart**

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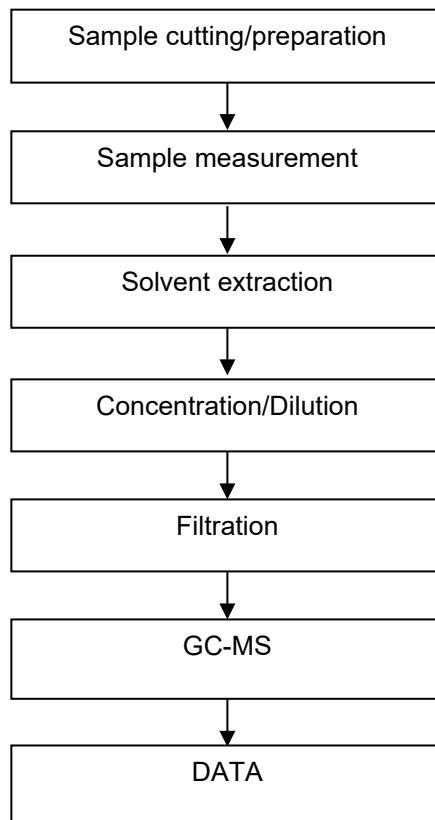
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ATTACHMENTS**PBB/PBDE/Phthalates Testing Flow Chart**

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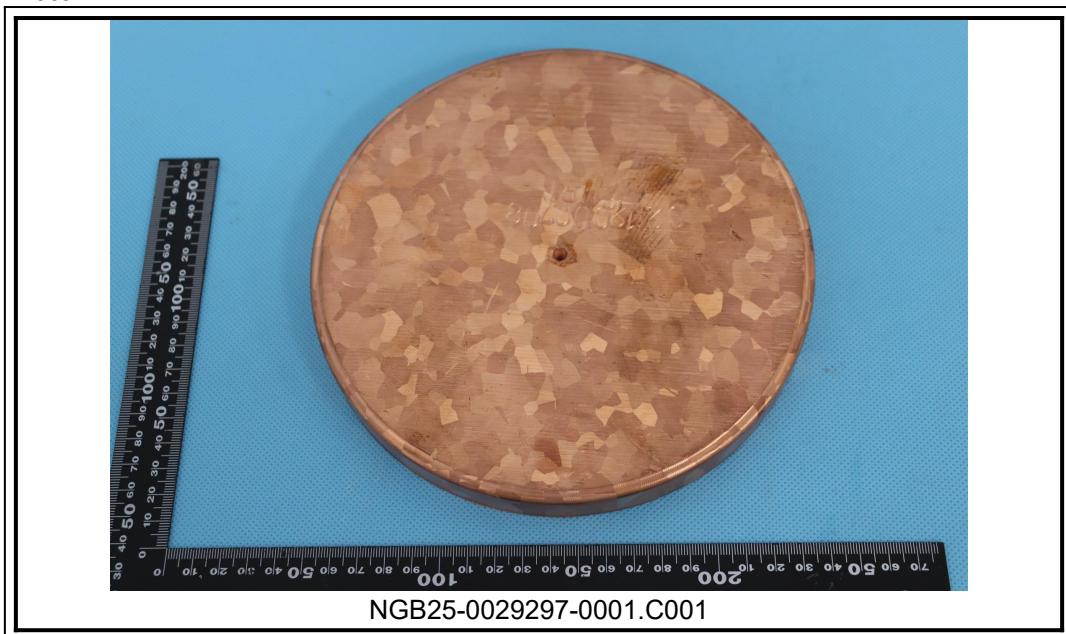
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