

## Test Report

No.: SHAEC24024409511

Date: Nov 14, 2024

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Client Name: JCET Group Co.,Ltd

Client Address: No.78, CHANGSHAN RD, JIANGYIN, JIANGSU CHINA

Sample Name: TSOT-23-6L GREEN PRODUCT-PACKAGE PART, TSOT-23-6L GREEN PRODUCT-PINLEAD PART

Client Ref. Information: SOT-23-3/5/6/8L, TSOT-23-3/5/6/8L, SOT-23-3/5/6/8L(FC), TSOT-23-3/5/6/8L(FC)

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

SGS Job No.: SHP24-034754

Sample Receiving Date: Oct 30, 2024

Testing Period: Oct 30, 2024 ~ Nov 05, 2024

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        |
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)                                                                                                                         | Pass        |
| Element(s)                                                                                                                                                                                                                                                                                                                | See Results |
| Halogen                                                                                                                                                                                                                                                                                                                   | See Results |
| Hexabromocyclododecane (HBCDD)                                                                                                                                                                                                                                                                                            | See Results |
| Phthalates                                                                                                                                                                                                                                                                                                                | See Results |
| Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctane sulfonic acid (PFOS) and its derivatives                                                                                                                                                                                                                     | 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 Requirement                                            | Conclusion  |
|-------------------------------------------------------------|-------------|
| AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs) | See Results |

### Test Result(s):

#### Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description            |
|-------|------------|-------------------------|------------------------|
| SN1   | A11        | SHA24-0244095-0001.C011 | Black body part        |
| SN2   | A12        | SHA24-0244095-0001.C012 | Silvery metal pin part |

#### 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 | A11 |
|-------------------------------------------|-------|---------|-----|-----|
| Lead (Pb)                                 | 1000  | mg/kg   | 2   | 8   |
| 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  |



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| Test Item(s)                              | Limit | Unit(s) | MDL | A11 |
|-------------------------------------------|-------|---------|-----|-----|
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 5   | ND  |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 5   | ND  |
| 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.

## EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)

**Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 and IEC 62321-6:2015, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s)                              | Limit | Unit(s)            | MDL  | A12 |
|-------------------------------------------|-------|--------------------|------|-----|
| Lead (Pb)                                 | 1000  | mg/kg              | 2    | 33  |
| Mercury (Hg)                              | 1000  | mg/kg              | 2    | ND  |
| Cadmium (Cd)                              | 100   | mg/kg              | 2    | ND  |
| Hexavalent Chromium (Cr(VI)) <sup>▼</sup> | -     | µg/cm <sup>2</sup> | 0.10 | 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  |



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| Test Item(s)                              | Limit | Unit(s) | MDL | A12 |
|-------------------------------------------|-------|---------|-----|-----|
| 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  |
| Octabrominated diphenyl ether (OctaBDE)   | -     | mg/kg   | 5   | ND  |
| Nonabrominated diphenyl ether (NonaBDE)   | -     | mg/kg   | 5   | ND  |
| Decabrominated diphenyl ether (DecaBDE)   | -     | mg/kg   | 5   | 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.

## Element(s)

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

| Test Item(s)  | Unit(s) | MDL | A11 |
|---------------|---------|-----|-----|
| Phosphorus(P) | mg/kg   | 20  | 84  |
| Antimony(Sb)  | mg/kg   | 10  | ND  |

## Halogen

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

| Test Item(s) | Unit(s) | MDL | A11 |
|--------------|---------|-----|-----|
| Fluorine(F)  | mg/kg   | 20  | ND  |
| Chlorine(Cl) | mg/kg   | 50  | ND  |
| Bromine(Br)  | mg/kg   | 50  | ND  |
| Iodine(I)    | mg/kg   | 50  | ND  |



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## 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 | A11 |
|--------------------------------|--------------------------------------------------------------------------|---------|-----|-----|
| 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  |

## Phthalates

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

| Test Item(s)                       | CAS No.                   | Unit(s) | MDL | A11 |
|------------------------------------|---------------------------|---------|-----|-----|
| 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  |
| Diisodecyl Phthalate (DIDP)        | 26761-40-0<br>/68515-49-1 | 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  |

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

**Test Method:** Modified EN 17681-1:2022, analysis was performed by LC-MS or LC-MS/MS.

| Test Item(s)                                                             | CAS No.    | Unit(s) | MDL   | A11 |
|--------------------------------------------------------------------------|------------|---------|-------|-----|
| <b>PFOS, its salts and related compounds</b>                             |            |         |       |     |
| Perfluorooctane sulfonic acid (PFOS), its salts^                         | 1763-23-1  | mg/kg   | 0.010 | ND  |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)                          | 4151-50-2  | mg/kg   | 0.010 | ND  |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)                         | 31506-32-8 | mg/kg   | 0.010 | ND  |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)              | 1691-99-2  | mg/kg   | 0.010 | ND  |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)             | 24448-09-7 | mg/kg   | 0.010 | ND  |
| Perfluorooctane Sulfonamide (PFOSA), 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  |



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| Test Item(s)                                                          | CAS No.   | Unit(s) | MDL   | A11 |
|-----------------------------------------------------------------------|-----------|---------|-------|-----|
| N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts^ | 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^                             | 335-67-1  | mg/kg   | 0.010 | ND  |

## Notes:

1. ^=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  |
| 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 |



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|                                                                                                                                                     |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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     |
| <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    |
| 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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|                                                                                                              |              |
|--------------------------------------------------------------------------------------------------------------|--------------|
| 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  |

### AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)

**Test Method:** With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

| Test Item(s)                                                              | CAS No.  | Unit(s) | MDL | A11 |
|---------------------------------------------------------------------------|----------|---------|-----|-----|
| Benzo(a)pyrene(BaP)                                                       | 50-32-8  | mg/kg   | 0.1 | ND  |
| Benzo(e)pyrene(BeP)                                                       | 192-97-2 | mg/kg   | 0.1 | ND  |
| Benzo(a)anthracene(BaA)                                                   | 56-55-3  | mg/kg   | 0.1 | ND  |
| Benzo(b)Fluoranthene(BbF)                                                 | 205-99-2 | mg/kg   | 0.1 | ND  |
| Benzo(j)fluoranthene(BjF)                                                 | 205-82-3 | mg/kg   | 0.1 | ND  |
| Benzo(k)Fluoranthene(BkF)                                                 | 207-08-9 | mg/kg   | 0.1 | ND  |
| Chrysene(CHR)                                                             | 218-01-9 | mg/kg   | 0.1 | ND  |
| Dibenzo(a,h)Anthracene(DBA)                                               | 53-70-3  | mg/kg   | 0.1 | ND  |
| Benzo(g,h,i)perylene(BPE)                                                 | 191-24-2 | mg/kg   | 0.1 | ND  |
| Indeno(1,2,3-c,d)pyrene(IPY)                                              | 193-39-5 | mg/kg   | 0.1 | ND  |
| Phenanthrene(PHE)                                                         | 85-01-8  | mg/kg   | 0.1 | ND  |
| Pyrene(PYR)                                                               | 129-00-0 | mg/kg   | 0.1 | 0.4 |
| Anthracene(ANT)                                                           | 120-12-7 | mg/kg   | 0.1 | ND  |
| Fluoranthene(FLT)                                                         | 206-44-0 | mg/kg   | 0.1 | ND  |
| Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT) | -        | mg/kg   | -   | 0.4 |
| Naphthalene(NAP)                                                          | 91-20-3  | mg/kg   | 0.1 | ND  |
| Sum of 15 PAHs                                                            | -        | mg/kg   | -   | 0.4 |
| Material Category                                                         | -        | -       | -   | -   |

### Notes:

**AfPS (German commission for Product Safety) : PAHs requirements**

| Parameter | Category 1 | Category 2 | Category 3 |
|-----------|------------|------------|------------|
|-----------|------------|------------|------------|



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|                                                                               | Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use<br>-in toys according to Directive 2009/48/EC or<br>-for the use by children <sup>a,b</sup> up to 3 years of age. | Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact <sup>c</sup> with skin during the intended or foreseeable use <sup>d</sup> . |                               | Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use. |                               |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|                                                                               |                                                                                                                                                                                                                                                              | a.<br>use by children                                                                                                                                                                            | b.<br>other consumer products | a.<br>use by children                                                                                                                                   | b.<br>other consumer products |
| Benzo(a)pyrene (BaP) mg/kg                                                    | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Benzo(e)pyrene (BeP) mg/kg                                                    | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Benzo(a)anthracene (BaA) mg/kg                                                | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Benzo(b)fluoranthene (BbF) mg/kg                                              | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Benzo(j)fluoranthene (BjF) mg/kg                                              | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Benzo(k)fluoranthene (BkF) mg/kg                                              | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Chrysene (CHR) mg/kg                                                          | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Dibenzo(a,h)anthracene (DBA) mg/kg                                            | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Benzo(g,h,i)perylene (BPE) mg/kg                                              | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Indeno(1,2,3-cd)pyrene (IPY) mg/kg                                            | < 0.2                                                                                                                                                                                                                                                        | < 0.2                                                                                                                                                                                            | < 0.5                         | < 0.5                                                                                                                                                   | < 1                           |
| Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg | < 1 Sum                                                                                                                                                                                                                                                      | < 5 Sum                                                                                                                                                                                          | < 10 Sum                      | < 20 Sum                                                                                                                                                | < 50 Sum                      |



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|                            |     |      |      |
|----------------------------|-----|------|------|
| Naphthalene (NAP)<br>mg/kg | < 1 | < 2  | < 10 |
| Sum of 15 PAHs             | <1  | < 5  | < 10 |
|                            |     | < 20 | < 50 |

### Notes:

<sup>a</sup> A "Child" is legally defined as a person before reaching the age of 14 years.

<sup>b</sup> Use by children includes both active and passive contact by children.

<sup>c</sup> Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)

<sup>d</sup> According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28)

"foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

### Remark:

The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

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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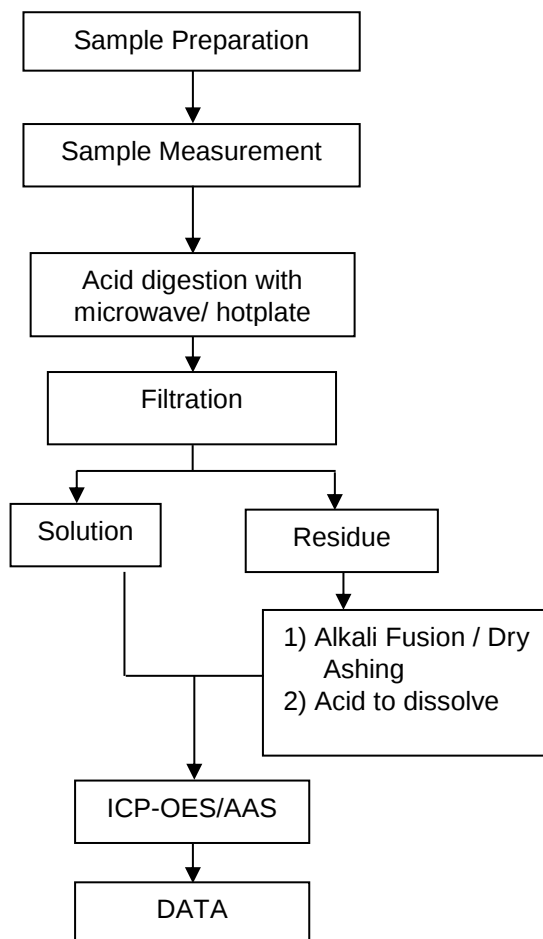
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#### Elements Testing Flow Chart

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

Name of the person in charge of testing: John Cheng

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



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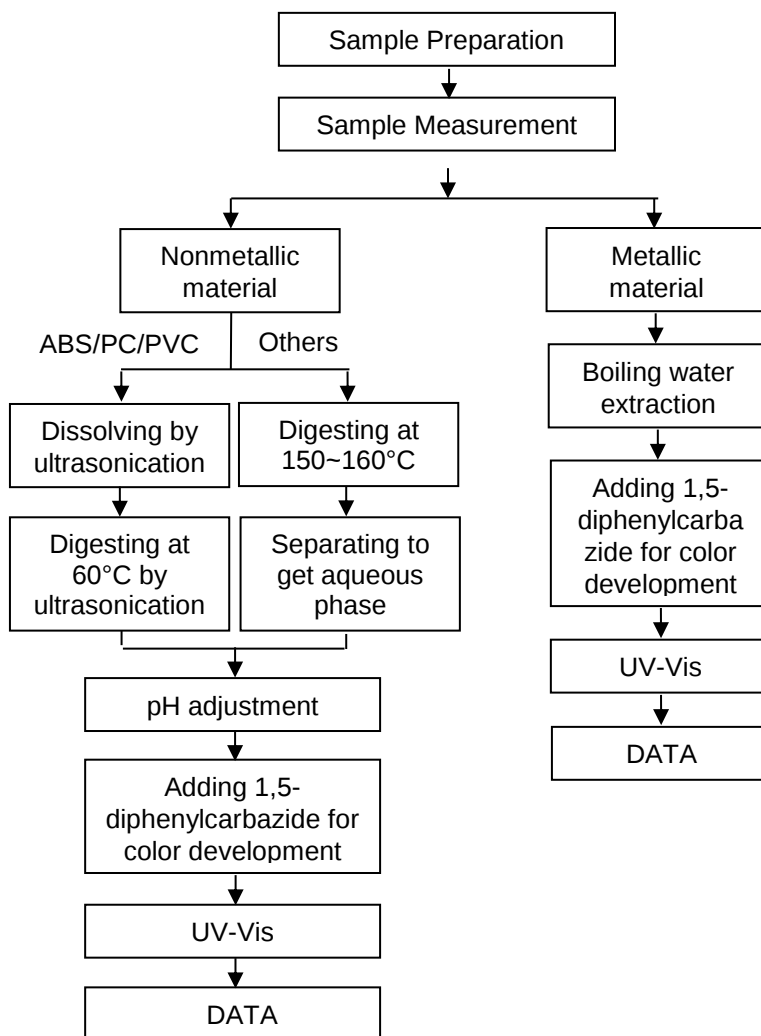
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### ATTACHMENTS

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

Name of the person who made testing: Alex Wang

Name of the person in charge of testing: Xiaolong Yang



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## Test Report

No.: SHAEC24024409511

Date: Nov 14, 2024

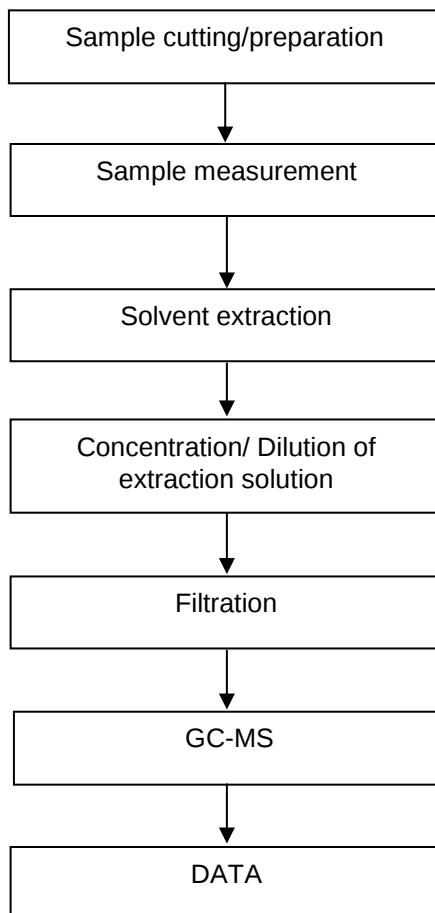
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### ATTACHMENTS

#### PBB/PBDE 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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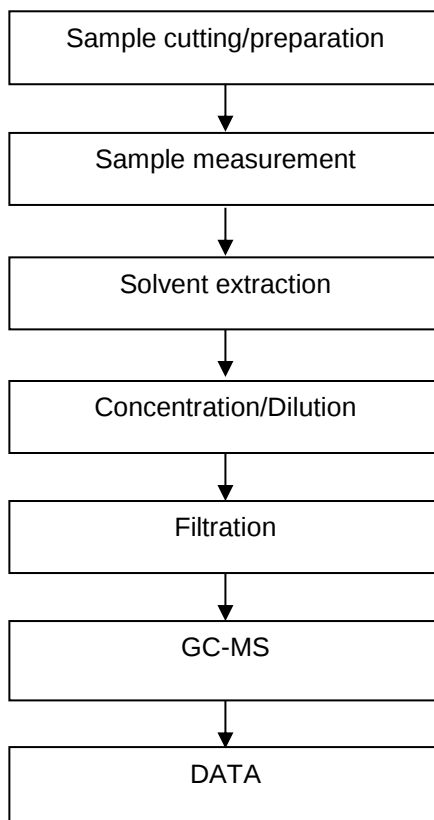
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### ATTACHMENTS

#### Phthalates Testing Flow Chart

Name of the person who made testing: Sherry Shi

Name of the person in charge of testing: Carol Cui



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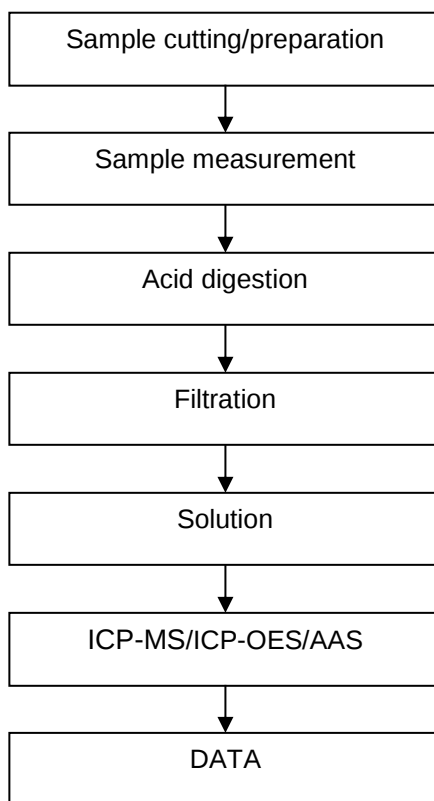
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## ATTACHMENTS

### Elements Testing Flow Chart

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

Name of the person in charge of testing: Carey Shan



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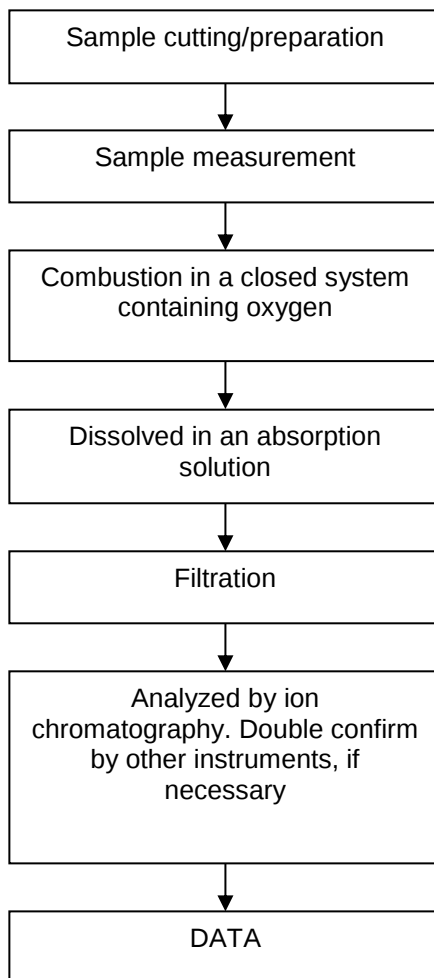
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### ATTACHMENTS

#### Halogen Testing Flow Chart

Name of the person who made testing: Andy Zhang

Name of the person in charge of testing: Gordon Mu



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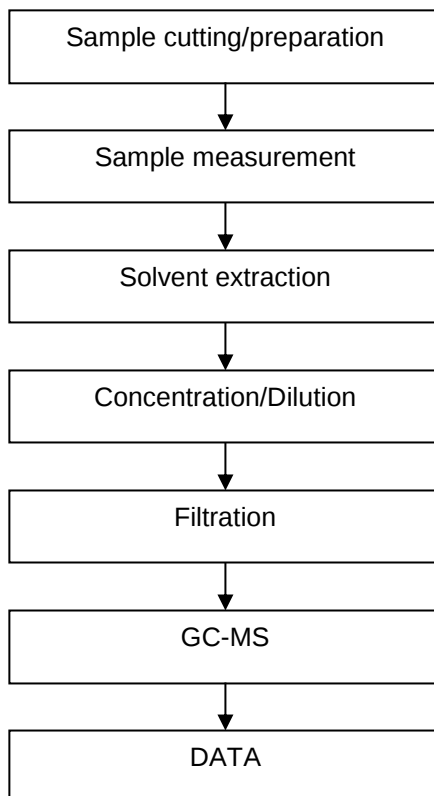
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#### HBCDD Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Carol Cui



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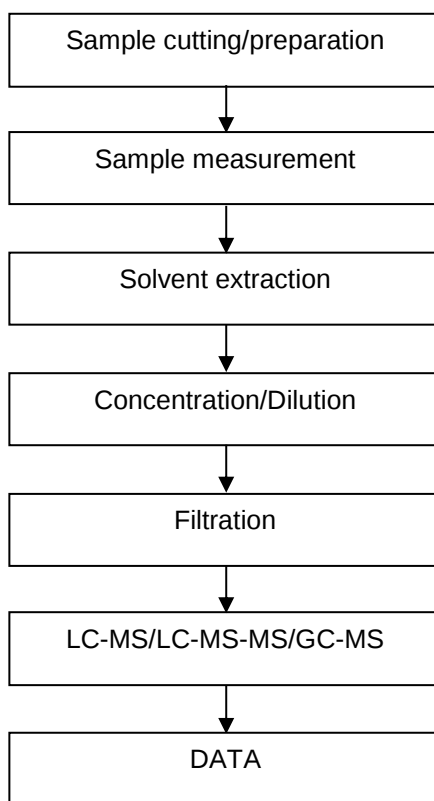
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### PFASs/ PFOS/PFOA Testing Flow Chart

Name of the person who made testing: Ance Chen

Name of the person in charge of testing: Liyas Wang



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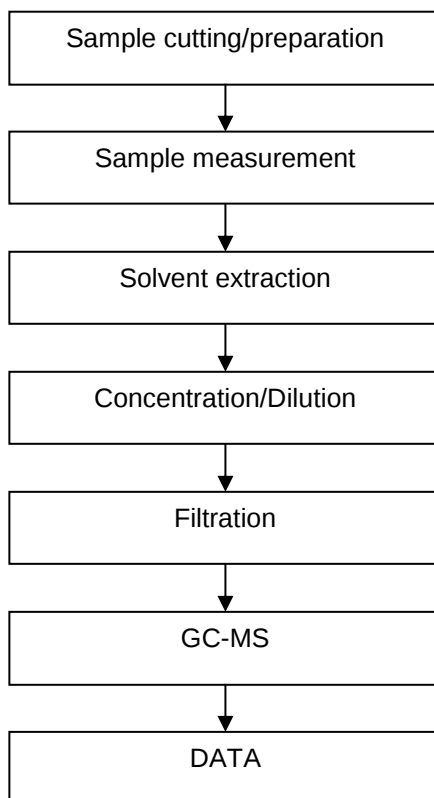
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#### PAHs Testing Flow Chart

Name of the person who made testing: Liyas Wang

Name of the person in charge of testing: Liyas Wang



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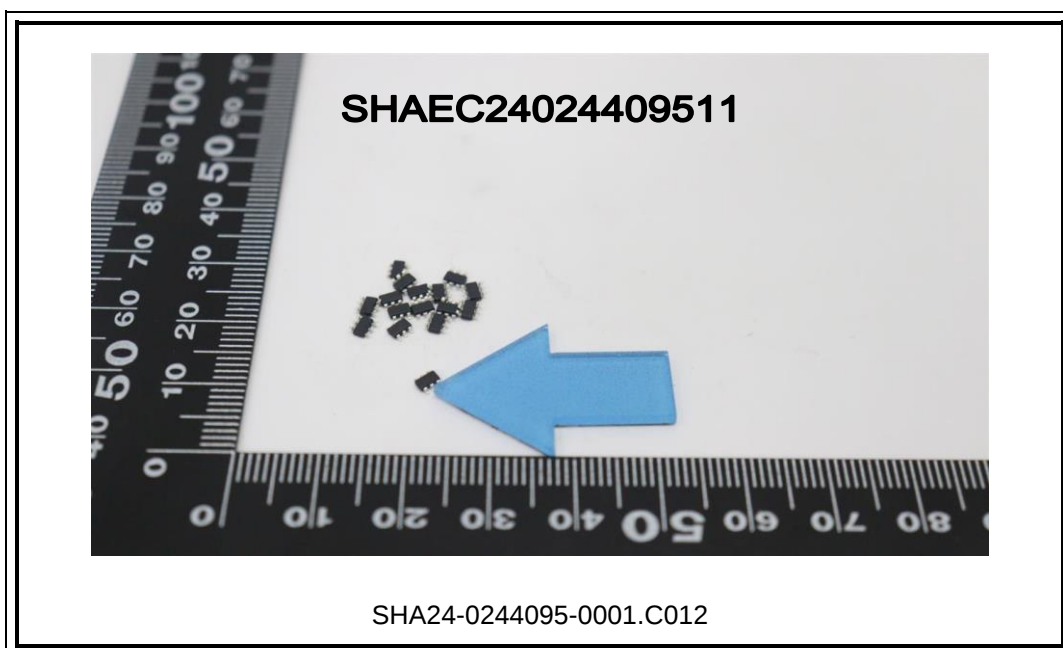
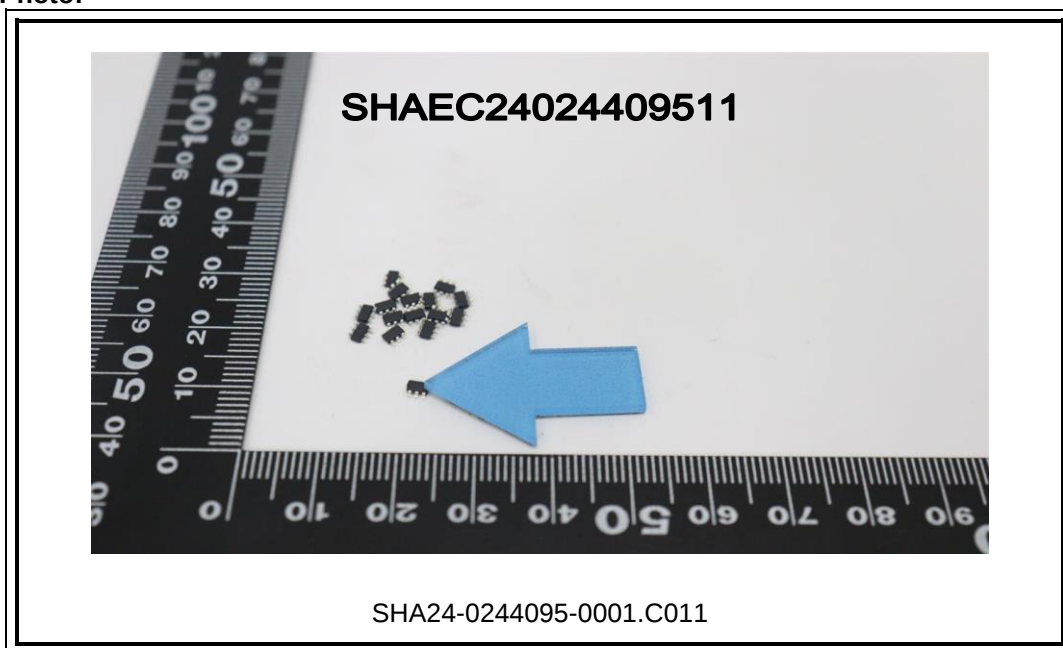
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