



# Test Report

No.: ETR25903573

Date: 26-Sep-2025

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HD MICROSYSTEMS  
250 CHEESEQUAKE ROAD-BLDG. 424, PARLIN, NJ 08859-1241

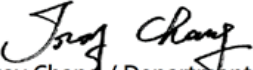
The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By : HD MICROSYSTEMS  
Sample Name : POLYIMIDE PRECURSOR  
Style/Item No. : HD4100

=====  
Sample Receiving Date : 19-Sep-2025  
Testing Period : 19-Sep-2025 to 25-Sep-2025

**Test Requested** : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).  
(2) As specified by client, to test PAHs and other item(s).

**Test Results** : Please refer to following pages.

  
Troy Chang / Department Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



PIN CODE: AB3442C3

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## Test Part Description

No.1 : TRANSPARENT BROWN GLUE

## Test Result(s)

| Test Item(s)               | Method   | Unit  | MDL  | Result |
|----------------------------|--|-------|------|--------|
|                            |  |       |      | No.1   |
| Cadmium (Cd)               | With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.            | mg/kg | 2    | n.d.   |
| Lead (Pb)                  | With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.            | mg/kg | 2    | n.d.   |
| Mercury (Hg)               | With reference to IEC 62321-4: 2013+AMD1: 2017, analysis was performed by ICP-OES. | mg/kg | 2    | n.d.   |
| Hexavalent Chromium Cr(VI) | With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.           | mg/kg | 8    | n.d.   |
| Monobromobiphenyl          | With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.              | mg/kg | 5    | n.d.   |
| Dibromobiphenyl            |  | mg/kg | 5    | n.d.   |
| Tribromobiphenyl           |  | mg/kg | 5    | n.d.   |
| Tetrabromobiphenyl         |  | mg/kg | 5    | n.d.   |
| Pentabromobiphenyl         |  | mg/kg | 5    | n.d.   |
| Hexabromobiphenyl          |  | mg/kg | 5    | n.d.   |
| Heptabromobiphenyl         |  | mg/kg | 5    | n.d.   |
| Octabromobiphenyl          |  | mg/kg | 5    | n.d.   |
| Nonabromobiphenyl          |  | mg/kg | 5    | n.d.   |
| Decabromobiphenyl          |  | mg/kg | 5    | n.d.   |
| <b>Sum of PBBs</b>         |  | mg/kg | -    | n.d.   |
| Monobromodiphenyl ether    |  | mg/kg | 5    | n.d.   |
| Dibromodiphenyl ether      |  | mg/kg | 5    | n.d.   |
| Tribromodiphenyl ether     |  | mg/kg | 5    | n.d.   |
| Tetrabromodiphenyl ether   |  | mg/kg | 5    | n.d.   |
| Pentabromodiphenyl ether   |  | mg/kg | 5    | n.d.   |
| Hexabromodiphenyl ether    |  | mg/kg | 5    | n.d.   |
| Heptabromodiphenyl ether   |  | mg/kg | 5    | n.d.   |
| Octabromodiphenyl ether    |  | mg/kg | 5    | n.d.   |
| Nonabromodiphenyl ether    | mg/kg  | 5     | n.d. |        |
| Decabromodiphenyl ether    | mg/kg  | 5     | n.d. |        |
| <b>Sum of PBDEs</b>        | mg/kg  | -     | n.d. |        |

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| Test Item(s)   | Method  | Unit  | MDL  | Result   |
|--|---|-------|------|----------|
|  |   |       |      | No.1     |
| Butyl benzyl phthalate (BBP)   | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.               | mg/kg | 50   | n.d.     |
| Dibutyl phthalate (DBP)  |   | mg/kg | 50   | n.d.     |
| Di-(2-ethylhexyl) phthalate (DEHP)   |   | mg/kg | 50   | n.d.     |
| Diisobutyl phthalate (DIBP)  |   | mg/kg | 50   | n.d.     |
| Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)                                    |   | mg/kg | 50   | n.d.     |
| Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)                                    |   | mg/kg | 50   | n.d.     |
| Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)  |   | mg/kg | 50   | n.d.     |
| Di-n-pentyl phthalate (DNPP) (CAS No.: 131-18-0)   |   | mg/kg | 50   | n.d.     |
| Di-n-hexyl phthalate (DNHP) (CAS No.: 84-75-3)   |   | mg/kg | 50   | n.d.     |
| Bis(2-methoxyethyl) phthalate (DMEP) (CAS No.: 117-82-8)   |   | mg/kg | 50   | n.d.     |
| Fluorine (F) (CAS No.: 14762-94-8)   | With reference to BS EN 14582: 2016, analysis was performed by IC.                  | mg/kg | 50   | 90.8     |
| Chlorine (Cl) (CAS No.: 22537-15-1)  |   | mg/kg | 50   | n.d.     |
| Bromine (Br) (CAS No.: 10097-32-2)   |   | mg/kg | 50   | n.d.     |
| Iodine (I) (CAS No.: 14362-44-8)   |   | mg/kg | 50   | n.d.     |
| <b>PFHxS and its salts</b>   |   |       |      |          |
| Perfluorohexane sulfonate and its salts (PFHxS and its salts) (CAS No.: 355-46-4 and its salts)  | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.   | mg/kg | 0.01 | n.d.     |
| Perfluorooctane sulfonates and its salts (PFOS and its salts) (CAS No.: 1763-23-1 and its salts) | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.   | mg/kg | 0.01 | n.d.     |
| Perfluorooctanoic acid and its salts (PFOA and its salts) (CAS No.: 335-67-1 and its salts)      | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.   | mg/kg | 0.01 | n.d.     |
| Bisphenol A (CAS No.: 80-05-7)   | With reference to RSTS-CHEM-239-1, analysis was performed by LC/MS/MS.              | mg/kg | 1    | n.d.     |
| Polyvinyl chloride (PVC)   | With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test. | **    | -    | Negative |

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| Test Item(s)   | Method  | Unit  | MDL | Result |
|--|---|-------|-----|--------|
|  |   |       |     | No.1   |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.                 | mg/kg | 20  | n.d.   |
| Polychlorinated biphenyls (PCBs)   | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.                | mg/kg | 0.5 | n.d.   |
| Polychlorinated naphthalene (PCNs)   | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.                | mg/kg | 5   | n.d.   |
| Polychlorinated terphenyls (PCTs)  | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.                | mg/kg | 0.5 | n.d.   |
| Short Chain Chlorinated Paraffins(C10-C13) (SCCP) (CAS No.: 85535-84-8)  | With reference to ISO 18219-1: 2021, analysis was performed by GC/MS.                 | mg/kg | 50  | n.d.   |
| <b>AZO Dyes</b>  |   |       |     |        |
| 4-aminobiphenyl (CAS No.: 92-67-1)   | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| Benzidine (CAS No.: 92-87-5)   | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| 4-chloro-o-toluidine (CAS No.: 95-69-2)  | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| 2-naphthylamine (CAS No.: 91-59-8)   | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| o-aminoazotoluene (CAS No.: 97-56-3)   | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| 5-nitro-o-toluidine (CAS No.: 99-55-8)   | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |

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| Test Item(s)  | Method  | Unit  | MDL | Result |
|---|---|-------|-----|--------|
|   |   |       |     | No.1   |
| 4-chloroaniline (CAS No.: 106-47-8)                           | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| 2,4-diaminoanisole (CAS No.: 615-05-4)                        | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| 4,4'-diaminodiphenylmethane (MDA) (CAS No.: 101-77-9)         | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| 3,3'-dichlorobenzidine (CAS No.: 91-94-1)                     | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| 3,3'-dimethoxybenzidine (CAS No.: 119-90-4)                   | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| 3,3'-dimethylbenzidine (CAS No.: 119-93-7)                    | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| 3,3'-dimethyl-4,4'-diaminodiphenylmethane (CAS No.: 838-88-0) | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| 2-methoxy-5-methylaniline (CAS No.: 120-71-8)                 | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| 4,4'-methylene-bis-(2-chloroaniline) (CAS No.: 101-14-4)      | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| 4,4'-oxydianiline (CAS No.: 101-80-4)                         | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| 4,4'-thiodianiline (CAS No.: 139-65-1)                        | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |
| o-toluidine (CAS No.: 95-53-4)                                | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD. | mg/kg | 3   | n.d.   |

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| Test Item(s)  | Method  | Unit  | MDL | Result   |
|---|---|-------|-----|----------|
|   |   |       |     | No.1     |
| 2,4-diaminotoluene (CAS No.: 95-80-7)                                     | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD.   | mg/kg | 3   | n.d.     |
| 2,4,5-trimethylaniline (CAS No.: 137-17-7)                                | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD.   | mg/kg | 3   | n.d.     |
| o-anisidine (CAS No.: 90-04-0)  | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD.   | mg/kg | 3   | n.d.     |
| 4-aminoazobenzene (CAS No.: 60-09-3)                                      | With reference to EN ISO 14362-1: 2017 or/and EN ISO 14362-3: 2017, analysis was performed by GC/MS & HPLC/DAD.   | mg/kg | 3   | n.d.     |
| 2,4-xylidine (CAS No.: 95-68-1)   | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD.   | mg/kg | 3   | n.d.     |
| 2,6-xylidine (CAS No.: 87-62-7)   | With reference to EN ISO 14362-1: 2017, analysis was performed by GC/MS and HPLC/DAD.   | mg/kg | 3   | n.d.     |
| Formaldehyde (CAS No.: 50-00-0)   | With reference to ISO 17226-1: 2021, analysis was performed by LC/DAD.  | mg/kg | 3   | n.d.     |
| <b>Asbestos</b>   |   |       |     |          |
| Actinolite (CAS No.: 77536-66-4)  | With reference to EPA 600/R-93/116: 1993, analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD). | -     | -   | Negative |
| Amosite (CAS No.: 12172-73-5)   |   | -     | -   | Negative |
| Anthophyllite (CAS No.: 77536-67-5)                                       |   | -     | -   | Negative |
| Chrysotile (CAS No.: 12001-29-5)  |   | -     | -   | Negative |
| Crocidolite (CAS No.: 12001-28-4)   |   | -     | -   | Negative |
| Tremolite (CAS No.: 77536-68-6)   |   | -     | -   | Negative |
| 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) (CAS No.: 3846-71-7) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.  | mg/kg | 5   | n.d.     |
| <b>Chlorofluorocarbons (CFCs)</b>   |   |       |     |          |
| CFC-13  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.     |
| CFC-111   |   | mg/kg | 1   | n.d.     |
| CFC-112   |   | mg/kg | 1   | n.d.     |

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| Test Item(s)                            | Method   | Unit  | MDL  | Result |
|---|--|-------|------|--------|
|   |  |       |      | No.1   |
| CFC-211                                 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1    | n.d.   |
| CFC-212                                 |  | mg/kg | 1    | n.d.   |
| CFC-213                                 |  | mg/kg | 1    | n.d.   |
| CFC-214                                 |  | mg/kg | 1    | n.d.   |
| CFC-215                                 |  | mg/kg | 1    | n.d.   |
| CFC-216                                 |  | mg/kg | 1    | n.d.   |
| CFC-217                                 |  | mg/kg | 1    | n.d.   |
| CFC-12                                  |  | mg/kg | 1    | n.d.   |
| CFC-11                                  |  | mg/kg | 1    | n.d.   |
| CFC-115                                 |  | mg/kg | 1    | n.d.   |
| CFC-114                                 |  | mg/kg | 1    | n.d.   |
| CFC-113                                 |  | mg/kg | 1    | n.d.   |
| <b>Hydrochlorofluorocarbons (HCFCs)</b> |  |       |      |        |
| HCFC-21                                 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1    | n.d.   |
| HCFC-22                                 |  | mg/kg | 1    | n.d.   |
| HCFC-31                                 |  | mg/kg | 1    | n.d.   |
| HCFC-121                                |  | mg/kg | 1    | n.d.   |
| HCFC-122                                |  | mg/kg | 1    | n.d.   |
| HCFC-123                                |  | mg/kg | 1    | n.d.   |
| HCFC-124                                |  | mg/kg | 1    | n.d.   |
| HCFC-131                                |  | mg/kg | 1    | n.d.   |
| HCFC-142b                               |  | mg/kg | 1    | n.d.   |
| HCFC-221                                |  | mg/kg | 1    | n.d.   |
| HCFC-222                                |  | mg/kg | 1    | n.d.   |
| HCFC-223                                |  | mg/kg | 1    | n.d.   |
| HCFC-224                                |  | mg/kg | 1    | n.d.   |
| HCFC-225ca                              |  | mg/kg | 1    | n.d.   |
| HCFC-225cb                              |  | mg/kg | 1    | n.d.   |
| HCFC-226                                |  | mg/kg | 1    | n.d.   |
| HCFC-231                                |  | mg/kg | 1    | n.d.   |
| HCFC-232                                |  | mg/kg | 1    | n.d.   |
| HCFC-233                                |  | mg/kg | 1    | n.d.   |
| HCFC-234                                | mg/kg  | 1     | n.d. |        |
| HCFC-235                                | mg/kg  | 1     | n.d. |        |
| HCFC-241                                | mg/kg  | 1     | n.d. |        |

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| Test Item(s)                           | Method   | Unit  | MDL | Result |
|--|--|-------|-----|--------|
|  |  |       |     | No.1   |
| HCFC-242                               | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-244                               |  | mg/kg | 1   | n.d.   |
| HCFC-251                               |  | mg/kg | 1   | n.d.   |
| HCFC-252                               |  | mg/kg | 1   | n.d.   |
| HCFC-261                               |  | mg/kg | 1   | n.d.   |
| HCFC-262                               |  | mg/kg | 1   | n.d.   |
| HCFC-271                               |  | mg/kg | 1   | n.d.   |
| HCFC-141b                              |  | mg/kg | 1   | n.d.   |
| HCFC-243                               |  | mg/kg | 1   | n.d.   |
| HCFC-253                               |  | mg/kg | 1   | n.d.   |
| HCFC-141                               |  | mg/kg | 1   | n.d.   |
| HCFC-142                               |  | mg/kg | 1   | n.d.   |
| HCFC-151                               |  | mg/kg | 1   | n.d.   |
| HCFC-225                               |  | mg/kg | 1   | n.d.   |
| HCFC-133                               |  | mg/kg | 1   | n.d.   |
| HCFC-132                               |  | mg/kg | 1   | n.d.   |
| <b>Halons</b>                          |  |       |     |        |
| Halon-1211 (CAS No.: 353-59-3)         | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| Halon-1301 (CAS No.: 75-63-8)          |  | mg/kg | 1   | n.d.   |
| Halon-2402 (CAS No.: 124-73-2)         |  | mg/kg | 1   | n.d.   |
| Halon-1202 (CAS No.: 75-61-6)          |  | mg/kg | 1   | n.d.   |
| Methyl Bromide (CAS No.: 74-83-9)      | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| <b>Hydrobromofluorocarbons (HBFCs)</b> |  |       |     |        |
| HBFC-271B1                             | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-262B1                             |  | mg/kg | 1   | n.d.   |
| HBFC-261B2                             |  | mg/kg | 1   | n.d.   |
| HBFC-253B1                             |  | mg/kg | 1   | n.d.   |
| HBFC-252B2                             |  | mg/kg | 1   | n.d.   |
| HBFC-244B1                             |  | mg/kg | 1   | n.d.   |
| HBFC-243B2                             |  | mg/kg | 1   | n.d.   |
| HBFC-242B3                             |  | mg/kg | 1   | n.d.   |
| HBFC-241B4                             |  | mg/kg | 1   | n.d.   |
| HBFC-235B1                             |  | mg/kg | 1   | n.d.   |
| HBFC-234B2                             |  | mg/kg | 1   | n.d.   |

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250 CHEESEQUAKE ROAD-BLDG. 424, PARLIN, NJ 08859-1241

| Test Item(s)                               | Method   | Unit  | MDL  | Result |
|--|--|-------|------|--------|
|  |  |       |      | No.1   |
| HBFC-233B3                                 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1    | n.d.   |
| HBFC-232B4                                 |  | mg/kg | 1    | n.d.   |
| HBFC-231B5                                 |  | mg/kg | 1    | n.d.   |
| HBFC-226B1                                 |  | mg/kg | 1    | n.d.   |
| HBFC-225B2                                 |  | mg/kg | 1    | n.d.   |
| HBFC-224B3                                 |  | mg/kg | 1    | n.d.   |
| HBFC-223B4                                 |  | mg/kg | 1    | n.d.   |
| HBFC-222B5                                 |  | mg/kg | 1    | n.d.   |
| HBFC-221B6                                 |  | mg/kg | 1    | n.d.   |
| HBFC-151B1                                 |  | mg/kg | 1    | n.d.   |
| HBFC-142B1                                 |  | mg/kg | 1    | n.d.   |
| HBFC-141B2                                 |  | mg/kg | 1    | n.d.   |
| HBFC-133B1                                 |  | mg/kg | 1    | n.d.   |
| HBFC-132B2                                 |  | mg/kg | 1    | n.d.   |
| HBFC-131B3                                 |  | mg/kg | 1    | n.d.   |
| HBFC-124B1                                 |  | mg/kg | 1    | n.d.   |
| HBFC-123B2                                 |  | mg/kg | 1    | n.d.   |
| HBFC-122B3                                 |  | mg/kg | 1    | n.d.   |
| HBFC-121B4                                 |  | mg/kg | 1    | n.d.   |
| HBFC-31B1                                  |  | mg/kg | 1    | n.d.   |
| HBFC-22B1                                  |  | mg/kg | 1    | n.d.   |
| HBFC-21B2                                  | mg/kg  | 1     | n.d. |        |
| HBFC-251B1                                 | mg/kg  | 1     | n.d. |        |
| <b>Chlorinate hydrocarbon (CHCs)</b>       |  |       |      |        |
| 1,1-Dichloropropene (CAS No.: 563-58-6)    | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1    | n.d.   |
| 1,2-Dichloroethane (CAS No.: 107-06-2)     |  | mg/kg | 1    | n.d.   |
| 2,2-Dichloropropane (CAS No.: 594-20-7)    |  | mg/kg | 1    | n.d.   |
| Carbon tetrachloride (CAS No.: 56-23-5)    |  | mg/kg | 1    | n.d.   |
| Chloromethane (CAS No.: 74-87-3)           |  | mg/kg | 1    | n.d.   |
| cis-1,2-Dichloroethene (CAS No.: 156-59-2) |  | mg/kg | 1    | n.d.   |

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| Test Item(s)                                    | Method   | Unit   | MDL   | Result |      |
|---|--|--|-------|--------|------|
|   |  |  |       | No.1   |      |
| cis-1,3-Dichloropropene (CAS No.: 10061-01-5)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg  | 1     | n.d.   |      |
| Hexachlorobutadiene (CAS No.: 87-68-3)          |  | mg/kg  | 1     | n.d.   |      |
| trans-1,2-Dichloroethene (CAS No.: 156-60-5)    |  | mg/kg  | 1     | n.d.   |      |
| trans-1,3-Dichloropropene (CAS No.: 10061-02-6) |  | mg/kg  | 1     | n.d.   |      |
| Dichloromethane (CAS No.: 75-09-2)              |  | mg/kg  | 1     | n.d.   |      |
| 1,2-Dichloropropane (CAS No.: 78-87-5)          |  | mg/kg  | 1     | n.d.   |      |
| 1,1,1,2-Tetrachloroethane (CAS No.: 630-20-6)   |  | mg/kg  | 1     | n.d.   |      |
| 1,1,1-Trichloroethane (CAS No.: 71-55-6)        |  | mg/kg  | 1     | n.d.   |      |
| 1,1,2-Trichloroethane (CAS No.: 79-00-5)        |  | mg/kg  | 1     | n.d.   |      |
| 1,1,2,2-Tetrachloroethane (CAS No.: 79-34-5)    |  | mg/kg  | 1     | n.d.   |      |
| 1,1-Dichloroethylene (CAS No.: 75-35-4)         |  | mg/kg  | 1     | n.d.   |      |
| 1,1-Dichloroethane (CAS No.: 75-34-3)           |  | mg/kg  | 1     | n.d.   |      |
| Chloroethane (CAS No.: 75-00-3)                 |  | mg/kg  | 1     | n.d.   |      |
| Tetrachloroethene (CAS No.: 127-18-4)           |  | mg/kg  | 1     | n.d.   |      |
| Trichloroethylene (CAS No.: 79-01-6)            |  | mg/kg  | 1     | n.d.   |      |
| 1,3-Dichloropropane (CAS No.: 142-28-9)         |  | mg/kg  | 1     | n.d.   |      |
| Chloroform (CAS No.: 67-66-3)                   |  | mg/kg  | 1     | n.d.   |      |
| 1,2,3-Trichloropropane (CAS No.: 96-18-4)       |  | mg/kg  | 1     | n.d.   |      |
| <b>Hydrofluorocarbon (HFCs)</b>                 |  |  |       |        |      |
| HFC-23  |  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1      | n.d. |
| HFC-32  | mg/kg  |  | 1     | n.d.   |      |
| HFC-41  | mg/kg  |  | 1     | n.d.   |      |

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| Test Item(s)                                     | Method   | Unit  | MDL   | Result |
|--|--|-------|-------|--------|
|  |  |       |       | No.1   |
| HFC-43-10mee                                     | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1     | n.d.   |
| HFC-125  |  | mg/kg | 1     | n.d.   |
| HFC-134  |  | mg/kg | 1     | n.d.   |
| HFC-134a   |  | mg/kg | 1     | n.d.   |
| HFC-143  |  | mg/kg | 1     | n.d.   |
| HFC-143a   |  | mg/kg | 1     | n.d.   |
| HFC-152a   |  | mg/kg | 1     | n.d.   |
| HFC-227ea  |  | mg/kg | 1     | n.d.   |
| HFC-236fa  |  | mg/kg | 1     | n.d.   |
| HFC-245ca  |  | mg/kg | 1     | n.d.   |
| HFC-245fa  |  | mg/kg | 1     | n.d.   |
| HFC-365mfc                                       |  | mg/kg | 1     | n.d.   |
| HFC-236ea  |  | mg/kg | 1     | n.d.   |
| HFC-236cb  |  | mg/kg | 1     | n.d.   |
| HFC-161  |  | mg/kg | 1     | n.d.   |
| HFC-152  |  | mg/kg | 1     | n.d.   |
| <b>Perfluorocarbon (PFCs)</b>                    |  |       |       |        |
| 2-Perfluoromethylpentane (CAS No.: 355-04-4)     | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1     | n.d.   |
| Decafluorobutane (CAS No.: 355-25-9)             |  | mg/kg | 1     | n.d.   |
| Freon-14 (CAS No.: 75-73-0)                      |  | mg/kg | 1     | n.d.   |
| Fluorocarbon 116 (CAS No.: 76-16-4)              |  | mg/kg | 1     | n.d.   |
| Freon 218 (CAS No.: 76-19-7)                     |  | mg/kg | 1     | n.d.   |
| Freon C318 (CAS No.: 115-25-3)                   |  | mg/kg | 1     | n.d.   |
| Perfluorohexane (CAS No.: 355-42-0)              |  | mg/kg | 1     | n.d.   |
| Perfluoro-n-pentane (CAS No.: 678-26-2)          |  | mg/kg | 1     | n.d.   |
| Perfluorodecalin (CAS No.: 306-94-5)             |  | mg/kg | 1     | n.d.   |
| Triphenyl tin (TPT)                              | With reference to ISO 17353: 2004, analysis was performed by GC/FPD.   | mg/kg | 0.03  | n.d.   |
| Tributyl tin (TBT)                               |  | mg/kg | 0.03  | n.d.   |
| Dioctyl tin (DOT)                                |  | mg/kg | 0.03  | n.d.   |
| Dibutyl tin (DBT)                                |  | mg/kg | 0.03  | n.d.   |
| Bis(tributyltin) oxide (TBTO) (CAS No.: 56-35-9) | Calculated from the result of Tributyl Tin (TBT).                      | mg/kg | 0.03▲ | n.d.   |

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| Test Item(s)                                   | Method   | Unit  | MDL  | Result |
|--|--|-------|------|--------|
|  |  |       |      | No.1   |
| Benzene (CAS No.: 71-43-2)                     | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.       | mg/kg | 1    | n.d.   |
| Toluene (CAS No.: 108-88-3)                    | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.       | mg/kg | 1    | 2.24   |
| Phosphine (CAS No.: 7803-51-2)                 | Analysis was performed by gas detector tube. (Test Condition: 40°C, 30 mins) | ppmV  | 0.08 | n.d.   |
| <b>Polycyclic Aromatic Hydrocarbons (PAHs)</b> |  |       |      |        |
| Benzo[a]pyrene (CAS No.: 50-32-8)              | With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.      | mg/kg | 0.2  | n.d.   |
| Benzo[e]pyrene (CAS No.: 192-97-2)             |  | mg/kg | 0.2  | n.d.   |
| Benzo[a]anthracene (CAS No.: 56-55-3)          |  | mg/kg | 0.2  | n.d.   |
| Benzo[b]fluoranthene (CAS No.: 205-99-2)       |  | mg/kg | 0.2  | n.d.   |
| Benzo[j]fluoranthene (CAS No.: 205-82-3)       |  | mg/kg | 0.2  | n.d.   |
| Benzo[k]fluoranthene (CAS No.: 207-08-9)       |  | mg/kg | 0.2  | n.d.   |
| Chrysene (CAS No.: 218-01-9)                   |  | mg/kg | 0.2  | n.d.   |
| Dibenzo[a,h]anthracene (CAS No.: 53-70-3)      |  | mg/kg | 0.2  | n.d.   |
| Benzo[g,h,i]perylene (CAS No.: 191-24-2)       |  | mg/kg | 0.2  | n.d.   |
| Indeno[1,2,3-c,d]pyrene (CAS No.: 193-39-5)    |  | mg/kg | 0.2  | n.d.   |
| Anthracene (CAS No.: 120-12-7)                 |  | mg/kg | 0.2  | n.d.   |
| Fluoranthene (CAS No.: 206-44-0)               |  | mg/kg | 0.2  | n.d.   |
| Phenanthrene (CAS No.: 85-01-8)                |  | mg/kg | 0.2  | n.d.   |
| Pyrene (CAS No.: 129-00-0)                     |  | mg/kg | 0.2  | n.d.   |
| Naphthalene (CAS No.: 91-20-3)                 |  | mg/kg | 0.2  | n.d.   |
| <b>Sum of 15 PAHs</b>                          | mg/kg  | -     | n.d. |        |

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| Test Item(s)   | Method   | Unit  | MDL | Result |
|--|--|-------|-----|--------|
|  |  |       |     | No.1   |
| Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)                                   | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5   | n.d.   |
| Tris(1,3-dichloro-2-propyl) phosphate (CAS No.: 13674-87-8)                                | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5   | n.d.   |
| Tris(1-chloro-2-propyl) phosphate (TCPP) (CAS No.: 13674-84-5)                             | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5   | n.d.   |
| Triphenyl phosphate (CAS No.: 115-86-6)  | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5   | n.d.   |
| Trixylyl phosphate (CAS No.: 25155-23-1)   | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 25  | n.d.   |
| 2,2-Bis(chloromethyl) trimethylene bis(bis(2-chloroethyl) phosphate) (CAS No.: 38051-10-4) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 25  | n.d.   |
| Tris(4-tert-butylphenyl) phosphate (CAS No.: 78-33-1, 28777-70-0)                          | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5   | n.d.   |
| 4-(tert-butyl) phenyl diphenyl phosphate (CAS No.: 56803-37-3)                             | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5   | n.d.   |
| Bis(tert-butylphenyl) phenyl phosphate (DBPP) (CAS No.: 65652-41-7)                        | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5   | n.d.   |
| Tributyl phosphate (TBP) (CAS No.: 126-73-8)   | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5   | n.d.   |
| Trimethyl phosphate (CAS No.: 512-56-1)  | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5   | n.d.   |
| Tris-(1-aziridiny) phosphine oxide (CAS No.: 545-55-1)                                     | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5   | n.d.   |
| Tricresyl phosphate and isomers (CAS No.: 1330-78-5)                                       | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5   | n.d.   |
| Tri-o-tolylphosphate (CAS No.: 78-30-8)  | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5   | n.d.   |
| Tris(2-ethylhexyl) phosphate (CAS No.: 78-42-2)  | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5   | n.d.   |
| Tris(2,3-dichloropropyl) phosphate (CAS No.: 78-43-3)                                      | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. | mg/kg | 5   | n.d.   |

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| Test Item(s)   | Method  | Unit    | MDL  | Result |
|--|---|---------|------|--------|
|  |   |         |      | No.1   |
| Triethyl phosphate (CAS No.: 78-40-0)  | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.                      | mg/kg   | 5    | n.d.   |
| Tri-m-tolyphosphate (CAS No.: 563-04-2)  | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.                      | mg/kg   | 5    | n.d.   |
| Tri-p-tolyphosphate (CAS No.: 78-32-0)   | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.                      | mg/kg   | 5    | n.d.   |
| Tris(2-butoxyethyl) phosphate (CAS No.: 78-51-3)   | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.                      | mg/kg   | 5    | n.d.   |
| Antimony (Sb) (CAS No.: 7440-36-0)   | With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.                     | mg/kg   | 2    | n.d.   |
| Sulfur(S) (CAS No.: 7704-34-9)   | Analysis was performed by Element Analyzer.   | % (w/w) | 0.1  | n.d.   |
| Arsenic (As) (CAS No.: 7440-38-2)  | With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.                     | mg/kg   | 2    | n.d.   |
| Beryllium (Be) (CAS No.: 7440-41-7)  | With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.                     | mg/kg   | 2    | n.d.   |
| Cobalt (Co) (CAS No.: 7440-48-4)   | With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.                     | mg/kg   | 2    | n.d.   |
| Cobalt dichloride (CoCl <sub>2</sub> ) (CAS No.: 7646-79-9)  | With reference to RSTS-EE-SVHC-007, analysis was performed by ICP-OES, IC.                  | mg/kg   | 50 ▲ | n.d.   |
| 1H,1H,2H,2H-Perfluorodecanesulfonic acid and its salts (8:2 FTS and its salts) (CAS No.: 39108-34-4 and its salts) | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.           | mg/kg   | 0.01 | n.d.   |
| 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) (CAS No.: 678-39-7)   | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS and LC/MS/MS. | mg/kg   | 0.1  | n.d.   |
| 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) (CAS No.: 27905-45-9)  | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.              | mg/kg   | 0.1  | n.d.   |
| 1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) (CAS No.: 1996-88-9)  | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.              | mg/kg   | 0.1  | n.d.   |

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250 CHEESEQUAKE ROAD-BLDG. 424, PARLIN, NJ 08859-1241

| Test Item(s)  | Method  | Unit  | MDL  | Result |
|---|---|-------|------|--------|
|   |   |       |      | No.1   |
| 2H,2H-Perfluorodecane acid and its salts (H2PFDA and its salts) (CAS No.: 27854-31-5 and its salts)               | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   |
| 1H,1H,2H,2H-Perfluorodecyl iodide (8_2 FTI) (CAS No.: 2043-53-0)  | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.    | mg/kg | 0.1  | n.d.   |
| 1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC2H5)3) (CAS No.: 101947-16-4)                               | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.    | mg/kg | 0.1  | n.d.   |
| 2H,2H,3H,3H-Perfluoroundecanoic Acid and its salts (4HPFUnA and its salts) (CAS No.: 34598-33-9 and its salts)    | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   |
| 1H,1H,2H-Heptadecafluoro-1-decene (PFDE) (CAS No.: 21652-58-4)  | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.    | mg/kg | 0.1  | n.d.   |
| Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate and its salts (8_2diPAP and its salts) (CAS No.: 678-41-1 and its salts) | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   |
| Perfluorononan-1-oic acid and its salts (PFNA and its salts) (CAS No.: 375-95-1 and its salts)                    | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   |
| Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA) (CAS No.: 172155-07-6)  | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   |
| Perfluorodecane acid and its salts (PFDA and its salts) (CAS No.: 335-76-2 and its salts)                         | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   |
| Perfluoroundecanoic acid and its salts (PFUnDA and its salts) (CAS No.: 2058-94-8 and its salts)                  | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   |

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| Test Item(s)  | Method  | Unit  | MDL  | Result |
|---|---|-------|------|--------|
|   |   |       |      | No.1   |
| Perfluorododecanoic acid and its salts (PFDoDA and its salts) (CAS No.: 307-55-1 and its salts)                         | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.           | mg/kg | 0.01 | n.d.   |
| Perfluorodecane sulfonate and its salts (PFDS and its salts) (CAS No.: 335-77-3 and its salts)                          | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.           | mg/kg | 0.01 | n.d.   |
| Pentacosfluorotridecanoic acid and its salts (PFTrDA and its salts) (CAS No.: 72629-94-8 and its salts)                 | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.           | mg/kg | 0.01 | n.d.   |
| Perfluorotetradecanoic acid and its salts (PFTDA and its salts) (CAS No.: 376-06-7 and its salts)                       | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.           | mg/kg | 0.01 | n.d.   |
| 1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2FTOH) (CAS No.: 865-86-1)  | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS and LC/MS/MS. | mg/kg | 0.1  | n.d.   |
| 1H,1H,2H,2H-Perfluorododecylacrylate (10:2FTA) (CAS No.: 17741-60-5)  | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.              | mg/kg | 0.1  | n.d.   |
| 1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) (CAS No.: 2144-54-9)  | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.              | mg/kg | 0.1  | n.d.   |
| 1H,1H,2H,2H-perfluorotetradecanol (12:2 FTOH) (CAS No.: 39239-77-5)   | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS and LC/MS/MS. | mg/kg | 0.1  | n.d.   |
| 1H,1H,2H,2H-Perfluorododecane sulfonic acid and its salts (10:2 FTS and its salts) (CAS No.: 120226-60-0 and its salts) | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS.           | mg/kg | 0.01 | n.d.   |
| 1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI) (CAS No.: 2043-54-1)   | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.              | mg/kg | 0.1  | n.d.   |
| 1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI) (CAS No.: 30046-31-2)   | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.              | mg/kg | 0.1  | n.d.   |

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250 CHEESEQUAKE ROAD-BLDG. 424, PARLIN, NJ 08859-1241

| Test Item(s)  | Method  | Unit  | MDL  | Result |
|---|---|-------|------|--------|
|   |   |       |      | No.1   |
| Perfluorononane sulfonic acid and its salts (PFNS and its salts) (CAS No.: 68259-12-1 and its salts)          | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   |
| Perfluoroundecane sulfonic acid and its salts (PFUnDS and its salts) (CAS No.: 749786-16-1 and its salts)     | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   |
| Perfluorododecane sulfonic acid and its salts (PFDoDS and its salts) (CAS No.: 79780-39-5 and its salts)      | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   |
| Perfluorotridecane sulfonic acid and its salts (PFTrDS and its salts) (CAS No.: 791563-89-8 and its salts)    | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   |
| 10:2 Fluortelomerphosphatediester and its salts (10:2 diPAP and its salts) (CAS No.: 1895-26-7 and its salts) | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.1  | n.d.   |
| Perfluorododecyl iodide (PFDoDI) (CAS No.: 307-60-8)  | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.    | mg/kg | 0.1  | n.d.   |
| Perfluorodecyl iodide (PFDI) (CAS No.: 423-62-1)  | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by GC/MS.    | mg/kg | 0.1  | n.d.   |
| Perfluoropentadecanoic acid and its salts (PFPeDA and its salts, C15) (CAS No.: 141074-63-7 and its salts)    | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.1  | n.d.   |
| Perfluorohexadecanoic acid and its salts (PFHxDA and its salts, C16) (CAS No.: 67905-19-5 and its salts)      | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   |
| Perfluorooctadecanoic acid and its salts (PFODA and its salts, C18) (CAS No.: 16517-11-6 and its salts)       | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   |

**Note :**

1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected ( Less than MDL)
4. "-" = Not Regulated

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5. \*\*= Qualitative analysis (No Unit)
6. Negative = Undetectable ; Positive = Detectable
7. Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".
8. ▲ : The MDL was evaluated for element / tested substance.

Conversion Formula :  $AX = A \times F$

| AX                           | A                  | F      |
|------------------------------|--------------------|--------|
| Bis(tributyltin)oxide (TBTO) | Tributyl Tin (TBT) | 1.0276 |

Parameter Conversion Table : [https://eecloud.sgs.com/Region\\_TW/DocDownload.aspx?name=Others](https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others)

9. ppmV = Part Per Million by Volume
10. Tedlar bag size / Sampling Volume :
 

|           |         |
|-----------|---------|
| Phosphine | 5L/0.5L |
|-----------|---------|
11. Gas detecting tube test can be interfered by certain substances especially; Phosphine - Arsine, etc.
12. 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. According to this rule, the judgement of conformity is based on the comparing test results with limits.

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250 CHEESEQUAKE ROAD-BLDG. 424, PARLIN, NJ 08859-1241

PAHs Remark :

Δ AfPS (German commission for Product Safety): GS PAHs requirements

| Parameter               | Category 1   | Category 2   |                            | Category 3  |                            |
|-------------------------|--|--|----------------------------|---|----------------------------|
|                         | Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3 years of age with intended long-term skin contact (> 30 seconds). | Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-term repetitive contact with the skin. |                            | Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact (≤30 seconds). |                            |
|                         |  | a. Use by children under 14  | b. Other consumer products | a. Use by children under 14   | b. Other consumer products |
| Naphthalene             | < 1  | < 2  |                            | < 10  |                            |
| Phenanthrene            | < 1 Sum  | < 5 Sum  | < 10 Sum                   | < 20 Sum  | < 50 Sum                   |
| Anthracene              |  |  |                            |   |                            |
| Fluoranthene            |  |  |                            |   |                            |
| Pyrene                  |  |  |                            |   |                            |
| Benzo[a]anthracene      | < 0.2  | < 0.2  | < 0.5                      | < 0.5   | < 1                        |
| Chrysene                | < 0.2  | < 0.2  | < 0.5                      | < 0.5   | < 1                        |
| Benzo[b]fluoranthene    | < 0.2  | < 0.2  | < 0.5                      | < 0.5   | < 1                        |
| Benzo[j]fluoranthene    | < 0.2  | < 0.2  | < 0.5                      | < 0.5   | < 1                        |
| Benzo[k]fluoranthene    | < 0.2  | < 0.2  | < 0.5                      | < 0.5   | < 1                        |
| Benzo[a]pyrene          | < 0.2  | < 0.2  | < 0.5                      | < 0.5   | < 1                        |
| Benzo[e]pyrene          | < 0.2  | < 0.2  | < 0.5                      | < 0.5   | < 1                        |
| Indeno[1,2,3-c,d]pyrene | < 0.2  | < 0.2  | < 0.5                      | < 0.5   | < 1                        |
| Dibenzo[a,h]anthracene  | < 0.2  | < 0.2  | < 0.5                      | < 0.5   | < 1                        |
| Benzo[g,h,i]perylene    | < 0.2  | < 0.2  | < 0.5                      | < 0.5   | < 1                        |
| Sum of 15 PAH           | < 1  | < 5  | < 10                       | < 20  | < 50                       |

Unit : mg/kg

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**PFAS Remark :**

The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.)

| Group Name                     | Substance Name   | CAS No.      |
|--------------------------------|--|--------------|
| PFHxS, its salts & derivatives | Perfluorohexane sulfonate (PFHxS)  | 355-46-4     |
|                                | Perfluorohexanesulfonate Na-salt (PFHxS-Na)  | 82382-12-5   |
|                                | Perfluorohexanesulfonate K-salt (PFHxS-K)  | 3871-99-6    |
|                                | Ammonium perfluorohexanesulfonate (PFHxS-NH <sub>4</sub> )   | 68259-08-5   |
|                                | Perfluorohexanesulfonate Li-salt (PFHxS-Li)  | 55120-77-9   |
|                                | Perfluorohexanesulfonate Zn-salt (PFHxS-Zn)  | 70136-72-0   |
|                                | Perfluorohexane sulphonyl fluoride (PFHxS-F)   | 423-50-7     |
|                                | Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)   | 1000597-52-3 |
|                                | N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate  | 108427-54-9  |
|                                | N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate (1:1)   | 108427-55-0  |
|                                | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1)   | 1187817-57-7 |
|                                | Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)     | 1310480-24-0 |
|                                | Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)  | 1310480-27-3 |
|                                | Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | 1310480-28-4 |
|                                | Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-) (1:1)   | 1329995-45-0 |
|                                | Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-) (1:1)  | 1329995-69-8 |
|                                | Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)   | 144116-10-9  |

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| Group Name   | Substance Name  | CAS No.      |
|--|---|--------------|
| PFHxS, its salts & derivatives   | Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) | 1462414-59-0 |
|  | Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)  | 153443-35-7  |
|  | Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1)  | 189274-31-5  |
|  | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1)  | 202189-84-2  |
|  | Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)  | 213740-81-9  |
|  | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9Cl)   | 341035-71-0  |
|  | Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)  | 341548-85-4  |
|  | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1) (PFHxS-Sc)   | 350836-93-0  |
|  | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1) (PFHxS-Nd)  | 41184-65-0   |
|  | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1) (PFHxS-Y)   | 41242-12-0   |
|  | Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)  | 421555-73-9  |
|  | Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid   | 421555-74-0  |
|  | Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)  | 425670-70-8  |
|  | Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)  | 70225-16-0   |
|  | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)  | 72033-41-1   |
|  | Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9Cl)  | 866621-50-3  |
|  | Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)   | 910606-39-2  |
|  | Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)  | 911027-68-4  |
| 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-CsH) | 92011-17-1  |              |

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250 CHEESEQUAKE ROAD-BLDG. 424, PARLIN, NJ 08859-1241

| Group Name                     | Substance Name  | CAS No.      |
|--------------------------------|---|--------------|
| PFHxS, its salts & derivatives | Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonate (1:1)  | 928049-42-7  |
|                                | Perfluorohexylsulfonyl chloride (PFHxS-Cl)  | 55591-23-6   |
|                                | Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 <sup>3,7</sup> ]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 <sup>3,7</sup> ]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate | 911027-69-5  |
|                                | Perfluorohexane sulfonate (anion)   | 108427-53-8  |
|                                | Tetrabutylphosphonium tridecafluorohexane-1-sulfonate (PFHxS-P (C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )  | 2310194-12-6 |
| PFOS, its salts & derivatives  | Perfluorooctane sulfonates (PFOS)   | 1763-23-1    |
|                                | Potassium perfluorooctanesulfonate (PFOS-K)   | 2795-39-3    |
|                                | Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)  | 29457-72-5   |
|                                | Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )   | 29081-56-9   |
|                                | Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(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-dimethyldecyl-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)  | 251099-16-8  |
|                                | TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )  | 111873-33-7  |
|                                | Perfluorooctane sulfonyl fluoride (POSF)  | 307-35-7     |
|                                | Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)  | 91036-71-4   |
|                                | Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)   | 4021-47-0    |
|                                | Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate   | 71463-74-6   |
|                                | Perfluorooctanesulfonate (anion)  | 45298-90-6   |
|                                | 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )   | 54439-46-2   |

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250 CHEESEQUAKE ROAD-BLDG. 424, PARLIN, NJ 08859-1241

| Group Name                    | Substance Name   | CAS No.      |
|-------------------------------|--|--------------|
| PFOS, its salts & derivatives | Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(CH <sub>3</sub> ) <sub>4</sub> )  | 56773-44-5   |
|                               | 1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C <sub>3</sub> H <sub>7</sub> ) <sub>3</sub> (C <sub>5</sub> H <sub>11</sub> )) | 56773-56-9   |
|                               | 1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (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]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)   | 213740-80-8  |
|                               | Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)   | 258341-99-0  |
|                               | Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)  | 334529-63-4  |
|                               | 1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)   | 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 perfluorooctanesulfonate (PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> )   | 1203998-97-3 |
|                               | 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, 1,1'-anhydride (PFOSAN)   | 423-92-7     |
|                               | Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)  | 423-60-9     |
| 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     |

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| Group Name                                 | Substance Name   | CAS No.      |
|--|--|--------------|
| PFOA, its salts & derivatives              | 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 <sup>+</sup> ))                                   | 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   |
|  | Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)  | 98241-25-9   |
|  | Tetramethylammoniumperfluorooctanoat   | 32609-65-7   |
|  | 1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)  | 277749-00-5  |
|  | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K(H <sub>2</sub> O) <sub>2</sub> )  | 98065-31-7   |
|  | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA-C <sub>2</sub> H <sub>7</sub> N)       | 1376936-03-6 |
|  | Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI) (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    |
|  | 1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) (PFOA- C <sub>11</sub> H <sub>26</sub> N) | 927835-01-6  |
| Pentadecafluorooctanoyl chloride (PFOA-Cl) | 335-64-8   |              |
| 8:2 FTS, its salts                         | 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)   | 39108-34-4   |
|  | 1H,1H,2H,2H-Perfluorodencane sulfonate acid Potassium salt (8:2 FTS-K)   | 438237-73-1  |
|  | 1H,1H,2H,2H-Perfluorodencane sulfonate acid Ammonium salt (8:2 FTS-NH <sub>4</sub> )   | 149724-40-3  |

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| Group Name                          | Substance Name   | CAS No.      |
|-------------------------------------|--|--------------|
| 8:2 FTS, its salts                  | 1H,1H,2H,2H-Perfluorododecane sulfonate acid Sodium salt (8:2 FTS-Na)  | 27619-96-1   |
|                                     | 8:2 Fluorotelomer sulfonate (anion) (8:2 FTS(anion))   | 481071-78-7  |
|                                     | 2-(Perfluorooctyl)ethanesulfonyl chloride (8:2 FTS-Cl)   | 27619-90-5   |
| H2PFDA, its salts                   | 2H,2H-Perfluorodecane acid (H2PFDA)  | 27854-31-5   |
|                                     | Tetrabutylphosphonium 2H,2H-Perfluorodecanoate   | 882489-14-7  |
| 4HPFUnA, its salts                  | 2H,2H,3H,3H-Perfluoroundecanoic Acid (4HPFUnA)   | 34598-33-9   |
|                                     | Potassium 2H,2H,3H,3H-Perfluoroundecanoate (4HPFUnA-K)   | 83310-58-1   |
|                                     | Lithium 3-(perfluorooctyl)propanoate (4HPFUnA-Li)  | 67304-23-8   |
| 8:2diPAP, its salts                 | Bis(1H,1H,2H,2H-Perfluorodecyl)phosphate (8:2diPAP)  | 678-41-1     |
|                                     | Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)  | 114519-85-6  |
|                                     | Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl)hydrogen phosphate   | 57677-97-1   |
|                                     | Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2diPAP-NH <sub>4</sub> )   | 93776-20-6   |
|                                     | 8:2 Fluorotelomer phosphate diester ion  | 1411713-91-1 |
| PFNA, its salts                     | Perfluorononanoic acid (PFNA)  | 375-95-1     |
|                                     | Perfluorononanoate Na-salt (PFNA-Na)   | 21049-39-8   |
|                                     | Perfluorononanoate ammonium salt (APFN)  | 4149-60-4    |
|                                     | Potassium perfluorononanoate (PFNA-K)  | 21049-38-7   |
|                                     | Perfluorononanoate Li-Salt (PFNA-Li)   | 60871-92-3   |
|                                     | Silver perfluorononanoate (PFNA-Ag)  | 7358-16-9    |
|                                     | Methanaminium perfluorononanoate (PFNA-NH <sub>3</sub> (CH <sub>3</sub> ))   | 77032-23-6   |
|                                     | Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluoro-, compd. with N-ethylethanamine (1:1)   | 77032-27-0   |
|                                     | Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluoro-, compd. with N-methylmethanamine (1:1)   | 77032-24-7   |
|                                     | Nonanoic acid, heptafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )                   | 327176-80-7  |
|                                     | Nonanoic acid, heptafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-NH <sub>2</sub> (C <sub>5</sub> H <sub>10</sub> ))                             | 95682-66-9   |
|                                     | Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluoro-, compd. with benzenamine (1:1) (PFNA-NH <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> )) | 95682-67-0   |
|                                     | Nonanoic acid, heptafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-NH <sub>3</sub> (C <sub>6</sub> H <sub>11</sub> ))                        | 328531-06-2  |
|                                     | Perfluorononanoate (anion)   | 72007-68-2   |
|                                     | 4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptafluorononanoate (PFNA-C <sub>11</sub> H <sub>12</sub> N <sub>4</sub> O <sub>3</sub> S)          | 298703-33-0  |
| Perfluorononanoic anhydride (PFNAA) | 228407-54-3  |              |

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| Group Name         | Substance Name  | CAS No.     |
|--------------------|---|-------------|
| PFNA, its salts    | Perfluorononanoyl chloride (PFNA-Cl)  | 52447-23-1  |
|                    | Perfluorononanoyl fluoride (PFNA-F)   | 558-95-2    |
| PFDA, its salts    | Perfluorodecane acid (PFDA)   | 335-76-2    |
|                    | Perfluorodecanoate Na-salt (PFDA-Na)  | 3830-45-3   |
|                    | Perfluorodecanoate ammonium salt (APFDA)  | 3108-42-7   |
|                    | Potassium perfluorodecanoate (PFDA-K*)  | 51604-85-4  |
|                    | Silver perfluorodecanoate (PFDA-Ag)   | 5784-82-7   |
|                    | Lithium perfluorodecanoate (PFDA-Li)  | 84743-32-8  |
|                    | Perfluorodecanoate (anion)  | 73829-36-4  |
|                    | Perfluorodecanoic anhydride (PFDA-A)  | 942199-24-8 |
|                    | Nonadecafluorodecanoyl chloride (PFDA-Cl)   | 307-38-0    |
|                    | Nonadecafluorodecanoyl Fluoride (PFDA-F)  | -           |
| PFUnDA, its salts  | Perfluoroundecanoic acid (PFUnDA)   | 2058-94-8   |
|                    | Ammonium perfluoroundecanoate (PFUnDA-NH <sub>4</sub> )                           | 4234-23-5   |
|                    | Perfluoroundecanoic acid sodium salt (PFUnDA-Na)                                  | 60871-96-7  |
|                    | Potassium perfluoroundecanoate (PFUnDA-K)   | 30377-53-8  |
|                    | Calcium perfluoroundecanoate (PFUnDA-Ca)  | 97163-17-2  |
|                    | Perfluoroundecanoate (anion)  | 196859-54-8 |
| PFDoDA, its salts  | Perfluorododecanoic acid (PFDoDA)   | 307-55-1    |
|                    | Ammonium perfluorododecanoate (APFDoDA)   | 3793-74-6   |
|                    | Perfluorododecanoate (anion)  | 171978-95-3 |
| PFDS, its salts    | Perfluorodecane sulfonate (PFDS)  | 335-77-3    |
|                    | Perfluorodecanesulfonate Na-salt (PFDS-Na)  | 2806-15-7   |
|                    | Perfluorodecanesulfonate K-salt (PFDS-K)  | 2806-16-8   |
|                    | Perfluoroaliphatic dean-sulfonate salt of NH <sub>4</sub> (PFDS-NH <sub>4</sub> ) | 67906-42-7  |
|                    | Perfluorodecane sulfonate (anion)   | 126105-34-8 |
|                    | Perfluorodecane sulfonic anhydride (PFDSA)  | 51667-62-0  |
|                    | Perfluorodecanesulphonyl fluoride (PFDS-F)  | 307-51-7    |
|                    | Perfluorodecanesulphonyl chloride (PFDS-Cl)                                       | 32779-61-6  |
| PFTTrDA, its salts | Pentacosfluorotridecanoic acid (PFTTrDA)  | 72629-94-8  |
|                    | Ammonium perfluorotridecanoate (PFTTrDA-NH <sub>4</sub> )                         | 4288-72-6   |
|                    | Sodium perfluorotridecanoate (PFTTrDA-Na)   | 60872-01-7  |
|                    | Perfluorotridecanoate (anion)   | 862374-87-6 |

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# Test Report

No.: ETR25903573

Date: 26-Sep-2025

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HD MICROSYSTEMS

250 CHEESEQUAKE ROAD-BLDG. 424, PARLIN, NJ 08859-1241

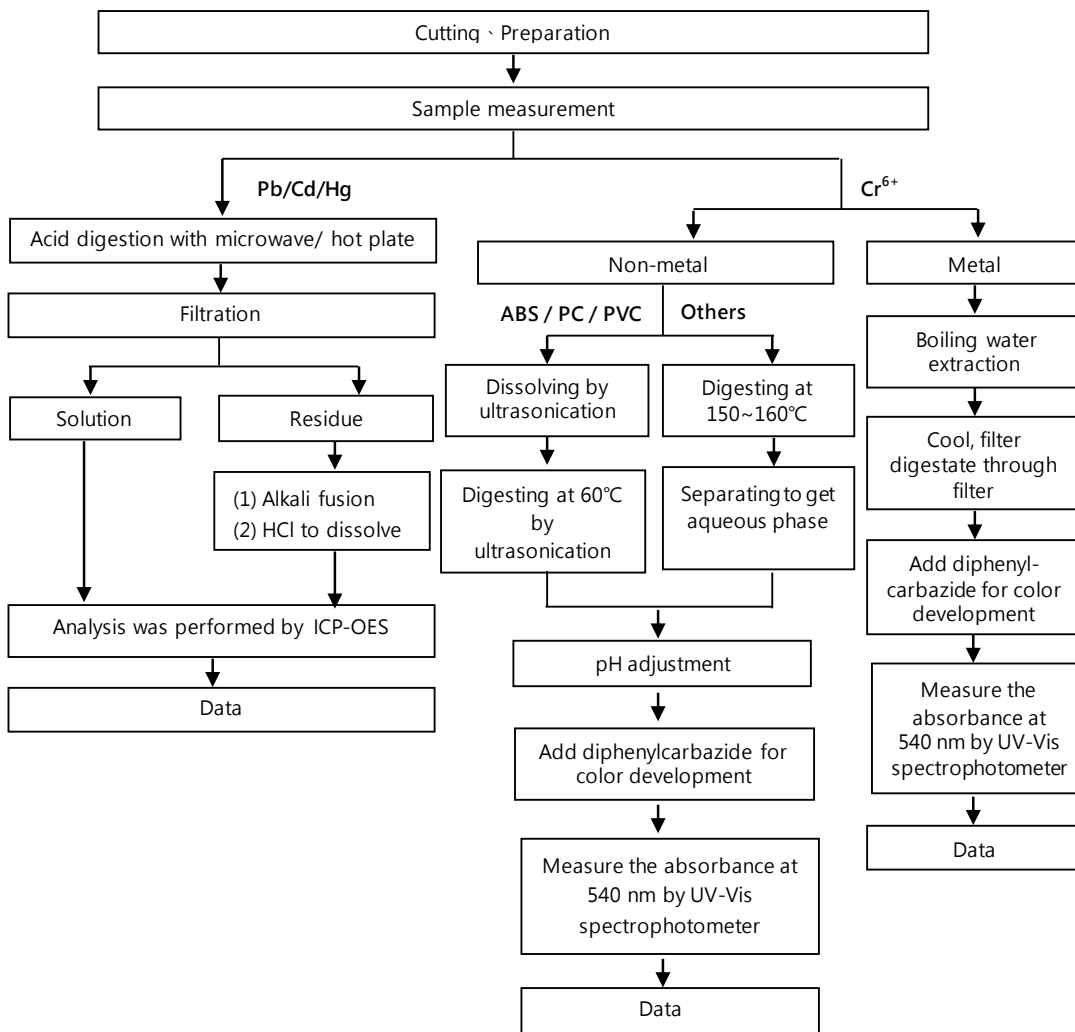
| Group Name            | Substance Name   | CAS No.      |
|-----------------------|--|--------------|
| PFTDA, its salts      | Perfluorotetradecanoic acid (PFTDA)  | 376-06-7     |
|                       | Perfluorotetradecanoate (anion)  | 365971-87-5  |
| 10:2 FTS, its salts   | 1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)   | 120226-60-0  |
|                       | 1H,1H,2H,2H-Perfluorododecane sulfonic acid Sodium Salt (10:2 FTS-Na)  | 108026-35-3  |
|                       | 2-(Perfluorodecyl)ethane-1-sulfonyl chloride (10:2 FTS-Cl)   | 27619-91-6   |
| PFNS, its salts       | Perfluorononane sulfonic acid (PFNS)   | 68259-12-1   |
|                       | Sodium perfluoro-1-nonanesulfonate (PFNS-Na*)  | 98789-57-2   |
|                       | Ammonium nonadecafluorononanesulphonate (PFNS-NH <sub>4</sub> )  | 17202-41-4   |
|                       | Potassium perfluorononanesulfonate (PFNS-K*)   | 29359-39-5   |
|                       | Perfluorononane sulfonate (anion)  | 474511-07-4  |
|                       | Perfluorononanesulfonyl fluoride (PFNS-F)  | 68259-06-3   |
| PFUnDS, its salts     | Perfluoroundecane sulfonic acid (PFUnDS)   | 749786-16-1  |
|                       | Perfluoroundecanesulfonate (anion)   | 441296-91-9  |
| PFDoDS, its salts     | Perfluorododecane sulfonic acid (PFDoDS)   | 79780-39-5   |
|                       | Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na*)  | 1260224-54-1 |
|                       | Potassium perfluorododecanesulfonate (PFDoDS-K)  | 85187-17-3   |
|                       | Perfluorododecane sulfonate (anion)  | 343629-43-6  |
| PFTrDS, its salts     | Perfluorotridecane sulfonic acid (PFTrDS)  | 791563-89-8  |
|                       | Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na*)   | 174675-49-1  |
| 10:2 diPAP, its salts | 10:2 Fluortelomerphosphatediester (10:2 diPAP)   | 1895-26-7    |
|                       | bis[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-henicosafuorododecyl] hydrogen phosphate, compound with 2,2'-iminodiethanol (1:1) (10:2 diPAP-C <sub>4</sub> H <sub>11</sub> O <sub>2</sub> ) | 57677-98-2   |
| PFPeDA, its salts     | Perfluoropentadecanoic acid (PFPeDA, C15)  | 141074-63-7  |
|                       | Nonacosafuoropentadecanoate (PFPeDA (anion))   | 1214264-29-5 |
| PFHxDA, its salts     | Perfluorohexadecanoic acid (PFHxDA, C16)   | 67905-19-5   |
|                       | Hentriacontafluorohexadecanoate anion (PFHxDA (anion))   | 1214264-30-8 |
| PFODA, its salts      | Perfluorooctadecanoic acid (PFODA, C18))   | 16517-11-6   |
|                       | Perfluorooctadecanoate anion (PFODA (anion))   | 798556-82-8  |

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## Analytical flow chart of heavy metal

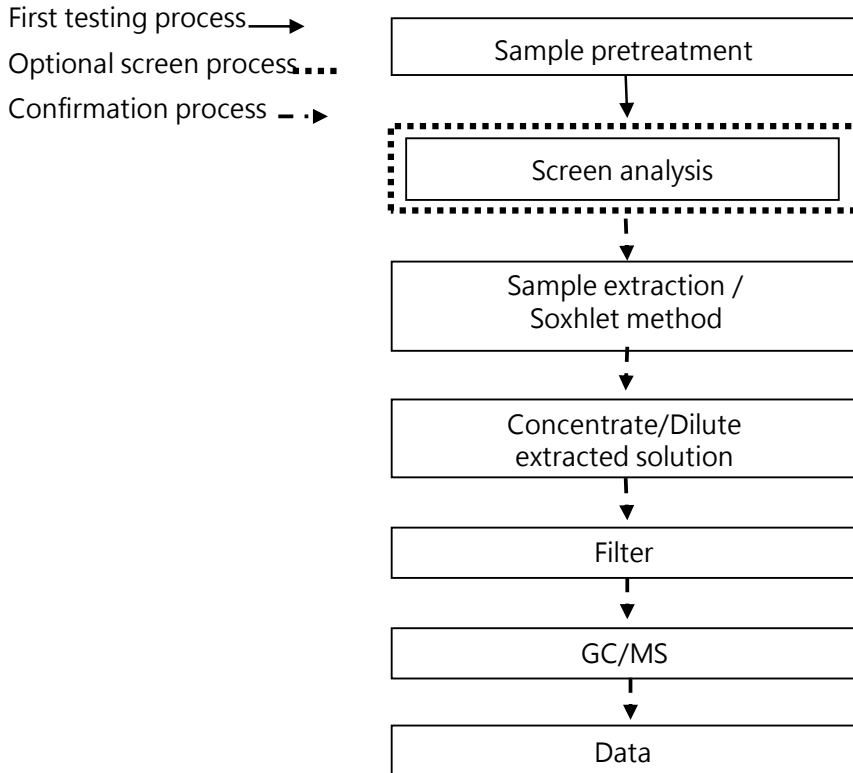
These samples were dissolved totally by pre-conditioning method according to below flow chart.

( Cr<sup>6+</sup> test method excluded )



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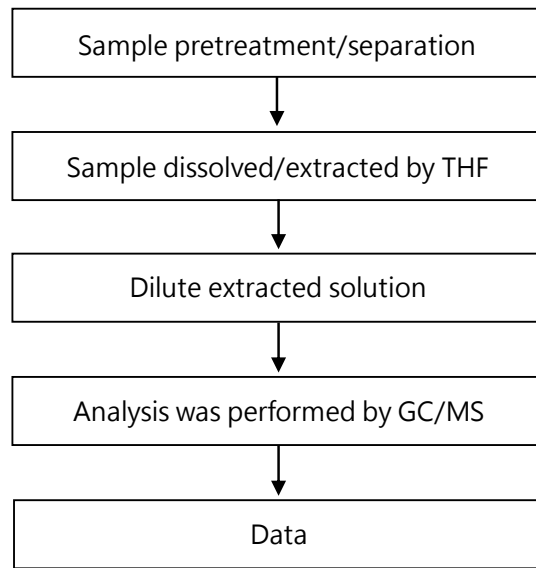
### Analytical flow chart – PBBs / PBDEs



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## Analytical flow chart - Phthalate

【Test method: IEC 62321-8】

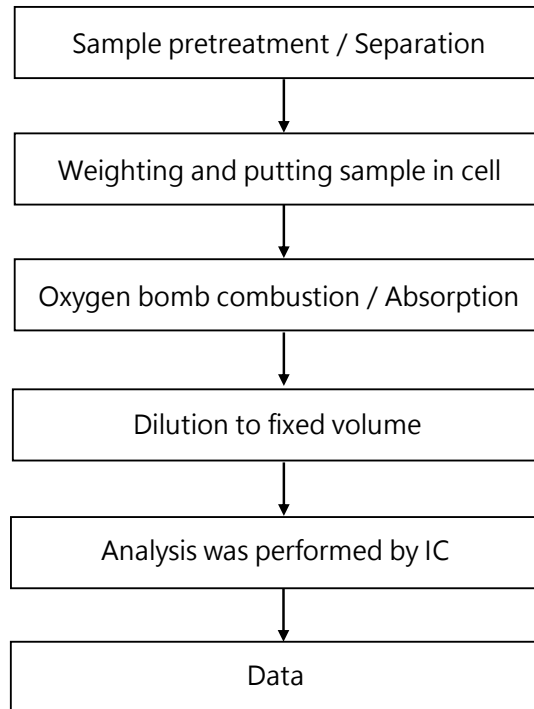


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### Analytical flow chart - Halogen

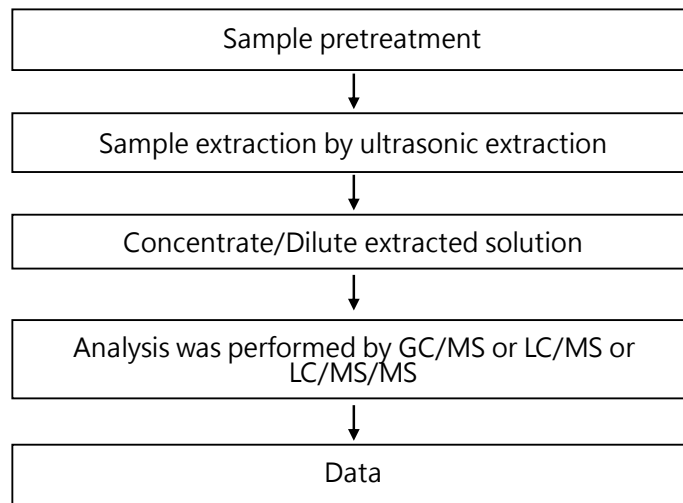


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### Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



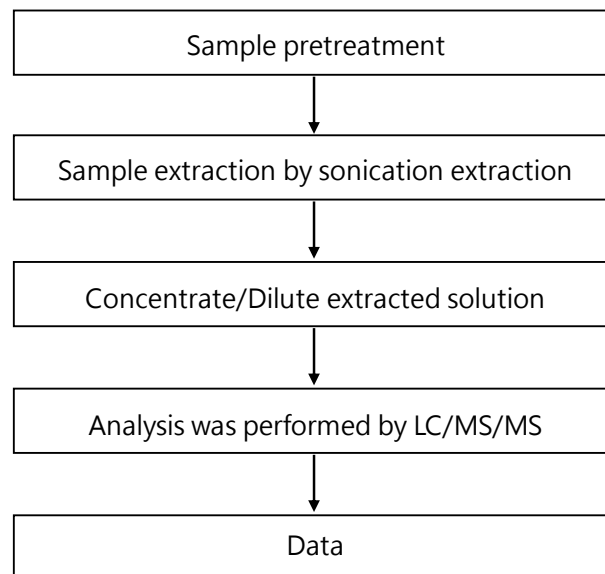
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### Analytical flow chart - Bisphenol A

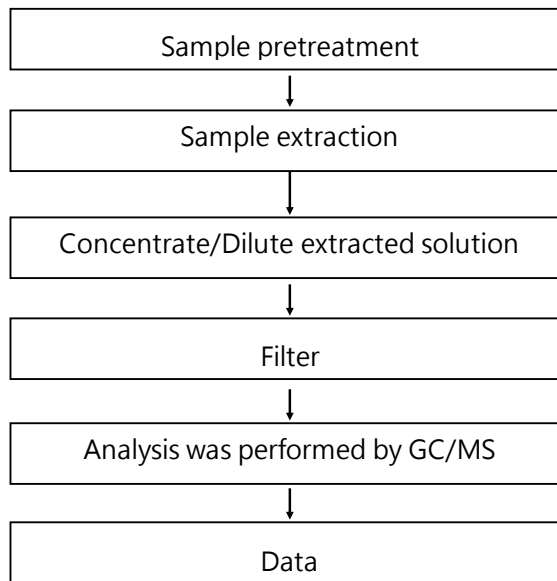


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### Analytical flow chart - HBCDD

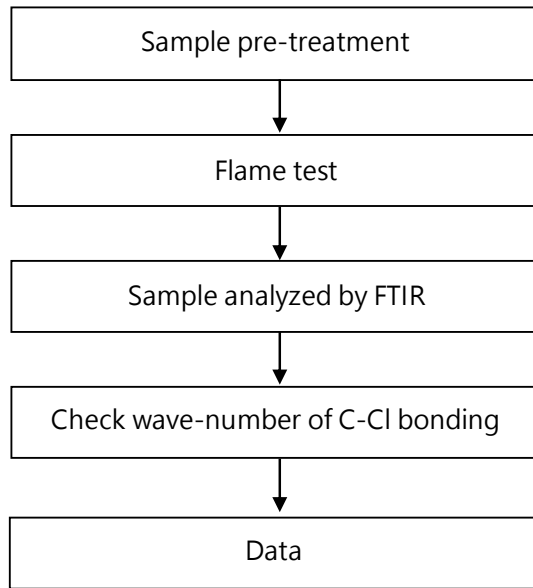


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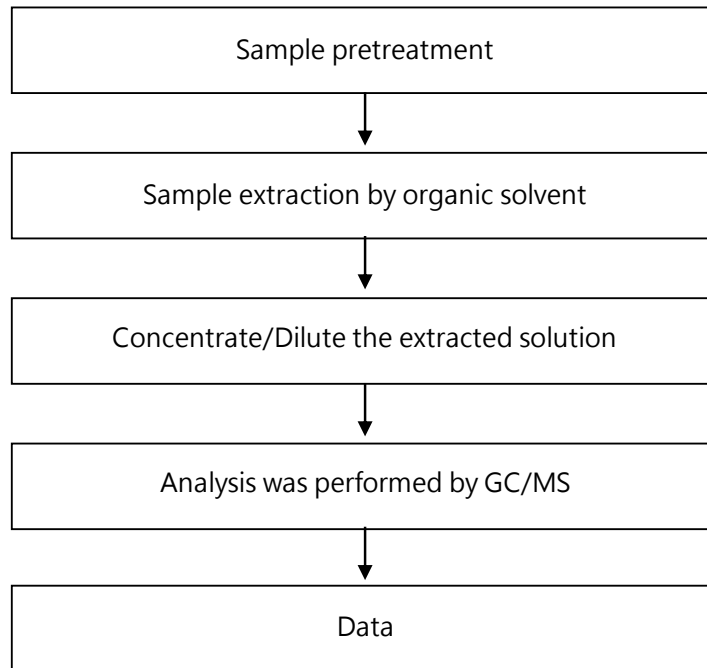
### Analysis flow chart - PVC



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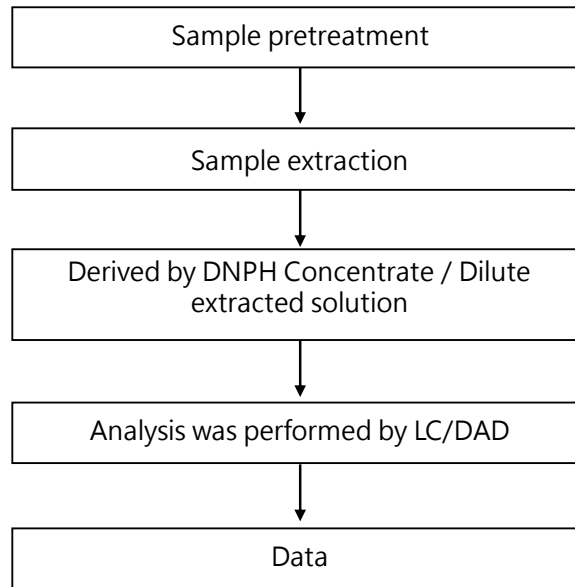
### Analytical flow chart

\* Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



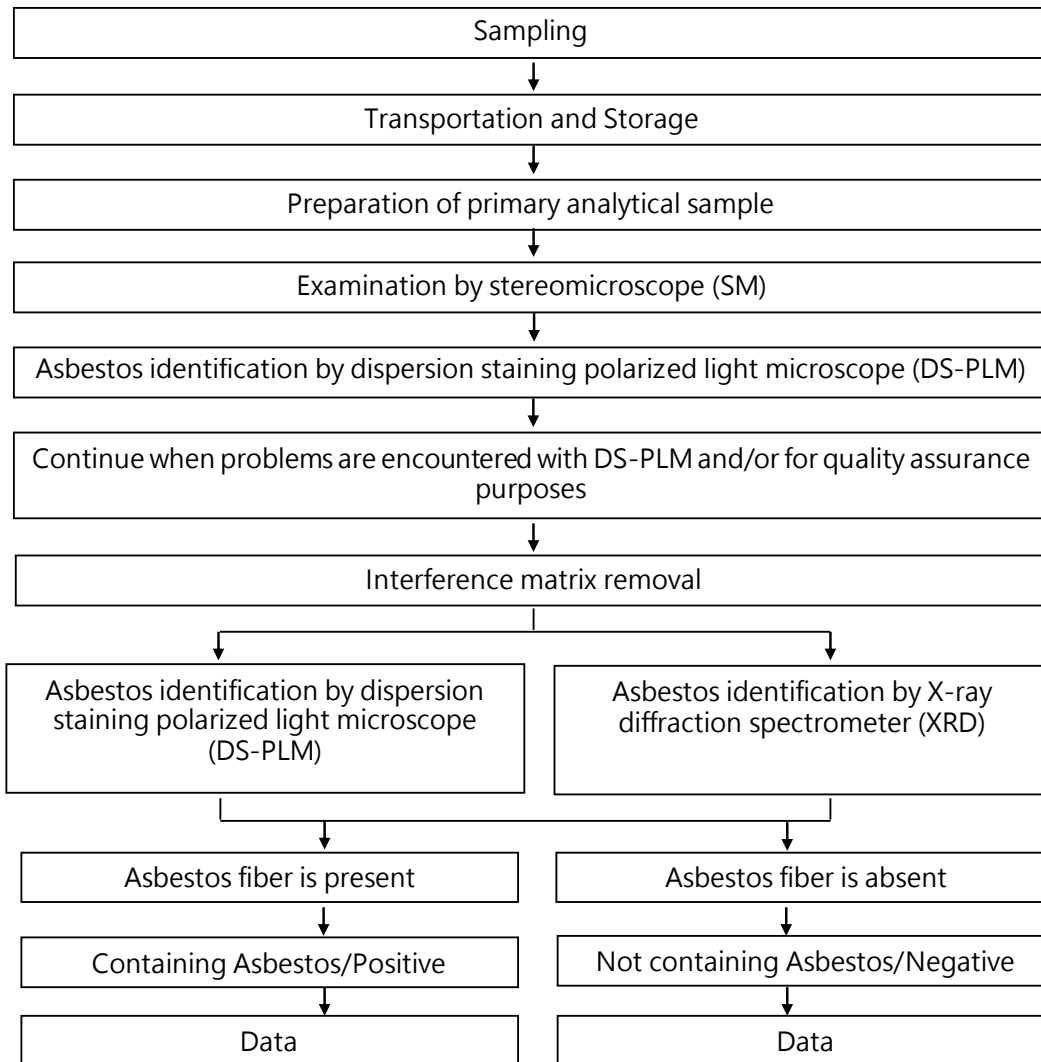
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### Analytical flow chart - Formaldehyde



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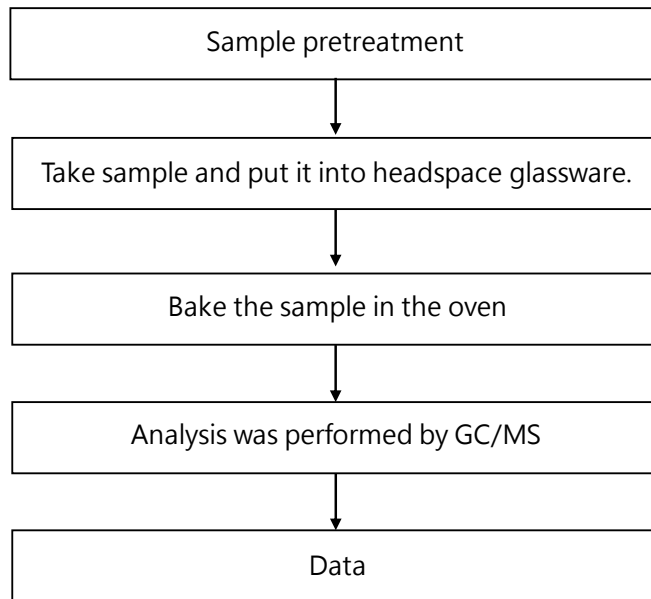
**Analysis flow chart for determination of Asbestos**  
**【 Reference method: EPA 600/R-93/116 】**



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## Analytical flow chart of volatile organic compounds (VOCs)

【 Reference method : US EPA 5021A 】

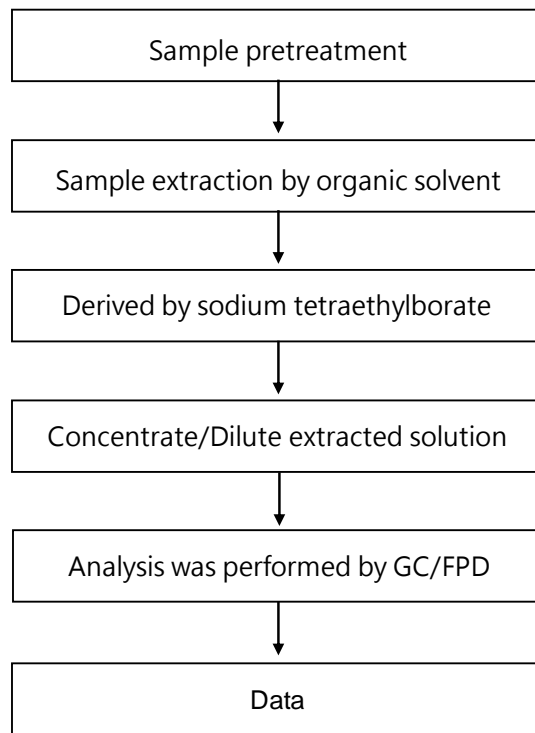


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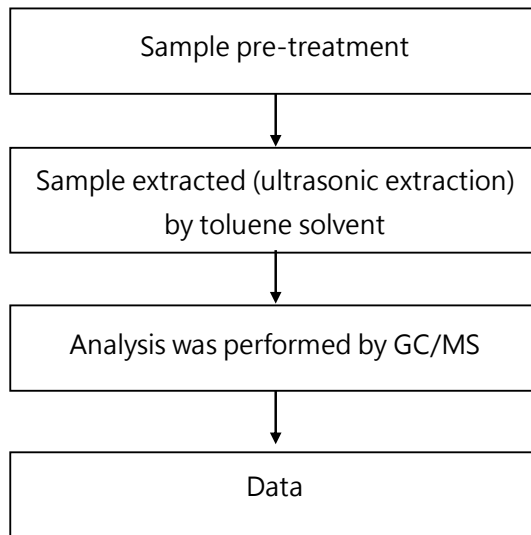
### Analytical flow chart - Organic-Tin



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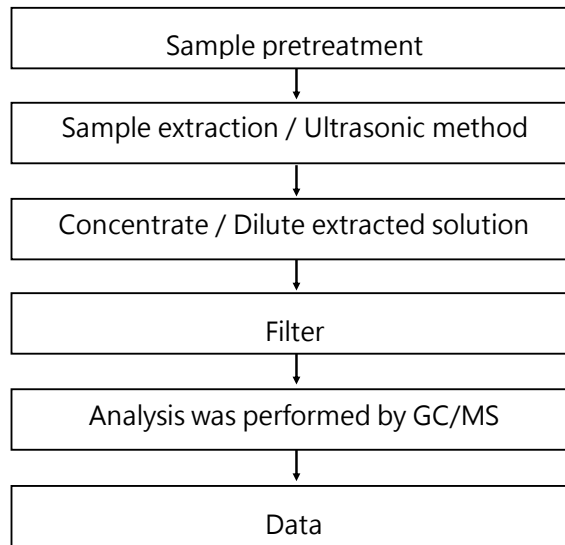


### Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



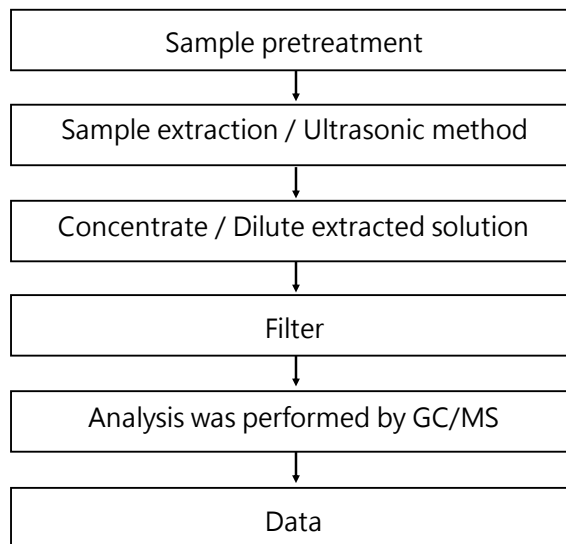
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## Analytical flow chart - Organic phosphorus compounds



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## Analytical flow chart - Organic phosphorus compounds

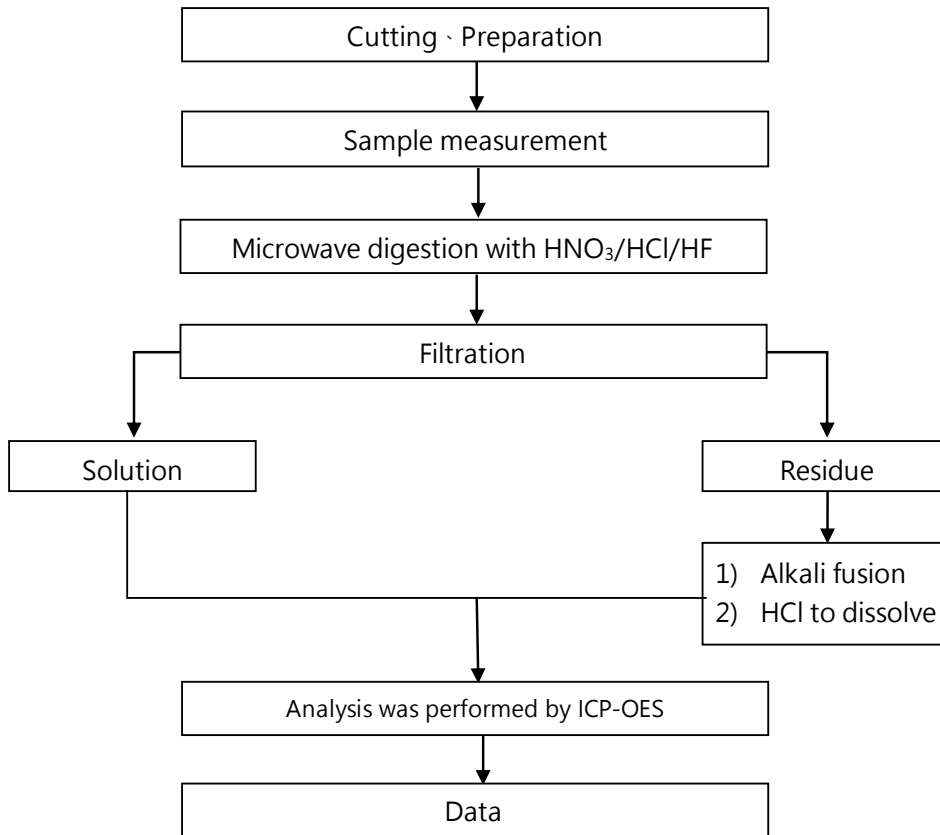


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### Analytical flow chart of elements (Heavy metal included)

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

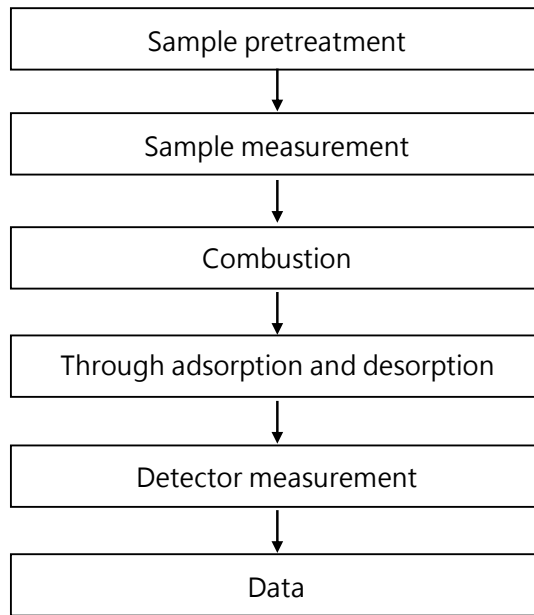
【Reference method : US EPA 3051A · US EPA 3052】



\* US EPA 3051A method does not add HF.

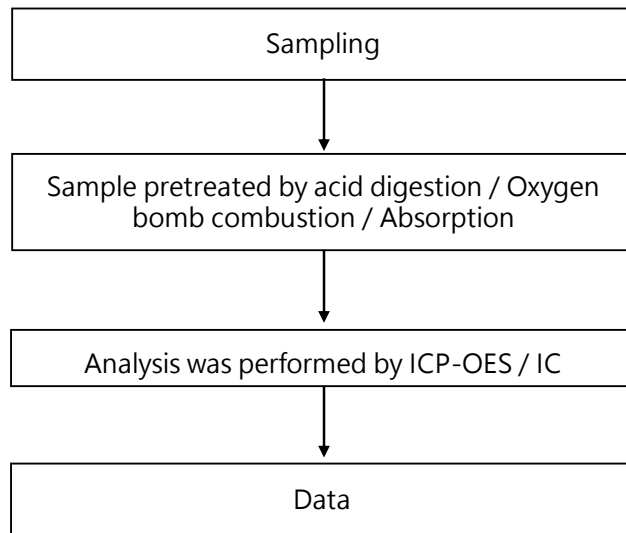
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### Analytical flow chart - Elements analyzer



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### Analytical flow chart - Cobalt dichloride



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HD MICROSYSTEMS

250 CHEESEQUAKE ROAD-BLDG. 424, PARLIN, NJ 08859-1241

\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

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\*\* End of Report \*\*

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