



# Test Report

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HD MICROSYSTEMS

13-1, HIGASHI-CHO, 4-CHOME, HITACHI-SHI, IBARAKI 317-8555 JAPAN

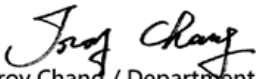
The following sample(s) was/were submitted and identified by the applicant as:


Sample Submitted By : HD MICROSYSTEMS  
 Sample Name : POLYBENZOXAZOLE PRECURSOR  
 Style/Item No. : HD-8820

=====  
 Sample Receiving Date : 17-Jul-2023  
 Testing Period : 17-Jul-2023 to 21-Jul-2023

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) Please refer to next pages for the 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: 7F89BA4A

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## Test Part Description

No.1 : TRANSPARENT BROWN PASTE

## 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)  | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.     | mg/kg | 50   | n.d.   |
| Di-(2-ethylhexyl) phthalate (DEHP)   | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.     | mg/kg | 50   | n.d.   |
| Diisobutyl phthalate (DIBP)  | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.     | mg/kg | 50   | n.d.   |
| Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)  | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.     | mg/kg | 50   | n.d.   |
| Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)  | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.     | mg/kg | 50   | n.d.   |
| Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)  | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.     | mg/kg | 50   | n.d.   |
| Di-n-pentyl phthalate (DNPP) (CAS No.: 131-18-0)   | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.     | mg/kg | 50   | n.d.   |
| Di-n-hexyl phthalate (DNHP) (CAS No.: 84-75-3)   | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.     | mg/kg | 50   | n.d.   |
| 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.   |
| Fluorine (F) (CAS No.: 14762-94-8)   | With reference to BS EN 14582: 2016, analysis was performed by IC.        | mg/kg | 50   | 57300  |
| Chlorine (Cl) (CAS No.: 22537-15-1)  | With reference to BS EN 14582: 2016, analysis was performed by IC.        | mg/kg | 50   | n.d.   |
| Bromine (Br) (CAS No.: 10097-32-2)   | With reference to BS EN 14582: 2016, analysis was performed by IC.        | mg/kg | 50   | n.d.   |
| Iodine (I) (CAS No.: 14362-44-8)   | With reference to BS EN 14582: 2016, analysis was performed by IC.        | mg/kg | 50   | 730    |
| PFOS and its salts (CAS No.: 1763-23-1 and its salts)  | With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   |
| PFOA and its salts (CAS No.: 335-67-1 and its salts)   | With reference to CEN/TS 15968: 2010, 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   |
| PFOS and its salts (CAS No.: 1763-23-1 and its salts)                   | With reference to US EPA 3550C: 2007, analysis was performed by LC/MS/MS.             | mg/kg | 10    | n.d.   |
| PFOA and its salts (CAS No.: 335-67-1 and its salts)                    | With reference to US EPA 3550C: 2007, analysis was performed by LC/MS/MS.             | mg/kg | 10    | n.d.   |
| Dimethyl fumarate (DMFu) (CAS No.: 624-49-7)                            | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.                | mg/kg | 0.1   | 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.   |
| 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.   |
| Tributyl tin (TBT)  | With reference to ISO 17353: 2004, analysis was performed by GC/FPD.                  | 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.   |
| Triphenyl tin (TPT)   | With reference to ISO 17353: 2004, analysis was performed by GC/FPD.                  | mg/kg | 0.03  | n.d.   |
| Dibutyl tin (DBT)   | With reference to ISO 17353: 2004, analysis was performed by GC/FPD.                  | mg/kg | 0.03  | n.d.   |
| Diocetyl tin (DOT)  | With reference to ISO 17353: 2004, analysis was performed by GC/FPD.                  | mg/kg | 0.03  | n.d.   |
| <b>AZO Dyes</b>   |   |       |       |        |
| 4-aminodiphenyl (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.   |

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| Test Item(s)  | Method  | Unit  | MDL | Result |
|---|---|-------|-----|--------|
|   |   |       |     | No.1   |
| 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.   |
| 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.   |

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| Test Item(s)  | Method  | Unit  | MDL | Result   |
|---|---|-------|-----|----------|
|   |   |       |     | No.1     |
| 4,4'-methylene-bis-(2-chloroaniline)<br>(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.     |
| 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.     |
| Polyvinyl chloride (PVC)                                    | With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test.                             | **    | -   | Negative |
| Formaldehyde (CAS No.: 50-00-0)                             | With reference to ISO 17226-1: 2021, analysis was performed by LC/DAD.  | mg/kg | 3   | n.d.     |

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| Test Item(s)                        | Method  | Unit  | MDL | Result   |
|-------------------------------------|---|-------|-----|----------|
|                                     |   |       |     | No.1     |
| <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 |
| <b>Chlorofluorocarbons (CFCs)</b>   |   |       |     |          |
| CFC-13 (CAS No.: 75-72-9)           | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.     |
| CFC-111 (CAS No.: 354-56-3)         | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.     |
| CFC-112 (CAS No.: 76-12-0)          | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.     |
| CFC-211 (CAS No.: 422-78-6)         | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.     |
| CFC-212 (CAS No.: 3182-26-1)        | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.     |
| CFC-213 (CAS No.: 2354-06-5)        | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.     |
| CFC-214 (CAS No.: 29255-31-0)       | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.     |
| CFC-215 (CAS No.: 4259-43-2)        | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.     |
| CFC-216 (CAS No.: 661-97-2)         | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.     |
| CFC-217 (CAS No.: 422-86-6)         | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.     |

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| Test Item(s)                            | Method   | Unit  | MDL | Result |
|---|--|-------|-----|--------|
|   |  |       |     | No.1   |
| CFC-12 (CAS No.: 75-71-8)               | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| CFC-11 (CAS No.: 75-69-4)               | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| CFC-115 (CAS No.: 76-15-3)              | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| CFC-114 (CAS No.: 76-14-2)              | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| CFC-113 (CAS No.: 76-13-1)              | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| <b>Hydrochlorofluorocarbons (HCFCs)</b> |  |       |     |        |
| HCFC-21 (CAS No.: 75-43-4)              | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-22 (CAS No.: 75-45-6)              | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-31 (CAS No.: 593-70-4)             | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-121 (CAS No.: 354-14-3)            | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-122 (CAS No.: 354-21-2)            | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-123 (CAS No.: 306-83-2)            | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-124 (CAS No.: 2837-89-0)           | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-131 (CAS No.: 359-28-4)            | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-132b (CAS No.: 1649-08-7)          | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-133a (CAS No.: 75-88-7)            | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-142b (CAS No.: 75-68-3)            | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |

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| Test Item(s)                   | Method   | Unit  | MDL | Result |
|--------------------------------|--|-------|-----|--------|
|                                |  |       |     | No.1   |
| HCFC-221 (CAS No.: 422-26-4)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-222 (CAS No.: 422-49-1)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-223 (CAS No.: 422-52-6)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-224 (CAS No.: 422-54-8)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-225ca (CAS No.: 422-56-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-225cb (CAS No.: 507-55-1) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-226 (CAS No.: 431-87-8)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-231 (CAS No.: 421-94-3)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-232 (CAS No.: 460-89-9)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-233 (CAS No.: 7125-84-0)  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-234 (CAS No.: 425-94-5)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-235 (CAS No.: 460-92-4)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-241 (CAS No.: 666-27-3)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-242 (CAS No.: 460-63-9)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-244                       | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-251 (CAS No.: 421-41-0)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-252 (CAS No.: 819-00-1)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |

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| Test Item(s)                           | Method   | Unit  | MDL | Result |
|--|--|-------|-----|--------|
|  |  |       |     | No.1   |
| HCFC-261 (CAS No.: 420-97-3)           | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-262 (CAS No.: 421-02-03)          | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-271 (CAS No.: 430-55-7)           | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-141b (CAS No.: 1717-00-6)         | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-243 (CAS No.: 460-69-5)           | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-253 (CAS No.: 460-35-5)           | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-141                               | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-142                               | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-151                               | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HCFC-225                               | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | 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)          | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| Halon-2402 (CAS No.: 124-73-2)         | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | 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 (C3H6FBr)                   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-262B1 (C3H5F2Br)                  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |

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| Test Item(s)           | Method   | Unit  | MDL | Result |
|------------------------|--|-------|-----|--------|
|                        |  |       |     | No.1   |
| HBFC-261B2 (C3H5FBr2)  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-253B1 (C3H4F3Br)  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-252B2 (C3H4F2Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-251B3 (C3H4FBr3)  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-244B1 (C3H3F4Br)  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-243B2 (C3H3F3Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-242B3 (C3H3F2Br3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-241B4 (C3H3FBr4)  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-235B1 (C3H2F5Br)  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-234B2 (C3H2F4Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-233B3 (C3H2F3Br3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-232B4 (C3H2F2Br4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-231B5 (C3H2FBr5)  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-226B1 (C3HF6Br)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-225B2 (C3HF5Br2)  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-224B3 (C3HF4Br3)  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-223B4 (C3HF3Br4)  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |

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| Test Item(s)                            | Method   | Unit  | MDL | Result |
|---|--|-------|-----|--------|
|   |  |       |     | No.1   |
| HBFC-222B5 (C3HF2Br5)                   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-221B6 (C3HFBr6)                    | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-151B1 (C2H4FBr)                    | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-142B1 (C2H3F2Br)                   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-141B2 (C2H3FBr2)                   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-133B1 (C2H2F3Br)                   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-132B2 (C2H2F2Br2)                  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-131B3 (C2H2FBr3)                   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-124B1 (C2HF4Br)                    | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-123B2 (C2HF3Br2)                   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-122B3 (C2HF2Br3)                   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-121B4 (C2HFBr4)                    | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-31B1 (CH2FBr) (CAS No.: 373-52-4)  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-22B1 (CHF2Br) (CAS No.: 1511-62-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HBFC-21B2 (CHFBr2) (CAS No.: 1868-53-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |

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| Test Item(s)   | Method   | Unit  | MDL | Result |
|--|--|-------|-----|--------|
|  |  |       |     | No.1   |
| <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)                 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| 2,2-Dichloropropane (CAS No.: 594-20-7)                | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| Carbon tetrachloride (CAS No.: 56-23-5)                | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| Chloromethane (CAS No.: 74-87-3)                       | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| cis-1,2-Dichloroethene (CAS No.: 156-59-2)             | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| 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)                 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| trans-1,2-Dichloroethene (CAS No.: 156-60-5)           | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| trans-1,3-Dichloropropene (CAS No.: 10061-02-6)        | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| Dichloromethane, Methylene chloride (CAS No.: 75-09-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| 1,2-Dichloropropane (CAS No.: 78-87-5)                 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| 1,1,1,2-Tetrachloroethane (CAS No.: 630-20-6)          | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| 1,1,1-Trichloroethane (CAS No.: 71-55-6)               | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| 1,1,2-Trichloroethane (CAS No.: 79-00-5)               | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| 1,1,2,2-Tetrachloroethane (CAS No.: 79-34-5)           | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |

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| Test Item(s)                              | Method   | Unit  | MDL | Result |
|---|--|-------|-----|--------|
|   |  |       |     | No.1   |
| 1,1-Dichloroethylene (CAS No.: 75-35-4)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| 1,1-Dichloroethane (CAS No.: 75-34-3)     | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| Chloroethane (CAS No.: 75-00-3)           | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| Tetrachloroethene (CAS No.: 127-18-4)     | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| Trichloroethylene (CAS No.: 79-01-6)      | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| 1,3-Dichloropropane (CAS No.: 142-28-9)   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| Chloroform (CAS No.: 67-66-3)             | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| 1,2,3-Trichloropropane (CAS No.: 96-18-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| <b>Hydrofluorocarbon (HFCs)</b>           |  |       |     |        |
| HFC-23 (CHF3) (CAS No.: 75-46-7)          | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HFC-32 (CH2F2) (CAS No.: 75-10-5)         | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HFC-41 (CH3F) (CAS No.: 593-53-3)         | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HFC-43-10mee (C5H2F10)                    | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HFC-125 (C2HF5)                           | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HFC-134 (C2H2F4)                          | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HFC-134a (CH2FCF3) (CAS No.: 811-97-2)    | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HFC-143 (CH3F3)                           | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |

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HD MICROSYSTEMS

13-1, HIGASHI-CHO, 4-CHOME, HITACHI-SHI, IBARAKI 317-8555 JAPAN

| Test Item(s)  | Method   | Unit  | MDL | Result |
|---|--|-------|-----|--------|
|   |  |       |     | No.1   |
| HFC-143a (CH3F3)  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HFC-152a (C2H4F2) (CAS No.: 75-37-6)                    | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HFC-227ea (C3HF7) (CAS No.: 431-89-0)                   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HFC-236fa (CAS No.: 431-63-0)                           | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HFC-245ca (C3H3F5)                                      | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HFC-245fa (C3H3F5)                                      | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HFC-365mfc (C4H5F5)                                     | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| HFC-236ea (C3H2F6) (CAS No.: 431-63-0)                  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| <b>Perfluorocarbon (PFCs)</b>                           |  |       |     |        |
| 1,4-dihydrooctafluorobutane (CAS No.: 377-36-6)         | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| 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)                    | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| F14 (CAS No.: 75-73-0)                                  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| Fluorocarbon 116 (CAS No.: 76-16-4)                     | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| Freon 218 (CAS No.: 76-19-7)                            | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| Freon C318 (CAS No.: 115-25-3)                          | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |
| Nonafluor-2-(trifluoromethyl)butane (CAS No.: 594-91-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1   | n.d.   |

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HD MICROSYSTEMS

13-1, HIGASHI-CHO, 4-CHOME, HITACHI-SHI, IBARAKI 317-8555 JAPAN

| Test Item(s)  | Method  | Unit  | MDL | Result |
|---|---|-------|-----|--------|
|   |   |       |     | No.1   |
| Perfluorobutene (CAS No.: 382-21-8)                                       | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.   |
| Perfluorohexane (CAS No.: 355-42-0)                                       | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.   |
| Perfluoro-n-pentane (CAS No.: 678-26-2)                                   | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.   |
| Perfluor-1-butene (CAS No.: 357-26-6)                                     | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.   |
| Sulfur hexafluoride (CAS No.: 2551-62-4)                                  | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.   |
| Bromochloromethan (CAS No.: 74-97-5)                                      | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS.  | mg/kg | 1   | n.d.   |
| 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.   |
| 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.   |
| Phosphorus (P) (CAS No.: 7723-14-0)                                       | With reference to US EPA 3052: 1996, analysis was performed by ICP-OES. | mg/kg | 2   | 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.   |

**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
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".

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HD MICROSYSTEMS

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8. PFOS and its salts including :

CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.

9. PFOA and its salts including :

CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.

10. ▲ : 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 |

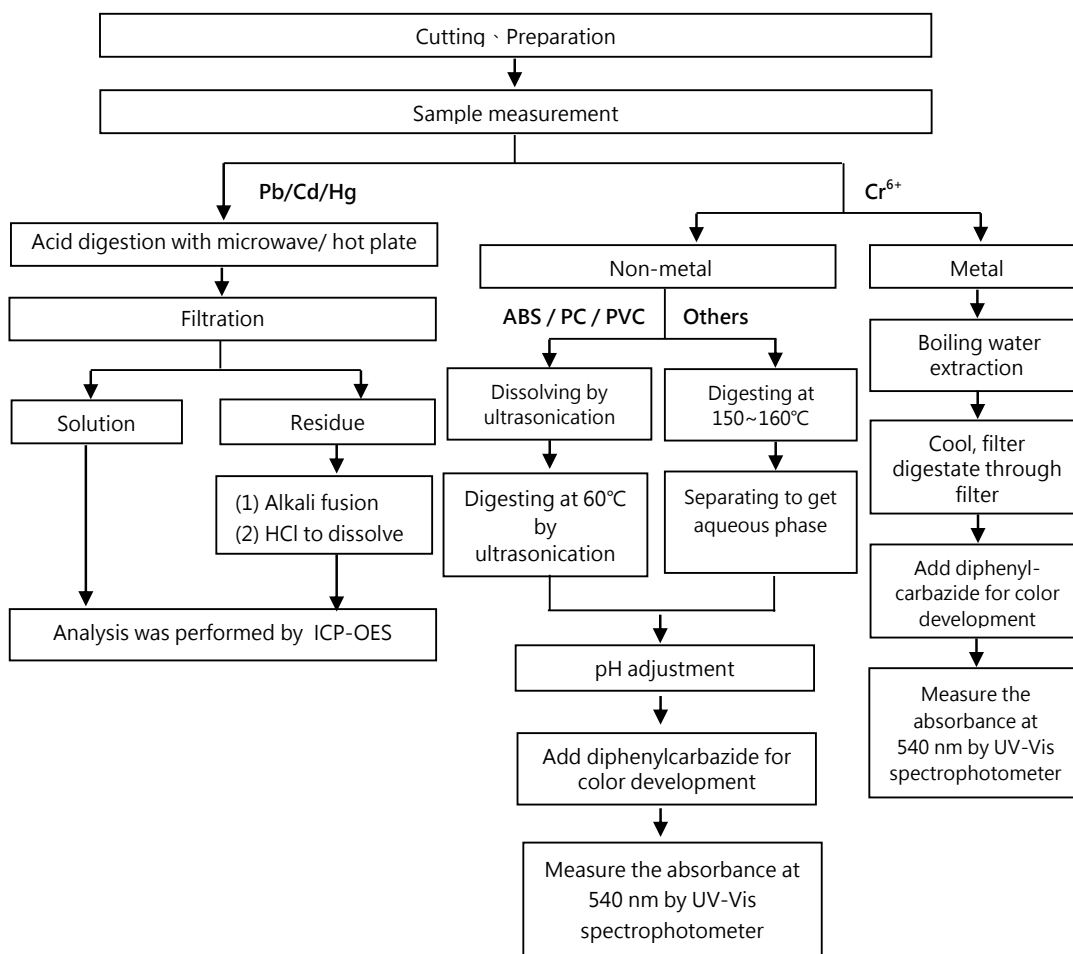
Parameter Conversion Table : [https://eecloud.sgs.com/Region\\_TW/DocDownload.aspx?name=Other](https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Other)

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## Analytical flow chart of heavy metal

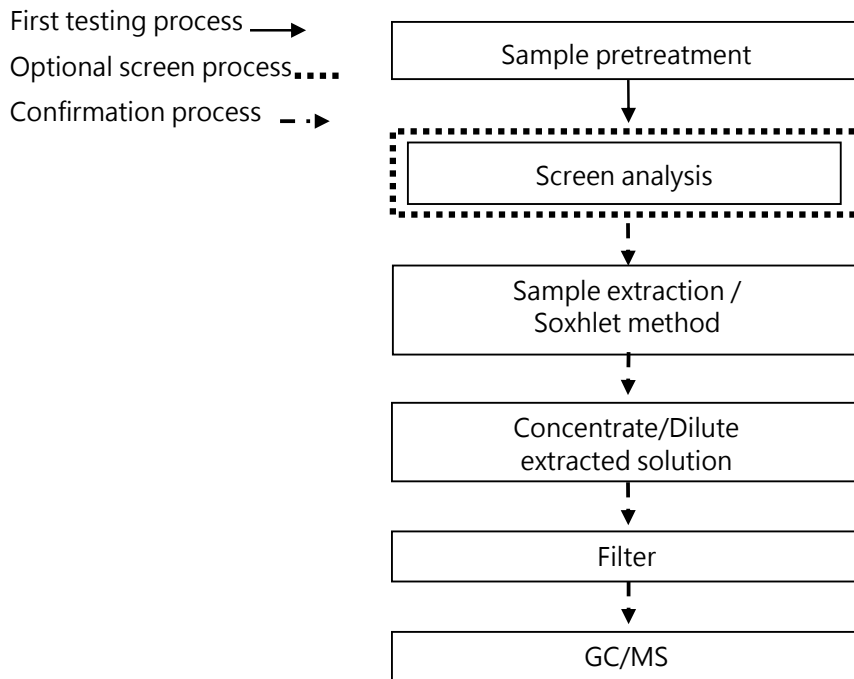
These samples were dissolved totally by pre-conditioning method according to below flow chart.

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



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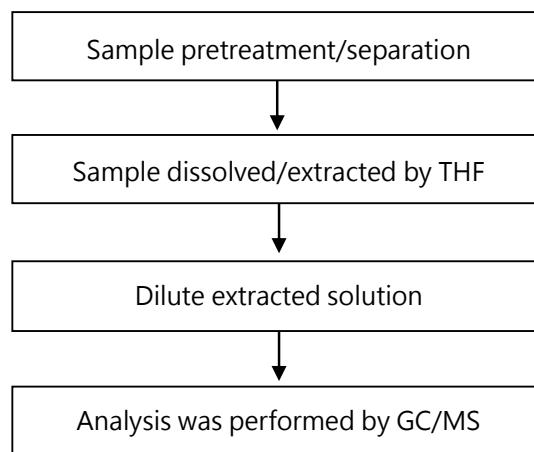
### Analytical flow chart – PBBs / PBDEs



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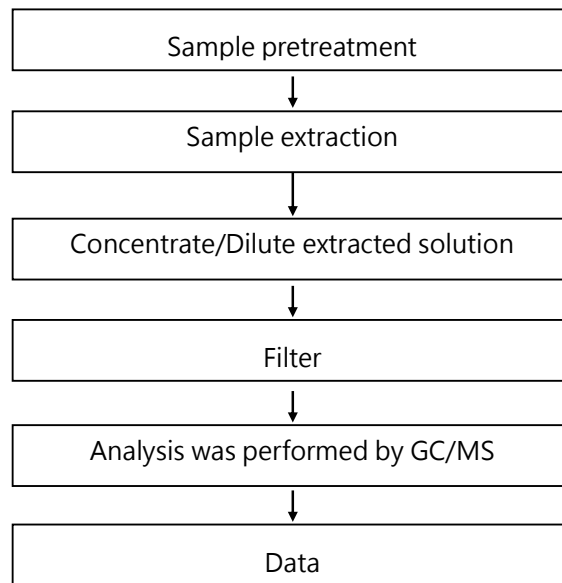
### Analytical flow chart - Phthalate

【Test method: IEC 62321-8】



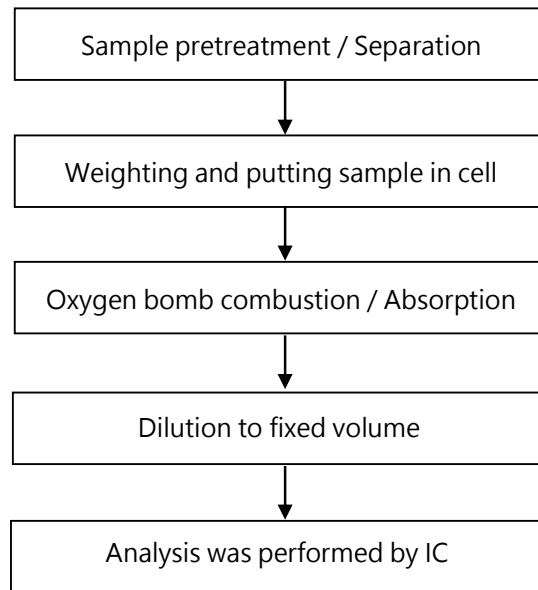
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### Analytical flow chart - HBCDD



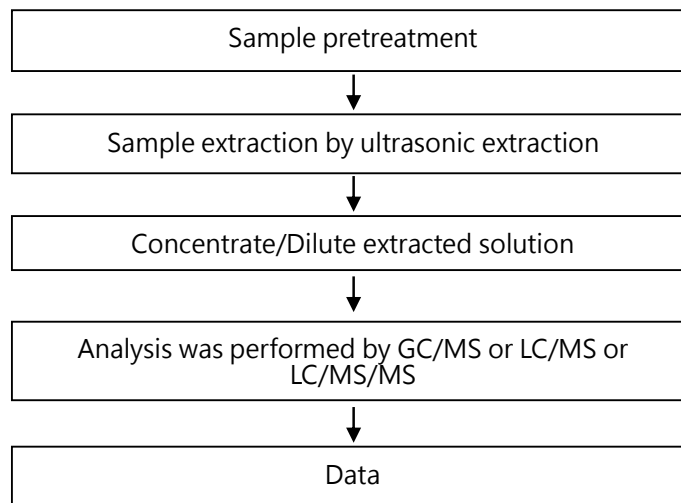
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### Analytical flow chart - Halogen



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

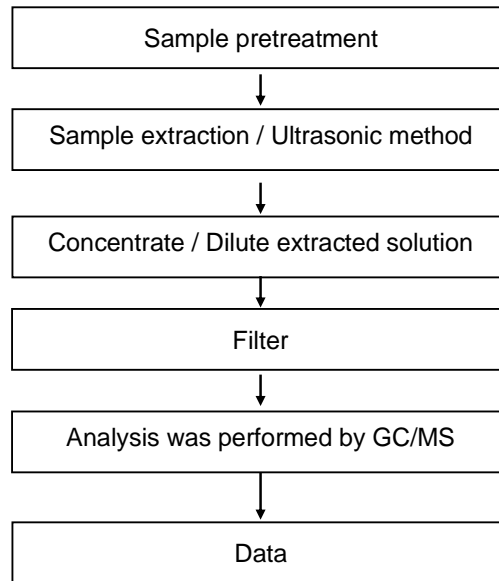


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HD MICROSYSTEMS

13-1, HIGASHI-CHO, 4-CHOME, HITACHI-SHI, IBARAKI 317-8555 JAPAN

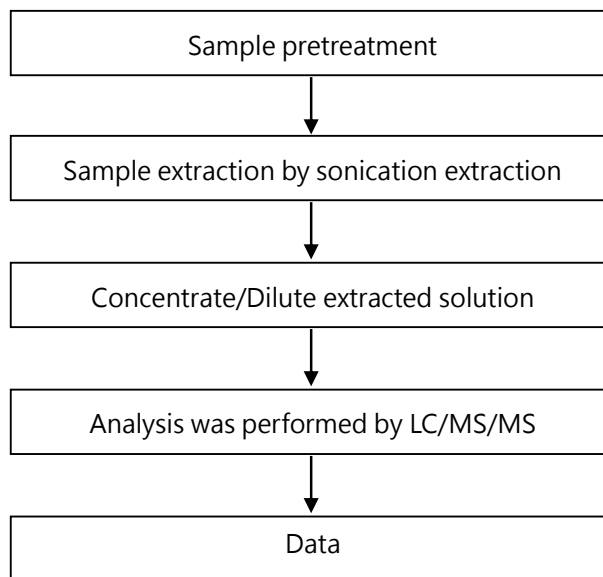
### Analytical flow chart - Dimethyl Fumarate



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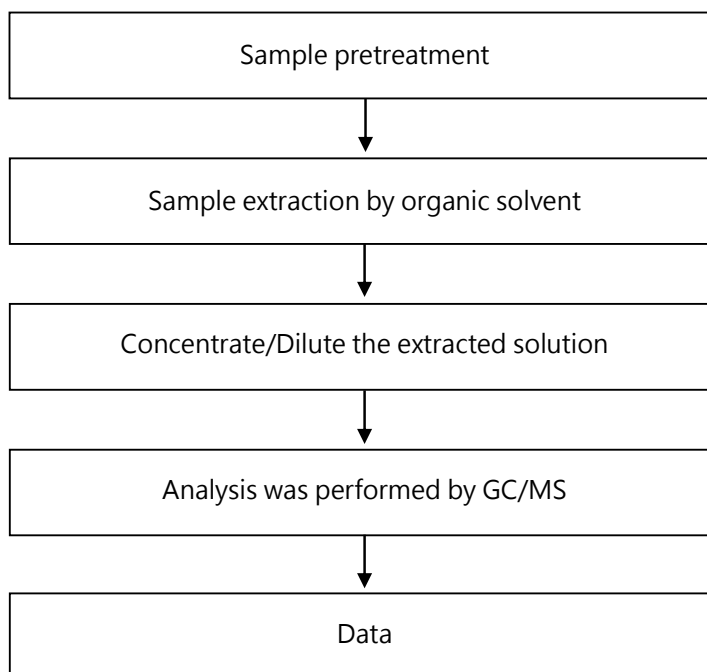
### Analytical flow chart - Bisphenol A



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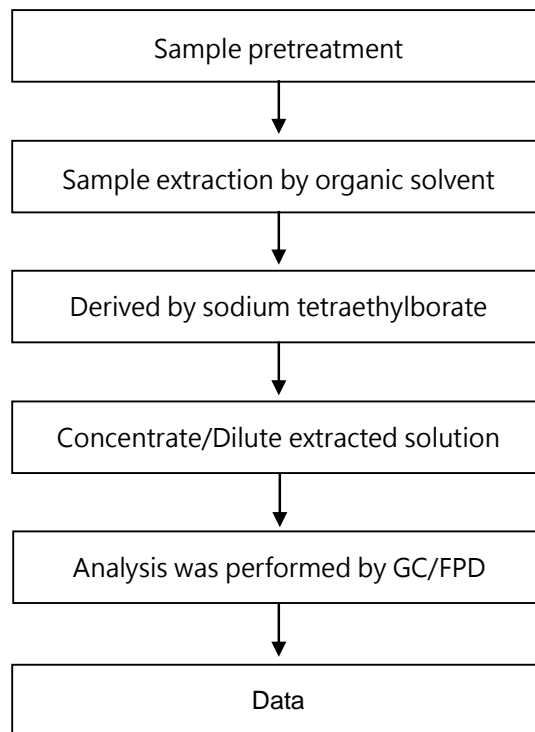
## Analytical flow chart

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



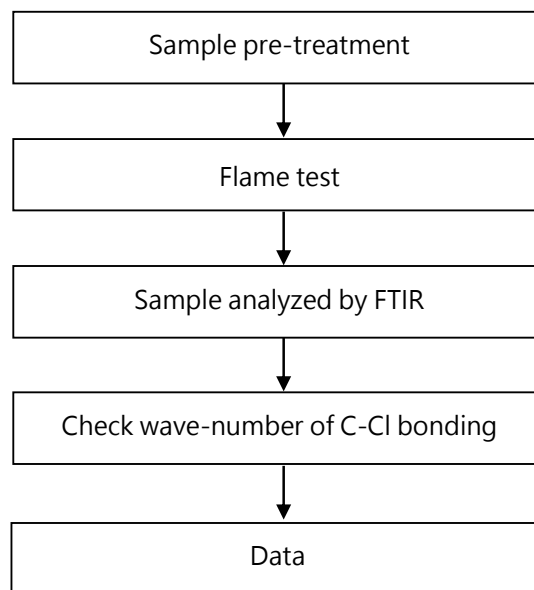
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### Analytical flow chart - Organic-Tin



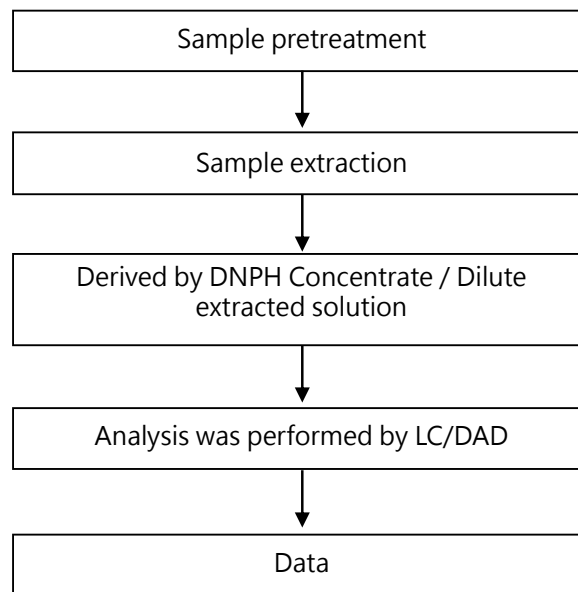
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### Analysis flow chart - PVC



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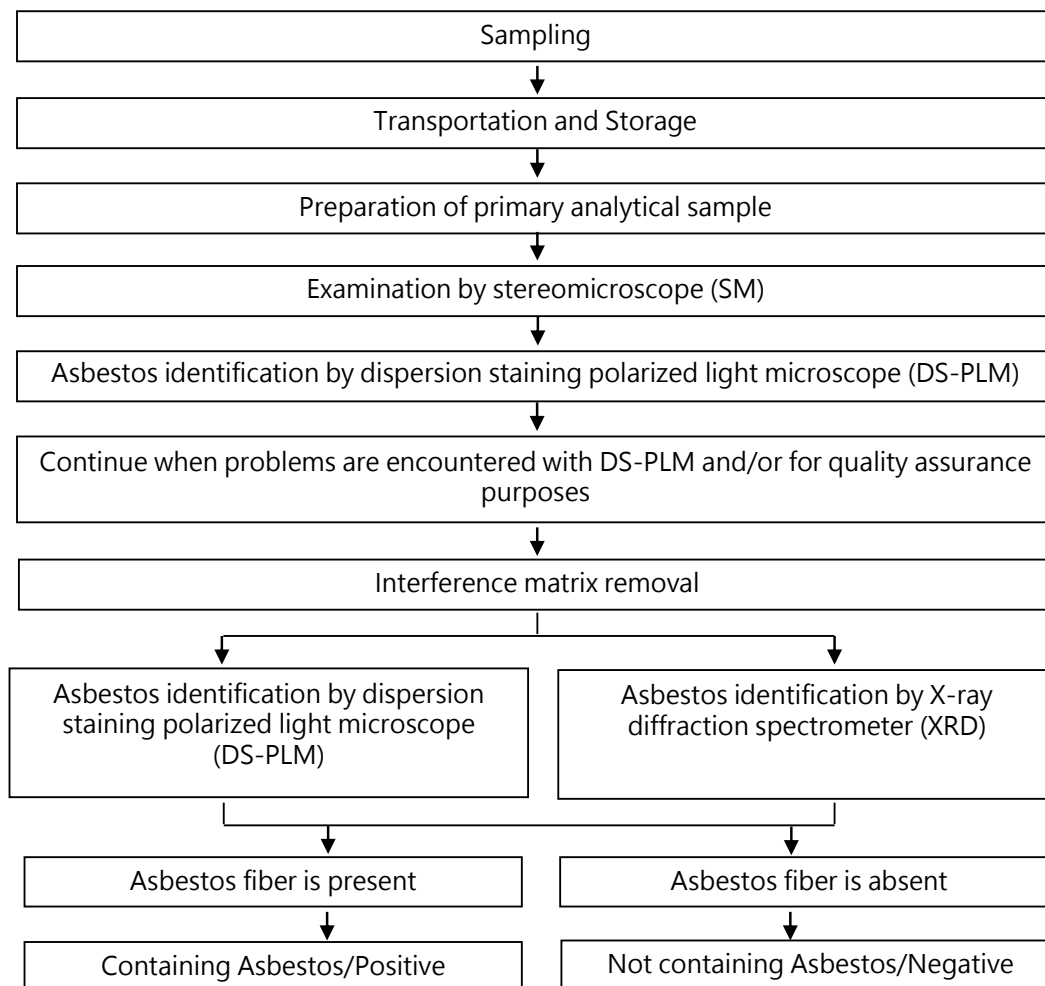
## Analytical flow chart - Formaldehyde



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### Analysis flow chart for determination of Asbestos

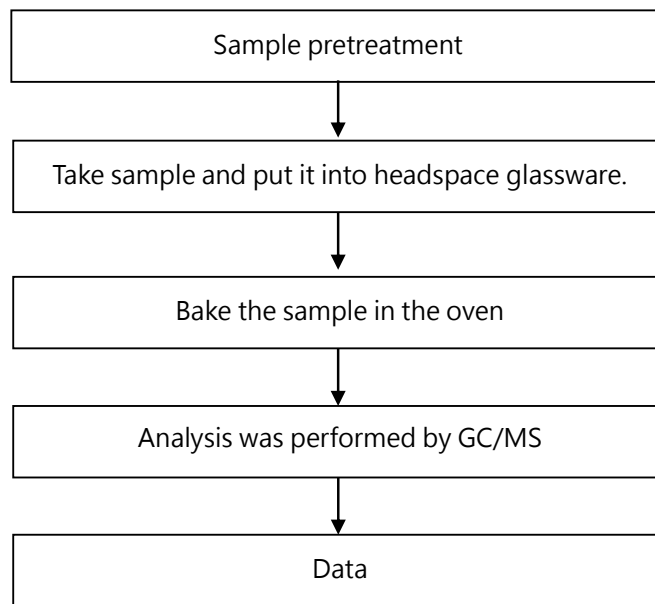
【Reference method: EPA 600/R-93/116】



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

【Reference method : US EPA 5021A】

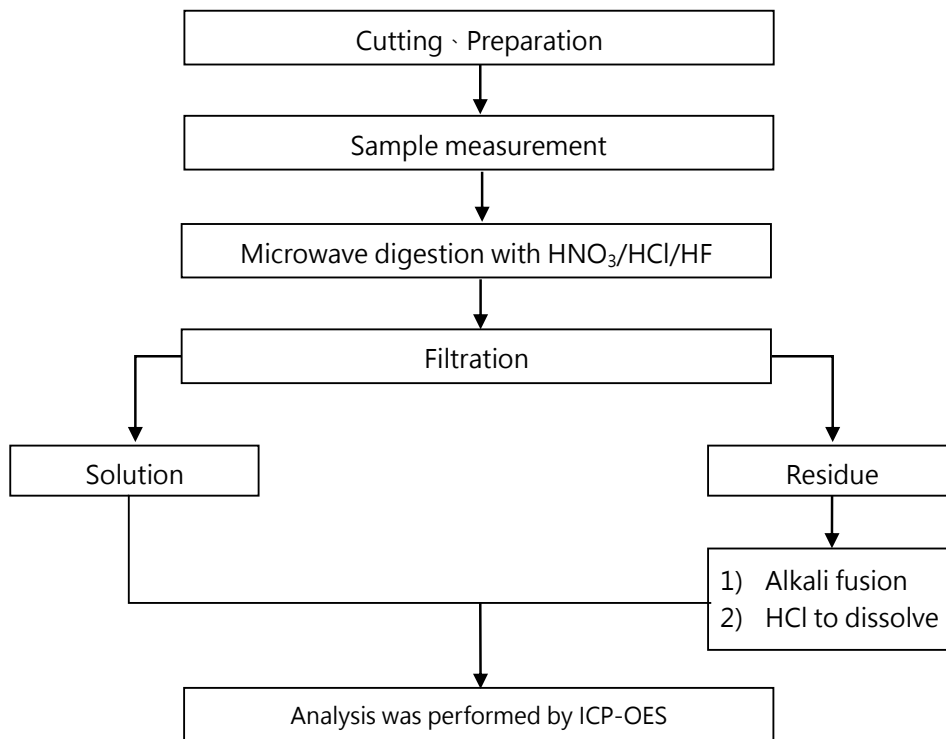


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### Analytical flow chart of elements (Heavy metal included)

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.



## Test Report

No.: ETR23703564

Date: 25-Jul-2023

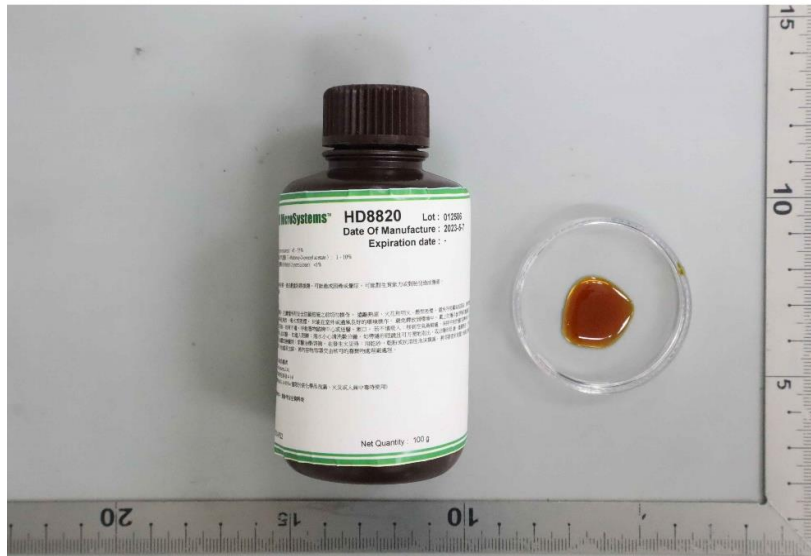
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HD MICROSYSTEMS

13-1, HIGASHI-CHO, 4-CHOME, HITACHI-SHI, IBARAKI 317-8555 JAPAN

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

### ETR23703564



\*\* End of Report \*\*

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