

## Test Report

No.: ETR21C05348M01

Date: 10-Jan-2022

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TOWER SEMICONDUCTOR LTD.  
20 SHAUL AMOR ST. MIGDAL HAEMEK ISRAEL

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

Sample Submitted By : TOWER SEMICONDUCTOR LTD.  
Sample Name : SILICON WAFERS  
Style/Item No. : 0.13μ 8" TOWER SEMICONDUCTOR MH FAB2

=====  
Sample Receiving Date : 27-Dec-2021  
Testing Period : 27-Dec-2021 to 05-Jan-2022

**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.

**Conclusion** : (1) Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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



PIN CODE: 64605BD5

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## Test Part Description

No.1 : SILICON WAFERS - ETR21C05342

No.2 : SILICON WAFERS - ETR21C05348

## Test Result(s)

| Test Item(s)                                     | Method   | Unit  | MDL | Result |      | Limit |
|--|--|-------|-----|--------|------|-------|
|  |  |       |     | No.1   | No.2 |       |
| Cadmium (Cd) (CAS No.: 7440-43-9)                | With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.            | mg/kg | 2   | ---    | n.d. | 100   |
| Lead (Pb) (CAS No.: 7439-92-1)                   | With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.            | mg/kg | 2   | ---    | n.d. | 1000  |
| Mercury (Hg) (CAS No.: 7439-97-6)                | With reference to IEC 62321-4: 2013+AMD1: 2017, analysis was performed by ICP-OES. | mg/kg | 2   | ---    | n.d. | 1000  |
| Hexavalent Chromium Cr(VI) (CAS No.: 18540-29-9) | With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.           | mg/kg | 8   | ---    | n.d. | 1000  |
| 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. | 1000  |
| 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.   | 1000 |       |

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| Test Item(s)   | Method   | Unit  | MDL | Result |      | Limit |
|--|--|-------|-----|--------|------|-------|
|  |  |       |     | No.1   | No.2 |       |
| Butyl benzyl phthalate (BBP) (CAS No.: 85-68-7)  | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.  | mg/kg | 50  | ---    | n.d. | 1000  |
| Dibutyl phthalate (DBP) (CAS No.: 84-74-2)   | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.  | mg/kg | 50  | ---    | n.d. | 1000  |
| Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7)   | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.  | mg/kg | 50  | ---    | n.d. | 1000  |
| Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5)   | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.  | mg/kg | 50  | ---    | n.d. | 1000  |
| 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. | -     |
| Bis(2-methoxyethyl) phthalate (DMEP) (CAS No.: 117-82-8)   | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.  | mg/kg | 50  | ---    | n.d. | -     |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4)  | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.  | mg/kg | 50  | ---    | n.d. | -     |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)  | 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: 2008, analysis was performed by GC/MS.    | mg/kg | 5   | ---    | 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. | -     |

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| Test Item(s)  | Method  | Unit  | MDL | Result |      | Limit |
|---|---|-------|-----|--------|------|-------|
|   |   |       |     | No.1   | No.2 |       |
| 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: 2015, analysis was performed by GC/MS.                   | mg/kg | 50  | ---    | 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. | -     |
| 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. | -     |

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|---|---|-------|-----|--------|------|-------|
|   |   |       |     | No.1   | No.2 |       |
| 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. | -     |
| 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. | -     |

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| Test Item(s)                                 | Method  | Unit   | MDL   | Result |          | Limit |
|--|---|--|-------|--------|----------|-------|
|  |   |  |       | No.1   | No.2     |       |
| 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-xylydine (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-xylydine (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). | % (w/w)  | -     | ---    | Negative | -     |
| Amosite (CAS No.: 12172-73-5)                |   | % (w/w)  | -     | ---    | Negative | -     |
| Anthophyllite (CAS No.: 77536-67-5)          |   | % (w/w)  | -     | ---    | Negative | -     |
| Chrysotile (CAS No.: 12001-29-5)             |   | % (w/w)  | -     | ---    | Negative | -     |
| Crocidolite (CAS No.: 12001-28-4)            |   | % (w/w)  | -     | ---    | Negative | -     |
| Tremolite (CAS No.: 77536-68-6)              |   | % (w/w)  | -     | ---    | Negative | -     |
| 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.  |
| Polyvinyl chloride (PVC)                     | With reference to ASTM E1252: 2013, analysis was performed by FT-IR and Flame Test.   | **   | -     | ---    | Negative | -     |

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| Test Item(s)                      | Method   | Unit  | MDL | Result |      | Limit |
|-----------------------------------|--|-------|-----|--------|------|-------|
|                                   |  |       |     | No.1   | No.2 |       |
| <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. | -     |
| 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. | -     |

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| Test Item(s)                            | Method   | Unit  | MDL | Result |      | Limit |
|---|--|-------|-----|--------|------|-------|
|   |  |       |     | No.1   | No.2 |       |
| 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. | -     |

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20 SHAUL AMOR ST. MIGDAL HAEMEK ISRAEL

| Test Item(s)                   | Method   | Unit  | MDL | Result |      | Limit |
|--------------------------------|--|-------|-----|--------|------|-------|
|                                |  |       |     | No.1   | No.2 |       |
| 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. | -     |
| 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. | -     |

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20 SHAUL AMOR ST. MIGDAL HAEMEK ISRAEL

| Test Item(s)                  | Method   | Unit  | MDL | Result |      | Limit |
|-------------------------------|--|-------|-----|--------|------|-------|
|                               |  |       |     | No.1   | No.2 |       |
| 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. | -     |
| 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. | -     |

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20 SHAUL AMOR ST. MIGDAL HAEMEK ISRAEL

| Test Item(s)                    | Method   | Unit  | MDL | Result |      | Limit |
|---------------------------------|--|-------|-----|--------|------|-------|
|                                 |  |       |     | No.1   | No.2 |       |
| 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. | -     |
| Bromomethane (CAS No.: 74-83-9) | 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 |      | Limit |
|--|--|-------|-----|--------|------|-------|
|  |  |       |     | No.1   | No.2 |       |
| <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. | -     |
| 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. | -     |

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| Test Item(s)           | Method   | Unit  | MDL | Result |      | Limit |
|------------------------|--|-------|-----|--------|------|-------|
|                        |  |       |     | No.1   | No.2 |       |
| 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. | -     |
| 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. | -     |

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| Test Item(s)                            | Method   | Unit  | MDL | Result |      | Limit |
|---|--|-------|-----|--------|------|-------|
|   |  |       |     | No.1   | No.2 |       |
| 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 |      | Limit |
|--|--|-------|-----|--------|------|-------|
|  |  |       |     | No.1   | No.2 |       |
| <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. | -     |

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TOWER SEMICONDUCTOR LTD.  
20 SHAUL AMOR ST. MIGDAL HAEMEK ISRAEL

| Test Item(s)                                  | Method   | Unit  | MDL | Result |      | Limit |
|---|--|-------|-----|--------|------|-------|
|   |  |       |     | No.1   | No.2 |       |
| 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. | -     |
| 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. | -     |

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TOWER SEMICONDUCTOR LTD.  
20 SHAUL AMOR ST. MIGDAL HAEMEK ISRAEL

| Test Item(s)                              | Method   | Unit  | MDL | Result |      | Limit |
|---|--|-------|-----|--------|------|-------|
|   |  |       |     | No.1   | No.2 |       |
| 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. | -     |
| 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. | -     |

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20 SHAUL AMOR ST. MIGDAL HAEMEK ISRAEL

| Test Item(s)                                    | Method   | Unit  | MDL | Result |      | Limit |
|---|--|-------|-----|--------|------|-------|
|   |  |       |     | No.1   | No.2 |       |
| 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. | -     |

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20 SHAUL AMOR ST. MIGDAL HAEMEK ISRAEL

| Test Item(s)   | Method   | Unit  | MDL | Result |      | Limit |
|--|--|-------|-----|--------|------|-------|
|  |  |       |     | No.1   | No.2 |       |
| 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. | -     |
| Perfluorisobutene (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. | -     |
| Fluorine (F) (CAS No.: 14762-94-8)                       | With reference to BS EN 14582: 2016, analysis was performed by IC.     | mg/kg | 50  | ---    | n.d. | -     |
| 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  | ---    | n.d. | -     |

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TOWER SEMICONDUCTOR LTD.  
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| Test Item(s)   | Method   | Unit  | MDL   | Result |          | Limit |
|--|--|-------|-------|--------|----------|-------|
|  |  |       |       | No.1   | No.2     |       |
| Triphenyl tin (TPT)  | With reference to ISO 17353: 2004, analysis was performed by GC/FPD.                 | mg/kg | 0.03  | ---    | n.d.     | -     |
| Tributyl tin (TBT)   | 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.     | -     |
| Dibutyl tin (DBT)  | 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.     | -     |
| Hexabromobenzene (CAS No.: 87-82-1)                                      | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.               | mg/kg | 5     | ---    | n.d.     | -     |
| Brominated styrene   | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.               | mg/kg | 5     | ---    | n.d.     | -     |
| TBBP-A-bis (CAS No.: 21850-44-2)   | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.               | mg/kg | 5     | ---    | n.d.     | -     |
| Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)                        | With reference to RSTS-E&E-121, analysis was performed by LC/MS.                     | mg/kg | 10    | ---    | n.d.     | -     |
| Monomethyl dibromodiphenyl methane (DBBT) (CAS No.: 99688-47-8)          | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.               | mg/kg | 0.5   | ---    | n.d.     | -     |
| Monomethyl dichlorodiphenyl methane (Ugilec121) (CAS No.: 81161-70-8)    | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.               | mg/kg | 0.5   | ---    | n.d.     | -     |
| Monomethyl tetrachlorodiphenyl methane (Ugilec141) (CAS No.: 76253-60-6) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.               | mg/kg | 0.5   | ---    | n.d.     | -     |
| Red Phosphorus   | Analysis was performed by Pyrolyzer-GC/MS.   | **    | -     | ---    | Negative | -     |
| Uranium (U) (Radioactive element) (CAS No.: 7440-61-1)                   | With reference to US EPA 3052: 1996 & 6020B: 2014, analysis was performed by ICP-MS. | mg/kg | 1     | ---    | n.d.     | -     |

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| Test Item(s)  | Method  | Unit  | MDL   | Result |      | Limit |
|---|---|-------|-------|--------|------|-------|
|   |   |       |       | No.1   | No.2 |       |
| Thorium (Th) (Radioactive element)<br>(CAS No.: 7440-29-1)                  | With reference to US EPA 3052: 1996 & 6020B: 2014, analysis was performed by ICP-MS.    | mg/kg | 1     | ---    | n.d. | -     |
| Strontium (Sr) (Radioactive element)<br>(CAS No.: 7440-24-6)                | With reference to US EPA 3052: 1996 & 6020B: 2014, analysis was performed by ICP-MS.    | mg/kg | 1     | ---    | n.d. | -     |
| Caesium (Cs) (Radioactive element)<br>(CAS No.: 7440-46-2)                  | With reference to US EPA 3052: 1996 & 6020B: 2014, analysis was performed by ICP-MS.    | mg/kg | 1     | ---    | n.d. | -     |
| Perchlorate (CAS No.: 14797-73-0)   | Analysis was performed by IC.   | µg/g  | 0.006 | ---    | n.d. | -     |
| 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. | -     |
| 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. | -     |
| Diarsenic trioxide (As <sub>2</sub> O <sub>3</sub> ) (CAS No.: 1327-53-3)   | Calculated from the result of Arsenic.  | mg/kg | 2▲    | ---    | n.d. | -     |
| Diarsenic pentaoxide (As <sub>2</sub> O <sub>5</sub> ) (CAS No.: 1303-28-2) | Calculated from the result of Arsenic.  | 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. | -     |
| Boron (B) (CAS No.: 7440-42-8)  | 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     | ---    | 15.0 | -     |
| Cobalt dichloride (CoCl <sub>2</sub> ) (CAS No.: 7646-79-9)                 | Analysis was performed by ICP-OES, IC. Calculated from the results of Cobalt, Chlorine. | mg/kg | 50▲   | ---    | n.d. | -     |
| Tris(2-chloroethyl) phosphate (TCEP)<br>(CAS No.: 115-96-8)                 | 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 |      | Limit |
|--|---|-------|-----|--------|------|-------|
|  |   |       |     | No.1   | No.2 |       |
| 4-Tert-octylphenol (CAS No.: 140-66-9)           | With reference to US EPA 3550C: 2007, analysis was performed by LC/MS.  | mg/kg | 10  | ---    | n.d. | -     |
| N,N-Dimethylacetamide (DMAC) (CAS No.: 127-19-5) | With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.  | mg/kg | 10  | ---    | 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% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected ( Less than MDL)
4. "-" = Not Regulated
5. "---" = Not Conducted
6. \*\*= Qualitative analysis (No Unit)
7. Negative = Undetectable ; Positive = Detectable
8. 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".
9. PFOS and its salts including :  
CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.
10. ▲ : The MDL was evaluated for element / tested substance.

Conversion Formula :  $AX = A \times F$

| AX                           | A            | F      |
|------------------------------|--------------|--------|
| Diarsenic pentaoxide         | Arsenic      | 1.5339 |
| Diarsenic trioxide           | Arsenic      | 1.3203 |
| Bis(tributyltin)oxide (TBTO) | Tributyl Tin | 1.024  |

Parameter Conversion Table : [https://eecloud.sgs.com/Region\\_TW/DocDownload.aspx#otherDoc](https://eecloud.sgs.com/Region_TW/DocDownload.aspx#otherDoc)

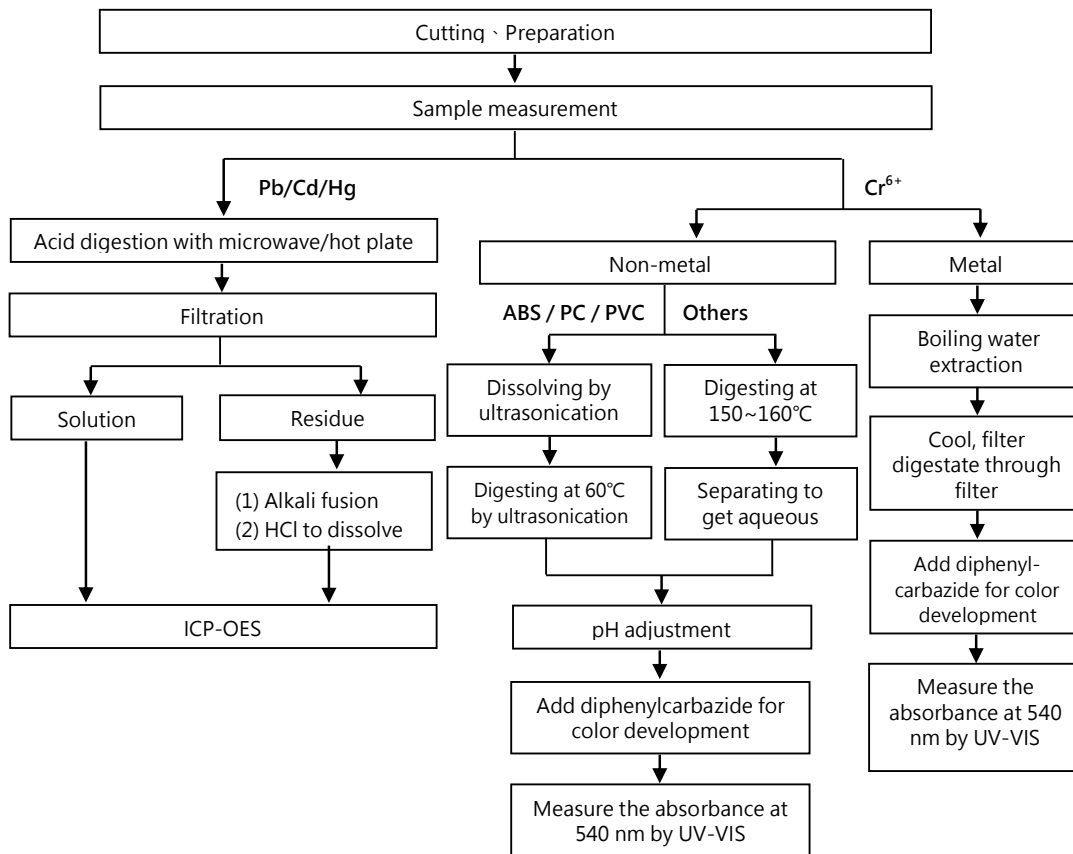
11. The statement of compliance conformity is based on comparison of testing results and limits.
12. 本報告為合併ETR21C05342及ETR21C05348之報告。(This report is combined with reports of ETR21C05342 and ETR21C05348.)

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## Analytical flow chart of Heavy Metal

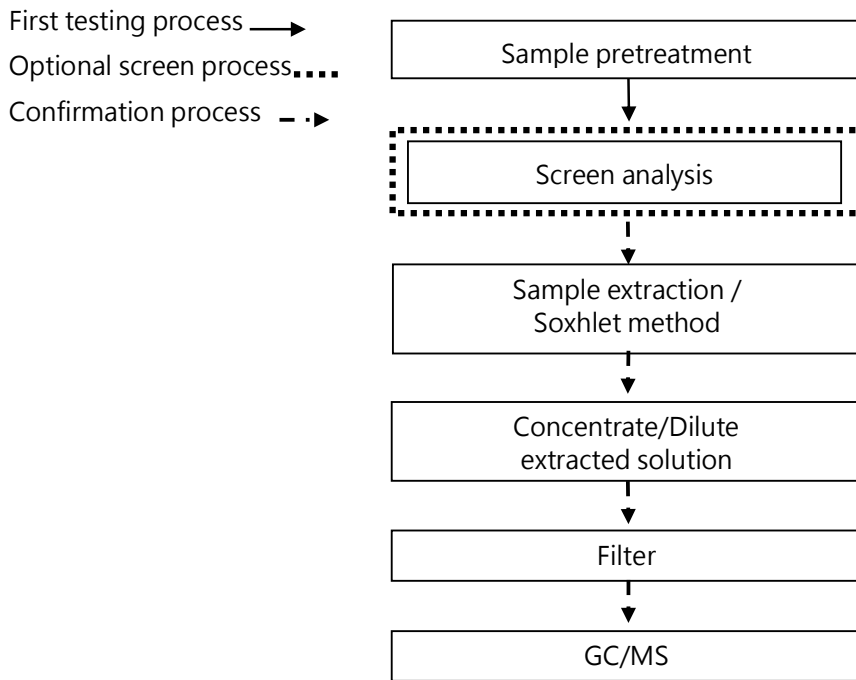
These samples were dissolved totally by pre-conditioning method according to below flow chart.

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



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### Analytical flow chart – PBBs / PBDEs



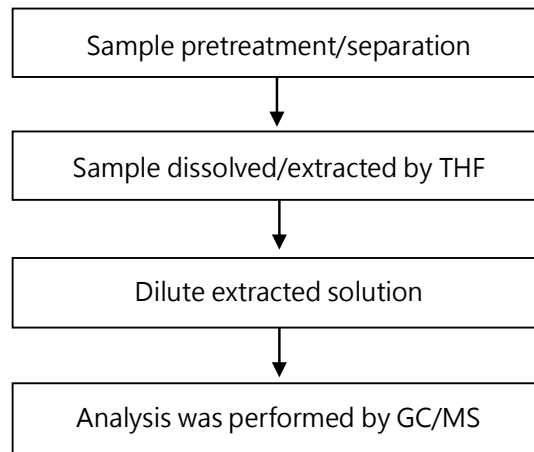
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## Analytical flow chart - Phthalate

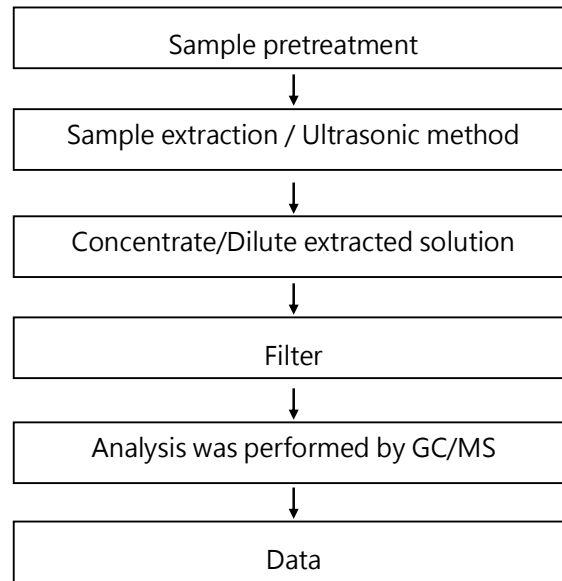
【Test method: IEC 62321-8】



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### Analytical flow chart - HBCDD

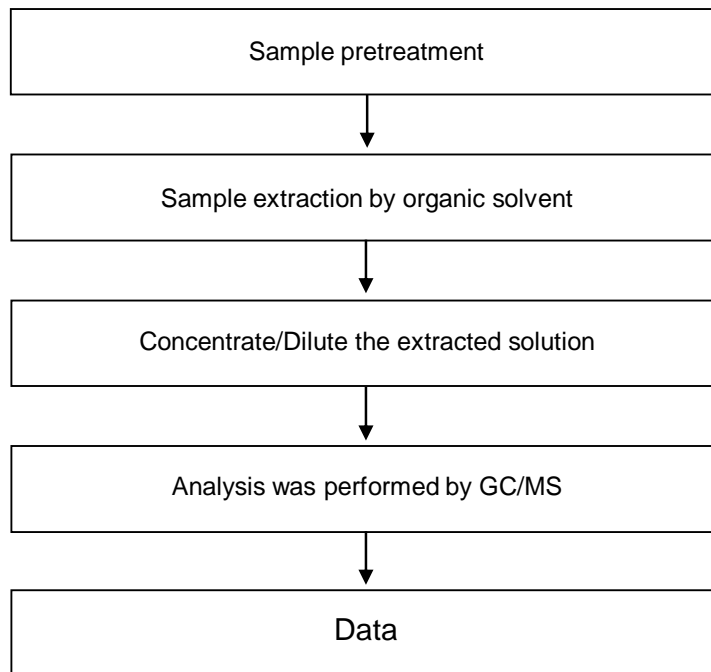


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### Analytical flow chart

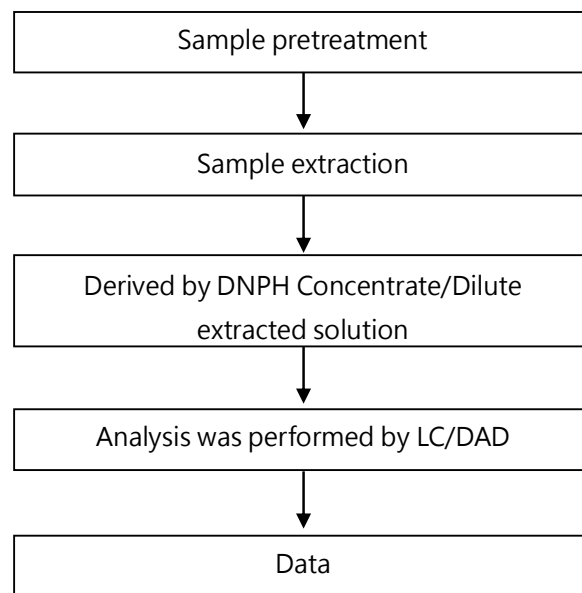
\* Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



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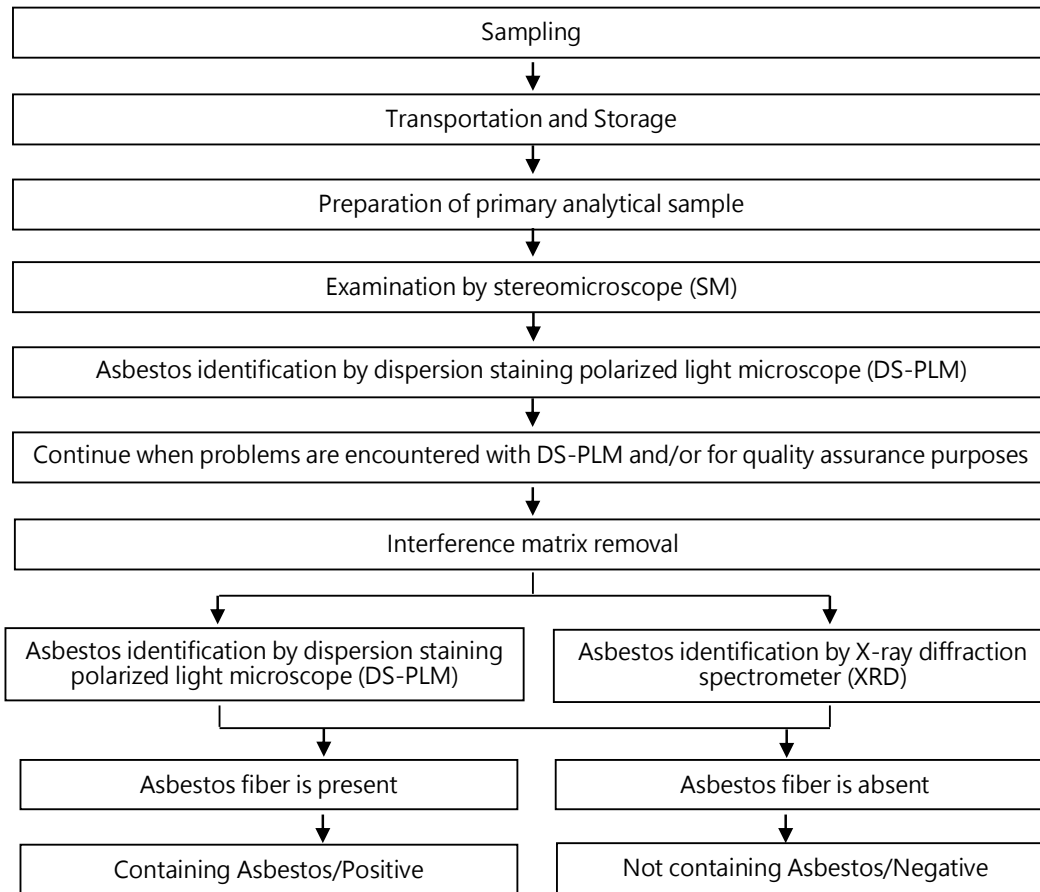
### Analytical flow chart - Formaldehyde



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## Analysis flow chart for determination of Asbestos

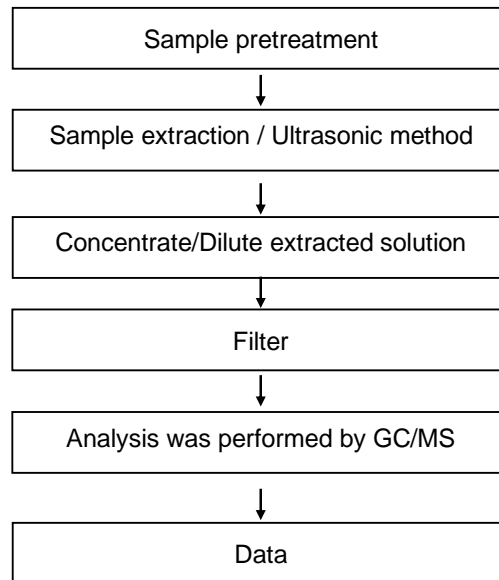
【Reference method: EPA 600/R-93/116】



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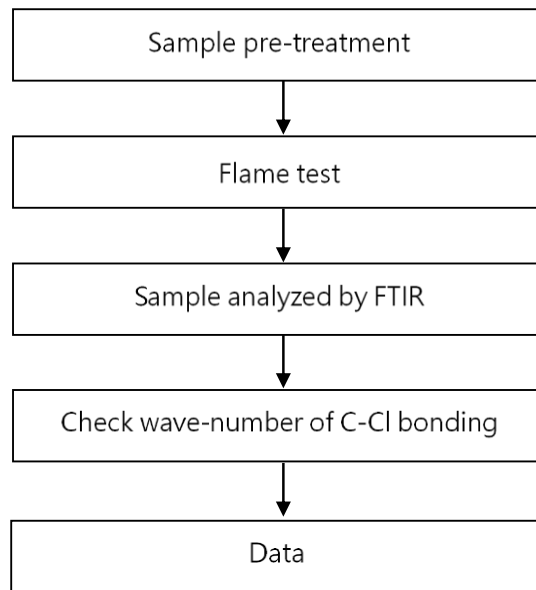
### Analytical flow chart - Dimethyl Fumarate



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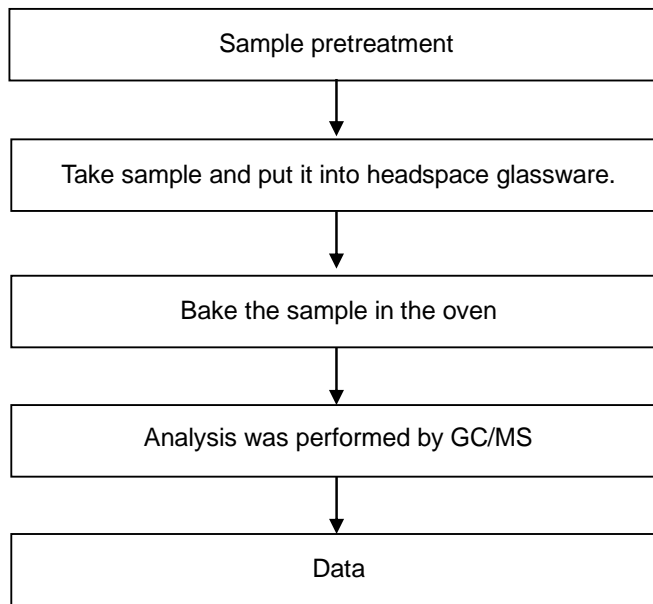
### Analysis flow chart - PVC



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

【Reference method : US EPA 5021A】

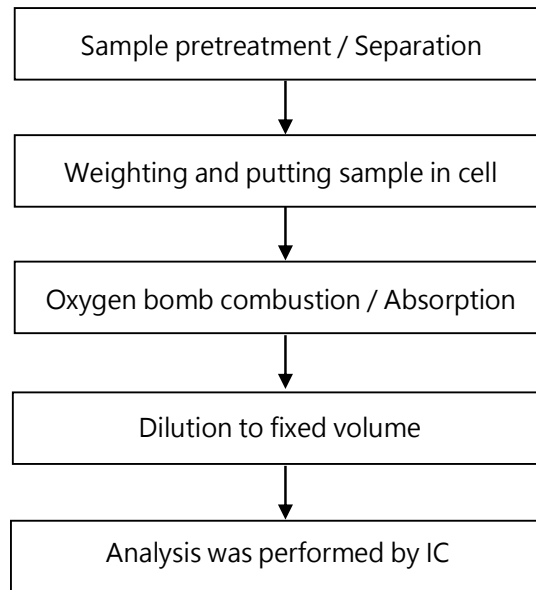


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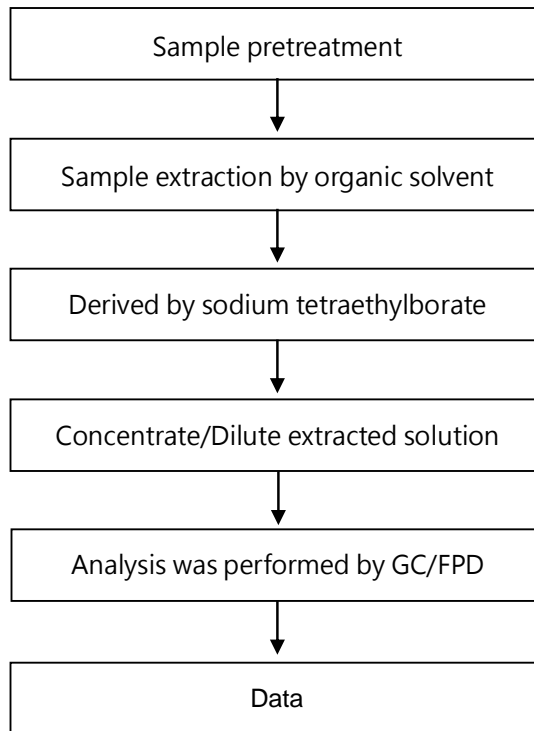
### Analytical flow chart - Halogen



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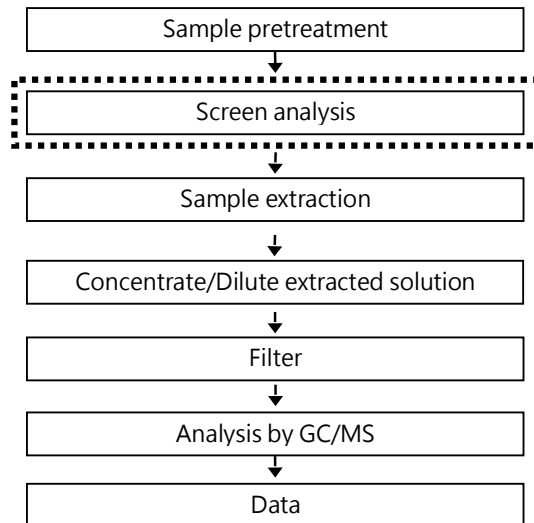
### Analytical flow chart - Organic-Tin



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### Analytical flow chart - TBBP-A-bis

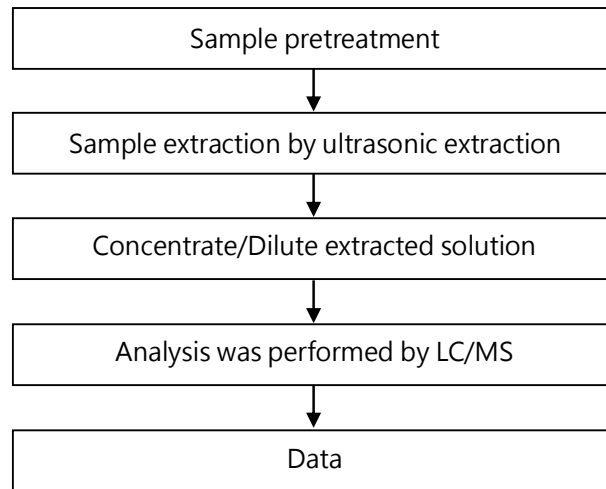
First testing process ———→  
 Optional screen process ······→  
 Confirmation process - · - · →



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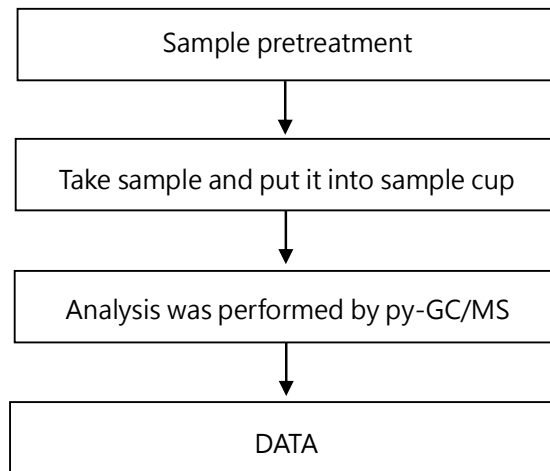
### Analytical flow chart - TBBP-A



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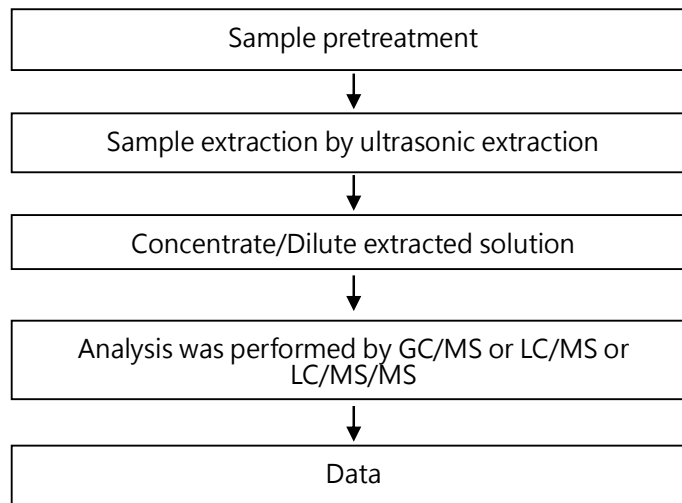
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### Analytical flow chart - Red phosphorus



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

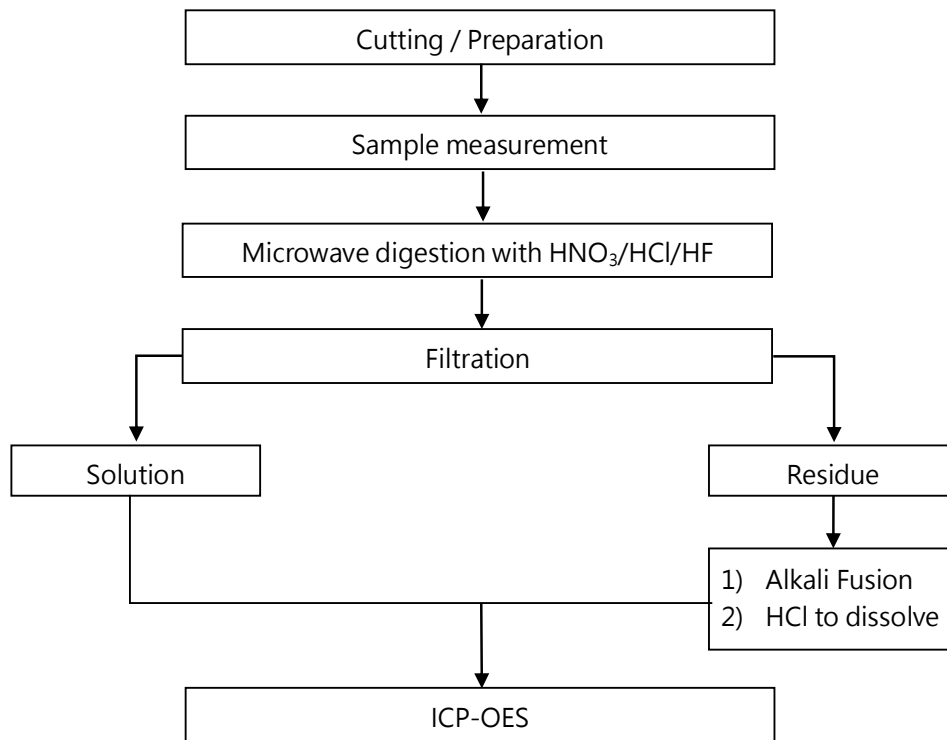


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### Analytical flow chart of Elements (Heavy Metal included)

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

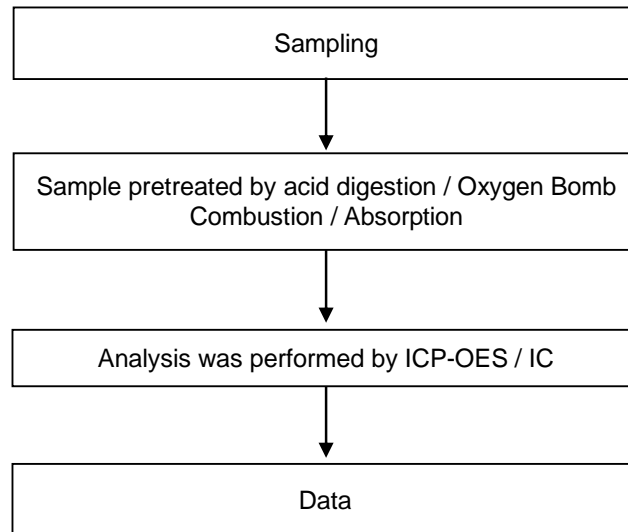
【Reference method : US EPA 3051A 、 US EPA 3052】



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

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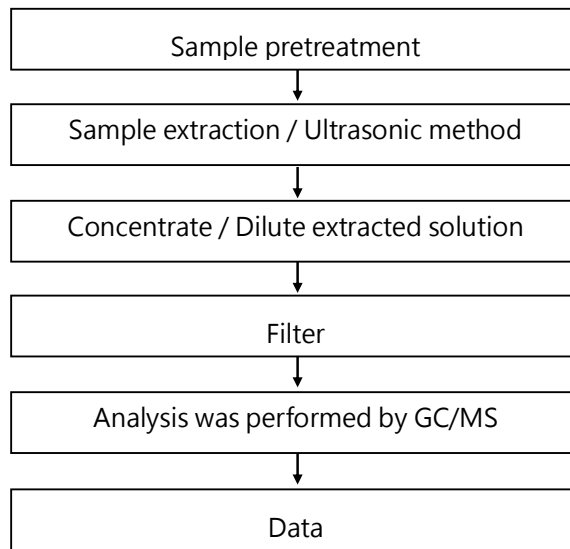
### Analytical flow chart - Cobalt dichloride



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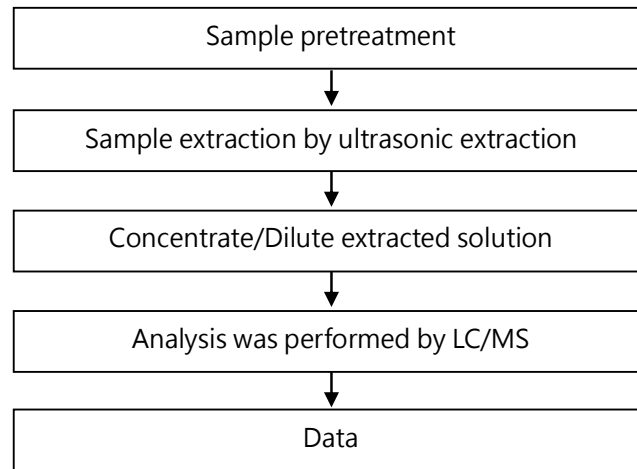
### Analytical flow chart - Organic phosphorus compounds



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### Analytical flow chart - NP、OP、4-t-OP、NPEO、OPEO



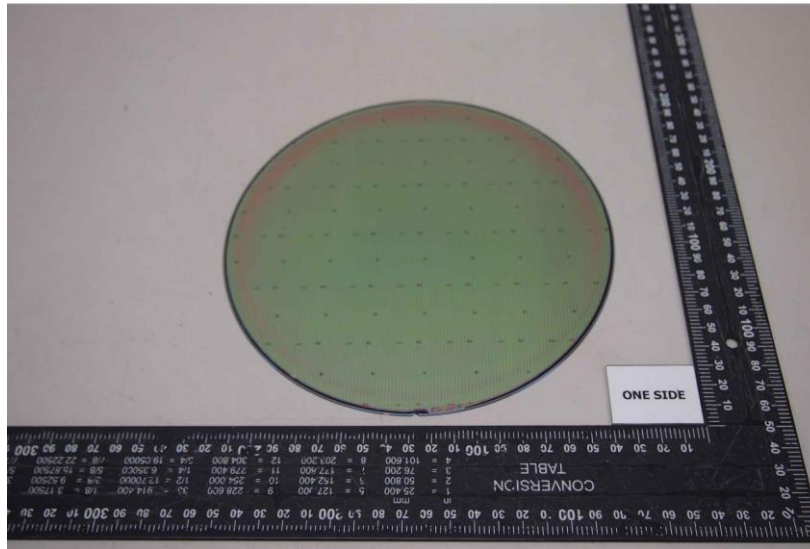
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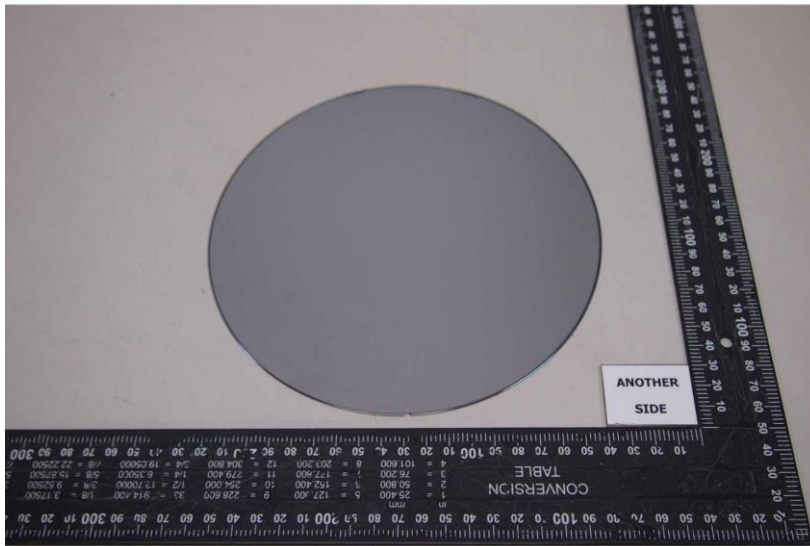
\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

No.1

### ETR21C05342



### ETR21C05342

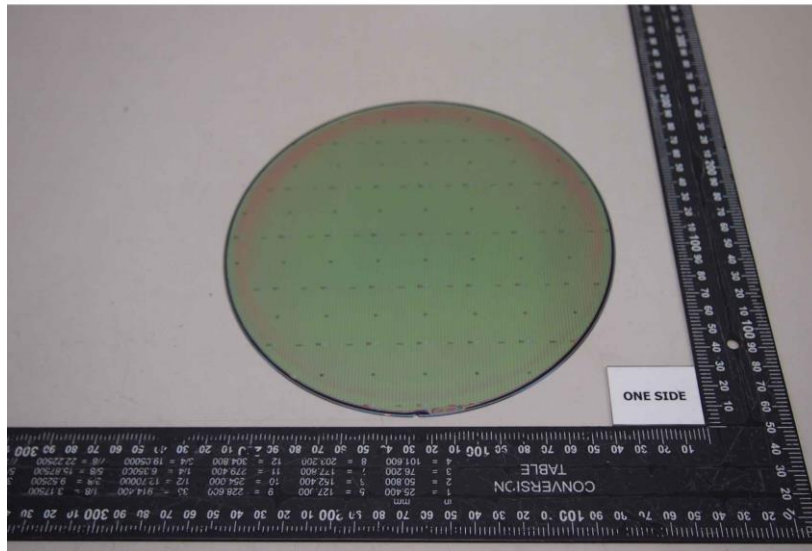


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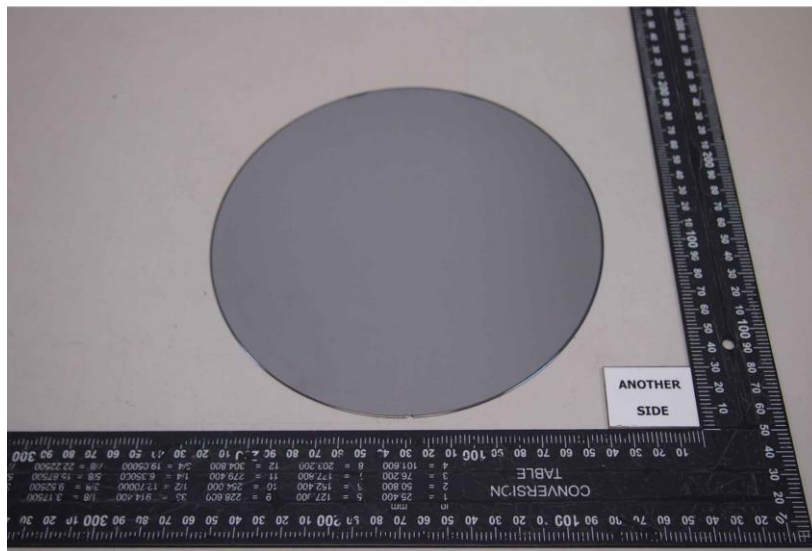
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No.2

### ETR21C05348



### ETR21C05348



**\*\* End of Report \*\***

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