

No.: ETR20A01710 Date: 21-Oct-2020

WAFERTECH LLC (TSMC F11) 5509 NW PARKER STREET, CAMAS, WA 98607, USA

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

Sample Submitted By : WAFERTECH LLC (TSMC F11)

Sample Name : TSMC FAB 11 ALUMINUM 8" FINISHED WAFER

Style/Item No. : WBU358.05

Other Info. : DURING SAMPLE PREPARATIONS, THE INTEGRITY OF THE IC WAFER PROVIDED

WAS FULLY DESTROYED.

Total Sample Weight

(WAFER)

: 53.4

Sample Receiving Date : 13-Oct-2020

Testing Period : 13-Oct-2020 to 20-Oct-2020

Test Requested : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending

Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs,

DBP, BBP, DEHP, DIBP contents in the submitted sample(s).

(2) As specified by client, to test PAHs and other item(s).

Test Results :

Please refer to following pages.

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 Te h SGS
Signed for and on behalt
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



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PIN CODE: 4BD4CE89

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#### **TEST PART DESCRIPTION**

No.1 : WAFER

#### Test Result(s)

| Test Item(s)                                     | Method  | Unit  | MDL | Result<br>No.1 | Limit |
|--|---|-------|-----|----------------|-------|
| 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+<br>AMD1: 2017, analysis was performed<br>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:<br>2017, analysis was performed by UV-<br>VIS.           | mg/kg | 8   | n.d.           | 1000  |
| Monobromobiphenyl                                |   | mg/kg | 5   | n.d.           | -     |
| Dibromobiphenyl                                  | ]   | mg/kg | 5   | n.d.           | -     |
| Tribromobiphenyl                                 | ]   | mg/kg | 5   | n.d.           | -     |
| Tetrabromobiphenyl                               | ]   | mg/kg | 5   | n.d.           | -     |
| Pentabromobiphenyl                               | 1   | mg/kg | 5   | n.d.           | =     |
| Hexabromobiphenyl                                | 1   | 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.           | -     |
| Sum of PBBs                                      | With reference to IEC 62321-6: 2015,  | mg/kg | -   | n.d.           | 1000  |
| Monobromodiphenyl ether                          | analysis was performed by GC/MS.  | 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.           | =     |
| Sum of PBDEs                                     |   | mg/kg | -   | n.d.           | 1000  |

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| Test Item(s)   | Method   | Unit     | MDL | Result    | Limit |
|--|--|----------|-----|-----------|-------|
|  |  |          |     | No.1      |       |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- 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.      | -     |
| Di-(2-ethylhexyl) phthalate (DEHP)<br>(CAS No.: 117-81-7)  |  | mg/kg    | 50  | n.d.      | 1000  |
| Dibutyl phthalate (DBP) (CAS No.: 84-74-2)   |  | mg/kg    | 50  | n.d.      | 1000  |
| Butyl benzyl phthalate (BBP) (CAS No.: 85-68-7)  |  | 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  |
| Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)  |  | mg/kg    | 50  | n.d.      | -     |
| Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)  |  | mg/kg    | 50  | n.d.      | -     |
| Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)  |  | mg/kg    | 50  | n.d.      | -     |
| Fluorine (F) (CAS No.: 14762-94-8)   | With reference to BS EN 14582: 2016, analysis was performed by IC.           | mg/kg    | 50  | 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.      | -     |
| lodine (I) (CAS No.: 14362-44-8)   | With reference to BS EN 14582: 2016, analysis was performed by IC.           | mg/kg    | 50  | n.d.      | -     |
| Radioactive substances   | Geiger counter   | μSv/hour | -   | Negative* | -     |
| Chlorofluorocarbons (CFCs)   |  |          |     |           |       |
| CFC-13 (CAS No.: 75-72-9)  | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg    | 1   | n.d.      | -     |
| CFC-111 (CAS No.: 354-56-3)  | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg    | 1   | n.d.      | -     |

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

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|----------------------------------|--|-------|-----|----------------|-------|
| 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.           | -     |
| Hydrochlorofluorocarbons (HCFCs) |  |       |     |                |       |
| 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:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |

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

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

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| Test Item(s)                    | Method   | Unit  | MDL | Result | Limit |
|---------------------------------|--|-------|-----|--------|-------|
|                                 |  |       |     | No.1   |       |
| Halons                          |  |       |     |        |       |
| 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.   | ı     |
| 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.   | -     |
| Hydrobromofluorocarbons (HBFCs) |  |       |     |        |       |
| 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.   | -     |

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WAFERTECH LLC (TSMC F11) 5509 NW PARKER STREET, CAMAS, WA 98607, USA

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

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WAFERTECH LLC (TSMC F11) 5509 NW PARKER STREET, CAMAS, WA 98607, USA

| Test Item(s)                                | Method   | Unit  | MDL | Result<br>No.1 | Limit |
|---|--|-------|-----|----------------|-------|
| HBFC-31B1 (CH2FBr) (CAS No.: 373-52-4)      | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |
| HBFC-22B1 (CHF2Br) (CAS No.: 1511-62-2)     | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |
| HBFC-21B2 (CHFBr2) (CAS No.: 1868-<br>53-7) | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | 1     |
| Hydrofluorocarbon (HFCs)                    |  |       |     |                |       |
| HFC-23 (CHF3) (CAS No.: 75-46-7)            | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |
| HFC-32 (CH2F2) (CAS No.: 75-10-5)           | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>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.           | 1     |
| HFC-134 (C2H2F4)                            | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |
| HFC-134a (CH2FCF3) (CAS No.: 811-<br>97-2)  | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |
| HFC-143 (CH3F3)                             | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |

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| Test Item(s)                                 | Method   | Unit  | MDL | Result | Limit |
|--|--|-------|-----|--------|-------|
|  |  |       |     | No.1   |       |
| HFC-143a (CH3F3)                             | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.   | -     |
| HFC-152a (C2H4F2) (CAS No.: 75-37-6)         | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.   | -     |
| HFC-227ea (C3HF7) (CAS No.: 431-89-<br>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:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.   | -     |
| HFC-245ca (C3H3F5)                           | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.   | -     |
| HFC-245fa (C3H3F5)                           | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.   | -     |
| HFC-365mfc (C4H5F5)                          | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.   | -     |
| HFC-236ea (C3H2F6) (CAS No.: 431-63-<br>0)   | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.   | -     |
| Perfluorocarbon (PFCs)                       |  |       |     |        |       |
| Perfluorohexane (CAS No.: 355-42-0)          | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.   | -     |
| 2-Perfluoromethylpentane (CAS No.: 355-04-4) | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.   | -     |
| Perfluoro-n-pentane (CAS No.: 678-26-2)      | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.   | -     |

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| Test Item(s)   | Method   | Unit  | MDL | Result<br>No.1 | Limit |
|--|--|-------|-----|----------------|-------|
| 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.           | -     |
| 1,4-dihydrooctafluorobutane (CAS No.: 377-36-6)          | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |
| Perfluorisobutene (CAS No.: 382-21-8)                    | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |
| Freon C318 (CAS No.: 115-25-3)                           | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |
| Decafluorobutane (CAS No.: 355-25-9)                     | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |
| Freon 218 (CAS No.: 76-19-7)                             | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |
| Fluorocarbon 116 (CAS No.: 76-16-4)                      | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |
| F14 (CAS No.: 75-73-0)                                   | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |
| Perfluor-1-butene (CAS No.: 357-26-6)                    | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |
| Chlorinate hydrocarbon (CHCs)                            |  |       |     |                |       |
| trans-1,3-Dichloropropene (CAS No.: 10061-02-6)          | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |
| trans-1,2-Dichloroethene (CAS No.:<br>156-60-5)          | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg | 1   | n.d.           | -     |

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WAFERTECH LLC (TSMC F11) 5509 NW PARKER STREET, CAMAS, WA 98607, USA

| Test Item(s)   | Method   | Unit                            | Jnit MDL | Result | Limit |  |
|--|--|---------------------------------|----------|--------|-------|--|
|  |  |                                 |          | No.1   |       |  |
| Dichloromethane, Methylene chloride (CAS No.: 75-09-2) | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg                           | 1        | n.d.   | -     |  |
| Hexachlorobutadiene (CAS No.: 87-68-3)                 | 2014, analysis was performed by GC/MS.                                       |                                 | 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.       | 2014, analysis was performed by |          | n.d.   | -     |  |
| cis-1,2-Dichloroethene (CAS No.: 156-59-2)             | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg                           | 1        | n.d.   | -     |  |
| Chloromethane (CAS No.: 74-87-3)                       | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg                           | 1        | n.d.   | -     |  |
| Carbon tetrachloride (CAS No.: 56-23-5)                | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg                           | 1        | n.d.   | -     |  |
| 2,2-Dichloropropane (CAS No.: 594-20-7)                | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg                           | 1        | n.d.   | -     |  |
| 1,2-Dichloroethane (CAS No.: 107-06-<br>2)             | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg                           | 1        | n.d.   | -     |  |
| 1,1-Dichloropropene (CAS No.: 563-58-6)                | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg                           | 1        | n.d.   | -     |  |
| 1,2,3-Trichloropropane (CAS No.: 96-<br>18-4)          | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg                           | 1        | n.d.   | -     |  |
| Chloroform (CAS No.: 67-66-3)                          | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg                           | 1        | n.d.   | -     |  |
| 1,2-Dichloropropane (CAS No.: 78-87-5)                 | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS. | mg/kg                           | 1        | n.d.   | -     |  |

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| Test Item(s)                                  | Method   | Unit  | Jnit MDL | Result | Limit |  |
|---|--|-------|----------|--------|-------|--|
|   |  |       |          | No.1   |       |  |
| 1,1,1,2-Tetrachloroethane (CAS No.: 630-20-6) | With reference to US EPA 5021A: mg/kg 2014, analysis was performed by GC/MS.   |       | 1        | n.d.   | -     |  |
| 1,1,1-Trichloroethane (CAS No.: 71-55-6)      | With reference to US EPA 5021A: mg/kg 1 2014, analysis was performed by GC/MS. |       | 1        | n.d.   | -     |  |
| 1,1,2-Trichloroethane (CAS No.: 79-00-5)      | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS.   | mg/kg | 1        | n.d.   | -     |  |
| 1,1,2,2-Tetrachloroethane (CAS No.: 79-34-5)  | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS.   | mg/kg | 1        | n.d.   | -     |  |
| 1,1-Dichloroethylene (CAS No.: 75-35-4)       | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS.   | mg/kg | 1        | n.d.   | -     |  |
| 1,1-Dichloroethane (CAS No.: 75-34-3)         | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS.   | mg/kg | 1        | n.d.   | -     |  |
| Chloroethane (CAS No.: 75-00-3)               | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS.   | mg/kg | 1        | n.d.   | -     |  |
| Tetrachloroethene (CAS No.: 127-18-4)         | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS.   | mg/kg | 1        | n.d.   | -     |  |
| Trichloroethylene (CAS No.: 79-01-6)          | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS.   | mg/kg | 1        | n.d.   | -     |  |
| 1,3-Dichloropropane (CAS No.: 142-28-9)       | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS.   | mg/kg | 1        | n.d.   | -     |  |
| Bromochloromethan (CAS No.: 74-97-5)          | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS.   | mg/kg | 1        | n.d.   | -     |  |
| Sulfur hexafluoride (CAS No.: 2551-62-4)      | With reference to US EPA 5021A:<br>2014, analysis was performed by<br>GC/MS.   | mg/kg | 1        | n.d.   | -     |  |

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No.: ETR20A01710 Date: 21-Oct-2020

WAFERTECH LLC (TSMC F11) 5509 NW PARKER STREET, CAMAS, WA 98607, USA

| Test Item(s)                          | Method                               | Unit     | MDL | Result   | Limit |  |
|---------------------------------------|--------------------------------------|----------|-----|----------|-------|--|
|                                       |                                      |          |     | No.1     |       |  |
| Antimony (Sb) (CAS No.: 7440-36-0)    | With reference to US EPA 3052: 1996, | mg/kg    | 2   | n.d.     | -     |  |
|                                       | analysis was performed by ICP-OES.   |          |     |          |       |  |
| Phosphorus (P) (CAS No.: 7723-14-0)   | With reference to US EPA 3052: 1996, | mg/kg    | 2   | n.d.     | -     |  |
|                                       | analysis was performed by ICP-OES.   |          |     |          |       |  |
| Beryllium (Be) (CAS No.: 7440-41-7)   | With reference to US EPA 3052: 1996, | mg/kg    | 2   | n.d.     | -     |  |
|                                       | analysis was performed by ICP-OES.   |          |     |          |       |  |
| Arsenic (As) (CAS No.: 7440-38-2)     | With reference to US EPA 3052: 1996, | mg/kg    | 2   | n.d.     | -     |  |
|                                       | analysis was performed by ICP-OES.   |          |     |          |       |  |
| Ethylene glycol monomethyl ether      | With reference to US EPA 3550C:      | mg/kg    | 10  | n.d.     | -     |  |
| (CAS No.: 109-86-4)                   | 2007, analysis was performed by      |          |     |          |       |  |
|                                       | GC/MS.                               |          |     |          |       |  |
| 2-Ethoxyethanol (CAS No.: 110-80-5)   | With reference to US EPA 3550C:      | mg/kg    | 10  | n.d.     | -     |  |
|                                       | 2007, analysis was performed by      |          |     |          |       |  |
|                                       | GC/MS.                               |          |     |          |       |  |
| Ethylene glycol monomethyl ether      | With reference to US EPA 3550C:      | mg/kg    | 10  | n.d.     | -     |  |
| acetate (CAS No.: 110-49-6)           | 2007, analysis was performed by      |          |     |          |       |  |
| , ,                                   | GC/MS.                               |          |     |          |       |  |
| 2-methoxyethyl acetate (CAS No.: 111- | With reference to US EPA 3550C:      | mg/kg    | 10  | n.d.     | -     |  |
| 15-9)                                 | 2007, analysis was performed by      |          |     |          |       |  |
|                                       | GC/MS.                               |          |     |          |       |  |
| Diethylene glycol dimethyl ether      | With reference to US EPA 3550C:      | mg/kg 10 | 10  | n.d.     | -     |  |
| (DEGDME) (CAS No.: 111-96-6)          | 2007, analysis was performed by      |          |     |          |       |  |
|                                       | GC/MS.                               |          |     |          |       |  |
| Ethylene glycol monobutyl ether (CAS  | With reference to US EPA 3550C:      | mg/kg    | 10  | n.d.     | -     |  |
| No.: 111-76-2)                        | 2007, analysis was performed by      | J. J.    |     |          |       |  |
| ,                                     | GC/MS.                               |          |     |          |       |  |
| Diethylene glycol monomethyl ether    | With reference to US EPA 3550C:      | mg/kg    | 10  | n.d.     | _     |  |
| (CAS No.: 111-77-3)                   | 2007, analysis was performed by      | J, J     |     |          |       |  |
|                                       | GC/MS.                               |          |     |          |       |  |
| Asbestos                              |                                      |          |     |          |       |  |
| Actinolite (CAS No.: 77536-66-4)      | With reference to EPA 600/R-93/116:  | %        | -   | Negative | -     |  |
| Amosite (CAS No.: 12172-73-5)         | 1993, analysis was performed by      | %        | -   | Negative | -     |  |
| Anthophyllite (CAS No.: 77536-67-5)   | Stereo Microscope (SM), Dispersion   | %        | -   | Negative | -     |  |
| Chrysotile (CAS No.: 12001-29-5)      | Staining Polarized Light Microscope  | %        | -   | Negative | -     |  |
| Crocidolite (CAS No.: 12001-28-4)     | (DS-PLM) and X-ray Diffraction       | %        | -   | Negative | -     |  |
| Tremolite (CAS No.: 77536-68-6)       | Spectrometer (XRD).                  | %        | -   | Negative | -     |  |

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No.: ETR20A01710 Date: 21-Oct-2020

WAFERTECH LLC (TSMC F11) 5509 NW PARKER STREET, CAMAS, WA 98607, USA

| Test Item(s)                                    | Method   | Unit  | MDL | Result | Limit |
|---|--|-------|-----|--------|-------|
|   |  |       |     | No.1   | '     |
| Polycyclic Aromatic Hydrocarbons (PAHs)         |  |       |     |        |       |
| Benzo[a]pyrene (CAS No.: 50-32-8)               |  | mg/kg | 0.2 | n.d.   | -     |
| Benzo[e]pyrene (CAS No.: 192-97-2)              |  | mg/kg | 0.2 | n.d.   | -     |
| Benzo[a]anthracene (CAS No.: 56-55-3)           |  | mg/kg | 0.2 | n.d.   | -     |
| Benzo[b]fluoranthene (CAS No.: 205-<br>99-2)    |  | mg/kg | 0.2 | n.d.   | -     |
| Benzo[j]fluoranthene (CAS No.: 205-82-3)        |  | mg/kg | 0.2 | n.d.   | -     |
| Benzo[k]fluoranthene (CAS No.: 207-<br>08-9)    |  | mg/kg | 0.2 | n.d.   | -     |
| Chrysene (CAS No.: 218-01-9)                    | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\                                       | mg/kg | 0.2 | n.d.   | -     |
| Dibenzo[a,h]anthracene (CAS No.: 53-70-3)       | With reference to AfPS GS 2019:01 PAK, analysis was performed by             | mg/kg | 0.2 | n.d.   | -     |
| Benzo[g,h,i]perylene (CAS No.: 191-24-<br>2)    | GC/MS.   | mg/kg | 0.2 | n.d.   | =     |
| Indeno[1,2,3-c,d]pyrene (CAS No.: 193-<br>39-5) |  | mg/kg | 0.2 | n.d.   | -     |
| Anthracene (CAS No.: 120-12-7)                  |  | mg/kg | 0.2 | n.d.   | -     |
| Fluoranthene (CAS No.: 206-44-0)                |  | mg/kg | 0.2 | n.d.   | -     |
| Phenanthrene (CAS No.: 85-01-8)                 |  | mg/kg | 0.2 | n.d.   | -     |
| Pyrene (CAS No.: 129-00-0)                      |  | mg/kg | 0.2 | n.d.   | -     |
| Naphthalene (CAS No.: 91-20-3)                  |  | mg/kg | 0.2 | n.d.   | -     |
| Sum of 15 PAHs                                  |  | mg/kg | -   | n.d.   | Δ     |
| Polychlorinated biphenyls (PCBs)                | With reference to US EPA 3550C:<br>2007, analysis was performed by<br>GC/MS. | mg/kg | 0.5 | n.d.   | -     |
| Polychlorinated naphthalene (PCNs)              | With reference to US EPA 3550C:<br>2007, analysis was performed by<br>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.   | -     |

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WAFERTECH LLC (TSMC F11) 5509 NW PARKER STREET, CAMAS, WA 98607, USA

| Test Item(s)  | Method   | Unit    | MDL | Result | Limit |
|---|--|---------|-----|--------|-------|
|   |  |         |     | No.1   |       |
| Short Chain Chlorinated Paraffins(C10-C13) (SCCP) (CAS No.: 85535-84-8) | With reference to US EPA 3550C:<br>2007, analysis was performed by<br>GC/MS. | mg/kg   | 100 | n.d.   | -     |
| AZO   |  |         |     |        |       |
| 2,4,5-trimethylaniline (CAS No.: 137-<br>17-7)                          | With reference to LFGB 82.02-2: 2013, analysis was performed by GC/MS.       | mg/kg   | 3   | n.d.   | -     |
| 2,4-diaminoanisole (CAS No.: 615-05-4)                                  | With reference to LFGB 82.02-2: 2013, analysis was performed by GC/MS.       | mg/kg   | 3   | n.d.   | -     |
| 2,4-diaminotoluene (CAS No.: 95-80-7)                                   | With reference to LFGB 82.02-2: 2013, analysis was performed by GC/MS.       | mg/kg   | 3   | n.d.   | -     |
| 2,4-xylidine (CAS No.: 95-68-1)   | With reference to LFGB 82.02-2: 2013, analysis was performed by GC/MS.       | mg/kg   | 3   | n.d.   | -     |
| 2,6-xylidine (CAS No.: 87-62-7)   | With reference to LFGB 82.02-2: 2013, analysis was performed by GC/MS.       | mg/kg   | 3   | n.d.   | -     |
| 2-naphthylamine (CAS No.: 91-59-8)                                      | With reference to LFGB 82.02-2: 2013, mg/kg analysis was performed by GC/MS. |         | 3   | n.d.   | -     |
| 3,3'-dichlorobenzidine (CAS No.: 91-<br>94-1)                           | With reference to LFGB 82.02-2: 2013, mg/kg analysis was performed by GC/MS. |         | 3   | n.d.   | -     |
| 3,3'-dimethoxybenzidine (CAS No.: 119-90-4)                             | With reference to LFGB 82.02-2: 2013, analysis was performed by GC/MS.       | mg/kg 3 |     | n.d.   | -     |
| 3,3'-dimethyl-4,4'-<br>diaminodiphenylmethane (CAS No.:<br>838-88-0)    | With reference to LFGB 82.02-2: 2013, analysis was performed by GC/MS.       | mg/kg   | 3   | n.d.   | -     |
| 3,3'-dimethylbenzidine (CAS No.: 119-<br>93-7)                          | With reference to LFGB 82.02-2: 2013, analysis was performed by GC/MS.       | mg/kg   | 3   | n.d.   | -     |
| 4,4'-diaminodiphenylmethane (MDA)<br>(CAS No.: 101-77-9)                | With reference to LFGB 82.02-2: 2013, analysis was performed by GC/MS.       | mg/kg   | 3   | n.d.   | -     |
| 4,4'-methylene-bis-(2-chloroaniline)<br>(CAS No.: 101-14-4)             | With reference to LFGB 82.02-2: 2013, analysis was performed by GC/MS.       | mg/kg   | 3   | n.d.   | -     |
| 4,4'-oxydianiline (CAS No.: 101-80-4)                                   | With reference to LFGB 82.02-2: 2013, mg/kg analysis was performed by GC/MS. |         | 3   | n.d.   | -     |
| 4,4'-thiodianiline (CAS No.: 139-65-1)                                  | With reference to LFGB 82.02-2: 2013, mg/kg analysis was performed by GC/MS. |         | 3   | n.d.   | -     |
| 4-aminoazobenzene (CAS No.: 60-09-<br>3)                                | With reference to LFGB 82.02-2: 2013, analysis was performed by GC/MS.       | mg/kg   | 3   | n.d.   | -     |

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No.: ETR20A01710 Date: 21-Oct-2020

WAFERTECH LLC (TSMC F11) 5509 NW PARKER STREET, CAMAS, WA 98607, USA

| Test Item(s)                            | Method                                 | Unit         | MDL             | Result | Limit |  |
|---|--|--------------|-----------------|--------|-------|--|
| 1 1 1 1 (646.1) 00 67.1)                | W                                      | 4            | 2               | No.1   |       |  |
| 4-aminodiphenyl (CAS No.: 92-67-1)      | With reference to LFGB 82.02-2: 2013,  | mg/kg        | 3               | n.d.   | -     |  |
|   | analysis was performed by GC/MS.       |              |                 |        |       |  |
| 4-chloroaniline (CAS No.: 106-47-8)     | With reference to LFGB 82.02-2: 2013,  | mg/kg        | 3               | n.d.   | -     |  |
|   | analysis was performed by GC/MS.       |              |                 |        |       |  |
| 4-chloro-o-toluidine (CAS No.: 95-69-   | With reference to LFGB 82.02-2: 2013,  | mg/kg        | 3               | n.d.   | -     |  |
| 2)                                      | analysis was performed by GC/MS.       |              |                 |        |       |  |
| 2-methoxy-5-methylaniline (CAS No.:     | With reference to LFGB 82.02-2: 2013,  | mg/kg        | 3               | n.d.   | -     |  |
| 120-71-8)                               | analysis was performed by GC/MS.       |              |                 |        |       |  |
| 5-nitro-o-toluidine (CAS No.: 99-55-8)  | With reference to LFGB 82.02-2: 2013,  | mg/kg        | 3               | n.d.   | -     |  |
|   | analysis was performed by GC/MS.       |              |                 |        |       |  |
| Benzidine (CAS No.: 92-87-5)            | With reference to LFGB 82.02-2: 2013,  | mg/kg        | 3               | n.d.   | -     |  |
| , ,                                     | analysis was performed by GC/MS.       | J. J.        |                 |        |       |  |
| o-aminoazotoluene (CAS No.: 97-56-3)    | With reference to LFGB 82.02-2: 2013,  | mg/kg        | 3               | n.d.   | _     |  |
|   | analysis was performed by GC/MS.       |              |                 |        |       |  |
| o-anisidine (CAS No.: 90-04-0)          | With reference to LFGB 82.02-2: 2013,  | mg/kg        | 3               | n.d.   | _     |  |
|   | analysis was performed by GC/MS.       | 1119/119     |                 | 11.0.  |       |  |
| o-toluidine (CAS No.: 95-53-4)          | With reference to LFGB 82.02-2: 2013,  | mg/kg        | 3               | n.d.   |       |  |
| (c, 13 1 vo.: 33 33 1)                  | analysis was performed by GC/MS.       | mg/kg        | 3               | 11.4.  |       |  |
| PFOS and its salts (CAS No.: 1763-23-1  | With reference to CEN/TS 15968:        | mg/kg 0.01   | 0.01 n.d        | n.d.   |       |  |
| and its salts)                          | 2010, analysis was performed by        | 111g/kg 0.01 |                 | 11.d.  | _     |  |
| and its saits)                          | LC/MS/MS.                              |              |                 |        |       |  |
| PFOA and its salts (CAS No.: 335-67-1   | With reference to CEN/TS 15968:        | mg/kg 0.01   | mg/kg 0.01 n.d. | -      |       |  |
| and its salts)                          | 2010, analysis was performed by        |              |                 |        |       |  |
|   | LC/MS/MS.                              |              |                 |        |       |  |
| Tributyl tin (TBT)                      | With reference to ISO 17353: 2004,     | mg/kg        | 0.03            | n.d.   | -     |  |
|   | analysis was performed by GC/FPD.      | 3 3          |                 |        |       |  |
| Triphenyl tin (TPhT)                    | With reference to ISO 17353: 2004,     | mg/kg        | 0.03            | n.d.   | -     |  |
| ,                                       | analysis was performed by GC/FPD.      | <i>J, J</i>  |                 |        |       |  |
| Dibutyl tin (DBT)                       | With reference to ISO 17353: 2004,     | mg/kg        | 0.03            | n.d.   | _     |  |
|   | analysis was performed by GC/FPD.      | 9,9          | 0.00            |        |       |  |
| Dioctyl tin (DOT)                       | With reference to ISO 17353: 2004,     | mg/kg        | 0.03            | n.d.   | _     |  |
|   | analysis was performed by GC/FPD.      | 1119/119     | 0.00            | 11.0.  |       |  |
| Bis(tributyltin) oxide (TBTO) (CAS No.: | With reference to ISO 17353: 2004,     | mg/kg        | 0.03 🛦          | n.d.   | _     |  |
| 56-35-9)                                | analysis was performed by GC/FPD.      | g/ kg        | 0.00 =          | 11.0.  |       |  |
|   | Calculated from the result of Tributyl |              |                 |        |       |  |
|   | Tin (TBT).                             |              |                 |        |       |  |
|   | · · · · ( · <i>B</i> · ).              |              |                 |        |       |  |

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#### 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. 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".
- 6. 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.
- 7. PFOA and its salts including:
  - CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
- 8. ▲ : The MDL was evaluated for element / tested substance.

Conversion Formula :  $AX = A \times F$ 

| AX                           | Α                  | F     |
|------------------------------|--------------------|-------|
| Bis(tributyltin)oxide (TBTO) | Tributyl Tin (TBT) | 1.024 |

Parameter Conversion Table: https://twap.sqs.com/sqsrsts/chn/download-REACH\_tw.asp

- 9. Negative\*/Positive\*: The test result of Geiger counter is from comparison between test outcome and environment background. In general, there is little radiation dose existing in environment. (Radiation dose from environment background usually less than or equal to 0.2µSv/hr)
  - The test result less than environment background was shown as Negative\*; the result greater than environment background was shown as Positive\*.
- 10. The statement of compliance conformity is based on comparison of testing results and limits.

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

|                             | C-11             | Cala   | 2                                   | Cala                                 |                                     |
|-----------------------------|------------------|--|-------------------------------------|--------------------------------------|-------------------------------------|
|                             | Category 1       |  | gory 2                              |                                      | gory 3                              |
| Parameter                   | be placed in the | placed in the outh, or materials in foreseeable long-term skin contact (> 30 seconds) or short-term repetitive contact with the skin.  Category 1, with intended or Category 1 or intended or foreseeable long-term skin contact (> 30 seconds) or short-term skin seconds). |                                     | r 2, with                            |                                     |
|                             |                  | a.<br>Use by<br>children<br>under 14   | b.<br>Other<br>consumer<br>products | a.<br>Use by<br>children<br>under 14 | b.<br>Other<br>consumer<br>products |
| Naphthalene                 | < 1              | <  | : 2                                 | < 10                                 |                                     |
| Phenanthrene                |                  |  |                                     |                                      |                                     |
| Anthracene                  | < 1 Sum          | < 5 Sum  | < 10 Sum                            | < 20 Sum                             | < 50 Sum                            |
| Fluoranthene                | \ 1 Juiii        | < 3 3dill  | < 10 3um                            | < 20 Julii                           | < 50 3um                            |
| Pyrene                      |                  |  |                                     |                                      |                                     |
| Benzo[a]anthracene          | < 0.2            | < 0.2  | < 0.5                               | < 0.5                                | < 1                                 |
| Chrysene                    | < 0.2            | < 0.2  | < 0.5                               | < 0.5                                | < 1                                 |
| Benzo[b]fluoranthene        | < 0.2            | < 0.2  | < 0.5                               | < 0.5                                | < 1                                 |
| Benzo[j]fluoranthene        | < 0.2            | < 0.2  | < 0.5                               | < 0.5                                | < 1                                 |
| Benzo[k]fluoranthene        | < 0.2            | < 0.2  | < 0.5                               | < 0.5                                | < 1                                 |
| Benzo[a]pyrene              | < 0.2            | < 0.2  | < 0.5                               | < 0.5                                | < 1                                 |
| Benzo[e]pyrene              | < 0.2            | < 0.2  | < 0.5                               | < 0.5                                | < 1                                 |
| Indeno[1,2,3-c,d]<br>pyrene | < 0.2            | < 0.2  | < 0.5                               | < 0.5                                | < 1                                 |
| Dibenzo[a,h]anthracene      | < 0.2            | < 0.2  | < 0.5                               | < 0.5                                | < 1                                 |
| Benzo[g,h,i]perylene        | < 0.2            | < 0.2  | < 0.5                               | < 0.5                                | < 1                                 |
| Sum of 15 PAH               | < 1              | < 5  | < 10                                | < 20                                 | < 50                                |

Unit: mg/kg

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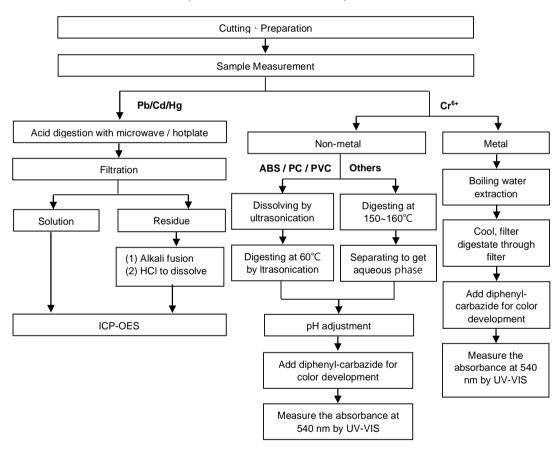
No.: ETR20A01710 Date: 21-Oct-2020

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#### **Analytical flow chart of Heavy Metal**

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

( Cr6+ test method excluded )



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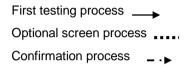
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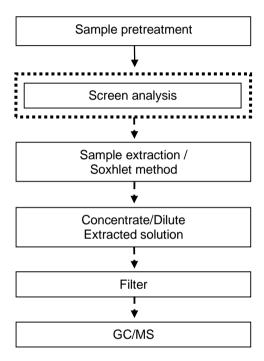


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#### Analytical flow chart - PBBs / PBDEs





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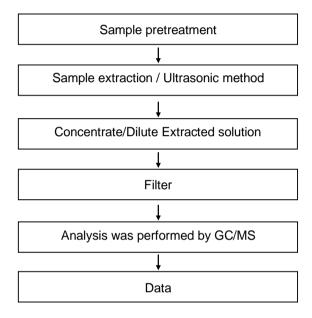
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#### **Analytical flow chart - HBCDD**



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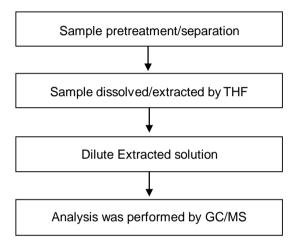


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#### Analytical flow chart - Phthalate

[Test method: IEC 62321-8]



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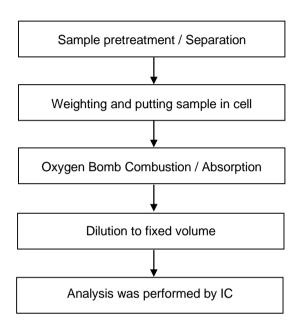
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#### Analytical flow chart - Halogen



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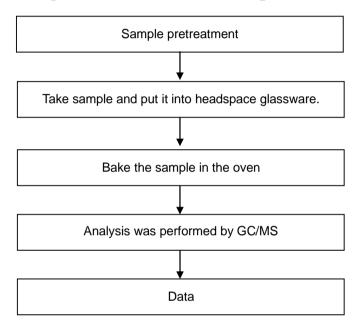
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#### Analytical flow chart of volatile organic compounds (VOCs)

[Reference method: US EPA 5021A]



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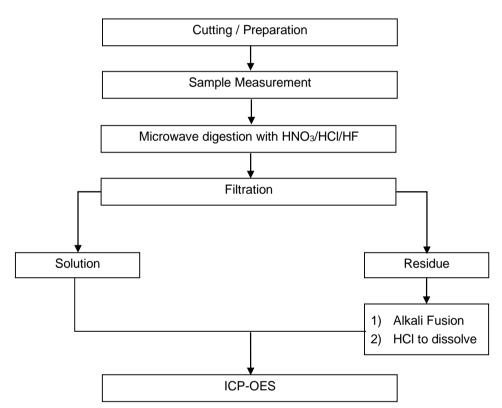


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#### **Analytical flow chart of Heavy Metal**

These samples were dissolved totally by pre-conditioning method according to below flow chart. [Reference method: US EPA 3051 \ US EPA 3052]



\* US EPA 3051 method does not add HF.

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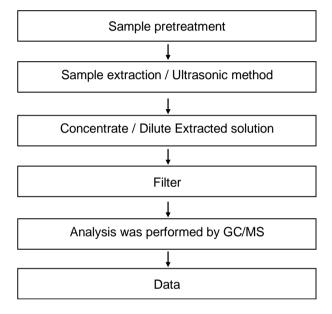
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#### Analytical flow chart - Ethylene glycol ether



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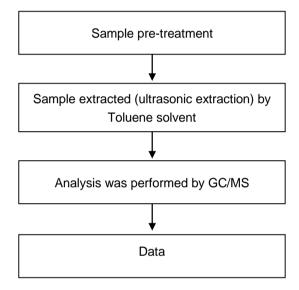
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#### Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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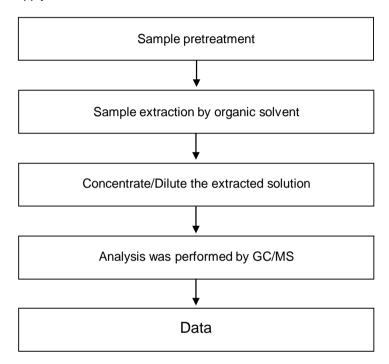


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#### **Analytical flow chart**

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



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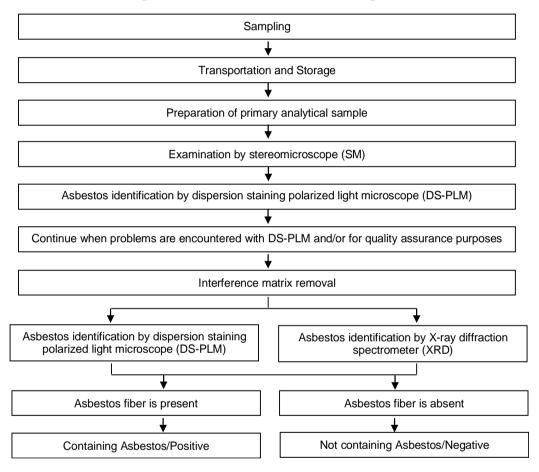


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#### Analysis flow chart for determination of Asbestos

#### [Reference method: EPA 600/R-93/116]



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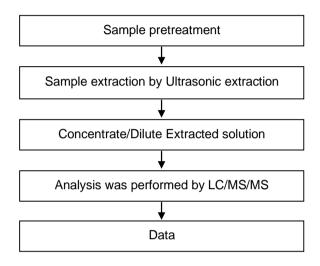
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#### **Analytical flow chart - PFOA/PFOS**



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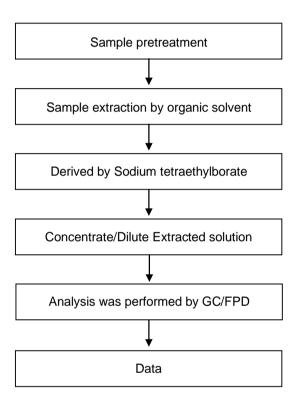
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#### Analytical flow chart - Organic-Tin



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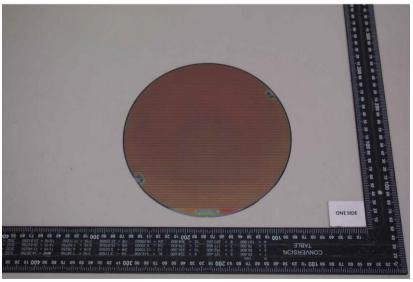
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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

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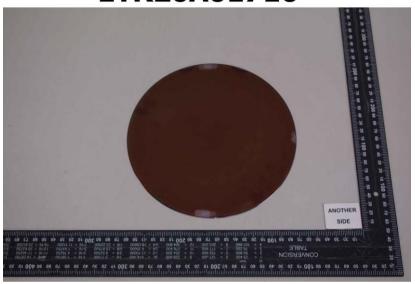
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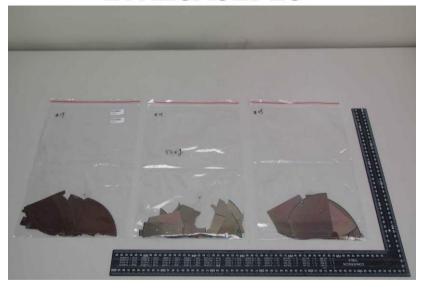
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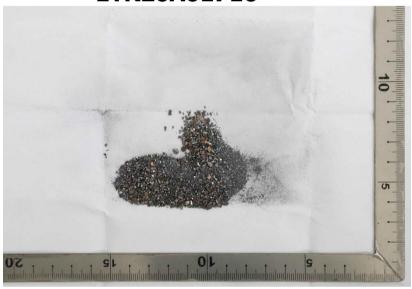
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### ETR20A01710



\*\* End of Report \*\*

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