

# Test Report No. F690101/LF-CTSAYGU26-01067

Issued Date : 2026. 01. 22

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## POONGSAN CORPORATION

94 Sanam-ro, Onsan-eup  
Ulju-gun, Ulsan  
Korea



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

**SGS File No.** : AYGU26-01067

**Product Name** : C64750-Tin Plated

**Item No./Part No.** : P26Hyper

**Client Reference Data** : PMC26Hyper

**Received Date** : 2026. 01. 07

**Test Period** : 2026. 01. 07 to 2026. 01. 22

**Report Comments** : By the applicant's request, item No.s/part No.s & client reference information are stated/added on report.

**Conclusion** : Based on the performed tests on selected part of submitted samples, the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

**Test Results** : For further details, please refer to following page(s)

**SGS Korea Co., Ltd.**  
/ Busan Branch



**Taehee Kang / Technical Manager**

The test results of this test report are only limited to samples and sample names provided by the client and do not guarantee the quality of all products of the client. This test report shall not be used for public relation, advertisement, lawsuit and shall not be used by excerpts from it. This test report can be checked through the <http://rohs.kr.sgs.com/checkreport/main>. This test report is not related to KS Q ISO/IEC 17025 and Korea Laboratory Accreditation Scheme.

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MQP-708-001-F12 (01)

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Sample No. : AYGU26-01067.001  
Sample Description : C64750-Tin Plated  
Item No./Part No. : P26Hyper  
Materials : N/A

## Heavy Metals

| Test Items                    | Unit   | Test Method                                                | MDL | Results |
|-------------------------------|--------|------------------------------------------------------------|-----|---------|
| Cadmium (Cd)                  | mg/kg  | With reference to IEC 62321-5 : 2013, by ICP-OES           | 0.5 | N.D.    |
| Lead (Pb)                     | mg/kg  | With reference to IEC 62321-5 : 2013, by ICP-OES           | 5   | N.D.    |
| Mercury (Hg)                  | mg/kg  | With reference to IEC 62321-4 : 2013+A1 : 2017, by ICP-OES | 2   | N.D.    |
| Hexavalent Chromium (Cr VI)++ | µg/cm² | With reference to IEC 62321-7-1 : 2015, by UV-Vis          | 0.1 | N.D.    |

## Total Metals

| Test Items     | Unit  | Test Method                                                     | MDL | Results |
|----------------|-------|-----------------------------------------------------------------|-----|---------|
| Beryllium (Be) | mg/kg | With reference to EPA 3052 : 1996, EPA 6010D : 2018, by ICP-OES | 5   | N.D.    |
| Antimony (Sb)  | mg/kg | With reference to EPA 3052 : 1996, EPA 6010D : 2018, by ICP-OES | 10  | N.D.    |

## Flame Retardants-PBBs/PBDEs

| Test Items              | Unit  | Test Method                                    | MDL | Results |
|-------------------------|-------|------------------------------------------------|-----|---------|
| Monobromobiphenyl       | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Dibromobiphenyl         | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tribromobiphenyl        | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tetrabromobiphenyl      | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Pentabromobiphenyl      | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Hexabromobiphenyl       | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Heptabromobiphenyl      | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Octabromobiphenyl       | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Nonabromobiphenyl       | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Decabromobiphenyl       | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Monobromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Dibromodiphenyl ether   | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Tribromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |

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Sample No. : AYGU26-01067.001

Sample Description : C64750-Tin Plated

Item No./Part No. : P26Hyper

Materials : N/A

## Flame Retardants-PBBs/PBDEs

| Test Items               | Unit  | Test Method                                    | MDL | Results |
|--------------------------|-------|------------------------------------------------|-----|---------|
| Tetrabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Pentabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Hexabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Heptabromodiphenyl ether | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Octabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Nonabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |
| Decabromodiphenyl ether  | mg/kg | With reference to IEC 62321-6 : 2015, by GC-MS | 5   | N.D.    |

## Phthalates

| Test Items                         | Unit  | Test Method                                    | MDL | Results |
|------------------------------------|-------|------------------------------------------------|-----|---------|
| Di-(2-ethylhexyl) phthalate (DEHP) | mg/kg | With reference to IEC 62321-8 : 2017, by GC-MS | 50  | N.D.    |
| Di-butyl phthalate (DBP)           | mg/kg | With reference to IEC 62321-8 : 2017, by GC-MS | 50  | N.D.    |
| Benzyl butyl phthalate (BBP)       | mg/kg | With reference to IEC 62321-8 : 2017, by GC-MS | 50  | N.D.    |
| Di-isobutyl phthalate (DIBP)       | mg/kg | With reference to IEC 62321-8 : 2017, by GC-MS | 50  | N.D.    |

## Halogen Contents

| Test Items   | Unit  | Test Method                              | MDL | Results |
|--------------|-------|------------------------------------------|-----|---------|
| Bromine(Br)  | mg/kg | With reference to EN 14582 : 2016, by IC | 30  | N.D.    |
| Chlorine(Cl) | mg/kg | With reference to EN 14582 : 2016, by IC | 30  | N.D.    |
| Fluorine(F)  | mg/kg | With reference to EN 14582 : 2016, by IC | 30  | N.D.    |
| Iodine(I)    | mg/kg | With reference to EN 14582 : 2016, by IC | 50  | N.D.    |

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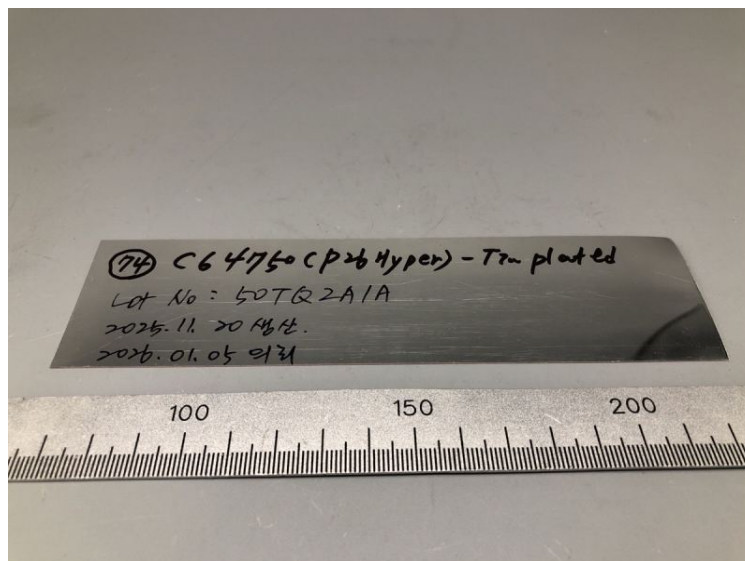
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- NOTE:
- (1) N.D. = Not detected. (<MDL)
  - (2) mg/kg = ppm, ug/kg = ppb, mg/L = ppm
  - (3) MDL = Method Detection Limit
  - (4) - = No regulation
  - (5) \*\* = Qualitative analysis (No Unit)
  - (6) Negative = Undetectable / Positive = Detectable
  - (7) + = a. The result of Hexavalent Chromium (Cr(VI)) is "ND" as the result of Chromium (Cr) is "ND", and confirmation test of Hexavalent Chromium (Cr(VI)) is not required.  
b. If the content of Total Chromium (Cr) is greater than the MDL of Hexavalent Chromium (Cr(VI)), it is the result of hexavalent Chromium by UV-VIS.
  - (8) ++ = a. The sample is positive for Cr VI if the Cr VI concentration is greater than 0.13 ug/cm2. The sample coating is considered to contain Cr VI.  
b. The sample is negative for Cr VI if Cr VI is ND(concentration less than 0.10 ug/cm2). The coating is considered a non-Cr VI based coating.  
c. The result between 0.10 ug/cm2 and 0.13 ug/cm2 is considered to be inconclusive – unavoidable coating variations may influence the determination.

Picture of Sample as Received:



AYGU26-01067.001

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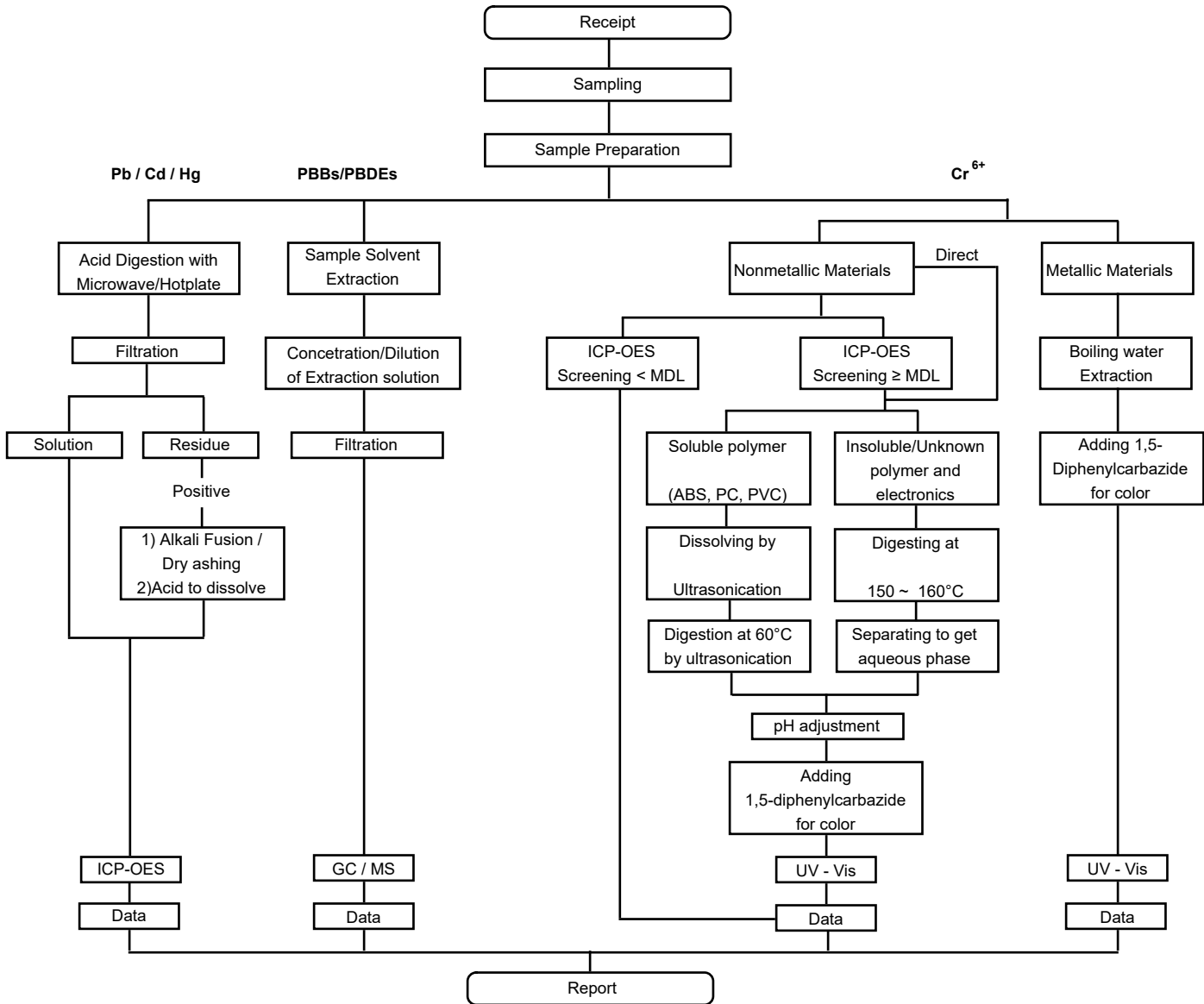
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**Flow Chart for RoHS Pb / Cd / Hg / Cr<sup>6+</sup> / PBBs&PBDEs Test**



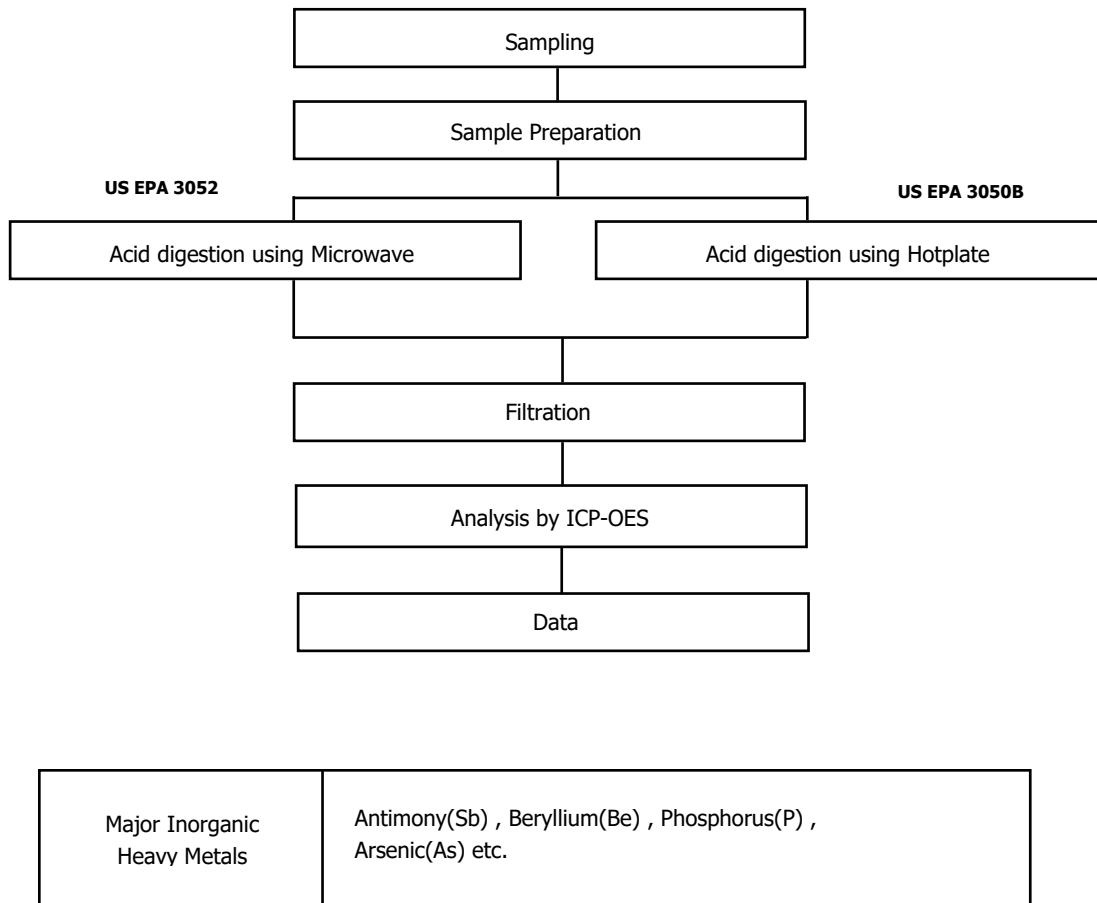
The samples were dissolved totally at the acid digestion step of the above flow chart for Cd, Pb, Hg.

- Technician : Gihwan Kim / Choah Jeong / Junkwon Park / Sudong Jo  
- Supervisor : Taehee Kang

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### Flow Chart for Heavy metal

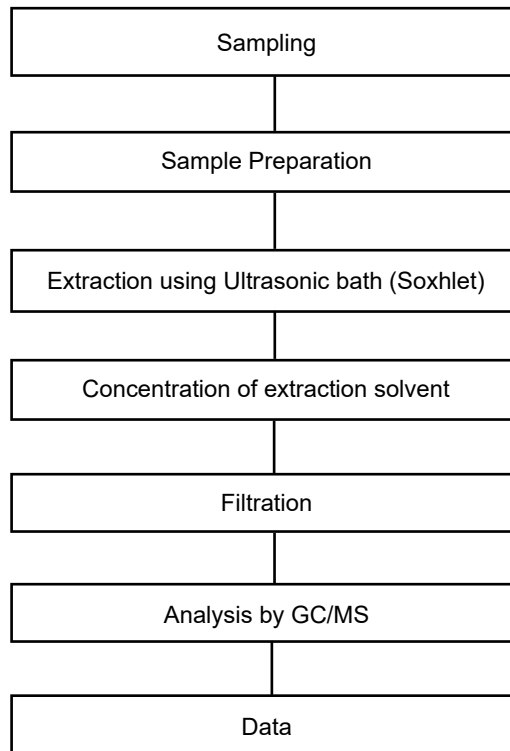


- Technician : Gihwan Kim / Sudong Jo  
- Supervisor : Taehee Kang

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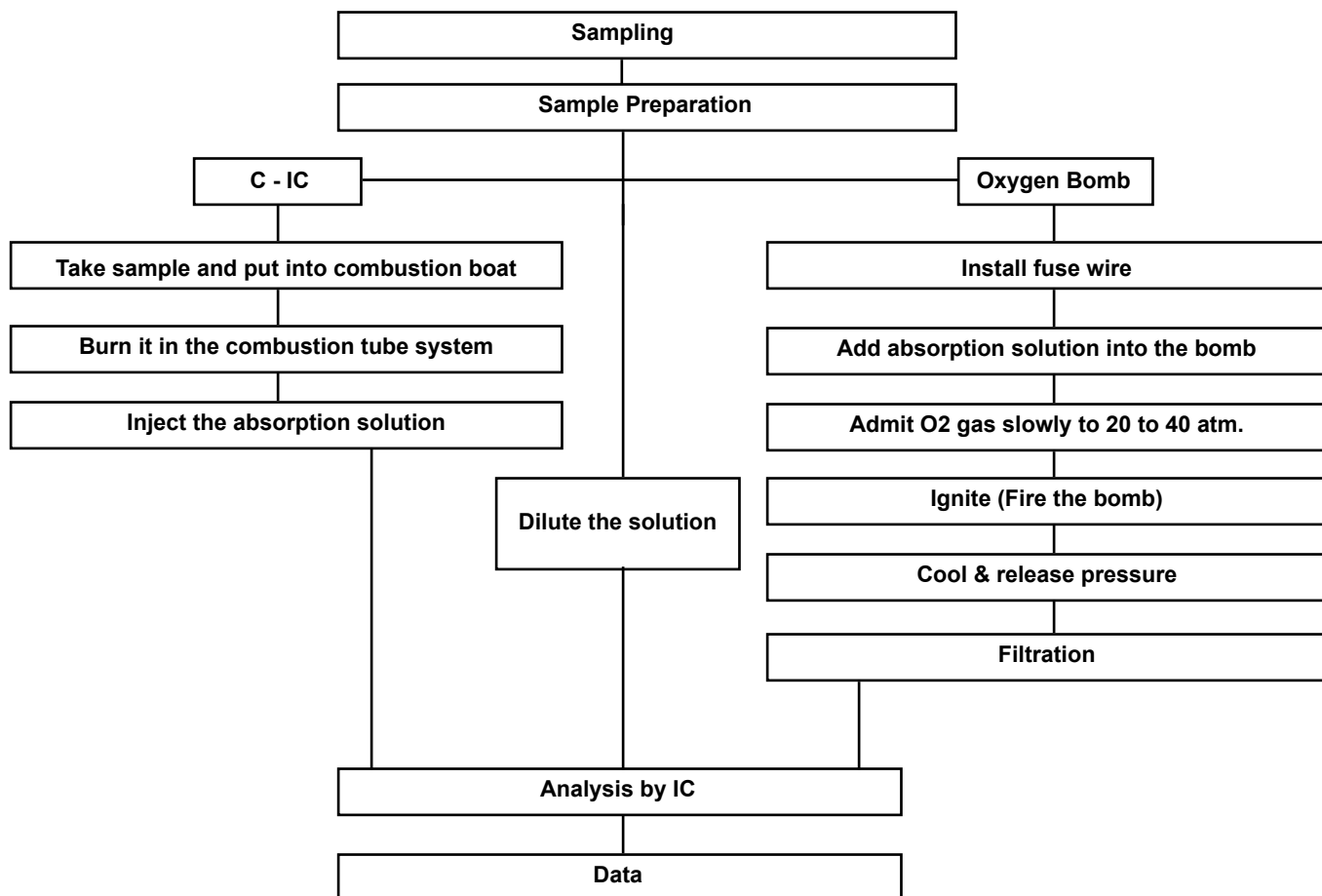
**Flow Chart for Phthalates**



- Technician : Yukyung Park  
- Supervisor : Taehee Kang

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### Flow Chart for Halogen Test



- Technician : Sudong Jo  
- Supervisor : Taehee Kang

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

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