



# Test Report

Report No. A226012361320100201

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**Company Name** YANGZHOU J&V SEMICONDUCTOR CO. LTD  
**shown on Report**

**Address** NO.56, NEW GANQUAN EAST ROAD,AUTOMOBILE INDUSTRIAL PARK, YANG ZHOU,JANGSU, CHINA

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

**Sample Name** High Voltage Module Chip(AL)  
**Sample Received Date** Feb. 13, 2026  
**Testing Period** Feb. 13, 2026 to Feb. 27, 2026

**Test Requested** As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates, Hexabromocyclododecane (HBCDD), Middle Chain Chlorinated Paraffins (MCCPs), Tetrabromobisphenol A (TBBP-A), Arsenic(As), Beryllium(Be), Antimony(Sb), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS) in the submitted sample(s).

**Test Method/Test Result(s)** Please refer to the following page(s).

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### Conclusion

| Tested Sample    | According to standard/directive                        | Result |
|------------------|--|--------|
| Submitted Sample | RoHS Directive 2011/65/EU with amendment (EU) 2015/863 | PASS   |

\*\*\*\*\*

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.



*Chen Kaimin*  
Chen kaimin  
Lab Manager

Date Feb. 27, 2026

No. R295821560

CTI Testing International Pinbiao(Shanghai) Co., Ltd.

No.1351, Wanfang Road, Minhang District, Shanghai, China

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## Test Method

| Tested Item(s)                             | Test Method   | Measured Equipment(s)  |
|--|---|------------------------|
| Lead (Pb)                                  | IEC 62321-5:2013  | ICP-OES                |
| Cadmium (Cd)                               | IEC 62321-5:2013  | ICP-OES                |
| Mercury (Hg)                               | IEC 62321-4:2013+AMD1:2017 CSV  | ICP-OES                |
| Hexavalent Chromium (Cr(VI))               | IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013 | UV-Vis/ICP-OES         |
| Polybrominated Biphenyls (PBBs)            | IEC 62321-12:2023   | GC-MS                  |
| Polybrominated Diphenyl Ethers (PBDEs)     | IEC 62321-12:2023   | GC-MS                  |
| Phthalates (DBP, BBP, DEHP, DIBP)          | IEC 62321-12:2023   | GC-MS                  |
| Hexabromocyclododecane (HBCDD)             | IEC 62321-9:2021  | GC-MS                  |
| Middle Chain Chlorinated Paraffins (MCCPs) | Refer to US EPA 3550C:2007 & US EPA 8270E:2018*                               | GC-MS(NCI) or GC-MS/MS |
| Tetrabromobisphenol A (TBBP-A)             | Refer to US EPA 3550C:2007 & US EPA 8321B:2007*                               | LC-MS-MS/LC-MS         |
| Arsenic(As)                                | Refer to US EPA 3052:1996 & US EPA 6010D:2018*                                | ICP-OES                |
| Beryllium(Be)                              | Refer to US EPA 3052:1996 & US EPA 6010D:2018*                                | ICP-OES                |
| Antimony(Sb)                               | Refer to US EPA 3052:1996 & US EPA 6010D:2018*                                | ICP-OES                |
| Fluorine (F)                               | EN 14582:2016   | IC                     |
| Chlorine (Cl)                              | EN 14582:2016   | IC                     |
| Bromine (Br)                               | EN 14582:2016   | IC                     |
| Iodine (I)                                 | EN 14582:2016   | IC                     |
| Perfluorooctanoic Acid(PFOA)               | Refer to EN 17681-1:2025*   | LC-MS-MS               |
| Perfluorooctane Sulfonates(PFOS)           | Refer to EN 17681-1:2025*   | LC-MS-MS               |
| Phthalates                                 | Refer to EN 14372:2004(E)*  | GC-MS                  |

## Test Result(s)

| Tested Item(s)               | Result                    | MDL     | Limit      |
|------------------------------|---------------------------|---------|------------|
|                              | 002                       |         |            |
| Lead (Pb)                    | 31078 mg/kg* <sup>1</sup> | 2 mg/kg | 1000 mg/kg |
| Cadmium (Cd)                 | N.D.                      | 2 mg/kg | 100 mg/kg  |
| Mercury (Hg)                 | N.D.                      | 2 mg/kg | 1000 mg/kg |
| Hexavalent Chromium (Cr(VI)) | N.D.                      | 8 mg/kg | 1000 mg/kg |

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| Tested Item(s)                         | Result | MDL      | Limit      |
|--|--------|----------|------------|
|  | 002    |          |            |
| <b>Polybrominated Biphenyls (PBBs)</b> |        |          |            |
| Monobromobiphenyl                      | N.D.   | 25 mg/kg | 1000 mg/kg |
| Dibromobiphenyl                        | N.D.   | 25 mg/kg |            |
| Tribromobiphenyl                       | N.D.   | 25 mg/kg |            |
| Tetrabromobiphenyl                     | N.D.   | 25 mg/kg |            |
| Pentabromobiphenyl                     | N.D.   | 25 mg/kg |            |
| Hexabromobiphenyl                      | N.D.   | 25 mg/kg |            |
| Heptabromobiphenyl                     | N.D.   | 25 mg/kg |            |
| Octabromobiphenyl                      | N.D.   | 25 mg/kg |            |
| Nonabromobiphenyl                      | N.D.   | 25 mg/kg |            |
| Decabromobiphenyl                      | N.D.   | 25 mg/kg |            |

| Tested Item(s)                                | Result | MDL      | Limit      |
|---|--------|----------|------------|
|   | 002    |          |            |
| <b>Polybrominated Diphenyl Ethers (PBDEs)</b> |        |          |            |
| Monobromodiphenyl ether                       | N.D.   | 25 mg/kg | 1000 mg/kg |
| Dibromodiphenyl ether                         | N.D.   | 25 mg/kg |            |
| Tribromodiphenyl ether                        | N.D.   | 25 mg/kg |            |
| Tetrabromodiphenyl ether                      | N.D.   | 25 mg/kg |            |
| Pentabromodiphenyl ether                      | N.D.   | 25 mg/kg |            |
| Hexabromodiphenyl ether                       | N.D.   | 25 mg/kg |            |
| Heptabromodiphenyl ether                      | N.D.   | 25 mg/kg |            |
| Octabromodiphenyl ether                       | N.D.   | 25 mg/kg |            |
| Nonabromodiphenyl ether                       | N.D.   | 25 mg/kg |            |
| Decabromodiphenyl ether                       | N.D.   | 25 mg/kg |            |

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| Tested Item(s)                                      | Result | MDL      | Limit      |
|---|--------|----------|------------|
|   | 002    |          |            |
| <b>Phthalates (DBP, BBP, DEHP, DIBP)</b>            |        |          |            |
| Dibutyl phthalate (DBP)<br>CAS#:84-74-2             | N.D.   | 50 mg/kg | 1000 mg/kg |
| Butyl benzyl phthalate (BBP)<br>CAS#:85-68-7        | N.D.   | 50 mg/kg | 1000 mg/kg |
| Di-(2-ethylhexyl) phthalate<br>(DEHP) CAS#:117-81-7 | N.D.   | 50 mg/kg | 1000 mg/kg |
| Diisobutyl phthalate (DIBP)<br>CAS#:84-69-5         | N.D.   | 50 mg/kg | 1000 mg/kg |

| Tested Item(s)                    | Result | MDL      |
|-----------------------------------|--------|----------|
|                                   | 002    |          |
| Hexabromocyclododecane<br>(HBCDD) | N.D.   | 20 mg/kg |

| Tested Item(s)                                | Result | MDL       |
|---|--------|-----------|
|   | 002    |           |
| Middle Chain Chlorinated<br>Paraffins (MCCPs) | N.D.   | 100 mg/kg |

| Tested Item(s)                    | Result | MDL     |
|-----------------------------------|--------|---------|
|                                   | 002    |         |
| Tetrabromobisphenol A<br>(TBBP-A) | N.D.   | 5 mg/kg |

| Tested Item(s) | Result | MDL      |
|----------------|--------|----------|
|                | 002    |          |
| Arsenic (As)   | N.D.   | 10 mg/kg |

| Tested Item(s) | Result | MDL      |
|----------------|--------|----------|
|                | 002    |          |
| Beryllium (Be) | N.D.   | 10 mg/kg |

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| Tested Item(s) | Result | MDL      |
|----------------|--------|----------|
|                | 002    |          |
| Antimony (Sb)  | N.D.   | 10 mg/kg |

| Tested Item(s) | Result | MDL      |
|----------------|--------|----------|
|                | 002    |          |
| Fluorine (F)   | N.D.   | 10 mg/kg |
| Chlorine (Cl)  | N.D.   | 10 mg/kg |
| Bromine (Br)   | N.D.   | 10 mg/kg |
| Iodine (I)     | N.D.   | 10 mg/kg |

| Tested Item(s)                | Result | MDL        |
|-------------------------------|--------|------------|
|                               | 002    |            |
| Perfluorooctanoic Acid (PFOA) | N.D.   | 0.01 mg/kg |

| Tested Item(s)                    | Result | MDL        |
|-----------------------------------|--------|------------|
|                                   | 002    |            |
| Perfluorooctane Sulfonates (PFOS) | N.D.   | 0.01 mg/kg |

| Tested Item(s)   | Result | MDL      |
|--|--------|----------|
|  | 002    |          |
| <b>Phthalates</b>  |        |          |
| Di-n-octyl phthalate (DNOP)<br>CAS#:117-84-0                 | N.D.   | 50 mg/kg |
| Di-isononyl phthalate (DINP)<br>CAS#:28553-12-0, 68515-48-0  | N.D.   | 50 mg/kg |
| Di-iso-decyl phthalate (DIDP)<br>CAS#:26761-40-0, 68515-49-1 | N.D.   | 50 mg/kg |
| Dipentyl phthalate (DPP/DPENP)<br>CAS#:131-18-0              | N.D.   | 50 mg/kg |

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**Sample/Part Description**

| No. | CTI Sample ID | Description |
|-----|---------------|-------------|
| 1   | 002           | Chip        |

**Remark:** The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Arsenic, Beryllium, Antimony.  
The test result(s) of this report is/are presented in reference to the result(s) that reported in A2260123613201002.

\*<sup>1</sup>=According to the client's statement, the material of the sample(s) fall into exemption items 7(c)-I according to EU Directive 2011/65/EU:Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

**Note:** “\*” indicates the method(s) is (are) not in CNAS accreditation scope.

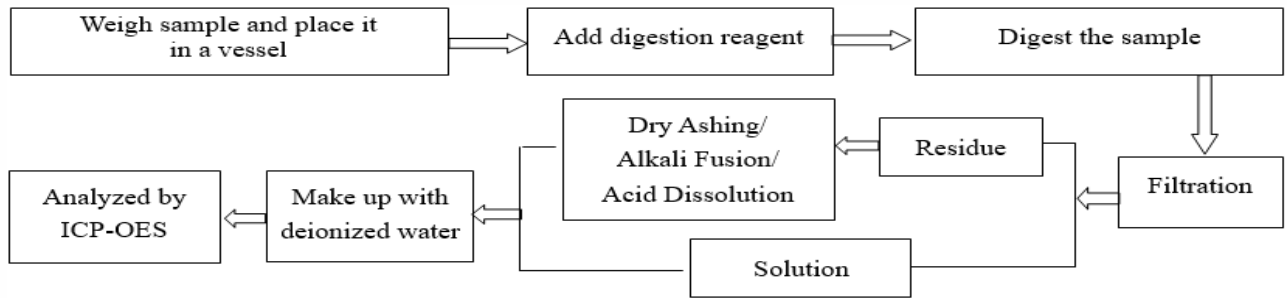
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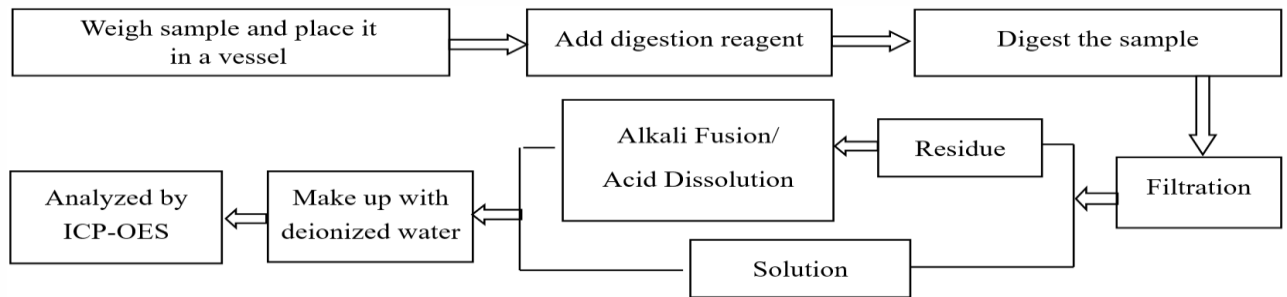
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**Test Process**

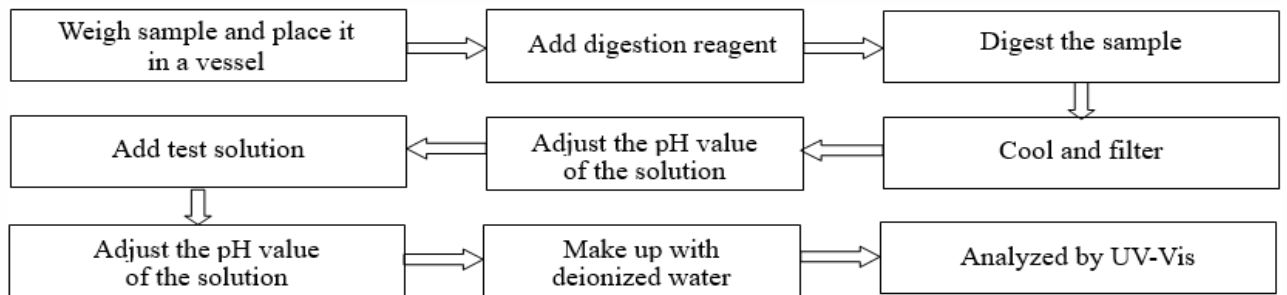
**1. Lead (Pb), Cadmium (Cd), Chromium(Cr)**



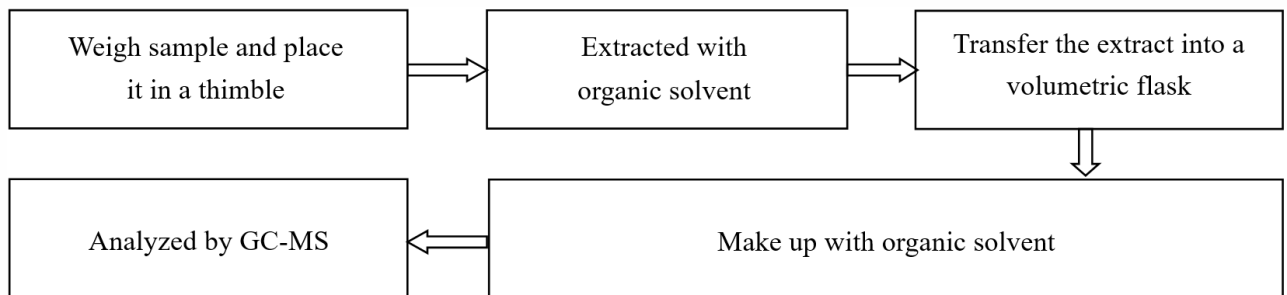
**2. Mercury (Hg)**



**3. Hexavalent Chromium (Cr(VI))**



**4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)**

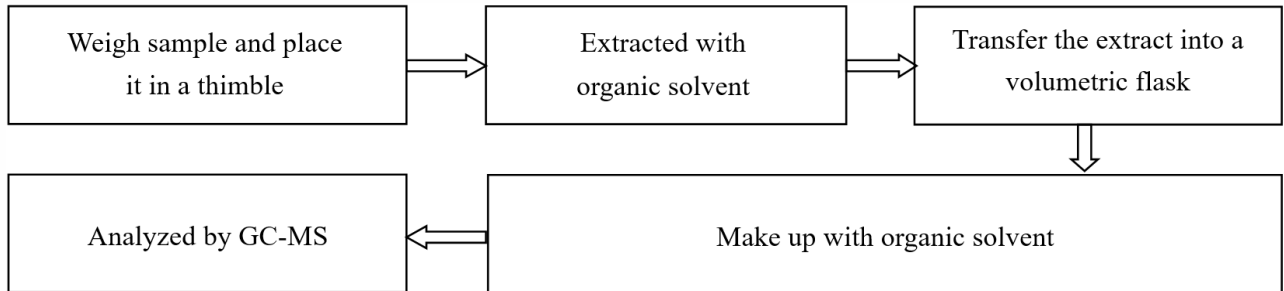


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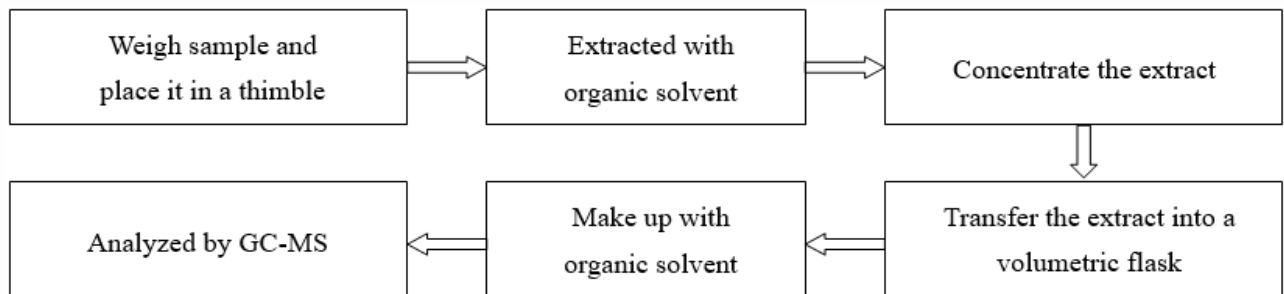
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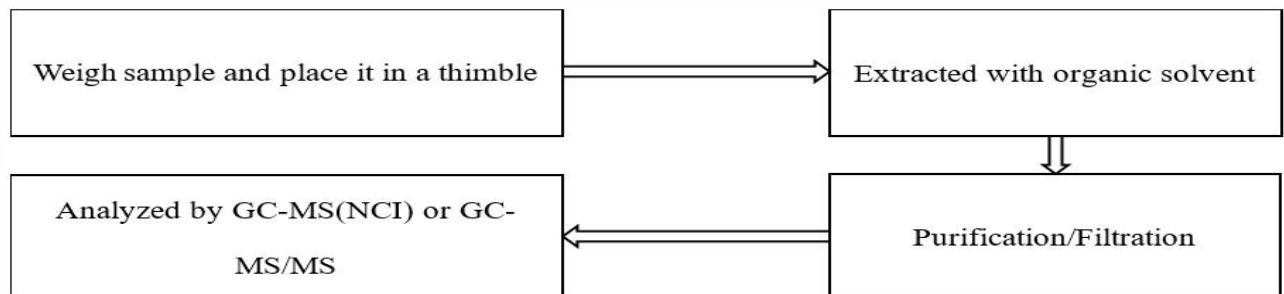
## 5. Phthalates (DBP, BBP, DEHP, DIBP)



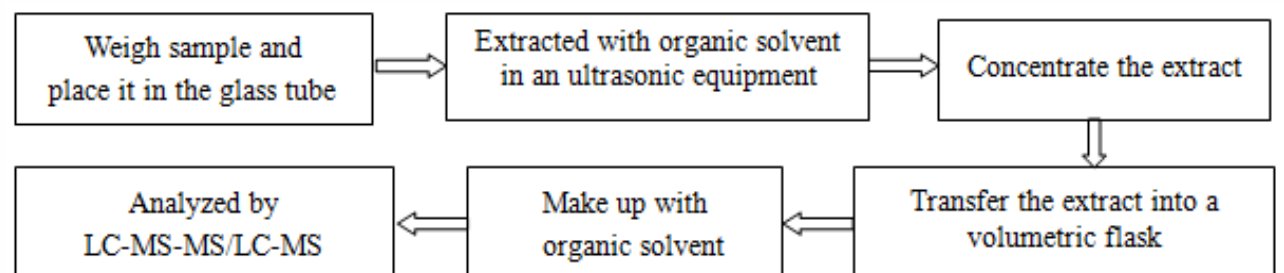
## 6. Hexabromocyclododecane (HBCDD)



## 7. Middle Chain Chlorinated Paraffins (MCCPs)



## 8. Tetrabromobisphenol A (TBBP-A)

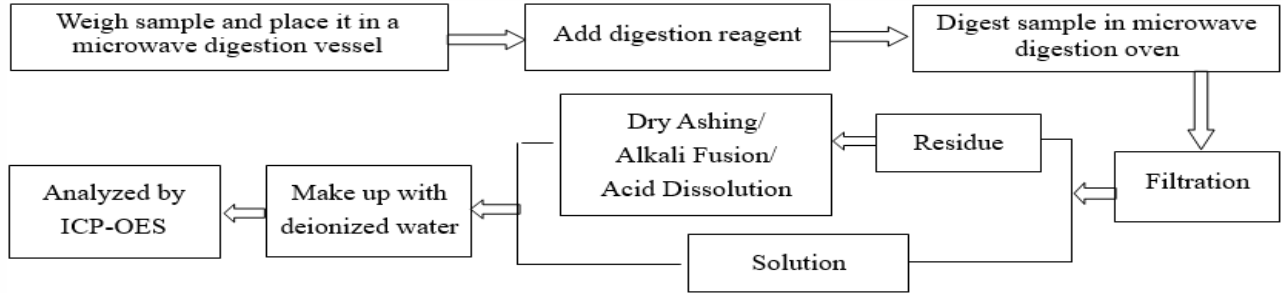


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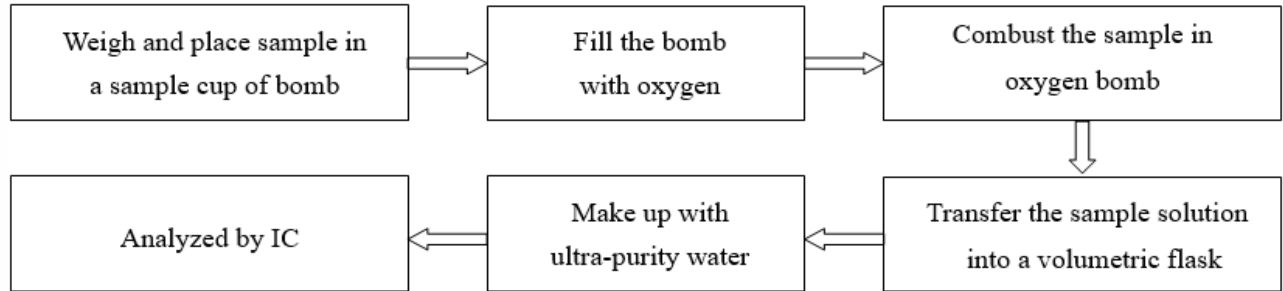
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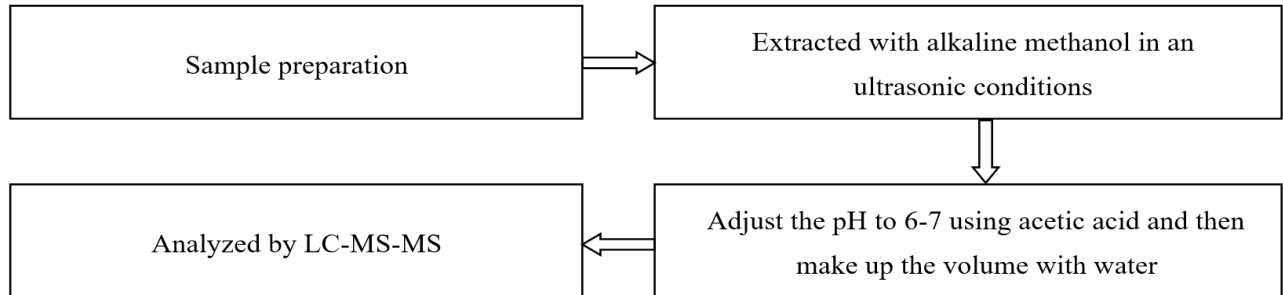
## 9. Arsenic(As), Beryllium(Be), Antimony(Sb)



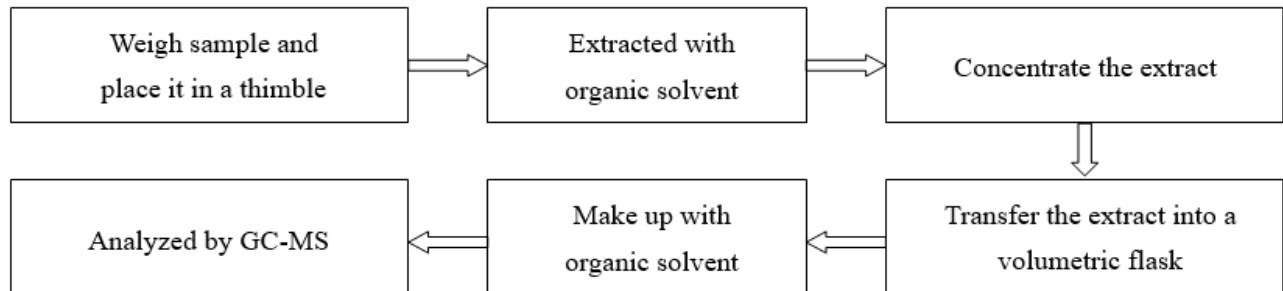
## 10. Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)



## 11. Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS)



## 12. Phthalates

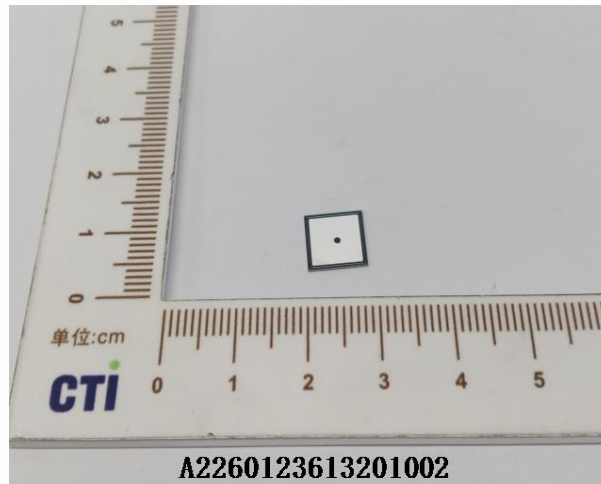


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## Photo(s) of the sample(s)



### Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;
6. In case of any discrepancy between the English version and Chinese version of the reports (if generated), the Chinese version shall prevail.

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