

## Test Report

No.: CANEC23016772301

Date: Dec 26, 2023

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Client Name: NANCHONG THREE-CIRCLE ELECTRONICS CO.,LTD.

Client Address: AIRPORT INDUSTRIAL DISTRICT.GAOPING NANCHONG.SICHUAN.CHINA

Sample Name: CERAMIC SUBSTRATE (96%Al<sub>2</sub>O<sub>3</sub>, ceramics)

The above sample(s) and information were provided by the client.

SGS Job No.: GZP23-022529

Sample Receiving Date: Dec 18, 2023

Testing Period: Dec 18, 2023 ~ Dec 26, 2023

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

| Test Requirement   | Conclusion  |
|--|-------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass        |
| Perfluorooctane Sulfonates (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts  | See Results |
| Phthalates   | See Results |
| Halogen  | See Results |
| Element(s)   | See Results |
| Red Phosphorus   | See Results |
| Flame Retardants   | See Results |
| TBBPA  | See Results |

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jany Zhong

Jany Zhong  
Approved Signatory

scan to see the report



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### Test Result(s):

#### Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description   |
|-------|------------|-------------------------|---------------|
| SN1   | A1         | CAN23-0167723-0001.C001 | White ceramic |

#### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s)                       | Limit | Unit(s) | MDL | A1 |
|------------------------------------|-------|---------|-----|----|
| Cadmium (Cd)                       | 100   | mg/kg   | 2   | ND |
| Lead (Pb)                          | 1000  | mg/kg   | 2   | ND |
| Mercury (Hg)                       | 1000  | mg/kg   | 2   | ND |
| Hexavalent Chromium (Cr(VI))       | 1000  | mg/kg   | 8   | ND |
| Polybromobiphenyl (PBBs)           | 1000  | mg/kg   | -   | ND |
| Monobromobiphenyl (MonoBB)         | -     | mg/kg   | 5   | ND |
| Dibromobiphenyl (DiBB)             | -     | mg/kg   | 5   | ND |
| Tribromobiphenyl (TriBB)           | -     | mg/kg   | 5   | ND |
| Tetrabromobiphenyl (TetraBB)       | -     | mg/kg   | 5   | ND |
| Pentabromobiphenyl (PentaBB)       | -     | mg/kg   | 5   | ND |
| Hexabromobiphenyl (HexaBB)         | -     | mg/kg   | 5   | ND |
| Heptabromobiphenyl (HeptaBB)       | -     | mg/kg   | 5   | ND |
| Octabromobiphenyl (OctaBB)         | -     | mg/kg   | 5   | ND |
| Nonabromobiphenyl (NonaBB)         | -     | mg/kg   | 5   | ND |
| Decabromobiphenyl (DecaBB)         | -     | mg/kg   | 5   | ND |
| Polybromodiphenyl ether (PBDEs)    | 1000  | mg/kg   | -   | ND |
| Monobromodiphenylether (MonoBDE)   | -     | mg/kg   | 5   | ND |
| Dibromodiphenylether (DiBDE)       | -     | mg/kg   | 5   | ND |
| Tribromodiphenylether (TriBDE)     | -     | mg/kg   | 5   | ND |
| Tetrabromodiphenylether (TetraBDE) | -     | mg/kg   | 5   | ND |
| Pentabromodiphenylether (PentaBDE) | -     | mg/kg   | 5   | ND |
| Hexabromodiphenylether (HexaBDE)   | -     | mg/kg   | 5   | ND |
| Heptabromodiphenylether (HeptaBDE) | -     | mg/kg   | 5   | ND |
| Octabromodiphenylether (OctaBDE)   | -     | mg/kg   | 5   | ND |
| Nonabromodiphenylether (NonaBDE)   | -     | mg/kg   | 5   | ND |
| Decabromodiphenylether (DecaBDE)   | -     | mg/kg   | 5   | ND |
| Dibutyl Phthalate (DBP)            | 1000  | mg/kg   | 50  | ND |
| Benzyl Butyl Phthalate (BBP)       | 1000  | mg/kg   | 50  | ND |



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| Test Item(s)                       | Limit | Unit(s) | MDL | A1 |
|------------------------------------|-------|---------|-----|----|
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 1000  | mg/kg   | 50  | ND |
| Diisobutyl Phthalate(DIBP)         | 1000  | mg/kg   | 50  | ND |

## Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

## Perfluorooctane Sulfonates (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by HPLC-MS or LC-MS/MS.

| Test Item(s)  | CAS No.    | Unit(s) | MDL   | A1 |
|---|------------|---------|-------|----|
| PFOS and its derivatives                                      | -          | mg/kg   | -     | ND |
| Perfluorooctane Sulfonates (PFOS) and its salts*              | 1763-23-1  | mg/kg   | 0.010 | ND |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)               | 4151-50-2  | mg/kg   | 0.010 | ND |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)              | 31506-32-8 | mg/kg   | 0.010 | ND |
| 2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol (N-EtFOSE)  | 1691-99-2  | mg/kg   | 0.010 | ND |
| 2-(N-methylperfluoro-1-octanesulfonamido) -ethanol (N-MeFOSE) | 24448-09-7 | mg/kg   | 0.010 | ND |
| Perfluorooctane Sulfonamide (PFOSA)                           | 754-91-6   | mg/kg   | 0.010 | ND |
| Perfluorooctanoic Acid (PFOA) and its salts*                  | 335-67-1   | mg/kg   | 0.010 | ND |

## Notes:

- (1) Perfluorooctanoic acid (PFOA) and its salts\* including PFOA (CAS No. 335-67-1), APFO (CAS No. 3825-26-1), PFOA-Na (CAS No. 335-95-5), PFOA-K (CAS No. 2395-00-8), PFOA-Ag (CAS No. 335-93-3) and PFOA-F (CAS No. 335-66-0). The result of PFOA is used to represent PFOA and its salts.
- (2) Perfluorooctane sulfonates (PFOS) and its salts\* including PFOS (CAS No. 1763-23-1), POSF(CAS No. 307-35-7), PFOS-K (CAS No. 2795-39-3), PFOS-NH<sub>4</sub> (CAS No. 29081-56-9), PFOS-N(C<sub>10</sub>H<sub>21</sub>)<sub>2</sub>(CH<sub>3</sub>)<sub>2</sub> (CAS No. 251099-16-8), PFOS-NH<sub>2</sub>(C<sub>2</sub>H<sub>4</sub>OH)<sub>2</sub> (CAS No. 70225-14-8), PFOS-Li (CAS No. 29457-72-5), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No. 56773-42-3) and PFOS-Na (CAS No. 4021-47-0). The result of PFOS is used to represent PFOS and its salts.

## Phthalates

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.



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| Test Item(s)                       | CAS No.                   | Unit(s) | MDL   | A1 |
|------------------------------------|---------------------------|---------|-------|----|
| Dibutyl Phthalate(DBP)             | 84-74-2                   | %       | 0.003 | ND |
| Benzyl Butyl Phthalate(BBP)        | 85-68-7                   | %       | 0.003 | ND |
| Bis-(2-ethylhexyl) Phthalate(DEHP) | 117-81-7                  | %       | 0.003 | ND |
| Diisononyl Phthalate (DINP)        | 28553-12-0<br>/68515-48-0 | %       | 0.010 | ND |
| Di-n-Octyl Phthalate(DNOP)         | 117-84-0                  | %       | 0.003 | ND |
| Diisodecyl Phthalate (DIDP)        | 26761-40-0<br>/68515-49-1 | %       | 0.010 | ND |
| Dimethyl Phthalate(DMP)            | 131-11-3                  | %       | 0.003 | ND |
| Diethyl Phthalate(DEP)             | 84-66-2                   | %       | 0.003 | ND |
| Diisobutyl Phthalate(DIBP)         | 84-69-5                   | %       | 0.003 | ND |
| Dipentyl Phthalates (DnPP)         | 131-18-0                  | %       | 0.003 | ND |
| Dicyclohexyl Phthalate(DCHP)       | 84-61-7                   | %       | 0.003 | ND |
| Diphenyl Phthalate(DPhP)           | 84-62-8                   | %       | 0.003 | ND |
| Dibenzyl Phthalate(DBzP)           | 523-31-9                  | %       | 0.003 | ND |
| Diisooctyl Phthalate(DIOP)         | 27554-26-3                | %       | 0.010 | ND |
| Dipropyl Phthalate(DPrP)           | 131-16-8                  | %       | 0.003 | ND |
| Dinonyl Phthalate(DNP)             | 84-76-4                   | %       | 0.003 | ND |
| Di-n-Hexyl Phthalate(DnHP)         | 84-75-3                   | %       | 0.003 | ND |

## Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

| Test Item(s) | Unit(s) | MDL | A1 |
|--------------|---------|-----|----|
| Fluorine(F)  | mg/kg   | 20  | ND |
| Chlorine(Cl) | mg/kg   | 50  | ND |
| Bromine(Br)  | mg/kg   | 50  | ND |
| Iodine(I)    | mg/kg   | 50  | ND |

## Element(s)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES/AAS.

| Test Item(s)  | Unit(s) | MDL | A1 |
|---------------|---------|-----|----|
| Arsenic(As)   | mg/kg   | 10  | ND |
| Beryllium(Be) | mg/kg   | 5   | ND |
| Phosphorus(P) | mg/kg   | 20  | ND |
| Antimony(Sb)  | mg/kg   | 10  | ND |

## Red Phosphorus

Test Method: SGS In-house method (SGS-CCL-TOP-215-01), analysis was performed by PY-GC/MS/ICP-OES / GC-MS.

| Test Item(s)   | CAS No.   | Unit(s) | MDL | A1 |
|----------------|-----------|---------|-----|----|
| Red Phosphorus | 7723-14-0 | mg/kg   | 500 | ND |

## Flame Retardants



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Test Method: With reference to US EPA 3550C:2007 and US EPA 8270D:2014, analysis was performed by GC-MS.

| Test Item(s)                   | CAS No.  | Unit(s) | MDL | A1 |
|--------------------------------|--|---------|-----|----|
| Hexabromocyclododecane (HBCDD) | 134237-50-6<br>/134237-51-7<br>/134237-52-8<br>/25637-99-4<br>/3194-55-6 | mg/kg   | 5   | ND |

## TBBPA

Test Method: With reference to SGS in house method, analysis was performed by GC-MS or LC-MS or LC-MS/MS.

| Test Item(s)                  | CAS No. | Unit(s) | MDL | A1 |
|-------------------------------|---------|---------|-----|----|
| Tetrabromobisphenol A(TBBP-A) | 79-94-7 | mg/kg   | 5   | ND |

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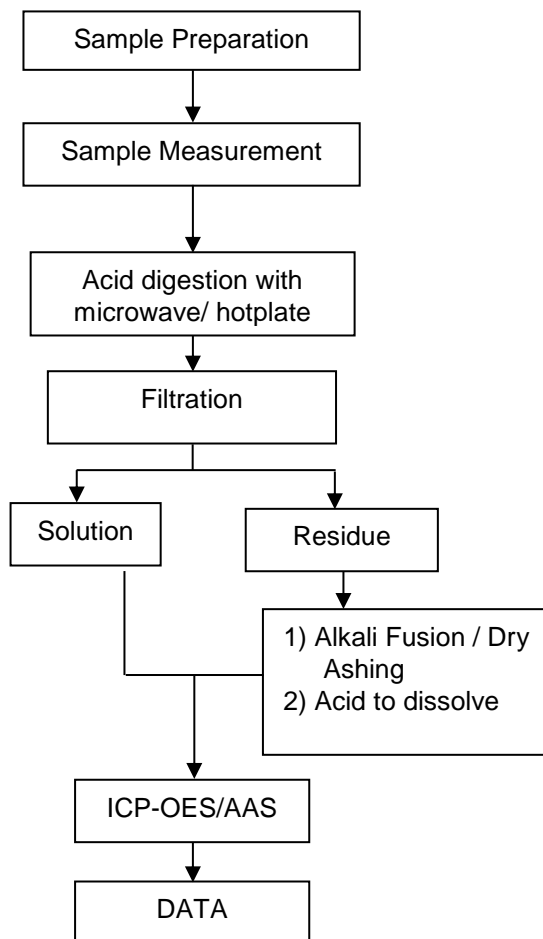
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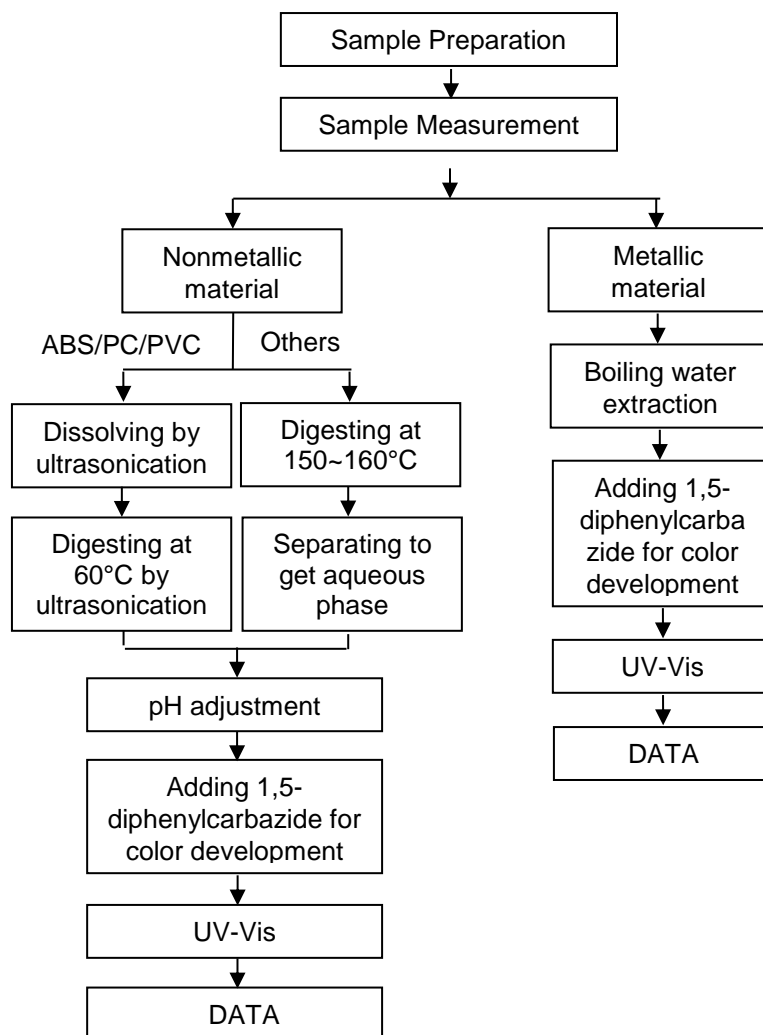
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### Elements Testing Flow Chart

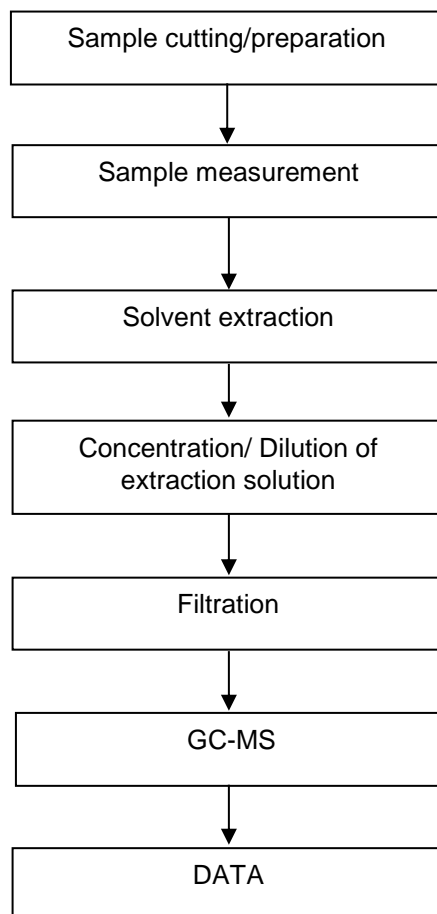
These samples were dissolved totally by pre-conditioning method according to below flow chart.



### Hexavalent Chromium (Cr(VI)) Testing Flow Chart

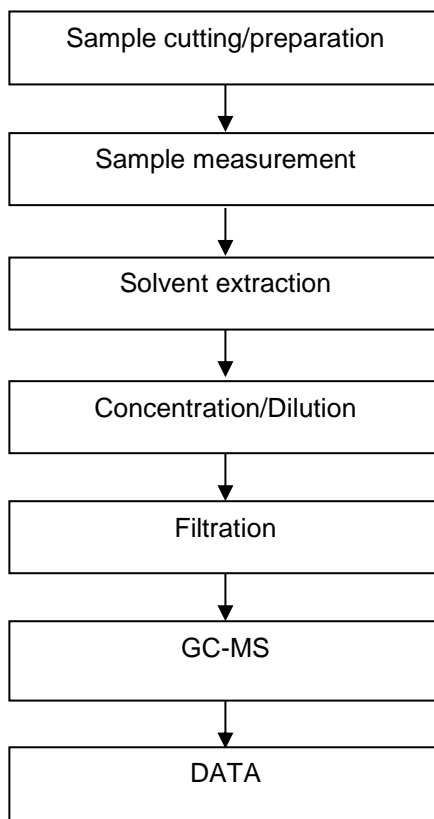


## PBBs/PBDEs Testing Flow Chart





## Phthalates Testing Flow Chart



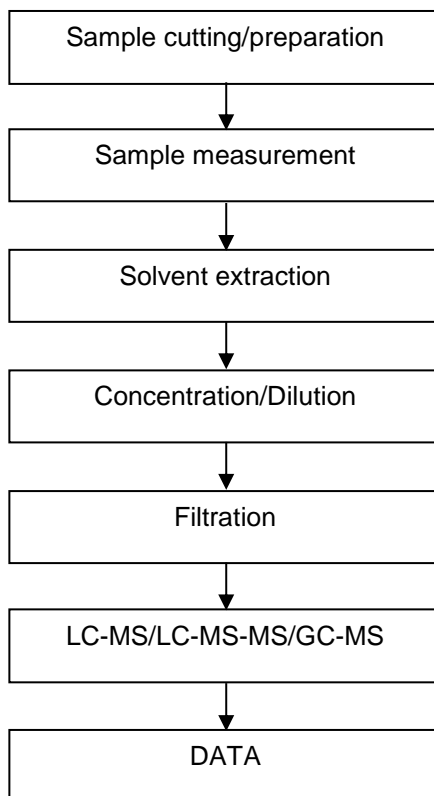
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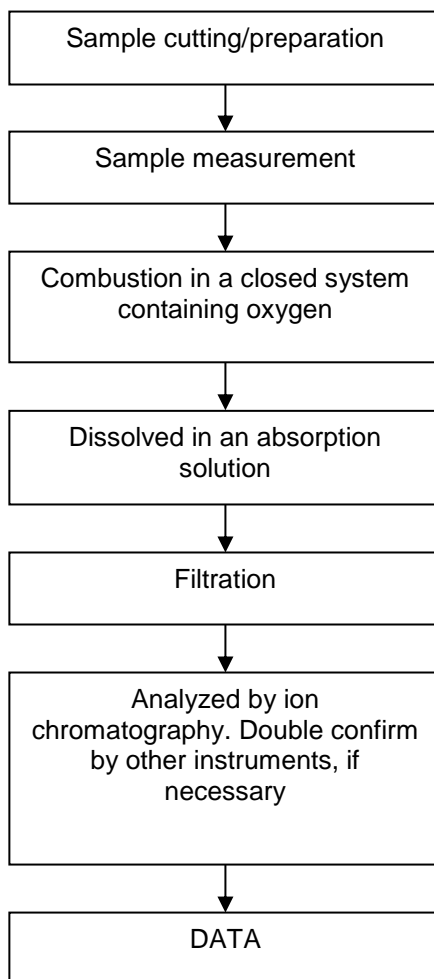
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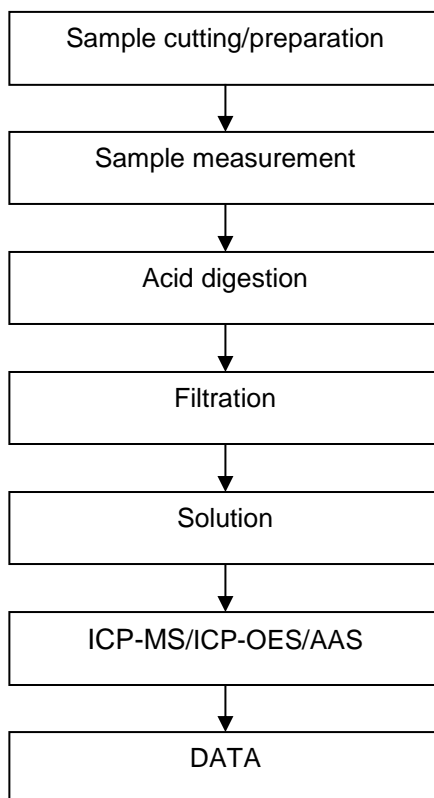
## PFASs/ PFOS/PFOA Testing Flow Chart



#### Halogen Testing Flow Chart

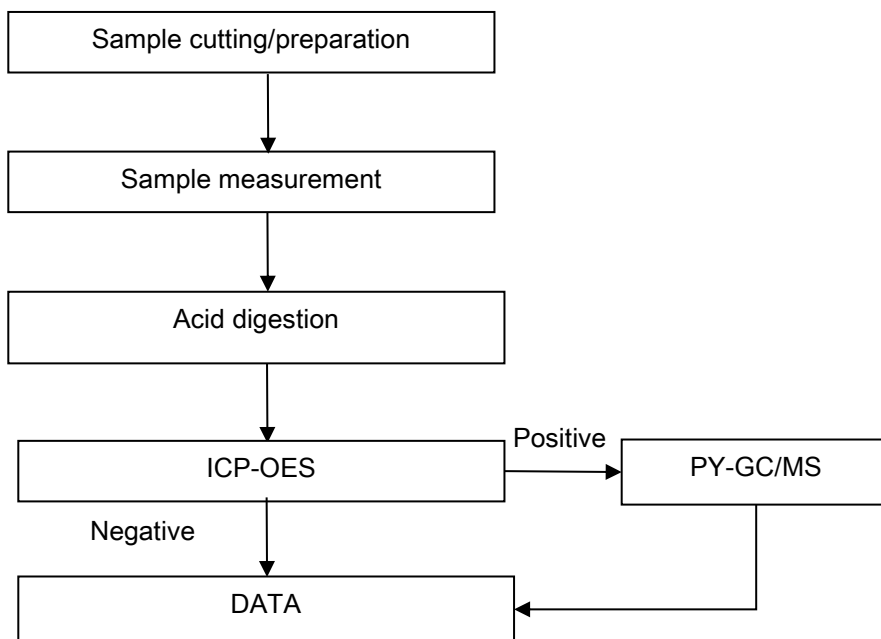


## Elements Testing Flow Chart



### ATTACHMENTS

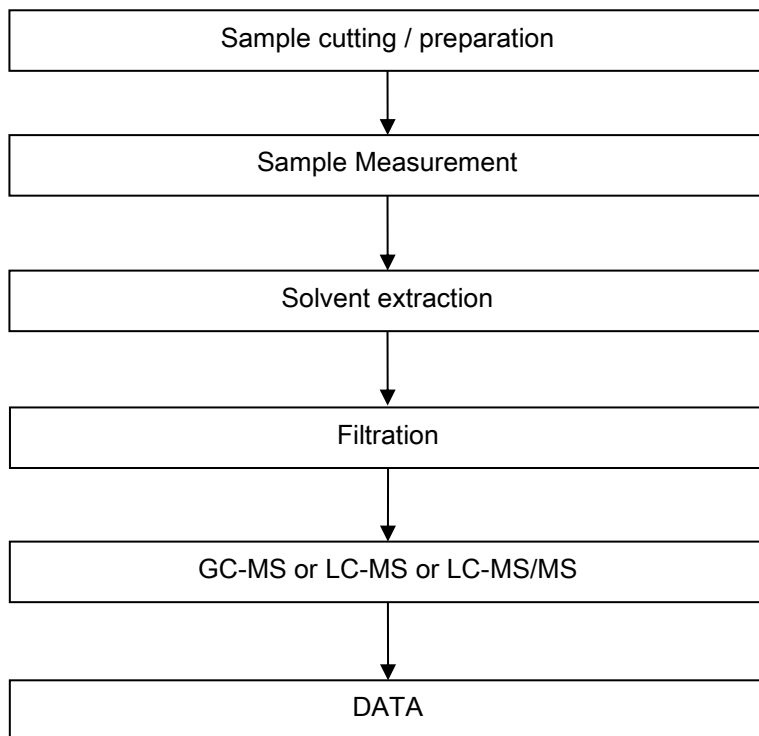
#### Red phosphorus Testing Flow Chart





### ATTACHMENTS

#### TBBP-A Testing Flow Chart



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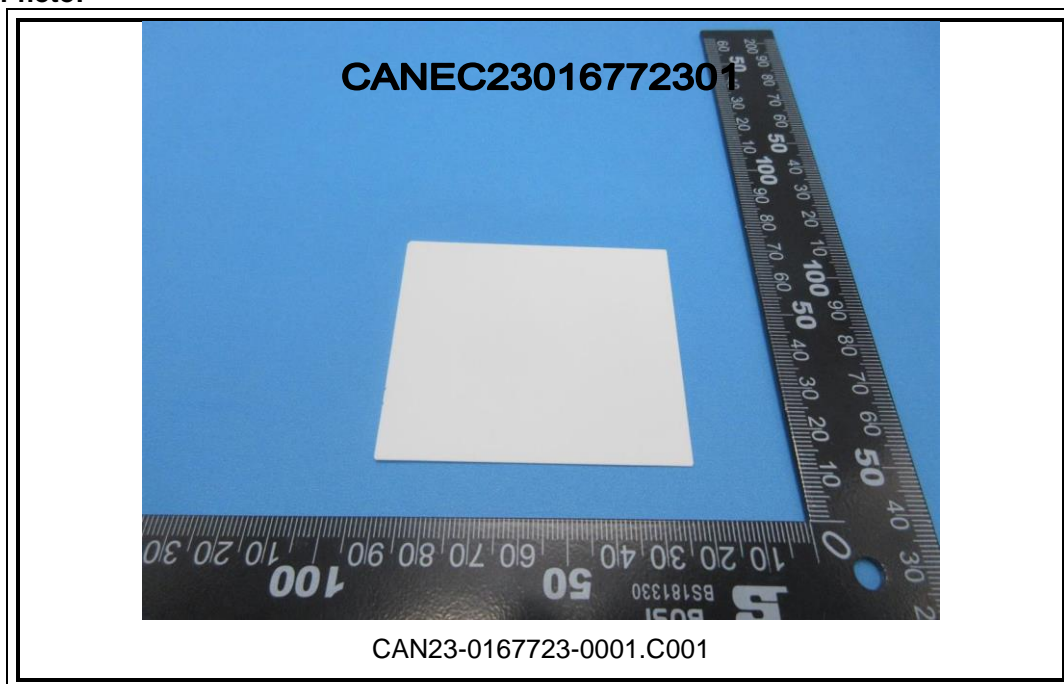
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