

Test Report



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Report No. A2250268284101001

Company Name AMPLE ELECTRONIC TECHNOLOGY CO., LTD
shown on Report

Address NO.32, DAYOU 3RD ST., DALIAO DIST., KAOHSIUNG CITY 83163, TAIWAN

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

Sample Name metallic conductor paste
Model No. PR2060、PR2070、PR2130、PR2132、PR2135、PR2138、PR2140、PR2145、
PR2150、PR2153、PR2155、PR2168、PR2170、PR2180、PR2185、PR2190、
PR2230、PR2260、PR2267、PR2270、PR2275、PR2280、PR2300、PR2367、
PR2380、PR2400、PR2500、PR2505、PR2565、PR2700、PR2703、PR2705、
PR2750、PR2755、PR2760、PR2767、PR2768、PR2770、PR2775、PR2780、
PR2820、PR2830、PR2840、PR2850、PR2860、PR2868、PR2978、PR2979、
PR2980、PR2982、PR2985、PR2890、PR2995、PR20158、PR7064、PR7050、
PR7070、PR7045、PR22360、PR22470、PR22520、PR22580、PR22680、
PR22690、PR22700、PR22741、PR22742、PR22743、PR22760、22741、
22603、PT8070、PR52767、PR72982、PR72980、PR72978、PC PASTE

Sample Received Date Apr. 24, 2025
Testing Period Apr. 24, 2025 to Apr. 30, 2025

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 (DBP, BBP, DEHP, DIBP), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Phthalates, Antimony(Sb), Arsenic(As), Beryllium(Be), Selenium(Se), Hexabromocyclododecane (HBCDD), Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctanesulfonic acid (PFOS) and its salts & related substances, Polychlorinated Biphenyls(PCBs), Polychlorinated Naphthalenes (PCNs), Polychlorinated terphenyls (PCTs), Red phosphorus in the submitted sample(s).

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

Test Result(s) Please refer to the following page(s)



George Fong

Date

Apr. 30, 2025

George Fong
Laboratory Manager

No. R175251027

Testing Center, Centre Testing International (Taiwan) Co., Ltd.
Testing Services

5F-6, No.9, Sec.2, Nankan Rd, Luzhu Dist., Taoyuan, Taiwan

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Test Method

Test 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 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Fluorine (F)	Refer to EN 14582:2016	IC
Chlorine (Cl)	Refer to EN 14582:2016	IC
Bromine (Br)	Refer to EN 14582:2016	IC
Iodine (I)	Refer to EN 14582:2016	IC
Phthalates	IEC 62321-8:2017	GC-MS
Polychlorinated Naphthalenes (PCNs)	Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS
Polychlorinated Biphenyls (PCBs)	Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS
Polychlorinated terphenyls (PCTs)	Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS
Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS
Beryllium (Be)	Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
Arsenic (As)	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
Selenium (Se)	Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
Perfluorooctanoic acid (PFOA) and its salts	Modified EN 17681-1:2022 & EN 17681-2:2022	LC-MS-MS
Perfluorooctanesulfonic acid (PFOS) and its salts & related substances	Modified EN 17681-1:2022 & EN 17681-2:2022	LC-MS-MS
Red phosphorus	GB/T 6040-2019, GB/T 9722-2023, GB/T 17359-2023, EPA 6010D:2018	ICP-OES, PY-GC-MS, FTIR, EM

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Test Result(s)

Tested Item(s)	Result	MDL
	001	
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
	001	
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
	001	
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

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Test Result(s)

Tested Item(s)	Result	MDL
	001	
Phthalates (DBP, BBP, DEHP, DIBP)		
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
	001	
Fluorine (F)	N.D.	50 mg/kg
Chlorine (Cl)	N.D.	50 mg/kg
Bromine (Br)	N.D.	50 mg/kg
Iodine (I)	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
	001	
Phthalates		
Bis(2-methoxyethyl) phthalate (DMEP) CAS#:117-82-8	N.D.	50 mg/kg
Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3	N.D.	50 mg/kg
Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0	N.D.	50 mg/kg
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50 mg/kg
Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	50 mg/kg
Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	50 mg/kg
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) CAS#:71888-89-6	N.D.	50 mg/kg
1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP) CAS#:68515-42-4	N.D.	50 mg/kg

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Test Result(s)

Tested Item(s)	Result	MDL
	001	
Selenium (Se)	N.D.	5 mg/kg
Antimony (Sb)	N.D.	2 mg/kg
Beryllium (Be)	N.D.	2 mg/kg
Arsenic (As)	N.D.	2 mg/kg
Tested Item(s)	Result	MDL
	001	
Polychlorinated Biphenyls(PCBs)		
Monochlorobiphenyl	N.D.	5 mg/kg
Dichlorobiphenyl	N.D.	5 mg/kg
Trichlorobiphenyl	N.D.	5 mg/kg
Tetrachlorobiphenyl	N.D.	5 mg/kg
Pentachlorobiphenyl	N.D.	5 mg/kg
Hexachlorobiphenyl	N.D.	5 mg/kg
Heptachlorobiphenyl	N.D.	5 mg/kg
Octachlorobiphenyl	N.D.	5 mg/kg
Nonachlorobiphenyl	N.D.	5 mg/kg
Decachlorobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
	001	
Polychlorinated Triphenyls (PCTs)	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
	001	
Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg
Tested Item(s)	Result	MDL
	001	
Polychlorinated Naphthalenes (PCNs)	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
	001	
Red phosphorus ^{#1}	N.D.	500 mg/kg

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Test Result(s)

Tested Item(s)	CAS No.	Result	MDL
		001	
Perfluorooctanoic acid (PFOA) and its salts			
Perfluorooctanoic acid (PFOA)	335-67-1	N.D.	0.01 mg/kg
Ammonium pentadecafluorooctanoate (APFO)*	3825-26-1	N.D.	0.01 mg/kg
Sodium perfluorooctanoate (PFOA-Na)*	335-95-5	N.D.	0.01 mg/kg
Potassium perfluorooctanoate (PFOA-K)*	2395-00-8	N.D.	0.01 mg/kg
Silver perfluorooctanoate (PFOA-Ag)*	335-93-3	N.D.	0.01 mg/kg
Perfluorooctanoyl fluoride (PFOA-F)*	335-66-0	N.D.	0.01 mg/kg

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Test Result(s)

Tested Item(s)	CAS No.	Result	MDL
		001	
Perfluorooctanesulfonic acid (PFOS) and its salts & related substances			
Perfluorooctane Sulfonates (PFOS)	1763-23-1	N.D.	0.01 mg/kg
Perfluorooctanesulfonic acid, potassium salt (PFOS-K)*	2795-39-3	N.D.	0.01 mg/kg
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)*	29457-72-5	N.D.	0.01 mg/kg
Sodium perfluorooctane sulfonate (PFOS-Na)*	4021-47-0	N.D.	0.01 mg/kg
1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-, magnesium salt (2:1) (PFOS-Mg)*	91036-71-4	N.D.	0.01 mg/kg
Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)*	29081-56-9	N.D.	0.01 mg/kg
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)*	70225-14-8	N.D.	0.01 mg/kg
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)*	56773-42-3	N.D.	0.01 mg/kg
Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-DDA)*	251099-16-8	N.D.	0.01 mg/kg
Perfluoro-1-octanesulfonyl fluoride (PFOSF)*	307-35-7	N.D.	0.01 mg/kg
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate*	71463-74-6	N.D.	0.01 mg/kg
N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2	N.D.	0.05 mg/kg
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8	N.D.	0.05 mg/kg
2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2	N.D.	0.05 mg/kg
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- 2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7	N.D.	0.05 mg/kg
Perfluorooctanesulfonamide (PFOSA)	754-91-6	N.D.	0.01 mg/kg

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Sample/Part Description

No.	CTI Sample ID	Description
1	001	Silver gray plate

Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Selenium, Antimony, Beryllium, Arsenic.**

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

-*=Result(s) shown of the substance(s) is/ are converted from the result(s) of certain compound(s).

-The PFAS listed are examples only. The list does not include all the PFAS salts with the same carbon number.

Note: **#1:indicates the testing item(s) was (were) fulfilled by Centre Testing International (Suzhou) Co.,Ltd.**

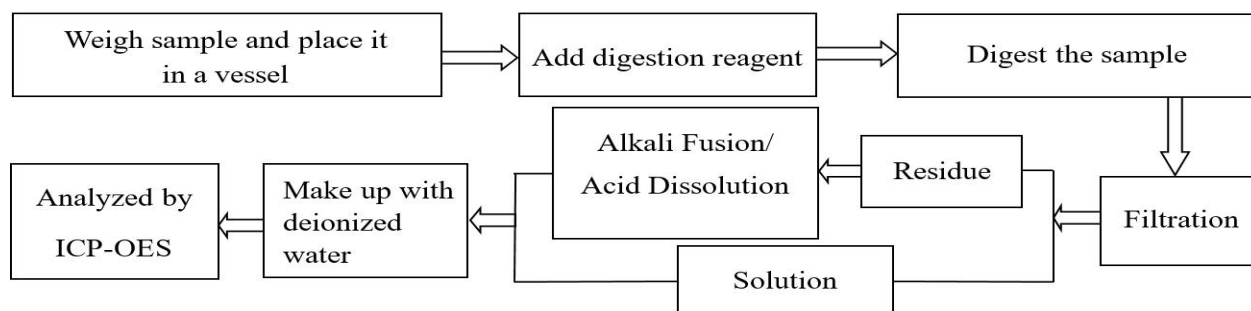
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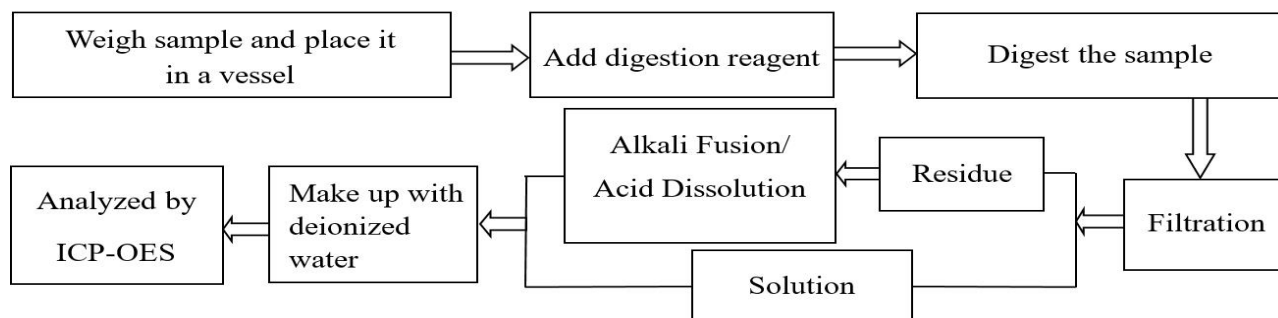
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Test Process

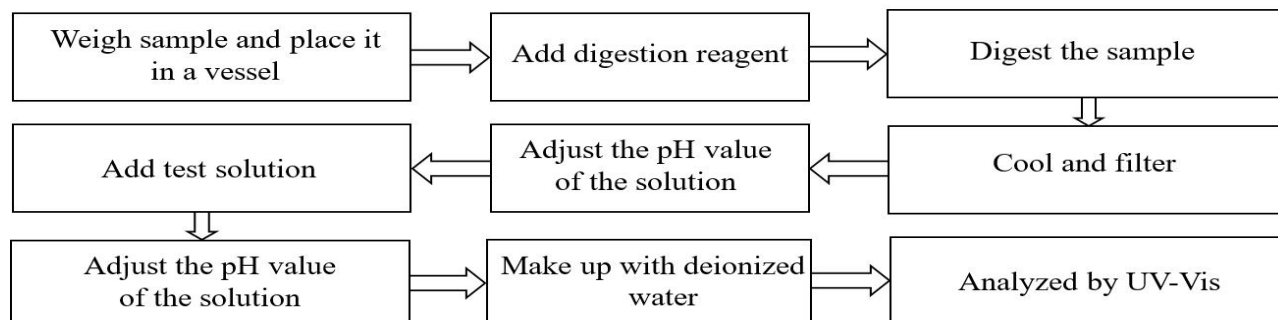
1. Lead (Pb), Cadmium (Cd), Chromium(Cr)



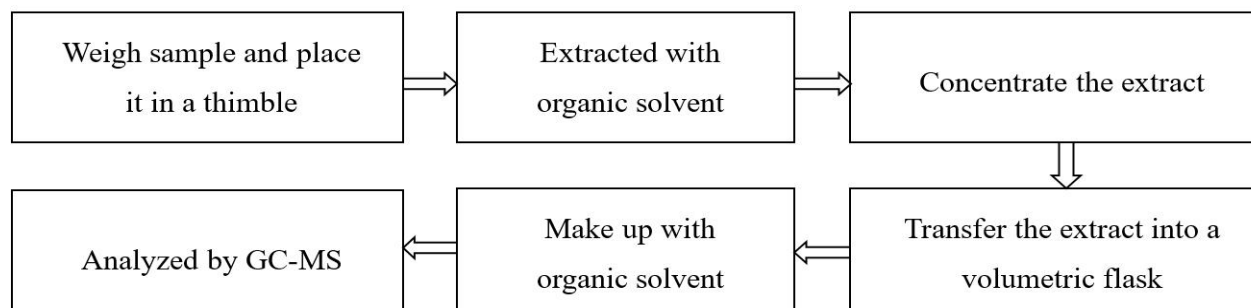
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



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

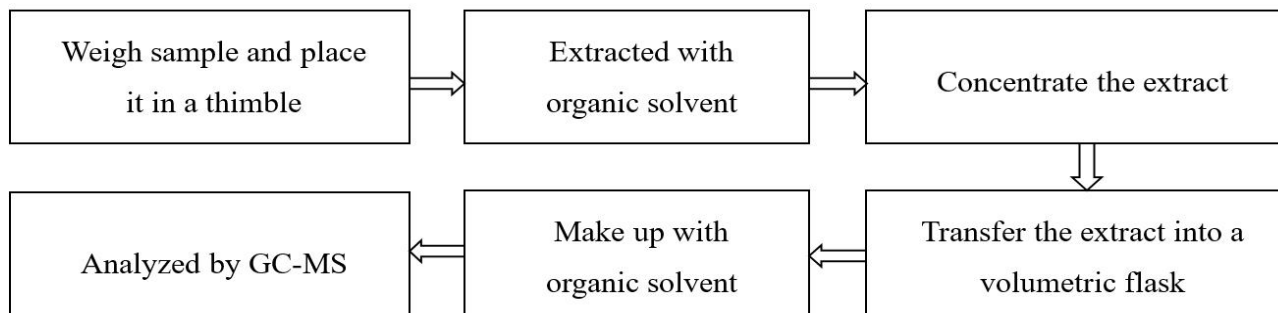


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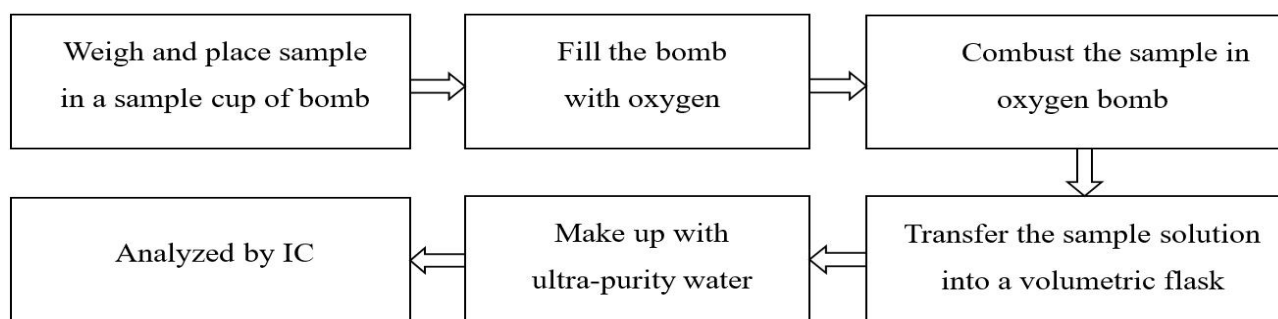
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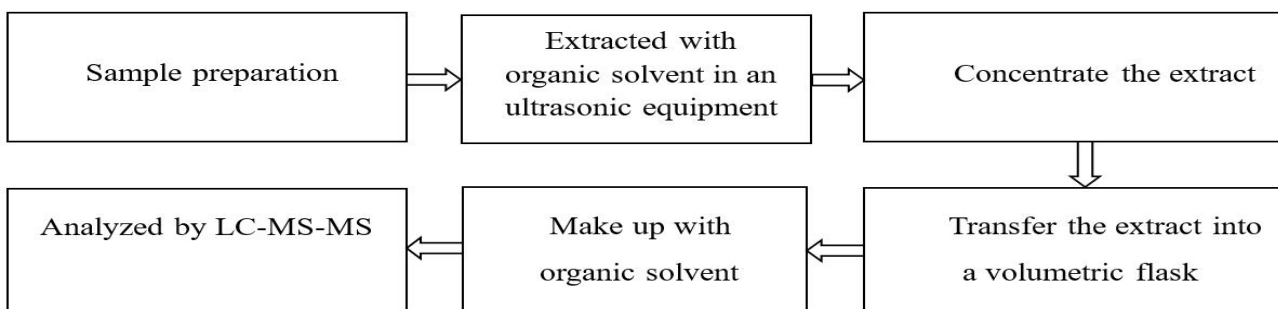
5. Phthalates (DBP, BBP, DEHP, DIBP), Phthalates



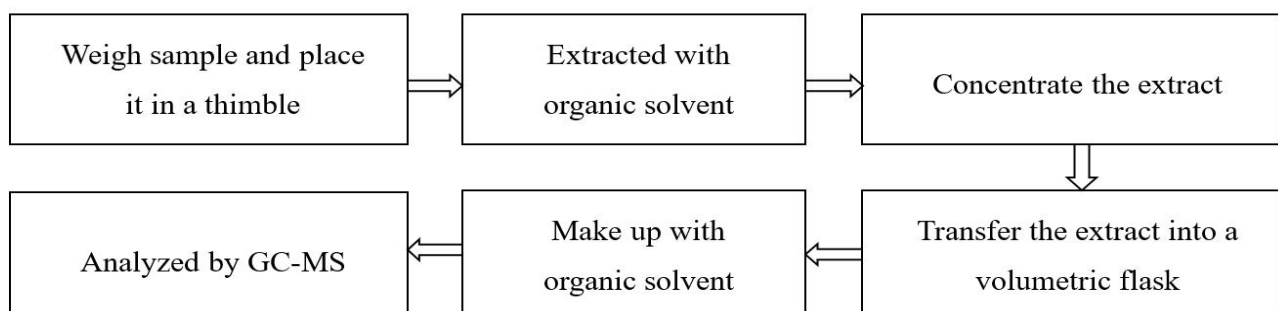
6. Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)



7. Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctanesulfonic acid (PFOS) and its salts & related substances



8. Polychlorinated Biphenyls(PCBs), Polychlorinated Naphthalenes (PCNs), Polychlorinated terphenyls (PCTs)

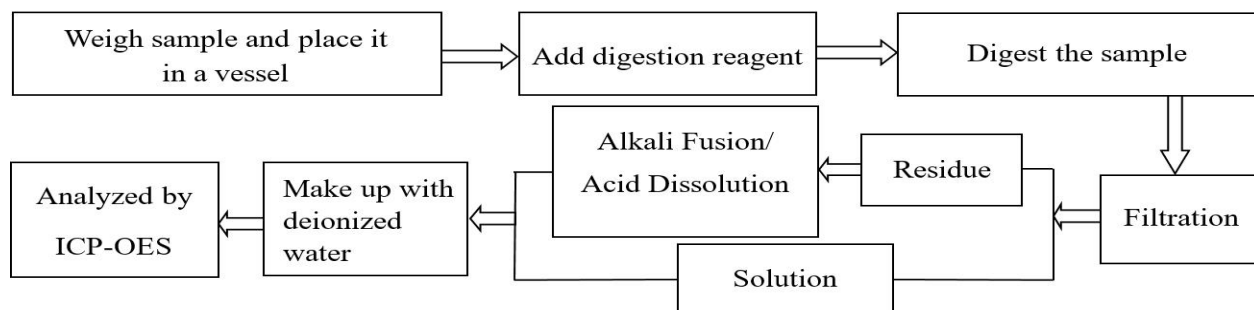


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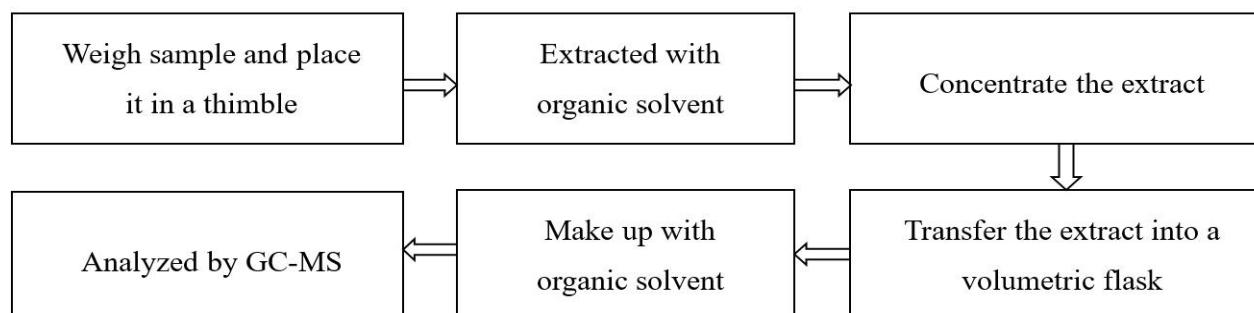
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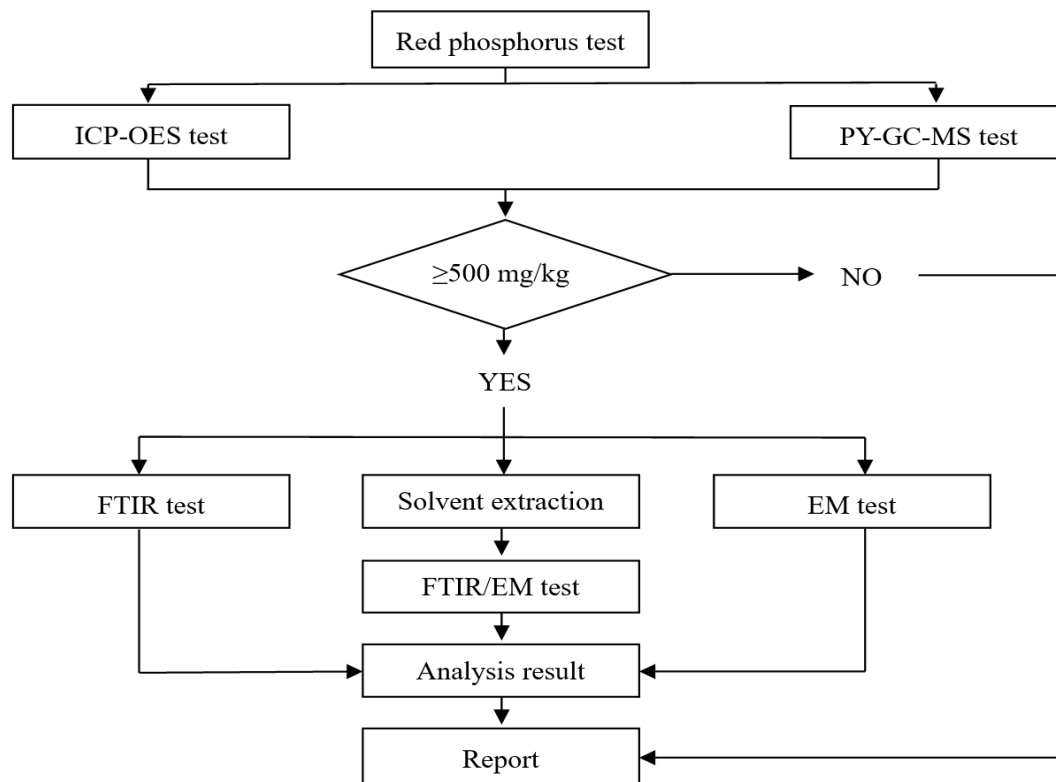
9. Selenium(Se), Beryllium(Be), Arsenic(As), Antimony(Sb)



10. Hexabromocyclododecane (HBCDD)



11. Red phosphorus



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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. Without written approval of CTI, this report can't be reproduced except in full;
5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of report ***