HERAEUS MATERIALS SINGAPORE PTE LTD
26 PIONEER CRESCENT, #06-11/12 WEST PARK BIZCENTRAL, SINGAPORE 628558

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

Sample Name	:	Solder Wire PbSn2Ag2.5

SGS Order No.	:	10631638
Sample ID	:	SGA26-0000383-0014
Sample Receiving Date	:	07-Jul-2026
Testing Period	:	07-Jul-2026 to 28-Jul-2026
Test Requested	:	Selected 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)
Conclusion	:	Based on the performed tests on submitted sample(s) and the declaration from the client, the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as 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 with exemption of Annex III 7(a).

Signed for and on behalf of
SGS Testing & Control Services Singapore Pte Ltd

Scan to see the report
SGACP260003023

Tan Si Jing (Ms.)
Senior Chemist, Multi-Lab
FOLDER NUMBER : SGA26-0000383

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Test Result(s) :

Sample Description : SILVER COLORED WIRE

Test Item(s)	Unit	Method	Results	MDL	Limit
Lead(Pb)	mg/kg	With reference to IEC 62321-5:2013. Analysis was performed by ICP/OES	944400	2	▲
Mercury(Hg)	mg/kg	With reference to IEC 62321-4 :2013 +AMD1:2017. Analysis was performed by ICP/OES	ND	2	<1000
Cadmium(Cd)	mg/kg	With reference to IEC 62321-5:2013. Analysis was performed by ICP/OES	ND	2	<100
Hexavalent Chromium (Cr(VI)) ▼	μg/cm²	With reference to IEC 62321-7-1:2015. Analysis was performed by UV-Vis Spectrometry.	ND	0.10	-
Polybromobiphenyl (PBBs)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	-	<1000
Monobromobiphenyl (MonoBB)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Dibromobiphenyl (DiBB)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Tribromobiphenyl (TriBB)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Tetrabromobiphenyl (TetraBB)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Pentabromobiphenyl (PentaBB)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Hexabromobiphenyl (HexaBB)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Heptabromobiphenyl (HeptaBB)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Octabromobiphenyl (OctaBB)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Nonabromobiphenyl (NonaBB)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Decabromobiphenyl (DecaBB)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-

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Test Item(s)	Unit	Method	Results	MDL	Limit
Polybromodiphenyl ether(PBDEs)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	-	<1000
Monobromodiphenylether (MonoBDE)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Dibromodiphenylether (DiBDE)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Tribromodiphenylether (TriBDE)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Tetrabromodiphenylether (TetraBDE)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Pentabromodiphenylether (PentaBDE)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Hexabromodiphenylether (HexaBDE)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Heptabromodiphenylether (HeptaBDE)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Octabromodiphenylether (OctaBDE)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Nonabromodiphenylether (NonaBDE)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Decabromodiphenylether (DecaBDE)	mg/kg	With reference to IEC62321-6 :2015. Analysis was performed by GC/MS	ND	5	-
Bis-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	With reference to IEC62321-8 :2017. Analysis was performed by GC/MS	ND	50	<1000
Benzyl Butyl Phthalate(BBP)	mg/kg	With reference to IEC62321-8 :2017. Analysis was performed by GC/MS	ND	50	<1000
Dibutyl Phthalate(DBP)	mg/kg	With reference to IEC62321-8 :2017. Analysis was performed by GC/MS	ND	50	<1000
Diisobutyl Phthalate(DIBP)	mg/kg	With reference to IEC62321-8 :2017. Analysis was performed by GC/MS	ND	50	<1000

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Test Item(s)	Unit	Method	Results	MDL	Limit
Fluorine(F)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC	ND	50	-
Chlorine(Cl)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC	ND	50	-
Bromine(Br)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC	ND	50	-
Iodine(I)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC	ND	50	-
Beryllium(Be)	mg/kg	With reference to US EPA 3050B:1996. Analysis was performed by ICP/OES	ND	2	-
Antimony(Sb)	mg/kg	With reference to US EPA 3051A. Analysis was performed by ICP/OES	ND	2	-
Hexabromocyclododecane (HBCDD)	mg/kg	With reference to IEC 62321:2008. Analysis was performed by GC-MS.	ND	20	-
PFOS and its salts (CAS No.: 1763-23-1 and its salts)*	mg/kg	Modified EN 17681-1:2025. Analysis was performed by LC-MS/MS.	ND	0.01	-
PFOA and its salts (CAS No.: 335-67-1 and its salts)*	mg/kg	Modified EN 17681-1:2025. Analysis was performed by LC-MS/MS.	ND	0.01	-

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Remarks:

(1) mg/kg = ppm ; 0.1wt% = 1000ppm
(2) ND = Not Detected (Less than MDL)
(3) MDL = Method Detection Limit
(4) "-" = Not regulated
(5) "▲" = According to the declaration from the client, it is exempted on the RoHS exemption list.

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) ▼ =
a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 µg/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 µg/cm2). The coating is considered a non-Cr(VI) based coating.
c. The result between 0.10 µg/cm2 and 0.13 µg/cm2 is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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. According to this rule, the judgement of conformity is based on the comparing test results with limits.

* Tested by an SGS Lab (Ref : ETR26701716)

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PFAS Remark:

The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.).

Group Name	Substance Name	CAS No.
PFOS, its salts & derivatives	Perfluorooctane sulfonates (PFOS)	1763-23-1
	Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	Perfluorooctanesulfonic acid, ammonium salt (PFOS- NH_4)	29081-56-9
	Perfluorooctane sulfonate diethanolamine salt (PFOS- $NH((C_2H_4OH)_2)$)	70225-14-8
	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-$N(C_2H_5)_4$)	56773-42-3
	N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8
	TetrabutylAmmonium perfluorooctanesulfonate (PFOS-$N(C_4H_9)_4$)	111873-33-7
	Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	Perfluorooctanesulfonic acid, magnesium salt (PFOS- Mg)	91036-71-4
	Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
	Perfluorooctanesulfonate (anion)	45298-90-6
	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-$N(C_2H_5)_3$)	54439-46-2
	Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-$N(CH_3)_4$)	56773-44-5
	1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-$N(C_3H_7)_3(C_5H_{11})$)	56773-56-9
	1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-$N(C_4H_9)_3(CH_3)$)	124472-68-0
	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	213740-80-8
	Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	258341-99-0

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Group Name	Substance Name	CAS No.
PFOS, its salts & derivatives	Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	334529-63-4
	1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	773895-92-4
	Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P(C_4H_9)$_4$))	2185049-59-4
	Perfluorooctanesulfonic acid diethylamine salt (PFOS-$C_4H_{11}N$)	2205029-08-7
	Heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium perfluorooctanesulfonate (PFOS-$C_{15}H_{30}NO_2$)	1203998-97-3
	1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, 1,1'-anhydride (PFOSAN)	423-92-7
	Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)	423-60-9
PFOA, its salts & derivatives	Perfluorooctanoic acid (PFOA)	335-67-1
	Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	Silver perfluorooctanote (PFOA-Ag)	335-93-3
	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
	Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
	Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3^+) (PFOA-Cr(3^+))	68141-02-6
	Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH($C_4H_{10}N$)	423-52-9
	Pentadecafluorooctanoate (anion)	45285-51-6
	Perfluorooctanoic Anhydride	33496-48-9
	Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	98241-25-9
	Tetramethylammoniumperfluoroctanoat	32609-65-7
	1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)	277749-00-5
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K(H_2O)$_2$)	98065-31-7
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA-C_2H_7N)	1376936-03-6
	Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI) (PFOA-C_5H_5N)	95658-47-2

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Group Name	Substance Name	CAS No.
PFOA, its salts & derivatives	Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-$C_{10}H_{14}N_2$)	1514-68-7
	1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) (PFOA- $C_{11}H_{26}N$)	927835-01-6
	Pentadecafluorooctanoyl chloride (PFOA-Cl)	335-64-8
	Perfluorooctanoyl Bromide (PFOA-Br)	222037-87-8

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Sample Photo:



SGA26-0000383-0014

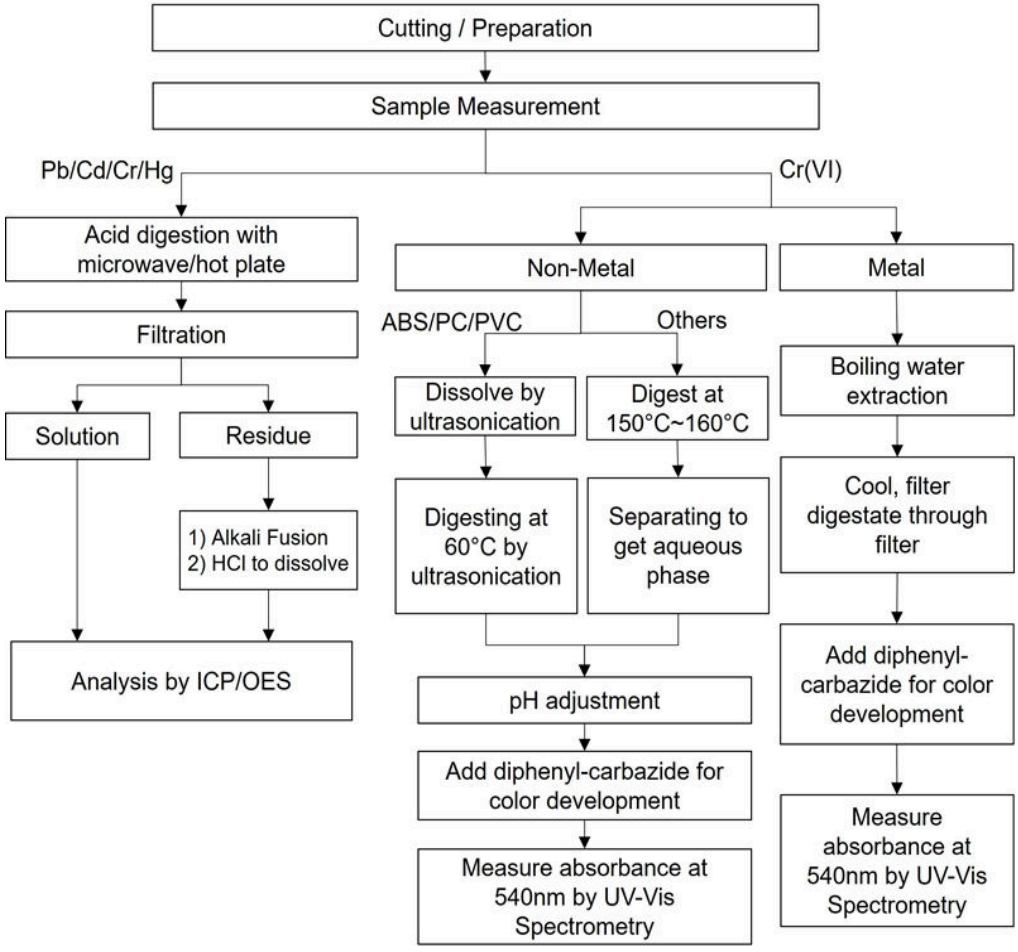
SGS authenticate the photo on original report only

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Analytical flow chart - Heavy metals

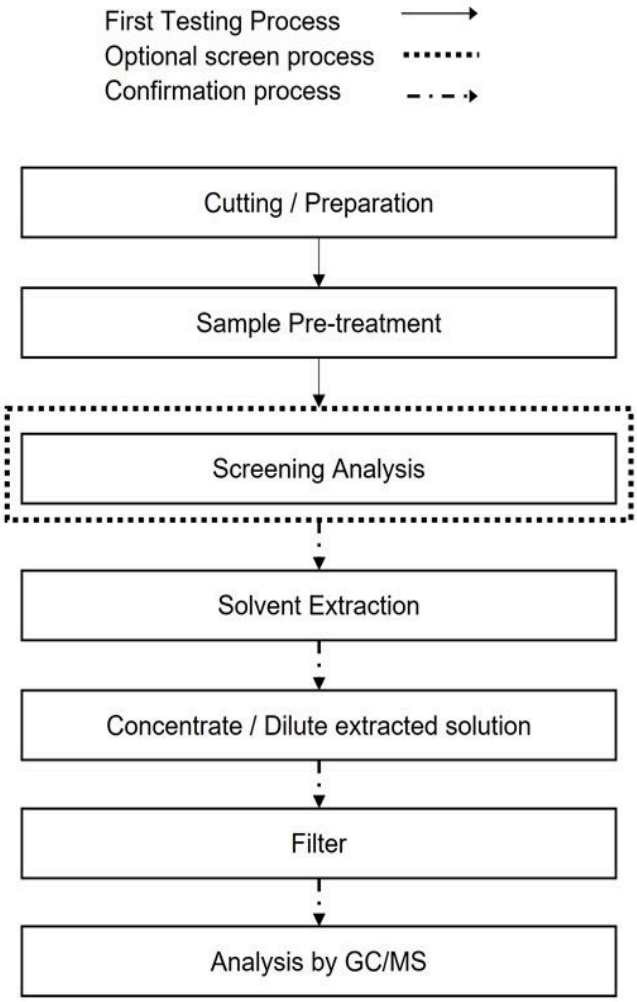
Sample received was totally dissolved by preconditioning method.
[Cr(VI) test method excluded]



FOLDER NUMBER : SGA26-0000383

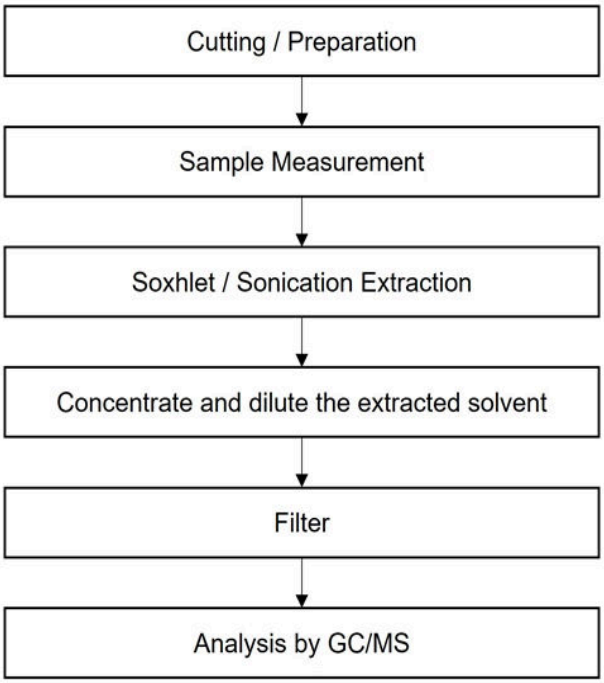
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Analytical flow chart - PBBs and PBDEs



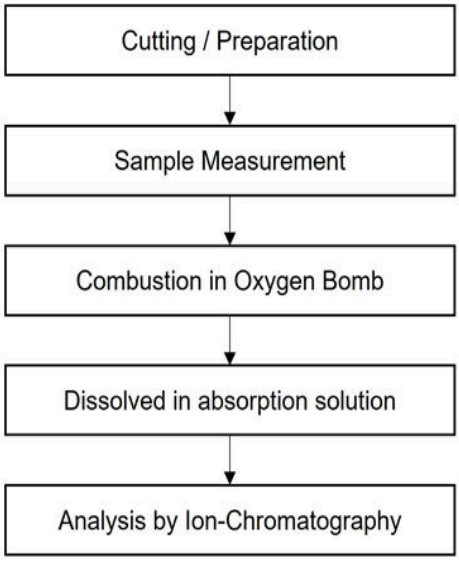
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Analytical flow chart – Phthalates (IEC 62321)



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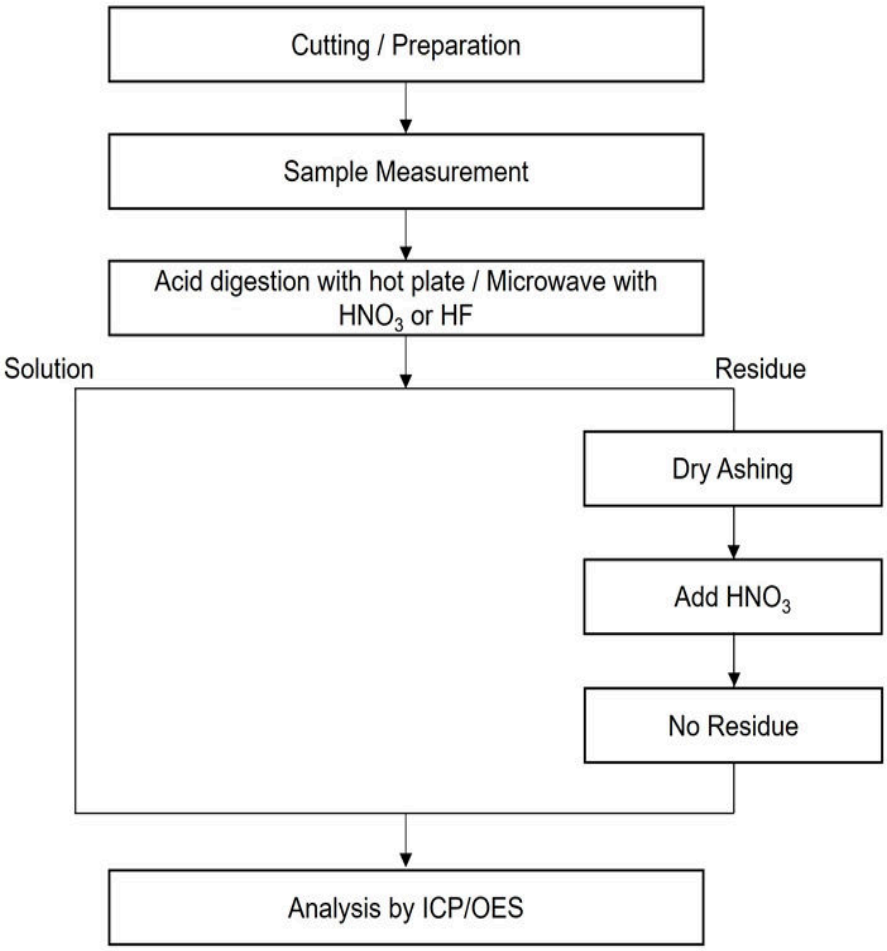
Analytical flow chart - Halogen



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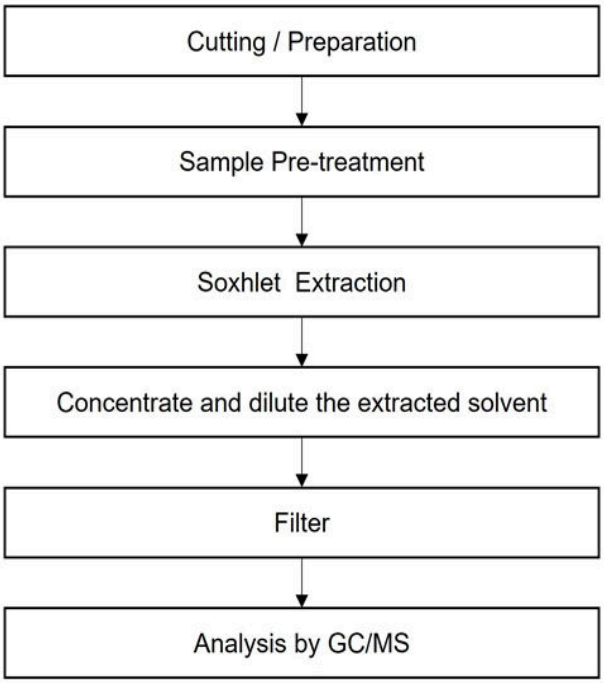
Analytical flow chart - Heavy metals (US EPA 3050B/3051A/3052)



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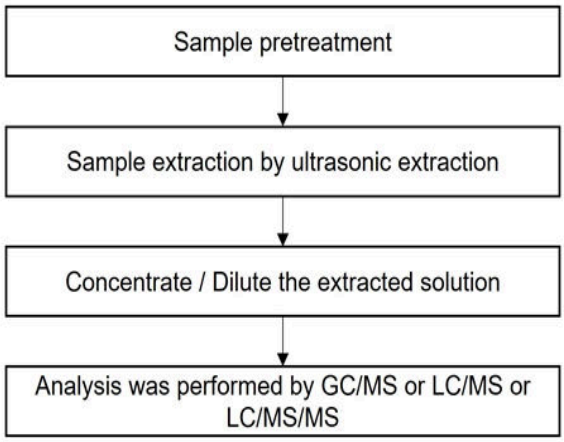
Analytical flow chart – HBCDD



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Analytical flow chart – PFAS (including PFOA/PFOS/its related compounds)



End of Report

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