

Test Report

No.: SHAEC23003310101

Date: Apr 06, 2023

Page 1 of 21

Client Name: SH ELECTRONICS SUZHOU CO., LTD.

Client Address: NO.123,LongtanRd.3rd District, Suzhou Industrial Park,Suzhou,Jiangsu,China(215126).

Sample Name: SILVER (Lead Frame Plated Layer)

Model No.: SILVER (Plated Layer)

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

SGS Job No.: SP23-008152

Sample Receiving Date: Mar 24, 2023

Testing Period: Mar 24, 2023 ~ Mar 30, 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
Chlorinated Paraffins	See Results
Elements	See Results
Halogen	See Results
Organic-Tin compounds	See Results
Phthalates	See Results
Polychlorinated Biphenyls (PCBs)	See Results
Polychlorinated Naphthalenes (PCNs)	See Results
Polychlorinated Terphenyls (PCTs)	See Results

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Tom Ni

Tom Ni
Approved Signatory

scan to see the report



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Test Report

No.: SHAEC23003310101

Date: Apr 06, 2023

Page 2 of 21

Test Requirement	Conclusion
Polyvinyl chloride (PVC)	Pass
Hexabromocyclododecane (HBCDD)	See Results
Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA)	See Results

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA23-0033101-0001.C001	Silver Metal

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:
- (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
 - (2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
 - (3) With reference to IEC 62321-4:2013+AMD1:2017, determination of Mercury by ICP-OES.
 - (4) With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
 - (5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
 - (6) With reference to IEC 62321-8:2017, determination of phthalates by 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))▼	-	µg/cm ²	0.10	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



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Test Report

No.: SHAEC23003310101

Date: Apr 06, 2023

Page 3 of 21

Test Item(s)	Limit	Unit(s)	MDL	A1
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
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) ▼ = 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.

Chlorinated Paraffins

Test Method: With reference to US EPA 3550C:2007, analysis was performed by GC-ECD / GC-NCI-MS/GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Short Chain Chlorinate Paraffins(SCCP)(C10-C13)	85535-84-8	mg/kg	50	ND

Elements

Test Method: With reference to US EPA 3050B: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
Antimony(Sb)	mg/kg	10	ND
Beryllium Oxide(BeO)◆	mg/kg	15	ND
Antimony Trioxide(Sb ₂ O ₃)◆	mg/kg	12	ND
Diarsenic Pentaoxide(As ₂ O ₅)◆	mg/kg	10	ND



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Test Report

No.: SHAEC23003310101

Date: Apr 06, 2023

Page 4 of 21

Test Item(s)	Unit(s)	MDL	A1
Diarsenic Trioxide(As ₂ O ₃) ◆	mg/kg	10	ND

Notes:

- (1) ◆BeO: Calculate from Beryllium content.
- (2) ◆Sb₂O₃: Calculate from Antimony content.
- (3) ◆As₂O₅: Calculate from Diarsenic content.
- (4) ◆As₂O₃: Calculate from Diarsenic content.

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	50	ND
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

Organic-Tin compounds

Test Method: With reference to DIN 38407-13:2001, analysis was performed by GC-MS.

Test Item(s)	Unit(s)	MDL	A1
Dibutyl tin(DBT)	mg/kg	0.5	ND
Tributyl tin(TBT)	mg/kg	0.5	ND
Diocetyl tin(DOT)	mg/kg	0.5	ND
Tri-n-propyltin chloride(TPT)	mg/kg	0.5	ND

Phthalates

Test Method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

Test Item(s)	Unit(s)	MDL	A1
Dibutyl Phthalate(DBP)	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	ND
Diisononyl Phthalate (DINP)	mg/kg	50	ND
Di-n-Octyl Phthalate(DNOP)	mg/kg	50	ND
Diisodecyl Phthalate (DIDP)	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	mg/kg	50	ND
Bis(2-methoxyethyl)phthalate(DMEP)	mg/kg	50	ND
Di-n-Hexyl Phthalate(DnHP)	mg/kg	50	ND
Dipentyl Phthalate	mg/kg	50	ND
Diisopentyl Phthalate(DIPP)	mg/kg	50	ND
n-pentyl Isopentyl Phthalate(nPIPP)	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP)	mg/kg	50	ND
Di-n-Heptyl Phthalate(DnHpP)	mg/kg	50	ND



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Test Report

No.: SHAEC23003310101

Date: Apr 06, 2023

Page 5 of 21

Test Item(s)	Unit(s)	MDL	A1
1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters(DHNUP)	mg/kg	50	ND
1,2-benzenedicarboxylic Acid,dihexyl ester branched and linear(DHxP)	mg/kg	50	ND

Polychlorinated Biphenyls (PCBs)

Test Method: With reference to US EPA 8082A:2007, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
2,4,4'-Trichlorobiphenyl (PCB28)	7012-37-5	mg/kg	0.5	ND
2,2',5,5'-Tetrachlorobiphenyl (PCB52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'-Pentachlorobiphenyl (PCB101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5-Pentachlorobiphenyl (PCB118)	31508-00-6	mg/kg	0.5	ND
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-Hexachlorobiphenyl (PCB153)	35065-27-1	mg/kg	0.5	ND
2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB180)	35065-29-3	mg/kg	0.5	ND
Sum of PCBs	-	mg/kg	-	ND

Polychlorinated Naphthalenes (PCNs)

Test Method: With reference to US EPA 8081B:2007, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
1-Chlorinated Naphthalene	90-13-1	mg/kg	5	ND
2-Chlorinated Naphthalene	91-58-7	mg/kg	5	ND
1,4- Dichlorinated Naphthalene	1825-31-6	mg/kg	5	ND
1,5-Dichlorinated Naphthalene	1825-30-5	mg/kg	5	ND
1,2-Dichlorinated Naphthalene	2050-69-3	mg/kg	5	ND
1,8-Dichlorinated Naphthalene	2050-74-0	mg/kg	5	ND
1,2,3-Trichlorinated Naphthalene	50402-52-3	mg/kg	5	ND
1,2,3,4-Tetrachlorinated Naphthalene	20020-02-4	mg/kg	5	ND
1,2,3,4,6-Pentachlorinated Naphthalene	67922-26-3	mg/kg	5	ND
Octa-chlorinated Naphthalene	2234-13-1	mg/kg	5	ND

Polychlorinated Terphenyls (PCTs)

Test Method: With reference to US EPA 8082A: 2007, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Aroclor 5432	63496-31-1	mg/kg	0.5	ND
Aroclor 5442	12642-23-8	mg/kg	0.5	ND
Aroclor 5460	11126-42-4	mg/kg	0.5	ND

Polyvinyl chloride (PVC)

Test Method: With reference to SGS in house method, analysis was performed by FTIR/HATR.

Test Item(s)	CAS No.	Unit(s)	A1
Polyvinyl chloride (PVC)	9002-86-2	-	Negative

Notes:

(1) Negative=The sample does not contain Polyvinylchloride (PVC),Positive=The sample contains Polyvinylchloride (PVC)



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Test Report

No.: SHAEC23003310101

Date: Apr 06, 2023

Page 6 of 21

Hexabromocyclododecane (HBCDD)

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

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Hexabromocyclododecane (HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	10	ND

Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA)

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
Perfluorooctanesulfonic acid (PFOS)^	1763-23-1	mg/kg	0.01	ND
Perfluorooctanoic Acid (PFOA) and its salts+	335-67-1	mg/kg	0.01	ND

Notes:

- (1) + PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1);
- (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA (CAS No.: 251099-16-8) and POSF (CAS No.: 307-35-7).

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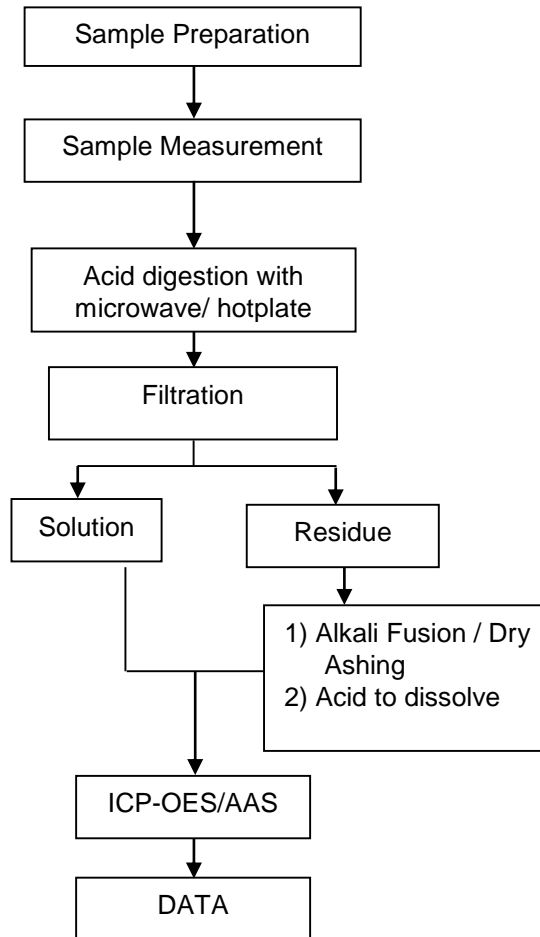
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Elements Testing Flow Chart

Name of the person who made testing: Meria Jin/Sielina Song

Name of the person in charge of testing: Luna Xu/Bob Zhang

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



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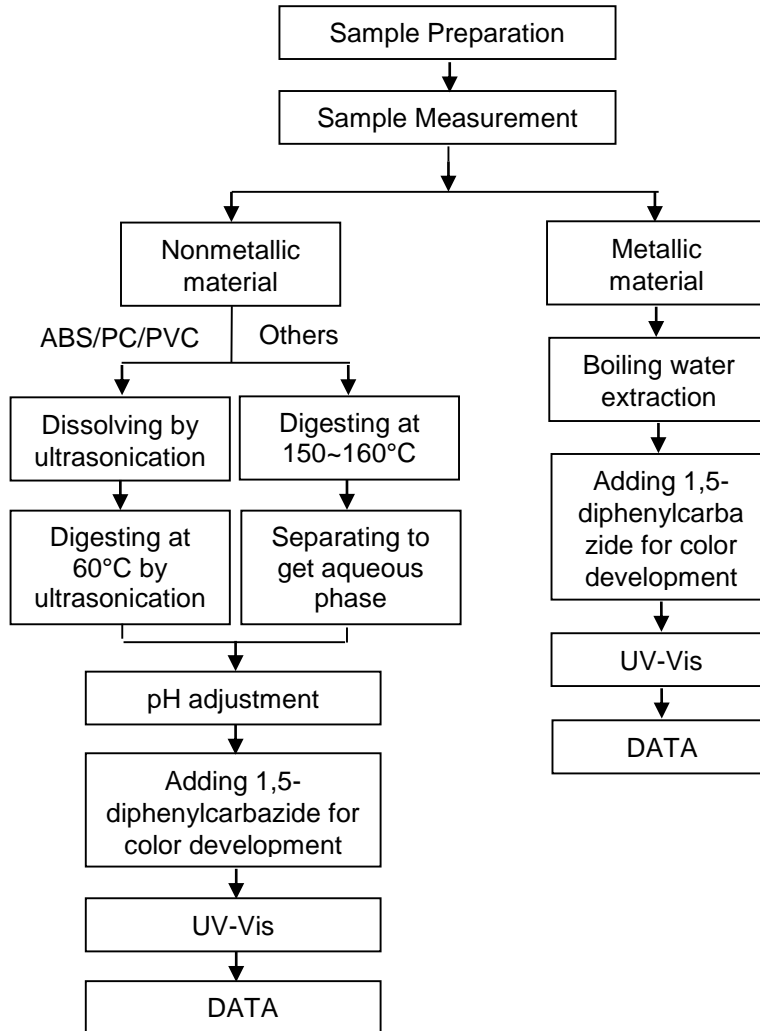
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart

Name of the person who made testing: Alex Wang

Name of the person in charge of testing: Xiaolong Yang



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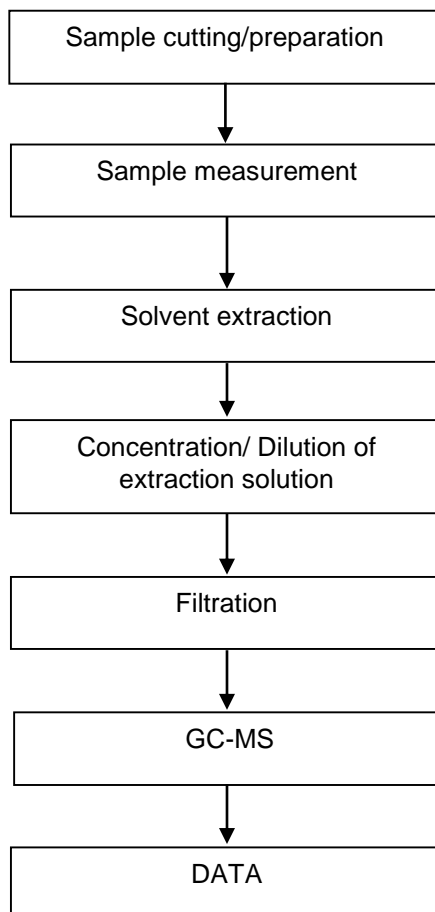
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PBBs/PBDEs Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Jason Zhang



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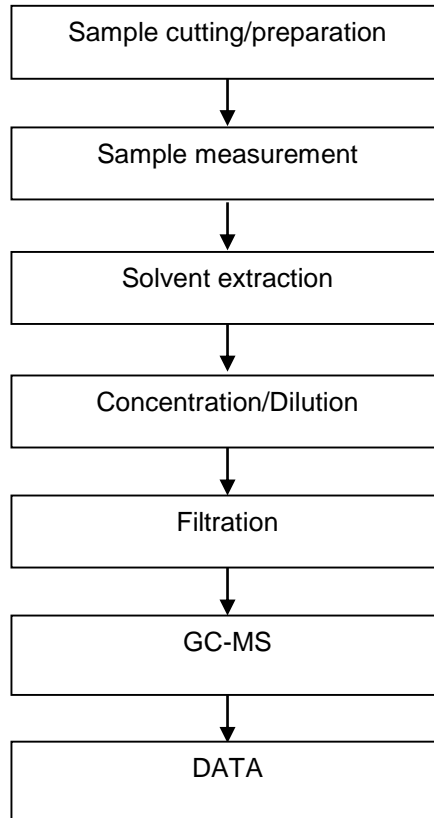
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Phthalates Testing Flow Chart

Name of the person who made testing: Iris Han

Name of the person in charge of testing: Jason Zhang



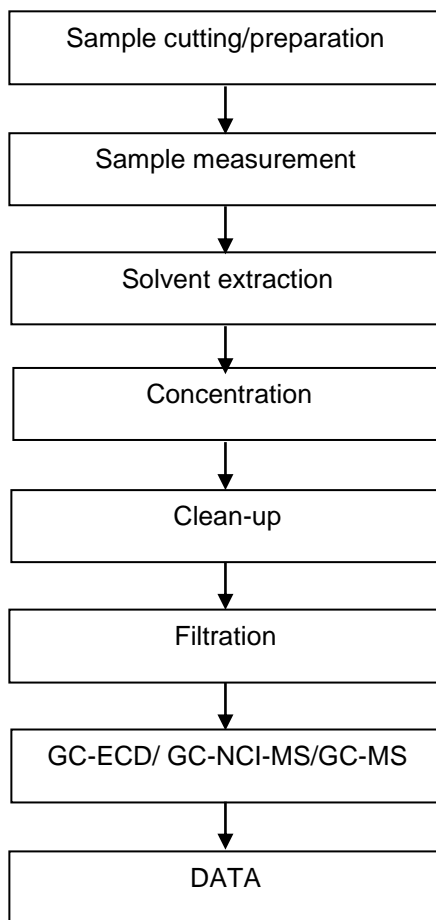
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Chlorinated Paraffin Testing Flow Chart

Name of the person who made testing: Kevin Li
 Name of the person in charge of testing: Mia Wang



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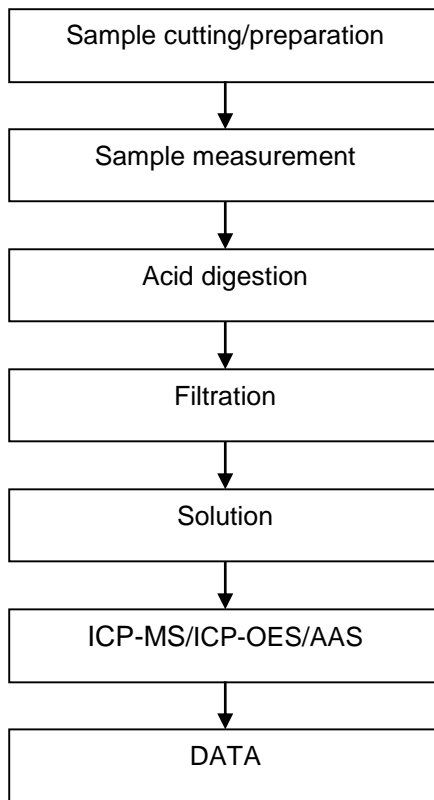
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Elements Testing Flow Chart

Name of the person who made testing: Meria Jin/Sielina Song

Name of the person in charge of testing: Luna Xu/Bob Zhang



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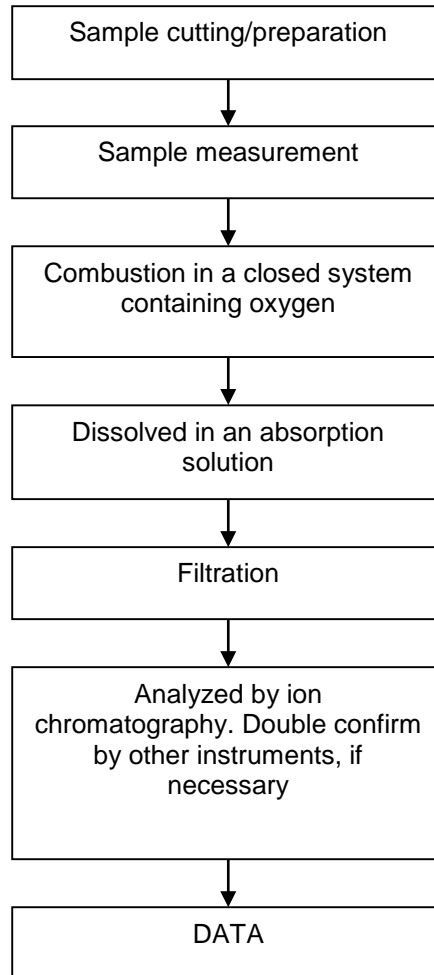
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Halogen Testing Flow Chart

Name of the person who made testing: Andy Zhang

Name of the person in charge of testing: Allen Chen



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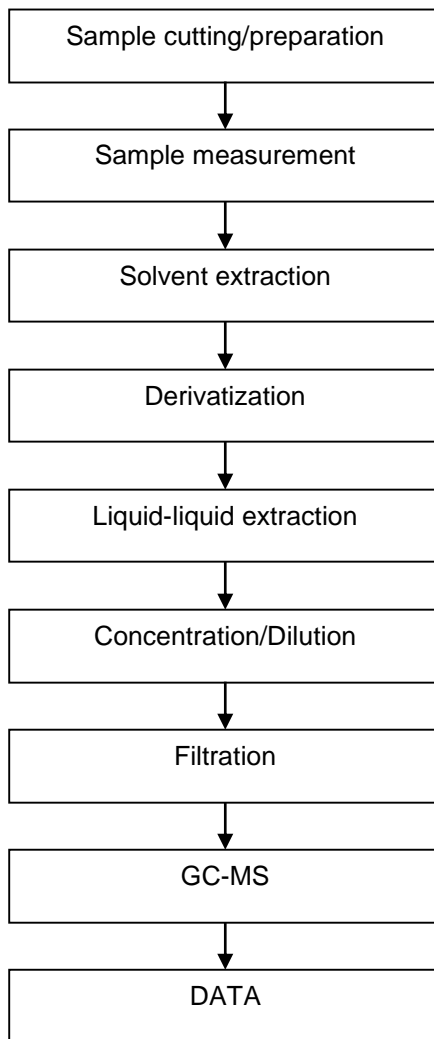
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Organotin Testing Flow Chart

Name of the person who made testing: Liyas Wang

Name of the person in charge of testing: Leon Tang



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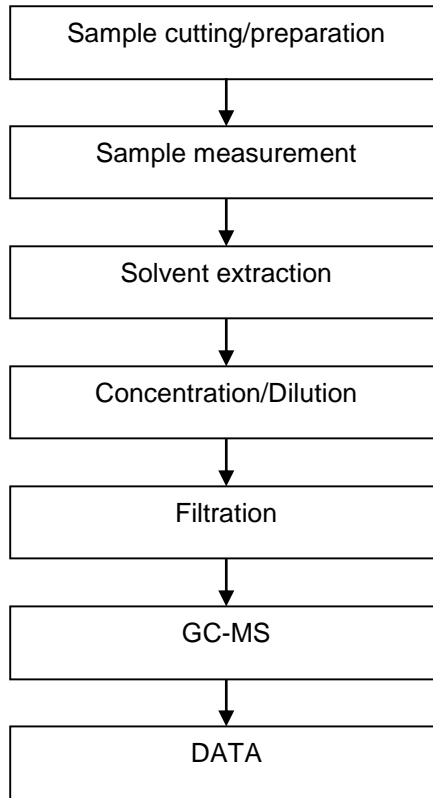
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PCB Testing Flow Chart

Name of the person who made testing: Kevin Li
Name of the person in charge of testing: Mia Wang



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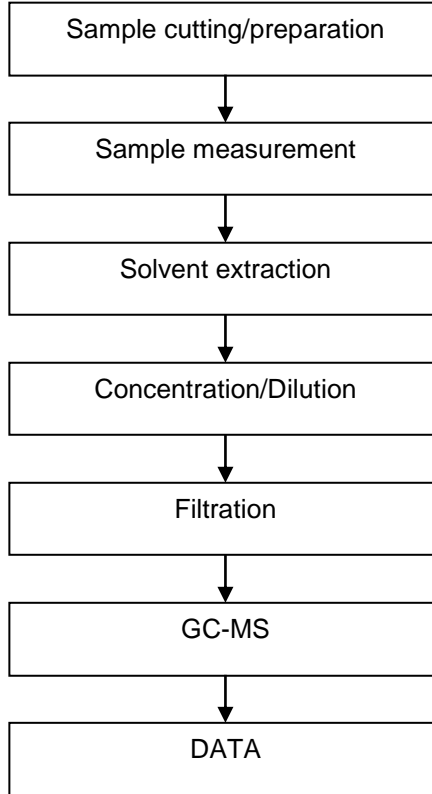
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PCN Testing Flow Chart

Name of the person who made testing: Kevin Li
 Name of the person in charge of testing: Mia Wang



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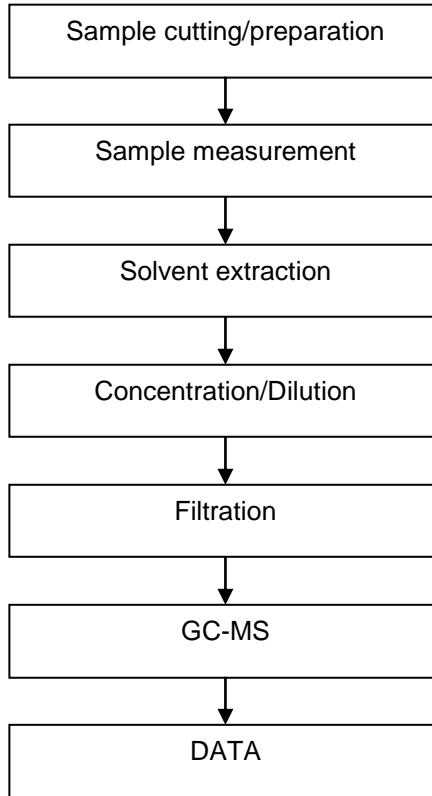
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PCT Testing Flow Chart

Name of the person who made testing: Kevin Li
 Name of the person in charge of testing: Mia Wang



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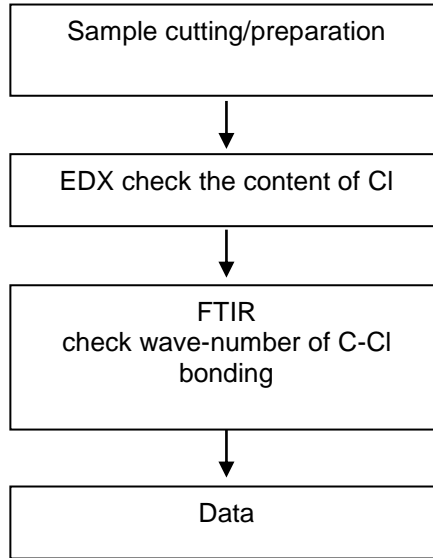
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PVC Testing Flow Chart

Name of the person who made testing: Teresa Gao/ Roger Hu

Name of the person in charge of testing: Zhen Zhang



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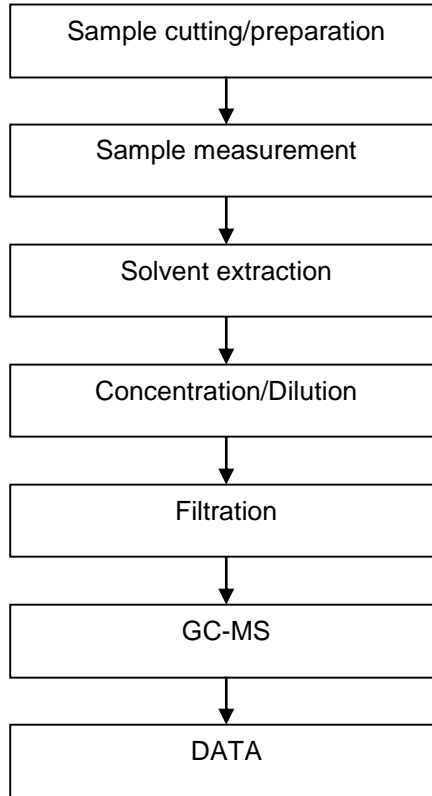
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HBCDD Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Jason Zhang



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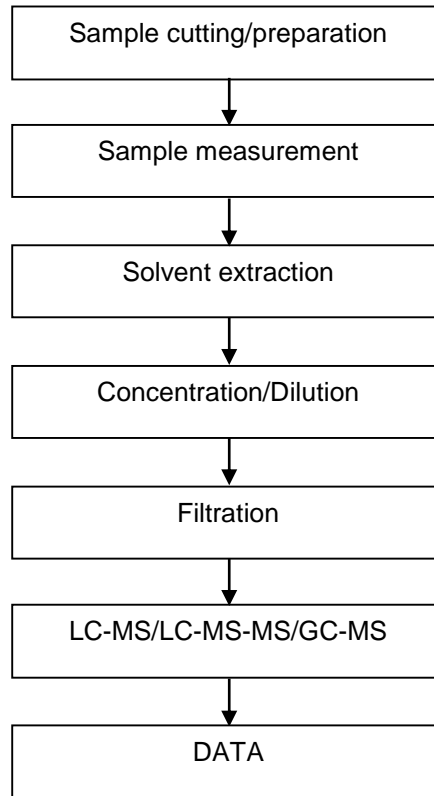
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PFASs/ PFOS/PFOA Testing Flow Chart

Name of the person who made testing: Mia Zeng
Name of the person in charge of testing: Richer Yu



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