

# Test Report

No.: SHAEC23003310107

Date: Apr 06, 2023

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Client Name: SH ELECTRONICS SUZHOU CO., LTD.

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

Sample Name: LEAD FRAME

Model No.: C7025 (UNS#C70250)

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
Asbestos	See Results
Benzotriazole UV Absorbent	See Results
Chlorinated Paraffins	See Results
Elements	See Results
Halogen	See Results
Organic-Tin compounds	See Results
Ozone Depleting Substances(ODS)	See Results
Phthalates	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 Requirement	Conclusion
Polychlorinated Biphenyls (PCBs)	See Results
Polychlorinated Naphthalenes (PCNs)	See Results
Polychlorinated Terphenyls (PCTs)	See Results
Polyvinyl chloride (PVC)	Pass
Tetrabromobisphenol A (TBBP-A)	See Results
Hexabromocyclododecane (HBCDD)	See Results
Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA)	See Results
Azo Dyes	Pass

## Test Result(s):

### Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A3	SHA23-0033101-0001.C003	Copper 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 AAS.
  - (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	A3
Cadmium(Cd)	100	mg/kg	2	ND
Lead(Pb)	1000	mg/kg	2	ND
Mercury(Hg)	1000	mg/kg	2	ND



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Test Item(s)	Limit	Unit(s)	MDL	A3
Hexavalent Chromium (Cr(VI)) ▼	-	µg/cm <sup>2</sup>	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
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/cm<sup>2</sup>.  
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/cm<sup>2</sup>).  
The coating is considered a non-Cr(VI) based coating  
c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> 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.

**Asbestos**

Test Method: With reference to NIOSH 9002:1994, analysis was performed by PLM.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
Actinolite	77536-66-4	%(m/m)	0.1	Negative
Amosite	12172-73-5	%(m/m)	0.1	Negative
Anthophyllite	77536-67-5	%(m/m)	0.1	Negative



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Test Item(s)	CAS No.	Unit(s)	MDL	A3
Chrysotile	12001-29-5 /132207-32-0	%(m/m)	0.1	Negative
Crocidolite	12001-28-4	%(m/m)	0.1	Negative
Tremolite	77536-68-6	%(m/m)	0.1	Negative

**Notes:**

(1) Negative = the absence of asbestos, Positive = the presence of asbestos.

**Benzotriazole UV Absorbent**

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

Test Item(s)	CAS No.	Unit(s)	MDL	A3
2-Benzotriazol-2-yl-4,6-di-tert-butylphenol(UV 320)	3846-71-7	mg/kg	5	ND
2-(2H-Benzotriazol-2-yl)-4(tert-butyl)-6-(sec-butyl)phenol (UV 350)	36437-37-3	mg/kg	5	ND
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol(UV 328)	25973-55-1	mg/kg	5	ND
2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV 327)	3864-99-1	mg/kg	5	ND
Drometrizole	2440-22-4	mg/kg	100	ND

**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	A3
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	A3
Arsenic(As)	mg/kg	10	ND
Beryllium(Be)	mg/kg	5	ND
Phosphorus(P)	mg/kg	20	ND
Antimony(Sb)	mg/kg	10	ND
Beryllium Oxide(BeO) ◆	mg/kg	15	ND
Antimony Trioxide(Sb <sub>2</sub> O <sub>3</sub> ) ◆	mg/kg	12	ND
Diarsenic Pentaoxide(As <sub>2</sub> O <sub>5</sub> ) ◆	mg/kg	10	ND
Diarsenic Trioxide(As <sub>2</sub> O <sub>3</sub> ) ◆	mg/kg	10	ND

**Notes:**

- (1) ◆BeO: Calculate from Beryllium content.
- (2) ◆Sb<sub>2</sub>O<sub>3</sub>: Calculate from Antimony content.
- (3) ◆As<sub>2</sub>O<sub>5</sub>: Calculate from Diarsenic content.
- (4) ◆As<sub>2</sub>O<sub>3</sub>: Calculate from Diarsenic content.



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**Halogen**

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

Test Item(s)	Unit(s)	MDL	A3
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	A3
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

**Ozone Depleting Substances(ODS)**

Test Method: With reference to US EPA 5021A:2014, analysis was performed by HS-GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
CFC-11	75-69-4	µg/g	0.1	ND
CFC-12	75-71-8	µg/g	0.1	ND
CFC-113	354-58-5 /76-13-1	µg/g	0.1	ND
CFC-114	374-07-2 /76-14-2	µg/g	0.1	ND
CFC-13	75-72-9	µg/g	0.1	ND
CFC-111	354-56-3	µg/g	0.1	ND
CFC-112	76-11-9	µg/g	0.1	ND
CFC-113a	354-58-5	µg/g	0.1	ND
CFC-114a	374-07-2	µg/g	0.1	ND
CFC-115	76-15-3	µg/g	0.1	ND
CFC-211	422-78-6	µg/g	0.1	ND
CFC-212	661-96-1	µg/g	0.1	ND
CFC-213	1652-89-7	µg/g	0.1	ND
CFC-214	677-68-9	µg/g	0.1	ND
CFC-215	1599-41-3	µg/g	0.1	ND
CFC-216	661-97-2	µg/g	0.1	ND
CFC-217	422-86-6	µg/g	0.1	ND
HCFC-21	75-43-4	µg/g	0.1	ND
HCFC-22	75-45-6	µg/g	0.1	ND
HCFC-123	306-83-2	µg/g	0.1	ND
HCFC-124	2837-89-0	µg/g	0.1	ND
HCFC-141b	1717-00-6	µg/g	0.1	ND
HCFC-142b	75-68-3	µg/g	0.1	ND
HCFC-31	593-70-4	µg/g	0.1	ND
HCFC-121	354-14-3	µg/g	0.1	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A3
HCFC-122	354-21-2	µg/g	0.1	ND
HCFC-123a	354-23-4	µg/g	0.1	ND
HCFC-124a	354-25-6	µg/g	0.1	ND
HCFC-131	359-28-4	µg/g	0.1	ND
HCFC-131a	811-95-0	µg/g	0.1	ND
HCFC-132a	471-43-2	µg/g	0.1	ND
HCFC-132b	1649-08-7	µg/g	0.1	ND
HCFC-133a	75-88-7	µg/g	0.1	ND
HCFC-221	422-26-4	µg/g	0.1	ND
HCFC-222	422-30-0	µg/g	0.1	ND
HCFC-223	422-52-6	µg/g	0.1	ND
HCFC-225ca	422-56-0	µg/g	0.1	ND
HCFC-225cb	507-55-1	µg/g	0.1	ND
HCFC-226	431-87-8	µg/g	0.1	ND
HCFC-231	421-94-3	µg/g	0.1	ND
HCFC-232	460-89-9	µg/g	0.1	ND
HCFC-233	7125-84-0	µg/g	0.1	ND
HCFC-234	425-94-5	µg/g	0.1	ND
HCFC-235	460-92-4	µg/g	0.1	ND
HCFC-241	666-27-3	µg/g	0.1	ND
HCFC-242	460-63-9	µg/g	0.1	ND
HCFC-243	338-75-0	µg/g	0.1	ND
HCFC-244	679-85-6	µg/g	0.1	ND
HCFC-251	421-41-0	µg/g	0.1	ND
HCFC-252	819-00-1	µg/g	0.1	ND
HCFC-253	460-35-5	µg/g	0.1	ND
HCFC-261	7799-56-6	µg/g	0.1	ND
HCFC-271	430-55-7	µg/g	0.1	ND
HCFC-262	102738-79-4	µg/g	0.1	ND
Halon 1211	353-59-3	µg/g	0.1	ND
Halon 1301	75-63-8	µg/g	0.1	ND
Halon 2402	124-73-2	µg/g	0.1	ND
CHF <sub>2</sub> Br	1511-62-2	µg/g	0.1	ND
CH <sub>2</sub> FBr	373-52-4	µg/g	0.1	ND
C <sub>2</sub> HFBBr <sub>4</sub>	-	µg/g	0.1	ND
C <sub>2</sub> HF <sub>2</sub> Br <sub>3</sub>	-	µg/g	0.1	ND
C <sub>2</sub> HF <sub>3</sub> Br <sub>2</sub>	354-04-1	µg/g	0.1	ND
C <sub>2</sub> HF <sub>4</sub> Br	-	µg/g	0.1	ND
C <sub>2</sub> H <sub>2</sub> FBr <sub>3</sub>	-	µg/g	0.1	ND
C <sub>2</sub> H <sub>2</sub> F <sub>2</sub> Br <sub>2</sub>	75-82-1	µg/g	0.1	ND
C <sub>2</sub> H <sub>2</sub> F <sub>3</sub> Br	421-06-7	µg/g	0.1	ND
C <sub>2</sub> H <sub>3</sub> FBr <sub>2</sub>	-	µg/g	0.1	ND
C <sub>2</sub> H <sub>3</sub> F <sub>2</sub> Br	359-07-9	µg/g	0.1	ND
C <sub>2</sub> H <sub>4</sub> FBr	762-49-2	µg/g	0.1	ND
C <sub>3</sub> HFBBr <sub>6</sub>	-	µg/g	0.1	ND
C <sub>3</sub> HF <sub>2</sub> Br <sub>5</sub>	-	µg/g	0.1	ND
C <sub>3</sub> HF <sub>3</sub> Br <sub>4</sub>	-	µg/g	0.1	ND
C <sub>3</sub> HF <sub>4</sub> Br <sub>3</sub>	-	µg/g	0.1	ND
C <sub>3</sub> HF <sub>5</sub> Br <sub>2</sub>	-	µg/g	0.1	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A3
C <sub>3</sub> HF <sub>6</sub> Br	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> FB <sub>r5</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> F <sub>2</sub> Br <sub>4</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> F <sub>3</sub> Br <sub>3</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> F <sub>4</sub> Br <sub>2</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> F <sub>5</sub> Br	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>3</sub> F <sub>3</sub> Br <sub>2</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>3</sub> F <sub>4</sub> Br	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>4</sub> FB <sub>r3</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>4</sub> F <sub>2</sub> Br <sub>2</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>4</sub> F <sub>3</sub> Br	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>5</sub> FB <sub>r2</sub>	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>5</sub> F <sub>2</sub> Br	-	µg/g	0.1	ND
C <sub>3</sub> H <sub>6</sub> FB <sub>r</sub>	-	µg/g	0.1	ND
Dibromofluoromethane	1868-53-7	µg/g	0.1	ND
Methyl bromide	74-83-9	µg/g	0.1	ND
Bromochloromethane	74-97-5	µg/g	0.1	ND
HFC-23	75-46-7	µg/g	0.1	ND
HFC-32	75-10-5	µg/g	0.1	ND
HFC-41	593-53-3	µg/g	0.1	ND
HFC-43-10mee	138495-42-8	µg/g	0.1	ND
HFC-125	354-33-6	µg/g	0.1	ND
HFC-134	359-35-3	µg/g	0.1	ND
HFC-134a	811-97-2	µg/g	0.1	ND
HFC-152a	75-37-6	µg/g	0.1	ND
HFC-143	420-46-2	µg/g	0.1	ND
HFC-143a	430-66-0	µg/g	0.1	ND
HFC-227ea	431-89-0	µg/g	0.1	ND
HFC-236 cb	677-56-5	µg/g	0.1	ND
HFC-236ea	431-63-0	µg/g	0.1	ND
HFC-236fa	690-39-1	µg/g	0.1	ND
HFC-245ca	679-86-7	µg/g	0.1	ND
HFC-245fa	460-73-1	µg/g	0.1	ND
HFC-365mfc	406-58-6	µg/g	0.1	ND
Perfluoromethane	75-73-0	µg/g	0.1	ND
Perfluoroethane	76-16-4	µg/g	0.1	ND
Perfluoropropane	76-19-7	µg/g	0.1	ND
Perfluorobutane	355-25-9	µg/g	0.1	ND
Perfluoropentane	678-26-2	µg/g	0.1	ND
Perfluorohexane	355-42-0	µg/g	0.1	ND
Perfluorocyclobutane	115-25-3	µg/g	0.1	ND
1,3-dichloropropane	142-28-9	µg/g	0.1	ND
2,2-dichloropropane	594-20-7	µg/g	0.1	ND
Carbon tetrachloride	56-23-5	µg/g	0.1	ND
chloroethane	75-00-3	µg/g	0.1	ND
Chloroform	67-66-3	µg/g	0.1	ND
chloromethane	74-87-3	µg/g	0.1	ND
Cis-1,2-dichloroethene	156-59-2	µg/g	0.1	ND
Cis-1,3-dichloropropene	10061-01-5	µg/g	0.1	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A3
Hexachlorobutadiene	87-68-3	µg/g	0.1	ND
Methylene chloride	75-09-2	µg/g	0.1	ND
Tetrachloroethene	127-18-4	µg/g	0.1	ND
Trans-1,2-dichloroethene	156-60-5	µg/g	0.1	ND
Trans-1,3-dichloropropene	10061-02-6	µg/g	0.1	ND
Trichloroethylene	79-01-6	µg/g	0.1	ND
1,1,1,2-tetrachloroethane	630-20-6	µg/g	0.1	ND
1,1,1-trichloroethane	71-55-6	µg/g	0.1	ND
1,1,2,2-tetrachloroethane	79-34-5	µg/g	0.1	ND
1,1,2-trichloroethane	79-00-5	µg/g	0.1	ND
1,1-dichloroethane	75-34-3	µg/g	0.1	ND
1,1-dichloroethene	75-35-4	µg/g	0.1	ND
1,1-dichloropropene	563-58-6	µg/g	0.1	ND
1,2,3-trichloropropane	96-18-4	µg/g	0.1	ND
1,2-dichloroethane	107-06-2	µg/g	0.1	ND
1,2-dichloropropane	78-87-5	µg/g	0.1	ND
C <sub>3</sub> F <sub>6</sub> Cl <sub>2</sub>	1652-80-8	µg/g	0.1	ND
SF <sub>6</sub>	2551-62-4	µg/g	0.1	ND
HFC-161	353-36-6	µg/g	0.1	ND
HCFC-224	422-54-8	µg/g	0.1	ND

## Phthalates

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

Test Item(s)	Unit(s)	MDL	A3
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
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	A3
2,4,4'-Trichlorobiphenyl (PCB28)	7012-37-5	mg/kg	0.5	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A3
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	A3
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	A3
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)	A3
Polyvinyl chloride (PVC)	9002-86-2	-	Negative

### Notes:

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

## Tetrabromobisphenol A (TBBP-A)

Test Method: With reference to IEC 62321:2008, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A3
Tetrabromobisphenol A(TBBPA)	79-94-7	mg/kg	10	ND

## Hexabromocyclododecane (HBCDD)

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



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Test Item(s)	CAS No.	Unit(s)	MDL	A3
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	A3
Perfluorooctanesulfonic acid (PFOS) <sup>^</sup>	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) <sup>^</sup> PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH<sub>4</sub> (CAS No.: 29081-56-9), PFOS-NH(OH)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No.: 56773-42-3), PFOS-DDA (CAS No.: 251099-16-8) and POSF (CAS No.: 307-35-7).

### Azo Dyes

Test Method: With reference to EN ISO 14362-1:2017, analysis was performed by GC-MS/HPLC-DAD.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A3
<b>Direct Reduction*</b>					
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND
Benzidine	92-87-5	30	mg/kg	5	ND
4-Chlor-o-toluidine	95-69-2	30	mg/kg	5	ND
2-Naphthylamine	91-59-8	30	mg/kg	5	ND
o-Aminoazotoluene	97-56-3	30	mg/kg	5	ND
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	30	mg/kg	5	ND
4-Chloroaniline	106-47-8	30	mg/kg	5	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	30	mg/kg	5	ND
3,3'-Dichlorobenzidine	91-94-1	30	mg/kg	5	ND
3,3'-Dimethoxybenzidine	119-90-4	30	mg/kg	5	ND
3,3'-Dimethylbenzidine	119-93-7	30	mg/kg	5	ND
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	30	mg/kg	5	ND
p-Cresidine	120-71-8	30	mg/kg	5	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	30	mg/kg	5	ND
4,4'-Oxydianiline	101-80-4	30	mg/kg	5	ND
4,4'-Thiodianiline	139-65-1	30	mg/kg	5	ND
o-Toluidine	95-53-4	30	mg/kg	5	ND
4-Methyl-m-Phenylenediamine/2,4-Toluylenediamine, TDA	95-80-7	30	mg/kg	5	ND
2,4,5-Trimethylaniline	137-17-7	30	mg/kg	5	ND
4-Aminoazobenzene	60-09-3	30	mg/kg	5	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A3
O-Anisidine	90-04-0	30	mg/kg	5	ND
2,4-Xylidine	95-68-1	30	mg/kg	5	ND
2,6-Xylidine	87-62-7	30	mg/kg	5	ND
<b>Conclusion</b>					<b>Pass</b>

**Notes:**

- (1) \*Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.
- (2) 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.
- (3) In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.
- (4) EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "n.d." (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.
- (5) The maximum permissible limit is quoted from the client requirement.

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.



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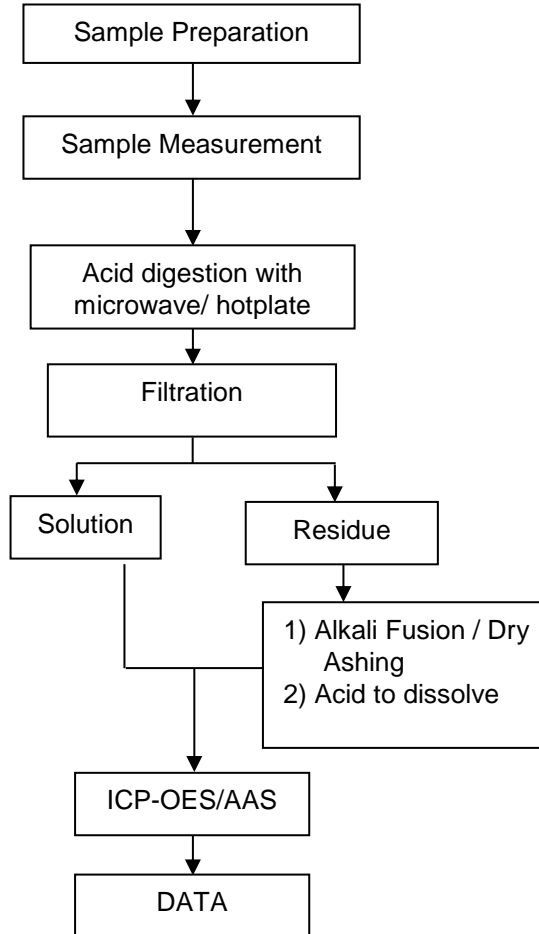
**ATTACHMENTS**

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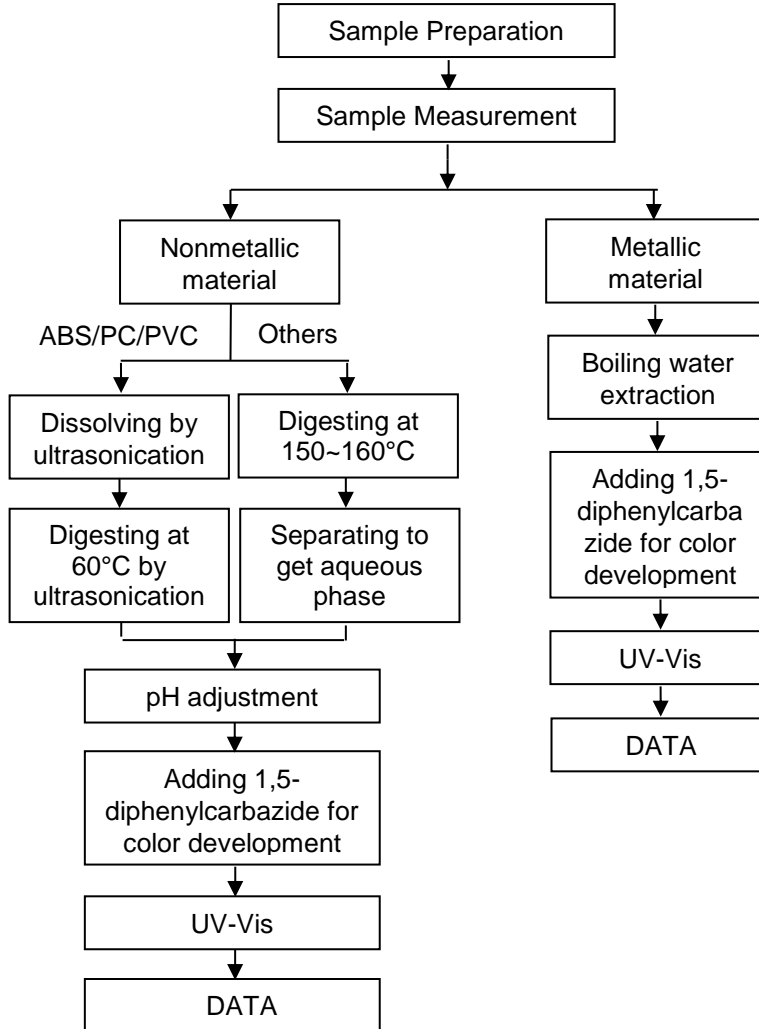
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## Hexavalent Chromium (Cr(VI)) Testing Flow Chart

Name of the person who made testing: Alex Wang

Name of the person in charge of testing: Xiaolong Yang



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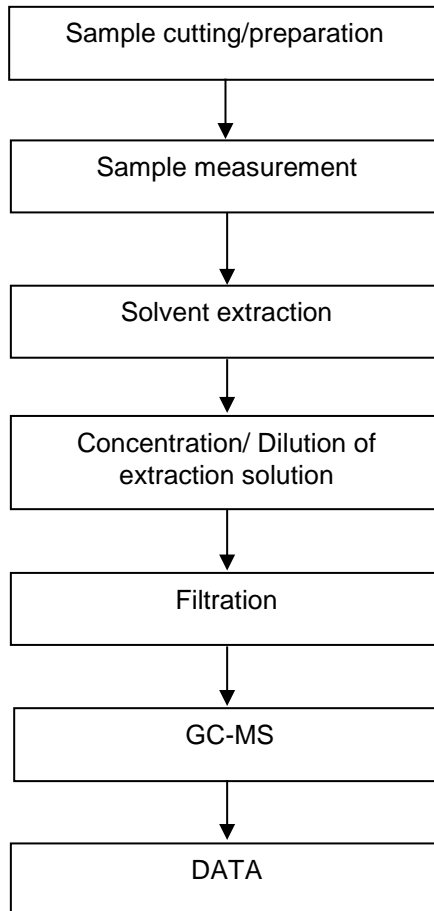
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#### PBBs/PBDEs Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Jason Zhang



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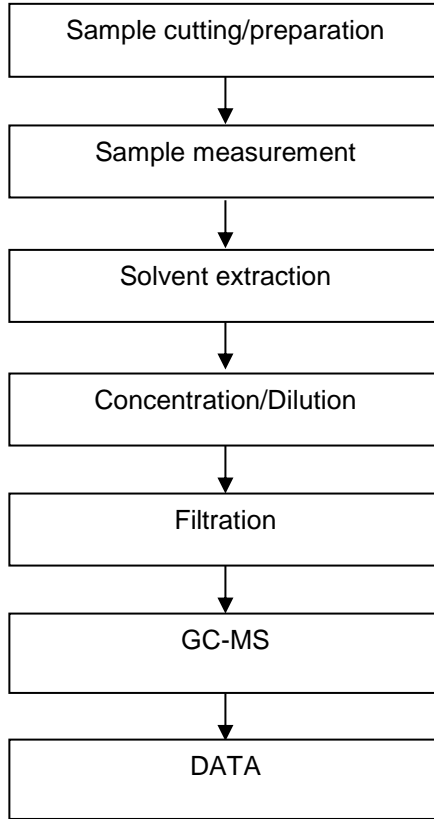
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**Phthalates Testing Flow Chart**

Name of the person who made testing: Iris Han

Name of the person in charge of testing: Jason Zhang



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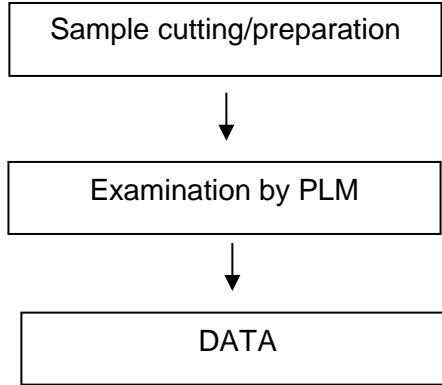
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#### Asbestos Testing Flow Chart

Name of the person who made testing: Roger Hu/Irene Zhang

Name of the person in charge of testing: Zhen Zhang



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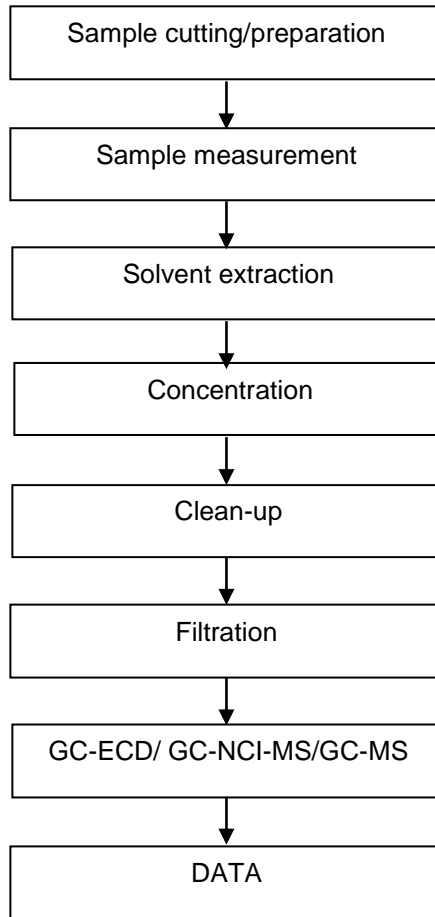
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### Chlorinated Paraffin Testing Flow Chart

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



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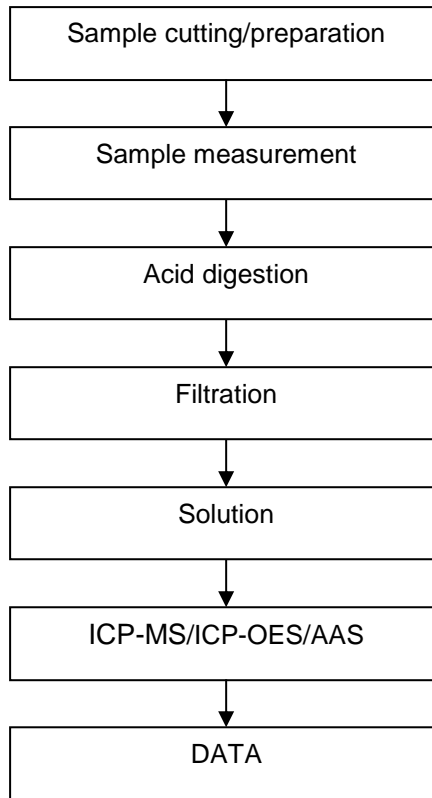
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Elements Testing Flow Chart

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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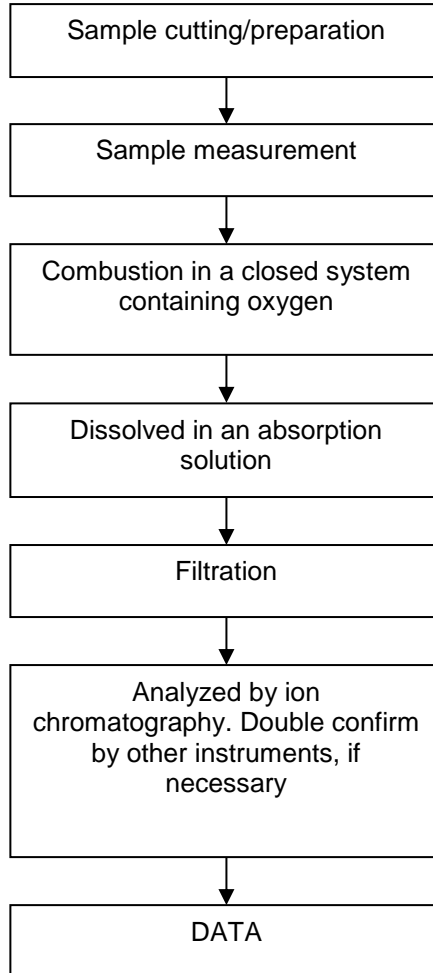
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**Halogen Testing Flow Chart**

Name of the person who made testing: Andy Zhang  
 Name of the person in charge of testing: Allen Chen



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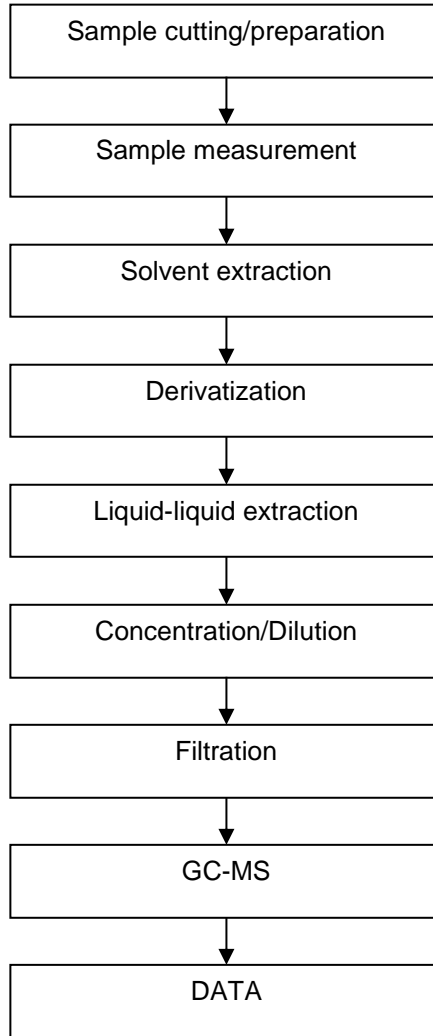
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**Organotin Testing Flow Chart**

Name of the person who made testing: Liyas Wang

Name of the person in charge of testing: Leon Tang



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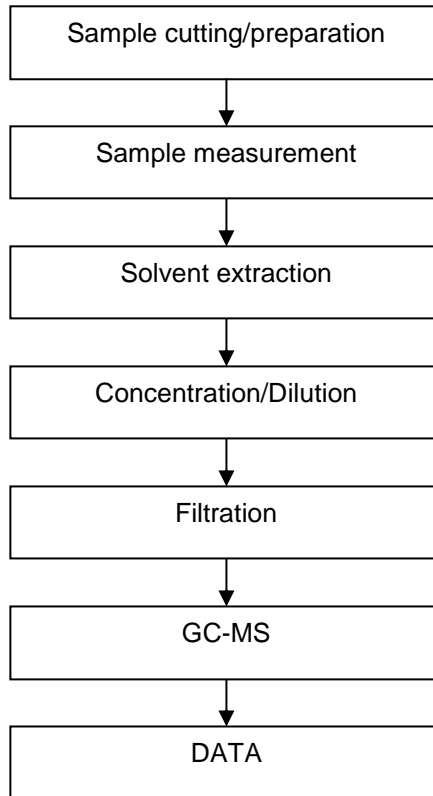
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### PCB Testing Flow Chart

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



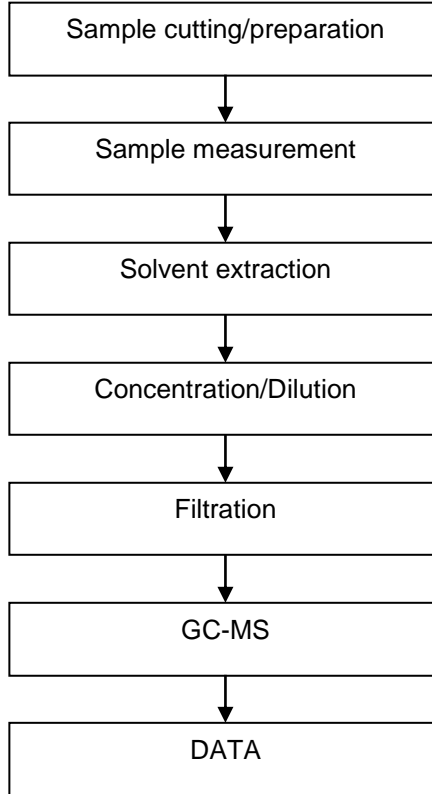
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PCN Testing Flow Chart

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



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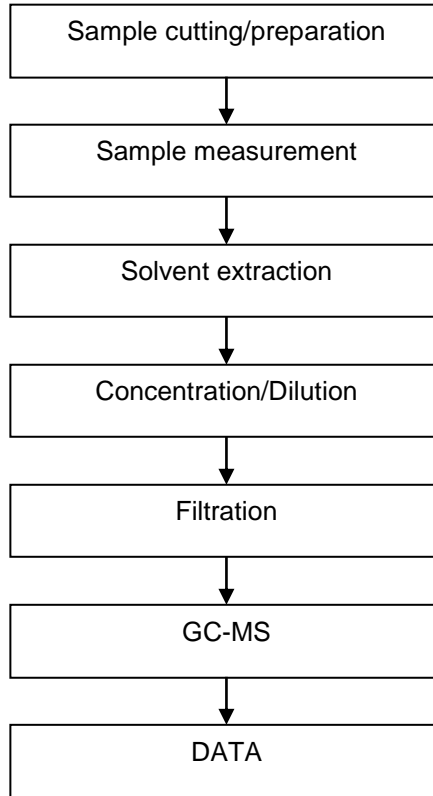
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### PCT Testing Flow Chart

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



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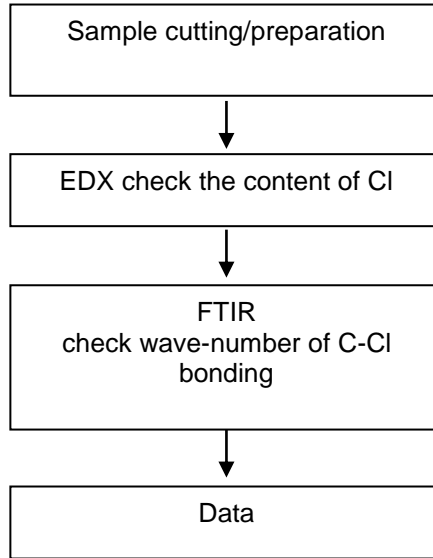
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PVC Testing Flow Chart

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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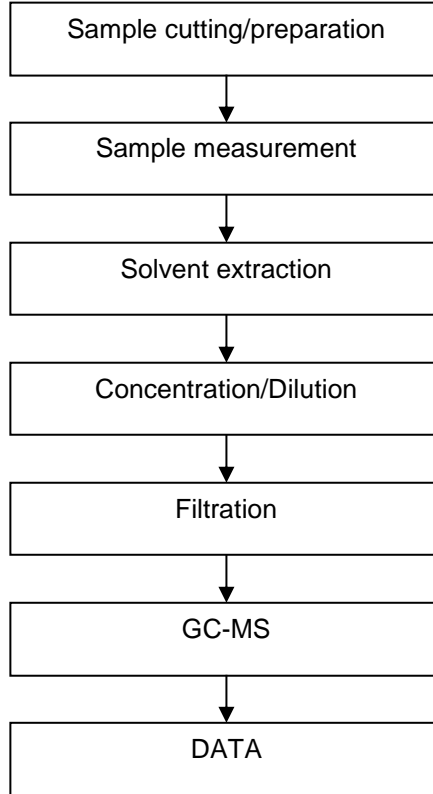


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### HBCDD Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Jason Zhang



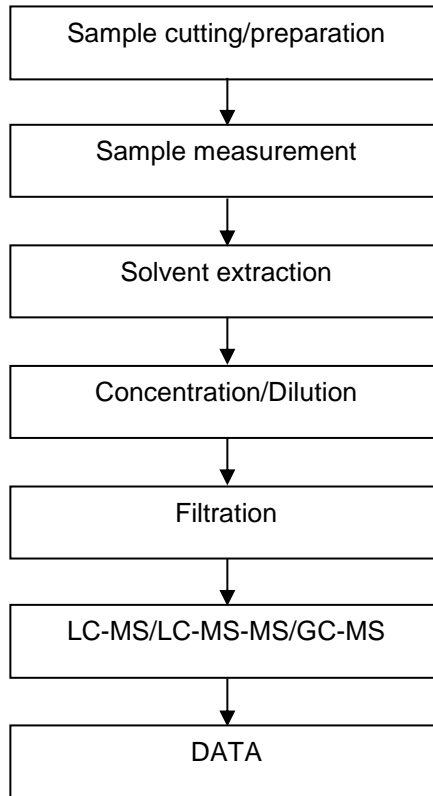
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PFASs/ PFOS/PFOA Testing Flow Chart

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



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