

Test Report

No.: SHAEC23004672901

Date: May 06, 2023

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Client Name: HERAEUS (ZHAOYUAN) PRECIOUS METAL MATERIALS CO.,LTD.

Client Address: NO.9 ANKANG SOUTH ROAD,ZHAOYUAN CITY, SHANDONG PROVINCE

Sample Name: Gold Wire

Model No.: HA3

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

SGS Job No.: SP23-009957

Sample Receiving Date: Apr 19, 2023

Testing Period: Apr 19, 2023 ~ Apr 24, 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
Elements	See Results
Halogen	See Results
Hexabromocyclododecane (HBCDD)	See Results
Polychlorinated Biphenyls (PCBs)	See Results
TBBP-A	See Results
Perfluorooctane Sulfonates (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts	See Results
Red Phosphorus as Phosphorus	See Results

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

Carol Luo
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	SHA23-0046729-0001.C001	Golden metal wire

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 62321-7-1:2015, IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES, AAS, UV-Vis and GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
Cadmium(Cd)	7440-43-9	100	mg/kg	2	ND
Lead(Pb)	7439-92-1	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
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)	CAS No.	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) ▼ =
 - 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.

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	12
Phosphorus(P)	mg/kg	20	ND
Antimony(Sb)	mg/kg	10	ND
Antimony Trioxide(Sb ₂ O ₃) ◆	mg/kg	12	ND

Notes:

- (1)◆Calculated concentration of Sb₂O₃ is based on the identified Sb.

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

Hexabromocyclododecane (HBCDD)

Test Method: With reference to IEC 62321-9:2021, analysis was performed by GC-MS.



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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	20	ND

Notes:

CAS No 25637-99-4, 3194-55-6

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

TBBP-A

Test Method: With reference to US EPA 3540C:1996, analysis was performed by GC-MS/LC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
TBBP-A	79-94-7	mg/kg	10	ND

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*	-	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
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*	-	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-NH₄ (CAS No. 29081-56-9), PFOS-N(C₁₀H₂₁)₂(CH₃)₂ (CAS No. 251099-16-8), PFOS-NH₂(C₂H₄OH)₂ (CAS No. 70225-14-8), PFOS-Li (CAS No. 29457-72-5), PFOS-N(C₂H₅)₄ (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.

Red Phosphorus as Phosphorus

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

Test Item(s)	Unit(s)	MDL	A1
Red Phosphorus as Phosphorus	mg/kg	20	ND

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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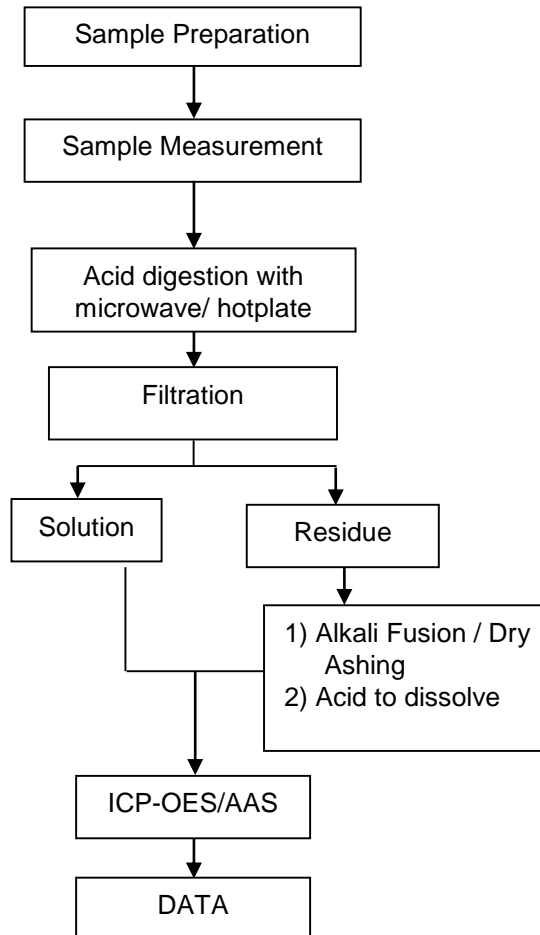
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Elements Testing Flow Chart

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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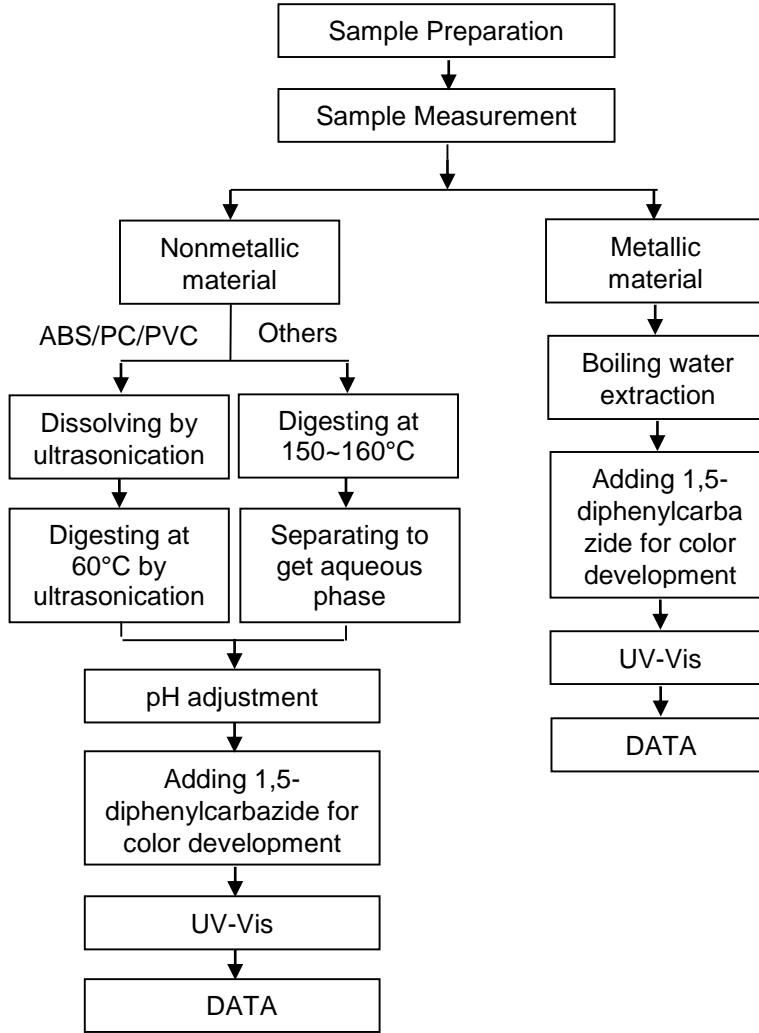
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart

Name of the person who made testing: Alex Wang

Name of the person in charge of testing: Xiaolong Yang



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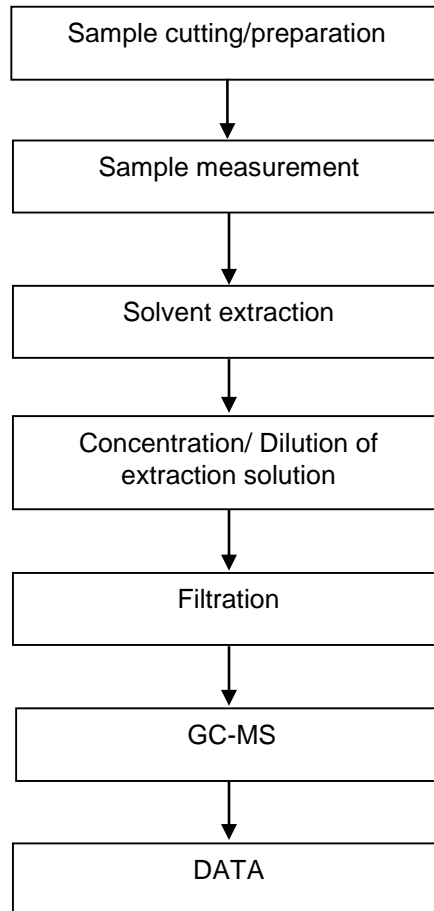
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PBBs/PBDEs Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Jason Zhang



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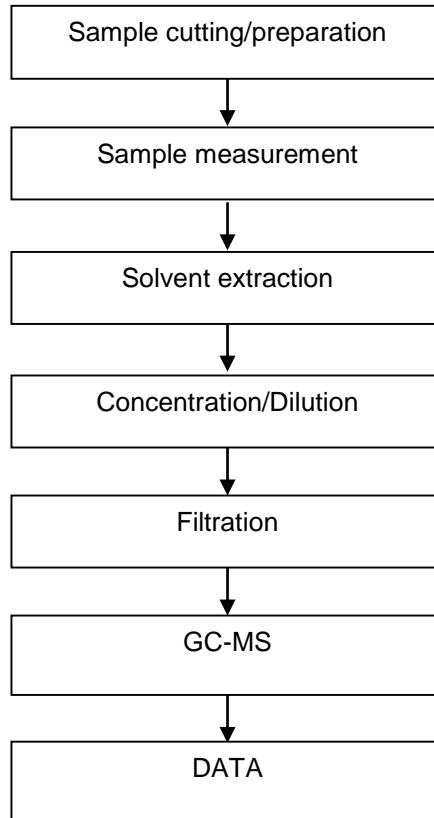
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Phthalates Testing Flow Chart

Name of the person who made testing: Iris Han

Name of the person in charge of testing: Jason Zhang



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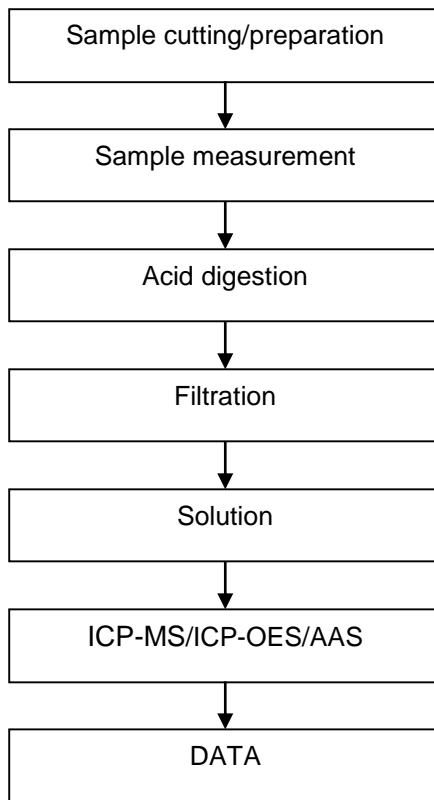
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Elements Testing Flow Chart

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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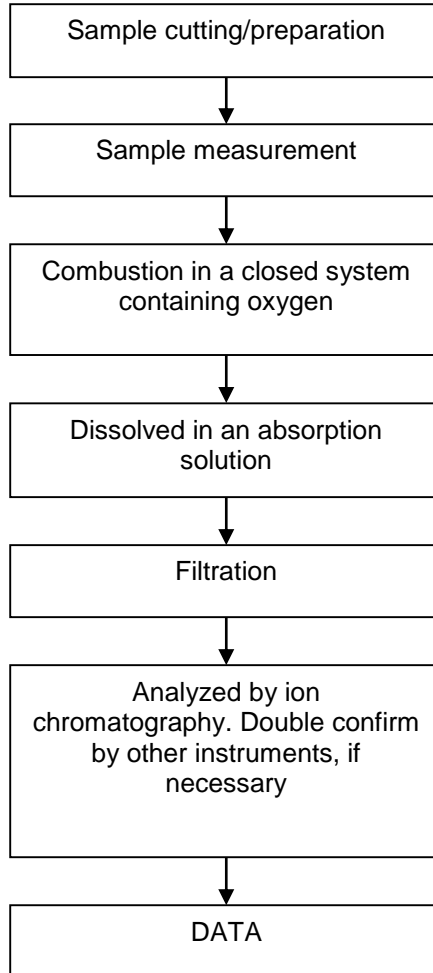
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Halogen Testing Flow Chart

Name of the person who made testing: Andy Zhang

Name of the person in charge of testing: Allen Chen



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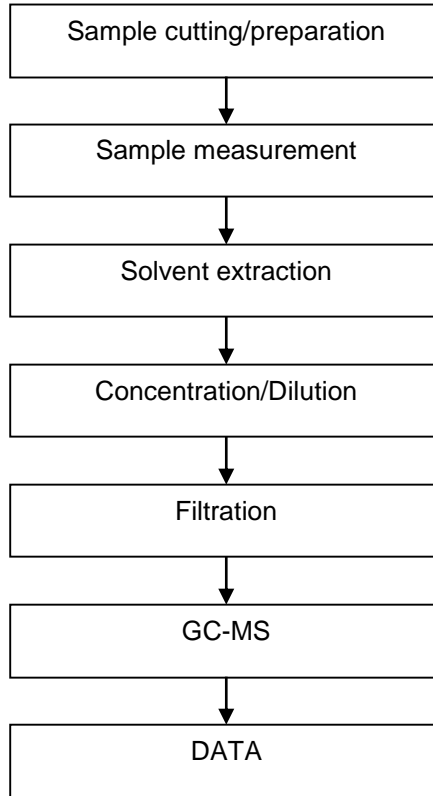
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HBCDD Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Jason Zhang



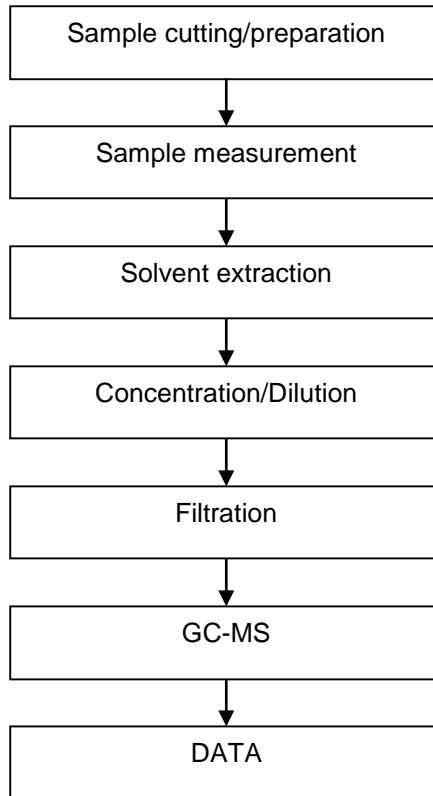
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PCB Testing Flow Chart

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



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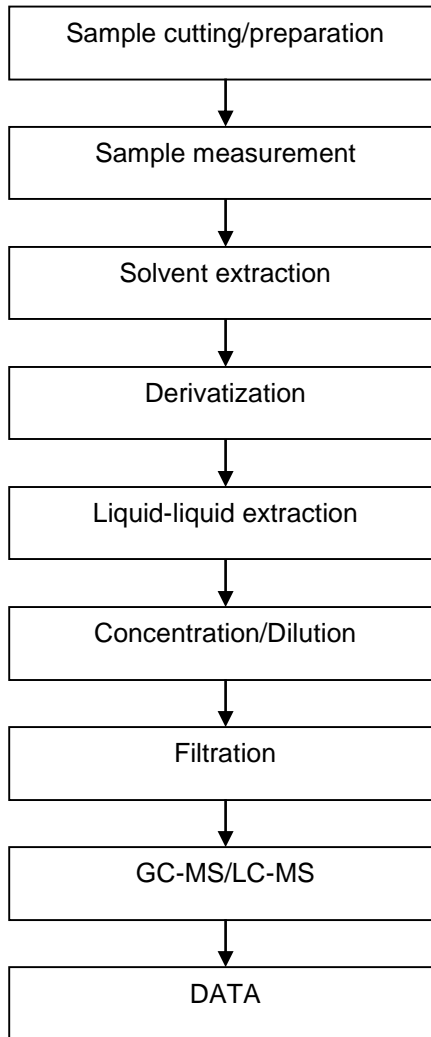
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TBBP-A Testing Flow Chart

Name of the person who made testing: Gary Xu

Name of the person in charge of testing: Jason Zhang



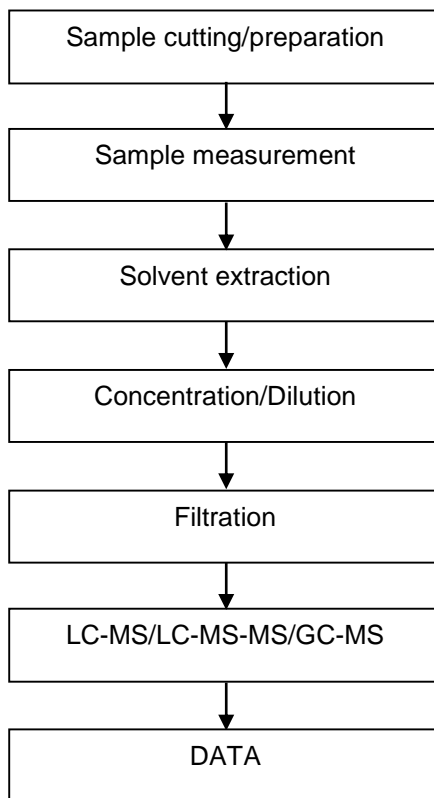
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PFASs/ PFOS/PFOA Testing Flow Chart

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



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