

Test Report No.: SHAEC23000366220 **Date:** Feb 06, 2023 Page 1 of 23

Client Name: YANGZHOU YANGJIE ELECTRONIC TECHNOLOGY CO., LTD.

Client Address: NO.6 WEST HEYE ROAD, HANJIANG DISTRICT, YANGZHOU, JIANGSU, CHINA

Sample Name: Power Device

Client Ref. Information: GPP Chip; SKY Chip; Lead Frame/Jumper/Lead Wire; Solder Paste/Solder

Perform/Solder Wire; Molding Compound (halogen Free 1); Molding Compound (halogen Free 2); Molding Compound (halogen Free 3); Molding Compound (halogen Free 4); Molding Compound (halogen Free 6); Molding Compound (halogen Free 7); Molding Compound (halogen Free 3); Molding Compound (halogen Free

3); Tin Ball; Lead Frame; Al Wire/Al Ribbon; Ink; Copper Wire

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

SGS Job No.: SP23-000791 Sample Receiving Date: Jan 10, 2023

Testing Period: Jan 10, 2023 - Feb 02, 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)	Pass
phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and	
Diisobutyl phthalate (DIBP)	

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

Tom

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Tom Ni

Approved Signatory





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Test Result(s):

Test Part Description:

Sample No.	SGS Sample ID	Description
A2	SHA23-0003662-0001.C002	Silvery metal
A4	SHA23-0003662-0001.C004	Black solid
A5	SHA23-0003662-0001.C005	Silvery/black solid
A7	SHA23-0003662-0001.C007	Silvery mud
A8	SHA23-0003662-0001.C008	Black solid
A9	SHA23-0003662-0001.C009	Black solid
A10	SHA23-0003662-0001.C010	Black solid
A11	SHA23-0003662-0001.C011	Copper metal
A15	SHA23-0003662-0001.C015	Silvery metal wire
A16	SHA23-0003662-0001.C016	Gray solid
A27	SHA23-0003662-0001.C027	Silvery metal wire
A28	SHA23-0003662-0001.C028	Copper metal wire
A35	SHA23-0003662-0001.C035	Copper metal
A36	SHA23-0003662-0001.C036	Black solid
A37	SHA23-0003662-0001.C037	Black solid
A39	SHA23-0003662-0001.C039	Silvery/grey solid
	A2 A4 A5 A7 A8 A9 A10 A11 A15 A16 A27 A28 A35 A36 A37	A2 SHA23-0003662-0001.C002 A4 SHA23-0003662-0001.C004 A5 SHA23-0003662-0001.C005 A7 SHA23-0003662-0001.C007 A8 SHA23-0003662-0001.C008 A9 SHA23-0003662-0001.C009 A10 SHA23-0003662-0001.C010 A11 SHA23-0003662-0001.C011 A15 SHA23-0003662-0001.C015 A16 SHA23-0003662-0001.C016 A27 SHA23-0003662-0001.C027 A28 SHA23-0003662-0001.C028 A35 SHA23-0003662-0001.C035 A36 SHA23-0003662-0001.C036 A37 SHA23-0003662-0001.C037

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 62321-7-2:2017,

IEC 62321-6:2015 and IEC62321-8:2017, analysis was performed by ICP-OES, UV-Vis

and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A7
Cadmium(Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	ND	43560▲	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND	ND	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A7
Nonabromobiphenyl (NonaBB)	•	mg/kg	5	ND	ND	ND
Decabromobiphenyl (DecaBB)	ı	mg/kg	5	ND	ND	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	ı	ND	ND	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND	ND	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND	ND	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND	ND	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND	ND	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND	ND	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND	ND	ND
Octabromodiphenylether (OctaBDE)	1	mg/kg	5	ND	ND	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND	ND	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate(DIBP)	1000	mg/kg	50	ND	ND	ND

Test Item(s)	Limit	Unit(s)	MDL	A8	A9	A10
Cadmium(Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND	ND	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl (OctaBB)	1	mg/kg	5	ND	ND	ND
Nonabromobiphenyl (NonaBB)	1	mg/kg	5	ND	ND	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND	ND	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	ı	ND	ND	ND
Monobromodiphenylether	-	mg/kg	5	ND	ND	ND
(MonoBDE)			E	ND	ND	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND	ND	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A8	A9	A10
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND	ND	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND	ND	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND	ND	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND	ND	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND	ND	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND	ND	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate(DIBP)	1000	mg/kg	50	ND	ND	ND

Test Item(s)	Limit	Unit(s)	MDL	A16	A36	A37
Cadmium(Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	ı	ND	ND	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl (DiBB)	1	mg/kg	5	ND	ND	ND
Tribromobiphenyl (TriBB)	1	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	1	mg/kg	5	ND	ND	ND
Pentabromobiphenyl (PentaBB)	1	mg/kg	5	ND	ND	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND	ND	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND	ND	ND
Monobromodiphenylether (MonoBDE)	1	mg/kg	5	ND	ND	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND	ND	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND	ND	ND
Pentabromodiphenylether (PentaBDE)	ı	mg/kg	5	ND	ND	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND	ND	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A16	A36	A37
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND	ND	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND	ND	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate(DIBP)	1000	mg/kg	50	ND	ND	ND

Test Item(s)	Limit	Unit(s)	MDL	A39
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))	1000	mg/kg	8	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	_	mg/kg	5	ND
(MonoBDE)	-	ilig/kg		
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)	Limit	Unit(s)	MDL	A39
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) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (4) ▲ According to the declaration from the client, Lead (Pb) in No.A5 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(c)-I|: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

Test Method: With reference to Titration method, 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, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A27
Cadmium(Cd)	100	mg/kg	2	ND
Lead(Pb)	0.1	%	-	92.4▲
Mercury(Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	μg/cm²	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



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Test Item(s)	Limit	Unit(s)	MDL	A27
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 CrVI if the CrVI concentration is greater than 0.13 μg/cm² . The sample coating is considered to contain CrVI.
- b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI 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.

(4) ▲ According to the declaration from the client, Lead (Pb) in No.A27 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(a)|: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

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)	Limit	Unit(s)	MDL	A2	A11	A15
Cadmium(Cd)	100	mg/kg	2	ND	ND	ND
Lead(Pb)	1000	mg/kg	2	41	11	ND
Mercury(Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	•	μg/cm²	0.10	ND	ND	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND	ND	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND	ND	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND	ND	ND
Monobromodiphenylether (MonoBDE)	1	mg/kg	5	ND	ND	ND
Dibromodiphenylether (DiBDE)	1	mg/kg	5	ND	ND	ND
Tribromodiphenylether (TriBDE)		mg/kg	5	ND	ND	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A2	A11	A15
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND	ND	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND	ND	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND	ND	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND	ND	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND	ND	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate(DIBP)	1000	mg/kg	50	ND	ND	ND

Test Item(s)	Limit	Unit(s)	MDL	A28	A35
Cadmium(Cd)	100	mg/kg	2	ND	ND
Lead(Pb)	1000	mg/kg	2	ND	12
Mercury(Hg)	1000	mg/kg	2	ND	ND
Hexavalent Chromium (Cr(VI))▼	1	μg/cm²	0.10	ND	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	•	ND	ND
Monobromobiphenyl (MonoBB)	•	mg/kg	5	ND	ND
Dibromobiphenyl (DiBB)	1	mg/kg	5	ND	ND
Tribromobiphenyl (TriBB)	1	mg/kg	5	ND	ND
Tetrabromobiphenyl (TetraBB)	•	mg/kg	5	ND	ND
Pentabromobiphenyl (PentaBB)	1	mg/kg	5	ND	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND	ND
Tetrabromodiphenylether (TetraBDE)	1	mg/kg	5	ND	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A28	A35
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND	ND
Diisobutyl Phthalate(DIBP)	1000	mg/kg	50	ND	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.

The Latest Date of Sample A39 Received: 2023.02.02

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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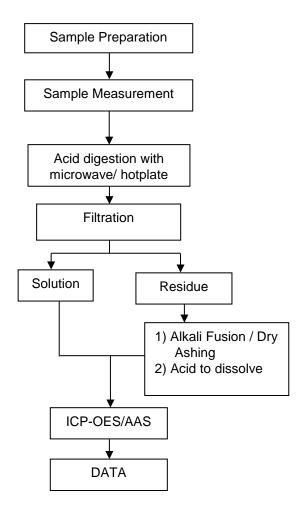
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Elements (IEC62321) Testing Flow Chart

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





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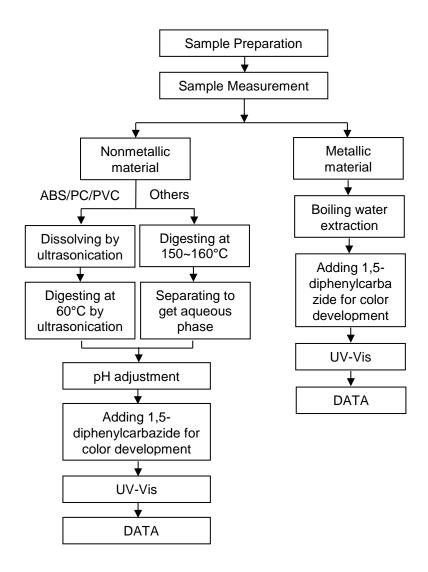


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





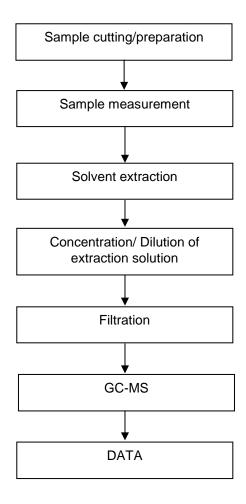
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PBBs/PBDEs Testing Flow Chart





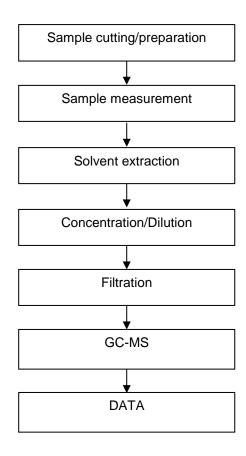
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Phthalates Testing Flow Chart





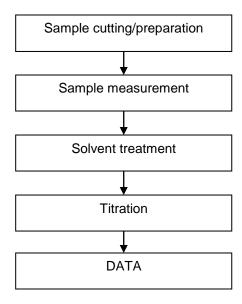
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Titration Testing Flow Chart





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Sample Photo:







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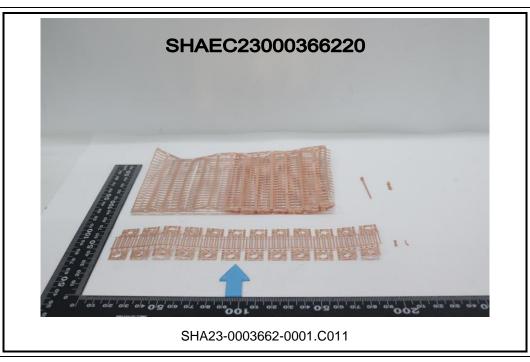


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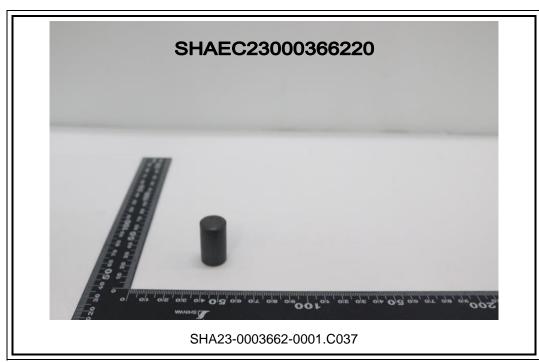
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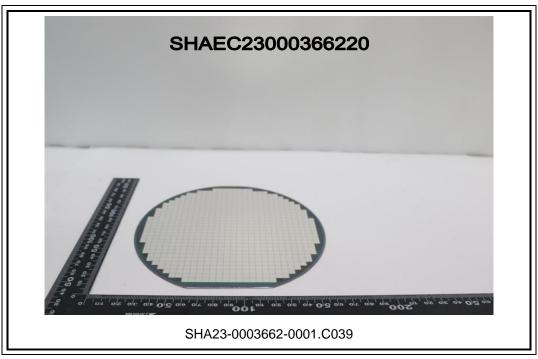


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