

**Test Report** No.: SHAEC24028769401 **Date**: Dec 30, 2024 Page 1 of 16

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

Client Address: NO. 26 MID PIONEER PARK ROAD, WEIYANG ECONOMIC DEVELOPMENT ZONE,

YANGZHOU, JIANGSU CHINA

Sample Name: Diode

Client Ref. Information: 1.Tin ball; 2.Molding Compound (halogen 1); 3.Molding Compound

(halogen Free 1); 4.GPP Chip; 5.SKY Chip; 6.Ink; 8.Molding Compound

(halogen Free 3); 10.Lead Frame/Jumper/Lead Wire; 26.Solder

Paste/Solder Perform/Solder Wire

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

SGS Job No.: SHP24-040813 Sample Receiving Date: Dec 16, 2024

Testing Period: Dec 16, 2024 ~ Dec 23, 2024

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 (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Carol Luo

**Approved Signatory** 





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### Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA24-0287694-0001.C001	Silvery metal
SN2	A2	SHA24-0287694-0001.C002	Gray solid
SN3	A3	SHA24-0287694-0001.C003	Gray solid
SN4	A4	SHA24-0287694-0001.C004	Gray/black solid sheet
SN5	A5	SHA24-0287694-0001.C005	Colorful solid sheet
SN6	A6	SHA24-0287694-0001.C006	Silvery liquid
SN7	A8	SHA24-0287694-0001.C008	Gray solid
SN8	A10	SHA24-0287694-0001.C010	Copper metal
SN9	A26	SHA24-0287694-0001.C026	Silvery 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 (PBB), Polybrominated diphenyl ethers (PBDE), 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 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A2	A3	A4
Lead (Pb)	1000	mg/kg	2	8	ND	21965▲
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	ı	ND	ND	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND	ND	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND	ND	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND	ND	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND	ND	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND	ND	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND	ND	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND	ND	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A2	A3	A4
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND	ND	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND	ND	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND	ND	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND	ND	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND	ND	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND	ND	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND	ND	ND
Hexabrominated diphenyl ether (HexaBDE)	1	mg/kg	25	ND	ND	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND	ND	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND	ND	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND	ND	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND	ND	ND
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Test Item(s)	Limit	Unit(s)	MDL	A5	A6	A8
Lead (Pb)	1000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND	ND	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND	ND	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND	ND	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND	ND	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND	ND	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND	ND	ND



(HeptaBB)

Heptabrominated biphenyl

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mg/kg

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ND

ND

ND



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•				,		- 3 -
Test Item(s)	Limit	Unit(s)	MDL	A5	A6	A8
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND	ND	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND	ND	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND	ND	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND	ND	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND	ND	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND	ND	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND	ND	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND	ND	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND	ND	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND	ND	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND	ND	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND	ND	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND	ND	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND	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) 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.

**Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A10
Lead (Pb)	1000	mg/kg	2	38	7
Mercury (Hg)	1000	mg/kg	2	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A1	A10
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND	ND
Monobrominated diphenyl ether		ma/ka	25	ND	ND
(MonoBDE)	-	mg/kg		ND	
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND	ND
Tetrabrominated diphenyl ether	_	mg/kg	25	ND	ND
(TetraBDE)		ilig/kg	23	ND	ND
Pentabrominated diphenyl ether	_	mg/kg	25	ND	ND
(PentaBDE)		mg/kg	20	ND	ND
Hexabrominated diphenyl ether	_	mg/kg	25	ND	ND
(HexaBDE)		mg/kg	20	110	110
Heptabrominated diphenyl ether	_	mg/kg	25	ND	ND
(HeptaBDE)		mg/ng		110	110
Octabrominated diphenyl ether	_	mg/kg	25	ND	ND
(OctaBDE)		9/9		.,,5	.,,5
Nonabrominated diphenyl ether	_	mg/kg	25	ND	ND
(NonaBDE)					
Decabrominated diphenyl ether	-	mg/kg	25	ND	ND
(DecaBDE)	4000				
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND
Dibutyl Phthalate (DBP)	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.
- 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.



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**Test Method:** With reference to Titration method, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013,

IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS,

UV-Vis and GC-MS.

Lead(Pb)	Test Item(s)	Limit	Unit(s)	MDL	A26
Cadmium(Cd)         100         mg/kg         2         ND           Hexavalent Chromium (Cr(VI)) ▼         -         µg/cm²         0.10         ND           Polybrominated biphenyls (PBB)         1000         mg/kg         -         ND           Monobrominated biphenyl (MonoBB)         -         mg/kg         25         ND           Dibrominated biphenyl (PiBB)         -         mg/kg         25         ND           Tribrominated biphenyl (TetraBB)         -         mg/kg         25         ND           Tetrabrominated biphenyl (PentaBB)         -         mg/kg         25         ND           Pentabrominated biphenyl (PentaBB)         -         mg/kg         25         ND           Hexabrominated biphenyl (HexaBB)         -         mg/kg         25         ND           Hexabrominated biphenyl (HetaBB)         -         mg/kg         25         ND           Octabrominated biphenyl (OctaBB)         -         mg/kg         25         ND           Nonabrominated biphenyl (DecaBB)         -         mg/kg         25         ND           Monobrominated diphenyl ethers (PBDE)         1000         mg/kg         -         ND           Monobrominated diphenyl ether (DiBDE)         -         <	Lead(Pb)	0.1	%	-	92.5▲
Hexavalent Chromium (Cr(VI)) ▼         - μg/cm²         0.10         ND           Polybrominated biphenyls (PBB)         1000         mg/kg         - ND           Monobrominated biphenyl (IBB)         - mg/kg         25         ND           Dibrominated biphenyl (IBB)         - mg/kg         25         ND           Tribrominated biphenyl (TriBB)         - mg/kg         25         ND           Tetrabrominated biphenyl (PertaBB)         - mg/kg         25         ND           Pentabrominated biphenyl (PertaBB)         - mg/kg         25         ND           Hexabrominated biphenyl (HexaBB)         - mg/kg         25         ND           Hexabrominated biphenyl (HeptaBB)         - mg/kg         25         ND           Octabrominated biphenyl (HeptaBB)         - mg/kg         25         ND           Nonabrominated biphenyl (NonaBB)         - mg/kg         25         ND           Nonabrominated biphenyl (PocaBB)         - mg/kg         25         ND           Nonabrominated diphenyl ethers (PBDE)         1000         mg/kg         25         ND           Polybrominated diphenyl ether (PBDE)         - mg/kg         25         ND           Monobrominated diphenyl ether (DiBDE)         - mg/kg         25         ND	Mercury(Hg)	1000	mg/kg		ND
Polybrominated biphenyls (PBB)   1000   mg/kg   - ND   Monobrominated biphenyl (MonoBB)   - mg/kg   25   ND   Dibrominated biphenyl (DiBB)   - mg/kg   25   ND   Tribrominated biphenyl (TriBB)   - mg/kg   25   ND   Tribrominated biphenyl (TetraBB)   - mg/kg   25   ND   Pentabrominated biphenyl (PentaBB)   - mg/kg   25   ND   Pentabrominated biphenyl (PentaBB)   - mg/kg   25   ND   Hexabrominated biphenyl (HexaBB)   - mg/kg   25   ND   Hexabrominated biphenyl (HeptaBB)   - mg/kg   25   ND   Heptabrominated biphenyl (HeptaBB)   - mg/kg   25   ND   Nonabrominated biphenyl (OctaBB)   - mg/kg   25   ND   Nonabrominated biphenyl (NonaBB)   - mg/kg   25   ND   Nonabrominated biphenyl (NonaBB)   - mg/kg   25   ND   ND   Polybrominated biphenyl (PeataBB)   - mg/kg   25   ND   Polybrominated diphenyl ethers (PBDE)   1000   mg/kg   - ND   Nonabrominated diphenyl ethers (PBDE)   1000   mg/kg   - ND   Nonabrominated diphenyl ether (PBDE)   - mg/kg   25   ND   Dibrominated diphenyl ether (TriBDE)   - mg/kg   25   ND   Tribrominated diphenyl ether (TriBDE)   - mg/kg   25   ND   Tribrominated diphenyl ether (TriBDE)   - mg/kg   25   ND   Tetrabrominated diphenyl ether (TriBDE)   - mg/kg   25   ND   Pentabrominated diphenyl ether (PentaBDE)   - mg/kg   25   ND   Hexabrominated diphenyl ether   - mg/kg   25   ND   Hexabrominated diphenyl ether   - mg/kg   25   ND   Ctabrominated diphenyl ether   - mg/kg   25   ND   (HexaBDE)   - mg/kg   25   ND   Ctabrominated diphenyl ether   - mg/kg   25   ND   Dibutyl bribalate (BBP)   1000   mg/kg   50   ND   Dibutyl phthalate (DBP)   1000   mg/kg   50   ND   Dibutyl phthalate (DBP)   1000   mg/kg   50   ND   Dibutyl phthalate (DBP)   1000   mg/kg   50   ND	Cadmium(Cd)	100		2	ND
Monobrominated biphenyl (Monobb)	Hexavalent Chromium (Cr(VI)) ▼	-	μg/cm²	0.10	ND
Dibrominated biphenyl (DiBB)	Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Tribrominated biphenyl (TriBB)	Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB) - mg/kg 25 ND Pentabrominated biphenyl (PentaBB) - mg/kg 25 ND Hexabrominated biphenyl (HexaBB) - mg/kg 25 ND Hexabrominated biphenyl (HeptaBB) - mg/kg 25 ND Heptabrominated biphenyl (OctaBB) - mg/kg 25 ND Octabrominated biphenyl (OctaBB) - mg/kg 25 ND Nonabrominated biphenyl (NonaBB) - mg/kg 25 ND Decabrominated biphenyl (DecaBB) - mg/kg 25 ND Decabrominated diphenyl ethers (PBDE) 1000 mg/kg - ND Monobrominated diphenyl ether (MonoBDE) - mg/kg 25 ND Dibrominated diphenyl ether (DiBDE) - mg/kg 25 ND Tribrominated diphenyl ether (TriBDE) - mg/kg 25 ND Tetrabrominated diphenyl ether - mg/kg 25 ND Tetrabrominated dipheny	Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB) - mg/kg 25 ND Hexabrominated biphenyl (HexaBB) - mg/kg 25 ND Heptabrominated biphenyl (HeptaBB) - mg/kg 25 ND Octabrominated biphenyl (OctaBB) - mg/kg 25 ND Nonabrominated biphenyl (NonaBB) - mg/kg 25 ND Nonabrominated biphenyl (NonaBB) - mg/kg 25 ND Decabrominated biphenyl (DecaBB) - mg/kg 25 ND Decabrominated diphenyl ethers (PBDE) 1000 mg/kg - ND Monobrominated diphenyl ether - mg/kg 25 ND Dibrominated diphenyl ether (DiBDE) - mg/kg 25 ND Dibrominated diphenyl ether (TriBDE) - mg/kg 25 ND Tribrominated diphenyl ether (TriBDE) - mg/kg 25 ND Tetrabrominated diphenyl ether - mg/kg 25 ND Tetrabrominated diphenyl ether - mg/kg 25 ND Hexabrominated diphenyl ether - mg/kg 25 ND Cotabrominated diphenyl ether - mg/kg 25 ND Hexabrominated diphenyl ether - mg/kg 25 ND Cotabrominated diphenyl ether - mg/kg 25 ND ND Cotabrominated diphenyl ether - mg/kg 25 ND Cotab	Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB) - mg/kg 25 ND	Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB) - mg/kg 25 ND Nonabrominated biphenyl (NonaBB) - mg/kg 25 ND Decabrominated biphenyl (DecaBB) - mg/kg 25 ND Polybrominated diphenyl ethers (PBDE) 1000 mg/kg - ND Monobrominated diphenyl ether - mg/kg 25 ND Dibrominated diphenyl ether (DiBDE) - mg/kg 25 ND Tribrominated diphenyl ether (TriBDE) - mg/kg 25 ND Tribrominated diphenyl ether (TriBDE) - mg/kg 25 ND Tetrabrominated diphenyl ether - mg/kg 25 ND Octabrominated diphenyl ether - mg/kg 25 ND Hexabrominated diphenyl ether - mg/kg 25 ND Octabrominated diphenyl ether - mg/kg 25 ND ND Nonabrominated diphenyl ether - mg/kg 25 ND ND Nonabrominated diphenyl ether - mg/kg 25 ND Sociabrominated diphenyl ether - mg/kg 25 ND Nonabrominated diphenyl ether - mg/kg 25 ND Nonabrominated diphenyl ether - mg/kg 25 ND Sociabrominated diphenyl ether - mg/kg 25 ND Nonabrominated diphenyl ether - mg/kg 25 ND	Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB) - mg/kg 25 ND Decabrominated biphenyl (DecaBB) - mg/kg 25 ND Polybrominated diphenyl ethers (PBDE) 1000 mg/kg - ND Monobrominated diphenyl ether (- mg/kg 25 ND Dibrominated diphenyl ether (DiBDE) - mg/kg 25 ND Tribrominated diphenyl ether (TriBDE) - mg/kg 25 ND Tetrabrominated diphenyl ether (TriBDE) - mg/kg 25 ND Tetrabrominated diphenyl ether -	Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB) - mg/kg 25 ND Polybrominated diphenyl ethers (PBDE) 1000 mg/kg - ND Monobrominated diphenyl ether (MonoBDE) - mg/kg 25 ND Dibrominated diphenyl ether (DiBDE) - mg/kg 25 ND Tribrominated diphenyl ether (TriBDE) - mg/kg 25 ND Tetrabrominated diphenyl ether (TriBDE) - mg/kg 25 ND Tetrabrominated diphenyl ether - mg/kg 25 ND Pentabrominated diphenyl ether - mg/kg 25 ND Pentabrominated diphenyl ether - mg/kg 25 ND Hexabrominated diphenyl ether - mg/kg 25 ND Hexabrominated diphenyl ether - mg/kg 25 ND Heptabrominated diphenyl ether - mg/kg 25 ND Octabrominated diphenyl ether - mg/kg 25 ND Octabrominated diphenyl ether - mg/kg 25 ND Octabrominated diphenyl ether - mg/kg 25 ND Decabrominated diphenyl ether - mg/kg 25 ND Nonabrominated diphenyl ether - mg/kg 25 ND Decabrominated diphenyl ether - mg/kg 25 ND	Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE) 1000 mg/kg - ND  Monobrominated diphenyl ether (MonoBDE) - mg/kg 25 ND  Dibrominated diphenyl ether (DiBDE) - mg/kg 25 ND  Tribrominated diphenyl ether (TriBDE) - mg/kg 25 ND  Tetrabrominated diphenyl ether (TriBDE) - mg/kg 25 ND  Tetrabrominated diphenyl ether - mg/kg 25 ND  Tetrabrominated diphenyl ether - mg/kg 25 ND  Hexabrominated diphenyl ether - mg/kg 25 ND  Hexabrominated diphenyl ether - mg/kg 25 ND  Heptabrominated diphenyl ether - mg/kg 25 ND  Cotabrominated diphenyl ether - mg/kg 25 ND  Octabrominated diphenyl ether - mg/kg 25 ND  Nonabrominated diphenyl ether - mg/kg 25 ND  Nonabrominated diphenyl ether - mg/kg 25 ND  Nonabrominated diphenyl ether - mg/kg 25 ND  Decabrominated diphenyl ether - mg/kg 25 ND  Bis(2-ethylhexyl) phthalate (DEHP) 1000 mg/kg 50 ND  Butyl benzyl phthalate (DBP) 1000 mg/kg 50 ND  Dibutyl phthalate (DBP) 1000 mg/kg 50 ND	Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Monobrominated diphenyl ether (MonoBDE)  Dibrominated diphenyl ether (DiBDE)  Tribrominated diphenyl ether (TriBDE)  Tetrabrominated diphenyl ether (TriBDE)  Pentabrominated diphenyl ether (TetraBDE)  Pentabrominated diphenyl ether (PentaBDE)  Hexabrominated diphenyl ether (HexaBDE)  Hexabrominated diphenyl ether - mg/kg 25 ND  Heptabrominated diphenyl ether - mg/kg 25 ND  Heptabrominated diphenyl ether - mg/kg 25 ND  Hoptabrominated diphenyl ether - mg/kg 25 ND  Cotabrominated diphenyl ether - mg/kg 25 ND  Octabrominated diphenyl ether - mg/kg 25 ND  Nonabrominated diphenyl ether - mg/kg 25 ND  Sis(2-ethylhexyl) phthalate (DEHP) 1000 mg/kg 50 ND  Butyl benzyl phthalate (BBP) 1000 mg/kg 50 ND  Dibutyl phthalate (DBP) 1000 mg/kg 50 ND	Decabrominated biphenyl (DecaBB)	-	mg/kg	25	
MonoBDE    -   mg/kg   25   ND	Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Dibrominated diphenyl ether (DiBDE) - mg/kg 25 ND  Tribrominated diphenyl ether (TriBDE) - mg/kg 25 ND  Tetrabrominated diphenyl ether (TetraBDE) - mg/kg 25 ND  Tetrabrominated diphenyl ether - mg/kg 25 ND  Pentabrominated diphenyl ether - mg/kg 25 ND  Hexabrominated diphenyl ether - mg/kg 25 ND  Hexabrominated diphenyl ether - mg/kg 25 ND  Heptabrominated diphenyl ether - mg/kg 25 ND  Octabrominated diphenyl ether - mg/kg 25 ND  Octabrominated diphenyl ether - mg/kg 25 ND  Nonabrominated diphenyl ether - mg/kg 25 ND  Nonabrominated diphenyl ether - mg/kg 25 ND  Nonabrominated diphenyl ether - mg/kg 25 ND  Decabrominated diphenyl ether - mg/kg 25 ND  Bis(2-ethylhexyl) phthalate (DEHP) 1000 mg/kg 50 ND  Butyl benzyl phthalate (DBP) 1000 mg/kg 50 ND  Dibutyl phthalate (DBP) 1000 mg/kg 50 ND	Monobrominated diphenyl ether	_	ma/ka	25	ND
Tribrominated diphenyl ether (TriBDE) - mg/kg 25 ND  Tetrabrominated diphenyl ether (TetraBDE)  Pentabrominated diphenyl ether (PentaBDE)  Hexabrominated diphenyl ether (HexaBDE)  Hexabrominated diphenyl ether (HexaBDE)  Heptabrominated diphenyl ether (HeptaBDE)  Octabrominated diphenyl ether (OctaBDE)  Nonabrominated diphenyl ether (OctaBDE)  Nonabrominated diphenyl ether - mg/kg 25 ND  Decabrominated diphenyl ether - mg/kg 50 ND  Bis(2-ethylhexyl) phthalate (DEHP) 1000 mg/kg 50 ND  Dibutyl benzyl phthalate (BBP) 1000 mg/kg 50 ND  Dibutyl phthalate (DBP) 1000 mg/kg 50 ND		_	mg/kg		
Tetrabrominated diphenyl ether (TetraBDE)  Pentabrominated diphenyl ether (PentaBDE)  Hexabrominated diphenyl ether (HexaBDE)  Hexabrominated diphenyl ether (HexaBDE)  Heptabrominated diphenyl ether (HeptaBDE)  Octabrominated diphenyl ether (OctaBDE)  Nonabrominated diphenyl ether (OctaBDE)  Nonabrominated diphenyl ether (NonaBDE)  Nonabrominated diphenyl ether (DecaBDE)  Decabrominated diphenyl ether (DecaBDE)  Decabrominated diphenyl ether (DecaBDE)  Decabrominated diphenyl ether (DecaBDE)  Decabrominated diphenyl ether (DecaBDE)  Bis(2-ethylhexyl) phthalate (DEHP)  Dibutyl benzyl phthalate (BBP)  Dibutyl phthalate (DBP)  Tetrabrominated diphenyl ether (DecaBDE)  ND  ND  ND  ND  ND  ND  ND  ND  ND  N		-			
CetraBDE    -   mg/kg   25   ND		-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)  Hexabrominated diphenyl ether (HexaBDE)  Heptabrominated diphenyl ether (HexaBDE)  Heptabrominated diphenyl ether (HeptaBDE)  Octabrominated diphenyl ether (OctaBDE)  Nonabrominated diphenyl ether (NonaBDE)  Nonabrominated diphenyl ether (NonaBDE)  Decabrominated diphenyl ether (DecaBDE)  Decabrominated diphenyl ether (DecaBDE)  Decabrominated diphenyl ether (DecaBDE)  Decabrominated diphenyl ether (DecaBDE)  Bis(2-ethylhexyl) phthalate (DEHP)  Butyl benzyl phthalate (BBP)  Dibutyl phthalate (DBP)  1000  mg/kg  50  ND		_	ma/ka	25	ND
PentaBDE			mg/kg	20	ND
PentabDE   Hexabrominated diphenyl ether (HexaBDE)   - mg/kg   25   ND		_	ma/ka	25	ND
(HexaBDE)-Img/kg25NDHeptabrominated diphenyl ether (HeptaBDE)-mg/kg25NDOctabrominated diphenyl ether (OctaBDE)-mg/kg25NDNonabrominated diphenyl ether (NonaBDE)-mg/kg25NDDecabrominated diphenyl ether (DecaBDE)-mg/kg25NDBis(2-ethylhexyl) phthalate (DEHP)1000mg/kg50NDButyl benzyl phthalate (BBP)1000mg/kg50NDDibutyl phthalate (DBP)1000mg/kg50ND			mg/kg	20	110
Heptabrominated diphenyl ether (HeptaBDE)		_	ma/ka	25	ND
(HeptaBDE)         -         mg/kg         25         ND           Octabrominated diphenyl ether (OctaBDE)         -         mg/kg         25         ND           Nonabrominated diphenyl ether (NonaBDE)         -         mg/kg         25         ND           Decabrominated diphenyl ether (DecaBDE)         -         mg/kg         25         ND           Bis(2-ethylhexyl) phthalate (DEHP)         1000         mg/kg         50         ND           Butyl benzyl phthalate (BBP)         1000         mg/kg         50         ND           Dibutyl phthalate (DBP)         1000         mg/kg         50         ND			3 3	-	
Octabrominated diphenyl ether (OctaBDE)         -         mg/kg         25         ND           Nonabrominated diphenyl ether (NonaBDE)         -         mg/kg         25         ND           Decabrominated diphenyl ether (DecaBDE)         -         mg/kg         25         ND           Bis(2-ethylhexyl) phthalate (DEHP)         1000         mg/kg         50         ND           Butyl benzyl phthalate (BBP)         1000         mg/kg         50         ND           Dibutyl phthalate (DBP)         1000         mg/kg         50         ND		-	mg/kg	25	ND
(OctaBDE)         -         mg/kg         25         ND           Nonabrominated diphenyl ether (NonaBDE)         -         mg/kg         25         ND           Decabrominated diphenyl ether (DecaBDE)         -         mg/kg         25         ND           Bis(2-ethylhexyl) phthalate (DEHP)         1000         mg/kg         50         ND           Butyl benzyl phthalate (BBP)         1000         mg/kg         50         ND           Dibutyl phthalate (DBP)         1000         mg/kg         50         ND			3 3		
Nonabrominated diphenyl ether (NonaBDE)   -   mg/kg   25   ND		-	mg/kg	25	ND
(NonaBDE)         -         mg/kg         25         ND           Decabrominated diphenyl ether (DecaBDE)         -         mg/kg         25         ND           Bis(2-ethylhexyl) phthalate (DEHP)         1000         mg/kg         50         ND           Butyl benzyl phthalate (BBP)         1000         mg/kg         50         ND           Dibutyl phthalate (DBP)         1000         mg/kg         50         ND					
Decabrominated diphenyl ether (DecaBDE) - mg/kg 25 ND  Bis(2-ethylhexyl) phthalate (DEHP) 1000 mg/kg 50 ND  Butyl benzyl phthalate (BBP) 1000 mg/kg 50 ND  Dibutyl phthalate (DBP) 1000 mg/kg 50 ND		-	mg/kg	25	ND
(DecaBDE)-ITIg/kg25NDBis(2-ethylhexyl) phthalate (DEHP)1000mg/kg50NDButyl benzyl phthalate (BBP)1000mg/kg50NDDibutyl phthalate (DBP)1000mg/kg50ND					
Bis(2-ethylhexyl) phthalate (DEHP)1000mg/kg50NDButyl benzyl phthalate (BBP)1000mg/kg50NDDibutyl phthalate (DBP)1000mg/kg50ND		-	mg/kg	25	ND
Butyl benzyl phthalate (BBP)1000mg/kg50NDDibutyl phthalate (DBP)1000mg/kg50ND		1000	ma/ka	50	ND
Dibutyl phthalate (DBP) 1000 mg/kg 50 ND					
	Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

- (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



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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/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive-unavoidable coating variations may influence the determination.

▲ According to the declaration from the client, Lead (Pb) in No.A26 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).

More information about exemption can be found via the following link:

https://rohs.sqsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf ▲ According to the declaration from the client, Lead (Pb) in No.A4 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.

More information about exemption can be found via the following link:

https://rohs.sqsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf 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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\*\*Attention:\*\*To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755)8397 1443

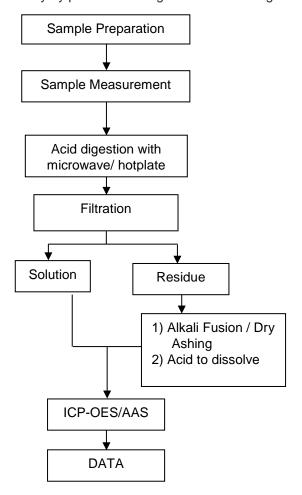
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### **Elements Testing Flow Chart**

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





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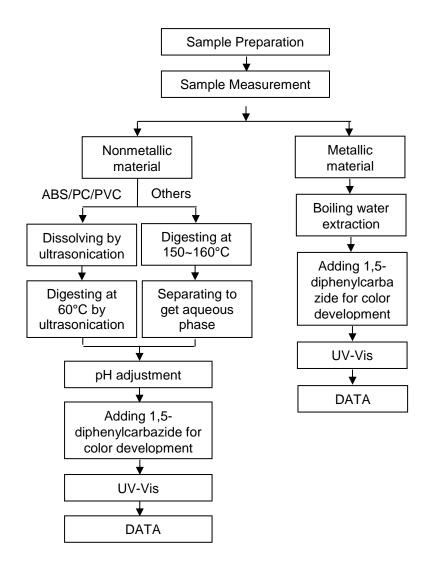


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### Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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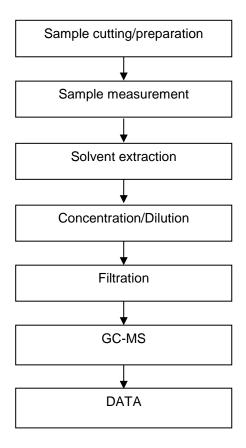
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### PBB/PBDE/Phthalates Testing Flow Chart





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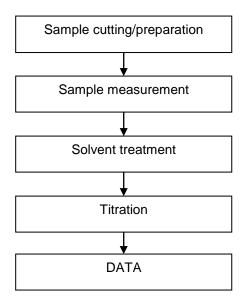


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### **Titration Testing Flow Chart**





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Sample Photo:







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