

Test Report	No.:	SHAEC24013680803	Date:	Jul 01, 2024	4 Page 1 of 9
Client Name:	SHANGHAI M	AGNTEK MICRO-ELECT	RONICS INC.		
Client Address:	3RD FLOOR, SHANGHAI, C	BUILDING 6, 99 HAIKE F CHINA	ROAD, ZHANG.	IIANGPUDO	NG NEW DISTRICT,
Sample Name:	F	lall Sensor			
Model No.:	C	DFN			
The above sam	ple(s) and infor	mation were provided by	the client.		
SGS Job No.:	S	SHP24-019887			
Sample Receivi	ing Date: J	un 24, 2024			
Testing Period:	J	un 24, 2024 ~ Jun 28, 20	24		
Test Requested	1: S	Select test(s) as requested	d by the client.		
Test Method(s)	: F	Please refer to next page	s).		
Test Result(s):	F	Please refer to next page(s).		
Test Require	ment				Conclusion
- Lead, Mercu (PBB), Polybro (DEHP), Butyl	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 Diisobutylphthalate (DIBP)				

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

y Lon

Jenny Lan **Approved Signatory**

Halogen



See Results



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Test Report

No.: SHAEC24013680803

Date: Jul 01, 2024

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A3	SHA24-0136808-0001.C003	Black/silvery solid

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

Test Item(s)	Limit	Unit(s)	MDL	A3
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND



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Test Item(s)		Limit	Unit(s)	MDL	A3
Octabrominated diphenyl ethe (OctaBDE)	r	-	mg/kg	5	ND
Nonabrominated diphenyl ethe (NonaBDE)	er	-	mg/kg	5	ND
Decabrominated diphenyl ethe (DecaBDE)	er	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DB	EHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)		1000	mg/kg	50	ND
Dibutyl phthalate (DBP)		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.

<u>Halogen</u>

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

Test Item(s)	Unit(s)	MDL	A3
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
lodine(I)	mg/kg	50	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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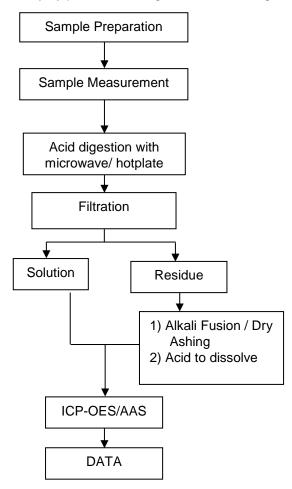
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Elements Testing Flow Chart

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





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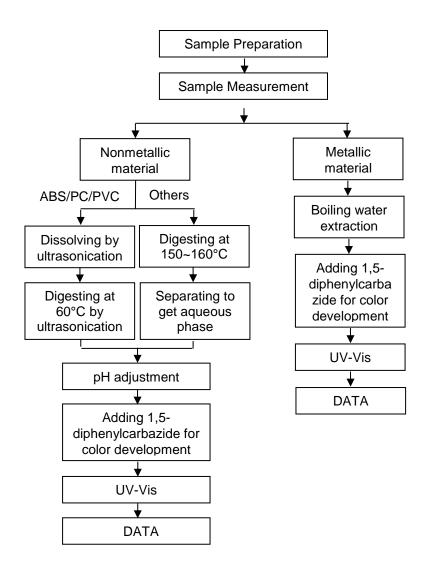
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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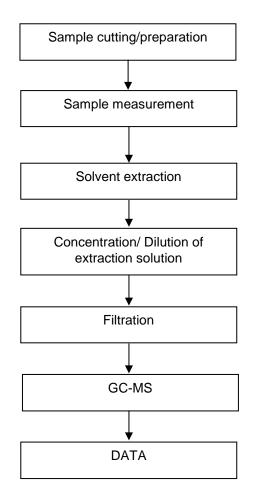
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PBB/PBDE Testing Flow Chart





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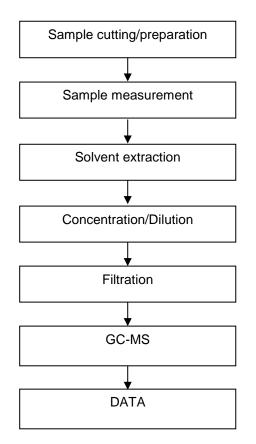
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Phthalates Testing Flow Chart





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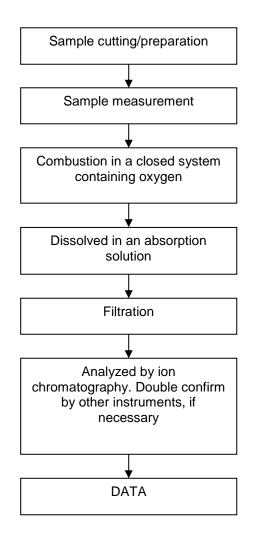
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Halogen Testing Flow Chart





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