

No. SHAEC2106884401

Date: 23 Apr 2021

Page 1 of 22

SH ELECTRONICS SUZHOU CO., LTD.

NO.123, LONGTAN RD.3RD DISTRICT, SUZHOU INDUSTRIAL PARK, SUZHOU, JIANGSU, CHINA(215126).

The following sample(s) was/were submitted and identified on behalf of the clients as : SILVER (Lead Frame Plated Layer)

SGS Job No. :	SP21-011122 - SUZ
Model No. :	SILVER (Plated Layer)
Date of Sample Received :	15 Apr 2021
Testing Period :	15 Apr 2021 - 21 Apr 2021
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Denki

Denki Zheng Approved Signatory





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No. SHAEC2106884401

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-068844.001	Silver Metal

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

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 ICP-OES.

- (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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
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))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND



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Test Report	No. SHAEC210	No. SHAEC2106884401			Date: 23 Apr 2021		
<u>Test Item(s)</u>		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>		
Monobromodiphenyl ether		-	mg/kg	5	ND		
Dibromodiphenyl ether		-	mg/kg	5	ND		
Tribromodiphenyl ether		-	mg/kg	5	ND		
Tetrabromodiphenyl ether		-	mg/kg	5	ND		
Pentabromodiphenyl ether		-	mg/kg	5	ND		
Hexabromodiphenyl ether		-	mg/kg	5	ND		
Heptabromodiphenyl ether		-	mg/kg	5	ND		
Octabromodiphenyl ether		-	mg/kg	5	ND		

Octabro Nonabromodiphenyl ether mg/kg 5 ND Decabromodiphenyl ether mg/kg 5 ND Di-butyl Phthalate (DBP) 50 1000 mg/kg ND Benzyl Butyl Phthalate (BBP) 1000 mg/kg 50 ND Di-2-Ethyl Hexyl Phthalate (DEHP) 1000 50 ND mg/kg **Diisobutyl Phthalates (DIBP)** 1000 50 ND mg/kg

Notes :

> (1)The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID.FSP_LANG

ID:1258637.25

(2) = 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.

Halogen

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

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND



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Page 3 of 22



No. SHAEC2106884401

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Date: 23 Apr 2021
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Page 4 of 22
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Element(s)

Test Method : With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Antimony (Sb)		mg/kg	10	ND
Antimony trioxide (Sb₂O₃)◆		mg/kg	12	ND
Beryllium (Be)		mg/kg	5	ND
Beryllium oxide (BeO) ◆		mg/kg	15	ND
Arsenic (As)		mg/kg	10	ND
Diarsenic trioxide (As₂O₃) ◆	1327-53-3	mg/kg	10	ND
Diarsenic pentaoxide (As₂O₅) ◆	1303-28-2	mg/kg	10	ND

Notes :

(1) Calculated concentration of BeO is based on the identified Be
 Calculated concentration of Sb₂O₃ is based on the identified Sb
 Calculated concentration of diarsenic pentaoxide and diarsenic trioxide are based on the identified arsenic

PVC(Polyvinyl chloride)

Test Method : SGS In-house method(SHTC- CHEM- SOP -347-T), analysis was performed by Pyrolysis-GC-MS.

Test Item(s)	<u>Unit</u>	MDL	<u>001</u>
Polyvinyl chloride component	%	0.05	ND

Notes :

(1) Polyvinyl chloride component includes its present in copolymer.

Polychlorinated Naphthalenes (PCNs)

Test Method : With reference to US EPA 8081B: 2007, analysis was performed by GC-MS

<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>001</u>
2-Chlorinated Naphthalene	mg/kg	5	ND
1,4-Dichlorinated Naphthalene	mg/kg	5	ND
1,5-Dichlorinated Naphthalene	mg/kg	5	ND

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Test Report	No. SHAEC2106884401		Date: 23 Apr 2021		Page 5 of 22	
<u>Test Item(s)</u>		<u>Unit</u>	<u>MDL</u>	<u>001</u>		
1,2-Dichlorinated Naphthalene		mg/kg	5	ND		
1,8-Dichlorinated Naphthalene		mg/kg	5	ND		
1,2,3-Trichlorinated Naphthalene		mg/kg	5	ND		
1,2,3,4-Tetrachlorinated Naphthalen	e	mg/kg	5	ND		
1,2,3,4,6-Pentachlorinated Naphthal	ene	mg/kg	5	ND		
Octa-chlorinaed Naphthalene		mg/kg	5	ND		
1-Chlorinated Naphthalene		mg/kg	5	ND		

Organic-tin Compounds

Test Method : With reference to DIN 38407-13:2001, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>001</u>
TributyItin (TBT)	mg/kg	0.02	ND
Triphenyltin (TPhT)	mg/kg	0.02	ND
Tributyl Tin Oxide (TBTO) •	mg/kg	0.02	ND
Dioctyltin (DOT)	mg/kg	0.02	ND
Dibutyltin (DBT)	mg/kg	0.02	ND

Notes :

(1) ◆ = TBTO is back calculated based on the worst-case scenario of TBT.

Short-chain Chlorinated Paraffin (SCCP)

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

<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>001</u>
Short-chain Chlorinated Paraffin (SCCP) (C10-C13)	mg/kg	50	ND

Hexabromocyclododecane (HBCDD/HBCD)

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



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Test Report	Report No. SHAEC2106884401		Date: 2	3 Apr 2021	Page 6 of 22
<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Hexabromocyclododecane	25637-99-4, 3194	mg/kg	10	ND	
(HBCDD/HBCD)	-55-6				

Polychlorinated Terphenyls (PCTs)

Test Method : With reference to US EPA 8082A: 2007, analysis was performed by GC-MS

<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>001</u>
Aroclor 5432	mg/kg	5	ND
Aroclor 5442	mg/kg	5	ND
Aroclor 5460	mg/kg	5	ND

Phthalates Content

Test Method : With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Di-butyl Phthalate (DBP)	84-74-2	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	mg/kg	50	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	84-69-5	mg/kg	50	ND
Diisopentylphthalate (DiPP)	605-50-5	mg/kg	50	ND
iso-pentyl n-Pentyl phthalate (iPnPP)	776297-69-9	mg/kg	50	ND
Di-n-pentyl Phthalates (DnPP)	131-18-0	mg/kg	50	ND
Diisoheptyl phthalate (DIHP)	71888-89-6	mg/kg	50	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and	68515-42-4	mg/kg	50	ND
linear alkyl esters(DHNUP)				
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	mg/kg	50	ND
Dihexyl Phthalates (DHP, DHxP)	84-75-3	mg/kg	50	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	mg/kg	50	ND
Diisononyl Phthalate (DINP)	28553-12-0	mg/kg	50	ND
	/68515-48-0			
Diisodecyl Phthalate (DIDP)	26761-40-0	mg/kg	50	ND
	/68515-49-1			
Bis-n-heptyl phthalate (DHpP)	3648-21-3	mg/kg	50	ND
1,2-Benzenedicarboxylic,dihexylester, branched and linear	68515-50-4	mg/kg	50	ND



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No. SHAEC2106884401

Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA)

Test Method : With reference to CEN/TS 15968:2010, analysis is performed by HPLC-MS or LC-MS-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Perfluorooctane Sulfonates (PFOS)^	1763-23-1	mg/kg	0.01	ND
Perfluorooctanoic Acid (PFOA) and its salts+		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) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-DDA(CAS No.: 251099-16-8) and POSF (CAS No.: 307-35-7)

Polychlorinated Biphenyls (PCBs)

Test Method : With reference to US EPA 8082A: 2007, analysis was performed by GC-MS

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
2,4,4'-Trichlorobiphenyl (PCB 28)	7012-37-5	mg/kg	0.5	ND
2,2',5,5'-Tetrachloro-biphenyl (PCB 52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'-Pentachloro-biphenyl (PCB 101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	31508-00-6	mg/kg	0.5	ND
2,2',3,4,4',5'-Hexachloro-biphenyl (PCB 138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-Hexachloro-biphenyl (PCB 153)	35065-27-1	mg/kg	0.5	ND
2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	35065-29-3	mg/kg	0.5	ND



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No. SHAEC2106884401

Date: 23 Apr 2021

Page 8 of 22

ATTACHMENTS

Elements (IEC62321) Testing Flow Chart

- 1) Name of the person who made testing: Meria Jin/Sielina Song
- 2) Name of the person in charge of testing: Luna Xu/Bob Zhang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.





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ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart

- 1) Name of the person who made testing: Alex Wang
- 2) Name of the person in charge of testing: Xiaolong Yang





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PBBs/PBDEs Testing Flow Chart

- 1) Name of the person who made testing: Gary Xu
- 2) Name of the person in charge of testing: Myra Ma





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Date: 23 Apr 2021

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Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Alina Li
- 2) Name of the person in charge of testing: Jason Zhang





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HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Gary Xu
- 2) Name of the person in charge of testing: Myra Ma





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Test Report

Halogen Testing (oxygen bomb) Flow Chart

- 1) Name of the person who made testing: Kevin Xu
- 2) Name of the person in charge of testing: Allen Chen





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Elements Testing Flow Chart

- 1) Name of the person who made testing: Meria Jin/Sielina Song
- 2) Name of the person in charge of testing: Luna Xu/Bob Zhang





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PFASs/ PFOS/PFOA Testing Flow Chart

- 1) Name of the person who made testing: Joe Qiao
- 2) Name of the person in charge of testing: Richer Yu





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PCB Testing Flow Chart

- 1) Name of the person who made testing: David Dai
- 2) Name of the person in charge of testing: Jessy Huang





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PCN Testing Flow Chart

- 1) Name of the person who made testing: David Dai
- 2) Name of the person in charge of testing: Jessy Huang





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PCT Testing Flow Chart

- 1) Name of the person who made testing: David Dai
- 2) Name of the person in charge of testing: Jessy Huang





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Test Report

Chlorinated Paraffin Testing Flow Chart

- 1) Name of the person who made testing: David Dai
- 2) Name of the person in charge of testing: Jessy Huang





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Organotin Testing Flow Chart

- 1) Name of the person who made testing: Liyas Wang
- 2) Name of the person in charge of testing: Myra Ma





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PVC Testing Flow Chart

- 1) Name of the person who made testing: Teresa Gao/ Roger Hu
- 2) Name of the person in charge of testing: Grace Chen





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