

Test Report Date: 08 Jan 2020 No. SHAHG1928634601 Page 1 of 17

CHANGZHOU HUAWEI ELECTRONIC CO., LTD ZOUQU TOWN, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: ALUMINIUM

ELECTROLYTIC CAPACITOR (CONDUCTIVE POLYMER)

SGS Job No.: CZHL1912005409OT - SH

Date of Sample Received: 24 Dec 2019

24 Dec 2019 - 06 Jan 2020 Testing Period:

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).

Result Summary:

Test Requested	Conclusion
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS
Halogen	See Results
Antimony (Sb)	See Results
Antimony (Sb)	See Results
Phthalates Content	See Results

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

Halery Han

Approved Signatory

Halery Han





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Test Results:

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	SHA19-286346.001	Silvery metal sheet
SN2	SHA19-286346.002	Silvery metal sheet
SN3	SHA19-286346.003	Black liquid
SN4	SHA19-286346.004	Silvery metal lead wire
SN5	SHA19-286346.005	Black soft plastic part
SN6	SHA19-286346.006	Red paint
SN7	SHA19-286346.007	Silvery metal shell

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

With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC Test Method: 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>005</u>	<u>006</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	ND	8	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	ND
Sum of PBBs	1000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1000	mg/kg	-	ND	ND	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>005</u>	<u>006</u>
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND	ND

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) 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.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

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

With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013 and IEC62321-7-1:2015, Test Method: analyzed by ICP-OES, AAS and UV-Vis .

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>004</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	ND	7	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	μg/cm²	0.10	ND	ND	ND



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Hexavalent Chromium (Cr(VI))▼

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Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>007</u>	
Cadmium (Cd)	100	mg/kg	2	ND	
Lead (Pb)	1000	mg/kg	2	ND	
Mercury (Hg)	1000	mg/kg	2	ND	

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

µq/cm²

0.10

ND

- (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 $\mu g/cm^2$ and 0.13 $\mu g/cm^2$ 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: 2007, analysis was performed by Ion Chromatograph (IC).

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>005</u>	<u>006</u>
Fluorine (F)	mg/kg	50	ND	173	ND
Chlorine (CI)	mg/kg	50	ND	85	82
Bromine (Br)	mg/kg	50	ND	ND	ND
lodine (I)	ma/ka	50	ND	ND	ND

Antimony (Sb)

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>005</u>	<u>006</u>
Antimony (Sb)	mg/kg	10	ND	ND	ND



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Antimony (Sb)

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>004</u>
Antimony (Sb)	mg/kg	10	ND	ND	ND

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>007</u>
Antimony (Sb)	mg/kg	10	ND

Phthalates Content

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Dibutyl Phthalate (DBP)	84-74-2	%	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0	%	0.01	ND
	/68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0	%	0.01	ND
	/68515-49-1			
1,2-Benzenedicarboxylic,dihexylester, branched and	68515-50-4	%	0.01	ND
linear (DHP)				
Di-n-hexyl Phthalate (DnHP)	84-75-3	%	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%	0.003	ND
Diisopentylphthalate (DIPP)	605-50-5	%	0.003	ND
Di-n-pentyl Phthalates (DnPP)	131-18-0	%	0.003	ND
N-Pentyl-isopentylphthalate (nPiPP)	776297-69-9	%	0.003	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	%	0.01	ND
and linear alkyl esters (DHNUP)				
Diisoheptyl phthalate (DIHP)	71888-89-6	%	0.01	ND
1,2-Benzenedicarboxylic acid, dipentyl ester,	84777-06-0	%	0.01	ND
branched and linear				



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Test Item(s)		CAS NO.	<u>Unit</u>	MDL	005
Dibutyl Phthalate (DBP)		84-74-2	<u></u>	0.003	<u> </u>
Benzylbutyl Phthalate (BBP)		85-68-7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)		117-81-7	%	0.003	
Diisononyl Phthalate (DINP)		28553-12-0	%	0.01	ND
,		/68515-48-0			
Di-n-octyl Phthalate (DNOP)		117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)		26761-40-0	%	0.01	ND
		/68515-49-1			
1,2-Benzenedicarboxylic,dihexylester	r, branched and	68515-50-4	%	0.01	ND
linear (DHP)		84-75-3	0/	0.002	ND
Di-n-hexyl Phthalate (DnHP)			%	0.003	
Diisobutyl Phthalate (DIBP)	٦١	84-69-5	%	0.003	
Bis(2-methoxyethyl) Phthalate (DMEI	-)	117-82-8	%	0.003	
Diisopentylphthalate (DIPP)		605-50-5	%	0.003	
Di-n-pentyl Phthalates (DnPP)		131-18-0	%	0.003	
N-Pentyl-isopentylphthalate (nPiPP)	441	776297-69-9	%	0.003	
1,2-Benzenedicarboxylic acid, di-C7- and linear alkyl esters (DHNUP)	11-branched	68515-42-4	%	0.01	ND
Diisoheptyl phthalate (DIHP)		71888-89-6	%	0.01	ND
1,2-Benzenedicarboxylic acid, dipent	yl ester,	84777-06-0	%	0.01	ND
branched and linear					
Test Item(s)		CAS NO.	<u>Unit</u>	MDL	006
Dibutyl Phthalate (DBP)		84-74-2	%	0.003	ND
Benzylbutyl Phthalate (BBP)		85-68-7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)		117-81-7	%	0.003	ND
Diisononyl Phthalate (DINP)		28553-12-0	%	0.01	ND
		/68515-48-0			
Di-n-octyl Phthalate (DNOP)		117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)		26761-40-0	%	0.01	ND
		/68515-49-1			
1,2-Benzenedicarboxylic,dihexylester linear (DHP)	r, branched and	68515-50-4	%	0.01	ND
Di-n-hexyl Phthalate (DnHP)		84-75-3	%	0.003	ND
Diisobutyl Phthalate (DIBP)		84-69-5	%	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEI	⁻)	117-82-8	%	0.003	ND
Diisopentylphthalate (DIPP)		605-50-5	%	0.003	ND
Di-n-pentyl Phthalates (DnPP)		131-18-0	%	0.003	ND
N-Pentyl-isopentylphthalate (nPiPP)		776297-69-9	%	0.003	ND
1,2-Benzenedicarboxylic acid, di-C7-	11-branched	68515-42-4	%	0.01	ND
and linear alled actors (DUNITE)					



and linear alkyl esters (DHNUP)

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Test Item(s) CAS NO. Unit MDL 006 Diisoheptyl phthalate (DIHP) 71888-89-6 % 0.01 ND 1,2-Benzenedicarboxylic acid, dipentyl ester, 84777-06-0 % 0.01 ND

branched and linear



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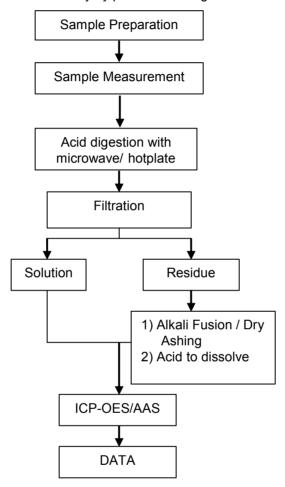
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Elements (IEC62321) Testing Flow Chart

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





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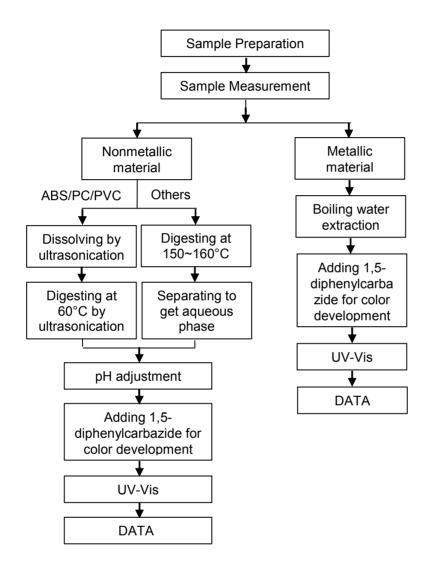
No. SHAHG1928634601

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ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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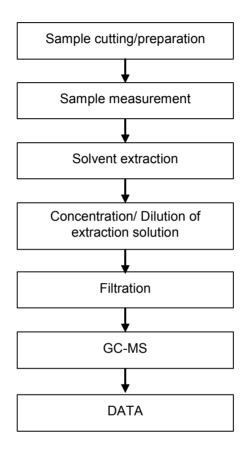
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PBBs/PBDEs Testing Flow Chart





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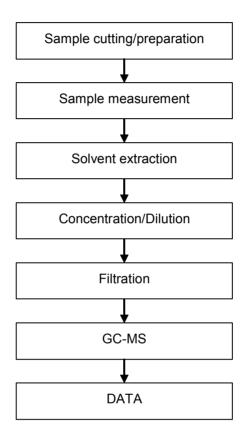
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Phthalates Testing Flow Chart





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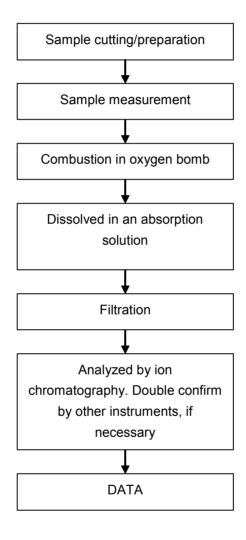
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Halogen Testing (oxygen bomb) Flow Chart





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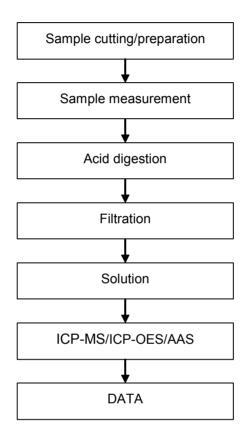
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Elements Testing Flow Chart





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Sample photo:







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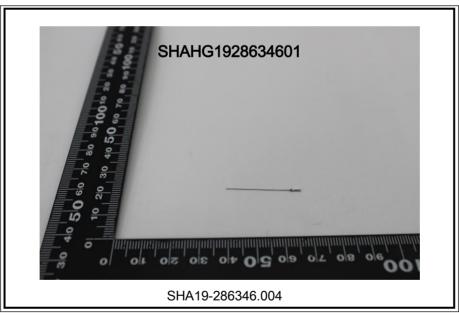
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