

Test Report No. CANEC1413657707 Date: 25 Aug 2014 Page 1 of 13

SHENZHEN RUILONGYUAN ELECTRONICS CO.,LTD 8F,RENWU BUILDING,13TH MEILIN ROAD,FUTIAN DISTRICT,SHENZHEN,CHINA

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

SGS Job No. : CP14-045069 - SZ

Date of Sample Received: 19 Aug 2014

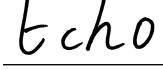
Testing Period: 19 Aug 2014 - 25 Aug 2014

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).

Signed for and on behalf of SGS-CSTC Ltd.



Echo Yeung Approved Signatory



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN14-136577.008 "Surge Absorber"(mixed)

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

Elementary Analysis & Flame Retardants

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, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	59203#
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	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	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>	
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	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II

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>008</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Polynuclear Aromatic Hydrocarbons (PAHs)

Test Method: With reference to ZEK 01.4-08 of German ZLS and its amendments, analysis was performed by GC-MS.

Test Item(s) Naphthalene(NAP)	<u>Unit</u> mg/kg	<u>MDL</u> 0.1	<u>008</u> ND
Acenaphthylene(ANY)	mg/kg	0.1	ND
Acenaphthene(ANA)	mg/kg	0.1	ND
Fluorene(FLU)	mg/kg	0.1	ND
Phenanthrene(PHE)	mg/kg	0.1	ND



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Test Item(s) Anthracene(ANT)	<u>Unit</u> mg/kg	MDL 0.1	<u>008</u> ND	
Fluoranthene(FLT)	mg/kg	0.1	ND	
Pyrene(PYR)	mg/kg	0.1	ND	
Benzo(a)anthracene(BaA)	mg/kg	0.1	ND	
Chrysene(CHR)	mg/kg	0.1	ND	
Benzo(b)fluoranthene(BbF) + Benzo(j)fluoranthene(BjF)	mg/kg	0.1	ND	
Benzo(k)fluoranthene(BkF)	mg/kg	0.1	ND	
Benzo(e)pyrene(BeP)	mg/kg	0.1	ND	
Benzo(a)pyrene(BaP)	mg/kg	0.1	ND	
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.1	ND	
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.1	ND	
Benzo(g,h,i)perylene(BPE)	mg/kg	0.1	ND	
Sum of 18 PAHs	mg/kg	-	ND	



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ZEK 01.4-08: Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Material indented to be put in the mouth or material for toys with normal skin contact for children aged < 36 months	Materials those are not included in Category 1, with predictable contact with the skin longer than 30 s. (long-term skin contact).	Materials those are not included in Category 1 or 2, with predictable skin contact up to 30 s (short-term skin contact).
Benzo(a)pyrene (mg/kg)	<0.2**	1	20
Sum of 18 PAH (mg/kg)*	<0.2**	10	200

Notes:

PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid)

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	800
Perfluorooctane Sulfonates (PFOS) and related	mg/kg	10	ND
Acid, Metal Salt and Amide			
Perfluorooctanoic Acid (PFOA)	mg/kg	10	ND

Notes:

For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004:

- (1) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.
- (2) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than 1μ g /m2 of the coated material.

Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.



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^{* =} Only PAH substances > 0.2 mg/kg are taken into account while calculating the sum of PAHs

^{** =} In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material which is indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.



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<u>Test Item(s)</u> Dibutyl Phthalate (DBP)	<u>CAS NO.</u> 84-74-2	<u>Unit</u> %(w/w)	MDL 0.003	<i>008</i> ND	
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND	
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND	
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.010	ND	
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND	
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.010	ND	
Dimethyl Phthalate (DMP)	131-11-3	%(w/w)	0.003	ND	
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.003	ND	
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND	
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.003	ND	
Diisooctyl Phthalate (DiOP)	27554-26-3	%(w/w)	0.010	ND	
Dipropyl Phthalate (DPrP)	131-16-8	%(w/w)	0.003	ND	
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	0.003	ND	
Dipentyl Phthalate (DPP)	131-18-0	%(w/w)	0.003	ND	



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<u>Test Item(s)</u> Dibenzyl Phthalate (DBzP)	<u>CAS NO.</u> 523-31-9	<u>Unit</u> %(w/w)	MDL 0.003	<u>008</u> ND	
Diphenyl Phthalate (DPhP)	84-62-8	%(w/w)	0.003	ND	
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND	

Notes:

- (1)DBP,BBP,DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

- (2)DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

Remark 1: #= Exceeds the limit

Remark 2: Result of Pb is only for reference

Remark 3: The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.



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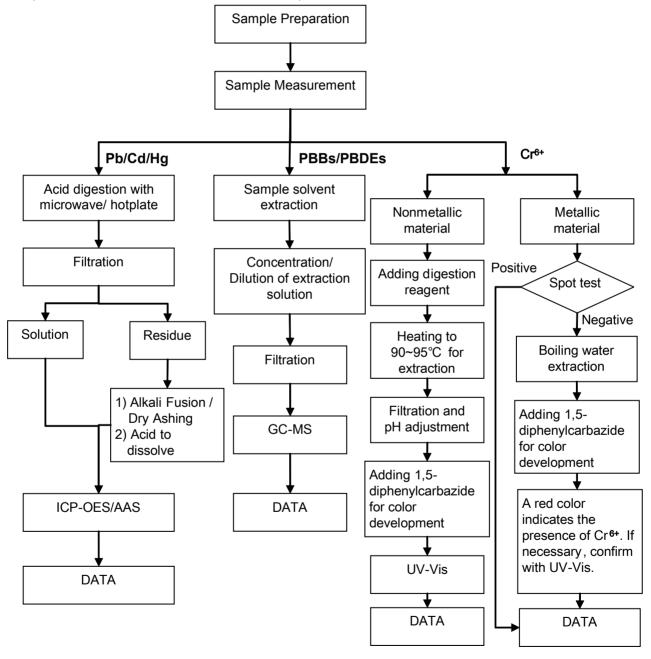
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RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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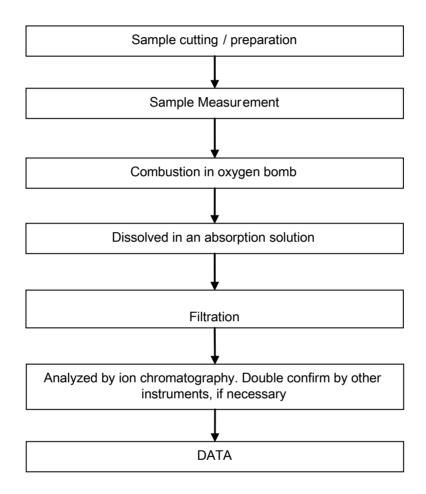
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Halogen Testing Flow Chart

1) Name of the person who made testing: Hanming Xiao

2) Name of the person in charge of testing: Bella Wang





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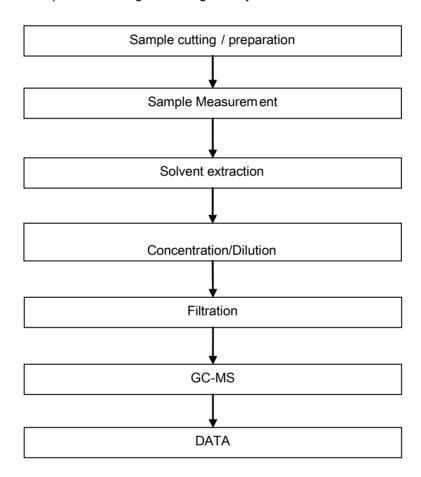
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Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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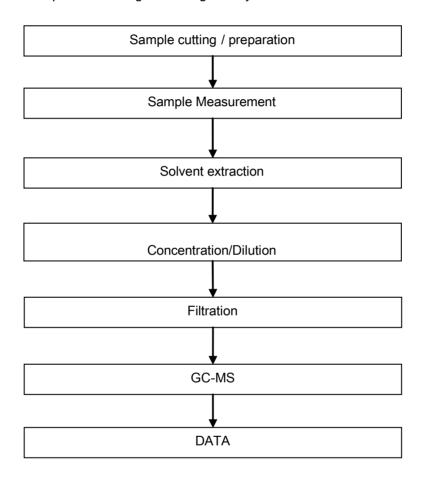
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PAHs Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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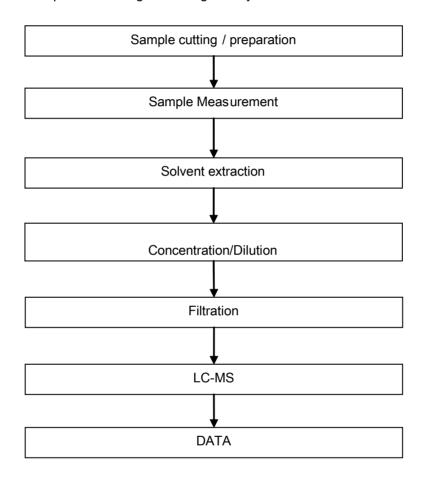
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PFOA / PFOS Testing Flow Chart

- 1) Name of the person who made testing: Zhihong Wang
- 2) Name of the person in charge of testing: Cutey Yu



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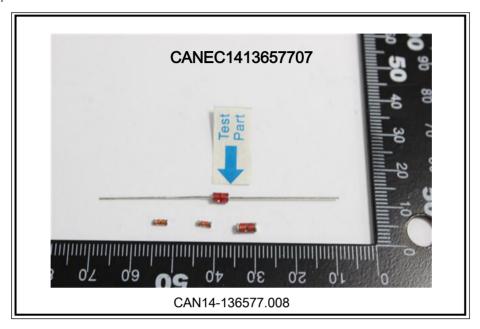


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