

Test Report (SVHC)

No. SHAEC2147228365

Date: 15 Mar 2014

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QianShengDa Technology Co.,Ltd.

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

SGS Job No. : SP14-026532 - SH

Model No. : SMD HSMC

Client Ref. Information : SMA SMB SMC HSMA HSMB HSMC SMAG SMBG SMCG SMAF SMBF SMCF
SOD-123 SOD-123FL SOD-123SL SOD-323 SOD-523 SOD-723
SOD-923, SOT-23, SOT-323, SOT-523, SOT-353, SOT-363, SOT-563,
SOT-553, SOT-723, SOT-89, MELF MINMELF D-PAK D2-PAK MB-S MBF
DB-S ABS CDS TBS R-1 A-405 DO-41 DO-15 R-3 DO-201AD R-6 TO-220AC
TO-220AB TO-3P TO-252 TO-92 MB-M DB-1 WOM KBP KBL KBU RS GBL
GBU KBJ GBJ KBPC KBPC-W GBPC GBPC-W

Date of Sample Received : 12 Jan 2014

Testing Period : 12 Jan 2014 - 12 Mar 2014

Test Requested : As requested by client, SVHC screening is performed according to:
(i) One hundred and forty four (144) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 20, 2014 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results : Please refer to next page(s).

Summary :

According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.

PASS

Signed for and on behalf of
SGS-CSTC Ltd.



JJ Fan

Approved Signatory

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Remark :

- (1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:

<http://echa.europa.eu/web/guest/candidate-list-table>

These lists are under evaluation by ECHA and may subject to change in the future.

- (2) Concerning article(s):

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

SGS adopts the interpretation of ECHA for SVHC in article unless indicated otherwise. Detail explanation is available at the following link:

http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS_SVHC-paper-EN-11.pdf

- (3) Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

- (4) Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC)

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No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as dangerous according Dangerous Preparations Directive 1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008, when their concentrations are equal to, or greater than, those defined in the Article 3(3) of 1999/45/EC or the lower values given in Part 3 of Annex VI of Regulation (EC) No. 1272/2008; or
- a mixture is not classified as dangerous under Directive 1999/45/EC, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits.

(5) If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Sample :

Sample Description :

Specimen No	SGS Sample ID	Description
1	SHA13-172282.001	Black Diode

Test Method :

SGS In-House method-SHTC-CHEM-SOP-97-T, SHTC-CHEM-SOP-302-T, Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC-DAD/MS and Colorimetric Method.

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Test Result : (Substances in the Candidate List of SVHC)

NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
1	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	219-943-6	ND	0.050
2	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	208-953-6	ND	0.050
3	[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	NA^	0.005
4	1,2,3-trichloropropane	96-18-4	202-486-1	ND	0.050
5	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	ND	0.050
6	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	ND	0.050
7	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	ND	0.050
8	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	ND	0.050
9	1,2-Dichloroethane	107-06-2	203-458-1	ND	0.050
10	1,2-Diethoxyethane	629-14-1	211-076-1	ND	0.050
11	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	ND	0.050
12	1-Bromopropane	106-94-5	203-445-0	ND	0.050
13	1-methyl-2-pyrrolidone	872-50-4	212-828-1	ND	0.050
14	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9	ND	0.050
15	2,4-Dinitrotoluene	121-14-2	204-450-0	ND	0.050

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NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
16	2-Ethoxyethanol	110-80-5	203-804-1	ND	0.050
17	2-ethoxyethyl acetate	111-15-9	203-839-2	ND	0.050
18	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	ND	0.050
19	2-Methoxyethanol	109-86-4	203-713-7	ND	0.050
20	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	ND	0.050
21	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	ND	0.050
22	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-	ND	0.050
23	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	202-027-5	ND	0.050
24	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	209-218-2	ND	0.050
25	4,4-Diaminodiphenylmethane(MDA)	101-77-9	202-974-4	ND	0.050
26	4,4'-Methylenedi-o-toluidine	838-88-0	212-658-8	ND	0.050
27	4,4'-Oxydianiline and its salts	101-80-4	202-977-0	ND	0.050
28	4-Aminoazobenzene	60-09-3	200-453-6	ND	0.050
29	4-Methyl-m-phenylenediamine	95-80-7	202-453-1	ND	0.050
30	4-Nonylphenol, branched and linear	-	-	ND	0.050
31	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	ND	0.050
32	6-Methoxy-m-toluidine	120-71-8	204-419-1	ND	0.050
33	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	ND	0.005
34	Acrylamide	79-06-1	201-173-7	ND	0.050
35	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	ND	0.050

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NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
36	Aluminosilicate Refractory Ceramic Fibres* [▲]	650-017-00-8 (Index no.)	-	ND	0.005
37	Ammonium dichromate*	7789-09-5	232-143-1	ND	0.005
38	Anthracene	120-12-7	204-371-1	ND	0.050
39	Anthracene oil*	90640-80-5	292-602-7	ND	0.050
40	Anthracene oil, anthracene paste*	90640-81-6	292-603-2	ND	0.050
41	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2	295-275-9	ND	0.050
42	Anthracene oil, anthracene paste, distn. lights*	91995-17-4	295-278-5	ND	0.050
43	Anthracene oil, anthracene-low*	90640-82-7	292-604-8	ND	0.050
44	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	ND	0.050
45	Arsenic acid*	7778-39-4	231-901-9	ND	0.005
46	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	ND	0.050
47	Biphenyl-4-ylamine	92-67-1	202-177-1	ND	0.050
48	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	ND	0.050
49	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	ND	0.050
50	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	ND	0.050
51	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	ND	0.050
52	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	ND	0.050
53	Boric acid*	10043-35-3, 11113-50-1	233-139-2 234-343-4	ND	0.005
54	Cadmium oxide*	1306-19-0	215-146-2	ND	0.005
55	Cadmium*	7440-43-9	231-152-8	ND	0.005

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NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
56	Calcium arsenate*	7778-44-1	231-904-5	ND	0.005
57	Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5, 13530-68-2	231-801-5 236-881-5	ND	0.005
58	Chromium trioxide*	1333-82-0	215-607-8	ND	0.005
59	Cobalt carbonate*	513-79-1	208-169-4	ND	0.005
60	Cobalt diacetate*	71-48-7	200-755-8	ND	0.005
61	Cobalt dichloride*	7646-79-9	231-589-4	ND	0.005
62	Cobalt dinitrate*	10141-05-6	233-402-1	ND	0.005
63	Cobalt sulphate*	10124-43-3	233-334-2	ND	0.005
64	Diarsenic pentaoxide*	1303-28-2	215-116-9	ND	0.005
65	Diarsenic trioxide*	1327-53-3	215-481-4	ND	0.005
66	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	ND	0.050
67	Diboron trioxide*	1303-86-2	215-125-8	ND	0.005
68	Dibutyl phthalate (DBP)	84-74-2	201-557-4	ND	0.050
69	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	ND	0.050
70	Dichromium tris(chromate) *	24613-89-6	246-356-2	ND	0.005
71	Diethyl sulphate	64-67-5	200-589-6	ND	0.050
72	Diisobutyl phthalate	84-69-5	201-553-2	ND	0.050
73	Diisopentylphthalate	605-50-5	210-088-4	ND	0.050
74	Dimethyl sulphate	77-78-1	201-058-1	ND	0.050
75	Dinoseb	88-85-7	201-861-7	ND	0.050
76	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	NA^	0.005

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NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
77	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	215-540-4	ND	0.005
78	Dipentyl phthalate (DPP)	131-18-0	205-017-9	ND	0.050
79	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	NA^	0.005
80	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1	ND	0.050
81	Formamide	75-12-7	200-842-0	ND	0.050
82	Furan	110-00-9	203-727-3	ND	0.050
83	Henicosfluoroundecanoic acid	2058-94-8	218-165-4	ND	0.050
84	Heptacosfluorotetradecanoic acid	376-06-7	206-803-4	ND	0.050
85	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) Δ	25637-99-4 , 3194-55-6	247-148-4 and 221-695-9	ND	0.050
86	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	ND	0.050
87	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	☆	☆	ND	0.050
88	Hydrazine	7803-57-8 , 302-01-2	206-114-9	ND	0.050
89	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	ND	0.005
90	Lead chromate*	7758-97-6	231-846-0	ND	0.005
91	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	ND	0.005

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92	Lead cyanamidate*	20837-86-9	244-073-9	NA^	0.005
93	Lead diazide*	13424-46-9	236-542-1	ND	0.005
94	Lead dinitrate*	10099-74-8	233-245-9	NA^	0.005
95	Lead dipicrate*	6477-64-1	229-335-2	ND	0.005
96	Lead hydrogen arsenate*	7784-40-9	232-064-2	ND	0.005
97	Lead monoxide*	1317-36-8	215-267-0	NA^	0.005
98	Lead oxide sulfate*	12036-76-9	234-853-7	NA^	0.005
99	Lead styphnate*	15245-44-0	239-290-0	ND	0.005
100	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	ND	0.005
101	Lead tetroxide (orange lead)*	1314-41-6	215-235-6	NA^	0.005
102	Lead titanium trioxide*	12060-00-3	235-038-9	ND	0.005
103	Lead titanium zirconium oxide*	12626-81-2	235-727-4	ND	0.005
104	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	ND	0.005
105	Methoxyacetic acid	625-45-6	210-894-6	ND	0.050
106	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	ND	0.050
107	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	ND	0.050
108	N,N-dimethylacetamide	127-19-5	204-826-4	ND	0.050
109	N,N-Dimethylformamide	68-12-2	200-679-5	ND	0.050
110	N-Methylacetamide	79-16-3	201-182-6	ND	0.050
111	N-Pentyl-isopentylphthalate	776297-69-9	-	ND	0.050
112	4-Nonylphenol, branched and linear, ethoxylated	-	-	ND	0.050
113	o-Aminoazotoluene	97-56-3	202-591-2	ND	0.050

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NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
114	o-Toluidine	95-53-4	202-429-0	ND	0.050
115	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	ND	0.050
116	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	NA^	0.005
117	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	ND	0.005
118	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	ND	0.050
119	Phenolphthalein	77-09-8	201-004-7	ND	0.050
120	Pitch, coal tar, high temp.*	65996-93-2	266-028-2	ND	0.050
121	Potassium chromate*	7789-00-6	232-140-5	ND	0.005
122	Potassium dichromate*	7778-50-9	231-906-6	ND	0.005
123	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	ND	0.005
124	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	NA^	0.005
125	Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	ND	0.005
126	Silicic acid, lead salt*	11120-22-2	234-363-3	ND	0.005
127	Sodium chromate*	7775-11-3	231-889-5	ND	0.005
128	Sodium dichromate*	7789-12-0	234-190-3	ND	0.005
		10588-01-9			
129	Strontium chromate*	7789-06-2	232-142-6	ND	0.005
130	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	NA^	0.005
131	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	ND	0.005
132	Tetraethyllead*	78-00-2	201-075-4	ND	0.005
133	Tetralead trioxide sulphate*	12202-17-4	235-380-9	NA^	0.005

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NO.	Substance Name	CAS No.	EC No.	001 Concentration (%)	RL (%)
134	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	ND	0.050
135	Trichloroethylene	79-01-6	201-167-4	ND	0.050
136	Tricosafuorododecanoic acid	307-55-1	206-203-2	ND	0.050
137	Triethyl arsenate*	15606-95-8	427-700-2	ND	0.005
138	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	215-290-6	NA^	0.005
139	Trilead diarsenate*	3687-31-8	222-979-5	ND	0.005
140	Trilead dioxide phosphonate*	12141-20-7	235-252-2	NA^	0.005
141	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	ND	0.050
142	Zirconia Aluminosilicate Refractory Ceramic Fibres *▲	650-017-00-8 (Index no.)	-	ND	0.005
143	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)§	6786-83-0	229-851-8	ND	0.050
144	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	ND	0.050

Notes :

- (1) RL = Reporting Limit. All RL are based on homogenous material
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (2) ▲CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
☆CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- (3) * The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website: www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm

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Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.

RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025 % (only for Lead bis (tetrafluoroborate)).

- (4) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) $\geq 0.1\%$ (w/w).
- (5) ▲ On Jun 18, 2012, ECHA consolidated two entries of aluminosilicate refractory ceramic fibres and two of zirconia aluminosilicate refractory ceramic fibres in the Candidate List of SVHC for authorization published in Jan 2010 and Dec 2011 into one entry for aluminosilicate refractory ceramic fibres and one for zirconia aluminosilicate refractory ceramic fibres.
- (6) NA^ = Upon further test verification on the specific detected element(s) of SVHC and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even though their presence cannot be exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.

深圳市乾盛达科技有限公司

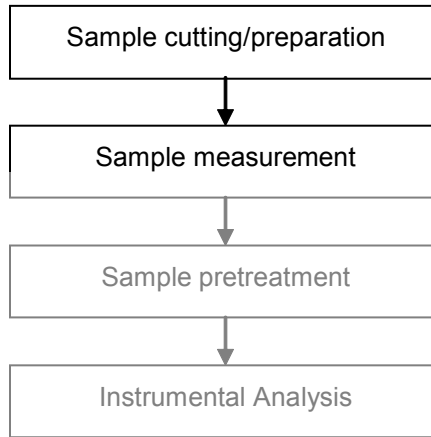
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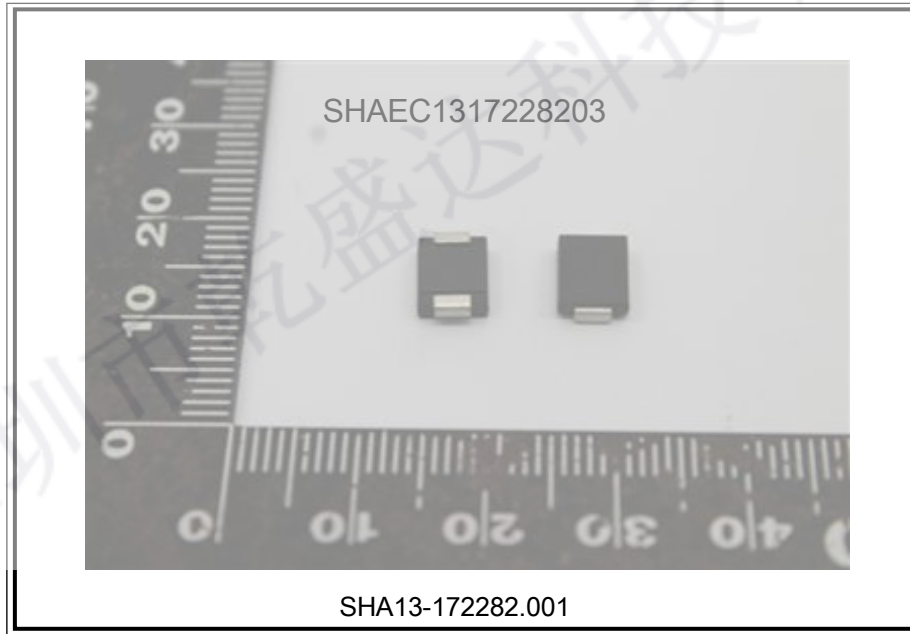
ATTACHMENTS

SVHC Testing Flow Chart

- 1) Name of the person who made testing: Anne Huang / Brin Feng
- 2) Name of the person in charge of testing: Chaven Lian



Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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