







Report No. A223014351810101 Page 1 of 15

Company Name SUNTAN TECHNOLOGY COMPANY LIMITED

shown on Report

Address UNIT H, 4/F., DORMIND INDUSTRIAL BUILDING, 13 YIP FUNG STREET,

FANLING, N.T., HONG KONG

The following sample(s) and sample information was/were submitted and identified by/on the behalf of

the applicant

CTI Comple ID	Final Draduat Nama	Comple Nama(a)		
CTI Sample ID	Final Product Name	Sample Name(s)		
001		lead wire		
002		Cathode foil(+)		
003		Cathode foil(-)		
004		Brown paper with liquid		
005	V.Cl.: Al. :	electrolyte		
006		Black rubber		
007	V-Chip Aluminum Electrolytic Capacitor	Silvery case		
008	Electrorytic Capacitor	Black platform		
009		Carrier Tape		
010		ultra-violet curing printing ink		
011		vinol		
012		pressure sensitive tape		
013		V-Chip Aluminum Electrolytic Capacitor		

Sample Received Date Apr. 4, 2023

Testing Period Apr. 4, 2023 to Apr. 8, 2023

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg),

Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs),

Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I) in the submitted

sample(s).

Test Method/Test Result(s) Please refer to the following page(s).

Hill Zheng

Technical Manager

No. R158921442

Oct. 16, 2023

Centre Testing International Group Co., Ltd.

The Building, Wing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Date



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Test Method

Tested Item(s)	Test Method	Measured Equipment(s)	
Lead (Pb)	IEC 62321-5:2013	ICP-OES	
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES	
	IEC 62321-7-1:2015	UV-Vis	
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of	UV-Vis/ICP-OES	
	Total Chromium by IEC 62321-5:2013	U V- VIS/ICP-UES	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	
Polybrominated Diphenyl Ethers	IEC 62321-6:2015	GC-MS	
(PBDEs)	IEC 02321-0.2013	GC-MS	
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	
Fluorine (F)	Refer to EN 14582:2016	IC	
Chlorine (Cl)	Refer to EN 14582:2016	IC	
Bromine (Br)	Refer to EN 14582:2016	IC	
Iodine (I)	Refer to EN 14582:2016	IC	

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Test Result(s)

Tested Item(s)	Result			MDL
Tested Item(s)	001	002	003	MIDL
Lead (Pb)	N.D.	N.D.	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Havayalant Chaamiyan (Cr(VI))				8 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. [▼]	N.D. [▼]	N.D. [▼]	0.10 μg/cm ² (LOQ)

Tested Item(s)	Result			MDL
rested item(s)	004	005	006	MIDL
Lead (Pb)	N.D.	N.D.	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.	8 mg/kg
				0.10 μg/cm ² (LOQ)

Tested Item(s)	Result			MDL
resteu riem(s)	007	008	009	WIDL
Lead (Pb)	N.D.	N.D.	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))		N.D.	N.D.	8 mg/kg
	N.D. [▼]			0.10 μg/cm ² (LOQ)

Tested Item(s)	Result			MDL
rested tem(s)	010	011	012	WIDL
Lead (Pb)	N.D.	N.D.	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	2 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	2 mg/kg
Harmondon's Characteristic (Ca(VII))	N.D.	N.D.	N.D.	8 mg/kg
Hexavalent Chromium (Cr(VI))				0.10 μg/cm ² (LOQ)



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Tested Item(s)	Result			MDL
Tested Item(s)	004	005	006	WIDL
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg

Tested Item(s)	Result	MDL
Tested Item(s)	007	MIDL
Polybrominated Biphenyls (PBBs)*		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg



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Tested Item(s)	Result			MDL
rested item(s)	008	009	010	WIDL
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	N.D.	N.D.	5 mg/kg

Tosted Item(s)	Re	Result		
Tested Item(s)	011	012	MDL	
Polybrominated Biphenyls (PB	Bs)			
Monobromobiphenyl	N.D.	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	N.D.	5 mg/kg	
Hexabromobiphenyl	N.D.	N.D.	5 mg/kg	
Heptabromobiphenyl	N.D.	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	N.D.	5 mg/kg	



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Tested Item(s)	Result			MDL
rested item(s)	004	005	006	WIDL
Polybrominated Diphenyl Ethers	(PBDEs)			
Monobromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg

Tooted Item(e)	Result	MDL
Tested Item(s)	007	MIDL
Polybrominated Diphenyl Ethers (PB	DEs)*	
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



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Tested Item(s)	Result			MDL	
Tested Item(s)	008	009	010	MIDL	
Polybrominated Diphenyl Ethers	Polybrominated Diphenyl Ethers (PBDEs)				
Monobromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
Dibromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	N.D.	N.D.	5 mg/kg	

Tested Item(s)	R	esult	MDL
resteu rtem(s)	011	012	WIDL
Polybrominated Diphenyl Ethe	rs (PBDEs)		
Monobromodiphenyl ether	N.D.	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	N.D.	5 mg/kg



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Tested Item(s)	Result			MDL	
rested tem(s)	004	005	006	WIDL	
Phthalates (DBP, BBP, DEHP, DI	Phthalates (DBP, BBP, DEHP, DIBP)				
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	50 mg/kg	
CAS#:84-74-2	N.D.	N.D. N.D.	N.D.	50 mg/kg	
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	50 mg/kg	
CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg	
Di-(2-ethylhexyl) phthalate	N.D.	N.D.	N.D.	50 mg/kg	
(DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	50 mg/kg	
Diisobutyl phthalate (DIBP)	ND	N.D.	N.D.	50 mg/lrg	
CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg	

Tested Item(s)	Result	MDL		
Tested Item(s)	007	WIDL		
Phthalates (DBP, BBP, DEHP, DI	Phthalates (DBP, BBP, DEHP, DIBP)*			
Dibutyl phthalate (DBP)	N.D.	50 mg/kg		
CAS#:84-74-2	N.D.	50 mg/kg		
Butyl benzyl phthalate (BBP)	N.D.	50 mg/kg		
CAS#:85-68-7	N.D.	50 mg/kg		
Di-(2-ethylhexyl) phthalate	N.D.	50 mg/kg		
(DEHP) CAS#:117-81-7	N.D.	50 mg/kg		
Diisobutyl phthalate (DIBP)	N.D.	50 mg/kg		
CAS#:84-69-5	IN.D.	50 mg/kg		

Tested Item(s)		Result	MDL	
	008	009	010	WIDL
Phthalates (DBP, BBP, DEHP, D	OIBP)			
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	50 mg/kg
CAS#:84-74-2	N.D.	N.D.	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	50 mg/kg
CAS#:85-68-7	N.D.	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate	N.D.	N.D.	N.D.	50 mg/kg
(DEHP) CAS#:117-81-7	N.D.	N.D.	N.D.	JO Hig/Kg
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	50 mg/kg
CAS#:84-69-5	N.D.	N.D.	N.D.	50 mg/kg



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Tested Item(s)	Re	MDL	
	011	012	WIDL
Phthalates (DBP, BBP, DEHP, DI	BP)		
Dibutyl phthalate (DBP)	N.D.	N.D.	50 mg/kg
CAS#:84-74-2	N.D.	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP)	N.D.	N.D.	50 mg/kg
CAS#:85-68-7	N.D.	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate	N.D.	N.D.	50 mg/kg
(DEHP) CAS#:117-81-7	N.D.	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP)	N.D.	N.D.	50 mg/kg
CAS#:84-69-5	N.D.	IN.D.	50 mg/kg

Tested Item(s)	Result	MDL	
	013		
Fluorine (F)	N.D.	10 mg/kg	
Chlorine (Cl)	N.D.	10 mg/kg	
Bromine (Br)	N.D.	10 mg/kg	
Iodine (I)	N.D.	10 mg/kg	

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Mixed test, metal with coloured covering layer and metal with silvery plating*1
2	002	Grey metal foil
3	003	Silver-grey metal foil
4	004	Beige paper
5	005	Light yellow liquid
6	006	Black rubber
7	007	Silver-white metal
8	008	Black plastic
9	009	Transparent plastic
10	010	Black ink(dry weight) *2
11	011	Transparent liquid
12	012	Tawny adhesive tape
13	013	Mixed test, all parts*1



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Remark: -The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

- -*1As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.
- -*2The sample was tested after drying with UV lamp.
- -MDL = Method Detection Limit
- -N.D. = Not Detected (<MDL or LOQ)
- -mg/kg = ppm = parts per million
- -LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
- -▼The sample is negative for Cr(VI) The Cr(VI) concentration is below 0.10 μg/cm². The coating is considered a non-Cr(VI) based coating.
- -According to the client's statement, the Company Name shown on Report in this report and the Company Name shown on Report in the report A2230143518101 are the buyer- manufacturer relations, the test result(s) of this report is/are presented in reference to the result(s) that reported in A2230143518101.

Note: -*Indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.

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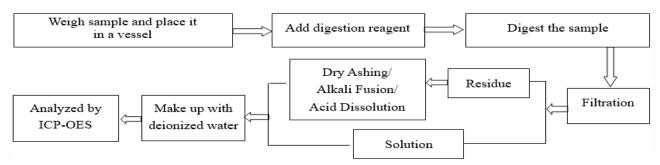


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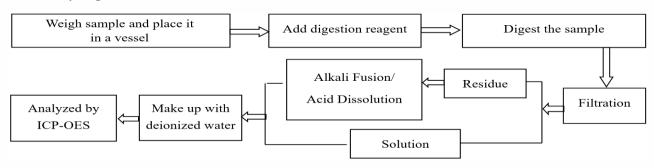
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Test Process

1. Cadmium (Cd), Lead (Pb), Chromium(Cr)

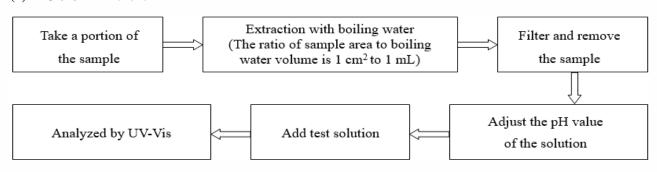


2. Mercury (Hg)

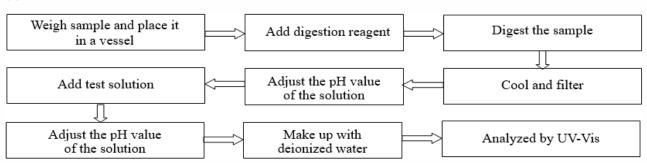


3. Hexavalent Chromium (Cr(VI))

(1) IEC 62321-7-1:2015



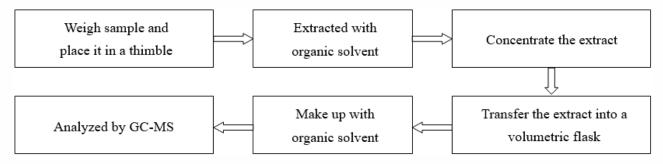
(2) IEC 62321-7-2:2017



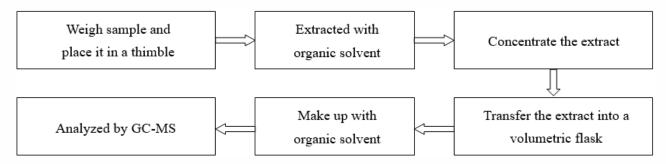


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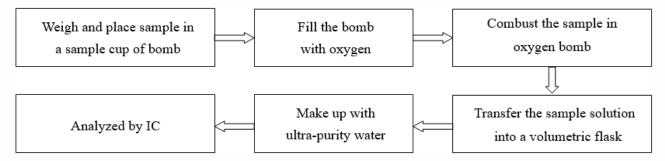
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. Phthalates (DBP, BBP, DEHP, DIBP)



6. Bromine (Br), Chlorine (Cl), Fluorine (F), Iodine (I)



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Photo(s) of the sample(s)

Final Product

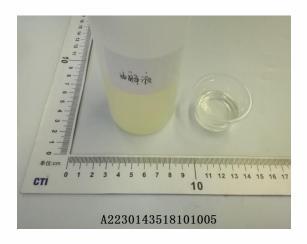














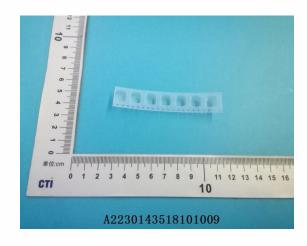
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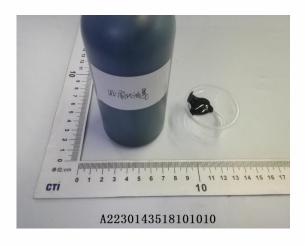
















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Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of Report ***