



ROHS TEST REPORT

IEC 62321

Equipment under Test : Mirror front lamp
Trade Name : N/A
Model /Type : A50
Listed Models : A20,A30,A40,A60,A70,A80,A90,A100,A110,A120,A130,
A140,A150, A160,A170,A180,A190,A200,A210

Applicant : Shenzhen sanluo Electronic Technology Co., Ltd
Address : 2 / F, building C, No. 236 Fumin Road, Longxi community,
Longgang street, Longgang District, Shenzhen
Manufacturer : Shenzhen sanluo Electronic Technology Co., Ltd
Address : 2 / F, building C, No. 236 Fumin Road, Longxi community,
Longgang street, Longgang District, Shenzhen

Laboratory : Shenzhen Yacetong Testing Technology Services Co., Ltd.
Address : Room 310, No.12, Tongfu Industrial Zone, Xinhe Community,
Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China
Tel : +(86)- 0755-23728760
Fax : +(86)- 0755-23728760
Website : www.yctlab.com

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Test Result:	PASS
--------------	------





TEST REPORT

Applicant's name..... Shenzhen sanluo Electronic Technology Co., Ltd
Address..... 2 / F, building C, No. 236 Fumin Road, Longxi community,
Longgang street, Longgang District, Shenzhen

Report on the submitted sample said to be

Sample name..... Mirror front lamp

Test model A50

Date of Issue..... June 21, 2024

Test Result:

Conclusion:

- 1) As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr6+), Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs) content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment Annex II directive 2015/863/EU. **PASS**
- 2) As specified by client, to determine HBCDD content in the submitted samples in accordance with ROHS. **PASS**
- 3) As specified by client, to determine the DEHP、DBP、BBP content in the submitted sample in accordance PASS with Regulation (EU) No 552/2009. **PASS**
- 4) As specified by client, to determine the Beryllium content in the submitted sample. **/**

Test Method:

(1): With reference to EN IEC 63000-2018 Electrotechnical products - Determination of levels of ten regulated substances

Test Item	Pretreatment Method	Measuring Instrument	MDL
Lead	IEC 62321-5:2013	ICP-OES	2 mg/kg
Cadmium	IEC 62321-5:2013	ICP-OES	2 mg/kg
Mercury	IEC 62321-4:2013	ICP-OES	2 mg/kg
Hexavalent Chromium	IEC 62321-7-1:2015 IEC 62321-7-1:2015	UV-VIS UV-VIS and	2 mg/kg
Polybrominated Biphenyls/ Polybrominated Diphenyl Ethers	IEC 62321-6:2015	GC-MS	5 mg/kg
Polybrominated Biphenyl Ethers	IEC 62321-6:2015	GC-MS	5 mg/kg
Phthalates test method	IEC 62321-8:2017	GC-MS	5 mg/kg

2), (3):

Test Item	Pretreatment Method	Measuring Instrument	MDL
HBCDD	US EPA 3540C:1996	GC-MS	10 mg/kg
DEHP、DBP、BBP	EN 14372:2004	GC-MS	30 mg/kg

(4)

Test Item	Pretreatment Method	Measuring Instrument	MDL
Beryllium(Be)	US EPA 3052:1996, US EPA 6010C:2007	ICP-OES	10 mg/kg

Tested by: Luis Zhao
Luis Zhao
Project Leader

Reviewed by: J. Steven
V. Steven
Laboratory Supervisor

Approved by: Charlie Deng
Charlie Deng
Technical Director





Table of Contents

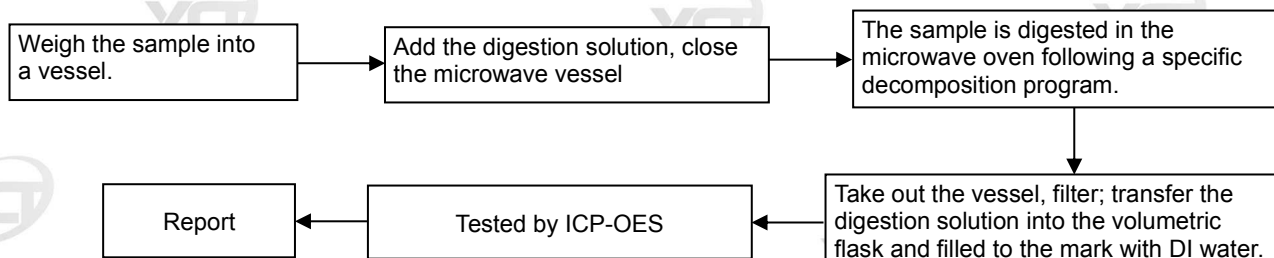
Page

1. . TEST FLOW	4
1.1 To Determine Lead, Cadmium Content	4
1.2 To Determine Mercury Content	4
2. . TEST RESULTS	6
2.1. CONSOLIDATED TEST REPORT	6
2.2. Photo of the Submitted Sample	11

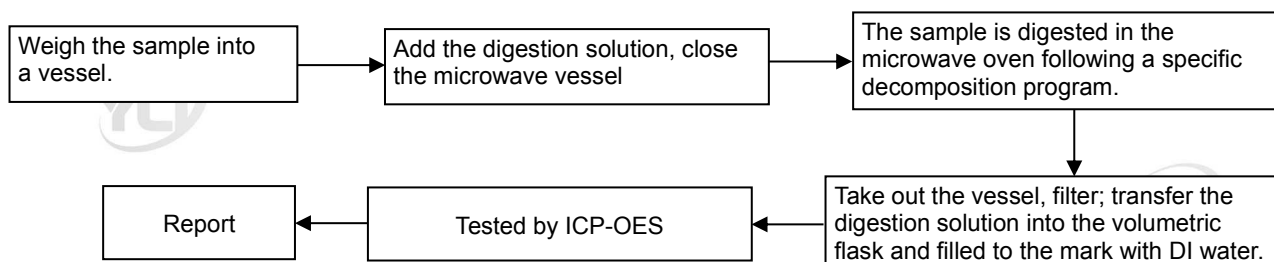


1. TEST FLOW

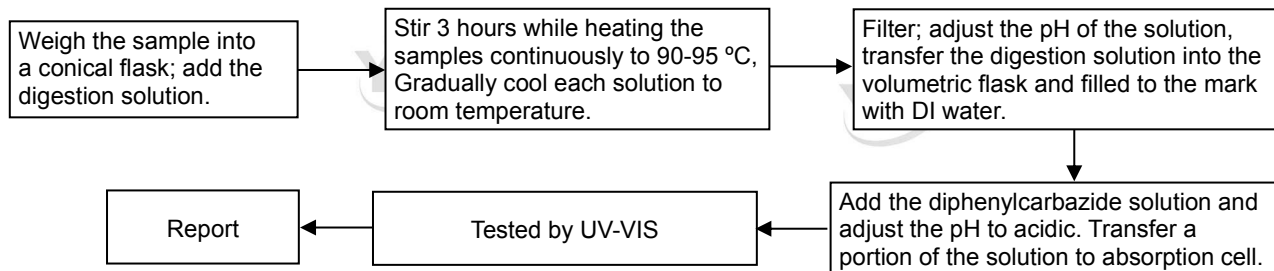
1.1 To Determine Lead, Cadmium Content



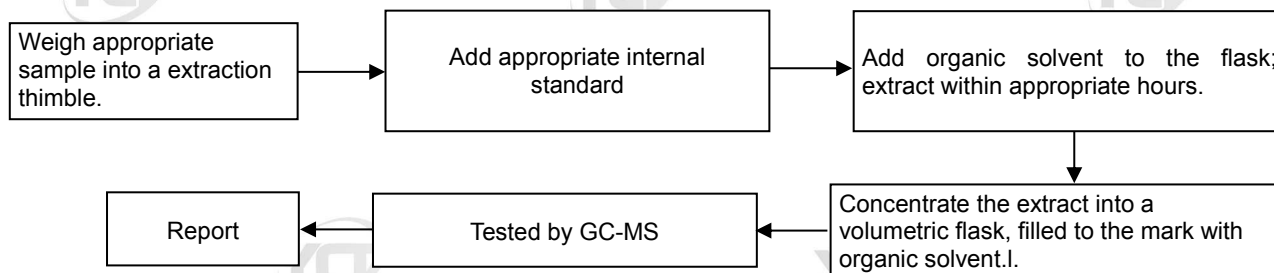
1.2 To Determine Mercury Content



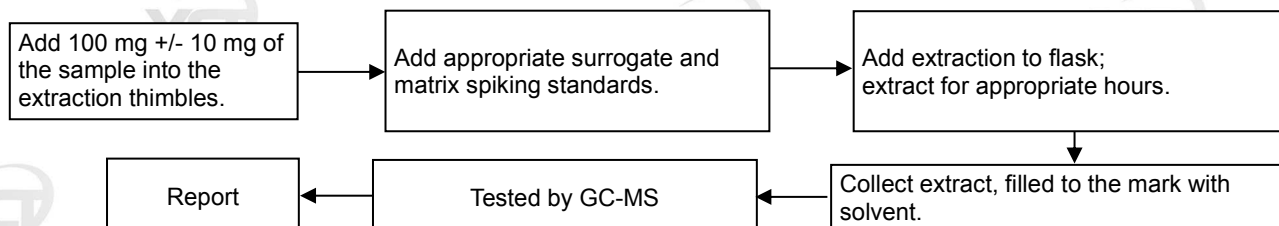
1.3 To Determine Hexavalent Chromium Content



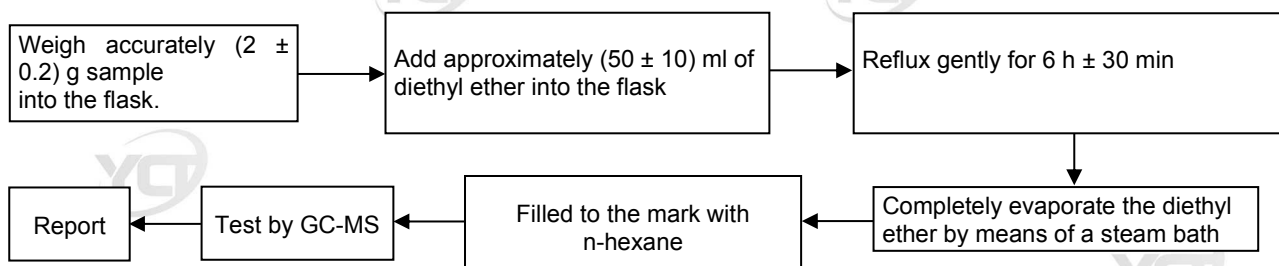
1.4 To Determine Polybrominated Biphenyls/Polybrominated Diphenyl Ethers Content



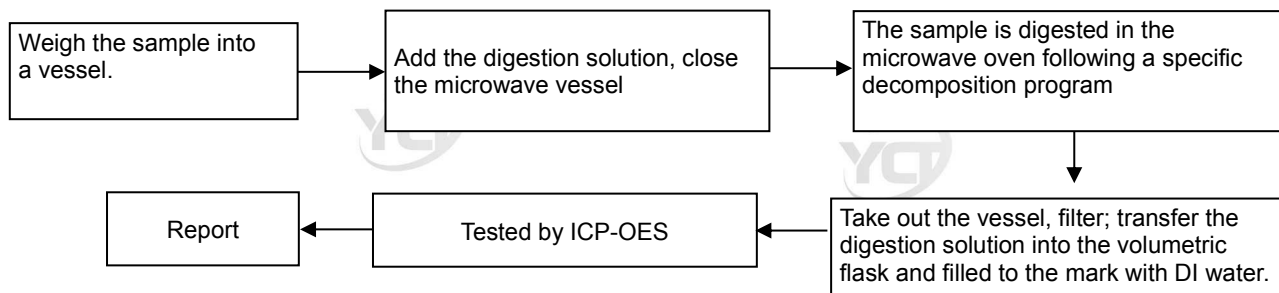
1.5 To Determine HBCDD Content



1.6 To Determine DEHP 、DBP 、BBP content



1.7 To Determine Beryllium content





2. TEST RESULTS

2.1 CONSOLIDATED TEST REPORT

No.	Component	Issue Body	Report No.& Issue Date	Test Data(PPM)
1	White plastic	SGS	CANML2308279841 2023/08/27	Cd:N.D Pb:N.D Hg:N.D Cr6+:N.D PBBS:N.D PBDES:N.D DBP: N.D BBP: N.D DEHP: N.D DIBP: N.D
2	lampshade	SGS	SZXEC2312246527 2023/12/24	Cd:N.D Pb:N.D Hg:N.D Cr6+:N.D PBBS:N.D PBDES:N.D DBP: N.D BBP: N.D DEHP: N.D DIBP: N.D
3	Wire rod	SGS	SZXEC2304096257 2023/04/09	Cd:N.D Pb:N.D Hg:N.D Cr6+:N.D PBBS:N.D PBDES:N.D DBP: N.D BBP: N.D DEHP: N.D DIBP: N.D
4	usb	SGS	SHAEC2305088652 2023/05/08	Cd:N.D Pb:8 Hg:N.D Cr6+:N.D PBBS:N.D PBDES:N.D DBP: N.D BBP: N.D DEHP: N.D DIBP: N.D





5	Lamp bead	SGS	SHAEC2212169657 2022/12/16	Cd:N.D Pb:N.D Hg:N.D Cr6+:N.D PBBS:N.D PBDES:N.D DBP: N.D BBP: N.D DEHP: N.D DIBP: N.D
6	pcb	SGS	CANEC2302248341 2023/02/24	Cd:N.D Pb:N.D Hg:N.D Cr6+:N.D PBBS:N.D PBDES:N.D DBP: N.D BBP: N.D DEHP: N.D DIBP: N.D
7	Chip capacitance	SGS	SZXEC2310146841 2023/10/14	Cd:N.D Pb:N.D Hg:N.D Cr6+:N.D PBBS:N.D PBDES:N.D DBP: N.D BBP: N.D DEHP: N.D DIBP: N.D
8	Patch resistance	SGS	CANML2301122186 2023/01/12	Cd:N.D Pb:N.D Hg:N.D Cr6+:N.D PBBS:N.D PBDES:N.D DBP: N.D BBP: N.D DEHP: N.D DIBP: N.D
9	IC	SGS	CANML2212078547 2022/12/07	Cd:N.D Pb:N.D Hg:N.D Cr6+:N.D PBBS:N.D PBDES:N.D DBP: N.D BBP: N.D DEHP: N.D DIBP: N.D





10	transformer	SGS	CANML2302154234 2023/02/15	Cd:N.D Pb:N.D Hg:N.D Cr6+:N.D PBBS:N.D PBDES:N.D DBP: N.D BBP: N.D DEHP: N.D DIBP: N.D
11	key	SGS	CANML2212246793 2022/12/24	Cd:N.D Pb:N.D Hg:N.D Cr6+:N.D PBBS:N.D PBDES:N.D DBP: N.D BBP: N.D DEHP: N.D DIBP: N.D
12	tin	SGS	CANML2304186421 2023/04/18	Cd:N.D Pb:N.D Hg:N.D Cr6+:N.D PBBS:N.D PBDES:N.D DBP: N.D BBP: N.D DEHP: N.D DIBP: N.D





Note / key:

Remark:

BL = Below limit

OL = Over limit

ND = Not detected

">" = Greater than

IN = Inconclusive

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

% = percent

10000 mg/kg = 1 % Detection

Limit (mg/kg): See Appendix 1.

- The result(s) of chromium refer(s) to chromium VI (Cr VI) and the result(s) of bromine refer(s) to polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs).
- Result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- When the result(s) is (are) marginal, it is recommended to further perform related wet chemistry method for confirmation. See interpretation of result(s) in Appendix.
- Only selected example(s) is (are) indicated on the photograph(s) in Comment





List of Analytes and their Corresponding Detection Limit and Maximum Allowable Limit [Preliminary Screening Assessment for European Council Directive 2011/65/EU] :					
No.	Name of Analytes	Detection Limit (mg/kg)			Maximum Allowable Limit (mg/kg)
		Plastic	Metallic / glass / ceramic	Others	
1	Lead (Pb)	100	200	200	1000
2	Cadmium (Cd)	50	50	50	100
3	Mercury (Hg)	100	200	200	1000
4	Chromium (Cr)	100	200	200	NA
5	Chromium VI (Cr VI)	NA	NA	NA	1000
6	Bromine (Br)	200	NA	200	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Sum 1000
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Sum 1000
NA = Not applicable					

Interpretation of Result(s) [Preliminary Screening Assessment for European Council Directive 2011/65/EU] :			
Element	Non-metal	Metal	Composite material
Lead (Pb)	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X < (1500 + 3\sigma) \leq OL$
Cadmium (Cd)	$BL \leq (70 - 3\sigma) < X < (130 + 3\sigma) \leq OL$	$BL \leq (70 - 3\sigma) < X < (130 + 3\sigma) \leq OL$	$BL < X < (150 + 3\sigma) \leq OL$
Mercury (Hg)	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X < (1500 + 3\sigma) \leq OL$
Chromium (Cr)	$BL \leq (700 - 3\sigma) < X$	$BL \leq (700 - 3\sigma) < X$	$BL \leq (500 - 3\sigma) < X$
Bromine (Br)	$BL \leq (300 - 3\sigma) < X$	-	$BL \leq (250 - 3\sigma) < X$
X = Region considers as marginal result 3σ = Repeatability of XRF analyser at action level			



2.2. Photo of the Submitted Sample









.....End of Report.....