



Test Report

Date: December 20, 2022

Report No.: STE22121617R

Applicant .....: Shenzhen Gaoxianse Photoelectric Co., Ltd.

Address .....: 3/F, No. 28, North District, Xinhe Industrial Park, FuHai Town, Bao'an District, Shenzhen, China

Manufacturer : Shenzhen Gaoxianse Photoelectric Co., Ltd.

Address .....: 3/F, No. 28, North District, Xinhe Industrial Park, FuHai Town, Bao'an District, Shenzhen, China

The following sample(s) was/were submitted and identified on behalf of the clients as : Camping lamp Model No. : GXS-ZC5V2M-COB

Client Ref. Info.: Client declares that the same material as above model are: GXS-ZC5V1M-COB, GXS-ZC5V3M-COB, GXS-ZC5V4M-COB, GXS-ZC5V5M-COB, GXS-ZC12V2M-COB, GXS-ZC12V1M-COB, GXS-ZC12V3M-COB, GXS-ZC12V4M-COB, GXS-ZC12V5M-COB

Trade mark: Gosens

Date of Sample Received .....: November 18, 2022

Testing Period .....: November 18, 2022 - December 20, 2022

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).

Conclusion .....: Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), DEHP, BBP, DBP, DIBP comply with the limits as set by RoHS Directive (EU)2017/2102, (EU)2015/863 and 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of Shenzhen STE Testing Laboratory Co., Ltd.

Written By: Todd Qian Todd Qian

Approved by: Fly Li (with circular stamp: STE TESTING LABORATORY APPROVED)

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**Restriction of Hazardous Substances Directive (RoHS), (EU)2017/2102, (EU) 2015/863 & 2011/65/EU**

List of Analytes and their Corresponding Test Methods [ European Council Directive (EU) 2015/863 & 2011/65/EU ] :

Name of Analytes		Test Method(s)
<b>Pb</b>	Lead (Pb)	With reference to EN 62321-5: 2014; by ICP-OES.
<b>Cd</b>	Cadmium (Cd)	
<b>Hg</b>	Mercury (Hg)	With reference to EN 62321-4: 2014+ A1: 2017; by ICP-OES.
<b>Cr<sup>6+</sup></b>	Chromium VI (Cr VI)	<u>Metal</u> : With reference to EN 62321-7-1: 2015. <u>Polymers &amp; Electronics</u> : With reference to EN 62321-7-2: 2017. using UV-Vis.
<b>PBBs</b>	Polybrominated Biphenyls (Sum of PBBs)	With reference to EN 62321-6: 2015, by GC-MS.
	Bromobiphenyls	
	Dibromobiphenyls	
	Tribromobiphenyls	
	Tetrabromobiphenyls	
	Pentabromobiphenyls	
	Hexabromobiphenyls	
	Heptabromobiphenyls	
	Octabromobiphenyls	
	Nonabromobiphenyls	
	Decabromobiphenyl	
<b>PBDEs</b>	Polybrominated Diphenyl Ethers (Sum of PBDEs)	With reference to EN 62321-6: 2015, by GC-MS.
	Bromodiphenyl ethers	
	Dibromodiphenyl ethers	
	Tribromodiphenyl ethers	
	Tetrabromodiphenyl ethers	
	Pentabromodiphenyl ethers	
	Hexabromodiphenyl ethers	
	Heptabromodiphenyl ethers	
	Octabromodiphenyl ethers	
	Nonabromodiphenyl ethers	
	Decabromodiphenyl ether	

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List of Analytes and their Corresponding Test Methods [ European Council Directive (EU) 2015/863 & 2011/65/EU ] :

Name of Analytes		Test Method(s)
<b>Phthalate</b>	Bis-(2-ethylhexyl) Phthalate ( <b>DEHP</b> )	With reference to EN 62321-8: 2017. by GC-MS
	Benzylbutyl Phthalate ( <b>BBP</b> )	
	Dibutyl Phthalate ( <b>DBP</b> )	
	Diisobutyl phthalate ( <b>DIBP</b> )	

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TEST RESULT

No.	TEST ITEMS		Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Hexavalent Chromium (Cr <sup>6+</sup> )	PBBs	PBDEs
	UNIT		ppm	ppm	ppm	ppm	ppm	ppm
	Limit		1000	100	1000	1000	1000	1000
001	Enclosure	White plastic	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		Transparent plastic	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
002	Electric wires	Red PVC plastic	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		Black PVC plastic	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		Silvery metal wire	N.D.	N.D.	N.D.	N.D.	--	--
003	LED	Yellow body w/ silvery metal	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
004	SMD resistor	Black body w/ silvery metal	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
005	Button	White body w/ silvery metal	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
006	SMD inductance	Black body w/ silvery metal	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
007	SMD triode	Black body w/ silvery metal	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
008	IC	Black body w/ silvery metal	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
009	SMD resistor	Black body w/ silvery metal	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
010	USB plug	White plastic	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
		silvery metal	N.D.	N.D.	N.D.	N.D.	--	--
011	Tin	Silvery metal	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
012	PCB board	Green PCB board w/ copper metal	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

Notes :

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

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Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "---" = Not Regulated



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No.	TEST ITEMS		Bis-(2-ethylhexyl) Phthalate (DEHP)	Benzylbutyl Phthalate (BBP)	Dibutyl Phthalate (DBP)	Diisobutyl phthalate (DIBP)
	UNIT		ppm	ppm	ppm	ppm
	Limit		1000	1000	1000	1000
001	Enclosure	White plastic	N.D.	N.D.	N.D.	N.D.
		Champagne plastic	N.D.	N.D.	N.D.	N.D.
002	Electric wires	Red PVC plastic	N.D.	N.D.	N.D.	N.D.
		Black PVC plastic	N.D.	N.D.	N.D.	N.D.
		Silvery metal wire	--	--	--	--
003	LED	Yellow body w/ silvery metal	N.D.	N.D.	N.D.	N.D.
004	SMD resistor	Black body w/ silvery metal	N.D.	N.D.	N.D.	N.D.
005	Button	Black body w/ silvery metal	N.D.	N.D.	N.D.	N.D.
006	SMD inductance	Black body w/ silvery metal	N.D.	N.D.	N.D.	N.D.
007	SMD triode	Black body w/ silvery metal	N.D.	N.D.	N.D.	N.D.
008	IC	Black body w/ silvery metal	N.D.	N.D.	N.D.	N.D.
009	SMD resistor	Black body w/ silvery metal	N.D.	N.D.	N.D.	N.D.
010	USB plug	White plastic	N.D.	N.D.	N.D.	N.D.
		silvery metal	--	--	--	--
011	Tin	Silvery metal	--	--	--	--
012	PCB board	Green PCB board w/ coppery metal	N.D.	N.D.	N.D.	N.D.

Notes :

(1) The maximum permissible limit is quoted from the directive (EU) 2015/863, Annex II

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Remarks :

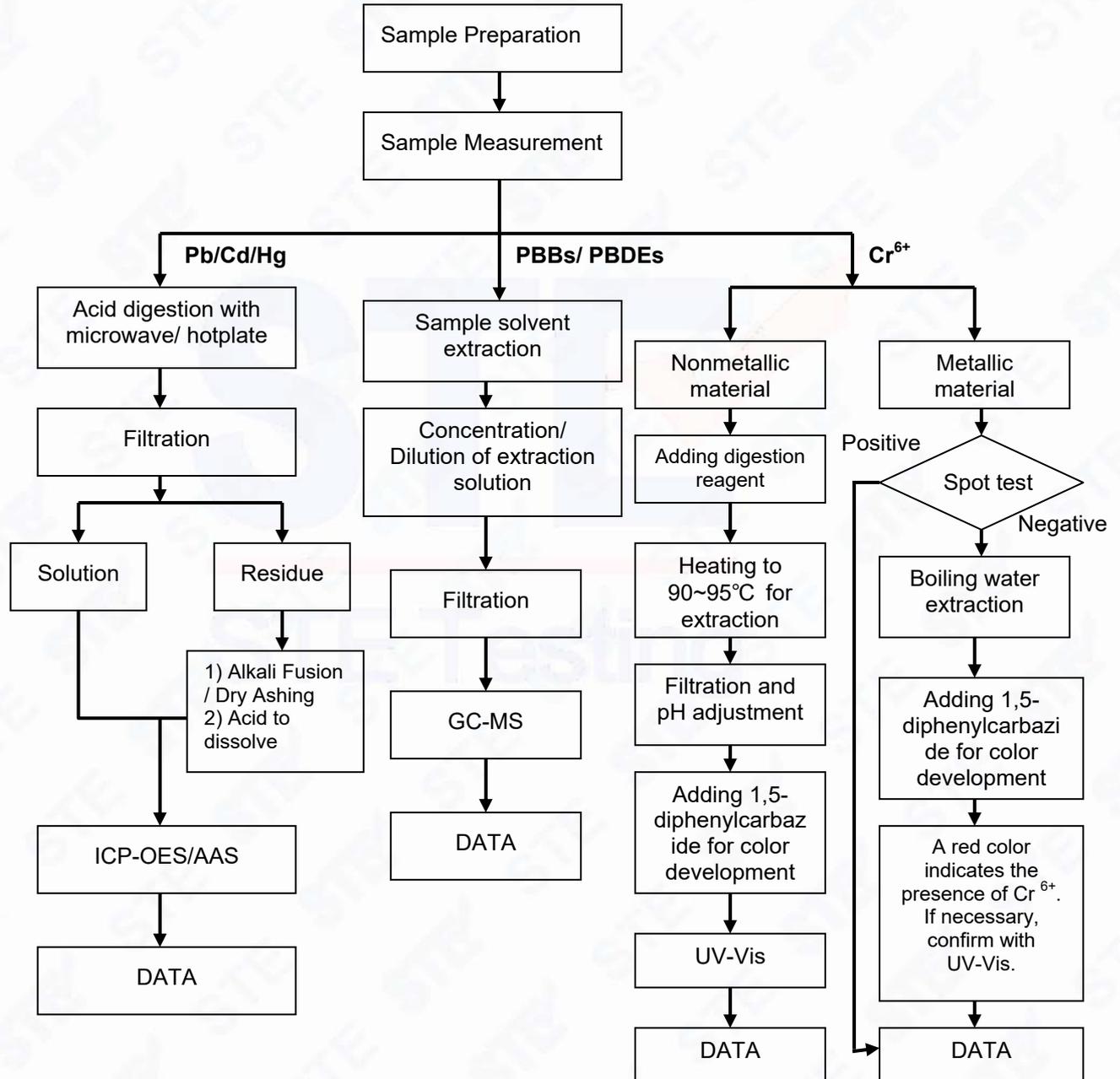
- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated



STE Testing

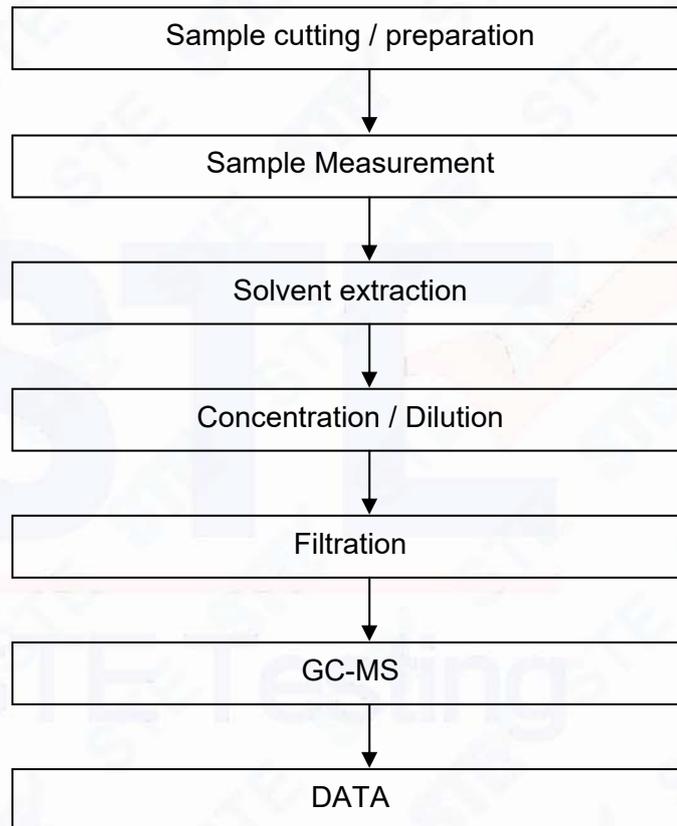
RoHS Testing Flow Chart

- 1) Name of the person who made testing: Hunter Liang
- 2) Name of the person in charge of testing: Todd Qian
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ and PBBs/ PBDEs test method excluded).



**Phthalates Testing Flow Chart**

- 1) Name of the person who made testing: Hunter Liang
- 2) Name of the person in charge of testing: Todd Qian



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**Sample Photos:**



Fig. 1



Fig. 2

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END OF REPORT  
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