



## Test Report

Report No. A2240828578101001R1

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**Company Name shown on Report** SHENZHEN EARLYSUN TECHNOLOGY CO., LTD.

**Address** NO. 6 BUILDING, TANGLANG INDUSTRY AREA A AREA, TAOYUAN SUBDISTRICT, NANSHAN DISTRICT, SHENZHEN CITY, GUANGDONG, P. R. CHINA

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

Sample Name solder paste  
Model No. ES-660  
Sample Received Date Jan. 2, 2025  
Testing Period Jan. 2, 2025 to Jan. 9, 2025

**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), Arsenic(As), Beryllium(Be), Antimony(Sb), Hexabromocyclododecane (HBCDD), Tetrabromobisphenol A (TBBP-A), Middle Chain Chlorinated Paraffins (MCCPs), Phthalates in the submitted sample(s).

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

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

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### Conclusion

Tested Sample	According to standard/directive	Result
Submitted Sample	RoHS Directive 2011/65/EU with amendment (EU) 2015/863	PASS

\*\*\*\*\*

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.



*Ophelie Wen*

Date

Jan. 14, 2025

Ophelie Wen

Lab Authorized Signatory

No. R812812120

Inspection & Testing International Group Co., Ltd.

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

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### Test Method

Test 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
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Arsenic(As)	Refer to US EPA 3050B:1996 & US EPA 6010D:2018	ICP-OES
Beryllium(Be)	Refer to US EPA 3050B:1996 & US EPA 6010D:2018	ICP-OES
Antimony(Sb)	Refer to US EPA 3050B:1996 & US EPA 6010D:2018	ICP-OES
Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS
Tetrabromobisphenol A (TBBP-A)	Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS
Middle Chain Chlorinated Paraffins (MCCPs)	Refer to US EPA 3540C:1996 & US EPA 8270E:2018	GC-MS(NCI)
Phthalates	Refer to EN 14372:2004(E)	GC-MS

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### Test Result(s)

Tested Item(s)	Result	MDL	Limit
	001		
Lead (Pb)	872895 mg/kg <sup>#1</sup>	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg
Tested Item(s)	Result	MDL	Limit
	001		
<b>Polybrominated Biphenyls (PBBs)</b>			
Monobromobiphenyl	N.D.	5 mg/kg	1000 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	
Tested Item(s)	Result	MDL	Limit
	001		
<b>Polybrominated Diphenyl Ethers (PBDEs)</b>			
Monobromodiphenyl ether	N.D.	5 mg/kg	1000 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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### Test Result(s)

Tested Item(s)	Result	MDL	Limit
	001		
<b>Phthalates (DBP, BBP, DEHP, DIBP)</b>			
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg
Tested Item(s)	Result	MDL	
	001		
Arsenic (As)	N.D.	10 mg/kg	
Beryllium (Be)	N.D.	2 mg/kg	
Antimony (Sb)	N.D.	5 mg/kg	
Tested Item(s)	Result	MDL	
	001		
Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg	
Tested Item(s)	Result	MDL	
	001		
Tetrabromobisphenol A (TBBP-A)	N.D.	5 mg/kg	
Tested Item(s)	Result	MDL	
	001		
Middle Chain Chlorinated Paraffins (MCCPs)	N.D.	100 mg/kg	
Tested Item(s)	Result	MDL	
	001		
<b>Phthalates</b>			
Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	30 mg/kg	
Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	50 mg/kg	
Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50 mg/kg	
Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0#	N.D.	30 mg/kg	
Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3#	N.D.	30 mg/kg	

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### Sample/Part Description

No.	CTI Sample ID	Description
1	001	Grey paste

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

-<sup>#1</sup>According to the client's statement, the material of the sample(s) fall into exemption items 7(a) according to EU Directive 2011/65/EU: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

**Note:** -This testing report revised "Sample Name" based on the original report of No. A2240828578101001. This testing report displaces the original one which was invalid since the date of this testing report released.

-"<sup>#</sup>" indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.

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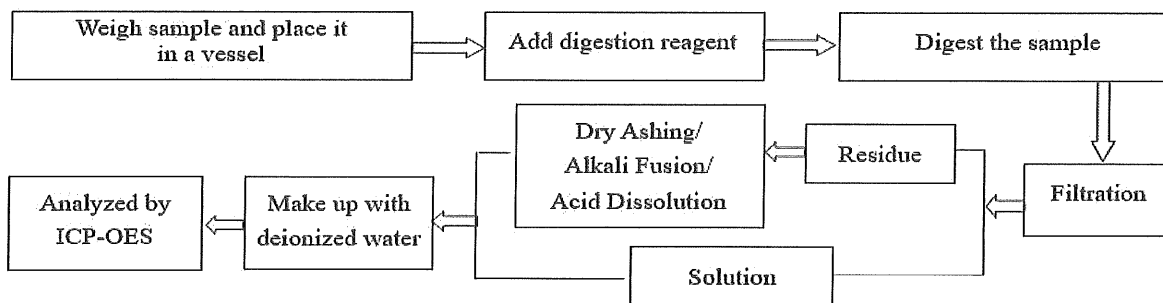
## Test Report

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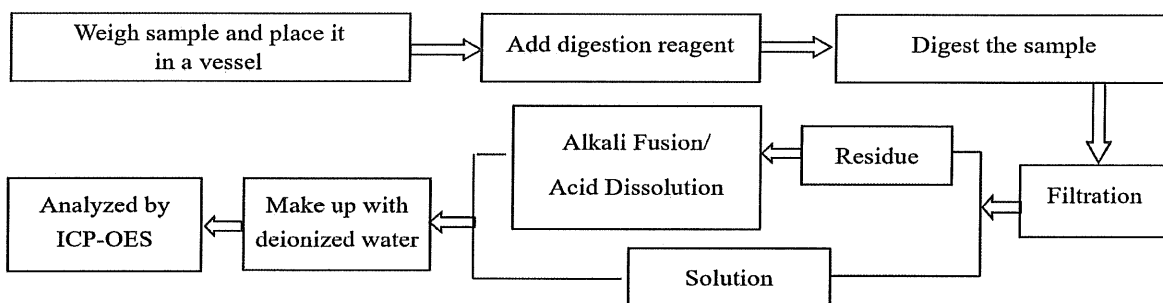
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### Test Process

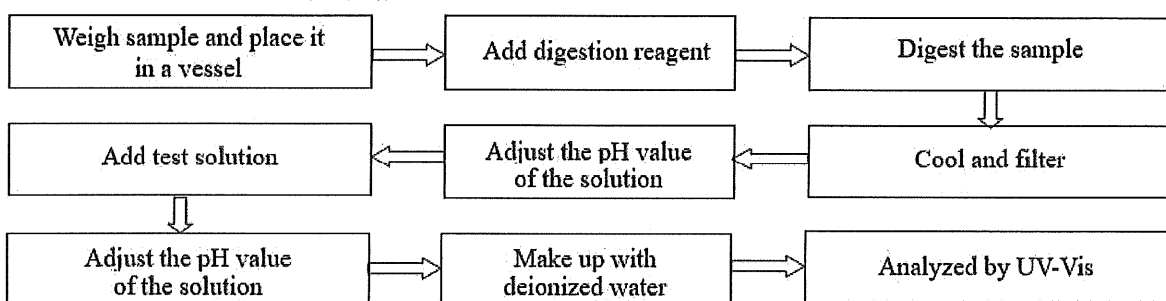
#### 1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



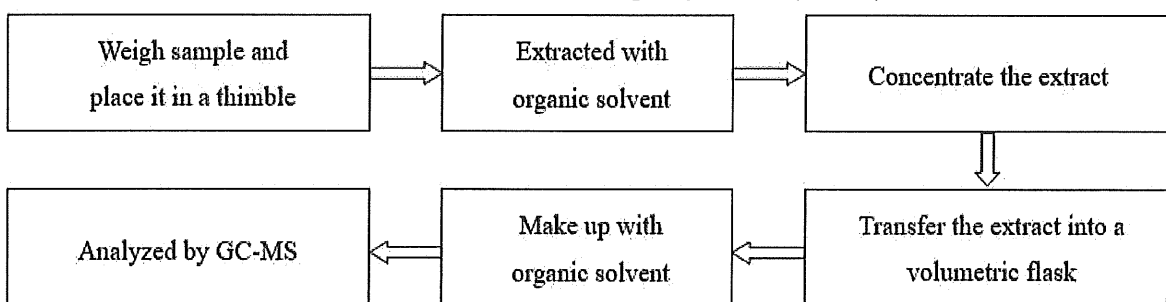
#### 2. Mercury (Hg)



#### 3. Hexavalent Chromium (Cr(VI))



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



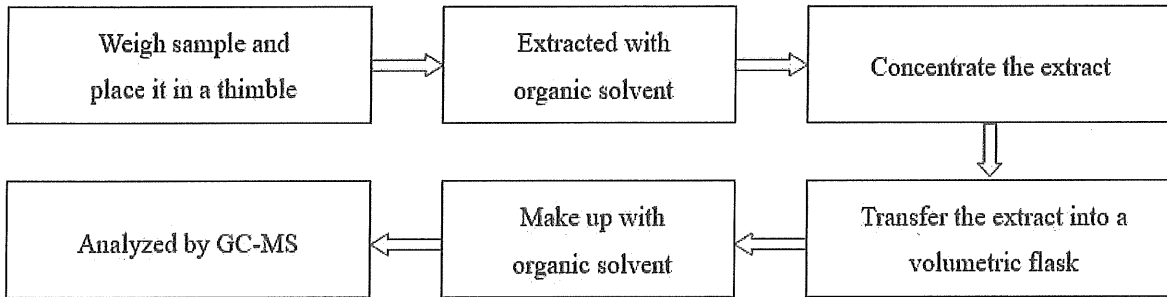
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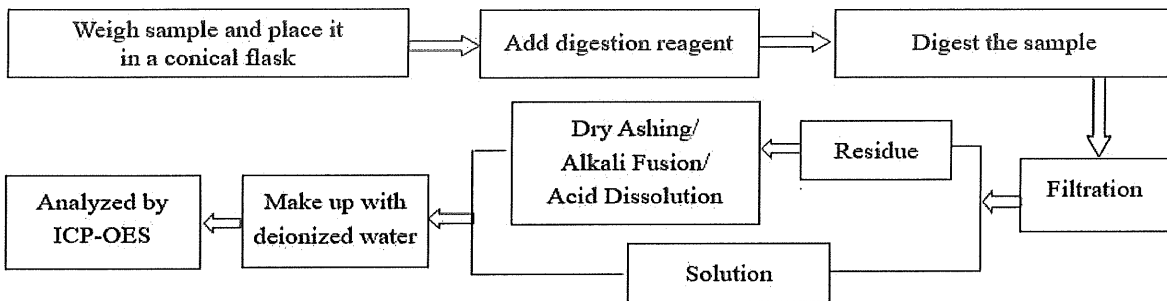
Report No. A2240828578101001R1

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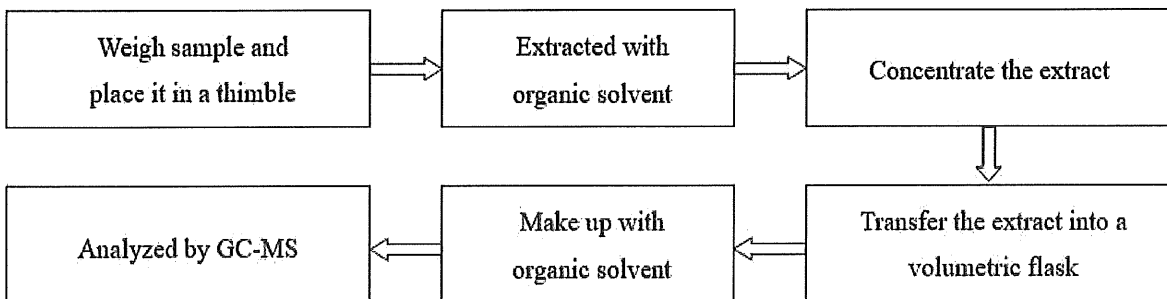
**5. Phthalates (DBP, BBP, DEHP, DIBP)**



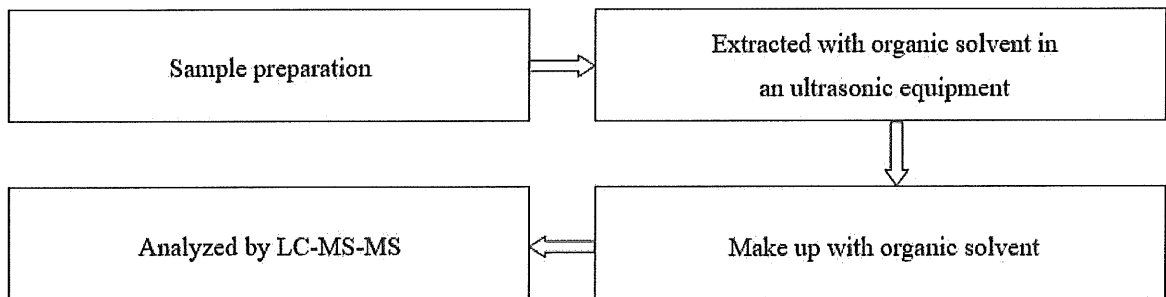
**6. Arsenic(As), Beryllium(Be), Antimony(Sb)**



**7. Hexabromocyclododecane (HBCDD)**



**8. Tetrabromobisphenol A (TBBP-A)**



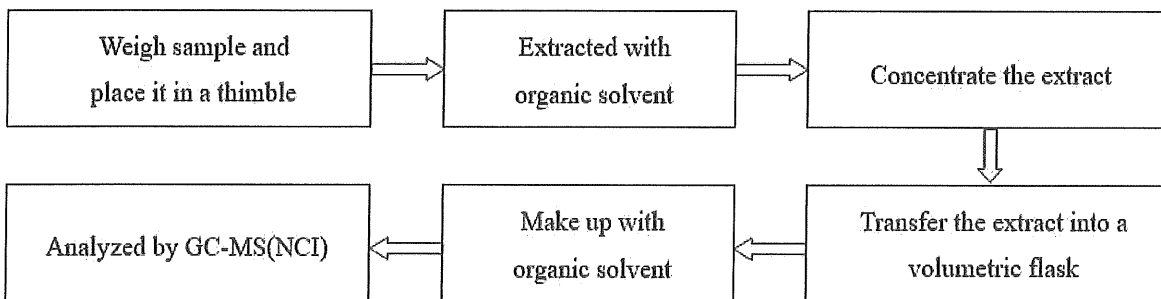
/ 华测检测 /

## Test Report

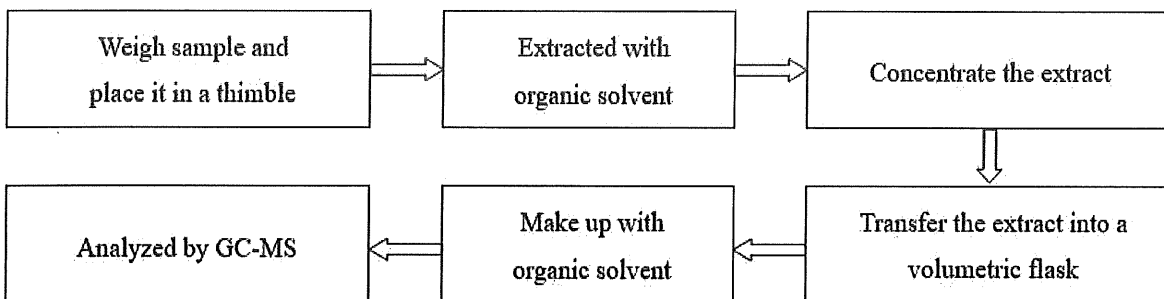
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### 9. Middle Chain Chlorinated Paraffins (MCCPs)



### 10. Phthalates



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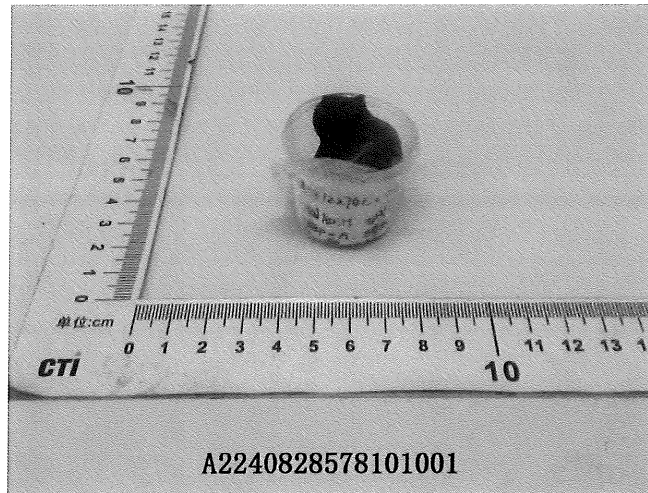


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### Photo(s) of the sample(s)



#### 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. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
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\*\*\* End of report \*\*\*

## Appendix

### Client Reference Information

ES-330、ES-330-S、ES-350-SX、  
ES-3373、ES-400、ES-500、ES-500-PB88、  
ES-500-SPA、ES-500-SP、ES-510、ES-510-SP、  
ES-510-SP-B、ES-530、ES-530-SP97、ES-650、  
ES-650-4H、ES-650-4H-B、ES-650-4H-XJ、  
ES-650-SPA、ES-660、ES-660-B、ES-660-SPA、  
ES-660-4H、ES-661、ES-661-B、ES-661-4H、  
ES-661-SPA、ES-662、ES-663、ES-664、ES-665、  
ES-665-B、ES-665-SPA、ES-666、ES-667、ES-668、  
ES-668-SPA、ES-669、ES-810、ES-820、ES-830、  
ES-860、ES-880、ES-730、ES-900-BI14、G493、  
G494、G54、G53、G53-1、G53-2、G563、G563-1、  
G603、G623、G624、G63、G63a、G64、G64a、  
G642、G643、G644、G644(D)、G43、G644-1、  
G654、JS-669、JS-666、JS-667、JS-665、JS-668、  
JS-668-M、MS-555、MS-556、MS-557、MS-558、  
MS-559  
EH-P37、EL-P37、EM-9250、PY-6037、MY5545、  
MQX3、B314

### Statement:

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A2240828578101001R1.



## Test Report



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Report No. A2240552268101001

Company Name SHENZHEN EARLYSUN TECHNOLOGY CO., LTD.  
shown on Report

Address NO. 6 BUILDING, TANGLANG INDUSTRY AREA A AREA,TAOYUAN  
SUBDISTRICT, NANSHAN DISTRICT,SHENZHEN CITY, GUANGDONG, P. R.  
CHINA

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

Sample Name 高铅锡膏  
Model No. ES-650-4H  
Sample Received Date Sep. 6, 2024  
Testing Period Sep. 6, 2024 to Sep. 11, 2024

Test Requested As specified by client, to test Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I) in the submitted sample(s).

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

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



*Hill Zheng*

Hill Zheng

Technical Manager

Date

Sep. 11, 2024

No. R411771750

Inspection & Testing International Group Co., Ltd.

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

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### Test Method

Test Item(s)	Test Method	Measured Equipment(s)
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

### Test Result(s)

Tested Item(s)	Result	MDL
	001	
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	Grey paste

**Remark:**

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

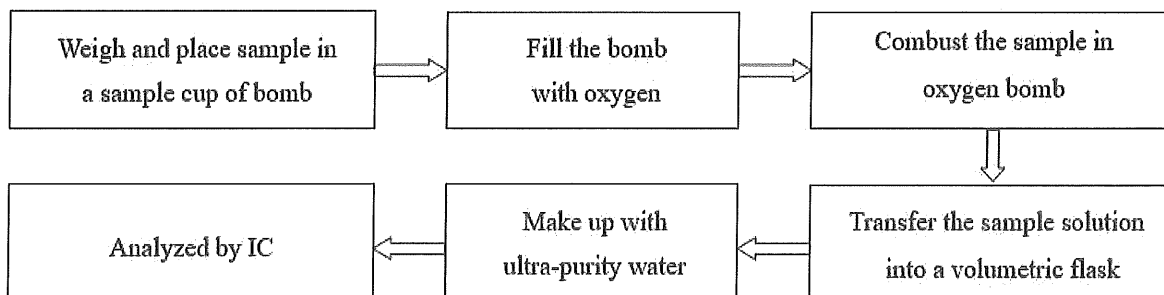


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### Test Process



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### Photo(s) of the sample(s)



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\*\*\* End of report \*\*\*

CTI  
A2240552268101001

## Appendix

### Client Reference Information

ES-300、ES-330、ES-3373、ES-400、  
ES-500、ES-510、ES-530、ES-650、ES-660、  
ES-661、ES-662、ES-663、ES-664、ES-665、  
ES-666、ES-667、ES-668、ES-669、G493、  
G494、G53、G54、G603、G624、G63、  
G63a、G64、G643、G644、G64a、ES-810、  
ES-820、ES-830、ES-860、JS-669、JS-666、  
JS-667、JS-665、MS-555、MS-556、  
MS-557、MS-558、MS-559

### Statement:

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A2240552268101001.

