



Test Report

Report No. A2250651459101001

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Company Name ZIBO MICRO COMMERCIAL COMPONENTS CORP
shown on Report
Address ZHANGLIU ROAD,ZHANGDIAN DISTRICT,ZIBO CITY,SHANDONG
PROVINCE(SOUTHEAST CORNER OF ZIBO TECHNOLOGY INDUSTRIAL)

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

Sample Name Lead wire
Material Cu
Sample Received Date Sep. 3, 2025
Testing Period Sep. 3, 2025 to Sep. 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), Beryllium(Be), Antimony(Sb), Halogen(s), Middle Chain Chlorinated Paraffins (MCCPs), Phthalates in the submitted sample(s).

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

Conclusion

Tested Sample	According to standard/directive	Result
Submitted Sample	Client's Limit	PASS



Yang Qiliang

Yang Qiliang
Lab Manager

Date

Sep. 9, 2025

No. R219922102

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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
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
Polybrominated Biphenyls (PBBs)	IEC 62321-12:2023	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-12:2023	GC-MS
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
Halogen(s)	EN 14582:2016	IC
Middle Chain Chlorinated Paraffins (MCCPs)	Refer to US EPA 3550C:2007 & US EPA 8270E:2018*	GC-MS(NCI)
Phthalates	IEC 62321-8:2017	GC-MS

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Test Result(s)

Tested Item(s)	Result	MDL	Client's Limit
	001		
Lead (Pb)	N.D.	2 mg/kg	50 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg	N.D.
Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. ▽	0.10 µg/cm ² (LOQ)	500 mg/kg

Tested Item(s)	Result	MDL	Client's Limit
	001		
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	25 mg/kg	N.D.
Dibromobiphenyl	N.D.	25 mg/kg	
Tribromobiphenyl	N.D.	25 mg/kg	
Tetrabromobiphenyl	N.D.	25 mg/kg	
Pentabromobiphenyl	N.D.	25 mg/kg	
Hexabromobiphenyl	N.D.	25 mg/kg	
Heptabromobiphenyl	N.D.	25 mg/kg	
Octabromobiphenyl	N.D.	25 mg/kg	
Nonabromobiphenyl	N.D.	25 mg/kg	
Decabromobiphenyl	N.D.	25 mg/kg	

Tested Item(s)	Result	MDL	Client's Limit
	001		
Polybrominated Diphenyl Ethers (PBDEs)			
Monobromodiphenyl ether	N.D.	25 mg/kg	N.D.
Dibromodiphenyl ether	N.D.	25 mg/kg	
Tribromodiphenyl ether	N.D.	25 mg/kg	
Tetrabromodiphenyl ether	N.D.	25 mg/kg	
Pentabromodiphenyl ether	N.D.	25 mg/kg	
Hexabromodiphenyl ether	N.D.	25 mg/kg	
Heptabromodiphenyl ether	N.D.	25 mg/kg	
Octabromodiphenyl ether	N.D.	25 mg/kg	
Nonabromodiphenyl ether	N.D.	25 mg/kg	
Decabromodiphenyl ether	N.D.	25 mg/kg	

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Tested Item(s)	Result	MDL	Client's Limit
	001		
Beryllium (Be)	N.D.	1 mg/kg	1000 mg/kg

Tested Item(s)	Result	MDL	Client's Limit
	001		
Antimony (Sb)	N.D.	1 mg/kg	580 mg/kg

Tested Item(s)	Result	MDL	Client's Limit
	001		
Halogen(s)			
Fluorine (F)	N.D.	10 mg/kg	500 mg/kg
Chlorine (Cl)	N.D.	10 mg/kg	500 mg/kg
Bromine (Br)	N.D.	10 mg/kg	500 mg/kg
Iodine (I)	N.D.	10 mg/kg	700 mg/kg
Total (Cl + Br)	N.D.	/	1000 mg/kg

Tested Item(s)	Result	MDL	Client's Limit
	001		
Middle Chain Chlorinated Paraffins (MCCPs)	N.D.	100 mg/kg	N.D.

Tested Item(s)	Result	MDL	Client's Limit
	001		
Phthalates			
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	N.D.
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	N.D.
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	N.D.
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	N.D.
Di-isononyl phthalate (DINP) CAS#:28553-12-0, 68515-48-0	N.D.	50 mg/kg	N.D.

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Cupreous metal

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

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 $\mu\text{g}/\text{cm}^2$

-▼The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 $\mu\text{g}/\text{cm}^2$. The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Note: “*” indicates the method(s) is (are) not in CNAS accreditation scope.

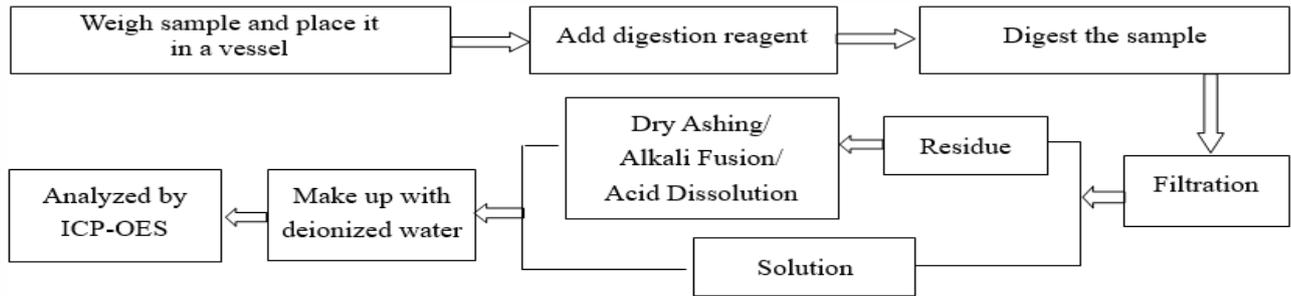
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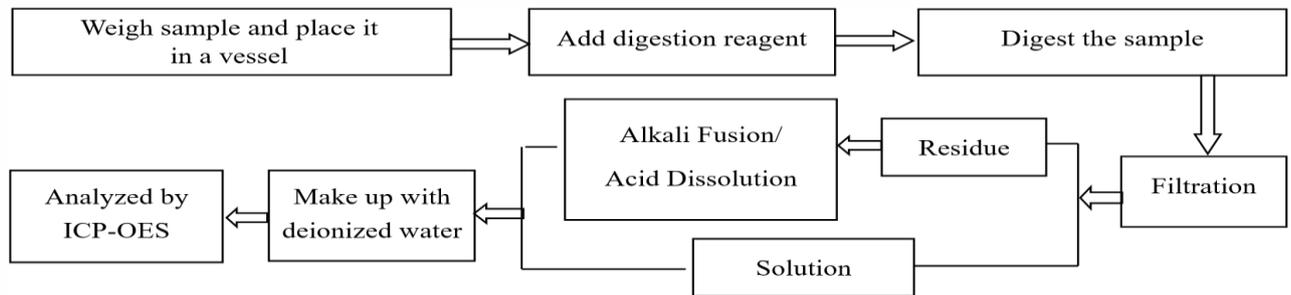
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Test Process

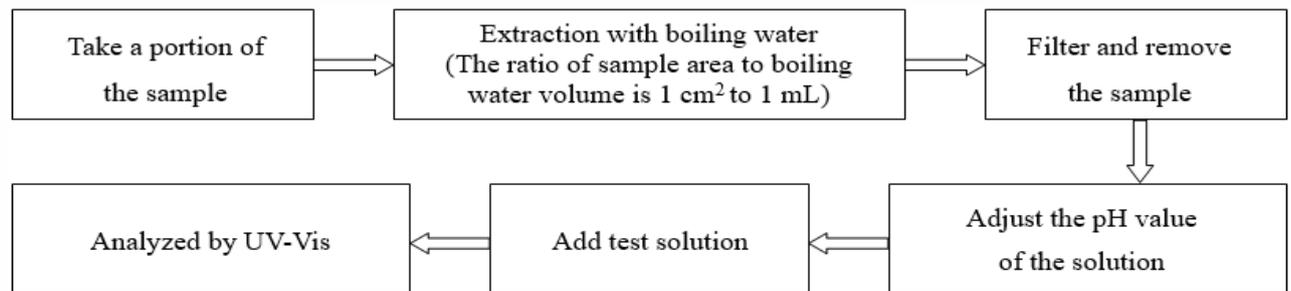
1. Lead (Pb), Cadmium (Cd)



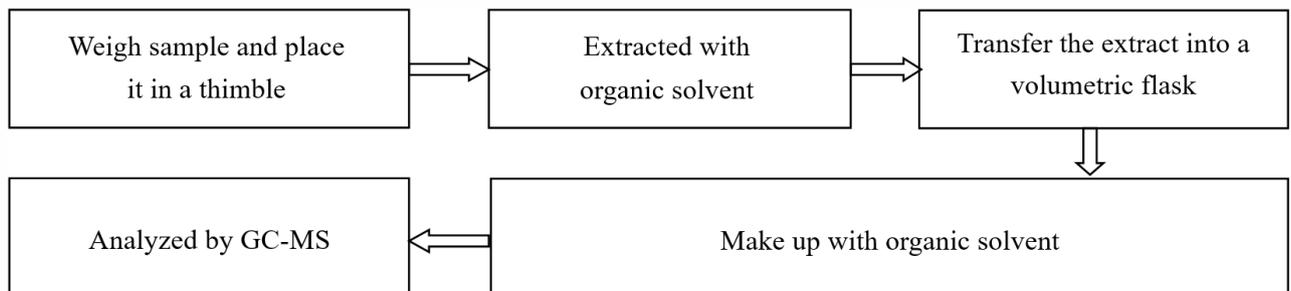
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



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

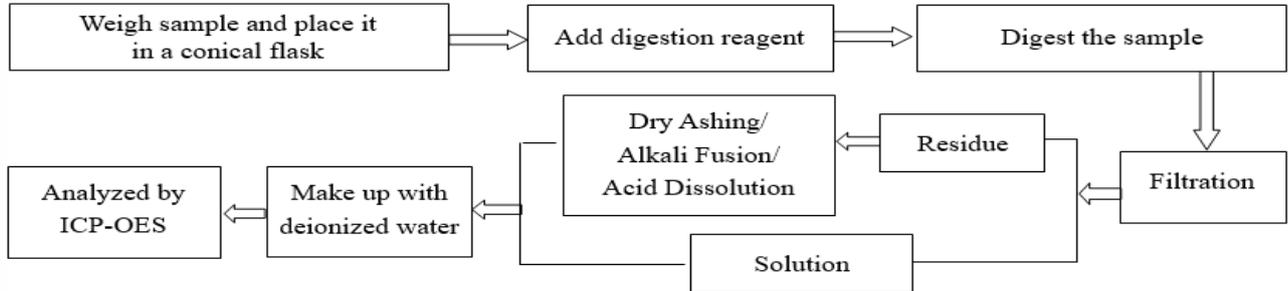


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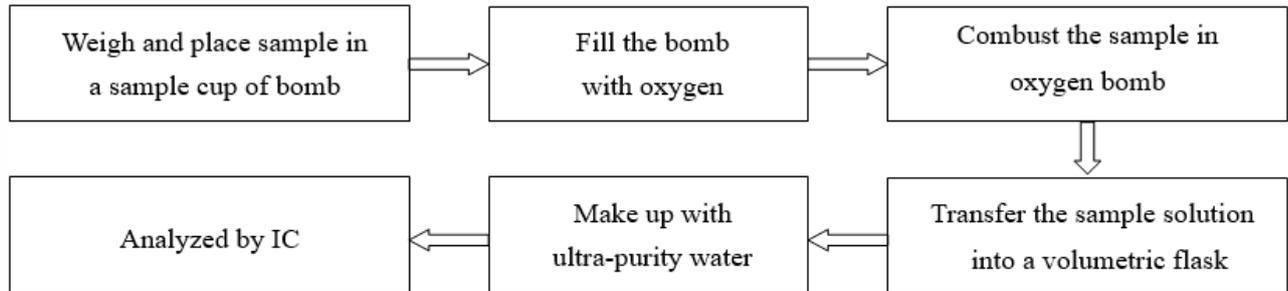
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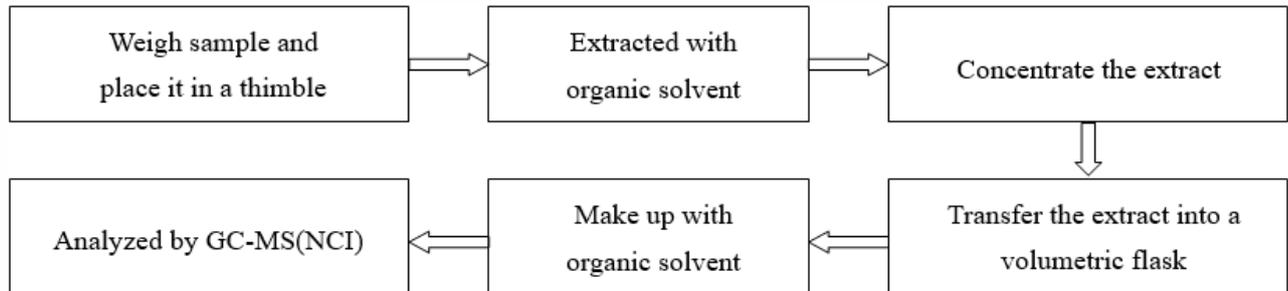
5. Beryllium(Be), Antimony(Sb)



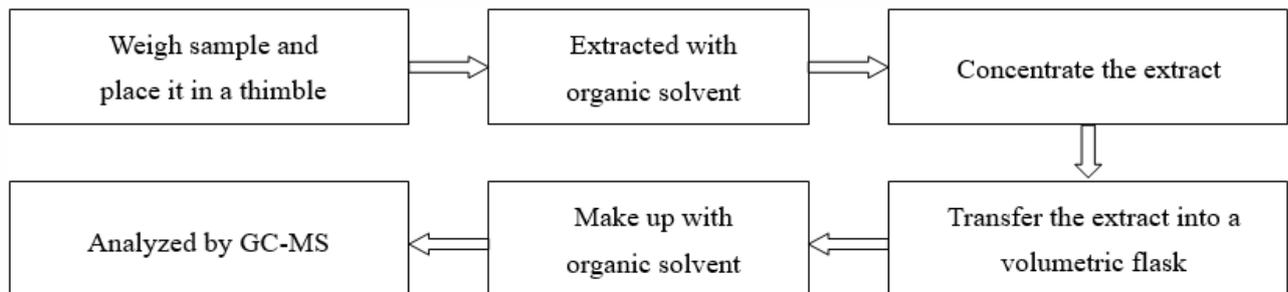
6. Halogen(s)



7. Middle Chain Chlorinated Paraffins (MCCPs)



8. Phthalates

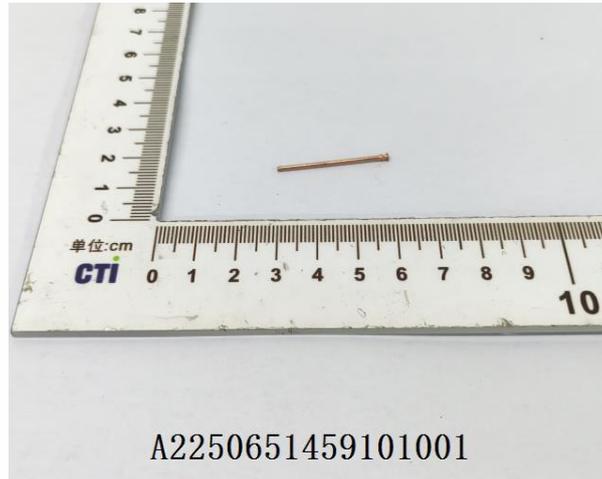


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Photo(s) of the sample(s)



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;
5. Without written approval of CTI, this report can't be reproduced except in full;
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*** End of Report ***