



Report No. A2240413041120 Page 1 of 7

Company Name	DONGGUAN AILLEN ELECTRONIC TECHNOLOGY CO., LTD.
shown on Report	
Address	NO.28, JINGGANG ZHONG ROAD, SHATIAN TOWN, DONGGUAN CITY,
	GUANGDONG PROVINCE, P. R. CHINA

The following sample(s) and a the applicant	sample information was/were submitted and identified by/on the behalf of
Sample Name	Shunt resistors
Sample Received Date	Jul. 15, 2024
Testing Period	Jul. 15, 2024 to Jul. 24, 2024
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) in the submitted sample(s).
Test Method/Test Result(s)	Please refer to the following page(s).
**************************************	******************

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

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.



flill Theory

Hill Zheng Technical Manager Date

Jul. 24, 2024

No. R677501863

ing International Group Co.,Ltd.

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



Report No. A2240413041120

Page 2 of 7

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 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)*	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)*	IEC 62321-8:2017	GC-MS





Report No. A2240413041120

Page 3 of 7

Test Result(s)

Tested Item(s)	Result		MDL	Limit
resteu rem(s)	1	2	MDL	Linnt
Lead (Pb)	N.D.	N.D.	10 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	10 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	10 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.♥	N.D.♥	0.10 µg/cm ²	1000 mg/kg
	N.D.	N.D.	(LOQ)	1000 mg/kg

Tested Item(s)	Result		MDL	Limit
Testeu Item(s)	1	2		Linnt
Polybrominated Biphenyls (PBBs)*			
Monobromobiphenyl	N.D.	N.D.	100 mg/kg	
Dibromobiphenyl	N.D.	N.D.	100 mg/kg	
Tribromobiphenyl	N.D.	N.D.	100 mg/kg	
Tetrabromobiphenyl	N.D.	N.D.	100 mg/kg	
Pentabromobiphenyl	N.D.	N.D.	100 mg/kg	1000 m a //r a
Hexabromobiphenyl	N.D.	N.D.	100 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	N.D.	100 mg/kg	
Octabromobiphenyl	N.D.	N.D.	100 mg/kg	
Nonabromobiphenyl	N.D.	N.D.	100 mg/kg	
Decabromobiphenyl	N.D.	N.D.	100 mg/kg	

Tested Item(s)	Result		MDL	Limit
resteu riem(s)	1	2		Linnt
Polybrominated Diphenyl Ethers	(PBDEs)*			
Monobromodiphenyl ether	N.D.	N.D.	100 mg/kg	
Dibromodiphenyl ether	N.D.	N.D.	100 mg/kg	
Tribromodiphenyl ether	N.D.	N.D.	100 mg/kg	
Tetrabromodiphenyl ether	N.D.	N.D.	100 mg/kg	
Pentabromodiphenyl ether	N.D.	N.D.	100 mg/kg	1000 m a /1.a
Hexabromodiphenyl ether	N.D.	N.D.	100 mg/kg	1000 mg/kg
Heptabromodiphenyl ether	N.D.	N.D.	100 mg/kg	
Octabromodiphenyl ether	N.D.	N.D.	100 mg/kg	
Nonabromodiphenyl ether	N.D.	N.D.	100 mg/kg	
Decabromodiphenyl ether	N.D.	N.D.	100 mg/kg	



Report No. A2240413041120

Page 4 of 7

Tested Item(s)	Result		MDL	Limit
resteu rem(s)	1	2		Linit
Phthalates (DBP, BBP, DEHP, DI	BP)*			
Dibutyl phthalate (DBP)	N.D.	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-74-2	N.D.	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP)	N.D.	N.D.	50 m a /1 a	1000 ma/ka
CAS#:85-68-7	N.D.	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate	ND	ND	50 m a /1 a	1000 ma/ka
(DEHP) CAS#:117-81-7	N.D.	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP)	ND	ND	50	1000
CAS#:84-69-5	N.D.	N.D.	50 mg/kg	1000 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	1	Silvery metal
2	2	Silvery metal

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

-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 μ g/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. 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 item(s)/method(s) is (are) not in CNAS accreditation scope.

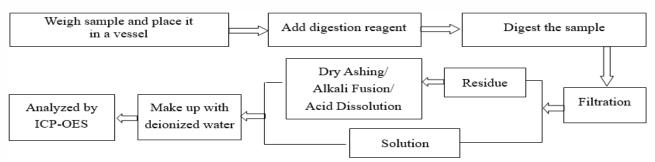
CTI华测检测

Test Report

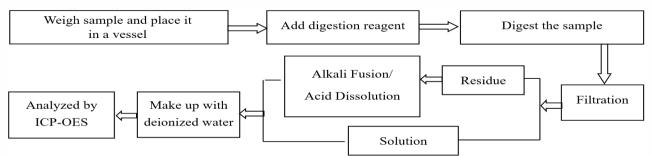
Report No. A2240413041120

Test Process

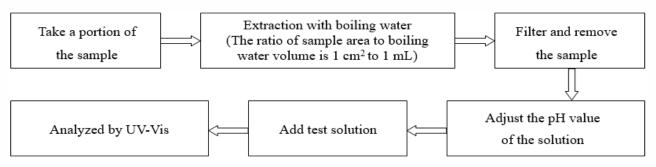
1. Lead (Pb), Cadmium (Cd)



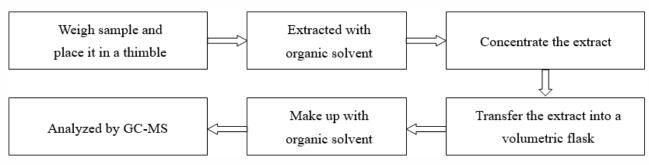
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



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



Page 5 of 7

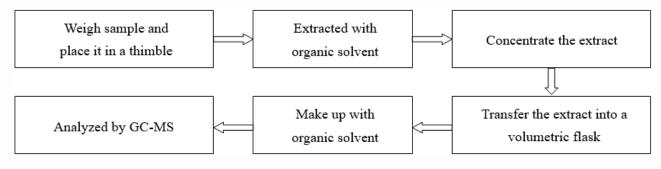
AND ANUP CO. 12 Same set



Report No. A2240413041120

Page 6 of 7

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



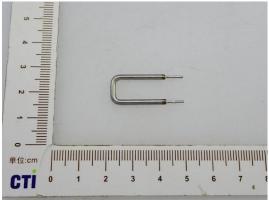


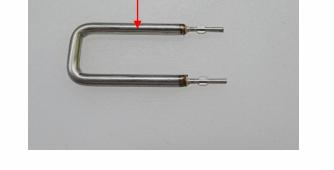
Report No. A2240413041120

Page 7 of 7

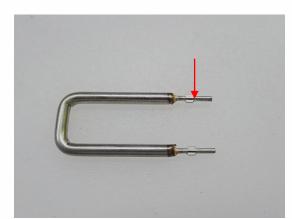
Photo(s) of the sample(s)

Final Product





1



2

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;
- 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;
- 6. 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 ***