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

The following sample(s) and s the applicant	ample information was/were submitted and identified by/on the behalf of
Sample Name	Gas-discharge tube
Sample Received Date	Jul. 15, 2024
Testing Period	Jul. 15, 2024 to Jul. 25, 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).

Technical Manager

flill Hill Zheng

Date

Jul. 25, 2024

No. R677506528

ting International Group Co.,Ltd.

TheBuilding, Wing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



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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.



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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
	IEC 62321-7-1:2015	UV-Vis
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of	UV-Vis/ICP-OES
	Total Chromium by IEC 62321-5:2013	U V-VIS/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers	IEC 62321-6:2015	GC-MS
(PBDEs)	IEC 02321-0.2013	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS





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Test Result(s)

Tested Item(s)	Result		MDL	Limit	
	1	2	3	MDL	Linnt
Lead (Pb)	N.D.	N.D.	N.D.	10 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.	10 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	N.D.	N.D.	10 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.♥		N.D.♥	0.10 μg/cm ² (LOQ)	1000 mg/kg
		N.D.		20 mg/kg	1000 mg/kg

Tested Item(s)	Result		MDL	Limit
Testeu Item(s)	1	3	MIDL	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
Testeu Item(s)	2		Linnt
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	100 mg/kg	
Dibromobiphenyl	N.D.	100 mg/kg	
Tribromobiphenyl	N.D.	100 mg/kg	
Tetrabromobiphenyl	N.D.	100 mg/kg	
Pentabromobiphenyl	N.D.	100 mg/kg	1000 ma/la
Hexabromobiphenyl	N.D.	100 mg/kg	1000 mg/kg
Heptabromobiphenyl	N.D.	100 mg/kg	
Octabromobiphenyl	N.D.	100 mg/kg	
Nonabromobiphenyl	N.D.	100 mg/kg	
Decabromobiphenyl	N.D.	100 mg/kg	

CTI华测检测

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Tested Item(s)	Result		MDL	Limit
Testeu Item(s)	1	3		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
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	

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



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Tested Item(s)	Result		MDL	Limit
	1	3		Linnt
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 mg/kg	1000 mg/kg
CAS#:85-68-7	N.D.	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate	N.D.	N.D.	50 mg/kg	1000 mg/kg
(DEHP) CAS#:117-81-7	N.D.	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP)	N.D.	N.D.	50 m a /l. a	1000 m a/lta
CAS#:84-69-5	IN.D.	IN.D.	50 mg/kg	1000 mg/kg

Tested Item(s)	Result	MDL	Limit
	2	MDL	Linnt
Phthalates (DBP, BBP, DEHP, DI	BP)		
Dibutyl phthalate (DBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP)	N.D.	50 mg/kg	1000 mg/kg
CAS#:85-68-7	N.D.		
Di-(2-ethylhexyl) phthalate	N.D.	50 ma/laa	1000 ma/la
(DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP)	N.D.	50	1000 mg/kg
CAS#:84-69-5	N.D.	50 mg/kg	

Sample/Part Description

No.	CTI Sample ID	Description
1	1	Silvery/cupreous metal
2	2	White ceramic with blue printing
3	3	Silvery/cupreous metal



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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 $0.10 \ \mu g/cm^2$ - The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 μ g/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.

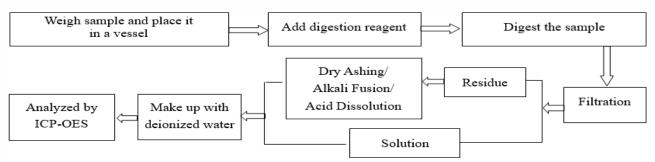
"*" indicates the item(s)/method(s) is (are) not in CNAS accreditation scope. Note:



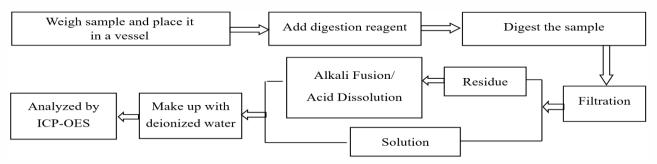
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Test Process

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

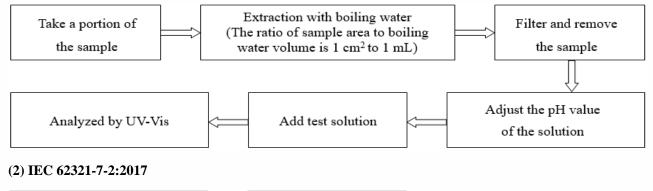


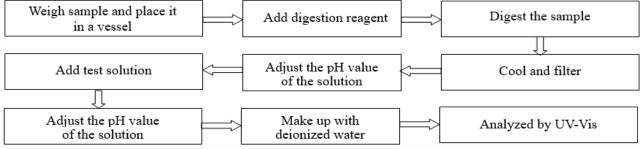
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))

(1) IEC 62321-7-1:2015





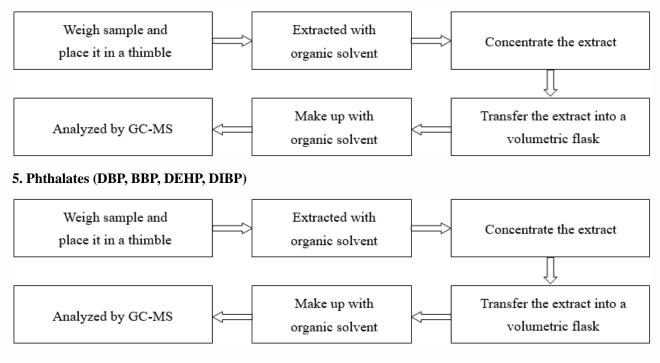
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4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)





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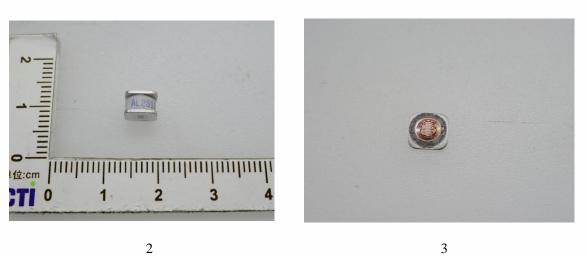
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Photo(s) of the sample(s)

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Final Product

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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 ***