

Test Report

Report No. RLSHB000196440001-1

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Applicant SHANGHAI SEEFULL ELECTRONIC CO.,LTD.
LITEON SEMICONDUCTOR CORP
Address 6 ZHENYE RD.,DONGJING,SONGJIANG DISTRICT,SHANGHAI,CHINA
28-1,WU SHIN STREET,TA WU LUNG,KEELUNG 204,TAIWAN,R.O.C

Report on the submitted sample(s) said to be:

Sample Name AXIAL DIODE:LEAD FREE PLATING
Sample Description 1. BLACK BODY
2. PLATING OF SILVERY METAL PIN
3. BLACK PLASTIC
Part No. DO-201AD(1N5822,SB3XX,SB3100,SB5XX,SB5XXX,SB8XX,UF30XX,UG30XX,SF3XXG,SF40XG,SF50XG,PR30XX,PR30XXG,1N54XX,1N54XXG ETC)
Sample Received Date Dec.26,2009
Testing Period Dec.26,2009 to Jan.6,2010
Test Requested :As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs),Perfluorooctanoic Acid (PFOA), Perfluorooctane Sulfonates(PFOS), Polycyclic Aromatic Hydrocarbons(PAHs) contents in the submitted sample.

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

Tested by



Technical Manager

Inspected by

Zhang Yijun

Approved by

Date

Jan.7,2010

No. 116276418

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Test Method:

Tested Items	Pretreatment Method	Measured Equipment	M.D.L.
Lead (Pb)/ Cadmium (Cd)	Refer to IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2mg/kg
	Refer to IEC 62321:2008 Ed.1 Sec.9 Plating layer test method(In-house method)		
	Refer to IEC 62321:2008 Ed.1 Sec.10		
Mercury (Hg)	Refer to IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2mg/kg
	Plating layer test method(In-house method)		
Hexavalent Chromium (Cr(VI))	Refer to IEC 62321:2008 Ed.1 Annex B	UV-Vis	/
	Refer to IEC 62321:2008 Ed.1 Annex C		2mg/kg
Polybrominated Biphenyls (PBBs)	Refer to IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	Refer to IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
Perfluorooctanoic Acid (PFOA)	Refer to US EPA 3550C:2007	LC-MS-MS	5 mg/kg
			0.5ug/m ² (Plating layer)
Perfluorooctane Sulfonates(PFOS)	Refer to US EPA 3550C:2007	LC-MS-MS	5 mg/kg
			0.5ug/m ² (Plating layer)
Polycyclic Aromatic Hydrocarbons (PAHs)	Refer to US EPA 8270 D:2007	GC-MS	0.2mg/kg

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Test Result:

Tested Item	Content		
	1	2*	3
Lead (Pb)	9042 mg/kg	27mg/kg	N.D.
Cadmium (Cd)	N.D.	N.D.	/
Mercury (Hg)	N.D.	N.D.	/
Hexavalent Chromium (Cr(VI))	N.D.	Negative	/

Tested Item	Content		
	1	2*	3
Polybrominated Biphenyls(PBBs)			
Monobromobiphenyl	N.D.	/	/
Dibromobiphenyl	N.D.	/	/
Tribromobiphenyl	N.D.	/	/
Tetrabromobiphenyl	N.D.	/	/
Pentabromobiphenyl	N.D.	/	/
Hexabromobiphenyl	N.D.	/	/
Heptabromobiphenyl	N.D.	/	/
Octabromobiphenyl	N.D.	/	/
Nonabromobiphenyl	N.D.	/	/
Decabromobiphenyl	N.D.	/	/
Polybrominated Diphenyl Ethers(PBDEs)			
Monobromodiphenyl ether	N.D.	/	/
Dibromodiphenyl ether	N.D.	/	/
Tribromodiphenyl ether	N.D.	/	/
Tetrabromodiphenyl ether	N.D.	/	/
Pentabromodiphenyl ether	N.D.	/	/
Hexabromodiphenyl ether	N.D.	/	/
Heptabromodiphenyl ether	N.D.	/	/
Octabromodiphenyl ether	N.D.	/	/
Nonabromodiphenyl ether	N.D.	/	/
Decabromodiphenyl ether	N.D.	/	/

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Tested Item	Content		
	1	2*	3
Perfluorooctanoic Acid (PFOA)	N.D.	N.D.	/
Perfluorooctane Sulfonates(PFOS)	N.D.	N.D.	/

Testing Item	Content		
	1	2*	3
Polycyclic Aromatic Hydrocarbons(PAHs)			
Naphthalene	N.D.	/	/
Acenaphthylene	N.D.	/	/
Acenaphthene	N.D.	/	/
Fluorene	N.D.	/	/
Phenanthrene	N.D.	/	/
Anthracene	N.D.	/	/
Fluoranthene	N.D.	/	/
Pyrene	N.D.	/	/
Benzo[a]anthracene	N.D.	/	/
Chrysene	N.D.	/	/
Benzo[b]fluoranthene	N.D.	/	/
Benzo[[k]fluoranthene	N.D.	/	/
Benzo[a]pyrene	N.D.	/	/
Indenol[1,2,3-cd]pyrene	N.D.	/	/
Dibenz[a,h]anthracene	N.D.	/	/
Benzo[g,h,i]perylene	N.D.	/	/

Note : The sample had been dissolved totally tested for Lead, Mercury, Cadmium.

- M.D.L.=Method Detection limit

-N.D. = Not Detected (<report limit).

-mg/kg=ppm =parts per million.

-Negative = Absence of Cr(VI)

-*According to the client's statement, the sample material is the same as the sample in report RLSHB000201630001, so the test result is presented in reference to that one.

This report replaces report RLSHB000196440001.Report RLSHB000196440001 is terminated.

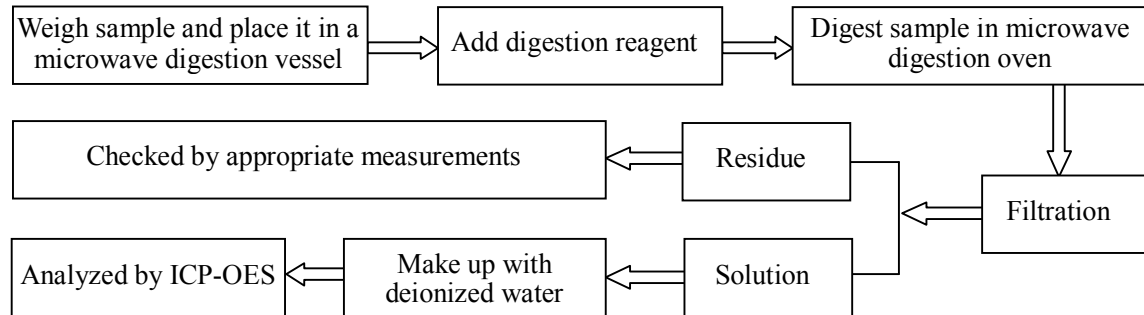
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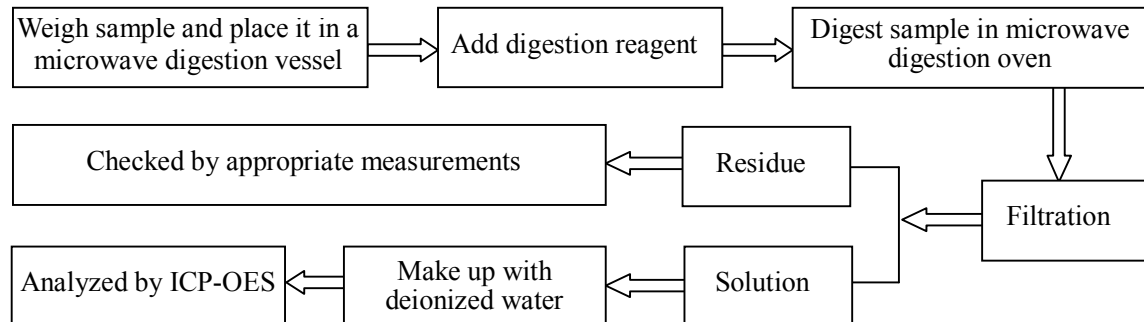
1. Test for Pb/Cd Content

IEC 62321:2008 Ed.1 Sec.8/Sec.10



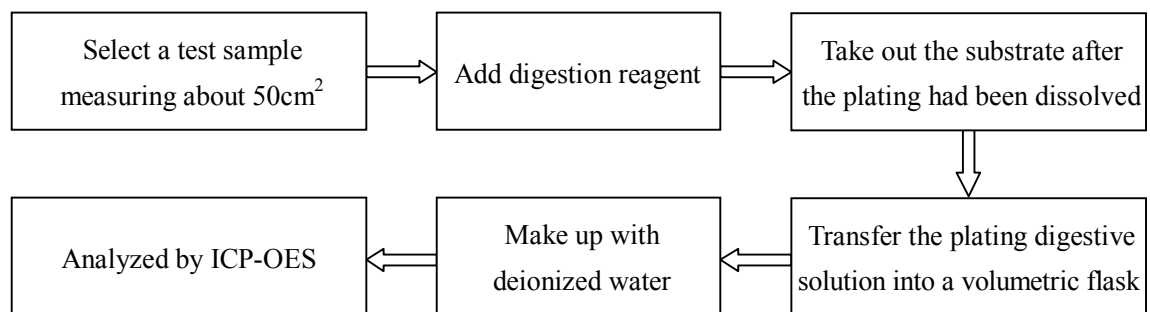
2. Test for Hg Content

IEC 62321:2008 Ed.1 Sec.7



3. Test for Pb/Cd/ Hg Content

(Plating layer test method(In-house method)and Refer to IEC 62321:2008 Ed.1 Sec.9)



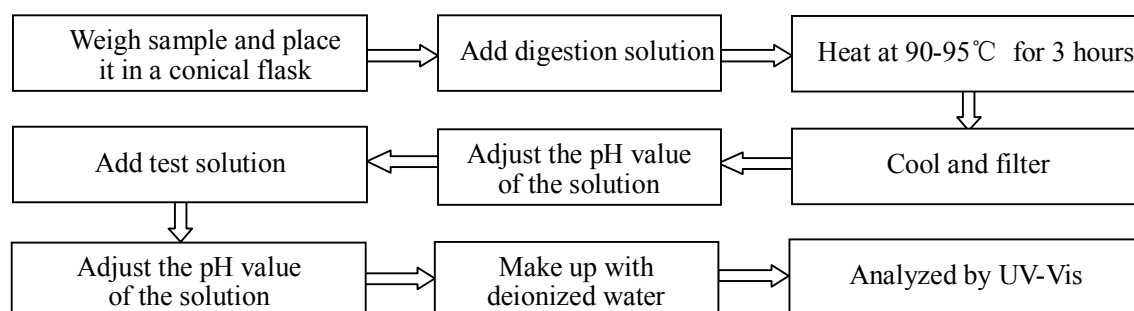
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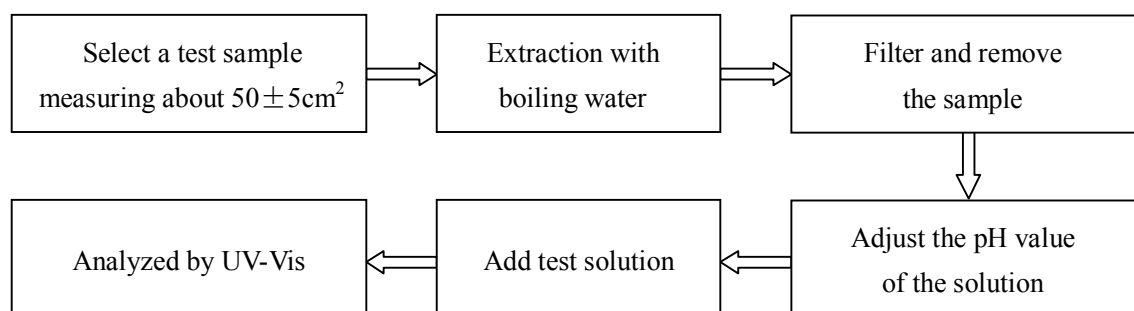
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4. Test for Chromium(VI) Content

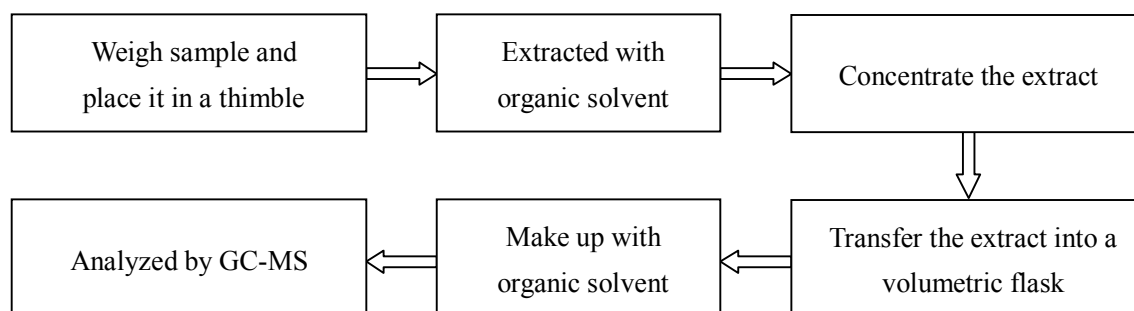
(1). IEC 62321:2008 Ed.1 Annex C



(2). IEC 62321:2008 Ed.1 Annex B



5. Test for PBBs /PBDEs Content

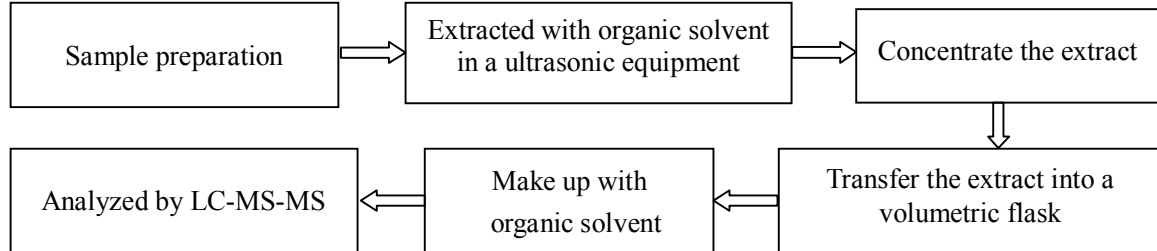


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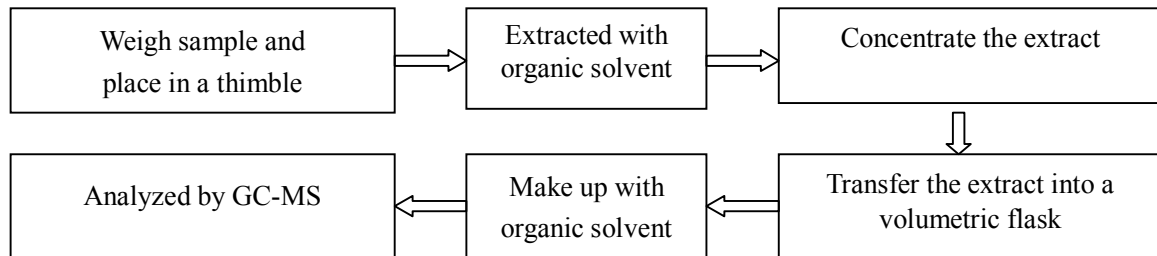
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6 Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonates(PFOS)



7. Polycyclic Aromatic Hydrocarbons(PAHs)

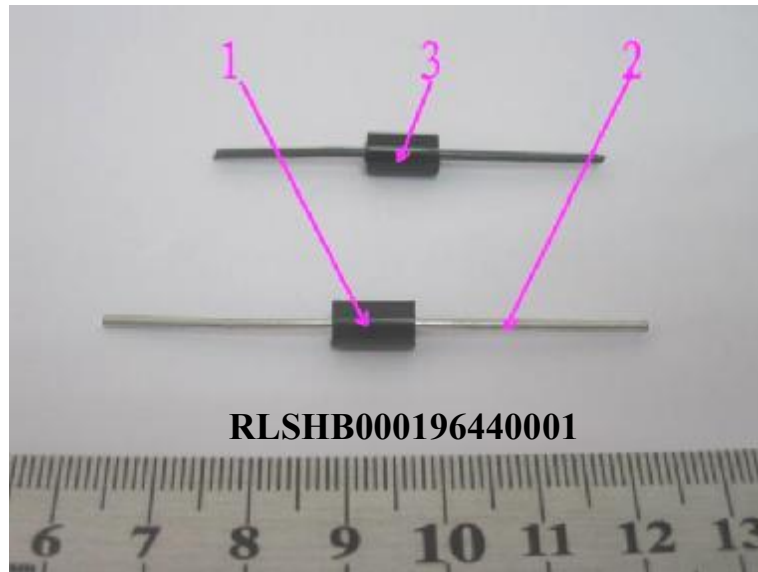


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Photo of the sample



*** End of report ***

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