

Conclusion

Tested Sample	According to directive	Result
Submitted Sample	2011/65/EU*	Pass

*2011/65/EU is a new version of RoHS Directive (2002/95/EC), which focuses on restriction of the use of certain hazardous substances (Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)) in electrical and electronic equipment. Pass means that the results shown on the report do not exceed the limits set by RoHS Directive 2011/65/EU.

Tested by Ada Mar. 26, 2015 Mar. 26, 2015Mar. 26

CENTRE TESTING INTERNATIONAL CORPORATION

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Test Report



Report No. ECL01H013078002



Test Method

Test Item(s)	Test Method	Measured Equipment(s)	
Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	
Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	
Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES	
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis	
Polybrominated Biphenyl(PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	
Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3550C:2007 & US EPA 8270D:2007	GC-MS	
Phthalates	Refer to EN 14372:2004(E)	GC-MS	

Test Result(s)

Tested Item(s)	Result	MDL	Limit of Directive 2011/65/EU
Lead (Pb)	N.D.	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.	2 mg/kg	1000 mg/kg
Tested Item(s)	Result	MDL	Limit of Directive 2011/65/EU
Polybrominated Biphenyl(PBBs)			
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	



Test Report

Tested Item(s)		Result	MDL	Limit of Directive 2011/65/EU	
Polybrominated Diphenyl Ethers(PI	BDEs)	1		12	
Monobromodiphenyl ether		N.D.	5 mg/kg		
Dibromodiphenyl ether		N.D.	5 mg/kg		
Tribromodiphenyl ether		N.D.	5 mg/kg		
Tetrabromodiphenyl ether	0	N.D.	5 mg/kg		
Pentabromodiphenyl ether	Ð.	N.D.	5 mg/kg	1000 mg/kg	
Hexabromodiphenyl ether		N.D.	5 mg/kg		
Heptabromodiphenyl ether		N.D.	5 mg/kg	(J)	
Octabromodiphenyl ether		N.D.	5 mg/kg		
Nonabromodiphenyl ether		N.D.	5 mg/kg		
Decabromodiphenyl ether		N.D.	5 mg/kg		
Tested Item(s)		Result		MDL	
Hexabromocyclododecane (HBCDD)		N.D.		5 mg/kg	
Tested Item(s)		Result		MDL	
Phthalates		~1~			
Dibutyl phthalate(DBP) CAS#:84-74-2		N.D.		50 mg/kg	
Butylbenzyl phthalate(BBP) CAS#:85-68-7			D.	50 mg/kg	
Di-2-ethylhexyl phthalate(DEHP) CAS#:117-81-7		N.D.		50 mg/kg	

Tested Sample/Part Description Electronic components (Tested as a whole)

Remark:

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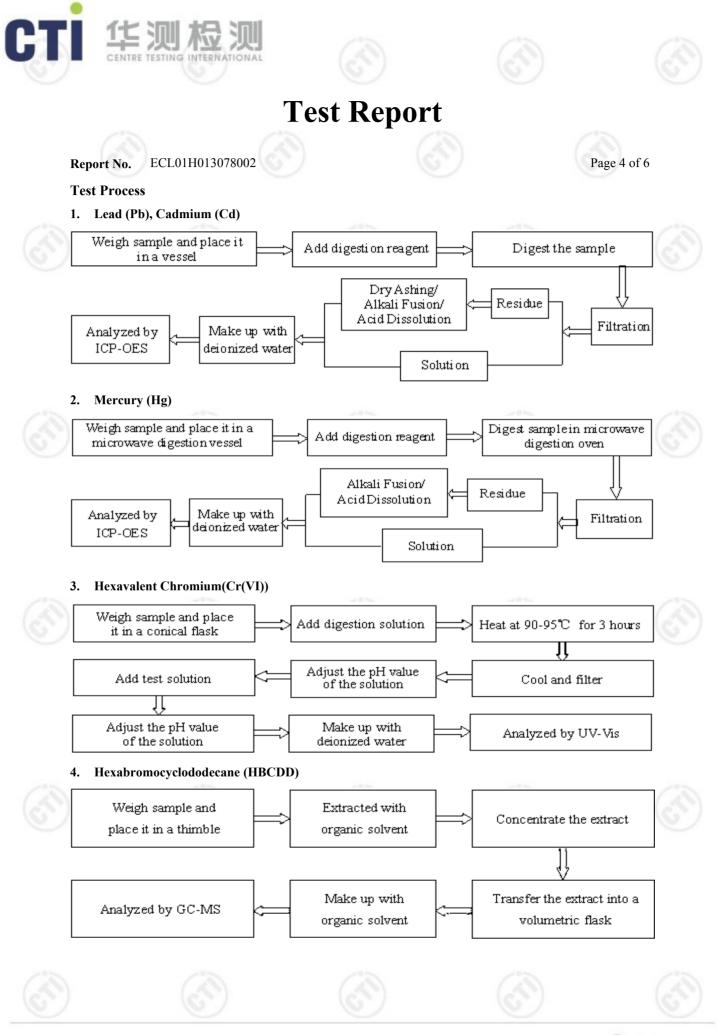
The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury. -The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material. -MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million



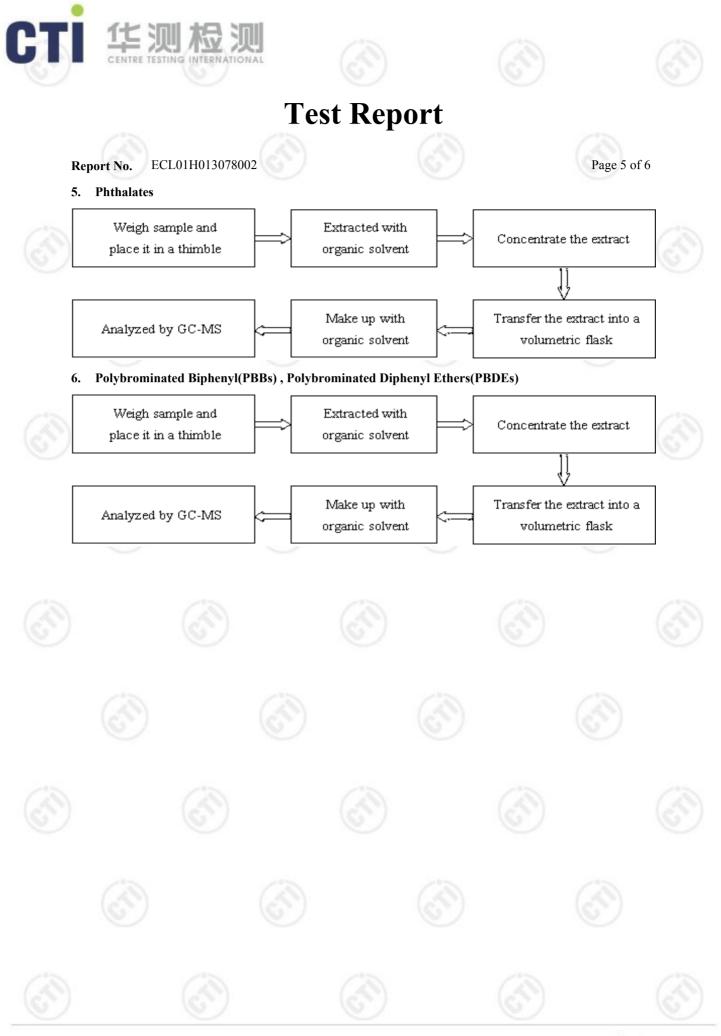
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Test Report





ECL01H013078002



Photo(s) of the sample(s)



*** End of report ***

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