



TEST REPORT

Report No: SZ170910363EN

Date: 2017/09/30

Applicant UTOP Electronic (Guangzhou) Co., Ltd.

Address No. 51 Shi Nan Road Huijiang Village Dashi Town Panyu Area, Guangzhou City, China.

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

Sample Name UU series
Sample Received Date 2017.09.26
Testing Period 2017.09.26 – 2017.09.30

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), Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I) in the submitted sample(s).

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

Note: "EN" denotes English report

Conclusion		
Tested sample	According to standard	Result(s)
Submitted sample	2011/65/EU & (EU) 2015/863	Pass
	IEC 61249-2-21:2003	Pass

***** For Further Details, Please Refer To the Following Page(s) *****

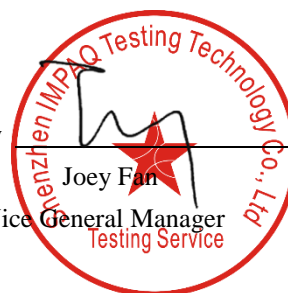
Tested by

Haden

Checked by

Randy

Approved by



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Report No: SZ170910363EN**Date: 2017/09/30****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	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321:2008	UV-Vis
Polybrominated Biphenyls(PBBs) and Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates(DBP, BBP, DEHP, DIBP)	EN 14372:2004(E)	GC-MS
Halogen (F, Cl, Br and I)	EN 14582:2007	IC

Test Result(s)**1. Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)) Content**

Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	001		
Lead(Pb)	N.D.	2.0	1000
Cadmium(Cd)	3.8	2.0	100
Mercury(Hg)	N.D.	2.0	1000
Hexavalent Chromium(Cr(VI))	N.D.	2.0	1000

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

- "MDL" denotes Method Detection Limit
- "N.D." denotes Not Detected (<MDL)
- "mg/kg" denotes parts per million (ppm)

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2. Polybrominated Biphenyls (PBBs) And Polybrominated Diphenyl Ethers (PBDEs) Content

Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	001		
Monobromobiphenyl	N.D.	5.0	/
Dibromobiphenyl	N.D.	5.0	/
Tribromobiphenyl	N.D.	5.0	/
Tetrabromobiphenyl	N.D.	5.0	/
Pentabromobiphenyl	N.D.	5.0	/
Hexabromobiphenyl	N.D.	5.0	/
Heptabromobiphenyl	N.D.	5.0	/
Octabromobiphenyl	N.D.	5.0	/
Nonabromobiphenyl	N.D.	5.0	/
Decabromobiphenyl	N.D.	5.0	/
Sum of Polybrominated Biphenyls(PBBs)	N.D.	/	1000
Monobromodiphenyl ether	N.D.	5.0	/
Dibromodiphenyl ether	N.D.	5.0	/
Tribromodiphenyl ether	N.D.	5.0	/
Tetrabromodiphenyl ether	N.D.	5.0	/
Pentabromodiphenyl ether	N.D.	5.0	/
Hexabromodiphenyl ether	N.D.	5.0	/
Heptabromodiphenyl ether	N.D.	5.0	/
Octabromodiphenyl ether	N.D.	5.0	/
Nonabromodiphenyl ether	N.D.	5.0	/
Decabromodiphenyl ether	N.D.	5.0	/
Sum of Polybrominated Diphenyl Ethers(PBDEs)	N.D.	/	1000

Note:

- "MDL" denotes Method Detection Limit
- "N.D." denotes Not Detected (<MDL)
- "mg/kg" denotes parts per million (ppm)
- "/" denotes Not Regulated

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3. Phthalates Content

Tested Item	Result (%)	MDL (%)	Limit (%)
	001		
Dibutyl phthalate (DBP)	N.D.	0.003	0.1
Benzyl butyl phthalate (BBP)	N.D.	0.003	0.1
Di(2-ethylhexyl) phthalate (DEHP)	N.D.	0.003	0.1
Diisobutyl phthalate(DIBP)	N.D.	0.003	0.1

Note: - "MDL" denotes Method Detection Limit
- "N.D." denotes Not Detected (<MDL)

4. Halogen (F, Cl, Br and I) Content

Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	001		
Fluorine (F)	N.D.	50	/
Chlorine (Cl)	N.D.	50	900
Bromine (Br)	N.D.	50	900
Iodine (I)	N.D.	50	/
Chlorine (Cl)+ Bromine (Br)	N.D.	/	1500

Note: - "MDL" denotes Method Detection Limit
- "N.D." denotes Not Detected (<MDL)
- "mg/kg" be equal to ppm, denotes parts per million
- "/" denotes Not Regulated

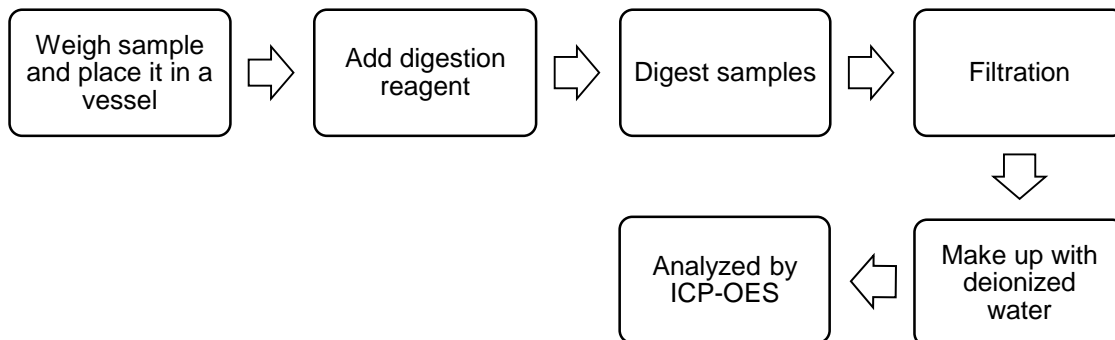
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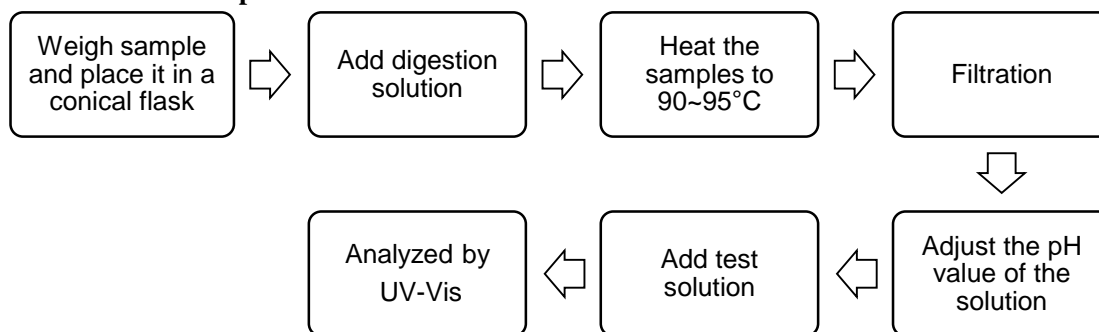
Test Flow Chart

1) Pb&Cd&Hg Content

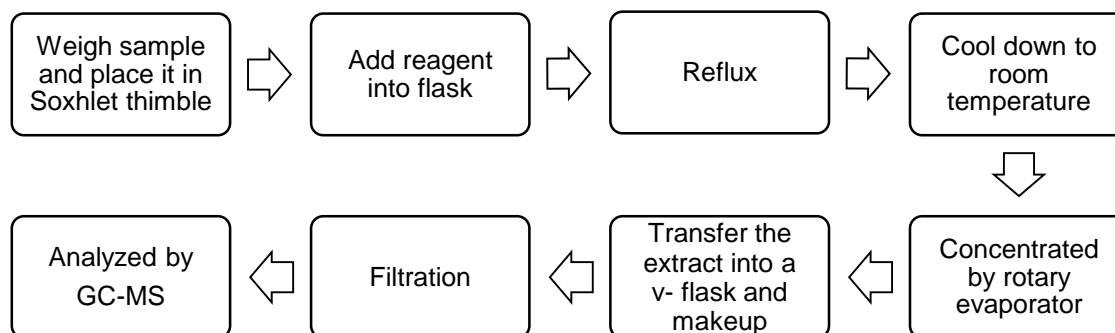


2) Chromium (VI) Content

For Non-metal samples



3) PBBs/PBDEs Content

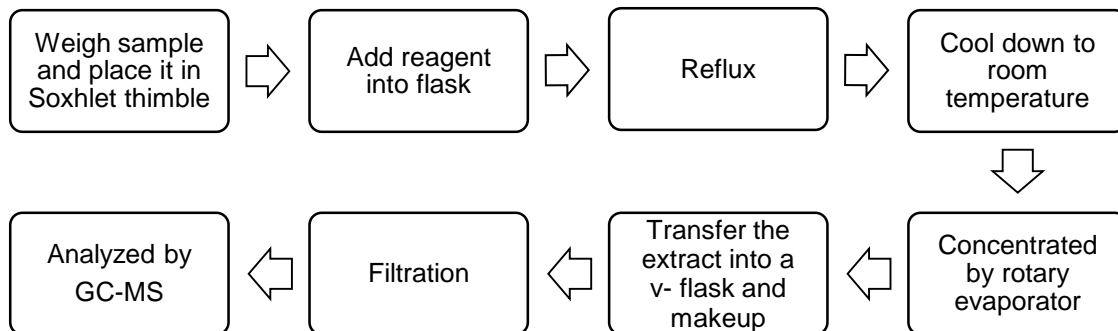


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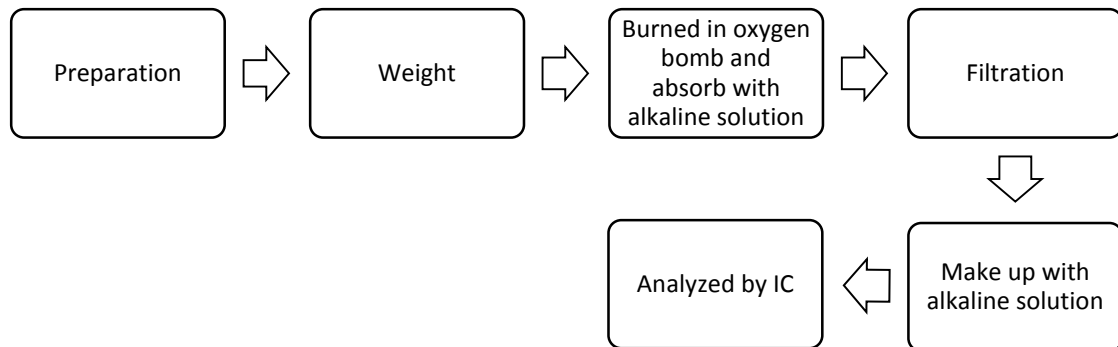
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4) Phthalates Content



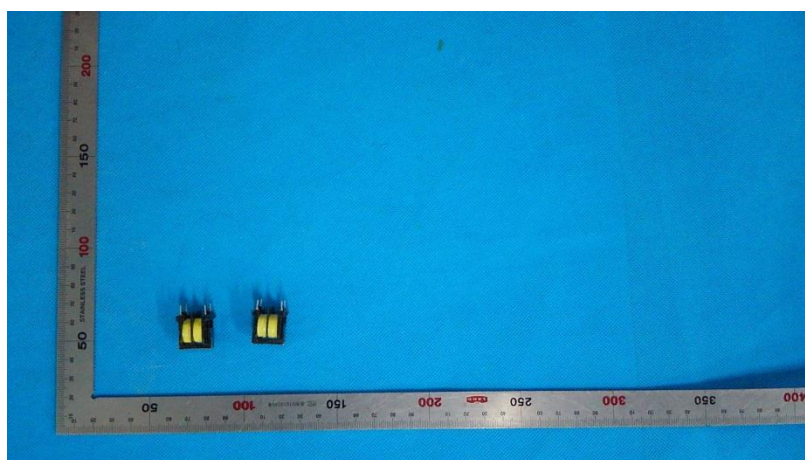
5) Halogen (F, Cl, Br and I) Content



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Report No: SZ170910363EN**Date: 2017/09/30****Tested Sample/Part Description**

Sample No.	Tested Material Description
001	UU series

Photo(s) of the sample(s)

*** End of Report ***

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