

# Test Report

Report No. RLSZE0015385802

Page 1 of 17

**Applicant** YUNG LI CO.,LTD

**Address** DA PU INDUSTRIAL ZONE,GANG ZI,CHANG PING TOWN, DONG GUAN  
CITY,GUANG DONG 523571 CHINA

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

Sample Name Please refer to the following page(s).

Part No. Please refer to the following page(s)

Sample Received Date Dec. 28, 2012

Testing Period Dec. 28, 2012 to Jan.5, 2013

**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), Red phosphorus, Perfluorooctane Sulfonates(PFOS), Tetrabromobisphenol-A (TBBP-A), Polycyclic Aromatic Hydrocarbons(PAHs) in the submitted sample(s).

**Test Method** Please refer to the following page(s).

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

Tested by

*Rick Lin*

Reviewed by

*Vargas He*

Approved by

*Danny Liu*

Date

Jan. 5, 2013

Danny Liu  
Technical Manager



No. 11033271

Centre Testing International (Shenzhen) Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

# Test Report

Report No.RLSZE0015385802

Page 2 of 17

No.	Sample Name(s)	
(1)	AC/DC POWER CORD & PLUG ADAPTERS	PVC BLACK
(2)		PVC WHITE
(3)		PVC BROWN
(4)		PVC BLUE
(5)		PVC YELLOW
(6)		PVC GREEN
(7)		PVC RED
(8)		INK
(9)		INNERBODY
(10)		CABLE COPPER
(11)		COPPER ALLOY
(12)		TERMINAL COPPER

# Test Report

Report No.RLSZE0015385802

Page 3 of 17

Part No.

YL-1861	YL-21K12	YL-2212L	YL-2615	YL-3561	YL-4614	YL-6014	YL-6100	YL-8100	YL-6112L
YL-2112	YL-21K13	YL-2214	YL-2622	YL-4500	YL-4615	YL-6014L	YL-6145	YL-8113	YL-6113L
YL-2112L	YL-21K14	YL-2215	YL-2623	YL-4512	YL-4623	YL-6015	YL-6146	YL-8115	YL-6114L
YL-2113	YL-21K15	YL-2215L	YL-2661	YL-4514	YL-4645	YL-6015L	YL-8013	YL-8121	YL-6115L
YL-2113A	YL-21K21	YL-2245	YL-3112	YL-4515	YL-4821	YL-6021	YL-8013L	YL-8122	YL-6121L
YL-2113L	YL-21K21L	YL-2246	YL-3114	YL-4523	YL-4823	YL-6021L	YL-8015	YL-8123	YL-6123
YL-2121	YL-21K22	YL-223	YL-3412	YL-4535	YL-6012	YL-6022	YL-8021	YL-2300A	YL-6135
YL-2121L	YL-21K23	YL-2300	YL-3413	YL-4546	YL-6012L	YL-6022L	YL-8022	YL-2300B	YL-2300L
YL-2135	YL-21K35	YL-2361	YL-3415	YL-4600	YL-6013	YL-6023	YL-8023	YL-3413A	YL-223
YL-2161	YL-2212	YL-2600	YL-344	YL-4612	YL-6013L	YL-6035	YL-8035	YL-2212LA	YL-6114
---	---	---	---	---	---	---	---	YL-6122L	YL-6115
YP-14	YP-23K	YP-47	YC-01	YC-12G	YC-13K	YC-18L	YC-45	YD-05	YD-18
YP-04	YP-24	YP-48	YC-04	YC-12K	YC-13L	YC-18A	YC-46	YD-06	YD-19
YP-05	YP-24K	YP-49	YC-05	YC-12L	YC-13LG	YC-19	YC-52	YD-07	YD-20
YP-20	YP-24L	YP-50	YC-05-1	YC-12T	YC-13S	YC-20	YC-53	YD-09	YD-21
YP-21	YP-25	YP-51	YC-05A	YC-12-01	YC-13W	YC-20L	YC-54	YD-10	YD-22
YP-21K	YP-26	YP-60	YC-05B	YC-12GL	YC-13F	YC-20LR	YC-55	YD-11	YD-23
YP-21A	YP-26A	YP-60L	YC-05L	YC-13	YC-14	YC-21	YC-56	YD-12	YD-24
YP-21S	YP-26B	YP-61	YC-06	YC-13A	YC-14G	YC-21A	YC-58	YD-13	YD-25
YP-21C	YP-26C	YP-62	YC-07W	YC-13B	YC-14L	YC-21L	YC-59	YD-14	YD-26
YP-21T	YP-30	YP-63	YC-08	YC-13BL	YC-14L-A	YC-22	YC-72	YD-15	YD-27
YP-21H	YP-31	YP-71	YC-09	YC-13C	YC-14GL	YC-23	YC-73	YD-16	YD-28
YP-03H	YP-34	YP-80	YC-10	YC-13D	YC-14S	YC-24	YC-77	YD-17	YD-29
YP-22	YP-38	YP-81	YC-11	YC-13E	YC-15	YC-25	YC-79	YD-17A	YD-30
YP-22K	YP-45	YP-31L	YC-12	YC-13G	YC-16	YC-25L	YC-61	YD-17B	---
YP-23	YP-46	YP-316	YC-12A	YC-13H	YC-17	YC-35	YC-12GL-3	YD-17L	---
YP-532	YP-332	YP-516	YC-12C	YC-13P	YC-18	YC-12HL	YC-12Y	YC-12SL	---
---	---	---	YC-12D	YC-13PL	YC-12LR	YC-11GL	YC-12S	---	---

# Test Report

Report No.RLSZE0015385802

Page 4 of 17

**Test Method**

Tested Item(s)	Test Method	Measured Equipment(s)	MDL
Lead (Pb)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
	IEC 62321:2008 Ed.1 Sec.9		
	IEC 62321:2008 Ed.1 Sec.10		
Cadmium (Cd)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
	IEC 62321:2008 Ed.1 Sec.9		
	IEC 62321:2008 Ed.1 Sec.10		
Mercury (Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
Hexavalent Chromium (Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis	/
	IEC 62321:2008 Ed.1 Annex C		2 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
Perfluorooctane Sulfonates(PFOS)	Refer to US EPA 3550C:2007	LC-MS-MS	5 mg/kg
Tetrabromobisphenol-A (TBBP-A)	Refer to US EPA 3540C:1996	GC-MS	5 mg/kg
Polycyclic Aromatic Hydrocarbons (PAHs)	Refer to US EPA 3550C:2007& US EPA 8270D:2007	GC-MS	0.2 mg/kg
Red phosphorus	In-house method	Pyrolyzer/GC-MS	0.1 %

# Test Report

Report No.RLSZE0015385802

Page 5 of 17

**Test Result(s)**

Tested Item(s)	Result		
	(1)	(2)	(3)
Lead (Pb)	N.D.	N.D.	N.D.
Cadmium (Cd)	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.

Tested Item(s)	Result		
	(4)	(5)	(6)
Lead (Pb)	N.D.	N.D.	N.D.
Cadmium (Cd)	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.

Tested Item(s)	Result		
	(7)	(8)	(9)
Lead (Pb)	N.D.	N.D.	8 mg/kg
Cadmium (Cd)	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	N.D.	N.D.	N.D.

Tested Item(s)	Result		
	(10)	(11)	(12)
Lead (Pb)	N.D.	20030 mg/kg	40 mg/kg
Cadmium (Cd)	N.D.	3 mg/kg	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	Negative	Negative	Negative



# Test Report

Report No.RLSZE0015385802

Page 6 of 17

**Test Result(s)**

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

# Test Report

Report No.RLSZE0015385802

Page 7 of 17

**Test Result(s)**

Tested Item(s)	Result		
	(4)	(5)	(6)
<b>Polybrominated Biphenyls(PBBs)</b>			
Monobromobiphenyl	N.D.	N.D.	N.D.
Dibromobiphenyl	N.D.	N.D.	N.D.
Tribromobiphenyl	N.D.	N.D.	N.D.
Tetrabromobiphenyl	N.D.	N.D.	N.D.
Pentabromobiphenyl	N.D.	N.D.	N.D.
Hexabromobiphenyl	N.D.	N.D.	N.D.
Heptabromobiphenyl	N.D.	N.D.	N.D.
Octabromobiphenyl	N.D.	N.D.	N.D.
Nonabromobiphenyl	N.D.	N.D.	N.D.
Decabromobiphenyl	N.D.	N.D.	N.D.
<b>Polybrominated Diphenyl Ethers(PBDEs)</b>			
Monobromodiphenyl ether	N.D.	N.D.	N.D.
Dibromodiphenyl ether	N.D.	N.D.	N.D.
Tribromodiphenyl ether	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	N.D.	N.D.	N.D.
Octabromodiphenyl ether	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	N.D.	N.D.	N.D.
Decabromodiphenyl ether	N.D.	N.D.	N.D.

# Test Report

Report No.RLSZE0015385802

Page 8 of 17

**Test Result(s)**

Tested Item(s)	Result		
	(7)	(8)	(9)
<b>Polybrominated Biphenyls(PBBs)</b>			
Monobromobiphenyl	N.D.	N.D.	N.D.
Dibromobiphenyl	N.D.	N.D.	N.D.
Tribromobiphenyl	N.D.	N.D.	N.D.
Tetrabromobiphenyl	N.D.	N.D.	N.D.
Pentabromobiphenyl	N.D.	N.D.	N.D.
Hexabromobiphenyl	N.D.	N.D.	N.D.
Heptabromobiphenyl	N.D.	N.D.	N.D.
Octabromobiphenyl	N.D.	N.D.	N.D.
Nonabromobiphenyl	N.D.	N.D.	N.D.
Decabromobiphenyl	N.D.	N.D.	N.D.
<b>Polybrominated Diphenyl Ethers(PBDEs)</b>			
Monobromodiphenyl ether	N.D.	N.D.	N.D.
Dibromodiphenyl ether	N.D.	N.D.	N.D.
Tribromodiphenyl ether	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	N.D.	N.D.	N.D.
Octabromodiphenyl ether	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	N.D.	N.D.	N.D.
Decabromodiphenyl ether	N.D.	N.D.	N.D.



# Test Report

Report No.RLSZE0015385802

Page 9 of 17

**Test Result(s)**

Tested Item(s)	Result		
	(1)	(2)	(3)
<b>Polycyclic Aromatic Hydrocarbons(PAHs)</b>			
Naphthalene	N.D.	N.D.	N.D.
Acenaphthylene	N.D.	N.D.	N.D.
Acenaphthene	N.D.	N.D.	N.D.
Fluorene	N.D.	N.D.	N.D.
Phenanthrene	N.D.	N.D.	N.D.
Anthracene	N.D.	N.D.	N.D.
Fluoranthene	N.D.	N.D.	N.D.
Pyrene	N.D.	N.D.	N.D.
Benzo[a]anthracene	N.D.	N.D.	N.D.
Chrysene	N.D.	N.D.	N.D.
Benzo[b]fluoranthene	N.D.	N.D.	N.D.
Benzo[k]fluoranthene	N.D.	N.D.	N.D.
Benzo[a]pyrene	N.D.	N.D.	N.D.
Indeno[1,2,3-cd]pyrene	N.D.	N.D.	N.D.
Dibenzo[a,h]anthracene	N.D.	N.D.	N.D.
Benzo[g,h,i]perylene	N.D.	N.D.	N.D.
Benzo[j]fluoranthene	N.D.	N.D.	N.D.
Benzo[e]pyrene	N.D.	N.D.	N.D.

# Test Report

Report No.RLSZE0015385802

Page 10 of 17

**Test Result(s)**

Tested Item(s)	Result		
	(4)	(5)	(6)
<b>Polycyclic Aromatic Hydrocarbons(PAHs)</b>			
Naphthalene	N.D.	N.D.	N.D.
Acenaphthylene	N.D.	N.D.	N.D.
Acenaphthene	N.D.	N.D.	N.D.
Fluorene	N.D.	N.D.	N.D.
Phenanthrene	N.D.	N.D.	N.D.
Anthracene	N.D.	N.D.	N.D.
Fluoranthene	N.D.	N.D.	N.D.
Pyrene	N.D.	N.D.	N.D.
Benzo[a]anthracene	N.D.	N.D.	N.D.
Chrysene	N.D.	N.D.	N.D.
Benzo[b]fluoranthene	N.D.	N.D.	N.D.
Benzo[k]fluoranthene	N.D.	N.D.	N.D.
Benzo[a]pyrene	N.D.	N.D.	N.D.
Indeno[1,2,3-cd]pyrene	N.D.	N.D.	N.D.
Dibenzo[a,h]anthracene	N.D.	N.D.	N.D.
Benzo[g,h,i]perylene	N.D.	N.D.	N.D.
Benzo[j]fluoranthene	N.D.	N.D.	N.D.
Benzo[e]pyrene	N.D.	N.D.	N.D.

# Test Report

Report No.RLSZE0015385802

Page 11 of 17

**Test Result(s)**

Tested Item(s)	Result		
	(7)	(8)	(9)
<b>Polycyclic Aromatic Hydrocarbons(PAHs)</b>			
Naphthalene	N.D.	N.D.	N.D.
Acenaphthylene	N.D.	N.D.	N.D.
Acenaphthene	N.D.	N.D.	N.D.
Fluorene	N.D.	N.D.	N.D.
Phenanthrene	N.D.	N.D.	N.D.
Anthracene	N.D.	N.D.	N.D.
Fluoranthene	N.D.	N.D.	N.D.
Pyrene	N.D.	N.D.	N.D.
Benzo[a]anthracene	N.D.	N.D.	N.D.
Chrysene	N.D.	N.D.	N.D.
Benzo[b]fluoranthene	N.D.	N.D.	N.D.
Benzo[k]fluoranthene	N.D.	N.D.	N.D.
Benzo[a]pyrene	N.D.	N.D.	N.D.
Indeno[1,2,3-cd]pyrene	N.D.	N.D.	N.D.
Dibenzo[a,h]anthracene	N.D.	N.D.	N.D.
Benzo[g,h,i]perylene	N.D.	N.D.	N.D.
Benzo[j]fluoranthene	N.D.	N.D.	N.D.
Benzo[e]pyrene	N.D.	N.D.	N.D.

# Test Report

Report No.RLSZE0015385802

Page 12 of 17

**Test Result(s)**

Tested Item(s)	Result		
	(1)	(2)	(3)
Perfluorooctane Sulfonates(PFOS)	N.D.	N.D.	N.D.
Tetrabromobisphenol-A (TBBP-A)	N.D.	N.D.	N.D.
Red phosphorus	N.D.	N.D.	N.D.

Tested Item(s)	Result		
	(4)	(5)	(6)
Perfluorooctane Sulfonates(PFOS)	N.D.	N.D.	N.D.
Tetrabromobisphenol-A (TBBP-A)	N.D.	N.D.	N.D.
Red phosphorus	N.D.	N.D.	N.D.

Tested Item(s)	Result		
	(7)	(8)	(9)
Perfluorooctane Sulfonates(PFOS)	N.D.	N.D.	N.D.
Tetrabromobisphenol-A (TBBP-A)	N.D.	N.D.	N.D.
Red phosphorus	N.D.	N.D.	N.D.

**Tested Sample/Part Description**

- (1) Black plastic grains
- (2) White plastic grains
- (3) Brown plastic grains
- (4) Blue plastic grains
- (5) Yellow plastic grains
- (6) Green plastic grains
- (7) Red plastic grains
- (8) White liquid
- (9) White plastic
- (10) Cupreous metal wire
- (11) Metal with silvery plating
- (12) Golden metal

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

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm<sup>2</sup> sample surface area used.

# Test Report

Report No. RLSZE0015385802

Page 13 of 17

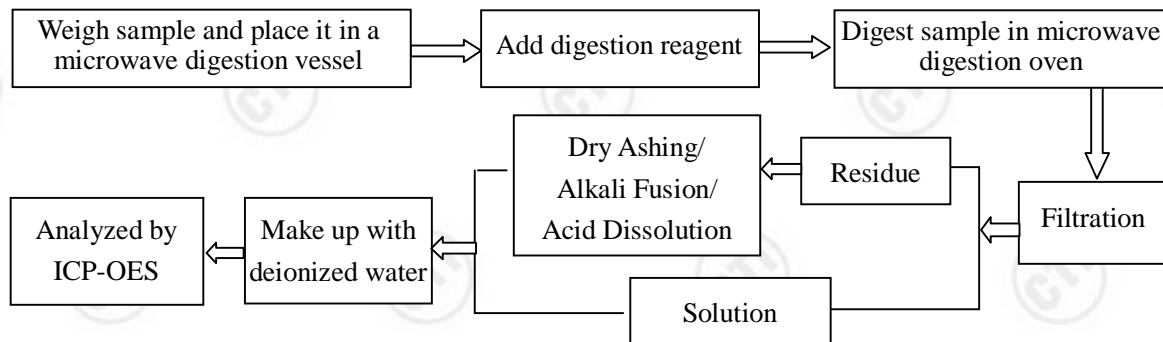
**Remark: 1. According to the client's statement, the material of sample (1)-(8),(10) in this report are the same as the sample (1)-(9) in report No. RLSZE00153858, so the test result(s) of sample (1)-(8),(10) are presented in reference to that one.**

**2. According to the client's statement, the material of sample (9), (11)-(12) in this report are the same as the sample (9), (11)-(12) in report No. RLSZE0015385801, so the test result(s) of sample (9), (11)-(12) are presented in reference to that one.**

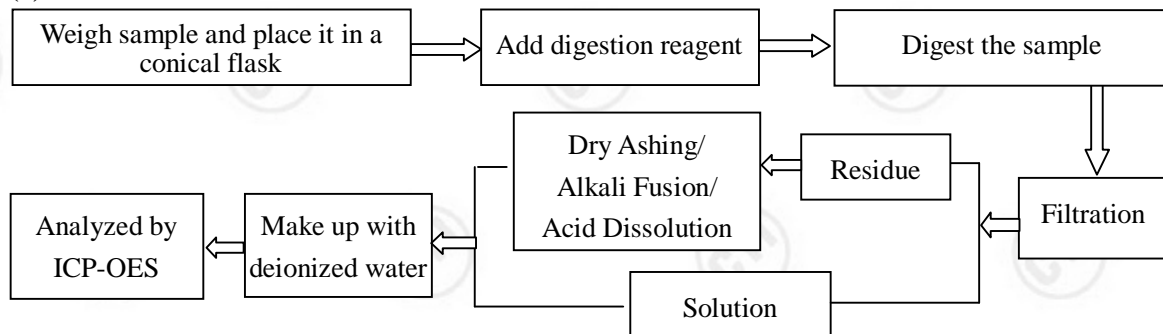
## Test Process

### 1. Lead(Pb), Cadmium(Cd)

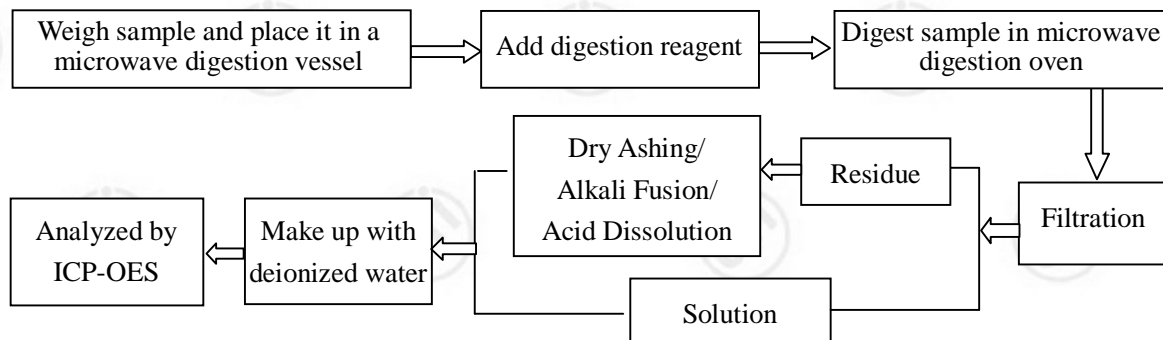
#### (1) IEC 62321:2008 Ed.1 Sec.8



#### (2) IEC 62321:2008 Ed.1 Sec.9



#### (3) IEC 62321:2008 Ed.1 Sec.10



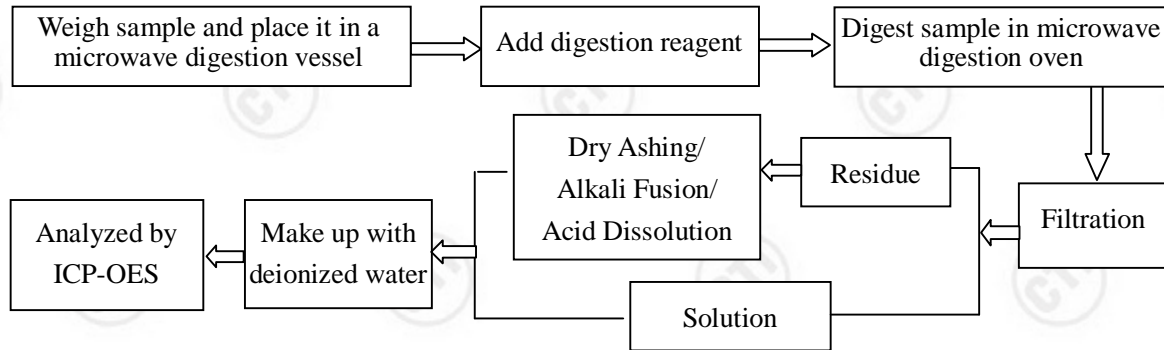


# Test Report

Report No.RLSZE0015385802

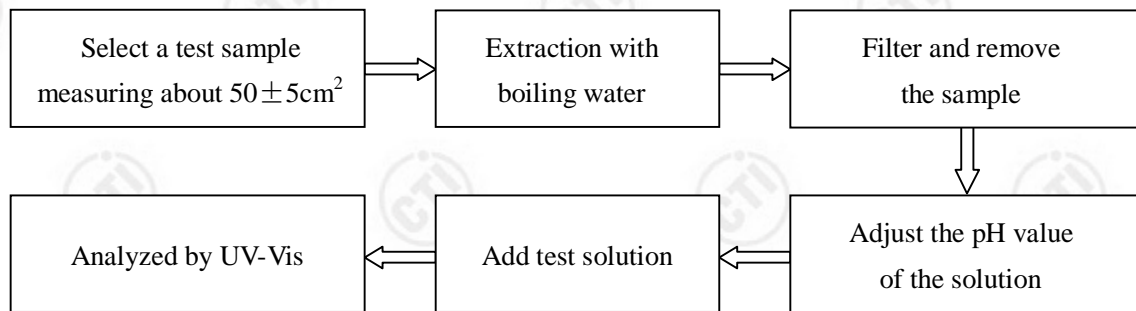
Page 14 of 17

## 2. Mercury(Hg)

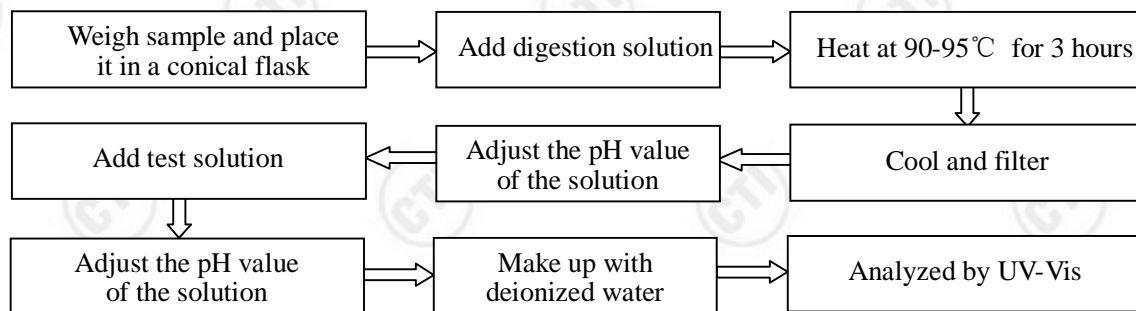


## 3. Hexavalent Chromium(Cr(VI))

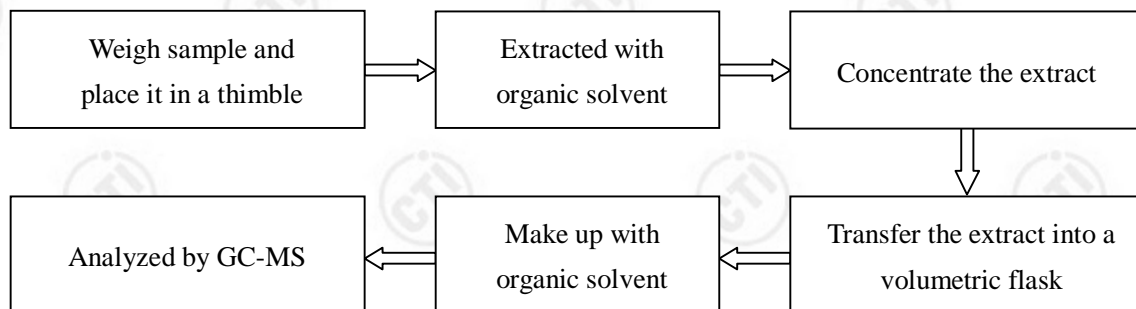
### (1) IEC 62321:2008 Ed.1 Annex B



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



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

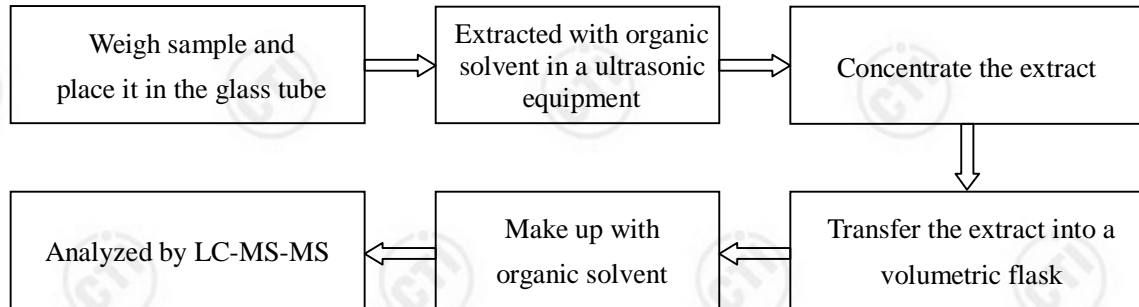


# Test Report

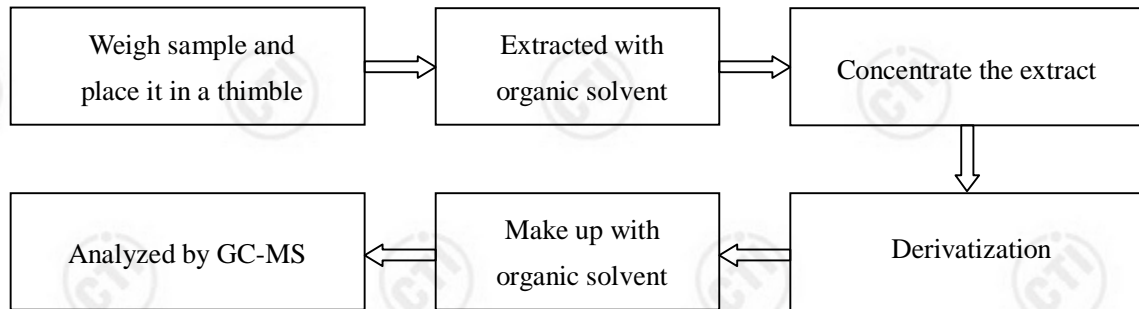
Report No.RLSZE0015385802

Page 15 of 17

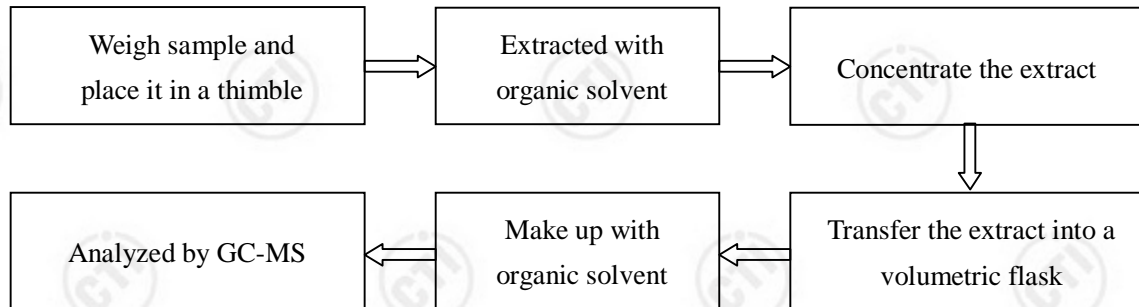
## 5. Perfluorooctane Sulfonates(PFOS)



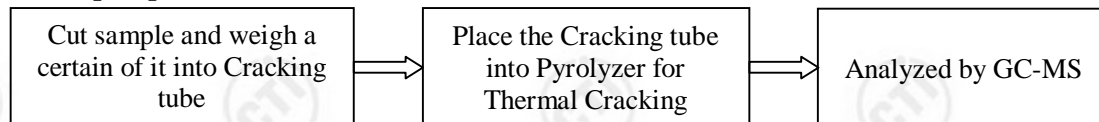
## 6. Tetrabromobisphenol-A (TBBP-A)



## 7. Polycyclic Aromatic Hydrocarbons(PAHs)



## 8. Red phosphorus



# Test Report

Report No. RLSZE0015385802

Page 16 of 17

## Photo(s) of the sample(s)

(1)



(2)



(3)



(4)



(5)



(6)



# Test Report

Report No.RLSZE0015385802

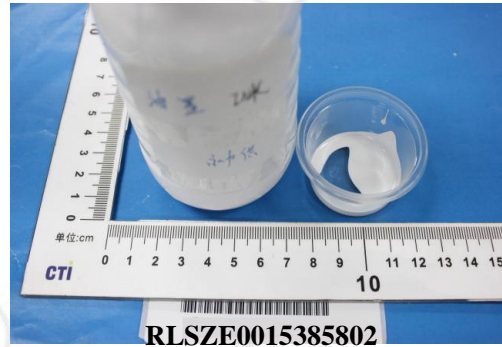
Page 17 of 17

## Photo(s) of the sample(s)

(7)



(8)



(9)



(10)



(11)



(12)



\*\*\* End of Report \*\*\*

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.