



# Test Report

Report No. A2200114253101001

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**Applicant** TXC CORPORATION

**Address** 4F,NO.16,SEC.2,CHUNG YANG S.RD.,PEITOU 112,TAIPEI,TAIWAN

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

Sample Name Light Sensors  
Client Reference Information PA122,PA224,PA22A,PA22C,PA246 SERIES  
Sample Received Date Apr. 28, 2020  
Testing Period Apr. 28, 2020 to May 11, 2020

**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), Perfluorooctane Sulfonates (PFOS), Perfluorooctanoic Acid (PFOA) in the submitted sample(s).

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

Tested by Morgan Reviewed by Ben. Huang



Approved by George Fong Date May 11, 2020  
George Fong  
Laboratory Manager

No. R392331434

Testing Center, Centre Testing International (Taiwan) Co., Ltd.

5F-6, No.9, Sec.2, Nankan Rd, Luzhu Dist., Taoyuan, Taiwan

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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
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017	UV-Vis
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Fluorine (F)	Refer to EN 14582:2016	IC
Chlorine (Cl)	Refer to EN 14582:2016	IC
Bromine (Br)	Refer to EN 14582:2016	IC
Iodine (I)	Refer to EN 14582:2016	IC
Perfluorooctane Sulfonates (PFOS)	Refer to DIN CEN/TS 15968:2010	LC-MS-MS/ LC-MS
Perfluorooctanoic Acid (PFOA)	Refer to DIN CEN/TS 15968:2010	LC-MS-MS/ LC-MS

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**Test Result(s)**

Tested Item(s)	Result	MDL
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg

Tested Item(s)	Result	MDL
<b>Polybrominated Biphenyls(PBBs)</b>		
Monobromodiphenyl	N.D.	5 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

Tested Item(s)	Result	MDL
<b>Polybrominated Diphenyl Ethers(PBDEs)</b>		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromobiphenyl ether	N.D.	5 mg/kg
Tribromobiphenyl ether	N.D.	5 mg/kg
Tetrabromobiphenyl ether	N.D.	5 mg/kg
Pentabromobiphenyl ether	N.D.	5 mg/kg
Hexabromobiphenyl ether	N.D.	5 mg/kg
Heptabromobiphenyl ether	N.D.	5 mg/kg
Octabromobiphenyl ether	N.D.	5 mg/kg
Nonabromobiphenyl ether	N.D.	5 mg/kg
Decabromobiphenyl ether	N.D.	5 mg/kg

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Tested Item(s)	Result	MDL
<b>Phthalates</b>		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Benzylbutyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-2-ethylhexyl phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg

Tested Item(s)	Result	MDL
Perfluorooctane Sulfonates (PFOS)#	N.D.	0.01mg/kg
Perfluorooctanoic Acid (PFOA)#	N.D.	0.01mg/kg

Tested Item(s)	Result	MDL
Fluorine (F)	N.D.	10 mg/kg
Chlorine (Cl)	N.D.	10 mg/kg
Bromine (Br)	N.D.	10 mg/kg
Iodine (I)	N.D.	10 mg/kg

**Sample/Part Description**

Mixed test, electronic components

**Remark:** The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.  
As specified by client, the test was conducted by mixing several samples together. 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

**Note:** “ # ” indicates the testing item(s) was (were) fulfilled by Centre Testing International Pinbiao (Shanghai) Co., Ltd.

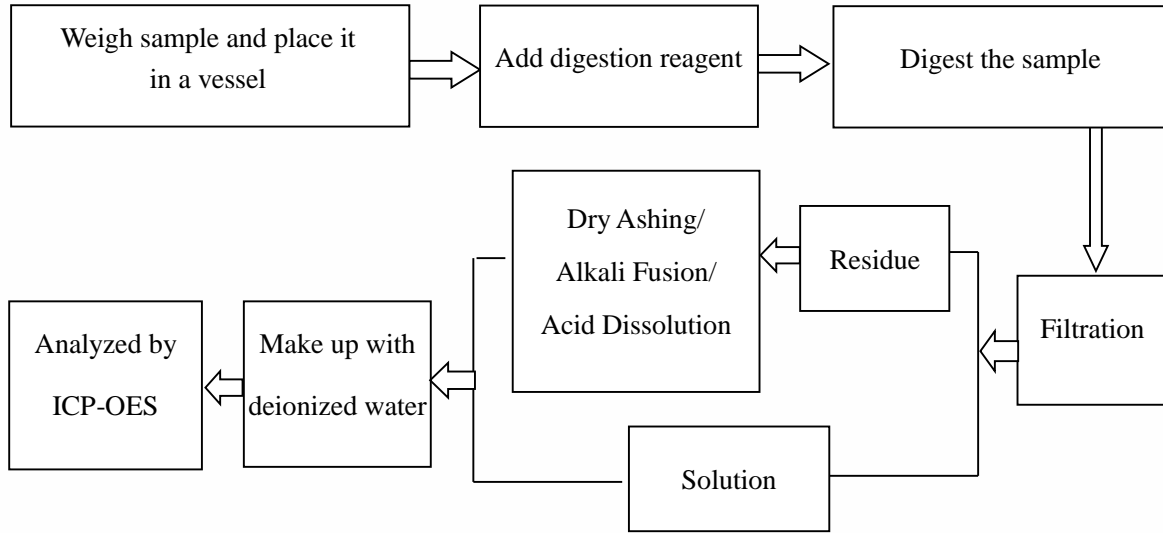
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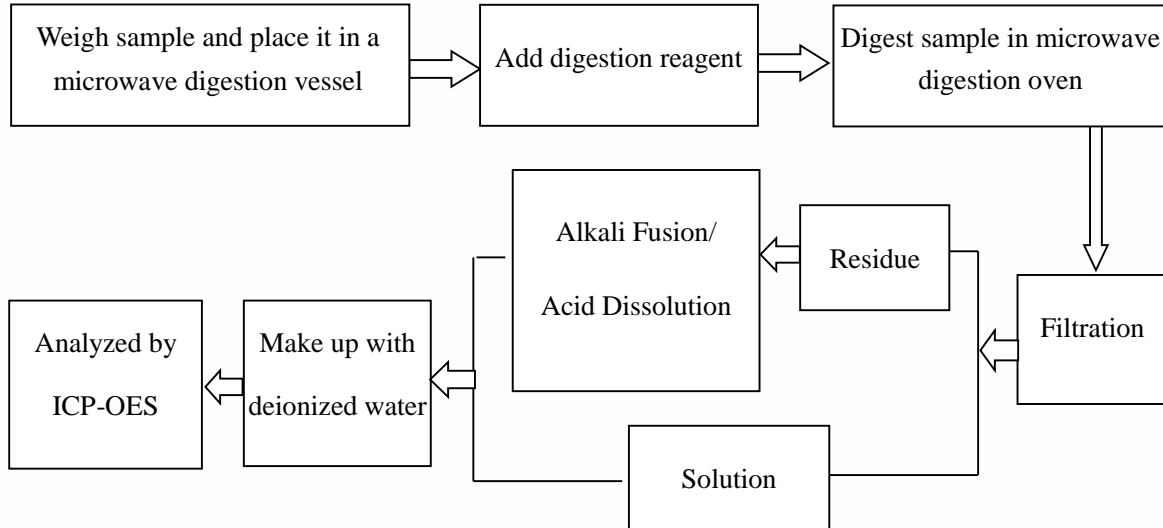
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## Test Process

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



### 2. Mercury(Hg)

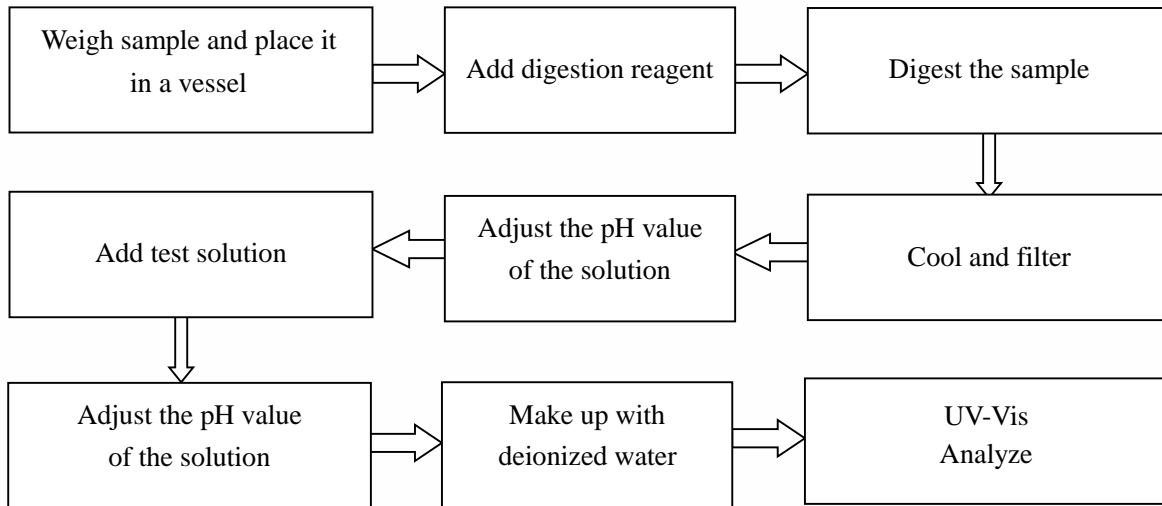


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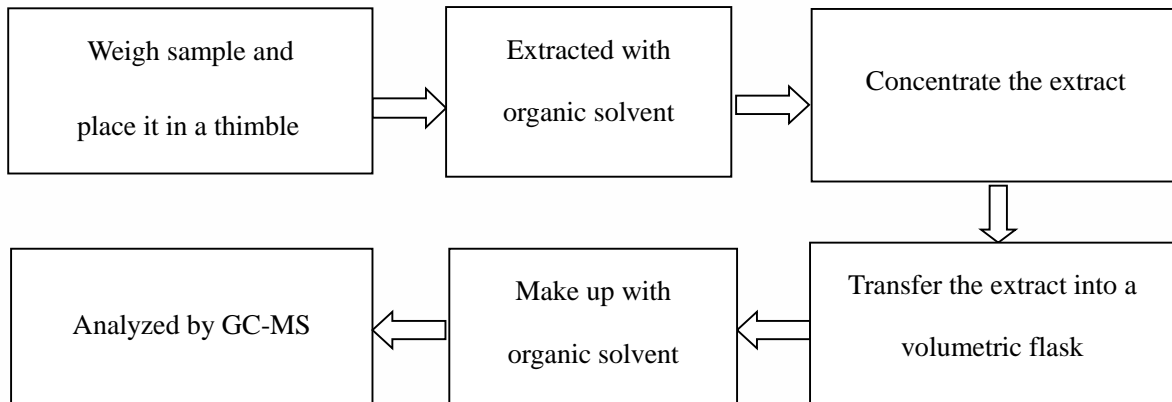
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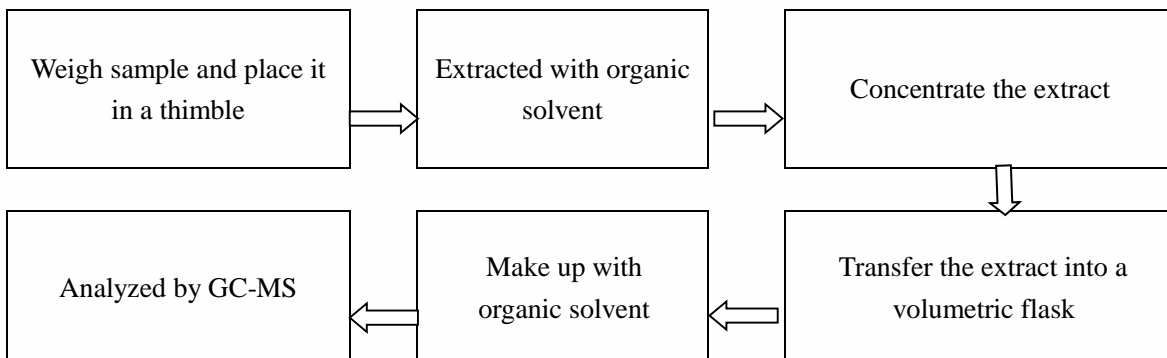
## 3. Hexavalent Chromium(Cr(VI))



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



## 5. Phthalates

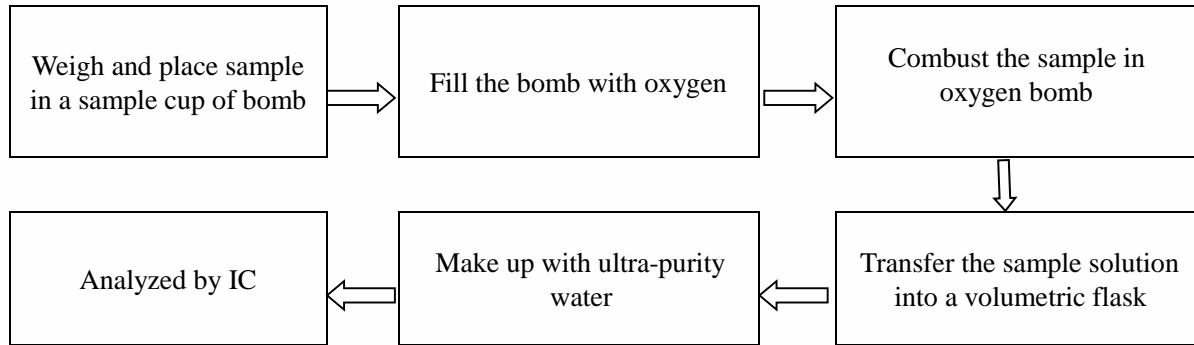


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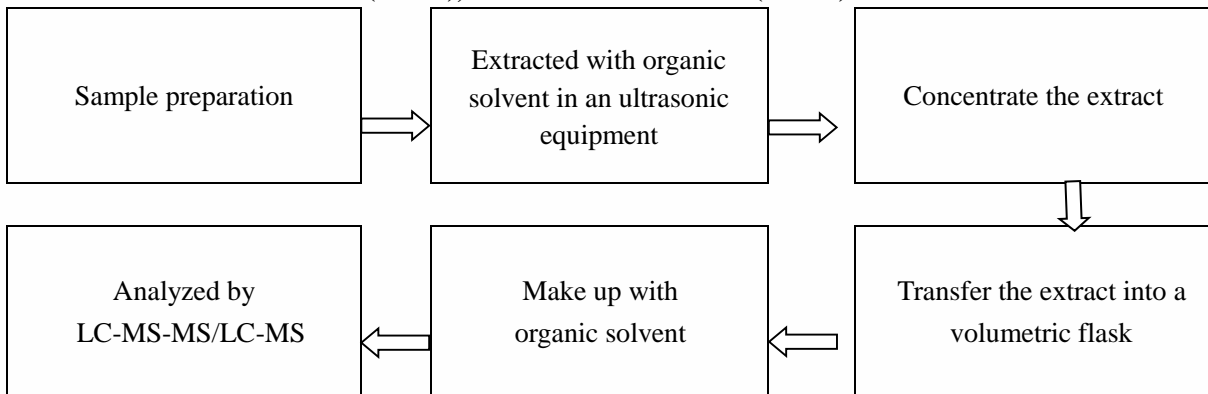
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## 6. Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)



## 7. Perfluorooctane Sulfonates (PFOS), Perfluorooctanoic Acid (PFOA)

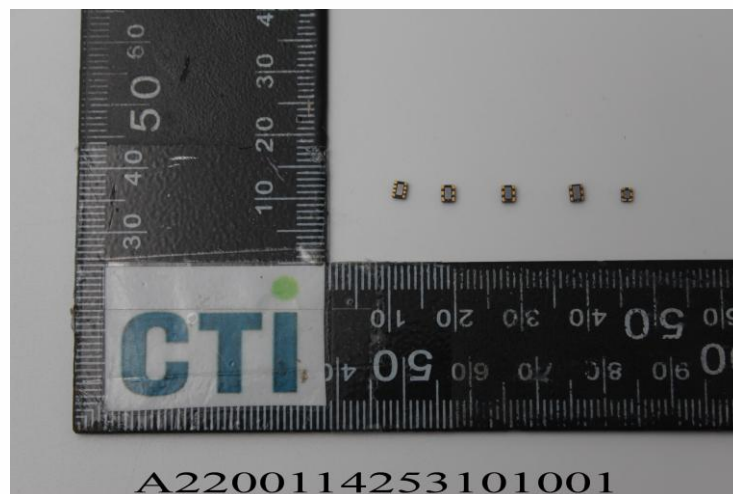
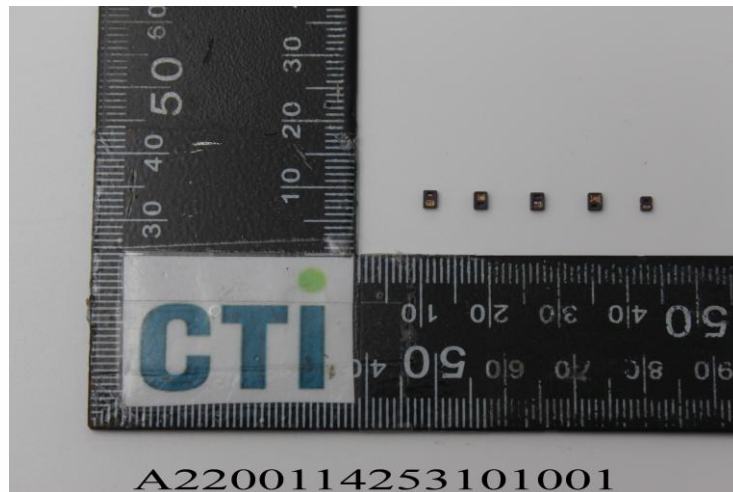


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## Photo(s) of the sample(s)



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

### Statement :

1. This report is considered invalidated without approval signature, special seal and the seal on the perforation;
2. The sample(s) and sample information was/were provided by the client 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;
4. Without written approval of CTI, this report can't be reproduced except in full;