

Test Report

Report No.: U01602191122304E

Query Password: QW0848

Date: Dec. 13, 2019


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Applicant: Decade Smart Technology Co., Ltd**Contact information:** 3F, Building 5th, Haomai Hi-Tech Technology Park, Huating Road, Dalang Zone,
Longhua District, Shenzhen, China**The following sample(s) was (were) submitted and identified by client as:**

Sample Description : Smart watch
Model No. : SN58-H
Series Model : SN58
Manufacturer : Decade Smart Technology Co., Ltd
Address : 3F, Building 5th, Haomai Hi-Tech Technology Park, Huating Road, Dalang
Zone, Longhua District, Shenzhen, China
Sample Received Date : Nov. 22, 2019
Testing Period : From Nov. 22, 2019 to Dec. 13, 2019
Test Request : Please refer to next page(s).
Test Result(s) : Please refer to next page(s).

Signed for and on behalf of Shen Zhen UONE Test Co., LTD.

Prepared by



Anna Li

Checked by



Nora Deng

Approved by



Pascal Shi

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Summary of Test Results (Tested parts are required partially by client):**TEST REQUEST****CONCLUSION**

RoHS Directive 2011/65/EU and its subsequent amendments & Directive (EU) 2015/863

To determine Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)),

(1) Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)
content by screening test and chemical test**PASS**

(2) To determine Phthalates (DBP, BBP, DEHP, DIBP) content by chemical test

PASS

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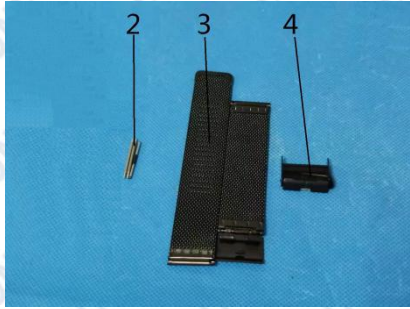

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Test Material List

Material No.	Description (Location)	Photo(s) of tested materials
1	Silvery solder (plug,connecting line)	
2	Silvery metal axle (watchband)	
3	Silvery metal with black coating (watchband)	
4	Silvery metal buckle with black coating (watchband)	
5	Silvery metal with black coating (shell)	
6	Black plastic (shell)	
7	Transparent glass with black coating (shell)	
8	Silvery magnet block (shell)	
9	Golden metal base (shell)	
10	Silvery metal pin (shell)	
11	Silvery metal spring (shell)	
12	Silvery metal screw with black coating (shell)	
13	Black translucent film with glue (viewing screen)	
14	Black translucent glass (viewing screen)	
15	Black dry glue (viewing screen)	
16	Transparent plastic film with glue (viewing screen)	
17	Black transparent glass with black coating (viewing screen)	
18	Brown FPCB (viewing screen)	

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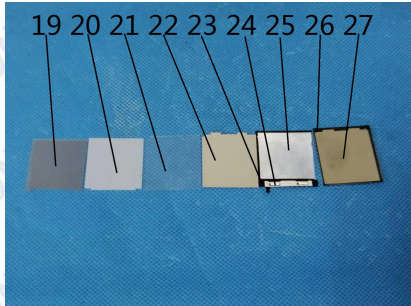
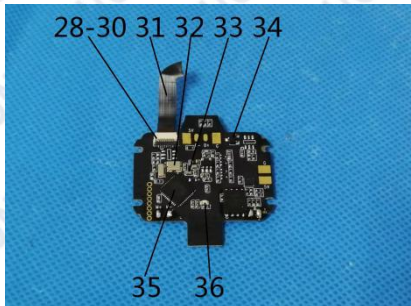
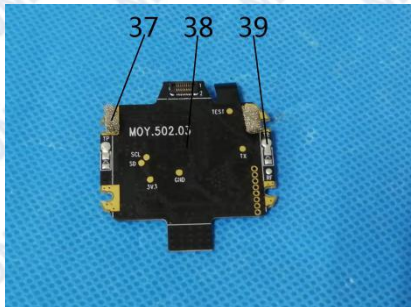
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Material No.	Description (Location)	Photo(s) of tested materials
19	Silvery translucent plastic film (viewing screen)	
20	White plastic film (viewing screen)	
21	Transparent plastic sheet (viewing screen)	
22	Silvery plastic film (viewing screen)	
23	Black plastic film with glue (viewing screen)	
24	White body (led,viewing screen)	
25	White translucent plastic film (viewing screen)	
26	Black plastic frame (viewing screen)	
27	Silvery metal sheet (viewing screen)	
28	Beige plastic frame (socket,PCB)	
29	Black plastic block (socket,PCB)	
30	Silvery metal pin (socket,PCB)	
31	Black FPCB (PCB)	
32	Silvery body (crystal oscillator,PCB)	
33	Brown body (capacitance,PCB)	
34	Black body (EC,PCB)	
35	Black body (IC,PCB)	
36	White body (led,PCB)	
37	Golden foam (PCB)	
38	Black PCB (PCB)	
39	Silvery solder (PCB)	

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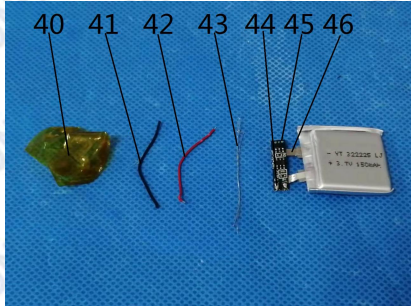
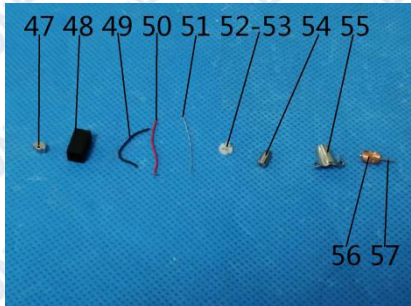
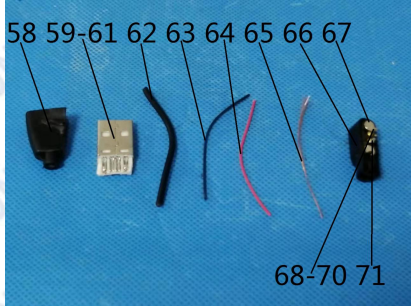
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Material No.	Description (Location)	Photo(s) of tested materials
40	Yellow plastic film (battery)	 <p>40 41 42 43 44 45 46</p>
41	Black plastic wire jacket (battery)	
42	Red plastic wire jacket (battery)	
43	Silvery metal wire (battery)	
44	Silvery solder (battery)	
45	Green PCB (battery)	
46	Silvery metal sheet (battery)	
47	Silvery metal block (motor)	 <p>47 48 49 50 51 52 53 54 55 56 57</p>
48	Black soft plastic jacket (motor)	
49	Black plastic wire jacket (motor)	
50	Red plastic wire jacket (motor)	
51	Silvery metal wire (motor)	
52	White plastic cap (motor)	
53	Silvery metal sheet (motor)	
54	Silvery magnet block (motor)	
55	Silvery metal shell (motor)	
56	Coppery metal coil (motor)	
57	Silvery metal axle (motor)	
58	Black plastic jacket (USB plug,connecting line)	 <p>58 59-61 62 63 64 65 66 67 68-70 71</p>
59	Silvery metal frame (USB plug,connecting line)	
60	White plastic pin holder (USB plug,connecting line)	
61	Silvery metal pin (USB plug,connecting line)	
62	Black plastic wire jacket (connecting line)	
63	Black plastic wire jacket (connecting line)	
64	Red plastic wire jacket (connecting line)	
65	Coppery metal wire (connecting line)	
66	Black plastic shell (plug,connecting line)	
67	Silvery magnet block (plug,connecting line)	

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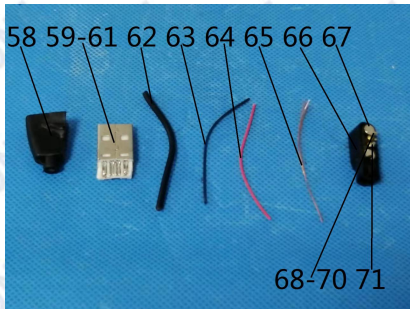
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Material No.	Description (Location)	Photo(s) of tested materials
68	Golden metal base (plug,connecting line)	
69	Silvery metal spring (plug,connecting line)	
70	Silvery metal pin (plug,connecting line)	

Test Result(s):

(1) Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)

Test Method: IEC62321-3-1: 2013, IEC62321-4: 2013+A1:2017, IEC62321-5: 2013, IEC62321-6: 2015, IEC 62321-7-1:2015, IEC 62321-7-2: 2017, analyzed by EDXRF & ICP-OES & GC-MS & UV-Vis.

No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	Conclusion
	Pb	Cd	Hg	Cr	Br			
1	BL	BL	BL	BL	NA	—	—	PASS
2	BL	BL	BL	X	NA	Cr(VI):Negative	—	PASS
3	BL	BL	BL	X	NA	Cr(VI):Negative	—	PASS
4	BL	BL	BL	X	NA	Cr(VI):Negative	—	PASS
5	BL	BL	BL	X	NA	Cr(VI):Negative	—	PASS
6	BL	BL	BL	BL	BL	—	—	PASS
7	BL	BL	BL	BL	BL	—	—	PASS
8	BL	BL	BL	BL	NA	—	—	PASS
9	OL	BL	BL	BL	NA	Pb: 24110#	Copper alloy	PASS
10	BL	BL	BL	BL	NA	—	—	PASS
11	BL	BL	BL	BL	NA	—	—	PASS
12	BL	BL	BL	BL	NA	—	—	PASS
13	BL	BL	BL	BL	BL	—	—	PASS
14	BL	BL	BL	BL	BL	—	—	PASS

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No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	Conclusion
	Pb	Cd	Hg	Cr	Br			
15	BL	BL	BL	BL	BL	—	Dec. 9, 2019	PASS
16	BL	BL	BL	BL	BL	—	—	PASS
17	BL	BL	BL	BL	BL	—	—	PASS
18	BL	BL	BL	BL	BL	—	—	PASS
19	BL	BL	BL	BL	BL	—	—	PASS
20	BL	BL	BL	BL	BL	—	—	PASS
21	BL	BL	BL	BL	BL	—	—	PASS
22	BL	BL	BL	BL	BL	—	—	PASS
23	BL	BL	BL	BL	BL	—	—	PASS
24	BL	BL	BL	BL	BL	—	—	PASS
25	BL	BL	BL	BL	BL	—	—	PASS
26	BL	BL	BL	BL	BL	—	—	PASS
27	BL	BL	BL	BL	NA	—	—	PASS
28	BL	BL	BL	BL	BL	—	—	PASS
29	BL	BL	BL	BL	BL	—	—	PASS
30	BL	BL	BL	BL	NA	—	—	PASS
31	BL	BL	BL	BL	BL	—	—	PASS
32	BL	BL	BL	BL	BL	—	—	PASS
33	BL	BL	BL	BL	BL	—	—	PASS
34	BL	BL	BL	BL	BL	—	—	PASS
35	BL	BL	BL	BL	BL	—	—	PASS
36	BL	BL	BL	BL	BL	—	—	PASS
37	BL	BL	BL	BL	BL	—	—	PASS
38	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
39	BL	BL	BL	BL	NA	—	—	PASS
40	BL	BL	BL	BL	BL	—	—	PASS

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No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	Conclusion
	Pb	Cd	Hg	Cr	Br			
41	BL	BL	BL	BL	BL	—	—	PASS
42	BL	BL	BL	BL	BL	—	—	PASS
43	BL	BL	BL	BL	NA	—	—	PASS
44	BL	BL	BL	BL	NA	—	—	PASS
45	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
46	BL	BL	BL	BL	NA	—	—	PASS
47	BL	BL	BL	BL	NA	—	—	PASS
48	BL	BL	BL	BL	BL	—	—	PASS
49	BL	BL	BL	BL	BL	—	—	PASS
50	BL	BL	BL	BL	BL	—	—	PASS
51	BL	BL	BL	BL	NA	—	—	PASS
52	BL	BL	BL	BL	BL	—	—	PASS
53	BL	BL	BL	BL	NA	—	—	PASS
54	BL	BL	BL	BL	NA	—	—	PASS
55	BL	BL	BL	BL	NA	—	—	PASS
56	BL	BL	BL	BL	NA	—	—	PASS
57	BL	BL	BL	X	NA	Cr(VI):Negative	—	PASS
58	BL	BL	BL	BL	BL	—	—	PASS
59	BL	BL	BL	BL	NA	—	—	PASS
60	BL	BL	BL	BL	BL	—	—	PASS
61	BL	BL	BL	BL	NA	—	—	PASS
62	BL	BL	BL	BL	BL	—	Dec. 9, 2019	PASS
63	BL	BL	BL	BL	BL	—	Dec. 9, 2019	PASS
64	BL	BL	BL	BL	BL	—	Dec. 9, 2019	PASS
65	BL	BL	BL	BL	NA	—	—	PASS
66	BL	BL	BL	BL	BL	—	—	PASS

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No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	Conclusion
	Pb	Cd	Hg	Cr	Br			
67	BL	BL	BL	BL	NA	—	—	PASS
68	OL	BL	BL	BL	NA	Pb: 19240 [#]	Copper alloy	PASS
69	BL	BL	BL	BL	NA	—	—	PASS
70	BL	BL	BL	BL	NA	—	—	PASS

Remark:

(1) ①Results are obtained by EDXRF for primary screening, and further wet chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).

②OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.

③The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	NA	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

Units and limits in EU RoHS Directive 2011/65/EU:

Element	Pb	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit	1000	100	1000	1000	1000	1000

(2) ① mg/kg = ppm = 0.0001%, N.D. = Not Detected (Less than RL).

②Unit and RL (Report limit) in wet chemical test.

Element	Pb	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RL	2	2	2	2	5	5

③According to IEC 62321-7-1:2015, result on Cr(VI) for metal sample is shown as Positive/Negative.

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Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

Storage condition and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

④ According to IEC 62321-3-1:2013, this column represents the results of wet chem test.

(3) This column represents the exempted decoration of material or other related testing sample's information.

① According to the declaration from the client, Lead in specimen(s) is exempted by EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863 base on:

Copper alloy containing up to 4 % lead by weight.

② The test result(s) of Material No. 15, No. 62 - No.64 is(are) shown retest result, and the retest sample(s) was(were) provided by client on Dec. 9, 2019.

(2) Phthalates (DBP, BBP, DEHP, DIBP) content

Test Method: IEC 62321-8: 2017, analyzed by gas chromatographic- mass spectrometer (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	
RL (mg/kg)	30	30	30	30	
Material No.	Result (mg/kg)				
1	N.D.	N.D.	N.D.	N.D.	PASS
6	N.D.	N.D.	106	N.D.	PASS
13	N.D.	N.D.	N.D.	N.D.	PASS
15	881	N.D.	N.D.	N.D.	PASS
16	N.D.	N.D.	N.D.	N.D.	PASS
19	N.D.	N.D.	N.D.	N.D.	PASS
20	N.D.	N.D.	N.D.	N.D.	PASS
21	N.D.	N.D.	N.D.	N.D.	PASS
22	N.D.	N.D.	N.D.	N.D.	PASS
23	N.D.	N.D.	N.D.	N.D.	PASS
24	N.D.	N.D.	N.D.	N.D.	PASS
25	N.D.	N.D.	N.D.	N.D.	PASS

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Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	
RL (mg/kg)	30	30	30	30	
Material No.	Result (mg/kg)				Conclusion
26	N.D.	N.D.	N.D.	N.D.	
28	N.D.	N.D.	N.D.	N.D.	
29	N.D.	N.D.	N.D.	N.D.	
37	N.D.	N.D.	N.D.	N.D.	
40	N.D.	N.D.	N.D.	N.D.	
41	N.D.	N.D.	N.D.	N.D.	
42	N.D.	N.D.	N.D.	N.D.	
48	N.D.	N.D.	N.D.	N.D.	
49	N.D.	N.D.	N.D.	N.D.	
50	N.D.	N.D.	N.D.	N.D.	
52	N.D.	N.D.	N.D.	N.D.	
58	133	N.D.	483	N.D.	
60	N.D.	N.D.	N.D.	N.D.	
62	N.D.	N.D.	N.D.	N.D.	
63	N.D.	N.D.	N.D.	N.D.	
64	N.D.	N.D.	N.D.	N.D.	
66	N.D.	N.D.	N.D.	N.D.	

Note:

1. mg/kg = milligram per kilogram (ppm).
2. RL = report limit.
3. N.D.=not detected(less than RL).
4. The test result(s) of Material No. 15, No. 62 - No.64 is(are) shown retest result, and the retest sample(s) was(were) provided by client on Dec. 9, 2019.

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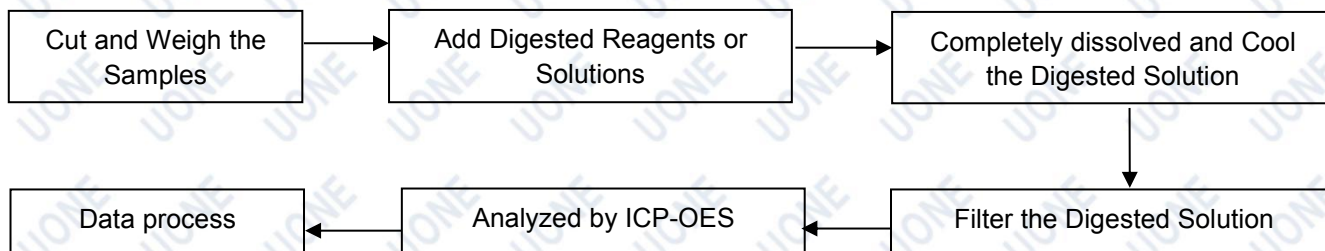
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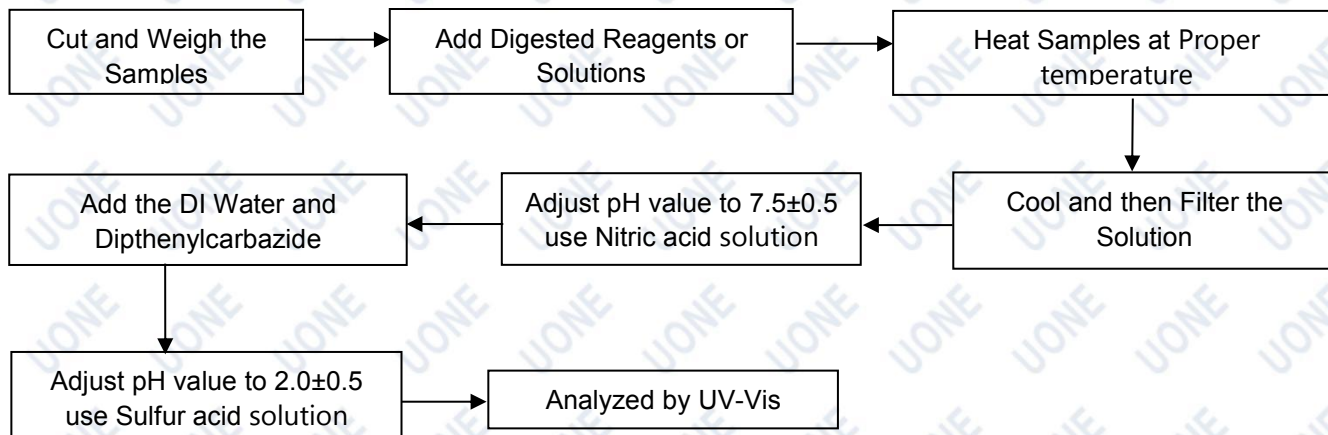
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Test Process Flow

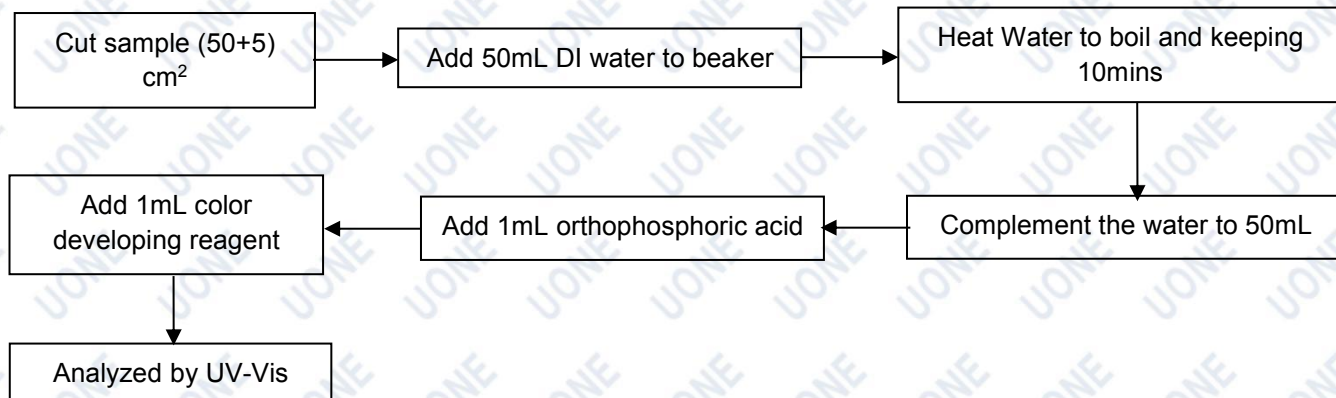
1. Lead, Cadmium, Mercury



2. Hexavalent Chromium (Non-metal)



Hexavalent Chromium (Metal)



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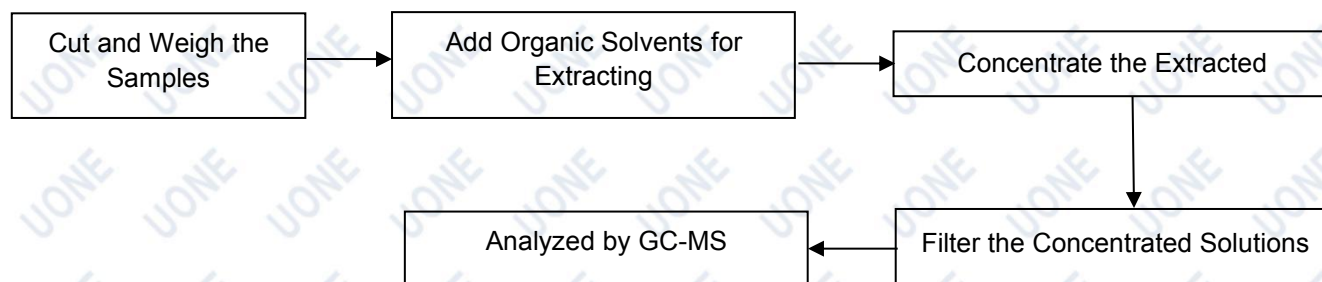
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Test Process Flow (Continued):

3. PBBs & PBDEs, Phthalates

**Photo(s) of Sample:*******End of Report*****

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