

Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019


Page 1 of 24

Applicant: SHENZHEN ATTEN TECHNOLOGY CO., LTD.**Contact information:** 8F, Building 2, Senyang High-tech Park, 7 West Road High-tech Park, Guangming New District, Shenzhen, China.**The following sample(s) was (were) submitted and identified by client as:**

Sample Name : AT-858D
Model No. : AT-8586
Sample Received Date : May 7, 2019
Testing Period : From May 7, 2019 to May 17, 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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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 2 of 24

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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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 3 of 24

Test Material List

Material No.	Description (Location)	Photo(s) of tested materials
1	Silvery metal(screw, accessory)	
2	Silvery metal(plate, accessory)	
3	Silvery magnet(core, accessory)	
4	Translucent glue(sticker, accessory)	
5	Black plastic(support, accessory)	
6	Silvery metal(head, accessory)	
7	White plastic(frame, power cable)	
8	Golden metal(connector, power cable)	
9	Black plastic(shell, power cable)	
10	Golden metal with silvery plating(connector, power cable)	
11	Golden metal with silvery plating(pin, power cable)	
12	Black plastic(frame, power cable)	
13	Black plastic(shell, power cable)	
14	Blue soft plastic(wire jacket, power cable)	
15	Coffee soft plastic(wire jacket, power cable)	
16	Yellow/green soft plastic(wire jacket, power cable)	
17	Coppery metal(wire, power cable)	
18	Black soft plastic(cable jacket, power cable)	
19	Silvery metal with black coating(screw, at-858d)	
20	Black soft plastic(cushion, at-858d)	
21	Black plastic(frame, at-858d)	
22	Silvery adhesive plastic with black coating(label, at-858d)	
23	Golden adhesive plastic with black printing(label, at-858d)	
24	White adhesive plastic with black printing(label, at-858d)	
25	Silvery metal with black coating(shell, at-858d)	

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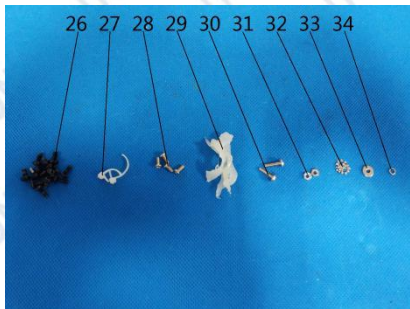
Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 4 of 24

Material No.	Description (Location)	Photo(s) of tested materials
26	Silvery metal with black coating(screw, at-858d)	 <p>Photograph showing materials 26 through 34, including screws, nuts, gaskets, and glue, arranged on a blue background with numbered labels.</p>
27	Beige plastic(cable tie, at-858d)	
28	Silvery metal(screw, at-858d)	
29	Translucent glue(sticker, at-858d)	
30	Silvery metal(screw, at-858d)	
31	Silvery metal(nut, at-858d)	
32	Silvery metal(gasket, at-858d)	
33	Silvery metal(gasket, at-858d)	
34	Silvery metal(gasket, at-858d)	
35	Silvery metal(screw, heat gun)	
36	White plastic(cable tie, heat gun)	
37	Black soft plastic(tube, heat gun)	
38	Black plastic(tube, heat gun)	
39	Black plastic(shell, heat gun)	
40	Black soft plastic(cable jacket, cable, heat gun)	
41	White paper(film, cable, heat gun)	
42	White fabric(string, cable, heat gun)	
43	Black soft plastic(sr, cable, heat gun)	
44	Black plastic(sr, cable, heat gun)	
45	Silvery metal(connector, cable, heat gun)	
46	Yellow/green soft plastic(wire jacket, cable, heat gun)	
47	Black soft plastic(wire jacket, cable, heat gun)	
48	White plastic(holder, cable, heat gun)	
49	Silvery metalterminal, cable, heat gun)	
50	Red soft plastic(wire jacket, cable, heat gun)	
51	Blue soft plastic(wire jacket, cable, heat gun)	
52	Yellow soft plastic(wire jacket, cable, heat gun)	
53	Coffee soft plastic(wire jacket, cable, heat gun)	

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 5 of 24

Material No.	Description (Location)	Photo(s) of tested materials	
54	White soft plastic(wire jacket, cable, heat gun)		
55	Orange soft plastic(wire jacket, cable, heat gun)		
56	White plastic(holder, cable, heat gun)		
57	Silvery metal(pin, PCB, heat gun)		
58	Black soft plastic(sleeve, PCB, heat gun)		
59	Transparent glass(shell, PCB, heat gun)		
60	Black soft plastic(wire jacket,PCB, heat gun)		
61	Black soft plastic with white printing(wire jacket, PCB, heat gun)		
62	Green PCB(heat gun)		
63	Silvery solder(PCB, heat gun)		
64	Silvery metal(tube, heat gun)		
65	Silvery/grey paper(film, heat gun)		
66	Grey soft plastic(sleeve, heat gun)		
67	White soft plastic(wire jacket, heat gun)		
68	Transparent soft plastic(sleeve, heat gun)		
69	Red soft plastic(wire jacket, heat gun)		
70	Yellow soft plastic(sleeve, heat gun)		
71	White body(temperature sensor, heat gun)		
72	White fabric(sleeve, heat gun)		
73	Golden metal(tie, heat gun)		
74	White ceramic shaft, heat gun)		
75	Grey paper(sheet, heat gun)		
76	Silvery metal(spring, heat gun)		

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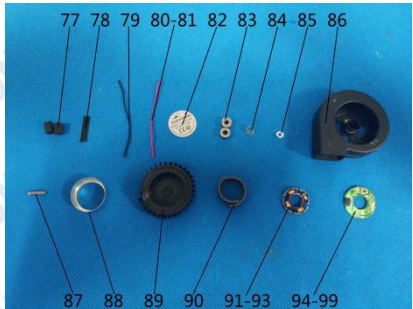
Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 6 of 24

Material No.	Description (Location)	Photo(s) of tested materials
77	Black adhesive foam(cushion, fan)	
78	Black adhesive fabric(tape, fan)	
79	Black soft plastic(wire jacket, fan)	
80	Red soft plastic(wire jacket, fan)	
81	Coppery metal with silvery plating(wire, fan)	
82	Silvery adhesive plastic with black printing(label, fan)	
83	Silvery metal(bearing, fan)	
84	Silvery metal(spring, fan)	
85	White plastic(gasket, fan)	
86	Black plastic(shell, fan)	
87	Silvery metal(shaft, fan)	
88	Silvery metal(housing, fan)	
89	Black plastic(blade, fan)	
90	Black soft magnet(core, fan)	
91	Coppery metal(coil, fan)	
92	Silvery metal(plate, fan)	
93	Black plastic(insulator, fan)	
94	Black body(ic, PCB, fan)	
95	Black body(resistor, PCB, fan)	
96	Brown body(capacitor, PCB, fan)	
97	Black body(diode, PCB, fan)	
98	Green PCB(fan)	
99	Silvery solder(PCB, fan)	

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 7 of 24

Material No.	Description (Location)	Photo(s) of tested materials
100	Red soft plastic(wire jacket, power plug)	
101	Yellow/green soft plastic(wire jacket, power plug)	
102	Silvery metal(connector, power plug)	
103	White plastic(holder, power plug)	
104	Translucent soft plastic(sleeve, power plug)	
105	Silvery metal(edge, fuse, power plug)	
106	Transparent glass(shell, fuse, power plug)	
107	Silvery metal(wire, fuse, power plug)	
108	Golden metal with silvery plating(pin, power plug)	
109	Golden metal with silvery plating(connector, power plug)	
110	Black plastic(shell, power plug)	
111	White plastic(holder, power switch)	
112	Red soft plastic(wire jacket, power switch)	
113	Silvery metal(connector, power switch)	
114	Blue soft plastic(sleeve, power switch)	
115	Black plastic with white printing(button, power switch)	
116	Black plastic(tube, power switch)	
117	Dull silvery metal(spring, power switch)	
118	Coppery metal with silvery plating(contact, power switch)	
119	Silvery metal(connector, power switch)	
120	Silvery metal(connector, power switch)	
121	Black plastic(shell, power switch)	

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 8 of 24

Material No.	Description (Location)	Photo(s) of tested materials
122	Transparent adhesive plastic with white coating(label, at-858d)	
123	Silvery metal(boss, at-858d)	
124	Silvery metal(shell, at-858d)	
125	Transparent glue(sticker, screen, PCB)	
126	White plastic(shell, screen)	
127	Black PCB(screen)	
128	Blue body(ec, PCB)	
129	Black plastic(hand knob, PCB)	
130	Silvery metal(nut, hand knob, PCB)	
131	Black soft plastic(gasket, hand knob, PCB)	
132	Brown plastic(sheet, hand knob, PCB)	
133	White plastic(foil holder, hand knob, PCB)	
134	Silvery metal(foil, hand knob, PCB)	
135	Silvery metal(shell, hand knob, PCB)	
136	Silvery metal(tube, hand knob, PCB)	
137	Silvery metal(shaft, hand knob, PCB)	
138	Silvery metal(radiator, PCB)	
139	Blue plastic(button, switch, PCB)	
140	Silvery metal(cover, switch, PCB)	
141	Black plastic(button, switch, PCB)	
142	Silvery metal(foil, switch, PCB)	
143	Black plastic(base, switch, PCB)	
144	Silvery metal(connector, switch, PCB)	

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 9 of 24

Material No.	Description (Location)	Photo(s) of tested materials
145	White body(ic, PCB)	
146	Black body(triode, PCB)	
147	Red body(capacitor, PCB)	
148	White plastic(pin holder, PCB)	
149	Golden metal with silvery plating(pin, PCB)	
150	Grey body with multicolor printing(resistor, PCB)	
151	Yellow body(capacitor, PCB)	
152	White plastic(pin holder, PCB)	
153	Black plastic(base, capacitor, PCB)	
154	Silvery metal with black coating(shell, capacitor, PCB)	
155	Black soft rubber(base, capacitor, PCB)	
156	Brown paper with liquid(film, capacitor, PCB)	
157	Silvery metal(foil, capacitor, PCB)	
158	Dull silvery metal(foil, capacitor, PCB)	
159	Silvery metal(connector, capacitor, PCB)	
160	Black body(triode, PCB)	
161	Red body(diode, PCB)	
162	Black body(ic, PCB)	
163	Black body with white printing(resistor, PCB)	
164	Brown body(capacitor, PCB)	
165	Black body(diode, PCB)	
166	Green PCB	
167	Silvery solder(PCB, at-858d)	

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 10 of 24

Material No.	Description (Location)	Photo(s) of tested materials
168	White adhesive paper with black printing(label, big transformer)	
169	Silvery metal(frame, big transformer)	
170	Yellow soft plastic(wire jacket, big transformer)	
171	Black soft plastic(wire jacket, big transformer)	
172	Red soft plastic(wire jacket, big transformer)	
173	Coffee soft plastic(wire jacket, big transformer)	
174	Yellow adhesive plastic(tape, big transformer)	
175	Atrovirens paper(sheet, big transformer)	
176	Silvery metal with black coating(plate, big transformer)	
177	Coppery metal(coil, big transformer)	
178	Translucent plastic(bobbin, big transformer)	

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, IEC62321-7-1:2015, 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	X	NA	Cr(VI):Negative	—	PASS
2	BL	BL	BL	BL	NA	—	—	PASS
3	BL	BL	BL	BL	BL	—	—	PASS
4	BL	BL	BL	BL	BL	—	—	PASS
5	BL	BL	BL	BL	BL	—	—	PASS
6	BL	BL	BL	X	NA	Cr(VI):Negative	—	PASS
7	BL	BL	BL	BL	BL	—	—	PASS
8	BL	BL	BL	BL	NA	—	—	PASS

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 11 of 24

No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	Conclusion
	Pb	Cd	Hg	Cr	Br			
9	BL	BL	BL	BL	BL	—	—	PASS
10	BL	BL	BL	BL	NA	—	—	PASS
11	BL	BL	BL	BL	NA	—	—	PASS
12	BL	BL	BL	BL	BL	—	—	PASS
13	BL	BL	BL	BL	BL	—	—	PASS
14	BL	BL	BL	BL	BL	—	—	PASS
15	BL	BL	BL	BL	BL	—	—	PASS
16	BL	BL	BL	BL	BL	—	—	PASS
17	BL	BL	BL	BL	NA	—	—	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	NA	—	—	PASS
26	BL	BL	BL	X	NA	Cr(VI):Negative	—	PASS
27	BL	BL	BL	BL	BL	—	—	PASS
28	BL	BL	BL	BL	NA	—	—	PASS
29	BL	BL	BL	BL	BL	—	—	PASS
30	BL	BL	BL	BL	NA	—	—	PASS
31	BL	BL	BL	BL	NA	—	—	PASS
32	BL	BL	BL	BL	NA	—	—	PASS
33	BL	BL	BL	BL	NA	—	—	PASS
34	BL	BL	BL	BL	NA	—	—	PASS
35	BL	BL	BL	BL	NA	—	—	PASS

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 12 of 24

No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	Conclusion
	Pb	Cd	Hg	Cr	Br			
36	BL	BL	BL	BL	BL	—	—	PASS
37	BL	BL	BL	BL	BL	—	—	PASS
38	BL	BL	BL	BL	BL	—	—	PASS
39	BL	BL	BL	BL	BL	—	—	PASS
40	BL	BL	BL	BL	BL	—	—	PASS
41	BL	BL	BL	BL	BL	—	—	PASS
42	BL	BL	BL	BL	BL	—	—	PASS
43	BL	BL	BL	BL	BL	—	—	PASS
44	BL	BL	BL	BL	BL	—	—	PASS
45	BL	BL	BL	BL	NA	—	—	PASS
46	BL	BL	BL	BL	BL	—	—	PASS
47	BL	BL	BL	BL	BL	—	—	PASS
48	BL	BL	BL	BL	BL	—	—	PASS
49	BL	BL	BL	BL	NA	—	—	PASS
50	BL	BL	BL	BL	BL	—	—	PASS
51	BL	BL	BL	BL	BL	—	—	PASS
52	BL	BL	BL	BL	BL	—	—	PASS
53	BL	BL	BL	BL	BL	—	—	PASS
54	BL	BL	BL	BL	BL	—	—	PASS
55	BL	BL	BL	BL	BL	—	—	PASS
56	BL	BL	BL	BL	BL	—	—	PASS
57	BL	BL	BL	BL	NA	—	—	PASS
58	BL	BL	BL	BL	BL	—	—	PASS
59	BL	BL	BL	BL	BL	—	—	PASS
60	BL	BL	BL	BL	BL	—	—	PASS
61	BL	BL	BL	BL	BL	—	—	PASS
62	BL	BL	BL	BL	X	PBBs: N.D.	—	PASS

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 13 of 24

No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	Conclusion
	Pb	Cd	Hg	Cr	Br			
						PBDEs: N.D.		
63	BL	BL	BL	BL	NA	—	—	PASS
64	BL	BL	BL	BL	NA	—	—	PASS
65	BL	BL	BL	BL	BL	—	—	PASS
66	BL	BL	BL	BL	BL	—	—	PASS
67	BL	BL	BL	BL	BL	—	—	PASS
68	BL	BL	BL	BL	BL	—	—	PASS
69	BL	BL	BL	BL	BL	—	—	PASS
70	BL	BL	BL	BL	BL	—	—	PASS
71	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
72	BL	BL	BL	BL	BL	—	—	PASS
73	BL	BL	BL	X	NA	Cr(VI):Negative	—	PASS
74	BL	BL	BL	BL	BL	—	—	PASS
75	BL	BL	BL	BL	BL	—	—	PASS
76	BL	BL	BL	X	NA	Cr(VI):Negative	—	PASS
77	BL	BL	BL	BL	BL	—	—	PASS
78	BL	BL	BL	BL	BL	—	—	PASS
79	BL	BL	BL	BL	BL	—	—	PASS
80	BL	BL	BL	BL	BL	—	—	PASS
81	BL	BL	BL	BL	NA	—	—	PASS
82	BL	BL	BL	BL	BL	—	—	PASS
83	BL	BL	BL	X	NA	Cr(VI):Negative	—	PASS
84	BL	BL	BL	BL	NA	—	—	PASS
85	BL	BL	BL	BL	BL	—	—	PASS
86	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
87	BL	BL	BL	X	NA	Cr(VI):Negative	—	PASS

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 14 of 24

No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	Conclusion
	Pb	Cd	Hg	Cr	Br			
88	BL	BL	BL	BL	NA	—	—	PASS
89	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
90	BL	BL	BL	BL	BL	—	—	PASS
91	BL	BL	BL	BL	NA	—	—	PASS
92	BL	BL	BL	BL	NA	—	—	PASS
93	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
94	BL	BL	BL	BL	BL	—	—	PASS
95	BL	BL	BL	BL	BL	—	—	PASS
96	BL	BL	BL	BL	BL	—	—	PASS
97	BL	BL	BL	BL	BL	—	—	PASS
98	BL	BL	BL	BL	BL	—	—	PASS
99	BL	BL	BL	BL	NA	—	—	PASS
100	BL	BL	BL	BL	BL	—	—	PASS
101	BL	BL	BL	BL	BL	—	—	PASS
102	BL	BL	BL	BL	NA	—	—	PASS
103	BL	BL	BL	BL	BL	—	—	PASS
104	BL	BL	BL	BL	BL	—	—	PASS
105	BL	BL	BL	BL	NA	—	—	PASS
106	BL	BL	BL	BL	BL	—	—	PASS
107	BL	BL	BL	BL	NA	—	—	PASS
108	BL	BL	BL	BL	NA	—	—	PASS
109	BL	BL	BL	BL	NA	—	—	PASS
110	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
111	BL	BL	BL	BL	BL	—	—	PASS
112	BL	BL	BL	BL	BL	—	—	PASS
113	BL	BL	BL	BL	NA	—	—	PASS

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 15 of 24

No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	Conclusion
	Pb	Cd	Hg	Cr	Br			
114	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
115	BL	BL	BL	BL	BL	—	—	PASS
116	BL	BL	BL	BL	BL	—	—	PASS
117	BL	BL	BL	BL	NA	—	—	PASS
118	BL	BL	BL	BL	NA	—	—	PASS
119	BL	BL	BL	BL	NA	—	—	PASS
120	BL	BL	BL	BL	NA	—	—	PASS
121	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
122	BL	BL	BL	BL	BL	—	—	PASS
123	BL	BL	BL	BL	NA	—	—	PASS
124	BL	BL	BL	BL	NA	—	—	PASS
125	BL	BL	BL	BL	BL	—	—	PASS
126	BL	BL	BL	BL	BL	—	—	PASS
127	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
128	BL	BL	BL	BL	BL	—	—	PASS
129	BL	BL	BL	BL	BL	—	—	PASS
130	BL	BL	BL	BL	NA	—	—	PASS
131	BL	BL	BL	BL	BL	—	—	PASS
132	BL	BL	BL	BL	BL	—	—	PASS
133	BL	BL	BL	BL	BL	—	—	PASS
134	BL	BL	BL	BL	NA	—	—	PASS
135	BL	BL	BL	BL	NA	—	—	PASS
136	BL	BL	BL	BL	NA	—	—	PASS
137	BL	BL	BL	BL	NA	—	—	PASS
138	BL	BL	BL	BL	NA	—	—	PASS
139	BL	BL	BL	BL	BL	—	—	PASS

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 16 of 24

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	Pb	Cd	Hg	Cr	Br			
140	BL	BL	BL	BL	NA	—	—	PASS
141	BL	BL	BL	BL	BL	—	—	PASS
142	BL	BL	BL	BL	NA	—	—	PASS
143	BL	BL	BL	BL	BL	—	—	PASS
144	BL	BL	BL	BL	NA	—	—	PASS
145	BL	BL	BL	BL	BL	—	—	PASS
146	BL	BL	BL	BL	BL	—	—	PASS
147	BL	BL	BL	BL	BL	—	—	PASS
148	BL	BL	BL	BL	BL	—	—	PASS
149	BL	BL	BL	BL	NA	—	—	PASS
150	BL	BL	BL	BL	BL	—	—	PASS
151	BL	BL	BL	BL	BL	—	—	PASS
152	BL	BL	BL	BL	BL	—	—	PASS
153	BL	BL	BL	BL	BL	—	—	PASS
154	BL	BL	BL	BL	NA	—	—	PASS
155	BL	BL	BL	BL	BL	—	—	PASS
156	BL	BL	BL	BL	BL	—	—	PASS
157	BL	BL	BL	BL	NA	—	—	PASS
158	BL	BL	BL	BL	NA	—	—	PASS
159	BL	BL	BL	BL	NA	—	—	PASS
160	BL	BL	BL	BL	BL	—	—	PASS
161	BL	BL	BL	BL	BL	—	—	PASS
162	BL	BL	BL	BL	BL	—	—	PASS
163	BL	BL	BL	BL	BL	—	—	PASS
164	BL	BL	BL	BL	BL	—	—	PASS
165	BL	BL	BL	BL	BL	—	—	PASS
166	BL	BL	BL	BL	BL	—	—	PASS

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 17 of 24

No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	Conclusion
	Pb	Cd	Hg	Cr	Br			
167	BL	BL	BL	BL	NA	—	—	PASS
168	BL	BL	BL	BL	BL	—	—	PASS
169	BL	BL	BL	BL	NA	—	—	PASS
170	BL	BL	BL	BL	BL	—	—	PASS
171	BL	BL	BL	BL	BL	—	—	PASS
172	BL	BL	BL	BL	BL	—	—	PASS
173	BL	BL	BL	BL	BL	—	—	PASS
174	BL	BL	BL	BL	BL	—	—	PASS
175	BL	BL	BL	BL	BL	—	—	PASS
176	BL	BL	BL	BL	NA	—	—	PASS
177	BL	BL	BL	BL	NA	—	—	PASS
178	BL	BL	BL	BL	BL	—	—	PASS

Remark:

- (1) ① Results 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).
- ② OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.
- ③ The 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	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 18 of 24

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).

② Unit 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

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

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.

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 19 of 24

(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)				
3+4+5	N.D.	N.D.	N.D.	N.D.	PASS
7	N.D.	N.D.	N.D.	N.D.	PASS
9	N.D.	N.D.	N.D.	N.D.	PASS
12+13+14	N.D.	N.D.	N.D.	N.D.	PASS
15+16	N.D.	N.D.	N.D.	N.D.	PASS
18+19+20	N.D.	N.D.	N.D.	N.D.	PASS
21+22+23	N.D.	N.D.	N.D.	N.D.	PASS
24	N.D.	N.D.	N.D.	N.D.	PASS
27	N.D.	N.D.	N.D.	N.D.	PASS
29	N.D.	N.D.	N.D.	N.D.	PASS
36+37+38	N.D.	N.D.	N.D.	N.D.	PASS
39+40+41	N.D.	N.D.	N.D.	N.D.	PASS
42+43+44	N.D.	N.D.	N.D.	N.D.	PASS
46+47+48	N.D.	N.D.	N.D.	N.D.	PASS
50+51+52	N.D.	N.D.	N.D.	N.D.	PASS
53+54	N.D.	N.D.	N.D.	N.D.	PASS
55+56	N.D.	N.D.	N.D.	N.D.	PASS
58	N.D.	N.D.	N.D.	N.D.	PASS
59	N.D.	N.D.	N.D.	N.D.	PASS
61+62	N.D.	N.D.	N.D.	N.D.	PASS
65	N.D.	N.D.	N.D.	N.D.	PASS
66	N.D.	N.D.	N.D.	N.D.	PASS

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 20 of 24

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)				
68+69+70	N.D.	N.D.	N.D.	N.D.	PASS
71+72	N.D.	N.D.	N.D.	N.D.	PASS
74	N.D.	N.D.	N.D.	N.D.	PASS
75	N.D.	N.D.	N.D.	N.D.	PASS
77	N.D.	N.D.	N.D.	N.D.	PASS
78	N.D.	N.D.	N.D.	N.D.	PASS
79	343	N.D.	N.D.	N.D.	PASS
82	N.D.	N.D.	N.D.	N.D.	PASS
85	N.D.	N.D.	N.D.	N.D.	PASS
86	N.D.	N.D.	N.D.	N.D.	PASS
89	N.D.	N.D.	N.D.	N.D.	PASS
90	N.D.	N.D.	N.D.	N.D.	PASS
93+94+95	N.D.	N.D.	N.D.	N.D.	PASS
96+97+98	N.D.	N.D.	N.D.	N.D.	PASS
99	N.D.	N.D.	N.D.	N.D.	PASS
67	308	N.D.	N.D.	N.D.	PASS
115	N.D.	N.D.	N.D.	N.D.	PASS
116	N.D.	N.D.	N.D.	N.D.	PASS
100	775	N.D.	N.D.	N.D.	PASS
101	N.D.	N.D.	143	N.D.	PASS
121	N.D.	N.D.	N.D.	N.D.	PASS
122	N.D.	N.D.	N.D.	N.D.	PASS
125+126+127	N.D.	N.D.	N.D.	N.D.	PASS
128+129	N.D.	N.D.	N.D.	N.D.	PASS

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Test Report

Report No.: U00021904241872

Query Password: QW2597

Date: May 24, 2019

Page 21 of 24

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)				
131+132+133	N.D.	N.D.	N.D.	N.D.	PASS
139	N.D.	N.D.	N.D.	N.D.	PASS
141	N.D.	N.D.	N.D.	N.D.	PASS
143	N.D.	N.D.	N.D.	N.D.	PASS
145+146+147	N.D.	N.D.	N.D.	N.D.	PASS
148	N.D.	N.D.	N.D.	N.D.	PASS
150+151	N.D.	N.D.	N.D.	N.D.	PASS
152+153	N.D.	N.D.	N.D.	N.D.	PASS
155	N.D.	N.D.	N.D.	N.D.	PASS
156	N.D.	N.D.	N.D.	N.D.	PASS
160+161+162	N.D.	N.D.	N.D.	N.D.	PASS
163+164	N.D.	N.D.	N.D.	N.D.	PASS
165+166	N.D.	N.D.	N.D.	N.D.	PASS
168	N.D.	N.D.	N.D.	N.D.	PASS
170	N.D.	N.D.	N.D.	N.D.	PASS
79	343	N.D.	N.D.	N.D.	PASS
80	N.D.	N.D.	N.D.	N.D.	PASS
172	403	N.D.	N.D.	N.D.	PASS
173	N.D.	N.D.	N.D.	N.D.	PASS
171	N.D.	N.D.	N.D.	N.D.	PASS
174	N.D.	N.D.	N.D.	N.D.	PASS
175	N.D.	N.D.	N.D.	N.D.	PASS
178	N.D.	N.D.	N.D.	N.D.	PASS

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Test Report

Report No.: U00021904241872

Query Password: QW2597

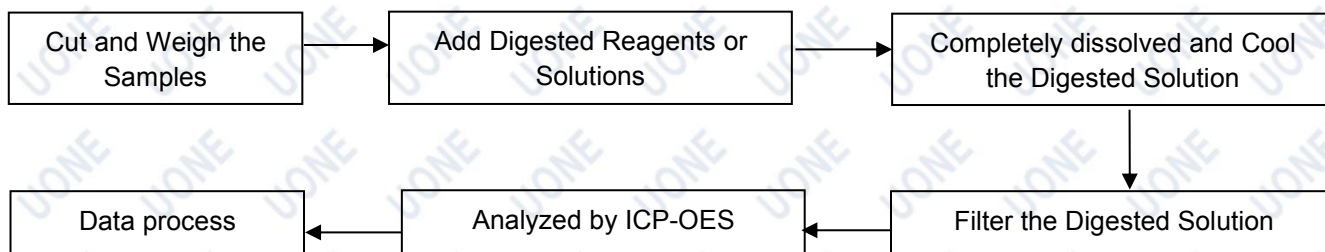
Date: May 24, 2019

Page 22 of 24

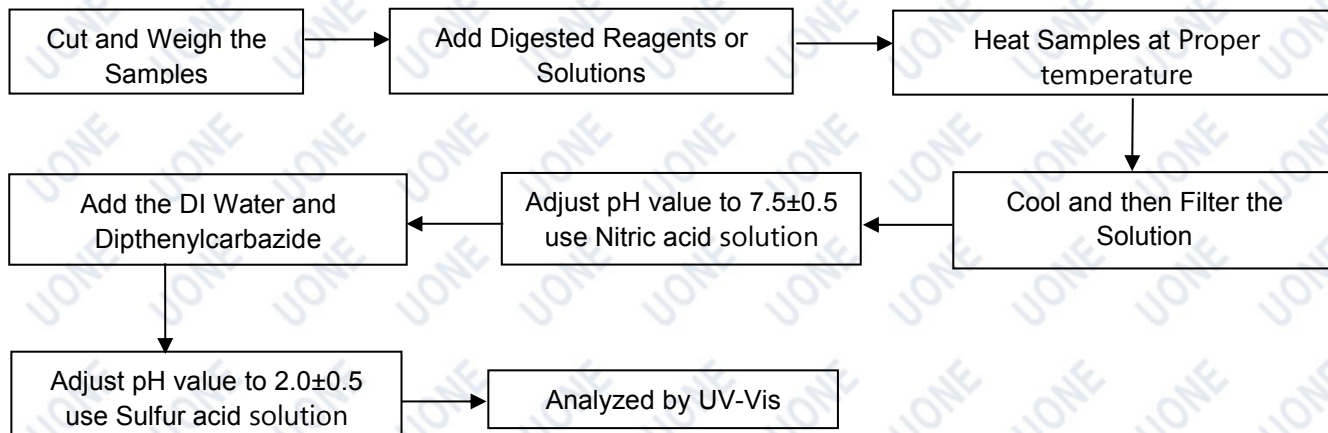
- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. RL = report limit.
 3. N.D.=not detected(less than RL).

Test Process Flow

1. Lead, Cadmium, Mercury



2. Hexavalent Chromium (Non-metal)



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Test Report

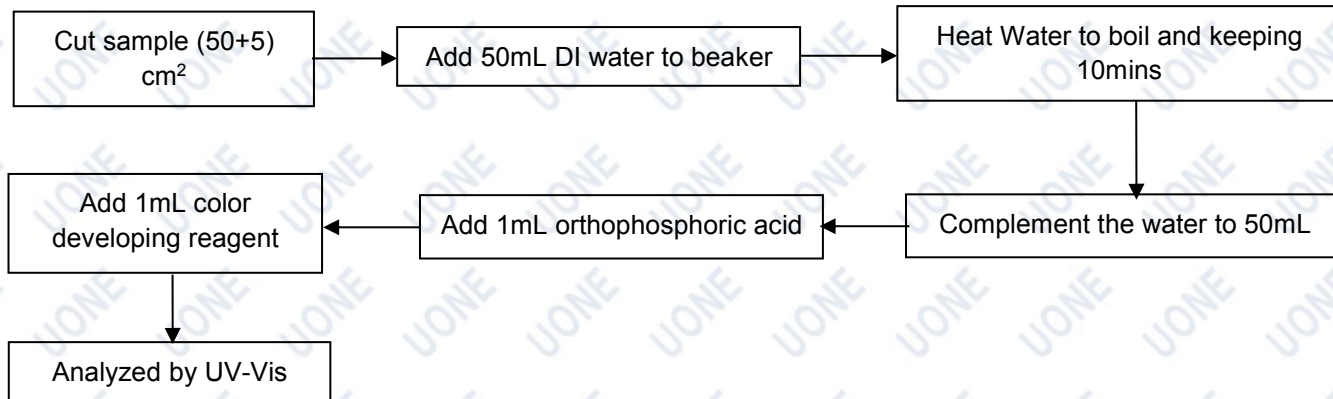
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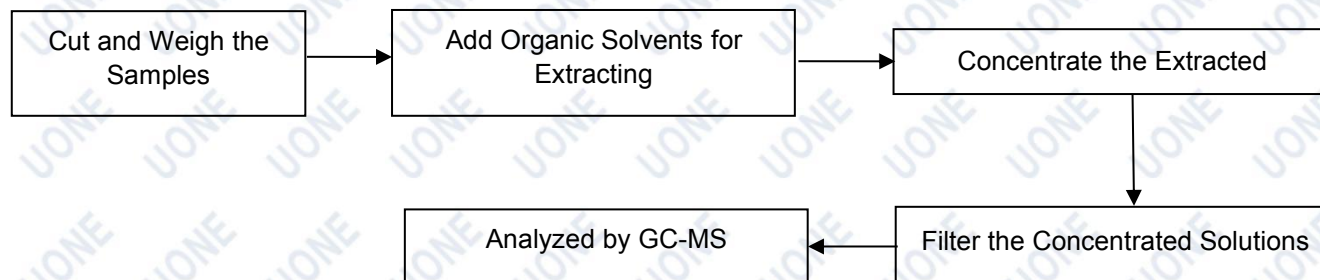
Date: May 24, 2019

Page 23 of 24

Hexavalent Chromium (Metal)



3. PBBs & PBDEs, Phthalates



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Test Report

Report No.: U000021904241872

Query Password: QW2597

Date: May 24, 2019

Page 24 of 24

Photo(s) of Sample:



End of Report

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