

Test Report

Report No.:U01301211126601ER1

Query Password: QW2962

Date: Jan. 11, 2022

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Applicant: Sharkoon Technologies GmbH
Contact information: Grüninger Weg 48, 35415 Pohlheim , Germany

The following sample(s) was (were) submitted and identified by client as:

Sample Name : Switching Power Supply
Model No. : SHP Bronze 500W, SHP Bronze 600W, SHP Bronze 700W
Trade mark : SHARKOON
Manufacturer : Sharkoon Technologies GmbH
Address : Grüninger Weg 48, 35415 Pohlheim, Germany
Sample Received Date : Nov. 26, 2021
Testing Period : From Nov. 26, 2021 to Dec. 20, 2021
Test Request : Please refer to next page(s).
Test Result(s) : Please refer to next page(s).

Shen Zhen UONE Test Co., LTD.

Prepared by



Max Wu

Checked by



Lin Zhu

Approved by



Levent Liang



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Summary of test results:**TEST REQUEST**

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

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

CONCLUSION**PASS****PASS**

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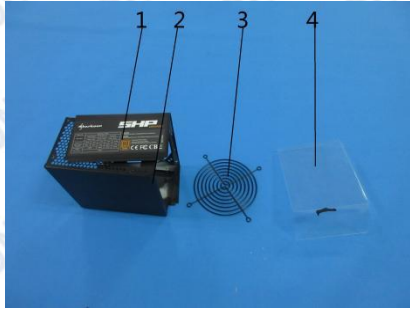
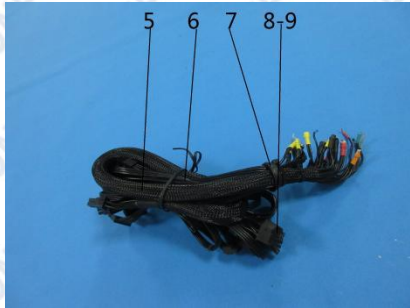
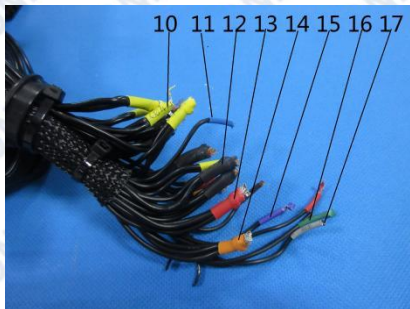

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Test Material List

Material No.	Description (Location)	Photo(s) of tested materials
1	Black adhesive plastic with white printing(label)	
2	Silvery metal with black coating(shell)	
3	Silvery metal with black coating(lid)	
4	Transparent plastic(spacer)	
5	Black plastic(wire jacket)	
6	Black soft plastic(wire jacket)	
7	Black plastic(buckle)	
8	Black plastic-terminal holder)	
9	Silvery metal-terminal)	
10	Yellow soft plastic(sleeve)	
11	Blue soft plastic(sleeve)	
12	Black soft plastic(sleeve)	
13	Red soft plastic(sleeve)	
14	Orange soft plastic(sleeve)	
15	Purple soft plastic(sleeve)	
16	Green soft plastic(sleeve)	
17	Gray soft plastic(sleeve)	
18	Silvery metal with black coating(screw)	
19	Silvery metal with black coating(gasket)	

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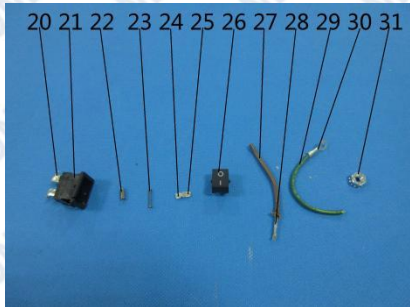
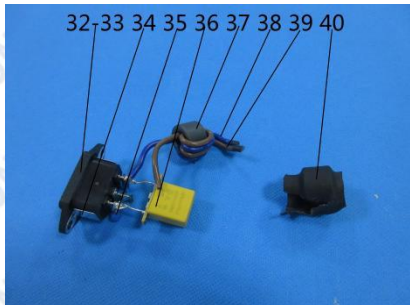
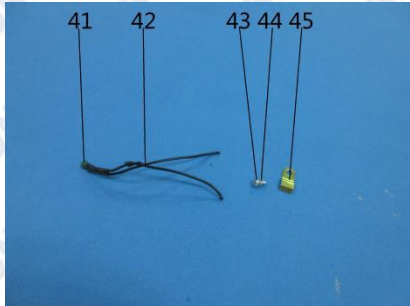
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Material No.	Description (Location)	Photo(s) of tested materials
20	Silvery metal(pin,switch)	 <p>20 21 22 23 24 25 26 27 28 29 30 31</p>
21	Black plastic(shell,switch)	
22	Silvery metal(pedestal,switch)	
23	Silvery metal(spring,switch)	
24	Silvery metal(connector,switch)	
25	Silvery metal(contact,switch)	
26	Black plastic(button,switch)	
27	Brown soft plastic(wire jacket)	
28	Silvery metal(wire)	
29	Green soft plastic(wire jacket)	
30	Silvery metal(connector)	
31	Silvery metal(nut)	 <p>32-33 34 35 36 37 38 39 40</p>
32	Black plastic(power socket)	
33	Silvery metal(connector)	
34	Silvery metal(fixed)	
35	Blue body(capacitor)	
36	Yellow body(capacitor)	
37	Black magnet	
38	Blue soft plastic(wire jacket)	
39	Brown soft plastic(wire jacket)	
40	Black soft plastic(sleeve)	
41	Green body(resistor)	 <p>41 42 43 44 45</p>
42	Black soft plastic(wire jacket)	
43	Silvery metal(screw)	
44	Silvery metal(gasket)	
45	Colour metal(spacer)	

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Material No.	Description (Location)	Photo(s) of tested materials
46	Black body(inductor)	
47	Copper metal(coil,inductor)	
48	Red body(glass diode)	
49	Black body(IC)	
50	Yellow magnet(inductor)	
51	Copper metal(coil,inductor)	
52	Dark Grey body(capacitor)	
53	Green magnet(inductor)	
54	Blue body(capacitor)	
55	Silvery metal(radiator)	
56	Black body(BD)	
57	Black magnet(inductor)	
58	Blue plastic with white printing(sleeve, capacitor)	
59	Red metal(coil,inductor)	
60	Transparent adhesive plastic with black printing(label, transformer)	
61	Yellow adhesive plastic(tape, transformer)	
62	Black plastic(bobbin, transformer)	
63	Black magnet(core, transformer)	
64	Copper metal(coil, transformer)	
65	Copper metal with yellow coating(coil, transformer)	
66	Transparent soft plastic(sleeve, transformer)	
67	Black soft plastic(sleeve, transformer)	
68	Black adhesive plastic(tape, transformer)	
69	Brown body(resistor)	
70	Black plastic with white printing(sleeve, capacitor)	
71	Silvery metal(shell, capacitor)	
72	Black soft rubber(base, capacitor)	
73	Brown paper with liquid(film, capacitor)	
74	Silvery metal(foil, capacitor)	
75	Dull silvery metal(foil, capacitor)	
76	Silvery metal(pin, capacitor)	

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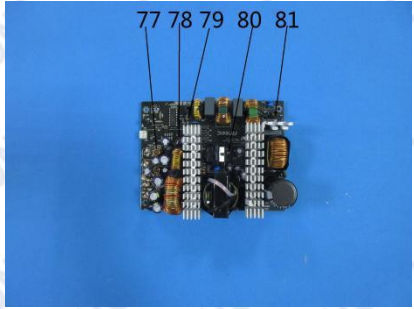
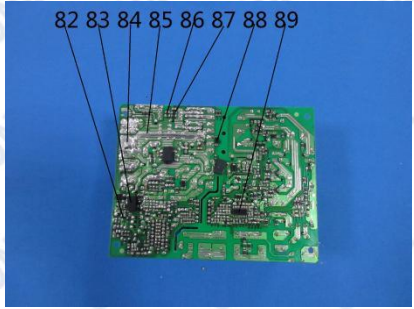
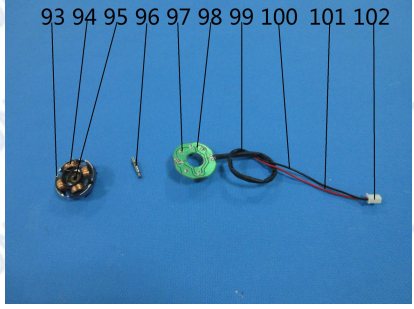
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Material No.	Description (Location)	Photo(s) of tested materials
77	Brown body(resistor)	
78	Black body(IC)	
79	Brown body(fuse)	
80	Black body(diode)	
81	Yellow body(resistor)	
82	Black body(triode)	
83	Black soft plastic(spacer)	
84	Silvery metal(solder)	
85	Green PCB	
86	Brown body(capacitor)	
87	Black body(resistor)	
88	Black body(diode)	
89	Black body(IC)	
90	Silvery adhesive plastic with black printing(label,fan)	
91	Black plastic(shell,fan)	
92	Black plastic(fan)	
93	Silvery metal sheet(fan)	
94	Coppery metal(coil,fan)	
95	Gold metal(bearing(fan)	
96	Silvery metal(axle,fan)	
97	Silvery metal(solder,fan)	
98	Green PCB(fan)	
99	Black soft plastic(sleeve)	

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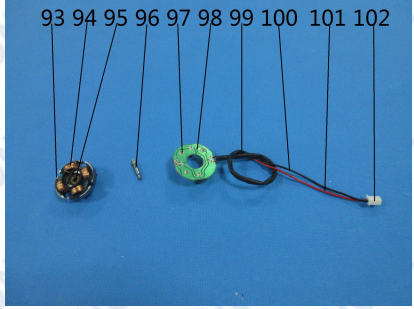
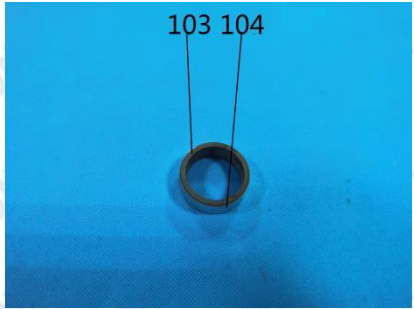
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Material No.	Description (Location)	Photo(s) of tested materials
100	Black soft plastic(wire jacket)	 <p>93 94 95 96 97 98 99 100 101 102</p>
101	Red soft plastic(wire jacket)	
102	White plastic-terminal holder)	
103	Black magnet(fan)	 <p>103 104</p>
104	Silvery metal(pedestal,fan)	

Remark: The test result(s) of Material No. 17 is(are) shown retest result, and the retest sample(s) was(were) provided by client on Dec. 14, 2021.

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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	BL	—	—	PASS
2	BL	BL	BL	BL	NA	—	—	PASS
3	BL	BL	BL	BL	NA	—	—	PASS
4	BL	BL	BL	BL	BL	—	—	PASS
5	BL	BL	BL	BL	BL	—	—	PASS
6	BL	BL	BL	BL	BL	—	—	PASS
7	BL	BL	BL	BL	BL	—	—	PASS
8	BL	BL	BL	BL	BL	—	—	PASS
9	BL	BL	BL	BL	NA	—	—	PASS
10	BL	BL	BL	BL	BL	—	—	PASS
11	BL	BL	BL	BL	BL	—	—	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	—	Dec. 14, 2021	PASS
18	BL	BL	BL	BL	NA	—	—	PASS
19	BL	BL	BL	BL	NA	—	—	PASS
20	BL	BL	BL	BL	NA	—	—	PASS
21	BL	BL	BL	BL	BL	—	—	PASS
22	BL	BL	BL	BL	NA	—	—	PASS
23	BL	BL	BL	BL	NA	—	—	PASS

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No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	Conclusion
	Pb	Cd	Hg	Cr	Br			
24	BL	BL	BL	BL	NA	—	—	PASS
25	BL	BL	BL	BL	NA	—	—	PASS
26	BL	BL	BL	BL	BL	—	—	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	X	PBBs: N.D. PBDEs: N.D.	—	PASS
33	BL	BL	BL	BL	NA	—	—	PASS
34	BL	BL	BL	BL	NA	—	—	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	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	NA	—	—	PASS
44	BL	BL	BL	BL	NA	—	—	PASS
45	BL	BL	BL	X	NA	Cr(VI):Negative	—	PASS
46	BL	BL	BL	BL	BL	—	—	PASS
47	BL	BL	BL	BL	NA	—	—	PASS
48	OL*	BL	BL	BL	BL	—	Glass of electronic components	PASS
49	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			
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	BL	—	—	PASS
54	BL	BL	BL	BL	BL	—	—	PASS
55	BL	BL	BL	BL	NA	—	—	PASS
56	BL	BL	BL	BL	BL	—	—	PASS
57	BL	BL	BL	BL	BL	—	—	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	BL	—	—	PASS
62	BL	BL	BL	BL	BL	—	—	PASS
63	BL	BL	BL	BL	BL	—	—	PASS
64	BL	BL	BL	BL	NA	—	—	PASS
65	BL	BL	BL	BL	NA	—	—	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	NA	—	—	PASS
72	BL	BL	BL	BL	BL	—	—	PASS
73	BL	BL	BL	BL	BL	—	—	PASS
74	BL	BL	BL	BL	NA	—	—	PASS
75	BL	BL	BL	BL	NA	—	—	PASS
76	BL	BL	BL	BL	NA	—	—	PASS

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No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	Conclusion
	Pb	Cd	Hg	Cr	Br			
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	BL	—	—	PASS
82	BL	BL	BL	BL	BL	—	—	PASS
83	BL	BL	BL	BL	BL	—	—	PASS
84	BL	BL	BL	BL	NA	—	—	PASS
85	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
86	BL	BL	BL	BL	BL	—	—	PASS
87	BL	BL	BL	BL	BL	—	—	PASS
88	BL	BL	BL	BL	BL	—	—	PASS
89	BL	BL	BL	BL	BL	—	—	PASS
90	BL	BL	BL	BL	BL	—	—	PASS
91	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
92	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
93	BL	BL	BL	BL	NA	—	—	PASS
94	BL	BL	BL	BL	NA	—	—	PASS
95	BL	BL	BL	BL	NA	—	—	PASS
96	BL	BL	BL	BL	NA	—	—	PASS
97	BL	BL	BL	BL	NA	—	—	PASS
98	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
99	BL	BL	BL	BL	BL	—	—	PASS
100	BL	BL	BL	BL	BL	—	—	PASS
101	BL	BL	BL	BL	BL	—	—	PASS
102	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			
103	BL	BL	BL	BL	BL	—	—	PASS
104	BL	BL	BL	BL	NA	—	—	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	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

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 MDL).

② Unit and MDL (Method detection 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
MDL	2	2	2	8	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)

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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.

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

* Lead in glass and ceramic of electronic components is exempted.

(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	
MDL (mg/kg)	20	20	20	20	
Material No.	Result (mg/kg)				
1	N.D.	N.D.	N.D.	N.D.	PASS
4	N.D.	N.D.	N.D.	N.D.	PASS
5	N.D.	N.D.	N.D.	N.D.	PASS
6	165	N.D.	N.D.	N.D.	PASS
7	N.D.	N.D.	N.D.	N.D.	PASS
8	N.D.	N.D.	N.D.	N.D.	PASS
10	N.D.	N.D.	N.D.	N.D.	PASS
11	304	N.D.	N.D.	N.D.	PASS
12	N.D.	N.D.	N.D.	N.D.	PASS
13	N.D.	N.D.	N.D.	N.D.	PASS
14	N.D.	N.D.	N.D.	N.D.	PASS
15	108	N.D.	N.D.	N.D.	PASS
16	336	N.D.	N.D.	N.D.	PASS
21	N.D.	N.D.	N.D.	N.D.	PASS
26	N.D.	N.D.	N.D.	N.D.	PASS
27	160	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	
MDL (mg/kg)	20	20	20	20	
Material No.	Result (mg/kg)				
29	167	N.D.	N.D.	N.D.	PASS
32	N.D.	N.D.	N.D.	N.D.	PASS
35	N.D.	N.D.	N.D.	N.D.	PASS
36	N.D.	N.D.	N.D.	N.D.	PASS
37	N.D.	N.D.	N.D.	N.D.	PASS
38	125	N.D.	N.D.	N.D.	PASS
39	127	N.D.	N.D.	N.D.	PASS
40	N.D.	N.D.	N.D.	N.D.	PASS
41	N.D.	N.D.	N.D.	N.D.	PASS
42	344	N.D.	N.D.	N.D.	PASS
46	N.D.	N.D.	N.D.	N.D.	PASS
48	N.D.	N.D.	N.D.	N.D.	PASS
49	N.D.	N.D.	N.D.	N.D.	PASS
50	N.D.	N.D.	N.D.	N.D.	PASS
52	N.D.	N.D.	N.D.	N.D.	PASS
53	N.D.	N.D.	N.D.	N.D.	PASS
54	N.D.	N.D.	N.D.	N.D.	PASS
56	N.D.	N.D.	N.D.	N.D.	PASS
57	N.D.	N.D.	N.D.	N.D.	PASS
58	N.D.	N.D.	N.D.	N.D.	PASS
60	N.D.	N.D.	N.D.	N.D.	PASS
61	N.D.	N.D.	N.D.	N.D.	PASS
62	N.D.	N.D.	N.D.	N.D.	PASS
63	N.D.	N.D.	N.D.	N.D.	PASS

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Test Report

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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	
MDL (mg/kg)	20	20	20	20	
Material No.	Result (mg/kg)				
66	N.D.	N.D.	N.D.	N.D.	PASS
67	N.D.	N.D.	N.D.	N.D.	PASS
68	N.D.	N.D.	N.D.	N.D.	PASS
69	N.D.	N.D.	N.D.	N.D.	PASS
70	N.D.	N.D.	N.D.	N.D.	PASS
72	N.D.	N.D.	N.D.	N.D.	PASS
73	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	N.D.	N.D.	N.D.	N.D.	PASS
80	N.D.	N.D.	N.D.	N.D.	PASS
81	N.D.	N.D.	N.D.	N.D.	PASS
82	N.D.	N.D.	N.D.	N.D.	PASS
83	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
87	N.D.	N.D.	N.D.	N.D.	PASS
88	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
91	N.D.	N.D.	N.D.	N.D.	PASS
92	N.D.	N.D.	N.D.	N.D.	PASS
98	N.D.	N.D.	N.D.	N.D.	PASS
99	N.D.	N.D.	N.D.	N.D.	PASS

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Test Report

Report No.:U01301211126601ER1

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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	
MDL (mg/kg)	20	20	20	20	
Material No.	Result (mg/kg)				
100	N.D.	N.D.	N.D.	N.D.	PASS
101	N.D.	N.D.	104	N.D.	PASS
102	N.D.	N.D.	N.D.	N.D.	PASS
103	N.D.	N.D.	N.D.	N.D.	PASS

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

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Test Report

Report No.:U01301211126601ER1

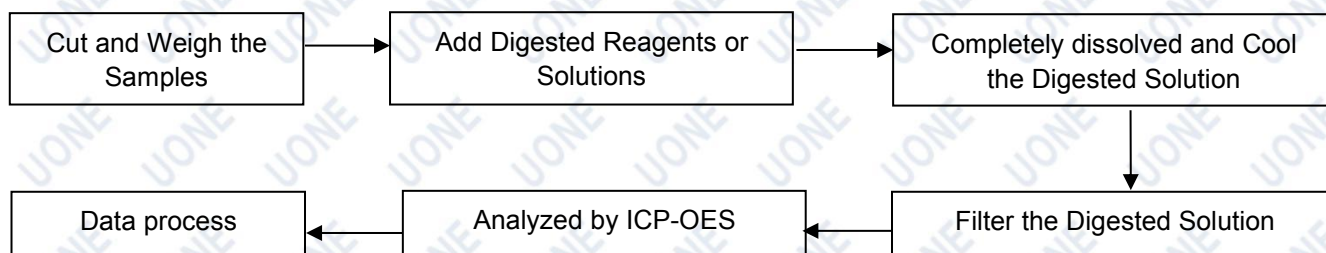
Query Password: QW2962

Date: Jan. 11, 2022

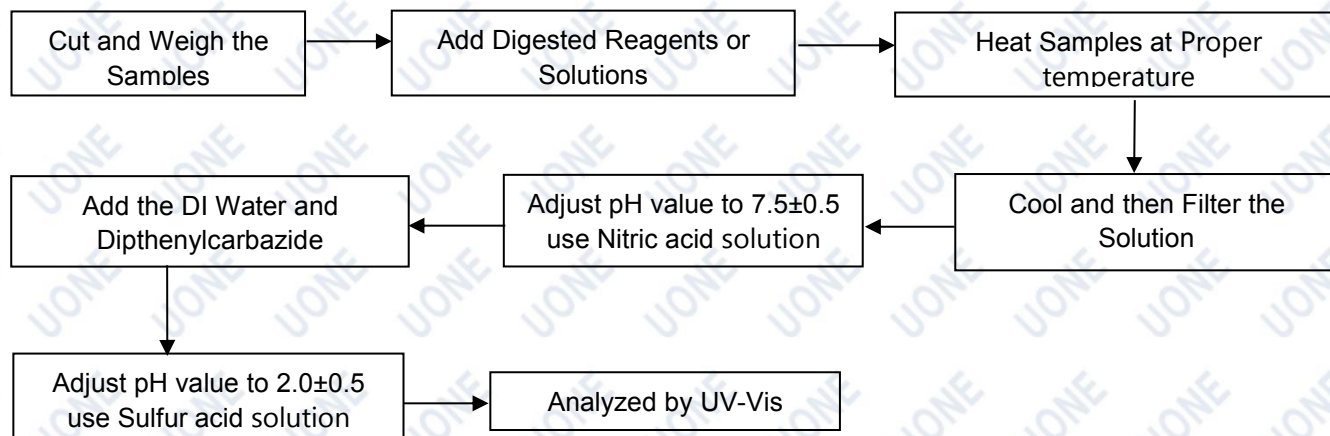
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Test Process Flow

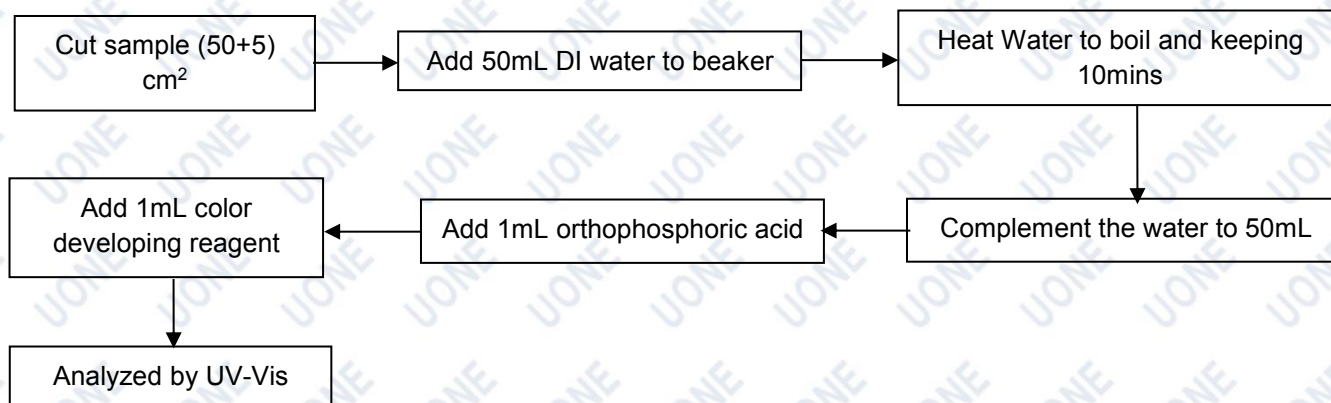
1. Lead, Cadmium, Mercury



2. Hexavalent Chromium (Non-metal)



Hexavalent Chromium (Metal)



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Test Report

Report No.:U01301211126601ER1

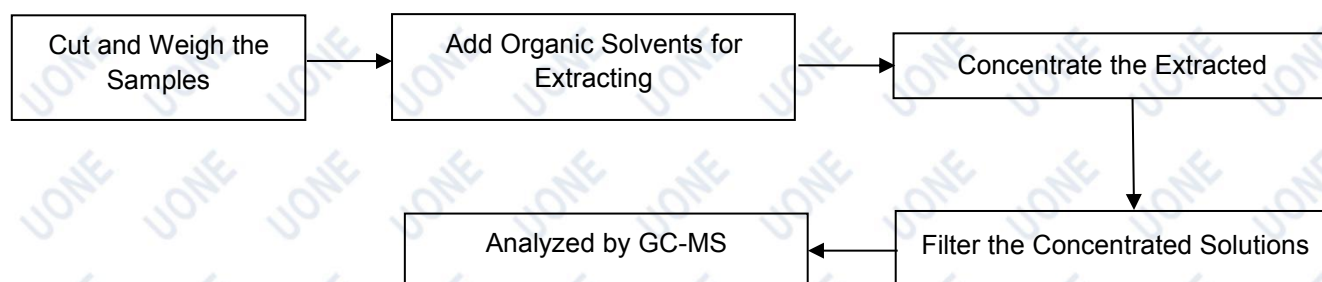
Query Password: QW2962

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Test Process Flow (Continued):

3. PBBs & PBDEs, Phthalates



Remark: This report replaces the report whose report No. is U01301211126601E. The original report No. is U01301211126601E will be automatically nullified on the date of issuance of this report.

Photo(s) of Sample:



End of Report

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