

Test Report

Report No.: U01501191202103E

Query Password: QW1498

Date: Dec. 7, 2019

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Applicant:

Contact information:

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

Sample Description : Air 5W wireless charging portfolio A4 with powerbank & Air 5W wireless charging notebook cover A5

Model No. : P774.05 & P774.04

Sample Received Date : Dec. 3, 2019

Testing Period : From Dec. 3, 2019 to Dec. 7, 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



Marcia Deng

Checked by



Nora Deng

Approved by



Pascal Shi

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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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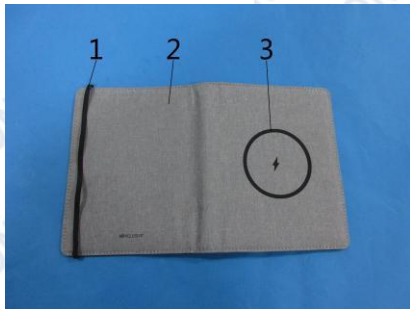

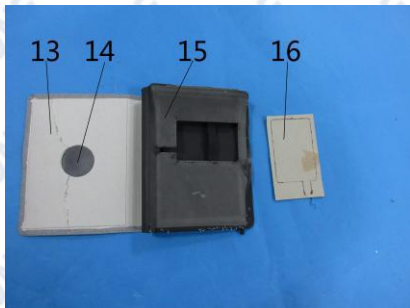
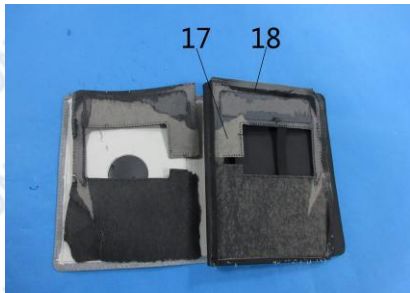
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Test Material List

Material No.	Description (Location)	Photo(s) of tested materials
1	Black elastic	
2	Gray cloth	
3	Black plastic	
4	Black leather	
5	Black Velcro(suede)	
6	Black Velcro(Hook surface)	
7	Black elastic	
8	Black elastic	
9	Black plastic(shell)	
10	Gray plastic(wire jacket)	
11	Black elastic	
12	Black cloth with white printing	
13	Light grey paper	
14	Black plastic	
15	Light grey froth	
16	Gray paper	
17	Dark grey paper	
18	Black cloth	

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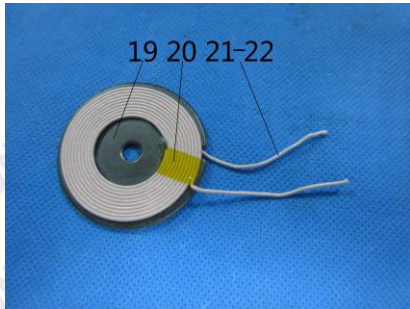
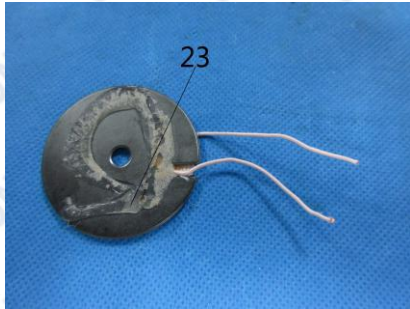
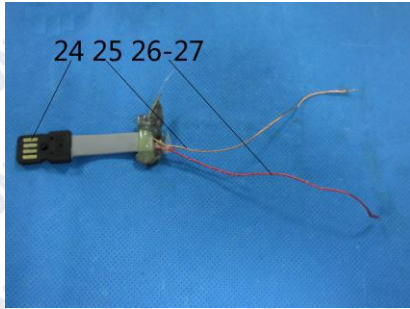
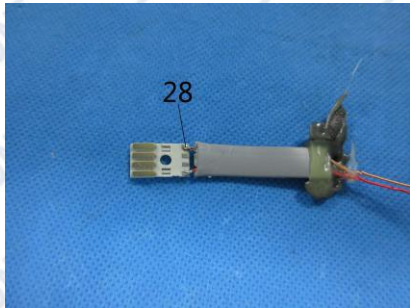
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Material No.	Description (Location)	Photo(s) of tested materials
19	Magnet(slice)	
20	Yellow plastic(tape)	
21	Pink fabric (silk)	
22	Coppery metal(wire)	
23	Translucent plastic	
24	Coppery metal(pin)	
25	Coppery metal(wire)	
26	Red metal(wire)	
27	White silk(shield)	
28	Silvery metal(solder)	

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Material No.	Description (Location)	Photo(s) of tested materials
29	Black body(resistor)	
30	White body(diode)	
31	Yellow body(capacitor)	
32	Green PCB	
33	Black IC	
34	Red body(diode)	
35	Black body(triode)	
36	Silvery metal(solder)	
37	Black cloth	

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	BL	—	—	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	BL	BL	—	—	PASS

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No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	Conclusion
	Pb	Cd	Hg	Cr	Br			
7	BL	BL	BL	BL	BL	—	—	PASS
8	BL	BL	BL	BL	BL	—	—	PASS
9	BL	BL	BL	BL	BL	—	—	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	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	NA	—	—	PASS
23	BL	BL	BL	BL	BL	—	—	PASS
24	BL	BL	BL	X	NA	Cr(VI):Negative	—	PASS
25	BL	BL	BL	BL	NA	—	—	PASS
26	BL	BL	BL	BL	NA	—	—	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	BL	—	—	PASS
31	BL	BL	BL	BL	BL	—	—	PASS
32	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS

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No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	Conclusion
	Pb	Cd	Hg	Cr	Br			
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	NA	—	—	PASS
37	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	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 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

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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.

(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)				Conclusion
1	N.D.	N.D.	N.D.	N.D.	
2	N.D.	N.D.	N.D.	N.D.	
3	N.D.	N.D.	N.D.	N.D.	
4	N.D.	N.D.	N.D.	N.D.	
5	N.D.	N.D.	N.D.	N.D.	
6	N.D.	N.D.	N.D.	N.D.	
7	N.D.	N.D.	N.D.	N.D.	
8	N.D.	N.D.	N.D.	N.D.	
9	N.D.	N.D.	327	N.D.	
10	100	N.D.	N.D.	N.D.	
11	N.D.	N.D.	N.D.	N.D.	
12	N.D.	N.D.	N.D.	N.D.	
13	N.D.	N.D.	N.D.	N.D.	
14	N.D.	N.D.	N.D.	N.D.	
15	N.D.	N.D.	N.D.	N.D.	

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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
16	N.D.	N.D.	N.D.	N.D.	
17	N.D.	N.D.	N.D.	N.D.	
18	N.D.	N.D.	N.D.	N.D.	
19	N.D.	N.D.	N.D.	N.D.	
20	N.D.	N.D.	N.D.	N.D.	
21	N.D.	N.D.	N.D.	N.D.	
23	N.D.	N.D.	N.D.	N.D.	
27	N.D.	N.D.	N.D.	N.D.	
29	N.D.	N.D.	N.D.	N.D.	
30	N.D.	N.D.	N.D.	N.D.	
31	N.D.	N.D.	N.D.	N.D.	
32	N.D.	N.D.	N.D.	N.D.	
33	N.D.	N.D.	N.D.	N.D.	
34	N.D.	N.D.	N.D.	N.D.	
35	N.D.	N.D.	N.D.	N.D.	
37	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).

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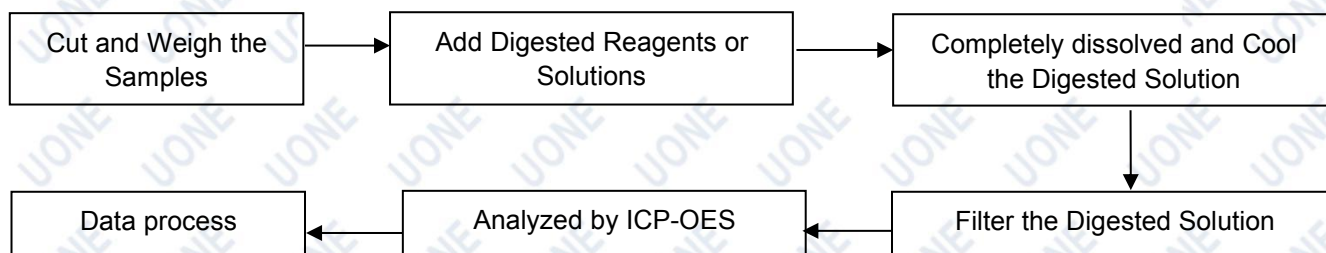
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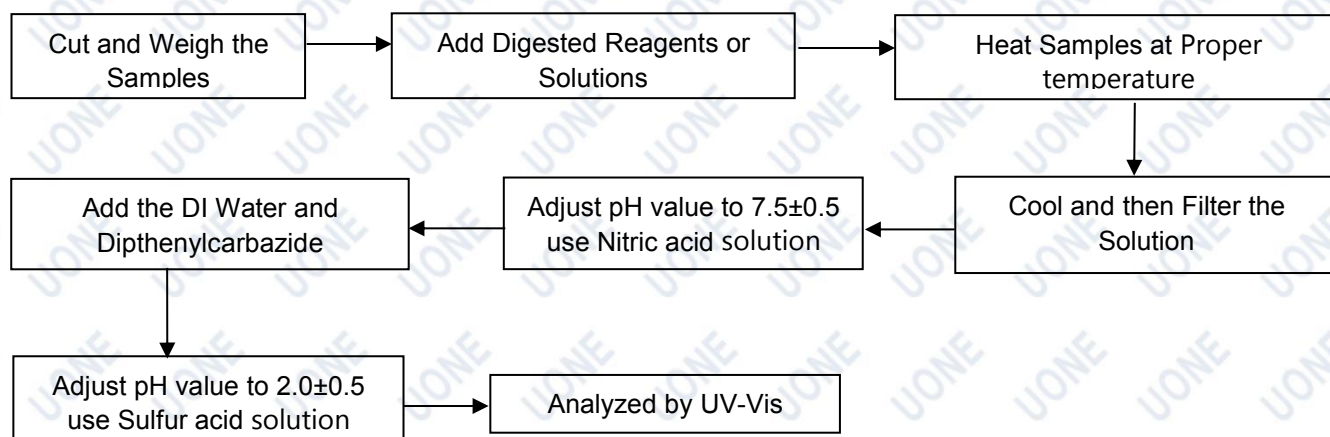
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Test Process Flow

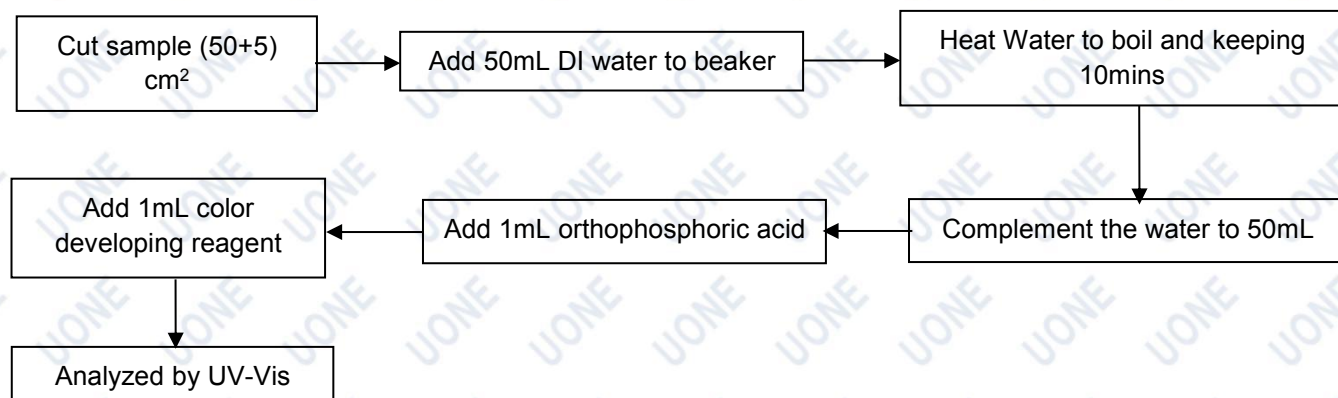
1. Lead, Cadmium, Mercury



2. Hexavalent Chromium (Non-metal)



Hexavalent Chromium (Metal)



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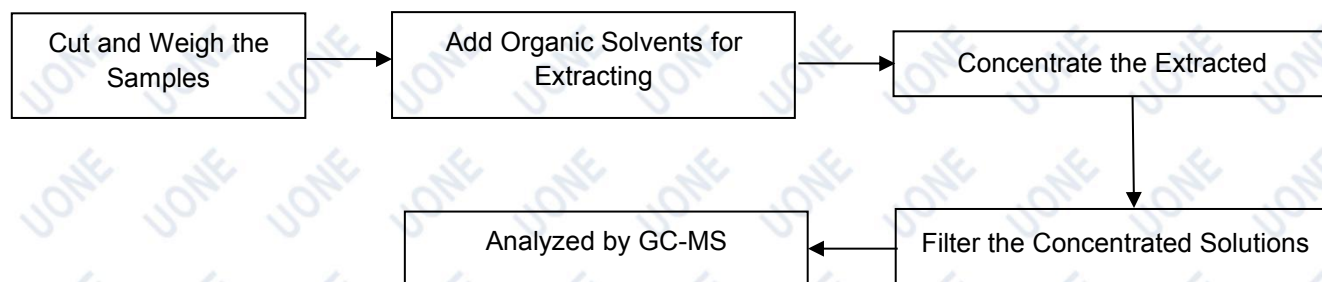
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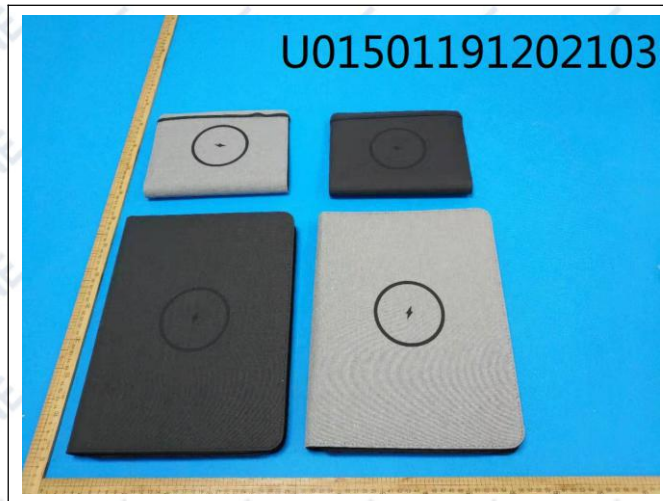
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Test Process Flow (Continued):

3. PBBs & PBDEs, Phthalates



Photo(s) of Sample:



End of Report

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