Report No.: U000021904241877

UONE

Query Password: QW3066

Page 1 of 12 Date: May 27, 2019

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:

ST-2150D Sample Name ST-2150, ST-2080, ST-2080D Model No. Sample Received Date **Testing Period** Test Request Test Result(s)

May 7, 2019

From May 7, 2019 to May 27, 2019

Please refer to next page(s).

Please refer to next page(s).

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

Prepared by

Checked by

Approved by

Anna

Anna Li

Nora Deng

Pascal Shi

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Report No.: U000021904241877	Query Password: QW3066	Date: May 27, 2019	Page 2 of 12
Summary of test results:	<u> </u>	20, 20,	
TEST REQUEST			CONCLUSION
	um(Cd), Mercury(Hg), Hexavalent s) and Polybrominated DiphenylE	Chromium(Cr(VI)),	PASS
(2) To determine Phthalates (DBP,	BBP, DEHP, DIBP) content by che	mical test	PASS

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Report No.: U000021904241877

UONE

Query Password: QW3066

Date: May 27, 2019

Page 3 of 12

Material No.	Description (Location)	Photo(s) of tested materials
01,0	White plastic with black printing(label, cable, ST-2150D)	
2	Silvery metal(nut, ST-2150D)	
3 0	Silvery metal(screw, ST-2150D)	1 2 3 4 5 6 7 8 9 10
4	Silvery metal(head, ST-2150D)	
5	Silvery metal(tube, ST-2150D)	
6	Silvery metal(tube, ST-2150D)	8.8
7	White fabric(sleeve, ST-2150D)	U
8 6	Black soft plastic(button, ST-2150D)	
9	Blue adhesive plastic(cover, ST-2150D)	
0 10 0	Black plastic(shell, ST-2150D)	2. "OL, "OL, "OL
11	Black soft plastic(sleeve, ST-2150D)	
12	Black plastic(SR, ST-2150D)	
13	Black soft plastic(cable jacket, ST-2150D)	
14 50	Black soft plastic(sleeve, ST-2150D)	
15	White ceramic(stick, ST-2150D)	11 12 13 14 15 16-17 18 19 20 21 22 23
16	White fabric(sleeve, ST-2150D)	
17	Silvery metal(wire, ST-2150D)	
18	Yellow soft plastic(wire jacket, ST-2150D)	and the second
19	Red soft plastic(wire jacket, ST-2150D)	
20	Silvery metal(connector, ST-2150D)	
21 0	Blue soft plastic(wire jacket, ST-2150D)	
22	Yellow/green soft plastic(wire jacket, ST-2150D)	
23	Coffee soft plastic(wire jacket, ST-2150D)	

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Report No.: U000021904241877

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Query Password: QW3066

Date: May 27, 2019

Page 4 of 12

Material No.	Description (Location)	Photo(s) of tested materials
24	Yellow body(capacitor, PCB)	5 12 12 13 13
25	Black soft plastic(sleeve, inductor, PCB)	
26	Coppery metal(coil, inductor, PCB)	
27	Black magnet(core, inductor, PCB)	
28	Black soft plastic with white printing(sleeve, capacitor, PCB)	
29	Silvery metal(shell, capacitor)	
30	Black soft rubber(base, capacitor)	
31	Brown paper with liquid(film, capacitor)	
32	Silvery metal(foil, capacitor)	
33	Dull silvery metal(foil, capacitor)	
34	Silvery metal(pin, capacitor)	1 12 12 13
35	White plastic(button, switch, PCB)	24 25-27 28-34 35-39 40-42
36	Silvery metal(cover, switch, PCB)	
37	Silvery metal(foil, switch, PCB)	
38	White plastic(shell, switch, PCB)	
39	Silvery metal(connector, switch, PCB)	
40	Transparent adhesive plastic(film, screen, PCB)	43 44 45 46 47 48 49 50 51
41	Dull transparent glass(lens, screen, PCB)	
42	Silvery adhesive plastic(film, screen, PCB)	
43	Brown body(capacitor, PCB)	
44	Black body(IC, PCB)	
45	Dull grey body(inductor, PCB)	
46	Yellow body(capacitor, PCB)	
47	Black body(diode, PCB)	
48	Black body with white printing(resistor, PCB)	
49	White body(LED, PCB)	
50	Green PCB	
51	Silvery solder(PCB)	

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 Report No.: U000021904241877
 Query Password: QW3066
 Date: May 27, 2019
 Page 5 of 12

 Material No.
 Description (Location)
 Photo(s) of tested materials

 52
 Brown body(EC, PCB)
 52

Test Result(s):

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

<u>Test Method:</u> 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 No	ED)	(RF Resu	ılt ⁽¹⁾	alle	Chemical Result ⁽²⁾ (mg/kg)		Mr Mr
No.	Pb	Cd	Hg	Cr	Br		Remark ⁽³⁾	Conclusion
1	BL	BL	BL	BL	BL	1 - 1	1 - 1	PASS
2	BL	BLS	BL	BL	NA	20. 20. 2	v. 70. 1	PASS
3	BL	BL	BL	BL	NA	the - the	k k.	PASS
4	BLO	BL	BL	BL	NA	John John M	h. Dr.	PASS
5	BL	BL	BL	BL	NA	1. <u> </u>	· - ·	PASS
6	BL	BL	BL	BL	NA	10 MIC	Mr. OHr	PASS
7	BL	BL	BL	BL	BL	2 2 2	2	PASS
8	BL	BL	BL	BL	BL	Mr - Mr	the the	PASS
9	BL	BL	BL	BL	BL	2 2 3	120	PASS
10	🔬 BL	BL	BL	BL	BL	<u> </u>	12-12	PASS
11	BL	BLS	BL	BL	BL	10. 20. 2	5 - 1 <u>0</u>	PASS
12	BL	BL	BL	BL	BL	4 4.	4 4.	PASS
13	BLO	BL	BL	BL	BL	10 ¹⁰	Van Polan	PASS
14	BL	BL	BL	BL	BL			PASS

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Report No.: U000021904241877

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Query Password: QW3066

Date: May 27, 2019

Page 6 of 12

5	100	EDX	(RF Res	ult ⁽¹⁾	5	Chemical Result ⁽²⁾		5 5
No.	Pb	Cd	Hg	Cr	Br	(mg/kg)	Remark ⁽³⁾	Conclusior
15	BL	BLS	BL	BL	BL	20. 20. 20	. Pu	PASS
16	BL	BL	BL	BL	BL	4 4.	4. - 4.	PASS
17	BLO	BL	BL	BL	NA	10 Mar 10 Mar 19	Mr. Phi	PASS
18	BL	BL	BL	BL	BL			PASS
19	BL	BL	BL	BL	BL	0. Mo. Mo.	Mr. OMr	PASS
20	BL	BL	BL	BL	NA	0. 0. 0	0	PASS
21	BL	BL	BL	BL	BL	1 - 1 - 1	14 - 14	PASS
22	BL	BL	BL	BL	BL	20. 20. 2	10	PASS
23	BL	BL	BL	BL	BL	se - se	& - &	PASS
24	BL	BLS	BL	BL	BL	10° 50° 10	e son	PASS
25	BL	BL	BL	BL	BL	0 - 0	0 - 0	PASS
26	BL	BL	BL	BL	NA	DI MOT MOL	Mr. Ohr	PASS
27	BL	BL	BL	BL	BL	2 2 2	<u> </u>	PASS
28	BL	BL	BL	BL	BL	ONE ONE	Mr -Mr	PASS
29	BL	BL	BL	BL	NA	2 Dr 2	0	PASS
30	BL	BL	BL	BL	BL	1 - 1 -	14- 14	PASS
31	BL	BLS	BL	BL	BL	20. 20. 20	· 6.	PASS
32	BL	BL	BL	BL	NA	30 - 30	10 - 30	PASS
33	BLO	BL	BL	BL	NA	Jon Jon Jo	he On	PASS
34	BL	BL	BL	BL	NA	6 - 6	6 - 6	PASS
35	BL	BL	BL	BL	BL	D. MOT. MO.	Mr. Jhr	PASS
36	BL	BL	BL	BL	NA	<u> </u>	2	PASS
37	BL	BL	BL	BL	NA	Mr - Mr	Mr -Mr	PASS
38	BL	BL	BL	BL	BL	2 2 2	10	PASS
39	BL	BL	BL	BL	NA	11 - 11	12- 12	PASS
40	BL	BLS	BL	BL	BL	20. 20. 20	, ² 0,	PASS
41 🚬	BL	BL	BL	BL	BL	4 - 4	2 - 2	PASS

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Report No.: U000021904241877

UONE

Query Password: QW3066 Date

Date: May 27, 2019

Page 7 of 12

5	20	ED)	(RF Resu	ult ⁽¹⁾		Chemical Result ⁽²⁾		5 5
No.	Pb	Pb Cd		Cr	Br	(mg/kg)	Remark ⁽³⁾	Conclusion
42	BL	BLS	BL	BL	BL	20. 20. 2	n Con	PASS
43	BL	BL	BL	BL	BL	Se Se.	4. ⁻ 4.	PASS
44	BL	BL	BL	BL	BL	10 m John 19	Mr. Dur.	PASS
45	BL	BL	BL	BL	BL			PASS
46	BL	BL	BL	BL	BL	0, 140, 140,	Mr. Ohr	PASS
47	BL	BL	BL	BL	BL	0. 0. 0.	0	PASS
48	BL	BL	BL	BL	BL	Alt - Alt	the the	PASS
49	BL	BL	BL	BL	BL	20. 20. 21	1. 10.	PASS
50	BL	BL	BL	BL	x	PBBs: N.D. PBDEs: N.D.	Nº - Mº	PASS
51	BL	BL	BL	BL	NA	2 2 2	100	PASS
52	BL	BL	BL	BL	BL	SU - SU	10 - 50	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 ≤(70-3σ)< X <(130+3σ)≤ OL	BL ≤(70-3σ)< X <(130+3σ)≤ OL	LOD < X <(150+3σ)≤ OL
Dh	BL ≤(700-3σ)< X <(1300+3σ)≤	BL ≤(700-3σ)< X <(1300+3σ)≤	BL ≤(500-3σ)< X
Pb	OL	OL	<(1500+3σ)≤ OL
~	BL ≤(700-3σ)< X <(1300+3σ)≤	BL ≤(700-3σ)< X <(1300+3σ)≤	BL ≤(500-3σ)< X
Hg	OL	OL	<(1500+3σ)≤ OL
Br	BL ≤ (300-3σ)< X	NA	BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X
	N. N. N.	N N N N	

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

Element Pb Cd Hg	Cr(VI) PBBs(single) PBDEs(single)
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Report No.: U000021904241877

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Query Password: QW3066 Date: May 27, 2019 Page 8 of 12

Vunit 👋	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

③According 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 🔬	
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	Conclusion
RL (mg/kg)	30 0	30	30	30	
Material No.					
0 ¹¹ 1.0 ¹¹	N.D.	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
9	N.D.	N.D.	N.D.	N.D.	PASS
10	N.D.	N.D.	N.D.	🔨 N.D. 🔬	PASS
JOT 11 JOT	N.D.	N.D. 9	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

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Report No.: U000021904241877

UONE

Query Password: QW3066

Date: May 27, 2019

Page 9 of 12

Substances CAS No. Limit (mg/kg) RL (mg/kg)	DBP 84-74-2 1000 30	BBP 85-68-7 1000 30	DEHP	DIBP 84-69-5 1000 30	Conclusion						
			117-81-7 1000 30								
						Material No.	Result (mg/kg)				101, 1901,
						15	N.D.	N.D.	N.D.	N.D.	PASS
16	N.D.	N.D.	N.D.	N.D.	PASS						
18	N.D.	N.D.	N.D.	N.D.	PASS						
19	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						
27	N.D.	N.D.	N.D.	N.D.	PASS						
28	N.D.	N.D.	N.D.	N.D.	PASS						
30	N.D.	N.D.	N.D.	N.D.	PASS						
31	N.D.	N.D.	N.D.	N.D. 💉	PASS						
35	N.D.	N.D.	N.D.	N.D.	PASS						
38	N.D.	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	N.D.	N.D.	N.D.	N.D.	PASS						
43	N.D.	N.D.	N.D.	N.D.	PASS						
44	N.D.	N.D.	N.D.	N.D.	PASS						
45	N.D.	N.D.	N.D.	N.D.	PASS						
46	N.D.	N.D.	N.D.	🔨 N.D. 🔬	PASS						
47	N.D.	N.D.	N.D.	N.D.	PASS						
48	N.D.	N.D.	N.D.	N.D.	PASS						

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Query Password: QW3066 Report No.: U000021904241877 Date: May 27, 2019 Substances DBP BBP DEHP DIBP CAS No. 84-74-2 85-68-7 117-81-7 84-69-5 1000 Conclusion Limit (mg/kg) 1000 1000 1000 RL (mg/kg) 30 30 30 30 Material No. Result (mg/kg) 49 PASS N.D. N.D. N.D. N.D. 50 N.D. N.D. N.D. N.D. PASS 52 N.D. N.D. N.D. N.D. PASS

Note:

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mg/kg = milligram per kilogram (ppm). 1.

2. RL = report limit.

N.D.=not detected(less than RL). 3.

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Report No.: U000021904241877

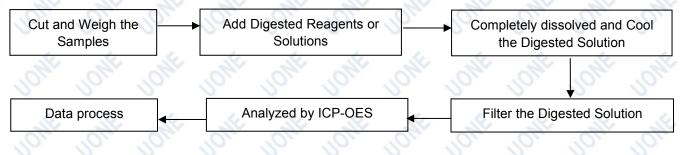
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Query Password: QW3066 Date: May 27, 2019

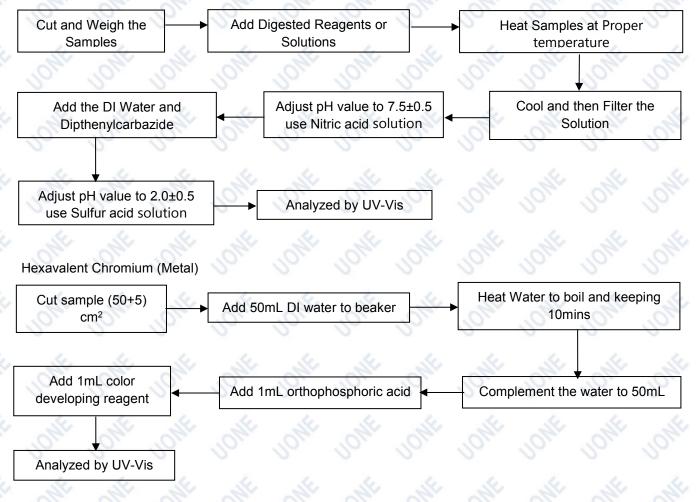
9 Page 11 of 12

Test Process Flow

1. Lead, Cadmium, Mercury



2. Hexavalent Chromium (Non-metal)



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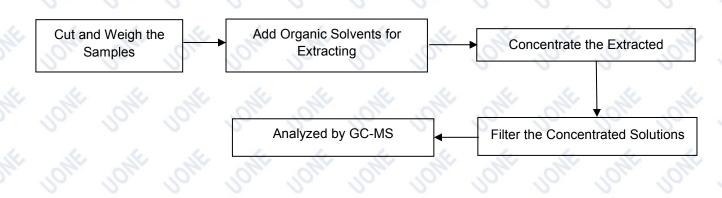
Report No.: U000021904241877

UONE

Query Password: QW3066 Da

Date: May 27, 2019 Page 12 of 12

Test Process Flow (Continued): 3. PBBs & PBDEs, Phthalates



Photo(s) of Sample:



End of Report

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