

Test Report

Report No.: CTT190512243EN

Date: May 31, 2019

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Applicant: DONGGUAN TOGRAN ELECTRONICS CO.,LTD

Address: SHIDAN ROAD 262, THE 3RD INDUSTRIAL AREA, JUZHOU, SHIJIE TOWN, DONGGUAN, GUANGDON(523290), P.R.C

Sample Received Date: May 16, 2019

Completed Date: May 31, 2019

The following merchandise was (were) submitted and identified on behalf of the applicant as:

Sample Name: MOUSE

Sample Model: TM209G

Test Result(s): Please refer to next page(s).

Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Tested materials of submitted samples	RoHS Directive 2011/65/EU and its subsequent amendments 2015/863/EU	PASS

Signed for and on Behalf of CTT



Hilary He / Technical Manager
Consumer Testing Technology Co., Ltd.

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Test Result(s):

RoHS - Lead (Pb)/Cadmium(Cd)/Mercury(Hg)/Hexavalent Chromium(Cr⁶⁺)/PBBs/PBDEs

Method:

With reference to IEC 62321-3-1:2013, screening by EDXRF Spectroscopy.

Lead (Pb)/Cadmium(Cd) - With reference to IEC 62321-5: 2013, analyzed by AAS & ICP-OES.

Mercury(Hg) - With reference to IEC 62321-4: 2013/AMD1: 2017, analyzed by AAS & ICP-OES.

Hexavalent Chromium(Cr⁶⁺) – Polymers: With reference to IEC 62321-7-2: 2017, analyzed by UV-Vis.

Hexavalent Chromium(Cr⁶⁺) – Colourless and coloured corrosion-protected coatings on metals

With reference to IEC 62321-7-1:2015

PBBs/PBDEs - With reference to IEC 62321-6: 2015, analyzed by GC-MS.

Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
1	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
2	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
3	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
4	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
5	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
6	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
7	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	OL	N.D.	PASS
	Cr ⁶⁺	IN	Negative	PASS
	PBBs	--	--	--
	PBDEs		--	--
8	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
9	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
10	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
11	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
12	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
13	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
14	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
15	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
16	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
17	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
18	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
19	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
20	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
21	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
22	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
23	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	IN	Negative	PASS
	PBBs	--	--	--
	PBDEs		--	--
24	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
25	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
26	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
27	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
28	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
29	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
30	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
31	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
32	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
33	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
34	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
35	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
36	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
37	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
38	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
39	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
40	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
41	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
42	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
43	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
44	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	IN	Negative	PASS
	PBBs	--	--	--
	PBDEs		--	--

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Material No.	Substances	EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
45	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
46	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
47	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	IN	Negative	PASS
	PBBs	--	--	--
	PBDEs		--	--
48	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--
49	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	--	--	--
	PBDEs		--	--

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50	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (<RL).
 3. RL(Reporting Limit): 2 mg/kg for Pb/ Cd/ Hg/ Cr⁶⁺(Nonmetal material); 5 mg/kg for PBBs & PBDEs.
 4. (Negative) = Absence of Cr⁶⁺. the detected concentration in boiling-water-extraction solution is less than 0.10 ug/cm² with 50 cm² sample surface area.
 5. (Positive) = Presence of Cr⁶⁺: the detected concentration in boiling-water-extraction solution is greater than 0.13 ug/cm² with 50 cm² sample surface area.
 6. "*" = It is the result on total Cr and Br while test substances are Cr⁶⁺ and PBBs & PBDEs.
 7. "#" = Result are obtained by EDXRF for primary screening, if the result exceeds the below limit (BL), and further chemical testing.

Screening limits in mg/kg for regulated elements in various matrices

Elements	Polymer	Metal	Composite Materials
Pb	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(500-3σ)<X<(1500+3σ)≤ OL
Cd	BL≤(70-3σ)<X<(130+3σ)≤ OL	BL≤(70-3σ)<X<(130+3σ)≤ OL	LOD<X<(150+3σ)≤OL
Hg	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(500-3σ)<X<(1500+3σ)≤ OL
Cr	BL≤(700-3σ)<X	BL≤(700-3σ)<X	BL≤(500-3σ)<X
Br	BL≤(300-3σ)<X	--	BL≤(250-3σ)<X

BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection

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Test Result(s):

Phthalates

Method: IEC 62321-8:2017, analyzed by Gas Chromatograph-Mass Spectrometry (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)	50	50	50	50	
Material No.	Result (mg/kg)				
1+2+3	N.D.	N.D.	N.D.	N.D.	PASS
4+6+10	N.D.	N.D.	N.D.	N.D.	PASS
5	N.D.	N.D.	N.D.	N.D.	PASS
13+15+32	N.D.	N.D.	N.D.	N.D.	PASS
16+17	118	N.D.	N.D.	N.D.	PASS
18+19	N.D.	N.D.	N.D.	N.D.	PASS
22+24+26	N.D.	N.D.	N.D.	N.D.	PASS
27+30+31	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.
 4. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

Test Material List

Material No.	Description	Location
1	Black plastic with transparent coating	Mouse shell (outside)
2	Black plastic	Mouse shell (outside) /mouse lining
3	Black plastic	Mouse bottom
4	Black plastic	Key
5	Black silicone	Idler wheel
6	Black plastic with glue	Gasket
7	Silvery metal	Crystal oscillator
8	Silvery metal	Screw
9	Silvery metal	With cap screw

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10	Transparent plastic	LED cover
11	Silvery metal	Battery wafer spring
12	Silvery metal	Battery wafer
13	White plastic	Terminal pedestal
14	Silvery metal	Terminal pedestal pins
15	White plastic	Terminal
16	Grey plastic with purple/black printing	Cable ecderon
17	Black soft plastic with white printing	Electric wire ecderon
18	Green soft plastic	Electric wire ecderon
19	Red soft plastic	Electric wire ecderon
20	Silvery metal	Covered button
21	Silvery metal	Electric wire
22	Black plastic	Button pedestal (square)
23	Silvery metal	Button lining wafer (square)
24	Red plastic	LED
25	Silvery metal	LED pins
26	Black plastic	Button pedestal (rectangle)
27	Grey plastic	Button pedestal (rectangle)
28	Coppery metal	Button lining (rectangle)
29	Silvery metal	Button pins (rectangle)
30	Black plastic	USB shell
31	Black plastic	USB lining
32	Brown plastic with green/white printing	PCB
33	Silvery metal	USB shell
34	Dark grey metal	Inductance
35	Coppery metal	Coil
36	Brown ceramic	Chip capacitor
37	White whiteware	Chip capacitor
38	Black ceramic	Audion
39	White ceramic with black printing	Chip resistor
40	Silvery metal	Sensor pins
41	Silvery metal	Welding spot
42	Silvery metal	Slide switch shell
43	Silvery metal	Slide switch lining wafer (short)

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Test Report

Report No.: CTT190512243EN

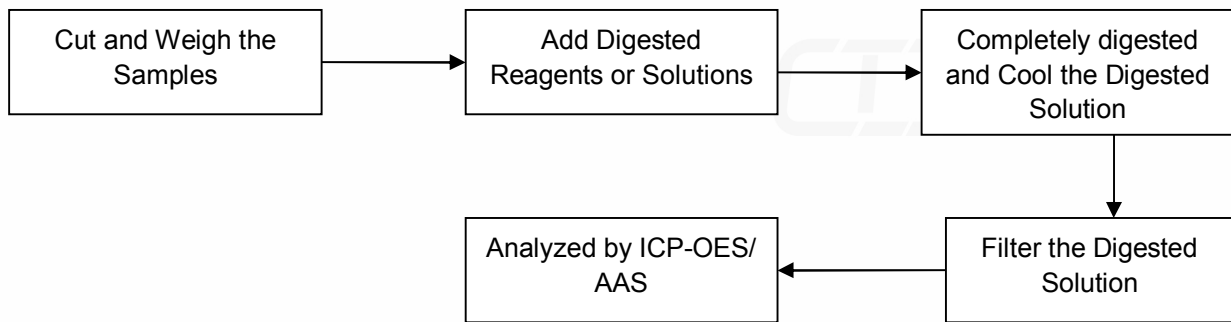
Date: May 31, 2019

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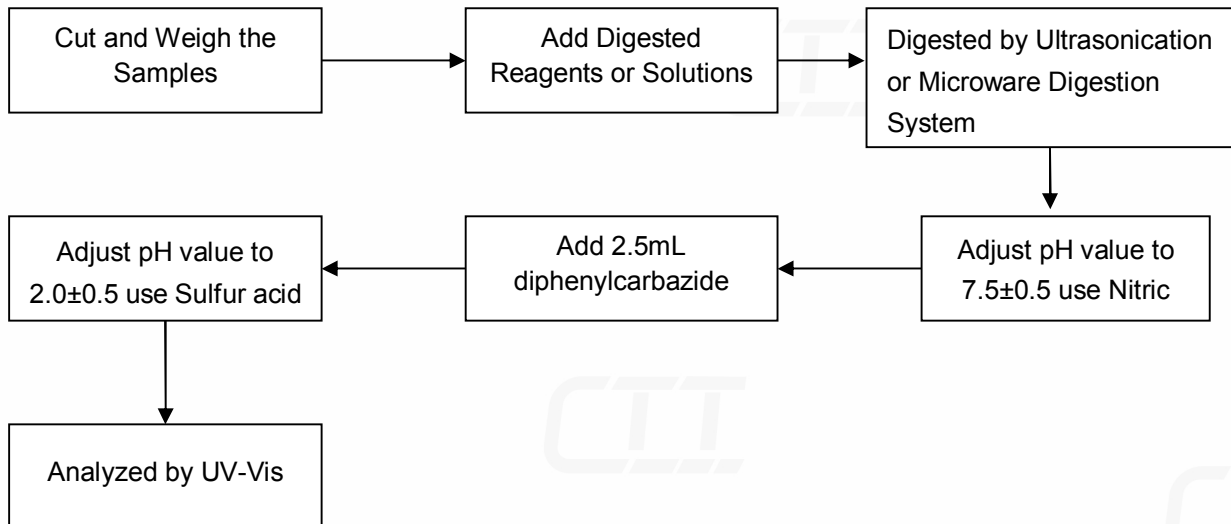
44	Silvery metal	Slide switch lining wafer (long)
45	Silvery metal	Slide switch pins
46	Silvery metal	Idler wheel fixed part shell
47	Silvery metal	Idler wheel fixed part lining gasket
48	Coppery metal	Small idler wheel lining
49	Slivery/golden metal	Idler wheel fixed part pins
50	Grey green glass	Sensor piece

Test Process Flow:

1. Lead, Cadmium, Mercury



2. Hexavalent Chromium (Non-metal)



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Test Report

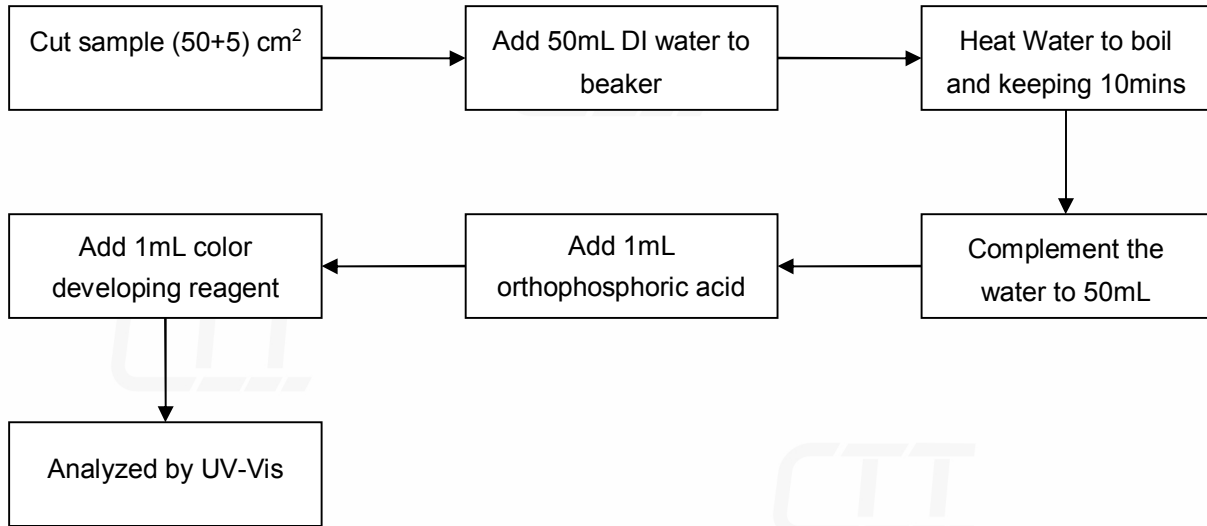
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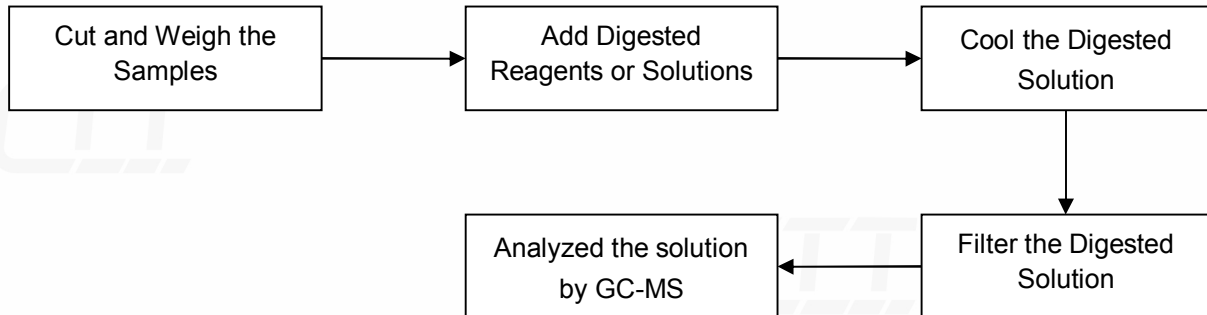
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Test Process Flow:

3. Hexavalent Chromium (Metal)



4. PBBs & PBDEs



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Test Process Flow:

5. Phthalates

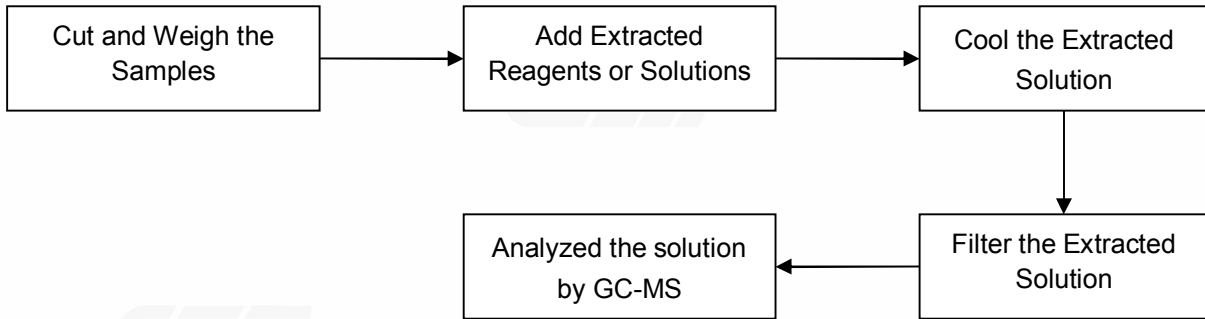


Photo of Sample:



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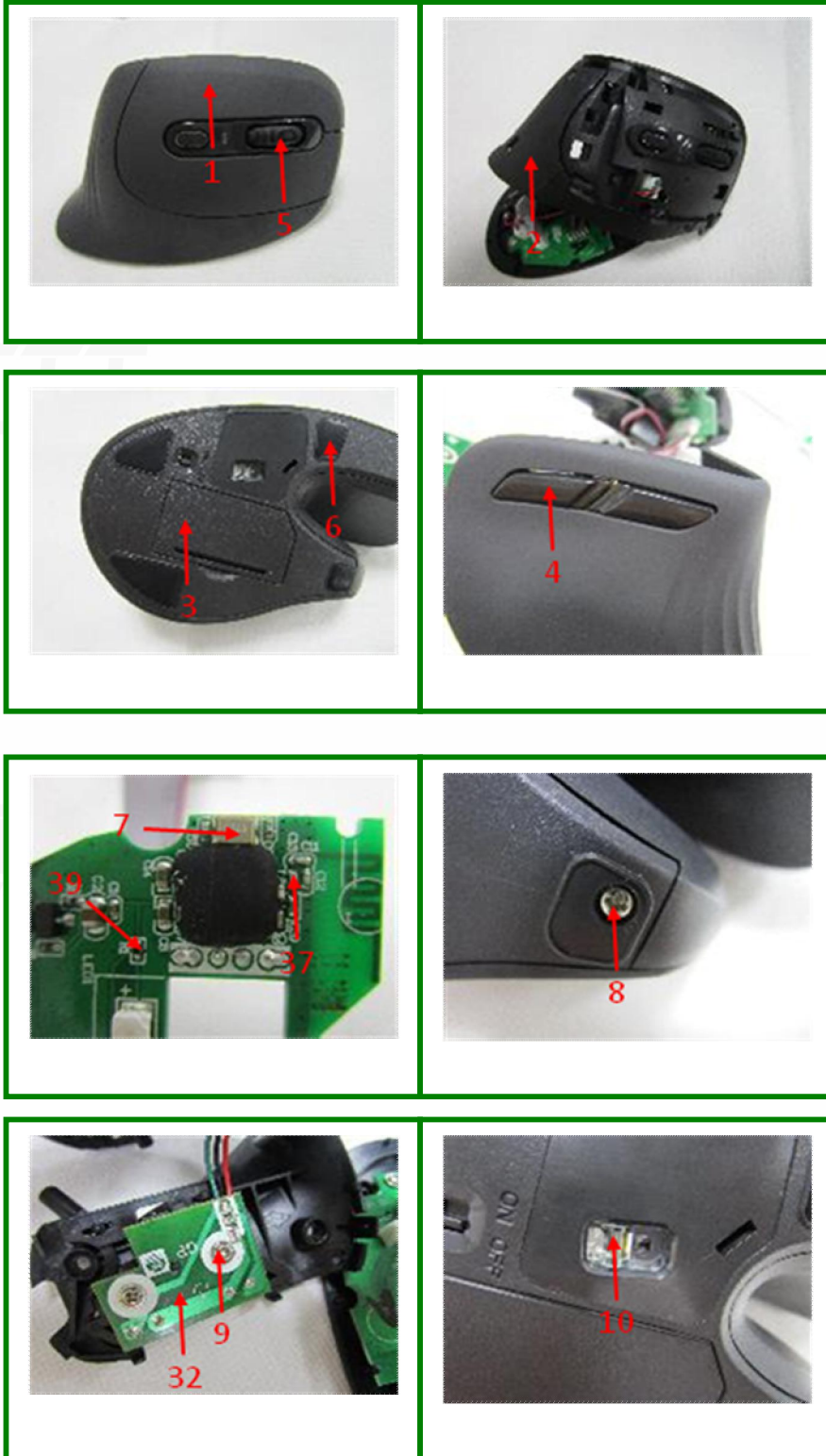
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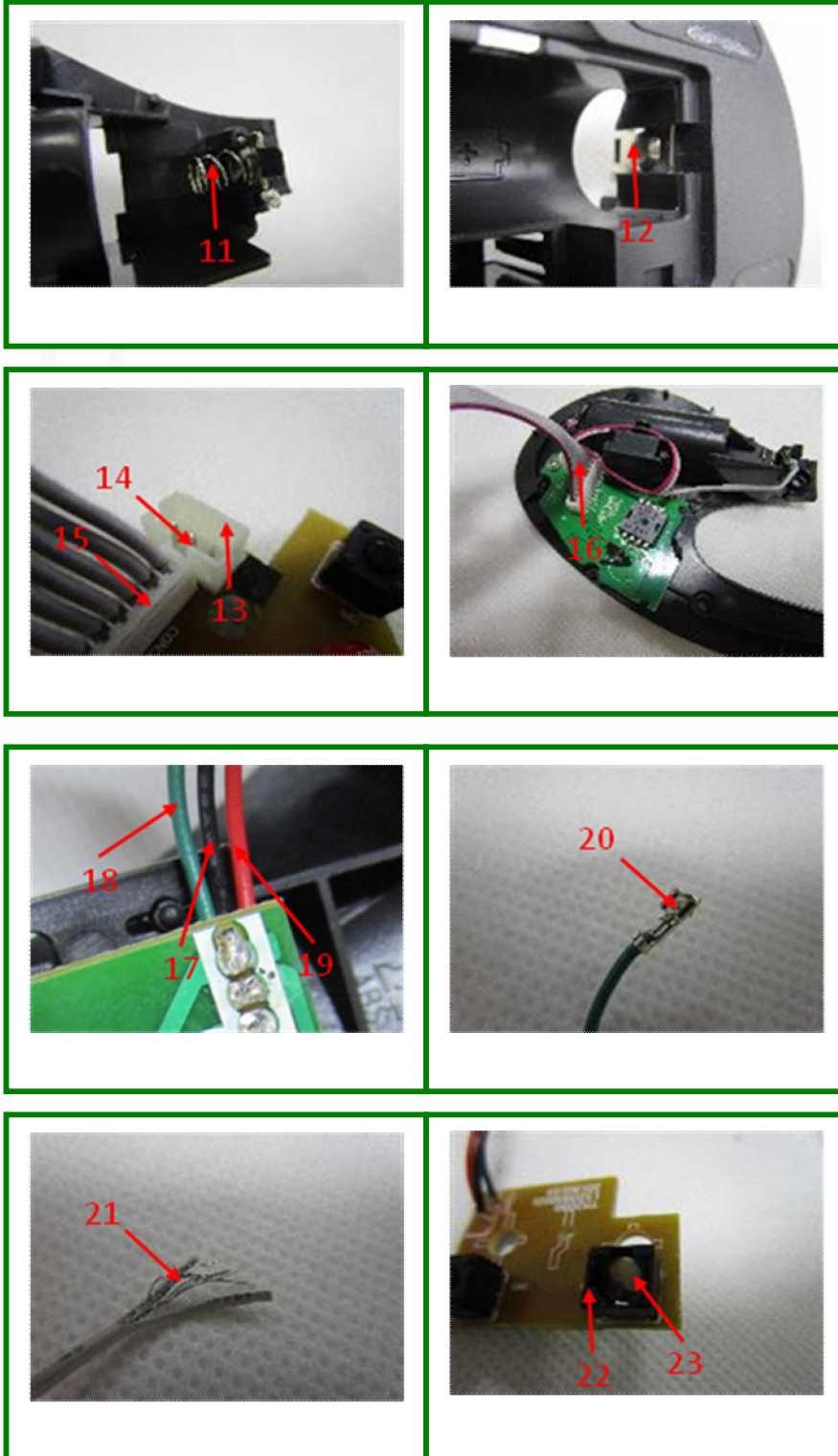
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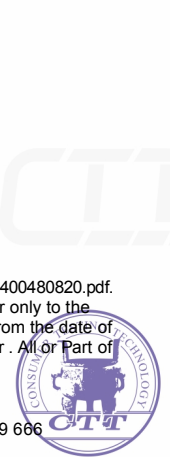
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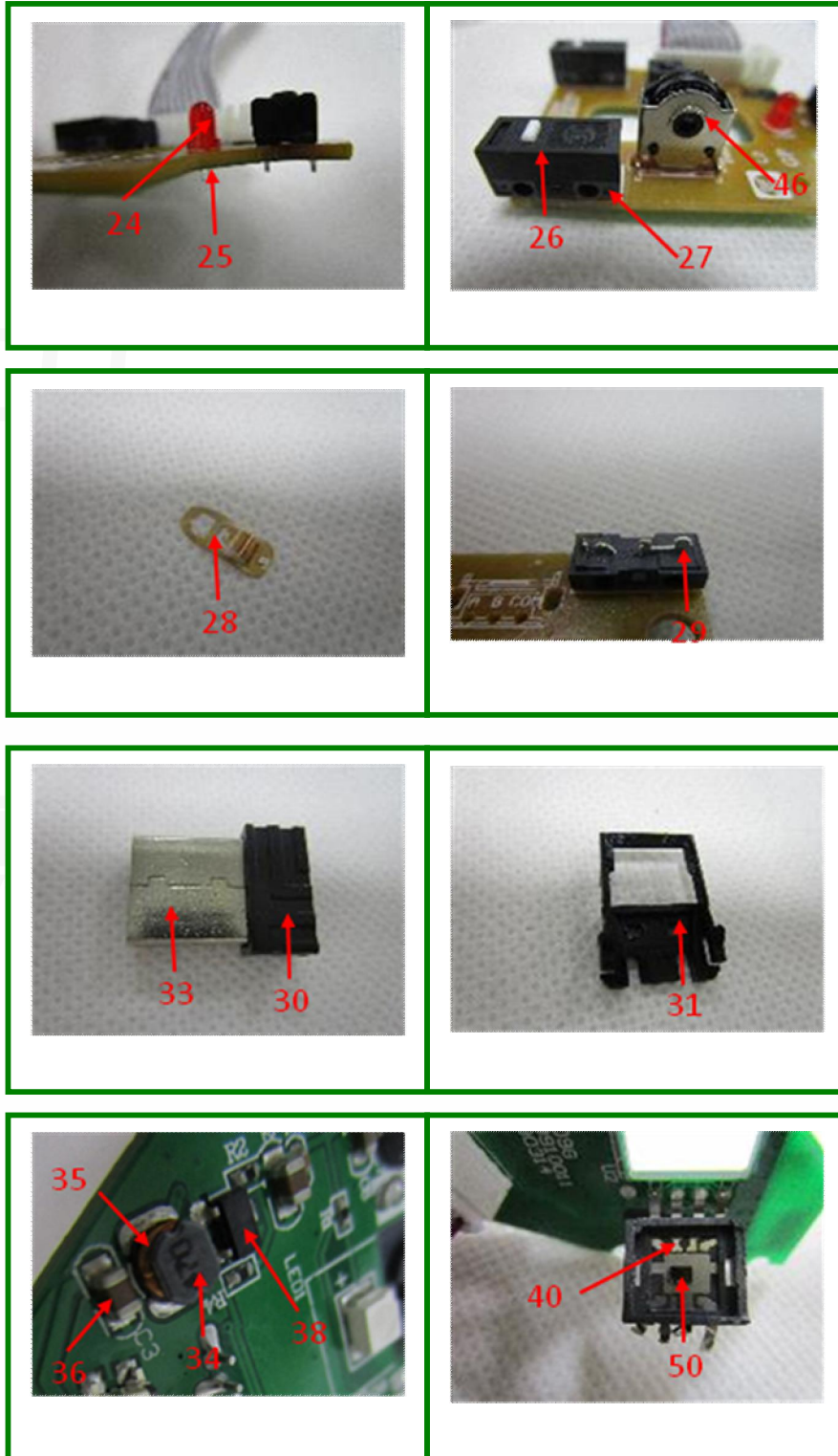
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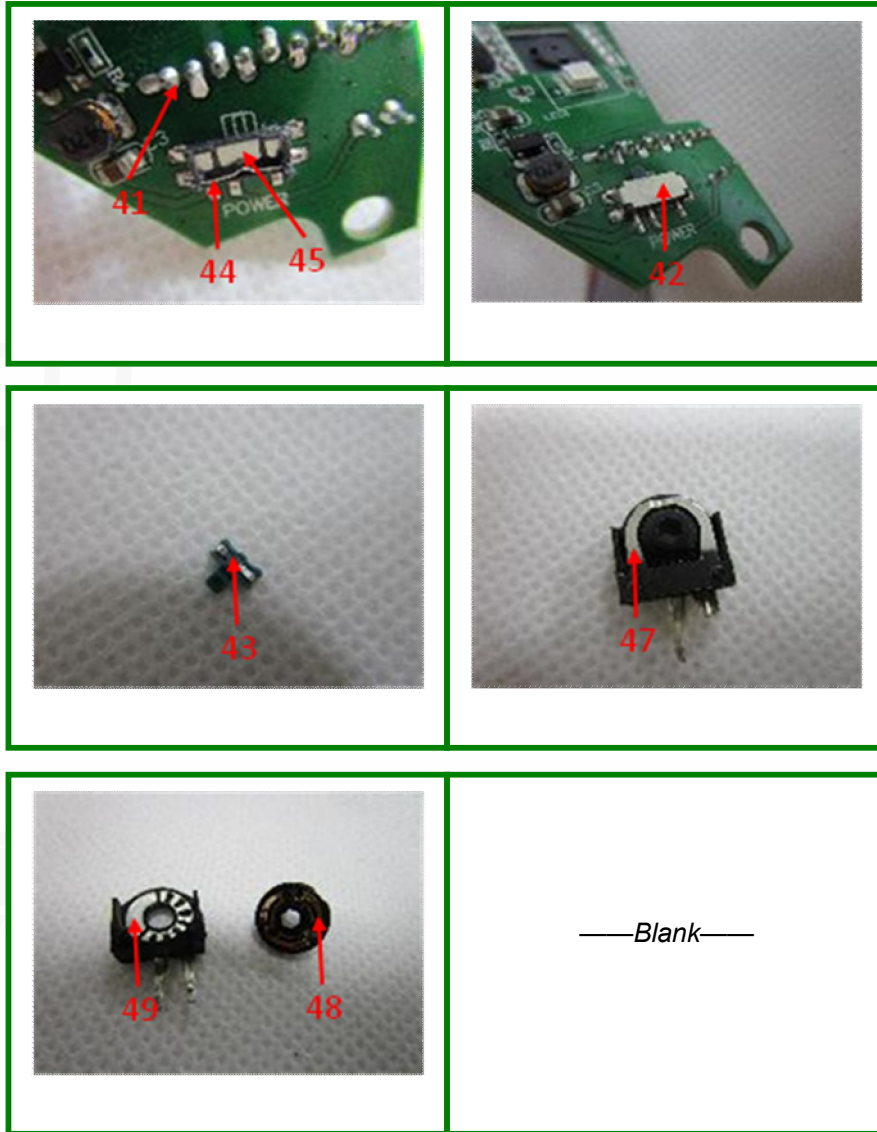
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End of Report

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