



# Test Report

Report No.: CTL2008281091-R

Date: Sep. 11, 2020

Page 1 of 11

**Applicant:** Shenzhenshi Ruisixiang Technology limited

**Contact information:** 4/F,Block E, Guancheng Hi-Tech Park, NO.37 Zhen Xing Road ,Lou Village, Gong Ming Town, Guang Ming new District, Shenzhen, China

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

Sample Name : MASSAGER GUN  
Model No. : K1, L1, SM-420  
Trade mark : JETBUS  
Manufacturer : Shenzhenshi Ruisixiang Technology limited  
Address : 4/F,Block E, Guancheng Hi-Tech Park, NO.37 Zhen Xing Road ,Lou Village, Gong Ming Town, Guang Ming new District, Shenzhen, China  
Sample Received Date : Sep. 02, 2020  
Testing Period : From Sep. 02, 2020 to Sep. 11, 2020  
Test Request : Please refer to next page(s).  
Test Result(s) : Please refer to next page(s).

Written by: *Jessica wh*

Approved by:



# Test Report

Report No.: CTL2008281091-R

Date: Sep. 11, 2020

Page 2 of 11

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**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.: CTL2008281091-R

Date: Sep. 11, 2020

Page 3 of 11

## Test Material List

Material No.	Description (Location)	Photo(s) of tested materials
1	Blue rubber pad	
2	Grey plastic (case)	
3	Grey coated metal mesh	
4	Silver metal (fixed ring)	
5	Metal with black coating (fixed ring)	
6	Black rubber (sheath)	
7	Black plastic (connector)	
8	Black foam	
9	Black plastic with white print (capacitor, PCB)	
10	Silver metal case (Capacitor, PCB)	
11	Black rubber base (Capacitor, PCB)	
12	Silver metal pin (Capacitor, PCB)	
13	Silver foil (Capacitor, PCB)	
14	Dark silver foil (Capacitor, PCB)	
15	Yellow paper with liquid (capacitor, PCB)	
16	Black plastic cover	
17	Black body (Diode, PCB)	
18	White plastic (terminal case)	
19	Brown body (Capacitor, PCB)	
20	Black body (triode, PCB)	
21	Black body (Resistor, PCB)	
22	Black body (INTEGRATED Circuit, PCB)	

Shenzhen CTL Testing Technology Co., Ltd.

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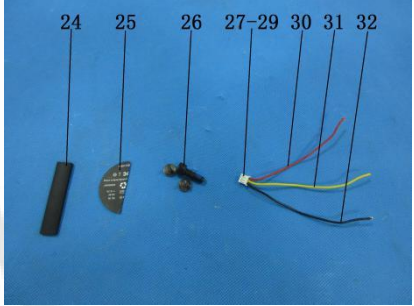
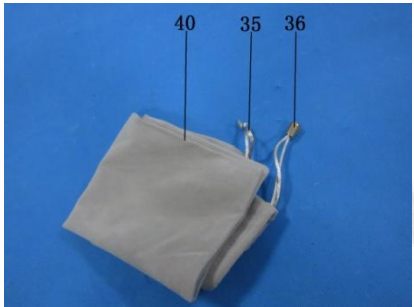
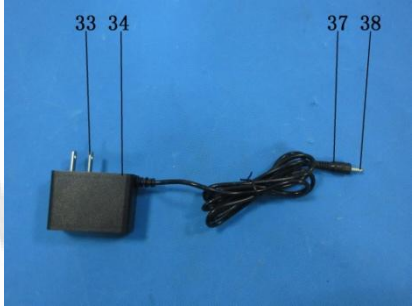
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# Test Report

Report No.: CTL2008281091-R

Date: Sep. 11, 2020

Page 4 of 11


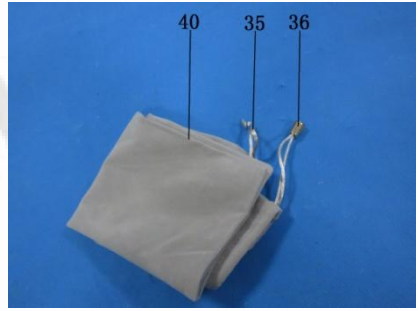
Material No.	Description (Location)	Photo(s) of tested materials	
23	Green PCB		
24	Black rubber pad		
25	Black label		
26	Metal (screw) with black coating		
27	White plastic (terminal case)		
28	Silver metal (pin)		
29	Silver metal (wire)		
30	Red plastic (cable)		
31	Yellow plastic (cable)		
32	Black plastic (cable)		
33	Silver metal (plug)		
34	Black plastic case		
35	Silver fabric (rope)		
36	Metal buckle with copper coating		
37	Black plastic (plug)		
38	Silver metal (socket)		

# Test Report

Report No.: CTL2008281091-R

Date: Sep. 11, 2020

Page 5 of 11

Material No.	Description (Location)	Photo(s) of tested materials
39	Black plastic (case)	
40	Brown fabric (bag)	

## 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 <sup>(1)</sup>					Chemical Result <sup>(2)</sup> (mg/kg)	Remark <sup>(3)</sup>	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	NA	—	—	PASS
4	BL	BL	BL	BL	NA	—	—	PASS
5	BL	BL	BL	BL	NA	—	—	PASS
6	BL	BL	BL	BL	BL	—	—	PASS
7	BL	BL	BL	BL	BL	—	—	PASS

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# Test Report

Report No.: CTL2008281091-R

Date: Sep. 11, 2020

Page 6 of 11

No.	EDXRF Result <sup>(1)</sup>					Chemical Result <sup>(2)</sup> (mg/kg)	Remark <sup>(3)</sup>	Conclusion
	Pb	Cd	Hg	Cr	Br			
8	BL	BL	BL	BL	BL	—	—	PASS
9	BL	BL	BL	BL	BL	—	—	PASS
10	BL	BL	BL	BL	NA	—	—	PASS
11	BL	BL	BL	BL	BL	—	—	PASS
12	BL	BL	BL	BL	NA	—	—	PASS
13	BL	BL	BL	BL	NA	—	—	PASS
14	BL	BL	BL	BL	NA	—	—	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	BL	—	—	PASS
23	BL	BL	BL	BL	BL	—	—	PASS
24	BL	BL	BL	BL	BL	—	—	PASS
25	BL	BL	BL	BL	BL	—	—	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	NA	—	—	PASS
30	BL	BL	BL	BL	BL	—	—	PASS
31	BL	BL	BL	BL	BL	—	—	PASS
32	BL	BL	BL	BL	BL	—	—	PASS
33	BL	BL	BL	BL	NA	—	—	PASS

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# Test Report

Report No.: CTL2008281091-R

Date: Sep. 11, 2020

Page 7 of 11

No.	EDXRF Result <sup>(1)</sup>					Chemical Result <sup>(2)</sup> (mg/kg)	Remark <sup>(3)</sup>	Conclusion
	Pb	Cd	Hg	Cr	Br			
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	BL	—	—	PASS
38	BL	BL	BL	BL	NA	—	—	PASS
39	BL	BL	BL	BL	BL	—	—	PASS
40	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	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

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.

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# Test Report

Report No.: CTL2008281091-R

Date: Sep. 11, 2020

Page 8 of 11

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.

## (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)				
1	N.D.	N.D.	218	N.D.	PASS
2	N.D.	N.D.	N.D.	N.D.	PASS
6	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
11	N.D.	N.D.	N.D.	N.D.	PASS
15	N.D.	N.D.	N.D.	N.D.	PASS
16	N.D.	N.D.	N.D.	N.D.	PASS
17	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
20	N.D.	N.D.	N.D.	N.D.	PASS

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# Test Report

Report No.: CTL2008281091-R

Date: Sep. 11, 2020

Page 9 of 11

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)				
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
30	N.D.	N.D.	N.D.	N.D.	PASS
31	N.D.	N.D.	N.D.	N.D.	PASS
32	N.D.	N.D.	N.D.	N.D.	PASS
34	N.D.	N.D.	N.D.	N.D.	PASS
35	N.D.	N.D.	N.D.	N.D.	PASS
37	N.D.	N.D.	N.D.	N.D.	PASS
39	N.D.	N.D.	N.D.	N.D.	PASS
40	N.D.	N.D.	N.D.	N.D.	PASS

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

# Test Report

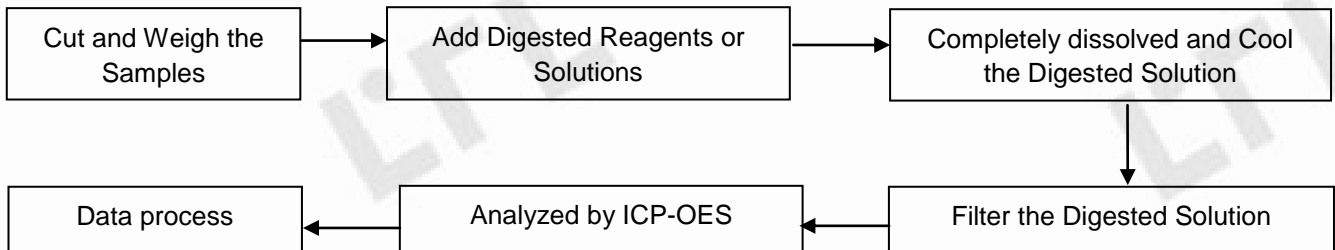
Report No.: CTL2008281091-R

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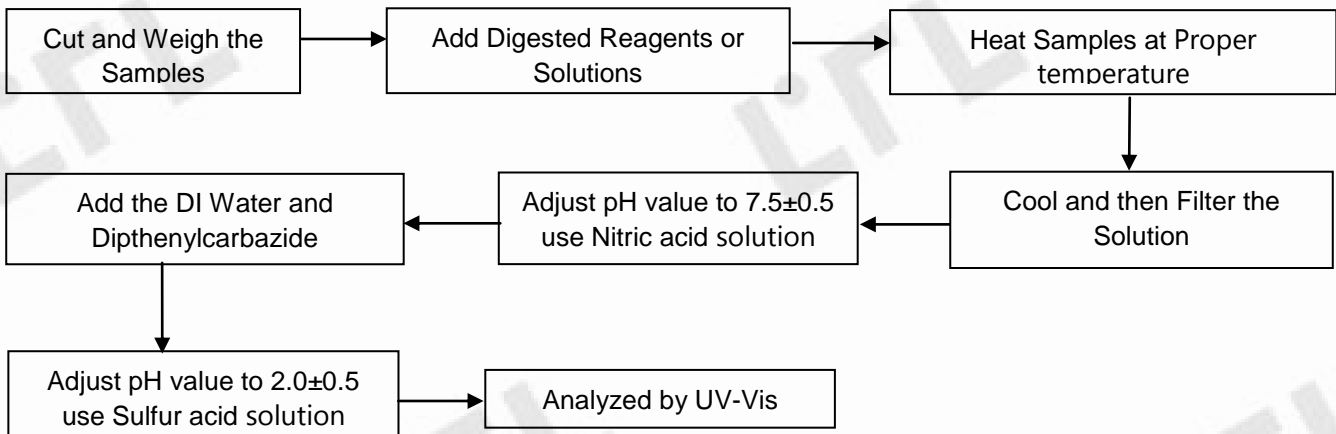
Page 10 of 11

## Test Process Flow

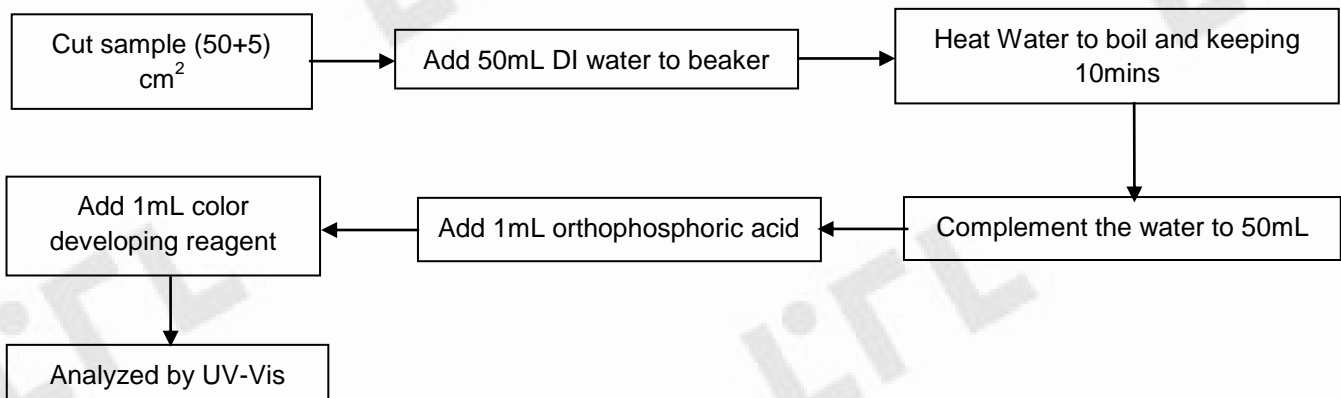
### 1. Lead, Cadmium, Mercury



### 2. Hexavalent Chromium (Non-metal)



### Hexavalent Chromium (Metal)



# Test Report

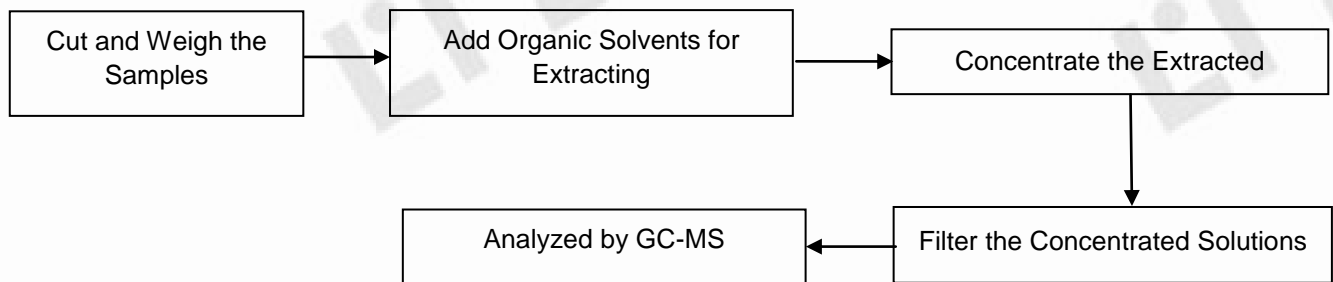
Report No.: CTL2008281091-R

Date: Sep. 11, 2020

Page 11 of 11

## Test Process Flow (Continued):

### 3. PBBs & PBDEs, Phthalates



## Photo(s) of Sample:



\*\*\*End of Report\*\*\*