


# TEST REPORT

Company Name Hunter Douglas Europe B.V.  
Shown on Report:  
Address: Blaak 555,3011 GB Rotterdam, The Netherlands

**The following sample(s) was/were submitted and identified on behalf of the client as:**

Sample Name: Remote controller  
Sample Model: RW14-G2,ID: 17.0915.0000/17.0961.0000  
Manufacturer: Shenzhen BOFU Smart Co., Ltd  
Address: 7 floor, No. 92, Tuopu Industrial Zone, Lingxia  
Road, Bao'an District, Shenzhen  
Sample quantity: 3 PCS  
Sample Received Date: Aug.05, 2024  
Test Period: Aug.05, 2024 – Aug.13, 2024  
Date of Issue: Aug.23, 2024

**ISSUED BY:**   
**GUANGDONG TI COBO TESTING CO.,LTD.**

**Tested by:** Jason **Checked by:** Lily **Approved by:** Sam Xie  
  

Anti-counterfeiting code: k8j4

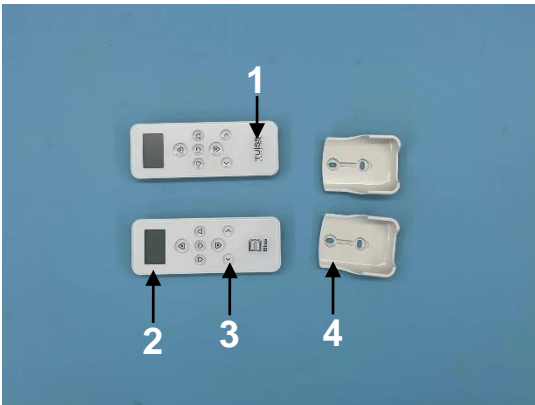
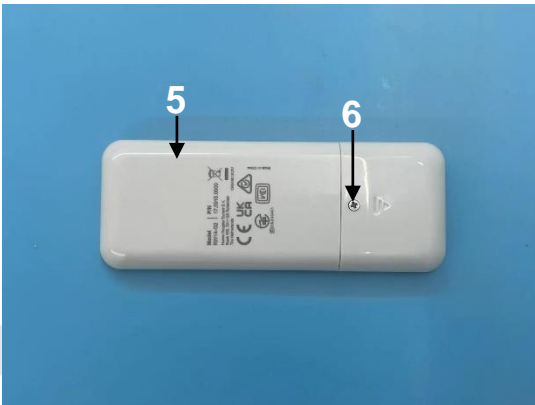
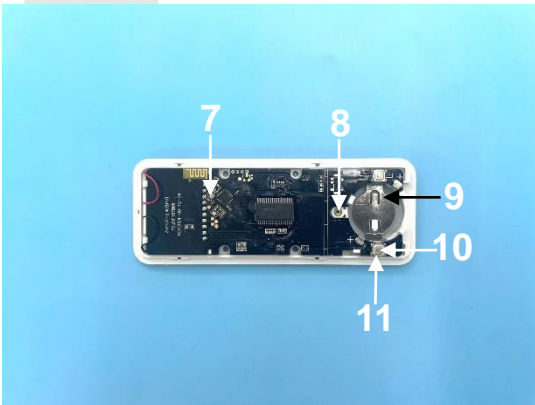
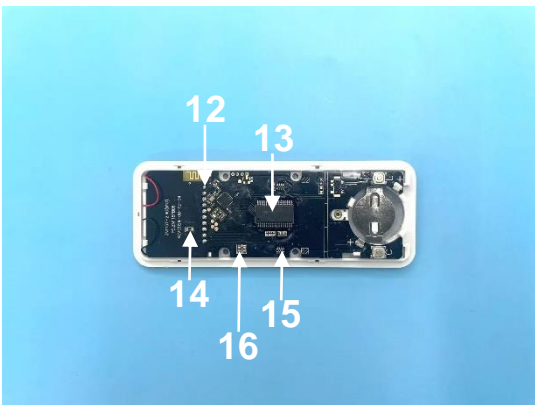
**1. Test Requested and Test Conclusion:**

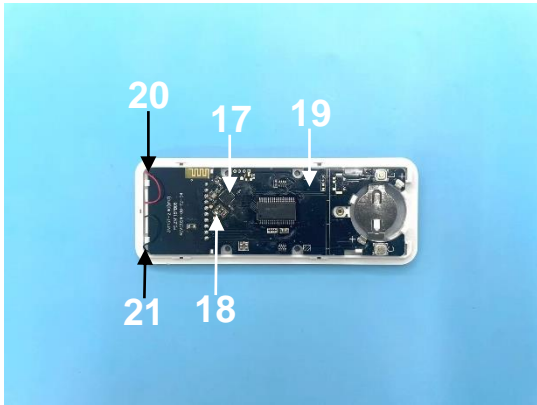
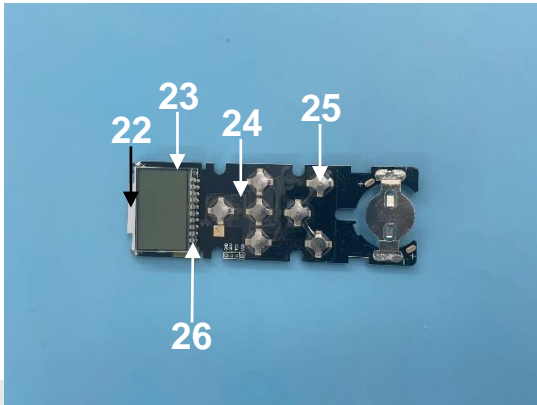
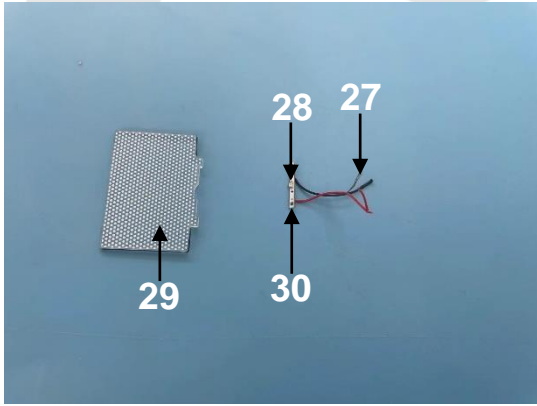
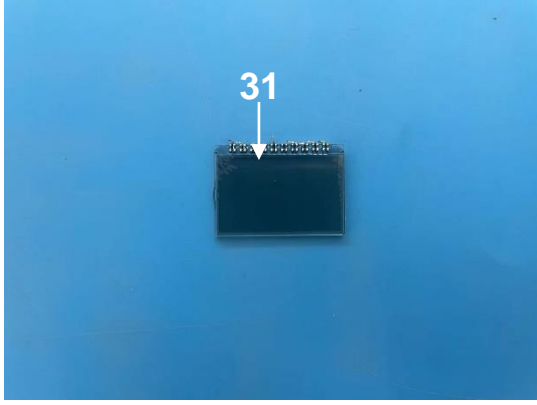
Based on the performed tests on specified material(s) or submitted sample(s).

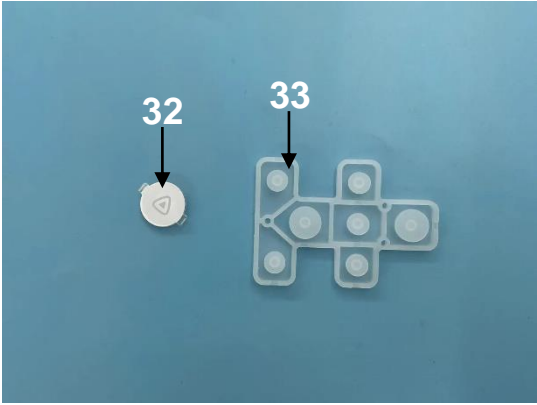

Test items	Conclusion
RoHS Directive 2011/65/EU Revised instructions (EU) 2015/863 of the European parliament and of the council on the restriction of the use of certain hazardous substances in electrical and electronic equipment	
- Lead (Pb)/ Cadmium(Cd)/ Mercury(Hg)/ Hexavalent Chromium(Cr <sup>6+</sup> ) content.	PASS
- Polybrominated biphenyls (PBBs) & Polybrominated diphenyl ethers (PBDEs) content.	PASS
- Dibutyl phthalate (DBP), Benzylbutyl phthalate (BBP), Di-(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate(DIBP) content	PASS
The European Commission officially announced Directive (EU)2023/1542 on batteries, batteries, waste batteries and waste batteries on July 28, 2023. Simultaneously replacing and abolishing the original battery directive 2006/66/EC.	
- Content of Lead (Pb), Cadmium (Cd) and Mercury (Hg) content	PASS



## 2. Sample description and sample photo list:

Sample No.	Description	Sample photo
1	Black coating	
2	Transparent plastic	
3	Transparent plastic	
4	White plastic	
5	White plastic	
6	Silvery metal	
7	Silvery metal	
8	Golden metal	
9	Silvery metal	
10	Golden metal	
11	Silvery metal	
12	Soldering tin	
13	Black crystal	
14	Black resistor	
15	Black resistor	
16	Brown capacitor	

17	Black crystal	
18	White capacitor	
19	PCB	
20	Red soft plastic	
21	Black soft plastic	
22	White plastic	
23	Gray transparent plastic	
24	Transparent plastic	
25	Silvery metal	
26	Silvery metal	
27	Silvery metal	
28	White plastic	
29	White plastic	
30	PCB	
31	Transparent glass	

32	White coating	
33	White plastic	
34	Battery	

### 3. Test Result(s)

#### 3.1 Screening Test

Test Method: With reference to IEC 62321-3-1:2013, Screening –Lead (Pb)/ Cadmium(Cd)/ Mercury(Hg)/ Total Chromium(Cr)/ Total Bromine by X-ray fluorescence spectrometry.

Test Item	Total Chromium (Cr)	Cadmium (Cd)	Total Bromine (Br)	Mercury (Hg)	Lead (Pb)
Screening Limit	200mg/kg	50mg/kg	200mg/kg	200mg/kg	200mg/kg
Material No.	XRF Result				
1	BL	BL	BL	BL	BL
2	BL	BL	BL	BL	BL
3	BL	BL	BL	BL	BL
4	BL	BL	BL	BL	BL
5	BL	BL	BL	BL	BL
6	93142 <sup>a</sup>	BL	NA	BL	BL
7	BL	345 <sup>a</sup>	NA	BL	2599 <sup>a</sup>
8	300 <sup>a</sup>	BL	NA	BL	20307 <sup>a</sup>
9	BL	57 <sup>a</sup>	NA	BL	BL
10	BL	209 <sup>a</sup>	NA	BL	353 <sup>a</sup>
11	25822 <sup>a</sup>	BL	NA	BL	898 <sup>a</sup>
12	BL	BL	NA	BL	BL
13	BL	BL	BL	BL	BL
14	BL	BL	BL	BL	BL
15	BL	BL	BL	BL	BL
16	BL	BL	BL	BL	BL
17	BL	BL	BL	BL	BL
18	BL	BL	BL	BL	BL
19	BL	BL	8639 <sup>a</sup>	BL	BL
20	BL	BL	BL	BL	BL
21	BL	BL	BL	BL	BL
22	BL	BL	BL	BL	BL
23	BL	BL	BL	BL	BL
24	BL	BL	BL	BL	BL
25	119541 <sup>a</sup>	BL	NA	BL	BL
26	BL	299 <sup>a</sup>	NA	BL	1249 <sup>a</sup>
27	BL	BL	NA	BL	BL
28	BL	BL	BL	BL	BL
29	BL	BL	BL	BL	BL
30	BL	BL	6761 <sup>a</sup>	BL	BL
31	BL	BL	BL	BL	BL

32	BL	BL	BL	BL	BL
33	BL	BL	BL	BL	BL

- Note:
1. mg/kg = milligram per kilogram.
  2. "BL" = Below Screening Limit.
  3. "NA" = Not Applicable.
  4. "a" denotes further confirmation test was conducted, results are listed in 3.2 and 3.3.



### 3.2 Heavy Metal Content

#### Test Method:

Lead (Pb)/Cadmium(Cd): IEC 62321-5:2013, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Mercury(Hg): IEC 62321-4:2013+AMD1:2017, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Hexavalent Chromium( $\text{Cr}^{6+}$ ): metal: IEC 62321-7-1:2015, nonmetal: IEC 62321-7-2:2017, analysis was performed by Ultraviolet-visible spectroscopy (UV-Vis).

Test Item	Hexavalent Chromium ( $\text{Cr}^{6+}$ )	Hexavalent Chromium ( $\text{Cr}^{6+}$ )	Cadmium (Cd)	Mercury (Hg)	Lead (Pb)
Limit	1000 mg/kg	Negative	100 mg/kg	1000 mg/kg	1000 mg/kg
Material No.	Result				
6	NA	Negative	--	--	--
7	--	--	N.D.	--	N.D.
8 <sup>#4</sup>	NA	Negative	--	--	27193.7
9	--	--	N.D.	--	--
10	--	--	N.D.	--	N.D.
11	NA	Negative	--	--	N.D.
25	NA	Negative	--	--	--
26	--	--	N.D.	--	N.D.

- Note:
1. RL (Report Limit) = Pb, Cd, Hg: 10mg/kg;  $\text{Cr}^{6+}$ : nonmetal -10mg/kg, metal- Negative(<0.1 $\mu\text{g}/\text{cm}^2$ ).
  2. mg/kg = milligram per kilogram,  $\mu\text{g}/\text{cm}^2$ = micrograms per square centimeter.
  3. N.D. = Not Detected (< RL).
  4. NA = Not Applicable.
  5. Negative = Surface of metal sample absence of  $\text{Cr}^{6+}$ , Positive = Surface of metal sample presence of  $\text{Cr}^{6+}$ .
  6. "--" denotes tested by XRF, result is listed in 3.1.



- Remark:**
- (#1)=Exceeded upper screening limit, but if sample is Steel for machining purposes or galvanized steel, Aluminium or Copper alloy, the limit for Lead is 3,500mg/kg, 4,000 mg/kg and 4,000 mg/kg respectively and further chemical test was suggested.
  - (#2)=Exceeded upper screening limit, as claimed by the declaration submitted from the applicant/supplier of applicant, but if Lead comes from the constituent of ceramic of the electronic component (other than dielectric ceramic in capacitors) only. According to EU RoHS Directive (2011/65/EU), Lead in ceramic of this component can be exempted.
  - (#3)=Exceeded upper screening limit, as claimed by the declaration submitted from the applicant/supplier of applicant, but if Lead comes from the constituent of glass used in cathode ray tube/ in electrical and electronic component only. According to EU RoHS Directive (2011/65/EU), Lead in glass of this component can be exempted.
  - (#4)=As claimed by the declaration submitted from the applicant / supplier of applicant, the Lead content of the component comes from Copper alloy only. According to EU RoHS Directive (2011/65/EU), Lead in Copper alloy containing up to 4% (40,000 mg/kg) Lead by weight can be exempted.
  - (#5)=As claimed by the declaration submitted from the applicant / supplier of applicant, the Lead content of the component comes from steel for machining purposes / galvanized steel only. According to EU RoHS Directive (2011/65/EU), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% (3,500 mg/kg) Lead by weight can be exempted.
  - (#6)=As claimed by the declaration submitted from the applicant / supplier of applicant, the Lead content of the component comes from the constituent of glass used in fluorescent tubes only. According to EU RoHS Directive (2011/65/EU), Lead in glass of fluorescent tubes can not be exceeding 0.2% (2,000 mg/kg) by weight.
  - (#7)=As claimed by the declaration submitted from the applicant / supplier of applicant, the Lead content of the component comes from the constituent of high melting temperature type solders (i.e. Lead-based alloys containing 85% by weight or more Lead) only. According to EU RoHS Directive (2011/65/EU), Lead in high melting temperature type solders of the component can be exempted.

### 3.3 Polybrominated biphenyls (PBBs) & Polybrominated diphenyl ethers (PBDEs) Content

Test Method: IEC 62321-6:2015, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item		Limit (mg/kg)	RL (mg/kg)	Result(mg/kg)	
				19	30
PBBs	Monobromobiphenyl	--	5	N.D.	N.D.
	Dibromobiphenyl	--	5	N.D.	N.D.
	Tribromobiphenyl	--	5	N.D.	N.D.
	Tetrabromobiphenyl	--	5	N.D.	N.D.
	Pentabromobiphenyl	--	5	N.D.	N.D.
	Hexabromobiphenyl	--	5	N.D.	N.D.
	Heptabromobiphenyl	--	5	N.D.	N.D.
	Octabromobiphenyl	--	5	N.D.	N.D.
	Nonabromobiphenyl	--	5	N.D.	N.D.
	Decabromobiphenyl	--	5	N.D.	N.D.
	<b>Sum of detected PBBs</b>	1000	--	N.D.	N.D.
PBDEs	Monobromodiphenylether	--	5	N.D.	N.D.
	Dibromodiphenylether	--	5	N.D.	N.D.
	Tribromodiphenylether	--	5	N.D.	N.D.
	Tetrabromodiphenylether	--	5	N.D.	N.D.
	Pentabromodiphenylether	--	5	N.D.	N.D.
	Hexabromodiphenylether	--	5	N.D.	N.D.
	Heptabromodiphenylether	--	5	N.D.	N.D.
	Octabromodiphenylether	--	5	N.D.	N.D.
	Nonabromodiphenylether	--	5	N.D.	N.D.
	Decabromodiphenylether	--	5	N.D.	N.D.
	<b>Sum of detected PBDEs</b>	1000	--	N.D.	N.D.

- Note:
1. mg/kg = milligram per kilogram.
  2. RL = Report Limit
  3. N.D. = Not Detected (< RL).
  4. "--" = Not Applicable.

### 3.4 Phthalates Content

Test Method: IEC 62321-8:2017, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item	Di-(2-ethylhexyl) phthalate (DEHP)	Dibutyl phthalate (DBP)	Benzylbutyl phthalate (BBP)	Diisobutyl phthalate(DIBP)
CAS No.	117-81-7	84-74-2	85-68-7	84-69-5
Limit	1000 mg/kg	1000 mg/kg	1000 mg/kg	1000 mg/kg
Material No.	Result (mg/kg)			
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.
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.
22	N.D.	N.D.	N.D.	N.D.
23	N.D.	N.D.	N.D.	N.D.
24	N.D.	N.D.	N.D.	N.D.
28	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.
32	N.D.	N.D.	N.D.	N.D.
33	N.D.	N.D.	N.D.	N.D.

- Note:
1. mg/kg = milligram per kilogram
  2. Report Limit = 50mg/kg
  3. N.D. = Not Detected (< RL)

**3.5 The European Commission officially announced Directive (EU)2023/1542 on batteries, batteries, waste batteries and waste batteries on July 28, 2023. Simultaneously replacing and abolishing the original battery directive 2006/66/EC - Content of Lead (Pb), Cadmium (Cd) and Mercury (Hg)**

Test Method:

Lead (Pb)/Cadmium(Cd): IEC 62321-5:2013,

Mercury(Hg): IEC 62321-4:2017,

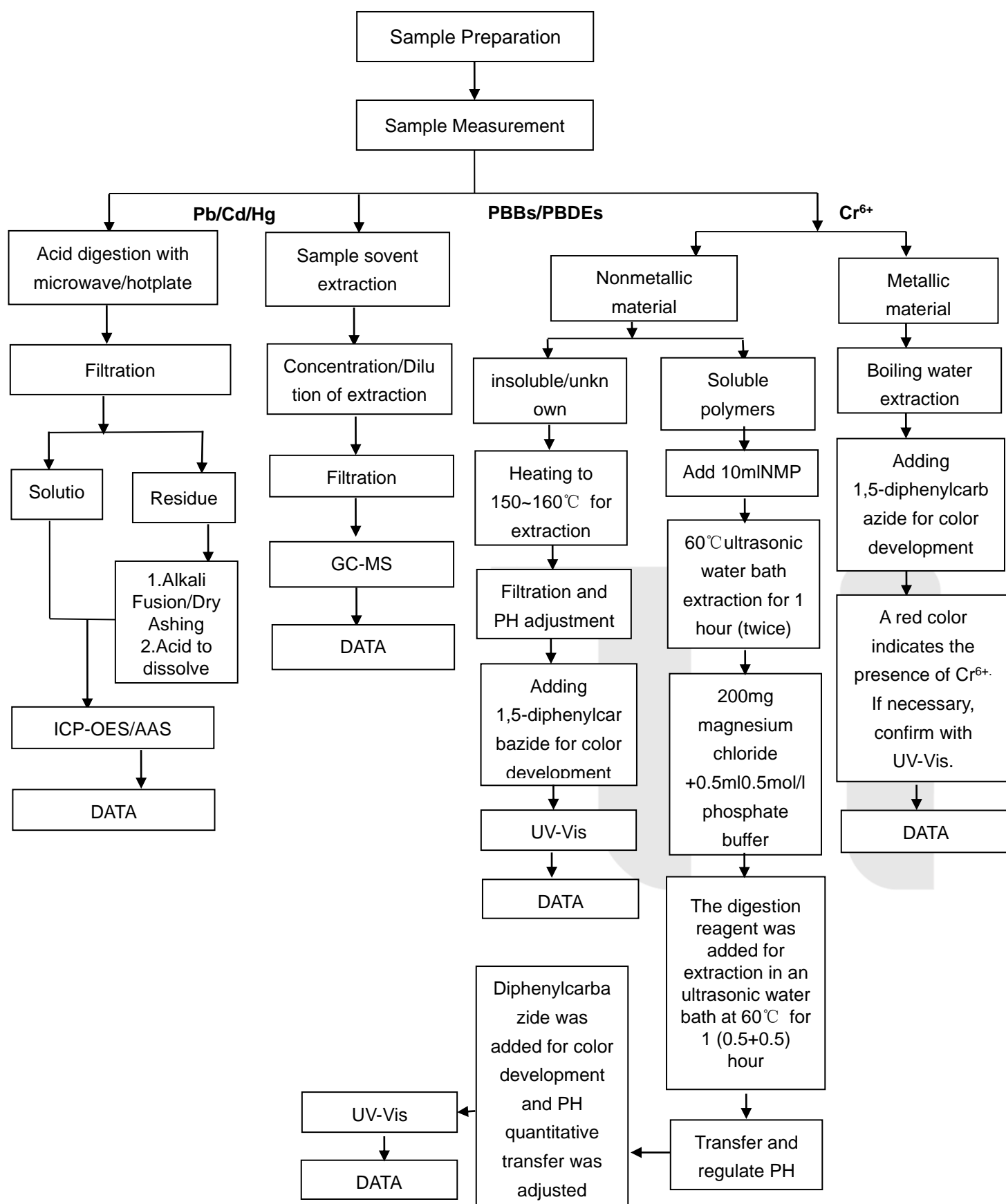
Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Lead (Pb)	Cadmium(Cd)	Mercury (Hg)
CAS No.	7439-92-1	7440-43-9	7439-97-6
Limit (mg/kg)	100	20	5
RL (mg/kg)	10	5	1
Material No.	Result (mg/kg)		
34	N.D.	N.D.	N.D.

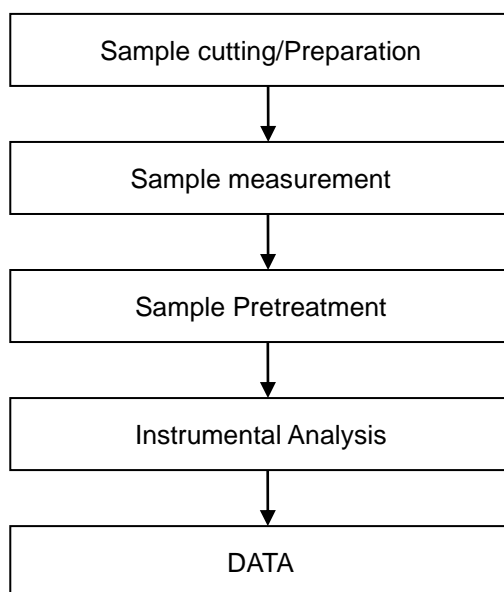
- Note:
1. mg/kg = milligram per kilogram
  2. N.D. = Not Detected (< RL)
  3. RL = Report Limit



## RoHS Testing Flow Chart



### Phthalates Testing Flow Chart



**Photo of Sample**



Statement

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

