

TEST REPORT

Applicant: Dongguan Zhifei Electronic Technology Co., Ltd.
Address: Room 705, No. 62, Chashan Zhanqian Road, Chashan Town, Dongguan City
Manufacturer: Dongguan Zhifei Electronic Technology Co., Ltd.
Address: Room 705, No. 62, Chashan Zhanqian Road, Chashan Town, Dongguan City

Report on the submitted sample(s) said to be:

Sample Name: Hair dryer
Serial Model: ZF-03, ZF-03-White, ZF-03-Black, ZF-03-Silver, ZF-03-Pink
Trade Mark: zhiyangfei
Date of Test: Dec. 13, 2023 ~ Dec. 19, 2023
Date of Report: Dec. 19, 2023

Test Requested: Base upon the performed tests by submitted sample, the test results comply with the limits as set by Directive (EU) 2015/863 - Amendment of EU RoHS Directive (EU) 2017/2102 (RoHS 2.0) Annex II.

Test Method: Please refer to the following page(s).

Test Result(s): Please refer to the following page(s).

Checked By:

Date: Dec. 19, 2023



Approved By:

Date: Dec. 19, 2023



Test Method:

(1) With reference to EN 62321

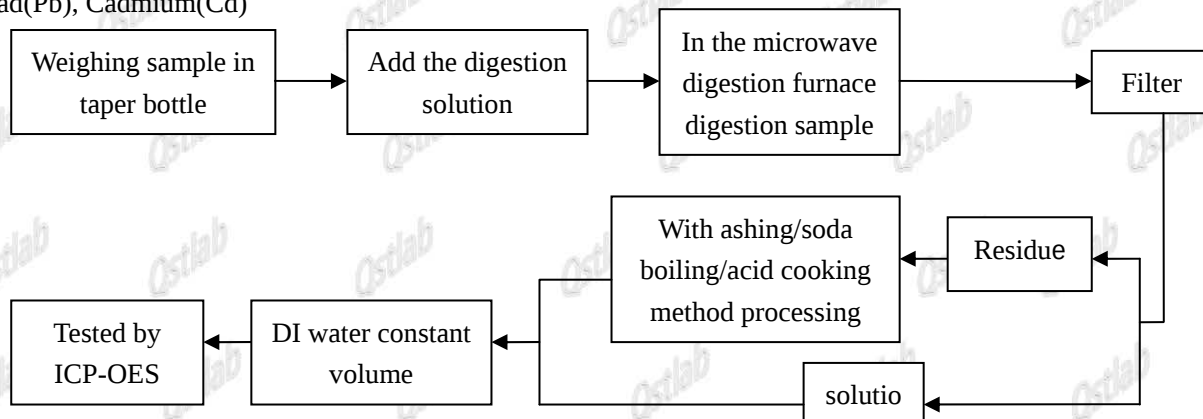
Testing item	Pretreatment method	Measuring instrument	MDL
Lead(Pb)	IEC 62321-5: 2013	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC62321-5:2013	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg
PBBs/ PBDEs	IEC62321-6:2015	GC-MS	5 mg/kg
Chromium(Cr VI)	IEC 62321-7-2:2017	UV-Vis	2 mg/kg
	IEC62321- 7-1:2015	UV-Vis	2 mg/kg

(2) With reference to EN 62321-8:2017

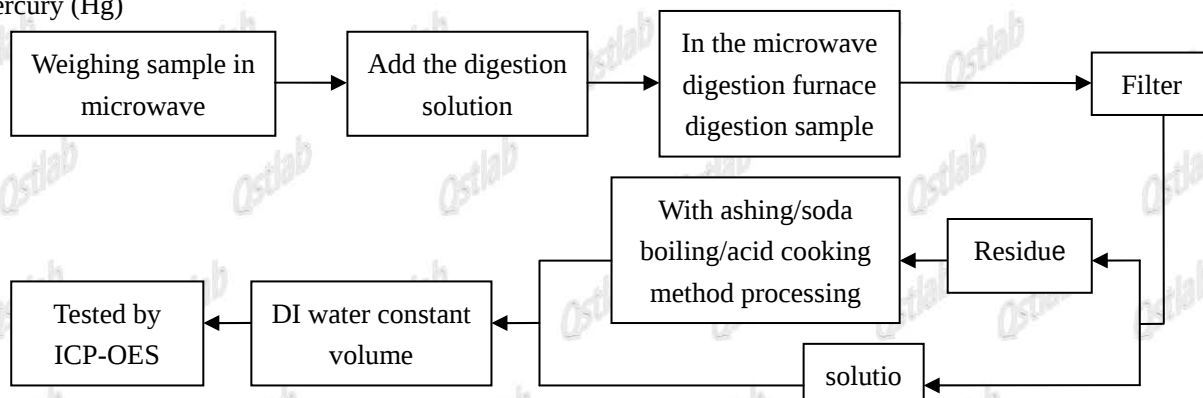
Testing item	Pretreatment method	Measuring instrument	MDL
DEHP、DBP、BBP DIBP	IEC 62321-8:2017	GC-MS	50 mg/kg
DIBP	CPSC-CH-C1001-09.4	GC-MS	0.003 mg/kg

Test Flow:

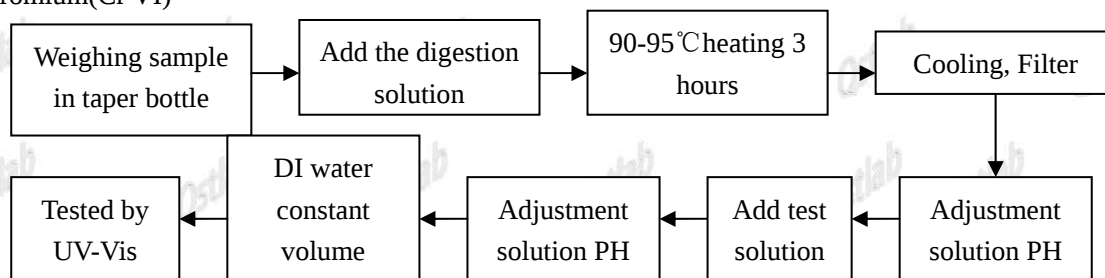
1. Lead(Pb), Cadmium(Cd)



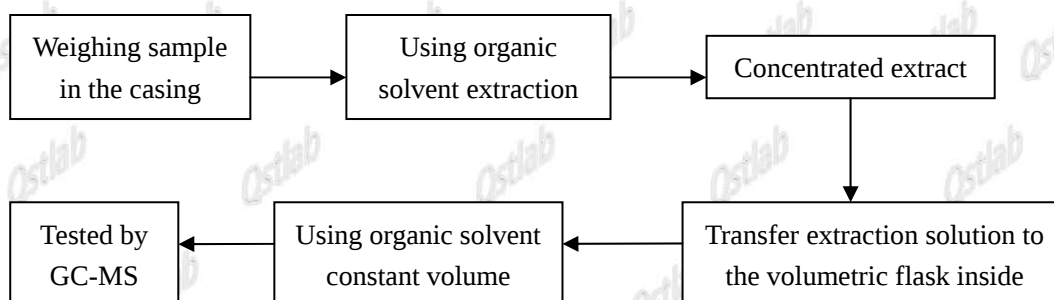
2. Mercury (Hg)



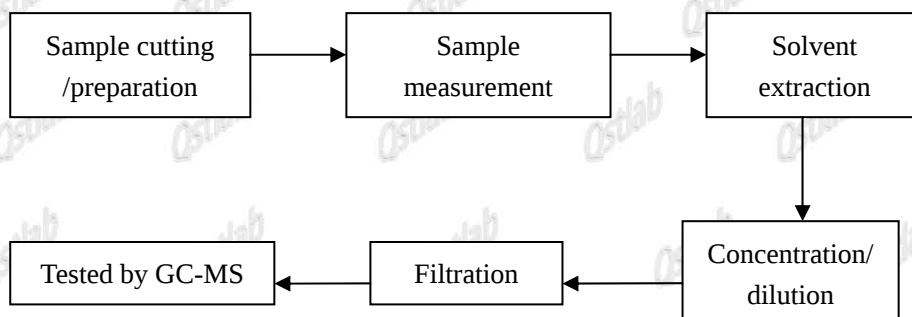
3. Chromium(Cr VI)



4. PBBs/ PBDEs



5. HBCDD/ DEHP/ BBP/ DBP



Test Results:

Testing Item	Unit	ROHS Limit	Result				
			1	2	3	4	5
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	N.D.	--	N.D.	N.D.
Monobromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Dibromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Tribromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Pentabromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Hexabromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Heptabromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Octabromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Nonabromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Decabromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	--	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Hexabromocyclododecane (HBCDD)	mg/kg	1000	N.D.	N.D.	--	N.D.	N.D.
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	1000	N.D.	N.D.	--	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	1000	N.D.	N.D.	--	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	1000	N.D.	N.D.	--	N.D.	N.D.

Sample Description:

- 1 White casing
- 2 White power cord
- 3 Plug
- 4 White plastic
- 5 Tie

Test Results:

Testing Item	Unit	ROHS Limit	Result				
			6	7	8	9	10
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	N.D.	--	N.D.	N.D.
Monobromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Dibromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Tribromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Pentabromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Hexabromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Heptabromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Octabromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Nonabromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Decabromobiphenyl	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	--	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	/	N.D.	N.D.	--	N.D.	N.D.
Hexabromocyclododecane (HBCDD)	mg/kg	1000	N.D.	N.D.	--	N.D.	N.D.
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	1000	N.D.	N.D.	--	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	1000	N.D.	N.D.	--	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	1000	N.D.	N.D.	--	N.D.	N.D.

Sample Description

6 Red Line

7 Blue Line

8 Screw

9 Blue plastic

10 White inside line

Test Results:

Testing Item	Unit	ROHS Limit	Result				
			11	12	13	14	15
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromocyclododecane (HBCDD)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.

Sample Description:

11 Motor

12 White plastic parts

13 PCB board

14 Black line

15 Diode

Test Results:

Testing Item	Unit	ROHS Limit	Result				
			16	17	18	19	20
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	N.D.	N.D.	--	--
Monobromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	--	--
Dibromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	--	--
Tribromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	--	--
Tetrabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	--	--
Pentabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	--	--
Hexabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	--	--
Heptabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	--	--
Octabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	--	--
Nonabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	--	--
Decabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	--	--
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	N.D.	--	--
Monobromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	--	--
Dibromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	--	--
Tribromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	--	--
Tetrabromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	--	--
Pentabromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	--	--
Hexabromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	--	--
Heptabromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	--	--
Octabromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	--	--
Nonabromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	--	--
Decabromodiphenyl ether	mg/kg	/	N.D.	N.D.	N.D.	--	--
Hexabromocyclododecane (HBCDD)	mg/kg	1000	N.D.	N.D.	N.D.	--	--
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	1000	N.D.	N.D.	N.D.	--	--
Benzylbutyl Phthalate (BBP)	mg/kg	1000	N.D.	N.D.	N.D.	--	--
Dibutyl Phthalate (DBP)	mg/kg	1000	N.D.	N.D.	N.D.	--	--

Sample Description

16 Resistance

17 Capacitors

18 IC

19 Heating element

20 Fuse

Test Results:

Testing Item	Unit	ROHS Limit	Result				
			21	--	--	--	--
Lead(Pb)	mg/kg	1000	N.D.	--	--	--	--
Cadmium(Cd)	mg/kg	100	N.D.	--	--	--	--
Mercury(Hg)	mg/kg	1000	N.D.	--	--	--	--
Chromium(Cr VI)	mg/kg	1000	N.D.	--	--	--	--
Sum of PBBs	mg/kg	1000	N.D.	--	--	--	--
Monobromobiphenyl	mg/kg	/	N.D.	--	--	--	--
Dibromobiphenyl	mg/kg	/	N.D.	--	--	--	--
Tribromobiphenyl	mg/kg	/	N.D.	--	--	--	--
Tetrabromobiphenyl	mg/kg	/	N.D.	--	--	--	--
Pentabromobiphenyl	mg/kg	/	N.D.	--	--	--	--
Hexabromobiphenyl	mg/kg	/	N.D.	--	--	--	--
Heptabromobiphenyl	mg/kg	/	N.D.	--	--	--	--
Octabromobiphenyl	mg/kg	/	N.D.	--	--	--	--
Nonabromobiphenyl	mg/kg	/	N.D.	--	--	--	--
Decabromobiphenyl	mg/kg	/	N.D.	--	--	--	--
Sum of PBDEs	mg/kg	1000	N.D.	--	--	--	--
Monobromodiphenyl ether	mg/kg	/	N.D.	--	--	--	--
Dibromodiphenyl ether	mg/kg	/	N.D.	--	--	--	--
Tribromodiphenyl ether	mg/kg	/	N.D.	--	--	--	--
Tetrabromodiphenyl ether	mg/kg	/	N.D.	--	--	--	--
Pentabromodiphenyl ether	mg/kg	/	N.D.	--	--	--	--
Hexabromodiphenyl ether	mg/kg	/	N.D.	--	--	--	--
Heptabromodiphenyl ether	mg/kg	/	N.D.	--	--	--	--
Octabromodiphenyl ether	mg/kg	/	N.D.	--	--	--	--
Nonabromodiphenyl ether	mg/kg	/	N.D.	--	--	--	--
Decabromodiphenyl ether	mg/kg	/	N.D.	--	--	--	--
Hexabromocyclododecane (HBCDD)	mg/kg	1000	N.D.	--	--	--	--
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	1000	N.D.	--	--	--	--
Benzylbutyl Phthalate (BBP)	mg/kg	1000	N.D.	--	--	--	--
Dibutyl Phthalate (DBP)	mg/kg	1000	N.D.	--	--	--	--

Sample Description:

21 White plastic parts

Notes:

1mg/kg=1ppm = 0.0001%

N.D. = Not Detected (<MDL)

MDL = Method Detection Limit

/=Not Regulated

---=Not Applicable

Sample photo:
Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



Photo 7

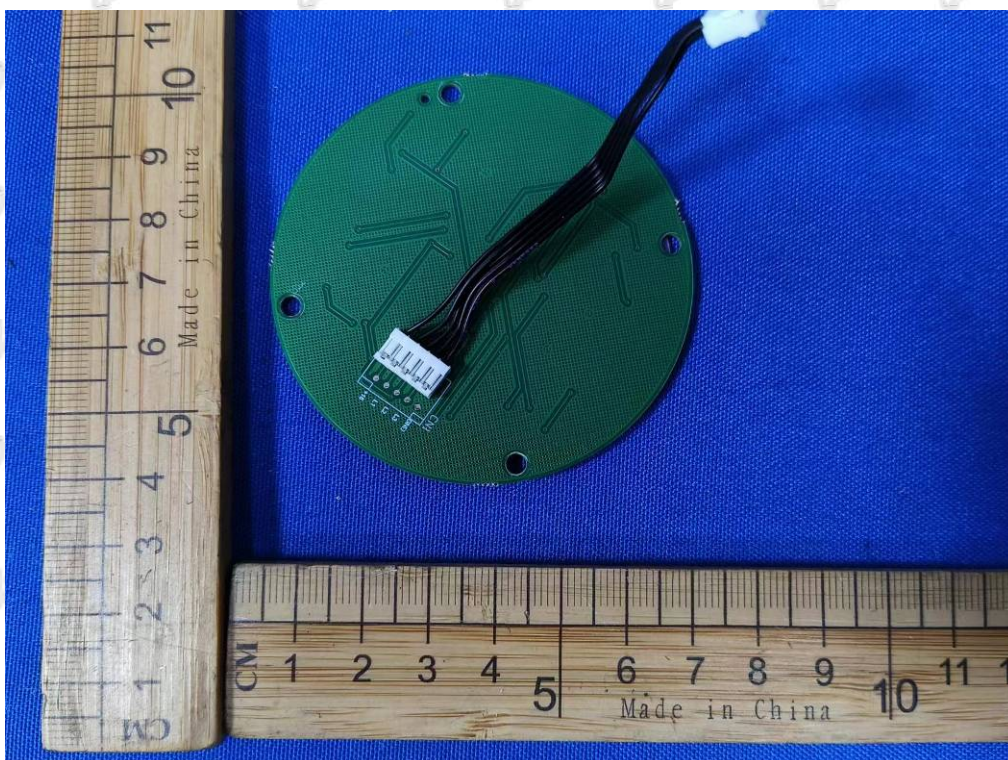


Photo 8

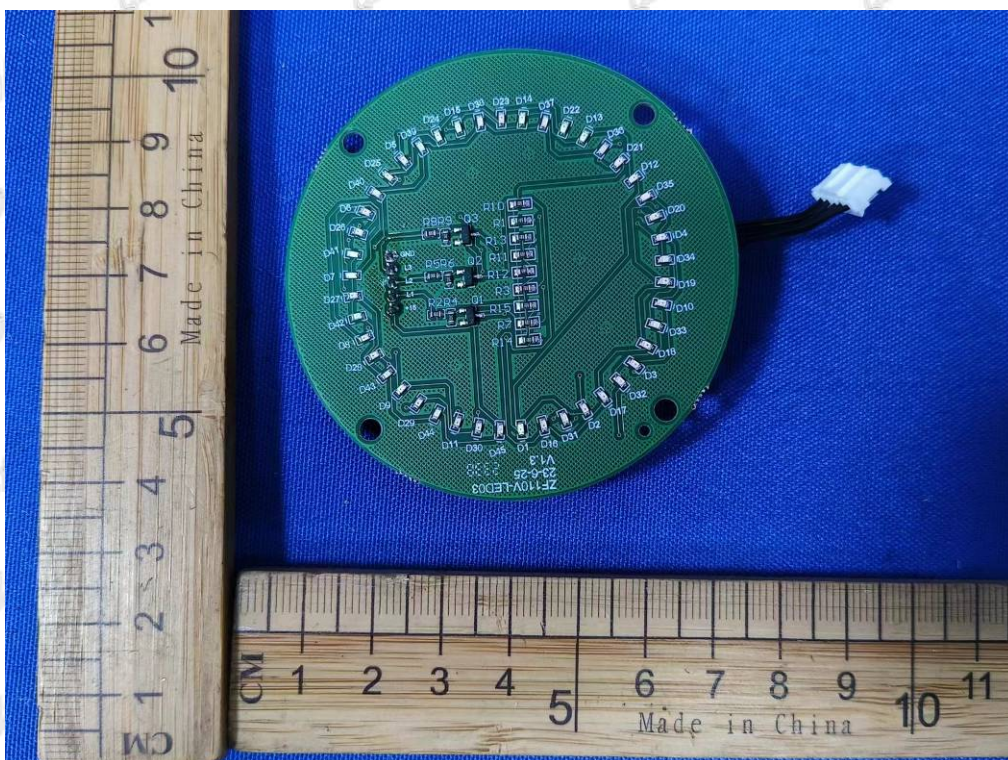


Photo 9



Photo 10



Photo 11

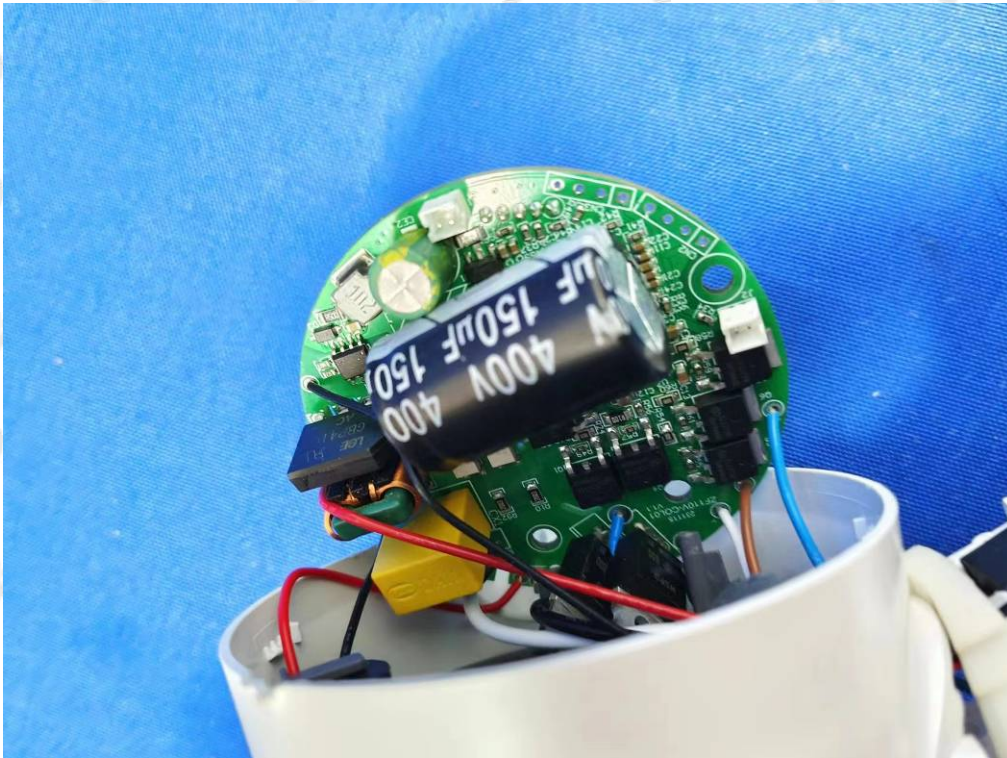
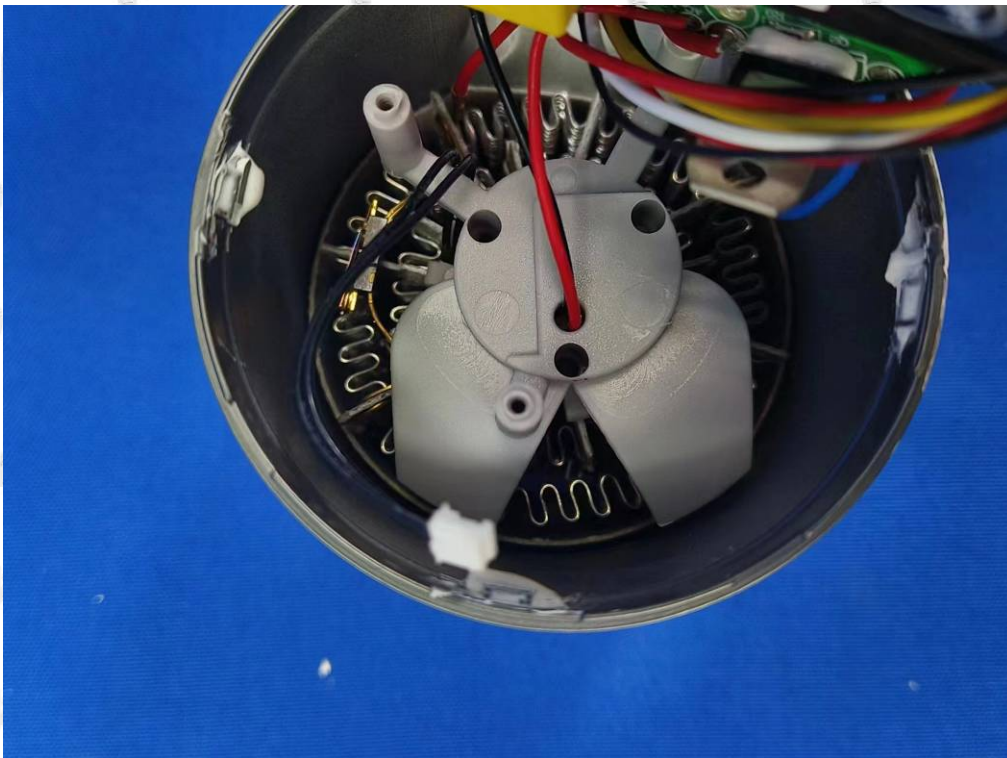


Photo 12

**--End of Report--**