



Dongguan UTT Service Co., Ltd.

Room 107, Building 2, No.3, Mu Lun The second road of entrepreneurship , Changping Town,
Dongguan City, Guangdong

TEST REPORT

Applicant : K-Star Plastic Mold (shenzhen) co,LTD
DONG WANG YANG INDUSTARL ESTATE,
Address : HUANGTIAN SHEQU, HANGCHENGJIEDAO, BAOAN,
SHENZHEN, CHINA
Manufacturer : K-Star Plastic Mold (shenzhen) co,LTD
DONG WANG YANG INDUSTARL ESTATE,
Address : HUANGTIAN SHEQU, HANGCHENGJIEDAO, BAOAN,
SHENZHEN, CHINA
Sample name : Aromatherapy diffuser
Trademark : N/A
Model : KS2401x; KS2402x; KS2403x (The x is for appearance only, and
the color is different)
As specified by client, with reference to RoHS Directive
2011/65/EU to determine the Lead(Pb), Cadmium(Cd),
Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated
Test Requested : biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs),
Dibutyl Phthalate (DBP), Benzyl butyl phthalate(BBP), Bis-(2-
ethyl hexyl)-phthalate(DEHP) and Diisobutyl phthalate(DIBP)
content in the submitted sample.
Test item : Cd、Pb、Hg、Cr(VI)、PBBs、PBDEs、DBP、BBP、DEHP、
DIBP
Report Number : UTT202405012S
Date of Test : May 21, 2024~May 28, 2024
Date of Report : May 28, 2024
Test by : Joan Huang
Review by : Nike Huang
Approve by : Joseph Zhang



1. Tested components

No.	SAMPLE No.	COMPONENTS	MATERIAL OR COLOR	REMARK
1	A-1	Wire	White	SEE THE PHOTO
2	A-2	USB	White	SEE THE PHOTO
3	A-3	Inner	White	SEE THE PHOTO
4	A-4	Enclosure	Brown	SEE THE PHOTO
5	A-5	Bottom enclosure	Brown	SEE THE PHOTO
6	A-6	Connector	White	SEE THE PHOTO
7	A-7	Screw	White	SEE THE PHOTO
8	A-8	Atomizer	Mixed	SEE THE PHOTO
9	A-9	Wire	Black	SEE THE PHOTO
10	A-10	Switch	Black	SEE THE PHOTO
11	A-11	PCB	White	SEE THE PHOTO
12	A-12	Inductance	Black	SEE THE PHOTO
13	A-13	LED	White	SEE THE PHOTO
14	A-14	Wire	White	SEE THE PHOTO
15	A-15	Capacitance	Mixed	SEE THE PHOTO
16	A-16	Chip	Black	SEE THE PHOTO
17	A-17	Resistance	Black	SEE THE PHOTO
18	A-18	Soldering tin	White	SEE THE PHOTO
19	A-19	Inductance	Mixed	SEE THE PHOTO
20	A-20	Capacitance	Mixed	SEE THE PHOTO
21	A-21	Label	Mixed	SEE THE PHOTO
22	A-22	Fan blade	Black	SEE THE PHOTO
23	A-23	Winding	Mixed	SEE THE PHOTO

2. Test result:

Sample No.	Component Description	Test Item	XRF Screening Result(mg/kg)	Verdict
A-1	Wire	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
A-2	USB	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
A-3	Inner	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
A-4	Enclosure	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
A-5	Bottom enclosure	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	

Sample No.	Component Description	Test Item	XRF Screening Result(mg/kg)	Verdict
A-6	Connector	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
A-7	Screw	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
A-8	Atomizer	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
A-9	Wire	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
A-10	Switch	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
A-11	PCB	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	

Sample No.	Component Description	Test Item	XRF Screening Result(mg/kg)	Verdict
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
A-12	Inductance	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
		Cadmium (Cd)	N.D.	
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
A-13	LED	Dibutyl Phthalate(DBP)	N.D.	P
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
		Cadmium (Cd)	N.D.	
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
		Cadmium (Cd)	N.D.	
A-14	Wire	Lead (Pb)	N.D.	P
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
		Cadmium (Cd)	N.D.	
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
A-15	Capacitance	Benzyl butyl phthalate (BBP)	N.D.	P
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
		Cadmium (Cd)	N.D.	
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
		Cadmium (Cd)	N.D.	
A-16	Chip	Lead (Pb)	N.D.	P
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Cadmium (Cd)	N.D.	

Sample No.	Component Description	Test Item	XRF Screening Result(mg/kg)	Verdict
A-17	Resistance	Benzyl butyl phthalate (BBP)	N.D.	P
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
		Cadmium (Cd)	N.D.	
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
A-18	Soldering tin	Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	P
		Diisobutyl Phthalate(DIBP)	N.D.	
		Cadmium (Cd)	N.D.	
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
A-19	Inductance	Diisobutyl Phthalate(DIBP)	N.D.	P
		Cadmium (Cd)	N.D.	
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
A-20	Capacitance	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	
		Cadmium (Cd)	N.D.	
A-21	Label	Lead (Pb)	N.D.	P
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D.	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D.	

Sample No.	Component Description	Test Item	XRF Screening Result(mg/kg)	Verdict
A-22	Fan blade	Diisobutyl Phthalate(DIBP)	N.D	P
		Cadmium (Cd)	N.D.	
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D	
A-23	Winding	Cadmium (Cd)	N.D.	P
		Lead (Pb)	N.D.	
		Mercury (Hg)	N.D.	
		Hexavalent Chromium (CrVI)	N.D.	
		Bromine (Br)	N.D	
		Dibutyl Phthalate(DBP)	N.D.	
		Benzyl butyl phthalate (BBP)	N.D.	
		Bis-(2-ethylhexyl)-Phthalate (DEHP)	N.D.	
		Diisobutyl Phthalate(DIBP)	N.D	
		Diisobutyl Phthalate(DIBP)	N.D	

Remark:

- (1) P=Pass; F=Fail; IC=Inconclusive; N.A.=Not Applicable
- (2) N.D.= not detected, less than MDL
- (3) mg/kg = milligram per kilogram
- (4) MDL = method detection limit
- (5) IC# represents a region, the value fell on this area need further confirmation.
- (6) *1 Exceeds XRF screening limits, need further chemical confirmation.
- (7) #1 The test result is detected in the boiling-water-extraction solution and should not be interpreted as the Cr(VI) concentration in the surface of the sample.
- (8) #2 This value is based on the concentration of extraction of 50 cm² area of the sample.
- (9) XRF screening result for reference only.
- (10) The product photo was in the report provided by the applicant

3. Test Method

Chemical testing methods & Equipments

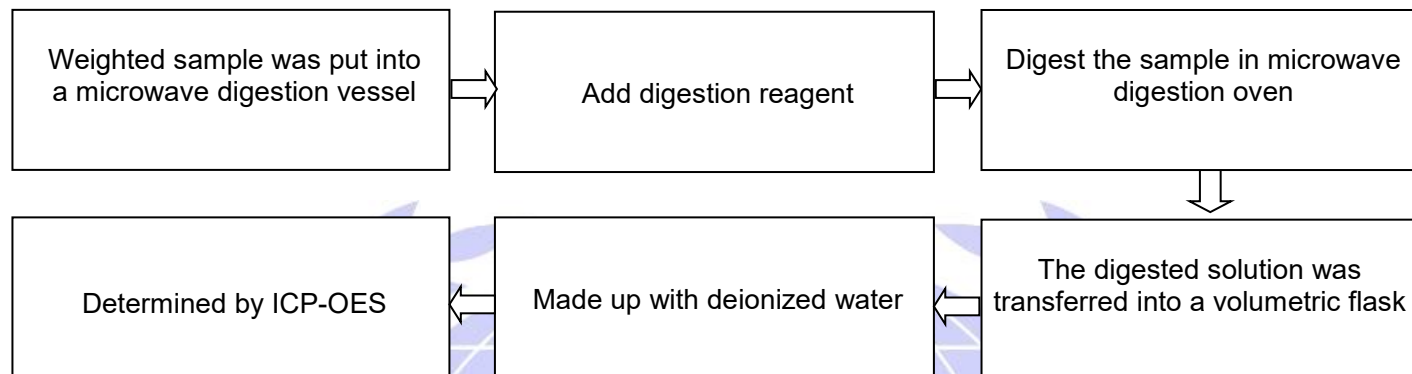
Testing Item	Testing Method	Equipment	Cal Date	Due Date
Lead (Pb)	IEC62321-5-2013 (Ed1.0)	ICP-OES	2023/9/7	2024/9/6
Cadmium (Cd)	IEC62321-5-2013 (Ed1.0)	ICP-OES	2023/9/7	2024/9/6
Mercury (Hg)	IEC62321-4-2013 (Ed1.0)	ICP-OES	2023/9/7	2024/9/6
Hexavalent chromium (Cr(VI)) for plastic	IEC62321:2008 (Ed1.0) annex C	UV-VIS	2023/9/7	2024/9/6
Hexavalent chromium (Cr(VI)) for coating on metals	IEC62321-7-1-2015	UV-VIS	2023/9/7	2024/9/6
PBBs	IEC62321-6-2015 (Ed1.0)	GC-MS	2023/9/7	2024/9/6
PBDEs	IEC62321-6-2015 (Ed1.0)	GC-MS	2023/9/7	2024/9/6
DBP	IEC 62321-8:2017	GC-MS	2023/9/7	2024/9/6
BBP	IEC 62321-8:2017	GC-MS	2023/9/7	2024/9/6
DEHP	IEC 62321-8:2017	GC-MS	2023/9/7	2024/9/6
DIBP	IEC 62321-8:2017	GC-MS	2023/9/7	2024/9/6

4. RoHS Requirement(mg/kg) :

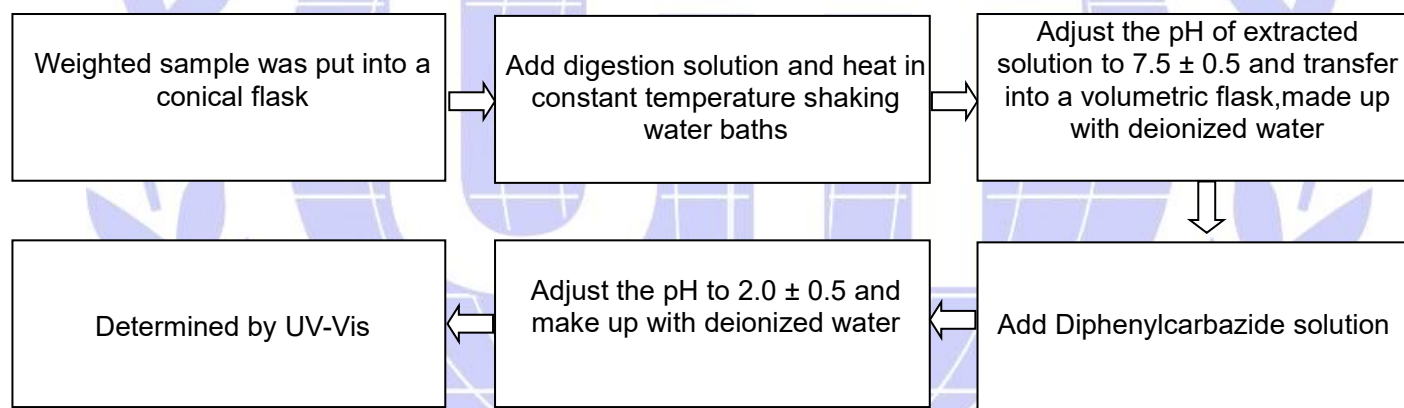
Restricted substances	Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	BBP	DBP	DEHP	DIBP
RoHS limit	100	1000	1000	1000	1000	1000	1000	1000	1000	1000

5. Measurement Flowchart

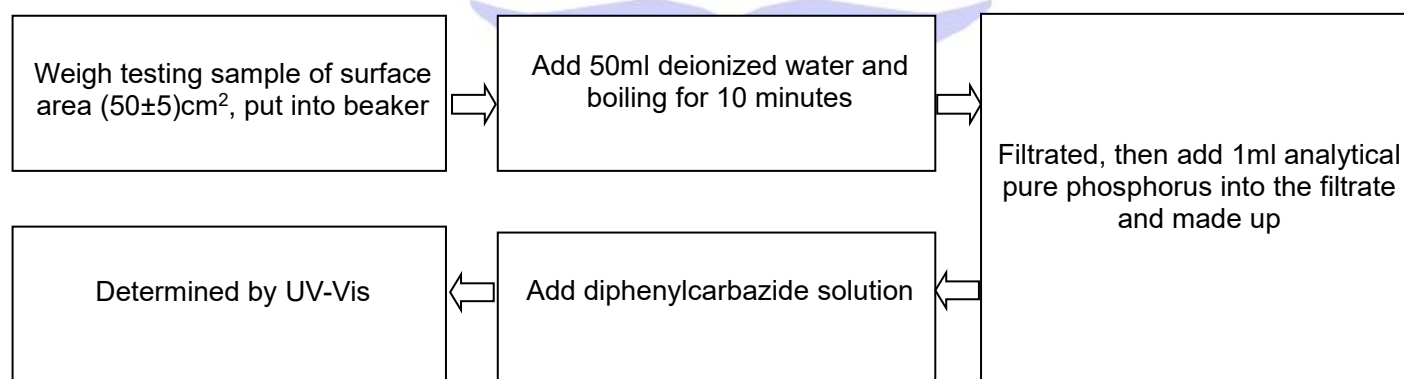
a. Test for Cd / Pb /Hg contents)



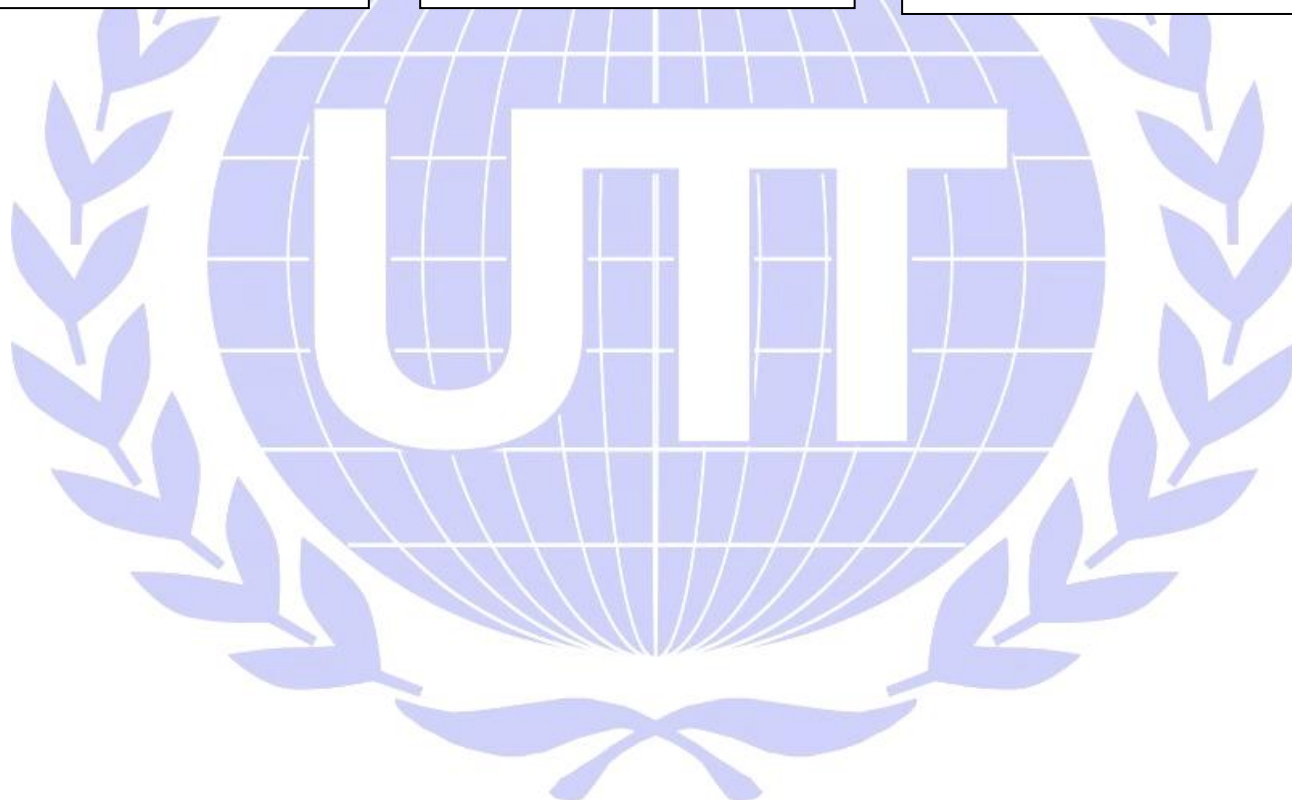
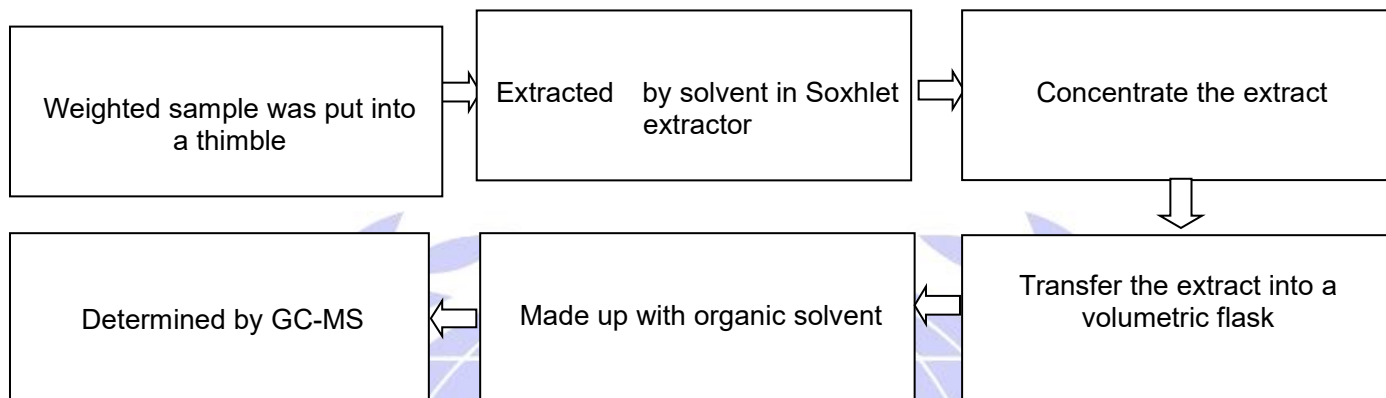
b. Test for Cr(VI) content (for non-metal)



c. Test for Cr(VI) content (for metal)

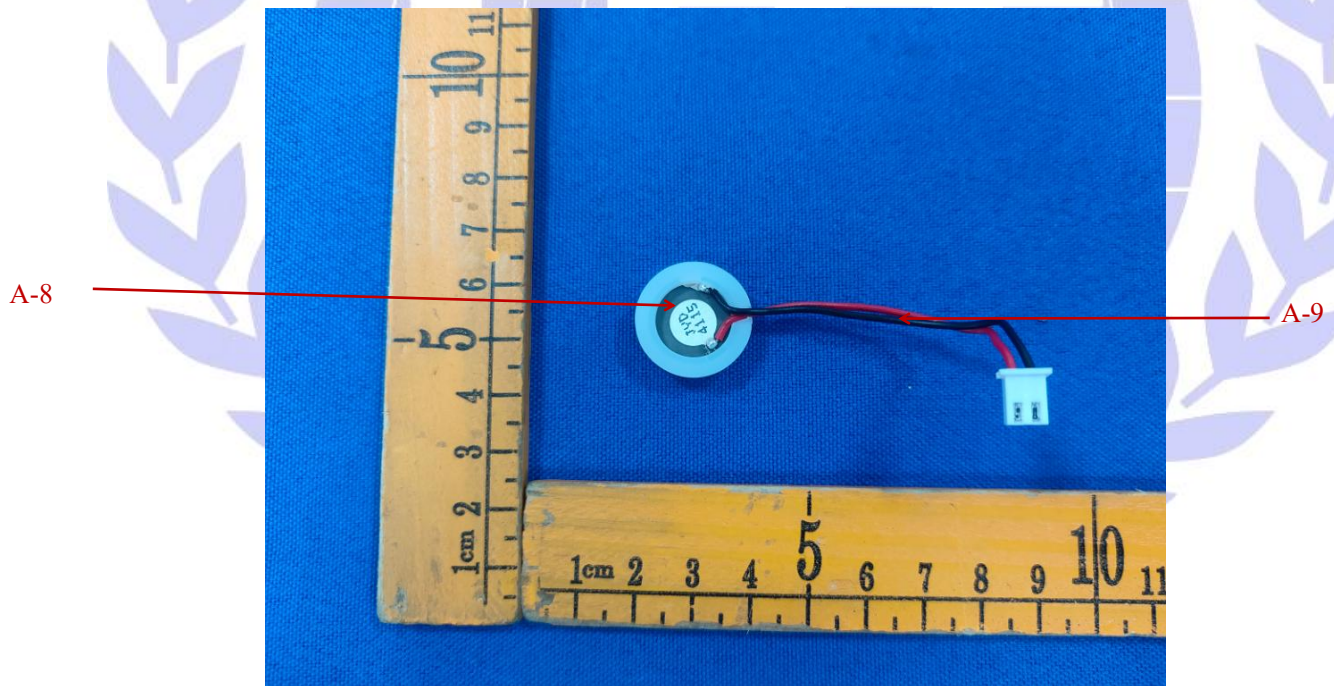
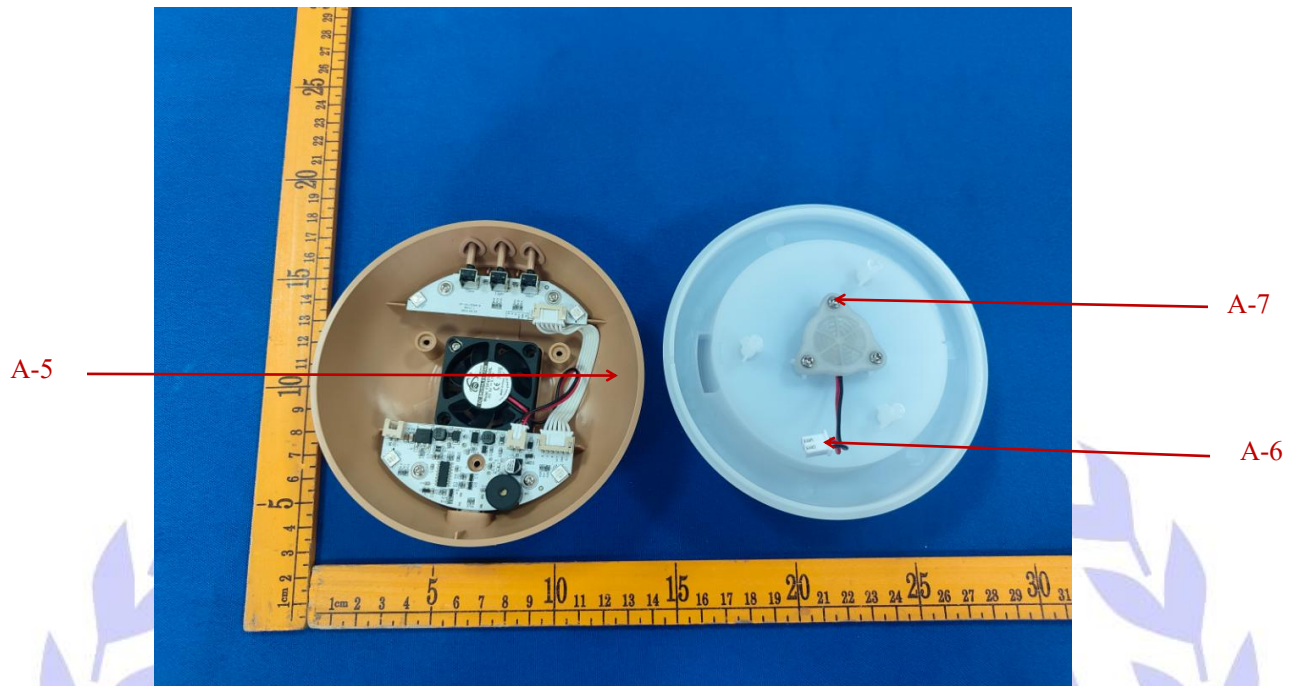


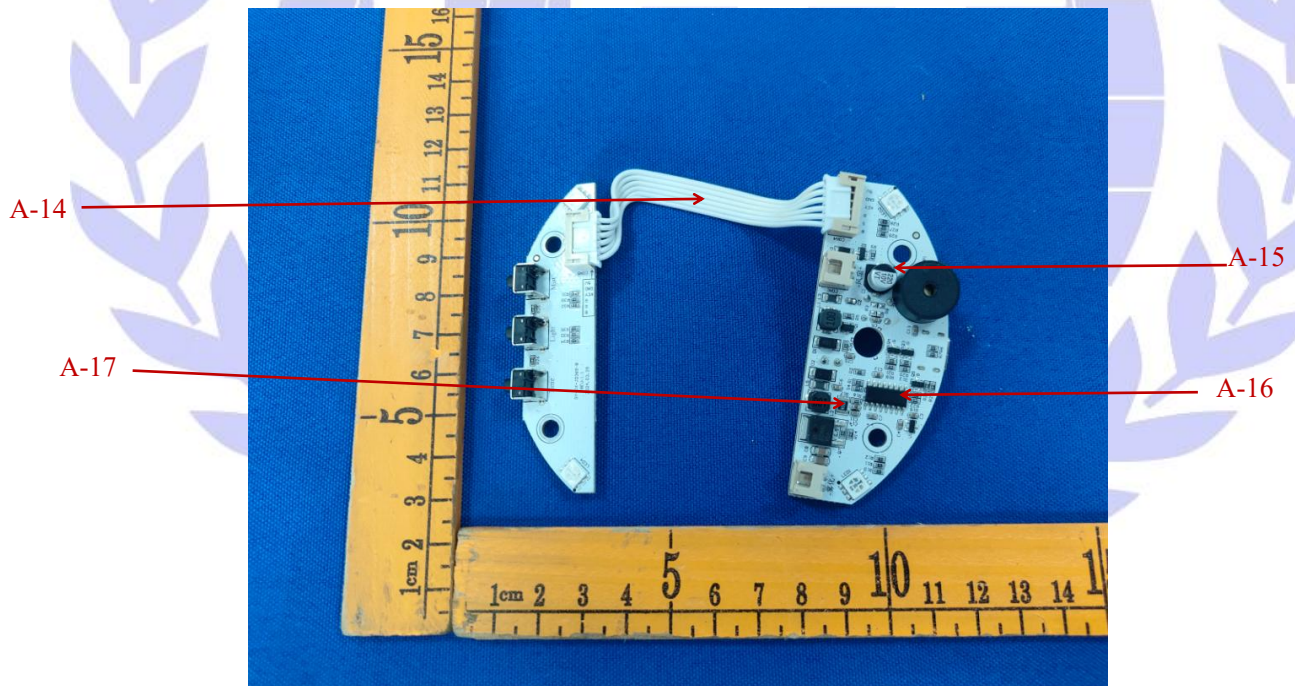
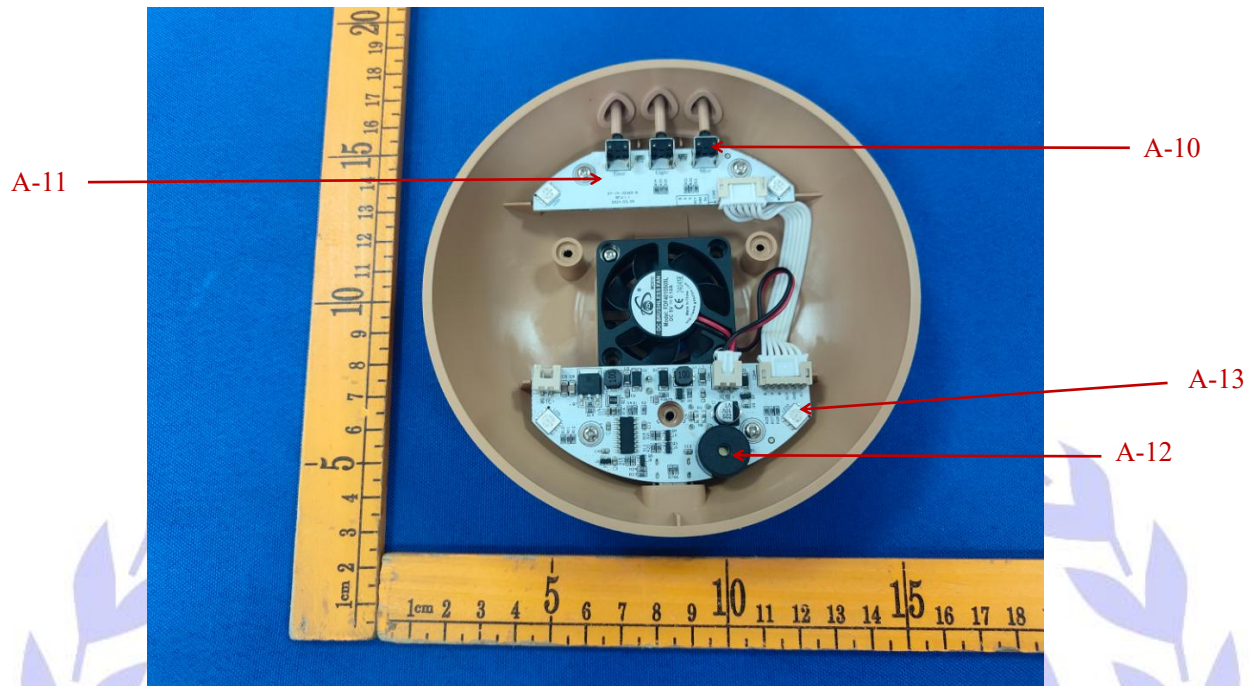
d. Test for PBBs,PBDEs,DBP,BBP,DEHP,DIBP

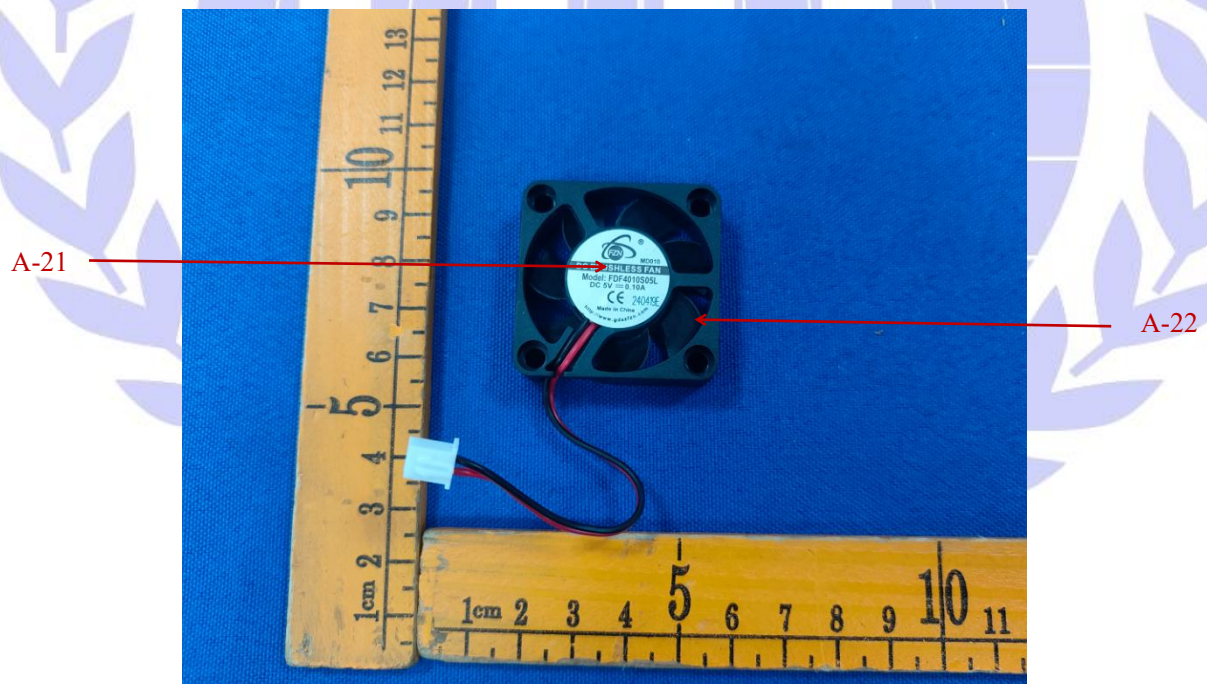
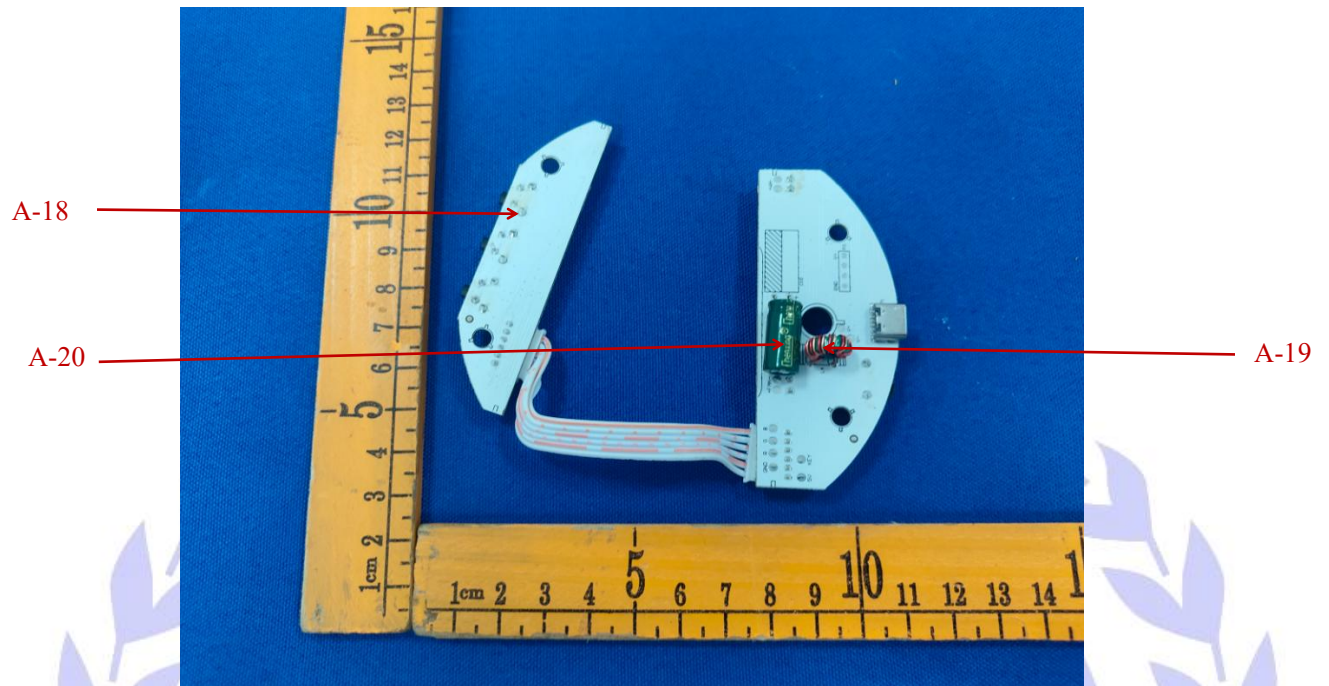


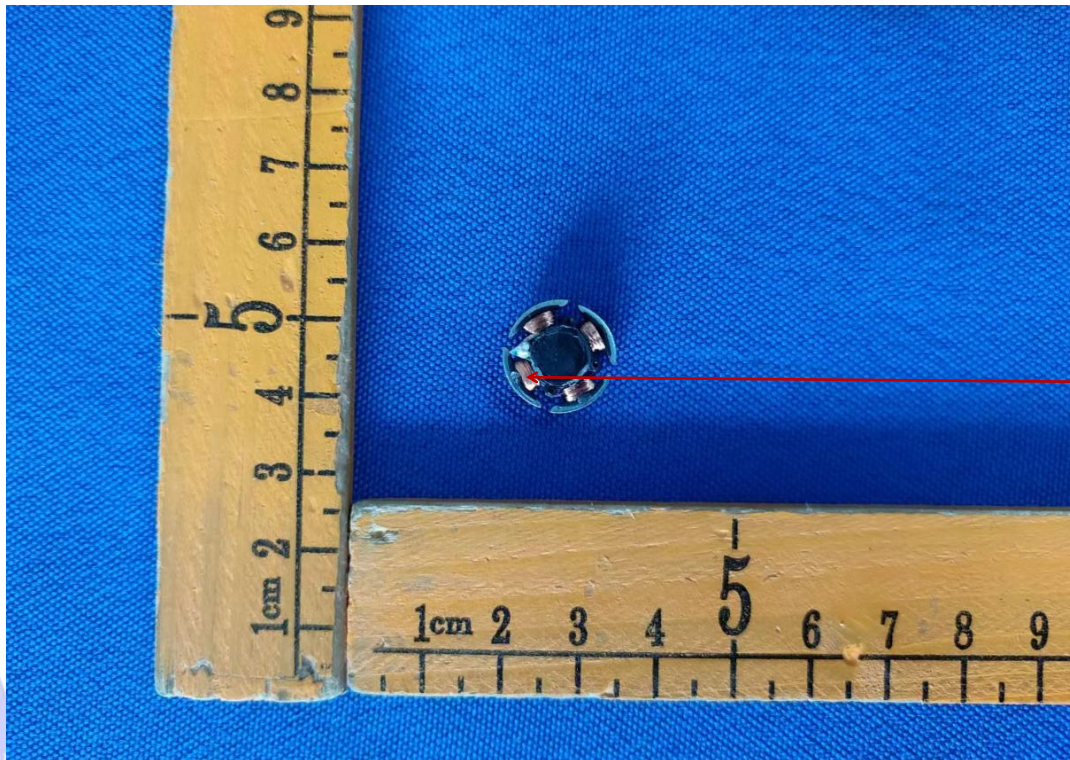
6. Photo(s) of the sample(s)











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