



TEST REPORT

Report No.: A2408193-C02-R02

Date: September 19, 2024

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Applicant: Shenzhen OZOSL Technology Co., LTD

Address: Jinlong Avenue 2, Longgang District, Shenzhen

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

Sample Name	Oral Care Cup(Water-Electrolysis O3 Disinfectant Cup)
Model No.	S10
Trademark	
Manufacturer	Shenzhen OZOSL Technology Co., LTD
Sample Received Date	September 05, 2024
Testing Period	September 06 - 13, 2024
Test Method & Test Result	Please refer to following pages.

Test Requested

As specified by client, according to RoHS Directive 2011/65/EU with amendment (EU) 2015/863, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Phthalates(DBP, BBP, DEHP, DIBP) in the tested materials of the submitted sample(s).

Result(s)

Pass

Tested by:

Tom Lin

Approved by:



Reviewed by:

Tony Gmy

Date of issue: September 19, 2024



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Test Method

(1) XRF screening limits for regulated elements according to IEC 62321-3-1:2013 (Unit: mg/kg)

Element	Polymers	Metals	Composite material
Pb	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X$ $< (1500+3\sigma) \leq OL$
Cd	$BL \leq (70-3\sigma) < X$ $< (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X$ $< (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X$ $< (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	N/A	$BL \leq (250-3\sigma) < X$

(2) Chemical screening limits for PBBs, PBDEs

Test Item(s)	Screening limits(Unit: mg/kg)
Polybrominated Biphenyls (PBBs)	$BL^* \leq 200 < IN$
Polybrominated Diphenyl Ethers (PBDEs)	$BL^* \leq 200 < IN$

(3) Chemical screening limits for Phthalates

Test Item(s)	Screening limits(Unit: mg/kg)
Dibutyl phthalate(DBP)	$BL \leq 600 < IN$
Benzylbutyl phthalate(BBP)	$BL \leq 600 < IN$
Di-2-ethylhexyl phthalate(DEHP)	$BL \leq 600 < IN$
Diisobutyl phthalate(DIBP)	$BL \leq 600 < IN$

(4) Chemical Test

Test Item	Test Method	Test Instrument	MDL (mg/kg)	EU RoHS Limit (mg/kg)
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2	1000
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2	100
Mercury (Hg)	IEC 62321-4:2013 +AMD1:2017	ICP-OES	2	1000
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 (non-metal)	UV-Vis	8	1000
	IEC 62321-7-1:2015 (metal)	UV-Vis	0.1($\mu\text{g}/\text{cm}^2$)	1000
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	5	1000
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	5	1000
Phthalates(DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	50	1000



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Tested Material Description

No.	Description	No.	Description
1.	Transparent glass	26.	Silvery metal sleeve
2.	Blue silicone	27.	Silvery metal
3.	Gray plastic	28.	Black plastic sleeve
4.	White silicone gasket	29.	Silvery metal
5.	Black plastic Pedestal	30.	Black metal
6.	Gray silicone	31.	Silvery metal nut
7.	Gray plastic	32.	White plastic lid
8.	White plastic	33.	Gray silicone
9.	Black rubber shrinkable sleeve	34.	White paper
10.	Black wire sheath	35.	White silicone
11.	Red wire sheath	36.	White silicone
12.	Silvery metal	37.	Silvery metal spring
13.	Silvery metal	38.	White double-sided adhesive tape
14.	White plastic shell	39.	Black foam
15.	White silicone sealing ring	40.	Chip LED light
16.	Silvery metal nut	41.	Chip capacitor
17.	Silvery metal	42.	Chip resistor
18.	Silvery metal nut	43.	Chip IC
19.	Silvery metal shell	44.	Soldering tin
20.	White plastic fiber tape	45.	Small PCB
21.	White plastic bracket	46.	Foam
22.	Green silicone	47.	White plastic interface
23.	Silvery metal	48.	Silvery metal pin
24.	White plastic	49.	White plastic
25.	Soldering tin	50.	Silvery metal



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Tested Material Description

No.	Description	No.	Description
51.	Red silicone ring	58.	Silvery metal
52.	Silvery metal shell	59.	Black rubber
53.	Black plastic	60.	Separator
54.	Silvery metal	61.	Chip diode
55.	Chip inductor	62.	Chip triode
56.	Silvery metal	63.	Soldering tin
57.	Black plastic	64.	PCB

Tested Result

(1) Screening Result

Tested Item(s)	Screening Result									
	1	2	3	4	5	6	7	8	9	10
Lead (Pb)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cadmium (Cd)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Mercury (Hg)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Chromium (Cr(VI))	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Bromine (PBBs & PBDEs)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Dibutyl phthalate(DBP)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Benzylbutyl phthalate(BBP)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Di-2-ethylhexyl phthalate(DEHP)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Diisobutyl phthalate(DIBP)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL

Tested Item(s)	Screening Result									
	11	12	13	14	15	16	17	18	19	20
Lead (Pb)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cadmium (Cd)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Mercury (Hg)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Chromium (Cr(VI))	BL	BL	BL	BL	BL	X	X	X	X	BL
Total Bromine (PBBs & PBDEs)	BL	N/A	N/A	BL	BL	N/A	N/A	N/A	N/A	BL
Dibutyl phthalate(DBP)	BL	N/A	N/A	BL	BL	N/A	N/A	N/A	N/A	BL
Benzylbutyl phthalate(BBP)	BL	N/A	N/A	BL	BL	N/A	N/A	N/A	N/A	BL
Di-2-ethylhexyl phthalate(DEHP)	BL	N/A	N/A	BL	BL	N/A	N/A	N/A	N/A	BL
Diisobutyl phthalate(DIBP)	BL	N/A	N/A	BL	BL	N/A	N/A	N/A	N/A	BL

Shenzhen Alpha Product Testing Co., Ltd.

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China



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(1) Screening Result

Tested Item(s)	Screening Result									
	21	22	23	24	25	26	27	28	29	30
Lead (Pb)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cadmium (Cd)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Mercury (Hg)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Chromium (Cr(VI))	BL	BL	BL	BL	BL	BL	BL	BL	X	BL
Total Bromine (PBBs & PBDEs)	BL	BL	N/A	BL	N/A	N/A	N/A	BL	N/A	N/A
Dibutyl phthalate(DBP)	BL	BL	N/A	BL	N/A	N/A	N/A	BL	N/A	N/A
Benzylbutyl phthalate(BBP)	BL	BL	N/A	BL	N/A	N/A	N/A	BL	N/A	N/A
Di-2-ethylhexyl phthalate(DEHP)	BL	BL	N/A	BL	N/A	N/A	N/A	BL	N/A	N/A
Diisobutyl phthalate(DIBP)	BL	BL	N/A	BL	N/A	N/A	N/A	BL	N/A	N/A

Tested Item(s)	Screening Result									
	31	32	33	34	35	36	37	38	39	40
Lead (Pb)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cadmium (Cd)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Mercury (Hg)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Chromium (Cr(VI))	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Bromine (PBBs & PBDEs)	N/A	BL	BL	BL	BL	BL	N/A	BL	BL	BL
Dibutyl phthalate(DBP)	N/A	BL	BL	BL	BL	BL	N/A	BL	BL	BL
Benzylbutyl phthalate(BBP)	N/A	BL	BL	BL	BL	BL	N/A	BL	BL	BL
Di-2-ethylhexyl phthalate(DEHP)	N/A	BL	BL	BL	BL	BL	N/A	BL	BL	BL
Diisobutyl phthalate(DIBP)	N/A	BL	BL	BL	BL	BL	N/A	BL	BL	BL

Tested Item(s)	Screening Result									
	41	42	43	44	45	46	47	48	49	50
Lead (Pb)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cadmium (Cd)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Mercury (Hg)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Chromium (Cr(VI))	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Bromine (PBBs & PBDEs)	BL	BL	BL	N/A	BL*	BL	BL*	N/A	BL	N/A
Dibutyl phthalate(DBP)	BL	BL	BL	N/A	BL	BL	BL	N/A	BL	N/A
Benzylbutyl phthalate(BBP)	BL	BL	BL	N/A	BL	BL	BL	N/A	BL	N/A
Di-2-ethylhexyl phthalate(DEHP)	BL	BL	BL	N/A	BL	BL	BL	N/A	BL	N/A
Diisobutyl phthalate(DIBP)	BL	BL	BL	N/A	BL	BL	BL	N/A	BL	N/A

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(1) Screening Result

Tested Item(s)	Screening Result									
	51	52	53	54	55	56	57	58	59	60
Lead (Pb)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cadmium (Cd)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Mercury (Hg)	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Total Chromium (Cr(VI))	BL	X	BL	BL	BL	BL	BL	BL	BL	BL
Total Bromine (PBBs & PBDEs)	BL	N/A	BL	N/A	BL	N/A	BL	N/A	BL	BL
Dibutyl phthalate(DBP)	BL	N/A	BL	N/A	BL	N/A	BL	N/A	BL	BL
Benzylbutyl phthalate(BBP)	BL	N/A	BL	N/A	BL	N/A	BL	N/A	BL	BL
Di-2-ethylhexyl phthalate(DEHP)	BL	N/A	BL	N/A	BL	N/A	BL	N/A	BL	BL
Diisobutyl phthalate(DIBP)	BL	N/A	BL	N/A	BL	N/A	BL	N/A	BL	BL

Tested Item(s)	Screening Result			
	61	62	63	64
Lead (Pb)	BL	BL	BL	BL
Cadmium (Cd)	BL	BL	BL	BL
Mercury (Hg)	BL	BL	BL	BL
Total Chromium (Cr(VI))	BL	BL	BL	BL
Total Bromine (PBBs & PBDEs)	BL	BL	N/A	BL
Dibutyl phthalate(DBP)	BL	BL	N/A	BL
Benzylbutyl phthalate(BBP)	BL	BL	N/A	BL
Di-2-ethylhexyl phthalate(DEHP)	BL	BL	N/A	BL
Diisobutyl phthalate(DIBP)	BL	BL	N/A	BL



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(2) Test result for Chemical Confirmation

(a) The test result of Hexavalent Chromium (Cr(VI))

Testing item	Result (mg/kg)					
	16	17	18	19	29	52
Hexavalent Chromium (Cr(VI))	N.D	N.D	N.D	N.D	N.D	N.D

Remark: N.D = Not Detected (<MDL or LOQ), MDL = Method Detection Limit.
IN= Inconclusive, Further chemical test, X = The range of needing to do further testing.
BL = Below the screening limit, OL = Over the screening limit.
N/A= Not applicable.
3σ= The reproducibility of analytical instruments.
* = The screened result was found and further chemical test.
When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br exclusively, and then chemical screening was conducted if the XRF result is X.
When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.
LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 µg/cm².
LOD= Detection limit.
mg/kg = ppm = parts per million, 1000 mg/kg = 0.1%.



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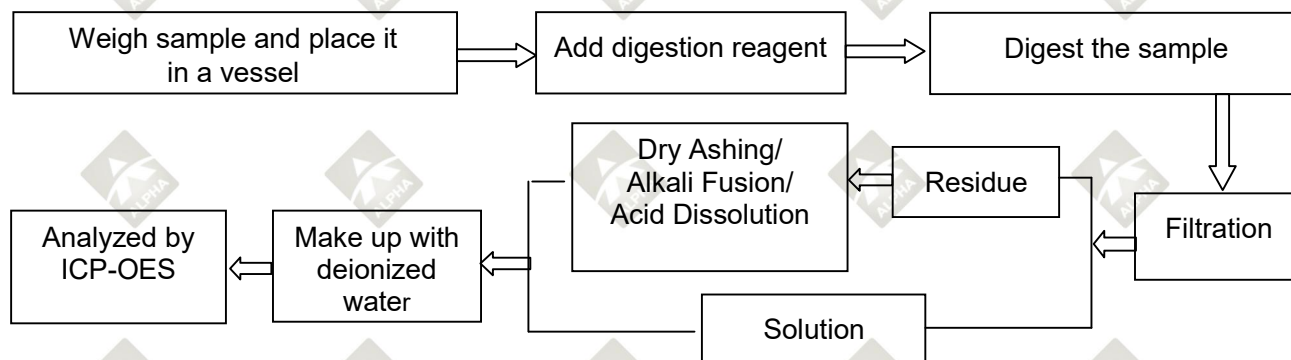
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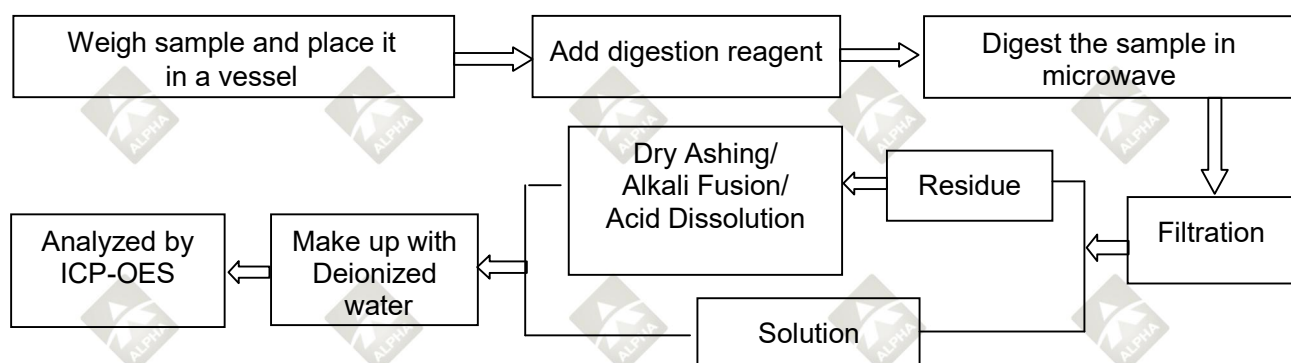
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Test Process

1. Lead(Pb), Cadmium(Cd), Chromium(Cr)

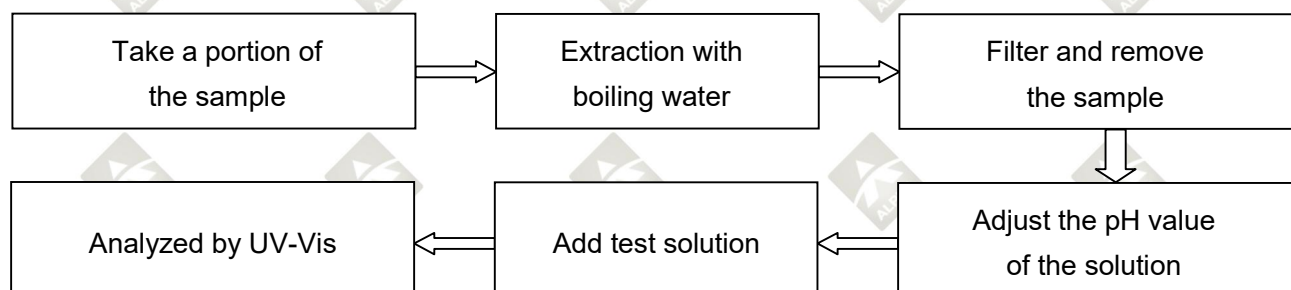


2. Mercury(Hg)



3. Hexavalent Chromium (Cr (VI))

(1) IEC 62321-7-1:2015
Plating/Metal sample(s)





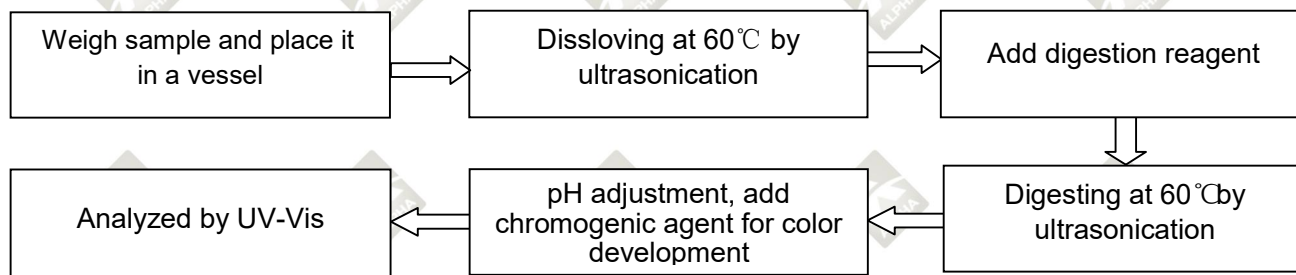
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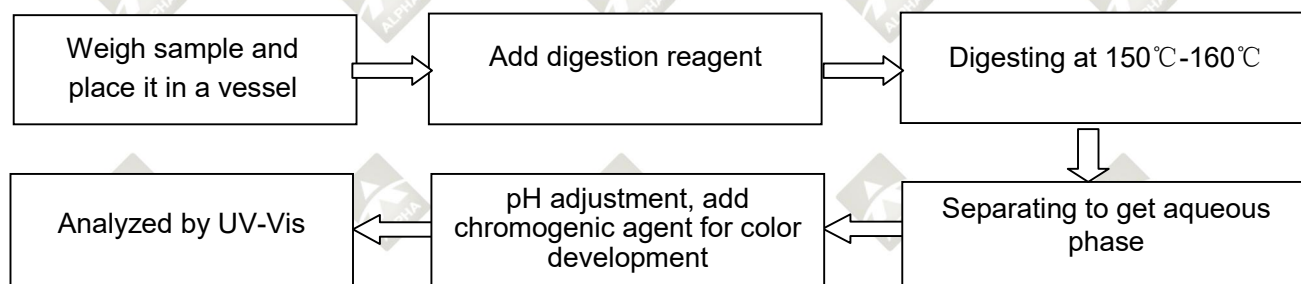
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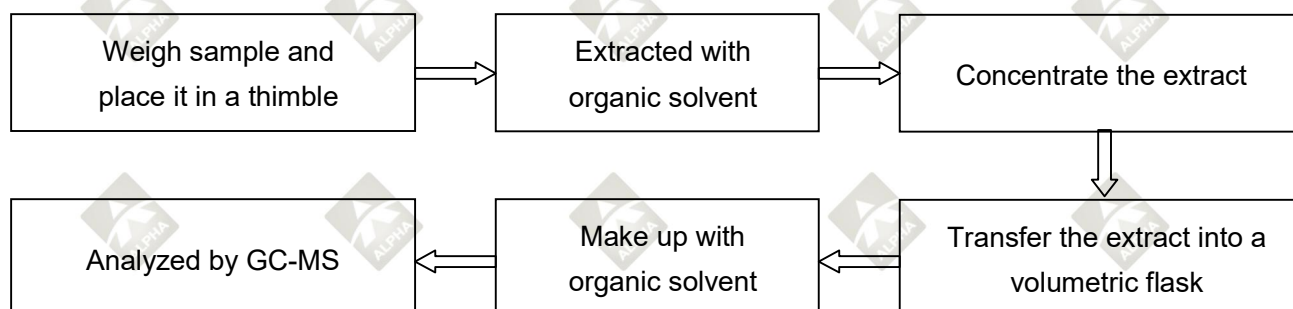
(2) IEC 62321-7-2:2017 Non-metal sample(s) (Material ABS/PC/PVC)



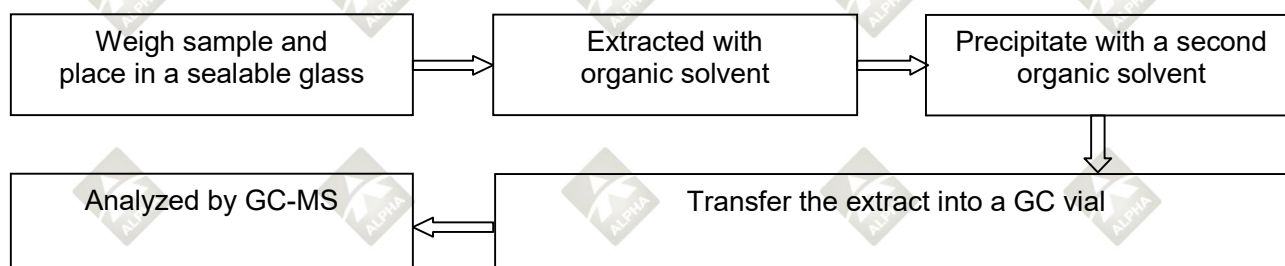
(3) IEC 62321-7-2:2017 Non-metal sample(s) (Others)



4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. Phthalates(DBP/BBP/DEHP/DIBP)



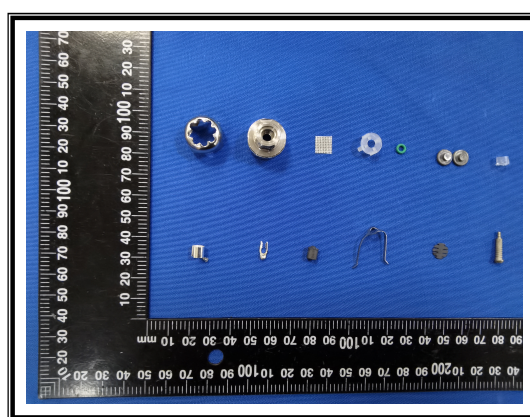
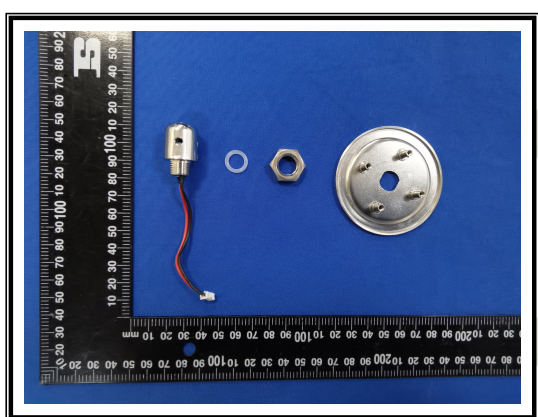
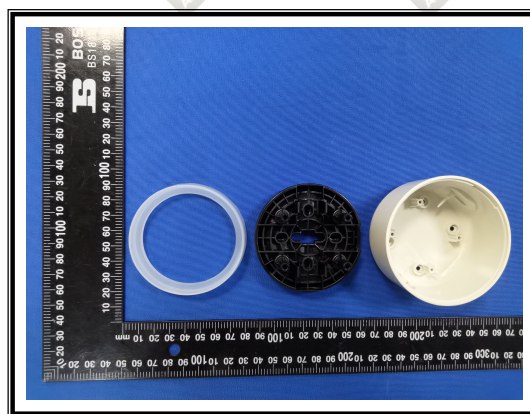
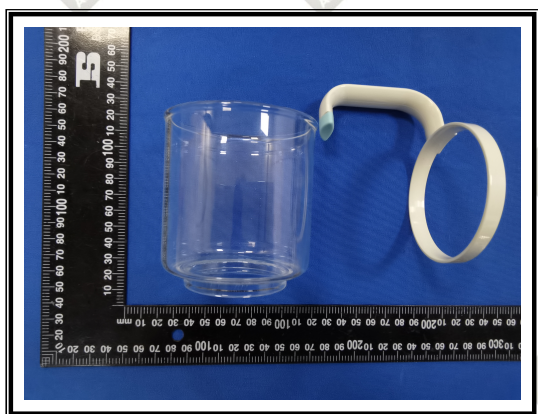
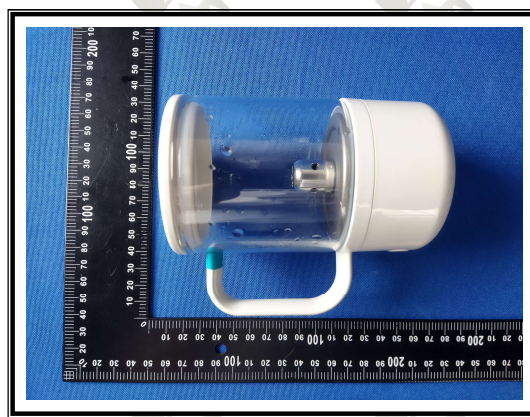
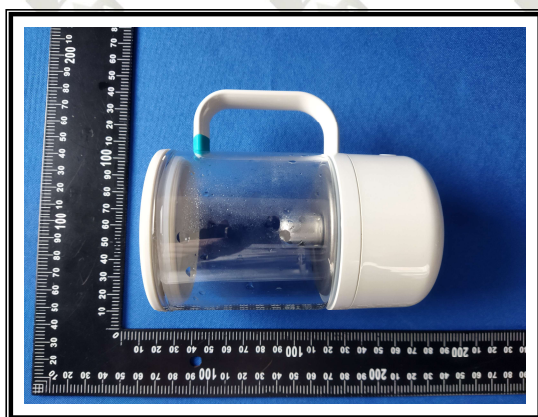
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Tested sample photo(s)



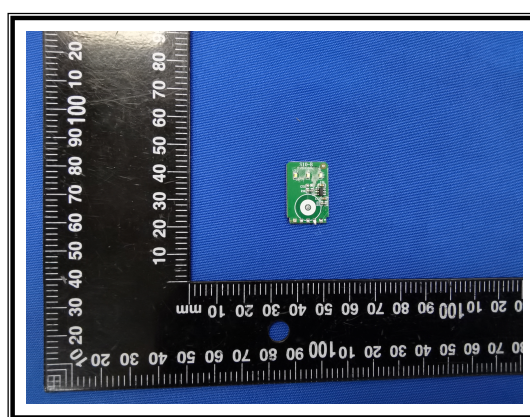
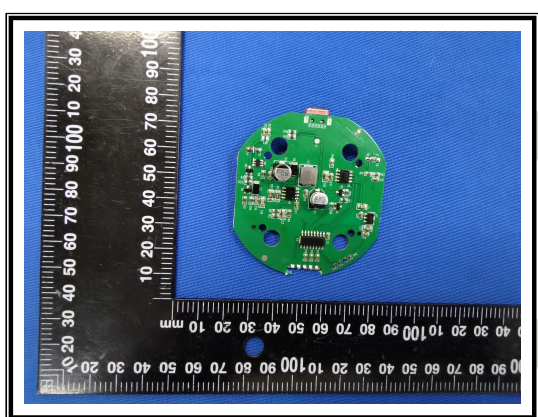
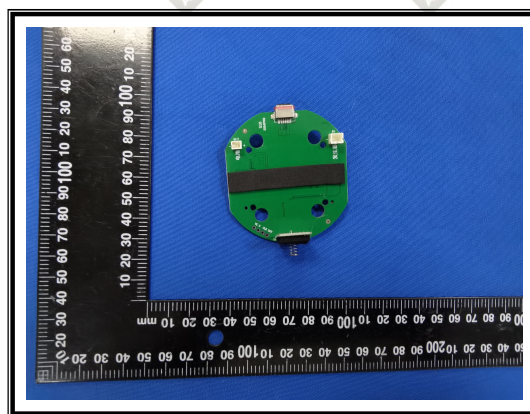
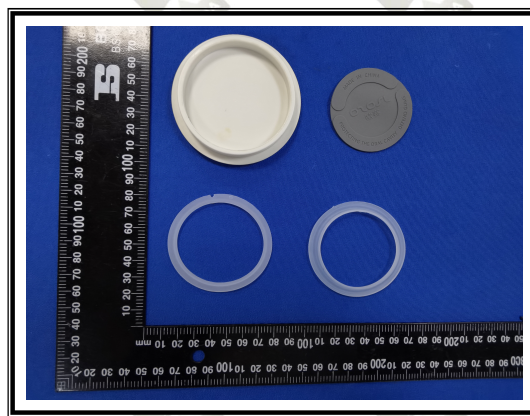
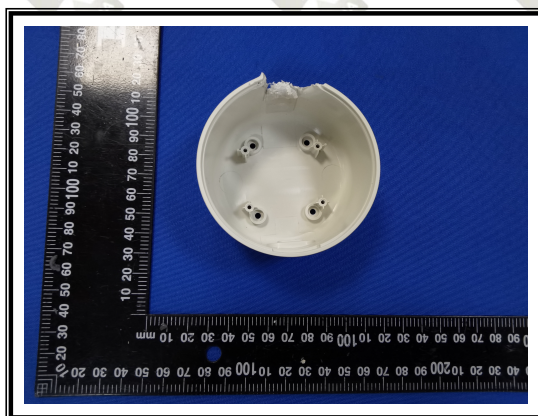
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Tested sample photo(s)



--- End of report ---

Statement:

1. The sample(s) and sample Information was/were provided by the client who should be responsible for the authenticity which ALPHA hasn't verified.
2. The result(s) shown in this report refer(s) only to the sample(s) tested.
3. Without written approval of ALPHA, this report can't be reproduced except in full.
4. Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.

Shenzhen Alpha Product Testing Co., Ltd.

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