

Report No. ZHT-20230696746R

Applicant: Ningbo Glory King Imp&Exp Co., Ltd.

Address : 1343, No.55 Dongdu Road, Haishu District, Ningbo, Zhejiang

Province, China.

The submitted sample and sample information was/were submitted and identified by/on the behalf

of the client

Sample name : AROMA DIFFUSER

Trademark : N/A

Testing type /model : KJR-041

020, 021, 080, 096, 099, 186, 029, 181, 101

Additional type /model : N/A

Manufacturer : Ningbo Glory King Imp&Exp Co., Ltd.

Address : 1343, No.55 Dongdu Road, Haishu District, Ningbo, Zhejiang

Province, China.

Sample received date : Jul. 03, 2023

Testing period : Jul. 03, 2023 to Jul. 10, 2023

Test requested: 1. As specified by client, to screen Lead(Pb), Cadmium(Cd),

Mercury(Hg), Chromium(Cr) and Bromine(Br) in the submitted

Date: Jul. 10, 2023

sample(s) by XRF.

2. As specified by client, when screening results exceed the XRF screening limit in IEC 62321-3-1:2013, further use of chemical methods are required to test the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the

submitted samples.

3. As specified by client, to test the Di-isobutyl phthalate(DIBP),

Dibutyl phthalate(DBP), Benzyl butyl phthalate(BBP),

Bis(2-ethyl(hexyl) phthalate)(DEHP)in the submitted sample(s).

According to the RoHS Directive 2011/65/EU and amendment Commission Delegated

Directive (EU) 2015/863

Tested by

*****F br more detailed information, please refer

Wei Huang

to the next page'

Approved by

Fan Yang

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APPROVED



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Test Method:

A. Screening test by XRF spectroscopy

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1:2013.

Element	Limit of IEC 62321-3	MDL		
	Polymers and metals	Composite material	Polymers	Other material
Pb	BL≤(700-3σ) <x <(1300+3σ)<="" td=""><td>BL≤(500-3σ)<x <(1500+3σ)<="" td=""><td>10 mg/kg</td><td>50 mg/kg</td></x></td></x>	BL≤(500-3σ) <x <(1500+3σ)<="" td=""><td>10 mg/kg</td><td>50 mg/kg</td></x>	10 mg/kg	50 mg/kg
PD	≤OL	≤OL	10 mg/kg	50 mg/kg
Cd	BL≤(70-3σ) <x <(130+3σ)<="" td=""><td>LOD≤(50-3σ)<x <(150+3σ)<="" td=""><td>10 mg/kg</td><td>50 mg/kg</td></x></td></x>	LOD≤(50-3σ) <x <(150+3σ)<="" td=""><td>10 mg/kg</td><td>50 mg/kg</td></x>	10 mg/kg	50 mg/kg
Cu	≤OL	≤OL	10 mg/kg	50 mg/kg
На	BL≤(700-3σ) <x <(1300+3σ)<="" td=""><td>BL≤(500-3σ)<x <(1500+3σ)<="" td=""><td>10 mg/kg</td><td>50 mg/kg</td></x></td></x>	BL≤(500-3σ) <x <(1500+3σ)<="" td=""><td>10 mg/kg</td><td>50 mg/kg</td></x>	10 mg/kg	50 mg/kg
Hg	≤OL	≤OL	10 mg/kg	50 mg/kg
Cr	BL≤(700-3σ)< X	BL≤(500-3σ)< X	10 mg/kg	50 mg/kg
Br	BL≤(300-3σ)< X	BL≤(250-3σ)< X	10 mg/kg	50 mg/kg

Note:

- -BL = Under the XRF screening limit
- -OL = Further chemical test will be conducted while result is above the screening limit
- -X= The symbol "X" marks the region where further investigation is necessary
- -3σ = The reproducibility of analytical instruments
- -LOD= Detection limit
- -"--" = Not regulated.

B. Chemical Test

Test Item(s)	Test Method	Measured Equipment(s)	MDL	Limit
Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg
Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg
Heyevelent Chromium Cr(\/I)	IEC 62321-7-1:2015 Ed.1.0	111/11/10		1000 mg/kg
Hexavalent Chromium Cr(VI)	IEC 62321-7-2:2017 Ed.1.0	UV-VIS	8 mg/kg	1000 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg
Phthalates	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg	1000 mg/kg

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Test Result(s):

Sample	Sample	Toolod Homo	XRF Screening Test	Chemical Test	Canalusian	
No.	Description	Tested Items	Unit (mg/kg)	Unit (mg/kg)	Conclusion	
		Pb	BL	/		
		Cd	BL	/		
1	White plastic	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		
		Cd	BL	/		
2	Charging Cable	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		
	Black wire	Cd	BL	/		
3		Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
	Metal head	Pb	BL	/		
		Cd	BL	/		
4		Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		
		Cd	BL	/		
5	PCB	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		
		Cd	BL	/		
6	Red Wire	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		

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	IC	Pb	BL	/		
		Cd	BL	/		
7		Hg	BL	/	PASS	
7		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		
	Flooring by the	Cd	BL	/		
8	Electrolytic	Hg	BL	/	PASS	
	capacitor	Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		
	Inductance	Cd	BL	/		
9		ductance Hg		/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		
	White Plastic	Cd	BL	/		
10		White Plastic	Hg	BL	/	PASS
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		
		Cd	BL	/		
11	Key-press	Hg	BL	/	PASS	
		Cr(Cr(VI))	BL	/		
		Br(PBBs&PBDEs)	BL	/		
		Pb	BL	/		
		Cd	BL	/		
12	Solder point	Hg	BL	/	PASS	
	Solder point	Cr(Cr(VI)) BL		/		
		Br(PBBs&PBDEs)	BL	/		



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Tested Item(s)	Results Unit (mg/kg)									
rested item(s)	1	2	3	4	5	6	7	8	9	
Di-isobutyl phthalate(DIBP) CAS #:84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibutyl phthalate(DBP) CAS #:84-74-2	N.D.	N.D.	64	N.D.	N.D.	174	130	N.D.	N.D.	
Benzylbutyl phthalate(BBP) CAS #:85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Bis(2-ethyl(hexyl) phthalate)(DEHP) CAS #:117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

Tested Item(s)	Results Unit (mg/kg)									
, ,	10	11	12	13	14	15	16	17	18	
Di-isobutyl phthalate(DIBP) CAS #:84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibutyl phthalate(DBP) CAS #:84-74-2	N.D.	61	61	64	91	N.D.	N.D.	58	381	
Benzylbutyl phthalate(BBP) CAS #:85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Bis(2-ethyl(hexyl) phthalate)(DEHP) CAS #:117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

Tested Item(s)	Results Unit (mg/kg)									
()	19	20	21	22	23	24	25	27		
Di-isobutyl phthalate(DIBP) CAS #:84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Dibutyl phthalate(DBP) CAS #:84-74-2	93	254	54	N.D.	N.D.	N.D.	N.D.	N.D.		
Benzylbutyl phthalate(BBP) CAS #:85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		
Bis(2-ethyl(hexyl) phthalate)(DEHP) CAS #:117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.		

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Note:

- -MDL = Method Detection Limit
- -N.D. = Not Detected (<MDL)
- -mg/kg = ppm = parts per million
- -" / "= Not conducted.
- -Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than $0.1\mu g/cm^2$ with $50cm^2$ sample surface area used.
- -Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than $0.13\mu g/cm^2$ with $50cm^2$ sample surface area used.

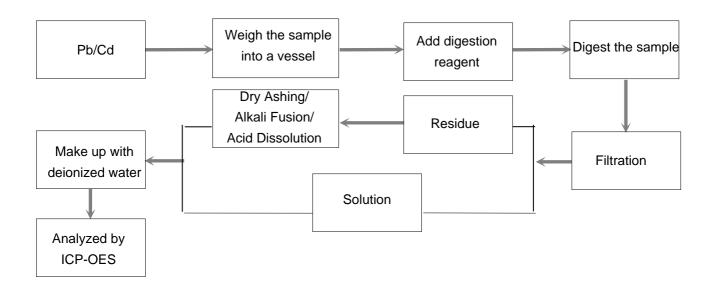
Remark:

- The screening results are only used for reference.
- When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.

Test Process:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

♦IEC 62321-5:2013 Ed.1.0

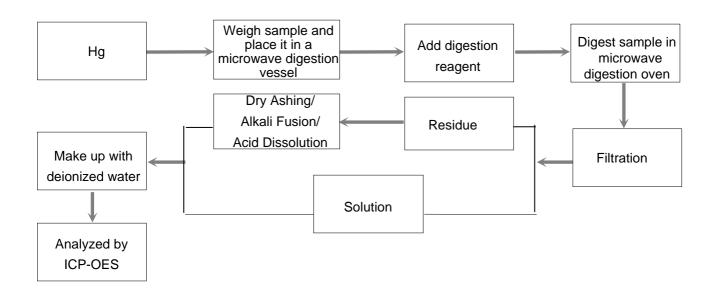


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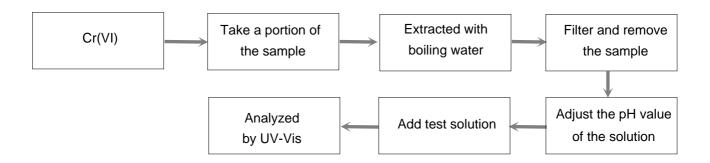


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♦IEC 62321-4:2013+AMD1:2017



♦IEC 62321-7-1:2015 Ed.1.0



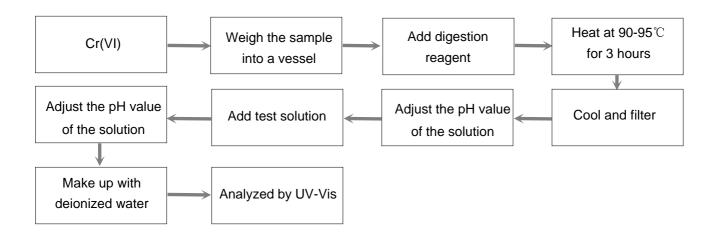
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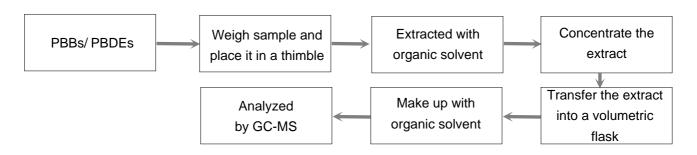
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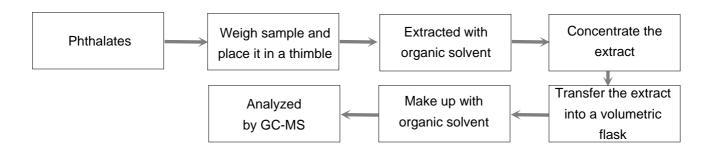
♦IEC 62321-7-2:2017 Ed.1.0



♦IEC 62321-6:2015 Ed.1.0



♦IEC 62321-8:2017 Ed.1.0



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Photograph of Sample

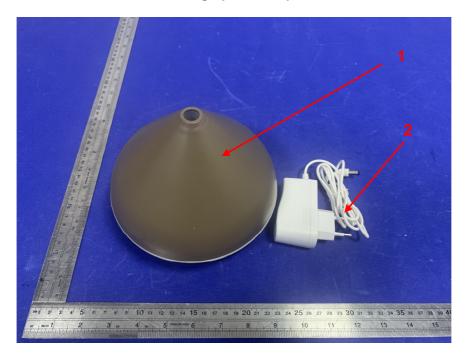


Fig.1

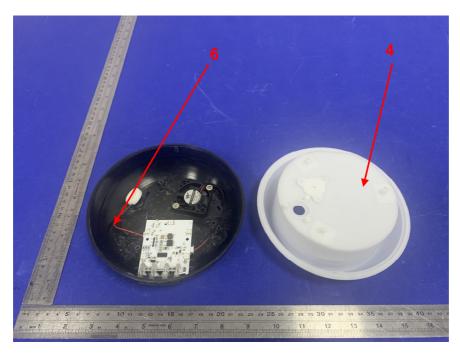


Fig.2

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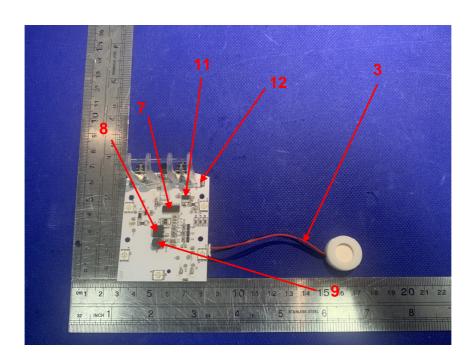


Fig.3

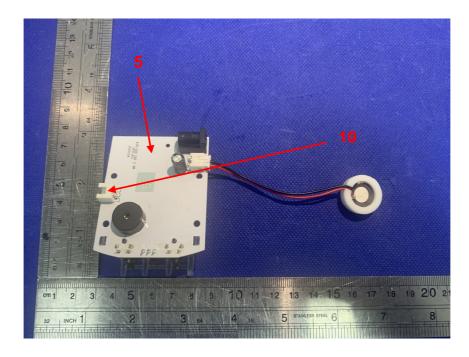


Fig.4



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STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without stamp of laboratory.
- 4. The test report is invalid without signature of person(s) testing and authorizing.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 7. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address: 206, Yong Fu Buiding, Yong Fu Road, Fu Yong, Bao'an District, Shenzhen City, Guangdong P.R. China. P.C.: 518103

TEL: 0755-36697690 Internet: Web: Http://www.zht-lab.com.cn

**** END OF REPORT ****

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