

TEST REPORT

Applicant: Shenzhen Domino Times Technology Co., Ltd
Address: Room 806, Taibang Tech. Building, Yuehai Street, Nanshan District, Shenzhen.
Manufacturer: Shenzhen Domino Times Technology Co., Ltd
Address: Room 806, Taibang Tech. Building, Yuehai Street, Nanshan District, Shenzhen.

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

Sample Name: Smart Watch
Model Number: DM80
Sample Received Date: October 6, 2023
Testing Period: October 7, 2023 to October 14, 2023
Report No.: XK2309013061R

As specified by client, to screen Lead (Pb), Cadmium (Cd), Mercury (Hg), Chromium (Cr) and Bromine (Br) in the submitted sample(s) by XRF.

Test Requested: 2. As specified by client, when screening results exceed the XRF screening limit in IEC62321:2013 Edition 1.0, further use of wet chemical methods are required to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutylphthalate (DBP), and Diisobutyl phthalate (DIBP) in the submitted sample(s).

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

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

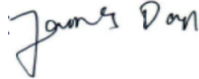
Test Conclusion: The test results comply with the limits of RoHS 2.0 Directive (EU) 2015/863 and (EU) 2017/2102 amending Annex II to Directive 2011/65/EU.

Compiled by:



Daisy Lian

Reviewed by:



James Dan

Approved by:



Andy Wang/Manager
Date: October 14, 2023



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen SiCT Technology Co., Ltd.

Test Method:

When screening results exceed the XRF screening limit in IEC62321-3-1: 2013, further use of chemical methods are required to test the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs) and Polybrominated Diphenyl Ethers(PBDEs)

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

Element	Limit of IEC 62321-3-1:2013 (mg/kg)		
	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	$BL \leq (300-3\sigma) < X$	/	$BL \leq (250-3\sigma) < X$

Note: BL=Under the XRF screening limit OL=Over the XRF screening limit
 X=The symbol "X" marks the region where further investigation is necessary.
 3σ =The reproducibility of analytical instruments LOD= Detection limit

2. Chemical Test

Test item	Test method	Test instrument	MDL	Limit
Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	10 mg/kg	1000 mg/kg
Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	10 mg/kg	100 mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	10 mg/kg	1000 mg/kg
Hexavalent Chromium(Cr(VI))	IEC62321-7-1:2015 Ed.1.0	UV-Vis	0.10 μg/cm ²	1000 mg/kg
	IEC 62321-7-2:2017 Ed.1.0		10 mg/kg	
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015 Ed.1.0	GC-MS	100 mg/kg	1000 mg/kg
Polybrominated, Diphenyl Ethers(PBDEs)	IEC 62321-6:2015 Ed.1.0	GC-MS	100 mg/kg	1000 mg/kg
Bis-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg	1000 mg/kg
Benzyl butyl Phthalate (BBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg	1000 mg/kg
Dibutyl Phthalate (DBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg	1000 mg/kg
Diisobutyl Phthalate(DIBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg	1000 mg/kg

Test Results:

Sample No.	Sample Description	Tested Items	XRF Screening Test	Chemical Test Unit (mg/kg)	Conclusion
1	Black plastic watch band	Pb	ND	NT	Pass
		Cd	ND	NT	
		Hg	ND	NT	
		Cr(Cr(VI))	ND	NT	
		Br(PBBs&PBD Es)	ND	NT	
		DBP	NT	ND	
		DEHP	NT	ND	
		BBP	NT	ND	
		DIBP	NT	ND	
2	Silver metal buckle	Pb	ND	NT	Pass
		Cd	ND	NT	
		Hg	ND	NT	
		Cr(Cr(VI))	ND	NT	
		Br(PBBs&PBD Es)	NT	NT	
		DBP	NT	NT	
		DEHP	NT	NT	
		BBP	NT	NT	
		DIBP	NT	NT	
3	LED display screen	Pb	ND	NT	Pass
		Cd	ND	NT	
		Hg	ND	NT	
		Cr(Cr(VI))	ND	NT	
		Br(PBBs&PBD Es)	ND	NT	
		DBP	NT	ND	
		DEHP	NT	ND	
		BBP	NT	ND	
		DIBP	NT	ND	
4	Camera	Pb	ND	NT	Pass
		Cd	ND	NT	
		Hg	ND	NT	
		Cr(Cr(VI))	ND	NT	
		Br(PBBs&PBD Es)	ND	NT	
		DBP	NT	ND	
		DEHP	NT	ND	
		BBP	NT	ND	
		DIBP	NT	ND	

Sample No.	Sample Description	Tested Items	XRF Screening Test	Chemical Test Unit (mg/kg)	Conclusion
5	Lithium battery	Pb	ND	NT	Pass
		Cd	ND	NT	
		Hg	ND	NT	
		Cr(Cr(VI))	ND	NT	
		Br(PBBs&PBD Es)	ND	NT	
		DBP	NT	ND	
		DEHP	NT	ND	
		BBP	NT	ND	
		DIBP	NT	ND	
6	PCB	Pb	ND	NT	Pass
		Cd	ND	NT	
		Hg	ND	NT	
		Cr(Cr(VI))	ND	NT	
		Br(PBBs&PBD Es)	ND	NT	
		DBP	NT	ND	
		DEHP	NT	ND	
		BBP	NT	ND	
		DIBP	NT	ND	
7	Black metal frame	Pb	ND	NT	Pass
		Cd	ND	NT	
		Hg	ND	NT	
		Cr(Cr(VI))	ND	NT	
		Br(PBBs&PBD Es)	NT	NT	
		DBP	NT	NT	
		DEHP	NT	NT	
		BBP	NT	NT	
		DIBP	NT	NT	
8	Black metal cover	Pb	ND	NT	Pass
		Cd	ND	NT	
		Hg	ND	NT	
		Cr(Cr(VI))	ND	NT	
		Br(PBBs&PBD Es)	NT	NT	
		DBP	NT	NT	
		DEHP	NT	NT	
		BBP	NT	NT	
		DIBP	NT	NT	

Note: 1. ND = Not Detected (<MDL) MDL = Method Detection Limit
mg/kg = ppm = 0.0001% NT = Not tested

2. BL = Under the XRF screening limit

IN = Further chemical test will be conducted when the screening result inconclusive

OL = Further chemical test will be conducted while the result is above the screening limit.

3. For metal samples, the sample is negative for Cr(VI), if the Cr(VI) concentration is less than 0.10 $\mu\text{g}/\text{cm}^2$, the coating is considered a non- Cr(VI) based coating;

The sample is positive for Cr(VI), if the Cr(VI) concentration is greater than 0.13 $\mu\text{g}/\text{cm}^2$,
The sample coating is considered to contain Cr(VI);

The result is considered to be inconclusive, the Cr(VI) concentration is between the 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$, Unavoidable coating variations may influence the determination.
Because the storage condition and production date of the sample are not known, the test results of the sample of hexavalent chromium can only represent the state of hexavalent chromium in the samples tested.

Remark: 1. The screening results are only used for reference.

2. 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.

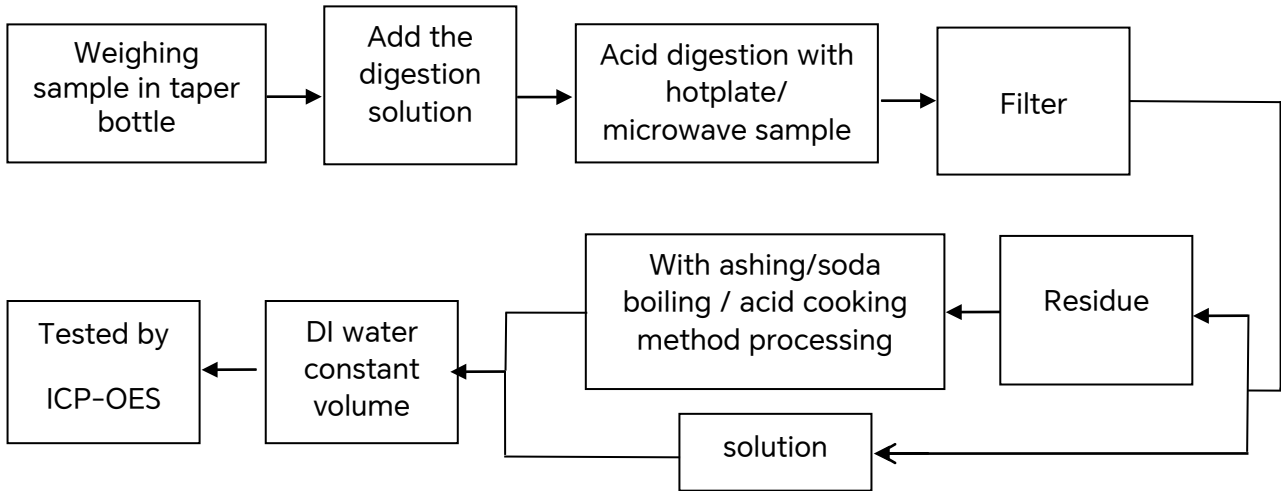
3. According to the client's statement, the material of the sample(s) comply with RoHS directive 2011/65/EU Annex III Exemption, Corresponding exemption clause:

#1 6(c) Lead is exempted as copper alloy containing up to 4% lead by weight.

#2 7(a) Lead is exempted as Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead).

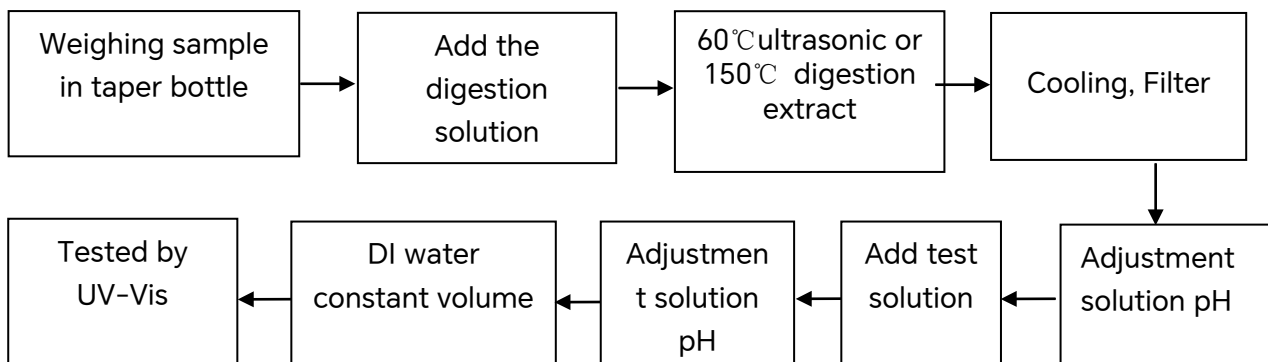
Test Flow:

1. Lead(Pb), Cadmium(Cd), Mercury (Hg)

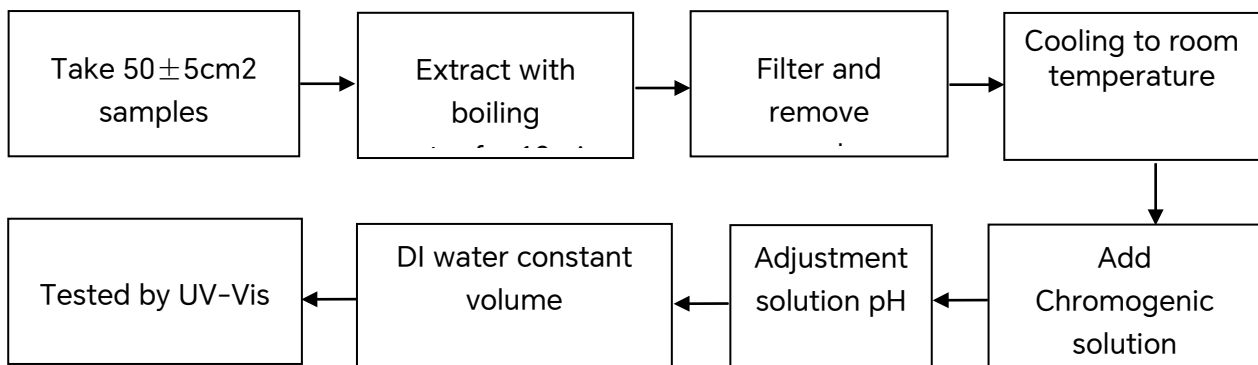


2. Hexavalent Chromium(Cr(VI))

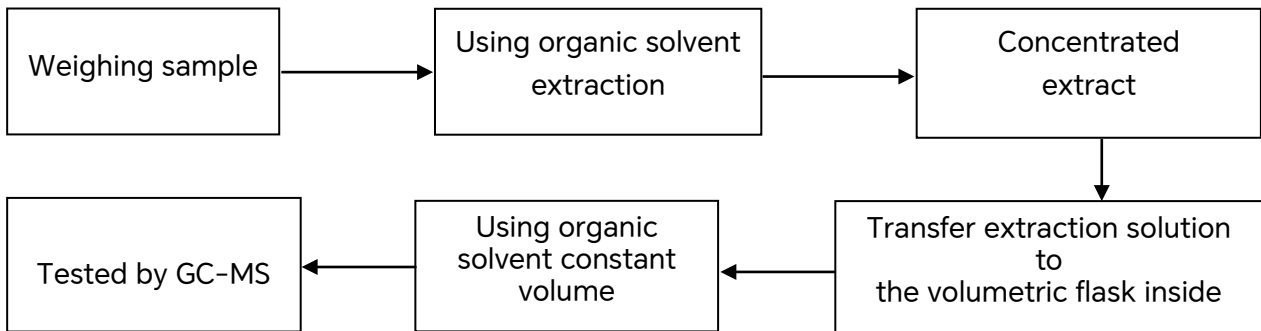
2.1 Non- metal sample(s)



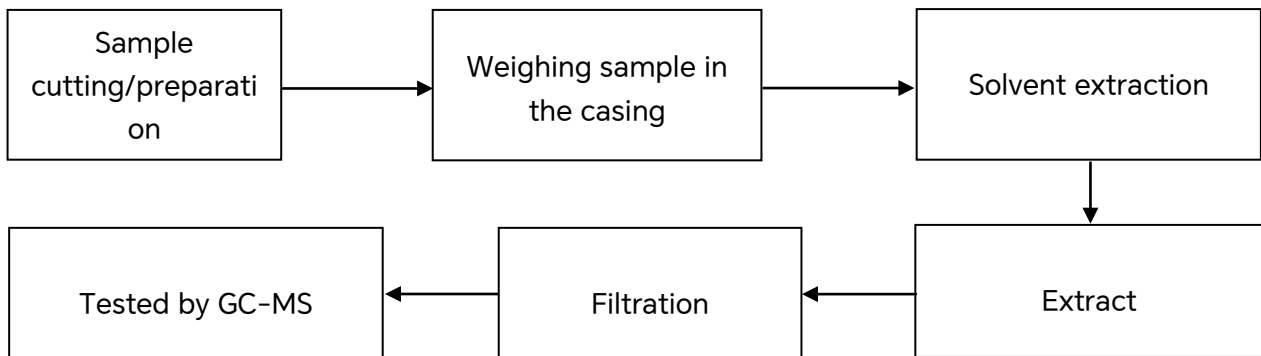
2.2 Metal sample(s)



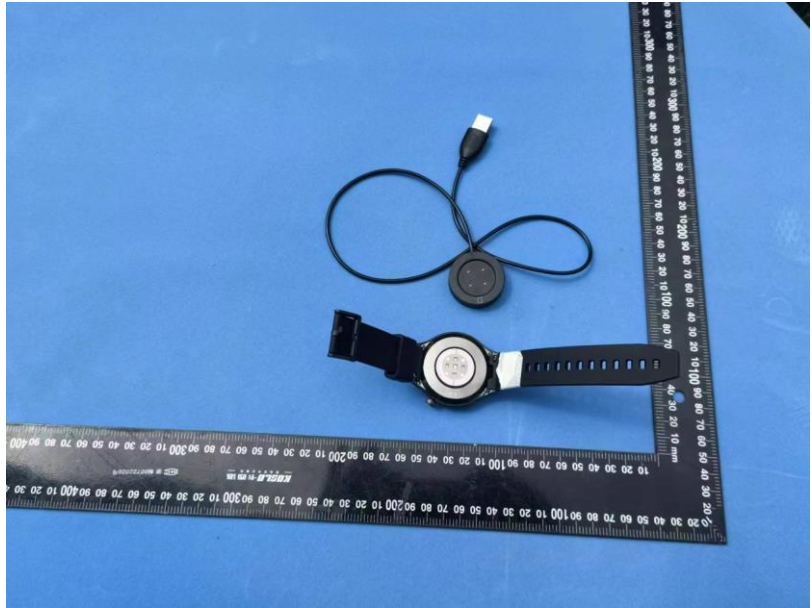
3. PBBs/ PBDEs



4. Phthalates



SAMPLE PHOTO(S):

<p>EUT view</p> <p><input checked="" type="checkbox"/> Whole</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p> <p><input type="checkbox"/> Internal</p>	 A photograph showing a black smartwatch with a black strap and a black charging cable with a circular magnetic charging puck. The items are laid out on a blue surface next to a black ruler for scale. The ruler shows measurements in millimeters and centimeters.
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<p>EUT view</p> <p><input checked="" type="checkbox"/> Whole</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p> <p><input type="checkbox"/> Internal</p>	 A photograph showing a black smartwatch with a black strap and a black charging cable with a circular magnetic charging puck. The items are laid out on a blue surface next to a black ruler for scale. The ruler shows measurements in millimeters and centimeters.
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Statement

- 1.This report is considered invalid without approved signature and special;
- 2.The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which SiCT's hasn't verified;
- 3.The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4.Without written approval of SiCT's, this report can't be reproduced except in full.

******* END OF REPORT *******