



TEST REPORT

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REPORT No.: CTB240626031CX

Applicant: Shenzhen Xiangmingda Technology Co.,Ltd
Address: 8th Floor Block A,Building C4, Third Industrial Zone, Huangmabu Community, Hangcheng Street, Baoan District, Shenzhen, Guangdong, China

Manufacturer: Shenzhen Xiangmingda Technology Co.,Ltd
Address: 8th Floor Block A,Building C4, Third Industrial Zone, Huangmabu Community, Hangcheng Street, Baoan District, Shenzhen, Guangdong, China

The following samples were submitted and identified on behalf of the clients as:

Sample name: Smart Watch
Brand: /
Model(s): ET485, ET486, ET488, ET489, F550, H3, ET470, ET495, ET496, ET498, ET499, ET585, ET586, ET588, ET589, ET595, ET596, ET598, ET599, T90, T92, T93, T95, T96, T98, T99, T82, T83, T85, T86, T88, T89, G10, G11, G12, G13, G15, G16, G17, G18, G19, G20, G21, G22, G23, G24, G25, G26, G27, G28, G29, GT16, GT26, GT19, GT29, S11, S12, S13, S15, S16, S18, S19, S22, S23, S24, S25, S26, S28, S29, ES10, ES11, ES12, ES13, ES14, ES15, ES20, ES21, ES22, ES23, ES25, F220, F230, F320, F330, E800, E810, E820, T68S, T69S, ET620, ET630, ET490, T86, ET390, T26, T13S

Sample received date: Jun. 25, 2024
Testing period: Jun. 25, 2024 to July 01, 2024
Test Method: Please refer to next page(s).
Test Result: Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
European Directive 2011/65/EU and amendment (EU) 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment	See test result

Tested By: 	Check By: 	Approve By:  
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Date: July 04, 2024

Test Method:

A. Screening test by XRF spectroscopy

XRF screening limits for regulated elements according to IEC 62321-3-1:2013

Element	Screening limit / mg/kg		MDL	
	Polymers and metals	Composite material	Polymers	Other material
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma)$ $\leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma)$ $\leq OL$	10mg/kg	50mg/kg
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma)$ $\leq OL$	$LOD \leq (50-3\sigma) < X < (150+3\sigma)$ $\leq OL$	10mg/kg	50mg/kg
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma)$ $\leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma)$ $\leq OL$	10mg/kg	50mg/kg
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$	10mg/kg	50mg/kg
Br	$BL \leq (300-3\sigma) < X$ (non-metal only)	$BL \leq (250-3\sigma) < X$	10mg/kg	50mg/kg

B. Chemical Test

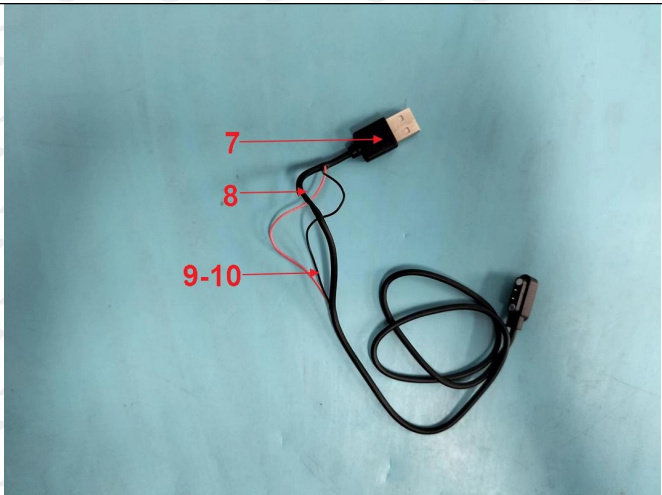
Test Item(s)	Test Method	Analysis Equipment(s)	MDL	Limit
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2 mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000mg/kg
Hexavalent Chromium Cr(VI)	IEC 62321-7-1:2015	UV-VIS	--	1000mg/kg
	IEC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

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Tested material list :

No.	Description	Photo(s) of tested material
1	Gray plating metal frame	
2	Optical glass slice	
3	FPC	
4	Silver metal watch buckle	
5	Black silicone watchband	
6	Black plastic case	
7	Black plastic handle	
8	Black plastic outside wire skin	
9	Red plastic inner wire skin	
10	Black plastic inner wire skin	

Note: test samples were specified by applicant.

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Test Result(s):

No.	XRF screening Result					Chemical confirm Result (mg/kg)	Remark	Conclusion
	Pb	Cd	Hg	Cr	Br			
1	BL	BL	BL	19087	NA	Cr ⁶⁺ : Negative	---	PASS
2	BL	BL	BL	BL	BL	---	---	PASS
3	BL	BL	BL	BL	BL	---	---	PASS
4	BL	BL	BL	106279	NA	Cr ⁶⁺ : Negative	---	PASS
5	BL	BL	BL	BL	BL	---	---	PASS
6	BL	BL	BL	2912	BL	Cr ⁶⁺ : N.D	---	PASS
7	BL	BL	BL	BL	BL	---	---	PASS
8	BL	BL	BL	BL	BL	---	---	PASS
9	BL	BL	BL	BL	BL	---	---	PASS
10	BL	BL	BL	BL	BL	---	---	PASS

Test Item(s)	Dibutyl Phthalate (DBP) (mg/kg)	Benzylbutyl Phthalate (BBP) (mg/kg)	Bis-(2-ethylhexyl) Phthalate (DEHP) (mg/kg)	Diisobutyl phthalate (DIBP) (mg/kg)	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit	1000	1000	1000	1000	
No.	Result (mg/kg)				
2	N.D	N.D	N.D	N.D	PASS
3	N.D	N.D	N.D	N.D	PASS
5	N.D	N.D	N.D	N.D	PASS
6	N.D	N.D	N.D	N.D	PASS
7	N.D	N.D	752	N.D	PASS
8	N.D	N.D	N.D	N.D	PASS
9+10	N.D	N.D	N.D	N.D	PASS

Remark:

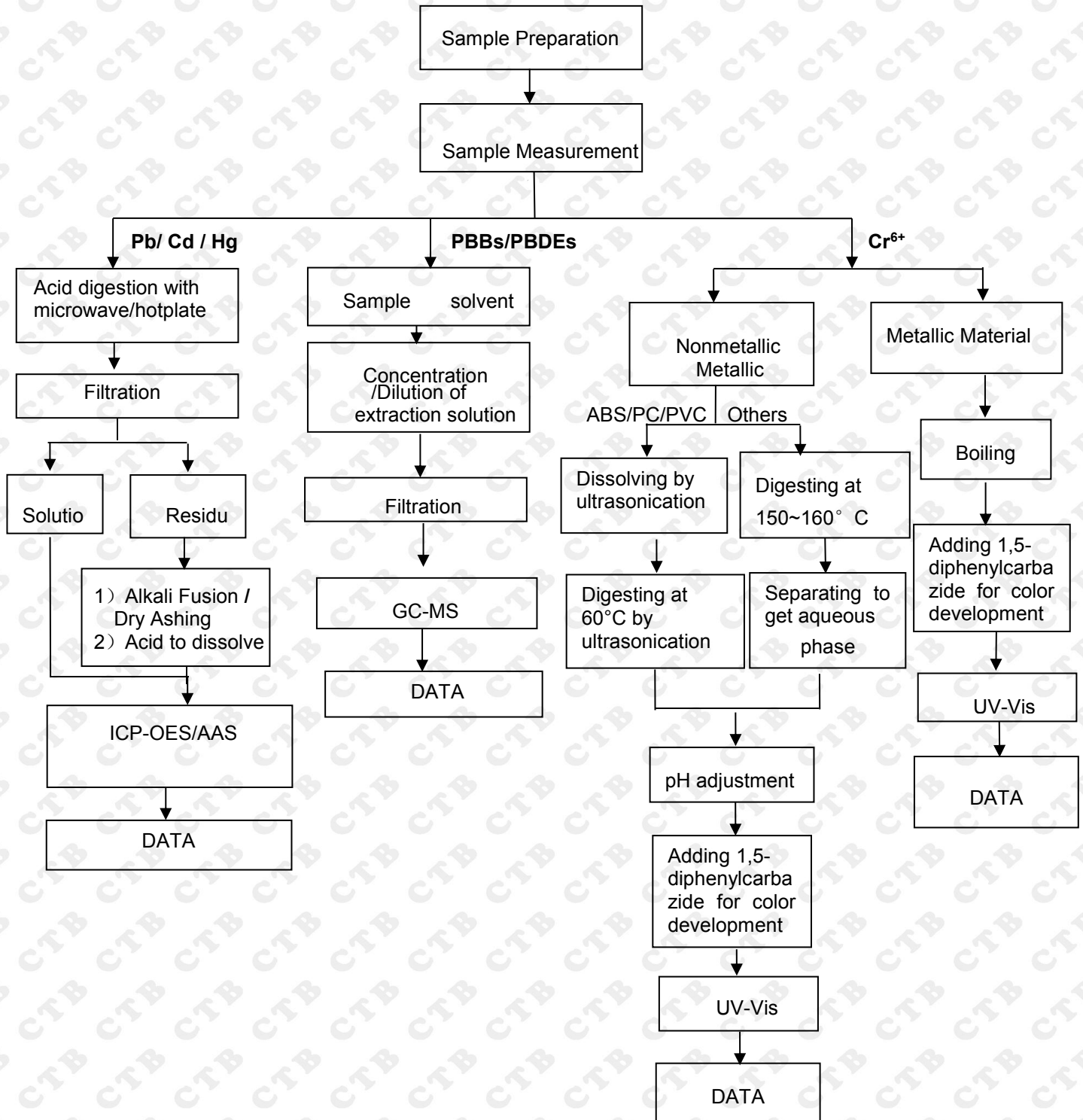
1. BL = below the limit
2. OL = over the limit
3. X = inconclusive, chemical confirm test is needed
4. NA = metal not applicable
5. mg/kg = milligram per kilogram = ppm
6. N.D = not detected
7. Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than $0.1\mu\text{g}/\text{cm}^2$ with 50cm^2 sample surface area used.
8. Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than $0.13\mu\text{g}/\text{cm}^2$ with 50cm^2
9. Sample surface area used. The limit for composite test should be divided by the mixed number.

Note:

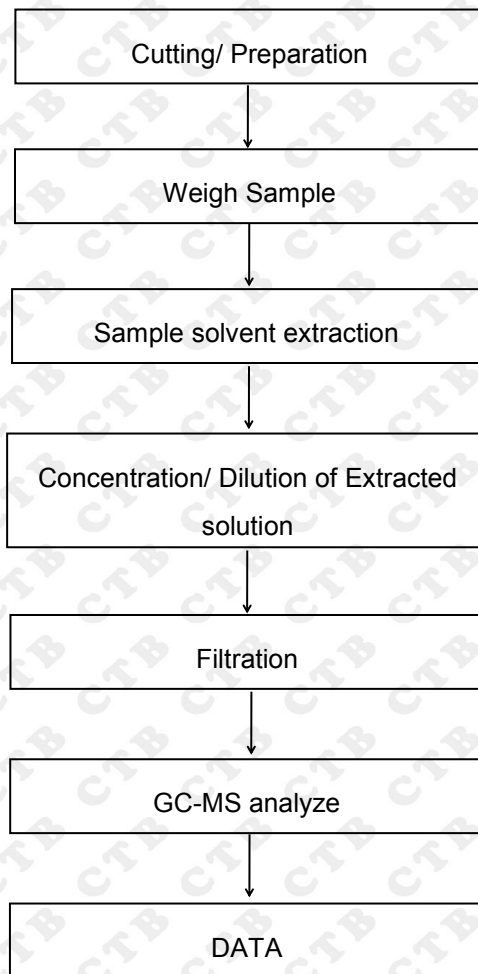
1. When perform screening tests, it is the result on total Br while test item on restricted substances is PBBs/PBDEs, it is the result on total Cr while test item on restricted substances is Cr^{6+} .
2. Pb, Cd, Hg, Cr and Br results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr^{6+}) and GC-MS (for PBBs, PBDEs) is needed to be performed, if the concentration falls into the inconclusive area according to IEC 62321-3-1:2013.
3. For the XRF screening test for RoHS elements, the reading may be different to the actual content in the sample be of non-uniformity composition.

Test flow chart

1. Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs



2. Phthalate test flow chart



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Photo documentation



*** End of Report ***

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "★" indicates the testing items were fulfilled by subcontracted lab. "×" indicates the items are not in CNAS accreditation scope.