CENTRE OF TESTING SERVICE INTERNATIONAL

OPERATE ACCORDING TO ISO/IEC 17025

TEST REPORT

Test Report Number : CTS190107003-C-R1

CTS (Ningbo) Testing Service Technology Co., Ltd.

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1 General Information

1.1 Application Details

Name	: Paibon Development Co., Ltd
Address	: No.37-1, Industrial Avenue, Banfu Town, Zhongshan City, Guangong Province, China
Contact	: Nick Chen
Telephone	: +86-760-86338260
Fax	: +86-760-86938170
Mobile telephone	: 13527197307
Email	: nick@paibon.com

1.2 Manufacturer & Buyer

Manufacturer name	: Paibon Development Co., Ltd
Address	: No.37-1, Industrial Avenue, Banfu Town, Zhongshan City, Guangong Province, China
Contact	: Nick Chen
Telephone	: +86-760-86338260
Fax	: +86-760-86938170
Mobile telephone	: 13527197307
Email	: nick@paibon.com
Buyer name	

1.3 Description of the Test Item

Sample name	: Electronic Scale
Model No.	: K7810, K7805,K7806,K7808,K7809,K7901,K7905,K7906,K7909, K7910,K7911/C, K7912/S/C,K7914, K7915,K7917, K7918, K7919, K7920,K7922,K7923,K7924,K7928,K7929,K7930,K7931,K7932, K7933,K7934,K7935,K7936/C,K7937,K7938,K7939,K7940, K7941, K7942,K7943,K7945,K7946, K7947,K7948,K7949,K7950, K7951, K7952,K7953,K7954,K7955,K7956,K7957,K7958,K7959,K7960, BT8801/S, BT8802/S,N8001,N8002,PJS02,PJS03,PJS06, PJS07, PJS08,PJS09, PJS10
Brand name	: Paibon, Ainicia
Condition of sample(s)	: EFFECTIVE

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2 Test Results

2.1 General Information

2.1.1 Sample Receiving Date

Jan. 07, 2019

2.1.2 Testing Period

Jan. 07, 2019 to Feb. 27, 2019

2.1.3 Test Requested

Please refer to next page(s).

2.1.4 Test Method

Please refer to next page(s).

2.1.5 Test Results

Please refer to next page(s).

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2.2 Results

2.2.1 Test results of all parts by EDXRF and chemical confirmation

Based on the performed tests on submitted samples, the results of Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Test Method:
1. X-Ray Fluorescence Spectrometry method in reference to IEC 62321-3-1:2013.
2. Chemical test method

Test Item(s)	Sample preparation	Test Method	Test Instrument
Lead (Pb)	With reference to IEC 62321-2:2013	With reference to IEC 62321-5:2013	ICP-AES
Cadmium (Cd)		With reference to IEC 62321-5:2013	ICP-AES
Mercury (Hg)		With reference to IEC 62321-4:2013+A1:2017	ICP-AES
Chromium Ⅵ (Cr Ⅵ)		With reference to IEC 62321-7-1:2015 IEC 62321-7-2:2017	UV-Vis
PBBs		With reference to IEC 62321-6:2015	GC-MS
PBDEs			

No.	Sample Description	Results					Chemical Confirmation Result (Unit=mg/kg)
		Pb	Cd	Hg	Cr	Br	
1	Plastic parts	P	P	P	P	P	/
2	Silvery metal screw of metal parts	P	P	P	P	/	/
3	Silvery metal spring of metal parts	P	P	P	X	/	CrVI=N.D.
4	Window film	P	P	P	P	P	/
5	Green fibreboard of PCB	P	P	P	P	X	PBBs, PBDEs=N.D.
6	Chip IC of PCB	P	P	P	P	X	PBBs, PBDEs=N.D.
7	LCD display	P	P	P	P	P	/
8	Sensor	P	P	P	P	/	/

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No.	Sample Description	Results					Chemical Confirmation Result (Unit=mg/kg)
		Pb	Cd	Hg	Cr	Br	
9	Black plastic button of Lockless switch	P	P	P	P	P	/
10	Wires	P	P	P	P	P	/
11	Soft plastic (foot pad)	P	P	P	P	P	/
12	Plastic backlit	P	P	P	P	P	/
13	Printing glass	P	P	P	P	P	/
14	Stainless steel platform	P	P	P	X	/	CrVI=N.D.
15	Bamboo platform	P	P	P	P	P	/
16	Solder tin	P	P	P	P	/	/
17	Pink plastic	P	P	P	P	P	/
18	Purple plastic	P	P	P	P	P	/
19	Red plastic	P	P	P	P	P	/

Note : P = Below Limit (Pass)
F = Over Limit (Fail)
X = Inconclusive
N.D. = not detected (less than MDL)

Remarks:
(1) Results are obtained by EDXRF for primary screening, and further chemical testing is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Polymer Materials	Metallic Materials	Electronic Materials
Pb	P ⩽ 500 < X < 1300 ⩽ F	P ⩽ 500 < X < 1300 ⩽ F	P ⩽ 500 < X < 1300 ⩽ F
Cd	P ⩽ 50 < X < 130 ⩽ F	P ⩽ 50 < X < 130 ⩽ F	X < 130 ⩽ F
Hg	P ⩽ 500 < X < 1300 ⩽ F	P ⩽ 500 < X < 1300 ⩽ F	P ⩽ 500 < X < 1300 ⩽ F
Cr	P ⩽ 700 < X	P ⩽ 700 < X	P ⩽ 500 < X
Br	P ⩽ 250 < X	/	P ⩽ 250 < X

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(2) Chemical Confirmation Result acceptable Limit and Method Detect Limit:

Test items	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium Ⅵ (CrⅥ) by alkaline extraction	Chromium Ⅵ (CrⅥ) by boiling water extraction#	PBBs	PBDEs
Unit	mg/kg	mg/kg	mg/kg	mg/kg	μg/cm^2	mg/kg	mg/kg
Method Detection Limit	2	2	2	2	0.10	5	5
Acceptable Limit	1000	100	1000	1000	---	1000	1000

Note : 1. #=a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 μg/cm^2. The sample coating is considered to contain CrVI.
b. The sample is negative for CrVI if CrVI is N.D. (concentration less than 0.10 μg/cm^2). The coating is considered a non-CrVI based coating.
c. The result between 0.10 μg/cm^2 and 0.13 μg/cm^2 is considered to be inconclusive unavoidable coating variations may influence the determination.
2. Cr(VI) results represent status of the sample at the time of testing.

(3) The tested part of the sample was specified by client.

2.2.2 Phthalates

Based on the performed tests on submitted samples, the results of phthalates comply with the limits as set by RoHS Directive 2011/65/EU Annex II and its amendment 2015/863/EU.

Test Method: Determination of phthalates by GC-MS based on IEC62321-8:2017.

Sample Description	**No.1**	Plastic parts				
	No.4	Window film				
	No.5	Green fibreboard of PCB				
Substance Name	**Limit**	**Unit**	**MDL**	**Result**		
				No.1	No.4	No.5
Dibutyl phthalate (DBP)	0.1	%	0.005	N.D.	N.D.	N.D.
Benzyl butyl phthalate (BBP)	0.1	%	0.005	N.D.	N.D.	N.D.
Bis (2-ethyl(hexyl)phthalate) (DEHP)	0.1	%	0.005	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	0.1	%	0.005	N.D.	N.D.	N.D.

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Sample Description	No.9	Black plastic button of Lockless switch				
	No.10	Wires				
	No.11	Soft plastic (foot pad)				
Substance Name	**Limit**	**Unit**	**MDL**	**Result**		
				No.9	No.10	No.11
Dibutyl phthalate (DBP)	0.1	%	0.005	N.D.	N.D.	N.D.
Benzyl butyl phthalate (BBP)	0.1	%	0.005	N.D.	N.D.	N.D.
Bis (2-ethyl(hexyl)phthalate) (DEHP)	0.1	%	0.005	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	0.1	%	0.005	N.D.	N.D.	N.D.

Sample Description	No.13	Printing glass			
	No.15	Bamboo platform			
Substance Name	**Limit**	**Unit**	**MDL**	**Result**	
				No.13	No.15
Dibutyl phthalate (DBP)	0.1	%	0.005	N.D.	N.D.
Benzyl butyl phthalate (BBP)	0.1	%	0.005	N.D.	N.D.
Bis (2-ethyl(hexyl)phthalate) (DEHP)	0.1	%	0.005	N.D.	N.D.
Diisobutyl phthalate (DIBP)	0.1	%	0.005	N.D.	N.D.

Sample Description	No.17	Pink plastic				
	No.18	Purple plastic				
	No.19	Red plastic				
Substance Name	**Limit**	**Unit**	**MDL**	**Result**		
				No.17	No.18	No.19
Dibutyl phthalate (DBP)	0.1	%	0.005	N.D.	N.D.	N.D.
Benzyl butyl phthalate (BBP)	0.1	%	0.005	N.D.	N.D.	N.D.
Bis (2-ethyl(hexyl)phthalate) (DEHP)	0.1	%	0.005	0.032	N.D.	N.D.
Diisobutyl phthalate (DIBP)	0.1	%	0.005	N.D.	N.D.	N.D.

Note : 1. N.D. = not detected (less than MDL)

2. MDL= Method Detect Limit

3. The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II and its amendment 2015/863/EU.

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Written by: Amanda Inspected by: Annie Approved by: Ben

End of Report

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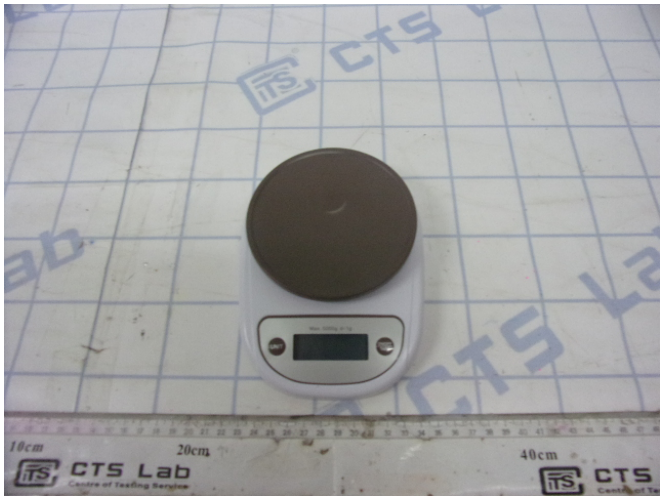
3 Sample Reference Photo



Test sample

Test sample

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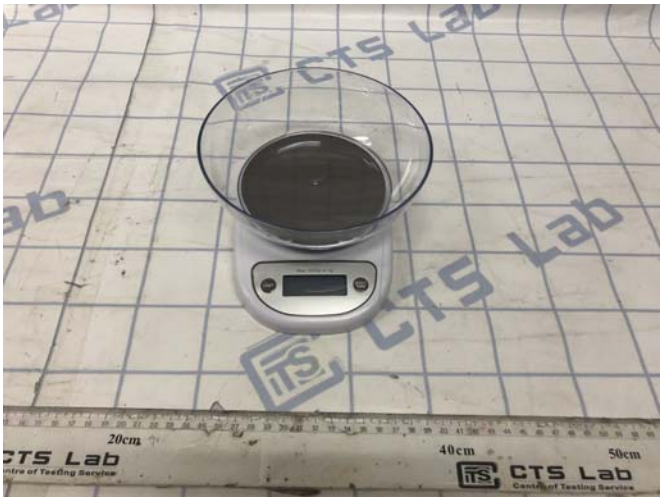

Test sample
K7810

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BT8801S

K7912 white.

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K7935

PJS07

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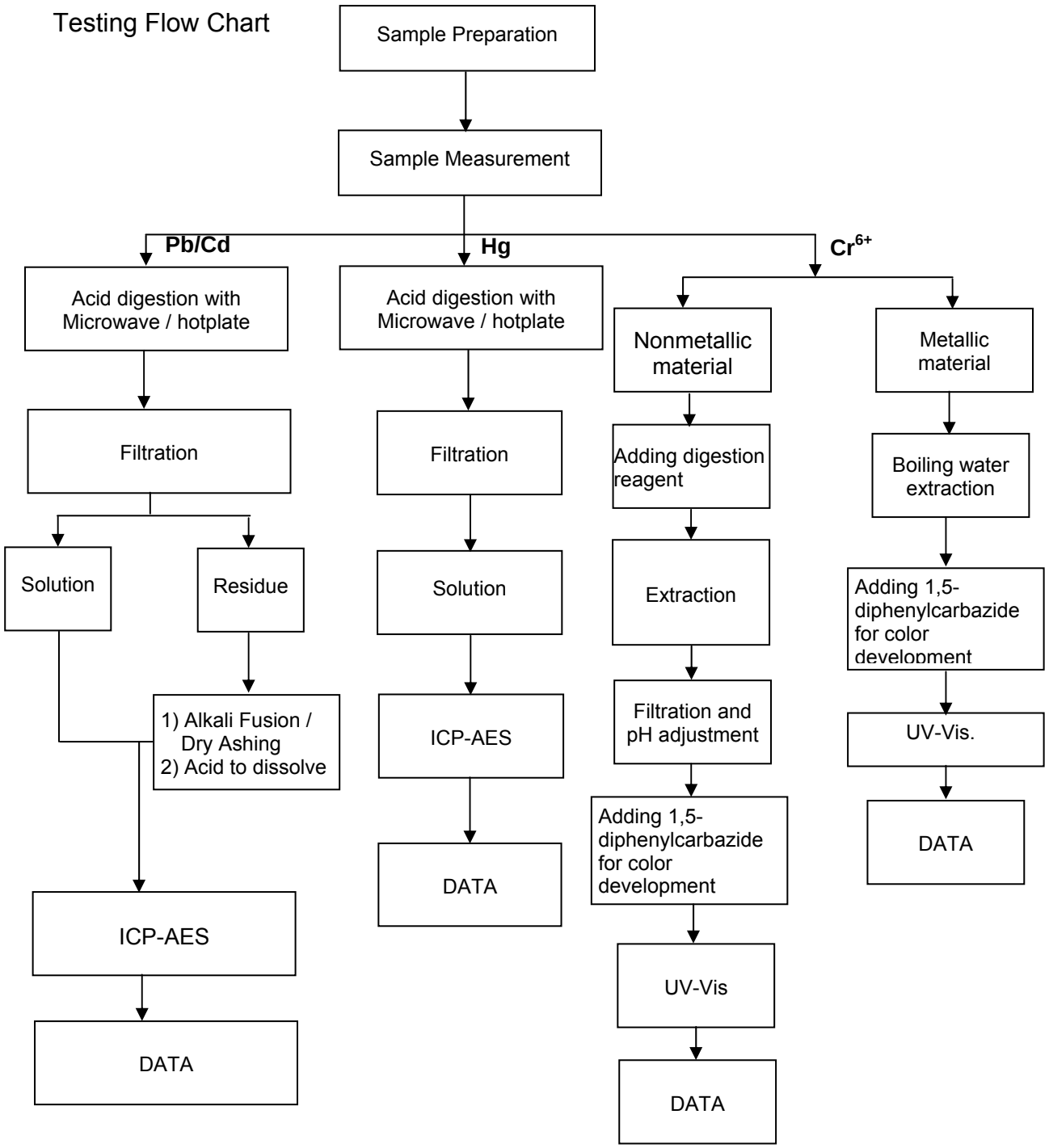
4 Attachment

Testing Flow Chart



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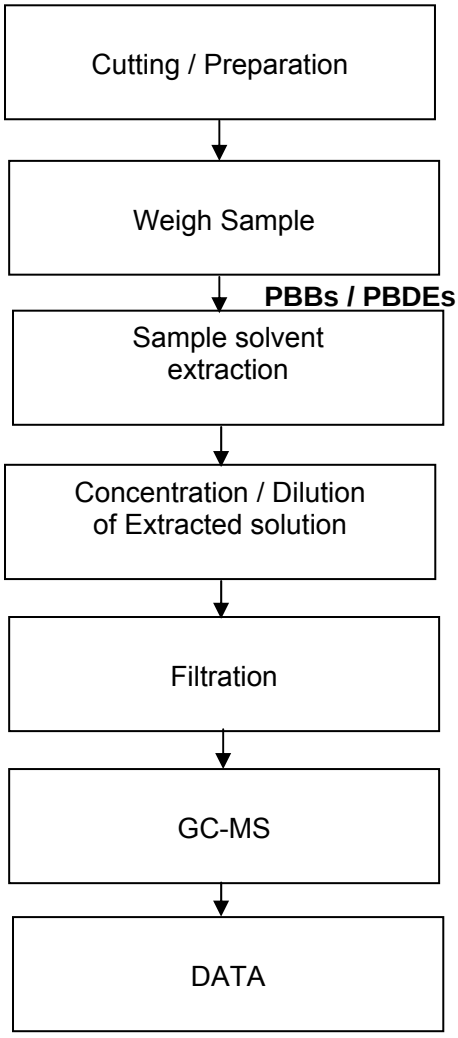
Testing Flow Chart



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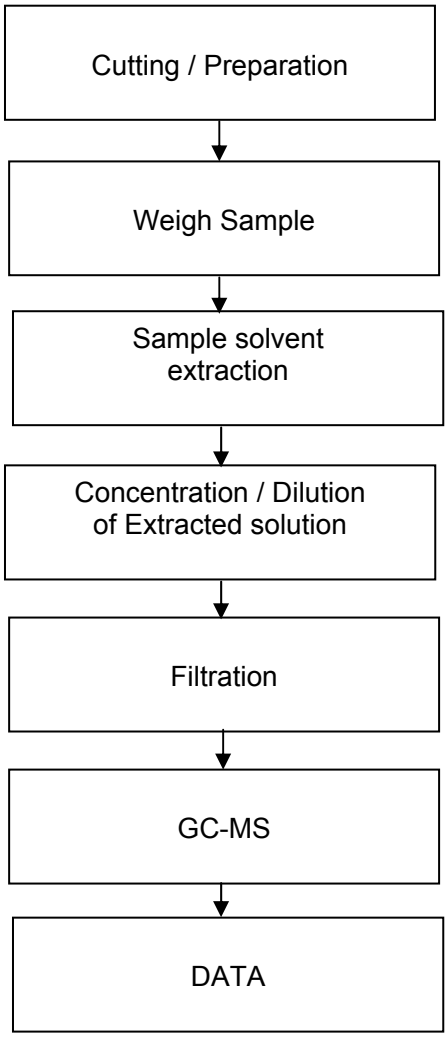
Phthalates Testing Flow Chart



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