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检测
TESTING
CNAS L11210

TEST REPORT

Report No.	:	WTN25N10268034C
Applicant	:	Zhejiang Chint IoT Technology Co.,Ltd.
Address	:	No. 1 Liangce Road, Yueqing City, Wenzhou, Zhejiang Province, P.R.China.
Manufacturer	:	Zhejiang Chint IoT Technology Co.,Ltd.
Address	:	No. 1 Liangce Road, Yueqing City, Wenzhou, Zhejiang Province, P.R.China.
Sample Name	:	Multi-functional digital panel meters
Sample Model	:	PD600
Reference Sample Model	:	Refer to following pages
Test Requested	:	As applicant's requirement, in accordance with the RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863, to determine the Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent chromium [Cr (VI)], polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs), dibutyl phthalate (DBP), butyl benzyl phthalate (BBP), di (2-ethylhexyl) phthalate (DEHP), diisobutyl phthalate (DIBP) content in the submitted sample
Test Conclusion	:	**PASS** (Please refer to following pages for details)
Date of Receipt sample	:	2025/10/13
Testing period	:	2025/10/13~2025/10/20
Date of Issue	:	2025/11/19
Test Result	:	Refer to following pages

Prepared By:
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Signed for and on behalf of
Waltek Testing Group (Ningbo) Co., Ltd.

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Reference Sample Model：
PD666, PD7777, PD700C, PD300, PD600-□□□□□, PD666-□□□□□, PD7777-□□□□□, PD700C-□□□□□, PD300-□□□□□
(The first □ can be 1,2,3,4,6,8 or blank; the second □ can be D,S,H or blank; the third □ can be P,K,B,T or blank; the forth □ can be 4, 3 or blank; the fifth □ can be H, EL or blank)

Test Results:
1.Lead, Mercury, Cadmium, Hexavalent Chromium, PBBs and PBDEs:
Test Method:
(1) With reference to IEC 62321-3-1:2013, screening - Lead, Mercury, Cadmium, total Chromium and total Bromine by X-ray fluorescence spectrometry;
(2) With reference to IEC 62321-4:2013+AMD1:2017 CSV, determination of Mercury by ICP-OES;
(3) With reference to IEC 62321-5:2013, determination of Lead and Cadmium by ICP-OES;
(4) With reference to IEC 62321-7-2:2017 and IEC 62321-7-1:2015, determination of Hexavalent Chromium by UV-VIS;
(5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

Unit: mg/kg

Part No.	Part description	Result of EDX					Result of Wet Chemical Testing	Conclusion
		Cd	Pb	Hg	Cr	Br		
1	Grey plastic shell	BL	BL	BL	BL	BL	---	**PASS**
2	Black plastic board	BL	BL	BL	BL	BL	---	**PASS**
3	Grey plastic button	BL	BL	BL	BL	BL	---	**PASS**
4	Black plastic sleeve	BL	BL	BL	BL	BL	---	**PASS**
5	Transparent plastic buckle	BL	BL	BL	BL	BL	---	**PASS**
6	Green plastic terminal	BL	BL	BL	BL	BL	---	**PASS**
7	Silvery metal frame	BL	BL	BL	IN	N/A	Cr (VI): Negative	**PASS**
8	Silvery metal frame	BL	BL	BL	BL	N/A	---	**PASS**
9	Silvery metal screw	BL	BL	BL	IN	N/A	Cr (VI): Negative	**PASS**
10	Black electronic component	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND	**PASS**
11	Black plastic interface	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND	**PASS**
12	Black patch resistor	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND	**PASS**
13	Yellow capacitor	BL	BL	BL	BL	BL	---	**PASS**

Part No.	Part description	Result of EDX					Result of Wet Chemical Testing	Conclusion
		Cd	Pb	Hg	Cr	Br		
14	Silvery electronic component	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND	**PASS**
15	Black Integrated Circuit	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND	**PASS**
16	Silvery electronic component	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND	**PASS**
17	Green PCB	BL	BL	BL	BL	BL	---	**PASS**
18	Silvery metal solder	BL	BL	BL	BL	N/A	---	**PASS**
19	Transparent glass plate	BL	BL	BL	BL	BL	---	**PASS**
20	White plastic board	BL	BL	BL	BL	BL	---	**PASS**
21	Silvery metal sheet	BL	BL	BL	BL	N/A	---	**PASS**
22	Black plastic button	BL	BL	BL	BL	BL	---	**PASS**
23	Silvery metal sheet	BL	BL	BL	IN	N/A	Cr (VI): Negative	**PASS**
24	Black plastic shell	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND	**PASS**
25	Green PCB	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND	**PASS**
26	Silvery metal solder	BL	BL	BL	BL	N/A	---	**PASS**
27	Black electronic component	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND	**PASS**
28	Yellow electronic component	BL	BL	BL	BL	BL	---	**PASS**
29	Green PCB	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND	**PASS**
30	Silvery metal solder	BL	BL	BL	BL	N/A	---	**PASS**
31	Black diode	BL	IN	BL	BL	BL	Pb: $3.76x10^{4}$ #1	**PASS**
32	Blue electronic component	BL	IN	BL	BL	BL	Pb: $1.74x10^{3}$ #1	**PASS**
33	White capacitor	BL	IN	BL	BL	BL	Pb: $1.22x10^{4}$ #2	**PASS**
34	Silvery metal pin	BL	BL	BL	BL	N/A	---	**PASS**

Part No.	Part description	Result of EDX					Result of Wet Chemical Testing	Conclusion
		Cd	Pb	Hg	Cr	Br		
35	Black plastic frame	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND	**PASS**
36	Green plastic interface	BL	BL	BL	BL	BL	---	**PASS**
37	Silvery metal pin	BL	BL	BL	BL	N/A	---	**PASS**
38	Green electronic component	BL	BL	BL	IN	BL	Cr (VI): ND	**PASS**
39	Yellow electronic component	BL	BL	BL	BL	BL	---	**PASS**
40	Black electronic component	BL	IN	BL	BL	IN	Pb: 288 PBBs: ND PBDEs: ND	**PASS**
41	Black electronic component	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND	**PASS**
42	Silvery electronic component	BL	BL	BL	BL	BL	---	**PASS**
43	Black electronic component	BL	BL	BL	BL	BL	---	**PASS**
44	Yellow plastic adhesive tape	BL	BL	BL	BL	BL	---	**PASS**
45	Transparent plastic sleeve	BL	BL	BL	BL	BL	---	**PASS**
46	Black plastic cover	BL	BL	BL	BL	BL	---	**PASS**
47	Silvery metal shell	BL	BL	BL	BL	N/A	---	**PASS**
48	Black plastic base	BL	BL	BL	BL	BL	---	**PASS**
49	Silvery metal sheet	BL	BL	BL	BL	N/A	---	**PASS**
50	Yellow plastic sheet	BL	BL	BL	BL	BL	---	**PASS**
51	Grey plastic sheet	BL	BL	BL	BL	BL	---	**PASS**
52	Grey plastic sheet	BL	BL	BL	BL	BL	---	**PASS**

2.Phthalates:

Test Method:

With reference to IEC 62321-8:2017, determination of Phthalates content by GC-MS.

Unit: mg/kg

Serial No.	Part No.	Results				Conclusion
		DBP	BBP	DEHP	DIBP	
T01	1+2+3+5+6△	ND	ND	ND	ND	**PASS**
T02	4+44+45△	ND	ND	ND	ND	**PASS**
T03	10+12+13+14+15△	ND	ND	ND	ND	**PASS**
T04	11+20+22+24+35△	ND	ND	ND	ND	**PASS**
T05	16+17+19+25+27△	ND	ND	ND	ND	**PASS**
T06	28+29+31+32+33△	ND	ND	ND	ND	**PASS**
T07	36+48+51+52△	ND	ND	ND	ND	**PASS**
T08	38+39+40+41+42△	ND	ND	ND	ND	**PASS**
T09	43	ND	ND	ND	ND	**PASS**
T10	46+50△	ND	ND	ND	ND	**PASS**

Notes:

(1) EDX test:

(a) For the restricted substances PBBs/PBDEs, the EDX results show the total Br content; for the restricted substance Cr (VI), the EDX results show the total Cr content;

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

Unit: mg/kg

Elements	Polymers	Metals	Composite material
Pb	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(500-3σ)<X<(1500+3σ)≤OL
Cd	BL≤(70-3σ)<X<(130+3σ)≤OL	BL≤(70-3σ)<X<(130+3σ) ≤OL	LOD<X<(150+3σ) ≤OL
Hg	BL≤(700-3σ)<X<(1300+3σ) ≤OL	BL≤(700-3σ)<X<(1300+3σ) ≤OL	BL≤(500-3σ)<X<(1500+3σ)≤OL
Cr	BL≤(700-3σ)<X	BL≤(700-3σ)<X	BL≤(500-3σ)<X
Br	BL≤(300-3σ)<X	---	BL≤(250-3σ)<X

(c) BL=Below Limit by EDX analysis, OL=Over Limit by EDX analysis, IN=Inconclusive, LOD = The limit of detection, "---" = Not regulated, X=need further chemical analysis;

(d) For composite material, the EDX results may be different to the actual content in the sample.

(2) Chemical test and Regulatory limits:

Test Items		CAS No.	MDL	Limit (by weight in homogeneous materials)
Pb		---	2 mg/kg	1000 mg/kg
Cd		---	2 mg/kg	100 mg/kg
Hg		---	2 mg/kg	1000 mg/kg
Cr (VI)	Metal	---	0.10 μg/cm^2	1000 mg/kg
	Others	---	8 mg/kg	
PBBs		---	5 mg/kg (Each)	1000 mg/kg (Sum)
PBDEs		---	5 mg/kg (Each)	1000 mg/kg (Sum)
Dibutyl phthalate (DBP)		(84-74-2)	50 mg/kg	1000 mg/kg
Benzyl butyl phthalate (BBP)		(85-68-7)	50 mg/kg	1000 mg/kg
Di(2-ethylhexyl) phthalate (DEHP)		(117-81-7)	50 mg/kg	1000 mg/kg
Di-iso-butyl phthalate (DIBP)		(84-69-5)	50 mg/kg	1000 mg/kg

(3) "#1" = According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(c)-I is reiterated here "Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e. g. piezoelectronic devices, or in a glass or ceramic matrix compound.". Test Item(s) was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.

"#2" = According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(C)-II is reiterated here "Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher.". Test Item(s) was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.

(4) According to IEC 62321-7-1:2015, determined of Cr (VI) on metal sample by boiling water extraction test method, and result is shown as Positive/Negative.

Boiling water extraction:

Negative = Absence of Cr (VI) coating, the detected concentration in boiling water extraction solution is less than 0.10ug/cm^2.

Positive = Presence of Cr (VI) coating, the detected concentration in boiling water extraction solution is greater than 0.13ug/cm^2.

When the concentration of Cr (VI) is between 0.10ug /cm^2 and 0.13ug /cm^2, it is not possible to directly determine whether Cr (VI) is detected.

Because different individuals may influence the determination results of the surface of the sample differences.

(5) ND = Not Detected;

(6) mg/kg = milligram per kilogram = ppm (parts per million);

(7) μg/cm^2 = microgram per square centimetre;

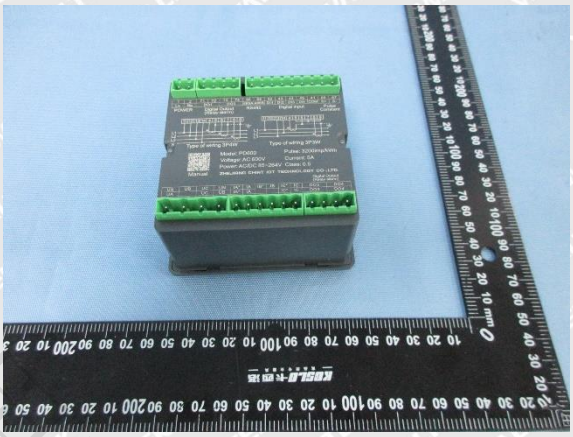
(8) MDL = Method Detection Limit;

(9) "---" = Not regulated;

(10) N/A = Not Applicable;

(11) △= As client's requirement, the testing was conducted based on mixed components. Results are calculated by the minimum weight of mixed components.

Sample Photo(s):



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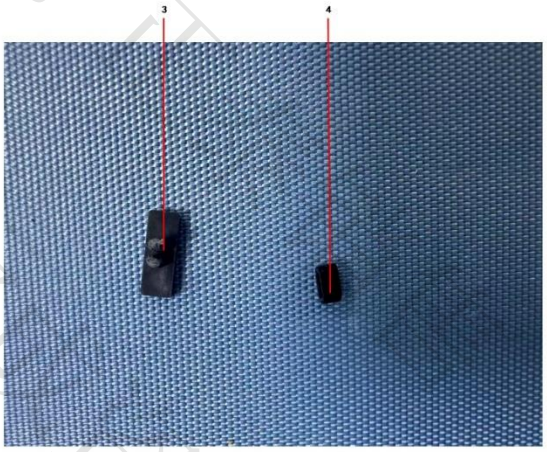

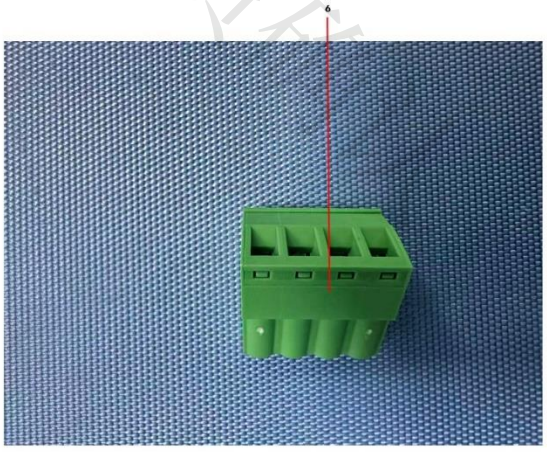

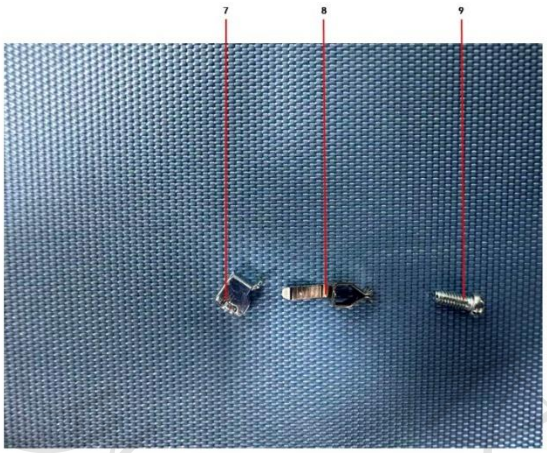
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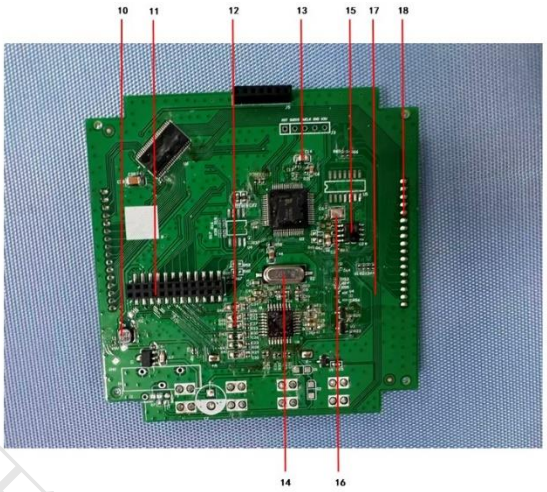
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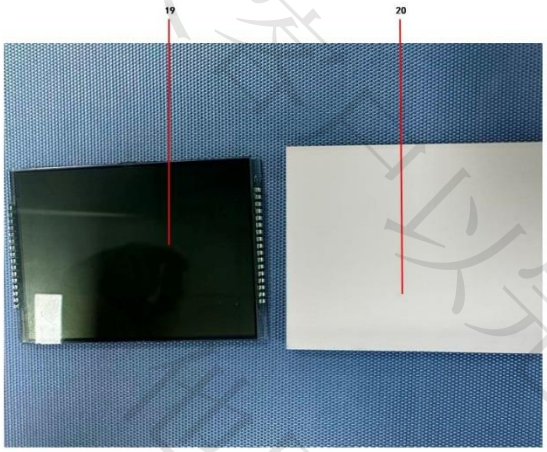
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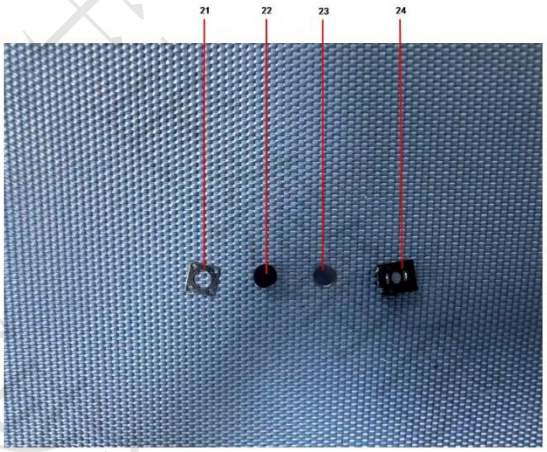
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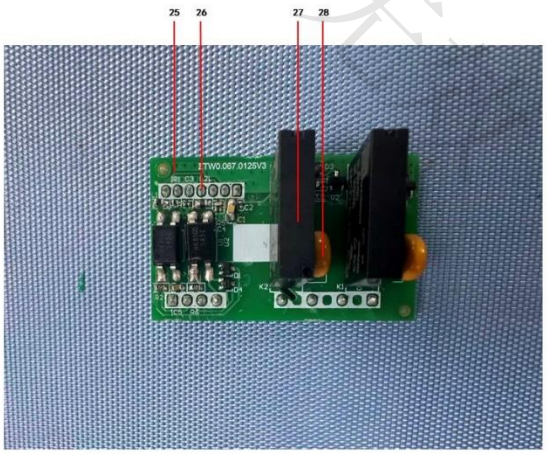
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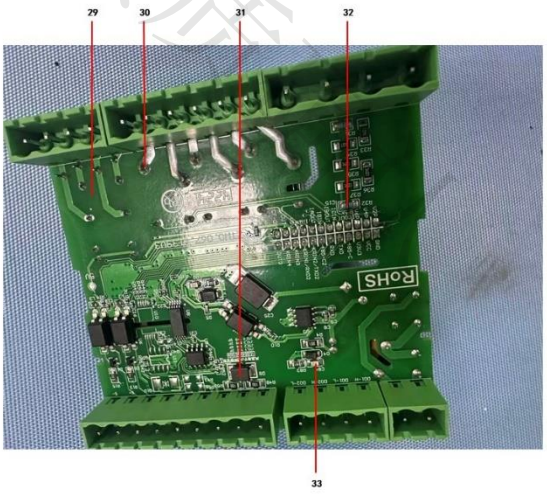
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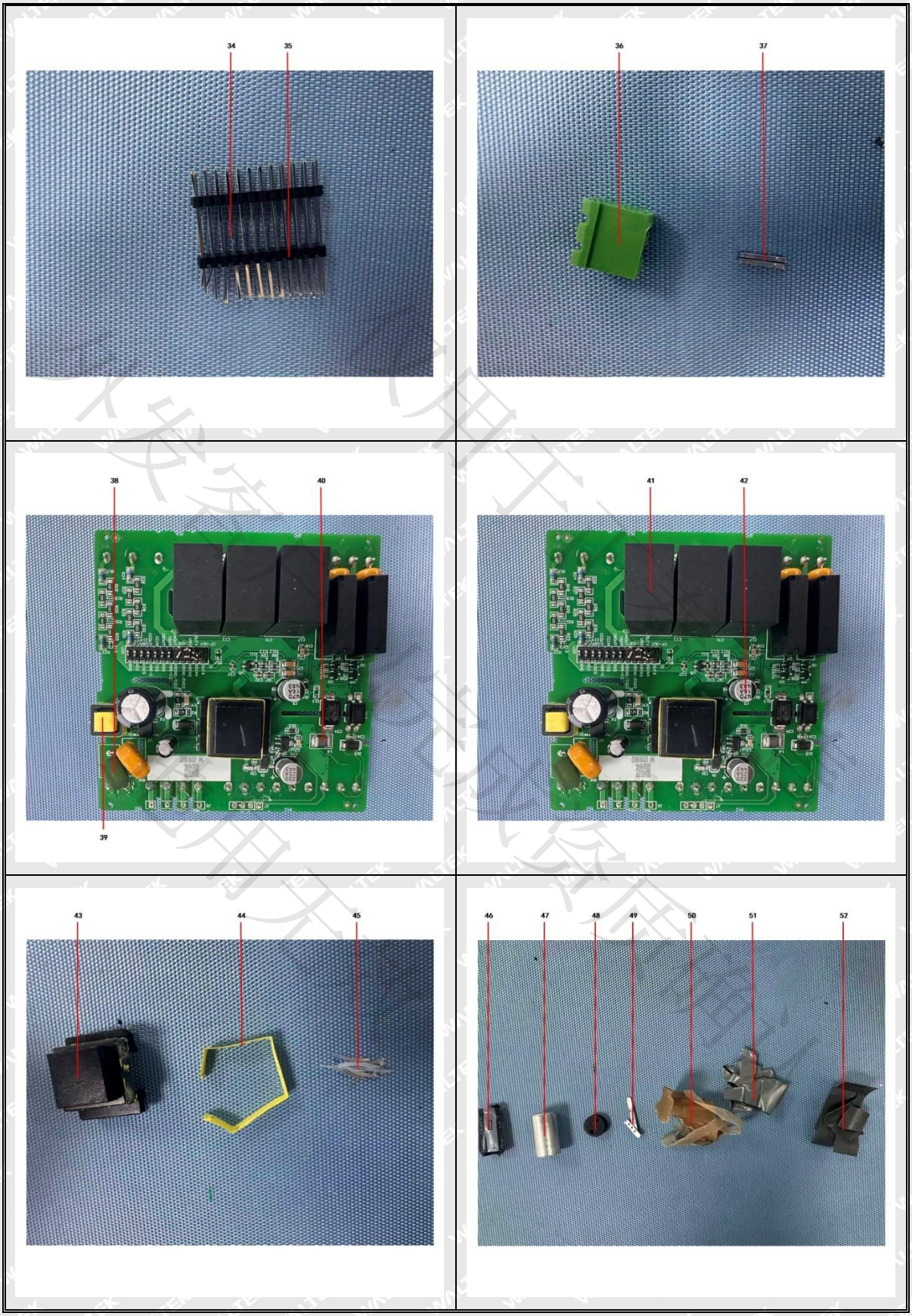
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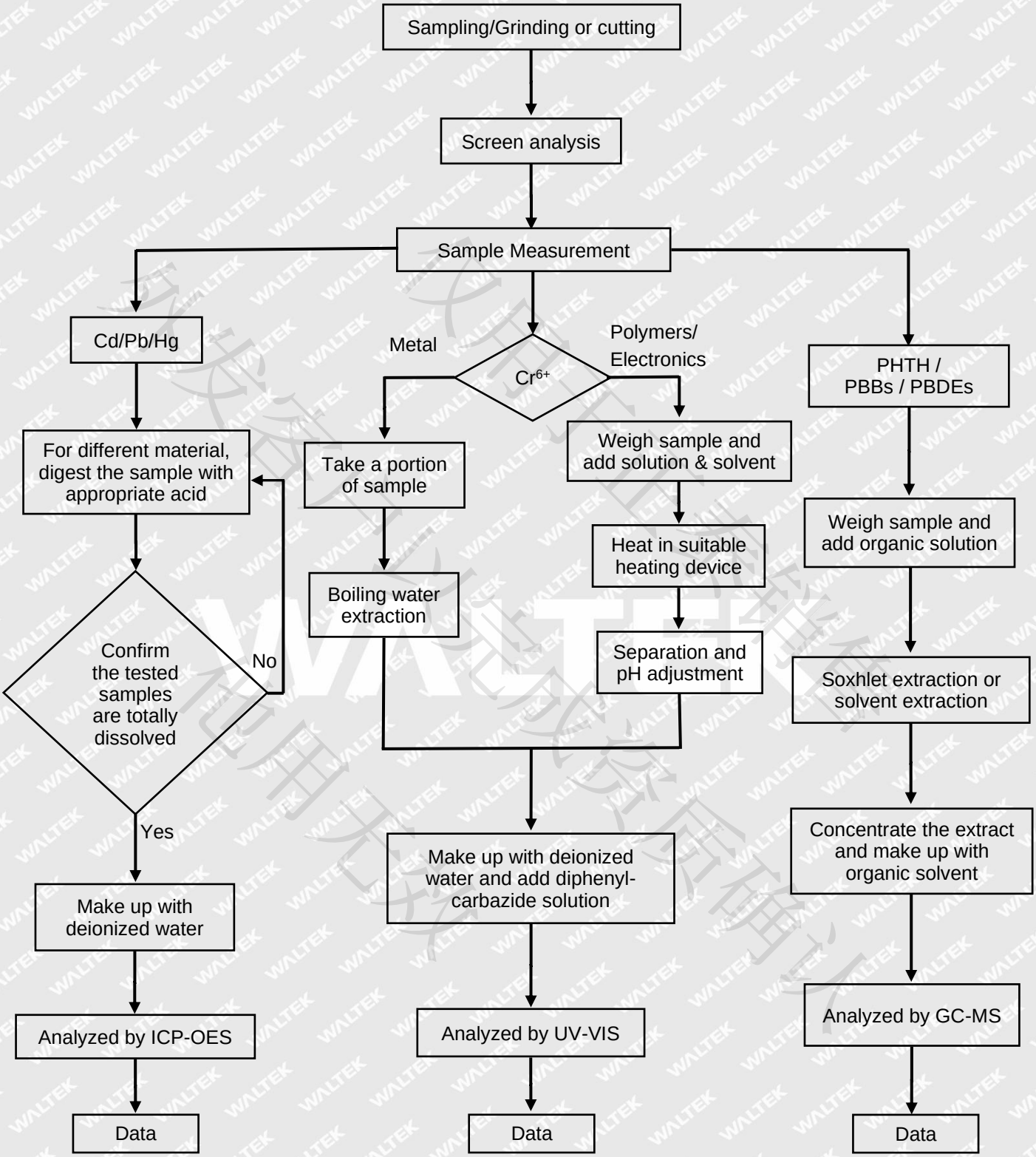
Test Flow Chart:



Remarks:

1. The results shown in this test report refer only to the sample(s) tested;
2. This test report cannot be reproduced, except in full, without prior written permission of the company;
3. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver;
4. 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 Waltek hasn't verified; The reference model samples have not been tested;
5. The test components in this report are designated by the client.

======End of Report ======