



中国认可
国际互认
检测
TESTING
CNAS L4136



WTF25H04085502C



TEST REPORT

Report No : WTF25H04085502C

Applicant : Ar Leader Printed Circuit Boards (Zhu Hai) Ltd.

Address : Office: Leader Printed Circuit Boards Ltd.
Address: Flat 2, 3/F Sun Cheong Ind Bldg ,2-4 Cheung Yee
St ,Cheung Sha Wan Kowloon HK
Factory: Ar Leader Printed Circuit Boards (Zhu Hai) Ltd.
Address: 1 Zhuo Yue Road, San Zao Town, Jin Wan 519040
Zhu Hai City, Guangdong Province, CHINA

Sample Name : LEAD-FREE HOT AIR LEVELLING PCB

Test Requested : Determine the Pb, Cd, Hg, Cr(VI), PBBs, PBDEs, DBP, BBP,
DEHP, DIBP content in the sample with reference to EU RoHS
Directive 2011/65/EU and its amendment Directive EU
2015/863.

Test Conclusion : PASS

Date of Receipt sample : 2025-04-08

Testing period : 2025-04-08 ~ 2025-04-11

Date of Issue : 2025-04-11

Test Result : Refer to next page (s)

Prepared By:

Waltek Testing Group HCT (Shenzhen) Co., Ltd.

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Street, Longgang District,Shenzhen,Guangdong,China
Tel:+86-755-84616666/400-0066-989 E-mail:service@hct-test.com

Signed for and on behalf of
Waltek Testing Group HCT (Shenzhen) Co., Ltd.


Michael Huang
Waltek Testing Group HCT (Shenzhen) Co., Ltd.
<http://www.hct-test.com>

Test Result(s):

Test Method/Equipment: IEC 62321-5:2013, IEC 62321-4:2013+AMD1:2017, IEC 62321-7-2:2017, IEC 62321-12:2023; ICP-OES, UV-VIS, GC-MS

| Test Item(s) | Unit | MDL | Result(s) | Limit |
|---------------------------------------|-------|-----|-----------|-------|
| Lead(Pb) | mg/kg | 2 | ND | 1000 |
| Cadmium(Cd) | mg/kg | 2 | ND | 100 |
| Mercury(Hg) | mg/kg | 2 | ND | 1000 |
| Hexavalent Chromium(Cr(VI)) | mg/kg | 8 | ND | 1000 |
| Mono-bromobiphenyl | mg/kg | 25 | ND | — |
| Di-bromobiphenyl | mg/kg | 25 | ND | — |
| Tri-bromobiphenyl | mg/kg | 25 | ND | — |
| Tetra-bromobiphenyl | mg/kg | 25 | ND | — |
| Penta-bromobiphenyl | mg/kg | 25 | ND | — |
| Hexa-bromobiphenyl | mg/kg | 25 | ND | — |
| Hepta-bromobiphenyl | mg/kg | 25 | ND | — |
| Octa-bromobiphenyl | mg/kg | 25 | ND | — |
| Nona-bromobiphenyl | mg/kg | 25 | ND | — |
| Deca-bromobiphenyl | mg/kg | 25 | ND | — |
| Polybrominated Biphenyls(PBBs) | mg/kg | — | ND | 1000 |
| Mono-bromodiphenyl ether | mg/kg | 25 | ND | — |
| Di-bromodiphenyl ether | mg/kg | 25 | ND | — |
| Tri-bromodiphenyl ether | mg/kg | 25 | ND | — |
| Tetra-bromodiphenyl ether | mg/kg | 25 | ND | — |
| Penta-bromodiphenyl ether | mg/kg | 25 | ND | — |
| Hexa-bromodiphenyl ether | mg/kg | 25 | ND | — |
| Hepta-bromodiphenyl ether | mg/kg | 25 | ND | — |
| Octa-bromodiphenyl ether | mg/kg | 25 | ND | — |
| Nona-bromodiphenyl ether | mg/kg | 25 | ND | — |
| Deca-bromodiphenyl ether | mg/kg | 25 | ND | — |
| Polybrominated Diphenyl Ethers(PBDEs) | mg/kg | — | ND | 1000 |
| Dibutyl phthalate(DBP) | mg/kg | 25 | ND | 1000 |
| Butylbenzyl phthalate(BBP) | mg/kg | 25 | ND | 1000 |
| Di-(2-ethylhexyl) Phthalate(DEHP) | mg/kg | 25 | ND | 1000 |
| Di-iso-butyl phthalate(DIBP) | mg/kg | 25 | ND | 1000 |

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Note:

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

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

ND=Not Detected

MDL=Method Detection Limit

Results shown as ND are ignored in the sum calculation.

The detected Chromium (Cr) content is "ND", therefore, the Hexavalent Chromium (Cr (VI)) content is "ND", No need for validation test of the Hexavalent Chromium (Cr (VI)). If Chromium (Cr) content exceeds Hexavalent Chromium (Cr (VI)) method detection limit, Validation test of the Hexavalent Chromium (Cr (VI)) is required.

Sample Description:

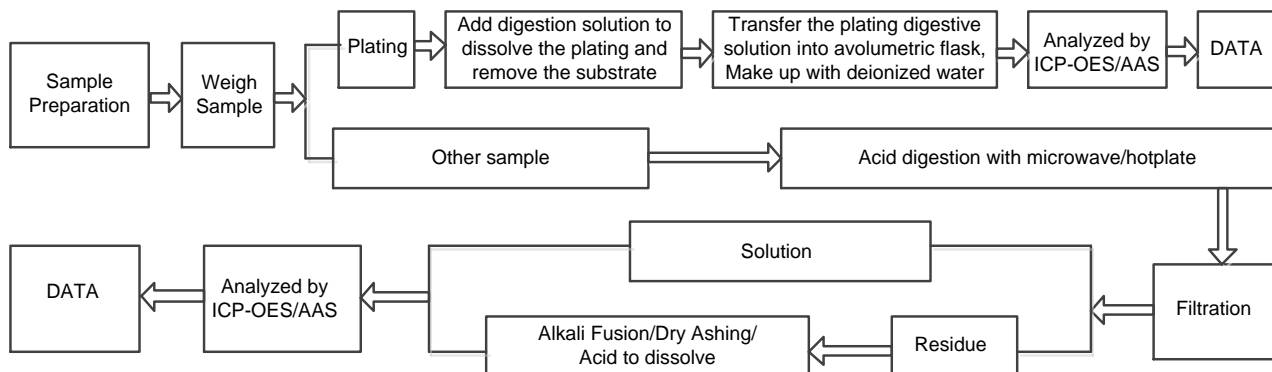
| No. | HCT Sample ID | Test Part Description | | Note |
|-----|-----------------------------|-----------------------|---|------|
| 1 | WTF25H04085502C~5505 C.1 | 1 | Beige copper-clad laminate with silver plating and green ,White coating | • |

Note:

•=Actual tested sample

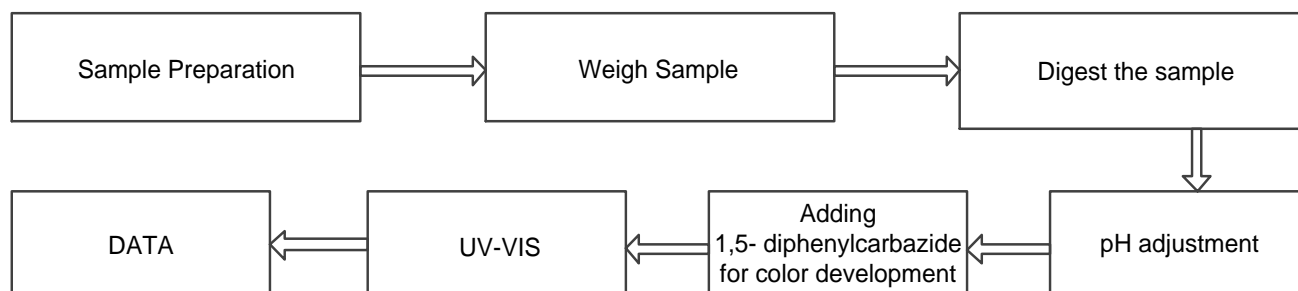
Test Flow Chart:

Lead(Pb), Cadmium(Cd), Mercury(Hg), Chromium(Cr)

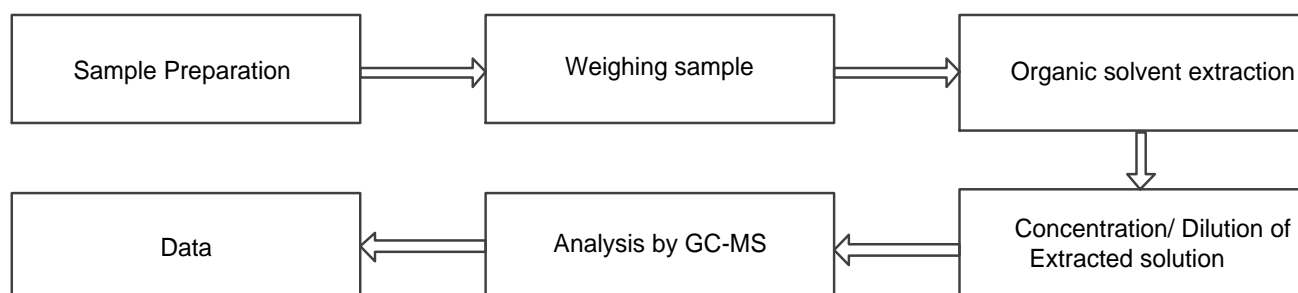


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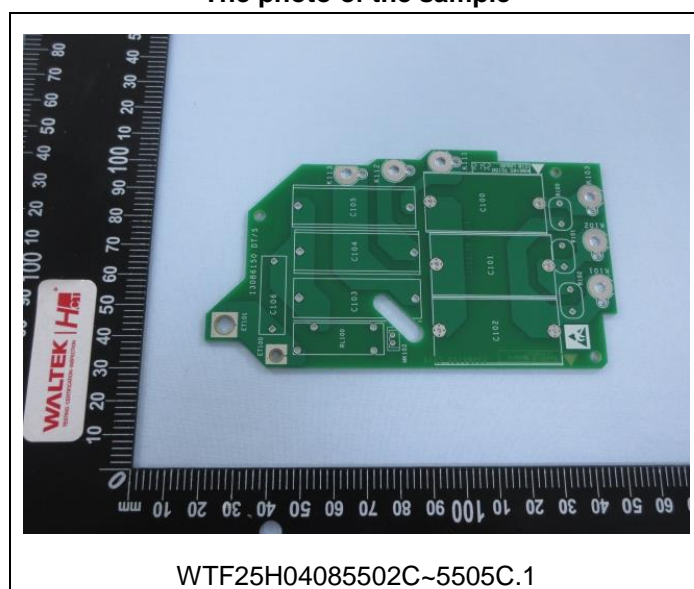
Hexavalent Chromium(Cr(VI))



Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Dibutyl phthalate(DBP), Butylbenzyl phthalate(BBP), Di-(2-ethylhexyl) Phthalate(DEHP), Di-iso-butyl phthalate(DIBP)



The photo of the sample



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Statement:

1. This report is considered invalid without approved signature and special seal.
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 HCT hasn't verified.
3. The result(s)(conclusion) shown in this report refer(s) only to the sample(s) tested.
4. Without written approval of HCT, this report can't be reproduced except in full.
5. The result(s) in no CMA logo report shall only be used for client's scientific research, teaching, internal quality control, product research and development, etc..and just for internal reference.
6. The "n" in CNAS logo report means that the test item(s) was (were) currently not applying for CNAS accreditation.
7. Decision rules used in this report:
 - (1)According to the Decision rules in the regulations/standards listed in the Test Requested;
 - (2)If there is no Decision rules specified in the regulations listed in the Test Requested, then according to CNAS-GL015 Guidelines on Decision Rules and Statements of Conformity, 6.2.1, Simple Acceptance ($w=0$) of The binary Decision rule:
PASS (Accepted) - The measured value is within the tolerance interval.
FAIL (Rejected) - The measured value is outside the tolerance interval.

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

有限公司