



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

TEST REPORT

RoHS 2011/65/EU

Test Report Number : CGZ3150520-01390-C



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

Fl.2 South Huoju Building, No.181 Canghai Rd., Jiangdong High-tech Park, Ningbo China

PHONE +86-574-87912121 FAX +86-574-87907993

TEST REPORT

REPORT No. : CGZ3150520-01390-C
DATE : May 25, 2015
PAGE : 1 of 9

Table of contents

| | | |
|----------|--|----------|
| 1 | General Information | 2 |
| 1.1 | Application Details | 2 |
| 1.2 | Manufacturer & Buyer | 2 |
| 1.3 | Description of the Test Item | 2 |
| 2 | Test results | 3 |
| 2.1 | Sample Receiving Date | 3 |
| 2.2 | Testing Period | 3 |
| 2.3 | Test Requested | 3 |
| 2.4 | Test Method | 3 |
| 2.5 | Chemical Test Method Flow Chart | 4 |
| 2.6 | Conclusion | 5 |
| 2.7 | Test Results | 6 |
| 2.7.1 | Test results of all parts by EDXRF and chemical confirmation | 6 |
| 3 | Sample Reference Photo | 9 |

The measurement results only apply to the submitted samples.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

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

Fl.2 south Huoju Building, No.181 canghai Rd., Jiangdong High-tech Park Ningbo China

Tel: +86-574-87912121 (16 lines)

Fax: +86-574-87907993

Complaint line: +86-574-87908003

E-mail: cts@cts-lab.com

See Reverse For Terms And Conditions of Service

TEST REPORT

REPORT No. : CGZ3150520-01390-C
DATE : May 25, 2015
PAGE : 2 of 9

1 General Information

1.1 Application Details

Name : Xindao B.V.
Address : P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
Contact : kevin
Telephone : /
Fax : /
Mobile telephone : /
Email : kevin.zsz@xindao.com

1.2 Manufacturer & Buyer

Manufacturer name : Xindao B.V.
Address : P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
Contact : kevin
Telephone : /
Fax : /
Mobile telephone : /
Email : kevin.zsz@xindao.com
Buyer name : /

1.3 Description of the Test Item

Sample name : Backup battery
Model No. : P324.01
Brand name : /
Order No. : PU014458
Condition of sample(s) : EFFECTIVE

TEST REPORT

REPORT No. : CGZ3150520-01390-C
DATE : May 25, 2015
PAGE : 3 of 9

2 Test results

2.1 Sample Receiving Date

May 20, 2015

2.2 Testing Period

May 20, 2015 to May 22, 2015

2.3 Test Requested

In accordance with the RoHS Directive 2011/65/EU Annex II.

2.4 Test Method

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

| Test Item(s) | Test Method | Test Instrument |
|---------------------|------------------------------------|-----------------|
| Lead (Pb) | 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 | ICP-AES |
| Chromium VI (Cr VI) | With reference to IEC 62321:2008 | UV-Vis |
| PBBs | With reference to IEC 62321:2008 | GC-MS |
| PBDEs | | |

The measurement results only apply to the submitted samples.
Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

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

FL2 south Huoju Building, No.181 canghai Rd., Jiangdong High-tech Park Ningbo China

Tel: +86-574-87912121 (16 lines)

Fax: +86-574-87907993

Complaint line: +86-574-87908003

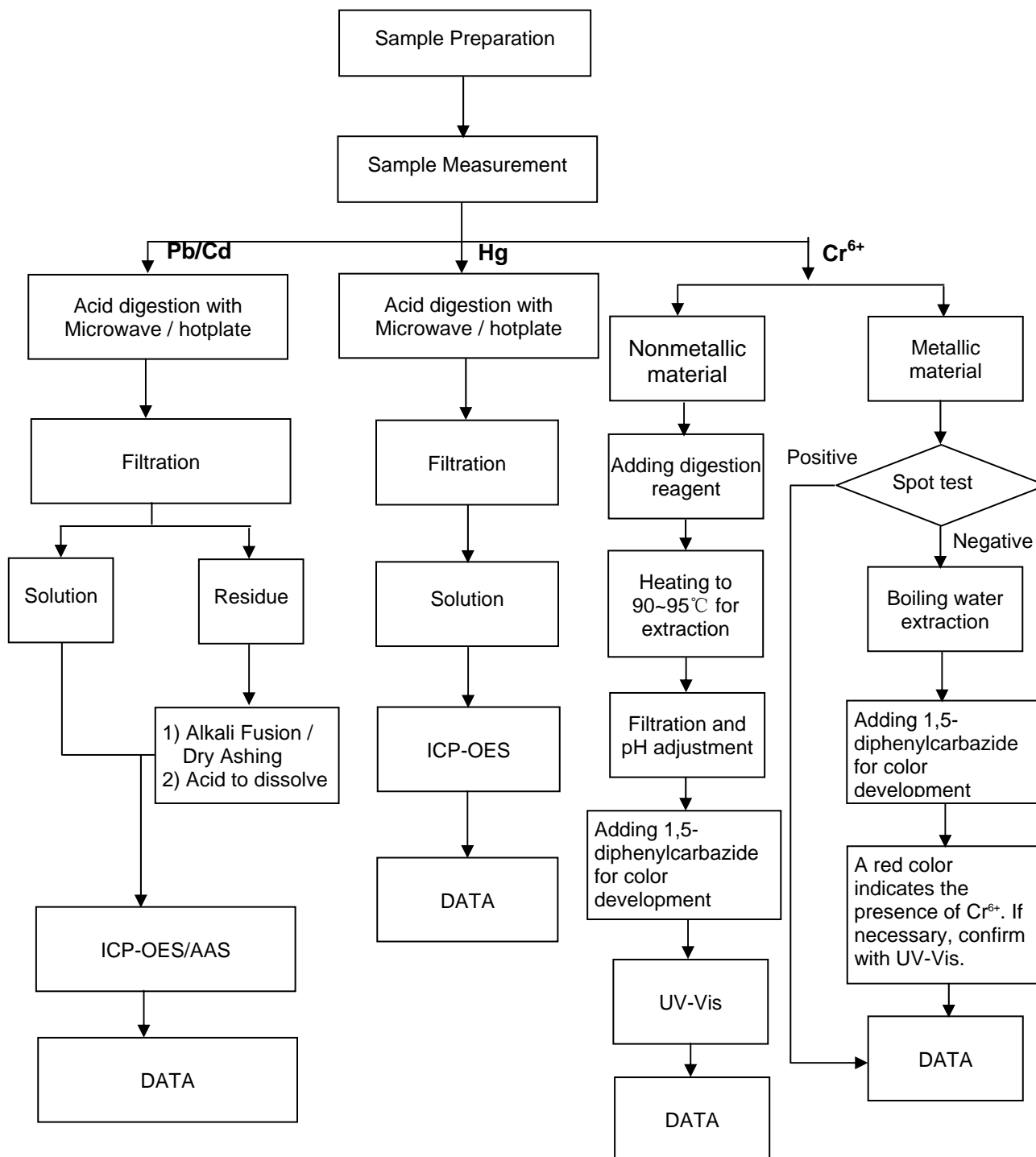
E-mail: cts@cts-lab.com

See Reverse For Terms And Conditions of Service

TEST REPORT

REPORT No. : CGZ3150520-01390-C
 DATE : May 25, 2015
 PAGE : 4 of 9

2.5 Chemical Test Method Flow Chart



The measurement results only apply to the submitted samples.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

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

FL2 south Huojia Building, No.181 canghai Rd., Jiangdong High-tech Park Ningbo China

Tel: +86-574-87912121 (16 lines)

Fax: +86-574-87907993

Complaint line: +86-574-87908003

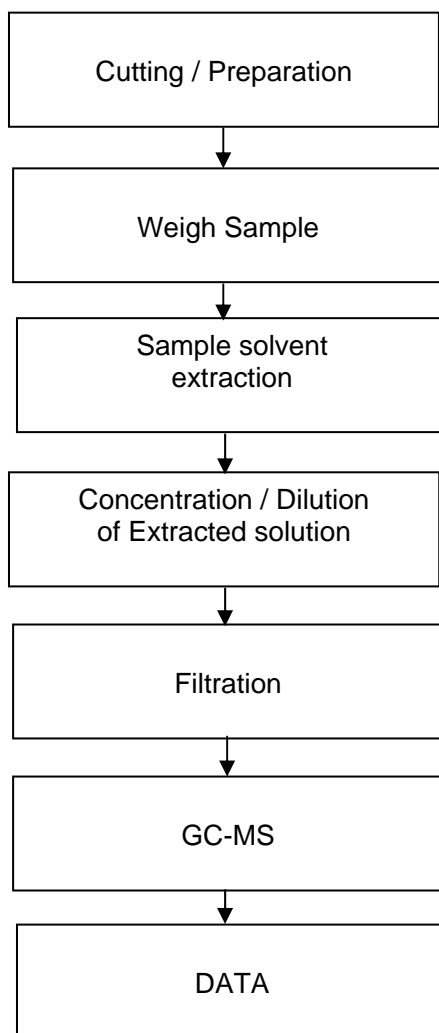
E-mail: cts@cts-lab.com

See Reverse For Terms And Conditions of Service

TEST REPORT

REPORT No. : CGZ3150520-01390-C
DATE : May 25, 2015
PAGE : 5 of 9

PBBs / PBDEs



2.6 Conclusion

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

The measurement results only apply to the submitted samples.
Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

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

Fl.2 south Huoju Building, No.181 canghai Rd., Jiangdong High-tech Park Ningbo China

Tel: +86-574-87912121 (16 lines)

Fax: +86-574-87907993

Complaint line: +86-574-87908003

E-mail: cts@cts-lab.com

See Reverse For Terms And Conditions of Service

TEST REPORT

REPORT No. : CGZ3150520-01390-C
 DATE : May 25, 2015
 PAGE : 6 of 9

2.7 Test Results

2.7.1 Test results of all parts by EDXRF and chemical confirmation

| No. | Sample Description | | Results | | | | | Chemical Confirmation Result (Unit=mg/kg) |
|-----|------------------------|--------------------|---------|----|----|----|----|--|
| | | | Pb | Cd | Hg | Cr | Br | |
| 1 | Metal cover | lime coating | P | P | P | P | P | |
| 2 | | Golden base | P | P | P | P | / | |
| 3 | Transparent plastic | | P | P | P | P | P | |
| 4 | White coating | | P | P | P | P | P | |
| 5 | Silvery metal screw | | P | P | P | P | / | |
| 6 | Silvery plastic button | | P | P | P | P | / | |
| 7 | Black plastic film | | P | P | P | P | P | |
| 8 | Black plastic frame | | P | P | P | P | P | |
| 9 | Black EVA | | P | P | P | P | P | |
| 10 | Silvery metal wafer | | P | P | P | P | P | |
| 11 | Black tape | | P | P | P | P | P | |
| 12 | Wire | Black jacket | P | P | P | P | P | |
| 13 | | Black cable jacket | P | P | P | P | P | |
| 14 | | Red cable jacket | P | P | P | P | P | |
| 15 | | Copper Wire | P | P | P | P | / | |
| 16 | PCB | Blue fiberboard | P | P | P | P | P | |
| 17 | | Copper foil | P | P | P | P | / | |
| 18 | | Solder tin | X | P | P | P | / | Pb=140 |

The measurement results only apply to the submitted samples.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

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

Fl.2 south Huojia Building, No.181 canghai Rd., Jiangdong High-tech Park Ningbo China

Tel: +86-574-87912121 (16 lines)

Fax: +86-574-87907993

Complaint line: +86-574-87908003

E-mail: cts@cts-lab.com

See Reverse For Terms And Conditions of Service

TEST REPORT

REPORT No. : CGZ3150520-01390-C
 DATE : May 25, 2015
 PAGE : 7 of 9

| No. | Sample Description | | Results | | | | | Chemical Confirmation Result (Unit=mg/kg) |
|-----|--------------------|---------------------|---------------------|----|----|----|----|---|
| | | | Pb | Cd | Hg | Cr | Br | |
| 19 | PCB | Chip resistor | X | P | P | P | P | Pb=1.4×10 ³ △ |
| 20 | | Chip capacitor | P | P | P | P | P | |
| 21 | | Chip diode | P | P | P | P | X | PBBs,PBDEs=N.D. |
| 22 | | Chip inductance | Enamelled wire | P | P | P | P | P |
| 23 | | | | P | P | P | P | P |
| 24 | | IC | Black body | P | P | P | P | X |
| 25 | | | | P | P | P | P | / |
| 26 | | USB connection base | Silvery metal cover | P | P | P | P | / |
| 27 | | | White plastic frame | P | P | P | P | P |
| 28 | | | Black plastic frame | P | P | P | P | P |
| 29 | | | Metal wafer | P | P | P | P | / |
| 30 | | Lockless switch | Black plastic | P | P | P | P | P |
| 31 | | | Silvery metal piece | P | P | P | P | / |
| 32 | | | Metal dome | P | P | P | X | / |
| 33 | | | Pin | P | P | P | P | / |
| 34 | USB Plug | Black plug material | | P | P | P | P | P |
| 35 | | White plastic frame | | P | P | P | P | P |
| 36 | | Black plastic frame | | P | P | P | P | P |
| 37 | | Silvery metal cover | | P | P | P | P | / |
| 38 | | Silvery metal wafer | | P | P | P | P | / |

The measurement results only apply to the submitted samples.

Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

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

FL2 south Huoju Building, No.181 canghai Rd., Jiangdong High-tech Park Ningbo China

Tel: +86-574-87912121 (16 lines)

Fax: +86-574-87907993

Complaint line: +86-574-87908003

E-mail: cts@cts-lab.com

See Reverse For Terms And Conditions of Service

TEST REPORT

REPORT No. : CGZ3150520-01390-C
 DATE : May 25, 2015
 PAGE : 8 of 9

Note : P = Below Limit (Pass)
 F = Over Limit (Fail)
 X = Inconclusive
 N.D. = not detected (less than MDL)
 1mg/kg=1ppm=0.0001%
 △ According to the declaration from client, the source of lead in the sample could be from the ceramic parts. Lead in electronic ceramic parts is exempted from the requirement of RoHS Directive (2011/65/EU).

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 | $P \leq 500 < X < 1300 \leq F$ | $P \leq 500 < X < 1300 \leq F$ | $P \leq 500 < X < 1300 \leq F$ |
| Cd | $P \leq 50 < X < 130 \leq F$ | $P \leq 50 < X < 130 \leq F$ | $X < 130 \leq F$ |
| Hg | $P \leq 500 < X < 1300 \leq F$ | $P \leq 500 < X < 1300 \leq F$ | $P \leq 500 < X < 1300 \leq F$ |
| Cr | $P \leq 700 < X$ | $P \leq 700 < X$ | $P \leq 500 < X$ |
| Br | $P \leq 250 < X$ | / | $P \leq 250 < X$ |

(2) Chemical Confirmation Result acceptable Limit:

| Test items | Lead (Pb) | Cadmium (Cd) | Mercury (Hg) | Chromium (CrVI) | PBBs | PBDEs |
|------------------|-----------|--------------|--------------|-----------------|-------|-------|
| Unit | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Acceptable Limit | 1000 | 100 | 1000 | 1000 | 1000 | 1000 |

(3) The test results only apply to the materials requested by applicant.

Written by: *Amanda* Inspected by: *Annie* Approved by: *hyt*

End of Report



The measurement results only apply to the submitted samples.
 Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

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

FL2 south Huoju Building, No.181 canghai Rd., Jiangdong High-tech Park Ningbo China

Tel: +86-574-87912121 (16 lines)

Fax: +86-574-87907993

Complaint line: +86-574-87908003

E-mail: cts@cts-lab.com

See Reverse For Terms And Conditions of Service

TEST REPORT

REPORT No. : CGZ3150520-01390-C
DATE : May 25, 2015
PAGE : 9 of 9

3 Sample Reference Photo

The measurement results only apply to the submitted samples.
Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

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

Fl.2 south Huoju Building, No.181 canghai Rd., Jiangdong High-tech Park Ningbo China

Tel: +86-574-87912121 (16 lines)

Fax: +86-574-87907993

Complaint line: +86-574-87908003

E-mail: cts@cts-lab.com

See Reverse For Terms And Conditions of Service