

## 試驗報告

## Test Report

號碼(No.) : KA/2020/81341 日期(Date) : 2020/09/01

頁數 (Page) : 1 of 9

天二科技股份有限公司

EVER OHMS TECHNOLOGY CO., LTD.

高雄市前鎮區高雄加工出口區南四路3號

NO. 3, SOUTH 4TH ROAD, K. E. P. Z. KAOHSIUNG CITY, 80681 TAIWAN R. O. C.

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as) :

送樣廠商(Sample Submitted By) : 天二科技股份有限公司 (EVER OHMS TECHNOLOGY CO., LTD.)  
樣品名稱(Sample Description) : METAL ALLOY LOW RESISTANCE CHIP RESISTOR  
樣品型號(Style/Item No.) : MA SERIES / MAL SERIES  
收件日期(Sample Receiving Date) : 2020/08/25  
測試期間(Testing Period) : 2020/08/25 to 2020/09/01

### 測試需求(Test Requested) :

(1) 依據客戶指定, 檢測鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP. (As specified by client, to test Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

(2) 其他測試項目請見下一頁 . (Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).

報告簽署人/張伯睿/博士/技術經理

Ray Chang, Ph.D./Manager -Tech

Signed for and on behalf of

SGS Taiwan Limited

化學實驗室-高雄/Chemical Laboratory Kaohsiung



PIN CODE: 76F954BC

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

# 試驗報告

## Test Report

號碼(No.) : KA/2020/81341 日期(Date) : 2020/09/01

頁數 (Page) : 2 of 9

天二科技股份有限公司

EVER OHMS TECHNOLOGY CO., LTD.

高雄市前鎮區高雄加工出口區南四路3號

NO. 3, SOUTH 4TH ROAD, K. E. P. Z. KAOHSIUNG CITY, 80681 TAIWAN R. O. C.

### 測試結果(Test Results)

測試部位(PART NAME)No. 1 : 整體混測 (MIXED ALL PARTS)

| 測試項目<br>(Test Items)             | 單位<br>(Unit) | 測試方法<br>(Method)   | MDL | 結果<br>(Result) |
|----------------------------------|--------------|--|-----|----------------|
|                                  |              |  |     | No. 1          |
| 鎘 / Cadmium (Cd)                 | mg/kg        | 參考IEC 62321-5: 2013, 以感應耦合電漿發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-OES.                   | 2   | n. d.          |
| 鉛 / Lead (Pb)                    | mg/kg        | 參考IEC 62321-5: 2013, 以感應耦合電漿發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-OES.                   | 2   | n. d.          |
| 汞 / Mercury (Hg)                 | mg/kg        | 參考IEC 62321-4:2013+AMD1:2017, 以感應耦合電漿發射光譜儀檢測. / With reference to IEC 62321-4:2013+AMD1:2017 and performed by ICP-OES. | 2   | n. d.          |
| 六價鉻 / Hexavalent Chromium Cr(VI) | mg/kg        | 參考IEC 62321-7-2:2017, 以UV-VIS檢測. / With reference to IEC 62321-7-2:2017 and performed by UV-VIS.                       | 8   | n. d.          |
| <b>多溴聯苯總和 / Sum of PBBs</b>      | mg/kg        | 參考IEC 62321-6: 2015, 以氣相層析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by GC/MS.                        | -   | n. d.          |
| 一溴聯苯 / Monobromobiphenyl         |              |  | 5   | n. d.          |
| 二溴聯苯 / Dibromobiphenyl           |              |  | 5   | n. d.          |
| 三溴聯苯 / Tribromobiphenyl          |              |  | 5   | n. d.          |
| 四溴聯苯 / Tetrabromobiphenyl        |              |  | 5   | n. d.          |
| 五溴聯苯 / Pentabromobiphenyl        |              |  | 5   | n. d.          |
| 六溴聯苯 / Hexabromobiphenyl         |              |  | 5   | n. d.          |
| 七溴聯苯 / Heptabromobiphenyl        |              |  | 5   | n. d.          |
| 八溴聯苯 / Octabromobiphenyl         |              |  | 5   | n. d.          |
| 九溴聯苯 / Nonabromobiphenyl         |              |  | 5   | n. d.          |
| 十溴聯苯 / Decabromobiphenyl         | 5            | n. d.  |     |                |

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

# 試驗報告

# Test Report

號碼(No.) : KA/2020/81341 日期(Date) : 2020/09/01

頁數 (Page) : 3 of 9

天二科技股份有限公司

EVER OHMS TECHNOLOGY CO., LTD.

高雄市前鎮區高雄加工出口區南四路3號

NO. 3, SOUTH 4TH ROAD, K. E. P. Z. KAOHSIUNG CITY, 80681 TAIWAN R. O. C.

| 測試項目<br>(Test Items)  | 單位<br>(Unit) | 測試方法<br>(Method)   | MDL | 結果<br>(Result) |
|---|--------------|--|-----|----------------|
|   |              |  |     | No. 1          |
| 多溴聯苯醚總和 / Sum of PBDEs  | mg/kg        | 參考IEC 62321-6: 2015, 以氣相層析/質譜儀檢測. / With reference to IEC 62321-6: 2015 and performed by GC/MS.          | -   | n. d.          |
| 一溴聯苯醚 / Monobromodiphenyl ether   |              |  | 5   | n. d.          |
| 二溴聯苯醚 / Dibromodiphenyl ether   |              |  | 5   | n. d.          |
| 三溴聯苯醚 / Tribromodiphenyl ether  |              |  | 5   | n. d.          |
| 四溴聯苯醚 / Tetrabromodiphenyl  |              |  | 5   | n. d.          |
| 五溴聯苯醚 / Pentabromodiphenyl  |              |  | 5   | n. d.          |
| 六溴聯苯醚 / Hexabromodiphenyl ether   |              |  | 5   | n. d.          |
| 七溴聯苯醚 / Heptabromodiphenyl  |              |  | 5   | n. d.          |
| 八溴聯苯醚 / Octabromodiphenyl ether   |              |  | 5   | n. d.          |
| 九溴聯苯醚 / Nonabromodiphenyl ether   |              |  | 5   | n. d.          |
| 十溴聯苯醚 / Decabromodiphenyl ether   | 5            | n. d.  |     |                |
| 鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)              | mg/kg        | 參考IEC 62321-8:2017, 以氣相層析儀/質譜儀檢測. / With reference to IEC 62321-8:2017. Analysis was performed by GC/MS. | 50  | n. d.          |
| 鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)                    | mg/kg        |  | 50  | n. d.          |
| 鄰苯二甲酸丁苄甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)              | mg/kg        |  | 50  | n. d.          |
| 鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7) | mg/kg        |  | 50  | n. d.          |

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

# 試驗報告

## Test Report

號碼(No.) : KA/2020/81341 日期(Date) : 2020/09/01

頁數 (Page) : 4 of 9

天二科技股份有限公司

EVER OHMS TECHNOLOGY CO., LTD.

高雄市前鎮區高雄加工出口區南四路3號

NO. 3, SOUTH 4TH ROAD, K. E. P. Z. KAOHSIUNG CITY, 80681 TAIWAN R. O. C.

| 測試項目<br>(Test Items)                                     | 單位<br>(Unit) | 測試方法<br>(Method)   | MDL | 結果<br>(Result) |
|--|--------------|--|-----|----------------|
|  |              |  |     | No. 1          |
| 鹵素 / Halogen   |              |  |     |                |
| 鹵素 (氟) / Halogen-Fluorine (F)<br>(CAS No. : 14762-94-8)  | mg/kg        | 參考BS EN 14582:2016，以離子層析儀檢測。 / With reference to BS EN 14582:2016. Analysis was performed by IC. | 50  | n. d.          |
| 鹵素 (氯) / Halogen-Chlorine (Cl)<br>(CAS No. : 22537-15-1) | mg/kg        |  | 50  | n. d.          |
| 鹵素 (溴) / Halogen-Bromine (Br)<br>(CAS No. : 10097-32-2)  | mg/kg        |  | 50  | n. d.          |
| 鹵素 (碘) / Halogen-Iodine (I)<br>(CAS No. : 14362-44-8)    | mg/kg        |  | 50  | n. d.          |

### 備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n. d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. 樣品的測試是基於申請人要求混合測試，報告中的混合測試結果不代表其中個別單一材質的含量。(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

## 試驗報告 Test Report

號碼(No.) : KA/2020/81341 日期(Date) : 2020/09/01

頁數 (Page) : 5 of 9

天二科技股份有限公司

EVER OHMS TECHNOLOGY CO., LTD.

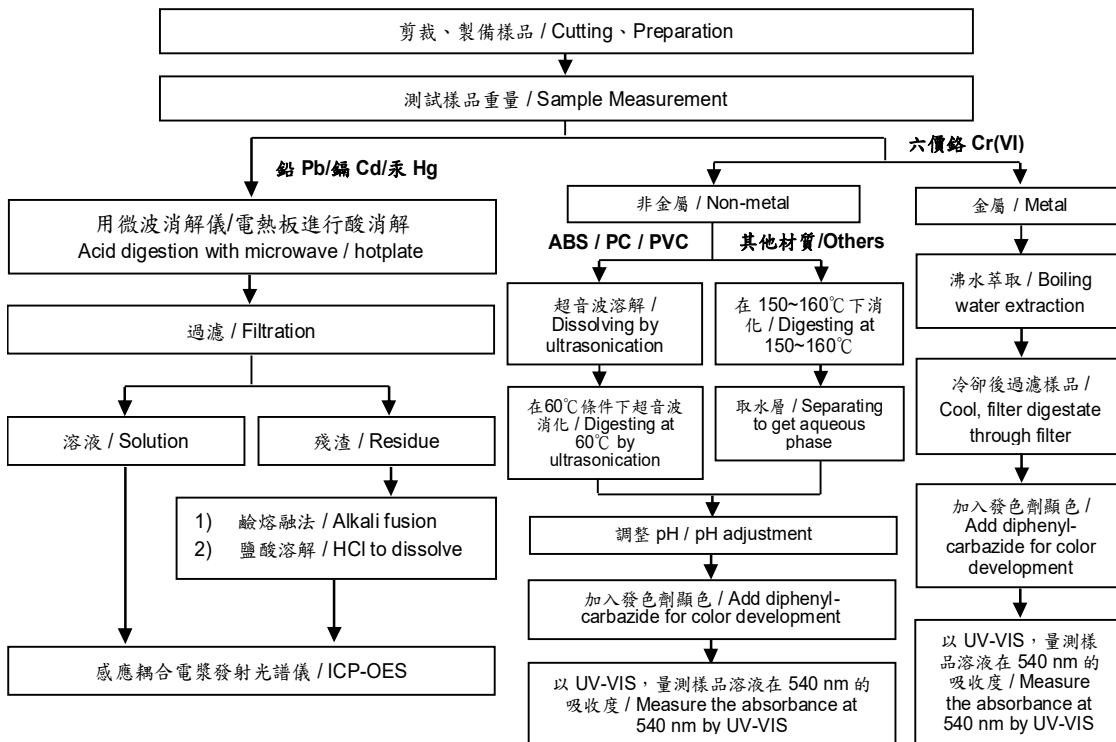
高雄市前鎮區高雄加工出口區南四路3號

NO. 3, SOUTH 4TH ROAD, K. E. P. Z. KAOHSIUNG CITY, 80681 TAIWAN R. O. C.

### 重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)



# 試驗報告

## Test Report

號碼(No.) : KA/2020/81341 日期(Date) : 2020/09/01

頁數 (Page) : 6 of 9

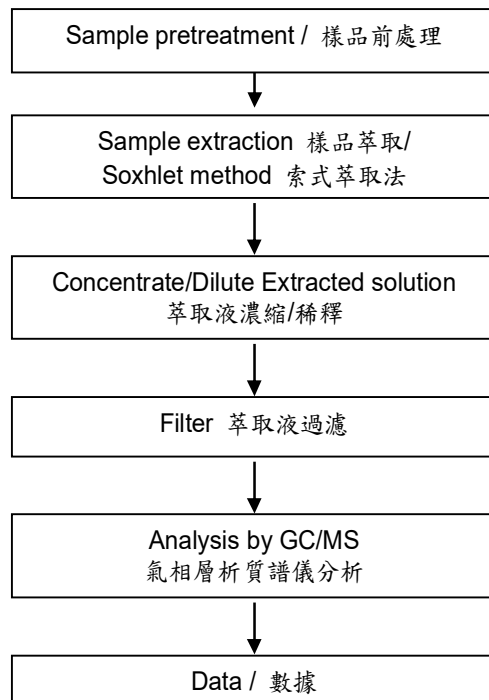
天二科技股份有限公司

EVER OHMS TECHNOLOGY CO., LTD.

高雄市前鎮區高雄加工出口區南四路3號

NO. 3, SOUTH 4TH ROAD, K. E. P. Z. KAOHSIUNG CITY, 80681 TAIWAN R. O. C.

### 多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

# 試驗報告

## Test Report

號碼(No.) : KA/2020/81341 日期(Date) : 2020/09/01

頁數 (Page) : 7 of 9

天二科技股份有限公司

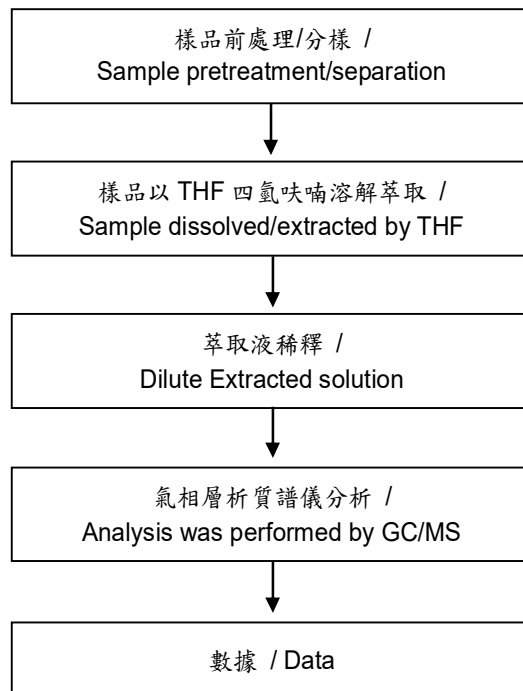
EVER OHMS TECHNOLOGY CO., LTD.

高雄市前鎮區高雄加工出口區南四路3號

NO. 3, SOUTH 4TH ROAD, K. E. P. Z. KAOHSIUNG CITY, 80681 TAIWAN R. O. C.

### 可塑劑分析流程圖 / Analytical flow chart of phthalate content

#### 【測試方法/Test method: IEC 62321-8】



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

## 試驗報告 Test Report

號碼(No.) : KA/2020/81341 日期(Date) : 2020/09/01

頁數 (Page) : 8 of 9

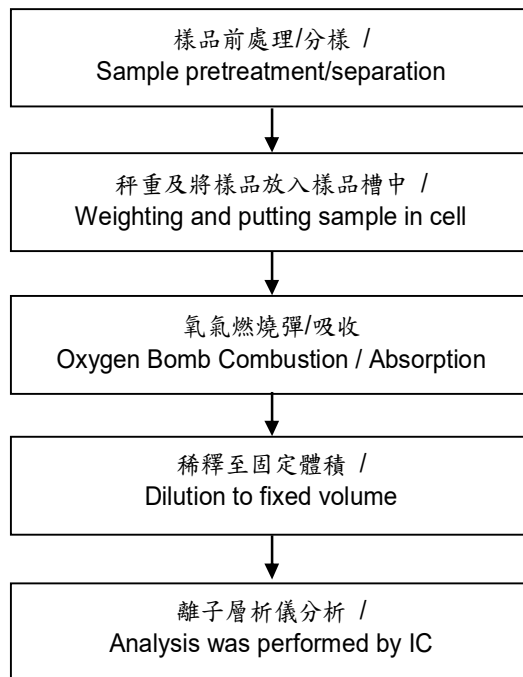
天二科技股份有限公司

EVER OHMS TECHNOLOGY CO., LTD.

高雄市前鎮區高雄加工出口區南四路3號

NO. 3, SOUTH 4TH ROAD, K. E. P. Z. KAOHSIUNG CITY, 80681 TAIWAN R. O. C.

### 鹵素分析流程圖 / Analytical flow chart of Halogen



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



## 試驗報告

## Test Report

號碼(No.) : KA/2020/81341 日期(Date) : 2020/09/01

頁數 (Page) : 9 of 9

天二科技股份有限公司

EVER OHMS TECHNOLOGY CO., LTD.

高雄市前鎮區高雄加工出口區南四路3號

NO. 3, SOUTH 4TH ROAD, K. E. P. Z. KAOHSIUNG CITY, 80681 TAIWAN R. O. C.

\* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。\*  
(The tested sample / part is marked by an arrow if it's shown on the photo.)

### KA/2020/81341



\*\* 報告結尾 (End of Report) \*\*

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.