



Test Report

No.: ETR23903964

Date: 27-Sep-2023

Page: 1 of 12

SHINGTECH ELECTRONICS CO., LTD.

NO. 303, SEC. 2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY 338, TAIWAN (R. O. C.)

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By : SHINGTECH ELECTRONICS CO., LTD.

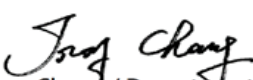
Sample Name : PCB

Sample Receiving Date : 21-Sep-2023

Testing Period : 21-Sep-2023 to 27-Sep-2023

Test Requested : Testing item(s) is/are specified by client. Please refer to result table for testing item(s).

Test Results : Please refer to following pages.


 Troy Chang / Department Manager
 Signed for and on behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory - Taipei



PIN CODE: 433A4BD4

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.

Test Report

No.: ETR23903964

Date: 27-Sep-2023

Page: 2 of 12

SHINGTECH ELECTRONICS CO., LTD.

NO. 303, SEC. 2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY 338, TAIWAN (R. O. C.)

Test Part Description

No.1 : GREEN PCB

Test Result(s)

| Test Item(s) | Method | Unit | MDL | Result |
|-----------------------------------|--|-------|-----|--------|
| | | | | No.1 |
| Chlorofluorocarbons (CFCs) | | | | |
| CFC-13 (CAS No.: 75-72-9) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| CFC-111 (CAS No.: 354-56-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| CFC-112 (CAS No.: 76-12-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| CFC-211 (CAS No.: 422-78-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| CFC-212 (CAS No.: 3182-26-1) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| CFC-213 (CAS No.: 2354-06-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| CFC-214 (CAS No.: 29255-31-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| CFC-215 (CAS No.: 4259-43-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| CFC-216 (CAS No.: 661-97-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| CFC-217 (CAS No.: 422-86-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| CFC-12 (CAS No.: 75-71-8) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| CFC-11 (CAS No.: 75-69-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| CFC-115 (CAS No.: 76-15-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| CFC-114 (CAS No.: 76-14-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| CFC-113 (CAS No.: 76-13-1) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | 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.

Test Report

No.: ETR23903964

Date: 27-Sep-2023

Page: 3 of 12

SHINGTECH ELECTRONICS CO., LTD.

NO. 303, SEC. 2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY 338, TAIWAN (R. O. C.)

| Test Item(s) | Method | Unit | MDL | Result |
|---|--|-------|-----|--------|
| | | | | No.1 |
| Hydrochlorofluorocarbons (HCFCs) | | | | |
| HCFC-21 (CAS No.: 75-43-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-22 (CAS No.: 75-45-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-31 (CAS No.: 593-70-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-121 (CAS No.: 354-14-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-122 (CAS No.: 354-21-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-123 (CAS No.: 306-83-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-124 (CAS No.: 2837-89-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-131 (CAS No.: 359-28-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-132b (CAS No.: 1649-08-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-133a (CAS No.: 75-88-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-142b (CAS No.: 75-68-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-221 (CAS No.: 422-26-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-222 (CAS No.: 422-49-1) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-223 (CAS No.: 422-52-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-224 (CAS No.: 422-54-8) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-225ca (CAS No.: 422-56-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-225cb (CAS No.: 507-55-1) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | 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.

Test Report

No.: ETR23903964

Date: 27-Sep-2023

Page: 4 of 12

SHINGTECH ELECTRONICS CO., LTD.

NO. 303, SEC. 2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY 338, TAIWAN (R. O. C.)

| Test Item(s) | Method | Unit | MDL | Result |
|--------------------------------|--|-------|-----|--------|
| | | | | No.1 |
| HCFC-226 (CAS No.: 431-87-8) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-231 (CAS No.: 421-94-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-232 (CAS No.: 460-89-9) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-233 (CAS No.: 7125-84-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-234 (CAS No.: 425-94-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-235 (CAS No.: 460-92-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-241 (CAS No.: 666-27-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-242 (CAS No.: 460-63-9) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-244 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-251 (CAS No.: 421-41-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-252 (CAS No.: 819-00-1) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-261 (CAS No.: 420-97-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-262 (CAS No.: 421-02-03) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-271 (CAS No.: 430-55-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-141b (CAS No.: 1717-00-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-243 (CAS No.: 460-69-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-253 (CAS No.: 460-35-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-141 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | 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.

Test Report

No.: ETR23903964

Date: 27-Sep-2023

Page: 5 of 12

SHINGTECH ELECTRONICS CO., LTD.

NO. 303, SEC. 2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY 338, TAIWAN (R. O. C.)

| Test Item(s) | Method | Unit | MDL | Result |
|--|--|-------|-----|--------|
| | | | | No.1 |
| HCFC-142 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-151 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HCFC-225 | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Halons | | | | |
| Halon-1211 (CAS No.: 353-59-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Halon-1301 (CAS No.: 75-63-8) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Halon-2402 (CAS No.: 124-73-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Methyl Bromide (CAS No.: 74-83-9) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Hydrobromofluorocarbons (HBFCs) | | | | |
| HBFC-271B1 (C3H6FBr) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-262B1 (C3H5F2Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-261B2 (C3H5FBr2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-253B1 (C3H4F3Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-252B2 (C3H4F2Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-251B3 (C3H4FBr3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-244B1 (C3H3F4Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-243B2 (C3H3F3Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-242B3 (C3H3F2Br3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-241B4 (C3H3FBr4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | 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.

Test Report

No.: ETR23903964

Date: 27-Sep-2023

Page: 6 of 12

SHINGTECH ELECTRONICS CO., LTD.

NO. 303, SEC. 2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY 338, TAIWAN (R. O. C.)

| Test Item(s) | Method | Unit | MDL | Result |
|------------------------|--|-------|-----|--------|
| | | | | No.1 |
| HBFC-235B1 (C3H2F5Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-234B2 (C3H2F4Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-233B3 (C3H2F3Br3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-232B4 (C3H2F2Br4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-231B5 (C3H2FBr5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-226B1 (C3HF6Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-225B2 (C3HF5Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-224B3 (C3HF4Br3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-223B4 (C3HF3Br4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-222B5 (C3HF2Br5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-221B6 (C3HFBr6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-151B1 (C2H4FBr) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-142B1 (C2H3F2Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-141B2 (C2H3FBr2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-133B1 (C2H2F3Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-132B2 (C2H2F2Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-131B3 (C2H2FBr3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-124B1 (C2HF4Br) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | 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.

Test Report

No.: ETR23903964

Date: 27-Sep-2023

Page: 7 of 12

SHINGTECH ELECTRONICS CO., LTD.

NO. 303, SEC. 2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY 338, TAIWAN (R. O. C.)

| Test Item(s) | Method | Unit | MDL | Result |
|---|--|-------|-----|--------|
| | | | | No.1 |
| HBFC-123B2 (C2HF3Br2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-122B3 (C2HF2Br3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-121B4 (C2HFBr4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-31B1 (CH2FBr) (CAS No.: 373-52-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-22B1 (CHF2Br) (CAS No.: 1511-62-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HBFC-21B2 (CHFB2) (CAS No.: 1868-53-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Hydrofluorocarbon (HFCs) | | | | |
| HFC-23 (CHF3) (CAS No.: 75-46-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HFC-32 (CH2F2) (CAS No.: 75-10-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HFC-41 (CH3F) (CAS No.: 593-53-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HFC-43-10mee (C5H2F10) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HFC-125 (C2HF5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HFC-134 (C2H2F4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HFC-134a (CH2FCF3) (CAS No.: 811-97-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HFC-143 (CH3F3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HFC-143a (CH3F3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HFC-152a (C2H4F2) (CAS No.: 75-37-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HFC-227ea (C3HF7) (CAS No.: 431-89-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | 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.

Test Report

No.: ETR23903964

Date: 27-Sep-2023

Page: 8 of 12

SHINGTECH ELECTRONICS CO., LTD.

NO. 303, SEC. 2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY 338, TAIWAN (R. O. C.)

| Test Item(s) | Method | Unit | MDL | Result |
|---|--|-------|-----|--------|
| | | | | No.1 |
| HFC-236fa (CAS No.: 431-63-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HFC-245ca (C3H3F5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HFC-245fa (C3H3F5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HFC-365mfc (C4H5F5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| HFC-236ea (C3H2F6) (CAS No.: 431-63-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Perfluorocarbon (PFCs) | | | | |
| 1,4-dihydrooctafluorobutane (CAS No.: 377-36-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| 2-Perfluoromethylpentane (CAS No.: 355-04-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Decafluorobutane (CAS No.: 355-25-9) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| F14 (CAS No.: 75-73-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Fluorocarbon 116 (CAS No.: 76-16-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Freon 218 (CAS No.: 76-19-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Freon C318 (CAS No.: 115-25-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Nonafluor-2-(trifluoromethyl)butane (CAS No.: 594-91-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Perfluoroisobutene (CAS No.: 382-21-8) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Perfluorohexane (CAS No.: 355-42-0) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Perfluoro-n-pentane (CAS No.: 678-26-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Perfluor-1-butene (CAS No.: 357-26-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | 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.

Test Report

No.: ETR23903964

Date: 27-Sep-2023

Page: 9 of 12

SHINGTECH ELECTRONICS CO., LTD.

NO. 303, SEC. 2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY 338, TAIWAN (R. O. C.)

| Test Item(s) | Method | Unit | MDL | Result |
|--|--|-------|-----|--------|
| | | | | No.1 |
| Chlorinate hydrocarbon (CHCs) | | | | |
| 1,1-Dichloropropene (CAS No.: 563-58-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| 1,2-Dichloroethane (CAS No.: 107-06-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| 2,2-Dichloropropane (CAS No.: 594-20-7) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Carbon tetrachloride (CAS No.: 56-23-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Chloromethane (CAS No.: 74-87-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| cis-1,2-Dichloroethene (CAS No.: 156-59-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| cis-1,3-Dichloropropene (CAS No.: 10061-01-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Hexachlorobutadiene (CAS No.: 87-68-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| trans-1,2-Dichloroethene (CAS No.: 156-60-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| trans-1,3-Dichloropropene (CAS No.: 10061-02-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Dichloromethane, Methylene chloride (CAS No.: 75-09-2) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| 1,2-Dichloropropane (CAS No.: 78-87-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| 1,1,1,2-Tetrachloroethane (CAS No.: 630-20-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| 1,1,1-Trichloroethane (CAS No.: 71-55-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| 1,1,2-Trichloroethane (CAS No.: 79-00-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| 1,1,2,2-Tetrachloroethane (CAS No.: 79-34-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| 1,1-Dichloroethylene (CAS No.: 75-35-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | 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.

Test Report

No.: ETR23903964

Date: 27-Sep-2023

Page: 10 of 12

SHINGTECH ELECTRONICS CO., LTD.

NO. 303, SEC. 2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY 338, TAIWAN (R. O. C.)

| Test Item(s) | Method | Unit | MDL | Result |
|---|--|-------|-----|--------|
| | | | | No.1 |
| 1,1-Dichloroethane (CAS No.: 75-34-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Chloroethane (CAS No.: 75-00-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Tetrachloroethene (CAS No.: 127-18-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Trichloroethylene (CAS No.: 79-01-6) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| 1,3-Dichloropropane (CAS No.: 142-28-9) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Chloroform (CAS No.: 67-66-3) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| 1,2,3-Trichloropropane (CAS No.: 96-18-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Bromochloromethan (CAS No.: 74-97-5) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |
| Sulfur hexafluoride (CAS No.: 2551-62-4) | With reference to US EPA 5021A: 2014, analysis was performed by GC/MS. | mg/kg | 1 | n.d. |

Note :

1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected (Less than MDL)

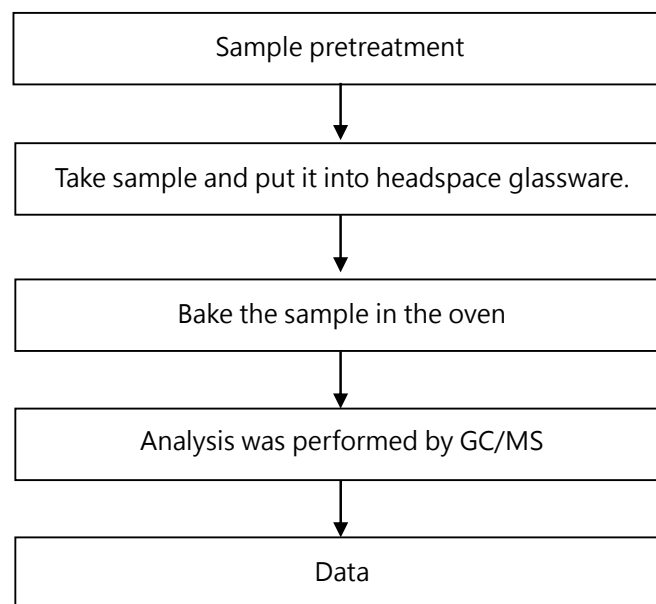
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. 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.

SHINGTECH ELECTRONICS CO., LTD.

NO. 303, SEC. 2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY 338, TAIWAN (R. O. C.)

Analytical flow chart of volatile organic compounds (VOCs)

【Reference method : US EPA 5021A】



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.

Test Report

No.: ETR23903964

Date: 27-Sep-2023

Page: 12 of 12

SHINGTECH ELECTRONICS CO., LTD.

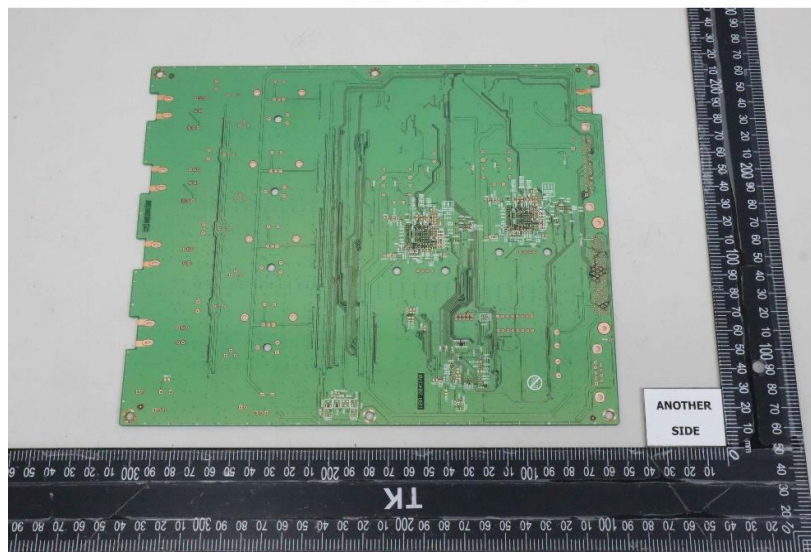
NO. 303, SEC. 2, NANSHAN RD., LUZHU DISTRICT, TAOYUAN CITY 338, TAIWAN (R. O. C.)

* The tested sample / part is marked by an arrow if it's shown on the photo. *

ETR23903964



ETR23903964



** 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.