

| st Report   | No.:  | CANEC23005796603  | Date:  | Jul 14, 2023   | Page 1 of 8                               |  |  |
|---|---|---|--|--|---|--|--|
| Client Name: JIANGSU                                |   | IGJING ELECTRONICS  | TECHNOLOG  | Y CO.,LTD  |   |  |  |
|   | FLOOR,C BLOCK,TENGFEI BUILDING,YAN CHUANG YUAN,NANJING AREA OF<br>A (JIANGSU) PILOT FREE TRADE ZONE |   |  |  |   |  |  |
| Sample Name:  | Sei   | miconductor device  |  |  |   |  |  |
| Model No.:  | SM  | IAG   |  |  |   |  |  |
| Client Ref. Information:<br>The above sample(s) and | KB<br>SM<br>TO<br>26<br>SO<br>2L<br>22  | BJ、ABS、DB、DBS、O<br>P、KBU、MBF、MBS、<br>IBG、SMBJ、SMC、SM<br>-126/220(-XL)/220A/2<br>3/277/3P、PDFN、R-1、<br>D-123HE、TO-220F-B、<br>、4GBJ、TO-92K/126K/2<br>0CK/220FK/262K/263K/2<br>ation were provided by th | SMA、SMAF、<br>CG、SMD、S<br>20F/227/247/2<br>R-6、A-405、<br>TO-220-2L、<br>220AK/220BK/<br>3PK/247K/252 | SMAG、SMAJ、<br>OD-123FL、SOT<br>251/251S/252/<br>DO-15、DO-27、<br>TO-220F-2L、TO | SMB、SMBF、<br>-89(-XL)/223、<br>DO-41、UMSB、 |  |  |
| SGS Job No.:  | CP  | 23-024784   |  |  |   |  |  |
| SGS Ref No:   | SH  | P23-006925  |  |  |   |  |  |
| Sample Receiving Date:                              | Jul   | 07, 2023  |  |  |   |  |  |
| Testing Period:                                     |   | Jul 07, 2023 ~ Jul 14, 2023   |  |  |   |  |  |
| Test Requested:                                     | Sel   | lect test(s) as requested l   | by the client.   |  |   |  |  |
| Test Method(s):                                     | Ple   | ase refer to next page(s)   |  |  |   |  |  |

Test Result(s): Please refer to next page(s).

| Test Requirement  | Conclusion |
|---|------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive              |            |
| 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated     |            |
| biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) | Pass       |
| phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and |            |
| Diisobutyl phthalate (DIBP)   |            |

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Arsene Ye

Arsene Ye Approved Signatory





Unless otherwise agreed in writing, 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/en/Terms-and-Conditions. 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 instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form 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. Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ess.com

No.198, Kazhu Road, Science City, Economic & Technological Development Area, Guargabou, Guargabou

t (86–20) 82155555 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



# **Test Report**

#### No.: CANEC23005796603

Date: Jul 14, 2023

# Test Result(s):

Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description                  |
|-------|------------|-------------------------|------------------------------|
| SN1   | A1         | CAN23-0057966-0001.C001 | Black body with silver metal |

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

#### EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

# Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s)                       | Limit | Unit(s) | MDL | A1    |
|------------------------------------|-------|---------|-----|-------|
| Cadmium(Cd)                        | 100   | mg/kg   | 2   | ND    |
| Lead (Pb)                          | 1000  | mg/kg   | 2   | 8720▲ |
| Mercury (Hg)                       | 1000  | mg/kg   | 2   | ND    |
| Hexavalent Chromium (Cr(VI))       | 1000  | mg/kg   | 8   | ND    |
| Polybromobiphenyl (PBBs)           | 1000  | mg/kg   | -   | ND    |
| Monobromobiphenyl (MonoBB)         | -     | mg/kg   | 5   | ND    |
| Dibromobiphenyl (DiBB)             | -     | mg/kg   | 5   | ND    |
| Tribromobiphenyl (TriBB)           | -     | mg/kg   | 5   | ND    |
| Tetrabromobiphenyl (TetraBB)       | -     | mg/kg   | 5   | ND    |
| Pentabromobiphenyl (PentaBB)       | -     | mg/kg   | 5   | ND    |
| Hexabromobiphenyl (HexaBB)         | -     | mg/kg   | 5   | ND    |
| Heptabromobiphenyl (HeptaBB)       | -     | mg/kg   | 5   | ND    |
| Octabromobiphenyl (OctaBB)         | -     | mg/kg   | 5   | ND    |
| Nonabromobiphenyl (NonaBB)         | -     | mg/kg   | 5   | ND    |
| Decabromobiphenyl (DecaBB)         | -     | mg/kg   | 5   | ND    |
| Polybromodiphenyl ether(PBDEs)     | 1000  | mg/kg   | -   | ND    |
| Monobromodiphenylether (MonoBDE)   | -     | mg/kg   | 5   | ND    |
| Dibromodiphenylether (DiBDE)       | -     | mg/kg   | 5   | ND    |
| Tribromodiphenylether (TriBDE)     | -     | mg/kg   | 5   | ND    |
| Tetrabromodiphenylether (TetraBDE) | -     | mg/kg   | 5   | ND    |
| Pentabromodiphenylether (PentaBDE) | -     | mg/kg   | 5   | ND    |
| Hexabromodiphenylether (HexaBDE)   | -     | mg/kg   | 5   | ND    |
| Heptabromodiphenylether (HeptaBDE) | -     | mg/kg   | 5   | ND    |
| Octabromodiphenylether (OctaBDE)   | -     | mg/kg   | 5   | ND    |
| Nonabromodiphenylether (NonaBDE)   | -     | mg/kg   | 5   | ND    |
| Decabromodiphenylether (DecaBDE)   | -     | mg/kg   | 5   | ND    |
| Dibutyl Phthalate(DBP)             | 1000  | mg/kg   | 50  | ND    |
| Benzyl Butyl Phthalate(BBP)        | 1000  | mg/kg   | 50  | ND    |



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. 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 instructions, 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. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@gss.com

No.198, Kazhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86–20) 82155555 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



| Гes | at Report  | No.: | CANEC230 | 05796603 | Date: Ju | II 14, 2023 | Page 3 of | 8 |
|-----|--|------|----------|----------|----------|-------------|-----------|---|
|     | Test Item(s)   |      |          | Limit    | Unit(s)  | MDL         | A1        |   |
|     | Bis-(2-ethylhexyl) Phthalate(DEHP)<br>Diisobutyl Phthalate(DIBP) |      |          | 1000     | mg/kg    | 50          | ND        |   |
|     |  |      |          | 1000     | mg/kg    | 50          | ND        |   |

#### Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

(4) ▲ :According to the declaration from the client, Lead (Pb) in specimen is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(a)|: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead). According to the declaration from the client, Lead (Pb) in specimen is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(c)-I|: 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.

Remark: Results & photo(s) of this report refer to test report CANEC23005796601.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. 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 instructions, 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. y 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 refor only to the sample(s) tested. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ess.com

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86–20) 82155555 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com

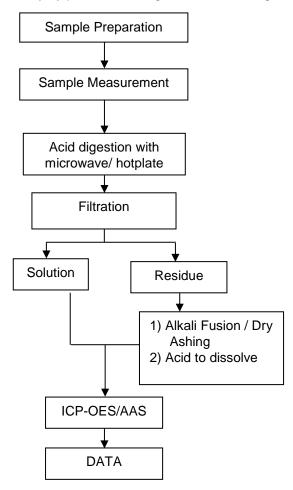


# Test Report ATTACHMENTS

No.: CANEC23005796603

# **Elements Testing Flow Chart**

These samples were dissolved totally by pre-conditioning method according to below flow chart.





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. 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 instructions, if any. The Company's sole responsibility is to its Client and this document does not exconerate 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. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@gss.com

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86–20) 82155555 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com

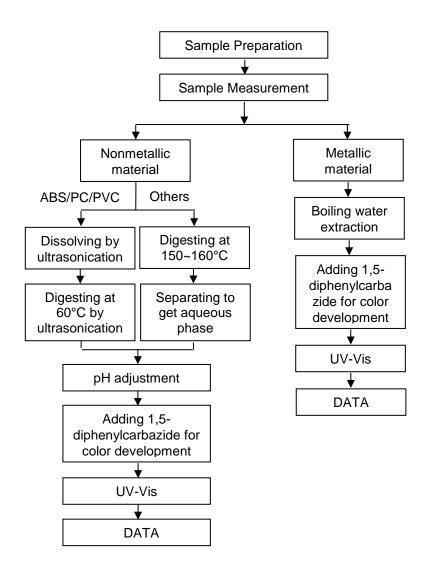


# No.: CANEC23005796603

# ATTACHMENTS

**Test Report** 

# Hexavalent Chromium (Cr(VI)) Testing Flow Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. 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 instructions, if any. The Company's sole responsibility is to its Client and this document does not exconerate 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. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@gss.com

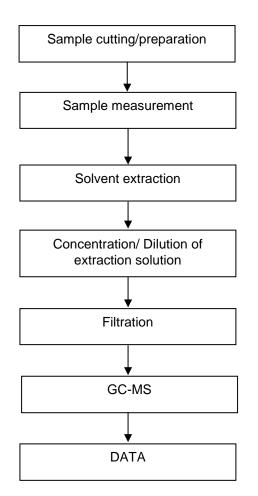
No.198, Kazhu Read, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86–20) 82155555 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



# Test Report ATTACHMENTS

# No.: CANEC23005796603

# **PBBs/PBDEs Testing Flow Chart**





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. 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 instructions, 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. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@gss.com

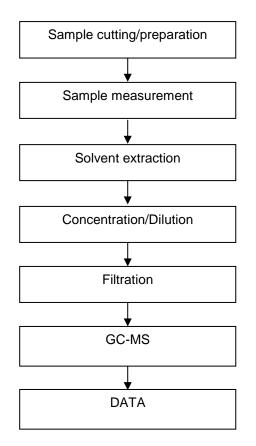
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86–20) 82155555 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



# Test Report ATTACHMENTS

#### **No.:** CANEC23005796603

#### **Phthalates Testing Flow Chart**





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. 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 instructions, if any. The Company's sole responsibility is to its Client and this document does not exconerate 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. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@egs.com

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86–20) 82155555 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com



# Test Report No.: CANEC23005796603 Date: Jul 14, 2023 Page 8 of 8 Sample Photo: CANEC23005796603 Optimized Colspan="2">CANEC23005796603 Optimized Colspan="2">Optimized Colspan="2">CaneC23005796603 Optimized Colspan="2">Optimized Colspan="2">CaneC23005796603 Optimized Colspan="2">Optimized Colspan="2">CaneC23005796603

SGS authenticate the photo on original report only \*\*\* End of Report \*\*\*



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. 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 instructions, 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. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@gss.com

No.198, Kazhu Read, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86–20) 82155555 www.sgsgroup.com.cn t (86–20) 82155555 sgs.china@sgs.com