TEST REPORT
(测试报告件)

申请公司(APPLICANT) : SAMSUNG ELECTRO-MECHANICS
公司住所(ADDRESS) : 150, Maeyeong-ro, Yeongtong-gu,
                      Suwon-si, Gyeonggi-do, Korea

报告号(REPORT NO.) : RT19R-S4740-049-C  日期(DATE) : 2019 年 11 月 06 日

样品描述(SAMPLE DESCRIPTION):
样品名称 (NAME/TYPt OF PRODUCT) : POWER INDUCTOR CIG TYPE
样品编号 (SAMPLE ID NO.) : RT19R-S4740-049
生产商/贸易商 (MANUFACTURER/VENDOR) : SAMSUNG ELECTRO-MECHANICS
样品收到日期 (SAMPLE RECEIVED) : 2019年 10月 23日
测试进行日期 (TESTING DATE) : 2019年 10月 23日至 2019年 11月 05日
测试方法 (TEST METHOD(S)) : 参考续页.
测试结果 (TEST RESULT(S)) : 参考续页.

注1: 检测结果只是针对来样所作的检测.
(Note 1: The test results presented in this report relate only to the object tested.)

注2: 未经测试实验室书面允许，报告不能被部分复制.
(Note 2: This report shall not be reproduced except in full without the written approval of the testing laboratory.)

注3: 此报告所测试项目并不属于KOLAS 认证范围内.
(Note 3: This report is not related to the scope of Korea laboratory accreditation scheme.)

测试 (Approved by):  
Jade Jang / 测试负责人

批准 (Authorized by):  
Bo Park / 实验室经理

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# TEST REPORT
(测试报告件)

<table>
<thead>
<tr>
<th>测试项目 (TEST ITEM)</th>
<th>单位 (UNIT)</th>
<th>测试方法 (TEST METHOD)</th>
<th>报告限量值 (MDL)</th>
<th>结果 (RESULT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>镉 (Cadmium, Cd)</td>
<td>mg/kg</td>
<td>参照 IEC 62321-5 Edition 1.0 : 2013，用 ICP-OES 进行的分析</td>
<td>0.5</td>
<td>N.D.</td>
</tr>
<tr>
<td>铅 (Lead, Pb)</td>
<td>mg/kg</td>
<td></td>
<td>5</td>
<td>N.D.</td>
</tr>
<tr>
<td>汞 (Mercury, Hg)</td>
<td>mg/kg</td>
<td>参照 IEC 62321-4 Edition 1.0 : 2013，用 ICP-OES 进行的分析</td>
<td>2</td>
<td>N.D.</td>
</tr>
<tr>
<td>六价铬 (Hexavalent Chromium, Cr⁶⁺)</td>
<td>mg/kg</td>
<td>参照 IEC 62321-7-2 Edition 1.0 : 2017，用 alkaline/toluene digestion，用 UV-VIS Spectrophotometer 进行的分析</td>
<td>8</td>
<td>N.D.</td>
</tr>
</tbody>
</table>

| 多溴联苯 (Polybrominated Biphenyl, PBBs) | mg/kg | 参照 IEC 62321-6 Edition 1.0 : 2015，用 GC/MS 进行的分析 | 5               | N.D.         |
| 一溴联苯 (Monobromobiphenyl)           | mg/kg |                                         | 5               | N.D.         |
| 二溴联苯 (Dibromobiphenyl)             | mg/kg |                                         | 5               | N.D.         |
| 三溴联苯 (Tribromobiphenyl)            | mg/kg |                                         | 5               | N.D.         |
| 四溴联苯 (Tetabromobiphenyl)           | mg/kg |                                         | 5               | N.D.         |
| 五溴联苯 (Pentabromobiphenyl)          | mg/kg |                                         | 5               | N.D.         |
| 六溴联苯 (Hexabromobiphenyl)           | mg/kg |                                         | 5               | N.D.         |
| 七溴联苯 (Heptabromobiphenyl)          | mg/kg |                                         | 5               | N.D.         |
| 八溴联苯 (Octabromobiphenyl)           | mg/kg |                                         | 5               | N.D.         |
| 九溴联苯 (Nonabromobiphenyl)           | mg/kg |                                         | 5               | N.D.         |
| 十溴联苯 (Decabromobiphenyl)           | mg/kg |                                         | 5               | N.D.         |

| 多溴联苯醚 (Polybrominated Diphenyl Ether, PBDEs) | mg/kg | 参照 IEC 62321-6 Edition 1.0 : 2015，用 GC/MS 进行的分析 | 5               | N.D.         |
| 一溴联苯醚 (Monobromodiphenylether)           | mg/kg |                                         | 5               | N.D.         |
| 二溴联苯醚 (Dibromodiphenylether)             | mg/kg |                                         | 5               | N.D.         |
| 三溴联苯醚 (Tribromodiphenylether)            | mg/kg |                                         | 5               | N.D.         |
| 四溴联苯醚 (Tetabromodiphenylether)           | mg/kg |                                         | 5               | N.D.         |
| 五溴联苯醚 (Pentabromodiphenylether)          | mg/kg |                                         | 5               | N.D.         |
| 六溴联苯醚 (Hexabromodiphenylether)           | mg/kg |                                         | 5               | N.D.         |
| 七溴联苯醚 (Heptabromodiphenylether)          | mg/kg |                                         | 5               | N.D.         |
| 八溴联苯醚 (Octabromodiphenylether)           | mg/kg |                                         | 5               | N.D.         |
| 九溴联苯醚 (Nonabromodiphenylether)           | mg/kg |                                         | 5               | N.D.         |
| 十溴联苯醚 (Decabromodiphenylether)           | mg/kg |                                         | 5               | N.D.         |

Tested by: Jooyeon Lee, Seulgi Park, Miseon Lee

注释 (Notes): mg/kg = ppm = 百万分之一 (parts per million)

≤ 小于 (Less than)
N.D. = 未检出 (Not detected (<MDL))
MDL = 报告限量值 (Method detection limit)
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</thead>
<tbody>
<tr>
<td>溴 (Bromine, Br)</td>
<td>mg/kg</td>
<td>参考 EN 14582, IC 测试定量</td>
<td>30</td>
<td>N.D.</td>
</tr>
<tr>
<td>氯 (Chlorine, Cl)</td>
<td>mg/kg</td>
<td>参考 EN 14582, IC 测试定量</td>
<td>30</td>
<td>N.D.</td>
</tr>
<tr>
<td>砷 (Arsenic, As)</td>
<td>mg/kg</td>
<td>参考 US EPA 3052, 酸消化法处理样品, ICP-OES 测试定量</td>
<td>2</td>
<td>N.D.</td>
</tr>
<tr>
<td>铍 (Beryllium, Be)</td>
<td>mg/kg</td>
<td>参考 US EPA 3052, 酸消化法处理样品, ICP-OES 测试定量</td>
<td>2</td>
<td>N.D.</td>
</tr>
<tr>
<td>锑 (Antimony, Sb)</td>
<td>mg/kg</td>
<td>参考 US EPA 3052, 酸消化法处理样品, ICP-OES 测试定量</td>
<td>2</td>
<td>N.D.</td>
</tr>
<tr>
<td>聚氯乙烯 (Polyvinyl chloride, PVC)</td>
<td>-</td>
<td>参考 KS K 0210-1, FT-IR 测试定量</td>
<td>N.A.</td>
<td>Negative</td>
</tr>
</tbody>
</table>

Tested by: Hyojoo Kim, Jooyeon Lee

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N.A. = 不适用 (Not applicable)
Negative = Undetectable
Positive = Detectable

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<tbody>
<tr>
<td>六溴环十二烷 (Hexabromocyclododecane, HBCDD)</td>
<td>mg/kg</td>
<td>参考 IEC 62321-1/490/CD, LC/MS 和 GC/MS 测试定量</td>
<td>10</td>
<td>N.D.</td>
</tr>
<tr>
<td>SCCP (Short-chain chlorinated paraffin)</td>
<td>mg/kg</td>
<td>参考 US EPA 3540C, 溶剂萃取法, LC/MS 和 GC/ECD 测试定量</td>
<td>100</td>
<td>N.D.</td>
</tr>
<tr>
<td>PCBs (Polychlorinated biphenyls)</td>
<td>mg/kg</td>
<td>参考 US EPA 3540C/8082, 溶剂萃取法, GC/MS 测试定量</td>
<td>5</td>
<td>N.D.</td>
</tr>
<tr>
<td>PCTs (Polychlorinated terphenyls)</td>
<td>mg/kg</td>
<td>参考 US EPA 3540C, 溶剂萃取法, GC/MS 测试定量</td>
<td>5</td>
<td>N.D.</td>
</tr>
<tr>
<td>PCNs (Polychlorinated naphthalenes)</td>
<td>mg/kg</td>
<td>参考 US EPA 3540C, 溶剂萃取法, GC/MS 测试定量</td>
<td>5</td>
<td>N.D.</td>
</tr>
<tr>
<td>PCP (Pentachlorophenol)</td>
<td>mg/kg</td>
<td>参考 ISO 17070, GC/MS 测试定量</td>
<td>5</td>
<td>N.D.</td>
</tr>
<tr>
<td>PFOA (Perfluorooctanoic acid)</td>
<td>mg/kg</td>
<td>参考 US EPA 3550C/8321B, 超声萃取法, LC/MS 或 LC/MS/MS 测试定量</td>
<td>0.1</td>
<td>N.D.</td>
</tr>
<tr>
<td>PFOS (Perfluorooctane sulfonate)</td>
<td>mg/kg</td>
<td>参考 US EPA 3550C/8321B, 超声萃取法, LC/MS 或 LC/MS/MS 测试定量</td>
<td>0.1</td>
<td>N.D.</td>
</tr>
</tbody>
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</thead>
<tbody>
<tr>
<td>邻苯二甲酸二丁酯 (Di-n-butyl phthalate, DBP)</td>
<td>84-74-2</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>N.D.</td>
</tr>
<tr>
<td>邻苯二甲酸二(2-乙基己基)酯 (Di(2-ethyl hexyl) phthalate, DEHP)</td>
<td>117-81-7</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>N.D.</td>
</tr>
<tr>
<td>邻苯二甲酸二辛酯 (Di-n-octyl phthalate, DNOP)</td>
<td>117-84-0</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>N.D.</td>
</tr>
<tr>
<td>邻苯二甲酸二异壬酯 (Diisononyl phthalate, DINP)</td>
<td>28553-12-0</td>
<td>mg/kg</td>
<td></td>
<td>100</td>
<td>N.D.</td>
</tr>
<tr>
<td>邻苯二甲酸二异癸酯 (Diisodecyl phthalate, DIDP)</td>
<td>26761-40-0</td>
<td>mg/kg</td>
<td></td>
<td>100</td>
<td>N.D.</td>
</tr>
<tr>
<td>邻苯二甲酸丁辛苯甲酯 (Benzyl butyl phthalate, BBP)</td>
<td>85-68-7</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>N.D.</td>
</tr>
<tr>
<td>邻苯二甲酸二异辛酯 (Dibutyl phthalate, DBP)</td>
<td>84-69-5</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>N.D.</td>
</tr>
<tr>
<td>苯甲酸甲酯 (Dimethyl phthalate, DMP)</td>
<td>131-11-3</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>N.D.</td>
</tr>
<tr>
<td>苯甲酸乙酯 (Diethyl phthalate, DEP)</td>
<td>84-66-2</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>N.D.</td>
</tr>
<tr>
<td>邻苯二甲酸二戊酯 (Di-n-pentyl phthalate, DPP)</td>
<td>131-18-0</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>N.D.</td>
</tr>
<tr>
<td>邻苯二甲酸二己酯 (Di-n-hexyl phthalate, DNHP)</td>
<td>84-75-3</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>N.D.</td>
</tr>
<tr>
<td>邻苯二甲酸二 C6-8 支链烷基酯 (CAS No. C7) (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich, DiHPh)</td>
<td>71888-89-6</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>N.D.</td>
</tr>
</tbody>
</table>

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<th>结果 (RESULT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-鄰苯二酸二(C7-11 支链与直链)烷酯 (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters, DHNUP)</td>
<td>68515-42-4</td>
<td>mg/kg</td>
<td>参考 IEC 62321-8 Edition 1.0 : 2017, 溶剂萃取法, 气相色谱/质谱联用仪</td>
<td>50</td>
<td>N.D.</td>
</tr>
<tr>
<td>邻苯二甲酸二甲氧乙酯 (Di(2-methoxyethyl) phthalate, DMEP)</td>
<td>117-82-8</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>N.D.</td>
</tr>
<tr>
<td>邻苯二甲酸二异戊酯 (Disopentylphthalate, DIPP)</td>
<td>605-50-5</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>N.D.</td>
</tr>
<tr>
<td>邻苯二甲酸正戊基异戊基酯 (N-pentyl-isopentylphthalate, NPIP)</td>
<td>776297-69-9</td>
<td>mg/kg</td>
<td></td>
<td>50</td>
<td>N.D.</td>
</tr>
</tbody>
</table>

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* 样品相片; -
(View of sample as received; -)

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样品名称(SAMPLE DESCRIPTION) : POWER INDUCTOR CIG TYPE

Flow Chart  
(IEC62321 Edition 1.0)
Receipt  
Sampling/ Grinding or Cutting  
Pb, Cd, Hg  
For different material, digest the sample with appropriate acid*1
Confirm the tested samples are totally dissolved*2
Make up with deionized water
Analyzed by ICP-OES  
PBBs /PBDEs  
Wtigh sample and add organic solvent  
Soxhlet extraction or solvent extraction  
Concentrate the extract and make up with organic solvent  
Analyzed by GC-MS  
Cr+++  
Get 50cm³ sample  
Boiling water extraction  
Make up with deionized water and add diphenyl-carbazide solution  
Analyzed by UV-VIS.

*1 : List of appropriate acid:

<table>
<thead>
<tr>
<th>Material</th>
<th>Acid added for digestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymers</td>
<td>HNO₃, HCl, HF, H₂O₂, H₃BO₃</td>
</tr>
<tr>
<td>Metals</td>
<td>HNO₃, HCl, HF</td>
</tr>
<tr>
<td>Electronics</td>
<td>HNO₃, HCl, H₂O₂, HBF₄</td>
</tr>
</tbody>
</table>

*2 : The samples were dissolved totally by pre-conditioning method according to above flow chart.

Remarks :

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Flow Chart (EN14582)

Receipt
Sample preparation
Sample weighing
Bomb preparation
Oxygen bomb combustion
Absorption solvent preparation of absorption solution
Collection of halides make up Vol. 100mL
Analyzed by IC
Data
Report

Cooling, for 1hr

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**Remarks**: The samples were dissolved totally by pre-conditioning method according to above flow chart.
Flow Chart (PVC)

1. Receipt
2. Sample preparation
3. Analyzed by FT-IR
4. PVC Characteristic peaks
   A. Broad band: 600~700 cm⁻¹
   B. Strong peak: 1250 cm⁻¹, 1330 cm⁻¹
   C. Strong peak: 1430 cm⁻¹
   D. Strong peak: 2900 cm⁻¹
5. Data
6. Report

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Flow Chart (HBCDD)

Receipt
Sample preparation
Extraction
Concentration
Clean up
Concentration
Analyzed by LC/MS and/or GC-MS
Data
Report

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Flow Chart (EPA 3540C)

1. Receipt
2. Sample preparation
3. Extraction
4. Concentration
5. Clean up
6. Concentration
7. Analyzed by GC-ECD or GC-MS or LC/MS or LC/MS/MS
8. Data
9. Report

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Flow Chart (PCB, PCT, PCN)

- Receipt
- Sample preparation
- Extraction
- Concentration
- Clean up
- Concentration
- Analyzed by GC-MS
- Data
- Report
Flow Chart (PCP)

- Receipt
- Sample preparation
  - Extraction
  - Concentration
  - Clean up
  - Concentration
  - Analyzed by GC-MS
  - Data
  - Report
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(测试报告件)

报告号(REPORT NO.)         : RT19R-S4740-049-C  日期(DATE) : 2019 年11月06日
样品编号(SAMPLE ID NO.)    : RT19R-S4740-049
样品名称(SAMPLE DESCRIPTION)    : POWER INDUCTOR CIG TYPE

Flow Chart (PFOS, PFOA)

Receipt
Sample preparation
Loading in a vial
Methanol loading
Ultrasonication
Filtering & Cleaning
Make up (Methanol)
Analyzed by LC/MS or LC/MS/MS
Data
Report

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Flow Chart (Phthalates)

Receipt

Sample preparation

Extraction

Concentration

Clean-up

Concentration

Analyzed by GC-MS

Data

Report

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