

## 检测报告

编号: EGZ2306150026C00105R

日期: 2023 年 06 月 27 日

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委托单位 : 上海庆科信息技术有限公司

地 址 : 上海市普陀区金沙江路 2145 弄 B 幢 9 楼

样品名称 : 嵌入式 Wi-Fi/BLE 模组

型 号 : EMC3090

客户参考信息 : EMC3090-P、EMC3090-E

供 应 商 : 上海庆科信息技术有限公司

接收日期 : 2023 年 06 月 16 日

检测日期 : 2023 年 06 月 16 日~2023 年 06 月 27 日

检测要求 : 根据客户要求, 对高度关注物质(SVHC)进行筛分测试:  
欧洲化学品管理局(ECHA)截止 2023 年 6 月 14 日公布的供授权审议的关于 REACH 第 1907/2006 号法规的高度关注物质候选清单中的 235 种物质。

检测结果 : 请参看随后页面。

总结:

根据指定范围和分析技术, 委托样品中高度关注物质(SVHC)的浓度均  $\leq 0.1\%$ (w/w)

合 格

谨代表  
广州信测标准技术服务有限公司

编 制:

龙玲芳

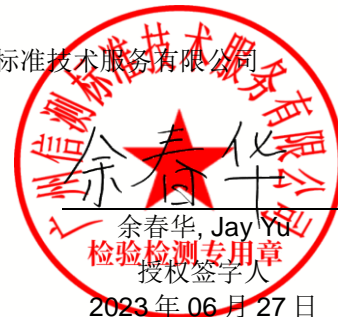
龙玲芳, Lynn  
助理工程师

审 核:

孙伟

孙伟, Ethan  
测试主管

签 发:

余春华, Jay Yu  
检验检测专用章  
授权签字人

2023 年 06 月 27 日

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**备注:**

- (1) 本报告所涉及的关于特定高度关注物质的化学分析是根据欧洲化学品管理署发布的下列文件, 利用现有的分析技术完成的:

<https://echa.europa.eu/candidate-list-table>

这些文件清单由欧洲化学品管理署评估, 将来会持续更新。

- (2) 关于物品:

欧盟第 1907/2006 (EC) 号法规第 33 条规定, 含有满足第 57 条中的标准并根据第 59 条第一款被确定且质量分数大于 0.1% 的物质的物品的所有供应商应向物品接受者提供其可获取的充足信息, 以使物品安全使用, 这些信息至少包括含有候选清单中物质的名称。

根据欧盟第 1907/2006 (EC) 号法规, 如果满足以下两个条件, 如果物质符合第 57 条中的标准并根据第 59 条第一款被确定, 物品的任何欧洲制造商或进口商应根据第 7 条第 4 款向欧盟化学品管理署进行通报: (a) 候选清单中的物质在物品中的总含量超过 1 吨/年/生产商或进口商; (b) 候选清单中的物质在物品中的总含量以质量分数计超过 0.1% 的浓度。

- (3) 关于物质和配制品:

如果样品中高度关注物质的浓度超过 0.1% (w/w) 和/或欧盟第 1272/2008 号 CLP 法规和欧盟委员会条例第 790/2009 号中设定的特殊浓度限值, 建议客户根据欧盟第 1907/2006 号 REACH 法规对有关高度关注物质准备安全数据表(SDS)以符合供应链传递信息的义务, 如:

- 根据欧盟第 1272/2008 号 CLP 法规被列为有害物质。
- 根据第 1272/2008 号 CLP 法规被列为危险混合物, 而其浓度大于或等于欧盟第 1272/2008 号 CLP 法规列出的分类限值; 或
- 根据欧盟第 1272/2008 号 CLP 法规并未列为危险混合物, 但包含: (a) 对人类健康或环境有害的物质, 而在固体或液体混合物(即非气体混合物)中其浓度 $\geq 0.1\%$  (w/w)或在气体混合物中占体积 $\geq 0.2\%$ ; 或(b) PBT 或 vPvB 物质, 在固体或液体混合物(即非气体混合物)中浓度 $\geq 0.1\%$  (w/w); 或授权审议的高度关注物质候选清单上的物质(除上述以外的原因)在非气体混合物中的浓度 $\geq 0.1\%$  (w/w); 或(d) 设有欧洲范围内工作场所接触限值的物质。

- (4) 如果物品中 SVHC 的测试结果超过报告限, 建议客户进一步定量分析检测含有 SVHC 的组分并且得到 SVHC 物质的准确浓度。



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## 样品清单:

| 序号 | 样品编号           | 样品名称             |
|----|----------------|------------------|
| 5  | E2306150026-05 | 嵌入式 Wi-Fi/BLE 模组 |

## 检测样品清单:

| 序号  | 样品描述  |
|-----|-------|
| 5.1 | 金属混测  |
| 5.2 | 非金属混测 |

备注: 样品 5.1 和 5.2 的测试是基于申请人要求混合测试, 报告中的混合测试结果不代表其中个别单一材质的含量。

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## 检测结果:

## SVHC 候选清单中的高度关注物质

测试方法: 依据 ASTM F2931-19 和内部方法 - 样品采用微波消解或溶剂进行萃取, 所得溶液经由 ICP-OES, GC-MS, IC, LC-MS, HPLC 和 UV 等仪器进行分析。

| 批次 | 序号 | 物质名称            | CAS No. | EC No. | RL(%) | 检测结果(%) |
|----|----|-----------------|---------|--------|-------|---------|
|    |    |                 |         |        |       | 5.1(混测) |
| -  | -  | 候选清单中所有被测的 SVHC | -       | -      | -     | ND      |

| 批次 | 序号 | 物质名称            | CAS No. | EC No. | RL(%) | 检测结果(%) |
|----|----|-----------------|---------|--------|-------|---------|
|    |    |                 |         |        |       | 5.2(混测) |
| -  | -  | 候选清单中所有被测的 SVHC | -       | -      | -     | ND      |

- 备注: (1) 上表仅显示检出的 SVHC, 低于 RL 的 SVHC 没有列出。所有测试的 SVHC 请参见附录。  
(2) RL = 报告极限值, 所有 RL 是基于均一材质的测试。  
ND = 未检出(低于 RL), ND 针对 SVHC 物质。  
(3) \* 测试结果是由选定的元素或标记物的结果并基于最坏的情况计算得出。硼化合物的结果由 ICP-OES 测试总硼(液体、粉末、膏状类样品)和水提取(其他样品)的硼元素结果换算得出。  
(4) 依据客户要求, 按组件/材料等比例进行混合测试, 并以最小样品重量来计算结果。  
(5) NA = 对该 SVHC 的特定被检元素进一步测试验证及客户提供的信息, 即使 SVHC 的存在不能完全被排除, 但该特定被检元素来自 SVHC 的可能性极小, 因此可假设被检测到的元素并非来自该 SVHC。

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## 附录: 所有测试的 SVHC

| 批次 | 序号 | 物质名称   | CAS No.   | EC No.                 | RL(%) |
|----|----|--|---|------------------------|-------|
| I  | 1  | 4,4'-二氨基二苯甲烷 (MDA)   | 101-77-9  | 202-974-4              | 0.010 |
| I  | 2  | 二甲苯麝香(MX)  | 81-15-2   | 201-329-4              | 0.010 |
| I  | 3  | 短链氯化石蜡(C10-13) (SCCP)  | 85535-84-8  | 287-476-5              | 0.010 |
| I  | 4  | 蒽  | 120-12-7  | 204-371-1              | 0.010 |
| I  | 5  | 邻苯二甲酸丁酯 (BBP)  | 85-68-7   | 201-622-7              | 0.010 |
| I  | 6  | 邻苯二甲酸二(2-乙基己)酯 (DEHP)  | 117-81-7  | 204-211-0              | 0.010 |
| I  | 7  | 氧化双三丁基锡 (TBTO)   | 56-35-9   | 200-268-0              | 0.010 |
| I  | 8  | 二氯化钴 *   | 7646-79-9   | 231-589-4              | 0.010 |
| I  | 9  | 五氧化二砷 *  | 1303-28-2   | 215-116-9              | 0.010 |
| I  | 10 | 三氧化二砷 *  | 1327-53-3   | 215-481-4              | 0.010 |
| I  | 11 | 邻苯二甲酸二丁酯 (DBP)   | 84-74-2   | 201-557-4              | 0.010 |
| I  | 12 | 六溴环十二烷 (HBCDD) 及其所有主要的非对映异构体 ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) | 25637-99-4<br>134237-50-6<br>134237-51-7<br>134237-52-8 | 247-148-4<br>221-695-9 | 0.010 |
| I  | 13 | 砷酸氢铅 *   | 7784-40-9   | 232-064-2              | 0.010 |
| I  | 14 | 重铬酸钠 *   | 10588-01-9<br>7789-12-0                                 | 234-190-3              | 0.010 |
| I  | 15 | 三乙基砷酸酯 *   | 15606-95-8  | 427-700-2              | 0.010 |
| II | 16 | 丙烯酰胺   | 79-06-1   | 201-173-7              | 0.010 |
| II | 17 | 2,4-二硝基甲苯  | 121-14-2  | 204-450-0              | 0.010 |
| II | 18 | 葱油   | 90640-80-5  | 292-602-7              | 0.010 |
| II | 19 | 葱油, 葱糊   | 90640-81-6  | 292-603-2              | 0.010 |
| II | 20 | 葱油, 葱糊, 葱馏分  | 91995-15-2  | 295-275-9              | 0.010 |
| II | 21 | 葱油, 葱糊, 轻油   | 91995-17-4  | 295-278-5              | 0.010 |
| II | 22 | 葱油, 含葱量少   | 90640-82-7  | 292-604-8              | 0.010 |
| II | 23 | 邻苯二甲酸二异丁酯 (DIBP)   | 84-69-5   | 201-553-2              | 0.010 |
| II | 24 | 铬酸铅(铬黄) *  | 7758-97-6   | 231-846-0              | 0.010 |
| II | 25 | 钼铬红 (C.I.颜料红 104) *  | 12656-85-8  | 235-759-9              | 0.010 |
| II | 26 | 铅铬黄 (C.I.颜料黄 34) *   | 1344-37-2   | 215-693-7              | 0.010 |
| II | 27 | 高温煤焦油沥青  | 65996-93-2  | 266-028-2              | 0.010 |

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| 批次  | 序号 | 物质名称                           | CAS No.                              | EC No.                 | RL(%) |
|-----|----|--------------------------------|--------------------------------------|------------------------|-------|
| II  | 28 | 磷酸三(2-氯乙基)酯 (TCEP)             | 115-96-8                             | 204-118-5              | 0.010 |
| III | 29 | 重铬酸铵 *                         | 7789-09-5                            | 232-143-1              | 0.010 |
| III | 30 | 硼酸 *                           | 11113-50-1<br>10043-35-3             | 233-139-2<br>234-343-4 | 0.010 |
| III | 31 | 无水四硼酸钠 *                       | 12179-04-3<br>1303-96-4<br>1330-43-4 | 215-540-4              | 0.010 |
| III | 32 | 铬酸钾 *                          | 7789-00-6                            | 232-140-5              | 0.010 |
| III | 33 | 重铬酸钾 *                         | 7778-50-9                            | 231-906-6              | 0.010 |
| III | 34 | 铬酸钠 *                          | 7775-11-3                            | 231-889-5              | 0.010 |
| III | 35 | 七水合四硼酸钠 *                      | 12267-73-1                           | 235-541-3              | 0.010 |
| III | 36 | 三氯乙烯                           | 79-01-6                              | 201-167-4              | 0.010 |
| IV  | 37 | 2-乙氧基乙醇                        | 110-80-5                             | 203-804-1              | 0.010 |
| IV  | 38 | 2-甲氧基乙醇                        | 109-86-4                             | 203-713-7              | 0.010 |
| IV  | 39 | 铬酸, 重铬酸, 及其低聚铬酸 *              | 7738-94-5<br>13530-68-2              | 231-801-5<br>236-881-5 | 0.010 |
| IV  | 40 | 三氧化铬 *                         | 1333-82-0                            | 215-607-8              | 0.010 |
| IV  | 41 | 碳酸钴(II) *                      | 513-79-1                             | 208-169-4              | 0.010 |
| IV  | 42 | 乙酸钴(II) *                      | 71-48-7                              | 200-755-8              | 0.010 |
| IV  | 43 | 硝酸钴(II) *                      | 10141-05-6                           | 233-402-1              | 0.010 |
| IV  | 44 | 硫酸钴(II) *                      | 10124-43-3                           | 233-334-2              | 0.010 |
| V   | 45 | 1,2,3-三氯丙烷                     | 96-18-4                              | 202-486-1              | 0.010 |
| V   | 46 | 邻苯二甲酸二(C6-8支链)烷基酯(富C7链) (DIHP) | 71888-89-6                           | 276-158-1              | 0.010 |
| V   | 47 | 邻苯二甲酸二(C7-11支链与直链)烷基酯 (DHNUP)  | 68515-42-4                           | 271-084-6              | 0.010 |
| V   | 48 | 1-甲基-2-吡咯烷酮 (NMP)              | 872-50-4                             | 212-828-1              | 0.010 |
| V   | 49 | 乙二醇乙醚醋酸酯                       | 111-15-9                             | 203-839-2              | 0.010 |
| V   | 50 | 肼                              | 302-01-2<br>7803-57-8                | 206-114-9              | 0.010 |
| V   | 51 | 铬酸铈 *                          | 7789-06-2                            | 232-142-6              | 0.010 |
| VI  | 52 | 1,2-二氯乙烷                       | 107-06-2                             | 203-458-1              | 0.010 |
| VI  | 53 | 4,4'-二氨基-3,3'-二氯二苯甲烷 (MOCA)    | 101-14-4                             | 202-918-9              | 0.010 |
| VI  | 54 | 邻甲氧基苯胺                         | 90-04-0                              | 201-963-1              | 0.010 |
| VI  | 55 | 对特辛基苯酚                         | 140-66-9                             | 205-426-2              | 0.010 |

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|------|----|---------------------------------------|------------|-----------|-------|
| VI   | 56 | 硅酸铝耐火陶瓷纤维 *                           | -          | -         | 0.010 |
| VI   | 57 | 砷酸、原砷酸 *                              | 7778-39-4  | 231-901-9 | 0.010 |
| VI   | 58 | 乙二醇二甲醚                                | 111-96-6   | 203-924-4 | 0.010 |
| VI   | 59 | 邻苯二甲酸二甲氧基乙酯                           | 117-82-8   | 204-212-6 | 0.010 |
| VI   | 60 | 砷酸钙 *                                 | 7778-44-1  | 231-904-5 | 0.010 |
| VI   | 61 | 铬酸铬 *                                 | 24613-89-6 | 246-356-2 | 0.010 |
| VI   | 62 | 甲醛与苯胺的低聚物                             | 25214-70-4 | 500-036-1 | 0.010 |
| VI   | 63 | 迭氮化铅 *                                | 13424-46-9 | 236-542-1 | 0.010 |
| VI   | 64 | 苦味酸铅 *                                | 6477-64-1  | 229-335-2 | 0.010 |
| VI   | 65 | 2,4,6-三硝基苯二酚铅(史蒂芬酸铅) *                | 15245-44-0 | 239-290-0 | 0.010 |
| VI   | 66 | N,N-二甲基乙酰胺 (DMAC)                     | 127-19-5   | 204-826-4 | 0.010 |
| VI   | 67 | 氢氧化铬酸锌(锌黄) *                          | 49663-84-5 | 256-418-0 | 0.010 |
| VI   | 68 | 酚酞                                    | 77-09-8    | 201-004-7 | 0.010 |
| VI   | 69 | 氢氧化铬酸锌钾 *                             | 11103-86-9 | 234-329-8 | 0.010 |
| VI   | 70 | 砷酸铅 *                                 | 3687-31-8  | 222-979-5 | 0.010 |
| VI   | 71 | 氧化锆硅酸铝耐火陶瓷纤维 *                        | -          | -         | 0.010 |
| VII  | 72 | 三甘醇二甲醚(TEGDME)                        | 112-49-2   | 203-977-3 | 0.010 |
| VII  | 73 | 乙二醇二甲醚(EGDME)                         | 110-71-4   | 203-794-9 | 0.010 |
| VII  | 74 | 异氰尿酸三缩水甘油酯 (TGIC)                     | 2451-62-9  | 219-514-3 | 0.010 |
| VII  | 75 | 异氰尿酸 $\beta$ -三缩水甘油酯 ( $\beta$ -TGIC) | 59653-74-6 | 423-400-0 | 0.010 |
| VII  | 76 | 4,4'-二(二甲氨基)-4"-甲氨基三苯甲醇               | 561-41-1   | 209-218-2 | 0.010 |
| VII  | 77 | 4,4'-双(二甲氨基)二苯酮 (米氏酮)                 | 90-94-8    | 202-027-5 | 0.010 |
| VII  | 78 | C.I.碱性紫 3                             | 548-62-9   | 208-953-6 | 0.010 |
| VII  | 79 | C.I.碱性蓝 26                            | 2580-56-5  | 219-943-6 | 0.010 |
| VII  | 80 | 三氧化二硼 *                               | 1303-86-2  | 215-125-8 | 0.010 |
| VII  | 81 | 甲酰胺                                   | 75-12-7    | 200-842-0 | 0.010 |
| VII  | 82 | 甲基磺酸铅(II) *                           | 17570-76-2 | 401-750-5 | 0.010 |
| VII  | 83 | N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(米氏碱)       | 101-61-1   | 202-959-2 | 0.010 |
| VII  | 84 | C.I.溶剂蓝 4                             | 6786-83-0  | 229-851-8 | 0.010 |
| VIII | 85 | 邻苯二甲酸戊基异戊酯                            | 84777-06-0 | 284-032-2 | 0.010 |
| VIII | 86 | 乙二醇二乙醚                                | 629-14-1   | 211-076-1 | 0.010 |
| VIII | 87 | 1-溴丙烷                                 | 106-94-5   | 203-445-0 | 0.010 |

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|------|-----|--|--|---|-------|
| VIII | 88  | 3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷                         | 143860-04-2  | 421-150-7   | 0.010 |
| VIII | 89  | 4,4'-二氨基-3,3'-二甲基二苯甲烷                                | 838-88-0   | 212-658-8   | 0.010 |
| VIII | 90  | 4,4'-二氨基二苯醚及其盐                                       | 101-80-4   | 202-977-0   | 0.010 |
| VIII | 91  | 对特辛基苯酚乙氧基醚   | -  | -   | 0.010 |
| VIII | 92  | 4-氨基偶氮苯  | 60-09-3  | 200-453-6   | 0.010 |
| VIII | 93  | 2,4-二氨基甲苯  | 95-80-7  | 202-453-1   | 0.010 |
| VIII | 94  | 4-壬基(支链与直链)苯酚  | -  | -   | 0.010 |
| VIII | 95  | 2-甲氧基-5-甲基苯胺   | 120-71-8   | 204-419-1   | 0.010 |
| VIII | 96  | 二盐基邻苯二甲酸铅 *  | 69011-06-9   | 273-688-5   | 0.010 |
| VIII | 97  | 碱式乙酸铅 *  | 51404-69-4   | 257-175-3   | 0.010 |
| VIII | 98  | 4-氨基联苯   | 92-67-1  | 202-177-1   | 0.010 |
| VIII | 99  | 十溴联苯醚(DecaBDE)                                       | 1163-19-5  | 214-604-9   | 0.010 |
| VIII | 100 | 1,2-环己二甲酸酯酐<br>顺式-1,2-环己二甲酸酯酐<br>反式-1,2-环己二甲酸酯酐      | 85-42-7<br>13149-00-3<br>14166-21-3                  | 201-604-9<br>236-086-3<br>238-009-9               | 0.010 |
| VIII | 101 | 偶氮二甲酰胺(ADCA)   | 123-77-3   | 204-650-8   | 0.010 |
| VIII | 102 | 二丁基二氯化锡(DBTC)  | 683-18-1   | 211-670-0   | 0.010 |
| VIII | 103 | 硫酸二乙酯  | 64-67-5  | 200-589-6   | 0.010 |
| VIII | 104 | 邻苯二甲酸二异戊酯 (DIPP)                                     | 605-50-5   | 210-088-4   | 0.010 |
| VIII | 105 | 硫酸二甲酯  | 77-78-1  | 201-058-1   | 0.010 |
| VIII | 106 | 地乐酚  | 88-85-7  | 201-861-7   | 0.010 |
| VIII | 107 | 双(十八烷基)氧代三铅 *  | 12578-12-0   | 235-702-8   | 0.010 |
| VIII | 108 | C16-18-脂肪酸铅盐 *                                       | 91031-62-8   | 292-966-7   | 0.010 |
| VIII | 109 | 呋喃   | 110-00-9   | 203-727-3   | 0.010 |
| VIII | 110 | 全氟十一烷酸   | 2058-94-8  | 218-165-4   | 0.010 |
| VIII | 111 | 全氟十四烷酸   | 376-06-7   | 206-803-4   | 0.010 |
| VIII | 112 | 甲基六氢邻苯二甲酸酐<br>3-甲基六氢苯二甲酯酐<br>4-甲基六氢苯酐<br>甲基六氢化邻苯二甲酸酐 | 25550-51-0<br>57110-29-9<br>19438-60-9<br>48122-14-1 | 25550-51-0<br>260-566-1<br>243-072-0<br>256-356-4 | 0.010 |
| VIII | 113 | 四氟硼酸铅 *  | 13814-96-5   | 237-486-0   | 0.010 |
| VIII | 114 | 氨基氰铅盐 *  | 20837-86-9   | 244-073-9   | 0.010 |

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| 批次   | 序号  | 物质名称                | CAS No.     | EC No.    | RL(%) |
|------|-----|---------------------|-------------|-----------|-------|
| VIII | 115 | 硝酸铅 *               | 10099-74-8  | 233-245-9 | 0.010 |
| VIII | 116 | 一氧化铅 *              | 1317-36-8   | 215-267-0 | 0.010 |
| VIII | 117 | 碱式硫酸铅 *             | 12036-76-9  | 234-853-7 | 0.010 |
| VIII | 118 | 钛酸铅 *               | 12060-00-3  | 235-038-9 | 0.010 |
| VIII | 119 | 钛酸铅锆 *              | 12626-81-2  | 235-727-4 | 0.010 |
| VIII | 120 | 甲氧基乙酸               | 625-45-6    | 210-894-6 | 0.010 |
| VIII | 121 | 1,2-环氧丙烷            | 75-56-9     | 200-879-2 | 0.010 |
| VIII | 122 | N,N-二甲基甲酰胺 (DMF)    | 68-12-2     | 200-679-5 | 0.010 |
| VIII | 123 | N-甲基乙酰胺             | 79-16-3     | 201-182-6 | 0.010 |
| VIII | 124 | 邻苯二甲酸正戊基异戊基酯 (iPnP) | 776297-69-9 | -         | 0.010 |
| VIII | 125 | 邻-氨基偶氮甲苯            | 97-56-3     | 202-591-2 | 0.010 |
| VIII | 126 | 2-氨基甲苯              | 95-53-4     | 202-429-0 | 0.010 |
| VIII | 127 | 四氧化三铅 *             | 1314-41-6   | 215-235-6 | 0.010 |
| VIII | 128 | 全氟十三烷酸              | 72629-94-8  | 276-745-2 | 0.010 |
| VIII | 129 | 硫酸四氧化五铅 *           | 12065-90-6  | 235-067-7 | 0.010 |
| VIII | 130 | 铅锑黄 *               | 8012-00-8   | 232-382-1 | 0.010 |
| VIII | 131 | 掺杂铅的硅酸钡 *           | 68784-75-8  | 272-271-5 | 0.010 |
| VIII | 132 | 硅酸铅 *               | 11120-22-2  | 234-363-3 | 0.010 |
| VIII | 133 | 二碱式亚硫酸铅 *           | 62229-08-7  | 263-467-1 | 0.010 |
| VIII | 134 | 四乙基铅 *              | 78-00-2     | 201-075-4 | 0.010 |
| VIII | 135 | 硫酸三氧化四铅(三碱式硫酸铅) *   | 12202-17-4  | 235-380-9 | 0.010 |
| VIII | 136 | 全氟十二烷酸              | 307-55-1    | 206-203-2 | 0.010 |
| VIII | 137 | 碱式碳酸铅 *             | 1319-46-6   | 215-290-6 | 0.010 |
| VIII | 138 | 二碱式亚磷酸铅 *           | 12141-20-7  | 235-252-2 | 0.010 |
| IX   | 139 | 4-壬基(支链与直链)苯酚乙氧基醚   | -           | -         | 0.010 |
| IX   | 140 | 全氟辛酸铵(APFO)         | 3825-26-1   | 223-320-4 | 0.010 |
| IX   | 141 | 镉 *                 | 7440-43-9   | 231-152-8 | 0.010 |
| IX   | 142 | 氧化镉 *               | 1306-19-0   | 215-146-2 | 0.010 |
| IX   | 143 | 邻苯二甲酸二正戊酯(DPP)      | 131-18-0    | 205-017-9 | 0.010 |
| IX   | 144 | 全氟辛酸(PFOA)          | 335-67-1    | 206-397-9 | 0.010 |
| X    | 145 | 硫化镉(镉黄) *           | 1306-23-6   | 215-147-8 | 0.010 |
| X    | 146 | 邻苯二甲酸二正己酯 (DNHP)    | 84-75-3     | 215-147-8 | 0.010 |

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|------|-----|---|-------------------------------------|---------------------|-------|
| X    | 147 | C.I.直接红28   | 573-58-0                            | 209-358-4           | 0.010 |
| X    | 148 | C.I.直接黑 38  | 1937-37-7                           | 217-710-3           | 0.010 |
| X    | 149 | 2-巯基咪唑啉   | 96-45-7                             | 202-506-9           | 0.010 |
| X    | 150 | 乙酸铅 *   | 301-04-2                            | 206-104-4           | 0.010 |
| X    | 151 | 磷酸三(二甲苯)酯   | 25155-23-1                          | 246-677-8           | 0.010 |
| XI   | 152 | 邻苯二甲酸二(支链与直链)己基酯  | 68515-50-4                          | 271-093-5           | 0.010 |
| XI   | 153 | 氯化镉 *   | 10108-64-2                          | 233-296-7           | 0.010 |
| XI   | 154 | 水合过硼酸钠 *  | -                                   | -                   | 0.010 |
| XI   | 155 | 过硼酸钠 *  | 7632-04-4                           | 231-556-4           | 0.010 |
| XII  | 156 | 2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚(UV-328)  | 25973-55-1                          | 247-384-8           | 0.010 |
| XII  | 157 | 2-苯并三唑-2-基-4,6-二叔丁基苯酚(UV-320)   | 3846-71-7                           | 223-346-6           | 0.010 |
| XII  | 158 | 二正辛基-双(2-乙基己基巯基乙酸酯)锡(DOTE)  | 15571-58-1                          | 239-622-4           | 0.010 |
| XII  | 159 | 氟化镉 *   | 7790-79-6                           | 232-222-0           | 0.010 |
| XII  | 160 | 硫酸镉 *   | 10124-36-4,<br>31119-53-6           | 233-331-6           | 0.010 |
| XII  | 161 | 二正辛基-双(2-乙基己基巯基乙酸酯)锡(DOTE)和单辛基-三(2-乙基己基巯基乙酸酯)锡(MOTE)的反应物  | -                                   | -                   | 0.010 |
| XIII | 162 | 1,2-苯二甲酸, 二(C6-10)烷基酯/ 1,2-苯二甲酸, 混合二己二辛二癸酯, 其中邻苯二甲酸二己酯含量≥0.3%   | 68515-51-5                          | 271-094-0           | 0.010 |
| XIII | 163 | 5-二叔丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1], 5-二叔丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] [任何[1]和[2]或者其任意组合的单独异构体或其任何组合] | -                                   | -                   | 0.010 |
| XIV  | 164 | 1,3-丙磺酸内酯   | 1120-71-4                           | 214-317-9           | 0.010 |
| XIV  | 165 | 2,4-二叔丁基-6-(5-氯苯并三唑-2-基)苯酚(UV-327)  | 3864-99-1                           | 223-383-8           | 0.010 |
| XIV  | 166 | 2-(2H-苯并三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚(UV-350)   | 36437-37-3                          | 253-037-1           | 0.010 |
| XIV  | 167 | 硝基苯   | 98-95-3                             | 202-716-0           | 0.010 |
| XIV  | 168 | 全氟壬酸及其钠盐和铵盐   | 375-95-1<br>21049-39-8<br>4149-60-4 | 206-801-3<br>-<br>- | 0.010 |
| XV   | 169 | 苯并[a]芘  | 50-32-8                             | 200-028-5           | 0.010 |
| XVI  | 170 | 4,4'-异亚丙基二酚(双酚 A)   | 80-05-7                             | 201-245-8           | 0.010 |

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|-------|-----|--|------------------------------------|-----------------------------|-------|
| XVI   | 171 | 全氟癸酸(PFDA)及其钠盐和铵盐  | 335-76-2<br>3830-45-3<br>3108-42-7 | 206-400-3<br>-<br>221-470-5 | 0.010 |
| XVI   | 172 | 4-庚基苯酚, 支链和直链  | -                                  | -                           | 0.010 |
| XVI   | 173 | 4-(1,1-二甲基丙基)苯酚或 4-叔戊基苯酚(PTAP)   | 80-46-6                            | 201-280-9                   | 0.010 |
| XVII  | 174 | 全氟己基磺酸及其盐类(PFHxS)  | -                                  | -                           | 0.010 |
| XVIII | 175 | 苯并[a]蒽   | 56-55-3                            | 200-280-6                   | 0.010 |
| XVIII | 176 | 碳酸镉 *  | 513-78-0                           | 208-168-9                   | 0.010 |
| XVIII | 177 | 氢氧化镉 *   | 21041-95-2                         | 244-168-5                   | 0.010 |
| XVIII | 178 | 硝酸镉 *  | 10325-94-7                         | 233-710-6                   | 0.010 |
| XVIII | 179 | 镉  | 218-01-9                           | 205-923-4                   | 0.010 |
| XVIII | 180 | 1,6,7,8,9,14,15,16,17,17,18,18-十二氯五环<br>[12.2.1.1 <sup>6,9</sup> .0 <sup>2,13</sup> .0 <sup>5,10</sup> ]十八碳-7,15-二烯(“德克隆”TM)[包<br>括所有反式和顺式异构体及其组合] | -                                  | -                           | 0.010 |
| XVIII | 181 | 1,3,4-噻二唑烷-2,5-二硫酮, 甲醛和 4-庚基苯酚的支链<br>和直链(RP-HP)的反应产物[4-庚基苯酚, 支链和直链含<br>量≥0.1%w / w]  | -                                  | -                           | 0.010 |
| XIX   | 182 | 八甲基环四硅氧烷(D4)   | 556-67-2                           | 209-136-7                   | 0.010 |
| XIX   | 183 | 十甲基环五硅氧烷(D5)   | 541-02-6                           | 208-764-9                   | 0.010 |
| XIX   | 184 | 十二甲基环六硅氧烷(D6)  | 540-97-6                           | 208-762-8                   | 0.010 |
| XIX   | 185 | 铅 *  | 7439-92-1                          | 231-100-4                   | 0.010 |
| XIX   | 186 | 八硼酸二钠 *  | 12008-41-2                         | 234-541-0                   | 0.010 |
| XIX   | 187 | 苯并[g,h,i]芘   | 191-24-2                           | 205-883-8                   | 0.010 |
| XIX   | 188 | 氯化三联苯  | 61788-32-7                         | 262-967-7                   | 0.010 |
| XIX   | 189 | 乙二胺(EDA)   | 107-15-3                           | 203-468-6                   | 0.010 |
| XIX   | 190 | 苯-1,2,4-三羧酸 1,2-酐(偏苯三酸酐)(TMA)  | 552-30-7                           | 209-008-0                   | 0.010 |
| XIX   | 191 | 邻苯二甲酸二环己酯(DCHP)  | 84-61-7                            | 201-545-9                   | 0.010 |
| XX    | 192 | 2,2-双(4'-羟基苯基)-4-甲基戊烷  | 6807-17-6                          | 401-720-1                   | 0.010 |
| XX    | 193 | 苯并[k]荧蒽  | 207-08-9                           | 205-916-6                   | 0.010 |
| XX    | 194 | 荧蒽   | 206-44-0                           | 205-912-4                   | 0.010 |
| XX    | 195 | 菲  | 85-01-8                            | 201-581-5                   | 0.010 |
| XX    | 196 | 芘  | 129-00-0                           | 204-927-3                   | 0.010 |

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|-------|-----|---|---|--|-------|
| XX    | 197 | 1,7,7-三甲基-3-(苯基亚甲基)双环[2.2.1]庚烷-2-酮<br>(3-亚苄基樟脑; 3-BC)   | 15087-24-8                                      | 239-139-9                                | 0.010 |
| XXI   | 198 | 2,3,3,3-四氟-2-(七氟丙氧基)丙酸, 其盐类和酰卤(包括它们各自的异构体及其组合)(HFPO-DA)   | -   | -  | 0.010 |
| XXI   | 199 | 2-甲氧基乙基乙酸酯  | 110-49-6  | 203-772-9                                | 0.010 |
| XXI   | 200 | 4-叔丁基苯酚   | 98-54-4   | 202-679-0                                | 0.010 |
| XXI   | 201 | 三(壬基苯基, 支链和直链)亚磷酸酯(TNPP), 含有<br>≥0.1% w/w 的 4-壬基酚, 支链和直链(4-NP)  | -   | -  | 0.010 |
| XXII  | 202 | 2-苄基-2-二甲基氨基-1-(4-吗啉苯基)丁酮   | 119313-12-1                                     | 404-360-3                                | 0.010 |
| XXII  | 203 | 2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮   | 71868-10-5                                      | 400-600-6                                | 0.010 |
| XXII  | 204 | 邻苯二甲酸二异己酯   | 71850-09-4                                      | 276-090-2                                | 0.010 |
| XXII  | 205 | 全氟丁烷磺酸(PFBS)及其盐类  | -   | -  | 0.010 |
| XXIII | 206 | 1-乙烯基咪唑   | 1072-63-5                                       | 214-012-0                                | 0.010 |
| XXIII | 207 | 2-甲基咪唑  | 693-98-1  | 211-765-7                                | 0.010 |
| XXIII | 208 | 4-羟基苯甲酸丁酯   | 94-26-8   | 202-318-7                                | 0.010 |
| XXIII | 209 | 二正丁基双(乙酰丙酮基)锡   | 22673-19-4                                      | 245-152-0                                | 0.010 |
| XXIV  | 210 | 双(2-(2-甲氧基乙氧基)乙基)醚  | 143-24-8  | 205-594-7                                | 0.010 |
| XXIV  | 211 | 二月桂酸二辛基锡, 锡烷, 二辛基-双(椰油酰氧基)衍生物, 以及任何其他锡烷基锡, 二辛基-, 双(脂肪酰氧基)衍生物。其中 C12 是脂肪酰氧基部分的主要碳原子数   | 3648-18-8<br>91648-39-4                         | 222-883-3<br>293-901-5                   | 0.010 |
| XXV   | 212 | 1,4-二恶烷   | 123-91-1  | 204-661-8                                | 0.010 |
| XXV   | 213 | 2,3-dibromo-1-propanol (2,3-DBPA)<br>2,2-双(溴甲基)-1,3-丙二醇 (BMP)<br>2,2-二甲基丙烷-1-醇, 三溴衍生物/ 3-溴-2,2-双(溴甲基)-1-丙醇(TBNPA)<br>2,3-二溴-1-丙醇 (2,3-DBPA) | 3296-90-0<br>36483-57-5<br>1522-92-5<br>96-13-9 | 221-967-7<br>253-057-0<br>-<br>202-480-9 | 0.010 |
| XXV   | 214 | 2-(4-叔丁基苯基)丙醛及其立体异构体  | -   | -  | 0.010 |
| XXV   | 215 | 4,4'-(1-甲基亚丙基)双酚; (双酚 B)  | 77-40-7   | 201-025-1                                | 0.010 |
| XXV   | 216 | 戊二醛   | 111-30-8  | 203-856-5                                | 0.010 |
| XXV   | 217 | 中链氯化石蜡 (MCCP) [UVCB 物质, 由 ≥80% 的直链氯化烷烃组成, 碳链长度在 C14 到 C17 之间]   | -   | -  | 0.010 |
| XXV   | 218 | 原硼酸, 钠盐   | 13840-56-7                                      | 237-560-2                                | 0.010 |
| XXV   | 219 | 来自低聚反应的具有 C12 富集的支链或直链烷基链的苯酚烷基化产物(主要在对位), 涵盖任何单独的异构体和/或其组合(PDDP)  | -   | -  | 0.010 |

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| 批次     | 序号  | 物质名称  | CAS No.     | EC No.    | RL(%) |
|--------|-----|---|-------------|-----------|-------|
| XXVI   | 220 | (±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]二环[2.2.1]庚-2-酮包括各个异构体和/或其组合(4-MBC)                   | -           | -         | 0.010 |
| XXVI   | 221 | 2,2'-亚甲基双-(4-甲基-6-叔丁基苯酚)  | 119-47-1    | 204-327-1 | 0.010 |
| XXVI   | 222 | S-S-(三环[5.2.1.0' 2,6]癸-3-烯-8(或9)基) O-(异丙基或异丁基或2-乙基己基) O-(异丙基或异丁基或2-乙基己基)二硫代磷酸酯    | 255881-94-8 | 401-850-9 | 0.010 |
| XXVI   | 223 | 乙烯基三(2-甲氧基乙氧基)硅烷  | 1067-53-4   | 213-934-0 | 0.010 |
| XXVII  | 224 | N-羟甲基丙烯酰胺   | 924-42-5    | 213-103-2 | 0.010 |
| XXVIII | 225 | 1,2-二(2,4,6-三溴苯氧基)乙烷  | 37853-59-1  | 253-692-3 | 0.010 |
| XXVIII | 226 | 四溴双酚 A  | 79-94-7     | 201-236-9 | 0.010 |
| XXVIII | 227 | 双酚 S  | 80-09-1     | 201-250-5 | 0.010 |
| XXVIII | 228 | 偏硼酸钡  | 13701-59-2  | 237-222-4 | 0.010 |
| XXVIII | 229 | 四溴邻苯二甲酸双(2-乙基己基)酯, 包括其每个异构体和/或它们的组合   | -           | -         | 0.010 |
| XXVIII | 230 | 4-羟基苯甲酸 2-甲基丙酯  | 4247-02-3   | 224-208-8 | 0.010 |
| XXVIII | 231 | 三聚氰胺  | 108-78-1    | 203-615-4 | 0.010 |
| XXVIII | 232 | 全氟庚酸及其盐类  | -           | -         | 0.010 |
| XXVIII | 233 | 2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙-2-基)吗啉和2,2,3,3,5,5,6,6-八氟-4-(七氟丙基)吗啉的反应产物 | -           | 473-390-7 | 0.010 |
| XXIX   | 234 | 二苯基(2,4,6-三甲基苯甲酰基)氧化膦   | 75980-60-8  | 278-355-8 | 0.010 |
| XXIX   | 235 | 4,4'-二氯二苯砜  | 80-07-9     | 201-247-9 | 0.010 |

Test results are only responsible for delivered samples. This test report is issued by the company and is intended for your exclusive use. This test report includes all of the testes requested by you and the results thereof based upon the information that you provided. You have 30 days from data of issuance of this test report to notify us of any error or omission caused by our negligence. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.





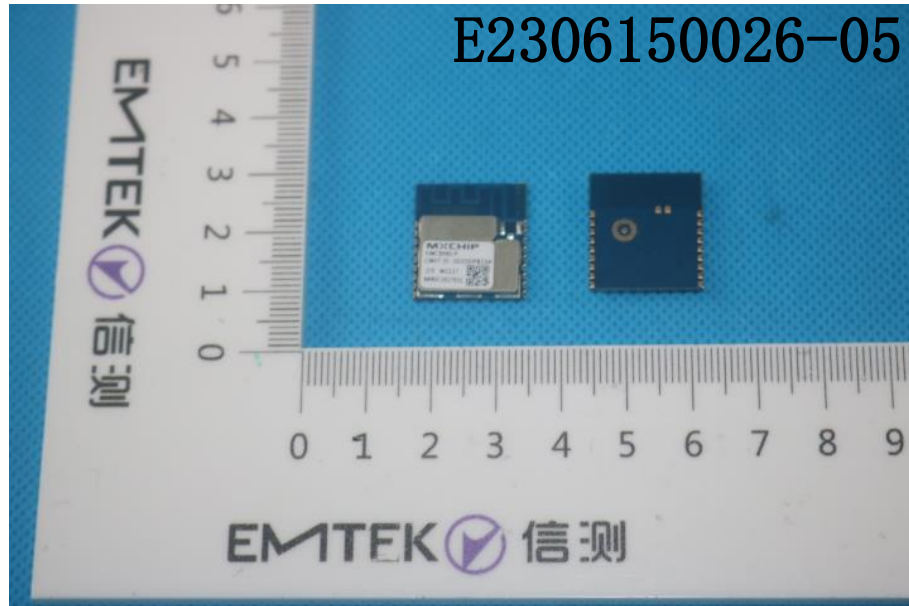
# 检测报告

编号: EGZ2306150026C00105R

日期: 2023 年 06 月 27 日

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样品照片:



\*\*\* 报告结束 \*\*\*

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# 检测报告

编号: EGZ2306150026C00105R

日期: 2023 年 06 月 27 日

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1. 本检测报告首页所列信息中除样品来源、接样日期、检测日期、检测结果和检测结论外, 均由委托方提供, 委托方对样品的代表性和资料的真实性负责, 本实验室不承担任何相关责任。  
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3. 除非相关政府部门、法律或法院要求，否则未经公司预先书面同意，本公司毋庸，也并无义务到法院对有关报告作证。  
The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. 如果本公司确定报告被不当地使用，本公司保留撤回报告的权利，并有权要求其它适当的额外赔偿。  
In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. 本公司接受样品进行测试的前提是，该测试报告不能作为针对本公司法律行动的依据。  
Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. 如因使用本公司中心任何报告内的资料，或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害，本公司概不负责。  
The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. 若需要在法院审理程序或者仲裁过程中使用测试报告，客户必须在提交测试样品前将该意图告知本公司。  
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8. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的，检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限，数据和信息将被处理掉。任何情况下，本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害，本公司在任何情况下也不必承担任何损害，包括（但不限于）补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权（包括疏忽）、产品责任或其他原因的惩罚性损害。  
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