

国环立宏检测  
GUOHUAN LIHONG DETECTION

W20220158

181512050179

# 检测报告

国环立宏【委】字(2022)第0158号

项目名称: 地下水检测

委托单位: 淄博绿能新能源有限公司

受检单位: 淄博绿能新能源有限公司

检测类别: 委托检测



山东国环立宏检测有限公司

二〇二二年六月二十二日

## 检测报告

国环立宏【委】字(2022)第 0158 号

第 1 页 共 3 页

|                                                                                                                                                      |                |           |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|----------------|
| 委托单位                                                                                                                                                 | 淄博绿能新能源有限公司    |           |                |
| 受检单位                                                                                                                                                 | 淄博绿能新能源有限公司    |           |                |
| 受检单位地址                                                                                                                                               | 临淄敬仲镇李家村       | 样品类别      | 地下水            |
| 采样人                                                                                                                                                  | 聂放、张宸赫         | 生产负荷      | /              |
| 检测点位示意图                                                                                                                                              | /              | 检测依据及主要仪器 | 见第 2-3 页       |
| 采样日期                                                                                                                                                 | 2022.05.20     | 完成日期      | 2022.06.02     |
| 样品名称                                                                                                                                                 | 样品状态           |           | 样品数量           |
| 地下水                                                                                                                                                  | 无色清澈液体         |           | 27 瓶           |
| 检测结果                                                                                                                                                 | 地下水检测结果见第 3 页。 |           |                |
| 检测结论                                                                                                                                                 | 不作评价。          |           |                |
| 现场环境                                                                                                                                                 | 温度: /          |           | 大气压: /         |
| 实验室环境                                                                                                                                                | 温度: 20-24℃     |           | 相对湿度: 40-47%RH |
| 编制人: 邢玉洁                                                                                                                                             |                |           |                |
| 审核人: 唐昌明                                                                                                                                             |                |           |                |
| 批准人: 刘永峰                                                                                                                                             |                |           |                |
| <div style="text-align: right;"><br/>批准日期: 2022年 6 月 22 日</div> |                |           |                |

## 检测报告

国环立宏【委】字(2022)第0158号

第2页 共3页

## 1. 检测依据及主要仪器

| 样品类别 | 检测参数        | 检测依据                                                 | 检出限         | 仪器编号                          | 检定(校准)有效期  |
|------|-------------|------------------------------------------------------|-------------|-------------------------------|------------|
| 地下水  | pH 值        | HJ 1147-2020 水质 pH 值的测定 电极法                          | /           | PHB-4 便携式 PH 计 (GHLH/FY/031)  | 2022/10/21 |
|      | 总硬度         | GB/T 7477-1987 水质 钙和镁总量的测定 EDTA 滴定法                  | 5 mg/L      | /                             | /          |
|      | 溶解性总固体      | GB/T 5750.4-2006 生活饮用水标准检验方法 感官性状和物理指标 (8.1)称量法      | 10 mg/L     | FA2004 万分之一电子天平(GHLH/FY/034)  | 2022/10/09 |
|      | 硫酸盐         | GB/T 11899-1989 水质 硫酸盐的测定 重量法                        | 10 mg/L     | FA2004 万分之一电子天平(GHLH/FY/034)  | 2022/10/09 |
|      | 氯化物         | GB/T 11896-1989 水质 氯化物的测定 硝酸银滴定法                     | 10 mg/L     | /                             | /          |
|      | 铁           | GB/T 11911-1989 水质 铁、锰的测定 火焰原子吸收分光光度法                | 0.03 mg/L   | GGX-800 原子吸收光度计(GHLH/FY/002)  | 2023/10/24 |
|      | 锰           |                                                      | 0.01 mg/L   |                               |            |
|      | 挥发性酚类       | HJ 503-2009 水质 挥发酚的测定 4-氨基安替比林分光光度法                  | 0.0003 mg/L | 722N 可见分光光度计 (GHLH/FY/029)    | 2022/10/21 |
|      | 耗氧量         | GB/T 5750.7-2006 生活饮用水标准检验方法 有机物综合指标(1.1)酸性高锰酸钾滴定法   | 0.05 mg/L   | /                             | /          |
|      | 氨氮          | HJ 535-2009 水质 氨氮的测定 纳氏试剂分光光度法                       | 0.025 mg/L  | 722N 可见分光光度计 (GHLH/FY/029)    | 2022/10/21 |
|      | 总大肠菌群       | GB/T 5750.12-2006 生活饮用水标准检验方法 微生物指标 (2.1)多管发酵法       | 2 MPN/100mL | SHP-150 生化培养箱 (GHLH/FY/041)   | 2022/10/19 |
|      | 硝酸盐(以 N 计)  | HJ/T 346-2007 水质 硝酸盐氮的测定 紫外分光光度法 (试行)                | 0.08 mg/L   | UV2004 紫外可见分光光度计(GHLH/FY/036) | 2022/10/21 |
|      | 亚硝酸盐(以 N 计) | GB/T 5750.5-2006 生活饮用水标准检验方法 无机非金属指标 (10.1)重氮偶合分光光度法 | 0.001 mg/L  | 722N 可见分光光度计 (GHLH/FY/029)    | 2022/10/21 |
|      | 氰化物         | GB/T 5750.5-2006 生活饮用水标准检验方法 非金属指标 (4.1)异烟酸-吡唑酮分光光度法 | 0.002 mg/L  | 722N 可见分光光度计 (GHLH/FY/029)    | 2022/10/21 |
|      | 汞           | HJ 694-2014 水质 汞、砷、硒、铋和锑的测定 原子荧光法                    | 0.04 µg/L   | AFS-230E 原子荧光光度计(GHLH/FY/001) | 2022/10/21 |
|      | 砷           |                                                      | 0.3 µg/L    |                               |            |

## 检测报告

国环立宏【委】字（2022）第 0158 号

第 3 页 共 3 页

| 样品类别 | 检测参数  | 检测依据                                                | 检出限        | 仪器编号                                  | 检定(校准)有效期  |
|------|-------|-----------------------------------------------------|------------|---------------------------------------|------------|
| 地下水  | 氟化物   | GB/T 7484-1987 水质 氟化物的测定 离子选择电极法                    | 0.05 mg/L  | PXSJ-226 离子计 (GHLH/FY/030)            | 2022/10/21 |
|      | 铬（六价） | GB/T 5750.6-2006 生活饮用水标准检验方法 金属指标 (10.1)二苯碳酰二肼分光光度法 | 0.004 mg/L | 722N 可见分光光度计 (GHLH/FY/029)            | 2022/10/21 |
|      | 铅     | HJ 700-2014 水质 65 种元素的测定 电感耦合等离子体质谱法                | 0.09 µg/L  | NexION 350X 电感耦合等离子体质谱仪 (GHLH/FY/149) | 2023/05/15 |
|      | 镉     |                                                     | 0.05 µg/L  |                                       |            |

## 2.1 地下水检测结果

| 采样日期             |                  | 5 月 20 日 |         |         |
|------------------|------------------|----------|---------|---------|
| 检测参数             | 检测点位             | 1#蔡家店水井  | 2#李家村水井 | 3#鲍家村水井 |
|                  |                  |          |         |         |
| pH 值（无量纲）        |                  | 7.5      | 7.3     | 7.5     |
| 总硬度（mg/L）        |                  | 289      | 410     | 424     |
| 溶解性总固体（mg/L）     |                  | 448      | 748     | 750     |
| 硫酸盐（mg/L）        |                  | 24       | 46      | 53      |
| 氯化物（mg/L）        |                  | 34       | 73      | 96      |
| 铁（mg/L）          |                  | 0.28     | 0.20    | 0.12    |
| 锰（mg/L）          |                  | ND       | ND      | ND      |
| 挥发性酚类（mg/L）      |                  | ND       | ND      | ND      |
| 耗氧量（mg/L）        |                  | 0.96     | 0.92    | 1.23    |
| 氨氮（mg/L）         |                  | 0.120    | 0.103   | 0.117   |
| 总大肠菌群（MPN/100mL） |                  | ND       | ND      | ND      |
| 硝酸盐氮（mg/L）       |                  | 1.38     | 1.24    | 1.29    |
| 亚硝酸盐氮（mg/L）      |                  | 0.001    | 0.001   | 0.001   |
| 氰化物（mg/L）        |                  | ND       | ND      | ND      |
| 氟化物（mg/L）        |                  | 0.58     | 0.58    | 0.54    |
| 汞（µg/L）          |                  | 0.13     | 0.15    | 0.36    |
| 砷（µg/L）          |                  | 1.5      | 7.1     | 7.8     |
| 镉（µg/L）          |                  | 0.43     | 0.43    | 0.31    |
| 铬（六价）（mg/L）      |                  | ND       | ND      | ND      |
| 铅（µg/L）          |                  | 1.71     | 1.34    | 0.28    |
| 备注               | “ND”表示低于检出限，未检出。 |          |         |         |

\*\*\*报告结束\*\*\*





221100141808

(2022)26 W2020057 绍兴国环立宏  
土壤 1-5  
九安检测  
J&A TESTING



HC220446

# 检测报告

## TEST REPORT

报告编号  
REPORT NO.

HC220445-3

样品名称  
SAMPLE DESCRIPTION

土壤

委托单位  
CLIENT

山东国环立宏检测有限公司

受检单位  
INSPECTED ENTIFY

淄博绿能新能源有限公司

检测类别  
TEST CATEGORY

委托检测

中国检验检疫科学研究院南方测试中心

浙江九安检测科技有限公司

CAIQ Southern Testing Center Zhejiang J&A Testing Technology Co., Ltd

浙江九安检测科技有限公司/ Zhejiang J&A Testing Technology Co., Ltd.

地址: 浙江省杭州市滨江区滨安路 1335 号 D 栋 2 层, 310053

Add.: 2<sup>nd</sup> Floor, Building D, No.1335 Bin'an Rd., Binjiang District, Hangzhou, China, 310053

网址 Website: www.jatests.com

邮箱 Email: service@jatests.com

电话 Tel: 0571-56031800



检测报告  
Test Report

报告编号 (Report No.): HC220445-3

第 1 页, 共 25 页 (Page 1 of 25)

|                              |                                                 |                           |                                            |
|------------------------------|-------------------------------------------------|---------------------------|--------------------------------------------|
| 委托单位<br>Client               | 山东国环立宏检测有限公司                                    | 地址<br>Address             | 山东省淄博市高新区青龙山路 9009 号仪器仪表产业加速器 14 号厂房 A 区五层 |
| 采样方<br>Sampling Organization | 浙江九安检测科技有限公司                                    | 采样地点<br>Sampling Location | 淄博绿能新能源有限公司厂区 (详见采样点位图)                    |
| 采样日期<br>Sampling Date        | 2022.3.7                                        | 检测日期<br>Test Date         | 2022.3.7 - 2022.4.2                        |
| 样品名称<br>Sample Description   | 土壤                                              | 检测类别<br>Test Category     | 委托检测                                       |
| 样品描述<br>Sample Character     | 见报告内页                                           |                           |                                            |
| 检测项目<br>Test Items           | 二噁英类                                            |                           |                                            |
| 检测依据<br>Test Requirements    | 土壤和沉积物 二噁英类的测定 同位素稀释高分辨气相色谱-高分辨质谱法 HJ 77.4-2008 |                           |                                            |
| 评价标准<br>Evaluation Criterion | /                                               |                           |                                            |
| 检测结果<br>Test Results         | 见报告内页                                           |                           |                                            |
| 检测结论<br>Test Conclusion      | /                                               |                           |                                            |
| 备注<br>Note                   | /                                               |                           |                                            |



批准人 曹明  
Approved by

审核人 张璐萍  
Verified by

编制人 于萍  
Edited by



检测报告  
Test Report

报告编号 ( Report No.): HC220445-3

第 2 页, 共 25 页 (Page 2 of 25)

| 土壤检测结果                  |          |               |       |      |           |                     |
|-------------------------|----------|---------------|-------|------|-----------|---------------------|
| 采样点位                    | 采样日期     | 样品编号          | 样品描述  | 检测项目 | 单位        | 检测值                 |
| S1 污水处理站北侧<br>0-0.5 m   | 2022.3.7 | HC22044500701 | 浅棕色土壤 | 二噁英类 | mg TEQ/kg | $8.3\times 10^{-8}$ |
| S1 污水处理站北侧<br>0.5-1.5 m |          | HC22044500801 | 浅棕色土壤 | 二噁英类 | mg TEQ/kg | $5.5\times 10^{-7}$ |
| S1 污水处理站北侧<br>1.5-3 m   |          | HC22044500901 | 浅棕色土壤 | 二噁英类 | mg TEQ/kg | $1.3\times 10^{-7}$ |
| S1 污水处理站北侧<br>3-6 m     |          | HC22044501001 | 浅棕色土壤 | 二噁英类 | mg TEQ/kg | $1.1\times 10^{-7}$ |
| S2 填埋场东北侧<br>0-0.5 m    |          | HC22044501101 | 浅棕色土壤 | 二噁英类 | mg TEQ/kg | $7.1\times 10^{-8}$ |
| S2 填埋场东北侧<br>0.5-1.5 m  |          | HC22044501201 | 棕色土壤  | 二噁英类 | mg TEQ/kg | $5.4\times 10^{-8}$ |
| S2 填埋场东北侧<br>1.5-3 m    |          | HC22044501301 | 棕色土壤  | 二噁英类 | mg TEQ/kg | $4.5\times 10^{-8}$ |
| S2 填埋场东北侧<br>3-6 m      |          | HC22044501401 | 棕色土壤  | 二噁英类 | mg TEQ/kg | $1.6\times 10^{-7}$ |
| S3 填埋场西南侧<br>0-0.5 m    |          | HC22044501501 | 棕色土壤  | 二噁英类 | mg TEQ/kg | $8.2\times 10^{-7}$ |
| S3 填埋场西南侧<br>0.5-1.5 m  |          | HC22044501601 | 深棕色土壤 | 二噁英类 | mg TEQ/kg | $2.0\times 10^{-6}$ |
| S3 填埋场西南侧<br>1.5-3 m    |          | HC22044501701 | 棕色土壤  | 二噁英类 | mg TEQ/kg | $6.7\times 10^{-8}$ |
| S3 填埋场西南侧<br>3-6 m      |          | HC22044501801 | 棕色土壤  | 二噁英类 | mg TEQ/kg | $6.6\times 10^{-8}$ |



检测报告  
Test Report

报告编号 ( Report No.): HC220445-3

第 3 页, 共 25 页 (Page 3 of 25)

| 土壤检测结果 (续)             |          |               |      |      |           |                    |
|------------------------|----------|---------------|------|------|-----------|--------------------|
| 采样点位                   | 采样日期     | 样品编号          | 样品描述 | 检测项目 | 单位        | 检测值                |
| S4 焚烧车间西南<br>0-0.5 m   | 2022.3.7 | HC22044501901 | 棕色土壤 | 二噁英类 | mg TEQ/kg | $6.3\times10^{-7}$ |
| S4 焚烧车间西南<br>0.5-1.5 m |          | HC22044502001 | 棕色土壤 | 二噁英类 | mg TEQ/kg | $1.1\times10^{-7}$ |
| S4 焚烧车间西南<br>1.5-3 m   |          | HC22044502101 | 棕色土壤 | 二噁英类 | mg TEQ/kg | $1.8\times10^{-7}$ |
| S4 焚烧车间西南<br>3-6 m     |          | HC22044502201 | 棕色土壤 | 二噁英类 | mg TEQ/kg | $3.5\times10^{-7}$ |
| S5 焚烧车间东北<br>0-0.5 m   |          | HC22044502301 | 棕色土壤 | 二噁英类 | mg TEQ/kg | $9.9\times10^{-8}$ |
| S5 焚烧车间东北<br>0.5-1.5 m |          | HC22044502401 | 棕色土壤 | 二噁英类 | mg TEQ/kg | $6.0\times10^{-8}$ |
| S5 焚烧车间东北<br>1.5-3 m   |          | HC22044502501 | 棕色土壤 | 二噁英类 | mg TEQ/kg | $7.9\times10^{-8}$ |
| S5 焚烧车间东北<br>3-6 m     |          | HC22044502601 | 棕色土壤 | 二噁英类 | mg TEQ/kg | $5.4\times10^{-8}$ |



# 检测报告 Test Report

报告编号 ( Report No.): HC220445-3

第 4 页, 共 25 页 (Page 4 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |                |     |                    |                |
|---------------------|---------------------|----------------|-----|--------------------|----------------|
| 样品编号                |                     | HC22044500701  | 采样量 | /                  | 含氧量            |
| 二噁英类                |                     | 实测浓度( $\rho$ ) |     | 检出限( $\rho_{DL}$ ) | 毒性当量浓度(TEQ)    |
|                     |                     | ng TEQ/kg      |     | ng TEQ/kg          | I-TEF          |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDD        | N.D.           |     | 0.05               | $\times 1$     |
|                     | 1,2,3,7,8-PeCDD     | N.D.           |     | 0.06               | $\times 0.5$   |
|                     | 1,2,3,4,7,8-HxCDD   | N.D.           |     | 0.07               | $\times 0.1$   |
|                     | 1,2,3,6,7,8-HxCDD   | N.D.           |     | 0.07               | $\times 0.1$   |
|                     | 1,2,3,7,8,9-HxCDD   | N.D.           |     | 0.07               | $\times 0.1$   |
|                     | 1,2,3,4,6,7,8-HpCDD | N.D.           |     | 0.1                | $\times 0.01$  |
|                     | OCDD                | N.D.           |     | 0.2                | $\times 0.001$ |
|                     | PCDDs 总量            | 0.31           |     | -                  | 0.051          |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | N.D.           |     | 0.04               | $\times 0.1$   |
|                     | 1,2,3,7,8-PeCDF     | N.D.           |     | 0.05               | $\times 0.05$  |
|                     | 2,3,4,7,8-PeCDF     | N.D.           |     | 0.05               | $\times 0.5$   |
|                     | 1,2,3,4,7,8-HxCDF   | N.D.           |     | 0.04               | $\times 0.1$   |
|                     | 1,2,3,6,7,8-HxCDF   | N.D.           |     | 0.05               | $\times 0.1$   |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.           |     | 0.08               | $\times 0.1$   |
|                     | 2,3,4,6,7,8-HxCDF   | N.D.           |     | 0.05               | $\times 0.1$   |
|                     | 1,2,3,4,6,7,8-HpCDF | 0.48           |     | 0.06               | $\times 0.01$  |
|                     | 1,2,3,4,7,8,9-HpCDF | N.D.           |     | 0.09               | $\times 0.01$  |
|                     | OCDF                | N.D.           |     | 0.2                | $\times 0.001$ |
| PCDFs 总量            |                     | 0.80           |     | -                  | 0.032          |
| 二噁英总量 (PCDDs+PCDFs) |                     | 1.1            |     | -                  | 0.083          |

备注: 实测浓度( $\rho$ ): 二噁英浓度测定值;  
 毒性当量浓度 (TEQ): 折算为相当于2,3,7,8-TCDD 的质量浓度;  
 实测浓度低于检出限时, 计算毒性当量浓度以1/2检出限计。



# 检测报告 Test Report

报告编号 (Report No.): HC220445-3

第 5 页, 共 25 页 (Page 5 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |                |                    |                |           |
|---------------------|---------------------|----------------|--------------------|----------------|-----------|
| 样品编号                | HC22044500801       | 采样量            | /                  | 含氧量            | /         |
| 二噁英类                |                     | 实测浓度( $\rho$ ) | 检出限( $\rho_{DL}$ ) | 毒性当量浓度(TEQ)    |           |
|                     |                     | ng TEQ/kg      | ng TEQ/kg          | I-TEF          | ng TEQ/kg |
| 多氯代二苯并二噁英           | 2,3,7,8-TCDD        | N.D.           | 0.07               | $\times 1$     | 0.035     |
|                     | 1,2,3,7,8-PeCDD     | N.D.           | 0.08               | $\times 0.5$   | 0.02      |
|                     | 1,2,3,4,7,8-HxCDD   | N.D.           | 0.09               | $\times 0.1$   | 0.0045    |
|                     | 1,2,3,6,7,8-HxCDD   | N.D.           | 0.09               | $\times 0.1$   | 0.0045    |
|                     | 1,2,3,7,8,9-HxCDD   | N.D.           | 0.09               | $\times 0.1$   | 0.0045    |
|                     | 1,2,3,4,6,7,8-HpCDD | 2.8            | 0.2                | $\times 0.01$  | 0.028     |
|                     | OCDD                | 5.1            | 0.3                | $\times 0.001$ | 0.0051    |
|                     | PCDDs 总量            | 8.1            | -                  | -              | 0.10      |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | N.D.           | 0.05               | $\times 0.1$   | 0.0025    |
|                     | 1,2,3,7,8-PeCDF     | 0.63           | 0.06               | $\times 0.05$  | 0.032     |
|                     | 2,3,4,7,8-PeCDF     | N.D.           | 0.06               | $\times 0.5$   | 0.015     |
|                     | 1,2,3,4,7,8-HxCDF   | 2.5            | 0.07               | $\times 0.1$   | 0.25      |
|                     | 1,2,3,6,7,8-HxCDF   | 0.54           | 0.07               | $\times 0.1$   | 0.054     |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.           | 0.1                | $\times 0.1$   | 0.005     |
|                     | 2,3,4,6,7,8-HxCDF   | N.D.           | 0.07               | $\times 0.1$   | 0.0035    |
|                     | 1,2,3,4,6,7,8-HpCDF | 8.0            | 0.1                | $\times 0.01$  | 0.08      |
|                     | 1,2,3,4,7,8,9-HpCDF | N.D.           | 0.2                | $\times 0.01$  | 0.001     |
|                     | OCDF                | 7.7            | 0.4                | $\times 0.001$ | 0.0077    |
|                     | PCDFs 总量            | 20             | -                  | -              | 0.45      |
| 二噁英总量 (PCDDs+PCDFs) |                     | 28             | -                  | -              | 0.55      |

备注: 实测浓度( $\rho$ ): 二噁英浓度测定值;  
 毒性当量浓度 (TEQ): 折算为相当于2,3,7,8-TCDD 的质量浓度;  
 实测浓度低于检出限时, 计算毒性当量浓度以1/2检出限计。



检测报告  
Test Report

报告编号 (Report No.): HC220445-3

第 6 页, 共 25 页 (Page 6 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |               |     |                       |           |
|---------------------|---------------------|---------------|-----|-----------------------|-----------|
| 样品编号                |                     | HC22044500901 | 采样量 | /                     | 含氧量       |
| 二噁英类                |                     | 实测浓度(ρ)       |     | 检出限(ρ <sub>DL</sub> ) |           |
|                     |                     | ng TEQ/kg     |     | 毒性当量浓度(TEQ)           |           |
|                     |                     |               |     | I-TEF                 | ng TEQ/kg |
| 多氯代二苯并二噁英           | 2,3,7,8-TCDD        | N.D.          |     | 0.09                  | ×1        |
|                     | 1,2,3,7,8-PeCDD     | N.D.          |     | 0.1                   | ×0.5      |
|                     | 1,2,3,4,7,8-HxCDD   | N.D.          |     | 0.1                   | ×0.1      |
|                     | 1,2,3,6,7,8-HxCDD   | N.D.          |     | 0.1                   | ×0.1      |
|                     | 1,2,3,7,8,9-HxCDD   | N.D.          |     | 0.1                   | ×0.1      |
|                     | 1,2,3,4,6,7,8-HpCDD | N.D.          |     | 0.2                   | ×0.01     |
|                     | OCDD                | N.D.          |     | 0.4                   | ×0.001    |
|                     | PCDDs 总量            | 0.54          |     | -                     | 0.086     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | N.D.          |     | 0.06                  | ×0.1      |
|                     | 1,2,3,7,8-PeCDF     | N.D.          |     | 0.06                  | ×0.05     |
|                     | 2,3,4,7,8-PeCDF     | N.D.          |     | 0.07                  | ×0.5      |
|                     | 1,2,3,4,7,8-HxCDF   | N.D.          |     | 0.07                  | ×0.1      |
|                     | 1,2,3,6,7,8-HxCDF   | N.D.          |     | 0.08                  | ×0.1      |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.          |     | 0.1                   | ×0.1      |
|                     | 2,3,4,6,7,8-HxCDF   | N.D.          |     | 0.09                  | ×0.1      |
|                     | 1,2,3,4,6,7,8-HpCDF | N.D.          |     | 0.1                   | ×0.01     |
|                     | 1,2,3,4,7,8,9-HpCDF | N.D.          |     | 0.2                   | ×0.01     |
|                     | OCDF                | N.D.          |     | 0.5                   | ×0.001    |
|                     | PCDFs 总量            | 0.66          |     | -                     | 0.041     |
| 二噁英总量 (PCDDs+PCDFs) |                     | 1.2           |     | -                     | 0.13      |

备注：实测浓度(ρ)：二噁英浓度测定值；  
毒性当量浓度 (TEQ)：折算为相当于2,3,7,8-TCDD 的质量浓度；  
实测浓度低于检出限时，计算毒性当量浓度以1/2检出限计。



检测报告  
Test Report

报告编号 ( Report No.): HC220445-3

第 7 页, 共 25 页 (Page 7 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |               |           |                       |             |           |
|---------------------|---------------------|---------------|-----------|-----------------------|-------------|-----------|
| 样品编号                |                     | HC22044501001 | 采样量       | /                     | 含氧量         | /         |
| 二噁英类                |                     |               | 实测浓度(ρ)   | 检出限(ρ <sub>DL</sub> ) | 毒性当量浓度(TEQ) |           |
|                     |                     |               | ng TEQ/kg | ng TEQ/kg             | I-TEF       | ng TEQ/kg |
| 多氯代二苯并呋二噁英          | 2,3,7,8-TCDD        |               | N.D.      | 0.09                  | ×1          | 0.045     |
|                     | 1,2,3,7,8-PeCDD     |               | N.D.      | 0.08                  | ×0.5        | 0.02      |
|                     | 1,2,3,4,7,8-HxCDD   |               | N.D.      | 0.08                  | ×0.1        | 0.004     |
|                     | 1,2,3,6,7,8-HxCDD   |               | N.D.      | 0.08                  | ×0.1        | 0.004     |
|                     | 1,2,3,7,8,9-HxCDD   |               | N.D.      | 0.08                  | ×0.1        | 0.004     |
|                     | 1,2,3,4,6,7,8-HpCDD |               | N.D.      | 0.1                   | ×0.01       | 0.00050   |
|                     | OCDD                |               | N.D.      | 0.2                   | ×0.001      | 0.0001    |
|                     | PCDDs 总量            |               | 0.36      | -                     | -           | 0.078     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        |               | N.D.      | 0.06                  | ×0.1        | 0.003     |
|                     | 1,2,3,7,8-PeCDF     |               | N.D.      | 0.07                  | ×0.05       | 0.0018    |
|                     | 2,3,4,7,8-PeCDF     |               | N.D.      | 0.07                  | ×0.5        | 0.018     |
|                     | 1,2,3,4,7,8-HxCDF   |               | N.D.      | 0.05                  | ×0.1        | 0.0025    |
|                     | 1,2,3,6,7,8-HxCDF   |               | N.D.      | 0.06                  | ×0.1        | 0.003     |
|                     | 1,2,3,7,8,9-HxCDF   |               | N.D.      | 0.08                  | ×0.1        | 0.004     |
|                     | 2,3,4,6,7,8-HxCDF   |               | N.D.      | 0.06                  | ×0.1        | 0.003     |
|                     | 1,2,3,4,6,7,8-HpCDF |               | N.D.      | 0.05                  | ×0.01       | 0.00025   |
|                     | 1,2,3,4,7,8,9-HpCDF |               | N.D.      | 0.08                  | ×0.01       | 0.00040   |
|                     | OCDF                |               | N.D.      | 0.3                   | ×0.001      | 0.00015   |
|                     | PCDFs 总量            |               | 0.44      | -                     | -           | 0.036     |
| 二噁英总量 (PCDDs+PCDFs) |                     |               | 0.80      | -                     | -           | 0.11      |

备注：实测浓度(ρ)：二噁英浓度测定值；  
毒性当量浓度 (TEQ)：折算为相当于2,3,7,8-TCDD 的质量浓度；  
实测浓度低于检出限时，计算毒性当量浓度以1/2检出限计。



检测报告  
Test Report

报告编号 ( Report No.): HC220445-3

第 8 页, 共 25 页 ( Page 8 of 25 )

| 二噁英类异构体检测数据和计算结果    |                     |               |           |                       |             |           |
|---------------------|---------------------|---------------|-----------|-----------------------|-------------|-----------|
| 样品编号                |                     | HC22044501101 | 采样量       | /                     | 含氧量         | /         |
| 二噁英类                |                     |               | 实测浓度(ρ)   | 检出限(ρ <sub>DL</sub> ) | 毒性当量浓度(TEQ) |           |
|                     |                     |               | ng TEQ/kg | ng TEQ/kg             | I-TEF       | ng TEQ/kg |
| 多氯代二苯并呋二噁英          | 2,3,7,8-TCDD        |               | N.D.      | 0.07                  | ×1          | 0.035     |
|                     | 1,2,3,7,8-PeCDD     |               | N.D.      | 0.05                  | ×0.5        | 0.012     |
|                     | 1,2,3,4,7,8-HxCDD   |               | N.D.      | 0.04                  | ×0.1        | 0.002     |
|                     | 1,2,3,6,7,8-HxCDD   |               | N.D.      | 0.04                  | ×0.1        | 0.002     |
|                     | 1,2,3,7,8,9-HxCDD   |               | N.D.      | 0.04                  | ×0.1        | 0.002     |
|                     | 1,2,3,4,6,7,8-HpCDD |               | N.D.      | 0.07                  | ×0.01       | 0.00035   |
|                     | OCDD                |               | 2.4       | 0.1                   | ×0.001      | 0.0024    |
|                     | PCDDs 总量            |               | 2.6       | -                     | -           | 0.056     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        |               | N.D.      | 0.04                  | ×0.1        | 0.002     |
|                     | 1,2,3,7,8-PeCDF     |               | N.D.      | 0.03                  | ×0.05       | 0.00075   |
|                     | 2,3,4,7,8-PeCDF     |               | N.D.      | 0.03                  | ×0.5        | 0.0075    |
|                     | 1,2,3,4,7,8-HxCDF   |               | N.D.      | 0.02                  | ×0.1        | 0.001     |
|                     | 1,2,3,6,7,8-HxCDF   |               | N.D.      | 0.02                  | ×0.1        | 0.001     |
|                     | 1,2,3,7,8,9-HxCDF   |               | N.D.      | 0.03                  | ×0.1        | 0.0015    |
|                     | 2,3,4,6,7,8-HxCDF   |               | N.D.      | 0.02                  | ×0.1        | 0.001     |
|                     | 1,2,3,4,6,7,8-HpCDF |               | N.D.      | 0.03                  | ×0.01       | 0.00015   |
|                     | 1,2,3,4,7,8,9-HpCDF |               | N.D.      | 0.03                  | ×0.01       | 0.00015   |
|                     | OCDF                |               | N.D.      | 0.2                   | ×0.001      | 0.0001    |
|                     | PCDFs 总量            |               | 0.22      | -                     | -           | 0.015     |
| 二噁英总量 (PCDDs+PCDFs) |                     |               | 2.8       | -                     | -           | 0.071     |

备注：实测浓度(ρ)：二噁英浓度测定值；  
毒性当量浓度 (TEQ)：折算为相当于2,3,7,8-TCDD 的质量浓度；  
实测浓度低于检出限时，计算毒性当量浓度以1/2检出限计。



检测报告  
Test Report

报告编号 ( Report No.): HC220445-3

第 9 页, 共 25 页 (Page 9 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |               |           |                       |             |           |
|---------------------|---------------------|---------------|-----------|-----------------------|-------------|-----------|
| 样品编号                |                     | HC22044501201 | 采样量       | /                     | 含氧量         | /         |
| 二噁英类                |                     |               | 实测浓度(ρ)   | 检出限(ρ <sub>DL</sub> ) | 毒性当量浓度(TEQ) |           |
|                     |                     |               | ng TEQ/kg | ng TEQ/kg             | I-TEF       | ng TEQ/kg |
| 多氯代二苯并呋二噁英          | 2,3,7,8-TCDD        |               | N.D.      | 0.04                  | ×1          | 0.02      |
|                     | 1,2,3,7,8-PeCDD     |               | N.D.      | 0.05                  | ×0.5        | 0.012     |
|                     | 1,2,3,4,7,8-HxCDD   |               | N.D.      | 0.04                  | ×0.1        | 0.002     |
|                     | 1,2,3,6,7,8-HxCDD   |               | N.D.      | 0.04                  | ×0.1        | 0.002     |
|                     | 1,2,3,7,8,9-HxCDD   |               | N.D.      | 0.04                  | ×0.1        | 0.002     |
|                     | 1,2,3,4,6,7,8-HpCDD |               | N.D.      | 0.05                  | ×0.01       | 0.00025   |
|                     | OCDD                |               | N.D.      | 0.06                  | ×0.001      | 0.000030  |
|                     | PCDDs 总量            |               | 0.16      | -                     | -           | 0.038     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        |               | N.D.      | 0.04                  | ×0.1        | 0.002     |
|                     | 1,2,3,7,8-PeCDF     |               | N.D.      | 0.04                  | ×0.05       | 0.001     |
|                     | 2,3,4,7,8-PeCDF     |               | N.D.      | 0.03                  | ×0.5        | 0.0075    |
|                     | 1,2,3,4,7,8-HxCDF   |               | N.D.      | 0.02                  | ×0.1        | 0.001     |
|                     | 1,2,3,6,7,8-HxCDF   |               | N.D.      | 0.02                  | ×0.1        | 0.001     |
|                     | 1,2,3,7,8,9-HxCDF   |               | N.D.      | 0.04                  | ×0.1        | 0.002     |
|                     | 2,3,4,6,7,8-HxCDF   |               | N.D.      | 0.03                  | ×0.1        | 0.0015    |
|                     | 1,2,3,4,6,7,8-HpCDF |               | N.D.      | 0.02                  | ×0.01       | 0.00010   |
|                     | 1,2,3,4,7,8,9-HpCDF |               | N.D.      | 0.03                  | ×0.01       | 0.00015   |
|                     | OCDF                |               | N.D.      | 0.1                   | ×0.001      | 0.000050  |
|                     | PCDFs 总量            |               | 0.18      | -                     | -           | 0.016     |
| 二噁英总量 (PCDDs+PCDFs) |                     |               | 0.34      | -                     | -           | 0.054     |

备注：实测浓度(ρ)：二噁英浓度测定值；  
毒性当量浓度 (TEQ)：折算为相当于2,3,7,8-TCDD 的质量浓度；  
实测浓度低于检出限时，计算毒性当量浓度以1/2检出限计。



检测报告  
Test Report

报告编号 ( Report No.): HC220445-3

第 10 页, 共 25 页 (Page 10 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |               |     |                       |           |
|---------------------|---------------------|---------------|-----|-----------------------|-----------|
| 样品编号                |                     | HC22044501301 | 采样量 | /                     | 含氧量       |
| 二噁英类                |                     | 实测浓度(ρ)       |     | 检出限(ρ <sub>DL</sub> ) |           |
|                     |                     | ng TEQ/kg     |     | 毒性当量浓度(TEQ)           |           |
|                     |                     |               |     | I-TEF                 | ng TEQ/kg |
| 多氯代二苯并二噁英           | 2,3,7,8-TCDD        | N.D.          |     | 0.04                  | ×1        |
|                     | 1,2,3,7,8-PeCDD     | N.D.          |     | 0.04                  | ×0.5      |
|                     | 1,2,3,4,7,8-HxCDD   | N.D.          |     | 0.03                  | ×0.1      |
|                     | 1,2,3,6,7,8-HxCDD   | N.D.          |     | 0.03                  | ×0.1      |
|                     | 1,2,3,7,8,9-HxCDD   | N.D.          |     | 0.03                  | ×0.1      |
|                     | 1,2,3,4,6,7,8-HpCDD | N.D.          |     | 0.05                  | ×0.01     |
|                     | OCDD                | N.D.          |     | 0.05                  | ×0.001    |
|                     | PCDDs 总量            | 0.14          |     | -                     | 0.035     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | N.D.          |     | 0.02                  | ×0.1      |
|                     | 1,2,3,7,8-PeCDF     | N.D.          |     | 0.02                  | ×0.05     |
|                     | 2,3,4,7,8-PeCDF     | N.D.          |     | 0.02                  | ×0.5      |
|                     | 1,2,3,4,7,8-HxCDF   | N.D.          |     | 0.01                  | ×0.1      |
|                     | 1,2,3,6,7,8-HxCDF   | N.D.          |     | 0.01                  | ×0.1      |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.          |     | 0.02                  | ×0.1      |
|                     | 2,3,4,6,7,8-HxCDF   | N.D.          |     | 0.02                  | ×0.1      |
|                     | 1,2,3,4,6,7,8-HpCDF | N.D.          |     | 0.01                  | ×0.01     |
|                     | 1,2,3,4,7,8,9-HpCDF | N.D.          |     | 0.02                  | ×0.01     |
|                     | OCDF                | N.D.          |     | 0.1                   | ×0.001    |
|                     | PCDFs 总量            | 0.12          |     | -                     | 0.0097    |
| 二噁英总量 (PCDDs+PCDFs) |                     | 0.26          |     | -                     | 0.045     |

备注：实测浓度(ρ)：二噁英浓度测定值；  
毒性当量浓度 (TEQ)：折算为相当于2,3,7,8-TCDD 的质量浓度；  
实测浓度低于检出限时，计算毒性当量浓度以1/2检出限计。



# 检测报告 Test Report

报告编号 ( Report No.): HC220445-3

第 11 页, 共 25 页 (Page 11 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |                |                    |                |           |
|---------------------|---------------------|----------------|--------------------|----------------|-----------|
| 样品编号                | HC22044501401       | 采样量            | /                  | 含氧量            | /         |
| 二噁英类                |                     | 实测浓度( $\rho$ ) | 检出限( $\rho_{DL}$ ) | 毒性当量浓度(TEQ)    |           |
|                     |                     | ng TEQ/kg      | ng TEQ/kg          | I-TEF          | ng TEQ/kg |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDD        | N.D.           | 0.04               | $\times 1$     | 0.02      |
|                     | 1,2,3,7,8-PeCDD     | N.D.           | 0.04               | $\times 0.5$   | 0.01      |
|                     | 1,2,3,4,7,8-HxCDD   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 1,2,3,6,7,8-HxCDD   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 1,2,3,7,8,9-HxCDD   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 1,2,3,4,6,7,8-HpCDD | 0.77           | 0.06               | $\times 0.01$  | 0.0077    |
|                     | OCDD                | 2.0            | 0.07               | $\times 0.001$ | 0.002     |
|                     | PCDDs 总量            | 2.9            | -                  | -              | 0.046     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 1,2,3,7,8-PeCDF     | 0.10           | 0.03               | $\times 0.05$  | 0.005     |
|                     | 2,3,4,7,8-PeCDF     | 0.15           | 0.03               | $\times 0.5$   | 0.075     |
|                     | 1,2,3,4,7,8-HxCDF   | 0.16           | 0.02               | $\times 0.1$   | 0.016     |
|                     | 1,2,3,6,7,8-HxCDF   | N.D.           | 0.02               | $\times 0.1$   | 0.001     |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 2,3,4,6,7,8-HxCDF   | N.D.           | 0.03               | $\times 0.1$   | 0.0015    |
|                     | 1,2,3,4,6,7,8-HpCDF | 0.40           | 0.02               | $\times 0.01$  | 0.004     |
|                     | 1,2,3,4,7,8,9-HpCDF | N.D.           | 0.04               | $\times 0.01$  | 0.00020   |
|                     | OCDF                | N.D.           | 0.1                | $\times 0.001$ | 0.000050  |
|                     | PCDFs 总量            | 0.94           | -                  | -              | 0.11      |
| 二噁英总量 (PCDDs+PCDFs) |                     | 3.8            | -                  | -              | 0.16      |

备注: 实测浓度( $\rho$ ): 二噁英浓度测定值;  
毒性当量浓度 (TEQ): 折算为相当于2,3,7,8-TCDD 的质量浓度;  
实测浓度低于检出限时, 计算毒性当量浓度以1/2检出限计。



# 检测报告 Test Report

报告编号 ( Report No.): HC220445-3

第 12 页, 共 25 页 (Page 12 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |                |                    |                |           |
|---------------------|---------------------|----------------|--------------------|----------------|-----------|
| 样品编号                | HC22044501501       | 采样量            | /                  | 含氧量            | /         |
| 二噁英类                |                     | 实测浓度( $\rho$ ) | 检出限( $\rho_{DL}$ ) | 毒性当量浓度(TEQ)    |           |
|                     |                     | ng TEQ/kg      | ng TEQ/kg          | I-TEF          | ng TEQ/kg |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDD        | N.D.           | 0.08               | $\times 1$     | 0.04      |
|                     | 1,2,3,7,8-PeCDD     | 0.4            | 0.1                | $\times 0.5$   | 0.2       |
|                     | 1,2,3,4,7,8-HxCDD   | 0.35           | 0.09               | $\times 0.1$   | 0.035     |
|                     | 1,2,3,6,7,8-HxCDD   | 1.0            | 0.09               | $\times 0.1$   | 0.1       |
|                     | 1,2,3,7,8,9-HxCDD   | 0.55           | 0.09               | $\times 0.1$   | 0.055     |
|                     | 1,2,3,4,6,7,8-HpCDD | 2.3            | 0.09               | $\times 0.01$  | 0.023     |
|                     | OCDD                | 1.9            | 0.07               | $\times 0.001$ | 0.0019    |
|                     | PCDDs 总量            | 6.5            | -                  | -              | 0.45      |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | 0.86           | 0.07               | $\times 0.1$   | 0.086     |
|                     | 1,2,3,7,8-PeCDF     | 0.92           | 0.07               | $\times 0.05$  | 0.046     |
|                     | 2,3,4,7,8-PeCDF     | 0.26           | 0.07               | $\times 0.5$   | 0.13      |
|                     | 1,2,3,4,7,8-HxCDF   | 0.39           | 0.03               | $\times 0.1$   | 0.039     |
|                     | 1,2,3,6,7,8-HxCDF   | 0.31           | 0.04               | $\times 0.1$   | 0.031     |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.           | 0.06               | $\times 0.1$   | 0.003     |
|                     | 2,3,4,6,7,8-HxCDF   | 0.23           | 0.04               | $\times 0.1$   | 0.023     |
|                     | 1,2,3,4,6,7,8-HpCDF | 1.1            | 0.03               | $\times 0.01$  | 0.011     |
|                     | 1,2,3,4,7,8,9-HpCDF | N.D.           | 0.05               | $\times 0.01$  | 0.00025   |
|                     | OCDF                | N.D.           | 0.1                | $\times 0.001$ | 0.000050  |
|                     | PCDFs 总量            | 4.2            | -                  | -              | 0.37      |
| 二噁英总量 (PCDDs+PCDFs) |                     | 11             | -                  | -              | 0.82      |

备注: 实测浓度( $\rho$ ): 二噁英浓度测定值;  
毒性当量浓度 (TEQ): 折算为相当于2,3,7,8-TCDD 的质量浓度;  
实测浓度低于检出限时, 计算毒性当量浓度以1/2检出限计。



# 检测报告 Test Report

报告编号 (Report No.): HC220445-3

第 13 页, 共 25 页 (Page 13 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |                |                    |                |           |
|---------------------|---------------------|----------------|--------------------|----------------|-----------|
| 样品编号                | HC22044501601       | 采样量            | /                  | 含氧量            | /         |
| 二噁英类                |                     | 实测浓度( $\rho$ ) | 检出限( $\rho_{DL}$ ) | 毒性当量浓度(TEQ)    |           |
|                     |                     | ng TEQ/kg      | ng TEQ/kg          | I-TEF          | ng TEQ/kg |
| 多氯代二苯并二噁英           | 2,3,7,8-TCDD        | N.D.           | 0.1                | $\times 1$     | 0.05      |
|                     | 1,2,3,7,8-PeCDD     | 1.4            | 0.2                | $\times 0.5$   | 0.7       |
|                     | 1,2,3,4,7,8-HxCDD   | 1.0            | 0.2                | $\times 0.1$   | 0.1       |
|                     | 1,2,3,6,7,8-HxCDD   | 2.3            | 0.2                | $\times 0.1$   | 0.23      |
|                     | 1,2,3,7,8,9-HxCDD   | 1.5            | 0.2                | $\times 0.1$   | 0.15      |
|                     | 1,2,3,4,6,7,8-HpCDD | 6.5            | 0.09               | $\times 0.01$  | 0.065     |
|                     | OCDD                | 5.8            | 0.1                | $\times 0.001$ | 0.0058    |
|                     | PCDDs 总量            | 19             | -                  | -              | 1.3       |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | 0.7            | 0.1                | $\times 0.1$   | 0.07      |
|                     | 1,2,3,7,8-PeCDF     | 0.8            | 0.1                | $\times 0.05$  | 0.04      |
|                     | 2,3,4,7,8-PeCDF     | 0.6            | 0.1                | $\times 0.5$   | 0.3       |
|                     | 1,2,3,4,7,8-HxCDF   | 1.1            | 0.05               | $\times 0.1$   | 0.11      |
|                     | 1,2,3,6,7,8-HxCDF   | 0.81           | 0.05               | $\times 0.1$   | 0.081     |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.           | 0.09               | $\times 0.1$   | 0.0045    |
|                     | 2,3,4,6,7,8-HxCDF   | 0.41           | 0.06               | $\times 0.1$   | 0.041     |
|                     | 1,2,3,4,6,7,8-HpCDF | 2.6            | 0.04               | $\times 0.01$  | 0.026     |
|                     | 1,2,3,4,7,8,9-HpCDF | N.D.           | 0.06               | $\times 0.01$  | 0.00030   |
|                     | OCDF                | 4.7            | 0.1                | $\times 0.001$ | 0.0047    |
| PCDFs 总量            |                     | 12             | -                  | -              | 0.68      |
| 二噁英总量 (PCDDs+PCDFs) |                     | 31             | -                  | -              | 2.0       |

备注: 实测浓度( $\rho$ ): 二噁英浓度测定值;  
 毒性当量浓度(TEQ): 折算为相当于2,3,7,8-TCDD 的质量浓度;  
 实测浓度低于检出限时, 计算毒性当量浓度以1/2检出限计。



# 检测报告 Test Report

报告编号 ( Report No.): HC220445-3

第 14 页, 共 25 页 (Page 14 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |           |                       |             |           |
|---------------------|---------------------|-----------|-----------------------|-------------|-----------|
| 样品编号                | HC22044501701       | 采样量       | /                     | 含氧量         | /         |
| 二噁英类                |                     | 实测浓度(ρ)   | 检出限(ρ <sub>DL</sub> ) | 毒性当量浓度(TEQ) |           |
|                     |                     | ng TEQ/kg | ng TEQ/kg             | I-TEF       | ng TEQ/kg |
| 多氯代二苯并对二噁英          | 2,3,7,8-TCDD        | N.D.      | 0.05                  | ×1          | 0.025     |
|                     | 1,2,3,7,8-PeCDD     | N.D.      | 0.05                  | ×0.5        | 0.012     |
|                     | 1,2,3,4,7,8-HxCDD   | N.D.      | 0.05                  | ×0.1        | 0.0025    |
|                     | 1,2,3,6,7,8-HxCDD   | N.D.      | 0.05                  | ×0.1        | 0.0025    |
|                     | 1,2,3,7,8,9-HxCDD   | N.D.      | 0.05                  | ×0.1        | 0.0025    |
|                     | 1,2,3,4,6,7,8-HpCDD | N.D.      | 0.07                  | ×0.01       | 0.00035   |
|                     | OCDD                | 6.8       | 0.1                   | ×0.001      | 0.0068    |
|                     | PCDDs 总量            | 7.0       | -                     | -           | 0.052     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | N.D.      | 0.03                  | ×0.1        | 0.0015    |
|                     | 1,2,3,7,8-PeCDF     | N.D.      | 0.03                  | ×0.05       | 0.00075   |
|                     | 2,3,4,7,8-PeCDF     | N.D.      | 0.03                  | ×0.5        | 0.0075    |
|                     | 1,2,3,4,7,8-HxCDF   | N.D.      | 0.02                  | ×0.1        | 0.001     |
|                     | 1,2,3,6,7,8-HxCDF   | N.D.      | 0.02                  | ×0.1        | 0.001     |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.      | 0.04                  | ×0.1        | 0.002     |
|                     | 2,3,4,6,7,8-HxCDF   | N.D.      | 0.02                  | ×0.1        | 0.001     |
|                     | 1,2,3,4,6,7,8-HpCDF | N.D.      | 0.02                  | ×0.01       | 0.00010   |
|                     | 1,2,3,4,7,8,9-HpCDF | N.D.      | 0.03                  | ×0.01       | 0.00015   |
|                     | OCDF                | N.D.      | 0.2                   | ×0.001      | 0.0001    |
|                     | PCDFs 总量            | 0.22      | -                     | -           | 0.015     |
| 二噁英总量 (PCDDs+PCDFs) |                     | 7.2       | -                     | -           | 0.067     |

备注: 实测浓度(ρ): 二噁英浓度测定值;  
毒性当量浓度 (TEQ): 折算为相当于2,3,7,8-TCDD 的质量浓度;  
实测浓度低于检出限时, 计算毒性当量浓度以1/2检出限计。



# 检测报告 Test Report

报告编号 (Report No.): HC220445-3

第 15 页, 共 25 页 (Page 15 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |                |                    |                |           |
|---------------------|---------------------|----------------|--------------------|----------------|-----------|
| 样品编号                | HC22044501801       | 采样量            | /                  | 含氧量            | /         |
| 二噁英类                |                     | 实测浓度( $\rho$ ) | 检出限( $\rho_{DL}$ ) | 毒性当量浓度(TEQ)    |           |
|                     |                     | ng TEQ/kg      | ng TEQ/kg          | I-TEF          | ng TEQ/kg |
| 多氯代二苯并二噁英           | 2,3,7,8-TCDD        | N.D.           | 0.06               | $\times 1$     | 0.03      |
|                     | 1,2,3,7,8-PeCDD     | N.D.           | 0.05               | $\times 0.5$   | 0.012     |
|                     | 1,2,3,4,7,8-HxCDD   | N.D.           | 0.05               | $\times 0.1$   | 0.0025    |
|                     | 1,2,3,6,7,8-HxCDD   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 1,2,3,7,8,9-HxCDD   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 1,2,3,4,6,7,8-HpCDD | N.D.           | 0.07               | $\times 0.01$  | 0.00035   |
|                     | OCDD                | 1.8            | 0.1                | $\times 0.001$ | 0.0018    |
|                     | PCDDs 总量            | 2.0            | -                  | -              | 0.051     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | N.D.           | 0.03               | $\times 0.1$   | 0.0015    |
|                     | 1,2,3,7,8-PeCDF     | N.D.           | 0.03               | $\times 0.05$  | 0.00075   |
|                     | 2,3,4,7,8-PeCDF     | N.D.           | 0.03               | $\times 0.5$   | 0.0075    |
|                     | 1,2,3,4,7,8-HxCDF   | N.D.           | 0.02               | $\times 0.1$   | 0.001     |
|                     | 1,2,3,6,7,8-HxCDF   | N.D.           | 0.02               | $\times 0.1$   | 0.001     |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 2,3,4,6,7,8-HxCDF   | N.D.           | 0.02               | $\times 0.1$   | 0.001     |
|                     | 1,2,3,4,6,7,8-HpCDF | N.D.           | 0.02               | $\times 0.01$  | 0.00010   |
|                     | 1,2,3,4,7,8,9-HpCDF | N.D.           | 0.03               | $\times 0.01$  | 0.00015   |
|                     | OCDF                | N.D.           | 0.2                | $\times 0.001$ | 0.0001    |
|                     | PCDFs 总量            | 0.22           | -                  | -              | 0.015     |
| 二噁英总量 (PCDDs+PCDFs) |                     | 2.2            | -                  | -              | 0.066     |

备注: 实测浓度( $\rho$ ): 二噁英浓度测定值;  
 毒性当量浓度 (TEQ): 折算为相当于2,3,7,8-TCDD 的质量浓度;  
 实测浓度低于检出限时, 计算毒性当量浓度以1/2检出限计。



# 检测报告 Test Report

报告编号 ( Report No.): HC220445-3

第 16 页, 共 25 页 (Page 16 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |                |                    |                |           |
|---------------------|---------------------|----------------|--------------------|----------------|-----------|
| 样品编号                | HC22044501901       | 采样量            | /                  | 含氧量            | /         |
| 二噁英类                |                     | 实测浓度( $\rho$ ) | 检出限( $\rho_{DL}$ ) | 毒性当量浓度(TEQ)    |           |
|                     |                     | ng TEQ/kg      | ng TEQ/kg          | I-TEF          | ng TEQ/kg |
| 多氯代二苯并二噁英           | 2,3,7,8-TCDD        | N.D.           | 0.04               | $\times 1$     | 0.02      |
|                     | 1,2,3,7,8-PeCDD     | N.D.           | 0.04               | $\times 0.5$   | 0.01      |
|                     | 1,2,3,4,7,8-HxCDD   | 0.17           | 0.08               | $\times 0.1$   | 0.017     |
|                     | 1,2,3,6,7,8-HxCDD   | 0.18           | 0.07               | $\times 0.1$   | 0.018     |
|                     | 1,2,3,7,8,9-HxCDD   | 0.15           | 0.08               | $\times 0.1$   | 0.015     |
|                     | 1,2,3,4,6,7,8-HpCDD | 0.65           | 0.03               | $\times 0.01$  | 0.0065    |
|                     | OCDD                | 2.0            | 0.1                | $\times 0.001$ | 0.002     |
|                     | PCDDs 总量            | 3.2            | -                  | -              | 0.088     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | 0.23           | 0.02               | $\times 0.1$   | 0.023     |
|                     | 1,2,3,7,8-PeCDF     | 0.51           | 0.04               | $\times 0.05$  | 0.026     |
|                     | 2,3,4,7,8-PeCDF     | 0.25           | 0.03               | $\times 0.5$   | 0.12      |
|                     | 1,2,3,4,7,8-HxCDF   | 1.8            | 0.03               | $\times 0.1$   | 0.18      |
|                     | 1,2,3,6,7,8-HxCDF   | 0.56           | 0.02               | $\times 0.1$   | 0.056     |
|                     | 1,2,3,7,8,9-HxCDF   | 0.09           | 0.03               | $\times 0.1$   | 0.009     |
|                     | 2,3,4,6,7,8-HxCDF   | 0.30           | 0.02               | $\times 0.1$   | 0.03      |
|                     | 1,2,3,4,6,7,8-HpCDF | 7.9            | 0.03               | $\times 0.01$  | 0.079     |
|                     | 1,2,3,4,7,8,9-HpCDF | 0.57           | 0.09               | $\times 0.01$  | 0.0057    |
|                     | OCDF                | 10             | 0.2                | $\times 0.001$ | 0.01      |
|                     | PCDFs 总量            | 22             | -                  | -              | 0.54      |
| 二噁英总量 (PCDDs+PCDFs) |                     | 25             | -                  | -              | 0.63      |

备注: 实测浓度( $\rho$ ): 二噁英浓度测定值;  
 毒性当量浓度 (TEQ): 折算为相当于2,3,7,8-TCDD 的质量浓度;  
 实测浓度低于检出限时, 计算毒性当量浓度以1/2检出限计。



# 检测报告 Test Report

报告编号 (Report No.): HC220445-3

第 17 页, 共 25 页 (Page 17 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |                |     |                 |                |
|---------------------|---------------------|----------------|-----|-----------------|----------------|
| 样品编号                |                     | HC22044502001  | 采样量 | /               | 含氧量            |
| 二噁英类                |                     | 实测浓度( $\rho$ ) |     | 检出限( $p_{DL}$ ) | 毒性当量浓度(TEQ)    |
|                     |                     | ng TEQ/kg      |     | ng TEQ/kg       | I-TEF          |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDD        | N.D.           |     | 0.05            | $\times 1$     |
|                     | 1,2,3,7,8-PeCDD     | N.D.           |     | 0.06            | $\times 0.5$   |
|                     | 1,2,3,4,7,8-HxCDD   | N.D.           |     | 0.06            | $\times 0.1$   |
|                     | 1,2,3,6,7,8-HxCDD   | N.D.           |     | 0.06            | $\times 0.1$   |
|                     | 1,2,3,7,8,9-HxCDD   | N.D.           |     | 0.06            | $\times 0.1$   |
|                     | 1,2,3,4,6,7,8-HpCDD | 0.36           |     | 0.07            | $\times 0.01$  |
|                     | OCDD                | 1.5            |     | 0.1             | $\times 0.001$ |
|                     | PCDDs 总量            | 2.0            |     | -               | -              |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | N.D.           |     | 0.04            | $\times 0.1$   |
|                     | 1,2,3,7,8-PeCDF     | N.D.           |     | 0.04            | $\times 0.05$  |
|                     | 2,3,4,7,8-PeCDF     | N.D.           |     | 0.04            | $\times 0.5$   |
|                     | 1,2,3,4,7,8-HxCDF   | 0.23           |     | 0.07            | $\times 0.1$   |
|                     | 1,2,3,6,7,8-HxCDF   | N.D.           |     | 0.08            | $\times 0.1$   |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.           |     | 0.1             | $\times 0.1$   |
|                     | 2,3,4,6,7,8-HxCDF   | N.D.           |     | 0.08            | $\times 0.1$   |
|                     | 1,2,3,4,6,7,8-HpCDF | 0.47           |     | 0.04            | $\times 0.01$  |
|                     | 1,2,3,4,7,8,9-HpCDF | 0.22           |     | 0.08            | $\times 0.01$  |
|                     | OCDF                | 3.7            |     | 0.1             | $\times 0.001$ |
|                     | PCDFs 总量            | 4.8            |     | -               | -              |
| 二噁英总量 (PCDDs+PCDFs) |                     | 6.8            |     | -               | -              |

备注: 实测浓度( $\rho$ ): 二噁英浓度测定值;  
 毒性当量浓度 (TEQ): 折算为相当于2,3,7,8-TCDD 的质量浓度;  
 实测浓度低于检出限时, 计算毒性当量浓度以1/2检出限计。



# 检测报告 Test Report

报告编号 ( Report No.): HC220445-3

第 18 页, 共 25 页 (Page 18 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |                |                    |                |           |
|---------------------|---------------------|----------------|--------------------|----------------|-----------|
| 样品编号                | HC22044502101       | 采样量            | /                  | 含氧量            | /         |
| 二噁英类                |                     | 实测浓度( $\rho$ ) | 检出限( $\rho_{DL}$ ) | 毒性当量浓度(TEQ)    |           |
|                     |                     | ng TEQ/kg      | ng TEQ/kg          | I-TEF          | ng TEQ/kg |
| 多氯代二苯并二噁英           | 2,3,7,8-TCDD        | N.D.           | 0.03               | $\times 1$     | 0.015     |
|                     | 1,2,3,7,8-PeCDD     | N.D.           | 0.09               | $\times 0.5$   | 0.022     |
|                     | 1,2,3,4,7,8-HxCDD   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 1,2,3,6,7,8-HxCDD   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 1,2,3,7,8,9-HxCDD   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 1,2,3,4,6,7,8-HpCDD | 0.39           | 0.06               | $\times 0.01$  | 0.0039    |
|                     | OCDD                | 2.1            | 0.09               | $\times 0.001$ | 0.0021    |
|                     | PCDDs 总量            | 2.6            | -                  | -              | 0.049     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | N.D.           | 0.01               | $\times 0.1$   | 0.00050   |
|                     | 1,2,3,7,8-PeCDF     | 0.46           | 0.05               | $\times 0.05$  | 0.023     |
|                     | 2,3,4,7,8-PeCDF     | N.D.           | 0.05               | $\times 0.5$   | 0.012     |
|                     | 1,2,3,4,7,8-HxCDF   | 0.5            | 0.1                | $\times 0.1$   | 0.05      |
|                     | 1,2,3,6,7,8-HxCDF   | N.D.           | 0.07               | $\times 0.1$   | 0.0035    |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.           | 0.1                | $\times 0.1$   | 0.005     |
|                     | 2,3,4,6,7,8-HxCDF   | N.D.           | 0.07               | $\times 0.1$   | 0.0035    |
|                     | 1,2,3,4,6,7,8-HpCDF | 0.85           | 0.02               | $\times 0.01$  | 0.0085    |
|                     | 1,2,3,4,7,8,9-HpCDF | 1.2            | 0.06               | $\times 0.01$  | 0.012     |
|                     | OCDF                | 16             | 0.1                | $\times 0.001$ | 0.016     |
|                     | PCDFs 总量            | 19             | -                  | -              | 0.13      |
| 二噁英总量 (PCDDs+PCDFs) |                     | 22             | -                  | -              | 0.18      |

备注: 实测浓度( $\rho$ ): 二噁英浓度测定值;  
 毒性当量浓度 (TEQ): 折算为相当于2,3,7,8-TCDD 的质量浓度;  
 实测浓度低于检出限时, 计算毒性当量浓度以1/2检出限计。



检测报告  
Test Report

报告编号 (Report No.): HC220445-3

第 19 页, 共 25 页 (Page 19 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |               |     |                       |           |
|---------------------|---------------------|---------------|-----|-----------------------|-----------|
| 样品编号                |                     | HC22044502201 | 采样量 | /                     | 含氧量       |
| 二噁英类                |                     | 实测浓度(ρ)       |     | 检出限(ρ <sub>DL</sub> ) |           |
|                     |                     | ng TEQ/kg     |     | 毒性当量浓度(TEQ)           |           |
|                     |                     |               |     | I-TEF                 | ng TEQ/kg |
| 多氯代二苯并二噁英           | 2,3,7,8-TCDD        | N.D.          |     | ×1                    | 0.01      |
|                     | 1,2,3,7,8-PeCDD     | N.D.          |     | ×0.5                  | 0.025     |
|                     | 1,2,3,4,7,8-HxCDD   | N.D.          |     | ×0.1                  | 0.002     |
|                     | 1,2,3,6,7,8-HxCDD   | 0.19          |     | ×0.1                  | 0.019     |
|                     | 1,2,3,7,8,9-HxCDD   | N.D.          |     | ×0.1                  | 0.0025    |
|                     | 1,2,3,4,6,7,8-HpCDD | 0.79          |     | ×0.01                 | 0.0079    |
|                     | OCDD                | 2.5           |     | ×0.001                | 0.0025    |
|                     | PCDDs 总量            | 3.6           |     | -                     | 0.069     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | N.D.          |     | ×0.1                  | 0.001     |
|                     | 1,2,3,7,8-PeCDF     | 0.49          |     | ×0.05                 | 0.024     |
|                     | 2,3,4,7,8-PeCDF     | 0.27          |     | ×0.5                  | 0.14      |
|                     | 1,2,3,4,7,8-HxCDF   | 0.5           |     | ×0.1                  | 0.05      |
|                     | 1,2,3,6,7,8-HxCDF   | 0.2           |     | ×0.1                  | 0.02      |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.          |     | ×0.1                  | 0.01      |
|                     | 2,3,4,6,7,8-HxCDF   | 0.2           |     | ×0.1                  | 0.02      |
|                     | 1,2,3,4,6,7,8-HpCDF | 1.3           |     | ×0.01                 | 0.013     |
|                     | 1,2,3,4,7,8,9-HpCDF | 0.23          |     | ×0.01                 | 0.0023    |
|                     | OCDF                | 4.7           |     | ×0.001                | 0.0047    |
|                     | PCDFs 总量            | 8.0           |     | -                     | 0.28      |
| 二噁英总量 (PCDDs+PCDFs) |                     | 12            |     | -                     | 0.35      |

备注：实测浓度(ρ)：二噁英浓度测定值；  
毒性当量浓度 (TEQ)：折算为相当于2,3,7,8-TCDD 的质量浓度；  
实测浓度低于检出限时，计算毒性当量浓度以1/2检出限计。



# 检测报告 Test Report

报告编号 ( Report No.): HC220445-3

第 20 页, 共 25 页 ( Page 20 of 25 )

| 二噁英类异构体检测数据和计算结果    |                     |                |                    |                |           |
|---------------------|---------------------|----------------|--------------------|----------------|-----------|
| 样品编号                | HC22044502301       | 采样量            | /                  | 含氧量            | /         |
| 二噁英类                |                     | 实测浓度( $\rho$ ) | 检出限( $\rho_{DL}$ ) | 毒性当量浓度(TEQ)    |           |
|                     |                     | ng TEQ/kg      | ng TEQ/kg          | I-TEF          | ng TEQ/kg |
| 多氯代二苯并二噁英           | 2,3,7,8-TCDD        | N.D.           | 0.07               | $\times 1$     | 0.035     |
|                     | 1,2,3,7,8-PeCDD     | N.D.           | 0.09               | $\times 0.5$   | 0.022     |
|                     | 1,2,3,4,7,8-HxCDD   | N.D.           | 0.07               | $\times 0.1$   | 0.0035    |
|                     | 1,2,3,6,7,8-HxCDD   | N.D.           | 0.06               | $\times 0.1$   | 0.003     |
|                     | 1,2,3,7,8,9-HxCDD   | N.D.           | 0.08               | $\times 0.1$   | 0.004     |
|                     | 1,2,3,4,6,7,8-HpCDD | 0.39           | 0.08               | $\times 0.01$  | 0.0039    |
|                     | OCDD                | 1.5            | 0.2                | $\times 0.001$ | 0.0015    |
|                     | PCDDs 总量            | 2.1            | -                  | -              | 0.073     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | N.D.           | 0.009              | $\times 0.1$   | 0.00045   |
|                     | 1,2,3,7,8-PeCDF     | N.D.           | 0.05               | $\times 0.05$  | 0.0012    |
|                     | 2,3,4,7,8-PeCDF     | N.D.           | 0.05               | $\times 0.5$   | 0.012     |
|                     | 1,2,3,4,7,8-HxCDF   | N.D.           | 0.06               | $\times 0.1$   | 0.003     |
|                     | 1,2,3,6,7,8-HxCDF   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.           | 0.05               | $\times 0.1$   | 0.0025    |
|                     | 2,3,4,6,7,8-HxCDF   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 1,2,3,4,6,7,8-HpCDF | 0.24           | 0.05               | $\times 0.01$  | 0.0024    |
|                     | 1,2,3,4,7,8,9-HpCDF | N.D.           | 0.04               | $\times 0.01$  | 0.00020   |
|                     | OCDF                | N.D.           | 0.3                | $\times 0.001$ | 0.00015   |
|                     | PCDFs 总量            | 0.56           | -                  | -              | 0.026     |
| 二噁英总量 (PCDDs+PCDFs) |                     | 2.7            | -                  | -              | 0.099     |

备注: 实测浓度( $\rho$ ): 二噁英浓度测定值;  
 毒性当量浓度 (TEQ): 折算为相当于2,3,7,8-TCDD 的质量浓度;  
 实测浓度低于检出限时, 计算毒性当量浓度以1/2检出限计。



检测报告  
Test Report

报告编号 (Report No.): HC220445-3

第 21 页, 共 25 页 (Page 21 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |                |                    |                |           |
|---------------------|---------------------|----------------|--------------------|----------------|-----------|
| 样品编号                | HC22044502401       | 采样量            | /                  | 含氧量            | /         |
| 二噁英类                |                     | 实测浓度( $\rho$ ) | 检出限( $\rho_{DL}$ ) | 毒性当量浓度(TEQ)    |           |
|                     |                     | ng TEQ/kg      | ng TEQ/kg          | I-TEF          | ng TEQ/kg |
| 多氯代二苯并对二噁英          | 2,3,7,8-TCDD        | N.D.           | 0.04               | $\times 1$     | 0.02      |
|                     | 1,2,3,7,8-PeCDD     | N.D.           | 0.03               | $\times 0.5$   | 0.0075    |
|                     | 1,2,3,4,7,8-HxCDD   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 1,2,3,6,7,8-HxCDD   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 1,2,3,7,8,9-HxCDD   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 1,2,3,4,6,7,8-HpCDD | 0.43           | 0.03               | $\times 0.01$  | 0.0043    |
|                     | OCDD                | 1.6            | 0.08               | $\times 0.001$ | 0.0016    |
|                     | PCDDs 总量            | 2.1            | -                  | -              | 0.039     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | N.D.           | 0.02               | $\times 0.1$   | 0.001     |
|                     | 1,2,3,7,8-PeCDF     | N.D.           | 0.06               | $\times 0.05$  | 0.0015    |
|                     | 2,3,4,7,8-PeCDF     | N.D.           | 0.05               | $\times 0.5$   | 0.012     |
|                     | 1,2,3,4,7,8-HxCDF   | N.D.           | 0.02               | $\times 0.1$   | 0.001     |
|                     | 1,2,3,6,7,8-HxCDF   | N.D.           | 0.01               | $\times 0.1$   | 0.00050   |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.           | 0.02               | $\times 0.1$   | 0.001     |
|                     | 2,3,4,6,7,8-HxCDF   | N.D.           | 0.01               | $\times 0.1$   | 0.00050   |
|                     | 1,2,3,4,6,7,8-HpCDF | 0.26           | 0.03               | $\times 0.01$  | 0.0026    |
|                     | 1,2,3,4,7,8,9-HpCDF | N.D.           | 0.03               | $\times 0.01$  | 0.00015   |
|                     | OCDF                | 0.5            | 0.1                | $\times 0.001$ | 0.0005    |
|                     | PCDFs 总量            | 0.87           | -                  | -              | 0.021     |
| 二噁英总量 (PCDDs+PCDFs) |                     | 3.0            | -                  | -              | 0.060     |

备注: 实测浓度( $\rho$ ): 二噁英浓度测定值;  
 毒性当量浓度 (TEQ): 折算为相当于2,3,7,8-TCDD 的质量浓度;  
 实测浓度低于检出限时, 计算毒性当量浓度以1/2检出限计。



# 检测报告 Test Report

报告编号 ( Report No.): HC220445-3

第 22 页, 共 25 页 (Page 22 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |                |                    |                |           |
|---------------------|---------------------|----------------|--------------------|----------------|-----------|
| 样品编号                | HC22044502501       | 采样量            | /                  | 含氧量            | /         |
| 二噁英类                |                     | 实测浓度( $\rho$ ) | 检出限( $\rho_{DL}$ ) | 毒性当量浓度(TEQ)    |           |
|                     |                     | ng TEQ/kg      | ng TEQ/kg          | I-TEF          | ng TEQ/kg |
| 多氯代二苯并二噁英           | 2,3,7,8-TCDD        | N.D.           | 0.09               | $\times 1$     | 0.045     |
|                     | 1,2,3,7,8-PeCDD     | N.D.           | 0.05               | $\times 0.5$   | 0.012     |
|                     | 1,2,3,4,7,8-HxCDD   | N.D.           | 0.05               | $\times 0.1$   | 0.0025    |
|                     | 1,2,3,6,7,8-HxCDD   | N.D.           | 0.05               | $\times 0.1$   | 0.0025    |
|                     | 1,2,3,7,8,9-HxCDD   | N.D.           | 0.05               | $\times 0.1$   | 0.0025    |
|                     | 1,2,3,4,6,7,8-HpCDD | N.D.           | 0.05               | $\times 0.01$  | 0.00025   |
|                     | OCDD                | 1.1            | 0.08               | $\times 0.001$ | 0.0011    |
|                     | PCDDs 总量            | 1.3            | -                  | -              | 0.066     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        | N.D.           | 0.03               | $\times 0.1$   | 0.0015    |
|                     | 1,2,3,7,8-PeCDF     | N.D.           | 0.02               | $\times 0.05$  | 0.00050   |
|                     | 2,3,4,7,8-PeCDF     | N.D.           | 0.02               | $\times 0.5$   | 0.005     |
|                     | 1,2,3,4,7,8-HxCDF   | N.D.           | 0.02               | $\times 0.1$   | 0.001     |
|                     | 1,2,3,6,7,8-HxCDF   | N.D.           | 0.03               | $\times 0.1$   | 0.0015    |
|                     | 1,2,3,7,8,9-HxCDF   | N.D.           | 0.04               | $\times 0.1$   | 0.002     |
|                     | 2,3,4,6,7,8-HxCDF   | N.D.           | 0.03               | $\times 0.1$   | 0.0015    |
|                     | 1,2,3,4,6,7,8-HpCDF | N.D.           | 0.03               | $\times 0.01$  | 0.00015   |
|                     | 1,2,3,4,7,8,9-HpCDF | N.D.           | 0.04               | $\times 0.01$  | 0.00020   |
|                     | OCDF                | N.D.           | 0.1                | $\times 0.001$ | 0.000050  |
|                     | PCDFs 总量            | 0.18           | -                  | -              | 0.013     |
| 二噁英总量 (PCDDs+PCDFs) |                     | 1.5            | -                  | -              | 0.079     |

备注: 实测浓度( $\rho$ ): 二噁英浓度测定值;  
毒性当量浓度 (TEQ): 折算为相当于2,3,7,8-TCDD 的质量浓度;  
实测浓度低于检出限时, 计算毒性当量浓度以1/2检出限计。



检测报告  
Test Report

报告编号 ( Report No.): HC220445-3

第 23 页, 共 25 页 (Page 23 of 25)

| 二噁英类异构体检测数据和计算结果    |                     |               |           |                       |             |           |
|---------------------|---------------------|---------------|-----------|-----------------------|-------------|-----------|
| 样品编号                |                     | HC22044502601 | 采样量       | /                     | 含氧量         | /         |
| 二噁英类                |                     |               | 实测浓度(ρ)   | 检出限(ρ <sub>DL</sub> ) | 毒性当量浓度(TEQ) |           |
|                     |                     |               | ng TEQ/kg | ng TEQ/kg             | I-TEF       | ng TEQ/kg |
| 多氯代二苯并呋二噁英          | 2,3,7,8-TCDD        |               | N.D.      | 0.04                  | ×1          | 0.02      |
|                     | 1,2,3,7,8-PeCDD     |               | N.D.      | 0.04                  | ×0.5        | 0.01      |
|                     | 1,2,3,4,7,8-HxCDD   |               | N.D.      | 0.03                  | ×0.1        | 0.0015    |
|                     | 1,2,3,6,7,8-HxCDD   |               | N.D.      | 0.03                  | ×0.1        | 0.0015    |
|                     | 1,2,3,7,8,9-HxCDD   |               | N.D.      | 0.03                  | ×0.1        | 0.0015    |
|                     | 1,2,3,4,6,7,8-HpCDD |               | 0.22      | 0.02                  | ×0.01       | 0.0022    |
|                     | OCDD                |               | 1.2       | 0.04                  | ×0.001      | 0.0012    |
|                     | PCDDs 总量            |               | 1.5       | -                     | -           | 0.038     |
| 多氯代二苯并呋喃            | 2,3,7,8-TCDF        |               | N.D.      | 0.01                  | ×0.1        | 0.00050   |
|                     | 1,2,3,7,8-PeCDF     |               | N.D.      | 0.04                  | ×0.05       | 0.001     |
|                     | 2,3,4,7,8-PeCDF     |               | N.D.      | 0.03                  | ×0.5        | 0.0075    |
|                     | 1,2,3,4,7,8-HxCDF   |               | N.D.      | 0.02                  | ×0.1        | 0.001     |
|                     | 1,2,3,6,7,8-HxCDF   |               | N.D.      | 0.02                  | ×0.1        | 0.001     |
|                     | 1,2,3,7,8,9-HxCDF   |               | N.D.      | 0.03                  | ×0.1        | 0.0015    |
|                     | 2,3,4,6,7,8-HxCDF   |               | N.D.      | 0.02                  | ×0.1        | 0.001     |
|                     | 1,2,3,4,6,7,8-HpCDF |               | 0.19      | 0.02                  | ×0.01       | 0.0019    |
|                     | 1,2,3,4,7,8,9-HpCDF |               | N.D.      | 0.02                  | ×0.01       | 0.00010   |
|                     | OCDF                |               | N.D.      | 0.04                  | ×0.001      | 0.000020  |
|                     | PCDFs 总量            |               | 0.30      | -                     | -           | 0.016     |
| 二噁英总量 (PCDDs+PCDFs) |                     |               | 1.8       | -                     | -           | 0.054     |

备注：实测浓度(ρ)：二噁英浓度测定值；  
毒性当量浓度 (TEQ)：折算为相当于2,3,7,8-TCDD 的质量浓度；  
实测浓度低于检出限时，计算毒性当量浓度以1/2检出限计。



检测报告  
Test Report

报告编号 (Report No.): HC220445-3

第 24 页, 共 25 页 (Page 24 of 25)



——土壤采样点位

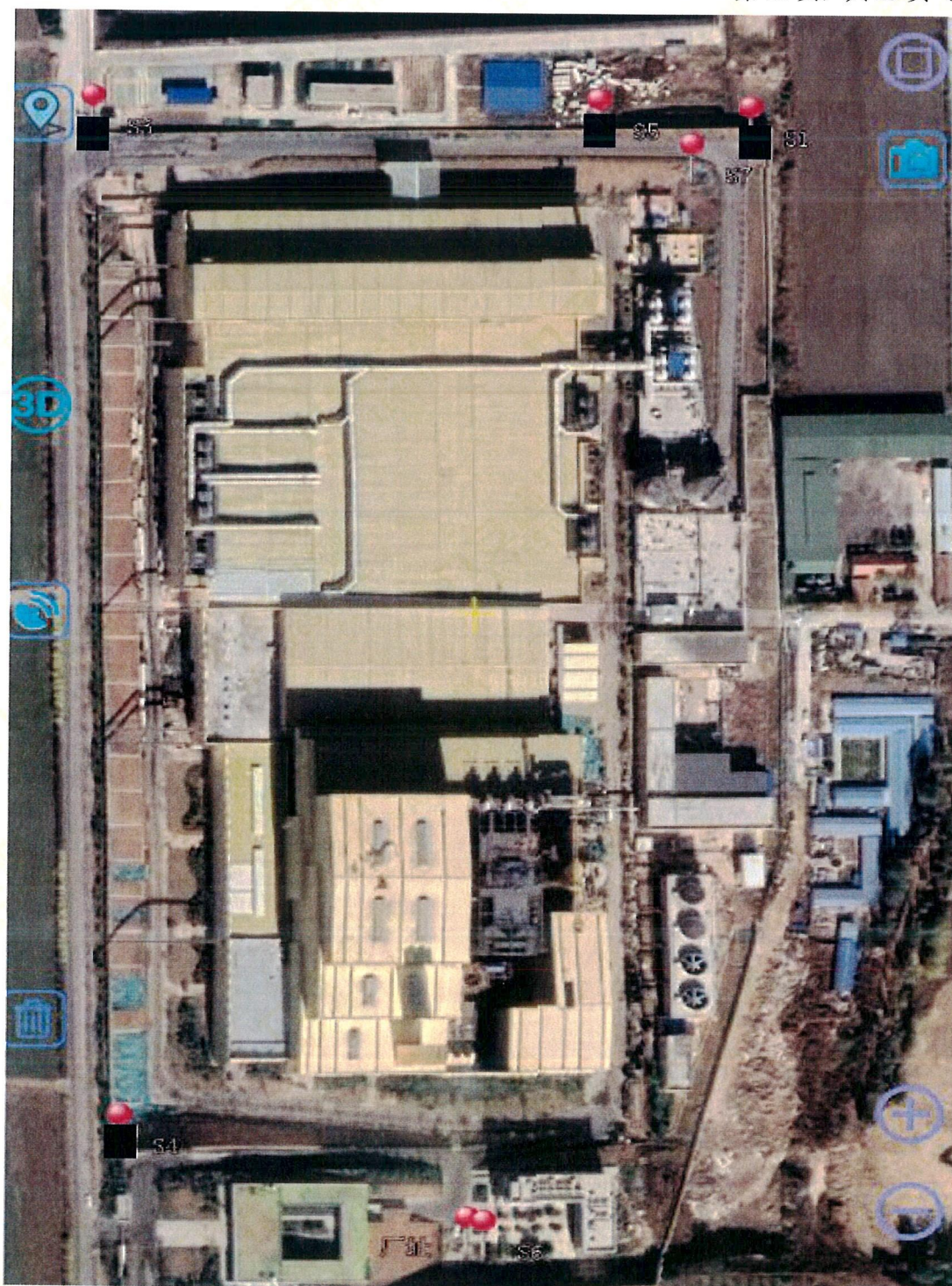
图 1-1 土壤采样点位图



检测报告  
Test Report

报告编号 (Report No.): HC220445-3

第 25 页, 共 25 页 (Page 25 of 25)



——土壤采样点位

图 1-2 土壤采样点位图

\*\*\* 报告结束 Test Report End \*\*\*

