

附件 一

钻探和土壤采样记录

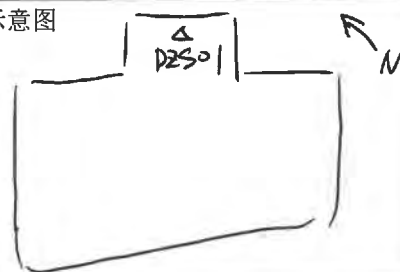


项目名称 2023年土壤和地下水自行监测
 客户名称 科算作物杭州

DZS01

点位编号

示意图



项目编号 0689020
 土孔深度 3.0m
 初始水位 无明显见水
 钻探单位 潜净
 钻机司钻 胡
 钻孔方法 手钻 直推DT25

钻孔日期 2023-11-7
 天气 晴
 坐标 120°20'02.16", 20°17'01.09"
 钻孔直径 90mm
 采样深度 0.5m 3.0m
 记录人 DW

备注

对照点

PID (ppm)	样品间隔	深度 (m)	剖面图	土层岩性描述与观察 (颜色、主要/次要组分、颗粒分布和形状(主要组分为粗粒时)、干强度、膨胀性、塑性、韧性、含水量、其它信息如异物等)
0.0	✓	0.5		0 ~ 1.3m 填土, 浅褐色 主要为砂质粉土, 含碎石和少量建筑垃圾, 0.5m处有大石块 干至潮湿, 松散, 干强度低 无塑性 无异味或污染迹象
0.1		1.0		
0.1		1.5		1.3m ~ 1.5m ~ 3.0m 砂质粉土, 褐色 → 灰褐色, 潮湿, 夹细砂 低塑性 干强度低 未见明显异味或污染
0.1	✓	2.0		
0.1		2.5		
0.1		3.0		终止, 3.0m
		3.5		送检土样 { DZS01-005 DZS01-030
		4.0		
		5.0		
		6.0		
		7.0		

钻孔记录



项目名称 2023土壤地下水自行监测
 客户名称 科耳杭州作物科学

HA01
 点位编号

示意图



项目编号 0689020
 土孔深度 6m
 初始水位 2.5m
 钻探单位 洁净
 钻机司钻 胡
 钻孔方法 手钻 直推DT35

钻孔日期 2023-11-7
 天气 晴
 坐标 120°20'2.06" 30°16'57.82"
 钻孔直径 90mm
 采样深度 0.5m 2.0m 4.6
 记录人 DW

备注 制剂. 含罐区

PID (ppm)	样品间隔	深度 (m)	剖面图	土层岩性描述与观察 (颜色、主要/次要组分、颗粒分布和形状(主要组分为粗粒时)、干强度、膨胀性、塑性、韧性、含水量、其它信息如异物等)
0.7	✓	0.5		0~1.2m 填土 淡黄 → 浅棕色 主要砂质粘土 0~0.5m 大石块 建筑垃圾 潮干 → 潮湿 无异味或污迹
0.6		1.5		1.2m - 1.5 - 2.0 - 4.5 - 6.0m 砂质粘土 灰褐色 潮湿 → 饱和 ~2.5m 见水 摇振反应中等 → 快速 粉多 较紧实 4~6m 紧实
0.7	✓	2.0		无明显气味或污迹 干强度中低 无塑性
2.0	✓	4.0		
1.7		5.0		
2.1	✓	6.0		终止 6.0m

HA01-005
 HA01-020
 HA01-040
 HA01-060

钻孔记录

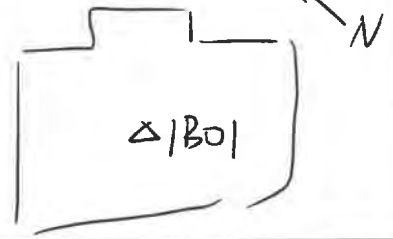


项目名称 2023 土壤地下水自行监测
 客户名称 科耳杭州

1B01

点位编号

示意图



项目编号 0689020

钻孔日期 2023-11-7

土孔深度 3m

天气 晴

初始水位 2.0m

坐标 120°19'59.80"E 30°16'56.63"N

钻探单位 晴宇

钻孔直径 90mm

钻机司钻 张

采样深度 0.5m 2.5m

钻孔方法 手钻. 直推

记录人 DW

备注 合成车间东南角

PID (ppm)	样品间隔	深度 (m)	剖面图	土层岩性描述与观察 (颜色、主要/次要组分、颗粒分布和形状(主要组分为粗粒时)、干强度、膨胀性、塑性、韧性、含水量、其它信息如异物等)
0	✓	0.5		1.0~0.7m 填土. 表层为碎石层. 下层夹石块. 棕黄色, 潮湿. 无气味或污染迹象.
0.1		1.0		0.7~3.0m 砂质粉土. 棕→褐色 较紧实. 干强度中等. 无塑性
0.1		1.5		
0		2.0		2.0 湿→饱和
0		2.5		无异味或污迹.
0.2	✓	2.5		
0		3.0		终孔. 3.0m
		4.0		
		5.0		
		6.0		
		7.0		

样品编号 { 1B01-005
1B01-005

钻孔记录

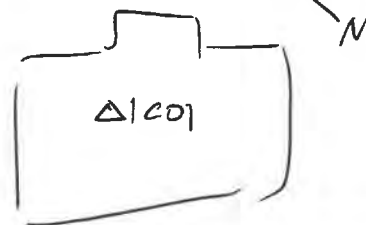


项目名称 土壤和地下水自行监测
 客户名称 科耳杭州

1C01

点位编号

示意图



项目编号 0689020
 土孔深度 4.0m
 初始水位 2.0m
 钻探单位 管宇
 钻机司钻 穆
 钻孔方法 手钻, 直推

钻孔日期 2023-11-7 ~ 11-8
 天气 晴~阴
 坐标 12°19'58.27" 30°16'59.01"
 钻孔直径 90mm
 采样深度 0.5, 1.0, 4.0m
 记录人 DW

备注

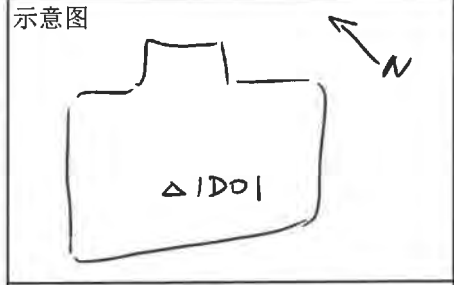
废水站收集池西侧

PID (ppm)	样品间隔	深度 (m)	剖面图	土层岩性描述与观察 (颜色、主要/次要组分、颗粒分布和形状(主要组分为粗粒时)、干强度、膨胀性、塑性、韧性、含水量、其它信息如异物等)
0.1	✓	0.5		0 ~ 0.2m 碎石层
0.1	✓	1.0		0.2 ~ 1.4m 填土层, 主要为砂质粘土 夹建筑垃圾, 碎石, 磁砖, 蛇皮袋碎片 棕色至深棕 → 棕灰色 潮湿, 臭, 中等干强度 无异味或污染迹象
0	✓	1.5		1.4 ~ 3.0 ~ 4.0m 砂质粘土 灰褐色 湿润 → 饱和, 较坚实 无塑性 → 低塑性, 中等振振灰层 无异味或污染迹象
0	✓	2.0		
0	✓	3.5		
0.1	✓	4.0		终孔, 4.0m
				样品编号 { 1C01-005 1C01-015 (DUP-1-S) 1C01-040



项目名称 2023年自行监测
 客户名称 科耳杭州

1D01
 点位编号



项目编号 0683020
 土孔深度 3.0m
 初始水位 1.8m
 钻探单位 腾序
 钻机司钻 滕
 钻孔方法 手钻 直推

钻孔日期 2023-11-8
 天气 晴/阴
 坐标 120°19'57.30" 30°16'55.90"
 钻孔直径 90mm
 采样深度 0.5m 2.5m
 记录人 DW

备注
 HW 北侧, 包装回收示例

PID (ppm)	样品间隔	深度 (m)	剖面图	土层岩性描述与观察 (颜色、主要/次要组分、颗粒分布和形状 (主要组分为粗粒时)、干强度、膨胀性、塑性、韧性、含水量、其它信息如异物等)
0.1	✓	0.5		0-0.8m 填土 浅棕色, 干至潮湿, 松散, 无干强度。 主要为砂质粘土 无异味或污染迹象
0		1.0		0.8-1.5 → 3.0m 砂质粘土 褐色, 湿 → 饱和 低塑性至无塑性 较坚实, 中等振幅反应 无异味或污染迹象
0.1	✓	2.5		终孔 3.0m
0		3.0		
		4.0		
		5.0		
		6.0		
		7.0		

送样: { 1D01-005 (DUP-2-S)
 1D01-025

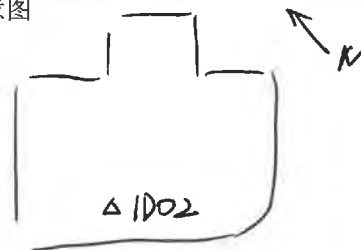
钻孔记录



项目名称 2023土壤地下水自行监测
 客户名称 拜耳作物科学

1D02
 点位编号

示意图



项目编号 0689020
 土孔深度 6.0m
 初始水位 2.0m
 钻探单位 腾净
 钻机司钻 穆
 钻孔方法 手钻 直推DT35

钻孔日期 2023-11-8
 天气 晴转多云
 坐标 20°19'56.15"E. 30°16'54.60"N
 钻孔直径 90mm
 采样深度 0.5, 2.4, 6m
 记录人 PW

备注 危废西南角

PID (ppm)	样品间隔	深度 (m)	剖面图	土层岩性描述与观察 (颜色、主要/次要组分、颗粒分布和形状(主要组分为粗粒时)、干强度、膨胀性、塑性、韧性、含水量、其它信息如异物等)
0.1	✓	0.5		0-1.5m 填土 主要为砂质粉土, 夹有植物根茎。 棕色 → 深棕色 较松散。 潮湿 → 湿润 无污染迹象或异常气味
0	✓	2		1.5-3.0-4.5-6.0 砂质粉土 深棕色 / 棕灰色 潮湿 → 饱和 低塑性 → 无塑性 中 → 快速振荡反应 无明显气味或污染迹象
0.0	✓	4.0		
0.0	✓	4.5		
0.0	✓	5		
0.0	✓	5.5		
0.0	✓	6.0		6.0m 终止

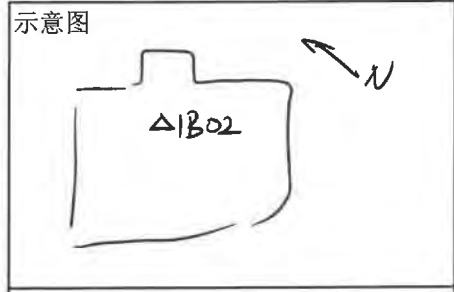
样品编号 { 1D02-005
 1D02-020
 1D02-040
 1D02-060

钻孔记录



项目名称 2023年土壤地下水自行监测
 客户名称 拜耳杭州

1B02
 点位编号



项目编号 0689020
 土孔深度 6.0m
 初始水位 1.4m
 钻探单位 博序
 钻机司钻 缪
 钻孔方法 手钻 直推

钻孔日期 2023-11-8
 天气 阴
 坐标 120°20'00.18", 30°16'58.80"
 钻孔直径 90mm
 采样深度 1.0m 3.0m 4.5m 6.0m
 记录人 DW

备注 合成车间废水收集池西侧

PID (ppm)	样品间隔	深度 (m)	剖面图	土层岩性描述与观察 (颜色、主要/次要组分、颗粒分布和形状(主要组分为粗粒时)、干强度、膨胀性、塑性、韧性、含水量、其它信息如异物等)
		0.0		0~0.2m 水泥硬化层
		0.3		0.3~0.7m 碎石垫层 含粗砂
0.2	✓	1.0		0.7m-1.2m 填土 深褐色 主要如砂质粉土 夹碎石 较松散、潮湿
0.1		1.5		
0.3		2.0		
0.8		2.5		
2.0	✓	3.0		1.2-1.5m → 3.0 → 4.5 → 6.0m 砂质粘土 深褐色、灰褐色 较坚实 → 非常坚实 低塑性 → 无塑性 湿润 / 饱和 中等振幅反应 微臭气味
2.6		3.5		
1.4		4.0		
2.8	✓	4.5		
0.8		5.0		
1.7		5.5		
4.84	✓	6.0		终孔 6.0m
		6.0		
		7.0		

样品编号 | 1B02-010
 | 1B02-030
 | 1B02-045
 | 1B02-060

附件 二

洗井和地下水采样记录

地下水洗井现场记录

监测井 编号	D201		建井 时间	水温 (°C)	井管 内径	50mm 电导率 ($\mu\text{S}/\text{cm}$)	井管 长度	6.0m 溶解氧 (mg/L)	测试人	备注
	采样洗井	性状								
	✓	清澈	10	20.4	7.62	083	-66		DW	2023-11-09 阿
	↓	清澈	20	21.4	7.63	070	44			
		清→浑浊	30	21.2	7.57	063	-10			回水快
		浑浊	40	20.8	7.55	067	-31			
		浑浊	50	21.7	7.52	068	-52			
		浑浊	60	21.5	7.49	066	-67			
		浑浊	70	21.2	7.50	065	-66			
		浑浊	80	21.3	7.51	064	-59			未洗干 回水很快
			稳定标准		±0.1	±10%	±10m 或±10%	±0.3mg/L 或 10%	≤10NTU 或±10%	
仪器编号			备注							
0680024101 / 0604023101										

地下水洗井现场记录

监测井 编号	2A01	建井 时间	水温 (°C)	井管 内径	50min 电导率 (µS/cm)	井管 长度	8.0m 溶解氧 (mg/L)	测试人	备注
建井洗井	采样洗井	累计洗井 体积 (L)	水质 性状	pH 值	氧化还原 电位 (mV)	油度 (NTU)	溶解氧 (mg/L)	油度 (NTU)	备注
	✓	5	22.5	7.56	2.57	-16			
	✓	10	21.6	7.56	0.68	-13			
	✓	20	20.8	7.57	0.68	-24			
	✓	30	20.8	7.56	0.68	-26			回水慢
	✓	35	20.8	7.56	0.72	-26			花干
			±0.5	±0.1	±10%	±10m 或±10%	±0.3mg/L 或 10%	≤10NTU 或±10%	

仪器编号

0603049301/
06080202101

备注

地下水洗井现场记录

监测井编号	2C01		建井时间	水温 (°C)	井管内径	50mm 电导率 ($\mu S/cm$)	井管长度 氧化还原 电位 (mV)	6.0m 溶解氧 (mg/L)	测试人	备注
	采样洗井	性状								
	✓	清澈无色	10	21.3	7.46	0.96	7		DW	2023-11-9 阴
	✓	稍. 无色	20	21.4	7.46	0.55	-35			
	✓	浑浊	25	21.1	7.46	0.74	-67			回牛慢
	✓	泥少量大	30	20.8	7.52	0.55	-94			
	✓	泥少量大	40	20.5	7.50	0.58	-72			
	✓	浑浊	50	20.6	7.49	0.59	-60			全砂量减少
	✓	浑浊	60	20.2	7.46	0.59	-65			
				稳定标准	±0.5	±0.1	±10m 或±10%	±0.3mg/L 或 10%	≤10NTU 或±10%	
仪器编号	备注 管底泥沙堆积									
010800024101										
01030493101										

地下水洗井现场记录

监测井编号	DZW01		建井时间	水温 (°C)	井管内径	电导率 (μS/cm)	氧化还原电位 (mV)	溶解氧 (mg/L)	测试人	备注
	采样洗井	性状								
	✓	混浊, 含砂量大	5	22.1	762	0.68	8			DW. 2023-11-9 阴
	✓	混浊, 含砂量大	10	21.8	753	0.70	10			回水慢
	✓	混浊, 含砂量大	15	21.2	750	0.69	7			回水慢, 泥干
		稳定标准		±0.5	±0.1	±10%	±10m 或 ±10%	±0.3mg/L 或 10%	≤10NTU 或 ±10%	
仪器编号	备注									
66080004101	井底泥很多, 大量泥砂									
06030493101										

附件 三

实验室检测与质控报告

检测报告

客户信息

联系人 朱苓
 客户 伊尔姆环境资源管理咨询(上海)有限公司
 地址 中国上海市四川北路1350号利通广场2005室
 电话 86 21 53853050
 传真 -
 Email ling.zhu@erm.com
 订单号 -
 样品 土壤(21)
 项目 -

实验室信息

管理者 SGS-CSTC
 实验室 环境实验室
 地址 上海市徐汇区宜山路889号3号楼2楼
 电话 +86 (21) 6140 2666-2002
 传真 +86 (21) 6115 2164
 Email REPORT.ENV@SGS.COM
 报告编号 SHE23-06798 R0
 SGS编号 0000293899
 报告日期 2023/11/18
 分析日期 2023/11/10 - 2023/11/18

备注

1. 结果适用于收到的样品。
2. 项目名称：0689020。

报告批准人

李超然

陈颖

唐黎琦

报告编制

审核

批准人



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4. 检测报告涂改无效。
The test report is invalid if altered.
5. 本检测报告以中文为准，英文文本(如有)仅为译文，两者发生冲突时，应以中文文本为准。
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符号表/Legend

- "-" 未测试该参数或不适用/The parameter is not tested or not applicable
- ↑ 提高检出限/Detection limit raised
- ↓ 降低检出限/Detection limit lowered
- ND 未检出/Not Detected



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实验室编号	23-06798.001	23-06798.002	23-06798.003	23-06798.004
样品名称	1A01-005	1A01-020	1B01-005	1B01-025
检测类别	土壤	土壤	土壤	土壤
收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10
样品描述	砂土棕灰色	砂土棕灰色	砂土棕色	砂土灰色

分析指标	方法	单位	检出限	检测结果			
pH	HJ 962	无量纲	-	8.39	8.34	8.92	9.02
总氟化物(以F计)	HJ 873	mg/kg	63	316	341	307	234
六价铬	HJ 1082	mg/kg	0.5	ND	ND	ND	ND
铅	GB/T 17141	mg/kg	0.1	16.2	17.9	19.5	16.1
镉	GB/T 17141	mg/kg	0.01	0.07	0.07	0.07	0.06
铜	HJ 491	mg/kg	1	13	15	16	12
镍	HJ 491	mg/kg	3	15	20	18	19
砷	HJ 803	mg/kg	0.6	4.3	3.7	4.3	3.6
汞	HJ 923	µg/kg	0.2	14.7	24.2	35.4	17.9
石油烃 (C ₁₀ -C ₄₀)	HJ 1021	mg/kg	6	25	22	12	ND
挥发性有机物替代物							
甲苯-d8	HJ 605	%	-	98.9	95.1	97.8	99.3
4-溴氟苯	HJ 605	%	-	121	123	122	120
二溴一氟甲烷	HJ 605	%	-	105	97	109	111
挥发性有机物							
四氯化碳	HJ 605	mg/kg	0.05	ND	ND	ND	ND
氯仿	HJ 605	mg/kg	0.05	ND	ND	ND	ND
氯甲烷	HJ 605	mg/kg	0.5	ND	ND	ND	ND
1,1-二氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2-二氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1-二氯乙烯	HJ 605	mg/kg	0.5	ND	ND	ND	ND
顺-1,2-二氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
反-1,2-二氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
二氯甲烷	HJ 605	mg/kg	0.5	ND	ND	ND	ND
1,2-二氯丙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,1,2-四氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,2,2-四氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
四氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,1-三氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,2-三氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
三氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2,3-三氯丙烷	HJ 605	mg/kg	0.02	ND	ND	ND	ND
氯乙烯	HJ 605	mg/kg	0.04	ND	ND	ND	ND
苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
氯苯	HJ 605	mg/kg	0.05	ND	1.27	ND	ND
1,2-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,4-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
乙苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
苯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
间&对-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
邻-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
萘	HJ 605	mg/kg	0.05	ND	ND	ND	ND
半挥发性有机物替代物							
2-氟苯酚	HJ 834	%	-	55	69	62	61
苯酚-d6	HJ 834	%	-	63	65	65	61
硝基苯-d5	HJ 834	%	-	59	68	59	59
2-氟联苯	HJ 834	%	-	65	71	62	64
对-三联苯-d14	HJ 834	%	-	80	81	67	93
半挥发性有机物							



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		实验室编号	23-06798.001	23-06798.002	23-06798.003	23-06798.004	
		样品名称	1A01-005	1A01-020	1B01-005	1B01-025	
		检测类别	土壤	土壤	土壤	土壤	
		收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10	
		样品描述	砂土棕灰色	砂土棕灰色	砂土棕色	砂土灰色	
分析指标	方法	单位	检出限	检测结果			
硝基苯	HJ 834	mg/kg	0.09	ND	ND	ND	ND
苯胺	HJ 834	mg/kg	0.1	ND	ND	ND	ND
2-氯苯酚	HJ 834	mg/kg	0.06	ND	ND	ND	ND
苯并(a)蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
苯并(a)芘	HJ 834	mg/kg	0.1	ND	ND	ND	ND
苯并(b)荧蒽	HJ 834	mg/kg	0.2	ND	ND	ND	ND
苯并(k)荧蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
蒎	HJ 834	mg/kg	0.1	ND	ND	ND	ND
二苯并(a,h)蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
茚并(1,2,3-cd)芘	HJ 834	mg/kg	0.1	ND	ND	ND	ND
有机磷类和拟除虫菊酯类							
溴氰菊酯	HJ 1023	mg/kg	0.8	ND	ND	ND	ND
氟虫腓	HJ 1023	mg/kg	0.3	4.2	ND	ND	ND

		实验室编号	23-06798.005	23-06798.006	23-06798.007	23-06798.008	
		样品名称	1B02-010	1B02-030	1B02-045	1B02-060	
		检测类别	土壤	土壤	土壤	土壤	
		收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10	
		样品描述	砂土深灰色	砂土灰色	砂土灰色	砂土灰色	
分析指标	方法	单位	检出限	检测结果			
pH	HJ 962	无量纲	-	9.33	9.45	9.86	9.71
总氟化物(以F计)	HJ 873	mg/kg	63	350	294	270	317
六价铬	HJ 1082	mg/kg	0.5	ND	ND	ND	ND
铅	GB/T 17141	mg/kg	0.1	18.1	18.3	15.3	16.9
镉	GB/T 17141	mg/kg	0.01	0.06	0.06	0.05	0.06
铜	HJ 491	mg/kg	1	15	14	11	10
镍	HJ 491	mg/kg	3	23	18	19	18
砷	HJ 803	mg/kg	0.6	3.9	3.2	3.2	4.2
汞	HJ 923	µg/kg	0.2	25.1	22.0	11.5	9.9
石油烃 (C ₁₀ -C ₄₀)	HJ 1021	mg/kg	6	40	11	ND	13
挥发性有机物替代物							
甲苯-d8	HJ 605	%	-	99.7	94.5	92.5	94.5
4-溴氟苯	HJ 605	%	-	117	123	120	120
二溴一氟甲烷	HJ 605	%	-	103	102	102	102
挥发性有机物							
四氯化碳	HJ 605	mg/kg	0.05	ND	ND	ND	ND
氯仿	HJ 605	mg/kg	0.05	ND	ND	ND	ND
氯甲烷	HJ 605	mg/kg	0.5	ND	ND	ND	ND
1,1-二氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2-二氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1-二氯乙烯	HJ 605	mg/kg	0.5	ND	ND	ND	ND
顺-1,2-二氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
反-1,2-二氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
二氯甲烷	HJ 605	mg/kg	0.5	ND	ND	ND	ND
1,2-二氯丙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,1,2-四氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,2,2-四氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
四氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,1-三氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,2-三氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND



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		实验室编号	23-06798.005	23-06798.006	23-06798.007	23-06798.008	
		样品名称	1B02-010	1B02-030	1B02-045	1B02-060	
		检测类别	土壤	土壤	土壤	土壤	
		收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10	
		样品描述	砂土深灰色	砂土灰色	砂土灰色	砂土灰色	
分析指标	方法	单位	检出限	检测结果			
三氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2,3-三氯丙烷	HJ 605	mg/kg	0.02	ND	ND	ND	ND
氯乙烯	HJ 605	mg/kg	0.04	ND	ND	ND	ND
苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
氯苯	HJ 605	mg/kg	0.05	1.00	4.53	0.85	17.5
1,2-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,4-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
乙苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
苯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
间&对-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
邻-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
萘	HJ 605	mg/kg	0.05	ND	ND	ND	ND
半挥发性有机物替代物							
2-氟苯酚	HJ 834	%	-	77	71	78	60
苯酚-d6	HJ 834	%	-	69	69	68	64
硝基苯-d5	HJ 834	%	-	68	63	68	56
2-氟联苯	HJ 834	%	-	80	66	68	59
对-三联苯-d14	HJ 834	%	-	91	79	90	79
半挥发性有机物							
硝基苯	HJ 834	mg/kg	0.09	ND	ND	ND	ND
苯胺	HJ 834	mg/kg	0.1	ND	ND	ND	ND
2-氯苯酚	HJ 834	mg/kg	0.06	ND	ND	ND	ND
苯并(a)蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
苯并(a)芘	HJ 834	mg/kg	0.1	ND	ND	ND	ND
苯并(b)荧蒽	HJ 834	mg/kg	0.2	ND	ND	ND	ND
苯并(k)荧蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
二苯并(a,h)蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
茚并(1,2,3-cd)芘	HJ 834	mg/kg	0.1	ND	ND	ND	ND
有机磷类和拟除虫菊酯类							
溴氟菊酯	HJ 1023	mg/kg	0.8	ND	ND	ND	ND
氟虫腈	HJ 1023	mg/kg	0.3	ND	ND	ND	ND

		实验室编号	23-06798.009	23-06798.010	23-06798.011	23-06798.012	
		样品名称	1C01-005	1C01-015	1C01-040	1D01-005	
		检测类别	土壤	土壤	土壤	土壤	
		收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10	
		样品描述	砂土灰色	砂土灰色	砂土灰色	砂土灰色	
分析指标	方法	单位	检出限	检测结果			
pH	HJ 962	无量纲	-	8.41	8.87	9.55	8.52
总氟化物(以F计)	HJ 873	mg/kg	63	323	422	328	306
六价铬	HJ 1082	mg/kg	0.5	ND	ND	ND	ND
铅	GB/T 17141	mg/kg	0.1	40.8	30.1	16.6	22.9
镉	GB/T 17141	mg/kg	0.01	0.08	0.07	0.06	0.08
铜	HJ 491	mg/kg	1	16	15	13	13
镍	HJ 491	mg/kg	3	21	21	22	20
砷	HJ 803	mg/kg	0.6	3.8	4.1	4.7	5.7
汞	HJ 923	µg/kg	0.2	28.4	20.2	12.8	23.3
石油烃 (C ₁₀ -C ₄₀)	HJ 1021	mg/kg	6	13	332	19	28



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实验室编号	23-06798.009	23-06798.010	23-06798.011	23-06798.012
样品名称	1C01-005	1C01-015	1C01-040	1D01-005
检测类别	土壤	土壤	土壤	土壤
收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10
样品描述	砂土灰色	砂土灰色	砂土灰色	砂土灰色

分析指标	方法	单位	检出限	检测结果				
挥发性有机物替代物								
甲苯-d8	HJ 605	%	-	97.2	96.7	97.0	99.1	
4-溴氟苯	HJ 605	%	-	84	122	117	122	
二溴一氟甲烷	HJ 605	%	-	108	108	82	102	
挥发性有机物								
四氯化碳	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
氯仿	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
氯甲烷	HJ 605	mg/kg	0.5	ND	ND	ND	ND	
1,1-二氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
1,2-二氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
1,1-二氯乙烯	HJ 605	mg/kg	0.5	ND	ND	ND	ND	
顺-1,2-二氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
反-1,2-二氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
二氯甲烷	HJ 605	mg/kg	0.5	ND	ND	ND	ND	
1,2-二氯丙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
1,1,1,2-四氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
1,1,2,2-四氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
四氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
1,1,1-三氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
1,1,2-三氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
三氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
1,2,3-三氯丙烷	HJ 605	mg/kg	0.02	ND	ND	ND	ND	
氯乙烯	HJ 605	mg/kg	0.04	ND	ND	ND	ND	
苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
1,2-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
1,4-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
乙苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
苯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
间&对-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
邻-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
萘	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
半挥发性有机物替代物								
2-氟苯酚	HJ 834	%	-	55	63	58	64	
苯酚-d6	HJ 834	%	-	56	64	58	68	
硝基苯-d5	HJ 834	%	-	54	60	50	63	
2-氟联苯	HJ 834	%	-	59	69	53	66	
对-三联苯-d14	HJ 834	%	-	73	72	68	74	
半挥发性有机物								
硝基苯	HJ 834	mg/kg	0.09	ND	ND	ND	ND	
苯胺	HJ 834	mg/kg	0.1	ND	ND	ND	ND	
2-氯苯酚	HJ 834	mg/kg	0.06	ND	ND	ND	ND	
苯并(a)蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND	
苯并(a)芘	HJ 834	mg/kg	0.1	ND	ND	ND	ND	
苯并(b)荧蒽	HJ 834	mg/kg	0.2	ND	ND	ND	ND	
苯并(k)荧蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND	
蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND	
二苯并(a,h)蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND	
茚并(1,2,3-cd)芘	HJ 834	mg/kg	0.1	ND	ND	ND	ND	



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实验室编号	23-06798.009	23-06798.010	23-06798.011	23-06798.012
样品名称	1C01-005	1C01-015	1C01-040	1D01-005
检测类别	土壤	土壤	土壤	土壤
收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10
样品描述	砂土灰色	砂土灰色	砂土灰色	砂土灰色

分析指标	方法	单位	检出限	检测结果			
有机磷类和拟除虫菊酯类							
溴氰菊酯	HJ 1023	mg/kg	0.8	ND	ND	ND	ND
氟虫腈	HJ 1023	mg/kg	0.3	ND	ND	ND	ND

实验室编号	23-06798.013	23-06798.014	23-06798.015	23-06798.016
样品名称	1D01-025	1D02-005	1D02-020	1D02-040
检测类别	土壤	土壤	土壤	土壤
收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10
样品描述	砂土土黄色	砂土灰色	砂土灰色	砂土灰色

分析指标	方法	单位	检出限	检测结果			
pH	HJ 962	无量纲	-	9.16	8.80	8.99	9.45
总氟化物(以F计)	HJ 873	mg/kg	63	332	243	367	365
六价铬	HJ 1082	mg/kg	0.5	ND	ND	ND	ND
铅	GB/T 17141	mg/kg	0.1	15.8	18.6	18.0	16.8
镉	GB/T 17141	mg/kg	0.01	0.06	0.06	0.06	0.06
铜	HJ 491	mg/kg	1	11	13	13	11
镍	HJ 491	mg/kg	3	20	18	22	19
砷	HJ 803	mg/kg	0.6	3.6	5.1	3.7	3.6
汞	HJ 923	µg/kg	0.2	17.7	16.6	16.3	17.2
石油烃 (C ₁₀ -C ₄₀)	HJ 1021	mg/kg	6	10	13	ND	15
挥发性有机物替代物							
甲苯-d8	HJ 605	%	-	98.3	98.7	97.8	99.4
4-溴氟苯	HJ 605	%	-	118	118	120	118
二溴一氟甲烷	HJ 605	%	-	106	101	107	100
挥发性有机物							
四氯化碳	HJ 605	mg/kg	0.05	ND	ND	ND	ND
氯仿	HJ 605	mg/kg	0.05	ND	ND	ND	ND
氯甲烷	HJ 605	mg/kg	0.5	ND	ND	ND	ND
1,1-二氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2-二氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1-二氯乙烯	HJ 605	mg/kg	0.5	ND	ND	ND	ND
顺-1,2-二氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
反-1,2-二氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
二氯甲烷	HJ 605	mg/kg	0.5	ND	ND	ND	ND
1,2-二氯丙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,1,2-四氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,2,2-四氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
四氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,1-三氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,2-三氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
三氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2,3-三氯丙烷	HJ 605	mg/kg	0.02	ND	ND	ND	ND
氯乙烷	HJ 605	mg/kg	0.04	ND	ND	ND	ND
苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,4-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
乙苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
苯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND



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		实验室编号	23-06798.013	23-06798.014	23-06798.015	23-06798.016	
		样品名称	1D01-025	1D02-005	1D02-020	1D02-040	
		检测类别	土壤	土壤	土壤	土壤	
		收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10	
		样品描述	砂土土黄色	砂土灰色	砂土灰色	砂土灰色	
分析指标	方法	单位	检出限	检测结果			
间&对-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
邻-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
半挥发性有机物替代物							
2-氟苯酚	HJ 834	%	-	69	56	58	60
苯酚-d6	HJ 834	%	-	65	65	58	62
硝基苯-d5	HJ 834	%	-	62	61	51	55
2-氟联苯	HJ 834	%	-	67	61	55	64
对-三联苯-d14	HJ 834	%	-	81	80	79	74
半挥发性有机物							
硝基苯	HJ 834	mg/kg	0.09	ND	ND	ND	ND
苯胺	HJ 834	mg/kg	0.1	ND	ND	ND	ND
2-氯苯酚	HJ 834	mg/kg	0.06	ND	ND	ND	ND
苯并(a)蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
苯并(a)芘	HJ 834	mg/kg	0.1	ND	ND	ND	ND
苯并(b)荧蒽	HJ 834	mg/kg	0.2	ND	ND	ND	ND
苯并(k)荧蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
二苯并(a,h)蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
茚并(1,2,3-cd)芘	HJ 834	mg/kg	0.1	ND	ND	ND	ND
有机磷类和拟除虫菊酯类							
溴氟菊酯	HJ 1023	mg/kg	0.8	ND	ND	ND	ND
氟虫脒	HJ 1023	mg/kg	0.3	ND	ND	ND	ND

		实验室编号	23-06798.017	23-06798.018	23-06798.019	23-06798.020	
		样品名称	1D02-060	DZS01-005	DZS01-030	DUP-1-S	
		检测类别	土壤	土壤	土壤	土壤	
		收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10	
		样品描述	砂土灰色	砂土灰色	砂土灰色	砂土灰色	
分析指标	方法	单位	检出限	检测结果			
pH	HJ 962	无量纲	-	9.70	8.79	8.67	8.92
总氟化物(以F计)	HJ 873	mg/kg	63	307	310	338	427
六价铬	HJ 1082	mg/kg	0.5	ND	ND	ND	ND
铅	GB/T 17141	mg/kg	0.1	14.9	20.4	19.8	26.7
镉	GB/T 17141	mg/kg	0.01	0.05	0.13	0.07	0.07
铜	HJ 491	mg/kg	1	10	13	14	15
镍	HJ 491	mg/kg	3	18	24	25	24
砷	HJ 803	mg/kg	0.6	3.7	4.3	3.1	3.5
汞	HJ 923	µg/kg	0.2	11.2	16.2	22.8	29.0
石油烃 (C ₁₀ -C ₄₀)	HJ 1021	mg/kg	6	ND	26	10	520
挥发性有机物替代物							
甲苯-d8	HJ 605	%	-	99.5	99.2	97.6	98.6
4-溴氟苯	HJ 605	%	-	123	125	120	123
二溴一氟甲烷	HJ 605	%	-	107	101	100	98
挥发性有机物							
四氯化碳	HJ 605	mg/kg	0.05	ND	ND	ND	ND
氯仿	HJ 605	mg/kg	0.05	ND	ND	ND	ND
氯甲烷	HJ 605	mg/kg	0.5	ND	ND	ND	ND
1,1-二氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2-二氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND



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实验室编号	23-06798.017	23-06798.018	23-06798.019	23-06798.020
样品名称	1D02-060	DZS01-005	DZS01-030	DUP-1-S
检测类别	土壤	土壤	土壤	土壤
收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10
样品描述	砂土灰色	砂土灰色	砂土灰色	砂土灰色

分析指标	方法	单位	检出限	检测结果			
1,1-二氯乙烯	HJ 605	mg/kg	0.5	ND	ND	ND	ND
顺-1,2-二氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
反-1,2-二氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
二氯甲烷	HJ 605	mg/kg	0.5	ND	ND	ND	ND
1,2-二氯丙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,1,2-四氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,2,2-四氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
四氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,1-三氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,1,2-三氯乙烷	HJ 605	mg/kg	0.05	ND	ND	ND	ND
三氯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2,3-三氯丙烷	HJ 605	mg/kg	0.02	ND	ND	ND	ND
氯乙烷	HJ 605	mg/kg	0.04	ND	ND	ND	ND
苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,4-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
乙苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
苯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
间&对-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
邻-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
萘	HJ 605	mg/kg	0.05	ND	ND	ND	ND
半挥发性有机物替代物							
2-氟苯酚	HJ 834	%	-	58	56	49	56
苯酚-d6	HJ 834	%	-	58	61	55	58
硝基苯-d5	HJ 834	%	-	47	60	49	52
2-氟联苯	HJ 834	%	-	53	63	54	54
对-三联苯-d14	HJ 834	%	-	74	69	72	66
半挥发性有机物							
硝基苯	HJ 834	mg/kg	0.09	ND	ND	ND	ND
苯胺	HJ 834	mg/kg	0.1	ND	ND	ND	ND
2-氯苯酚	HJ 834	mg/kg	0.06	ND	ND	ND	ND
苯并(a)蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
苯并(a)芘	HJ 834	mg/kg	0.1	ND	ND	ND	ND
苯并(b)荧蒽	HJ 834	mg/kg	0.2	ND	ND	ND	ND
苯并(k)荧蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
二苯并(a,h)蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
茚并(1,2,3-cd)芘	HJ 834	mg/kg	0.1	ND	ND	ND	ND
有机磷类和拟除虫菊酯类							
溴氰菊酯	HJ 1023	mg/kg	0.8	ND	ND	ND	ND
氟虫腴	HJ 1023	mg/kg	0.3	ND	ND	ND	ND



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实验室编号 23-06798.021
 样品名称 DUP-2-S
 检测类别 土壤
 收样日期 2023/11/10
 样品描述 砂土灰色

分析指标	方法	单位	检出限	检测结果
pH	HJ 962	无量纲	-	8.55
总氟化物(以F计)	HJ 873	mg/kg	63	252
六价铬	HJ 1082	mg/kg	0.5	ND
铅	GB/T 17141	mg/kg	0.1	23.0
镉	GB/T 17141	mg/kg	0.01	0.09
铜	HJ 491	mg/kg	1	13
镍	HJ 491	mg/kg	3	23
砷	HJ 803	mg/kg	0.6	5.1
汞	HJ 923	µg/kg	0.2	18.8
石油烃 (C ₁₀ -C ₄₀)	HJ 1021	mg/kg	6	21
挥发性有机物替代物				
甲苯-d8	HJ 605	%	-	91.1
4-溴氟苯	HJ 605	%	-	117
二溴一氟甲烷	HJ 605	%	-	97
挥发性有机物				
四氯化碳	HJ 605	mg/kg	0.05	ND
氯仿	HJ 605	mg/kg	0.05	ND
氯甲烷	HJ 605	mg/kg	0.5	ND
1,1-二氯乙烷	HJ 605	mg/kg	0.05	ND
1,2-二氯乙烷	HJ 605	mg/kg	0.05	ND
1,1-二氯乙烯	HJ 605	mg/kg	0.5	ND
顺-1,2-二氯乙烯	HJ 605	mg/kg	0.05	ND
反-1,2-二氯乙烯	HJ 605	mg/kg	0.05	ND
二氯甲烷	HJ 605	mg/kg	0.5	ND
1,2-二氯丙烷	HJ 605	mg/kg	0.05	ND
1,1,1,2-四氯乙烷	HJ 605	mg/kg	0.05	ND
1,1,2,2-四氯乙烷	HJ 605	mg/kg	0.05	ND
四氯乙烯	HJ 605	mg/kg	0.05	ND
1,1,1-三氯乙烷	HJ 605	mg/kg	0.05	ND
1,1,2-三氯乙烷	HJ 605	mg/kg	0.05	ND
三氯乙烯	HJ 605	mg/kg	0.05	ND
1,2,3-三氯丙烷	HJ 605	mg/kg	0.02	ND
氯乙烯	HJ 605	mg/kg	0.04	ND
苯	HJ 605	mg/kg	0.05	ND
氯苯	HJ 605	mg/kg	0.05	ND
1,2-二氯苯	HJ 605	mg/kg	0.05	ND
1,4-二氯苯	HJ 605	mg/kg	0.05	ND
乙苯	HJ 605	mg/kg	0.05	ND
苯乙烯	HJ 605	mg/kg	0.05	ND
甲苯	HJ 605	mg/kg	0.05	ND
间&对-二甲苯	HJ 605	mg/kg	0.05	ND
邻-二甲苯	HJ 605	mg/kg	0.05	ND
萘	HJ 605	mg/kg	0.05	ND
半挥发性有机物替代物				
2-氟苯酚	HJ 834	%	-	53
苯酚-d6	HJ 834	%	-	56
硝基苯-d5	HJ 834	%	-	55
2-氟联苯	HJ 834	%	-	61
对-三联苯-d14	HJ 834	%	-	71
半挥发性有机物				



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实验室编号 23-06798.021
 样品名称 DUP-2-S
 检测类别 土壤
 收样日期 2023/11/10
 样品描述 砂土灰色

分析指标	方法	单位	检出限	检测结果
硝基苯	HJ 834	mg/kg	0.09	ND
苯胺	HJ 834	mg/kg	0.1	ND
2-氯苯酚	HJ 834	mg/kg	0.06	ND
苯并(a)蒽	HJ 834	mg/kg	0.1	ND
苯并(a)芘	HJ 834	mg/kg	0.1	ND
苯并(b)荧蒽	HJ 834	mg/kg	0.2	ND
苯并(k)荧蒽	HJ 834	mg/kg	0.1	ND
蒎	HJ 834	mg/kg	0.1	ND
二苯并(a,h)蒽	HJ 834	mg/kg	0.1	ND
茚并(1,2,3-cd)芘	HJ 834	mg/kg	0.1	ND
有机磷类和拟除虫菊酯类				
溴氰菊酯	HJ 1023	mg/kg	0.8	ND
氟虫腈	HJ 1023	mg/kg	0.3	ND



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方法列表

- HJ 962-2018 土壤 pH值的测定 电位法
- HJ 873-2017 土壤 总氟化物的测定 离子选择电极法
- HJ 1082-2019 土壤和沉积物 六价铬的测定 碱溶液提取-火焰原子吸收分光光度法
- GB/T 17141-1997 土壤质量 铅、镉的测定 石墨炉原子吸收分光光度法
- HJ 491-2019 土壤和沉积物 铜、锌、铅、镍、铬的测定 火焰原子吸收分光光度法
- HJ 803-2016 土壤和沉积物 12种金属元素的测定 王水提取-电感耦合等离子体质谱法
- HJ 923-2017 土壤和沉积物 总汞的测定 催化热解-冷原子吸收分光光度法
- HJ 1021-2019 土壤和沉积物 石油烃(C10-C40)的测定 气相色谱法
- HJ 605-2011 土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法
- HJ 834-2017 土壤和沉积物 半挥发性有机物的测定 气相色谱-质谱法
- HJ 1023-2019 土壤和沉积物 有机磷类和拟除虫菊酯类等47种农药的测定 气相色谱-质谱法



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方法:HJ 962-2018

仪器名称	型号	仪器编号	出厂序号
多参数分析仪	Mettler S470-K	CHEM-1109	B803289021

方法:HJ 873-2017

仪器名称	型号	仪器编号	出厂序号
氟离子分析仪	PXSJ-216F	CHEM-1032	621400N0016070036

方法:HJ 1082-2019

仪器名称	型号	仪器编号	出厂序号
原子吸收光谱仪	ThermoFisher iCE3500	CHEM-1161	AA09182111

方法:GB/T 17141-1997

仪器名称	型号	仪器编号	出厂序号
原子吸收光谱仪	ThermoFisher iCE3500	CHEM-1191	AA09172107
原子吸收光谱仪	ThermoFisher iCE3500	CHEM-1192	AA09173007

方法:HJ 491-2019

仪器名称	型号	仪器编号	出厂序号
原子吸收光谱仪	ThermoFisher iCE3500	CHEM-1161	AA09182111

方法:HJ 803-2016

仪器名称	型号	仪器编号	出厂序号
电感耦合等离子体质谱仪	Agilent 7900	CHEM-998	JP16311502

方法:HJ 923-2017

仪器名称	型号	仪器编号	出厂序号
测汞仪	Milestone DMA-80	CHEM-958	16041979
测汞仪	Milestone DMA-80	CHEM-960	11091044

方法:HJ 1021-2019

仪器名称	型号	仪器编号	出厂序号
气相色谱仪-氢火焰离子检测器	Agilent 7890B	CHEM-969	CN16223171

方法:HJ 605-2011

仪器名称	型号	仪器编号	出厂序号
吹扫捕集气相色谱质谱仪	Agilent AQUATEk100/7890B/5977A	CHEM-937	US15240014/CN15423234/US1541L452

方法:HJ 834-2017

仪器名称	型号	仪器编号	出厂序号
气相色谱质谱仪	Agilent 7890B/5977B	CHEM-963	CN16193055/US1618M010

方法:HJ 1023-2019

仪器名称	型号	仪器编号	出厂序号
气相色谱质谱仪	Agilent 7890B/5977B	CHEM-963	CN16193055/US1618M010



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方法空白(MB)

参数	QC批号	单位	检出限	MB	控制范围
土壤质量 铅、镉的测定 石墨炉原子吸收分光光度法 方法：GB/T 17141-1997					
铅	LB2340469	mg/kg	0.1	<0.1	<0.1
铅	LB2340469	mg/kg	0.1	<0.1	<0.1
铅	LB2340467	mg/kg	0.1	<0.1	<0.1
铅	LB2340467	mg/kg	0.1	<0.1	<0.1
镉	LB2340467	mg/kg	0.01	<0.01	<0.01
镉	LB2340467	mg/kg	0.01	<0.01	<0.01
镉	LB2340469	mg/kg	0.01	<0.01	<0.01
镉	LB2340469	mg/kg	0.01	<0.01	<0.01
土壤和沉积物 石油烃(C10-C40)的测定 气相色谱法 方法：HJ 1021-2019					
石油烃 (C ₁₀ -C ₄₀)	LB2339990	mg/kg	6	<6	<6
石油烃 (C ₁₀ -C ₄₀)	LB2339992	mg/kg	6	<6	<6
土壤和沉积物 有机磷类和拟除虫菊酯类等47种农药的测定 气相色谱-质谱法 方法：HJ 1023-2019					
溴氰菊酯	LB2340375	mg/kg	0.8	<0.8	<0.8
溴氰菊酯	LB2340376	mg/kg	0.8	<0.8	<0.8
氟虫腈	LB2340375	mg/kg	0.3	<0.3	<0.3
氟虫腈	LB2340376	mg/kg	0.3	<0.3	<0.3
土壤和沉积物 六价铬的测定 碱溶液提取-火焰原子吸收分光光度法 方法：HJ 1082-2019					
六价铬	LB2340130	mg/kg	0.5	<0.5	<0.5
六价铬	LB2340131	mg/kg	0.5	<0.5	<0.5
土壤和沉积物 铜、锌、铅、镍、铬的测定 火焰原子吸收分光光度法 方法：HJ 491-2019					
铜	LB2340470	mg/kg	1	<1	<1
铜	LB2340471	mg/kg	1	<1	<1
铜	LB2340471	mg/kg	1	<1	<1
铜	LB2340470	mg/kg	1	<1	<1
镍	LB2340471	mg/kg	3	<3	<3
镍	LB2340471	mg/kg	3	<3	<3
镍	LB2340470	mg/kg	3	<3	<3
镍	LB2340470	mg/kg	3	<3	<3
土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 605-2011					
甲苯-d8	LB2340573	%	-	88.4	70-130
甲苯-d8	LB2340574	%	-	97.1	70-130
4-溴氟苯	LB2340573	%	-	123	70-130
4-溴氟苯	LB2340574	%	-	130	70-130



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方法空白(MB)

参数	QC批号	单位	检出限	MB	控制范围
土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法: HJ 605-2011(继续)					
二溴一氟甲烷	LB2340573	%	-	109	70-130
二溴一氟甲烷	LB2340574	%	-	103	70-130
四氯化碳	LB2340573	mg/kg	0.05	<0.05	<0.05
四氯化碳	LB2340574	mg/kg	0.05	<0.05	<0.05
氯仿	LB2340573	mg/kg	0.05	<0.05	<0.05
氯仿	LB2340574	mg/kg	0.05	<0.05	<0.05
氯甲烷	LB2340573	mg/kg	0.5	<0.5	<0.5
氯甲烷	LB2340574	mg/kg	0.5	<0.5	<0.5
1,1-二氯乙烷	LB2340573	mg/kg	0.05	<0.05	<0.05
1,1-二氯乙烷	LB2340574	mg/kg	0.05	<0.05	<0.05
1,2-二氯乙烷	LB2340573	mg/kg	0.05	<0.05	<0.05
1,2-二氯乙烷	LB2340574	mg/kg	0.05	<0.05	<0.05
1,1-二氯乙烯	LB2340573	mg/kg	0.5	<0.5	<0.5
1,1-二氯乙烯	LB2340574	mg/kg	0.5	<0.5	<0.5
顺-1,2-二氯乙烯	LB2340573	mg/kg	0.05	<0.05	<0.05
顺-1,2-二氯乙烯	LB2340574	mg/kg	0.05	<0.05	<0.05
反-1,2-二氯乙烯	LB2340573	mg/kg	0.05	<0.05	<0.05
反-1,2-二氯乙烯	LB2340574	mg/kg	0.05	<0.05	<0.05
二氯甲烷	LB2340573	mg/kg	0.5	<0.5	<0.5
二氯甲烷	LB2340574	mg/kg	0.5	<0.5	<0.5
1,2-二氯丙烷	LB2340573	mg/kg	0.05	<0.05	<0.05
1,2-二氯丙烷	LB2340574	mg/kg	0.05	<0.05	<0.05
1,1,1,2-四氯乙烷	LB2340573	mg/kg	0.05	<0.05	<0.05
1,1,1,2-四氯乙烷	LB2340574	mg/kg	0.05	<0.05	<0.05
1,1,2,2-四氯乙烷	LB2340573	mg/kg	0.05	<0.05	<0.05
1,1,2,2-四氯乙烷	LB2340574	mg/kg	0.05	<0.05	<0.05
四氯乙烯	LB2340573	mg/kg	0.05	<0.05	<0.05
四氯乙烯	LB2340574	mg/kg	0.05	<0.05	<0.05
1,1,1-三氯乙烷	LB2340573	mg/kg	0.05	<0.05	<0.05
1,1,1-三氯乙烷	LB2340574	mg/kg	0.05	<0.05	<0.05
1,1,2-三氯乙烷	LB2340573	mg/kg	0.05	<0.05	<0.05
1,1,2-三氯乙烷	LB2340574	mg/kg	0.05	<0.05	<0.05
三氯乙烯	LB2340573	mg/kg	0.05	<0.05	<0.05



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方法空白(MB)

参数	QC批号	单位	检出限	MB	控制范围
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土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法: HJ 605-2011(继续)

三氯乙烯	LB2340574	mg/kg	0.05	<0.05	<0.05
1,2,3-三氯丙烷	LB2340573	mg/kg	0.02	<0.02	<0.02
1,2,3-三氯丙烷	LB2340574	mg/kg	0.02	<0.02	<0.02
氯乙烯	LB2340573	mg/kg	0.04	<0.04	<0.04
氯乙烯	LB2340574	mg/kg	0.04	<0.04	<0.04
苯	LB2340573	mg/kg	0.05	<0.05	<0.05
苯	LB2340574	mg/kg	0.05	<0.05	<0.05
氯苯	LB2340573	mg/kg	0.05	<0.05	<0.05
氯苯	LB2340574	mg/kg	0.05	<0.05	<0.05
1,2-二氯苯	LB2340573	mg/kg	0.05	<0.05	<0.05
1,2-二氯苯	LB2340574	mg/kg	0.05	<0.05	<0.05
1,4-二氯苯	LB2340573	mg/kg	0.05	<0.05	<0.05
1,4-二氯苯	LB2340574	mg/kg	0.05	<0.05	<0.05
乙苯	LB2340573	mg/kg	0.05	<0.05	<0.05
乙苯	LB2340574	mg/kg	0.05	<0.05	<0.05
苯乙烯	LB2340573	mg/kg	0.05	<0.05	<0.05
苯乙烯	LB2340574	mg/kg	0.05	<0.05	<0.05
甲苯	LB2340573	mg/kg	0.05	<0.05	<0.05
甲苯	LB2340574	mg/kg	0.05	<0.05	<0.05
间&对-二甲苯	LB2340573	mg/kg	0.05	<0.05	<0.05
间&对-二甲苯	LB2340574	mg/kg	0.05	<0.05	<0.05
邻-二甲苯	LB2340573	mg/kg	0.05	<0.05	<0.05
邻-二甲苯	LB2340574	mg/kg	0.05	<0.05	<0.05
萘	LB2340573	mg/kg	0.05	<0.05	<0.05
萘	LB2340574	mg/kg	0.05	<0.05	<0.05

土壤和沉积物 12种金属元素的测定 王水提取-电感耦合等离子体质谱法 方法: HJ 803-2016

砷	LB2340189	mg/kg	0.6	<0.6	<0.6
砷	LB2340189	mg/kg	0.6	<0.6	<0.6
砷	LB2340190	mg/kg	0.6	<0.6	<0.6
砷	LB2340190	mg/kg	0.6	<0.6	<0.6

土壤和沉积物 半挥发性有机物的测定 气相色谱—质谱法 方法: HJ 834-2017

2-氟苯酚	LB2340373	%	-	69	28-104
2-氟苯酚	LB2340374	%	-	70	28-104



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方法空白(MB)

参数	QC批号	单位	检出限	MB	控制范围
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土壤和沉积物 半挥发性有机物的测定 气相色谱—质谱法 方法：HJ 834-2017(继续)

苯酚-d6	LB2340374	%	-	66	50-70
苯酚-d6	LB2340373	%	-	69	50-70
硝基苯-d5	LB2340373	%	-	74	45-77
硝基苯-d5	LB2340374	%	-	73	45-77
2-氟联苯	LB2340373	%	-	56	52-88
2-氟联苯	LB2340374	%	-	54	52-88
对-三联苯-d14	LB2340373	%	-	99	33-137
对-三联苯-d14	LB2340374	%	-	96	33-137
硝基苯	LB2340373	mg/kg	0.09	<0.09	<0.09
硝基苯	LB2340374	mg/kg	0.09	<0.09	<0.09
苯胺	LB2340373	mg/kg	0.1	<0.1	<0.1
苯胺	LB2340374	mg/kg	0.1	<0.1	<0.1
2-氯苯酚	LB2340373	mg/kg	0.06	<0.06	<0.06
2-氯苯酚	LB2340374	mg/kg	0.06	<0.06	<0.06
苯并(a)蒽	LB2340373	mg/kg	0.1	<0.1	<0.1
苯并(a)蒽	LB2340374	mg/kg	0.1	<0.1	<0.1
苯并(a)芘	LB2340374	mg/kg	0.1	<0.1	<0.1
苯并(a)芘	LB2340373	mg/kg	0.1	<0.1	<0.1
苯并(b)荧蒽	LB2340373	mg/kg	0.2	<0.2	<0.2
苯并(b)荧蒽	LB2340374	mg/kg	0.2	<0.2	<0.2
苯并(k)荧蒽	LB2340373	mg/kg	0.1	<0.1	<0.1
苯并(k)荧蒽	LB2340374	mg/kg	0.1	<0.1	<0.1
蒽	LB2340374	mg/kg	0.1	<0.1	<0.1
蒽	LB2340373	mg/kg	0.1	<0.1	<0.1
二苯并(a,h)蒽	LB2340374	mg/kg	0.1	<0.1	<0.1
二苯并(a,h)蒽	LB2340373	mg/kg	0.1	<0.1	<0.1
茚并(1,2,3-cd)芘	LB2340373	mg/kg	0.1	<0.1	<0.1
茚并(1,2,3-cd)芘	LB2340374	mg/kg	0.1	<0.1	<0.1

土壤 总氟化物的测定 离子选择电极法 方法：HJ 873-2017

总氟化物(以F计)	LB2340630	mg/kg	63	<63	<63
总氟化物(以F计)	LB2340628	mg/kg	63	<63	<63
总氟化物(以F计)	LB2340629	mg/kg	63	<63	<63

土壤和沉积物 总汞的测定 催化热解-冷原子吸收分光光度法 方法：HJ 923-2017



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方法空白(MB)

参数	QC批号	单位	检出限	MB	控制范围
土壤和沉积物 总汞的测定 催化热解-冷原子吸收分光光度法 方法: HJ 923-2017(继续)					
汞	LB2340264	µg/kg	0.2	<0.2	<0.2
汞	LB2340265	µg/kg	0.2	<0.2	<0.2

方法空白结果评价: 本批次测试的方法空白均低于检出限, 符合实验室质量控制要求。

实验室控制样品 (LCS)

实验室控制样品回收率%=测定值*100/参考值。

参数	QC批号	单位	检出限	测定值	参考值	回收率%	控制范围	
							下限	上限
土壤和沉积物 石油烃(C10-C40)的测定 气相色谱法 方法: HJ 1021-2019								
石油烃 (C ₁₀ -C ₄₀)	LB2339990	mg/kg	6	35	38.75	90.5	70%	120%
石油烃 (C ₁₀ -C ₄₀)	LB2339992	mg/kg	6	41	38.75	107	70%	120%

土壤和沉积物 有机磷类和拟除虫菊酯类等47种农药的测定 气相色谱-质谱法 方法: HJ 1023-2019								
溴氰菊酯	LB2340375	mg/kg	0.8	0.9	1	93.5	55%	140%
溴氰菊酯	LB2340376	mg/kg	0.8	0.8	1	84.4	55%	140%
氟虫腈	LB2340375	mg/kg	0.3	0.9	1	94.5	55%	140%
氟虫腈	LB2340376	mg/kg	0.3	0.9	1	91.6	55%	140%

土壤和沉积物 六价格的测定 碱溶液提取-火焰原子吸收分光光度法 方法: HJ 1082-2019								
六价格	LB2340130	mg/kg	0.5	11.6	12	96.7	80%	120%
六价格	LB2340131	mg/kg	0.5	10.3	12	85.8	80%	120%

土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法: HJ 605-2011								
甲苯-d8	LB2340573	%	-	102	100	102	70	130
甲苯-d8	LB2340574	%	-	108	100	108	70	130
4-溴氟苯	LB2340573	%	-	94	100	93.8	70	130
4-溴氟苯	LB2340574	%	-	102	100	102	70	130
二溴一氟甲烷	LB2340573	%	-	126	100	126	70	130
二溴一氟甲烷	LB2340574	%	-	116	100	116	70	130
四氯化碳	LB2340573	mg/kg	0.05	1.28	1	128	70%	130%
四氯化碳	LB2340574	mg/kg	0.05	1.19	1	119	70%	130%
氯仿	LB2340573	mg/kg	0.05	1.22	1	122	70%	130%
氯仿	LB2340574	mg/kg	0.05	0.99	1	99.3	70%	130%
氯甲烷	LB2340573	mg/kg	0.5	5.1	5	103	70%	130%
氯甲烷	LB2340574	mg/kg	0.5	5.1	5	103	70%	130%



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实验室控制样品 (LCS)

实验室控制样品回收率%=测定值*100/参考值。

参数	QC批号	单位	检出限	测定值	参考值	回收率%	控制范围	
							下限	上限

土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 605-2011(继续)

1,1-二氯乙烷	LB2340573	mg/kg	0.05	1.21	1	121	70%	130%
1,1-二氯乙烷	LB2340574	mg/kg	0.05	1.22	1	122	70%	130%
1,2-二氯乙烷	LB2340573	mg/kg	0.05	1.22	1	122	70%	130%
1,2-二氯乙烷	LB2340574	mg/kg	0.05	1.11	1	111	70%	130%
1,1-二氯乙烯	LB2340573	mg/kg	0.5	1.3	1	125	70%	130%
1,1-二氯乙烯	LB2340574	mg/kg	0.5	1.2	1	120	70%	130%
顺-1,2-二氯乙烯	LB2340573	mg/kg	0.05	1.13	1	113	70%	130%
顺-1,2-二氯乙烯	LB2340574	mg/kg	0.05	1.13	1	113	70%	130%
反-1,2-二氯乙烯	LB2340573	mg/kg	0.05	1.14	1	114	70%	130%
反-1,2-二氯乙烯	LB2340574	mg/kg	0.05	1.13	1	113	70%	130%
二氯甲烷	LB2340573	mg/kg	0.5	1.3	1	128	70%	130%
二氯甲烷	LB2340574	mg/kg	0.5	1.0	1	95.9	70%	130%
1,2-二氯丙烷	LB2340573	mg/kg	0.05	0.85	1	85.4	70%	130%
1,2-二氯丙烷	LB2340574	mg/kg	0.05	0.71	1	71.3	70%	130%
1,1,1,2-四氯乙烷	LB2340573	mg/kg	0.05	1.06	1	106	70%	130%
1,1,1,2-四氯乙烷	LB2340574	mg/kg	0.05	0.91	1	90.9	70%	130%
1,1,2,2-四氯乙烷	LB2340573	mg/kg	0.05	1.13	1	113	70%	130%
1,1,2,2-四氯乙烷	LB2340574	mg/kg	0.05	0.80	1	79.7	70%	130%
四氯乙烯	LB2340573	mg/kg	0.05	1.27	1	127	70%	130%
四氯乙烯	LB2340574	mg/kg	0.05	1.05	1	105	70%	130%
1,1,1-三氯乙烷	LB2340573	mg/kg	0.05	1.28	1	128	70%	130%
1,1,1-三氯乙烷	LB2340574	mg/kg	0.05	1.20	1	120	70%	130%
1,1,2-三氯乙烷	LB2340573	mg/kg	0.05	1.08	1	108	70%	130%
1,1,2-三氯乙烷	LB2340574	mg/kg	0.05	0.92	1	92.5	70%	130%
三氯乙烯	LB2340573	mg/kg	0.05	1.00	1	100	70%	130%
三氯乙烯	LB2340574	mg/kg	0.05	0.75	1	75.0	70%	130%
1,2,3-三氯丙烷	LB2340573	mg/kg	0.02	1.25	1	125	70%	130%
1,2,3-三氯丙烷	LB2340574	mg/kg	0.02	0.94	1	94.0	70%	130%
氯乙烷	LB2340573	mg/kg	0.04	4.70	5	93.9	70%	130%
氯乙烷	LB2340574	mg/kg	0.04	5.21	5	104	70%	130%
苯	LB2340573	mg/kg	0.05	1.05	1	105	70%	130%
苯	LB2340574	mg/kg	0.05	0.96	1	96.0	70%	130%
氯苯	LB2340573	mg/kg	0.05	1.05	1	105	70%	130%



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							下限	上限

土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法: HJ 605-2011(继续)

氯苯	LB2340574	mg/kg	0.05	0.77	1	77.2	70%	130%
1,2-二氯苯	LB2340573	mg/kg	0.05	1.07	1	107	70%	130%
1,2-二氯苯	LB2340574	mg/kg	0.05	1.26	1	126	70%	130%
1,4-二氯苯	LB2340573	mg/kg	0.05	1.07	1	107	70%	130%
1,4-二氯苯	LB2340574	mg/kg	0.05	0.91	1	91.4	70%	130%
乙苯	LB2340573	mg/kg	0.05	0.94	1	94.3	70%	130%
乙苯	LB2340574	mg/kg	0.05	0.79	1	78.9	70%	130%
苯乙烯	LB2340573	mg/kg	0.05	0.88	1	88.5	70%	130%
苯乙烯	LB2340574	mg/kg	0.05	0.79	1	78.6	70%	130%
甲苯	LB2340573	mg/kg	0.05	1.07	1	107	70%	130%
甲苯	LB2340574	mg/kg	0.05	0.89	1	89.1	70%	130%
间&对-二甲苯	LB2340573	mg/kg	0.05	2.08	2	104	70%	130%
间&对-二甲苯	LB2340574	mg/kg	0.05	1.64	2	82.2	70%	130%
邻-二甲苯	LB2340573	mg/kg	0.05	0.84	1	84.0	70%	130%
邻-二甲苯	LB2340574	mg/kg	0.05	0.70	1	70.4	70%	130%
萘	LB2340573	mg/kg	0.05	0.75	1	75.2	70%	130%
萘	LB2340574	mg/kg	0.05	1.19	1	119	70%	130%

土壤和沉积物 12种金属元素的测定 王水提取-电感耦合等离子体质谱法 方法: HJ 803-2016

砷	LB2340189	mg/kg	0.6	8.9	10	89.0	80%	120%
砷	LB2340190	mg/kg	0.6	9.0	10	89.6	80%	120%

土壤和沉积物 半挥发性有机物的测定 气相色谱-质谱法 方法: HJ 834-2017

2-氟苯酚	LB2340373	%	-	73	100	73.2	28	104
2-氟苯酚	LB2340374	%	-	65	100	64.8	28	104
苯酚-d6	LB2340373	%	-	69	100	68.7	50	70
苯酚-d6	LB2340374	%	-	67	100	67.2	50	70
硝基苯-d5	LB2340373	%	-	72	100	71.7	45	77
硝基苯-d5	LB2340374	%	-	74	100	73.8	45	77
2-氟联苯	LB2340374	%	-	84	100	83.7	52	88
2-氟联苯	LB2340373	%	-	84	100	84.0	52	88
对-三联苯-d14	LB2340373	%	-	101	100	101	33	137
对-三联苯-d14	LB2340374	%	-	89	100	88.8	33	137
硝基苯	LB2340373	mg/kg	0.09	0.38	0.5	75.0	40%	140%
硝基苯	LB2340374	mg/kg	0.09	0.41	0.5	82.5	40%	140%



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实验室控制样品 (LCS)

实验室控制样品回收率%=测定值*100/参考值。

参数	QC批号	单位	检出限	测定值	参考值	回收率%	控制范围	
							下限	上限
土壤和沉积物 半挥发性有机物的测定 气相色谱—质谱法 方法：HJ 834-2017(继续)								
苯胺	LB2340373	mg/kg	0.1	0.2	0.5	36.4	30%	70%
苯胺	LB2340374	mg/kg	0.1	0.2	0.5	31.6	30%	70%
2-氯苯酚	LB2340374	mg/kg	0.06	0.36	0.5	71.2	40%	140%
2-氯苯酚	LB2340373	mg/kg	0.06	0.40	0.5	79.4	40%	140%
苯并(a)蒽	LB2340373	mg/kg	0.1	0.5	0.5	94.4	70%	130%
苯并(a)蒽	LB2340374	mg/kg	0.1	0.4	0.5	85.2	70%	130%
苯并(a)芘	LB2340373	mg/kg	0.1	0.4	0.5	82.0	70%	130%
苯并(a)芘	LB2340374	mg/kg	0.1	0.4	0.5	85.6	70%	130%
苯并(b)荧蒽	LB2340373	mg/kg	0.2	0.4	0.5	82.5	70%	130%
苯并(b)荧蒽	LB2340374	mg/kg	0.2	0.4	0.5	85.6	70%	130%
苯并(k)荧蒽	LB2340374	mg/kg	0.1	0.4	0.5	88.4	70%	130%
苯并(k)荧蒽	LB2340373	mg/kg	0.1	0.4	0.5	85.2	70%	130%
蒽	LB2340373	mg/kg	0.1	0.5	0.5	94.8	70%	130%
蒽	LB2340374	mg/kg	0.1	0.4	0.5	84.2	70%	130%
二苯并(a,h)蒽	LB2340374	mg/kg	0.1	0.4	0.5	75.9	70%	130%
二苯并(a,h)蒽	LB2340373	mg/kg	0.1	0.4	0.5	84.2	70%	130%
茚并(1,2,3-cd)芘	LB2340373	mg/kg	0.1	0.4	0.5	83.4	70%	130%
茚并(1,2,3-cd)芘	LB2340374	mg/kg	0.1	0.4	0.5	77.0	70%	130%

实验室控制样品回收率评价：本批次测试的实验室控制样品回收率结果均在控制范围内，符合实验室质量控制要求。

有证物质 (CRM)

参数	QC批号	单位	检出限	测定值	证书编号	标准值	控制范围	
							下限	上限
土壤质量 铅、镉的测定 石墨炉原子吸收分光光度法 方法：GB/T 17141-1997								
铅	LB2340467	mg/kg	0.1	29	GBW07452	28	27	29
铅	LB2340469	mg/kg	0.1	28	GBW07452	28	27	29
镉	LB2340467	mg/kg	0.01	0.16	GBW07452	0.15	0.13	0.17
镉	LB2340469	mg/kg	0.01	0.16	GBW07452	0.15	0.13	0.17
土壤和沉积物 铜、锌、铅、镍、铬的测定 火焰原子吸收分光光度法 方法：HJ 491-2019								
铜	LB2340470	mg/kg	1	32.1	GBW07452	32	27.2	36.8



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有证物质 (CRM)

参数	QC批号	单位	检出限	测定值	证书编号	标准值	控制范围	
							下限	上限
土壤和沉积物 铜、锌、铅、镉、铬的测定 火焰原子吸收分光光度法 方法：HJ 491-2019(继续)								
铜	LB2340471	mg/kg	1	32.7	GBW07452	32	27.2	36.8
镍	LB2340470	mg/kg	3	34.3	GBW07452	38	32.3	43.7
镍	LB2340471	mg/kg	3	35.2	GBW07452	38	32.3	43.7
土壤 总氟化物的测定 离子选择电极法 方法：HJ 873-2017								
总氟化物(以F计)	LB2340628	mg/kg	63	576	GBW07454 (GSS-25)	561	518	604
总氟化物(以F计)	LB2340629	mg/kg	63	550	GBW07454 (GSS-25)	561	518	604
总氟化物(以F计)	LB2340630	mg/kg	63	554	GBW07454 (GSS-25)	561	518	604
土壤和沉积物 总汞的测定 催化热解-冷原子吸收分光光度法 方法：HJ 923-2017								
汞	LB2340264	µg/kg	0.2	59	GBW07452	58	53	63
汞	LB2340265	µg/kg	0.2	53	GBW07452	58	53	63

实验室有证物质结果评价：本批次测试的有证物质结果均在控制范围内，符合实验室质量控制要求。

实验室平行样 (DUP)

平行样的相对偏差(RD)%=|样品测定值-平行样测定值|*100/(样品测定值+平行样测定值)。

参数	样品号	单位	检出限	样品测定值	平行样测定值	RD%	RD控制范围%	替代物控制范围
土壤质量 铅、镉的测定 石墨炉原子吸收分光光度法 方法：GB/T 17141-1997								
铅	SHE23-06798.001	mg/kg	0.1	16.1	16.4	1.0	≤20	-
铅	SHE23-06798.021	mg/kg	0.1	21.9	24.1	4.9	≤20	-
镉	SHE23-06798.001	mg/kg	0.01	0.07	0.07	3.2	≤20	-
镉	SHE23-06798.021	mg/kg	0.01	0.08	0.09	2.8	≤20	-
土壤和沉积物 石油烃(C10-C40)的测定 气相色谱法 方法：HJ 1021-2019								
石油烃 (C ₁₀ -C ₄₀)	SHE23-06798.001	mg/kg	6	22	29	14.5	≤25	-
石油烃 (C ₁₀ -C ₄₀)	SHE23-06798.021	mg/kg	6	25	17	19.0	≤25	-
土壤和沉积物 有机磷类和拟除虫菊酯类等47种农药的测定 气相色谱-质谱法 方法：HJ 1023-2019								
溴氰菊酯	SHE23-06798.001	mg/kg	0.8	<0.8	<0.8	0.0	≤30	-
溴氰菊酯	SHE23-06798.021	mg/kg	0.8	<0.8	<0.8	0.0	≤30	-
氟虫腈	SHE23-06798.001	mg/kg	0.3	4.2	4.1	1.5	≤30	-
氟虫腈	SHE23-06798.021	mg/kg	0.3	<0.3	<0.3	0.0	≤30	-
土壤和沉积物 六价铬的测定 碱溶液提取-火焰原子吸收分光光度法 方法：HJ 1082-2019								
六价铬	SHE23-06798.001	mg/kg	0.5	<0.5	<0.5	0.0	≤20	-
六价铬	SHE23-06798.021	mg/kg	0.5	<0.5	<0.5	0.0	≤20	-



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实验室平行样 (DUP)

平行样的相对偏差(RD)%=(样品测定值-平行样测定值)*100/(样品测定值+平行样测定值)。

参数	样品号	单位	检出限	样品测定值	平行样测定值	RD%	RD控制范围%	替代物控制范围
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土壤和沉积物 铜、锌、铅、镉、铬的测定 火焰原子吸收分光光度法 方法：HJ 491-2019

铜	SHE23-06798.001	mg/kg	1	13	13	0.8	≤20	-
铜	SHE23-06798.021	mg/kg	1	13	13	1.6	≤20	-
镍	SHE23-06798.001	mg/kg	3	17	14	10.0	≤20	-
镍	SHE23-06798.021	mg/kg	3	22	25	5.0	≤20	-

土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 605-2011

甲苯-d8	SHE23-06798.001	%	-	99.9	97.9	-	-	70-130
甲苯-d8	SHE23-06798.021	%	-	91.1	91.1	-	-	70-130
4-溴氟苯	SHE23-06798.001	%	-	121	121	-	-	70-130
4-溴氟苯	SHE23-06798.021	%	-	118	116	-	-	70-130
二溴一氟甲烷	SHE23-06798.001	%	-	103	106	-	-	70-130
二溴一氟甲烷	SHE23-06798.021	%	-	101	93	-	-	70-130
四氯化碳	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
四氯化碳	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
氯仿	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
氯仿	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
氯甲烷	SHE23-06798.001	mg/kg	0.5	<0.5	<0.5	0.0	≤25	-
氯甲烷	SHE23-06798.021	mg/kg	0.5	<0.5	<0.5	0.0	≤25	-
1,1-二氯乙烷	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,1-二氯乙烷	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,2-二氯乙烷	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,2-二氯乙烷	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,1-二氯乙烯	SHE23-06798.001	mg/kg	0.5	<0.5	<0.5	0.0	≤25	-
1,1-二氯乙烯	SHE23-06798.021	mg/kg	0.5	<0.5	<0.5	0.0	≤25	-
顺-1,2-二氯乙烯	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
顺-1,2-二氯乙烯	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
反-1,2-二氯乙烯	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
反-1,2-二氯乙烯	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
二氯甲烷	SHE23-06798.001	mg/kg	0.5	<0.5	<0.5	0.0	≤25	-
二氯甲烷	SHE23-06798.021	mg/kg	0.5	<0.5	<0.5	0.0	≤25	-
1,2-二氯丙烷	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,2-二氯丙烷	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,1,1,2-四氯乙烷	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,1,1,2-四氯乙烷	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-



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实验室平行样 (DUP)

平行样的相对偏差(RD)%=|样品测定值-平行样测定值|*100/(样品测定值+平行样测定值)。

参数	样品号	单位	检出限	样品测定值	平行样测定值	RD%	RD控制范围%	替代物控制范围
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土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 605-2011(继续)

1,1,2,2-四氯乙烷	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,1,2,2-四氯乙烷	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
四氯乙烯	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
四氯乙烯	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,1,1-三氯乙烷	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,1,1-三氯乙烷	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,1,2-三氯乙烷	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,1,2-三氯乙烷	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
三氯乙烯	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
三氯乙烯	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,2,3-三氯丙烷	SHE23-06798.001	mg/kg	0.02	<0.02	<0.02	0.0	≤25	-
1,2,3-三氯丙烷	SHE23-06798.021	mg/kg	0.02	<0.02	<0.02	0.0	≤25	-
氯乙烯	SHE23-06798.001	mg/kg	0.04	<0.04	<0.04	0.0	≤25	-
氯乙烯	SHE23-06798.021	mg/kg	0.04	<0.04	<0.04	0.0	≤25	-
苯	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
苯	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
氯苯	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
氯苯	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,2-二氯苯	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,2-二氯苯	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,4-二氯苯	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
1,4-二氯苯	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
乙苯	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
乙苯	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
苯乙烯	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
苯乙烯	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
甲苯	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
甲苯	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
间&对-二甲苯	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
间&对-二甲苯	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
邻-二甲苯	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
邻-二甲苯	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
萘	SHE23-06798.001	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-



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实验室平行样 (DUP)

平行样的相对偏差(RD)%=|样品测定值-平行样测定值|*100/(样品测定值+平行样测定值)。

参数	样品号	单位	检出限	样品测定值	平行样测定值	RD%	RD控制范围%	替代物控制范围
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土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 605-2011(继续)

苯	SHE23-06798.021	mg/kg	0.05	<0.05	<0.05	0.0	≤25	-
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土壤和沉积物 12种金属元素的测定 王水提取-电感耦合等离子体质谱法 方法：HJ 803-2016

砷	SHE23-06798.001	mg/kg	0.6	4.7	3.9	10.2	≤30	-
砷	SHE23-06798.011	mg/kg	0.6	5.8	3.6	24.0	≤30	-
砷	SHE23-06798.021	mg/kg	0.6	4.4	5.7	13.1	≤30	-

土壤和沉积物 半挥发性有机物的测定 气相色谱—质谱法 方法：HJ 834-2017

2-氟苯酚	SHE23-06798.001	%	-	48	62	-	-	28-104
2-氟苯酚	SHE23-06798.021	%	-	59	47	-	-	28-104
苯酚-d6	SHE23-06798.001	%	-	56	70	-	-	50-70
苯酚-d6	SHE23-06798.021	%	-	62	50	-	-	50-70
硝基苯-d5	SHE23-06798.001	%	-	50	68	-	-	45-77
硝基苯-d5	SHE23-06798.021	%	-	55	56	-	-	45-77
2-氟联苯	SHE23-06798.001	%	-	58	72	-	-	52-88
2-氟联苯	SHE23-06798.021	%	-	58	63	-	-	52-88
对-三联苯-d14	SHE23-06798.001	%	-	77	83	-	-	33-137
对-三联苯-d14	SHE23-06798.021	%	-	67	76	-	-	33-137
硝基苯	SHE23-06798.001	mg/kg	0.09	<0.09	<0.09	0.0	≤40	-
硝基苯	SHE23-06798.021	mg/kg	0.09	<0.09	<0.09	0.0	≤40	-
苯胺	SHE23-06798.001	mg/kg	0.1	<0.1	<0.1	0.0	≤40	-
苯胺	SHE23-06798.021	mg/kg	0.1	<0.1	<0.1	0.0	≤40	-
2-氯苯酚	SHE23-06798.001	mg/kg	0.06	<0.06	<0.06	0.0	≤40	-
2-氯苯酚	SHE23-06798.021	mg/kg	0.06	<0.06	<0.06	0.0	≤40	-
苯并(a)蒽	SHE23-06798.001	mg/kg	0.1	<0.1	<0.1	0.0	≤40	-
苯并(a)蒽	SHE23-06798.021	mg/kg	0.1	<0.1	<0.1	0.0	≤40	-
苯并(a)芘	SHE23-06798.001	mg/kg	0.1	<0.1	<0.1	0.0	≤40	-
苯并(a)芘	SHE23-06798.021	mg/kg	0.1	<0.1	<0.1	0.0	≤40	-
苯并(b)荧蒽	SHE23-06798.001	mg/kg	0.2	<0.2	<0.2	0.0	≤40	-
苯并(b)荧蒽	SHE23-06798.021	mg/kg	0.2	<0.2	<0.2	0.0	≤40	-
苯并(k)荧蒽	SHE23-06798.001	mg/kg	0.1	<0.1	<0.1	0.0	≤40	-
苯并(k)荧蒽	SHE23-06798.021	mg/kg	0.1	<0.1	<0.1	0.0	≤40	-
蒽	SHE23-06798.001	mg/kg	0.1	<0.1	<0.1	0.0	≤40	-
蒽	SHE23-06798.021	mg/kg	0.1	<0.1	<0.1	0.0	≤40	-
二苯并(a,h)蒽	SHE23-06798.001	mg/kg	0.1	<0.1	<0.1	0.0	≤40	-



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实验室平行样 (DUP)

平行样的相对偏差(RD)%=|样品测定值-平行样测定值|*100/(样品测定值+平行样测定值)。

参数	样品号	单位	检出限	样品测定值	平行样测定值	RD%	RD控制范围%	替代物控制范围
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土壤和沉积物 半挥发性有机物的测定 气相色谱—质谱法 方法：HJ 834-2017(继续)

二苯并(a,h)蒽	SHE23-06798.021	mg/kg	0.1	<0.1	<0.1	0.0	≤40	-
茚并(1,2,3-cd)芘	SHE23-06798.001	mg/kg	0.1	<0.1	<0.1	0.0	≤40	-
茚并(1,2,3-cd)芘	SHE23-06798.021	mg/kg	0.1	<0.1	<0.1	0.0	≤40	-

土壤 总氟化物的测定 离子选择电极法 方法：HJ 873-2017

总氟化物(以F计)	SHE23-06798.001	mg/kg	63	364	267	15.4	≤20	-
总氟化物(以F计)	SHE23-06798.011	mg/kg	63	331	326	0.8	≤20	-
总氟化物(以F计)	SHE23-06798.021	mg/kg	63	256	249	1.4	≤20	-

土壤和沉积物 总汞的测定 催化热解-冷原子吸收分光光度法 方法：HJ 923-2017

汞	SHE23-06798.001	μg/kg	0.2	12.4	16.9	15.4	≤25	-
汞	SHE23-06798.021	μg/kg	0.2	19.1	18.6	1.4	≤25	-

平行双样相对偏差结果评价：本批次测试的实验室平行样相对偏差均在控制范围内，符合实验室质量控制要求。

平行样的差值=|样品测定值-平行样测定值|

参数	样品号	单位	检出限	样品测定值	平行样测定值	差值	允许差值	替代物控制范围
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土壤 pH值的测定 电位法 方法：HJ 962-2018

pH	SHE23-06798.001	无量纲	-	8.33	8.47	0.14	≤0.3	-
pH	SHE23-06798.011	无量纲	-	9.54	9.56	0.02	≤0.3	-
pH	SHE23-06798.021	无量纲	-	8.56	8.54	0.02	≤0.3	-

平行样允许差值评价：本批次测试的实验室平行样差值在控制范围内，符合实验室质量控制要求。

基质加标(MS)

基质加标回收率%=(基质加标测定值-样品测定值) *100/基质加标量 (相关系数带入计算)。

参数	样品号	单位	检出限	样品测定值	MS测定值	基质加标量	回收率%	控制范围
								下限 上限

土壤和沉积物 石油烃(C10-C40)的测定 气相色谱法 方法：HJ 1021-2019

石油烃 (C ₁₀ -C ₄₀)	SHE23-06798.021	mg/kg	6	21	45	38.75	62.4	50% 140%
石油烃 (C ₁₀ -C ₄₀)	SHE23-06798.001	mg/kg	6	25	53	38.75	72.7	50% 140%

土壤和沉积物 有机磷类和拟除虫菊酯类等47种农药的测定 气相色谱-质谱法 方法：HJ 1023-2019

溴氰菊酯	SHE23-06798.021	mg/kg	0.8	<0.8	<0.8	1	65.8	55% 140%
溴氰菊酯	SHE23-06798.001	mg/kg	0.8	<0.8	<0.8	1	68.0	55% 140%
氟虫腈	SHE23-06798.021	mg/kg	0.3	<0.3	0.9	1	90.2	55% 140%

土壤和沉积物 六价铬的测定 碱溶液提取-火焰原子吸收分光光度法 方法：HJ 1082-2019

六价铬	SHE23-06798.021	mg/kg	0.5	<0.5	11.3	12	92.3	70% 130%
六价铬	SHE23-06798.001	mg/kg	0.5	<0.5	11.6	12	94.0	70% 130%



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基质加标(MS)

基质加标回收率%=(基质加标测定值-样品测定值)*100/基质加标量(相关系数带入计算)。

参数	样品号	单位	检出限	样品测定值	MS测定值	基质加标量	回收率%	控制范围	
								下限	上限

土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法: HJ 605-2011

甲苯-d8	SHE23-06798.021	%	-	91.1	83.0	100	83.0	70	130
甲苯-d8	SHE23-06798.001	%	-	98.9	107	100	107	70	130
4-溴氟苯	SHE23-06798.021	%	-	117	99	100	98.5	70	130
4-溴氟苯	SHE23-06798.001	%	-	121	103	100	103	70	130
二溴一氟甲烷	SHE23-06798.021	%	-	97	112	100	112	70	130
二溴一氟甲烷	SHE23-06798.001	%	-	105	103	100	103	70	130
四氯化碳	SHE23-06798.021	mg/kg	0.05	<0.05	1.05	1	105	50%	150%
四氯化碳	SHE23-06798.001	mg/kg	0.05	<0.05	1.26	1	126	50%	150%
氯仿	SHE23-06798.021	mg/kg	0.05	<0.05	1.01	1	101	50%	150%
氯仿	SHE23-06798.001	mg/kg	0.05	<0.05	1.07	1	107	50%	150%
氯甲烷	SHE23-06798.021	mg/kg	0.5	<0.5	3.9	5	77.4	50%	150%
氯甲烷	SHE23-06798.001	mg/kg	0.5	<0.5	4.2	5	83.8	50%	150%
1,1-二氯乙烷	SHE23-06798.021	mg/kg	0.05	<0.05	0.99	1	99.4	50%	150%
1,1-二氯乙烷	SHE23-06798.001	mg/kg	0.05	<0.05	1.27	1	127	50%	150%
1,2-二氯乙烷	SHE23-06798.021	mg/kg	0.05	<0.05	0.98	1	98.3	50%	150%
1,2-二氯乙烷	SHE23-06798.001	mg/kg	0.05	<0.05	1.14	1	114	50%	150%
1,1-二氯乙烯	SHE23-06798.021	mg/kg	0.5	<0.5	0.9	1	85.7	50%	150%
1,1-二氯乙烯	SHE23-06798.001	mg/kg	0.5	<0.5	1.1	1	115	50%	150%
顺-1,2-二氯乙烯	SHE23-06798.021	mg/kg	0.05	<0.05	0.93	1	93.2	50%	150%
顺-1,2-二氯乙烯	SHE23-06798.001	mg/kg	0.05	<0.05	1.24	1	124	50%	150%
反-1,2-二氯乙烯	SHE23-06798.021	mg/kg	0.05	<0.05	0.93	1	93.3	50%	150%
反-1,2-二氯乙烯	SHE23-06798.001	mg/kg	0.05	<0.05	1.13	1	113	50%	150%
二氯甲烷	SHE23-06798.021	mg/kg	0.5	<0.5	1.1	1	106	50%	150%
二氯甲烷	SHE23-06798.001	mg/kg	0.5	<0.5	1.0	1	95.0	50%	150%
1,2-二氯丙烷	SHE23-06798.021	mg/kg	0.05	<0.05	0.79	1	79.4	50%	150%
1,2-二氯丙烷	SHE23-06798.001	mg/kg	0.05	<0.05	1.19	1	119	50%	150%
1,1,1,2-四氯乙烷	SHE23-06798.021	mg/kg	0.05	<0.05	0.78	1	77.9	50%	150%
1,1,1,2-四氯乙烷	SHE23-06798.001	mg/kg	0.05	<0.05	0.98	1	97.8	50%	150%
1,1,2,2-四氯乙烷	SHE23-06798.021	mg/kg	0.05	<0.05	0.83	1	82.7	50%	150%
1,1,2,2-四氯乙烷	SHE23-06798.001	mg/kg	0.05	<0.05	0.80	1	80.1	50%	150%
四氯乙烯	SHE23-06798.021	mg/kg	0.05	<0.05	0.91	1	91.3	50%	150%
四氯乙烯	SHE23-06798.001	mg/kg	0.05	<0.05	1.14	1	114	50%	150%
1,1,1-三氯乙烷	SHE23-06798.021	mg/kg	0.05	<0.05	0.96	1	95.5	50%	150%
1,1,1-三氯乙烷	SHE23-06798.001	mg/kg	0.05	<0.05	1.29	1	129	50%	150%
1,1,2-三氯乙烷	SHE23-06798.021	mg/kg	0.05	<0.05	0.77	1	77.3	50%	150%
1,1,2-三氯乙烷	SHE23-06798.001	mg/kg	0.05	<0.05	1.01	1	101	50%	150%



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基质加标(MS)

基质加标回收率%=(基质加标测定值-样品测定值) *100/基质加标量 (相关系数带入计算)。

参数	样品号	单位	检出限	样品测定值	MS测定值	基质加标量	回收率%	控制范围	
								下限	上限

土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 605-2011(继续)

三氯乙烯	SHE23-06798.021	mg/kg	0.05	<0.05	0.96	1	96.1	50%	150%
三氯乙烯	SHE23-06798.001	mg/kg	0.05	<0.05	0.92	1	92.2	50%	150%
1,2,3-三氯丙烷	SHE23-06798.021	mg/kg	0.02	<0.02	0.91	1	91.1	50%	150%
1,2,3-三氯丙烷	SHE23-06798.001	mg/kg	0.02	<0.02	1.07	1	107	50%	150%
氯乙烯	SHE23-06798.021	mg/kg	0.04	<0.04	4.33	5	86.6	50%	150%
氯乙烯	SHE23-06798.001	mg/kg	0.04	<0.04	4.48	5	89.7	50%	150%
苯	SHE23-06798.021	mg/kg	0.05	<0.05	0.84	1	84.5	50%	150%
苯	SHE23-06798.001	mg/kg	0.05	<0.05	1.12	1	112	50%	150%
氯苯	SHE23-06798.021	mg/kg	0.05	<0.05	0.84	1	83.8	50%	150%
氯苯	SHE23-06798.001	mg/kg	0.05	<0.05	0.96	1	96.2	50%	150%
1,2-二氯苯	SHE23-06798.021	mg/kg	0.05	<0.05	0.81	1	80.8	50%	150%
1,2-二氯苯	SHE23-06798.001	mg/kg	0.05	<0.05	1.00	1	99.8	50%	150%
1,4-二氯苯	SHE23-06798.021	mg/kg	0.05	<0.05	0.85	1	84.7	50%	150%
1,4-二氯苯	SHE23-06798.001	mg/kg	0.05	<0.05	1.06	1	106	50%	150%
乙苯	SHE23-06798.021	mg/kg	0.05	<0.05	0.78	1	77.6	50%	150%
乙苯	SHE23-06798.001	mg/kg	0.05	<0.05	1.00	1	100	50%	150%
苯乙烯	SHE23-06798.021	mg/kg	0.05	<0.05	0.79	1	79.1	50%	150%
苯乙烯	SHE23-06798.001	mg/kg	0.05	<0.05	1.08	1	108	50%	150%
甲苯	SHE23-06798.021	mg/kg	0.05	<0.05	0.71	1	71.0	50%	150%
甲苯	SHE23-06798.001	mg/kg	0.05	<0.05	1.04	1	104	50%	150%
间&对-二甲苯	SHE23-06798.021	mg/kg	0.05	<0.05	1.72	2	86.0	50%	150%
间&对-二甲苯	SHE23-06798.001	mg/kg	0.05	<0.05	2.16	2	108	50%	150%
邻-二甲苯	SHE23-06798.021	mg/kg	0.05	<0.05	0.74	1	74.4	50%	150%
邻-二甲苯	SHE23-06798.001	mg/kg	0.05	<0.05	0.95	1	94.6	50%	150%
萘	SHE23-06798.021	mg/kg	0.05	<0.05	0.76	1	76.2	50%	150%
萘	SHE23-06798.001	mg/kg	0.05	<0.05	0.88	1	87.7	50%	150%

土壤和沉积物 12种金属元素的测定 王水提取-电感耦合等离子体质谱法 方法：HJ 803-2016

砷	SHE23-06798.011	mg/kg	0.6	4.7	11.9	10	70.1	70%	125%
砷	SHE23-06798.001	mg/kg	0.6	4.3	12.3	10	78.1	70%	125%
砷	SHE23-06798.021	mg/kg	0.6	5.1	14.7	10	94.4	70%	125%

土壤和沉积物 半挥发性有机物的测定 气相色谱-质谱法 方法：HJ 834-2017

2-氟苯酚	SHE23-06798.001	%	-	55	75	100	75.0	28	104
2-氟苯酚	SHE23-06798.021	%	-	53	58	100	58.5	28	104
苯酚-d6	SHE23-06798.001	%	-	63	64	100	64.5	50	70
苯酚-d6	SHE23-06798.021	%	-	56	61	100	60.6	50	70
硝基苯-d5	SHE23-06798.001	%	-	59	68	100	68.1	45	77
硝基苯-d5	SHE23-06798.021	%	-	55	72	100	71.7	45	77



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基质加标(MS)

基质加标回收率%=(基质加标测定值-样品测定值)*100/基质加标量(相关系数带入计算)。

参数	样品号	单位	检出限	样品测定值	MS测定值	基质加标量	回收率%	控制范围	
								下限	上限

土壤和沉积物 半挥发性有机物的测定 气相色谱-质谱法 方法: HJ 834-2017(继续)

2-氟联苯	SHE23-06798.021	%	-	61	82	100	81.6	52	88
2-氟联苯	SHE23-06798.001	%	-	65	76	100	75.6	52	88
对-三联苯-d14	SHE23-06798.001	%	-	80	98	100	97.5	33	137
对-三联苯-d14	SHE23-06798.021	%	-	71	91	100	90.9	33	137
硝基苯	SHE23-06798.001	mg/kg	0.09	<0.09	0.35	0.5	70.0	38%	90%
硝基苯	SHE23-06798.021	mg/kg	0.09	<0.09	0.37	0.5	74.1	38%	90%
苯胺	SHE23-06798.001	mg/kg	0.1	<0.1	0.2	0.5	34.5	30%	70%
苯胺	SHE23-06798.021	mg/kg	0.1	<0.1	0.2	0.5	43.4	30%	70%
2-氯苯酚	SHE23-06798.001	mg/kg	0.06	<0.06	0.43	0.5	85.6	35%	87%
2-氯苯酚	SHE23-06798.021	mg/kg	0.06	<0.06	0.37	0.5	74.1	35%	87%
苯并(a)蒽	SHE23-06798.021	mg/kg	0.1	<0.1	0.4	0.5	83.4	73%	121%
苯并(a)蒽	SHE23-06798.001	mg/kg	0.1	<0.1	0.5	0.5	91.4	73%	121%
苯并(a)芘	SHE23-06798.001	mg/kg	0.1	<0.1	0.4	0.5	76.0	45%	105%
苯并(a)芘	SHE23-06798.021	mg/kg	0.1	<0.1	0.4	0.5	79.5	45%	105%
苯并(b)荧蒽	SHE23-06798.001	mg/kg	0.2	<0.2	0.4	0.5	77.8	59%	131%
苯并(b)荧蒽	SHE23-06798.021	mg/kg	0.2	<0.2	0.4	0.5	82.5	59%	131%
苯并(k)荧蒽	SHE23-06798.001	mg/kg	0.1	<0.1	0.4	0.5	79.8	74%	114%
苯并(k)荧蒽	SHE23-06798.021	mg/kg	0.1	<0.1	0.4	0.5	83.0	74%	114%
蒽	SHE23-06798.021	mg/kg	0.1	<0.1	0.4	0.5	89.7	54%	122%
蒽	SHE23-06798.001	mg/kg	0.1	<0.1	0.5	0.5	94.0	54%	122%
二苯并(a,h)蒽	SHE23-06798.021	mg/kg	0.1	<0.1	0.4	0.5	76.2	64%	128%
二苯并(a,h)蒽	SHE23-06798.001	mg/kg	0.1	<0.1	0.4	0.5	75.8	64%	128%
茚并(1,2,3-cd)芘	SHE23-06798.001	mg/kg	0.1	<0.1	0.4	0.5	76.6	52%	132%
茚并(1,2,3-cd)芘	SHE23-06798.021	mg/kg	0.1	<0.1	0.4	0.5	75.8	52%	132%

基质加标回收率评价: 本批次测试的基质加标回收率结果均在控制范围内, 符合实验室质量控制要求。

基质加标平行样(MSD)

基质加标平行样的相对偏差(RD)%=|样品基质加标回收率%-平行样基质加标回收率%|*100/(样品基质加标回收率%+平行样基质加标回收率%)。

参数	样品号	单位	检出限	样品基质	平行样基质	RD%	RD控制范围%	替代物控制范围
				加标回收率%	加标回收率%			

土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法: HJ 605-2011

甲苯-d8	SHE23-06798.021	%	-	83.0	102	-	-	70-130
甲苯-d8	SHE23-06798.001	%	-	107	103	-	-	70-130



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基质加标平行样(MSD)

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参数	样品号	单位	检出限	样品基质加标回收率%	平行样基质加标回收率%	RD%	RD控制范围%	替代物控制范围
土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 605-2011(继续)								
4-溴氟苯	SHE23-06798.021	%	-	98.5	97.4	-	-	70-130
4-溴氟苯	SHE23-06798.001	%	-	103	104	-	-	70-130
二溴一氟甲烷	SHE23-06798.021	%	-	112	110	-	-	70-130
二溴一氟甲烷	SHE23-06798.001	%	-	103	101	-	-	70-130
四氯化碳	SHE23-06798.021	mg/kg	0.05	105	104	0.2	≤25	-
四氯化碳	SHE23-06798.001	mg/kg	0.05	126	126	0.3	≤25	-
氯仿	SHE23-06798.021	mg/kg	0.05	101	86.4	7.8	≤25	-
氯仿	SHE23-06798.001	mg/kg	0.05	107	102	2.6	≤25	-
氯甲烷	SHE23-06798.021	mg/kg	0.5	77.4	73.6	2.5	≤25	-
氯甲烷	SHE23-06798.001	mg/kg	0.5	83.8	88.8	2.9	≤25	-
1,1-二氯乙烷	SHE23-06798.021	mg/kg	0.05	99.4	86.8	6.8	≤25	-
1,1-二氯乙烷	SHE23-06798.001	mg/kg	0.05	127	116	4.7	≤25	-
1,2-二氯乙烷	SHE23-06798.021	mg/kg	0.05	98.3	88.7	5.1	≤25	-
1,2-二氯乙烷	SHE23-06798.001	mg/kg	0.05	114	113	0.5	≤25	-
1,1-二氯乙烯	SHE23-06798.021	mg/kg	0.5	85.7	86.4	0.4	≤25	-
1,1-二氯乙烯	SHE23-06798.001	mg/kg	0.5	115	113	0.8	≤25	-
顺-1,2-二氯乙烯	SHE23-06798.021	mg/kg	0.05	93.2	76.8	9.6	≤25	-
顺-1,2-二氯乙烯	SHE23-06798.001	mg/kg	0.05	124	113	4.6	≤25	-
反-1,2-二氯乙烯	SHE23-06798.021	mg/kg	0.05	93.3	81.7	6.6	≤25	-
反-1,2-二氯乙烯	SHE23-06798.001	mg/kg	0.05	113	108	2.1	≤25	-
二氯甲烷	SHE23-06798.021	mg/kg	0.5	106	109	1.4	≤25	-
二氯甲烷	SHE23-06798.001	mg/kg	0.5	95.0	88.4	3.6	≤25	-
1,2-二氯丙烷	SHE23-06798.021	mg/kg	0.05	79.4	71.5	5.2	≤25	-
1,2-二氯丙烷	SHE23-06798.001	mg/kg	0.05	119	118	0.6	≤25	-
1,1,1,2-四氯乙烷	SHE23-06798.021	mg/kg	0.05	77.9	80.8	1.8	≤25	-
1,1,1,2-四氯乙烷	SHE23-06798.001	mg/kg	0.05	97.8	95.4	1.2	≤25	-
1,1,2,2-四氯乙烷	SHE23-06798.021	mg/kg	0.05	82.7	81.9	0.5	≤25	-
1,1,2,2-四氯乙烷	SHE23-06798.001	mg/kg	0.05	80.1	81.9	1.1	≤25	-
四氯乙烯	SHE23-06798.021	mg/kg	0.05	91.3	80.3	6.4	≤25	-
四氯乙烯	SHE23-06798.001	mg/kg	0.05	114	113	0.6	≤25	-
1,1,1-三氯乙烷	SHE23-06798.021	mg/kg	0.05	95.5	90.5	2.7	≤25	-
1,1,1-三氯乙烷	SHE23-06798.001	mg/kg	0.05	129	125	1.6	≤25	-



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参数	样品号	单位	检出限	样品基质加标回收率%	平行样基质加标回收率%	RD%	RD控制范围%	替代物控制范围
土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 605-2011(继续)								
1,1,2-三氯乙烷	SHE23-06798.021	mg/kg	0.05	77.3	80.4	2.0	≤25	-
1,1,2-三氯乙烷	SHE23-06798.001	mg/kg	0.05	101	98.7	1.2	≤25	-
三氯乙烯	SHE23-06798.021	mg/kg	0.05	96.1	84.2	6.6	≤25	-
三氯乙烯	SHE23-06798.001	mg/kg	0.05	92.2	123	14.4	≤25	-
1,2,3-三氯丙烷	SHE23-06798.021	mg/kg	0.02	91.1	89.6	0.8	≤25	-
1,2,3-三氯丙烷	SHE23-06798.001	mg/kg	0.02	107	109	1.0	≤25	-
氯乙烯	SHE23-06798.021	mg/kg	0.04	86.6	82.4	2.5	≤25	-
氯乙烯	SHE23-06798.001	mg/kg	0.04	89.7	89.9	0.1	≤25	-
苯	SHE23-06798.021	mg/kg	0.05	84.5	84.7	0.1	≤25	-
苯	SHE23-06798.001	mg/kg	0.05	112	111	0.5	≤25	-
氯苯	SHE23-06798.021	mg/kg	0.05	83.8	82.4	0.8	≤25	-
氯苯	SHE23-06798.001	mg/kg	0.05	96.2	95.0	0.6	≤25	-
1,2-二氯苯	SHE23-06798.021	mg/kg	0.05	80.8	78.7	1.3	≤25	-
1,2-二氯苯	SHE23-06798.001	mg/kg	0.05	99.8	99.2	0.3	≤25	-
1,4-二氯苯	SHE23-06798.021	mg/kg	0.05	84.7	83.6	0.7	≤25	-
1,4-二氯苯	SHE23-06798.001	mg/kg	0.05	106	105	0.3	≤25	-
乙苯	SHE23-06798.021	mg/kg	0.05	77.6	78.8	0.8	≤25	-
乙苯	SHE23-06798.001	mg/kg	0.05	100	99.3	0.5	≤25	-
苯乙烯	SHE23-06798.021	mg/kg	0.05	79.1	110	16.5	≤25	-
苯乙烯	SHE23-06798.001	mg/kg	0.05	108	107	0.2	≤25	-
甲苯	SHE23-06798.021	mg/kg	0.05	71.0	81.1	6.6	≤25	-
甲苯	SHE23-06798.001	mg/kg	0.05	104	100	1.9	≤25	-
间&对-二甲苯	SHE23-06798.021	mg/kg	0.05	86.0	107	10.8	≤25	-
间&对-二甲苯	SHE23-06798.001	mg/kg	0.05	108	109	0.7	≤25	-
邻-二甲苯	SHE23-06798.021	mg/kg	0.05	74.4	104	16.4	≤25	-
邻-二甲苯	SHE23-06798.001	mg/kg	0.05	94.6	95.8	0.6	≤25	-
萘	SHE23-06798.021	mg/kg	0.05	76.2	82.9	4.2	≤25	-
萘	SHE23-06798.001	mg/kg	0.05	87.7	97.1	5.1	≤25	-

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订单号 -
样品 土壤(21)
项目 -

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管理者 SGS-CSTC
实验室 环境实验室

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报告日期 2023/11/18
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备注

1. 结果适用于收到的样品。
2. 项目名称: 0689020。

报告批准人

李超然

陈颖

唐黎琦

报告编制

审核

批准人



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- "-" 未测试该参数或不适用/The parameter is not tested or not applicable
- ↑ 提高检出限/Detection limit raised
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		实验室编号	23-06799.001	23-06799.002	23-06799.003	23-06799.004	
		样品名称	1A01-005	1A01-020	1B01-005	1B01-025	
		检测类别	土壤	土壤	土壤	土壤	
		收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10	
		样品描述	砂土棕灰色	砂土棕灰色	砂土棕色	砂土灰色	
分析指标	方法	单位	检出限	检测结果			
N,N-二甲基甲酰胺	by GC/FID	mg/kg	2.5	ND	ND	ND	ND

		实验室编号	23-06799.005	23-06799.006	23-06799.007	23-06799.008	
		样品名称	1B02-010	1B02-030	1B02-045	1B02-060	
		检测类别	土壤	土壤	土壤	土壤	
		收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10	
		样品描述	砂土深灰色	砂土灰色	砂土灰色	砂土灰色	
分析指标	方法	单位	检出限	检测结果			
N,N-二甲基甲酰胺	by GC/FID	mg/kg	2.5	ND	ND	ND	ND

		实验室编号	23-06799.009	23-06799.010	23-06799.011	23-06799.012	
		样品名称	1C01-005	1C01-015	1C01-040	1D01-005	
		检测类别	土壤	土壤	土壤	土壤	
		收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10	
		样品描述	砂土灰色	砂土灰色	砂土灰色	砂土灰色	
分析指标	方法	单位	检出限	检测结果			
N,N-二甲基甲酰胺	by GC/FID	mg/kg	2.5	ND	ND	ND	ND

		实验室编号	23-06799.013	23-06799.014	23-06799.015	23-06799.016	
		样品名称	1D01-025	1D02-005	1D02-020	1D02-040	
		检测类别	土壤	土壤	土壤	土壤	
		收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10	
		样品描述	砂土土黄色	砂土灰色	砂土灰色	砂土灰色	
分析指标	方法	单位	检出限	检测结果			
N,N-二甲基甲酰胺	by GC/FID	mg/kg	2.5	ND	ND	ND	ND



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实验室编号	23-06799.017	23-06799.018	23-06799.019	23-06799.020
样品名称	1D02-060	DZS01-005	DZS01-030	DUP-1-S
检测类别	土壤	土壤	土壤	土壤
收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10
样品描述	砂土灰色	砂土灰色	砂土灰色	砂土灰色

分析指标	方法	单位	检出限	检测结果
N,N-二甲基甲酰胺	by GC/FID	mg/kg	2.5	ND

实验室编号	23-06799.021
样品名称	DUP-2-S
检测类别	土壤
收样日期	2023/11/10
样品描述	砂土灰色

分析指标	方法	单位	检出限	检测结果
N,N-二甲基甲酰胺	by GC/FID	mg/kg	2.5	ND



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方法列表

by GC/FID DMF 实验室内部方法



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方法:by GC/FID

仪器名称	型号	仪器编号	出厂序号
气相色谱仪-火焰离子化检测器/氮磷检测器	Agilent 6890N	CHEM-ENV072	US10449051



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方法空白(MB)

参数	QC批号	单位	检出限	MB	控制范围
DMF 实验室内部方法 方法：by GC/FID					
N,N-二甲基甲酰胺	LB2340593	mg/kg	2.5	<2.5	<2.5
N,N-二甲基甲酰胺	LB2340594	mg/kg	2.5	<2.5	<2.5

方法空白结果评价：本批次测试的方法空白均低于检出限，符合实验室质量控制要求。

实验室控制样品 (LCS)

实验室控制样品回收率%=测定值*100/参考值。

参数	QC批号	单位	检出限	测定值	参考值	回收率%	控制范围	
							下限	上限
DMF 实验室内部方法 方法：by GC/FID								
N,N-二甲基甲酰胺	LB2340593	mg/kg	2.5	12.2	10	122	50%	150%
N,N-二甲基甲酰胺	LB2340594	mg/kg	2.5	12.3	10	123	50%	150%

实验室控制样品回收率评价：本批次测试的实验室控制样品回收率结果均在控制范围内，符合实验室质量控制要求。

实验室平行样 (DUP)

平行样的相对偏差(RD)%=(样品测定值-平行样测定值)*100/(样品测定值+平行样测定值)。

参数	样品号	单位	检出限	样品测定值	平行样测定值	RD%	RD控制范围%	替代物控制范围
DMF 实验室内部方法 方法：by GC/FID								
N,N-二甲基甲酰胺	SHE23-06799.001	mg/kg	2.5	<2.5	<2.5	0.0	≤30	-
N,N-二甲基甲酰胺	SHE23-06799.021	mg/kg	2.5	<2.5	<2.5	0.0	≤30	-

平行双样相对偏差结果评价：本批次测试的实验室平行样相对偏差均在控制范围内，符合实验室质量控制要求。

基质加标(MS)

基质加标回收率%=(基质加标测定值-样品测定值)*100/基质加标量(相关系数带入计算)。

参数	样品号	单位	检出限	样品测定值	MS测定值	基质加标量	回收率%	控制范围
								下限 上限
DMF 实验室内部方法 方法：by GC/FID								



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基质加标(MS)

基质加标回收率%=(基质加标测定值-样品测定值) *100/基质加标量 (相关系数带入计算)。

参数	样品号	单位	检出限	样品测定值	MS测定值	基质加标量	回收率%	控制范围	
								下限	上限

DMF 实验室内部方法 方法：by GC/FID(继续)

N,N-二甲基甲酰胺	SHE23-06799.021	mg/kg	2.5	<2.5	10.5	10	105	50%	150%
N,N-二甲基甲酰胺	SHE23-06799.001	mg/kg	2.5	<2.5	9.8	10	97.8	50%	150%

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基质加标平行样(MSD)

基质加标平行样的相对偏差(RD)%=|样品基质加标回收率%-平行样基质加标回收率%|*100/(样品基质加标回收率%+平行样基质加标回收率%)。

参数	样品号	单位	检出限	样品基质加标回收率%	平行样基质加标回收率%	RD%	RD控制范围%	替代物控制范围
----	-----	----	-----	------------	-------------	-----	---------	---------

DMF 实验室内部方法 方法：by GC/FID

N,N-二甲基甲酰胺	SHE23-06799.001	mg/kg	2.5	97.8	88.0	5.2	≤30	-
N,N-二甲基甲酰胺	SHE23-06799.021	mg/kg	2.5	105	110	2.4	≤30	-

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SHE23-06799

检测报告

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 Email ling.zhu@erm.com
 订单号 -
 样品 空白(1)地下水(7)
 项目 -

实验室信息

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 报告编号 SHE23-06785 R0
 SGS编号 0000293889
 报告日期 2023/11/18
 分析日期 2023/11/10 - 2023/11/18

备注

1. 结果适用于收到的样品。
2. 项目名称：0689020。

报告批准人

李超然

陈颖

李超然

报告编制

审核

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Should you have any queries or objection to the test report, please contact us within 10 days after receiving the report.

符号表/Legend

- "-" 未测试该参数或不适用/The parameter is not tested or not applicable
- ↑ 提高检出限/Detection limit raised
- ↓ 降低检出限/Detection limit lowered
- ND 未检出/Not Detected



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实验室编号	23-06785.001	23-06785.002	23-06785.003	23-06785.004
样品名称	2A01-W	2B01-W	2B02-W	2C01-W
检测类别	地下水	地下水	地下水	地下水
收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10
样品描述	灰棕色浑浊	微黄微浑	灰棕色浑浊	微黄微浑

分析指标	方法	单位	检出限	检测结果			
高锰酸盐指数	GB/T 11892	O ₂ , mg/L	0.5	1.8	1.6	19.3	4.6
硫化物	APHA 4500-S ² -(D)	mg/L	0.005	ND	ND	ND	0.005
氯化物	HJ 84	mg/L	0.007	22.3	2.96	39.8	61.5
氟化物	HJ 84	mg/L	0.006	0.301	0.468	44.0	1.70
硫酸盐	HJ 84	mg/L	0.018	3.08	54.0	6.94	23.9
亚硝酸盐氮 (N计)	HJ 84	mg/L	0.005	0.074	0.035	ND	ND
硝酸盐氮 (N计)	HJ 84	mg/L	0.0036	0.129	0.0779	ND	0.0950
挥发酚 (苯酚计)	HJ 503	mg/L	0.0003	ND	ND	ND	ND
氨氮	HJ 535	mg/L	0.025	0.488	1.02	3.74	0.853
可吸附有机卤素	HJ 1214	mg/L	0.007	0.009	0.019	0.159	0.071
六价铬	DZ/T 0064.17	mg/L	0.004	ND	ND	ND	ND
汞	HJ 694	μg/L	0.04	ND	ND	ND	ND
砷	HJ 694	μg/L	0.3	3.3	6.4	127	14.5
镉	HJ 700	μg/L	0.05	ND	ND	ND	ND
铜	HJ 700	μg/L	0.08	1.46	0.46	2.51	1.29
锰	HJ 700	μg/L	0.12	196	351	197	578
铅	HJ 700	μg/L	0.09	ND	ND	0.26	ND
镍	HJ 700	μg/L	0.06	0.79	0.38	2.18	0.58
锌	HJ 700	μg/L	0.67	0.88	1.30	ND	ND
石油烃 (C ₁₀ -C ₄₀)	HJ 894	mg/L	0.01	0.03	0.03	0.03	0.04
替代物							
甲苯-d8	HJ 639	%	-	103	94.0	97.9	104
4-溴氟苯	HJ 639	%	-	122	119	119	119
二溴一氟甲烷	HJ 639	%	-	116	103	120	107
挥发性有机物							
苯	HJ 639	μg/L	1.4	ND	ND(<14.0)↑	ND	ND
甲苯	HJ 639	μg/L	1.4	ND	ND(<14.0)↑	ND	ND
乙苯	HJ 639	μg/L	0.8	ND	ND(<8.0)↑	ND	ND
苯乙烯	HJ 639	μg/L	0.6	ND	ND(<6.0)↑	ND	ND
间&对-二甲苯	HJ 639	μg/L	2.2	ND	ND(<22.0)↑	ND	ND
邻-二甲苯	HJ 639	μg/L	1.4	ND	ND(<14.0)↑	ND	ND
1,2-二氯丙烷	HJ 639	μg/L	1.2	ND	ND(<12.0)↑	ND	ND
氯甲烷	HJ 639	μg/L	1.5	ND	ND(<15.0)↑	ND	ND
氯乙烯	HJ 639	μg/L	1.5	ND	ND(<15.0)↑	ND	ND
1,1-二氯乙烯	HJ 639	μg/L	1.2	ND	ND(<12.0)↑	ND	ND
二氯甲烷	HJ 639	μg/L	1.0	ND	ND(<10.0)↑	ND	ND
反-1,2-二氯乙烯	HJ 639	μg/L	1.1	ND	ND(<11.0)↑	ND	ND
1,1-二氯乙烷	HJ 639	μg/L	1.2	ND	ND(<12.0)↑	ND	ND
顺-1,2-二氯乙烯	HJ 639	μg/L	1.2	ND	ND(<12.0)↑	ND	ND
1,1,1-三氯乙烷	HJ 639	μg/L	1.4	ND	ND(<14.0)↑	ND	ND
四氯化碳	HJ 639	μg/L	1.5	ND	ND(<15.0)↑	ND	ND
1,2-二氯乙烷	HJ 639	μg/L	1.4	ND	ND(<14.0)↑	ND	ND
三氯乙烯	HJ 639	μg/L	1.2	ND	ND(<12.0)↑	ND	ND
1,1,2-三氯乙烷	HJ 639	μg/L	1.5	ND	ND(<15.0)↑	ND	ND
四氯乙烯	HJ 639	μg/L	1.2	ND	ND(<12.0)↑	ND	ND
1,1,1,2-四氯乙烷	HJ 639	μg/L	1.5	ND	ND(<15.0)↑	ND	ND
1,1,2,2-四氯乙烷	HJ 639	μg/L	1.1	ND	ND(<11.0)↑	ND	ND
1,2,3-三氯丙烷	HJ 639	μg/L	0.5	ND	ND(<5.0)↑	ND	ND
氯苯	HJ 639	μg/L	1.0	ND	ND(<10.0)↑	231	ND
1,4-二氯苯	HJ 639	μg/L	0.8	ND	ND(<8.0)↑	ND	ND



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实验室编号	23-06785.001	23-06785.002	23-06785.003	23-06785.004
样品名称	2A01-W	2B01-W	2B02-W	2C01-W
检测类别	地下水	地下水	地下水	地下水
收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10
样品描述	灰棕色浑浊	微黄微浑	灰棕色浑浊	微黄微浑

分析指标	方法	单位	检出限	检测结果			
1,2-二氯苯	HJ 639	µg/L	0.8	ND	ND(<8.0)↑	ND	ND
氯仿	HJ 639	µg/L	1.4	ND	ND(<14.0)↑	ND	ND
苯	HJ 639	µg/L	1.0	ND	ND(<10.0)↑	ND	ND
替代物							
硝基苯-d5	USEPA 8270E	%	-	69	60	61	70
2-氟联苯	USEPA 8270E	%	-	71	68	69	73
2,4,6-三溴苯酚	USEPA 8270E	%	-	65	61	71	75
对-三联苯-d14	USEPA 8270E	%	-	78	79	73	80
半挥发性有机物							
六氯苯	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
阿特拉津	USEPA 8270E	µg/L	2	ND	ND	ND	ND
α-六六六	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
β-六六六	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
γ-六六六	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
α-氯丹	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
γ-氯丹	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
p,p'-滴滴涕	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
p,p'-滴滴涕	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
o,p'-滴滴涕	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
p,p'-滴滴涕	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
滴滴涕(总量) ¹	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
硫丹 I	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
硫丹 II	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
氯丹(总量) ²	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
硫丹总量 ³	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
七氯	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
敌敌畏	USEPA 8270E	µg/L	2	ND	ND	ND	ND
乐果	USEPA 8270E	µg/L	2	ND	ND	ND	ND
替代物							
2,4,5,6-四氯-间-二甲苯	USEPA 8081B	%	-	91	84	97	85
十氯联苯	USEPA 8081B	%	-	93	89	104	86
有机氯农药							
灭蚊灵	USEPA 8081B	µg/L	0.1	ND	ND	ND	ND
溴氟菊酯	HJ 753	µg/L	0.04	ND	ND	ND	ND
氟虫腈	NY/T 3277	µg/L	1.0	ND	ND	ND	ND
替代物							
硝基苯-d5	HJ 716	%	-	94	76	79	88
硝基苯类							
硝基苯	HJ 716	µg/L	0.04	ND	ND	ND	ND
替代物							
十氟联苯	HJ 478	%	-	90	72	66	56
多环芳烃类							
苯并(a)蒽	HJ 478	µg/L	0.007	ND	ND	ND	ND
蒽	HJ 478	µg/L	0.008	ND	ND	ND	ND
苯并(a)芘	HJ 478	µg/L	0.004	ND	ND	ND	ND
苯并(b)荧蒽	HJ 478	µg/L	0.003	ND	ND	ND	ND
苯并(k)荧蒽	HJ 478	µg/L	0.004	ND	ND	ND	ND
茚并(1,2,3-cd)芘	HJ 478	µg/L	0.003	ND	ND	ND	ND
二苯并(a,h)蒽	HJ 478	µg/L	0.003	ND	ND	ND	ND
苯酚类							



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实验室编号	23-06785.001	23-06785.002	23-06785.003	23-06785.004
样品名称	2A01-W	2B01-W	2B02-W	2C01-W
检测类别	地下水	地下水	地下水	地下水
收样日期	2023/11/10	2023/11/10	2023/11/10	2023/11/10
样品描述	灰棕色浑浊	微黄微浑	灰棕色浑浊	微黄微浑

分析指标	方法	单位	检出限	检测结果			
2-氯苯酚	HJ 744	µg/L	0.1	ND	ND	ND	ND
苯胺类							
苯胺	HJ 1048	µg/L	0.2	ND	ND	ND	ND



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实验室编号	23-06785.005	23-06785.006	23-06785.007
样品名称	2D01-W	DZW01-W	DUP-1-W
检测类别	地下水	地下水	地下水
收样日期	2023/11/10	2023/11/10	2023/11/10
样品描述	灰棕色浑浊	灰棕色浑浊	灰棕色浑浊

分析指标	方法	单位	检出限	检测结果		
高锰酸盐指数	GB/T 11892	O ₂ , mg/L	0.5	2.0	2.5	2.0
硫化物	APHA 4500-S ² (D)	mg/L	0.005	ND	ND	ND
氯化物	HJ 84	mg/L	0.007	5.47	4.88	5.49
氟化物	HJ 84	mg/L	0.006	0.289	0.161	0.297
硫酸盐	HJ 84	mg/L	0.018	41.5	66.9	42.5
亚硝酸盐氮 (N计)	HJ 84	mg/L	0.005	ND	0.053	ND
硝酸盐氮 (N计)	HJ 84	mg/L	0.0036	ND	0.0720	ND
挥发酚 (苯酚计)	HJ 503	mg/L	0.0003	ND	ND	ND
氨氮	HJ 535	mg/L	0.025	1.22	0.763	1.18
可吸附有机卤素	HJ 1214	mg/L	0.007	0.019	0.031	0.008
六价铬	DZ/T 0064.17	mg/L	0.004	ND	ND	ND
汞	HJ 694	µg/L	0.04	ND	ND	ND
砷	HJ 694	µg/L	0.3	9.9	3.3	9.9
镉	HJ 700	µg/L	0.05	ND	ND	ND
铜	HJ 700	µg/L	0.08	0.42	0.56	0.32
锰	HJ 700	µg/L	0.12	656	346	650
铅	HJ 700	µg/L	0.09	ND	ND	ND
镍	HJ 700	µg/L	0.06	0.56	0.61	0.61
锌	HJ 700	µg/L	0.67	ND	ND	ND
石油烃 (C ₁₀ -C ₄₀)	HJ 894	mg/L	0.01	0.02	0.02	0.03
替代物						
甲苯-d8	HJ 639	%	-	103	103	103
4-溴氟苯	HJ 639	%	-	119	121	119
二溴一氟甲烷	HJ 639	%	-	104	106	104
挥发性有机物						
苯	HJ 639	µg/L	1.4	ND	ND	ND
甲苯	HJ 639	µg/L	1.4	ND	ND	ND
乙苯	HJ 639	µg/L	0.8	ND	ND	ND
苯乙烯	HJ 639	µg/L	0.6	ND	ND	ND
间&对-二甲苯	HJ 639	µg/L	2.2	ND	ND	ND
邻-二甲苯	HJ 639	µg/L	1.4	ND	ND	ND
1,2-二氯丙烷	HJ 639	µg/L	1.2	ND	ND	ND
氯甲烷	HJ 639	µg/L	1.5	ND	ND	ND
氯乙烯	HJ 639	µg/L	1.5	ND	ND	ND
1,1-二氯乙烯	HJ 639	µg/L	1.2	ND	ND	ND
二氯甲烷	HJ 639	µg/L	1.0	ND	ND	ND
反-1,2-二氯乙烯	HJ 639	µg/L	1.1	ND	ND	ND
1,1-二氯乙烯	HJ 639	µg/L	1.2	ND	ND	ND
顺-1,2-二氯乙烯	HJ 639	µg/L	1.2	ND	ND	ND
1,1,1-三氯乙烯	HJ 639	µg/L	1.4	ND	ND	ND
四氯化碳	HJ 639	µg/L	1.5	ND	ND	ND
1,2-二氯乙烷	HJ 639	µg/L	1.4	ND	ND	ND
三氯乙烯	HJ 639	µg/L	1.2	ND	ND	ND
1,1,2-三氯乙烯	HJ 639	µg/L	1.5	ND	ND	ND
四氯乙烯	HJ 639	µg/L	1.2	ND	ND	ND
1,1,1,2-四氯乙烷	HJ 639	µg/L	1.5	ND	ND	ND
1,1,2,2-四氯乙烷	HJ 639	µg/L	1.1	ND	ND	ND
1,2,3-三氯丙烷	HJ 639	µg/L	0.5	ND	ND	ND
氯苯	HJ 639	µg/L	1.0	ND	ND	ND
1,4-二氯苯	HJ 639	µg/L	0.8	ND	ND	ND



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实验室编号	23-06785.005	23-06785.006	23-06785.007
样品名称	2D01-W	DZW01-W	DUP-1-W
检测类别	地下水	地下水	地下水
收样日期	2023/11/10	2023/11/10	2023/11/10
样品描述	灰棕色浑浊	灰棕色浑浊	灰棕色浑浊

分析指标	方法	单位	检出限	检测结果		
1,2-二氯苯	HJ 639	µg/L	0.8	ND	ND	ND
氯仿	HJ 639	µg/L	1.4	ND	ND	ND
苯	HJ 639	µg/L	1.0	ND	ND	ND
替代物						
硝基苯-d5	USEPA 8270E	%	-	61	80	70
2-氟联苯	USEPA 8270E	%	-	71	77	80
2,4,6-三溴苯酚	USEPA 8270E	%	-	52	60	56
对-三联苯-d14	USEPA 8270E	%	-	81	80	79
半挥发性有机物						
六氯苯	USEPA 8270E	µg/L	0.5	ND	ND	ND
阿特拉津	USEPA 8270E	µg/L	2	ND	ND	ND
α-六六六	USEPA 8270E	µg/L	0.5	ND	ND	ND
β-六六六	USEPA 8270E	µg/L	0.5	ND	ND	ND
γ-六六六	USEPA 8270E	µg/L	0.5	ND	ND	ND
α-氯丹	USEPA 8270E	µg/L	0.5	ND	ND	ND
γ-氯丹	USEPA 8270E	µg/L	0.5	ND	ND	ND
p,p'-滴滴涕	USEPA 8270E	µg/L	0.5	ND	ND	ND
p,p'-滴滴涕	USEPA 8270E	µg/L	0.5	ND	ND	ND
o,p'-滴滴涕	USEPA 8270E	µg/L	0.5	ND	ND	ND
p,p'-滴滴涕	USEPA 8270E	µg/L	0.5	ND	ND	ND
滴滴涕(总量) ¹	USEPA 8270E	µg/L	0.5	ND	ND	ND
硫丹 I	USEPA 8270E	µg/L	0.5	ND	ND	ND
硫丹 II	USEPA 8270E	µg/L	0.5	ND	ND	ND
氯丹(总量) ²	USEPA 8270E	µg/L	0.5	ND	ND	ND
硫丹总量 ³	USEPA 8270E	µg/L	0.5	ND	ND	ND
七氯	USEPA 8270E	µg/L	0.5	ND	ND	ND
敌敌畏	USEPA 8270E	µg/L	2	ND	ND	ND
乐果	USEPA 8270E	µg/L	2	ND	ND	ND
替代物						
2,4,5,6-四氯-间-二甲苯	USEPA 8081B	%	-	94	93	92
十氯联苯	USEPA 8081B	%	-	98	93	107
有机氯农药						
灭蚊灵	USEPA 8081B	µg/L	0.1	ND	ND	ND
溴氰菊酯	HJ 753	µg/L	0.04	ND	ND	ND
氟虫腈	NY/T 3277	µg/L	1.0	ND	ND	ND
替代物						
硝基苯-d5	HJ 716	%	-	83	92	84
硝基苯类						
硝基苯	HJ 716	µg/L	0.04	ND	ND	ND
替代物						
十氟联苯	HJ 478	%	-	63	66	56
多环芳烃类						
苯并(a)蒽	HJ 478	µg/L	0.007	ND	ND	ND
蒽	HJ 478	µg/L	0.008	ND	ND	ND
苯并(a)芘	HJ 478	µg/L	0.004	ND	ND	ND
苯并(b)荧蒽	HJ 478	µg/L	0.003	ND	ND	ND
苯并(k)荧蒽	HJ 478	µg/L	0.004	ND	ND	ND
茚并(1,2,3-cd)芘	HJ 478	µg/L	0.003	ND	ND	ND
二苯并(a,h)蒽	HJ 478	µg/L	0.003	ND	ND	ND
苯酚类						



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实验室编号	23-06785.005	23-06785.006	23-06785.007
样品名称	2D01-W	DZW01-W	DUP-1-W
检测类别	地下水	地下水	地下水
收样日期	2023/11/10	2023/11/10	2023/11/10
样品描述	灰棕色浑浊	灰棕色浑浊	灰棕色浑浊

分析指标	方法	单位	检出限	检测结果		
2-氯苯酚	HJ 744	µg/L	0.1	ND	ND	ND
苯胺类						
苯胺	HJ 1048	µg/L	0.2	ND	ND	ND



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实验室编号	23-06785.008
样品名称	TB-1
检测类别	空白
收样日期	2023/11/10
样品描述	-

分析指标	方法	单位	检出限	检测结果
替代物				
甲苯-d8	HJ 639	%	-	76.2
4-溴氟苯	HJ 639	%	-	118
二溴一氟甲烷	HJ 639	%	-	104
挥发性有机物				
苯	HJ 639	µg/L	1.4	ND
甲苯	HJ 639	µg/L	1.4	ND
乙苯	HJ 639	µg/L	0.8	ND
苯乙烯	HJ 639	µg/L	0.6	ND
间&对-二甲苯	HJ 639	µg/L	2.2	ND
邻-二甲苯	HJ 639	µg/L	1.4	ND
1,2-二氯丙烷	HJ 639	µg/L	1.2	ND
氯甲烷	HJ 639	µg/L	1.5	ND
氯乙烯	HJ 639	µg/L	1.5	ND
1,1-二氯乙烯	HJ 639	µg/L	1.2	ND
二氯甲烷	HJ 639	µg/L	1.0	ND
反-1,2-二氯乙烯	HJ 639	µg/L	1.1	ND
1,1-二氯乙烷	HJ 639	µg/L	1.2	ND
顺-1,2-二氯乙烯	HJ 639	µg/L	1.2	ND
1,1,1-三氯乙烷	HJ 639	µg/L	1.4	ND
四氯化碳	HJ 639	µg/L	1.5	ND
1,2-二氯乙烷	HJ 639	µg/L	1.4	ND
三氯乙烯	HJ 639	µg/L	1.2	ND
1,1,2-三氯乙烷	HJ 639	µg/L	1.5	ND
四氯乙烯	HJ 639	µg/L	1.2	ND
1,1,1,2-四氯乙烷	HJ 639	µg/L	1.5	ND
1,1,2,2-四氯乙烷	HJ 639	µg/L	1.1	ND
1,2,3-三氯丙烷	HJ 639	µg/L	0.5	ND
氯苯	HJ 639	µg/L	1.0	ND
1,4-二氯苯	HJ 639	µg/L	0.8	ND
1,2-二氯苯	HJ 639	µg/L	0.8	ND
氯仿	HJ 639	µg/L	1.4	ND
萘	HJ 639	µg/L	1.0	ND

备注：

- 滴滴涕(总量)为o,p'-滴滴涕、p,p'-滴滴涕、p,p'滴滴滴、p,p'滴滴依四种衍生物的含量总和
- 氯丹(总量)为α-氯丹、γ-氯丹两种物质含量总和
- 硫丹总量为硫丹 I、硫丹 II两种物质含量总和



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方法列表

GB/T 11892-1989 水质 高锰酸盐指数的测定
 APHA 4500-S²⁻(D)-2011 硫化物 亚甲蓝分光光度法
 HJ 84-2016 水质 阴离子的测定 离子色谱法
 HJ 503-2009 水质 挥发酚的测定 4-氨基安替比林分光光度法
 HJ 535-2009 水质 氨氮的测定 纳氏试剂分光光度法
 HJ 1214-2021 水质 可吸附有机卤素 (AOX) 的测定 微库仑法
 DZ/T 0064.17-2021 二苯碳酰二肼分光光度法测定地下水中的六价铬含量
 HJ 694-2014 水质 汞、砷、硒、铋和锑的测定原子荧光法
 HJ 700-2014 水质 65种元素的测定 电感耦合等离子体质谱法
 HJ 894-2017 水质 可萃取性石油烃C10-C40的测定 气相色谱法
 HJ 639-2012 水质 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法
 USEPA 8270E-2018 半挥发性有机物的测定 气相色谱-质谱法
 USEPA 8270E-2018 半挥发性有机物 有机氯农药
 USEPA 8270E-2018 半挥发性有机物 有机磷农药
 USEPA 8081B-2007 有机氯农药的测定 气相色谱法
 HJ 753-2015 水质 百菌清及拟除虫菊酯类农药的测定 气相色谱-质谱法
 NY/T 3277-2018 水中88种农药及代谢物残留量的测定液相色谱-串联质谱法和气相色谱-串联质谱法
 HJ 716-2014 水质 硝基苯类化合物的测定 气相色谱-质谱法
 HJ 478-2009 水质 多环芳烃的测定 液液萃取和固相萃取高效液相色谱法
 HJ 744-2015 水质 酚类化合物的测定 气相色谱-质谱法
 HJ 1048-2019 水质 17种苯胺类化合物的测定 液相色谱-三重四极杆质谱法



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方法:GB/T 11892-1989

仪器名称	型号	仪器编号	出厂序号
全自动高锰酸盐指数分析仪	202W	CHEM-1446	14100169A202

方法:APHA 4500-S²(D)-2011

仪器名称	型号	仪器编号	出厂序号
紫外可见分光光度计	PE Lambda365	CHEM-1355	365k20030307

方法:HJ 84-2016

仪器名称	型号	仪器编号	出厂序号
离子色谱仪	ICS-1500	CHEM-ENV112	06080130

方法:HJ 503-2009

仪器名称	型号	仪器编号	出厂序号
紫外可见分光光度计	PE Lambda365	CHEM-1355	365k20030307

方法:HJ 535-2009

仪器名称	型号	仪器编号	出厂序号
紫外可见分光光度计	PE Lambda365	CHEM-1355	365k20030307

方法:HJ 1214-2021

仪器名称	型号	仪器编号	出厂序号
总有机卤素分析仪	Jena MultiX2500/Jena	CHEM-1058	N1-302/R

方法:DZ/T 0064.17-2021

仪器名称	型号	仪器编号	出厂序号
紫外可见分光光度计	PE Lambda365	CHEM-1355	365k20030307

方法:HJ 694-2014

仪器名称	型号	仪器编号	出厂序号
原子荧光光度计	AFS-933	CHEM-1279	933-17112125
原子荧光光度计	Kylin-S12	CHEM-1401	KS12-2010075

方法:HJ 700-2014

仪器名称	型号	仪器编号	出厂序号
电感耦合等离子体质谱仪	Agilent 7900	CHEM-998	JP16311502

方法:HJ 894-2017

仪器名称	型号	仪器编号	出厂序号
气相色谱仪-氢火焰离子检测器	Agilent 7890B	CHEM-ENV004	CN13283140

方法:HJ 639-2012

仪器名称	型号	仪器编号	出厂序号
吹扫捕集气相色谱质谱仪	Agilent AQUATEk100/7890B/5977A	CHEM-937	US15240014/CN15423234/US1541L452

方法:USEPA 8270E-2018

仪器名称	型号	仪器编号	出厂序号
气相色谱质谱仪	Agilent 7890B/5977A	CHEM-1118	CN18053182/US1805M023

方法:USEPA 8270E-2018

仪器名称	型号	仪器编号	出厂序号
气相色谱质谱仪	Agilent 7890B/5977A	CHEM-1118	CN18053182/US1805M023

方法:USEPA 8270E-2018

仪器名称	型号	仪器编号	出厂序号
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气相色谱质谱仪	Agilent 7890B/5977A	CHEM-1118	CN18053182/US1805M023
方法:USEPA 8081B-2007			
仪器名称	型号	仪器编号	出厂序号
气相色谱仪-电子捕获检测器	Agilent 7890B	CHEM-1068	CN17273003
方法:HJ 753-2015			
仪器名称	型号	仪器编号	出厂序号
气相色谱质谱仪	Agilent 7890B/5977A	CHEM-1118	CN18053182/US1805M023
方法:HJ 716-2014			
仪器名称	型号	仪器编号	出厂序号
气相色谱质谱仪	Agilent 7890B/5977A	CHEM-1118	CN18053182/US1805M023
方法:HJ 478-2009			
仪器名称	型号	仪器编号	出厂序号
超高效液相色谱	Thermo UltiMate 3000	CHEM-1420	S/N:8180999 S/N:8180977 S/N:8181696
方法:HJ 744-2015			
仪器名称	型号	仪器编号	出厂序号
气相色谱质谱仪	Agilent6890N/5973i	CHEM-126	US144004/CN10539052/US52411034
方法:HJ 1048-2019			
仪器名称	型号	仪器编号	出厂序号
液相色谱二极管阵列检测器/质谱联用仪	1260/6460	CHEM-1020	SG16517305



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方法空白(MB)

参数	QC批号	单位	检出限	MB	控制范围
硫化物 亚甲蓝分光光度法 方法：APHA 4500-S<SP2><SP->(D) -2011					
硫化物	LB2340504	mg/L	0.005	<0.005	<0.005
二苯硫脲二肼分光光度法测定地下水中的六价铬含量 方法：DZ/T 0064.17-2021					
六价铬	LB2340508	mg/L	0.004	<0.004	<0.004
六价铬	LB2340509	mg/L	0.004	<0.004	<0.004
有机氯农药的测定 气相色谱法 方法：USEPA 8081B-2007					
2,4,5,6-四氯-间-二甲苯	LB2340496	%	-	93	40-110
十氯联苯	LB2340496	%	-	98	70-130
灭蚊灵	LB2340496	µg/L	0.1	<0.1	<0.1
半挥发性有机物的测定 气相色谱-质谱法 方法：USEPA 8270E-2018					
硝基苯-d5	LB2340488	%	-	65	30-130
2-氟联苯	LB2340488	%	-	82	40-130
2,4,6-三溴苯酚	LB2340488	%	-	50	40-150
对-三联苯-d14	LB2340488	%	-	87	40-150
六氯苯	LB2340488	µg/L	0.5	<0.5	<0.5
阿特拉津	LB2340488	µg/L	2	<2	<2
半挥发性有机物 有机氯农药 方法：USEPA 8270E-2018					
α-六六六	LB2340489	µg/L	0.5	<0.5	<0.5
β-六六六	LB2340489	µg/L	0.5	<0.5	<0.5
γ-六六六	LB2340489	µg/L	0.5	<0.5	<0.5
α-氯丹	LB2340489	µg/L	0.5	<0.5	<0.5
γ-氯丹	LB2340489	µg/L	0.5	<0.5	<0.5
p,p'-滴滴依	LB2340489	µg/L	0.5	<0.5	<0.5
p,p'-滴滴滴	LB2340489	µg/L	0.5	<0.5	<0.5
o,p'-滴滴涕	LB2340489	µg/L	0.5	<0.5	<0.5
p,p'-滴滴涕	LB2340489	µg/L	0.5	<0.5	<0.5
硫丹 I	LB2340489	µg/L	0.5	<0.5	<0.5
硫丹 II	LB2340489	µg/L	0.5	<0.5	<0.5
七氯	LB2340489	µg/L	0.5	<0.5	<0.5
半挥发性有机物 有机磷农药 方法：USEPA 8270E-2018					
敌敌畏	LB2340490	µg/L	2	<2	<2
乐果	LB2340490	µg/L	2	<2	<2
水质 高锰酸盐指数的测定 方法：GB/T 11892-1989					
高锰酸盐指数	LB2340383	O ₂ , mg/L	0.5	<0.5	<0.5
水质 17种苯胺类化合物的测定 液相色谱-三重四极杆质谱法 方法：HJ 1048-2019					



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方法空白(MB)

参数	QC批号	单位	检出限	MB	控制范围
水质 17种苯胺类化合物的测定 液相色谱-三重四极杆质谱法 方法：HJ 1048-2019(继续)					
苯胺	LB2340126	µg/L	0.2	<0.2	<0.2
水质 可吸附有机卤素 (AOX) 的测定 微库仑法 方法：HJ 1214-2021					
可吸附有机卤素	LB2340558	mg/L	0.007	0.015	<0.007
水质多环芳烃的测定 液液萃取和固相萃取高效液相色谱法 方法：HJ 478-2009					
十氟联苯	LB2340498	%	-	61	50-130
苯并(a)蒽	LB2340498	µg/L	0.007	<0.007	<0.007
蒽	LB2340498	µg/L	0.008	<0.008	<0.008
苯并(a)芘	LB2340498	µg/L	0.004	<0.004	<0.004
苯并(b)荧蒽	LB2340498	µg/L	0.003	<0.003	<0.003
苯并(k)荧蒽	LB2340498	µg/L	0.004	<0.004	<0.004
茚并(1,2,3-cd)芘	LB2340498	µg/L	0.003	<0.003	<0.003
二苯并(a,h)蒽	LB2340498	µg/L	0.003	<0.003	<0.003
水质 挥发酚的测定 4-氨基安替比林分光光度法 方法：HJ 503-2009					
挥发酚 (苯酚计)	LB2340597	mg/L	0.0003	<0.0003	<0.0003
水质 氨氮的测定 纳氏试剂分光光度法 方法：HJ 535-2009					
氨氮	LB2340544	mg/L	0.025	<0.025	<0.025
水质 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 639-2012					
甲苯-d8	LB2340586	%	-	91.4	70-130
4-溴氟苯	LB2340586	%	-	121	70-130
二溴一氟甲烷	LB2340586	%	-	106	70-130
苯	LB2340586	µg/L	1.4	<1.4	<1.4
甲苯	LB2340586	µg/L	1.4	<1.4	<1.4
乙苯	LB2340586	µg/L	0.8	<0.8	<0.8
苯乙烯	LB2340586	µg/L	0.6	<0.6	<0.6
邻-二甲苯	LB2340586	µg/L	1.4	<1.4	<1.4
间&对-二甲苯	LB2340586	µg/L	2.2	<2.2	<2.2
1,2-二氯丙烷	LB2340586	µg/L	1.2	<1.2	<1.2
氯甲烷	LB2340586	µg/L	1.5	<1.5	<1.5
氯乙烷	LB2340586	µg/L	1.5	<1.5	<1.5
1,1-二氯乙烯	LB2340586	µg/L	1.2	<1.2	<1.2
二氯甲烷	LB2340586	µg/L	1.0	<1.0	<1.0
反-1,2-二氯乙烯	LB2340586	µg/L	1.1	<1.1	<1.1
1,1-二氯乙烷	LB2340586	µg/L	1.2	<1.2	<1.2
顺-1,2-二氯乙烯	LB2340586	µg/L	1.2	<1.2	<1.2



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方法空白(MB)

参数	QC批号	单位	检出限	MB	控制范围
水质 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 639-2012(继续)					
1,1,1-三氯乙烷	LB2340586	µg/L	1.4	<1.4	<1.4
四氯化碳	LB2340586	µg/L	1.5	<1.5	<1.5
1,2-二氯乙烷	LB2340586	µg/L	1.4	<1.4	<1.4
三氯乙烯	LB2340586	µg/L	1.2	<1.2	<1.2
1,1,2-三氯乙烷	LB2340586	µg/L	1.5	<1.5	<1.5
四氯乙烯	LB2340586	µg/L	1.2	<1.2	<1.2
1,1,1,2-四氯乙烷	LB2340586	µg/L	1.5	<1.5	<1.5
1,1,1,2-四氯乙烷	LB2340586	µg/L	1.1	<1.1	<1.1
1,2,3-三氯丙烷	LB2340586	µg/L	0.5	<0.5	<0.5
氯苯	LB2340586	µg/L	1.0	<1.0	<1.0
1,4-二氯苯	LB2340586	µg/L	0.8	<0.8	<0.8
1,2-二氯苯	LB2340586	µg/L	0.8	<0.8	<0.8
氯仿	LB2340586	µg/L	1.4	<1.4	<1.4
萘	LB2340586	µg/L	1.0	<1.0	<1.0
水质 汞、砷、硒、铋和锑的测定原子荧光法 方法：HJ 694-2014					
汞	LB2340270	µg/L	0.04	<0.04	<0.04
汞	LB2340270	µg/L	0.04	<0.04	<0.04
砷	LB2340270	µg/L	0.3	<0.3	<0.3
砷	LB2340270	µg/L	0.3	<0.3	<0.3
水质 65种元素的测定 电感耦合等离子体质谱法 方法：HJ 700-2014					
镉	LB2340160	µg/L	0.05	<0.05	<0.05
铜	LB2340160	µg/L	0.08	<0.08	<0.08
锰	LB2340160	µg/L	0.12	<0.12	<0.12
铅	LB2340160	µg/L	0.09	<0.09	<0.09
镍	LB2340160	µg/L	0.06	<0.06	<0.06
锌	LB2340160	µg/L	0.67	<0.67	<0.67
水质 硝基苯类化合物的测定 气相色谱-质谱法 方法：HJ 716-2014					
硝基苯-d5	LB2340491	%	-	81	70-110
硝基苯	LB2340491	µg/L	0.04	<0.04	<0.04
水质 酚类化合物的测定 气相色谱-质谱法 方法：HJ 744-2015					
2-氯苯酚	LB2339897	µg/L	0.1	<0.1	<0.1
水质 百菌清及拟除虫菊酯类农药的测定 气相色谱-质谱法 方法：HJ 753-2015					
溴氰菊酯	LB2340492	µg/L	0.04	<0.04	<0.04
水质 可萃取性石油烃C10-C40的测定 气相色谱法 方法：HJ 894-2017					
石油烃 (C ₁₀ -C ₄₀)	LB2339975	mg/L	0.01	<0.01	<0.01



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方法空白(MB)

参数	QC批号	单位	检出限	MB	控制范围
水质 阴离子的测定 离子色谱法 方法：HJ 84-2016					
氯化物	LB2340569	mg/L	0.007	<0.007	<0.007
氯化物	LB2340569	mg/L	0.007	<0.007	<0.007
氟化物	LB2340569	mg/L	0.006	<0.006	<0.006
氟化物	LB2340569	mg/L	0.006	<0.006	<0.006
硫酸盐	LB2340569	mg/L	0.018	<0.018	<0.018
硫酸盐	LB2340569	mg/L	0.018	<0.018	<0.018
亚硝酸盐氮 (N计)	LB2340569	mg/L	0.005	<0.005	<0.005
亚硝酸盐氮 (N计)	LB2340569	mg/L	0.005	<0.005	<0.005
硝酸盐氮 (N计)	LB2340569	mg/L	0.0036	<0.0036	<0.0036
硝酸盐氮 (N计)	LB2340569	mg/L	0.0036	<0.0036	<0.0036

实验室控制样品 (LCS)

实验室控制样品回收率%=测定值*100/参考值。

参数	QC批号	单位	检出限	测定值	参考值	回收率%	控制范围	
							下限	上限
有机氯农药的测定 气相色谱法 方法：USEPA 8081B-2007								
2,4,5,6-四氯-间-二甲苯	LB2340496	%	-	99	100	99.4	40	110
十氯联苯	LB2340496	%	-	109	100	109	70	130
灭蚊灵	LB2340496	µg/L	0.1	0.2	0.2	88.9	70%	130%

半挥发性有机物的测定 气相色谱-质谱法 方法：USEPA 8270E-2018

硝基苯-d5	LB2340488	%	-	98	100	97.8	30	130
2-氟联苯	LB2340488	%	-	88	100	88.2	40	130
2,4,6-三溴苯酚	LB2340488	%	-	73	100	73.0	40	150
对-三联苯-d14	LB2340488	%	-	99	100	99.4	40	150
六氯苯	LB2340488	µg/L	0.5	4.0	5	80.0	61%	127%
阿特拉津	LB2340488	µg/L	2	4	5	84.8	40%	150%

半挥发性有机物 有机氯农药 方法：USEPA 8270E-2018

α-六六六	LB2340489	µg/L	0.5	4.2	5	83.4	50%	130%
β-六六六	LB2340489	µg/L	0.5	4.2	5	83.6	50%	130%
γ-六六六	LB2340489	µg/L	0.5	4.8	5	96.2	50%	130%
α-氯丹	LB2340489	µg/L	0.5	3.6	5	71.4	50%	130%
γ-氯丹	LB2340489	µg/L	0.5	3.8	5	76.6	50%	130%



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实验室控制样品回收率%=测定值*100/参考值。

参数	QC批号	单位	检出限	测定值	参考值	回收率%	控制范围	
							下限	上限

半挥发性有机物 有机氯农药 方法：USEPA 8270E-2018(继续)

p,p'-滴滴依	LB2340489	µg/L	0.5	4.3	5	85.6	50%	130%
p,p'-滴滴滴	LB2340489	µg/L	0.5	3.9	5	78.6	50%	130%
o,p'-滴滴涕	LB2340489	µg/L	0.5	4.6	5	92.4	50%	130%
p,p'-滴滴涕	LB2340489	µg/L	0.5	4.6	5	91.0	50%	130%
硫丹 I	LB2340489	µg/L	0.5	4.0	5	81.0	50%	130%
硫丹 II	LB2340489	µg/L	0.5	4.2	5	83.6	50%	130%
七氯	LB2340489	µg/L	0.5	4.7	5	94.4	50%	130%

半挥发性有机物 有机磷农药 方法：USEPA 8270E-2018

敌敌畏	LB2340490	µg/L	2	4	5	72.2	50%	150%
乐果	LB2340490	µg/L	2	4	5	70.6	50%	150%

水质 17种苯胺类化合物的测定 液相色谱-三重四极杆质谱法 方法：HJ 1048-2019

苯胺	LB2340126	µg/L	0.2	9.8	10	98.0	70%	120%
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水质 多环芳烃的测定 液液萃取和固相萃取高效液相色谱法 方法：HJ 478-2009

十氟联苯	LB2340498	%	-	90	100	89.6	50	130
苯并(a)蒽	LB2340498	µg/L	0.007	0.086	0.1	85.6	60%	120%
蒽	LB2340498	µg/L	0.008	0.088	0.1	88.5	60%	120%
苯并(a)芘	LB2340498	µg/L	0.004	0.079	0.1	79.1	60%	120%
苯并(b)荧蒽	LB2340498	µg/L	0.003	0.089	0.1	88.9	60%	120%
苯并(k)荧蒽	LB2340498	µg/L	0.004	0.089	0.1	88.8	60%	120%
茚并(1,2,3-cd)芘	LB2340498	µg/L	0.003	0.090	0.1	90.3	60%	120%
二苯并(a,h)蒽	LB2340498	µg/L	0.003	0.088	0.1	87.8	60%	120%

水质 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 639-2012

甲苯-d8	LB2340586	%	-	103	100	103	70	130
4-溴氟苯	LB2340586	%	-	92.4	100	92.4	70	130
二溴一氟甲烷	LB2340586	%	-	112	100	112	70	130
苯	LB2340586	µg/L	1.4	21.0	20	105	80%	120%
甲苯	LB2340586	µg/L	1.4	19.7	20	98.6	80%	120%
乙苯	LB2340586	µg/L	0.8	20.9	20	104	80%	120%
苯乙烯	LB2340586	µg/L	0.6	22.3	20	112	80%	120%
邻-二甲苯	LB2340586	µg/L	1.4	22.4	20	112	80%	120%
间&对-二甲苯	LB2340586	µg/L	2.2	42.8	40	107	80%	120%
1,2-二氯丙烷	LB2340586	µg/L	1.2	20.8	20	104	80%	120%
氯甲烷	LB2340586	µg/L	1.5	17.7	20	88.5	80%	120%
氯乙烯	LB2340586	µg/L	1.5	16.1	20	80.6	80%	120%



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实验室控制样品 (LCS)

实验室控制样品回收率%=测定值*100/参考值。

参数	QC批号	单位	检出限	测定值	参考值	回收率%	控制范围	
							下限	上限

水质 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 639-2012(继续)

1,1-二氯乙烯	LB2340586	µg/L	1.2	20.6	20	103	80%	120%
二氯甲烷	LB2340586	µg/L	1.0	18.4	20	92.0	80%	120%
反-1,2-二氯乙烯	LB2340586	µg/L	1.1	19.8	20	99.0	80%	120%
1,1-二氯乙烷	LB2340586	µg/L	1.2	21.6	20	108	80%	120%
顺-1,2-二氯乙烯	LB2340586	µg/L	1.2	19.5	20	97.5	80%	120%
1,1,1-三氯乙烷	LB2340586	µg/L	1.4	23.9	20	119	80%	120%
四氯化碳	LB2340586	µg/L	1.5	22.2	20	111	80%	120%
1,2-二氯乙烷	LB2340586	µg/L	1.4	21.9	20	110	80%	120%
三氯乙烯	LB2340586	µg/L	1.2	19.4	20	97.0	80%	120%
1,1,2-三氯乙烷	LB2340586	µg/L	1.5	20.9	20	105	80%	120%
四氯乙烯	LB2340586	µg/L	1.2	21.8	20	109	80%	120%
1,1,1,2-四氯乙烷	LB2340586	µg/L	1.5	22.5	20	112	80%	120%
1,1,2,2-四氯乙烷	LB2340586	µg/L	1.1	22.9	20	114	80%	120%
1,2,3-三氯丙烷	LB2340586	µg/L	0.5	21.4	20	107	80%	120%
氯苯	LB2340586	µg/L	1.0	19.7	20	98.7	80%	120%
1,4-二氯苯	LB2340586	µg/L	0.8	21.5	20	107	80%	120%
1,2-二氯苯	LB2340586	µg/L	0.8	21.5	20	108	80%	120%
氯仿	LB2340586	µg/L	1.4	22.5	20	113	80%	120%
萘	LB2340586	µg/L	1.0	17.8	20	89.2	80%	120%

水质 65种元素的测定 电感耦合等离子体质谱法 方法：HJ 700-2014

镉	LB2340160	µg/L	0.05	19.1	20	95.4	80%	120%
铜	LB2340160	µg/L	0.08	18.8	20	93.9	80%	120%
锰	LB2340160	µg/L	0.12	16.1	20	80.6	80%	120%
铅	LB2340160	µg/L	0.09	17.0	20	85.2	80%	120%
镍	LB2340160	µg/L	0.06	17.9	20	89.7	80%	120%
锌	LB2340160	µg/L	0.67	18.1	20	90.5	80%	120%

水质 硝基苯类化合物的测定 气相色谱-质谱法 方法：HJ 716-2014

硝基苯-d5	LB2340491	%	-	78	100	77.7	70	110
硝基苯	LB2340491	µg/L	0.04	0.92	1	92.5	70%	110%

水质 酚类化合物的测定 气相色谱-质谱法 方法：HJ 744-2015

2-氯苯酚	LB2339897	µg/L	0.1	0.7	1	73.8	60%	130%
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水质 百草菊酯及拟除虫菊酯类农药的测定 气相色谱-质谱法 方法：HJ 753-2015

溴氰菊酯	LB2340492	µg/L	0.04	0.84	1	84.0	70%	120%
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水质 可萃取性石油烃C10-C40的测定 气相色谱法 方法：HJ 894-2017



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实验室控制样品 (LCS)

实验室控制样品回收率%=测定值*100/参考值。

参数	QC批号	单位	检出限	测定值	参考值	回收率%	控制范围	
							下限	上限

水质 可萃取性石油烃C10-C40的测定 气相色谱法 方法：HJ 894-2017(继续)

石油烃 (C ₁₀ -C ₄₀)	LB2339975	mg/L	0.01	0.36	0.31	116	70%	120%
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水质 阴离子的测定 离子色谱法 方法：HJ 84-2016

氯化物	LB2340569	mg/L	0.007	1.03	1	103	80%	120%
氟化物	LB2340569	mg/L	0.006	0.994	1	99.4	80%	120%
硫酸盐	LB2340569	mg/L	0.018	1.03	1	103	80%	120%
亚硝酸盐氮 (N计)	LB2340569	mg/L	0.005	0.312	0.304	103	80%	120%
硝酸盐氮 (N计)	LB2340569	mg/L	0.0036	0.229	0.226	101	80%	120%

实验室控制样品回收率评价：本批次测试的实验室控制样品回收率结果均在控制范围内，符合实验室质量控制要求。

有证物质 (CRM)

参数	QC批号	单位	检出限	测定值	证书编号	标准值	控制范围	
							下限	上限

硫化物 亚甲基蓝分光光度法 方法：APHA 4500-S<SP2><SP>-(D) -2011

硫化物	LB2340504	mg/L	0.005	0.474	GSB 07-1373-2001	0.507	0.463	0.551
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水质 高锰酸盐指数的测定 方法：GB/T 11892-1989

高锰酸盐指数	LB2340383	O ₂ , mg/L	0.5	2.37	GSB 07-3162-2014	2.47	2.19	2.75
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水质 挥发酚的测定 4-氨基安替比林分光光度法 方法：HJ 503-2009

挥发酚 (苯酚计)	LB2340597	mg/L	0.0003	0.5778	BW0634	0.59	0.5605	0.6195
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水质 氨氮的测定 纳氏试剂分光光度法 方法：HJ 535-2009

氨氮	LB2340544	mg/L	0.025	6.66	GSB 07-3164-2014	6.59	6.36	6.82
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实验室有证物质结果评价：本批次测试的有证物质结果均在控制范围内，符合实验室质量控制要求。

实验室平行样 (DUP)

平行样的相对偏差(RD)%=|样品测定值-平行样测定值|*100/(样品测定值+平行样测定值)。

参数	样品号	单位	检出限	样品测定值	平行样测定值	RD%	RD控制范围%	替代物控制范围
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硫化物 亚甲基蓝分光光度法 方法：APHA 4500-S<SP2><SP>-(D) -2011

硫化物	SHE23-06787.006	mg/L	0.005	<0.005	<0.005	0.0	≤10	-
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二苯碳酰二肼分光光度法测定地下水中的六价铬含量 方法：DZ/T 0064.17-2021



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实验室平行样 (DUP)

平行样的相对偏差(RD)%=(样品测定值-平行样测定值)÷(样品测定值+平行样测定值)。

参数	样品号	单位	检出限	样品测定值	平行样测定值	RD%	RD控制范围%	替代物控制范围
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二苯砷酰二肼分光光度法测定地下水中的六价铬含量 方法：DZ/T 0064.17-2021(继续)

六价铬	SHE23-06785.001	mg/L	0.004	<0.004	<0.004	0.0	≤10	-
六价铬	SHE23-06785.006	mg/L	0.004	<0.004	<0.004	0.0	≤10	-

有机氯农药的测定 气相色谱法 方法：USEPA 8081B-2007

2,4,5,6-四氯-间-二甲苯	SHE23-06787.002	%	-	77	79	-	-	40-110
十氯联苯	SHE23-06787.002	%	-	87	85	-	-	70-130
灭蚊灵	SHE23-06787.002	µg/L	0.1	<0.1	<0.1	0.0	≤17.5	-

半挥发性有机物的测定 气相色谱-质谱法 方法：USEPA 8270E-2018

硝基苯-d5	SHE23-06787.001	%	-	67	73	-	-	30-130
2-氟联苯	SHE23-06787.001	%	-	69	69	-	-	40-130
2,4,6-三溴苯酚	SHE23-06787.001	%	-	66	65	-	-	40-150
对-三联苯-d14	SHE23-06787.001	%	-	83	81	-	-	40-150
六氯苯	SHE23-06787.001	µg/L	0.5	<0.5	<0.5	0.0	≤17.5	-
阿特拉津	SHE23-06787.001	µg/L	2	<2	<2	0.0	≤17.5	-

半挥发性有机物 有机氯农药 方法：USEPA 8270E-2018

α-六六六	SHE23-06787.001	µg/L	0.5	<0.5	<0.5	0.0	≤17.5	-
β-六六六	SHE23-06787.001	µg/L	0.5	<0.5	<0.5	0.0	≤17.5	-
γ-六六六	SHE23-06787.001	µg/L	0.5	<0.5	<0.5	0.0	≤17.5	-
α-氯丹	SHE23-06787.001	µg/L	0.5	<0.5	<0.5	0.0	≤17.5	-
γ-氯丹	SHE23-06787.001	µg/L	0.5	<0.5	<0.5	0.0	≤17.5	-
p,p'-滴滴依	SHE23-06787.001	µg/L	0.5	<0.5	<0.5	0.0	≤17.5	-
p,p'-滴滴滴	SHE23-06787.001	µg/L	0.5	<0.5	<0.5	0.0	≤17.5	-
o,p'-滴滴涕	SHE23-06787.001	µg/L	0.5	<0.5	<0.5	0.0	≤17.5	-
p,p'-滴滴涕	SHE23-06787.001	µg/L	0.5	<0.5	<0.5	0.0	≤17.5	-
硫丹 I	SHE23-06787.001	µg/L	0.5	<0.5	<0.5	0.0	≤17.5	-
硫丹 II	SHE23-06787.001	µg/L	0.5	<0.5	<0.5	0.0	≤17.5	-
七氯	SHE23-06787.001	µg/L	0.5	<0.5	<0.5	0.0	≤17.5	-

半挥发性有机物 有机磷农药 方法：USEPA 8270E-2018

敌敌畏	SHE23-06787.001	µg/L	2	<2	<2	0.0	≤17.5	-
乐果	SHE23-06787.001	µg/L	2	<2	<2	0.0	≤17.5	-

水质 高锰酸盐指数的测定 方法：GB/T 11892-1989

高锰酸盐指数	SHE23-06787.001	O ₂ , mg/L	0.5	1.6	1.9	8.1	≤10	-
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水质 17种苯胺类化合物的测定 液相色谱-三重四级杆质谱法 方法：HJ 1048-2019

苯胺	SHE23-06785.001	µg/L	0.2	<0.2	<0.2	0.0	≤25	-
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水质 可吸附有机卤素 (AOX) 的测定 微库仑法 方法：HJ 1214-2021

可吸附有机卤素	SHE23-06785.001	mg/L	0.007	0.009	0.010	5.4	≤10	-
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实验室平行样 (DUP)

平行样的相对偏差(RD)%=(样品测定值-平行样测定值)÷(样品测定值+平行样测定值)。

参数	样品号	单位	检出限	样品测定值	平行样测定值	RD%	RD控制范围%	替代物控制范围
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水质多环芳烃的测定 液液萃取和固相萃取高效液相色谱法 方法：HJ 478-2009

十氟联苯	SHE23-06785.001	%	-	89	90	-	-	50-130
苯并(a)蒽	SHE23-06785.001	µg/L	0.007	<0.007	<0.007	0.0	≤20	-
蒽	SHE23-06785.001	µg/L	0.008	<0.008	<0.008	0.0	≤20	-
苯并(a)芘	SHE23-06785.001	µg/L	0.004	<0.004	<0.004	0.0	≤20	-
苯并(b)荧蒽	SHE23-06785.001	µg/L	0.003	<0.003	<0.003	0.0	≤20	-
苯并(k)荧蒽	SHE23-06785.001	µg/L	0.004	<0.004	<0.004	0.0	≤20	-
芘并(1,2,3-cd)芘	SHE23-06785.001	µg/L	0.003	<0.003	<0.003	0.0	≤20	-
二苯并(a,h)蒽	SHE23-06785.001	µg/L	0.003	<0.003	<0.003	0.0	≤20	-

水质 挥发酚的测定 4-氨基安替比林分光光度法 方法：HJ 503-2009

挥发酚 (苯酚计)	SHE23-06785.001	mg/L	0.0003	<0.0003	<0.0003	0.0	≤10	-
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水质 氨氮的测定 纳氏试剂分光光度法 方法：HJ 535-2009

氨氮	SHE23-06787.001	mg/L	0.025	1.02	1.01	0.5	≤10	-
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水质 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 639-2012

甲苯-d8	SHE23-06765.001	%	-	103	86.0	-	-	70-130
4-溴氟苯	SHE23-06765.001	%	-	119	119	-	-	70-130
二溴一氟甲烷	SHE23-06765.001	%	-	102	104	-	-	70-130
苯	SHE23-06765.001	µg/L	1.4	<1.4	<1.4	0.0	≤30	-
甲苯	SHE23-06765.001	µg/L	1.4	<1.4	<1.4	0.0	≤30	-
乙苯	SHE23-06765.001	µg/L	0.8	<0.8	<0.8	0.0	≤30	-
苯乙烯	SHE23-06765.001	µg/L	0.6	<0.6	<0.6	0.0	≤30	-
邻-二甲苯	SHE23-06765.001	µg/L	1.4	<1.4	<1.4	0.0	≤30	-
间&对-二甲苯	SHE23-06765.001	µg/L	2.2	<2.2	<2.2	0.0	≤30	-
1,2-二氯丙烷	SHE23-06765.001	µg/L	1.2	<1.2	<1.2	0.0	≤30	-
氯甲烷	SHE23-06765.001	µg/L	1.5	<1.5	<1.5	0.0	≤30	-
氯乙烯	SHE23-06765.001	µg/L	1.5	<1.5	<1.5	0.0	≤30	-
1,1-二氯乙烯	SHE23-06765.001	µg/L	1.2	<1.2	<1.2	0.0	≤30	-
二氯甲烷	SHE23-06765.001	µg/L	1.0	<1	<1	0.0	≤30	-
反-1,2-二氯乙烯	SHE23-06765.001	µg/L	1.1	<1.1	<1.1	0.0	≤30	-
1,1-二氯乙烷	SHE23-06765.001	µg/L	1.2	<1.2	<1.2	0.0	≤30	-
顺-1,2-二氯乙烯	SHE23-06765.001	µg/L	1.2	<1.2	<1.2	0.0	≤30	-
1,1,1-三氯乙烷	SHE23-06765.001	µg/L	1.4	<1.4	<1.4	0.0	≤30	-
四氯化碳	SHE23-06765.001	µg/L	1.5	<1.5	<1.5	0.0	≤30	-
1,2-二氯乙烷	SHE23-06765.001	µg/L	1.4	<1.4	<1.4	0.0	≤30	-
三氯乙烯	SHE23-06765.001	µg/L	1.2	<1.2	<1.2	0.0	≤30	-



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实验室平行样 (DUP)

平行样的相对偏差(RD)%=|样品测定值-平行样测定值|*100/(样品测定值+平行样测定值)。

参数	样品号	单位	检出限	样品测定值	平行样测定值	RD%	RD控制范围%	替代物控制范围
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水质 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 639-2012(继续)

1,1,2-三氯乙烷	SHE23-06765.001	µg/L	1.5	<1.5	<1.5	0.0	≤30	-
四氯乙烯	SHE23-06765.001	µg/L	1.2	<1.2	<1.2	0.0	≤30	-
1,1,1,2-四氯乙烷	SHE23-06765.001	µg/L	1.5	<1.5	<1.5	0.0	≤30	-
1,1,2,2-四氯乙烷	SHE23-06765.001	µg/L	1.1	<1.1	<1.1	0.0	≤30	-
1,2,3-三氯丙烷	SHE23-06765.001	µg/L	0.5	<0.5	<0.5	0.0	≤30	-
氯苯	SHE23-06765.001	µg/L	1.0	<1	<1	0.0	≤30	-
1,4-二氯苯	SHE23-06765.001	µg/L	0.8	<0.8	<0.8	0.0	≤30	-
1,2-二氯苯	SHE23-06765.001	µg/L	0.8	<0.8	<0.8	0.0	≤30	-
氯仿	SHE23-06765.001	µg/L	1.4	<1.4	<1.4	0.0	≤30	-
苯	SHE23-06765.001	µg/L	1.0	<1	<1	0.0	≤30	-

水质 汞、砷、硒、铋和锑的测定原子荧光法 方法：HJ 694-2014

汞	SHE23-06785.001	µg/L	0.04	<0.04	<0.04	0.0	≤20	-
砷	SHE23-06785.001	µg/L	0.3	3.4	3.1	5.3	≤20	-

水质 65种元素的测定 电感耦合等离子体质谱法 方法：HJ 700-2014

镉	SHE23-06785.001	µg/L	0.05	<0.05	<0.05	0.0	≤20	-
镉	SHE23-06787.001	µg/L	0.05	0.17	0.18	1.4	≤20	-
铜	SHE23-06785.001	µg/L	0.08	1.42	1.49	2.2	≤20	-
铜	SHE23-06787.001	µg/L	0.08	1.70	1.75	1.4	≤20	-
锰	SHE23-06785.001	µg/L	0.12	195	197	0.5	≤20	-
锰	SHE23-06787.001	µg/L	0.12	411	415	0.5	≤20	-
铅	SHE23-06785.001	µg/L	0.09	<0.09	<0.09	0.0	≤20	-
铅	SHE23-06787.001	µg/L	0.09	47.4	49.0	1.6	≤20	-
镍	SHE23-06785.001	µg/L	0.06	0.86	0.72	8.5	≤20	-
镍	SHE23-06787.001	µg/L	0.06	0.73	0.77	2.3	≤20	-
锌	SHE23-06785.001	µg/L	0.67	0.82	0.95	7.1	≤20	-
锌	SHE23-06787.001	µg/L	0.67	7.15	6.94	1.5	≤20	-

水质 硝基苯类化合物的测定 气相色谱-质谱法 方法：HJ 716-2014

硝基苯-d5	SHE23-06785.005	%	-	84	81	-	-	70-110
硝基苯	SHE23-06785.005	µg/L	0.04	<0.04	<0.04	0.0	≤20	-

水质 酚类化合物的测定 气相色谱-质谱法 方法：HJ 744-2015

2-氯苯酚	SHE23-06785.005	µg/L	0.1	<0.1	<0.1	0.0	≤30	-
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水质 百草菊酯及拟除虫菊酯类农药的测定 气相色谱-质谱法 方法：HJ 753-2015

溴氰菊酯	SHE23-06785.005	µg/L	0.04	<0.04	<0.04	0.0	≤25	-
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水质 阴离子的测定 离子色谱法 方法：HJ 84-2016



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实验室平行样 (DUP)

平行样的相对偏差(RD)%=|样品测定值-平行样测定值|*100/(样品测定值+平行样测定值)。

参数	样品号	单位	检出限	样品测定值	平行样测定值	RD%	RD控制范围%	替代物控制范围
水质 阴离子的测定 离子色谱法 方法：HJ 84-2016(继续)								
氯化物	SHE23-06785.003	mg/L	0.007	39.8	39.7	0.1	≤10	-
氯化物	SHE23-06787.003	mg/L	0.007	2.51	2.44	1.3	≤10	-
氟化物	SHE23-06785.003	mg/L	0.006	43.8	44.1	0.4	≤10	-
氟化物	SHE23-06787.003	mg/L	0.006	0.190	0.190	0.0	≤10	-
硫酸盐	SHE23-06785.003	mg/L	0.018	6.97	6.90	0.5	≤10	-
硫酸盐	SHE23-06787.003	mg/L	0.018	39.9	41.0	1.4	≤10	-
亚硝酸盐氮 (N计)	SHE23-06785.003	mg/L	0.005	<0.005	<0.005	0.0	≤10	-
亚硝酸盐氮 (N计)	SHE23-06787.003	mg/L	0.005	<0.005	<0.005	0.0	≤10	-
硝酸盐氮 (N计)	SHE23-06785.003	mg/L	0.0036	<0.0036	<0.0036	0.0	≤10	-
硝酸盐氮 (N计)	SHE23-06787.003	mg/L	0.0036	<0.0036	<0.0036	0.0	≤10	-

平行双样相对偏差结果评价：本批次测试的实验室平行样相对偏差均在控制范围内，符合实验室质量控制要求。

基质加标(MS)

基质加标回收率%=(基质加标测定值-样品测定值) *100/基质加标量 (相关系数带入计算)。

参数	样品号	单位	检出限	样品测定值	MS测定值	基质加标量	回收率%	控制范围
								下限 上限

二苯砷二苯分光光度法测定地下水中的六价铬含量 方法：DZ/T 0064.17-2021

六价铬	SHE23-06785.001	mg/L	0.004	<0.004	0.041	0.04	102	90%	110%
六价铬	SHE23-06785.006	mg/L	0.004	<0.004	0.042	0.04	102	90%	110%

有机氯农药的测定 气相色谱法 方法：USEPA 8081B-2007

2,4,5,6-四氯-间-二甲苯	SHE23-06787.002	%	-	78	88	100	88.3	40	110
十氯联苯	SHE23-06787.002	%	-	86	98	100	98.1	70	130
灭蚊灵	SHE23-06787.002	µg/L	0.1	<0.1	0.1	0.2	70.8	50%	150%

半挥发性有机物的测定 气相色谱-质谱法 方法：USEPA 8270E-2018

硝基苯-d5	SHE23-06787.001	%	-	70	86	100	85.6	30	130
2-氟联苯	SHE23-06787.001	%	-	69	77	100	77.2	40	130
2,4,6-三溴苯酚	SHE23-06787.001	%	-	65	70	100	70.2	40	150
对-三联苯-d14	SHE23-06787.001	%	-	82	85	100	84.6	40	150
六氯苯	SHE23-06787.001	µg/L	0.5	<0.5	3.3	5	66.4	61%	127%
阿特拉津	SHE23-06787.001	µg/L	2	<2	4	5	77.8	40%	150%

半挥发性有机物 有机氯农药 方法：USEPA 8270E-2018

α-六六六	SHE23-06787.001	µg/L	0.5	<0.5	4.2	5	84.2	50%	130%
β-六六六	SHE23-06787.001	µg/L	0.5	<0.5	4.5	5	89.2	50%	130%



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基质加标(MS)

基质加标回收率%=(基质加标测定值-样品测定值) *100/基质加标量 (相关系数带入计算)。

参数	样品号	单位	检出限	样品测定值	MS测定值	基质加标量	回收率%	控制范围	
								下限	上限

半挥发性有机物 有机氯农药 方法：USEPA 8270E-2018(继续)

γ-六六六	SHE23-06787.001	µg/L	0.5	<0.5	4.7	5	93.4	50%	130%
α-氯丹	SHE23-06787.001	µg/L	0.5	<0.5	3.2	5	64.2	50%	130%
γ-氯丹	SHE23-06787.001	µg/L	0.5	<0.5	3.8	5	75.8	50%	130%
p,p'-滴滴依	SHE23-06787.001	µg/L	0.5	<0.5	4.0	5	80.0	50%	130%
p,p'-滴滴滴	SHE23-06787.001	µg/L	0.5	<0.5	4.1	5	82.0	50%	130%
o,p'-滴滴涕	SHE23-06787.001	µg/L	0.5	<0.5	4.1	5	82.4	50%	130%
p,p'-滴滴涕	SHE23-06787.001	µg/L	0.5	<0.5	4.1	5	82.0	50%	130%
硫丹 I	SHE23-06787.001	µg/L	0.5	<0.5	3.9	5	77.4	50%	130%
硫丹 II	SHE23-06787.001	µg/L	0.5	<0.5	3.7	5	73.2	50%	130%
七氯	SHE23-06787.001	µg/L	0.5	<0.5	4.1	5	81.2	50%	130%

半挥发性有机物 有机磷农药 方法：USEPA 8270E-2018

敌敌畏	SHE23-06787.001	µg/L	2	<2	4	5	72.8	50%	150%
乐果	SHE23-06787.001	µg/L	2	<2	3	5	62.4	50%	150%

水质 17种苯胺类化合物的测定 液相色谱-三重四级杆质谱法 方法：HJ 1048-2019

苯胺	SHE23-06785.001	µg/L	0.2	<0.2	9.7	10	97.0	70%	120%
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水质 可吸附有机卤素 (AOX) 的测定 微库仑法 方法：HJ 1214-2021

可吸附有机卤素	SHE23-06785.001	mg/L	0.007	0.009	0.115	0.1	106	80%	120%
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水质 多环芳烃的测定 液液萃取和固相萃取高效液相色谱法 方法：HJ 478-2009

十氟联苯	SHE23-06785.001	%	-	90	71	100	70.6	50	130
苯并(a)蒽	SHE23-06785.001	µg/L	0.007	<0.007	0.069	0.1	68.9	50%	130%
蒽	SHE23-06785.001	µg/L	0.008	<0.008	0.071	0.1	71.0	50%	130%
苯并(a)芘	SHE23-06785.001	µg/L	0.004	<0.004	0.063	0.1	63.5	50%	130%
苯并(b)荧蒽	SHE23-06785.001	µg/L	0.003	<0.003	0.071	0.1	71.2	50%	130%
苯并(k)荧蒽	SHE23-06785.001	µg/L	0.004	<0.004	0.071	0.1	71.4	50%	130%
芘并(1,2,3-cd)芘	SHE23-06785.001	µg/L	0.003	<0.003	0.075	0.1	74.6	50%	130%
二苯并(a,h)蒽	SHE23-06785.001	µg/L	0.003	<0.003	0.071	0.1	70.5	50%	130%

水质 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 639-2012

甲苯-d8	SHE23-06765.001	%	-	94.7	106	100	106	70	130
4-溴氟苯	SHE23-06765.001	%	-	119	95.1	100	95.1	70	130
二溴一氟甲烷	SHE23-06765.001	%	-	103	117	100	117	70	130
苯	SHE23-06765.001	µg/L	1.4	<1.4	21.6	20	108	60%	130%
甲苯	SHE23-06765.001	µg/L	1.4	<1.4	20.8	20	104	60%	130%
乙苯	SHE23-06765.001	µg/L	0.8	<0.8	21.8	20	109	60%	130%
苯乙烯	SHE23-06765.001	µg/L	0.6	<0.6	20.5	20	102	60%	130%
邻-二甲苯	SHE23-06765.001	µg/L	1.4	<1.4	20.6	20	103	60%	130%
间&对-二甲苯	SHE23-06765.001	µg/L	2.2	<2.2	45.6	40	114	60%	130%
1,2-二氯丙烷	SHE23-06765.001	µg/L	1.2	<1.2	21.0	20	105	60%	130%



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基质加标(MS)

基质加标回收率%=(基质加标测定值-样品测定值)*100/基质加标量(相关系数带入计算)。

参数	样品号	单位	检出限	样品测定值	MS测定值	基质加标量	回收率%	控制范围	
								下限	上限

水质 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 639-2012(继续)

氯甲烷	SHE23-06765.001	µg/L	1.5	<1.5	16.6	20	82.8	50%	130%
氯乙烯	SHE23-06765.001	µg/L	1.5	<1.5	16.8	20	84.2	60%	130%
1,1-二氯乙烯	SHE23-06765.001	µg/L	1.2	<1.2	20.7	20	103	60%	130%
二氯甲烷	SHE23-06765.001	µg/L	1.0	<1.0	18.4	20	91.9	60%	130%
反-1,2-二氯乙烯	SHE23-06765.001	µg/L	1.1	<1.1	19.6	20	98.0	60%	130%
1,1-二氯乙烷	SHE23-06765.001	µg/L	1.2	<1.2	21.3	20	106	60%	130%
顺-1,2-二氯乙烯	SHE23-06765.001	µg/L	1.2	<1.2	19.8	20	99.0	60%	130%
1,1,1-三氯乙烷	SHE23-06765.001	µg/L	1.4	<1.4	24.6	20	123	60%	130%
四氯化碳	SHE23-06765.001	µg/L	1.5	<1.5	23.7	20	118	60%	130%
1,2-二氯乙烷	SHE23-06765.001	µg/L	1.4	<1.4	24.4	20	122	60%	130%
三氯乙烯	SHE23-06765.001	µg/L	1.2	<1.2	18.4	20	92.0	60%	130%
1,1,2-三氯乙烷	SHE23-06765.001	µg/L	1.5	<1.5	21.7	20	109	60%	130%
四氯乙烯	SHE23-06765.001	µg/L	1.2	<1.2	22.6	20	113	60%	130%
1,1,1,2-四氯乙烷	SHE23-06765.001	µg/L	1.5	<1.5	22.9	20	114	60%	130%
1,1,2,2-四氯乙烷	SHE23-06765.001	µg/L	1.1	<1.1	25.5	20	127	60%	130%
1,2,3-三氯丙烷	SHE23-06765.001	µg/L	0.5	<0.5	21.5	20	107	60%	130%
氯苯	SHE23-06765.001	µg/L	1.0	<1.0	20.8	20	104	60%	130%
1,4-二氯苯	SHE23-06765.001	µg/L	0.8	<0.8	21.4	20	107	60%	130%
1,2-二氯苯	SHE23-06765.001	µg/L	0.8	<0.8	21.6	20	108	60%	130%
氯仿	SHE23-06765.001	µg/L	1.4	<1.4	22.7	20	114	60%	130%
苯	SHE23-06765.001	µg/L	1.0	<1.0	16.9	20	84.4	60%	130%

水质 汞、砷、硒、铋和锑的测定原子荧光法 方法：HJ 694-2014

汞	SHE23-06785.001	µg/L	0.04	<0.04	0.97	1	96.9	70%	130%
砷	SHE23-06785.001	µg/L	0.3	3.3	8.2	5	97.9	70%	130%

水质 65种元素的测定 电感耦合等离子体质谱法 方法：HJ 700-2014

镉	SHE23-06785.001	µg/L	0.05	<0.05	20.3	20	101	70%	130%
铜	SHE23-06785.001	µg/L	0.08	1.46	22.0	20	103	70%	130%
锰	SHE23-06785.001	µg/L	0.12	196	214	20	88.9	70%	130%
铅	SHE23-06785.001	µg/L	0.09	<0.09	15.7	20	78.3	70%	130%
镍	SHE23-06785.001	µg/L	0.06	0.79	20.8	20	100	70%	130%
锌	SHE23-06785.001	µg/L	0.67	0.88	21.6	20	104	70%	130%

水质 硝基苯类化合物的测定 气相色谱-质谱法 方法：HJ 716-2014

硝基苯-d5	SHE23-06785.001	%	-	94	89	100	89.3	70	110
硝基苯	SHE23-06785.001	µg/L	0.04	<0.04	0.84	1	83.6	70%	110%

水质 酚类化合物的测定 气相色谱-质谱法 方法：HJ 744-2015

2-氯苯酚	SHE23-06785.007	µg/L	0.1	<0.1	0.7	1	72.8	60%	130%
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水质 百菌清及拟除虫菊酯类农药的测定 气相色谱-质谱法 方法：HJ 753-2015



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基质加标(MS)

基质加标回收率%=(基质加标测定值-样品测定值) *100/基质加标量 (相关系数带入计算)。

参数	样品号	单位	检出限	样品测定值	MS测定值	基质加标量	回收率%	控制范围	
								下限	上限

水质 百菌清及拟除虫菊酯类农药的测定 气相色谱-质谱法 方法：HJ 753-2015(继续)

溴氰菊酯	SHE23-06785.005	µg/L	0.04	<0.04	0.86	1	86.0	60%	130%
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水质 阴离子的测定 离子色谱法 方法：HJ 84-2016

氯化物	SHE23-06785.003	mg/L	0.007	39.8	49.3	10	95.3	80%	120%
氟化物	SHE23-06785.003	mg/L	0.006	44.0	52.7	10	87.4	80%	120%
硫酸盐	SHE23-06785.003	mg/L	0.018	6.94	17.3	10	104	80%	120%
亚硝酸盐氮 (N计)	SHE23-06785.003	mg/L	0.005	<0.005	3.04	3.04	99.9	86%	120%
硝酸盐氮 (N计)	SHE23-06785.003	mg/L	0.0036	<0.0036	2.36	2.26	104	80%	120%

基质加标回收率评价：本批次测试的基质加标回收率结果均在控制范围内，符合实验室质量控制要求。

基质加标平行样(MSD)

基质加标平行样的相对偏差(RD)%=|样品基质加标回收率%-平行样基质加标回收率%|*100/(样品基质加标回收率%+平行样基质加标回收率%)。

参数	样品号	单位	检出限	样品基质加标回收率%	平行样基质加标回收率%	RD%	RD控制范围%	替代物控制范围
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半挥发性有机物的测定 气相色谱-质谱法 方法：USEPA 8270E-2018

硝基苯-d5	SHE23-06787.001	%	-	85.6	73.0	-	-	30-130
2-氟联苯	SHE23-06787.001	%	-	77.2	64.4	-	-	40-130
2,4,6-三溴苯酚	SHE23-06787.001	%	-	70.2	66.8	-	-	40-150
对-三联苯-d14	SHE23-06787.001	%	-	84.6	63.2	-	-	40-150
六氯苯	SHE23-06787.001	µg/L	0.5	66.4	62.6	2.9	≤17.5	-
阿特拉津	SHE23-06787.001	µg/L	2	77.8	75.0	1.8	≤17.5	-

半挥发性有机物 有机氯农药 方法：USEPA 8270E-2018

α-六六六	SHE23-06787.001	µg/L	0.5	84.2	81.6	1.6	≤17.5	-
β-六六六	SHE23-06787.001	µg/L	0.5	89.2	86.8	1.4	≤17.5	-
γ-六六六	SHE23-06787.001	µg/L	0.5	93.4	85.4	4.5	≤17.5	-
α-氯丹	SHE23-06787.001	µg/L	0.5	64.2	70.4	4.6	≤17.5	-
γ-氯丹	SHE23-06787.001	µg/L	0.5	75.8	75.2	0.4	≤17.5	-
p,p'-滴滴依	SHE23-06787.001	µg/L	0.5	80.0	86.6	4.0	≤17.5	-
p,p'-滴滴滴	SHE23-06787.001	µg/L	0.5	82.0	83.0	0.6	≤17.5	-
o,p'-滴滴涕	SHE23-06787.001	µg/L	0.5	82.4	71.4	7.2	≤17.5	-
p,p'-滴滴涕	SHE23-06787.001	µg/L	0.5	82.0	74.6	4.7	≤17.5	-
硫丹 I	SHE23-06787.001	µg/L	0.5	77.4	73.8	2.4	≤17.5	-
硫丹 II	SHE23-06787.001	µg/L	0.5	73.2	73.8	0.4	≤17.5	-



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基质加标平行样(MSD)

基质加标平行样的相对偏差(RD)%=|样品基质加标回收率%-平行样基质加标回收率%|*100/(样品基质加标回收率%+平行样基质加标回收率%)。

参数	样品号	单位	检出限	样品基质加标回收率%	平行样基质加标回收率%	RD%	RD控制范围%	替代物控制范围
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半挥发性有机物 有机氯农药 方法：USEPA 8270E-2018(继续)

七氯	SHE23-06787.001	µg/L	0.5	81.2	84.2	1.8	≤17.5	-
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半挥发性有机物 有机磷农药 方法：USEPA 8270E-2018

敌敌畏	SHE23-06787.001	µg/L	2	72.8	68.4	3.1	≤17.5	-
乐果	SHE23-06787.001	µg/L	2	62.4	63.0	0.5	≤17.5	-

水质 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 639-2012

甲苯-d8	SHE23-06765.001	%	-	106	105	-	-	70-130
4-溴氟苯	SHE23-06765.001	%	-	95.1	96.7	-	-	70-130
二溴一氟甲烷	SHE23-06765.001	%	-	117	112	-	-	70-130
苯	SHE23-06765.001	µg/L	1.4	108	105	1.4	≤30	-
甲苯	SHE23-06765.001	µg/L	1.4	104	102	1.2	≤30	-
乙苯	SHE23-06765.001	µg/L	0.8	109	106	1.4	≤30	-
苯乙烯	SHE23-06765.001	µg/L	0.6	102	96.0	3.3	≤30	-
邻-二甲苯	SHE23-06765.001	µg/L	1.4	103	97.1	3.0	≤30	-
间&对-二甲苯	SHE23-06765.001	µg/L	2.2	114	107	3.2	≤30	-
1,2-二氯丙烷	SHE23-06765.001	µg/L	1.2	105	105	0.1	≤30	-
氯甲烷	SHE23-06765.001	µg/L	1.5	82.8	82.4	0.2	≤30	-
氯乙烷	SHE23-06765.001	µg/L	1.5	84.2	81.0	2.0	≤30	-
1,1-二氯乙烯	SHE23-06765.001	µg/L	1.2	103	103	0.1	≤30	-
二氯甲烷	SHE23-06765.001	µg/L	1.0	91.9	93.0	0.6	≤30	-
反-1,2-二氯乙烯	SHE23-06765.001	µg/L	1.1	98.0	102	1.8	≤30	-
1,1-二氯乙烷	SHE23-06765.001	µg/L	1.2	106	116	4.2	≤30	-
顺-1,2-二氯乙烯	SHE23-06765.001	µg/L	1.2	99.0	98.0	0.5	≤30	-
1,1,1-三氯乙烷	SHE23-06765.001	µg/L	1.4	123	120	1.4	≤30	-
四氯化碳	SHE23-06765.001	µg/L	1.5	118	123	1.9	≤30	-
1,2-二氯乙烷	SHE23-06765.001	µg/L	1.4	122	120	0.9	≤30	-
三氯乙烯	SHE23-06765.001	µg/L	1.2	92.0	92.9	0.5	≤30	-
1,1,2-三氯乙烷	SHE23-06765.001	µg/L	1.5	109	106	1.3	≤30	-
四氯乙烯	SHE23-06765.001	µg/L	1.2	113	110	1.5	≤30	-
1,1,1,2-四氯乙烷	SHE23-06765.001	µg/L	1.5	114	114	0.3	≤30	-
1,1,2,2-四氯乙烷	SHE23-06765.001	µg/L	1.1	127	123	1.7	≤30	-
1,2,3-三氯丙烷	SHE23-06765.001	µg/L	0.5	107	110	1.0	≤30	-
氯苯	SHE23-06765.001	µg/L	1.0	104	99.0	2.5	≤30	-



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基质加标平行样(MSD)

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参数	样品号	单位	检出限	样品基质加标回收率%	平行样基质加标回收率%	RD%	RD控制范围%	替代物控制范围
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水质 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法：HJ 639-2012(继续)

1,4-二氯苯	SHE23-06765.001	µg/L	0.8	107	108	0.3	≤30	-
1,2-二氯苯	SHE23-06765.001	µg/L	0.8	108	108	0.1	≤30	-
氯仿	SHE23-06765.001	µg/L	1.4	114	112	0.5	≤30	-
苯	SHE23-06765.001	µg/L	1.0	84.4	116	15.9	≤30	-

水质 65种元素的测定 电感耦合等离子体质谱法 方法：HJ 700-2014

镉	SHE23-06785.001	µg/L	0.05	101	101	0.3	≤20	-
铜	SHE23-06785.001	µg/L	0.08	103	102	0.3	≤20	-
锰	SHE23-06785.001	µg/L	0.12	88.9	110	10.7	≤20	-
铅	SHE23-06785.001	µg/L	0.09	78.3	83.7	3.3	≤20	-
镍	SHE23-06785.001	µg/L	0.06	100	98.5	0.9	≤20	-
锌	SHE23-06785.001	µg/L	0.67	104	104	0.3	≤20	-

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Email ling.zhu@erm.com
订单号 -
样品 地下水(7)
项目 -

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报告编号 SHE23-06786 R0
SGS编号 0000293881
报告日期 2023/11/18
分析日期 2023/11/10 - 2023/11/17

备注

1. 结果适用于收到的样品。
2. 项目名称: 0689020。

报告批准人

李超然

陈颖

唐黎琦

报告编制

审核

批准人



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分析指标	方法	单位	检出限	检测结果	23-06786.001	23-06786.002	23-06786.003	23-06786.004
pH	HJ 1147	无量纲	-	7.6	7.6	7.7	7.5	
N,N-二甲基甲酰胺	by GC/FID	mg/L	0.5	ND	ND	ND	ND	
吡虫啉	GB/T 23214	µg/L	1	ND	ND	ND	ND	

分析指标	方法	单位	检出限	检测结果	23-06786.005	23-06786.006	23-06786.007
pH	HJ 1147	无量纲	-	7.4	7.4	7.5	
N,N-二甲基甲酰胺	by GC/FID	mg/L	0.5	ND	ND	ND	
吡虫啉	GB/T 23214	µg/L	1	ND	ND	ND	



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方法列表

HJ 1147-2020 水质 pH值的测定 电极法

by GC/FID DMF 实验室内部方法

GB/T 23214-2008 饮用水中450种农药及相关化学品残留量的测定 液相色谱-串联质谱法



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方法:HJ 1147-2020

仪器名称	型号	仪器编号	出厂序号
多参数分析仪	Mettler S470-K	CHEM-1109	B803289021

方法:by GC/FID

仪器名称	型号	仪器编号	出厂序号
气相色谱仪-火焰离子化检测器/氮磷检测器	Agilent 6890N	CHEM-ENV072	US10449051



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方法空白(MB)

参数	QC批号	单位	检出限	MB	控制范围
DMF 实验室内部方法 方法：by GC/FID					
N,N-二甲基甲酰胺	LB2340134	mg/L	0.5	<0.5	<0.5

方法空白结果评价：本批次测试的方法空白均低于检出限，符合实验室质量控制要求。

实验室控制样品 (LCS)

实验室控制样品回收率%=测定值*100/参考值。

参数	QC批号	单位	检出限	测定值	参考值	回收率%	控制范围	
							下限	上限
DMF 实验室内部方法 方法：by GC/FID								
N,N-二甲基甲酰胺	LB2340134	mg/L	0.5	5.3	5	106	50%	150%

实验室控制样品回收率评价：本批次测试的实验室控制样品回收率结果均在控制范围内，符合实验室质量控制要求。

实验室平行样 (DUP)

平行样的相对偏差(RD)%=|样品测定值-平行样测定值|*100/(样品测定值+平行样测定值)。

参数	样品号	单位	检出限	样品测定值	平行样测定值	RD%	RD控制范围%	替代物控制范围
DMF 实验室内部方法 方法：by GC/FID								
N,N-二甲基甲酰胺	SHE23-06786.001	mg/L	0.5	<0.5	<0.5	0.0	≤30	-

平行双样相对偏差结果评价：本批次测试的实验室平行样相对偏差均在控制范围内，符合实验室质量控制要求。

平行样的差值=|样品测定值-平行样测定值|

参数	样品号	单位	检出限	样品测定值	平行样测定值	差值	允许差值	替代物控制范围
水质 pH值的测定 电极法 方法：HJ 1147-2020								
pH	SHE23-06786.001	无量纲	-	7.6	7.6	0.0	≤0.1	-

平行样允许差值评价：本批次测试的实验室平行样差值在控制范围内，符合实验室质量控制要求。



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地址/邮编: 上海市虹口区四川北路1350号利通广场2005室		项目名称: 0850072-拜耳作物科学(中国)有限公司2023年自行监测	
联系人: 朱琴		项目所在地: 杭州	
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SGS 项目编号		SGS 报价号	
应出报告日		容器与保护剂	
样品描述		棕色玻璃瓶 1L/250ml	
实验编号		棕色玻璃瓶 50ml	
日期		聚乙烯瓶 250ml	
样品描述		棕色玻璃瓶 40ml	
实验编号		密封袋	
日期		PH	
样品描述		GB36600表1 水土导电率45通	
实验编号		石蕊酚 (C10-C40)	
日期		溴麝香草酚蓝	
样品描述		N,N-二甲苯甲酰胺 (DMF)	
实验编号		氯化物 Fluoride	
日期		特别说明 接收时条件	
样品描述		保温箱是否完整: _____	
实验编号		接收时保温箱温度: _____	
日期		样品瓶是否有破损: _____	
样品描述		其它: _____	
实验编号		□ 冷藏 □ 常温 □ 其它	
日期		要求分析参数、方法(可加附件)	
样品描述		是否需要在传输系统中: <input type="checkbox"/> 是 <input type="checkbox"/> 否	
实验编号		是否需要在客户直接送样过程的样品状态偏离为客户默认偏离。	
日期		备注: 如无特殊要求, 样品制备或客户直接送样过程的样品状态偏离为客户默认偏离。	
样品描述		样品接收	
实验编号		姓名: Kelly Kong	
日期		日期时间: 2023/11/8	
样品描述		日期时间: 2023-11-10	
实验编号		运送者: _____	
日期		送货单: _____	
样品描述		运送方法	

客户签名(或公章): 日期时间: 2023/11/8 姓名: Kelly Kong 日期时间: 2023-11-10 运送者: _____ 送货单: _____ 运送方法

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