

## 检测报告

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订单号 -  
样品 土壤(10)  
项目 -

## 实验室信息

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报告编号 TJE20-01607 R0  
SGS编号 0000017900  
报告日期 2020/09/04

## 备注

1. 结果适用于收到的样品。

## 报告批准人

冯天姝

冯天姝  
报告编制

孙莹

孙莹  
审核

窦铭超

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SGS-CSTC Inspection & Testing Services (Tianjin) Co., Ltd.  
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符号表/Legend

- NA 样品未测试该参数/The sample was not analysed for this analyte
- ↑ 提高检出限/Detection limit raised
- ↓ 降低检出限/Detection limit lowered
- ND 未检出/Not Detected



分析指标	方法	单位	检出限	检测结果			
				20-01607.001 BR-W3-S(0-0.5m) 土壤 杂色稍密无异味 2020/08/21	20-01607.002 BR-W3-S(1.5-2.0 m) 土壤 杂色稍密无异味 2020/08/21	20-01607.003 BR-S1(0-0.5m) 土壤 红褐色松散无异味 2020/08/21	20-01607.004 BR-S1-P(0-0.5m) 土壤 红褐色松散无异味 2020/08/21
干物质	HJ 613	%	-	79.8	76.5	74.8	74.1
pH	HJ 962	-	-	7.63	8.67	8.93	8.95
挥发性有机物 代用品							
甲苯-d8	HJ 605	%	-	74	72	76	73
4-溴氟苯	HJ 605	%	-	73	73	71	84
二溴一氟甲烷	HJ 605	%	-	122	129	126	116
VOC参数							
苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
乙苯	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
苯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
邻-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,3,5-三甲基苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2,4-三甲基苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
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
1,2-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2,4-三氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2,3-三氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
半挥发性有机物 代用品							
2-氟苯酚	HJ 834	%	-	56	47	52	48
苯酚-d6	HJ 834	%	-	77	53	52	57
硝基苯-d5	HJ 834	%	-	59	49	53	49
2-氟联苯	HJ 834	%	-	75	53	75	73
2,4,6-三溴苯酚	HJ 834	%	-	95	77	88	99
对-三联苯-d14	HJ 834	%	-	105	89	97	92
SVOC参数							
苯酚	HJ 834	mg/kg	0.1	ND	ND	ND	ND
2-氯苯酚	HJ 834	mg/kg	0.06	ND	ND	ND	ND
2-甲基苯酚	HJ 834	mg/kg	0.1	ND	ND	ND	ND
2,4-二硝基苯酚	HJ 834	mg/kg	0.1	ND	ND	ND	ND
萘	HJ 834	mg/kg	0.09	ND	ND	ND	ND
萘烯	HJ 834	mg/kg	0.09	ND	ND	ND	ND
萘	HJ 834	mg/kg	0.1	ND	ND	ND	ND
苊	HJ 834	mg/kg	0.08	ND	ND	ND	ND
菲	HJ 834	mg/kg	0.1	0.1	ND	0.1	0.1
蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
荧蒽	HJ 834	mg/kg	0.2	ND	ND	0.4	0.4
芘	HJ 834	mg/kg	0.1	0.2	ND	0.4	0.3
苯并(a)蒽	HJ 834	mg/kg	0.1	ND	ND	0.2	0.2
屈	HJ 834	mg/kg	0.1	0.1	ND	0.4	0.3
苯并(b)荧蒽	HJ 834	mg/kg	0.2	0.2	ND	0.6	0.5
苯并(k)荧蒽	HJ 834	mg/kg	0.1	ND	ND	0.2	0.2
苯并(a)芘	HJ 834	mg/kg	0.1	ND	ND	0.3	0.2
茚并(1,2,3-cd)芘	HJ 834	mg/kg	0.1	ND	ND	0.1	0.1
二苯并(a,h)蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
苯并(g,h,i)芘	HJ 834	mg/kg	0.1	ND	ND	ND	ND



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分析指标	方法	单位	检出限	检测结果	20-01607.001	20-01607.002	20-01607.003	20-01607.004
实验室编号 20-01607.001 20-01607.002 20-01607.003 20-01607.004 样品名称 BR-W3-S(0-0.5m) BR-W3-S(1.5-2.0 m) BR-S1(0-0.5m) BR-S1-P(0-0.5m) 检测类别 土壤 土壤 土壤 土壤 样品描述 杂色稍密无异味 土壤 红褐色松散无异味 红褐色松散无异味 收样日期 2020/08/21 2020/08/21 2020/08/21 2020/08/21								
石油烃类								
石油烃 (C <sub>10</sub> -C <sub>40</sub> )	HJ 1021	mg/kg	6	161	7	55	52	
实验室编号 20-01607.005 20-01607.006 20-01607.007 20-01607.008 样品名称 BR-S1(1.0-1.5m) BR-S2(0-0.5m) BR-S2-P(0-0.5m) BR-S2(1.5-2.0m) 检测类别 土壤 土壤 土壤 土壤 样品描述 黄褐色中密无异味 灰褐色中密无异味 灰褐色中密无异味 灰褐色中密无异味 收样日期 2020/08/21 2020/08/21 2020/08/21 2020/08/21								
分析指标	方法	单位	检出限	检测结果				
干物质	HJ 613	%	-	72.7	80.6	82.1	79.4	
pH	HJ 962	-	-	8.40	8.50	8.45	11.0	
挥发性有机物代用品								
甲苯-d8	HJ 605	%	-	77	121	121	122	
4-溴氟苯	HJ 605	%	-	72	73	72	71	
二溴一氟甲烷	HJ 605	%	-	126	86	129	77	
VOC参数								
苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
乙苯	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	
苯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
邻-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
1,3,5-三甲基苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
1,2,4-三甲基苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
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	
1,2-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
1,2,4-三氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
1,2,3-三氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND	
半挥发性有机物代用品								
2-氟苯酚	HJ 834	%	-	50	37	48	47	
苯酚-d6	HJ 834	%	-	52	51	58	57	
硝基苯-d5	HJ 834	%	-	50	47	54	49	
2-氟联苯	HJ 834	%	-	62	56	70	58	
2,4,6-三溴苯酚	HJ 834	%	-	93	78	87	91	
对-三联苯-d14	HJ 834	%	-	104	84	98	100	
SVOC参数								
苯酚	HJ 834	mg/kg	0.1	ND	ND	ND	ND	
2-氯苯酚	HJ 834	mg/kg	0.06	ND	ND	ND	ND	
2-甲基苯酚	HJ 834	mg/kg	0.1	ND	ND	ND	ND	
2,4-二硝基苯酚	HJ 834	mg/kg	0.1	ND	ND	ND	ND	
萘	HJ 834	mg/kg	0.09	ND	ND	ND	ND	
萘烯	HJ 834	mg/kg	0.09	ND	ND	ND	ND	
蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND	
苊	HJ 834	mg/kg	0.08	ND	ND	ND	ND	
菲	HJ 834	mg/kg	0.1	ND	ND	ND	ND	
蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND	
荧蒽	HJ 834	mg/kg	0.2	ND	ND	ND	ND	



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		实验室编号	20-01607.005	20-01607.006	20-01607.007	20-01607.008
		样品名称	BR-S1(1.0-1.5m)	BR-S2(0-0.5m)	BR-S2-P(0-0.5m)	BR-S2(1.5-2.0m)
		检测类别	土壤	土壤	土壤	土壤
		样品描述	黄褐色中密无异味	灰褐色中密无异味	灰褐色中密无异味	灰褐色中密无异味
		收样日期	2020/08/21	2020/08/21	2020/08/21	2020/08/21
分析指标	方法	单位	检出限	检测结果		
砘	HJ 834	mg/kg	0.1	ND	ND	ND
苯并(a)蒽	HJ 834	mg/kg	0.1	ND	ND	ND
屈	HJ 834	mg/kg	0.1	ND	ND	ND
苯并(b)荧蒽	HJ 834	mg/kg	0.2	ND	ND	ND
苯并(k)荧蒽	HJ 834	mg/kg	0.1	ND	ND	ND
苯并(a)芘	HJ 834	mg/kg	0.1	ND	ND	ND
茚并(1,2,3-cd)芘	HJ 834	mg/kg	0.1	ND	ND	ND
二苯并(a,h)蒽	HJ 834	mg/kg	0.1	ND	ND	ND
苯并(g,h,i)芘	HJ 834	mg/kg	0.1	ND	ND	ND
石油烃类						
石油烃 (C <sub>10</sub> -C <sub>40</sub> )	HJ 1021	mg/kg	6	11	18	22

		实验室编号	20-01607.009	20-01607.010
		样品名称	BR-S3(0-0.5m)	BR-S3(1.5-2.0m)
		检测类别	土壤	土壤
		样品描述	杂色中密无异味	杂色中密无异味
		收样日期	2020/08/21	2020/08/21
分析指标	方法	单位	检出限	检测结果
干物质	HJ 613	%	-	89.7
pH	HJ 962	-	-	8.98
挥发性有机物				
代用品				
甲苯-d8	HJ 605	%	-	119
4-溴氟苯	HJ 605	%	-	89
二溴一氟甲烷	HJ 605	%	-	129
VOC参数				
苯	HJ 605	mg/kg	0.05	ND
甲苯	HJ 605	mg/kg	0.05	ND
乙苯	HJ 605	mg/kg	0.05	ND
间&对-二甲苯	HJ 605	mg/kg	0.05	ND
苯乙烯	HJ 605	mg/kg	0.05	ND
邻-二甲苯	HJ 605	mg/kg	0.05	ND
1,3,5-三甲基苯	HJ 605	mg/kg	0.05	ND
1,2,4-三甲基苯	HJ 605	mg/kg	0.05	ND
氯苯	HJ 605	mg/kg	0.05	ND
1,4-二氯苯	HJ 605	mg/kg	0.05	ND
1,2-二氯苯	HJ 605	mg/kg	0.05	ND
1,2,4-三氯苯	HJ 605	mg/kg	0.05	ND
1,2,3-三氯苯	HJ 605	mg/kg	0.05	ND
半挥发性有机物				
代用品				
2-氟苯酚	HJ 834	%	-	55
苯酚-d6	HJ 834	%	-	58
硝基苯-d5	HJ 834	%	-	61
2-氟联苯	HJ 834	%	-	64
2,4,6-三溴苯酚	HJ 834	%	-	92
对-三联苯-d14	HJ 834	%	-	101
SVOC参数				
苯酚	HJ 834	mg/kg	0.1	ND
2-氟苯酚	HJ 834	mg/kg	0.06	ND



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实验室编号	20-01607.009	20-01607.010
样品名称	BR-S3(0-0.5m)	BR-S3(1.5-2.0m)
检测类别	土壤	土壤
样品描述	杂色中密无异味	杂色中密无异味
收样日期	2020/08/21	2020/08/21

分析指标	方法	单位	检出限	检测结果	
2-甲基苯酚	HJ 834	mg/kg	0.1	ND	ND
2,4-二硝基苯酚	HJ 834	mg/kg	0.1	ND	ND
萘	HJ 834	mg/kg	0.09	ND	ND
萘烯	HJ 834	mg/kg	0.09	ND	ND
萘	HJ 834	mg/kg	0.1	ND	ND
芴	HJ 834	mg/kg	0.08	ND	ND
菲	HJ 834	mg/kg	0.1	<b>0.3</b>	ND
蒽	HJ 834	mg/kg	0.1	ND	ND
荧蒽	HJ 834	mg/kg	0.2	<b>0.9</b>	ND
芘	HJ 834	mg/kg	0.1	<b>0.7</b>	ND
苯并(a)蒽	HJ 834	mg/kg	0.1	<b>0.4</b>	ND
屈	HJ 834	mg/kg	0.1	<b>0.5</b>	ND
苯并(b)荧蒽	HJ 834	mg/kg	0.2	<b>1.0</b>	ND
苯并(k)荧蒽	HJ 834	mg/kg	0.1	<b>0.3</b>	ND
苯并(a)芘	HJ 834	mg/kg	0.1	<b>0.5</b>	ND
茚并(1,2,3-cd)芘	HJ 834	mg/kg	0.1	<b>0.2</b>	ND
二苯并(a,h)蒽	HJ 834	mg/kg	0.1	ND	ND
苯并(g,h,i)芘	HJ 834	mg/kg	0.1	<b>0.2</b>	ND
<b>石油烃类</b>					
石油烃 ( C <sub>10</sub> -C <sub>40</sub> )	HJ 1021	mg/kg	6	<b>127</b>	<b>12</b>

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## 方法列表

- HJ 613-2011 土壤 干物质和水分的测定 重量法
- HJ 962-2018 土壤pH值的测定 电位法
- 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 1021-2019 土壤和沉积物 石油烃 (C10-C40)的测定 气相色谱法



SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.  
Environment Laboratory

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方法:HJ 613-2011

仪器名称	型号	仪器编号	出厂序号
电子天平	ME802	CHEM-012-M	B709778581

方法:HJ 962-2018

仪器名称	型号	仪器编号	出厂序号
pH计	S20	CHEM-007-C	1230445570

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	ATOMX XYZ/7890B/5977B	CHEM-017-P	US18110003/CN18183146/US1818M027

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	7890B/5977B	CHEM-017-S	CN180083019/US1825M002

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(双通道)	7890B	CHEM-033-D	CN16413009



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TB2006528			TB2006578		
DUP	MS	MSD	DUP		
TJE20-01583.003	TJE20-01583.003	TJE20-01583.003	TJE20-01660.003		
TB2006605			TB2006663		
DUP	MS	MSD	DUP	MS	MSD
TJE20-01608.006	TJE20-01608.006	TJE20-01608.006	TJE20-01607.004	TJE20-01607.004	TJE20-01607.004
TB2006876					
DUP	MS	MSD			
TJE20-01608.006	TJE20-01608.006	TJE20-01607.006			

MB为方法空白结果；  
LCS为实验室控制样品回收率，MS为基质加标回收率，以Recovery%表示；  
DUP以及MSD为双样以及双样加标回收率的相对偏差，以RD%表示。

**土壤pH值的测定 电位法 方法: HJ 962-2018**

分析指标	QC批号	单位	检出限	DUP %RD
pH	TB2006578	-	-	0%

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

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS	MS	MSD %RD
						%Recovery	%Recovery	
石油烃 (C <sub>10</sub> -C <sub>40</sub> )	TB2006528	mg/kg	6	<6	0%	104%	80%	6%
	TB2006605	mg/kg	6	<6	1%	93%	95%	2%

**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**

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS	MS	MSD %RD
						%Recovery	%Recovery	
2-氟苯酚	TB2006876	%	-	60%	3%	52%	56%	1%
苯酚-d6	TB2006876	%	-	57%	5%	57%	68%	0%
硝基苯-d5	TB2006876	%	-	57%	4%	54%	58%	0%
2-氟联苯	TB2006876	%	-	56%	2%	59%	74%	1%
2,4,6-三溴苯酚	TB2006876	%	-	66%	4%	82%	99%	0%
对-三联苯-d14	TB2006876	%	-	96%	2%	87%	101%	6%
苯酚	TB2006876	mg/kg	0.1	<0.1	0%	72%	65%	4%
2-氯苯酚	TB2006876	mg/kg	0.06	<0.06	0%	80%	63%	1%
2-甲基苯酚	TB2006876	mg/kg	0.1	<0.1	0%	71%	75%	1%
2,4-二硝基苯酚	TB2006876	mg/kg	0.1	<0.1	0%	74%	46%	6%
萘	TB2006876	mg/kg	0.09	<0.09	0%	79%	61%	0%
萘烯	TB2006876	mg/kg	0.09	<0.09	0%	79%	85%	3%
蒽	TB2006876	mg/kg	0.1	<0.1	0%	79%	83%	2%
苊	TB2006876	mg/kg	0.08	<0.08	0%	77%	97%	2%
菲	TB2006876	mg/kg	0.1	<0.1	0%	84%	104%	5%
蒽	TB2006876	mg/kg	0.1	<0.1	0%	85%	94%	1%
荧蒽	TB2006876	mg/kg	0.2	<0.2	0%	91%	91%	1%



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DUP以及MSD为双样以及双样加标回收率的相对偏差，以RD%表示。

**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)**

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS %Recovery	MS %Recovery	MSD %RD
苳	TB2006876	mg/kg	0.1	<0.1	5%	78%	97%	4%
苯并(a)蒽	TB2006876	mg/kg	0.1	<0.1	6%	91%	105%	2%
屈	TB2006876	mg/kg	0.1	<0.1	4%	89%	96%	1%
苯并(b)荧蒹	TB2006876	mg/kg	0.2	<0.2	0%	100%	116%	5%
苯并(k)荧蒹	TB2006876	mg/kg	0.1	<0.1	0%	96%	115%	2%
苯并(a)苳	TB2006876	mg/kg	0.1	<0.1	1%	93%	96%	1%
茚并(1,2,3-cd)苳	TB2006876	mg/kg	0.1	<0.1	0%	74%	84%	0%
二苯并(a,h)蒽	TB2006876	mg/kg	0.1	<0.1	0%	71%	76%	2%
苯并(g,h,i)苳	TB2006876	mg/kg	0.1	<0.1	0%	72%	73%	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**

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS %Recovery	MS %Recovery	MSD %RD
甲苯-d8	TB2006663	%	-	72%	1%	76%	71%	1%
4-溴氟苯	TB2006663	%	-	71%	2%	85%	80%	2%
二溴一氟甲烷	TB2006663	%	-	107%	0%	121%	119%	2%
苯	TB2006663	mg/kg	0.05	<0.05	0%	120%	123%	6%
甲苯	TB2006663	mg/kg	0.05	<0.05	0%	90%	124%	2%
乙苯	TB2006663	mg/kg	0.05	<0.05	0%	88%	NA	NA
间&对-二甲苯	TB2006663	mg/kg	0.05	<0.05	0%	99%	NA	NA
苯乙烯	TB2006663	mg/kg	0.05	<0.05	0%	75%	NA	NA
邻-二甲苯	TB2006663	mg/kg	0.05	<0.05	0%	100%	NA	NA
1,3,5-三甲基苯	TB2006663	mg/kg	0.05	<0.05	0%	110%	NA	NA
1,2,4-三甲基苯	TB2006663	mg/kg	0.05	<0.05	0%	98%	NA	NA
氯苯	TB2006663	mg/kg	0.05	<0.05	0%	93%	127%	10%
1,4-二氯苯	TB2006663	mg/kg	0.05	<0.05	0%	97%	NA	NA
1,2-二氯苯	TB2006663	mg/kg	0.05	<0.05	0%	101%	NA	NA
1,2,4-三氯苯	TB2006663	mg/kg	0.05	<0.05	0%	110%	NA	NA
1,2,3-三氯苯	TB2006663	mg/kg	0.05	<0.05	0%	121%	NA	NA

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