

检测报告

客户信息

实验室信息

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订单号	-	报告编号	TJE20-01097 R0
样品	废气(6)	SGS编号	000017022
项目	-	报告日期	2020/08/04

备注

1.结果适用于采样样品。

报告批准人



张田明
报告编制



王琳琳
审核



窦铭超
批准人



SGS-CSTC Inspection & Testing Services (Tianjin) Co., Ltd.
Environment Laboratory

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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



SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.
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					实验室编号	20-01097.001	20-01097.002	20-01097.003
					检测类别	有组织	有组织	有组织
					样品描述	-	-	-
					采样日期	2020/07/26	2020/07/26	2020/07/26
分析指标	方法	单位	检出限	限值				
采样位置	-	-	-	-	焚烧炉1#废气排放口	焚烧炉1#废气排放口	焚烧炉1#废气排放口	
采样时间	-	-	-	-	10:54-11:54	13:05-14:05	14:20-15:20	
烟道截面积	-	m ²	-	-	2.0106	2.0106	2.0106	
排气筒高度	-	m	-	-	80	80	80	
烟温	GB/T 16157	°C	-	-	147	148	151	
烟气流速	GB/T 16157	m/s	-	-	20.1	19.7	20.2	
含湿量	GB/T 16157	%	-	-	16.8	16.8	16.8	
标干气量	GB/T 16157	m ³ /h	-	-	7.80 X 10 ⁴	7.61 X 10 ⁴	7.75 X 10 ⁴	
静压	GB/T 16157	kPa	-	-	0.02	0.02	0.02	
氧含量	SEPA 2003	%	-	-	11.5	10.9	9.9	
颗粒物(排放浓度)	GB/T 16157	mg/m ³	20	-	<20	<20	<20	
颗粒物(折算浓度)	GB/T 16157	mg/m ³	-	≤30	<21.1	<19.8	<18.0	
颗粒物(排放速率)	GB/T 16157	kg/h	-	-	<1.49	<1.55	<1.50	
铬(排放浓度)	HJ 657	mg/m ³	0.000150	-	0.00382	0.00156	0.00224	
铬(折算浓度)	HJ 657	mg/m ³	-	-	4.03×10 ⁻³	1.55×10 ⁻³	2.02×10 ⁻³	
铬(排放速率)	HJ 657	kg/h	-	-	3.23×10 ⁻⁴	1.17×10 ⁻⁴	1.79×10 ⁻⁴	
铈(排放浓度)	HJ 657	mg/m ³	5.00 X 10 ⁻⁶	-	<0.00000500	<0.00000500	<0.00000500	
铈(折算浓度)	HJ 657	mg/m ³	-	-	<5.27×10 ⁻⁶	<4.95×10 ⁻⁶	<4.51×10 ⁻⁶	
铈(排放速率)	HJ 657	kg/h	-	-	<4.23×10 ⁻⁷	<3.73×10 ⁻⁷	<4.00×10 ⁻⁷	
铜(排放浓度)	HJ 657	mg/m ³	1.00 X 10 ⁻⁵	-	0.000303	0.000145	0.000441	
铜(折算浓度)	HJ 657	mg/m ³	-	-	3.19×10 ⁻⁴	1.44×10 ⁻⁴	3.97×10 ⁻⁴	
铜(排放速率)	HJ 657	kg/h	-	-	2.56×10 ⁻⁵	1.08×10 ⁻⁵	3.53×10 ⁻⁵	
锰(排放浓度)	HJ 657	mg/m ³	4.00 X 10 ⁻⁵	-	0.000565	0.000219	0.000505	
锰(折算浓度)	HJ 657	mg/m ³	-	-	5.95×10 ⁻⁴	2.17×10 ⁻⁴	4.55×10 ⁻⁴	
锰(排放速率)	HJ 657	kg/h	-	-	4.78×10 ⁻⁵	1.63×10 ⁻⁵	4.04×10 ⁻⁵	
铈(排放浓度)	HJ 657	mg/m ³	1.50 X 10 ⁻⁵	-	5.16 X 10⁻⁶	<0.0000150	<0.0000150	
铈(折算浓度)	HJ 657	mg/m ³	-	-	5.44×10 ⁻⁵	<1.49×10 ⁻⁵	<1.35×10 ⁻⁵	
铈(排放速率)	HJ 657	kg/h	-	-	4.37×10 ⁻⁶	<1.12×10 ⁻⁶	<1.20×10 ⁻⁶	
砷(排放浓度)	HJ 657	mg/m ³	0.000100	-	<0.000100	<0.000100	<0.000100	
砷(折算浓度)	HJ 657	mg/m ³	-	-	<1.05×10 ⁻⁴	<9.90×10 ⁻⁵	<9.01×10 ⁻⁵	
砷(排放速率)	HJ 657	kg/h	-	-	<8.46×10 ⁻⁶	<7.46×10 ⁻⁶	<8.01×10 ⁻⁶	
镉(排放浓度)	HJ 657	mg/m ³	5.00 X 10 ⁻⁶	-	<0.00000500	<0.00000500	<0.00000500	
镉(折算浓度)	HJ 657	mg/m ³	-	-	<5.27×10 ⁻⁶	<4.95×10 ⁻⁶	<4.51×10 ⁻⁶	
镉(排放速率)	HJ 657	kg/h	-	-	<4.23×10 ⁻⁷	<3.73×10 ⁻⁷	<4.00×10 ⁻⁷	
钴(排放浓度)	HJ 657	mg/m ³	5.00 X 10 ⁻⁶	-	6.04 X 10⁻⁶	3.25 X 10⁻⁶	4.10 X 10⁻⁶	
钴(折算浓度)	HJ 657	mg/m ³	-	-	6.36×10 ⁻⁵	3.22×10 ⁻⁵	3.70×10 ⁻⁵	
钴(排放速率)	HJ 657	kg/h	-	-	5.11×10 ⁻⁶	2.43×10 ⁻⁶	3.28×10 ⁻⁶	
铅(排放浓度)	HJ 657	mg/m ³	1.00 X 10 ⁻⁵	-	0.000196	<0.0000100	<0.0000100	
铅(折算浓度)	HJ 657	mg/m ³	-	-	2.06×10 ⁻⁴	<9.90×10 ⁻⁵	<9.01×10 ⁻⁵	
铅(排放速率)	HJ 657	kg/h	-	-	1.66×10 ⁻⁵	<7.46×10 ⁻⁶	<8.01×10 ⁻⁶	
镍(排放浓度)	HJ 657	mg/m ³	0.000100	-	0.00273	0.00173	0.00195	
镍(折算浓度)	HJ 657	mg/m ³	-	-	2.87×10 ⁻³	1.72×10 ⁻³	1.76×10 ⁻³	
镍(排放速率)	HJ 657	kg/h	-	-	2.31×10 ⁻⁴	1.29×10 ⁻⁴	1.56×10 ⁻⁴	
二氧化硫(排放浓度)	HJ 57	mg/m ³	3	-	<3	17	13	
二氧化硫(折算浓度)	HJ 57	mg/m ³	-	≤100	<3	17	12	
二氧化硫(排放速率)	HJ 57	kg/h	-	-	<0.223	1.30	0.996	
氮氧化物(排放浓度)	HJ 693	mg/m ³	3	-	132	134	155	
氮氧化物(折算浓度)	HJ 693	mg/m ³	-	≤300	138	132	139	



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分析指标	方法	单位	检出限	限值	实验室编号	20-01097.001	20-01097.002	20-01097.003
					检测类别	有组织	有组织	有组织
					样品描述	-	-	-
					采样日期	2020/07/26	2020/07/26	2020/07/26
氮氧化物(排放速率)	HJ 693	kg/h	-	-		9.79	10.4	11.6
一氧化碳(排放浓度)	HJ 973	mg/m ³	3	-		<3	13	6
一氧化碳(折算浓度)	HJ 973	mg/m ³	-	≤100		<3	13	5
一氧化碳(排放速率)	HJ 973	kg/h	-	-		<0.223	0.989	0.412
汞(排放浓度)	HJ 543	mg/m ³	0.0025	-		<0.0025	<0.0025	<0.0025
汞(折算浓度)	HJ 543	mg/m ³	-	≤0.05		<2.63×10 ⁻³	<2.48×10 ⁻³	<2.25×10 ⁻³
汞(排放速率)	HJ 543	kg/h	-	-		<1.86×10 ⁻⁴	<1.94×10 ⁻⁴	<1.87×10 ⁻⁴
氯化氢(排放浓度)	HJ 549	mg/m ³	0.07	-		4.25	14.8	18.9
氯化氢(折算浓度)	HJ 549	mg/m ³	-	≤60		4.48	14.7	17.1
氯化氢(排放速率)	HJ 549	kg/h	-	-		0.316	1.15	1.42
烟气黑度	HJ/T 398	grade	1	-		<1	<1	<1



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					实验室编号	20-01097.004	20-01097.005	20-01097.006
					检测类别	有组织	有组织	有组织
					样品描述	-	-	-
					采样日期	2020/07/27	2020/07/27	2020/07/27
分析指标	方法	单位	检出限	限值				
采样位置	-	-	-	-	焚烧炉2#废气排放口	焚烧炉2#废气排放口	焚烧炉2#废气排放口	
采样时间	-	-	-	-	09:26-10:26	10:42-11:42	13:50-14:50	
烟道截面积	-	m ²	-	-	2.0106	2.0106	2.0106	
排气筒高度	-	m	-	-	80	80	80	
烟温	GB/T 16157	°C	-	-	156	159	158	
烟气流速	GB/T 16157	m/s	-	-	16.1	16.7	16.8	
含湿量	GB/T 16157	%	-	-	18.9	18.9	18.9	
标干气量	GB/T 16157	m ³ /h	-	-	5.97 X 10 ⁴	6.13 X 10 ⁴	6.21 X 10 ⁴	
静压	GB/T 16157	kPa	-	-	-0.04	-0.04	-0.02	
氧含量	SEPA 2003	%	-	-	9.4	9.2	8.8	
颗粒物(排放浓度)	GB/T 16157	mg/m ³	20	-	<20	<20	<20	
颗粒物(折算浓度)	GB/T 16157	mg/m ³	-	≤30	<17.2	<16.9	<16.4	
颗粒物(排放速率)	GB/T 16157	kg/h	-	-	<1.16	<1.21	<1.22	
铬(排放浓度)	HJ 657	mg/m ³	0.000150	-	0.000760	0.00172	0.00216	
铬(折算浓度)	HJ 657	mg/m ³	-	-	6.55×10 ⁻⁴	1.46×10 ⁻³	1.77×10 ⁻³	
铬(排放速率)	HJ 657	kg/h	-	-	4.68×10 ⁻⁵	1.07×10 ⁻⁴	1.37×10 ⁻⁴	
铈(排放浓度)	HJ 657	mg/m ³	5.00 X 10 ⁻⁶	-	<0.00000500	<0.00000500	<0.00000500	
铈(折算浓度)	HJ 657	mg/m ³	-	-	<4.31×10 ⁻⁶	<4.24×10 ⁻⁶	<4.10×10 ⁻⁶	
铈(排放速率)	HJ 657	kg/h	-	-	<3.08×10 ⁻⁷	<3.12×10 ⁻⁷	<3.17×10 ⁻⁷	
铜(排放浓度)	HJ 657	mg/m ³	1.00 X 10 ⁻⁵	-	0.000158	0.000138	0.000147	
铜(折算浓度)	HJ 657	mg/m ³	-	-	1.37×10 ⁻⁴	1.17×10 ⁻⁴	1.21×10 ⁻⁴	
铜(排放速率)	HJ 657	kg/h	-	-	9.75×10 ⁻⁶	8.60×10 ⁻⁶	9.33×10 ⁻⁶	
锰(排放浓度)	HJ 657	mg/m ³	4.00 X 10 ⁻⁵	-	0.000378	0.000507	0.000766	
锰(折算浓度)	HJ 657	mg/m ³	-	-	3.26×10 ⁻⁴	4.30×10 ⁻⁴	6.28×10 ⁻⁴	
锰(排放速率)	HJ 657	kg/h	-	-	2.33×10 ⁻⁵	3.16×10 ⁻⁵	4.85×10 ⁻⁵	
铈(排放浓度)	HJ 657	mg/m ³	1.50 X 10 ⁻⁵	-	<0.0000150	1.60 X 10⁻⁵	<0.0000150	
铈(折算浓度)	HJ 657	mg/m ³	-	-	<1.29×10 ⁻⁵	1.35×10 ⁻⁵	<1.23×10 ⁻⁵	
铈(排放速率)	HJ 657	kg/h	-	-	<9.23×10 ⁻⁷	9.96×10 ⁻⁷	<9.50×10 ⁻⁷	
砷(排放浓度)	HJ 657	mg/m ³	0.000100	-	<0.000100	0.000146	<0.000100	
砷(折算浓度)	HJ 657	mg/m ³	-	-	<8.62×10 ⁻⁵	1.24×10 ⁻⁴	<8.20×10 ⁻⁵	
砷(排放速率)	HJ 657	kg/h	-	-	<6.15×10 ⁻⁶	9.12×10 ⁻⁶	<6.33×10 ⁻⁶	
镉(排放浓度)	HJ 657	mg/m ³	5.00 X 10 ⁻⁶	-	<0.00000500	<0.00000500	<0.00000500	
镉(折算浓度)	HJ 657	mg/m ³	-	-	<4.31×10 ⁻⁶	<4.24×10 ⁻⁶	<4.10×10 ⁻⁶	
镉(排放速率)	HJ 657	kg/h	-	-	<3.08×10 ⁻⁷	<3.12×10 ⁻⁷	<3.17×10 ⁻⁷	
钴(排放浓度)	HJ 657	mg/m ³	5.00 X 10 ⁻⁶	-	2.13 X 10⁻⁵	3.70 X 10⁻⁵	4.47 X 10⁻⁵	
钴(折算浓度)	HJ 657	mg/m ³	-	-	1.84×10 ⁻⁵	3.14×10 ⁻⁵	3.66×10 ⁻⁵	
钴(排放速率)	HJ 657	kg/h	-	-	1.31×10 ⁻⁶	2.31×10 ⁻⁶	2.83×10 ⁻⁶	
铅(排放浓度)	HJ 657	mg/m ³	1.00 X 10 ⁻⁵	-	<0.0000100	<0.0000100	<0.0000100	
铅(折算浓度)	HJ 657	mg/m ³	-	-	<8.62×10 ⁻⁵	<8.47×10 ⁻⁵	<8.20×10 ⁻⁵	
铅(排放速率)	HJ 657	kg/h	-	-	<6.15×10 ⁻⁶	<6.23×10 ⁻⁶	<6.33×10 ⁻⁶	
镍(排放浓度)	HJ 657	mg/m ³	0.000100	-	0.00113	0.00168	0.00207	
镍(折算浓度)	HJ 657	mg/m ³	-	-	9.78×10 ⁻⁴	1.43×10 ⁻³	1.70×10 ⁻³	
镍(排放速率)	HJ 657	kg/h	-	-	6.98×10 ⁻⁵	1.05×10 ⁻⁴	1.31×10 ⁻⁴	
二氧化硫(排放浓度)	HJ 57	mg/m ³	3	-	27	34	33	
二氧化硫(折算浓度)	HJ 57	mg/m ³	-	≤100	23	29	27	
二氧化硫(排放速率)	HJ 57	kg/h	-	-	1.58	2.04	2.00	
氮氧化物(排放浓度)	HJ 693	mg/m ³	3	-	214	190	190	
氮氧化物(折算浓度)	HJ 693	mg/m ³	-	≤300	184	161	155	



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分析指标	方法	单位	检出限	限值	实验室编号	20-01097.004	20-01097.005	20-01097.006
					检测类别	有组织	有组织	有组织
					样品描述	-	-	-
					采样日期	2020/07/27	2020/07/27	2020/07/27
氮氧化物(排放速率)	HJ 693	kg/h	-	-		12.4	11.4	11.5
一氧化碳(排放浓度)	HJ 973	mg/m ³	3	-		7	10	10
一氧化碳(折算浓度)	HJ 973	mg/m ³	-	≤100		6	8	8
一氧化碳(排放速率)	HJ 973	kg/h	-	-		0.409	0.583	0.577
汞(排放浓度)	HJ 543	mg/m ³	0.0025	-		0.0182	<0.0025	<0.0025
汞(折算浓度)	HJ 543	mg/m ³	-	≤0.05		0.02	<2.12×10 ⁻³	<2.05×10 ⁻³
汞(排放速率)	HJ 543	kg/h	-	-		1.05×10 ⁻³	<1.51×10 ⁻⁴	<1.52×10 ⁻⁴
氯化氢(排放浓度)	HJ 549	mg/m ³	0.07	-		<0.07	15.0	4.82
氯化氢(折算浓度)	HJ 549	mg/m ³	-	≤60		<0.0603	12.7	3.96
氯化氢(排放速率)	HJ 549	kg/h	-	-		<4.05×10 ⁻³	0.902	0.293
烟气黑度	HJ/T 398	grade	1	-		<1	<1	<1

备注：

采样地址：天津市蓟州区别山镇西九户村东北1000米。

排气筒高度由客户提供。

限值：GB18485 - 2014 《生活垃圾焚烧污染控制标准》表4。



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方法列表

GB/T 16157-1996 固定污染源排气中颗粒物测定与气态污染物采样方法
 SEPA 2003 《空气和废气监测分析方法》(第四版)国家环境保护总局(2003)
 GB/T 16157-1996 及其修改单 固定污染源排气中颗粒物测定与气态污染物采样方法
 HJ 657-2013 及修改单 空气和废气 颗粒物中铅等金属元素的测定 电感耦合等离子体质谱法
 HJ 57-2017 固定污染源废气 二氧化硫的测定 定电位电解法
 HJ 693-2014 固定污染源废气 氮氧化物的测定 定电位电解法
 HJ 973-2018 固定污染源废气 一氧化碳的测定 定电位电解法
 HJ 543-2009 固定污染源废气 汞的测定 冷原子吸收分光光度法(暂行)
 HJ 549-2016 环境空气和废气 氯化氢的测定 离子色谱法
 HJ/T 398-2007 固定污染源排放 烟气黑度的测定 林格曼烟气黑度图法



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方法:采样仪器信息(Sampling equipment information)*

仪器名称	型号	仪器编号	出厂序号
自动烟尘/气测试仪	LAOYING 3012H	ENV556	A11030112
双路烟气采样器	ZR-3710	ENV592	371019053484
低浓度自动烟尘烟气综合测试仪	ZR-3260D	ENV595	3260D19068609

方法:GB/T 16157-1996

仪器名称	型号	仪器编号	出厂序号
自动烟尘/气测试仪	LAOYING 3012H	ENV556	A11030112
低浓度自动烟尘烟气综合测试仪	ZR-3260D	ENV595	3260D19068609

方法:SEPA 2003

仪器名称	型号	仪器编号	出厂序号
自动烟尘/气测试仪	LAOYING 3012H	ENV556	A11030112
低浓度自动烟尘烟气综合测试仪	ZR-3260D	ENV595	3260D19068609

方法:GB/T 16157-1996

仪器名称	型号	仪器编号	出厂序号
电子天平	BSA224S	CHEM-004-F	24091763

方法:HJ 657-2013

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	NEXION 350X	CHEM-080-A	85XN6101801

方法:HJ 57-2017

仪器名称	型号	仪器编号	出厂序号
低浓度自动烟尘烟气综合测试仪	ZR-3260D	ENV595	3260D19068609

方法:HJ 693-2014

仪器名称	型号	仪器编号	出厂序号
低浓度自动烟尘烟气综合测试仪	ZR-3260D	ENV595	3260D19068609

方法:HJ 973-2018

仪器名称	型号	仪器编号	出厂序号
低浓度自动烟尘烟气综合测试仪	ZR-3260D	ENV595	3260D19068609

方法:HJ 543-2009

仪器名称	型号	仪器编号	出厂序号
测汞仪	DMA-80	CHEM-015-C	17032196

方法:HJ 549-2016

仪器名称	型号	仪器编号	出厂序号
离子色谱仪	INTEGRION	CHEM-029C	16070419

方法:HJ/T 398-2007

仪器名称	型号	仪器编号	出厂序号
黑度板	HM-LG30	ENV586	/


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项目 样品编号	镉、铊及其化合物	砷、锑、铅、铬、钴、铜、 锰、镍及其化合物	限值	
	排放浓度 (mg/m ³)	排放浓度 (mg/m ³)	镉、铊及其化合物 (mg/m ³)	砷、锑、铅、铬、钴、铜、 锰、镍及其化合物 (mg/m ³)
TJE20-01097.001	0	0.00814	0.1	1.0
TJE20-01097.002	0	0.00366		
TJE20-01097.003	0	0.00467		
TJE20-01097.004	0	0.00211		
TJE20-01097.005	0	0.00361		
TJE20-01097.006	0	0.00426		

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