

中华人 共和国国家 境 准

HJ 1330—2023

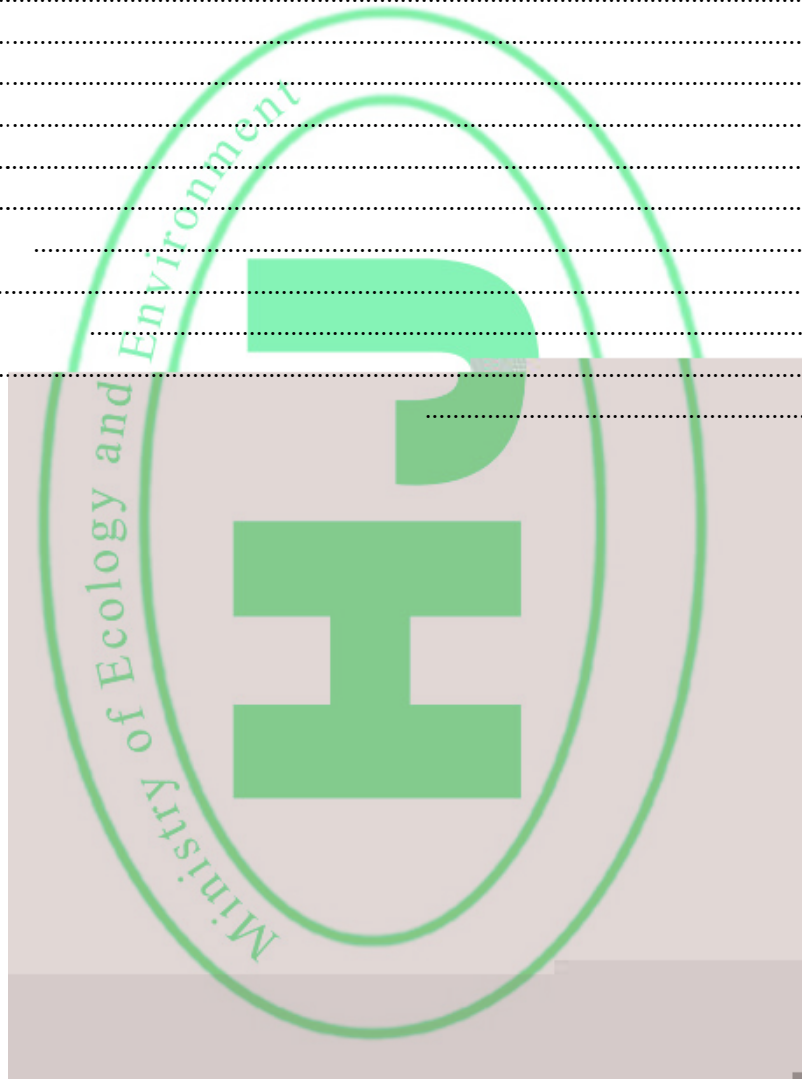
固定污染源废气 氨和氯化氢的测定  
便携式傅立叶变换红外光谱法



2023-12-05

2024-07-01

	.....	
1	.....	1
2	.....	1
3	.....	1
4	.....	2
5	.....	2
6	.....	2
7	.....	2
8	.....	3
9	.....	3
10	.....	4
11	.....	5
12	.....	5
13	.....	6
A	.....	7



1330 2023

1

NH<sub>3</sub> HC

NH<sub>3</sub> HC  
NH<sub>3</sub> HC  
1 / 3 4 / 3

2

GB/T 16157  
HJ 75  
HJ/T 373  
HJ/T 397  
HJ 1011

SO<sub>2</sub> NO

3

3.1

calibration

3.2

adjustment

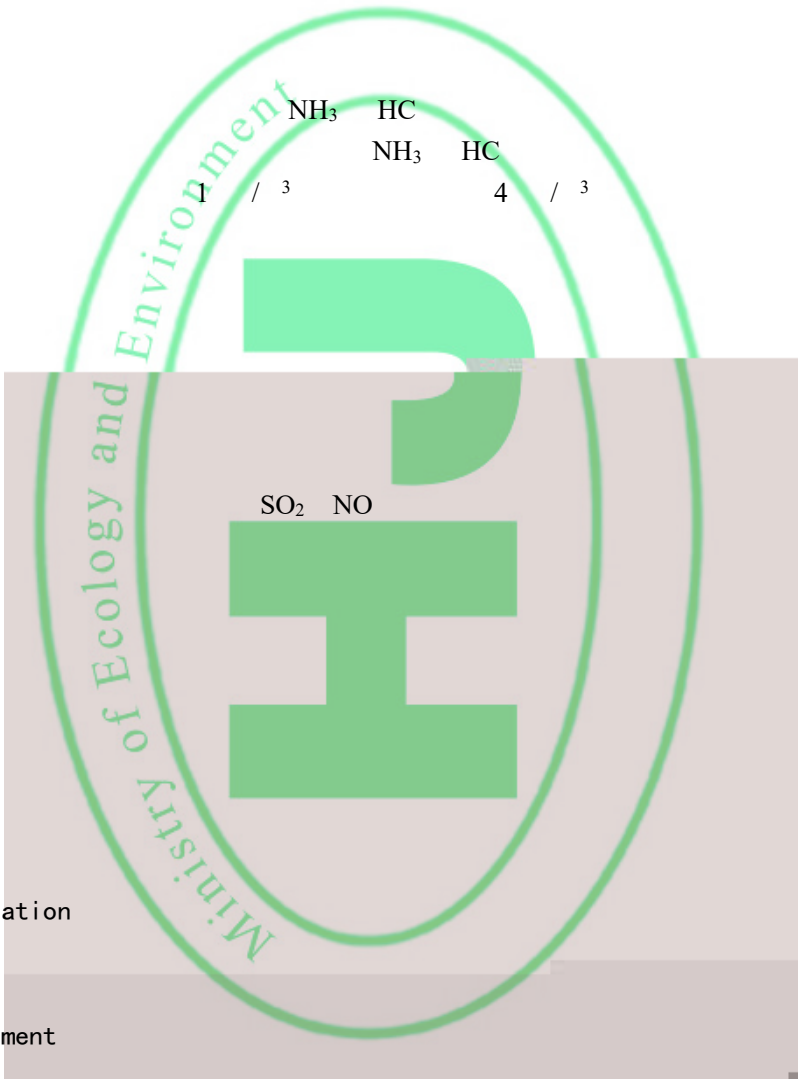
3.3

calibration span (C. S. )

3.4

error of indication

3.5



1330 2023

system bias

3.6

zero drift

3.7

span drift

4

NH<sub>3</sub> HC 900 -1 1350 -1 2600 -1 3100 -1

HC

NH<sub>3</sub>

5

NH<sub>3</sub> HC

5.1

NH<sub>3</sub> HC 180

5.2

5.3

6

6.1

NH<sub>3</sub> HC N<sub>2</sub> 2%  $k=2$

6.3

6.2

99.999% N<sub>2</sub>

6.3

5 L/ 50%

0.5%

50%

1.0%

7

7.1

7.1.1

7.1.2

a	NH <sub>3</sub>	HC	60	/	5%	60	/
	3	/					
b	NH <sub>3</sub>	HC	60	/	5%	60	/
	3	/					
	NH <sub>3</sub>	HC	60	/	3%	60	/
	3	/					
	NH <sub>3</sub>	HC	60	/	3%	60	/
	3	/					

900<sup>-1</sup> 4000<sup>-1</sup>

180 5

HJ 1011 II

8

GB/T 16157 HJ 75 HJ/T 373 HJ/T 397

9

9.1

9.2

9.2.1

9.2.2

7.1.2 a

9.3

9.3.1

9.3.2

5 15

1

9.3.3

9.3.4

10 与

10.1

273 K 101.325 Pa

a

1

$\rho$

$$\rho = \frac{M}{22.4} \times x' \times \frac{1}{1-\varphi}$$

1

$\rho$

/<sup>3</sup>

$M$

/

22.4

L/

$x'$

/

$\varphi$

b

2

$\rho$

$$\rho = \rho' \times \frac{1}{1-\varphi}$$

2

$\rho$

/<sup>3</sup>

$\rho'$

/<sup>3</sup>

$\varphi$

10.2

11

11.1

6		5 / 3	20 / 3	60 / 3	100 / 3	NH <sub>3</sub>					
6				0.26%	2.3%	0.25%	0.63%	0.19%	1.6%	0.12%	
0.63%				7.2%	5.6%	2.7%	1.1%		0.2 / 3	0.2 / 3	
2 / 3	0.9 / 3			1 / 3	3 / 3	5 / 3	3 / 3				
6				NH <sub>3</sub>				NH <sub>3</sub>			
24.1 / 3	25.2 / 3			24.7 / 3		NH <sub>3</sub>	28.8 / 3	31.5 / 3			
	30.3 / 3					0.87%	1.4%	4.6%	11%		
	1.5%	3.0%		0.8 / 3	7 / 3			1 / 3	7 / 3		
6				5 / 3	19.8 / 3	147 / 3	293 / 3	HC			
6						0.77%	2.0%	0.37%	4.9%	0.072%	0.87%
0.17%	1.6%				6.1%	4.0%	2.3%	1.1%		0.2 / 3	
1 / 3	2 / 3	7 / 3			0.8 / 3	2 / 3	10 / 3	11 / 3			
6						HC					
HC	4.8 / 3	7.1 / 3		5.9 / 3				HC	59.5 / 3		
62.0 / 3		61.1 / 3						16%	20%	2.6%	4.0%
		13%	6.5%		3 / 3	5 / 3			4 / 3	12 / 3	

11.2

6		5 / 3	20 / 3	60 / 3	100 / 3	NH <sub>3</sub>							
6				0.60%	12%	1.4%	11%	0.15%	5.0%	0.17%	1.6%		
	5.3%	8.8%	4.7%	6.6%	2.3%	3.6%	0.95%	1.0%					
6				5 / 3	19.8 / 3	147 / 3	293 / 3	HC					
6						1.6%	16%	0.20%	8.9%	0.20%	3.7%	0.034%	2.8%
	9.3%	11.4%	3.1%	6.4%	1.7%	2.6%	1.4%	2.2%					

12

12.1

7.1.2 a      7.1.2 b

12.2

7.1.2 a  
20%    100%

12.3

1  
7.1.2      7.1.2



:

13

13.1

13.2

13.3

13.4

13.5

13.6



( A )

---

---

---

---

---

---

---

---

/ / 3

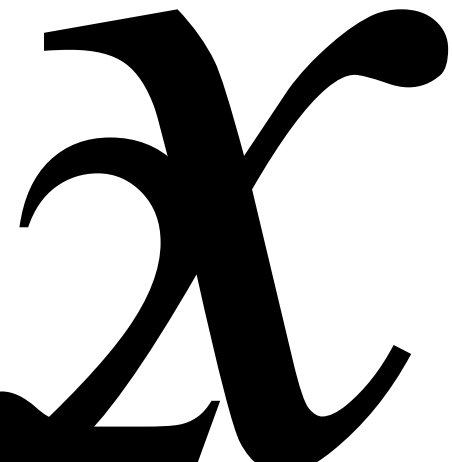
A. 1 i

$x$   $x_i$   $\bar{x}_i$   $x_i$   $\bar{x}_i$

1  
2

$\frac{1}{x_i \bar{x}_i - 2x}$

1



A. 3

$x$		$x_{i,0}$	$x_i$	$x_1=x_i$		$x_{i,0}$	$x_{j,0}$	$x_j$	$x_2=x_j$		$x_{j,0}$
1											
2				$x_1=x_i$		$x_{i,0}$	$x_1/C.S. \times 100\%$		C.S.		
3				$x_2=x_j$		$x_{j,0}$	$x_2/C.S. \times 100\%$		C.S.		

