

2501-330652-04-02-589547

2500

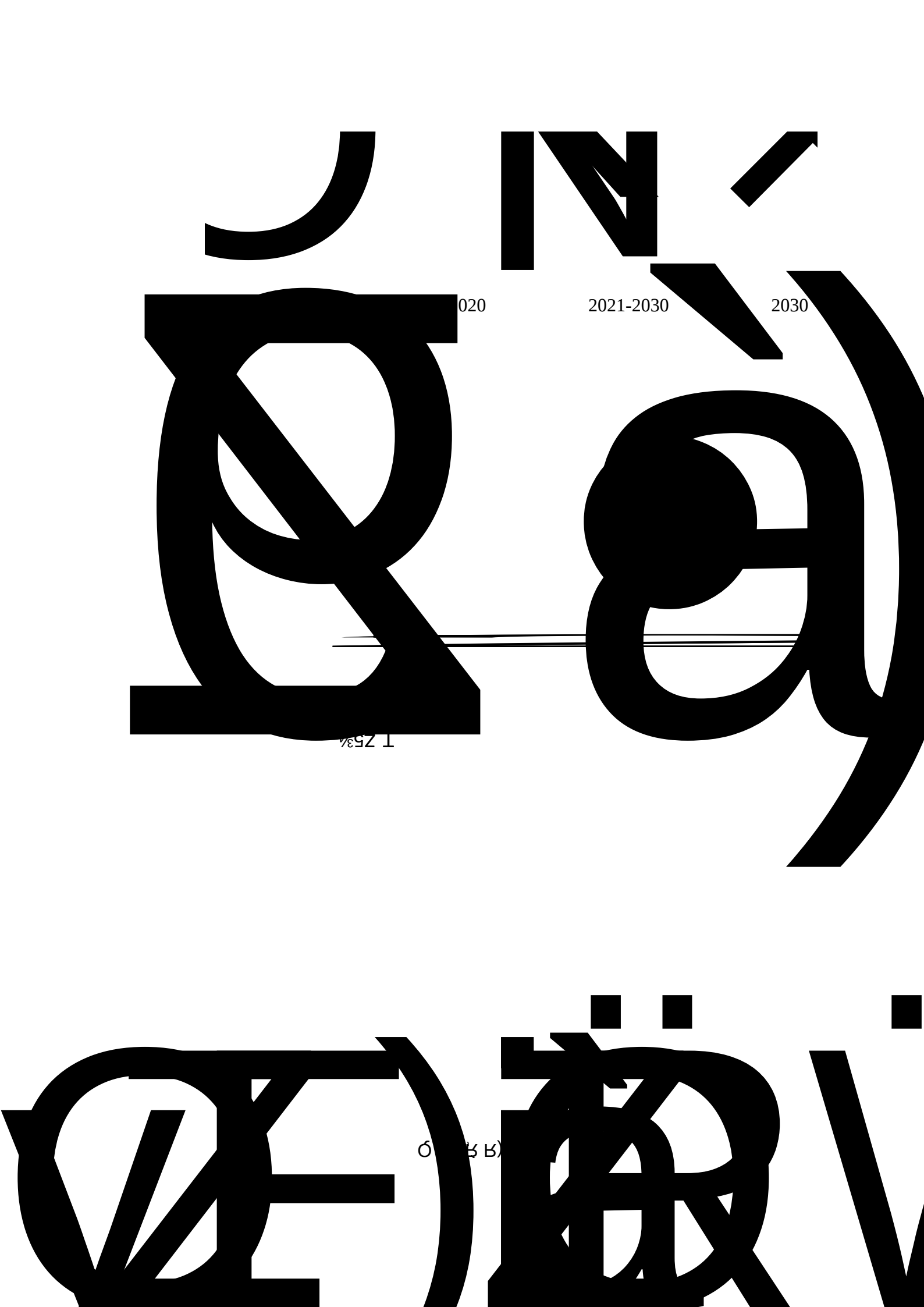
.....	1
.....	24
.....	42
.....	51
.....	Ö

6 MSDS

7

8

	2500		
	2501-330652-04-02-589547		
			18888739867
	56		7
	120	37	31.717 30 5 13.065
	C3982		398
			√ ☐ ☐ ☐
/		/	2501-330652-04-02-589547
	4034.71		90
%	2.2		3
	√	m ²	4260
	1.1-1		
	[a] 500	[a]	



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2021-2030

2030

1 25%

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1.1-2

	329	0602- -0-4			

2 “ ”

56

3 “ ”

4 “ ”

5 “ ” 1.1-3

1.1-3

0602-
-0-4”

DMF

VOCs >420g/L

	3		
	56		
	[2024]36		
	ZH33060220001		
	1.1-4		
	1.1-4		
		2024	
		2025	
		C3982	
		1	[2024]36
		56	7

		ZH33060220001	
4		56	
		7	
5	“ ”		
	1.1-6	“ ”	
1	VOCs VOCs (VOCs) VOCs	ZH33060220001 GB/T 38597-2020 GB 33372-2020 GB38508-2020 2.2.4-2 VOCs	
2	“ ” () ()		

VOCs

1.1-4

VOCs
1 2

VOCs

VOCs

2

3

VOCs

2025

5000

VOCs

VOCs

60%

(3)

VOCs

70%

VOCs

60%

“

”

“

”

10

VOCs

VOCs

VOCs

HJ 944
VOCs

VOCs



30

2025

60

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100

/

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VOCs

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”“

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v

#0C075

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			“ ”		
	6		2023 “ ” 2025 6 2022 12 35 / “ ” () A		
	7		B A B		
	8		VOCs 2023 8 VOCs 2025 VOCs 2023 3 “ ” 2023 8	VOCs	

		2025		
8	(2020)			
	3.5			
9	(2022)			
1.1-9	(2022)			
1				
2				

()

56

3

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ZH33060220001

56

4

56

5

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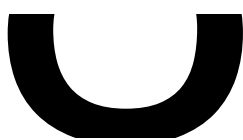
6 ()

()

()

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- Aî Ê Ä



			“ ”	
11	2023			
				2023
12	([2024]11)			
	1.1-11			()
		2024		
		(SCR) 2025 6 2024 ,2027		
	VOC s	VOCs	GB/T 38597-2020 GB 33372-2020 GB38508-2020	
		VOCs		
		VOCs ,		

[REDACTED] [REDACTED] [REDACTED]

2.1 .

		1 1617m ² 1	420m ² 1 108m ²
		38.5m ² 22m ² 36m ²	
		/UV	
		“ ”	
		DA001	
		30 m ² 1	30m ² 1

2.2.1-2

			m ²
1			765
2			1742
3	DIP)		1390
4	SMT)		1430

2.2.2

2.2.2-1

2.2.2-1

	(/)	(/)	(/)	
	200	2500	+2300	0.15m*0.15 m
	200	2500	+2300	

SMT

200 /

2500 /

/UV

2.2.2-2

/

750

300

450

	2.2.4-1 SMT A
--	--

2.2.4.2

MSDS

VOC

VOCs

VOC

10%

MSDS

2.2.4-3

2.2.4-3

0 32
° F 18255.6 mg/kg

/ LD₅₀
4g/kg LD₅₀
2.5g/kg

1.20 ± 10%g/cm³
0-10

25 2.0 pH
7.5

LD50 1790mg/kg
3200mg/kg

0.81 ± 0.01 20
12
% V/V 7.99%
% V/V 1.72%

LC50
LD50 5000mg/kg
3600mg/kg
6410mg/kg
12800mg/kg

1.65 ± 0.05g/cm³

>200

>400

1.75g/ml(40

)

LD50>1200mg/kg

pH 7.0 ± 0.5

25 0.98

460 78

đ

đ 25m " W

1580mg/kg

LD50 7460

uL/kg

A

(LD50) - - 13,600

mg/kg

(LD50) - -

- > 2,000 mg/kg

LD50 5620

mg/kg() 4940

mg/kg() LC50

5760mg/m³ 8 (

)

LD50 5800

mg/kg() 20000

mg/kg()

(LD50)

- - -

2,800 mg/kg

(LD50)

- - - >

2,000 mg/kg



ł

5) AOI	PCBA	
PCBA		
6) AI	DIP	PCB

			/UV	VOCs			
				VOCs			
				COD _{Cr}			
				/UV			

2.5.1

20057

2.5.1-1

2.5.1-1

1	20105	200	200	[2010]92	20109 2010171	/

91330600776608451E001W

COD_{Cr}500mg/L

DB33/887-2013

35mg/LCOD_{Cr} 0.733 / NH₃-N 0.064 /

COD_{Cr}COD_{Cr}80mg/L

10mg/L	COD _{Cr}	0.147t/a	0.018t/a
		200	
	VOCs		0.2t/a
VOCs	0.588t/a		
	2.5.1-2		
	t/a		

2.5.3-1						
			(/)			
1		/	4	4	4	
2		/	4	4	4	
3		/	7	7	7	
4		/	2	2	2	
5		/	2	2	2	
6		/	2	2	2	
7		/	2	2	2	
8		/	2	2	2	

2.5.4

2.5-1

1

2 PCB

3

4

5

PCB

PCB

PCB

PCB

PCB

(GB8978-1996)

DB33/887-2013

3

2.5.5-3

2.5.5-3

2.5.5-3

	t/a	3718.75	3718.75
CODcr	mg/L	144	80
	t/a	0.536	0.298
NH ₃ -N	mg/L	31.6	10
	t/a	0.118	0.037

2.5.5.2

1

(

2024(HJ)120696 2024 12 23)

		kg/h		8.27×10^{-4}	0.52	
--	--	------	--	-----------------------	------	--

(DB16297-1996) 10^{-4} kg/h 2000h 8.27 ×
0.0017t/a 0.0028t/a





2.5.5-8

2024

VOCs(t/a)	0.569
(t/a)	0.0017
(t/a)	3718.75
CODcr(t/a)	0.959
(t/a)	0.120

“ 5 3 ”

(1)

3.1-2

3.1.3

.

/m

3.3-1 DA001 (mg/m³)					
1			1000		DB33/2146-2018
2	(NMHC)		80		
3	TVOC		60		

3.3-2 DA001 (mg/m³)			
	GB16297- 1996		
		mg/m³	kg/h
	15	120	3.5
	15	8.5	0.31
	15	5.0	0.15

2

VOCs

DB33/2146-2018

GB16297- 1996 2

3.3-3

3.3-3 mg/m³

1	VOCs		4.0	DB33/2146-2018
2			20	
3		/	1.0	GB16297- 1996
4		/	0.24	
5		/	0.04	

VOCs

GB37822-2019 3.3-4

3.3-4

	mg/m³		
NMHC	6	1h	
	20		

3.3.2

GB8978-1996 4

DB33

887-2013

[2017]57

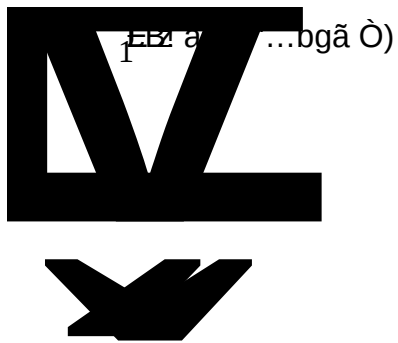
GB/T31962-2015

91330621736016275G001V

3.3-5	pH	mg/L
pH	6 9	6 9
(COD _{Cr})≤	500	80
(BOD ₅)≤	300	20
≤	400	6 9

	(2025) (GB5085.7-2019) (2024 4) GB18599-2020 () (GB18597-2023)																																																				
	3.4 COD < > ([2014]197) VOCs 3.4.1 3.4-1 3.4-1 <table> <tr> <th colspan="2"></th><th></th><th>“ ”</th><th></th><th colspan="2"></th><th></th></tr> <tr> <th colspan="2"></th><th>t/a</th><th>1832.8</th><th>1832.8</th><th>10200</th><th>10200</th><th>8367.2</th></tr> <tr> <td rowspan="2">COD(t/a)</td><td></td><td></td><td>0.916</td><td>0.916</td><td>5.100</td><td>5.100</td><td>4.184</td></tr> <tr> <td></td><td></td><td>0.147</td><td>0.147</td><td>0.816</td><td>0.816</td><td>0.669</td></tr> <tr> <td rowspan="2">NH₃-N(t/a)</td><td></td><td></td><td>0.064</td><td>0.064</td><td>0.357</td><td>0.357</td><td>0.293</td></tr> <tr> <td></td><td></td><td>0.018</td><td>0.018</td><td>0.102</td><td>0.102</td><td>0.084</td></tr> </table>										“ ”							t/a	1832.8	1832.8	10200	10200	8367.2	COD(t/a)			0.916	0.916	5.100	5.100	4.184			0.147	0.147	0.816	0.816	0.669	NH ₃ -N(t/a)			0.064	0.064	0.357	0.357	0.293			0.018	0.018	0.102	0.102	0.084
			“ ”																																																		
		t/a	1832.8	1832.8	10200	10200	8367.2																																														
COD(t/a)			0.916	0.916	5.100	5.100	4.184																																														
			0.147	0.147	0.816	0.816	0.669																																														
NH ₃ -N(t/a)			0.064	0.064	0.357	0.357	0.293																																														
			0.018	0.018	0.102	0.102	0.084																																														

	(t/a)		0.082	0.082	0.459	0.459	0.459	0.377
			0.027	0.027	0.153	0.153	0.153	0.126
	VOCs		0.588	0.588	0.951	0.951	0.951	0.363
	(t/a)		0.0028	0.0028	0.011	0.011	0.011	0.008
* COD								
97.1% VOCs 0.388t/a 0.4t/a								



" "

7

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2

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4

4.2

4.2.1

#q: # (TM↓ >Xí

@ QP,@ 2D

4.2-1

/

h

(h)

UV

2t VOCs

MSDS

95%

98%

80%

“

+ ”

40000m³/h

4.2-4

		mg/m³	kg/h	t/a	t/a	mg/m³	kg/h	t/a
		0.075	0.003	0.011	0.000	0.077	0.003	0.011
		-	8.75E-05	3.15E-04	0.000	-	8.75E-05	3.15E-04
		-	-	0.011	0.000	-	-	0.011

3

“ +

”

DA001

40000

≤ 20

GB14554-93

4.2-5

4.2-5

		t/a	t/a	t/a
	VOCs	3.351	2.400	0.951
		0.011	0	0.011
	VOCs	3.351	2.400	0.951
		0.011	0	0.011

4.2.2

1h

0%

4.2-8

mg/m³

kg/h

/h

/

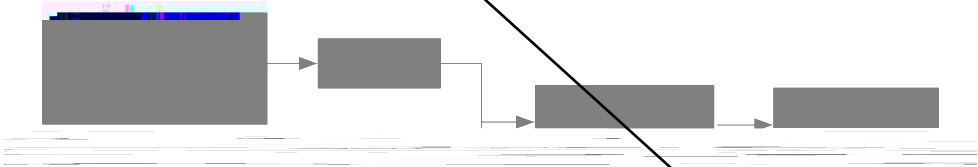
DA001

4.2-10

				(m ³ /h)			(m ³ /h)
DA001		8		1000	98%	8000	
	/	20		60	98%	1200	
	UV	9		400	98%	3600	
		26		300	98%	7800	
		15		1200	98%	18000	
			(m ²)	v m/s	β	(m ³ /h)	(m ³ /h)
		3	0.1	0.5	1.05	189	567.0
							39167
							40000

(2)

4.2-1



4.2-1

B.1

“VOCs”
H 31—2019
“+”

VOCs

DB33/2146-2018 1

GB16297-1996

-

BET

350m²/g

0.60m/s

80%

VOCs

200mg/Nm³

40000m³/h

3t

4.2-1

4.2.6

15m

10

$D=2AB/(A+B)$

D

A B

6

3

80

50

1.5m²

1.1m

10cm

4.3

4.3.1

4.3-1														
4.3-1														
/														/(h/a)
			(m³/a)	(mg/L)	(t/a)	(m³/d)			(%)		(m³/a)	(mg/L)	(t/a)	
	COD _{Cr}		10200	350	3.570	/	+		/		500	5.100	500	3600
				35	0.357				/		35	0.357	35	
				50	0.510				10%		45	0.459	45	
4.3-2														
4.3-2														
DW001		120.625989	30.086812	0:00-24:00						GB8978-1996				
										DB33 887-2013				
										GB/T31962-2015				

400 200 50L/ .d
 150L/ .d 40t/d
 85% 34t/d(10200t/a)
 COD_{Cr} 350mg/L NH₃-N 35mg/L 50mg/L pH6-8
 1 1 500m³/h
 2.525m³/h 3600h/a
 9090m³/a

COD_{Cr}

4.3-3

4.3-3

			COD _{Cr}		NH ₃ -N		TN	
	t/d	t/a	mg/L	t/a	mg/L	t/a	mg/L	t/a
	34.00	10200	350	3.570	35	0.357	50	0.510
	34.00	10200	500	5.100	35	0.357	45	0.459
	34.00	10200	80	0.816	10	0.102	15	0.153

1

4.3.2

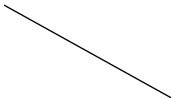
4.3.2

90 /

30 t/d

“ A/O ”

4.3-4



pH

ē

			4.4-1			()				
						/m	L _{p1}	TL		
		/dB(A)	X	Y	Z	/m	/dB(A)	/dB(A)	/dB(A)	(m)
1	2F	70	85.7	1.4	8.9	10	47.3	21	26.3	1
2	3F	70	84.7	6.7	14.1	10	46.2	21	25.2	1
3	2F	70	81.3	3.1	8.9	10	52.3	21	31.3	1
4	3F	75	81.5	6.7	14.1	10	51.2	21	30.2	1
5	2F	75	77.9	3.4	8.9	10	52.3	21	31.3	1
6	3F	75	77.5	8.0	14.1	10	51.2	21	30.2	1
7	AOI 2F	75	28.9	11.5	8.9	15	50.5	21	29.5	1
8	AOI 3F	75	29.1	15.0	14.1	15	51.1	21	30.1	1
9	2F	75	72.9	3.8	8.9	10	53.4	21	32.4	1
10	3F	75	79.5	3.6	14.1	10	52.6	21	31.6	1
11	2F	75	72.6	9.0	8.9	10	53.4	21	32.4	1
12	3F	75	79.1	8.6	14.1	10	52.6	21	31.6	1
13	2F	75	99.8	2.0	8.9	5	57.2	21		

19		75	21.0	29.9	20.0	7	58.6	21	37.6	1
20		75	99.9	-0.9	14.5	6	55.6	21	34.6	1
21	2F	75	20.5	12.3	8.9	15	50.5	21		

4.4.2

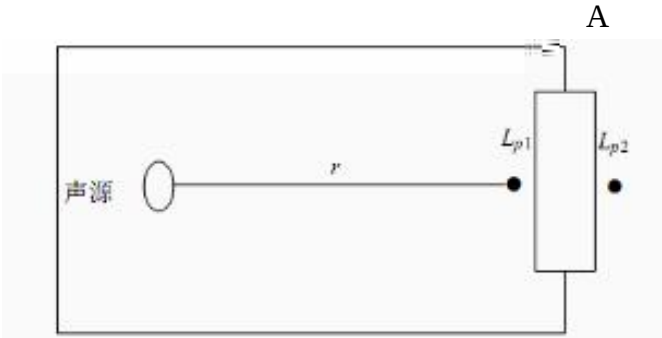
(HJ2.4-2021)

HJ2.4-2021 A()

B() “B.1 ”

()

A Lp1 Lp2



$L_{P2}=L_{P1}-(TL+6)$

$L_{P1}=L_w-10\lg(\frac{Q}{4\pi r^2}-\frac{4}{R})$

$R=S\alpha/(1-\alpha)$

Lp2 () A dB

Lp1 () A dB

TL () A dB

Lw (A) dB

Q Q=1

Q=2 Q=4

Q=8

r m

R

S m²

$$\alpha$$

$$L_p(r)=L_p(r_0)-20\lg(r/r_0)$$

$$\begin{array}{llll} L_p(r) & & & \text{dB} \\ L_p(r_0) & r_0 & & \text{dB} \\ r & & & \\ r_0 & & & \end{array}$$

$$\begin{array}{llll} & i & A & L_{Ai} \quad T \\ t_i & j & A & L_{Aj} \quad T \\ & t_j & & (L_{eqg}) \\ L_{eqg} & 10\lg[\frac{1}{T} \sum_{i=1}^N t_i 10^{0.1L_{Ai}} \sum_{j=1}^M t_j 10^{0.1L_{Aj}}] \end{array}$$

4.4-3

4.5-1

						(t/a)			(t/a)
		900-008-S17	PCB		-	160			160
		900-099-S59			-	0.25			0.25
		900-003-S17			-	28.76			28.76
		HW49 900-045-49			T	4			4
		HW49 900-041-49			T/In	0.748			0.748
		HW49 900-039-49			T	14.4			14.4
		HW06 900-404-06			T/In	0.814			0.814
		HW49 900-041-49			T/In	0.2			0.2
	/UV	HW12 900-252-12	UV		T/In	0.774			0.774
		HW13 900-014-13			T	0.52			0.52
			-		-	60			60

				0.3t/a			
		VOC	10%			0.814t/a	
	8						
		1				0.2t/a	
	9						
		UV	70%			0.774t/a	
	10						
						80%	
		0.52t/a					
	9						
		400			0.5 kg/d		
	60t/a						
		1 30m ²		1 30m ²			
	1m	1t/m ³		50%		15t	
		21.356t/a		90			
					(	2017	
	43)						
				4.5-2			
		4.5-2					
				m ²			
	1						3
	2						3
	3						3
	4			30		15 t	3
	5						3
	6						3
	7						3
	4.5.2						

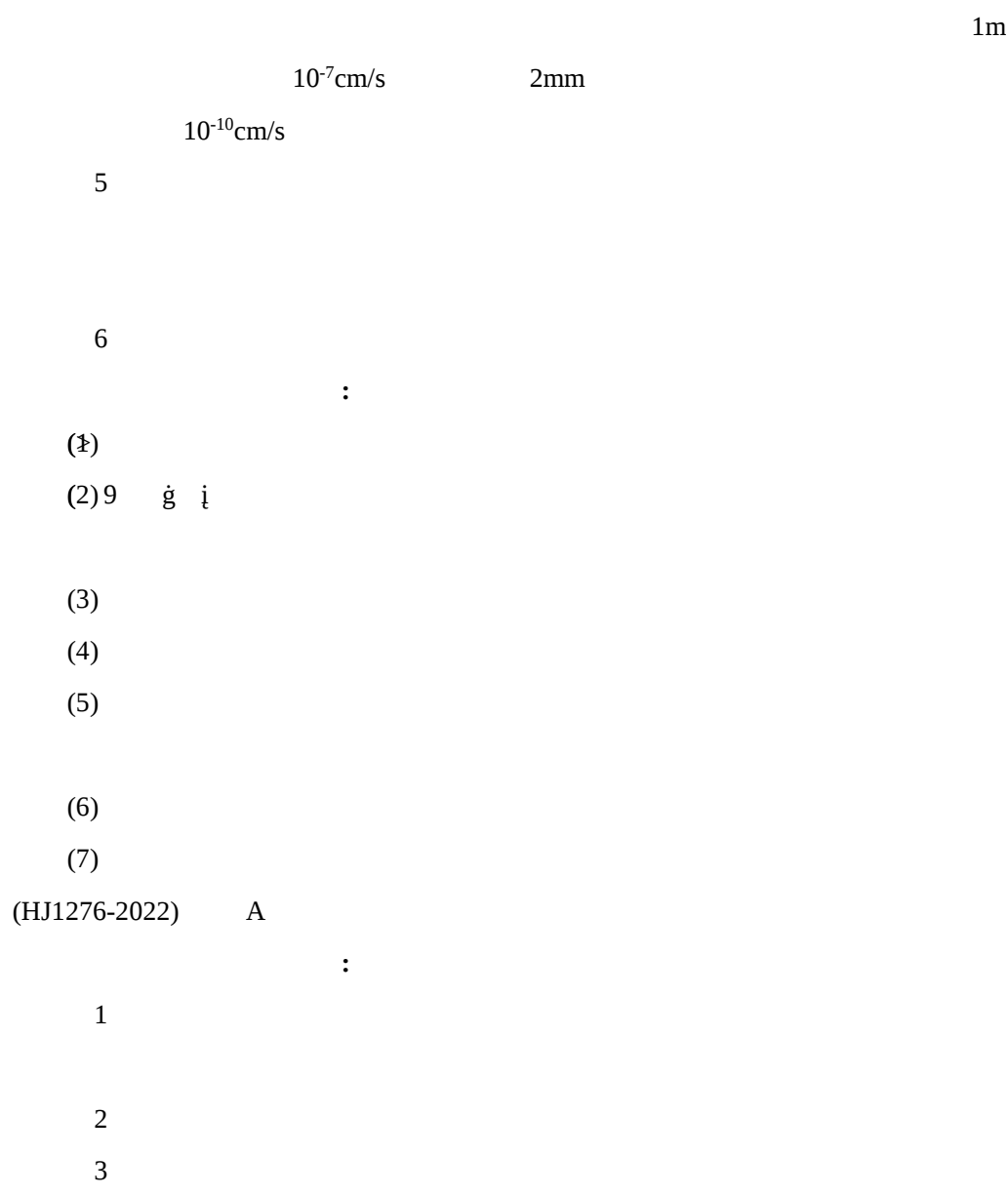
()

(GB18599-2020)

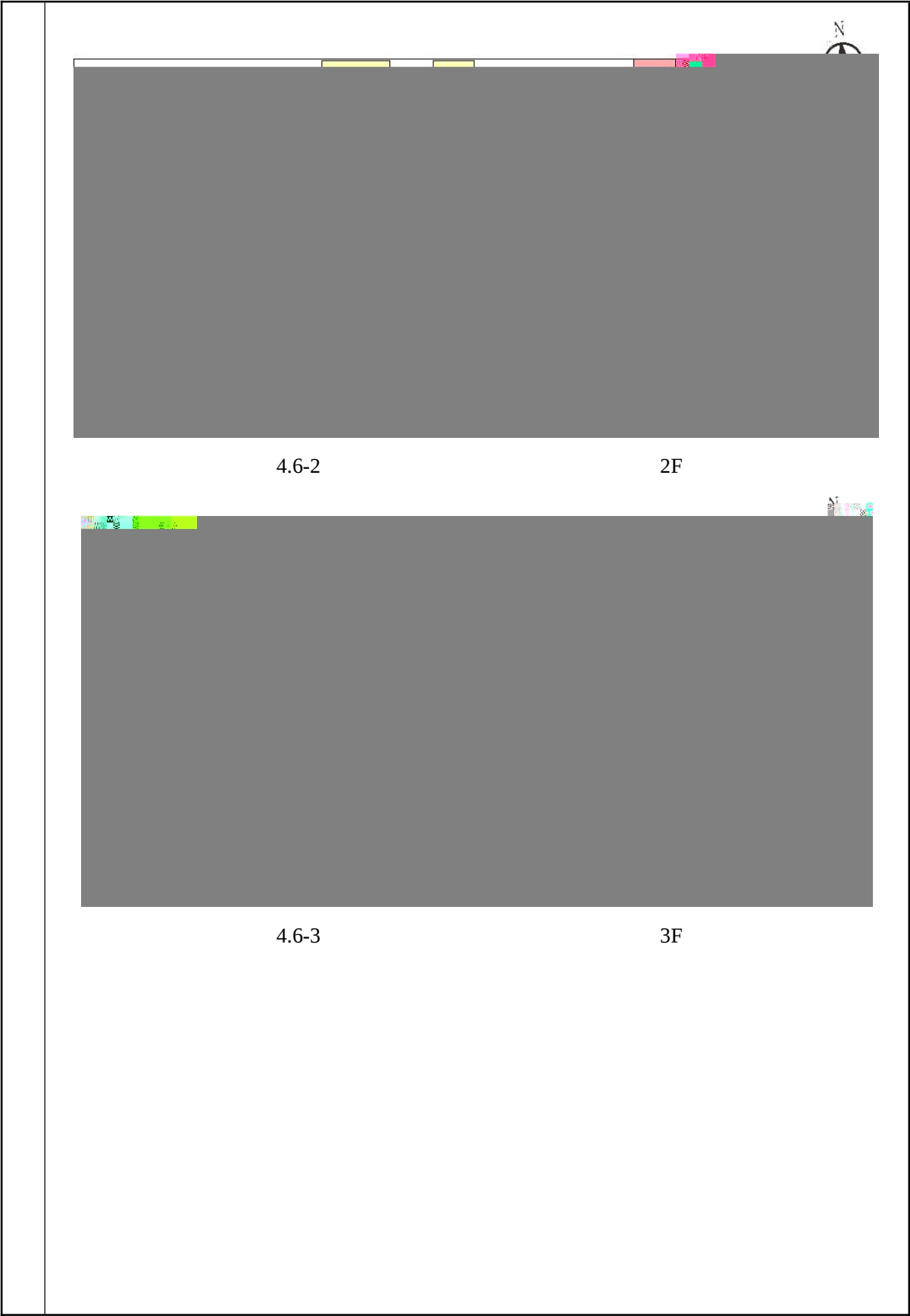
GB18597-2023

4.5-3

3



	(3) (4) (5) (6) (7)																			
	4.5.3 4.6 4.6.1 4.6-1 4.6-1 <table> <tr> <td></td><td>/</td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td>COD_{Cr}</td><td>/</td><td></td><td></td></tr> </table> 4.6.2 (GB50108-2008) “ ”							/									COD _{Cr}	/		
	/																			
			COD _{Cr}	/																



4.7.3

4.7.3.1

I II III IV/VI⁺

4.7-2

(E)	(P)			
	(P1)	(P2)	(P3)	(P4)
(E1)	IV ⁺	IV	III	III
(E2)	IV	III	III	II
(E3)	III	III	II	I
IV ⁺				

4.7.3.2

(P)

(1)

(Q)

Q

$$Q \quad \frac{q_1}{Q_1} \quad \frac{q_2}{Q_2} \quad \cdots \quad \frac{q_n}{Q_n}$$

$$q_1 \quad q_2 \cdots q_n \text{ ———}$$

t

$$Q_1 \quad Q_2 \cdots Q_n \text{ ———}$$

t

$$Q \quad 1$$

I

$$Q \geq 1 \quad Q \quad (1) 1 \leq Q \leq 10 \quad (2) 10 \leq Q \leq 100 \quad (3) Q \geq 100$$

Q

4.7-3

4.7-3

		(t)	(t)	Q	
1		15	50	0.160	
2		0.04	10	0.004	
3					
4		0.004	0.25	0.016	

	VOCs	1 /	(HJ1031-2019)
--	------	-----	---------------

4.9-2

(GB12348-2008)3 Leq(A) 6:00~23

	()/			
	DA001	VOCs	/ + “ ”	DB33/2146-2018 GB16297- 1996
	DW001	CODcr	+	(GB8978-1996) (DB33/887-2013) ([2017]57)
			1) 2) 3) 4) 5)	GB12348-2008
	/	/	/	/
		1 30m ²		
		1 30m ² “ ”		

	“	
	”	
	/	
1	(2019)(11)	
	5-1 (2019) ()	
	39	
	89	391 397 398 399
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