2501-330652-04-02-589547

2500

..... 1

..... 24

..... 42

..... 51

..... 85

..... 88

1

2

3

4

5

6

7

8

9

10

1 “ ”

2

3

4

5

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]	

	2013-2020 2021-2030 2030 1 “ ” 2020 34.0 30.0 4.0 2030 47.0 45.0 2.0 2020 75.0% 2030 95.7% 2 1 “ ”

	2 “ ” “ ” 66.2 “ ” 329 “ ” “ ” “ ” “ ” “ ” 2 1 “ ” 329 “ 0602- -0-4 ” 1.1-2

1.1-2

	329	0602--0-4			

2 “ ”

56

3 “ ”

4 “ ”

5 “ ” 1.1-3

1.1-3

329 “				3.5g/L	50

0602- -0-4”						
				DMF		
				VOCs >420g/L		

6 “ ”

3

56

[2024]36

ZH33060220001

1.1-4

1.1-4

		2024 2025	
		C3982 [2024]36 1	
		56 7	

	“ ”		
	“ ”		

“ ” 1.1-5

1.1-5 “ ”

	56	

	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 VOCs VOCs 2	1.1-4 VOCs 1 2	
	3			
	4	VOCs ( ) VOCs VOCs	GB/T 38597-2020 GB 33372-2020 GB38508-2020 2.2.4-2 VOCs	
	5	VOCs VOCs “ ”	“ ” ([2021]10) 1 C3982 VOCs	

	VOCs 2025 5000 VOCs (3) VOCs 70% VOCs 60%	VOCs 60%	
10	“ ” VOCs VOCs	“ ” VOCs VOCs	
11	VOCs ( )	VOCs	

6

1.1-7 -

1		UV	GB/T 38597-2020	
2				

VOCs

VOCs

UV

VOCs

3

HJ 944
VOCs

VOCs

		30 / 2025 60 / 100 / “ ” VOCs ”“ ” “ ” VOCs		
4		A “ ” 2023 3 B (LDAR) 3 VOCs VOCs VOCs		
5		2023 3		

		“ ”		
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		

3	( ) I	56 ZH33060220001
4		56
5		56
6	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	56

7		56
8		56
9		56
10		
11		
12		
13		56
14		
15	( )	
16	( )	“ ” (2501-330652-04-02-589547)
17		

18		56

10 “ ”

682 2017 07

16 “ ”

1.1-10 “ ”

		56 ZH33060220001	

		“ ”	

11 2023

2023

12 ([2024]11)

1.1-11 ( )

		2024 (SCR) 2025 6 2024 ,2027		
	VOCs	VOCs VOCs VOCs VOCs ,	GB/T 38597-2020 GB 33372-2020 GB38508-2020	

2.2.4-3

, VOCs

“ ”

,

“ ”

VOCs

VOCs

( ) “

VOC

s ”

VOCs

VOCs

2024

( )

(LDAR)

VOCs

2.1

2005 07 08 1 2010 5
200
([2010]92) 2010 9 13
2010 171
56 7
SMT
2500

(
2501-330652-04-02-589547)

(GB/T 4754-2017)
C3982 2021
2.1-1

2.1-1

39			
81	398		/

2021

39

398 “ ”

2.2

2.2.1

2.2.1-1

2.2.1-1

	2500	
		/
	56	/
		/
	4034.71 4034.71 2034.71 1000 1000	/
	SMT 200 / 2500 / / /UV	
	300 3600h/a 300h/a 500h/a 400 200	/
	7 16946.1 4 IQC ROHS	

		1 420m² 1 1617m² 1 108m²	
		38.5m² 22m² 36m²	
		/UV “ ” DA001	
		30 m² 1 30m² 1	

2.2.1-2

			m²
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*0.15m
	200	2500	+2300	

SMT

200 /

2500 /

/UV

2.2.2-2

	/	
	750 300 450	
	600	
/UV	580 200 UV380	UV
	810 5 500 300 5	

2.2.3

SMT

56 7

2010

2.2.3-1

2.2.3-2

2.2.3-1

2.2.3-2

2.2.4

2.2.4.1

2.2.4-1

	2.2.4-1 SMT A

	2.2.4.2 MSDS VOC VOCs VOC 10% 2.2.4-2 2.2.4-2

MSDS 2.2.4-3

2.2.4-3

0 32
° F 18255.6 mg/kg

/ LD_{50}
4g/kg LD_{50}
2.5g/kg

1.20 ± 10%g/cm^3
0-10

25 2.0 pH
7.5

LD50 1790mg/kg
3200mg/kg
LC50
LD50 5000mg/kg
3600mg/kg
6410mg/kg
12800mg/kg

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

				1580mg/kg
		1.65 ± 0.05g/cm^3		LD50 7460 uL/kg
		>200 >200 >400 1.75g/ml(40)	LD50>1200mg/kg	A (LD50) - - 13,600 mg/kg (LD50) - - - > 2,000 mg/kg
		pH 7.0 ± 0.5 25 0.98 460 78		LD50 5620 mg/kg( ) 4940 mg/kg( ) LC50 5760mg/m^3 8 ( ) LD50 5800 mg/kg( ) 20000 mg/kg( ) (LD50) - - - 2,800 mg/kg (LD50) - - - > 2,000 mg/kg
		25 1.4~1.5g/cm^3		
		0.9439 ± 0.02g/ml -61 152 ± 2 2.51 445 15.2% 2.2%		N,N- LD50 400mg/kg LC50 9400mg/m^3 4720mg/kg
		0.88 ± 0.05g/cm^3 70-90 ≥ 244 ≥ -20		LD50 13000mg/kg LD50 6400mg/kg LC50 45900mg/m³ 6# LD50 28710mg/kg LD50 7060mg/kg LD50 7430mg/kg LC50 37620mg/m³

2.2.5

2.2.5-1

2.2.5-2 VOC

2.2.6

9

2.3

/UV

2.3-1

2.3-1

1) /

2) /

/ PCB

3) PCB

4) PCBA

50--160 160-210 210-250

180-50 PCBA / -

5) AOI PCBA

PCBA

6) AI DIP PCB

	/UV	VOCs
		VOCs
		COD_{Cr}
	/UV	

2.5.1

2005 7

2.5.1-1

2.5.1-1

1	2010 5	200	200	[2010]92	2010 9 2010 171	/

91330600776608451E001W

COD_{Cr} 500mg/L

DB33/887-2013

35mg/L COD_{Cr} 0.733 / NH_3-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			t/a
	CODcr	NH_3-N	VOCs
1832.8	0.147	0.018	0.588

COD_{Cr}

0.4t/a

97.1% VOCs 0.388t/a

2.5.2

1

2.5.2-1 2024

2.5.2-1

		/)	2024.1.1-2024.12.31 /
1		200	198
		200	198

2

2.5.2-2

				2024	/
1			200	210	60P/Tray
2			170	175	10000P/
3			200	225	200P/
4			840	865	10000P/
5			420	450	10000P/
6			2.8	3.1	20kg/
7			0.4	0.38	16kg/
8			0.2	0.2	16kg/

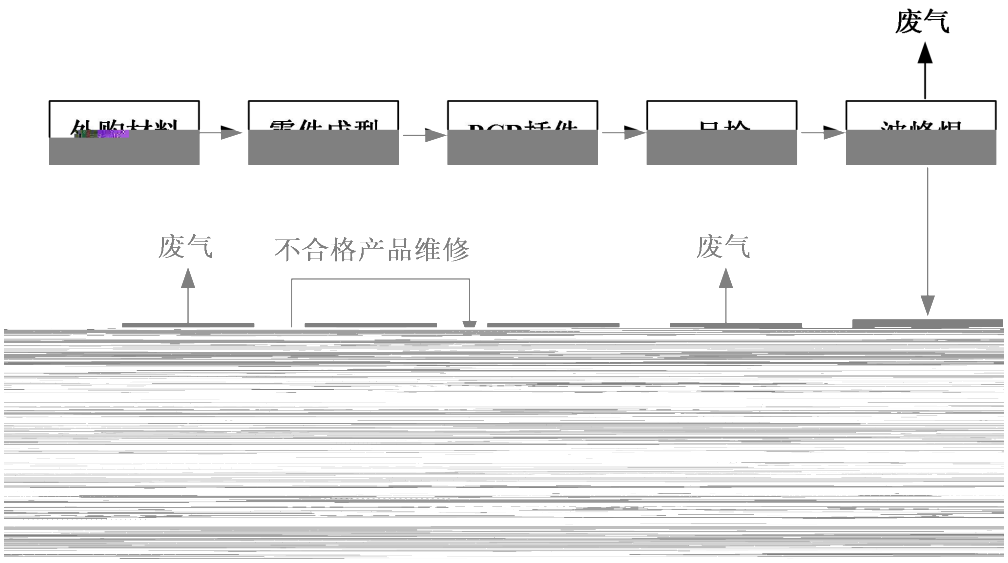
2.5.3

2.5.3-1

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 PCB

3 PCB

4

5 PCB PCB

6

7

8

2.5.5

2.5.5.1

1

350

50L/d 4375t/d

85% 3718.75t/a

2

(2024(HJ)080680 2024 8 22) 2.5.5-2

2.5.5-2 mg/L(pH)

2024 08 22

01RD10101 01RD10102 01RD10103

pH 7.1 33.9 7.2 34.5 7.1 34.3 6~9

152 143 138 500

(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)

2.5.5-4

	/				/	/
	m		20		/	/
	/	2024	12	23	/	/
	m^2		0.4		/	/
			21		/	/

L א p

		kg/h	8.27×10^{-4}	0.52	

(DB16297-1996) 2 8.27 × 10^{-4}kg/h 2000h 0.0017t/a 0.0028t/a

2.5.5.3

2.5.5-6

2.5.5-6

					2024 (t/a)	
1				900-002-S17	39.84	
2				900-003-S17	57	
4				900-099-S59	0.03	
4				/	14.4	

2.5.5.4

(2024(HJ)110554 2024 11 19-20)

2.5.5-7

2.5.5-7 Leq(A) dB

1#		64		49		65	55
2#		64		54		65	55
3#		56		55		65	55

GB12348-2008 3

2.5.5.5

2.5.5-8 2024

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
		(t/a)	39.84
		(t/a)	57
		(t/a)	14.4

1 VOCs 2024 0.38t/a 97.1% VOCs 0.369t/a 0.2t/a VOCs 0.569t/a

0.4t/a 97.1% VOCs 0.388t/a 0.2t/a VOCs 0.588t/a VOCs

2 < > ([2014]197)

2.5.6

2.5.6-1

2.5.6-1

	( )/			
			6 /h	

3.1.1

3.1.1.1

2023

3.1-1

3.1-1

		(μg/m^3)	(μg/m^3)	(%)	
SO_2		6	60	10.0	
	98	10	150	6.7	
NO_2		26	40	65.0	
	98	59	80	73.8	
PM_{10}		49	70	70.0	
	95	98	150	65.3	
$PM_{2.5}$		30	35	85.7	
	95	65	75	86.7	
CO	95	900	4000	22.5	
O_3	8 90	160	160	100.0	

2023

(GB3095-2012)

3.1.1.2

TSP (2024) 0426211

( )

“ 5 3 ”

(1)

3.1-2

3.1.3

.

	X	Y						/m
	270928.861	3330522.024		~1738				310
	271177.567	3330439.509		~600				320
	270756.128	3330326.908		~1284				560
	270922.195	3330300.844		~500				520

2

50

3

500

3.3

3.3.1

1

DA001

VOCs

DB33/2146-2018 1 3.3-2

GB16297- 1996 2

PCB

DB33/2146-2018

3.3-1 DA001 (mg/m^3)

1			1000		
2	(NMHC)		80		
3	TVOC		60		DB33/2146-2018

3.3-2 DA001 (mg/m^3)

	GB16297- 1996		
		mg/m^3	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/m^3

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

VOCs

GB37822-2019 3.3-4

3.3-4

	mg/m^3		
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
(CODcr)≤	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

			“ ”			/	
	t/a	1832.8	1832.8	10200	10200	10200	8367.2
COD(t/a)		0.916	0.916	5.100	5.100	5.100	4.184
		0.147	0.147	0.816	0.816	0.816	0.669
NH_3-N(t/a)		0.064	0.064	0.357	0.357	0.357	0.293
		0.018	0.018	0.102	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

0.4t/a

97.1% VOCs 0.388t/a

1

<

> ([2014]197)

2

3.4-1 0.008t/a <

“ ” > SO_2

NOx

2

1.5

1:2

VOCs 0.371t/a

2014 197 2025

VOCs

[2025]11 1:2 VOCs

3.4-1

1	VOCs	0.588	0.363	0.943	1 2	0.726
2		0.0028	0.008	0.011	1 2	0.016

7

1

2

3

	4
	4.2 **4.2.1** MSDS 0.05% 4.2-1

4.2-1

/																	
				(m^3/h)	(mg/m^3)	(kg/h)	(t/a)		(%)			(%)	(m^3/h)	(mg/m^3)	(kg/h)	(t/a)	(h)
	DA001	VOCs		40000	20.450	0.818	2.944		98%	+		75%	40000	5.100	0.204	0.736	3600
				/	/	0.017	0.060						/	/	0.017	0.060	
/UV	DA001	VOCs		40000	21.325	0.853	0.256		98%			75%	40000	5.250	5.325	0.213	300
				/	/	0.017	0.005						/	/	/	0.017	
	DA001			40000	0.073	2.92E-03	1.05E-02		98%			0%	40000	0.075	0.003	0.011	3600
				/	/	6.53E-05	2.35E-04						/	/	6.53E-05	2.35E-04	
	DA001			40000	2.24E-03	8.94E-05	3.22E-04		80%			0%	40000	0.002	8.94E-05	3.22E-04	3600
				/	/	2.22E-05	8.00E-05						/	/	2.22E-05	8.00E-05	
		VOCs		/	/	1.72E-01	8.60E-02	/	/	/	/	0	/	/	1.72E-01	8.60E-02	500

1 **DA001**

UV

1.1t 0.1t

4.2-2 SMT

	(t/a)	VOCs		VOCs (t/a)
	1.1		84.5%	0
			5%	0
		/	10%	0.11
			0.5%	0
	0.1		53%	0.001
			27%	
			20%	
	1.2	TVOC	/	0.111

VOCs MSDS

VOCs

2% 53% VOC 0.001t/a

3.2t

4.2-4

	(t/a)	VOCs		VOCs (t/a)
	3.6		49.75%	1.791
			2.68%	0.096
			10.75%	0.387
			10.00%	0.360
	3.6	VOCs	/	2.634

UV

0.5t 0.08t VOC

339g/L

UV 2t VOCs MSDS

95%

VOCs

2% UV VOC 0.038t/a

VOC

4.2-4

	(t/a)	VOCs		VOCs (t/a)
	0.1		60%	0
			10%	0.010
			15%	0
			14%	0
			1.0%	0
	(t/a)	VOC		VOCs (t/a)
	0.1	31g/kg		0.003
	0.2	18g/kg		0.004
	0.5	400g/kg		0.204
	0.9	/		0.311

“ + ”

98% 40000m^3/h 75%

VOC 10% 2.2.4-2 0.3t VOCs

0.027t/a 0.3t VOC 0.029/a

0.3t

4.2-3

	mg/m^3	kg/h	t/a

98%

80% “

+ ” 40000m^3/h

4.2-4

		mg/m^3	kg/h	t/a	t/a	mg/m^3	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/m^3	kg/h	/h	/	
DA001	VOCs	41.775	1.671	1	1	

4.2.3

4.2-9

			/m		/m	/m	/		
			X	Y					
DA001		VOCs	271103.46	3330794.45	15	1.0	20		-

4.2.4

4.2.4.1

(1)

/UV

0.3m/s 80% 15

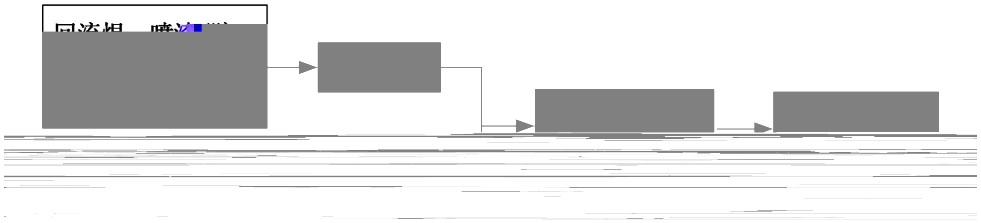
1 “ + ”

4.2-10

				(m³/h)		(m³/h)
DA001		8		1000	98%	8000
	/	20		60	98%	1200
	UV	9		400	98%	3600
		26		300	98%	7800
		15		1200	98%	18000
			(m²)	v m/s	β	(m³/h)	(m³/h)
		3	0.1	0.5	1.05	189	567.0
							39167
							40000

(2)

4.2-1



4.2-1

10%

(3)

HJ1031—2019 “

B.1 ”

VOCs

“ + ”

VOCs

DB33/2146-2018 1

GB16297-1996

-

BET 350m^2/g 0.60m/s

80% VOCs 200mg/Nm^3

40000m^3/h 3t

3 1

a

b

c

d

e

f

g

4.2.5

/UV

4.2-1

4.2.6

15m

10

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

6 3

80 50

1.5m^2 1.1m 10cm

4.3

4.3.1

4.3-1

4.3-1

/														/(h/a)
			(m^3/a)	(mg/L)	(t/a)	(m^3/d)			(%)		(m^3/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 2 50L/ .d

15 .d 40t/d

% 34t/d(10200t/a)

CODcr 350mg/L NH_3-N 35mg/L 50mg/L pH6-8

1 1 500m^3/h

2.525m^3/h 3600h/a

9090m^3/a

CODcr

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 ~ 150	0.459
	34.00	10200	80	0.816	10	0.102	15	0.153

1

4.3.2

4.3.2

~ 3.2

90 /

30 t/d “ A/O ”

4.3-4

		pH				
	L/S		mg/L	mg/L	mg/L	mg/L
2024/4/16	7251.35	6.12	63.69	0.2034	0.0359	8.184
2024/4/17	6817.32	6.24	69.62	0.1173	0.0386	6.196
2024/4/18	6912.21	6.19	68.41	0.1442	0.0391	8.768
2024/4/19	6849.67	6.16	67.11	0.1326	0.0414	9.834
2024/4/20	6535.07	6.18	71.87	0.1686	0.0455	9.755
2024/4/21	7209.63	6.18	68.98	0.1461	0.0493	11.49
2024/4/22	7302.13	6.13	68.43	0.1358	0.0498	11.739
2024/4/23	7397.85	6.17	69.76	0.1249	0.0676	11.066
2024/4/24	7299.27	6.24	69.42	0.1234	0.065	10.142
2024/4/25	7334.96	6.21	62.15	0.1426	0.0716	9.567
2024/4/26	6367.54	6.26	66.66	0.1597	0.0793	8.812
2024/4/27	6684.57	6.26	66.55	0.1791	0.0708	10.103
2024/4/28	6448.13	6.27	63.91	0.1944	0.0637	9.981
2024/4/29	6588.44	6.32	67.56	0.1855	0.0664	9.674
2024/4/30	6285.59	6.3	63.93	0.184	0.0616	11.524
	/	6~9	80	10	0.5	15
	/					

pH CODcr

4.4

4.4.1

4.4-1~4.4-2

4.4-1 ( )

		/dB(A)		/m			/m	L_{p1} /dB(A)		TL /dB(A)		
				X	Y	Z					/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	75		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	AOI 2F	75		72.9	3.8	8.9	10	53.4		21	32.4	1
10	AOI 3F	75		79.5	3.6	14.1	10	52.6		21	31.6	1
11	AOI 2F	75		72.6	9.0	8.9	10	53.4		21	32.4	1
12	AOI 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	36.2	1
14	3F	75		100.1	-6.3	14.1	5	56.8		21	35.8	1
15	2F	70		37.4	11.4	8.9	15	45.5		21	24.5	1
16	3F	70		37.9	15.5	14.1	15	46.1		21	25.1	1
17	1	85		99.7	-0.5	1.0	5	71.4		21	50.4	1
18	2	85		95.8	-6.6	1.0	5	71.4		21	50.4	1

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	29.5	1
22	3F	75	19.7	18.1	14.1	15	51.1	21		

4.4.2

(HJ2.4-2021)

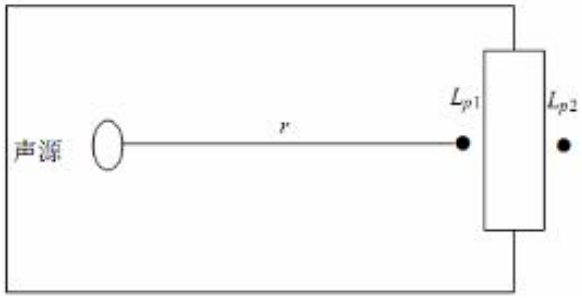
HJ2.4-2021 A( )

B( ) “B.1 ”

( )

A L_{p1} L_{p2}

A



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

L_{P1} L_W $10\lg(\frac{Q}{4\ r^2}\ \frac{4}{R})$

R=Sα/(1-α)

L_{P2} ( ) A dB

L_{P1} ( ) A dB

TL ( ) A dB

L_W (A) dB

Q Q=1

Q=2 Q=4

Q=8

r m

R

S m^2

α

Lp(r)=Lp(r_0)-20lg(r/r_0)

Lp(r) dB

Lp(r_0) r_0 dB

r

r_0

i A L_{Ai} T

t_i j A L_{Aj} T

t_j (L_{eqg})

$$L_{eqg} \quad 10\lg[\frac{1}{T}\sum_{i\ 1}^{N} t_i 10^{0.1L_{Ai}} \sum_{j\ 1}^{M} t_j 10^{0.1L_{Aj}}]$$

L_{eqg}- dB(A)

T- s

N-

t_i- T i s

M-

t_j- T j s

4.4.3

(1)

50m 1m

4.4-3

(2)

4.4-3

		dB(A)	dB(A)	
		51.2	65	
			55	
		47.9	65	
			55	
		32.3	65	
			55	
		37.4	65	
			55	

(GB12348-2008) 3

4.4.4

(1)

(2)

(3)

(4)

(5)

(6)

4.5

4.5.1

(2020.4.29)

(GB34330-2017) (2025)

(GB5085.7-2019) (

2024 4) 4.5-1

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

1

160t/a

2

1%

25t/a 0.25t/a

3

28.76t/a

4

0.1% 25000 / 4t/a

5

0.748t/a

6

1 VOCs 0~200mg/m3

40000m^3/h 3600h/a -

A

3t 4 /

VOCs 2.337t/a 14.4t/a

7

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

4.5-3

(1) (2) (3) ( ) ([2023]28)
(1) (2) (3) 1   2 3 4

1m

10^{-7}cm/s 2mm

10^{-10}cm/s

5

6

:

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(HJ1276-2022) A

:

1

2

3

4

5 VOCs

6

(1)

(2)

(3)

(4)

(5)

(6)

(7)

4.5.3

4.6

4.6.1

4.6-1

4.6-1

	/					
			COD_{Cr}	/		

4.6.2

(GB50108-2008)

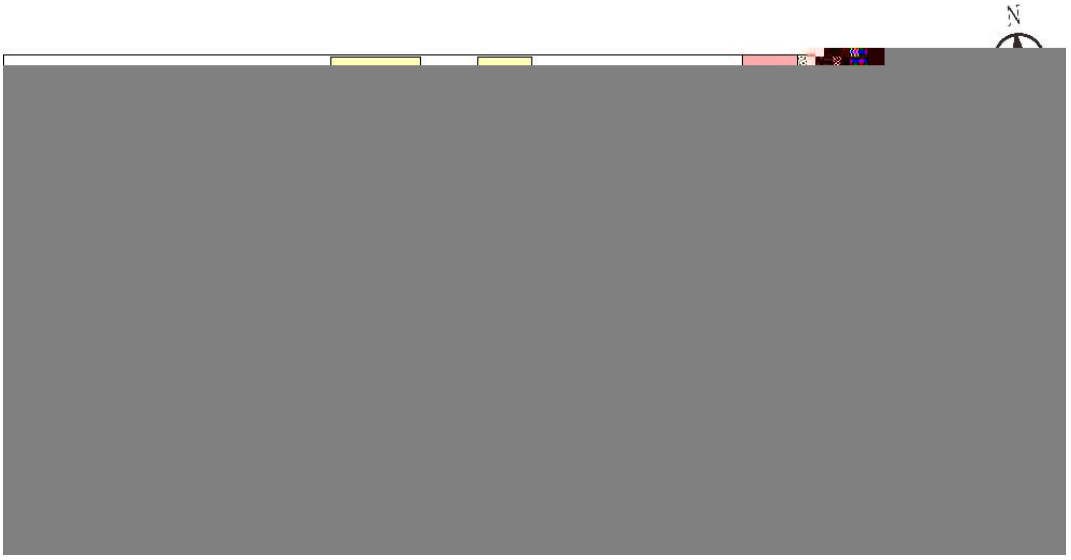
“ ”

1

4.6-2

		Mb≥1.5m ≤10^{-7}cm/s	+
		Mb≥6m ≤10^{-7}cm/s	2 ≤10^{-10}cm/s

4.6-1 1F



4.6-2 2F

4.6-3 3F

4.6-3 4F

2

4.6-2

4.7

4.7.1

1

4.7-1

4.7-1

1		
2		

2

HJ169-2018 C.1.2

4.7.2

56 7

3.5

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

$$Q \quad \frac{q1}{Q1} \quad \frac{q2}{Q2} \quad \cdots \quad \frac{qn}{Qn}$$

q1 q2…qn—— t

Q1 Q2…Qn—— t

Q 1 I

Q≥1 Q (1)1≤Q 10 (2)10≤Q 100 (3)Q≥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	

5			0.0004	0.25	0.0016	
6		N,N-	0.03	5	0.006	
Q ∑					0.187	

Q 0.187<1 I

4.7.4

4.7-4

4.7-4

	IV IV+	III	II	**I**
				a
a A				

4.7.5

4.7.5.1

4.7.5

4.7.5

			%(V/V)		
	≥ 30	≥ 145	1.3~13.1		LD50 15000mg/kg LD50 3160mg/kg LD50 5000mg/kg LD50 8532mg/kg 10000mg/kg

4.7.6

4.7.6.1

4.7.8

4.8

4.8-1

4.8-1

		( )
		10
	“ + ” 1	50
		20
		10
		90

90 4034.71

2.2%

4.9

(2019)

(HJ 819-2017)

(HJ1031-2019)

4.9-1

DA001	VOCs	1 /	(HJ1031-2019)

	VOCs	1 /	(HJ1031-2019)

4.9-2

		(GB12348-2008)3	Leq(A)	6:00~22:00 22:00~6:00	/ 1	

	( )/			
	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 10 * (736) 2 “ ” “ ” “ ”	

	3 “ ” ( ) ( ) ( ) 5 20 4 5

2500

56 7

“

”

	(t/a)	0.588	0.588		0.951	0.588	0.951	+0.363
	(t/a)	0.003	0.003		0.011	0.003	0.011	+0.008
	(t/a)	0.183	0.183		1.02	0.183	1.02	+0.837
	COD_{Cr}(t/a)	0.147	0.147		0.816	0.147	0.816	+0.669
	(t/a)	0.018	0.018		0.102	0.018	0.102	+0.084
	(t/a)	0.027	0.027		0.153	0.027	0.153	+0.126
	(t/a)	4.2			160	4.2	160	+155.8
	(t/a)				0.25		0.25	+0.25
	(t/a)	8.3			28.76	8.3	28.76	+20.46
	(t/a)				0.748		0.748	+0.748
	(t/a)				14.4		14.4	+14.4
	(t/a)				0.814		0.814	+0.814
	(t/a)				4		4	+4
	(t/a)				0.2		0.2	+0.2
	(t/a)				0.774		0.774	+0.774
	(t/a)				0.52		0.52	+0.52
	(t/a)	14.4			60	14.4	60	+45.6

= + + - = -