Table 4-2 Summary of the results in the Environmental Survey and Monitoring of Chemicals (FY 1974 – FY 2024)

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
	ABS	See Alkylbenzene sulfonetes (Branched alkylbenzene sulfonetes)																						
	Acenaphthene	See Polycyclic aromatic hydrocarbons																						
	Acenaphthylene	See Polycyclic aromatic hydrocarbons																						
1	Acephate	30560-19-1	1993	0/30	0/10	—	(0.2)	0/30	0/10	—	(0.02)	Fish 0/30	Fish 0/10	Fish —	(Fish 0.01)									1
2	Acetaldehyde	75-07-0	1977	0/6	0/2	—	(10)	3/6	1/2	2～4	(2.5)													2
			1987	0/75	0/25	—	(1)									43/57	11/12	930～22,000	(800)					
			1995	0/33	0/11	—	(1)									46/47	16/16	1,800～45,000	(500)					
3	Acetone	67-64-1	1995													49/49	17/17	150～31,000	(2)					3
4	Acetonitrile	75-05-8	1977	0/9	0/3	—	(120～200)	0/9	0/3	—	(2～24)													4
			1987	0/72	0/24	—	(3)	11/60	5/20	0.021～0.54	(0.021)					44/70	10/12	210～42,000	(200)					
			1991													33/51	15/17	200～3,700	(200)					
			1992	15/147	9/49	1.1～7.4	(1)	25/155	13/52	0.03～1.9	(0.03)													
			2001													17/17	7/7	93～1,200	(76)					
5	*o*-Acetoxybenzoic acid	50-78-2	2018	0/21	0/21	—	(0.019)																	5
6	6-Acetyl-1,1,2,4,4,7-hexamethyltetralin	21145-77-7	2014	14/16	14/16	0.0021～0.23	(0.00085)																	6
7	Acrolein	107-02-8	1978	0/21	0/7	—	(7～10)	0/15	0/5	—	(0.02～0.1)													7
			1987	0/75	0/25	—	(1.9)									0/61	0/10	—	(800)					
			2005																	Food 146/150 Indoor air (House) 77/78 Indoor air (Car) 12/12		0.26～200ng/g-wet 71～6,000ng/m^3 170～1,000ng/m^3	(Food 0.090) (Indoor air 0.73)	
			2008													63/63	21/21	20～500	(0.50)					
	Acrylaldehyde	See Acrolein																						
8	Acrylamide	79-06-1	1975	0/95	0/19	—	(1,000)																	8
			1991	11/153	5/51	0.05～0.1	(0.05)	20/150	7/50	0.00052～0.003	(0.0005)	Fish 0/147	Fish 0/49	Fish —	(Fish 0.0013)									
			1998	0/33	0/11	—	(0.15)	0/30	0/10	—	(0.009)													
			2007	13/48	13/48	0.0032～0.049	(0.0023)	87/175	40/64	0.000085～0.0019	(0.000079)	Bivalves 31/31 Fish 75/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00005～0.0014 Fish 0.000024～0.0019 Birds 0.00024～0.00068	(Bivalves 0.000022) (Fish 0.000022) (Birds 0.000022)									
			2011													0/27	0/9	—	(6.9)					
9	Acrylic acid	79-10-7	2007	8/30	3/10	0.10～2.9	(0.10)									10/12	4/4	20～180	(16)					9
			2014	17/17	17/17	0.1～3.2	(0.03)																	
			2024	43/43	43/43	0.086～1.4	(0.061)									10/10	5/5	8.2～39	(3.8)					
10	Acrylonitrile	107-13-1	1977	0/9	0/3	—	(20～50)	0/9	0/3	—	(0.4～0.5)													10
			1987	0/75	0/25	—	(2)	4/66	2/22	0.014～0.114	(0.007)					16/65	7/12	42～2,400	(40)					
			1991													15/40	7/14	46～390	(40)					
			1992	0/162	0/54	—	(2.2)	8/151	7/51	0.007～0.016	(0.007)	Fish 0/144	Fish 0/48	Fish —	(Fish 0.01)									
			2012	8/23	8/23	0.03～1.9	(0.03)																	
11	Adipic acid	124-04-9	1985	0/27	0/9	—	(2)	6/27	2/9	0.07～0.41	(0.03)													11
			2006	0/18	0/6	—	(3.8)	9/15	5/5	0.008～0.19	(0.006)													
			2007													0/15	0/5	—	(90)					
12	Adiponitrile	111-69-3	1978	0/21	0/7	—	(10)	0/21	0/7	—	(0.1～0.3)													12
	Alachlor	See 2-Chloro-2',6'-diethyl-*N*-methoxymethylacetanilide																						
	Albendazole	See 5-(Propylthio)-1*H*-benzimidazol-2-yl carbamic acid methyl ester																						
	Albendazole-2-amino sulfone	See 5-(Propylsulfonyl)-1*H*-benzimidazol-2-yl amine																						
	Albendazole sulfone	See 5-(Propylsulfonyl)-1*H*-benzimidazol-2-yl carbamic acid methyl ester																						
	Albendazole sulfoxide	See 5-(Propylsulfinyl)-1*H*-benzimidazol-2-yl carbamic acid methyl ester																						
13	Aldicarb	116-06-3	2006	0/30	0/10	—	(0.003)	0/18	0/6	—	(0.00017)	Bivalves & Fish 0/30	Bivalves & Fish 0/10	Bivalves & Fish —	(Bivalves & Fish 0.0000016)									13
	Aldrin	See 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene																						
14	[(3-Alkaneamidopropyl)(dimethyl) ammonio] acetate (The alkaneamido group is linear with 10 - 14 carbon atoms.)																							14
14-1	[(3-Decanamidopropyl)(dimethyl) ammonio]acetate	73772-45-9	2020	16/31	16/31	0.00043～0.012	(0.00035)	0/93	0/31	—	(0.00024)													14-1
14-2	[(3-Dodecanamidopropyl)(dimethyl) ammonio]acetate	4292-10-8	2020	24/31	24/31	0.0027～0.14	(0.0026)	0/93	0/31	—	(0.0050)													14-2
14-3	[(3-Tetradecanamidopropyl)(dimethyl) ammonio]acetate	59272-84-3	2020	18/31	18/31	0.0030～0.026	(0.0028)	1/93	1/31	0.0011	(0.00094)													14-3
14-4	[(3-Hexadecanamidopropyl)(dimethyl) ammonio]acetate	32954-43-1	2020	18/31	18/31	0.00077～0.0093	(0.00076)	6/93	6/31	0.00019～0.00039	(0.00019)													14-4
14-5	[(3-Octadecanamidopropyl)(dimethyl) ammonio]acetate	6179-44-8	2020	27/31	27/31	0.00024～0.0092	(0.00024)	14/93	9/31	0.00010～0.00028	(0.000095)													14-5
15	Alkanols (The alkyl group is linear with 10 - 16 carbon atoms.)																							15
15-1	1-Decanol	112-30-1	1979	0/27	0/9	—	(5～50)	0/27	0/9	—	(0.3～1)													15-1
			2017	2/26	2/26	0.01～0.013	(0.0062)	50/71	17/24	0.0019～0.52	(0.0011)													
			2022	1/42	1/42	0.010	(0.0063)																	
			2024					68/76	25/26	0.0011～0.36	(0.0011)													
15-2	1-Undecanol	112-42-5	2022	0/43	0/43	—	(0.0043)																	15-2
			2024					8/75	3/26	0.0016～0.0062	(0.0014)													
15-3	1-Dodecanol	112-53-8	2022	24/43	24/43	0.0052～0.48	(0.0048)																	15-3
			2024					68/79	25/27	0.0008～0.051	(0.00072)													
15-4	1-Tridecanol	112-70-9	1977	0/6	0/2	—	(300)	0/6	0/2	—	(6)													15-4
			2022	2/43	2/43	0.0075～0.016	(0.0040)																	
			2024					34/79	13/27	0.0011～0.12	(0.0011)													

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
15-5	1-Tetradecanol	112-72-1	2022	30/43	30/43	0.0043～0.022	(0.0014)																	15-5
			2024					71/79	26/27	0.00085～0.39	(0.00076)													
15-6	1-Pentadecanol	629-76-5	2022	2/43	2/43	0.0056～0.030	(0.0031)																	15-6
			2024					66/79	24/27	0.0011～0.4	(0.00091)													
15-7	1-Hexadecanol	36653-82-4	2022	26/43	26/43	0.0038～1.1	(0.0030)																	15-7
			2024					77/79	27/27	0.0021～1.2	(0.00081)													
16	Alkylbenzene sulfonetes																							16
16-1	Linear alkylbenzene sulfonetes (C_{10} - C_{14})		1977	9/51	3/23	280～2,900	(10)	21/51	11/23	1.0～260	(1)													16-1
			(2003)	12/27	5/9	0.2～67	(1.0*)																	
			(2005)					10/12	4/4	0.0020～1.1	(0.0095*)									Food 150/150		2.2～1,600ng/g-wet	(0.22*)	
			(2018)					23/75	10/25	0.12～8.5	(0.12*)													
16-1-1	Linear decylbenzene sulphonates	1322-98-1	2003	9/27	3/9	0.32～28	(0.2)																	16-1-1
			2005					3/12	2/4	0.0024～0.097	(0.0019)									Food 150/150		0.47～92ng/g-wet	(0.031)	
			2018					20/75	9/25	0.009～0.062	(0.0089)													
16-1-2	Linear undecylbenzene sulphonate	27636-75-5	2003	10/27	4/9	0.32～17	(0.2)																	16-1-2
			2005					7/12	4/4	0.0020～0.35	(0.0020)									Food 150/150		0.39～340ng/g-wet	(0.047)	
			2018					20/75	8/25	0.038～10	(0.038)													
16-1-3	Linear dodecylbenzene sulphonate	25155-30-0	2003	11/27	4/9	0.2～16	(0.2)																	16-1-3
			2005					9/12	4/4	0.0020～0.40	(0.0018)									Food 150/150		0.41～620ng/g-wet	(0.066)	
			2018					24/75	11/25	0.041～2.6	(0.040)													
16-1-4	Linear tridecylbenzene sulphonate	26248-24-8	2003	10/27	4/9	0.25～6.1	(0.2)																	16-1-4
			2005					10/12	4/4	0.0019～0.21	(0.0019)									Food 148/150		1.1～670ng/g-wet	(0.065)	
			2018					30/75	13/25	0.033～4.7	(0.032)													
16-1-5	Linear tetradecylbenze nesulphonate	28348-61-0	2003	0/27	0/9	－	(0.2)																	16-1-5
			2005					0/12	0/4	－	(0.0019)									Food 137/150		0.017～11ng/g-wet	(0.014)	
			2018					40/75	16/25	0.0022～0.62	(0.0020)													
16-2	Branched alkylbenzene sulfonetes	Unknown	1977	0/51	0/23	－	(10)	0/51	0/23	－	(1)													16-2
17	Alkyl(benzyl)(dimethyl)ammonium salts (The alkyl group has 12, 14 or 16 carbon atoms.) (as chloride)	139-07-1, 139-08-2, 122-18-9 etc.	1982	0/24	0/8	－	(3)	9/24	3/8	0.8～10.5	(0.1)													17
			1983	0/126	0/42	－	(1～3)	30/126	11/42	0.1～5.2	(0.1～0.6)	Fish 0/123	Fish 0/38	Fish －	(Fish 0.1～1)									
			(2022)	43/43	43/43	0.0025～0.31	(0.0016*)																	
17-1	Dodecyl(benzyl)(dimethyl)ammonium salts (as chloride)	139-07-1 etc.	2022	43/43	43/43	0.0017～0.18	(0.00072)																	17-1
17-2	Tetradecyl(benzyl)(dimethyl)ammonium salts (as chloride)	139-08-2 etc.	2022	43/43	43/43	0.00080～0.084	(0.00047)																	17-2
17-3	Hexadecyl(benzyl)(dimethyl)ammonium salts (as chloride)	122-18-9 etc.	2022	38/43	38/43	0.00049～0.041	(0.00041)																	17-3
18	Allyl alcohol	107-18-6	1995													3/15	1/5	50～60	(50)					18
			2011													11/33	6/11	17～86	(16)					
			2024													5/51	3/17	21～37	(16)					
19	Allylamine	107-11-9	1981	0/27	0/9	－	(0.7～4)	0/27	0/9	－	(0.007～0.01)													19
	Allyl chloride	See 3-Chloropropene																						
20	4-Allyl-1,2-dimethoxybenzene	93-15-2	2006	0/15	0/5	－	(0.002)																	20
			2015													6/48	3/16	8.9～14	(8.6)					
21	3-Allyloxy-1,2-benzoisothiazole 1,1-dioxide (synonym: Probenazole)	27605-76-1	1992	0/75	0/25	－	(0.11)	0/75	0/25	－	(0.011)	Fish 0/72	Fish 0/24	Fish －	(Fish 0.023)									21
22	Alkyl sulfates																							22
22-1	Octyl sulfate and its salts	142-31-4 etc.	2024	0/35	0/35	－	(0.071)																	22-1
22-2	Nonyl sulfate and its salts	1072-15-7 etc.	2024	1/35	1/35	0.2	(0.04)																	22-2
22-3	Decyl sulfate and its salts	142-87-0 etc.	2024	2/35	2/35	0.082～5	(0.069)																	22-3
22-4	Dodecyl sulfate and its salts	151-21-3 etc.	2024	21/35	21/35	0.087～2.8	(0.081)																	22-4
22-5	Tetradecyl sulfate and its salts	1191-50-0 etc.	2024	19/35	19/35	0.036～1.1	(0.035)																	22-5
22-6	Hexadecyl sulfate and its salts	120-01-0 etc.	2024	22/35	22/35	0.049～2.9	(0.048)																	22-6
22-7	Octadecyl sulfate and its salts	1120-04-3	2024	12/35	12/35	0.04～1.6	(0.025)																	22-7
23	1-Allyloxy-2,3-epoxypropane	106-92-3	2004	0/21	0/7	－	(0.23)																	23
			2024													8/45	5/15	7.7～94	(2.3)					
24	1-Amino-9,10-anthraquinone	82-45-1	1985	0/27	0/9	－	(0.2)	1/21	1/7	0.022	(0.02)													24
			2016	0/15	0/15	－	(0.0028)	1/45	1/15	0.0071	(0.84)													
	1-Aminoanthraquinone	See 1-Amino-9,10-anthraquinone																						
25	2-Aminoanthraquinone	117-79-3	1985	0/27	0/9	－	(0.6)	0/18	0/6	－	(0.04)													25
26	3-Aminobenzenesulphonic acid	121-47-1	1981	0/6	0/2	－	(60)	0/6	0/2	－	(0.5)													26
	o -Aminobiphenyl	See Biphenyl-2-ylamine																						
27	4-Amino-6-*tert* -butyl-3-methylthio-1,2,4-triazin-5(4*H*)-one (synonym: Metribuzin) and that decomposed compounds																							27
27-1	4-Amino-6-*tert* -butyl-3-(methylsulfanyl)-1,2,4-triazin-5(4*H*)-one (synonym: Metribuzin)	21087-64-9	2008	Summer 17/180 Autumn 0/99	Summer 7/20 Autumn 0/33	Summer 0.0015～0.0044 Autumn －	(Summer 0.0014) (Autumn 0.0013)	Summer 0/60 Autumn 0/78	Summer 0/20 Autumn 0/26	Summer － Autumn －	(Summer 0.000046) (Autumn 0.0000055)					0/60	0/20	－	(1.5)					27-1
27-2	4-Amino-6-*tert* -butyl-2*H* -1,2,4-triazine-3,5-dione (synonym: Metribuzin-diketo)	56507-37-0	2008	Summer 0/180 Autumn 0/3	Summer 0/20 Autumn 0/1	Summer － Autumn －	(Summer 0.0018) (Autumn 0.0065)	Summer 0/60 Autumn 0/78	Summer 0/20 Autumn 0/26	Summer － Autumn －	(Summer 0.00015) (Autumn 0.00022)													27-2
27-3	6-*tert* -Butyl-3-methylthio-1,2,4-triazin-5(4*H*)- one (synonym: Metribuzin-desamino)	35045-02-4	2008	Summer 30/180 Autumn 0/3	Summer 5/20 Autumn 0/1	Summer 0.00047～0.0014 Autumn －	(Summer 0.00046) (Autumn 0.00014)	Summer 0/60 Autumn 0/78	Summer 0/20 Autumn 0/26	Summer － Autumn －	(Summer 0.000018) (Autumn 0.000033)													27-3

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
27-4	6-*tert*-Butyl-1,2,4-triazine-3,5(2*H*,4*H*)-dione (synonym: Metribuzin-desamino-diketo)	52236-30-3	2008	Summer 4/180 Autumn 0/3	Summer 1/20 Autumn 0/1	Summer 0.0028～0.0032 Autumn —	(Summer 0.0028) (Autumn 0.0053)	Summer 0/60 Autumn 0/78	Summer 0/20 Autumn 0/26	Summer — Autumn —	(Summer 0.00011) (Autumn 0.00019)													27-4
	2-Amino-5-chloro-4-methylbenzene sulfonic acid	See 5-Amino-2-chlorotoluene-4-sulphonic acid																						
28	5-Amino-2-chlorotoluene-4-sulphonic acid	88-53-9	1980	0/24	0/8	—	(10～200)	0/24	0/8	—	(0.5～11)													28
29	2-Aminoethanol	141-43-5	1980	0/27	0/9	—	(3～270)	0/27	0/9	—	(0.006～1.4)													29
			1994	24/156	12/52	0.55～2.3	(0.5)	84/147	32/50	0.010～0.92	(0.01)					9/51	5/17	13～160	(12)					
			2014	19/21	19/21	0.07～19	(0.06)									34/45	13/15	0.42～8.3	(0.42)					
30	*N*-(2-Aminoethyl)-1,2-ethanediamine (synonym: Diethylenetriamine)	111-40-0	2003	0/39	0/13	—	(2)																	30
31	2-Amino-4-(hydroxy(methyl) phosphonoyl)butanoic acid (synonym: Glufosinate)	51276-47-2	2006	0/60	0/10	—	(0.67)																	31
32	4-Amino-5-hydroxynaphthalene-2,7-disulphonic acid	90-20-0	1980	0/24	0/8	—	(4)	0/24	0/8	—	(0.04～0.1)													32
33	7-Amino-4-hydroxynaphthalene-2-sulphonic acid	87-02-5	1980	0/24	0/8	—	(4)	0/24	0/8	—	(0.04～0.1)													33
34	3'-Amino-4'-methoxyacetanilide	6375-47-9	2006	0/21	0/7	—	(0.002)																	34
	1-Amino-2-methoxy-5-methylbenzene	See 2-Methoxy-5-methylaniline																						
35	1-Amino-2-methylanthraquinone	82-28-0	1986	0/30	0/10	—	(0.2)	0/30	0/10	—	(0.2)													35
36	2-Amino-5-methylbenzenesulfonic acid	88-44-8	1980	0/24	0/8	—	(10～200)	0/24	0/8	—	(0.5～11)													36
	1-Aminonaphthalene-4-sulphonic acid	See 4-Aminonaphthalene-1-sulphonic acid																						
37	2-Amino-1-naphthalene sulphonic acid	81-16-3	1985	0/30	0/10	—	(0.5)	0/30	0/10	—	(0.007)													37
	2-Aminonaphthalene-1-sulphonic acid	See 2-Amino-1-naphthalene sulphonic acid																						
	2-Aminonaphthalene-5-sulphonic acid	See 6-Aminonaphthalene-1-sulphonic acid																						
	2-Aminonaphthalene-6-sulphonic acid	See 6-Aminonaphthalene-2-sulphonic acid																						
	2-Aminonaphthalene-7-sulphonic acid	See 7-Aminonaphthalene-2-sulphonic acid																						
	2-Aminonaphthalene-8-sulphonic acid	See 7-Aminonaphthalene-1-sulphonic acid																						
38	4-Aminonaphthalene-6-sulphonic acid	84-86-6	1985	0/33	0/11	—	(0.5)	0/33	0/11	—	(0.007)													38
39	6-Aminonaphthalene-1-sulphonic acid	81-05-0	1985	0/33	0/11	—	(0.5)	0/33	0/11	—	(0.007)													39
40	6-Aminonaphthalene-2-sulphonic acid	93-00-5	1985	0/33	0/11	—	(0.5)	0/33	0/11	—	(0.007)													40
41	7-Aminonaphthalene-1-sulphonic acid	86-60-2	1985	0/33	0/11	—	(0.5)	0/33	0/11	—	(0.007)													41
42	7-Aminonaphthalene-2-sulphonic acid	494-44-0	1985	0/33	0/11	—	(0.5)	0/33	0/11	—	(0.007)													42
	1-Amino-8-naphthol-3,6-disulphonic acid	See 4-Amino-5-hydroxynaphthalene-2,7-disulphonic acid																						
	2-Amino-5-naphthol-7-sulphonic acid	See 7-Amino-4-hydroxynaphthalene-2-sulphonic acid																						
	1-Amino-8-naphthol-3,6-disulphonic acid	See 4-Amino-5-hydroxynaphthalene-2,7-disulphonic acid																						
	2-Amino-5-naphthol-7-sulphonic acid	See 7-Amino-4-hydroxynaphthalene-2-sulphonic acid																						
	2-Aminophenol	See *o*-Aminophenol																						
	3-Aminophenol	See *m*-Aminophenol																						
	4-Aminophenol	See *p*-Aminophenol																						
43	*o*-Aminophenol	95-55-6	1986	0/27	0/9	—	(0.1)	0/27	0/9	—	(0.02)													43
			2009	24/33	8/11	0.0050～0.022	(0.0023)																	
			2019	24/25	24/25	0.0023～0.077	(0.0023)																	
44	*m*-Aminophenol	591-27-5	1986	1/27	1/9	1.1	(0.7)	0/27	0/9	—	(0.03)													44
			2006	0/21	0/7	—	(0.007)																	
45	*p*-Aminophenol	123-30-8	1986	0/27	0/9	—	(0.8)	0/27	0/9	—	(0.05)													45
			2004	3/6	1/2	0.02～0.05	(0.02)																	
			2008	3/9	1/3	0.010～0.014	(0.009)																	
46	1-Amino-2-propanol	78-96-6	1980	0/27	0/9	—	(3～110)	0/27	0/9	—	(0.006～0.58)													46
47	3-Aminopropan-1-ol	156-87-6	1980	0/27	0/9	—	(2.5～270)	0/27	0/9	—	(0.005～1.4)													47
48	2-Aminopyridine	504-29-0	1983	0/30	0/10	—	(0.1～0.4)	0/30	0/10	—	(0.002～0.05)													48
			2008													0/15	0/5	—	(0.051)					
			2009	17/31	7/11	0.0025～0.014	(0.0023)	33/33	11/11	0.000021～0.0012	(0.000013)													
49	3-Aminopyridine	462-08-8	1983	0/30	0/10	—	(0.1～2)	0/30	0/10	—	(0.002～0.098)													49
50	4-Aminopyridine	504-24-5	1983	0/30	0/10	—	(0.1～3)	0/30	0/10	—	(0.005～0.12)													50
	3-Amino-1,2,4-triazole	See 3-Amino-1*H*-1,2,4-triazole																						
51	3-Amino-1*H*-1,2,4-triazole (synonym: Amitrole)	61-82-5	1984	0/24	0/8	—	(4)	0/24	0/8	—	(0.005～0.02)													51
			2005	0/6	0/2	—	(0.012)	0/21	0/7	—	(0.0004)													
52	Amiodarone	1951-25-3	2021	0/30	0/30	—	(0.0035)																	52
	Amitrole	See 3-Amino-1*H*-1,2,4-triazole																						
53	Amoxicillin	26787-78-0	2019	15/24	15/24	0.000076～0.0023	(0.000013)																	53
54	Ampicillin	69-53-4	2020	4/22	4/22	0.00034～0.0014	(0.00012)																	54
55	Amylcinnamaldehyde	122-40-7	2010	0/51	0/17	—	(0.010)																	55
56	Aniline	62-53-3	1976	40/68	14/20	0.02～28	(0.04～0.2)	48/68	16/20	0.0007～0.50	(0.0008)													56
			1990	33/104	15/37	0.02～0.33	(0.02)	81/116	28/39	0.003～0.24	(0.002)	Fish 27/89	Fish 10/30	Fish 0.001～0.0077	(Fish 0.001)	1/48	1/16	480	(150)					
			1997													1/42	1/14	18	(15)					
			1998	1/141	1/47	0.074	(0.06)	95/120	36/43	0.0021～0.21	(0.002)													
			2005	20/121	11/42	0.060～0.49	(0.040)																	
			2016	23/28	23/28	0.017～0.16	(0.013)																	
			2020	22/31	22/31	0.016～38	(0.014)																	
57	Anionic surfactants	Unknown	1974	26/60	7/12	0.016～0.160	(0.001～0.5)																	57
58	*o*-Anisidine	90-04-0	1976	6/68	3/20	0.20～1.3	(0.2～0.8)	27/68	12/20	0.003～0.55	(0.003～0.004)													58
			1990	2/48	2/16	0.02～0.027	(0.02)	3/41	2/14	0.0067～0.0073	(0.005)	Fish 0/54	Fish 0/18	Fish —	(Fish 0.002)	0/51	0/17	—	(500)					
			2005	0/9	0/3	—	(0.0098)	0/9	0/3	—	(0.0033)													
			2012	0/16	0/16	—	(0.013)																	
			2018													0/42	0/14	—	(1.6)					
59	*m*-Anisidine	536-90-3	1976	3/68	2/20	0.016～0.028	(0.01～0.2)	6/68	3/20	0.0004～0.018	(0.0002～0.0016)													59
			1990	5/48	2/16	0.02～0.058	(0.02)	0/57	0/19	—	(0.02)	Fish 1/54	Fish 1/18	Fish 0.0046	(Fish 0.002)	0/51	0/17	—	(500)					
			2012	0/16	0/16	—	(0.010)																	

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
60	*p*-Anisidine	104-94-9	1976	4/68	2/20	0.06～0.72	(0.06～0.2)	12/68	4/20	0.001～0.006	(0.0007～0.004)													60
			1990	0/57	0/19	—	(0.4)	0/54	0/18	—	(0.017)	Fish 0/54	Fish 0/18	Fish —	(Fish 0.02)	0/51	0/17	—	(1,500)					
			2012	0/16	0/16	—	(0.0068)																	
61	Anthracene-9,10-dione (synonym: Anthraquinone)	84-65-1	1988	0/75	0/25	—	(0.2)	21/53	8/18	0.018～3.7	(0.018)													61
			1989	0/66	0/22	—	(0.18)	20/67	11/23	0.015～0.16	(0.015)													
			2006	1/21	1/7	0.14	(0.04)																	
			2008													14/14	5/5	1.1～8.7	(0.43)					
	Anthracene	See Polycyclic aromatic hydrocarbons																						
	Anthraquinone	See Anthracene-9,10-dione																						
62	Antimony and its compounds (as Antimony)	7440-36-0 etc.	1975	0/100	0/20	—	(10,000～100,000)	0/95	0/19	—	(1,000～10,000)	Fish 8/75	Fish 6/15	Fish 100～480	(Fish 100～1,000)									62
63	Arsenic and its compounds (as Arsenic)	7440-38-2 etc.	1978									Bivalves 10/10 Fish 30/30 Birds 0/6	Bivalves 2/2 Fish 6/6 Birds 0/1	Bivalves 1.5～2.7 Fish 0.1～7.1 Birds —	(Birds 0.1)									63
			1979									Bivalves 15/15 Fish 37/40 Birds 0/6	Bivalves 3/3 Fish 8/8 Birds 0/1	Bivalves 1.4～2.5 Fish 0.1～3.1 Birds —	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1980									Birds 0/8	Birds 0/1	Birds —	(Birds 0.1)									
	Aspirin	See *o*-Acetoxybenzoic acid																						
	Atrazine	See 2-Chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine																						
64	Atorvastatin	134523-00-5	2022	14/34	14/34	0.0016～0.018	(0.0014)																	64
	Auramine	See 4,4'-Carbonimidoylbis(*N*,*N*-dimethylanilin) monohydrochlorid																						
	Azilsartan	See 2-Ethoxy-1-{[2'-(5-oxo-2,5-dihydro-1,2,4-oxadiazol-3-yl)biphenyl-4-yl]methyl}-1*H*-benzimidazole-7-carboxylic acid																						
	Azinphosmethyl	See *O*,*O*-Dimethyl 4-oxobenzotriazin-3-ylmethyl dithiophosphate																						
65	Azithromycin	83905-01-5	2019	9/25	9/25	0.0025～0.13	(0.0017)																	65
66	2,2'-Azobisisobutyronitrile	78-67-1	1979	0/15	0/5	—	(10)	0/15	0/5	—	(0.1)													66
			2006	0/18	0/6	—	(0.04)																	
	Azoic CC-12	See 5'-Chloro-3-hydroxy-2',4'-dimethoxy-2-naphthanilide																						
	Azoic CC-17	See 3-Hydroxy-3'-nitro-2-naphthanilide																						
	Azoic CC-2	See 3-Hydroxy-2-naphthanilide																						
	Azoic CC-41	See 5'-Chloro-3-hydroxy-2'-methoxy-2-naphthanilide																						
	Azoic CC-8	See 4'-Chloro-3-hydroxy-2'-methyl-2-naphthanilide																						
	Azoxystrobins	See Methyl 2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylates																						
	Basic Green 4	See (4-{[4-(Dimethylamino)phenyl](phenyl)methylidene}cyclohexa-2,5-dien-1-ylidene)(dimethyl)ammonium chloride																						
	Basic Violet 10	See 9-(2-Carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride																						
	Basic Yellow 2	See 4,4'-Carbonimidoylbis(*N*,*N*-dimethylanilin) monohydrochlorid																						
	Bentazon	See 3-Isopropyl-2,1,3-benzothiadiazine-4-one-2,2-dioxide																						
	Benthiocarb	See *S*-(4-chlorobenzyl) *N*,*N*-diethylthiocarbamate																						
67	Benzaldehyde	100-52-7	1984	0/27	0/9	—	(0.5～4)	8/27	3/9	0.01～0.17	(0.01～0.1)													67
			2012													11/36	6/12	250～570	(230)					
	Benzalkonium chloride	See Alkylbenzyldimethyl ammonium chlorides (C_{12}, C_{14} or C_{16}-alkyl)																						
	Benzo[*a*]anthracene	See Polycyclic aromatic hydrocarbons																						
68	Benzene	71-43-2	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.004)													68
			1985	11/19	6/7	0.02～0.9	(0.02)	12/18	4/6	0.0005～0.0036	(0.0002)													
			1986	19/112	9/38	0.03～2.1	(0.03)	37/98	17/33	0.0005～0.030	(0.0005)	Fish 37/114	Fish 15/36	Fish 0.003～0.088	(Fish 0.003)									
69	1,2,4-Benzenetricarboxylic acid (synonym: Trimellitate)	528-44-9	1986	0/30	0/10	—	(1)	0/30	0/10	—	(0.03)													69
70	1,2,4-Benzenetricarboxylic acid tri-*n*-octyl ester		2010	0/45	0/15	—	(0.011)																	70
71	1,2,4-Benzenetricarboxylic acid tris(2-ethylhexyl) ester	3319-31-1	1980	0/45	0/15	—	(0.008～3)	0/45	0/15	—	(0.0039～0.02)													71
	Benzenetricarboxylic acid tris(2-ethylhexyl) ester	See 1,2,4-Benzenetricarboxylic acid tris(2-ethylhexyl) ester																						
72	Benzidine	92-87-5	1977	0/6	0/2	—	(0.015)	0/3	0/1	—	(0.003)													72
73	(3*S*,4*R*)-3-[(2*H*-1,3-Benzodioxol-5-yloxy)methyl]-4-(4-fluorophenyl) piperidine (synonym: Paroxetine)	61869-08-7	2016	1/16	1/16	0.0029	(0.00065)																	73
	Benzoepin	See 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin 3-oxides																						
	Benzofluoranthenes	See Polycyclic aromatic hydrocarbons																						
74	Benzoic acid	65-85-0	1985	3/33	2/11	5～6	(4)	24/33	8/11	0.05～4.58	(0.04)													74
			1986	31/111	13/37	0.20～2.1	(0.2)	112/146	41/49	0.02～2.0	(0.02)	Fish 113/137	Fish 39/44	Fish 0.005～0.31	(Fish 0.005)									
	1,4-Benzonitrile	See Terephthalonitrile																						
75	Benzonitrile	100-47-0	1977	0/6	0/2	—	(1～5)	0/6	0/2	—	(0.1～1)													75
	Benzo[*g*,*h*,*i*]perylene	See Polycyclic aromatic hydrocarbons																						
76	Benzophenone	119-61-9	1981	0/15	0/5	—	(0.1～0.2)	0/15	0/5	—	(0.02)													76
			2012	7/25	7/25	0.0047～0.038	(0.0043)																	
			2023	17/34	17/34	0.0043～9.5	(0.0040)																	
	Benzophenone-3	See 2-Hydroxy-4-methoxybenzophenone																						
	Benzophenone-4	See 2-Hydroxy-4-methoxybenzophenone-5-sulfonic acid																						
	Benzo[*a*]pyrene	See Polycyclic aromatic hydrocarbons																						
	Benzo[*e*]pyrene	See Polycyclic aromatic hydrocarbons																						
77	*p*-Benzoquinone bis(*O*-benzoyloxime)	120-52-5	1980	0/36	0/12	—	(0.1～10)																	77
78	Benzothiazole	95-16-9	1983	0/30	0/10	—	(0.1～0.5)	4/30	3/10	0.0016～0.0033	(0.0015～0.05)													78
	1,3-Benzothiazole-2-thiol	See 2-Mercaptobenzothiazole																						
79	2-(2-Benzothiazolyloxy)-*N*-methylacetanilide (synonym: Mefenacet)	73250-68-7	2006	0/39	0/13	—	(0.025)					Bivalves & Fish 0/30	Bivalves & Fish 0/10	Bivalves & Fish —	(Bivalves & Fish 0.0003)									79
80	Benzo[b]thiophene	95-15-8	1998	0/42	0/14	—	(0.05)	11/36	4/12	0.0023～0.023	(0.002)	Fish 0/42	Fish 0/14	Fish —	(Fish 0.001)									80
	Benzothiophene	See Benzo[b]thiophene																						

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
81	2-(2*H*-1,2,3-Benzotriazol-2-yl)-4,6-di-*tert*-butylphenol	3846-71-7	2005	0/15 10/152	0/5 4/44	— 0.000084～0.030	(0.006) (0.000080)																	81
			2006	5/18	2/6	0.00005～0.00010	(0.00004)	18/18	6/6	0.000009～0.0058	(0.000010)	Bivalves & Fish 30/30	Bivalves & Fish 10/10	Bivalves & Fish 0.000009～0.0037	(Bivalves & Fish 0.000003)									
			2012	1/48	1/48	0.000049	(0.000039)	141/187	52/63	0.000008～0.0045	(0.000008)	Bivalves 11/11 Fish 49/57 Birds 3/6	Bivalves 5/5 Fish 17/19 Birds 1/2	Bivalves 0.0000055～0.000026 Fish 0.0000019～0.0017 Birds 0.0000053～0.000012	(Bivalves 0.0000018) (Fish 0.0000018) (Birds 0.0000018)									
82	2-(*m*-Benzoylphenyl)propionic acid	22071-15-4	2018	12/17	12/17	0.000097～0.050	(0.000055)																	82
83	Benzyl acetate	140-11-4	2009	0/32	0/11	—	(0.016)																	83
84	Benzyl alcohol	100-51-6	1985	0/33	0/11	—	(0.2)	3/24	2/8	0.010～0.013	(0.01)													84
			2006	0/15	0/5	—	(0.05)	6/15	3/5	0.007～0.021	(0.007)													
			2007													14/18	5/6	540～7,300	(450)					
85	Benzyl benzoate	120-51-4	2016	2/20	2/20	0.011～0.072	(0.0044)	16/60	6/20	0.0013～0.0035	(0.0013)	Bivalves & Fish 21/38	Bivalves & Fish 7/13	Bivalves & Fish 0.0014～0.0065	Bivalves & Fish (0.0011)									85
86	Benzyl chloride	100-44-7	1976	0/60	0/17	—	(30～100)	0/53	0/17	—	(0.4～4)	Fish 0/2	Fish 0/1	Fish —	(Fish 1.0)									86
			1989	0/63	0/21	—	(0.2)	0/66	0/22	—	(0.01)					5/21	2/7	6.4～8.3	(5)					
87	*S*-Benzyl *O*,*O*-diisopropyl thiophosphate (synonym: Iprobenfos or IBP)	26087-47-8	1993	13/165	5/55	0.1～1.6	(0.094)	2/168	1/56	0.038～0.039	(0.037)	Fish 4/153	Fish 2/50	Fish 0.017～0.048	(Fish 0.016)	0/24	0/8	—	(3)					87
			2005	66/72	8/8	0.013～1.9	(0.012)																	
88	Benzyl-*p*-hydroxybenzoate	94-18-8	2019	1/27	1/27	0.00031	(0.00029)																	88
89	3-Benzylidene camphor	15087-24-8	2019	0/28	0/28	—	(0.023)																	89
90	Benzylidene dichloride	98-87-3	2006													0/15	0/5	—	(2)					90
91	2-Benzylidene octanal	101-86-0	2021	0/44	0/44	—	(0.015)	99/116	36/40	0.00039～0.072	(0.00013)													91
92	Benzylidyne trichloride	98-07-7	2006													0/15	0/5	—	(4)					92
	[(Benzyloxy)methyl]benzene	See Dibenzyl ether																						
	Benzylparaben	See Benzyl-p-hydroxybenzoate																						
	Bezafibrate	See 2-(4-{2-[(4-Chlorobenzoyl)amino]ethyl}phenoxy)-2-methylpropanoic acid																						
	BHA	See 2-*tert*-Butyl-4-methoxyphenol																						
	BHC	See Hexachlorocyclohexane																						
	BHT	See 2,6-Di-*tert*-butyl-4-metylphenol																						
	Bifenthrin	See 2-Methyl-1,1'-biphenyl-3-ylmethyl (*Z*)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate																						
93	Biphenyl	92-52-4	1976	0/68	0/15	—	(0.2～10)	0/50	0/15	—	(0.05 ～1.0)	Fish 0/20	Fish 0/9	Fish —	(Fish 0.04 ～0.25)									93
			2007													21/24	7/8	4.5～28	(3.8)					
94	Biphenyl-2-ylamine	90-41-5	1977	0/6	0/2	—	(0.05)	0/3	0/1	—	(0.02)													94
95	4,4'-Bipyridyl	553-26-4	2013	0/14	0/14	—	(0.0009)																	95
96	Bis(4-aminocyclohexyl)methane (synonym: Diaminodicyclohexylmethane)	1761-71-3	2015	0/16	0/16	—	(0.014)																	96
	Bis(4-bromophenyl) ether	See Brominated diphenyl ether (4,4'-Dibromodiphenyl ether)																						
97	Bis(2-(2-butoxyethoxy)ethyl) adipate	141-17-3	1978	0/30	0/10	—	(0.8～50)	0/30	0/10	—	(0.04～2)													97
98	1,1-Bis(*tert*-butyldioxy)-3,3,5-trimethylcyclohexane	6731-36-8	1989	0/69	0/23	—	(0.2)	0/69	0/23	—	(0.028)	Fish 0/63	Fish 0/21	Fish —	(Fish 0.01)									98
			1995	0/33	0/11	—	(0.03)	0/33	0/11	—	(0.011)	Fish 0/33	Fish 0/11	Fish —	(Fish 0.005)									
			2006									Bivalves & Fish 0/30	Bivalves & Fish 0/10	Bivalves & Fish —	(Bivalves & Fish 0.00003)									
			2007	0/33	0/11	—	(0.00010)	3/33	1/11	0.00014～0.00017	(0.000034)													
	1,1-Bis(*tert*-butylperoxy)-3,3,5-trimethylcyclohexane	See 1,1-Bis(*tert*-butyldioxy)-3,3,5-trimethylcyclohexane																						
99	Bis(2-chloroethyl) ether	111-44-4	1977	0/6	0/2	—	(2～5)	0/6	0/2	—	(0.5～0.6)													99
			1984	0/24	0/8	—	(0.07～0.1)	0/24	0/8	—	(0.003～0.008)													
			1995	6/27	2/9	0.030～0.071	(0.02)	0/33	0/11	—	(0.01)	Fish 0/33	Fish 0/11	Fish —	(Fish 0.6)									
			1996													0/18	0/6	—	(56)					
	Bis(2-chloroisopropyl) ether	See Bis(2-chloro-1-methylethyl) ether																						
100	Bis(2-chloro-1-methylethyl) ether	108-60-1	1984	0/24	0/8	—	(0.10)	0/24	0/8	—	(0.003～0.015)													100
101	1,2-Bis(2-chlorophenyl)hydrazine	782-74-1	2022	0/25	0/25	—	(0.0018)																	101
102	4,4'-Bis(dimethylamino) benzophenone	90-94-8	1985	0/24	0/8	—	(0.5)	0/24	0/8	—	(0.02)													102
	4,4'-Bis(dimethylaminophenyl) methane	See 4,4'-Methylenebis(*N*,*N*'-dimethylaniline)																						
	Bis(dimethylcarbamoyl)disulfide	See Tetramethylthiuram disulfide																						
103	2,6-Bis(1,1-dimethylethyl)-4-ethylphenol	4130-42-1	1984	0/30	0/10	—	(0.06～0.3)	2/30	1/10	0.0036～0.0048	(0.0006～0.0071)													103
			2001	5/153	2/51	0.063～0.21	(0.055)	8/159	4/53	0.0035～0.074	(0.0033)													
	2,6-Bis(1,1-dimethylethyl)phenol	See 2,6-Di-*tert*-butylphenol																						
	Bis(dimethylthiocarbamoyl) sulfide	See Tetramethyl-thiodicarbonic diamide																						
104	1,3-Bis[(2,3-epoxypropyl)oxy]benzene	101-90-6	2015	0/19	0/19	—	(0.0097)																	104
105	2,4-Bis(ethylamino)-6-methylthio-1,3,5-triazine	1014-70-6	1992	6/78	2/26	0.1～0.27	(0.05)	2/78	1/26	0.016～0.023	(0.011)	Fish 0/75	Fish 0/25	Fish —	(Fish 0.0078)									105
106	Bis(2-ethylhexyl)adipate	103-23-1	1978	0/30	0/10	—	(0.4～25)	0/30	0/10	—	(0.02～1)													106
			1984													47/72	11/12	0.23～16.7	(0.10～0.61)					
			1995	0/33	0/11	—	(0.7)	11/29	5/10	0.016～0.10	(0.012)					31/41	13/14	1.0～22	(1)					
			1998													26/33	11/12	1.0～26	(1)					
107	Bis(2-ethylhexyl)sebacate	122-62-3	1981	0/21	0/7	—	(0.8～4)	0/21	0/7	—	(0.04～0.4)													107
	2,2-Bis[4-(2-hydoroxy)-3,5-dibromophenyl]propane	See 2,2'-Isopropylidenebis[(2,6-dibromo-4,1- phenylene)oxy] diethanol																						
108	(*Z*)-*N*,*N*-Bis(2-hydroxyethyl)oleamide	93-83-4	2016	3/18	3/18	0.0013～0.0037	(0.0013)																	108
	2,2-Bis(4-hydroxyphenyl)propane	See 4,4'-Propane-2,2-diyldiphenol																						
	Bis(1-methyl-1-chloroethyl) ether	See Bis(2-chloro-1-methylethyl) ether																						
109	Bis(1-methyl-1-phenylethyl) peroxide	80-43-3	2009	0/66	0/22	—	(0.007)																	109
	Bisphenol A	See 4,4'-Propane-2,2-diyldiphenol																						
	Bisphenol AF	See 4,4'-[2,2,2-Trifluoro-1-(trifluoromethyl)ethylidene]bisphenol																						
	Bisphenol F	See 4,4'-Dihydroxydiphenylmethane																						
	Bisphenol S	See 4,4'-Sulfonyldiphenol																						
110	2,4-Bis(1-phenylethyl)phenol	2769-94-0	1981	0/27	0/9	—	(0.03～0.05)	6/27	2/9	0.16～0.3	(0.002～0.01)													110

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
111	Bis(piperidinothiocarbonyl) tetrasulphide	120-54-7	1980	0/21	0/7	—	(0.002～0.07)	0/9	0/3	—	(0.2)													111
112	Bis(2,3,3,3-tetrachloropropyl) ether	127-90-2	1981	0/24	0/8	—	(0.01～0.025)	0/24	0/8	—	(0.001～0.0029)													112
			1984	0/24	0/8	—	(0.001～0.002)	0/24	0/8	—	(0.00005～0.00023)													
			2004	0/27	0/9	—	(0.0045)	0/27	0/9	—	(0.0026)													
113	Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate	52829-07-9	2014	7/21	7/21	0.0061～0.69	(0.0049)																	113
	Bis(tribromophenoxy)ethane	See 1,1'-[1,2-Ethanediylbis(oxy)]bis[2,4,6-tribromobenzene]																						
	BPMC	See 2-*sec*-Butylphenyl *N*-methylcarbamate																						
	Branched alkylbenzene sulfonetes	See Alkylbenzene sulfonetes (Branched alkylbenzene sulfonetes)																						
114	2-Bromoaniline	615-36-1	1984	0/18	0/6	—	(0.003～0.1)	0/18	0/6	—	(0.0001～0.012)													114
115	3-Bromoaniline	591-19-5	1984	0/18	0/6	—	(0.006～0.1)	0/18	0/6	—	(0.0004～0.012)													115
116	4-Bromoaniline	106-40-1	1984	0/18	0/6	—	(0.006～0.1)	0/18	0/6	—	(0.0004～0.012)													116
	o-Bromoaniline	See 2-Bromoaniline																						
	m-Bromoaniline	See 3-Bromoaniline																						
	p-Bromoaniline	See 4-Bromoaniline																						
117	Bromobenzene	108-86-1	1981	0/12	0/4	—	(10)	0/12	0/4	—	(0.2)													117
118	1-Bromobutane	109-65-9	1981	0/15	0/5	—	(3)	0/15	0/5	—	(0.012～0.02)													118
119	Bromochlorodifluoromethane (synonym: Halon 1211)	353-59-3	2006	0/15	0/5	—	(0.02)																	119
120	Bromochloromethane	74-97-5	1976	0/60	0/12	—	(0.2～1)	0/40	0/10	—	(0.005～0.065)	Fish 0/20	Fish 0/4	Fish —	(Fish 0.005～0.010)									120
121	1-Bromo-3-chloropropane	109-70-6	1999	0/156	0/52	—	(0.0041)	6/147	2/49	0.022～0.055	(0.0040)					3/21	2/7	20～34	(19)					121
122	Bromodichloromethane	75-27-4	1980													9/81	3/16	0.1～1.9	(0.1～50)					122
			1981	1/15	1/5	0.01	(0.01)	0/15	0/5	—	(0.00006)													
			1983													83/93	11/11	0.05～13	(0.04～0.5)					
			2006	7/15	3/5	0.0040～0.012	(0.004)	0/15	0/5	—	(0.0006)													
			2012													36/54	15/18	2.5～37	(2.4)					
123	2-(4-Bromodifluoromethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether (synonym: Halfenprox)	111872-58-3	2006	0/33	0/11	—	(0.013)																	123
124	Bromoethane	74-96-4	1976	0/60	0/12	—	(160～450)	0/40	0/10	—	(1.54～23)	Fish 0/20	Fish 0/4	Fish —	(Fish 0.77～2.0)									124
			1983													15/101	2/12	2～59	(1～17)					
			1997													5/30	3/10	5.9～53	(5.4)					
			1998													0/36	0/12	—	(40)					
	Bromoform	See Tribromomethane																						
125	Bromomethane	74-83-9	1976	0/60	0/12	—	(1.8～19)	0/40	0/10	—	(0.024～0.95)	Fish 0/20	Fish 0/4	Fish —	(Fish 0.012～0.05)									125
			1980													5/27	3/6	15～31	(15～100)					
			1998													36/39	13/14	49～340	(41)					
			2002	0/48	0/16	—	(0.1)																	
			2003													10/12	4/4	33～490	(27)					
			2016	0/19	0/19	—	(0.0051)																	
	2-Bromophenol	See *o*-Bromophenol																						
	3-Bromophenol	See *m*-Bromophenol																						
	4-Bromophenol	See *p*-Bromophenol																						
126	*o*-Bromophenol	95-56-7	1983	0/33	0/11	—	(0.08～0.1)	0/33	0/11	—	(0.001～0.005)													126
127	*m*-Bromophenol	591-20-8	1983	0/33	0/11	—	(0.4)	0/33	0/11	—	(0.001～0.02)													127
128	*p*-Bromophenol	106-41-2	1983	0/33	0/11	—	(0.4)	5/33	3/11	0.02～0.03	(0.001～0.02)													128
			1996	0/33	0/11	—	(0.07)	0/33	0/11	—	(0.011)													
			2008	4/102	2/34	0.0020～0.0029	(0.0018)																	
129	4-Bromophenyl phenyl ether	101-55-3	1984	0/27	0/9	—	(0.15～0.5)	0/27	0/9	—	(0.0025～0.12)													129
130	1-Bromopropane	106-94-5	1981	0/15	0/5	—	(2～3)	0/15	0/5	—	(0.009～0.02)													130
			2004													27/57	11/19	27～270	(25)					
			2012	2/21	2/21	0.0027～0.0073	(0.0015)																	
131	2-Bromopropane	75-26-3	1997	0/36	0/12	—	(0.01)	0/36	0/12	—	(0.028)					0/57	0/19	—	(200)					131
			1998													0/39	0/13	—	(170)					
132	3-Bromo-1- propene (synonym: Allyl bromide)	106-95-6	2006	0/15	0/5	—	(0.0018)																	132
133	*beta*-Bromostyrene	103-64-0	1985	0/30	0/10	—	(0.05)	0/30	0/10	—	(0.003)													133
	BRP	See 1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate																						
	Butachlor	See *N*-(Butoxymethyl)-2-chloro-2',6'-diethylacetanilide																						
134	1,3-Butadiene	106-99-0	1977	0/6	0/2	—	(0.1～5)	0/6	0/2	—	(0.0005～0.005)													134
			2013	0/25	0/25	—	(0.049)																	
	Butadiene	See 1,3-Butadiene																						
135	1-Butanamine	109-73-9	1981	0/27	0/9	—	(2～4)	0/27	0/9	—	(0.005～0.04)													135
	1,2-Butanediol	See 1,2-Butylene glycol																						
136	1,3-Butanediol	107-88-0	1986	0/24	0/8	—	(0.3)	0/24	0/8	—	(0.03)													136
137	1,4-Butanediol	110-63-4	1986	0/24	0/8	—	(2)	0/24	0/8	—	(0.09)													137
138	1-Butanol	71-36-3	1979	0/30	0/10	—	(100～1,000)	0/30	0/10	—	(1.0～10.0)													138
			1995	2/33	2/11	2.3～3.7	(2)	4/33	2/11	0.14～0.78	(0.12)					9/15	3/5	51～1,300	(50)					
			2006													13/21	5/7	71～1,400	(60)					
			2015	0/19	0/19	—	(0.16)																	
139	2-Butanol	78-92-2	1979	0/30	0/10	—	(100～1,000)	0/30	0/10	—	(1.0～10.0)													139
			1995	0/33	0/11	—	(10)	2/33	1/11	0.029～0.049	(0.021)													
	n-Butanol	See 1-Butanol																						
	sec-Butanol	See 2-Butanol																						
	tert-Butanol	See 2-Methylpropan-2-ol																						
	2-Butanone	See Methyl ethyl ketone																						
140	Butan-2-one oxime	96-29-7	1978	0/21	0/7	—	(10～30)	0/18	0/6	—	(0.1～0.7)													140
			2010	54/66	20/22	0.0098～0.52	(0.0097)																	
			2014													0/30	0/10	—	(13)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
141	2-Butenal (synonym: Crotonaldehyde)	4170-30-3	1987	0/75	0/25	—	(0.8)									0/61	0/10	—	(800)					141
			1995	0/33	0/11	—	(2)									3/54	1/18	3,600～5,200	(3,000)					
			1997													1/42	1/14	1,600	(1,000)					
			1998													21/29	8/10	15～330	(15)					
			2009	56/69	20/23	0.012～0.25	(0.012)																	
	1-*n*-Butoxy-2,3-epoxypropane	See (Butoxymethyl)oxirane																						
142	2-Butoxyethanol	111-76-2	1976	0/60	0/15	—	(90～100)	0/20	0/4	—	(0.4)													142
			1995	1/168	1/56	2.2	(2)	0/165	0/55	—	(0.22)													
			2000													43/45	15/15	4.8～560	(2.2)					
143	*N*-(Butoxymethyl)-2-chloro-2',6'-diethylacetanilide	23184-66-9	1994	0/39	0/13	—	(0.02)	0/39	0/13	—	(0.0044)	Fish 0/39	Fish 0/13	Fish —	(Fish 0.002)									143
			2001	0/51	0/17	—	(0.11)	0/51	0/17	—	(0.0016)	Fish 0/48	Fish 0/16	Fish —	(Fish 0.0015)									
	(Butoxymethyl)oxirane	See Butyl-2,3-epoxypropyl ether																						
144	Butyl acetate	123-86-4	1995	0/33	0/11	—	(0.2)									18/18	6/6	8.1～2,100	(2)					144
			2000													39/45	14/15	110～13,000	(88)					
145	Butyl acrylate	141-32-2	1980	0/51	0/17	—	(0.7～30)	0/51	0/17	—	(0.0080～0.07)													145
			2008													1/59	1/20	78	(29)					
			2012	2/22	2/22	0.027～0.047	(0.009)																	
			2014									Bivalves & Fish 0/36	Bivalves & Fish 0/12	Bivalves & Fish —	(Bivalves & Fish 0.00038)									
			2024	0/44	0/44	—	(0.0043)																	
146	*tert*-Butyl acrylate	1663-39-4	2024	0/44	0/44	—	(0.0021)																	146
	tert-Butyl alcohol	See 2-Methylpropan-2-ol																						
	n-Butylamine	See 1-Butanamine																						
147	2-*tert*-Butylamino-4-cyclopropylamino-6-methylthio-1,3,5-triazine	28159-98-0	2005	0/30	0/10	—	(0.008)																	147
			2023	24/35	24/35	0.000058～0.0028	(0.000038)	20/78	9/26	0.00006～0.0020	(0.000030)													
148	4-*tert*-Butylbenzoic acid	98-73-7	1985	0/33	0/11	—	(4)	6/24	2/8	0.02～0.05	(0.02)													148
			1986	2/105	1/35	0.2～0.3	(0.2)	2/138	2/46	0.02～0.021	(0.02)	Fish 7/108	Fish 4/34	Fish 0.005 ～0.047	(Fish 0.005)									
			1996	2/33	1/11	0.2～0.6	(0.2)	8/33	4/11	0.021～0.06	(0.02)													
			2018	16/18	16/18	0.021～0.21	(0.018)									42/45	14/15	1.5～24	(0.21)					
	p-*tert*-Butylbenzoic acid	See 4-*tert*-Butylbenzoic acid																						
149	*N*-(*tert*-Butyl)-2-benzothiazole sulfenamide	95-31-8	1998	0/39	0/13	—	(0.1)	0/36	0/12	—	(0.0047)													149
			2024	0/2	0/2	—	(0.012)																	
	Butyl benzyl phthalate	See Phthalates (*n*-Butyl benzyl phthalate)																						
	N-*tert*-Butyl-*N'*-cyclopropyl-6-(methylthio)-1,3,5-triazine-2,4-diamine	See 2-*tert*-Butylamino-4-cyclopropylamino-6-methylthio-1,3,5-triazine																						
	2-*tert*-Butyl-4-(2,4-dichloro-5-isopropoxyphenyl)-1,3,4-oxadiazoline-5-one	See 3-[2,4-dichloro-5-(1-methylethoxy)phenyl]-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2-(3*H*)-one																						
150	1-*tert*-Butyl-3-(2,6-diisopropyl-4-phenoxyphenyl)thiourea (synonym: Diafenthiuron)	80060-09-9	2006	0/15	0/5	—	(0.020)																	150
151	Butyl-2,3-epoxypropyl ether	2426-08-6	1984	0/24	0/8	—	(0.5～0.7)	0/24	0/8	—	(0.006～0.019)													151
			2024	0/26	0/26	—	(0.19)																	
152	1,2-Butylene glycol	584-03-2	1995	0/33	0/11	—	(0.2)	3/33	1/11	0.009～0.013	(0.0061)													152
153	*tert*-Butyl 2-ethylperoxyhexanoate	3006-82-4	2009	0/36	0/12	—	(0.0069)																	153
154	*n*-Butyl formate	592-84-7	1981	0/9	0/3	—	(60)	0/9	0/3	—	(0.6)													154
	tert-Butylhydroxyanisole	See 2-*tert*-Butyl-4-methoxyphenol																						
	p-*tert*-Butylhydroxyphenol	See 2-(1,1-Dimethylethyl)-1,4-benzenediol																						
	4,4'-Butylidenebis(6-*tert*-butyl-3-methylphenol)	See 6,6'-Di-*tert*-butyl-4,4'-butylidenedi-*m*-cresol																						
155	*n*-Butyl methacrylate	97-88-1	1979	0/24	0/8	—	(0.005～1)	0/24	0/8	—	(0.00010～0.01)													155
			2011	0/14	0/14	—	(0.012)									5/42	2/14	14～37	(8.7)					
156	2-*tert*-Butyl-4-methoxyphenol	121-00-6	1980	0/39	0/13	—	(0.03～10)	0/39	0/13	—	(0.0027～0.2)													156
			2000	0/30	0/10	—	(0.016)	0/30	0/10	—	(2.0)													
157	2-*tert*-Butyl-5-methylphenol	88-60-8	2008	0/99	0/33	—	(0.0019)																	157
			2009					0/35	0/12	—	(0.00059)													
158	Butylnaphthalenesulphonic acid	25638-17-9	1981	0/18	0/6	—	(0.5～15)	0/18	0/6	—	(0.025～3.2)													158
	n-Butyl *p*-oxybenzoate	See Butylparaben																						
159	Butylparaben	94-26-8	2000	0/33	0/11	—	(0.027)	0/30	0/10	—	(2.3)	Fish 0/28	Fish 0/10	Fish —	(Fish 2.9)									159
160	4-*tert*-Butylphenol	98-54-4	1976	0/68	0/20	—	(0.2～5)	0/68	0/20	—	(0.01 ～0.25)													160
			1996	0/168	0/56	—	(0.714)	0/168	0/56	—	(0.1)					0/18	0/6	—	(11)					
			1997	6/141	2/47	0.1	(0.08)	0/168	0/56	—	(0.04)													
			2024	0/4	0/4	—	(0.0034)																	
	p-*tert*-Butylphenol	See 4-*tert*-Butylphenol																						
161	2-*sec*-Butylphenyl *N*-methylcarbamate (synonym: BPMC)	3766-81-2	1988	0/75	0/25	—	(0.4)	0/69	0/23	—	(0.0103)					4/72	2/12	7.7～48	(7.0)					161
			2006	30/30	10/10	0.0002～0.0051	(0.0002)																	
			2020	25/32	25/32	0.00011～0.0042	(0.000052)																	
	o-*sec*-Butylphenyl methylcarbamate	See 2-*sec*-Butylphenyl *N*-methylcarbamate																						
	6-*tert*-Butyl-2,4-xylenol	See 2-(1,1-Dimethylethyl)-4,6-dimethylphenol																						
162	Cadmium and its compounds (as Cadmium)	7440-43-9	1978									Bivalves 10/10 Fish 9/30 Birds 6/6	Bivalves 2/2 Fish 2/6 Birds 1/1	Bivalves 0.09～0.31 Fish 0.01～0.03 Birds 0.02	(Fish 0.01)									162
			1979									Bivalves 15/15 Fish 0/40 Birds 6/6	Bivalves 3/3 Fish 0/8 Birds 1/1	Bivalves 0.16～0.68 Fish — Birds 0.08～0.12	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1980									Bivalves 8/8	Birds 1/1	Birds 0.01～0.02	(Birds 0.01)									
	Caffeine	See 1,3,7-Trimethyl-1*H*-purine-2,6(3*H*,7*H*)-dione																						
	Camphechlor	See Polychloro-2,2-dimethyl-3-methylidenebicyclo[2.2.1]heptanes																						
	Caprolactam	See *epsilon*-Caprolactam																						
163	*epsilon*-Caprolactam	105-60-2	1977	0/6	0/2	—	(1～5)	1/6	1/2	1.6	(0.5～1)													163
			1991	0/30	0/10	—	(0.2)	0/30	0/10	—	(0.027)	Fish 1/30	Fish 1/10	Fish 0.014	(Fish 0.01)	7/51	3/17	120～330	(100)					
			2010													23/42	9/14	3.6～370	(3.6)					
	Captafol	See *N*-(1,1,2,2-Tetrachloroethylthio)-1,2,3,6-tetrahydrophthalimide																						
	Carbamazepine	See 5*H*-Dibenzo[*b*,*f*]azepine-5-carboxamide																						
	Carbaryl	See 1-Naphtyl *N*-methylcarbamate																						

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
164	Carbazole	86-74-8	1976	0/20	0/5	—	(0.2)	0/20	0/5	—	(0.02)													164
			1994													0/30	0/10	—	(50)					
	Carbendazim	See Methyl benzoimidazol-2-ylcarbamate																						
	Carbofuran	See 2,3-Dihydro-2,2-dimethyl-7-benzo[b]furanyl *N*-methylcarbamate																						
165	Carbon disulfide	75-15-0	1977	0/6	0/4	—	(0.056～0.1)	0/6	0/4	—	(0.0015～0.01)													165
			1992													5/51	3/17	530～1,900	(500)					
			2016	18/20	18/20	0.024～0.41	(0.0053)					Bivalves & Fish 0/32	Bivalves & Fish 0/11	—	Bivalves & Fish (0.00041)									
			2020	31/32	31/32	0.0082～0.42	(0.0042)																	
166	4,4'-Carbonimidoylbis(*N*,*N*-dimethylanilin) monohydrochlorid (synonym: Auramine or Basic Yellow-2)	2465-27-2	1986	0/30	0/10	—	(2)	0/30	0/10	—	(0.7)													166
167	*p*-Carboxy-*beta*-(5-nitro-2-furyl)styrene sodium	54992-23-3	1983	0/30	0/10	—	(0.1～0.5)	0/30	0/10	—	(0.001～0.054)													167
168	9-(2-Carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride (synionym: BasicViolet 10)	81-88-9	1986	0/27	0/9	—	(0.2)	0/27	0/9	—	(0.02)													168
	CAT	See 2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine																						
	Catechol	See Pyrocatechol																						
169	Cerium and its compounds (as Cerium)	7440-45-1 etc.	2010	63/63	21/21	0.0040～1.3	(0.0014)																	169
			2019	25/25	25/25	0.0043～1.2	(0.00015)																	
	CFC-11	See Trichlorofluoromethane																						
	CFC-113	SeeTrichlorotrifluoroethane																						
	CFC-12	See Dichlorodifluoromethane																						
	Chlomethoxynil	See 2,4-Dichlorophenyl 3-methoxy-4-nitrophenyl ether																						
	Chlorbutanol	See 1,1,1-Trichloro-2-methyl-2-propanol																						
170	*cis*-Chlordane	5103-71-9	1982	0/126	0/42	—	(0.005)	76/126	31/42	0.0002～0.051	(0.0002～0.001)	Fish 97/123	Fish 30/36	Fish 0.001～0.053	(Fish 0.001)									170
			1983									Bivalves 14/20 Fish 31/50 Birds 5/10	Bivalves 3/4 Fish 7/10 Birds 1/2	Bivalves 0.001～0.021 Fish 0.001～0.024 Birds 0.009～0.017	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 15/20 Fish 41/60 Birds 5/10	Bivalves 3/4 Fish 9/12 Birds 1/2	Bivalves 0.001～0.028 Fish 0.001～0.042 Birds 0.007～0.010	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 15/20 Fish 35/60 Birds 5/10	Bivalves 3/4 Fish 7/12 Birds 1/2	Bivalves 0.001～0.035 Fish 0.001～0.023 Birds 0.013～0.017	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986													18/73	7/12	0.43～5.0	(0.4)					
					1/18	0.01			10/18	0.0002～0.0200		Bivalves 16/20 Fish 39/60 Birds 5/10	Bivalves 4/4 Fish 8/12 Birds 1/2	Bivalves 0.001～0.034 Fish 0.001～0.021 Birds 0.008～0.021	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987		1/20	0.0009			12/20	0.00008～0.034		Bivalves 15/20 Fish 44/65 Birds 5/10	Bivalves 3/4 Fish 9/13 Birds 1/2	Bivalves 0.001～0.034 Fish 0.001～0.026 Birds 0.008～0.018	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988		0/22	—			7/22	0.00011～0.012		Bivalves 13/20 Fish 37/65 Birds 5/10	Bivalves 3/4 Fish 9/13 Birds 1/2	Bivalves 0.001～0.018 Fish 0.001～0.022 Birds 0.005～0.008	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989		0/17	—			6/17	0.00016～0.020		Bivalves 16/21 Fish 45/65 Birds 5/10	Bivalves 4/5 Fish 10/13 Birds 1/2	Bivalves 0.001～0.044 Fish 0.001～0.035 Birds 0.002～0.004	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990		0/18	—			6/18	0.00012～0.0202		Bivalves 18/25 Fish 38/65 Birds 5/10	Bivalves 4/5 Fish 9/13 Birds 1/2	Bivalves 0.001～0.053 Fish 0.001～0.022 Birds 0.003～0.008	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991		0/18	—			8/18	0.000094～0.015		Bivalves 20/30 Fish 38/65 Birds 5/10	Bivalves 4/6 Fish 9/13 Birds 1/2	Bivalves 0.001～0.032 Fish 0.001～0.019 Birds 0.002～0.004	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992		0/18	—			9/18	0.000025～0.013		Bivalves 15/30 Fish 37/70 Birds 5/10	Bivalves 3/6 Fish 8/14 Birds 1/2	Bivalves 0.001～0.040 Fish 0.001～0.015 Birds 0.004～0.009	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993		1/19	0.0003			8/19	0.000014～0.012		Bivalves 19/30 Fish 37/70 Birds 5/10	Bivalves 4/6 Fish 9/14 Birds 1/2	Bivalves 0.001～0.034 Fish 0.001～0.015 Birds 0.004～0.007	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994		0/17	—			7/17	0.000028～0.0075		Bivalves 20/30 Fish 33/70 Birds 0/5	Bivalves 4/6 Fish 11/14 Birds 0/1	Bivalves 0.001～0.036 Fish 0.001～0.017 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995		0/18	—			4/18	0.000052～0.0045		Bivalves 20/30 Fish 33/70 Birds 0/10	Bivalves 4/6 Fish 9/14 Birds 0/2	Bivalves 0.002～0.041 Fish 0.001～0.008 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996		0/18	—			9/18	0.000038～0.005		Bivalves 15/30 Fish 24/70 Birds 0/10	Bivalves 3/6 Fish 6/14 Birds 0/2	Bivalves 0.002～0.025 Fish 0.001～0.027 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1997		0/18	—			6/18	0.000022～ 0.00593		Bivalves 20/30 Fish 18/70 Birds 0/10	Bivalves 4/6 Fish 4/14 Birds 0/2	Bivalves 0.001～0.023 Fish 0.001～0.009 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1998		0/18	—			6/18	0.00022～0.0052		Bivalves 20/30 Fish 25/70 Birds 0/10	Bivalves 4/6 Fish 6/14 Birds 0/2	Bivalves 0.001～0.016 Fish 0.001～0.010 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999						3/18	0.00039～0.0020		Bivalves 15/30 Fish 20/70 Birds 0/10	Bivalves 3/6 Fish 5/14 Birds 0/2	Bivalves 0.001～0.019 Fish 0.001～0.009 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2000						5/17	0.00021～0.0057		Bivalves 15/30 Fish 26/69 Birds 0/10	Bivalves 3/6 Fish 7/14 Birds 0/2	Bivalves 0.001～0.025 Fish 0.001～0.010 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001						4/20	0.0010～0.0047		Bivalves 15/30 Fish 31/72 Birds 1/10	Bivalves 3/6 Fish 7/15 Birds 1/2	Bivalves 0.002～0.016 Fish 0.001～0.011 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2002	114/114	38/38	0.0000025～0.00088	(0.0000003)	189/189	63/63	0.0000018～0.018	(0.0000003)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000024～0.026 Fish 0.000057～0.0069 Birds 0.000010～0.00045	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	102/102	34/34	0.00086～0.67	(0.00020)					
			2003	36/36	36/36	0.000012～0.00092	(0.0000009)	186/186	62/62	0.0000036～0.019	(0.000002)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.00011～0.014 Fish 0.000043～0.0044 Birds 0.0000068～0.00037	(Bivalves 0.0000013) (Fish 0.0000013) (Birds 0.0000013)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.0064～1.6 C.S. 0.0025～0.22	(W.S. 0.00017) (C.S. 0.00017)					
			2004	38/38	38/38	0.000010～0.0019	(0.000002)	189/189	63/63	0.000004～0.036	(0.000002)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.000091～0.014 Fish 0.000068～0.0098 Birds 0.0000058～0.00024	(Bivalves 0.0000058) (Fish 0.0000058) (Birds 0.0000058)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0023～1.0 C.S. 0.0012～0.29	(W.S. 0.00019) (C.S. 0.00019)					
			2005	47/47	47/47	0.000006～0.00051	(0.000001)	189/189	63/63	0.0000033～0.044	(0.00000064)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000078～0.013 Fish 0.000042～0.0080 Birds 0.0000058～0.00034	(Bivalves 0.0000039) (Fish 0.0000039) (Birds 0.0000039)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0034～1.0 C.S. 0.0014～0.26	(W.S. 0.000054) (C.S. 0.000054)					
			2006	48/48	48/48	0.000005～0.00044	(0.000002)	192/192	64/64	0.0000009～0.013	(0.0000008)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000067～0.018 Fish 0.000056～0.0049 Birds 0.000005～0.00025	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0029～0.76 C.S. 0.0020～0.28	(W.S. 0.00004) (C.S. 0.00004)					
			2007	47/48	47/48	0.000002～0.00068	(0.000002)	191/192	64/64	0.000002～0.0075	(0.000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000059～0.019 Fish 0.00003～0.0052 Birds 0.000004～0.00023	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0033～1.1 C.S. 0.0014～0.23	(W.S. 0.00004) (C.S. 0.00004)					
			2008	48/48	48/48	0.0000029～0.00048	(0.0000006)	192/192	64/64	0.0000023～0.011	(0.0000009)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000085～0.011 Fish 0.000036～0.0035 Birds 0.000003～0.00028	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0019～0.79 C.S. 0.0015～0.20	(W.S. 0.00005) (C.S. 0.00005)					
			2009	49/49	49/49	0.0000044～0.00071	(0.0000004)	192/192	64/64	0.0000020～0.0086	(0.0000003)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000083～0.016 Fish 0.000041～0.0032 Birds 0.000004～0.00013	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0027～0.79 C.S. 0.00065～0.18	(W.S. 0.00006) (C.S. 0.00006)					
			2010	47/49	47/49	0.000004～0.00017	(0.000004)	64/64	64/64	0.000004～0.0072	(0.000002)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000067～0.015 Fish 0.000051～0.0034 Birds 0.000004～0.00018	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0022～0.70 C.S. 0.0008～0.13	(W.S. 0.0003) (C.S. 0.0003)					
			2011	49/49	49/49	0.0000038～0.00050	(0.0000006)	64/64	64/64	0.0000017～0.0045	(0.0000004)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.00016～0.0034 Fish 0.000079～0.0038 Birds 0.000006	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.0015～0.70 C.S. 0.00088～0.24	(W.S. 0.00042) (C.S. 0.00042)					
			2012	48/48	48/48	0.000010～0.00035	(0.0000006)	63/63	63/63	0.0000026～0.011	(0.000001)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.00018～0.0035 Fish 0.000098～0.0031 Birds 0.000005～0.00011	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/36 C.S. 35/36	W.S. 36/36 C.S. 35/36	W.S. 0.0029～0.65 C.S. 0.00078～0.074	(W.S. 0.00051) (C.S. 0.00051)					
			2013	48/48	48/48	0.0000029～0.00026	(0.0000009)	63/63	63/63	0.0000019～0.0054	(0.0000008)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000075～0.0020 Fish 0.000065～0.0057 Birds 0.000010～0.00014	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0015～0.58 C.S. 0.0005～0.086	(W.S. 0.0002) (C.S. 0.0002)					
			2016									Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000080～0.00050 Fish 0.000067～0.0022 Birds 0.000013～0.00011	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.0009～0.81	(0.0003)					
			2017	47/47	47/47	0.000002～0.00021	(0.000001)	61/62	61/62	0.0000017～0.0028	(0.0000016)													
			2020	46/46	46/46	0.000002～0.00012	(0.000002)	58/58	58/58	0.0000011～0.0042	(0.0000005)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.000041～0.00059 Fish 0.000039～0.0022 Birds 0.000083	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.0015～0.2	(0.00003)					
171	*trans* -Chlordane	5103-74-2	1982	0/126	0/42	—	(0.005)	86/126	34/42	0.0002～0.075	(0.0002～0.001)	Fish 90/123	Fish 29/36	Fish 0.001～0.069	(Fish 0.001)									171
			1983									Bivalves 10/20 Fish 24/50 Birds 5/10	Bivalves 2/4 Fish 6/10 Birds 1/2	Bivalves 0.010～0.018 Fish 0.001～0.011 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 11/20 Fish 26/60 Birds 5/10	Bivalves 3/4 Fish 7/12 Birds 1/2	Bivalves 0.001～0.018 Fish 0.001～0.014 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 13/20 Fish 33/60 Birds 5/10	Bivalves 3/4 Fish 7/12 Birds 1/2	Bivalves 0.001～0.022 Fish 0.001～0.010 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986													33/73	8/12	0.40～8.5	(0.4)					
					0/18	—			10/18	0.0003～0.0184		Bivalves 16/20 Fish 28/60 Birds 5/10	Bivalves 4/4 Fish 6/12 Birds 1/2	Bivalves 0.001～0.024 Fish 0.001～0.012 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987		2/20	0.0004～0.0016			13/20	0.00007～0.035		Bivalves 11/20 Fish 32/65 Birds 0/10	Bivalves 3/4 Fish 9/13 Birds 0/2	Bivalves 0.001～0.021 Fish 0.001～0.010 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1988		0/22	—			8/22	0.00016～0.0063		Bivalves 12/20 Fish 25/65 Birds 0/10	Bivalves 3/4 Fish 5/13 Birds 0/2	Bivalves 0.001～0.008 Fish 0.001～0.024 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989		0/17	—			5/17	0.00023～0.017		Bivalves 11/21 Fish 26/65 Birds 0/10	Bivalves 3/5 Fish 7/13 Birds 0/2	Bivalves 0.002～0.022 Fish 0.001～0.014 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990		0/18	—			8/18	0.00014～0.0207		Bivalves 15/25 Fish 21/65 Birds 0/10	Bivalves 3/5 Fish 6/13 Birds 0/2	Bivalves 0.002～0.023 Fish 0.001～0.016 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991		0/18	—			9/18	0.000073～0.016		Bivalves 20/30 Fish 16/65 Birds 0/10	Bivalves 4/6 Fish 4/13 Birds 0/2	Bivalves 0.001～0.011 Fish 0.001～0.013 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992		0/18	—			10/18	0.000030～0.014		Bivalves 15/30 Fish 23/70 Birds 0/10	Bivalves 3/6 Fish 5/14 Birds 0/2	Bivalves 0.001～0.017 Fish 0.001～0.011 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993		1/19	0.0004			9/19	0.000018～0.011		Bivalves 20/30 Fish 23/70 Birds 0/10	Bivalves 4/6 Fish 5/14 Birds 0/2	Bivalves 0.001～0.010 Fish 0.001～0.016 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994		0/17	—			6/17	0.000032～0.0079		Bivalves 20/30 Fish 17/70 Birds 0/5	Bivalves 4/6 Fish 5/14 Birds 0/1	Bivalves 0.001～0.010 Fish 0.001～0.008 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995		0/18	—			6/18	0.000027～0.0039		Bivalves 20/30 Fish 14/70 Birds 0/10	Bivalves 4/6 Fish 5/14 Birds 0/2	Bivalves 0.002～0.008 Fish 0.001～0.005 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996		0/18	—			10/18	0.000034～ 0.00387		Bivalves 20/30 Fish 20/70 Birds 0/10	Bivalves 4/6 Fish 4/14 Birds 0/2	Bivalves 0.001～0.005 Fish 0.001～0.011 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1997		0/18	—			9/18	0.000007～0.0065		Bivalves 20/30 Fish 11/70 Birds 0/10	Bivalves 4/6 Fish 3/14 Birds 0/2	Bivalves 0.001～0.004 Fish 0.001～0.002 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1998		0/18	—			10/18	0.00014～0.0054		Bivalves 20/30 Fish 15/70 Birds 0/10	Bivalves 4/6 Fish 3/14 Birds 0/2	Bivalves 0.001～0.004 Fish 0.002～0.004 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999						4/18	0.00026～0.0020		Bivalves 10/30 Fish 14/70 Birds 0/10	Bivalves 2/6 Fish 3/14 Birds 0/2	Bivalves 0.001～0.003 Fish 0.001～0.007 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2000						6/17	0.00022～0.0072		Bivalves 20/30 Fish 14/69 Birds 0/10	Bivalves 4/6 Fish 4/14 Birds 0/2	Bivalves 0.001～0.005 Fish 0.001～0.021 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001						6/20	0.00059～0.0047		Bivalves 15/30 Fish 17/72 Birds 0/10	Bivalves 3/6 Fish 5/15 Birds 0/2	Bivalves 0.001～0.003 Fish 0.001～0.004 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	114/114	38/38	0.0000031～0.00078	(0.0000005)	189/189	63/63	0.0000021～0.016	(0.0000006)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000033～ 0.0023 Fish 0.000020～0.0027 Birds 0.0000089～ 0.000026	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	102/102	34/34	0.00062～0.82	(0.00020)					
			2003	36/36	36/36	0.000006～0.00041	(0.000002)	186/186	62/62	0.0000024～0.013	(0.000002)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.000069～ 0.0028 Fish 0.0000096～0.0018 Birds 0.0000059～ 0.000027	(Bivalves 0.0000024) (Fish 0.0000024) (Birds 0.0000024)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.0065～ 2.0 C.S. 0.0025～ 0.29	(W.S. 0.00029) (C.S. 0.00029)					
			2004	38/38	38/38	0.000005～0.0012	(0.000002)	189/189	63/63	0.000003～0.026	(0.0000009)	Bivalves 31/31 Fish 70/70 Birds 5/10	Bivalves 7/7 Fish 14/14 Birds 1/2	Bivalves 0.000053～ 0.0028 Fish 0.000017～0.0052 Birds 0.000022～ 0.000026	(Bivalves 0.000016) (Fish 0.000016) (Birds 0.000016)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0022～ 1.3 C.S. 0.0015～ 0.36	(W.S. 0.00023) (C.S. 0.00023)					
			2005	47/47	47/47	0.000003～0.00020	(0.000001)	189/189	63/63	0.0000034～0.032	(0.00000084)	Bivalves 31/31 Fish 76/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000040～ 0.0024 Fish 0.0000098～0.0031 Birds 0.0000045～ 0.000030	(Bivalves 0.0000035) (Fish 0.0000035) (Birds 0.0000035)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0032～ 1.3 C.S. 0.0019～ 0.31	(W.S. 0.00014) (C.S. 0.00014)					
			2006	48/48	48/48	0.000004～0.00033	(0.000002)	192/192	64/64	0.0000022～0.012	(0.0000004)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000041～ 0.0028 Fish 0.000014～0.0020 Birds 0.000003～ 0.000017	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0034～ 1.2 C.S. 0.0020～ 0.35	(W.S. 0.00006) (C.S. 0.00006)					
			2007	47/48	47/48	0.0000009～0.00058	(0.0000008)	191/192	64/64	0.0000010～ 0.0075	(0.0000008)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000034～ 0.0015 Fish 0.000008～0.0021 Birds 0.000003～ 0.000019	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0038～ 1.3 C.S. 0.0015～ 0.3	(W.S. 0.00005) (C.S. 0.00005)					
			2008	48/48	48/48	0.000003～0.00042	(0.000001)	192/192	64/64	0.0000024～0.010	(0.0000008)	Bivalves 31/31 Fish 85/85 Birds 7/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000052～ 0.0013 Fish 0.000014～0.0013 Birds 0.000003～ 0.000027	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0025～ 0.99 C.S. 0.0018～ 0.25	(W.S. 0.00006) (C.S. 0.00006)					
			2009	49/49	49/49	0.000003～0.00069	(0.0000003)	192/192	64/64	0.0000021～ 0.0083	(0.0000007)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000048～ 0.016 Fish 0.000010～0.0013 Birds 0.000003～ 0.000013	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0026～ 0.96 C.S. 0.00068～ 0.21	(W.S. 0.00005) (C.S. 0.00005)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2010	44/49	44/49	0.000004～0.00031	(0.000004)	64/64	64/64	0.000004～0.0080	(0.000004)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000031～0.0055 Fish 0.000009～0.0011 Birds 0.000002～0.000010	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0020～0.82 C.S. 0.001～0.15	(W.S. 0.0004) (C.S. 0.0004)					
			2011	49/49	49/49	0.0000032～0.00047	(0.0000004)	64/64	64/64	0.0000032～0.0043	(0.0000005)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.00015～0.0029 Fish 0.000020～0.0013 Birds 0.000005	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.0014～0.81 C.S. 0.00070～0.29	(W.S. 0.00053) (C.S. 0.00053)					
			2012	48/48	48/48	0.000012～0.00030	(0.0000008)	63/63	63/63	0.0000029～0.013	(0.0000013)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.00014～0.0013 Fish 0.000019～0.0011 Birds 0.000004～0.00001	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/36 C.S. 35/36	W.S. 36/36 C.S. 35/36	W.S. 0.0028～0.78 C.S. 0.0008～0.095	(W.S. 0.0007) (C.S. 0.0007)					
			2013	48/48	48/48	0.000003～0.00020	(0.000001)	63/63	63/63	0.0000025～0.0056	(0.0000007)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000058～0.0017 Fish 0.000014～0.0027 Birds 0.000010～0.000068	(Bivalves 0.0000052) (Fish 0.0000052) (Birds 0.0000052)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0017～0.69 C.S. 0.0004～0.11	(W.S. 0.0003) (C.S. 0.0003)					
			2016									Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000056～0.00033 Fish 0.000012～0.00080 Birds 0.000007～0.000046	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0007～1.1	(0.0003)					
			2017	47/47	47/47	0.000002～0.00015	(0.000001)	62/62	62/62	0.000001～0.0030	(0.000001)													
			2020	46/46	46/46	0.000003～0.000098	(0.000002)	58/58	58/58	0.0000014～0.0045	(0.0000001)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.000025～0.00043 Fish 0.000011～0.00078 Birds 0.000034	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0015～0.23	(0.00006)					
172	Chlordecone	143-50-0	2003													0/3	0/1	－	(0.0005)					172
			2008	13/46	13/46	0.00000010～0.00000076	(0.00000005)	23/129	10/49	0.00000020～0.0000058	(0.00000016)	Bivalves 0/31 Fish 0/85 Birds 0/10	Bivalves 0/7 Fish 0/17 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.0000022) (Fish 0.0000022) (Birds 0.0000022)									
			2010	13/49	13/49	0.00000017～0.0000016	(0.00000004)	9/64	9/64	0.0000002～0.0000028	(0.0000002)	Bivalves 0/6 Fish 0/18 Birds 0/2	Bivalves 0/6 Fish 0/18 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.0000023) (Fish 0.0000023) (Birds 0.0000023)	W.S. 0/37 C.S. 0/37	W.S. 0/37 C.S. 0/37	W.S. － C.S. －	(W.S. 0.00002) (C.S. 0.00002)					
			2011	15/49	15/49	0.00000005～0.00000070	(0.00000005)	9/64	9/64	0.00000028～0.0000015	(0.0000002)	Bivalves 0/4 Fish 0/18 Birds 0/1	Bivalves 0/4 Fish 0/18 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.0000002) (Fish 0.0000002) (Birds 0.0000002)	W.S. 0/35 C.S. 0/37	W.S. 0/35 C.S. 0/37	W.S. － C.S. －	(W.S. 0.00002) (C.S. 0.00002)					
	gamma -Chlordene	See 4,5,6,7,8,8-Hexachloro-3a,4,7,7a-tetrahydro-4,7-methano-1*H* -indene																						
	Chlorfenvinphos	See 2-Chloro-1-(2,4-dichlorophenyl)vinyl diethyl phosphates																						
173	Chlorinated paraffins	63449-39-8	1979	0/51	0/17	－	(10)	24/51	10/17	0.6～10	(0.5)													173
	(C_8 - C_{32})		1980	0/120	0/40	－	(10)	31/120	13/40	0.5～8.5	(0.5)	Fish 0/108	Fish 0/28	Fish －	(Fish 0.5)									
	(Chlorination rate: 40%)		2001	2/21	1/7	0.49～0.77	(0.28)	17/21	6/7	0.042～2.0	(0.038)	Fish 0/21	Fish 0/7	Fish －	(Fish 0.0080)									
	(Chlorination rate: 70%)		2001	2/21	1/7	0.46～0.83	(0.14)	16/21	6/7	0.011～0.39	(0.011)	Fish 0/21	Fish 0/7	Fish －	(Fish 0.0037)									
173-1	Short-chain chlorinated paraffins (C_{10} - C_{13})	85535-84-8																						173-1
	(C_{10}: Cl_4 - Cl_6, C_{11} - C_{13}: Cl_4 - Cl_7)	Unknown	(2016)													19/37	19/37	0.72～4.9	(0.64*)					
	(Cl_4 - Cl_7)		(2017)													37/37	37/37	0.21～5.7	(0.18*)					
			(2018)													37/37	37/37	0.34～4.8	(0.21*)					
			(2019)													32/36	32/36	0.4～50	(0.4*)					
	(Cl_4 - Cl_8)		(2020)													37/37	37/37	0.2～3.5	(0.2*)					
			(2021)													31/35	31/35	0.4～2.2	(0.4*)					
			(2022)													14/36	14/36	0.4～3.4	(0.4*)					
			(2023)													30/35	30/35	0.6～2.7	(0.6*)					
			(2024)													30/35	30/35	0.35～6.4	(0.35*)					
	(Cl_5 - Cl_9)		(2016)									Bivalves 3/3 Fish 14/19 Birds 2/2	Bivalves 3/3 Fish 14/19 Birds 2/2	Bivalves 0.0037～0.0090 Fish 0.0031～0.030 Birds 0.0072～0.018	(Bivalves 0.0026*) (Fish 0.0026*) (Bivalves 0.0026*)									
			(2017)	1/47	1/47	0.024	(0.0039*)	17/62	17/62	0.017～0.19	(0.017*)	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 0.0019～0.021 Fish 0.0014～0.048 Birds 0.0020～0.066	(Bivalves 0.0010*) (Fish 0.0010*) (Birds 0.0010*)									
			(2018)	13/47	13/47	0.004～0.013	(0.004*)	16/61	16/61	0.012～0.073	(0.012*)	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.0022*) (Fish 0.0022*) (Birds 0.0022*)									
			(2019)	13/48	13/48	0.0016～0.078	(0.0016*)	23/61	23/61	0.0051～0.15	(0.0040*)	Bivalves 1/3 Fish 4/16 Birds 1/1	Bivalves 1/3 Fish 4/16 Birds 1/1	Bivalves 0.0017 Fish 0.0015～0.0037 Birds 0.0038	(Bivalves 0.0012*) (Fish 0.0012*) (Birds 0.0012*)									
			(2020)	5/46	5/46	0.0010～0.0078	(0.0010*)	31/58	31/58	0.0022～0.057	(0.0022*)	Bivalves 2/3 Fish 3/18 Birds 1/1	Bivalves 2/3 Fish 3/18 Birds 1/1	Bivalves 0.0028～0.0049 Fish 0.0016～0.0045 Birds 0.0014	(Bivalves 0.0010*) (Fish 0.0010*) (Birds 0.0010*)									
			(2021)	13/47	13/47	0.0019～0.015	(0.0019*)	37/60	37/60	0.0015～0.052	(0.0015*)	Bivalves 1/3 Fish 3/18 Birds 2/2	Bivalves 1/3 Fish 3/18 Birds 2/2	Bivalves 0.0026 Fish 0.0013～0.0081 Birds 0.0012～0.0048	(Bivalves 0.0009*) (Fish 0.0009*) (Birds 0.0009*)									
			(2022)	33/48	33/48	0.0009～0.0096	(0.0009*)	53/61	53/61	0.00058～0.060	(0.00057*)	Bivalves 1/3 Fish 4/18 Birds 1/2	Bivalves 1/3 Fish 4/18 Birds 1/2	Bivalves 0.0027 Fish 0.0013～0.0026 Birds 0.0016	(Bivalves 0.0012*) (Fish 0.0012*) (Birds 0.0012*)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			(2023)									Bivalves 1/2 Fish 3/18 Birds 1/2	Bivalves 1/2 Fish 3/18 Birds 1/2	Bivalves 0.0019 Fish 0.0014～0.0016 Birds 0.0048	(Bivalves 0.0014*) (Fish 0.0014*) (Birds 0.0014*)									
			(2024)									Bivalves 2/3 Fish 3/16 Birds 2/2	Bivalves 2/3 Fish 3/16 Birds 2/2	Bivalves 0.0016～ 0.0018 Fish 0.0011～0.0017 Birds 0.0014～0.0024	(Bivalves 0.0011*) (Fish 0.0011*) (Birds 0.0011*)									
173-1-1	Chlorinated decanes	Unknown	2004	0/6	0/2	—	(0.0090)	0/6	0/2	—	(0.00077)	Fish 0/5	Fish 0/2	Fish —	(Fish 0.00053)									173-1-1
	(Cl_4 - Cl_6)		2005									Bivalves 0/18 Fish 3/54	Bivalves 0/6 Fish 2/18	Bivalves — Fish 0.00020	(Bivalves 0.00043*) (Fish 0.00043*)									
			2016													24/37	24/37	0.11～0.94	(0.11)					
	(Cl_4 - Cl_7)		2017													37/37	37/37	0.07～1.5	(0.05)					
			2018													37/37	37/37	0.13～1.7	(0.06)					
			2019													36/36	36/36	0.1～1.5	(0.1)					
	(Cl_4 - Cl_8)		2020													37/37	37/37	0.06～0.56	(0.05)					
			2021													35/35	35/35	0.1～0.9	(0.1)					
			2022													36/36	36/36	0.04～0.49	(0.04)					
			2023													35/35	35/35	0.08～0.94	(0.04)					
			2024													35/35	35/35	0.05～0.77	(0.05)					
	(Cl_5)		2005	0/24	0/8	—	(0.0084)	0/12	0/4	—	(0.0014)													
	(Cl_5 - Cl_9)		2016									Bivalves 2/3 Fish 13/19 Birds 2/2	Bivalves 2/3 Fish 13/19 Birds 2/2	Bivalves 0.0007～ 0.0022 Fish 0.0005～0.0028 Birds 0.0008～0.0013	(Bivalves 0.0005) (Fish 0.0005) (Birds 0.0005)									
			2017	1/47	1/47	0.0016	(0.0011)	12/62	12/62	0.0047～0.017	(0.0040)	Bivalves 2/3 Fish 16/19 Birds 1/2	Bivalves 2/3 Fish 16/19 Birds 1/2	Bivalves 0.0017～ 0.0018 Fish 0.0002～0.0021 Birds 0.0016	(Bivalves 0.0002) (Fish 0.0002) (Birds 0.0002)									
			2018	8/47	8/47	0.0004～0.0016	(0.0004)	7/61	7/61	0.002～0.007	(0.002)	Bivalves 2/3 Fish 1/18 Birds 1/2	Bivalves 2/3 Fish 1/18 Birds 1/2	Bivalves 0.0004 Fish 0.0008 Birds 0.0006	(Bivalves 0.0004) (Fish 0.0004) (Birds 0.0004)									
			2019	17/48	17/48	0.0002～0.0023	(0.0002)	8/61	8/61	0.0011～0.0026	(0.0010)	Bivalves 0/3 Fish 5/16 Birds 1/1	Bivalves 0/3 Fish 5/16 Birds 1/1	Bivalves — Fish 0.0003～0.0007 Birds 0.0006	(Bivalves 0.0003) (Fish 0.0003) (Birds 0.0003)									
			2020	16/46	16/46	0.00021～0.0018	(0.0002)	21/58	21/58	0.0004～0.0060	(0.0004)	Bivalves 2/3 Fish 3/18 Birds 0/1	Bivalves 2/3 Fish 3/18 Birds 0/1	Bivalves 0.0007 Fish 0.0005 Birds —	(Bivalves 0.0003) (Fish 0.0003) (Birds 0.0003)									
			2021	42/47	42/47	0.0003～0.0011	(0.0003)	30/60	30/60	0.0003～0.0043	(0.0003)	Bivalves 2/3 Fish 4/18 Birds 2/2	Bivalves 2/3 Fish 4/18 Birds 2/2	Bivalves 0.0003～ 0.0005 Fish 0.0002～0.0007 Birds 0.0003～0.0006	(Bivalves 0.0002) (Fish 0.0002) (Birds 0.0002)									
			2022	47/48	47/48	0.0001～0.0011	(0.0001)	48/61	48/61	0.00007～0.0065	(0.00007)	Bivalves 1/3 Fish 6/18 Birds 1/2	Bivalves 1/3 Fish 6/18 Birds 1/2	Bivalves 0.0003 Fish 0.0002～0.0004 Birds 0.0002	(Bivalves 0.0002) (Fish 0.0002) (Birds 0.0002)									
			2023									Bivalves 1/2 Fish 6/18 Birds 2/2	Bivalves 1/2 Fish 6/18 Birds 2/2	Bivalves 0.00015 Fish 0.00015～0.00027 Birds 0.00041～0.00061	(Bivalves 0.00015) (Fish 0.00015) (Birds 0.00015)									
			2024									Bivalves 1/3 Fish 2/16 Birds 1/2	Bivalves 1/3 Fish 2/16 Birds 1/2	Bivalves 0.00028 Fish 0.00024～0.00029 Birds 0.0002	(Bivalves 0.0002) (Fish 0.0002) (Birds 0.0002)									
173-1-2	Chlorinated undecanes	Unknown	2004	0/6	0/2	—	(0.023)	0/6	0/2	—	(0.0030)	Fish 0/5	Fish 0/2	Fish —	(Fish 0.0015)									173-1-2
	(Cl_4 - Cl_7)		2016													20/37	20/37	0.30～3.2	(0.24)					
			2017													37/37	37/37	0.09～2.3	(0.06)					
			2018													37/37	37/37	0.10～2.6	(0.04)					
			2019													36/36	36/36	0.1～2.3	(0.1)					
	(Cl_4 - Cl_8)		2020													37/37	37/37	0.05～1.9	(0.05)					
			2021													34/35	34/35	0.08～0.85	(0.08)					
			2022													22/36	22/36	0.10～2.4	(0.10)					
			2023													33/35	33/35	0.19～1.3	(0.19)					
			2024													26/35	26/35	0.16～4.3	(0.13)					
	(Cl_5 - Cl_7)		2005									Bivalves 3/18 Fish 6/54	Bivalves 1/6 Fish 2/18	Bivalves 0.00004～ 0.00009 Fish 0.00008～0.00048	(Bivalves 0.00014*) (Fish 0.00014*)									
	(Cl_5 - Cl_9)		2016									Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.002～0.006 Fish 0.001～0.015 Birds 0.003～0.008	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2017	13/47	13/47	0.0005～0.0031	(0.0005)	19/62	19/62	0.0040～0.037	(0.0040)	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 0.0003～0.011 Fish 0.0003～0.024 Birds 0.0008～0.031	(Bivalves 0.0003) (Fish 0.0003) (Birds 0.0003)									
			2018	6/47	6/47	0.0008～0.0035	(0.0008)	7/61	7/61	0.005～0.013	(0.005)	Bivalves 0/3 Fish 1/18 Birds 0/2	Bivalves 0/3 Fish 1/18 Birds 0/2	Bivalves — Fish 0.0007 Birds —	(Bivalves 0.0007) (Fish 0.0007) (Birds 0.0007)									
			2019	19/48	19/48	0.0005～0.0050	(0.0005)	22/61	22/61	0.0010～0.0059	(0.0010)	Bivalves 1/3 Fish 11/16 Birds 1/1	Bivalves 1/3 Fish 11/16 Birds 1/1	Bivalves 0.0006 Fish 0.0002～0.0011 Birds 0.0014	(Bivalves 0.0002) (Fish 0.0002) (Birds 0.0002)									
			2020	4/46	4/46	0.00044～0.0024	(0.0003)	25/58	25/58	0.0005～0.0069	(0.0005)	Bivalves 2/3 Fish 4/18 Birds 1/1	Bivalves 2/3 Fish 4/18 Birds 1/1	Bivalves 0.0013～ 0.0018 Fish 0.0009～0.0014 Birds 0.0011	(Bivalves 0.0003) (Fish 0.0003) (Birds 0.0003)									
			2021	26/47	26/47	0.0003～0.0012	(0.0003)	28/60	28/60	0.0004～0.0070	(0.0004)	Bivalves 1/3 Fish 4/18 Birds 2/2	Bivalves 1/3 Fish 4/18 Birds 2/2	Bivalves 0.0008 Fish 0.0003～0.0010 Birds 0.0004～0.0023	(Bivalves 0.0003) (Fish 0.0003) (Birds 0.0003)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2022	37/48	37/48	0.0003～0.0022	(0.0003)	57/61	57/61	0.0001～0.016	(0.0001)	Bivalves 1/3 Fish 7/18 Birds 0/2	Bivalves 1/3 Fish 7/18 Birds 0/2	Bivalves 0.0005 Fish 0.0003～0.0007 Birds －	(Bivalves 0.0003) (Fish 0.0003) (Birds 0.0003)									
			2023									Bivalves 0/2 Fish 0/18 Birds 1/2	Bivalves 0/2 Fish 0/18 Birds 1/2	Bivalves － Fish － Birds 0.0012	(Bivalves 0.00050) (Fish 0.00050) (Birds 0.00050)									
			2024									Bivalves 3/3 Fish 3/16 Birds 2/2	Bivalves 3/3 Fish 3/16 Birds 2/2	Bivalves 0.00033～0.00049 Fish 0.0003～0.00055 Birds 0.00032～0.00059	(Bivalves 0.0003) (Fish 0.0003) (Birds 0.0003)									
	(Cl_6)		2005	0/24	0/8	－	(0.0099)	0/12	0/4	－	(0.00085)													
173-1-3	Chlorinated dodecanes	Unknown	2004	0/6	0/2	－	(0.0086)	0/6	0/2	－	(0.00034)	Fish 0/5	Fish 0/2	Fish －	(Fish 0.00020)									173-1-3
	(Cl_4 - Cl_7)		2016													7/37	7/37	0.18～0.74	(0.17)					
			2017													37/37	37/37	0.03～0.73	(0.03)					
			2018													37/37	37/37	0.06～0.88	(0.04)					
			2019													23/36	23/36	0.11～1.6	(0.09)					
	(Cl_4 - Cl_8)		2020													29/37	29/37	0.05～0.64	(0.05)					
			2021													27/35	27/35	0.09～0.37	(0.08)					
			2022													11/36	11/36	0.12～0.43	(0.12)					
			2023													18/35	18/35	0.21～0.52	(0.21)					
			2024													24/35	24/35	0.12～0.91	(0.12)					
	(Cl_5 - Cl_7)		2005									Bivalves 0/18 Fish 10/54	Bivalves 0/6 Fish 6/18	Bivalves － Fish 0.00002～0.00040	(Bivalves 0.00014*) (Fish 0.00014*)									
	(Cl_5 - Cl_9)		2016									Bivalves 3/3 Fish 17/19 Birds 2/2	Bivalves 3/3 Fish 17/19 Birds 2/2	Bivalves 0.0011～0.0018 Fish 0.0008～0.0087 Birds 0.0022～0.0066	(Bivalves 0.0007) (Fish 0.0007) (Birds 0.0007)									
			2017	4/47	4/47	0.0011～0.010	(0.0011)	19/62	19/62	0.0042～0.044	(0.0040)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.0013～0.0047 Fish 0.0005～0.019 Birds 0.0012～0.025	(Bivalves 0.0003) (Fish 0.0003) (Birds 0.0003)									
			2018	16/47	16/47	0.001～0.003	(0.001)	28/61	28/61	0.002～0.038	(0.002)	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.0006) (Fish 0.0006) (Birds 0.0006)									
			2019	20/48	20/48	0.0004～0.034	(0.0004)	27/61	27/61	0.0010～0.083	(0.0010)	Bivalves 0/3 Fish 2/16 Birds 1/1	Bivalves 0/3 Fish 2/16 Birds 1/1	Bivalves － Fish 0.0005～0.0009 Birds 0.0005	(Bivalves 0.0005) (Fish 0.0005) (Birds 0.0005)									
			2020	4/46	4/46	0.00079～0.0026	(0.0003)	31/58	31/58	0.0011～0.018	(0.0008)	Bivalves 2/3 Fish 2/18 Birds 0/1	Bivalves 2/3 Fish 2/18 Birds 0/1	Bivalves 0.0005～0.0007 Fish 0.0006～0.0014 Birds －	(Bivalves 0.0002) (Fish 0.0002) (Birds 0.0002)									
			2021	13/47	13/47	0.0006～0.0049	(0.0005)	44/60	44/60	0.0004～0.012	(0.0004)	Bivalves 1/3 Fish 3/18 Birds 1/2	Bivalves 1/3 Fish 3/18 Birds 1/2	Bivalves 0.0004 Fish 0.0002～0.0003 Birds 0.0010	(Bivalves 0.0002) (Fish 0.0002) (Birds 0.0002)									
			2022	17/48	17/48	0.0003～0.0024	(0.0003)	53/61	53/61	0.0002～0.019	(0.0002)	Bivalves 2/3 Fish 13/18 Birds 1/2	Bivalves 2/3 Fish 13/18 Birds 1/2	Bivalves 0.0003～0.0009 Fish 0.0003～0.0008 Birds 0.0005	(Bivalves 0.0003) (Fish 0.0003) (Birds 0.0003)									
			2023									Bivalves 2/2 Fish 13/18 Birds 2/2	Bivalves 2/2 Fish 13/18 Birds 2/2	Bivalves 0.00036～0.0010 Fish 0.00032～0.00073 Birds 0.0007～0.0013	(Bivalves 0.00030) (Fish 0.00030) (Birds 0.00030)									
			2024									Bivalves 2/3 Fish 5/16 Birds 2/2	Bivalves 2/3 Fish 5/16 Birds 2/2	Bivalves 0.0004～0.00054 Fish 0.00034～0.00051 Birds 0.00036～0.00066	(Bivalves 0.0003) (Fish 0.0003) (Birds 0.0003)									
	(Cl_6)		2005	0/24	0/8	－	(0.0073)	0/12	0/4	－	(0.00080)													
173-1-4	Chlorinated tridecanes	Unknown	2004	0/6	0/2	－	(0.0055)	0/6	0/2	－	(0.00092)	Fish 0/5	Fish 0/2	Fish －	(Fish 0.00056)									173-1-4
	(Cl_4 - Cl_7)		2016													13/37	13/37	0.13～0.51	(0.12)					
			2017													35/37	35/37	0.04～1.6	(0.04)					
			2018													26/37	26/37	0.07～0.47	(0.07)					
			2019													19/36	19/36	0.09～1.6	(0.08)					
	(Cl_4 - Cl_8)		2020													23/37	23/37	0.04～0.36	(0.04)					
			2021													26/35	26/35	0.1～0.2	(0.1)					
			2022													3/36	3/36	0.12～0.19	(0.11)					
			2023													15/35	15/35	0.13～0.25	(0.13)					
			2024													35/35	35/35	0.10～0.64	(0.05)					
	(Cl_5 - Cl_7)		2005									Bivalves 2/18 Fish 16/54	Bivalves 2/6 Fish 10/18	Bivalves 0.00006～0.00007 Fish 0.00005～0.00070	(Bivalves 0.00029*) (Fish 0.00029*)									
	(Cl_5 - Cl_9)		2016									Bivalves 3/3 Fish 17/19 Birds 2/2	Bivalves 3/3 Fish 17/19 Birds 2/2	Bivalves 0.0005～0.0009 Fish 0.0004～0.0049 Birds 0.0014～0.0015	(Bivalves 0.0004) (Fish 0.0004) (Birds 0.0004)									
			2017	7/47	7/47	0.0012～0.010	(0.0012)	18/62	18/62	0.0059～0.094	(0.0050)	Bivalves 3/3 Fish 8/19 Birds 1/2	Bivalves 3/3 Fish 8/19 Birds 1/2	Bivalves 0.0003～0.0031 Fish 0.0004～0.0041 Birds 0.0081	(Bivalves 0.0002) (Fish 0.0002) (Birds 0.0002)									
			2018	18/47	18/47	0.0015～0.011	(0.0015)	24/61	24/61	0.003～0.036	(0.003)	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.0005) (Fish 0.0005) (Birds 0.0005)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2019	17/48	17/48	0.0005～0.038	(0.0005)	39/61	39/61	0.0011～0.06	(0.0010)	Bivalves 3/3 Fish 11/16 Birds 1/1	Bivalves 3/3 Fish 11/16 Birds 1/1	Bivalves 0.0003～0.0011 Fish 0.0002～0.0013 Birds 0.0013	(Bivalves 0.0002) (Fish 0.0002) (Birds 0.0002)									
			2020	8/46	8/46	0.0002～0.0020	(0.0002)	40/58	40/58	0.0006～0.026	(0.0005)	Bivalves 2/3 Fish 2/18 Birds 1/1	Bivalves 2/3 Fish 2/18 Birds 1/1	Bivalves 0.0003～0.0017 Fish 0.0003～0.0019 Birds 0.0003	(Bivalves 0.0002) (Fish 0.0002) (Birds 0.0002)									
			2021	7/47	7/47	0.0009～0.0086	(0.0008)	47/60	47/60	0.0004～0.031	(0.0004)	Bivalves 1/3 Fish 2/18 Birds 2/2	Bivalves 1/3 Fish 2/18 Birds 2/2	Bivalves 0.0009 Fish 0.0006～0.0070 Birds 0.0005～0.0009	(Bivalves 0.0002) (Fish 0.0002) (Birds 0.0002)									
			2022	47/48	47/48	0.0002～0.0039	(0.0002)	54/61	54/61	0.0002～0.028	(0.0002)	Bivalves 2/3 Fish 7/18 Birds 1/2	Bivalves 2/3 Fish 7/18 Birds 1/2	Bivalves 0.0005～0.0010 Fish 0.0004～0.0007 Birds 0.0009	(Bivalves 0.0004) (Fish 0.0004) (Birds 0.0004)									
			2023									Bivalves 1/2 Fish 7/18 Birds 1/2	Bivalves 1/2 Fish 7/18 Birds 1/2	Bivalves 0.00074 Fish 0.00054～0.00073 Birds 0.0017	(Bivalves 0.00050) (Fish 0.00050) (Birds 0.00050)									
			2024									Bivalves 2/3 Fish 7/16 Birds 2/2	Bivalves 2/3 Fish 7/16 Birds 2/2	Bivalves 0.00062～0.00064 Fish 0.00032～0.00057 Birds 0.00054～0.0011	(Bivalves 0.0003) (Fish 0.0003) (Birds 0.0003)									
	(Cl_6)		2005	0/24	0/8	—	(0.014)	0/12	0/4	—	(0.00051)													
173-2	Medium-chain chlorinated paraffins (C_{14} - C_{17})	85535-85-9																						173-2
	(Cl_5 - Cl_8)		(2018)	3/23	3/23	0.02～0.14	(0.020*)	47/67	18/23	0.029～60	(0.027*)													
173-2-1	Chlorinated tetradecanes																							173-2-1
	(Cl_4 - Cl_9)		(2018)	8/23	8/23	0.0066～0.047	(0.0055*)	49/67	19/23	0.0096～3.1	(0.0075*)													
	(Cl_5 - Cl_8)		2005	0/12	0/4	—	(0.071*)	12/12	4/4	0.019～0.39	(0.0030*)	Bivalves 17/18 Fish 45/57	Bivalves 6/6 Fish 17/19	Bivalves 0.00030～0.0085 Fish 0.00024～0.16	(Bivalves 0.0014*) (Fish 0.0015*)									
173-2-1-1	Tetrachlorotetradecanes		2018	1/23	1/23	0.00096	(0.00094)	27/67	12/23	0.0011～0.042	(0.0011)													173-2-1-1
173-2-1-2	Pentachlorotetradecanes		2018	16/23	16/23	0.0010～0.010	(0.00091)	52/67	20/23	0.0018～0.56	(0.0018)													173-2-1-2
173-2-1-3	Hexachlorotetradecanes		2018	16/23	16/23	0.0013～0.018	(0.0011)	52/67	19/23	0.0026～1.2	(0.002)													173-2-1-3
173-2-1-4	Heptachlorotetradecanes		2018	16/23	16/23	0.00091～0.012	(0.00087)	54/67	20/23	0.00099～0.92	(0.00099)													173-2-1-4
173-2-1-5	Octachlorotetradecanes		2018	9/23	9/23	0.00061～0.0039	(0.00056)	49/67	19/23	0.00096～0.27	(0.00093)													173-2-1-5
173-2-1-6	Nonachlorotetradecanes		2018	1/23	1/23	0.0012	(0.0011)	33/67	13/23	0.0012～0.052	(0.0012)													173-2-1-6
173-2-2	Chlorinated pentadecanes																							173-2-2
	(Cl_4 - Cl_9)		(2018)	5/23	5/23	0.005～0.037	(0.0046*)	51/67	19/23	0.0050～1.8	(0.0047*)													
	(Cl_5 - Cl_9)		2005									Bivalves 18/18 Fish 53/54	Bivalves 6/6 Fish 18/18	Bivalves 0.00026～0.0033 Fish 0.000026～0.084	(Bivalves 0.00044*) (Fish 0.00044*)									
173-2-2-1	Tetrachloropentadecanes		2018	2/23	2/23	0.0010	(0.00079)	30/67	12/23	0.0009～0.046	(0.0009)													173-2-2-1
173-2-2-2	Pentachloropentadecanes		2018	5/23	5/23	0.0011～0.0069	(0.0010)	52/67	19/23	0.00085～0.31	(0.00082)													173-2-2-2
173-2-2-3	Hexachloropentadecanes		2018	12/23	12/23	0.0008～0.013	(0.00067)	52/67	20/23	0.0018～0.65	(0.00084)													173-2-2-3
173-2-2-4	Heptachloropentadecanes		2018	11/23	11/23	0.00078～0.011	(0.00072)	52/67	20/23	0.0014～0.56	(0.001)													173-2-2-4
173-2-2-5	Octachloropentadecanes		2018	6/23	6/23	0.00054～0.0045	(0.00051)	49/67	19/23	0.00098～0.21	(0.00074)													173-2-2-5
173-2-2-6	Nonachloropentadecanes		2018	1/23	1/23	0.0013	(0.00092)	40/67	16/23	0.00073～0.051	(0.00068)													173-2-2-6
173-2-3	Chlorinated hecadecanes																							173-2-3
	(Cl_4 - Cl_9)		(2018)	2/23	2/23	0.014～0.03	(0.0058*)	40/67	15/23	0.0090～0.75	(0.0078*)													
173-2-3-1	Tetrachlorohexadecanes		2018	2/23	2/23	0.0021～0.0028	(0.0014)	42/67	16/23	0.0013～0.17	(0.0013)													173-2-3-1
173-2-3-2	Pentachlorohexadecanes		2018	2/23	2/23	0.0043～0.0046	(0.00097)	35/67	15/23	0.0020～0.17	(0.0020)													173-2-3-2
173-2-3-3	Hexachlorohexadecanes		2018	3/23	3/23	0.00099～0.0096	(0.00097)	48/67	18/23	0.0011～0.22	(0.00099)													173-2-3-3
173-2-3-4	Heptachlorohexadecanes		2018	4/23	4/23	0.00098～0.0084	(0.00082)	44/67	17/23	0.0014～0.17	(0.0013)													173-2-3-4
173-2-3-5	Octachlorohexadecanes		2018	1/23	1/23	0.0040	(0.00095)	41/67	15/23	0.0012～0.067	(0.0012)													173-2-3-5
173-2-3-6	Nonachlorohexadecanes		2018	1/23	1/23	0.00098	(0.00064)	30/67	12/23	0.0012～0.016	(0.0010)													173-2-3-6
173-2-4	Chlorinated heptadecanes																							173-2-4
	(Cl_4 - Cl_9)		(2018)	2/23	2/23	0.0070～0.022	(0.0039*)	36/67	15/23	0.0059～0.48	(0.0057*)													
173-2-4-1	Tetrachloroheptadecanes		2018	2/23	2/23	0.0017～0.0025	(0.00077)	35/67	14/23	0.0010～0.099	(0.00099)													173-2-4-1
173-2-4-2	Pentachloroheptadecanes		2018	2/23	2/23	0.0022～0.0039	(0.00072)	42/67	16/23	0.0010～0.11	(0.0010)													173-2-4-2
173-2-4-3	Hexachloroheptadecanes		2018	3/23	3/23	0.00087～0.0066	(0.00082)	43/67	17/23	0.0013～0.13	(0.0013)													173-2-4-3
173-2-4-4	Heptachloroheptadecanes		2018	5/23	5/23	0.00066～0.0055	(0.00061)	39/67	15/23	0.0010～0.096	(0.00097)													173-2-4-4
173-2-4-5	Octachloroheptadecanes		2018	1/23	1/23	0.0030	(0.00062)	37/67	15/23	0.00092～0.043	(0.00083)													173-2-4-5
173-2-4-6	Nonachloroheptadecanes		2018	1/23	1/23	0.00076	(0.00035)	30/67	13/23	0.00064～0.01	(0.00051)													173-2-4-6
174	Chlormadinone	1961-77-9	2013	0/18	0/18	—	(0.0000038)																	174
175	Chlormadinone acetate	302-22-7	2013	13/18	13/18	0.000014～0.00076	(0.0000033)																	175
176	Chlornitrofen	1836-77-7	1978	0/18	0/6	—	(0.006～0.01)	0/18	0/6	—	(0.0003～0.003)													176
			1982	5/54	2/18	0.001～0.003	(0.001～0.2)	8/54	3/18	0.0007～0.006	(0.0001～0.009)													
			1990	0/17	0/17	—	(0.19)	1/17	1/17	0.046	(0.012)	Fish 4/17	Fish 4/17	Fish 0.019～0.30	(Fish 0.006)									
			1991	0/57	0/19	—	(0.35)	0/51	0/17	—	(0.043)					0/54	0/18	—	(21)					
								0/17	0/17	—	(0.012)													
177	Chlornitrofen-amino	26306-61-6	1990	0/17	0/17	—	(0.4)	14/17	14/17	0.014～0.23	(0.014)	Fish 4/17	Fish 4/17	Fish 0.017～0.045	(Fish 0.011)									177
			1991					11/17	11/17	0.016～0.29	(0.014)													
178	Chloroacetaldehyde	107-20-0	1980	0/33	0/11	—	(1.5～15)	0/33	0/11	—	(0.03～0.3)													178
179	Chloroacetic acid	79-11-8	1984	1/21	1/7	0.64	(0.2～1)	3/21	1/7	0.0016～0.0033	(0.001～0.01)													179
			2018	3/24	3/24	0.032～0.10	(0.029)																	
	Chloroacetone	See 1-Chloro-2-propanone																						
180	*o* -Chloroaniline	95-51-2	1976	12/120	6/35	0.028～0.35	(0.02～100)	29/113	13/35	0.0007～0.098	(0.0003～1.0)	Fish 0/2	Fish 0/1	Fish —	(Fish 1.0)									180
			1990	7/78	4/26	0.02～0.56	(0.02)	25/64	10/22	0.0032～0.028	(0.003)	Fish 2/72	Fish 1/24	Fish 0.0012～0.0025	(Fish 0.001)	0/51	0/17	—	(150)					
			1998	0/144	0/48	—	(0.09)	17/133	7/45	0.0051～0.056	(0.005)													
			2003	0/114	0/38	—	(0.025)																	
			2011	1/28	1/28	0.072～0.072	(0.021)																	
181	*m* -Chloroaniline	108-42-9	1976	10/128	4/37	0.013～0.34	(0.1～100)	34/121	13/37	0.0003～0.067	(0.0001～1.2)	Fish 0/2	Fish 0/1	Fish —	(Fish 1.0)									181
			1990	3/45	2/15	0.029～0.06	(0.02)	24/43	10/15	0.003～0.043	(0.003)	Fish 0/51	Fish 0/17	Fish —	(Fish 0.002)	0/51	0/17	—	(150)					
			1998	0/153	0/51	—	(0.11)	11/130	5/44	0.0046～0.022	(0.0045)													
			2005	0/15	0/5	—	(0.051)	5/18	3/6	0.0037～0.0067	(0.0036)													
			2011	4/25	4/25	0.0039～0.0079	(0.0019)																	

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
182	*p* -Chloroaniline	106-47-8	1976	9/128	5/37	0.024～0.39	(0.02～100)	39/121	13/37	0.001～0.27	(0.0005～1.2)	Fish 0/2	Fish 0/1	Fish －	(Fish 1.0)									182
			1990	0/54	0/18	－	(0.05)	15/42	7/15	0.0089～0.05	(0.008)	Fish 0/57	Fish 0/19	Fish －	(Fish 0.005)	0/51	0/17	－	(250)					
			1998	0/135	0/45	－	(0.07)	24/135	9/45	0.0053～0.020	(0.005)													
			2011	5/28	5/28	0.0051～0.02	(0.0051)																	
183	2-Chloro-9,10-anthracenedione	131-09-9	1985	0/33	0/11	－	(1)	0/27	0/9	－	(0.05)													183
184	1-Chloroanthraquinone	82-44-0	1985	0/33	0/11	－	(1)	0/27	0/9	－	(0.05)													184
	2-Chloroanthraquinone	See 2-Chloro-9,10-anthracenedione																						
185	2-Chlorobenzaldehyde	89-98-5	1984	0/27	0/9	－	(0.2～1)	0/27	0/9	－	(0.003～0.023)													185
186	3-Chlorobenzaldehyde	587-04-2	1984	0/27	0/9	－	(0.4～1)	0/27	0/9	－	(0.01～0.03)													186
187	4-Chlorobenzaldehyde	104-88-1	1984	0/27	0/9	－	(0.2～1)	0/27	0/9	－	(0.005～0.03)													187
	o -Chlorobenzaldehyde	See 2-Chlorobenzaldehyde																						
	m -Chlorobenzaldehyde	See 3-Chlorobenzaldehyde																						
	p -Chlorobenzaldehyde	See 4-Chlorobenzaldehyde																						
188	Chlorobenzene	108-90-7	1976	0/68	0/19	－	(40～200)	0/61	0/19	－	(0.4～4)	Fish 0/2	Fish 0/1	Fish －	(Fish 1.0)									188
			1983													91/91	12/12	1～22	(1)					
			1997	0/36	0/12	－	(0.3)	0/36	0/12	－	(0.019)													
			1998													24/32	10/11	20～160	(20)					
			2005	0/27	0/9	－	(0.002)																	
			2006					0/18	0/6	－	(0.0003)													
			2009									Bivalves & Fish 5/39	Bivalves & Fish 3/13	Bivalves & Fish 0.000056～0.0010	(Bivalves & Fish 0.000045)									
			2014	12/20	12/20	0.00054～0.37	(0.00017)									12/45	6/15	44～580	(39)					
189	Chlorobenzilate	510-15-6	1987	0/75	0/25	－	(1)	0/66	0/22	－	(0.06)	Fish 0/75	Fish 0/24	Fish －	(Fish 0.03)									189
190	2-Chlorobenzoic acid	118-91-2	1985	0/33	0/11	－	(3)	0/33	0/11	－	(0.02)													190
	o -Chlorobenzoic acid	See 2-Chlorobenzoic acid																						
191	2-(4-{2-[(4-Chlorobenzoyl)amino] ethyl}phenoxy)-2-methylpropanoic acid	41859-67-0	2018	11/18	11/18	0.0068～0.096	(0.00099)																	191
192	*S* -(4-chlorobenzyl) *N* ,*N* -diethylthiocarbamate (synonym: Thiobencarb or Benthiocarb)	28249-77-6	1992	0/165	0/55	－	(0.2)	3/165	1/55	0.062～0.1	(0.044)	Fish 0/150	Fish 0/50	Fish －	(Fish 0.014)	1/46	1/15	8.4	(3)					192
			2006	0/39	0/13	－	(0.006)																	
	2-Chloro-4,6-bis(ethylamino)-*s* -triazine	See 2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine																						
193	2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine (synonym: Simazine or CAT)	122-34-9	1980	0/18	0/6	－	(2)	0/18	0/6	－	(0.1)													193
			1991	0/57	0/19	－	(0.2)	0/54	0/18	－	(0.048)													
194	1-Chlorobutane	109-69-3	1997	0/36	0/12	－	(0.01)	0/36	0/12	－	(0.028)					2/57	1/19	210～290	(200)					194
			1998													19/37	9/13	38～1,400	(37)					
195	3-Chloro-*N* -(3-chloro-5-trifluoromethyl-2-pyridyl)-*alpha* ,*alpha* ,*alpha* -trifluoro-2,6-dinitro-*p* -toluidine (synonym: Fluazinam)	79622-59-6	2004	0/45	0/15	－	(0.0092)																	195
	4-Chloro-*o* -cresol	See 4-Chloro-2-methylphenol																						
196	6-Chloro-*m* -cresol	615-74-7	1984	0/24	0/8	－	(0.025～0.1)	0/24	0/8	－	(0.0015～0.003)													196
197	6-chloro-*o* -cresol	87-64-9	1984	0/24	0/8	－	(0.015～0.09)	0/24	0/8	－	(0.001～0.002)													197
198	Chlorocyclohexane	542-18-7	1977	0/6	0/2	－	(0.02～10)	0/6	0/2	－	(0.0001～2)													198
	Chlorodibromomethane	See Dibromochloromethane																						
	3-Chloro-1,2-dibromopropane	See 1,2-Dibromo-3-chloropropane																						
199	5-Chloro-2-(2,4-dichlorophenoxy)phenol (synonym: Triclosan)	3380-34-5	1995	0/33	0/11	－	(0.05)	19/24	7/8	0.005～0.079	(0.0046)	Fish 0/33	Fish 0/11	Fish －	(Fish 0.003)									199
			2014	16/16	16/16	0.00076～0.093	(0.00013)																	
200	2-Chloro-1-(2,4-dichlorophenyl)vinyl diethyl phosphates (synonym: CVPlankton or Chlorfenvinphos)	470-90-6	1988	0/72	0/24	－	(0.2)	6/57	2/19	0.006～0.02	(0.006)	Fish 0/72	Fish 0/21	Fish －	(Fish 0.005)	0/72	0/12	－	(20)					200
200-1	2-Chloro-1-(2,4-dichlorophenyl)vinyl diethyl phosphate (*alpha* -isomer)	470-90-6	1993	0/51	0/17	－	(0.37)	0/51	0/17	－	(0.063)	Fish 0/51	Fish 0/17	Fish －	(Fish 0.046)									200-1
200-2	2-Chloro-1-(2,4-dichlorophenyl)vinyl diethyl phosphate (*beta* -isomer)	470-90-6	1993	0/51	0/17	－	(0.15)	0/51	0/17	－	(0.03)	Fish 0/51	Fish 0/17	Fish －	(Fish 0.039)									200-2
201	2-Chloro-2,6-diethyl-*N* -(methoxymetyl)acetanilide (synonym: Alachlor)	15972-60-8	2007	3/84	2/12	0.019～0.031	(0.011)	0/30	0/12	－	(0.0006)													201
202	2-Chloro-2',6'-diethyl-*N* -(2-propoxyethyl)acetanilide (synonym: Pretalachlor)	51218-49-6	2005	29/36	4/4	0.0053～1.7	(0.0035)					Fish 0/15	Fish 0/5	Fish －	(Fish 0.0011)									202
203	1-Chloro-1,1-difluoroethane (synonym: HCFC-142b)	75-68-3	2003													60/60	20/20	54～1,100	(3)					203
204	Chlorodifluoromethane (synonym: HCFC-22)	75-45-6	2002													45/45	15/15	340～4,600	(6)					204
			2003													57/57	19/19	550～4,500	(6)					
205	3-(3-Chloro-5-[3'-(dimethylamino) propyl)]-10,11-dihydro-5*H* -dibenzo [*b* ,*f*]azepin	303-49-1	2018	8/16	8/16	0.000021～0.0015	(0.000020)																	205
206	1-Chloro-2,4-dinitrobenzene	97-00-7	1978	0/24	0/8	－	(0.2～0.5)	0/15	0/5	－	(0.007～0.0167)													206
			2003	0/114	0/38	－	(0.01)																	
	1-Chloro-2,3-epoxypropane	See Epichlorohydrin																						
	3-Chloro-1,2-epoxypropane	See Epichlorohydrin																						
207	Chloroethane	75-00-3	1977	0/3	0/1	－	(0.04)	0/3	0/1	－	(0.0002)													207
			1979													8/48	3/17	43～20,000	(6～3,000)					
			1980													7/117	4/22	68～600	(45～3,000)					
			1983													56/102	10/12	12～776	(11～50)					
			2001													46/48	16/16	14～540	(6.0)					
			2015	9/20	9/20	0.0023～0.019	(0.0017)																	
208	Chloroethene (synonym: Vinyl chloride)	75-01-4	1975	5/100	1/20	100	(50～40,000)																	208
			1979													7/45	3/16	22～4,000	(2～2,000)					
			1980													10/117	3/22	20～1,350	(20～2,000)					
			1997	12/129	5/43	0.014～0.25	(0.011)	5/120	3/40	0.0038～0.0050	(0.0035)					40/53	15/18	15～2,000	(15)					
			1998													31/36	12/13	16～1,300	(14)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
209	5-Chloro-*N*-{2-[4-(2-ethoxyethyl)-2,3-dimethylphenoxy]ethyl}-6-ethylpyrimidine-4-amine (synonym: Pyrimidifen)	105779-78-0	2006	0/21	0/7	—	(0.07)																	209
			2007													0/15	0/5	—	(1.8)					
210	2-Chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine (synonym: Atrazine)	1912-24-9	1991	0/57	0/19	—	(0.13)	0/51	0/17	—	(0.027)													210
			2006									Bivalves 0/31 Fish 0/80 Birds 0/10	Bivalves 0/7 Fish 0/16 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.00038) (Fish 0.00038) (Birds 0.00038)									
			2008	19/48	19/48	0.00034～0.0034	(0.00029)	12/173	10/59	0.00014～0.0041	(0.00013)													
211	2-(4-Chloro-6-ethylamino-1,3,5-triazin-2-yl)amino-2-methylpropiononitrile (synonym: Cyanazine)	21725-46-2	2006	16/21	6/7	0.0004～0.0025	(0.0004)									0/15	0/5	—	(0.4)					211
212	2-Chloroethyl vinyl ether	110-75-8	1984	0/24	0/8	—	(0.04～0.2)	0/24	0/8	—	(0.005～0.006)													212
213	3-Chloro-4-fluoronitrobenzene	350-30-1	1992													0/30	0/10	—	(140)					213
214	Chloroform	67-66-3	1974	21/60	5/12	1.4～70	(0.2～5)													Precipitation 6/18	3/7	0.01～0.118ppm	(0.0002)	214
			1975	86/395	20/79	0.09～17	(0.08～1)													Precipitation 25/114	18/56	0.1～43μg/L	(0.08～1)	
			1979													22/44	9/16	23～5,000	(20～1,000)					
			1980													57/132	15/24	17～4,600	(14～1,000)					
			1983													88/108	12/12	10～2,200	(10～100)					
			1988	6/51	2/17	0.2～0.3	(0.1～1.3)	0/51	0/17	—	(0.0008～0.03)					W.S. 14/15 C.S. 13/15	W.S. 7/7 C.S. 6/7	W.S. 130～3,000 C.S. 110～3,700	(W.S. 5～1,000) (C.S. 5～1,000)					
			1989													24/38	10/13	37～6,900	(5～500)					
			1990													128/128	19/19	18～12,000	(10)					
			1991													136/136	21/21	37～5,300	(10)	Outdoor air 26/26 Indoor air 79/81 Food 68/81	Outdoor air 9/9 Indoor air 9/9 Food 9/9	Outdoor air 130～3,200ng/m^3 Indoor air 79～12,000ng/m^3 Food 1.6～19ng/g-wet	(Outdoor air 50) (Indoor air 50) (Food 1.5)	
			1992													132/148	21/22	100～3,200	(100)	Outdoor air 21/27 Indoor air 81/81 Food 58/81	Outdoor air 8/9 Indoor air 9/9 Food 9/9	Outdoor air 160～1,900ng/m^3 Indoor air 8～7,500ng/m^3 Food 1.7～20ng/g-wet	(Outdoor air 100) (Indoor air 5) (Food 1.5)	
			1993													107/108	27/27	50～3,000	(50)	Outdoor air 23/23 Indoor air 81/81 Food 73/74	Outdoor air 8/8 Indoor air 9/9 Food 9/9	Outdoor air 180～2,400ng/m^3 Indoor air 140～9,200ng/m^3 Food 0.2～30ng/g-wet	(Outdoor air 4) (Indoor air 4) (Food 0.2)	
			1994													104/113	28/29	50～2,800	(50)	Outdoor air 24/27 Indoor air 75/81 Food 55/81	Outdoor air 8/9 Indoor air 9/9 Food 8/9	Outdoor air 77～2,800ng/m^3 Indoor air 110～3,400ng/m^3 Food 1.6～19ng/g-wet	(Outdoor air 70) (Indoor air 100) (Food 1.5)	
			1995													98/113	27/29	53～7,700	(50)	Outdoor air 27/27 Indoor air 80/81 Food 63/81	Outdoor air 9/9 Indoor air 9/9 Food 8/9	Outdoor air 60～4,400ng/m^3 Indoor air 30～14,000ng/m^3 Food 1.5～12.6ng/g-wet	(Outdoor air 4) (Indoor air 20) (Food 1.5)	
			1996													114/126	29/32	57～22,000	(50)	Outdoor air 32/36 Indoor air 72/81 Food 60/81	Outdoor air 8/9 Indoor air 8/9 Food 9/9	Outdoor air 68～22,000ng/m^3 Indoor air 83～94,000ng/m^3 Food 1.5～20ng/g-wet	(Outdoor air 50) (Indoor air 15) (Food 1.5)	
			1997													122/134	33/34	80～5,000	(50)	Outdoor air 35/35 Indoor air 79/79 Food 67/81	Outdoor air 9/9 Indoor air 9/9 Food 9/9	Outdoor air 170～5,000ng/m^3 Indoor air 68～5,700ng/m^3 Food 1.6～12ng/g-wet	(Outdoor air 50) (Indoor air 10) (Food 1.5)	
			1998													126/126	33/33	46～11,000	(44)	Outdoor air 33/33 Indoor air 81/81 Food 65/81	Outdoor air 9/9 Indoor air 9/9 Food 9/9	Outdoor air 60～11,000ng/m^3 Indoor air 150～18,000ng/m^3 Food 1.6～14ng/g-wet	(Outdoor air 44) (Indoor air 10) (Food 1.5)	
			1999													121/121	31/31	25～4,600	(20)	Outdoor air 32/32 Indoor air 72/72 Food 62/72	Outdoor air 8/8 Indoor air 8/8 Food 8/8	Outdoor air 25～4,600ng/m^3 Indoor air 200～5,600ng/m^3 Food 1.5～18ng/g-wet	(Outdoor air 20) (Indoor air 10) (Food 1.5)	

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2000													116/116	30/30	69～17,200	(20)	Outdoor air 30/30 Indoor air 72/72 Food 58/72	Outdoor air 8/8 Indoor air 8/8 Food 8/8	Outdoor air 120～17,000ng/m^3 Indoor air 150～23,000ng/m^3 Food 1.6～52ng/g-wet	(Outdoor air 20) (Indoor air 10) (Food 1.5)	
			2001													118/119	30/30	30～6,500	(10)	Outdoor air 27/28 Indoor air 62/63 Food 55/63	Outdoor air 7/7 Indoor air 7/7 Food 7/7	Outdoor air 130～6,500 ng/m^3 Indoor air 21～12,000 ng/m^3 Food 1.5～16ng/g-wet	(Outdoor air 10) (Indoor air 10) (Food 1.5)	
215	5'-Chloro-3-hydroxy-2',4'-dimethoxy-2-naphthanilide (synonym: Asoic CC-12)	92-72-8	1984	0/24	0/8	—	(0.1～0.4)	0/24	0/8	—	(0.01～0.04)													215
216	5'-Chloro-3-hydroxy-2'-methoxy-2-naphthanilide (synonym: Asoic CC-41)	137-52-0	1984	0/24	0/8	—	(0.1～0.4)	0/24	0/8	—	(0.01～0.03)													216
217	4'-Chloro-3-hydroxy-2'-methyl-2-naphthanilide (synonym: Asoic CC-8)	92-76-2	1984	0/24	0/8	—	(0.1～0.4)	0/24	0/8	—	(0.01～0.03)													217
218	Chloromethane	74-87-3	1977	0/3	0/1	—	(0.01)	2/3	1/1	0.0002～0.0003	(0.00005)													218
			1979													30/45	11/16	280～2,200	(20～1,000)					
			1980													61/99	15/19	48～3,000	(14～1,000)					
			1983													98/101	12/12	77～4,100	(5～54)					
			2001													48/48	16/16	750～16,000	(12)					
			2016	5/20	5/20	0.0031～0.017	(0.0030)																	
	2-Chloro-6-methylaniline	See 6-Chloro-*o*-toluidine																						
219	3-Chloro-4-methylaniline	95-74-9	1981	0/18	0/6	—	(0.03～15)	0/18	0/6	—	(0.0001～1)													219
	4-Chloro-2-methylaniline	See 4-Chloro-*o*-toluidine																						
	Chloromethyloxirane	See Epichlorohydrin																						
	2-Chloro-5-methylphenol	See 6-Chloro-*m*-cresol																						
	2-Chloro-6-methylphenol	See 6-Chloro-*o*-cresol																						
220	4-Chloro-2-methylphenol	1570-64-5	1984	0/24	0/8	—	(0.020～0.09)	0/24	0/8	—	(0.001～0.002)													220
			2014	0/21	0/21	—	(0.0032)																	
221	4-Chloro-3-methylphenol	59-50-7	1984	0/24	0/8	—	(0.025～0.1)	0/24	0/8	—	(0.0015～0.003)													221
222	1-Chloro-2-methylpropene	513-37-1	1980	0/36	0/12	—	(1～20)	0/36	0/12	—	(0.0001～0.1)													222
			2006	0/15	0/5	—	(0.0014)	0/15	0/5	—	(0.00013)													
223	3-Chloro-2-methylpropene	563-47-3	1980	0/30	0/10	—	(1～20)	0/30	0/10	—	(0.0001～0.1)													223
			2012													0/27	0/9	—	(4.8)					
224	4-Chloro-2-nitroaniline	89-63-4	1978	0/24	0/8	—	(0.1～0.88)	0/15	0/5	—	(0.02～0.0292)													224
	1-Chloro-2-nitrobenzene	See 2-Chloronitrobenzene																						
	1-Chloro-3-nitrobenzene	See 3-Chloronitrobenzene																						
	1-Chloro-4-nitrobenzene	See 4-Chloronitrobenzene																						
225	2-Chloronitrobenzene	88-73-3	1975	0/95	0/19	—	(100)																	225
			1991	0/156	0/52	—	(0.3)	0/162	0/54	—	(0.023)	Fish 0/138	Fish 0/46	Fish —	(Fish 0.0075)	3/54	1/18	14～45	(7)					
			2007	0/24	0/8	—	(0.0023)																	
			2008					0/45	0/15	—	(0.00022)					0/27	0/9	—	(1.2)					
226	3-Chloronitrobenzene	121-73-3	1994	0/27	0/9	—	(0.05)	0/27	0/9	—	(0.015)	Fish 0/27	Fish 0/9	Fish —	(Fish 0.003)	0/27	0/9	—	(5)					226
			2003	0/72	0/24	—	(0.05)	0/60	0/20	—	(0.0032)													
227	4-Chloronitrobenzene	100-00-5	1975	0/95	0/19	—	(100)																	227
			1978	0/24	0/8	—	(0.05～0.075)	0/15	0/5	—	(0.002～0.0025)													
			1991	0/156	0/52	—	(0.3)	0/162	0/54	—	(0.04)	Fish 0/138	Fish 0/46	Fish —	(Fish 0.0075)	5/54	2/18	3.6～110	(3)					
			2001	0/150	0/50	—	(0.087)	0/144	0/48	—	(0.0022)													
			2002									Fish 0/25	Fish 0/9	Fish —	(Fish 0.0078)									
	o-Chloronitrobenzene	See 2-Chloronitrobenzene																						
	m-Chloronitrobenzene	See 1-Chloro-3-nitrobenzene																						
	p-Chloronitrobenzene	See *p*-Nitrochlorobenzene																						
228	2-Chloro-5-nitrobenzenesulphonic acid	96-73-1	1979	0/30	0/10	—	(2～20)	0/30	0/10	—	(0.05～0.4)													228
	4-Chloro-3-nitro-*alpha*,*alpha*,*alpha*-trifluorotoluene	See 4-Chloro-*alpha*,*alpha*,*alpha*-trifluoro-3-nitrotoluene																						
	Chloropentabromocyclohexane	See 1,2,3,4,5-Pentabromo-6-chlorocyclohexane																						
229	2-Chlorophenol	95-57-8	1978	0/24	0/8	—	(0.2～40)	0/24	0/8	—	(0.1～4)													229
			1996	0/33	0/11	—	(0.05)	0/33	0/11	—	(0.009)													
230	3-Chlorophenol	108-43-0	1978	0/24	0/8	—	(2～40)	0/24	0/8	—	(0.05～4)													230
			1996	0/33	0/11	—	(0.05)	0/33	0/11	—	(0.0095)													
231	4-Chlorophenol	106-48-9	1978	0/24	0/8	—	(2～40)	0/24	0/8	—	(0.05～4)													231
			1996	0/33	0/11	—	(0.05)	0/33	0/11	—	(0.009)													
			2008	2/102	2/34	0.0017～0.0027	(0.0017)																	
			2023	30/33	30/33	0.00037～0.49	(0.00033)									0/45	0/15	—	(14)					
	o-Chlorophenol	See 2-Chlorophenol																						
	m-Chlorophenol	See 3-Chlorophenol																						
	p-Chlorophenol	See 4-Chlorophenol																						
232	*O*-(6-Chloro-3-phenyl-4-pyridazinyl) *S*-*n*-octyl thiocarbonate (synonym: Pyridate)	55512-33-9	2006	0/15	0/5	—	(0.004)									0/15	0/5	—	(0.20)					232
	Chloropicrin	See Trichloronitromethane																						
233	Chloroprene	126-99-8	1977	0/6	0/2	—	(2)																	233
234	1-Chloropropane	540-54-5	1981	0/27	0/9	—	(0.2～8)	0/27	0/9	—	(0.001～0.004)													234
235	2-Chloropropane	75-29-6	1981	0/27	0/9	—	(0.2～8)	0/27	0/9	—	(0.001～0.004)													235
236	1-Chloro-2-propanone	78-95-5	1986	0/30	0/10	—	(2)	0/30	0/10	—	(0.06)													236
237	3-Chloropropene (synonym: Allyl chloride)	107-05-1	1977	0/6	0/2	—	(5)																	237
			2015	0/23	0/23	—	(0.0011)																	
238	2-Chloropropionic acid	598-78-7	2006	0/15	0/5	—	(0.006)									12/15	4/5	0.4～1.4	(0.4)					238
239	2-chloropyridine	109-09-1	1980	0/21	0/7	—	(2～20)	0/21	0/7	—	(0.01～0.2)													239
240	*o*-Chlorostyrene	2039-87-4	1981	0/27	0/9	—	(10)	0/27	0/9	—	(0.2)													240
241	*m*-Chlorostyrene	2039-85-2	1981	0/27	0/9	—	(25)	0/27	0/9	—	(0.5)													241

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
242	*p* -Chlorostyrene	1073-67-2	1981	0/27	0/9	—	(5)	0/27	0/9	—	(0.1)													242
243	6-Chloro-7-sulfamoyl-3,4-dihydrobenzo[*e*][1,2,4]-2*H* -thiadiazine 1,1-dioxide	58-93-5	2018	16/16	16/16	0.00044～0.039	(0.000091)																	243
	Chlorothalonil	See Tetrachloroisophthalonitrile																						
244	4-Chlorotoluene	106-43-4	1979	0/18	0/6	—	(0.006～1)	0/18	0/6	—	(0.00012～0.02)													244
			1989	0/66	0/22	—	(0.5)	0/66	0/22	—	(0.011)					0/24	0/8	—	(30)					
	alpha -Chlorotoluene	See Benzyl chloride																						
245	*o* -Chlorotoluene	95-49-8	1979	0/18	0/6	—	(0.006～1)	0/18	0/6	—	(0.00012～0.02)													245
			1989	0/66	0/22	—	(0.3)	0/66	0/22	—	(0.011)					2/21	2/7	13.4～15	(10)					
			2007	0/54	0/18	—	(0.0016)																	
	p -Chlorotoluene	See 4-Chlorotoluene																						
246	4-Chloro-*o* -toluidine	95-69-2	1981	0/18	0/6	—	(0.03～15)	0/18	0/6	—	(0.0001～1)													246
247	6-Chloro-*o* -toluidine	87-63-8	1981	0/18	0/6	—	(0.015～7.5)	0/18	0/6	—	(0.0005～0.5)													247
	2-(4-Chloro-*o* -tolyloxy)propanoic acid	See MCPP																						
248	(*Z*)-2-Chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate (synonym: CVMP)	22248-79-9	2006	0/24	0/8	—	(0.0010)									0/15	0/5	—	(0.4)					248
249	2-Chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate	961-11-5	1988	0/72	0/24	—	(0.5)	0/72	0/24	—	(0.0103)	Fish 0/72	Fish 0/21	Fish —	(Fish 0.02)	0/72	0/12	—	(20)					249
250	3-Chlorotriclosan	63709-57-9	1995	0/33	0/11	—	(0.04)	3/33	1/11	0.009	(0.005)	Fish 0/33	Fish 0/11	Fish —	(Fish 0.003)									250
251	5-Chlorotriclosan	3380-44-7	1995	0/33	0/11	—	(0.06)	3/33	1/11	0.01	(0.005)	Fish 0/33	Fish 0/11	Fish —	(Fish 0.003)									251
252	Chlorotrifluoromethane (synonym: CFC-13)	75-72-9	2006	0/15	0/5	—	(0.003)																	252
253	4-Chloro-*alpha* ,*alpha* ,*alpha* -trifluoro-3-nitrotoluene	121-17-5	1981	0/24	0/8	—	(0.2～1)	0/24	0/8	—	(0.002～0.01)													253
254	1-(2-Chlorotrityl)imidazole	23593-75-1	2018	11/16	11/16	0.000044～0.00048	(0.000043)																	254
	Chlorpyrifos	See *O* ,*O* -Diethyl *O* -(3,5,6-trichloro-2-pyridyl) thiophosphate																						
255	Chlortetracycline	57-62-5	2014	0/16	0/16	—	(0.0046)																	255
	Chrysene	See Polycyclic aromatic hydrocarbons																						
256	Ciprofloxacin	85721-33-1	2023	6/32	6/32	0.00061～0.0038	(0.00049)																	256
257	Clarithromycin and its metabolite																							257
257-1	Clarithromycin	81103-11-9	2014	13/17	13/17	0.00093～0.49	(0.0008)																	257-1
			2019	19/30	19/30	0.0021～0.24	(0.0014)																	
257-2	14-(*R*)-Hydroxyclarithromycin	116836-41-0	2019	26/30	26/30	0.00064～0.23	(0.00062)																	257-2
258	Clindamycin	18323-44-9	2014	2/17	2/17	0.011	(0.0062)																	258
259	Clofibrate and its metabolite																							259
259-1	Clofibrate	637-07-0	2020	0/23	0/23	—	(0.028)																	259-1
259-2	Clofibric acid	882-09-7	2020	0/23	0/23	—	(0.033)																	259-2
	Clomipramine	See 3-(3-Chloro-5-[3'-(dimethylamino)propyl)]-10,11-dihydro-5*H* -dibenzo[*b* ,*f*]azepin																						
	Clotrimazole	See 1-(2-Chlorotrityl)imidazole																						
	CNP	See Chlornitrofen																						
260	Cobalt and its compounds (as Cobalt)	7440-48-4 etc.	1975	0/100	0/20	—	(10,000)	76/80	16/16	900～15,900	(～1,000)	Fish 2/75	Fish 2/15	Fish 120～200	(Fish 100～1,000)									260
			2011	20/20	20/20	0.0053～9.1	(0.0048)																	
261	Complex compound of 2,4-Dinitro-6-octylphenyl crotonate and 2,6-Dinitro-4-octylphenyl crotonate (limited to compounds with octyl group of 1-methyl heptyl, 1-ethylhexyl, or 1-Propyl pentyl) (synonym: Dinocap or DPC)	131-72-6	2006													3/15	1/5	0.25～0.29	(0.19)					261
262	*o* -Cresol	95-48-7	1977	0/9	0/3	—	(0.2～10)	0/9	0/3	—	(0.02～0.1)													262
			2009													39/60	17/20	12～74	(12)					
263	*m* -Cresol	108-39-4	1977	0/9	0/3	—	(0.2～10)	0/9	0/3	—	(0.02～0.1)													263
			2009													42/60	18/20	8.7～44	(6.8)					
264	*p* -Cresol	106-44-5	1977	0/9	0/3	—	(0.2～10)	3/9	1/3	0.02～0.03	(0.02～0.1)													264
			1996	1/33	1/11	0.67	(0.4)	9/27	3/9	0.028～1.23	(0.028)													
			2009													46/60	19/20	7.7～67	(6.8)					
	Cresyl diphenyl phosphate	See Diphenyl tolyl phosphate																						
	Crotonaldehyde	See 2-Butenal																						
265	Cumene (synonym: Isopropylbenzene)	98-82-8	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.004)													265
			1985	0/27	0/9	—	(0.04)	1/27	1/9	0.0006	(0.0006)													
			1986	8/135	5/46	0.09～0.44	(0.03)	6/111	5/37	0.00058～0.011	(0.0005)	Fish 12/138	Fish 9/42	Fish 0.0005～0.0014	(Fish 0.0005)									
			2009													60/63	20/21	5.1～990	(2.9)					
	Curene	See Isopropylbenzene																						
	CVMP	See 2-Chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate																						
	CVP	See 2-Chloro-1-(2,4-dichlorophenyl)vinyl diethyl phosphates																						
266	Cyanamide	420-04-2	2019	14/25	14/25	0.31～0.95	(0.28)																	266
267	Cyanides (contains Hydrogen cyanide)	74-90-8	2016													30/30	10/10	160～740	(49)					267
268	*alpha* -Cyano-3-phenoxybenzyl 2-(4-chlorophenyl)-3-methylbutyrate (synonym: Fenvalerate)	51630-58-1	(2007)	0/84	0/12	—	(0.0026*)																	268
			(2008)					0/81	0/27	—	(0.0015*)													
	(Total of *S* ,*R* -isomer and *R* ,*S* -isomer)		2007	0/84	0/12	—	(0.0015)																	
			2008					0/81	0/27	—	(0.00077)													
	Total of *S* ,*S* -isomer and *R* ,*R* -isomer)		2007	0/84	0/12	—	(0.0011)																	
			2008					0/81	0/27	—	(0.00074)													
268-1	(*S*)-*alpha* -Cyano-3-phenoxybenzyl (*S*)-2-(4-chlorophenyl)-3-methylbutyrate (synonym: Esfenvalerate)	66230-04-4	2007	0/84	0/12	—	(0.0023)																	268-1

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
269	*alpha* -Cyano-3-phenoxybenzyl 2,2-dichloro-1-(4-ethoxyphenyl)cyclopropanecarboxylate (synonym: Cycroprothrin)	63935-38-6	2006	3/14	1/5	0.012～0.12	(0.006)									0/15	0/5	—	(23)					269
270	[1*alpha* (*S**),3*alpha*]-(+/-)-Cyano(3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (synonym: *alpha* -Cypermethrin)	67375-30-8	2006	0/30	0/10	—	(0.01)																	270
	2-Cyanopyridine	See 2-Pyridinecarbonitrile																						
271	3-Cyanopyridine	100-54-9	1984	0/24	0/8	—	(1～4)	0/24	0/8	—	(0.05～0.2)													271
	4-Cyanopyridine	See 4-Pyridinecarbonitrile																						
272	Cyclododeca-1,5,9-triene	4904-61-4	2013	0/22	0/22	—	(0.025)	6/69	2/23	0.00092～0.0034	(0.00032)	Bivalves & Fish 1/39	Bivalves & Fish 1/13	Bivalves & Fish 0.0011	(Bivalves & Fish 0.00032)									272
273	Cyclohexanamine	108-91-8	1982	8/15	3/5	0.06～0.18	(0.06～0.5)	6/15	2/5	0.005～0.020	(0.004～0.005)													273
			1983	2/126	1/42	0.9～1.1	(0.3～2)	3/126	1/42	0.032～0.041	(0.01～0.08)	Fish 3/123	Fish 2/38	Fish 0.090～0.11	(Fish 0.015～0.1)									
			2021	12/24	12/24	0.22～2.4	(0.22)																	
274	Cyclohexane	110-82-7	1979	0/27	0/9	—	(0.05～0.2)	0/27	0/9	—	(0.0001～0.0004)													274
275	Cyclohexanone	108-94-1	1980	0/24	0/8	—	(4～50)	0/24	0/8	—	(0.2～1.0)													275
			2006	1/15	1/5	0.5	(0.4)	0/15	0/5	—	(0.013)													
			2014	1/20	1/20	0.0059	(0.0012)																	
276	Cyclohexene	110-83-8	2007	18/33	6/11	0.00029～0.014	(0.00028)	2/33	1/11	0.00057～0.0027	(0.00055)													276
	N -Cyclohexyl benzothiazole sulfenamide	See *N* -Cyclohexyl-2-benzothiazolesulfenamide																						
277	*N* -Cyclohexyl-2-benzothiazolesulfenamide	95-33-0	1977	0/12	0/6	—	(0.02～0.08)	0/12	0/6	—	(0.0023 ～0.02)													277
			1998	0/36	0/12	—	(0.21)	0/39	0/13	—	(0.01)													
			2005	0/27	0/9	—	(0.075)																	
278	1,3-Cyclopentadiene	542-92-7	1980	3/24	1/8	0.4～0.8	(0.1～0.2)	0/24	0/8	—	(0.0004～0.0022)													278
	Cyclopentadiene	See 1,3-Cyclopentadiene																						
279	Cyclopentane	287-92-3	1980	7/24	4/8	0.1～0.8	(0.1～0.2)	3/24	3/8	0.0007～0.003	(0.0004～0.0024)													279
280	Cyclopolydimethylsiloxanes																							280
280-1	Octamethylcyclotetrasiloxane	556-67-2	2019									Bivalves & Fish 23/33	Bivalves & Fish 9/11	Bivalves & Fish 0.00097～0.037	(Bivalves & Fish 0.00079)									280-1
			2020	19/26	19/26	0.0028～0.014	(0.0027)					Bivalves & Fish 21/36	Bivalves & Fish 8/12	Bivalves & Fish 0.00093～0.065	(Bivalves & Fish 0.00079)									
			2021	19/38	19/38	0.0035～0.082	(0.0028)					Bivalves & Fish 15/30	Bivalves & Fish 6/10	Bivalves & Fish 0.0038～0.015	(Bivalves & Fish 0.0024)									
280-2	Decamethylcyclopentasiloxane	541-02-6	2019									Bivalves & Fish 32/33	Bivalves & Fish 11/11	Bivalves & Fish 0.0013～0.20	(Bivalves & Fish 0.0013)									280-2
			2020	16/26	16/26	0.0044～0.12	(0.0043)					Bivalves & Fish 35/36	Bivalves & Fish 12/12	Bivalves & Fish 0.0014～0.78	(Bivalves & Fish 0.0013)									
			2021	36/42	36/42	0.0055～0.19	(0.0047)					Bivalves & Fish 26/30	Bivalves & Fish9/10	Bivalves & Fish 0.0023～0.54	(Bivalves & Fish 0.0023)									
280-3	Dodecamethylcyclohexasiloxane	540-97-6	2019									Bivalves & Fish 22/33	Bivalves & Fish 8/11	Bivalves & Fish 0.00079～0.0047	(Bivalves & Fish 0.00078)									280-3
			2020	15/26	15/26	0.0024～0.012	(0.0023)					Bivalves & Fish 19/36	Bivalves & Fish 7/12	Bivalves & Fish 0.00091～0.0075	(Bivalves & Fish 0.00078)									
			2021	29/44	29/44	0.0033～0.024	(0.0029)					Bivalves & Fish 12/30	Bivalves & Fish5/10	Bivalves & Fish 0.0012～0.010	(Bivalves & Fish 0.0011)									
	2,4-D	See 2,4-Dichlorophenoxy acetic acid																						
	Dazomet	See 2-Thioxo-3,5-dimethyltetrahydro-2H-1,3,5-thiadiazine																						
	DCIP	See Bis(2-chloro-1-methylethyl) ether																						
	DCPA	See 3',4'-Dichloropropionanilide																						
	D-D	See 1,3-Dichloropropene																						
281	*o*,*p*'-DDD	53-19-0	1978									Bivalves 0/10 Fish 5/30 Birds 0/7	Bivalves 0/2 Fish 1/6 Birds 0/1	Bivalves — Fish 0.003～0.004 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									281
			1979									Bivalves 0/15 Fish 0/40 Birds 6/6	Bivalves 0/3 Fish 0/8 Birds 1/1	Bivalves — Fish — Birds 0.002～0.006	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1980									Bivalves 0/15 Fish 12/50 Birds 0/8	Bivalves 0/3 Fish 3/10 Birds 0/1	Bivalves — Fish 0.001～0.018 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1981									Bivalves 0/20 Fish 12/46 Birds 0/7	Bivalves 0/4 Fish 3/9 Birds 0/1	Bivalves — Fish 0.001～0.014 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 0/20 Fish 14/50 Birds 0/9	Bivalves 0/4 Fish 3/10 Birds 0/2	Bivalves — Fish 0.001～0.012 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1983									Bivalves 1/20 Fish 14/50 Birds 0/10	Bivalves 1/4 Fish 3/10 Birds 0/2	Bivalves 0.001 Fish 0.001～0.004 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 0/20 Fish 15/60 Birds 0/10	Bivalves 0/4 Fish 4/12 Birds 0/2	Bivalves — Fish 0.001～0.006 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 0/20 Fish 16/60 Birds 2/10	Bivalves 0/4 Fish 5/12 Birds 1/2	Bivalves — Fish 0.001～0.003 Birds 0.003～0.031	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986									Bivalves 0/20 Fish 5/60 Birds 0/10	Bivalves 0/4 Fish 1/12 Birds 0/2	Bivalves — Fish 0.001 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1987									Bivalves 0/20 Fish 9/65 Birds 0/10	Bivalves 0/4 Fish 4/13 Birds 0/2	Bivalves － Fish 0.001～0.002 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988									Bivalves 0/20 Fish 6/65 Birds 0/10	Bivalves 0/4 Fish 3/13 Birds 0/2	Bivalves － Fish 0.001～0.005 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989									Bivalves 0/21 Fish 15/65 Birds 0/10	Bivalves 0/5 Fish 3/13 Birds 0/2	Bivalves － Fish 0.001～0.004 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990									Bivalves 0/25 Fish 5/65 Birds 0/10	Bivalves 0/5 Fish 1/13 Birds 0/2	Bivalves － Fish 0.001～0.004 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991									Bivalves 5/30 Fish 4/65 Birds 0/10	Bivalves 1/6 Fish 1/13 Birds 0/2	Bivalves 0.001 Fish 0.001～0.002 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992									Bivalves 0/30 Fish 12/70 Birds 0/10	Bivalves 0/6 Fish 4/14 Birds 0/2	Bivalves － Fish 0.001～0.002 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993									Bivalves 5/30 Fish 14/70 Birds 0/10	Bivalves 1/6 Fish 3/14 Birds 0/2	Bivalves 0.001 Fish 0.001～0.006 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994									Bivalves 0/30 Fish 5/70 Birds 0/5	Bivalves 0/6 Fish 1/14 Birds 0/1	Bivalves － Fish 0.001～0.003 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995									Bivalves 0/30 Fish 5/70 Birds 0/10	Bivalves 0/6 Fish 1/14 Birds 0/2	Bivalves － Fish 0.001～0.002 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996									Bivalves 0/30 Fish 10/70 Birds 0/10	Bivalves 0/6 Fish 3/14 Birds 0/2	Bivalves － Fish 0.001～0.004 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1998									Bivalves 0/30 Fish 6/70 Birds 0/10	Bivalves 0/6 Fish 2/14 Birds 0/2	Bivalves － Fish 0.001～0.003 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2000									Bivalves 0/30 Fish 9/69 Birds 0/10	Bivalves 0/6 Fish 2/14 Birds 0/2	Bivalves － Fish 0.001～0.003 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001									Bivalves 5/30 Fish 1/72 Birds 0/10	Bivalves 1/6 Fish 1/15 Birds 0/2	Bivalves 0.001 Fish 0.001 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	113/114	38/38	0.00000021～0.00011	(0.00000020)	184/189	62/63	0.000002～0.014	(0.000002)	Bivalves 38/38 Fish 66/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000009～0.0029 Fish 0.000005～0.0011 Birds 0.000008～0.000023	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	97/102	33/34	0.000027～0.00085	(0.000007)					
			2003	36/36	36/36	0.0000011～0.00016	(0.0000003)	186/186	62/62	0.0000010～0.0088	(0.0000005)	Bivalves 30/30 Fish 66/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000065～0.0019 Fish 0.0000021～0.00092 Birds 0.0000050～0.000036	(Bivalves 0.0000020) (Fish 0.0000020) (Birds 0.0000020)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.000059～0.0013 C.S. 0.000062～0.00042	(W.S. 0.000014) (C.S. 0.000014)					
			2004	38/38	38/38	0.0000007～0.000081	(0.0000005)	189/189	63/63	0.0000007～0.016	(0.0000005)	Bivalves 31/31 Fish 68/70 Birds 9/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.0000060～0.0028 Fish 0.0000020～0.0017 Birds 0.0000030～0.000025	(Bivalves 0.0000019) (Fish 0.0000019) (Birds 0.0000019)	W.S. 37/37 C.S. 35/37	W.S. 37/37 C.S. 35/37	W.S. 0.000052～0.0026 C.S. 0.000060～0.00086	(W.S. 0.000048) (C.S. 0.000048)					
			2005	47/47	47/47	0.0000005～0.000051	(0.0000004)	189/189	63/63	0.0000008～0.032	(0.0000003)	Bivalves 31/31 Fish 79/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000010～0.0018 Fish 0.0000014～0.0014 Birds 0.0000047～0.0000097	(Bivalves 0.0000011) (Fish 0.0000011) (Birds 0.0000011)	W.S. 37/37 C.S. 35/37	W.S. 37/37 C.S. 35/37	W.S. 0.00007～0.00090 C.S. 0.00003～0.00021	(W.S. 0.00003) (C.S. 0.00003)					
			2006	40/48	40/48	0.0000003～0.000039	(0.0000003)	192/192	64/64	0.0000003～0.013	(0.0000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000007～0.0010 Fish 0.000001～0.0011 Birds 0.000005～0.000019	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 34/37	W.S. 37/37 C.S. 34/37	W.S. 0.00005～0.0014 C.S. 0.00004～0.00079	(W.S. 0.00003) (C.S. 0.00003)					
			2007	48/48	48/48	0.0000003～0.000041	(0.0000003)	192/192	64/64	0.0000005～0.021	(0.0000004)	Bivalves 31/31 Fish 78/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000006～0.0012 Fish 0.000002～0.0013 Birds 0.000005～0.000010	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00005～0.0019 C.S. 0.00003～0.00033	(W.S. 0.00002) (C.S. 0.00002)					
			2008	47/48	47/48	0.0000006～0.00017	(0.0000003)	192/192	64/64	0.0000005～0.050	(0.0000001)	Bivalves 31/31 Fish 80/85 Birds 10/10	Bivalves 7/7 Fish 16/17 Birds 2/2	Bivalves 0.000005～0.0011 Fish 0.000004～0.0010 Birds 0.000002～0.000014	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00005～0.0016 C.S. 0.00004～0.00026	(W.S. 0.00001) (C.S. 0.00001)					
			2009	49/49	49/49	0.00000044～0.000041	(0.00000009)	192/192	64/64	0.0000005～0.024	(0.0000002)	Bivalves 31/31 Fish 87/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000005～0.0010 Fish 0.000001～0.00076 Birds 0.000003～0.000013	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00004～0.00090 C.S. 0.00002～0.00028	(W.S. 0.00001) (C.S. 0.00001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2010	49/49	49/49	0.0000005～0.00017	(0.0000002)	64/64	64/64	0.0000008～0.0069	(0.0000004)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.0000058～0.00040 Fish 0.0000026～0.00070 Birds 0.0000036～0.000011	(Bivalves 0.0000002) (Fish 0.0000002) (Birds 0.0000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00004～0.0018 C.S. 0.00002～0.00048	(W.S. 0.00001) (C.S. 0.00001)					
			2013									Bivalves 5/5 Fish 18/19 Birds 2/2	Bivalves 5/5 Fish 18/19 Birds 2/2	Bivalves 0.0000078～0.0018 Fish 0.0000077～0.00094 Birds 0.0000024～0.000012	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 36/36 C.S. 35/36	W.S. 36/36 C.S. 35/36	W.S. 0.00003～0.0012 C.S. 0.00002～0.00017	(W.S. 0.00002) (C.S. 0.00002)					
			2014	48/48	48/48	0.00000033～0.000038	(0.00000008)	63/63	63/63	0.0000007～0.0032	(0.0000005)													
			2015													25/35	25/35	0.00007～0.00037	(0.00007)					
			2018									Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 0.0000049～0.00072 Fish 0.0000046～0.0011 Birds 0.0000037～0.0000099	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	36/37	36/37	0.00003～0.00038	(0.00003)					
			2021	47/47	47/47	0.0000003～0.000054	(0.0000002)	60/60	60/60	0.0000004～0.0025	(0.0000002)	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 0.000002～0.00076 Fish 0.000003～0.00038 Birds 0.000004～0.000008	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	27/35	27/35	0.00004～0.00016	(0.00004)					
282	*p*,*p*′-DDD	72-54-8	1974	0/55	0/11	—	(0.0007～0.1)	20/50	4/10	0.0010～0.0150	(0.01)	Fish 25/49	Fish 6/10	Fish 0.0008～0.015	(Fish 0.0008～0.005)									282
			1978									Bivalves 10/10 Fish 20/30 Birds 7/7	Bivalves 2/2 Fish 4/6 Birds 1/1	Bivalves 0.001～0.006 Fish 0.002～0.019 Birds 0.002～0.005	(Fish 0.001)									
			1979									Bivalves 15/15 Fish 39/40 Birds 0/6	Bivalves 3/3 Fish 8/8 Birds 0/1	Bivalves 0.001～0.002 Fish 0.001～0.040 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1980									Bivalves 5/15 Fish 36/50 Birds 8/8	Bivalves 1/3 Fish 8/10 Birds 1/1	Bivalves 0.001～0.002 Fish 0.001～0.080 Birds 0.002～0.007	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1981									Bivalves 9/20 Fish 33/46 Birds 6/7	Bivalves 2/4 Fish 7/9 Birds 1/1	Bivalves 0.001～0.004 Fish 0.001～0.085 Birds 0.001～0.024	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 11/20 Fish 38/50 Birds 7/9	Bivalves 3/4 Fish 8/10 Birds 2/2	Bivalves 0.001～0.003 Fish 0.001～0.076 Birds 0.001～0.003	(Bivalves 0.001) (Fish 0.001～0.007) (Birds 0.001)									
			1983									Bivalves 13/20 Fish 40/50 Birds 10/10	Bivalves 3/4 Fish 9/10 Birds 2/2	Bivalves 0.001～0.004 Fish 0.001～0.032 Birds 0.001～0.003	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 13/20 Fish 35/60 Birds 5/10	Bivalves 3/4 Fish 7/12 Birds 1/2	Bivalves 0.001～0.002 Fish 0.001～0.042 Birds 0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 5/20 Fish 35/60 Birds 10/10	Bivalves 1/4 Fish 8/12 Birds 2/2	Bivalves 0.002 Fish 0.001～0.018 Birds 0.001～0.099	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986		0/18	—			7/18	0.0002～0.0130		Bivalves 10/20 Fish 42/60 Birds 7/10	Bivalves 2/4 Fish 9/12 Birds 2/2	Bivalves 0.001～0.002 Fish 0.001～0.019 Birds 0.001～0.016	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987		0/20	—			7/20	0.00018～0.0067		Bivalves 5/20 Fish 43/65 Birds 6/10	Bivalves 1/4 Fish 10/13 Birds 2/2	Bivalves 0.001 Fish 0.001～0.020 Birds 0.002～0.011	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988		0/22	—			6/22	0.00028～0.030		Bivalves 7/20 Fish 36/65 Birds 6/10	Bivalves 2/4 Fish 8/13 Birds 2/2	Bivalves 0.001 Fish 0.001～0.038 Birds 0.001～0.004	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989		0/17	—			4/17	0.0044～0.040		Bivalves 6/21 Fish 41/65 Birds 5/10	Bivalves 2/5 Fish 9/13 Birds 1/2	Bivalves 0.001 Fish 0.001～0.024 Birds 0.002～0.003	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990		0/18	—			7/18	0.00020～0.0337		Bivalves 12/25 Fish 35/65 Birds 5/10	Bivalves 3/5 Fish 9/13 Birds 1/2	Bivalves 0.001～0.004 Fish 0.001～0.022 Birds 0.001～0.003	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991		0/18	—			8/18	0.00020～0.018		Bivalves 17/30 Fish 34/65 Birds 5/10	Bivalves 4/6 Fish 9/13 Birds 1/2	Bivalves 0.001～0.003 Fish 0.001～0.014 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992		0/18	—			9/18	0.00015～0.012		Bivalves 6/30 Fish 32/70 Birds 6/10	Bivalves 2/6 Fish 8/14 Birds 2/2	Bivalves 0.001 Fish 0.001～0.024 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993		0/19	—			10/19	0.000095～0.0070		Bivalves 5/30 Fish 31/70 Birds 5/10	Bivalves 1/6 Fish 7/14 Birds 1/2	Bivalves 0.001 Fish 0.001～0.016 Birds 0.001～0.004	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994		0/17	—			10/17	0.00016～0.013		Bivalves 10/30 Fish 31/70 Birds 4/5	Bivalves 2/6 Fish 7/14 Birds 1/1	Bivalves 0.001～0.002 Fish 0.001～0.009 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995		0/18	—			10/18	0.00012～0.018		Bivalves 5/30 Fish 31/70 Birds 4/10	Bivalves 1/6 Fish 7/14 Birds 1/2	Bivalves 0.008～0.009 Fish 0.001～0.014 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996		0/18	—			7/18	0.000128～0.0075		Bivalves 10/30 Fish 35/70 Birds 3/10	Bivalves 2/6 Fish 9/14 Birds 1/2	Bivalves 0.001～0.004 Fish 0.001～0.027 Birds 0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1997		0/18	—			6/18	0.00020～0.009		Bivalves 10/30 Fish 35/70 Birds 1/10	Bivalves 2/6 Fish 8/14 Birds 1/2	Bivalves 0.001～0.005 Fish 0.001～0.009 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1998		0/18	—			7/18	0.00022～0.0055		Bivalves 10/30 Fish 29/70 Birds 0/10	Bivalves 2/6 Fish 8/14 Birds 0/2	Bivalves 0.001～0.003 Fish 0.001～0.009 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999						7/18	0.00013～0.0076		Bivalves 5/30 Fish 26/70 Birds 1/10	Bivalves 1/6 Fish 6/14 Birds 1/2	Bivalves 0.001～0.002 Fish 0.001～0.009 Birds 0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2000						7/17	0.00015～0.015		Bivalves 3/30 Fish 32/69 Birds 5/10	Bivalves 1/6 Fish 7/14 Birds 1/2	Bivalves 0.001 Fish 0.001～0.010 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001						7/20	0.00032～0.0072		Bivalves 15/30 Fish 29/72 Birds 5/10	Bivalves 3/6 Fish 6/15 Birds 1/2	Bivalves 0.001～0.003 Fish 0.001～0.007 Birds 0.001～0.003	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	114/114	38/38	0.00000057～0.00019	(0.00000008)	189/189	63/63	0.0000022～0.051	(0.0000008)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000011～0.0032 Fish 0.000080～0.014 Birds 0.00014～0.0039	(Bivalves 0.0000018) (Fish 0.0000018) (Birds 0.0000018)	101/102	34/34	0.000024～0.00076	(0.000006)					
			2003	36/36	36/36	0.000004～0.00041	(0.0000005)	186/186	62/62	0.0000037～0.032	(0.0000003)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000075～0.0026 Fish 0.000043～0.0037 Birds 0.00011～0.0039	(Bivalves 0.0000033) (Fish 0.0000033) (Birds 0.0000033)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.000063～0.0014 C.S. 0.000037～0.00052	(W.S. 0.000018) (C.S. 0.000018)					
			2004	38/38	38/38	0.0000024～0.00074	(0.0000008)	189/189	63/63	0.000004～0.075	(0.0000007)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.0000078～0.0089 Fish 0.000056～0.0097 Birds 0.000052～0.0014	(Bivalves 0.00000070) (Fish 0.00000070) (Birds 0.00000070)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000036～0.0014 C.S. 0.000025～0.00091	(W.S. 0.000018) (C.S. 0.000018)					
			2005	47/47	47/47	0.0000018～0.00013	(0.00000064)	189/189	63/63	0.0000052～0.21	(0.00000064)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000013～0.0017 Fish 0.000029～0.0067 Birds 0.000045～0.0014	(Bivalves 0.00000097) (Fish 0.00000097) (Birds 0.00000097)	W.S. 37/37 C.S. 28/37	W.S. 37/37 C.S. 28/37	W.S. 0.00007～0.0013 C.S. 0.00005～0.00029	(W.S. 0.00005) (C.S. 0.00005)					
			2006	48/48	48/48	0.0000020～0.000099	(0.0000005)	192/192	64/64	0.0000022～0.053	(0.0000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000073～0.0014 Fish 0.000060～0.0043 Birds 0.000055～0.0018	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 36/37 C.S. 36/37	W.S. 36/37 C.S. 36/37	W.S. 0.00005～0.0013 C.S. 0.00004～0.00099	(W.S. 0.00004) (C.S. 0.00004)					
			2007	48/48	48/48	0.0000015～0.00015	(0.0000006)	192/192	64/64	0.0000035～0.08	(0.0000004)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000007～0.0015 Fish 0.000036～0.0041 Birds 0.00007～0.0023	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.000046～0.0014 C.S. 0.000026～0.00050	(W.S. 0.000004) (C.S. 0.000004)					
			2008	48/48	48/48	0.0000020～0.00085	(0.0000002)	192/192	64/64	0.0000028～0.30	(0.0000004)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000006～0.0013 Fish 0.000033～0.0041 Birds 0.000035～0.0011	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000037～0.0011 C.S. 0.000036～0.00031	(W.S. 0.000009) (C.S. 0.000009)					
			2009	49/49	49/49	0.0000014～0.00014	(0.0000002)	192/192	64/64	0.0000039～0.30	(0.0000002)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.0000058～0.0024 Fish 0.000057～0.0025 Birds 0.000031～0.0034	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00003～0.00082 C.S. 0.00002～0.00035	(W.S. 0.00001) (C.S. 0.00001)					
			2010	49/49	49/49	0.0000016～0.00097	(0.00000008)	64/64	64/64	0.0000044～0.078	(0.0000005)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000011～0.00096 Fish 0.000057～0.0029 Birds 0.00012～0.0016	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00004～0.0017 C.S. 0.00002～0.00041	(W.S. 0.00001) (C.S. 0.00001)					
			2013									Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000019～0.0013 Fish 0.000068～0.0047 Birds 0.000070～0.00027	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.000027～0.00080 C.S. 0.000015～0.00014	(W.S. 0.000007) (C.S. 0.000007)					
			2014	48/48	48/48	0.0000010～0.000087	(0.0000004)	63/63	63/63	0.0000049～0.021	(0.0000014)													
			2015													17/35	17/35	0.00011～0.00031	(0.00011)					
			2018									Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000017～0.00083 Fish 0.000040～0.0031 Birds 0.00021～0.00026	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	36/37	36/37	0.00004～0.00072	(0.00003)					
			2021	47/47	47/47	0.0000009～0.000087	(0.0000003)	60/60	60/60	0.0000019～0.0086	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000052～0.00084 Fish 0.000026～0.0027 Birds 0.00012～0.00014	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	18/35	18/35	0.00005～0.00018	(0.00005)					
283	*o*,*p*'-DDE	3424-82-6	1978									Bivalves 0/10 Fish 4/30 Birds 5/7	Bivalves 0/2 Fish 1/6 Birds 1/1	Bivalves — Fish 0.002～0.003 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									283
			1979									Bivalves 1/15 Fish 5/40 Birds 0/6	Bivalves 1/3 Fish 1/8 Birds 0/1	Bivalves 0.002 Fish 0.002～0.005 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1980									Bivalves 0/15 Fish 6/50 Birds 0/8	Bivalves 0/3 Fish 2/10 Birds 0/1	Bivalves — Fish 0.002～0.004 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1981									Bivalves 0/20 Fish 14/46 Birds 0/7	Bivalves 0/4 Fish 3/9 Birds 0/1	Bivalves — Fish 0.001～0.008 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1982									Bivalves 0/20 Fish 10/50 Birds 4/9	Bivalves 0/4 Fish 2/10 Birds 1/2	Bivalves － Fish 0.001～0.002 Birds 0.001	(Bivalves 0.001) (Fish 0.001～0.002) (Birds 0.001)									
			1983									Bivalves 1/20 Fish 10/50 Birds 5/10	Bivalves 1/4 Fish 2/10 Birds 1/2	Bivalves 0.001 Fish 0.001～0.002 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 0/20 Fish 10/60 Birds 5/10	Bivalves 0/4 Fish 2/12 Birds 1/2	Bivalves － Fish 0.001～0.012 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 0/20 Fish 10/60 Birds 0/10	Bivalves 0/4 Fish 4/12 Birds 0/2	Bivalves － Fish 0.001～0.005 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987									Bivalves 0/20 Fish 2/65 Birds 0/10	Bivalves 0/4 Fish 1/13 Birds 0/2	Bivalves － Fish 0.001～0.002 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988									Bivalves 0/20 Fish 5/65 Birds 0/10	Bivalves 0/4 Fish 2/13 Birds 0/2	Bivalves － Fish 0.001～0.007 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989									Bivalves 0/21 Fish 9/65 Birds 0/10	Bivalves 0/5 Fish 2/13 Birds 0/2	Bivalves － Fish 0.002～0.003 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990									Bivalves 0/25 Fish 5/65 Birds 0/10	Bivalves 0/5 Fish 1/13 Birds 0/2	Bivalves － Fish 0.001 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991									Bivalves 0/30 Fish 5/65 Birds 0/10	Bivalves 0/6 Fish 1/13 Birds 0/2	Bivalves － Fish 0.003～0.006 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992									Bivalves 0/30 Fish 10/70 Birds 0/10	Bivalves 0/6 Fish 2/14 Birds 0/2	Bivalves － Fish 0.001～0.006 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993									Bivalves 5/30 Fish 15/70 Birds 0/10	Bivalves 1/6 Fish 3/14 Birds 0/2	Bivalves 0.001～0.002 Fish 0.001～0.018 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994									Bivalves 0/30 Fish 5/70 Birds 0/5	Bivalves 0/6 Fish 1/14 Birds 0/1	Bivalves － Fish 0.002～0.005 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995									Bivalves 0/30 Fish 10/70 Birds 0/10	Bivalves 0/6 Fish 3/14 Birds 0/2	Bivalves － Fish 0.001～0.019 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996									Bivalves 0/30 Fish 6/70 Birds 0/10	Bivalves 0/6 Fish 3/14 Birds 0/2	Bivalves － Fish 0.001～0.003 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1998									Bivalves 0/30 Fish 9/70 Birds 0/10	Bivalves 0/6 Fish 2/14 Birds 0/2	Bivalves － Fish 0.001～0.002 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2000									Bivalves 0/30 Fish 5/69 Birds 0/10	Bivalves 0/6 Fish 1/14 Birds 0/2	Bivalves － Fish 0.002～0.006 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001									Bivalves 0/30 Fish 6/72 Birds 0/10	Bivalves 0/6 Fish 2/15 Birds 0/2	Bivalves － Fish 0.001～0.009 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	113/114	38/38	0.00000025～0.00068	(0.0000003)	188/189	63/63	0.000001～0.016	(0.000001)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000013～0.0011 Fish 0.0000036～0.013 Birds 0.000020～0.000049	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	102/102	34/34	0.00011～0.0085	(0.00001)					
			2003	36/36	36/36	0.00000042～0.00017	(0.0000003)	186/186	62/62	0.0000005～0.024	(0.0000002)	Bivalves 30/30 Fish 67/70 Birds 9/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.000017～0.00046 Fish 0.0000012～0.0025 Birds 0.0000012～0.0000042	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.00017～0.0075 C.S. 0.00018～0.0017	(W.S. 0.0000068) (C.S. 0.0000068)					
			2004	38/38	38/38	0.0000006～0.00017	(0.0000005)	184/189	63/63	0.0000008～0.028	(0.0000008)	Bivalves 31/31 Fish 70/70 Birds 5/10	Bivalves 7/7 Fish 14/14 Birds 1/2	Bivalves 0.000019～0.00036 Fish 0.00000089～0.0058 Birds 0.0000021～0.0000037	(Bivalves 0.00000069) (Fish 0.00000069) (Birds 0.00000069)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00014～0.0089 C.S. 0.00014～0.0039	(W.S. 0.000012) (C.S. 0.000012)					
			2005	47/47	47/47	0.0000004～0.00041	(0.0000004)	181/189	62/63	0.0000009～0.031	(0.0000009)	Bivalves 31/31 Fish 80/80 Birds 7/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000012～0.00047 Fish 0.0000014～0.012 Birds 0.0000012～0.0000029	(Bivalves 0.0000011) (Fish 0.0000011) (Birds 0.0000011)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00033～0.0079 C.S. 0.00024～0.0020	(W.S. 0.000024) (C.S. 0.000024)					
			2006	28/48	28/48	0.00000052～0.00021	(0.0000009)	192/192	64/64	0.0000004～0.027	(0.0000004)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000012～0.00034 Fish 0.000001～0.0048 Birds 0.000001～0.000003	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/37 C.S. 37/37	W.S. 36/37 C.S. 37/37	W.S. 0.00030～0.0074 C.S. 0.00019～0.0026	(W.S. 0.00003) (C.S. 0.00003)					
			2007	29/48	29/48	0.0000008～0.00021	(0.0000008)	186/192	63/64	0.0000006～0.025	(0.0000004)	Bivalves 31/31 Fish 79/80 Birds 6/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000089～0.00041 Fish 0.0000013～0.0044 Birds 0.0000010～0.0000028	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.000096～0.0070 C.S. 0.00012～0.0037	(W.S. 0.000007) (C.S. 0.000007)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2008	39/48	39/48	0.0000004～0.00026	(0.0000003)	186/192	63/64	0.0000008～0.037	(0.0000006)	Bivalves 31/31 Fish 85/85 Birds 5/10	Bivalves 7/7 Fish 17/17 Birds 1/2	Bivalves 0.000008～0.00039 Fish 0.000001～0.013 Birds 0.000001～0.000003	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00011～0.0050 C.S. 0.00015～0.0011	(W.S. 0.000009) (C.S. 0.000009)					
			2009	47/49	47/49	0.00000011～0.00014	(0.00000009)	191/192	64/64	0.0000003～0.033	(0.0000002)	Bivalves 31/31 Fish 90/90 Birds 6/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000008～0.00031 Fish 0.000001～0.0043 Birds 0.000001～0.000002	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000098～0.0067 C.S. 0.000072～0.023	(W.S. 0.000006) (C.S. 0.000006)					
			2010	49/49	49/49	0.00000013～0.00018	(0.00000009)	64/64	64/64	0.0000007～0.025	(0.0000005)	Bivalves 6/6 Fish 18/18 Birds 1/2	Bivalves 6/6 Fish 18/18 Birds 1/2	Bivalves 0.0000078～0.00016 Fish 0.0000012～0.0028 Birds 0.0000037	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00009～0.0090 C.S. 0.00008～0.0023	(W.S. 0.00001) (C.S. 0.00001)					
			2013									Bivalves 5/5 Fish 19/19 Birds 1/2	Bivalves 5/5 Fish 19/19 Birds 1/2	Bivalves 0.000004～0.00026 Fish 0.000001～0.0030 Birds 0.000001	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.000051～0.0033 C.S. 0.000097～0.00065	(W.S. 0.000009) (C.S. 0.000009)					
			2014	36/48	36/48	0.0000002～0.00056	(0.0000001)	63/63	63/63	0.0000005～0.041	(0.0000003)													
			2015													34/35	34/35	0.00006～0.0011	(0.00006)					
			2018									Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 0.000002～0.00025 Fish 0.000004～0.0020 Birds 0.000001	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00004～0.0012	(0.00002)					
			2021	32/47	32/47	0.0000002～0.000092	(0.0000002)	59/60	59/60	0.0000004～0.016	(0.0000002)	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 0.000002～0.00011 Fish 0.000002～0.0016 Birds 0.000001	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	34/35	34/35	0.00008～0.00055	(0.00004)					
284	*p,p'*- DDE	72-55-9	1974	0/55	0/11	—	(0.0003～0.1)	22/50	5/10	0.0001～0.04	(0.01)	Fish 43/49	Fish 10/10	Fish 0.0006～0.131	(Fish 0.0002 ～ 0.005)									284
			1978									Bivalves 10/10 Fish 30/30 Birds 7/7	Bivalves 2/2 Fish 6/6 Birds 1/1	Bivalves 0.002～0.006 Fish 0.002～0.074 Birds 0.021～0.095										
			1979									Bivalves 15/15 Fish 40/40 Birds 6/6	Bivalves 3/3 Fish 8/8 Birds 1/1	Bivalves 0.001～0.007 Fish 0.001～0.142 Birds 0.164～0.430	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1980									Bivalves 15/15 Fish 48/50 Birds 8/8	Bivalves 3/3 Fish 10/10 Birds 1/1	Bivalves 0.001～0.007 Fish 0.001～0.138 Birds 0.124～0.406	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1981									Bivalves 19/20 Fish 41/46 Birds 7/7	Bivalves 4/4 Fish 8/9 Birds 1/1	Bivalves 0.001～0.005 Fish 0.001～0.18 Birds 0.112～0.323	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 20/20 Fish 45/50 Birds 9/9	Bivalves 4/4 Fish 9/10 Birds 2/2	Bivalves 0.001～0.004 Fish 0.001～0.36 Birds 0.047～1.1	(Bivalves 0.001) (Fish 0.001～0.002) (Birds 0.001)									
			1983									Bivalves 11/20 Fish 45/50 Birds 10/10	Bivalves 3/4 Fish 9/10 Birds 2/2	Bivalves 0.001～0.006 Fish 0.001～0.125 Birds 0.058～0.51	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 15/20 Fish 50/60 Birds 10/10	Bivalves 3/4 Fish 10/12 Birds 2/2	Bivalves 0.001～0.006 Fish 0.001～0.020 Birds 0.088～0.58	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 10/20 Fish 51/60 Birds 10/10	Bivalves 2/4 Fish 11/12 Birds 2/2	Bivalves 0.001～0.005 Fish 0.001～0.154 Birds 0.078～0.61	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986		0/18	—			9/18	0.0002～0.0046		Bivalves 15/20 Fish 56/60 Birds 10/10	Bivalves 3/4 Fish 12/12 Birds 2/2	Bivalves 0.001～0.006 Fish 0.001～0.13 Birds 0.10～0.38	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987		1/20	0.0007			15/20	0.00002～0.013		Bivalves 15/20 Fish 55/65 Birds 10/10	Bivalves 3/4 Fish 12/13 Birds 2/2	Bivalves 0.001～0.002 Fish 0.001～0.046 Birds 0.078～0.32	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988		0/22	—			11/22	0.00019～0.012		Bivalves 15/20 Fish 55/65 Birds 10/10	Bivalves 3/4 Fish 12/13 Birds 2/2	Bivalves 0.001～0.003 Fish 0.001～0.230 Birds 0.120～0.400	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989		0/17	—			10/17	0.00041～0.037		Bivalves 11/21 Fish 52/65 Birds 10/10	Bivalves 3/5 Fish 12/13 Birds 2/2	Bivalves 0.001～0.004 Fish 0.001～0.045 Birds 0.150～0.310	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990		0/18	—			8/18	0.00025～0.0506		Bivalves 15/25 Fish 59/65 Birds 10/10	Bivalves 3/5 Fish 13/13 Birds 2/2	Bivalves 0.001～0.003 Fish 0.001～0.049 Birds 0.072～0.310	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991		0/18	—			12/18	0.00028～0.074		Bivalves 14/30 Fish 56/65 Birds 10/10	Bivalves 3/6 Fish 12/13 Birds 2/2	Bivalves 0.002～0.004 Fish 0.001～0.043 Birds 0.045～0.46	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992		0/18	—			10/18	0.00051～0.060		Bivalves 19/30 Fish 58/70 Birds 10/10	Bivalves 4/6 Fish 13/14 Birds 2/2	Bivalves 0.001～0.004 Fish 0.001～0.049 Birds 0.067～0.46	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993		0/19	—			14/19	0.000034～0.052		Bivalves 18/30 Fish 59/70 Birds 10/10	Bivalves 5/6 Fish 14/14 Birds 2/2	Bivalves 0.001～0.003 Fish 0.001～0.077 Birds 0.090～0.52	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994		0/17	—			12/17	0.00012～0.029		Bivalves 13/30 Fish 60/70 Birds 5/5	Bivalves 3/6 Fish 14/14 Birds 1/1	Bivalves 0.001～0.003 Fish 0.001～0.030 Birds 0.076～0.150	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995		0/18	—			9/18	0.00019～0.028		Bivalves 15/30 Fish 63/70 Birds 10/10	Bivalves 3/6 Fish 13/14 Birds 2/2	Bivalves 0.001～0.008 Fish 0.001～0.020 Birds 0.051～0.700	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1996		0/18	—			14/18	0.000161～0.034		Bivalves 10/30 Fish 59/70 Birds 10/10	Bivalves 2/6 Fish 13/14 Birds 2/2	Bivalves 0.001～0.003 Fish 0.001～0.094 Birds 0.013～0.108	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1997		0/18	—			13/18	0.000114～0.024		Bivalves 15/30 Fish 50/70 Birds 10/10	Bivalves 3/6 Fish 13/14 Birds 2/2	Bivalves 0.001～0.004 Fish 0.001～0.033 Birds 0.009～0.149	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1998		0/18	—			13/18	0.00028～0.041		Bivalves 20/30 Fish 59/70 Birds 10/10	Bivalves 4/6 Fish 13/14 Birds 2/2	Bivalves 0.001～0.003 Fish 0.001～0.021 Birds 0.010～0.140	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999						10/18	0.00013～0.025		Bivalves 17/30 Fish 45/70 Birds 10/10	Bivalves 4/6 Fish 13/14 Birds 2/2	Bivalves 0.001～0.008 Fish 0.001～0.016 Birds 0.007～0.130	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2000						10/17	0.00013～0.011		Bivalves 14/30 Fish 50/69 Birds 10/10	Bivalves 3/6 Fish 12/14 Birds 2/2	Bivalves 0.001～0.003 Fish 0.001～0.048 Birds 0.010～0.133	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001						8/20	0.00020～0.013		Bivalves 10/30 Fish 50/72 Birds 10/10	Bivalves 2/6 Fish 13/15 Birds 2/2	Bivalves 0.003～0.007 Fish 0.001～0.031 Birds 0.019～0.20	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	114/114	38/38	0.0000013～0.00076	(0.0000002)	189/189	63/63	0.0000084～0.023	(0.0000009)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.00014～0.0060 Fish 0.00051～0.098 Birds 0.0081～0.17	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	102/102	34/34	0.00056～0.028	(0.00003)					
			2003	36/36	36/36	0.000005～0.00038	(0.000002)	186/186	62/62	0.0000095～0.080	(0.0000003)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.00019～0.0065 Fish 0.00018～0.012 Birds 0.018～0.24	(Bivalves 0.0000019) (Fish 0.0000019) (Birds 0.0000019)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.0012～0.051 C.S. 0.0011～0.022	(W.S. 0.00013) (C.S. 0.00013)					
			2004	38/38	38/38	0.000006～0.00068	(0.000003)	189/189	63/63	0.000008～0.039	(0.0000008)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.00022～0.0084 Fish 0.00039～0.052 Birds 0.0068～0.20	(Bivalves 0.0000027) (Fish 0.0000027) (Birds 0.0000027)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00062～0.095 C.S. 0.00085～0.043	(W.S. 0.000039) (C.S. 0.000039)					
			2005	47/47	47/47	0.000004～0.00041	(0.000002)	189/189	63/63	0.0000084～0.064	(0.00000094)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00023～0.0066 Fish 0.00023～0.073 Birds 0.0071～0.30	(Bivalves 0.0000028) (Fish 0.0000028) (Birds 0.0000028)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0012～0.042 C.S. 0.00076～0.0099	(W.S. 0.000034) (C.S. 0.000034)					
			2006	48/48	48/48	0.000004～0.00017	(0.000002)	192/192	64/64	0.0000058～0.049	(0.0000003)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00016～0.0060 Fish 0.00028～0.028 Birds 0.0059～0.16	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0017～0.049 C.S. 0.00052～0.0095	(W.S. 0.00003) (C.S. 0.00003)					
			2007	48/48	48/48	0.000002～0.00044	(0.000002)	192/192	64/64	0.0000032～0.061	(0.0000004)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00018～0.0056 Fish 0.00016～0.022 Birds 0.0067～0.32	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00054～0.12 C.S. 0.00073～0.039	(W.S. 0.00002) (C.S. 0.00002)					
			2008	48/48	48/48	0.0000025～0.00035	(0.0000004)	192/192	64/64	0.0000090～0.096	(0.0000007)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.00012～0.0058 Fish 0.00032～0.053 Birds 0.0075～0.16	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00098～0.096 C.S. 0.00089～0.022	(W.S. 0.00002) (C.S. 0.00002)					
			2009	49/49	49/49	0.0000034～0.00024	(0.0000004)	192/192	64/64	0.0000067～0.050	(0.0000003)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.00015～0.0064 Fish 0.00026～0.020 Birds 0.0043～0.22	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00087～0.13 C.S. 0.0006～0.10	(W.S. 0.00003) (C.S. 0.00003)					
			2010	49/49	49/49	0.0000024～0.0016	(0.0000008)	64/64	64/64	0.000011～0.040	(0.000002)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.00023～0.0063 Fish 0.00026～0.013 Birds 0.0063～0.16	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00041～0.20 C.S. 0.00047～0.028	(W.S. 0.00021) (C.S. 0.00021)					
			2013									Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.00017～0.0030 Fish 0.00043～0.016 Birds 0.17	(Bivalves 0.0000014) (Fish 0.0000014) (Birds 0.0000014)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00024～0.037 C.S. 0.00055～0.011	(W.S. 0.00003) (C.S. 0.00003)					
			2014	48/48	48/48	0.0000019～0.00061	(0.0000002)	63/63	63/63	0.000011～0.064	(0.0000006)													
			2015													35/35	35/35	0.00031～0.034	(0.00004)					
			2018									Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.00015～0.0022 Fish 0.00029～0.016 Birds 0.022～0.29	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00031～0.049	(0.00001)					
			2021	47/47	47/47	0.0000009～0.00017	(0.0000001)	60/60	60/60	0.0000087～0.025	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000088～0.00096 Fish 0.00023～0.0085 Birds 0.064～0.10	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	35/35	35/35	0.00043～0.021	(0.00005)					
285	*o*,*p*′-DDT	789-02-6	1974	0/55	0/11	—	(0.0007～0.1)	0/50	0/10	—	(0.0003～0.01)	Fish 6/49	Fish 2/10	Fish 0.0016～0.0021	(Fish 0.0005～0.005)									285
			1978									Bivalves 1/10 Fish 20/30 Birds 2/7	Bivalves 1/2 Fish 4/6 Birds 1/1	Bivalves 0.001 Fish 0.001～0.017 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1979									Bivalves 0/15 Fish 13/40 Birds 0/6	Bivalves 0/3 Fish 5/8 Birds 0/1	Bivalves — Fish 0.001～0.032 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1980									Bivalves 0/15 Fish 19/50 Birds 2/8	Bivalves 0/3 Fish 6/10 Birds 1/1	Bivalves — Fish 0.001～0.009 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1981									Bivalves 5/20 Fish 13/46 Birds 0/7	Bivalves 1/4 Fish 3/9 Birds 0/1	Bivalves 0.002～0.003 Fish 0.001～0.019 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 2/20 Fish 14/50 Birds 3/9	Bivalves 1/4 Fish 4/10 Birds 1/2	Bivalves 0.001 Fish 0.001～0.024 Birds 0.001	(Bivalves 0.001) (Fish 0.001～0.005) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1983									Bivalves 5/20 Fish 14/50 Birds 0/10	Bivalves 1/4 Fish 3/10 Birds 0/2	Bivalves 0.001～0.003 Fish 0.001～0.013 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 0/20 Fish 9/60 Birds 0/10	Bivalves 0/4 Fish 2/12 Birds 0/2	Bivalves － Fish 0.001～0.021 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 0/20 Fish 12/60 Birds 2/10	Bivalves 0/4 Fish 3/12 Birds 1/2	Bivalves － Fish 0.001～0.008 Birds 0.003～0.022	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986									Bivalves 0/20 Fish 11/60 Birds 0/10	Bivalves 0/4 Fish 3/12 Birds 0/2	Bivalves － Fish 0.001～0.013 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987									Bivalves 0/20 Fish 10/65 Birds 0/10	Bivalves 0/4 Fish 3/13 Birds 0/2	Bivalves － Fish 0.001～0.020 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988									Bivalves 0/20 Fish 9/65 Birds 0/10	Bivalves 0/4 Fish 3/13 Birds 0/2	Bivalves － Fish 0.001～0.018 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989									Bivalves 5/21 Fish 6/65 Birds 0/10	Bivalves 1/5 Fish 2/13 Birds 0/2	Bivalves 0.002～0.003 Fish 0.001～0.011 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990									Bivalves 5/25 Fish 5/65 Birds 4/10	Bivalves 1/5 Fish 1/13 Birds 1/2	Bivalves 0.002～0.003 Fish 0.003～0.013 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991									Bivalves 5/30 Fish 5/65 Birds 5/10	Bivalves 1/6 Fish 1/13 Birds 1/2	Bivalves 0.001～0.003 Fish 0.006～0.012 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992									Bivalves 5/30 Fish 5/70 Birds 1/10	Bivalves 1/6 Fish 1/14 Birds 1/2	Bivalves 0.001 Fish 0.005～0.011 Birds 0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993									Bivalves 5/30 Fish 5/70 Birds 0/10	Bivalves 1/6 Fish 1/14 Birds 0/2	Bivalves 0.001～0.002 Fish 0.003～0.013 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994									Bivalves 0/30 Fish 4/70 Birds 0/5	Bivalves 0/6 Fish 1/14 Birds 0/1	Bivalves － Fish 0.003～0.008 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995									Bivalves 0/30 Fish 15/70 Birds 0/10	Bivalves 0/6 Fish 4/14 Birds 0/2	Bivalves － Fish 0.001～0.014 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996									Bivalves 0/30 Fish 9/70 Birds 0/10	Bivalves 0/6 Fish 5/14 Birds 0/2	Bivalves － Fish 0.001～0.008 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1998									Bivalves 0/30 Fish 2/70 Birds 0/10	Bivalves 0/6 Fish 1/14 Birds 0/2	Bivalves － Fish 0.001 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2000									Bivalves 0/30 Fish 7/69 Birds 0/10	Bivalves 0/6 Fish 2/14 Birds 0/2	Bivalves － Fish 0.001～0.005 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001									Bivalves 0/30 Fish 10/72 Birds 0/10	Bivalves 0/6 Fish 4/15 Birds 0/2	Bivalves － Fish 0.001～0.003 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	114/114	38/38	0.00000019～ 0.000077	(0.0000004)	183/189	62/63	0.000002～0.027	(0.000002)	Bivalves 38/38 Fish 70/70 Birds 8/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000022～ 0.00048 Fish 0.000006～0.0023 Birds 0.000005～ 0.000058	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	102/102	34/34	0.00041～0.040	(0.00005)					
			2003	36/36	36/36	0.0000015～0.00010	(0.0000007)	185/186	62/62	0.0000006～ 0.0032	(0.0000003)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.000035～ 0.00048 Fish 0.0000029～ 0.00052 Birds 0.0000083～ 0.000066	(Bivalves 0.00000097) (Fish 0.00000097) (Birds 0.00000097)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.00061～ 0.038 C.S. 0.00043～ 0.0064	(W.S. 0.000040) (C.S. 0.000040)					
			2004	29/38	29/38	0.0000020～0.000085	(0.000002)	189/189	63/63	0.0000011～0.017	(0.0000006)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.000020～ 0.00091 Fish 0.0000037～0.0018 Birds 0.00000087～ 0.000043	(Bivalves 0.00000061) (Fish 0.00000061) (Birds 0.00000061)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00054～ 0.022 C.S. 0.00035～ 0.0094	(W.S. 0.000031) (C.S. 0.000031)					
			2005	42/47	42/47	0.000001～0.000039	(0.000001)	189/189	63/63	0.0000008～0.16	(0.0000003)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000029～ 0.00044 Fish 0.0000058～0.0015 Birds 0.0000034～ 0.000024	(Bivalves 0.00000086) (Fish 0.00000086) (Birds 0.00000086)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00067～ 0.014 C.S. 0.00032～ 0.0030	(W.S. 0.000034) (C.S. 0.000034)					
			2006	48/48	48/48	0.00000051～ 0.000052	(0.0000008)	192/192	64/64	0.0000008～0.018	(0.0000004)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000024～ 0.00038 Fish 0.000006～0.00070 Birds 0.000003～ 0.00012	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00055～ 0.020 C.S. 0.00037～ 0.0039	(W.S. 0.00003) (C.S. 0.00003)					
			2007	38/48	38/48	0.0000008～0.000086	(0.0000008)	186/192	63/64	0.0000009～0.027	(0.0000006)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000020～ 0.00035 Fish 0.000003～0.00043 Birds 0.000002～ 0.000026	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00024～ 0.019 C.S. 0.00031～ 0.0034	(W.S. 0.00001) (C.S. 0.00001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2008	44/48	44/48	0.0000006～0.00023	(0.0000005)	192/192	64/64	0.0000007～0.14	(0.0000006)	Bivalves 31/31 Fish 85/85 Birds 8/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000005～0.00033 Fish 0.000003～0.00072 Birds 0.000001～0.000016	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00033～0.018 C.S. 0.00032～0.0065	(W.S. 0.00001) (C.S. 0.00001)					
			2009	49/49	49/49	0.00000043～0.00010	(0.00000006)	190/192	64/64	0.0000006～0.10	(0.0000005)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000017～0.0025 Fish 0.0000024～0.00047 Birds 0.0000014～0.000012	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00033～0.014 C.S. 0.00020～0.0037	(W.S. 0.000008) (C.S. 0.000008)					
			2010	43/49	43/49	0.00000043～0.00070	(0.0000005)	64/64	64/64	0.0000014～0.013	(0.0000004)	Bivalves 6/6 Fish 18/18 Birds 0/2	Bivalves 6/6 Fish 18/18 Birds 0/2	Bivalves 0.000015～0.00016 Fish 0.000005～0.00055 Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00019～0.026 C.S. 0.00022～0.0055	(W.S. 0.00005) (C.S. 0.00005)					
			2013									Bivalves 5/5 Fish 19/19 Birds 1/2	Bivalves 5/5 Fish 19/19 Birds 1/2	Bivalves 0.000012～0.00018 Fish 0.000004～0.00031 Birds 0.000001	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00015～0.012 C.S. 0.0002～0.0024	(W.S. 0.000018) (C.S. 0.000018)					
			2014	42/48	42/48	0.0000002～0.000063	(0.0000002)	62/63	62/63	0.0000007～0.0024	(0.0000002)													
			2015													35/35	35/35	0.00014～0.0068	(0.00004)					
			2018									Bivalves 3/3 Fish 18/18 Birds 1/2	Bivalves 3/3 Fish 18/18 Birds 1/2	Bivalves 0.000010～0.00012 Fish 0.0000011～0.0015 Birds 0.0000025	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	37/37	37/37	0.00008～0.0063	(0.00001)					
			2021	30/47	30/47	0.0000004～0.000033	(0.0000003)	58/60	58/60	0.0000005～0.0032	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000008～0.000093 Fish 0.000001～0.000070 Birds 0.000001～0.000003	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	35/35	35/35	0.00011～0.0030	(0.00003)					
286	1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane (synonym: *p*,*p*′-DDT)	50-29-3	1974	0/55	0/11	－	(0.002～0.1)	20/50	4/10	0.0008～0.0073	(0.01)	Fish 7/49	Fish 2/10	Fish 0.0009～0.0013	(Fish 0.0005～0.005)									286
			1978									Bivalves 10/10 Fish 25/30 Birds 6/7	Bivalves 2/2 Fish 5/6 Birds 1/1	Bivalves 0.002～0.003 Fish 0.003～0.057 Birds 0.002～0.007	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1979									Bivalves 15/15 Fish 34/40 Birds 0/6	Bivalves 3/3 Fish 7/8 Birds 0/1	Bivalves 0.002～0.008 Fish 0.001～0.180 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1980									Bivalves 15/15 Fish 37/50 Birds 8/8	Bivalves 3/3 Fish 8/10 Birds 1/1	Bivalves 0.001～0.005 Fish 0.001～0.074 Birds 0.002～0.013	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1981									Bivalves 9/20 Fish 26/46 Birds 1/7	Bivalves 2/4 Fish 6/9 Birds 1/1	Bivalves 0.001～0.004 Fish 0.001～0.075 Birds 0.006	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 20/20 Fish 40/50 Birds 4/9	Bivalves 4/4 Fish 8/10 Birds 1/2	Bivalves 0.001～0.010 Fish 0.001～0.16 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001～0.003) (Birds 0.001)									
			1983									Bivalves 20/20 Fish 35/50 Birds 6/10	Bivalves 4/4 Fish 8/10 Birds 2/2	Bivalves 0.001～0.007 Fish 0.001～0.068 Birds 0.001～0.005	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 19/20 Fish 45/60 Birds 2/10	Bivalves 4/4 Fish 9/12 Birds 1/2	Bivalves 0.001～0.004 Fish 0.001～0.081 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 10/20 Fish 40/60 Birds 7/10	Bivalves 2/4 Fish 9/12 Birds 2/2	Bivalves 0.001～0.003 Fish 0.001～0.041 Birds 0.001～0.043	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986		0/18	－			6/18	0.0007～0.0135		Bivalves 15/20 Fish 39/60 Birds 6/10	Bivalves 3/4 Fish 8/12 Birds 2/2	Bivalves 0.001～0.003 Fish 0.001～0.072 Birds 0.001～0.004	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987		0/20	－			7/20	0.00020～0.012		Bivalves 10/20 Fish 38/65 Birds 5/10	Bivalves 2/4 Fish 10/13 Birds 1/2	Bivalves 0.001～0.002 Fish 0.001～0.051 Birds 0.001～0.006	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988		0/22	－			2/22	0.00032～0.0014		Bivalves 16/20 Fish 30/65 Birds 5/10	Bivalves 4/4 Fish 7/13 Birds 1/2	Bivalves 0.001～0.002 Fish 0.001～0.068 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989		0/17	－			3/17	0.00085～0.011		Bivalves 14/21 Fish 32/65 Birds 0/10	Bivalves 3/5 Fish 8/13 Birds 0/2	Bivalves 0.001 Fish 0.001～0.076 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990		0/18	－			5/18	0.00044～0.0147		Bivalves 7/25 Fish 24/65 Birds 2/10	Bivalves 2/5 Fish 7/13 Birds 2/2	Bivalves 0.001～0.002 Fish 0.001～0.037 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991		0/18	－			5/18	0.00021～0.013		Bivalves 11/30 Fish 25/65 Birds 6/10	Bivalves 3/6 Fish 7/13 Birds 2/2	Bivalves 0.001～0.002 Fish 0.001～0.088 Birds 0.001～0.005	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992		0/18	－			7/18	0.00030～0.010		Bivalves 0/30 Fish 24/70 Birds 1/10	Bivalves 0/6 Fish 6/14 Birds 1/2	Bivalves － Fish 0.001～0.043 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1993		0/19	—			10/19	0.00007～0.0078		Bivalves 0/30 Fish 27/70 Birds 5/10	Bivalves 0/6 Fish 7/14 Birds 1/2	Bivalves — Fish 0.001～0.095 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994		0/17	—			6/16	0.000082～0.020		Bivalves 0/30 Fish 17/70 Birds 5/5	Bivalves 0/6 Fish 5/14 Birds 1/1	Bivalves — Fish 0.001～0.050 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995		0/18	—			3/17	0.00023～0.013		Bivalves 5/30 Fish 33/70 Birds 1/10	Bivalves 1/6 Fish 9/14 Birds 1/2	Bivalves 0.020～0.024 Fish 0.001～0.044 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996		0/18	—			2/17	0.000154～0.0050		Bivalves 0/30 Fish 38/70 Birds 0/10	Bivalves 0/6 Fish 10/14 Birds 0/2	Bivalves — Fish 0.001～0.035 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1997		0/18	—			1/18	0.00757		Bivalves 0/30 Fish 26/70 Birds 0/10	Bivalves 0/6 Fish 7/14 Birds 0/2	Bivalves — Fish 0.001～0.047 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1998		0/18	—			3/18	0.00028～0.0057		Bivalves 0/30 Fish 35/70 Birds 6/10	Bivalves 0/6 Fish 9/14 Birds 2/2	Bivalves — Fish 0.001～0.005 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999						2/18	0.0018		Bivalves 1/30 Fish 15/70 Birds 5/10	Bivalves 1/6 Fish 6/14 Birds 1/2	Bivalves 0.001 Fish 0.001～0.026 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2000						4/17	0.00020～0.0059		Bivalves 4/30 Fish 16/69 Birds 2/10	Bivalves 1/6 Fish 5/14 Birds 1/2	Bivalves 0.001 Fish 0.001～0.018 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001						3/20	0.00017～0.0032		Bivalves 5/30 Fish 23/72 Birds 3/10	Bivalves 1/6 Fish 6/15 Birds 2/2	Bivalves 0.001 Fish 0.001～0.036 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	114/114	38/38	0.00000025～0.00044	(0.0000002)	189/189	63/63	0.000005～0.097	(0.000002)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000038～0.0012 Fish 0.0000068～0.024 Birds 0.000076～0.0013	(Bivalves 0.0000014) (Fish 0.0000014) (Birds 0.0000014)	102/102	34/34	0.00025～0.022	(0.00008)					
			2003	36/36	36/36	0.0000028～0.00074	(0.0000009)	186/186	62/62	0.000003～0.055	(0.0000004)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.000049～0.0018 Fish 0.0000037～0.0019 Birds 0.00018～0.0014	(Bivalves 0.0000035) (Fish 0.0000035) (Birds 0.0000035)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.00075～0.024 C.S. 0.00031～0.011	(W.S. 0.000046) (C.S. 0.000046)					
			2004	36/38	36/38	0.000002～0.00031	(0.000002)	189/189	63/63	0.000007～0.098	(0.0000005)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.000048～0.0026 Fish 0.0000055～0.053 Birds 0.00016～0.00070	(Bivalves 0.0000011) (Fish 0.0000011) (Birds 0.0000011)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00041～0.037 C.S. 0.00029～0.013	(W.S. 0.000074) (C.S. 0.000074)					
			2005	47/47	47/47	0.000001～0.00011	(0.000001)	189/189	63/63	0.0000051～1.7	(0.00000034)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000066～0.0013 Fish 0.0000038～0.0084 Birds 0.00018～0.00090	(Bivalves 0.0000017) (Fish 0.0000017) (Birds 0.0000017)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00044～0.031 C.S. 0.00025～0.0048	(W.S. 0.000054) (C.S. 0.000054)					
			2006	48/48	48/48	0.0000016～0.00017	(0.0000006)	192/192	64/64	0.0000045～0.13	(0.0000005)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000056～0.0011 Fish 0.000005～0.0030 Birds 0.00011～0.0018	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00035～0.051 C.S. 0.00029～0.0073	(W.S. 0.00006) (C.S. 0.00006)					
			2007	46/48	46/48	0.0000006～0.00067	(0.0000006)	192/192	64/64	0.000003～0.13	(0.0000005)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000049～0.0012 Fish 0.000009～0.0018 Birds 0.00016～0.0019	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00060～0.030 C.S. 0.00023～0.0088	(W.S. 0.00003) (C.S. 0.00003)					
			2008	47/48	47/48	0.0000013～0.0012	(0.0000005)	192/192	64/64	0.0000048～1.4	(0.0000005)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000012～0.0014 Fish 0.000007～0.0029 Birds 0.000056～0.00027	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00076～0.027 C.S. 0.00022～0.015	(W.S. 0.00003) (C.S. 0.00003)					
			2009	49/49	49/49	0.00000081～0.00044	(0.00000006)	192/192	64/64	0.0000019～2.1	(0.0000004)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000046～0.0096 Fish 0.000004～0.0020 Birds 0.000085～0.0029	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00044～0.028 C.S. 0.00020～0.0080	(W.S. 0.00003) (C.S. 0.00003)					
			2010	49/49	49/49	0.000001～0.0075	(0.0000008)	64/64	64/64	0.0000093～0.22	(0.0000009)	Bivalves 6/6 Fish 18/18 Birds 1/2	Bivalves 6/6 Fish 18/18 Birds 1/2	Bivalves 0.000043～0.00047 Fish 0.000007～0.0021 Birds 0.0000015	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00028～0.056 C.S. 0.0003～0.016	(W.S. 0.00003) (C.S. 0.00003)					
			2013									Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000046～0.00089 Fish 0.0000052～0.0033 Birds 0.0000043～0.000046	(Bivalves 0.0000011) (Fish 0.0000011) (Birds 0.0000011)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00020～0.017 C.S. 0.00018～0.0045	(W.S. 0.00004) (C.S. 0.00004)					
			2014	47/48	47/48	0.0000007～0.00038	(0.0000001)	63/63	63/63	0.0000002～0.012	(0.0000002)													
			2015													35/35	35/35	0.00018～0.013	(0.00005)					
			2018									Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000032～0.00028 Fish 0.000002～0.0048 Birds 0.000029～0.000063	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00015～0.014	(0.00001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2021	42/47	42/47	0.0000004～0.00019	(0.0000003)	60/60	60/60	0.0000038～0.017	(0.0000002)	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 0.000028～0.00042 Fish 0.000017～0.0015 Birds 0.000029～0.00012	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	35/35	35/35	0.00016～0.0063	(0.00006)					
	DDVP	See Dimethyl 2,2-dichlorovinyl phosphate																						
	Decabromobiphenyl	See Polybromobiphenyls (Decabromobiphenyl)																						
287	*cis* -Decahydronaphthalene	91-17-8	1984	0/18	0/6	—	(0.02～0.1)	0/18	0/6	—	(0.005～0.022)													287
288	*trans* -Decahydronaphthalene	91-17-8	1984	0/18	0/6	—	(0.01～0.07)	4/18	2/6	0.006～0.181	(0.002～0.016)													288
	Decalin	See Decahydronaphthalene																						
289	Dechlorane pluses	13560-89-9	1976	4/60	1/17	0.4～0.6	(0.28～0.5)	0/53	0/17	—	(0.01～0.03)	Fish 0/2	Fish 0/1	Fish —	(Fish 0.015)									289
			(2023)	39/47	39/47	0.0000017～0.0015	(0.0000016*)	53/60	53/60	0.000009～0.0093	(0.000007*)													
			(2024)	40/47	40/47	0.000002～0.015	(0.000002*)	56/60	56/60	0.000005～0.0079	(0.000002*)	Bivalves 1/3 Fish 11/16 Birds 2/2	Bivalves 1/3 Fish 11/16 Birds 2/2	Bivalves 0.000007 Fish 0.000002～0.000080 Birds 0.000023～0.00026	(Bivalves 0.000001*) (Fish 0.000001*) (Birds 0.000001*)								
289-1	*anti* -Dechlorane plus	135821-74-8	2023	44/47	44/47	0.0000010～0.00041	(0.0000007)	53/60	53/60	0.000007～0.0073	(0.000006)													289-1
			2024	44/47	44/47	0.0000012～0.0044	(0.0000009)	56/60	56/60	0.0000034～0.0058	(0.0000018)	Bivalves 1/3 Fish 11/16 Birds 2/2	Bivalves 1/3 Fish 11/16 Birds 2/2	Bivalves 0.0000054 Fish 0.0000011～0.000051 Birds 0.0000016～0.00016	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)								
289-2	*syn* -Dechlorane plus	35821-03-3	2023	36/47	36/47	0.0000010～0.0011	(0.0000009)	57/60	57/60	0.000001～0.0020	(0.000001)													289-2
			2024	31/47	31/47	0.0000011～0.011	(0.000001)	60/60	60/60	0.0000006～0.0021	(0.0000004)	Bivalves 1/3 Fish 11/16 Birds 2/2	Bivalves 1/3 Fish 11/16 Birds 2/2	Bivalves 0.0000011 Fish 0.0000008～0.000029 Birds 0.0000073～0.00010	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)								
290	Decyl acrylate	2156-96-9	2024	2/41	2/41	0.091～0.11	(0.054)																	290
	Decyl alcohol	See 1-Decanol																						
	DEHP	See Phthalate esters (Bis(2-ethylhexyl) phthalate)																						
291	12-Deoxyerythromycin (synonym: Erythromycin B)	527-75-3	2014	0/17	0/17	—	(0.0069)																	291
	DEPlankton	See Dimethy 2,2,2-trichloro-1-hydroxyethylphosphonate																						
	N -Desmethyltamoxifen	See (*Z*)-2-[4-(1,2-Diphenyl-1-butenyl)phenoxy]-*N* -methyl-ethanamine																						
	Diallylamine	See *N* -2-Propenyl-2-propen-1-amine																						
292	2,4-Diaminoanisole	615-05-4	2015	0/16	0/16	—	(0.16)																	292
293	1,4-Diaminoanthraquinone	128-95-0	1986	0/30	0/10	—	(0.3)	0/30	0/10	—	(0.2)													293
294	4,4'-Diamino-3,3'-dichlorodiphenylmethane	101-14-4	1979	0/39	0/13	—	(0.02～20)	0/39	0/13	—	(0.001～3.0)													294
			1985	0/30	0/10	—	(5)	0/24	0/8	—	(0.4)													
			1989	0/78	0/26	—	(0.0003～0.1)	0/78	0/26	—	(0.001～0.013)													
			1995	0/69	0/23	—	(0.41)	2/69	1/23	0.054～0.11	(0.054)													
			1999	0/108	0/36	—	(0.17)	0/108	0/36	—	(0.031)													
			2005	0/18	0/6	—	(0.030)	7/21	3/7	0.008～0.037	(0.007)													
			2016	0/20	0/20	—	(0.0080)					Bivalves & Fish 5/35	Bivalves & Fish 3/12	Bivalves & Fish 0.00048～0.00080	(Bivalves & Fish 0.00020)									
			2023													0/39	0/13	—	(0.74)					
295	4,4'-Diamino-diphenyl ether	101-80-4	2008	0/33	0/11	—	(0.0032)																	295
			2010					6/38	2/13	0.0029～0.020	(0.0020)													
			2024	0/5	0/5	—	(0.003)																	
296	4,4'-Diaminodiphenylmethane	101-77-9	1985	0/30	0/10	—	(5)	0/24	0/8	—	(1)													296
			1989	0/69	0/23	—	(0.01～0.1)	1/72	1/24	0.0002	(0.0001～0.034)													
			1995	0/69	0/23	—	(0.57)	14/69	6/23	0.036～0.88	(0.029)													
			1998	0/108	0/36	—	(0.57)	31/97	15/33	0.02～2.1	(0.02)													
			2008	25/84	11/28	0.0011～0.016	(0.0012)																	
			2010													0/57	0/19	—	(16)					
	1,2-Diaminoethane	See Ethylenediamine																						
	1,2-Diaminopropane	See Propylenediamine																						
	1,3-Diaminopropane	See Trimethylenediamine																						
297	2,4-Diaminotoluene	95-80-7	1978	0/24	0/8	—	(2～5)	0/24	0/8	—	(1.0～2.2)													297
			1990													0/51	0/17	—	(270)					
			1993	0/102	0/34	—	(0.1)	1/99	1/33	0.0098	(0.005)													
			1996	0/105	0/35	—	(0.04)	4/108	3/36	0.0054～0.0085	(0.005)													
			1999	0/108	0/36	—	(0.1)	1/105	1/35	0.029	(0.003)													
			2005	0/12	0/4	—	(0.0059)	4/18	2/6	0.00078～0.0017	(0.00078)													
			2009	0/72	0/24	—	(0.0062)																	
	2,6-Diaminotoluene	See 2-Methyl-*m* -phenylenediamine																						
	o -Dianisidine	See 3,3'-Dimethoxybenzidine																						
298	Diaveridine	5355-16-8	2014	1/16	1/16	0.01	(0.005)																	298
	Diazinon	See *O* ,*O* -Diethyl *O* -(2-isopropyl-6-methyl-4-pyrimidinyl) thiophosphat																						
	Dibenzo[*a* ,*h*]anthracene	See Polycyclic aromatic hydrocarbons																						
299	5*H* -Dibenzo[*b* ,*f*]azepine-5-carboxamide	298-46-4	2018	16/16	16/16	0.00011～0.054	(0.000021)																	299
300	Dibenzofuran	132-64-9	1983	0/45	0/15	—	(0.2～0.4)	0/45	0/15	—	(0.006～0.027)													300
	2,2'-Dibenzothiazolyl disulfide	See 2,2'-Dithiobis(benzothiazole)																						

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
301	Dibenzothiophene	132-65-0	1983	0/45	0/15	—	(0.05～0.1)	6/45	2/15	0.001 ～0.005	(0.001～0.007)													301
			1998	0/42	0/14	—	(0.02)	28/39	10/13	0.0022～0.14	(0.0021)	Fish 15/39	Fish 5/13	Fish 0.00071～0.013	(Fish 0.00034)									
			2005	0/47	0/47	—	(0.0020)	173/189	61/63	0.00020～0.23	(0.00020)	Bivalves 9/31 Fish 27/80 Birds 0/10	Bivalves 4/7 Fish 7/16 Birds 0/2	Bivalves 0.0001～0.0032 Fish 0.0001～0.0008 Birds —	(Bivalves 0.0001) (Fish 0.0001) (Birds 0.0001)									
			2008	13/48	13/48	0.00058～0.0039	(0.00055)	169/192	61/64	0.00016～0.079	(0.00015)	Bivalves 14/31 Fish 36/85 Birds 0/10	Bivalves 6/7 Fish 11/17 Birds 0/2	Bivalves 0.000098～0.0013 Fish 0.000084～0.00086 Birds —	(Bivalves 0.000082) (Fish 0.000082) (Birds 0.000082)									
	p,*p*'-Dibenzoylquinone dioxime	See *p*-Benzoquinone bis(*O*-benzoyloxime)																						
302	Dibenzyl ether (synonym: [(benzyloxy)methyl]benzene)	103-50-4	1984	3/21	1/7	0.005～0.007	(0.005 ～0.03)	9/21	3/7	0.0006～0.0057	(0.0005～0.0066)													302
			2007	3/24	1/8	0.0052～0.0083	(0.0019)	6/17	3/6	0.00018～0.021	(0.00018)													
			2008													8/17	3/6	0.14～0.59	(0.12)					
303	Dibenzyltoluenes	26898-17-9	1977	0/15	0/5	—	(10～40)	0/15	0/5	—	(0.5～4)													303
			(2007)	13/39	8/13	0.00049～0.0053	(0.0014*)	26/33	9/11	0.0011～0.74	(0.00066*)	Fish &Birds 15/30	Fish &Birds 5/10	Fish &Birds 0.000058～0.036	(Fish &Birds 0.00065*)									
303-1	Dibenzyltoluene (Dta****)		2007	8/39	6/13	0.00013～0.00073	(0.00013)	24/33	9/11	0.00039～0.12	(0.000075)	Fish &Birds 9/30	Fish &Birds 3/10	Fish &Birds 0.00021～0.010	(Fish &Birds 0.000093)									303-1
303-2	Dibenzyltoluene (Dtb****)		2007	5/39	5/13	0.00024～0.00063	(0.00022)	16/33	9/11	0.00056～0.061	(0.00010)	Fish &Birds 6/30	Fish &Birds 2/10	Fish &Birds 0.00025～0.0029	(Fish &Birds 0.00016)									303-2
303-3	Dibenzyltoluene (Dtc****)		2007	5/39	3/13	0.00027～0.0015	(0.00024)	25/33	9/11	0.00029～0.21	(0.000076)	Fish &Birds 9/30	Fish &Birds 3/10	Fish &Birds 0.00033～0.0088	(Fish &Birds 0.00013)									303-3
303-4	Dibenzyltoluene (Dtd****)		2007	3/39	1/13	0.00011～0.00036	(0.000090)	22/33	9/11	0.00011～0.056	(0.000040)	Fish &Birds 8/30	Fish &Birds 3/10	Fish &Birds 0.000087～0.0025	(Fish &Birds 0.000056)									303-4
303-5	Dibenzyltoluene (Dte****)		2007	6/39	4/13	0.00018～0.00059	(0.00017)	23/33	9/11	0.00016～0.085	(0.000079)	Fish &Birds 13/30	Fish &Birds 5/10	Fish &Birds 0.000040～0.0044	(Fish &Birds 0.000033)									303-5
303-6	Dibenzyltoluene (Dtf****)		2007	7/39	5/13	0.000087～0.00033	(0.000071)	22/33	9/11	0.00010～0.041	(0.00010)	Fish &Birds 15/30	Fish &Birds 5/10	Fish &Birds 0.000047～0.0017	(Fish &Birds 0.000044)									303-6
303-7	Dibenzyltoluene (Dtg****)		2007	3/39	3/13	0.00035～0.00038	(0.00035)	22/33	9/11	0.000072～0.050	(0.000059)	Fish &Birds 11/30	Fish &Birds 5/10	Fish &Birds 0.000043～0.0015	(Fish &Birds 0.000035)									303-7
304	1,3-Dibromobenzene	108-36-1	1981	0/18	0/6	—	(0.02～0.05)	0/18	0/6	—	(0.0005)													304
305	1,4-Dibromobenzene	106-37-6	1981	0/18	0/6	—	(0.04～0.1)	0/18	0/6	—	(0.001)													305
306	*o*-Dibromobenzene	583-53-9	1981	0/18	0/6	—	(0.01 ～0.05)	0/18	0/6	—	(0.0002～0.0005)													306
	m-Dibromobenzene	See 1,3-Dibromobenzene																						
	p-Dibromobenzene	See 1,4-Dibromobenzene																						
307	4,4'-Dibromobiphenyl	92-86-4	1997	0/156	0/52	—	(0.031)	0/147	0/49	—	(0.003)	Fish 0/156	Fish 0/50	Fish —	(Fish 0.01)									307
308	1,4-Dibromobutane	110-52-1	2006	1/15	1/5	0.0040	(0.0015)																	308
309	Dibromochloromethane	124-48-1	1980													9/63	3/12	0.1～1	(0.1～50)					309
			1981	12/24	4/8	0.01～3.4	(0.01)	9/24	3/8	0.0013～0.0068	(0.00006)													
			1983													82/108	12/12	0.08～3.5	(0.03～0.5)					
			2012													31/53	13/18	1.8～33	(1.8)					
310	1,2-Dibromo-3-chloropropane	96-12-8	1982	0/27	0/9	—	(2～12)	0/27	0/9	—	(0.012～0.05)													310
			1989	0/66	0/22	—	(0.2)	0/57	0/19	—	(0.007)					0/36	0/12	—	(20)					
			2005	0/126	0/42	—	(0.0030)																	
	Dibromocresyl glycidyl ether	See [(Dibromomethylphenoxy)methyl]oxirane																						
311	1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate (synonym: BRPlankton or Naled)	300-76-5	1984	0/24	0/8	—	(0.5～2)	0/24	0/8	—	(0.03～0.26)													311
312	1,2-Dibromoethane	106-93-4	1976	0/60	0/12	—	(0.2～75)	0/40	0/10	—	(0.005～0.17)	Fish 0/20	Fish 0/4	Fish —	(Fish 0.005)									312
			1982	0/27	0/9	—	(0.3～2)	0/27	0/9	—	(0.0016～0.01)													
			1983													71/108	10/12	1～67	(0.3～1)					
			1997													0/57	0/19	—	(90)					
			1998													0/39	0/13	—	(71)					
			2012	0/21	0/21	—	(0.0037)																	
313	Dibromoethane	74-95-3	1981	0/15	0/5	—	(0.06)	0/15	0/5	—	(0.0003)													313
314	1,2-Dibromoethylene	540-49-8	1981	0/15	0/5	—	(0.5～3)	0/15	0/5	—	(0.003～0.02)													314
315	[(Dibromomethylphenoxy)methyl]oxirane	30171-80-3	1977	0/15	0/7	—	(0.05～0.25)	0/15	0/7	—	(0.006～0.02)													315
316	1,3-Dibromopropane	109-64-8	2006	0/15	0/5	—	(0.0006)																	316
317	Dibromotetrafluoroethane (synonym: Halon 2402)	124-73-2	2006	0/15	0/5	—	(0.01)																	317
318	Dibutyl adipate	105-99-7	1999	0/36	0/12	—	(0.054)	2/36	1/12	0.022～0.023	(0.021)													318
319	Dibutylamine	111-92-2	1986	0/30	0/10	—	(2)	0/30	0/10	—	(0.05)													319
	Di-*n*-butylamine	See Dibutylamine																						
320	2-(Di-*n*-butylamino)-ethanol	102-81-8	2006	2/15	1/5	0.036～0.076	(0.025)									0/15	0/5	—	(18)					320
321	6,6'-Di-*tert*-butyl-4,4'-butylidenedi-*m*-cresol	85-60-9	1981	0/21	0/7	—	(0.1～1)	0/21	0/7	—	(0.01～0.06)													321
322	2,6-Di-*tert*-butyl-4-*sec*-butylphenol	17540-75-9	2011	0/27	0/27	—	(0.00034)	0/105	0/35	—	(0.00082)	Bivalves & Fish 0/33	Bivalves & Fish 0/11	Bivalves & Fish —	(Bivalves & Fish 0.00041)									322
323	2,4-Di-*tert*-butyl-6-(5-chloro-2*H*-benzotriazol-2-yl)phenol	3864-99-1	1980	0/33	0/11	—	(0.4～5)	0/33	0/11	—	(0.02～1)													323
			2005	68/152	25/44	0.000094～0.028	(0.000093)																	
			2006	7/18	4/6	0.00008～0.00023	(0.00007)	18/18	6/6	0.00018～0.041	(0.00010)	Bivalves & Fish 30/30	Bivalves & Fish 10/10	Bivalves & Fish 0.000053～0.0030	(Bivalves & Fish 0.000004)									
	2,6-Di-*tert*-butyl-*p*-cresol	See 2,6-Di-*tert*-butyl-4-metylphenol																						
324	Dibutyl decanedioate	109-43-3	1981	0/21	0/7	—	(0.8～4)	0/21	0/7	—	(0.04～0.4)													324
	Di(butyldiglycol) adipate	See Bis(2-(2-butoxyethoxy)ethyl) adipate																						
325	6,6'-Di-*tert*-butyl-4,4'-dimethyl-2,2'-methylenediphenol	119-47-1	2007	0/30	0/10	—	(0.0070)																	325
			2014					24/36	9/12	0.00002～0.0019	(0.000008)													
	2,6-Di-*tert*-butyl-4-ethylphenol	See 2,6-Bis(1,1-dimethylethyl)-4-ethylphenol																						
326	2,5-Di-*tert*-butyl hydroquinone	88-58-4	1980	0/39	0/13	—	(0.3～10)	0/39	0/13	—	(0.027～0.2)													326

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
327	2,6-Di-*tert* -butyl-4-metylphenol (synonym: BHT or 2,6-Di-*tert* -butyl-4-cresol)	128-37-0	1976	0/68	0/20	—	(0.4～5)	10/68	3/20	0.066～1.69	(0.01～0.04)													327
			1977	0/117	0/39	—	(0.1～5)	17/117	7/39	0.008 ～0.41	(0.008～0.06)	Fish 7/85	Fish 3/29	Fish 0.006～0.069	(Fish 0.004～0.12)									
			1985													29/60	8/10	1.2～20	(1.0～5)					
			1986		0/18	—			7/18	0.0006～0.0609														
			1988		3/22	0.008～0.052			6/22	0.0035～0.15														
			1989		2/16	0.005～0.061			5/16	0.0038～0.075														
			1990		1/18	0.0046			9/18	0.00014～0.0335														
			1991		2/18	0.011～0.043			9/18	0.00049～0.12														
			1992		3/18	0.0066～0.42			13/18	0.00057～0.12														
			1993		4/19	0.028～0.15			15/19	0.00037～0.090														
			1994		3/17	0.011～0.030			11/15	0.00019～0.070														
			1995		2/18	0.025～0.059			14/18	0.00027～0.063														
			1996	0/30	0/10	—	(0.3)	1/33	1/11	0.103	(0.09)	Fish 0/33	Fish 0/11	Fish —	(Fish 0.058)	5/18	3/6	37～70	(32)					
					3/18	0.025～0.19			11/18	0.00039～0.073														
			1997		1/18	0.0730			9/18	0.00074～0.029														
			1998		4/18	0.016～0.092			11/18	0.0002～0.097														
			1999						8/18	0.00093～0.076														
			2000						7/17	0.0012～0.060														
			2001	26/156	10/52	0.060～1.6	(0.050)	36/159	15/53	0.0068～0.077	(0.0064)													
									7/20	0.0018～0.030														
			2005					46/189	23/63	0.00063～0.027	(0.00060)	Bivalves 29/31 Fish 70/80 Birds 7/10	Bivalves 7/7 Fish 15/16 Birds 2/2	Bivalves 0.0010～0.011 Fish 0.0010～0.016 Birds 0.00090～0.0019	(Bivalves 0.00078) (Fish 0.00078) (Birds 0.00078)	W.S. 84/111 C.S. 76/112	W.S. 33/37 C.S. 29/37	W.S. 3.0～3,800 C.S. 3.0～210	(W.S. 2.9) (C.S. 2.9)					
			2008	9/36	9/36	0.0013～0.0078	(0.0011)	51/164	20/56	0.0018～0.30	(0.0017)	Bivalves 18/31 Fish 48/85 Birds 5/10	Bivalves 6/7 Fish 14/17 Birds 1/2	Bivalves 0.00053～0.0018 Fish 0.00050～0.026 Birds 0.0019～0.0025	(Bivalves 0.00050) (Fish 0.00050) (Birds 0.00050)	W.S. 33/34 C.S. 32/37	W.S. 77/86 C.S. 75/10	W.S. 1.6～230 C.S. 1.5～1,000	(W.S. 1.5) (C.S. 1.5)					
			2015	18/21	18/21	0.0067～0.043	(0.0062)	52/63	20/21	0.00038～0.032	(0.00037)	Bivalves & Fish 32/36	Bivalves & Fish 11/12	Bivalves & Fish 0.00036～0.12	(Bivalves & Fish 0.00029)									
			2019	3/29	3/29	0.043～0.10	(0.035)	82/82	29/29	0.00033～0.48	(0.000070)	Bivalves & Fish 23/35	Bivalves & Fish 9/12	Bivalves & Fish 0.00050～0.0065	(Bivalves & Fish 0.00049)									
328	2,4-Di-*tert* -butylphenol	96-76-4	2012	0/14	0/14	—	(0.057)																	328
329	2,6-Di-*tert* -butylphenol	128-39-2	1996	0/33	0/11	—	(0.3)	0/33	0/11	—	(0.071)	Fish 0/33	Fish 0/11	Fish —	(Fish 0.04)									329
			2001	0/159	0/53	—	(0.17)	12/153	4/51	0.0024～0.014	(0.0019)													
330	Di-*n* -butyl phenyl phosphate	2528-36-1	2017	2/21	2/21	0.00096～0.0021	(0.00060)																	330
	Dibutyl phthalate	See Phthalates (Di-*n* -butyl phthalate)																						
	Dibutyl sebacate	See Dibutyl decanedioate																						
	Dibutyltin compounds	See Organotins (synonym: Dibutyltin compounds)																						
	Dichlone	See 2,3-Dichloro-1,4-naphthoquinone																						
331	Dichloroacetic acid	79-43-6	1984	0/21	0/7	—	(2)	0/21	0/7	—	(0.01～0.02)													331
332	2,3-Dichloroaniline	608-27-5	1984	0/18	0/6	—	(0.01～0.1)	0/18	0/6	—	(0.0001～0.012)													332
			2013	0/18	0/18	—	(0.0031)																	
333	2,4-Dichloroaniline	554-00-7	1976	7/68	4/20	0.032～0.53	(0.02～0.3)	12/68	7/20	0.0005～0.034	(0.0005～0.001)													333
			1998	0/39	0/13	—	(0.07)	0/36	0/12	—	(0.008)													
			2013	3/18	3/18	0.0024～0.0028	(0.0011)																	
334	2,5-Dichloroaniline	95-82-9	1984	0/18	0/6	—	(0.05～0.1)	1/18	1/6	0.0006	(0.0006～0.012)													334
			1998	0/39	0/13	—	(0.07)	1/36	1/12	0.010	(0.005)													
			2013	1/18	1/18	0.0022～0.0022	(0.0018)																	
335	2,6-Dichloroaniline	608-31-1	1984	0/18	0/6	—	(0.1～1)	0/18	0/6	—	(0.0098～0.08)													335
			2013	0/18	0/18	—	(0.0015)																	
336	3,4-Dichloroaniline	95-76-1	1976	4/68	2/20	0.24～0.42	(0.04～0.3)	31/68	11/20	0.0045～0.11	(0.0008～0.003)													336
			1984	0/18	0/6	—	(0.03～0.1)	1/18	1/6	0.0016	(0.0003～0.012)													
			1998	0/39	0/13	—	(0.09)	4/39	2/13	0.012～0.015	(0.01)													
			2013	7/18	7/18	0.0032～0.025	(0.0026)																	
337	3,5-Dichloroaniline	626-43-7	1984	0/18	0/6	—	(0.02～0.1)	0/18	0/6	—	(0.0002～0.012)													337
			2013	0/18	0/18	—	(0.0023)																	
338	[*o* -(2,6-Dichloroanilino)phenyl]acetic acid (synonym: Diclofenac)	15307-86-5	2016	15/16	15/16	0.00039～0.076	(0.00017)																	338
	1,3-Dichlorobenzene	See *m* -Dichlorobenzene																						
339	*o* -Dichlorobenzene	95-50-1	1975	0/95	0/19	—	(0.3～3)	0/95	0/19	—	(0.02～0.5)	Fish 0/75	Fish 0/15	Fish —	(Fish 0.05～0.5)					Precipitation 0/24	0/12	－μg/L	(0.3～3)	339
			1980									Bivalves 0/15 Fish 0/50	Bivalves 0/3 Fish 0/10	Bivalves — Fish —	(Bivalves 0.01) (Fish 0.01)									
			1981									Bivalves 0/20 Fish 0/46 Birds 4/7	Bivalves 0/4 Fish 0/9 Birds 1/1	Bivalves — Fish — Birds 0.01～0.05	(Bivalves 0.01) (Fish 0.01～0.02) (Birds 0.01)									
			1982									Bivalves 0/20 Fish 0/50 Birds 5/9	Bivalves 0/4 Fish 0/10 Birds 2/2	Bivalves — Fish — Birds 0.01	(Bivalves 0.01) (Fish 0.01～0.02) (Birds 0.01)									
			1983									Bivalves 0/20 Fish 5/50 Birds 8/10	Bivalves 0/4 Fish 1/10 Birds 2/2	Bivalves — Fish 0.03～0.04 Birds 0.01～0.04	(Bivalves 0.01) (Fish 0.01～0.02) (Birds 0.01)	93/97	12/12	1～50	(1)					
			1984									Bivalves 0/20 Fish 5/60 Birds 6/10	Bivalves 0/4 Fish 1/12 Birds 2/2	Bivalves — Fish 0.02～0.07 Birds 0.01～0.07	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1985									Bivalves 0/20 Fish 5/60 Birds 5/10	Bivalves 0/4 Fish 1/12 Birds 2/2	Bivalves — Fish 0.02～0.06 Birds 0.04～0.06	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1986		3/18	0.02～0.62			8/18	0.0008～0.0053		Bivalves 0/20 Fish 1/60 Birds 3/10	Bivalves 0/4 Fish 1/12 Birds 1/2	Bivalves — Fish 0.01 Birds 0.01～0.02	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1987		5/20	0.0022～0.41			15/20	0.00010～0.057														
			1988		3/22	0.0043～0.23			10/22	0.00028～0.013		Bivalves 0/20 Fish 0/65 Birds 0/10	Bivalves 0/4 Fish 0/13 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1989		6/17	0.009～0.16			12/17	0.00022～0.020														

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1990		5/18	0.012～0.045			7/18	0.00035～0.0458		Bivalves 0/25 Fish 0/65 Birds 0/10	Bivalves 0/5 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1991		4/18	0.0049～0.034			14/18	0.00063～0.056														
			1992		7/18	0.0019～0.29			14/18	0.00034～0.048		Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1993		6/19	0.004～0.087			17/19	0.00020～0.081														
			1994		3/17	0.010～0.21			15/17	0.00038～0.046		Bivalves 0/30 Fish 0/70 Birds 0/5	Bivalves 0/6 Fish 0/14 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1995		5/18	0.005～0.029			15/18	0.00040～0.060														
			1996		7/18	0.0032～0.085			15/18	0.00029～0.039		Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1997		6/18	0.0024～0.034			14/18	0.00027～0.042														
			1998		2/18	0.0076～0.013			14/18	0.00050～0.045														
			1999						14/18	0.00026～0.032		Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)	20/30	7/10	34～420	(29)					
			2000						9/17	0.00042～0.023														
			2001						11/20	0.00033～0.072														
			2002	26/114	10/38	0.0005～0.2	(0.0004)	172/186	59/62	0.00002～0.038	(0.00002)					38/84	19/28	21～2,200	(15)					
			2005	0/24	0/8	－	(0.007)																	
			2011	5/31	5/31	0.0075～0.1	(0.0074)																	
			2016	0/24	0/24	－	(0.0074)	0/60	0/20	－	(0.0025)	Bivalves & Fish 0/38	Bivalves & Fish 0/13	Bivalves & Fish －	(Bivalves & Fish 0.0012)	40/42	14/14	9.0～430	(7.1)					
340	*m* -Dichlorobenzene	541-73-1	1975	0/89	0/19	－	(0.1～2)	3/95	1/19	0.01～0.05	(0.01～0.5)	Fish 0/75	Fish 0/15	Fish －	(Fish 0.02～0.5)					Precipitation 0/24	0/12	－μg/L	(0.1～2)	340
			1980									Bivalves 0/15 Fish 0/50	Bivalves 0/3 Fish 0/10	Bivalves － Fish －	(Bivalves 0.01) (Fish 0.01)									
			1981									Bivalves 0/20 Fish 0/46 Birds 0/7	Bivalves 0/4 Fish 0/9 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01～0.02) (Birds 0.01)									
			1982									Bivalves 0/20 Fish 0/50 Birds 0/9	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1983									Bivalves 0/20 Fish 5/50 Birds 5/10	Bivalves 0/4 Fish 1/10 Birds 1/2	Bivalves － Fish 0.01～0.02 Birds 0.01～0.04	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)	24/95	9/12	1～9.8	(1)					
			1984									Bivalves 0/20 Fish 5/60 Birds 5/10	Bivalves 0/4 Fish 1/12 Birds 1/2	Bivalves － Fish 0.02～0.09 Birds 0.03～0.08	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1985									Bivalves 0/20 Fish 5/60 Birds 5/10	Bivalves 0/4 Fish 1/12 Birds 1/2	Bivalves － Fish 0.02～0.06 Birds 0.04～0.06	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1986		1/18	0.06			4/18	0.0001～0.0020		Bivalves 0/20 Fish 0/60 Birds 2/10	Bivalves 0/4 Fish 0/12 Birds 1/2	Bivalves － Fish － Birds 0.01～0.02	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1987		1/20	0.036			9/20	0.00012～0.0075														
			1988		4/22	0.0035～0.028			3/22	0.00030～0.0023		Bivalves 0/20 Fish 0/65 Birds 0/10	Bivalves 0/4 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1989		3/17	0.003～0.019			4/17	0.00076～0.014														
			1990		4/18	0.0038～0.022			4/18	0.00027～0.0130		Bivalves 0/25 Fish 0/65 Birds 0/10	Bivalves 0/5 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1991		3/18	0.00011～0.012			9/18	0.000083～0.017														
			1992		5/18	0.00011～0.025			12/18	0.000075～0.016		Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1993		3/19	0.00013～0.028			15/19	0.000038～0.018														
			1994		2/17	0.017～0.018			10/17	0.000058～0.014		Bivalves 0/30 Fish 0/70 Birds 0/5	Bivalves 0/6 Fish 0/14 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1995		4/18	0.0002～0.012			11/18	0.000065～0.021														
			1996		7/18	0.0041～0.046			13/18	0.000046～0.034		Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1997		3/18	0.002～0.049			11/18	0.000021～0.016														
			1998		2/18	0.0035～0.013			9/18	0.0002～0.010														
			1999						6/18	0.00020～0.012		Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)	9/33	4/11	23～370	(21)					
			2000						6/17	0.00028～0.0058														
			2001						6/20	0.00011～0.014														
			2016	0/24	0/24	－	(0.0062)	0/60	0/20	－	(0.0016)	Bivalves & Fish 0/38	Bivalves & Fish 0/13	Bivalves & Fish －	(Bivalves & Fish 0.0010)	32/42	13/14	7.0～260	(6.5)					
341	*p* -Dichlorobenzene	106-46-7	1975	2/95	2/19	0.5～1.0	(0.3～3)	1/95	1/19	0.03	(0.02～0.5)	Fish 0/75	Fish 0/15	Fish －	(Fish 0.05～0.5)					Precipitation 0/24	0/12	－μg/L	(0.3～3)	341
			1980									Bivalves 0/15 Fish 0/50	Bivalves 0/3 Fish 0/10	Bivalves － Fish －	(Bivalves 0.01) (Fish 0.01)									
			1981									Bivalves 0/20 Fish 0/46 Birds 2/7	Bivalves 0/4 Fish 0/9 Birds 1/1	Bivalves － Fish － Birds 0.01	(Bivalves 0.01) (Fish 0.01～0.02) (Birds 0.01)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1982									Bivalves 2/20 Fish 0/50 Birds 0/9	Bivalves 1/4 Fish 0/10 Birds 0/2	Bivalves 0.01 Fish － Birds －	(Bivalves 0.01) (Fish 0.01～0.02) (Birds 0.01)									
			1983									Bivalves 4/20 Fish 5/50 Birds 0/10	Bivalves 1/4 Fish 1/10 Birds 0/2	Bivalves 0.01～0.02 Fish 0.01 Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)	95/95	12/12	2.1～880	(1)					
			1984									Bivalves 0/20 Fish 1/60 Birds 2/10	Bivalves 0/4 Fish 1/12 Birds 1/2	Bivalves － Fish 0.01 Birds 0.01	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1985									Bivalves 0/20 Fish 2/60 Birds 5/10	Bivalves 0/4 Fish 1/12 Birds 1/2	Bivalves － Fish 0.02 Birds 0.02～0.03	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1986		7/18	0.03～0.46			12/18	0.0012～0.0267		Bivalves 0/20 Fish 5/60 Birds 5/10	Bivalves 0/4 Fish 1/12 Birds 1/2	Bivalves － Fish 0.01～0.05 Birds 0.02～0.03	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1987		10/20	0.012～0.51			15/20	0.00030～0.055														
			1988		8/22	0.062～1.83			15/22	0.00058～0.032		Bivalves 0/20 Fish 0/65 Birds 1/10	Bivalves 0/4 Fish 0/13 Birds 1/2	Bivalves － Fish － Birds 0.01	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1989		6/16	0.023～2.5			13/16	0.0023～0.088														
			1990		8/18	0.009～1.15			10/18	0.00113～0.0728		Bivalves 0/25 Fish 10/65 Birds 5/10	Bivalves 0/5 Fish 2/13 Birds 1/2	Bivalves － Fish 0.01～0.21 Birds 0.02	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1991		12/18	0.0035～0.18			16/18	0.0019～0.15														
			1992		13/18	0.005～0.42			16/18	0.00038～0.13		Bivalves 0/30 Fish 6/70 Birds 0/10	Bivalves 0/6 Fish 2/14 Birds 0/2	Bivalves － Fish 0.01～0.06 Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1993		13/19	0.0076～1.0			18/19	0.00035～0.15														
			1994		9/17	0.027～0.28			16/17	0.00067～0.075		Bivalves 0/30 Fish 5/70 Birds 0/5	Bivalves 0/6 Fish 1/14 Birds 0/1	Bivalves － Fish 0.10～0.19 Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1995		9/18	0.0051～0.44			17/18	0.00098～0.12														
			1996		12/18	0.0067～0.1752			16/18	0.0010～0.209		Bivalves 0/30 Fish 2/70 Birds 0/10	Bivalves 0/6 Fish 1/14 Birds 0/2	Bivalves － Fish 0.01 Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1997		12/18	0.0071～0.242			17/18	0.00083～0.074														
			1998		11/18	0.0090～0.094			17/18	0.0011～0.073														
			1999						15/18	0.0012～0.13		Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)	36/43	14/15	160～17,000	(130)					
			2000						14/17	0.0025～0.036														
			2001						16/20	0.00031～0.18														
			2005	7/24	3/8	0.011～0.055	(0.010)																	
			2016	6/24	6/24	0.0069～0.044	(0.0065)	0/34	0/15	－	(0.017)	Bivalves & Fish 0/38	Bivalves & Fish 0/13	Bivalves & Fish －	(Bivalves & Fish 0.0017)	42/42	14/14	40～2700	(10)					
342	3,3'-Dichlorobenzidine	91-94-1	1979	0/21	0/7	－	(0.01～7)	0/21	0/7	－	(0.0003～0.9)													342
			1989	2/78	1/26	0.00004～0.00018	(0.00002～0.1)	2/78	2/26	0.003～0.014	(0.00006～0.02)													
			1995	0/69	0/23	－	(0.42)	0/69	0/23	－	(0.054)													
			1999	0/108	0/36	－	(0.17)	3/108	1/36	0.12～0.17	(0.031)													
			2003	1/57	1/19	0.014	(0.010)																	
343	2,6-Dichlorobenzonitrile (synonym: Dichlobenil or DBN)	1194-65-6	2006													21/21	7/7	0.10～0.76	(0.04)					343
344	1-{2-[(2,4-Dichlorobenzyl)oxy]-2-(2,4-dichlorophenyl)ethyl}-1*H*-imidazole	22916-47-8	2023	18/30	18/30	0.00048～0.013	(0.00046)																	344
	1,1-Dichloro-2,2-bis(4-chlorophenyl) ethane	See *p,p'*-DDD																						
	Dichlorobromomethane	See Bromodichloromethane																						
345	3,4-Dichloro-1- butene	760-23-6	1997	0/36	0/12	－	(0.011)	0/36	0/12	－	(0.014)					0/57	0/19	－	(60)					345
			1998													1/36	1/12	80	(60)					
	3,3'-Dichloro-4,4'-diaminodiphenyl methane	See 4,4'-Diamino-3,3'-dichlorodiphenylmethane																						
	2,2-Dichloro-1,2-dibromoethyl dimethyl phosphate	See 1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate																						
	2,2'-Dichlorodiethyl Ether	See Bis(2-chloroethyl) ether																						
346	Dichlorodifluoromethane (synonym: CFC-12)	75-71-8	1976													45/115	13/27	310～3,300	(250～1,000)					346
			1977													38/97	26/45	43～1,200	(19～2,000)					
347	1-(3,5-Dichloro-2,4-difluorophenyl)-3-(2,6-difluorobenzoyl)urea (synonym: Teflubenzuron)	83121-18-0	2006	0/18	0/6	－	(0.011)									0/15	0/5	－	(0.20)					347
348	1,1-Dichloroethane	75-34-3	1977	0/3	0/1	－	(0.05)	0/3	0/1	－	(0.0003)													348
			1979													0/36	0/13	－	(200～10,000)					
			1987	11/66	4/22	0.005～0.030	(0.005)	4/60	2/20	0.00011～0.00027	(0.00011)					6/73	4/12	17～90	(10)					
			1988	36/129	14/43	0.005～0.08	(0.005)	4/117	2/39	0.00014～0.00048	(0.0001)													
			1999	31/156	12/52	0.0030～0.072	(0.003)	9/138	3/46	0.0087～0.028	(0.0023)					5/21	2/7	11～24	(10)					
349	1,2-Dichloroethane	107-06-2	1976	0/60	0/13	－	(40～200)	0/40	0/11	－	(1.0～3.4)	Fish 0/10	Fish 0/2	Fish －	(Fish 8.7)									349
			1979													6/45	2/16	60～10,000	(3～10,000)					
			1980													18/81	3/15	13～870	(13～7,000)					
			1987	30/78	10/26	0.03～2.5	(0.02)	6/63	3/21	0.00052～0.00065	(0.0005)					60/73	11/12	10～6,600	(10)					
			1988	66/141	25/47	0.02～3.4	(0.02)	5/126	3/42	0.00062～0.0028	(0.0005)					39/68	8/12	45～2,200	(40)					
			1989	50/78	17/26	0.002～0.87	(0.001～0.04)	38/78	15/26	0.00003～0.0029	(0.00001～0.0005)					22/37	9/13	29～1,500	(3.3～130)					
			1990	48/90	18/30	0.012～0.81	(0.01)	1/96	1/32	0.0027	(0.0005)					48/58	16/19	11～3,600	(10)					
			1991	54/96	18/32	0.01～2.2	(0.01)	1/99	1/33	0.0005	(0.0005)					52/60	18/20	12～860	(10)					
			1992	39/102	14/34	0.013～3.4	(0.01)	11/99	5/33	0.0004～0.0007	(0.0004)					55/62	19/21	5.9～3,800	(4)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1993													69/80	23/26	4～2,700	(4)					
			1994													73/80	25/26	7.6～1,100	(4.6)	Outdoor air 24/24 Indoor air 71/71 Food 0/81	Outdoor air 8/8 Indoor air 8/8 Food 0/9	Outdoor air 14～410ng/m^3 Indoor air 6～1,200ng/m^3 Food －ng/g-wet	(Outdoor air 10) (Indoor air 6) (Food 1.5)	
			1995													66/79	22/26	15～1,800	(4)	Outdoor air 24/24 Indoor air 70/70 Food 0/81	Outdoor air 8/8 Indoor air 8/8 Food 0/9	Outdoor air 15～1,800 ng/m^3 Indoor air 8.1～1,700 ng/m^3 Food －ng/g-wet	(Outdoor air 0.1) (Indoor air 0.1) (Food 2.5)	
			1996													77/89	26/29	5～2,300	(5)	Outdoor air 22/25 Indoor air 73/78 Food 2/81	Outdoor air 7/8 Indoor air 9/9 Food 1/9	Outdoor air 5～390 ng/m^3 Indoor air 4.5～370ng/m^3 Food 5.4～6.3ng/g-wet	(Outdoor air 5) (Indoor air 2.9) (Food 1)	
			1997													96/97	31/32	10～2,700	(5)	Outdoor air 26/27 Indoor air 73/79 Food 3/81	Outdoor air 8/9 Indoor air 9/9 Food 1/9	Outdoor air 10～1,200ng/m^3 Indoor air 13～1,850 ng/m^3 Food 1.6～1.9ng/g-wet	(Outdoor air 5) (Indoor air 8) (Food 1)	
			1998													102/102	32/32	4.8～1,200	(4)	Outdoor air 28/28 Indoor air 73/73 Food 0/81	Outdoor air 9/9 Indoor air 9/9 Food 0/9	Outdoor air 22～1,200ng/m^3 Indoor air 11～410ng/m^3 Food －ng/g-wet	(Outdoor air 4) (Indoor air 10) (Food 1)	
			1999													101/101	31/31	1.6～1,100	(1.2)	Outdoor air 27/27 Indoor air 71/72 Food 0/72	Outdoor air 8/8 Indoor air 8/8 Food 0/8	Outdoor air 1.6～540ng/m^3 Indoor air 9.2～410ng/m^3 Food －ng/g-wet	(Outdoor air 1.2) (Indoor air 5) (Food 1)	
			2000													84/84	29/29	8.1～380	(1.2)	Outdoor air 26/26 Indoor air 70/70	Outdoor air 8/8 Indoor air 8/8	Outdoor air 9.0～380ng/m^3 Indoor air 2～1,100ng/m^3	(Outdoor air 1.2) (Indoor air 1)	
			2001													97/98	28/28	2.3～620	(0.9)	Outdoor air 24/24 Indoor air 52/54	Outdoor air 7/7 Indoor air 7/7	Outdoor air 9.3～430ng/m^3 Indoor air 9.1～300ng/m^3	(Outdoor air 0.9) (Indoor air 6.4)	
350	1,1-Dichloroethene	75-35-4	1979	0/21	0/7	－	(0.028～0.3)	0/21	0/7	－	(0.0003～0.002)													350
			2013													8/51	4/17	20～2,700	(19)					
351	1,2-Dichloroethenes	156-59-2 156-60-5	(1987)													19/73	7/12	10～160	(10)					351
351-1	*cis* -Dichloroethylene	156-59-2	1977	0/3	0/1	－	(0.06)	0/3	0/1	－	(0.0003)													351-1
			1987	24/66	8/22	0.005～0.54	(0.005)	1/69	1/23	0.00033	(0.0002)													
351-2	*trans* -1,2-Dichloroethylene	156-60-5	1977	0/3	0/1	－	(0.03)	0/3	0/1	－	(0.0002)													351-2
			1987	6/78	2/26	0.077～0.23	(0.01)	3/78	1/26	0.0013～0.0079	(0.00026)													
352	1,1-Dichloro-1-fluoroethane (synonym: HCFC-141b)	1717-00-6	2003													51/51	17/17	73～1,400	(4)					352
353	Dichloromethane	75-09-2	1979													25/46	10/17	70～1,500	(6～10,000)					353
			1980													47/135	12/25	26～800	(5～8,000)					
			1983													99/101	12/12	2～5,600	(1～10)					
			1998													42/42	14/14	280～24,000	(70)					
354	3-[2,4-Dichloro-5-(1-methylethoxy) phenyl]-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2-(3*H*)-one	19666-30-9	1981	0/15	0/5	－	(0.001～0.2)	0/15	0/5	－	(0.001～0.02)													354
355	2,3-Dichloro-1,4-naphthoquinone (synonym: Dichlone)	117-80-6	1982	0/24	0/8	－	(0.08～0.15)	0/24	0/8	－	(0.006～0.033)													355
356	1,2-Dichloro-3-nitrobenzene	3209-22-1	1981	0/21	0/7	－	(0.03)	0/21	0/7	－	(0.0015)													356
			2005	0/15	0/5	－	(0.012)	0/15	0/5	－	(0.0040)													
357	1,2-Dichloro-4-nitrobenzene	99-54-7	1981	0/21	0/7	－	(0.02)	0/21	0/7	－	(0.001)													357
			2014	0/16	0/16	－	(0.008)	0/33	0/11	－	(0.00061)													
	1,3-Dichloro-4-nitrobenzene	See 2,4-Dichloro-1-nitrobenzene																						
358	1,4-Dichloro-2-nitrobenzene	89-61-2	1981	0/21	0/7	－	(0.02)	0/21	0/7	－	(0.001)													358
			1994	0/27	0/9	－	(0.05)	0/27	0/9	－	(0.012)	Fish 0/27	Fish 0/9	Fish －	(Fish 0.003)	0/27	0/9	－	(11)					
			2003	0/72	0/24	－	(0.05)	0/60	0/20	－	(0.0025)													
	2,3-Dichloronitrobenzene	See 1,2-Dichloro-3-nitrobenzene																						
359	2,4-Dichloro-1-nitrobenzene	611-06-3	1981	0/21	0/7	－	(0.02)	0/21	0/7	－	(0.001)													359
			1994	0/27	0/9	－	(0.06)	0/27	0/9	－	(0.0085)	Fish 0/27	Fish 0/9	Fish －	(Fish 0.003)	0/27	0/9	－	(14)					
			2003	0/72	0/24	－	(0.06)	1/61	1/21	0.0063	(0.0019)													
			2017	0/21	0/21	－	(0.022)																	
	2,4-Dichloronitrobenzene	See 2,4-Dichloro-1-nitrobenzene																						
	2,5-Dichloronitrobenzene	See 1,4-Dichloro-2-nitrobenzene																						
	3,4-Dichloronitrobenzene	See 1,2-Dichloro-4-nitrobenzene																						
360	3,5-Dichloronitrobenzene	618-62-2	1981	0/21	0/7	－	(0.006)	0/21	0/7	－	(0.0003)													360
361	4,5-Dichloro-2-octylisothiazol-3(2*H*)-one	64359-81-5	2023	2/30	2/30	0.0030～0.0058	(0.00026)																	361
362	1,1-Dichloro-2,2,3,3,3-pentafluoro propane (synonym: HCFC-225ca)	422-56-0	2003													38/42	15/16	8.5～4,500	(4)					362
	1,3-Dichloro-1,1,2,2,3-pentafluoro propane	See 1,3-Dichloro-1,1,2,2,3-pentafluoropropane (synosym: HCFC-225cb)																						

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
363	1,3-Dichloro-1,1,2,2,3-pentafluoro propane (synonym: HCFC-225cb)	507-55-1	2003													32/55	13/19	17～4,400	(15)					363
	3,3-Dichloro-1,1,1,2,2-pentafluoropropane	See 1,1-Dichloro-2,2,3,3,3-pentafluoropropane (synonym: HCFC-225ca)																						
364	2,3-Dichlorophenol	576-24-9	1978	0/24	0/8	—	(0.2～40)	0/24	0/8	—	(0.005～4)													364
			1996	0/33	0/11	—	(0.07)	0/33	0/11	—	(0.011)					0/18	0/6	—	(10)					
365	2,4-Dichlorophenol	120-83-2	1978	0/24	0/8	—	(0.2～40)	0/24	0/8	—	(0.005～4)													365
			1996	0/33	0/11	—	(0.07)	0/33	0/11	—	(0.011)					0/18	0/6	—	(10)					
			2015	2/21	2/21	0.0033～0.0083	(0.0019)																	
366	2,5-Dichlorophenol	583-78-8	1978	0/24	0/8	—	(0.2～40)	0/24	0/8	—	(0.005～4)													366
			1996	0/33	0/11	—	(0.07)	0/33	0/11	—	(0.011)					0/18	0/6	—	(10)					
367	2,6-Dichlorophenol	87-65-0	1978	0/24	0/8	—	(0.2～40)	0/24	0/8	—	(0.005～4)													367
			1996	0/33	0/11	—	(0.07)	0/33	0/11	—	(0.011)					0/18	0/6	—	(10)					
368	3,4-Dichlorophenol	95-77-2	1978	0/24	0/8	—	(1～40)	0/24	0/8	—	(0.03～4)													368
			1996	0/33	0/11	—	(0.07)	0/33	0/11	—	(0.011)					0/18	0/6	—	(10)					
369	3,5-Dichlorophenol	591-35-5	1978	0/24	0/8	—	(1～40)	0/24	0/8	—	(0.03～4)													369
			1996	0/33	0/11	—	(0.07)	0/33	0/11	—	(0.011)					0/18	0/6	—	(10)					
370	2,4-Dichlorophenoxy acetic acid (synonym: 2,4-D or 2,4-PA)	94-75-7	1983	0/45	0/15	—	(0.05～1)	0/45	0/15	—	(0.001～0.076)													370
			1996	0/33	0/11	—	(0.2)	0/33	0/11	—	(0.022)													
			2007	63/84	10/12	0.00014～0.39	(0.00010)																	
			2014	19/20	19/20	0.00018～0.0077	(0.00008)	3/66	1/22	0.000016～0.000044	(0.000014)													
371	3-(3,4-Dichlorophenyl)-1,1-dimethyl urea (synonym: Diuron or DCMU)	330-54-1	2006	27/30	9/10	0.0017～0.23	(0.0006)					Bivalves & Fish 28/30	Bivalves & Fish 10/10	Bivalves & Fish 0.0000020～0.00020	(Bivalves & Fish 0.0000019)									371
372	2,4-Dichlorophenyl 3-methoxy-4-nitrophenyl ether	32861-85-1	1982	5/54	2/18	0.002～0.003	(0.001～0.2)	0/54	0/18	—	(0.0002～0.03)													372
			1991	0/57	0/19	—	(0.3)	0/54	0/18	—	(0.067)					0/54	0/18	—	(40)					
373	(1*S*,4*S*)-4-(3,4-Dichlorophenyl)-*N*-methyl-1,2,3,4-tetrahydronaphthalen-1-amine (synonym: Sertraline)	79617-96-2	2016	7/16	7/16	0.00044～0.0036	(0.00044)																	373
374	*N*-3,5-Dichlorophenyl-5-methyl-5-vinyl-1,3-oxazolidine-2,4-dione (synonym: Vinclozolin)	50471-44-8	2005	0/126	0/42	—	(0.0050)	1/105	1/35	0.0022	(0.00043)	Fish 0/27	Fish 0/9	Fish —	(Fish 0.0033)									374
	2,4-Dichlorophenyl-4'-nitrophenyl ether	See Nitrofen																						
375	2-(2,4- Dichlorophenyl)-1-(1*H*-1,2,4-triazol-1-yl)-2-hexanol (synonym: Hexaconazole)	79983-71-4	2006	0/18	0/6	—	(0.006)									0/15	0/5	—	(1.6)					375
376	1,2-Dichloropropane	78-87-5	1976	0/60	0/13	—	(40～300)	0/40	0/11	—	(1.0～3.4)	Fish 0/10	Fish 0/2	Fish —	(Fish 8.7)									376
			1989	20/78	8/26	0.00001～0.14	(0.000005～0.04)	9/78	3/26	0.00016～0.010	(0.00001～0.002)					11/36	4/13	6.5～1,400	(3.3～145)					
			1990	24/93	9/31	0.011～0.086	(0.01)	0/32	0/96	—	(0.0004)					23/58	11/19	22～530	(20)					
			1991													23/61	11/21	23～780	(20)					
			1992													44/64	16/22	6～920	(6)					
			1993													47/68	18/23	4.3～1,700	(4)					
			1994													56/77	20/25	5～790	(5)	Outdoor air 17/24 Indoor air 63/63 Food 0/81	Outdoor air 7/8 Indoor air 7/7 Food 0/9	Outdoor air 15～790 ng/m^3 Indoor air 2～1,600ng/m^3 Food —ng/g-wet	(Outdoor air 10) (Indoor air 1.5) (Food 1)	
			1995													59/77	20/26	4.6～930	(4)	Outdoor air 19/27 Indoor air 66/72 Food 0/81	Outdoor air 7/9 Indoor air 8/8 Food 0/9	Outdoor air 10～140 ng/m^3 Indoor air 4～1,000ng/m^3 Food —ng/g-wet	(Outdoor air 10) (Indoor air 4) (Food 10)	
			1996													69/84	24/28	4～460	(4)	Outdoor air 23/24 Indoor air 63/81 Food 0/81	Outdoor air 8/8 Indoor air 8/9 Food 0/9	Outdoor air 4～190 ng/m^3 Indoor air 10～530ng/m^3 Food —ng/g-wet	(Outdoor air 4) (Indoor air 10) (Food 1)	
			1997													93/97	31/32	4.6～1,900	(4)	Outdoor air 26/27 Indoor air 73/73 Food 0/81	Outdoor air 9/9 Indoor air 9/9 Food 0/9	Outdoor air 4.6～770 ng/m^3 Indoor air 2.5～910ng/m^3 Food —ng/g-wet	(Outdoor air 4) (Indoor air 0.2) (Food 1)	
			1998													82/86	29/30	1.5～720	(1.4)	Outdoor air 20/20 Indoor air 56/56 Food 0/81	Outdoor air 7/7 Indoor air 7/7 Food 0/9	Outdoor air 5～720 ng/m^3 Indoor air 5～610ng/m3 Food —ng/g-wet	(Outdoor air 1.4) (Indoor air 1.2) (Food 1)	
			1999													77/79	26/26	2.1～780	(1.2)	Outdoor air 19/21 Indoor air 54/55 Food 0/72	Outdoor air 7/7 Indoor air 8/8 Food 0/8	Outdoor air 2.1～19,000 ng/m^3 Indoor air 3.9～420ng/m^3 Food —ng/g-wet	(Outdoor air 1.2) (Indoor air 1.2) (Food 1)	
			2000													74/77	27/28	1.2～560	(1.1)	Outdoor air 20/20 Indoor air 66/67	Outdoor air 8/8 Indoor air 8/8	Outdoor air 1.2～340ng/m^3 Indoor air 2.0～600ng/m^3	(Outdoor air 1.1) (Indoor air 1)	

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2001													92/92	28/28	2.0～200	(0.9)	Outdoor air 26/26 Indoor air 51/52	Outdoor air 7/7 Indoor air 6/6	Outdoor air 8.6～200ng/m^3 Indoor air 4～300ng/m^3	(Outdoor air 0.9) (Indoor air 4)	
377	2,2-Dichloropropanoic acid and its salts	75-99-0、127-20-8 etc.	1980	0/24	0/8	—	(10～50)	0/24	0/8	—	(0.5～0.68)													377
			1984	2/21	1/7	1	(0.5～10)	0/21	0/7	—	(0.01～0.06)													
378	1,3-Dichloro-2-propanol	96-23-1	1987	3/87	1/29	3.1～4.0	(1)	0/81	0/27	—	(0.09)	Fish 0/87	Fish 0/27	Fish —	(Fish 0.02)	0/73	0/12	—	(40)					378
			1995	0/33	0/11	—	(2)	0/33	0/11	—	(0.2)					1/18	1/6	5	(5)					
			2011													20/37	9/13	0.82～7.9	(0.80)					
	2,3-Dichloro-1-propanol	See 2,3-Dichloropropan-1-ol																						
379	2,3-Dichloropropan-1-ol	616-23-9	1987	0/87	0/29	—	(2)	0/81	0/27	—	(0.09)	Fish 0/87	Fish 0/27	Fish —	(Fish 0.03)	0/73	0/12	—	(40)					379
380	1,3-Dichloropropene (synonym: D-D)	542-75-6	1984	0/21	0/7	—	(0.5～4)	0/21	0/7	—	(0.002～0.07)													380
380-1	*cis*-1,3-Dichloropropene		2004	0/42	0/14	—	(0.009)									18/60	8/20	9～100	(9)					380-1
380-2	*trans*-1,3-Dichloropropene		2004	0/42	0/14	—	(0.008)									13/60	7/20	10～70	(10)					380-2
	2,3-Dichloro-1-propene	See 2,3-dichloropropene																						
381	2,3-Dichloropropene	78-88-6	1988	0/66	0/22	—	(0.5)	0/66	0/22	—	(0.0042)					0/72	0/12	—	(200)					381
382	3',4'-Dichloropropionanilide (synonym: Propanoyl or DCPA)	709-98-8	1980	0/30	0/10	—	(0.1～10)	0/30	0/10	—	(0.005～0.1)													382
383	2,4'-Dichloro-*alpha*-(5-pyrimidinyl)benzhydryl alcohol (synonym: Fenarimol)	60168-88-9	2006	0/15	0/5	—	(0.0018)									0/15	0/5	—	(2.2)					383
384	2,4-Dichlorotoluene	95-73-8	1981	0/21	0/7	—	(6～60)	0/21	0/7	—	(0.15)													384
			1997	0/36	0/12	—	(0.4)	0/33	0/11	—	(0.0093)													
385	2,6-Dichlorotoluene	118-69-4	1981	0/21	0/7	—	(8～80)	0/21	0/7	—	(0.2)													385
386	3,4-Dichlorotoluene	95-75-0	1981	0/21	0/7	—	(10～100)	0/21	0/7	—	(0.25)													386
387	3,5-Dichlorotriclosan	53555-01-4	1995	0/33	0/11	—	(0.05)	1/33	1/11	0.0080	(0.0056)	Fish 1/33	Fish 1/11	Fish 0.018	(Fish 0.0089)									387
388	2,2-Dichloro-1,1,1-trifluoroethane (synonym: HCFC-123)	306-83-2	2003													10/27	5/10	3～320	(3)					388
	2,2-Dichloro-2,2,2-trifluoroethane	See 2,2-Dichloro-1,1,1-trifluoroethan																						
	Dichlorvos	See Dimethyl 2,2-dichlorovinyl phosphate																						
	Dicofol	See 2,2,2-Trichloro-1,1-bis(4-chlorophenyl)ethanol																						
389	*N*,*N*-Dicyclohexylamine	101-83-7	2009													0/60	0/20	—	(9)					389
			2017	3/19	3/19	0.025～0.037	(0.017)																	
	N,*N*-Dicyclohexyl-2-benzothiazolesulfenamide	See *N*,*N*-Dicyclohexyl-1,3-benzothiazole-2-sulphenamide																						
390	*N*,*N*-Dicyclohexyl-1,3-benzothiazole-2-sulphenamide	4979-32-2	1998	0/39	0/13	—	(0.3)	0/39	0/13	—	(0.01)													390
			2009	0/69	0/23	—	(0.0011)																	
			2010					0/87	0/29	—	(0.0007)	0/33	0/11	—	(0.0044)									
391	Dicyclopentadiene	77-73-6	1978	0/12	0/4	—	(0.016～0.2)	3/12	1/4	0.00087～0.00093	(0.000042～0.0003)													391
			1989	0/66	0/22	—	(0.1)	0/57	0/19	—	(0.005)													
			2008													0/48	0/20	—	(2.5)					
392	Didecyl(dimethyl)ammonium salt (as chloride)	7173-51-5etc.	2021	33/42	33/42	0.0010～0.017	(0.00097)																	392
393	Didodecyl 3,3'-thiodipropionate	123-28-4	1981	0/9	0/3	—	(0.16～1)	0/9	0/3	—	(0.008～0.05)													393
	Dieldrin	See 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimethanonaphthalene																						
394	Diethanolamine	111-42-2	1978	0/12	0/4	—	(0.3～3.4)																	394
			2015	F.W. 11/12 S.W. 6/11	F.W. 11 S.W. 6/11	F.W. 0.033～0.72 S.W. 0.27～1.1	(F.W. 0.014) (S.W. 0.22)																	
395	*alpha*-(Diethoxyphosphinothioylimino) phenylacetonitrile (synionym: Phoxim)	14816-18-3	1988	0/72	0/24	—	(0.6)	0/72	0/24	—	(0.074)	Fish 0/72	Fish 0/21	Fish —	(Fish 0.03)	0/72	0/12	—	(10)					395
396	Diethylamine	109-89-7	1981	0/27	0/9	—	(0.6～4)	0/27	0/9	—	(0.006～0.01)													396
			2022	6/28	6/28	0.071～19	(0.050)																	
397	2-(Diethylamino)ethanol	100-37-8	2022													0/66	0/22	—	(40)					397
398	*N*,*N*-Diethylaniline	91-66-7	1977	0/6	0/2	—	(1～5)	0/6	0/2	—	(0.25～1)													398
399	Diethylbiphenyls	28575-17-9	1976	0/68	0/15	—	(0.8～20)	0/50	0/15	—	(0.2～2.0)	Fish 0/20	Fish 0/9	Fish —	(Fish 0.16～0.50)									399
			(2007)	0/39	0/13	—	(0.00055*)	6/33	2/11	0.000076～0.0071	(0.00053*)	Fish &Birds 3/30	Fish &Birds 1/10	Fish &Birds 0.000059～0.000090	(Fish &Birds 0.00030*)									
399-1	Diethylbiphenyl（DDa***）		2007	0/39	0/13	—	(0.000070)	4/33	2/11	0.000052～0.00024	(0.000052)	Fish &Birds 3/30	Fish &Birds 1/10	Fish &Birds 0.000036～0.000064	(Fish &Birds 0.000026)									399-1
399-2	Diethylbiphenyl（DDb***）		2007	0/39	0/13	—	(0.00020)	4/30	2/10	0.00011～0.00091	(0.000089)	Fish &Birds 0/30	Fish &Birds 0/10	Fish &Birds —	(Fish &Birds 0.00011)									399-2
399-3	Diethylbiphenyl（DDc***）		2007	0/39	0/13	—	(0.00017)	3/33	1/11	0.00093～0.0023	(0.00023)	Fish &Birds 0/30	Fish &Birds 0/10	Fish &Birds —	(Fish &Birds 0.000062)									399-3
399-4	Diethylbiphenyl（DDd***）		2007	0/39	0/13	—	(0.000080)	3/33	1/11	0.00045～0.0026	(0.000066)	Fish &Birds 0/30	Fish &Birds 0/10	Fish &Birds —	(Fish &Birds 0.000055)									399-4
400	*O*,*O*-Diethyl *S*-[(6-chloro-2,3-dihydro-2-oxobenzoxazolinyl)methyl] dithiophosphate (synonym: Phosalone)	2310-17-0	1993	0/54	0/18	—	(0.1)	0/54	0/18	—	(0.05)	Fish 0/54	Fish 0/18	Fish —	(Fish 0.035)	0/24	0/8	—	(9)					400
	O,*O*-Diethyl *O*-(*alpha*-cyanobenzylideneamino) thiophosphate	See *alpha*-(Diethoxyphosphinothioylimino) phenylacetonitrile																						
401	Diethylene glycol	111-46-6	2008													15/15	5/5	6.1～45	(3.3)					401
	Diethylenetriamine	See *N*-(2-Aminoethyl)-1,2-ethanediamine																						
402	*O*,*O*-Diethyl *S*-[2-(ethylthio)ethyl] dithiophosphate (synonym: Ethylthiometon or Disulfoton)	298-04-4	1993													0/27	0/9	—	(2)					402
			2005	0/54	0/6	—	(0.030)					Fish 1/9	Fish 1/3	Fish 0.0012	(Fish 0.0010)									
	Di(2-ethylhexyl) adipate	See Bis(2-ethylhexyl) adipate																						
	Di-2-ethylhexyl phthalate	See Phthalates (Bis(2-ethylhexyl) phthalate)																						
403	*O*,*O*-Diethyl *O*-(2-isopropyl-6-methyl-4-pyrimidinyl) thiophosphat (synonym: Diazinon)	333-41-5	1983	0/30	0/10	—	(0.1)	0/30	0/10	—	(0.005～0.019)													403
			1993													0/51	0/17	—	(12)					
			2006	18/30	7/10	0.0010～0.019	(0.001)																	
404	*N*,*N*-Diethyl-3-methylbenzamide	134-62-3	2023	33/33	33/33	0.00064～0.059	(0.00045)																	404

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
405	Diethyl 4-nitrophenyl phosphate	311-45-5	1993	0/75	0/25	—	(0.2)	0/75	0/25	—	(0.03)	Fish 0/75	Fish 0/25	Fish —	(Fish 0.05)									405
406	*O*,*O*-Diethyl *O*-(6-oxo-1-phenyl-1,6-dihydro-3-pyridazinyl) thiophosphate (synonym: Pyridaphenthion)	119-12-0	2001	0/51	0/17	—	(0.11)	0/51	0/17	—	(0.011)	Fish 0/48	Fish 0/16	Fish —	(Fish 0.0069)									406
			2004	3/36	1/12	0.004～0.006	(0.003)	0/36	0/12	—	(0.00022)													
407	*O*,*O*-Diethyl *O*-(5-phenyl-3-isoxazolyl) thiophosphate (synonym: Isoxathion)	18854-01-8	1993													0/54	0/18	—	(100)					407
			2005	0/63	0/7	—	(0.022)																	
	Diethyl *p*-nitrophenyl phosphate	See Diethyl 4-nitrophenyl phosphate																						
408	*O*,*O*-Diethyl *O*-(2-quinoxalinyl) thiophosphate (synonym: Chinalphos)	13593-03-8	2006	0/33	0/11	—	(0.008)									0/15	0/5	—	(3)					408
409	Diethylstilbesterol	56-53-1	2010	0/45	0/15	—	(5)																	409
410	Diethyl terephthalate	636-09-9	2001													3/38	1/13	0.16～0.22	(0.042)					410
	N,*N*-Diethyl-*m*-toluamide	See *N*,*N*-Diethyl-3-methylbenzamide																						
411	*O*,*O*-Diethyl *O*-(3,5,6-trichloro-2-pyridyl) thiophosphate (synonym: Chlorpyrifos)	2921-88-2	1983	0/30	0/10	—	(0.1)	0/30	0/10	—	(0.005～0.035)													411
			1988	0/72	0/24	—	(0.1)	11/69	4/23	0.007～0.08	(0.007)	Fish 0/72	Fish 0/21	Fish —	(Fish 0.005)	0/72	0/12	—	(10)					
			1990	0/24	0/8	—	(0.1)	9/24	3/8	0.0074～0.033	(0.005)													
			2003									Fish 1/27	Fish 1/9	Fish 0.010	(Fish 0.003)	0/21	0/7	—	(2)					
412	2-(2,4-Difluorophenyl)-1,3-bis(1*H*-1,2,4-triazol-1-yl)propan-2-ol	86386-73-4	2023	23/30	23/30	0.00090～0.066	(0.00090)																	412
	Diheptyl phthalate	See Phthalates (Di-*n*-heptyl phthalate)																						
	1,2-Dihydroacenaphthylene	See Acenaphthene																						
413	2,3-Dihydro-2,2-dimethyl-7-benzo[b]furanyl *N*-methylcarbamate (synonym: Carbofuran)	1563-66-2	1992	0/72	0/24	—	(0.1)	0/72	0/24	—	(0.04)	Fish 0/69	Fish 0/23	Fish —	(Fish 0.02)									413
			2005	0/15	0/5	—	(0.007)																	
			2006																	Food 14/178		Food 0.0073～0.12ng/g-wet (Drinking water —ng/L)	(Food 0.0048～0.015) (Drinking water 0.12)	
414	*S*-(2,3-Dihydro-5-methoxy-2-oxo-1,3,4-thiadiazol-3-yl)methyl-*O*,*O*-dimethyl dithiophosphate (synonym: Methidathion or DMTP)	950-37-8	1993	0/54	0/18	—	(0.1)	0/54	0/18	—	(0.09)	Fish 0/54	Fish 0/18	Fish —	(Fish 0.11)	0/24	0/8	—	(5)					414
			2005	2/54	1/6	0.023～0.040	(0.015)					Fish 0/9	Fish 0/3	Fish —	(Fish 0.0012)									
415	1,2-Dihydro-5-nitroacenaphthylene	602-87-9	1984	0/21	0/7	—	(0.008～0.02)	0/21	0/7	—	(0.003～0.012)													415
416	2,3-Dihydro-6-propyl-2-thioxo-4(1*H*)- pyrimidinone (synonym: Propylthiouracil)	51-52-5	2009	0/84	0/28	—	(0.0046)																	416
417	5*alpha*-Dihydrotestosterone	521-18-6	2009	0/81	0/27	—	(0.000092)																	417
418	1,2-Dihydro-2,2,4-trimethylquinoline	147-47-7	1980	0/42	0/14	—	(0.5～5)	0/42	0/14	—	(0.025～0.7)													418
419	4,4'-Dihydroxydiphenylmethane (synonym: Bisphenol F)	620-92-8	2022	0/32	0/32	—	(0.0088)																	419
	Diisobutylene	See 2,4,4-Trimethyl-1-pentene																						
420	1,6-Diisocyanatohexane	822-06-0	2013													2/63	2/21	0.18～0.41	0.14					420
421	Diisodecyl adipate	27178-16-1	1978	0/30	0/10	—	(0.8～100)	0/30	0/10	—	(0.04～5)													421
	Diisopropylamine	See *N*-(1-Methylethyl)-2-propanamie																						
422	1,3-Diisopropylbenzene	99-62-7	1977	0/3	0/1	—	(4)	0/3	0/1	—	(0.01)													422
	m-Diisopropylbenzene	See 1,3-Diisopropylbenzene																						
423	*p*-Diisopropylbenzene	100-18-5	1977	0/3	0/1	—	(4)	0/3	0/1	—	(0.01)													423
424	Diisopropyl 1,3-dithiolan-2-ylidenemalonate (synonym: Isoprothiolane)	50512-35-1	1992	26/78	10/26	0.05～0.27	(0.045)	8/78	3/26	0.014～0.034	(0.01)	Fish 6/75	Fish 2/25	Fish 0.0094～0.15	(Fish 0.0064)	0/52	0/17	—	(15)					424
			2005	73/81	9/9	0.0065～1.8	(0.0062)					Fish 0/15	Fish 0/5	Fish —	(Fish 0.0010)									
425	Diisopropyl fluorophosphate	55-91-4	1993													0/48	0/16	—	(15)					425
	Diisopropylidene acetone	See 2,6-Dimethylhepta-2,5-dien-4-one																						
426	Diisopropylnaphthalene	38640-62-9	1975	0/100	0/20	—	(70～5,000)	9/100	3/20	0.061～0.19	(0.03～0.25)	Fish 2/94	Fish 2/20	Fish 0.028～0.048	(Fish 0.025～0.25)									426
			1977	0/117	0/39	—	(0.01～10)	6/117	2/39	0.0019～0.1	(0.00074～0.6)	Fish 7/93	Fish 3/29	Fish 0.00052～0.0017	(Fish 0.0002～0.5)									
			1980	0/120	0/40	—	(0.01～20)	3/120	1/40	0.049～0.064	(0.01～1.0)	Fish 3/108	Fish 1/28	Fish 0.006～0.025	(Fish 0.002～2.5)									
			2005					17/21	6/7	0.0037～7.5	(0.0020)	Bivalves 9/18 Fish 29/54	Bivalves 3/6 Fish 10/18	Bivalves 0.00023～0.0020 Fish 0.00019～0.027	(Bivalves 0.00019) (Fish 0.00019)									
			2006	0/12	0/4	—	(0.0004)																	
			2007	10/51	6/18	0.0015～0.0044	(0.0015)																	
			2009					62/83	23/28	0.00094～0.23	(0.00064)	Bivalves & Fish 31/42	Bivalves & Fish 13/14	Bivalves & Fish 0.00049～0.011	(Bivalves & Fish 0.00046)	57/60	20/20	0.67～22	(0.66)					
426-1	1,3-Diisopropylnaphthalene	57122-16-4	2009					65/89	25/30	0.00008～0.036	(0.00008)	Bivalves & Fish 35/42	Bivalves & Fish 13/14	Bivalves & Fish 0.00006～0.0038	(Bivalves & Fish 0.00005)	59/60	20/20	0.082～4.0	(0.082)					426-1
426-2	1,4-Diisopropylnaphthalene	24157-79-7	2009					50/89	21/30	0.00024～0.029	(0.00023)	Bivalves & Fish 33/42	Bivalves & Fish 13/14	Bivalves & Fish 0.00007～0.0032	(Bivalves & Fish 0.00005)	50/60	19/20	0.090～2.0	(0.082)					426-2
426-3	1,5-Diisopropylnaphthalene	27351-96-8	2009					41/88	16/30	0.00023～0.0095	(0.00023)	Bivalves & Fish 4/42	Bivalves & Fish 3/14	Bivalves & Fish 0.0006～0.0008	(Bivalves & Fish 0.0006)	32/60	12/20	0.11～1.2	(0.11)					426-3
426-4	1,6-Diisopropylnaphthalene	51113-41-8	2009					57/89	22/30	0.00022～0.037	(0.00020)	Bivalves & Fish 4/42	Bivalves & Fish 3/14	Bivalves & Fish 0.0006～0.0013	(Bivalves & Fish 0.0006)	56/60	19/20	0.096～3.1	(0.082)					426-4
426-5	1,7-Diisopropylnaphthalene	94133-80-9	2009					64/89	24/30	0.00008～0.039	(0.00008)	Bivalves & Fish 4/42	Bivalves & Fish 4/14	Bivalves & Fish 0.0006～0.0012	(Bivalves & Fish 0.0006)	60/60	20/20	0.086～3.8	(0.082)					426-5
426-6	2,3-Diisopropylnaphthalene	94133-81-0	2009					10/83	6/28	0.0034～0.0036	(0.00033)	Bivalves & Fish 0/42	Bivalves & Fish 0/14	Bivalves & Fish —	(Bivalves & Fish 0.0006)	14/60	6/20	0.10～0.45	(0.082)					426-6
426-7	2,6-Diisopropylnaphthalene	24157-81-1	2009					71/89	26/30	0.00008～0.045	(0.00008)	Bivalves & Fish 3/42	Bivalves & Fish 2/14	Bivalves & Fish 0.0006～0.00066	(Bivalves & Fish 0.0006)	60/60	20/20	0.089～4.0	(0.082)					426-7
426-8	2,7-Diisopropylnaphthalene	40458-98-8	2009					70/89	25/30	0.00011～0.043	(0.00008)	Bivalves & Fish 0/42	Bivalves & Fish 0/14	Bivalves & Fish —	(Bivalves & Fish 0.0006)	60/60	20/20	0.056～3.6	(0.026)					426-8
	Dilauryl phthalate	See Phthalates (1,2-Benzenedicarboxylic acid didodecyl ester)																						
	Dilauryl thiodipropionate	See Didodecyl 3,3'-thiodipropionate																						
	Dimethoate	See *O*,*O*-Dimethyl *S*-(N-methylcarbamoyl)methyl dithiophosphate																						
427	3,3'-Dimethoxybenzidine	119-90-4	1977	0/6	0/2	—	(0.05)	0/3	0/1	—	(0.003)													427
			2008	0/18	0/6	—	(0.0021)																	
	4,4'-Dimethoxydiphenylamine	See *N*-(4-methoxyphenyl)-*p*-anisidine																						
428	*N*,*N*-Dimethylacetamide	127-19-5	2014													19/27	7/9	2.5～400	(2.2)					428
			2015	11/20	11/20	0.014～73	(0.014)																	

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
429	*N*,*N*-Dimethylalkane-1-amine oxides																							429
429-1	*N*,*N*-Dimethyldecane-1-amine oxide	2605-79-0	2019	8/30	8/30	0.0031～0.37	(0.0030)																	429-1
			2022	7/48	7/48	0.0067～15	(0.0064)	0/84	0/28	—	(0.0015)													
429-2	*N*,*N*-Dimethyldodecane-1-amine oxide ********	1643-20-5	2004	—	—	—	(—)																	429-2
			2006					—	—	—	(—)													
			2015	—	—	—	(—)	66/69	23/23	0.000014～0.0035	(0.000014)													
			2019	19/30	19/30	0.0081～0.17	(0.0076)																	
			2022	34/48	34/48	0.026～1.8	(0.026)	52/84	23/28	0.0021～0.012	(0.0020)													
429-3	*N*,*N*-Dimethyltetradecane-1-amine oxide	3332-27-2	2019	10/30	10/30	0.0078～0.072	(0.0062)																	429-3
			2022	28/48	28/48	0.011～0.061	(0.011)	15/84	7/28	0.0014～0.0038	(0.0014)													
429-4	*N*,*N*-Dimethylhexadecane-1-amine oxide	7128-91-8	2022	26/48	26/48	0.00072～0.011	(0.00058)	1/84	1/28	0.0023	(0.0021)													429-4
429-5	*N*,*N*-Dimethyloctadecane-1-amine oxide	2571-88-2	2019	0/30	0/30	—	(0.0028)																	429-5
			2022	1/48	1/48	0.0049	(0.0043)	3/84	1/28	0.0029	(0.0028)													
430	Dimethylamine	124-40-3	1986	0/33	0/11	—	(4)	9/27	5/9	0.05～0.227	(0.05)													430
			1991													0/48	0/16	—	(640)					
			2012	5/23	5/23	0.53～21	(0.52)									4/60	2/20	29～41	(15)					
431	4-Dimethylaminoazobenzene	60-11-7	1986	0/30	0/10	—	(0.3)	0/30	0/10	—	(0.04)													431
432	3-[[(Dimethylamino)carbonyl]oxy]-1-methylpyridinium	155-97-5	2019	19/26	19/26	0.00015～0.018	(0.000043)																	432
433	(4-{[4-(Dimethylamino)phenyl](phenyl) methylidene}cyclohexa-2,5-dien-1-	569-64-2	1985	0/33	0/11	—	(2)	0/27	0/9	—	(0.2)													433
			2019	5/23	5/23	0.000034～0.00096	(0.000028)																	
434	*N*-[3-(Dimethylamino)propyl]stearamide	7651-02-7	2019	30/32	30/32	0.0018～0.32	(0.0016)	33/74	15/28	0.0068～0.22	(0.0061)													434
435	2,3-Dimethylaniline	87-59-2	1976	0/68	0/20	—	(0.1～1)	6/68	2/20	0.006～0.090	(0.001～0.006)													435
			1990	0/54	0/18	—	(0.02)	0/54	0/18	—	(0.011)	Fish 0/27	Fish 0/9	Fish —	(Fish 0.005)	0/51	0/17	—	(500)					
			2015	0/15	0/15	—	(0.012)																	
	2,4-Dimethylaniline	See 2,4-Xylidine																						
	2,5-Dimethylaniline	See 2,5-Xylidine																						
436	2,6-Dimethylaniline	87-62-7	2005	0/12	0/4	—	(0.021)																	436
437	3,4-Dimethylaniline	95-64-7	1976	0/68	0/20	—	(0.06～0.7)	8/68	4/20	0.001 ～0.043	(0.001～0.004)													437
			1977	0/6	0/2	—	(1～20)	0/6	0/2	—	(0.25～4)													
			2005	0/12	0/4	—	(0.0072)	0/9	0/3	—	(0.0007)													
438	3,5-Dimethylaniline	108-69-0	1976	1/68	1/20	0.04	(0.02～0.2)	5/68	3/20	0.002 ～0.01	(0.0005～0.0016)													438
439	*N*,*N*-Dimethylaniline	121-69-7	1976	2/68	1/20	1.1～1.7	(0.3～2.4)	6/68	3/20	0.011～0.21	(0.006～0.05)													439
			1990	0/69	0/23	—	(0.03)	3/63	1/21	0.014～0.027	(0.01)	Fish 0/69	Fish 0/23	Fish —	(Fish 0.002)	1/36	1/12	380	(100)					
440	3,3'-Dimethylbenzidine	119-93-7	1977	0/6	0/2	—	(0.02)	0/3	0/1	—	(0.002)													440
			2005	0/18	0/6	—	(0.037)																	
			2012	0/14	0/14	—	(0.0016)																	
			2016													0/24	0/8	—	(0.076)					
	Di(*alpha*-methylbenzyl)phenol	See 2,4-Bis(1-phenylethyl)phenol																						
441	*N*,*N*-Dimethylbiguanide hydrochloride (as *N*,*N*-Dimethylbiguanide)	1115-70-4	2019	26/27	26/27	0.0098～3.6	(0.00017)																	441
442	*O*,*O*-Dimethyl *S*-1,2 bis (ethoxycarbonyl) ethyl dithiophosphate (synonym: Malathion)	121-75-5	1993	0/51	0/17	—	(0.06)	0/51	0/17	—	(0.06)	Fish 0/51	Fish 0/17	Fish —	(Fish 0.069)	0/54	0/18	—	(25)					442
443	*N*-(1,3-Dimethylbutyl)-*N*′-phenyl-*p*-phenylenediamine	793-24-8	2005	0/12	0/4	—	(0.00045)									15/39	8/13	0.02～0.35	(0.02)					443
444	*N*′,*N*′-Dimethylcarbamoyl (methylthio)methylenamine *N*-methylcarbamate (synonym: Oxamyl)	23135-22-0	1992	0/33	0/11	—	(0.1)	0/33	0/11	—	(0.01)	Fish 0/33	Fish 0/11	Fish —	(Fish 0.005)									444
	O,*O*-Dimethyl-*O*-2-chloro-1-(2,4,5-trichlorophenyl)ethenyl phosphate	See 2-Chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate																						
	2,2'-Dimethyl- 2,2'-diazenediylbis(propanenitrile)	See 2,2'-Azobisisobutyronitrile																						
445	Dimethyl 2,2-dichlorovinyl phosphate (synonym: Dichlorvos or DDVP)	62-73-7	1983	0/30	0/10	—	(0.1)	0/30	0/10	—	(0.005～0.031)													445
			1993													4/51	2/17	10～13	(10)					
			2006	18/24	6/8	0.0007～0.020	(0.0003)																	
			2020	2/27	2/27	0.0015～0.033	(0.00043)									13/63	6/21	0.64～2.3	(0.63)					
446	Dimethyl disulfide	624-92-0	2017	12/17	12/17	0.0034～0.016	(0.0034)																	446
447	*N*,*N*-Dimethyldithiocarbamamic acid and its salts	79-45-8																						447
	(*N*,*N*′-Ethylenebis (thiocarbamoylthiozionc) bis(*N*,*N*'-dimethyldithiocarbamate) , Zinc bis(*N*,*N*'-dimethyldithiocarbamate)	(64440-88-6, 137-30-4 etc.)	2006	0/51	0/7	—	(0.05)					Bivalves & Fish 0/30	Bivalves & Fish 0/10	Bivalves & Fish —	(Bivalves & Fish 0.0003)									
			2019	15/22	15/22	0.022～0.82	(0.0066)																	
			2020					0/79	0/28	—	(0.0013)													
448	*N*,*N*-Dimethyldodecylamine	112-18-5	2013	3/13	3/13	0.0063～1.2	(0.0062)																	448
449	2-(1,1-Dimethylethyl)-1,4-benzenediol	1948-33-0	1980	0/42	0/14	—	(0.2～20)	0/42	0/14	—	(0.008～1.0)													449
450	2-(1,1-Dimethylethyl)-4,6-dimethylphenol	1879-09-0	1997	0/165	0/55	—	(0.5)																	450
451	*N*,*N*-Dimethylformamide	68-12-2	1978	0/24	0/8	—	(10～50)	0/24	0/8	—	(0.1～0.3)													451
			1991	18/48	7/16	0.1～6.6	(0.1)	9/48	3/16	0.03～0.11	(0.013)					21/49	11/17	110～1,100	(110)					
			1997													30/49	12/17	20～620	(20)					
			1998	5/36	2/12	0.080～0.11	(0.07)	10/36	4/12	0.0033～0.03	(0.003)													
			2005	10/27	4/9	0.037～1.5	(0.026)									44/46	16/16	10～620	(10)					
			2006					6/24	4/8	0.0014～0.018	(0.0014)													
			2011	37/47	37/47	0.019～0.53	(0.019)	17/186	7/62	0.0026～0.015	(0.0026)					105/105	35/35	16～490	(3.9)					
			2018	13/25	13/25	0.059～0.41	(0.059)																	
452	2,6-Dimethyl-2,5-heptadien-4-one	504-20-1	1981	0/36	0/12	—	(0.02～10)	0/36	0/12	—	(0.0006～0.2)													452
453	*O*,*O*-Dimethyl *S*-[2-[1-(*N*-methylcarbamoyl)ethylthio]ethyl] thiophosphate (synonym: Vamidothion)	2275-23-2	2008	0/9	0/3	—	(0.000062)									0/15	0/5	—	(0.28)					453

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
454	*O*,*O*-Dimethyl *S*-(*N*-methylcarbamoyl)methyl dithiophosphate (synonym: Dimethoate)	60-51-5	1986	0/39	0/13	—	(0.3)	0/39	0/13	—	(0.03)													454
			1993	0/30	0/10	—	(0.1)	0/30	0/10	—	(0.71)	Fish 0/30	Fish 0/10	Fish —	(Fish 4.0)									
455	O,O-Dimethyl O-(3-methyl-4-methylthiophenyl) thiophosphate (synonym: MPPlankton or Fenthion)	55-38-9	1993	0/51	0/17	—	(0.2)	0/51	0/17	—	(0.033)	Fish 0/51	Fish 0/17	Fish —	(Fish 0.05)	0/54	0/18	—	(15)					455
			2005	15/54	2/6	0.010～0.076	(0.010)																	
			2007	1/84	1/12	0.0017	(0.0012)					Birds 0/6	Birds 0/2	Birds —	(Birds 0.000095)									
456	O,O-Dimethyl O-(3-methyl-4-nitrophenyl) thiophosphate (synonym: MPPlankton or Fenitrothion)	122-14-5	1983	0/30	0/10	—	(0.0064～0.4)	0/30	0/10	—	(0.0012～0.02)													456
			1993													2/45	1/15	20～45	(10)					
			2006	16/18	6/6	0.000015～0.0048	(0.000011)																	
457	Dimethylnaphthalenes (Total of 1,4-isomer 1,5-isomer and 2,3-isomer)	571-58-4 571-61-9 581-40-8	1984	3/18	1/6	0.02～0.03	(0.005～0.3)	6/18	3/6	0.004～0.033	(0.0003～0.016)													457
			1985	0/147	0/49	—	(0.2)	13/147	6/49	0.03～0.29	(0.03)	Fish 19/129	Fish 12/40	Fish 0.002～0.019	(Fish 0.002)									
	(Total of 1,3-isomer and 1,6-isomer)	575-41-7 575-43-9	1998													26/27	9/9	2.0～70	(0.56)					
457-1	1,2-Dimethylnaphthalene	573-98-8	1984	3/18	1/6	0.01	(0.005～0.3)	1/18	1/6	0.001	(0.0003～0.016)													457-1
			1985	0/141	0/47	—	(0.2)	5/138	2/46	0.038～0.16	(0.03)	Fish 4/129	Fish 2/40	Fish 0.002 ～0.007	(Fish 0.002)									
			1998													28/30	10/10	0.37～9.9	(0.3)					
457-2	1,3-Dimethylnaphthalene	575-41-7	1984	3/18	1/6	0.07～0.08	(0.01～0.2)	10/18	4/6	0.011～0.073	(0.0008～0.012)													457-2
			1985	0/141	0/47	—	(0.2)	24/142	10/48	0.03～0.61	(0.03)	Fish 39/129	Fish 17/40	Fish 0.0020～0.059	(Fish 0.002)									
457-3	1,4-Dimethylnaphthalene	571-58-4	1998													29/30	10/10	0.27～7.2	(0.23)					457-3
457-4	1,5-Dimethylnaphthalene	571-61-9	1998													28/30	10/10	0.4～8.9	(0.33)					457-4
457-5	1,7-Dimethylnaphthalene	575-37-1	1998													27/27	9/9	0.13～23	(0.1)					457-5
457-6	1,8-Dimethylnaphthalene	569-41-5	1985	0/147	0/49	—	(0.2)	1/135	1/45	0.072	(0.03)	Fish 0/126	Fish 0/39	Fish —	(Fish 0.002)									457-6
			1998													21/21	7/7	0.09～5.1	(0.08)					
457-7	2,3-Dimethylnaphthalene	581-40-8	1998													28/30	10/10	0.4～13	(0.4)					457-7
457-8	2,6-Dimethylnaphthalene	581-42-0	1984	3/18	1/6	0.02	(0.006～0.2)	10/18	4/6	0.006～0.067	(0.0005～0.010)													457-8
			1985	0/141	0/47	—	(0.2)	18/141	7/47	0.032～0.31	(0.03)	Fish 18/129	Fish 9/40	Fish 0.0020～0.016	(Fish 0.002)									
			1998													26/27	9/9	1.2～30	(0.61)					
457-9	2,7-Dimethylnaphthalene	582-16-1	1998													27/27	9/9	0.31～22	(0.3)					457-9
458	*N*,*N*-Dimethyl-4-nitrosoaniline	138-89-6	1980	0/27	0/9	—	(0.2)																	458
	N,*N*-Dimethyl-*p*-nitrosoaniline	See *N*,*N*-dimethyl-4-nitrosoaniline																						
459	*N*,*N*-Dimethyl-*n*-octadecylamine	124-28-7	2013	5/12	5/12	0.0019～0.015	(0.0008)																	459
460	*O*,*O*-Dimethyl 4-oxobenzotriazin-3-ylmethyl dithiophosphate (synonym: Azinphosmethyl)	86-50-0	1993													0/24	0/8	—	(21)					460
	2,4-Dimethylphenol	See 2,4-Xylenol																						
461	2,5-Dimethylphenol	95-87-4	1982	0/33	0/11	—	(0.04～0.5)	0/33	0/11	—	(0.0002～0.02)													461
	3,5-Dimethylphenol	See 3,5-Xylenol																						
462	*N*-(2,3-Dimethylphenyl)anthranilic acid (synonym: Mefenamic acid)	61-68-7	2021	17/32	17/32	0.00022～0.0085	(0.00016)																	462
463	Dimethyl 4,4'-(*o*-phenylene)bis(3-thioallophanate) (synonym: Thiophanate-methyl)	23564-05-8	2007	1/27	1/9	0.00090	(0.00079)																	463
464	1,2-Dimethyl-4-(1-phenylethyl) benzene	6196-95-8	1975	0/100	0/20	—	(0.13～5)	13/100	4/20	0.028～0.31	(0.028～0.25)	Fish 0/94	Fish 0/20	Fish —	(Fish 0.020～0.25)									464
			1977	0/117	0/39	—	(0.01～5)	12/117	4/39	0.002～0.029	(0.0013～0.3)	Fish 14/93	Fish 7/29	Fish 0.00052～3	(Fish 0.0002～0.3)									
			1980	0/120	0/40	—	(0.005～20)	3/120	1/40	0.019～0.027	(0.002～1.0)	Fish 0/108	Fish 0/28	Fish —	(Fish 0.001～2.5)									
465	1,4-Dimethyl-2-(1-phenylethyl)benzene	6165-51-1	2008	3/19	3/7	0.0021～0.017	(0.0021)	35/35	13/13	0.00004～0.065	(0.00002)													465
466	3,5-Dimethylphenyl *N*-methylcarbamate (synonym: XMC)	2655-14-3	1988	0/75	0/25	—	(0.22)	0/69	0/23	—	(0.0103)					0/72	0/12	—	(7.0)					466
467	*O*,*O*-Dimethyl *S*-phthalimidylmethyl dithiophosphate (synonym: Phosmet)	732-11-6	1993													0/24	0/8	—	(7)					467
468	2,2-Dimethyl-1,3-propanediol	126-30-7	1977	0/6	0/2	—	(200～400)	0/6	0/2	—	(2)													468
469	*N*,*N*-Dimethylpropane-1,3-diyldiamine	109-55-7	2016	0/20	0/20	—	(0.030)																	469
470	Dimethyl sulfoxide	67-68-5	1992	17/45	6/15	0.2～4.2	(0.2)	17/42	6/14	0.005～0.098	(0.005)	Fish 8/39	Fish 4/13	Fish 0.0056～0.028	(Fish 0.005)									470
			2010													18/42	8/14	22～46	(22)					
471	Dimethyl terephthalate	120-61-6	1975	1/100	1/20	160	(2～500)																	471
			1982	0/18	0/6	—	(0.2～0.5)	0/18	0/6	—	(0.008～0.015)													
			2001													3/38	1/13	0.074～0.093	(0.030)					
			2007													23/26	8/9	0.030～1.0	(0.012)					
472	Dimethy 2,2,2-trichloro-1-hydroxyethylphosphonate (synonym: Trichlorfon or DEP)	52-68-6	1993	0/33	0/11	—	(0.2)	0/33	0/11	—	(0.008)	Fish 0/33	Fish 0/11	Fish —	(Fish 0.004)									472
473	2,4-Dinitroaniline	97-02-9	1990	0/75	0/25	—	(1.7)	1/75	1/25	0.56	(0.19)	Fish 0/72	Fish 0/24	Fish —	(Fish 0.078)									473
			2017	0/21	0/21	—	(0.15)																	
	1,2-Dinitrobenzene	See *o*-Dinitrobenzene																						
	1,3-Dinitrobenzene	See *m*-Dinitrobenzene																						
	1,4-Dinitrobenzene	See *p*-Dinitrobenzene																						
474	*o*-Dinitrobenzene	528-29-0	1976	0/70	0/48	—	(0.05)	1/54	1/40	0.0008	(0.0002～0.01)	Fish 0/10	Fish 0/2	Fish —	(Fish 0.004)									474
			1991	0/45	0/15	—	(0.1)	0/48	0/16	—	(0.013)													
475	*m*-Dinitrobenzene	99-65-0	1976	0/70	0/48	—	(0.1～0.25)	1/51	1/37	0.03	(0.007～0.02)	Fish 0/10	Fish 0/2	Fish —	(Fish 0.01)									475
			1991	0/45	0/15	—	(0.1)	0/48	0/16	—	(0.012)	Fish 0/48	Fish 0/16	Fish —	(Fish 0.005)									
			2007	0/24	0/8	—	(0.0019)																	
			2008					0/45	0/15	—	(0.00011)													
476	*p*-Dinitrobenzene	100-25-4	1994	0/27	0/9	—	(0.054)	0/27	0/9	—	(0.014)	Fish 0/27	Fish 0/9	Fish —	(Fish 0.003)									476
			2003	0/72	0/24	—	(0.054)	0/63	0/21	—	(0.0031)													
477	2,6-Dinitro-*p*-cresol	609-93-8	1994	0/36	0/12	—	(0.2)	0/36	0/12	—	(0.015)	Fish 0/36	Fish 0/12	Fish —	(Fish 0.005)									477
478	4,6-Dinitro-*o*-cresol	534-52-1	1984	0/21	0/7	—	(0.016～0.08)	0/21	0/7	—	(0.0016～0.017)													478
			2008	21/21	7/7	0.0037～0.069	(0.00019)																	
			2012													25/27	9/9	0.12～2.3	(0.11)					
	4,6-Dinitro-2-methylphenol	See 4,6-Dinitro-*o*-cresol																						
479	1,5-Dinitronaphthalene	605-71-0	1985	0/30	0/10	—	(0.05)	0/30	0/10	—	(0.004)													479
480	1,8-Dinitronaphthalene	602-38-0	1985	0/30	0/10	—	(0.05)	0/30	0/10	—	(0.004)													480

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
481	2,4-Dinitrophenol	51-28-5	1984	0/21	0/7	—	(0.04～0.2)	0/21	0/7	—	(0.004～0.041)													481
			1994	0/36	0/12	—	(0.4)	0/36	0/12	—	(0.0076)	Fish 0/36	Fish 0/12	Fish —	(Fish 0.01)									
			2003	11/114	5/38	0.019～0.54	(0.019)																	
			2009	82/82	28/28	0.0010～0.23	(0.0010)					Bivalves & Fish 4/39	Bivalves & Fish 2/13	Bivalves & Fish 0.00011～0.00015	(Bivalves & Fish 0.00011)									
482	1,3-Dinitropyrene	75321-20-9	1990	0/69	0/23	—	(0.04)	0/72	0/24	—	(0.13)	Fish 0/69	Fish 0/23	Fish —	(Fish 0.075)									482
483	1,6-Dinitropyrene	42397-64-8	1990	0/69	0/23	—	(0.04)	0/72	0/24	—	(0.15)	Fish 0/69	Fish 0/23	Fish —	(Fish 0.075)									483
484	1,8-Dinitropyrene	42397-65-9	1990	0/69	0/23	—	(0.045)	0/72	0/24	—	(0.15)	Fish 0/69	Fish 0/23	Fish —	(Fish 0.08)	0/48	0/16	—	(0.01)					484
485	2,4-Dinitrotoluene	121-14-2	1976	0/70	0/48	—	(0.08～0.1)	0/50	0/36	—	(0.00035～0.01)	Fish 0/10	Fish 0/2	Fish —	(Fish 0.006)									485
			1991	0/48	0/16	—	(0.14)	0/48	0/16	—	(0.0099)	Fish 0/45	Fish 0/15	Fish —	(Fish 0.005)									
			2002													3/21	2/7	1.0～1.5	(0.95)					
486	2,6-Dinitrotoluene	606-20-2	1976	1/70	1/48	0.054	(0.025～0.03)	3/55	3/41	0.003～0.0050	(0.0007～0.01)	Fish 0/10	Fish 0/2	Fish —	(Fish 0.002)									486
			1991	0/48	0/16	—	(0.11)	0/48	0/16	—	(0.011)	Fish 0/45	Fish 0/15	Fish —	(Fish 0.005)									
			2002													3/18	1/6	5.3～14	(0.89)					
			2007	0/21	0/7	—	(0.0014)																	
			2008					0/45	0/15	—	(0.00010)													
487	3,4-Dinitrotoluene	610-39-9	1976	0/70	0/48	—	(0.05～0.075)	0/59	0/45	—	(0.002～0.01)	Fish 0/10	Fish 0/2	Fish —	(Fish 0.004)									487
	DINP	See See Phthalate esters (Diisononyl Phthalate)																						
488	Dioctadecyl 3,3'-thiobispropionate	693-36-7	1981	0/9	0/3	—	(0.16～1)	0/9	0/3	—	(0.008～0.05)													488
	Dioctyl phthalate	See Phthalates (Di-*n*-octyl phthalate)																						
	Dioctyl sebacate	See Bis(2-ethylhexyl) sebacate																						
	Dioctyltin compounds	See Organotins (Dioctyltin compounds)																						
489	1,4-Dioxane	123-91-1	1976	0/60	0/15	—	(100)	0/20	0/4	—	(0.4)													489
			1989	43/78	15/26	0.12～15	(0.02～1)	27/78	9/26	0.0004～0.034	(0.001～0.02)													
			1990	62/96	21/32	0.11～35	(0.1)	29/94	13/32	0.005～0.0312	(0.005)													
			1991	66/96	22/32	0.1～8.8	(0.1)	12/96	5/32	0.004～0.024	(0.004)													
			1992	61/99	21/33	0.1～19	(0.1)	6/102	2/34	0.018～0.047	(0.01)													
			1993	67/102	25/34	0.1～13	(0.1)	15/93	7/31	0.004～0.018	(0.004)													
			1994	60/96	22/32	0.08～15	(0.08)	13/90	7/30	0.005～0.0076	(0.005)													
			1995	64/105	22/35	0.11～7.6	(0.1)	9/102	4/34	0.007～0.074	(0.0065)													
			1996	68/105	24/35	0.09～9.02	(0.08)	5/108	2/36	0.015～0.030	(0.01)													
			1997	70/102	24/34	0.09～42.8	(0.08)	3/105	1/35	0.011～0.041	(0.01)													
			1998	63/103	24/35	0.08～5.3	(0.08)	5/108	2/36	0.016～0.051	(0.01)													
			1999	71/105	25/35	0.08～46	(0.08)	1/99	1/33	0.0094	(0.008)													
			2000	60/98	22/33	0.08～160	(0.08)	1/93	1/31	0.010	(0.008)					22/34	9/12	15～1,200	(6.8)					
			2001	45/99	16/33	0.09～8.0	(0.08)	3/99	1/33	0.014～0.030	(0.010)													
490	Dioxins																							490
490-1	Polychlorinateddibenzo-*p*-dioxins																							490-1
490-1-4	Tetrachlorodibenzo-*p*-dioxins																							490-1-4
	(Other than 1,3,6,8-isomer 1,3,7,9-isomer and 2,3,7,8-isomer)		1985					2/51	2/51	0.00001～0.00002	(0.00001)	Fish 9/51	Fish 9/51	Fish 0.00001～0.00003	(Fish 0.00001)									
			1986	0/18	0/18	—	(0.00001)	19/39	19/39	0.000001～0.00027	(0.000001)	Fish 0/32	Fish 0/32	Fish —	(Fish 0.000001)									
			1988					17/30	17/30	0.000002～0.000012	(0.000001)	Bivalves 2/2 Fish 3/30	Bivalves 2/2 Fish 3/30	Bivalves 0.000002～0.000005 Fish 0.000002～0.000008	(Bivalves 0.000001) (Fish 0.000001)									
			1989					28/33	28/33	0.000001～0.00027	(0.000001)	Bivalves 2/3 Fish 3/32	Bivalves 2/3 Fish 3/32	Bivalves 0.000009～0.000026 Fish 0.000001～0.000004	(Bivalves 0.000001) (Fish 0.000001)									
			1990					30/33	30/33	0.000001～0.00038	(0.000001)	Bivalves 2/3 Fish 2/32	Bivalves 2/3 Fish 2/32	Bivalves 0.000009～0.000019 Fish 0.000002～0.000008	(Bivalves 0.000001) (Fish 0.000001)									
			1991					33/35	33/35	0.000001～0.00023	(0.000001)	Bivalves 3/3 Fish 4/34	Bivalves 3/3 Fish 4/34	Bivalves 0.000002～0.000010 Fish 0.000003～0.000031	(Bivalves 0.000001) (Fish 0.000001)									
			1992					30/36	30/36	0.000002～0.00010	(0.000001)	Bivalves 2/3 Fish 4/34	Bivalves 2/3 Fish 4/34	Bivalves 0.000007～0.000023 Fish 0.000002～0.000008	(Bivalves 0.000001) (Fish 0.000001)									
			1993					32/36	32/36	0.000001～0.000050	(0.000001)	Bivalves 3/3 Fish 2/34	Bivalves 3/3 Fish 2/34	Bivalves 0.000001～0.000014 Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1994					29/36	29/36	0.000001～0.000064	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves — Fish —	(Bivalves 0.000001) (Fish 0.000001)									
			1995					34/36	34/36	0.000001～0.000070	(0.000001)	Bivalves 1/1 Fish 0/34	Bivalves 1/1 Fish 0/34	Bivalves 0.000004 Fish —	(Bivalves 0.000001) (Fish 0.000001)									
			1996					34/36	34/36	0.0000004～0.000066	(0.0000001)	Fish 2/35	Fish 2/35	Fish 0.0000002～0.0000005	(Fish 0.0000001)									
			1997					38/40	38/40	0.0000004～0.000063	(0.0000001)	Fish 2/39	Fish 2/39	Fish 0.0000001～0.0000009	(Fish 0.0000001)									
490-1-4-1	1,3,6,8-Tetrachlorodibenzo-*p*-dioxin		1985					36/51	36/51	0.00001～0.0012	(0.00001)	Fish 10/51	Fish 10/51	Fish 0.00001～0.00007	(Fish 0.00001)									490-1-4-1
			1986	9/18	9/18	0.00001～0.00004	(0.00001)	39/39	39/39	0.000002～0.0037	(0.000001)	Fish 21/32	Fish 21/32	Fish 0.000002～0.000031	(Fish 0.000001)									
			1988					29/30	29/30	0.000005～0.00062	(0.000001)	Bivalves 2/2 Fish 15/30	Bivalves 2/2 Fish 15/30	Bivalves 0.000004～0.000008 Fish 0.000001～0.000026	(Bivalves 0.000001) (Fish 0.000001)									
			1989					31/33	31/33	0.000021～0.0017	(0.000001)	Bivalves 3/3 Fish 17/32	Bivalves 3/3 Fish 17/32	Bivalves 0.000009～0.000028 Fish 0.000001～0.000110	(Bivalves 0.000001) (Fish 0.000001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1990					32/33	32/33	0.000003～0.0042	(0.000001)	Bivalves 3/3 Fish 22/32	Bivalves 3/3 Fish 22/32	Bivalves 0.000011～0.000081 Fish 0.000001～0.00015	(Bivalves 0.000001) (Fish 0.000001)									
			1991					33/35	33/35	0.000001～0.0050	(0.000001)	Bivalves 3/3 Fish 18/34	Bivalves 3/3 Fish 18/34	Bivalves 0.000010～0.000050 Fish 0.000001～0.000027	(Bivalves 0.000001) (Fish 0.000001)									
			1992					33/36	33/36	0.000006～0.0027	(0.000001)	Bivalves 3/3 Fish 17/34	Bivalves 3/3 Fish 17/34	Bivalves 0.000018～0.000096 Fish 0.000001～0.000069	(Bivalves 0.000001) (Fish 0.000001)									
			1993					33/36	33/36	0.000009～0.0018	(0.000001)	Bivalves 3/3 Fish 14/34	Bivalves 3/3 Fish 14/34	Bivalves 0.000009～0.000027 Fish 0.000002～0.000060	(Bivalves 0.000001) (Fish 0.000001)									
			1994					34/36	34/36	0.000001～0.0020	(0.000001)	Bivalves 1/1 Fish 21/34	Bivalves 1/1 Fish 21/34	Bivalves 0.000006 Fish 0.000001～0.000022	(Bivalves 0.000001) (Fish 0.000001)									
			1995					35/36	35/36	0.000001～0.0022	(0.000001)	Bivalves 1/1 Fish 19/34	Bivalves 1/1 Fish 19/34	Bivalves 0.000029 Fish 0.000001～0.000062	(Bivalves 0.000001) (Fish 0.000001)									
			1996					36/36	36/36	0.0000004～0.0030	(0.0000001)	Fish 32/35	Fish 32/35	Fish 0.0000001～0.000065	(Fish 0.000000)									
			1997					40/40	40/40	0.0000002～0.0021	(0.0000001)	Fish 32/39	Fish 32/39	Fish 0.0000001～0.000046	(Fish 0.0000001)									
490-1-4-2	1,3,7,9-Tetrachlorodibenzo-*p*-dioxin		1985					26/51	26/51	0.00001～0.00032	(0.00001)	Fish 0/51	Fish 0/51	Fish －	(Fish 0.00001)									490-1-4-2
			1986	0/18	0/18	－	(0.00001)	36/39	36/39	0.000002～0.0012	(0.000001)	Fish 1/32	Fish 1/32	Fish 0.000003	(Fish 0.000001)									
			1988					29/30	29/30	0.000002～0.00018	(0.000001)	Bivalves 1/2 Fish 0/30	Bivalves 1/2 Fish 0/30	Bivalves 0.000002 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1989					31/33	31/33	0.000007～0.00054	(0.000001)	Bivalves 3/3 Fish 1/32	Bivalves 3/3 Fish 1/32	Bivalves 0.000001～0.000010 Fish 0.000018	(Bivalves 0.000001) (Fish 0.000001)									
			1990					31/33	31/33	0.000007～0.0013	(0.000001)	Bivalves 3/3 Fish 0/32	Bivalves 3/3 Fish 0/32	Bivalves 0.000002～0.000011 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1991					32/35	32/35	0.000002～0.0015	(0.000001)	Bivalves 3/3 Fish 1/34	Bivalves 3/3 Fish 1/34	Bivalves 0.000003～0.000008 Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1992					33/36	33/36	0.000002～0.00078	(0.000001)	Bivalves 3/3 Fish 0/34	Bivalves 3/3 Fish 0/34	Bivalves 0.000003～0.000025 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1993					33/36	33/36	0.000004～0.00055	(0.000001)	Bivalves 3/3 Fish 0/34	Bivalves 3/3 Fish 0/34	Bivalves 0.000002～0.000007 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1994					33/36	33/36	0.000004～0.00068	(0.000001)	Bivalves 1/1 Fish 0/34	Bivalves 1/1 Fish 0/34	Bivalves 0.000001 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1995					34/36	34/36	0.000004～0.00064	(0.000001)	Bivalves 1/1 Fish 0/34	Bivalves 1/1 Fish 0/34	Bivalves 0.000006 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1996					36/36	36/36	0.0000001～0.00072	(0.0000001)	Fish 9/35	Fish 9/35	Fish 0.0000001～0.0000019	(Fish 0.0000001)									
			1997					39/40	39/40	0.0000004～0.00056	(0.0000001)	Fish 7/39	Fish 7/39	Fish 0.0000001～0.0000031	(Fish 0.0000001)									
490-1-4-3	2,3,7,8-Tetrachlorodibenzo-*p*-dioxin	1746-01-6	1985					0/51	0/51	－	(0.00001)	Fish 0/51	Fish 0/51	Fish －	(Fish 0.00001)									490-1-4-3
			1986	0/18	0/18	－	(0.00001)	0/39	0/39	－	(0.000001)	Fish 2/32	Fish 2/32	Fish 0.000001	(Fish 0.000001)									
			1987					2/37	2/37	0.000001	(0.000001)	Fish 0/37	Fish 0/37	Fish －	(Fish 0.000001)									
			1988					0/30	0/30	－	(0.000001)	Bivalves 0/2 Fish 0/30	Bivalves 0/2 Fish 0/30	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1989					3/33	3/33	0.000002～0.000004	(0.000001)	Bivalves 0/3 Fish 2/32	Bivalves 0/3 Fish 2/32	Bivalves － Fish 0.000001～0.000003	(Bivalves 0.000001) (Fish 0.000001)									
			1990					7/33	7/33	0.000001～0.000008	(0.000001)	Bivalves 0/3 Fish 5/32	Bivalves 0/3 Fish 5/32	Bivalves － Fish 0.000001～0.000005	(Bivalves 0.000001) (Fish 0.000001)									
			1991					6/35	6/35	0.000001～0.000006	(0.000001)	Bivalves 0/3 Fish 3/34	Bivalves 0/3 Fish 3/34	Bivalves － Fish 0.000003～0.000005	(Bivalves 0.000001) (Fish 0.000001)									
			1992					4/36	4/36	0.000002～0.000003	(0.000001)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1993					2/36	2/36	0.000001～0.000003	(0.000001)	Bivalves 0/3 Fish 1/34	Bivalves 0/3 Fish 1/34	Bivalves － Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1994					3/36	3/36	0.000001～0.000002	(0.000001)	Bivalves 0/1 Fish 1/34	Bivalves 0/1 Fish 1/34	Bivalves － Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1995					2/36	2/36	0.000002～0.000010	(0.000001)	Bivalves 0/1 Fish 2/34	Bivalves 0/1 Fish 2/34	Bivalves － Fish 0.000001～0.000002	(Bivalves 0.000001) (Fish 0.000001)									
			1996					16/36	16/36	0.0000001～0.0000041	(0.0000001)	Fish 25/35	Fish 25/35	Fish 0.0000001～0.0000005	(Fish 0.0000001)									
			1997					22/40	22/40	0.0000001～0.0000037	(0.0000001)	Fish 23/39	Fish 23/39	Fish 0.0000001～0.0000018	(Fish 0.0000001)									
490-1-5	Pentachlorodibenzo-*p*-dioxins																							490-1-5
	(Other than 1,2,3,4,7-isomer and 1,2,3,7,8-isomer)		1985					8/51	8/51	0.00006～0.00077	(0.00005)	Fish 0/51	Fish 0/51	Fish －	(Fish 0.00005)									
			1986	0/18	0/18	－	(0.00001)	38/39	38/39	0.000001～0.0016	(0.000001)	Fish 1/32	Fish 1/32	Fish 0.000002	(Fish 0.000001)									
	(Other than 1,2,3,7,8-isomer)		1988					29/30	29/30	0.000004～0.00023	(0.000001)	Bivalves 2/2 Fish 3/30	Bivalves 2/2 Fish 3/30	Bivalves 0.000001～0.000026 Fish 0.000015～0.000018	(Bivalves 0.000001) (Fish 0.000001)									
			1989					31/33	31/33	0.000006～0.0011	(0.000001)	Bivalves 3/3 Fish 2/32	Bivalves 3/3 Fish 2/32	Bivalves 0.000004～0.000014 Fish 0.000002～0.000011	(Bivalves 0.000001) (Fish 0.000001)									
			1990					31/33	31/33	0.000005～0.0013	(0.000001)	Bivalves 3/3 Fish 1/32	Bivalves 3/3 Fish 1/32	Bivalves 0.000003～0.000007 Fish 0.000004	(Bivalves 0.000001) (Fish 0.000001)									
			1991					32/35	32/35	0.000007～0.0014	(0.000001)	Bivalves 1/3 ish 0/34	Bivalves 1/3 Fish 0/34	Bivalves 0.000004 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1992					34/36	34/36	0.000002～0.00074	(0.000001)	Bivalves 3/3 Fish 4/34	Bivalves 3/3 Fish 4/34	Bivalves 0.000004～0.000010 Fish 0.000001～0.000006	(Bivalves 0.000001) (Fish 0.000001)									
			1993					33/36	33/36	0.000006～0.00043	(0.000001)	Bivalves 3/3 Fish 6/34	Bivalves 3/3 Fish 6/34	Bivalves 0.000001～0.000004 Fish 0.000002～0.000007	(Bivalves 0.000001) (Fish 0.000001)									
			1994					33/36	33/36	0.000004～0.00059	(0.000001)	Bivalves 1/1 Fish 5/34	Bivalves 1/1 Fish 5/34	Bivalves 0.000001 Fish 0.000001～0.000004	(Bivalves 0.000001) (Fish 0.000001)									
			1995					35/36	35/36	0.000001～0.00055	(0.000001)	Bivalves 1/1 Fish 0/34	Bivalves 1/1 Fish 0/34	Bivalves 0.000004 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1996					36/36	36/36	0.0000006～0.00050	(0.0000001)	Fish 3/35	Fish 3/35	Fish 0.0000001～0.0000009	(Fish 0.0000001)									
			1997					39/40	39/40	0.0000006～0.00050	(0.0000001)	Fish 7/39	Fish 7/39	Fish 0.0000001～0.0000011	(Fish 0.0000001)									
490-1-5-1	1,2,3,4,7-Pentachlorodibenzo-*p*-dioxin		1985					0/51	0/51	－	(0.00005)	Fish 0/51	Fish 0/51	Fish －	(Fish 0.00005)									490-1-5-1
			1986	0/18	0/18	－	(0.00001)	0/39	0/39	－	(0.000001)	Fish 0/32	Fish 0/32	Fish －	(Fish 0.000001)									
490-1-5-2	1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin	40321-76-4	1985					0/51	0/51	－	(0.00005)	Fish 0/51	Fish 0/51	Fish －	(Fish 0.00005)									490-1-5-2
			1986	0/18	0/18	－	(0.00001)	20/39	20/39	0.000001～0.000019	(0.000001)	Fish 2/32	Fish 2/32	Fish 0.000002	(Fish 0.000001)									
			1988					20/30	20/30	0.000001～0.000007	(0.000001)	Bivalves 2/2 Fish 4/30	Bivalves 2/2 Fish 4/30	Bivalves 0.000002～0.000009 Fish 0.000001～0.000003	(Bivalves 0.000001) (Fish 0.000001)									
			1989					19/33	19/33	0.000001～0.000005	(0.000001)	Bivalves 2/3 Fish 1/32	Bivalves 2/3 Fish 1/32	Bivalves 0.000001 Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1990					20/33	20/33	0.000001～0.000014	(0.000001)	Bivalves 0/3 Fish 3/32	Bivalves 0/3 Fish 3/32	Bivalves － Fish 0.000001～0.000002	(Bivalves 0.000001) (Fish 0.000001)									
			1991					22/35	22/35	0.000001～0.000010	(0.000001)	Bivalves 0/3 Fish 5/34	Bivalves 0/3 Fish 5/34	Bivalves － Fish 0.000001～0.000002	(Bivalves 0.000001) (Fish 0.000001)									
			1992					22/36	22/36	0.000001～0.000006	(0.000001)	Bivalves 0/3 Fish 2/34	Bivalves 0/3 Fish 2/34	Bivalves － Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1993					22/36	22/36	0.000001～0.000009	(0.000001)	Bivalves 0/3 Fish 1/34	Bivalves 0/3 Fish 1/34	Bivalves － Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1994					21/36	21/36	0.000001～0.000006	(0.000001)	Bivalves 0/1 Fish 2/34	Bivalves 0/1 Fish 2/34	Bivalves － Fish 0.000002	(Bivalves 0.000001) (Fish 0.000001)									
			1995					20/36	20/36	0.000001～0.000008	(0.000001)	Bivalves 0/1 Fish 3/34	Bivalves 0/1 Fish 3/34	Bivalves － Fish 0.000001～0.000002	(Bivalves 0.000001) (Fish 0.000001)									
			1996					32/36	32/36	0.0000001～0.0000055	(0.0000001)	Fish 32/35	Fish 32/35	Fish 0.0000001～0.0000029	(Fish 0.0000001)									
			1997					35/40	35/40	0.0000001～0.0000056	(0.0000001)	Fish 32/39	Fish 32/39	Fish 0.0000001～0.0000007	(Fish 0.0000001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
490-1-6	Hexachlorodibenzo-*p*-dioxins																							490-1-6
	(Other than 1,2,3,4,7,8-isomer and 1,2,3,6,7,8-isomer)		1985					10/51	10/51	0.00006～0.00017	(0.00005)	Fish 0/51	Fish 0/51	Fish －	(Fish 0.00005)									
	(Other than 1,2,3,4,7,8-isomer 1,2,3,6,7,8-isomer and 1,2,3,7,8,9-isomer)		1986	0/18	0/18	－	(0.00001)	33/39	33/39	0.000001～0.00048	(0.000001)	Fish 4/32	Fish 4/32	Fish 0.000003～0.000022	(Fish 0.000001)									
			1988					27/30	27/30	0.000004～0.00014	(0.000001)	Bivalves 1/2 Fish 5/30	Bivalves 1/2 Fish 5/30	Bivalves 0.000002 Fish 0.000002～0.000010	(Bivalves 0.000001) (Fish 0.000001)									
			1989					30/33	30/33	0.000001～0.00046	(0.000001)	Bivalves 2/3 Fish 6/32	Bivalves 2/3 Fish 6/32	Bivalves 0.000006～0.000029 Fish 0.000001～0.000011	(Bivalves 0.000001) (Fish 0.000001)									
			1990					31/33	31/33	0.000002～0.00059	(0.000001)	Bivalves 1/3 Fish 2/32	Bivalves 1/3 Fish 2/32	Bivalves 0.000004 Fish 0.000002～0.000003	(Bivalves 0.000001) (Fish 0.000001)									
			1991					32/35	32/35	0.000003～0.00039	(0.000001)	Bivalves 1/3 Fish 0/34	Bivalves 1/3 Fish 0/34	Bivalves 0.000007 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1992					32/36	32/36	0.000003～0.00029	(0.000001)	Bivalves 2/3 Fish 0/34	Bivalves 2/3 Fish 0/34	Bivalves 0.000002 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1993					33/36	33/36	0.000001～0.00039	(0.000001)	Bivalves 2/3 Fish 0/34	Bivalves 2/3 Fish 0/34	Bivalves 0.000001～0.000002 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1994					33/36	33/36	0.000001～0.00048	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1995					34/36	34/36	0.000001～0.00038	(0.000001)	Bivalves 1/1 Fish 0/34	Bivalves 1/1 Fish 0/34	Bivalves 0.000002 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1996					36/36	36/36	0.0000005～0.00044	(0.0000002)	Fish 0/35	Fish 0/35	Fish －	(Fish 0.0000002)									
			1997					38/40	38/40	0.0000005～0.00046	(0.0000002)	Fish 1/39	Fish 1/39	Fish 0.0000004	(Fish 0.0000002)									
490-1-6-1	1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin		1985					0/51	0/51	－	(0.00005)	Fish 0/51	Fish 0/51	Fish －	(Fish 0.00005)									490-1-6-1
			1986	0/18	0/18	－	(0.00001)	17/39	17/39	0.000001～0.000011	(0.000001)	Fish 0/32	Fish 0/32	Fish －	(Fish 0.000001)									
			1988					14/30	14/30	0.000001～0.000004	(0.000001)	Bivalves 0/2 Fish 0/30	Bivalves 0/2 Fish 0/30	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1989					19/33	19/33	0.000001～0.000009	(0.000001)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1990					25/33	25/33	0.000001～0.000020	(0.000001)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1991					22/35	22/35	0.000001～0.000014	(0.000001)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1992					26/36	26/36	0.000001～0.000012	(0.000001)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1993					27/36	27/36	0.000001～0.000022	(0.000001)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1994					25/36	25/36	0.000001～0.000020	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1995					26/36	26/36	0.000001～0.000015	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1996					30/36	30/36	0.0000002～0.000013	(0.0000002)	Fish 4/35	Fish 4/35	Fish 0.0000002～0.0000012	(Fish 0.0000002)									
			1997					34/40	34/40	0.0000002～0.000014	(0.0000002)	Fish 1/39	Fish 1/39	Fish 0.0000003	(Fish 0.0000002)									
490-1-6-2	1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin	57653-85-7	1985					0/51	0/51	－	(0.00005)	Fish 0/51	Fish 0/51	Fish －	(Fish 0.00005)									490-1-6-2
			1986	0/18	0/18	－	(0.00001)	23/39	23/39	0.000001～0.000039	(0.000001)	Fish 0/32	Fish 0/32	Fish －	(Fish 0.000001)									
			1988					23/30	23/30	0.000001～0.000016	(0.000001)	Bivalves 0/2 Fish 1/30	Bivalves 0/2 Fish 1/30	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1989					26/33	26/33	0.000002～0.000024	(0.000001)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1990					29/33	29/33	0.000001～0.000031	(0.000001)	Bivalves 0/3 Fish 1/32	Bivalves 0/3 Fish 1/32	Bivalves － Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1991					25/35	25/35	0.000002～0.000029	(0.000001)	Bivalves 0/3 Fish 2/34	Bivalves 0/3 Fish 2/34	Bivalves － Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1992					27/36	27/36	0.000001～0.000022	(0.000001)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1993					29/36	29/36	0.000001～0.000033	(0.000001)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1994					28/36	28/36	0.000001～0.000031	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1995					28/36	28/36	0.000001～0.000032	(0.000001)	Bivalves 0/1 Fish 1/34	Bivalves 0/1 Fish 1/34	Bivalves － Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1996					32/36	32/36	0.0000003～0.000027	(0.0000002)	Fish 11/35	Fish 11/35	Fish 0.0000002～0.0000024	(Fish 0.0000002)									
			1997					36/40	36/40	0.0000004～0.000028	(0.0000002)	Fish 5/39	Fish 5/39	Fish 0.0000002～0.0000007	(Fish 0.0000002)									
490-1-6-3	1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin	19408-74-3	1986	0/18	0/18	－	(0.00001)	23/39	23/39	0.000001～0.000042	(0.000001)	Fish 0/32	Fish 0/32	Fish －	(Fish 0.000001)									490-1-6-3
			1988					24/30	24/30	0.000001～0.000013	(0.000001)	Bivalves 0/2 Fish 3/30	Bivalves 0/2 Fish 3/30	Bivalves － Fish 0.000002～0.000008	(Bivalves 0.000001) (Fish 0.000001)									
			1989					24/33	24/33	0.000001～0.000025	(0.000001)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1990					28/33	28/33	0.000002～0.000040	(0.000001)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1991					24/35	24/35	0.000001～0.000033	(0.000001)	Bivalves 0/3 Fish 2/34	Bivalves 0/3 Fish 2/34	Bivalves － Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1992					26/36	26/36	0.000001～0.000024	(0.000001)	Bivalves 0/3 Fish 1/34	Bivalves 0/3 Fish 1/34	Bivalves － Fish 0.000002	(Bivalves 0.000001) (Fish 0.000001)									
			1993					29/36	29/36	0.000001～0.000025	(0.000001)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1994					28/36	28/36	0.000001～0.000032	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1995					28/36	28/36	0.000001～0.000027	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1996					32/36	32/36	0.0000004～0.000025	(0.0000002)	Fish 3/35	Fish 3/35	Fish 0.0000002～0.0000007	(Fish 0.0000002)									
			1997					36/40	36/40	0.0000002～0.000031	(0.0000002)	Fish 1/39	Fish 1/39	Fish 0.0000002	(Fish 0.0000002)									
490-1-7	Heptachlorodibenzo-*p*-dioxins																							490-1-7
490-1-7-1	1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin	35822-46-9	1985					28/51	28/51	0.00005～0.00050	(0.00005)	Fish 0/51	Fish 0/51	Fish －	(Fish 0.00005)									490-1-7-1
			1986	0/18	0/18	－	(0.00005)	32/39	32/39	0.000011～0.0020	(0.000005)	Fish 3/32	Fish 3/32	Fish 0.000008～0.000021	(Fish 0.000005)									
			1988					27/30	27/30	0.000011～0.00014	(0.000005)	Bivalves 0/2 Fish 0/30	Bivalves 0/2 Fish 0/30	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1989					29/33	29/33	0.000007～0.00075	(0.000005)	Bivalves 0/3 Fish 3/32	Bivalves 0/3 Fish 3/32	Bivalves － Fish 0.000008～0.000027	(Bivalves 0.000005) (Fish 0.000005)									
			1990					29/33	29/33	0.000009～0.00089	(0.000005)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1991					29/35	29/35	0.000008～0.00075	(0.000005)	Bivalves 0/3 Fish 1/34	Bivalves 0/3 Fish 1/34	Bivalves － Fish 0.000020	(Bivalves 0.000005) (Fish 0.000005)									
			1992					31/36	31/36	0.000005～0.00078	(0.000005)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1993					32/36	32/36	0.000005～0.00072	(0.000005)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1994					31/36	31/36	0.000006～0.00078	(0.000005)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1995					32/36	32/36	0.000005～0.00083	(0.000005)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1996					36/36	36/36	0.0000004～0.00098	(0.0000002)	Fish 31/35	Fish 31/35	Fish 0.0000002～0.0000014	(Fish 0.0000002)									
			1997					39/40	39/40	0.0000005～0.00096	(0.0000002)	Fish 16/39	Fish 16/39	Fish 0.0000002～0.0000004	(Fish 0.0000002)									
490-1-7-2	1,2,3,4,7,8,9-Heptachlorodibenzo-*p*-dioxin	58200-70-7	1985					30/51	30/51	0.00006～0.00048	(0.00005)	Fish 0/51	Fish 0/51	Fish －	(Fish 0.00005)									490-1-7-2
			1986	0/18	0/18	－	(0.00005)	33/39	33/39	0.000006～0.0028	(0.000005)	Fish 3/32	Fish 3/32	Fish 0.000005～0.000018	(Fish 0.000005)									
			1988					27/30	27/30	0.000016～0.00026	(0.000005)	Bivalves 0/2 Fish 1/30	Bivalves 0/2 Fish 1/30	Bivalves － Fish 0.000008	(Bivalves 0.000005) (Fish 0.000005)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1989					29/33	29/33	0.000008～0.0016	(0.000005)	Bivalves 0/3 Fish 4/32	Bivalves 0/3 Fish 4/32	Bivalves － Fish 0.000008～0.000023	(Bivalves 0.000005) (Fish 0.000005)									
			1990					29/33	29/33	0.000012～0.0018	(0.000005)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1991					31/35	31/35	0.000006～0.0016	(0.000005)	Bivalves 0/3 Fish 1/34	Bivalves 0/3 Fish 1/34	Bivalves － Fish 0.000016	(Bivalves 0.000005) (Fish 0.000005)									
			1992					32/36	32/36	0.000006～0.0015	(0.000005)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1993					32/36	32/36	0.000007～0.0015	(0.000005)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1994					31/36	31/36	0.000007～0.0015	(0.000005)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1995					33/36	33/36	0.000005～0.0016	(0.000005)	Bivalves 1/1 Fish 0/34	Bivalves 1/1 Fish 0/34	Bivalves 0.000005 Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1996					36/36	36/36	0.0000004～0.0019	(0.0000002)	Fish 22/35	Fish 22/35	Fish 0.0000002～0.0000006	(Fish 0.0000002)									
			1997					39/40	39/40	0.0000008～0.0019	(0.0000002)	Fish 7/39	Fish 7/39	Fish 0.0000002～0.0000006	(Fish 0.0000002)									
490-1-8	Octachlorodibenzo-*p*-dioxin	3268-87-9	1985					37/51	37/51	0.0001～0.0076	(0.0001)	Fish 0/51	Fish 0/51	Fish －	(Fish 0.0001)									490-1-8
			1986	4/18	4/18	0.00007～0.00012	(0.00005)	38/39	38/39	0.000019～0.061	(0.000005)	Fish 7/32	Fish 7/32	Fish 0.000006～0.00010	(Fish 0.000005)									
			1987					37/37	37/37	0.000008～0.0028	(0.000005)	Fish 0/37	Fish 0/37	Fish －	(Fish 0.000005)									
			1988					29/30	29/30	0.000011～0.0025	(0.000005)	Bivalves 2/2 Fish 0/30	Bivalves 2/2 Fish 0/30	Bivalves 0.000009～0.000011 Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1989					31/33	31/33	0.000014～0.015	(0.000005)	Bivalves 3/3 Fish 3/32	Bivalves 3/3 Fish 3/32	Bivalves 0.000008～0.000021 Fish 0.00012～0.00028	(Bivalves 0.000005) (Fish 0.000005)									
			1990					30/33	30/33	0.000010～0.011	(0.000005)	Bivalves 1/3 Fish 0/32	Bivalves 1/3 Fish 0/32	Bivalves 0.000010 Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1991					33/35	33/35	0.000008～0.011	(0.000005)	Bivalves 3/3 Fish 1/34	Bivalves 3/3 Fish 1/34	Bivalves 0.000006～0.000027 Fish 0.000019	(Bivalves 0.000005) (Fish 0.000005)									
			1992					34/36	34/36	0.000019～0.014	(0.000005)	Bivalves 3/3 Fish 0/34	Bivalves 3/3 Fish 0/34	Bivalves 0.000006～0.000018 Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1993					34/36	34/36	0.000010～0.012	(0.000005)	Bivalves 2/3 Fish 0/34	Bivalves 2/3 Fish 0/34	Bivalves 0.000006～0.000007 Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1994					35/36	35/36	0.000006～0.013	(0.000005)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1995					35/36	35/36	0.000019～0.017	(0.000005)	Bivalves 1/1 Fish 0/34	Bivalves 1/1 Fish 0/34	Bivalves 0.000025 Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1996					36/36	36/36	0.0000043～0.020	(0.0000005)	Fish 22/35	Fish 22/35	Fish 0.0000005～0.0000050	(Fish 0.0000005)									
			1997					40/40	40/40	0.000002～0.019	(0.0000005)	Fish 13/39	Fish 13/39	Fish 0.0000005～0.000002	(Fish 0.0000005)									
490-2	Polychlorinateddibenzofurans																							490-2
490-2-4	Tetrachlorodibenzofurans																							490-2-4
	(Other than 1,3,6,8-isomer and 2,3,7,8-isomer)		1987					35/37	35/37	0.000001～0.00056	(0.000001)	Fish 16/37	Fish 16/37	Fish 0.000001～0.000031	(Fish 0.000001)									
			1988					28/30	28/30	0.000002～0.00019	(0.000001)	Bivalves 2/2 Fish 22/30	Bivalves 2/2 Fish 22/30	Bivalves 0.000020～0.000030 Fish 0.000001～0.000071	(Bivalves 0.000001) (Fish 0.000001)									
			1989					31/33	31/33	0.000001～0.000240	(0.000001)	Bivalves 3/3 Fish 26/32	Bivalves 3/3 Fish 26/32	Bivalves 0.000005～0.000037 Fish 0.000001～0.000030	(Bivalves 0.000001) (Fish 0.000001)									
			1990					31/33	31/33	0.000001～0.00055	(0.000001)	Bivalves 3/3 Fish 30/32	Bivalves 3/3 Fish 30/32	Bivalves 0.000014～0.000018 Fish 0.000001～0.00011	(Bivalves 0.000001) (Fish 0.000001)									
			1991					32/35	32/35	0.000004～0.00079	(0.000001)	Bivalves 3/3 Fish 32/34	Bivalves 3/3 Fish 32/34	Bivalves 0.000014～0.000034 Fish 0.000002～0.00049	(Bivalves 0.000001) (Fish 0.000001)									
			1992					33/36	33/36	0.000001～0.00081	(0.000001)	Bivalves 3/3 Fish 29/34	Bivalves 3/3 Fish 29/34	Bivalves 0.000006～0.000044 Fish 0.000002～0.00021	(Bivalves 0.000001) (Fish 0.000001)									
			1993					32/36	32/36	0.000001～0.00020	(0.000001)	Bivalves 3/3 Fish 0/34	Bivalves 3/3 Fish 0/34	Bivalves 0.000004～0.000029 Fish －	(Bivalves 0.000001) (Fish 0.000001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1994					30/36	30/36	0.000001～0.000087	(0.000001)	Bivalves 1/1 Fish 5/34	Bivalves 1/1 Fish 5/34	Bivalves 0.000003 Fish 0.000001～0.000002	(Bivalves 0.000001) (Fish 0.000001)									
			1995					33/36	33/36	0.000002～0.00045	(0.000001)	Bivalves 1/1 Fish 2/34	Bivalves 1/1 Fish 2/34	Bivalves 0.000015 Fish 0.000002～0.000003	(Bivalves 0.000001) (Fish 0.000001)									
			1996					35/36	35/36	0.0000003～0.00027	(0.0000001)	Fish 21/35	Fish 21/35	Fish 0.0000001～0.0000019	(Fish 0.0000001)									
			1997					39/40	39/40	0.0000012～0.00026	(0.0000001)	Fish 24/39	Fish 24/39	Fish 0.0000001～0.0000077	(Fish 0.0000001)									
490-2-4-1	1,3,6,8-Tetrachlorodibenzofuran		1987					3/37	3/37	0.000001～0.00017	(0.000001)	Fish 0/37	Fish 0/37	Fish －	(Fish 0.000001)									490-2-4-1
			1988					9/30	9/30	0.000001～0.000023	(0.000001)	Bivalves 2/2 Fish 18/30	Bivalves 2/2 Fish 18/30	Bivalves 0.000001～0.000002 Fish 0.000001～0.000012	(Bivalves 0.000001) (Fish 0.000001)									
			1989					15/33	15/33	0.000001～0.000010	(0.000001)	Bivalves 1/3 Fish 1/32	Bivalves 1/3 Fish 1/32	Bivalves 0.000003 Fish 0.000002	(Bivalves 0.000001) (Fish 0.000001)									
			1990					19/33	19/33	0.000001～0.000042	(0.000001)	Bivalves 3/3 Fish 0/32	Bivalves 3/3 Fish 0/32	Bivalves 0.000001～0.000002 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1991					13/35	13/35	0.000001～0.000008	(0.000001)	Bivalves 2/3 Fish 8/34	Bivalves 2/3 Fish 8/34	Bivalves 0.000001～0.000006 Fish 0.000001～0.000026	(Bivalves 0.000001) (Fish 0.000001)									
			1992					17/36	17/36	0.000001～0.00017	(0.000001)	Bivalves 2/3 Fish 0/34	Bivalves 2/3 Fish 0/34	Bivalves 0.000002～0.000006 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1993					13/36	13/36	0.000001～0.000013	(0.000001)	Bivalves 1/3 Fish 0/34	Bivalves 1/3 Fish 0/34	Bivalves 0.000003 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1994					9/36	9/36	0.000001～0.000009	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1995					20/36	20/36	0.000001～0.000017	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1996					29/36	29/36	0.0000002～0.000018	(0.0000001)	Fish 10/35	Fish 10/35	Fish 0.0000001～0.0000003	(Fish 0.0000001)									
			1997					35/40	35/40	0.0000001～0.000035	(0.0000001)	Fish 9/39	Fish 9/39	Fish 0.0000001～0.0000009	(Fish 0.0000001)									
490-2-4-2	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1985					5/51	5/51	0.00001～0.00005	(0.00001)	Fish 0/51	Fish 0/51	Fish －	(Fish 0.00001)									490-2-4-2
			1986	0/18	0/18	－	(0.00001)	13/39	13/39	0.000001～0.000018	(0.000001)	Fish 11/32	Fish 11/32	Fish 0.000001～0.000005	(Fish 0.000001)									
			1987					18/37	18/37	0.000001～0.000006	(0.000001)	Fish 7/37	Fish 7/37	Fish 0.000001～0.000004	(Fish 0.000001)									
			1988					10/30	10/30	0.000001～0.000009	(0.000001)	Bivalves 2/2 Fish 19/30	Bivalves 2/2 Fish 19/30	Bivalves 0.000002 Fish 0.000001～0.000008	(Bivalves 0.000001) (Fish 0.000001)									
			1989					20/33	20/33	0.000001～0.000016	(0.000001)	Bivalves 2/3 Fish 9/32	Bivalves 2/3 Fish 9/32	Bivalves 0.000001～0.000002 Fish 0.000001～0.000008	(Bivalves 0.000001) (Fish 0.000001)									
			1990					21/33	21/33	0.000001～0.000020	(0.000001)	Bivalves 1/3 Fish 23/32	Bivalves 1/3 Fish 23/32	Bivalves 0.000001 Fish 0.000001～0.000020	(Bivalves 0.000001) (Fish 0.000001)									
			1991					22/35	22/35	0.000001～0.00015	(0.000001)	Bivalves 1/3 Fish 8/34	Bivalves 1/3 Fish 8/34	Bivalves 0.000001 Fish 0.000001～0.000008	(Bivalves 0.000001) (Fish 0.000001)									
			1992					22/36	22/36	0.000001～0.000035	(0.000001)	Bivalves 1/3 Fish 10/34	Bivalves 1/3 Fish 10/34	Bivalves 0.000001 Fish 0.000001～0.000002	(Bivalves 0.000001) (Fish 0.000001)									
			1993					20/36	20/36	0.000001～0.000015	(0.000001)	Bivalves 1/3 Fish 11/34	Bivalves 1/3 Fish 11/34	Bivalves 0.000001 Fish 0.000001～0.000003	(Bivalves 0.000001) (Fish 0.000001)									
			1994					15/36	15/36	0.000001～0.000017	(0.000001)	Bivalves 0/1 Fish 11/34	Bivalves 0/1 Fish 11/34	Bivalves － Fish 0.000001～0.000004	(Bivalves 0.000001) (Fish 0.000001)									
			1995					22/36	22/36	0.000001～0.000024	(0.000001)	Bivalves 0/1 Fish 7/34	Bivalves 0/1 Fish 7/34	Bivalves － Fish 0.000002～0.000004	(Bivalves 0.000001) (Fish 0.000001)									
			1996					29/36	29/36	0.0000002～0.000014	(0.0000001)	Fish 33/35	Fish 33/35	Fish 0.0000001～0.0000027	(Fish 0.0000001)									
			1997					34/40	34/40	0.0000001～0.000016	(0.0000001)	Fish 36/39	Fish 36/39	Fish 0.0000001～0.0000037	(Fish 0.0000001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
490-2-5	Pentachlorodibenzofurans																							490-2-5
	(Other than 1,2,3,7,8-isomer and 2,3,4,7,8-isomer)		1987					32/37	32/37	0.000002～0.00016	(0.000001)	Fish 7/37	Fish 7/37	Fish 0.000001～0.000009	(Fish 0.000001)									
			1988					27/30	27/30	0.000002～0.000093	(0.000001)	Bivalves 2/2 Fish 20/30	Bivalves 2/2 Fish 20/30	Bivalves 0.000001～0.000003 Fish 0.000002～0.000034	(Bivalves 0.000001) (Fish 0.000001)									
			1989					29/33	29/33	0.000001～0.00043	(0.000001)	Bivalves 3/3 Fish 21/32	Bivalves 3/3 Fish 21/32	Bivalves 0.000010～0.000018 Fish 0.000001～0.000055	(Bivalves 0.000001) (Fish 0.000001)									
			1990					29/33	29/33	0.000015～0.00031	(0.000001)	Bivalves 2/3 Fish 25/32	Bivalves 2/3 Fish 25/32	Bivalves 0.000007 Fish 0.000003～0.000041	(Bivalves 0.000001) (Fish 0.000001)									
			1991					30/35	30/35	0.000006～0.00021	(0.000001)	Bivalves 3/3 Fish 28/34	Bivalves 3/3 Fish 28/34	Bivalves 0.000005～0.000008 Fish 0.000001～0.000088	(Bivalves 0.000001) (Fish 0.000001)									
			1992					32/36	32/36	0.000002～0.00055	(0.000001)	Bivalves 2/3 Fish 24/34	Bivalves 2/3 Fish 24/34	Bivalves 0.000003～0.000005 Fish 0.000002～0.000073	(Bivalves 0.000001) (Fish 0.000001)									
			1993					31/36	31/36	0.000005～0.00031	(0.000001)	Bivalves 2/3 Fish 1/34	Bivalves 2/3 Fish 1/34	Bivalves 0.000004～0.000009 Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1994					29/36	29/36	0.000008～0.00027	(0.000001)	Bivalves 0/1 Fish 3/34	Bivalves 0/1 Fish 3/34	Bivalves － Fish 0.000001～0.000002	(Bivalves 0.000001) (Fish 0.000001)									
			1995					32/36	32/36	0.000003～0.00037	(0.000001)	Bivalves 1/1 Fish 1/34	Bivalves 1/1 Fish 1/34	Bivalves 0.000007 Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1996					35/36	35/36	0.0000002～0.00081	(0.0000001)	Fish 22/35	Fish 22/35	Fish 0.0000001～0.0000015	(Fish 0.0000001)									
			1997					39/40	39/40	0.0000006～0.001	(0.0000001)	Fish 23/39	Fish 23/39	Fish 0.0000001～0.0000064	(Fish 0.0000001)									
490-2-5-1	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1987					11/37	11/37	0.000001～0.000011	(0.000001)	Fish 1/37	Fish 1/37	Fish 0.000002	(Fish 0.000001)									490-2-5-1
			1988					10/30	10/30	0.000001～0.000006	(0.000001)	Bivalves 0/2 Fish 6/30	Bivalves 0/2 Fish 6/30	Bivalves － Fish 0.000002～0.000009	(Bivalves 0.000001) (Fish 0.000001)									
			1989					21/33	21/33	0.000001～0.000013	(0.000001)	Bivalves 2/3 Fish 1/32	Bivalves 2/3 Fish 1/32	Bivalves 0.000002 Fish 0.000002	(Bivalves 0.000001) (Fish 0.000001)									
			1990					29/33	29/33	0.000001～0.000032	(0.000001)	Bivalves 0/3 Fish 2/32	Bivalves 0/3 Fish 2/32	Bivalves － Fish 0.000001～0.000003	(Bivalves 0.000001) (Fish 0.000001)									
			1991					21/35	21/35	0.000001～0.000013	(0.000001)	Bivalves 0/3 Fish 7/34	Bivalves 0/3 Fish 7/34	Bivalves － Fish 0.000001～0.000007	(Bivalves 0.000001) (Fish 0.000001)									
			1992					29/36	29/36	0.000001～0.000022	(0.000001)	Bivalves 0/3 Fish 9/34	Bivalves 0/3 Fish 9/34	Bivalves － Fish 0.000001～0.000009	(Bivalves 0.000001) (Fish 0.000001)									
			1993					27/36	27/36	0.000001～0.000049	(0.000001)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1994					26/36	26/36	0.000001～0.000050	(0.000001)	Bivalves 0/1 Fish 2/34	Bivalves 0/1 Fish 2/34	Bivalves － Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1995					26/36	26/36	0.000001～0.000043	(0.000001)	Bivalves 0/1 Fish 2/34	Bivalves 0/1 Fish 2/34	Bivalves － Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1996					32/36	32/36	0.0000001～0.000027	(0.0000001)	Fish 28/35	Fish 28/35	Fish 0.0000001～0.0000010	(Fish 0.0000001)									
			1997					36/40	36/40	0.0000001～0.000027	(0.0000001)	Fish 22/39	Fish 22/39	Fish 0.0000001～0.0000005	(Fish 0.0000001)									
490-2-5-2	2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	1987					13/37	13/37	0.000001～0.000017	(0.000001)	Fish 7/37	Fish 7/37	Fish 0.000001～0.000007	(Fish 0.000001)									490-2-5-2
			1988					12/30	12/30	0.000001～0.000006	(0.000001)	Bivalves 0/2 Fish 8/30	Bivalves 0/2 Fish 8/30	Bivalves － Fish 0.000001～0.000003	(Bivalves 0.000001) (Fish 0.000001)									
			1989					21/33	21/33	0.000001～0.000014	(0.000001)	Bivalves 2/3 Fish 22/32	Bivalves 2/3 Fish 22/32	Bivalves 0.000001～0.000002 Fish 0.000001～0.000004	(Bivalves 0.000001) (Fish 0.000001)									
			1990					27/33	27/33	0.000001～0.000019	(0.000001)	Bivalves 0/3 Fish 11/32	Bivalves 0/3 Fish 11/32	Bivalves － Fish 0.000001～0.000005	(Bivalves 0.000001) (Fish 0.000001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1991					23/35	23/35	0.000001～0.000015	(0.000001)	Bivalves 0/3 Fish 9/34	Bivalves 0/3 Fish 9/34	Bivalves － Fish 0.000001～0.000008	(Bivalves 0.000001) (Fish 0.000001)									
			1992					25/36	25/36	0.000001～0.000013	(0.000001)	Bivalves 0/3 Fish 8/34	Bivalves 0/3 Fish 8/34	Bivalves － Fish 0.000001～0.000004	(Bivalves 0.000001) (Fish 0.000001)									
			1993					27/36	27/36	0.000001～0.000026	(0.000001)	Bivalves 0/3 Fish 9/34	Bivalves 0/3 Fish 9/34	Bivalves － Fish 0.000001～0.000004	(Bivalves 0.000001) (Fish 0.000001)									
			1994					25/36	25/36	0.000001～0.000024	(0.000001)	Bivalves 0/1 Fish 12/34	Bivalves 0/1 Fish 12/34	Bivalves － Fish 0.000001～0.000007	(Bivalves 0.000001) (Fish 0.000001)									
			1995					25/36	25/36	0.000001～0.000026	(0.000001)	Bivalves 0/1 Fish 10/34	Bivalves 0/1 Fish 10/34	Bivalves － Fish 0.000001～0.000008	(Bivalves 0.000001) (Fish 0.000001)									
			1996					30/36	30/36	0.0000001～0.000016	(0.0000001)	Fish 32/35	Fish 32/35	Fish 0.0000001～0.0000033	(Fish 0.0000001)									
			1997					35/40	35/40	0.0000001～0.000018	(0.0000001)	Fish 37/39	Fish 37/39	Fish 0.0000001～0.0000017	(Fish 0.0000001)									
490-2-6	Hexachlorodibenzofurans																							490-2-6
	(Other than 1,2,3,4,7,8-isomer and 1,2,3,6,7,8-isomer 1,2,3,7,8,9-isomer and 2,3,4,6,7,8-isomer)		1987					32/37	32/37	0.000003～0.00026	(0.000001)	Fish 0/37	Fish 0/37	Fish －	(Fish 0.000001)									
			1989					29/33	29/33	0.000001～0.00014	(0.000001)	Bivalves 1/3 Fish 4/32	Bivalves 1/3 Fish 4/32	Bivalves 0.000010 Fish 0.000001～0.000002	(Bivalves 0.000001) (Fish 0.000001)									
			1990					29/33	29/33	0.000010～0.00030	(0.000001)	Bivalves 1/3 Fish 11/32	Bivalves 1/3 Fish 11/32	Bivalves 0.000003 Fish 0.000002～0.000012	(Bivalves 0.000001) (Fish 0.000001)									
			1991					30/35	30/35	0.000002～0.00021	(0.000001)	Bivalves 0/3 Fish 17/34	Bivalves 0/3 Fish 17/34	Bivalves － Fish 0.000001～0.000019	(Bivalves 0.000001) (Fish 0.000001)									
			1992					33/36	33/36	0.000002～0.00089	(0.000001)	Bivalves 0/3 Fish 17/34	Bivalves 0/3 Fish 17/34	Bivalves － Fish 0.000002～0.000022	(Bivalves 0.000001) (Fish 0.000001)									
			1993					31/36	31/36	0.000003～0.00039	(0.000001)	Bivalves 2/3 Fish 1/34	Bivalves 2/3 Fish 1/34	Bivalves 0.000001 Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1994					30/36	30/36	0.000001～0.00048	(0.000001)	Bivalves 0/1 Fish 3/34	Bivalves 0/1 Fish 3/34	Bivalves － Fish 0.000001～0.000012	(Bivalves 0.000001) (Fish 0.000001)									
			1995					33/36	33/36	0.000001～0.00035	(0.000001)	Bivalves 1/1 Fish 0/34	Bivalves 1/1 Fish 0/34	Bivalves 0.000007 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1996					36/36	36/36	0.0000002～0.0010	(0.0000002)	Fish 0/35	Fish 0/35	Fish －	(Fish 0.0000002)									
			1997					39/40	39/40	0.0000005～0.0015	(0.0000002)	Fish 7/39	Fish 7/39	Fish 0.0000002～0.0000059	(Fish 0.0000002)									
490-2-6-1	1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	1987					0/37	0/37	－	(0.000001)	Fish 0/37	Fish 0/37	Fish －	(Fish 0.000001)									490-2-6-1
			1989					27/33	27/33	0.000001～0.000048	(0.000001)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1990					29/33	29/33	0.000001～0.000029	(0.000001)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1991					25/35	25/35	0.000001～0.000038	(0.000001)	Bivalves 1/3 Fish 0/34	Bivalves 1/3 Fish 0/34	Bivalves 0.000001 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1992					29/36	29/36	0.000001～0.000036	(0.000001)	Bivalves 0/3 Fish 1/34	Bivalves 0/3 Fish 1/34	Bivalves － Fish 0.000002	(Bivalves 0.000001) (Fish 0.000001)									
			1993					30/36	30/36	0.000001～0.000070	(0.000001)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1994					28/36	28/36	0.000001～0.000078	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1995					28/36	28/36	0.000002～0.000065	(0.000001)	Bivalves 1/1 Fish 0/34	Bivalves 1/1 Fish 0/34	Bivalves 0.000002 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1996					32/36	32/36	0.0000002～0.000040	(0.0000002)	Fish 6/35	Fish 6/35	Fish 0.0000002～0.0000006	(Fish 0.0000002)									
			1997					36/40	36/40	0.0000003～0.000044	(0.0000002)	Fish 0/39	Fish 0/39	Fish －	(Fish 0.0000002)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
490-2-6-2	1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	1987					24/37	24/37	0.000001～ 0.000025	(0.000001)	Fish 0/37	Fish 0/37	Fish －	(Fish 0.000001)									490-2-6-2
			1989					21/33	21/33	0.000001～ 0.000019	(0.000001)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1990					28/33	28/33	0.000001～ 0.000024	(0.000001)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1991					25/35	25/35	0.000001～ 0.000024	(0.000001)	Bivalves 0/3 Fish 1/34	Bivalves 0/3 Fish 1/34	Bivalves － Fish 0.000008	(Bivalves 0.000001) (Fish 0.000001)									
			1992					26/36	26/36	0.000001～ 0.000026	(0.000001)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1993					30/36	30/36	0.000001～ 0.000047	(0.000001)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1994					27/36	27/36	0.000001～ 0.000042	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1995					26/36	26/36	0.000002～ 0.000036	(0.000001)	Bivalves 1/1 Fish 0/34	Bivalves 1/1 Fish 0/34	Bivalves 0.000001 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1996					30/36	30/36	0.0000002～ 0.000022	(0.0000002)	Fish 4/35	Fish 4/35	Fish 0.0000002～ 0.0000006	(Fish 0.0000002)									
			1997					34/40	34/40	0.0000002～ 0.000028	(0.0000002)	Fish 0/39	Fish 0/39	Fish －	(Fish 0.0000002)									
490-2-6-3	1,2,3,7,8,9-Hexachlorodibenzofuran	72918-38-8	1987					6/37	6/37	0.000001～ 0.000009	(0.000001)	Fish 0/37	Fish 0/37	Fish －	(Fish 0.000001)									490-2-6-3
			1989					23/33	23/33	0.000001～ 0.000037	(0.000001)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1990					2/33	2/33	0.000002～ 0.000015	(0.000001)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1991					4/35	4/35	0.000002～ 0.000004	(0.000001)	Bivalves 1/3 Fish 0/34	Bivalves 1/3 Fish 0/34	Bivalves 0.000004 Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1992					4/36	4/36	0.000001～ 0.000005	(0.000001)	Bivalves 0/3 Fish 4/34	Bivalves 0/3 Fish 4/34	Bivalves － Fish 0.000002～ 0.000010	(Bivalves 0.000001) (Fish 0.000001)									
			1993					23/36	23/36	0.000001～ 0.000015	(0.000001)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1994					20/36	20/36	0.000001～ 0.000011	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1995					16/36	16/36	0.000001～ 0.000010	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1996					21/36	21/36	0.0000001～ 0.0000015	(0.0000002)	Fish 0/35	Fish 0/35	Fish －	(Fish 0.0000002)									
			1997					17/40	17/40	0.0000003～ 0.0000038	(0.0000002)	Fish 0/39	Fish 0/39	Fish －	(Fish 0.0000002)									
490-2-6-4	2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	1987					0/37	0/37	－	(0.000001)	Fish 0/37	Fish 0/37	Fish －	(Fish 0.000001)									490-2-6-4
			1989					0/33	0/33	－	(0.000001)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1990					28/33	28/33	0.000001～ 0.000055	(0.000001)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1991					25/35	25/35	0.000001～ 0.000062	(0.000001)	Bivalves 0/3 Fish 2/34	Bivalves 0/3 Fish 2/34	Bivalves － Fish 0.000001～ 0.000002	(Bivalves 0.000001) (Fish 0.000001)									
			1992					29/36	29/36	0.000001～ 0.000040	(0.000001)	Bivalves 0/3 Fish 1/34	Bivalves 0/3 Fish 1/34	Bivalves － Fish 0.000001	(Bivalves 0.000001) (Fish 0.000001)									
			1993					30/36	30/36	0.000001～ 0.000094	(0.000001)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1994					28/36	28/36	0.000001～ 0.00010	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1995					28/36	28/36	0.000001～ 0.000062	(0.000001)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000001) (Fish 0.000001)									
			1996					31/36	31/36	0.0000003～ 0.000035	(0.0000002)	Fish 7/35	Fish 7/35	Fish 0.0000002～ 0.0000012	(Fish 0.0000002)									
			1997					36/40	36/40	0.0000002～ 0.000049	(0.0000002)	Fish 3/39	Fish 3/39	Fish 0.0000002～ 0.0000004	(Fish 0.0000002)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
490-2-7	Heptachlorodibenzofurans																							490-2-7
	(Other than 1,2,3,4,6,7,8-isomer and 1,2,3,4,7,8,9-isomer)		1989					27/33	27/33	0.000010～0.00019	(0.000005)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1990					28/33	28/33	0.000008～0.00020	(0.000005)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1991					27/35	27/35	0.000006～0.00027	(0.000005)	Bivalves 0/3 Fish 2/34	Bivalves 0/3 Fish 2/34	Bivalves － Fish 0.000010～0.00013	(Bivalves 0.000005) (Fish 0.000005)									
			1992					29/36	29/36	0.000006～0.00030	(0.000005)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1993					30/36	30/36	0.000009～0.00043	(0.000005)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1994					29/36	29/36	0.000008～0.00073	(0.000005)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1995					28/36	28/36	0.000012～0.00043	(0.000005)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1996					35/36	35/36	0.0000005～0.0016	(0.0000002)	Fish 9/35	Fish 9/35	Fish 0.0000002～0.0000007	(Fish 0.0000002)									
			1997					37/40	37/40	0.0000011～0.00051	(0.0000002)	Fish 6/39	Fish 6/39	Fish 0.0000002～0.0000007	(Fish 0.0000002)									
490-2-7-1	1,2,3,4,6,7,8-Heptachloro dibenzofuran		1987					25/37	25/37	0.000006～0.000099	(0.000005)	Fish 0/37	Fish 0/37	Fish －	(Fish 0.000005)									490-2-7-1
			1989					28/33	28/33	0.000007～0.00033	(0.000005)	Bivalves 1/3 Fish 0/32	Bivalves 1/3 Fish 0/32	Bivalves 0.000006 Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1990					29/33	29/33	0.000012～0.00026	(0.000005)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1991					27/35	27/35	0.000006～0.00023	(0.000005)	Bivalves 0/3 Fish 2/34	Bivalves 0/3 Fish 2/34	Bivalves － Fish 0.000007～0.000009	(Bivalves 0.000005) (Fish 0.000005)									
			1992					29/36	29/36	0.000005～0.00037	(0.000005)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1993					31/36	31/36	0.000005～0.00043	(0.000005)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1994					30/36	30/36	0.000007～0.00062	(0.000005)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1995					28/36	28/36	0.000010～0.00038	(0.000005)	Bivalves 1/1 Fish 0/34	Bivalves 1/1 Fish 0/34	Bivalves 0.000013 Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1996					36/36	36/36	0.0000004～0.0011	(0.0000002)	Fish 27/35	Fish 27/35	Fish 0.0000002～0.0000004	(Fish 0.0000002)									
			1997					39/40	39/40	0.0000002～0.00043	(0.0000002)	Fish 7/39	Fish 7/39	Fish 0.0000003～0.0000005	(Fish 0.0000002)									
490-2-7-2	1,2,3,4,6,7,9-Heptachloro dibenzofuran		1987					0/37	0/37	－	(0.000005)	Fish 0/37	Fish 0/37	Fish －	(Fish 0.000005)									490-2-7-2
490-2-7-3	1,2,3,4,7,8,9-Heptachloro dibenzofuran		1987					22/37	22/37	0.000005～0.00013	(0.000005)	Fish 0/37	Fish 0/37	Fish －	(Fish 0.000005)									490-2-7-3
			1989					9/33	9/33	0.000006～0.000013	(0.000005)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1990					14/33	14/33	0.000005～0.00011	(0.000005)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1991					19/35	19/35	0.000005～0.000025	(0.000005)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1992					16/36	16/36	0.000005～0.000056	(0.000005)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1993					21/36	21/36	0.000005～0.000094	(0.000005)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1994					22/36	22/36	0.000005～0.000098	(0.000005)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1995					21/36	21/36	0.000005～0.000053	(0.000005)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1996					30/36	30/36	0.0000002～0.00013	(0.0000002)	Fish 1/35	Fish 1/35	Fish 0.0000002	(Fish 0.0000002)									
			1997					36/40	36/40	0.0000002～0.000077	(0.0000002)	Fish 0/39	Fish 0/39	Fish －	(Fish 0.0000002)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
490-2-8	Octachlorodibenzofuran		1987					32/37	32/37	0.000006～0.00023	(0.000005)	Fish 0/37	Fish 0/37	Fish －	(Fish 0.000005)									490-2-8
			1988					27/30	27/30	0.000006～0.000086	(0.000005)	Bivalves 0/2 Fish 0/30	Bivalves 0/2 Fish 0/30	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1989					29/33	29/33	0.000006～0.00042	(0.000005)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1990					29/33	29/33	0.000013～0.00068	(0.000005)	Bivalves 0/3 Fish 0/32	Bivalves 0/3 Fish 0/32	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1991					28/35	28/35	0.000009～0.00039	(0.000005)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1992					30/36	30/36	0.000007～0.0017	(0.000005)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1993					31/36	31/36	0.000005～0.0020	(0.000005)	Bivalves 0/3 Fish 0/34	Bivalves 0/3 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1994					30/36	30/36	0.000006～0.00080	(0.000005)	Bivalves 0/1 Fish 0/34	Bivalves 0/1 Fish 0/34	Bivalves － Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1995					30/36	30/36	0.000006～0.0012	(0.000005)	Bivalves 1/1 Fish 0/34	Bivalves 1/1 Fish 0/34	Bivalves 0.000017 Fish －	(Bivalves 0.000005) (Fish 0.000005)									
			1996					35/36	35/36	0.0000009～0.0012	(0.0000005)	Fish 4/35	Fish 4/35	Fish 0.0000005～0.0000006	(Fish 0.0000005)									
			1997					38/40	38/40	0.0000016～0.0018	(0.0000005)	Fish 0/39	Fish 0/39	Fish －	(Fish 0.0000005)									
491	1,3-Dioxorane	646-06-0	2019													0/51	0/17	－	(86)					491
			2021	0/21	0/21	－	(2.4)																	
	Dipentamethylenethiuramtetrasulfide	See Bis(piperidinothiocarbonyl)tetrasulphide																						
492	2,4-Di-*tert* -pentylphenol	120-95-6	2013	0/25	0/25	－	(0.00098)	16/72	7/24	0.00014～0.0016	(0.00014)													492
493	Diphenylamine	122-39-4	1976	0/80	0/20	－	(0.6～5)	0/20	0/9	－	(0.20～0.74)	Fish 0/20	Fish 0/9	Fish －	(Fish 0.15 ～0.25)									493
			1990	3/81	1/27	0.4～1.2	(0.2)	12/63	4/21	0.0063～0.2	(0.005)	Fish 2/72	Fish 1/24	Fish 0.03	(Fish 0.02)									
			2007	17/57	8/19	0.011～0.026	(0.0085)																	
494	(*Z*)-2-[4-(1,2-Diphenyl-1-butenyl) phenoxy]-*N* ,*N* -dimethylethylamine and its metabolites																							494
494-1	(*Z*)-2-[4-(1,2-Diphenyl-1-butenyl) phenoxy]-*N* ,*N* -dimethylethylamine	10540-29-1	2023	5/30	5/30	0.000028～0.000076	(0.000028)																	494-1
494-2	(*Z*)-2-[4-(1,2-Diphenyl-1-butenyl) phenoxy]-*N* -methyl-ethanamine	31750-48-8	2023	2/30	2/30	0.000033～0.000039	(0.000030)																	494-2
494-3	4-[(*Z*)-1-[4-[2-(dimethylamino) ethoxy] phenyl]-2-phenyl-1-butenyl] phenol	68047-06-3	2023	0/30	0/30	－	(0.000030)																	494-3
494-4	4-[(*Z*)-1-[4-[2-(methylamino)ethoxy] phenyl]-2-phenyl-1-butenyl]phenol	112093-28-4	2023	0/30	0/30	－	(0.00011)																	494-4
495	Diphenyldisulfane	882-33-7	1983	0/30	0/10	－	(0.1)	0/30	0/10	－	(0.005～0.024)													495
			2016	0/15	0/15	－	(0.00057)									0/39	0/13	－	(1.9)					
	Diphenyldisulfide	See Diphenyldisulfane																						
	Diphenyldisulphide	See Diphenyldisulfane																						
496	Diphenylether	101-84-8	1976	0/88	0/22	－	(0.6～5)	0/28	0/11	－	(0.1～0.74)	Fish 0/20	Fish 0/9	Fish －	(Fish 0.15 ～0.25)									496
			1984	0/24	0/8	－	(0.02～0.08)	0/24	0/8	－	(0.0006～0.003)													
			2024	0/12	0/12	－	(0.0031)																	
497	1,3-Diphenylguanidine	102-06-7	1978	0/42	0/14	－	(2～50)	0/42	0/14	－	(0.1～0.5)													497
			2022	19/29	19/29	0.0082～0.22	(0.0050)																	
	1,1-Diphenylhydrazine	See *N* ,*N* -Diphenylhydrazine																						
	1,2-Diphenylhydrazine	See Hydrazobenzene																						
	N ,*N*′-Diphenylhydrazine	See Hydrazobenzene																						
498	*N* ,*N* -Diphenylhydrazine	530-50-7	1982	0/9	0/3	－	(10)	0/9	0/3	－	(0.3)													498
499	5,5-Diphenyl-2,4-imidazolidinedione (synonym: Phenytoin)	57-41-0	2006	9/33	3/11	0.0040～0.011	(0.0022)																	499
			2016	2/15	2/15	0.0049～0.028	(0.0021)																	
500	Diphenylmethane	101-81-5	1983	0/33	0/11	－	(0.03～0.4)	3/33	2/11	0.059～0.16	(0.004～0.041)													500
			1984	2/138	1/46	0.6～1.1	(0.008～0.5)	10/138	4/46	0.0006～0.0019	(0.0004～0.044)	Fish 3/138	Fish 1/42	Fish 0.0019～0.0049	(Fish 0.0001～0.008)									
			2004					6/18	2/6	0.0013～0.02	(0.0004)													
501	*N* ,*N*′-Diphenyl-*p* -phenylenediamine	74-31-7	2004	0/18	0/6	－	(0.006)									3/3	1/1	0.002～0.009	(0.001)					501
			2008	0/48	0/48	－	(0.0017)																	
			2010													W.S. 0/114	W.S. 0/37	W.S. －	(W.S. 0.00034)					
	Diphenyltin compounds	See Organotin compounds (synonym: Diphenyltin compounds)																						
502	Diphenyl tolyl phosphate	26444-49-5	1981	0/63	0/21	－	(0.05)	0/63	0/21	－	(0.005)													502
503	Disodium 4-amino-3-[4'-(2,4-diaminophenylazo)-1,1'-biphenyl-4-ylazo]-5-hydroxy-6-phenylazo-2,7-naphthalenedisulfonate (synonym: C.I. Direct black 38)	1937-37-7	2013	0/14	0/14	－	(0.034)																	503
504	Disodium 2,2'-([1,1'-biphenyl]-4,4'-diyldivinylene)bis(benzenesulphonate) (synonym: Fluorescent 351)	27344-41-8	1982	15/45	5/15	0.1～0.7	(0.1～0.2)	25/45	10/15	0.01～2.1	(0.005～0.04)													504
	Disodium 4,4'-bis[(4-anilino-6-morpholino-1,3,5-triazin-2-yl)amino]stilbene-2,2'-disulfonic acid	See Disodium 2,2'-vinylenebis[5-(4-morpholino-6-anilino-1,3,5-triazin-2-ylamino)benzenesulfonate]																						
	Disodium 4,4'-bis(2-sulfostyryl) biphenyl	See Disodium 2,2'-([1,1'-biphenyl]-4,4'-diyldivinylene)bis(benzenesulphonate)																						

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
505	Disodium 2,2'-vinylenebis[5-(4-morpholino-6-anilino-1,3,5-triazin-2-ylamino)benzenesulfonate] (synonym: C.I. Fluorescent 260)	16090-02-1	1982	0/45	0/15	—	(0.6～2)	13/45	5/15	0.04～0.2	(0.05 ～0.12)													505
			2008													0/15	0/5	—	(0.16)					
	Distearyl thiodipropionate	See Dioctadecyl 3,3'-thiobispropionate																						
506	Disulfiram	97-77-8	1992	0/30	0/10	—	(2.64)																	506
	Disulfoton	See *O*,*O*-Diethyl *S*-[2-(ethylthio)ethyl] dithiophosphate																						
507	2,2'-Dithiobis(benzothiazole)	120-78-5	1977	0/12	0/6	—	(0.5)	0/12	0/6	—	(0.05～0.17)													507
508	*N*,*N*′-Ditolyl-*p*-phenylenediamine	27417-40-9	2004	0/18	0/6	—	(0.009)									0/3	0/1	—	(0.0006)					508
			2008	0/48	0/48	—	(0.0020)																	
			2010													W.S. 0/114	W.S. 0/37	W.S. —	(W.S. 0.00051)					
509	Divinylbenzenes	1321-74-0	2006	0/15	0/5	—	(0.002)																	509
	Divinylbenzenes (Total of *m*-Divinylbenzene and *p*-Divinylbenzene)	108-57-6, 105-06-6	2014													0/30	0/10	—	(13)					
510	*N*,*N*′-Dixylyl-*p*-phenylenediamine	28726-30-9	2004	0/18	0/6	—	(0.020)									0/3	0/1	—	(0.001)					510
			2008	0/48	0/48	—	(0.0021)																	
			2010													W.S. 0/114	W.S. 0/37	W.S. —	(W.S. 0.00034)					
	DMT	See Dimethyl terephthalate																						
	DMTP	See *S*-(2,3-Dihydro-5-methoxy-2-oxo-1,3,4-thiadiazol-3-yl)methyl-*O*,*O*-dimethyl dithiophosphate																						
	1,2,3,4,7,8,9,10,13,13,14,14-Dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10-dimethanodibenzo[a,e]cyclooctene	See Dechlorane pluses																						
	Dodecachlorododecahydrodimethanodibenzocyclooctene	See 1,2,3,4,7,8,9,10,13,13,14,14-Dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12,12a-dodecahydro-1,4:7,10-dimethanodibenzo[a,e]cyclooctene																						
511	Dodecyl acrylate	2156-97-0	2024	5/42	5/42	0.023～0.078	(0.022)																	511
512	Doxycycline	564-25-0	2014	0/16	0/16	—	(0.02)																	512
	EDDP	See *O*-Ethyl *S*,*S*-diphenyl dithiophosphate																						
	Edifenphos	See *O*-Ethyl *S*,*S*-diphenyl dithiophosphate																						
	EDTA	See Ethylenediaminetetraacetic acid																						
	Endosulfan	See 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin 3-oxides																						
	Endosulfan sulfate	See Endosulfansulfate																						
513	Endosulfansulfate	1031-07-8	1983	0/36	0/12	—	(0.03～0.4)	0/36	0/12	—	(0.003～0.054)													513
	4-Endoxifen	See 4-[(*Z*)-1-[4-[2-(methylamino)ethoxy]phenyl]-2-phenyl-1-butenyl]phenol																						
	Endrin	See 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethanonaphthalene																						
514	Epichlorohydrin	106-89-8	1977	0/3	0/1	—	(10)	0/3	0/1	—	(0.06)													514
			1986	0/27	0/9	—	(0.5)	0/27	0/9	—	(0.02)													
			2002	5/22	5/22	0.033～12	(0.023)																	
			2014													47/47	16/16	0.65～150	(0.26)					
	EPN	See *O*-Ethyl *O*-4-nitorophenyl phenylphosphonothioate																						
515	1,2-Epoxybutane	106-88-7	2006	2/15	2/5	0.0026～0.0047	(0.0016)									6/9	2/3	26～160	(16)					515
	1,2-Epoxy-3-phenoxypropane	See 2,3-Epoxypropyl phenyl ether																						
516	1,2-Epoxypropane	75-56-9	1980	0/36	0/12	—	(0.2～5)	0/12	0/4	—	(0.002～0.004)													516
			1996													30/46	12/16	16～210	(16)					
			2012																					
517	2,3-Epoxy-1-propanol	556-52-5	1983	0/30	0/10	—	(2～5)	0/30	0/10	—	(0.01～0.05)													517
			2005	0/15	0/5	—	(0.0087)	2/18	1/6	0.036～0.069	(0.024)													
			2015													0/48	0/16	—	(1,000)					
			2017	0/16	0/16	—	(0.031)																	
518	2,3-Epoxypropyl methacrylate	106-91-2	1986	0/30	0/10	—	(0.3)	0/24	0/8	—	(0.04)													518
			2011													0/33	0/11	—	(59)					
519	2,3-Epoxypropyl phenyl ether	122-60-1	1984	0/24	0/8	—	(0.1～0.6)	0/24	0/8	—	(0.006～0.02)													519
520	1,2-Epoxy-3-(tolyloxy)propane	26447-14-3	2016	0/15	0/15	—	(0.24)																	520
521	Erythromycin	114-07-8	2014	6/17	6/17	0.0055～0.03	(0.0049)																	521
	Esfenvalerate	See (*S*)-*alpha*-Cyano-3-phenoxybenzyl (*S*)-2-(4-chlorophenyl)-3-methylbutyrate																						
522	17*beta*-Estradiol	50-28-2	2005	14/35	4/10	0.00015～0.0017	(0.00011)																	522
			2023	18/31	18/31	0.00013～0.015	(0.000088)																	
523	1,3,5(10)-Estratrien-3-ol-17-one	53-16-7	2005	22/38	6/11	0.0004～0.0058	(0.00011)																	523
			2016	10/15	10/15	0.00014～0.0041	(0.000046)																	
			2023	31/31	31/31	0.00013～0.20	(0.0000048)																	
	Estriol	See 16*alpha*-Hydroxyestradiol																						
	Estrone	See 1,3,5(10)-Estratrien-3-ol-17-one																						
524	Estrone-3-glucuronide	2479-90-5	2016	0/15	0/15	—	(0.00050)																	524
525	Estrone-3-sulfate	481-97-0	2016	8/15	8/15	0.00033～0.0034	(0.000068)																	525
	1,2-Ethandiol	See Ethylene glycol																						
526	1,1'-[1,2-Ethanediylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	1987	0/75	0/25	—	(0.04)	6/60	3/20	0.0032～0.366	(0.003)	Fish 0/75	Fish 0/24	Fish —	(Fish 0.002)									526
	Ethanolamine	See 2-Aminoethanol																						
527	Ethene	74-85-1	1977	1/6	1/2	0.1	(0.05 ～5)	3/6	1/2	0.0002～0.0006	(0.005)													527
528	4'-Ethoxyacetanilide (synonym: Phenacetin)	62-44-2	2006	0/15	0/5	—	(0.0006)																	528
			2007													0/27	0/9	—	(3.1)					
	4-Ethoxyaniline	See *p*-Phenetidine																						
	S-(*alpha*-(Ethoxycarbonyl)benzyl) *O*,*O*-dimethyl dithiophosphate	See Ethyl 2-[(dimethoxyphosphinothioyl)thio]-2-phenylacetate																						
529	6-Ethoxy-1,2-dihydro-2,2,4-trimethylquinoline	91-53-2	1980	0/42	0/14	—	(1～10)	0/42	0/14	—	(0.1～1.4)													529
	2-Ethoxyethanol	See Ethylene glycol monoethyl ether																						
530	2-(2-Ethoxyethoxy)ethanol	111-90-0	2015	20/20	20/20	0.11～0.48	(0.054)																	530
531	2-Ethoxyethyl acetate	111-15-9	1986	0/30	0/10	—	(0.5)	0/30	0/10	—	(0.09)													531
			1995	0/33	0/11	—	(0.05)	0/33	0/11	—	(0.0036)													
			2010													19/54	8/18	12～260	(12)					
532	2-Ethoxy-1-{[2'-(5-oxo-2,5-dihydro-1,2,4-oxadiazol-3-yl)biphenyl-4-yl]methyl}-1*H*-benzimidazole-7-carboxylic acid	147403-03-0	2018	17/18	17/18	0.00013～0.024	(0.000037)																	532

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
533	2-(4-Ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether	80844-07-1	2018	0/25	0/25	—	(0.0022)	35/43(	14/16	0.00014～0.019	(0.00014)													533
534	Ethyl acetate	141-78-6	1995													18/18	6/6	99～11,800	(2)					534
			2000													44/45	15/15	170～160,000	(40)					
			2010	0/69	0/23	—	(0.38)																	
535	Ethyl acrylate	140-88-5	1980	0/51	0/17	—	(0.3～50)	0/51	0/17	—	(0.0041～0.12)													535
			2001													3/15	1/5	0.6～1.8	(0.5)					
			2024	0/44	0/44	—	(0.0036)																	
536	Ethylamine	75-04-7	1981	0/27	0/9	—	(0.8～2)	0/27	0/9	—	(0.005～0.01)													536
			2016	1/20	1/20	0.26	(0.20)																	
537	2-Ethylamino-4-isopropylamino-6-methylthio-1,3,5-triazine (synonym: Ametrine)	834-12-8	2006	3/33	1/11	0.0041～0.0051	(0.0032)																	537
538	*N*-Ethylaniline	103-69-5	1976	2/68	1/20	0.43～0.58	(0.1～0.6)	20/68	7/20	0.002～0.038	(0.002～0.008)													538
			1990	0/54	0/18	—	(0.05)	0/63	0/21	—	(0.05)	Fish 0/54	Fish 0/18	Fish —	(Fish 0.0043)	1/36	1/12	160	(130)					
			2015	0/15	0/15	—	(0.013)																	
539	2-Ethyl-9,10-anthraquinone	84-51-5	1985	0/33	0/11	—	(0.3)	0/33	0/11	—	(0.05)													539
	2-Ethylanthraquinone	See 2-Ethyl-9,10-anthraquinone																						
540	Ethylbenzene	100-41-4	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.004)													540
			1985	0/21	0/7	—	(0.02)	3/21	1/7	0.0009～0.0027	(0.0008)													
			1986	7/133	5/46	0.03～1.1	(0.03)	28/120	15/40	0.0005～0.028	(0.0005)	Fish 43/138	Fish 16/42	Fish 0.001～0.0098	(Fish 0.001)									
			1999													45/45	15/15	89～10,000	(33)					
			2012	16/25	16/25	0.02～0.05	(0.02)																	
			2016	1/32	1/32	0.01	(0.010)					Bivalves & Fish 1/35	Bivalves & Fish 1/12	Bivalves & Fish 0.0044	(Bivalves & Fish 0.0033)									
541	Ethyl-1,1'-biphenyl	40529-66-6	1976	0/68	0/15	—	(0.6～20)	0/50	0/15	—	(0.16～2.0)	Fish 0/20	Fish 0/9	Fish —	(Fish 0.12～0.50)									541
	Ethylbiphenyl	See Ethyl-1,1'-biphenyl																						
	Ethyl bromide	See Bromoethane																						
	Ethyl cellosolve	See Ethylene glycol monoethyl ether																						
	Ethyl chloride	See Chloroethane																						
542	*S*-Ethyl (4-chloro-2-methylphenoxy) thioacetate (synonym: Phenothiol or MCPA-thioethyl)	25319-90-8	2006	0/15	0/5	—	(0.007)									0/18	0/6	—	(9)					542
	Ethyl *p*,*p*′-dichlorobenzilate	See Chlorobenzilate																						
543	Ethyl 2-[(dimethoxyphosphinothioyl) thio]-2-phenylacetate (synonym: Phenthoate or PAP)	2597-03-7	1988	0/72	0/24	—	(0.1)	0/72	0/24	—	(0.051)	Fish 0/72	Fish 0/21	Fish —	(Fish 0.003)	0/72	0/12	—	(20)					543
			2007	0/84	0/12	—	(0.022)	0/30	0/12	—	(0.00045)													
544	*O*-Ethyl *S*,*S*-diphenyl dithiophosphate (synonym: Edifenphos or EDDP)	17109-49-8	1993	0/51	0/17	—	(0.64)	0/51	0/17	—	(0.1)													544
545	*N*,*N*′- Ethylenebis(dithiocarbamamic acid) and its salts (Manganese *N*,*N*′-ethylenebis (dithiocarbamate) (synonym: Maneb), Zinc *N*,*N*′-ethylenebis (dithiocarbamate) (synonym: Zineb), Complex compound of Manganese *N*,*N*′-ethylenebis(dithiocarbamate) and Zinc *N*,*N*′-ethylenebis (dithiocarbamate) (synonym: Mancozeb or Manzeb) etc.)	111-54-6 (12427-38-2, 12122-67-7, 8018-01-7 etc.)	2000	0/15	0/5	—	(0.043)																	545
			2006	0/51	0/7	—	(0.03)					Bivalves & Fish 0/30	Bivalves & Fish 0/10	Bivalves & Fish —	(Bivalves & Fish 0.00013)									
			2019	2/22	2/22	0.00091～0.0030	(0.00076)																	
			2020					2/79	2/28	0.00045～0.00048	(0.00034)													
546	Ethylene chlorohydrin	107-07-3	1980	0/24	0/8	—	(3～5)	0/24	0/8	—	(0.02～0.20)													546
547	Ethylenediamine	107-15-3	1987	0/87	0/29	—	(0.4)	1/84	1/28	0.087	(0.078)													547
548	Ethylenediaminetetraacetic acid	60-00-4	1979	0/24	0/8	—	(10～20)	5/24	2/8	2.3～13	(0.2～2.0)													548
			1994	4/21	2/7	17.3～27	(6.2)	0/21	0/7	—	(0.14)	Fish 0/18	Fish 0/6	Fish —	(Fish 0.33)									
			2005	24/24	8/8	2.2～260	(0.033)																	
			2017	26/26	26/26	0.35～120	(0.037)																	
	Ethylene dibromide	See 1,2-Dibromoethane																						
549	Ethylene glycol	107-21-1	1977	0/6	0/2	—	(100～400)	0/6	0/2	—	(1～2.0)													549
			1986	2/24	2/8	1.3～2.0	(0.8)	0/24	0/8	—	(0.06)													
			2016	17/20	17/20	0.070～7.1	(0.045)																	
550	Ethylene glycol monoethyl ether	110-80-5	1976	0/60	0/15	—	(90～100)	0/20	0/4	—	(0.4)													550
			2000													24/38	9/13	2.3～950	(2.3)					
	Ethylene glycol monoethyl ether acetate	See Acetic acid 2-ethoxyethyl																						
	Ethylene glycol monomethyl ether acetate	See Acetic acid 2-ethoxyethyl																						
551	Ethylene grycol mono methyl ether	109-86-4	1976	0/60	0/14	—	(90～100)	0/20	0/4	—	(0.4)													551
			2000													8/43	5/15	6.7～97	(6.1)					
			2004	0/18	0/6	—	(1.9)																	
			2023	0/31	0/31	—	(0.20)																	
552	Ethyleneimine	151-56-4	2006	0/18	0/6	—	(0.004)																	552
			2007													0/18	0/6	—	(2.7)					
553	Ethylene oxide	75-21-8	1980	0/36	0/12	—	(0.2～5)	0/12	0/4	—	(0.001～0.003)													553
			1996													42/51	15/17	30～300	(25)					
			2001	0/27	0/9	—	(0.098)	0/27	0/9	—	(0.0021)	Fish 0/24	Fish 0/8	Fish —	(Fish 0.0019)									
			2016	0/15	0/15	—	(8.5)																	
554	Ethyl formate	109-94-4	1981	0/9	0/3	—	(60)	0/9	0/3	—	(0.5)													554
555	*S*-Ethyl hexahydro-1*H*-azepine-1-carbothioate (synonym: Molinate)	2212-67-1	1992	1/42	1/14	0.077	(0.02)	1/42	1/14	0.0037	(0.002)	Fish 0/42	Fish 0/14	Fish —	(Fish 0.006)	0/49	0/16	—	(10)					555
			2007	7/84	1/12	0.0051～0.0099	(0.0041)																	
556	2-Ethylhexanoic acid	149-57-5	2012													0/41	0/14	—	(390)					556
			2018	1/19	1/19	0.35	(0.16)																	
557	2-Ethyl-1-hexanol	104-76-7	1979	0/30	0/10	—	(0.002～200)	0/30	0/10	—	(0.00003～2)													557
			1995	0/33	0/11	—	(6)	0/33	0/11	—	(0.61)													
	2-Ethylhexanol	See 2-Ethyl-1-hexanol																						
558	2-Ethylhexyl acrylate	103-11-7	1980	0/51	0/17	—	(1.1～12)	0/24	0/8	—	(0.04～0.13)													558
			2024	3/44	3/44	0.04～0.21	(0.023)																	

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
559	(2-Ethylhexyl)diphenyl phosphate	1241-94-7	2017	1/21	1/21	0.0014	(0.00066)																	559
560	2-Ethylhexyl methacrylate	688-84-6	1999	0/27	0/9	—	(0.027)	1/33	1/11	0.0022	(0.00077)													560
			2020	0/25	0/25	—	(0.012)																	
561	2-Ethylhexyl-*p*-methoxycinnamate	5466-77-3	2021	13/24	13/24	0.0056～0.043	(0.0035)																	561
562	Ethyl 4-hydroxybenzoate	120-47-8	2000	0/33	0/11	—	(0.027)	1/33	1/11	3.3	(1.5)	Fish 2/28	Fish 1/10	Fish 1.9～2.2	(Fish 1.9)									562
563	*O*-Ethyl *O*-2-(isopropoxycarbonyl)phenyl *N*-isopropylphosphoramidothioate (synonym: Isofenphos)	25311-71-1	2006	0/24	0/8	—	(0.002)																	563
564	Ethyl methacrylate	97-63-2	1979	0/24	0/8	—	(0.005～1)	0/24	0/8	—	(0.00010～0.01)													564
			1999													0/18	0/6	—	(3.3)					
565	4-Ethylmorpholine	100-74-3	1979	0/33	0/11	—	(1～30)	0/33	0/11	—	(0.01～0.7)													565
566	*O*-Ethyl *O*-4-nitorophenyl phenylphosphonothioate (synonym: EPN)	2104-64-5	1986	0/39	0/13	—	(0.3)	0/39	0/13	—	(0.03)													566
			1993													0/54	0/18	—	(50)					
			2006	8/24	3/8	0.00010～0.00018	(0.00009)																	
	Ethyl *p*-oxybenzoate	See Ethyl 4-hydroxybenzoate																						
567	2-Ethylphenol	90-00-6	1983	0/33	0/11	—	(0.04～0.2)	0/33	0/11	—	(0.001～0.02)													567
568	4-Ethylphenol	123-07-9	1983	0/33	0/11	—	(0.06～0.3)	0/33	0/11	—	(0.001～0.02)													568
	o-Ethylphenol	See 2-Ethylphenol																						
569	*m*-Ethylphenol	620-17-7	1983	0/33	0/11	—	(0.06～0.3)	0/33	0/11	—	(0.001～0.02)													569
	p-Ethylphenol	See 4-Ethylphenol																						
570	5-Ethyl-5-phenyl-2,4,6(1*H*,3*H*,5*H*)-pyrimidinetrione (synonym: Phenobarbital)	50-06-6	2006	27/45	10/15	0.004～0.17	(0.004)									0/15	0/5	—	(0.9)					570
571	*N*-(1-Ethylpropyl)-2,6-dinitro-3,4-xylidine (synonym: Pendimethalin)	40487-42-1	2007	0/84	0/12	—	(0.0014)																	571
572	*S*-2-(Ethylthio)ethyl *O*,*O*-dimethyl dithiophosphate (synonym: Thiometon)	640-15-3	2008													0/12	0/4	—	(0.23)					572
	Ethylthiometon	See *O*,*O*-Diethyl *S*-[2-(ethylthio)ethyl] dithiophosphate																						
573	17*alpha*-Ethynylestradiol	57-63-6	2005	0/32	0/9	—	(0.00011)																	573
			2023	3/27	3/27	0.000059～0.00021	(0.000046)																	
	Etofenprox	See 2-(4-Ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether																						
	Fenitrothion	See *O*,*O*-Dimethyl *O*-(3-methyl-4-nitrophenyl) thiophosphate																						
	Fenobucarb	See 2-*sec*-Butylphenyl *N*-methylcarbamate																						
	Fenthion	See *O*,*O*-Dimethyl *O*-(3-methyl-4-methylthiophenyl) thiophosphate																						
	Fenvalerate	See *alpha*-Cyano-3-phenoxybenzyl 2-(4-chlorophenyl)-3-methylbutyrate																						
	Fluazinam	See 3-Chloro-*N*-(3-chloro-5-trifluoromethyl-2-pyridyl)-*alpha*,*alpha*,*alpha*-trifluoro-2,6-dinitro-p-toluidine																						
	Fluconazole	See 2-(2,4-difluorophenyl)-1,3-bis(1*H*-1,2,4-triazol-1-yl)propan-2-ol																						
	Fluoranthene	See Polycyclic aromatic hydrocarbons																						
574	Fluorene	86-73-7	1983	0/33	0/11	—	(0.03～0.4)	27/33	10/11	0.003～0.091	(0.003～0.041)													574
			1984	8/138	4/46	0.07～2.5	(0.006～1)	94/138	35/46	0.0010～0.13	(0.0001～0.088)	Fish 26/138	Fish 12/42	Fish 0.001～0.37	(Fish 0.0003～0.05)									
	Fluorescent 260	See Disodium 2,2'-vinylenebis[5-(4-morpholino-6-anilino-1,3,5-triazin-2-ylamino)benzenesulfonate]																						
	Fluorescent 351	See Disodium 2,2'-([1,1'-biphenyl]-4,4'-diyldivinylene)bis(benzenesulphonate)																						
575	Fluorine and its compounds (as Fluorine)	7782-41-4 etc.	1974	30/60	6/12	1.0～700		59/59	12/12	28.1～188		Bivalves 32/35 Fish 15/24	Bivalves 7/7 Fish 5/5	Bivalves 0.14～113 Fish 0.28～7.0										575
576	Fluorobenzene	462-06-6	1984	0/27	0/9	—	(0.01～0.04)	0/27	0/9	—	(0.00009～0.0010)													576
	Flutamide	See 2-Methyl-*N*-[4-nitro-3-(trifluoromethyl)phenyl]propanamide																						
	Fluvoxamine	See (*E*)-5-Methoxy-4'-(trifluoromethyl)valerophenone *O*-(2-aminoethyl)oxime																						
577	Formaldehyde	50-00-0	1975	0/100	0/20	—	(100,000～500,000)																	577
			1995	0/33	0/11	—	(2)																	
			2004									Fish 6/6	Fish 2/2	Fish 3.1～4.2	(Fish 0.2)									
			2016	20/20	20/20	0.42～5.7	(0.24)																	
578	Fthalide	27355-22-2	1996	0/33	0/11	—	(0.05)	0/33	0/11	—	(0.02)													578
579	Fumaric acid	110-17-8	1983	0/24	0/8	—	(1～50)	0/24	0/8	—	(0.02～0.25)													579
	2-Furaldehyde	See Furfural																						
580	Furan	110-00-9	2021													60/60	20/20	5.5～180	(0.89)					580
			2022	0/31	0/31	—	(0.038)																	
581	Furfural	98-01-1	1996	0/33	0/11	—	(0.4)									6/15	2/5	42～120	(40)					581
			2006													10/21	5/7	57～85	(40)					
582	Glutaraldehyde	111-30-8	2014													43/43	15/15	1～10	(0.89)					582
			2017	0/19	0/19	—	(0.06)																	
	Glycidyl methacrylate	See 2,3-Epoxypropyl methacrylate																						
583	Glyoxal	107-22-2	1980	20/33	7/11	1～6	(1～2)	29/33	10/11	0.06～2.8	(0.005～0.06)													583
			2014													45/45	15/15	4.1～140	(0.4)					
	Glyphosate	See *N*-(Phosphonomethyl)glycine																						
	HCB	See Hexachlorobenzene																						
	HCFC-22	See Chlorodifluoromethane																						
	HCFC-141b	See 1,1-Dichloro-1-fluoroethane																						
	HCFC-142b	See 1-Chloro-1,1-difluoroethane																						
584	Heptachlor	76-44-8	1982	0/125	0/42	—	(0.005)	14/87	8/33	0.0002～0.0037	(0.0002～0.0003)	Fish 9/110	Fish 7/34	Fish 0.001～0.01	(Fish 0.001)									584
			1986													0/73	0/12	—	(1.0)					
			2002	97/114	38/38	0.0000005～0.000025	(0.0000005)	167/189	60/63	0.0000006～0.00012	(0.0000006)	Bivalves 28/38 Fish 57/70 Birds 7/10	Bivalves 6/8 Fish 12/14 Birds 2/2	Bivalves 0.0000019～0.000015 Fish 0.0000016～0.000020 Birds 0.0000019～0.0000052	(Bivalves 0.0000014) (Fish 0.0000014) (Birds 0.0000014)	102/102	34/34	0.00020～0.22	(0.00004)					
			2003	36/36	36/36	0.0000010～0.000007	(0.0000005)	138/186	53/62	0.0000010～0.00016	(0.0000010)	Bivalves 16/30 Fish 29/70 Birds 0/10	Bivalves 4/6 Fish 8/14 Birds 0/2	Bivalves 0.0000023～0.000014 Fish 0.0000023～0.000011 Birds —	(Bivalves 0.0000022) (Fish 0.0000022) (Birds 0.0000022)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.0011～0.24 C.S. 0.00039～0.065	(W.S. 0.000085) (C.S. 0.000085)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2004	9/38	9/38	0.000002～0.000029	(0.000002)	134/189	53/63	0.0000009～ 0.00017	(0.0000009)	Bivalves 23/31 Fish 50/70 Birds 1/10	Bivalves 6/7 Fish 11/14 Birds 1/2	Bivalves 0.0000015～ 0.000016 Fish 0.0000014～ 0.00046 Birds 0.0000015	(Bivalves 0.0000014) (Fish 0.0000014) (Birds 0.0000014)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00046～ 0.20 C.S. 0.00053～ 0.10	(W.S. 0.000078) (C.S. 0.000078)					
			2005	25/47	25/47	0.000001～0.000054	(0.000001)	120/189	48/63	0.0000009～ 0.00020	(0.0000008)	Bivalves 18/31 Fish 32/80 Birds 0/10	Bivalves 6/7 Fish 8/16 Birds 0/2	Bivalves 0.0000020～ 0.000024 Fish 0.0000021～ 0.0000076 Birds －	(Bivalves 0.0000020) (Fish 0.0000020) (Birds 0.0000020)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0011～ 0.19 C.S. 0.00052～ 0.061	(W.S. 0.000054) (C.S. 0.000054)					
			2006	5/48	5/48	0.00000036～ 0.000006	(0.000002)	190/192	64/64	0.0000006～ 0.00023	(0.0000006)	Bivalves 23/31 Fish 36/80 Birds 0/10	Bivalves 6/7 Fish 8/16 Birds 0/2	Bivalves 0.000002～ 0.000020 Fish 0.000002～ 0.000008 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00088～ 0.16 C.S. 0.00032～ 0.056	(W.S. 0.00004) (C.S. 0.00004)					
			2007	12/48	12/48	0.0000008～ 0.0000052	(0.0000008)	143/192	57/64	0.0000007～ 0.00011	(0.0000007)	Bivalves 20/31 Fish 28/80 Birds 0/10	Bivalves 6/7 Fish 6/16 Birds 0/2	Bivalves 0.000002～ 0.000012 Fish 0.000002～ 0.000007 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0011～ 0.32 C.S. 0.00042～ 0.074	(W.S. 0.00003) (C.S. 0.00003)					
			2008	19/48	19/48	0.00000097～ 0.0000046	(0.0000008)	59/192	27/64	0.000001～ 0.000085	(0.000001)	Bivalves 13/31 Fish 25/85 Birds 0/10	Bivalves 5/7 Fish 7/17 Birds 0/2	Bivalves 0.000003～ 0.000009 Fish 0.000002～ 0.000009 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00092～ 0.19 C.S. 0.00051～ 0.060	(W.S. 0.00002) (C.S. 0.00002)					
			2009	20/49	20/49	0.0000012～0.000017	(0.0000003)	144/192	59/64	0.0000004～ 0.000065	(0.0000004)	Bivalves 14/31 Fish 30/90 Birds 0/10	Bivalves 4/7 Fish 11/18 Birds 0/2	Bivalves 0.000002～ 0.00012 Fish 0.000002～ 0.000008 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00048～ 0.11 C.S. 0.00015～ 0.048	(W.S. 0.00001) (C.S. 0.00001)					
			2010	4/49	4/49	0.00000066～ 0.000043	(0.0000007)	51/64	51/64	0.0000004～ 0.000035	(0.0000004)	Bivalves 5/6 Fish 12/18 Birds 1/2	Bivalves 5/6 Fish 12/18 Birds 1/2	Bivalves 0.000001～ 0.000078 Fish 0.000001～ 0.000005 Birds 0.000001	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00069～ 0.16 C.S. 0.00022～ 0.053	(W.S. 0.00004) (C.S. 0.00004)					
			2011	6/49	6/49	0.00000025～ 0.000022	(0.0000005)	40/64	40/64	0.0000008～ 0.000048	(0.0000007)	Bivalves 3/4 Fish 13/18 Birds 0/1	Bivalves 3/4 Fish 13/18 Birds 0/1	Bivalves 0.000003～ 0.000051 Fish 0.000001～ 0.000007 Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.00073～ 0.11 C.S. 0.00013～ 0.056	(W.S. 0.000099) (C.S. 0.000099)					
			2012									Bivalves 4/5 Fish 10/19 Birds 0/2	Bivalves 4/5 Fish 10/19 Birds 0/2	Bivalves 0.000002～ 0.000013 Fish 0.000001～ 0.000005 Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 35/36	W.S. 36/36 C.S. 35/36	W.S. 0.00046～ 0.058 C.S. 0.00022～ 0.02	(W.S. 0.00014) (C.S. 0.00014)					
			2013									Bivalves 4/5 Fish 9/19 Birds 0/2	Bivalves 4/5 Fish 9/19 Birds 0/2	Bivalves 0.000001～ 0.000019 Fish 0.000001～ 0.000012 Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00046～ 0.043 C.S. 0.0001～ 0.022	(W.S. 0.00005) (C.S. 0.00005)					
			2014	28/48	28/48	0.0000002～ 0.0000015	(0.0000002)	38/63	38/63	0.0000005～ 0.000049	(0.0000005)													
			2015									Bivalves 1/3 Fish 9/19 Birds 0/1	Bivalves 1/3 Fish 9/19 Birds 0/1	Bivalves 0.0000017 Fish 0.0000010～ 0.0000092 Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	35/35	35/35	0.00043～0.049	(0.00006)					
			2016									Bivalves 1/3 Fish 8/19 Birds 0/2	Bivalves 1/3 Fish 8/19 Birds 0/2	Bivalves 0.0000014 Fish 0.0000009～ 0.0000055 Birds －	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	37/37	37/37	0.00018～0.12	(0.00008)					
			2017	2/47	2/47	0.000001～0.000006	(0.000001)	53/62	53/62	0.0000003～ 0.000040	(0.0000003)													
			2020	5/46	5/46	0.000001～0.000002	(0.000001)	43/58	43/58	0.0000002～ 0.000052	(0.0000002)	Bivalves 1/3 Fish 6/18 Birds 0/1	Bivalves 1/3 Fish 6/18 Birds 0/1	Bivalves 0.000002]Fish 0.000001～ 0.000006 Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00069～0.035	(0.00004)					
585	Heptachlor epoxide	1024-57-3	1982	0/126	0/42	－	(0.005)	3/126	2/42	0.0002～0.0006	(0.0002～0.001)	Fish 28/123	Fish 15/36	Fish 0.001～0.006	(Fish 0.001)									585
			1986													0/73	0/12	－	(0.5)					
			1996	0/33	0/11	－	(0.05)	0/33	0/11	－	(0.021)	Fish 0/32	Fish 0/11	Fish －	(Fish 0.005)									
585-1	*cis* -Heptachlor epoxide	1024-57-3	2003	36/36	36/36	0.0000012～0.00017	(0.0000002)	153/186	55/62	0.0000010～ 0.00016	(0.000001)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000097～ 0.00088 Fish 0.0000070～ 0.00032 Birds 0.00037～0.00077	(Bivalves 0.0000023) (Fish 0.0000023) (Birds 0.0000023)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.00045～ 0.028 C.S. 0.00049～ 0.0066	(W.S. 0.0000048) (C.S. 0.0000048)					585-1
			2004	38/38	38/38	0.000002～0.000077	(0.0000004)	136/189	52/63	0.0000020～ 0.00023	(0.000002)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.0000098～ 0.00084 Fish 0.0000033～ 0.00062 Birds 0.00019～0.00035	(Bivalves 0.0000033) (Fish 0.0000033) (Birds 0.0000033)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00065～ 0.0097 C.S. 0.00044～ 0.0070	(W.S. 0.000017) (C.S. 0.000017)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2005	47/47	47/47	0.0000010～0.000059	(0.0000002)	119/189	49/63	0.000002～0.00014	(0.000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000074～0.00059 Fish 0.0000049～0.00039 Birds 0.00025～0.00069	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00010～0.011 C.S. 0.00043～0.0029	(W.S. 0.000044) (C.S. 0.000044)					
			2006	48/48	48/48	0.0000011～0.000047	(0.0000007)	157/192	58/64	0.0000010～0.00021	(0.0000010)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000008～0.0011 Fish 0.000004～0.00027 Birds 0.00024～0.00065	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 36/37	W.S. 37/37 C.S. 36/37	W.S. 0.00013～0.0067 C.S. 0.00007～0.0032	(W.S. 0.00004) (C.S. 0.00004)					
			2007	48/48	48/48	0.0000009～0.00012	(0.0000004)	141/192	53/64	0.000001～0.00027	(0.000001)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000008～0.0011 Fish 0.000004～0.00039 Birds 0.00025～0.00035	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00054～0.013 C.S. 0.00041～0.0030	(W.S. 0.00001) (C.S. 0.00001)					
			2008	46/48	46/48	0.0000009～0.000037	(0.0000002)	130/192	51/64	0.000001～0.00018	(0.000001)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000008～0.00051 Fish 0.000003～0.00035 Birds 0.00018～0.00056	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00053～0.0099 C.S. 0.00037～0.0030	(W.S. 0.000008) (C.S. 0.000008)					
			2009	49/49	49/49	0.0000008～0.000072	(0.0000002)	176/192	63/64	0.0000003～0.00029	(0.0000003)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000010～0.00038 Fish 0.000004～0.00031 Birds 0.00016～0.00039	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00037～0.016 C.S. 0.00042～0.0038	(W.S. 0.00001) (C.S. 0.00001)					
			2010	49/49	49/49	0.0000007～0.00071	(0.0000002)	62/64	62/64	0.0000003～0.00030	(0.0000003)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.0000090～0.0018 Fish 0.0000050～0.00023 Birds 0.00024～0.00036	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00038～0.010 C.S. 0.00033～0.0043	(W.S. 0.00001) (C.S. 0.00001)					
			2011	49/49	49/49	0.0000007～0.00016	(0.0000003)	63/64	63/64	0.0000002～0.00016	(0.0000002)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.0000039～0.00032 Fish 0.0000032～0.00054 Birds 0.00041	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.00029～0.006 C.S. 0.00035～0.0028	(W.S. 0.00001) (C.S. 0.00001)					
			2012									Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000062～0.00018 Fish 0.0000069～0.00012 Birds 0.00015～0.00017	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00037～0.0063 C.S. 0.0003～0.0019	(W.S. 0.00002) (C.S. 0.00002)					
			2013									Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000044～0.00011 Fish 0.0000073～0.00019 Birds 0.00016～0.00056	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00043～0.0077 C.S. 0.00032～0.0014	(W.S. 0.00001) (C.S. 0.00001)					
			2014	48/48	48/48	0.0000007～0.000056	(0.0000002)	59/63	59/63	0.0000002～0.00031	(0.0000002)													
			2015									Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.0000072～0.000091 Fish 0.0000032～0.00019 Birds 0.000020	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	35/35	35/35	0.0004～0.0047	(0.0002)					
			2016									Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000094～0.000075 Fish 0.0000036～0.00013 Birds 0.000031～0.00027	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	37/37	37/37	0.00030～0.0091	(0.00005)					
			2017	46/47	46/47	0.0000006～0.000083	(0.0000006)	51/62	51/62	0.0000005～0.00015	(0.0000005)													
			2020	44/46	44/46	0.0000010～0.000036	(0.0000009)	40/58	40/58	0.0000007～0.00011	(0.0000007)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.000005～0.000096 Fish 0.000002～0.00032 Birds 0.00027	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00023～0.0029	(0.00004)					
585-2	*trans* -Heptachlor epoxide	1024-57-3	2003	4/36	4/36	0.0000005～0.000002	(0.0000004)	0/186	0/62	—	(0.000003)	Bivalves 5/30 Fish 0/70 Birds 0/10	Bivalves 1/6 Fish 0/14 Birds 0/2	Bivalves 0.000023～0.000048 Fish — Birds —	(Bivalves 0.0000044) (Fish 0.0000044) (Birds 0.0000044)	W.S. 18/35 C.S. 3/34	W.S. 18/35 C.S. 3/34	W.S. 0.000038～0.00030 C.S. 0.000034～0.000094	(W.S. 0.000033) (C.S. 0.000033)					585-2
			2004	0/38	0/38	—	(0.0000003)	1/189	1/63	0.0000025	(0.000002)	Bivalves 9/31 Fish 2/70 Birds 0/10	Bivalves 2/7 Fish 2/14 Birds 0/2	Bivalves 0.0000058～0.000055 Fish 0.0000043～0.000010 Birds —	(Bivalves 0.0000040) (Fish 0.0000040) (Birds 0.0000040)	W.S. 4/37 C.S. 0/37	W.S. 4/37 C.S. 0/37	W.S. 0.00021～0.00038 C.S. —	(W.S. 0.0002) (C.S. 0.0002)					
			2005	0/47	0/47	—	(0.0000002)	0/189	0/63	—	(0.000002)	Bivalves 5/31 Fish 0/80 Birds 0/10	Bivalves 1/7 Fish 0/16 Birds 0/2	Bivalves 0.000020～0.000037 Fish — Birds —	(Bivalves 0.0000075) (Fish 0.0000075) (Birds 0.0000075)	W.S. 27/37 C.S. 3/37	W.S. 27/37 C.S. 3/37	W.S. 0.00007～0.0012 C.S. 0.00005～0.00032	(W.S. 0.00005) (C.S. 0.00005)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2006	0/48	0/48	—	(0.0000006)	2/192	2/64	0.000004～0.000019	(0.000002)	Bivalves 5/31 Fish 0/80 Birds 0/10	Bivalves 1/7 Fish 0/16 Birds 0/2	Bivalves 0.000032～0.000045 Fish — Birds —	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	W.S. 2/37 C.S. 1/37	W.S. 2/37 C.S. 1/37	W.S. 0.0007 C.S. 0.0001	(W.S. 0.0001) (C.S. 0.0001)					
			2007	2/48	2/48	0.0000009	(0.0000007)	2/192	2/64	0.000005～0.000031	(0.000004)	Bivalves 5/31 Fish 0/80 Birds 0/10	Bivalves 1/7 Fish 0/16 Birds 0/2	Bivalves 0.000029～0.000061 Fish — Birds —	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	W.S. 8/36 C.S. 1/36	W.S. 8/36 C.S. 1/36	W.S. 0.00006～0.00016 C.S. 0.00006	(W.S. 0.00006) (C.S. 0.00006)					
			2008	0/48	0/48	—	(0.0000007)	0/192	0/64	—	(0.0000007)	Bivalves 5/31 Fish 0/85 Birds 0/10	Bivalves 1/7 Fish 0/17 Birds 0/2	Bivalves 0.000023～0.000033 Fish — Birds —	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 6/37 C.S. 0/37	W.S. 6/37 C.S. 0/37	W.S. 0.00007～0.00017 C.S. —	(W.S. 0.00006) (C.S. 0.00006)					
			2009	0/49	0/49	—	(0.0000003)	0/192	0/64	—	(0.0000006)	Bivalves 13/31 Fish 0/90 Birds 0/10	Bivalves 3/7 Fish 0/18 Birds 0/2	Bivalves 0.000003～0.000024 Fish — Birds —	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 10/37 C.S. 1/37	W.S. 10/37 C.S. 1/37	W.S. 0.00005～0.00018 C.S. 0.00006～0.00006	(W.S. 0.00005) (C.S. 0.00005)					
			2010	2/49	2/49	0.0000009～0.0000080	(0.0000005)	1/64	1/64	0.000004	(0.000001)	Bivalves 3/6 Fish 0/18 Birds 0/2	Bivalves 3/6 Fish 0/18 Birds 0/2	Bivalves 0.000005～0.000024 Fish — Birds —	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 6/37 C.S. 0/37	W.S. 6/37 C.S. 0/37	W.S. 0.00006～0.00016 C.S. —	(W.S. 0.00006) (C.S. 0.00006)					
			2011	3/49	3/49	0.0000003～0.0000028	(0.0000003)	2/64	2/64	0.0000012～0.0000024	(0.0000009)	Bivalves 1/4 Fish 0/18 Birds 0/1	Bivalves 1/4 Fish 0/18 Birds 0/1	Bivalves 0.000006 Fish — Birds —	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 5/35 C.S. 0/37	W.S. 5/35 C.S. 0/37	W.S. 0.00007～0.00014 C.S. —	(W.S. 0.00005) (C.S. 0.00005)					
			2012									Bivalves 1/5 Fish 0/19 Birds 0/2	Bivalves 1/5 Fish 0/19 Birds 0/2	Bivalves 0.000004 Fish — Birds —	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 8/36 C.S. 0/36	W.S. 8/36 C.S. 0/36	W.S. 0.00005～0.00008 C.S. —	(W.S. 0.00005) (C.S. 0.00005)					
			2013									Bivalves 0/5 Fish 0/19 Birds 1/2	Bivalves 0/5 Fish 0/19 Birds 1/2	Bivalves — Fish — Birds 0.000005	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 7/36 C.S. 0/36	W.S. 7/36 C.S. 0/36	W.S. 0.00005～0.00011 C.S. —	(W.S. 0.00005) (C.S. 0.00005)					
			2014	0/48	0/48	—	(0.0000003)	1/63	1/63	0.0000036	(0.0000003)													
			2015									Bivalves 0/3 Fish 5/19 Birds 0/1	Bivalves 0/3 Fish 5/19 Birds 0/1	Bivalves — Fish 0.000004～0.000010 Birds —	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	0/35	0/35	—	(0.00001)					
			2016									Bivalves 0/3 Fish 0/19 Birds 0/2	Bivalves 0/3 Fish 0/19 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	1/37	1/37	0.0002	(0.0001)					
			2017	0/47	0/47	—	(0.0000009)	0/62	0/62	—	(0.0000008)													
			2020	0/46	0/46	—	(0.0000007)	1/58	1/58	0.0000014	(0.0000004)	Bivalves 0/3 Fish 0/18 Birds 0/1	Bivalves 0/3 Fish 0/18 Birds 0/1	Bivalves — Fish — Birds —	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	0/37	0/37	—	(0.00005)					
586	1-Heptanol	111-70-6	1979	0/27	0/9	—	(5～50)	0/27	0/9	—	(0.3～1)													586
587	Hexabromobenzene	87-82-1	1977	0/15	0/7	—	(0.04～0.5)	0/15	0/7	—	(0.01～0.17)													587
			1981	0/18	0/6	—	(0.01～0.1)	3/18	1/6	0.0022～0.0069	(0.0005～0.0025)													
			1982	0/126	0/42	—	(0.05)	3/126	1/42	0.0031～0.0043	(0.0009～0.005)	Fish 0/126	Fish 0/36	Fish —	(Fish 0.005)									
			2000	0/36	0/12	—	(0.0064)	4/33	2/11	8.4～43	(4.8)	Fish 0/33	Fish 0/11	Fish —	(Fish 3.2)	14/33	8/11	0.031～0.1	(0.03)					
			2004	0/38	0/38	—	(0.0006)	31/189	15/63	0.0009～0.034	(0.0009)	Bivalves 0/31 Fish 1/70 Birds 0/10	Bivalves 0/7 Fish 1/14 Birds 0/2	Bivalves — Fish 0.00012 Birds —	(Bivalves 0.0001) (Fish 0.0001) (Birds 0.0001)	W.S. 27/37 C.S. 12/37	W.S. 27/37 C.S. 12/37	W.S. 0.010～0.61 C.S. 0.0099～	(W.S. 0.0097) (C.S. 0.0097)					
			2007	0/48	0/48	—	(0.0021)	44/192	21/64	0.0011～0.015	(0.0011)	Bivalves 0/31 Fish 8/80 Birds 3/10	Bivalves 0/7 Fish 6/16 Birds 1/2	Bivalves — Fish 0.0001～0.0002 Birds 0.0001～0.0002	(Bivalves 0.0001) (Fish 0.0001) (Birds 0.0001)									
	Hexabromobiphenyl	See Polybrominated biphenyl (Hexabromobiphenyl)																						
588	Hexabromocyclododecanes	25637-99-4	1987	0/75	0/25	—	(0.2)	3/69	1/23	0.02～0.09	(0.02)	Fish 4/66	Fish 2/21	Fish 0.01～0.023	(Fish 0.01)									588
588-1	1,2,5,6,9,10-Hexabromo cyclododecanes	3194-55-6	2003	0/60	0/20	—	(0.087)	3/45	1/15	0.085～0.14	(0.023)													588-1
			2004									Fish 3/18	Fish 1/6	Fish 0.043～0.077	(Fish 0.0071)									
			(2011)	4/47	4/47	0.0047～0.073	(0.0022*)	64/186	27/62	0.0012～0.60	(0.0012)	Bivalves 7/10 Fish 34/51 Birds 1/3	Bivalves 3/4 Fish 13/17 Birds 1/1	Bivalves 0.0015～0.017 Fish 0.00033～0.12 Birds 0.0010	(Bivalves 0.00031*) (Fish 0.00031*) (Birds 0.00031*)									
			(2012)					39/63	39/63	0.00038～0.075	(0.00035*)	Bivalves 5/5 Fish 16/19 Birds 1/2	Bivalves 5/5 Fish 16/19 Birds 1/2	Bivalves 0.00023～0.0032 Fish 0.00010～0.010 Birds 0.0016	(Bivalves 0.00008*) (Fish 0.00008*) (Birds 0.00008*)	W.S. 31/36 C.S. 33/36	W.S. 31/36 C.S. 33/36	W.S. 0.0017～0.44 C.S. 0.0011～0.17	(W.S. 0.0008) (C.S. 0.0008)					
			(2014)	1/48	1/48	0.0019	(0.0015*)					Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 0.00024～0.00046 Fish 0.00006～0.018 Birds 0.00014～0.0019	(Bivalves 0.00005*) (Fish 0.00005*) (Birds 0.00005*)	4/36	4/36	0.0019～0.0044	(0.0020*)					
			(2015)					43/62	43/62	0.00031～0.071	(0.00029*)	Bivalves 3/3 Fish 14/19 Birds 1/1	Bivalves 3/3 Fish 14/19 Birds 1/1	Bivalves 0.00018～0.00079 Fish 0.00006～0.0033 Birds 0.00009	(Bivalves 0.00005*) (Fish 0.00005*) (Birds 0.00005*)	10/35	10/35	0.0020～0.040	(0.0018*)					
			(2016)					40/62	40/62	0.00017～0.067	(0.00017*)	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 0.00016～0.00025 Fish 0.000030～0.0012 Birds 0.00011～0.0016	(Bivalves 0.000026*) (Fish 0.000026*) (Bivalves 0.000026*)	32/37	32/37	0.0003～0.004	(0.0003*)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			(2017)									Bivalves 3/3 Fish 17/19 Birds 2/2	Bivalves 3/3 Fish 17/19 Birds 2/2	Bivalves 0.00011～0.00067 Fish 0.000038～0.0079 Birds 0.000050～0.0022	(Bivalves 0.000027*) (Fish 0.000027*) (Birds 0.000027*)	32/37	32/37	0.0004～0.0046	(0.0003*)					
			(2018)									Bivalves 3/3 Fish 14/18 Birds 2/2	Bivalves 3/3 Fish 14/18 Birds 2/2	Bivalves 0.000076～0.00031 Fish 0.000033～0.00066 Birds 0.00059～0.00061	(Bivalves 0.000025*) (Fish 0.000025*) (Birds 0.000025*)									
			(2019)									Bivalves 3/3 Fish 11/16 Birds 1/1	Bivalves 3/3 Fish 11/16 Birds 1/1	Bivalves 0.000081～0.00042 Fish 0.000048～0.0010 Birds 0.0011	(Bivalves 0.000027*) (Fish 0.000027*) (Birds 0.000027*)	26/36	26/36	0.0004～0.0057	(0.0004*)					
			(2022)	0/48	0/48	－	(0.0012*)	33/61	33/61	0.00024～0.038	(0.00024*)	Bivalves 2/3 Fish 9/18 Birds 2/2	Bivalves 2/3 Fish 9/18 Birds 2/2	Bivalves 0.00019～0.00027 Fish 0.00011～0.00048 Birds 0.00046～0.00075	(Bivalves 0.00010*) (Fish 0.00010*) (Birds 0.00010*)	31/36	31/36	0.00021～0.026	(0.00018*)					
588-1-1	*alpha* -1,2,5,6,9,10-Hexabromo cyclododecane	134237-50-6	2011	4/47	4/47	0.0019～0.0063	(0.0006)	78/186	35/62	0.00028～0.024	(0.00028)	Bivalves 10/10 Fish 41/51 Birds 1/3	Bivalves 4/4 Fish 16/17 Birds 1/1	Bivalves 0.000086～0.013 Fish 0.000071～0.069 Birds 0.00053	(Bivalves 0.00007) (Fish 0.00007) (Birds 0.00007)									588-1-1
			2012					47/63	47/63	0.00008～0.022	(0.00007)	Bivalves 5/5 Fish 18/19 Birds 1/2	Bivalves 5/5 Fish 18/19 Birds 1/2	Bivalves 0.00019～0.0025 Fish 0.00004～0.0087 Birds 0.0014	(Bivalves 0.00002) (Fish 0.00002) (Birds 0.00002)	W.S. 31/36 C.S. 35/36	W.S. 31/36 C.S. 35/36	W.S. 0.0005～0.13 C.S. 0.0004～0.063	(W.S. 0.0002) (C.S. 0.0002)					
			2014	1/48	1/48	0.0016	(0.0006)					Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.00020～0.00038 Fish 0.00001～0.015 Birds 0.00013～0.0018	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	25/36	25/36	0.0004～0.0031	(0.0004)					
			2015					47/62	47/62	0.000074～0.027	(0.000060)	Bivalves 3/3 Fish 18/19 Birds 1/1	Bivalves 3/3 Fish 18/19 Birds 1/1	Bivalves 0.00015～0.00056 Fish 0.00002～0.0030 Birds 0.00008	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	26/35	26/35	0.0003～0.030	(0.0003)					
			2016					43/62	43/62	0.000068～0.027	(0.00006)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.00011～0.00018 Fish 0.000012～0.0011 Birds 0.00010～0.0016	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)	37/37	37/37	0.0001～0.0024	(0.0001)					
			2017									Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000086～0.00043 Fish 0.000009～0.0078 Birds 0.000050～0.0022	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)	36/37	36/37	0.0001～0.0033	(0.0001)					
			2018									Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 0.000076～0.00027 Fish 0.000009～0.00053 Birds 0.00059～0.00061	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)									
			2019									Bivalves 3/3 Fish 15/16 Birds 1/1	Bivalves 3/3 Fish 15/16 Birds 1/1	Bivalves 0.000068～0.00026 Fish 0.000009～0.00098 Birds 0.0011	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)	35/36	35/36	0.0001～0.0041	(0.0001)					
			2022	0/48	0/48	－	(0.0002)	41/61	41/61	0.00007～0.0096	(0.00007)	Bivalves 3/3 Fish 14/18 Birds 2/2	Bivalves 3/3 Fish 14/18 Birds 2/2	Bivalves 0.00008～0.00025 Fish 0.00003～0.00045 Birds 0.00046～0.00075	(Bivalves 0.00002) (Fish 0.00002) (Birds 0.00002)	35/36	35/36	0.00006～0.019	(0.00006)					
588-1-2	*beta* -1,2,5,6,9,10-Hexabromo cyclododecane	134237-51-7	2011	4/47	4/47	0.0007～0.0013	(0.0005)	48/186	21/62	0.00017～0.014	(0.00017)	Bivalves 7/10 Fish 11/51 Birds 0/3	Bivalves 3/4 Fish 5/17 Birds 0/1	Bivalves 0.000068～0.00024 Fish 0.00004～0.00076 Birds －	(Bivalves 0.00004) (Fish 0.00004) (Birds 0.00004)									588-1-2
			2012					29/63	29/63	0.00007～0.0089	(0.00006)	Bivalves 4/5 Fish 8/19 Birds 0/2	Bivalves 4/5 Fish 8/19 Birds 0/2	Bivalves 0.00001～0.00009 Fish 0.00001～0.00004 Birds －	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	W.S. 30/36 C.S. 35/36	W.S. 30/36 C.S. 35/36	W.S. 0.0002～0.029 C.S. 0.0001～0.018	(W.S. 0.0001) (C.S. 0.0001)					
			2014	1/48	1/48	0.0003	(0.0002)					Bivalves 3/3 Fish 5/19 Birds 0/2	Bivalves 3/3 Fish 5/19 Birds 0/2	Bivalves 0.00001～0.00002 Fish 0.00001～0.00003 Birds －	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	8/36	8/36	0.0003～0.0008	(0.0003)					
			2015					33/62	33/62	0.000069～0.0076	(0.000060)	Bivalves 2/3 Fish 2/19 Birds 0/1	Bivalves 2/3 Fish 2/19 Birds 0/1	Bivalves 0.00001～0.00003 Fish 0.00002 Birds －	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	7/35	7/35	0.0003～0.0039	(0.0003)					
			2016					31/62	31/62	0.000053～0.0074	(0.00005)	Bivalves 2/3 Fish 3/19 Birds 0/2	Bivalves 2/3 Fish 3/19 Birds 0/2	Bivalves 0.000008～0.000009 Fish 0.000009～0.000012 Birds －	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)	21/37	21/37	0.0001～0.0007	(0.0001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2017									Bivalves 1/3 Fish 2/19 Birds 0/2	Bivalves 1/3 Fish 2/19 Birds 0/2	Bivalves 0.000036 Fish 0.000009～0.000012 Birds －	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)	33/37	33/37	0.0001～0.0008	(0.0001)					
			2018									Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)									
			2019									Bivalves 1/3 Fish 0/16 Birds 0/1	Bivalves 1/3 Fish 0/16 Birds 0/1	Bivalves 0.000022 Fish － Birds －	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)	26/36	26/36	0.00009～0.0012	(0.00008)					
			2022	0/48	0/48	－	(0.0002)	30/61	30/61	0.00004～0.0040	(0.00004)	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.00002) (Fish 0.00002) (Birds 0.00002)	19/36	19/36	0.00007～0.0041	(0.00007)					
588-1-3	*gamma* -1,2,5,6,9,10-Hexabromo cyclododecane	134237-52-8	2011	5/47	5/47	0.0007～0.065	(0.0005)	89/186	36/62	0.00027～0.57	(0.00026)	Bivalves 8/10 Fish 26/51 Birds 1/3	Bivalves 4/4 Fish 10/17 Birds 1/1	Bivalves 0.000081～0.0033 Fish 0.000086～0.050 Birds 0.00046	(Bivalves 0.00008) (Fish 0.00008) (Birds 0.00008)									588-1-3
			2012					52/63	52/63	0.00006～0.055	(0.00006)	Bivalves 5/5 Fish 16/19 Birds 1/2	Bivalves 5/5 Fish 16/19 Birds 1/2	Bivalves 0.00003～0.00091 Fish 0.00001～0.0016 Birds 0.00019～0.00019	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	W.S. 31/36 C.S. 35/36	W.S. 31/36 C.S. 35/36	W.S. 0.0006～0.28 C.S. 0.0002～0.084	(W.S. 0.0001) (C.S. 0.0001)					
			2014	0/48	0/48	－	(0.0003)					Bivalves 3/3 Fish 12/19 Birds 2/2	Bivalves 3/3 Fish 12/19 Birds 2/2	Bivalves 0.00003～0.00011 Fish 0.00001～0.0028 Birds 0.00001	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	4/36	4/36	0.0005～0.0012	(0.0004)					
			2015					48/62	48/62	0.000053～0.060	(0.000042)	Bivalves 3/3 Fish 10/19 Birds 1/1	Bivalves 3/3 Fish 10/19 Birds 1/1	Bivalves 0.00002～0.00020 Fish 0.00001～0.00023 Birds 0.00001	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	11/35	11/35	0.0003～0.0044	(0.0003)					
			2016					42/62	42/62	0.000064～0.050	(0.00006)	Bivalves 3/3 Fish 11/19 Birds 1/2	Bivalves 3/3 Fish 11/19 Birds 1/2	Bivalves 0.000021～0.000061 Fish 0.000012～0.00016 Birds 0.000020	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)	16/37	16/37	0.0001～0.0014	(0.0001)					
			2017									Bivalves 3/3 Fish 12/19 Birds 1/2	Bivalves 3/3 Fish 12/19 Birds 1/2	Bivalves 0.000020～0.00020 Fish 0.000012～0.00012 Birds 0.000018	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)	20/37	20/37	0.0001～0.0008	(0.0001)					
			2018									Bivalves 2/3 Fish 10/18 Birds 0/2	Bivalves 2/3 Fish 10/18 Birds 0/2	Bivalves 0.000039～0.000046 Fish 0.000010～0.00013 Birds －	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)									
			2019									Bivalves 3/3 Fish 9/16 Birds 0/1	Bivalves 3/3 Fish 9/16 Birds 0/1	Bivalves 0.000013～0.00014 Fish 0.000012～0.000062 Birds －	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)	15/36	15/36	0.0002～0.0015	(0.0002)					
			2022	0/48	0/48	－	(0.0003)	41/61	41/61	0.00003～0.033	(0.00003)	Bivalves 2/3 Fish 8/18 Birds 0/2	Bivalves 2/3 Fish 8/18 Birds 0/2	Bivalves 0.00002～0.00003 Fish 0.00002～0.00003 Birds －	(Bivalves 0.00002) (Fish 0.00002) (Birds 0.00002)	32/36	32/36	0.00005～0.0031	(0.00005)					
588-1-4	*delta* -1,2,5,6,9,10-Hexabromo cyclododecane	Unknown	2011	0/47	0/47	－	(0.0003)	11/186	6/62	0.00026～0.00080	(0.00025)	Bivalves 0/10 Fish 0/51 Birds 0/3	Bivalves 0/4 Fish 0/17 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.00006) (Fish 0.00006) (Birds 0.00006)									588-1-4
			2012					5/63	5/63	0.00010～0.00068	(0.00010)	Bivalves 0/5 Fish 0/19 Birds 0/2	Bivalves 0/5 Fish 0/19 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.00002) (Fish 0.00002) (Birds 0.00002)	W.S. 1/36 C.S. 1/36	W.S. 1/36 C.S. 1/36	W.S. 0.0008 C.S. 0.0011	(W.S. 0.0002) (C.S. 0.0002)					
			2014	0/48	0/48	－	(0.0002)					Bivalves 0/3 Fish 0/19 Birds 0/2	Bivalves 0/3 Fish 0/19 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	0/36	0/36	－	(0.0006)					
			2015					0/62	0/62	－	(0.000070)	Bivalves 0/3 Fish 1/19 Birds 0/1	Bivalves 0/3 Fish 1/19 Birds 0/1	Bivalves － Fish 0.00002 Birds －	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	1/35	1/35	0.0019	(0.0006)					
			2022	0/48	0/48	－	(0.0003)	1/61	1/61	0.00007	(0.00005)	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.00002) (Fish 0.00002) (Birds 0.00002)									
588-1-5	*epsilon* -1,2,5,6,9,10-Hexabromo cyclododecane	Unknown	2011	0/47	0/47	－	(0.0003)	2/186	1/62	0.00023～0.00026	(0.00021)	Bivalves 0/10 Fish 0/51 Birds 0/3	Bivalves 0/4 Fish 0/17 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.00006) (Fish 0.00006) (Birds 0.00006)									588-1-5
			2012					7/63	7/63	0.00006～0.00031	(0.00006)	Bivalves 1/5 Fish 3/19 Birds 0/2	Bivalves 1/5 Fish 3/19 Birds 0/2	Bivalves 0.00003 Fish 0.00003 Birds －	(Bivalves 0.00002) (Fish 0.00002) (Birds 0.00002)	W.S. 0/36 C.S. 1/36	W.S. 0/36 C.S. 1/36	W.S. － C.S. 0.0005	(W.S. 0.0002) (C.S. 0.0002)					
			2014	0/48	0/48	－	(0.0002)					Bivalves 1/3 Fish 3/19 Birds 0/2	Bivalves 1/3 Fish 3/19 Birds 0/2	Bivalves 0.00002 Fish 0.00001～0.00008 Birds －	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	0/36	0/36	－	(0.0003)					
			2015					0/62	0/62	－	(0.000051)	Bivalves 1/3 Fish 1/19 Birds 0/1	Bivalves 1/3 Fish 1/19 Birds 0/1	Bivalves 0.00001 Fish 0.00001 Birds －	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	0/35	0/35	－	(0.0003)					
			2022	0/48	0/48	－	(0.0002)	0/61	0/61	－	(0.00005)	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.00002) (Fish 0.00002) (Birds 0.00002)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
589	Hexachlorobenzene (synonym:HCB)	118-74-1	1974	0/60	0/12	—	(0.1)	0/60	0/12	—	(0.01)	Fish 4/60	Fish 3/12	Fish 0.005～0.007	(Fish 0.005)									589
			1975	0/390	0/78	—	(0.001～0.01)	37/399	11/80	0.0002～0.12	(0.0001～0.005)	Fish 110/369	Fish 32/74	Fish 0.0001～0.028	(Fish 0.0001～0.005)									
			1978	6/77	2/26	0.0016～0.0045	(0.0016)	63/76	24/26	0.00011 ～0.48	(0.00011)	Fish 73/75	Fish 20/20	Fish 0.00020～0.013	(Fish 0.00016)									
												Bivalves 0/10 Fish 30/30 Birds 0/7	Bivalves 0/2 Fish 6/6 Birds 0/1	Bivalves — Fish 0.001～0.007 Birds —	(Bivalves 0.001) (Birds 0.005)									
			1979									Bivalves 0/15 Fish 37/40 Birds 4/6	Bivalves 0/3 Fish 8/8 Birds 1/1	Bivalves — Fish 0.001～0.008 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1980									Bivalves 0/15 Fish 29/50 Birds 4/8	Bivalves 0/3 Fish 7/10 Birds 1/1	Bivalves — Fish 0.001～0.007 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1981									Bivalves 0/20 Fish 21/46 Birds 6/7	Bivalves 0/4 Fish 7/9 Birds 1/1	Bivalves — Fish 0.001～0.007 Birds 0.001～0.003	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 0/20 Fish 24/50 Birds 4/9	Bivalves 0/4 Fish 8/10 Birds 1/2	Bivalves — Fish 0.001～0.007 Birds 0.015～0.024	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1983									Bivalves 0/20 Fish 7/50 Birds 5/10	Bivalves 0/4 Fish 2/10 Birds 1/2	Bivalves — Fish 0.001 Birds 0.023～0.030	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 0/20 Fish 13/60 Birds 5/10	Bivalves 0/4 Fish 4/12 Birds 1/2	Bivalves — Fish 0.001～0.002 Birds 0.010～0.014	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 0/20 Fish 8/60 Birds 5/10	Bivalves 0/4 Fish 4/12 Birds 1/2	Bivalves — Fish 0.001～0.002 Birds 0.009～0.014	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986		0/18	—			3/18	0.0002～0.0006		Bivalves 0/20 Fish 13/60 Birds 5/10	Bivalves 0/4 Fish 4/12 Birds 1/2	Bivalves — Fish 0.001～0.002 Birds 0.011～0.014	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987		1/20	0.0054			8/20	0.00010～0.016		Bivalves 0/20 Fish 7/65 Birds 5/10	Bivalves 0/4 Fish 2/13 Birds 1/2	Bivalves — Fish 0.001～0.002 Birds 0.009～0.020	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988		1/22	0.0033			5/22	0.000083～0.0060		Bivalves 0/20 Fish 8/65 Birds 5/10	Bivalves 0/4 Fish 4/13 Birds 1/2	Bivalves — Fish 0.001～0.002 Birds 0.008～0.016	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989		1/17	0.0005			5/17	0.00007～0.0092		Bivalves 0/21 Fish 19/65 Birds 5/10	Bivalves 0/5 Fish 4/13 Birds 1/2	Bivalves — Fish 0.001～0.009 Birds 0.010～0.012	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990		0/18	—			3/18	0.0010～0.0111		Bivalves 0/25 Fish 14/65 Birds 5/10	Bivalves 0/5 Fish 3/13 Birds 1/2	Bivalves — Fish 0.001～0.004 Birds 0.008～0.011	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991		0/18	—			8/18	0.000047～0.014		Bivalves 0/30 Fish 13/65 Birds 5/10	Bivalves 0/6 Fish 4/13 Birds 1/2	Bivalves — Fish 0.001～0.004 Birds 0.005～0.008	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992		0/18	—			10/18	0.000051～0.012		Bivalves 0/30 Fish 7/70 Birds 5/10	Bivalves 0/6 Fish 2/14 Birds 1/2	Bivalves — Fish 0.001 Birds 0.005～0.006	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993		0/19	—			12/19	0.000023～0.002		Bivalves 0/30 Fish 10/70 Birds 5/10	Bivalves 0/6 Fish 2/14 Birds 1/2	Bivalves — Fish 0.001～0.003 Birds 0.007～0.059	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994													8/24	4/8	1.1～3.5	(1)					
					0/17	—			10/17	0.000034～0.012		Bivalves 0/30 Fish 9/70 Birds 0/5	Bivalves 0/6 Fish 3/14 Birds 0/1	Bivalves — Fish 0.001～0.003 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995		0/18	—			7/18	0.000041～0.010		Bivalves 0/30 Fish 9/70 Birds 6/10	Bivalves 0/6 Fish 4/14 Birds 2/2	Bivalves — Fish 0.001 Birds 0.001～0.012	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996		0/18	—			4/18	0.000062～0.0069		Bivalves 0/30 Fish 5/70 Birds 5/10	Bivalves 0/6 Fish 1/14 Birds 1/2	Bivalves — Fish 0.001 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1997		0/18	—			3/18	0.000040～0.0075														
			1998		0/18	—			3/18	0.00083～0.0078		Bivalves 0/30 Fish 8/70 Birds 3/10	Bivalves 0/6 Fish 2/14 Birds 1/2	Bivalves — Fish 0.001 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999													39/39	13/13	0.013～1.1	(0.013)					
									5/18	0.00026～0.0041														
			2000						4/17	0.00018～0.0049		Bivalves 0/30 Fish 7/69 Birds 5/10	Bivalves 0/6 Fish 3/14 Birds 1/2	Bivalves — Fish 0.001～0.002 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001						3/20	0.00051～0.0024		Bivalves 0/30 Fish 2/72 Birds 5/10	Bivalves 0/6 Fish 2/15 Birds 1/2	Bivalves — Fish 0.001～0.002 Birds 0.002～0.006	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	114/114	38/38	0.0000098～0.0014	(0.0000002)	189/189	63/63	0.0000076～0.019	(0.0000003)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.0000024～0.00033 Fish 0.000019～0.00091 Birds 0.00056～0.0016	(Bivalves 0.00000006) (Fish 0.00000006) (Birds 0.00000006)	102/102	34/34	0.057～3.0	(0.0003)					
			2003	36/36	36/36	0.000011～0.00034	(0.000002)	186/186	62/62	0.000005～0.042	(0.000002)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.000021～0.00066 Fish 0.000028～0.0015 Birds 0.00079～0.0047	(Bivalves 0.0000075) (Fish 0.0000075) (Birds 0.0000075)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.081～0.43 C.S. 0.064～0.32	(W.S. 0.00078) (C.S. 0.00078)					
			2004	38/38	38/38	0.000011～0.00018	(0.000008)	189/189	63/63	0.000006～0.025	(0.000003)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.000014～0.000080 Fish 0.000026～0.0018 Birds 0.00041～0.0022	(Bivalves 0.0000046) (Fish 0.0000046) (Birds 0.0000046)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.047～0.43 C.S. 0.051～0.39	(W.S. 0.00037) (C.S. 0.00037)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2005	47/47	47/47	0.000006～0.00021	(0.000005)	189/189	63/63	0.000013～0.022	(0.000001)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000019～0.00045 Fish 0.000029～0.0017 Birds 0.00040～0.0025	(Bivalves 0.0000038) (Fish 0.0000038) (Birds 0.0000038)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.027～0.25 C.S. 0.044～0.18	(W.S. 0.000034) (C.S. 0.000034)					
			2006	46/48	46/48	0.000005～0.00019	(0.000005)	192/192	64/64	0.000010～0.019	(0.0000010)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000011～0.00034 Fish 0.000025～0.0014 Birds 0.00049～0.0021	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.023～0.21 C.S. 0.0082～0.17	(W.S. 0.00007) (C.S. 0.00007)					
			2007	48/48	48/48	0.000004～0.00019	(0.000003)	191/192	64/64	0.000002～0.065	(0.000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000011～0.0004 Fish 0.000017～0.0015 Birds 0.00042～0.0020	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 24/24 C.S. 22/22	W.S. 24/24 C.S. 22/22	W.S. 0.072～0.23 C.S. 0.055～0.12	(W.S. 0.00003) (C.S. 0.00003)					
			2008	48/48	48/48	0.000004～0.00048	(0.000001)	192/192	64/64	0.0000044～0.029	(0.0000008)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000013～0.00024 Fish 0.000025～0.0015 Birds 0.00024～0.0025	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.078～0.26 C.S. 0.058～0.16	(W.S. 0.00008) (C.S. 0.00008)					
			2009	49/49	49/49	0.0000024～0.00018	(0.0000002)	190/192	64/64	0.0000044～0.034	(0.0000007)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000012～0.00020 Fish 0.000029～0.03 Birds 0.0004～0.0015	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 34/34 C.S. 34/34	W.S. 34/34 C.S. 34/34	W.S. 0.078～0.21 C.S. 0.059～0.15	(W.S. 0.0002) (C.S. 0.0002)					
			2010	39/49	39/49	0.000004～0.00012	(0.000004)	64/64	64/64	0.000004～0.021	(0.000001)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000004～0.00021 Fish 0.000036～0.0017 Birds 0.00050～0.0019	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.073～0.16 C.S. 0.056～0.38	(W.S. 0.0007) (C.S. 0.0007)					
			2011	49/49	49/49	0.000003～0.00014	(0.000002)	64/64	64/64	0.000011～0.035	(0.000003)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000004～0.00092 Fish 0.000034～0.0015 Birds 0.00046	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.087～0.18 C.S. 0.075～0.16	(W.S. 0.00075) (C.S. 0.00075)					
			2012	48/48	48/48	0.0000081～0.00033	(0.0000007)	63/63	63/63	0.000003～0.012	(0.000001)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000010～0.00034 Fish 0.000033～0.0011 Birds 0.00047～0.0015	(Bivalves 0.0000028) (Fish 0.0000028) (Birds 0.0000028)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.084～0.15 C.S. 0.068～0.15	(W.S. 0.0014) (C.S. 0.0014)					
			2013	48/48	48/48	0.000004～0.00026	(0.000002)	63/63	63/63	0.0000072～0.0066	(0.0000018)	Bivalves 4/5 Fish 19/19 Birds 2/2	Bivalves 4/5 Fish 19/19 Birds 2/2	Bivalves 0.000015～0.00025 Fish 0.000036～0.0015 Birds 0.0029～0.0052	(Bivalves 0.000010) (Fish 0.000010) (Birds 0.000010)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.052～0.18 C.S. 0.073～0.18	(W.S. 0.0013) (C.S. 0.0013)					
			2014	48/48	48/48	0.0000027～0.00020	(0.0000004)	63/63	63/63	0.000004～0.0056	(0.000002)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000015～0.00010 Fish 0.000037～0.0019 Birds 0.000032～0.0056	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	36/36	36/36	0.084～0.24	(0.0005)					
			2015	48/48	48/48	0.0000042～0.00014	(0.0000006)	62/62	62/62	0.000004～0.017	(0.000001)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.000014～0.00012 Fish 0.000025～0.0017 Birds 0.00076	(Bivalves 0.0000065) (Fish 0.0000065) (Birds 0.0000065)	35/35	35/35	0.074～0.17	(0.0002)					
			2016	48/48	48/48	0.0000042～0.00013	(0.0000003)	62/62	62/62	0.000004～0.0064	(0.000001)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000017～0.00015 Fish 0.000024～0.0013 Birds 0.00055～0.0053	(Bivalves 0.0000027) (Fish 0.0000027) (Birds 0.0000027)	37/37	37/37	0.079～0.22	(0.0003)					
			2017	47/47	47/47	0.0000029～0.00018	(0.0000008)	62/62	62/62	0.000003～0.011	(0.000001)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000026～0.000099 Fish 0.000033～0.0011 Birds 0.00023～0.0049	(Bivalves 0.0000013) (Fish 0.0000013) (Birds 0.0000013)	37/37	37/37	0.073～0.55	(0.0002)					
			2018	47/47	47/47	0.0000040～0.00038	(0.0000006)	61/61	61/61	0.0000031～0.0089	(0.0000005)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000014～0.000028 Fish 0.000025～0.00090 Birds 0.0026～0.0031	(Bivalves 0.0000011) (Fish 0.0000011) (Birds 0.0000011)	37/37	37/37	0.072～0.14	(0.0002)					
			2019	46/48	46/48	0.000003～0.00063	(0.000003)	61/61	61/61	0.0000045～0.010	(0.0000004)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000012～0.000065 Fish 0.000012～0.0011 Birds 0.0032	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.067～0.13	(0.00006)					
			2020	46/46	46/46	0.0000027～0.00060	(0.0000008)	58/58	58/58	0.0000039～0.0098	(0.0000005)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/1 Birds 1/1	Bivalves 0.000002～0.000030 Fish 0.000015～0.0011 Birds 0.0029	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.063～0.37	(0.0001)					
			2021	47/47	47/47	0.0000016～0.00018	(0.0000004)	60/60	60/60	0.0000025～0.012	(0.0000005)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000002～0.000026 Fish 0.000024～0.00095 Birds 0.0028～0.0042	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	35/35	35/35	0.066～0.14	(0.00004)					
			2022	48/48	48/48	0.0000016～0.000070	(0.0000003)	61/61	61/61	0.0000016～0.0048	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000076～0.0000091 Fish 0.000016～0.00071 Birds 0.0018～0.0023	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	36/36	36/36	0.071～0.14	(0.00004)					
			2023	47/47	47/47	0.0000014～0.00019	(0.0000003)	60/60	60/60	0.0000024～0.0052	(0.0000004)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.0000093～0.000021 Fish 0.000021～0.00056 Birds 0.0021～0.0042	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	35/35	35/35	0.07～0.14	(0.0001)					
			2024	47/47	47/47	0.000003～0.000052	(0.000001)	60/60	60/60	0.0000019～0.0080	(0.0000007)	Bivalves 2/3 Fish 16/16 Birds 2/2	Bivalves 2/3 Fish 16/16 Birds 2/2	Bivalves 0.0000095～0.000020 Fish 0.0000067～0.00058 Birds 0.0030～0.0044	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	35/35	35/35	0.067～0.12	(0.00004)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
590	1,4,5,6,7,7-Hexachlorobicyclo [2,2,1]-5-heptene-2,3-dicarboxylic acid (synonym: Chlorendic acid)	115-28-6	2006	0/15	0/5	—	(0.025)									0/15	0/5	—	(6)					590
591	Hexachlorobuta-1,3-diene	87-68-3	1981	0/18	0/6	—	(0.02)	0/18	0/6	—	(0.002～2)													591
			2007	0/12	0/4	—	(0.000096)	0/3	0/1	—	(0.0000092)													
				0/48	0/48	—	(0.00034)	22/192	10/64	0.0000085～0.0013	(0.0000085)	Bivalves 0/31 Fish 0/80 Birds 0/10	Bivalves 0/7 Fish 0/16 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.000012) (Fish 0.000012) (Birds 0.000012)								
			2013	1/48	1/48	0.000043	(0.000037)	40/189	20/63	0.0000044～0.0016	(0.0000038)	Bivalves 3/13 Fish 7/57 Birds 0/6	Bivalves 1/5 Fish 4/19 Birds 0/2	Bivalves 0.0000043～0.0000071 Fish 0.000004～0.000059 Birds —	(Bivalves 0.0000037) (Fish 0.0000037) (Birds 0.0000037)								
			2015													102/102	34/34	0.045～3.5	(0.011)					
			2016													111/111	37/37	0.51～4.3	(0.02)					
			2017													37/37	37/37	1.1～23	(0.02)					
			2018													110/110	37/37	0.15～8.5	(0.01)					
			2019													104/108	35/36	0.02～5.8	(0.02)					
			2020	1/46	1/46	0.00049	(0.00004)	2/58	2/58	0.000045～0.00018	(0.00001)	Bivalves 1/3 Fish 8/18 Birds 0/1	Bivalves 1/3 Fish 8/18 Birds 0/1	Bivalves 0.000007 Fish 0.000005～0.000019 Birds —	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	110/110	37/37	1.5～9.8	(0.01)					
			2021	0/47	0/47	—	(0.00007)	3/60	3/60	0.00002～0.00017	(0.00001)	Bivalves 1/3 Fish 14/18 Birds 0/2	Bivalves 1/3 Fish 14/18 Birds 0/2	Bivalves 0.000005 Fish 0.000005～0.000024 Birds —	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	105/105	35/35	1.4～11	(0.02)					
			2022	0/48	0/48	—	(0.00004)	4/61	4/61	0.00003～0.00037	(0.00001)	Bivalves 0/3 Fish 9/18 Birds 0/2	Bivalves 0/3 Fish 9/18 Birds 0/2	Bivalves — Fish 0.000006～0.00029 Birds —	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	108/108	36/36	1.7～5.0	(0.02)					
			2023													105/105	35/35	2.1～6.5	(0.02)					
			2024													105/105	35/35	1.2～3.5	(0.02)					
592	*alpha* -Hexachlorocyclohexane (*alpha* -HCH)*****	319-84-6	1974	3/60	1/12	0.1	(0.1)	5/60	2/12	0.01	(0.01)	Fish 16/60	Fish 7/12	Fish 0.005～0.015	(Fish 0.005)									592
			1978									Bivalves 10/10 Fish 30/30 Birds 6/7	Bivalves 2/2 Fish 6/6 Birds 1/1	Bivalves 0.002～0.005 Fish 0.001～0.021 Birds 0.001～0.005	(Bivalves 0.001) (Birds 0.001)									
			1979									Bivalves 10/15 Fish 34/40 Birds 6/6	Bivalves 2/3 Fish 7/8 Birds 1/1	Bivalves 0.001～0.033 Fish 0.001～0.024 Birds 0.002～0.005	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1980									Bivalves 10/15 Fish 36/50 Birds 8/8	Bivalves 2/3 Fish 8/10 Birds 1/1	Bivalves 0.002～0.045 Fish 0.002～0.014 Birds 0.003～0.019	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1981									Bivalves 20/20 Fish 36/46 Birds 7/7	Bivalves 4/4 Fish 7/9 Birds 1/1	Bivalves 0.002～0.019 Fish 0.001～0.023 Birds 0.003～0.011	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 20/20 Fish 44/50 Birds 5/9	Bivalves 4/4 Fish 9/10 Birds 1/2	Bivalves 0.001～0.016 Fish 0.002～0.017 Birds 0.003～0.005	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1983									Bivalves 20/20 Fish 44/50 Birds 5/10	Bivalves 4/4 Fish 9/10 Birds 1/2	Bivalves 0.001～0.034 Fish 0.002～0.012 Birds 0.005～0.009	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 20/20 Fish 42/60 Birds 5/10	Bivalves 4/4 Fish 9/12 Birds 1/2	Bivalves 0.001～0.014 Fish 0.001～0.012 Birds 0.002～0.037	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 7/20 Fish 40/60 Birds 5/10	Bivalves 3/4 Fish 9/12 Birds 1/2	Bivalves 0.001～0.009 Fish 0.001～0.005 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986		0/18	—			4/18	0.0001～0.0007		Bivalves 10/20 Fish 33/60 Birds 4/10	Bivalves 2/4 Fish 8/12 Birds 1/2	Bivalves 0.001～0.006 Fish 0.001～0.005 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987		1/20	0.0018			6/20	0.00004～0.0035		Bivalves 11/20 Fish 32/65 Birds 2/10	Bivalves 3/4 Fish 8/13 Birds 1/2	Bivalves 0.001～0.006 Fish 0.001～0.005 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988		1/22	0.0019			1/22	0.00021		Bivalves 5/20 Fish 22/65 Birds 3/10	Bivalves 1/4 Fish 7/13 Birds 1/2	Bivalves 0.001 Fish 0.001～0.003 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989		0/17	—			0/17	—		Bivalves 6/21 Fish 14/65 Birds 0/10	Bivalves 3/5 Fish 5/13 Birds 0/2	Bivalves 0.001～0.006 Fish 0.001～0.003 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990		0/18	—			1/18	0.0025		Bivalves 10/25 Fish 18/65 Birds 0/10	Bivalves 2/5 Fish 5/13 Birds 0/2	Bivalves 0.001～0.002 Fish 0.001～0.002 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991		0/18	—			1/18	0.0020		Bivalves 6/30 Fish 14/65 Birds 2/10	Bivalves 2/6 Fish 4/13 Birds 1/2	Bivalves 0.001～0.002 Fish 0.001～0.002 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992		0/18	—			2/18	0.00019～0.00072		Bivalves 0/30 Fish 16/70 Birds 0/10	Bivalves 0/6 Fish 5/14 Birds 0/2	Bivalves — Fish 0.001～0.006 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993		1/19	0.0053			3/19	0.000062～0.002		Bivalves 1/30 Fish 10/70 Birds 0/10	Bivalves 1/6 Fish 5/14 Birds 0/2	Bivalves 0.001 Fish 0.001～0.002 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1994		0/17	—			3/17	0.000033～0.0020		Bivalves 0/30 Fish 6/70 Birds 3/5	Bivalves 0/6 Fish 2/14 Birds 1/1	Bivalves — Fish 0.001～0.002 Birds 0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995		0/18	—			1/18	0.0017		Bivalves 0/30 Fish 8/70 Birds 2/10	Bivalves 0/6 Fish 2/14 Birds 1/2	Bivalves — Fish 0.001～0.002 Birds 0.002～0.003	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996		0/18	—			2/18	0.00020～0.0050		Bivalves 0/30 Fish 4/70 Birds 2/10	Bivalves 0/6 Fish 1/14 Birds 1/2	Bivalves — Fish 0.001 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1997		0/18	—			1/18	0.00042														
			1998		0/18	—			1/18	0.00038		Bivalves 3/30 Fish 8/70 Birds 0/10	Bivalves 1/6 Fish 2/14 Birds 0/2	Bivalves 0.001 Fish 0.001～0.002 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999						0/18	—														
			2000						1/17	0.00015		Bivalves 0/30 Fish 1/69 Birds 0/10	Bivalves 0/6 Fish 1/14 Birds 0/2	Bivalves — Fish 0.001 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001						1/20	0.00021		Bivalves 0/30 Fish 5/72 Birds 0/10	Bivalves 0/6 Fish 2/15 Birds 0/2	Bivalves — Fish 0.001～0.002 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	114/114	38/38	0.0000019～0.0065	(0.0000003)	189/189	63/63	0.0000020～ 0.0082	(0.0000004)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000012～ 0.0011 Fish 0.0000019～ 0.00059 Birds 0.000093～ 0.00036	(Bivalves 0.0000014) (Fish 0.0000014) (Birds 0.0000014)									
			2003	36/36	36/36	0.000013～0.00097	(0.0000009)	186/186	62/62	0.000002～0.0095	(0.0000005)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000099～ 0.00061 Fish 0.0000026～ 0.00059 Birds 0.000030～ 0.00023	(Bivalves 0.00000061) (Fish 0.00000061) (Birds 0.00000061)	W.S. — C.S. —	W.S. — C.S. —	W.S. — C.S. —	(W.S. —) (C.S. —)					
			2004	38/38	38/38	0.000013～0.0057	(0.000002)	189/189	63/63	0.0000015～ 0.0057	(0.0000006)	Bivalves 31/31 Fish 63/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.000012～ 0.0018 Fish 0.0000044～0.0029 Birds 0.000058～0.0016	(Bivalves 0.0000043) (Fish 0.0000043) (Birds 0.0000043)	W.S. — C.S. —	W.S. — C.S. —	W.S. — C.S. —	(W.S. —) (C.S. —)					
			2005	47/47	47/47	0.000016～0.00066	(0.000001)	189/189	63/63	0.0000034～ 0.0070	(0.0000006)	Bivalves 31/31 Fish 75/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000071～ 0.0011 Fish 0.0000040～0.0010 Birds 0.000067～ 0.000085	(Bivalves 0.0000036) (Fish 0.0000036) (Birds 0.0000036)	W.S. — C.S. —	W.S. — C.S. —	W.S. — C.S. —	(W.S. —) (C.S. —)					
			2006	48/48	48/48	0.000025～0.0021	(0.000001)	192/192	64/64	0.000002～0.0043	(0.000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000006～ 0.00039 Fish 0.000002～0.00036 Birds 0.000055～ 0.00010	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. — C.S. —	W.S. — C.S. —	W.S. — C.S. —	(W.S. —) (C.S. —)					
			2007	48/48	48/48	0.000013～0.00072	(0.0000006)	192/192	64/64	0.0000013～0.012	(0.0000006)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000008～ 0.0014 Fish 0.000002～0.00073 Birds 0.000043～ 0.00021	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. — C.S. —	W.S. — C.S. —	W.S. — C.S. —	(W.S. —) (C.S. —)					
			2008	48/48	48/48	0.000009～0.0011	(0.000002)	191/192	64/64	0.0000016～ 0.0052	(0.0000006)	Bivalves 31/31 Fish 84/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000007～ 0.00038 Fish 0.000002～0.00041 Birds 0.000032～ 0.000061	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. — C.S. —	W.S. — C.S. —	W.S. — C.S. —	(W.S. —) (C.S. —)					
			2009	49/49	49/49	0.000014～0.00056	(0.0000004)	191/192	64/64	0.0000012～ 0.0063	(0.0000004)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000009～ 0.0022 Fish 0.000002～0.00083 Birds 0.000034～ 0.000056	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.019～ 0.34 C.S. 0.0078～ 0.40	(W.S. 0.00005) (C.S. 0.00005)					
			2010	49/49	49/49	0.000014～0.0014	(0.000001)	64/64	64/64	0.0000031～ 0.0037	(0.0000008)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000013～ 0.00073 Fish 0.000001～0.00025 Birds 0.00016～0.00043	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.014～ 0.28 C.S. 0.0068～ 0.41	(W.S. 0.00047) (C.S. 0.00047)					
			2011	49/49	49/49	0.000011～0.0010	(0.000003)	64/64	64/64	0.0000016～ 0.0051	(0.0000006)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000013～ 0.0012 Fish 0.000002～0.00069 Birds 0.000048	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.0095～ 0.41 C.S. 0.0065～ 0.68	(W.S. 0.00083) (C.S. 0.00083)					
			2012	48/48	48/48	0.0000095～0.0022	(0.0000005)	63/63	63/63	0.0000011～ 0.0039	(0.0000005)	Bivalves 5/5 Fish 18/19 Birds 2/2	Bivalves 5/5 Fish 18/19 Birds 2/2	Bivalves 0.0000040～ 0.00034 Fish 0.0000041～ 0.00017 Birds 0.000032～ 0.000039	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.015～ 0.25 C.S. 0.0044～ 0.12	(W.S. 0.0007) (C.S. 0.0007)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2013	48/48	48/48	0.000009～0.0019	(0.000002)	63/63	63/63	0.0000006～0.0032	(0.0000005)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000006～0.00069 Fish 0.000002～0.00032 Birds 0.000016～0.00013	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.013～0.22 C.S. 0.0039～0.075	(W.S. 0.0017) (C.S. 0.0017)					
			2014	48/48	48/48	0.0000073～0.00070	(0.0000015)	62/63	62/63	0.0000017～0.0043	(0.0000008)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.000007～0.000039 Fish 0.000001～0.00021 Birds 0.000017～0.00022	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.014～0.65	(0.00006)					
			2015	48/48	48/48	0.0000087～0.00061	(0.0000004)	62/62	62/62	0.0000011～0.0096	(0.0000003)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.0000035～0.000025 Fish 0.0000013～0.00018 Birds 0.000013	(Bivalves 0.0000010) (Fish 0.0000010) (Birds 0.0000010)	35/35	35/35	0.0088～0.30	(0.00006)					
			2016	48/48	48/48	0.0000051～0.00064	(0.0000004)	62/62	62/62	0.0000011～0.0050	(0.0000003)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.000005～0.000022 Fish 0.000002～0.000081 Birds 0.000023～0.00017	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.0054～0.52	(0.00007)					
			2017	47/47	47/47	0.0000037～0.00068	(0.0000004)	62/62	62/62	0.0000010～0.0019	(0.0000002)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.000006～0.000032 Fish 0.000001～0.00013 Birds 0.000007～0.00093	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.0049～0.70	(0.00003)					
			2019	48/48	48/48	0.000002～0.00064	(0.000002)	61/61	61/61	0.0000013～0.0026	(0.0000004)	Bivalves 3/3 Fish 12/16 Birds 1/1	Bivalves 3/3 Fish 12/16 Birds 1/1	Bivalves 0.000004～0.000014 Fish 0.000003～0.00013 Birds 0.000063	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	36/36	36/36	0.0063～0.23	(0.00005)					
			2022	48/48	48/48	0.0000019～0.00043	(0.0000005)	61/61	61/61	0.0000012～0.0028	(0.0000003)	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 0.0000025～0.000016 Fish 0.0000007～0.000082 Birds 0.000035～	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	34/34	34/34	0.0029～0.10	(0.00004)					
593	*beta* -Hexachlorocyclohexane (*beta* -HCH)	319-85-7	1974	0/60	0/12	—	(0.1)	9/60	2/12	0.03～0.05	(0.01)	Fish 2/60	Fish 1/12	Fish 0.005～0.007	(Fish 0.005)									593
			1978									Bivalves 5/10 Fish 20/30 Birds 7/7	Bivalves 1/2 Fish 4/6 Birds 1/1	Bivalves 0.001～0.002 Fish 0.001～0.014 Birds 0.005～0.010	(Bivalves 0.001) (Fish 0.001)									
			1979									Bivalves 5/15 Fish 14/40 Birds 6/6	Bivalves 1/3 Fish 3/8 Birds 1/1	Bivalves 0.006～0.009 Fish 0.001～0.032 Birds 0.006～0.011	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1980									Bivalves 5/15 Fish 24/50 Birds 8/8	Bivalves 1/3 Fish 6/10 Birds 1/1	Bivalves 0.014～0.026 Fish 0.001～0.076 Birds 0.008～0.060	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1981									Bivalves 15/20 Fish 29/46 Birds 7/7	Bivalves 3/4 Fish 6/9 Birds 1/1	Bivalves 0.002～0.004 Fish 0.002～0.059 Birds 0.006～0.029	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 15/20 Fish 34/50 Birds 9/9	Bivalves 3/4 Fish 7/10 Birds 2/2	Bivalves 0.001～0.003 Fish 0.001～0.029 Birds 0.006～0.012	(Bivalves 0.001) (Fish 0.001～0.002) (Birds 0.001)									
			1983									Bivalves 10/20 Fish 38/50 Birds 10/10	Bivalves 2/4 Fish 9/10 Birds 2/2	Bivalves 0.001～0.005 Fish 0.001～0.028 Birds 0.009～0.103	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 10/20 Fish 29/60 Birds 10/10	Bivalves 2/4 Fish 6/12 Birds 2/2	Bivalves 0.002～0.003 Fish 0.001～0.048 Birds 0.008～0.055	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 5/20 Fish 25/60 Birds 10/10	Bivalves 1/4 Fish 5/12 Birds 2/2	Bivalves 0.002～0.003 Fish 0.001～0.039 Birds 0.008～0.043	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986		0/18	—			4/18	0.0002～0.0013		Bivalves 4/20 Fish 25/60 Birds 10/10	Bivalves 1/4 Fish 5/12 Birds 2/2	Bivalves 0.001～0.002 Fish 0.001～0.014 Birds 0.010～0.033	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987		1/20	0.010			7/20	0.00008～0.0047		Bivalves 5/20 Fish 19/65 Birds 10/10	Bivalves 1/4 Fish 4/13 Birds 2/2	Bivalves 0.001～0.003 Fish 0.001～0.013 Birds 0.006～0.053	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988		3/22	0.0048～0.045			2/22	0.00023～0.016		Bivalves 0/20 Fish 15/65 Birds 10/10	Bivalves 0/4 Fish 5/13 Birds 2/2	Bivalves — Fish 0.001～0.004 Birds 0.004～0.026	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989		2/17	0.0053～0.010			2/17	0.0061～0.015		Bivalves 4/21 Fish 17/65 Birds 10/10	Bivalves 1/5 Fish 4/13 Birds 2/2	Bivalves 0.002～0.004 Fish 0.001～0.006 Birds 0.005～0.018	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990		2/18	0.0055～0.012			4/18	0.000090～0.00727		Bivalves 4/21 Fish 17/65 Birds 10/10	Bivalves 1/5 Fish 4/13 Birds 2/2	Bivalves 0.002～0.004 Fish 0.001～0.006 Birds 0.005～0.018	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991		1/18	0.026			2/18	0.0012～0.0044		Bivalves 4/30 Fish 13/65 Birds 10/10	Bivalves 1/6 Fish 4/13 Birds 2/2	Bivalves 0.001～0.002 Fish 0.001～0.009 Birds 0.004～0.018	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992		1/18	0.009			1/18	0.00090		Bivalves 2/30 Fish 26/70 Birds 10/10	Bivalves 1/6 Fish 6/14 Birds 2/2	Bivalves 0.001 Fish 0.001～0.004 Birds 0.005～0.011	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1993		0/19	—			4/19	0.00015～0.0023		Bivalves 2/30 Fish 11/70 Birds 10/10	Bivalves 1/6 Fish 3/14 Birds 2/2	Bivalves 0.001～0.002 Fish 0.001～0.006 Birds 0.006～0.010	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994		0/17	—			2/17	0.00011～0.016		Bivalves 0/30 Fish 14/70 Birds 5/5	Bivalves 0/6 Fish 3/14 Birds 1/1	Bivalves — Fish 0.001～0.007 Birds 0.002～0.014	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995		0/18	—			3/18	0.0012～0.0034		Bivalves 0/30 Fish 10/70 Birds 10/10	Bivalves 0/6 Fish 2/14 Birds 2/2	Bivalves — Fish 0.002～0.007 Birds 0.003～0.011	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996		0/18	—			5/18	0.00056～0.00843		Bivalves 0/30 Fish 12/70 Birds 10/10	Bivalves 0/6 Fish 3/14 Birds 2/2	Bivalves — Fish 0.001～0.007 Birds 0.003～0.009	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1997		0/18	—			4/18	0.00051～0.010														
			1998		0/18	—			1/18	0.0021		Bivalves 0/30 Fish 10/70 Birds 10/10	Bivalves 0/6 Fish 2/14 Birds 2/2	Bivalves — Fish 0.001～0.003 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999						1/18	0.016														
			2000						2/17	0.00058～0.00080		Bivalves 0/30 Fish 7/69 Birds 10/10	Bivalves 0/6 Fish 2/14 Birds 2/2	Bivalves — Fish 0.001～0.003 Birds 0.002～0.008	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001						3/20	0.00048～0.0068		Bivalves 5/30 Fish 11/72 Birds 10/10	Bivalves 1/6 Fish 3/15 Birds 2/2	Bivalves 0.002 Fish 0.001～0.002 Birds 0.002～0.010	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	114/114	38/38	0.000024～0.0016	(0.0000003)	189/189	63/63	0.0000039～0.011	(0.0000003)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000032～0.0017 Fish 0.000005～0.0018 Birds 0.0016～0.0073	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)									
			2003	36/36	36/36	0.000014～0.0017	(0.0000007)	186/186	62/62	0.000005～0.039	(0.0000007)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.000023～0.0011 Fish 0.0000035～0.0011 Birds 0.0018～0.0059	(Bivalves 0.0000033) (Fish 0.0000033) (Birds 0.0000033)	W.S. — C.S. —	W.S. — C.S. —	W.S. — C.S. —	(W.S. —) (C.S. —)					
			2004	38/38	38/38	0.000031～0.0034	(0.000002)	189/189	63/63	0.000004～0.053	(0.0000008)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.000022～0.0018 Fish 0.0000039～0.0011 Birds 0.0011～0.0048	(Bivalves 0.0000020) (Fish 0.0000020) (Birds 0.0000020)	W.S. — C.S. —	W.S. — C.S. —	W.S. — C.S. —	(W.S. —) (C.S. —)					
			2005	47/47	47/47	0.000025～0.0023	(0.0000009)	189/189	63/63	0.0000039～0.013	(0.0000009)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000020～0.0020 Fish 0.0000067～0.0013 Birds 0.00093～0.0060	(Bivalves 0.00000075) (Fish 0.00000075) (Birds 0.00000075)	W.S. — C.S. —	W.S. — C.S. —	W.S. — C.S. —	(W.S. —) (C.S. —)					
			2006	48/48	48/48	0.000042～0.0020	(0.0000006)	192/192	64/64	0.0000023～0.021	(0.0000004)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000011～0.00088 Fish 0.000004～0.0011 Birds 0.0011～0.0042	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. — C.S. —	W.S. — C.S. —	W.S. — C.S. —	(W.S. —) (C.S. —)					
			2007	48/48	48/48	0.000018～0.0013	(0.0000009)	192/192	64/64	0.0000016～0.059	(0.0000003)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000021～0.0018 Fish 0.000007～0.00081 Birds 0.0014～0.0032	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. — C.S. —	W.S. — C.S. —	W.S. — C.S. —	(W.S. —) (C.S. —)					
			2008	48/48	48/48	0.000015～0.0018	(0.0000004)	192/192	64/64	0.0000028～0.0089	(0.0000003)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000023～0.0011 Fish 0.000004～0.00075 Birds 0.0013～0.0056	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. — C.S. —	W.S. — C.S. —	W.S. — C.S. —	(W.S. —) (C.S. —)					
			2009	49/49	49/49	0.000018～0.0011	(0.0000002)	192/192	64/64	0.0000024～0.010	(0.0000005)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000027～0.0016 Fish 0.000005～0.00097 Birds 0.00087～0.0042	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00096～0.028 C.S. 0.00031～0.024	(W.S. 0.00003) (C.S. 0.00003)					
			2010	49/49	49/49	0.000033～0.0025	(0.0000007)	64/64	64/64	0.000011～0.0082	(0.0000008)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000027～0.0015 Fish 0.000005～0.00076 Birds 0.00091～0.0028	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00089～0.034 C.S. 0.00026～0.029	(W.S. 0.00009) (C.S. 0.00009)					
			2011	49/49	49/49	0.000028～0.00084	(0.0000008)	64/64	64/64	0.000003～0.014	(0.000001)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000039～0.0020 Fish 0.000004～0.00071 Birds 0.0045	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.00084～0.049 C.S. 0.00031～0.091	(W.S. 0.00013) (C.S. 0.00013)					
			2012	48/48	48/48	0.000017～0.00082	(0.0000005)	63/63	63/63	0.0000037～0.0083	(0.0000006)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000015～0.00098 Fish 0.0000065～0.00051 Birds 0.00073～0.0026	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00065～0.032 C.S. 0.00026～0.0085	(W.S. 0.00012) (C.S. 0.00012)					
			2013	48/48	48/48	0.000020～0.0011	(0.000002)	63/63	63/63	0.0000045～0.0069	(0.0000001)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000017～0.00071 Fish 0.0000072～0.00042 Birds 0.00061～0.0030	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00066～0.037 C.S. 0.00017～0.0067	(W.S. 0.00007) (C.S. 0.00007)					
			2014	48/48	48/48	0.000011～0.0011	(0.0000004)	63/63	63/63	0.0000029～0.0072	(0.0000003)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000028～0.000064 Fish 0.0000044～0.00046 Birds 0.000024～0.0036	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	36/36	36/36	0.00057～0.074	(0.00008)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2015	48/48	48/48	0.000021～0.0011	(0.0000004)	62/62	62/62	0.0000025～0.0059	(0.0000003)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.000013～0.000069 Fish 0.0000060～0.00039 Birds 0.000057	(Bivalves 0.0000010) (Fish 0.0000010) (Birds 0.0000010)	35/35	35/35	0.00036～0.034	(0.00008)					
			2016	48/48	48/48	0.000012～0.0011	(0.0000004)	62/62	62/62	0.0000037～0.0060	(0.0000003)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000021～0.000050 Fish 0.000005～0.00020 Birds 0.00079～0.0026	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.0003～0.064	(0.0001)					
			2017	47/47	47/47	0.000012～0.00083	(0.0000007)	62/62	62/62	0.0000057～0.0034	(0.0000006)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000021～0.000060 Fish 0.000004～0.00029 Birds 0.00030～0.0035	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00067～0.059	(0.00004)					
			2019	48/48	48/48	0.000017～0.00057	(0.000001)	61/61	61/61	0.0000040～0.0041	(0.0000005)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000011～0.000033 Fish 0.000003～0.00040 Birds 0.00095	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.00038～0.029	(0.00002)					
			2022	48/48	48/48	0.0000095～0.00054	(0.0000002)	61/61	61/61	0.0000022～0.0029	(0.0000006)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000010～0.000035 Fish 0.0000022～0.00023 Birds 0.00097～0.0013	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	34/34	34/34	0.00023～0.014	(0.00003)					
594	*gamma* -Hexachlorocyclohexane (*gamma* -HCH) (synonym: Lindane)	58-89-9	1974	0/60	0/12	—	(0.1)	9/60	2/12	0.01	(0.01)	Fish 2/60	Fish 2/12	Fish 0.007～0.013	(Fish 0.005)									594
			1978									Bivalves 5/10 Fish 20/30 Birds 4/7	Bivalves 1/2 Fish 4/6 Birds 1/1	Bivalves 0.001～0.002 Fish 0.001～0.005 Birds 0.001～0.011	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1979									Bivalves 5/15 Fish 14/40 Birds 1/6	Bivalves 1/3 Fish 4/8 Birds 1/1	Bivalves 0.008～0.009 Fish 0.001～0.007 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1980									Bivalves 5/15 Fish 26/50 Birds 2/8	Bivalves 1/3 Fish 6/10 Birds 1/1	Bivalves 0.017～0.018 Fish 0.001～0.003 Birds 0.002～0.005	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1981									Bivalves 9/20 Fish 29/46 Birds 1/7	Bivalves 2/4 Fish 6/9 Birds 1/1	Bivalves 0.001～0.004 Fish 0.001～0.004 Birds 0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 10/20 Fish 25/50 Birds 1/9	Bivalves 2/4 Fish 6/10 Birds 1/2	Bivalves 0.002～0.009 Fish 0.001～0.003 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1983									Bivalves 9/20 Fish 18/50 Birds 4/10	Bivalves 2/4 Fish 5/10 Birds 1/2	Bivalves 0.001～0.012 Fish 0.001～0.002 Birds 0.001～0.003	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 8/20 Fish 21/60 Birds 5/10	Bivalves 2/4 Fish 5/12 Birds 1/2	Bivalves 0.001～0.004 Fish 0.001～0.004 Birds 0.001～0.004	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 5/20 Fish 8/60 Birds 0/10	Bivalves 1/4 Fish 3/12 Birds 0/2	Bivalves 0.002～0.003 Fish 0.001～0.002 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986									Bivalves 5/20 Fish 5/60 Birds 0/10	Bivalves 1/4 Fish 1/12 Birds 0/2	Bivalves 0.001～0.005 Fish 0.001～0.002 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987									Bivalves 6/20 Fish 6/65 Birds 0/10	Bivalves 2/4 Fish 2/13 Birds 0/2	Bivalves 0.001～0.003 Fish 0.001～0.009 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988									Bivalves 0/20 Fish 1/65 Birds 0/10	Bivalves 0/4 Fish 1/13 Birds 0/2	Bivalves — Fish 0.001 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989									Bivalves 4/21 Fish 0/65 Birds 4/10	Bivalves 1/5 Fish 0/13 Birds 1/2	Bivalves 0.001～0.002 Fish — Birds 0.001～0.004	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990									Bivalves 1/25 Fish 0/65 Birds 2/10	Bivalves 1/5 Fish 0/13 Birds 1/2	Bivalves 0.001 Fish — Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991									Bivalves 1/30 Fish 0/65 Birds 0/10	Bivalves 1/6 Fish 0/13 Birds 0/2	Bivalves 0.001 Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992									Bivalves 0/30 Fish 3/70 Birds 0/10	Bivalves 0/6 Fish 2/14 Birds 0/2	Bivalves — Fish 0.001～0.005 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994									Bivalves 0/30 Fish 0/70 Birds 4/5	Bivalves 0/6 Fish 0/14 Birds 1/1	Bivalves — Fish — Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2003	36/36	36/36	0.000032～0.00037	(0.000002)	186/186	62/62	0.0000014～0.004	(0.0000004)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000052～0.00013 Fish 0.0000017～0.00013 Birds 0.0000037～0.000040	(Bivalves 0.0000011) (Fish 0.0000011) (Birds 0.0000011)	W.S. － C.S. －	W.S. － C.S. －	W.S. － C.S. －	(W.S. －) (C.S. －)					
			2004	38/38	38/38	0.000021～0.0082	(0.000007)	189/189	63/63	0.0000008～0.0041	(0.0000005)	Bivalves 28/31 Fish 55/70 Birds 10/10	Bivalves 7/7 Fish 11/14 Birds 2/2	Bivalves 0.000010～0.00023 Fish 0.000011～0.00066 Birds 0.000011～0.0012	(Bivalves 0.000010) (Fish 0.000010) (Birds 0.000010)	W.S. － C.S. －	W.S. － C.S. －	W.S. － C.S. －	(W.S. －) (C.S. －)					
			2005	47/47	47/47	0.000008～0.00025	(0.000005)	189/189	63/63	0.0000018～0.0064	(0.0000007)	Bivalves 31/31 Fish 78/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000057～0.00037 Fish 0.0000030～0.00023 Birds 0.0000096～0.000032	(Bivalves 0.0000028) (Fish 0.0000028) (Birds 0.0000028)	W.S. － C.S. －	W.S. － C.S. －	W.S. － C.S. －	(W.S. －) (C.S. －)					
			2006	48/48	48/48	0.000009～0.00046	(0.000006)	192/192	64/64	0.0000014～0.0035	(0.0000007)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000007～0.00014 Fish 0.000002～0.000097 Birds 0.000008～0.000029	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. － C.S. －	W.S. － C.S. －	W.S. － C.S. －	(W.S. －) (C.S. －)					
			2007	48/48	48/48	0.0000052～0.00029	(0.0000007)	192/192	64/64	0.0000006～0.0052	(0.0000004)	Bivalves 31/31 Fish 71/80 Birds 10/10	Bivalves 7/7 Fish 15/16 Birds 2/2	Bivalves 0.000004～0.00045 Fish 0.000003～0.00019 Birds 0.000008～0.00014	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. － C.S. －	W.S. － C.S. －	W.S. － C.S. －	(W.S. －) (C.S. －)					
			2008	48/48	48/48	0.000004～0.00034	(0.000001)	192/192	64/64	0.0000007～0.0022	(0.0000004)	Bivalves 31/31 Fish 70/85 Birds 10/10	Bivalves 7/7 Fish 15/17 Birds 2/2	Bivalves 0.000003～0.000098 Fish 0.000003～0.000096 Birds 0.000005～0.000019	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. － C.S. －	W.S. － C.S. －	W.S. － C.S. －	(W.S. －) (C.S. －)					
			2009	49/49	49/49	0.0000051～0.00028	(0.0000002)	191/192	64/64	0.0000006～0.0038	(0.0000002)	Bivalves 31/31 Fish 81/90 Birds 10/10	Bivalves 7/7 Fish 17/18 Birds 2/2	Bivalves 0.000003～0.000089 Fish 0.000003～0.00018 Birds 0.000006～0.000021	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0029～0.065 C.S. 0.0015～0.055	(W.S. 0.00002) (C.S. 0.00002)					
			2010	49/49	49/49	0.000005～0.00019	(0.000002)	64/64	64/64	0.0000015～0.0023	(0.0000007)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000005～0.00015 Fish 0.000001～0.000056 Birds 0.000004～0.000023	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0023～0.066 C.S. 0.0011～0.06	(W.S. 0.00012) (C.S. 0.00012)					
			2011	49/49	49/49	0.000003～0.00017	(0.000001)	62/64	62/64	0.000001～0.0035	(0.000001)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000005～0.00032 Fish 0.000001～0.00016 Birds 0.000026	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.0027～0.098 C.S. 0.0011～0.067	(W.S. 0.00052) (C.S. 0.00052)					
			2012	48/48	48/48	0.000003～0.00044	(0.0000004)	61/63	61/63	0.0000006～0.0035	(0.0000004)	Bivalves 5/5 Fish 18/19 Birds 2/2	Bivalves 5/5 Fish 18/19 Birds 2/2	Bivalves 0.0000030～0.000068 Fish 0.0000011～0.000043 Birds 0.0000063～0.000019	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0023～0.055 C.S. 0.00063～0.019	(W.S. 0.00032) (C.S. 0.00032)					
			2013	48/48	48/48	0.0000032～0.00056	(0.0000008)	63/63	63/63	0.0000009～0.0021	(0.0000002)	Bivalves 5/5 Fish 17/19 Birds 2/2	Bivalves 5/5 Fish 17/19 Birds 2/2	Bivalves 0.0000021～0.000031 Fish 0.0000017～0.000081 Birds 0.0000015～0.000024	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 36/36 C.S. 34/36	W.S. 36/36 C.S. 34/36	W.S. 0.0020～0.058 C.S. 0.0008～0.012	(W.S. 0.0007) (C.S. 0.0007)					
			2014	48/48	48/48	0.0000035～0.00035	(0.0000004)	61/63	61/63	0.0000010～0.0026	(0.0000009)	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 0.0000046～0.000018 Fish 0.0000023～0.000045 Birds 0.0000044～0.000024	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	36/36	36/36	0.0017～0.10	(0.00006)					
			2015	48/48	48/48	0.0000026～0.00011	(0.0000003)	62/62	62/62	0.0000003～0.0028	(0.0000002)	Bivalves 3/3 Fish 14/19 Birds 0/1	Bivalves 3/3 Fish 14/19 Birds 0/1	Bivalves 0.0000036～0.000014 Fish 0.0000022～0.000042 Birds －	(Bivalves 0.0000016) (Fish 0.0000016) (Birds 0.0000016)	35/35	35/35	0.0014～0.051	(0.00006)					
			2016	48/48	48/48	0.0000018～0.00013	(0.0000003)	62/62	62/62	0.0000007～0.0031	(0.0000003)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.000004～0.000011 Fish 0.000001～0.000043 Birds 0.000002～0.000014	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00079～0.089	(0.00007)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2017	47/47	47/47	0.0000021～0.00019	(0.0000005)	62/62	62/62	0.0000004～0.0019	(0.0000004)	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 0.000002～0.000011 Fish 0.000001～0.000030 Birds 0.000001～0.000020	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00084～0.093	(0.00004)					
			2019	47/48	47/48	0.000002～0.00048	(0.000002)	61/61	61/61	0.0000006～0.0021	(0.0000004)	Bivalves 2/3 Fish 13/16 Birds 1/1	Bivalves 2/3 Fish 13/16 Birds 1/1	Bivalves 0.000002～0.000007 Fish 0.000001～0.000034 Birds 0.000007	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.00088～0.049	(0.00005)					
			2022	48/48	48/48	0.0000006～0.00012	(0.0000003)	61/61	61/61	0.0000007～0.0021	(0.0000005)	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 0.0000010～0.0000084 Fish 0.0000004～0.000024 Birds 0.0000018～0.0000066	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	34/34	34/34	0.00063～0.022	(0.00003)					
595	*delta* -Hexachlorocyclohexane (*delta* -HCH)	319-86-8	1974	0/60	0/12	－	(0.1)	4/60	1/12	0.01	(0.01)	Fish 0/60	Fish 0/12	Fish －	(Fish 0.005)									595
			1978									Bivalves 0/10 Fish 2/30 Birds 2/7	Bivalves 0/2 Fish 1/6 Birds 1/1	Bivalves － Fish 0.001 Birds 0.002～0.005	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1979									Bivalves 0/15 Fish 1/40 Birds 3/6	Bivalves 0/3 Fish 1/8 Birds 1/1	Bivalves － Fish 0.002 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1980									Bivalves 0/15 Fish 1/50 Birds 0/8	Bivalves 0/3 Fish 1/10 Birds 0/1	Bivalves － Fish 0.003 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1981									Bivalves 0/20 Fish 1/46 Birds 0/7	Bivalves 0/4 Fish 1/9 Birds 0/1	Bivalves － Fish 0.001 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 0/20 Fish 0/50 Birds 0/9	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1983									Bivalves 1/20 Fish 0/50 Birds 0/10	Bivalves 1/4 Fish 0/10 Birds 0/2	Bivalves 0.002 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987									Bivalves 0/20 Fish 1/65 Birds 0/10	Bivalves 0/4 Fish 1/13 Birds 0/2	Bivalves － Fish 0.001 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988									Bivalves 0/20 Fish 0/65 Birds 0/10	Bivalves 0/4 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989									Bivalves 0/21 Fish 0/65 Birds 0/10	Bivalves 0/5 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990									Bivalves 0/25 Fish 0/65 Birds 0/10	Bivalves 0/5 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2003	36/36	36/36	0.0000011～0.00020	(0.0000005)	180/186	61/62	0.0000007～0.0054	(0.0000007)	Bivalves 29/30 Fish 59/70 Birds 10/10	Bivalves 6/6 Fish 13/14 Birds 2/2	Bivalves 0.0000013～0.0013 Fish 0.0000015～0.000016 Birds 0.000012～0.000031	(Bivalves 0.0000013) (Fish 0.0000013) (Birds 0.0000013)	W.S. － C.S. －	W.S. － C.S. －	W.S. － C.S. －	(W.S. －) (C.S. －)					
			2004	38/38	38/38	0.0000014～0.00067	(0.0000007)	189/189	63/63	0.0000005～0.0055	(0.0000005)	Bivalves 25/31 Fish 54/70 Birds 10/10	Bivalves 6/7 Fish 11/14 Birds 2/2	Bivalves 0.0000016～0.0015 Fish 0.0000017～0.00027 Birds 0.0000064～0.00026	(Bivalves 0.0000015) (Fish 0.0000015) (Birds 0.0000015)	W.S. － C.S. －	W.S. － C.S. －	W.S. － C.S. －	(W.S. －) (C.S. －)					
			2005	23/47	23/47	0.0000034～0.000062	(0.0000005)	188/189	63/63	0.0000011～0.0062	(0.0000003)	Bivalves 23/31 Fish 55/80 Birds 10/10	Bivalves 6/7 Fish 12/16 Birds 2/2	Bivalves 0.0000017～0.0016 Fish 0.0000021～0.000032 Birds 0.000010～0.000030	(Bivalves 0.0000017) (Fish 0.0000017) (Birds 0.0000017)	W.S. － C.S. －	W.S. － C.S. －	W.S. － C.S. －	(W.S. －) (C.S. －)					
			2006	48/48	48/48	0.0000022～0.0010	(0.0000008)	189/192	64/64	0.0000006～0.0060	(0.0000006)	Bivalves 31/31 Fish 72/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000001～0.00089 Fish 0.000001～0.000035 Birds 0.000009～0.000021	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. － C.S. －	W.S. － C.S. －	W.S. － C.S. －	(W.S. －) (C.S. －)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2007	48/48	48/48	0.0000007～0.00072	(0.0000004)	165/192	60/64	0.000002～0.0054	(0.000002)	Bivalves 12/31 Fish 42/80 Birds 10/10	Bivalves 4/7 Fish 10/16 Birds 2/2	Bivalves 0.000002～0.00075 Fish 0.000002～0.000031 Birds 0.000004～0.000022	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. － C.S. －	W.S. － C.S. －	W.S. － C.S. －	(W.S. －) (C.S. －)					
			2008	48/48	48/48	0.0000011～0.0019	(0.0000009)	186/192	64/64	0.000001～0.0033	(0.000001)	Bivalves 7/31 Fish 54/85 Birds 10/10	Bivalves 3/7 Fish 12/17 Birds 2/2	Bivalves 0.000002～0.00061 Fish 0.000002～0.000077 Birds 0.000003～0.000031	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. － C.S. －	W.S. － C.S. －	W.S. － C.S. －	(W.S. －) (C.S. －)					
			2009	49/49	49/49	0.0000007～0.00045	(0.0000004)	190/192	64/64	0.0000005～0.0050	(0.0000005)	Bivalves 14/31 Fish 57/90 Birds 10/10	Bivalves 4/7 Fish 13/18 Birds 2/2	Bivalves 0.000002～0.00070 Fish 0.000002～0.000018 Birds 0.000003～0.000009	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00009～0.021 C.S. 0.00004～0.020	(W.S. 0.00002) (C.S. 0.00002)					
			2010	49/49	49/49	0.0000009～0.00078	(0.0000003)	64/64	64/64	0.0000013～0.0038	(0.0000005)	Bivalves 5/6 Fish 13/18 Birds 2/2	Bivalves 5/6 Fish 13/18 Birds 2/2	Bivalves 0.000001～0.00087 Fish 0.000001～0.000036 Birds 0.000011～0.000013	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00011～0.025 C.S. 0.00005～0.022	(W.S. 0.00002) (C.S. 0.00002)					
			2011	49/49	49/49	0.0000007～0.00030	(0.0000002)	63/64	63/64	0.0000009～0.0050	(0.0000005)	Bivalves 4/4 Fish 14/18 Birds 1/1	Bivalves 4/4 Fish 14/18 Birds 1/1	Bivalves 0.000001～0.0014 Fish 0.000001～0.000019 Birds 0.000005	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.00011～0.033 C.S. 0.000050～0.026	(W.S. 0.000021) (C.S. 0.000021)					
			2012	48/48	48/48	0.0000005～0.00022	(0.0000004)	62/63	62/63	0.0000008～0.0031	(0.0000003)	Bivalves 3/5 Fish 14/19 Birds 2/2	Bivalves 3/5 Fish 14/19 Birds 2/2	Bivalves 0.000001～0.00058 Fish 0.000001～0.000012 Birds 0.000002～0.000007	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 35/36	W.S. 36/36 C.S. 35/36	W.S. 0.00006～0.020 C.S. 0.00004～0.0073	(W.S. 0.00003) (C.S. 0.00003)					
			2013	48/48	48/48	0.0000006～0.00032	(0.0000004)	63/63	63/63	0.0000004～0.0025	(0.0000001)	Bivalves 3/5 Fish 14/19 Birds 2/2	Bivalves 3/5 Fish 14/19 Birds 2/2	Bivalves 0.000001～0.00023 Fish 0.000001～0.000040 Birds 0.000002～0.000004	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 34/36	W.S. 36/36 C.S. 34/36	W.S. 0.00005～0.020 C.S. 0.00003～0.0053	(W.S. 0.00003) (C.S. 0.00003)					
			2014	48/48	48/48	0.0000007～0.00059	(0.0000002)	63/63	63/63	0.0000004～0.0039	(0.0000001)	Bivalves 2/3 Fish 14/19 Birds 2/2	Bivalves 2/3 Fish 14/19 Birds 2/2	Bivalves 0.000002～0.000003 Fish 0.000002～0.000023 Birds 0.000001～0.000003	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.00007～0.050	(0.00006)					
			2015	48/48	48/48	0.0000008～0.00031	(0.0000001)	62/62	62/62	0.0000004～0.0029	(0.0000002)	Bivalves 1/3 Fish 12/19 Birds 0/1	Bivalves 1/3 Fish 12/19 Birds 0/1	Bivalves 0.0000015 Fish 0.0000010～0.000017 Birds －	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	32/35	32/35	0.00009～0.022	(0.00005)					
			2016	48/48	48/48	0.0000005～0.00092	(0.0000003)	60/62	60/62	0.0000005～0.0061	(0.0000002)	Bivalves 3/3 Fish 17/19 Birds 2/2	Bivalves 3/3 Fish 17/19 Birds 2/2	Bivalves 0.000001～0.000002 Fish 0.000001～0.000010 Birds 0.000001～0.000002	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	35/37	35/37	0.00010～0.046	(0.00008)					
			2017	47/47	47/47	0.0000004～0.00069	(0.0000004)	62/62	62/62	0.0000002～0.0017	(0.0000002)	Bivalves 3/3 Fish 15/19 Birds 1/2	Bivalves 3/3 Fish 15/19 Birds 1/2	Bivalves 0.0000010～0.0000030 Fish 0.0000010～0.000023 Birds 0.0000010	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	36/37	36/37	0.00009～0.046	(0.00003)					
			2019	46/48	46/48	0.0000005～0.000085	(0.0000004)	61/61	61/61	0.0000002～0.0025	(0.0000002)	Bivalves 0/3 Fish 6/16 Birds 1/1	Bivalves 0/3 Fish 6/16 Birds 1/1	Bivalves － Fish 0.000002～0.000005 Birds 0.000004	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	36/36	36/36	0.00002～0.019	(0.00002)					
			2022	41/48	41/48	0.0000007～0.000090	(0.0000007)	61/61	61/61	0.0000006～0.0023	(0.0000003)	Bivalves 2/3 Fish 13/18 Birds 2/2	Bivalves 2/3 Fish 13/18 Birds 2/2	Bivalves 0.0000006～0.0000030 Fish 0.0000005～0.0000055 Birds 0.0000012～0.0000021	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	32/34	32/34	0.00010～0.012	(0.00003)					
596	Hexachlorocyclopentadiene	77-47-4	1981	0/18	0/6	－	(0.2)	0/18	0/6	－	(0.02～20)													596
			2021	0/13	0/13	－	(0.00015)																	
597	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo-1,4-endo-5,8-dimethanonaphthalene (synonym: Endrin)	72-20-8	1974	0/60	0/12	－	(0.1)	0/60	0/12	－	(0.01)	Fish 0/60	Fish 0/12	Fish －	(Fish 0.005)									597
			1978									Bivalves 0/10 Fish 0/30 Birds 0/7	Bivalves 0/2 Fish 0/6 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1979									Bivalves 6/15 Fish 7/40 Birds 0/6	Bivalves 2/3 Fish 3/8 Birds 0/1	Bivalves 0.001～0.142 Fish 0.001～0.002 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1980									Bivalves 5/15 Fish 1/50 Birds 0/8	Bivalves 1/3 Fish 1/10 Birds 0/1	Bivalves 0.010～0.162 Fish 0.004 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1981									Bivalves 5/20 Fish 0/46 Birds 0/7	Bivalves 1/4 Fish 0/9 Birds 0/1	Bivalves 0.006～0.057 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 5/20 Fish 0/50 Birds 0/9	Bivalves 1/4 Fish 0/10 Birds 0/2	Bivalves 0.006～0.015 Fish － Birds －	(Bivalves 0.001) (Fish 0.001～0.003) (Birds 0.001)									
			1983									Bivalves 5/20 Fish 0/50 Birds 0/10	Bivalves 1/4 Fish 0/10 Birds 0/2	Bivalves 0.012～0.014 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 5/20 Fish 0/60 Birds 0/10	Bivalves 1/4 Fish 0/12 Birds 0/2	Bivalves 0.032～0.055 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 5/20 Fish 0/60 Birds 0/10	Bivalves 1/4 Fish 0/12 Birds 0/2	Bivalves 0.018～0.033 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986									Bivalves 4/20 Fish 0/60 Birds 0/10	Bivalves 1/4 Fish 0/12 Birds 0/2	Bivalves 0.002～0.021 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987									Bivalves 5/20 Fish 0/65 Birds 0/10	Bivalves 1/4 Fish 0/13 Birds 0/2	Bivalves 0.008～0.012 Fish － Birds －	(Bivalves 0.001) (Fish 0.001～0.002) (Birds 0.001)									
			1988									Bivalves 1/20 Fish 0/65 Birds 0/10	Bivalves 1/4 Fish 0/13 Birds 0/2	Bivalves 0.010 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989									Bivalves 4/21 Fish 0/65 Birds 0/10	Bivalves 1/5 Fish 0/13 Birds 0/2	Bivalves 0.002～0.015 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991									Bivalves 5/30 Fish 0/65 Birds 0/10	Bivalves 1/6 Fish 0/13 Birds 0/2	Bivalves 0.004～0.010 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993									Bivalves 5/30 Fish 0/70 Birds 0/10	Bivalves 1/6 Fish 0/14 Birds 0/2	Bivalves 0.004～0.018 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	101/114	36/38	0.0000020～0.000031	(0.0000020)	141/189	54/63	0.000002～0.019	(0.000002)	Bivalves 35/38 Fish 54/70 Birds 7/10	Bivalves 7/8 Fish 13/14 Birds 2/2	Bivalves 0.000008～ 0.012 Fish 0.000006～0.00018 Birds 0.000008～ 0.000099	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	90/102	32/34	0.000051～ 0.0025	(0.000030)					
			2003	36/36	36/36	0.0000007～0.000078	(0.0000003)	150/186	53/62	0.0000021～0.029	(0.000002)	Bivalves 30/30 Fish 67/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000063～ 0.0050 Fish 0.0000018～ 0.00018 Birds 0.0000054～ 0.000096	(Bivalves 0.0000016) (Fish 0.0000016) (Birds 0.0000016)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.000081 ～0.0062 C.S. 0.000042 ～0.0021	(W.S. 0.000014) (C.S. 0.000014)					
			2004	38/38	38/38	0.0000007～0.00010	(0.0000005)	182/189	63/63	0.0000009～ 0.0069	(0.0000009)	Bivalves 31/31 Fish 57/70 Birds 5/10	Bivalves 7/7 Fish 13/14 Birds 1/2	Bivalves 0.0000057～ 0.0046 Fish 0.0000045～ 0.00022 Birds 0.000049～ 0.000062	(Bivalves 0.0000042) (Fish 0.0000042) (Birds 0.0000042)	W.S. 37/37 C.S. 36/37	W.S. 37/37 C.S. 36/37	W.S. 0.000054 ～0.0065 C.S. 0.000058 ～0.0019	(W.S. 0.000048) (C.S. 0.000048)					
			2005	45/47	45/47	0.0000006～0.00012	(0.0000004)	170/189	61/63	0.0000009～0.019	(0.0000009)	Bivalves 27/31 Fish 58/80 Birds 7/10	Bivalves 7/7 Fish 12/16 Birds 2/2	Bivalves 0.0000057～ 0.0021 Fish 0.0000055～0.0021 Birds 0.000012～ 0.000064	(Bivalves 0.0000055) (Fish 0.0000055) (Birds 0.0000055)	W.S. 27/37 C.S. 8/37	W.S. 27/37 C.S. 8/37	W.S. 0.0002～ 0.0029 C.S. 0.0002～ 0.0007	(W.S. 0.0002) (C.S. 0.0002)					
			2006	44/48	44/48	0.0000004～0.000026	(0.0000004)	178/192	63/64	0.000001～0.061	(0.000001)	Bivalves 31/31 Fish 66/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000005～ 0.0031 Fish 0.000004～0.00015 Birds 0.000004～ 0.000057	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 32/37 C.S. 7/37	W.S. 32/37 C.S. 7/37	W.S. 0.00010～ 0.0054 C.S. 0.00019～ 0.0050	(W.S. 0.00010) (C.S. 0.00010)					
			2007	46/48	46/48	0.0000007～0.000025	(0.0000006)	151/192	55/64	0.000002～0.061	(0.000002)	Bivalves 31/31 Fish 69/80 Birds 9/10	Bivalves 7/7 Fish 15/16 Birds 2/2	Bivalves 0.000006～ 0.0030 Fish 0.000003～0.00017 Birds 0.000004～ 0.000055	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 36/36 C.S. 33/36	W.S. 36/36 C.S. 33/36	W.S. 0.00006～ 0.0063 C.S. 0.00005～ 0.0015	(W.S. 0.00004) (C.S. 0.00004)					
			2008	45/48	45/48	0.000001～0.000020	(0.000001)	168/192	61/64	0.0000008～0.038	(0.0000007)	Bivalves 31/31 Fish 63/85 Birds 5/10	Bivalves 7/7 Fish 14/17 Birds 1/2	Bivalves 0.000006～ 0.0015 Fish 0.000004～0.00020 Birds 0.000052～ 0.000083	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 37/37 C.S. 35/37	W.S. 37/37 C.S. 35/37	W.S. 0.00006～ 0.0046 C.S. 0.00005～ 0.0018	(W.S. 0.00004) (C.S. 0.00004)					
			2009	39/49	39/49	0.0000004～0.000067	(0.0000003)	168/192	63/64	0.0000006～0.011	(0.0000006)	Bivalves 31/31 Fish 86/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000005～ 0.0014 Fish 0.000003～0.00027 Birds 0.000003～ 0.000043	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 36/37 C.S. 36/37	W.S. 36/37 C.S. 36/37	W.S. 0.00006～ 0.0034 C.S. 0.00004～ 0.0018	(W.S. 0.00004) (C.S. 0.00004)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2011	47/49	47/49	0.0000007～0.000071	(0.0000006)	59/64	59/64	0.0000005～0.0011	(0.0000004)	Bivalves 4/4 Fish 16/18 Birds 1/1	Bivalves 4/4 Fish 16/18 Birds 1/1	Bivalves 0.000003～0.00011 Fish 0.000005～0.00016 Birds 0.000003	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 34/35 C.S. 33/37	W.S. 34/35 C.S. 33/37	W.S. 0.00005～0.0051 C.S. 0.00005～0.0018	(W.S. 0.00004) (C.S. 0.00004)					
			2014	48/48	48/48	0.0000004～0.000025	(0.0000002)					Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.000008～0.000084 Fish 0.000003～0.00014 Birds 0.000004～0.000005	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	32/36	32/36	0.00008～0.0029	(0.00007)					
			2018					48/61	48/61	0.0000012～0.0075	(0.0000009)													
598	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo-5,8-dimethano naphthalene (synonym: Dieldrin)	60-57-1	1974	0/60	0/12	－	(0.1)	0/60	0/12	－	(0.01)	Fish 0/60	Fish 0/12	Fish －	(Fish 0.005)									598
			1978									Bivalves 5/10 Fish 22/30 Birds 1/7	Bivalves 1/2 Fish 5/6 Birds 1/1	Bivalves 0.002～0.003 Fish 0.001～0.010 Birds 0.006	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1979									Bivalves 10/15 Fish 30/40 Birds 6/6	Bivalves 2/3 Fish 6/8 Birds 1/1	Bivalves 0.002～0.685 Fish 0.001～0.018 Birds 0.001～0.003	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1980									Bivalves 9/15 Fish 30/50 Birds 5/8	Bivalves 2/3 Fish 6/10 Birds 1/1	Bivalves 0.001～0.094 Fish 0.001～0.046 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1981									Bivalves 10/20 Fish 12/46 Birds 7/7	Bivalves 2/4 Fish 5/9 Birds 1/1	Bivalves 0.002～0.245 Fish 0.001～0.023 Birds 0.001～0.021	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 10/20 Fish 20/50 Birds 4/9	Bivalves 2/4 Fish 4/10 Birds 1/2	Bivalves 0.001～0.088 Fish 0.002～0.019 Birds 0.057～0.124	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1983									Bivalves 10/20 Fish 27/50 Birds 10/10	Bivalves 2/4 Fish 6/10 Birds 2/2	Bivalves 0.002～0.082 Fish 0.001～0.011 Birds 0.001～0.037	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 10/20 Fish 30/60 Birds 5/10	Bivalves 2/4 Fish 7/12 Birds 1/2	Bivalves 0.001～0.345 Fish 0.001～0.018 Birds 0.022～0.037	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 11/20 Fish 27/60 Birds 5/10	Bivalves 3/4 Fish 7/12 Birds 1/2	Bivalves 0.001～0.181 Fish 0.001～0.013 Birds 0.019～0.031	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986		0/18	－			1/18	0.0017		Bivalves 10/20 Fish 25/60 Birds 8/10	Bivalves 2/4 Fish 6/12 Birds 2/2	Bivalves 0.003～0.243 Fish 0.001～0.005 Birds 0.001～0.013	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987		0/20	－			3/20	0.00014～0.0034		Bivalves 12/20 Fish 23/65 Birds 5/10	Bivalves 3/4 Fish 7/13 Birds 1/2	Bivalves 0.001～0.067 Fish 0.001～0.003 Birds 0.013～0.031	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988		0/22	－			1/22	0.00056		Bivalves 8/20 Fish 19/65 Birds 6/10	Bivalves 2/4 Fish 6/13 Birds 2/2	Bivalves 0.001～0.069 Fish 0.001～0.005 Birds 0.001～0.035	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989		1/17	0.011			1/17	0.0019		Bivalves 10/21 Fish 35/65 Birds 7/10	Bivalves 2/5 Fish 9/13 Birds 2/2	Bivalves 0.001～0.091 Fish 0.001～0.007 Birds 0.001～0.010	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990		0/18	－			0/18	－		Bivalves 12/25 Fish 20/65 Birds 5/10	Bivalves 3/5 Fish 6/13 Birds 1/2	Bivalves 0.001～0.110 Fish 0.001～0.012 Birds 0.007～0.016	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991		0/18	－			2/18	0.0020～0.0022		Bivalves 15/30 Fish 22/65 Birds 9/10	Bivalves 3/6 Fish 6/13 Birds 2/2	Bivalves 0.001～0.046 Fish 0.001～0.009 Birds 0.001～0.012	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992		0/18	－			4/18	0.00052～0.0034		Bivalves 10/30 Fish 16/70 Birds 7/10	Bivalves 2/6 Fish 5/14 Birds 2/2	Bivalves 0.003～0.150 Fish 0.001～0.003 Birds 0.001～0.011	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993		0/19	－			4/19	0.000079～0.003		Bivalves 10/30 Fish 25/70 Birds 7/10	Bivalves 2/6 Fish 7/14 Birds 2/2	Bivalves 0.002～0.16 Fish 0.001～0.005 Birds 0.001～0.009	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994		0/17	－			1/17	0.0049		Bivalves 10/30 Fish 12/70 Birds 0/5	Bivalves 2/6 Fish 4/14 Birds 0/1	Bivalves 0.001～0.210 Fish 0.001～0.004 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995		0/18	－			2/18	0.00071～0.0092		Bivalves 5/30 Fish 10/70 Birds 5/10	Bivalves 1/6 Fish 4/14 Birds 1/2	Bivalves 0.080～0.170 Fish 0.001～0.003 Birds 0.002～0.010	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996		0/18	－			1/18	0.00162		Bivalves 10/30 Fish 9/70 Birds 6/10	Bivalves 2/6 Fish 4/14 Birds 2/2	Bivalves 0.001～0.071 Fish 0.001～0.002 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1997		0/18	－			3/18	0.00029～0.00329														
			1998		0/18	－			2/18	0.00028～0.0011		Bivalves 8/30 Fish 6/70 Birds 5/10	Bivalves 2/6 Fish 2/14 Birds 1/2	Bivalves 0.001～0.055 Fish 0.001～0.002 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999						1/18	0.00056														
			2000						1/17	0.0018		Bivalves 5/30 Fish 10/70 Birds 2/10	Bivalves 1/6 Fish 2/14 Birds 1/2	Bivalves 0.038～0.160 Fish 0.001～0.004 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001						1/20	0.00067		Bivalves 10/30 Fish 8/72 Birds 8/10	Bivalves 2/6 Fish 5/15 Birds 2/2	Bivalves 0.002～0.071 Fish 0.001～0.003 Birds 0.001～0.005	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	114/114	38/38	0.0000033～0.00094	(0.0000006)	189/189	63/63	0.000004～0.0023	(0.000001)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000007～0.19 Fish 0.000046～0.0024 Birds 0.00082～0.0017	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	102/102	34/34	0.00073～0.11	(0.00020)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2003	36/36	36/36	0.0000097～0.00051	(0.0000003)	184/186	62/62	0.0000023～0.0091	(0.000002)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.000046～0.078 Fish 0.000029～0.001 Birds 0.00079～0.0022	(Bivalves 0.0000016) (Fish 0.0000016) (Birds 0.0000016)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.0021～0.26 C.S. 0.00082～0.11	(W.S. 0.00070) (C.S. 0.00070)					
			2004	38/38	38/38	0.000009～0.00043	(0.0000005)	189/189	63/63	0.0000019～0.0037	(0.0000009)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.000042～0.069 Fish 0.000023～0.0028 Birds 0.00037～0.00096	(Bivalves 0.000010) (Fish 0.000010) (Birds 0.000010)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0011～0.28 C.S. 0.00081～0.076	(W.S. 0.00011) (C.S. 0.00011)					
			2005	47/47	47/47	0.0000045～0.00063	(0.00000034)	189/189	63/63	0.000002～0.0042	(0.000001)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000034～0.039 Fish 0.000021～0.0014 Birds 0.00050～0.0018	(Bivalves 0.0000034) (Fish 0.0000034) (Birds 0.0000034)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0015～0.20 C.S. 0.00088～0.050	(W.S. 0.00024) (C.S. 0.00024)					
			2006	48/48	48/48	0.000006～0.00080	(0.000001)	192/192	64/64	0.0000017～0.0015	(0.0000010)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000030～0.047 Fish 0.000019～0.0014 Birds 0.00044～0.0013	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0015～0.29 C.S. 0.0007～0.25	(W.S. 0.0001) (C.S. 0.0001)					
			2007	48/48	48/48	0.0000031～0.00075	(0.0000007)	192/192	64/64	0.0000012～0.0027	(0.0000009)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000037～0.077 Fish 0.000023～0.0019 Birds 0.00056～0.00091	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0013～0.31 C.S. 0.00096～0.075	(W.S. 0.00007) (C.S. 0.00007)					
			2008	48/48	48/48	0.0000036～0.00045	(0.0000006)	192/192	64/64	0.0000007～0.0029	(0.0000005)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000047～0.024 Fish 0.000015～0.0013 Birds 0.00026～0.0013	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0016～0.22 C.S. 0.00068～0.072	(W.S. 0.00009) (C.S. 0.00009)					
			2009	49/49	49/49	0.0000027～0.00065	(0.0000002)	192/192	64/64	0.0000011～0.0030	(0.0000003)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000048～0.028 Fish 0.000029～0.0014 Birds 0.00033～0.00089	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00091～0.15 C.S. 0.00052～0.080	(W.S. 0.00002) (C.S. 0.00002)					
			2011	49/49	49/49	0.0000021～0.00030	(0.0000006)	64/64	64/64	0.000002～0.0022	(0.000002)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000016～0.0038 Fish 0.000017～0.0011 Birds 0.00077	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.00080～0.23 C.S. 0.00052～0.096	(W.S. 0.00014) (C.S. 0.00014)					
			2014	48/48	48/48	0.0000027～0.00020	(0.0000002)					Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000041～0.00049 Fish 0.000027～0.0010 Birds 0.00019～0.00053	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.00089～0.16	(0.00011)					
			2018					60/61	60/61	0.0000014～0.00086	(0.0000006)													
599	Hexachloroethane	67-72-1	1976	0/60	0/13	－	(0.1～5)	0/40	0/11	－	(0.01～0.3)	Fish 0/10	Fish 0/2	Fish －	(Fish 0.3)									599
			2020	0/22	0/22	－	(0.00055)																	
600	1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene (synonym: Aldrin)	309-00-2	1974	0/60	0/12	－	(0.1)	0/60	0/12	－	(0.01)	Fish 0/60	Fish 0/12	Fish －	(Fish 0.005)									600
			1978									Bivalves 0/10 Fish 0/30 Birds 1/7	Bivalves 0/2 Fish 0/6 Birds 1/1	Bivalves － Fish － Birds 0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1979									Bivalves 0/15 Fish 0/40 Birds 0/6	Bivalves 0/3 Fish 0/8 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1980									Bivalves 0/15 Fish 0/50 Birds 0/8	Bivalves 0/3 Fish 0/10 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1981									Bivalves 0/20 Fish 0/46 Birds 0/7	Bivalves 0/4 Fish 0/9 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 0/20 Fish 0/50 Birds 0/9	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1983									Bivalves 0/20 Fish 0/50 Birds 0/10	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987									Bivalves 0/20 Fish 0/65 Birds 0/10	Bivalves 0/4 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988									Bivalves 0/20 Fish 0/65 Birds 0/10	Bivalves 0/4 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989									Bivalves 0/21 Fish 0/65 Birds 0/10	Bivalves 0/5 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991									Bivalves 0/30 Fish 0/65 Birds 0/10	Bivalves 0/6 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993									Bivalves 0/30 Fish 4/70 Birds 0/10	Bivalves 0/6 Fish 1/14 Birds 0/2	Bivalves － Fish 0.001～0.002 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2002	93/114	37/38	0.00000004～0.000018	(0.0000002)	149/189	56/63	0.000002～0.00057	(0.000002)	Bivalves 12/38 Fish 1/70 Birds 0/10	Bivalves 4/8 Fish 1/14 Birds 0/2	Bivalves 0.0000017～0.000034 Fish 0.0000020 Birds －	(Bivalves 0.0000014) (Fish 0.0000014) (Birds 0.0000014)	41/102	19/34	0.000029～0.0032	(0.000020)					
			2003	34/36	34/36	0.0000003～0.0000038	(0.0000002)	178/186	60/62	0.0000006～0.001	(0.0000006)	Bivalves 15/30 Fish 16/70 Birds 0/10	Bivalves 3/6 Fish 7/14 Birds 0/2	Bivalves 0.0000017～0.000051 Fish 0.00000087～0.0000019 Birds －	(Bivalves 0.00000084) (Fish 0.00000084) (Birds 0.00000084)	W.S. 34/35 C.S. 34/34	W.S. 34/35 C.S. 34/34	W.S. 0.000057～0.028 C.S. 0.000030～0.0069	(W.S. 0.0000077) (C.S. 0.0000077)					
			2004	33/38	33/38	0.0000006～0.000013	(0.0000004)	170/189	62/63	0.0000006～0.00039	(0.0000006)	Bivalves 16/31 Fish 5/70 Birds 0/10	Bivalves 4/7 Fish 2/14 Birds 0/2	Bivalves 0.0000016～0.000046 Fish 0.0000014～0.0000024 Birds －	(Bivalves 0.0000013) (Fish 0.0000013) (Birds 0.0000013)	W.S. 15/37 C.S. 14/37	W.S. 15/37 C.S. 14/37	W.S. 0.00030～0.014 C.S. 0.000089～0.013	(W.S. 0.00005) (C.S. 0.00005)					
			2005	32/47	32/47	0.0000001～0.0000057	(0.0000003)	173/189	62/63	0.0000005～0.00050	(0.0000005)	Bivalves 11/31 Fish 11/80 Birds 0/10	Bivalves 3/7 Fish 5/16 Birds 0/2	Bivalves 0.0000013～0.000084 Fish 0.0000012～0.0000064 Birds －	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 29/37 C.S. 9/37	W.S. 29/37 C.S. 9/37	W.S. 0.00021～0.010 C.S. 0.00015～0.0018	(W.S. 0.00003) (C.S. 0.00003)					
			2006	18/48	18/48	0.00000030～0.0000044	(0.0000006)	184/192	64/64	0.0000006～0.00033	(0.0000006)	Bivalves 11/31 Fish 2/80 Birds 0/10	Bivalves 3/7 Fish 2/16 Birds 0/2	Bivalves 0.000002～0.000019 Fish 0.000002 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 31/37 C.S. 16/37	W.S. 31/37 C.S. 16/37	W.S. 0.00007～0.0085 C.S. 0.00005～0.0011	(W.S. 0.00005) (C.S. 0.00005)					
			2007	34/48	34/48	0.0000003～0.0000095	(0.0000003)	172/192	60/64	0.0000006～0.00033	(0.0000006)	Bivalves 5/31 Fish 2/80 Birds 0/10	Bivalves 2/7 Fish 2/16 Birds 0/2	Bivalves 0.000002～0.000026 Fish 0.000002 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 35/36 C.S. 34/36	W.S. 35/36 C.S. 34/36	W.S. 0.00005～0.019 C.S. 0.00002～0.0021	(W.S. 0.00002) (C.S. 0.00002)					
			2008	26/48	26/48	0.00000008～0.000021	(0.0000006)	153/192	56/64	0.000001～0.00037	(0.000001)	Bivalves 5/31 Fish 1/85 Birds 0/10	Bivalves 3/7 Fish 1/17 Birds 0/2	Bivalves 0.000002～0.000020 Fish 0.000002 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 25/25 C.S. 22/25	W.S. 25/25 C.S. 22/25	W.S. 0.00002～0.0094 C.S. 0.00003～0.0013	(W.S. 0.00002) (C.S. 0.00002)					
			2009	32/49	32/49	0.0000004～0.000022	(0.0000003)	180/192	64/64	0.0000002～0.00054	(0.0000002)	Bivalves 16/31 Fish 22/90 Birds 0/10	Bivalves 6/7 Fish 7/18 Birds 0/2	Bivalves 0.0000008～0.000089 Fish 0.0000009～0.0000031 Birds －	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 10/25 C.S. 8/24	W.S. 10/25 C.S. 8/24	W.S. 0.00033～0.010 C.S. 0.00009～0.0018	(W.S. 0.00002) (C.S. 0.00002)					
			2014									Bivalves 0/3 Fish 4/19 Birds 0/2	Bivalves 0/3 Fish 4/19 Birds 0/2	Bivalves － Fish 0.0000008～0.0000024 Birds －	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	6/34	6/34	0.004～0.017	(0.004)					
			2018					50/61	50/61	0.0000008～0.00027	(0.0000006)													
601	6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin 3-oxides (synonym: Endosulfan or Benzoepin)	115-29-7	1982	0/39	0/13	－	(*alpha* -isomer 0.0040～0.025) (*beta*- isomer 0.014～0.06)	0/39	0/13	－	(*alpha* -isomer 0.00020～0.001) (*beta* -isomer 0.00070～0.003)													601
			(2011)	2/49	2/49	0.00012～0.00045	(0.000060*)	32/64	32/64	0.000016～0.00073	(0.000014*)	Bivalves 3/4 Fish 9/18 Birds 0/1	Bivalves 3/4 Fish 9/18 Birds 0/1	Bivalves 0.000024～0.00038 Fish 0.000024～0.00018 Birds －	(Bivalves 0.000024*) (Fish 0.000024*) (Birds 0.000024*)	W.S. 35/35 C.S. 34/37	W.S. 35/35 C.S. 34/37	W.S. 0.0080～0.20 C.S. 0.0052～0.053	(W.S. 0.0044*) (C.S. 0.0044*)					
			(2012)	2/48	2/48	0.000030～0.000032	(0.000019*)	12/63	12/63	0.00001～0.00069	(0.000010*)	Bivalves 4/5 Fish 8/19 Birds 1/2	Bivalves 4/5 Fish 8/19 Birds 1/2	Bivalves 0.000041～0.00023 Fish 0.000028～0.000057 Birds 0.000029	(Bivalves 0.000028*) (Fish 0.000028*) (Birds 0.000028*)	W.S. 36/36 C.S. 16/36	W.S. 36/36 C.S. 16/36	W.S. 0.0065～0.10 C.S. 0.0058～0.021	(W.S. 0.0057*) (C.S. 0.0057*)					
			(2014)									Bivalves 1/3 Fish 1/19 Birds 0/2	Bivalves 1/3 Fish 1/19 Birds 0/2	Bivalves 0.00016 Fish 0.00003～0.00003 Birds －	(Bivalves 0.00003*) (Fish 0.00003*) (Birds 0.00003*)	36/36	36/36	0.0026～0.095	(0.0007*)					
			(2015)									Bivalves 1/3 Fish 1/19 Birds 0/1	Bivalves 1/3 Fish 1/19 Birds 0/1	Bivalves 0.00016 Fish 0.000059 Birds －	(Bivalves 0.000049*) (Fish 0.000049*) (Birds 0.000049*)	35/35	35/35	0.0019～0.18	(0.0005*)					
			(2016)													37/37	37/37	0.0010～0.049	(0.0006*)					
			(2018)	1/47	1/47	0.00006	(0.00005*)	12/61	12/61	0.000004～0.000070	(0.000004*)													
			(2021)	12/47	12/47	0.00005～0.00083	(0.00005*)	33/60	33/60	0.0000016～0.00011	(0.0000015*)	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.00003*) (Fish 0.00003*) (Birds 0.00003*)	34/35	34/35	0.0005～0.0060	(0.0005*)					
601-1	6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin 3-oxide (*alpha* -isomer)	959-98-8	1992													0/55	0/18	－	(30)					601-1
			2011	2/49	2/49	0.00012～0.00018	(0.00005)	35/64	35/64	0.000011～0.00048	(0.000010)	Bivalves 3/4 Fish 10/18 Birds 0/1	Bivalves 3/4 Fish 10/18 Birds 0/1	Bivalves 0.00002～0.00033 Fish 0.00002～0.00014 Birds －	(Bivalves 0.00002) (Fish 0.00002) (Birds 0.00002)	W.S. 35/35 C.S. 35/37	W.S. 35/35 C.S. 35/37	W.S. 0.0078～0.19 C.S. 0.0041～0.045	(W.S. 0.0040) (C.S. 0.0040)					
			2012	3/48	3/48	0.000012～0.00003	(0.000010)	19/63	19/63	0.000005～0.00048	(0.000005)	Bivalves 4/5 Fish 6/19 Birds 0/2	Bivalves 4/5 Fish 6/19 Birds 0/2	Bivalves 0.000030～0.00020 Fish 0.000028～0.000054 Birds －	(Bivalves 0.000024) (Fish 0.000024) (Birds 0.000024)	W.S. 36/36 C.S. 15/36	W.S. 36/36 C.S. 15/36	W.S. 0.0060～0.098 C.S. 0.0065～0.019	(W.S. 0.0053) (C.S. 0.0053)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2014									Bivalves 1/3 Fish 1/19 Birds 0/2	Bivalves 1/3 Fish 1/19 Birds 0/2	Bivalves 0.00013 Fish 0.00003～0.00003 Birds －	(Bivalves 0.00002) (Fish 0.00002) (Birds 0.00002)	36/36	36/36	0.0026～0.090	(0.0003)					
			2015									Bivalves 1/3 Fish 1/19 Birds 0/1	Bivalves 1/3 Fish 1/19 Birds 0/1	Bivalves 0.00013 Fish 0.000049 Birds －	(Bivalves 0.000038) (Fish 0.000038) (Birds 0.000038)	35/35	35/35	0.0016～0.14	(0.0003)					
			2016													37/37	37/37	0.0010～0.046	(0.0003)					
			2018	1/47	1/47	0.00005	(0.00004)	21/61	21/61	0.000002～ 0.000030	(0.000002)													
			2021	17/47	17/47	0.00004～0.00058	(0.00004)	50/60	50/60	0.0000006～ 0.000053	(0.0000006)	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.00002) (Fish 0.00002) (Birds 0.00002)	35/35	35/35	0.0004～0.0060	(0.0002)					
601-2	6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin 3-oxide (*beta* -isomer)	33213-65-9	1992													0/55	0/18	－	(30)					601-2
			2011	8/49	8/49	0.000009～0.00027	(0.000009)	38/64	38/64	0.000004～ 0.00024	(0.000004)	Bivalves 4/4 Fish 9/18 Birds 0/1	Bivalves 4/4 Fish 9/18 Birds 0/1	Bivalves 0.000004～ 0.000052 Fish 0.000004～ 0.000037 Birds －	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 34/35 C.S. 31/37	W.S. 34/35 C.S. 31/37	W.S. 0.0005～ 0.011 C.S. 0.0004～ 0.0083	(W.S. 0.00039) (C.S. 0.00039)					
			2012	1/48	1/48	0.000012	(0.000009)	8/63	8/63	0.000011～ 0.00025	(0.000005)	Bivalves 4/5 Fish 6/19 Birds 1/2	Bivalves 4/5 Fish 6/19 Birds 1/2	Bivalves 0.000012～ 0.000043 Fish 0.000006～ 0.000015 Birds 0.000007	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	W.S. 33/36 C.S. 17/36	W.S. 33/36 C.S. 17/36	W.S. 0.0005～ 0.018 C.S. 0.0004～ 0.0017	(W.S. 0.0004) (C.S. 0.0004)					
			2014									Bivalves 1/3 Fish 3/19 Birds 1/2	Bivalves 1/3 Fish 3/19 Birds 1/2	Bivalves 0.000023 Fish 0.000006～ 0.000008 Birds 0.000008	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	33/36	33/36	0.0005～0.0061	(0.0004)					
			2015									Bivalves 1/3 Fish 1/19 Birds 0/1	Bivalves 1/3 Fish 1/19 Birds 0/1	Bivalves 0.000022 Fish 0.000011 Birds －	(Bivalves 0.000011) (Fish 0.000011) (Birds 0.000011)	33/35	33/35	0.0002～0.038	(0.0002)					
			2016													34/37	34/37	0.0003～0.0033	(0.0003)					
			2018	3/47	3/47	0.00001～0.00002	(0.00001)	11/61	11/61	0.000002～ 0.000041	(0.000002)													
			2021	11/47	11/47	0.00001～0.00025	(0.00001)	12/60	12/60	0.0000010～ 0.000057	(0.0000009)	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	5/35	5/35	0.0003～0.0005	(0.0003)					
602	Hexachlorophene	70-30-4	1981	0/33	0/11	－	(0.005～5)	33/33	11/11	0.005～0.42	(0.003)													602
			1982	0/126	0/42	－	(0.005)	45/126	18/42	0.006～0.500	(0.003)	Fish 0/126	Fish 0/36	Fish －	(Fish 0.003)									
			1996	0/33	0/11	－	(0.05)	0/33	0/11	－	(0.015)													
603	4,5,6,7,8,8-Hexachloro-3a,4,7,7a-tetrahydro-4,7-methano-1*H* -indene (synonym: gamma-Chlordene)	3734-48-3	1982	0/126	0/42	－	(0.005)	27/126	14/42	0.0002～0.0040	(0.0002～0.001)	Fish 37/113	Fish 16/35	Fish 0.001～0.021	(Fish 0.001)									603
			1986													9/73	4/12	0.50～1.8	(0.5)					
604	Hexadecyl(trimethyl)ammonium salt (as chloride)	112-02-7 etc.	2021	30/42	30/42	0.0014～0.012	(0.0013)																	604
605	Hexahydro-1*H* -azepine	111-49-9	1986	0/30	0/10	－	(5)	0/24	0/8	－	(0.03)													605
606	Hexahydro-1,3,5-trinitro-1,3,5-triazine (synonym: Cyclonite)	121-82-4	2006	0/15	0/5	－	(0.022)									0/15	0/5	－	(1.9)					606
607	Hexamethylenediamine	124-09-4	1987	0/87	0/29	－	(2)	0/87	0/29	－	(0.46)													607
			2016	1/16	1/16	2.7	(0.0043)									6/45	3/15	1.2～3.7	(0.91)					
			2023	7/30	7/30	0.0064～220	(0.0064)									2/57	1/19	10	(1.2)					
	Hexamethyleneimine	See Hexahydro-1*H* -azepine																						
	Hexamethylenetetramine	See 1,3,5,7-Tetraazatricyclo[3.3.1.1(3.7)]decane																						
608	*n* -Hexane	110-54-3	2004	0/60	0/20	－	(0.008)									52/53	18/18	140～44,000	(90)					608
			2018	1/25	1/25	0.012	(0.01)	0/63	0/21	－	(0.0011)													
609	4'-Hexyl[1,1'-biphenyl]-4-carbonitrile	41122-70-7	1985	0/27	0/9	－	(2)	0/27	0/9	－	(0.05)													609
	Hexylene glycol	See 2-Methyl-2,4-pentanediol																						
	4-(4-Hexylphenyl)benzonitrile	See 4'-Hexyl[1,1'-biphenyl]-4-carbonitrile																						
610	Hydrazine	302-01-2	1986	0/30	0/10	－	(2)	0/30	0/10	－	(0.2)													610
			2005	0/9	0/3	－	(0.0013)	14/17	6/6	0.00038～0.066	(0.00065)													
			2006									Bivalves & Fish 24/30	Bivalves & Fish 9/10	Bivalves & Fish 0.0013～0.095	(Bivalves & Fish 0.0012)					Food 146/178		Food 0.0095～0.80 ng/g-wet (Drinking water 0.77～2.7ng/L)	(Food 0.0066～0.0095) (Drinking water 0.68)	
			2015	20/21	20/21	0.0014～0.014	(0.00041)																	
			2018					51/51	20/20	0.00027～0.015	(0.0000096)					3/45	2/15	0.39～0.65	(0.33)					
611	Hydrazobenzene	122-66-7	1986	0/30	0/10	－	(0.6)	0/30	0/10	－	(0.3)													611
	Hydrochlorothiazide	See 6-Chloro-7-sulfamoyl-3,4-dihydrobenzo[*e*][1,2,4]-2*H* -thiadiazine 1,1-dioxide																						
612	Hydrogenated terphenyls	61788-32-7	1977	0/15	0/5	－	(10～20)	0/15	0/5	－	(0.5～2)													612
			(2006)									Bivalves & Fish 5/30	Bivalves & Fish 2/10	Bivalves & Fish 0.00010～0.00081	(Bivalves & Fish 0.00052*)									
			(2007)	11/39	6/13	0.000093～0.00075	(0.0013*)	24/33	9/11	0.000055～0.082	(0.00035*)													
612-1	Hydrogenated terphenyl（HT242a**）		2006									Bivalves & Fish 1/30	Bivalves & Fish 1/10	Bivalves & Fish 0.00018	(Bivalves & Fish 0.00008)									612-1
			2007	2/39	1/13	0.00019～0.00023	(0.00018)	18/33	8/11	0.000074～0.020	(0.000068)													
612-2	Hydrogenated terphenyl (HT242b**)		2006									Bivalves & Fish 1/30	Bivalves & Fish 1/10	Bivalves & Fish 0.00016	(Bivalves & Fish 0.00009)									612-2
			2007	5/39	3/13	0.00012～0.00019	(0.000093)	18/33	8/11	0.000072～0.0088	(0.000064)													
612-3	Hydrogenated terphenyl (HT242c**)		2006									Bivalves & Fish 0/30	Bivalves & Fish 0/10	Bivalves & Fish －	(Bivalves & Fish 0.00002)									612-3
			2007	0/39	0/13	－	(0.000050)	2/33	2/11	0.00043～0.00074	(0.000019)													

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
612-4	Hydrogenated terphenyl (HT242d**)		2006									Bivalves & Fish 0/30	Bivalves & Fish 0/10	Bivalves & Fish －	(Bivalves & Fish 0.00005)									612-4
			2007	0/39	0/13	－	(0.00065)	14/33	6/11	0.00018～0.0071	(0.000046)													
612-5	Hydrogenated terphenyl (HT263a**)		2006									Bivalves & Fish 5/30	Bivalves & Fish 2/10	Bivalves & Fish 0.00010～0.00034	(Bivalves & Fish 0.00010)									612-5
			2007	1/39	1/13	0.000074	(0.000056)	8/33	5/11	0.00018～0.0019	(0.000028)													
612-6	Hydrogenated terphenyl (HT263b**)		2006									Bivalves & Fish 1/30	Bivalves & Fish 1/10	Bivalves & Fish 0.00013	(Bivalves & Fish 0.00009)									612-6
			2007	3/39	3/13	0.00012～0.00017	(0.00011)	21/33	8/11	0.00017～0.023	(0.000086)													
612-7	Hydrogenated terphenyl (HT263c**)		2006									Bivalves & Fish 0/30	Bivalves & Fish 0/10	Bivalves & Fish －	(Bivalves & Fish 0.00009)									612-7
			2007	0/39	0/13	－	(0.00016)	15/33	6/11	0.000079～0.016	(0.000026)													
613	Hydroquinone	123-31-9	1996	0/168	0/56	－	(0.36)	36/164	17/55	0.018～0.76	(0.017)													613
			2009	69/69	23/23	0.0035～0.075	(0.0015)																	
	2-(2'-Hydroxy-3',5'-di-*tert*-butylphenyl)-5-chlorobenzotriazol	See Di-*tert*-butyl-6-(5-chloro-2*H*-benzotriazol-2-yl)phenol																						
614	16*alpha*-Hydroxyestradiol	50-27-1	2023	16/30	16/30	0.000055～0.00047	(0.000055)																	614
615	3-Hydroxyestra-1,3,5(10),7-tetraen-17-one (synonym: Equilin)	474-86-2	2013	0/16	0/16	－	(0.00017)																	615
616	17*beta*-Hydroxyestra-4,9,11-trien-3-one	10161-33-8	2012	0/16	0/16	－	(0.000017)																	616
617	(1-Hydroxyethane-1,1-diyl)diphosphonic acid and its solts	2809-21-4	2018	0/24	0/24	－	(3.3)																	617
618	2-Hydroxyethyl acrylate	818-61-1	2015													0/54	0/18	－	(58)					618
619	2-Hydroxyethyl methacrylate	868-77-9	1999	3/27	1/9	0.12～0.51	(0.025)	0/27	0/9	－	(0.0014)													619
620	2-Hydroxy-4-methoxybenzophenone (synonym: Benzophenone-3)	131-57-7	2021	11/26	11/26	0.00067～0.0044	(0.00067)																	620
621	2-Hydroxy-4-methoxybenzophenone-5-sulfonic acid	4065-45-6	2020	6/21	6/21	0.024～0.15	(0.016)																	621
622	3-Hydroxy-2-naphthanilide (synonym: Azoic CC-2 or Naphthol AS)		1984	0/24	0/8	－	(0.1～0.4)	0/24	0/8	－	(0.01 ～0.03)													622
	2-Hydroxy-3-naphthoic acid anilide	See 3-Hydroxy-2-naphthanilide																						
	(2-Hydroxy-3-naphthoyl)-3-chloro-4,6-dimethoxyanilide	See 5'-Chloro-3-hydroxy-2',4'-dimethoxy-2-naphthanilide																						
	(2-Hydroxy-3-naphthoyl)-4-chloro-2-methoxyanilide	See 4'-Chloro-3-hydroxy-2'-methyl-2-naphthanilide																						
	(2-Hydroxy-3-naphthoyl)-5-chloro-2-methoxyanilide	See 5'-Chloro-3-hydroxy-2'-methoxy-2-naphthanilide																						
	(2-Hydroxy-3-naphthoyl)-3-nitroanilide	See 3-Hydroxy-3'-nitro-2-naphthanilide																						
623	3-Hydroxy-3'-nitro-2-naphthanilide (synonym: Azoic CC-17)	135-65-9	1984	0/24	0/8	－	(0.1～0.4)	0/24	0/8	－	(0.01～0.03)													623
	4-Hydroxytamoxifen	See 4-[(*Z*)-1-[4-[2-(dimethylamino)ethoxy]phenyl]-2-phenyl-1-butenyl]phenol																						
	IBP	See *S*-Benzyl *O*,*O*-diisopropyl thiophosphate																						
624	Imazalil	35554-44-0	2020	0/21	0/21	－	(0.0039)																	624
625	2-Imidazolidinethione	96-45-7	1983	0/33	0/11	－	(0.8～40)	0/33	0/11	－	(0.02 ～0.51)													625
			1992	0/42	0/14	－	(0.2)	6/42	2/14	0.004～0.029	(0.004)													
			2016	0/15	0/15	－	(0.018)																	
	2-Imidazoline-2-thiol	See 2-Imidazolidinethione																						
	2,2'- Iminodiethanol	See Diethanolamine																						
	Indeno[1,2,3-*c*,*d*]pyrene	See Polycyclic aromatic hydrocarbons																						
626	Indium and its compounds (as Indium)	7440-74-6 etc.	2006	0/12	0/4	－	(0.0015)									15/15	5/5	0.011～0.55	(0.007)					626
627	Iodomethane	74-88-4	1980													4/27	3/6	20～66	(1～20)					627
628	3-Iodo-2-propynyl butylcarbamate	55406-53-6	2005	0/12	0/4	－	(0.080)																	628
629	Iopanoic acid	96-83-3	2010	0/48	0/16	－	(0.0096)																	629
	Iprobenphos	See *S*-Benzyl *O*,*O*-diisopropyl thiophosphate																						
630	Isobenzan	297-78-9	1974	0/60	0/12	－	(0.1)	0/60	0/12	－	(0.01)	Fish 0/60	Fish 0/12	Fish －	(Fish 0.005)									630
631	Isobutyl acetate	110-19-0	2000													29/44	12/15	73～710	(70)					631
			2006													9/21	4/7	95～570	(95)					
632	Isobutyl acrylate	106-63-8	2024	1/44	1/44	0.0043	(0.0011)																	632
633	Isobutyl alcohol	78-83-1	2008													23/63	11/21	170～900	(170)					633
			2011	15/25	15/25	0.067～0.29	(0.063)																	
634	Isobutyl formate	542-55-2	1981	0/9	0/3	－	(45)	0/9	0/3	－	(0.45)													634
635	Isobutyl 4-hydroxybenzoate	4247-02-3	2000	0/33	0/11	－	(0.023)	0/30	0/10	－	(2.3)	Fish 0/28	Fish 0/10	Fish －	(Fish 2.6)									635
	Isobutyl *p*-oxybenzoate	See Isobutyl 4-hydroxybenzoate																						
636	Isobutyraldehyde	78-84-2	2015													0/57	0/19	－	(2,200)					636
	Isobutyronitrile	See 2-Methylpropannitrile																						
637	Isochlortetracycline	514-53-4	2014	0/16	0/16	－	(0.0064)																	637
638	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9	2014													0/30	0/10	－	(2)					638
639	Isocyanuric acid	108-80-5	1983	0/30	0/10	－	(2～4)	0/30	0/10	－	(0.025～0.24)													639
			2019	16/30	16/30	0.62～7.8	(0.50)																	
640	Isooctyl acrylates	29590-42-9	2024	0/26	0/26	－	(0.072)																	640
641	Isononyl acrylates	51952-49-9	2024	0/40	0/40	－	(0.048)																	641
	Isophorone	See 3,5,5-Trimethyl-2-cyclohexen-1-one																						
642	Isophthalic acid	121-91-5	1983	0/24	0/8	－	(1～20)	0/24	0/8	－	(0.02～0.1)													642
643	Isophthalonitrile	626-17-5	1977	0/6	0/2	－	(1～5)	0/6	0/2	－	(0.1～1)													643
644	Isoprene	78-79-5	1978	0/12	0/4	－	(1)	0/12	0/4	－	(0.001～0.0039)													644
			2002	0/42	0/14	－	(0.1)	0/42	0/14	－	(0.010)													
			2003													15/15	5/5	88～1,300	(12)					
	Isoprocarb	See 2-Isopropylphenyl *N*-methylcarbamate																						
	Isopropanolamine	See 1-Amino-2-propanol																						
	Isopropenylbenzene	See *alpha*-Methylstyrene																						
	Isopropyl alcohol	See 2-Propanol																						
645	Isopropylamine	75-31-0	1980	0/27	0/9	－	(0.5～33)	0/27	0/9	－	(0.001～0.18)													645
			1981	0/27	0/9	－	(0.6～4)	0/27	0/9	－	(0.006～0.01)													
	Isopropylbenzene	See Cumene																						

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
646	3-Isopropyl-2,1,3-benzothiadiazine-4-one-2,2-dioxide (synonym: Bentazon)	25057-89-0	1992	1/75	1/25	6.7	(2)	0/75	0/25	—	(0.2)	Fish 0/72	Fish 0/24	Fish —	(Fish 0.15)									646
647	Isopropyl 4-hydroxybenzoate	4191-73-5	2000	0/33	0/11	—	(0.018)	0/33	0/11	—	(2.1)	Fish 0/28	Fish 0/10	Fish —	(Fish 1.6)									647
648	2,2'-[Isopropylidenebis[(2,6-dibromo-4,1-phenylene)oxy]]diethanol	4162-45-2	1986	2/30	1/10	0.02～0.04	(0.02)	0/30	0/10	—	(0.02)													648
			2005	0/15	0/5	—	(0.020)	0/27	0/9	—	(0.011)													
	4,4'-Isopropylidenediphenol	See 4,4'-Propane-2,2-diyldiphenol																						
649	2-Isopropylnaphthalene	2027-17-0	1984	0/18	0/6	—	(0.006～0.2)	1/18	1/6	0.021	(0.0004～0.012)													649
			1985	0/141	0/47	—	(0.2)	1/141	1/47	0.032	(0.03)	Fish 3/120	Fish 1/37	Fish 0.002	(Fish 0.002)									
	Isopropyl *p*-oxybenzoate	See Isopropyl 4-hydroxybenzoate																						
650	2-Isopropyloxyphenyl *N*-methylcarbamate (synonym: PHC)	114-26-1	1988	0/75	0/25	—	(0.3)	0/69	0/23	—	(0.0103)					0/72	0/12	—	(7.0)					650
			1994	0/39	0/13	—	(0.02)	0/39	0/13	—	(0.0033)	Fish 0/39	Fish 0/13	Fish —	(Fish 0.001)									
	o-Isopropyloxyphenyl *N*-methylcarbamate	See 2-Isopropylphenyl *N*-methylcarbamate																						
	2-Isopropylphenyl methylcarbamate	See 2-Isopropylphenyl *N*-methylcarbamate																						
651	2-Isopropylphenyl *N*-methyl carbamate (synonym: MIPC or Isoprocarb)	2631-40-5	1988	0/75	0/25	—	(0.3)	0/69	0/23	—	(0.0103)					0/72	0/12	—	(7.0)					651
	Isoprothiolane	See diisopropyl 1,3-dithiolan-2-ylidenemalonate																						
	Isoxathion	See *O*,*O*-Diethyl *O*-(5-phenyl-3-isoxazolyl) thiophosphate																						
652	Ivermectins																							652
652-1	Ivermectin B1a	70288-86-7	2021	15/35	15/35	0.000016～0.0046	(0.000015)																	652-1
652-2	Ivermectin B1ab	70209-81-3	2021	1/35	1/35	0.000079	(0.000013)																	652-2
653	Josamycin	16846-24-5	2014	0/17	0/17	—	(0.0055)																	653
	Kelthane	See 2,2,2-Trichloro-1,1-bis(4-chlorophenyl)ethanol																						
	Kepone	See Chlordecone																						
	Ketoprofen	See 2-(*m*-Benzoylphenyl)propionic acid																						
654	11-Ketotestosterone	564-35-2	2011	0/19	0/19	—	(0.000088)																	654
	Kitazin P	See *S*-Benzyl *O*,*O*-diisopropyl thiophosphate																						
	LAS	See Alkylbenzene sulfonetes (Linear alkylbenzene sulfonetes)																						
655	Lead and its compounds (as Lead)	7439-92-1 etc.	1978									Bivalves 10/10 Fish 0/30 Birds 6/6	Bivalves 2/2 Fish 0/6 Birds 1/1	Bivalves 0.09～0.22 Fish — Birds 0.32～0.44	(Fish 0.05)									655
			1979									Bivalves 15/15 Fish 0/40 Birds 6/6	Bivalves 3/3 Fish 0/8 Birds 1/1	Bivalves 0.10～0.30 Fish — Birds 0.21～0.54	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									
			1980									Birds 8/8	Birds 1/1	Birds 0.14～0.47	(Birds 0.05)									
656	Leucomycin A5	18361-45-0	2014	0/17	0/17	—	(0.0058)																	656
657	Levofloxacin	100986-85-4	2019	20/26	20/26	0.0008～0.54	(0.00044)																	657
658	Lincomycin	154-21-2	2014	5/17	5/17	0.0056～0.017	(0.005)																	658
	Lindane	See *gamma*-Hexachlorocyclohexane																						
	Linear alkylbenzene sulfonetes	See Alkylbenzene sulfonetes (Linear alkylbenzene sulfonetes)																						
	Linear decylbenzene sulphonates	See Alkylbenzene sulfonetes (Linear decylbenzene sulfonetes)																						
	Linear dodecylbenzene sulphonate	See Alkylbenzene sulfonetes (Linear dodecylbenzene sulfonetes)																						
	Linear tetradecylbenze nesulphonate	See Alkylbenzene sulfonetes (Linear tetradecylbenzene sulfonetes)																						
	Linear tridecylbenzene sulphonate	See Alkylbenzene sulfonetes (Linear tridecylbenzene sulfonetes)																						
	Linear undecylbenzene sulphonate	See Alkylbenzene sulfonetes (Linear undecylbenzene sulfonetes)																						
	Malachite green	See (4-{[4-(Dimethylamino)phenyl](phenyl)methylidene}cyclohexa-2,5-dien-1-ylidene)(dimethyl)ammonium chloride																						
	Malathion	See *O*,*O*-Dimethyl *S*-1,2 bis(ethoxycarbonyl)ethyl dithiophosphate																						
659	Maleic acid	110-16-7	1983	0/24	0/8	—	(1～50)	0/24	0/8	—	(0.05～0.25)													659
	Maneb	See *N*,*N*′- Ethylenebis(dithiocarbamamic acid) and its salts																						
660	Manganese and its compounds (as Manganese)	7439-96-5 etc.	1974	45/60	9/12	2～79	(5)	60/60	12/12	55～1,300		Bivalves 20/20 Fish 20/20	Bivalves 4/4 Fish 4/4	Bivalves 7.4～63 Fish 0.23～1.31										660
	Manzeb	See *N*,*N*′- Ethylenebis(dithiocarbamamic acid) and its salts																						
661	MCPPlankton (synonym: Mecoprop)	93-65-2	1996	0/33	0/11	—	(0.2)	0/33	0/11	—	(0.02)													661
	Mecoprop	See MCPP																						
	Mefenamic acid	See *N*-(2,3-Dimethylphenyl)anthranilic acid																						
662	Melamine	108-78-1	1986	21/30	7/10	0.1～1.6	(0.1)	2/30	1/10	0.088～0.13	(0.07)													662
			1987	89/150	33/50	0.1～7.6	(0.1)	36/117	18/40	0.01～0.32	(0.01)	Fish 13/144	Fish 3/45	Fish 0.06～0.55	(Fish 0.05)									
			1988									Fish 5/12	Fish 1/2	Fish 0.09～0.23	(Fish 0.05)									
			1994	43/150	23/51	0.11～6.4	(0.11)	29/160	12/54	0.015～0.40	(0.015)	Fish 12/148	Fish 5/49	Fish 0.020～0.075	(Fish 0.02)	12/39	7/13	2.0～55	(2)					
	MEP	See *O*,*O*-Dimethyl *O*-(3-methyl-4-nitrophenyl) thiophosphate																						
663	Mercaptoacetic acid	68-11-1	2007	9/15	3/5	0.0016～0.024	(0.0011)																	663
664	2-Mercaptobenzimidazole	583-39-1	1978	0/45	0/15	—	(0.25～50)	0/39	0/13	—	(0.017～2.5)													664
665	2-Mercaptobenzothiazole (synonym: 1,3-Benzothiazole-2-thiol)	149-30-4	1977	3/12	3/6	0.011～0.021	(0.1)	2/12	2/6	0.0021～0.037	(0.0009～0.02)													665
			1978	0/111	0/37	—	(0.01～24)	3/111	2/35	0.046～0.058	(0.002～1.2)	Fish 0/90	Fish 0/26	Fish —	(Fish 0.002～1)									
			2022	0/24	0/24	—	(0.0041)																	
	2-Mercaptoimidazoline	See 2-Imidazolidinethione																						
666	Mercury and its compounds (as Mercury)	7439-97-6 etc.	1978									Bivalves 7/10 Fish 28/30 Birds 6/6	Bivalves 2/2 Fish 6/6 Birds 1/1	Bivalves 0.01～0.02 Fish 0.01～0.86 Birds 0.04～0.12	(Bivalves 0.01) (Fish 0.01)									666
			1979									Bivalves 12/15 Fish 40/40 Birds 3/6	Bivalves 3/3 Fish 8/8 Birds 1/1	Bivalves 0.01～0.02 Fish 0.02～0.71 Birds 0.02	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1980									Birds 8/8	Birds 1/1	Birds 0.03～0.16	(Birds 0.01)									
	Mesitylene	See 1,3,5-Trimethylbenzene																						
	Mesityl oxide	See 4-Methyl-3-penten-2-one																						
	Metformin hydrochloride (as Metformin)	See *N*,*N*-Dimethylbiguanide hydrochloride (as *N*,*N*-Dimethylbiguanide)																						
667	Methacrylic acid	79-41-4	1987	0/75	0/25	—	(6)	0/75	0/25	—	(0.14)													667
			2002													6/27	3/9	1.1～4.6	(0.77)					
			2012	7/23	7/23	0.028～0.10	(0.028)																	
			2017													16/51	8/17	5.6～9.1	(5.4)					
668	Methacrylonitrile	126-98-7	1987	0/75	0/25	—	(0.7)	0/75	0/25	—	(0.014)					0/61	0/10	—	(40)					668
	Methanethiol	See Methyl mercaptan																						
669	Methanol	67-56-1	1995													14/18	5/6	3,100～49,000	(2,000)					669
	Methidathion	See *S*-(2,3-Dihydro-5-methoxy-2-oxo-1,3,4-thiadiazol-3-yl)methyl-*O*,*O*-dimethyl dithiophosphate																						
	Methomyl	See *S*-Methyl *N*-(methylcarbamoyloxy)thioacetimidate																						

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
	3-Methoxyaniline	See *m*-Anisidine																						
670	4-Methoxybenzaldehyde		2010	0/51	0/17	—	(0.014)																	670
671	2-Methoxy-4*H*-1,3,2-benzodioxaphosphorin-2-sulfide (synonym: salithion)	3811-49-2	1993													0/27	0/9	—	(2)					671
672	3-Methoxy-1-butanol	2517-43-3	1980	0/27	0/9	—	(2.5～10)	0/27	0/9	—	(0.025～0.6)													672
673	3-Methoxybutyl acetate	4435-53-4	1980	0/27	0/9	—	(2.5～10)	0/27	0/9	—	(0.025～0.8)													673
			1995	0/33	0/11	—	(0.2)																	
	Methoxybutyl acetate	See 3-Methoxybutyl acetate																						
674	Methoxychlor	72-43-5	1985	0/27	0/9	—	(0.01)	0/27	0/9	—	(0.02)													674
			2005	0/126	0/42	—	(0.0020)	1/105	1/35	0.0073	(0.0026)	Fish 0/27	Fish 0/9	Fish —	(Fish 0.0018)									
			2023	0/47	0/47	—	(0.00003)	0/60	0/60	—	(0.000004)													
			2024	0/47	0/47	—	(0.00004)	0/60	0/60	—	(0.000003)	Bivalves 0/3 Fish 0/16 Birds 0/2	Bivalves 0/3 Fish 0/16 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)									
	2-Methoxyethanol	See Ethylene grycol mono methyl ether																						
675	2-(2-(2-Methoxyethoxy)ethoxy)-ethanol	112-35-6	1988	0/75	0/25	—	(4.1)	0/75	0/25	—	(0.23)													675
676	2-Methoxyethyl acetate	110-49-6	1986	0/30	0/10	—	(0.7)	0/30	0/10	—	(0.2)													676
			2014													0/42	0/14	—	(20)					
			2017	0/18	0/18	—	(1.4)																	
677	9-Methoxy-7*H*-furo[3,2-*g*][1]benzopyran-7-one (synonym: Meladinine)	298-81-7	2006	0/42	0/14	—	(0.01)																	677
678	2-Methoxy-5-methylaniline	120-71-8	1985	0/27	0/9	—	(0.6)	0/27	0/9	—	(0.03)													678
			2005	6/24	4/8	0.037～0.057	(0.032)	0/18	0/6	—	(0.0060)													
			2018													0/42	0/14	—	(1.4)					
	1-Methoxy-2-nitrobenzene	See *o*-Nitroanisole																						
679	2-Methoxyphenol	90-05-1	1986	0/39	0/13	—	(0.2)	4/39	2/13	0.010～0.020	(0.01)													679
680	3-Methoxyphenol	150-19-6	1986	0/39	0/13	—	(0.2)	0/39	0/13	—	(0.01)													680
681	4-Methoxyphenol	150-76-5	1986	0/39	0/13	—	(0.2)	0/39	0/13	—	(0.01)													681
682	*N*-(4-Methoxyphenyl)-*p*-anisidine	101-70-2	1977	0/6	0/2	—	(2～5)	0/6	0/2	—	(1)													682
683	(*E*)-5-Methoxy-4'-(trifluoromethyl) valerophenone *O*-(2-aminoethyl)oxime	54739-18-3	2018	0/17	0/17	—	(0.034)																	683
684	Methyl acrylate	96-33-3	1980	0/51	0/17	—	(0.6～50)	0/51	0/17	—	(0.0083～0.12)													684
			2001													0/15	0/5	—	(0.6)					
			2012	2/22	2/22	0.010～8.9	(0.008)																	
			2024	1/44	1/44	0.0088	(0.0081)																	
685	Methylamine	74-89-5	1986	0/33	0/11	—	(2)	12/21	4/7	0.046～0.213	(0.04)													685
			2021													0/69	0/23	—	(79)					
686	*N*-Methylaniline	100-61-8	1976	0/68	0/20	—	(0.08～0.6)	11/68	4/20	0.002～0.012	(0.002～0.008)													686
			1990	3/69	1/23	0.038～0.093	(0.03)	4/66	2/22	0.0078～0.014	(0.007)	Fish 0/69	Fish 0/23	Fish —	(Fish 0.0027)	1/51	1/17	220	(150)					
			2005	0/21	0/7	—	(0.012)	0/27	0/9	—	(0.0012)	Bivalves 0/15 Fish 0/54	Bivalves 0/5 Fish 0/18	Bivalves — Fish —	(Bivalves 0.0014) (Fish 0.0014)									
687	4-Methylbenzenesulfonyl chloride	98-59-9	1977	0/6	0/2	—	(4～10)	0/6	0/2	—	(0.1～0.25)													687
688	Methyl benzoimidazol-2-ylcarbamate (synonym: Carbendazim)	10605-21-7	2011	25/26	25/26	0.00054～0.12	(0.00039)																	688
689	3-(4-Methylbenzylidene)-1,7,7-trimethylbicyclo[2.2.1]heptan-2one	36861-47-9	2013	0/17	0/17	—	(0.44)																	689
690	2-Methyl-1,1'-biphenyl-3-ylmethyl (*Z*)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropane carboxylate (synonym: Bifenthrin)	82657-04-3	2006													0/15	0/5	—	(0.3)					690
			2007	0/33	0/11	—	(0.0078)																	
	Methyl bromide	See Bromomethane																						
691	Methyl-*tert*-butyl ether (synonym: MTBE)	1634-04-4	1999													33/41	13/15	22～330	(20)					691
			2002	11/45	4/15	0.007～0.025	(0.006)	0/51	0/17	—	(0.00070)													
			2023	1/31	1/31	0.0075	(0.0035)																	
	Methyl chloride	See Chloromethane																						
692	Methyl 2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylates																							692
692-1	Methyl (*E*)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate	131860-33-8	2019	14/28	14/28	0.0012～0.10	(0.0011)																	692-1
692-2	Methyl (*Z*)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate	143130-94-3	2019	4/28	4/28	0.00039～0.00052	(0.00039)																	692-2
693	Methylcyclohexane	108-87-2	2023	1/26	1/26	0.026	(0.0018)																	693
	4-Methyl-2,6-di-*tert*-butylphenol	See 2,6-Di-*tert*-butyl-4-metylphenol																						
694	*N*-Methyldidecylamine	7396-58-9	2016	5/20	5/20	0.00091～0.0016	(0.00055)																	694
695	Methyl 2-(4,6-dimethoxy-2-pyrimidinyloxy)-6-[1-(methoxyimino)ethyl]benzoate (synonym: Pyriminobac methyl)	136191-64-5	(2006)	1/39	1/13	0.0025	(0.017*)									0/15	0/5	—	(1.0*)					695
695-1	Methyl (*Z*)-2-(4,6-dimethoxy-2-pyrimizinyloxy)-6-[1-(methoxyimino)ethyl]benzoate		2006	0/39	0/13	—	(0.007)									0/15	0/5	—	(0.5)					695-1
695-2	Methyl (*E*)-2-(4,6-dimethoxy-2-pyrimizinyloxy)-6-[1-(methoxyimino)ethyl]benzoate		2006	0/39	0/13	—	(0.010)									0/15	0/5	—	(0.5)					695-2
	Methyl-*N'*,*N'*-dimethyl-*N*-[(methylcarbamoyl)oxy]-1-thiooxamimidate	See *N'*,*N'*-Dimethylcarbamoyl(methylthio)methylenamine *N*-methylcarbamate																						
696	Methyl 3,3-dimethyl-4-pentenoate	63721-05-1	1994	0/102	0/34	—	(0.4)	0/102	0/34	—	(0.004)													696

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
697	Methyl dodecanoate	111-82-0	2013	9/22	9/22	0.0059～0.038	(0.0052)																	697
	4,4'-Methylenebis(2-chloroaniline)	See 4,4'-Diamino-3,3'-dichlorodiphenylmethane																						
698	Methylenebis(4,1-cyclohexylene) diioscyanate	5124-30-1	2008													0/15	0/5	—	(0.3)					698
			2010													0/63	0/21	—	(0.31)					
699	4,4'-Methylenebis(2,6-dichloroaniline)	25464-95-3	1985	0/30	0/10	—	(5)	0/24	0/8	—	(0.1)													699
700	4,4'-Methylenebis(*N*,*N*'-dimethylaniline)	101-61-1	1986	0/30	0/10	—	(2)	0/24	0/8	—	(0.05)													700
			2008	0/18	0/6	—	(0.0024)																	
701	4,4'-Methylenebis(2-methylcyclohexanamine)	6864-37-5	2009	0/30	0/10	—	(0.0024)																	701
702	Methylenebis(4,1-phenylene) diisocyanate	101-68-8	2016													0/42	0/14	—	(0.54)					702
	4,4'-Methylenedianiline	See 4,4'-Diaminodiphenylmethane																						
	Methylene dichloride	See Dichloromethane																						
	1-Methylethenylbenzene	See *alpha* -Methylstyrene																						
703	2-(1-methylethoxy)-ethanol	109-59-1	2006													4/21	3/7	20～30	(20)					703
704	Methyl ethyl ketone	78-93-3	1980	0/24	0/8	—	(3～8)	0/24	0/8	—	(0.15～0.4)													704
			1995	8/165	4/55	1.2～2.5	(1)	66/159	25/53	0.029～0.93	(0.028)					35/53	13/38	500～16,000	(500)					
			2015	20/20	20/20	0.050～1.3	(0.0081)																	
	Methyl ethyl ketone oxime	See Buta-2-non oxime																						
705	*N*-(1-Methylethyl)-2-propanamine	108-18-9	1981	0/27	0/9	—	(2)	0/27	0/9	—	(0.005～0.02)													705
706	Methyl formate	107-31-3	1981	0/9	0/3	—	(35)	0/9	0/3	—	(0.25)													706
707	6-Methylhepthyl 3-(3,5-di-*tert* -butyl-4-hydroxyphenyl)propionate	146598-26-7	2007	0/30	0/10	—	(0.040)																	707
708	Methylhydrazine	60-34-4	2007	0/15	0/5	—	(0.027)																	708
709	Methyl 4-hydroxybenzoate	99-76-3	2008	1/9	1/3	0.003	(0.002)																	709
			2009													0/18	0/6	—	(0.27)					
			2010					3/9	1/3	0.00050～0.00070	(0.00022)													
	Methyl isobutyl carbinol	See 4-Methyl-2-pentanol																						
710	Methyl isobutyl ketone	108-10-1	1980	0/24	0/8	—	(4～15)	0/24	0/8	—	(0.2～0.6)													710
			1995	0/33	0/11	—	(1.7)	0/33	0/11	—	(0.17)					10/51	5/17	1,100～3,800	(1,100)					
711	Methyl mercaptan	74-93-1	1992													0/51	0/17	—	(1,000)					711
712	Methyl methacrylate	80-62-6	1979	0/24	0/8	—	(0.005～1)	0/24	0/8	—	(0.00011～0.01)													712
			1999													3/18	1/6	28～170	(5.3)					
			2006	1/21	1/7	0.015	(0.008)																	
713	Methyl 3-(4-methoxy-6-methyl-1,3,5-triazin-2-ylcarbamonylsulfamoyl)-2-thenoate (synonym: Thifensulfuron-methyl)	79277-27-3	2006	0/21	0/7	—	(0.04)									0/15	0/5	—	(3)					713
714	*S*-Methyl *N*-(methylcarbamoyloxy) thioacetimidate (synonym: Methomyl)	16752-77-5	1992	0/33	0/11	—	(0.1)	0/33	0/11	—	(0.01)	Fish 0/33	Fish 0/11	Fish —	(Fish 0.005)									714
			2008	Summer 116/180 Autumn 16/99	Summer 16/20 Autumn 7/33	Summer 0.00040～0.036 Autumn 0.0030～0.0064	(Summer 0.00038) (Autumn 0.0030)																	
715	1-Methylnaphthalene	90-12-0	1976	0/28	0/7	—	(0.2～1)	0/28	0/7	—	(0.02～0.1)													715
			1984													65/72	12/12	1.9～280	(0.4～5)					
			1998													29/30	10/10	5.1～150	(2)					
			2010	23/93	9/31	0.0021～0.0050	(0.0018)																	
716	2-Methylnaphthalene	91-57-6	1976	0/28	0/7	—	(0.2～1)	0/28	0/7	—	(0.02～0.1)													716
			1984													66/72	12/12	2.6～530	(0.5～8)					
			1998													30/30	10/10	3.2～310	(1.7)					
			2010	23/93	9/31	0.0028～0.0099	(0.0028)																	
	2-Methyl-4-nitroaniline	See 4-Nitro-*o* -toludine																						
	4-Methyl-2-nitroaniline	See 2-Nitro-*p* -toluidine																						
717	3-Methyl-4-nitrophenol	2581-34-2	1984	0/21	0/7	—	(0.06～0.2)	0/21	0/7	—	(0.006～0.028)													717
			2005																	Indoor air (Car) 6/6		110～1,100ng/m^3	(0.06)	
718	2-Methyl-*N*-[4-nitro-3-(trifluoromethyl)phenyl]propanamide (synonym: Flutamide)	13311-84-7	2009	3/81	1/27	0.0026～0.0056	(0.000096)																	718
719	2-Methyl-2,4-pentanediol	107-41-5	1980	0/27	0/9	—	(2.5～30)	0/27	0/9	—	(0.025～1.4)													719
			1995	0/33	0/11	—	(0.2)	5/32	2/11	0.022～0.030	(0.0043)													
720	4-Methyl-2-pentanol	108-11-2	1980	0/27	0/9	—	(2.5～8)	0/27	0/9	—	(0.025～0.4)													720
	4-Methyl-2-pentanone	See Methyl isobutyl ketone																						
721	4-Methyl-3-penten-2-one	141-79-7	1980	0/24	0/8	—	(5～50)	0/24	0/8	—	(0.3～1.0)													721
	m -Methylphenol	See *m* -Cresol																						
722	2-Methyl-*m* -phenylenediamine	823-40-5	1990													0/51	0/17	—	(270)					722
723	2-Methyl-1,3-phenylene diisocyanate	91-08-7	2014													0/24	0/8	—	(0.33)					723
724	4-Methyl-1,3-phenylene diisocyanate	584-84-9	2014													2/27	1/9	0.92～1.3	(0.24)					724
725	2-Methylpiperidine	109-05-7	1986	0/30	0/10	—	(20)	0/24	0/8	—	(0.03)													725
726	2-Methylpropannitrile (synonym: Isobutyronitrile	78-82-0	1977	0/3	0/1	—	(1)	0/3	0/1	—	(0.2)													726
			1987	0/75	0/25	—	(0.7)	0/75	0/25	—	(0.006)					0/61	0/10	—	(200)					
	2-Methyl-2-propanol	See 2-Methylpropan-2-ol																						
727	2-Methylpropan-2-ol	75-65-0	1979	0/30	0/10	—	(100～1,000)	0/30	0/10	—	(1.0～10.0)													727
			1995	0/33	0/11	—	(2)	0/33	0/11	—	(0.21)					12/14	5/5	20～250	(20)					
			2013	23/23	23/23	0.059～2.3	(0.02)																	
	2-Methyl-2-propenenitrile	See Methacrylonitrile																						
728	2-Methylpropenoic acid 2,2-dimethyl-1-(1-methylethyl)-1,3-propanediyl ester	6846-50-0	1995	5/165	2/55	0.100～0.16	(0.1)	6/168	2/56	0.023～0.095	(0.02)	Fish 18/156	Fish 6/50	Fish 0.0063～0.044	(Fish 0.0062)									728
	2-Methylpropyl acetate	See Isobutyl acetate																						
729	2-(1-Methylpropyl)-4,6-dinitrophenol	88-85-7	2007													0/24	0/8	—	(3.2)					729
730	Methylpyridines																							730
	(Total 3-isommer and 4-isommer)	108-99-6 108-89-4	1986	0/30	0/10	—	(0.6)	6/30	2/10	0.0077～0.076	(0.007)													
			1987	3/93	1/31	0.2～0.81	(0.2)	64/94	23/33	0.0018～0.142	(0.0008)	Fish 59/97	Fish 23/33	Fish 0.001～0.169	(Fish 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
730-1	2-Methylpyridine	109-06-8	1986	0/30	0/10	—	(0.3)	7/30	4/10	0.0065～0.024	(0.005)													730-1
			1987	5/96	2/32	0.32～2.7	(0.2)	67/94	24/33	0.0012～0.108	(0.0008)	Fish 105/132	Fish 33/42	Fish 0.001～0.048	(Fish 0.001)									
			1994	19/162	8/54	0.10～2.4	(0.1)	103/147	41/52	0.0011～0.024	(0.0011)	Fish 106/152	Fish 37/50	Fish 0.002～0.0315	(Fish 0.002)	46/49	16/17	1～77	(1)					
730-2	3-Methylpyridine	108-99-6	1994	6/165	2/55	0.29～0.74	(0.2)	83/135	37/47	0.0012～0.038	(0.0012)	Fish 53/147	Fish 24/48	Fish 0.0020～0.012	(Fish 0.002)	45/49	16/17	1～39	(1)					730-2
			2008													0/21	0/7	—	(3.4)					
			2017	6/18	6/18	0.012～0.031	(0.012)																	
730-3	4-Methylpyridine	108-89-4	1994	11/159	5/53	0.14～0.78	(0.1)	91/128	37/44	0.0012～0.051	(0.0012)	Fish 57/141	Fish 25/46	Fish 0.0014～0.110	(Fish 0.0014)	38/48	16/17	1.0～16	(1)					730-3
	m -Methylstyrene	See Methylstyrenes (3-Methylstyrene)																						
	p -Methylstyrene	See Methylstyrenes (4-Methylstyrene)																						
731	Methylstyrenes																							731
	(Total *cis* -*beta* -isommer *o* -isommer and *p* -isommer)	611-15-4 622-97-9	2000													22/24	8/8	5.4～190	(4.8)					
731-1	*alpha* -Methylstyrene	98-83-9	1977	0/3	0/1	—	(4)	0/3	0/1	—	(0.01)													731-1
			1997	0/36	0/12	—	(0.3)	0/33	0/11	—	(0.0055)													
			2000													20/26	8/9	1.9～110	(1.9)					
			2005	0/12	0/4	—	(0.009)																	
			2006					0/15	0/5	—	(0.0007)													
731-2	*beta* -Methylstyrene	637-50-3	1977	0/3	0/1	—	(4)	0/3	0/1	—	(0.01)													731-2
731-2-1	*trans* -*beta* -Methylstyrene	873-66-5	2000													19/27	8/9	2.4～22	(1.6)					731-2-1
731-3	3-Methylstyrene	100-80-1	1977	0/3	0/1	—	(4)	0/3	0/1	—	(0.01)													731-3
			2000													21/26	7/9	2.6～190	(1.5)					
731-4	4-Methylstyrene	622-97-9	1977	0/3	0/1	—	(4)	0/3	0/1	—	(0.01)													731-4
	Metolcarb	See *m* -Tolyl methylcarbamate																						
	Metribuzin	See 4-Amino-6-*tert* -butyl-3-methylthio-1,2,4-triazin-5(4*H*)-one																						
	Metribuzin-desamino	See 6-*tert* -Butyl-3-methylthio-1,2,4-triazin-5(4*H*)- one																						
	Metribuzin-desamino-diketo	See 6-*tert* -Butyl-1,2,4-triazine-3,5(2*H* ,4*H*)-dione																						
	Metribuzin-diketo	See 4-Amino-6-*tert* -butyl-2*H* -1,2,4-triazine-3,5-dione																						
	Miconazole	See 1-{2-[(2,4-Dichlorobenzyl)oxy]-2-(2,4-dichlorophenyl)ethyl}-1*H* -imidazole																						
	MIPC	See 2-Isopropylphenyl *N* -methylcarbamate																						
732	Mirex	2385-85-5	1983	0/27	0/9	—	(0.01)	0/27	0/9	—	(0.0006～0.0024)													732
			2003	25/36	25/36	0.00000009～0.0000008	(0.00000009)	137/186	51/62	0.0000004～0.0015	(0.0000004)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000016～0.000019 Fish 0.0000017～0.000025 Birds 0.000031～0.00045	(Bivalves 0.00000081) (Fish 0.00000081) (Birds 0.00000081)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.000047～0.00019 C.S. 0.000024～0.000099	(W.S. 0.0000028) (C.S. 0.0000028)					
			2004	18/38	18/38	0.0000002～0.0000011	(0.0000002)	153/189	55/63	0.0000005～0.00022	(0.0000005)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.0000011～0.000012 Fish 0.0000038～0.00018 Birds 0.000033～0.00011	(Bivalves 0.00000082) (Fish 0.00000082) (Birds 0.00000082)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000042～0.00016 C.S. 0.000019～0.00023	(W.S. 0.000017) (C.S. 0.000017)					
			2005	14/47	14/47	0.00000007～0.0000010	(0.0000001)	134/189	48/63	0.0000003～0.0053	(0.0000003)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000019～0.000020 Fish 0.0000010～0.000078 Birds 0.000041～0.00018	(Bivalves 0.00000099) (Fish 0.00000099) (Birds 0.00000099)	W.S. 37/37 C.S. 29/37	W.S. 37/37 C.S. 29/37	W.S. 0.00005～0.00024 C.S. 0.00003～0.00008	(W.S. 0.00003) (C.S. 0.00003)					
			2006	1/48	1/48	0.00000007	(0.0000005)	156/192	57/64	0.0000002～0.00064	(0.0000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000002～0.000019 Fish 0.000002～0.000053 Birds 0.000039～0.00028	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 29/37 C.S. 27/37	W.S. 29/37 C.S. 27/37	W.S. 0.00005～0.00022 C.S. 0.00004～0.0021	(W.S. 0.00004) (C.S. 0.00004)					
			2007	2/48	2/48	0.0000004～0.0000005	(0.0000004)	147/192	55/64	0.0000003～0.00020	(0.0000003)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000002～0.000018 Fish 0.000001～0.000036 Birds 0.000032～0.00010	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00004～0.00028 C.S. 0.00002～0.00009	(W.S. 0.00001) (C.S. 0.00001)					
			2008	4/48	4/48	0.00000005～0.0000007	(0.0000002)	117/192	48/64	0.0000004～0.00082	(0.0000003)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000002～0.000018 Fish 0.000001～0.000048 Birds 0.000027～0.00026	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00003～0.00025 C.S. 0.00003～0.00008	(W.S. 0.00001) (C.S. 0.00001)					
			2009	8/49	8/49	0.0000002～0.0000005	(0.0000002)	126/192	49/64	0.0000004～0.00062	(0.0000004)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.0000017～0.000021 Fish 0.0000009～0.000037 Birds 0.000032～0.000079	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000049～0.00048 C.S. 0.000030～0.00018	(W.S. 0.000006) (C.S. 0.000006)					
			2011	3/49	3/49	0.0000003～0.0000008	(0.0000002)	42/64	42/64	0.0000004～0.0019	(0.0000004)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.0000052～0.000044 Fish 0.0000013～0.000041 Birds 0.000058	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.00008～0.00025 C.S. 0.00003～0.00011	(W.S. 0.00001) (C.S. 0.00001)					
			2018	3/47	3/47	0.0000004～0.0000010	(0.0000003)	44/61	44/61	0.0000003～0.00024	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000018～0.000020 Fish 0.0000019～0.000070 Birds 0.000047～0.00026	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	37/37	37/37	0.00005～0.00020	(0.00001)					
	MNCB	See 1-Chloro-3-nitrobenzene																						
	Molinate	See *S* -Ethyl hexahydro-1*H* -azepine-1-carbothioate																						
	Monobutylnaphthalenesulphonic acid	See Butylnaphthalenesulphonate																						

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
	Monochloroacetic acid	See Chloroacetic acid																						
	Monochloroethane	See Chloroethane																						
	Monoethanolamine	See 2-Aminoethanol																						
	Mono(*alpha*-methylbenzyl)phenol	See *p*-(1-Phenylethyl)phenol																						
733	Morpholine	110-91-8	1979	0/33	0/11	—	(1～50)	0/33	0/11	—	(0.01～0.5)													733
			1994	9/48	4/16	0.28～2.51	(0.28)	25/45	10/15	0.0024～0.051	(0.0024)	Fish 0/48	Fish 0/16	Fish —	(Fish 0.03)	0/51	0/17	—	(20)					
			2014	4/21	4/21	0.087～0.3	(0.084)																	
734	2-(Morpholinothio)benzothiazole	102-77-2	1977	0/12	0/6	—	(0.02～0.04)	0/12	0/6	—	(0.0012～0.01)													734
	MPP	See *O*,*O*-Dimethyl *O*-(3-methyl-4-methylthiophenyl) thiophosphate																						
	MTBE	See Methyl-*tert*-butyl ether																						
	MTMC	See *m*-Tolyl methylcarbamate																						
	NAC	See 1-Naphtyl *N*-methylcarbamate																						
	Naled	See 1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate																						
	Naphthalene	See Polycyclic aromatic hydrocarbons																						
735	2-Naphthalenesulfonic acid polymer with formaldehyde	26353-67-3	1979	0/21	0/7	—	(10～100)	0/27	0/9	—	(0.2～30)													735
	beta-Naphthalenesulfonic acid, polymer with formalin	See 2-Naphthalenesulfonic acid, polymer with formaldehyde																						
736	1-Naphthol	90-15-3	1977	0/6	0/2	—	(0.4～4.5)	0/6	0/2	—	(0.04～0.29)													736
			1999	14/30	5/10	0.005～0.049	(0.005)	3/36	1/12	0.033～0.11	(0.0078)	Fish 1/33	Fish 1/11	Fish 0.0096	(Fish 0.0031)									
			2008	155/180	20/20	0.00036～0.0093	(0.00035)																	
			2017	3/20	3/20	0.0026～0.0027	(0.0026)																	
	2-Naphthol	See *beta*-Naphthol																						
737	*beta*-Naphthol	135-19-3	1977	0/6	0/2	—	(0.4～6)	0/6	0/2	—	(0.04～0.39)													737
			1999	0/36	0/12	—	(0.009)	0/36	0/12	—	(0.0068)	Fish 1/33	Fish 1/11	Fish 0.014	(Fish 0.0051)									
			2017	2/20	2/20	0.0029～0.21	(0.0023)																	
	Naphthol AS	See 3-Hydroxy-2-naphthanilide																						
738	1,4-Naphthoquinone	130-15-4	1985	0/30	0/10	—	(4)	0/30	0/10	—	(0.05)													738
	1-Naphthylacetic acid	See 2-(1-Naphthyl)acetic acid																						
739	2-(1-Naphthyl)acetic acid	86-87-3	1984	0/27	0/9	—	(0.02～0.05)	0/27	0/9	—	(0.002～0.0063)													739
740	2-Naphthylamine	91-59-8	1983	0/48	0/16	—	(0.02～0.1)	5/48	3/16	0.0017～0.0079	(0.0015～0.04)													740
			1985					6/147	2/49	0.0023～0.051	(0.002)													
			2018													0/42	0/14	—	(0.85)					
741	*N*-2-Naphthylaniline	135-88-6	1976	0/50	0/13	—	(3～40)	0/40	0/11	—	(0.13～0.8)	Fish 0/20	Fish 0/4	Fish —	(Fish 0.3～1.0)									741
			1980	0/36	0/12	—	(0.025～0.1)	10/36	4/12	0.0045～0.042	(0.0013～0.02)													
			1981	0/126	0/42	—	(0.1)	27/126	12/42	0.005～0.074	(0.005)	Fish 0/123	Fish 0/36	Fish —	(Fish 0.005)									
742	1-Naphthylnamine	134-32-7	1976	0/60	0/18	—	(0.1～0.7)	7/60	4/18	0.007～0.046	(0.003～0.01)													742
			1979	0/111	0/37	—	(0.014～5)	3/111	1/37	0.0050～0.0055	(0.0004～0.01)	Fish 0/93	Fish 0/27	Fish —	(Fish 0.0007～0.05)									
			1985					0/147	0/49	—	(0.002)													
743	2-(2-Naphthyloxy)propionanilide (synonym: Naproanilide)	52570-16-8	2008	0/9	0/3	—	(0.00077)																	743
	1-Naphtyl methylcarbamate	See 1-Naphtyl *N*-methylcarbamate																						
744	1-Naphtyl *N*-methylcarbamate (synonym: Carbaryl)	63-25-2	1983	0/36	0/12	—	(0.05～0.06)	0/36	0/12	—	(0.002～0.013)													744
			1988	0/69	0/23	—	(0.18)	0/69	0/23	—	(0.0205)					0/72	0/12	—	(7.0)					
			2005	0/9	0/1	—	(0.014)					Fish 0/3	Fish 0/1	Fish —	(Fish 0.0013)									
			2008	Summer 157/180 Autumn 0/96	Summer 19/20 Autumn 0/32	Summer 0.000012～0.0099 Autumn —	(Summer 0.000011) (Autumn 0.00053)																	
	Naproanilide	See 2-(2-Naphthyloxy)propionanilide																						
	Neopentyl glycol	See 2,2-Dimethyl-1,3-propanediol																						
745	Nereistoxin	1631-58-9	1993	0/30	0/10	—	(0.2)	0/30	0/10	—	(0.024)	Fish 0/30	Fish 0/10	Fish —	(Fish 0.01)									745
746	Nickel and its compounds (as Nickel)	7440-02-0 etc.	1974	17/60	5/12	1～11	(5～13)	59/59	12/12	1.56～35		Bivalves 30/35 Fish 21/25	Bivalves 7/7 Fish 5/5	Bivalves 0.001～3.1 Fish 0.037～0.24	(Bivalves 0.5) (Fish 0.05)									746
			1978									Bivalves 10/10 Fish 0/30 Birds 6/6	Bivalves 2/2 Fish 0/6 Birds 1/1	Bivalves 0.07～0.76 Fish — Birds 0.13～0.20	(Fish 0.05)									
			1979									Bivalves 15/15 Fish 0/40 Birds 0/6	Bivalves 3/3 Fish 0/8 Birds 0/1	Bivalves 0.05～0.68 Fish — Birds —	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									
			1980									Birds 0/8	Birds 0/1	Birds —	(Birds 0.05)									
747	Nitrilotriacetic acid	139-13-9	1980	2/36	1/12	1	(1)	3/36	1/12	0.011～0.013	(0.005～0.02)													747
			1994	1/21	1/7	5	(5)	0/21	0/7	—	(0.2)	Fish 0/18	Fish 0/6	Fish —	(Fish 0.5)									
			2017	26/26	26/26	0.05～4.5	(0.031)																	
748	1,1',1"-Nitrilotri-2-propanol	122-20-3	1981	0/24	0/8	—	(10～20)	0/24	0/8	—	(0.08～0.1)													748
749	3-Nitroacenaphthene	3807-77-0	1984	0/21	0/7	—	(0.007～0.02)	0/21	0/7	—	(0.002～0.0071)													749
	5-Nitroacenaphthene	See 1,2-Dihydro-5-nitroacenaphthylene																						
	2-Nitroaniline	See *o*-Nitroaniline																						
	3-Nitroaniline	See *m*-Nitroaniline																						
	4-Nitroaniline	See *p*-Nitroaniline																						
750	*o*-Nitroaniline	88-74-4	1978	0/24	0/8	—	(0.2～0.5)	0/15	0/5	—	(0.007～0.0167)													750
			1990	0/69	0/23	—	(0.19)	0/75	0/25	—	(0.04)	Fish 0/72	Fish 0/24	Fish —	(Fish 0.014)									
			2007	0/24	0/8	—	(0.0011)																	
			2008					3/45	2/15	0.00010～0.00022	(0.00010)					0/42	0/14	—	(0.32)					
751	*m*-Nitroaniline	99-09-2	1978	0/24	0/8	—	(0.3～1)	0/15	0/5	—	(0.01～0.0333)													751
			2007	0/21	0/7	—	(0.0022)																	
			2008					0/22	0/10	—	(0.00022)													
			2009													0/24	0/8	—	(0.27)					
752	*p*-Nitroaniline	100-01-6	1978	0/24	0/8	—	(0.7～1)	0/15	0/5	—	(0.02～0.0333)													752
			1990	0/66	0/22	—	(1.5)	0/66	0/22	—	(0.18)	Fish 0/63	Fish 0/21	Fish —	(Fish 0.062)									
			2005	0/18	0/6	—	(0.053)																	
	2-Nitroanisole	See *o*-Nitroanisole																						
	3-Nitroanisole	See *m*-Nitroanisole																						
	4-Nitroanisole	See *p*-Nitroanisole																						

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
753	*o* -Nitroanisole	91-23-6	1976	3/70	3/48	0.035～0.69	(0.025～0.4)	1/58	1/44	0.010	(0.001～0.01)	Fish 0/10	Fish 0/2	Fish －	(Fish 0.002)									753
			1991	0/57	0/19	－	(0.37)	1/51	1/17	0.027	(0.016)	Fish 2/57	Fish 1/19	Fish 0.016 ～ 0.018	(Fish 0.015)									
			2008													0/60	0/20	－	(1.4)					
			2009	0/81	0/27	－	(0.010)																	
754	*m* -Nitroanisole	555-03-3	1976	5/62	5/46	0.1～1.6	(0.05～0.1)	1/50	1/42	0.015	(0.003～0.004)	Fish 0/10	Fish 0/2	Fish －	(Fish 0.004)									754
755	*p* -Nitroanisole	100-17-4	1976	0/70	0/48	－	(0.08～0.2)	0/59	0/45	－	(0.006～0.02)	Fish 1/10	Fish 1/2	Fish 0.013	(Fish 0.006)									755
			1991	0/57	0/19	－	(0.25)	0/57	0/19	－	(0.015)													
756	Nitrobenzene	98-95-3	1976	27/70	27/48	0.1～1.4	(0.03～0.4)	15/47	8/33	0.005～1.9	(0.002 ～0.0035)	Fish 10/10	Fish 2/2	Fish 0.003～0.58										756
			1977	22/115	10/39	0.13～3.8	(0.1～30)	19/117	9/39	0.009～1.5	(0.001～1)	Fish 9/85	Fish 2/29	Fish 0.003～0.005	(Fish 0.001～0.2)									
			1986													1/73	1/12	140	(100)					
			1991	1/153	1/51	0.17	(0.15)	2/162	1/54	0.047 ～0.07	(0.023)	Fish 4/147	Fish 2/49	Fish 0.011 ～0.026	(Fish 0.0087)	42/49	16/17	2.2 ～160	(2)					
			2001	5/147	2/49	0.046～0.51	(0.037)	6/144	3/48	0.0014～0.0023	(0.0014)													
			2002	6/54	2/18	0.12～0.23	(0.037)	3/51	1/17	0.0016～0.0018	(0.0014)					15/18	5/6	1.4 ～14	(0.7)					
			2017													9/66	3/22	6～140	(5.4)					
757	5-Nitrobenzimidazole	94-52-0	1985	0/30	0/10	－	(0.7)	0/30	0/10	－	(0.2)													757
758	3-Nitrobenzoic acid	121-92-6	1985	0/33	0/11	－	(10)	0/33	0/11	－	(0.05)													758
	m -Nitrobenzoic acid	See 3-Nitrobenzoic acid																						
	2-Nitrochlorobenzene	See 2-Chloronitrobenzene																						
	3-Nitrochlorobenzene	See 3-Chloronitrobenzene																						
	4-Nitrochlorobenzene	See 4-Chloronitrobenzene																						
	4-Nitrochlorobenzenesulfonic acid	See 2-Chloro-5-nitrobenzenesulphonic acid																						
759	6-Nitrochrysene	7496-02-8	2021	0/44	0/44	－	(0.001)	0/113	0/39	－	(0.0082)					0/69	0/23	－	(0.019)					759
760	2-Nitro-*p* -cresol	119-33-5	1984	0/21	0/7	－	(0.1～0.3)	0/21	0/7	－	(0.01～0.054)													760
761	3-Nitro-*p* -cresol	2042-14-0	1984	0/21	0/7	－	(0.06～0.2)	0/21	0/7	－	(0.006～0.030)													761
762	5-Nitro-*o* -cresol	5428-54-6	1984	0/21	0/7	－	(0.08～0.2)	0/21	0/7	－	(0.008～0.039)													762
	Nitro-*p* -dichlorobenzene	See 1,4-Dichloro-2-nitrobenzene																						
763	Nitroethane	79-24-3	1986	0/27	0/9	－	(3)	0/27	0/9	－	(0.09)													763
764	Nitrofen (synonym: NIP)	1836-75-5	1982	3/54	2/18	0.005～0.027	(0.001～0.2)	0/54	0/18	－	(0.0001～0.009)													764
			2005					0/105	0/35	－	(0.0041)													
			2006													0/18	0/6	－	(0.7)					
765	3-Nitrofluoranthene	892-21-7	1990	0/159	0/53	－	(0.2)	0/159	0/53	－	(0.04)	Fish 0/144	Fish 0/48	Fish －	(Fish 0.05)	10/42	4/14	0.013～0.19	(0.012)					765
766	Nitromethane	75-52-5	1986	0/27	0/9	－	(1)	0/27	0/9	－	(0.06)													766
			2009													21/21	7/7	22～120	(0.31)					
	2-Nitro-4-methylphenol	See 2-Nitro-*p* -cresol																						
	3-Nitro-4-methylphenol	See 3-Nitro-*p* -cresol																						
	4-Nitro-3-methylphenol	See 3-Methyl-4-nitrophenol																						
	5-Nitro-2-methylphenol	See 5-Nitro-*o* -cresol																						
767	1-Nitronaphthalene	86-57-7	1980	0/33	0/7	－	(0.002～0.05)	0/33	0/7	－	(0.000040 ～0.0013)													767
	alpha -Nitronaphthalene	See 1-Nitronaphthalene																						
768	2-Nitrophenol	88-75-5	1978	0/30	0/10	－	(0.4～10)	0/30	0/10	－	(0.03～0.5)													768
			1979	0/111	0/37	－	(0.1～5)	0/111	0/37	－	(0.01～0.76)	Fish 0/93	Fish 0/27	Fish －	(Fish 0.01～0.3)									
			1994	0/36	0/12	－	(0.26)	0/36	0/12	－	(0.0026)	Fish 1/36	Fish 1/12	Fish 0.0084	(Fish 0.005)	22/27	9/9	1～140	(1)					
	o -Nitrophenol	See 2-Nitrophenol																						
769	*m* -Nitrophenol	554-84-7	1978	0/30	0/10	－	(0.08～10)	0/30	0/10	－	(0.006～0.5)													769
			1979	0/111	0/37	－	(0.04～5)	0/111	0/37	－	(0.002～0.2)	Fish 0/93	Fish 0/31	Fish －	(Fish 0.01～0.2)									
			1994	0/36	0/12	－	(0.4)	0/36	0/12	－	(0.0047)	Fish 0/36	Fish 0/12	Fish －	(Fish 0.01)	0/27	0/9	－	(8)					
770	*p* -Nitrophenol	100-02-7	1978	1/30	1/10	0.13	(0.08～10)	0/30	0/10	－	(0.02～0.5)													770
			1979	0/111	0/37	－	(0.04～5)	0/111	0/37	－	(0.002～0.3)	Fish 0/93	Fish 0/27	Fish －	(Fish 0.01～0.2)									
			1994	0/36	0/12	－	(0.6)	0/36	0/12	－	(0.0052)	Fish 0/36	Fish 0/12	Fish －	(Fish 0.005)	27/27	9/9	1～71	(1)					
			2016	14/15	14/15	0.0061～0.24	(0.0046)																	
771	1-Nitropropane	108-03-2	1979	0/18	0/6	－	(50～200)	0/18	0/6	－	(0.3～1.0)													771
			1986	0/27	0/9	－	(3)	0/27	0/9	－	(0.4)													
772	2-Nitropropane	79-46-9	1979	0/18	0/6	－	(50～200)	0/18	0/6	－	(0.3～1.0)													772
			1986	0/27	0/9	－	(3)	0/27	0/9	－	(0.2)													
773	1-Nitropyrene	5522-43-0	1990	0/159	0/53	－	(0.2)	0/159	0/53	－	(0.022)	Fish 0/147	Fish 0/49	Fish －	(Fish 0.068)	38/46	14/46	0.0014～0.15	(0.001)					773
			2017	0/22	0/22	－	(0.00018)									0/39	0/13	－	(0.00011)					
774	*N* -Nitrosodi-*n* -butylamine	924-16-3	1989	0/33	0/33	－	(0.01)	0/33	0/33	－	(0.0001)	Bivalves 0/1 Fish 1/32	Bivalves 0/1 Fish 1/32	Bivalves － Fish 0.0001	(Bivalves 0.0001) (Fish 0.0001)									774
775	*N* -Nitrosodiethylamine	55-18-5	1981	0/36	0/12	－	(0.3～1)	0/36	0/12	－	(0.02～0.05)													775
			1989	0/33	0/33	－	(0.01)	0/33	0/33	－	(0.0001)	Bivalves 0/1 Fish 4/32	Bivalves 0/1 Fish 4/32	Bivalves － Fish 0.0001～0.0004	(Bivalves 0.0001) (Fish 0.0001)									
			2019	25/25	25/25	0.000037～0.0016	(0.000026)									55/57	19/19	0.071～19	(0.058)					
776	*N* -Nitrosodimethylamine	62-75-9	1981	0/36	0/12	－	(0.2～2)	0/36	0/12	－	(0.01～0.05)													776
			1989	1/33	1/33	0.02	(0.01)	30/33	30/33	0.0001～0.0077	(0.0001)	Bivalves 0/1 Fish 1/32	Bivalves 0/1 Fish 1/32	Bivalves － Fish 0.0007	(Bivalves 0.0005) (Fish 0.0005)									
			2015													36/36	12/12	0.17～380	(0.017)					
			2019	26/26	26/26	0.00012～0.0081	(0.000024)									57/57	19/19	0.087～2.9	(0.0075)					
	4-Nitrosodiphenylamine	See 4-Nitroso-*N* -phenylaniline																						
777	*N* -Nitrosodiphenylamine	86-30-6	1990	2/81	1/27	0.5～0.9	(0.3)	0/81	0/27	－	(0.06)	Fish 1/51	Fish 1/17	Fish 0.002	(Fish 0.002)									777
			2005	0/12	0/4	－	(0.0032)																	
778	*N* -Nitrosodi-*n* -propylamine	621-64-7	1989	0/33	0/33	－	(0.01)	0/33	0/33	－	(0.0001)	Bivalves 0/1 Fish 1/32	Bivalves 0/1 Fish 1/32	Bivalves － Fish 0.0001	(Bivalves 0.0001) (Fish 0.0001)									778
779	2,2'-(Nitrosoimino)bisethanol	1116-54-7	1994													0/30	0/10	－	(220)					779
	N -(Nitrosoimino)bisethanol	See 2,2'-(Nitrosoimino)bisethanol																						
780	4-Nitroso-N-phenylaniline	156-10-5	1977	0/6	0/2	－	(1～5)	0/6	0/2	－	(0.25～1)													780
	2-Nitrotoluene	See *o* -Nitrotoluene																						
	3-Nitrotoluene	See *m* -Nitrotoluene																						
	4-Nitrotoluene	See *p* -Nitrotoluene」																						
781	*o* -Nitrotoluene	88-72-2	1976	3/70	3/48	0.15～0.79	(0.03～0.2)	16/50	10/36	0.0034～0.14	(0.0002～0.002)	Fish 0/10	Fish 0/2	Fish －	(Fish 0.002)									781
			1986													1/73	1/12	44	(20)					
			1991	0/57	0/19	－	(0.2)	0/57	0/19	－	(0.031)	Fish 0/57	Fish 0/19	Fish －	(Fish 0.0075)	2/54	1/18	130～200	(70)					
			2008													3/24	1/8	23～31	(0.2)					
			2010					0/27	0/9	－	(0.00062)													

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
782	*m* -Nitrotoluene	99-08-1	1976	3/70	3/48	0.35～0.86	(0.05～0.2)	2/50	2/36	0.014～0.019	(0.004～0.01)	Fish 0/10	Fish 0/2	Fish －	(Fish 0.004)									782
			1986													0/73	0/12	－	(20)					
			1991	0/57	0/19	－	(0.2)	0/57	0/19	－	(0.017)	Fish 0/57	Fish 0/19	Fish －	(Fish 0.0075)									
			2016	0/15	0/15	－	(0.0032)																	
783	*p* -Nitrotoluene	99-99-0	1976	1/70	1/48	0.1	(0.03～0.4)	3/59	2/45	0.011～0.038	(0.002～0.01)	Fish 0/10	Fish 0/2	Fish －	(Fish 0.002)									783
			1986													0/73	0/12	－	(20)					
			1991	1/57	1/19	0.21	(0.2)	0/57	0/19	－	(0.015)	Fish 0/57	Fish 0/19	Fish －	(Fish 0.0075)									
784	2-Nitro-p-toluidine	89-62-3	1985	0/36	0/12	－	(0.02)	0/36	0/12	－	(0.008)													784
785	4-Nitro-o-toluidine	99-52-5	1985	0/36	0/12	－	(0.04)	0/36	0/12	－	(0.008)													785
786	*cis* -Nonachlor	5103-73-1	1982	0/126	0/42	－	(0.005)	43/126	18/42	0.0002～0.022	(0.0002～0.001)	Fish 76/123	Fish 24/36	Fish 0.001～0.023	(Fish 0.001)									786
			1983									Bivalves 10/20 Fish 23/50 Birds 5/10	Bivalves 2/4 Fish 5/10 Birds 1/2	Bivalves 0.002～0.008 Fish 0.001～0.013 Birds 0.024～0.036	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 10/20 Fish 32/60 Birds 8/10	Bivalves 2/4 Fish 7/12 Birds 2/2	Bivalves 0.002～0.006 Fish 0.001～0.027 Birds 0.001～0.057	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 10/20 Fish 35/60 Birds 5/10	Bivalves 2/4 Fish 7/12 Birds 1/2	Bivalves 0.003～0.008 Fish 0.001～0.016 Birds 0.027～0.054	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986													0/73	0/12	－	(0.7)					
					0/18	－			6/18	0.0001～0.0044		Bivalves 10/20 Fish 34/60 Birds 5/10	Bivalves 2/4 Fish 7/12 Birds 1/2	Bivalves 0.001～0.003 Fish 0.001～0.014 Birds 0.030～0.080	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1987		0/20	－			11/20	0.00003～0.011		Bivalves 9/20 Fish 40/65 Birds 5/10	Bivalves 2/4 Fish 9/13 Birds 1/2	Bivalves 0.001～0.004 Fish 0.001～0.015 Birds 0.033～0.110	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988		0/22	－			3/22	0.00055～0.0020		Bivalves 6/20 Fish 37/65 Birds 5/10	Bivalves 2/4 Fish 8/13 Birds 1/2	Bivalves 0.001～0.002 Fish 0.001～0.015 Birds 0.025～0.050	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989		1/17	0.004			4/17	0.00005～0.0049		Bivalves 8/21 Fish 36/65 Birds 5/10	Bivalves 3/5 Fish 8/13 Birds 1/2	Bivalves 0.001～0.003 Fish 0.001～0.026 Birds 0.006～0.028	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990		0/16	－			2/16	0.00011～0.0063		Bivalves 15/25 Fish 33/65 Birds 5/10	Bivalves 3/5 Fish 7/13 Birds 1/2	Bivalves 0.001～0.002 Fish 0.001～0.019 Birds 0.013～0.027	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991		0/18	－			5/18	0.000039～0.0044		Bivalves 10/30 Fish 31/65 Birds 5/10	Bivalves 2/6 Fish 7/13 Birds 1/2	Bivalves 0.001～0.002 Fish 0.001～0.013 Birds 0.010～0.016	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992		0/18	－			6/18	0.000012～0.0046		Bivalves 15/30 Fish 30/70 Birds 5/10	Bivalves 3/6 Fish 7/14 Birds 1/2	Bivalves 0.001～0.003 Fish 0.001～0.014 Birds 0.017～0.054	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993		0/19	－			7/19	0.000005～0.0037		Bivalves 10/30 Fish 37/70 Birds 5/10	Bivalves 2/6 Fish 10/14 Birds 1/2	Bivalves 0.001 Fish 0.001～0.012 Birds 0.011～0.023	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994		0/17	－			4/17	0.000016～0.0025		Bivalves 15/30 Fish 32/70 Birds 0/5	Bivalves 3/6 Fish 8/14 Birds 0/1	Bivalves 0.001～0.003 Fish 0.001～0.007 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995		0/18	－			5/18	0.000032～0.0053		Bivalves 10/30 Fish 27/70 Birds 4/10	Bivalves 2/6 Fish 7/14 Birds 1/2	Bivalves 0.001 Fish 0.001～0.008 Birds 0.001～0.003	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996		0/18	－			4/18	0.000023～0.003		Bivalves 5/30 Fish 19/70 Birds 4/10	Bivalves 2/6 Fish 6/14 Birds 1/2	Bivalves 0.001 Fish 0.001～0.015 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1997		0/18	－			4/18	0.000010～ 0.00237		Bivalves 10/30 Fish 19/70 Birds 0/10	Bivalves 2/6 Fish 6/14 Birds 0/2	Bivalves 0.001 Fish 0.001～0.005 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1998		0/18	－			4/18	0.0004～0.002		Bivalves 5/30 Fish 18/70 Birds 0/10	Bivalves 1/6 Fish 5/14 Birds 0/2	Bivalves 0.001 Fish 0.001～0.006 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999						2/18	0.00071～0.0012		Bivalves 0/30 Fish 15/70 Birds 0/10	Bivalves 0/6 Fish 3/14 Birds 0/2	Bivalves － Fish 0.002～0.011 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2000						2/17	0.0019～0.0030		Bivalves 1/30 Fish 19/69 Birds 0/10	Bivalves 1/6 Fish 5/14 Birds 0/2	Bivalves 0.001 Fish 0.001～0.006 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001						3/20	0.0013～0.0016		Bivalves 10/30 Fish 27/72 Birds 3/10	Bivalves 2/6 Fish 8/15 Birds 1/2	Bivalves 0.001～0.002 Fish 0.001～0.007 Birds 0.001～0.003	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	114/114	38/38	0.00000023～0.00025	(0.0000006)	188/189	63/63	0.0000010～ 0.0078	(0.0000007)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.0000086～ 0.00087 Fish 0.000046～0.0051 Birds 0.000068～ 0.00045	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	102/102	34/34	0.000071～ 0.062	(0.000010)					
			2003	36/36	36/36	0.0000013～0.00013	(0.0000001)	184/186	62/62	0.0000010～ 0.0065	(0.0000009)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.000048～ 0.0018 Fish 0.000019～0.0026 Birds 0.000068～ 0.00066	(Bivalves 0.0000016) (Fish 0.0000016) (Birds 0.0000016)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.00081～ 0.22 C.S. 0.00018～ 0.023	(W.S. 0.0000088) (C.S. 0.0000088)					
			2004	38/38	38/38	0.0000008～0.00034	(0.0000002)	189/189	63/63	0.0000008～ 0.0094	(0.0000006)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.000043～ 0.0018 Fish 0.000048～0.010 Birds 0.000073～ 0.00024	(Bivalves 0.0000011) (Fish 0.0000011) (Birds 0.0000011)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00036～ 0.13 C.S. 0.000087 ～0.028	(W.S. 0.000024) (C.S. 0.000024)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2005	47/47	47/47	0.0000009～0.000043	(0.0000002)	189/189	63/63	0.0000011～0.0099	(0.00000064)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000027～0.0013 Fish 0.000027～0.0062 Birds 0.000086～0.00037	(Bivalves 0.0000015) (Fish 0.0000015) (Birds 0.0000015)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00030～0.16 C.S. 0.00008～0.034	(W.S. 0.00003) (C.S. 0.00003)					
			2006	48/48	48/48	0.0000010～0.000083	(0.0000003)	192/192	64/64	0.0000006～0.0058	(0.0000004)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000031～0.0015 Fish 0.000033～0.0033 Birds 0.000060～0.00027	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00028～0.17 C.S. 0.00014～0.041	(W.S. 0.00005) (C.S. 0.00005)					
			2007	43/48	43/48	0.0000010～0.00021	(0.0000008)	191/192	64/64	0.0000007～0.0042	(0.0000006)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000026～0.0010 Fish 0.000016～0.0037 Birds 0.000042～0.0003	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00031～0.15 C.S. 0.00009～0.022	(W.S. 0.00001) (C.S. 0.00001)					
			2008	48/48	48/48	0.0000009～0.00013	(0.0000003)	192/192	64/64	0.0000011～0.0051	(0.0000002)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000033～0.00078 Fish 0.000046～0.0032 Birds 0.000037～0.00041	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00018～0.087 C.S. 0.00016～0.019	(W.S. 0.00001) (C.S. 0.00001)					
			2009	49/49	49/49	0.0000014～0.00021	(0.0000001)	192/192	64/64	0.0000014～0.0047	(0.0000004)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000031～0.010 Fish 0.000027～0.0026 Birds 0.000044～0.00016	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00033～0.11 C.S. 0.00007～0.018	(W.S. 0.00002) (C.S. 0.00002)					
			2010	49/49	49/49	0.0000009～0.00004	(0.0000004)	64/64	64/64	0.0000023～0.0036	(0.0000003)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000035～0.0013 Fish 0.000023～0.0022 Birds 0.000057～0.00019	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00023～0.068 C.S. 0.00006～0.013	(W.S. 0.00004) (C.S. 0.00004)					
			2011	49/49	49/49	0.0000008～0.00013	(0.0000002)	63/64	63/64	0.0000026～0.0029	(0.0000004)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000077～0.0013 Fish 0.000045～0.0029 Birds 0.000076	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 35/35 C.S. 36/37	W.S. 35/35 C.S. 36/37	W.S. 0.00024～0.089 C.S. 0.000060～0.028	(W.S. 0.000051) (C.S. 0.000051)					
			2012	48/48	48/48	0.0000011～0.000058	(0.0000003)	63/63	63/63	0.000001～0.0049	(0.000001)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000052～0.00067 Fish 0.000033～0.0022 Birds 0.000056～0.00010	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00029～0.089 C.S. 0.00005～0.010	(W.S. 0.00005) (C.S. 0.00005)					
			2013	48/48	48/48	0.0000007～0.000074	(0.0000003)	63/63	63/63	0.0000006～0.0031	(0.0000003)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000038～0.0009 Fish 0.000034～0.0030 Birds 0.000074～0.00097	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00015～0.072 C.S. 0.00006～0.012	(W.S. 0.00002) (C.S. 0.00002)					
			2016									Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000037～0.00022 Fish 0.000053～0.0019 Birds 0.000074～0.00077	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	37/37	37/37	0.00013～0.12	(0.00005)					
			2017	47/47	47/47	0.0000006～0.000036	(0.0000006)	61/62	61/62	0.0000012～0.0015	(0.0000007)													
			2020	46/46	46/46	0.0000006～0.000039	(0.0000005)	58/58	58/58	0.0000007～0.0021	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.000020～0.00020 Fish 0.000026～0.0016 Birds 0.00048	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00013～0.024	(0.00004)					
787	*trans* -Nonachlor	39765-80-5	1982	0/126	0/42	—	(0.005)	68/126	28/42	0.0002～0.055	(0.0002～0.001)	Fish 102/123	Fish 32/36	Fish 0.001～0.074	(Fish 0.001)									787
			1983									Bivalves 11/20 Fish 37/50 Birds 6/10	Bivalves 3/4 Fish 8/10 Birds 2/2	Bivalves 0.001～0.010 Fish 0.001～0.040 Birds 0.001～0.120	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 15/20 Fish 45/60 Birds 9/10	Bivalves 3/4 Fish 10/12 Birds 2/2	Bivalves 0.001～0.013 Fish 0.001～0.102 Birds 0.001～0.20	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 15/20 Fish 39/60 Birds 10/10	Bivalves 3/4 Fish 9/12 Birds 2/2	Bivalves 0.002～0.021 Fish 0.001～0.042 Birds 0.001～0.15	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986		0/18	—			10/18	0.0002～0.0196		Bivalves 18/20 Fish 43/60 Birds 5/10	Bivalves 4/4 Fish 10/12 Birds 1/2	Bivalves 0.001～0.010 Fish 0.001～0.041 Birds 0.12～0.26	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)	16/73	5/12	0.52～2.8	(0.5)					
			1987		1/20	0.0008			12/20	0.00007～0.030		Bivalves 15/20 Fish 45/65 Birds 5/10	Bivalves 3/4 Fish 9/13 Birds 1/2	Bivalves 0.001～0.010 Fish 0.002～0.050 Birds 0.16～0.47	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988		0/22	—			7/22	0.000086～0.0055		Bivalves 8/20 Fish 44/65 Birds 5/10	Bivalves 2/4 Fish 9/13 Birds 1/2	Bivalves 0.002～0.006 Fish 0.002～0.036 Birds 0.070～0.130	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989		1/17	0.005			4/17	0.00013～0.013		Bivalves 13/21 Fish 45/65 Birds 5/10	Bivalves 4/5 Fish 10/13 Birds 1/2	Bivalves 0.001～0.010 Fish 0.001～0.060 Birds 0.027～0.078	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990		0/18	—			5/18	0.00010～0.0122		Bivalves 15/25 Fish 41/65 Birds 5/10	Bivalves 3/5 Fish 9/13 Birds 1/2	Bivalves 0.004～0.040 Fish 0.001～0.041 Birds 0.038～0.078	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991		0/18	—			7/18	0.000061～0.014		Bivalves 20/30 Fish 43/65 Birds 5/10	Bivalves 4/6 Fish 9/13 Birds 1/2	Bivalves 0.001～0.008 Fish 0.001～0.034 Birds 0.025～0.046	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992		0/18	—			8/18	0.000022～0.012		Bivalves 15/30 Fish 46/70 Birds 10/10	Bivalves 3/6 Fish 10/14 Birds 2/2	Bivalves 0.002～0.013 Fish 0.001～0.023 Birds 0.001～0.100	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1993		1/19	0.0002			8/19	0.000015～0.0089		Bivalves 15/30 Fish 46/70 Birds 6/10	Bivalves 3/6 Fish 10/14 Birds 2/2	Bivalves 0.002～0.007 Fish 0.001～0.018 Birds 0.001～0.056	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994		0/17	－			5/17	0.000028～0.0067		Bivalves 15/30 Fish 43/70 Birds 0/5	Bivalves 3/6 Fish 11/14 Birds 0/1	Bivalves 0.002～0.009 Fish 0.001～0.027 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995		0/18	－			4/18	0.000022～0.0041		Bivalves 20/30 Fish 50/70 Birds 5/10	Bivalves 4/6 Fish 11/14 Birds 1/2	Bivalves 0.002～0.005 Fish 0.001～0.015 Birds 0.007～0.022	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996		0/18	－			6/18	0.000022～ 0.00328		Bivalves 15/30 Fish 42/70 Birds 5/10	Bivalves 3/6 Fish 11/14 Birds 1/2	Bivalves 0.001～0.004 Fish 0.001～0.033 Birds 0.002～0.003	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1997		0/18	－			8/18	0.000015～ 0.00612		Bivalves 15/30 Fish 34/70 Birds 5/10	Bivalves 3/6 Fish 8/14 Birds 1/2	Bivalves 0.002～0.004 Fish 0.001～0.011 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1998		0/18	－			7/18	0.00018～0.0044		Bivalves 10/30 Fish 40/70 Birds 6/10	Bivalves 2/6 Fish 9/14 Birds 2/2	Bivalves 0.002～0.003 Fish 0.001～0.008 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999						3/18	0.00063～0.0018		Bivalves 15/30 Fish 31/70 Birds 2/10	Bivalves 3/6 Fish 7/14 Birds 1/2	Bivalves 0.001～0.002 Fish 0.001～0.006 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2000						3/17	0.00035～0.0070		Bivalves 14/30 Fish 36/69 Birds 5/10	Bivalves 3/6 Fish 9/14 Birds 1/2	Bivalves 0.001～0.002 Fish 0.001～0.013 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001						5/20	0.00031～0.0048		Bivalves 11/30 Fish 38/72 Birds 5/10	Bivalves 3/6 Fish 9/15 Birds 1/2	Bivalves 0.001～0.004 Fish 0.001～0.013 Birds 0.002～0.016	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	114/114	38/38	0.0000018～0.00078	(0.0000004)	189/189	63/63	0.0000031～0.013	(0.0000005)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000021～ 0.0018 Fish 0.000098～0.0083 Birds 0.00035～0.0019	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	102/102	34/34	0.00064～0.55	(0.00010)					
			2003	36/36	36/36	0.000004～0.00045	(0.0000005)	186/186	62/62	0.000002～0.011	(0.0000006)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.00014～ 0.0038 Fish 0.000085～0.0058 Birds 0.00035～0.0037	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.0051～ 1.2 C.S. 0.0021～ 0.18	(W.S. 0.00012) (C.S. 0.00012)					
			2004	38/38	38/38	0.000003～0.0011	(0.000002)	189/189	63/63	0.000003～0.023	(0.0000006)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.00011～ 0.0034 Fish 0.00014～0.021 Birds 0.00039～0.0012	(Bivalves 0.0000042) (Fish 0.0000042) (Birds 0.0000042)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0019～ 0.87 C.S. 0.00095～ 0.24	(W.S. 0.00016) (C.S. 0.00016)					
			2005	47/47	47/47	0.0000026～0.00015	(0.00000084)	189/189	63/63	0.0000024～0.024	(0.00000054)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000072～ 0.0034 Fish 0.000080～0.013 Birds 0.00044～0.0020	(Bivalves 0.0000021) (Fish 0.0000021) (Birds 0.0000021)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0031～ 0.87 C.S. 0.0012～ 0.21	(W.S. 0.000044) (C.S. 0.000044)					
			2006	48/48	48/48	0.0000032～0.00031	(0.0000010)	192/192	64/64	0.0000034～0.010	(0.0000004)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000085～ 0.0032 Fish 0.00012～0.0069 Birds 0.00031～0.0015	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0030～ 0.80 C.S. 0.0014～ 0.24	(W.S. 0.00003) (C.S. 0.00003)					
			2007	48/48	48/48	0.000002～0.00054	(0.000002)	192/192	64/64	0.0000016～ 0.0084	(0.0000006)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000071～ 0.0024 Fish 0.000071～0.0079 Birds 0.00020～0.0014	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S.0.0025～ 0.94 C.S. 0.0011～ 0.19	(W.S. 0.00003) (C.S. 0.00003)					
			2008	48/48	48/48	0.0000019～0.00034	(0.0000006)	192/192	64/64	0.0000016～ 0.0084	(0.0000008)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000094～ 0.0020 Fish 0.000087～0.0069 Birds 0.00018～0.0026	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0015～ 0.65 C.S. 0.0013～ 0.17	(W.S. 0.00003) (C.S. 0.00003)					
			2009	49/49	49/49	0.0000027～0.00053	(0.0000004)	192/192	64/64	0.0000020～ 0.0078	(0.0000003)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000079～ 0.033 Fish 0.000068～0.0074 Birds 0.00022～0.00073	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0022～ 0.63 C.S. 0.00075～ 0.14	(W.S. 0.00003) (C.S. 0.00003)					
			2010	45/49	45/49	0.000003～0.000093	(0.000003)	64/64	64/64	0.000003～0.0062	(0.000002)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000084～ 0.006 Fish 0.00011～0.0047 Birds 0.00029～0.00088	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0017～ 0.52 C.S. 0.0007～ 0.089	(W.S. 0.0003) (C.S. 0.0003)					
			2011	49/49	49/49	0.0000026～0.00048	(0.0000005)	64/64	64/64	0.0000017～ 0.0045	(0.0000003)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.00020～ 0.0030 Fish 0.00019～0.0050 Birds 0.00040	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.0012～ 0.55 C.S. 0.00070～ 0.21	(W.S. 0.00035) (C.S. 0.00035)					
			2012	48/48	48/48	0.0000079～0.00021	(0.0000006)	63/63	63/63	0.0000025～0.010	(0.0000008)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.00019～ 0.0018 Fish 0.00014～0.0042 Birds 0.00027～0.00048	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0025～ 0.51 C.S. 0.00050～ 0.061	(W.S. 0.00041) (C.S. 0.00041)					
			2013	48/48	48/48	0.0000023～0.00017	(0.0000006)	63/63	63/63	0.0000022～ 0.0047	(0.0000004)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000098～ 0.0020 Fish 0.00015～0.0078 Birds 0.000018～ 0.00017	(Bivalves 0.0000034) (Fish 0.0000034) (Birds 0.0000034)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0012～ 0.47 C.S. 0.0005～ 0.075	(W.S. 0.0002) (C.S. 0.0002)					
			2016									Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000097～ 0.00052 Fish 0.00017～0.0034 Birds 0.000028～ 0.00013	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.0008～0.65	(0.0002)					
			2017	47/47	47/47	0.000002～0.00012	(0.000001)	61/62	61/62	0.000002～0.0026	(0.000002)													

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2020	45/46	45/46	0.000003～0.000095	(0.000002)	58/58	58/58	0.0000019～0.0038	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.000047～0.00048 Fish 0.000095～0.0057 Birds 0.000081	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0010～0.14	(0.00004)					
788	1-Nonanol	143-08-8	1979	0/27	0/9	—	(5～50)	0/27	0/9	—	(0.3～1)													788
			1995	0/33	0/11	—	(4)	3/30	1/10	0.304～0.392	(0.1)					14/18	5/6	8.7～81	(6)					
789	Nonylphenols	25154-52-3	1976	0/8	0/2	—	(5)	0/8	0/2	—	(0.25)													789
			1977	0/3	0/1	—	(0.4)	3/3	1/1	0.05～0.07														
			1997	0/123	0/41	—	(1.1)	43/129	17/43	0.16～1.3	(0.15)													
			2005	23/27	9/9	0.020～0.48	(0.020)																	
			2014									Bivalves & Fish 25/39	Bivalves & Fish 9/13	Bivalves & Fish 0.0057～0.025	(Bivalves & Fish 0.0055)									
	Total of 11 isomers		(2014)	16/30	16/30	0.021～0.32	(0.018*)																	
789-1	4-(3-Ethyl-2-methylhexane-2-yl)phenol		2014	18/30	18/30	0.0017～0.048	(0.0016)																	789-1
789-2	4-(2,3-Dimethylheptan-2-yl)phenol		2014	15/30	15/30	0.0032～0.042	(0.003)																	789-2
789-3	4-(2,4-Dimethylheptan-2-yl)phenol		2014	13/30	13/30	0.0039～0.050	(0.0029)																	789-3
789-4	4-(2,5-Dimethylheptan-2-yl)phenol		2014	12/30	12/30	0.0026～0.032	(0.0019)																	789-4
789-5	One of 4-(3,4-Dimethylheptan-3-yl)phenol stereoisomers		2014	19/30	19/30	0.0014～0.024	(0.0013)																	789-5
789-6	One of 4-(3,5-Dimethylheptan-3-yl)phenol stereoisomers		2014	13/30	13/30	0.0022～0.033	(0.0017)																	789-6
789-7	4-(3,6-Dimethylheptan-3-yl)phenol		2014	30/30	30/30	0.0011～0.061	(0.0010)																	789-7
789-8	4-(2,4-Dimethylheptan-4-yl)phenol		2014	15/30	15/30	0.0016～0.017	(0.0016)																	789-8
789-9	4-(3,4-Dimethylheptan-4-yl)phenol		(2014)	18/30	18/30	0.0017～0.030	(0.00052*)																	789-9
789-9-1	One of 4-(3,4-Dimethylheptan-4-yl)phenol stereoisomers		2014	18/30	18/30	0.00082～0.020	(0.00012)																	789-9-1
789-9-2	The ather of 4-(3,4-Dimethylheptan-4-yl)phenol stereoisomers		2014	19/30	19/30	0.00044～0.016	(0.00040)																	789-9-2
789-10	4-(3-Methyloctan-3-yl)phenol		2014	6/30	6/30	0.0066～0.019	(0.0023)																	789-10
	NTA	See Nitrilotriacetic acid																						
	2,3,3,3,2',3',3',3'-Octachlorodipropyl ether	See Bis(2,3,3,3-tetrachloropropyl) ether																						
	Octachlorodipropyl ether	See Bis(2,3,3,3-tetrachloropropyl) ether																						
790	Octachlorostyrene	29082-74-4	2009	0/72	0/24	—	(0.000046)																	790
791	(*Z*)-{[3-(Octadeca-9-enamido)propyl](dimethyl)ammonio}acetate	25054-76-6	2020	6/31	6/31	0.00010～0.00040	(0.000091)	22/93	13/31	0.000022～0.00016	(0.000020)													791
792	Octadecyl acrylate	4813-57-4	2024	0/42	0/42	—	(0.017)																	792
793	Octadecylamine(*N*-*B*)triphenylborane	107065-10-1	2005	0/9	0/3	—	(0.0061)																	793
794	1-Octanamine	111-86-4	1988	0/75	0/25	—	(0.1)	0/75	0/25	—	(0.022)													794
795	1-Octanol	111-87-5	1979	0/27	0/9	—	(5～50)	0/27	0/9	—	(0.3～1)													795
			2002	24/51	8/17	0.002～0.046	(0.002)	31/49	11/17	0.00094～0.024	(0.00024)	Fish 12/21	Fish 4/7	Fish 0.0024～0.062	(Fish 0.00077)									
796	2-Octanol	123-96-6	1995	0/33	0/11	—	(2)	0/33	0/11	—	(0.2)					10/18	4/6	4.2～130	(4)					796
797	Octyl acrylate	2499-59-4	2024	1/44	1/44	0.028	(0.017)																	797
	n -Octylamine	See 1-Octanamine																						
798	*p* -*n* -Octylphenol	1806-26-4	2005	0/12	0/4	—	(0.00092)																	798
	Octyltin compounds	See Organic tin compounds (Octyltin compounds)																						
799	Oleandomycin	3922-90-5	2014	0/17	0/17	—	(0.036)																	799
800	Organic silicon compounds	Unknown	1979	0/120	0/40	—	(10)	21/120	8/40	2.1～19.2	(2.0)													800
			1980	0/120	0/40	—	(2.5)	68/120	30/40	1.0～70	(1.0)	Fish 89/108	Fish 25/28	Fish 1.0～16	(Fish 1.0)									
801	Organictin compounds	Unknown	1975	0/80	0/16	—	(10,000～25,000)																	801
801-1	Monobutyltin compounds (synonym: MBT)	Unknown	1991									Bivalves 24/25 Fish 15/60 Birds 3/10	Bivalves 5/5 Fish 4/12 Birds 1/2	Bivalves 0.007～0.10 Fish 0.006～0.034 Birds 0.007～0.011	(Bivalves 0.005) (Fish 0.005) (Birds 0.005)									801-1
			2005	11/45	11/45	0.00030～0.0019	(0.00030)	155/189	54/63	0.00031～0.15	(0.00030)	Bivalves 29/31 Fish 22/80 Birds 1/10	Bivalves 7/7 Fish 11/16 Birds 1/2	Bivalves 0.0016～0.065 Fish 0.0015～0.0085 Birds 0.0037	(Bivalves 0.0015) (Fish 0.0015) (Birds 0.0015)									
			2015	7/23	7/23	0.0044～0.22	(0.0044)									9/42	5/14	6.5～16	(4.7)					
801-2	Dibutyltin compounds (synonym: DBT)	Unknown	1983	0/75	0/25	—	(0.1～0.4)	3/75	2/25	0.02～0.03	(0.01～0.044)													801-2
			1984	0/138	0/46	—	(0.08～10)	6/138	2/46	0.004～0.11	(0.003～0.07)	Fish 0/138	Fish 0/42	Fish —	(Fish 0.003～0.05)									
			1991									Bivalves 30/30 Fish 30/50 Birds 3/10	Bivalves 6/6 Fish 8/10 Birds 1/2	Bivalves 0.010～0.40 Fish 0.005～0.074 Birds 0.006～0.019	(Bivalves 0.005) (Fish 0.005) (Birds 0.005)									
			1998	20/39	8/13	0.0030～0.017	(0.0021)	36/36	12/12	0.0020～0.27	(0.002)													
			1999	109/145	40/49	0.0011～0.020	(0.001)	122/153	45/51	0.0027～0.19	(0.0025)	Fish 75/140	Fish 29/47	Fish 0.0023～0.071	(Fish 0.0023)									
			2003					152/186	57/62	0.0004～0.64	(0.0004)	Bivalves 30/30 Fish 39/70 Birds 4/10	Bivalves 6/6 Fish 12/14 Birds 1/2	Bivalves 0.002～0.053 Fish 0.001～0.007 Birds 0.001～0.003	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2005	19/44	19/44	0.0017～0.17	(0.0010)	157/189	56/63	0.00030～0.75	(0.00030)	Bivalves 31/31 Fish 43/81 Birds 1/10	Bivalves 7/7 Fish 13/16 Birds 1/2	Bivalves 0.0023～0.024 Fish 0.0010～0.014 Birds 0.0023	(Bivalves 0.0010) (Fish 0.0010) (Birds 0.0010)									
			2015	7/22	7/22	0.0021～0.16	(0.0017)									0/42	0/14	—	(4.9)					
801-3	Tributyltin compounds (synonym: TBT)	Unknown	1983	0/75	0/25	—	(0.1～1)	9/75	3/25	0.05～0.70	(0.01～0.08)													801-3
			1984	0/138	0/46	—	(0.1～10)	32/138	12/46	0.006～0.91	(0.006～0.21)	Fish 29/138	Fish 14/42	Fish 0.009～0.48	(Fish 0.003～0.1)									
			1985									Bivalves 15/20 Fish 23/60 Birds 0/10	Bivalves 3/4 Fish 6/12 Birds 0/2	Bivalves 0.05～0.28 Fish 0.05～1.7 Birds —	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									
			1986									Bivalves 20/20 Fish 27/60 Birds 0/10	Bivalves 4/4 Fish 6/12 Birds 0/2	Bivalves 0.05～0.48 Fish 0.05～0.69 Birds —	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									
			1987									Bivalves 20/20 Fish 16/65 Birds 0/10	Bivalves 4/4 Fish 4/13 Birds 0/2	Bivalves 0.05～0.43 Fish 0.07～1.3 Birds —	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1988	34/51	12/17	0.003～0.11	(0.003)	51/51	17/17	0.0004～0.23	(0.0003)	Bivalves 12/20 Fish 27/65 Birds 0/10	Bivalves 3/4 Fish 7/13 Birds 0/2	Bivalves 0.05～0.29 Fish 0.05～0.66 Birds －	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									
			1989	48/78	17/26	0.005～0.45	(0.003～0.06)	65/78	22/26	0.0003～0.44	(0.0001～0.005)	Bivalves 16/21 Fish 23/65 Birds 0/10	Bivalves 4/5 Fish 5/13 Birds 0/2	Bivalves 0.07～0.75 Fish 0.05～0.66 Birds －	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									
			1990	62/96	22/32	0.003～0.051	(0.01～0.001)	82/96	29/32	0.0005～0.89	(0.00005～0.005)	Bivalves 24/25 Fish 26/65 Birds 0/10	Bivalves 5/5 Fish 6/13 Birds 0/2	Bivalves 0.05～0.51 Fish 0.05～1.15 Birds －	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									
			1991	60/93	23/31	0.003～0.067	(0.001～0.007)	85/95	30/32	0.0008～0.42	(0.0003～0.005)	Bivalves 18/30 Fish 21/65 Birds 0/10	Bivalves 4/6 Fish 5/13 Birds 0/2	Bivalves 0.05～0.37 Fish 0.06～0.59 Birds －	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)					Food 10/81	Food 6/9	Food 5.1～10ng/g-wet	(Food 5)	
			1992	52/99	20/33	0.003～0.084	(0.002～0.006)	87/102	31/34	0.0014～0.42	(0.0003～0.01)	Bivalves 17/30 Fish 22/70 Birds 0/10	Bivalves 5/6 Fish 6/14 Birds 0/2	Bivalves 0.05～0.45 Fish 0.06～0.43 Birds －	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)					Food 3/72	Food 2/8	Food 6～11ng/g-wet	(Food 1～10)	
			1993	42/99	17/33	0.003～0.049	(0.003～0.025)	83/102	30/34	0.0008～1.6	(0.0003～0.007)	Bivalves 15/30 Fish 23/70 Birds 0/10	Bivalves 3/6 Fish 6/14 Birds 0/2	Bivalves 0.05～0.78 Fish 0.05～0.37 Birds －	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)					Food 1/81	Food 1/9	Food 11ng/g-wet	(Food 1～10)	
			1994	35/99	15/33	0.003～0.03	(0.002～0.025)	87/102	31/34	0.001～0.44	(0.0003～0.007)	Bivalves 6/30 Fish 15/70 Birds 0/5	Bivalves 2/6 Fish 3/14 Birds 0/1	Bivalves 0.05～0.10 Fish 0.10～0.17 Birds －	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)					Food 4/81	Food 1/9	Food 5～10ng/g-wet	(Food 0.3～5)	
			1995	31/105	13/35	0.003～0.042	(0.003)	87/104	31/35	0.0009～0.57	(0.0008)	Bivalves 20/30 Fish 13/70 Birds 0/10	Bivalves 5/6 Fish 6/14 Birds 0/2	Bivalves 0.05～0.35 Fish 0.05～0.54 Birds －	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									
			1996	27/105	13/35	0.003～0.014	(0.003)	94/108	32/36	0.0007～0.93	(0.0006)	Bivalves 15/30 Fish 23/70 Birds 0/10	Bivalves 3/6 Fish 6/14 Birds 0/2	Bivalves 0.05～0.09 Fish 0.05～0.24 Birds －	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									
			1997	21/107	11/36	0.003～0.009	(0.003)	85/105	30/35	0.0008～0.24	(0.0008)	Bivalves 18/30 Fish 12/70 Birds 0/10	Bivalves 4/6 Fish 3/14 Birds 0/2	Bivalves 0.05～0.24 Fish 0.07～0.14 Birds －	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									
			1998	20/73	9/25	0.0031～0.0080	(0.0030)	86/105	30/35	0.0008～0.73	(0.0008)	Bivalves 10/30 Fish 17/70 Birds 0/10	Bivalves 2/6 Fish 6/14 Birds 0/2	Bivalves 0.06～0.11 Fish 0.05～0.09 Birds －	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									
			1999	16/105	8/35	0.003～0.0098	(0.003)	85/103	31/36	0.00095～0.45	(0.0008)	Bivalves 0/30 Fish 9/70 Birds 0/10	Bivalves 0/6 Fish 4/14 Birds 0/2	Bivalves － Fish 0.05～0.12 Birds －	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									
			2000	9/102	6/34	0.003～0.0046	(0.003)	81/99	29/33	0.0009～0.24	(0.0008)	Bivalves 0/30 Fish 10/70 Birds 0/10	Bivalves 0/6 Fish 3/14 Birds 0/2	Bivalves － Fish 0.05～0.16 Birds －	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									
			2001	13/96	7/32	0.0030～0.023	(0.003)	83/102	30/34	0.0008～0.21	(0.0008)	Bivalves 30/30 Fish 31/72 Birds 0/10	Bivalves 6/6 Fish 8/15 Birds 0/2	Bivalves 0.01～0.05 Fish 0.01～0.10 Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			2002					126/189	48/63	0.0012～0.39	(0.0012)	Bivalves 38/38 Fish 55/70 Birds 0/10	Bivalves 8/8 Fish 13/14 Birds 0/2	Bivalves 0.002～0.057 Fish 0.001～0.50 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2003					127/186	46/62	0.0004～0.45	(0.0004)	Bivalves 30/30 Fish 63/70 Birds 1/10	Bivalves 6/6 Fish 13/14 Birds 1/2	Bivalves 0.002～0.025 Fish 0.001～0.072 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2005	2/47	2/47	0.00044～0.00076	(0.00010)	143/189	52/63	0.000085～0.59	(0.000080)	Bivalves 31/31 Fish 49/80 Birds 0/10	Bivalves 7/7 Fish 11/16 Birds 0/2	Bivalves 0.0015～0.025 Fish 0.0010～0.13 Birds －	(Bivalves 0.0010) (Fish 0.0010) (Birds 0.0010)									
			2010	12/49	12/49	0.0002～0.0016	(0.0001)	148/192	53/64	0.00010～1.3	(0.00008)	Bivalves 16/16 Fish 49/54 Birds 0/6	Bivalves 6/6 Fish 17/18 Birds 0/2	Bivalves 0.0016～0.03 Fish 0.00016～0.023 Birds －	(Bivalves 0.00016) (Fish 0.00016) (Birds 0.00016)									
801-4	Tricyclohexyltin compounds	Unknown	1986	0/30	0/10	－	(2)	0/18	0/6	－	(0.04)													801-4
801-5	Dimethyltin compounds	Unknown	2015	6/23	6/23	0.009～0.11	(0.007)									1/42	1/14	18	(3.7)					801-5
801-6	Octyltin compounds	Unknown	1984	0/21	0/7	－	(0.5～6)	0/21	0/7	－	(0.01～0.84)													801-6
801-7	Dioctyltin compounds	Unknown	1984	0/21	0/7	－	(0.5～1)	0/21	0/7	－	(0.03～0.14)													801-7
			2000	3/147	2/49	0.0073～0.072	(0.0059)	27/147	13/49	11～100	(10)	Fish 23/117	Fish 12/39	Fish 0.64～6.5	(Fish 0.64)									
			2004	0/38	0/38	－	(0.0019)	81/189	33/63	0.0021～0.088	(0.0020)	Bivalves 0/31 Fish 4/70 Birds 0/10	Bivalves 0/7 Fish 1/14 Birds 0/2	Bivalves － Fish 0.0020～0.0025 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2006									Bivalves 3/31 Fish 7/80 Birds 0/10	Bivalves 1/7 Fish 3/16 Birds 0/2	Bivalves 0.00029～0.00034 Fish 0.00028～0.0047 Birds －	(Bivalves 0.00027) (Fish 0.00027) (Birds 0.00027)									
			2008	2/48	2/48	0.00073～0.010	(0.0006)	158/189	56/63	0.00009～0.090	(0.00009)	Bivalves 13/31 Fish 11/85 Birds 0/10	Bivalves 4/7 Fish 3/17 Birds 0/2	Bivalves 0.00011～0.00060 Fish 0.00037～0.11 Birds －	(Bivalves 0.00010) (Fish 0.00010) (Birds 0.00010)									
801-8	Trioctyltin compounds	Unknown	1984	0/21	0/7	－	(1)	0/21	0/7	－	(0.07～0.14)													801-8
801-9	Monophenyltin compounds (synonym: MPT)	Unknown	1989	14/67	9/23	0.03～47.3	(0.03)	28/55	11/19	0.019～1.1	(0.015)	Fish 28/54	Fish 11/18	Fish 0.015～1.1	(Fish 0.015)									801-9
			1991									Bivalves 1/30 Fish 10/55 Birds 0/10	Bivalves 1/6 Fish 4/11 Birds 0/2	Bivalves 0.021 Fish 0.018～0.10 Birds －	(Bivalves 0.015) (Fish 0.015) (Birds 0.015)									
			1998	0/156	0/52	－	(0.01)	31/134	14/46	0.016～0.76	(0.016)													
			1999	0/156	0/52	－	(0.007)	28/152	12/51	0.016～0.16	(0.016)	Fish 6/134	Fish 3/45	Fish 0.0041～0.0083	(Fish 0.0032)									
			2003					86/186	35/62	0.0008～1.0	(0.0008)	Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.005) (Fish 0.005) (Birds 0.005)									
			2005	0/47	0/47	－	(0.00020)	110/189	42/63	0.00015～0.28	(0.00010)	Bivalves 0/31 Fish 0/80 Birds 0/10	Bivalves 0/7 Fish 0/16 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.0010) (Fish 0.0010) (Birds 0.0010)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
801-10	Diphenyltin compounds (synonym: DPT)	Unknown	1989	5/72	4/24	0.38～27	(0.06)	31/53	13/19	0.007～0.50	(0.005)	Fish 48/59	Fish 17/20	Fish 0.005～0.99	(Fish 0.005)									801-10
			1991									Bivalves 5/30 Fish 25/65 Birds 0/10	Bivalves 1/6 Fish 6/13 Birds 0/2	Bivalves 0.020 Fish 0.015～0.26 Birds －	(Bivalves 0.015) (Fish 0.015) (Birds 0.015)									
			1998	12/133	6/45	0.00037～0.0017	(0.0003)	79/138	30/46	0.00079～0.21	(0.00072)													
			1999	8/141	4/47	0.00026～0.0036	(0.00025)	65/149	26/50	0.00061～0.059	(0.00061)	Fish 41/134	Fish 20/45	Fish 0.00013～0.0039	(Fish 0.00013)									
			2003					100/186	38/62	0.00007～0.12	(0.00006)	Bivalves 3/30 Fish 3/70 Birds 0/10	Bivalves 2/6 Fish 2/14 Birds 0/2	Bivalves 0.0006～0.0016 Fish 0.0006～0.0013 Birds －	(Bivalves 0.0005) (Fish 0.0005) (Birds 0.0005)									
			2005	0/47	0/47	－	(0.000080)	97/189	39/63	0.000022～0.074	(0.000020)	Bivalves 0/31 Fish 0/80 Birds 0/10	Bivalves 0/7 Fish 0/16 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.00050) (Fish 0.00050) (Birds 0.00050)									
801-11	Triphenyltin compounds (synonym: TPT)	Unknown	1982	0/69	0/23	－	(0.1～35)	0/69	0/23	－	(0.01～1.8)													801-11
			1988	73/119	30/40	0.005～0.088	(0.005)	99/129	37/45	0.001～1.1	(0.001)	Fish 118/144	Fish 42/48	Fish 0.02～2.6	(Fish 0.02)									
			1989	39/78	14/26	0.005～0.090	(0.003～0.05)	50/78	18/26	0.0006～0.17	(0.0003～0.015)	Bivalves 17/21 Fish 45/65 Birds 5/10	Bivalves 5/5 Fish 8/13 Birds 1/2	Bivalves 0.02～0.45 Fish 0.03～2.60 Birds 0.03～0.05	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			1990	16/96	7/32	0.005～0.048	(0.002～0.02)	54/96	19/32	0.0008～0.13	(0.00015～0.015)	Bivalves 20/25 Fish 40/65 Birds 5/10	Bivalves 4/5 Fish 10/13 Birds 1/2	Bivalves 0.03～0.15 Fish 0.02～1.93 Birds 0.02～0.04	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			1991	4/84	3/28	0.008～0.014	(0.003～0.05)	55/89	22/30	0.001～0.34	(0.0005～0.017)	Bivalves 22/30 Fish 34/65 Birds 0/10	Bivalves 5/6 Fish 8/13 Birds 0/2	Bivalves 0.02～0.08 Fish 0.02～0.59 Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)					Food 0/81	Food 0/9	Food －ng/g-wet	(Food 2～17)	
			1992	10/90	5/30	0.005～0.044	(0.003～0.015)	57/95	22/32	0.001～0.09	(0.0005～0.025)	Bivalves 10/30 Fish 40/70 Birds 0/10	Bivalves 2/6 Fish 10/14 Birds 0/2	Bivalves 0.04～0.11 Fish 0.02～0.26 Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)					Food 0/81	Food 0/9	Food －ng/g-wet	(Food 2～25)	
			1993	2/90	2/30	0.008～0.011	(0.005～0.1)	59/96	20/32	0.001～0.15	(0.0005～0.03)	Bivalves 5/30 Fish 38/70 Birds 0/10	Bivalves 1/6 Fish 10/14 Birds 0/2	Bivalves 0.04～0.07 Fish 0.02～0.34 Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)					Food 0/81	Food 0/9	Food －ng/g-wet	(Food 1～10)	
			1994	4/92	2/31	0.005～0.01	(0.005～0.1)	47/88	22/31	0.001～0.26	(0.0003～0.03)	Bivalves 5/30 Fish 28/70 Birds 0/5	Bivalves 1/6 Fish 7/14 Birds 0/1	Bivalves 0.03～0.04 Fish 0.03～0.28 Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)					Food 0/81	Food 0/9	Food －ng/g-wet	(Food 1～10)	
			1995	0/87	0/29	－	(0.005)	49/93	21/32	0.001～0.11	(0.0010)	Bivalves 0/30 Fish 21/70 Birds 0/10	Bivalves 0/6 Fish 5/14 Birds 0/2	Bivalves － Fish 0.03～0.25 Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			1996	0/108	0/36	－	(0.01)	41/99	15/33	0.001～0.22	(0.001)	Bivalves 0/30 Fish 20/70 Birds 0/10	Bivalves 0/6 Fish 5/14 Birds 0/2	Bivalves － Fish 0.02～0.27 Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			1997	0/108	0/36	－	(0.01)	36/91	16/31	0.001～0.28	(0.001)	Bivalves 5/30 Fish 19/70 Birds 0/10	Bivalves 1/6 Fish 5/14 Birds 0/2	Bivalves 0.05～0.07 Fish 0.02～0.12 Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			1998	4/102	3/34	0.0010～0.0015	(0.0010)	54/94	21/33	0.001～0.065	(0.001)	Bivalves 0/30 Fish 14/70 Birds 0/10	Bivalves 0/6 Fish 6/14 Birds 0/2	Bivalves － Fish 0.02～0.05 Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			1999	3/105	1/35	0.0012～0.0040	(0.001)	45/99	17/33	0.001～0.062	(0.001)	Bivalves 0/30 Fish 10/70 Birds 0/10	Bivalves 0/6 Fish 3/14 Birds 0/2	Bivalves － Fish 0.03～0.05 Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			2000	0/102	0/34	－	(0.001)	52/96	20/32	0.001～0.070	(0.001)	Bivalves 1/30 Fish 13/70 Birds 0/10	Bivalves 1/6 Fish 4/14 Birds 0/2	Bivalves 0.02 Fish 0.03～0.10 Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			2001	3/96	1/32	0.0014～0.0017	(0.001)	49/102	21/34	0.0010～0.029	(0.0010)	Bivalves 5/30 Fish 6/72 Birds 0/10	Bivalves 1/6 Fish 3/15 Birds 0/2	Bivalves 0.02 Fish 0.02～0.05 Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			2002					76/189	30/63	0.00055～0.49	(0.00055)	Bivalves 31/38 Fish 69/70 Birds 0/10	Bivalves 7/8 Fish 14/14 Birds 0/2	Bivalves 0.0006～0.025 Fish 0.0007～0.52 Birds －	(Bivalves 0.0005) (Fish 0.0005) (Birds 0.0005)									
			2003					96/186	37/62	0.00009～0.54	(0.00009)	Bivalves 26/30 Fish 68/70 Birds 0/10	Bivalves 6/6 Fish 14/14 Birds 0/2	Bivalves 0.0011～0.027 Fish 0.0009～0.030 Birds －	(Bivalves 0.0005) (Fish 0.0005) (Birds 0.0005)									
			2005	2/47	2/47	0.00014～0.00019	(0.000050)	104/189	39/63	0.000032～0.42	(0.000030)	Bivalves 31/31 Fish 76/80 Birds 1/10	Bivalves 7/7 Fish 16/16 Birds 1/2	Bivalves 0.0006～0.015 Fish 0.0005～0.034 Birds 0.0005	(Bivalves 0.0005) (Fish 0.0005) (Birds 0.0005)									
			2010	4/49	4/49	0.00005～0.00025	(0.00005)	106/192	42/64	0.00004～0.21	(0.00003)	Bivalves 16/16 Fish 54/54 Birds 1/6	Bivalves 6/6 Fish 18/18 Birds 1/2	Bivalves 0.00049～0.0065 Fish 0.00014～0.014 Birds 0.00012	(Bivalves 0.00011) (Fish 0.00011) (Birds 0.00011)									
801-12	Tetraphenyltin	595-90-4	1997	0/159	0/53	－	(0.05)	9/126	5/42	0.0060～0.50	(0.0058)	Fish 7/144	Fish 4/46	Fish 0.00098～0.0053	(Fish 0.00088)									801-12
801-13	Tripropyltin compounds	Unknown	1982	0/60	0/20	－	(0.1～2)	0/60	0/20	－	(0.01～0.12)	Fish 1/9	Fish 1/3	Fish 0.0025	(Fish 0.0006)									801-13
802	Ormetoprim	6981-18-6	2014	1/16	1/16	0.011～0.011	(0.005)																	802
	Oxamyl	See *N*′,*N*′-Dimethylcarbamoyl(methylthio)methylenamine *N*-methylcarbamate																						
803	4-Oxilanyl-1,2-epoxycyclohexane	106-87-6	2006													0/15	0/5	－	(16)					803
	Oxirane	See Ethylene oxide																						
804	Oxychlordane	26880-48-8	1982	0/126	0/42	－	(0.005)	3/126	3/42	0.0002～0.0003	(0.0002～0.001)	Fish 47/123	Fish 20/36	Fish 0.001～0.009	(Fish 0.001)									804
			1983									Bivalves 5/20 Fish 17/50 Birds 7/10	Bivalves 1/4 Fish 4/10 Birds 2/2	Bivalves 0.003～0.004 Fish 0.001～0.004 Birds 0.001～0.049	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 5/20 Fish 26/60 Birds 10/10	Bivalves 1/4 Fish 6/12 Birds 2/2	Bivalves 0.005 Fish 0.001～0.007 Birds 0.001～0.049	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 5/20 Fish 31/60 Birds 10/10	Bivalves 1/4 Fish 7/12 Birds 2/2	Bivalves 0.005～0.008 Fish 0.001～0.005 Birds 0.001～0.046	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1986		0/18	—			0/18	—		Bivalves 4/20 Fish 24/60 Birds 8/10	Bivalves 1/4 Fish 6/12 Birds 2/2	Bivalves 0.004～0.006 Fish 0.001～0.005 Birds 0.001～0.055	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)	0/73	0/12	—	(1.5)					
			1987		0/20	—			0/20	—		Bivalves 5/20 Fish 28/65 Birds 5/10	Bivalves 1/4 Fish 7/13 Birds 1/2	Bivalves 0.002～0.006 Fish 0.001～0.013 Birds 0.030～0.079	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988									Bivalves 1/20 Fish 24/65 Birds 5/10	Bivalves 1/4 Fish 6/13 Birds 1/2	Bivalves 0.002 Fish 0.001～0.006 Birds 0.014～0.040	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1989									Bivalves 4/21 Fish 28/65 Birds 7/10	Bivalves 1/5 Fish 7/13 Birds 2/2	Bivalves 0.001～0.004 Fish 0.001～0.005 Birds 0.001～0.023	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990									Bivalves 5/25 Fish 16/65 Birds 5/10	Bivalves 1/5 Fish 4/13 Birds 1/2	Bivalves 0.004～0.006 Fish 0.001～0.007 Birds 0.011～0.018	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1991									Bivalves 10/30 Fish 21/65 Birds 8/10	Bivalves 2/6 Fish 6/13 Birds 2/2	Bivalves 0.001～0.006 Fish 0.001～0.004 Birds 0.001～0.014	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992									Bivalves 5/30 Fish 14/70 Birds 10/10	Bivalves 1/6 Fish 4/14 Birds 2/2	Bivalves 0.008～0.011 Fish 0.001～0.003 Birds 0.002～0.019	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1993									Bivalves 5/30 Fish 21/70 Birds 10/10	Bivalves 1/6 Fish 5/14 Birds 2/2	Bivalves 0.005～0.007 Fish 0.001～0.004 Birds 0.002～0.016	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994									Bivalves 5/30 Fish 12/70 Birds 0/5	Bivalves 1/6 Fish 3/14 Birds 0/1	Bivalves 0.006～0.016 Fish 0.001～0.002 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1995									Bivalves 5/30 Fish 3/70 Birds 5/10	Bivalves 1/6 Fish 2/14 Birds 1/2	Bivalves 0.005～0.007 Fish 0.001～0.002 Birds 0.003～0.011	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996									Bivalves 5/30 Fish 11/70 Birds 5/10	Bivalves 1/6 Fish 3/14 Birds 1/2	Bivalves 0.004 Fish 0.001～0.003 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1997									Bivalves 5/30 Fish 1/70 Birds 0/10	Bivalves 1/6 Fish 1/14 Birds 0/2	Bivalves 0.003～0.004 Fish 0.002 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1998									Bivalves 5/30 Fish 5/70 Birds 1/10	Bivalves 1/6 Fish 1/14 Birds 1/2	Bivalves 0.002～0.003 Fish 0.001 Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999									Bivalves 5/30 Fish 0/70 Birds 0/10	Bivalves 1/6 Fish 0/14 Birds 0/2	Bivalves 0.002～0.003 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2000									Bivalves 5/30 Fish 5/69 Birds 0/10	Bivalves 1/6 Fish 2/14 Birds 0/2	Bivalves 0.004～0.006 Fish 0.001～0.002 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2001									Bivalves 5/30 Fish 7/72 Birds 7/10	Bivalves 1/6 Fish 5/15 Birds 2/2	Bivalves 0.001～0.003 Fish 0.001～0.007 Birds 0.001～0.005	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2002	96/114	35/38	0.00000013～ 0.000041	(0.0000004)	153/189	59/63	0.0000006～ 0.00012	(0.0000005)	Bivalves 37/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.0000019～ 0.0056 Fish 0.000016～0.0039 Birds 0.00047～0.00089	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	101/102	34/34	0.00037～ 0.0083	(0.000008)					
			2003	36/36	36/36	0.0000006～0.000039	(0.0000005)	158/186	57/62	0.0000005～ 0.000085	(0.0000004)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.000011～ 0.0019 Fish 0.000030～0.00082 Birds 0.00061～0.0013	(Bivalves 0.0000028) (Fish 0.0000028) (Birds 0.0000028)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.00041～ 0.012 C.S. 0.00041～ 0.0032	(W.S. 0.000015) (C.S. 0.000015)					
			2004	38/38	38/38	0.0000007～0.000047	(0.0000005)	129/189	54/63	0.0000008～ 0.00014	(0.0000008)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.000014～ 0.0017 Fish 0.000025～0.0015 Birds 0.00032～0.00073	(Bivalves 0.0000031) (Fish 0.0000031) (Birds 0.0000031)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00041～ 0.0078 C.S. 0.00027～ 0.0039	(W.S. 0.000042) (C.S. 0.000042)					
			2005	46/47	46/47	0.0000003～0.000019	(0.0000004)	133/189	51/63	0.0000007～ 0.00016	(0.0000007)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000012～ 0.0014 Fish 0.000020～0.0019 Birds 0.00039～0.00086	(Bivalves 0.0000031) (Fish 0.0000031) (Birds 0.0000031)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00065～ 0.0088 C.S. 0.00027～ 0.0022	(W.S. 0.000054) (C.S. 0.000054)					
			2006	43/48	43/48	0.00000038～ 0.000018	(0.0000009)	141/192	54/64	0.0000010～ 0.00028	(0.0000010)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000007～ 0.0024 Fish 0.000028～0.0030 Birds 0.00027～0.00072	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00047～ 0.0057 C.S. 0.00013～ 0.0051	(W.S. 0.00008) (C.S. 0.00008)					
			2007	25/48	25/48	0.000002～0.000041	(0.000002)	117/192	46/64	0.0000009～ 0.000076	(0.0000009)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000008～ 0.0022 Fish 0.000017～0.0019 Birds 0.00029～0.00074	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00056～ 0.0086 C.S. 0.00026～ 0.0024	(W.S. 0.00002) (C.S. 0.00002)					
			2008	40/48	40/48	0.00000031～ 0.000014	(0.0000007)	110/192	48/64	0.000001～ 0.00034	(0.000001)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000007～ 0.0011 Fish 0.000015～0.0022 Birds 0.00029～0.00096	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0005～ 0.0071 C.S. 0.00027～ 0.0018	(W.S. 0.00001) (C.S. 0.00001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2009	45/49	45/49	0.00000038～0.000019	(0.0000004)	97/192	45/64	0.000001～0.00015	(0.000001)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000010～0.00082 Fish 0.000023～0.0024 Birds 0.00019～0.00054	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00038～0.0065 C.S. 0.00024～0.0027	(W.S. 0.00002) (C.S. 0.00002)					
			2010	47/49	47/49	0.0000003～0.000045	(0.0000003)	56/64	56/64	0.0000004～0.000060	(0.0000004)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000011～0.0033 Fish 0.000033～0.0010 Birds 0.00032～0.00051	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00044～0.0062 C.S. 0.00026～0.0023	(W.S. 0.00001) (C.S. 0.00001)					
			2011	44/49	44/49	0.00000036～0.000034	(0.0000005)	36/64	36/64	0.0000009～0.000083	(0.0000009)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000008～0.00026 Fish 0.000033～0.0023 Birds 0.00059	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.00028～0.0052 C.S. 0.00021～0.0026	(W.S. 0.00003) (C.S. 0.00003)					
			2012	44/48	44/48	0.0000005～0.000017	(0.0000004)	38/63	38/63	0.0000007～0.000075	(0.0000007)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000012～0.00045 Fish 0.000028～0.00039 Birds 0.00017～0.00036	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00034～0.0067 C.S. 0.00022～0.0010	(W.S. 0.00003) (C.S. 0.00003)					
			2013	41/48	41/48	0.0000009～0.000012	(0.0000004)	50/63	50/63	0.0000005～0.000054	(0.0000005)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000008～0.00021 Fish 0.000031～0.00056 Birds 0.0019～0.0034	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00036～0.0047 C.S. 0.00020～0.0010	(W.S. 0.00001) (C.S. 0.00001)					
			2016									Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000011～0.000043 Fish 0.000031～0.00095 Birds 0.00024～0.0014	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00019～0.0089	(0.00006)					
			2017	19/47	19/47	0.000002～0.000012	(0.000002)	41/62	41/62	0.000001～0.000078	(0.000001)													
			2020	21/46	21/46	0.000001～0.000008	(0.000001)	34/58	34/58	0.0000007～0.000039	(0.0000007)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.000005～0.000059 Fish 0.000024～0.0021 Birds 0.00082	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00015～0.0026	(0.00004)					
805	Oxytetracycline	79-57-2	2014	0/14	0/14	—	(0.0029)																	805
	2,4-PA	See 2,4-Dichlorophenoxy acetic acid																						
	PAHs	See Polycyclic aromatic hydrocarbons																						
	PAP	See Ethyl 2-[(dimethoxyphosphinothioyl)thio]-2-phenylacetate																						
	PCB	See Polychlorobiphenyls																						
	PCN	See Polychloronaphthalenes																						
	PCNB	See Pentachloronitrobenzene																						
	PCP	See Pentachlorophenol																						
	PCT	See Polychloroterphenyls																						
	Penchlorol	See Pentachlorophenol																						
	Pendimethalin	See *N*-(1-Ethylpropyl)-2,6-dinitro-3,4-xylidine																						
806	Pentabromobenzene	608-90-2	1981	0/18	0/6	—	(0.005～0.05)	0/18	0/6	—	(0.00005～0.001)													806
807	1,2,3,4,5-Pentabromo-6-chlorocyclohexane	87-84-3	1985	0/27	0/9	—	(0.03)	0/27	0/9	—	(0.004)													807
808	Pentachloroaniline	527-20-8	1981	0/15	0/5	—	(0.0001～0.01)	0/15	0/5	—	(0.001～0.01)													808
809	Pentachloroanisole	1825-21-4	2016									Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000003～0.000035 Fish 0.000001～0.00010 Birds 0.000010～0.000014	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.0034～0.22	(0.0004)					
			2017	32/47	32/47	0.000005～0.0010	(0.000005)	61/62	61/62	0.000003～0.00019	(0.000002)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000002～0.000036 Fish 0.000001～0.00012 Birds 0.000011～0.000047	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.0060～0.21	(0.0005)					
			2018	30/47	30/47	0.000006～0.00023	(0.000006)	53/61	53/61	0.000009～0.00016	(0.000009)	Bivalves 3/3 Fish 16/18 Birds 2/2	Bivalves 3/3 Fish 16/18 Birds 2/2	Bivalves 0.000002～0.000021 Fish 0.000002～0.000073 Birds 0.000011～0.000020	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0046～0.11	(0.0004)					
			2019	20/48	20/48	0.00001～0.00021	(0.00001)	60/61	60/61	0.0000009～0.00014	(0.0000008)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000002～0.000015 Fish 0.000001～0.000059 Birds 0.000091	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.0043～0.18	(0.0001)					
810	Pentachlorobenzene	608-93-5	1975	0/100	0/20	—	(0.01)	0/100	0/20	—	(0.01)	Fish 3/95	Fish 1/19	Fish 0.013～0.038	(Fish 0.01)					Precipitation 0/30	0/15	－μg/L	(0.01)	810
			1979	0/111	0/37	—	(0.002～0.04)	30/111	13/37	0.0001～0.0112	(0.00001～0.01)	Fish 3/93	Fish 2/27	Fish 0.001～0.002	(Fish 0.00001～0.01)									
			1980									Bivalves 0/15 Fish 1/50	Bivalves 0/3 Fish 1/10	Bivalves － Fish 0.002	(Bivalves 0.001) (Fish 0.001)									
			1981									Bivalves 0/20 Fish 0/46 Birds 0/7	Bivalves 0/4 Fish 0/9 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1982									Bivalves 0/20 Fish 1/50 Birds 0/9	Bivalves 0/4 Fish 1/10 Birds 0/2	Bivalves － Fish 0.001 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1983									Bivalves 0/20 Fish 0/50 Birds 0/10	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 0/20 Fish 0/60 Birds 4/10	Bivalves 0/4 Fish 0/12 Birds 1/2	Bivalves － Fish － Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 0/20 Fish 0/60 Birds 2/10	Bivalves 0/4 Fish 0/12 Birds 1/2	Bivalves － Fish － Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988									Bivalves 0/20 Fish 0/65 Birds 1/10	Bivalves 0/4 Fish 0/13 Birds 1/2	Bivalves － Fish － Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990									Bivalves 0/25 Fish 0/65 Birds 0/10	Bivalves 0/5 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994									Bivalves 0/30 Fish 0/70 Birds 0/5	Bivalves 0/6 Fish 0/14 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)	9/24	3/8	1.0～8.0	(1)					
			1996									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)	39/39	13/13	0.012～1.1	(0.011)					
			2007	0/48	0/48	－	(0.0013)	79/192	35/64	0.000035～0.024	(0.000033)	Bivalves 1/31 Fish 36/80 Birds 10/10	Bivalves 1/7 Fish 10/16 Birds 2/2	Bivalves 0.00015 Fish 0.000068～0.00048 Birds 0.000089～0.00021	(Bivalves 0.000061) (Fish 0.000061) (Birds 0.000061)	W.S. 78/78 C.S. 75/75	W.S. 26/26 C.S. 25/25	W.S. 0.018～0.31 C.S. 0.027～0.22	(W.S. 0.0048) (C.S. 0.0048)					
			2009													W.S. 111/111 C.S. 111/111	W.S. 37/37 C.S. 37/37	W.S. 0.020～0.21 C.S. 0.0050～0.12	(W.S. 0.0025) (C.S. 0.0025)					
			2010	49/49	49/49	0.000001～0.00010	(0.000001)	64/64	64/64	0.000001～0.0042	(0.0000003)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.0000059～0.00011 Fish 0.0000056～0.00023 Birds 0.000049～0.00017	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.036～0.14 C.S. 0.037～0.18	(W.S. 0.0005) (C.S. 0.0005)					
			2011	49/49	49/49	0.0000026～0.00017	(0.0000009)	64/64	64/64	0.000003～0.0045	(0.000002)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000010～0.00026 Fish 0.000005～0.00022 Birds 0.000052	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.030～0.14 C.S. 0.026～0.18	(W.S. 0.0007) (C.S. 0.0007)					
			2012	48/48	48/48	0.000003～0.00017	(0.000001)	62/63	62/63	0.0000012～0.0011	(0.0000008)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000058～0.00011 Fish 0.0000050～0.00019 Birds 0.000046～0.00013	(Bivalves 0.0000027) (Fish 0.0000027) (Birds 0.0000027)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.031～0.15 C.S. 0.027～0.12	(W.S. 0.0006) (C.S. 0.0006)					
			2013	48/48	48/48	0.000003～0.00017	(0.000001)	63/63	63/63	0.0000022～0.0038	(0.0000007)	Bivalves 1/5 Fish 11/19 Birds 2/2	Bivalves 1/5 Fish 11/19 Birds 2/2	Bivalves 0.000087 Fish 0.000028～0.00016 Birds 0.00023～0.00039	(Bivalves 0.000026) (Fish 0.000026) (Birds 0.000026)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.027～0.16 C.S. 0.034～0.11	(W.S. 0.0006) (C.S. 0.0006)					
			2014	48/48	48/48	0.0000028～0.00018	(0.0000003)	63/63	63/63	0.0000012～0.0036	(0.0000008)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.00001～0.000023 Fish 0.0000038～0.00028 Birds 0.0000056～0.00056	(Bivalves 0.0000031) (Fish 0.0000031) (Birds 0.0000031)	36/36	36/36	0.039～0.21	(0.0003)					
			2015	48/48	48/48	0.0000030～0.00018	(0.0000005)	62/62	62/62	0.0000024～0.0026	(0.0000005)	Bivalves 3/3 Fish 18/19 Birds 1/1	Bivalves 3/3 Fish 18/19 Birds 1/1	Bivalves 0.0000074～0.000018 Fish 0.0000045～0.00023 Birds 0.000053	(Bivalves 0.0000040) (Fish 0.0000040) (Birds 0.0000040)	35/35	35/35	0.034～0.17	(0.0002)					
			2016					62/62	62/62	0.0000011～0.0037	(0.0000006)	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 0.000011～0.000015 Fish 0.0000055～0.00015 Birds 0.00010～0.00057	(Bivalves 0.0000051) (Fish 0.0000051) (Birds 0.0000051)	37/37	37/37	0.033～0.22	(0.0002)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2017	47/47	47/47	0.0000020～0.00014	(0.0000006)	62/62	62/62	0.0000013～0.0028	(0.0000005)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000014～0.000022 Fish 0.000004～0.00017 Birds 0.000035～0.00047	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.032～0.20	(0.0001)					
			2018	47/47	47/47	0.0000027～0.00032	(0.0000005)	61/61	61/61	0.0000012～0.0034	(0.0000003)	Bivalves 3/3 Fish 15/18 Birds 2/2	Bivalves 3/3 Fish 15/18 Birds 2/2	Bivalves 0.000005～0.000013 Fish 0.000006～0.000070 Birds 0.00028～0.00048	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	37/37	37/37	0.030～0.10	(0.00008)					
			2019	48/48	48/48	0.000002～0.00036	(0.000002)	61/61	61/61	0.0000012～0.0033	(0.0000004)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000007～0.000014 Fish 0.000003～0.00028 Birds 0.00047	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.036～0.11	(0.00004)					
			2020	46/46	46/46	0.000002～0.00050	(0.000001)	58/58	58/58	0.0000018～0.0029	(0.0000002)	Bivalves 3/3 Fish 14/18 Birds 1/1	Bivalves 3/3 Fish 14/18 Birds 1/1	Bivalves 0.000008～0.000009 Fish 0.000006～0.00012 Birds 0.00039	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.035～0.18	(0.00007)					
			2021	47/47	47/47	0.0000012～0.00014	(0.0000004)	60/60	60/60	0.0000008～0.0023	(0.0000003)	Bivalves 3/3 Fish 16/18 Birds 2/2	Bivalves 3/3 Fish 16/18 Birds 2/2	Bivalves 0.000004～0.000015 Fish 0.000008～0.00015 Birds 0.00030～0.00047	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	35/35	35/35	0.036～0.13	(0.00005)					
			2022	48/48	48/48	0.0000009～0.000051	(0.0000002)	61/61	61/61	0.0000005～0.0013	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000019～0.0000098 Fish 0.0000036～0.000078 Birds 0.00026～0.00033	(Bivalves 0.0000002) (Fish 0.0000002) (Birds 0.0000002)	36/36	36/36	0.030～0.13	(0.00003)					
			2023									Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.0000060～0.0000061 Fish 0.0000034～0.00015 Birds 0.00022～0.00038	(Bivalves 0.0000002) (Fish 0.0000002) (Birds 0.0000002)	35/35	35/35	0.036～0.17	(0.00008)					
			2024									Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.0000032～0.0000065 Fish 0.0000010～0.000058 Birds 0.00028～0.00052	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	35/35	35/35	0.037～0.087	(0.00002)					
811	Pentachloroethane	76-01-7	1984	0/21	0/7	—	(0.005～0.04)	0/21	0/7	—	(0.00003～0.00050)													811
812	Pentachloronitrobenzene	82-68-8	1981	0/12	0/4	—	(0.01)	0/12	0/4	—	(0.0005)													812
			1991	0/57	0/19	—	(0.42)	0/51	0/17	—	(0.039)	Fish 0/51	Fish 0/17	Fish —	(Fish 0.035)	5/48	4/16	6.2～13	(6)					
			2004					0/36	0/12	—	(0.013)	Fish 0/24	Fish 0/8	Fish —	(Fish 0.001)	1/45	1/15	4.5	(0.3)					
813	Pentachlorophenol	87-86-5	1974	2/55	1/11	0.2	(0.1)	10/50	2/10	0.08～0.36	(0.01～0.05)													813
			1996	0/33	0/11	—	(0.2)	2/33	2/11	0.011～0.014	(0.01)													
			2005	0/27	0/9	—	(0.010)																	
			2015	25/48	25/48	0.000089～0.026	(0.000085)																	
			2016									Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.000030～0.000065 Fish 0.000025～0.00099 Birds 0.00044～0.0031	(Bivalves 0.000021) (Fish 0.000021) (Birds 0.000021)	37/37	37/37	0.0006～0.025	(0.0002)					
			2017	43/47	43/47	0.000014～0.0035	(0.000010)	62/62	62/62	0.000008～0.0074	(0.000002)	Bivalves 1/3 Fish 14/19 Birds 2/2	Bivalves 1/3 Fish 14/19 Birds 2/2	Bivalves 0.000035 Fish 0.000012～0.00011 Birds 0.00030～0.011	(Bivalves 0.000012) (Fish 0.000012) (Birds 0.000012)	37/37	37/37	0.0007～0.033	(0.0002)					
			2018	44/47	44/47	0.000009～0.0044	(0.000009)	59/61	59/61	0.000008～0.0039	(0.000006)	Bivalves 3/3 Fish 13/18 Birds 2/2	Bivalves 3/3 Fish 13/18 Birds 2/2	Bivalves 0.00001～0.00003 Fish 0.00001～0.00008 Birds 0.00018～0.0012	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	37/37	37/37	0.0009～0.03	(0.0002)					
			2019	32/48	32/48	0.00002～0.0035	(0.00002)	61/61	61/61	0.000007～0.0062	(0.000002)	Bivalves 3/3 Fish 14/16 Birds 1/1	Bivalves 3/3 Fish 14/16 Birds 1/1	Bivalves 0.000013～0.000054 Fish 0.000007～0.000057 Birds 0.00043	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	36/36	36/36	0.0006～0.022	(0.0002)					
814	Pentaerythritol	115-77-5	1997	0/33	0/11	—	(0.52)	0/33	0/11	—	(0.06)													814
815	Pentanal		2010	3/51	2/17	0.022～0.037	(0.021)																	815
816	4-*tert*-Pentylphenol	80-46-6	2008	0/99	0/33	—	(0.0011)	13/78	6/26	0.00029～0.00044	(0.00028)													816
817	Perfluorododecanoic acid	307-55-1	2010	8/81	3/27	0.0001～0.0003	(0.0001)																	817
			2011					49/105	22/35	0.000025～0.003	(0.000023)													
818	Perfluorohexadecanoic acid	67905-19-5	2010	0/81	0/27	—	(0.000061)																	818
			2011					14/105	5/35	0.00006～0.00059	(0.000048)													

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
819	Perfluorohexane sulfonic acid (PFHxS)	355-46-4	2018	44/47	44/47	0.00005～0.0026	(0.00005)	15/61	15/61	0.000005～0.000027	(0.000005)													819
			2019	45/48	45/48	0.00003～0.0018	(0.00003)	10/61	10/61	0.000005～0.000015	(0.000005)													
			2020	44/46	44/46	0.000029～0.0015	(0.00002)	13/58	13/58	0.000003～0.000010	(0.000003)	Bivalves 2/3 Fish 10/18 Birds 1/1	Bivalves 2/3 Fish 10/18 Birds 1/1	Bivalves 0.000003 Fish 0.000002～0.000018 Birds 0.00019	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0007～0.0061	(0.0001)					
			2021	44/47	44/47	0.00004～0.0023	(0.00003)	19/60	19/60	0.000003～0.000015	(0.000003)	Bivalves 1/3 Fish 7/18 Birds 2/2	Bivalves 1/3 Fish 7/18 Birds 2/2	Bivalves 0.000003 Fish 0.000003～0.000016 Birds 0.000010～0.000040	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	35/35	35/35	0.00046～0.0066	(0.00007)					
			2022	42/48	42/48	0.00003～0.0018	(0.00003)	28/61	28/61	0.000003～0.000016	(0.000003)	Bivalves 0/3 Fish 10/18 Birds 2/2	Bivalves 0/3 Fish 10/18 Birds 2/2	Bivalves － Fish 0.000005～0.00002 Birds 0.00025～0.00063	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	36/36	36/36	0.00079～0.007	(0.00004)					
			2023	38/47	38/47	0.00004～0.0022	(0.00003)	19/60	19/60	0.000004～0.000020	(0.000003)	Bivalves 0/2 Fish 7/18 Birds 2/2	Bivalves 0/2 Fish 7/18 Birds 2/2	Bivalves － Fish 0.000005～0.000034 Birds 0.000056～0.00023	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	35/35	35/35	0.0008～0.0056	(0.0002)					
			2024	38/47	38/47	0.00005～0.0023	(0.00004)	15/60	15/60	0.000003～0.000018	(0.000003)	Bivalves 0/3 Fish 9/16 Birds 2/2	Bivalves 0/3 Fish 9/16 Birds 2/2	Bivalves － Fish 0.000005～0.0019 Birds 0.000094～0.00018	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	35/35	35/35	0.0007～0.0061	(0.0002)					
820	Perfluorooctane sulfonic acid (PFOS)******	1763-23-1	2002	60/60	20/20	0.00007～0.024	(0.00004)																	820
			2003					25/60	10/20	0.00011～0.0015	(0.000096)	Fish 27/27	Fish 9/9	Fish 0.00016～0.016	(Fish 0.000033)									
			2004													57/60	20/20	0.00012～0.044	(0.00009)	Food 46/50	10/10	0.0034～0.12ng/g-wet	(0.0033)	
			2005	21/21	7/7	0.00009～0.016	(0.00005)	21/21	7/7	0.000026～0.00085	(0.0000072)	Bivalves 17/18 Fish 55/57	Bivalves 6/6 Fish 19/19	Bivalves 0.000018～0.0016 Fish 0.0066～0.025	(Bivalves 0.000018) (Fish 0.000018)									
			2009	49/49	49/49	0.000026～0.014	(0.000014)	180/190	64/64	0.0000051～0.0019	(0.0000037)	Bivalves 17/31 Fish 83/90 Birds 10/10	Bivalves 5/7 Fish 17/18 Birds 2/2	Bivalves 0.000018～0.00064 Fish 0.0000090～0.015 Birds 0.000037～0.00089	(Bivalves 0.0000074) (Fish 0.0000074) (Birds 0.0000074)									
			2010	49/49	49/49	0.000037～0.23	(0.00002)	64/64	64/64	0.000003～0.0017	(0.000002)	Bivalves 5/6 Fish 17/18 Birds 2/2	Bivalves 5/6 Fish 17/18 Birds 2/2	Bivalves 0.000037～0.00068 Fish 0.000026～0.015 Birds 0.00058～0.0030	(Bivalves 0.0000096) (Fish 0.0000096) (Birds 0.0000096)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0016～0.014 C.S. 0.0014～0.015	(W.S. 0.0001) (C.S. 0.0001)					
			2011	49/49	49/49	0.00002～0.010	(0.00002)	63/64	63/64	0.000008～0.0011	(0.000002)	Bivalves 4/4 Fish 16/18 Birds 1/1	Bivalves 4/4 Fish 16/18 Birds 1/1	Bivalves 0.000016～0.00010 Fish 0.000005～0.0032 Birds 0.00011	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.0009～0.010 C.S. 0.0013～0.0095	(W.S. 0.0002) (C.S. 0.0002)					
			2012	48/48	48/48	0.000039～0.014	(0.000012)	63/63	63/63	0.000007～0.0012	(0.000004)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000004～0.00016 Fish 0.000005～0.0073 Birds 0.000063～0.00041	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0013～0.0089 C.S. 0.0010～0.0059	(W.S. 0.0002) (C.S. 0.0002)					
			2013													W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0012～0.0096 C.S. 0.0016～0.0074	(W.S. 0.0001) (C.S. 0.0001)					
			2014	47/48	47/48	0.00003～0.0075	(0.00002)	62/63	62/63	0.000004～0.00098	(0.000002)	Bivalves 2/3 Fish 18/19 Birds 2/2	Bivalves 2/3 Fish 18/19 Birds 2/2	Bivalves 0.000006～0.000093 Fish 0.000002～0.0046 Birds 0.00019～0.11	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	36/36	36/36	0.00052～0.0086	(0.00006)					
			2015	48/48	48/48	0.00012～0.0047	(0.000011)	62/62	62/62	0.000007～0.0022	(0.000001)	Bivalves 2/3 Fish 18/19 Birds 1/1	Bivalves 2/3 Fish 18/19 Birds 1/1	Bivalves 0.000002～0.00021 Fish 0.000012～0.0025 Birds 0.00079	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	35/35	35/35	0.00059～0.0088	(0.00006)					
			2016	48/48	48/48	0.000023～0.014	(0.000020)	62/62	62/62	0.000005～0.00069	(0.000002)	Bivalves 2/3 Fish 18/19 Birds 2/2	Bivalves 2/3 Fish 18/19 Birds 2/2	Bivalves 0.000006～0.00016 Fish 0.000009～0.0052 Birds 0.0014～0.0091	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	37/37	37/37	0.0007～0.0093	(0.0002)					
			2017									Bivalves 2/3 Fish 19/19 Birds 2/2	Bivalves 2/3 Fish 19/19 Birds 2/2	Bivalves 0.000034～0.00016 Fish 0.000004～0.011 Birds 0.0030～0.032	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	37/37	37/37	0.0011～0.0089	(0.0001)					
			2018	42/47	42/47	0.00007～0.0041	(0.00003)	55/61	55/61	0.000004～	(0.000003)													
			2019	47/48	47/48	0.00003～0.0025	(0.00003)	60/61	60/61	0.000005～0.00046	(0.000004)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000002～0.00014 Fish 0.000003～0.0036 Birds 0.00036	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	36/36	36/36	0.0013～0.0078	(0.0003)					
			2020	46/46	46/46	0.000052～0.0037	(0.00003)	58/58	58/58	0.000003～0.00045	(0.000002)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.000004～0.00013 Fish 0.000005～0.0030 Birds 0.0085	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0011～0.0072	(0.0001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2021	47/47	47/47	0.00003～0.0037	(0.00003)	60/60	60/60	0.000005～0.00062	(0.000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000002～0.00025 Fish 0.000002～0.0045 Birds 0.00059～0.015	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	35/35	35/35	0.00070～0.0065	(0.00007)					
			2022	46/48	46/48	0.00003～0.0036	(0.00003)	61/61	61/61	0.000005～0.00071	(0.000004)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000009～0.00016 Fish 0.000009～0.0072 Birds 0.0052～0.10	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	36/36	36/36	0.0012～0.0086	(0.00007)					
			2023	43/47	43/47	0.00004～0.0041	(0.00003)	58/60	58/60	0.000004～0.00066	(0.000004)	Bivalves 1/2 Fish 17/18 Birds 2/2	Bivalves 1/2 Fish 17/18 Birds 2/2	Bivalves 0.000005 Fish 0.000014～0.0049 Birds 0.0014～0.10	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	35/35	35/35	0.001～0.0068	(0.0002)					
			2024	45/47	45/47	0.00004～0.0031	(0.00003)	60/60	60/60	0.000005～0.00030	(0.000004)	Bivalves 2/3 Fish 16/16 Birds 2/2	Bivalves 2/3 Fish 16/16 Birds 2/2	Bivalves 0.000008～0.00012 Fish 0.000015～0.011 Birds 0.0012～0.036	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	35/35	35/35	0.0011～0.0071	(0.0002)					
821	Perfluorooctanoic acid (PFOA)******	335-67-1	2002	60/60	20/20	0.00033～0.10	(0.00004)																	821
			2003					29/60	12/20	0.000071～0.00055	(0.000070)	Fish 6/27	Fish 4/9	Fish 0.000064～0.00010	(Fish 0.000059)									
			2004													60/60	20/20	0.00022～5.3	(0.00014)	Food 10/50	6/10	0.010～0.024ng/g-wet	(0.010)	
			2005	21/21	7/7	0.00024～0.047	(0.00004)	11/18	5/6	0.00006～0.0013	(0.000024)	Bivalves 18/18 Fish 49/57	Bivalves 6/6 Fish 17/19	Bivalves 0.000043～0.00027 Fish 0.000034～0.00066	(Bivalves 0.000034) (Fish 0.000034)									
			2009	49/49	49/49	0.00025～0.031	(0.000023)	182/190	64/64	0.0000033～0.00050	(0.0000033)	Bivalves 27/31 Fish 74/90 Birds 10/10	Bivalves 7/7 Fish 17/18 Birds 2/2	Bivalves 0.000010～0.000094 Fish 0.000010～0.00049 Birds 0.000016～0.000058	(Bivalves 0.0000099) (Fish 0.0000099) (Birds 0.0000099)									
			2010	49/49	49/49	0.00019～0.023	(0.00002)	62/64	62/64	0.000005～0.00018	(0.000005)	Bivalves 5/6 Fish 13/18 Birds 2/2	Bivalves 5/6 Fish 13/18 Birds 2/2	Bivalves 0.000023～0.000076 Fish 0.000010～0.000095 Birds 0.000030～0.000048	(Bivalves 0.0000099) (Fish 0.0000099) (Birds 0.0000099)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0040～0.21 C.S. 0.0024～0.13	(W.S. 0.0002) (C.S. 0.0002)					
			2011	49/49	49/49	0.00038～0.050	(0.00002)	64/64	64/64	0.000022～0.0011	(0.000002)	Bivalves 3/4 Fish 7/18 Birds 0/1	Bivalves 3/4 Fish 7/18 Birds 0/1	Bivalves 0.000018～0.00004 Fish 0.000014～0.000051 Birds －	(Bivalves 0.000014) (Fish 0.000014) (Birds 0.000014)	W.S. 35/35 C.S. 36/37	W.S. 35/35 C.S. 36/37	W.S. 0.0035～0.24 C.S. 0.0033～0.097	(W.S. 0.0018) (C.S. 0.0018)					
			2012	48/48	48/48	0.00024～0.026	(0.000055)	63/63	63/63	0.000012～0.00028	(0.000002)	Bivalves 4/5 Fish 18/19 Birds 2/2	Bivalves 4/5 Fish 18/19 Birds 2/2	Bivalves 0.000016～0.000046 Fish 0.000020～0.000086 Birds 0.000026～0.000028	(Bivalves 0.000013) (Fish 0.000013) (Birds 0.000013)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0019～0.12 C.S. 0.0016～0.048	(W.S. 0.0002) (C.S. 0.0002)					
			2014	48/48	48/48	0.00014～0.026	(0.00002)	63/63	63/63	0.000006～0.00019	(0.000005)	Bivalves 2/3 Fish 11/19 Birds 1/2	Bivalves 2/3 Fish 11/19 Birds 1/2	Bivalves 0.000006～0.00001 Fish 0.000004～0.000085 Birds 0.0026	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	36/36	36/36	0.0054～0.21	(0.0001)					
			2013													W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0032～0.19 C.S. 0.0030～0.053	(W.S. 0.0006) (C.S. 0.0006)					
			2014	48/48	48/48	0.00014～0.026	(0.00002)	63/63	63/63	0.000006～0.00019	(0.000005)	Bivalves 2/3 Fish 11/19 Birds 1/2	Bivalves 2/3 Fish 11/19 Birds 1/2	Bivalves 0.000006～0.000010 Fish 0.000004～0.000085 Birds 0.0026	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	36/36	36/36	0.0054～0.21	(0.0001)					
			2015	48/48	48/48	0.00031～0.017	(0.000022)	62/62	62/62	0.000008～0.00027	(0.000001)	Bivalves 2/3 Fish 11/19 Birds 1/1	Bivalves 2/3 Fish 11/19 Birds 1/1	Bivalves 0.0000063～0.000026 Fish 0.0000043～0.000099 Birds 0.000031	(Bivalves 0.0000034) (Fish 0.0000034) (Birds 0.0000034)	35/35	35/35	0.0037～0.26	(0.0014)					
			2016	48/48	48/48	0.00026～0.021	(0.000020)	61/62	61/62	0.000005～0.00019	(0.000004)	Bivalves 2/3 Fish 19/19 Birds 2/2	Bivalves 2/3 Fish 19/19 Birds 2/2	Bivalves 0.000007～0.000009 Fish 0.000002～0.000020 Birds 0.000052～0.00032	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0032～0.14	(0.0004)					
			2017									Bivalves 2/3 Fish 12/19 Birds 2/2	Bivalves 2/3 Fish 12/19 Birds 2/2	Bivalves 0.000007～0.000018 Fish 0.000004～0.000079 Birds 0.000085～0.00068	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	37/37	37/37	0.0020～0.15	(0.0011)					
			2018	47/47	47/47	0.00016～0.028	(0.00003)	58/61	58/61	0.000005～	(0.000004)													
			2019	48/48	48/48	0.00016～0.011	(0.00004)	61/61	61/61	0.000003～0.00019	(0.000002)	Bivalves 3/3 Fish 12/16 Birds 1/1	Bivalves 3/3 Fish 12/16 Birds 1/1	Bivalves 0.000002～0.000005 Fish 0.000002～0.000018 Birds 0.000027	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	36/36	36/36	0.0055～0.046	(0.0003)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2020	46/46	46/46	0.00022～0.016	(0.00003)	57/58	57/58	0.000005～0.00019	(0.000003)	Bivalves 3/3 Fish 12/18 Birds 1/1	Bivalves 3/3 Fish 12/18 Birds 1/1	Bivalves 0.000003～0.000014 Fish 0.000002～0.000049 Birds 0.00028	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0049～0.055	(0.0003)					
			2021	47/47	47/47	0.00023～0.023	(0.00004)	58/60	58/60	0.000005～0.00026	(0.000004)	Bivalves 2/3 Fish 14/18 Birds 2/2	Bivalves 2/3 Fish 14/18 Birds 2/2	Bivalves 0.000011～0.000016 Fish 0.000002～0.000040 Birds 0.000046～0.00041	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	35/35	35/35	0.0026～0.042	(0.0003)					
			2022	48/48	48/48	0.00017～0.014	(0.00003)	61/61	61/61	0.000005～0.00037	(0.000003)	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 0.000005～0.000035 Fish 0.000004～0.000047 Birds 0.00047～0.0026	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	36/36	36/36	0.0041～0.026	(0.0002)					
			2023	47/47	47/47	0.00014～0.011	(0.00003)	57/60	57/60	0.000003～0.00041	(0.000003)	Bivalves 1/2 Fish 11/18 Birds 2/2	Bivalves 1/2 Fish 11/18 Birds 2/2	Bivalves 0.000013 Fish 0.000005～0.000029 Birds 0.000066～0.0020	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	35/35	35/35	0.004～0.065	(0.0002)					
			2024	47/47	47/47	0.00021～0.034	(0.00003)	59/60	59/60	0.000003～0.00022	(0.000003)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.000009～0.000023 Fish 0.000003～0.000028 Birds 0.00010～0.00093	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	35/35	35/35	0.0035～0.031	(0.0002)					
822	Perfluorotetradecanoic acid	376-06-7	2010	0/81	0/27	—	(0.0001)																	822
			2011					35/105	15/35	0.000036～0.0017	(0.000036)													
	Permethrin	See 3-Phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate																						
	PFOA	See Perfluorooctanoic acid																						
	PFOS	See Perfluorooctane sulfonic acid																						
	PHC	See 2-Isopropylphenyl *N*-methylcarbamate																						
	Phenanthrene	See Polycyclic aromatic hydrocarbons																						
823	*p*-Phenetidine	156-43-4	1977	0/6	0/2	—	(1～5)	0/6	0/2	—	(0.5～1.0)													823
			1985	0/33	0/11	—	(0.05)	0/33	0/11	—	(0.005)													
			1998	1/39	1/13	0.36	(0.3)	0/39	0/13	—	(0.02)													
			2005	0/15	0/5	—	(0.035)																	
824	Phenol	108-95-2	1977	0/9	0/3	—	(0.2～10)	3/9	1/3	0.03～0.04	(0.01～0.1)													824
			1996	76/136	34/46	0.030～1.47	(0.03)	110/129	45/48	0.0055～0.94	(0.0054)	Fish 63/133	Fish 27/44	Fish 0.020～0.586	(Fish 0.02)	40/47	15/16	50.1～760	(50)					
			1998	15/30	5/10	0.066～0.7	(0.03)	23/29	8/10	0.012～0.50	(0.0054)	Fish 16/30	Fish 8/11	Fish 0.024～0.062	(Fish 0.02)									
			2003	10/114	6/38	0.028～0.67	(0.028)																	
825	Phenothiazine	92-84-2	1986	0/24	0/8	—	(0.5)	0/24	0/8	—	(1.5)													825
826	3-Phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	52645-53-1	2018	0/25	0/25	—	(0.00031)	39/53	14/18	0.00031～0.032	(0.00022)													826
	(Phenoxymethyl)oxirane	See 2,3-Epoxypropyl phenyl ether																						
	Phenthoate	See Ethyl 2-[(dimethoxyphosphinothioyl)thio]-2-phenylacetate																						
827	1-Phenylazo-2-naphthol	842-07-9	1988	0/72	0/24	—	(0.5)	0/72	0/24	—	(0.10)													827
	1-Phenyl-1-(2,4-dimethyl)ethane	See 4-(1-Phenylethyl)-*m*-xylene																						
	1-Phenyl-1-(3,4-dimethyl)ethane	See 1,2-Dimethyl-4-(1-phenylethyl)benzene																						
828	*o*-Phenylenediamine	95-54-5	1978	0/24	0/8	—	(5～20)	0/24	0/8	—	(1.0～2.2)													828
			2012	0/22	0/22	—	(0.015)																	
829	*m*-Phenylenediamine	108-45-2	1978	0/24	0/8	—	(5～20)	0/24	0/8	—	(1.0～2.2)													829
			2005	0/12	0/4	—	(0.45)																	
			2012	0/22	0/22	—	(0.010)																	
830	*p*-Phenylenediamine	106-50-3	1978	0/24	0/8	—	(5～20)	0/24	0/8	—	(1.0～2.2)													830
			2012	0/22	0/22	—	(0.016)																	
831	*p*-(1-Phenylethyl)phenol	1988-89-2	1978	0/45	0/15	—	(0.02～10)	0/45	0/15	—	(0.0013～1)													831
832	4-(1-Phenylethyl)-*m*-xylene	6165-52-2	1977	0/18	0/16	—	(0.01～5)	9/18	3/16	0.013～0.16	(0.0013～0.3)	Fish 8/18	Fish 5/5	Fish 0.00041～0.0046	(Fish 0.0002～0.3)									832
			1980	0/120	0/40	—	(0.005～20)	3/120	1/40	0.022～0.027	(0.002～1.0)	Fish 0/108	Fish 0/28	Fish —	(Fish 0.001～2.5)									
833	Phenylhydrazine	100-63-0	1986	0/30	0/10	—	(2)	0/30	0/10	—	(0.2)													833
834	*N*-Phenyl-1-naphthylamine	90-30-2	1980	0/36	0/12	—	(0.025～0.1)	9/36	5/12	0.0044～0.04	(0.0013～0.02)													834
			1981	0/126	0/42	—	(0.1)	0/126	0/42	—	(0.005)	Fish 0/123	Fish 0/36	Fish —	(Fish 0.005)									
	N-Phenyl-2-naphthylamine	See *N*-2-naphthylaniline																						
835	Phenyl oxirane (synonym: Styrene oxide)	96-09-3	2007	0/15	0/5	—	(0.012)																	835
836	2-Phenylphenol	90-43-7	1978	0/30	0/10	—	(0.02～12.5)	0/30	0/10	—	(0.02～0.68)													836
			1999	0/30	0/10	—	(0.008)	0/36	0/12	—	(0.0068)	Fish 1/33	Fish 1/11	Fish 0.013	(Fish 0.0032)									
	o-Phenylphenol	See 2-Phenylphenol																						
837	*m*-Phenylphenol	580-51-8	1978	0/30	0/10	—	(0.02～50)	0/30	0/10	—	(0.06～2.5)													837
838	*p*-Phenylphenol	92-69-3	1978	0/30	0/10	—	(0.02～50)	0/30	0/10	—	(0.06～2.5)													838
			1999	2/27	1/9	0.007～0.009	(0.006)	1/36	1/12	0.002	(0.0016)	Fish 1/33	Fish 1/11	Fish 0.010	(Fish 0.0020)									
839	4-(2-Phenylpropane-2-yl)phenol	52829-07-9	2014	10/20	10/20	0.0029～0.094	(0.0025)																	839
	2-Phenylpropylene	See *alpha*-Methylstyrene																						
840	6-Phenyl-1,3,5-triazine-2,4-diamine	91-76-9	2008	18/24	6/8	0.0015～0.012	(0.0010)									11/13	5/5	0.022～0.22	(0.019)					840
	1-Phenyl-1-(3,4-xylyl)ethane	See 1,2-Dimethyl-4-(1-phenylethyl)benzene																						
	Phorone	See 2,6-Dimethyl-2,5-heptadien-4-one																						
	Phosalone	See *O*,*O*-Dimethyl *S*-phthalimidylmethyl dithiophosphate																						
	Phosmet	See *O*,*O*-Dimethyl *S*-phthalimidylmethyl dithiophosphate																						
841	*N*-(Phosphonomethyl)glycine (synonym: Glyphosate)	1071-83-6	1993	0/33	0/11	—	(0.2)	0/30	0/10	—	(0.009)	Fish 0/30	Fish 0/10	Fish —	(Fish 0.4)									841
	Phoxim	See *alpha*-(Diethoxyphosphinothioylimino) phenylacetonitrile																						
842	Phthalate esters	Unknown	1975	54/115	14/23	7.9～77,000	(10～10,000)																	842

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
842-1	Dimethyl phthalate	131-11-3	1985	0/27	0/9	—	(0.1)	0/27	0/9	—	(0.01)													842-1
			2007	17/21	7/7	0.0022～0.0097	(0.0017)	16/16	6/6	0.00054～0.0063	(0.00035)													
			2020	5/34	5/34	0.015～0.12	(0.011)																	
842-2	Diethyl phthalate	84-66-2	1985	0/27	0/9	—	(0.2)	0/27	0/9	—	(0.02)													842-2
			2020	5/34	5/34	0.024～0.048	(0.023)																	
842-3	Diallyl phthalate	131-17-9	1985	0/27	0/9	—	(0.2)	0/27	0/9	—	(0.02)													842-3
842-4	Di-*n* -butyl phthalate	84-74-2	1974	208/375	49/75	0.05～36	(0.05～40)	154/370	42/75	0.001～2.3	(0.001～0.28)	Fish 114/332 Plankton 0/4	Fish 33/67 Plankton 0/2	Fish 0.006～1.95 Plankton —	(Fish 0.01～0.87) (Plankton 0.1～5)					Precipitation 68/111	35/53	0.00013～0.052ppm	(0.0001～0.004)	842-4
			1975	77/115	18/23	13～21,000	(10～3,000)																	
			1980									Bivalves 0/15 Fish 0/50	Bivalves 0/3 Fish 0/10	Bivalves — Fish —	(Bivalves 0.1) (Fish 0.1)									
			1981									Bivalves 0/20 Fish 0/46 Birds 0/7	Bivalves 0/4 Fish 0/9 Birds 0/1	Bivalves — Fish — Birds —	(Bivalves 0.1) (Fish 0.1～1.0) (Birds 0.1)									
			1982	42/45	15/15	0.060～1.5	(0.03～0.1)	39/45	14/15	0.0097～0.14	(0.0007～0.005)	Bivalves 0/20 Fish 0/50 Birds 0/9	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.1) (Fish 0.1～0.5) (Birds 0.1)									
			1983									Bivalves 0/20 Fish 0/50 Birds 0/10	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1984									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1985									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)	56/63	12/12	17～370	(5～70)					
			1987									Bivalves 0/20 Fish 0/65 Birds 0/10	Bivalves 0/4 Fish 0/13 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1989									Bivalves 1/21 Fish 0/65 Birds 0/10	Bivalves 1/5 Fish 0/13 Birds 0/2	Bivalves 0.3 Fish — Birds —	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1991									Bivalves 2/30 Fish 0/65 Birds 0/10	Bivalves 1/6 Fish 0/13 Birds 0/2	Bivalves 0.1～0.2 Fish — Birds —	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1993									Bivalves 3/30 Fish 0/70 Birds 0/10	Bivalves 1/6 Fish 0/14 Birds 0/2	Bivalves 0.1～0.3 Fish — Birds —	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1995									Bivalves 2/30 Fish 0/70 Birds 0/10	Bivalves 1/6 Fish 0/14 Birds 0/2	Bivalves 0.1 Fish — Birds —	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1996	5/30	3/10	0.2～1.4	(0.2)	7/30	3/10	0.15～0.58	(0.14)	Fish 9/30	Fish 3/10	Fish 0.054～0.30	(Fish 0.04)	13/15	5/5	10～140	(10)					
			1999									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			2006									Bivalves 5/31 Fish 45/80 Birds 1/10	Bivalves 3/7 Fish 15/16 Birds 1/2	Bivalves 0.017～0.035 Fish 0.015～0.99 Birds 0.035	(Bivalves 0.015) (Fish 0.015) (Birds 0.015)									
			2008	18/45	18/45	0.11～0.66	(0.069)	33/184	22/62	0.047～0.78	(0.044)	Bivalves 2/31 Fish 34/85 Birds 0/10	Bivalves 2/7 Fish 12/17 Birds 0/2	Bivalves 0.038～0.10 Fish 0.03～0.18 Birds —	(Bivalves 0.030) (Fish 0.030) (Birds 0.030)									
			2020	7/34	7/34	0.071～0.12	(0.018)																	
842-5	Diisobutyl phthalate	84-69-5	1974	38/375	8/75	0.10～12.27	(0.01～1)	57/350	15/71	0.00075～3.73	(0.00005～0.1)	Fish 22/312 Plankton 0/4	Fish 7/63 Plankton 0/2	Fish 0.15～0.47 Plankton —	(Fish 0.00005～0.2) (Plankton 0.01～5)					Precipitation 11/111	7/53	0.00015～0.0344ppm	(0.00004～0.001)	842-5
			1996	0/33	0/11	—	(0.2)	0/33	0/11	—	(0.026)					1/18	1/6	3.3	(2.5)					
			2020	2/34	2/34	0.076～0.15	(0.026)																	
842-6	*n* -Butyl benzyl phthalate	85-68-7	1985	0/27	0/9	—	(0.1)	2/27	2/9	0.013～0.016	(0.01)													842-6
			2000	0/138	0/46	—	(0.14)	25/138	11/46	32～134	(28)													
			2010													9/33	3/11	0.57～29	(0.56)					
			2012	2/23	2/23	0.14～0.19	(0.08)	60/69	21/23	0.00057～0.18	(0.00056)	Bivalves & Fish 9/39	Bivalves & Fish 3/13	Bivalves & Fish 0.00067～0.0014	(Bivalves & Fish 0.00059)									
842-7	Dicyclohexyl phthalate	84-61-7	1985	0/27	0/9	—	(0.4)	0/27	0/9	—	(0.05)													842-7
842-8	Di-*n* -hexyl phthalate	84-75-3	2020	0/34	0/34	—	(0.0063)																	842-8
842-9	Di-*n* -heptyl phthalate	3648-21-3	1982	3/45	2/15	0.2～0.4	(0.1～0.2)	7/45	3/15	0.071～0.30	(0.003～0.01)													842-9
			1996	0/33	0/11	—	(1)	0/33	0/11	—	(1.5)					3/15	1/5	10～17	(6)					
842-10	Diisoheptyl phthalate	41451-28-9	1974	23/375	8/75	0.12～1.1	(0.04～10)	30/350	12/71	0.008～6.48	(0.00005～1)	Fish 13/312 Plankton 0/4	Fish 4/63 Plankton 0/2	Fish 0.14～0.36 Plankton —	(Fish 0.00005～5.0) (Plankton 0.01～10)					Precipitation 22/111	15/53	0.00016～0.0085ppm	(0.00005～0.010)	842-10
842-11	Dioctyl phthalates	27554-26-3 etc.	2020	8/34	8/34	0.14～0.59	(0.13)																	842-11
842-11-1	Di-*n* -octyl phthalate	117-84-0	1974	4/355	1/71	1～41	(0.05～50)	3/331	2/67	0.72～4.4	(0.00005～5)	Fish 0/292 Plankton 0/4	Fish 0/59 Plankton 0/2	Fish — Plankton —	(Fish 0.00005～25) (Plankton 0.01～10)					Precipitation 1/105	1/50	0.012ppm	(0.00005～0.050)	842-11-1
			1982	0/45	0/15	—	(0.05～0.5)	0/45	0/15	—	(0.002～0.02)													
			1996	0/33	0/11	—	(0.2)	3/33	1/11	0.28～1.41	(0.13)					0/18	0/6	—	(12)					
			2020	0/34	0/34	—	(0.0079)																	
842-11-2	Bis(2-ethylhexyl) phthalate (synonym: DEHP)	117-81-7	1974	176/375	44/75	0.08～15.0	(0.01～2.0)	224/370	53/75	0.003～17.0	(0.003～0.2)	Fish 92/332 Plankton 1/4	Fish 25/67 Plankton 1/2	Fish 0.009～19 Plankton 6.3	(Fish 0.02～1.0) (Plankton 0.05)					Precipitation 69/111	35/53	0.00005～0.013ppm	(0.00006～0.0020)	842-11-2
			1975	58/115	12/23	0.02～1.1	(0.02～3)																	
			1980									Bivalves 0/15 Fish 0/50	Bivalves 0/3 Fish 0/10	Bivalves — Fish —	(Bivalves 0.1) (Fish 0.1)									
			1981									Bivalves 0/20 Fish 0/46 Birds 0/7	Bivalves 0/4 Fish 0/9 Birds 0/1	Bivalves — Fish — Birds —	(Bivalves 0.1) (Fish 0.1～1.0) (Birds 0.1)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1982	29/45	10/15	0.10～0.8	(0.04～0.15)	45/45	15/15	0.009～3.5	(0.001～0.007)	Bivalves 0/20 Fish 0/50 Birds 0/9	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.1～0.2) (Fish 0.1～0.5) (Birds 0.1)									
			1983									Bivalves 0/20 Fish 0/50 Birds 0/10	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1984									Bivalves 0/20 Fish 1/60 Birds 0/10	Bivalves 0/4 Fish 1/12 Birds 0/2	Bivalves － Fish 0.1 Birds －	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1985									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)	59/62	12/12	38～790	(5～50)					
			1987									Bivalves 0/20 Fish 1/65 Birds 0/10	Bivalves 0/4 Fish 1/13 Birds 0/2	Bivalves － Fish 0.2 Birds －	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1989									Bivalves 1/21 Fish 0/65 Birds 0/10	Bivalves 1/5 Fish 0/13 Birds 0/2	Bivalves 1.6 Fish － Birds －	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1991									Bivalves 3/30 Fish 0/65 Birds 0/10	Bivalves 1/6 Fish 0/13 Birds 0/2	Bivalves 0.1～0.3 Fish － Birds －	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1993									Bivalves 0/30 Fish 0/70 Birds 0/5	Bivalves 0/6 Fish 0/14 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1995									Bivalves 4/30 Fish 0/70 Birds 0/10	Bivalves 1/6 Fish 0/14 Birds 0/2	Bivalves 0.1 Fish － Birds －	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			1996	4/33	2/11	4.3～6.8	(3.9)	16/33	6/11	0.18～22	(0.15)	Fish 9/27	Fish 4/9	Fish 0.09～0.96	(Fish 0.026)	11/18	5/6	8～323	(6)					
			1999									Bivalves 0/30 Fish 2/70 Birds 0/10	Bivalves 0/6 Fish 2/14 Birds 0/2	Bivalves － Fish 0.1 Birds －	(Bivalves 0.1) (Fish 0.1) (Birds 0.1)									
			2012	13/23	13/23	0.11～1.7	(0.09)	66/69	23/23	0.0038～15	(0.0036)	Bivalves & Fish 39/39	Bivalves & Fish 13/13	Bivalves & Fish 0.0011～0.13	(Bivalves & Fish 0.00093)									
			2020	10/34	10/34	0.22～2.9	(0.19)																	
842-12	Dinonyl phthalates	28553-12-0	1996	0/33	0/11	－	(4)	0/33	0/11	－	(3.5)					0/18	0/6	－	(72)					842-12
			2001													20/21	7/7	0.42～22	(0.40)					
			2020	5/34	5/34	0.085～0.84	(0.082)																	
842-13	Didecyl phthalates	26761-40-0	1974	0/250	0/50	－	(0.05～10)	0/227	0/46	－	(0.00005～3.14)	Fish 0/200 Plankton 0/2	Fish 0/40 Plankton 0/1	Fish － Plankton －	(Fish 0.00005～5.0) (Plankton 0.01)					Precipitation 0/73	0/34	－ppm	(0.00005～0.010)	842-13
			2001													12/21	6/7	0.30～1.3	(0.30)					
			2020	7/34	7/34	0.033～0.33	(0.027)																	
842-14	Diundecyl phthalates	85507-79-5	2020	2/34	2/34	0.015～0.031	(0.013)																	842-14
842-15	Didodecyl phthalates	2432-90-8	1985	0/27	0/9	－	(2)	0/27	0/9	－	(0.1)													842-15
842-16	Ditridecyl phthalates	27253-26-5	2001													0/21	0/7	－	(0.1)					842-16
843	Phthalic acid	88-99-3	1983	0/24	0/8	－	(1～20)	0/24	0/8	－	(0.02～0.1)													843
	o -Phthalonitrile	See Phthalonitrile																						
844	Phthalonitrile	91-15-6	1977	0/6	0/2	－	(1～5)	0/6	0/2	－	(0.1～1)													844
	2-Picoline	See 2-Methylpyridine																						
	alpha -Picoline	See 2-Methylpyridine																						
845	Picric acid	88-89-1	1980	0/9	0/3	－	(1)	0/9	0/3	－	(0.1～0.23)													845
846	Piperazine	110-85-0	1986	0/30	0/10	－	(30)	1/24	1/8	0.07	(0.03)													846
			2008	12/93	4/31	0.012～0.040	(0.004)																	
847	Piperidine	110-89-4	1986	0/30	0/10	－	(10)	0/24	0/8	－	(0.03)													847
848	Piperophos	24151-93-7	1993													0/54	0/18	－	(54)					848
	PMP	See *O*,*O*-Dimethyl *S*-phthalimidylmethyl dithiophosphate																						
	Polybiphenylchloride	See Polychlorobiphenyls																						
849	Polybrominated dioxins																							849
849-1	Polybrominated dibenzo-*p* -dioxins																							849-1
849-1-4	Tetrabromodibenzo-*p* -dioxins	103456-39-9																						849-1-4
849-1-4-1	2,3,7,8-Tetrabromodibenzo-*p* -dioxin	50585-41-6	1998					0/39	0/39	－	(0.000001)	Fish 0/38	Fish 0/38	Fish －	(Fish 0.0000001)									849-1-4-1
			1999					1/39	1/39	0.0000019	(0.0000007)	Fish 0/38	Fish 0/38	Fish －	(Fish 0.00000005)									
			2000					1/36	1/36	0.0000030	(0.0000005)													
849-1-5	Pentabromodibenzo-*p* -dioxins	103456-36-6																						849-1-5
849-1-5-1	1,2,3,7,8-Pentabromodibenzo-*p* -dioxin	109333-34-8	1998					0/39	0/39	－	(0.000005)	Fish 0/38	Fish 0/38	Fish －	(Fish 0.0000005)									849-1-5-1
			1999					0/39	0/39	－	(0.0000018)	Fish 0/38	Fish 0/38	Fish －	(Fish 0.00000005)									
			2000					0/36	0/36	－	(0.000001)													
849-1-6	Hexabromodibenzo-*p* -dioxins	103456-42-4																						849-1-6
	(Other than 1,2,3,7,8,9-isomer)		1998					0/39	0/39	－	(0.00005)	Fish 0/38	Fish 0/38	Fish －	(Fish 0.000005)									
			1999					0/39	0/39	－	(0.0000029)	Fish 0/38	Fish 0/38	Fish －	(Fish 0.00000022)									
			2000					0/36	0/36	－	(0.000005)													
849-1-6-1	1,2,3,7,8,9-Hexabromodibenzo-*p* -dioxin	110999-46-7	1998					0/39	0/39	－	(0.00005)	Fish 0/38	Fish 0/38	Fish －	(Fish 0.000005)									849-1-6-1
			1999					0/39	0/39	－	(0.0000006)	Fish 0/38	Fish 0/38	Fish －	(Fish 0.0000005)									
			2000					0/36	0/36	－	(0.000005)													
849-2	Polybrominated dibenzofuranss																							849-2
849-2-4	Tetrabromodibenzofurans	106340-44-7																						849-2-4
849-2-4-1	2,3,7,8-Tetrabromodibenzofuran	67733-57-7	1998					0/39	0/39	－	(0.000001)	Fish 0/38	Fish 0/38	Fish －	(Fish 0.0000001)									849-2-4-1
			1999					3/39	3/39	0.0000012～0.0000023	(0.0000005)	Fish 0/38	Fish 0/38	Fish －	(Fish 0.00000005)									
			2000					5/36	5/36	0.0000007～0.0000016	(0.0000005)													

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
849-2-5	Pentabromodibenzofurans	68795-14-2																						849-2-5
849-2-5-1	1,2,3,7,8-Pentabromodibenzofuran	107555-93-1	1998					0/39	0/39	—	(0.000005)	Fish 0/38	Fish 0/38	Fish —	(Fish 0.0000005)									849-2-5-1
			1999					0/39	0/39	—	(0.0000005)	Fish 0/38	Fish 0/38	Fish —	(Fish 0.00000008)									
			2000					0/36	0/36	—	(0.000001)													
849-2-5-2	2,3,4,7,8-Pentabromodibenzofuran	131166-92-2	1998					0/39	0/39	—	(0.000005)	Fish 0/38	Fish 0/38	Fish —	(Fish 0.0000005)									849-2-5-2
			1999					0/39	0/39	—	(0.00000030)	Fish 0/38	Fish 0/38	Fish —	(Fish 0.00000007)									
			2000					0/36	0/36	—	(0.000001)													
849-2-6	Hexabromodibenzofurans	103456-33-3																						849-2-6
849-2-6-1	1,2,3,4,7,8-Hexabromodibenzofuran	107555-94-2	1998					0/39	0/39	—	(0.00005)	Fish 0/38	Fish 0/38	Fish —	(Fish 0.000005)									849-2-6-1
			1999					0/39	0/39	—	(0.000006)	Fish 0/38	Fish 0/38	Fish —	(Fish 0.00000030)									
			2000					0/36	0/36	—	(0.000005)													
850	Polybromobiphenyls	Unknown	1981	0/27	0/9	—	(0.1～1)	0/27	0/9	—	(0.005～0.01)													850
850-1	Tetrabromobiphenyls	40088-45-7	1989	0/63	0/21	—	(0.012)	0/63	0/21	—	(0.0016)	Fish 0/63	Fish 0/21	Fish —	(Fish 0.001)	0/38	0/13	—	(1.0)					850-1
850-2	Hexabromobiphenyls	36355-01-8	1989	0/63	0/21	—	(0.05)	0/63	0/21	—	(0.008)	Fish 0/63	Fish 0/21	Fish —	(Fish 0.01)	0/38	0/13	—	(4)					850-2
			2003	0/12	0/4	—	(0.000015)	0/6	0/2	—	(0.0000087)													
			2004													0/3	0/1	—	(0.00025)					
			2009	0/49	0/49	—	(0.0000022*)	45/190	21/64	0.00000040～0.000012	(0.00000040*)	Bivalves 1/31 Fish 46/90 Birds 10/10	Bivalves 1/7 Fish 12/18 Birds 2/2	Bivalves 0.00000053 Fish 0.00000043～0.0000060 Birds 0.0000012～0.0000021	(Bivalves 0.00000043) (Fish 0.00000043) (Birds 0.00000043)									
			2010	0/49	0/49	—	(0.000001)	10/64	10/64	0.0000008～0.000018	(0.0000006)	Bivalves 0/6 Fish 0/18 Birds 0/2	Bivalves 0/6 Fish 0/18 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.000010*) (Fish 0.000010*) (Birds 0.000010*)	W.S. 0/37 C.S. 0/37	W.S. 0/37 C.S. 0/37	W.S. — C.S. —	(W.S. 0.0001) (C.S. 0.0001)					
			2011	0/49	0/49	—	(0.0000009*)	8/64	8/64	0.0000014～0.0000063	(0.0000014*)	Bivalves 0/4 Fish 5/18 Birds 1/1	Bivalves 0/4 Fish 5/18 Birds 1/1	Bivalves — Fish 0.000001～0.000003 Birds 0.000003	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 0/35 C.S. 0/37	W.S. 0/35 C.S. 0/37	W.S. — C.S. —	(W.S. 0.0001) (C.S. 0.0001)					
			2015					9/62	9/62	0.0000006～0.000015	(0.0000003)	Bivalves 0/3 Fish 0/19 Birds 0/1	Bivalves 0/3 Fish 0/19 Birds 0/1	Bivalves — Fish — Birds —	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	2/35	2/35	0.00018～0.0011	(0.00002)					
850-2-1	2,2',4,4',5,5'-Hexabromobiphenyl (PBB#153)	59080-40-9	2009	0/49	0/49	—	(0.00000064)	70/190	32/64	0.00000012～0.0000081	(0.00000012)	Bivalves 15/31 Fish 57/90 Birds 10/10	Bivalves 5/7 Fish 14/18 Birds 2/2	Bivalves 0.00000013～0.00000023 Fish 0.00000013～0.0000049 Birds 0.00000074～0.0000021	(Bivalves 0.00000013) (Fish 0.00000013) (Birds 0.00000013)									850-2-1
			2010									Bivalves 0/6 Fish 0/18 Birds 0/2	Bivalves 0/6 Fish 0/18 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)									
			2011	0/49	0/49	—	(0.0000001)	13/64	13/64	0.0000004～0.0000059	(0.0000004)													
850-2-2	2,2',4,4',5,6'-Hexabromobiphenyl (PBB#154)		2010									Bivalves 0/6 Fish 0/18 Birds 0/2	Bivalves 0/6 Fish 0/18 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)									850-2-2
			2011	0/49	0/49	—	(0.0000002)	0/64	0/64	—	(0.0000002)													
850-2-3	2,2',4,4',6,6'-Hexabromobiphenyl (PBB#155)	59261-08-4	2009	0/49	0/49	—	(0.00000019)	35/190	16/64	0.000000050～0.0000032	(0.000000042)	Bivalves 15/31 Fish 52/90 Birds 8/10	Bivalves 4/7 Fish 13/18 Birds 2/2	Bivalves 0.00000009～0.00000030 Fish 0.00000009～0.0000010 Birds 0.00000009～0.00000063	(Bivalves 0.00000009) (Fish 0.00000009) (Birds 0.00000009)									850-2-3
			2010									Bivalves 0/6 Fish 0/18 Birds 0/2	Bivalves 0/6 Fish 0/18 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)									
			2011	0/49	0/49	—	(0.0000002)	7/64	7/64	0.0000001～0.0000053	(0.0000001)													
850-2-4	2,3,3',4,4',5-Hexabromobiphenyl (PBB#156)		2010									Bivalves 0/6 Fish 0/18 Birds 0/2	Bivalves 0/6 Fish 0/18 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)									850-2-4
			2011	0/49	0/49	—	(0.0000002)	0/64	0/64	—	(0.0000004)													
850-2-5	3,3',4,4',5,5'-Hexabromobiphenyl (PBB#169)	60044-26-0	2009	0/49	0/49	—	(0.00000078)	0/190	0/64	—	(0.00000014)	Bivalves 0/31 Fish 0/90 Birds 0/10	Bivalves 0/7 Fish 0/18 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.00000009) (Fish 0.00000009) (Birds 0.00000009)									850-2-5
			2010									Bivalves 0/6 Fish 0/18 Birds 0/2	Bivalves 0/6 Fish 0/18 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)									
			2011	0/49	0/49	—	(0.0000002)	0/64	0/64	—	(0.0000003)													
850-3	Decabromobiphenyl	13654-09-6	1989	0/63	0/21	—	(0.3)	0/63	0/21	—	(0.03)	Fish 0/63	Fish 0/21	Fish —	(Fish 0.03)	0/38	0/13	—	(20)					850-3

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
851	Polybromodiphenyl ethers																							851
	(Br_1 - Br_7)		(2001)													36/36	12/12	0.00007～0.067						
			(2004)													9/9	3/3	0.0015～0.02	(0.00006)					
	(Br_4 - Br_{10})		(2008)									Bivalves 17/31 Fish 60/85 Birds 10/10	Bivalves 5/7 Fish 14/17 Birds 2/2	Bivalves 0.00013～0.00054 Fish 0.00011～0.0020 Birds 0.00031～0.0021	(Bivalves 0.00011*) (Fish 0.00011*) (Birds 0.00011*)									
			(2009)	28/49	28/49	0.00025～0.0041	(0.00024*)	185/192	64/64	0.00009～1.1	(0.000072*)					W.S. 26/37 C.S. 30/37	W.S. 26/37 C.S. 30/37	W.S. 0.0065～0.043 C.S. 0.0061～0.087	(W.S. 0.0060*) (C.S. 0.0060*)					
			(2010)	31/49	31/49	0.00013～0.014	(0.00011*)	60/64	60/64	0.00011～0.73	(0.00010*)	Bivalves 3/6 Fish 12/18 Birds 2/2	Bivalves 3/6 Fish 12/18 Birds 2/2	Bivalves 0.00019～0.00061 Fish 0.00017～0.0012 Birds 0.00046～0.00066	(Bivalves 0.00015*) (Fish 0.00015*) (Birds 0.00015*)	W.S. 16/37 C.S. 22/37	W.S. 16/37 C.S. 22/37	W.S. 0.011～0.33 C.S. 0.011～0.12	(W.S. 0.011*) (C.S. 0.011*)					
			(2011)	47/49	47/49	0.000019～0.059	(0.000031*)	63/64	63/64	0.00006～0.77	(0.000047*)	Bivalves 3/4 Fish 15/18 Birds 1/1	Bivalves 3/4 Fish 15/18 Birds 1/1	Bivalves 0.00023～0.0011 Fish 0.00011～0.0018 Birds 0.00062	(Bivalves 0.00011*) (Fish 0.00011*) (Birds 0.00011*)	W.S. 31/35 C.S. 29/37	W.S. 31/35 C.S. 29/37	W.S. 0.0050～0.037 C.S. 0.0049～0.058	(W.S. 0.0042*) (C.S. 0.0042*)					
			(2012)	32/48	32/48	0.00024～0.012	(0.00024*)	60/63	60/63	0.00011～0.87	(0.00011*)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.00010～0.00085 Fish 0.00011～0.0014 Birds 0.00063～0.0016	(Bivalves 0.000083*) (Fish 0.000083*) (Birds 0.000083*)	W.S. 22/36 C.S. 29/36	W.S. 22/36 C.S. 29/36	W.S. 0.006～0.044 C.S. 0.006～0.079	(W.S. 0.006) (C.S. 0.006)					
			(2014)	47/48	47/48	0.000023～0.0062	(0.00021*)	61/63	61/63	0.00013～1.0	(0.00012*)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.00021～0.00083 Fish 0.00013～0.0039 Birds 0.00020～0.0019	(Bivalves 0.00009*) (Fish 0.00009*) (Birds 0.00009*)	22/36	22/36	0.005～0.071	(0.005*)					
			(2015)	48/48	48/48	0.00016～0.013	(0.000014*)	62/62	62/62	0.00005～0.50	(0.00004*)	Bivalves 3/3 Fish 15/19 Birds 1/1	Bivalves 3/3 Fish 15/19 Birds 1/1	Bivalves 0.00012～0.00020 Fish 0.00014～0.0013 Birds 0.00021	(Bivalves 0.00011*) (Fish 0.00011*) (Birds 0.00011*)	27/35	27/35	0.0035～0.080	(0.0033*)					
			(2016)	48/48	48/48	0.000017～0.038	(0.000014*)	60/62	60/62	0.000075～0.97	(0.000072*)	Bivalves 1/3 Fish 16/19 Birds 2/2	Bivalves 1/3 Fish 16/19 Birds 2/2	Bivalves 0.00026 Fish 0.00015～0.00081 Birds 0.00029～0.0020	(Bivalves 0.00014*) (Fish 0.00014*) (Birds 0.00014*)	32/37	32/37	0.0032～0.098	(0.0027*)					
			(2017)	41/47	41/47	0.000024～0.0046	(0.000024*)	61/62	61/62	0.000067～0.61	(0.000033*)	Bivalves 2/3 Fish 11/19 Birds 1/2	Bivalves 2/3 Fish 11/19 Birds 1/2	Bivalves 0.00026～0.0003 Fish 0.00014～0.0026 Birds 0.0033	(Bivalves 0.000134*) (Fish 0.000134*) (Birds 0.000134*)	33/37	33/37	0.0018～0.19	(0.0015*)					
			(2018)	45/47	45/47	0.000022～0.0032	(0.000019*)	58/61	58/61	0.000031～0.58	(0.000030*)	Bivalves 0/3 Fish 10/18 Birds 2/2	Bivalves 0/3 Fish 10/18 Birds 2/2	Bivalves － Fish 0.00013～0.00080 Birds 0.0015～0.0030	(Bivalves 0.00013*) (Fish 0.00013*) (Birds 0.00013*)	31/37	31/37	0.0015～0.024	(0.0013*)					
			(2019)	44/48	44/48	0.000021～0.0024	(0.000019*)	61/61	61/61	0.000017～0.60	(0.000013*)	Bivalves 1/3 Fish 10/16 Birds 1/1	Bivalves 1/3 Fish 10/16 Birds 1/1	Bivalves 0.00041 Fish 0.00013～0.00067 Birds 0.0014	(Bivalves 0.00012*) (Fish 0.00012*) (Birds 0.00012*)	33/36	33/36	0.0006～0.018	(0.0005*)					
			(2022)	45/48	45/48	0.000016～0.0063	(0.000015*)	59/61	59/61	0.000040～0.46	(0.000022*)	Bivalves 1/3 Fish 15/18 Birds 2/2	Bivalves 1/3 Fish 15/18 Birds 2/2	Bivalves 0.00014 Fish 0.000035～0.00043 Birds 0.00082～0.0013	(Bivalves 0.000023*) (Fish 0.000023*) (Birds 0.000023*)	28/36	28/36	0.0016～0.017	(0.0014*)					
851-1	Monobromodiphenyl ethers		2001													7/36	3/12	0.0004～0.002	(0.0004)					851-1
			2004													9/9	3/3	0.000095～0.00027	(0.00006)					
			2005	0/6	0/2	－	(0.00025*)																	
851-2	Dibromodiphenyl ethers		2001													29/36	12/12	0.0002～0.012	(0.0002)					851-2
			2004													9/9	3/3	0.00023～0.0033	(0.00010)					
			2005	0/6	0/2	－	(0.000082*)																	
851-2-1	4,4'-Dibromodiphenyl ether (PBDE#15)	2050-47-7	1984	0/27	0/9	－	(0.01～0.03)	0/27	0/9	－	(0.00005～0.013)													851-2-1
851-3	Tribromodiphenyl ethers		2001													36/36	12/12	0.00007～0.0079	(0.00005)					851-3
			2004													9/9	3/3	0.00022～0.0043	(0.00007)					
			2005	0/6	0/2	－	(0.000086*)																	
851-4	Tetrabromodiphenyl ethers	40088-47-9	2001													27/36	10/12	0.0005～0.01	(0.0005)					851-4
			2004													9/9	3/3	0.00035～0.0064	(0.00008)					
			2005	0/3	0/1	－	(0.00014*)																	
			2008									Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000020～0.00038 Fish 0.0000098～0.0013 Birds 0.000032～0.0012	(Bivalves 0.0000022) (Fish 0.0000022) (Birds 0.0000022)									
			2009	44/49	44/49	0.000004～0.00016	(0.000003)	131/192	51/64	0.000023～0.0014	(0.000023)					W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00011～0.018 C.S. 0.00004～0.0071	(W.S. 0.00004) (C.S. 0.00004)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2010	17/49	17/49	0.0000010～0.00039	(0.000003)	57/64	57/64	0.000003～0.00091	(0.000002)	Bivalves 5/6 Fish 18/18 Birds 2/2	Bivalves 5/6 Fish 18/18 Birds 2/2	Bivalves 0.000036～0.00031 Fish 0.000016～0.00074 Birds 0.000072～0.00027	(Bivalves 0.000016) (Fish 0.000016) (Birds 0.000016)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00015～0.050 C.S. 0.00009～0.025	(W.S. 0.00005) (C.S. 0.00005)					
			2011	48/49	48/49	0.0000007～0.00018	(0.000002)	47/64	47/64	0.000004～0.0026	(0.00001)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000026～0.00049 Fish 0.000009～0.00086 Birds 0.000067	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	W.S. 35/35 C.S. 35/37	W.S. 35/35 C.S. 35/37	W.S. 0.00011～0.0093 C.S. 0.00012～0.0070	(W.S. 0.00007) (C.S. 0.00007)					
			2012	47/48	47/48	0.000001～0.000022	(0.000001)	60/63	60/63	0.000001～0.0045	(0.000001)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000024～0.00019 Fish 0.000010～0.00065 Birds 0.000049～0.00011	(Bivalves 0.000007) (Fish 0.000007) (Birds 0.000007)	W.S. 35/36 C.S. 25/36	W.S. 35/36 C.S. 25/36	W.S. 0.0001～0.0057 C.S. 0.0002～0.0017	(W.S. 0.0001) (C.S. 0.0001)					
			2014	48/48	48/48	0.000004～0.000051	(0.000003)	44/63	44/63	0.000009～0.00055	(0.000009)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000033～0.00014 Fish 0.000018～0.0013 Birds 0.000078～0.00048	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	36/36	36/36	0.00009～0.0023	(0.00009)					
			2015	48/48	48/48	0.0000012～0.000040	(0.0000012)	44/62	44/62	0.000008～0.0014	(0.000007)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.000032～0.000089 Fish 0.000014～0.00058 Birds 0.000036	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	30/35	30/35	0.0001～0.0027	(0.0001)					
			2016	48/48	48/48	0.000003～0.000047	(0.000002)	35/62	35/62	0.000014～0.00039	(0.000011)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000023～0.000098 Fish 0.000010～0.00039 Birds 0.000062～0.00047	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	30/37	30/37	0.0002～0.028	(0.0002)					
			2017	44/47	44/47	0.000003～0.000012	(0.000003)	44/62	44/62	0.000004～0.00057	(0.000004)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000023～0.00020 Fish 0.000007～0.00036 Birds 0.000026～0.00066	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	37/37	37/37	0.00006～0.0041	(0.00005)					
			2018	22/47	22/47	0.000005～0.000072	(0.000005)	43/61	43/61	0.000006～0.0031	(0.000006)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000026～0.000068 Fish 0.000013～0.00044 Birds 0.00028～0.00031	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	37/37	37/37	0.00005～0.0039	(0.00002)					
			2019	39/48	39/48	0.000004～0.00032	(0.000004)	58/61	58/61	0.000002～0.00071	(0.000002)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000015～0.000068 Fish 0.000010～0.00021 Birds 0.00021	(Bivalves 0.000007) (Fish 0.000007) (Birds 0.000007)	36/36	36/36	0.00003～0.0055	(0.00001)					
			2022	48/48	48/48	0.000002～0.00014	(0.000002)	52/61	52/61	0.0000010～0.0018	(0.0000009)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000006～0.000094 Fish 0.000006～0.00023 Birds 0.00018～0.00025	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	20/36	20/36	0.0002～0.0011	(0.0002)					
851-4-1	2,2',4,4'-Tetrabromodiphenyl ether (PBDE#47)	5436-43-1	2009	44/49	44/49	0.000004～0.00015	(0.000003)	118/192	47/64	0.000023～0.00076	(0.000023)					W.S. 37/37 C.S. 36/37	W.S. 37/37 C.S. 36/37	W.S. 0.00007～0.017 C.S. 0.00005～0.0052	(W.S. 0.00003) (C.S. 0.00003)					851-4-1
			2010	11/49	11/49	0.0000007～0.00023	(0.000003)	55/64	55/64	0.000002～0.00040	(0.000002)	Bivalves 5/6 Fish 18/18 Birds 2/2	Bivalves 5/6 Fish 18/18 Birds 2/2	Bivalves 0.000036～0.00031 Fish 0.000016～0.00074 Birds 0.000072～0.00027	(Bivalves 0.000016) (Fish 0.000016) (Birds 0.000016)	W.S. 37/37 C.S. 36/37	W.S. 37/37 C.S. 36/37	W.S. 0.00009～0.046 C.S. 0.00006～0.015	(W.S. 0.00005) (C.S. 0.00005)					
			2011	48/49	48/49	0.0000005～0.00017	(0.000002)	38/64	38/64	0.000012～0.0015	(0.00001)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000023～0.00030 Fish 0.000008～0.00059 Birds 0.000067	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	W.S. 34/35 C.S. 35/37	W.S. 34/35 C.S. 35/37	W.S. 0.00013～0.0088 C.S. 0.00008～0.0056	(W.S. 0.00007) (C.S. 0.00007)					
			2012	39/48	39/48	0.000001～0.000021	(0.000001)	60/63	60/63	0.000001～0.0024	(0.000001)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000015～0.00013 Fish 0.000008～0.00040 Birds 0.000050～0.000084	(Bivalves 0.000007) (Fish 0.000007) (Birds 0.000007)	W.S. 34/36 C.S. 23/36	W.S. 34/36 C.S. 23/36	W.S. 0.0001～0.0049 C.S. 0.0001～0.0014	(W.S. 0.0001) (C.S. 0.0001)					
			2014	48/48	48/48	0.000004～0.000051	(0.000003)	40/63	40/63	0.000009～0.00031	(0.000009)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000019～0.000076 Fish 0.000010～0.00063 Birds 0.000040～0.00036	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	35/36	35/36	0.00006～0.0020	(0.00006)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2015	48/48	48/48	0.0000012～0.000031	(0.0000012)	36/62	36/62	0.000007～0.00080	(0.000007)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.000022～0.000053 Fish 0.000008～0.00037 Birds 0.000031	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	15/35	15/35	0.00007～0.0024	(0.00006)					
			2016	48/48	48/48	0.000003～0.000043	(0.000002)	36/62	36/62	0.00001～0.00025	(0.00001)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000018～0.000059 Fish 0.000007～0.00024 Birds 0.000056～0.00036	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	35/37	35/37	0.00007～0.025	(0.00006)					
			2017	47/47	47/47	0.000003～0.000011	(0.000002)	44/62	44/62	0.000004～0.00033	(0.000004)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.000014～0.00011 Fish 0.000012～0.00022 Birds 0.000023～0.00050	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	37/37	37/37	0.00006～0.0038	(0.00002)					
			2018	21/47	21/47	0.000005～0.000021	(0.000005)	38/61	38/61	0.000006～0.0018	(0.000006)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000013～0.000039 Fish 0.000010～0.00032 Birds 0.00020～0.00026	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	37/37	37/37	0.00004～0.0035	(0.00001)					
			2019	39/48	39/48	0.000004～0.00031	(0.000004)	50/61	50/61	0.000002～0.00042	(0.000002)	Bivalves 3/3 Fish 15/16 Birds 1/1	Bivalves 3/3 Fish 15/16 Birds 1/1	Bivalves 0.000009～0.000044 Fish 0.000007～0.00015 Birds 0.00013	(Bivalves 0.000007) (Fish 0.000007) (Birds 0.000007)	36/36	36/36	0.00002～0.0050	(0.00001)					
			2022	48/48	48/48	0.000002～0.00013	(0.000002)	52/61	52/61	0.0000010～0.0014	(0.0000009)	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 0.000064 Fish 0.000010～0.00017 Birds 0.00013～0.00021	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)	35/36	35/36	0.00002～0.00086	(0.00002)					
851-5	Pentabromodiphenyl ethers	32534-81-9	2001													32/36	12/12	0.0001～0.0093	(0.00009)					851-5
			2004					1/12	1/4	0.000050	(0.000035)					9/9	3/3	0.00035～0.0054	(0.00006)					
			2005	0/3	0/1	—	(0.00032*)																	
			2008									Bivalves 31/31 Fish 72/85 Birds 10/10	Bivalves 7/7 Fish 16/17 Birds 2/2	Bivalves 0.000011～0.000094 Fish 0.0000059～0.00028 Birds 0.000052～0.00044	(Bivalves 0.0000059) (Fish 0.0000059) (Birds 0.0000059)									
			2009	43/49	43/49	0.000004～0.000087	(0.000004)	146/192	57/64	0.000008～0.0017	(0.000008)					W.S. 33/37 C.S. 29/37	W.S. 33/37 C.S. 29/37	W.S. 0.00006～0.018 C.S. 0.00007～0.010	(W.S. 0.00006) (C.S. 0.00006)					
			2010	25/49	25/49	0.0000006～0.00013	(0.000001)	58/64	58/64	0.000002～0.00074	(0.000002)	Bivalves 6/6 Fish 16/18 Birds 2/2	Bivalves 6/6 Fish 16/18 Birds 2/2	Bivalves 0.000009～0.000098 Fish 0.000021～0.00020 Birds 0.00012～0.00020	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	W.S. 35/37 C.S. 34/37	W.S. 35/37 C.S. 34/37	W.S. 0.00007～0.045 C.S. 0.00005～0.028	(W.S. 0.00005) (C.S. 0.00005)					
			2011	48/49	48/49	0.0000007～0.00018	(0.000001)	62/64	62/64	0.000004～0.0047	(0.000002)	Bivalves 4/4 Fish 17/18 Birds 1/1	Bivalves 4/4 Fish 17/18 Birds 1/1	Bivalves 0.000012～0.00016 Fish 0.000008～0.00030 Birds 0.00011	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	W.S. 31/35 C.S. 31/37	W.S. 31/35 C.S. 31/37	W.S. 0.00008～0.0088 C.S. 0.00006～0.0026	(W.S. 0.00006) (C.S. 0.00006)					
			2012	32/48	32/48	0.000001～0.00002	(0.000001)	62/63	62/63	0.0000010～0.0029	(0.0000009)	Bivalves 5/5 Fish 17/19 Birds 2/2	Bivalves 5/5 Fish 17/19 Birds 2/2	Bivalves 0.000008～0.000067 Fish 0.000009～0.00018 Birds 0.000066～0.00011	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	W.S. 30/36 C.S. 26/36	W.S. 30/36 C.S. 26/36	W.S. 0.00006～0.0024 C.S. 0.00007～0.00077	(W.S. 0.00006) (C.S. 0.00006)					
			2014	19/48	19/48	0.000002～0.000039	(0.000002)	53/63	53/63	0.000002～0.00057	(0.000002)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.000018～0.000041 Fish 0.000008～0.00057 Birds 0.000031～0.00032	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	25/36	25/36	0.00009～0.0008	(0.00009)					
			2015	34/48	34/48	0.0000021～0.000031	(0.0000021)	44/62	44/62	0.000006～0.0013	(0.000006)	Bivalves 3/3 Fish 18/19 Birds 1/1	Bivalves 3/3 Fish 18/19 Birds 1/1	Bivalves 0.000016～0.000020 Fish 0.000007～0.00014 Birds 0.000022	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	6/35	6/35	0.0002～0.0009	(0.0002)					
			2016	39/48	39/48	0.0000009～0.000036	(0.0000009)	46/62	46/62	0.000004～0.00040	(0.000004)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000008～0.00002 Fish 0.000004～0.000087 Birds 0.000026～0.00030	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	6/37	6/37	0.0003～0.028	(0.0002)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2017	24/47	24/47	0.000001～0.000008	(0.000001)	37/62	37/62	0.000004～0.00056	(0.000004)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.000006～0.000062 Fish 0.000005～0.000087 Birds 0.000012～0.00050	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	33/37	33/37	0.00004～0.0034	(0.00004)					
			2018	13/47	13/47	0.000003～0.00011	(0.000003)	53/61	53/61	0.000002～0.0028	(0.000002)	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 0.000005～0.000023 Fish 0.000005～0.00010 Birds 0.00014～0.00024	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	18/37	18/37	0.00008～0.0041	(0.00008)					
			2019	19/48	19/48	0.000002～0.000069	(0.000002)	52/61	52/61	0.000001～0.00074	(0.000001)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000005～0.000028 Fish 0.000004～0.000058 Birds 0.00015	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	27/36	27/36	0.00005～0.0061	(0.00005)					
			2022	40/48	40/48	0.0000010～0.000031	(0.0000009)	45/61	45/61	0.000001～0.00085	(0.000001)	Bivalves 2/3 Fish 17/18 Birds 2/2	Bivalves 2/3 Fish 17/18 Birds 2/2	Bivalves 0.000002～0.000026 Fish 0.000002～0.000082 Birds 0.00020～0.00026	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	13/36	13/36	0.00005～0.00031	(0.00005)					
851-5-1	2,2',4,4',5-Pentabromodiphenyl ether (PBDE#99)	60348-60-9	2009	44/49	44/49	0.000003～0.000072	(0.000003)	130/192	54/64	0.000008～0.0010	(0.000008)					W.S. 34/37 C.S. 32/37	W.S. 34/37 C.S. 32/37	W.S. 0.00004～0.014 C.S. 0.00005～0.0051	(W.S. 0.00004) (C.S. 0.00004)					851-5-1
			2010	22/49	22/49	0.0000005～0.000091	(0.000001)	56/64	56/64	0.000002～0.00044	(0.000002)	Bivalves 6/6 Fish 15/18 Birds 2/2	Bivalves 6/6 Fish 15/18 Birds 2/2	Bivalves 0.000009～0.000066 Fish 0.000009～0.000035 Birds 0.000076～0.000090	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	W.S. 33/37 C.S. 32/37	W.S. 33/37 C.S. 32/37	W.S. 0.00005～0.036 C.S. 0.00005～0.021	(W.S. 0.00005) (C.S. 0.00005)					
			2011	47/49	47/49	0.0000007～0.00012	(0.000001)	54/64	54/64	0.000002～0.0038	(0.000002)	Bivalves 3/4 Fish 9/18 Birds 1/1	Bivalves 3/4 Fish 9/18 Birds 1/1	Bivalves 0.000015～0.000095 Fish 0.000006～0.000034 Birds 0.000082	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	W.S. 31/35 C.S. 27/37	W.S. 31/35 C.S. 27/37	W.S. 0.00006～0.0069 C.S. 0.00006～0.0018	(W.S. 0.00006) (C.S. 0.00006)					
			2012	24/48	24/48	0.000001～0.000015	(0.000001)	56/63	56/63	0.0000010～0.0019	(0.0000009)	Bivalves 4/5 Fish 11/19 Birds 2/2	Bivalves 4/5 Fish 11/19 Birds 2/2	Bivalves 0.000007～0.000044 Fish 0.000006～0.000028 Birds 0.0000016～0.000061	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	W.S. 29/36 C.S. 21/36	W.S. 29/36 C.S. 21/36	W.S. 0.00006～0.00062 C.S. 0.00007～0.00062	(W.S. 0.00006) (C.S. 0.00006)					
			2014	19/48	19/48	0.000002～0.000029	(0.000002)	47/63	47/63	0.000002～0.00034	(0.000002)	Bivalves 3/3 Fish 9/19 Birds 1/2	Bivalves 3/3 Fish 9/19 Birds 1/2	Bivalves 0.000009～0.000021 Fish 0.000006～0.000031 Birds 0.000034	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	23/36	23/36	0.00007～0.00058	(0.00007)					
			2015	33/48	33/48	0.0000021～0.000022	(0.0000021)	41/62	41/62	0.000004～0.00087	(0.000004)	Bivalves 3/3 Fish 7/19 Birds 1/1	Bivalves 3/3 Fish 7/19 Birds 1/1	Bivalves 0.000009～0.000015 Fish 0.000007～0.000033 Birds 0.000008	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	18/35	18/35	0.00006～0.00057	(0.00006)					
			2016	39/48	39/48	0.0000009～0.000028	(0.0000009)	48/62	48/62	0.000003～0.00024	(0.000003)	Bivalves 3/3 Fish 11/19 Birds 2/2	Bivalves 3/3 Fish 11/19 Birds 2/2	Bivalves 0.000005～0.000014 Fish 0.000003～0.000022 Birds 0.000003～0.000030	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	22/37	22/37	0.00006～0.021	(0.00006)					
			2017	40/47	40/47	0.000001～0.000006	(0.000001)	43/62	43/62	0.000002～0.00038	(0.000002)	Bivalves 2/3 Fish 5/19 Birds 1/2	Bivalves 2/3 Fish 5/19 Birds 1/2	Bivalves 0.000005～0.000038 Fish 0.000005～0.000015 Birds 0.000012	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	37/37	37/37	0.00001～0.0026	(0.00001)					
			2018	23/47	23/47	0.000002～0.000011	(0.000002)	45/61	45/61	0.000002～0.0017	(0.000002)	Bivalves 2/3 Fish 9/18 Birds 2/2	Bivalves 2/3 Fish 9/18 Birds 2/2	Bivalves 0.000008～0.000015 Fish 0.000004～0.000026 Birds 0.000021～0.000022	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	33/37	33/37	0.00002～0.0031	(0.00002)					
			2019	23/48	23/48	0.000002～0.000042	(0.000002)	52/61	52/61	0.000001～0.00044	(0.000001)	Bivalves 2/3 Fish 4/16 Birds 1/1	Bivalves 2/3 Fish 4/16 Birds 1/1	Bivalves 0.000005～0.000019 Fish 0.000005～0.000013 Birds 0.000007	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	30/36	30/36	0.00002～0.0047	(0.00002)					
			2022	40/48	40/48	0.0000010～0.000021	(0.0000009)	44/61	44/61	0.000001～0.00049	(0.000001)	Bivalves 2/3 Fish 11/18 Birds 2/2	Bivalves 2/3 Fish 11/18 Birds 2/2	Bivalves 0.000002～0.000017 Fish 0.000002～0.000008 Birds 0.0000010～0.000022	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	14/36	14/36	0.00004～0.00014	(0.00004)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
851-6	Hexabromodiphenyl ethers	36483-60-0	1987	0/75	0/25	—	(0.04)	4/69	2/23	0.007～0.077	(0.0051)	Fish 5/75	Fish 3/24	Fish 0.0038～0.014	(Fish 0.002)									851-6
			1988	0/150	0/50	—	(0.04)	4/141	2/47	0.0045～0.018	(0.0035)	Fish 5/144	Fish 3/48	Fish 0.002～0.006	(Fish 0.002)									
			2001													27/36	12/12	0.00011～0.011	(0.00010)					
			2003					0/9	0/3	—	(0.0005)	Fish 0/9	Fish 0/3	Fish —	(Fish 0.0005)									
			2004													6/9	2/3	0.0004～0.0012	(0.00018)					
			2005	0/3	0/1	—	(0.00027*)																	
			2008									Bivalves 31/31 Fish 83/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.0000053～0.000082 Fish 0.0000053～0.00031 Birds 0.000062～0.00038	(Bivalves 0.0000050) (Fish 0.0000050) (Birds 0.0000050)									
			2009	26/49	26/49	0.0000007～0.000018	(0.0000006)	139/192	53/64	0.000002～0.0026	(0.000002)					W.S. 19/37 C.S. 24/37	W.S. 19/37 C.S. 24/37	W.S. 0.00011～0.0020 C.S. 0.00010～0.027	(W.S. 0.00009) (C.S. 0.00009)					
			2010	16/49	16/49	0.0000003～0.000051	(0.000002)	57/64	57/64	0.000002～0.00077	(0.000002)	Bivalves 4/6 Fish 16/18 Birds 2/2	Bivalves 4/6 Fish 16/18 Birds 2/2	Bivalves 0.000012～0.000026 Fish 0.000004～0.00040 Birds 0.000086～0.00014	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 29/37 C.S. 31/37	W.S. 29/37 C.S. 31/37	W.S. 0.00006～0.0049 C.S. 0.00007～0.0054	(W.S. 0.00006) (C.S. 0.00006)					
			2011	21/49	21/49	0.000001～0.000039	(0.000001)	52/64	52/64	0.000003～0.0020	(0.000003)	Bivalves 4/4 Fish 17/18 Birds 1/1	Bivalves 4/4 Fish 17/18 Birds 1/1	Bivalves 0.000020～0.000081 Fish 0.000012～0.00043 Birds 0.000096	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 28/35 C.S. 30/37	W.S. 28/35 C.S. 30/37	W.S. 0.00005～0.0012 C.S. 0.00006～0.0017	(W.S. 0.00005) (C.S. 0.00005)					
			2012	6/48	6/48	0.000001～0.000007	(0.000001)	48/63	48/63	0.000001～0.0017	(0.000001)	Bivalves 5/5 Fish 18/19 Birds 2/2	Bivalves 5/5 Fish 18/19 Birds 2/2	Bivalves 0.000006～0.00013 Fish 0.000011～0.00032 Birds 0.000072～0.00032	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 9/36 C.S. 22/36	W.S. 9/36 C.S. 22/36	W.S. 0.0001～0.0031 C.S. 0.0001～0.0005	(W.S. 0.0001) (C.S. 0.0001)					
			2014	10/48	10/48	0.000001～0.000008	(0.000001)	50/63	50/63	0.000003～0.00073	(0.000002)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.000011～0.000052 Fish 0.000014～0.0011 Birds 0.000042～0.00068	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	5/36	5/36	0.0001～0.0004	(0.0001)					
			2015	5/48	5/48	0.0000020～0.000012	(0.0000006)	42/62	42/62	0.000004～0.00082	(0.000001)	Bivalves 2/3 Fish 18/19 Birds 1/1	Bivalves 2/3 Fish 18/19 Birds 1/1	Bivalves 0.000006～0.000041 Fish 0.000018～0.00025 Birds 0.000030	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	3/35	3/35	0.0004～0.0020	(0.0004)					
			2016	9/48	9/48	0.0000008～0.0000091	(0.0000008)	40/62	40/62	0.000003～0.00060	(0.000003)	Bivalves 2/3 Fish 18/19 Birds 2/2	Bivalves 2/3 Fish 18/19 Birds 2/2	Bivalves 0.000013～0.00004 Fish 0.000016～0.00019 Birds 0.000068～0.00074	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)	3/37	3/37	0.0002～0.0027	(0.0002)					
			2017	1/47	1/47	0.000006	(0.000003)	44/62	44/62	0.000002～0.00057	(0.000002)	Bivalves 2/3 Fish 18/19 Birds 2/2	Bivalves 2/3 Fish 18/19 Birds 2/2	Bivalves 0.000020～0.000036 Fish 0.000008～0.00021 Birds 0.000051～0.0010	(Bivalves 0.000007) (Fish 0.000007) (Birds 0.000007)	11/37	11/37	0.0001～0.0021	(0.0001)					
			2018	15/47	15/47	0.000001～0.000054	(0.000001)	52/61	52/61	0.000001～0.0013	(0.000001)	Bivalves 2/3 Fish 17/18 Birds 2/2	Bivalves 2/3 Fish 17/18 Birds 2/2	Bivalves 0.000012～0.000034 Fish 0.000016～0.00019 Birds 0.00033～0.0013	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)	9/37	9/37	0.00006～0.0015	(0.00006)					
			2019	5/48	5/48	0.000001～0.000008	(0.000001)	41/61	41/61	0.000002～0.00069	(0.000002)	Bivalves 1/3 Fish 16/16 Birds 1/1	Bivalves 1/3 Fish 16/16 Birds 1/1	Bivalves 0.000024 Fish 0.000012～0.00029 Birds 0.00048	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)	15/36	15/36	0.00005～0.00079	(0.00005)					
			2022	5/48	5/48	0.000001～0.000010	(0.000001)	46/61	46/61	0.000001～0.00042	(0.000001)	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 0.000005 Fish 0.000002～0.000096 Birds 0.00024～0.00048	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	1/36	1/36	0.0006	(0.0002)					
851-6-1	2,2',4,4',5,5'-Hexabromodiphenyl ether (PBDE#153)	68631-49-2	2009	18/49	18/49	0.0000007～0.000011	(0.0000006)	107/192	41/64	0.000004～0.0021	(0.000004)					W.S. 12/37 C.S. 15/37	W.S. 12/37 C.S. 15/37	W.S. 0.00006～0.00089 C.S. 0.00007～0.0020	(W.S. 0.00006) (C.S. 0.00006)					851-6-1
			2010	6/49	6/49	0.0000001～0.000039	(0.000002)	48/64	48/64	0.000002～0.00043	(0.000002)	Bivalves 1/6 Fish 13/18 Birds 2/2	Bivalves 1/6 Fish 13/18 Birds 2/2	Bivalves 0.000004～0.000004 Fish 0.000003～0.000041 Birds 0.000040～0.000045	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 16/37 C.S. 26/37	W.S. 16/37 C.S. 26/37	W.S. 0.00005～0.0021 C.S. 0.00004～0.0024	(W.S. 0.00004) (C.S. 0.00004)					
			2011	6/49	6/49	0.000001～0.000015	(0.000001)	54/64	54/64	0.000001～0.00095	(0.000001)	Bivalves 2/4 Fish 10/18 Birds 1/1	Bivalves 2/4 Fish 10/18 Birds 1/1	Bivalves 0.000008～0.000015 Fish 0.000005～0.000046 Birds 0.000035	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 11/35 C.S. 21/37	W.S. 11/35 C.S. 21/37	W.S. 0.00005～0.00051 C.S. 0.00005～0.00050	(W.S. 0.00005) (C.S. 0.00005)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2012	3/48	3/48	0.000002～0.000005	(0.000002)	46/63	46/63	0.000001～ 0.00063	(0.000001)	Bivalves 2/5 Fish 15/19 Birds 2/2	Bivalves 2/5 Fish 15/19 Birds 2/2	Bivalves 0.000006～ 0.000014 Fish 0.000003～0.00013 Birds 0.000021～ 0.00013	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 4/36 C.S. 3/36	W.S. 4/36 C.S. 3/36	W.S. 0.0001～ 0.0003 C.S. 0.0001～ 0.0002	(W.S. 0.0001) (C.S. 0.0001)					
			2014	2/48	2/48	0.000002	(0.000002)	42/63	42/63	0.000002～ 0.00015	(0.000002)	Bivalves 1/3 Fish 12/19 Birds 1/2	Bivalves 1/3 Fish 12/19 Birds 1/2	Bivalves 0.000006 Fish 0.000005～ 0.000029 Birds 0.00017	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	3/36	3/36	0.00012～ 0.00016	(0.00008)					
			2015	3/48	3/48	0.0000020～ 0.0000071	(0.0000014)	38/62	38/62	0.0000015～ 0.00036	(0.0000008)	Bivalves 0/3 Fish 8/19 Birds 1/1	Bivalves 0/3 Fish 8/19 Birds 1/1	Bivalves － Fish 0.000006～ 0.000041 Birds 0.000008	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	3/35	3/35	0.00013～ 0.00056	(0.00005)					
			2016	8/48	8/48	0.0000008～ 0.0000035	(0.0000008)	31/62	31/62	0.000003～ 0.00022	(0.000003)	Bivalves 0/3 Fish 6/19 Birds 2/2	Bivalves 0/3 Fish 6/19 Birds 2/2	Bivalves － Fish 0.000007～ 0.000029 Birds 0.000011～ 0.00015	(Bivalves 0.000007) (Fish 0.000007) (Birds 0.000007)	2/37	2/37	0.0002～0.0011	(0.0001)					
			2017	1/47	1/47	0.000004	(0.000003)	42/62	42/62	0.000002～ 0.00019	(0.000002)	Bivalves 0/3 Fish 8/19 Birds 1/2	Bivalves 0/3 Fish 8/19 Birds 1/2	Bivalves － Fish 0.000007～ 0.000027 Birds 0.00024	(Bivalves 0.000007) (Fish 0.000007) (Birds 0.000007)	9/37	9/37	0.00004～ 0.00065	(0.00004)					
			2018	7/47	7/47	0.000001～0.000011	(0.000001)	49/61	49/61	0.000001～ 0.00034	(0.000001)	Bivalves 0/3 Fish 5/18 Birds 2/2	Bivalves 0/3 Fish 5/18 Birds 2/2	Bivalves － Fish 0.000008～ 0.000024 Birds 0.000082～ 0.00019	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)	6/37	6/37	0.00006～ 0.00097	(0.00006)					
			2019	5/48	5/48	0.000001～0.000003	(0.000001)	35/61	35/61	0.000002～ 0.00015	(0.000002)	Bivalves 0/3 Fish 2/16 Birds 1/1	Bivalves 0/3 Fish 2/16 Birds 1/1	Bivalves － Fish 0.000012～ 0.000021 Birds 0.000058	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)	12/36	12/36	0.00003～ 0.00035	(0.00003)					
			2022	3/48	3/48	0.000001～0.000002	(0.000001)	40/61	40/61	0.000001～ 0.00018	(0.000001)	Bivalves 0/3 Fish 10/18 Birds 2/2	Bivalves 0/3 Fish 10/18 Birds 2/2	Bivalves － Fish 0.000002～ 0.000014 Birds 0.000081～ 0.000091	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	1/36	1/36	0.00037	(0.00006)					
851-6-2	2,2',4,4',5,6'-Hexabromodiphenyl ether (PBDE#154)	207122-15-4	2009	25/49	25/49	0.0000007～0.000004	(0.0000006)	135/192	51/64	0.000002～ 0.00018	(0.000002)					W.S. 16/37 C.S. 21/37	W.S. 16/37 C.S. 21/37	W.S. 0.00003～ 0.00090 C.S. 0.00003～ 0.0033	(W.S. 0.00003) (C.S. 0.00003)					851-6-2
			2010	3/49	3/49	0.0000002～0.000010	(0.000002)	57/64	57/64	0.0000007～ 0.000072	(0.0000007)	Bivalves 3/6 Fish 16/18 Birds 2/2	Bivalves 3/6 Fish 16/18 Birds 2/2	Bivalves 0.000004～ 0.000010 Fish 0.000004～0.00013 Birds 0.000023～ 0.00006	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 10/37 C.S. 18/37	W.S. 10/37 C.S. 18/37	W.S. 0.00006～ 0.0020 C.S. 0.00006～ 0.0018	(W.S. 0.00006) (C.S. 0.00006)					
			2011	4/49	4/49	0.000001～0.000013	(0.000001)	53/64	53/64	0.000001～ 0.00050	(0.000001)	Bivalves 2/4 Fish 16/18 Birds 1/1	Bivalves 2/4 Fish 16/18 Birds 1/1	Bivalves 0.000008～ 0.000012 Fish 0.000004～0.00013 Birds 0.000024	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 16/35 C.S. 22/37	W.S. 16/35 C.S. 22/37	W.S. 0.00004～ 0.00048 C.S. 0.00004～ 0.00038	(W.S. 0.00004) (C.S. 0.00004)					
			2012	6/48	6/48	0.000001～0.000003	(0.000001)	43/63	43/63	0.000002～ 0.00019	(0.000002)	Bivalves 3/5 Fish 18/19 Birds 2/2	Bivalves 3/5 Fish 18/19 Birds 2/2	Bivalves 0.000008～ 0.000031 Fish 0.000006～0.00015 Birds 0.000034～ 0.00011	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 9/36 C.S. 16/36	W.S. 9/36 C.S. 16/36	W.S. 0.00004～ 0.00035 C.S. 0.00004～ 0.00010	(W.S. 0.00004) (C.S. 0.00004)					
			2014	7/48	7/48	0.0000006～ 0.0000015	(0.0000005)	43/63	43/63	0.000001～ 0.000052	(0.000001)	Bivalves 1/3 Fish 18/19 Birds 2/2	Bivalves 1/3 Fish 18/19 Birds 2/2	Bivalves 0.000014 Fish 0.000007～0.00046 Birds 0.000021～ 0.00039	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	2/36	2/36	0.00009～ 0.00011	(0.00008)					
			2015	4/48	4/48	0.0000029～ 0.0000048	(0.0000006)	39/62	39/62	0.000002～ 0.00011	(0.000001)	Bivalves 1/3 Fish 18/19 Birds 1/1	Bivalves 1/3 Fish 18/19 Birds 1/1	Bivalves 0.000010 Fish 0.000007～ 0.000099 Birds 0.000018	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	3/35	3/35	0.00012～ 0.00060	(0.00008)					
			2016	13/48	13/48	0.0000003～ 0.0000029	(0.0000003)	46/62	46/62	0.000001～ 0.000061	(0.000001)	Bivalves 1/3 Fish 18/19 Birds 2/2	Bivalves 1/3 Fish 18/19 Birds 2/2	Bivalves 0.000004 Fish 0.000006～ 0.000070 Birds 0.000042～ 0.00048	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	2/37	2/37	0.00010～ 0.0012	(0.00008)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2017	2/47	2/47	0.000002	(0.000002)	40/62	40/62	0.000002～0.000068	(0.000002)	Bivalves 1/3 Fish 16/19 Birds 2/2	Bivalves 1/3 Fish 16/19 Birds 2/2	Bivalves 0.000006 Fish 0.000007～0.000078 Birds 0.000030～0.00064	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	8/37	8/37	0.00003～0.00037	(0.00003)					
			2018	6/47	6/47	0.000001～0.000020	(0.000001)	49/61	49/61	0.0000008～0.00011	(0.0000008)	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 0.000006 Fish 0.000006～0.000077 Birds 0.00018～0.00088	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	3/37	3/37	0.00008～0.00040	(0.00005)					
			2019	2/48	2/48	0.000001～0.000002	(0.000001)	38/61	38/61	0.000002～0.000055	(0.000002)	Bivalves 0/3 Fish 11/16 Birds 1/1	Bivalves 0/3 Fish 11/16 Birds 1/1	Bivalves － Fish 0.000011～0.000079 Birds 0.00028	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)	10/36	10/36	0.00003～0.00033	(0.00003)					
			2022	2/48	2/48	0.000001～0.000002	(0.000001)	41/61	41/61	0.000001～0.000056	(0.000001)	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 0.000002 Fish 0.000002～0.000050 Birds 0.00014	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	1/36	1/36	0.00017	(0.00007)					
851-7	Heptabromodiphenyl ethers	68928-80-3	2001													20/36	9/12	0.00021～0.038	(0.00020)					851-7
			2004													6/9	3/3	0.00015～0.00041	(0.00014)					
			2005	0/3	0/1	－	(0.00010*)																	
			2008									Bivalves 20/31 Fish 44/85 Birds 10/10	Bivalves 7/7 Fish 10/17 Birds 2/2	Bivalves 0.0000068～0.000035 Fish 0.0000075～0.000077 Birds 0.000019～0.000053	(Bivalves 0.0000067) (Fish 0.0000067) (Birds 0.0000067)									
			2009	9/49	9/49	0.000003～0.000040	(0.000002)	125/192	51/64	0.000004～0.016	(0.000004)					W.S. 17/37 C.S. 25/37	W.S. 17/37 C.S. 25/37	W.S. 0.0001～0.0017 C.S. 0.0001～0.020	(W.S. 0.0001) (C.S. 0.0001)					
			2010	17/49	17/49	0.000001～0.000014	(0.000001)	58/64	58/64	0.000002～0.00093	(0.000002)	Bivalves 1/6 Fish 4/18 Birds 1/2	Bivalves 1/6 Fish 4/18 Birds 1/2	Bivalves 0.00001～0.00001 Fish 0.00001～0.00004 Birds 0.00007	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	W.S. 24/37 C.S. 28/37	W.S. 24/37 C.S. 28/37	W.S. 0.0001～0.0014 C.S. 0.0001～0.011	(W.S. 0.0001) (C.S. 0.0001)					
			2011	14/49	14/49	0.000002～0.000014	(0.000002)	55/64	55/64	0.000003～0.0024	(0.000003)	Bivalves 3/4 Fish 13/18 Birds 1/1	Bivalves 3/4 Fish 13/18 Birds 1/1	Bivalves 0.000011～0.000044 Fish 0.000006～0.00013 Birds 0.000044	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 20/35 C.S. 25/37	W.S. 20/35 C.S. 25/37	W.S. 0.0001～0.0011 C.S. 0.0001～0.0023	(W.S. 0.0001) (C.S. 0.0001)					
			2012	9/48	9/48	0.000002～0.000010	(0.000001)	48/63	48/63	0.000002～0.0044	(0.000002)	Bivalves 3/5 Fish 11/19 Birds 2/2	Bivalves 3/5 Fish 11/19 Birds 2/2	Bivalves 0.000006～0.000059 Fish 0.000012～0.00012 Birds 0.000014～0.00028	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	W.S. 6/36 C.S. 8/36	W.S. 6/36 C.S. 8/36	W.S. 0.0003～0.0018 C.S. 0.0002～0.0007	(W.S. 0.0002) (C.S. 0.0002)					
			2014	3/48	3/48	0.000004～0.000008	(0.000003)	41/63	41/63	0.000006～0.00068	(0.000006)	Bivalves 1/3 Fish 10/19 Birds 1/2	Bivalves 1/3 Fish 10/19 Birds 1/2	Bivalves 0.000013 Fish 0.000013～0.00028 Birds 0.00015	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	2/36	2/36	0.0002～0.0004	(0.0002)					
			2015	9/48	9/48	0.0000012～0.000028	(0.0000008)	44/62	44/62	0.000002～0.0018	(0.000001)	Bivalves 1/3 Fish 4/19 Birds 1/1	Bivalves 1/3 Fish 4/19 Birds 1/1	Bivalves 0.000011 Fish 0.000006～0.000044 Birds 0.000011	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	2/35	2/35	0.0006	(0.0004)					
			2016	10/48	10/48	0.000003～0.000011	(0.000003)	44/62	44/62	0.000002～0.0011	(0.000002)	Bivalves 1/3 Fish 11/19 Birds 2/2	Bivalves 1/3 Fish 11/19 Birds 2/2	Bivalves 0.000008 Fish 0.000006～0.000085 Birds 0.000019～0.00022	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	1/37	1/37	0.0013	(0.0004)					
			2017	1/47	1/47	0.000030	(0.000005)	36/62	36/62	0.000006～0.00058	(0.000006)	Bivalves 1/3 Fish 10/19 Birds 2/2	Bivalves 1/3 Fish 10/19 Birds 2/2	Bivalves 0.000009 Fish 0.000012～0.000055 Birds 0.000018～0.00044	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)	10/37	10/37	0.0002～0.0032	(0.0002)					
			2018	3/47	3/47	0.000004～0.000065	(0.000003)	46/61	46/61	0.000006～0.0019	(0.000005)	Bivalves 1/3 Fish 11/18 Birds 2/2	Bivalves 1/3 Fish 11/18 Birds 2/2	Bivalves 0.000010 Fish 0.000006～0.000058 Birds 0.00011～0.00048	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	16/37	16/37	0.00009～0.0013	(0.00008)					
			2019	2/48	2/48	0.000003～0.000006	(0.000002)	39/61	39/61	0.000004～0.0014	(0.000003)	Bivalves 1/3 Fish 9/16 Birds 1/1	Bivalves 1/3 Fish 9/16 Birds 1/1	Bivalves 0.000018 Fish 0.000009～0.000082 Birds 0.00026	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)	24/36	24/36	0.0001～0.0027	(0.0001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2022	1/48	1/48	0.000006	(0.000003)	39/61	39/61	0.000003～0.00094	(0.000003)	Bivalves 0/3 Fish 4/18 Birds 2/2	Bivalves 0/3 Fish 4/18 Birds 2/2	Bivalves － Fish 0.000004～0.000008 Birds 0.000049～0.000096	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	1/36	1/36	0.0010	(0.0002)					
851-7-1	Total of 2,2',3,4,4',5',6'-Heptabromodiphenyl ether (PBDE#175) and 2,2',3,4,4',5',6'-Heptabromodiphenyl ether (PBDE#183)	446255-22-7 207122-16-5	2009	9/49	9/49	0.000003～0.000040	(0.000002)	108/192	44/64	0.000008～0.0040	(0.000007)					W.S. 13/37 C.S. 20/37	W.S. 13/37 C.S. 20/37	W.S. 0.0001～0.0007 C.S. 0.0001～0.0042	(W.S. 0.0001) (C.S. 0.0001)					851-7-1
			2010	10/49	10/49	0.000001～0.000005	(0.000001)	54/64	54/64	0.000002～0.00049	(0.000002)	Bivalves 0/6 Fish 1/18 Birds 1/2	Bivalves 0/6 Fish 1/18 Birds 1/2	Bivalves － Fish 0.00002～0.00002 Birds 0.00004	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	W.S. 15/37 C.S. 26/37	W.S. 15/37 C.S. 26/37	W.S. 0.0001～0.0004 C.S. 0.0001～0.011	(W.S. 0.0001) (C.S. 0.0001)					
			2011	10/49	10/49	0.000002～0.000008	(0.000002)	51/64	51/64	0.000003～0.00082	(0.000003)	Bivalves 1/4 Fish 1/18 Birds 1/1	Bivalves 1/4 Fish 1/18 Birds 1/1	Bivalves 0.000009 Fish 0.000018 Birds 0.000021	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 10/35 C.S. 20/37	W.S. 10/35 C.S. 20/37	W.S. 0.0001～0.0010 C.S. 0.0001～0.0009	(W.S. 0.0001) (C.S. 0.0001)					
			2012	9/48	9/48	0.000002～0.000007	(0.000002)	48/63	48/63	0.000002～0.0014	(0.000002)	Bivalves 1/5 Fish 1/19 Birds 1/2	Bivalves 1/5 Fish 1/19 Birds 1/2	Bivalves 0.000005 Fish 0.000006 Birds 0.00011	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	W.S. 3/36 C.S. 1/36	W.S. 3/36 C.S. 1/36	W.S. 0.0002～0.0006 C.S. 0.0007	(W.S. 0.0002) (C.S. 0.0002)					
			2014	3/48	3/48	0.000004～0.000008	(0.000002)	31/63	31/63	0.000006～0.00047	(0.000006)	Bivalves 0/3 Fish 1/19 Birds 1/2	Bivalves 0/3 Fish 1/19 Birds 1/2	Bivalves － Fish 0.000013 Birds 0.000008	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)									
			2015	9/48	9/48	0.000001～0.000028	(0.000001)	39/62	39/62	0.000004～0.0017	(0.000004)	Bivalves 0/3 Fish 0/19 Birds 1/1	Bivalves 0/3 Fish 0/19 Birds 1/1	Bivalves － Fish － Birds 0.000005	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)									
			2016	9/48	9/48	0.000003～0.000010	(0.000003)	42/62	42/62	0.000002～0.00091	(0.000002)	Bivalves 0/3 Fish 0/19 Birds 1/2	Bivalves 0/3 Fish 0/19 Birds 1/2	Bivalves － Fish － Birds 0.000010	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)									
			2017	1/47	1/47	0.000030	(0.000005)	34/62	34/62	0.000006～0.00036	(0.000006)	Bivalves 0/3 Fish 0/19 Birds 0/2	Bivalves 0/3 Fish 0/19 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)									
			2018	3/47	3/47	0.000004～0.000028	(0.000003)	42/61	42/61	0.000005～0.00077	(0.000005)	Bivalves 0/3 Fish 0/18 Birds 2/2	Bivalves 0/3 Fish 0/18 Birds 2/2	Bivalves － Fish － Birds 0.000007～0.000036	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)									
			2019	1/48	1/48	0.000006	(0.000002)	38/61	38/61	0.000004～0.0012	(0.000003)	Bivalves 0/3 Fish 0/16 Birds 0/1	Bivalves 0/3 Fish 0/16 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)									
			2022	1/48	1/48	0.000006	(0.000003)	35/61	35/61	0.000003～0.00082	(0.000003)	Bivalves 0/3 Fish 0/18 Birds 1/2	Bivalves 0/3 Fish 0/18 Birds 1/2	Bivalves － Fish － Birds 0.000013	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)									
851-7-1-1	2,2',3,4,4',5',6'-Heptabromodiphenyl ether (PBDE#175)		2014													0/36	0/36	－	(0.0001)					851-7-1-1
			2015													1/35	1/35	0.00028	(0.00006)					
			2016													0/37	0/37	－	(0.0005)					
			2017													2/37	2/37	0.00006～0.00011	(0.00006)					
			2018													0/37	0/37	－	(0.00006)					
			2019													7/36	7/36	0.00002～0.00009	(0.00002)					
			2022													0/36	0/36	－	(0.00006)					
851-7-1-2	2,2',3,4,4',5',6'-Heptabromodiphenyl ether (PBDE#183)		2014													1/36	1/36	0.0002	(0.0002)					851-7-1-2
			2015													2/35	2/35	0.00029～0.00042	(0.00013)					
			2016													1/37	1/37	0.0013	(0.0010)					
			2017													10/37	10/37	0.00006～0.00075	(0.00006)					
			2018													18/37	18/37	0.00004～0.00047	(0.00004)					
			2019													19/36	19/36	0.00003～0.00049	(0.00003)					
			2022													4/36	4/36	0.00006～0.00096	(0.00006)					
851-8	Octabromodiphenyl ethers	32536-52-0	1987	0/75	0/25	－	(0.1)	3/51	1/17	0.008～0.021	(0.007)	Fish 0/75	Fish 0/24	Fish －	(Fish 0.005)									851-8
			1988	0/147	0/49	－	(0.07)	3/135	1/45	0.015～0.022	(0.005)	Fish 0/144	Fish 0/48	Fish －	(Fish 0.004)									
			2002																	Food 0/50		－ng/g-wet	(0.2～0.5)	
			2003	0/114	0/38	－	(0.003)					Fish 23/27	Fish 8/9	Fish 0.0000010～0.000064	(Fish 0.0000007)									
			2004																	Indoor air 0/68	0/11	－ng/m^3	(0.02～0.03)	
			2008									Bivalves 15/31 Fish 35/85 Birds 10/10	Bivalves 6/7 Fish 7/17 Birds 2/2	Bivalves 0.0000038～0.000010 Fish 0.0000036～0.000073 Birds 0.000030～0.000064	(Bivalves 0.0000036) (Fish 0.0000036) (Birds 0.0000036)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2009	37/49	37/49	0.0000008～0.000056	(0.0000006)	182/192	63/64	0.0000005～0.11	(0.0000005)					W.S. 23/37 C.S. 26/37	W.S. 23/37 C.S. 26/37	W.S. 0.0001～0.0016 C.S. 0.0002～0.0071	(W.S. 0.0001) (C.S. 0.0001)					
			2010	40/49	40/49	0.0000003～0.000069	(0.000001)	60/64	60/64	0.000004～0.0018	(0.000004)	Bivalves 2/6 Fish 8/18 Birds 2/2	Bivalves 2/6 Fish 8/18 Birds 2/2	Bivalves 0.000004～0.000010 Fish 0.000005～0.00010 Birds 0.000026～0.000065	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 30/37 C.S. 32/37	W.S. 30/37 C.S. 32/37	W.S. 0.00015～0.0023 C.S. 0.00009～0.0069	(W.S. 0.00006) (C.S. 0.00006)					
			2011	44/49	44/49	0.0000006～0.000098	(0.000001)	55/64	55/64	0.000006～0.036	(0.000004)	Bivalves 3/4 Fish 10/18 Birds 1/1	Bivalves 3/4 Fish 10/18 Birds 1/1	Bivalves 0.000006～0.000029 Fish 0.000003～0.00015 Birds 0.000066	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 27/35 C.S. 30/37	W.S. 27/35 C.S. 30/37	W.S. 0.00012～0.0019 C.S. 0.00008～0.0070	(W.S. 0.00008) (C.S. 0.00008)					
			2012	16/48	16/48	0.000003～0.000035	(0.000002)	47/63	47/63	0.000008～0.015	(0.000006)	Bivalves 4/5 Fish 12/19 Birds 2/2	Bivalves 4/5 Fish 12/19 Birds 2/2	Bivalves 0.000005～0.000025 Fish 0.000003～0.00016 Birds 0.000040～0.00042	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 29/36 C.S. 30/36	W.S. 29/36 C.S. 30/36	W.S. 0.0001～0.0012 C.S. 0.0001～0.0012	(W.S. 0.0001) (C.S. 0.0001)					
			2014	33/48	33/48	0.0000006～0.000038	(0.0000006)	55/63	55/63	0.000004～0.002	(0.000004)	Bivalves 3/3 Fish 15/19 Birds 1/2	Bivalves 3/3 Fish 15/19 Birds 1/2	Bivalves 0.000005～0.000014 Fish 0.000005～0.00054 Birds 0.00014	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	22/36	22/36	0.0001～0.0007	(0.0001)					
			2015	31/48	31/48	0.0000008～0.000036	(0.0000006)	41/62	41/62	0.000021～0.0014	(0.000016)	Bivalves 0/3 Fish 9/19 Birds 1/1	Bivalves 0/3 Fish 9/19 Birds 1/1	Bivalves － Fish 0.000008～0.000060 Birds 0.000005	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	9/35	9/35	0.0004～0.0038	(0.0004)					
			2016	44/48	44/48	0.0000003～0.00023	(0.0000003)	55/62	55/62	0.000002～0.0014	(0.000002)	Bivalves 0/3 Fish 9/19 Birds 2/2	Bivalves 0/3 Fish 9/19 Birds 2/2	Bivalves － Fish 0.000009～0.000086 Birds 0.000019～0.00022	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	18/37	18/37	0.0002～0.0016	(0.0002)					
			2017	22/47	22/47	0.000001～0.000033	(0.000001)	48/62	48/62	0.000004～0.0019	(0.000002)	Bivalves 1/3 Fish 9/19 Birds 2/2	Bivalves 1/3 Fish 9/19 Birds 2/2	Bivalves 0.000009 Fish 0.000009～0.000088 Birds 0.000025～0.00072	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)	28/37	28/37	0.00007～0.0057	(0.00007)					
			2018	35/47	35/47	0.000001～0.000069	(0.000001)	57/61	57/61	0.0000005～0.0055	(0.0000005)	Bivalves 0/3 Fish 8/18 Birds 2/2	Bivalves 0/3 Fish 8/18 Birds 2/2	Bivalves － Fish 0.000006～0.000074 Birds 0.000061～0.00058	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	34/37	34/37	0.00004～0.0013	(0.00004)					
			2019	12/48	12/48	0.000001～0.000014	(0.000001)	50/61	50/61	0.000001～0.0020	(0.000001)	Bivalves 1/3 Fish 8/16 Birds 1/1	Bivalves 1/3 Fish 8/16 Birds 1/1	Bivalves 0.000039 Fish 0.000008～0.00012 Birds 0.00033	(Bivalves 0.000007) (Fish 0.000007) (Birds 0.000007)	32/36	32/36	0.0001～0.0026	(0.0001)					
			2022	17/48	17/48	0.0000008～0.000026	(0.0000008)	45/61	45/61	0.000003～0.0016	(0.000003)	Bivalves 1/3 Fish 13/18 Birds 2/2	Bivalves 1/3 Fish 13/18 Birds 2/2	Bivalves 0.000001 Fish 0.000001～0.000029 Birds 0.00015～0.00018	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	12/36	12/36	0.0001～0.0004	(0.0001)					
851-9	Nonabromodiphenyl ethers	63936-56-1	2005	0/3	0/1	－	(0.00072*)																	851-9
			2008									Bivalves 5/31 Fish 2/85 Birds 9/10	Bivalves 1/7 Fish 2/17 Birds 2/2	Bivalves 0.000017～0.000023 Fish 0.000014～0.000015 Birds 0.000016～0.000033	(Bivalves 0.000013) (Fish 0.000013) (Birds 0.000013)									
			2009	32/49	32/49	0.000032～0.00050	(0.00003)	181/192	64/64	0.000004～0.23	(0.000004)					W.S. 22/37 C.S. 27/37	W.S. 22/37 C.S. 27/37	W.S. 0.0006～0.0030 C.S. 0.0006～0.0039	(W.S. 0.0006) (C.S. 0.0006)					
			2010	39/49	39/49	0.000007～0.00062	(0.000007)	60/64	60/64	0.000011～0.026	(0.000009)	Bivalves 5/6 Fish 3/18 Birds 2/2	Bivalves 5/6 Fish 3/18 Birds 2/2	Bivalves 0.00001～0.00006 Fish 0.00001～0.00004 Birds 0.00002～0.00005	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	W.S. 12/37 C.S. 22/37	W.S. 12/37 C.S. 22/37	W.S. 0.0012～0.024 C.S. 0.0012～0.0071	(W.S. 0.0012) (C.S. 0.0012)					
			2011	47/49	47/49	0.0000016～0.00092	(0.000004)	62/64	62/64	0.000009～0.070	(0.000009)	Bivalves 3/4 Fish 5/18 Birds 1/1	Bivalves 3/4 Fish 5/18 Birds 1/1	Bivalves 0.000009～0.000040 Fish 0.000009～0.000015 Birds 0.000062	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)	W.S. 29/35 C.S. 30/37	W.S. 29/35 C.S. 30/37	W.S. 0.0005～0.0039 C.S. 0.0004～0.014	(W.S. 0.0004) (C.S. 0.0004)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2012	30/48	30/48	0.000015～0.00032	(0.000013)	52/63	52/63	0.000017～0.084	(0.000011)	Bivalves 3/5 Fish 9/19 Birds 2/2	Bivalves 3/5 Fish 9/19 Birds 2/2	Bivalves 0.000025～0.000045 Fish 0.000010～0.000054 Birds 0.000067～0.00015	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)	W.S. 24/36 C.S. 30/36	W.S. 24/36 C.S. 30/36	W.S. 0.0004～0.0051 C.S. 0.0005～0.0047	(W.S. 0.0004) (C.S. 0.0004)					
			2014	47/48	47/48	0.000002～0.00059	(0.000002)	60/63	60/63	0.00002～0.042	(0.00002)	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 0.00002～0.00011 Fish 0.00001～0.00004 Birds 0.00001～0.00002	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	7/36	7/36	0.001～0.003	(0.001)					
			2015	47/48	47/48	0.000009～0.00033	(0.000002)	55/62	55/62	0.000018～0.011	(0.000008)	Bivalves 1/3 Fish 6/19 Birds 1/1	Bivalves 1/3 Fish 6/19 Birds 1/1	Bivalves 0.000011 Fish 0.000009～0.000035 Birds 0.000012	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)	14/35	14/35	0.0011～0.012	(0.0011)					
			2016	48/48	48/48	0.000002～0.0039	(0.000001)	60/62	60/62	0.000009～0.026	(0.000009)	Bivalves 0/3 Fish 3/19 Birds 1/2	Bivalves 0/3 Fish 3/19 Birds 1/2	Bivalves － Fish 0.000015～0.000022 Birds 0.000021	(Bivalves 0.000014) (Fish 0.000014) (Birds 0.000014)	28/37	28/37	0.0005～0.011	(0.0005)					
			2017	37/47	37/47	0.000003～0.00046	(0.000003)	61/62	61/62	0.000006～0.029	(0.000005)	Bivalves 0/3 Fish 1/19 Birds 0/2	Bivalves 0/3 Fish 1/19 Birds 0/2	Bivalves － Fish 0.000068 Birds －	(Bivalves 0.000020) (Fish 0.000020) (Birds 0.000020)	31/37	31/37	0.0002～0.040	(0.0002)					
			2018	46/47	46/47	0.000002～0.00017	(0.000002)	60/61	60/61	0.000002～0.056	(0.000002)	Bivalves 0/3 Fish 0/18 Birds 2/2	Bivalves 0/3 Fish 0/18 Birds 2/2	Bivalves － Fish － Birds 0.000046～0.000053	(Bivalves 0.000020) (Fish 0.000020) (Birds 0.000020)	31/37	31/37	0.0002～0.0030	(0.0002)					
			2019	27/48	27/48	0.000007～0.00015	(0.000003)	59/61	59/61	0.000002～0.040	(0.000002)	Bivalves 1/3 Fish 0/16 Birds 0/1	Bivalves 1/3 Fish 0/16 Birds 0/1	Bivalves 0.000081 Fish － Birds －	(Bivalves 0.00002) (Fish 0.00002) (Birds 0.00002)	34/36	34/36	0.0001～0.0031	(0.0001)					
			2022	25/48	25/48	0.000004～0.00067	(0.000004)	56/61	56/61	0.000012～0.043	(0.000005)	Bivalves 0/3 Fish 0/18 Birds 1/2	Bivalves 0/3 Fish 0/18 Birds 1/2	Bivalves － Fish － Birds 0.000010	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	15/36	15/36	0.0003～0.0010	(0.0003)					
851-10	Decabromodiphenyl ether (PBDE#209)	1163-19-5	1977	0/15	0/7	－	(0.2～2.5)	0/15	0/7	－	(0.025～0.87)													851-10
			1987	0/75	0/25	－	(0.1)	16/60	6/20	0.010～1.37	(0.007)	Fish 0/75	Fish 0/24	Fish －	(Fish 0.005)									
			1988	0/141	0/47	－	(0.06)	39/129	15/43	0.004～6	(0.004)	Fish 0/138	Fish 0/46	Fish －	(Fish 0.005)									
			1996	0/33	0/11	－	(0.2)	15/33	6/11	0.030～0.58	(0.025)													
			2002	2/114	1/38	0.24～0.59	(0.12)	82/186	34/62	0.010～4.4	(0.0097)	Fish 0/30	Fish 0/10	Fish －	(Fish 0.00025)									
			2003					6/15	2/5	0.037～0.076	(0.0097)	Fish 0/6	Fish 0/2	Fish －	(Fish 0.001)									
			2005	0/18	0/6	－	(0.0013)																	
			2008									Bivalves 8/31 Fish 5/76 Birds 4/10	Bivalves 3/7 Fish 4/16 Birds 1/2	Bivalves 0.00010～0.00017 Fish 0.000084～0.00023 Birds 0.000086～0.00011	(Bivalves 0.000074) (Fish 0.000074) (Birds 0.000074)									
			2009	26/49	26/49	0.00021～0.0034	(0.0002)	192/192	64/64	0.00003～0.88	(0.00002)					W.S. 28/37 C.S. 29/37	W.S. 28/37 C.S. 29/37	W.S. 0.005～0.031 C.S. 0.005～0.045	(W.S. 0.005) (C.S. 0.005)					
			2010	31/49	31/49	0.00012～0.013	(0.0001)	60/64	60/64	0.00011～0.70	(0.00008)	Bivalves 2/6 Fish 2/18 Birds 0/2	Bivalves 2/6 Fish 2/18 Birds 0/2	Bivalves 0.00014～0.00019 Fish 0.00011～0.00015 Birds －	(Bivalves 0.000097) (Fish 0.000097) (Birds 0.000097)	W.S. 10/37 C.S. 21/37	W.S. 10/37 C.S. 21/37	W.S. 0.0093～0.29 C.S. 0.012～0.088	(W.S. 0.0091) (C.S. 0.0091)					
			2011	45/49	45/49	0.000015～0.058	(0.00002)	62/64	62/64	0.000025～0.70	(0.00002)	Bivalves 1/4 Fish 2/18 Birds 1/1	Bivalves 1/4 Fish 2/18 Birds 1/1	Bivalves 0.00024 Fish 0.00008～0.00009 Birds 0.00017	(Bivalves 0.00008) (Fish 0.00008) (Birds 0.00008)	W.S. 31/35 C.S. 29/37	W.S. 31/35 C.S. 29/37	W.S. 0.0040～0.030 C.S. 0.0040～0.044	(W.S. 0.0040) (C.S. 0.0040)					
			2012	31/48	31/48	0.00022～0.012	(0.00022)	60/63	60/63	0.00011～0.76	(0.000089)	Bivalves 4/5 Fish 11/19 Birds 2/2	Bivalves 4/5 Fish 11/19 Birds 2/2	Bivalves 0.00005～0.00048 Fish 0.00006～0.00038 Birds 0.00024～0.00026	(Bivalves 0.00005) (Fish 0.00005) (Birds 0.00005)	W.S. 17/36 C.S. 28/36	W.S. 17/36 C.S. 28/36	W.S. 0.005～0.031 C.S. 0.006～0.073	(W.S. 0.005) (C.S. 0.005)					
			2014	48/48	48/48	0.000014～0.0056	(0.000009)	61/63	61/63	0.00010～0.98	(0.00008)	Bivalves 3/3 Fish 13/19 Birds 1/2	Bivalves 3/3 Fish 13/19 Birds 1/2	Bivalves 0.00012～0.00057 Fish 0.00006～0.0003 Birds 0.00014	(Bivalves 0.00006) (Fish 0.00006) (Birds 0.00006)	24/36	24/36	0.004～0.064	(0.003)					
			2015	48/48	48/48	0.00014～0.013	(0.000007)	62/62	62/62	0.00004～0.49	(0.00002)	Bivalves 1/3 Fish 5/19 Birds 1/1	Bivalves 1/3 Fish 5/19 Birds 1/1	Bivalves 0.00007 Fish 0.00008～0.00038 Birds 0.00009	(Bivalves 0.00007) (Fish 0.00007) (Birds 0.00007)	30/35	30/35	0.0008～0.061	(0.0007)					
			2016	48/48	48/48	0.000012～0.034	(0.000006)	61/62	61/62	0.000064～0.94	(0.000041)	Bivalves 1/3 Fish 7/19 Birds 0/2	Bivalves 1/3 Fish 7/19 Birds 0/2	Bivalves 0.00011 Fish 0.00011～0.00019 Birds －	(Bivalves 0.00010) (Fish 0.00010) (Birds 0.00010)	35/37	35/37	0.001～0.086	(0.0010)					
			2017	46/47	46/47	0.000008～0.0041	(0.000008)	62/62	62/62	0.000027～0.58	(0.000010)	Bivalves 1/3 Fish 1/19 Birds 0/2	Bivalves 1/3 Fish 1/19 Birds 0/2	Bivalves 0.00018 Fish 0.0021 Birds －	(Bivalves 0.00008) (Fish 0.00008) (Birds 0.00008)	34/37	34/37	0.0009～0.14	(0.0008)					
			2018	47/47	47/47	0.000012～0.0027	(0.000004)	61/61	61/61	0.000014～0.52	(0.000014)	Bivalves 0/3 Fish 2/18 Birds 2/2	Bivalves 0/3 Fish 2/18 Birds 2/2	Bivalves － Fish 0.00008～0.00011 Birds 0.00009～0.00050	(Bivalves 0.00008) (Fish 0.00008) (Birds 0.00008)	31/37	31/37	0.0008～0.019	(0.0008)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2019	48/48	48/48	0.000010～0.0022	(0.000006)	61/61	61/61	0.000014～0.56	(0.000002)	Bivalves 1/3 Fish 0/16 Birds 0/1	Bivalves 1/3 Fish 0/16 Birds 0/1	Bivalves 0.00018 Fish － Birds －	(Bivalves 0.00007) (Fish 0.00007) (Birds 0.00007)	32/36	32/36	0.0002～0.014	(0.0001)					
			2022	48/48	48/48	0.000007～0.0056	(0.000003)	61/61	61/61	0.000017～0.41	(0.000008)	Bivalves 1/3 Fish 1/18 Birds 1/2	Bivalves 1/3 Fish 1/18 Birds 1/2	Bivalves 0.000015 Fish 0.000007 Birds 0.000009	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	33/36	33/36	0.0006～0.016	(0.0003)					
	Polycarbamate	See *N*,*N*′-Ethylenebis(thiocarbamoylthiozinc) bis(*N*,*N*-dimethyldithiocarbamate)																						
	Polychlorinateddibenzo-*p*-dioxins	See Dioxins (Polychlorinateddibenzo-*p*-dioxins)																						
	Polychlorinateddibenzofurans	See Dioxins (Polychlorinateddibenzofurans)																						
852	Polychlorobiphenyls		1978									Bivalves 10/10 Fish 25/30 Birds 6/7	Bivalves 2/2 Fish 5/6 Birds 1/1	Bivalves 0.01～0.08 Fish 0.01～0.5 Birds 0.01～0.02	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									852
			1979									Bivalves 15/15 Fish 35/40 Birds 6/6	Bivalves 3/3 Fish 7/8 Birds 1/1	Bivalves 0.01～0.08 Fish 0.01～0.7 Birds 0.02～0.03	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1980									Bivalves 15/15 Fish 33/50 Birds 8/8	Bivalves 3/3 Fish 8/10 Birds 1/1	Bivalves 0.01～0.05 Fish 0.01～1 Birds 0.02～0.05	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1981									Bivalves 10/20 Fish 24/46 Birds 7/7	Bivalves 2/4 Fish 6/9 Birds 1/1	Bivalves 0.02～0.06 Fish 0.01～1.8 Birds 0.02～0.03	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1982									Bivalves 11/20 Fish 27/50 Birds 5/9	Bivalves 3/4 Fish 6/10 Birds 2/2	Bivalves 0.01～0.05 Fish 0.01～2.1 Birds 0.01～8.9	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1983									Bivalves 10/20 Fish 28/50 Birds 5/10	Bivalves 2/4 Fish 6/10 Birds 1/2	Bivalves 0.04～0.10 Fish 0.02～0.99 Birds 1.2～2.6	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1984									Bivalves 10/20 Fish 35/60 Birds 9/10	Bivalves 2/4 Fish 7/12 Birds 2/2	Bivalves 0.03～0.09 Fish 0.01～1.0 Birds 0.01～2.3	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1985									Bivalves 10/20 Fish 35/60 Birds 5/10	Bivalves 2/4 Fish 7/12 Birds 1/2	Bivalves 0.03～0.09 Fish 0.06～1.4 Birds 1.4～2.1	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1986									Bivalves 10/20 Fish 42/60 Birds 6/10	Bivalves 2/4 Fish 9/12 Birds 2/2	Bivalves 0.02～0.09 Fish 0.01～1.0 Birds 0.01～1.5	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1987									Bivalves 10/20 Fish 52/65 Birds 10/10	Bivalves 2/4 Fish 11/13 Birds 2/2	Bivalves 0.01～0.06 Fish 0.01～0.40 Birds 0.01～2.8	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1988									Bivalves 10/20 Fish 47/65 Birds 7/10	Bivalves 2/4 Fish 10/13 Birds 2/2	Bivalves 0.01～0.05 Fish 0.01～0.53 Birds 0.01～3.60	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1989									Bivalves 11/21 Fish 41/65 Birds 9/10	Bivalves 3/5 Fish 9/13 Birds 2/2	Bivalves 0.02～0.11 Fish 0.02～0.57 Birds 0.01～1.90	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1990									Bivalves 15/25 Fish 41/65 Birds 5/10	Bivalves 3/5 Fish 9/13 Birds 1/2	Bivalves 0.02～0.07 Fish 0.01～0.73 Birds 1.00～2.00	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1991									Bivalves 20/30 Fish 36/65 Birds 5/10	Bivalves 4/6 Fish 8/13 Birds 1/2	Bivalves 0.02～0.06 Fish 0.01～0.77 Birds 2.0～3.3	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1992									Bivalves 15/30 Fish 37/70 Birds 5/10	Bivalves 3/6 Fish 9/14 Birds 1/2	Bivalves 0.01～0.04 Fish 0.01～0.53 Birds 0.79～1.40	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1993									Bivalves 18/30 Fish 39/70 Birds 5/10	Bivalves 4/6 Fish 10/14 Birds 1/2	Bivalves 0.01～0.03 Fish 0.01～0.87 Birds 0.66～0.87	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
								2/3	2/3	0.080～0.35	(0.010)	Fish 2/3	Fish 2/3	Fish 0.20～0.57	(Fish 0.010)									
			1994									Bivalves 16/30 Fish 39/70 Birds 0/5	Bivalves 4/6 Fish 9/14 Birds 0/1	Bivalves 0.01～0.02 Fish 0.01～0.33 Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
								2/3	2/3	0.38～1.4	(0.010)	Fish 2/3	Fish 2/3	Fish 0.75～1.5	(Fish 0.010)									
			1995									Bivalves 15/30 Fish 34/70 Birds 5/10	Bivalves 3/6 Fish 8/14 Birds 1/2	Bivalves 0.01～0.11 Fish 0.01～0.24 Birds 0.14～0.67	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
								2/3	2/3	0.080～0.33	(0.010)	Fish 3/3	Fish 3/3	Fish 0.020～0.74	(Fish 0.010)									
			1996									Bivalves 15/30 Fish 43/70 Birds 6/10	Bivalves 3/6 Fish 11/14 Birds 2/2	Bivalves 0.01～0.04 Fish 0.01～0.45 Birds 0.01～0.05	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
								16/36	16/36	0.010～0.34	(0.010)	Fish 22/35	Fish 22/35	Fish 0.010～0.25	(Fish 0.010)									
			1997									Bivalves 15/30 Fish 45/70 Birds 5/10	Bivalves 3/6 Fish 10/14 Birds 1/2	Bivalves 0.01～0.03 Fish 0.01～0.37 Birds 0.02	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
								17/40	17/40	0.01～0.14	(0.01)	Bivalves & Fish 26/39	Bivalves & Fish 26/39	Bivalves & Fish 0.01～0.35	(Bivalves & Fish 0.01)	63/63	21/21	0.044～1.5						
			1998									Bivalves 10/30 Fish 39/70 Birds 5/10	Bivalves 2/6 Fish 8/14 Birds 1/2	Bivalves 0.02～0.09 Fish 0.01～0.29 Birds 0.01～0.02	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1999									Bivalves 15/30 Fish 39/70 Birds 7/10	Bivalves 4/6 Fish 9/14 Birds 2/2	Bivalves 0.01～0.05 Fish 0.01～0.78 Birds 0.01～0.02	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)	45/45	15/15	0.11～2.1	(0.003)					
			(2000)									Bivalves 10/30 Fish 36/70 Birds 5/10	Bivalves 2/6 Fish 8/14 Birds 1/2	Bivalves 0.02～0.04 Fish 0.01～0.95 Birds 0.01～0.02	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
				28/28	28/28	0.000095～0.0084	(0.00000003～0.000002)	36/36	36/36	0.000042～0.75	(0.00000006～0.0000009)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.0038～0.35	(Bivalves & Fish 0.00000002～0.0000002)	17/17	17/17	0.091～2.3	(0.0000004～0.0003)					
			(2001)									Bivalves 10/30 Fish 35/72 Birds 5/10	Bivalves 2/6 Fish 7/15 Birds 1/2	Bivalves 0.04～0.07 Fish 0.01～0.40 Birds 0.03～0.17	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
				29/29	29/29	0.000011～0.0033	(0.00000003～0.000030)	39/39	39/39	0.000063～0.51	(0.00000003～0.000010)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.0032～0.53	(Bivalves & Fish 0.00000002～0.0000005)	15/15	15/15	0.062～1.7	(0.0000004～0.005)					
			(2002)	114/114	38/38	0.000060～0.011	(0.0000025*)	189/189	63/63	0.000039～0.63	(0.0000035*)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.0002～0.16 Fish 0.0015～0.55 Birds 0.0048～0.022	(Bivalves 0.0000084*) (Fish 0.0000084*) (Birds 0.0000084*)	102/102	34/34	0.016～0.88	(0.033*)					
			(2003)	36/36	36/36	0.00023～0.0031	(0.0000025*)	186/186	62/62	0.000039～5.6	(0.0000032*)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0010～0.13 Fish 0.00087～0.15 Birds 0.0068～0.042	(Bivalves 0.000017*) (Fish 0.000017*) (Birds 0.000017*)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.036～2.6 C.S. 0.017～0.63	(W.S. 0.0022*) (C.S. 0.0022*)					
			(2004)	38/38	38/38	0.00014～0.0044	(0.0000050*)	189/189	63/63	0.000038～1.3	(0.0000026*)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.0015～0.15 Fish 0.00099～0.54 Birds 0.0059～0.013	(Bivalves 0.000029*) (Fish 0.000029*) (Birds 0.000029*)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.025～3.3 C.S. 0.020～1.5	(W.S. 0.00098*) (C.S. 0.00098*)					
			(2005)	47/47	47/47	0.00014～0.0078	(0.0000032*)	189/189	63/63	0.000042～0.69	(0.0000021*)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00092～0.085 Fish 0.00080～0.54 Birds 0.0056～0.019	(Bivalves 0.000023*) (Fish 0.000023*) (Birds 0.000023*)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.023～1.5 C.S. 0.020～0.38	(W.S. 0.00014*) (C.S. 0.00014*)					
			(2006)	48/48	48/48	0.000015～0.0043	(0.000003*)	192/192	64/64	0.000036～0.69	(0.000001*)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00069～0.077 Fish 0.00099～0.31 Birds 0.0056～0.048	(Bivalves 0.000014*) (Fish 0.000014*) (Birds 0.000014*)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.021～1.5 C.S. 0.019～0.45	(W.S. 0.0003*) (C.S. 0.0003*)					
			(2007)	48/48	48/48	0.000012～0.0027	(0.0000029*)	192/192	64/64	0.000019～0.82	(0.0000015*)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00098～0.066 Fish 0.00079～0.53 Birds 0.0039～0.015	(Bivalves 0.000018*) (Fish 0.000018*) (Birds 0.000018*)	W.S. 24/24 C.S. 22/22	W.S. 24/24 C.S. 22/22	W.S. 0.037～0.98 C.S. 0.025～0.23	(W.S. 0.00013*) (C.S. 0.00013*)					
			(2008)	48/48	48/48	0.000027～0.0043	(0.0000030*)	192/192	64/64	0.000022～0.63	(0.0000012*)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.00087～0.069 Fish 0.0012～0.33 Birds 0.0030～0.056	(Bivalves 0.000017*) (Fish 0.000017*) (Birds 0.000017*)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.052～0.96 C.S. 0.021～1.5	(W.S. 0.00030*) (C.S. 0.00030*)					
			(2009)	48/48	48/48	0.000014～0.0039	(0.000004*)	192/192	64/64	0.000017～1.7	(0.0000021*)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.00078～0.062 Fish 0.00084～0.29 Birds 0.0039～0.0095	(Bivalves 0.000011*) (Fish 0.000011*) (Birds 0.000011*)	W.S. 34/34 C.S. 34/34	W.S. 34/34 C.S. 34/34	W.S. 0.043～1.4 C.S. 0.020～0.38	(W.S. 0.00026*) (C.S. 0.00026*)					
			(2010)	41/49	41/49	0.000034～0.0022	(0.000024*)	56/64	56/64	0.00045～0.71	(0.00022*)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.0015～0.046 Fish 0.00088～0.26 Birds 0.0066～0.0091	(Bivalves 0.000020*) (Fish 0.000020*) (Birds 0.000020*)	W.S. 35/35 C.S. 35/35	W.S. 35/35 C.S. 35/35	W.S. 0.036～0.97 C.S. 0.019～0.63	(W.S. 0.0025*) (C.S. 0.0025*)					
			(2011)	49/49	49/49	0.000016～0.0021	(0.0000017*)	64/64	64/64	0.000024～0.95	(0.0000045*)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.00082～0.065 Fish 0.00090～0.25 Birds 0.0054	(Bivalves 0.000074*) (Fish 0.000074*) (Birds 0.000074*)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.032～0.66 C.S. 0.017～0.32	(W.S. 0.0059*) (C.S. 0.0059*)					
			(2012)	48/48	48/48	0.000072～0.0065	(0.000015*)	63/63	63/63	0.000032～0.64	(0.000018*)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.00068～0.034 Fish 0.00092～0.13 Birds 0.0056～0.0062	(Bivalves 0.000011*) (Fish 0.000011*) (Birds 0.000011*)	W.S. 35/35 C.S. 35/35	W.S. 35/35 C.S. 35/35	W.S. 0.027～0.84 C.S. 0.016～0.28	(W.S. 0.0085*) (C.S. 0.0085*)					
			(2013)	48/48	48/48	0.000013～0.0026	(0.000008*)	62/62	62/62	0.000043～0.65	(0.000013*)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.00073～0.044 Fish 0.0010～0.27 Birds 0.25～0.51	(Bivalves 0.000014*) (Fish 0.000014*) (Birds 0.000014*)	W.S. 35/35 C.S. 35/35	W.S. 35/35 C.S. 35/35	W.S. 0.024～1.1 C.S. 0.019～0.3	(W.S. 0.0065) (C.S. 0.0065)					
			(2014)	48/48	48/48	0.000016～0.0048	(0.0000029*)	63/63	63/63	0.000035～0.44	(0.000021*)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0006～0.015 Fish 0.00094～0.23 Birds 0.015～0.14	(Bivalves 0.000031*) (Fish 0.000031*) (Birds 0.000031*)	36/36	36/36	0.028～1.3	(0.0014*)					
			(2015)	48/48	48/48	0.000034～0.0042	(0.0000073*)	61/62	61/62	0.000039～1.1	(0.000022*)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.00058～0.0096 Fish 0.0013～0.18 Birds 0.0050	(Bivalves 0.000017*) (Fish 0.000017*) (Birds 0.000017*)	35/35	35/35	0.017～0.95	(0.0020*)					
			(2016)	48/48	48/48	0.0000072～0.0031	(0.0000028*)	62/62	62/62	0.000021～0.77	(0.000018*)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.00042～0.012 Fish 0.0012～0.15 Birds 0.0098～0.10	(Bivalves 0.000020*) (Fish 0.000020*) (Birds 0.000020*)	37/37	37/37	0.016～1.3	(0.0027*)					
			(2017)	46/47	46/47	0.0000070～0.0024	(0.0000055*)	61/62	61/62	0.000037～0.61	(0.000005*)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.00050～0.019 Fish 0.00086～0.16 Birds 0.0040～0.38	(Bivalves 0.000023*) (Fish 0.000023*) (Birds 0.000023*)	37/37	37/37	0.026～3.3	(0.0023*)					
			(2018)	47/47	47/47	0.000011～0.0026	(0.000005*)	58/61	58/61	0.000074～0.72	(0.000055*)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.00074～0.012 Fish 0.0012～0.28 Birds 0.085～0.13	(Bivalves 0.000021*) (Fish 0.000021*) (Birds 0.000021*)	37/37	37/37	0.020～0.75	(0.0008*)					
			(2019)	48/48	48/48	0.0000066～0.0034	(0.0000047*)	61/61	61/61	0.000037～0.64	(0.0000033*)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.00035～0.017 Fish 0.0010～0.16 Birds 0.19	(Bivalves 0.000011*) (Fish 0.000011*) (Birds 0.000011*)	36/36	36/36	0.027～0.34	(0.0008*)					
			(2020)	43/46	43/46	0.000008～0.0080	(0.000006*)	58/58	58/58	0.000030～0.40	(0.0000031*)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.00047～0.0099 Fish 0.00069～0.085 Birds 0.074	(Bivalves 0.000011*) (Fish 0.000011*) (Birds 0.000011*)	37/37	37/37	0.021～0.36	(0.0006*)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			(2021)	45/47	45/47	0.000007～0.0059	(0.000006*)	60/60	60/60	0.000033～0.45	(0.0000029*)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.00049～0.0072 Fish 0.00080～0.13 Birds 0.11～0.21	(Bivalves 0.00001*) (Fish 0.00001*) (Birds 0.00001*)	35/35	35/35	0.017～0.34	(0.0008*)					
			(2022)	46/48	46/48	0.000008～0.0039	(0.000005*)	61/61	61/61	0.000020～0.34	(0.000003*)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.00023～0.010 Fish 0.0006～0.15 Birds 0.19～0.20	(Bivalves 0.000005*) (Fish 0.000005*) (Birds 0.000005*)	36/36	36/36	0.018～0.19	(0.0003*)					
			(2023)	47/47	47/47	0.000010～0.0045	(0.000004*)	60/60	60/60	0.000014～0.30	(0.000003*)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.00024～0.0019 Fish 0.00072～0.083 Birds 0.063～0.38	(Bivalves 0.000005*) (Fish 0.000005*) (Birds 0.000005*)	35/35	35/35	0.024～0.19	(0.0008*)					
			(2024)	46/47	46/47	0.000007～0.010	(0.000006*)	60/60	60/60	0.000021～0.52	(0.000007*)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.00017～0.0061 Fish 0.0010～0.13 Birds 0.046～0.91	(Bivalves 0.000008*) (Fish 0.000008*) (Birds 0.000008*)	35/35	35/35	0.0077～0.17	(0.0008*)					
852-1	Monochlorobiphenyls	27323-18-8	2000	27/28	27/28	0.0000026～0.000019	(0.000002)	34/36	34/36	0.0000011～0.0023	(0.0000009)	Bivalves & Fish 34/35	Bivalves & Fish 34/35	Bivalves & Fish 0.00000045～0.00011	(Bivalves & Fish 0.00000005)	16/17	16/17	0.00088～0.047	(0.0003)					852-1
			2001	16/29	16/29	0.0000030～0.00018	(0.000002～0.000006)	39/39	39/39	0.0000008～0.0014	(0.0000002～0.0000008)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.00000076～0.000026	(Bivalves & Fish 0.00000005～0.00000006)	15/15	15/15	0.0015～0.024	(0.0003～0.0005)					
			2002	112/114	38/38	0.00000074～0.000018	(0.00000006)	186/189	63/63	0.00000091～0.0028	(0.00000007)	Bivalves 31/38 Fish 48/70 Birds 1/10	Bivalves 8/8 Fish 8/14 Birds 1/2	Bivalves 0.0000009～0.000018 Fish 0.0000007～0.000079 Birds 0.0000008	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	6/102	34/34	0.030～0.12	(0.03)					
			2003	36/36	36/36	0.00000093～0.000015	(0.0000004)	186/186	62/62	0.00000070～0.013	(0.0000004)	Bivalves 30/30 Fish 68/70 Birds 3/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.00000084～0.000026 Fish 0.00000069～0.000015 Birds 0.00000074～0.00000085	(Bivalves 0.00000069) (Fish 0.00000069) (Birds 0.00000069)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.0021～0.032 C.S. 0.0017～0.058	(W.S. 0.000041) (C.S. 0.000041)					
			2004	37/38	37/38	0.0000007～0.000013	(0.0000006)	180/189	61/63	0.0000006～0.0034	(0.0000006)	Bivalves 15/31 Fish 31/70 Birds 0/10	Bivalves 4/7 Fish 8/14 Birds 0/2	Bivalves 0.0000026～0.000024 Fish 0.0000025～0.000045 Birds －	(Bivalves 0.0000024) (Fish 0.0000024) (Birds 0.0000024)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0014～0.030 C.S. 0.0023～0.084	(W.S. 0.00004) (C.S. 0.00004)					
			2005	47/47	47/47	0.0000007～0.000024	(0.0000005)	178/189	62/63	0.0000005～0.0028	(0.0000005)	Bivalves 7/31 Fish 32/80 Birds 0/10	Bivalves 3/7 Fish 8/16 Birds 0/2	Bivalves 0.0000026～0.000028 Fish 0.0000026～0.000065 Birds －	(Bivalves 0.0000026) (Fish 0.0000026) (Birds 0.0000026)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0011～0.031 C.S. 0.0021～0.040	(W.S. 0.0000054) (C.S. 0.0000054)					
			2006	44/48	44/48	0.0000001～0.000015	(0.0000001)	192/192	64/64	0.0000006～0.0034	(0.0000002)	Bivalves 22/31 Fish 38/80 Birds 0/10	Bivalves 6/7 Fish 9/16 Birds 0/2	Bivalves 0.000002～0.000014 Fish 0.000002～0.000071 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0015～0.033 C.S. 0.00087～0.034	(W.S. 0.00001) (C.S. 0.00001)					
			2007	39/48	39/48	0.0000093	(0.0000003)	192/192	64/64	0.0000002～0.004	(0.0000002)	Bivalves 14/31 Fish 33/80 Birds 0/10	Bivalves 4/7 Fish 8/16 Birds 0/2	Bivalves 0.000002～0.000012 Fish 0.000002～0.000069 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 24/24 C.S. 22/22	W.S. 24/24 C.S. 22/22	W.S. 0.0016～0.026 C.S. 0.0022～0.025	(W.S. 0.000007) (C.S. 0.000007)					
			2008	47/48	47/48	0.0000006～0.0000096	(0.0000004)	189/192	64/64	0.0000004～0.0028	(0.0000003)	Bivalves 31/31 Fish 58/85 Birds 0/10	Bivalves 7/7 Fish 14/17 Birds 0/2	Bivalves 0.000001～0.000018 Fish 0.000001～0.000051 Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.0020～0.034 C.S. 0.0024～0.035	(W.S. 0.00003) (C.S. 0.00003)					
			2009	35/49	35/49	0.0000004～0.0000086	(0.0000004)	191/192	64/64	0.0000002～0.0036	(0.0000001)	Bivalves 30/31 Fish 73/90 Birds 0/10	Bivalves 7/7 Fish 17/18 Birds 0/2	Bivalves 0.0000007～0.000013 Fish 0.0000007～0.00010 Birds －	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 34/34 C.S. 34/34	W.S. 34/34 C.S. 34/34	W.S. 0.0027～0.078 C.S. 0.0024～0.075	(W.S. 0.00002) (C.S. 0.00002)					
			2010	47/49	47/49	0.0000002～0.0000071	(0.0000002)	64/64	64/64	0.0000003～0.0015	(0.0000003)	Bivalves 3/6 Fish 11/18 Birds 1/2	Bivalves 3/6 Fish 11/18 Birds 1/2	Bivalves 0.0000033～0.000016 Fish 0.0000010～0.000055 Birds 0.0000011	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 35/35 C.S. 35/35	W.S. 35/35 C.S. 35/35	W.S. 0.0017～0.072 C.S. 0.0013～0.045	(W.S. 0.0002) (C.S. 0.0002)					
			2011	41/49	41/49	0.0000001～0.000027	(0.0000001)	62/64	62/64	0.0000004～0.0024	(0.0000001)	Bivalves 4/4 Fish 17/18 Birds 0/1	Bivalves 4/4 Fish 17/18 Birds 0/1	Bivalves 0.0000007～0.000012 Fish 0.0000006～0.000064 Birds －	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.0016～0.058 C.S. 0.0015～0.044	(W.S. 0.0012) (C.S. 0.0012)					
			2012	20/48	20/48	0.0000008～0.000017	(0.0000008)	52/63	52/63	0.000002～0.0013	(0.000002)	Bivalves 4/5 Fish 14/19 Birds 0/2	Bivalves 4/5 Fish 14/19 Birds 0/2	Bivalves 0.0000007～0.0000084 Fish 0.0000006～0.000037 Birds －	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 35/35 C.S. 35/35	W.S. 35/35 C.S. 35/35	W.S. 0.0007～0.040 C.S. 0.0012～0.022	(W.S. 0.00025) (C.S. 0.00025)					
			2013	17/48	17/48	0.0000004～0.000012	(0.0000004)	61/62	61/62	0.0000004～0.0019	(0.0000002)	Bivalves 2/5 Fish 10/19 Birds 0/2	Bivalves 2/5 Fish 10/19 Birds 0/2	Bivalves 0.0000092～0.000011 Fish 0.0000019～0.0001 Birds －	(Bivalves 0.0000018) (Fish 0.0000018) (Birds 0.0000018)	W.S. 35/35 C.S. 35/35	W.S. 35/35 C.S. 35/35	W.S. 0.0006～0.32 C.S. 0.0014～0.03	(W.S. 0.0003) (C.S. 0.0003)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2014	32/48	32/48	0.0000002～0.000089	(0.0000002)	60/63	60/63	0.0000006～0.0017	(0.0000005)	Bivalves 1/3 Fish 12/19 Birds 1/2	Bivalves 1/3 Fish 12/19 Birds 1/2	Bivalves 0.000016 Fish 0.0000013～0.000065 Birds 0.000001	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	36/36	36/36	0.0014～0.043	(0.00003)					
			2015	8/48	8/48	0.0000012～0.000030	(0.0000012)	57/62	57/62	0.0000009～0.0024	(0.0000007)	Bivalves 2/3 Fish 11/19 Birds 0/1	Bivalves 2/3 Fish 11/19 Birds 0/1	Bivalves 0.0000009～0.0000041 Fish 0.0000010～0.000040 Birds －	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	35/35	35/35	0.0014～0.024	(0.00003)					
			2016	26/48	26/48	0.0000002～0.000070	(0.0000002)	59/62	59/62	0.0000003～0.0016	(0.0000002)	Bivalves 1/3 Fish 10/19 Birds 0/2	Bivalves 1/3 Fish 10/19 Birds 0/2	Bivalves 0.0000051 Fish 0.0000012～0.000025 Birds －	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	37/37	37/37	0.0015～0.038	(0.0002)					
			2017	11/47	11/47	0.0000003～0.000020	(0.0000003)	62/62	62/62	0.0000004～0.0016	(0.0000002)	Bivalves 3/3 Fish 17/19 Birds 1/2	Bivalves 3/3 Fish 17/19 Birds 1/2	Bivalves 0.000001～0.000013 Fish 0.000001～0.000043 Birds 0.000001	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.0012～0.037	(0.00007)					
			2018	38/47	38/47	0.0000003～0.00048	(0.0000003)	51/61	51/61	0.000002～0.0020	(0.000002)	Bivalves 3/3 Fish 17/18 Birds 0/2	Bivalves 3/3 Fish 17/18 Birds 0/2	Bivalves 0.000001～0.000005 Fish 0.000001～0.000053 Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.0014～0.049	(0.00003)					
			2019	47/48	47/48	0.0000001～0.000062	(0.0000001)	56/61	56/61	0.0000004～0.0018	(0.0000004)	Bivalves 2/3 Fish 13/16 Birds 1/1	Bivalves 2/3 Fish 13/16 Birds 1/1	Bivalves 0.000001～0.000007 Fish 0.000001～0.000021 Birds 0.000001	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.0013～0.032	(0.00002)					
			2020	43/46	43/46	0.0000001～0.000039	(0.0000001)	57/58	57/58	0.0000001～0.00095	(0.0000001)	Bivalves 1/3 Fish 12/18 Birds 0/1	Bivalves 1/3 Fish 12/18 Birds 0/1	Bivalves 0.0000088 Fish 0.0000011～0.000012 Birds －	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	37/37	37/37	0.0014～0.031	(0.00002)					
			2021	19/47	19/47	0.0000004～0.000018	(0.0000004)	57/60	57/60	0.0000002～0.0013	(0.0000001)	Bivalves 2/3 Fish 14/18 Birds 0/2	Bivalves 2/3 Fish 14/18 Birds 0/2	Bivalves 0.0000009～0.000016 Fish 0.0000010～0.000014 Birds －	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	35/35	35/35	0.0014～0.023	(0.00003)					
			2022	30/48	30/48	0.0000003～0.00013	(0.0000003)	61/61	61/61	0.0000002～0.0024	(0.0000001)	Bivalves 1/3 Fish 16/18 Birds 0/2	Bivalves 1/3 Fish 16/18 Birds 0/2	Bivalves 0.000020 Fish 0.0000003～0.000011 Birds －	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	36/36	36/36	0.00087～0.038	(0.00002)					
			2023	28/47	28/47	0.0000003～0.00015	(0.0000003)	54/60	54/60	0.0000003～0.00083	(0.0000002)	Bivalves 2/2 Fish 15/18 Birds 0/2	Bivalves 2/2 Fish 15/18 Birds 0/2	Bivalves 0.0000004～0.0000006 Fish 0.0000003～0.000022 Birds －	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	35/35	35/35	0.00059～0.017	(0.00002)					
			2024	21/47	21/47	0.0000005～0.000021	(0.0000005)	50/60	50/60	0.0000013～0.00099	(0.0000009)	Bivalves 1/3 Fish 9/16 Birds 1/2	Bivalves 1/3 Fish 9/16 Birds 1/2	Bivalves 0.0000004 Fish 0.0000006～0.000034 Birds 0.0000035	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	33/35	33/35	0.0011～0.016	(0.00009)					
852-2	Dichlorobiphenyls	25512-42-9	2000	28/28	28/28	0.000011～0.00093	(0.00000004)	36/36	36/36	0.0000016～0.022	(0.00000007)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.0000041～0.0033	(Bivalves & Fish 0.00000002)	17/17	17/17	0.0092～0.16	(0.0000004)					852-2
			2001	28/29	28/29	0.00000096～0.00064	(0.00000004～0.000030)	39/39	39/39	0.0000018～0.027	(0.00000004～0.000010)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.000012～0.0017	(Bivalves & Fish 0.00000002～0.0000004)	15/15	15/15	0.016～0.23	(0.0000004～0.005)					
			2002	114/114	38/38	0.0000064～0.00041	(0.00000020)	189/189	63/63	0.0000045～0.035	(0.0000003)	Bivalves 38/38 Fish 67/70 Birds 9/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.0000045～0.00084 Fish 0.0000022～0.0031 Birds 0.0000015～0.000013	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	102/102	34/34	0.0048～0.12	(0.001)					
			2003	36/36	36/36	0.000035～0.00013	(0.0000002)	186/186	62/62	0.0000049～0.19	(0.0000002)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.000028～0.00051 Fish 0.0000060～0.00070 Birds 0.0000058～0.0000093	(Bivalves 0.0000025) (Fish 0.0000025) (Birds 0.0000025)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.0079～0.14 C.S. 0.0032～0.063	(W.S. 0.00033) (C.S. 0.00033)					
			2004	38/38	38/38	0.000027～0.00018	(0.0000003)	189/189	63/63	0.0000052～0.051	(0.0000003)	Bivalves 31/31 Fish 70/70 Birds 6/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.000029～0.00069 Fish 0.0000063～0.0011 Birds 0.0000065～0.0000079	(Bivalves 0.0000061) (Fish 0.0000061) (Birds 0.0000061)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0064～0.23 C.S. 0.0039～0.40	(W.S. 0.00033) (C.S. 0.00033)					
			2005	47/47	47/47	0.000014～0.00065	(0.00000024)	189/189	63/63	0.0000053～0.027	(0.00000034)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000020～0.00097 Fish 0.0000072～0.0030 Birds 0.0000058～0.0000090	(Bivalves 0.0000049) (Fish 0.0000049) (Birds 0.0000049)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0049～0.15 C.S. 0.0035～0.12	(W.S. 0.000014) (C.S. 0.000014)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2006	45/48	45/48	0.0000003～0.00057	(0.0000003)	192/192	64/64	0.0000068～0.025	(0.0000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000019～0.00076 Fish 0.000007～0.0029 Birds 0.000006～0.000020	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0032～0.31 C.S. 0.0031～0.059	(W.S. 0.00004) (C.S. 0.00004)					
			2007	44/48	44/48	0.0000024～0.00029	(0.0000002)	192/192	64/64	0.0000031～0.026	(0.00000008)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000021～0.00046 Fish 0.000005～0.0024 Birds 0.000003～0.000006	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 24/24 C.S. 22/22	W.S. 24/24 C.S. 22/22	W.S. 0.014～0.14 C.S. 0.0079～0.051	(W.S. 0.00002) (C.S. 0.00002)					
			2008	48/48	48/48	0.0000011～0.00018	(0.0000006)	192/192	64/64	0.0000027～0.031	(0.0000002)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000032～0.00071 Fish 0.000006～0.0013 Birds 0.000005～0.000010	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.020～0.15 C.S. 0.0064～0.24	(W.S. 0.0001) (C.S. 0.0001)					
			2009	48/48	48/48	0.0000031～0.00014	(0.0000005)	190/192	64/64	0.000003～0.071	(0.0000002)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000025～0.0014 Fish 0.000005～0.0025 Birds 0.000003～0.000005	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 34/34 C.S. 34/34	W.S. 34/34 C.S. 34/34	W.S. 0.012～0.20 C.S. 0.0057～0.083	(W.S. 0.0001) (C.S. 0.0001)					
			2010	22/49	22/49	0.000005～0.00017	(0.000005)	59/64	59/64	0.000005～0.017	(0.000005)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000024～0.0003 Fish 0.000005～0.0021 Birds 0.000007～0.000016	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 35/35	W.S. 35/35 C.S. 35/35	W.S. 0.012～0.12 C.S. 0.0055～0.17	(W.S. 0.0009) (C.S. 0.0009)					
			2011	49/49	49/49	0.0000033～0.00028	(0.0000003)	64/64	64/64	0.000001～0.034	(0.000001)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000012～0.00063 Fish 0.000007～0.0020 Birds 0.000007	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.015～0.083 C.S. 0.0053～0.066	(W.S. 0.0020) (C.S. 0.0020)					
			2012	48/48	48/48	0.000014～0.00024	(0.0000006)	62/63	62/63	0.000005～0.023	(0.000004)	Bivalves 5/5 Fish 19/19 Birds 1/2	Bivalves 5/5 Fish 19/19 Birds 1/2	Bivalves 0.000011～0.00033 Fish 0.000005～0.0011 Birds 0.000006	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 35/35 C.S. 35/35	W.S. 35/35 C.S. 35/35	W.S. 0.010～0.11 C.S. 0.0049～0.064	(W.S. 0.0041) (C.S. 0.0041)					
			2013	43/48	43/48	0.000003～0.00024	(0.000003)	61/62	61/62	0.000003～0.019	(0.000003)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000021～0.00034 Fish 0.000006～0.0027 Birds 0.000004～0.000005	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 35/35 C.S. 35/35	W.S. 35/35 C.S. 35/35	W.S. 0.0087～0.24 C.S. 0.0054～0.063	(W.S. 0.0029) (C.S. 0.0029)					
			2014	46/48	46/48	0.0000026～0.00019	(0.0000012)	57/63	57/63	0.000006～0.023	(0.000006)	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 0.000009～0.00014 Fish 0.000004～0.0023 Birds 0.000005～0.000025	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	36/36	36/36	0.0082～0.13	(0.0006)					
			2015	48/48	48/48	0.0000037～0.00025	(0.0000025)	60/62	60/62	0.000004～0.035	(0.000003)	Bivalves 3/3 Fish 17/19 Birds 1/1	Bivalves 3/3 Fish 17/19 Birds 1/1	Bivalves 0.000013～0.000070 Fish 0.0000044～0.0015 Birds 0.0000086	(Bivalves 0.0000041) (Fish 0.0000041) (Birds 0.0000041)	35/35	35/35	0.0062～0.15	(0.0002)					
			2016	48/48	48/48	0.0000022～0.00034	(0.0000005)	59/62	59/62	0.000006～0.030	(0.000006)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000010～0.000085 Fish 0.000004～0.00085 Birds 0.000005～0.000006	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	37/37	37/37	0.0038～0.26	(0.0003)					
			2017	47/47	47/47	0.0000023～0.00029	(0.0000011)	62/62	62/62	0.0000017～0.026	(0.0000008)	Bivalves 3/3 Fish 17/19 Birds 2/2	Bivalves 3/3 Fish 17/19 Birds 2/2	Bivalves 0.000010～0.00016 Fish 0.000004～0.0010 Birds 0.000008～0.000009	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	37/37	37/37	0.0087～0.25	(0.0005)					
			2018	47/47	47/47	0.000003～0.00045	(0.000001)	59/61	59/61	0.000002～0.029	(0.000002)	Bivalves 3/3 Fish 18/18 Birds 1/2	Bivalves 3/3 Fish 18/18 Birds 1/2	Bivalves 0.000016～0.000085 Fish 0.000005～0.0022 Birds 0.000005	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	37/37	37/37	0.0071～0.22	(0.0003)					
			2019	48/48	48/48	0.000003～0.00073	(0.000001)	61/61	61/61	0.0000023～0.026	(0.0000002)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000007～0.000078 Fish 0.000003～0.0013 Birds 0.000005	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	36/36	36/36	0.0073～0.073	(0.0002)					
			2020	46/46	46/46	0.0000012～0.0011	(0.0000007)	58/58	58/58	0.0000010～0.014	(0.0000002)	Bivalves 3/3 Fish 17/18 Birds 1/1	Bivalves 3/3 Fish 17/18 Birds 1/1	Bivalves 0.000007～0.00013 Fish 0.000007～0.00051 Birds 0.000006	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0082～0.059	(0.0001)					
			2021	47/47	47/47	0.0000010～0.00053	(0.0000006)	58/60	58/60	0.0000025～0.015	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 1/2	Bivalves 3/3 Fish 18/18 Birds 1/2	Bivalves 0.000012～0.00017 Fish 0.000003～0.00050 Birds 0.000004	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	35/35	35/35	0.0053～0.067	(0.0001)					
			2022	48/48	48/48	0.0000009～0.00015	(0.0000006)	61/61	61/61	0.0000005～0.010	(0.0000004)	Bivalves 3/3 Fish 18/18 Birds 1/2	Bivalves 3/3 Fish 18/18 Birds 1/2	Bivalves 0.000003～0.00013 Fish 0.000002～0.00029 Birds 0.000002	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	36/36	36/36	0.0056～0.052	(0.00005)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2023	47/47	47/47	0.0000009～0.00098	(0.0000006)	60/60	60/60	0.0000010～0.0090	(0.0000004)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.000004～0.000024 Fish 0.000002～0.00040 Birds 0.000004	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	35/35	35/35	0.0086～0.057	(0.0001)					
			2024	47/47	47/47	0.0000018～0.0016	(0.000001)	60/60	60/60	0.000001～0.017	(0.000001)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.0000026～0.000067 Fish 0.0000027～0.00034 Birds 0.0000033～0.000046	(Bivalves 0.0000022) (Fish 0.0000022) (Birds 0.0000022)	35/35	35/35	0.0073～0.047	(0.0002)					
852-3	Trichlorobiphenyls	25323-68-6	2000	28/28	28/28	0.000026～0.0038	(0.00000003)	36/36	36/36	0.0000084～0.15	(0.00000006)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.00011～0.044	(Bivalves & Fish 0.00000002)	17/17	17/17	0.022～0.59	(0.00001)					852-3
			2001	28/29	28/29	0.00000077～0.0015	(0.00000003～0.000020)	39/39	39/39	0.00000011～0.079	(0.00000009～0.000007)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.000092～0.028	(Bivalves & Fish 0.00000002～0.0000005)	15/15	15/15	0.023～0.62	(0.00001～0.002)					
			2002	114/114	38/38	0.0000061～0.0026	(0.0000003)	189/189	63/63	0.000010～0.18	(0.0000003)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000015～0.016 Fish 0.000012～0.049 Birds 0.0000037～0.00044	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	102/102	34/34	0.0055～0.48	(0.0005)					
			2003	36/36	36/36	0.000047～0.00057	(0.0000002)	186/186	62/62	0.0000051～1.4	(0.0000002)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.000048～0.0091 Fish 0.000015～0.019 Birds 0.000007～0.00049	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.013～0.43 C.S. 0.0056～0.23	(W.S. 0.0011) (C.S. 0.0011)					
			2004	38/38	38/38	0.000025～0.00099	(0.0000003)	189/189	63/63	0.0000059～0.19	(0.0000002)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.000083～0.010 Fish 0.000018～0.038 Birds 0.0000070～0.00025	(Bivalves 0.0000038) (Fish 0.0000038) (Birds 0.0000038)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0079～0.90 C.S. 0.0064～0.90	(W.S. 0.00023) (C.S. 0.00023)					
			2005	47/47	47/47	0.000029～0.0023	(0.00000024)	189/189	63/63	0.0000064～0.22	(0.00000024)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000036～0.0086 Fish 0.000025～0.044 Birds 0.0000092～0.00029	(Bivalves 0.0000037) (Fish 0.0000037) (Birds 0.0000037)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0063～0.55 C.S. 0.0044～0.19	(W.S. 0.000014) (C.S. 0.000014)					
			2006	47/48	47/48	0.0000009～0.0014	(0.0000003)	192/192	64/64	0.0000083～0.16	(0.0000001)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000032～0.0060 Fish 0.000023～0.040 Birds 0.000010～0.00031	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0090～0.68 C.S. 0.0040～0.28	(W.S. 0.00005) (C.S. 0.00005)					
			2007	44/48	44/48	0.0000030～0.00084	(0.0000003)	191/192	64/64	0.0000028～0.18	(0.00000008)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000041～0.0051 Fish 0.000024～0.055 Birds 0.000005～0.00023	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 24/24 C.S. 22/22	W.S. 24/24 C.S. 22/22	W.S. 0.013～0.34 C.S. 0.0060～0.080	(W.S. 0.00001) (C.S. 0.00001)					
			2008	48/48	48/48	0.0000017～0.0012	(0.0000005)	192/192	64/64	0.0000014～0.12	(0.0000001)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000038～0.0079 Fish 0.000017～0.019 Birds 0.000007～0.00036	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 24/24 C.S. 36/36	W.S. 24/24 C.S. 36/36	W.S. 0.012～0.22 C.S. 0.0048～0.94	(W.S. 0.00006) (C.S. 0.00006)					
			2009	43/48	43/48	0.000002～0.0013	(0.000002)	191/192	64/64	0.0000034～0.52	(0.0000004)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000034～0.015 Fish 0.000015～0.039 Birds 0.000004～0.00013	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0090～0.48 C.S. 0.0062～0.19	(W.S. 0.00004) (C.S. 0.00004)					
			2010	25/49	25/49	0.000008～0.00081	(0.000008)	60/64	60/64	0.000011～0.084	(0.00001)	Bivalves 6/6 Fish 18/18 Birds 1/2	Bivalves 6/6 Fish 18/18 Birds 1/2	Bivalves 0.000038～0.0034 Fish 0.000021～0.031 Birds 0.00018	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0079～0.37 C.S. 0.0055～0.23	(W.S. 0.0007) (C.S. 0.0007)					
			2011	49/49	49/49	0.0000036～0.00058	(0.0000001)	64/64	64/64	0.0000054～0.25	(0.0000005)	Bivalves 4/4 Fish 18/18 Birds 0/1	Bivalves 4/4 Fish 18/18 Birds 0/1	Bivalves 0.000024～0.0050 Fish 0.000019～0.035 Birds －	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.0065～0.22 C.S. 0.0044～0.087	(W.S. 0.0029) (C.S. 0.0029)					
			2012	48/48	48/48	0.000017～0.0015	(0.0000027)	62/63	62/63	0.0000075～0.11	(0.0000050)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000020～0.0035 Fish 0.000016～0.011 Birds 0.000005～0.00018	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0051～0.24 C.S. 0.0038～0.12	(W.S. 0.0026) (C.S. 0.0026)					
			2013	48/48	48/48	0.000002～0.00051	(0.000002)	62/62	62/62	0.000004～0.083	(0.000003)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000032～0.0040 Fish 0.000021～0.041 Birds 0.0028～0.0054	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0059～0.30 C.S. 0.0029～0.13	(W.S. 0.0029) (C.S. 0.0029)					
			2014	48/48	48/48	0.0000021～0.00099	(0.0000004)	61/63	61/63	0.000009～0.10	(0.000007)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000021～0.0012 Fish 0.000010～0.034 Birds 0.00027～0.0018	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	36/36	36/36	0.006～0.3	(0.0003)					
			2015	48/48	48/48	0.0000042～0.0011	(0.0000012)	61/62	61/62	0.000003～0.19	(0.000002)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.000026～0.00067 Fish 0.000016～0.023 Birds 0.00013	(Bivalves 0.0000022) (Fish 0.0000022) (Birds 0.0000022)	35/35	35/35	0.0031～0.41	(0.0004)					
			2016	48/48	48/48	0.0000010～0.00098	(0.0000004)	61/62	61/62	0.000005～0.17	(0.000004)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000019～0.00099 Fish 0.000011～0.016 Birds 0.00011～0.0028	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	37/37	37/37	0.0044～0.54	(0.0006)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2017	47/47	47/47	0.0000006～0.00095	(0.0000005)	61/62	61/62	0.0000054～0.16	(0.0000009)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000024～0.0015 Fish 0.000007～0.017 Birds 0.000054～0.0035	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	37/37	37/37	0.0059～1.5	(0.0006)					
			2018	47/47	47/47	0.000001～0.00090	(0.000001)	61/61	61/61	0.000004～0.23	(0.000004)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000042～0.00095 Fish 0.000009～0.041 Birds 0.0021～0.0024	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	37/37	37/37	0.0045～0.31	(0.0001)					
			2019	37/48	37/48	0.000002～0.0011	(0.000002)	61/61	61/61	0.0000048～0.18	(0.0000003)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000014～0.00092 Fish 0.000017～0.023 Birds 0.00091	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.0065～0.072	(0.0001)					
			2020	37/46	37/46	0.000001～0.0022	(0.000001)	58/58	58/58	0.0000045～0.090	(0.0000003)	Bivalves 3/3 Fish 17/18 Birds 1/1	Bivalves 3/3 Fish 17/18 Birds 1/1	Bivalves 0.000039～0.00089 Fish 0.000037～0.0088 Birds 0.0023	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.0045～0.064	(0.0001)					
			2021	46/47	46/47	0.0000005～0.0017	(0.0000004)	60/60	60/60	0.0000020～0.098	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000025～0.0011 Fish 0.000010～0.0095 Birds 0.0013～0.0035	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	35/35	35/35	0.0043～0.082	(0.0001)					
			2022	46/48	46/48	0.0000010～0.00098	(0.0000008)	61/61	61/61	0.0000010～0.086	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000094～0.0010 Fish 0.0000031～0.0056 Birds 0.0027～0.0099	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	36/36	36/36	0.0051～0.057	(0.00004)					
			2023	47/47	47/47	0.0000012～0.0012	(0.0000004)	60/60	60/60	0.0000011～0.056	(0.0000003)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.000013～0.000076 Fish 0.000015～0.0084 Birds 0.0020～0.0071	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	35/35	35/35	0.0061～0.085	(0.0001)					
			2024	47/47	47/47	0.0000006～0.0027	(0.0000005)	59/60	59/60	0.0000010～0.13	(0.0000008)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.0000059～0.00085 Fish 0.000024～0.0063 Birds 0.00049～0.028	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	29/35	29/35	0.0029～0.048	(0.00006)					
852-4	Tetrachlorobiphenyls	26914-33-0	2000	28/28	28/28	0.000019～0.0027	(0.00000008)	36/36	36/36	0.0000089～0.26	(0.0000002)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.00049～0.095	(Bivalves & Fish 0.00000004)	17/17	17/17	0.018～0.45	(0.0000008)					852-4
			2001	28/29	28/29	0.0000009～0.0011	(0.00000008～0.000006)	39/39	39/39	0.0000006～0.16	(0.00000008～0.000005)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.00037～0.14	(Bivalves & Fish 0.00000004～0.0000005)	15/15	15/15	0.014～0.29	(0.0000008～0.0008)					
			2002	114/114	38/38	0.000011～0.0048	(0.0000003)	189/189	63/63	0.000008～0.24	(0.0000004)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000031～0.082 Fish 0.00011～0.21 Birds 0.00011～0.0022	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	102/102	34/34	0.0030～0.18	(0.0009)					
			2003	36/36	36/36	0.000056～0.0014	(0.00000009)	186/186	62/62	0.0000074～2.2	(0.0000002)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.00015～0.055 Fish 0.000067～0.053 Birds 0.00010～0.0029	(Bivalves 0.0000023) (Fish 0.0000023) (Birds 0.0000023)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.0049～0.67 C.S. 0.0035～0.15	(W.S. 0.00058) (C.S. 0.00058)					
			2004	38/38	38/38	0.000039～0.0016	(0.0000002)	189/189	63/63	0.0000071～0.46	(0.00000009)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.00026～0.049 Fish 0.000082～0.14 Birds 0.000090～0.0013	(Bivalves 0.0000027) (Fish 0.0000027) (Birds 0.0000027)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0052～0.75 C.S. 0.0034～0.25	(W.S. 0.00014) (C.S. 0.00014)					
			2005	47/47	47/47	0.000033～0.0038	(0.00000014)	189/189	63/63	0.0000073～0.32	(0.00000014)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000097～0.036 Fish 0.00011～0.13 Birds 0.000085～0.0017	(Bivalves 0.0000022) (Fish 0.0000022) (Birds 0.0000022)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0036～0.55 C.S. 0.0040～0.051	(W.S. 0.000014) (C.S. 0.000014)					
			2006	47/48	47/48	0.0000016～0.0019	(0.0000003)	192/192	64/64	0.0000063～0.24	(0.00000008)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000088～0.031 Fish 0.00012～0.086 Birds 0.000081～0.0019	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0026～0.39 C.S. 0.0026～0.094	(W.S. 0.00002) (C.S. 0.00002)					
			2007	48/48	48/48	0.0000030～0.0013	(0.0000002)	192/192	64/64	0.0000014～0.24	(0.00000009)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000041～0.0051 Fish 0.000024～0.055 Birds 0.000005～0.00023	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 23/23 C.S. 22/22	W.S. 23/23 C.S. 22/22	W.S. 0.0048～0.25 C.S. 0.0027～0.045	(W.S. 0.00001) (C.S. 0.00001)					
			2008	48/48	48/48	0.0000057～0.0017	(0.0000002)	192/192	64/64	0.0000059～0.24	(0.0000001)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.00014～0.029 Fish 0.000067～0.097 Birds 0.000043～0.0033	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0074～0.61 C.S. 0.0025～0.23	(W.S. 0.00002) (C.S. 0.00002)					
			2009	48/48	48/48	0.0000042～0.0015	(0.0000002)	191/192	64/64	0.0000061～0.52	(0.0000002)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.00011～0.025 Fish 0.000062～0.10 Birds 0.000046～0.00075	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0036～0.25 C.S. 0.0026～0.071	(W.S. 0.00002) (C.S. 0.00002)					
			2010	40/49	40/49	0.000009～0.0011	(0.000007)	59/64	59/64	0.00003～0.16	(0.00003)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.00016～0.018 Fish 0.00013～0.084 Birds 0.000087～0.00086	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0040～0.18 C.S. 0.0028～0.11	(W.S. 0.0003) (C.S. 0.0003)					
			2011	49/49	49/49	0.0000035～0.0010	(0.0000001)	64/64	64/64	0.0000049～0.33	(0.0000003)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000075～0.024 Fish 0.000080～0.081 Birds 0.000099	(Bivalves 0.000022) (Fish 0.000022) (Birds 0.000022)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.0035～0.12 C.S. 0.0020～0.057	(W.S. 0.0011) (C.S. 0.0011)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2012	48/48	48/48	0.000021～0.0032	(0.0000083)	63/63	63/63	0.0000073～0.22	(0.0000016)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000056～0.012 Fish 0.00018～0.035 Birds 0.000069～0.00067	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0025～0.15 C.S. 0.0020～0.053	(W.S. 0.00088) (C.S. 0.00088)					
			2013	48/48	48/48	0.0000020～0.0012	(0.0000003)	62/62	62/62	0.000008～0.15	(0.000002)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.00010～0.017 Fish 0.00012～0.093 Birds 0.025～0.026	(Bivalves 0.0000019) (Fish 0.0000019) (Birds 0.0000019)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0033～0.17 C.S. 0.0023～0.057	(W.S. 0.0003) (C.S. 0.0003)					
			2014	48/48	48/48	0.0000037～0.0024	(0.0000003)	63/63	63/63	0.000009～0.14	(0.000004)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000074～0.0044 Fish 0.000051～0.073 Birds 0.0015～0.0081	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	36/36	36/36	0.0054～0.24	(0.0001)					
			2015	48/48	48/48	0.0000091～0.0021	(0.0000005)	62/62	62/62	0.000002～0.35	(0.000002)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.000088～0.0027 Fish 0.000074～0.055 Birds 0.00042	(Bivalves 0.0000022) (Fish 0.0000022) (Birds 0.0000022)	35/35	35/35	0.0027～0.26	(0.0007)					
			2016	48/48	48/48	0.0000008～0.0017	(0.0000001)	62/62	62/62	0.000004～0.25	(0.000003)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000053～0.0036 Fish 0.000069～0.044 Birds 0.00053～0.012	(Bivalves 0.0000041) (Fish 0.0000041) (Birds 0.0000041)	37/37	37/37	0.0028～0.31	(0.0009)					
			2017	46/47	46/47	0.0000008～0.00091	(0.0000005)	61/62	61/62	0.0000058～0.20	(0.0000008)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000071～0.0055 Fish 0.000039～0.041 Birds 0.00025～0.027	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	37/37	37/37	0.0029～1.3	(0.0007)					
			2018	47/47	47/47	0.000002～0.0011	(0.0000005)	61/61	61/61	0.000009～0.23	(0.000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.00010～0.0030 Fish 0.000075～0.086 Birds 0.0089～0.0090	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	37/37	37/37	0.0023～0.23	(0.0001)					
			2019	48/48	48/48	0.0000022～0.0014	(0.0000002)	61/61	61/61	0.0000087～0.20	(0.0000002)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000044～0.0041 Fish 0.000096～0.050 Birds 0.0052	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.0036～0.046	(0.0002)					
			2020	46/46	46/46	0.0000022～0.0040	(0.0000003)	58/58	58/58	0.0000056～0.14	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.000070～0.0026 Fish 0.000042～0.021 Birds 0.0093	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.0029～0.090	(0.0001)					
			2021	47/47	47/47	0.0000011～0.0032	(0.0000003)	60/60	60/60	0.0000076～0.15	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000061～0.0023 Fish 0.000037～0.028 Birds 0.0055～0.015	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	35/35	35/35	0.0021～0.084	(0.0003)					
			2022	47/48	47/48	0.000001～0.0018	(0.000001)	61/61	61/61	0.0000046～0.12	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000028～0.0033 Fish 0.000027～0.026 Birds 0.015～0.030	(Bivalves 0.0000002) (Fish 0.0000002) (Birds 0.0000002)	36/36	36/36	0.0029～0.040	(0.00003)					
			2023	47/47	47/47	0.0000016～0.0020	(0.0000003)	60/60	60/60	0.0000024～0.12	(0.0000002)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.000036～0.00019 Fish 0.000065～0.029 Birds 0.0072～0.029	(Bivalves 0.0000002) (Fish 0.0000002) (Birds 0.0000002)	35/35	35/35	0.0037～0.047	(0.0002)					
			2024	46/47	46/47	0.0000012～0.0050	(0.0000005)	60/60	60/60	0.0000023～0.18	(0.0000006)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.000020～0.0020 Fish 0.00012～0.024 Birds 0.0022～0.099	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	29/35	29/35	0.00054～0.045	(0.00009)					
852-4-1	3,3',4,4'-Tetrachlorobiphenyl (PCB#77)	32598-13-3	1990					2/3	2/3	0.0027～0.0037	(0.000001)	Fish 3/3	Fish 3/3	Fish 0.000019～0.00090	(Fish 0.000001)									852-4-1
			1991					2/3	2/3	0.00049～0.0069	(0.000001)	Fish 3/3	Fish 3/3	Fish 0.000009～0.00039	(Fish 0.000001)									
			1992					3/3	3/3	0.000002～0.0066	(0.000001)	Fish 3/3	Fish 3/3	Fish 0.000027～0.00048	(Fish 0.000001)									
			1993					2/3	2/3	0.00023～0.0072	(0.000001)	Fish 3/3	Fish 3/3	Fish 0.000029～0.0013	(Fish 0.000001)									
			1994					2/3	2/3	0.0067～0.013	(0.000001)	Fish 3/3	Fish 3/3	Fish 0.000015～0.0013	(Fish 0.000001)									
			1995					2/3	2/3	0.00018～0.0052	(0.000001)	Fish 3/3	Fish 3/3	Fish 0.000023～0.00087	(Fish 0.000001)									
			1996					35/36	35/36	0.000001～0.0067	(0.000001)	Fish 35/35	Fish 35/35	Fish 0.000003～0.00048	(Fish 0.000001)									
			1997					37/40	37/40	0.000001～0.0040	(0.000001)	Bivalves & Fish 39/39	Fish 39/39	Fish 0.000001～0.00055	(Fish 0.000001)									
			2000	28/28	28/28	0.00000040～0.000017	(0.0000004)	35/36	35/36	0.0000011～0.0059	(0.0000007)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.0000017～0.00068	(Bivalves & Fish 0.0000005)	16/16	16/16	0.00014～0.0057	(0.00001)					
			2001	27/29	27/29	0.0000007～0.000032	(0.0000006)	39/39	39/39	0.0000006～0.0036	(0.0000006)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.0000038～0.00045	(Bivalves & Fish 0.0000001)	15/15	15/15	0.00011～0.0023	(0.00001)					
			2003	36/36	36/36	0.0000006～0.000019	(0.0000003)	186/186	62/62	0.0000003～0.049	(0.0000003)	Bivalves 30/30 Fish 70/70 Birds 5/10	Bivalves 6/6 Fish 14/14 Birds 1/2	Bivalves 0.0000089～0.00039 Fish 0.0000012～0.00023 Birds 0.000011～0.000018	(Bivalves 0.00000069) (Fish 0.00000069) (Birds 0.00000069)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.000056～0.0038 C.S. 0.000019～0.00079	(W.S. 0.0000043) (C.S. 0.0000043)					
			2004	38/38	38/38	0.0000006～0.000033	(0.0000005)	182/189	61/63	0.0000004～0.010	(0.0000004)	Bivalves 31/31 Fish 68/70 Birds 5/10	Bivalves 7/7 Fish 14/14 Birds 1/2	Bivalves 0.0000053～0.00039 Fish 0.0000024～0.00050 Birds 0.000013～0.000016	(Bivalves 0.0000022) (Fish 0.0000022) (Birds 0.0000022)	W.S. 37/37 C.S. 36/37	W.S. 37/37 C.S. 36/37	W.S. 0.000026～0.0052 C.S. 0.000031～0.0014	(W.S. 0.000016) (C.S. 0.000016)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2005	47/47	47/47	0.0000004～0.000038	(0.0000004)	184/189	62/63	0.0000005～0.0068	(0.0000004)	Bivalves 31/31 Fish 76/80 Birds 5/10	Bivalves 7/7 Fish 16/16 Birds 1/2	Bivalves 0.0000034～0.00018 Fish 0.0000011～0.00043 Birds 0.0000089～0.000014	(Bivalves 0.0000011) (Fish 0.0000011) (Birds 0.0000011)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000016～0.0020 C.S. 0.000019～0.00031	(W.S. 0.0000014) (C.S. 0.0000014)					
			2006	38/48	38/48	0.0000003～0.000023	(0.0000003)	192/192	64/64	0.0000002～0.0065	(0.0000001)	Bivalves 31/31 Fish 80/80 Birds 6/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000043～0.00017 Fish 0.0000009～0.00033 Birds 0.0000040～0.000013	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000017～0.0023 C.S. 0.000017～0.00037	(W.S. 0.000006) (C.S. 0.000006)					
			2007	34/48	34/48	0.0000005～0.000023	(0.0000005)	188/192	64/64	0.0000003～0.0058	(0.0000003)	Bivalves 31/31 Fish 80/80 Birds 5/10	Bivalves 7/7 Fish 16/16 Birds 1/2	Bivalves 0.0000040～0.00014 Fish 0.0000009～0.00064 Birds 0.0000093～0.000016	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.000033～0.0020 C.S. 0.000018～0.00036	(W.S. 0.000006) (C.S. 0.000006)					
			2008	38/48	38/48	0.0000003～0.000036	(0.0000003)	192/192	64/64	0.0000003～0.0057	(0.0000001)	Bivalves 31/31 Fish 85/85 Birds 5/10	Bivalves 7/7 Fish 17/17 Birds 1/2	Bivalves 0.0000075～0.00016 Fish 0.0000011～0.00030 Birds 0.0000094～0.000016	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000034～0.0012 C.S. 0.000013～0.00045	(W.S. 0.000007) (C.S. 0.000007)					
			2009	45/49	45/49	0.0000002～0.000015	(0.0000002)	191/192	64/64	0.0000004～0.013	(0.0000002)	Bivalves 31/31 Fish 90/90 Birds 5/10	Bivalves 7/7 Fish 18/18 Birds 1/2	Bivalves 0.0000042～0.00016 Fish 0.0000011～0.00035 Birds 0.0000057～0.0000080	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000024～0.0015 C.S. 0.000013～0.00049	(W.S. 0.000007) (C.S. 0.000007)					
			2010	47/49	47/49	0.0000001～0.0000083	(0.0000001)	62/64	62/64	0.0000004～0.0035	(0.0000004)	Bivalves 6/6 Fish 17/18 Birds 1/2	Bivalves 6/6 Fish 17/18 Birds 1/2	Bivalves 0.000007～0.00012 Fish 0.000002～0.00042 Birds 0.000012	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000028～0.0014 C.S. 0.000014～0.00052	(W.S. 0.000009) (C.S. 0.000009)					
			2011	45/49	45/49	0.00000011～0.000013	(0.00000009)	63/64	63/64	0.0000003～0.0080	(0.0000002)	Bivalves 4/4 Fish 18/18 Birds 0/1	Bivalves 4/4 Fish 18/18 Birds 0/1	Bivalves 0.0000040～0.00014 Fish 0.0000010～0.00031 Birds －	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	W.S. 35/35 C.S. 36/37	W.S. 35/35 C.S. 36/37	W.S. 0.00002～0.00078 C.S. 0.00001～0.00040	(W.S. 0.00001) (C.S. 0.00001)					
			2012	31/48	31/48	0.0000004～0.000031	(0.0000003)	57/63	57/63	0.0000006～0.0040	(0.0000006)	Bivalves 5/5 Fish 18/19 Birds 1/2	Bivalves 5/5 Fish 18/19 Birds 1/2	Bivalves 0.0000030～0.000064 Fish 0.0000018～0.00012 Birds 0.000011	(Bivalves 0.0000010) (Fish 0.0000010) (Birds 0.0000010)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.000026～0.00099 C.S. 0.000009～0.00029	(W.S. 0.000008) (C.S. 0.000008)					
			2013	26/48	26/48	0.0000003～0.000014	(0.0000003)	61/62	61/62	0.0000004～0.0053	(0.0000001)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000043～0.000093 Fish 0.0000009～0.00034 Birds 0.0000053～0.000032	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 33/36 C.S. 30/36	W.S. 33/36 C.S. 30/36	W.S. 0.00003～0.0011 C.S. 0.00003～0.00019	(W.S. 0.00003) (C.S. 0.00003)					
			2014	43/48	43/48	0.00000014～0.000036	(0.00000014)	63/63	63/63	0.0000003～0.0055	(0.0000002)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000040～0.000029 Fish 0.0000008～0.00031 Birds 0.0000060～0.000051	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	36/36	36/36	0.000017～0.0019	(0.000009)					
			2015	35/48	35/48	0.0000002～0.000025	(0.0000001)	60/62	60/62	0.0000003～0.0064	(0.0000003)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.0000047～0.000017 Fish 0.0000008～0.00023 Birds 0.0000015	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	35/35	35/35	0.000012～0.00062	(0.000008)					
			2016	37/48	37/48	0.00000011～0.000014	(0.00000009)	60/62	60/62	0.0000003～0.0057	(0.0000002)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000025～0.000024 Fish 0.0000010～0.00016 Birds 0.0000024～0.000074	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	37/37	37/37	0.000013～0.0011	(0.000007)					
			2017	24/47	24/47	0.0000005～0.0000090	(0.0000004)	62/62	62/62	0.0000001～0.0046	(0.0000001)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.0000035～0.000040 Fish 0.0000009～0.00016 Birds 0.0000017～0.000095	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	37/37	37/37	0.00002～0.0013	(0.000008)					
			2018	29/47	29/47	0.0000003～0.0000091	(0.0000003)	60/61	60/61	0.0000004～0.0053	(0.0000001)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000023～0.000022 Fish 0.0000008～0.00034 Birds 0.000013～0.000053	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	37/37	37/37	0.000012～0.00045	(0.000009)					
			2019	29/48	29/48	0.0000002～0.000007	(0.0000002)	60/61	60/61	0.0000003～0.0032	(0.0000002)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.0000015～0.000029 Fish 0.0000012～0.00018 Birds 0.000012	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	36/36	36/36	0.00003～0.00039	(0.00002)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2020	26/46	26/46	0.0000003～0.000014	(0.0000003)	56/58	56/58	0.0000004～0.0025	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.0000019～0.000020 Fish 0.0000010～0.000083 Birds 0.000076	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	37/37	37/37	0.00003～0.00062	(0.00001)					
			2021	24/47	24/47	0.0000003～0.0000076	(0.0000003)	58/60	58/60	0.0000003～0.0030	(0.0000003)	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 3/3 Fish 17/18 Birds 2/2	Bivalves 0.0000023～0.000013 Fish 0.0000013～0.00011 Birds 0.0000079～0.000060	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	34/35	34/35	0.00002～0.00040	(0.00002)					
			2022	24/48	24/48	0.0000003～0.000019	(0.0000003)	58/61	58/61	0.0000005～0.0023	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000012～0.000018 Fish 0.0000004～0.00011 Birds 0.000030～0.000044	(Bivalves 0.0000002) (Fish 0.0000002) (Birds 0.0000002)	33/36	33/36	0.00002～0.00027	(0.00001)					
			2023	30/47	30/47	0.0000003～0.0000086	(0.0000003)	58/60	58/60	0.0000003～0.0027	(0.0000002)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.0000015～0.0000038 Fish 0.0000011～0.00012 Birds 0.0000053～0.000061	(Bivalves 0.0000002) (Fish 0.0000002) (Birds 0.0000002)	31/35	31/35	0.00003～0.0003	(0.00003)					
			2024	19/47	19/47	0.0000005～0.0000079	(0.0000005)	55/60	55/60	0.0000007～0.0032	(0.0000006)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.0000009～0.000010 Fish 0.0000007～0.00011 Birds 0.000015～0.000047	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	28/35	28/35	0.00002～0.00031	(0.00002)					
852-4-2	3,4,4',5-Tetrachlorobiphenyl (PCB#81)	70362-50-4	2000	2/28	2/28	0.00000040～0.00000050	(0.0000002)	28/36	28/36	0.0000009～0.00020	(0.0000004)	Bivalves & Fish 34/35	Bivalves & Fish 34/35	Bivalves & Fish 0.00000070～0.000039	(Bivalves & Fish 0.00000009)	15/16	15/16	0.000020～0.00053	(0.00001)					852-4-2
			2001	2/29	2/29	0.0000005～0.0000006	(0.0000004)	31/39	31/39	0.0000004～0.00010	(0.0000004)	Bivalves & Fish 26/36	Bivalves & Fish 26/36	Bivalves & Fish 0.00000030～0.000034	(Bivalves & Fish 0.0000002)	13/15	13/15	0.00002～0.00091	(0.00001)					
			2003	7/36	7/36	0.00000021～0.0000021	(0.0000002)	143/186	52/62	0.0000003～0.0020	(0.0000003)	Bivalves 14/30 Fish 20/70 Birds 4/10	Bivalves 3/6 Fish 4/14 Birds 1/2	Bivalves 0.0000016～0.000020 Fish 0.0000023～0.0000071 Birds 0.0000016～0.0000027	(Bivalves 0.0000015) (Fish 0.0000015) (Birds 0.0000015)	W.S. 35/35 C.S. 33/34	W.S. 35/35 C.S. 33/34	W.S. 0.0000072～0.00018 C.S. 0.0000058～0.000067	(W.S. 0.0000051) (C.S. 0.0000051)					
			2004	2/38	2/38	0.0000004～0.0000011	(0.0000004)	151/189	54/63	0.0000003～0.00029	(0.0000003)	Bivalves 12/31 Fish 16/70 Birds 2/10	Bivalves 4/7 Fish 4/14 Birds 1/2	Bivalves 0.0000016～0.000023 Fish 0.0000015～0.000025 Birds 0.0000014～0.0000019	(Bivalves 0.0000013) (Fish 0.0000013) (Birds 0.0000013)	W.S. 27/37 C.S. 21/37	W.S. 27/37 C.S. 21/37	W.S. 0.000018～0.00033 C.S. 0.000018～0.00022	(W.S. 0.000016) (C.S. 0.000016)					
			2005	7/47	7/47	0.0000003～0.0000005	(0.0000002)	149/189	54/63	0.0000002～0.00023	(0.0000002)	Bivalves 17/31 Fish 29/80 Birds 5/10	Bivalves 5/7 Fish 6/16 Birds 1/2	Bivalves 0.0000013～0.0000096 Fish 0.0000015～0.000022 Birds 0.0000014～0.0000021	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0000020～0.00014 C.S. 0.0000040～0.000050	(W.S. 0.0000020) (C.S. 0.0000020)					
			2006	2/48	2/48	0.00000004～0.0000005	(0.0000004)	164/192	57/64	0.00000009～0.00019	(0.00000008)	Bivalves 21/31 Fish 35/80 Birds 5/10	Bivalves 5/7 Fish 9/16 Birds 1/2	Bivalves 0.0000007～0.0000098 Fish 0.0000007～0.000018 Birds 0.0000010～0.0000022	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 36/37 C.S. 32/37	W.S. 36/37 C.S. 32/37	W.S. 0.000004～0.00019 C.S. 0.000004～0.000091	(W.S. 0.000004) (C.S. 0.000004)					
			2007	8/48	8/48	0.0000002～0.0000004	(0.0000002)	147/192	54/64	0.0000002～0.00017	(0.0000002)	Bivalves 20/31 Fish 31/80 Birds 5/10	Bivalves 5/7 Fish 8/16 Birds 1/2	Bivalves 0.0000007～0.0000081 Fish 0.0000007～0.000033 Birds 0.0000013～0.0000018	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 32/36 C.S. 25/36	W.S. 32/36 C.S. 25/36	W.S. 0.00002～0.00016 C.S. 0.00001～0.00008	(W.S. 0.00001) (C.S. 0.00001)					
			2008	10/48	10/48	0.0000002～0.0000005	(0.0000002)	151/192	56/64	0.0000002～0.00017	(0.0000002)	Bivalves 21/31 Fish 39/85 Birds 5/10	Bivalves 6/7 Fish 10/17 Birds 1/2	Bivalves 0.0000006～0.0000093 Fish 0.0000006～0.000013 Birds 0.0000014～0.0000041	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 35/37 C.S. 28/37	W.S. 35/37 C.S. 28/37	W.S. 0.000006～0.00018 C.S. 0.000005～0.000044	(W.S. 0.000005) (C.S. 0.000005)					
			2009	3/49	3/49	0.00000003～0.0000005	(0.0000003)	146/192	55/64	0.0000003～0.00053	(0.0000002)	Bivalves 18/31 Fish 40/90 Birds 5/10	Bivalves 5/7 Fish 10/18 Birds 1/2	Bivalves 0.0000007～0.000011 Fish 0.0000006～0.000022 Birds 0.0000008～0.0000010	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 31/37 C.S. 24/37	W.S. 31/37 C.S. 24/37	W.S. 0.000008～0.000088 C.S. 0.000007～0.000042	(W.S. 0.000007) (C.S. 0.000007)					
			2010	7/49	7/49	0.000000019～0.00000031	(0.00000009)	59/64	59/64	0.0000001～0.00010	(0.0000001)	Bivalves 1/6 Fish 7/18 Birds 0/2	Bivalves 1/6 Fish 7/18 Birds 0/2	Bivalves 0.000011～0.000011 Fish 0.000003～0.000029 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 30/37 C.S. 23/37	W.S. 30/37 C.S. 23/37	W.S. 0.000010～0.000076 C.S. 0.00001～0.000092	(W.S. 0.000009) (C.S. 0.000009)					
			2011	7/49	7/49	0.0000001～0.0000003	(0.0000001)	50/64	50/64	0.0000002～0.00029	(0.0000002)	Bivalves 3/4 Fish 9/18 Birds 0/1	Bivalves 3/4 Fish 9/18 Birds 0/1	Bivalves 0.0000007～0.0000087 Fish 0.0000006～0.000017 Birds －	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 27/35 C.S. 21/37	W.S. 27/35 C.S. 21/37	W.S. 0.00001～0.000050 C.S. 0.00001～0.000040	(W.S. 0.00001) (C.S. 0.00001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2012	0/48	0/48	–	(0.0000004)	43/63	43/63	0.0000005～0.000085	(0.0000004)	Bivalves 3/5 Fish 10/19 Birds 1/2	Bivalves 3/5 Fish 10/19 Birds 1/2	Bivalves 0.0000011～0.0000031 Fish 0.0000009～0.0000062 Birds 0.0000010	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 28/36 C.S. 16/36	W.S. 28/36 C.S. 16/36	W.S. 0.000009～0.000068 C.S. 0.000009～0.000027	(W.S. 0.000009) (C.S. 0.000009)					
			2013	10/48	10/48	0.0000001～0.0000006	(0.0000001)	55/62	55/62	0.00000011～0.00020	(0.00000008)	Bivalves 3/5 Fish 12/19 Birds 2/2	Bivalves 3/5 Fish 12/19 Birds 2/2	Bivalves 0.0000009～0.0000053 Fish 0.0000006～0.000019 Birds 0.000032～0.000055	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 28/36 C.S. 17/36	W.S. 28/36 C.S. 17/36	W.S. 0.000009～0.000082 C.S. 0.000008～0.000032	(W.S. 0.000008) (C.S. 0.000008)					
			2014	29/48	29/48	0.00000006～0.0000018	(0.00000006)	59/63	59/63	0.0000001～0.00024	(0.0000001)	Bivalves 2/3 Fish 11/19 Birds 1/2	Bivalves 2/3 Fish 11/19 Birds 1/2	Bivalves 0.0000007～0.0000015 Fish 0.0000006～0.000014 Birds 0.000026	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	29/36	29/36	0.000009～0.000096	(0.000009)					
			2015	2/48	2/48	0.0000003～0.0000008	(0.0000002)	38/62	38/62	0.0000004～0.00026	(0.0000004)	Bivalves 1/3 Fish 10/19 Birds 1/1	Bivalves 1/3 Fish 10/19 Birds 1/1	Bivalves 0.0000009 Fish 0.0000006～0.000010 Birds 0.0000010	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	18/35	18/35	0.00001～0.00004	(0.00001)					
			2016	11/48	11/48	0.0000001～0.0000003	(0.0000001)	48/62	48/62	0.0000002～0.00022	(0.0000002)	Bivalves 1/3 Fish 9/19 Birds 2/2	Bivalves 1/3 Fish 9/19 Birds 2/2	Bivalves 0.0000015 Fish 0.0000006～0.0000065 Birds 0.0000013～0.000026	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	27/37	27/37	0.00001～0.00010	(0.00001)					
			2017	0/47	0/47	–	(0.0000005)	51/62	51/62	0.00000009～0.00022	(0.00000009)	Bivalves 1/3 Fish 7/19 Birds 1/2	Bivalves 1/3 Fish 7/19 Birds 1/2	Bivalves 0.0000015 Fish 0.0000013～0.0000066 Birds 0.000062	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	32/37	32/37	0.00001～0.0001	(0.00001)					
			2018	3/47	3/47	0.0000002～0.0000005	(0.0000002)	45/61	45/61	0.0000004～0.00023	(0.0000004)	Bivalves 1/3 Fish 8/18 Birds 2/2	Bivalves 1/3 Fish 8/18 Birds 2/2	Bivalves 0.0000008 Fish 0.0000010～0.000018 Birds 0.000016～0.000023	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	17/37	17/37	0.000009～0.000030	(0.000009)					
			2019	12/48	12/48	0.0000002～0.0000014	(0.0000002)	52/61	52/61	0.0000002～0.00030	(0.0000002)	Bivalves 1/3 Fish 9/16 Birds 1/1	Bivalves 1/3 Fish 9/16 Birds 1/1	Bivalves 0.0000012 Fish 0.0000006～0.0000071 Birds 0.0000010	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	26/36	26/36	0.000010～0.000040	(0.000009)					
			2020	5/46	5/46	0.0000004～0.0000008	(0.0000003)	44/58	44/58	0.0000003～0.00015	(0.0000003)	Bivalves 1/3 Fish 10/18 Birds 1/1	Bivalves 1/3 Fish 10/18 Birds 1/1	Bivalves 0.0000007 Fish 0.0000007～0.000013 Birds 0.000020	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	17/37	17/37	0.000008～0.000058	(0.000008)					
			2021	5/47	5/47	0.0000003～0.0000007	(0.0000003)	51/60	51/60	0.0000003～0.00017	(0.0000003)	Bivalves 1/3 Fish 11/18 Birds 2/2	Bivalves 1/3 Fish 11/18 Birds 2/2	Bivalves 0.0000008 Fish 0.0000007～0.000012 Birds 0.0000016～0.000037	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	6/35	6/35	0.00002～0.00003	(0.00002)					
			2022	4/48	4/48	0.0000003～0.0000007	(0.0000003)	50/61	50/61	0.0000002～0.00013	(0.0000002)	Bivalves 1/3 Fish 16/18 Birds 2/2	Bivalves 1/3 Fish 16/18 Birds 2/2	Bivalves 0.0000026 Fish 0.0000004～0.000023 Birds 0.000019～0.000044	(Bivalves 0.0000002) (Fish 0.0000002) (Birds 0.0000002)	2/36	2/36	0.00002～0.00006	(0.00002)					
			2023	1/47	1/47	0.0000004	(0.0000003)	50/60	50/60	0.0000002～0.00016	(0.0000002)	Bivalves 1/2 Fish 16/18 Birds 2/2	Bivalves 1/2 Fish 16/18 Birds 2/2	Bivalves 0.0000005 Fish 0.0000004～0.000015 Birds 0.000012～0.000076	(Bivalves 0.0000002) (Fish 0.0000002) (Birds 0.0000002)	5/35	5/35	0.00002～0.00004	(0.00002)					
			2024	2/47	2/47	0.0000006～0.0000011	(0.0000005)	41/60	41/60	0.0000007～0.00025	(0.0000006)	Bivalves 1/3 Fish 13/16 Birds 2/2	Bivalves 1/3 Fish 13/16 Birds 2/2	Bivalves 0.0000028 Fish 0.0000007～0.000036 Birds 0.0000099～0.00010	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	4/35	4/35	0.00002～0.00003	(0.00002)					
852-5	Pentachlorobiphenyls	25429-29-2	2000	28/28	28/28	0.0000086～0.00072	(0.00000003)	36/36	36/36	0.000015～0.20	(0.00000006)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.00088～0.080	(Bivalves & Fish 0.00000002)	17/17	17/17	0.0099～0.65	(0.000002)					852-5
			2001	28/29	28/29	0.0000006～0.00044	(0.00000003～0.000005)	39/39	39/39	0.000023～0.12	(0.00000003～0.000003)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.00087～0.19	(Bivalves & Fish 0.00000002～0.0000004)	15/15	15/15	0.0057～0.36	(0.000002～0.0002)					
			2002	114/114	38/38	0.0000064～0.0023	(0.0000002)	189/189	63/63	0.0000045～0.13	(0.0000004)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000037～0.043 Fish 0.00022～0.17 Birds 0.00079～0.0051	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	102/102	34/34	0.0012～0.20	(0.0004)					
			2003	36/36	36/36	0.000042～0.00071	(0.00000007)	186/186	62/62	0.0000085～0.97	(0.0000002)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.00027～0.042 Fish 0.00015～0.048 Birds 0.00082～0.0093	(Bivalves 0.0000019) (Fish 0.0000019) (Birds 0.0000019)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.0028～1.1 C.S. 0.0019～0.23	(W.S. 0.00011) (C.S. 0.00011)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2004	38/38	38/38	0.000024～0.00095	(0.0000002)	189/189	63/63	0.0000095～0.24	(0.00000006)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.00044～0.046 Fish 0.00029～0.19 Birds 0.00079～0.0031	(Bivalves 0.0000022) (Fish 0.0000022) (Birds 0.0000022)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0024～1.6 C.S. 0.0017～0.23	(W.S. 0.000089) (C.S. 0.000089)					
			2005	47/47	47/47	0.000021～0.0011	(0.00000014)	189/189	63/63	0.0000073～0.15	(0.000000054)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00023～0.027 Fish 0.00025～0.21 Birds 0.00074～0.0048	(Bivalves 0.0000018) (Fish 0.0000018) (Birds 0.0000018)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0024～0.74 C.S. 0.0023～0.098	(W.S. 0.000024) (C.S. 0.000024)					
			2006	48/48	48/48	0.0000027～0.00075	(0.0000001)	192/192	64/64	0.0000061～0.20	(0.00000009)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00020～0.026 Fish 0.00033～0.11 Birds 0.00072～0.0080	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0022～0.53 C.S. 0.0014～0.046	(W.S. 0.00006) (C.S. 0.00006)					
			2007	48/48	48/48	0.0000034～0.00062	(0.0000002)	192/192	64/64	0.0000043～0.17	(0.00000008)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00029～0.021 Fish 0.00018～0.16 Birds 0.00045～0.0039	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0024～0.90 C.S. 0.0014～0.13	(W.S. 0.000009) (C.S. 0.000009)					
			2008	48/48	48/48	0.0000054～0.00081	(0.0000001)	192/192	64/64	0.0000055～0.12	(0.00000005)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.00025～0.020 Fish 0.00013～0.12 Birds 0.00035～0.015	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0041～0.43 C.S. 0.0013～0.11	(W.S. 0.00001) (C.S. 0.00001)					
			2009	49/49	49/49	0.0000026～0.00065	(0.0000003)	192/192	64/64	0.0000069～0.29	(0.0000001)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.00022～0.021 Fish 0.00019～0.085 Birds 0.00048～0.0027	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0022～0.64 C.S. 0.0014～0.13	(W.S. 0.00001) (C.S. 0.00001)					
			2010	49/49	49/49	0.000004～0.00052	(0.000002)	59/64	59/64	0.000066～0.14	(0.00004)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.00040～0.015 Fish 0.00025～0.071 Birds 0.00076～0.0022	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0025～0.46 C.S. 0.0015～0.13	(W.S. 0.0002) (C.S. 0.0002)					
			2011	49/49	49/49	0.0000022～0.00044	(0.0000002)	64/64	64/64	0.0000027～0.17	(0.0000004)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.00020～0.021 Fish 0.00023～0.068 Birds 0.00077	(Bivalves 0.000020) (Fish 0.000020) (Birds 0.000020)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.0017～0.31 C.S. 0.0011～0.12	(W.S. 0.00031) (C.S. 0.00031)					
			2012	48/48	48/48	0.0000090～0.0013	(0.0000007)	63/63	63/63	0.0000098～0.140	(0.0000004)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.00015～0.010 Fish 0.00032～0.039 Birds 0.0010～0.0015	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0018～0.37 C.S. 0.0010～0.084	(W.S. 0.00031) (C.S. 0.00031)					
			2013	48/48	48/48	0.0000032～0.00055	(0.0000008)	62/62	62/62	0.000009～0.086	(0.000002)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.00020～0.014 Fish 0.00033～0.076 Birds 0.057～0.10	(Bivalves 0.0000013) (Fish 0.0000013) (Birds 0.0000013)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0014～0.43 C.S. 0.0012～0.030	(W.S. 0.00006) (C.S. 0.00006)					
			2014	48/48	48/48	0.0000030～0.00091	(0.0000003)	63/63	63/63	0.000008～0.089	(0.000001)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.00017～0.0048 Fish 0.00015～0.066 Birds 0.0049～0.032	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)	36/36	36/36	0.0015～0.64	(0.00009)					
			2015	48/48	48/48	0.0000056～0.00089	(0.0000005)	62/62	62/62	0.000008～0.22	(0.000001)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.00016～0.0031 Fish 0.00019～0.062 Birds 0.0011	(Bivalves 0.0000018) (Fish 0.0000018) (Birds 0.0000018)	35/35	35/35	0.0013～0.094	(0.0002)					
			2016	48/48	48/48	0.0000017～0.00049	(0.0000003)	62/62	62/62	0.0000074～0.16	(0.0000011)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.00011～0.0039 Fish 0.00015～0.044 Birds 0.0023～0.027	(Bivalves 0.0000028) (Fish 0.0000028) (Birds 0.0000028)	37/37	37/37	0.0013～0.15	(0.0003)					
			2017	47/47	47/47	0.0000020～0.00079	(0.0000004)	61/62	61/62	0.0000089～0.11	(0.0000008)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.00014～0.0061 Fish 0.00011～0.040 Birds 0.00099～0.11	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	37/37	37/37	0.0009～0.25	(0.0002)					
			2018	47/47	47/47	0.0000014～0.00040	(0.0000003)	58/61	58/61	0.000026～0.12	(0.000016)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.00020～0.0038 Fish 0.00026～0.078 Birds 0.024～0.030	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.0006～0.067	(0.0001)					
			2019	46/48	46/48	0.0000011～0.00042	(0.0000003)	61/61	61/61	0.0000093～0.12	(0.0000002)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000098～0.0062 Fish 0.00025～0.045 Birds 0.036	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.0015～0.039	(0.00009)					
			2020	37/46	37/46	0.000001～0.00062	(0.000001)	58/58	58/58	0.0000062～0.08	(0.0000004)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.00011～0.0030 Fish 0.00018～0.027 Birds 0.021	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.0013～0.11	(0.00009)					
			2021	43/47	43/47	0.0000017～0.00045	(0.0000006)	60/60	60/60	0.000012～0.097	(0.0000001)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.00012～0.0018 Fish 0.00012～0.034 Birds 0.022～0.051	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	35/35	35/35	0.0012～0.064	(0.0001)					
			2022	46/48	46/48	0.0000011～0.00072	(0.0000004)	61/61	61/61	0.0000063～0.064	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000054～0.0030 Fish 0.000070～0.044 Birds 0.047～0.063	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	36/36	36/36	0.0012～0.034	(0.00007)					
			2023	47/47	47/47	0.0000006～0.00031	(0.0000004)	60/60	60/60	0.0000053～0.072	(0.0000002)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.000062～0.00043 Fish 0.00019～0.025 Birds 0.013～0.085	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	35/35	35/35	0.0007～0.042	(0.0001)					
			2024	46/47	46/47	0.0000006～0.00091	(0.0000006)	60/60	60/60	0.0000074～0.091	(0.0000003)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.000045～0.0016 Fish 0.00029～0.037 Birds 0.011～0.21	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	26/35	26/35	0.0011～0.032	(0.0001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
852-5-1	2,3,3',4,4'-Pentachlorobiphenyl (PCB#105)	32598-14-4	2000	28/28	28/28	0.00000020～0.000030	(0.0000003)	35/36	35/36	0.0000020～0.014	(0.0000006)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.000032～0.0052	(Bivalves & Fish 0.0000009)	16/16	16/16	0.00021～0.027	(0.000003)					852-5-1
			2001	27/29	27/29	0.0000006～0.000014	(0.0000004)	39/39	39/39	0.0000011～0.0062	(0.0000004)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.000038～0.0084	(Bivalves & Fish 0.0000002)	14/15	14/15	0.00013～0.0060	(0.000003)					
			2003	36/36	36/36	0.0000013～0.000026	(0.0000007)	173/186	59/62	0.0000021～0.066	(0.000002)	Bivalves 30/30 Fish 70/70 Birds 7/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.000020～0.0020 Fish 0.000012～0.0022 Birds 0.0000024～0.0011	(Bivalves 0.0000022) (Fish 0.0000022) (Birds 0.0000022)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.00008～0.023 C.S. 0.000056～0.0046	(W.S. 0.0000072) (C.S. 0.0000072)					
			2004	32/38	32/38	0.000002～0.000054	(0.000002)	189/189	63/63	0.0000006～0.014	(0.0000004)	Bivalves 31/31 Fish 70/70 Birds 6/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.000016～0.0024 Fish 0.000022～0.0078 Birds 0.0000017～0.00033	(Bivalves 0.0000014) (Fish 0.0000014) (Birds 0.0000014)	W.S. 37/37 C.S. 36/37	W.S. 37/37 C.S. 36/37	W.S. 0.000069～0.032 C.S. 0.000044～0.0047	(W.S. 0.000042) (C.S. 0.000042)					
			2005	44/47	44/47	0.0000008～0.000032	(0.000001)	189/189	63/63	0.0000006～0.013	(0.0000003)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000018～0.0011 Fish 0.0000096～0.0088 Birds 0.0000011～0.00056	(Bivalves 0.0000011) (Fish 0.0000011) (Birds 0.0000011)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000042～0.013 C.S. 0.000036～0.0013	(W.S. 0.0000024) (C.S. 0.0000024)					
			2006	33/48	33/48	0.0000010～0.000030	(0.0000010)	192/192	64/64	0.0000004～0.012	(0.0000003)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000013～0.0010 Fish 0.000011～0.0042 Birds 0.000002～0.00083	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000037～0.0053 C.S. 0.000029～0.0016	(W.S. 0.000005) (C.S. 0.000005)					
			2007	46/48	46/48	0.0000002～0.000026	(0.0000002)	191/192	64/64	0.0000006～0.0084	(0.0000004)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000019～0.00077 Fish 0.000011～0.0068 Birds 0.0000009～0.00039	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.000076～0.016 C.S. 0.000029～0.0025	(W.S. 0.000007) (C.S. 0.000007)					
			2008	48/48	48/48	0.0000004～0.000035	(0.0000002)	192/192	64/64	0.0000006～0.0073	(0.0000001)	Bivalves 31/31 Fish 85/85 Birds 5/10	Bivalves 7/7 Fish 17/17 Birds 1/2	Bivalves 0.000015～0.00080 Fish 0.000012～0.0048 Birds 0.00026～0.0019	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000073～0.0078 C.S. 0.000022～0.0024	(W.S. 0.000008) (C.S. 0.000008)					
			2009	43/49	43/49	0.0000006～0.000032	(0.0000006)	192/192	64/64	0.0000006～0.020	(0.0000001)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000014～0.00098 Fish 0.000012～0.0031 Birds 0.0000009～0.00029	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00005～0.011 C.S. 0.00003～0.0025	(W.S. 0.00001) (C.S. 0.00001)					
			2010	48/49	48/49	0.0000002～0.000017	(0.0000002)	63/64	63/64	0.000001～0.0062	(0.000001)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000024～0.00067 Fish 0.000021～0.0027 Birds 0.000002～0.00021	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000062～0.0092 C.S. 0.000033～0.0030	(W.S. 0.000006) (C.S. 0.000006)					
			2011	47/49	47/49	0.0000002～0.000020	(0.0000002)	63/64	63/64	0.0000009～0.011	(0.0000003)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.0000095～0.00083 Fish 0.000013～0.0026 Birds 0.0000015	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.00004～0.0058 C.S. 0.00002～0.0025	(W.S. 0.00001) (C.S. 0.00001)					
			2012	46/48	46/48	0.0000003～0.000031	(0.0000001)	63/63	63/63	0.0000009～0.0080	(0.0000007)	Bivalves 5/5 Fish 19/19 Birds 1/2	Bivalves 5/5 Fish 19/19 Birds 1/2	Bivalves 0.0000077～0.00037 Fish 0.000011～0.0016 Birds 0.00015	(Bivalves 0.0000010) (Fish 0.0000010) (Birds 0.0000010)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.000029～0.0069 C.S. 0.000024～0.0018	(W.S. 0.000009) (C.S. 0.000009)					
			2013	48/48	48/48	0.00000013～0.000033	(0.00000008)	62/62	62/62	0.00000089～0.0055	(0.00000015)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000098～0.00052 Fish 0.000013～0.0029 Birds 0.0064～0.013	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.000049～0.0081 C.S. 0.000029～0.00063	(W.S. 0.000006) (C.S. 0.000006)					
			2014	47/48	47/48	0.00000013～0.000039	(0.00000004)	63/63	63/63	0.0000008～0.0058	(0.0000001)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000087～0.00022 Fish 0.000012～0.0025 Birds 0.00013～0.0042	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	36/36	36/36	0.000035～0.012	(0.000008)					
			2015	48/48	48/48	0.0000002～0.000023	(0.0000002)	62/62	62/62	0.0000007～0.012	(0.0000005)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.0000075～0.00014 Fish 0.000014～0.0021 Birds 0.00018	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	35/35	35/35	0.000024～0.0022	(0.000009)					
			2016	47/48	47/48	0.0000002～0.000018	(0.0000001)	62/62	62/62	0.0000009～0.011	(0.0000004)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000057～0.00018 Fish 0.000015～0.0015 Birds 0.00037～0.0036	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	37/37	37/37	0.00003～0.0036	(0.00001)					
			2017	37/47	37/47	0.0000004～0.000078	(0.0000004)	62/62	62/62	0.0000002～0.0069	(0.0000001)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000074～0.00032 Fish 0.000009～0.0015 Birds 0.00011～0.015	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	37/37	37/37	0.00003～0.0063	(0.00001)					
			2018	42/47	42/47	0.0000003～0.000013	(0.0000003)	61/61	61/61	0.0000009～0.0081	(0.0000001)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000011～0.00018 Fish 0.000015～0.0031 Birds 0.0028～0.0040	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	37/37	37/37	0.00002～0.0015	(0.00002)					
			2019	38/48	38/48	0.0000003～0.000018	(0.0000003)	61/61	61/61	0.0000009～0.0080	(0.0000002)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.0000050～0.00030 Fish 0.000017～0.0017 Birds 0.0036	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	36/36	36/36	0.00003～0.001	(0.00002)					
			2020	24/46	24/46	0.000001～0.000027	(0.000001)	58/58	58/58	0.0000006～0.0047	(0.0000004)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.0000051～0.00016 Fish 0.000014～0.00091 Birds 0.0032	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	37/37	37/37	0.00003～0.0033	(0.00001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2021	32/47	32/47	0.0000006～0.000018	(0.0000006)	60/60	60/60	0.0000012～0.0060	(0.0000001)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000052～0.000087 Fish 0.000013～0.0011 Birds 0.0028～0.0053	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	35/35	35/35	0.00002～0.0018	(0.00002)					
			2022	38/48	38/48	0.0000005～0.000026	(0.0000004)	61/61	61/61	0.0000006～0.0041	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000029～0.00014 Fish 0.0000056～0.0015 Birds 0.0070～0.010	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	35/36	35/36	0.00002～0.0010	(0.00002)					
			2023	40/47	40/47	0.0000004～0.000016	(0.0000004)	60/60	60/60	0.0000007～0.0056	(0.0000002)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.0000035～0.000017 Fish 0.000013～0.00095 Birds 0.0018～0.012	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	34/35	34/35	0.00002～0.0011	(0.00002)					
			2024	36/47	36/47	0.0000006～0.000011	(0.0000006)	60/60	60/60	0.0000009～0.0060	(0.0000003)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.0000024～0.000074 Fish 0.000022～0.0012 Birds 0.0017～0.026	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	26/35	26/35	0.00002～0.00084	(0.00002)					
852-5-2	2,3,4,4',5-Pentachlorobiphenyl (PCB#114)	74472-37-0	2000	15/28	15/28	0.00000030～0.0000020	(0.0000002)	32/36	32/36	0.00000060～0.00097	(0.0000004)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.0000021～0.00041	(Bivalves & Fish 0.0000001)	16/16	16/16	0.000030～0.0017	(0.00001)					852-5-2
			2001	16/29	16/29	0.0000003～0.0000034	(0.0000003)	36/39	36/39	0.0000004～0.00050	(0.0000003)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.0000019～0.00074	(Bivalves & Fish 0.0000002)	15/15	15/15	0.00002～0.00057	(0.00001)					
			2003	36/36	36/36	0.0000001～0.0000012	(0.0000001)	164/186	56/62	0.0000003～0.0055	(0.0000003)	Bivalves 30/30 Fish 69/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000012～0.000097 Fish 0.0000011～0.00016 Birds 0.0000011～0.000087	(Bivalves 0.0000011) (Fish 0.0000011) (Birds 0.0000011)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.0000091～0.0019 C.S. 0.0000088～0.00031	(W.S. 0.0000082) (C.S. 0.0000082)					
			2004	35/38	35/38	0.0000002～0.0000035	(0.0000002)	162/189	56/63	0.0000003～0.0012	(0.0000003)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.0000030～0.00018 Fish 0.0000022～0.00077 Birds 0.000012～0.000040	(Bivalves 0.00000077) (Fish 0.00000077) (Birds 0.00000077)	W.S. 33/37 C.S. 26/37	W.S. 33/37 C.S. 26/37	W.S. 0.000022～0.0028 C.S. 0.000021～0.00050	(W.S. 0.00002) (C.S. 0.00002)					
			2005	28/47	28/47	0.00000004～0.0000020	(0.0000002)	171/189	60/63	0.0000002～0.0011	(0.0000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000020～0.000084 Fish 0.0000011～0.00089 Birds 0.000012～0.000059	(Bivalves 0.00000063) (Fish 0.00000063) (Birds 0.00000063)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0000040～0.00099 C.S. 0.0000050～0.00011	(W.S. 0.0000024) (C.S. 0.0000024)					
			2006	10/48	10/48	0.00000007～0.0000015	(0.0000005)	171/192	59/64	0.0000002～0.00075	(0.0000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000013～0.000080 Fish 0.0000012～0.00041 Birds 0.0000088～0.00012	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 37/37 C.S. 34/37	W.S. 37/37 C.S. 34/37	W.S. 0.000006～0.00045 C.S. 0.000006～0.00011	(W.S. 0.000006) (C.S. 0.000006)					
			2007	10/48	10/48	0.0000005～0.0000014	(0.0000004)	161/192	57/64	0.0000003～0.00067	(0.0000003)	Bivalves 31/31 Fish 79/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000001～0.000054 Fish 0.000001～0.00051 Birds 0.000007～0.000032	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 35/36	W.S. 36/36 C.S. 35/36	W.S. 0.000009～0.0014 C.S. 0.000006～0.00029	(W.S. 0.000005) (C.S. 0.000005)					
			2008	25/48	25/48	0.00000007～0.0000021	(0.0000002)	185/192	64/64	0.0000001～0.00065	(0.0000001)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.0000010～0.000053 Fish 0.0000009～0.00052 Birds 0.0000019～0.00018	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 37/37 C.S. 30/37	W.S. 37/37 C.S. 30/37	W.S. 0.000009～0.00071 C.S. 0.000009～0.00018	(W.S. 0.000008) (C.S. 0.000008)					
			2009	11/49	11/49	0.00000004～0.0000017	(0.0000004)	186/192	64/64	0.0000001～0.0015	(0.0000001)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.0000007～0.000061 Fish 0.0000010～0.00031 Birds 0.0000041～0.000031	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 36/37 C.S. 31/37	W.S. 36/37 C.S. 31/37	W.S. 0.000008～0.0011 C.S. 0.000008～0.00028	(W.S. 0.000008) (C.S. 0.000008)					
			2010	32/49	32/49	0.000000045～0.0000011	(0.0000001)	62/64	62/64	0.00000009～0.00043	(0.00000009)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000001～0.000038 Fish 0.000001～0.00019 Birds 0.000004～0.000020	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/37 C.S. 31/37	W.S. 35/37 C.S. 31/37	W.S. 0.000009～0.00087 C.S. 0.000011～0.00025	(W.S. 0.000009) (C.S. 0.000009)					
			2011	12/49	12/49	0.00000003～0.0000012	(0.0000002)	59/64	59/64	0.0000002～0.00077	(0.0000002)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.0000011～0.000050 Fish 0.0000011～0.00019 Birds 0.0000049	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 31/35 C.S. 26/37	W.S. 31/35 C.S. 26/37	W.S. 0.000012～0.00049 C.S. 0.00001～0.00021	(W.S. 0.000009) (C.S. 0.000009)					
			2012	8/48	8/48	0.0000007～0.0000023	(0.0000003)	50/63	50/63	0.0000008～0.00065	(0.0000007)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000011～0.000031 Fish 0.0000009～0.00018 Birds 0.0000053～0.000013	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 33/36 C.S. 23/36	W.S. 33/36 C.S. 23/36	W.S. 0.000008～0.00059 C.S. 0.000007～0.00014	(W.S. 0.000007) (C.S. 0.000007)					
			2013	20/48	20/48	0.00000009～0.0000019	(0.00000009)	58/62	58/62	0.0000001～0.00036	(0.0000001)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000014～0.000031 Fish 0.0000013～0.00031 Birds 0.00083～0.0017	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 34/36 C.S. 33/36	W.S. 34/36 C.S. 33/36	W.S. 0.000007～0.00078 C.S. 0.000007～0.00008	(W.S. 0.000006) (C.S. 0.000006)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2014	30/48	30/48	0.00000005～0.0000019	(0.00000004)	59/63	59/63	0.00000013～0.00042	(0.00000009)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.0000010～0.000012 Fish 0.0000016～0.00020 Birds 0.0000064～0.00044	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	31/36	31/36	0.00001～0.00088	(0.00001)					
			2015	13/48	13/48	0.0000002～0.0000016	(0.0000002)	50/62	50/62	0.0000007～0.00094	(0.0000006)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.0000013～0.0000074 Fish 0.0000019～0.00023 Birds 0.000015	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	29/35	29/35	0.000010～0.00019	(0.000008)					
			2016	8/48	8/48	0.0000004～0.0000013	(0.0000003)	51/62	51/62	0.0000003～0.00083	(0.0000003)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000007～0.0000083 Fish 0.0000013～0.00011 Birds 0.000031～0.00038	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	34/37	34/37	0.000008～0.00032	(0.000008)					
			2017	6/47	6/47	0.0000005～0.0000036	(0.0000004)	58/62	58/62	0.00000009～0.00049	(0.00000009)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.0000011～0.000018 Fish 0.0000013～0.00015 Birds 0.000013～0.0016	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	34/37	34/37	0.00001～0.00058	(0.000007)					
			2018	8/47	8/47	0.0000003～0.0000010	(0.0000003)	44/61	44/61	0.0000008～0.00062	(0.0000008)	Bivalves 2/3 Fish 18/18 Birds 2/2	Bivalves 2/3 Fish 18/18 Birds 2/2	Bivalves 0.0000008～0.0000091 Fish 0.0000009～0.00021 Birds 0.00024～0.00037	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	29/37	29/37	0.000009～0.00012	(0.000009)					
			2019	9/48	9/48	0.0000003～0.0000012	(0.0000003)	53/61	53/61	0.0000002～0.00046	(0.0000002)	Bivalves 2/3 Fish 16/16 Birds 1/1	Bivalves 2/3 Fish 16/16 Birds 1/1	Bivalves 0.0000013～0.000014 Fish 0.0000012～0.00012 Birds 0.0003	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	24/36	24/36	0.00002～0.00010	(0.00002)					
			2020	3/46	3/46	0.000001～0.000002	(0.000001)	44/58	44/58	0.0000004～0.00031	(0.0000004)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.0000008～0.000010 Fish 0.0000016～0.00011 Birds 0.00031	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	34/37	34/37	0.00001～0.00027	(0.00001)					
			2021	1/47	1/47	0.0000010	(0.0000006)	51/60	51/60	0.0000004～0.00042	(0.0000001)	Bivalves 2/3 Fish 18/18 Birds 2/2	Bivalves 2/3 Fish 18/18 Birds 2/2	Bivalves 0.0000016～0.0000077 Fish 0.0000013～0.00020 Birds 0.00041～0.00070	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	18/35	18/35	0.00002～0.00017	(0.00002)					
			2022	5/48	5/48	0.0000004～0.0000018	(0.0000004)	57/61	57/61	0.0000002～0.00032	(0.0000002)	Bivalves 1/3 Fish 18/18 Birds 2/2	Bivalves 1/3 Fish 18/18 Birds 2/2	Bivalves 0.0000055 Fish 0.0000005～0.00015 Birds 0.00063～0.0010	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	16/36	16/36	0.00002～0.00009	(0.00002)					
			2023	4/47	4/47	0.0000004～0.0000008	(0.0000004)	54/60	54/60	0.0000003～0.00036	(0.0000002)	Bivalves 1/2 Fish 18/18 Birds 2/2	Bivalves 1/2 Fish 18/18 Birds 2/2	Bivalves 0.0000007 Fish 0.0000013～0.000078 Birds 0.00018～0.0012	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	17/35	17/35	0.00002～0.00009	(0.00002)					
			2024	3/47	3/47	0.0000006～0.0000009	(0.0000006)	53/60	53/60	0.0000004～0.00046	(0.0000003)	Bivalves 2/3 Fish 16/16 Birds 2/2	Bivalves 2/3 Fish 16/16 Birds 2/2	Bivalves 0.0000011～0.0000051 Fish 0.0000023～0.00017 Birds 0.00017～0.0028	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	14/35	14/35	0.00002～0.00008	(0.00002)					
852-5-3	2,3',4,4',5-Pentachlorobiphenyl (PCB#118)	31508-00-6	2000	28/28	28/28	0.00000070～0.00010	(0.0000003)	36/36	36/36	0.0000030～0.032	(0.0000006)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.00015～0.011	(Bivalves & Fish 0.0000007)	16/16	16/16	0.00074～0.078	(0.00001)					852-5-3
			2001	25/29	25/29	0.0000020～0.000037	(0.0000020)	39/39	39/39	0.0000030～0.0092	(0.0000010)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.00013～0.029	(Bivalves & Fish 0.0000003)	15/15	15/15	0.0004～0.024	(0.00001)					
			2003	36/36	36/36	0.0000036～0.000087	(0.000002)	183/186	62/62	0.0000021～0.13	(0.000002)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.000049～0.0053 Fish 0.000038～0.0073 Birds 0.000024～0.0037	(Bivalves 0.0000037) (Fish 0.0000037) (Birds 0.0000037)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.00019～0.085 C.S. 0.00014～0.018	(W.S. 0.0000050) (C.S. 0.0000050)					
			2004	35/38	35/38	0.000004～0.00012	(0.000004)	189/189	63/63	0.0000011～0.039	(0.0000005)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.000073～0.0056 Fish 0.000059～0.033 Birds 0.000017～0.0011	(Bivalves 0.00000068) (Fish 0.00000068) (Birds 0.00000068)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00016～0.12 C.S. 0.00011～0.018	(W.S. 0.000081) (C.S. 0.000081)					
			2005	47/47	47/47	0.000002～0.00012	(0.000002)	189/189	63/63	0.0000010～0.028	(0.00000064)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000050～0.0030 Fish 0.000035～0.036 Birds 0.000018～0.0018	(Bivalves 0.00000071) (Fish 0.00000071) (Birds 0.00000071)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00013～0.043 C.S. 0.00012～0.0043	(W.S. 0.0000034) (C.S. 0.0000034)					
			2006	45/48	45/48	0.0000012～0.000091	(0.0000010)	192/192	64/64	0.0000008～0.025	(0.0000003)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000034～0.0028 Fish 0.000038～0.018 Birds 0.000022～0.0031	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00016～0.016 C.S. 0.00007～0.0042	(W.S. 0.00002) (C.S. 0.00002)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2007	46/48	46/48	0.0000004～0.000082	(0.0000004)	192/192	64/64	0.0000009～0.022	(0.0000003)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000046～0.0021 Fish 0.000039～0.022 Birds 0.000017～0.0013	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00018～0.063 C.S. 0.000083～0.0089	(W.S. 0.000005) (C.S. 0.000005)					
			2008	48/48	48/48	0.0000009～0.000097	(0.0000001)	192/192	64/64	0.0000007～0.016	(0.0000002)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000037～0.0023 Fish 0.000037～0.019 Birds 0.000013～0.0057	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00020～0.029 C.S. 0.000065～0.0079	(W.S. 0.000009) (C.S. 0.000009)					
			2009	48/49	48/49	0.0000008～0.000087	(0.0000006)	192/192	64/64	0.0000013～0.044	(0.0000001)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000036～0.0025 Fish 0.000045～0.012 Birds 0.000017～0.00094	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00014～0.044 C.S. 0.000087～0.010	(W.S. 0.000009) (C.S. 0.000009)					
			2010	49/49	49/49	0.0000004～0.000055	(0.0000002)	61/64	61/64	0.000005～0.017	(0.000005)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000078～0.0019 Fish 0.00006～0.01 Birds 0.000021～0.00080	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00018～0.035 C.S. 0.00008～0.01	(W.S. 0.00002) (C.S. 0.00002)					
			2011	49/49	49/49	0.0000004～0.000059	(0.0000002)	64/64	64/64	0.0000005～0.026	(0.0000004)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000042～0.0024 Fish 0.000042～0.010 Birds 0.000022	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.00013～0.023 C.S. 0.000060～0.0094	(W.S. 0.000028) (C.S. 0.000028)					
			2012	48/48	48/48	0.0000008～0.00010	(0.0000007)	63/63	63/63	0.0000021～0.020	(0.0000009)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000033～0.0012 Fish 0.000040～0.0068 Birds 0.000014～0.00051	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00011～0.026 C.S. 0.00006～0.0062	(W.S. 0.00002) (C.S. 0.00002)					
			2013	48/48	48/48	0.0000006～0.000072	(0.0000001)	62/62	62/62	0.0000015～0.014	(0.0000003)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000039～0.0016 Fish 0.000046～0.011 Birds 0.026～0.047	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00011～0.031 C.S. 0.000075～0.0021	(W.S. 0.000009) (C.S. 0.000009)					
			2014	48/48	48/48	0.00000051～0.000077	(0.00000009)	63/63	63/63	0.0000016～0.014	(0.0000002)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000036～0.00074 Fish 0.000043～0.011 Birds 0.00076～0.014	(Bivalves 0.0000014) (Fish 0.0000014) (Birds 0.0000014)	36/36	36/36	0.00010～0.045	(0.00002)					
			2015	48/48	48/48	0.0000008～0.000088	(0.0000002)	62/62	62/62	0.0000017～0.030	(0.0000007)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.000031～0.00049 Fish 0.000045～0.011 Birds 0.00050	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	35/35	35/35	0.00007～0.0062	(0.00002)					
			2016	48/48	48/48	0.0000004～0.000060	(0.0000001)	62/62	62/62	0.0000017～0.025	(0.0000002)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000022～0.00058 Fish 0.000041～0.0059 Birds 0.0011～0.010	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	37/37	37/37	0.00007～0.011	(0.00003)					
			2017	47/47	47/47	0.0000004～0.00011	(0.0000003)	62/62	62/62	0.0000007～0.017	(0.0000003)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000027～0.00095 Fish 0.000026～0.0067 Birds 0.00039～0.058	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	37/37	37/37	0.00006～0.021	(0.00003)					
			2018	47/47	47/47	0.00000029～0.000045	(0.00000005)	61/61	61/61	0.0000018～0.019	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000037～0.00055 Fish 0.000046～0.010 Birds 0.010～0.015	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	37/37	37/37	0.00005～0.0043	(0.00003)					
			2019	45/48	45/48	0.0000004～0.000065	(0.0000003)	61/61	61/61	0.0000018～0.019	(0.0000002)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000020～0.0011 Fish 0.000046～0.0067 Birds 0.017	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	36/36	36/36	0.00007～0.0029	(0.00001)					
			2020	35/46	35/46	0.000001～0.000058	(0.000001)	58/58	58/58	0.0000013～0.012	(0.0000004)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.000023～0.00048 Fish 0.000039～0.0034 Birds 0.0080	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	37/37	37/37	0.000098～0.010	(0.000009)					
			2021	42/47	42/47	0.0000007～0.000058	(0.0000006)	60/60	60/60	0.0000028～0.015	(0.0000001)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000026～0.00028 Fish 0.000036～0.0050 Birds 0.0097～0.020	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	35/35	35/35	0.00006～0.0054	(0.00003)					
			2022	44/48	44/48	0.0000005～0.000095	(0.0000004)	61/61	61/61	0.0000011～0.010	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000013～0.00048 Fish 0.000017～0.0073 Birds 0.020～0.027	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	36/36	36/36	0.00006～0.0030	(0.00004)					
			2023	46/47	46/47	0.0000004～0.000034	(0.0000004)	60/60	60/60	0.0000015～0.012	(0.0000002)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.000015～0.000054 Fish 0.000042～0.0038 Birds 0.0052～0.038	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	35/35	35/35	0.00003～0.0035	(0.00003)					
			2024	45/47	45/47	0.0000006～0.000036	(0.0000006)	60/60	60/60	0.0000013～0.014	(0.0000003)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.000010～0.00023 Fish 0.000069～0.0062 Birds 0.0053～0.098	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	26/35	26/35	0.00005～0.0025	(0.00002)					
852-5-4	2,3',4,4',5'-Pentachlorobiphenyl (PCB#123)	65510-44-3	2000	8/28	8/28	0.00000060～0.0000018	(0.0000002)	29/36	29/36	0.0000021～0.00070	(0.0000003)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.0000029～0.00037	(Bivalves & Fish 0.00000007)	16/16	16/16	0.000020～0.0012	(0.000002)					852-5-4
			2001	9/29	9/29	0.0000005～0.0000012	(0.0000005)	34/39	34/39	0.0000007～0.00014	(0.0000005)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.0000026～0.00058	(Bivalves & Fish 0.0000003)	14/15	14/15	0.000010～0.00050	(0.000002)					
			2003	36/36	36/36	0.0000001～0.0000034	(0.0000001)	163/186	55/62	0.0000003～0.0035	(0.0000003)	Bivalves 30/30 Fish 67/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000012～0.00012 Fish 0.0000010～0.00018 Birds 0.0000021～0.000051	(Bivalves 0.00000097) (Fish 0.00000097) (Birds 0.00000097)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.0000053～0.00078 C.S. 0.0000058～0.00023	(W.S. 0.0000052) (C.S. 0.0000052)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2004	28/38	28/38	0.0000002～0.0000032	(0.0000002)	167/189	57/63	0.0000002～0.00095	(0.0000002)	Bivalves 31/31 Fish 70/70 Birds 6/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.0000019～0.00015 Fish 0.0000012～0.00048 Birds 0.00000099～0.000018	(Bivalves 0.00000081) (Fish 0.00000081) (Birds 0.00000081)	W.S. 31/37 C.S. 23/37	W.S. 31/37 C.S. 23/37	W.S. 0.000025～0.0017 C.S. 0.000018～0.00027	(W.S. 0.000018) (C.S. 0.000018)					
			2005	43/47	43/47	0.00000005～0.0000021	(0.0000001)	182/189	62/63	0.0000001～0.00084	(0.0000001)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000011～0.000068 Fish 0.00000067～0.00050 Birds 0.00000067～0.000028	(Bivalves 0.00000060) (Fish 0.00000060) (Birds 0.00000060)	W.S. 36/37 C.S. 37/37	W.S. 36/37 C.S. 37/37	W.S. 0.0000020～0.00061 C.S. 0.0000029～0.000071	(W.S. 0.0000010) (C.S. 0.0000010)					
			2006	20/48	20/48	0.00000009～0.0000021	(0.0000003)	186/192	63/64	0.00000009～0.00051	(0.00000009)	Bivalves 31/31 Fish 80/80 Birds 9/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000008～0.000069 Fish 0.0000008～0.00027 Birds 0.0000008～0.000050	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 36/37 C.S. 33/37	W.S. 36/37 C.S. 33/37	W.S. 0.0000008～0.00032 C.S. 0.0000006～0.000073	(W.S. 0.000006) (C.S. 0.000006)					
			2007	13/48	13/48	0.0000004～0.0000017	(0.0000004)	171/192	61/64	0.0000002～0.00053	(0.0000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000012～0.000051 Fish 0.0000007～0.00040 Birds 0.0000005～0.000024	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	W.S. 36/36 C.S. 33/36	W.S. 36/36 C.S. 33/36	W.S. 0.000009～0.00081 C.S. 0.000006～0.00013	(W.S. 0.000006) (C.S. 0.000006)					
			2008	30/48	30/48	0.00000007～0.0000053	(0.0000002)	185/192	64/64	0.0000001～0.00049	(0.0000001)	Bivalves 31/31 Fish 85/85 Birds 8/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.0000011～0.000055 Fish 0.0000008～0.00029 Birds 0.0000005～0.00010	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	W.S. 37/37 C.S. 35/37	W.S. 37/37 C.S. 35/37	W.S. 0.000009～0.00039 C.S. 0.000006～0.00012	(W.S. 0.000006) (C.S. 0.000006)					
			2009	12/49	12/49	0.00000006～0.0000016	(0.0000003)	184/192	64/64	0.0000001～0.0011	(0.0000001)	Bivalves 31/31 Fish 90/90 Birds 8/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.0000009～0.000060 Fish 0.0000008～0.00020 Birds 0.0000006～0.000017	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 34/37 C.S. 28/37	W.S. 34/37 C.S. 28/37	W.S. 0.000008～0.00059 C.S. 0.000009～0.00014	(W.S. 0.000008) (C.S. 0.000008)					
			2010	36/49	36/49	0.000000047～0.0000015	(0.0000001)	63/64	63/64	0.0000001～0.00031	(0.0000001)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000002～0.000046 Fish 0.000001～0.00020 Birds 0.000001～0.000014	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 34/37 C.S. 23/37	W.S. 34/37 C.S. 23/37	W.S. 0.00001～0.00045 C.S. 0.00001～0.00013	(W.S. 0.00001) (C.S. 0.00001)					
			2011	21/49	21/49	0.00000005～0.0000013	(0.0000001)	54/64	54/64	0.0000003～0.00060	(0.0000003)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.0000010～0.000051 Fish 0.0000009～0.00014 Birds 0.0000007	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	W.S. 30/35 C.S. 27/37	W.S. 30/35 C.S. 27/37	W.S. 0.000013～0.00027 C.S. 0.000009～0.00012	(W.S. 0.000009) (C.S. 0.000009)					
			2012	10/48	10/48	0.0000005～0.0000021	(0.0000003)	49/63	49/63	0.0000008～0.00036	(0.0000006)	Bivalves 5/5 Fish 19/19 Birds 1/2	Bivalves 5/5 Fish 19/19 Birds 1/2	Bivalves 0.0000009～0.000026 Fish 0.0000008～0.000093 Birds 0.0000083	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 35/36 C.S. 25/36	W.S. 35/36 C.S. 25/36	W.S. 0.000007～0.00034 C.S. 0.000006～0.0001	(W.S. 0.000006) (C.S. 0.000006)					
			2013	22/48	22/48	0.0000001～0.0000019	(0.0000001)	57/62	57/62	0.00000011～0.00033	(0.00000008)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000010～0.000035 Fish 0.0000008～0.00019 Birds 0.00043～0.00088	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	W.S. 35/36 C.S. 29/36	W.S. 35/36 C.S. 29/36	W.S. 0.000007～0.00045 C.S. 0.000006～0.000042	(W.S. 0.000006) (C.S. 0.000006)					
			2014	21/48	21/48	0.00000010～0.0000026	(0.00000008)	60/63	60/63	0.0000001～0.00035	(0.0000001)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.0000009～0.000014 Fish 0.0000010～0.00014 Birds 0.000010～0.00028	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	30/36	30/36	0.000011～0.00057	(0.000009)					
			2015	10/48	10/48	0.0000003～0.0000015	(0.0000003)	49/62	49/62	0.0000010～0.00062	(0.0000005)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.0000008～0.0000087 Fish 0.0000008～0.00016 Birds 0.000011	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	26/35	26/35	0.000009～0.00013	(0.000009)					
			2016	21/48	21/48	0.0000001～0.0000013	(0.0000001)	51/62	51/62	0.0000003～0.00054	(0.0000003)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000007～0.000012 Fish 0.0000009～0.00011 Birds 0.000021～0.00025	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	31/37	31/37	0.000009～0.00035	(0.000009)					
			2017	11/47	11/47	0.0000002～0.0000039	(0.0000002)	60/62	60/62	0.0000001～0.00031	(0.0000001)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.0000007～0.000016 Fish 0.0000009～0.00010 Birds 0.0000071～0.00094	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	31/37	31/37	0.000012～0.00039	(0.000008)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2018	14/47	14/47	0.0000002～ 0.0000008	(0.0000002)	56/61	56/61	0.0000002～ 0.00047	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000010～ 0.0000095 Fish 0.0000008～ 0.00018 Birds 0.00018～0.00032	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	30/37	30/37	0.000009～ 0.00010	(0.000008)					
			2019	11/48	11/48	0.0000003～ 0.0000014	(0.0000003)	50/61	50/61	0.0000002～ 0.00036	(0.0000002)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.0000007～ 0.000019 Fish 0.0000011～ 0.00012 Birds 0.00024	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	16/36	16/36	0.00002～ 0.00006	(0.00002)					
			2020	2/46	2/46	0.000001～0.000002	(0.000001)	44/58	44/58	0.0000006～ 0.00026	(0.0000004)	Bivalves 2/3 Fish 18/18 Birds 1/1	Bivalves 2/3 Fish 18/18 Birds 1/1	Bivalves 0.0000010～ 0.0000093 Fish 0.0000009～ 0.000047 Birds 0.00019	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	34/37	34/37	0.00001～ 0.00019	(0.00001)					
			2021	1/47	1/47	0.0000012	(0.0000006)	50/60	50/60	0.0000004～ 0.00032	(0.0000001)	Bivalves 2/3 Fish 18/18 Birds 2/2	Bivalves 2/3 Fish 18/18 Birds 2/2	Bivalves 0.0000007～ 0.0000040 Fish 0.0000006～ 0.000073 Birds 0.00020～ 0.00037	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	28/35	28/35	0.00001～ 0.00010	(0.00001)					
			2022	5/48	5/48	0.0000005～ 0.0000015	(0.0000004)	55/61	55/61	0.0000003～ 0.00022	(0.0000002)	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 0.0000074 Fish 0.0000009～ 0.00011 Birds 0.00040～ 0.00058	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	22/36	22/36	0.00001～ 0.00006	(0.00001)					
			2023	3/47	3/47	0.0000005～ 0.0000010	(0.0000004)	54/60	54/60	0.0000003～ 0.00029	(0.0000002)	Bivalves 1/2 Fish 18/18 Birds 2/2	Bivalves 1/2 Fish 18/18 Birds 2/2	Bivalves 0.0000011 Fish 0.0000009～ 0.000058 Birds 0.00014～ 0.00086	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	11/35	11/35	0.00002～ 0.00007	(0.00002)					
			2024	4/47	4/47	0.0000006～ 0.0000007	(0.0000006)	51/60	51/60	0.0000004～ 0.00030	(0.0000003)	Bivalves 2/3 Fish 16/16 Birds 2/2	Bivalves 2/3 Fish 16/16 Birds 2/2	Bivalves 0.0000006～ 0.0000042 Fish 0.0000013～ 0.00010 Birds 0.00016～0.0015	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	3/35	3/35	0.00004～ 0.00006	(0.00004)					
852-5-5	3,3',4,4',5-Pentachlorobiphenyl (PCB#126)	57465-28-8	1990					2/3	2/3	0.000032～ 0.000049	(0.000001)	Fish 3/3	Fish 3/3	Fish 0.000003～0.00012	(Fish 0.000001)									852-5-5
			1991					2/3	2/3	0.000017～ 0.000092	(0.000001)	Fish 3/3	Fish 3/3	Fish 0.000002～ 0.000026	(Fish 0.000001)									
			1992					2/3	2/3	0.000099～ 0.00018	(0.000001)	Fish 3/3	Fish 3/3	Fish 0.000007～ 0.000055	(Fish 0.000001)									
			1993					2/3	2/3	0.000015～ 0.00011	(0.000001)	Fish 3/3	Fish 3/3	Fish 0.000010～0.00012	(Fish 0.000001)									
			1994					2/3	2/3	0.000099～ 0.00017	(0.000001)	Fish 3/3	Fish 3/3	Fish 0.000005～0.00018	(Fish 0.000001)									
			1995					2/3	2/3	0.000010～ 0.00011	(0.000001)	Fish 3/3	Fish 3/3	Fish 0.000009～0.00011	(Fish 0.000001)									
			1996					29/36	29/36	0.000002～ 0.00014	(0.000001)	Fish 34/35	Fish 34/35	Fish 0.000002～ 0.000053	(Fish 0.000001)									
			1997					31/40	31/40	0.000001～ 0.00012	(0.000001)	Bivalves & Fish 38/39	Fish 38/39	Fish 0.000001～ 0.000054	(Fish 0.000001)									
			2000	6/28	6/28	0.00000030～ 0.00000050	(0.0000002)	29/36	29/36	0.00000080～ 0.00013	(0.0000003)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.00000070～0.000059	(Bivalves & Fish 0.00000006)	16/16	16/16	0.000020～ 0.00024	(0.000002)					
			2001	4/28	4/28	0.0000003～ 0.0000037	(0.0000003)	33/39	33/39	0.0000006～ 0.000092	(0.0000003)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.0000009～0.000099	(Bivalves & Fish 0.0000002)	8/15	8/15	0.000017～ 0.0011	(0.000002)					
			2003	11/36	11/36	0.0000001～ 0.0000005	(0.0000001)	159/186	55/62	0.0000002～ 0.00048	(0.0000002)	Bivalves 29/30 Fish 57/70 Birds 5/10	Bivalves 6/6 Fish 13/14 Birds 1/2	Bivalves 0.0000013～ 0.000025 Fish 0.00000097～ 0.000028 Birds 0.000017～ 0.000028	(Bivalves 0.00000096) (Fish 0.00000096) (Birds 0.00000096)	W.S. 34/35 C.S. 31/34	W.S. 34/35 C.S. 31/34	W.S. 0.000011 ～0.00014 C.S. 0.000010 ～0.00014	(W.S. 0.0000089) (C.S. 0.0000089)					
			2004	5/38	5/38	0.0000003～ 0.0000011	(0.0000002)	154/189	55/63	0.0000002～ 0.000095	(0.0000002)	Bivalves 30/31 Fish 65/70 Birds 5/10	Bivalves 7/7 Fish 14/14 Birds 1/2	Bivalves 0.0000010～ 0.000032 Fish 0.0000010～ 0.000082 Birds 0.0000098～ 0.000012	(Bivalves 0.00000095) (Fish 0.00000095) (Birds 0.00000095)	W.S. 18/37 C.S. 17/37	W.S. 18/37 C.S. 17/37	W.S. 0.000030 ～0.00015 C.S. 0.000032 ～0.00069	(W.S. 0.000029) (C.S. 0.000029)					
			2005	14/47	14/47	0.00000003～ 0.0000004	(0.0000001)	160/189	58/63	0.0000001～ 0.00013	(0.0000001)	Bivalves 31/31 Fish 65/80 Birds 5/10	Bivalves 7/7 Fish 14/16 Birds 1/2	Bivalves 0.0000016～ 0.000012 Fish 0.00000081～ 0.000075 Birds 0.000010～ 0.000015	(Bivalves 0.00000078) (Fish 0.00000078) (Birds 0.00000078)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0000020 ～0.00012 C.S. 0.0000020 ～0.000066	(W.S. 0.0000010) (C.S. 0.0000010)					
			2006	11/48	11/48	0.000000050～ 0.0000004	(0.0000002)	159/192	56/64	0.0000002～ 0.000083	(0.0000002)	Bivalves 31/31 Fish 70/80 Birds 6/10	Bivalves 7/7 Fish 15/16 Birds 2/2	Bivalves 0.0000009～ 0.000012 Fish 0.0000009～ 0.000036 Birds 0.0000011～ 0.000020	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 34/37 C.S. 34/37	W.S. 34/37 C.S. 34/37	W.S. 0.000004 ～0.00011 C.S. 0.000004 ～0.000066	(W.S. 0.000004) (C.S. 0.000004)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2007	7/48	7/48	0.0000002～0.0000005	(0.0000002)	150/192	54/64	0.0000002～0.00009	(0.0000002)	Bivalves 31/31 Fish 67/80 Birds 5/10	Bivalves 7/7 Fish 14/16 Birds 1/2	Bivalves 0.0000012～0.0000085 Fish 0.0000009～0.000040 Birds 0.0000066～0.0000096	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 30/36 C.S. 28/36	W.S. 30/36 C.S. 28/36	W.S. 0.000009～0.000091 C.S. 0.000007～0.000074	(W.S. 0.000007) (C.S. 0.000007)					
			2008	4/48	4/48	0.00000003～0.0000006	(0.0000003)	182/192	62/64	0.00000005～0.000080	(0.00000005)	Bivalves 31/31 Fish 67/85 Birds 5/10	Bivalves 7/7 Fish 15/17 Birds 1/2	Bivalves 0.000001～0.000010 Fish 0.000001～0.000034 Birds 0.000009～0.000023	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/37 C.S. 30/37	W.S. 35/37 C.S. 30/37	W.S. 0.000006～0.00012 C.S. 0.000005～0.000058	(W.S. 0.000005) (C.S. 0.000005)					
			2009	3/49	3/49	0.0000003～0.0000004	(0.0000003)	169/192	60/64	0.0000001～0.00018	(0.0000001)	Bivalves 31/31 Fish 73/90 Birds 5/10	Bivalves 7/7 Fish 16/18 Birds 1/2	Bivalves 0.0000008～0.0000088 Fish 0.0000008～0.000022 Birds 0.0000054～0.0000074	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 33/37 C.S. 29/37	W.S. 33/37 C.S. 29/37	W.S. 0.000006～0.000063 C.S. 0.000006～0.00012	(W.S. 0.000006) (C.S. 0.000006)					
			2010	7/49	7/49	0.00000004～0.00000070	(0.0000002)	62/64	62/64	0.0000001～0.000087	(0.0000001)	Bivalves 6/6 Fish 14/18 Birds 1/2	Bivalves 6/6 Fish 14/18 Birds 1/2	Bivalves 0.0000012～0.0000044 Fish 0.0000009～0.000025 Birds 0.0000076	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 31/37 C.S. 28/37	W.S. 31/37 C.S. 28/37	W.S. 0.000009～0.000066 C.S. 0.000011～0.00018	(W.S. 0.000008) (C.S. 0.000008)					
			2011	8/49	8/49	0.00000010～0.00000059	(0.00000009)	51/64	51/64	0.0000003～0.00011	(0.0000002)	Bivalves 4/4 Fish 17/18 Birds 0/1	Bivalves 4/4 Fish 17/18 Birds 0/1	Bivalves 0.0000009～0.000010 Fish 0.0000006～0.000023 Birds －	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	W.S. 29/35 C.S. 24/37	W.S. 29/35 C.S. 24/37	W.S. 0.00001～0.00006 C.S. 0.00001～0.00007	(W.S. 0.00001) (C.S. 0.00001)					
			2012	2/48	2/48	0.0000005～0.0000023	(0.0000002)	49/63	49/63	0.0000005～0.00010	(0.0000004)	Bivalves 5/5 Fish 15/19 Birds 1/2	Bivalves 5/5 Fish 15/19 Birds 1/2	Bivalves 0.0000010～0.0000049 Fish 0.0000009～0.000024 Birds 0.0000041～0.0000041	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 29/36 C.S. 21/36	W.S. 29/36 C.S. 21/36	W.S. 0.000008～0.00007 C.S. 0.000009～0.000038	(W.S. 0.000008) (C.S. 0.000008)					
			2013	15/48	15/48	0.0000001～0.0000015	(0.0000001)	58/62	58/62	0.00000008～0.000086	(0.00000007)	Bivalves 5/5 Fish 18/19 Birds 2/2	Bivalves 5/5 Fish 18/19 Birds 2/2	Bivalves 0.0000008～0.0000073 Fish 0.0000008～0.000022 Birds 0.00012～0.00026	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 29/36 C.S. 24/36	W.S. 29/36 C.S. 24/36	W.S. 0.000007～0.000065 C.S. 0.000007～0.000047	(W.S. 0.000007) (C.S. 0.000007)					
			2014	23/48	23/48	0.00000005～0.00000063	(0.00000005)	55/63	55/63	0.0000001～0.000082	(0.0000001)	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 3/3 Fish 16/19 Birds 2/2	Bivalves 0.0000010～0.0000024 Fish 0.0000010～0.000027 Birds 0.0000023～0.000096	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	29/36	29/36	0.000009～0.000063	(0.000009)					
			2015	4/48	4/48	0.0000002～0.0000006	(0.0000002)	45/62	45/62	0.0000008～0.00016	(0.0000008)	Bivalves 3/3 Fish 18/19 Birds 1/1	Bivalves 3/3 Fish 18/19 Birds 1/1	Bivalves 0.0000009～0.0000016 Fish 0.0000007～0.000022 Birds 0.0000036	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	2/35	2/35	0.00003	(0.00003)					
			2016	9/48	9/48	0.00000010～0.00000052	(0.00000009)	48/62	48/62	0.0000003～0.00012	(0.0000003)	Bivalves 2/3 Fish 17/19 Birds 2/2	Bivalves 2/3 Fish 17/19 Birds 2/2	Bivalves 0.0000011～0.0000022 Fish 0.0000007～0.000018 Birds 0.0000059～0.000070	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	26/37	26/37	0.000008～0.000085	(0.000008)					
			2017	1/47	1/47	0.0000010	(0.0000003)	59/62	59/62	0.0000001～0.000084	(0.0000001)	Bivalves 1/3 Fish 16/19 Birds 2/2	Bivalves 1/3 Fish 16/19 Birds 2/2	Bivalves 0.0000035 Fish 0.0000014～0.000021 Birds 0.0000027～0.00025	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	24/37	24/37	0.000009～0.000048	(0.000009)					
			2018	16/47	16/47	0.0000001～0.0000003	(0.0000001)	46/61	46/61	0.0000004～0.00012	(0.0000004)	Bivalves 2/3 Fish 15/18 Birds 2/2	Bivalves 2/3 Fish 15/18 Birds 2/2	Bivalves 0.0000012～0.0000021 Fish 0.0000008～0.000021 Birds 0.000042～0.00011	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	17/37	17/37	0.000009～0.000036	(0.000009)					
			2019	4/48	4/48	0.0000003～0.0000005	(0.0000003)	47/61	47/61	0.0000003～0.00008	(0.0000002)	Bivalves 3/3 Fish 15/16 Birds 1/1	Bivalves 3/3 Fish 15/16 Birds 1/1	Bivalves 0.0000007～0.0000024 Fish 0.0000009～0.000014 Birds 0.000096	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	27/36	27/36	0.00001～0.00006	(0.00001)					
			2020	0/46	0/46	－	(0.000001)	44/58	44/58	0.0000004～0.000065	(0.0000004)	Bivalves 2/3 Fish 17/18 Birds 1/1	Bivalves 2/3 Fish 17/18 Birds 1/1	Bivalves 0.0000015～0.0000030 Fish 0.0000007～0.000019 Birds 0.000050	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	18/37	18/37	0.000009～0.000043	(0.000009)					
			2021	1/47	1/47	0.0000008	(0.0000006)	45/60	45/60	0.0000004～0.000081	(0.0000001)	Bivalves 3/3 Fish 16/18 Birds 2/2	Bivalves 3/3 Fish 16/18 Birds 2/2	Bivalves 0.0000007～0.0000019 Fish 0.0000007～0.000025 Birds 0.000070～0.00011	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	2/35	2/35	0.00003～0.00004	(0.00003)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2022	4/48	4/48	0.0000004～0.0000022	(0.0000004)	53/61	53/61	0.0000002～0.000065	(0.0000002)	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 0.0000028 Fish 0.0000008～0.000035 Birds 0.000065～0.00010	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	19/36	19/36	0.00001～0.00009	(0.00001)					
			2023	1/47	1/47	0.0000009	(0.0000004)	51/60	51/60	0.0000002～0.000072	(0.0000002)	Bivalves 1/2 Fish 18/18 Birds 2/2	Bivalves 1/2 Fish 18/18 Birds 2/2	Bivalves 0.0000011 Fish 0.0000006～0.000020 Birds 0.000040～0.00028	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	21/35	21/35	0.00001～0.00005	(0.00001)					
			2024	0/47	0/47	－	(0.0000006)	48/60	48/60	0.0000004～0.000073	(0.0000003)	Bivalves 2/3 Fish 15/16 Birds 2/2	Bivalves 2/3 Fish 15/16 Birds 2/2	Bivalves 0.0000007～0.0000013 Fish 0.0000007～0.000028 Birds 0.000043～0.00030	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	5/35	5/35	0.00002～0.00003	(0.00002)					
852-6	Hexachlorobiphenyls	26601-64-9	2000	28/28	28/28	0.0000024～0.00036	(0.00000003)	36/36	36/36	0.0000086～0.14	(0.00000007)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.00081～0.086	(Bivalves & Fish 0.00000002)	17/17	17/17	0.0036～0.31	(0.0000004)					852-6
			2001	29/29	29/29	0.0000008～0.00024	(0.00000004～0.000002)	39/39	39/39	0.000025～0.15	(0.00000004～0.000002)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.0012～0.14	(Bivalves & Fish 0.00000002～0.0000004)	15/15	15/15	0.0019～0.19	(0.0000004～0.00008)					
			2002	114/114	38/38	0.0000018～0.0013	(0.0000003)	189/189	63/63	0.0000021～0.20	(0.0000005)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000077～0.017 Fish 0.00051～0.10 Birds 0.0026～0.010	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	100/102	34/34	0.00044～0.064	(0.0002)					
			2003	36/36	36/36	0.000021～0.00035	(0.00000009)	186/186	62/62	0.0000078～0.55	(0.0000002)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.00042～0.020 Fish 0.00028～0.037 Birds 0.0040～0.019	(Bivalves 0.0000011) (Fish 0.0000011) (Birds 0.0000011)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.0015～0.36 C.S. 0.00094～0.072	(W.S. 0.000029) (C.S. 0.000029)					
			2004	38/38	38/38	0.000011～0.00087	(0.0000002)	189/189	63/63	0.0000048～0.26	(0.0000002)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.00054～0.035 Fish 0.00035～0.15 Birds 0.0032～0.0057	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0012～0.55 C.S. 0.00059～0.077	(W.S. 0.000077) (C.S. 0.000077)					
			2005	47/47	47/47	0.0000098～0.00042	(0.00000014)	189/189	63/63	0.0000036～0.17	(0.00000014)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00040～0.011 Fish 0.00028～0.14 Birds 0.0032～0.0084	(Bivalves 0.0000016) (Fish 0.0000016) (Birds 0.0000016)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00084～0.17 C.S. 0.00064～0.017	(W.S. 0.0000054) (C.S. 0.0000054)					
			2006	48/48	48/48	0.0000053～0.00030	(0.0000001)	192/192	64/64	0.0000039～0.19	(0.00000009)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00027～0.011 Fish 0.00026～0.075 Birds 0.0031～0.023	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0011～0.13 C.S. 0.00053～0.024	(W.S. 0.00002) (C.S. 0.00002)					
			2007	48/48	48/48	0.000003～0.00026	(0.0000002)	192/192	64/64	0.0000026～0.17	(0.0000001)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00037～0.0089 Fish 0.00025～0.11 Birds 0.0021～0.0065	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00098～0.27 C.S. 0.00068～0.041	(W.S. 0.00001) (C.S. 0.00001)					
			2008	48/48	48/48	0.0000036～0.00046	(0.0000002)	192/192	64/64	0.0000008～0.24	(0.0000001)	Bivalves 31/31 Fish 84/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.00031～0.0090 Fish 0.00044～0.069 Birds 0.0016～0.026	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0012～0.13 C.S. 0.00054～0.037	(W.S. 0.00001) (C.S. 0.00001)					
			2009	49/49	49/49	0.0000021～0.0012	(0.0000002)	192/192	64/64	0.0000058～0.17	(0.0000001)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.00029～0.011 Fish 0.00027～0.063 Birds 0.0021～0.0041	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00085～0.19 C.S. 0.00061～0.040	(W.S. 0.00001) (C.S. 0.00001)					
			2010	49/49	49/49	0.0000030～0.00022	(0.0000009)	56/64	56/64	0.000069～0.15	(0.00006)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.00063～0.0074 Fish 0.00029～0.060 Birds 0.0040～0.0041	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0009～0.15 C.S. 0.0006～0.043	(W.S. 0.0001) (C.S. 0.0001)					
			2011	49/49	49/49	0.0000018～0.00041	(0.0000002)	63/64	63/64	0.0000033～0.11	(0.0000006)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.00039～0.011 Fish 0.00032～0.085 Birds 0.0030	(Bivalves 0.000015) (Fish 0.000015) (Birds 0.000015)	W.S. 35/35 C.S. 37/37	W.S. 35/35 C.S. 37/37	W.S. 0.00067～0.097 C.S. 0.00041～0.042	(W.S. 0.00019) (C.S. 0.00019)					
			2012	48/48	48/48	0.0000023～0.00038	(0.0000003)	63/63	63/63	0.0000049～0.10	(0.0000006)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.00031～0.0056 Fish 0.00025～0.044 Birds 0.0026～0.0032	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00065～0.12 C.S. 0.00046～0.028	(W.S. 0.00021) (C.S. 0.00021)					
			2013	48/48	48/48	0.0000023～0.00022	(0.0000003)	62/62	62/62	0.000006～0.18	(0.000002)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.00028～0.0067 Fish 0.00028～0.043 Birds 0.10～0.23	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00055～0.14 C.S. 0.00049～0.011	(W.S. 0.00003) (C.S. 0.00003)					
			2014	48/48	48/48	0.0000025～0.00030	(0.0000001)	63/63	63/63	0.000006～0.075	(0.000001)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.00026～0.0034 Fish 0.00037～0.049 Birds 0.0062～0.067	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)	36/36	36/36	0.00057～0.21	(0.00008)					
			2015	48/48	48/48	0.0000052～0.00030	(0.0000002)	62/62	62/62	0.000004～0.12	(0.000001)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.00023～0.0025 Fish 0.00037～0.049 Birds 0.0022	(Bivalves 0.0000016) (Fish 0.0000016) (Birds 0.0000016)	35/35	35/35	0.00051～0.065	(0.00012)					
			2016	48/48	48/48	0.0000010～0.00038	(0.0000003)	62/62	62/62	0.0000065～0.10	(0.0000008)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.00017～0.0031 Fish 0.00037～0.042 Birds 0.0046～0.045	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0005～0.054	(0.0001)					
			2017	41/47	41/47	0.000001～0.00013	(0.000001)	61/62	61/62	0.0000061～0.076	(0.0000008)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.00020～0.0046 Fish 0.00025～0.070 Birds 0.0019～0.18	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	37/37	37/37	0.00037～0.078	(0.00008)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2018	47/47	47/47	0.0000010～0.00032	(0.0000003)	56/61	56/61	0.000037～0.076	(0.000021)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.00030～0.0031 Fish 0.00030～0.054 Birds 0.036～0.063	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00028～0.055	(0.00005)					
			2019	40/48	40/48	0.0000010～0.00020	(0.0000009)	61/61	61/61	0.0000037～0.083	(0.0000004)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.00015～0.0048 Fish 0.00042～0.031 Birds 0.099	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.00063～0.079	(0.00005)					
			2020	37/46	37/46	0.000001～0.00019	(0.000001)	58/58	58/58	0.0000037～0.053	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.00020～0.0025 Fish 0.00031～0.022 Birds 0.032	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00069～0.041	(0.00007)					
			2021	45/47	45/47	0.0000006～0.00026	(0.0000005)	60/60	60/60	0.0000077～0.064	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.00021～0.0014 Fish 0.00031～0.041 Birds 0.052～0.10	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	35/35	35/35	0.00046～0.022	(0.00005)					
			2022	48/48	48/48	0.0000005～0.00022	(0.0000005)	61/61	61/61	0.0000044～0.042	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.00011～0.0022 Fish 0.00021～0.051 Birds 0.074～0.092	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	36/36	36/36	0.00056～0.022	(0.00003)					
			2023	47/47	47/47	0.0000004～0.00016	(0.0000004)	60/60	60/60	0.0000030～0.051	(0.0000004)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.00010～0.00083 Fish 0.00030～0.020 Birds 0.028～0.18	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	35/35	35/35	0.00053～0.014	(0.00005)					
			2024	45/47	45/47	0.0000007～0.000099	(0.0000006)	60/60	60/60	0.0000049～0.072	(0.0000003)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.000075～0.0012 Fish 0.00042～0.045 Birds 0.023～0.38	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	26/35	26/35	0.00018～0.011	(0.00004)					
852-6-1	2,3,3',4,4',5-Hexachlorobiphenyl (PCB#156)	38380-08-4	2000	23/28	23/28	0.00000030～0.0000081	(0.0000002)	34/36	34/36	0.0000021～0.0037	(0.0000005)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.0000093～0.0016	(Bivalves & Fish 0.0000008)	16/16	16/16	0.000040～0.0035	(0.00001)					852-6-1
			2001	24/29	24/29	0.0000002～0.0000047	(0.0000002)	39/39	39/39	0.0000006～0.0020	(0.0000002)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.000011～0.0030	(Bivalves & Fish 0.0000002)	15/15	15/15	0.00002～0.0013	(0.00001)					
			2003	36/36	36/36	0.0000004～0.0000051	(0.0000002)	159/186	54/62	0.0000021～0.013	(0.000002)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000052～0.00017 Fish 0.0000044～0.00064 Birds 0.000017～0.00042	(Bivalves 0.00000084) (Fish 0.00000084) (Birds 0.00000084)	W.S. 35/35 C.S. 33/34	W.S. 35/35 C.S. 33/34	W.S. 0.000015～0.0030 C.S. 0.000011～0.0006	(W.S. 0.0000083) (C.S. 0.0000083)					
			2004	33/38	33/38	0.0000003～0.000015	(0.0000003)	188/189	63/63	0.0000002～0.0045	(0.0000002)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.0000068～0.00033 Fish 0.0000044～0.0023 Birds 0.000015～0.00014	(Bivalves 0.0000011) (Fish 0.0000011) (Birds 0.0000011)	W.S. 34/37 C.S. 31/37	W.S. 34/37 C.S. 31/37	W.S. 0.000023～0.0039 C.S. 0.000026～0.00069	(W.S. 0.000021) (C.S. 0.000021)					
			2005	47/47	47/47	0.0000002～0.0000058	(0.0000002)	188/189	63/63	0.0000002～0.0024	(0.0000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000084～0.00011 Fish 0.0000020～0.0024 Birds 0.000016～0.00022	(Bivalves 0.0000010) (Fish 0.0000010) (Birds 0.0000010)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0000060～0.0016 C.S. 0.000010～0.00056	(W.S. 0.0000014) (C.S. 0.0000014)					
			2006	36/48	36/48	0.0000003～0.0000072	(0.0000003)	188/192	64/64	0.0000002～0.0053	(0.0000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000005～0.00011 Fish 0.000002～0.0013 Birds 0.000015～0.00041	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/37 C.S. 35/37	W.S. 36/37 C.S. 35/37	W.S. 0.000015～0.00061 C.S. 0.000008～0.00022	(W.S. 0.000008) (C.S. 0.000008)					
			2007	40/48	40/48	0.0000002～0.0000055	(0.0000002)	188/192	64/64	0.0000003～0.0029	(0.0000003)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000051～0.000086 Fish 0.0000028～0.0016 Birds 0.000012～0.00014	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.000010～0.0019 C.S. 0.000008～0.00031	(W.S. 0.000005) (C.S. 0.000005)					
			2008	38/48	38/48	0.0000002～0.0000067	(0.0000002)	192/192	64/64	0.0000003～0.0033	(0.0000001)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.0000042～0.000095 Fish 0.0000036～0.0013 Birds 0.0000096～0.00082	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 37/37 C.S. 36/37	W.S. 37/37 C.S. 36/37	W.S. 0.000012～0.00090 C.S. 0.000007～0.00042	(W.S. 0.000007) (C.S. 0.000007)					
			2009	42/49	42/49	0.0000002～0.0000096	(0.0000002)	191/192	64/64	0.0000002～0.0044	(0.0000001)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.0000039～0.00012 Fish 0.0000029～0.00099 Birds 0.000014～0.00012	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	W.S. 36/37 C.S. 36/37	W.S. 36/37 C.S. 36/37	W.S. 0.000015～0.0015 C.S. 0.000009～0.00036	(W.S. 0.000009) (C.S. 0.000009)					
			2010	43/49	43/49	0.00000009～0.0000027	(0.00000009)	59/64	59/64	0.000001～0.0025	(0.000001)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000006～0.000059 Fish 0.000005～0.00073 Birds 0.000019～0.000086	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000010～0.0014 C.S. 0.000007～0.00072	(W.S. 0.000007) (C.S. 0.000007)					
			2011	35/49	35/49	0.0000002～0.0000047	(0.0000002)	62/64	62/64	0.0000005～0.0029	(0.0000003)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.0000067～0.00011 Fish 0.0000027～0.00098 Birds 0.000019	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 33/35 C.S. 33/37	W.S. 33/35 C.S. 33/37	W.S. 0.00001～0.00079 C.S. 0.00001～0.00059	(W.S. 0.00001) (C.S. 0.00001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2012	28/48	28/48	0.0000004～ 0.0000073	(0.0000004)	56/63	56/63	0.0000008～ 0.0024	(0.0000008)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000068～ 0.000055 Fish 0.0000024～ 0.00057 Birds 0.000016～	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	W.S. 35/36 C.S. 31/36	W.S. 35/36 C.S. 31/36	W.S. 0.000008 ～0.0010 C.S. 0.000008 ～0.00025	(W.S. 0.000007) (C.S. 0.000007)					
			2013	47/48	47/48	0.0000001～ 0.0000059	(0.0000001)	62/62	62/62	0.0000002～ 0.0032	(0.0000001)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000048～ 0.000057 Fish 0.0000029～ 0.00083 Birds 0.0034～0.0081	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 36/36 C.S. 34/36	W.S. 36/36 C.S. 34/36	W.S. 0.000007 ～0.0012 C.S. 0.000008 ～0.000093	(W.S. 0.000007) (C.S. 0.000007)					
			2014	45/48	45/48	0.00000009～ 0.0000069	(0.00000005)	63/63	63/63	0.00000022～ 0.0018	(0.00000007)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000049～ 0.000038 Fish 0.0000057～ 0.00071 Birds 0.000068～0.0024	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	32/36	32/36	0.00001～ 0.0015	(0.00001)					
			2015	38/48	38/48	0.0000003～ 0.0000066	(0.0000003)	56/62	56/62	0.0000012～ 0.0033	(0.0000009)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.000004～ 0.000028 Fish 0.0000037～ 0.00080 Birds 0.00010	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	27/35	27/35	0.00002～ 0.00034	(0.00002)					
			2016	33/48	33/48	0.0000002～ 0.0000072	(0.0000002)	61/62	61/62	0.0000004～ 0.0027	(0.0000004)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000030～ 0.000033 Fish 0.0000043～ 0.00058 Birds 0.00028～0.0014	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	30/37	30/37	0.00002～ 0.00041	(0.00002)					
			2017	25/47	25/47	0.0000003～ 0.0000027	(0.0000003)	62/62	62/62	0.00000013～ 0.0018	(0.00000009)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000034～ 0.000054 Fish 0.0000025～ 0.00075 Birds 0.000054～ 0.0067	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	31/37	31/37	0.00002～ 0.00083	(0.00002)					
			2018	41/47	41/47	0.0000001～ 0.0000031	(0.0000001)	60/61	60/61	0.0000003～ 0.0021	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000038～ 0.000037 Fish 0.0000024～ 0.00082 Birds 0.0013～0.0028	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	37/37	37/37	0.00001～ 0.00037	(0.00001)					
			2019	11/48	11/48	0.0000011～ 0.0000049	(0.0000009)	59/61	59/61	0.0000004～0.002	(0.0000004)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.0000027～ 0.000078 Fish 0.0000083～ 0.00058 Birds 0.0027	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	29/36	29/36	0.00002～ 0.00051	(0.00002)					
			2020	10/46	10/46	0.000001～0.000006	(0.000001)	56/58	56/58	0.0000004～ 0.0014	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.0000028～ 0.000026 Fish 0.0000053～ 0.00031 Birds 0.0010	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	37/37	37/37	0.00001～ 0.00042	(0.00001)					
			2021	14/47	14/47	0.0000006～ 0.0000059	(0.0000005)	60/60	60/60	0.0000004～ 0.0016	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000023～ 0.000011 Fish 0.0000035～ 0.00048 Birds 0.0018～0.0024	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	29/35	29/35	0.00002～ 0.00022	(0.00002)					
			2022	20/48	20/48	0.0000004～ 0.0000044	(0.0000004)	58/61	58/61	0.0000008～ 0.0012	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000015～ 0.000020 Fish 0.0000039～ 0.00074 Birds 0.0026～0.0039	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	34/36	34/36	0.00001～ 0.00019	(0.00001)					
			2023	25/47	25/47	0.0000004～ 0.0000025	(0.0000004)	58/60	58/60	0.0000005～ 0.0011	(0.0000004)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.0000018～ 0.0000057 Fish 0.0000027～ 0.00033 Birds 0.0010～0.0083	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	22/35	22/35	0.00002～ 0.00017	(0.00002)					
			2024	19/47	19/47	0.0000006～ 0.0000025	(0.0000006)	58/60	58/60	0.0000003～ 0.0016	(0.0000003)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.0000014～ 0.000012 Fish 0.0000074～ 0.00066 Birds 0.00088～0.013	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	14/35	14/35	0.00003～ 0.00021	(0.00003)					
852-6-2	2,3,3',4,4',5'-Hexachlorobiphenyl (PCB#157)	69782-90-7	2000	17/28	17/28	0.00000040～ 0.0000030	(0.0000005)	34/36	34/36	0.0000007～ 0.0013	(0.0000009)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.0000019～0.00078	(Bivalves & Fish 0.0000003)	15/16	15/16	0.000010～ 0.0011	(0.000005)					852-6-2
			2001	18/29	18/29	0.0000004～ 0.0000022	(0.0000004)	37/39	37/39	0.0000005～ 0.0020	(0.0000004)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.0000065～0.0011	(Bivalves & Fish 0.0000002)	14/15	14/15	0.000010～ 0.00060	(0.000005)					
			2003	22/36	22/36	0.0000002～ 0.0000018	(0.0000002)	164/186	56/62	0.0000004～ 0.0027	(0.0000004)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000016～ 0.000055 Fish 0.0000012～ 0.00015 Birds 0.0000044～ 0.00012	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 34/35 C.S. 33/34	W.S. 34/35 C.S. 33/34	W.S. 0.0000082 ～0.00061 C.S. 0.0000097 ～0.00013	(W.S. 0.0000077) (C.S. 0.0000077)					
			2004	17/38	17/38	0.0000003～ 0.0000038	(0.0000003)	164/189	57/63	0.0000003～ 0.00090	(0.0000003)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.0000025～ 0.00011 Fish 0.0000017～ 0.00055 Birds 0.0000025～ 0.000035	(Bivalves 0.00000086) (Fish 0.00000086) (Birds 0.00000086)	W.S. 30/37 C.S. 25/37	W.S. 30/37 C.S. 25/37	W.S. 0.000011 ～0.00074 C.S. 0.000010 ～0.00027	(W.S. 0.0000093) (C.S. 0.0000093)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2005	25/47	25/47	0.00000007～ 0.0000014	(0.0000002)	175/189	60/63	0.0000002～ 0.00051	(0.0000002)	Bivalves 31/31 Fish 78/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000027～ 0.000031 Fish 0.00000088～ 0.00053 Birds 0.0000032～ 0.000051	(Bivalves 0.00000073) (Fish 0.00000073) (Birds 0.00000073)	W.S. 35/37 C.S. 37/37	W.S. 35/37 C.S. 37/37	W.S. 0.0000020 ～0.00032 C.S. 0.0000029 ～0.00015	(W.S. 0.0000020) (C.S. 0.0000020)					
			2006	12/48	12/48	0.0000004～ 0.0000018	(0.0000004)	177/192	62/64	0.0000002～ 0.0013	(0.0000002)	Bivalves 31/31 Fish 79/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000015～ 0.000031 Fish 0.0000009～ 0.00027 Birds 0.0000030～ 0.00010	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 27/37 C.S. 24/37	W.S. 27/37 C.S. 24/37	W.S. 0.000006 ～0.00015 C.S. 0.000006 ～0.000056	(W.S. 0.000006) (C.S. 0.000006)					
			2007	13/48	13/48	0.0000004～ 0.0000015	(0.0000004)	177/192	62/64	0.0000002～ 0.00061	(0.0000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000018～ 0.000025 Fish 0.0000008～ 0.00033 Birds 0.0000023～ 0.000038	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 30/36 C.S. 22/36	W.S. 30/36 C.S. 22/36	W.S. 0.000012 ～0.00037 C.S. 0.000009 ～0.000087	(W.S. 0.000008) (C.S. 0.000008)					
			2008	22/48	22/48	0.00000007～ 0.0000016	(0.0000002)	185/192	62/64	0.0000001～ 0.00049	(0.0000001)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.0000014～ 0.000027 Fish 0.0000011～ 0.00029 Birds 0.0000019～ 0.00019	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 32/37 C.S. 26/37	W.S. 32/37 C.S. 26/37	W.S. 0.000008 ～0.00017 C.S. 0.000008 ～0.000092	(W.S. 0.000007) (C.S. 0.000007)					
			2009	15/49	15/49	0.00000006～ 0.0000019	(0.0000003)	175/192	61/64	0.0000002～ 0.00081	(0.0000002)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.0000012～ 0.000034 Fish 0.0000008～ 0.00021 Birds 0.0000027～ 0.000029	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	W.S. 29/37 C.S. 18/37	W.S. 29/37 C.S. 18/37	W.S. 0.00001～ 0.00029 C.S. 0.00001～ 0.00008	(W.S. 0.00001) (C.S. 0.00001)					
			2010	36/49	36/49	0.000000078～ 0.00000090	(0.0000001)	62/64	62/64	0.0000002～ 0.00042	(0.0000002)	Bivalves 6/6 Fish 17/18 Birds 2/2	Bivalves 6/6 Fish 17/18 Birds 2/2	Bivalves 0.000003～ 0.000027 Fish 0.000002～0.00034 Birds 0.000003～ 0.000023	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 28/37 C.S. 22/37	W.S. 28/37 C.S. 22/37	W.S. 0.00001～ 0.00027 C.S. 0.00001～ 0.00016	(W.S. 0.00001) (C.S. 0.00001)					
			2011	14/49	14/49	0.00000006～ 0.0000012	(0.0000002)	55/64	55/64	0.0000004～ 0.00066	(0.0000003)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.0000021～ 0.000031 Fish 0.0000009～ 0.00019 Birds 0.0000040	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 29/35 C.S. 23/37	W.S. 29/35 C.S. 23/37	W.S. 0.000008 ～0.00016 C.S. 0.000007 ～0.00015	(W.S. 0.000007) (C.S. 0.000007)					
			2012	8/48	8/48	0.0000005～ 0.0000018	(0.0000002)	51/63	51/63	0.0000009～ 0.00056	(0.0000008)	Bivalves 5/5 Fish 18/19 Birds 2/2	Bivalves 5/5 Fish 18/19 Birds 2/2	Bivalves 0.0000020～ 0.000015 Fish 0.0000015～ 0.00014 Birds 0.0000030～ 0.000017	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 29/36 C.S. 17/36	W.S. 29/36 C.S. 17/36	W.S. 0.000008 ～0.00022 C.S. 0.000006 ～0.000053	(W.S. 0.000006) (C.S. 0.000006)					
			2013	32/48	32/48	0.00000008～ 0.0000017	(0.00000008)	61/62	61/62	0.00000010～ 0.0013	(0.00000009)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000018～ 0.000018 Fish 0.0000010～ 0.00016 Birds 0.00073～0.0018	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 31/36 C.S. 22/36	W.S. 31/36 C.S. 22/36	W.S. 0.000007 ～0.00023 C.S. 0.000006 ～0.000026	(W.S. 0.000006) (C.S. 0.000006)					
			2014	29/48	29/48	0.00000007～ 0.0000014	(0.00000005)	59/63	59/63	0.0000001～ 0.00036	(0.0000001)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000016～ 0.000010 Fish 0.0000015～ 0.00017 Birds 0.000019～ 0.00053	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	28/36	28/36	0.000009～ 0.00035	(0.000009)					
			2015	9/48	9/48	0.0000003～ 0.0000018	(0.0000003)	49/62	49/62	0.000002～ 0.00072	(0.000001)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.0000015～ 0.0000074 Fish 0.0000011～ 0.00015 Birds 0.000025	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	18/35	18/35	0.00001～ 0.00006	(0.00001)					
			2016	12/48	12/48	0.0000002～ 0.0000013	(0.0000002)	53/62	53/62	0.0000003～ 0.00054	(0.0000003)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000010～ 0.0000088 Fish 0.0000014～ 0.00014 Birds 0.000064～ 0.00034	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	28/37	28/37	0.000009～ 0.00019	(0.000008)					
			2017	11/47	11/47	0.0000002～ 0.0000007	(0.0000002)	59/62	59/62	0.00000013～ 0.00034	(0.00000009)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000001～ 0.000015 Fish 0.000001～0.00018 Birds 0.000015～0.0015	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	31/37	31/37	0.00001～ 0.00020	(0.00001)					
			2018	16/47	16/47	0.0000002～ 0.0000007	(0.0000002)	57/61	57/61	0.0000003～ 0.00046	(0.0000001)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000012～ 0.0000090 Fish 0.0000010～ 0.00018 Birds 0.00028～0.00066	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	23/37	23/37	0.000008～ 0.00019	(0.000008)					
			2019	1/48	1/48	0.0000012	(0.0000009)	49/61	49/61	0.0000004～ 0.00049	(0.0000004)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.0000009～ 0.000021 Fish 0.0000022～ 0.00013 Birds 0.00071	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	29/36	29/36	0.00001～ 0.00035	(0.00001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2020	2/46	2/46	0.000001～0.000002	(0.000001)	51/58	51/58	0.0000003～0.00034	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.0000009～0.0000089 Fish 0.0000018～0.000077 Birds 0.00025	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	26/37	26/37	0.000008～0.00011	(0.000008)					
			2021	4/47	4/47	0.0000005～0.0000014	(0.0000005)	53/60	53/60	0.0000006～0.00035	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000010～0.0000044 Fish 0.0000013～0.00011 Birds 0.00047～0.00059	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	26/35	26/35	0.00001～0.00010	(0.00001)					
			2022	6/48	6/48	0.0000004～0.0000012	(0.0000004)	57/61	57/61	0.0000003～0.00026	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000006～0.0000063 Fish 0.0000013～0.00017 Birds 0.00065～0.00096	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	25/36	25/36	0.00001～0.00009	(0.00001)					
			2023	7/47	7/47	0.0000004～0.0000007	(0.0000004)	53/60	53/60	0.0000005～0.00024	(0.0000004)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.0000006～0.0000022 Fish 0.0000010～0.000074 Birds 0.00027～0.0019	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	24/35	24/35	0.00001～0.00005	(0.00001)					
			2024	2/47	2/47	0.0000007～0.0000008	(0.0000006)	55/60	55/60	0.0000004～0.00036	(0.0000003)	Bivalves 2/3 Fish 16/16 Birds 2/2	Bivalves 2/3 Fish 16/16 Birds 2/2	Bivalves 0.0000009～0.0000039 Fish 0.0000023～0.00014 Birds 0.00023～0.0031	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	6/35	6/35	0.00002～0.00005	(0.00002)					
852-6-3	2,3',4,4',5,5'-Hexachlorobiphenyl (PCB#167)	52663-72-6	2000	21/28	21/28	0.00000030～0.0000036	(0.0000002)	35/36	35/36	0.0000010～0.0016	(0.0000003)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.000015～0.0011	(Bivalves & Fish 0.00000006)	15/15	15/15	0.000020～0.0018	(0.00001)					852-6-3
			2001	22/29	22/29	0.0000003～0.0000027	(0.0000002)	39/39	39/39	0.0000003～0.0014	(0.0000002)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.000011～0.0017	(Bivalves & Fish 0.0000001)	15/15	15/15	0.00001～0.00060	(0.00001)					
			2003	36/36	36/36	0.00000020～0.0000028	(0.00000009)	176/186	60/62	0.00000020～0.0047	(0.0000002)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000046～0.00014 Fish 0.0000023～0.00038 Birds 0.0000025～0.00024	(Bivalves 0.00000071) (Fish 0.00000071) (Birds 0.00000071)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.0000087～0.0014 C.S. 0.0000083～0.00029	(W.S. 0.000007) (C.S. 0.000007)					
			2004	29/38	29/38	0.0000002～0.0000060	(0.0000002)	173/189	60/63	0.0000002～0.0021	(0.0000002)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.0000054～0.00024 Fish 0.0000034～0.0013 Birds 0.0000014～0.000068	(Bivalves 0.0000013) (Fish 0.0000013) (Birds 0.0000013)	W.S. 28/37 C.S. 20/37	W.S. 28/37 C.S. 20/37	W.S. 0.0000024～0.0018 C.S. 0.0000027～0.00036	(W.S. 0.000023) (C.S. 0.000023)					
			2005	45/47	45/47	0.0000001～0.0000025	(0.0000001)	185/189	62/63	0.0000001～0.0011	(0.0000001)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000051～0.000078 Fish 0.0000015～0.0013 Birds 0.0000015～0.000099	(Bivalves 0.0000014) (Fish 0.0000014) (Birds 0.0000014)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.0000030～0.00073 C.S. 0.0000045～0.00020	(W.S. 0.0000010) (C.S. 0.0000010)					
			2006	27/48	27/48	0.000000023～0.0000036	(0.0000003)	182/192	63/64	0.0000002～0.0022	(0.0000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000003～0.000080 Fish 0.000002～0.00068 Birds 0.000002～0.00023	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/37 C.S. 36/37	W.S. 36/37 C.S. 36/37	W.S. 0.000008～0.00030 C.S. 0.000004～0.000091	(W.S. 0.000004) (C.S. 0.000004)					
			2007	15/48	15/48	0.0000005～0.0000026	(0.0000005)	177/192	62/64	0.0000003～0.0012	(0.0000003)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000038～0.000062 Fish 0.0000018～0.00076 Birds 0.0000015～0.000078	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 33/36 C.S. 34/36	W.S. 33/36 C.S. 34/36	W.S. 0.000009～0.00096 C.S. 0.000005～0.00015	(W.S. 0.000005) (C.S. 0.000005)					
			2008	28/48	28/48	0.00000013～0.0000029	(0.0000002)	191/192	64/64	0.0000001～0.0016	(0.0000001)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000003～0.000073 Fish 0.000003～0.00068 Birds 0.000001～0.00038	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 34/37 C.S. 27/37	W.S. 34/37 C.S. 27/37	W.S. 0.000008～0.00045 C.S. 0.000009～0.00019	(W.S. 0.000008) (C.S. 0.000008)					
			2009	29/49	29/49	0.00000011～0.0000044	(0.0000002)	189/192	64/64	0.0000002～0.0018	(0.0000001)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.0000035～0.000087 Fish 0.0000022～0.00045 Birds 0.0000016～0.000056	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	W.S. 35/37 C.S. 27/37	W.S. 35/37 C.S. 27/37	W.S. 0.000009～0.00074 C.S. 0.000008～0.00019	(W.S. 0.000008) (C.S. 0.000008)					
			2010	43/49	43/49	0.0000001～0.0000018	(0.0000001)	60/64	60/64	0.0000005～0.00092	(0.0000004)	Bivalves 6/6 Fish 18/18 Birds 1/2	Bivalves 6/6 Fish 18/18 Birds 1/2	Bivalves 0.000006～0.000056 Fish 0.000003～0.00040 Birds 0.000053	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 32/37 C.S. 28/37	W.S. 32/37 C.S. 28/37	W.S. 0.00001～0.00067 C.S. 0.00001～0.00030	(W.S. 0.00001) (C.S. 0.00001)					
			2011	23/49	23/49	0.00000012～0.0000022	(0.0000002)	58/64	58/64	0.0000004～0.0010	(0.0000004)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.0000041～0.000079 Fish 0.0000022～0.00052 Birds 0.0000021	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 29/35 C.S. 24/37	W.S. 29/35 C.S. 24/37	W.S. 0.00002～0.00038 C.S. 0.00001～0.00021	(W.S. 0.00001) (C.S. 0.00001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2012	18/48	18/48	0.0000004～0.0000034	(0.0000002)	54/63	54/63	0.0000006～0.00098	(0.0000006)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000037～0.000042 Fish 0.0000019～0.00033 Birds 0.0000016～0.000034	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 30/36 C.S. 21/36	W.S. 30/36 C.S. 21/36	W.S. 0.000009～0.00051 C.S. 0.000010～0.00013	(W.S. 0.000009) (C.S. 0.000009)					
			2013	41/48	41/48	0.0000001～0.0000026	(0.0000001)	61/62	61/62	0.0000002～0.0016	(0.0000001)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000032～0.000051 Fish 0.0000024～0.00039 Birds 0.0016～0.0043	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	W.S. 32/36 C.S. 26/36	W.S. 32/36 C.S. 26/36	W.S. 0.000008～0.00059 C.S. 0.000008～0.000049	(W.S. 0.000007) (C.S. 0.000007)					
			2014	36/48	36/48	0.00000009～0.0000027	(0.00000009)	61/63	61/63	0.00000015～0.00089	(0.00000009)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000033～0.000032 Fish 0.0000040～0.00039 Birds 0.000055～0.0012	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	31/36	31/36	0.000009～0.00074	(0.000007)					
			2015	19/48	19/48	0.0000003～0.0000030	(0.0000003)	53/62	53/62	0.0000010～0.0013	(0.0000009)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.0000029～0.000022 Fish 0.0000029～0.00041 Birds 0.000043	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	26/35	26/35	0.000010～0.00015	(0.000008)					
			2016	29/48	29/48	0.0000001～0.0000025	(0.0000001)	57/62	57/62	0.0000004～0.0010	(0.0000004)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000021～0.000027 Fish 0.0000035～0.00030 Birds 0.00011～0.00068	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	32/37	32/37	0.000009～0.00021	(0.000008)					
			2017	6/47	6/47	0.0000008～0.0000010	(0.0000008)	62/62	62/62	0.00000009～0.00068	(0.00000008)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000021～0.000039 Fish 0.0000018～0.00041 Birds 0.000028～0.0032	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	32/37	32/37	0.000010～0.00036	(0.000009)					
			2018	24/47	24/47	0.0000002～0.0000016	(0.0000002)	57/61	57/61	0.0000003～0.00082	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000029～0.000027 Fish 0.0000019～0.00040 Birds 0.00057～0.0015	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	27/37	27/37	0.000009～0.00014	(0.000009)					
			2019	3/48	3/48	0.0000010～0.0000021	(0.0000009)	53/61	53/61	0.0000004～0.00077	(0.0000004)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.0000017～0.000046 Fish 0.0000032～0.00027 Birds 0.0016	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	32/36	32/36	0.00001～0.00022	(0.00001)					
			2020	4/46	4/46	0.000001～0.000003	(0.000001)	54/58	54/58	0.0000004～0.00057	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.0000021～0.000024 Fish 0.0000040～0.00018 Birds 0.00049	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	29/37	29/37	0.000008～0.00019	(0.000008)					
			2021	10/47	10/47	0.0000006～0.0000028	(0.0000005)	56/60	56/60	0.0000003～0.00071	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000017～0.000012 Fish 0.0000021～0.00025 Birds 0.00090～0.0014	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	29/35	29/35	0.00001～0.00014	(0.00001)					
			2022	9/48	9/48	0.0000004～0.0000022	(0.0000004)	58/61	58/61	0.0000004～0.00044	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000011～0.000019 Fish 0.0000028～0.00046 Birds 0.0014～0.0018	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	30/36	30/36	0.00001～0.00007	(0.00001)					
			2023	15/47	15/47	0.0000004～0.0000012	(0.0000004)	55/60	55/60	0.0000004～0.00048	(0.0000004)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.0000009～0.0000084 Fish 0.0000023～0.00018 Birds 0.00051～0.0036	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	14/35	14/35	0.00002～0.00008	(0.00002)					
			2024	4/47	4/47	0.0000009～0.0000012	(0.0000006)	58/60	58/60	0.0000003～0.00064	(0.0000003)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.0000008～0.000011 Fish 0.0000041～0.00041 Birds 0.00045～0.0064	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	25/35	25/35	0.00001～0.00007	(0.00001)					
852-6-4	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB#169)	32774-16-6	1990					2/3	2/3	0.000005～0.000006	(0.000001)	Fish 2/3	Fish 2/3	Fish 0.000005～0.000032	(Fish 0.000001)									852-6-4
			1991					2/3	2/3	0.000002～0.000008	(0.000001)	Fish 1/3	Fish 1/3	Fish 0.000002	(Fish 0.000001)									
			1992					2/3	2/3	0.000010～0.000012	(0.000001)	Fish 2/3	Fish 2/3	Fish 0.000002～0.000004	(Fish 0.000001)									
			1993					2/3	2/3	0.000003～0.000014	(0.000001)	Fish 2/3	Fish 2/3	Fish 0.000002～0.000009	(Fish 0.000001)									
			1994					2/3	2/3	0.000010～0.000011	(0.000001)	Fish 2/3	Fish 2/3	Fish 0.000008～0.000019	(Fish 0.000001)									
			1995					2/3	2/3	0.000002～0.000011	(0.000001)	Fish 2/3	Fish 2/3	Fish 0.000010～0.000011	(Fish 0.000001)									
			1996					18/36	18/36	0.000001～0.000009	(0.000001)	Fish 18/35	Fish 18/35	Fish 0.000001～0.000012	(Fish 0.000001)									
			1997					25/40	25/40	0.000001～0.000013	(0.000001)	Bivalves & Fish 21/39	Fish 21/39	Fish 0.000001～0.000006	(Fish 0.000001)									
			2000	1/28	1/28	0.00000030	(0.0000002)	24/36	24/36	0.00000040～0.00018	(0.0000004)	Bivalves & Fish 15/35	Bivalves & Fish 15/35	Bivalves & Fish 0.0000021～0.000088	(Bivalves & Fish 0.0000009)	16/16	16/16	0.0000050～0.00006	(0.000002)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2001	2/28	2/28	0.0000003	(0.0000002)	17/38	17/38	0.0000003～0.000014	(0.0000002)	Bivalves & Fish 3/35	Bivalves & Fish 3/35	Bivalves & Fish 0.00000091～0.0000012	(Bivalves & Fish 0.00000008)	14/15	14/15	0.000002～0.00062	(0.000002)					
			2003	1/36	1/36	0.0000002	(0.0000002)	122/186	47/62	0.0000004～0.00027	(0.0000004)	Bivalves 6/30 Fish 18/70 Birds 10/10	Bivalves 2/6 Fish 7/14 Birds 2/2	Bivalves 0.0000016～0.0000030 Fish 0.0000014～0.0000040 Birds 0.0000036～0.0000069	(Bivalves 0.0000014) (Fish 0.0000014) (Birds 0.0000014)	W.S. 22/35 C.S. 24/34	W.S. 22/35 C.S. 24/34	W.S. 0.000010～0.000028 C.S. 0.000011～0.000041	(W.S. 0.0000098) (C.S. 0.0000098)					
			2004	2/38	2/38	0.0000003～0.0000004	(0.0000002)	106/189	41/63	0.0000002～0.000039	(0.0000002)	Bivalves 8/31 Fish 25/70 Birds 10/10	Bivalves 3/7 Fish 7/14 Birds 2/2	Bivalves 0.0000012～0.0000057 Fish 0.00000095～0.000015 Birds 0.0000019～0.0000052	(Bivalves 0.00000093) (Fish 0.00000093) (Birds 0.00000093)	W.S. 2/37 C.S. 9/37	W.S. 2/37 C.S. 9/37	W.S. 0.000016～0.000021 C.S. 0.000013～0.00021	(W.S. 0.000011) (C.S. 0.000011)					
			2005	1/47	1/47	0.0000001	(0.0000001)	133/189	48/63	0.0000003～0.00032	(0.0000003)	Bivalves 6/31 Fish 33/80 Birds 10/10	Bivalves 2/7 Fish 8/16 Birds 2/2	Bivalves 0.00000098～0.0000012 Fish 0.00000084～0.0000072 Birds 0.0000018～0.0000035	(Bivalves 0.00000084) (Fish 0.00000084) (Birds 0.00000084)	W.S. 25/37 C.S. 31/37	W.S. 25/37 C.S. 31/37	W.S. 0.0000023～0.000034 C.S. 0.0000020～0.000022	(W.S. 0.0000020) (C.S. 0.0000020)					
			2006	11/48	11/48	0.000000010～0.0000003	(0.0000001)	146/192	53/64	0.0000002～0.000032	(0.0000002)	Bivalves 13/31 Fish 37/80 Birds 10/10	Bivalves 4/7 Fish 9/16 Birds 2/2	Bivalves 0.000001～0.000001 Fish 0.000001～0.000004 Birds 0.000002～0.000005	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 13/37 C.S. 13/37	W.S. 13/37 C.S. 13/37	W.S. 0.000003～0.000015 C.S. 0.000003～0.000022	(W.S. 0.000003) (C.S. 0.000003)					
			2007	0/48	0/48	－	(0.0000004)	121/192	45/64	0.0000003～0.000099	(0.0000003)	Bivalves 8/31 Fish 26/80 Birds 10/10	Bivalves 3/7 Fish 6/16 Birds 2/2	Bivalves 0.0000007～0.0000010 Fish 0.0000007～0.0000027 Birds 0.0000016～0.0000025	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 6/36 C.S. 10/36	W.S. 6/36 C.S. 10/36	W.S. 0.000006～0.000022 C.S. 0.000006～0.000021	(W.S. 0.000006) (C.S. 0.000006)					
			2008	0/48	0/48	－	(0.0000002)	135/192	52/64	0.0000001～0.000067	(0.0000001)	Bivalves 5/31 Fish 37/85 Birds 10/10	Bivalves 3/7 Fish 10/17 Birds 2/2	Bivalves 0.0000006～0.0000008 Fish 0.0000006～0.0000033 Birds 0.0000013～0.0000042	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 4/37 C.S. 6/37	W.S. 4/37 C.S. 6/37	W.S. 0.000008～0.000014 C.S. 0.000009～0.000016	(W.S. 0.000008) (C.S. 0.000008)					
			2009	0/49	0/49	－	(0.0000002)	138/192	55/64	0.0000001～0.000042	(0.0000001)	Bivalves 7/31 Fish 30/90 Birds 10/10	Bivalves 3/7 Fish 9/18 Birds 2/2	Bivalves 0.0000007～0.0000011 Fish 0.0000007～0.0000025 Birds 0.0000009～0.0000023	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 2/37 C.S. 9/37	W.S. 2/37 C.S. 9/37	W.S. 0.000008～0.000010 C.S. 0.000008～0.000020	(W.S. 0.000008) (C.S. 0.000008)					
			2010	1/49	1/49	0.000000006	(0.00000008)	55/64	55/64	0.0000001～0.0000094	(0.0000001)	Bivalves 0/6 Fish 2/18 Birds 2/2	Bivalves 0/6 Fish 2/18 Birds 2/2	Bivalves － Fish 0.000003～0.000007 Birds 0.000003～0.000004	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 0/37 C.S. 4/37	W.S. 0/37 C.S. 4/37	W.S. － C.S. 0.00001～0.00003	(W.S. 0.00001) (C.S. 0.00001)					
			2011	2/49	2/49	0.00000009～0.00000015	(0.00000009)	37/64	37/64	0.0000004～0.000045	(0.0000003)	Bivalves 2/4 Fish 7/18 Birds 1/1	Bivalves 2/4 Fish 7/18 Birds 1/1	Bivalves 0.0000009 Fish 0.0000008～0.0000036 Birds 0.0000023	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 1/35 C.S. 3/37	W.S. 1/35 C.S. 3/37	W.S. 0.000012 C.S. 0.000010～0.000012	(W.S. 0.000009) (C.S. 0.000009)					
			2012	0/48	0/48	－	(0.0000002)	24/63	24/63	0.0000008～0.0000079	(0.0000008)	Bivalves 1/5 Fish 10/19 Birds 2/2	Bivalves 1/5 Fish 10/19 Birds 2/2	Bivalves 0.0000006 Fish 0.0000007～0.0000027 Birds 0.0000011～0.0000018	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 4/36 C.S. 3/36	W.S. 4/36 C.S. 3/36	W.S. 0.000007～0.000010 C.S. 0.000006～0.000009	(W.S. 0.000006) (C.S. 0.000006)					
			2013	1/48	1/48	0.0000003	(0.0000001)	44/62	44/62	0.00000014～0.000069	(0.00000007)	Bivalves 1/5 Fish 11/19 Birds 2/2	Bivalves 1/5 Fish 11/19 Birds 2/2	Bivalves 0.0000008 Fish 0.0000007～0.0000028 Birds 0.000024～0.000035	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 2/36 C.S. 7/36	W.S. 2/36 C.S. 7/36	W.S. 0.000007～0.000009 C.S. 0.000006～0.000009	(W.S. 0.000006) (C.S. 0.000006)					
			2014	3/48	3/48	0.00000006～0.00000031	(0.00000006)	50/63	50/63	0.0000001～0.00022	(0.0000001)	Bivalves 0/3 Fish 8/19 Birds 1/2	Bivalves 0/3 Fish 8/19 Birds 1/2	Bivalves － Fish 0.0000009～0.0000050 Birds 0.000016	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	8/36	8/36	0.000006～0.000013	(0.000005)					
			2015	0/48	0/48	－	(0.0000002)	18/62	18/62	0.000001～0.000011	(0.000001)	Bivalves 0/3 Fish 5/19 Birds 0/1	Bivalves 0/3 Fish 5/19 Birds 0/1	Bivalves － Fish 0.0000007～0.0000023 Birds －	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	1/35	1/35	0.000033	(0.000009)					
			2016	0/48	0/48	－	(0.0000003)	34/62	34/62	0.0000005～0.000064	(0.0000004)	Bivalves 1/3 Fish 6/19 Birds 2/2	Bivalves 1/3 Fish 6/19 Birds 2/2	Bivalves 0.0000007 Fish 0.0000007～0.0000032 Birds 0.0000010～0.0000091	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	0/37	0/37	－	(0.000009)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2017	0/47	0/47	—	(0.0000005)	29/62	29/62	0.0000001～0.000027	(0.0000001)	Bivalves 1/3 Fish 8/19 Birds 2/2	Bivalves 1/3 Fish 8/19 Birds 2/2	Bivalves 0.0000009 Fish 0.0000008～0.0000036 Birds 0.0000010～0.000031	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	1/37	1/37	0.000008	(0.000008)					
			2018	2/47	2/47	0.0000002～0.0000003	(0.0000002)	16/61	16/61	0.000003～0.00013	(0.000003)	Bivalves 0/3 Fish 4/18 Birds 2/2	Bivalves 0/3 Fish 4/18 Birds 2/2	Bivalves — Fish 0.0000010～0.0000018 Birds 0.0000044～0.000030	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	1/37	1/37	0.000010	(0.000008)					
			2019	0/48	0/48	—	(0.0000009)	41/61	41/61	0.0000004～0.00018	(0.0000004)	Bivalves 0/3 Fish 6/16 Birds 1/1	Bivalves 0/3 Fish 6/16 Birds 1/1	Bivalves — Fish 0.0000008～0.0000020 Birds 0.000044	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	3/36	3/36	0.00001～0.00002	(0.00001)					
			2020	0/46	0/46	—	(0.000001)	35/58	35/58	0.0000004～0.00010	(0.0000003)	Bivalves 0/3 Fish 4/18 Birds 0/1	Bivalves 0/3 Fish 4/18 Birds 0/1	Bivalves — Fish 0.0000008～0.0000063 Birds —	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	1/37	1/37	0.000016	(0.000009)					
			2021	0/47	0/47	—	(0.0000005)	37/60	37/60	0.0000005～0.000032	(0.0000003)	Bivalves 0/3 Fish 6/18 Birds 2/2	Bivalves 0/3 Fish 6/18 Birds 2/2	Bivalves — Fish 0.0000008～0.0000016 Birds 0.000017～0.000018	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	0/35	0/35	—	(0.00002)					
			2022	0/48	0/48	—	(0.0000004)	40/61	40/61	0.0000003～0.000043	(0.0000003)	Bivalves 0/3 Fish 14/18 Birds 2/2	Bivalves 0/3 Fish 14/18 Birds 2/2	Bivalves — Fish 0.0000006～0.0000096 Birds 0.000033～0.000039	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	1/36	1/36	0.00003	(0.00001)					
			2023	0/47	0/47	—	(0.0000004)	39/60	39/60	0.0000004～0.000040	(0.0000004)	Bivalves 1/2 Fish 13/18 Birds 2/2	Bivalves 1/2 Fish 13/18 Birds 2/2	Bivalves 0.0000005 Fish 0.0000006～0.0000058 Birds 0.000026～0.00013	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	1/35	1/35	0.00003	(0.00002)					
			2024	0/47	0/47	—	(0.0000006)	42/60	42/60	0.0000003～0.000061	(0.0000003)	Bivalves 0/3 Fish 12/16 Birds 2/2	Bivalves 0/3 Fish 12/16 Birds 2/2	Bivalves — Fish 0.0000007～0.000013 Birds 0.000035～0.00021	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	3/35	3/35	0.00001	(0.00001)					
852-7	Heptachlorobiphenyls	28655-71-2	2000	28/28	28/28	0.00000010～0.000058	(0.00000006)	35/36	35/36	0.00000080～0.10	(0.0000002)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.00014～0.051	(Bivalves & Fish 0.00000003)	17/17	17/17	0.00059～0.043	(0.0000006)					852-7
			2001	29/29	29/29	0.00000011～0.000043	(0.00000006～0.0000009)	38/39	38/39	0.0000029～0.16	(0.00000006～0.000002)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.00032～0.041	(Bivalves & Fish 0.00000003～0.0000005)	15/15	15/15	0.00030～0.043	(0.0000006～0.00002)					
			2002	114/114	38/38	0.00000021～0.0011	(0.0000002)	189/189	63/63	0.0000006～0.14	(0.0000005)	Bivalves 38/38 Fish 70/70 Birds 10/10	Bivalves 8/8 Fish 14/14 Birds 2/2	Bivalves 0.000032～0.0035 Fish 0.00015～0.036 Birds 0.00088～0.0042	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	102/102	34/34	0.000075～0.024	(0.000007)					
			2003	36/36	36/36	0.0000067～0.00012	(0.00000007)	186/186	62/62	0.0000019～0.20	(0.0000003)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.00011～0.0045 Fish 0.00011～0.014 Birds 0.0012～0.0086	(Bivalves 0.0000016) (Fish 0.0000016) (Birds 0.0000016)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.00036～0.026 C.S. 0.00021～0.024	(W.S. 0.00001) (C.S. 0.00001)					
			2004	38/38	38/38	0.0000016～0.00045	(0.0000002)	189/189	63/63	0.0000005～0.20	(0.0000002)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.00013～0.0078 Fish 0.000093～0.037 Birds 0.0013～0.0023	(Bivalves 0.0000026) (Fish 0.0000026) (Birds 0.0000026)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00016～0.038 C.S. 0.000079～0.014	(W.S. 0.000039) (C.S. 0.000039)					
			2005	47/47	47/47	0.0000025～0.00021	(0.000000094)	189/189	63/63	0.0000005～0.12	(0.0000001)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00012～0.0028 Fish 0.000067～0.039 Birds 0.0012～0.0030	(Bivalves 0.0000017) (Fish 0.0000017) (Birds 0.0000017)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00017～0.028 C.S. 0.00014～0.0085	(W.S. 0.000024) (C.S. 0.000024)					
			2006	48/48	48/48	0.0000010～0.00031	(0.0000003)	192/192	64/64	0.0000012～0.12	(0.00000009)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000077～0.0026 Fish 0.000070～0.018 Birds 0.0012～0.012	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00018～0.040 C.S. 0.00009～0.012	(W.S. 0.00002) (C.S. 0.00002)					
			2007	47/48	47/48	0.0000009～0.00019	(0.0000004)	192/192	64/64	0.00000060～0.13	(0.00000009)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.00010～0.0022 Fish 0.000091～0.031 Birds 0.00083～0.0025	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00019～0.060 C.S. 0.00018～0.011	(W.S. 0.00001) (C.S. 0.00001)					
			2008	48/48	48/48	0.0000009～0.00024	(0.0000002)	188/192	64/64	0.00000020～0.13	(0.00000008)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000086～0.0022 Fish 0.00013～0.021 Birds 0.00071～0.010	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00023～0.041 C.S. 0.00016～0.011	(W.S. 0.00001) (C.S. 0.00001)					
			2009	48/49	48/49	0.0000012～0.00083	(0.0000001)	189/192	64/64	0.0000007～0.065	(0.0000003)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000096～0.0050 Fish 0.000070～0.025 Birds 0.00089～0.0017	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00019～0.042 C.S. 0.00016～0.0048	(W.S. 0.00001) (C.S. 0.00001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2010	49/49	49/49	0.0000013～0.00013	(0.0000006)	49/64	49/64	0.000069～0.12	(0.00006)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.00019～0.0019 Fish 0.00013～0.018 Birds 0.0013～0.0015	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00022～0.044 C.S. 0.00014～0.013	(W.S. 0.00007) (C.S. 0.00007)					
			2011	49/49	49/49	0.0000003～0.00024	(0.0000002)	62/64	62/64	0.0000014～0.064	(0.0000006)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.00011～0.0030 Fish 0.000088～0.051 Birds 0.0011	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 36/37	W.S. 35/35 C.S. 36/37	W.S. 0.00016～0.045 C.S. 0.00015～0.012	(W.S. 0.00011) (C.S. 0.00011)					
			2012	45/48	45/48	0.0000005～0.00018	(0.0000004)	61/63	61/63	0.0000016～0.086	(0.0000005)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.00012～0.0016 Fish 0.00007～0.016 Birds 0.00096～0.001	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00016～0.049 C.S. 0.00012～0.0045	(W.S. 0.00004) (C.S. 0.00004)					
			2013	48/48	48/48	0.0000005～0.000099	(0.0000004)	62/62	62/62	0.0000017～0.15	(0.0000004)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000085～0.0018 Fish 0.000085～0.026 Birds 0.046～0.11	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00014～0.052 C.S. 0.00010～0.0021	(W.S. 0.00001) (C.S. 0.00001)					
			2014	48/48	48/48	0.0000002～0.00015	(0.0000001)	63/63	63/63	0.0000010～0.051	(0.0000004)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000067～0.00081 Fish 0.00016～0.026 Birds 0.0019～0.027	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.00011～0.057	(0.00007)					
			2015	48/48	48/48	0.0000003～0.000078	(0.0000002)	61/62	61/62	0.0000006～0.099	(0.0000005)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.000057～0.00058 Fish 0.00010～0.021 Birds 0.00083	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	35/35	35/35	0.00008～0.040	(0.00005)					
			2016	43/48	43/48	0.0000005～0.00024	(0.0000004)	61/62	61/62	0.0000019～0.046	(0.0000014)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000044～0.00076 Fish 0.00012～0.019 Birds 0.0019～0.013	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	37/37	37/37	0.00014～0.033	(0.00008)					
			2017	35/47	35/47	0.0000008～0.000058	(0.0000006)	60/62	60/62	0.0000006～0.033	(0.0000003)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000050～0.0011 Fish 0.000071～0.031 Birds 0.00060～0.046	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00011～0.021	(0.00005)					
			2018	41/47	41/47	0.0000006～0.00017	(0.0000006)	56/61	56/61	0.000007～0.080	(0.000006)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000073～0.00087 Fish 0.000080～0.017 Birds 0.011～0.020	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/37	36/37	0.00013～0.036	(0.00006)					
			2019	46/48	46/48	0.0000002～0.000067	(0.0000002)	61/61	61/61	0.0000004～0.079	(0.0000003)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000036～0.0011 Fish 0.00021～0.014 Birds 0.037	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.00017～0.047	(0.00005)					
			2020	35/46	35/46	0.0000004～0.00010	(0.0000004)	57/58	57/58	0.0000008～0.047	(0.0000006)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.000042～0.00076 Fish 0.00013～0.0091 Birds 0.0080	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00014～0.011	(0.00005)					
			2021	27/47	27/47	0.0000008～0.00018	(0.0000008)	60/60	60/60	0.0000014～0.051	(0.0000006)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000056～0.00038 Fish 0.00010～0.019 Birds 0.022～0.037	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	35/35	35/35	0.00011～0.014	(0.00003)					
			2022	41/48	41/48	0.0000006～0.000043	(0.0000005)	61/61	61/61	0.0000005～0.049	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000027～0.00048 Fish 0.000095～0.019 Birds 0.025～0.027	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	35/36	35/36	0.00008～0.014	(0.00002)					
			2023	38/47	38/47	0.0000005～0.000097	(0.0000005)	60/60	60/60	0.0000003～0.045	(0.0000003)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.000024～0.00029 Fish 0.000071～0.0068 Birds 0.010～0.061	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	35/35	35/35	0.00011～0.0024	(0.00008)					
			2024	28/47	28/47	0.0000007～0.000037	(0.0000007)	59/60	59/60	0.0000014～0.076	(0.0000007)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.000019～0.00040 Fish 0.00014～0.018 Birds 0.0071～0.16	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	34/35	34/35	0.0001～0.0018	(0.0001)					
852-7-1	2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB#170)	35065-30-6	2000	27/27	27/27	0.00000010～0.0000081	(0.0000003)	33/35	33/35	0.0000030～0.010	(0.0000006)	Bivalves & Fish 34/34	Bivalves & Fish 34/34	Bivalves & Fish 0.0000085～0.0039	(Bivalves & Fish 0.0000002)	15/15	15/15	0.000040～0.0025	(0.000003)					852-7-1
			2001	29/29	29/29	0.00000011～0.0000064	(0.00000007)	37/39	37/39	0.0000020～0.017	(0.0000020)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.000011～0.0032	(Bivalves & Fish 0.00000004)	15/15	15/15	0.000020～0.0016	(0.000004)					
			2003	36/36	36/36	0.0000009～0.000012	(0.0000003)	163/186	55/62	0.0000022～0.022	(0.000002)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000030～0.00015 Fish 0.000013～0.0015 Birds 0.00020～0.0011	(Bivalves 0.0000018) (Fish 0.0000018) (Birds 0.0000018)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.000029～0.0020 C.S. 0.000014～0.0017	(W.S. 0.0000098) (C.S. 0.0000098)					
			2004	31/38	31/38	0.0000005～0.000036	(0.0000005)	178/189	62/63	0.0000004～0.018	(0.0000004)	Bivalves 30/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.0000026～0.00029 Fish 0.0000067～0.0034 Birds 0.00017～0.00026	(Bivalves 0.0000026) (Fish 0.0000026) (Birds 0.0000026)	W.S. 33/37 C.S. 30/37	W.S. 33/37 C.S. 30/37	W.S. 0.000031～0.0021 C.S. 0.000029～0.00083	(W.S. 0.000029) (C.S. 0.000029)					
			2005	43/47	43/47	0.0000004～0.000018	(0.0000004)	183/189	63/63	0.0000004～0.011	(0.0000004)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000035～0.000063 Fish 0.0000044～0.0033 Birds 0.00014～0.00034	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000012～0.0020 C.S. 0.0000090～0.00051	(W.S. 0.0000014) (C.S. 0.0000014)					
			2006	29/48	29/48	0.0000007～0.000011	(0.0000007)	192/192	64/64	0.0000002～0.012	(0.0000001)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000002～0.000076 Fish 0.000004～0.0017 Birds 0.00013～0.0012	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/37 C.S. 32/37	W.S. 36/37 C.S. 32/37	W.S. 0.00002～0.0018 C.S. 0.00002～0.00067	(W.S. 0.00002) (C.S. 0.00002)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2007	38/48	38/48	0.0000005～0.000020	(0.0000005)	188/192	64/64	0.0000003～0.011	(0.0000003)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000019～0.000052 Fish 0.0000061～0.0026 Birds 0.00010～0.00027	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.000013～0.0029 C.S. 0.000012～0.00057	(W.S. 0.000009) (C.S. 0.000009)					
			2008	47/48	47/48	0.0000003～0.0000087	(0.0000002)	187/192	64/64	0.0000002～0.014	(0.0000002)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000001～0.000038 Fish 0.000010～0.0021 Birds 0.000085～0.0012	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00001～0.0021 C.S. 0.00001～0.00058	(W.S. 0.00001) (C.S. 0.00001)					
			2009	43/49	43/49	0.0000003～0.000052	(0.0000003)	188/192	64/64	0.0000005～0.0078	(0.0000005)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000002～0.00013 Fish 0.000005～0.0018 Birds 0.00011～0.00019	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000009～0.0019 C.S. 0.000009～0.00028	(W.S. 0.000007) (C.S. 0.000007)					
			2010	49/49	49/49	0.0000001～0.000012	(0.0000001)	52/64	52/64	0.000007～0.011	(0.000006)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000004～0.000035 Fish 0.000011～0.0014 Birds 0.00016～0.00017	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000011～0.0021 C.S. 0.000009～0.00070	(W.S. 0.000005) (C.S. 0.000005)					
			2011	48/49	48/49	0.0000001～0.000023	(0.0000001)	62/64	62/64	0.0000005～0.0071	(0.0000005)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000004～0.000070 Fish 0.000006～0.0037 Birds 0.00014	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/35 C.S. 34/37	W.S. 35/35 C.S. 34/37	W.S. 0.000011～0.0022 C.S. 0.000011～0.00068	(W.S. 0.000009) (C.S. 0.000009)					
			2012	33/48	33/48	0.0000004～0.000016	(0.0000003)	59/63	59/63	0.0000008～0.0089	(0.0000008)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000043～0.000029 Fish 0.0000048～0.0013 Birds 0.00011～0.00013	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 33/36 C.S. 32/36	W.S. 33/36 C.S. 32/36	W.S. 0.00001～0.0023 C.S. 0.00001～0.00023	(W.S. 0.00001) (C.S. 0.00001)					
			2013	47/48	47/48	0.0000002～0.0000098	(0.0000002)	62/62	62/62	0.0000002～0.018	(0.0000001)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.0000032～0.000027 Fish 0.0000060～0.0025 Birds 0.0069～0.016	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 34/36 C.S. 30/36	W.S. 34/36 C.S. 30/36	W.S. 0.00002～0.0025 C.S. 0.00001～0.00012	(W.S. 0.00001) (C.S. 0.00001)					
			2014	46/48	46/48	0.00000013～0.000013	(0.00000008)	61/63	61/63	0.0000003～0.0061	(0.0000002)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000021～0.000016 Fish 0.000011～0.0022 Birds 0.00013～0.0042	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	35/36	35/36	0.000009～0.0027	(0.000009)					
			2015	45/48	45/48	0.0000003～0.0000096	(0.0000002)	60/62	60/62	0.0000005～0.0092	(0.0000005)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.0000015～0.000011 Fish 0.0000073～0.0016 Birds 0.00013	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	33/35	33/35	0.00001～0.0023	(0.00001)					
			2016	23/48	23/48	0.0000004～0.000022	(0.0000004)	62/62	62/62	0.0000004～0.0050	(0.0000003)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000011～0.000017 Fish 0.0000082～0.0017 Birds 0.00032～0.0019	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	36/37	36/37	0.00002～0.0022	(0.00001)					
			2017	20/47	20/47	0.0000006～0.0000062	(0.0000006)	60/62	60/62	0.0000002～0.0038	(0.0000002)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000001～0.000026 Fish 0.000005～0.0024 Birds 0.000078～0.0084	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00001～0.0013	(0.00001)					
			2018	34/47	34/47	0.0000003～0.000014	(0.0000003)	45/61	45/61	0.000008～0.0081	(0.000007)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000025～0.000029 Fish 0.0000041～0.0014 Birds 0.0018～0.0037	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	36/37	36/37	0.000011～0.0023	(0.000008)					
			2019	34/48	34/48	0.0000002～0.0000076	(0.0000002)	60/61	60/61	0.0000004～0.0075	(0.0000003)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.0000014～0.000029 Fish 0.000017～0.00092 Birds 0.0052	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	36/36	36/36	0.00001～0.0028	(0.00001)					
			2020	20/46	20/46	0.0000004～0.0000099	(0.0000004)	55/58	55/58	0.0000006～0.0048	(0.0000006)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.000002～0.000039 Fish 0.000011～0.00067 Birds 0.0012	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/37	36/37	0.000008～0.00089	(0.000007)					
			2021	15/47	15/47	0.0000008～0.000019	(0.0000008)	58/60	58/60	0.0000006～0.0050	(0.0000006)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000019～0.000016 Fish 0.0000068～0.0018 Birds 0.0029～0.0046	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	30/35	30/35	0.00002～0.0010	(0.00002)					
			2022	21/48	21/48	0.0000005～0.0000051	(0.0000005)	59/61	59/61	0.0000005～0.0049	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000011～0.0000090 Fish 0.0000095～0.0016 Birds 0.0033～0.0040	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	34/36	34/36	0.00001～0.00087	(0.00001)					
			2023	25/47	25/47	0.0000005～0.0000079	(0.0000005)	58/60	58/60	0.0000005～0.0046	(0.0000003)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.0000012～0.0000061 Fish 0.0000050～0.00061 Birds 0.0015～0.010	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	24/35	24/35	0.00003～0.00023	(0.00003)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2024	12/47	12/47	0.0000013～0.0000035	(0.0000007)	57/60	57/60	0.0000009～0.0073	(0.0000007)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.0000010～0.000023 Fish 0.000013～0.0014 Birds 0.0011～0.023	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	17/35	17/35	0.00003～0.00020	(0.00003)					
852-7-2	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB#180)	35065-29-3	2000	20/27	20/27	0.0000011～0.000018	(0.0000004)	33/35	33/35	0.0000050～0.030	(0.0000007)	Bivalves & Fish 34/34	Bivalves & Fish 34/34	Bivalves & Fish 0.000051～0.014	(Bivalves & Fish 0.0000002)	15/15	15/15	0.000090～0.0083	(0.000004)					852-7-2
			2001	26/29	26/29	0.0000009～0.000012	(0.0000009)	37/39	37/39	0.0000080～0.036	(0.0000020)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.000051～0.010	(Bivalves & Fish 0.0000005)	15/15	15/15	0.000060～0.0055	(0.000003)					
			2003	36/36	36/36	0.0000019～0.000032	(0.0000005)	186/186	62/62	0.0000006～0.049	(0.0000002)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000093～0.00043 Fish 0.000030～0.0038 Birds 0.00042～0.0029	(Bivalves 0.0000015) (Fish 0.0000015) (Birds 0.0000015)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.000054～0.0041 C.S. 0.000030～0.0047	(W.S. 0.000016) (C.S. 0.000016)					
			2004	38/38	38/38	0.0000006～0.00011	(0.0000002)	189/189	63/63	0.0000003～0.038	(0.0000002)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.0000098～0.0011 Fish 0.000020～0.0088 Birds 0.00042～0.00075	(Bivalves 0.0000015) (Fish 0.0000015) (Birds 0.0000015)	W.S. 36/37 C.S. 33/37	W.S. 36/37 C.S. 33/37	W.S. 0.000060～0.0049 C.S. 0.000048～0.0026	(W.S. 0.000039) (C.S. 0.000039)					
			2005	47/47	47/47	0.00000078～0.000057	(0.00000009)	189/189	63/63	0.0000003～0.028	(0.0000001)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000015～0.00035 Fish 0.000013～0.011 Birds 0.00042～0.0010	(Bivalves 0.00000094) (Fish 0.00000094) (Birds 0.00000094)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000023～0.0058 C.S. 0.000024～0.0019	(W.S. 0.0000014) (C.S. 0.0000014)					
			2006	43/48	43/48	0.000001～0.000032	(0.000001)	189/192	64/64	0.0000004～0.030	(0.0000004)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000007～0.00036 Fish 0.000014～0.0051 Birds 0.00043～0.0041	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000027～0.0074 C.S. 0.000018～0.0026	(W.S. 0.000009) (C.S. 0.000009)					
			2007	43/48	43/48	0.0000004～0.000057	(0.0000004)	192/192	64/64	0.00000038～0.028	(0.00000009)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000007～0.0003 Fish 0.00002～0.0082 Birds 0.00031～0.00078	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.000029～0.011 C.S. 0.000027～0.0027	(W.S. 0.000005) (C.S. 0.000005)					
			2008	48/48	48/48	0.0000003～0.000026	(0.0000003)	183/192	63/64	0.0000005～0.030	(0.0000003)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000005～0.00025 Fish 0.000031～0.0060 Birds 0.00025～0.0034	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00004～0.0083 C.S. 0.00002～0.0022	(W.S. 0.00001) (C.S. 0.00001)					
			2009	45/49	45/49	0.0000005～0.00015	(0.0000005)	188/192	63/64	0.0000007～0.018	(0.0000005)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.0000074～0.00065 Fish 0.000015～0.0063 Birds 0.00030～0.00059	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000029～0.0073 C.S. 0.000021～0.00092	(W.S. 0.000009) (C.S. 0.000009)					
			2010	49/49	49/49	0.0000003～0.000030	(0.0000001)	47/64	47/64	0.000025～0.028	(0.00002)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000020～0.00019 Fish 0.000031～0.0046 Birds 0.00047～0.00054	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00004～0.0081 C.S. 0.00002～0.0024	(W.S. 0.00002) (C.S. 0.00002)					
			2011	49/49	49/49	0.0000002～0.000067	(0.0000002)	62/64	62/64	0.0000009～0.016	(0.0000006)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000012～0.00036 Fish 0.000018～0.013 Birds 0.00037	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 33/35 C.S. 32/37	W.S. 33/35 C.S. 32/37	W.S. 0.00004～0.0081 C.S. 0.00004～0.0022	(W.S. 0.00004) (C.S. 0.00004)					
			2012	45/48	45/48	0.0000005～0.000049	(0.0000004)	61/63	61/63	0.0000010～0.025	(0.0000008)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000014～0.00016 Fish 0.000015～0.0034 Birds 0.00032～0.00034	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.000015～0.0092 C.S. 0.000009～0.00076	(W.S. 0.000008) (C.S. 0.000008)					
			2013	47/48	47/48	0.0000003～0.000028	(0.0000002)	62/62	62/62	0.0000004～0.034	(0.0000003)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000011～0.00015 Fish 0.000018～0.0077 Birds 0.017～0.040	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00002～0.0098 C.S. 0.00001～0.00033	(W.S. 0.00001) (C.S. 0.00001)					
			2014	47/48	47/48	0.0000002～0.000043	(0.0000001)	62/63	62/63	0.0000005～0.012	(0.0000003)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000073～0.000092 Fish 0.000032～0.0068 Birds 0.00040～0.0094	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	35/36	35/36	0.00002～0.010	(0.00001)					
			2015	48/48	48/48	0.0000003～0.000020	(0.0000002)	61/62	61/62	0.0000006～0.026	(0.0000006)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.0000058～0.000066 Fish 0.000021～0.0053 Birds 0.00025	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	35/35	35/35	0.000014～0.0072	(0.000009)					
			2016	44/48	44/48	0.0000003～0.000071	(0.0000003)	62/62	62/62	0.0000006～0.014	(0.0000004)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.0000046～0.000099 Fish 0.000025～0.0057 Birds 0.00067～0.0041	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	37/37	37/37	0.000015～0.0064	(0.000008)					
			2017	34/47	34/47	0.0000007～0.000022	(0.0000006)	60/62	60/62	0.0000005～0.010	(0.0000002)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000006～0.00015 Fish 0.000014～0.0078 Birds 0.00019～0.017	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00001～0.0038	(0.00001)					
			2018	35/47	35/47	0.0000006～0.000050	(0.0000006)	60/61	60/61	0.0000008～0.024	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000008～0.00014 Fish 0.000015～0.0046 Birds 0.0037～0.0078	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.000017～0.0067	(0.000009)					
			2019	45/48	45/48	0.0000002～0.000021	(0.0000002)	61/61	61/61	0.0000004～0.023	(0.0000003)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000004～0.00016 Fish 0.000055～0.0026 Birds 0.012	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/36	36/36	0.00002～0.0084	(0.00001)					
			2020	34/46	34/46	0.0000004～0.000031	(0.0000004)	57/58	57/58	0.0000008～0.014	(0.0000006)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.0000042～0.00013 Fish 0.000029～0.0023 Birds 0.0025	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	37/37	37/37	0.000021～0.0020	(0.000009)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2021	25/47	25/47	0.0000008～0.000052	(0.0000008)	60/60	60/60	0.0000007～0.015	(0.0000006)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000061～0.000056 Fish 0.000018～0.0052 Birds 0.0071～0.011	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	31/35	31/35	0.00002～0.0028	(0.00002)					
			2022	40/48	40/48	0.0000006～0.000012	(0.0000005)	61/61	61/61	0.0000005～0.014	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000033～0.000057 Fish 0.000028～0.0049 Birds 0.0087～0.0096	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	35/36	35/36	0.000011～0.0025	(0.000005)					
			2023	37/47	37/47	0.0000005～0.000024	(0.0000005)	60/60	60/60	0.0000003～0.012	(0.0000003)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.0000033～0.000032 Fish 0.000015～0.0018 Birds 0.0039～0.021	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	28/35	28/35	0.00003～0.00043	(0.00003)					
			2024	27/47	27/47	0.0000007～0.000011	(0.0000007)	59/60	59/60	0.0000014～0.022	(0.0000007)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.0000034～0.000082 Fish 0.000042～0.0045 Birds 0.0027～0.060	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	23/35	23/35	0.00003～0.00035	(0.00003)					
852-7-3	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB#189)	39635-31-9	2000	3/28	3/28	0.00000040	(0.0000006)	29/36	29/36	0.0000010～0.00034	(0.000002)	Bivalves & Fish 34/35	Bivalves & Fish 34/35	Bivalves & Fish 0.00000059～0.00017	(Bivalves & Fish 0.0000003)	14/16	14/16	0.000014～0.000056	(0.000006)					852-7-3
			2001	3/29	3/29	0.0000004～0.0000006	(0.0000003)	33/39	33/39	0.0000004～0.00050	(0.0000003)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.0000012～0.00019	(Bivalves & Fish 0.0000003)	13/15	13/15	0.000006～0.00094	(0.000006)					
			2003	11/36	11/36	0.0000003～0.0000005	(0.0000002)	150/186	53/62	0.0000004～0.00076	(0.0000004)	Bivalves 25/30 Fish 60/70 Birds 10/10	Bivalves 5/6 Fish 12/14 Birds 2/2	Bivalves 0.0000015～0.000014 Fish 0.0000017～0.000064 Birds 0.000018～0.000062	(Bivalves 0.0000015) (Fish 0.0000015) (Birds 0.0000015)	W.S. 34/35 C.S. 32/34	W.S. 34/35 C.S. 32/34	W.S. 0.0000096～0.000059 C.S. 0.0000095～0.000052	(W.S. 0.0000083) (C.S. 0.0000083)					
			2004	7/38	7/38	0.0000003～0.0000018	(0.0000003)	156/189	56/63	0.0000002～0.00052	(0.0000002)	Bivalves 15/31 Fish 55/70 Birds 10/10	Bivalves 5/7 Fish 12/14 Birds 2/2	Bivalves 0.0000026～0.000020 Fish 0.0000026～0.00016 Birds 0.000012～0.000021	(Bivalves 0.0000026) (Fish 0.0000026) (Birds 0.0000026)	W.S. 5/37 C.S. 11/37	W.S. 5/37 C.S. 11/37	W.S. 0.000024～0.000061 C.S. 0.000021～0.00020	(W.S. 0.00002) (C.S. 0.00002)					
			2005	9/47	9/47	0.00000003～0.0000005	(0.0000002)	157/189	55/63	0.0000002～0.00032	(0.0000002)	Bivalves 23/31 Fish 56/80 Birds 10/10	Bivalves 6/7 Fish 12/16 Birds 2/2	Bivalves 0.0000018～0.0000085 Fish 0.0000023～0.00014 Birds 0.000012～0.000020	(Bivalves 0.0000017) (Fish 0.0000017) (Birds 0.0000017)	W.S. 35/37 C.S. 37/37	W.S. 35/37 C.S. 37/37	W.S. 0.0000010～0.000089 C.S. 0.0000010～0.000042	(W.S. 0.0000010) (C.S. 0.0000010)					
			2006	14/48	14/48	0.00000006～0.0000006	(0.0000003)	165/192	58/64	0.0000002～0.00037	(0.0000002)	Bivalves 31/31 Fish 75/80 Birds 10/10	Bivalves 7/7 Fish 15/16 Birds 2/2	Bivalves 0.0000005～0.0000075 Fish 0.0000007～0.000077 Birds 0.000012～0.000069	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	W.S. 15/37 C.S. 20/37	W.S. 15/37 C.S. 20/37	W.S. 0.000008～0.000044 C.S. 0.000008～0.000038	(W.S. 0.000008) (C.S. 0.000008)					
			2007	3/48	3/48	0.0000004～0.0000007	(0.0000004)	147/192	54/64	0.0000003～0.00036	(0.0000003)	Bivalves 21/31 Fish 66/80 Birds 10/10	Bivalves 5/7 Fish 14/16 Birds 2/2	Bivalves 0.000003～0.000006 Fish 0.000001～0.000092 Birds 0.000010～0.000015	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 19/36 C.S. 19/36	W.S. 19/36 C.S. 19/36	W.S. 0.000008～0.000058 C.S. 0.000009～0.000050	(W.S. 0.000008) (C.S. 0.000008)					
			2008	10/48	10/48	0.00000003～0.0000004	(0.0000002)	155/192	58/64	0.0000002～0.00053	(0.0000002)	Bivalves 25/31 Fish 76/85 Birds 10/10	Bivalves 6/7 Fish 16/17 Birds 2/2	Bivalves 0.0000009～0.0000076 Fish 0.0000008～0.000082 Birds 0.0000075～0.000056	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 23/37 C.S. 21/37	W.S. 23/37 C.S. 21/37	W.S. 0.000006～0.000043 C.S. 0.000006～0.000029	(W.S. 0.000006) (C.S. 0.000006)					
			2009	2/49	2/49	0.0000006～0.0000016	(0.0000006)	153/192	55/64	0.0000003～0.00032	(0.0000003)	Bivalves 30/31 Fish 81/90 Birds 10/10	Bivalves 7/7 Fish 17/18 Birds 2/2	Bivalves 0.0000005～0.000015 Fish 0.0000006～0.000074 Birds 0.0000072～0.000011	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	W.S. 19/37 C.S. 16/37	W.S. 19/37 C.S. 16/37	W.S. 0.000007～0.000036 C.S. 0.000007～0.000026	(W.S. 0.000007) (C.S. 0.000007)					
			2010	20/49	20/49	0.00000003～0.00000030	(0.0000001)	60/64	60/64	0.00000007～0.00033	(0.00000007)	Bivalves 4/6 Fish 13/18 Birds 2/2	Bivalves 4/6 Fish 13/18 Birds 2/2	Bivalves 0.000003～0.000006 Fish 0.000003～0.000065 Birds 0.000011～0.000015	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 11/37 C.S. 19/37	W.S. 11/37 C.S. 19/37	W.S. 0.000008～0.000035 C.S. 0.000009～0.000051	(W.S. 0.000008) (C.S. 0.000008)					
			2011	11/49	11/49	0.0000001～0.0000007	(0.0000001)	51/64	51/64	0.0000003～0.00026	(0.0000003)	Bivalves 4/4 Fish 16/18 Birds 1/1	Bivalves 4/4 Fish 16/18 Birds 1/1	Bivalves 0.0000010～0.0000078 Fish 0.0000009～0.00013 Birds 0.000012	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 14/35 C.S. 18/37	W.S. 14/35 C.S. 18/37	W.S. 0.000007～0.000043 C.S. 0.000007～0.000030	(W.S. 0.000007) (C.S. 0.000007)					
			2012	2/48	2/48	0.0000004	(0.0000002)	46/63	46/63	0.0000008～0.00031	(0.0000007)	Bivalves 5/5 Fish 17/19 Birds 2/2	Bivalves 5/5 Fish 17/19 Birds 2/2	Bivalves 0.0000013～0.0000044 Fish 0.0000011～0.00006 Birds 0.0000072～0.000011	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 15/36 C.S. 12/36	W.S. 15/36 C.S. 12/36	W.S. 0.000007～0.000038 C.S. 0.000007～0.000016	(W.S. 0.000006) (C.S. 0.000006)					
			2013	4/48	4/48	0.0000003～0.0000004	(0.0000003)	56/62	56/62	0.00000011～0.00065	(0.00000009)	Bivalves 5/5 Fish 18/19 Birds 2/2	Bivalves 5/5 Fish 18/19 Birds 2/2	Bivalves 0.0000007～0.0000045 Fish 0.0000009～0.000070 Birds 0.00034～0.00075	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	W.S. 16/36 C.S. 12/36	W.S. 16/36 C.S. 12/36	W.S. 0.000007～0.000042 C.S. 0.000007～0.000017	(W.S. 0.000006) (C.S. 0.000006)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2014	8/48	8/48	0.00000011～0.00000043	(0.00000008)	54/63	54/63	0.00000015～0.00020	(0.00000008)	Bivalves 2/3 Fish 17/19 Birds 2/2	Bivalves 2/3 Fish 17/19 Birds 2/2	Bivalves 0.0000011～0.0000029 Fish 0.0000009～0.000084 Birds 0.0000070～0.00022	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	11/36	11/36	0.000009～0.000039	(0.000009)					
			2015	3/48	3/48	0.0000003～0.0000005	(0.0000002)	47/62	47/62	0.0000006～0.00031	(0.0000006)	Bivalves 2/3 Fish 18/19 Birds 1/1	Bivalves 2/3 Fish 18/19 Birds 1/1	Bivalves 0.0000013～0.0000024 Fish 0.0000011～0.000064 Birds 0.0000085	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	6/35	6/35	0.000009～0.000051	(0.000009)					
			2016	2/48	2/48	0.0000004～0.0000007	(0.0000003)	47/62	47/62	0.0000004～0.00023	(0.0000004)	Bivalves 2/3 Fish 18/19 Birds 2/2	Bivalves 2/3 Fish 18/19 Birds 2/2	Bivalves 0.0000013～0.0000032 Fish 0.0000007～0.000066 Birds 0.000025～0.00011	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	7/37	7/37	0.00001～0.00004	(0.00001)					
			2017	0/47	0/47	—	(0.0000003)	54/62	54/62	0.00000008～0.00016	(0.00000008)	Bivalves 1/3 Fish 17/19 Birds 2/2	Bivalves 1/3 Fish 17/19 Birds 2/2	Bivalves 0.0000044 Fish 0.0000009～0.00012 Birds 0.0000064～0.00048	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	9/37	9/37	0.00001～0.000024	(0.000009)					
			2018	1/47	1/47	0.0000005	(0.0000005)	43/61	43/61	0.0000004～0.00030	(0.0000004)	Bivalves 2/3 Fish 17/18 Birds 2/2	Bivalves 2/3 Fish 17/18 Birds 2/2	Bivalves 0.0000009～0.0000036 Fish 0.0000009～0.000060 Birds 0.000092～0.00030	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	6/37	6/37	0.000009～0.000032	(0.000008)					
			2019	3/48	3/48	0.0000002～0.0000003	(0.0000002)	44/61	44/61	0.0000004～0.00022	(0.0000003)	Bivalves 2/3 Fish 16/16 Birds 1/1	Bivalves 2/3 Fish 16/16 Birds 1/1	Bivalves 0.0000011～0.0000053 Fish 0.0000009～0.000054 Birds 0.00041	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	16/36	16/36	0.00001～0.00005	(0.00001)					
			2020	2/46	2/46	0.0000005	(0.0000004)	39/58	39/58	0.0000011～0.0002	(0.0000006)	Bivalves 1/3 Fish 16/18 Birds 1/1	Bivalves 1/3 Fish 16/18 Birds 1/1	Bivalves 0.0000017 Fish 0.0000013～0.000030 Birds 0.000067	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	19/37	19/37	0.000004～0.000051	(0.000004)					
			2021	0/47	0/47	—	(0.0000008)	43/60	43/60	0.0000008～0.00018	(0.0000006)	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 0.0000011 Fish 0.0000008～0.000058 Birds 0.00019～0.00024	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	7/35	7/35	0.00001～0.00004	(0.00001)					
			2022	0/48	0/48	—	(0.0000005)	50/61	50/61	0.0000003～0.00016	(0.0000003)	Bivalves 2/3 Fish 17/18 Birds 2/2	Bivalves 2/3 Fish 17/18 Birds 2/2	Bivalves 0.0000003～0.0000018 Fish 0.0000004～0.000064 Birds 0.00021～0.00024	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	12/36	12/36	0.00001～0.00007	(0.00001)					
			2023	0/47	0/47	—	(0.0000005)	51/60	51/60	0.0000003～0.00018	(0.0000003)	Bivalves 1/2 Fish 17/18 Birds 2/2	Bivalves 1/2 Fish 17/18 Birds 2/2	Bivalves 0.0000011 Fish 0.0000010～0.000027 Birds 0.00012～0.00077	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	4/35	4/35	0.00002～0.00006	(0.00002)					
			2024	0/47	0/47	—	(0.0000007)	44/60	44/60	0.0000007～0.00026	(0.0000007)	Bivalves 1/3 Fish 15/16 Birds 2/2	Bivalves 1/3 Fish 15/16 Birds 2/2	Bivalves 0.0000010 Fish 0.0000012～0.000067 Birds 0.000095～0.0011	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	0/35	0/35	—	(0.00003)					
852-8	Octachlorobiphenyls	31472-83-0	2000	14/28	14/28	0.00000050～0.0000071	(0.0000002)	35/36	35/36	0.0000010～0.029	(0.0000004)	Bivalves & Fish 35/35	Bivalves & Fish 35/35	Bivalves & Fish 0.000018～0.010	(Bivalves & Fish 0.00000008)	17/17	17/17	0.000080～0.0036	(0.000002)					852-8
			2001	19/29	19/29	0.0000004～0.0000098	(0.0000002～0.0000008)	38/39	38/39	0.0000004～0.055	(0.0000002～0.0000008)	Bivalves & Fish 36/36	Bivalves & Fish 36/36	Bivalves & Fish 0.000019～0.0049	(Bivalves & Fish 0.00000008～0.0000004)	15/15	15/15	0.000048～0.0045	(0.000002～0.000008)					
			2002	109/114	37/38	0.00000019～0.00029	(0.00000030)	175/189	61/63	0.0000005～0.022	(0.0000004)	Bivalves 35/38 Fish 70/70 Birds 10/10	Bivalves 7/8 Fish 14/14 Birds 2/2	Bivalves 0.0000046～0.00016 Fish 0.000011～0.0063 Birds 0.00021～0.00063	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	82/102	34/34	0.000014～0.0049	(0.00001)					
			2003	36/36	36/36	0.0000014～0.000025	(0.00000007)	174/186	59/62	0.0000006～0.042	(0.0000003)	Bivalves 30/30 Fish 70/70 Birds 10/10	Bivalves 6/6 Fish 14/14 Birds 2/2	Bivalves 0.0000058～0.00028 Fish 0.000021～0.0024 Birds 0.00031～0.0015	(Bivalves 0.0000018) (Fish 0.0000018) (Birds 0.0000018)	W.S. 35/35 C.S. 33/34	W.S. 35/35 C.S. 33/34	W.S. 0.000043～0.0033 C.S. 0.000028～0.0034	(W.S. 0.000019) (C.S. 0.000019)					
			2004	38/38	38/38	0.0000006～0.000089	(0.0000002)	169/189	59/63	0.0000002～0.038	(0.0000002)	Bivalves 31/31 Fish 70/70 Birds 10/10	Bivalves 7/7 Fish 14/14 Birds 2/2	Bivalves 0.0000049～0.00038 Fish 0.000017～0.0050 Birds 0.00029～0.00040	(Bivalves 0.0000021) (Fish 0.0000021) (Birds 0.0000021)	W.S. 35/37 C.S. 33/37	W.S. 35/37 C.S. 33/37	W.S. 0.000022～0.0028 C.S. 0.000021～0.0023	(W.S. 0.000014) (C.S. 0.000014)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2005	47/47	47/47	0.0000007～0.000040	(0.0000001)	183/189	59/63	0.0000002～0.023	(0.0000001)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000085～0.00014 Fish 0.0000072～0.0062 Birds 0.00027～0.00043	(Bivalves 0.0000016) (Fish 0.0000016) (Birds 0.0000016)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.000020～0.0038 C.S. 0.000015～0.0011	(W.S. 0.000010) (C.S. 0.000010)					
			2006	48/48	48/48	0.0000002～0.000022	(0.0000001)	191/192	64/64	0.00000007～0.024	(0.00000005)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000004～0.00014 Fish 0.000008～0.0027 Birds 0.00025～0.0022	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37 C.S. 36/37	W.S. 37/37 C.S. 36/37	W.S. 0.00002～0.0049 C.S. 0.00002～0.00063	(W.S. 0.00001) (C.S. 0.00001)					
			2007	22/48	22/48	0.0000005～0.000049	(0.0000005)	185/192	63/64	0.0000002～0.025	(0.0000002)	Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000004～0.00011 Fish 0.000009～0.0040 Birds 0.00018～0.00043	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 34/36 C.S. 33/36	W.S. 34/36 C.S. 33/36	W.S. 0.00003～0.0072 C.S. 0.00003～0.0014	(W.S. 0.00003) (C.S. 0.00003)					
			2008	43/48	43/48	0.0000002～0.000020	(0.0000002)	180/192	63/64	0.0000002～0.038	(0.0000001)	Bivalves 31/31 Fish 85/85 Birds 10/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000003～0.00012 Fish 0.000013～0.0027 Birds 0.00016～0.0015	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 35/37 C.S. 33/37	W.S. 35/37 C.S. 33/37	W.S. 0.00005～0.0048 C.S. 0.00003～0.0014	(W.S. 0.00003) (C.S. 0.00003)					
			2009	35/49	35/49	0.0000003～0.00012	(0.0000003)	188/192	63/64	0.0000002～0.017	(0.0000001)	Bivalves 31/31 Fish 90/90 Birds 10/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000005～0.00031 Fish 0.000007～0.0040 Birds 0.00015～0.00029	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 35/37 C.S. 35/37	W.S. 35/37 C.S. 35/37	W.S. 0.00004～0.0048 C.S. 0.00002～0.00068	(W.S. 0.00002) (C.S. 0.00002)					
			2010	47/49	47/49	0.0000003～0.000026	(0.0000003)	50/64	50/64	0.00001～0.031	(0.00001)	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 6/6 Fish 18/18 Birds 2/2	Bivalves 0.000009～0.00011 Fish 0.000012～0.0024 Birds 0.00023～0.00030	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/37 C.S. 36/37	W.S. 36/37 C.S. 36/37	W.S. 0.00003～0.0055 C.S. 0.00002～0.0016	(W.S. 0.00002) (C.S. 0.00002)					
			2011	35/49	35/49	0.0000002～0.000060	(0.0000002)	57/64	57/64	0.0000014～0.019	(0.0000003)	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 4/4 Fish 18/18 Birds 1/1	Bivalves 0.000008～0.00020 Fish 0.000010～0.0082 Birds 0.00027	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 33/35 C.S. 33/37	W.S. 33/35 C.S. 33/37	W.S. 0.00004～0.0056 C.S. 0.00004～0.0016	(W.S. 0.00003) (C.S. 0.00003)					
			2012	19/48	19/48	0.0000004～0.000030	(0.0000003)	50/63	50/63	0.000007～0.026	(0.000002)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000008～0.000095 Fish 0.000009～0.0024 Birds 0.00017～0.00023	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/36 C.S. 32/36	W.S. 36/36 C.S. 32/36	W.S. 0.00002～0.0063 C.S. 0.00002～0.00064	(W.S. 0.00002) (C.S. 0.00002)					
			2013	35/48	35/48	0.0000002～0.000020	(0.0000002)	62/62	62/62	0.0000002～0.050	(0.0000001)	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 5/5 Fish 19/19 Birds 2/2	Bivalves 0.000006～0.00010 Fish 0.000011～0.0062 Birds 0.010～0.029	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.00002～0.0063 C.S. 0.00002～0.00032	(W.S. 0.00002) (C.S. 0.00002)					
			2014	44/48	44/48	0.0000001～0.000035	(0.0000001)	58/63	58/63	0.0000002～0.016	(0.0000002)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000004～0.000042 Fish 0.000015～0.0061 Birds 0.00028～0.0065	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	32/36	32/36	0.00004～0.0060	(0.00004)					
			2015	14/48	14/48	0.0000005～0.000017	(0.0000004)	55/62	55/62	0.000001～0.030	(0.000001)	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 3/3 Fish 19/19 Birds 1/1	Bivalves 0.000003～0.000033 Fish 0.000014～0.0032 Birds 0.00015	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	29/35	29/35	0.00005～0.0045	(0.00004)					
			2016	38/48	38/48	0.0000001～0.000044	(0.0000001)	56/62	56/62	0.0000004～0.014	(0.0000003)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000002～0.000039 Fish 0.000013～0.0050 Birds 0.00036～0.0025	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	21/37	21/37	0.0001～0.0041	(0.0001)					
			2017	12/47	12/47	0.0000004～0.0000097	(0.0000003)	59/62	59/62	0.0000003～0.014	(0.0000001)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000003～0.000053 Fish 0.000007～0.0078 Birds 0.00015～0.0088	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	21/37	21/37	0.00009～0.0024	(0.00009)					
			2018	34/47	34/47	0.0000003～0.000023	(0.0000003)	55/61	55/61	0.0000014～0.021	(0.0000005)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000004～0.000055 Fish 0.000008～0.0028 Birds 0.0021～0.0049	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	21/37	21/37	0.00006～0.0043	(0.00006)					
			2018	1/47	1/47	0.0000005	(0.0000005)	43/61	43/61	0.0000004～0.00030	(0.0000004)	Bivalves 2/3 Fish 17/18 Birds 2/2	Bivalves 2/3 Fish 17/18 Birds 2/2	Bivalves 0.0000009～0.0000036 Fish 0.0000009～0.000060 Birds 0.000092～0.00030	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	6/37	6/37	0.000009～0.000032	(0.000008)					
			2019	35/48	35/48	0.0000001～0.000014	(0.0000001)	54/61	54/61	0.0000004～0.018	(0.0000004)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000002～0.000058 Fish 0.000037～0.0022 Birds 0.0094	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	22/36	22/36	0.00007～0.0056	(0.00007)					
			2020	10/46	10/46	0.0000007～0.000018	(0.0000006)	52/58	52/58	0.0000006～0.012	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 3/3 Fish 18/18 Birds 1/1	Bivalves 0.000002～0.000042 Fish 0.000016～0.0016 Birds 0.0014	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	31/37	31/37	0.00003～0.0015	(0.00003)					
			2021	11/47	11/47	0.0000005～0.000036	(0.0000005)	57/60	57/60	0.0000007～0.012	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000003～0.000015 Fish 0.000010～0.0050 Birds 0.0041～0.0064	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	16/35	16/35	0.00006～0.0023	(0.00006)					
			2022	14/48	14/48	0.0000012～0.0000091	(0.0000003)	59/61	59/61	0.0000002～0.013	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.0000013～0.000021 Fish 0.000013～0.0023 Birds 0.0033～0.0041	(Bivalves 0.0000002) (Fish 0.0000002) (Birds 0.0000002)	22/36	22/36	0.00005～0.0016	(0.00005)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2023	18/47	18/47	0.0000003～0.000017	(0.0000003)	54/60	54/60	0.0000006～0.013	(0.0000003)	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 2/2 Fish 18/18 Birds 2/2	Bivalves 0.0000013～0.000017 Fish 0.0000070～0.00089 Birds 0.0020～0.011	(Bivalves 0.0000002) (Fish 0.0000002) (Birds 0.0000002)	10/35	10/35	0.00009～0.0004	(0.00009)					
			2024	9/47	9/47	0.0000007～0.0000053	(0.0000007)	45/60	45/60	0.000002～0.018	(0.000002)	Bivalves 2/3 Fish 16/16 Birds 2/2	Bivalves 2/3 Fish 16/16 Birds 2/2	Bivalves 0.0000048～0.000017 Fish 0.000022～0.0025 Birds 0.0015～0.029	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	15/35	15/35	0.00005～0.00024	(0.00005)					
852-9	Nanochlorobiphenyls	53742-07-7	2000	9/28	9/28	0.00000070～0.000051	(0.0000002)	31/36	31/36	0.0000016～0.0025	(0.0000004)	Bivalves & Fish 34/35	Bivalves & Fish 34/35	Bivalves & Fish 0.0000052～0.00040	(Bivalves & Fish 0.00000008)	17/17	17/17	0.000018～0.00042	(0.000002)					852-9
			2001	8/29	8/29	0.0000002～0.0000039	(0.0000002～0.0000005)	37/39	37/39	0.0000007～0.0032	(0.0000002～0.0000005)	Bivalves & Fish 35/36	Bivalves & Fish 35/36	Bivalves & Fish 0.0000044～0.00038	(Bivalves & Fish 0.00000008～0.0000003)	15/15	15/15	0.000019～0.0048	(0.000002～0.000005)					
			2002	76/114	30/38	0.00000007～0.000021	(0.00000030)	164/189	58/63	0.0000003～0.0050	(0.0000003)	Bivalves 2/38 Fish 70/70 Birds 10/10	Bivalves 1/8 Fish 14/14 Birds 2/2	Bivalves 0.0000010～0.0000027 Fish 0.0000033～0.00035 Birds 0.000044～0.000085	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	57/102	34/34	0.000012～0.0010	(0.00001)					
			2003	36/36	36/36	0.00000046～0.000002	(0.0000004)	157/186	54/62	0.0000006～0.010	(0.0000006)	Bivalves 8/30 Fish 70/70 Birds 10/10	Bivalves 2/6 Fish 14/14 Birds 2/2	Bivalves 0.0000015～0.0000031 Fish 0.0000021～0.00024 Birds 0.00010～0.00019	(Bivalves 0.0000013) (Fish 0.0000013) (Birds 0.0000013)	W.S. 35/35 C.S. 33/34	W.S. 35/35 C.S. 33/34	W.S. 0.000014～0.00021 C.S. 0.000017～0.00023	(W.S. 0.000013) (C.S. 0.000013)					
			2004	32/38	32/38	0.0000008～0.000007	(0.0000008)	158/189	56/63	0.0000003～0.0029	(0.0000003)	Bivalves 1/31 Fish 70/70 Birds 10/10	Bivalves 1/7 Fish 14/14 Birds 2/2	Bivalves 0.0000072 Fish 0.0000029～0.00045 Birds 0.000044～0.00014	(Bivalves 0.0000019) (Fish 0.0000019) (Birds 0.0000019)	W.S. 32/37 C.S. 32/37	W.S. 32/37 C.S. 32/37	W.S. 0.000022～0.00025 C.S. 0.000013～0.00055	(W.S. 0.000012) (C.S. 0.000012)					
			2005	12/47	12/47	0.0000006～0.0000019	(0.0000006)	164/189	58/63	0.0000002～0.0019	(0.0000002)	Bivalves 1/31 Fish 73/80 Birds 10/10	Bivalves 1/7 Fish 15/16 Birds 2/2	Bivalves 0.0000026 Fish 0.0000024～0.00048 Birds 0.000038～0.00012	(Bivalves 0.0000021) (Fish 0.0000021) (Birds 0.0000021)	W.S. 26/37 C.S. 27/37	W.S. 26/37 C.S. 27/37	W.S. 0.000020～0.00018 C.S. 0.000020～0.00011	(W.S. 0.000020) (C.S. 0.000020)					
			2006	27/48	27/48	0.00000019～0.0000032	(0.0000005)	173/192	61/64	0.0000002～0.0025	(0.0000002)	Bivalves 13/31 Fish 80/80 Birds 10/10	Bivalves 4/7 Fish 16/16 Birds 2/2	Bivalves 0.000001～0.000002 Fish 0.000001～0.00059 Birds 0.000038～0.00020	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 33/37 C.S. 34/37	W.S. 33/37 C.S. 34/37	W.S. 0.000009～0.00018 C.S. 0.000009～0.00014	(W.S. 0.000009) (C.S. 0.000009)					
			2007	16/48	16/48	0.0000003～0.0000030	(0.0000003)	156/192	55/64	0.0000003～0.0023	(0.0000003)	Bivalves 1/31 Fish 72/80 Birds 10/10	Bivalves 1/7 Fish 15/16 Birds 2/2	Bivalves 0.000002 Fish 0.000002～0.00088 Birds 0.000036～0.000095	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 24/36 C.S. 28/36	W.S. 24/36 C.S. 28/36	W.S. 0.00002～0.00031 C.S. 0.00002～0.00015	(W.S. 0.00002) (C.S. 0.00002)					
			2008	13/48	13/48	0.00000007～0.0000045	(0.0000004)	187/192	64/64	0.0000001～0.0043	(0.00000009)	Bivalves 0/31 Fish 84/85 Birds 10/10	Bivalves 0/31 Fish 84/85 Birds 10/10	Bivalves － Fish 0.000002～0.00018 Birds 0.000041～0.00014	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 28/37 C.S. 30/37	W.S. 28/37 C.S. 30/37	W.S. 0.00002～0.00022 C.S. 0.00002～0.00012	(W.S. 0.00002) (C.S. 0.00002)					
			2009	22/49	22/49	0.00000004～0.0000069	(0.0000002)	152/192	55/64	0.0000005～0.0017	(0.0000004)	Bivalves 6/31 Fish 90/90 Birds 10/10	Bivalves 6/31 Fish 90/90 Birds 10/10	Bivalves 0.000002 Fish 0.000001～0.00026 Birds 0.000025～0.000084	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 28/37 C.S. 19/37	W.S. 28/37 C.S. 19/37	W.S. 0.00002～0.00019 C.S. 0.00003～0.00009	(W.S. 0.00002) (C.S. 0.00002)					
			2010	32/49	32/49	0.0000001～0.0000017	(0.0000002)	52/64	52/64	0.000002～0.0027	(0.000001)	Bivalves 0/6 Fish 14/18 Birds 2/2	Bivalves 0/6 Fish 14/18 Birds 2/2	Bivalves － Fish 0.000004～0.00017 Birds 0.000031～0.000080	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 14/37 C.S. 24/37	W.S. 14/37 C.S. 24/37	W.S. 0.00003～0.00023 C.S. 0.00003～0.00027	(W.S. 0.00003) (C.S. 0.00003)					
			2011	24/49	24/49	0.00000005～0.0000030	(0.0000001)	53/64	53/64	0.0000003～0.0014	(0.0000003)	Bivalves 2/4 Fish 18/18 Birds 1/1	Bivalves 2/4 Fish 18/18 Birds 1/1	Bivalves 0.000001～0.000004 Fish 0.000001～0.00037 Birds 0.000076	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 30/35 C.S. 35/37	W.S. 30/35 C.S. 35/37	W.S. 0.00001～0.00022 C.S. 0.00001～0.00013	(W.S. 0.00001) (C.S. 0.00001)					
			2012	8/48	8/48	0.0000004～0.0000016	(0.0000003)	51/63	51/63	0.000001～0.0017	(0.000001)	Bivalves 1/5 Fish 19/19 Birds 2/2	Bivalves 1/5 Fish 19/19 Birds 2/2	Bivalves 0.000002 Fish 0.000001～0.00032 Birds 0.000031～0.000069	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 28/36 C.S. 24/36	W.S. 28/36 C.S. 24/36	W.S. 0.00002～0.00023 C.S. 0.00002～0.00007	(W.S. 0.00002) (C.S. 0.00002)					
			2013	9/48	9/48	0.0000003～0.0000029	(0.0000003)	57/62	57/62	0.0000002～0.0029	(0.0000001)	Bivalves 2/5 Fish 19/19 Birds 2/2	Bivalves 2/5 Fish 19/19 Birds 2/2	Bivalves 0.0000010～0.0000011 Fish 0.0000026～0.00036 Birds 0.0012～0.0031	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 33/36 C.S. 35/36	W.S. 33/36 C.S. 35/36	W.S. 0.00001～0.00023 C.S. 0.00001～0.00025	(W.S. 0.00001) (C.S. 0.00001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2014	20/48	20/48	0.0000001～0.0000016	(0.0000001)	53/63	53/63	0.0000003～0.0014	(0.0000003)	Bivalves 0/3 Fish 19/19 Birds 2/2	Bivalves 0/3 Fish 19/19 Birds 2/2	Bivalves － Fish 0.000003～0.00045 Birds 0.000021～0.00091	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	13/36	13/36	0.00004～0.00021	(0.00004)					
			2015	8/48	8/48	0.0000003～0.0000031	(0.0000003)	47/62	47/62	0.000001～0.0017	(0.000001)	Bivalves 0/3 Fish 19/19 Birds 1/1	Bivalves 0/3 Fish 19/19 Birds 1/1	Bivalves － Fish 0.000003～0.00016 Birds 0.000020	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	4/35	4/35	0.00008～0.00025	(0.00007)					
			2016	11/48	11/48	0.0000002～0.0000026	(0.0000002)	51/62	51/62	0.0000005～0.0012	(0.0000004)	Bivalves 1/3 Fish 19/19 Birds 2/2	Bivalves 1/3 Fish 19/19 Birds 2/2	Bivalves 0.000001 Fish 0.000002～0.00027 Birds 0.000038～0.00033	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	2/37	2/37	0.0001～0.0002	(0.0001)					
			2017	4/47	4/47	0.0000004～0.0000012	(0.0000003)	58/62	58/62	0.0000001～0.00098	(0.0000001)	Bivalves 1/3 Fish 19/19 Birds 2/2	Bivalves 1/3 Fish 19/19 Birds 2/2	Bivalves 0.000001 Fish 0.000001～0.00048 Birds 0.000028～0.0011	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	14/37	14/37	0.00003～0.00012	(0.00003)					
			2018	8/47	8/47	0.0000005～0.0000026	(0.0000004)	54/61	54/61	0.0000003～0.0015	(0.0000003)	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 0.000002 Fish 0.000003～0.00040 Birds 0.00026～0.0011	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	9/37	9/37	0.00003～0.00022	(0.00003)					
			2019	24/48	24/48	0.0000001～0.0000019	(0.0000001)	51/61	51/61	0.0000002～0.0015	(0.0000002)	Bivalves 1/3 Fish 16/16 Birds 1/1	Bivalves 1/3 Fish 16/16 Birds 1/1	Bivalves 0.000001 Fish 0.000003～0.00018 Birds 0.0014	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	12/36	12/36	0.00003～0.00020	(0.00003)					
			2020	8/46	8/46	0.0000004～0.0000046	(0.0000004)	45/58	45/58	0.0000006～0.0012	(0.0000004)	Bivalves 1/3 Fish 18/18 Birds 1/1	Bivalves 1/3 Fish 18/18 Birds 1/1	Bivalves 0.000001 Fish 0.000002～0.000094 Birds 0.00022	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	5/37	5/37	0.00005～0.00037	(0.00004)					
			2021	3/47	3/47	0.0000007～0.0000031	(0.0000007)	48/60	48/60	0.0000007～0.00075	(0.0000004)	Bivalves 1/3 Fish 18/18 Birds 2/2	Bivalves 1/3 Fish 18/18 Birds 2/2	Bivalves 0.000001 Fish 0.000001～0.00033 Birds 0.00049～0.00066	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	6/35	6/35	0.00003～0.00008	(0.00003)					
			2022	11/48	11/48	0.0000002～0.0000012	(0.0000002)	51/61	51/61	0.0000004～0.00090	(0.0000004)	Bivalves 0/3 Fish 18/18 Birds 2/2	Bivalves 0/3 Fish 18/18 Birds 2/2	Bivalves － Fish 0.0000013～0.00014 Birds 0.00036～0.00050	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	17/36	17/36	0.00002～0.00020	(0.00002)					
			2023	13/47	13/47	0.0000002～0.0000013	(0.0000002)	48/60	48/60	0.0000005～0.00089	(0.0000005)	Bivalves 0/2 Fish 18/18 Birds 2/2	Bivalves 0/2 Fish 18/18 Birds 2/2	Bivalves － Fish 0.0000008～0.000070 Birds 0.00029～0.0015	(Bivalves 0.0000003) (Fish 0.0000003) (Birds 0.0000003)	5/35	5/35	0.00004～0.00024	(0.00004)					
			2024	0/47	0/47	－	(0.0000006)	48/60	48/60	0.0000005～0.0012	(0.0000004)	Bivalves 0/3 Fish 16/16 Birds 2/2	Bivalves 0/3 Fish 16/16 Birds 2/2	Bivalves － Fish 0.0000025～0.00016 Birds 0.00035～0.0028	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	18/35	18/35	0.00002～0.00005	(0.00002)					
852-10	Decachlorobiphenyl	2051-24-3	2000	8/28	8/28	0.00000030～0.0000037	(0.0000003)	33/36	33/36	0.0000012～0.00076	(0.0000005)	Bivalves & Fish 34/35	Bivalves & Fish 34/35	Bivalves & Fish 0.00000050～0.00015	(Bivalves & Fish 0.0000002)	17/17	17/17	0.000010～0.00054	(0.00001)					852-10
			2001	14/29	14/29	0.0000004～0.0000040	(0.0000004)	35/39	35/39	0.0000007～0.00046	(0.0000007)	Bivalves & Fish 35/36	Bivalves & Fish 35/36	Bivalves & Fish 0.0000040～0.00028	(Bivalves & Fish 0.0000002)	15/15	15/15	0.00001～0.0020	(0.00001)					
			2002	98/114	35/38	0.000000050～0.000056	(0.00000030)	174/189	61/63	0.0000003～0.0053	(0.0000003)	Bivalves 10/38 Fish 70/70 Birds 10/10	Bivalves 2/8 Fish 14/14 Birds 2/2	Bivalves 0.0000056～0.000025 Fish 0.000002～0.000092 Birds 0.000032～0.000050	(Bivalves 0.0000004) (Fish 0.0000004) (Birds 0.0000004)	85/102	34/34	0.0000051～0.014	(0.000005)					
			2003	10/36	10/36	0.0000009～0.0000021	(0.0000009)	158/186	55/62	0.0000006～0.0077	(0.0000006)	Bivalves 10/30 Fish 64/70 Birds 10/10	Bivalves 2/6 Fish 13/14 Birds 2/2	Bivalves 0.0000031～0.000032 Fish 0.0000017～0.00010 Birds 0.000050～0.000091	(Bivalves 0.0000015) (Fish 0.0000015) (Birds 0.0000015)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.000010～0.00032 C.S. 0.0000083～0.00011	(W.S. 0.0000057) (C.S. 0.0000057)					
			2004	34/38	34/38	0.000002～0.000084	(0.000002)	157/189	53/63	0.0000004～0.0056	(0.0000004)	Bivalves 2/31 Fish 64/70 Birds 10/10	Bivalves 2/7 Fish 14/14 Birds 2/2	Bivalves 0.0000025～0.000016 Fish 0.0000019～0.00018 Birds 0.000025～0.000077	(Bivalves 0.0000018) (Fish 0.0000018) (Birds 0.0000018)	W.S. 36/37 C.S. 35/37	W.S. 36/37 C.S. 35/37	W.S. 0.0000084～0.00017 C.S. 0.000012～0.00033	(W.S. 0.0000081) (C.S. 0.0000081)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2005	14/47	14/47	0.000001～0.000056	(0.000001)	160/189	57/63	0.0000003～0.0084	(0.0000003)	Bivalves 11/31 Fish 75/80 Birds 10/10	Bivalves 3/7 Fish 15/16 Birds 2/2	Bivalves 0.00000080～0.000048 Fish 0.00000097～0.00015 Birds 0.000025～0.000074	(Bivalves 0.00000075) (Fish 0.00000075) (Birds 0.00000075)	W.S. 32/37 C.S. 33/37	W.S. 32/37 C.S. 33/37	W.S. 0.000010～0.00021 C.S. 0.000013～0.00024	(W.S. 0.000010) (C.S. 0.000010)					
			2006	26/48	26/48	0.00000010～0.000037	(0.0000007)	176/192	61/64	0.0000002～0.0059	(0.0000002)	Bivalves 7/31 Fish 80/80 Birds 10/10	Bivalves 3/7 Fish 16/16 Birds 2/2	Bivalves 0.0000006～0.000067 Fish 0.0000006～0.000096 Birds 0.000025～0.00010	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 23/37 C.S. 30/37	W.S. 23/37 C.S. 30/37	W.S. 0.00002～0.00028 C.S. 0.00002～0.00009	(W.S. 0.00002) (C.S. 0.00002)					
			2007	21/48	21/48	0.00000006～0.000090	(0.0000003)	173/192	61/64	0.0000003～0.011	(0.0000003)	Bivalves 6/31 Fish 72/80 Birds 10/10	Bivalves 2/7 Fish 15/16 Birds 2/2	Bivalves 0.0000022～0.000043 Fish 0.0000008～0.000055 Birds 0.000026～0.000047	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.000008～0.00021 C.S. 0.000009～0.00015	(W.S. 0.000007) (C.S. 0.000007)					
			2008	28/48	28/48	0.00000007～0.00017	(0.0000002)	185/192	63/64	0.0000001～0.0047	(0.0000001)	Bivalves 6/31 Fish 85/85 Birds 10/10	Bivalves 2/7 Fish 17/17 Birds 2/2	Bivalves 0.0000038～0.000013 Fish 0.0000006～0.000063 Birds 0.000025～0.000056	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	W.S. 34/37 C.S. 37/37	W.S. 34/37 C.S. 37/37	W.S. 0.00001～0.00009 C.S. 0.00001～0.00011	(W.S. 0.00001) (C.S. 0.00001)					
			2009	28/49	28/49	0.00000003～0.000036	(0.0000002)	179/192	62/64	0.0000002～0.0056	(0.0000002)	Bivalves 6/31 Fish 89/90 Birds 10/10	Bivalves 2/7 Fish 18/18 Birds 2/2	Bivalves 0.0000011～0.000019 Fish 0.0000006～0.000040 Birds 0.000019～0.000041	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	W.S. 37/37 C.S. 35/37	W.S. 37/37 C.S. 35/37	W.S. 0.000006～0.00020 C.S. 0.000007～0.0026	(W.S. 0.000006) (C.S. 0.000006)					
			2010	36/49	36/49	0.000000041～0.000034	(0.00000009)	55/64	55/64	0.0000004～0.0028	(0.0000004)	Bivalves 2/6 Fish 13/18 Birds 2/2	Bivalves 2/6 Fish 13/18 Birds 2/2	Bivalves 0.000004～0.000018 Fish 0.000004～0.000073 Birds 0.000030～0.000046	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 34/37 C.S. 35/37	W.S. 34/37 C.S. 35/37	W.S. 0.00001～0.00006 C.S. 0.00001～0.00043	(W.S. 0.00001) (C.S. 0.00001)					
			2011	22/49	22/49	0.0000002～0.000013	(0.0000002)	54/64	54/64	0.0000006～0.0072	(0.0000004)	Bivalves 2/4 Fish 18/18 Birds 1/1	Bivalves 2/4 Fish 18/18 Birds 1/1	Bivalves 0.0000064～0.000032 Fish 0.0000008～0.000055 Birds 0.000047	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 33/35 C.S. 35/37	W.S. 33/35 C.S. 35/37	W.S. 0.000010～0.000071 C.S. 0.000009～0.00046	(W.S. 0.000008) (C.S. 0.000008)					
			2012	14/48	14/48	0.0000006～0.000018	(0.0000005)	51/63	51/63	0.000001～0.0026	(0.000001)	Bivalves 2/5 Fish 18/19 Birds 2/2	Bivalves 2/5 Fish 18/19 Birds 2/2	Bivalves 0.0000060～0.000018 Fish 0.0000013～0.00004 Birds 0.000031～0.000036	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 32/36 C.S. 32/36	W.S. 32/36 C.S. 32/36	W.S. 0.000009～0.000082 C.S. 0.000008～0.00016	(W.S. 0.000008) (C.S. 0.000008)					
			2013	34/48	34/48	0.00000008～0.000042	(0.00000007)	58/62	58/62	0.0000001～0.0022	(0.0000001)	Bivalves 2/5 Fish 19/19 Birds 2/2	Bivalves 2/5 Fish 19/19 Birds 2/2	Bivalves 0.0000047～0.0000056 Fish 0.0000006～0.000090 Birds 0.00045～0.00052	(Bivalves 0.0000005) (Fish 0.0000005) (Birds 0.0000005)	W.S. 31/36 C.S. 35/36	W.S. 31/36 C.S. 35/36	W.S. 0.000008～0.000054 C.S. 0.000008～0.00026	(W.S. 0.000007) (C.S. 0.000007)					
			2014	36/48	36/48	0.00000008～0.000029	(0.00000008)	56/63	56/63	0.0000002～0.0023	(0.0000001)	Bivalves 1/3 Fish 19/19 Birds 2/2	Bivalves 1/3 Fish 19/19 Birds 2/2	Bivalves 0.0000019 Fish 0.0000011～0.0011 Birds 0.0000091～0.00024	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	31/36	31/36	0.00001～0.00013	(0.00001)					
			2015	19/48	19/48	0.0000003～0.000012	(0.0000003)	51/62	51/62	0.0000011～0.0037	(0.0000009)	Bivalves 1/3 Fish 19/19 Birds 1/1	Bivalves 1/3 Fish 19/19 Birds 1/1	Bivalves 0.0000045 Fish 0.0000007～0.000033 Birds 0.00011	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	5/35	5/35	0.00007～0.00025	(0.00005)					
			2016	14/48	14/48	0.0000004～0.000017	(0.0000003)	53/62	53/62	0.0000004～0.0057	(0.0000004)	Bivalves 1/3 Fish 19/19 Birds 2/2	Bivalves 1/3 Fish 19/19 Birds 2/2	Bivalves 0.0000055 Fish 0.0000007～0.000033 Birds 0.000030～0.00019	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	3/37	3/37	0.00007～0.00009	(0.00006)					
			2017	6/47	6/47	0.0000008～0.000027	(0.0000005)	54/62	54/62	0.0000002～0.0025	(0.0000002)	Bivalves 1/3 Fish 18/19 Birds 2/2	Bivalves 1/3 Fish 18/19 Birds 2/2	Bivalves 0.0000029 Fish 0.0000015～0.000048 Birds 0.000027～0.00034	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	23/37	23/37	0.00002～0.00008	(0.00002)					
			2018	12/47	12/47	0.0000003～0.000022	(0.0000003)	52/61	52/61	0.0000003～0.0037	(0.0000003)	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 0.000013 Fish 0.0000015～0.000034 Birds 0.000089～0.00080	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	13/37	13/37	0.00002～0.00005	(0.00002)					
			2019	34/48	34/48	0.0000001～0.0000046	(0.0000001)	47/61	47/61	0.0000008～0.0076	(0.0000007)	Bivalves 1/3 Fish 16/16 Birds 1/1	Bivalves 1/3 Fish 16/16 Birds 1/1	Bivalves 0.0000049 Fish 0.0000012～0.000066 Birds 0.00076	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	13/36	13/36	0.00002～0.00013	(0.00002)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2020	5/46	5/46	0.0000015～0.0000076	(0.0000008)	50/58	50/58	0.0000002～0.0020	(0.0000002)	Bivalves 1/3 Fish 18/18 Birds 1/1	Bivalves 1/3 Fish 18/18 Birds 1/1	Bivalves 0.0000067 Fish 0.0000008～0.000019 Birds 0.000075	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	15/37	15/37	0.00002～0.00030	(0.00002)					
			2021	4/47	4/47	0.000001～0.000018	(0.000001)	50/60	50/60	0.0000005～0.0022	(0.0000002)	Bivalves 1/3 Fish 18/18 Birds 2/2	Bivalves 1/3 Fish 18/18 Birds 2/2	Bivalves 0.0000037 Fish 0.0000006～0.000029 Birds 0.00014～0.00020	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	15/35	15/35	0.00002～0.00005	(0.00002)					
			2022	23/48	23/48	0.0000002～0.0000088	(0.0000002)	53/61	53/61	0.0000005～0.0016	(0.0000004)	Bivalves 0/3 Fish 17/18 Birds 2/2	Bivalves 0/3 Fish 17/18 Birds 2/2	Bivalves － Fish 0.0000011～0.000031 Birds 0.00014～0.00019	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	29/36	29/36	0.00001～0.00008	(0.00001)					
			2023	13/47	13/47	0.0000002～0.000011	(0.0000002)	49/60	49/60	0.0000006～0.0019	(0.0000005)	Bivalves 0/2 Fish 17/18 Birds 2/2	Bivalves 0/2 Fish 17/18 Birds 2/2	Bivalves － Fish 0.0000014～0.000038 Birds 0.00013～0.00042	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	15/35	15/35	0.00002～0.00011	(0.00002)					
			2024	4/47	4/47	0.0000007～0.0000025	(0.0000007)	49/60	49/60	0.0000003～0.0013	(0.0000003)	Bivalves 1/3 Fish 16/16 Birds 2/2	Bivalves 1/3 Fish 16/16 Birds 2/2	Bivalves 0.0000012 Fish 0.0000013～0.000037 Birds 0.00028～0.0017	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	21/35	21/35	0.00002～0.00010	(0.00002)					
853	Polychloro-2,2-dimethyl-3-methylidenebicyclo[2.2.1]heptanes (synonym: Toxaphenes)	8001-35-2	1983	0/33	0/11	－	(0.3～0.6)	0/33	0/11	－	(0.01～0.04)													853
853-1	2-Endo,3-exp,5-endo,6-exo,8,8,10,10-octachlorobornane (synonym: Parlar-26)		2003	0/36	0/36	－	(0.00002)	0/186	0/62	－	(0.00003)	Bivalves 11/30 Fish 44/70 Birds 5/10	Bivalves 3/6 Fish 11/14 Birds 1/2	Bivalves 0.000016～0.000039 Fish 0.000015～0.00081 Birds 0.0013～0.0025	(Bivalves 0.000015) (Fish 0.000015) (Birds 0.000015)	W.S. 35/35 C.S. 34/34	W.S. 35/35 C.S. 34/34	W.S. 0.00017～0.00077 C.S. 0.000091～0.00027	(W.S. 0.000066) (C.S. 0.000066)					853-1
			2004	0/38	0/38	－	(0.000003)	0/189	0/63	－	(0.00002)	Bivalves 15/31 Fish 54/70 Birds 5/10	Bivalves 3/7 Fish 13/14 Birds 1/2	Bivalves 0.000016～0.000032 Fish 0.000014～0.0010 Birds 0.00068～0.00081	(Bivalves 0.000014) (Fish 0.000014) (Birds 0.000014)	W.S. 37/37 C.S. 37/37	W.S. 37/37 C.S. 37/37	W.S. 0.00017～0.00046 C.S. 0.000094～0.00050	(W.S. 0.000066) (C.S. 0.000066)					
			2005	0/47	0/47	－	(0.000004)	0/189	0/63	－	(0.00003)	Bivalves 7/31 Fish 50/75 Birds 5/10	Bivalves 4/7 Fish 13/16 Birds 1/2	Bivalves 0.000016～0.000028 Fish 0.000017～0.00090 Birds 0.00075～0.0012	(Bivalves 0.000016) (Fish 0.000016) (Birds 0.000016)	W.S. 0/37 C.S. 0/37	W.S. 0/37 C.S. 0/37	W.S. － C.S. －	(W.S. 0.0001) (C.S. 0.0001)					
			2006	0/48	0/48	－	(0.000005)	0/192	0/64	－	(0.000004)	Bivalves 21/31 Fish 70/80 Birds 5/10	Bivalves 5/7 Fish 15/16 Birds 1/2	Bivalves 0.000009～0.000025 Fish 0.000007～0.00088 Birds 0.00057～0.00075	(Bivalves 0.000007) (Fish 0.000007) (Birds 0.000007)	W.S. 0/37 C.S. 0/37	W.S. 0/37 C.S. 0/37	W.S. － C.S. －	(W.S. 0.0006) (C.S. 0.0006)					
			2007	0/48	0/48	－	(0.000005)	0/192	0/64	－	(0.000003)	Bivalves 26/31 Fish 64/80 Birds 5/10	Bivalves 6/7 Fish 14/16 Birds 1/2	Bivalves 0.000005～0.000020 Fish 0.000004～0.00069 Birds 0.00055～0.00065	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 18/36 C.S. 0/36	W.S. 18/36 C.S. 0/36	W.S. 0.0002～0.0003 C.S. －	(W.S. 0.0002) (C.S. 0.0002)					
			2008	0/48	0/48	－	(0.000003)	0/192	0/64	－	(0.000005)	Bivalves 27/31 Fish 79/85 Birds 6/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.000003～0.000022 Fish 0.000003～0.00073 Birds 0.000003～0.0012	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 37/37 C.S. 36/37	W.S. 37/37 C.S. 36/37	W.S. 0.00012～0.00058 C.S. 0.00008～0.00020	(W.S. 0.00008) (C.S. 0.00008)					
			2009	0/49	0/49	－	(0.000002)	0/192	0/64	－	(0.000004)	Bivalves 27/31 Fish 82/90 Birds 6/10	Bivalves 7/7 Fish 18/18 Birds 2/2	Bivalves 0.000004～0.000023 Fish 0.000003～0.00069 Birds 0.000004～0.00050	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 37/37 C.S. 33/37	W.S. 37/37 C.S. 33/37	W.S. 0.00011～0.00026 C.S. 0.00009～0.00027	(W.S. 0.00009) (C.S. 0.00009)					
			2015									Bivalves 2/3 Fish 13/19 Birds 1/1	Bivalves 2/3 Fish 13/19 Birds 1/1	Bivalves 0.000015～0.000017 Fish 0.000013～0.00040 Birds 0.000010	(Bivalves 0.000009) (Fish 0.000009) (Birds 0.000009)									
			2018	7/47	7/47	0.000002～0.000005	(0.000002)	0/61	0/61	－	(0.000003)	Bivalves 2/3 Fish 12/18 Birds 2/2	Bivalves 2/3 Fish 12/18 Birds 2/2	Bivalves 0.000015 Fish 0.000008～0.00028 Birds 0.000053～0.000054	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)	12/37	12/37	0.0002～0.0003	(0.0002)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
853-2	2-Endo,3-exp,5-endo,6-exo,8,9,9,10,10-nonachlorobornane (synonym: Parlar-50)		2003	0/36	0/36	—	(0.00003)	0/186	0/62	—	(0.00005)	Bivalves 17/30 Fish 55/70 Birds 5/10	Bivalves 4/6 Fish 14/14 Birds 1/2	Bivalves 0.000011～0.000058 Fish 0.000011～0.0011 Birds 0.0017～0.0030	(Bivalves 0.000011) (Fish 0.000011) (Birds 0.000011)	W.S. 2/35 C.S. 0/34	W.S. 2/35 C.S. 0/34	W.S. 0.00027～0.00037 C.S. —	(W.S. 0.00027) (C.S. 0.00027)					853-2
			2004	0/38	0/38	—	(0.000007)	0/189	0/63	—	(0.00002)	Bivalves 15/31 Fish 59/70 Birds 5/10	Bivalves 3/7 Fish 14/14 Birds 1/2	Bivalves 0.000025～0.000045 Fish 0.000016～0.0013 Birds 0.00088～0.0010	(Bivalves 0.000015) (Fish 0.000015) (Birds 0.000015)	W.S. 0/37 C.S. 0/37	W.S. 0/37 C.S. 0/37	W.S. — C.S. —	(W.S. 0.0004) (C.S. 0.0004)					
			2005	0/47	0/47	—	(0.000005)	0/189	0/63	—	(0.00004)	Bivalves 9/31 Fish 55/80 Birds 5/10	Bivalves 4/7 Fish 13/16 Birds 1/2	Bivalves 0.000018～0.000038 Fish 0.000018～0.0014 Birds 0.00095～0.0015	(Bivalves 0.000018) (Fish 0.000018) (Birds 0.000018)	W.S. 0/37 C.S. 0/37	W.S. 0/37 C.S. 0/37	W.S. — C.S. —	(W.S. 0.0002) (C.S. 0.0002)					
			2006	0/48	0/48	—	(0.000005)	0/192	0/64	—	(0.000007)	Bivalves 24/31 Fish 79/80 Birds 5/10	Bivalves 6/7 Fish 16/16 Birds 1/2	Bivalves 0.000005～0.000032 Fish 0.000005～0.0013 Birds 0.00076～0.0010	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	W.S. 0/37 C.S. 0/37	W.S. 0/37 C.S. 0/37	W.S. — C.S. —	(W.S. 0.0005) (C.S. 0.0005)					
			2007	0/48	0/48	—	(0.000003)	0/192	0/64	—	(0.00001)	Bivalves 27/31 Fish77/80 Birds 5/10	Bivalves 7/7 Fish 16/16 Birds 1/2	Bivalves 0.000003～0.000037 Fish 0.000003～0.0011 Birds 0.00072～0.00093	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 29/36 C.S. 0/36	W.S. 29/36 C.S. 0/36	W.S. 0.0001～0.0002 C.S. —	(W.S. 0.0001) (C.S. 0.0001)					
			2008	0/48	0/48	—	(0.000003)	0/192	0/64	—	(0.000006)	Bivalves 23/31 Fish 77/85 Birds 5/10	Bivalves 6/7 Fish 17/17 Birds 1/2	Bivalves 0.000004～0.000023 Fish 0.000004～0.0010 Birds 0.00082～0.0016	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 15/37 C.S. 0/37	W.S. 15/37 C.S. 0/37	W.S. 0.00009～0.00019 C.S. —	(W.S. 0.00009) (C.S. 0.00009)					
			2009	0/49	0/49	—	(0.000003)	0/192	0/64	—	(0.000005)	Bivalves 27/31 Fish 85/90 Birds 5/10	Bivalves 7/7 Fish 18/18 Birds 1/2	Bivalves 0.000003～0.000031 Fish 0.000003～0.00091 Birds 0.00050～0.00062	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 11/37 C.S. 1/37	W.S. 11/37 C.S. 1/37	W.S. 0.0001 C.S. 0.0001	(W.S. 0.0001) (C.S. 0.0001)					
			2015									Bivalves 2/3 Fish 13/19 Birds 0/1	Bivalves 2/3 Fish 13/19 Birds 0/1	Bivalves 0.000015～0.000016 Fish 0.000011～0.00064 Birds —	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)									
			2018	1/47	1/47	0.000002	(0.000002)	1/61	1/61	0.000003	(0.000003)	Bivalves 2/3 Fish 16/18 Birds 2/2	Bivalves 2/3 Fish 16/18 Birds 2/2	Bivalves 0.000016～0.000017 Fish 0.000006～0.00030 Birds 0.000011～0.000013	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	2/37	2/37	0.0002	(0.0002)					
853-3	2,2,5,5,8,9,9,10,10-Nonachlorobornane (synonym: Parlar-62)		2003	0/36	0/36	—	(0.00009)	0/186	0/62	—	(0.002)	Bivalves 0/30 Fish 9/70 Birds 5/10	Bivalves 0/6 Fish 3/14 Birds 1/2	Bivalves — Fish 0.000044～0.00058 Birds 0.00039～0.00053	(Bivalves 0.000040) (Fish 0.000040) (Birds 0.000040)	W.S. 0/35 C.S. 0/34	W.S. 0/35 C.S. 0/34	W.S. — C.S. —	(W.S. 0.00052) (C.S. 0.00052)					853-3
			2004	0/38	0/38	—	(0.00003)	0/189	0/63	—	(0.0004)	Bivalves 0/31 Fish 24/70 Birds 5/10	Bivalves 0/7 Fish 7/14 Birds 1/2	Bivalves — Fish 0.000033～0.00087 Birds 0.00022～0.00028	(Bivalves 0.000033) (Fish 0.000033) (Birds 0.000033)	W.S. 0/37 C.S. 0/37	W.S. 0/37 C.S. 0/37	W.S. — C.S. —	(W.S. 0.00081) (C.S. 0.00081)					
			2005	0/47	0/47	—	(0.00003)	0/189	0/63	—	(0.0007)	Bivalves 0/31 Fish 23/80 Birds 5/10	Bivalves 0/7 Fish 8/16 Birds 1/2	Bivalves — Fish 0.000039～0.00083 Birds 0.00024～0.00046	(Bivalves 0.000034) (Fish 0.000034) (Birds 0.000034)	W.S. 0/37 C.S. 0/37	W.S. 0/37 C.S. 0/37	W.S. — C.S. —	(W.S. 0.0004) (C.S. 0.0004)					
			2006	0/48	0/48	—	(0.00002)	0/192	0/64	—	(0.00006)	Bivalves 0/31 Fish 28/80 Birds 5/10	Bivalves 0/7 Fish 10/16 Birds 1/2	Bivalves — Fish 0.000030～0.00087 Birds 0.00023～0.00043	(Bivalves 0.00003) (Fish 0.00003) (Birds 0.00003)	W.S. 0/37 C.S. 0/37	W.S. 0/37 C.S. 0/37	W.S. — C.S. —	(W.S. 0.003) (C.S. 0.003)					
			2007	0/48	0/48	—	(0.00003)	0/192	0/64	—	(0.00007)	Bivalves 0/31 Fish 22/80 Birds 5/10	Bivalves 0/7 Fish 7/16 Birds 1/2	Bivalves — Fish 0.00003～0.00053 Birds 0.00020～0.00030	(Bivalves 0.00003) (Fish 0.00003) (Birds 0.00003)	W.S. 0/36 C.S. 0/36	W.S. 0/36 C.S. 0/36	W.S. — C.S. —	(W.S. 0.0006) (C.S. 0.0006)					
			2008	0/48	0/48	—	(0.00002)	0/192	0/64	—	(0.00004)	Bivalves 0/31 Fish 31/85 Birds 5/10	Bivalves 0/7 Fish 8/17 Birds 1/2	Bivalves — Fish 0.00003～0.00059 Birds 0.00026～0.00036	(Bivalves 0.00003) (Fish 0.00003) (Birds 0.00003)	W.S. 0/37 C.S. 0/37	W.S. 0/37 C.S. 0/37	W.S. — C.S. —	(W.S. 0.0006) (C.S. 0.0006)					
			2009	0/49	0/49	—	(0.00002)	0/192	0/64	—	(0.00003)	Bivalves 0/31 Fish 24/90 Birds 5/10	Bivalves 0/7 Fish 8/18 Birds 1/2	Bivalves — Fish 0.00002～0.00066 Birds 0.00016～0.00021	(Bivalves 0.00002) (Fish 0.00002) (Birds 0.00002)	W.S. 0/37 C.S. 0/37	W.S. 0/37 C.S. 0/37	W.S. — C.S. —	(W.S. 0.0006) (C.S. 0.0006)					
			2015									Bivalves 0/3 Fish 2/19 Birds 0/1	Bivalves 0/3 Fish 2/19 Birds 0/1	Bivalves — Fish 0.00015～0.00032 Birds —	(Bivalves 0.00006) (Fish 0.00006) (Birds 0.00006)									
			2018	0/47	0/47	—	(0.00002)	1/61	1/61	0.00002	(0.00002)	Bivalves 0/3 Fish 3/18 Birds 0/2	Bivalves 0/3 Fish 3/18 Birds 0/2	Bivalves — Fish 0.00006～0.00015 Birds —	(Bivalves 0.00004) (Fish 0.00004) (Birds 0.00004)	0/37	0/37	—	(0.0002)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
854	Polychloronaphthalenes	70776-03-3	1976	4/123	4/66	0.10～0.45	(0.02～2)	23/138	14/64	0.005～0.67	(0.004～0.2)	Fish 1/39	Fish 1/18	Fish 0.35	(Fish 0.005～0.05)									854
			1978	3/75	1/25	0.008～0.04	(0.001～1)	15/75	7/25	0.02～1.0	(0.005～0.05)	Fish 9/66	Fish 4/19	Fish 0.002～0.13	(Fish 0.004～0.05)									
			1979									Bivalves 0/15 Fish 0/40 Birds 0/6	Bivalves 0/3 Fish 0/8 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.1)									
			1980									Bivalves 0/15 Fish 0/50 Birds 0/8	Bivalves 0/3 Fish 0/10 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1981									Bivalves 0/20 Fish 0/46 Birds 0/7	Bivalves 0/4 Fish 0/9 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1982									Bivalves 0/20 Fish 0/50 Birds 0/9	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			1983									Bivalves 0/20 Fish 0/50 Birds 0/10	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			1984									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			1985									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			1987									Bivalves 0/20 Fish 0/65 Birds 0/10	Bivalves 0/4 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			1989									Bivalves 0/21 Fish 0/65 Birds 0/10	Bivalves 0/5 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			1991									Bivalves 0/30 Fish 0/65 Birds 0/10	Bivalves 0/6 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			1993									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.02) (Fish 0.02) (Birds 0.02)									
			1998													42/42	14/14	0.011～0.86	(0.001)					
			(2001)	12/24	5/8	0.0000052～0.000094		24/24	8/8	0.000020～0.0041														
			(2002)									Fish 30/30	Fish 10/10	Fish 0.000012～0.0020	(Fish 0.000002～0.000003)	32/33	11/11	0.00048～0.55	(0.00002～0.001)	Food 36/50		0.001～0.30ng/g-wet	(0.001～0.005)	
			(2006)									Bivalves 31/31 Fish 78/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.000019～0.0012 Fish 0.000010～0.0027 Birds 0.000011～0.000027	(Bivalves 0.000011*) (Fish 0.000011*) (Birds 0.000011*)									
			(2008)	9/48	9/48	0.000044～0.00018	(0.000030*)	166/189	58/63	0.000032～0.028	(0.000030*)	Bivalves 31/31 Fish 79/85 Birds 5/10	Bivalves 7/7 Fish 17/17 Birds 1/2	Bivalves 0.000011～0.0013 Fish 0.000011～0.0022 Birds 0.000017～0.000022	(Bivalves 0.000010*) (Fish 0.000010*) (Birds 0.000010*)	W.S. 22/23 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.035～0.66 C.S. 0.015～0.91	(W.S. 0.0013*) (C.S. 0.0013*)					
			(2014)													36/36	36/36	0.0054～1.6	(0.0010*)					
			(2015)									Bivalves 2/3 Fish 13/19 Birds 1/1	Bivalves 2/3 Fish 13/19 Birds 1/1	Bivalves 0.000067～0.00058 Fish 0.000020～0.00039 Birds 0.000020	(Bivalves 0.000018*) (Fish 0.000018*) (Birds 0.000018*)									
			(2016)					59/62	59/62	0.000022～0.16	(0.000020*)	Bivalves 2/3 Fish 13/19 Birds 2/2	Bivalves 2/3 Fish 13/19 Birds 2/2	Bivalves 0.000049～0.00079 Fish 0.000019～0.00034 Birds 0.000049～0.00032	(Bivalves 0.000019*) (Fish 0.000019*) (Bivalves 0.000019*)	37/37	37/37	0.0090～0.66	(0.00028*)					
			(2017)					62/62	62/62	0.000016～0.032	(0.0000091*)	Bivalves 2/3 Fish 17/19 Birds 2/2	Bivalves 2/3 Fish 17/19 Birds 2/2	Bivalves 0.000068～0.0014 Fish 0.000012～0.00036 Birds 0.000018～0.00046	(Bivalves 0.000012*) (Fish 0.000012*) (Birds 0.000012*)	37/37	37/37	0.0070～0.92	(0.00024*)					
			(2018)	39/47	39/47	0.000012～0.00026	(0.000012*)	61/61	61/61	0.0000099～0.034	(0.0000032*)	Bivalves 3/3 Fish 16/18 Birds 2/2	Bivalves 3/3 Fish 16/18 Birds 2/2	Bivalves 0.000013～0.00070 Fish 0.000012～0.00052 Birds 0.00022～0.00025	(Bivalves 0.000012*) (Fish 0.000012*) (Birds 0.000012*)	37/37	37/37	0.0053～0.59	(0.0002*)					
			(2018)	32/48	32/48	0.0000078～0.00026	(0.0000075*)	61/61	61/61	0.000013～0.058	(0.0000027*)	Bivalves 2/3 Fish 12/16 Birds 1/1	Bivalves 2/3 Fish 12/16 Birds 1/1	Bivalves 0.000096～0.00082 Fish 0.000019～0.00027 Birds 0.00017	(Bivalves 0.000015*) (Fish 0.000015*) (Birds 0.000015*)	36/36	36/36	0.0065～1.1	(0.0002*)					
			(2021)	29/47	29/47	0.000006～0.00017	(0.000006*)	59/60	59/60	0.0000096～0.014	(0.0000036*)	Bivalves 2/3 Fish 18/18 Birds 2/2	Bivalves 2/3 Fish 18/18 Birds 2/2	Bivalves 0.000060～0.00060 Fish 0.000014～0.00036 Birds 0.00025～0.00033	(Bivalves 0.000013*) (Fish 0.000013*) (Birds 0.000013*)	35/35	35/35	0.0053～1.0	(0.0003*)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
	(Total of Cl_2 - Cl_8)		(2014)													36/36	36/36	0.0032～1.5	(0.0007*)					
			(2015)									Bivalves 2/3 Fish 13/19 Birds 1/1	Bivalves 2/3 Fish 13/19 Birds 1/1	Bivalves 0.000067～0.00057 Fish 0.000016～0.00038 Birds 0.000020	(Bivalves 0.000014*) (Fish 0.000014*) (Birds 0.000014*)									
854-1	Monochloronaphthalenes	25586-43-0	2001	7/24	3/8	0.0000042～0.000012	(0.0000040)	11/24	6/8	0.0000012～0.000075	(0.0000008)													854-1
			2002									Fish 30/30	Fish 10/10	Fish 0.000005～0.00019	(Fish 0.000003)	21/33	10/11	0.0003～0.052	(0.0003)	Food 32/50		0.005～0.30ng/g-wet	(0.005)	
			2006									Bivalves 31/31 Fish 78/80 Birds 2/10	Bivalves 7/7 Fish 16/16 Birds 1/2	Bivalves 0.0000031～0.000012 Fish 0.0000021～0.000072 Birds 0.0000025～0.0000029	(Bivalves 0.0000017) (Fish 0.0000017) (Birds 0.0000017)									
			2008	7/44	7/44	0.0000070～0.000032	(0.0000070)	120/176	46/59	0.0000074～0.0015	(0.0000066)	Bivalves 14/31 Fish 41/85 Birds 5/10	Bivalves 5/7 Fish 11/17 Birds 1/2	Bivalves 0.00000095～0.0000073 Fish 0.0000011～0.00017 Birds 0.0000013～0.0000024	(Bivalves 0.00000066) (Fish 0.00000066) (Birds 0.00000066)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.011～0.55 C.S. 0.0074～0.82	(W.S. 0.0005) (C.S. 0.0005)					
			2014													36/36	36/36	0.0023～0.98	(0.0003)					
			2015									Bivalves 2/3 Fish 11/19 Birds 0/1	Bivalves 2/3 Fish 11/19 Birds 0/1	Bivalves 0.000008～0.000009 Fish 0.000005～0.000089 Birds －	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)									
			2016					44/62	44/62	0.000012～0.020	(0.000012)	Bivalves 1/3 Fish 8/19 Birds 0/2	Bivalves 1/3 Fish 8/19 Birds 0/2	Bivalves 0.000008 Fish 0.000006～0.000083 Birds －	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	37/37	37/37	0.0045～0.52	(0.00003)					
			2017					55/62	55/62	0.000006～0.0055	(0.000006)	Bivalves 2/3 Fish 16/19 Birds 1/2	Bivalves 2/3 Fish 16/19 Birds 1/2	Bivalves 0.000004～0.000021 Fish 0.000002～0.000029 Birds 0.000002	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0031～0.72	(0.00008)					
			2018	14/47	14/47	0.000005～0.00022	(0.000005)	60/61	60/61	0.000001～0.0045	(0.000001)	Bivalves 2/3 Fish 11/18 Birds 0/2	Bivalves 2/3 Fish 11/18 Birds 0/2	Bivalves 0.000006～0.000007 Fish 0.000003～0.000069 Birds －	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	37/37	37/37	0.0029～0.45	(0.00004)					
			2019	48/48	48/48	0.000001～0.000018	(0.000001)	57/61	57/61	0.0000009～0.00095	(0.0000009)	Bivalves 3/3 Fish 10/16 Birds 0/1	Bivalves 3/3 Fish 10/16 Birds 0/1	Bivalves 0.000002～0.000011 Fish 0.000002～0.000029 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	36/36	36/36	0.0040～0.800	(0.00003)					
			2021	41/47	41/47	0.000001～0.000013	(0.000001)	60/60	60/60	0.000001～0.00085	(0.000001)	Bivalves 3/3 Fish 12/18 Birds 0/2	Bivalves 3/3 Fish 12/18 Birds 0/2	Bivalves 0.000003～0.000033 Fish 0.000002～0.00012 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	35/35	35/35	0.0039～0.65	(0.00006)					
854-1-1	1-Chloronaphthalene	90-13-1	1977	0/6	0/2	－	(0.3～3)	0/6	0/2	－	(0.012～0.3)													854-1-1
			1986	0/33	0/11	－	(0.05)	0/30	0/10	－	(0.003)													
			2007													12/24	5/8	0.16～0.73	(0.15)					
854-1-2	2-Chloronaphthalene	91-58-7	1977	0/6	0/2	－	(0.3～3)	0/6	0/2	－	(0.012～0.3)													854-1-2
			1986	0/33	0/11	－	(0.05)	0/30	0/10	－	(0.003)													
			2006									Bivalves 15/31 Fish 28/80 Birds 0/10	Bivalves 5/7 Fish 8/16 Birds 0/2	Bivalves 0.0000020～0.0000044 Fish 0.0000017～0.000018 Birds －	(Bivalves 0.0000017) (Fish 0.0000017) (Birds 0.0000017)									
			2008	2/48	2/48	0.0000044～0.0000050	(0.0000040)	73/189	29/63	0.0000070～0.00042	(0.0000066)	Bivalves 1/31 Fish 14/75 Birds 0/5	Bivalves 1/7 Fish 4/15 Birds 0/2	Bivalves 0.0000035 Fish 0.0000034～0.000011 Birds －	(Bivalves 0.0000033) (Fish 0.0000033) (Birds 0.0000033)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.0023～0.071 C.S. 0.0032～0.099	(W.S. 0.000067) (C.S. 0.000067)					
854-2	Dichloronaphthalenes	28699-88-9	2001	3/24	1/8	0.0000059～0.0000076	(0.0000050)	15/24	6/8	0.0000021～0.0013	(0.0000009)													854-2
			2002									Fish 15/30	Fish 6/10	Fish 0.000003～0.00015	(Fish 0.000003)	28/33	11/11	0.00030～0.13	(0.0002)	Food 8/50		0.001～0.012ng/g-wet	(0.001)	
			2006									Bivalves 28/31 Fish 68/80 Birds 4/10	Bivalves 7/7 Fish 15/16 Birds 1/2	Bivalves 0.0000017～0.00022 Fish 0.0000016～0.000090 Birds 0.0000016～0.0000023	(Bivalves 0.0000016) (Fish 0.0000016) (Birds 0.0000016)									
			2008	14/45	14/45	0.0000027～0.000019	(0.0000023)	169/189	60/63	0.0000026～0.0055	(0.0000025)	Bivalves 28/31 Fish 67/85 Birds 0/10	Bivalves 7/7 Fish 15/17 Birds 0/2	Bivalves 0.0000010～0.00010 Fish 0.0000011～0.000057 Birds －	(Bivalves 0.00000098) (Fish 0.00000098) (Birds 0.00000098)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.0044～0.11 C.S. 0.0026～0.047	(W.S. 0.00021) (C.S. 0.00021)					
			2014													36/36	36/36	0.0010～0.24	(0.0004)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2015									Bivalves 2/3 Fish 11/19 Birds 0/1	Bivalves 2/3 Fish 11/19 Birds 0/1	Bivalves 0.000004～0.000037 Fish 0.000003～0.000024 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)									
			2016					54/62	54/62	0.0000037～0.024	(0.0000037)	Bivalves 2/3 Fish 17/19 Birds 0/2	Bivalves 2/3 Fish 17/19 Birds 0/2	Bivalves 0.000005～0.000085 Fish 0.000002～0.000029 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0023～0.16	(0.00002)					
			2017					62/62	62/62	0.0000023～0.0090	(0.0000004)	Bivalves 2/3 Fish 14/19 Birds 0/2	Bivalves 2/3 Fish 14/19 Birds 0/2	Bivalves 0.000004～0.00016 Fish 0.000002～0.000030 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0019～0.18	(0.00003)					
			2018	39/47	39/47	0.000004～0.000033	(0.000004)	60/61	60/61	0.0000008～0.0090	(0.0000004)	Bivalves 2/3 Fish 13/18 Birds 0/2	Bivalves 2/3 Fish 13/18 Birds 0/2	Bivalves 0.000003～0.000056 Fish 0.000002～0.000044 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0012～0.19	(0.00004)					
			2019	35/48	35/48	0.000001～0.000011	(0.000001)	56/61	56/61	0.0000007～0.0043	(0.0000006)	Bivalves 2/3 Fish 9/16 Birds 0/1	Bivalves 2/3 Fish 9/16 Birds 0/1	Bivalves 0.000005～0.000058 Fish 0.000003～0.000026 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	36/36	36/36	0.0013～0.25	(0.00002)					
			2021	31/47	31/47	0.0000009～0.000025	(0.0000009)	59/60	59/60	0.0000005～0.0037	(0.0000003)	Bivalves 2/3 Fish 13/18 Birds 0/2	Bivalves 2/3 Fish 13/18 Birds 0/2	Bivalves 0.000005～0.00014 Fish 0.000003～0.000049 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	35/35	35/35	0.00078～0.29	(0.00002)					
854-2-1	1,5-Dichloronaphthalene	1825-30-5	2006									Bivalves 5/31 Fish 22/80 Birds 0/10	Bivalves 1/7 Fish 5/16 Birds 0/2	Bivalves 0.000017～0.00013 Fish 0.0000021～0.000013 Birds －	(Bivalves 0.0000018) (Fish 0.0000018) (Birds 0.0000018)									854-2-1
			2008	0/44	0/44	－	(0.0000023)	123/189	47/63	0.0000026～0.0010	(0.0000025)	Bivalves 8/31 Fish 29/85 Birds 0/10	Bivalves 3/7 Fish 8/17 Birds 0/2	Bivalves 0.0000010～0.000017 Fish 0.0000011～0.000012 Birds －	(Bivalves 0.00000098) (Fish 0.00000098) (Birds 0.00000098)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.00056～0.015 C.S. 0.00048～0.0070	(W.S. 0.000029) (C.S. 0.000029)					
854-2-2	2,7-Dichloronaphthalene	2198-77-8	2006									Bivalves 11/31 Fish 29/80 Birds 0/10	Bivalves 3/7 Fish 6/16 Birds 0/2	Bivalves 0.0000016～0.000035 Fish 0.0000020～0.000018 Birds －	(Bivalves 0.0000016) (Fish 0.0000016) (Birds 0.0000016)									854-2-2
			2008	2/47	2/47	0.0000016～0.0000023	(0.0000011)	133/189	51/63	0.0000012～0.0014	(0.0000012)	Bivalves 9/31 Fish 36/85 Birds 0/10	Bivalves 3/7 Fish 9/17 Birds 0/2	Bivalves 0.0000010～0.000022 Fish 0.00000099～0.000040 Birds －	(Bivalves 0.00000098) (Fish 0.00000098) (Birds 0.00000098)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.00061～0.014 C.S. 0.00038～0.0081	(W.S. 0.000022) (C.S. 0.000022)					
854-3	Trichloronaphthalenes	1321-65-9	2001	10/24	4/8	0.0000050～0.000041	(0.0000050)	24/24	8/8	0.0000037～0.00073	(0.0000005)													854-3
			2002									Fish 17/30	Fish 7/10	Fish 0.000002～0.00097	(Fish 0.000002)	32/33	11/11	0.00038～0.16	(0.00005)	Food 17/50		0.001～0.008ng/g-wet	(0.001)	
			2006									Bivalves 31/31 Fish 59/80 Birds 10/10	Bivalves 7/7 Fish 13/16 Birds 2/2	Bivalves 0.0000020～0.00038 Fish 0.0000017～0.0011 Birds 0.0000015～0.0000024	(Bivalves 0.0000014) (Fish 0.0000014) (Birds 0.0000014)									
			2008	19/48	19/48	0.0000031～0.000055	(0.0000031)	171/189	58/63	0.0000038～0.0065	(0.0000033)	Bivalves 31/31 Fish 65/85 Birds 0/10	Bivalves 7/7 Fish 16/17 Birds 0/2	Bivalves 0.0000017～0.00041 Fish 0.0000012～0.00073 Birds －	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.0043～0.13 C.S. 0.0013～0.085	(W.S. 0.00031) (C.S. 0.00031)					
			2014													36/36	36/36	0.0011～0.35	(0.0001)					
			2015									Bivalves 2/3 Fish 9/19 Birds 0/1	Bivalves 2/3 Fish 9/19 Birds 0/1	Bivalves 0.000013～0.00014 Fish 0.000004～0.000045 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)									
			2016					62/62	62/62	0.0000009～0.023	(0.0000007)	Bivalves 2/3 Fish 11/19 Birds 1/2	Bivalves 2/3 Fish 11/19 Birds 1/2	Bivalves 0.000010～0.00020 Fish 0.000002～0.000046 Birds 0.000002	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.00070～0.039	(0.00002)					
			2017					62/62	62/62	0.0000011～0.0074	(0.0000005)	Bivalves 2/3 Fish 11/19 Birds 1/2	Bivalves 2/3 Fish 11/19 Birds 1/2	Bivalves 0.000014～0.00031 Fish 0.000002～0.000043 Birds 0.000002	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0012～0.15	(0.00002)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2018	46/47	46/47	0.0000006～0.000049	(0.0000006)	61/61	61/61	0.0000010～0.0075	(0.0000003)	Bivalves 3/3 Fish 13/18 Birds 2/2	Bivalves 3/3 Fish 13/18 Birds 2/2	Bivalves 0.000002～0.00016 Fish 0.000002～0.000051 Birds 0.000002～0.000007	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.00068～0.034	(0.00003)					
			2019	36/48	36/48	0.000001～0.00006	(0.000001)	61/61	61/61	0.0000012～0.017	(0.0000002)	Bivalves 2/3 Fish 9/16 Birds 1/1	Bivalves 2/3 Fish 9/16 Birds 1/1	Bivalves 0.000026～0.00018 Fish 0.000002～0.000022 Birds 0.000002	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	36/36	36/36	0.00069～0.030	(0.00002)					
			2021	32/47	32/47	0.0000007～0.000047	(0.0000007)	59/60	59/60	0.0000009～0.0031	(0.0000006)	Bivalves 2/3 Fish 13/18 Birds 2/2	Bivalves 2/3 Fish 13/18 Birds 2/2	Bivalves 0.000014～0.00017 Fish 0.000002～0.000026 Birds 0.000002～0.000005	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	35/35	35/35	0.00032～0.032	(0.00001)					
854-3-1	1,2,3-Trichloronaphthalene	50402-52-3	2006									Bivalves 9/31 Fish 6/80 Birds 0/10	Bivalves 2/7 Fish 2/16 Birds 0/2	Bivalves 0.0000015～0.0000050 Fish 0.0000014～0.0000019 Birds －	(Bivalves 0.0000014) (Fish 0.0000014) (Birds 0.0000014)									854-3-1
			2008	0/44	0/44	－	(0.0000029)	51/189	21/63	0.0000034～0.000048	(0.0000033)	Bivalves 6/31 Fish 6/85 Birds 0/10	Bivalves 2/7 Fish 2/17 Birds 0/2	Bivalves 0.0000014～0.0000024 Fish 0.0000014～0.0000022 Birds －	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.00024～0.003 C.S. 0.00015～0.0024	(W.S. 0.000018) (C.S. 0.000018)					
854-4	Tetrachloronaphthalenes	1335-88-2	2001	5/24	2/8	0.0000087～0.000039	(0.0000080)	24/24	8/8	0.000014～0.0017	(0.0000010)													854-4
			2002									Fish 28/30	Fish 10/10	Fish 0.000003～0.00076	(Fish 0.000003)	27/33	10/11	0.001～0.2	(0.0005)	Food 13/50		0.001～0.005ng/g-wet	(0.001)	
			2006									Bivalves 31/31 Fish 80/80 Birds 10/10	Bivalves 7/7 Fish 16/16 Birds 2/2	Bivalves 0.0000082～0.00043 Fish 0.0000017～0.0013 Birds 0.0000027～0.0000091	(Bivalves 0.00000036) (Fish 0.00000036) (Birds 0.00000036)									
			2008	25/48	25/48	0.0000048～0.000098	(0.0000047)	178/189	62/63	0.0000049～0.0058	(0.0000048)	Bivalves 31/31 Fish 84/85 Birds 6/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.0000052～0.00057 Fish 0.0000022～0.0010 Birds 0.0000031～0.0000088	(Bivalves 0.0000019) (Fish 0.0000019) (Birds 0.0000019)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.0030～0.13 C.S. 0.00089～0.19	(W.S. 0.00014) (C.S. 0.00014)					
			2014													36/36	36/36	0.0007～1.0	(0.0001)					
			2015									Bivalves 2/3 Fish 16/19 Birds 1/1	Bivalves 2/3 Fish 16/19 Birds 1/1	Bivalves 0.000035～0.00028 Fish 0.000003～0.00016 Birds 0.000009	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)									
			2016					62/62	62/62	0.0000034～0.052	(0.0000010)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.000002～0.00033 Fish 0.000002～0.00013 Birds 0.000022～0.00015	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.0003～0.042	(0.0001)					
			2017					62/62	62/62	0.0000057～0.0059	(0.0000005)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000002～0.00063 Fish 0.000003～0.00014 Birds 0.000007～0.00017	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	37/37	37/37	0.00054～0.12	(0.00004)					
			2018	47/47	47/47	0.0000013～0.00012	(0.0000004)	61/61	61/61	0.0000048～0.0057	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000003～0.00033 Fish 0.000002～0.00016 Birds 0.000087～0.00013	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00040～0.033	(0.00003)					
			2019	22/48	22/48	0.000002～0.00017	(0.000002)	61/61	61/61	0.0000071～0.026	(0.0000002)	Bivalves 2/3 Fish 15/16 Birds 1/1	Bivalves 2/3 Fish 15/16 Birds 1/1	Bivalves 0.000048～0.00038 Fish 0.000003～0.000096 Birds 0.000066	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	36/36	36/36	0.0004～0.028	(0.00004)					
			2021	33/47	33/47	0.0000006～0.000077	(0.0000005)	60/60	60/60	0.0000011～0.0049	(0.0000003)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000002～0.00019 Fish 0.000002～0.00013 Birds 0.00012～0.00017	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	35/35	35/35	0.00026～0.022	(0.00003)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
854-4-1	1,2,3,4-Tetrachloronaphthalene	20020-02-4	2006									Bivalves 11/31 Fish 11/80 Birds 0/10	Bivalves 3/7 Fish 4/16 Birds 0/2	Bivalves 0.0000014～0.0000033 Fish 0.0000014～0.000014 Birds －	(Bivalves 0.0000014) (Fish 0.0000014) (Birds 0.0000014)									854-4-1
			2008	0/48	0/48	－	(0.0000025)	58/189	27/63	0.0000036～0.000047	(0.0000034)	Bivalves 7/31 Fish 14/85 Birds 0/10	Bivalves 3/7 Fish 4/17 Birds 0/2	Bivalves 0.0000013～0.0000043 Fish 0.0000011～0.0000093 Birds －	(Bivalves 0.0000010) (Fish 0.0000010) (Birds 0.0000010)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.00015～0.0048 C.S. 0.000059～0.0023	(W.S. 0.000024) (C.S. 0.000024)					
854-4-2	1,2,3,8-Tetrachloronaphthalene		2006									Bivalves 0/31 Fish 0/80 Birds 0/10	Bivalves 0/7 Fish 0/16 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.0000016) (Fish 0.0000016) (Birds 0.0000016)									854-4-2
			2008	0/44	0/44	－	(0.0000037)	6/189	5/63	0.0000037～0.0000065	(0.0000033)	Bivalves 0/31 Fish 0/85 Birds 0/10	Bivalves 0/7 Fish 0/17 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.0000017) (Fish 0.0000017) (Birds 0.0000017)	W.S. 12/22 C.S. 16/36	W.S. 12/22 C.S. 16/36	W.S. 0.000037～0.00020 C.S. 0.000037～0.00014	(W.S. 0.000036) (C.S. 0.000036)					
854-4-3	Total of 1,2,5,6-Tetrachloronaphthalene and 1,2,3,5-Tetrachloronaphthalene	67922-22-9 53555-63-8	2006									Bivalves 28/31 Fish 46/80 Birds 1/10	Bivalves 7/7 Fish 12/16 Birds 1/2	Bivalves 0.00000039～0.000013 Fish 0.00000036～0.000023 Birds 0.00000041	(Bivalves 0.00000036) (Fish 0.00000036) (Birds 0.00000036)									854-4-3
			2008	0/44	0/44	－	(0.0000044)	134/189	50/63	0.0000036～0.00025	(0.0000035)	Bivalves 21/31 Fish 28/85 Birds 0/10	Bivalves 5/7 Fish 7/17 Birds 0/2	Bivalves 0.0000018～0.000024 Fish 0.0000021～0.000017 Birds －	(Bivalves 0.0000016) (Fish 0.0000016) (Birds 0.0000016)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.00023～0.0038 C.S. 0.00011～0.0056	(W.S. 0.000032) (C.S. 0.000032)					
854-4-4	1,4,5,8-Tetrachloronaphthalene	3432-57-3	2006									Bivalves 16/31 Fish 22/80 Birds 0/10	Bivalves 4/7 Fish 5/16 Birds 0/2	Bivalves 0.0000012～0.000011 Fish 0.00000095～0.00013 Birds －	(Bivalves 0.00000095) (Fish 0.00000095) (Birds 0.00000095)									854-4-4
			2008	4/45	4/45	0.0000043～0.000018	(0.0000042)	131/189	50/63	0.0000048～0.00038	(0.0000048)	Bivalves 11/31 Fish 14/85 Birds 0/10	Bivalves 3/7 Fish 4/17 Birds 0/2	Bivalves 0.0000030～0.000018 Fish 0.0000020～0.000078 Birds －	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 22/22 C.S. 35/36	W.S. 22/22 C.S. 35/36	W.S. 0.00011～0.018 C.S. 0.000053～0.0094	(W.S. 0.000041) (C.S. 0.000041)					
854-4-5	2,3,6,7-Tetrachloronaphthalene	34588-40-4	2006									Bivalves 0/31 Fish 5/80 Birds 0/10	Bivalves 0/7 Fish 3/16 Birds 0/2	Bivalves － Fish 0.0000075～0.000018 Birds －	(Bivalves 0.0000018) (Fish 0.0000018) (Birds 0.0000018)									854-4-5
			2008	0/44	0/44	－	(0.0000037)	9/189	5/63	0.0000030～0.00011	(0.0000030)	Bivalves 1/31 Fish 0/85 Birds 0/10	Bivalves 1/7 Fish 0/17 Birds 0/2	Bivalves 0.0000012 Fish － Birds －	(Bivalves 0.00000090) (Fish 0.00000090) (Birds 0.00000090)	W.S. 20/37 C.S. 25/37	W.S. 20/37 C.S. 25/37	W.S. 0.000019～0.00011 C.S. 0.000016～0.000085	(W.S. 0.000013) (C.S. 0.000013)					
854-5	Pentachloronaphthalenes	1321-64-8	2001	1/24	1/8	0.000013	(0.0000080)	22/24	8/8	0.0000020～0.0011	(0.0000020)													854-5
			2002									Fish 29/30	Fish 10/10	Fish 0.000003～0.00026	(Fish 0.000003)	26/33	10/11	0.00002～0.021	(0.00002)	Food 5/50		0.001～0.002ng/g-wet	(0.001)	
			2006									Bivalves 31/31 Fish 74/80 Birds 5/10	Bivalves 7/7 Fish 16/16 Birds 1/2	Bivalves 0.0000030～0.00012 Fish 0.0000017～0.00022 Birds 0.0000041～0.0000065	(Bivalves 0.0000017) (Fish 0.0000017) (Birds 0.0000017)									
			2008	13/45	13/45	0.0000036～0.000016	(0.0000031)	181/189	61/63	0.0000024～0.0048	(0.0000019)	Bivalves 31/31 Fish 82/85 Birds 6/10	Bivalves 7/7 Fish 17/17 Birds 2/2	Bivalves 0.0000023～0.00019 Fish 0.0000022～0.00029 Birds 0.0000027～0.0000076	(Bivalves 0.0000019) (Fish 0.0000019) (Birds 0.0000019)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.00058～0.010 C.S. 0.00016～0.0091	(W.S. 0.000050) (C.S. 0.000050)					
			2014													36/36	36/36	0.00006～0.050	(0.00001)					
			2015									Bivalves 2/3 Fish 17/19 Birds 1/1	Bivalves 2/3 Fish 17/19 Birds 1/1	Bivalves 0.000016～0.00010 Fish 0.000002～0.00012 Birds 0.000007	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)									
			2016					60/62	60/62	0.0000009～0.028	(0.0000009)	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 3/3 Fish 18/19 Birds 2/2	Bivalves 0.000003～0.00014 Fish 0.000003～0.000099 Birds 0.000020～0.00013	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	36/37	36/37	0.00009～0.0077	(0.00006)					
			2017					62/62	62/62	0.0000005～0.0033	(0.0000005)	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 3/3 Fish 19/19 Birds 2/2	Bivalves 0.000001～0.00028 Fish 0.000001～0.00011 Birds 0.000007～0.00021	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00005～0.014	(0.00002)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2018	45/47	45/47	0.0000005～0.000073	(0.0000005)	61/61	61/61	0.0000022～0.0046	(0.0000004)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000002～0.00013 Fish 0.000003～0.00015 Birds 0.000092～0.000093	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00004～0.011	(0.00001)					
			2019	23/48	23/48	0.0000007～0.00005	(0.0000006)	61/61	61/61	0.0000033～0.0068	(0.0000002)	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 3/3 Fish 16/16 Birds 1/1	Bivalves 0.000002～0.00017 Fish 0.000003～0.000076 Birds 0.000068	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	36/36	36/36	0.00005～0.0057	(0.00003)					
			2021	21/47	21/47	0.0000007～0.000038	(0.0000006)	60/60	60/60	0.0000008～0.0030	(0.0000002)	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 3/3 Fish 18/18 Birds 2/2	Bivalves 0.000003～0.000061 Fish 0.000002～0.000089 Birds 0.00010～0.00012	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	33/35	33/35	0.00007～0.0040	(0.00005)					
854-5-1	1,2,3,4,6-Pentachloronaphthalene	67922-26-3	2006									Bivalves 5/31 Fish 3/80 Birds 0/10	Bivalves 1/7 Fish 1/16 Birds 0/2	Bivalves 0.0000026～0.0000044 Fish 0.0000019～0.0000023 Birds －	(Bivalves 0.0000018) (Fish 0.0000018) (Birds 0.0000018)									854-5-1
			2008	0/45	0/45	－	(0.0000028)	125/189	49/63	0.0000018～0.00016	(0.0000018)	Bivalves 6/31 Fish 12/85 Birds 0/10	Bivalves 2/7 Fish 5/17 Birds 0/2	Bivalves 0.0000036～0.0000077 Fish 0.0000012～0.0000038 Birds －	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 22/22 C.S. 33/36	W.S. 22/22 C.S. 33/36	W.S. 0.000034～0.00069 C.S. 0.000025～0.00053	(W.S. 0.000024) (C.S. 0.000024)					
854-5-2	1,2,3,5,7-Pentachloronaphthalene	53555-65-0	2006									Bivalves 23/31 Fish 61/80 Birds 5/10	Bivalves 6/7 Fish 14/16 Birds 1/2	Bivalves 0.0000019～0.000031 Fish 0.0000018～0.00012 Birds 0.0000028～0.0000035	(Bivalves 0.0000017) (Fish 0.0000017) (Birds 0.0000017)									854-5-2
			2008	1/45	1/45	0.0000027	(0.0000026)	151/189	55/63	0.0000022～0.00061	(0.0000019)	Bivalves 31/31 Fish 85/85 Birds 5/10	Bivalves 7/7 Fish 17/17 Birds 1/2	Bivalves 0.0000010～0.000040 Fish 0.0000011～0.00014 Birds 0.0000027～0.0000036	(Bivalves 0.00000087) (Fish 0.00000087) (Birds 0.00000087)	W.S. 22/22 C.S. 36/36	W.S. 22/22 C.S. 36/36	W.S. 0.000083～0.0013 C.S. 0.000036～0.0015	(W.S. 0.000020) (C.S. 0.000020)					
854-5-3	1,2,3,5,8-Pentachloronaphthalene		2006									Bivalves 6/31 Fish 28/80 Birds 0/10	Bivalves 2/7 Fish 7/16 Birds 0/2	Bivalves 0.0000043～0.0000078 Fish 0.0000013～0.000010 Birds －	(Bivalves 0.0000013) (Fish 0.0000013) (Birds 0.0000013)									854-5-3
			2008	0/44	0/44	－	(0.0000031)	146/189	54/63	0.0000020～0.00065	(0.0000019)	Bivalves 6/31 Fish 18/85 Birds 0/10	Bivalves 2/7 Fish 5/17 Birds 0/2	Bivalves 0.0000048～0.000015 Fish 0.0000019～0.000013 Birds －	(Bivalves 0.0000019) (Fish 0.0000019) (Birds 0.0000019)	W.S. 20/22 C.S. 24/36	W.S. 20/22 C.S. 24/36	W.S. 0.000051～0.0010 C.S. 0.000055～0.00070	(W.S. 0.000050) (C.S. 0.000050)					
854-6	Hexachloronaphthalenes	1335-87-1	2001	0/24	0/8	－	(0.000019)	18/24	6/8	0.000005～0.00018	(0.000004)													854-6
			2002									Fish 17/30	Fish 7/10	Fish 0.000004～0.000044	(Fish 0.000003)	21/33	8/11	0.00010～0.0031	(0.00008)	Food 0/50		－ng/g-wet	(0.001)	
			2006									Bivalves 8/31 Fish 50/80 Birds 10/10	Bivalves 3/7 Fish 12/16 Birds 2/2	Bivalves 0.0000012～0.000011 Fish 0.0000012～0.000076 Birds 0.0000016～0.0000060	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)									
			2008	3/45	3/45	0.0000038～0.0000057	(0.0000033)	150/189	55/63	0.0000039～0.0039	(0.0000037)	Bivalves 6/31 Fish 54/85 Birds 10/10	Bivalves 2/7 Fish 13/17 Birds 2/2	Bivalves 0.0000066～0.000026 Fish 0.0000012～0.000092 Birds 0.0000017～0.0000057	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 22/22 C.S. 33/36	W.S. 22/22 C.S. 33/36	W.S. 0.000038～0.0011 C.S. 0.000037～0.00070	(W.S. 0.000036) (C.S. 0.000036)					
			2014													32/36	32/36	0.00002～0.00099	(0.00002)					
			2015									Bivalves 1/3 Fish 8/19 Birds 1/1	Bivalves 1/3 Fish 8/19 Birds 1/1	Bivalves 0.000007 Fish 0.000002～0.000031 Birds 0.000003	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)									
			2016					55/62	55/62	0.0000007～0.0070	(0.0000006)	Bivalves 1/3 Fish 10/19 Birds 2/2	Bivalves 1/3 Fish 10/19 Birds 2/2	Bivalves 0.000019 Fish 0.000003～0.000024 Birds 0.000005～0.000035	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	36/37	36/37	0.00002～0.0012	(0.00001)					
			2017					55/62	55/62	0.0000009～0.0023	(0.0000006)	Bivalves 1/3 Fish 14/19 Birds 2/2	Bivalves 1/3 Fish 14/19 Birds 2/2	Bivalves 0.000019 Fish 0.000001～0.000024 Birds 0.000002～0.000074	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	37/37	37/37	0.00001～0.0012	(0.00001)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2018	23/47	23/47	0.0000004～0.000011	(0.0000004)	58/61	58/61	0.0000003～0.0025	(0.0000003)	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 1/3 Fish 17/18 Birds 2/2	Bivalves 0.000013 Fish 0.000001～0.000041 Birds 0.000017～0.000039	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	36/37	36/37	0.00001～0.0025	(0.00001)					
			2019	5/48	5/48	0.0000009～0.000032	(0.0000008)	56/61	56/61	0.0000003～0.0023	(0.0000003)	Bivalves 1/3 Fish 14/16 Birds 1/1	Bivalves 1/3 Fish 14/16 Birds 1/1	Bivalves 0.000016 Fish 0.000001～0.000021 Birds 0.000035	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	33/36	33/36	0.00003～0.0011	(0.00003)					
			2021	4/47	4/47	0.0000021～0.000032	(0.0000009)	53/60	53/60	0.0000005～0.0012	(0.0000005)	Bivalves 3/3 Fish 16/18 Birds 2/2	Bivalves 3/3 Fish 16/18 Birds 2/2	Bivalves 0.000001～0.000005 Fish 0.000001～0.000031 Birds 0.000030～0.000036	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	28/35	28/35	0.00006～0.00042	(0.00006)					
854-6-1	1,2,3,4,6,7-Hexachloronaphthalene		2006									Bivalves 0/31 Fish 33/80 Birds 10/10	Bivalves 0/7 Fish 9/16 Birds 2/2	Bivalves － Fish 0.0000012～0.000016 Birds 0.0000015～0.0000060	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)									854-6-1
			2008	0/44	0/44	－	(0.0000033)	126/189	47/63	0.0000017～0.00026	(0.0000016)	Bivalves 6/31 Fish 43/85 Birds 10/10	Bivalves 2/7 Fish 10/17 Birds 2/2	Bivalves 0.0000010～0.0000020 Fish 0.0000010～0.000018 Birds 0.0000015～0.0000057	(Bivalves 0.00000098) (Fish 0.00000098) (Birds 0.00000098)	W.S. 21/22 C.S. 36/36	W.S. 21/22 C.S. 36/36	W.S. 0.000017～0.00027 C.S. 0.000012～0.00026	(W.S. 0.000008) (C.S. 0.000008)					
854-6-2	1,2,3,5,7,8-Hexachloronaphthalene		2006									Bivalves 1/31 Fish 17/80 Birds 0/10	Bivalves 1/7 Fish 5/16 Birds 0/2	Bivalves 0.0000019 Fish 0.0000026～0.000025 Birds －	(Bivalves 0.0000016) (Fish 0.0000016) (Birds 0.0000016)									854-6-2
			2008	0/45	0/45	－	(0.0000033)	130/189	50/63	0.0000018～0.00091	(0.0000017)	Bivalves 6/31 Fish 26/85 Birds 0/10	Bivalves 2/7 Fish 6/17 Birds 0/2	Bivalves 0.0000011～0.0000057 Fish 0.00000098～0.000027 Birds －	(Bivalves 0.00000097) (Fish 0.00000097) (Birds 0.00000097)	W.S. 16/22 C.S. 22/36	W.S. 16/22 C.S. 22/36	W.S. 0.000026～0.00018 C.S. 0.000021～0.00014	(W.S. 0.000020) (C.S. 0.000020)					
854-6-3	1,2,4,5,7,8-Hexachloronaphthalene		2006									Bivalves 4/31 Fish 22/80 Birds 0/10	Bivalves 1/7 Fish 6/16 Birds 0/2	Bivalves 0.0000021～0.0000030 Fish 0.0000016～0.000020 Birds －	(Bivalves 0.0000016) (Fish 0.0000016) (Birds 0.0000016)									854-6-3
			2008	0/45	0/45	－	(0.0000030)	105/189	41/63	0.0000040～0.0012	(0.0000037)	Bivalves 6/31 Fish 23/85 Birds 0/10	Bivalves 2/7 Fish 5/17 Birds 0/2	Bivalves 0.0000013～0.0000071 Fish 0.0000012～0.000022 Birds －	(Bivalves 0.0000011) (Fish 0.0000011) (Birds 0.0000011)	W.S. 15/22 C.S. 13/36	W.S. 15/22 C.S. 13/36	W.S. 0.000037～0.00028 C.S. 0.000037～0.00020	(W.S. 0.000036) (C.S. 0.000036)					
854-7	Heptachloronaphthalenes	32241-08-0	2001	0/24	0/8	－	(0.0000080)	12/24	4/8	0.000005～0.000066	(0.000005)													854-7
			2002									Fish 2/30	Fish 1/10	Fish 0.000003	(Fish 0.000003)	9/33	6/11	0.0002～0.0009	(0.0001)	Food 0/50		－ng/g-wet	(0.001)	
			2006									Bivalves 4/31 Fish 7/80 Birds 0/10	Bivalves 1/7 Fish 3/16 Birds 0/2	Bivalves 0.00000096～0.0000018 Fish 0.00000091～0.0000019 Birds －	(Bivalves 0.00000085) (Fish 0.00000085) (Birds 0.00000085)									
			2008	0/48	0/48	－	(0.0000027)	113/189	44/63	0.0000032～0.00076	(0.0000031)	Bivalves 3/31 Fish 3/85 Birds 0/10	Bivalves 1/7 Fish 1/17 Birds 0/2	Bivalves 0.0000016～0.0000035 Fish 0.0000013～0.0000077 Birds －	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 13/22 C.S. 22/36	W.S. 13/22 C.S. 22/36	W.S. 0.000037～0.00013 C.S. 0.000042～0.00018	(W.S. 0.000032) (C.S. 0.000032)					
			2014													22/36	22/36	0.00002～0.00019	(0.00002)					
			2015									Bivalves 0/3 Fish 1/19 Birds 0/1	Bivalves 0/3 Fish 1/19 Birds 0/1	Bivalves － Fish 0.000002 Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)									
			2016					50/62	50/62	0.0000004～0.00086	(0.0000003)	Bivalves 1/3 Fish 0/19 Birds 0/2	Bivalves 1/3 Fish 0/19 Birds 0/2	Bivalves 0.000004 Fish － Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	18/37	18/37	0.00002～0.00011	(0.00002)					
			2017					52/62	52/62	0.0000003～0.00068	(0.0000003)	Bivalves 1/3 Fish 2/19 Birds 0/2	Bivalves 1/3 Fish 2/19 Birds 0/2	Bivalves 0.000001 Fish 0.000001 Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	12/37	12/37	0.00003～0.00010	(0.00003)					
			2018	6/47	6/47	0.0000008～0.0000032	(0.0000008)	55/61	55/61	0.0000003～0.0008	(0.0000002)	Bivalves 1/3 Fish 1/18 Birds 0/2	Bivalves 1/3 Fish 1/18 Birds 0/2	Bivalves 0.000001 Fish 0.000001 Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	29/37	29/37	0.000010～0.000065	(0.000009)					
			2019	3/48	3/48	0.0000008～0.000014	(0.0000006)	57/61	57/61	0.0000001～0.00061	(0.0000001)	Bivalves 0/3 Fish 0/16 Birds 0/1	Bivalves 0/3 Fish 0/16 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	22/36	22/36	0.00002～0.00008	(0.00002)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2021	5/47	5/47	0.0000005～0.000014	(0.0000004)	49/60	49/60	0.0000003～0.00032	(0.0000003)	Bivalves 1/3 Fish 2/18 Birds 0/2	Bivalves 1/3 Fish 2/18 Birds 0/2	Bivalves 0.000001 Fish 0.000001 Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	32/35	32/35	0.00001～0.00012	(0.00001)					
854-7-1	1,2,3,4,5,6,7-Heptachloronaphthalene		2006									Bivalves 1/31 Fish 2/80 Birds 0/10	Bivalves 1/7 Fish 1/16 Birds 0/2	Bivalves 0.00000085 Fish 0.00000086～0.00000095 Birds －	(Bivalves 0.00000085) (Fish 0.00000085) (Birds 0.00000085)									854-7-1
			2008	0/48	0/48	－	(0.0000027)	91/189	37/63	0.0000031～0.00035	(0.0000031)	Bivalves 1/31 Fish 1/85 Birds 0/10	Bivalves 1/7 Fish 1/17 Birds 0/2	Bivalves 0.0000021 Fish 0.0000034 Birds －	(Bivalves 0.0000012) (Fish 0.0000012) (Birds 0.0000012)	W.S. 9/22 C.S. 20/36	W.S. 19/22 C.S. 20/36	W.S. 0.000034～0.000089 C.S. 0.000033～0.00014	(W.S. 0.000032) (C.S. 0.000032)					
854-8	Octachloronaphthalene	2234-13-1	2001	0/24	0/8	－	(0.000020)	6/24	3/8	0.000006～0.000075	(0.000005)													854-8
			2002									Fish 0/30	Fish 0/10	Fish －	(Fish 0.000002)	2/33	2/11	0.0008～0.0035	(0.0006)	Food 0/50		－ng/g-wet	(0.001)	
			2006									Bivalves 0/31 Fish 0/80 Birds 0/10	Bivalves 0/7 Fish 0/16 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.0000017) (Fish 0.0000017) (Birds 0.0000017)									
			2008	0/44	0/44	－	(0.0000038)	52/189	23/63	0.0000045～0.00020	(0.0000044)	Bivalves 1/31 Fish 0/85 Birds 0/10	Bivalves 1/7 Fish 0/17 Birds 0/2	Bivalves 0.0000011 Fish － Birds －	(Bivalves 0.0000010) (Fish 0.0000010) (Birds 0.0000010)	W.S. 5/22 C.S. 18/36	W.S. 5/22 C.S. 18/36	W.S. 0.000041～0.00017 C.S. 0.000039～0.00017	(W.S. 0.000038) (C.S. 0.000038)					
			2014													12/36	12/36	0.00003～0.00039	(0.00002)					
			2015									Bivalves 0/3 Fish 0/19 Birds 0/1	Bivalves 0/3 Fish 0/19 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)									
			2016					44/62	44/62	0.0000003～0.00019	(0.0000003)	Bivalves 1/3 Fish 0/19 Birds 0/2	Bivalves 1/3 Fish 0/19 Birds 0/2	Bivalves 0.000003 Fish － Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	10/37	10/37	0.00002～0.00036	(0.00002)					
			2017					43/62	43/62	0.0000003～0.00027	(0.0000003)	Bivalves 0/3 Fish 0/19 Birds 0/2	Bivalves 0/3 Fish 0/19 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	33/37	33/37	0.00001～0.00015	(0.00001)					
			2018	4/47	4/47	0.0000003～0.0000004	(0.0000003)	45/61	45/61	0.0000003～0.00023	(0.0000003)	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	13/37	13/37	0.00002～0.00012	(0.00002)					
			2019	1/48	1/48	0.0000031	(0.0000005)	43/61	43/61	0.0000004～0.00018	(0.0000002)	Bivalves 0/3 Fish 0/16 Birds 0/1	Bivalves 0/3 Fish 0/16 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	12/36	12/36	0.00002～0.00014	(0.00002)					
			2021	2/47	2/47	0.0000011～0.0000020	(0.0000008)	46/60	46/60	0.0000004～0.00023	(0.0000004)	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves 0/3 Fish 0/18 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	32/35	32/35	0.00001～0.00049	(0.00001)					
855	Polychloroterphenyls	61788-33-8	1974	0/60	0/12	－	(0.1～1)	0/60	0/12	－	(0.05～0.2)	Fish 3/11	Fish 1/3	Fish 0.05～0.12	(Fish 0.05～0.2)									855
			1976	0/156	0/71	－	(0.01～1)	21/150	15/71	0.001～0.33	(0.001～0.2)	Fish 0/39	Fish 0/18	Fish －	(Fish 0.001～0.2)									
			1978	0/75	0/25	－	(0.002～2.5)	37/75	15/25	0.001～4.7	(0.001～1.0)	Fish 3/66	Fish 2/19	Fish 0.0003～0.003	(Fish 0.0002～0.1)									
												Bivalves 0/10 Fish 0/30 Birds 0/6	Bivalves 0/2 Fish 0/6 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.1)									
			2000													21/24	7/8	0.0015～0.0060	(0.001)					
			(2002)	1/30	1/10	0.00044	(0.000013)	27/30	9/10	0.00059～0.14	(0.0000091)	Fish 6/6	Fish 2/2	Fish 0.000015～0.00054	(Fish 0.0000078)									
855-1	Monochloroterphenyls		2000													21/24	7/8	0.00092～0.0060	(0.0001)					855-1
			2002	0/30	0/10	－	(0.000013)	12/27	4/9	0.000052～0.00084	(0.000019)	Fish 3/6	Fish 1/2	Fish 0.000015～0.000017	(Fish 0.0000078)									
855-1-1	4-Monochloro-*o*-terphenyl		2002	0/30	0/10	－	(0.000023)	7/24	3/8	0.000031～0.00018	(0.000029)	Fish 3/6	Fish 1/2	Fish 0.000015～0.000017	(Fish 0.0000078)									855-1-1
855-1-2	4-Monochloro-*p*-tephenyl		2002	0/30	0/10	－	(0.000013)	6/24	3/8	0.000032～0.000098	(0.000019)	Fish 0/6	Fish 0/2	Fish －	(Fish 0.000026)									855-1-2
855-2	Dichloroterphenyls		2000													4/24	3/8	0.00055～0.0011	(0.00053)					855-2
			2002	0/30	0/10	－	(0.000016)	11/27	4/9	0.000040～0.0026	(0.000019)	Fish 0/6	Fish 0/2	Fish －	(Fish 0.000016)									
	(Total of 2,4-dichloro-*p*-isomer and 2,5-dichloro-*p*-isomer)		2002	0/24	0/8	－	(0.000023)	2/21	1/7	0.000022～0.00012	(0.000021)	Fish 0/6	Fish 0/2	Fish －	(Fish 0.000016)									
855-2-1	2,5-Dichloro-*o*-terphenyl		2002	0/30	0/10	－	(0.000021)	0/21	0/7	－	(0.000019)	Fish 0/6	Fish 0/2	Fish －	(Fish 0.000016)									855-2-1
855-2-2	2,5-Dichloro-*m*-terphenyl		2002	0/27	0/9	－	(0.000016)	2/21	1/7	0.000023～0.00013	(0.000019)	Fish 0/6	Fish 0/2	Fish －	(Fish 0.000016)									855-2-2
855-3	Trichloroterphenyls		2000													0/24	0/8	－	(0.0073)					855-3
			2002	0/30	0/10	－	(0.000022)	6/30	2/10	0.000068～0.00053	(0.0000091)	Fish 0/6	Fish 0/2	Fish －	(Fish 0.0000078)									
855-3-1	2,4,6-Trichloro-*p*-terphenyl		2002	0/30	0/10	－	(0.000022)	0/24	0/8	－	(0.0000091)	Fish 0/6	Fish 0/2	Fish －	(Fish 0.0000078)									855-3-1
855-4	Tetrachloroterphenyls		2000													0/24	0/8	－	(0.0072)					855-4
			2002	1/30	1/10	0.000045	(0.000024)	6/30	2/10	0.000086～0.0010	(0.000017)	Fish 0/6	Fish 0/2	Fish －	(Fish 0.000020)									
855-4-1	2,3,5,6-Tetrachloro-*p*-terphenyl		2002	0/30	0/10	－	(0.000024)	2/24	1/8	0.000017～0.00010	(0.000017)	Fish 0/6	Fish 0/2	Fish －	(Fish 0.000020)									855-4-1
855-4-2	2,4,4",6-Tetrachloro-*p*-terphenyl		2002	0/30	0/10	－	(0.000026)	3/24	1/8	0.000041～0.00031	(0.000019)	Fish 0/6	Fish 0/2	Fish －	(Fish 0.000020)									855-4-2

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
855-5	Pentachloroterphenyls		2000													0/24	0/8	—	(0.0010)					855-5
			2002	1/30	1/10	0.00039	(0.000024)	3/30	1/10	0.000044～0.00041	(0.000020)	Fish 0/6	Fish 0/2	Fish —	(Fish 0.000021)									
855-5-1	2,3,4,5,6-Pentachloro-*p*-terphenyl		2002	1/30	1/10	0.00039	(0.000024)	0/30	0/10	—	(0.000020)	Fish 0/6	Fish 0/2	Fish —	(Fish 0.000021)									855-5-1
855-6	Hexachloroterphenyls		2002	0/30	0/10	—	(0.00042)	17/30	6/10	0.00017～0.0029	(0.000039～0.00019)	Fish 0/6	Fish 0/2	Fish —	(Fish 0.000077～0.000096)									855-6
855-7	Heptachloroterphenyls		2002	0/30	0/10	—	(0.00042)	27/30	9/10	0.000078～0.0057	(0.000039～0.00019)	Fish 3/6	Fish 1/2	Fish 0.00020～0.00026	(Fish 0.000077～0.000096)									855-7
855-8	Octachloroterphenyl		2002	0/30	0/10	—	(0.00042)	27/30	9/10	0.000080～0.041	(0.000039～0.00019)	Fish 3/6	Fish 1/2	Fish 0.00012～0.00017	(Fish 0.000077～0.000096)									855-8
855-9	Nonachloroterphenyls		2002	0/30	0/10	—	(0.00042)	27/30	9/10	0.00025～0.072	(0.000039～0.00019)	Fish 3/6	Fish 1/2	Fish 0.000084～0.00011	(Fish 0.000077～0.000096)									855-9
855-10	Decachloroterphenyl		2002	0/30	0/10	—	(0.00042)	27/30	9/10	0.00017～0.022	(0.000039～0.00019)	Fish 0/6	Fish 0/2	Fish —	(Fish 0.000077～0.000096)									855-10
855-11	Hendecachloroterphenyls		2002	0/30	0/10	—	(0.00042)	16/30	6/10	0.00010～0.0016	(0.000039～0.00019)	Fish 0/6	Fish 0/2	Fish —	(Fish 0.000077～0.000096)									855-11
855-12	Dodeca hloroterphenyls		2002	0/30	0/10	—	(0.00042)	0/30	0/10	—	(0.000039～0.00019)	Fish 0/6	Fish 0/2	Fish —	(Fish 0.000077～0.000096)									855-12
855-13	Tridecachloroterphenyls		2002	0/30	0/10	—	(0.00042)	0/30	0/10	—	(0.000039～0.00019)	Fish 0/6	Fish 0/2	Fish —	(Fish 0.000077～0.000096)									855-13
855-14	Tetradecachloroterphenyls		2002	0/30	0/10	—	(0.00033)	0/30	0/10	—	(0.000031～0.00019)	Fish 0/6	Fish 0/2	Fish —	(Fish 0.000061～0.000076)									855-14
856	Polycyclic aromatic hydrocarbons																							856
856-1	Naphthalene	91-20-3	1976	0/20	0/5	—	(0.1)	0/20	0/5	—	(0.01)													856-1
			2007													21/24	7/8	50～530	(0.21)					
			2017	8/26	8/26	0.00019～0.0095	(0.00011)	68/68	23/23	0.00058～2.4	(0.00034)													
856-2	Acenaphthene	83-32-9	1983	0/33		—	(0.09～0.4)	13/33		0.008～0.13	(0.008～0.041)													856-2
			1984	3/138	1/46	0.05～0.1	(0.001～1)	58/138	24/46	0.00004～0.088	(0.00004～0.088)	Fish 15/138	Fish 7/42	Fish 0.001～0.50	(Fish 0.0001～0.05)									
			1999	1/39	1/13	0.012	(0.011)	35/39	12/13	0.00062～0.24	(0.00045)	Fish 11/39	Fish 6/13	Fish 0.00081～0.0047	(Fish 0.00077)									
856-3	Acenaphthylene	208-96-8	1983	0/33	0/11	—	(0.06～0.4)	13/33	6/11	0.008～0.053	(0.008～0.041)													856-3
			1984	4/138	2/46	0.08～1.3	(0.002～1)	63/138	25/46	0.0007～0.671	(0.00006～0.088)	Fish 14/138	Fish 6/42	Fish 0.0008～0.024	(Fish 0.0002～0.05)									
856-4	Anthracene (total with Phenanthrene)	120-12-7 etc.	1976	0/20	0/5	—	(0.1)	4/20	1/5	0.01～0.23	(0.01)													856-4
	Anthracene	120-12-7	1977	0/9	0/5	—	(0.02～3)	6/9	4/5	0.015～1.2	(0.004)													
			1999	0/36	0/12	—	(0.013)	39/39	13/13	0.0017～0.13	(0.0011)	Fish 2/36	Fish 1/12	Fish 0.00061～0.00075	(Fish 0.00054)									
856-5	Phenanthrene	85-01-8	1977	0/9	0/3	—	(0.02～5)	9/9	3/3	0.009～2.8														856-5
			1999	0/36	0/12	—	(0.012)	38/39	13/13	0.0058～0.26	(0.0056)	Fish 25/39	Fish 10/13	Fish 0.00072～0.0037	(Fish 0.00069)	39/39	13/13	1.6～29	(0.019)					
			2006									Fish 9/9	Fish 3/3	Fish 0.0012～0.0030	(Fish 0.0002)	15/15	5/5	3.7～26	(1.6)					
			2007	13/22	6/9	0.0015～0.055	(0.0014)	30/30	10/10	0.0039～0.69	(0.000023)													
856-6	Fluoranthene	206-44-0	1999													39/39	13/13	0.58～10	(0.050)					856-6
			2011	28/28	28/28	0.00017～0.0032	(0.00015)																	
			2017					62/62	21/21	0.0022～2.3	(0.00086)													
856-7	Pyrene*********	129-00-0	1989	8/69	3/23	0.01～0.065	(0.009)	68/71	23/24	0.02～3.9	(0.006)	Fish 10/63	Fish 6/21	Fish 0.0013～0.0096	(Fish 0.001)	39/39	13/13	0.26～9.07	(0.2)					856-7
			1999	4/36	2/12	0.006～0.012	(0.006)	39/39	13/13	0.0066～0.54	(0.0062)	Fish 8/37	Fish 4/13	Fish 0.00037～0.0016	(Fish 0.00034)	39/39	13/13	0.39～8.1	(0.050)					
			2023	26/37	26/37	0.00054～0.020	(0.00049)	96/96	32/32	0.00048～4.5	(0.00040)					52/52	19/19	0.17～4.0	(0.0024)					
856-8	Chrysene	218-01-9	1999													37/37	13/13	0.26～3.9	(0.12)					856-8
			2023	12/37	12/37	0.00035～0.0039	(0.00032)	96/96	32/32	0.00046～2.3	(0.00030)					49/52	18/19	0.026～1.4	(0.025)					
856-9	Benzo[*a*]anthracene	56-55-3	1989	0/159	0/53	—	(0.1)	115/148	41/51	0.0032～2.1	(0.003)	Fish 1/111	Fish 1/37	Fish 0.0012	(Fish 0.001)	39/39	13/13	0.16～11.0	(0.1)					856-9
			1999	0/39	0/13	—	(0.023)	38/39	13/13	0.0083～0.55	(0.0051)	Fish 0/39	Fish 0/13	Fish —	(Fish 0.00069)									
			2023													48/52	18/19	0.025～1.2	(0.024)					
856-10	Benzofluoranthenes (Total of Benzo[*b*]fluoranthene Benzo[*j*]fluoranthene and Benzo(*k*)fluoranthene)	205-99-2 205-82-3 207-08-9	1989	0/159	0/53	—	(0.1)	118/159	42/53	0.010～5.5	(0.01)	Fish 1/120	Fish 1/40	Fish 0.004	(Fish 0.003)	36/39	13/13	0.24～16.83	(0.2)					856-10
			1999	0/39	0/13	—	(0.018)	38/39	13/13	0.0048～1.1	(0.0048)	Fish 4/39	Fish 2/13	Fish 0.00024～0.00040	(Fish 0.00022)	36/36	12/12	0.36～7.8	(0.060)					
			(2023)													48/52	18/19	0.025～1.2	(0.024)					
856-10-1	Benzo[*b*]fluoranthene	205-99-2	2023													49/52	18/19	0.023～1.1	(0.022)					856-10-1
856-10-2	Benzo[*j*]fluoranthene	205-82-3	2023													49/52	18/19	0.016～0.66	(0.0049)					856-10-2
856-10-3	Benzo[*k*]fluoranthene	207-08-9	2023													49/52	18/19	0.011～0.53	(0.0076)					856-10-3
856-11	Benzo[*a*]pyrene	50-32-8	1989	0/138	0/46	—	(0.1)	122/134	41/45	0.005～3.7	(0.005)	Fish 1/123	Fish 1/41	Fish 0.008	(Fish 0.003)	31/39	12/13	0.31～6.37	(0.3)					856-11
			1991		0/18	—			16/18	0.0015～1.5														
			1992		0/18	—			17/18	0.0030～2.2														
			1993		1/19	0.017			17/19	0.0033～1.6														
			1994		0/17	—			15/17	0.0073～1.6														
			1995		0/18	—			15/18	0.0088～1.7														
			1996		0/18	—			16/18	0.00616～1.4														
			1997		0/18	—			15/18	0.00267～1.5														
			1998		0/18	—			15/18	0.0046～2.1														
			1999						14/18	0.0031～1.7														
			2000						12/17	0.0024～2.3														
			2001						16/20	0.0024～1.7														
			2002	12/114	7/38	0.00063～0.0021	(0.00029)	167/186	57/62	0.00034～1.2	(0.00030)	Fish 0/30	Fish 0/10	Fish —	(Fish 0.0002)									
			2018	9/23	9/23	0.00013～0.0045	(0.000086)	59/59	20/20	0.0027～5.1	(0.00019)													
			2023													48/52	18/19	0.033～0.98	(0.025)					
856-12	Benzo[*e*]pyrene	192-97-2	1989	0/75	0/25	—	(0.1)	72/74	25/25	0.0009～1.8	(0.0008)	Fish 0/66	Fish 0/22	Fish —	(Fish 0.003)	29/39	12/13	0.30～5.43	(0.3)					856-12
			1999	0/39	0/13	—	(0.015)	38/39	13/13	0.0041～0.35	(0.0041)	Fish 0/39	Fish 0/13	Fish —	(Fish 0.00041)	30/32	11/11	0.074～3.7	(0.054)					
			2023													49/52	18/19	0.016～0.80	(0.013)					
856-13	Dibenzo[*a*,*h*]anthracene	53-70-3	1989	1/75	1/25	0.10	(0.1)	55/60	19/20	0.0081～0.34	(0.006)	Fish 1/63	Fish 1/21	Fish 0.003	(Fish 0.003)	7/39	3/13	0.89～4.6	(0.6)					856-13
			1999	0/39	0/13	—	(0.023)	30/33	10/11	0.0011～0.088	(0.0010)	Fish 0/39	Fish 0/13	Fish —	(Fish 0.00078)	12/31	7/11	0.24～1.4	(0.23)					
			2023													40/52	16/19	0.0077～0.099	(0.0073)					
856-14	Indeno[1,2,3-*c*,*d*]pyrene	193-39-5	2023													49/52	18/19	0.021～0.93	(0.0086)					856-14
856-15	Benzo[*g*,*h*,*i*]perylene	191-24-2	1989	1/72	1/24	0.05	(0.05)	72/72	25/25	0.003 ～1.31	(0.003)	Fish 1/66	Fish 1/22	Fish 0.016	(Fish 0.005)	32/39	12/13	0.41～7.0	(0.4)					856-15
			1999	0/39	0/13	—	(0.027)	33/39	12/13	0.0091～0.42	(0.009)	Fish 0/33	Fish 0/11	Fish —	(Fish 0.00020)	32/33	11/11	0.10～4.1	(0.086)					
			2023	8/37	8/37	0.00038～0.0052	(0.00035)	96/96	32/32	0.00055～3.4	(0.00021)					49/52	18/19	0.025～1.1	(0.016)					
856-16	Dibenzo[*a*,*e*]pyrene*********	192-65-4	2023													36/52	16/19	0.011～0.21	(0.011)					856-16
856-17	Dibenzo[*a*,*h*]pyrene*********	189-64-0	2023													13/13	6/6	0.0031～0.017	(0.0019)					856-17
856-18	Dibenzo[*a*,*i*]pyrene	189-55-9	2023													13/13	6/6	0.0031～0.025	(0.0028)					856-18
856-19	Dibenzo[*a*,*l*]pyrene*********	191-30-0	2023													13/13	6/6	0.012～0.080	(0.0081)					856-19

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
857	Polyethylene glycol fatty acid ester	25322-68-3	1982	0/30	0/10	—	(10)																	857
858	Polyfluoroacetic acids																							858
858-1	Monofluoroacetic acid	144-49-0	2019	0/28	0/28	—	(0.00076)																	858-1
858-2	Difluoroacetic acid	381-73-7	2019	0/28	0/28	—	(0.00032)																	858-2
858-3	Trifluoroacetic acid	76-05-1	2018													17/39	8/13	27～120	(24)					858-3
			2019	28/28	28/28	0.047～0.42	(0.0082)																	
859	Polyoxyethylenealkylamides	Unknown	1983	0/27	0/9	—	(4)	0/27	0/9	—	(0.7)													859
860	Polyoxyethyleneallkylamines	Unknown	1983	0/27	0/9	—	(5)	0/27	0/9	—	(0.5)													860
861	Poly(oxyethylene) dodecyl ether sulfonate and its salts	9004-82-4																						861
861-1	Di(oxyethylene)dodecyl ether sulfonate and its salts	7577-59-5	2022	25/25	25/25	0.0017～0.024	(0.00056)																	861-1
862	Polyoxyethylene-type nonionic surfactants	Unknown	1982	17/72	8/24	5～50	(3.0～10)	64/72	22/24	0.16～12.4	(0.10～0.2)													862
			1998	7/45	3/15	3.5～22	(3)	29/42	10/14	0.086～12	(0.082)													
862-1	Poly(oxyethylene) alkyl ethers	Unknown	1982	0/30	0/10	—	(5)	19/30	9/10	0.22～1.0	(0.2)													862-1
862-1-1	Poly(oxyethylene) nonyl ethers	39587-22-9																						862-1-1
	(polymerisation degree 1-15)*******		(2017)	1/25	1/25	0.058	(0.023*)																	
862-1-1-1	Mono(oxyethylene) nonyl ether*******		2017	0/25	0/25	—	(0.0052)																	862-1-1-1
862-1-1-2	Di(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0044	(0.0022)																	862-1-1-2
862-1-1-3	Tri(oxyethylene) nonyl ether*******		2017	0/25	0/25	—	(0.00084)																	862-1-1-3
862-1-1-4	Tetra(oxyethylene) nonyl ether*******		2017	0/25	0/25	—	(0.0013)																	862-1-1-4
862-1-1-5	Pemta(oxyethylene) nonyl ether*******		2017	0/25	0/25	—	(0.0017)																	862-1-1-5
862-1-1-6	Hexa(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0023	(0.0014)																	862-1-1-6
862-1-1-7	Hepta(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0038	(0.0016)																	862-1-1-7
862-1-1-8	Octa(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0059	(0.0016)																	862-1-1-8
862-1-1-9	Nona(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0057	(0.00095)																	862-1-1-9
862-1-1-10	Deca(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0067	(0.0011)																	862-1-1-10
862-1-1-11	Undeca(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0046	(0.0013)																	862-1-1-11
862-1-1-12	Dodeca(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.005	(0.0012)																	862-1-1-12
862-1-1-13	Trideca(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0038	(0.00081)																	862-1-1-13
862-1-1-14	Tetradeca(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0041	(0.0011)																	862-1-1-14
862-1-1-15	Pemtadeca(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.01	(0.0012)																	862-1-1-15
862-1-2	Poly(oxyethylene) decyl ethers	26183-52-8																						862-1-2
	(polymerisation degree 1-15)*******		(2017)	2/25	2/25	0.059～0.098	(0.023*)																	
862-1-2-1	Mono(oxyethylene) decyl ether*******		2017	0/25	0/25	—	(0.0052)																	862-1-2-1
862-1-2-2	Di(oxyethylene) decyl ether*******		2017	1/25	1/25	0.0081	(0.0012)																	862-1-2-2
862-1-2-3	Tri(oxyethylene) decyl ether*******		2017	3/25	3/25	0.00099～0.0013	(0.00084)																	862-1-2-3
862-1-2-4	Tetra(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0017～0.003	(0.0013)																	862-1-2-4
862-1-2-5	Pemta(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0027～0.0046	(0.0017)																	862-1-2-5
862-1-2-6	Hexa(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0035～0.0037	(0.0014)																	862-1-2-6
862-1-2-7	Hepta(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0053～0.0062	(0.0016)																	862-1-2-7
862-1-2-8	Octa(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0078～0.01	(0.0016)																	862-1-2-8
862-1-2-9	Nona(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0056～0.0082	(0.00095)																	862-1-2-9
862-1-2-10	deca(oxyethylene) decyl ether*******		2017	2/25	2/25	0.005～0.0087	(0.0011)																	862-1-2-10
862-1-2-11	undeca(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0047～0.0076	(0.0013)																	862-1-2-11
862-1-2-12	ｳdeca(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0051～0.0082	(0.0012)																	862-1-2-12
862-1-2-13	Trideca(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0038～0.0075	(0.00081)																	862-1-2-13
862-1-2-14	Tetradeca(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0028～0.0077	(0.0011)																	862-1-2-14
862-1-2-15	Pemtadeca(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0069～0.024	(0.0012)																	862-1-2-15
862-1-3	Poly(oxyethylene) undecyl ethers	34398-01-1																						862-1-3
	(polymerisation degree 1-15)*******		(2017)	1/25	1/25	0.025	(0.023*)																	
862-1-3-1	Mono(oxyethylene) undecyl ether*******		2017	0/25	0/25	—	(0.0052)																	862-1-3-1
862-1-3-2	Di(oxyethylene) undecyl ether*******		2017	0/25	0/25	—	(0.0022)																	862-1-3-2
862-1-3-3	Tri(oxyethylene) undecyl ether*******		2017	0/25	0/25	—	(0.00084)																	862-1-3-3
862-1-3-4	Tetra(oxyethylene) undecyl ether*******		2017	0/25	0/25	—	(0.0013)																	862-1-3-4
862-1-3-5	Pemta(oxyethylene) undecyl ether*******		2017	0/25	0/25	—	(0.0017)																	862-1-3-5

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
862-1-3-6	Hexa(oxyethylene) undecyl ether*******		2017	0/25	0/25	—	(0.0014)																	862-1-3-6
862-1-3-7	Hepta(oxyethylene) undecyl ether*******		2017	0/25	0/25	—	(0.0016)																	862-1-3-7
862-1-3-8	Octa(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0018	(0.0016)																	862-1-3-8
862-1-3-9	Nona(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0017	(0.00095)																	862-1-3-9
862-1-3-10	deca(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0017	(0.0011)																	862-1-3-10
862-1-3-11	undeca(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0023	(0.0013)																	862-1-3-11
862-1-3-12	ｳdeca(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0029	(0.0012)																	862-1-3-12
862-1-3-13	Trideca(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0034	(0.00081)																	862-1-3-13
862-1-3-14	Tetradeca(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0024	(0.0011)																	862-1-3-14
862-1-3-15	Pemtadeca(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0067	(0.0012)																	862-1-3-15
862-1-1	Poly(oxyethylene) dodecyl ethers	9002-92-0																						862-1-1
	(polymerisation degree 1-15)		(2017)	21/25	21/25	0.02～5.3	(0.014*)																	
	(polymerisation degree 2-15)		(2005)	9/15	3/5	0.14～1.0	(0.264*)																	
	(polymerisation degree 2-19)		(2006)					15/15	5/5	0.0080～1.5	(0.15*)													
862-1-4-1	Mono(oxyethylene) dodecyl ether		2017	24/25	24/25	0.0014～0.045	(0.00094)																	862-1-4-1
862-1-4-2	Di(oxyethylene) dodecyl ether		2005	0/15	0/5	—	(0.029)																	862-1-4-2
			2006					0/15	0/5	—	(0.012)													
			2017	24/25	24/25	0.0012～0.034	(0.0012)																	
862-1-4-3	Tri(oxyethylene) dodecyl ether		2005	0/15	0/5	—	(0.017)																	862-1-4-3
			2006					0/15	0/5	—	(0.017)													
			2017	24/25	24/25	0.00085～0.038	(0.00084)																	
862-1-4-4	Tetra(oxyethylene) dodecyl ether		2005	1/16	1/6	0.050	(0.021)																	862-1-4-4
			2006					0/15	0/5	—	(0.018)													
			2017	22/25	22/25	0.00087～0.038	(0.00073)																	
862-1-4-5	Penta(oxyethylene) dodecyl ether		2005	4/18	2/6	0.028～0.10	(0.019)																	862-1-4-5
			2006					0/15	0/5	—	(0.016)													
			2017	15/20	15/20	0.003～0.055	(0.0017)																	
862-1-4-6	Hexa(oxyethylene) dodecyl ether		2005	3/13	2/5	0.018～0.055	(0.018)																	862-1-4-6
			2006					4/15	2/5	0.013～0.017	(0.012)													
			2017	17/25	17/25	0.0018～0.076	(0.0016)																	
862-1-4-7	Hepta(oxyethylene) dodecyl ether		2005	6/24	2/8	0.021～0.45	(0.018)																	862-1-4-7
			2006					7/15	4/5	0.012～0.020	(0.011)													
			2017	16/22	16/22	0.0022～0.12	(0.0016)																	
862-1-4-8	Octa(oxyethylene) dodecyl ether		2005	6/15	3/5	0.016～0.088	(0.016)																	862-1-4-8
			2006					8/15	4/5	0.010～0.031	(0.0096)													
			2017	19/25	19/25	0.0023～0.18	(0.0016)																	
862-1-4-9	Nona(oxyethylene) dodecyl ether		2005	6/15	2/5	0.029～0.13	(0.023)																	862-1-4-9
			2006					10/15	4/5	0.0097～0.064	(0.0087)													
			2017	19/25	19/25	0.0011～0.2	(0.00095)																	
862-1-4-10	Deca(oxyethylene) dodecyl ether		2005	8/15	3/5	0.022～0.13	(0.019)																	862-1-4-10
			2006					11/15	4/5	0.011～0.11	(0.0087)													
			2017	18/25	18/25	0.0015～0.3	(0.0011)																	
862-1-4-11	Undeca(oxyethylene) dodecyl ether		2005	8/15	3/5	0.023～0.13	(0.020)																	862-1-4-11
			2006					11/15	4/5	0.011～0.16	(0.0073)													
			2017	18/25	18/25	0.0021～0.33	(0.0013)																	
862-1-4-12	Dodeca(oxyethylene) dodecyl ether		2005	9/15	3/5	0.021～0.14	(0.020)																	862-1-4-12
			2006					11/15	4/5	0.012～0.21	(0.0062)													
			2017	18/25	18/25	0.0016～0.47	(0.0012)																	
862-1-4-13	Trideca(oxyethylene) dodecyl ether		2005	9/15	3/5	0.022～0.12	(0.020)																	862-1-4-13
			2006					11/15	4/5	0.012～0.19	(0.0080)													
			2017	16/24	16/24	0.0014～0.57	(0.00081)																	
862-1-4-14	Tetradeca(oxyethylene) dodecyl ether		2005	8/15	3/5	0.029～0.12	(0.024)																	862-1-4-14
			2006					11/15	4/5	0.013～0.17	(0.0064)													
			2017	16/24	16/24	0.0015～0.76	(0.0011)																	
862-1-4-15	Pentadeca(oxyethylene) dodecyl ether		2006					12/15	5/5	0.0049～0.17	(0.0043)													862-1-4-15
			2017	14/24	14/24	0.0083～2.1	(0.0012)																	
862-1-4-16	Hexadeca(oxyethylene) dodecyl ether		2006					14/15	5/5	0.0033～0.15	(0.0030)													862-1-4-16
862-1-4-17	Heptadeca(oxyethylene) dodecyl ether		2006					12/15	5/5	0.0049～0.081	(0.0036)													862-1-4-17
862-1-4-18	Octadeca(oxyethylene) dodecyl ether		2006					12/15	5/5	0.0036～0.043	(0.0025)													862-1-4-18
862-1-4-19	Nonadeca(oxyethylene) dodecyl ether		2006					12/15	5/5	0.0015～0.031	(0.0010)													862-1-4-19
862-1-5	Poly(oxyethylene) tridecyl ethers	24938-91-8																						862-1-5
	(polymerisation degree 1-15)*******		(2017)	1/25	1/25	0.03	(0.023*)																	
	(polymerisation degree 2-19)		(2006)					9/15	5/5	0.0046～0.068	(0.25*)													
862-1-5-1	Mono(oxyethylene) tridecyl ether*******		2017	2/25	2/25	0.0018～0.0056	(0.00094)																	862-1-5-1
862-1-5-2	Di(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.017)													862-1-5-2
			2017	1/25	1/25	0.0041	(0.0022)																	
862-1-5-3	Tri(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.022)													862-1-5-3
			2017	3/25	3/25	0.00085～0.0032	(0.00084)																	
862-1-5-4	Tetra(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.022)													862-1-5-4
			2017	1/25	1/25	0.0033	(0.0013)																	
862-1-5-5	Penta(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.022)													862-1-5-5
			2017	1/25	1/25	0.0025	(0.0017)																	
862-1-5-6	Hexa(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.021)													862-1-5-6
			2017	1/25	1/25	0.0019	(0.0014)																	
862-1-5-7	Hepta(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.020)													862-1-5-7
			2017	1/25	1/25	0.0018	(0.0016)																	

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
862-1-5-8	Octa(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.019)													862-1-5-8
			2017	0/25	0/25	—	(0.0016)																	
862-1-5-9	Nona(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.021)													862-1-5-9
			2017	1/25	1/25	0.0013	(0.00095)																	
862-1-5-10	Deca(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.019)													862-1-5-10
			2017	1/25	1/25	0.0017	(0.0011)																	
862-1-5-11	Undeca(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.015)													862-1-5-11
			2017	1/25	1/25	0.0013	(0.0013)																	
862-1-5-12	Dodeca(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.013)													862-1-5-12
			2017	0/25	0/25	—	(0.0012)																	
862-1-5-13	Trideca(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.015)													862-1-5-13
			2017	2/25	2/25	0.0011～0.0016	(0.00081)																	
862-1-5-14	Tetradeca(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.0096)													862-1-5-14
			2017	0/25	0/25	—	(0.0011)																	
862-1-5-15	Pentadeca(oxyethylene) tridecyl ether*******		2006					5/15	4/5	0.0075～0.0087	(0.0069)													862-1-5-15
			2017	1/25	1/25	0.0028	(0.0012)																	
862-1-5-16	Hexadeca(oxyethylene) tridecyl ether		2006					8/15	4/5	0.0053～0.011	(0.0053)													862-1-5-16
862-1-5-17	Heptadeca(oxyethylene) tridecyl ether		2006					7/15	3/5	0.0050～0.010	(0.0043)													862-1-5-17
862-1-5-18	Octadeca(oxyethylene) tridecyl ether		2006					7/15	3/5	0.0039～0.0081	(0.0030)													862-1-5-18
862-1-5-19	Nonadeca(oxyethylene) tridecyl ether		2006					8/15	4/5	0.0018～0.0058	(0.0017)													862-1-5-19
862-1-6	Poly(oxyethylene) tetradecyl ethers	27306-79-2																						862-1-6
	(polymerisation degree 1-15)*******		(2017)	3/25	3/25	0.034～0.137	(0.023*)																	
	(polymerization degree 2-19)		(2006)					14/15	5/5	0.0010～0.45	(0.23*)													
862-1-6-1	Mono(oxyethylene) tetradecyl ether*******		2017	1/25	1/25	0.0057	(0.0052)																	862-1-6-1
862-1-6-2	Di(oxyethylene) tetradecyl ether*******		2006					0/15	0/5	—	(0.018)													862-1-6-2
			2017	2/25	2/25	0.0047～0.0076	(0.0022)																	
862-1-6-3	Tri(oxyethylene) tetradecyl ether*******		2006					0/15	0/5	—	(0.019)													862-1-6-3
			2017	5/25	5/25	0.00091～0.0069	(0.00084)																	
862-1-6-4	Tetra(oxyethylene) tetradecyl ether*******		2006					0/15	0/5	—	(0.018)													862-1-6-4
			2017	2/25	2/25	0.0027～0.006	(0.0013)																	
862-1-6-5	Penta(oxyethylene) tetradecyl ether*******		2006					0/15	0/5	—	(0.023)													862-1-6-5
			2017	2/25	2/25	0.0028～0.0045	(0.0017)																	
862-1-6-6	Hexa(oxyethylene) tetradecyl ether*******		2006					0/15	0/5	—	(0.021)													862-1-6-6
			2017	3/25	3/25	0.0015～0.0035	(0.0014)																	
862-1-6-7	Hepta(oxyethylene) tetradecyl ether*******		2006					0/15	0/5	—	(0.020)													862-1-6-7
			2017	4/25	4/25	0.0017～0.0035	(0.0016)																	
862-1-6-8	Octa(oxyethylene) tetradecyl ether*******		2006					1/15	1/5	0.018	(0.017)													862-1-6-8
			2017	4/25	4/25	0.0018～0.0048	(0.0016)																	
862-1-6-9	Nona(oxyethylene) tetradecyl ether*******		2006					1/15	1/5	0.039	(0.017)													862-1-6-9
			2017	7/25	7/25	0.00098～0.0042	(0.00095)																	
862-1-6-10	Deca(oxyethylene) tetradecyl ether*******		2006					1/15	1/5	0.054	(0.016)													862-1-6-10
			2017	5/25	5/25	0.0012～0.0051	(0.0011)																	
862-1-6-11	Undeca(oxyethylene) tetradecyl ether*******		2006					1/15	1/5	0.066	(0.012)													862-1-6-11
			2017	6/25	6/25	0.0013～0.0049	(0.0013)																	
862-1-6-12	Dodeca(oxyethylene) tetradecyl ether*******		2006					3/15	3/5	0.011～0.073	(0.011)													862-1-6-12
			2017	7/25	7/25	0.0012～0.0084	(0.0012)																	
862-1-6-13	Trideca(oxyethylene) tetradecyl ether*******		2006					2/15	2/5	0.016～0.054	(0.014)													862-1-6-13
			2017	5/25	5/25	0.001～0.009	(0.00081)																	
862-1-6-14	Tetradeca(oxyethylene) tetradecyl ether*******		2006					2/15	2/5	0.016～0.041	(0.0087)													862-1-6-14
			2017	8/25	8/25	0.0013～0.015	(0.0011)																	
862-1-6-15	Pentadeca(oxyethylene) tetradecyl ether*******		2006					7/15	4/5	0.0059～0.034	(0.0053)													862-1-6-15
			2017	7/25	7/25	0.0023～0.048	(0.0012)																	
862-1-6-16	Hexadeca(oxyethylene) tetradecyl ether		2006					9/15	4/5	0.0046～0.026	(0.0039)													862-1-6-16
862-1-6-17	Heptadeca(oxyethylene) tetradecyl ether		2006					8/15	4/5	0.0043～0.015	(0.0042)													862-1-6-17
862-1-6-18	Octadeca(oxyethylene) tetradecyl ether		2006					8/15	4/5	0.0033～0.0067	(0.0027)													862-1-6-18
862-1-6-19	Nonadeca(oxyethylene) tetradecyl ether		2006					7/15	3/5	0.0029～0.030	(0.0027)													862-1-6-19
862-1-7	Polyoxyethylene pentadecyl ethers	34398-05-5																						862-1-7
	(polymerisation degree 1-15)*******		(2017)	0/25	0/25	—	(0.023*)																	
	(polymerization degree 2-19)		(2006)					0/15	0/5	—	(0.15*)													
862-1-7-1	Mono(oxyethylene) pentadecyl ether*******		2017	1/25	1/25	0.0061	(0.00094)																	862-1-7-1
862-1-7-2	Di(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	—	(0.0080)													862-1-7-2
			2017	0/25	0/25	—	(0.0022)																	
862-1-7-3	Tri(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	—	(0.010)													862-1-7-3
			2017	1/25	1/25	0.00084	(0.00084)																	
862-1-7-4	Tetra(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	—	(0.011)													862-1-7-4
			2017	0/25	0/25	—	(0.0013)																	
862-1-7-5	Penta(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	—	(0.014)													862-1-7-5
			2017	0/25	0/25	—	(0.0017)																	
862-1-7-6	Hexa(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	—	(0.013)													862-1-7-6
			2017	0/25	0/25	—	(0.0014)																	
862-1-7-7	Hepta(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	—	(0.012)													862-1-7-7
			2017	0/25	0/25	—	(0.0016)																	
862-1-7-8	Octa(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	—	(0.015)													862-1-7-8
			2017	0/25	0/25	—	(0.0016)																	
862-1-7-9	Nona(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	—	(0.012)													862-1-7-9
			2017	0/25	0/25	—	(0.00095)																	
862-1-7-10	Deca(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	—	(0.012)													862-1-7-10
			2017	0/25	0/25	—	(0.0011)																	
862-1-7-11	Undeca(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	—	(0.0092)													862-1-7-11
			2017	0/25	0/25	—	(0.0013)																	
862-1-7-12	Dodeca(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	—	(0.0078)													862-1-7-12
			2017	0/25	0/25	—	(0.0012)																	

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
862-1-7-13	Trideca(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	—	(0.0078)													862-1-7-13
			2017	0/25	0/25	—	(0.00081)																	
862-1-7-14	Tetradeca(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	—	(0.0055)													862-1-7-14
			2017	0/25	0/25	—	(0.0011)																	
862-1-7-15	Pentadeca(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	—	(0.0039)													862-1-7-15
			2017	0/25	0/25	—	(0.0012)																	
862-1-7-16	Hexadeca(oxyethylene) pentadecyl ether		2006					0/15	0/5	—	(0.0034)													862-1-7-16
862-1-7-17	Heptadeca(oxyethylene) pentadecyl ether		2006					0/15	0/5	—	(0.0031)													862-1-7-17
862-1-7-18	Octadeca(oxyethylene) pentadecyl ether		2006					0/15	0/5	—	(0.0031)													862-1-7-18
862-1-7-18	Nonadeca(oxyethylene) pentadecyl ether		2006					0/3	0/1	—	(0.0018)													862-1-7-18
862-2	Poly(oxyethylene) alkylphenyl ethers	Unknown	1977	3/15	1/5	190～230	(100)	6/15	2/5	7.2～29.6	(4.0)													862-2
			1978	23/90	6/15	130～500	(100)	69/88	15/15	2.1～49.5	(2)													
			1982	1/30	1/10	90	(15)	8/30	4/10	2.6～4.9	(2.0)													
862-2-1	Poly(oxyethylene) octylphenyl ethers (polymerisation degree = 1-10)	9036-19-5	(2014)	17/20	17/20	0.0022～0.11	(0.0017*)																	862-2-1
862-2-1-1	Mono(oxyethylene) octylphenyl ethers		2014	16/20	16/20	0.00061～0.02	(0.00053)																	862-2-1-1
862-2-1-2	Di(oxyethylene) octylphenyl ethers		2014	18/20	18/20	0.00021～0.043	(0.00014)																	862-2-1-2
862-2-1-3	Tri(oxyethylene) octylphenyl ethers		2014	15/20	15/20	0.00015～0.01	(0.00011)																	862-2-1-3
862-2-1-4	Tetra(oxyethylene) octylphenylethers		2014	13/20	13/20	0.00020～0.011	(0.00016)																	862-2-1-4
862-2-1-5	Penta(oxyethylene) octylphenyl ethers		2014	12/20	12/20	0.00021～0.014	(0.00017)																	862-2-1-5
862-2-1-6	Hexa(oxyethylene) octylphenyl ethers		2014	14/20	14/20	0.00019～0.016	(0.00015)																	862-2-1-6
862-2-1-7	Hepta(oxyethylene) octylphenyl ethers		2014	10/20	10/20	0.00017～0.015	(0.00010)																	862-2-1-7
862-2-1-8	Octa(oxyethylene) octylphenyl ethers		2014	11/20	11/20	0.00001～0.014	(0.00009)																	862-2-1-8
862-2-1-9	Nona(oxyethylene) octylphenyl ethers		2014	10/20	10/20	0.00023～0.011	(0.00012)																	862-2-1-9
862-2-1-10	Deca(oxyethylene) octylphenyl ethers		2014	9/20	9/20	0.00013～0.0082	(0.00008)																	862-2-1-10
862-2-1	Poly(oxyethylene) nonylphenyl ethers	9016-45-9																						862-2-1
	(polymerisation degree = 2-15)		(2005)	9/9	3/3	0.018～0.15	(0.044*)																	
	(polymerisation degree = 1-15)		(2014)	16/27	16/27	0.048～1.3	(0.043*)																	
862-2-1-1	Mono(oxyethylene) nonylphenyl ethers		2014	3/27	3/27	0.035～0.048	(0.034)																	862-2-1-1
862-2-1-2	Di(oxyethylene) nonylphenyl ethers		2005	13/13	5/5	0.0051～0.33	(0.0037)																	862-2-1-2
			2014	25/27	25/27	0.0009～0.22	(0.0004)																	
862-2-1-3	Tri(oxyethylene) nonylphenyl ethers		2005	16/19	6/7	0.0060～0.22	(0.0042)																	862-2-1-3
			2014	13/27	13/27	0.0085～0.21	(0.0081)																	
862-2-1-4	Tetra(oxyethylene) nonylphenyl ethers		2005	14/17	5/6	0.0043～0.13	(0.0018)																	862-2-1-4
			2014	21/27	21/27	0.002～0.22	(0.0019)																	
862-2-1-5	Penta(oxyethylene) nonylphenyl ethers		2005	11/16	5/6	0.0053～0.12	(0.0034)																	862-2-1-5
			2014	23/27	23/27	0.0011～0.16	(0.0006)																	
862-2-1-6	Hexa(oxyethylene) nonylphenyl ethers		2005	9/16	4/6	0.0052～0.090	(0.0037)																	862-2-1-6
			2014	20/27	20/27	0.0019～0.12	(0.0018)																	
862-2-1-7	Hepta(oxyethylene) nonylphenyl ethers		2005	8/16	4/6	0.0039～0.094	(0.0038)																	862-2-1-7
			2014	16/27	16/27	0.0028～0.086	(0.0028)																	
862-2-1-8	Octa(oxyethylene) nonylphenyl ethers		2005	11/17	4/6	0.0031～0.096	(0.0027)																	862-2-1-8
			2014	19/27	19/27	0.0017～0.073	(0.0012)																	
862-2-1-9	Nona(oxyethylene) nonylphenyl ethers		2005	7/16	3/6	0.0034～0.087	(0.0023)																	862-2-1-9
			2014	20/27	20/27	0.0018～0.074	(0.0016)																	
862-2-1-10	Deca(oxyethylene) nonylphenyl ethers		2005	10/16	4/6	0.0026～0.085	(0.0024)																	862-2-1-10
			2014	14/27	14/27	0.0029～0.072	(0.0024)																	
862-2-1-11	Undeca(oxyethylene) nonylphenyl ethers		2005	7/16	4/6	0.0038～0.073	(0.0036)																	862-2-1-11
			2014	24/27	24/27	0.0009～0.069	(0.0009)																	
862-2-1-12	Dodeca(oxyethylene) nonylphenyl ethers		2005	6/16	3/6	0.0028～0.059	(0.0026)																	862-2-1-12
			2014	17/27	17/27	0.002～0.07	(0.0014)																	
862-2-1-13	Trideca(oxyethylene) nonylphenyl ethers		2005	7/16	3/6	0.0028～0.038	(0.0024)																	862-2-1-13
			2014	16/27	16/27	0.0017～0.042	(0.0011)																	
862-2-1-14	Tetradeca(oxyethylene) nonylphenyl ethers		2005	4/16	2/6	0.017～0.028	(0.0043)																	862-2-1-14
			2014	13/27	13/27	0.0017～0.031	(0.0017)																	
862-2-1-15	Pentadeca(oxyethylene) nonylphenyl ethers		2005	1/12	1/4	0.012	(0.0035)																	862-2-1-15
			2014	8/27	8/27	0.0029～0.028	(0.0027)																	
	Pretilachlor	See 2-Chloro-2',6'-diethyl-*N* -(2-propoxyethyl)acetanilide																						
	Probenazole	See 3-Allyloxy-1,2-benzoisothiazole 1,1-dioxide																						
863	Propanal	123-38-6	1987	0/75	0/25	—	(0.5)									23/66	7/12	810～14,000	(800)					863
			2024													36/36	12/12	64～1200	(16)					
864	1-Propanamine	107-10-8	1980	0/27	0/9	—	(0.5～33)	0/27	0/9	—	(0.001～0.18)													864
865	Propane-1,2-diol	57-55-6	1977	0/6	0/2	—	(300～400)	0/6	0/2	—	(2～ 3)													865
			1986	12/24	4/8	0.2～0.8	(0.2)	4/24	3/8	0.020～0.022	(0.02)													
			2016	19/20	19/20	0.053～5.3	(0.033)																	
866	4,4'-Propane-2,2-diyldiphenol (synonym: 4,4'-Isopropylidene diphenol or Bisphenol-A)	80-05-7	1976	0/60	0/12	—	(0.05～0.1)	0/50	0/10	—	(0.0002～0.005)	Fish 0/10	Fish 0/2	Fish —	(Fish 0.005)									866
			1996	41/148	18/50	0.010～0.268	(0.01)	79/163	33/55	0.0054～0.60	(0.005)	Fish 7/159	Fish 3/51	Fish 0.015～0.2873	(Fish 0.013)	0/18	0/6	—	(24)					
			2005	26/30	9/10	0.0027～1.0	(0.0024)																	
			2011													4/33	3/11	1.1～5.6	(0.96)					
			2014	18/20	18/20	0.0024～0.28	(0.0017)	52/69	20/23	0.0026～0.19	(0.0024)	Bivalves & Fish 20/36	Bivalves & Fish 9/12	Bivalves & Fish 0.00024 ～0.0034	(Bivalves & Fish 0.00018)									
			2022	28/32	28/32	0.0039～0.095	(0.0018)																	
867	Propanenitrile	107-12-0	1987	0/75	0/25	—	(0.7)	0/75	0/25	—	(0.006)					0/61	0/10	—	(200)					867
	Propanil	See 3',4'-Dichloropropionanilide																						
868	1-Propanol	71-23-8	1995	0/33	0/11	—	(3)	4/33	2/11	0.11～0.14	(0.09)					1/18	1/6	210	(200)					868
869	2-Propanol (synonym: Isopropyl alcohol)	67-63-0	1995	0/33	0/11	—	(8)	4/33	2/11	0.50～2.64	(0.27)					16/18	6/6	90～10,000	(50)					869
			2008													15/15	5/5	200～4,900	(10)					
	n -Propanolamine	See 3-Aminopropan-1-ol																						
870	1-Propene	115-07-1	1977	2/6	1/2	0.1	(0.05～5)	0/6	0/2	—	(0.0002～0.005)													870

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
	2-Propen-1-ol	See Allyl alcohol																						
871	*N* -2-Propenyl-2-propen-1-amine	124-02-7	1981	0/27	0/9	—	(0.8～2)	0/27	0/9	—	(0.005～0.01)													871
	Propionaldehyde	See Propanal																						
	Propionitrile	See Propanenitrile																						
	Propoxur	See 2-Isopropyloxyphenyl *N* -methylcarbamate																						
872	*n* -Propylacetate	109-60-4	2023	0/28	0/28	—	(0.13)																	872
	n -Propylamine	See 1-Propanamine																						
	Propylene	See 1-Propene																						
873	Propylene diamine	78-90-0	1987	0/87	0/29	—	(0.6)	0/87	0/29	—	(0.100)													873
874	Propylene dinitrate	6423-43-4	2007													2/24	1/8	2.0～3.9	(2.0)					874
	Propylene glycol	See 1,2-Propanediol																						
	Propylene oxide	See 1,2-Epoxypropane																						
875	Propylenimine	75-55-8	1986	0/30	0/10	—	(50)	0/24	0/8	—	(0.05)													875
876	Propyl 4-hydroxybenzoate	94-13-3	2000	0/33	0/11	—	(0.014)	0/33	0/11	—	(2.3)	Fish 0/28	Fish 0/10	Fish —	(Fish 2.3)									876
			2012	1/16	1/16	0.016	(0.014)																	
	n -Propyl *p* -oxybenzoate	See Propylparaben																						
	Propylparaben	See Propyl 4-hydroxybenzoate																						
877	5-(Propylsulfinyl)-1*H* -benzimidazol-2-yl carbamic acid methyl ester	54029-12-8	2018	0/18	0/18	—	(0.0068)																	877
878	5-(Propylsulfonyl)-1*H* -benzimidazol-2-yl amine	80983-34-2	2018	0/18	0/18	—	(0.010)																	878
879	5-(Propylsulfonyl)-1*H* -benzimidazol-2-yl carbamic acid methyl ester	75184-71-3	2018	0/18	0/18	—	(0.011)																	879
880	5-(Propylthio)-1*H* -benzimidazol-2-yl carbamic acid methyl ester	54965-21-8	2018	0/18	0/18	—	(0.0011)																	880
	Propylthiouracil	See 2,3-Dihydro-6-propyl-2-thioxo-4(1*H*)- pyrimidinone																						
881	*N* -Propyl-*N* -[2-(2,4,6,-trichloro phenoxy)ethyl]-imidazole-1-carboxamide (synonym: Prochloraz)	67747-09-5	2006	0/24	0/8	—	(0.0018)									0/15	0/5	—	(0.3)					881
	Pyrene	See Polycyclic aromatic hydrocarbons																						
	Pyridaphenthion	See *O* ,*O* -Diethyl *O* -(6-oxo-1-phenyl-1,6-dihydro-3-pyridazinyl) thiophosphate																						
882	Pyridine	110-86-1	1980	2/9	1/3	0.3～0.4	(0.2～1)	6/9	2/3	0.006～0.031	(0.002～0.01)													882
			1991	6/36	2/12	0.13～0.2	(0.1)	18/39	6/13	0.0068～0.11	(0.005)	Fish 19/39	Fish 7/13	Fish 0.0045～0.075	(Fish 0.003)	22/49	10/18	24～90	(24)					
			1997													43/53	19/20	10～210	(10)					
			1998	6/33	2/11	0.29～0.41	(0.1)	6/33	2/11	0.013～0.019	(0.0092)													
			2017	12/21	12/21	0.029～2.3	(0.019)																	
			2019													56/57	19/19	2.4～54	(2.4)					
883	2-Pyridinecarbonitrile	100-70-9	1984	0/24	0/8	—	(1～4)	0/24	0/8	—	(0.06～0.2)													883
884	4-Pyridinecarbonitrile	100-48-1	1984	0/24	0/8	—	(0.9～4)	0/24	0/8	—	(0.04～0.2)													884
885	Pyridine-triphenylborane(1/1)	971-66-4	2003	0/15	0/5	—	(0.12)																	885
	Pyridostigmine	See 3-[[(Dimethylamino)carbonyl]oxy]-1-methylpyridinium																						
	2-Pyridylamine	See 2-Aminopyridine																						
	3-Pyridylamine	See 3-Aminopyridine																						
	4-Pyridylamine	See 4-Aminopyridine																						
886	Pyrimethamine	58-14-0	2014	0/16	0/16	—	(0.0038)																	886
887	Pyrimethanil	53112-28-0	2019	0/26	0/26	—	(0.0021)																	887
888	Pyrocatechol	120-80-9	2012													9/69	7/23	6.0～25	(5.0)					888
889	Pyrrole	109-97-7	1981	0/24	0/8	—	(2～5)	0/24	0/8	—	(0.03～0.1)													889
890	Pyrrolidine	123-75-1	1986	0/30	0/10	—	(10)	0/24	0/8	—	(0.03)													890
891	Quinoline	91-22-5	1984	2/24	1/8	0.006	(0.005～3.9)	3/24	2/8	0.00005～0.00008	(0.00005～0.17)													891
			1991	0/36	0/12	—	(0.1)	2/39	1/13	0.006	(0.0051)	Fish 0/39	Fish 0/13	Fish —	(Fish 0.003)									
			2007	12/21	4/7	0.0030～0.013	(0.0011)																	
			2008													27/41	11/15	0.32～12	(0.32)					
			2010					25/41	10/14	0.00013～0.0020	(0.00010)													
	Quintozene	See Pentachloronitrobenzene																						
	R-22	See Chlorodifluoromethane																						
892	Roxithromycin	80214-83-1	2014	6/17	6/17	0.0073～0.047	(0.0065)																	892
893	Salicylaldehyde	90-02-8	2007	0/15	0/5	—	(0.013)																	893
894	Salicylic acid and its salts (as Sodium salicylate)	54-21-7	2018	14/20	14/20	0.062～1.4	(0.050)																	894
	Salithion	See 2-Methoxy-4*H* -1,3,2-benzodioxaphosphorin-2-sulfide																						
895	Selenium and its compounds (as Selenium)	7782-49-2 etc.	1974	12/60	4/12	0.06～0.17	(0.1～40)	36/60	8/12	0.02～0.190	(1.3)	Bivalves 20/20 Fish 20/20	Bivalves 4/4 Fish 4/4	Bivalves 0.04～0.30 Fish 0.14～0.87										895
			1978									Bivalves 10/10 Fish 30/30 Birds 6/6	Bivalves 2/2 Fish 6/6 Birds 1/1	Bivalves 0.31～0.50 Fish 0.22～0.89 Birds 0.30～0.49										
			1979									Bivalves 15/15 Fish 40/40 Birds 6/6	Bivalves 3/3 Fish 8/8 Birds 1/1	Bivalves 0.23～0.56 Fish 0.19～1.58 Birds 0.44～0.52	(Bivalves 0.01) (Fish 0.01) (Birds 0.05)									
			1980									Birds 8/8	Birds 1/1	Birds 0.49～0.69	(Birds 0.05)									
896	Silver and its compounds (as Silver)	7440-22-4 etc.	2015	19/21	19/21	0.0006～0.12	(0.0006)																	896
	Simazine	See 2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine																						
	Simetryn	See 2,4-Bis(ethylamino)-6-methylthio-1,3,5-triazine																						
897	Sodium (1,1'-biphenyl)-2-olate	132-27-4	2013	3/11	3/11	0.0047～0.0103	(0.0024)																	897
898	Sodium *m* -nitrobenzenesulfonate	127-68-4	1977	0/6	0/2	—	(6.6～10)	0/6	0/2	—	(0.5～0.78)													898
	Solvent yellow 14	See 1-Phenylazo-2-naphthol																						
	Solvent yellow 2	See 4-Dimethylaminoazobenzene																						
899	Streptomycin	57-92-1	2021	7/35	7/35	0.0011～0.0023	(0.0011)																	899
900	Styrene	100-42-5	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.006)													900
			1985	0/27	0/9	—	(0.1)	1/21	1/7	0.001	(0.001)													
			1986	7/121	5/41	0.03～0.5	(0.03)	13/125	8/42	0.0005～0.0075	(0.0005)	Fish 28/131	Fish 13/41	Fish 0.0005～0.0023	(Fish 0.0005)									
			1997	0/36	0/12	—	(0.2)	0/33	0/11	—	(0.0078)													
			1998													42/42	14/14	39～2,700	(33)					
			2012	0/25	0/25	—	(0.04)									59/63	21/21	11～4,500	(11)					
	Styrene oxide	See Phenyl oxirane																						
901	Sulfabenzamide	127-71-9	2014	0/16	0/16	—	(0.005)																	901
902	Sulfabromomethazine	116-45-0	2014	0/16	0/16	—	(0.005)																	902

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
903	Sulfachlorpyridazine	80-32-0	2014	0/16	0/16	—	(0.005)																	903
904	Sulfadiazine	68-35-9	2014	1/16	1/16	0.029	(0.005)																	904
905	Sulfadimethoxine	122-11-2	2014	0/16	0/16	—	(0.005)																	905
906	Sulfadimidine	57-68-1	2014	0/16	0/16	—	(0.005)																	906
907	Sulfadoxine	2447-57-6	2014	0/16	0/16	—	(0.005)																	907
908	Sulfaethoxypyridazine	963-14-4	2014	0/16	0/16	—	(0.005)																	908
909	Sulfaguanidine	57-67-0	2014	0/16	0/16	—	(0.005)																	909
910	Sulfamerazine	127-79-7	2014	0/16	0/16	—	(0.005)																	910
911	Sulfamethoxazole	723-46-6	2014	11/16	11/16	0.0053～0.19	(0.005)																	911
912	Sulfamethoxypyridazine	80-35-3	2014	0/16	0/16	—	(0.005)																	912
913	Sulfamonomethoxine	1220-83-3	2014	0/16	0/16	—	(0.005)																	913
914	Sulfanilamide	63-74-1	2014	10/14	10/14	0.0036～0.21	(0.0036)																	914
915	Sulfanitran	122-16-7	2014	0/16	0/16	—	(0.02)																	915
916	Sulfapyridine	144-83-2	2014	11/16	11/16	0.006～0.29	(0.005)																	916
917	Sulfaquinoxaline	59-40-5	2014	0/16	0/16	—	(0.005)																	917
918	Sulfathiazole	72-14-0	2014	0/16	0/16	—	(0.005)																	918
919	Sulfatroxazole	23256-23-7	2014	0/16	0/16	—	(0.005)																	919
920	Sulfisomidine	515-64-0	2014	1/16	1/16	0.013	(0.005)																	920
921	Sulfisoxazole	127-69-5	2014	0/16	0/16	—	(0.005)																	921
922	Sulfisozole	73247-57-1 (as sodium salt)	2014	0/16	0/16	—	(0.005)																	922
923	4,4'-Sulfonyldiphenol (synonym: Bisphenol S)	80-09-1	2022	25/32	25/32	0.0014～0.42	(0.0014)																	923
	2,4,5-T	See 2,4,5-Trichlorophenoxyacetic acid																						
924	Tacrolimus	104987-11-3	2014	0/17	0/17	—	(0.0012)																	924
	Tamoxifen	See (*Z*)-2-[4-(1,2-Diphenyl-1-butenyl)phenoxy]-*N*,*N*-dimethylethylamine																						
	TBP	See Tri-*n*-butyl phosphate																						
	TBT	See Organotin compounds (Tributyltin compounds)																						
	TBXP	See Tris(butoxyethyl) phosphate																						
	TCA	See Trichloroacetic acid																						
	TCEP	See Tris(2-chloroethyl) phosphate																						
	TCP	See Tritolyl phosphate																						
925	Tellurium and its compounds (as Tellurium)	13494-80-9	1975	20/80	4/16	10,000～70,000	(2,000～10,000)	20/80	4/16	1,350～4,780	(800～3,000)	Fish 20/75	Fish 4/12	Fish 620～4,040	(Fish 50～400)									925
			2006	0/12	0/4	—	(0.019)									15/15	5/5	0.019～0.43	(0.016)					
	Telodrine	See Isobenzan																						
926	Terephthalic acid	100-21-0	1975	6/100	3/20	200～700	(20～5,000)																	926
			1983	0/24	0/8	—	(2～50)	0/24	0/8	—	(0.05～0.28)													
			2002	3/69	2/23	0.060～0.12	(0.048)	8/63	4/21	0.010～0.020	(0.0086)													
			2016	22/22	22/22	0.0083～0.39	(0.0072)																	
927	Terephthalonitrile	623-26-7	1981	0/15	0/5	—	(0.1～5)	0/15	0/5	—	(0.001～0.05)													927
928	*o*-Terphenyl	84-15-1	1976	0/68	0/17	—	(0.004～25)	15/63	4/15	0.00075～0.39	(0.00019～0.25)	Fish 0/1	Fish 0/1	Fish —	(Fish 0.05)									928
			1977	0/117	0/39	—	(0.0014～20)	10/117	5/39	0.0012～0.1	(0.00016～1.6)	Fish 0/93	Fish 0/29	Fish —	(Fish 0.000028～0.5)									
			1986		0/18	—			6/18	0.0001～0.0042														
			1987		2/20	0.003～0.007			9/20	0.00003～0.020														
			1988		1/22	0.0008			6/22	0.000023～0.026														
			1989		0/17	—			4/17	0.00006～0.015														
			1990		1/18	0.0011			6/18	0.000028～0.0115														
			1991		0/18	—			5/18	0.000057～0.029														
			1992		0/18	—			7/18	0.000034～0.014														
			1993		0/19	—			9/19	0.000028～0.014														
			1994		0/17	—			5/17	0.000028～0.018														
			1995		0/18	—			4/18	0.000070～0.022														
			1996		0/18	—			4/18	0.000065～0.018														
			1997		0/18	—			7/18	0.000071～0.013														
			1998		0/18	—			5/18	0.00030～0.019														
			1999						4/18	0.00034～0.013														
			2000						5/17	0.00028～0.014														
			2001						3/20	0.00050～0.0051														
			2013	0/15	0/15	—	(0.00046)																	
929	*m*-Terphenyl	92-06-8	1976	0/68	0/17	—	(0.013～125)	31/63	8/15	0.001～0.21	(0.001～1.25)	Fish 0/1	Fish 0/1	Fish —	(Fish 0.25)									929
			1977	0/117	0/39	—	(0.005～20)	12/117	4/39	0.0021～0.19	(0.00069～1.2)	Fish 1/93	Fish 1/29	Fish 0.0024	(Fish 0.0001～1)									
			1986		1/18	0.01			8/18	0.0002～0.0470														
			1987		1/20	0.0004			17/20	0.00011～0.19														
			1988		0/22	—			10/22	0.000044～0.053														
			1989		0/17	—			10/17	0.00037～0.10														
			1990		1/18	0.005			12/18	0.00014～0.113														
			1991		0/18	—			15/18	0.00042～0.16														
			1992		1/18	0.0028			16/18	0.00033～0.20														
			1993		1/19	0.0017			16/19	0.00039～0.12														
			1994		1/17	0.0074			13/17	0.00044～0.14														
			1995		0/18	—			13/18	0.00073～0.14														
			1996		0/18	—			15/18	0.00062～0.11														
			1997		0/18	—			13/18	0.00054～0.13														
			1998		0/18	—			14/18	0.00063～0.18														
			1999						10/18	0.00057～0.095														
			2000						11/17	0.0011～0.16														
			2001						7/20	0.0023～0.067														
930	*p*-Terphenyl	92-94-4	1976	0/68	0/17	—	(0.025～125)	21/63	6/15	0.001～0.18	(0.001～1.25)	Fish 0/1	Fish 0/1	Fish —	(Fish 0.25)									930
			1977	0/117	0/39	—	(0.01～20)	7/117	3/39	0.0034～0.15	(0.0013～1.2)	Fish 0/93	Fish 0/29	Fish —	(Fish 0.0002～1)									
			1986		0/18	—			5/18	0.0004～0.0714														
			1987		0/20	—			15/20	0.00004～0.095														
			1988		0/22	—			11/22	0.000026～0.042														
			1989		0/17	—			9/17	0.00034～0.059														
			1990		0/18	—			10/18	0.000079～0.0992														

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1991		0/18	—			14/18	0.00022～0.087														
			1992		0/18	—			16/18	0.00016～0.11														
			1993		0/19	—			16/19	0.00016～0.078														
			1994		0/17	—			13/17	0.00024～0.11														
			1995		0/18	—			12/18	0.00011～0.12														
			1996		0/18	—			14/18	0.00026～0.059														
			1997		0/18	—			13/18	0.00050～0.052														
			1998		0/18	—			13/18	0.00011～0.11														
			1999						8/18	0.00025～0.055														
			2000						10/17	0.00054～0.082														
			2001						8/20	0.0012～0.038														
931	Testosterone	58-22-0	2007	0/51	0/17	—	(0.000079)																	931
932	1,3,5,7-Tetraazatricyclo[3.3.1.1(3.7)] decane	100-97-0	1983	0/30	0/10	—	(50～5,000)	0/30	0/10	—	(0.3～14)													932
933	1,2,4,5-Tetrabromobenzene	636-28-2	1981	0/18	0/6	—	(0.01～0.02)	0/18	0/6	—	(0.0002～0.00025)													933
	Tetrabromobiphenyl	See Polybromobiphenyl (Tetrabromobiphenyl)																						
	Tetrabromobisphenol A	See 2,2',6,6'-Tetrabromo-4,4'-(propane-2,2-diyl)diphenol																						
934	1,1,2,2-Tetrabromoethane	79-27-6	1976	0/60	0/12	—	(0.2～0.5)	0/40	0/10	—	(0.005～0.013)	Fish 0/20	Fish 0/4	Fish —	(Fish 0.005～0.0065)									934
935	Tetrabromomethane	558-13-4	1981	0/15	0/5	—	(0.004～3)	0/15	0/5	—	(0.00078～0.012)													935
936	2,2',6,6'-Tetrabromo-4,4'-(propane-2,2-diyl)diphenol	79-94-7	1977	0/15	0/7	—	(0.02～0.04)	0/15	0/7	—	(0.0013～0.007)													936
			1987	1/75	1/25	0.05	(0.03)	14/66	6/22	0.002～0.150	(0.002)	Fish 0/75	Fish 0/24	Fish —	(Fish 0.001)									
			1988	0/150	0/50	—	(0.04)	20/130	9/44	0.002～0.108	(0.002)	Fish 0/135	Fish 0/45	Fish —	(Fish 0.001)									
			2000	0/27	0/9	—	(0.090)	0/27	0/9	—	(5.5)	Fish 0/27	Fish 0/9	Fish —	(Fish 20)									
			2003					0/186	0/62	—	(5.5)	Bivalves 12/30 Fish 10/70 Birds 0/10	Bivalves 3/6 Fish 5/14 Birds 0/2	Bivalves 0.000035～0.00016 Fish 0.000033～0.00015 Birds —	(Bivalves 0.000030) (Fish 0.000030) (Birds 0.000030)									
			2004													0/6	0/2	—	(0.03)					
			2007	1/48	1/48	0.0051	(0.0021)	26/192	13/64	0.00057～0.0062	(0.00057)	Bivalves 2/31 Fish 7/80 Birds 0/10	Bivalves 1/7 Fish 4/16 Birds 0/2	Bivalves 0.00008～0.00009 Fish 0.00006～0.00009 Birds —	(Bivalves 0.00006) (Fish 0.00006) (Birds 0.00006)									
937	2,2',6,6'-Tetra-*tert* -butyl-4,4'-methylenediphenol	118-82-1	2010	1/72	1/24	0.0025	(0.0017)	28/90	12/30	0.00018～0.012	(0.00018)	6/33	3/11	0.00004～0.00014	(0.000037)									937
938	1,2,3,4-Tetrachlorobenzene	634-66-2	1975	0/100	0/20	—	(0.05)	0/100	0/20	—	(0.05)	Fish 0/95	Fish 0/19	Fish —	(Fish 0.05)					Precipitation 0/30	0/15	— μg/L	(0.05)	938
			1980									Bivalves 0/15 Fish 0/50	Bivalves 0/3 Fish 0/10	Bivalves — Fish —	(Bivalves 0.001) (Fish 0.001)									
			1981									Bivalves 0/20 Fish 1/46 Birds 0/7	Bivalves 0/4 Fish 1/9 Birds 0/1	Bivalves — Fish 0.001 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 0/20 Fish 1/50 Birds 0/9	Bivalves 0/4 Fish 1/10 Birds 0/2	Bivalves — Fish 0.001 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1983									Bivalves 0/20 Fish 0/50 Birds 0/10	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988									Bivalves 0/20 Fish 0/65 Birds 0/10	Bivalves 0/4 Fish 0/13 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990									Bivalves 5/25 Fish 0/65 Birds 0/10	Bivalves 1/5 Fish 0/13 Birds 0/2	Bivalves 0.001～0.002 Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992									Bivalves 1/30 Fish 0/70 Birds 0/10	Bivalves 1/6 Fish 0/14 Birds 0/2	Bivalves 0.001 Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994									Bivalves 5/30 Fish 0/70 Birds 0/5	Bivalves 1/6 Fish 0/14 Birds 0/1	Bivalves 0.001 Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996									Bivalves 0/30 Fish 0/70 Birds 0/5	Bivalves 0/6 Fish 0/14 Birds 0/1	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999													36/37	13/13	0.039～0.94	(0.015)					
												Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2007													W.S. 78/78 C.S. 75/75	W.S. 26/26 C.S. 25/25	W.S. 0.031～0.95 C.S. 0.033～0.40	(W.S. 0.0041) (C.S. 0.0041)					
			2009													W.S. 111/111 C.S. 111/111	W.S. 37/37 C.S. 37/37	W.S. 0.021～0.48 C.S. 0.026～0.38	(W.S. 0.0032) (C.S. 0.0032)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
939	1,2,3,5-Tetrachlorobenzene	634-90-2	1975	0/100	0/20	—	(0.05)	0/100	0/20	—	(0.05)	Fish 0/95	Fish 0/19	Fish —	(Fish 0.05)					Precipitation 0/30	0/15	−μg/L	(0.05)	939
			1980									Bivalves 0/15 Fish 0/50	Bivalves 0/3 Fish 0/10	Bivalves — Fish —	(Bivalves 0.001) (Fish 0.001)									
			1981									Bivalves 0/20 Fish 0/46 Birds 0/7	Bivalves 0/4 Fish 0/9 Birds 0/1	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 0/20 Fish 0/50 Birds 0/9	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1983									Bivalves 0/20 Fish 0/50 Birds 0/10	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988									Bivalves 0/20 Fish 0/65 Birds 0/10	Bivalves 0/4 Fish 0/13 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990									Bivalves 0/25 Fish 0/65 Birds 0/10	Bivalves 0/5 Fish 0/13 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994									Bivalves 0/30 Fish 0/70 Birds 0/5	Bivalves 0/6 Fish 0/14 Birds 0/1	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999													38/39	13/13	0.015～0.65	(0.011)					
												Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			2007													W.S. 78/78 C.S. 75/75	W.S. 26/26 C.S. 25/25	W.S. 0.007～0.29 C.S. 0.013～0.15	(W.S. 0.0058) (C.S. 0.0058)					
			2009													W.S. 111/111 C.S. 111/111	W.S. 37/37 C.S. 37/37	W.S. 0.0041～0.11 C.S. 0.0093～0.12	(W.S. 0.0034) (C.S. 0.0034)					
940	1,2,4,5-Tetrachlorobenzene	95-94-3	1975	0/100	0/20	—	(0.05)	0/100	0/20	—	(0.05)	Fish 0/95	Fish 0/19	Fish —	(Fish 0.05)					Precipitation 0/30	0/15	−μg/L	(0.05)	940
			1980									Bivalves 0/15 Fish 0/50	Bivalves 0/3 Fish 0/10	Bivalves — Fish —	(Bivalves 0.001) (Fish 0.001)									
			1981									Bivalves 0/20 Fish 0/46 Birds 0/7	Bivalves 0/4 Fish 0/9 Birds 0/1	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1982									Bivalves 0/20 Fish 1/50 Birds 0/9	Bivalves 0/4 Fish 1/10 Birds 0/2	Bivalves — Fish 0.003 Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1983									Bivalves 0/20 Fish 0/50 Birds 0/10	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1988									Bivalves 0/20 Fish 0/65 Birds 0/10	Bivalves 0/4 Fish 0/13 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990									Bivalves 0/25 Fish 0/65 Birds 0/10	Bivalves 0/5 Fish 0/13 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994									Bivalves 0/30 Fish 0/70 Birds 0/5	Bivalves 0/6 Fish 0/14 Birds 0/1	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1999									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)	34/35	12/12	0.019～0.40	(0.018)					
			2007													W.S. 78/78 C.S. 75/75	W.S. 26/26 C.S. 25/25	W.S. 0.020～0.39 C.S. 0.017～0.15	(W.S. 0.0056) (C.S. 0.0056)					
			2009													W.S. 111/111 C.S. 111/111	W.S. 37/37 C.S. 37/37	W.S. 0.021～0.15 C.S. 0.0046～0.12	(W.S. 0.0037) (C.S. 0.0037)					
			2011	0/23	0/23	－	(0.012)																	
941	2,3,5,6-Tetrachloro-*p*-benzoquinone	118-75-2	2015	0/14	0/14	－	(0.18)																	941
942	2,2',3,3'-Tetrachloro-4,4'-diaminodiphenylmethane	42240-73-3	1985	0/30	0/10	－	(5)	0/24	0/8	－	(0.8)													942
	3,3',5,5'-Tetrachloro-4,4'-diaminodiphenylmethane	See 4,4'-Methylenebis[2,6-dichloroaniline]																						
943	1,1,2,2-Tetrachloroethane	79-34-5	1976	0/60	0/13	－	(1～50)	0/40	0/11	－	(0.05～1.0)	Fish 0/10	Fish 0/2	Fish －	(Fish 0.2)									943
			2012	2/24	2/24	0.10～0.12	(0.10)																	
944	Tetrachloroethane (synonym: CFC-112)	76-12-0	2006	0/15	0/5	－	(0.011)																	944
945	Tetrachloroethylene	127-18-4	1974	5/60	1/12	3	(0.2～2)													Precipitation 0/18	0/7	－ppm	(0.0002～0.002)	945
			1975	73/395	16/79	0.15～9.5	(0.06～0.2)													Precipitation 3/114	2/56	0.2～0.3μg/L	(0.06～0.2)	
			1979													33/45	12/16	14～1,500	(4～120)					
			1980													103/135	22/25	10～1,700	(4～120)					
			1983													107/108	12/12	10～1,500	(8～20)					
			1988	12/51	4/17	0.040～0.15	(0.001～0.5)	2/51	1/17	0.0022～0.020	(0.0002～0.01)					W.S. 15/15 C.S. 15/15	W.S. 7/7 C.S. 7/7	W.S. 60～3,300 C.S. 69～8,200	(W.S. 2～250) (C.S. 2～250)					
			1989													31/35	11/12	15～9,300	(1～1,500)					
			1990													136/137	20/20	23～11,000	(16)	Outdoor air 24/24 Indoor air 72/72 Food 55/72	Outdoor air 8/8 Indoor air 8/8 Food 8/8	Outdoor air 57～11,000 ng/m^3 Indoor air 70～21,000 ng/m^3 Food 0.2～2.2ng/g-wet	(Outdoor air 50) (Indoor air 50) (Food 0.2)	
			1991													144/144	21/21	24～13,000	(16)	Outdoor air 27/27 Indoor air 81/81 Food 60/81	Outdoor air 9/9 Indoor air 9/9 Food 9/9	Outdoor air 240～11,000 ng/m^3 Indoor air 170～110,000 ng/m^3 Food 0.2～3.9ng/g-wet	(Outdoor air 50) (Indoor air 50) (Food 0.2)	
			1992													151/158	23/23	65～13,000	(60)	Outdoor air 27/27 Indoor air 78/81 Food 34/81	Outdoor air 9/9 Indoor air 9/9 Food 6/9	Outdoor air 170～13,000 ng/m^3 Indoor air 160～9,200 ng/m^3 Food 0.2～1.3ng/g-wet	(Outdoor air 60) (Indoor air 60) (Food 0.2)	
			1993													117/117	28/28	36～4,800	(10)	Outdoor air 27/27 Indoor air 81/81 Food 36/81	Outdoor air 9/9 Indoor air 9/9 Food 7/9	Outdoor air 160～2,400 ng/m^3 Indoor air 98～59,000 ng/m^3 Food 0.2～4.4ng/g-wet	(Outdoor air 4) (Indoor air 4) (Food 0.2)	
			1994													109/114	28/29	38～5,800	(30)	Outdoor air 26/26 Indoor air 74/81 Food 28/81	Outdoor air 9/9 Indoor air 9/9 Food 4/9	Outdoor air 54～3,100 ng/m^3 Indoor air 100～7,200 ng/m^3 Food 0.2～3.1ng/g-wet	(Outdoor air 50) (Indoor air 100) (Food 0.2)	
			1995													110/111	29/29	11～4,100	(7)	Outdoor air 26/26 Indoor air 75/81 Food 21/81	Outdoor air 9/9 Indoor air 9/9 Food 5/9	Outdoor air 24～4,100 ng/m^3 Indoor air 20～12,000 ng/m^3 Food 0.2～0.6ng/g-wet	(Outdoor air 4) (Indoor air 16) (Food 0.2)	
			1996													121/122	31/31	21～5,800	(21)	Outdoor air 31/32 Indoor air 73/81 Food 2/81	Outdoor air 8/8 Indoor air 9/9 Food 2/9	Outdoor air 100～2,700 ng/m^3 Indoor air 59～8,400 ng/m^3 Food 0.7～3.2ng/g-wet	(Outdoor air 21) (Indoor air 50) (Food 0.5)	
			1997																	Indoor air 79/79 Food 3/81	Indoor air 9/9 Food 3/9	Indoor air 80～14,700 ng/m^3 Food 0.5～2.5ng/g-wet	(Indoor air 10) (Food 0.5)	
			1998																	Indoor air 80/80 Food 7/81	Indoor air 9/9 Food 3/9	Indoor air 70～14,000 ng/m^3 Food 0.3～1.6ng/g-wet	(Indoor air 10) (Food 0.2)	
			1999													37/37	10/10	23～2,300	(10)	Outdoor air 32/32 Indoor air 72/72 Food 10/72	Outdoor air 8/8 Indoor air 8/8 Food 3/8	Outdoor air 23～2,300 ng/m^3 Indoor air 40～9,400 ng/m^3 Food 0.2～1.0ng/g-wet	(Outdoor air 10) (Indoor air 10) (Food 0.2)	

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			2000													41/41	11/11	39～1,700	(10)	Outdoor air 30/30 Indoor air 72/72	Outdoor air 8/8 Indoor air 8/8	Outdoor air 59～1,700 ng/m^3 Indoor air 58～23,000 ng/m^3	(Outdoor air 10) (Indoor air 10)	
			2001													40/40	10/10	40～1,700	(10)	Outdoor air 28/28 Indoor air 63/63	Outdoor air 7/7 Indoor air 7/7	Outdoor air 120～1,700 ng/m^3 Indoor air 72～9,900 ng/m^3	(Outdoor air 10) (Indoor air 10)	
	cis-*N*-(1,1,2,2-Tetrachloroethylthio)-4-cyclohexene-1,2-dicarboxamide	See *N*-(1,1,2,2-Tetrachloroethylthio)-1,2,3,6-tetrahydrophthalimide																						
946	*N*-(1,1,2,2-Tetrachloroethylthio)-1,2,3,6-tetrahydrophthalimide (synonym: Captafol)	2425-06-1	1980	0/18	0/6	—	(0.03～0.1)	0/18	0/6	—	(0.001～0.005)													946
947	Tetrachloroisophthalonitrile (synonym: Chlorothalonil or TPN)	1897-45-6	1977	0/3	0/1	—	(10)	0/3	0/1	—	(0.1)													947
			1991	0/57	0/19	—	(0.13)	0/30	0/10	—	(0.05)	Fish 0/30	Fish 0/10	Fish —	(Fish 0.04)	0/51	0/17	—	(5)					
			2001	0/51	0/17	—	(0.010)																	
			2006	0/24	0/8	—	(0.0005)																	
948	Tetrachloromethane	56-23-5	1974	0/60	0/12	—	(0.02～0.5)													Precipitation 2/18	1/7	0.0102～0.0105ppm	(0.00002～0.0005)	948
			1975	105/375	25/75	0.02～1.3	(0.01～0.3)													Precipitation 17/108	11/53	0.022～3.6μg/L	(0.02～0.3)	
			1979													42/45	15/16	40～790	(1～30)					
			1980													122/131	24/24	22～760	(1～30)					
			1983													108/108	12/12	19～950	(2.5～30)					
			1988	9/51	4/17	0.0031～0.004	(0.001～0.25)	6/51	4/17	0.0001～0.0004	(0.00002～0.004)					W.S. 15/15 C.S. 15/15	W.S. 7/7 C.S. 7/7	W.S. 33～1,800 C.S. 110～1,500	(W.S. 0.5～300) (C.S. 0.5～300)					
			1989													33/35	12/12	29～2,500	(1～250)					
			1990													137/137	20/20	28～2,900	(25)	Outdoor air 24/24 Indoor air 70/72 Food 0/72	Outdoor air 8/8 Indoor air 8/8 Food 0/8	Outdoor air 49～1,400 ng/m^3 Indoor air 55～1,200 ng/m^3 Food —ng/g-wet	(Outdoor air 20) (Indoor air 20) (Food 0.2)	
			1991													144/144	21/21	30～2,000	(25)	Outdoor air 27/27 Indoor air 80/81 Food 10/81	Outdoor air 9/9 Indoor air 9/9 Food 3/9	Outdoor air 110～2,000 ng/m^3 Indoor air 70～3,100 ng/m^3 Food 0.3～1.3ng/g-wet	(Outdoor air 10) (Indoor air 10) (Food 0.2)	
			1992													158/158	23/23	55～1,900	(25)	Outdoor air 27/27 Indoor air 81/81 Food 11/81	Outdoor air 9/9 Indoor air 9/9 Food 3/9	Outdoor air 55～1,400 ng/m^3 Indoor air 41～2,200 ng/m^3 Food 0.2～6.4ng/g-wet	(Outdoor air 25) (Indoor air 25) (Food 0.2)	
			1993													115/115	28/28	140～1,700	(1)	Outdoor air 27/27 Indoor air 81/81 Food 5/81	Outdoor air 9/9 Indoor air 9/9 Food 3/9	Outdoor air 270～1,200 ng/m^3 Indoor air 110～5,700 ng/m^3 Food 0.4～4.2ng/g-wet	(Outdoor air 4) (Indoor air 4) (Food 0.2)	
			1994													111/111	28/28	42～1,400	(1)	Outdoor air 24/24 Indoor air 77/77 Food 1/81	Outdoor air 8/8 Indoor air 9/9 Food 1/9	Outdoor air 42～1,200 ng/m^3 Indoor air 62～1,400 ng/m^3 Food 0.2ng/g-wet	(Outdoor air 20) (Indoor air 20) (Food 0.2)	
			1995													111/111	29/29	37～1,480	(2)	Outdoor air 25/27 Indoor air 79/81 Food 5/81	Outdoor air 9/9 Indoor air 9/9 Food 1/9	Outdoor air 60～1,100 ng/m^3 Indoor air 160～12,000 ng/m^3 Food 0.2～1.0ng/g-wet	(Outdoor air 7) (Indoor air 100) (Food 0.2)	
			1996													120/126	31/32	15～2,520	(10)	Outdoor air 30/36 Indoor air 62/81 Food 2/81	Outdoor air 8/9 Indoor air 7/9 Food 2/9	Outdoor air 15～1,100 ng/m^3 Indoor air 104～980 ng/m^3 Food 0.2～0.3ng/g-wet	(Outdoor air 10) (Indoor air 100) (Food 0.2)	
			1997													128/128	34/34	12～2,400	(10)	Outdoor air 35/35 Indoor air 79/79 Food 5/81	Outdoor air 9/9 Indoor air 9/9 Food 1/9	Outdoor air 230～1,540 ng/m^3 Indoor air 53～5,010 ng/m^3 Food 0.23～0.58ng/g-wet	(Outdoor air 10) (Indoor air 5) (Food 0.2)	
			1998													130/130	33/33	240～2,100	(10)	Outdoor air 36/36 Indoor air 81/81 Food 1/81	Outdoor air 9/9 Indoor air 9/9 Food 1/9	Outdoor air 340～1,100 ng/m^3 Indoor air 190～5,600 ng/m^3 Food 0.7ng/g-wet	(Outdoor air 10) (Indoor air 10) (Food 0.2)	

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1999													119/119	30/30	250～1,700	(10)	Outdoor air 32/32 Indoor air 72/72 Food 0/72	Outdoor air 8/8 Indoor air 8/8 Food 0/8	Outdoor air 410～790 ng/m^3 Indoor air 260～990 ng/m^3 Food －ng/g-wet	(Outdoor air 10) (Indoor air 10) (Food 0.2)	
			2000													117/117	30/30	130～1,200	(10)	Outdoor air 30/30 Indoor air 72/72	Outdoor air 8/8 Indoor air 8/8	Outdoor air 130～830 ng/m^3 Indoor air 150～1,100 ng/m^3	(Outdoor air 1.2) (Indoor air 1)	
			2001													115/115	30/30	130～2,300	(10)	Outdoor air 26/26 Indoor air 57/57	Outdoor air 7/7 Indoor air 7/7	Outdoor air 130～860 ng/m^3 Indoor air 190～1,700 ng/m^3	(Outdoor air 10) (Indoor air 10)	
949	2,3,4,6-Tetrachlorophenol	58-90-2	1978	0/21	0/7	－	(0.04～0.3)	0/21	0/7	－	(0.003～0.03)													949
			1996	0/33	0/11	－	(0.25)	0/33	0/11	－	(0.009)													
950	Tetracycline	60-54-8	2014	0/16	0/16	－	(0.0083)																	950
951	Tetraethoxysilan	78-10-4	1992													0/18	0/6	－	(2.5)					951
	Tetraethylthiuram disulfide	See Disulfiram																						
952	1,1,1,2-Tetrafluoroethane (synonym: HCFC-134a)	811-97-2	2003													58/58	20/20	100～1,800	(7)					952
953	Tetrafluoroethylene	116-14-3	2012													8/30	4/10	68～2,800	(61)					953
954	2,3,5,6-Tetrafluoro-4-methylbenzyl (Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate (synonym: Tefluthrin)	79538-32-2	2006	0/27	0/9	－	(0.008)									0/18	0/6	－	(0.5)					954
	2,2,3,3-Tetrafluoropropionic acid	See Sodium 2,2,3,3-tetrafluoropropionate																						
955	2,2,3,3-Tetrafluoropropionic acid and its salts	22898-01-7	1984	0/21	0/7	－	(0.1～2)	0/21	0/7	－	(0.001～0.02)													955
956	Tetrahydrofuran	109-99-9	1979	0/33	0/11	－	(0.2～25)	0/33	0/11	－	(0.0001～0.033)													956
			1996	0/33	0/11	－	(1)									5/18	2/6	180～810	(110)					
			2006													9/21	3/7	120～260	(60)					
957	1,2,3,4-Tetrahydronaphthalene	119-64-2	1977	0/9	0/3	－	(0.1～1)	0/6	0/2	－	(0.004～0.1)													957
	Tetrahydronaphthalene	See 1,2,3,4-Tetrahydronaphthalene																						
958	Tetrahydrothiophene-1,1-dioxide	126-33-0	1976	0/60	0/15	－	(0.16～1)	0/55	0/13	－	(0.007～0.260)	Fish 0/1	Fish 0/1	Fish －	(Fish 0.02)									958
959	2,2',4,4'-Tetrahydroxybenzophenone	131-55-5	2014	1/21	1/21	0.013	(0.012)																	959
960	Tetramethylammonium hydroxide	75-59-2	2021	1/23	1/23	0.35	(0.12)																	960
961	4-(1,1,3,3-Tetramethylbutyl)pheno	140-66-9	1977	0/6	0/2	－	(0.04～1.5)	2/6	1/2	0.004	(0.004～0.058)													961
			2005	19/33	7/11	0.0026～0.024	(0.0019)																	
			2010					30/87	13/29	0.0021～0.086	(0.0019)													
			2012	19/24	19/24	0.00039～0.031	(0.00036)																	
962	Tetramethyl-thiodicarbonic diamide	97-74-5	1985	0/27	0/9	－	(0.9)	0/27	0/9	－	(0.009)													962
			1992	0/30	0/10	－	(1)	0/30	0/10	－	(0.02)													
963	Tetramethylthiuram disulfide (synonym: Thiuram or Thiram)	137-26-8	1985	0/27	0/9	－	(0.9)	0/27	0/9	－	(0.02)													963
			1992	0/30	0/10	－	(1)																	
	Tetramethylthiuram monosulfide	See Tetramethyl-thiodicarbonic diamide																						
964	2,5,8,11-Tetraoxadodecane (synonym: Triethylene glycol dimethyl ether)	112-49-2	2022	0/35	0/35	－	(0.62)																	964
	Tetraphenyltin compound	See Organotin compounds (Tetraphenyltin compound)																						
965	Thallium and its compounds (as Thallium)	7440-28-0 etc.	1975	28/100	10/20	200～3,000	(40～2,000)	47/100	14/20	18～3,600	(16～600)	Fish 37/100	Fish 10/20	Fish 5.5～930	(Fish 1～200)									965
			2006	12/12	4/4	0.0030～0.016	(0.0017)									15/15	5/5	0.024～0.21	(0.002)					
			2019	24/24	24/24	0.0034～0.10	(0.00014)									39/39	13/13	0.0036～0.43	(0.00020)					
	Thiabendazole	See 2-(1,3-Thiazol-4-yl)-1*H*-benzoimidazole																						
966	2-(1,3-Thiazol-4-yl)-1*H*-benzoimidazole	148-79-8	1986	0/27	0/9	－	(1)	0/27	0/9	－	(0.2)													966
			2019	11/26	11/26	0.00096～0.014	(0.00069)																	
	Thiobencarb	See *S*-(4-chlorobenzyl) *N*,*N*-diethylthiocarbamate																						
	4,4'-Thiobis (6-*tert*-butyl-3-metylphenol)	See 4,4'-Thiobis[2-(1,1-dimetyletyl)-5-metyl]phenol																						
967	4,4'-Thiobis[2-(1,1-dimetyletyl)-5-metyl]phenol	96-69-5	1981	0/18	0/6	－	(1～5)	0/18	0/6	－	(0.01～0.2)													967
968	2-(Thiocyanatomethylthio)-1,3-benzothiazole (synonym: TCMTB)	21564-17-0	2013	1/15	1/15	0.0011～0.0011	(0.00082)																	968
969	Thiocyanic acid and its solts	463-56-9	2018	24/24	24/24	0.0025～0.12	(0.0011)																	969
	Thiometon	See *S*-2-(Ethylthio) ethyl *O*,*O*-dimethyl dithiophosphate																						
	Thiophanate-methyl	See Dimethyl 4,4'-(*o*-phenylene)bis(3-thioallophanate)																						
970	Thiophene	110-02-1	1985	0/24	0/8	－	(0.005)	3/24	1/8	0.0002～0.0015	(0.0001)													970
971	Thiourea	62-56-6	1977	0/6	0/4	－	(1.1～400)	0/6	0/4	－	(0.055～1)													971
			2013	2/23	2/23	0.25～310	(0.14)																	
972	2-Thioxo-3,5-dimethyltetrahydro-2*H*-1,3,5-thiadiazine (synonym: Dazomet)	533-74-4	2007	0/33	0/11	－	(0.420)																	972
	Thiram	See Tetramethylthiuram disulfide																						
	Thiuram	See Tetramethylthiuram disulfide																						
973	*L*-Thyroxine	51-48-9	2010	0/57	0/19	－	(0.00015)																	973
974	Tiamulin	55297-95-5	2019	6/27	6/27	0.000024～0.0031	(0.000013)																	974
975	Tin and its compounds (as Tin)	7440-31-5 etc.	1974	0/60	0/12	－	(0.05～6.3)	39/59	8/12	11～210		Bivalves 14/35 Fish 6/25	Bivalves 3/7 Fish 2/5	Bivalves 4.8～6.7 Fish 2.3～3.4										975
976	Titanium and its compounds (as Titanium)	744-32-6 etc.	1975	69/100	15/20	3,000～700,000	(2,000～5,000)	100/100	20/20	120,000～6,800,000		Fish 50/100	Fish 12/17	Fish 20～3,150	(Fish 50～100)									976
	TMP	See Trimethyl phosphate																						
	o-Tolidine	See 3,3'-Dimethylbenzidine																						

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
977	Toluene	108-88-3	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.004)													977
			1985	9/21	3/7	0.10～0.23	(0.06)	9/21	3/7	0.0004～0.010	(0.0004)													
			1986	29/91	16/32	0.03～2.7	(0.03)	46/87	19/31	0.0005～0.044	(0.0005)	Fish 31/105	Fish 16/33	Fish 0.003～0.020	(Fish 0.003)									
			1998													42/42	14/14	1,100～85,000	(80)					
	2,4-Toluenediamine	See 2,4-Diaminotoluene																						
978	Toluene-2,3-diamine	2687-25-4	1978	0/24	0/8	—	(1～20)	0/24	0/8	—	(0.7～1.1)													978
979	2-Toluenesulfonamide	88-19-7	1977	0/6	0/2	—	(10)	0/6	0/2	—	(0.005～0.048)													979
			1992	6/84	2/28	0.27～0.67	(0.2)	6/84	3/28	0.0099～0.045	(0.008)													
	o -Toluenesulfonamide	See 2-Toluenesulfonamide																						
980	*p* -Toluenesulfonamide	70-55-3	1992	9/162	3/54	0.52～0.84	(0.3)	26/162	11/54	0.009～0.854	(0.0083)													980
	p -Toluenesulfonyl chloride	See 4-Methylbenzenesulfonyl chloride																						
981	*o* -Toluidine	95-53-4	1976	8/68	4/20	0.14～20	(0.1～0.6)	27/68	12/20	0.002～0.072	(0.002～0.012)													981
			1985													0/72	0/12	—	(0.05 ～150)					
			1998	0/39	0/13	—	(0.08)	7/36	3/12	0.0054～0.0074	(0.0043)													
			2010	40/96	14/32	0.0019～0.0080	(0.0019)																	
			2017													0/45	0/15	—	(1.8)					
982	*m* -Toluidine	108-44-1	1976	4/68	3/20	0.096～0.26	(0.08～0.2)	32/68	13/20	0.002～0.056	(0.001～0.004)													982
			1985													0/72	0/12	—	(0.02～100)					
			1998	0/39	0/13	—	(0.2)	0/39	0/13	—	(0.01)													
			2017													0/45	0/15	—	(0.91)					
983	*p* -Toluidine	106-49-0	1976	11/68	6/20	0.032～0.18	(0.02～0.2)	35/68	14/20	0.0007～0.090	(0.0004～0.0008)													983
			1985													0/72	0/12	—	(0.02～50)					
			1998	0/39	0/13	—	(0.09)	0/36	0/12	—	(0.007)													
			2010	32/84	13/28	0.00051～0.0029	(0.00050)																	
			2017													0/45	0/15	—	(1.4)					
	p -Toluidine-2-sulfonic acid	See 2-Amino-5-methylbenzenesulfonic acid																						
	2,3-Toluylenediamine	See Toluene-2,3-diamine																						
	2,6-Toluylenediamine	See 2-Methyl-*m* -phenylenediamine																						
984	*m* -Tolyl methylcarbamate (synonym: MTMC)	1129-41-5	1988	0/75	0/25	—	(0.5)	0/69	0/23	—	(0.0103)					1/72	1/12	8.0	(7.0)					984
			1994	0/30	0/10	—	(0.02)	0/30	0/10	—	(0.003)	Fish 0/30	Fish 0/10	Fish —	(Fish 0.003)									
	Toxaphenes	See Polychloro-2,2-dimethyl-3-methylidenebicyclo[2.2.1]heptanes																						
	TPN	See Tetrachloroisophthalonitrile																						
	Trenbolone	See 17β -Hydroxyestra-4,9,11-trien-3-one																						
985	Triallylamine	102-70-5	1981	0/27	0/9	—	(1～5)	0/27	0/9	—	(0.01 ～0.02)													985
986	1,3,5-Tribromobenzene	626-39-1	1981	0/18	0/6	—	(0.01～0.03)	0/18	0/6	—	(0.0002～0.0003)													986
987	1,3,5-Tribromo-2-(2,3-dibromo-2-methylpropoxy) benzene	36065-30-2	1979	0/21	0/7	—	(0.1～0.5)	0/21	0/7	—	(0.02～0.05)													987
988	Tribromomethane	75-25-2	1976	0/60	0/12	—	(0.2～26)	0/40	0/10	—	(0.005～0.35)	Fish 0/20	Fish 0/4	Fish —	(Fish 0.005～0.0065)									988
			1980													0/63	0/12	—	(4～300)					
989	2,4,6-Tribromophenol	118-79-6	1986	0/33	0/11	—	(0.006)	2/33	1/11	0.0015～0.0040	(0.0005)													989
			1996	0/33	0/11	—	(0.35)	0/33	0/11	—	(0.009)													
			2004													6/6	2/2	0.03～0.14	(0.02)					
			2005	15/18	5/6	0.0019～0.080	(0.00087)																	
	2,4,6-Tribromophenyl (2-methyl-2,3-dibromopropyl) ether	See 1,3,5-Tribromo-2-(2,3-dibromo-2-methylpropoxy) benzene																						
990	Tributylamine	102-82-9	1986	0/30	0/10	—	(3)	0/27	0/9	—	(0.08)													990
			2024	0/25	0/25	—	(0.011)	62/81	22/27	0.00029～0.028	(0.00028)													
	Tri-*n* -butylamine	See Tributylamine																						
991	1,3,5-Tri-*tert* -butylbenzene	1460-02-2	2000	0/39	0/13	—	(0.00031)	0/33	0/11	—	(0.30)	Fish 0/33	Fish 0/11	Fish —	(Fish 0.43)									991
992	2,4,6-Tri-*sec* -butylphenol	5892-47-7	1984	0/30	0/10	—	(0.1～0.3)	0/30	0/10	—	(0.001～0.0071)													992
993	2,4,6-Tri-*tert* -butylphenol	732-26-3	1984	0/30	0/10	—	(0.04～0.08)	3/30	1/10	0.0023～0.0082	(0.0004～0.0019)													993
			2001	0/153	0/51	—	(0.020)	2/159	1/53	0.0093～0.014	(0.0070)													
			2002	0/48	0/16	—	(0.020)	0/57	0/19	—	(0.0065)	Fish 0/21	Fish 0/7	Fish —	(Fish 0.021)									
			2003													0/27	0/9	—	(0.9)					
			2006									Bivalves 0/31 Fish 3/80 Birds 0/10	Bivalves 0/7 Fish 1/16 Birds 0/2	Bivalves — Fish 0.0025～0.0047 Birds —	(Bivalves 0.0022) (Fish 0.0022) (Birds 0.0022)	W.S. 3/111 C.S. 0/111	W.S. 1/37 C.S. 0/37	W.S. 1.5～13 C.S. —	(W.S. 0.28) (C.S. 0.28)					
			2008	0/48	0/48	—	(0.016)	3/185	1/63	0.0050～0.017	(0.0017)	Bivalves 0/31 Fish 0/85 Birds 0/10	Bivalves 0/7 Fish 0/17 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.0014) (Fish 0.0014) (Birds 0.0014)	W.S. 0/33 C.S. 1/34	W.S. 0/81 C.S. 3/92	W.S. — C.S. 1.1～1.7	(W.S. 0.22) (C.S. 0.22)					
	Tributyl phosphate	See Tri-*n* -butyl phosphate																						
994	Tributyl phosphate	126-73-8	1975	21/100	6/20	0.02～0.71	(0.01～0.10)	34/100	10/20	0.001～0.350	(0.001～0.025)	Fish 31/94	Fish 10/19	Fish 0.003～0.026	(Fish 0.002～0.0025)									994
			1977	39/117	18/39	0.006～0.58	(0.006～0.5)	48/117	19/39	0.0019～0.24	(0.001～0.17)	Fish 27/85	Fish 13/29	Fish 0.0011～0.011	(Fish 0.001～0.12)									
			1980									Bivalves 0/15 Fish 0/50	Bivalves 0/3 Fish 0/10	Bivalves — Fish —	(Bivalves 0.01) (Fish 0.01)									
			1981									Bivalves 5/20 Fish 5/46 Birds 7/7	Bivalves 1/4 Fish 1/9 Birds 1/1	Bivalves 0.01～0.02 Fish 0.02 Birds 0.01～0.12	(Bivalves 0.01) (Fish 0.01～0.05) (Birds 0.01)									
			1982									Bivalves 0/20 Fish 2/50 Birds 3/9	Bivalves 0/4 Fish 1/10 Birds 1/2	Bivalves — Fish 0.01～0.02 Birds 0.02～0.03	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1983									Bivalves 0/20 Fish 0/50 Birds 5/10	Bivalves 0/4 Fish 0/10 Birds 1/2	Bivalves — Fish — Birds 0.03～0.25	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1984									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves — Fish — Birds —	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1985									Bivalves 0/20 Fish 5/60 Birds 0/10	Bivalves 0/4 Fish 1/12 Birds 0/2	Bivalves — Fish 0.01～0.02 Birds —	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1987									Bivalves 0/20 Fish 0/65 Birds 0/10	Bivalves 0/4 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1988		5/22	0.053～0.56			8/22	0.00050～0.018														
			1989		2/15	0.016～0.18			6/15	0.0027～0.0083		Bivalves 1/21 Fish 1/65 Birds 0/10	Bivalves 1/5 Fish 1/13 Birds 0/2	Bivalves 0.01 Fish 0.02 Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1990		3/17	0.078～0.13			9/17	0.00032～0.0343														
			1991		3/17	0.065～0.22			8/17	0.0018～0.014		Bivalves 0/30 Fish 1/65 Birds 0/10	Bivalves 0/6 Fish 1/13 Birds 0/2	Bivalves － Fish 0.02 Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1992		4/17	0.013～0.033			7/15	0.0019～0.0099														
			1993	66/148	26/51	0.011～0.26	(0.011)	51/159	22/53	0.002～0.13	(0.002)	Fish 4/150	Fish 2/49	Fish 0.006～0.017	(Fish 0.005)	9/39	6/14	1.2～45	(1)					
			1994		4/17	0.025～0.45			10/17	0.00079～0.049														
			1995		4/18	0.017～0.072			11/18	0.00052～0.060		Bivalves 1/30 Fish 0/70 Birds 0/10	Bivalves 1/6 Fish 0/14 Birds 0/2	Bivalves 0.01 Fish － Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			1996		1/18	0.0625			9/18	0.00066～0.01417														
			1997		3/18	0.026～0.152			8/18	0.00008～0.00784														
			1998													29/40	13/15	0.22～7.5	(0.2)					
					2/18	0.069～0.23			10/18	0.0023～0.038														
			1999						10/18	0.0035～0.053		Bivalves 5/30 Fish 4/70 Birds 0/10	Bivalves 1/6 Fish 1/14 Birds 0/2	Bivalves 0.02～0.03 Fish 0.01 Birds －	(Bivalves 0.01) (Fish 0.01) (Birds 0.01)									
			2000						9/17	0.00061～0.013														
			2001						12/20	0.0021～0.052														
			2006	28/57	10/19	0.010～0.084	(0.010)					Bivalves 0/31 Fish 0/80 Birds 0/10	Bivalves 0/7 Fish 0/16 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.0004) (Fish 0.0004) (Birds 0.0004)									
			2008	29/43	29/43	0.0080～0.094	(0.0079)	94/173	41/60	0.00073～0.019	(0.00073)	Bivalves 21/31 Fish 8/76 Birds 4/10	Bivalves 6/7 Fish 3/16 Birds 1/2	Bivalves 0.00041～0.0012 Fish 0.00041～0.00070 Birds 0.00041～0.00063	(Bivalves 0.00040) (Fish 0.00040) (Birds 0.00040)									
			2024	23/33	23/33	0.00034～0.035	(0.00033)	0/66	0/22	－	(0.0047)					18/48	11/16	0.071～0.35	(0.067)					
	Tributyltin compounds	See Organotin compounds (Tributyltin compounds)																						
	Trichlorfon	See Dimethy 2,2,2-trichloro-1-hydroxyethylphosphonate																						
995	Trichloroacetaldehyde	75-87-6	2006	0/21	0/7	－	(0.01)																	995
996	Trichloroacetic acid	76-03-9	1984	0/21	0/7	－	(5)	0/21	0/7	－	(0.02～0.05)													996
			2023	28/38	28/38	0.044～5.2	(0.031)																	
997	2,4,5-Trichloroaniline	636-30-6	1981	0/15	0/5	－	(0.001～0.005)	0/15	0/5	－	(0.0002～0.001)													997
998	2,4,6-Trichloroaniline	634-93-5	1981	0/15	0/5	－	(0.001～0.006)	0/15	0/5	－	(0.0002～0.001)													998
999	1,2,3-Trichlorobenzene	87-61-6	1975	0/95	0/19	－	(0.08～0.3)	0/95	0/19	－	(0.002～0.1)	Fish 0/75	Fish 0/15	Fish －	(Fish 0.005～0.1)					Precipitation 0/24	0/12	－μg/L	(0.08～0.3)	999
			1979	2/111	1/37	0.05～0.07	(0.01～0.4)	19/111	10/37	0.0004～0.053	(0.0001～0.1)	Fish 0/93	Fish 0/27	Fish －	(Fish 0.0001～0.1)									
			1980									Bivalves 0/15 Fish 0/50	Bivalves 0/3 Fish 0/10	Bivalves － Fish －	(Bivalves 0.001) (Fish 0.001)									
			1981									Bivalves 0/20 Fish 5/46 Birds 1/7	Bivalves 0/4 Fish 1/9 Birds 1/1	Bivalves － Fish 0.002～0.004 Birds 0.001	(Bivalves 0.001～0.01) (Fish 0.001～0.002) (Birds 0.001)									
			1982									Bivalves 0/20 Fish 3/50 Birds 0/9	Bivalves 0/4 Fish 1/10 Birds 0/2	Bivalves － Fish 0.003～0.006 Birds －	(Bivalves 0.001) (Fish 0.001～0.002) (Birds 0.001)									
			1983									Bivalves 0/20 Fish 0/50 Birds 0/10	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986									Bivalves 0/20 Fish 0/60 Birds 1/10	Bivalves 0/4 Fish 0/12 Birds 1/2	Bivalves － Fish － Birds 0.004	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)	22/73	6/12	1.1～12	(1.0)					
			1988									Bivalves 0/20 Fish 0/65 Birds 0/10	Bivalves 0/4 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990									Bivalves 5/25 Fish 0/65 Birds 0/10	Bivalves 1/5 Fish 0/13 Birds 0/2	Bivalves 0.004～0.007 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992									Bivalves 5/30 Fish 1/70 Birds 0/10	Bivalves 1/6 Fish 1/14 Birds 0/2	Bivalves 0.001～0.003 Fish 0.002 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994									Bivalves 5/30 Fish 0/70 Birds 0/5	Bivalves 1/6 Fish 0/14 Birds 0/1	Bivalves 0.002～0.003 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996									Bivalves 5/30 Fish 0/70 Birds 0/10	Bivalves 1/6 Fish 0/14 Birds 0/2	Bivalves 0.001 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1999									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)	38/38	13/13	0.018～11	(0.015)					
			2007													W.S. 78/78 C.S. 75/75	W.S. 26/26 C.S. 25/25	W.S. 0.019～1.7 C.S. 0.026～1.7	(W.S. 0.011) (C.S. 0.011)					
1000	1,2,4-Trichlorobenzene	120-82-1	1975	0/95	0/19	－	(0.03～0.4)	4/95	2/19	0.002～0.022	(0.002～0.1)	Fish 2/75	Fish 1/15	Fish 0.1～0.2	(Fish 0.0005～0.1)					Precipitation 0/24	0/12	－μg/L	(0.03～0.4)	1000
			1979	8/111	3/37	0.01～0.13	(0.01～0.4)	33/111	15/37	0.0002～0.030	(0.0001～0.1)	Fish 7/93	Fish 3/27	Fish 0.0003～0.003	(Fish 0.0001～0.1)									
			1980									Bivalves 0/15 Fish 2/50	Bivalves 0/3 Fish 2/10	Bivalves － Fish 0.001～0.002	(Bivalves 0.001) (Fish 0.001)									
			1981									Bivalves 0/20 Fish 14/46 Birds 6/7	Bivalves 0/4 Fish 4/9 Birds 1/1	Bivalves － Fish 0.001～0.010 Birds 0.001～0.004	(Bivalves 0.001) (Fish 0.001～0.003) (Birds 0.001)									
			1982									Bivalves 0/20 Fish 5/50 Birds 0/9	Bivalves 0/4 Fish 2/10 Birds 0/2	Bivalves － Fish 0.001～0.012 Birds －	(Bivalves 0.001) (Fish 0.001～0.003) (Birds 0.001)									
			1983									Bivalves 3/20 Fish 5/50 Birds 6/10	Bivalves 1/4 Fish 1/10 Birds 2/2	Bivalves 0.001～0.002 Fish 0.001 Birds 0.001～0.002	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 0/20 Fish 5/60 Birds 5/10	Bivalves 0/4 Fish 1/12 Birds 1/2	Bivalves － Fish 0.001～0.006 Birds 0.002～0.005	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 0/20 Fish 5/60 Birds 5/10	Bivalves 0/4 Fish 1/12 Birds 1/2	Bivalves － Fish 0.002～0.004 Birds 0.003～0.005	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986									Bivalves 0/20 Fish 8/60 Birds 6/10	Bivalves 0/4 Fish 3/12 Birds 2/2	Bivalves － Fish 0.001 Birds 0.002～0.013	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)	63/73	12/12	1.2～78	(1.0)					
			1988									Bivalves 0/20 Fish 0/65 Birds 1/10	Bivalves 0/4 Fish 0/13 Birds 1/2	Bivalves － Fish － Birds 0.001	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990									Bivalves 5/25 Fish 10/65 Birds 0/10	Bivalves 1/5 Fish 2/13 Birds 0/2	Bivalves 0.005～0.009 Fish 0.001～0.003 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992									Bivalves 5/30 Fish 6/70 Birds 0/10	Bivalves 1/6 Fish 2/14 Birds 0/2	Bivalves 0.004～0.008 Fish 0.001～0.004 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1994									Bivalves 5/30 Fish 0/70 Birds 0/5	Bivalves 1/6 Fish 0/14 Birds 0/1	Bivalves 0.004～0.006 Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996									Bivalves 5/30 Fish 5/70 Birds 0/10	Bivalves 1/6 Fish 2/14 Birds 0/2	Bivalves 0.003～0.004 Fish 0.001～0.002 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999									Bivalves 0/30 Fish 5/70 Birds 0/10	Bivalves 0/6 Fish 1/14 Birds 0/2	Bivalves － Fish 0.001～0.003 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)	39/39	13/13	0.12～40	(0.009)					
			2007													W.S. 78/78 C.S. 75/75	W.S. 26/26 C.S. 25/25	W.S. 0.20～15 C.S. 0.18～14	(W.S. 0.010) (C.S. 0.010)					
1001	1,3,5-Trichlorobenzene	108-70-3	1975	0/95	0/19	－	(0.02～0.2)	0/95	0/19	－	(0.001～0.1)	Fish 0/75	Fish 0/15	Fish －	(Fish 0.003～0.1)					Precipitation 0/24	0/12	－μg/L	(0.02～0.2)	1001
			1979	1/111	1/37	0.02	(0.01～0.4)	18/111	10/37	0.0006～0.0247	(0.0001～0.1)	Fish 1/93	Fish 1/27	Fish 0.012	(Fish 0.0001～0.1)									
			1980									Bivalves 0/15 Fish 0/50	Bivalves 0/3 Fish 0/10	Bivalves － Fish －	(Bivalves 0.001) (Fish 0.001)									
			1981									Bivalves 0/20 Fish 0/46 Birds 0/7	Bivalves 0/4 Fish 0/9 Birds 0/1	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001～0.002) (Birds 0.001)									
			1982									Bivalves 0/20 Fish 0/50 Birds 0/9	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001～0.002) (Birds 0.001)									
			1983									Bivalves 0/20 Fish 0/50 Birds 0/10	Bivalves 0/4 Fish 0/10 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1984									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1985									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1986									Bivalves 0/20 Fish 0/60 Birds 0/10	Bivalves 0/4 Fish 0/12 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)	7/73	3/12	1.0～8.6	(1.0)					
			1988									Bivalves 0/20 Fish 0/65 Birds 0/10	Bivalves 0/4 Fish 0/13 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1990									Bivalves 0/25 Fish 4/65 Birds 0/10	Bivalves 0/5 Fish 1/13 Birds 0/2	Bivalves － Fish 0.001～0.003 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1992									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1994									Bivalves 0/30 Fish 1/70 Birds 0/5	Bivalves 0/6 Fish 1/14 Birds 0/1	Bivalves － Fish 0.002 Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1996									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)									
			1999									Bivalves 0/30 Fish 0/70 Birds 0/10	Bivalves 0/6 Fish 0/14 Birds 0/2	Bivalves － Fish － Birds －	(Bivalves 0.001) (Fish 0.001) (Birds 0.001)	38/39	13/13	0.036～1.4	(0.011)					
			2007													W.S. 78/78 C.S. 75/75	W.S. 26/26 C.S. 25/25	W.S. 0.011～1.3 C.S. 0.010～0.23	(W.S. 0.0063) (C.S. 0.0063)					
	1,1,1-Trichloro-2,2-bis(4-chlorophenyl) ethane	See *p*,*p*′-DDT																						
1002	2,2,2-Trichloro-1,1-bis(4-chlorophenyl)ethanol (synonym: Kelthane or Dicofol)	115-32-2	1978	0/24	0/8	－	(0.02～0.2)	0/24	0/8	－	(0.003～0.011)													1002
			2004					4/15	2/5	0.0017～0.0064	(0.0012)													
			2006									Bivalves 22/31 Fish 5/80 Birds 0/10	Bivalves 5/7 Fish 1/16 Birds 0/2	Bivalves 0.000050～0.00024 Fish 0.00021～0.00029 Birds －	(Bivalves 0.000036) (Fish 0.000036) (Birds 0.000036)									
			2008	13/48	13/48	0.000013～0.000076	(0.000010)	30/186	13/63	0.000069～0.00046	(0.000063)	Bivalves 28/31 Fish 55/85 Birds 1/10	Bivalves 7/7 Fish 14/17 Birds 1/2	Bivalves 0.00005～0.00021 Fish 0.000049～0.00027 Birds 0.00030	(Bivalves 0.000048) (Fish 0.000048) (Birds 0.000048)									
			2016													10/37	10/37	0.0002～0.0010	(0.0002)					
			2018									Bivalves 1/3 Fish 9/18 Birds 0/2	Bivalves 1/3 Fish 9/18 Birds 0/2	Bivalves 0.00003 Fish 0.00001～0.00028 Birds －	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)									
			2019	3/48	3/48	0.000012～0.000040	(0.000008)	40/61	40/61	0.000002～0.000084	(0.000002)	Bivalves 1/3 Fish 12/16 Birds 0/1	Bivalves 1/3 Fish 12/16 Birds 0/1	Bivalves 0.00001 Fish 0.00001～0.00012 Birds －	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	5/36	5/36	0.0002～0.0004	(0.0002)					
			2020	1/46	1/46	0.000030	(0.000005)	23/58	23/58	0.000005～0.000077	(0.000005)	Bivalves 1/3 Fish 8/18 Birds 0/1	Bivalves 1/3 Fish 8/18 Birds 0/1	Bivalves 0.00002 Fish 0.00001～0.00033 Birds －	(Bivalves 0.00001) (Fish 0.00001) (Birds 0.00001)	3/37	3/37	0.0002～0.0003	(0.0002)					
	1,1,1-Trichloro-2,2-bis(4-methoxyphenyl)ethane	See Methoxychlor																						
1003	1,1,1-Trichloroethane	71-55-6	1974	0/60	0/12	－	(0.1～2)													Precipitation 0/18	0/7	－ppm	(0.0001～0.002)	1003
			1975	43/395	11/79	0.06～5.4	(0.05～2.1)													Precipitation 0/114	0/56	－μg/L	(0.05～0.4)	
			1979													26/48	10/17	20～710	(2～180)					
			1980													78/135	16/25	10～3,200	(2～200)					
			1983													95/108	12/12	10～3,400	(1～30)					
			2001													48/48	16/16	170～420	(12)					
1004	1,1,2-Trichloroethane	79-00-5	1976	0/60	0/13	－	(4～50)	0/40	0/11	－	(0.3～1.0)	Fish 0/10	Fish 0/2	Fish －	(Fish 0.4)									1004
			2001													4/48	3/16	20～27	(20)					
	2,2,2-Trichloro-1,1-ethanediol	See 2,2,2-Trichloroethane-1,1-diol																						
1005	2,2,2-Trichloroethane-1,1-diol	302-17-0	1986	0/27	0/9	－	(1)	0/21	0/7	－	(0.006)													1005
1006	Trichloroethene	79-01-6	1974	1/60	1/12	5	(0.1～5)													Precipitation 0/18	0/7	－ppm	(0.0002～0.005)	1006
			1975	75/395	15/79	0.29～12	(0.2～1)													Precipitation 2/114	2/56	0.2～1μg/L	(0.1～1)	
			1979													21/48	8/17	16～5,900	(5～600)					
			1980													64/135	16/25	7～2,000	(5～1,000)					
			1983													88/108	12/12	10～1,500	(10～130)					
			1988	6/51	2/17	0.097～0.11	(0.05～2)	1/51	1/17	0.011	(0.0005～0.05)					W.S. 13/15 C.S. 13/15	W.S. 6/7 C.S. 6/7	W.S. 46～1,900 C.S. 51～8,800	(W.S. 10～2,500) (C.S. 10～2,500)					
			1989													24/38	9/13	27～6,900	(5～500)					
			1990													109/128	19/20	56～8,600	(50)	Outdoor air 20/22 Indoor air 61/72 Food 0/72	Outdoor air 8/8 Indoor air 8/8 Food 0/8	Outdoor air 68～8,600 ng/m^3 Indoor air 68～12,000 ng/m^3 Food －ng/g-wet	(Outdoor air 60) (Indoor air 60) (Food 0.8)	
			1991													109/126	20/20	67～6,600	(62)	Outdoor air 23/23 Indoor air 79/80 Food 3/81	Outdoor air 8/8 Indoor air 9/9 Food 2/9	Outdoor air 98～4,400 ng/m^3 Indoor air 40～17,000 ng/m^3 Food 0.5～1.9ng/g-wet	(Outdoor air 40) (Indoor air 40) (Food 0.5)	
			1992													122/139	20/21	54～7,100	(50)	Outdoor air 25/25 Indoor air 76/78 Food 12/81	Outdoor air 9/9 Indoor air 9/9 Food 4/9	Outdoor air 110～7,100 ng/m^3 Indoor air 60～9,200 ng/m^3 Food 0.5～0.8ng/g-wet	(Outdoor air 50) (Indoor air 50) (Food 0.5)	
			1993													99/111	26/27	57～5,600	(50)	Outdoor air 26/26 Indoor air 77/77 Food 6/81	Outdoor air 9/9 Indoor air 9/9 Food 3/9	Outdoor air 22～2,900 ng/m^3 Indoor air 36～10,000 ng/m^3 Food 0.5～1.6ng/g-wet	(Outdoor air 20) (Indoor air 20) (Food 0.5)	

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
			1994													88/110	25/28	50～8,300	(50)	Outdoor air 24/24 Indoor air 71/72 Food 3/81	Outdoor air 8/8 Indoor air 9/9 Food 1/9	Outdoor air 21～5,600 ng/m^3 Indoor air 46～22,000 ng/m^3 Food 1～1.3ng/g-wet	(Outdoor air 20) (Indoor air 40) (Food 0.5)	
			1995													91/108	25/28	54～7,400	(50)	Outdoor air 22/24 Indoor air 73/76 Food 0/81	Outdoor air 8/8 Indoor air 9/9 Food 0/9	Outdoor air 96～5,900 ng/m^3 Indoor air 20～6,200 ng/m^3 Food －ng/g-wet	(Outdoor air 50) (Indoor air 20) (Food 0.5)	
			1996													104/122	28/31	56～9,150	(50)	Outdoor air 31/32 Indoor air 64/81 Food 2/81	Outdoor air 8/8 Indoor air 8/9 Food 1/9	Outdoor air 62～7,100 ng/m^3 Indoor air 190～12,000 ng/m^3 Food 0.5～0.6ng/g-wet	(Outdoor air 50) (Indoor air 170) (Food 0.5)	
			1997																	Indoor air 75/76 Food 1/81	Indoor air 9/9 Food 1/9	Indoor air 33～22,000 ng/m^3 Food 0.5ng/g-wet	(Indoor air 30) (Food 0.5)	
			1998																	Indoor air 75/79 Food 7/81	Indoor air 9/9 Food 4/9	Indoor air 57～10,000 ng/m^3 Food 0.5～0.9ng/g-wet	(Indoor air 30) (Food 0.5)	
			1999													37/38	10/10	55～5,500	(30)	Outdoor air 31/32 Indoor air 71/71 Food 8/72	Outdoor air 8/8 Indoor air 8/8 Food 1/8	Outdoor air 55～5,500 ng/m^3 Indoor air 49～8,500 ng/m^3 Food 0.5～1.9ng/g-wet	(Outdoor air 30) (Indoor air 30) (Food 0.5)	
			2000													38/41	10/11	48～3,800	(20)	Outdoor air 27/30 Indoor air 68/72	Outdoor air 7/8 Indoor air 8/8	Outdoor air 55～3,800 ng/m^3 Indoor air 39～11,000 ng/m^3	(Outdoor air 20) (Indoor air 30)	
			2001													38/40	10/10	20～3,800	(20)	Outdoor air 27/28 Indoor air 60/63	Outdoor air 7/7 Indoor air 7/7	Outdoor air 25～3,800 ng/m^3 Indoor air 22～6,900 ng/m^3	(Outdoor air 20) (Indoor air 20)	
1007	Trichlorofluoromethane	75-69-4	1976													90/115	23/27	2～450	(2.1)					1007
			1977													71/97	28/44	20～900	(10～1,000)					
1008	1,1,1-Trichloro-2-methyl-2-propanol	57-15-8	1980	0/33	0/11	－	(0.02～20)	0/33	0/11	－	(0.00049～0.1)													1008
			1988	0/72	0/24	－	(0.5)	0/72	0/24	－	(0.06)					1/72	1/12	57	(25)					
1009	1,3,5-Trichloro-2-nitrobenzene	18708-70-8	1984	0/24	0/8	－	(0.002～0.03)	0/24	0/8	－	(0.00019～0.003)													1009
	2,4,6-Trichloro-2-nitrobenzene	See 1,3,5-Trichloro-2-nitrobenzene																						
1010	Trichloronitromethane (synonym: Chloropicrin)	76-06-2	1979	0/24	0/8	－	(0.005～0.1)	0/24	0/8	－	(0.00025～0.005)													1010
			1994	0/45	0/15	－	(0.2)									0/51	0/17	－	(5,000)					
			2003													0/24	0/8	－	(220)					
			2005	0/9	0/1	－	(0.030)																	
			2006									Bivalves & Fish 0/30	Bivalves & Fish 0/10	Bivalves & Fish －	(Bivalves & Fish 0.0003)									
1011	2,4,5-Trichlorophenol	95-95-4	1978	0/21	0/7	－	(0.02～0.08)	0/21	0/7	－	(0.001～0.008)													1011
			1996	0/33	0/11	－	(0.2)	0/30	0/10	－	(0.0063)													
			2008	0/108	0/36	－	(0.007)																	
1012	2,4,6-Trichlorophenol	88-06-2	1978	0/21	0/7	－	(0.008～0.001)	1/21	1/7	0.0008	(0.0006～0.001)													1012
			1996	0/33	0/11	－	(0.15)	1/30	1/11	0.012	(0.009)													
			2012	11/16	11/16	0.00098～0.027	(0.00094)					Bivalves & Fish 22/36	Bivalves & Fish 10/12	Bivalves & Fish 0.000007～0.00026	(Bivalves & Fish 0.000006)									
			2013													0/42	0/14	－	(13)					
1013	2,4,5-Trichlorophenoxyacetic acid	93-76-5	1983	0/45	0/15	－	(0.01～3)	0/45	0/15	－	(0.0002～0.13)													1013
			2005	0/126	0/42	－	(0.00038)																	
	2,4,6-Trichlorophenyl-4'-aminophenyl ether	See Chlornitrofen-amino																						
	2,4,6-Trichlorophenyl-4'-nitrophenyl ether	See Chlornitrofen																						
1014	1,2,3-Trichloropropane	96-18-4	1976	0/60	0/13	－	(10～20)	0/40	0/11	－	(0.2～2)	Fish 0/10	Fish 0/2	Fish －	(Fish 2.4)									1014
			2009													60/60	20/20	1.5～150	(0.076)					
	1,1,2-Trichloro-1,2,2-trifluoroethane	See Trichlorotrifluoroethane																						
1015	Trichlorotrifluoroethane	76-13-1	1981	0/27	0/9	－	(0.002～20)	0/27	0/9	－	(0.00002～0.02)													1015
			1983													100/100	12/12	3～4,540	(0.3～5)					
1016	4,4',4"-Trichlorotrityl alcohol	3010-80-8	2000	0/39	0/13	－	(0.0052)	0/33	0/11	－	(3.2)	Fish 0/39	Fish 0/13	Fish －	(Fish 0.97)									1016
	Triclosan	See 5-Chloro-2-(2,4-dichlorophenoxy)phenol																						
	Tricresyl phosphate	See Tritolyl phosphate																						
	Tricyclohexyltin compounds	See Organotin compounds (Tricyclohexyltin compounds)																						
	Tridecyl alcohol	See 1-Tridecanol																						
1017	Triethanolamine	102-71-6	1978	0/12	0/4	－	(0.3～1.3)																	1017
			2016	F.W. 13/13 S.W. 7/7	F.W. 13/13 S.W. 7/7	F.W. 0.031～2.7 S.W. 0.026～0.49	(F.W. 0.0041) (S.W. 0.026)																	
1018	Triethylamine	121-44-8	1981	0/27	0/9	－	(0.7～2)	0/27	0/9	－	(0.005～0.01)													1018
			1991	3/27	1/9	0.39～0.56	(0.2)	15/33	5/11	0.012～0.064	(0.012)													
			2013													6/48	3/16	19～210	(11)					

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
1019	Triethylbiphenyl	42343-17-9	1976	0/68	0/15	—	(3.5～50)	0/50	0/15	—	(0.5～5.0)	Fish 0/20	Fish 0/9	Fish —	(Fish 0.70～2.0)									1019
	Triethylene glycol dimethyl ether	See 2,5,8,11-Tetraoxadodecane																						
1020	Triethylene glycol ethyl ether	112-50-5	1988	0/75	0/25	—	(2.2)	0/75	0/25	—	(0.24)													1020
	Triethylene glycol methyl ether	See 2-(2-(2-methoxyethoxy)ethoxy)-ethanol																						
1021	Triethylenetetramine	112-24-3	2003	0/39	0/13	—	(8)																	1021
			2020	0/26	0/26	—	(0.012)																	
1022	Triethyl phosphate	78-40-0	1982	0/42	0/14	—	(0.005～0.1)	0/42	0/14	—	(0.00025～0.005)													1022
1023	*alpha* ,*alpha* ,*alpha* -Trifluoro-2,6-dinitro-*N* ,*N* -dipropyl-*p* -toluidine (synonym: Trifluralin)	1582-09-8	1994	0/30	0/10	—	(0.02)	0/30	0/10	—	(0.0025)	Fish 0/30	Fish 0/10	Fish —	(Fish 0.001)									1023
			2005	8/54	2/6	0.0031～0.0042	(0.0028)					Fish 1/9	Fish 1/3	Fish 0.0025	(Fish 0.00058)									
1024	4,4'-[2,2,2-Trifluoro-1-(trifluoromethyl)ethylidene]bisphenol (synonym: Bisphenol AF)	1478-61-1	2022	5/32	5/32	0.00042～0.010	(0.00038)																	1024
	Trifluralin	See *alpha* ,*alpha* ,*alpha* -Trifluoro-2,6-dinitro-*N* ,*N* -dipropyl-*p* -toluidine																						
	1,3,5-Triglycidyl isocyanurate	See 1,3,5-Tris(2,3-epoxypropyl)-1,3,5-triazine-2,4,6(1*H* ,3*H* ,5*H*)-trione																						
	Trimellitic acid	See 1,2,4-Benzenetricarboxylic acid																						
1025	Trimethoprim	738-70-5	2014	6/16	6/16	0.0095～0.061	(0.005)																	1025
1026	Trimethylamine	75-50-3	1986	0/33	0/11	—	(3)	4/27	3/9	0.13～0.63	(0.08)													1026
			1991													1/48	1/16	150	(150)					
			2012	6/22	6/22	0.38～17	(0.37)									8/60	6/20	7.3～16	(7.0)					
1027	1,2,3-Trimethylbenzene	526-73-8	1976	0/20	0/5	—	(0.1)	0/20	0/5	—	(0.01)													1027
			2015	2/16	2/16	0.0091～0.011	(0.0048)																	
1028	1,2,4-Trimethylbenzene	95-63-6	1976	0/20	0/5	—	(0.1)	0/20	0/5	—	(0.01)													1028
			1998													39/42	13/14	370～10,000	(370)					
			2009	1/90	1/30	0.032	(0.031)																	
			2016					51/57	18/19	0.00011～0.0017	(0.00011)	Bivalves & Fish 0/41	Bivalves & Fish 0/14	—	(Bivalves & Fish 0.0030)									
			2017	1/23	1/23	0.11	(0.033)																	
1029	1,3,5-Trimethylbenzene	108-67-8	1976	0/20	0/5	—	(0.1)	0/20	0/5	—	(0.01)													1029
			1998													38/38	13/13	90～3,200	(40)					
			2009	0/90	0/30	—	(0.044)																	
	Tri(*alpha* -methylbenzyl)phenol	See 2,4,6-Tris(1-phenylethyl)phenol																						
1030	(*E*)-4-(2,6,6-Trimethylcyclohex-1-en-1-yl)-but-3-en-2-one (synonym: Ionone)	79-77-6	2016	2/20	2/20	0.012～0.049	(0.0025)																	1030
	1,5,5-Trimethyl-1-cyclohexen-3-one	See 3,5,5-Trimethyl-2-cyclohexen-1-one																						
1031	3,5,5-Trimethyl-2-cyclohexen-1-one (synonym: Isophorone)	78-59-1	1981	0/36	0/12	—	(0.02～10)	18/36	6/12	0.0006～0.0066	(0.0003～0.2)													1031
			1995	6/165	3/55	0.027～0.048	(0.0235)	97/154	36/52	0.00014～0.81	(0.00014)	Fish 32/141	Fish 12/45	Fish 0.00023～0.017	(Fish 0.00021)									
			2008													0/62	0/21	—	(31)					
			2015	10/21	10/21	0.008～0.053	(0.0078)																	
	2,2,4-Trimethyl-1,2-dihydroquinoline	See 1,2-Dihydro-2,2,4-trimethylquinoline																						
1032	*N* ,*N* ,*N* -Trimethyldodecan-1-aminium salts (as Bromide)	1119-94-4	2024	12/30	12/30	0.0014～0.0064	(0.0011)																	1032
1033	Trimethylenediamine	109-76-2	1987	0/87	0/29	—	(0.4)	0/87	0/29	—	(0.19)													1033
1034	3,5,5-Trimethyl-1-hexanol	3452-97-9	2011													0/24	0/8	—	(730)					1034
			2022	0/28	0/28	—	(0.42)																	
	2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	See 2-Methylpropenoic acid 2,2-dimethyl-1-(1-methylethyl)-1,3-propanediyl ester																						
1035	2,4,4-trimethyl-1-pentene	107-39-1	1978	0/12	0/4	—	(0.16～0.3)	0/12	0/4	—	(0.00031～0.00078)													1035
1036	Trimethyl phosphate	512-56-1	1982	0/42	0/14	—	(0.02～0.1)	0/42	0/14	—	(0.0005～0.005)													1036
			1984	0/24	0/8	—	(0.04～1)	0/24	0/8	—	(0.003～0.05)													
1037	1,3,7-Trimethyl-1*H* -purine-2,6(3*H* ,7*H*)-dione	58-08-2	2018	18/18	18/18	0.0074～2.4	(0.0011)																	1037
1038	2,4,6-Trinitrotoluene	118-96-7	2006	0/15	0/5	—	(0.0027)																	1038
1039	Trioctylamine	1116-76-3	1981	0/27	0/9	—	(1)	0/27	0/9	—	(0.005～0.01)													1039
			2021	0/19	0/19	—	(0.00026)																	
	Trioctyl phosphate	See Tris(2-ethylhexyl) phosphate																						
	Trioctyltin compounds	See Organotin compounds (Trioctyltin compounds)																						
1040	Triphenylboron (III) and its compounds	960-71-4	2017	14/25	14/25	0.000037～0.00037	(0.000023)																	1040
1041	Triphenylmethane	519-73-3	1983	0/33	0/11	—	(0.2～0.4)	0/33	0/11	—	(0.008～0.041)													1041
			2004					1/18	1/6	0.0009	(0.0004)													
1042	Trimethyl(octadecyl)ammonium salts (as chloride)	112-03-8 etc.	2021	31/42	31/42	0.0034～0.17	(0.0033)																	1042
			2022					81/81	27/27	0.0026～2.5	(0.00014)													
1043	Triphenyl phosphate	115-86-6	1975	0/100	0/20	—	(0.02～0.25)	0/100	0/20	—	(0.002～0.05)	Fish 0/100	Fish 0/19	Fish —	(Fish 0.005～0.05)									1043
			2007													15/15	5/5	0.054～0.33	(0.041)					
			2017	3/18	3/18	0.018～0.024	(0.011)																	
	Triphenyltin compounds	See Organotin compounds (Triphenyltin compounds)																						
	Tripropyltin compounds	See Organotin compounds (Tripropyltin compounds)																						
1044	Tris(2-bromoethyl) phosphate	27568-90-7	1984	0/24	0/8	—	(0.13～1)	0/24	0/8	—	(0.027～0.07)													1044
	Tris(2-butoxyethyl) phosphate	See Tris(butoxyethyl) phosphate																						
1045	Tris(butoxyethyl) phosphate	78-51-3	1975	0/100	0/20	—	(0.02～0.50)	7/80	2/16	0.22～0.54	(0.002～0.100)	Fish 0/74	Fish 0/15	Fish —	(Fish 0.004～0.10)									1045
			1978	0/108	0/36	—	(0.005～1.5)	0/108	0/36	—	(0.0005～0.15)	Fish 0/93	Fish 0/29	Fish —	(Fish 0.0005～0.15)									
			1993	12/165	5/55	0.51～2.8	(0.5)	0/168	0/56	—	(0.098)	Fish 1/156	Fish 1/51	Fish 0.1	(Fish 0.1)	2/48	2/16	50～100	(50)					
			2024	32/32	32/32	0.00012～0.45	(0.00011)																	
1046	Tris(2-chloroethyl) phosphate	115-96-8	1975	8/40	2/8	0.10～0.34	(0.013～0.10)	1/20	1/4	0.070	(0.025)	Fish 0/20	Fish 0/3	Fish —	(Fish 0.025)									1046
			1978	3/108	1/36	0.09	(0.01～1)	0/108	0/36	—	(0.001～0.05)	Fish 9/93	Fish 3/29	Fish 0.005～0.14	(Fish 0.001～0.05)									
			1993	36/70	15/24	0.05～1.2	(0.05)	22/72	10/25	0.005～0.085	(0.005)	Fish 9/75	Fish 5/25	Fish 0.012～0.29	(Fish 0.012)	21/39	8/13	1～7.4	(1)					
			1998													24/37	12/15	0.29～1.4	(0.24)					
1047	Tris(2-chloroethyl) phosphite	140-08-9	1984	0/24	0/8	—	(3～40)	0/24	0/8	—	(0.07～8.8)													1047
	Tris(2-chloroisopropyl) phosphate	See Tris(2-chloro-1-methylethyl) phosphate																						
1048	Tris(2-chloro-1-methylethyl) phosphate	13674-84-5	2024	31/32	31/32	0.004～0.48	(0.0015)																	1048
1049	Tris-4-chlorophenylmethane	27575-78-6	2000	0/39	0/13	—	(0.0033)	0/39	0/13	—	(1.7)	Fish 0/39	Fish 0/13	Fish —	(Fish 0.44)									1049
	Tris-4-chlorophenylmethanol	See 4,4',4"-Trichlorotrityl alcohol																						

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
1050	Tris(2-chloropropyl) phosphate	6145-73-9	1984	0/24	0/8	—	(0.05～1)	0/24	0/8	—	(0.011～0.05)													1050
1051	Tris(2,3-dibromopropan-1-yl) phosphate	126-72-7	1975	0/20	0/4	—	(10)	0/20	0/4	—	(0.4)	Fish 0/20	Fish 0/4	Fish —	(Fish 1)									1051
			2016													0/24	0/8	—	(0.015)					
	Tris(2,3-dibromopropyl) phosphate	See Tris(2,3-dibromopropan-1-yl) phosphate																						
	Tris(Dibromopropyl) phosphate	See Tris(2,3-dibromopropyl) phosphate																						
1052	Tris(1,3-dichloro-2-propyl) phosphate	13674-87-8	1975	0/100	0/20	—	(0.02～0.25)	0/100	0/20	—	(0.002～0.050)	Fish 7/94	Fish 2/19	Fish 0.015～0.025	(Fish 0.005～0.050)									1052
			1978	0/108	0/36	—	(0.001～0.5)	0/108	0/36	—	(0.0001～0.06)	Fish 0/93	Fish 0/29	Fish —	(Fish 0.0001～0.03)									
			1984	0/24	0/8	—	(0.25～1)	0/24	0/8	—	(0.03～0.06)													
			1999	0/42	0/14	—	(0.10)	1/39	1/13	0.0097	(0.008)													
			2024	31/32	31/32	0.00058～0.092	(0.00029)									4/48	4/16	1.1～3.3	(1.1)					
	1,3,5-Tris(1,1-dimethylethyl) benzene	See 1,3,5-Tri-tert-butylbenzene																						
1053	Tris(dimethylphenyl) phosphate	25155-23-1	1981	0/63	0/21	—	(0.2)	13/63	5/21	0.07～3.7	(0.05)													1053
			1999	0/42	0/14	—	(0.46)	0/39	0/13	—	(0.035)													
1054	1,3,5-Tris(2,3-epoxypropyl)-1,3,5-triazine-2,4,6(1*H*,3*H*,5*H*)-trione	2451-62-9	2020													1/60	1/20	0.11	(0.039)					1054
			2022	2/23	2/23	0.014～0.027	(0.014)																	
1055	Tris(2-ethylhexyl) phosphate	78-42-2	1975	0/100	0/20	—	(0.04～0.50)	3/100	2/20	0.02～0.100	(0.005～0.10)	Fish 0/94	Fish 0/19	Fish —	(Fish 0.01～0.10)									1055
			1981	0/63	0/21	—	(0.01)	43/63	15/21	0.002～0.07	(0.001～0.005)													
			1999	0/42	0/14	—	(0.19)	12/39	4/13	0.0051～0.034	(0.005)													
	1,3,5-Trisglycidyl-isocyanuric acid	See 1,3,5-Tris(2,3-epoxypropyl)-1,3,5-triazine-2,4,6(1*H*,3*H*,5*H*)-trione																						
	1,3,5-Tris(2'-hydroxyethyl) isocyanuric acid	See 1,3,5-Tris(2-hydroxyethyl)-1,3,5-triazine-2,4,6(1*H*,3*H*,5*H*)-trione																						
1056	1,3,5-Tris(2-hydroxyethyl)-1,3,5-triazine-2,4,6(1*H*,3*H*,5*H*)-trione	839-90-7	1979	0/18	0/6	—	(5～10)	0/18	0/6	—	(0.002～0.07)													1056
	Tris(2-hydroxypropyl)amine	See 1,1',1"-Nitrilotri-2-propanol																						
1057	Tris(isopropylphenyl) phosphate	26967-76-0	1978	0/24	0/8	—	(0.05～2)	3/24	1/8	0.1	(0.01～0.1)													1057
1058	2,4,6-Tris(1-phenylethyl)phenol	18254-13-2	1981	0/27	0/9	—	(0.04～0.06)	12/27	4/9	0.019～0.42	(0.006～0.03)													1058
1059	Tritolyl phosphate (synonym: TCP)	1330-78-5	1975	0/100	0/20	—	(0.05～1.5)	1/100	1/20	0.15	(0.01～0.25)	Fish 0/94	Fish 0/19	Fish —	(Fish 0.02～0.25)									1059
			1978	0/108	0/36	—	(0.005～2.5)	2/108	1/36	1.06～2.16	(0.00025～0.3)	Fish 0/93	Fish 0/29	Fish —	(Fish 0.00025～0.15)									
			1993	0/72	0/24	—	(0.05)	50/72	19/24	0.003～0.24	(0.003)	Fish 2/75	Fish 1/25	Fish 0.063～0.082	(Fish 0.022)	7/42	4/14	3～17	(3)					
			1998													8/46	5/16	1.2～2.6	(1)					
	Trixylenyl phosphate	See Tris(dimethylphenyl) phosphate																						
	Tsumacide	See *m*-Tolyl methylcarbamate																						
	TTBP	See 2,4,6-Tri-*tert*-butylphenol																						
1060	Tylosin	1401-69-0	2014	0/17	0/17	—	(0.0056)																	1060
1061	UV-328	25973-55-1	2023	36/47	36/47	0.00002～0.00054	(0.00002)	60/60	60/60	0.000012～0.071	(0.000008)													1061
			2024	28/47	28/47	0.00002～0.00012	(0.00002)	60/60	60/60	0.000014～0.050	(0.000008)	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 3/3 Fish 16/16 Birds 2/2	Bivalves 0.000031～0.00024 Fish 0.000017～0.00090 Birds 0.000036～0.00023	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)									
1062	Valproic Acid	99-66-1	2019	9/27	9/27	0.0048～0.024	(0.0031)																	1062
	Vamidothion	See *O*,*O*-Dimethyl *S*-[2-[1-(*N*-methylcarbamoyl)ethylthio]ethyl] thiophosphate																						
1063	Vanadium and its compounds (as Vanadium)	7440-62-2 etc.	1974	1/60	1/12	0.02	(0.01～0.1)	60/60	12/12	6.0～275		Bivalves 0/20 Fish 0/20	Bivalves 0/4 Fish 0/4	Bivalves — Fish —	(Bivalves 0.1) (Fish 2.5)									1063
			2007	15/15	5/5	0.63～4.6	(0.0024)																	
1064	Venlafaxine and its metabolite																							1064
1064-1	Venlafaxine	93413-69-5	2020	19/23	19/23	0.00031～0.053	(0.00024)																	1064-1
1064-2	*O*-Desmethylvenlafaxine	93413-62-8	2020	6/21	6/21	0.0094～0.19	(0.0060)																	1064-2
1065	Vinyl acetate	108-05-4	1995	0/33	0/11	—	(5)									4/18	2/6	55～5,000	(50)					1065
			2000													8/42	5/14	120～5,500	(120)					
			2012	1/23	1/23	2.1～2.1	(0.035)																	
1066	Vinyl bromide	593-60-2	1981	0/15	0/5	—	(1)	0/15	0/5	—	(0.005～0.006)													1066
	Vinyl chloride	See Chloroethylene																						
1067	4-Vinyl-1-cyclohexene	100-40-3	2011													0/27	0/9	—	(29)					1067
			2017	0/18	0/18	—	(0.047)																	
	Vinylidene chloride	See 1,1-Dichloroethene																						
1068	2-Vinylpyridine	100-69-6	1991													7/50	4/17	17～30	(16)					1068
			2004													3/18	1/6	6.2～18	(0.4)					
			2017	0/20	0/20	—	(0.0061)																	
	XMC	See 3,5-Dimethylphenyl *N*-methylcarbamate																						
1069	Xylenes (Total of *m*-Xylene and *p*-Xylene)	108-38-3 106-42-3	1998													42/42	14/14	550～35,000	(100)					1069
1069-1	*o*-Xylene	95-47-6	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.004)													1069-1
			1985	1/21	1/7	0.021	(0.02)	1/21	1/7	0.0011	(0.0006)													
			1986	12/137	6/46	0.04～1.2	(0.03)	24/111	12/37	0.0005～0.0070	(0.0005)	Fish 41/137	Fish 16/42	Fish 0.0008～0.005	(Fish 0.0008)									
			1998													42/42	14/14	330～9,500	(60)					
			2016	1/32	1/32	0.020	(0.0097)					Bivalves & Fish 1/35	Bivalves & Fish 1/12	0.0039	(Bivalves & Fish 0.0021)									
1069-2	*m*-Xylene	108-38-3	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.004)													1069-2
			1985	1/21	1/7	0.042	(0.02)	1/21	1/7	0.002	(0.001)													
			1986	15/126	8/43	0.04～1.2	(0.03)	33/118	16/40	0.0005～0.015	(0.0005)	Fish 45/124	Fish 18/38	Fish 0.00086～0.0092	(Fish 0.0008)									
			2016	0/32	0/32	—	(0.025)					Bivalves & Fish 3/35	Bivalves & Fish 1/12	0.0034	(Bivalves & Fish 0.0032)									
1069-3	*p*-Xylene	106-42-3	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.004)													1069-3
			1985	1/21	1/7	0.037	(0.02)	0/21	0/7	—	(0.002)													
			1986	4/122	4/42	0.06～0.48	(0.03)	12/105	7/35	0.0005～0.0038	(0.0005)	Fish 28/127	Fish 14/39	Fish 0.0008～0.003	(Fish 0.0008)									
			2016	0/32	0/32	—	(0.013)					Bivalves & Fish 1/35	Bivalves & Fish 1/12	0.0052	(Bivalves & Fish 0.0035)									
1070	2,4-Xylenol	105-67-9	1982	0/33	0/11	—	(0.04～0.5)	0/33	0/11	—	(0.0002～0.02)													1070
			2007	11/27	5/9	0.0016～0.0043	(0.0014)																	
			2010					27/27	9/9	0.00009～0.0025	(0.00009)													
			2023	34/36	34/36	0.0013～0.027	(0.00088)	73/78	26/26	0.000027～0.0076	(0.000022)					34/34	14/14	0.26～350	(0.16)					
1071	2,6-Xylenol	576-26-1	2006	6/18	2/6	0.0009～0.0034	(0.0005)																	1071

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L)				Sediment (μg/g-dry)				Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet)				Air (ng/m^3)				Others				Number
				Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	Detection Frequency		Detection range	Detection limit	
				Sample	Site			Sample	Site			Sample	Site			Sample	Site			Sample	Site			
1072	3,5-Xylenol	108-68-9	1982	0/33	0/11	—	(0.04～0.5)	6/33	3/11	0.0005～0.0022	(0.0002～0.02)													1072
	2,3-Xylidine	See 2,3-Dimethylaniline																						
1073	2,4-Xylidine	95-68-1	1977	0/6	0/2	—	(1～5)	0/6	0/2	—	(0.25～1)													1073
			2014	0/17	0/17	—	(0.014)	0/39	0/13	—	(0.0033)													
1074	2,5-Xylidine	95-78-3	1976	0/68	0/20	—	(0.2～0.5)	2/68	1/20	0.006 ～0.027	(0.001～0.004)													1074
	3,4-Xylidine	See 3,4-Dimethylaniline																						
	3,5-Xylidine	See 3,5-Dimethylaniline																						
	3,5-Xylyl methylcarbamate	See 3,5-Dimethylphenyl *N*-methylcarbamate																						
1075	Zinc and its compounds (as Zinc)	7440-66-6 etc.	1978									Bivalves 10/10 Fish 30/30 Birds 6/6	Bivalves 2/2 Fish 6/6 Birds 1/1	Bivalves 20.4～30.4 Fish 2.87～7.37 Birds 8.54～9.38											1075
			1979									Bivalves 15/15 Fish 40/40 Birds 6/6	Bivalves 3/3 Fish 8/8 Birds 1/1	Bivalves 15.7～43.0 Fish 3.24～8.88 Birds 8.54～9.24	(Bivalves 0.05) (Fish 0.05) (Birds 0.05)									
			1980									Birds 8/8	Birds 1/1	Birds 7.29～9.59	(Birds 0.05)									
1076	Zinc pyrithione	13463-41-7	2004	0/15	0/5	—	(0.02)																	1076
	Zineb	See *N*,*N*′- Ethylenebis(dithiocarbamamic acid) and its salts																						
	Ziram	See Zinc bis(*N*,*N*′-dimethyldithiocarbamate)																						

(Note1) " W.S." and " C.S." at results of Air means " Warm season" and " Cold season" each.
(Note2) " F.S." and " S.W." at results of Surface water means " Fresh water" and " Sea water" each.
(Note3) " * " indicates the sum value of the Detection limits of each congener or included substances.
(Note4) **: About Hydrogenated terphenyls, there were the seven peaks in the chromatogram of the standard material (industrial products). HT242a - HT242d were substances measured using one of the four peaks where molecular weight was 242 each, and HT236a - HT236c were substances measured using one of the other three of the peaks where molecular weight was 246 each.
(Note5) ***: About Diethylbiphenyls, there were the four peaks in the chromatogram of the standard material (industrial products). DDa - DDd were substances measured using one of the four peaks each.
(Note6) ****: About Dibenzyltoluenes, there were the seven peaks in the chromatogram of the standard material (industrial products). DTa - DTg were substances measured using one of the seven peaks each.
(Note7) *****: It was found that there were some problems in collection of HCHs because of some parts of the air sampler that was used between FY2003 and FY2008 were contaminated by HCHs and affected monitored concentration. Therefore all samples in the air were recognized as missing in calculation of data for that period.
(Note8) ******: The survey of the Perfluorooctane sulfonic acid (PFOS), Perfluorooctanoic acid (PFOA) and Perfluorohexane sulfonic acid (PFHxS) monitored linear octyl Perfluorooctane sulfonic acid, linear octyl Perfluorooctanoic acid and linear hexyl Perfluorohexane sulfonic acid.
(Note9) *******: The survey of the Poly(oxyethylene) alkyl ethers whose alkyl group has a carbon number other than 12 in FY 2007, the concentration was quantified using industrial products whose composition was estimated. Therefore, the results of Poly(oxyethylene) alkyl ethers whose alkyl group has a carbon number other than 12 are listed as reference values.
(Note10) ********: It was found that *N*,*N*-Dimethyldodecane-1-amine oxide decomposes between sampling and analyzing in surface water and sediment samples. Because of this, all surface water samples in FY 2004 and FY 2015, all sediment samples in FY 2006 and 3 sediment samples in FY 2015 were treated as missing.
(Note11) *********: In the FY2023 air quality survey for polycyclic aromatic hydrocarbons, an analytical method was used t in which 15 substances were sampled and measured simultaneously. The results for Pyrene, Dibenzo[*a*,*e*]pyrene, Dibenzo[*a*,*h*]pyrene, and Dibenzo[*a*,*l*]pyrene are provided as reference values, because the results of additive recovery tests were not determined to be valid.