Table 4-2 Summary of the results in the Environmental Survey and Monitoring of Chemicals (FY 1974 – FY 2019)

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																						
1	Acenaphthene	83-32-9	1983	0/33		–	(0.09～0.4)	13/33		0.008～0.13	(0.008～0.041)													1
			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)									
2	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)													2
			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)									
3	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)									3
4	Acetaldehyde	75-07-0	1977	0/6	0/2	–	(10)	3/6	1/2	2～ 4	(2.5)													4
			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)					
5	Acetone	67-64-1	1995													49/49	17/17	150～31,000	(2)					5
6	Acetonitrile	75-05-8	1977	0/9	0/3	–	(120～200)	0/9	0/3	–	(2～24)													6
			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)					
7	*o* -Acetoxybenzoic acid	50-78-2	2018	0/21	0/21	–	(0.019)																	7
8	6-Acetyl-1,1,2,4,4,7-hexamethyltetralin	21145-77-7	2014	14/16	14/16	0.0021～0.23	(0.00085)																	8
9	Acrolein	107-02-8	1978	0/21	0/7	–	(7～10)	0/15	0/5	–	(0.02～0.1)													9
			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																						
10	Acrylamide	79-06-1	1975	0/95	0/19	–	(1,000)																	10
			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)					
11	Acrylic acid	79-10-7	2007	8/30	3/10	0.10～2.9	(0.010)									10/12	4/4	180	(4.2～110)					11
			2014	17/17	17/17	0.1～3.2	(0.03)																	
12	Acrylonitrile	107-13-1	1977	0/9	0/3	–	(20～50)	0/9	0/3	–	(0.4～0.5)													12
			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)																	
13	Adipic acid	124-04-9	1985	0/27	0/9	–	(2)	6/27	2/9	0.07～0.41	(0.03)													13
			2006	0/18	0/6	–	(3.8)	9/15	5/5	0.008～0.19	(0.006)													
			2007													0/15	0/5	–	(90)					
14	Adiponitrile	111-69-3	1978	0/21	0/7	–	(10)	0/21	0/7	–	(0.1～0.3)													14
	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																						
15	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)									15
	Aldrin	See 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene																						
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)													

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			
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	Alkylbenzyldimethyl ammonium chlorides (synonym: Benzalkonium chloride) (C_{12} C_{14} or C_{16}-alkyl)	8001-54-5 68391-01-5	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)									
18	Allyl alcohol	107-18-6	1995													3/15	1/5	50～60	(50)					18
			2011													11/33	6/11	17～86	(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	1-Allyloxy-2,3-epoxypropane	106-92-3	2004	0/21	0/7	—	(0.23)																	22
23	1-Amino-9,10-anthraquinone	82-45-1	1985	0/27	0/9	—	(0.2)	1/21	1/7	0.022	(0.02)													23
			2016	0/15	0/15	—	(0.0028)	1/45	1/15	0.0071	(0.84)													
	1-Aminoanthraquinone	See 1-Amino-9,10-anthraquinone																						
24	2-Aminoanthraquinone	117-79-3	1985	0/27	0/9	—	(0.6)	0/18	0/6	—	(0.04)													24
25	3-Aminobenzenesulphonic acid	121-47-1	1981	0/6	0/2	—	(60)	0/6	0/2	—	(0.5)													25
	o-Aminobiphenyl	See Biphenyl-2-ylamine																						
26	4-Amino-6-*tert*-butyl-3-methylthio-1,2,4-triazin-5(4*H*)-one (synonym: Metribuzin) and that decomposed compounds																							26
26-1	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)					26-1
26-2	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)													26-2
26-3	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)													26-3
26-4	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)													26-4
	2-Amino-5-chloro-4-methylbenzene sulfonic acid	See 5-Amino-2-chlorotoluene-4-sulphonic acid																						
27	5-Amino-2-chlorotoluene-4-sulphonic acid	88-53-9	1980	0/24	0/8	—	(10～200)	0/24	0/8	—	(0.5～11)													27
28	2-Aminoethanol	141-43-5	1980	0/27	0/9	—	(3～270)	0/27	0/9	—	(0.006～1.4)													28
			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)					
29	*N*-(2-Aminoethyl)-1,2-ethanediamine (synonym: Diethylenetriamine)	111-40-0	2003	0/39	0/13	—	(2)																	29
30	2-Amino-4-(hydroxy(methyl) phosphonoyl)butanoic acid (synonym: Glufosinate)	51276-47-2	2006	0/60	0/10	—	(0.67)																	30
31	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)													31
32	7-Amino-4-hydroxynaphthalene-2-sulphonic acid	87-02-5	1980	0/24	0/8	—	(4)	0/24	0/8	—	(0.04～0.1)													32
33	3'-Amino-4'-methoxyacetanilide	6375-47-9	2006	0/21	0/7	—	(0.002)																	33
	1-Amino-2-methoxy-5-methylbenzene	See 2-Methoxy-5-methylaniline																						
34	1-Amino-2-methylanthraquinone	82-28-0	1986	0/30	0/10	—	(0.2)	0/30	0/10	—	(0.2)													34
35	2-Amino-5-methylbenzenesulfonic acid	88-44-8	1980	0/24	0/8	—	(10～200)	0/24	0/8	—	(0.5～11)													35
	1-Aminonaphthalene-4-sulphonic acid	See 4-Aminonaphthalene-1-sulphonic acid																						
36	2-Amino-1-naphthalene sulphonic acid	81-16-3	1985	0/30	0/10	—	(0.5)	0/30	0/10	—	(0.007)													36
	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																						
37	4-Aminonaphthalene-6-sulphonic acid	84-86-6	1985	0/33	0/11	—	(0.5)	0/33	0/11	—	(0.007)													37
38	6-Aminonaphthalene-1-sulphonic acid	81-05-0	1985	0/33	0/11	—	(0.5)	0/33	0/11	—	(0.007)													38
39	6-Aminonaphthalene-2-sulphonic acid	93-00-5	1985	0/33	0/11	—	(0.5)	0/33	0/11	—	(0.007)													39
40	7-Aminonaphthalene-1-sulphonic acid	86-60-2	1985	0/33	0/11	—	(0.5)	0/33	0/11	—	(0.007)													40
41	7-Aminonaphthalene-2-sulphonic acid	494-44-0	1985	0/33	0/11	—	(0.5)	0/33	0/11	—	(0.007)													41
	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																						

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-Aminophenol	See *m* -Aminophenol																						
	4-Aminophenol	See *p* -Aminophenol																						
42	*o* -Aminophenol	95-55-6	1986	0/27	0/9	—	(0.1)	0/27	0/9	—	(0.02)													42
			2009	24/33	8/11	0.0050～0.022	(0.0023)																	
			2019	24/25	24/25	0.0023～0.077	(0.0023)																	
43	*m* -Aminophenol	591-27-5	1986	1/27	1/9	1.1	(0.7)	0/27	0/9	—	(0.03)													43
			2006	0/21	0/7	—	(0.007)																	
44	*p* -Aminophenol	123-30-8	1986	0/27	0/9	—	(0.8)	0/27	0/9	—	(0.05)													44
			2004	3/6	1/2	0.02～0.05	(0.02)																	
			2008	3/9	1/3	0.010～0.014	(0.009)																	
45	1-Amino-2-propanol	78-96-6	1980	0/27	0/9	—	(3～110)	0/27	0/9	—	(0.006～0.58)													45
46	3-Aminopropan-1-ol	156-87-6	1980	0/27	0/9	—	(2.5～270)	0/27	0/9	—	(0.005～1.4)													46
47	2-Aminopyridine	504-29-0	1983	0/30	0/10	—	(0.1～0.4)	0/30	0/10	—	(0.002～0.05)													47
			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)													
48	3-Aminopyridine	462-08-8	1983	0/30	0/10	—	(0.1～2)	0/30	0/10	—	(0.002～0.098)													48
49	4-Aminopyridine	504-24-5	1983	0/30	0/10	—	(0.1～3)	0/30	0/10	—	(0.005～0.12)													49
	3-Amino-1,2,4-triazole	See 3-Amino-1*H* -1,2,4-triazole																						
50	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)													50
			2005	0/6	0/2	—	(0.012)	0/21	0/7	—	(0.0004)													
	Amitrole	See 3-Amino-1*H* -1,2,4-triazole																						
51	Amoxicillin	26787-78-0	2019	15/24	15/24	0.000076～0.0023	(0.000013)																	51
52	Amylcinnamaldehyde	122-40-7	2010	0/51	0/17	—	(0.010)																	52
53	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)													53
			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)																	
54	Anionic surfactants	Unknown	1974	26/60	7/12	0.016～0.160	(0.001～0.5)																	54
55	*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)													55
			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)					
56	*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)													56
			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)																	
57	*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)													57
			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)																	
58	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)													58
			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)					
59	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)													59
	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)									
	Anthraquinone	See Anthracene-9,10-dione																						
60	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)									60
61	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)									61
			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																						
	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}-*M* -benzimidazole-7-carboxylic acid																						
	Azinphosmethyl	See *O* ,*O* -Dimethyl 4-oxobenzotriazin-3-ylmethyl dithiophosphate																						
62	Azithromycin	83905-01-5	2019	9/25	9/25	0.0025～0.13	(0.0017)																	62
63	2,2'-Azobisisobutyronitrile	78-67-1	1979	0/15	0/5	—	(10)	0/15	0/5	—	(0.1)													63
			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																						
64	Benzaldehyde	100-52-7	1984	0/27	0/9	—	(0.5～4)	8/27	3/9	0.01～0.17	(0.01～0.1)													64
			2012													11/36	6/12	250～570	(230)					
	Benzalkonium chloride	See Alkylbenzyldimethyl ammonium chlorides (C_{12} C_{14} or C_{16}-alkyl)																						
65	Benz[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)					65
			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)									

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			
66	Benzene	71-43-2	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.004)													66
			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)									
67	1,2,4-Benzenetricarboxylic acid (synonym: Trimellitate)	528-44-9	1986	0/30	0/10	—	(1)	0/30	0/10	—	(0.03)													67
68	1,2,4-Benzenetricarboxylic acid tri-*n*-octyl ester		2010	0/45	0/15	—	(0.011)																	68
69	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)													69
	Benzenetricarboxylic acid tris(2-ethylhexyl) ester	See 1,2,4-Benzenetricarboxylic acid tris(2-ethylhexyl) ester																						
70	Benzidine	92-87-5	1977	0/6	0/2	—	(0.015)	0/3	0/1	—	(0.003)													70
71	(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)																	71
	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																						
72	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)					72
			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)					
73	Benzoic acid	65-85-0	1985	3/33	2/11	5～6	(4)	24/33	8/11	0.05～4.58	(0.04)													73
			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																						
74	Benzonitrile	100-47-0	1977	0/6	0/2	—	(1～5)	0/6	0/2	—	(0.1～1)													74
75	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)					75
			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)					
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)																	
77	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)					77
			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)													
78	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)					78
			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)					
79	*p*-Benzoquinone bis(*O*-benzoyloxime)	120-52-5	1980	0/36	0/12	—	(0.1～10)																	79
80	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)													80
81	Benzothiazole-2-thione	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)													81
			1978	0/117	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)									
82	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)									82
83	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)									83
	Benzothiophene	See Benzo[b]thiophene																						
84	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)																	84
			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)									
85	2-(*m*-Benzoylphenyl)propionic acid	22071-15-4	2018	12/17	12/17	0.000097～0.050	(0.000055)																	85
86	Benzyl acetate	140-11-4	2009	0/32	0/11	—	(0.016)																	86
87	Benzyl alcohol	100-51-6	1985	0/33	0/11	—	(0.2)	3/24	2/8	0.010～0.013	(0.01)													87
			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)					
88	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)	21/38	7/13	0.0014～0.0065	(0.0011)									88
89	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)									89
			1989	0/63	0/21	—	(0.2)	0/66	0/22	—	(0.01)					5/21	2/7	6.4～8.3	(5)					
90	*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)					90
			2005	66/72	8/8	0.013～1.9	(0.012)																	
91	Benzyl-*p*-hydroxybenzoate	94-18-8	2019	1/27	1/27	0.00031	(0.00029)																	91
92	3-Benzylidene camphor	15087-24-8	2019	0/28	0/28	—	(0.023)																	92
93	Benzylidene dichloride	98-87-3	2006													0/15	0/5	—	(2)					93
94	Benzylidyne trichloride	98-07-7	2006													0/15	0/5	—	(4)					94
	[(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																						

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			
	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																						
95	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)									95
			2007													21/24	7/8	4.5～28	(3.8)					
96	Biphenyl-2-ylamine	90-41-5	1977	0/6	0/2	—	(0.05)	0/3	0/1	—	(0.02)													96
97	4,4'-Bipyridyl	553-26-4	2013	0/14	0/14	—	(0.0009)																	97
98	Bis(4-aminocyclohexyl)methane (synonym: Diaminodicyclohexylmethane)	1761-71-3	2015	0/16	0/16	—	(0.014)																	98
	Bis(4-bromophenyl) ether	See Brominated diphenyl ether (4,4'-Dibromodiphenyl ether)																						
99	Bis(2-(2-butoxyethoxy)ethyl) adipate	141-17-3	1978	0/30	0/10	—	(0.8～50)	0/30	0/10	—	(0.04～2)													99
100	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)									100
			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																						
101	Bis(2-chloroethyl) ether	111-44-4	1977	0/6	0/2	—	(2～5)	0/6	0/2	—	(0.5～0.6)													101
			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																						
102	Bis(2-chloro-1-methylethyl) ether	108-60-1	1984	0/24	0/8	—	(0.10)	0/24	0/8	—	(0.003～0.015)													102
103	4,4'-Bis(dimethylamino) benzophenone	90-94-8	1985	0/24	0/8	—	(0.5)	0/24	0/8	—	(0.02)													103
	4,4'-Bis(dimethylaminophenyl) methane	See 4,4'-Methylenebis(*N*,*N*'-dimethylaniline)																						
	Bis(dimethylcarbamoyl)disulfide	See Tetramethylthiuram disulfide																						
104	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)													104
			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																						
105	1,3-Bis[(2,3-	101-90-6	2015	0/19	0/19	—	(0.0097)																	105
106	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)									106
107	Bis(2-ethylhexyl)adipate	103-23-1	1978	0/30	0/10	—	(0.4～25)	0/30	0/10	—	(0.02～1)													107
			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)					
108	Bis(2-ethylhexyl)sebacate	122-62-3	1981	0/21	0/7	—	(0.8～4)	0/21	0/7	—	(0.04～0.4)													108
	2,2-Bis[4-(2-hydoroxy)-3,5-dibromophenyl]propane	See 2,2'-Isopropylidenebis[(2,6-dibromo-4,1- phenylene)oxy] diethanol																						
109	(*Z*)-*N*,*N*-Bis(2-	93-83-4	2016	3/18	3/18	0.0013～0.0037	(0.0013)																	109
	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																						
110	Bis(1-methyl-1-phenylethyl) peroxide	80-43-3	2009	0/66	0/22	—	(0.007)																	110
	Bisphenol A	See 4,4'-Propane-2,2-diyldiphenol																						
111	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)													111
112	Bis(piperidinothiocarbonyl) tetrasulphide	120-54-7	1980	0/21	0/7	—	(0.002～0.07)	0/9	0/3	—	(0.2)													112
113	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)													113
			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)													
114	Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate	52829-07-9	2014	7/21	7/21	0.0061～0.69	(0.0049)																	114
	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)																						
115	2-Bromoaniline	615-36-1	1984	0/18	0/6	—	(0.003～0.1)	0/18	0/6	—	(0.0001～0.012)													115
116	3-Bromoaniline	591-19-5	1984	0/18	0/6	—	(0.006～0.1)	0/18	0/6	—	(0.0004～0.012)													116
117	4-Bromoaniline	106-40-1	1984	0/18	0/6	—	(0.006～0.1)	0/18	0/6	—	(0.0004～0.012)													117
	o-Bromoaniline	See 2-Bromoaniline																						
	m-Bromoaniline	See 3-Bromoaniline																						
	p-Bromoaniline	See 4-Bromoaniline																						
118	Bromobenzene	108-86-1	1981	0/12	0/4	—	(10)	0/12	0/4	—	(0.2)													118
119	1-Bromobutane	109-65-9	1981	0/15	0/5	—	(3)	0/15	0/5	—	(0.012～0.02)													119
120	Bromochlorodifluoromethane (synonym: Halon 1211)	353-59-3	2006	0/15	0/5	—	(0.02)																	120
121	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)									121
122	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)					122
123	Bromodichloromethane	75-27-4	1980													9/81	3/16	0.1～1.9	(0.1～50)					123
			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)					
124	2-(4-Bromodifluoromethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether (synonym: Halfenprox)	111872-58-3	2006	0/33	0/11	—	(0.013)																	124

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			
125	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)									125
			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																						
126	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)									126
			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																						
127	*o* -Bromophenol	95-56-7	1983	0/33	0/11	—	(0.08〜0.1)	0/33	0/11	—	(0.001〜0.005)													127
128	*m* -Bromophenol	591-20-8	1983	0/33	0/11	—	(0.4)	0/33	0/11	—	(0.001〜0.02)													128
129	*p* -Bromophenol	106-41-2	1983	0/33	0/11	—	(0.4)	5/33	3/11	0.02〜0.03	(0.001〜0.02)													129
			1996	0/33	0/11	—	(0.07)	0/33	0/11	—	(0.011)													
			2008	4/102	2/34	0.0020〜0.0029	(0.0018)																	
130	4-Bromophenyl phenyl ether	101-55-3	1984	0/27	0/9	—	(0.15〜0.5)	0/27	0/9	—	(0.0025〜0.12)													130
131	1-Bromopropane	106-94-5	1981	0/15	0/5	—	(2〜3)	0/15	0/5	—	(0.009〜0.02)													131
			2004													27/57	11/19	27〜270	(25)					
			2012	2/21	2/21	0.0027〜0.0073	(0.0015)																	
132	2-Bromopropane	75-26-3	1997	0/36	0/12	—	(0.01)	0/36	0/12	—	(0.028)					0/57	0/19	—	(200)					132
			1998													0/39	0/13	—	(170)					
133	3-Bromo-1- propene (synonym: Allyl bromide)	106-95-6	2006	0/15	0/5	—	(0.0018)																	133
134	*beta* -Bromostyrene	103-64-0	1985	0/30	0/10	—	(0.05)	0/30	0/10	—	(0.003)													134
	BRP	See 1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate																						
	Butachlor	See *N* -(Butoxymethyl)-2-chloro-2',6'-diethylacetanilide																						
135	1,3-Butadiene	106-99-0	1977	0/6	0/2	—	(0.1〜5)	0/6	0/2	—	(0.0005〜0.005)													135
			2013	0/25	0/25	—	(0.049)																	
	Butadiene	See 1,3-Butadiene																						
136	1-Butanamine	109-73-9	1981	0/27	0/9	—	(2〜4)	0/27	0/9	—	(0.005〜0.04)													136
	1,2-Butanediol	See 1,2-Butylene glycol																						
137	1,3-Butanediol	107-88-0	1986	0/24	0/8	—	(0.3)	0/24	0/8	—	(0.03)													137
138	1,4-Butanediol	110-63-4	1986	0/24	0/8	—	(2)	0/24	0/8	—	(0.09)													138
139	1-Butanol	71-36-3	1979	0/30	0/10	—	(100〜1,000)	0/30	0/10	—	(1.0〜10.0)													139
			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)																	
140	2-Butanol	78-92-2	1979	0/30	0/10	—	(100〜1,000)	0/30	0/10	—	(1.0〜10.0)													140
			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																						
141	Butan-2-one oxime	96-29-7	1978	0/21	0/7	—	(10〜30)	0/18	0/6	—	(0.1〜0.7)													141
			2010	54/66	20/22	0.0098〜0.52	(0.0097)																	
			2014													0/30	0/10	—	(13)					
142	2-Butenal (synonym: Crotonaldehyde)	4170-30-3	1987	0/75	0/25	—	(0.8)									0/61	0/10	—	(800)					142
			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																						
143	2-Butoxyethanol	111-76-2	1976	0/60	0/15	—	(90〜100)	0/20	0/4	—	(0.4)													143
			1995	1/168	1/56	2.2	(2)	0/165	0/55	—	(0.22)													
			2000													43/45	15/15	4.8〜560	(2.2)					
144	*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)									144
			2001	0/51	0/17	—	(0.11)	0/51	0/17	—	(0.0016)	Fish 0/48	Fish 0/16	Fish —	(Fish 0.0015)									
145	(Butoxymethyl)oxirane	2426-08-6	1984	0/24	0/8	—	(0.5〜0.7)	0/24	0/8	—	(0.006〜0.019)													145
146	Butyl acetate	123-86-4	1995	0/33	0/11	—	(0.2)									18/18	6/6	8.1〜2,100	(2)					146
			2000													39/45	14/15	110〜13,000	(88)					
147	*n* -Butyl acrylate	141-32-2	1980	0/51	0/17	—	(0.7〜30)	0/51	0/17	—	(0.0080〜0.07)													147
			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)									
	tert -Butyl alcohol	See 2-Methylpropan-2-ol																						
	n -Butylamine	See 1-Butanamine																						
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
	Butyl benzyl phthalate	See Phthalates (*n* -Butyl benzyl phthalate)																						
150	*N'* -*tert* -Butyl-*N* -cyclopropyl-6-(methylthio)-1,3,5-triazine-2,4-diamine	28159-98-0	2005	0/30	0/10	—	(0.008)																	150

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-*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																						
151	1-*tert*-Butyl-3-(2,6-diisopropyl-4-phenoxyphenyl)thiourea (synonym: Diafenthiuron)	80060-09-9	2006	0/15	0/5	—	(0.020)																	151
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)													
	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)																	
	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									Birds 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																						
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)					0/32	0/11	—	(0.00041)									
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)									

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													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)									
			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)					

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	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～	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37	W.S. 37/37	W.S. 0.0009～0.81	(W.S. 0.0003)					
			2017	47/47	47/47	0.000002～0.00021	(0.000001)	61/62	61/62	0.0000017～0.0028	(0.0000016)													
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)									
			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)									

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						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)					
			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	Bivalves 3/3 Fish 19/19	Bivalves 0.000056～0.00033 Fish 0.000012～0.00080	(Bivalves 0.000002) (Fish 0.000002)	W.S. 37/37	W.S. 37/37	W.S. 0.0007～1.1	(W.S. 0.0003)					
			2017	47/47	47/47	0.000002～0.00015	(0.000001)	62/62	62/62	0.000001～0.0030	(0.000001)													
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)					

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	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)		(2016)													W.S. 19/37	W.S. 19/37	W.S. 0.72～4.9	(W.S. 0.64*)					
	(Cl_4 - Cl_7)		(2017)													W.S. 37/37	W.S. 37/37	W.S. 0.21～5.7	(W.S. 0.18*)					
			(2018)													W.S. 37/37	W.S. 37/37	W.S. 0.34～4.8	(W.S. 0.21*)					
			(2019)													W.S. 32/36	W.S. 32/36	W.S. 0.4～50	(W.S. 0.4*)					
	(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 0.0073～0.018	(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*)									
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													W.S. 24/37	W.S. 24/37	W.S. 0.11～	(W.S. 0.11)					
	(Cl_4 - Cl_7)		2017													W.S. 37/37	W.S. 37/37	W.S. 0.07～1.5	(W.S. 0.05)					
			2018													W.S. 37/37	W.S. 37/37	W.S. 0.13～1.7	(W.S. 0.06)					
			2019													W.S. 36/36	W.S. 36/36	W.S. 0.1～1.5	(W.S. 0.1)					
	(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)									
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													W.S. 20/37	W.S. 20/37	W.S. 0.30～3.2	(W.S. 0.24)					
			2017													W.S. 37/37	W.S. 37/37	W.S. 0.09～2.3	(W.S. 0.06)					
			2018													W.S. 37/37	W.S. 37/37	W.S. 0.10～2.6	(W.S. 0.04)					
			2019													W.S. 36/36	W.S. 36/36	W.S. 0.1～2.3	(W.S. 0.1)					
	(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)									
	(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													W.S. 7/37	W.S. 7/37	W.S. 0.18～	(W.S. 0.17)					
			2017													W.S. 37/37	W.S. 37/37	W.S. 0.03～	(W.S. 0.03)					
			2018													W.S. 37/37	W.S. 37/37	W.S. 0.06～	(W.S. 0.04)					
			2019													W.S. 23/36	W.S. 23/36	W.S. 0.11～1.6	(W.S. 0.09)					
	(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)									

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	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)									
	(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													W.S. 13/37	W.S. 13/37	W.S. 0.13～	(W.S. 0.12)					
			2017													W.S. 35/37	W.S. 35/37	W.S. 0.04～1.6	(W.S. 0.04)					
			2018													W.S. 26/37	W.S. 26/37	W.S. 0.07～	(W.S. 0.07)					
			2019													W.S. 19/36	W.S. 19/36	W.S. 0.09～1.6	(W.S. 0.08)					
	(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)									
			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)									
	(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)													

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			
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)																	
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)					

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			
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)					
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)	

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			
			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)	
			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)																	
	o-Chlorophenol	See 2-Chlorophenol																						
	m-Chlorophenol	See 3-Chlorophenol																						
	p-Chlorophenol	See 4-Chlorophenol																						

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			
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	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
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
256	Chrysene	218-01-9	1999													37/37	13/13	0.26～3.9	(0.12)					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
	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																						
259	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)									259
			2011	20/20	20/20	0.0053～9.1	(0.0048)																	
260	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)					260
261	*o* -Cresol	95-48-7	1977	0/9	0/3	—	(0.2～10)	0/9	0/3	—	(0.02～0.1)													261
			2009													39/60	17/20	12～74	(12)					
262	*m* -Cresol	108-39-4	1977	0/9	0/3	—	(0.2～10)	0/9	0/3	—	(0.02～0.1)													262
			2009													42/60	18/20	8.7～44	(6.8)					
263	*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)													263
			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																						
264	Cumene (synonym: Isopropylbenzene)	98-82-8	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.004)													264
			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																						
265	Cyanamide	420-04-2	2019	14/25	14/25	0.31～0.95	(0.28)																	265
266	Cyanides (contains Hydrogen cyanide)	74-90-8	2016													30/30	10/10	160～740	(49)					266

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			
267	*alpha* -Cyano-3-phenoxybenzyl 2-(4-chlorophenyl)-3-methylbutyrate (synonym: Fenvalerate)	51630-58-1	(2007)	0/84	0/12	—	(0.0026*)																	267
			(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)													
267-1	(*S*)-*alpha* -Cyano-3-phenoxybenzyl (*S*)-2-(4-chlorophenyl)-3-methylbutyrate (synonym: Esfenvalerate)	66230-04-4	2007	0/84	0/12	—	(0.0023)																	267-1
268	*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)					268
269	[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)																	269
	2-Cyanopyridine	See 2-Pyridinecarbonitrile																						
270	3-Cyanopyridine	100-54-9	1984	0/24	0/8	—	(1～4)	0/24	0/8	—	(0.05～0.2)													270
	4-Cyanopyridine	See 4-Pyridinecarbonitrile																						
271	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)									271
272	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)													272
			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)									
273	Cyclohexane	110-82-7	1979	0/27	0/9	—	(0.05～0.2)	0/27	0/9	—	(0.0001～0.0004)													273
274	Cyclohexanone	108-94-1	1980	0/24	0/8	—	(4～50)	0/24	0/8	—	(0.2～1.0)													274
			2006	1/15	1/5	0.5	(0.4)	0/15	0/5	—	(0.013)													
			2014	1/20	1/20	0.0059	(0.0012)																	
275	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)													275
	N -Cyclohexyl benzothiazole sulfenamide	See *N* -Cyclohexyl-2-benzothiazolesulfenamide																						
276	*N* -Cyclohexyl-2-benzothiazolesulfenamide	95-33-0	1977	0/12	0/6	—	(0.02～0.08)	0/12	0/6	—	(0.0023 ～0.02)													276
			1998	0/36	0/12	—	(0.21)	0/39	0/13	—	(0.01)													
			2005	0/27	0/9	—	(0.075)																	
277	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)													277
	Cyclopentadiene	See 1,3-Cyclopentadiene																						
278	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)													278
279	Cyclopolydimethylsiloxanes																							279
279-1	Octamethylcyclotetrasiloxane	556-67-2	2019									Bivalves & Fish 23/33	Bivalves & Fish 9/11	Bivalves & Fish 0.00097～0.037	(Bivalves & Fish 0.00079)									279-1
279-2	Decamethylcyclopentasiloxane	541-02-6	2019									Bivalves & Fish 32/33	Bivalves & Fish 11/11	Bivalves & Fish 0.0013 ～0.20	(Bivalves & Fish 0.0013)									279-2
279-3	Dodecamethylcyclohexasiloxane	540-97-6	2019									Bivalves & Fish 22/33	Bivalves & Fish 8/11	Bivalves & Fish 0.00079～0.0047	(Bivalves & Fish 0.00078)									279-3
	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																						
280	*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)									280
			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													W.S. 25/35	W.S. 25/35	W.S. 0.00007～0.00037	(W.S. 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)	W.S. 36/37	W.S. 36/37	W.S. 0.00003～0.00038	(W.S. 0.00003)					
	p,p′-DDD	See 1,1-Dichloro-2,2-bis(4-chlorophenyl)ethane																						
281	*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)									281
			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)									
			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)									

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									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)					
			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													W.S. 34/35	W.S. 34/35	W.S. 0.00006～ 0.0011	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00004～ 0.0012	(W.S. 0.00002)					
282	*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)									282
			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)									

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 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)									
			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)					

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	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													W.S. 35/35	W.S. 35/35	W.S. 0.00031～0.034	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00031～0.049	(W.S. 0.00001)					
283	*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)									283
			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	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)									
			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)									

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			
			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)					
			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													W.S. 35/35	W.S. 35/35	W.S. 0.00014～0.0068	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00008～0.0063	(W.S. 0.00001)					
	p,p′-DDT	See 1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane																						
	DDVP	See Dimethyl 2,2-dichlorovinyl phosphate																						
	Decabromobiphenyl	See Polybromobiphenyls (Decabromobiphenyl)																						
284	*cis* -Decahydronaphthalene	91-17-8	1984	0/18	0/6	－	(0.02～0.1)	0/18	0/6	－	(0.005～0.022)													284
285	*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)													285
	Decalin	See Decahydronaphthalene																						
286	Decyl alcohol (synonym: Decanol)	112-30-1	1979	0/27	0/9	－	(5～50)	0/27	0/9	－	(0.3～1)													286
			2017	2/26	2/26	0.01～0.013	(0.0062)	50/71	17/24	0.0019～0.52	(0.0011)													
	DEHP	See Phthalate esters (Bis(2-ethylhexyl) phthalate)																						

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			
287	12-Deoxyerythromycin (synonym: Erythromycin B)	527-75-3	2014	0/17	0/17	—	(0.0069)																	287
	DEPlankton	See Dimethy 2,2,2-trichloro-1-hydroxyethylphosphonate																						
	Diallylamine	See *N*-2-Propenyl-2-propen-1-amine																						
288	2,4-Diaminoanisole	615-05-4	2015	0/16	0/16	—	(0.16)																	288
289	1,4-Diaminoanthraquinone	128-95-0	1986	0/30	0/10	—	(0.3)	0/30	0/10	—	(0.2)													289
290	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)													290
			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)					5/35	3/12	0.00048～0.00080	(0.00020)									
291	4,4'-Diamino-diphenyl ether	101-80-4	2008	0/33	0/11	—	(0.0032)																	291
			2010					6/38	2/13	0.0029～0.020	(0.0020)													
292	4,4'-Diaminodiphenylmethane	101-77-9	1985	0/30	0/10	—	(5)	0/24	0/8	—	(1)													292
			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																						
293	2,4-Diaminotoluene	95-80-7	1978	0/24	0/8	—	(2～5)	0/24	0/8	—	(1.0～2.2)													293
			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																						
294	Diaveridine	5355-16-8	2014	1/16	1/16	0.01	(0.005)																	294
	Diazinon	See *O*,*O*-Diethyl *O*-(2-isopropyl-6-methyl-4-pyrimidinyl) thiophosphat																						
295	Dibenz[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)					295
			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)					
296	5*H*-Dibenzo[*b*,*f*]azepine-5-carboxamide	298-46-4	2018	16/16	16/16	0.00011～0.054	(0.000021)																	296
297	Dibenzofuran	132-64-9	1983	0/45	0/15	—	(0.2～0.4)	0/45	0/15	—	(0.006～0.027)													297
	2,2'-Dibenzothiazolyl disulfide	See 2,2'-Dithiobis(benzothiazole)																						
298	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)													298
			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)																						
299	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)													299
			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)					
300	Dibenzyltoluenes	26898-17-9	1977	0/15	0/5	—	(10～40)	0/15	0/5	—	(0.5～4)													300
			(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*)									
300-1	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)									300-1
300-2	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)									300-2
300-3	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)									300-3
300-4	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)									300-4
300-5	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)									300-5
300-6	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)									300-6
300-7	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)									300-7
301	1,3-Dibromobenzene	108-36-1	1981	0/18	0/6	—	(0.02～0.05)	0/18	0/6	—	(0.0005)													301
302	1,4-Dibromobenzene	106-37-6	1981	0/18	0/6	—	(0.04～0.1)	0/18	0/6	—	(0.001)													302
303	*o*-Dibromobenzene	583-53-9	1981	0/18	0/6	—	(0.01 ～0.05)	0/18	0/6	—	(0.0002～0.0005)													303
	m-Dibromobenzene	See 1,3-Dibromobenzene																						
	p-Dibromobenzene	See 1,4-Dibromobenzene																						
304	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)									304
305	1,4-Dibromobutane	110-52-1	2006	1/15	1/5	0.0040	(0.0015)																	305

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			
306	Dibromochloromethane	124-48-1	1980													9/63	3/12	0.1～1	(0.1～50)					306
			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)					
307	1,2-Dibromo-3-chloropropane	96-12-8	1982	0/27	0/9	—	(2～12)	0/27	0/9	—	(0.012～0.05)													307
			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																						
308	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)													308
309	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)									309
			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)																	
310	Dibromoethane	74-95-3	1981	0/15	0/5	—	(0.06)	0/15	0/5	—	(0.0003)													310
311	1,2-Dibromoethylene	540-49-8	1981	0/15	0/5	—	(0.5～3)	0/15	0/5	—	(0.003～0.02)													311
312	[(Dibromomethylphenoxy)methyl]oxirane	30171-80-3	1977	0/15	0/7	—	(0.05～0.25)	0/15	0/7	—	(0.006～0.02)													312
313	1,3-Dibromopropane	109-64-8	2006	0/15	0/5	—	(0.0006)																	313
314	Dibromotetrafluoroethane (synonym: Halon 2402)	124-73-2	2006	0/15	0/5	—	(0.01)																	314
315	Dibutyl adipate	105-99-7	1999	0/36	0/12	—	(0.054)	2/36	1/12	0.022～0.023	(0.021)													315
316	Dibutylamine	111-92-2	1986	0/30	0/10	—	(2)	0/30	0/10	—	(0.05)													316
	Di-*n*-butylamine	See Dibutylamine																						
317	2-(Di-*n*-butylamino)-ethanol	102-81-8	2006	2/15	1/5	0.036～0.076	(0.025)									0/15	0/5	—	(18)					317
318	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)													318
319	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)									319
320	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)													320
			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																						
321	Dibutyl decanedioate	109-43-3	1981	0/21	0/7	—	(0.8～4)	0/21	0/7	—	(0.04～0.4)													321
	Di(butyldiglycol) adipate	See Bis(2-(2-butoxyethoxy)ethyl) adipate																						
322	6,6'-Di-*tert*-butyl-4,4'-dimethyl-2,2'-methylenediphenol	119-47-1	2007	0/30	0/10	—	(0.0070)																	322
			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																						
323	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)													323
324	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)													324
			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)									
325	2,4-Di-*tert*-butylphenol	96-76-4	2012	0/14	0/14	—	(0.057)																	325
326	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)									326
			2001	0/159	0/53	—	(0.17)	12/153	4/51	0.0024～0.014	(0.0019)													
327	Di-*n*-butyl phenyl phosphate	2528-36-1	2017	2/21	2/21	0.00096～0.0021	(0.00060)																	327
	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																						

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			
328	Dichloroacetic acid	79-43-6	1984	0/21	0/7	−	(2)	0/21	0/7	−	(0.01～0.02)													328
329	2,3-Dichloroaniline	608-27-5	1984	0/18	0/6	−	(0.01～0.1)	0/18	0/6	−	(0.0001～0.012)													329
			2013	0/18	0/18	−	(0.0031)																	
330	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)													330
			1998	0/39	0/13	−	(0.07)	0/36	0/12	−	(0.008)													
			2013	3/18	3/18	0.0024～0.0028	(0.0011)																	
331	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)													331
			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)																	
332	2,6-Dichloroaniline	608-31-1	1984	0/18	0/6	−	(0.1～1)	0/18	0/6	−	(0.0098～0.08)													332
			2013	0/18	0/18	−	(0.0015)																	
333	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)													333
			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)																	
334	3,5-Dichloroaniline	626-43-7	1984	0/18	0/6	−	(0.02～0.1)	0/18	0/6	−	(0.0002～0.012)													334
			2013	0/18	0/18	−	(0.0023)																	
335	[*o* -(2,6-Dichloroanilino)phenyl]acetic acid (synonym: Diclofenac)	15307-86-5	2016	15/16	15/16	0.00039～0.076	(0.00017)																	335
	1,3-Dichlorobenzene	See *m* -Dichlorobenzene																						
336	*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)	336
			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														
			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)	0/38	0/13	−	(0.0012)	40/42	14/14	9.0～430	(7.1)					
337	*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)	337
			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)									

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 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)	0/38	0/13	－	(0.0010)	32/42	13/14	7.0～260	(6.5)					
338	*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)	338
			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)									
			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														

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						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)	0/38	0/13	－	(0.0017)	42/42	14/14	40～2700	(10)					
339	3,3'-Dichlorobenzidine	91-94-1	1979	0/21	0/7	－	(0.01～7)	0/21	0/7	－	(0.0003～0.9)													339
			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)																	
340	2,6-Dichlorobenzonitrile (synonym: Dichlobenil or DBN)	1194-65-6	2006													21/21	7/7	0.10～0.76	(0.04)					340
341	1,1-Dichloro-2,2-bis(4-chlorophenyl) ethane (synonym: *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)									341
			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)									
			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)									

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						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													W.S. 17/35	W.S. 17/35	W.S. 0.00011～0.00031	(W.S. 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)	W.S. 36/37	W.S. 36/37	W.S. 0.00004～0.00072	(W.S. 0.00003)					
	Dichlorobromomethane	See Bromodichloromethane																						
342	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)					342
			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																						
343	Dichlorodifluoromethane (synonym: CFC-12)	75-71-8	1976													45/115	13/27	310～3,300	(250～1,000)					343
			1977													38/97	26/45	43～1,200	(19～2,000)					
344	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)					344
345	1,1-Dichloroethane	75-34-3	1977	0/3	0/1	—	(0.05)	0/3	0/1	—	(0.0003)													345
			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)					
346	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)									346
			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)					

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	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)					
			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)	
347	1,1-Dichloroethene	75-35-4	1979	0/21	0/7	－	(0.028～0.3)	0/21	0/7	－	(0.0003～0.002)													347
			2013													8/51	4/17	20～2,700	(19)					
348	1,2-Dichloroethenes	156-59-2 156-60-5	(1987)													19/73	7/12	10～160	(10)					348
348-1	*cis* -Dichloroethylene	156-59-2	1977	0/3	0/1	－	(0.06)	0/3	0/1	－	(0.0003)													348-1
			1987	24/66	8/22	0.005～0.54	(0.005)	1/69	1/23	0.00033	(0.0002)													
348-2	*trans* -1,2-Dichloroethylene	156-60-5	1977	0/3	0/1	－	(0.03)	0/3	0/1	－	(0.0002)													348-2
			1987	6/78	2/26	0.077～0.23	(0.01)	3/78	1/26	0.0013～0.0079	(0.00026)													
349	1,1-Dichloro-1-fluoroethane (synonym: HCFC-141b)	1717-00-6	2003													51/51	17/17	73～1,400	(4)					349
350	Dichloromethane	75-09-2	1979													25/46	10/17	70～1,500	(6～10,000)					350
			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)					
351	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)													351
352	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)													352
353	1,2-Dichloro-3-nitrobenzene	3209-22-1	1981	0/21	0/7	－	(0.03)	0/21	0/7	－	(0.0015)													353
			2005	0/15	0/5	－	(0.012)	0/15	0/5	－	(0.0040)													
354	1,2-Dichloro-4-nitrobenzene	99-54-7	1981	0/21	0/7	－	(0.02)	0/21	0/7	－	(0.001)													354
			2014	0/16	0/16	－	(0.008)	0/33	0/11	－	(0.00061)													
	1,3-Dichloro-4-nitrobenzene	See 2,4-Dichloro-1-nitrobenzene																						
355	1,4-Dichloro-2-nitrobenzene	89-61-2	1981	0/21	0/7	－	(0.02)	0/21	0/7	－	(0.001)													355
			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																						
356	2,4-Dichloro-1-nitrobenzene	611-06-3	1981	0/21	0/7	－	(0.02)	0/21	0/7	－	(0.001)													356
			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																						
357	3,5-Dichloronitrobenzene	618-62-2	1981	0/21	0/7	－	(0.006)	0/21	0/7	－	(0.0003)													357

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			
358	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)					358
	1,3-Dichloro-1,1,2,2,3-pentafluoro propane	See 1,3-Dichloro-1,1,2,2,3-pentafluoropropane (synosym: HCFC-225cb)																						
359	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)					359
	3,3-Dichloro-1,1,1,2,2-pentafluoropropane	See 1,1-Dichloro-2,2,3,3,3-pentafluoropropane (synonym: HCFC-225ca)																						
360	2,3-Dichlorophenol	576-24-9	1978	0/24	0/8	—	(0.2～40)	0/24	0/8	—	(0.005～4)													360
			1996	0/33	0/11	—	(0.07)	0/33	0/11	—	(0.011)					0/18	0/6	—	(10)					
361	2,4-Dichlorophenol	120-83-2	1978	0/24	0/8	—	(0.2～40)	0/24	0/8	—	(0.005～4)													361
			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)																	
362	2,5-Dichlorophenol	583-78-8	1978	0/24	0/8	—	(0.2～40)	0/24	0/8	—	(0.005～4)													362
			1996	0/33	0/11	—	(0.07)	0/33	0/11	—	(0.011)					0/18	0/6	—	(10)					
363	2,6-Dichlorophenol	87-65-0	1978	0/24	0/8	—	(0.2～40)	0/24	0/8	—	(0.005～4)													363
			1996	0/33	0/11	—	(0.07)	0/33	0/11	—	(0.011)					0/18	0/6	—	(10)					
364	3,4-Dichlorophenol	95-77-2	1978	0/24	0/8	—	(1～40)	0/24	0/8	—	(0.03～4)													364
			1996	0/33	0/11	—	(0.07)	0/33	0/11	—	(0.011)					0/18	0/6	—	(10)					
365	3,5-Dichlorophenol	591-35-5	1978	0/24	0/8	—	(1～40)	0/24	0/8	—	(0.03～4)													365
			1996	0/33	0/11	—	(0.07)	0/33	0/11	—	(0.011)					0/18	0/6	—	(10)					
366	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)													366
			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)													
367	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)									367
368	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)													368
			1991	0/57	0/19	—	(0.3)	0/54	0/18	—	(0.067)					0/54	0/18	—	(40)					
369	(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)																	369
370	*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)									370
	2,4-Dichlorophenyl-4'-nitrophenyl ether	See Nitrofen																						
371	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)					371
372	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)									372
			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)	

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													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)	
			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)	
373	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)													373
			1984	2/21	1/7	1	(0.5～10)	0/21	0/7	－	(0.01～0.06)													
374	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)					374
			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																						
375	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)					375
376	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)													376
376-1	*cis* -1,3-Dichloropropene		2004	0/42	0/14	－	(0.009)									18/60	8/20	9～100	(9)					376-1
376-2	*trans* -1,3-Dichloropropene		2004	0/42	0/14	－	(0.008)									13/60	7/20	10～70	(10)					376-2
	2,3-Dichloro-1-propene	See 2,3-dichloropropene																						
377	2,3-Dichloropropene	78-88-6	1988	0/66	0/22	－	(0.5)	0/66	0/22	－	(0.0042)					0/72	0/12	－	(200)					377
378	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)													378
379	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)					379
380	2,4-Dichlorotoluene	95-73-8	1981	0/21	0/7	－	(6～60)	0/21	0/7	－	(0.15)													380
			1997	0/36	0/12	－	(0.4)	0/33	0/11	－	(0.0093)													
381	2,6-Dichlorotoluene	118-69-4	1981	0/21	0/7	－	(8～80)	0/21	0/7	－	(0.2)													381
382	3,4-Dichlorotoluene	95-75-0	1981	0/21	0/7	－	(10～100)	0/21	0/7	－	(0.25)													382
383	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)									383
384	2,2-Dichloro-1,1,1-trifluoroethane (synonym: HCFC-123)	306-83-2	2003													10/27	5/10	3～320	(3)					384
	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																						
385	*N* ,*N* -Dicyclohexylamine	101-83-7	2009													0/60	0/20	－	(9)					385
			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																						
386	*N* ,*N* -Dicyclohexyl-1,3-benzothiazole-2-sulphenamide	4979-32-2	1998	0/39	0/13	－	(0.3)	0/39	0/13	－	(0.01)													386
			2009	0/69	0/23	－	(0.0011)																	
			2010					0/87	0/29	－	(0.0007)	0/33	0/11	－	(0.0044)									
387	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)													387
			1989	0/66	0/22	－	(0.1)	0/57	0/19	－	(0.005)													
			2008													0/48	0/20	－	(2.5)					
388	Didodecyl 3,3'-thiodipropionate	123-28-4	1981	0/9	0/3	－	(0.16～1)	0/9	0/3	－	(0.008～0.05)													388
	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																						
389	Diethanolamine	111-42-2	1978	0/12	0/4	－	(0.3～3.4)																	389
			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)																	
390	*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)					390
391	Diethylamine	109-89-7	1981	0/27	0/9	－	(0.6～4)	0/27	0/9	－	(0.006～0.01)													391
392	*N* ,*N* -Diethylaniline	91-66-7	1977	0/6	0/2	－	(1～5)	0/6	0/2	－	(0.25～1)													392
393	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)									393
			(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*)									
393-1	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)									393-1
393-2	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)									393-2
393-3	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)									393-3
393-4	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)									393-4
394	*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)					394
	O ,*O* -Diethyl *O* -(*alpha* -cyanobenzylideneamino) thiophosphate	See *alpha* -(Diethoxyphosphinothioylimino) phenylacetonitrile																						
395	Diethylene glycol	111-46-6	2008													15/15	5/5	6.1～45	(3.3)					395
	Diethylenetriamine	See *N* -(2-Aminoethyl)-1,2-ethanediamine																						
396	*O* ,*O* -Diethyl *S* -[2-(ethylthio)ethyl] dithiophosphate (synonym: Ethylthiometon or Disulfoton)	298-04-4	1993													0/27	0/9	－	(2)					396
			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)																						

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			
397	*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)													397
			1993													0/51	0/17	—	(12)					
			2006	18/30	7/10	0.0010～0.019	(0.001)																	
398	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)									398
399	*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)									399
			2004	3/36	1/12	0.004～0.006	(0.003)	0/36	0/12	—	(0.00022)													
400	*O* ,*O* -Diethyl *O* -(5-phenyl-3-isoxazolyl) thiophosphate (synonym: Isoxathion)	18854-01-8	1993													0/54	0/18	—	(100)					400
			2005	0/63	0/7	—	(0.022)																	
	Diethyl *p* -nitrophenyl phosphate	See Diethyl 4-nitrophenyl phosphate																						
401	*O* ,*O* -Diethyl *O* -(2-quinoxalinyl) thiophosphate (synonym: Chinalphos)	13593-03-8	2006	0/33	0/11	—	(0.008)									0/15	0/5	—	(3)					401
402	Diethylstilbesterol	56-53-1	2010	0/45	0/15	—	(5)																	402
403	Diethyl terephthalate	636-09-9	2001													3/38	1/13	0.16～0.22	(0.042)					403
404	*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)													404
			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)					
	Diheptyl phthalate	See Phthalates (Di-*n* -heptyl phthalate)																						
	1,2-Dihydroacenaphthylene	See Acenaphthene																						
405	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)									405
			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)	
406	*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)					406
			2005	2/54	1/6	0.023～0.040	(0.015)					Fish 0/9	Fish 0/3	Fish —	(Fish 0.0012)									
407	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)													407
408	2,3-Dihydro-6-propyl-2-thioxo-4(1*H*)- pyrimidinone (synonym: Propylthiouracil)	51-52-5	2009	0/84	0/28	—	(0.0046)																	408
409	*5alpha* -Dihydrotestosterone	521-18-6	2009	0/81	0/27	—	(0.000092)																	409
410	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)													410
	Diisobutylene	See 2,4,4-Trimethyl-1-pentene																						
411	1,6-Diisocyanatohexane	822-06-0	2013													2/63	2/21	0.18～0.41	0.14					411
412	Diisodecyl adipate	27178-16-1	1978	0/30	0/10	—	(0.8～100)	0/30	0/10	—	(0.04～5)													412
	Diisopropylamine	See *N* -(1-Methylethyl)-2-propanamie																						
413	1,3-Diisopropylbenzene	99-62-7	1977	0/3	0/1	—	(4)	0/3	0/1	—	(0.01)													413
	m -Diisopropylbenzene	See 1,3-Diisopropylbenzene																						
414	*p* -Diisopropylbenzene	100-18-5	1977	0/3	0/1	—	(4)	0/3	0/1	—	(0.01)													414
415	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)					415
			2005	73/81	9/9	0.0065～1.8	(0.0062)					Fish 0/15	Fish 0/5	Fish —	(Fish 0.0010)									
416	Diisopropyl fluorophosphate	55-91-4	1993													0/48	0/16	—	(15)					416
	Diisopropylidene acetone	See 2,6-Dimethylhepta-2,5-dien-4-one																						
417	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)									417
			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)					
417-1	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)					417-1
417-2	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)					417-2
417-3	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)					417-3
417-4	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)					417-4
417-5	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)					417-5
417-6	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)					417-6
417-7	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)					417-7
417-8	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)					417-8
	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																						
418	3,3'-Dimethoxybenzidine	119-90-4	1977	0/6	0/2	—	(0.05)	0/3	0/1	—	(0.003)													418
			2008	0/18	0/6	—	(0.0021)																	
	4,4'-Dimethoxydiphenylamine	See *N* -(4-methoxyphenyl)*p* -anisidine																						
419	*N* ,*N* -Dimethylacetamide	127-19-5	2014													19/27	7/9	2.5～400	(2.2)					419
			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			
420	*N*,*N*-Dimethylalkane-1-amine*N*-oxides																							420
420-1	*N*,*N*-Dimethyldecyl-1-amine*N*-oxide	2605-79-0	2019	8/30	8/30	0.0031～0.37	(0.0030)																	420-1
420-2	*N*,*N*-Dimethyldodecyl-1-amine*N*-oxide	1643-20-5	2004	9/123	4/41	0.003～0.016	(0.003)																	420-2
			2006					0/12	0/4	－	(0.0008)													
			2015	20/23	20/23	0.0005～0.025	(0.0005)	68/72	24/24	0.000014～0.0035	(0.000014)													
			2019	19/30	19/30	0.0081～0.17	(0.0076)																	
420-3	*N*,*N*-Dimethyltetradecyl-1-amine*N*-oxide	3332-27-2	2019	10/30	10/30	0.0078～0.072	(0.0062)																	420-3
420-4	*N*,*N*-Dimethyloctadecyl-1-amine*N*-oxide	2571-88-2	2019	0/30	0/30	－	(0.0028)																	420-4
421	Dimethylamine	124-40-3	1986	0/33	0/11	－	(4)	9/27	5/9	0.05～0.227	(0.05)													421
			1991													0/48	0/16	－	(640)					
			2012	5/23	5/23	0.53～21	(0.52)									4/60	2/20	29～41	(15)					
422	4-Dimethylaminoazobenzene	60-11-7	1986	0/30	0/10	－	(0.3)	0/30	0/10	－	(0.04)													422
423	3-[[(Dimethylamino)carbonyl]oxy]-1-methylpyridinium	155-97-5	2019	19/26	19/26	0.00015～0.018	(0.000043)																	423
424	(4-{[4-(Dimethylamino)phenyl](phenyl)methylidene}cyclohexa-2,5-dien-1-ylidene)dimethylammonium chloride	569-64-2	1985	0/33	0/11	－	(2)	0/27	0/9	－	(0.2)													424
			2019	5/23	5/23	0.000034～0.00096	(0.000028)																	
425	*N*-[3-(Dimethylamino)propyl]acrylamide	7651-02-7	2019	30/32	30/32	0.0018～0.32	(0.0016)	33/74	15/28	0.0068～0.22	(0.0061)													425
426	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)													426
			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																						
427	2,6-Dimethylaniline	87-62-7	2005	0/12	0/4	－	(0.021)																	427
428	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)													428
			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)													
429	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)													429
430	*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)													430
			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)					
431	3,3'-Dimethylbenzidine	119-93-7	1977	0/6	0/2	－	(0.02)	0/3	0/1	－	(0.002)													431
			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																						
432	*N*,*N*-Dimethylbiguanide hydrochloride (as*N*,*N*-Dimethylimidodicarbonimidic diamide hydrochloride)	1115-70-4	2019	26/27	26/27	0.0098～3.6	(0.00017)																	432
433	*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)					433
434	*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)					434
435	*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)									435
	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																						
436	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)													436
			1993													4/51	2/17	10～13	(10)					
			2006	18/24	6/8	0.0007～0.020	(0.0003)																	
437	Dimethyl disulfide	624-92-0	2017	12/17	12/17	0.0034～0.016	(0.0034)																	437
438	*N*,*N*-Dimethyldithiocarbamamic acid and its salts	79-45-8																						438
	(*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)																	
439	*N*,*N*-Dimethyldodecylamine	112-18-5	2013	3/13	3/13	0.0063～1.2	(0.0062)																	439
440	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)													440
441	2-(1,1-Dimethylethyl)-4,6-dimethylphenol	1879-09-0	1997	0/165	0/55	－	(0.5)																	441
442	*N*,*N*-Dimethylformamide	68-12-2	1978	0/24	0/8	－	(10～50)	0/24	0/8	－	(0.1～0.3)													442
			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)																	
443	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)													443
444	*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)					444

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			
445	*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)													445
			1993	0/30	0/10	—	(0.1)	0/30	0/10	—	(0.71)	Fish 0/30	Fish 0/10	Fish —	(Fish 4.0)									
446	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)					446
			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)									
447	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)													447
			1993													2/45	1/15	20～45	(10)					
			2006	16/18	6/6	0.000015～0.0048	(0.000011)																	
448	Dimethylnaphthalenes (Total of 1,4-isomer 1,5-isomer and 2,3-isomer)	571-58-4 571-61-9	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)													448
		581-40-8	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)					
448-1	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)													448-1
			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)					
448-2	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)													448-2
			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)									
448-3	1,4-Dimethylnaphthalene	571-58-4	1998													29/30	10/10	0.27～7.2	(0.23)					448-3
448-4	1,5-Dimethylnaphthalene	571-61-9	1998													28/30	10/10	0.4～8.9	(0.33)					448-4
448-5	1,7-Dimethylnaphthalene	575-37-1	1998													27/27	9/9	0.13～23	(0.1)					448-5
448-6	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)									448-6
			1998													21/21	7/7	0.09～5.1	(0.08)					
448-7	2,3-Dimethylnaphthalene	581-40-8	1998													28/30	10/10	0.4～13	(0.4)					448-7
448-8	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)													448-8
			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)					
448-9	2,7-Dimethylnaphthalene	582-16-1	1998													27/27	9/9	0.31～22	(0.3)					448-9
449	*N*,*N*-Dimethyl-4-nitrosoaniline	138-89-6	1980	0/27	0/9	—	(0.2)																	449
	N,*N*-Dimethyl-*p*-nitrosoaniline	See *N*,*N*-dimethyl-4-nitrosoaniline																						
450	*N*,*N*-Dimethyl-*n*-octadecylamine	124-28-7	2013	5/12	5/12	0.0019～0.015	(0.0008)																	450
451	*O*,*O*-Dimethyl 4-oxobenzotriazin-3-ylmethyl dithiophosphate (synonym: Azinphosmethyl)	86-50-0	1993													0/24	0/8	—	(21)					451
	2,4-Dimethylphenol	See 2,4-Xylenol																						
452	2,5-Dimethylphenol	95-87-4	1982	0/33	0/11	—	(0.04～0.5)	0/33	0/11	—	(0.0002～0.02)													452
	3,5-Dimethylphenol	See 3,5-Xylenol																						
453	Dimethyl 4,4'-(*o*-phenylene)bis(3-thioallophanate) (synonym: Thiophanate-methyl)	23564-05-8	2007	1/27	1/9	0.00090	(0.00079)																	453
454	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)									454
			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)									
455	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)													455
456	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)					456
457	*O*,*O*-Dimethyl *S*-phthalimidylmethyl dithiophosphate (synonym: Phosmet)	732-11-6	1993													0/24	0/8	—	(7)					457
458	2,2-Dimethyl-1,3-propanediol	126-30-7	1977	0/6	0/2	—	(200～400)	0/6	0/2	—	(2)													458
459	*N*,*N*-Dimethylpropane-1,3-	109-55-7	2016	0/20	0/20	—	(0.030)																	459
460	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)									460
			2010													18/42	8/14	22～46	(22)					
461	Dimethyl terephthalate	120-61-6	1975	1/100	1/20	160	(2～500)																	461
			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)					
462	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)									462
463	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)									463
			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																						
464	*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)									464
			1991	0/45	0/15	—	(0.1)	0/48	0/16	—	(0.013)													
465	*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)									465
			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)													
466	*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)									466
			2003	0/72	0/24	—	(0.054)	0/63	0/21	—	(0.0031)													
467	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)									467
468	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)													468
			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																						
469	1,5-Dinitronaphthalene	605-71-0	1985	0/30	0/10	—	(0.05)	0/30	0/10	—	(0.004)													469
470	1,8-Dinitronaphthalene	602-38-0	1985	0/30	0/10	—	(0.05)	0/30	0/10	—	(0.004)													470

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				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			
471	2,4-Dinitrophenol	51-28-5	1984	0/21	0/7	—	(0.04～0.2)	0/21	0/7	—	(0.004～0.041)													471
			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)									
472	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)									472
473	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)									473
474	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)					474
475	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)									475
			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)					
476	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)									476
			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)													
477	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)									477
	DINP	See See Phthalate esters (Diisononyl Phthalate)																						
478	Dioctadecyl 3,3'-thiobispropionate	693-36-7	1981	0/9	0/3	—	(0.16～1)	0/9	0/3	—	(0.008～0.05)													478
	Dioctyl phthalate	See Phthalates (Di-*n* -octyl phthalate)																						
	Dioctyl sebacate	See Bis(2-ethylhexyl) sebacate																						
	Dioctyltin compounds	See Organotins (Dioctyltin compounds)																						
479	1,4-Dioxane	123-91-1	1976	0/60	0/15	—	(100)	0/20	0/4	—	(0.4)													479
			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)													
			2001	45/99	16/33	0.09～8.0	(0.08)	3/99	1/33	0.014～0.030	(0.010)													
480	Dioxins																							480
480-1	Polychlorinateddibenzo-*p* -dioxins																							480-1
480-1-4	Tetrachlorodibenzo-*p* -dioxins																							480-1-4
	(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)									
480-1-4-1	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)									480-1-4-1
			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)									
480-1-4-2	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)									480-1-4-2
			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)									
480-1-4-3	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)									480-1-4-3
			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)									
			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)									

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			
480-1-5	Pentachlorodibenzo-*p*-dioxins																							480-1-5
	(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 Fish 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)									
480-1-5-1	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)									480-1-5-1
			1986	0/18	0/18	－	(0.00001)	0/39	0/39	－	(0.000001)	Fish 0/32	Fish 0/32	Fish －	(Fish 0.000001)									
480-1-5-2	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)									480-1-5-2
			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)									
480-1-6	Hexachlorodibenzo-*p*-dioxins																							480-1-6
	(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)									

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					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)									
480-1-6-1	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)									480-1-6-1
			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)									
480-1-6-2	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)									480-1-6-2
			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 0.000003	(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)									
			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)									
480-1-6-3	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)									480-1-6-3
			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)									

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			
480-1-7	Heptachlorodibenzo-*p*-dioxins																							480-1-7
480-1-7-1	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)									480-1-7-1
			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)									
480-1-7-2	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)									480-1-7-2
			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)									
			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)									
480-1-8	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)									480-1-8
			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)									

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			
480-2	Polychlorinateddibenzofurans																							480-2
480-2-4	Tetrachlorodibenzofurans																							480-2-4
	(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)									
			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)									
480-2-4-1	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)									480-2-4-1
			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)									
480-2-4-2	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)									480-2-4-2
			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)									

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			
			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)									
480-2-5	Pentachlorodibenzofurans																							480-2-5
	(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)									
480-2-5-1	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)									480-2-5-1
			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)									
480-2-5-2	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)									480-2-5-2
			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)									

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					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)									
			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)									
480-2-6	Hexachlorodibenzofurans																							480-2-6
	(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)									
480-2-6-1	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)									480-2-6-1
			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)									
480-2-6-2	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)									480-2-6-2
			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)									

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					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)									
480-2-6-3	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)									480-2-6-3
			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)									
480-2-6-4	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)									480-2-6-4
			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)									
480-2-7	Heptachlorodibenzofurans																							480-2-7
	(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)									
480-2-7-1	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)									480-2-7-1
			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)									

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					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)									
480-2-7-2	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)									480-2-7-2
480-2-7-3	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)									480-2-7-3
			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)									
480-2-8	Octachlorodibenzofuran		1987					32/37	32/37	0.000006～0.00023	(0.000005)	Fish 0/37	Fish 0/37	Fish －	(Fish 0.000005)									480-2-8
			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)									
481	1,3-Dioxorane	646-06-0	2019													0/51	0/17	－	(86)					481
	Dipentamethylenethiuramtetrasulfide	See Bis(piperidinothiocarbonyl)tetrasulphide																						
482	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)													482
483	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)									483
			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)																	
484	Diphenyldisulfane	882-33-7	1983	0/30	0/10	－	(0.1)	0/30	0/10	－	(0.005～0.024)													484
			2016	0/15	0/15	－	(0.00057)									0/39	0/13	－	(1.9)					
	Diphenyldisulfide	See Diphenyldisulfane																						
	Diphenyldisulphide	See Diphenyldisulfane																						
485	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)									485
			1984	0/24	0/8	－	(0.02～0.08)	0/24	0/8	－	(0.0006～0.003)													
486	1,3-Diphenylguanidine	102-06-7	1978	0/42	0/14	－	(2～50)	0/42	0/14	－	(0.1～0.5)													486
	1,1-Diphenylhydrazine	See *N*,*N*-Diphenylhydrazine																						
	1,2-Diphenylhydrazine	See Hydrazobenzene																						
	N,*N*′-Diphenylhydrazine	See Hydrazobenzene																						
487	*N*,*N*-Diphenylhydrazine	530-50-7	1982	0/9	0/3	－	(10)	0/9	0/3	－	(0.3)													487
488	5,5-Diphenyl-2,4-imidazolidinedione (synonym: Phenytoin	57-41-0	2006	9/33	3/11	0.0040～0.011	(0.0022)																	488
			2016	2/15	2/15	0.0049～0.028	(0.0021)																	
489	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)													489
			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)													
490	*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)					490
			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)																						
491	Diphenyl tolyl phosphate	26444-49-5	1981	0/63	0/21	－	(0.05)	0/63	0/21	－	(0.005)													491
492	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)																	492

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			
493	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)													493
	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)																						
494	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)													494
			2008													0/15	0/5	—	(0.16)					
	Distearyl thiodipropionate	See Dioctadecyl 3,3'-thiobispropionate																						
495	Disulfiram	97-77-8	1992	0/30	0/10	—	(2.64)																	495
	Disulfoton	See *O*,*O*-Diethyl *S*-[2-(ethylthio)ethyl] dithiophosphate																						
496	2,2'-Dithiobis(benzothiazole)	120-78-5	1977	0/12	0/6	—	(0.5)	0/12	0/6	—	(0.05～0.17)													496
497	*N*,*N*′-Ditolyl-*p*-phenylenediamine	27417-40-9	2004	0/18	0/6	—	(0.009)									0/3	0/1	—	(0.0006)					497
			2008	0/48	0/48	—	(0.0020)																	
			2010													W.S. 0/114	W.S. 0/37	W.S. —	(W.S. 0.00051)					
498	Divinylbenzenes	1321-74-0	2006	0/15	0/5	—	(0.002)																	498
	Divinylbenzenes (Total of *m*-Divinylbenzene and *p*-Divinylbenzene)	108-57-6, 105-06-6	2014													0/30	0/10	—	(13)					
499	*N*,*N*′-Dixylyl-*p*-phenylenediamine	28726-30-9	2004	0/18	0/6	—	(0.020)									0/3	0/1	—	(0.001)					499
			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																						
500	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	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)									500
	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																						
501	Doxycycline	564-25-0	2014	0/16	0/16	—	(0.02)																	501
	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																						
502	Endosulfansulfate	1031-07-8	1983	0/36	0/12	—	(0.03～0.4)	0/36	0/12	—	(0.003～0.054)													502
	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																						
503	Epichlorohydrin	106-89-8	1977	0/3	0/1	—	(10)	0/3	0/1	—	(0.06)													503
			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																						
504	1,2-Epoxybutane	106-88-7	2006	2/15	2/5	0.0026～0.0047	(0.0016)									6/9	2/3	26～160	(16)					504
	1,2-Epoxy-3-phenoxypropane	See 2,3-Epoxypropyl phenyl ether																						
505	1,2-Epoxypropane	75-56-9	1980	0/36	0/12	—	(0.2～5)	0/12	0/4	—	(0.002～0.004)													505
			1996													30/46	12/16	16～210	(16)					
			2012																					
506	2,3-Epoxy-1-propanol	556-52-5	1983	0/30	0/10	—	(2～5)	0/30	0/10	—	(0.01～0.05)													506
			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)																	
507	2,3-Epoxypropyl methacrylate	106-91-2	1986	0/30	0/10	—	(0.3)	0/24	0/8	—	(0.04)													507
			2011													0/33	0/11	—	(59)					
508	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)													508
509	1,2-Epoxy-3-(tolyloxy)propane	26447-14-3	2016	0/15	0/15	—	(0.24)																	509
510	Erythromycin	114-07-8	2014	6/17	6/17	0.0055～0.03	(0.0049)																	510
	Esfenvalerate	See (*S*)-*alpha*-Cyano-3-phenoxybenzyl (*S*)-2-(4-chlorophenyl)-3-methylbutyrate																						
511	17*beta*-Estradiol	50-28-2	2005	14/35	4/10	0.00015～0.0017	(0.00011)																	511
512	Estrone	53-16-7	2005	22/38	6/11	0.0004～0.0058	(0.00011)																	512
			2016	10/15	10/15	0.00014～0.0041	(0.000046)																	
513	Estrone-3-glucuronide	2479-90-5	2016	0/15	0/15	—	(0.00050)																	513
514	Estrone-3-sulfate	481-97-0	2016	8/15	8/15	0.00033～0.0034	(0.000068)																	514
	1,2-Ethandiol	See Ethylene glycol																						
515	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)									515
	Ethanolamine	See 2-Aminoethanol																						
516	Ethene	74-85-1	1977	1/6	1/2	0.1	(0.05 ～5)	3/6	1/2	0.0002～0.0006	(0.005)													516
517	4'-Ethoxyacetanilide (synonym: Phenacetin)	62-44-2	2006	0/15	0/5	—	(0.0006)																	517
			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																						
518	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)													518
	2-Ethoxyethanol	See Ethylene glycol monoethyl ether																						
519	2-(2-Ethoxyethoxy)ethanol	111-90-0	2015	20/20	20/20	0.11～0.48	(0.054)																	519
520	2-Ethoxyethyl acetate	111-15-9	1986	0/30	0/10	—	(0.5)	0/30	0/10	—	(0.09)													520
			1995	0/33	0/11	—	(0.05)	0/33	0/11	—	(0.0036)													
			2010													19/54	8/18	12～260	(12)					

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			
521	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)																	521
522	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)													522
523	Ethyl acetate	141-78-6	1995													18/18	6/6	99～11,800	(2)					523
			2000													44/45	15/15	170～160,000	(40)					
			2010	0/69	0/23	—	(0.38)																	
524	Ethyl acrylate	140-88-5	1980	0/51	0/17	—	(0.3～50)	0/51	0/17	—	(0.0041～0.12)													524
			2001													3/15	1/5	0.6～1.8	(0.5)					
525	Ethylamine	75-04-7	1981	0/27	0/9	—	(0.8～2)	0/27	0/9	—	(0.005～0.01)													525
			2016	1/20	1/20	0.26	(0.20)																	
526	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)																	526
527	*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)													527
			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)																	
528	2-Ethyl-9,10-anthraquinone	84-51-5	1985	0/33	0/11	—	(0.3)	0/33	0/11	—	(0.05)													528
	2-Ethylanthraquinone	See 2-Ethyl-9,10-anthraquinone																						
529	Ethylbenzene	100-41-4	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.004)													529
			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)					1/35	1/12	0.0044	(0.0033)									
530	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)									530
	Ethylbiphenyl	See Ethyl-1,1'-biphenyl																						
	Ethyl bromide	See Bromoethane																						
	Ethyl cellosolve	See Ethylene glycol monoethyl ether																						
	Ethyl chloride	See Chloroethane																						
531	*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)					531
	Ethyl *p,p'*-dichlorobenzilate	See Chlorobenzilate																						
532	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)					532
			2007	0/84	0/12	—	(0.022)	0/30	0/12	—	(0.00045)													
533	*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)													533
534	*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)																	534
			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)																	
535	Ethylene chlorohydrin	107-07-3	1980	0/24	0/8	—	(3～5)	0/24	0/8	—	(0.02～0.20)													535
536	Ethylenediamine	107-15-3	1987	0/87	0/29	—	(0.4)	1/84	1/28	0.087	(0.078)													536
537	Ethylenediaminetetraacetic acid	60-00-4	1979	0/24	0/8	—	(10～20)	5/24	2/8	2.3～13	(0.2～2.0)													537
			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																						
538	Ethylene glycol	107-21-1	1977	0/6	0/2	—	(100～400)	0/6	0/2	—	(1～2.0)													538
			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)																	
539	Ethylene glycol monoethyl ether	110-80-5	1976	0/60	0/15	—	(90～100)	0/20	0/4	—	(0.4)													539
			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																						
540	Ethylene grycol mono methyl ether	109-86-4	1976	0/60	0/15	—	(90～100)	0/20	0/4	—	(0.4)													540
			2000													8/43	5/15	6.7～97	(6.1)					
			2004	0/18	0/6	—	(1.9)																	
541	Ethyleneimine	151-56-4	2006	0/18	0/6	—	(0.004)																	541
			2007													0/18	0/6	—	(2.7)					
542	Ethylene oxide	75-21-8	1980	0/36	0/12	—	(0.2～5)	0/12	0/4	—	(0.001～0.003)													542
			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)																	
543	Ethyl formate	109-94-4	1981	0/9	0/3	—	(60)	0/9	0/3	—	(0.5)													543
544	*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)					544
			2007	7/84	1/12	0.0051～0.0099	(0.0041)																	
545	2-Ethylhexanoic acid	149-57-5	2012													0/41	0/14	—	(390)					545
			2018	1/19	1/19	0.35	(0.16)																	

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			
546	2-Ethyl-1-hexanol	104-76-7	1979	0/30	0/10	—	(0.002～200)	0/30	0/10	—	(0.00003～2)													546
			1995	0/33	0/11	—	(6)	0/33	0/11	—	(0.61)													
	2-Ethylhexanol	See 2-Ethyl-1-hexanol																						
547	2-Ethylhexyl acrylate	103-11-7	1980	0/51	0/17	—	(1.1～12)	0/24	0/8	—	(0.04～0.13)													547
548	(2-Ethylhexyl)diphenyl phosphate	1241-94-7	2017	1/21	1/21	0.0014	(0.00066)																	548
549	2-Ethylhexyl methacrylate	688-84-6	1999	0/27	0/9	—	(0.027)	1/33	1/11	0.0022	(0.00077)													549
550	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)									550
551	*O* -Ethyl *O* -2-(isopropoxycarbonyl)phenyl*N* -isopropylphosphoramidothioate (synonym: Isofenphos)	25311-71-1	2006	0/24	0/8	—	(0.002)																	551
552	Ethyl methacrylate	97-63-2	1979	0/24	0/8	—	(0.005～1)	0/24	0/8	—	(0.00010～0.01)													552
			1999													0/18	0/6	—	(3.3)					
553	4-Ethylmorpholine	100-74-3	1979	0/33	0/11	—	(1～30)	0/33	0/11	—	(0.01～0.7)													553
554	*O* -Ethyl *O* -4-nitorophenyl phenylphosphonothioate (synonym: EPN)	2104-64-5	1986	0/39	0/13	—	(0.3)	0/39	0/13	—	(0.03)													554
			1993													0/54	0/18	—	(50)					
			2006	8/24	3/8	0.00010～0.00018	(0.00009)																	
	Ethyl *p* -oxybenzoate	See Ethyl 4-hydroxybenzoate																						
555	2-Ethylphenol	90-00-6	1983	0/33	0/11	—	(0.04～0.2)	0/33	0/11	—	(0.001～0.02)													555
556	4-Ethylphenol	123-07-9	1983	0/33	0/11	—	(0.06～0.3)	0/33	0/11	—	(0.001～0.02)													556
	o -Ethylphenol	See 2-Ethylphenol																						
557	*m* -Ethylphenol	620-17-7	1983	0/33	0/11	—	(0.06～0.3)	0/33	0/11	—	(0.001～0.02)													557
	p -Ethylphenol	See 4-Ethylphenol																						
558	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)					558
559	*N* -(1-Ethylpropyl)-2,6-dinitro-3,4-xylidine (synonym: Pendimethalin)	40487-42-1	2007	0/84	0/12	—	(0.0014)																	559
560	*S* -2-(Ethylthio)ethyl*O* ,*O* -dimethyl dithiophosphate (synonym: Thiometon)	640-15-3	2008													0/12	0/4	—	(0.23)					560
	Ethylthiometon	See *O* ,*O* -Diethyl *S* -[2-(ethylthio)ethyl] dithiophosphate																						
561	17*alpha* -Ethynylestradiol	57-63-6	2005	0/32	0/9	—	(0.00011)																	561
	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																						
562	Fluoranthene	206-44-0	1999													39/39	13/13	0.58～10	(0.050)					562
			2011	28/28	28/28	0.00017～0.0032	(0.00015)																	
			2017					62/62	21/21	0.0022～2.3	(0.00086)													
563	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)													563
			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)																						
564	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										564
565	Fluorobenzene	462-06-6	1984	0/27	0/9	—	(0.01～0.04)	0/27	0/9	—	(0.00009～0.0010)													565
	Flutamide	See 2-Methyl-*N* -[4-nitro-3-(trifluoromethyl)phenyl]propanamide																						
	Fluvoxamine	See (*E*)-5-Methoxy-4'-(trifluoromethyl)valerophenone*O* -(2-aminoethyl)oxime																						
566	Formaldehyde	50-00-0	1975	0/100	0/20	—	(100,000～500,000)																	566
			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)																	
567	Fthalide	27355-22-2	1996	0/33	0/11	—	(0.05)	0/33	0/11	—	(0.02)													567
568	Fumaric acid	110-17-8	1983	0/24	0/8	—	(1～50)	0/24	0/8	—	(0.02～0.25)													568
	2-Furaldehyde	See Furfural																						
569	Furfural	98-01-1	1996	0/33	0/11	—	(0.4)									6/15	2/5	42～120	(40)					569
			2006													10/21	5/7	57～85	(40)					
570	Glutaraldehyde	111-30-8	2014													43/43	15/15	1～10	(0.89)					570
			2017	0/19	0/19	—	(0.06)																	
	Glycidyl methacrylate	See 2,3-Epoxypropyl methacrylate																						
571	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)													571
			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																						
572	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)									572
			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)					

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	0.0000010～0.000007	(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)					
			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)	W.S. 35/35	W.S. 35/35	W.S. 0.00043～0.049	(W.S. 0.00006)					
			2016									Bivalves 1/3 Fish 8/19 [illegible]	Bivalves 1/3 Fish 8/19 [illegible]	Bivalves 0.0000014 Fish 0.0000009～0.0000055 [illegible]	(Bivalves 0.0000009) (Fish 0.0000009) [illegible]	W.S. 37/37	W.S. 37/37	W.S. 0.00018～0.12	(W.S. 0.00008)					
			2017	2/47	2/47	0.000001～0.000006	(0.000001)	53/62	53/62	0.0000003～0.000040	(0.0000003)													
573	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)									573
			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)									
573-1	*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)					573-1
			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	(Bivalves 0.0000008) (Fish 0.0000008) (Birds 0.0000008)	W.S. 35/35	W.S. 35/35	W.S. 0.0004～0.0047	(W.S. 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～	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 37/37	W.S. 37/37	W.S. 0.00030～0.0091	(W.S. 0.00005)					
			2017	46/47	46/47	0.0000006～0.000083	(0.0000006)	51/62	51/62	0.0000005～0.00015	(0.0000005)													
573-2	*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)					573-2
			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)					
			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)					

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	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)	W.S. 0/35	W.S. 0/35	W.S. －	(W.S. 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)	W.S. 1/37	W.S. 1/37	W.S. 0.0002	(W.S. 0.0001)					
			2017	0/47	0/47	－	(0.0000009)	0/62	0/62	－	(0.0000008)													
574	1-Heptanol	111-70-6	1979	0/27	0/9	－	(5～50)	0/27	0/9	－	(0.3～1)													574
575	Hexabromobenzene	87-82-1	1977	0/15	0/7	－	(0.04～0.5)	0/15	0/7	－	(0.01～0.17)													575
			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. 0.0099～0.38	(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)																						
576	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)									576
576-1	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)													576-1
			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	0.000013～0.60	(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*)	W.S. 4/36	W.S. 4/36	W.S. 0.0019～0.0044	(W.S. 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*)	W.S. 10/35	W.S. 10/35	W.S. 0.0020～0.040	(W.S. 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 0.00014～0.0016	(Bivalves 0.000026*) (Fish 0.000026*) (Birds 0.000026*)	W.S. 32/37	W.S. 32/37	W.S. 0.0003～0.004	(W.S. 0.0003*)					
			(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*)	W.S. 32/37	W.S. 32/37	W.S. 0.0004～0.0046	(W.S. 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*)									

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)									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*)	W.S. 26/36	W.S. 26/36	W.S. 0.0004～0.0057	(W.S. 0.0004*)					
576-1-1	*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)									576-1-1
			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)	W.S. 25/36	W.S. 25/36	W.S. 0.0004～0.0031	(W.S. 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)	W.S. 26/35	W.S. 26/35	W.S. 0.0003～0.030	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0001～0.0024	(W.S. 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)	W.S. 36/37	W.S. 36/37	W.S. 0.0001～0.0033	(W.S. 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)	W.S. 35/36	W.S. 35/36	W.S. 0.0001～0.0041	(W.S. 0.0001)					
576-1-2	*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)									576-1-2
			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)	W.S. 8/36	W.S. 8/36	W.S. 0.0003～0.0008	(W.S. 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)	W.S. 7/35	W.S. 7/35	W.S. 0.0003～0.0039	(W.S. 0.0003)					
			2016					31/62	31/62	0.000053～0.0074	(0.00005)	Bivalves 2/3 Fish 3/19 Birds 2/2	Bivalves 2/3 Fish 3/19 Birds 2/2	Bivalves 0.000008～0.000009 Fish 0.000009～0.000012 Birds 0.000010～0.000011	(Bivalves 0.000008) (Fish 0.000008) (Birds 0.000008)	W.S. 21/37	W.S. 21/37	W.S. 0.0001～0.0007	(W.S. 0.0001)					
			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)	W.S. 33/37	W.S. 33/37	W.S. 0.0001～0.0008	(W.S. 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)	W.S. 26/36	W.S. 26/36	W.S. 0.00009～0.0012	(W.S. 0.00008)					
576-1-3	*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)									576-1-3
			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)	W.S. 4/36	W.S. 4/36	W.S. 0.0005～0.0012	(W.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			
			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)	W.S. 11/35	W.S. 11/35	W.S. 0.0003～0.0044	(W.S. 0.0003)					
			2016					42/62	42/62	0.000064～0.050	(0.00006)	Bivalves 3/3 Fish 11/19	Bivalves 3/3 Fish 11/19	Bivalves 0.000021～0.000061 Fish 0.000012～0.00016	(Bivalves 0.000009) (Fish 0.000009)	W.S. 16/37	W.S. 16/37	W.S. 0.0001～0.0014	(W.S. 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)	W.S. 20/37	W.S. 20/37	W.S. 0.0001～0.0008	(W.S. 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)	W.S. 15/36	W.S. 15/36	W.S. 0.0002～0.0015	(W.S. 0.0002)					
576-1-4	*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)									576-1-4
			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)	W.S. 0/36	W.S. 0/36	W.S. －	(W.S. 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)	W.S. 1/35	W.S. 1/35	W.S. 0.0019	(W.S. 0.0006)					
576-1-5	*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)									576-1-5
			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)	W.S. 0/36	W.S. 0/36	W.S. －	(W.S. 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)	W.S. 0/35	W.S. 0/35	W.S. －	(W.S. 0.0003)					
577	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)									577
			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)									

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		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)					
			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)					

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	0.0000081～0.00033	(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)	W.S. 36/36	W.S. 36/36	W.S. 0.084～0.24	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.074～0.17	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.079～0.22	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.073～0.55	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.072～0.14	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.067～0.13	(W.S. 0.00006)					
578	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)					578
579	Hexachlorobuta-1,3-diene	87-68-3	1981	0/18	0/6	—	(0.02)	0/18	0/6	—	(0.002～2)													579
			2007	0/12 0/48	0/4 0/48	— —	(0.000096) (0.00034)	0/3 22/192	0/1 10/64	— 0.0000085～0.0013	(0.0000092) (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													W.S. 102/102	W.S. 34/34	W.S. 0.045～3.5	(W.S. 0.011)					
			2016													W.S. 111/111	W.S. 37/37	W.S. 0.51～4.3	(W.S. 0.02)					
			2017													W.S. 37/37	W.S. 37/37	W.S. 1.1～23	(W.S. 0.02)					
			2018													W.S. 110/110	W.S. 37/37	W.S. 0.15～8.5	(W.S. 0.01)					
			2019													W.S. 104/108	W.S. 35/36	W.S. 0.02～5.8	(W.S. 0.02)					
580	*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)									580
			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	(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)									

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		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)									
			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. －)					

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	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)					
			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)	W.S. 36/36	W.S. 36/36	W.S. 0.014～0.65	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.0088～0.30	(W.S. 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～	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37	W.S. 37/37	W.S. 0.0054～0.52	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0049～0.70	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.0063～0.23	(W.S. 0.00005)					
581	*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)									581
			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)									

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		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)									
			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)					

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	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)	W.S. 36/36	W.S. 36/36	W.S. 0.00057～0.074	(W.S. 0.00008)					
			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)	W.S. 35/35	W.S. 35/35	W.S. 0.00036～0.034	(W.S. 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	Bivalves 3/3 Fish 19/19	Bivalves 0.000021～0.000050 Fish 0.000005～0.00020	(Bivalves 0.000001) (Fish 0.000001)	W.S. 37/37	W.S. 37/37	W.S. 0.0003～0.064	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00067～0.059	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.00038～0.029	(W.S. 0.00002)					
582	*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)									582
			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)									

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			
			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)									
			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)					

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	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)	W.S. 36/36	W.S. 36/36	W.S. 0.0017～0.10	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.0014～0.051	(W.S. 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～	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37	W.S. 37/37	W.S. 0.00079～0.089	(W.S. 0.00007)					
			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)	W.S. 37/37	W.S. 37/37	W.S. 0.00084～0.093	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.00088～0.049	(W.S. 0.00005)					
583	*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)									583
			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. －)					

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	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. －)					
			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)	W.S. 36/36	W.S. 36/36	W.S. 0.00007～0.050	(W.S. 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)	W.S. 32/35	W.S. 32/35	W.S. 0.00009～0.022	(W.S. 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～	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 35/37	W.S. 35/37	W.S. 0.00010～0.046	(W.S. 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)	W.S. 36/37	W.S. 36/37	W.S. 0.00009～0.046	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.00002～0.019	(W.S. 0.00002)					
584	Hexachlorocyclopentadiene	77-47-4	1981	0/18	0/6	－	(0.2)	0/18	0/6	－	(0.02～20)													584

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			
585	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)									585
			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)									
			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)					

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	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)					
			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)	W.S. 32/36	W.S. 32/36	W.S. 0.00008～0.0029	(W.S. 0.00007)					
			2018					48/61	48/61	0.0000012～0.0075	(0.0000009)													
586	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)									586
			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														

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			
			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)					
			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)	W.S. 36/36	W.S. 36/36	W.S. 0.00089～0.16	(W.S. 0.00011)					
			2018					60/61	60/61	0.0000014～0.00086	(0.0000006)													
587	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)									587
588	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)									588
			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)									

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									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)									
			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)	W.S. 6/34	W.S. 6/34	W.S. 0.004～ 0.017	(W.S. 0.004)					
			2018					50/61	50/61	0.0000008～ 0.00027	(0.0000006)													
589	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)													589
			(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*)	W.S. 36/36	W.S. 36/36	W.S. 0.0026～ 0.095	(W.S. 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*)	W.S. 35/35	W.S. 35/35	W.S. 0.0019～ 0.18	(W.S. 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			
			(2016)													W.S. 37/37	W.S. 37/37	W.S. 0.0010～0.049	(W.S. 0.0006*)					
			(2018)	1/47	1/47	0.00006	(0.00005*)	12/61	12/61	0.000004～0.000070	(0.000004*)													
589-1	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)					589-1
			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)					
			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)	W.S. 36/36	W.S. 36/36	W.S. 0.0026～0.090	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.0016～0.14	(W.S. 0.0003)					
			2016													W.S. 37/37	W.S. 37/37	W.S. 0.0010～0.046	(W.S. 0.0003)					
			2018	1/47	1/47	0.00005	(0.00004)	21/61	21/61	0.000002～0.000030	(0.000002)													
589-2	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)					589-2
			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	Bivalves 4/4 Fish 9/18	Bivalves 0.000004～0.000052 Fish 0.000004～0.000037	(Bivalves 0.000004) (Fish 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)	W.S. 33/36	W.S. 33/36	W.S. 0.0005～0.0061	(W.S. 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)	W.S. 33/35	W.S. 33/35	W.S. 0.0002～0.038	(W.S. 0.0002)					
			2016													W.S. 34/37	W.S. 34/37	W.S. 0.0003～0.0033	(W.S. 0.0003)					
			2018	3/47	3/47	0.00001～0.00002	(0.00001)	11/61	11/61	0.000002～0.000041	(0.000002)													
590	Hexachlorophene	70-30-4	1981	0/33	0/11	－	(0.005～5)	33/33	11/11	0.005～0.42	(0.003)													590
			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)													
591	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)									591
			1986													9/73	4/12	0.50～1.8	(0.5)					
592	Hexahydro-1*H* -azepine	111-49-9	1986	0/30	0/10	－	(5)	0/24	0/8	－	(0.03)													592
593	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)					593
594	Hexamethylenediamine	124-09-4	1987	0/87	0/29	－	(2)	0/87	0/29	－	(0.46)													594
			2016	1/16	1/16	2.7	(0.0043)									6/45	3/15	1.2～3.7	(0.91)					
	Hexamethyleneimine	See Hexahydro-1*H* -azepine																						
	Hexamethylenetetramine	See 1,3,5,7-Tetraazatricyclo[3.3.1.1(3.7)]decane																						
595	*n* -Hexane	110-54-3	2004	0/60	0/20	－	(0.008)									52/53	18/18	140～44,000	(90)					595
			2018	1/25	1/25	0.012	(0.01)	0/63	0/21	－	(0.0011)													
596	4'-Hexyl[1,1'-biphenyl]-4-carbonitrile	41122-70-7	1985	0/27	0/9	－	(2)	0/27	0/9	－	(0.05)													596
	Hexylene glycol	See 2-Methyl-2,4-pentanediol																						
	4-(4-Hexylphenyl)benzonitrile	See 4'-Hexyl[1,1'-biphenyl]-4-carbonitrile																						
597	Hydrazine	302-01-2	1986	0/30	0/10	－	(2)	0/30	0/10	－	(0.2)													597
			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)					
598	Hydrazobenzene	122-66-7	1986	0/30	0/10	－	(0.6)	0/30	0/10	－	(0.3)													598
	Hydrochlorothiazide	See 6-Chloro-7-sulfamoyl-3,4-dihydrobenzo[*e*][1,2,4]-2*H* -thiadiazine 1,1-dioxide																						
599	Hydrogenated terphenyls	61788-32-7	1977	0/15	0/5	－	(10～20)	0/15	0/5	－	(0.5～2)													599
			(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*)													
599-1	Hydrogenated terphenyl (HT242a**)		2006									Bivalves & Fish 1/30	Bivalves & Fish 1/10	Bivalves & Fish 0.00018	(Bivalves & Fish 0.00008)									599-1
			2007	2/39	1/13	0.00019～0.00023	(0.00018)	18/33	8/11	0.000074～0.020	(0.000068)													
599-2	Hydrogenated terphenyl (HT242b**)		2006									Bivalves & Fish 1/30	Bivalves & Fish 1/10	Bivalves & Fish 0.00016	(Bivalves & Fish 0.00009)									599-2
			2007	5/39	3/13	0.00012～0.00019	(0.000093)	18/33	8/11	0.000072～0.0088	(0.000064)													

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			
599-3	Hydrogenated terphenyl (HT242c**)		2006									Bivalves & Fish 0/30	Bivalves & Fish 0/10	Bivalves & Fish －	(Bivalves & Fish 0.00002)									599-3
			2007	0/39	0/13	－	(0.000050)	2/33	2/11	0.00043～0.00074	(0.000019)													
599-4	Hydrogenated terphenyl (HT242d**)		2006									Bivalves & Fish 0/30	Bivalves & Fish 0/10	Bivalves & Fish －	(Bivalves & Fish 0.00005)									599-4
			2007	0/39	0/13	－	(0.00065)	14/33	6/11	0.00018～0.0071	(0.000046)													
599-5	Hydrogenated terphenyl (HT263a**)		2006									Bivalves & Fish 5/30	Bivalves & Fish 2/10	Bivalves & Fish 0.00010～0.00034	(Bivalves & Fish 0.00010)									599-5
			2007	1/39	1/13	0.000074	(0.000056)	8/33	5/11	0.00018～0.0019	(0.000028)													
599-6	Hydrogenated terphenyl (HT263b**)		2006									Bivalves & Fish 1/30	Bivalves & Fish 1/10	Bivalves & Fish 0.00013	(Bivalves & Fish 0.00009)									599-6
			2007	3/39	3/13	0.00012～0.00017	(0.00011)	21/33	8/11	0.00017～0.023	(0.000086)													
599-7	Hydrogenated terphenyl (HT263c**)		2006									Bivalves & Fish 0/30	Bivalves & Fish 0/10	Bivalves & Fish －	(Bivalves & Fish 0.00009)									599-7
			2007	0/39	0/13	－	(0.00016)	15/33	6/11	0.000079～0.016	(0.000026)													
600	Hydroquinone	123-31-9	1996	0/168	0/56	－	(0.36)	36/164	17/55	0.018～0.76	(0.017)													600
			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																						
601	3-Hydroxyestra-1,3,5(10),7-tetraen-17-one (synonym: Equilin)	474-86-2	2013	0/16	0/16	－	(0.00017)																	601
602	17*beta*-Hydroxyestra-4,9,11-trien-3-one	10161-33-8	2012	0/16	0/16	－	(0.000017)																	602
603	(1-Hydroxyethane-1,1-diyl)diphosphonic acid and its solts	2809-21-4	2018	0/24	0/24	－	(3.3)																	603
604	2-Hydroxyethyl acrylate	818-61-1	2015													0/54	0/18	－	(58)					604
605	2-Hydroxyethyl methacrylate	868-77-9	1999	3/27	1/9	0.12～0.51	(0.025)	0/27	0/9	－	(0.0014)													605
606	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)													606
	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																						
607	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)													607
	IBP	See *S*-Benzyl *O*,*O*-diisopropyl thiophosphate																						
608	2-Imidazolidinethione	96-45-7	1983	0/33	0/11	－	(0.8～40)	0/33	0/11	－	(0.02 ～0.51)													608
			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																						
609	Indium and its compounds (as	7440-74-6 etc.	2006	0/12	0/4	－	(0.0015)									15/15	5/5	0.011～0.55	(0.007)					609
610	Iodomethane	74-88-4	1980													4/27	3/6	20～66	(1～20)					610
611	3-Iodo-2-propynyl butylcarbamate	55406-53-6	2005	0/12	0/4	－	(0.080)																	611
612	Iopanoic acid	96-83-3	2010	0/48	0/16	－	(0.0096)																	612
	Iprobenphos	See *S*-Benzyl *O*,*O*-diisopropyl thiophosphate																						
613	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)									613
614	Isobutyl acetate	110-19-0	2000													29/44	12/15	73～710	(70)					614
			2006													9/21	4/7	95～570	(95)					
615	Isobutyl alcohol	78-83-1	2008													23/63	11/21	170～900	(170)					615
			2011	15/25	15/25	0.067～0.29	(0.063)																	
616	Isobutyl formate	542-55-2	1981	0/9	0/3	－	(45)	0/9	0/3	－	(0.45)													616
617	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)									617
	Isobutyl *p*-oxybenzoate	See Isobutyl 4-hydroxybenzoate																						
618	Isobutyraldehyde	78-84-2	2015													0/57	0/19	－	(2,200)					618
	Isobutyronitrile	See 2-Methylpropannitrile																						
619	Isochlortetracycline	514-53-4	2014	0/16	0/16	－	(0.0064)																	619
620	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9	2014													0/30	0/10	－	(2)					620
621	Isocyanuric acid	108-80-5	1983	0/30	0/10	－	(2～4)	0/30	0/10	－	(0.025～0.24)													621
			2019	16/30	16/30	0.62～7.8	(0.50)																	
	Isophorone	See 3,5,5-Trimethyl-2-cyclohexen-1-one																						
622	Isophthalic acid	121-91-5	1983	0/24	0/8	－	(1～20)	0/24	0/8	－	(0.02～0.1)													622
623	Isophthalonitrile	626-17-5	1977	0/6	0/2	－	(1～5)	0/6	0/2	－	(0.1～1)													623
624	Isoprene	78-79-5	1978	0/12	0/4	－	(1)	0/12	0/4	－	(0.001～0.0039)													624
			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																						
625	Isopropylamine	75-31-0	1980	0/27	0/9	－	(0.5～33)	0/27	0/9	－	(0.001～0.18)													625
			1981	0/27	0/9	－	(0.6～4)	0/27	0/9	－	(0.006～0.01)													
	Isopropylbenzene	See Cumene																						
626	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)									626
627	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)									627
628	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)													628
			2005	0/15	0/5	－	(0.020)	0/27	0/9	－	(0.011)													

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			
	4,4'-Isopropylidenediphenol	See 4,4'-Propane-2,2-diyldiphenol																						
629	2-Isopropylnaphthalene	2027-17-0	1984	0/18	0/6	—	(0.006～0.2)	1/18	1/6	0.021	(0.0004～0.012)													629
			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																						
630	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)					630
			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																						
631	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)					631
	Isoprothiolane	See diisopropyl 1,3-dithiolan-2-ylidenemalonate																						
	Isoxathion	See *O*,*O*-Diethyl *O*-(5-phenyl-3-isoxazolyl) thiophosphate																						
632	Josamycin	16846-24-5	2014	0/17	0/17	—	(0.0055)																	632
	Kelthane	See 2,2,2-Trichloro-1,1-bis(4-chlorophenyl)ethanol																						
	Kepone	See Chlordecone																						
	Ketoprofen	See 2-(*m*-Benzoylphenyl)propionic acid																						
633	11-Ketotestosterone	564-35-2	2011	0/19	0/19	—	(0.000088)																	633
	Kitazin P	See *S*-Benzyl *O*,*O*-diisopropyl thiophosphate																						
	LAS	See Alkylbenzene sulfonetes (Linear alkylbenzene sulfonetes)																						
634	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)									634
			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)									
635	Leucomycin A5	18361-45-0	2014	0/17	0/17	—	(0.0058)																	635
636	Levofloxacin	100986-85-4	2019	20/26	20/26	0.0008～0.54	(0.00044)																	636
637	Lincomycin	154-21-2	2014	5/17	5/17	0.0056～0.017	(0.005)																	637
	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																						
638	Maleic acid	110-16-7	1983	0/24	0/8	—	(1～50)	0/24	0/8	—	(0.05～0.25)													638
	Maneb	See *N*,*N*′- Ethylenebis(dithiocarbamamic acid) and its salts																						
639	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										639
	Manzeb	See *N*,*N*′- Ethylenebis(dithiocarbamamic acid) and its salts																						
640	MCPPlankton (synonym: Mecoprop)	93-65-2	1996	0/33	0/11	—	(0.2)	0/33	0/11	—	(0.02)													640
	Mecoprop	See MCPP																						
641	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)													641
			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																						
642	Mercaptoacetic acid	68-11-1	2007	9/15	3/5	0.0016～0.024	(0.0011)																	642
643	2-Mercaptobenzimidazole	583-39-1	1978	0/45	0/15	—	(0.25～50)	0/39	0/13	—	(0.017～2.5)													643
	2-Mercaptobenzothiazole	See Benzothiazole-2-thione																						
	2-Mercaptoimidazoline	See 2-Imidazolidinethione																						
644	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)									644
			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	See *N*,*N*-Dimethylbiguanide hydrochloride (as *N*,*N*-Dimethylbiguanide)																						
645	Methacrylic acid	79-41-4	1987	0/75	0/25	—	(6)	0/75	0/25	—	(0.14)													645
			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)					
646	Methacrylonitrile	126-98-7	1987	0/75	0/25	—	(0.7)	0/75	0/25	—	(0.014)					0/61	0/10	—	(40)					646
	Methanethiol	See Methyl mercaptan																						
647	Methanol	67-56-1	1995													14/18	5/6	3,100～49,000	(2,000)					647
	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																						
	3-Methoxyaniline	See *m*-Anisidine																						
648	4-Methoxybenzaldehyde		2010	0/51	0/17	—	(0.014)																	648
649	2-Methoxy-4*H*-1,3,2-benzodioxaphosphorin-2-sulfide (synonym: salithion)	3811-49-2	1993													0/27	0/9	—	(2)					649
650	3-Methoxy-1-butanol	2517-43-3	1980	0/27	0/9	—	(2.5～10)	0/27	0/9	—	(0.025～0.6)													650
651	3-Methoxybutyl acetate	4435-53-4	1980	0/27	0/9	—	(2.5～10)	0/27	0/9	—	(0.025～0.8)													651
			1995	0/33	0/11	—	(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			
	Methoxybutyl acetate	See 3-Methoxybutyl acetate																						
652	Methoxychlor	72-43-5	1985	0/27	0/9	—	(0.01)	0/27	0/9	—	(0.02)													652
			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)									
	2-Methoxyethanol	See Ethylene grycol mono methyl ether																						
653	2-(2-(2-Methoxyethoxy)ethoxy)-ethanol	112-35-6	1988	0/75	0/25	—	(4.1)	0/75	0/25	—	(0.23)													653
654	2-Methoxyethyl acetate	110-49-6	1986	0/30	0/10	—	(0.7)	0/30	0/10	—	(0.2)													654
			2014													0/42	0/14	—	(20)					
			2017	0/18	0/18	—	(1.4)																	
655	9-Methoxy-7*H*-furo[3,2-*g*][1]benzopyran-7-one (synonym: Meladinine)	298-81-7	2006	0/42	0/14	—	(0.01)																	655
656	2-Methoxy-5-methylaniline	120-71-8	1985	0/27	0/9	—	(0.6)	0/27	0/9	—	(0.03)													656
			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																						
657	2-Methoxyphenol	90-05-1	1986	0/39	0/13	—	(0.2)	4/39	2/13	0.010～0.020	(0.01)													657
658	3-Methoxyphenol	150-19-6	1986	0/39	0/13	—	(0.2)	0/39	0/13	—	(0.01)													658
659	4-Methoxyphenol	150-76-5	1986	0/39	0/13	—	(0.2)	0/39	0/13	—	(0.01)													659
660	*N*-(4-Methoxyphenyl)-*p*-anisidine	101-70-2	1977	0/6	0/2	—	(2～5)	0/6	0/2	—	(1)													660
661	(*E*)-5-Methoxy-4'-(trifluoromethyl) valerophenone *O*-(2-aminoethyl)oxime	54739-18-3	2018	0/17	0/17	—	(0.034)																	661
662	Methyl acrylate	96-33-3	1980	0/51	0/17	—	(0.6～50)	0/51	0/17	—	(0.0083～0.12)													662
			2001													0/15	0/5	—	(0.6)					
			2012	2/22	2/22	0.010～8.9	(0.008)																	
663	Methylamine	74-89-5	1986	0/33	0/11	—	(2)	12/21	4/7	0.046～0.213	(0.04)													663
664	*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)													664
			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)									
665	4-Methylbenzenesulfonyl chloride	98-59-9	1977	0/6	0/2	—	(4～10)	0/6	0/2	—	(0.1～0.25)													665
666	Methyl benzoimidazol-2-ylcarbamate (synonym: Carbendazim)	10605-21-7	2011	25/26	25/26	0.00054～0.12	(0.00039)																	666
667	3-(4-Methylbenzylidene)-1,7,7-trimethylbicyclo[2.2.1]heptan-2one	36861-47-9	2013	0/17	0/17	—	(0.44)																	667
668	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)					668
			2007	0/33	0/11	—	(0.0078)																	
	Methyl bromide	See Bromomethane																						
669	Methyl-*tert*-butyl ether (synonym: MTBE)	1634-04-4	1999													33/41	13/15	22～330	(20)					669
			2002	11/45	4/15	0.007～0.025	(0.006)	0/51	0/17	—	(0.00070)													
	Methyl chloride	See Chloromethane																						
670	Methyl 2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylates																							670
670-1	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)																	670-1
670-2	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)																	670-2
	4-Methyl-2,6-di-*tert*-butylphenol	See 2,6-Di-*tert*-butyl-4-metylphenol																						
671	*N*-Methyldidecylamine	7396-58-9	2016	5/20	5/20	0.00091～0.0016	(0.00055)																	671
672	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*)					672
672-1	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)					672-1
672-2	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)					672-2
	Methyl-*N*′,*N*′-dimethyl-*N*-[(methylcarbamoyl)oxy]-1-thiooxamimidate	See *N*′,*N*′-Dimethylcarbamoyl(methylthio)methylenamine*N*-methylcarbamate																						
673	Methyl 3,3-dimethyl-4-pentenoate	63721-05-1	1994	0/102	0/34	—	(0.4)	0/102	0/34	—	(0.004)													673
674	Methyl dodecanoate	111-82-0	2013	9/22	9/22	0.0059～0.038	(0.0052)																	674
	4,4'-Methylenebis(2-chloroaniline)	See 4,4'-Diamino-3,3'-dichlorodiphenylmethane																						
675	Methylenebis(4,1-cyclohexylene) diioscyanate	5124-30-1	2008													0/15	0/5	—	(0.3)					675
			2010													0/63	0/21	—	(0.31)					
676	4,4'-Methylenebis(2,6-dichloroaniline)	25464-95-3	1985	0/30	0/10	—	(5)	0/24	0/8	—	(0.1)													676
677	4,4'-Methylenebis(*N*,*N*'-dimethylaniline)	101-61-1	1986	0/30	0/10	—	(2)	0/24	0/8	—	(0.05)													677
			2008	0/18	0/6	—	(0.0024)																	
678	4,4'-Methylenebis(2-methylcyclohexanamine)	6864-37-5	2009	0/30	0/10	—	(0.0024)																	678
679	Methylenebis(4,1-phenylene) diisocyanate	101-68-8	2016													0/42	0/14	—	(0.54)					679
	4,4'-Methylenedianiline	See 4,4'-Diaminodiphenylmethane																						
	Methylene dichloride	See Dichloromethane																						
	1-Methylethenylbenzene	See *alpha*-Methylstyrene																						

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			
680	2-(1-methylethoxy)-ethanol	109-59-1	2006													4/21	3/7	20～30	(20)					680
681	Methyl ethyl ketone	78-93-3	1980	0/24	0/8	—	(3～8)	0/24	0/8	—	(0.15～0.4)													681
			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																						
682	*N*-(1-Methylethyl)-2-propanamine	108-18-9	1981	0/27	0/9	—	(2)	0/27	0/9	—	(0.005～0.02)													682
683	Methyl formate	107-31-3	1981	0/9	0/3	—	(35)	0/9	0/3	—	(0.25)													683
684	6-Methylhepthyl 3-(3,5-di-*tert*-butyl-4-hydroxyphenyl)propionate	146598-26-7	2007	0/30	0/10	—	(0.040)																	684
685	Methylhydrazine	60-34-4	2007	0/15	0/5	—	(0.027)																	685
686	Methyl 4-hydroxybenzoate	99-76-3	2008	1/9	1/3	0.003	(0.002)																	686
			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																						
687	Methyl isobutyl ketone	108-10-1	1980	0/24	0/8	—	(4～15)	0/24	0/8	—	(0.2～0.6)													687
			1995	0/33	0/11	—	(1.7)	0/33	0/11	—	(0.17)					10/51	5/17	1,100～3,800	(1,100)					
688	Methyl mercaptan	74-93-1	1992													0/51	0/17	—	(1,000)					688
689	Methyl methacrylate	80-62-6	1979	0/24	0/8	—	(0.005～1)	0/24	0/8	—	(0.00011～0.01)													689
			1999													3/18	1/6	28～170	(5.3)					
			2006	1/21	1/7	0.015	(0.008)																	
690	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)					690
691	*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)									691
			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)																	
692	1-Methylnaphthalene	90-12-0	1976	0/28	0/7	—	(0.2～1)	0/28	0/7	—	(0.02～0.1)													692
			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)																	
693	2-Methylnaphthalene	91-57-6	1976	0/28	0/7	—	(0.2～1)	0/28	0/7	—	(0.02～0.1)													693
			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*-toluidine																						
	4-Methyl-2-nitroaniline	See 2-Nitro-*p*-toluidine																						
694	3-Methyl-4-nitrophenol	2581-34-2	1984	0/21	0/7	—	(0.06～0.2)	0/21	0/7	—	(0.006～0.028)													694
			2005																	Indoor air (Car) 6/6		110～1,100ng/m^3	(0.06)	
695	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)																	695
696	2-Methyl-2,4-pentanediol	107-41-5	1980	0/27	0/9	—	(2.5～30)	0/27	0/9	—	(0.025～1.4)													696
			1995	0/33	0/11	—	(0.2)	5/32	2/11	0.022～0.030	(0.0043)													
697	4-Methyl-2-pentanol	108-11-2	1980	0/27	0/9	—	(2.5～8)	0/27	0/9	—	(0.025～0.4)													697
	4-Methyl-2-pentanone	See Methyl isobutyl ketone																						
698	4-Methyl-3-penten-2-one	141-79-7	1980	0/24	0/8	—	(5～50)	0/24	0/8	—	(0.3～1.0)													698
	m-Methylphenol	See *m*-Cresol																						
699	2-Methyl-*m*-phenylenediamine	823-40-5	1990													0/51	0/17	—	(270)					699
700	2-Methyl-1,3-phenylene diisocyanate	91-08-7	2014													0/24	0/8	—	(0.33)					700
701	4-Methyl-1,3-phenylene diisocyanate	584-84-9	2014													2/27	1/9	0.92～1.3	(0.24)					701
702	2-Methylpiperidine	109-05-7	1986	0/30	0/10	—	(20)	0/24	0/8	—	(0.03)													702
703	2-Methylpropannitrile (synonym: Isobutyronitrile	78-82-0	1977	0/3	0/1	—	(1)	0/3	0/1	—	(0.2)													703
			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																						
704	2-Methylpropan-2-ol	75-65-0	1979	0/30	0/10	—	(100～1,000)	0/30	0/10	—	(1.0～10.0)													704
			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																						
705	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)									705
	2-Methylpropyl acetate	See Isobutyl acetate																						
706	2-(1-Methylpropyl)-4,6-dinitrophenol	88-85-7	2007													0/24	0/8	—	(3.2)					706
707	Methylpyridines																							707
	(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)									
707-1	2-Methylpyridine	109-06-8	1986	0/30	0/10	—	(0.3)	7/30	4/10	0.0065～0.024	(0.005)													707-1
			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)					
707-2	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)					707-2
			2008													0/21	0/7	—	(3.4)					
			2017	6/18	6/18	0.012～0.031	(0.012)																	
707-3	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)					707-3
	m-Methylstyrene	See Methylstyrenes (3-Methylstyrene)																						
	p-Methylstyrene	See Methylstyrenes (4-Methylstyrene)																						
708	Methylstyrenes																							708
	(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)					

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			
708-1	*alpha*-Methylstyrene	98-83-9	1977	0/3	0/1	—	(4)	0/3	0/1	—	(0.01)													708-1
			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)													
708-2	*beta*-Methylstyrene	637-50-3	1977	0/3	0/1	—	(4)	0/3	0/1	—	(0.01)													708-2
708-2-1	*trans*-*beta*-Methylstyrene	873-66-5	2000													19/27	8/9	2.4～22	(1.6)					708-2-1
708-3	3-Methylstyrene	100-80-1	1977	0/3	0/1	—	(4)	0/3	0/1	—	(0.01)													708-3
			2000													21/26	7/9	2.6～190	(1.5)					
708-4	4-Methylstyrene	622-97-9	1977	0/3	0/1	—	(4)	0/3	0/1	—	(0.01)													708-4
	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																						
	MIPC	See 2-IsopropylphenylN-methylcarbamate																						
709	Mirex	2385-85-5	1983	0/27	0/9	—	(0.01)	0/27	0/9	—	(0.0006～0.0024)													709
			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)	W.S. 37/37	W.S. 37/37	W.S. 0.00005～0.00020	(W.S. 0.00001)					
	MNCB	See 1-Chloro-3-nitrobenzene																						
	Molinate	See *S*-Ethyl hexahydro-1*H*-azepine-1-carbothioate																						
	Monobutylnaphthalenesulphonic acid	See Butylnaphthalenesulphonate																						
	Monochloroacetic acid	See Chloroacetic acid																						
	Monochloroethane	See Chloroethane																						
	Monoethanolamine	See 2-Aminoethanol																						
	Mono(*alpha*-methylbenzyl)phenol	See *p*-(1-Phenylethyl)phenol																						
710	Morpholine	110-91-8	1979	0/33	0/11	—	(1～50)	0/33	0/11	—	(0.01～0.5)													710
			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)																	
711	2-(Morpholinothio)benzothiazole	102-77-2	1977	0/12	0/6	—	(0.02～0.04)	0/12	0/6	—	(0.0012～0.01)													711
	MPP	See *O*,*O*-Dimethyl *O*-(3-methyl-4-methylthiophenyl) thiophosphate																						
	MTBE	See Methyl-*tert*-butyl ether																						

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			
	MTMC	See *m* -Tolyl methylcarbamate																						
	NAC	See 1-Naphtyl *N* -methylcarbamate																						
	Naled	See 1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate																						
712	Naphthalene	91-20-3	1976	0/20	0/5	—	(0.1)	0/20	0/5	—	(0.01)													712
			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)													
713	2-Naphthalenesulfonic acid polymer with formaldehyde	26353-67-3	1979	0/21	0/7	—	(10～100)	0/27	0/9	—	(0.2～30)													713
	beta -Naphthalenesulfonic acid, polymer with formalin	See 2-Naphthalenesulfonic acid, polymer with formaldehyde																						
714	1-Naphthol	90-15-3	1977	0/6	0/2	—	(0.4～4.5)	0/6	0/2	—	(0.04～0.29)													714
			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																						
715	*beta* -Naphthol	135-19-3	1977	0/6	0/2	—	(0.4～6)	0/6	0/2	—	(0.04～0.39)													715
			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																						
716	1,4-Naphthoquinone	130-15-4	1985	0/30	0/10	—	(4)	0/30	0/10	—	(0.05)													716
	1-Naphthylacetic acid	See 2-(1-Naphthyl)acetic acid																						
717	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)													717
718	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)													718
			1985					6/147	2/49	0.0023～0.051	(0.002)													
			2018													0/42	0/14	—	(0.85)					
719	*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)									719
			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)									
720	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)													720
			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)													
721	2-(2-Naphthyloxy)propionanilide (synonym: Naproanilide)	52570-16-8	2008	0/9	0/3	—	(0.00077)																	721
	1-Naphtyl methylcarbamate	See 1-Naphtyl *N* -methylcarbamate																						
722	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)													722
			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																						
723	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)									723
724	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)									724
			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)									
725	Nitrilotriacetic acid	139-13-9	1980	2/36	1/12	1	(1)	3/36	1/12	0.011～0.013	(0.005～0.02)													725
			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)																	
726	1,1',1"-Nitrilotri-2-propanol	122-20-3	1981	0/24	0/8	—	(10～20)	0/24	0/8	—	(0.08～0.1)													726
727	3-Nitroacenaphthene	3807-77-0	1984	0/21	0/7	—	(0.007～0.02)	0/21	0/7	—	(0.002～0.0071)													727
	5-Nitroacenaphthene	See 1,2-Dihydro-5-nitroacenaphthylene																						
	2-Nitroaniline	See *o* -Nitroaniline																						
	3-Nitroaniline	See *m* -Nitroaniline																						
	4-Nitroaniline	See *p* -Nitroaniline																						
728	*o* -Nitroaniline	88-74-4	1978	0/24	0/8	—	(0.2～0.5)	0/15	0/5	—	(0.007～0.0167)													728
			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)					
729	*m* -Nitroaniline	99-09-2	1978	0/24	0/8	—	(0.3～1)	0/15	0/5	—	(0.01～0.0333)													729
			2007	0/21	0/7	—	(0.0022)																	
			2008					0/22	0/10	—	(0.00022)													
			2009													0/24	0/8	—	(0.27)					
730	*p* -Nitroaniline	100-01-6	1978	0/24	0/8	—	(0.7～1)	0/15	0/5	—	(0.02～0.0333)													730
			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																						
731	*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)									731
			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)																	
732	*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)									732
733	*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)									733
			1991	0/57	0/19	—	(0.25)	0/57	0/19	—	(0.015)													

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			
734	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										734
			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)					
735	5-Nitrobenzimidazole	94-52-0	1985	0/30	0/10	－	(0.7)	0/30	0/10	－	(0.2)													735
736	3-Nitrobenzoic acid	121-92-6	1985	0/33	0/11	－	(10)	0/33	0/11	－	(0.05)													736
	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																						
737	2-Nitro-*p* -cresol	119-33-5	1984	0/21	0/7	－	(0.1～0.3)	0/21	0/7	－	(0.01～0.054)													737
738	3-Nitro-*p* -cresol	2042-14-0	1984	0/21	0/7	－	(0.06～0.2)	0/21	0/7	－	(0.006～0.030)													738
739	5-Nitro-*o* -cresol	5428-54-6	1984	0/21	0/7	－	(0.08～0.2)	0/21	0/7	－	(0.008～0.039)													739
	Nitro-*p* -dichlorobenzene	See 1,4-Dichloro-2-nitrobenzene																						
740	Nitroethane	79-24-3	1986	0/27	0/9	－	(3)	0/27	0/9	－	(0.09)													740
741	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)													741
			2005					0/105	0/35	－	(0.0041)													
			2006													0/18	0/6	－	(0.7)					
742	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)					742
743	Nitromethane	75-52-5	1986	0/27	0/9	－	(1)	0/27	0/9	－	(0.06)													743
			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																						
744	1-Nitronaphthalene	86-57-7	1980	0/33	0/7	－	(0.002～0.05)	0/33	0/7	－	(0.000040～0.0013)													744
	alpha -Nitronaphthalene	See 1-Nitronaphthalene																						
745	2-Nitrophenol	88-75-5	1978	0/30	0/10	－	(0.4～10)	0/30	0/10	－	(0.03～0.5)													745
			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																						
746	*m* -Nitrophenol	554-84-7	1978	0/30	0/10	－	(0.08～10)	0/30	0/10	－	(0.006～0.5)													746
			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)					
747	*p* -Nitrophenol	100-02-7	1978	1/30	1/10	0.13	(0.08～10)	0/30	0/10	－	(0.02～0.5)													747
			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)																	
748	1-Nitropropane	108-03-2	1979	0/18	0/6	－	(50～200)	0/18	0/6	－	(0.3～1.0)													748
			1986	0/27	0/9	－	(3)	0/27	0/9	－	(0.4)													
749	2-Nitropropane	79-46-9	1979	0/18	0/6	－	(50～200)	0/18	0/6	－	(0.3～1.0)													749
			1986	0/27	0/9	－	(3)	0/27	0/9	－	(0.2)													
750	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)					750
			2017	0/22	0/22	－	(0.00018)									0/39	0/13	－	（0.00011)					
751	*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)									751
752	*N* -Nitrosodiethylamine	55-18-5	1981	0/36	0/12	－	(0.3～1)	0/36	0/12	－	(0.02～0.05)													752
			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)					
753	*N* -Nitrosodimethylamine	62-75-9	1981	0/36	0/12	－	(0.2～2)	0/36	0/12	－	(0.01～0.05)													753
			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																						
754	*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)									754
			2005	0/12	0/4	－	(0.0032)																	
755	*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)									755
756	2,2'-(Nitrosoimino)bisethanol	1116-54-7	1994													0/30	0/10	－	(220)					756
	N -(Nitrosoimino)bisethanol	See 2,2'-(Nitrosoimino)bisethanol																						
757	4-Nitroso-N-phenylaniline	156-10-5	1977	0/6	0/2	－	(1～5)	0/6	0/2	－	(0.25～1)													757
	2-Nitrotoluene	See *o* -Nitrotoluene																						
	3-Nitrotoluene	See *m* -Nitrotoluene																						
	4-Nitrotoluene	See *p* -Nitrotoluene]																						
758	*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)									758
			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)													
759	*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)									759
			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)																	
760	*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)									760
			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)									

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			
761	2-Nitro-p-toluidine	89-62-3	1985	0/36	0/12	—	(0.02)	0/36	0/12	—	(0.008)													761
762	4-Nitro-o-toluidine	99-52-5	1985	0/36	0/12	—	(0.04)	0/36	0/12	—	(0.008)													762
763	*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)									763
			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)					
			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)					

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	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～	(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～	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 37/37	W.S. 37/37	W.S. 0.00013～0.12	(W.S. 0.00005)					
			2017	47/47	47/47	0.0000006～0.000036	(0.0000006)	61/62	61/62	0.0000012～0.0015	(0.0000007)													
764	*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)									764
			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)									
			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)									

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		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～	(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～	(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～	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 37/37	W.S. 37/37	W.S. 0.0008～ 0.65	(W.S. 0.0002)					
			2017	47/47	47/47	0.000002～0.00012	(0.000001)	61/62	61/62	0.000002～0.0026	(0.000002)													
765	1-Nonanol	143-08-8	1979	0/27	0/9	—	(5～50)	0/27	0/9	—	(0.3～1)													765
			1995	0/33	0/11	—	(4)	3/30	1/10	0.304～0.392	(0.1)					14/18	5/6	8.7～81	(6)					
766	Nonylphenols	25154-52-3	1976	0/8	0/2	—	(5)	0/8	0/2	—	(0.25)													766
			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)																	

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 & 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*)																	
766-1	4-(3-Ethyl-2-methylhexane-2-yl)phenol		2014	18/30	18/30	0.0017～0.048	(0.0016)																	766-1
766-2	4-(2,3-Dimethylheptan-2-yl)phenol		2014	15/30	15/30	0.0032～0.042	(0.003)																	766-2
766-3	4-(2,4-Dimethylheptan-2-yl)phenol		2014	13/30	13/30	0.0039～0.050	(0.0029)																	766-3
766-4	4-(2,5-Dimethylheptan-2-yl)phenol		2014	12/30	12/30	0.0026～0.032	(0.0019)																	766-4
766-5	One of 4-(3,4-Dimethylheptan-3-yl)phenol stereoisomers		2014	19/30	19/30	0.0014～0.024	(0.0013)																	766-5
766-6	One of 4-(3,5-Dimethylheptan-3-yl)phenol stereoisomers		2014	13/30	13/30	0.0022～0.033	(0.0017)																	766-6
766-7	4-(3,6-Dimethylheptan-3-yl)phenol		2014	30/30	30/30	0.0011～0.061	(0.0010)																	766-7
766-8	4-(2,4-Dimethylheptan-4-yl)phenol		2014	15/30	15/30	0.0016～0.017	(0.0016)																	766-8
766-9	4-(3,4-Dimethylheptan-4-yl)phenol		(2014)	18/30	18/30	0.0017～0.030	(0.00052*)																	766-9
766-9-1	One of 4-(3,4-Dimethylheptan-4-yl)phenol stereoisomers		2014	18/30	18/30	0.00082～0.020	(0.00012)																	766-9-1
766-9-2	The ather of 4-(3,4-Dimethylheptan-4-yl)phenol stereoisomers		2014	19/30	19/30	0.00044～0.016	(0.00040)																	766-9-2
766-10	4-(3-Methyloctan-3-yl)phenol		2014	6/30	6/30	0.0066～0.019	(0.0023)																	766-10
	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																						
767	Octachlorostyrene	29082-74-4	2009	0/72	0/24	—	(0.000046)																	767
768	Octadecylamine(*N*-*B*)triphenylborane	107065-10-1	2005	0/9	0/3	—	(0.0061)																	768
769	1-Octanamine	111-86-4	1988	0/75	0/25	—	(0.1)	0/75	0/25	—	(0.022)													769
770	1-Octanol	111-87-5	1979	0/27	0/9	—	(5～50)	0/27	0/9	—	(0.3～1)													770
			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)									
771	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)					771
	n-Octylamine	See 1-Octanamine																						
772	*p*-*n*-Octylphenol	1806-26-4	2005	0/12	0/4	—	(0.00092)																	772
	Octyltin compounds	See Organic tin compounds (Octyltin compounds)																						
773	Oleandomycin	3922-90-5	2014	0/17	0/17	—	(0.036)																	773
774	Organic silicon compounds	Unknown	1979	0/120	0/40	—	(10)	21/120	8/40	2.1～19.2	(2.0)													774
			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)									
775	Organictin compounds	Unknown	1975	0/80	0/16	—	(10,000～25,000)																	775
775-1	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)									775-1
			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)					
775-2	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)													775-2
			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)					
775-3	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)													775-3
			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)									
			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)	

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			
			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)									
775-4	Tricyclohexyltin compounds	Unknown	1986	0/30	0/10	－	(2)	0/18	0/6	－	(0.04)													775-4
775-5	Dimethyltin compounds	Unknown	2015	6/23	6/23	0.009～0.11	(0.007)									1/42	1/14	18	(3.7)					775-5
775-6	Octyltin compounds	Unknown	1984	0/21	0/7	－	(0.5～6)	0/21	0/7	－	(0.01～0.84)													775-6
775-7	Dioctyltin compounds	Unknown	1984	0/21	0/7	－	(0.5～1)	0/21	0/7	－	(0.03～0.14)													775-7
			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)									
775-8	Trioctyltin compounds	Unknown	1984	0/21	0/7	－	(1)	0/21	0/7	－	(0.07～0.14)													775-8
775-9	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)									775-9
			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)									
775-10	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)									775-10
			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)									

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	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)									
775-11	Triphenyltin compounds (synonym: TPT)	Unknown	1982	0/69	0/23	—	(0.1～35)	0/69	0/23	—	(0.01～1.8)													775-11
			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)									
775-12	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)									775-12
775-13	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)									775-13
776	Ormetoprim	6981-18-6	2014	1/16	1/16	0.011～0.011	(0.005)																	776
	Oxamyl	See *N*′,*N*′-Dimethylcarbamoyl(methylthio)methylenamine*N*-methylcarbamate																						
777	4-Oxilanyl-1,2-epoxycyclohexane	106-87-6	2006													0/15	0/5	—	(16)					777
	Oxirane	See Ethylene oxide																						
778	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)									778
			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)									
			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)									

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									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)					
			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)					

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	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	Bivalves 3/3 Fish 19/19	Bivalves 0.000011～0.000043 Fish 0.000031～0.00095	(Bivalves 0.000001) (Fish 0.000001)	W.S. 37/37	W.S. 37/37	W.S. 0.00019～0.0089	(W.S. 0.00006)					
			2017	19/47	19/47	0.000002～0.000012	(0.000002)	41/62	41/62	0.000001～0.000078	(0.000001)													
779	Oxytetracycline	79-57-2	2014	0/14	0/14	－	(0.0029)																	779
	2,4-PA	See 2,4-Dichlorophenoxy acetic acid																						
	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																						
780	Pentabromobenzene	608-90-2	1981	0/18	0/6	－	(0.005～0.05)	0/18	0/6	－	(0.00005～0.001)													780
781	1,2,3,4,5-Pentabromo-6-chlorocyclohexane	87-84-3	1985	0/27	0/9	－	(0.03)	0/27	0/9	－	(0.004)													781
782	Pentachloroaniline	527-20-8	1981	0/15	0/5	－	(0.0001～0.01)	0/15	0/5	－	(0.001～0.01)													782
783	Pentachloroanisole	1825-21-4	2016									Bivalves 3/3 Fish 19/19	Bivalves 3/3 Fish 19/19	Bivalves 0.000003～0.000035 Fish 0.000001～0.00010	(Bivalves 0.000001) (Fish 0.000001)	W.S. 37/37	W.S. 37/37	W.S. 0.0034～0.22	(W.S. 0.0004)					783
			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)	W.S. 37/37	W.S. 37/37	W.S. 0.0060～0.21	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0046～0.11	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.0043～0.18	(W.S. 0.0001)					
784	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)	784
			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)									
			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)									

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			
			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)	W.S. 36/36	W.S. 36/36	W.S. 0.039～0.21	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.034～0.17	(W.S. 0.0002)					
			2016					62/62	62/62	0.0000011～0.0037	(0.0000006)	Bivalves 3/3 Fish 16/19	Bivalves 3/3 Fish 16/19	Bivalves 0.000011～0.000015 Fish 0.0000055～0.00015	(Bivalves 0.0000051) (Fish 0.0000051)	W.S. 37/37	W.S. 37/37	W.S. 0.033～0.22	(W.S. 0.0002)					
			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)	W.S. 37/37	W.S. 37/37	W.S. 0.032～0.20	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.030～0.10	(W.S. 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			
			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)	W.S. 36/36	W.S. 36/36	W.S. 0.036～0.11	(W.S. 0.00004)					
785	Pentachloroethane	76-01-7	1984	0/21	0/7	－	(0.005～0.04)	0/21	0/7	－	(0.00003～0.00050)													785
786	Pentachloronitrobenzene	82-68-8	1981	0/12	0/4	－	(0.01)	0/12	0/4	－	(0.0005)													786
			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)					
787	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)													787
			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 0.000025～0.00090	(Bivalves 0.000021) (Fish 0.000021) (Birds 0.000021)	W.S. 37/37	W.S. 37/37	W.S. 0.0006～0.025	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0007～0.033	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0009～0.03	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.0006～0.022	(W.S. 0.0002)					
788	Pentaerythritol	115-77-5	1997	0/33	0/11	－	(0.52)	0/33	0/11	－	(0.06)													788
789	Pentanal		2010	3/51	2/17	0.022～0.037	(0.021)																	789
790	4-*tert*-Pentylphenol	80-46-6	2008	0/99	0/33	－	(0.0011)	13/78	6/26	0.00029～0.00044	(0.00028)													790
791	Perfluorododecanoic acid	307-55-1	2010	8/81	3/27	0.0001～0.0003	(0.0001)																	791
			2011					49/105	22/35	0.000025～0.003	(0.000023)													
792	Perfluorohexadecanoic acid	67905-19-5	2010	0/81	0/27	－	(0.000061)																	792
			2011					14/105	5/35	0.00006～0.00059	(0.000048)													
793	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)													793
			2019	45/48	45/48	0.00003～0.0018	(0.00003)	10/61	10/61	0.000005～0.000015	(0.000005)													
794	Perfluorooctane sulfonic acid (PFOS)******	1763-23-1	2002	60/60	20/20	0.00007～0.024	(0.00004)																	794
			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)	W.S. 36/36	W.S. 36/36	W.S. 0.00052～0.0086	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.00059～0.0088	(W.S. 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	Bivalves 2/3 Fish 18/19	Bivalves 0.000006～0.00016 Fish 0.000009～0.0052	(Bivalves 0.000003) (Fish 0.000003)	W.S. 37/37	W.S. 37/37	W.S. 0.0007～0.0093	(W.S. 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									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)	W.S. 37/37	W.S. 37/37	W.S. 0.0011～0.0089	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.0013～0.0078	(W.S. 0.0003)					
795	Perfluorooctanoic acid (PFOA)******	335-67-1	2002	60/60	20/20	0.00033～0.10	(0.00004)																	795
			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)	W.S. 36/36	W.S. 36/36	W.S. 0.0054～0.21	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.0054～0.21	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.0037～0.26	(W.S. 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～	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 37/37	W.S. 37/37	W.S. 0.0032～0.14	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0020～0.15	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.0055～0.046	(W.S. 0.0003)					
796	Perfluorotetradecanoic acid	376-06-7	2010	0/81	0/27	－	(0.0001)																	796
			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																						

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			
797	Phenanthrene	85-01-8	1977	0/9	0/3	—	(0.02～5)	9/9	3/3	0.009～2.8														797
			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)													
798	*p* -Phenetidine	156-43-4	1977	0/6	0/2	—	(1～5)	0/6	0/2	—	(0.5～1.0)													798
			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)																	
799	Phenol	108-95-2	1977	0/9	0/3	—	(0.2～10)	3/9	1/3	0.03～0.04	(0.01～0.1)													799
			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)																	
800	Phenothiazine	92-84-2	1986	0/24	0/8	—	(0.5)	0/24	0/8	—	(1.5)													800
801	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)													801
	(Phenoxymethyl)oxirane	See 2,3-Epoxypropyl phenyl ether																						
	Phenthoate	See Ethyl 2-[(dimethoxyphosphinothioyl)thio]-2-phenylacetate																						
802	1-Phenylazo-2-naphthol	842-07-9	1988	0/72	0/24	—	(0.5)	0/72	0/24	—	(0.10)													802
	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																						
803	*o* -Phenylenediamine	95-54-5	1978	0/24	0/8	—	(5～20)	0/24	0/8	—	(1.0～2.2)													803
			2012	0/22	0/22	—	(0.015)																	
804	*m* -Phenylenediamine	108-45-2	1978	0/24	0/8	—	(5～20)	0/24	0/8	—	(1.0～2.2)													804
			2005	0/12	0/4	—	(0.45)																	
			2012	0/22	0/22	—	(0.010)																	
805	*p* -Phenylenediamine	106-50-3	1978	0/24	0/8	—	(5～20)	0/24	0/8	—	(1.0～2.2)													805
			2012	0/22	0/22	—	(0.016)																	
806	*p* -(1-Phenylethyl)phenol	1988-89-2	1978	0/45	0/15	—	(0.02～10)	0/45	0/15	—	(0.0013～1)													806
807	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)									807
			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)									
808	Phenylhydrazine	100-63-0	1986	0/30	0/10	—	(2)	0/30	0/10	—	(0.2)													808
809	*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)													809
			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																						
810	Phenyl oxirane (synonym: Styrene oxide)	96-09-3	2007	0/15	0/5	—	(0.012)																	810
811	2-Phenylphenol	90-43-7	1978	0/30	0/10	—	(0.02～12.5)	0/30	0/10	—	(0.02～0.68)													811
			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																						
812	*m* -Phenylphenol	580-51-8	1978	0/30	0/10	—	(0.02～50)	0/30	0/10	—	(0.06～2.5)													812
813	*p* -Phenylphenol	92-69-3	1978	0/30	0/10	—	(0.02～50)	0/30	0/10	—	(0.06～2.5)													813
			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)									
814	4-(2-Phenylpropane-2-yl)phenol	52829-07-9	2014	10/20	10/20	0.0029～0.094	(0.0025)																	814
	2-Phenylpropylene	See *alpha* -Methylstyrene																						
815	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)					815
	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																						
816	*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)									816
	Phoxim	See *alpha* -(Diethoxyphosphinothioylimino) phenylacetonitrile																						
817	Phthalate esters	Unknown	1975	54/115	14/23	7.9～77,000	(10～10,000)																	817
817-1	Diallyl phthalate	131-17-9	1985	0/27	0/9	—	(0.2)	0/27	0/9	—	(0.02)													817-1
817-2	Diisodecyl phthalate	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)	817-2
			2001													12/21	6/7	0.30～1.3	(0.30)					
817-3	Diisotridecyl phthalate	27253-26-5	2001													0/21	0/7	—	(0.1)					817-3
817-4	Diisononyl phthalate	28553-12-0	1996	0/33	0/11	—	(4)	0/33	0/11	—	(3.5)					0/18	0/6	—	(72)					817-4
			2001													20/21	7/7	0.42～22	(0.40)					
817-5	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)	817-5
			1996	0/33	0/11	—	(0.2)	0/33	0/11	—	(0.026)					1/18	1/6	3.3	(2.5)					
817-6	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)	817-6
817-7	Diethyl phthalate	84-66-2	1985	0/27	0/9	—	(0.2)	0/27	0/9	—	(0.02)													817-7
817-8	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)	817-8
			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)					
817-9	Dicyclohexyl phthalate	84-61-7	1985	0/27	0/9	—	(0.4)	0/27	0/9	—	(0.05)													817-9
817-10	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)	817-10
			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)									

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	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)									
817-11	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)													817-11
			1996	0/33	0/11	－	(1)	0/33	0/11	－	(1.5)					3/15	1/5	10～17	(6)					
817-12	Dimethyl phthalate	131-11-3	1985	0/27	0/9	－	(0.1)	0/27	0/9	－	(0.01)													817-12
			2007	17/21	7/7	0.0022～0.0097	(0.0017)	16/16	6/6	0.00054～0.0063	(0.00035)													
817-13	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)	817-13
			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)									
			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)									

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			
817-14	*n* -Butyl benzyl phthalate	85-68-7	1985	0/27	0/9	—	(0.1)	2/27	2/9	0.013～0.016	(0.01)													817-14
			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)									
817-15	1,2-Benzenedicarboxylic acid didodecyl ester	2432-90-8	1985	0/27	0/9	—	(2)	0/27	0/9	—	(0.1)													817-15
818	Phthalic acid	88-99-3	1983	0/24	0/8	—	(1～20)	0/24	0/8	—	(0.02～0.1)													818
	o -Phthalonitrile	See Phthalonitrile																						
819	Phthalonitrile	91-15-6	1977	0/6	0/2	—	(1～5)	0/6	0/2	—	(0.1～1)													819
	2-Picoline	See 2-Methylpyridine																						
	alpha -Picoline	See 2-Methylpyridine																						
820	Picric acid	88-89-1	1980	0/9	0/3	—	(1)	0/9	0/3	—	(0.1～0.23)													820
821	Piperazine	110-85-0	1986	0/30	0/10	—	(30)	1/24	1/8	0.07	(0.03)													821
			2008	12/93	4/31	0.012～0.040	(0.004)																	
822	Piperidine	110-89-4	1986	0/30	0/10	—	(10)	0/24	0/8	—	(0.03)													822
823	Piperophos	24151-93-7	1993													0/54	0/18	—	(54)					823
	PMP	See *O* ,*O* -Dimethyl *S* -phthalimidylmethyl dithiophosphate																						
	Polybiphenylchloride	See Polychlorobiphenyls																						
824	Polybrominated dioxins																							824
824-1	Polybrominated dibenzo-*p* -dioxins																							824-1
824-1-4	Tetrabromodibenzo-*p* -dioxins	103456-39-9																						824-1-4
824-1-4-1	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)									824-1-4-1
			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)													
824-1-5	Pentabromodibenzo-*p* -dioxins	103456-36-6																						824-1-5
824-1-5-1	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)									824-1-5-1
			1999					0/39	0/39	—	(0.0000018)	Fish 0/38	Fish 0/38	Fish —	(Fish 0.00000005)									
			2000					0/36	0/36	—	(0.000001)													
824-1-6	Hexabromodibenzo-*p* -dioxins	103456-42-4																						824-1-6
	(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)													
824-1-6-1	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)									824-1-6-1
			1999					0/39	0/39	—	(0.0000006)	Fish 0/38	Fish 0/38	Fish —	(Fish 0.0000005)									
			2000					0/36	0/36	—	(0.000005)													
824-2	Polybrominated dibenzofuranss																							824-2
824-2-4	Tetrabromodibenzofurans	106340-44-7																						824-2-4
824-2-4-1	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)									824-2-4-1
			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)													
824-2-5	Pentabromodibenzofurans	68795-14-2																						824-2-5
824-2-5-1	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)									824-2-5-1
			1999					0/39	0/39	—	(0.0000005)	Fish 0/38	Fish 0/38	Fish —	(Fish 0.00000008)									
			2000					0/36	0/36	—	(0.000001)													
824-2-5-2	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)									824-2-5-2
			1999					0/39	0/39	—	(0.00000030)	Fish 0/38	Fish 0/38	Fish —	(Fish 0.00000007)									
			2000					0/36	0/36	—	(0.000001)													
824-2-6	Hexabromodibenzofurans	103456-33-3																						824-2-6
824-2-6-1	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)									824-2-6-1
			1999					0/39	0/39	—	(0.000006)	Fish 0/38	Fish 0/38	Fish —	(Fish 0.00000030)									
			2000					0/36	0/36	—	(0.000005)													
825	Polybromobiphenyls	Unknown	1981	0/27	0/9	—	(0.1～1)	0/27	0/9	—	(0.005～0.01)													825
825-1	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)					825-1
825-2	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)					825-2
			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)	W.S. 2/35	W.S. 2/35	W.S. 0.00018～0.0011	(W.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			
825-2-1	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)									825-2-1
			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)													
825-2-2	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)									825-2-2
			2011	0/49	0/49	—	(0.0000002)	0/64	0/64	—	(0.0000002)													
825-2-3	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)									825-2-3
			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)													
825-2-4	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)									825-2-4
			2011	0/49	0/49	—	(0.0000002)	0/64	0/64	—	(0.0000004)													
825-2-5	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)									825-2-5
			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)													
825-3	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)					825-3
826	Polybromodiphenyl ethers																							826
	(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*)	W.S. 22/36	W.S. 22/36	W.S. 0.005〜0.071	(W.S. 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*)	W.S. 27/35	W.S. 27/35	W.S. 0.0035〜0.080	(W.S. 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*) (Bivalves 0.00014*)	W.S. 32/37	W.S. 32/37	W.S. 0.0032〜0.098	(W.S. 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*)	W.S. 33/37	W.S. 33/37	W.S. 0.0018〜0.19	(W.S. 0.0015*)					

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	0.000022～0.0032	(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*)	W.S. 31/37	W.S. 31/37	W.S. 0.0015～0.024	(W.S. 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*)	W.S. 33/36	W.S. 33/36	W.S. 0.0006～0.018	(W.S. 0.0005*)					
826-1	Monobromodiphenyl ethers		2001													7/36	3/12	0.0004～0.002	(0.0004)					826-1
			2004													9/9	3/3	0.000095～0.00027	(0.00006)					
			2005	0/6	0/2	－	(0.00025*)																	
826-2	Dibromodiphenyl ethers		2001													29/36	12/12	0.0002～0.012	(0.0002)					826-2
			2004													9/9	3/3	0.00023～0.0033	(0.00010)					
			2005	0/6	0/2	－	(0.000082*)																	
826-2-1	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)													826-2-1
826-3	Tribromodiphenyl ethers		2001													36/36	12/12	0.00007～0.0079	(0.00005)					826-3
			2004													9/9	3/3	0.00022～0.0043	(0.00007)					
			2005	0/6	0/2	－	(0.000086*)																	
826-4	Tetrabromodiphenyl ethers	40088-47-9	2001													27/36	10/12	0.0005～0.01	(0.0005)					826-4
			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)					
			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)	W.S. 36/36	W.S. 36/36	W.S. 0.00009～0.0023	(W.S. 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)	W.S. 30/35	W.S. 30/35	W.S. 0.0001～0.0027	(W.S. 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	Bivalves 3/3 Fish 19/19	Bivalves 0.000023～0.000098 Fish 0.000010～0.00039	(Bivalves 0.000005) (Fish 0.000005)	W.S. 30/37	W.S. 30/37	W.S. 0.0002～0.028	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00006～0.0041	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00005～0.0039	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.00003～0.0055	(W.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			
826-4-1	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)					826-4-1
			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)	W.S. 35/36	W.S. 35/36	W.S. 0.00006～0.0020	(W.S. 0.00006)					
			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)	W.S. 15/35	W.S. 15/35	W.S. 0.00007～0.0024	(W.S. 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 [illegible]	Bivalves 3/3 Fish 19/19 [illegible]	Bivalves 0.000018～0.000059 Fish 0.000007～0.00024 [illegible]	(Bivalves 0.000005) (Fish 0.000005) [illegible]	W.S. 35/37	W.S. 35/37	W.S. 0.00007～0.025	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00006～0.0038	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00004～0.0035	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.00002～0.0050	(W.S. 0.00001)					
826-5	Pentabromodiphenyl ethers	32534-81-9	2001													32/36	12/12	0.0001～0.0093	(0.00009)					826-5
			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)					

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	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)	W.S. 25/36	W.S. 25/36	W.S. 0.00009～0.0008	(W.S. 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)	W.S. 6/35	W.S. 6/35	W.S. 0.0002～0.0009	(W.S. 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～	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 6/37	W.S. 6/37	W.S. 0.0003～0.028	(W.S. 0.0002)					
			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)	W.S. 33/37	W.S. 33/37	W.S. 0.00004～0.0034	(W.S. 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)	W.S. 18/37	W.S. 18/37	W.S. 0.00008～0.0041	(W.S. 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)	W.S. 27/36	W.S. 27/36	W.S. 0.00005～0.0061	(W.S. 0.00005)					
826-5-1	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)					826-5-1
			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 0.000016～0.000061	(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)	W.S. 23/36	W.S. 23/36	W.S. 0.00007～0.00058	(W.S. 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)	W.S. 18/35	W.S. 18/35	W.S. 0.00006～0.00057	(W.S. 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～	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 22/37	W.S. 22/37	W.S. 0.00006～0.021	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00001～0.0026	(W.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			
			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)	W.S. 33/37 C.S. 24/37	W.S. 33/37 C.S. 24/37	W.S. 0.00002～0.0031 C.S. 0.00010～0.027	(W.S. 0.00002) (C.S. 0.00009)					
			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)	W.S. 30/36 C.S. 24/37	W.S. 30/36 C.S. 24/37	W.S. 0.00002～0.0047 C.S. 0.00010～0.027	(W.S. 0.00002) (C.S. 0.00009)					
826-6	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)									826-6
			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)	W.S. 5/36	W.S. 5/36	W.S. 0.0001～0.0004	(W.S. 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)	W.S. 3/35	W.S. 3/35	W.S. 0.0004～0.0020	(W.S. 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 [illegible]	Bivalves 2/3 Fish 18/19 [illegible]	Bivalves 0.000013～0.00004 Fish 0.000016～0.00019 [illegible]	(Bivalves 0.000008) (Fish 0.000008) [illegible]	W.S. 3/37	W.S. 3/37	W.S. 0.0002～0.0027	(W.S. 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)	W.S. 11/37	W.S. 11/37	W.S. 0.0001～0.0021	(W.S. 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)	W.S. 9/37	W.S. 9/37	W.S. 0.00006～0.0015	(W.S. 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)	W.S. 15/36	W.S. 15/36	W.S. 0.00005～0.00079	(W.S. 0.00005)					
826-6-1	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)					826-6-1
			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)					

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	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)					
			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)	W.S. 3/36	W.S. 3/36	W.S. 0.00012～0.00016	(W.S. 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)	W.S. 3/35	W.S. 3/35	W.S. 0.00013～0.00056	(W.S. 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～	(Bivalves 0.000007) (Fish 0.000007) (Birds 0.000007)	W.S. 2/37	W.S. 2/37	W.S. 0.0002～0.0011	(W.S. 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)	W.S. 9/37	W.S. 9/37	W.S. 0.00004～0.00065	(W.S. 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)	W.S. 6/37	W.S. 6/37	W.S. 0.00006～0.00097	(W.S. 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)	W.S. 12/36	W.S. 12/36	W.S. 0.00003～0.00035	(W.S. 0.00003)					
826-6-2	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)					826-6-2
			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)	W.S. 2/36	W.S. 2/36	W.S. 0.00009～0.00011	(W.S. 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)	W.S. 3/35	W.S. 3/35	W.S. 0.00012～0.00060	(W.S. 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～	(Bivalves 0.000004) (Fish 0.000004) (Birds 0.000004)	W.S. 2/37	W.S. 2/37	W.S. 0.00010～0.0012	(W.S. 0.00008)					
			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)	W.S. 8/37	W.S. 8/37	W.S. 0.00003～0.00037	(W.S. 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)	W.S. 3/37	W.S. 3/37	W.S. 0.00008～0.00040	(W.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			
			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)	W.S. 10/36 C.S. 25/37	W.S. 10/36 C.S. 25/37	W.S. 0.00003～ 0.00033 C.S. 0.0001～ 0.020	(W.S. 0.00003) (C.S. 0.0001)					
826-7	Heptabromodiphenyl ethers	68928-80-3	2001													20/36	9/12	0.00021～0.038	(0.00020)					826-7
			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)	W.S. 2/36	W.S. 2/36	W.S. 0.0002～ 0.0004	(W.S. 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)	W.S. 2/35	W.S. 2/35	W.S. 0.0006	(W.S. 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～	(Bivalves 0.000005) (Fish 0.000005) (Birds 0.000005)	W.S. 1/37	W.S. 1/37	W.S. 0.0013	(W.S. 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)	W.S. 10/37	W.S. 10/37	W.S. 0.0002～ 0.0032	(W.S. 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)	W.S. 16/37	W.S. 16/37	W.S. 0.00009～ 0.0013	(W.S. 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)	W.S. 24/36	W.S. 24/36	W.S. 0.0001～ 0.0027	(W.S. 0.0001)					
826-7-1	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)					826-7-1
			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)									

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	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)									
826-7-1-1	2,2',3,4,4',5',6'-Heptabromodiphenyl ether (PBDE#175)		2014													W.S. 0/36	W.S. 0/36	W.S. －	(W.S. 0.0001)					826-7-1-1
			2015													W.S. 1/35	W.S. 1/35	W.S. 0.00028	(W.S. 0.00006)					
			2016													W.S. 0/37	W.S. 0/37	W.S. －	(W.S. 0.0005)					
			2017													W.S. 2/37	W.S. 2/37	W.S. 0.00006～0.00011	(W.S. 0.00006)					
			2018													W.S. 0/37	W.S. 0/37	W.S. －	(W.S. 0.00006)					
			2019													W.S. 7/36	W.S. 7/36	W.S. 0.00002～0.00009	(W.S. 0.00002)					
826-7-1-2	2,2',3,4,4',5',6'-Heptabromodiphenyl ether (PBDE#183)		2014													W.S. 1/36	W.S. 1/36	W.S. 0.0002	(W.S. 0.0002)					826-7-1-2
			2015													W.S. 2/35	W.S. 2/35	W.S. 0.00029～0.00042	(W.S. 0.00013)					
			2016													W.S. 1/37	W.S. 1/37	W.S. 0.0013	(W.S. 0.0010)					
			2017													W.S. 10/37	W.S. 10/37	W.S. 0.00006～0.00075	(W.S. 0.00006)					
			2018													W.S. 18/37	W.S. 18/37	W.S. 0.00004～0.00047	(W.S. 0.00004)					
			2019													W.S. 19/36	W.S. 19/36	W.S. 0.00003～0.00049	(W.S. 0.00003)					
826-8	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)									826-8
			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)									
			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)	W.S. 22/36	W.S. 22/36	W.S. 0.0001～0.0007	(W.S. 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)	W.S. 9/35	W.S. 9/35	W.S. 0.0004～0.0038	(W.S. 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～	(Bivalves 0.000006) (Fish 0.000006) (Birds 0.000006)	W.S. 18/37	W.S. 18/37	W.S. 0.0002～0.0016	(W.S. 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)	W.S. 28/37	W.S. 28/37	W.S. 0.00007～0.0057	(W.S. 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			
			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)	W.S. 34/37 C.S. 27/37	W.S. 34/37 C.S. 27/37	W.S. 0.00004～0.0013 C.S. 0.0006～0.0039	(W.S. 0.00004) (C.S. 0.0006)					
			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)	W.S. 32/36 C.S. 27/37	W.S. 32/36 C.S. 27/37	W.S. 0.0001～0.0026 C.S. 0.0006～0.0039	(W.S. 0.0001) (C.S. 0.0006)					
826-9	Nonabromodiphenyl ethers	63936-56-1	2005	0/3	0/1	－	(0.00072*)																	826-9
			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)					
			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)	W.S. 7/36	W.S. 7/36	W.S. 0.001～0.003	(W.S. 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)	W.S. 14/35	W.S. 14/35	W.S. 0.0011～0.012	(W.S. 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)	W.S. 28/37	W.S. 28/37	W.S. 0.0005～0.011	(W.S. 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)	W.S. 31/37	W.S. 31/37	W.S. 0.0002～0.040	(W.S. 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)	W.S. 31/37	W.S. 31/37	W.S. 0.0002～0.0030	(W.S. 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)	W.S. 34/36	W.S. 34/36	W.S. 0.0001～0.0031	(W.S. 0.0001)					
826-10	Decabromodiphenyl ether (PBDE#209)	1163-19-5	1977	0/15	0/7	－	(0.2～2.5)	0/15	0/7	－	(0.025～0.87)													826-10
			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)					

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	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)	W.S. 24/36	W.S. 24/36	W.S. 0.004～0.064	(W.S. 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)	W.S. 30/35	W.S. 30/35	W.S. 0.0008～0.061	(W.S. 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)	W.S. 35/37	W.S. 35/37	W.S. 0.001～0.086	(W.S. 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)	W.S. 34/37	W.S. 34/37	W.S. 0.0009～0.14	(W.S. 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)	W.S. 31/37	W.S. 31/37	W.S. 0.0008～0.019	(W.S. 0.0008)					
			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)	W.S. 32/36	W.S. 32/36	W.S. 0.0002～0.014	(W.S. 0.0001)					
	Polycarbamate	See *N*,*N*′-Ethylenebis(thiocarbamoylthiozinc) bis(*N*,*N*-dimethyldithiocarbamate)																						
	Polychlorinateddibenzo-*p*-dioxins	See Dioxins (Polychlorinateddibenzo-*p*-dioxins)																						
	Polychlorinateddibenzofurans	See Dioxins (Polychlorinateddibenzofurans)																						
827	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)									827
			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)									

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 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)									
				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)					

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)	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*)	W.S. 36/36	W.S. 36/36	W.S. 0.028～1.3	(W.S. 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*)	W.S. 35/35	W.S. 35/35	W.S. 0.017～0.95	(W.S. 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 0.0008～0.10	(Bivalves 0.000020*) (Fish 0.000020*) (Birds 0.000020*)	W.S. 37/37	W.S. 37/37	W.S. 0.016～1.3	(W.S. 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*)	W.S. 37/37	W.S. 37/37	W.S. 0.026～3.3	(W.S. 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*)	W.S. 37/37	W.S. 37/37	W.S. 0.020～0.75	(W.S. 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*)	W.S. 36/36	W.S. 36/36	W.S. 0.027～0.34	(W.S. 0.0008*)					
827-1	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)					827-1
			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)					

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	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)					
			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)	W.S. 36/36	W.S. 36/36	W.S. 0.0014～0.043	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.0014～0.024	(W.S. 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	Bivalves 1/3 Fish 10/19	Bivalves 0.0000051 Fish 0.0000012～0.000025	(Bivalves 0.0000009) (Fish 0.0000009)	W.S. 37/37	W.S. 37/37	W.S. 0.0015～0.038	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0012～0.037	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0014～0.049	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.0013～0.032	(W.S. 0.00002)					
827-2	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)					827-2
			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)					
			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)					

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	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)	W.S. 36/36	W.S. 36/36	W.S. 0.0082～0.13	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.0062～0.15	(W.S. 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	Bivalves 3/3 Fish 19/19	Bivalves 0.000010～0.000085 Fish 0.000004～0.00085	(Bivalves 0.000004) (Fish 0.000004)	W.S. 37/37	W.S. 37/37	W.S. 0.0038～0.26	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0087～0.25	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0071～0.22	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.0073～0.073	(W.S. 0.0002)					
827-3	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)					827-3
			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)					

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	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)	W.S. 36/36	W.S. 36/36	W.S. 0.006～0.3	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.0031～0.41	(W.S. 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 0.000011～0.0028	(Bivalves 0.000003) (Fish 0.000003) (Birds 0.000003)	W.S. 37/37	W.S. 37/37	W.S. 0.0044～0.54	(W.S. 0.0006)					
			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)	W.S. 37/37	W.S. 37/37	W.S. 0.0059～1.5	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0045～0.31	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.0065～0.072	(W.S. 0.0001)					
827-4	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)					827-4
			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)					

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	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)					
			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)	W.S. 36/36	W.S. 36/36	W.S. 0.0054～0.24	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.0027～0.26	(W.S. 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 0.000052～0.012	(Bivalves 0.0000041) (Fish 0.0000041) (Birds 0.0000041)	W.S. 37/37	W.S. 37/37	W.S. 0.0028～0.31	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0029～1.3	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0023～0.23	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.0036～0.046	(W.S. 0.0002)					
827-4-1	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)									827-4-1
			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)					

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	0.0000006～0.000019	(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)					
			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)	W.S. 36/36	W.S. 36/36	W.S. 0.000017～0.0019	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.000012～0.00062	(W.S. 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～	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 37/37	W.S. 37/37	W.S. 0.000013～0.0011	(W.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			
			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)	W.S. 37/37 C.S. 33/34	W.S. 37/37 C.S. 33/34	W.S. 0.00002～0.0013 C.S. 0.0000058～0.000067	(W.S. 0.000008) (C.S. 0.0000051)					
			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)	W.S. 37/37 C.S. 33/34	W.S. 37/37 C.S. 33/34	W.S. 0.000012～0.00045 C.S. 0.0000058～0.000067	(W.S. 0.000009) (C.S. 0.0000051)					
			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)	W.S. 36/36 C.S. 33/34	W.S. 36/36 C.S. 33/34	W.S. 0.00003～0.00039 C.S. 0.0000058～0.000067	(W.S. 0.00002) (C.S. 0.0000051)					
827-4-2	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)					827-4-2
			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)					
			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)					

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	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)	W.S. 29/36	W.S. 29/36	W.S. 0.000009～0.000096	(W.S. 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)	W.S. 18/35	W.S. 18/35	W.S. 0.00001～0.00004	(W.S. 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～	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 27/37	W.S. 27/37	W.S. 0.00001～0.00010	(W.S. 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)	W.S. 32/37	W.S. 32/37	W.S. 0.00001～0.0001	(W.S. 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)	W.S. 17/37	W.S. 17/37	W.S. 0.000009～0.000030	(W.S. 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 0.000010	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 26/36	W.S. 26/36	W.S. 0.000010～0.000040	(W.S. 0.000009)					
827-5	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)					827-5
			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)					
			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)					

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	0.0000090～0.0013	(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)	W.S. 36/36	W.S. 36/36	W.S. 0.0015～0.64	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.0013～0.094	(W.S. 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	Bivalves 3/3 Fish 19/19	Bivalves 0.00011～0.0039 Fish 0.00015～0.044	(Bivalves 0.0000028) (Fish 0.0000028)	W.S. 37/37	W.S. 37/37	W.S. 0.0013～0.15	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0009～0.25	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0006～0.067	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.0015～0.039	(W.S. 0.00009)					
827-5-1	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)					827-5-1
			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)					

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	0.00000013～0.000033	(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)	W.S. 36/36	W.S. 36/36	W.S. 0.000035～0.012	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.000024～0.0022	(W.S. 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	Bivalves 3/3 Fish 19/19	Bivalves 0.0000057～0.00018 Fish 0.000015～0.0015	(Bivalves 0.0000007) (Fish 0.0000007)	W.S. 37/37	W.S. 37/37	W.S. 0.00003～0.0036	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00003～0.0063	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00002～0.0015	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.00003～0.001	(W.S. 0.00002)					
827-5-2	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)					827-5-2
			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)					

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	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)					
			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)	W.S. 31/36	W.S. 31/36	W.S. 0.00001～0.00088	(W.S. 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)	W.S. 29/35	W.S. 29/35	W.S. 0.000010～0.00019	(W.S. 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～	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 34/37	W.S. 34/37	W.S. 0.000008～0.00032	(W.S. 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)	W.S. 34/37	W.S. 34/37	W.S. 0.00001～0.00058	(W.S. 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)	W.S. 29/37	W.S. 29/37	W.S. 0.000009～0.00012	(W.S. 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)	W.S. 24/36	W.S. 24/36	W.S. 0.00002～0.00010	(W.S. 0.00002)					
827-5-3	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)					827-5-3
			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)					
			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)					

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	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)	W.S. 36/36	W.S. 36/36	W.S. 0.00010～0.045	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.00007～0.0062	(W.S. 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 0.0000009)	W.S. 37/37	W.S. 37/37	W.S. 0.00007～0.011	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00006～0.021	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00005～0.0043	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.00007～0.0029	(W.S. 0.00001)					
827-5-4	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)					827-5-4
			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)					
			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)					

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	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)	W.S. 30/36	W.S. 30/36	W.S. 0.000011～0.00057	(W.S. 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)	W.S. 26/35	W.S. 26/35	W.S. 0.000009～0.00013	(W.S. 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～	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 31/37	W.S. 31/37	W.S. 0.000009～0.00035	(W.S. 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)	W.S. 31/37	W.S. 31/37	W.S. 0.000012～0.00039	(W.S. 0.000008)					
			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)	W.S. 30/37	W.S. 30/37	W.S. 0.000009～0.00010	(W.S. 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)	W.S. 16/36	W.S. 16/36	W.S. 0.00002～0.00006	(W.S. 0.00002)					
827-5-5	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)									827-5-5
			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)									

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	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)					
			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)	W.S. 29/36	W.S. 29/36	W.S. 0.000009 ～0.000063	(W.S. 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)	W.S. 2/35	W.S. 2/35	W.S. 0.00003	(W.S. 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			
			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～	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 26/37	W.S. 26/37	W.S. 0.000008～0.000085	(W.S. 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)	W.S. 24/37	W.S. 24/37	W.S. 0.000009～0.000048	(W.S. 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)	W.S. 17/37	W.S. 17/37	W.S. 0.000009～0.000036	(W.S. 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)	W.S. 27/36	W.S. 27/36	W.S. 0.00001～0.00006	(W.S. 0.00001)					
827-6	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)					827-6
			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)	W.S. 36/36	W.S. 36/36	W.S. 0.00057～0.21	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.00051～0.065	(W.S. 0.00012)					

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			
			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	Bivalves 3/3 Fish 19/19	Bivalves 0.00017～0.0031 Fish 0.00037～0.042	(Bivalves 0.000002) (Fish 0.000002)	W.S. 37/37	W.S. 37/37	W.S. 0.0005～0.054	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00037～0.078	(W.S. 0.00008)					
			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)	W.S. 37/37	W.S. 37/37	W.S. 0.00028～0.055	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.00063～0.079	(W.S. 0.00005)					
827-6-1	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)					827-6-1
			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)					
			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)					

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	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)	W.S. 32/36	W.S. 32/36	W.S. 0.00001～0.0015	(W.S. 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)	W.S. 27/35	W.S. 27/35	W.S. 0.00002～0.00034	(W.S. 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 [illegible]	Bivalves 3/3 Fish 19/19 [illegible]	Bivalves 0.0000030～0.000033 Fish 0.0000043～0.00058 [illegible]	(Bivalves 0.0000007) (Fish 0.0000007) [illegible]	W.S. 30/37	W.S. 30/37	W.S. 0.00002～0.00041	(W.S. 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)	W.S. 31/37	W.S. 31/37	W.S. 0.00002～0.00083	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00001～0.00037	(W.S. 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)	W.S. 29/36	W.S. 29/36	W.S. 0.00002～0.00051	(W.S. 0.00002)					
827-6-2	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)					827-6-2
			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)					
			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)					

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	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)	W.S. 28/36	W.S. 28/36	W.S. 0.000009～0.00035	(W.S. 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)	W.S. 18/35	W.S. 18/35	W.S. 0.00001～0.00006	(W.S. 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～	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 28/37	W.S. 28/37	W.S. 0.000009～0.00019	(W.S. 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)	W.S. 31/37	W.S. 31/37	W.S. 0.00001～0.00020	(W.S. 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)	W.S. 23/37	W.S. 23/37	W.S. 0.000008～0.00019	(W.S. 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)	W.S. 29/36	W.S. 29/36	W.S. 0.00001～0.00035	(W.S. 0.00001)					
827-6-3	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)					827-6-3
			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. 0.0000009～0.00096 C.S. 0.000005～0.00015	(W.S. 0.000005) (C.S. 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			
			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)					
			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)	W.S. 31/36	W.S. 31/36	W.S. 0.000009～0.00074	(W.S. 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)	W.S. 26/35	W.S. 26/35	W.S. 0.000010～0.00015	(W.S. 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	Bivalves 3/3 Fish 19/19	Bivalves 0.0000021～0.000027 Fish 0.0000035～0.00030	(Bivalves 0.0000007) (Fish 0.0000007)	W.S. 32/37	W.S. 32/37	W.S. 0.000009～0.00021	(W.S. 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)	W.S. 32/37	W.S. 32/37	W.S. 0.000010～0.00036	(W.S. 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)	W.S. 27/37	W.S. 27/37	W.S. 0.000009～0.00014	(W.S. 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)	W.S. 32/36	W.S. 32/36	W.S. 0.00001～0.00022	(W.S. 0.00001)					
827-6-4	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)									827-6-4
			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)	W.S. 8/36	W.S. 8/36	W.S. 0.000006～0.000013	(W.S. 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)	W.S. 1/35	W.S. 1/35	W.S. 0.000033	(W.S. 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～	(Bivalves 0.0000007) (Fish 0.0000007) (Birds 0.0000007)	W.S. 0/37	W.S. 0/37	W.S. －	(W.S. 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)	W.S. 1/37	W.S. 1/37	W.S. 0.000008	(W.S. 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)	W.S. 1/37	W.S. 1/37	W.S. 0.000010	(W.S. 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)	W.S. 3/36	W.S. 3/36	W.S. 0.00001～0.00002	(W.S. 0.00001)					
827-7	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)					827-7
			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)					
			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)	W.S. 36/36	W.S. 36/36	W.S. 0.00011～0.057	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.00008～0.040	(W.S. 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 0.0010～0.013	(Bivalves 0.0000009) (Fish 0.0000009) (Birds 0.0000009)	W.S. 37/37	W.S. 37/37	W.S. 0.00014～0.033	(W.S. 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	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)	W.S. 37/37 C.S. 34/34	W.S. 37/37 C.S. 34/34	W.S. 0.00011～0.021 C.S. 0.000014～0.0017	(W.S. 0.00005) (C.S. 0.0000098)					
			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)	W.S. 36/37 C.S. 34/34	W.S. 36/37 C.S. 34/34	W.S. 0.00013～0.036 C.S. 0.000014～0.0017	(W.S. 0.00006) (C.S. 0.0000098)					
			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)	W.S. 36/36 C.S. 34/34	W.S. 36/36 C.S. 34/34	W.S. 0.00017～0.047 C.S. 0.000014～0.0017	(W.S. 0.00005) (C.S. 0.0000098)					
827-7-1	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)					827-7-1
			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)					
			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)	W.S. 35/36	W.S. 35/36	W.S. 0.000009～0.0027	(W.S. 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)	W.S. 33/35	W.S. 33/35	W.S. 0.00001～0.0023	(W.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			
			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	Bivalves 3/3 Fish 19/19	Bivalves 0.0000011～0.000017 Fish 0.0000082～0.0017	(Bivalves 0.0000008) (Fish 0.0000008)	W.S. 36/37	W.S. 36/37	W.S. 0.00002～0.0022	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00001～0.0013	(W.S. 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)	W.S. 36/37	W.S. 36/37	W.S. 0.000011～0.0023	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.00001～0.0028	(W.S. 0.00001)					
827-7-2	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)					827-7-2
			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)	W.S. 35/36	W.S. 35/36	W.S. 0.00002～0.010	(W.S. 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)	W.S. 35/35	W.S. 35/35	W.S. 0.000014～0.0072	(W.S. 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	Bivalves 3/3 Fish 19/19	Bivalves 0.0000046～0.000099 Fish 0.000025～0.0057	(Bivalves 0.0000007) (Fish 0.0000007)	W.S. 37/37	W.S. 37/37	W.S. 0.000015～0.0064	(W.S. 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			
			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)	W.S. 37/37 C.S. 32/34	W.S. 37/37 C.S. 32/34	W.S. 0.00001～0.0038 C.S. 0.0000095～0.000052	(W.S. 0.00001) (C.S. 0.0000083)					
			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)	W.S. 37/37 C.S. 32/34	W.S. 37/37 C.S. 32/34	W.S. 0.000017～0.0067 C.S. 0.0000095～0.000052	(W.S. 0.000009) (C.S. 0.0000083)					
			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)	W.S. 36/36 C.S. 32/34	W.S. 36/36 C.S. 32/34	W.S. 0.00002～0.0084 C.S. 0.0000095～0.000052	(W.S. 0.00001) (C.S. 0.0000083)					
827-7-3	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)					827-7-3
			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)	W.S. 11/36	W.S. 11/36	W.S. 0.000009～0.000039	(W.S. 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)	W.S. 6/35	W.S. 6/35	W.S. 0.000009～0.000051	(W.S. 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～	(Bivalves 0.0000006) (Fish 0.0000006) (Birds 0.0000006)	W.S. 7/37	W.S. 7/37	W.S. 0.00001～0.00004	(W.S. 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)	W.S. 9/37	W.S. 9/37	W.S. 0.00001～0.000024	(W.S. 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)	W.S. 6/37	W.S. 6/37	W.S. 0.000009～0.000032	(W.S. 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)	W.S. 16/36	W.S. 16/36	W.S. 0.00001～0.00005	(W.S. 0.00001)					
827-8	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)					827-8
			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)					
			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)					

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	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)	W.S. 32/36 C.S. 32/36	W.S. 32/36 C.S. 32/36	W.S. 0.00004～0.0060 C.S. 0.00004～0.0060	(W.S. 0.00004) (C.S. 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)	W.S. 29/35 C.S. 29/35	W.S. 29/35 C.S. 29/35	W.S. 0.00005～0.0045 C.S. 0.00005～0.0045	(W.S. 0.00004) (C.S. 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 0.00026～0.0035	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 21/37 C.S. 21/37	W.S. 21/37 C.S. 21/37	W.S. 0.0001～0.0041 C.S. 0.0001～0.0041	(W.S. 0.0001) (C.S. 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)	W.S. 21/37 C.S. 21/37	W.S. 21/37 C.S. 21/37	W.S. 0.00009～0.0024 C.S. 0.00009～0.0024	(W.S. 0.00009) (C.S. 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)	W.S. 21/37 C.S. 21/37	W.S. 21/37 C.S. 21/37	W.S. 0.00006～0.0043 C.S. 0.00006～0.0043	(W.S. 0.00006) (C.S. 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)	W.S. 6/37 C.S. 6/37	W.S. 6/37 C.S. 6/37	W.S. 0.000009～0.000032 C.S. 0.000009～0.000032	(W.S. 0.000008) (C.S. 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)	W.S. 22/36 C.S. 22/36	W.S. 22/36 C.S. 22/36	W.S. 0.00007～0.0056 C.S. 0.00007～0.0056	(W.S. 0.00007) (C.S. 0.00007)					
827-9	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 Fish 16/16 Birds 1/1	Bivalves & Fish 34/35 Fish 16/16 Birds 1/1	Bivalves & Fish 0.0000052～0.00040 Fish 0.000037～0.0022 Birds 0.0094	(Bivalves & Fish 0.00000008) (Fish 0.000001) (Birds 0.000001)	17/17 W.S. 33/35 C.S. 33/37	17/17 W.S. 33/35 C.S. 33/37	0.000018～0.00042 W.S. 0.00004～0.0056 C.S. 0.00004～0.0016	(0.000002) (W.S. 0.00003) (C.S. 0.00003)					827-9
			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 Fish 19/19 Birds 2/2	Bivalves & Fish 35/36 Fish 19/19 Birds 2/2	Bivalves & Fish 0.0000044～0.00038 Fish 0.000009～0.0024 Birds 0.00017～0.00023	(Bivalves & Fish 0.00000008～0.0000003) (Fish 0.000002) (Birds 0.000002)	15/15 W.S. 36/36 C.S. 32/36	15/15 W.S. 36/36 C.S. 32/36	0.000019～0.0048 W.S. 0.00002～0.0063 C.S. 0.00002～0.00064	(0.000002～0.000005) (W.S. 0.00002) (C.S. 0.00002)					
			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 W.S. 35/35 C.S. 33/34	34/34 W.S. 35/35 C.S. 33/34	0.000012～0.0010 W.S. 0.000014～0.00021 C.S. 0.000017～0.00023	(0.00001) (W.S. 0.000013) (C.S. 0.000013)					
			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. 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)					
			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. 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)					
			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. 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)					
			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. 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)					
			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)									

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	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 0/7 Fish 17/17 Birds 2/2	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 2/7 Fish 18/18 Birds 2/2	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)					
			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)	W.S. 13/36	W.S. 13/36	W.S. 0.00004～ 0.00021	(W.S. 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)	W.S. 4/35	W.S. 4/35	W.S. 0.00008～ 0.00025	(W.S. 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～	(Bivalves 0.000001) (Fish 0.000001) (Birds 0.000001)	W.S. 2/37	W.S. 2/37	W.S. 0.0001～ 0.0002	(W.S. 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)	W.S. 14/37	W.S. 14/37	W.S. 0.00003～ 0.00012	(W.S. 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)	W.S. 9/37	W.S. 9/37	W.S. 0.00003～ 0.00022	(W.S. 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)	W.S. 12/36	W.S. 12/36	W.S. 0.00003～ 0.00020	(W.S. 0.00003)					
827-10	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)					827-10
			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)					
			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)					

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	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)	W.S. 31/36	W.S. 31/36	W.S. 0.00001～0.00013	(W.S. 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)	W.S. 5/35	W.S. 5/35	W.S. 0.00007～0.00025	(W.S. 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	Bivalves 1/3 Fish 19/19	Bivalves 0.0000055 Fish 0.0000007～0.000033	(Bivalves 0.0000006) (Fish 0.0000006)	W.S. 3/37	W.S. 3/37	W.S. 0.00007～0.00009	(W.S. 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)	W.S. 23/37	W.S. 23/37	W.S. 0.00002～0.00008	(W.S. 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)	W.S. 13/37	W.S. 13/37	W.S. 0.00002～0.00005	(W.S. 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)	W.S. 13/36	W.S. 13/36	W.S. 0.00002～0.00013	(W.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			
828	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)													828
828-1	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)					828-1
			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)	W.S. 12/37	W.S. 12/37	W.S. 0.0002～0.0003	(W.S. 0.0002)					
828-2	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)					828-2
			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)					

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 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)	W.S. 2/37 C.S. 0/37	W.S. 2/37 C.S. 0/37	W.S. 0.0002 C.S. －	(W.S. 0.0002) (C.S. 0.0002)					
828-3	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)					828-3
			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)	W.S. 0/37	W.S. 0/37	W.S. －	(W.S. 0.0002)					
829	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)									829
			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)									

Number	Name	CAS registry number	Year (FY)	Surface water (μg/L) Detection Frequency Sample	Surface water Detection Frequency Site	Surface water Detection range	Surface water Detection limit	Sediment (μg/g-dry) Detection Frequency Sample	Sediment Detection Frequency Site	Sediment Detection range	Sediment Detection limit	Wildlife (Bivalves, Fish, Birds, Plankton) (μg/g-wet) Detection Frequency Sample	Wildlife Detection Frequency Site	Wildlife Detection range	Wildlife Detection limit	Air (ng/m^3) Detection Frequency Sample	Air Detection Frequency Site	Air Detection range	Air Detection limit	Others Detection Frequency Sample	Others Detection Frequency Site	Others Detection range	Others Detection limit	Number
			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)													W.S. 36/36	W.S. 36/36	W.S. 0.0054～ 1.6	(W.S. 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 [illegible]	(Bivalves 0.000019*) (Fish 0.000019*) [illegible]	W.S. 37/37	W.S. 37/37	W.S. 0.0090～ 0.66	(W.S. 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*)	W.S. 37/37	W.S. 37/37	W.S. 0.0070～ 0.92	(W.S. 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*)	W.S. 37/37	W.S. 37/37	W.S. 0.0053～ 0.59	(W.S. 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*)	W.S. 36/36	W.S. 36/36	W.S. 0.0065～ 1.1	(W.S. 0.0002*)					
	(Total of Cl_2 - Cl_8)		(2014)													W.S. 36/36	W.S. 36/36	W.S. 0.0032～ 1.5	(W.S. 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*)									
829-1	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)													829-1
			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													W.S. 36/36	W.S. 36/36	W.S. 0.0023～ 0.98	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0045～ 0.52	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0031～ 0.72	(W.S. 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	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)	W.S. 37/37 C.S. 36/36	W.S. 37/37 C.S. 36/36	W.S. 0.0029～0.45 C.S. 0.0032～0.099	(W.S. 0.00004) (C.S. 0.000067)					
			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)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0040～0.800 C.S. 0.0026～0.047	(W.S. 0.00003) (C.S. 0.00021)					
829-1-1	1-Chloronaphthalene	90-13-1	1977	0/6	0/2	－	(0.3～3)	0/6	0/2	－	(0.012～0.3)													829-1-1
			1986	0/33	0/11	－	(0.05)	0/30	0/10	－	(0.003)													
			2007													12/24	5/8	0.16～0.73	(0.15)					
829-1-2	2-Chloronaphthalene	91-58-7	1977	0/6	0/2	－	(0.3～3)	0/6	0/2	－	(0.012～0.3)													829-1-2
			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)					
829-2	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)													829-2
			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													W.S. 36/36	W.S. 36/36	W.S. 0.0010～0.24	(W.S. 0.0004)					
			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	Bivalves 2/3 Fish 17/19	Bivalves 0.000005～0.000085 Fish 0.000002～0.000029	(Bivalves 0.000002) (Fish 0.000002)	W.S. 37/37	W.S. 37/37	W.S. 0.0023～0.16	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0019～0.18	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0012～0.19	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.0013～0.25	(W.S. 0.00002)					
829-2-1	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)									829-2-1
			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)					

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			
829-2-2	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)									829-2-2
			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)					
829-3	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)													829-3
			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													W.S. 36/36	W.S. 36/36	W.S. 0.0011～0.35	(W.S. 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	Bivalves 2/3 Fish 11/19	Bivalves 0.000010～0.00020 Fish 0.000002～0.000046	(Bivalves 0.000002) (Fish 0.000002)	W.S. 37/37	W.S. 37/37	W.S. 0.00070～0.039	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.0012～0.15	(W.S. 0.00002)					
			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)	W.S. 37/37	W.S. 37/37	W.S. 0.00068～0.034	(W.S. 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)	W.S. 36/36	W.S. 36/36	W.S. 0.00069～0.030	(W.S. 0.00002)					
829-3-1	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)									829-3-1
			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)					
829-4	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)													829-4
			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													W.S. 36/36	W.S. 36/36	W.S. 0.0007～1.0	(W.S. 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			
			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 [illegible]	Bivalves 3/3 Fish 18/19 [illegible]	Bivalves 0.000002～0.00033 Fish 0.000002～0.00013 [illegible]	(Bivalves 0.000002) (Fish 0.000002) [illegible]	W.S. 37/37 C.S. 36/36	W.S. 37/37 C.S. 36/36	W.S. 0.0003～0.042 C.S. 0.000059～0.0023	(W.S. 0.0001) (C.S. 0.000024)					
			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)	W.S. 37/37 C.S. 36/36	W.S. 37/37 C.S. 36/36	W.S. 0.00054～0.12 C.S. 0.000059～0.0023	(W.S. 0.00004) (C.S. 0.000024)					
			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)	W.S. 37/37 C.S. 36/36	W.S. 37/37 C.S. 36/36	W.S. 0.00040～0.033 C.S. 0.000053～0.0094	(W.S. 0.00003) (C.S. 0.000024)					
			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)	W.S. 36/36 C.S. 36/36	W.S. 36/36 C.S. 36/36	W.S. 0.0004～0.028 C.S. 0.000053～0.0094	(W.S. 0.00004) (C.S. 0.000024)					
829-4-1	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)									829-4-1
			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)					
829-4-2	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)									829-4-2
			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)					
829-4-3	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)									829-4-3
			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)					
829-4-4	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)									829-4-4
			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)					
829-4-5	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)									829-4-5
			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)					
829-5	Pentachloronaphthalenes	1321-64-8	2001	1/24	1/8	0.000013	(0.0000080)	22/24	8/8	0.0000020～0.0011	(0.0000020)													829-5
			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)									

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	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													W.S. 36/36	W.S. 36/36	W.S. 0.00006～0.050	(W.S. 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～	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/37 C.S.	W.S. 36/37 C.S.	W.S. 0.00009～0.0077 C.S.	(W.S. 0.00006) C.S.					
			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)	W.S. 37/37 C.S.	W.S. 37/37 C.S.	W.S. 0.00005～0.014 C.S.	(W.S. 0.00002) C.S.					
			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)	W.S. 37/37 C.S.	W.S. 37/37 C.S.	W.S. 0.00004～0.011 C.S.	(W.S. 0.00001) C.S.					
			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)	W.S. 36/36 C.S.	W.S. 36/36 C.S.	W.S. 0.00005～0.0057 C.S.	(W.S. 0.00003) C.S.					
829-5-1	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)									829-5-1
			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)					
829-5-2	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)									829-5-2
			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)					
829-5-3	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)									829-5-3
			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)					
829-6	Hexachloronaphthalenes	1335-87-1	2001	0/24	0/8	－	(0.000019)	18/24	6/8	0.000005～0.00018	(0.000004)													829-6
			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)					

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													W.S. 32/36	W.S. 32/36	W.S. 0.00002～0.00099	(W.S. 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～	(Bivalves 0.000002) (Fish 0.000002) (Birds 0.000002)	W.S. 36/37	W.S. 36/37	W.S. 0.00002～0.0012	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00001～0.0012	(W.S. 0.00001)					
			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)	W.S. 36/37	W.S. 36/37	W.S. 0.00001～0.0025	(W.S. 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)	W.S. 33/36	W.S. 33/36	W.S. 0.00003～0.0011	(W.S. 0.00003)					
829-6-1	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)									829-6-1
			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)					
829-6-2	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)									829-6-2
			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)					
829-6-3	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)									829-6-3
			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)					
829-7	Heptachloronaphthalenes	32241-08-0	2001	0/24	0/8	－	(0.0000080)	12/24	4/8	0.000005～0.000066	(0.000005)													829-7
			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													W.S. 22/36	W.S. 22/36	W.S. 0.00002～0.00019	(W.S. 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)	W.S. 18/37	W.S. 18/37	W.S. 0.00002～0.00011	(W.S. 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)	W.S. 12/37	W.S. 12/37	W.S. 0.00003～0.00010	(W.S. 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)	W.S. 29/37	W.S. 29/37	W.S. 0.000010～0.000065	(W.S. 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			
			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)	W.S. 22/36	W.S. 22/36	W.S. 0.00002～0.00008	(W.S. 0.00002)					
829-7-1	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)									829-7-1
			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)					
829-8	Octachloronaphthalene	2234-13-1	2001	0/24	0/8	－	(0.000020)	6/24	3/8	0.000006～0.000075	(0.000005)													829-8
			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													W.S. 12/36	W.S. 12/36	W.S. 0.00003～0.00039	(W.S. 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)	W.S. 10/37	W.S. 10/37	W.S. 0.00002～0.00036	(W.S. 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)	W.S. 33/37	W.S. 33/37	W.S. 0.00001～0.00015	(W.S. 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)	W.S. 13/37	W.S. 13/37	W.S. 0.00002～0.00012	(W.S. 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)	W.S. 12/36	W.S. 12/36	W.S. 0.00002～0.00014	(W.S. 0.00002)					
830	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)									830
			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 Bivalves 0/10 Fish 0/30 Birds 0/6	Fish 2/19 Bivalves 0/2 Fish 0/6 Birds 0/1	Fish 0.0003～0.003 Bivalves － Fish － Birds －	(Fish 0.0002～0.1) (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)									
830-1	Monochloroterphenyls		2000													21/24	7/8	0.00092～0.0060	(0.0001)					830-1
			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)									
830-1-1	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)									830-1-1
830-1-2	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)									830-1-2
830-2	Dichloroterphenyls		2000													4/24	3/8	0.00055～0.0011	(0.00053)					830-2
			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)									
830-2-1	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)									830-2-1
830-2-2	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)									830-2-2
830-3	Trichloroterphenyls		2000													0/24	0/8	－	(0.0073)					830-3
			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)									
830-3-1	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)									830-3-1
830-4	Tetrachloroterphenyls		2000													0/24	0/8	－	(0.0072)					830-4
			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)									
830-4-1	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)									830-4-1
830-4-2	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)									830-4-2
830-5	Pentachloroterphenyls		2000													0/24	0/8	－	(0.0010)					830-5
			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)									
830-5-1	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)									830-5-1
830-6	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)									830-6
830-7	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)									830-7

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			
830-8	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)									830-8
830-9	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)									830-9
830-10	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)									830-10
830-11	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)									830-11
830-12	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)									830-12
830-13	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)									830-13
830-14	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)									830-14
831	Polyethylene glycol fatty acid ester	25322-68-3	1982	0/30	0/10	—	(10)																	831
832	Polyfluoroacetic acids																							832
832-1	Monofluoroacetic acid	144-49-0	2019	0/28	0/28	—	(0.00076)																	832-1
832-2	Difluoroacetic acid	381-73-7	2019	0/28	0/28	—	(0.00032)																	832-2
832-3	Trifluoroacetic acid	76-05-1	2018													17/39	8/13	27～120	(24)					832-3
			2019	28/28	28/28	0.047～0.42	(0.0082)																	
833	Polyoxyethylenealkylamides	Unknown	1983	0/27	0/9	—	(4)	0/27	0/9	—	(0.7)													833
834	Polyoxyethylenealkylamines	Unknown	1983	0/27	0/9	—	(5)	0/27	0/9	—	(0.5)													834
835	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)													835
			1998	7/45	3/15	3.5～22	(3)	29/42	10/14	0.086～12	(0.082)													
835-1	Poly(oxyethylene) alkyl ethers	Unknown	1982	0/30	0/10	—	(5)	19/30	9/10	0.22～1.0	(0.2)													835-1
835-1-1	Poly(oxyethylene) nonyl ethers	39587-22-9																						835-1-1
	(polymerisation degree 1-15)*******		(2017)	1/25	1/25	0.058	(0.023*)																	
835-1-1-1	Mono(oxyethylene) nonyl ether*******		2017	0/25	0/25	—	(0.0052)																	835-1-1-1
835-1-1-2	Di(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0044	(0.0022)																	835-1-1-2
835-1-1-3	Tri(oxyethylene) nonyl ether*******		2017	0/25	0/25	—	(0.00084)																	835-1-1-3
835-1-1-4	Tetra(oxyethylene) nonyl ether*******		2017	0/25	0/25	—	(0.0013)																	835-1-1-4
835-1-1-5	Pemta(oxyethylene) nonyl ether*******		2017	0/25	0/25	—	(0.0017)																	835-1-1-5
835-1-1-6	Hexa(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0023	(0.0014)																	835-1-1-6
835-1-1-7	Hepta(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0038	(0.0016)																	835-1-1-7
835-1-1-8	Octa(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0059	(0.0016)																	835-1-1-8
835-1-1-9	Nona(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0057	(0.00095)																	835-1-1-9
835-1-1-10	Deca(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0067	(0.0011)																	835-1-1-10
835-1-1-11	Undeca(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0046	(0.0013)																	835-1-1-11
835-1-1-12	Dodeca(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.005	(0.0012)																	835-1-1-12
835-1-1-13	Trideca(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0038	(0.00081)																	835-1-1-13
835-1-1-14	Tetradeca(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.0041	(0.0011)																	835-1-1-14
835-1-1-15	Pemtadeca(oxyethylene) nonyl ether*******		2017	1/25	1/25	0.01	(0.0012)																	835-1-1-15
835-1-2	Poly(oxyethylene) ethers	26183-52-8																						835-1-2
	(polymerisation degree 1-15)*******		(2017)	2/25	2/25	0.059～0.098	(0.023*)																	
835-1-2-1	Mono(oxyethylene) decyl ether*******		2017	0/25	0/25	—	(0.0052)																	835-1-2-1
835-1-2-2	Di(oxyethylene) decyl ether*******		2017	1/25	1/25	0.0081	(0.0012)																	835-1-2-2
835-1-2-3	Tri(oxyethylene) decyl ether*******		2017	3/25	3/25	0.00099～0.0013	(0.00084)																	835-1-2-3
835-1-2-4	Tetra(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0017～0.003	(0.0013)																	835-1-2-4
835-1-2-5	Pemta(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0027～0.0046	(0.0017)																	835-1-2-5
835-1-2-6	Hexa(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0035～0.0037	(0.0014)																	835-1-2-6
835-1-2-7	Hepta(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0053～0.0062	(0.0016)																	835-1-2-7
835-1-2-8	Octa(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0078～0.01	(0.0016)																	835-1-2-8
835-1-2-9	Nona(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0056～0.0082	(0.00095)																	835-1-2-9
835-1-2-10	deca(oxyethylene) decyl ether*******		2017	2/25	2/25	0.005～0.0087	(0.0011)																	835-1-2-10
835-1-2-11	undeca(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0047～0.0076	(0.0013)																	835-1-2-11
835-1-2-12	卞deca(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0051～0.0082	(0.0012)																	835-1-2-12
835-1-2-13	Trideca(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0038～0.0075	(0.00081)																	835-1-2-13
835-1-2-14	Tetradeca(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0028～0.0077	(0.0011)																	835-1-2-14

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			
835-1-2-15	Pemtadeca(oxyethylene) decyl ether*******		2017	2/25	2/25	0.0069～0.024	(0.0012)																	835-1-2-15
835-1-3	Poly(oxyethylene) ethers	34398-01-1																						835-1-3
	(polymerisation degree 1-15)*******		(2017)	1/25	1/25	0.025	(0.023*)																	
835-1-3-1	Mono(oxyethylene) undecyl ether*******		2017	0/25	0/25	－	(0.0052)																	835-1-3-1
835-1-3-2	Di(oxyethylene) undecyl ether*******		2017	0/25	0/25	－	(0.0022)																	835-1-3-2
835-1-3-3	Tri(oxyethylene) undecyl ether*******		2017	0/25	0/25	－	(0.00084)																	835-1-3-3
835-1-3-4	Tetra(oxyethylene) undecyl ether*******		2017	0/25	0/25	－	(0.0013)																	835-1-3-4
835-1-3-5	Pemta(oxyethylene) undecyl ether*******		2017	0/25	0/25	－	(0.0017)																	835-1-3-5
835-1-3-6	Hexa(oxyethylene) undecyl ether*******		2017	0/25	0/25	－	(0.0014)																	835-1-3-6
835-1-3-7	Hepta(oxyethylene) undecyl ether*******		2017	0/25	0/25	－	(0.0016)																	835-1-3-7
835-1-3-8	Octa(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0018	(0.0016)																	835-1-3-8
835-1-3-9	Nona(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0017	(0.00095)																	835-1-3-9
835-1-3-10	deca(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0017	(0.0011)																	835-1-3-10
835-1-3-11	undeca(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0023	(0.0013)																	835-1-3-11
835-1-3-12	下deca(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0029	(0.0012)																	835-1-3-12
835-1-3-13	Trideca(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0034	(0.00081)																	835-1-3-13
835-1-3-14	Tetradeca(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0024	(0.0011)																	835-1-3-14
835-1-3-15	Pemtadeca(oxyethylene) undecyl ether*******		2017	1/25	1/25	0.0067	(0.0012)																	835-1-3-15
835-1-1	Poly(oxyethylene) dodecyl ethers	9002-92-0																						835-1-1
	(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*)													
835-1-4-1	Mono(oxyethylene) dodecyl ether		2017	24/25	24/25	0.0014～0.045	(0.00094)																	835-1-4-1
835-1-4-2	Di(oxyethylene) dodecyl ether		2005	0/15	0/5	－	(0.029)																	835-1-4-2
			2006					0/15	0/5	－	(0.012)													
			2017	24/25	24/25	0.0012～0.034	(0.0012)																	
835-1-4-3	Tri(oxyethylene) dodecyl ether		2005	0/15	0/5	－	(0.017)																	835-1-4-3
			2006					0/15	0/5	－	(0.017)													
			2017	24/25	24/25	0.00085～0.038	(0.00084)																	
835-1-4-4	Tetra(oxyethylene) dodecyl ether		2005	1/16	1/6	0.050	(0.021)																	835-1-4-4
			2006					0/15	0/5	－	(0.018)													
			2017	22/25	22/25	0.00087～0.038	(0.00073)																	
835-1-4-5	Penta(oxyethylene) dodecyl ether		2005	4/18	2/6	0.028～0.10	(0.019)																	835-1-4-5
			2006					0/15	0/5	－	(0.016)													
			2017	15/20	15/20	0.003～0.055	(0.0017)																	
835-1-4-6	Hexa(oxyethylene) dodecyl ether		2005	3/13	2/5	0.018～0.055	(0.018)																	835-1-4-6
			2006					4/15	2/5	0.013～0.017	(0.012)													
			2017	17/25	17/25	0.0018～0.076	(0.0016)																	
835-1-4-7	Hepta(oxyethylene) dodecyl ether		2005	6/24	2/8	0.021～0.45	(0.018)																	835-1-4-7
			2006					7/15	4/5	0.012～0.020	(0.011)													
			2017	16/22	16/22	0.0022～0.12	(0.0016)																	
835-1-4-8	Octa(oxyethylene) dodecyl ether		2005	6/15	3/5	0.016～0.088	(0.016)																	835-1-4-8
			2006					8/15	4/5	0.010～0.031	(0.0096)													
			2017	19/25	19/25	0.0023～0.18	(0.0016)																	
835-1-4-9	Nona(oxyethylene) dodecyl ether		2005	6/15	2/5	0.029～0.13	(0.023)																	835-1-4-9
			2006					10/15	4/5	0.0097～0.064	(0.0087)													
			2017	19/25	19/25	0.0011～0.2	(0.00095)																	
835-1-4-10	Deca(oxyethylene) dodecyl ether		2005	8/15	3/5	0.022～0.13	(0.019)																	835-1-4-10
			2006					11/15	4/5	0.011～0.11	(0.0087)													
			2017	18/25	18/25	0.0015～0.3	(0.0011)																	
835-1-4-11	Undecan(oxyethylene) dodecyl ether		2005	8/15	3/5	0.023～0.13	(0.020)																	835-1-4-11
			2006					11/15	4/5	0.011～0.16	(0.0073)													
			2017	18/25	18/25	0.0021～0.33	(0.0013)																	
835-1-4-12	Dodeca(oxyethylene) dodecyl ether		2005	9/15	3/5	0.021～0.14	(0.020)																	835-1-4-12
			2006					11/15	4/5	0.012～0.21	(0.0062)													
			2017	18/25	18/25	0.0016～0.47	(0.0012)																	
835-1-4-13	Trideca(oxyethylene) dodecyl ether		2005	9/15	3/5	0.022～0.12	(0.020)																	835-1-4-13
			2006					11/15	4/5	0.012～0.19	(0.0080)													
			2017	16/24	16/24	0.0014～0.57	(0.00081)																	
835-1-4-14	Tetradeca(oxyethylene) dodecyl ether		2005	8/15	3/5	0.029～0.12	(0.024)																	835-1-4-14
			2006					11/15	4/5	0.013～0.17	(0.0064)													
			2017	16/24	16/24	0.0015～0.76	(0.0011)																	
835-1-4-15	Pentadeca(oxyethylene) dodecyl ether		2006					12/15	5/5	0.0049～0.17	(0.0043)													835-1-4-15
			2017	14/24	14/24	0.0083～2.1	(0.0012)																	
835-1-4-16	Hexadeca(oxyethylene) dodecyl ether		2006					14/15	5/5	0.0033～0.15	(0.0030)													835-1-4-16
835-1-4-17	Heptadeca(oxyethylene) dodecyl ether		2006					12/15	5/5	0.0049～0.081	(0.0036)													835-1-4-17
835-1-4-18	Octadeca(oxyethylene) dodecyl ether		2006					12/15	5/5	0.0036～0.043	(0.0025)													835-1-4-18

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			
835-1-4-19	Nonadeca(oxyethylene) dodecyl ether		2006					12/15	5/5	0.0015～0.031	(0.0010)													835-1-4-19
835-1-5	Poly(oxyethylene) tridecyl ethers	24938-91-8																						835-1-5
	(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*)													
835-1-5-1	Mono(oxyethylene) tridecyl ether*******		2017	2/25	2/25	0.0018～0.0056	(0.00094)																	835-1-5-1
835-1-5-2	Di(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.017)													835-1-5-2
			2017	1/25	1/25	0.0041	(0.0022)																	
835-1-5-3	Tri(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.022)													835-1-5-3
			2017	3/25	3/25	0.00085～0.0032	(0.00084)																	
835-1-5-4	Tetra(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.022)													835-1-5-4
			2017	1/25	1/25	0.0033	(0.0013)																	
835-1-5-5	Penta(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.022)													835-1-5-5
			2017	1/25	1/25	0.0025	(0.0017)																	
835-1-5-6	Hexa(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.021)													835-1-5-6
			2017	1/25	1/25	0.0019	(0.0014)																	
835-1-5-7	Hepta(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.020)													835-1-5-7
			2017	1/25	1/25	0.0018	(0.0016)																	
835-1-5-8	Octa(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.019)													835-1-5-8
			2017	0/25	0/25	—	(0.0016)																	
835-1-5-9	Nona(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.021)													835-1-5-9
			2017	1/25	1/25	0.0013	(0.00095)																	
835-1-5-10	Deca(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.019)													835-1-5-10
			2017	1/25	1/25	0.0017	(0.0011)																	
835-1-5-11	Undecan(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.015)													835-1-5-11
			2017	1/25	1/25	0.0013	(0.0013)																	
835-1-5-12	Dodeca(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.013)													835-1-5-12
			2017	0/25	0/25	—	(0.0012)																	
835-1-5-13	Trideca(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.015)													835-1-5-13
			2017	2/25	2/25	0.0011～0.0016	(0.00081)																	
835-1-5-14	Tetradeca(oxyethylene) tridecyl ether*******		2006					0/15	0/5	—	(0.0096)													835-1-5-14
			2017	0/25	0/25	—	(0.0011)																	
835-1-5-15	Pentadeca(oxyethylene) tridecyl ether*******		2006					5/15	4/5	0.0075～0.0087	(0.0069)													835-1-5-15
			2017	1/25	1/25	0.0028	(0.0012)																	
835-1-5-16	Hexadeca(oxyethylene) tridecyl ether		2006					8/15	4/5	0.0053～0.011	(0.0053)													835-1-5-16
835-1-5-17	Heptadeca(oxyethylene) tridecyl ether		2006					7/15	3/5	0.0050～0.010	(0.0043)													835-1-5-17
835-1-5-18	Octadeca(oxyethylene) tridecyl ether		2006					7/15	3/5	0.0039～0.0081	(0.0030)													835-1-5-18
835-1-5-19	Nonadeca(oxyethylene) tridecyl ether		2006					8/15	4/5	0.0018～0.0058	(0.0017)													835-1-5-19
835-1-6	Poly(oxyethylene) tetradecyl ethers	27306-79-2																						835-1-6
	(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*)													
835-1-6-1	Mono(oxyethylene) tetradecyl ether*******		2017	1/25	1/25	0.0057	(0.0052)																	835-1-6-1
835-1-6-2	Di(oxyethylene) tetradecyl ether*******		2006					0/15	0/5	—	(0.018)													835-1-6-2
			2017	2/25	2/25	0.0047～0.0076	(0.0022)																	
835-1-6-3	Tri(oxyethylene) tetradecyl ether*******		2006					0/15	0/5	—	(0.019)													835-1-6-3
			2017	5/25	5/25	0.00091～0.0069	(0.00084)																	
835-1-6-4	Tetra(oxyethylene) tetradecyl ether*******		2006					0/15	0/5	—	(0.018)													835-1-6-4
			2017	2/25	2/25	0.0027～0.006	(0.0013)																	
835-1-6-5	Penta(oxyethylene) tetradecyl ether*******		2006					0/15	0/5	—	(0.023)													835-1-6-5
			2017	2/25	2/25	0.0028～0.0045	(0.0017)																	
835-1-6-6	Hexa(oxyethylene) tetradecyl ether*******		2006					0/15	0/5	—	(0.021)													835-1-6-6
			2017	3/25	3/25	0.0015～0.0035	(0.0014)																	
835-1-6-7	Hepta(oxyethylene) tetradecyl ether*******		2006					0/15	0/5	—	(0.020)													835-1-6-7
			2017	4/25	4/25	0.0017～0.0035	(0.0016)																	
835-1-6-8	Octa(oxyethylene) tetradecyl ether*******		2006					1/15	1/5	0.018	(0.017)													835-1-6-8
			2017	4/25	4/25	0.0018～0.0048	(0.0016)																	
835-1-6-9	Nona(oxyethylene) tetradecyl ether*******		2006					1/15	1/5	0.039	(0.017)													835-1-6-9
			2017	7/25	7/25	0.00098～0.0042	(0.00095)																	
835-1-6-10	Deca(oxyethylene) tetradecyl ether*******		2006					1/15	1/5	0.054	(0.016)													835-1-6-10
			2017	5/25	5/25	0.0012～0.0051	(0.0011)																	
835-1-6-11	Undeca(oxyethylene) tetradecyl ether*******		2006					1/15	1/5	0.066	(0.012)													835-1-6-11
			2017	6/25	6/25	0.0013～0.0049	(0.0013)																	
835-1-6-12	Dodeca(oxyethylene) tetradecyl ether*******		2006					3/15	3/5	0.011～0.073	(0.011)													835-1-6-12
			2017	7/25	7/25	0.0012～0.0084	(0.0012)																	
835-1-6-13	Trideca(oxyethylene) tetradecyl ether*******		2006					2/15	2/5	0.016～0.054	(0.014)													835-1-6-13
			2017	5/25	5/25	0.001～0.009	(0.00081)																	
835-1-6-14	Tetradeca(oxyethylene) tetradecyl ether*******		2006					2/15	2/5	0.016～0.041	(0.0087)													835-1-6-14
			2017	8/25	8/25	0.0013～0.015	(0.0011)																	
835-1-6-15	Pentadeca(oxyethylene) tetradecyl ether*******		2006					7/15	4/5	0.0059～0.034	(0.0053)													835-1-6-15
			2017	7/25	7/25	0.0023～0.048	(0.0012)																	
835-1-6-16	Hexadeca(oxyethylene) tetradecyl		2006					9/15	4/5	0.0046～0.026	(0.0039)													835-1-6-16
835-1-6-17	Heptadeca(oxyethylene) tetradecyl ether		2006					8/15	4/5	0.0043～0.015	(0.0042)													835-1-6-17
835-1-6-18	Octadeca(oxyethylene) tetradecyl ether		2006					8/15	4/5	0.0033～0.0067	(0.0027)													835-1-6-18
835-1-6-19	Nonadeca(oxyethylene) tetradecyl ether		2006					7/15	3/5	0.0029～0.030	(0.0027)													835-1-6-19
835-7-4	Polyoxyethylene decyl ethers	27306-79-2																						835-7-4
	(polymerisation degree 1-15)*******		(2017)	0/25	0/25	—	(0.023*)																	
	(polymerization degree 2-19)		(2006)					0/15	0/5	—	(0.15*)													
835-1-7-1	Mono(oxyethylene) pentadecyl ether*******		2017	1/25	1/25	0.0061	(0.00094)																	835-1-7-1

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			
835-1-7-2	Di(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	–	(0.0080)													835-1-7-2
			2017	0/25	0/25	–	(0.0022)																	
835-1-7-3	Tri(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	–	(0.010)													835-1-7-3
			2017	1/25	1/25	0.00084	(0.00084)																	
835-1-7-4	Tetra(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	–	(0.011)													835-1-7-4
			2017	0/25	0/25	–	(0.0013)																	
835-1-7-5	Penta(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	–	(0.014)													835-1-7-5
			2017	0/25	0/25	–	(0.0017)																	
835-1-7-6	Hexa(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	–	(0.013)													835-1-7-6
			2017	0/25	0/25	–	(0.0014)																	
835-1-7-7	Hepta(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	–	(0.012)													835-1-7-7
			2017	0/25	0/25	–	(0.0016)																	
835-1-7-8	Octa(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	–	(0.015)													835-1-7-8
			2017	0/25	0/25	–	(0.0016)																	
835-1-7-9	Nona(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	–	(0.012)													835-1-7-9
			2017	0/25	0/25	–	(0.00095)																	
835-1-7-10	Deca(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	–	(0.012)													835-1-7-10
			2017	0/25	0/25	–	(0.0011)																	
835-1-7-11	Undeca(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	–	(0.0092)													835-1-7-11
			2017	0/25	0/25	–	(0.0013)																	
835-1-7-12	Dodeca(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	–	(0.0078)													835-1-7-12
			2017	0/25	0/25	–	(0.0012)																	
835-1-7-13	Trideca(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	–	(0.0078)													835-1-7-13
			2017	0/25	0/25	–	(0.00081)																	
835-1-7-14	Tetradeca(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	–	(0.0055)													835-1-7-14
			2017	0/25	0/25	–	(0.0011)																	
835-1-7-15	Pentadeca(oxyethylene) pentadecyl ether*******		2006					0/15	0/5	–	(0.0039)													835-1-7-15
			2017	0/25	0/25	–	(0.0012)																	
835-1-7-16	Hexadeca(oxyethylene) pentadecyl ether		2006					0/15	0/5	–	(0.0034)													835-1-7-16
835-1-7-17	Heptadeca(oxyethylene) pentadecyl ether		2006					0/15	0/5	–	(0.0031)													835-1-7-17
835-1-7-18	Octadeca(oxyethylene) pentadecyl ether		2006					0/15	0/5	–	(0.0031)													835-1-7-18
835-1-7-18	Nonadeca(oxyethylene) pentadecyl ether		2006					0/3	0/1	–	(0.0018)													835-1-7-18
835-2	Poly(oxyethylene) alkylphenyl ethers	Unknown	1977	3/15	1/5	190～230	(100)	6/15	2/5	7.2～29.6	(4.0)													835-2
			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)													
835-2-1	Poly(oxyethylene) octylphenyl ethers (polymerisation degree = 1-10)	9036-19-5	(2014)	17/20	17/20	0.0022～0.11	(0.0017*)																	835-2-1
835-2-1-1	Mono(oxyethylene) octylphenyl ethers		2014	16/20	16/20	0.00061～0.02	(0.00053)																	835-2-1-1
835-2-1-2	Di(oxyethylene) octylphenyl ethers		2014	18/20	18/20	0.00021～0.043	(0.00014)																	835-2-1-2
835-2-1-3	Tri(oxyethylene) octylphenyl ethers		2014	15/20	15/20	0.00015～0.01	(0.00011)																	835-2-1-3
835-2-1-4	Tetra(oxyethylene) octylphenylethers		2014	13/20	13/20	0.00020～0.011	(0.00016)																	835-2-1-4
835-2-1-5	Penta(oxyethylene) octylphenyl ethers		2014	12/20	12/20	0.00021～0.014	(0.00017)																	835-2-1-5
835-2-1-6	Hexa(oxyethylene) octylphenyl ethers		2014	14/20	14/20	0.00019～0.016	(0.00015)																	835-2-1-6
835-2-1-7	Hepta(oxyethylene) octylphenyl ethers		2014	10/20	10/20	0.00017～0.015	(0.00010)																	835-2-1-7
835-2-1-8	Octa(oxyethylene) octylphenyl ethers		2014	11/20	11/20	0.00001～0.014	(0.00009)																	835-2-1-8
835-2-1-9	Nona(oxyethylene) octylphenyl ethers		2014	10/20	10/20	0.00023～0.011	(0.00012)																	835-2-1-9
835-2-1-10	Deca(oxyethylene) octylphenyl ethers		2014	9/20	9/20	0.00013～0.0082	(0.00008)																	835-2-1-10
835-2-1	Poly(oxyethylene) nonylphenyl ethers	9016-45-9																						835-2-1
	(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*)																	
835-2-1-1	Mono(oxyethylene) nonylpheny		2014	3/27	3/27	0.035～0.048	(0.034)																	835-2-1-1
835-2-1-2	Di(oxyethylene) nonylphenyl ethers		2005	13/13	5/5	0.0051～0.33	(0.0037)																	835-2-1-2
			2014	25/27	25/27	0.0009～0.22	(0.0004)																	
835-2-1-3	Tri(oxyethylene) nonylphenyl ethers		2005	16/19	6/7	0.0060～0.22	(0.0042)																	835-2-1-3
			2014	13/27	13/27	0.0085～0.21	(0.0081)																	
835-2-1-4	Tetra(oxyethylene) nonylphenyl ethers		2005	14/17	5/6	0.0043～0.13	(0.0018)																	835-2-1-4
			2014	21/27	21/27	0.002～0.22	(0.0019)																	
835-2-1-5	Penta(oxyethylene) nonylphenyl ethers		2005	11/16	5/6	0.0053～0.12	(0.0034)																	835-2-1-5
			2014	23/27	23/27	0.0011～0.16	(0.0006)																	
835-2-1-6	Hexa(oxyethylene) nonylphenyl ethers		2005	9/16	4/6	0.0052～0.090	(0.0037)																	835-2-1-6
			2014	20/27	20/27	0.0019～0.12	(0.0018)																	
835-2-1-7	Hepta(oxyethylene) nonylphenyl ethers		2005	8/16	4/6	0.0039～0.094	(0.0038)																	835-2-1-7
			2014	16/27	16/27	0.0028～0.086	(0.0028)																	
835-2-1-8	Octa(oxyethylene) nonylphenyl ethers		2005	11/17	4/6	0.0031～0.096	(0.0027)																	835-2-1-8
			2014	19/27	19/27	0.0017～0.073	(0.0012)																	
835-2-1-9	Nona(oxyethylene) nonylphenyl ethers		2005	7/16	3/6	0.0034～0.087	(0.0023)																	835-2-1-9
			2014	20/27	20/27	0.0018～0.074	(0.0016)																	
835-2-1-10	Deca(oxyethylene) nonylphenyl ethers		2005	10/16	4/6	0.0026～0.085	(0.0024)																	835-2-1-10
			2014	14/27	14/27	0.0029～0.072	(0.0024)																	
835-2-1-11	Undecan(oxyethylene) nonylphenyl ethers		2005	7/16	4/6	0.0038～0.073	(0.0036)																	835-2-1-11
			2014	24/27	24/27	0.0009～0.069	(0.0009)																	
835-2-1-12	Dodeca(oxyethylene) nonylphenyl ethers		2005	6/16	3/6	0.0028～0.059	(0.0026)																	835-2-1-12
			2014	17/27	17/27	0.002～0.07	(0.0014)																	
835-2-1-13	Trideca(oxyethylene) nonylphenyl ethers		2005	7/16	3/6	0.0028～0.038	(0.0024)																	835-2-1-13
			2014	16/27	16/27	0.0017～0.042	(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			
835-2-1-14	Tetradeca(oxyethylene) nonylphenyl ethers		2005	4/16	2/6	0.017～0.028	(0.0043)																	835-2-1-14
			2014	13/27	13/27	0.0017～0.031	(0.0017)																	
835-2-1-15	Pentadeca(oxyethylene) nonylphenyl ethers		2005	1/12	1/4	0.012	(0.0035)																	835-2-1-15
			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																						
836	Propanal	123-38-6	1987	0/75	0/25	—	(0.5)									23/66	7/12	810～14,000	(800)					836
837	1-Propanamine	107-10-8	1980	0/27	0/9	—	(0.5～33)	0/27	0/9	—	(0.001～0.18)													837
838	Propane-1,2-diol	57-55-6	1977	0/6	0/2	—	(300～400)	0/6	0/2	—	(2～ 3)													838
			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)																	
839	4,4'-Propane-2,2-diyldiphenol (synonym: 4,4'-Isopropylidenediphenol or Bisphenol-	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)									839
			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)									
840	Propanenitrile	107-12-0	1987	0/75	0/25	—	(0.7)	0/75	0/25	—	(0.006)					0/61	0/10	—	(200)					840
	Propanil	See 3',4'-Dichloropropionanilide																						
841	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)					841
842	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)					842
			2008													15/15	5/5	200～4,900	(10)					
	n-Propanolamine	See 3-Aminopropan-1-ol																						
843	1-Propene	115-07-1	1977	2/6	1/2	0.1	(0.05～5)	0/6	0/2	—	(0.0002～0.005)													843
	2-Propen-1-ol	See Allyl alcohol																						
844	*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)													844
	Propionaldehyde	See Propanal																						
	Propionitrile	See Propanenitrile																						
	Propoxur	See 2-Isopropyloxyphenyl*N*-methylcarbamate																						
	n-Propylamine	See 1-Propanamine																						
	Propylene	See 1-Propene																						
845	Propylene diamine	78-90-0	1987	0/87	0/29	—	(0.6)	0/87	0/29	—	(0.100)													845
846	Propylene dinitrate	6423-43-4	2007													2/24	1/8	2.0～3.9	(2.0)					846
	Propylene glycol	See 1,2-Propanediol																						
	Propylene oxide	See 1,2-Epoxypropane																						
847	Propylenimine	75-55-8	1986	0/30	0/10	—	(50)	0/24	0/8	—	(0.05)													847
848	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)									848
			2012	1/16	1/16	0.016	(0.014)																	
	n-Propyl *p*-oxybenzoate	See Propylparaben																						
	Propylparaben	See Propyl 4-hydroxybenzoate																						
849	5-(Propylsulfinyl)-1*H*-benzimidazol-2-yl carbamic acid methyl ester	54029-12-8	2018	0/18	0/18	—	(0.0068)																	849
850	5-(Propylsulfonyl)-1*H*-benzimidazol-2-yl amine	80983-34-2	2018	0/18	0/18	—	(0.010)																	850
851	5-(Propylsulfonyl)-1*H*-benzimidazol-2-yl carbamic acid methyl ester	75184-71-3	2018	0/18	0/18	—	(0.011)																	851
852	5-(Propylthio)-1*H*-benzimidazol-2-yl carbamic acid methyl ester	54965-21-8	2018	0/18	0/18	—	(0.0011)																	852
	Propylthiouracil	See 2,3-Dihydro-6-propyl-2-thioxo-4(1*H*)- pyrimidinone																						
853	*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)					853
854	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)					854
			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)					
	Pyridaphenthion	See *O*,*O*-Diethyl *O*-(6-oxo-1-phenyl-1,6-dihydro-3-pyridazinyl) thiophosphate																						
855	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)													855
			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)					
856	2-Pyridinecarbonitrile	100-70-9	1984	0/24	0/8	—	(1～4)	0/24	0/8	—	(0.06～0.2)													856
857	4-Pyridinecarbonitrile	100-48-1	1984	0/24	0/8	—	(0.9～4)	0/24	0/8	—	(0.04～0.2)													857
858	Pyridine-triphenylborane(1/1)	971-66-4	2003	0/15	0/5	—	(0.12)																	858
	Pyridostigmine	See 3-[[(Dimethylamino)carbonyl]oxy]-1-methylpyridinium																						
	2-Pyridylamine	See 2-Aminopyridine																						
	3-Pyridylamine	See 3-Aminopyridine																						
	4-Pyridylamine	See 4-Aminopyridine																						
859	Pyrimethamine	58-14-0	2014	0/16	0/16	—	(0.0038)																	859
860	Pyrimethanil	53112-28-0	2019	0/26	0/26	—	(0.0021)																	860
861	Pyrocatechol	120-80-9	2012													9/69	7/23	6.0～25	(5.0)					861
862	Pyrrole	109-97-7	1981	0/24	0/8	—	(2～5)	0/24	0/8	—	(0.03～0.1)													862
863	Pyrrolidine	123-75-1	1986	0/30	0/10	—	(10)	0/24	0/8	—	(0.03)													863
864	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)													864
			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																						
865	Roxithromycin	80214-83-1	2014	6/17	6/17	0.0073～0.047	(0.0065)																	865
866	Salicylaldehyde	90-02-8	2007	0/15	0/5	—	(0.013)																	866
867	Salicylic acid and its salts (as Sodium salicylate)	54-21-7	2018	14/20	14/20	0.062～1.4	(0.050)																	867

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				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			
	Salithion	See 2-Methoxy-4*H*-1,3,2-benzodioxaphosphorin-2-sulfide																						
868	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										868
			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)									
869	Silver and its compounds (as Silver)	7440-22-4 etc.	2015	19/21	19/21	0.0006～0.12	(0.0006)																	869
	Simazine	See 2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine																						
	Simetryn	See 2,4-Bis(ethylamino)-6-methylthio-1,3,5-triazine																						
870	Sodium (1,1'-biphenyl)-2-olate	132-27-4	2013	3/11	3/11	0.0047～0.0103	(0.0024)																	870
871	Sodium *m*-nitrobenzenesulfonate	127-68-4	1977	0/6	0/2	—	(6.6～10)	0/6	0/2	—	(0.5～0.78)													871
	Solvent yellow 14	See 1-Phenylazo-2-naphthol																						
	Solvent yellow 2	See 4-Dimethylaminoazobenzene																						
872	Styrene	100-42-5	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.006)													872
			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																						
873	Sulfabenzamide	127-71-9	2014	0/16	0/16	—	(0.005)																	873
874	Sulfabromomethazine	116-45-0	2014	0/16	0/16	—	(0.005)																	874
875	Sulfachlorpyridazine	80-32-0	2014	0/16	0/16	—	(0.005)																	875
876	Sulfadiazine	68-35-9	2014	1/16	1/16	0.029	(0.005)																	876
877	Sulfadimethoxine	122-11-2	2014	0/16	0/16	—	(0.005)																	877
878	Sulfadimidine	57-68-1	2014	0/16	0/16	—	(0.005)																	878
879	Sulfadoxine	2447-57-6	2014	0/16	0/16	—	(0.005)																	879
880	Sulfaethoxypyridazine	963-14-4	2014	0/16	0/16	—	(0.005)																	880
881	Sulfaguanidine	57-67-0	2014	0/16	0/16	—	(0.005)																	881
882	Sulfamerazine	127-79-7	2014	0/16	0/16	—	(0.005)																	882
883	Sulfamethoxazole	723-46-6	2014	11/16	11/16	0.0053～0.19	(0.005)																	883
884	Sulfamethoxypyridiazine	80-35-3	2014	0/16	0/16	—	(0.005)																	884
885	Sulfamonomethoxine	1220-83-3	2014	0/16	0/16	—	(0.005)																	885
886	Sulfanilamide	63-74-1	2014	10/14	10/14	0.0036～0.21	(0.0036)																	886
887	Sulfanitran	122-16-7	2014	0/16	0/16	—	(0.02)																	887
888	Sulfapyridine	144-83-2	2014	11/16	11/16	0.006～0.29	(0.005)																	888
889	Sulfaquinoxaline	59-40-5	2014	0/16	0/16	—	(0.005)																	889
890	Sulfathiazole	72-14-0	2014	0/16	0/16	—	(0.005)																	890
891	Sulfatroxazole	23256-23-7	2014	0/16	0/16	—	(0.005)																	891
892	Sulfisomidine	515-64-0	2014	1/16	1/16	0.013	(0.005)																	892
893	Sulfisoxazole	127-69-5	2014	0/16	0/16	—	(0.005)																	893
894	Sulfisozole	73247-57-1 (as sodium salt)	2014	0/16	0/16	—	(0.005)																	894
	2,4,5-T	See 2,4,5-Trichlorophenoxyacetic acid																						
895	Tacrolimus	104987-11-3	2014	0/17	0/17	—	(0.0012)																	895
	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																						
896	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)									896
			2006	0/12	0/4	—	(0.019)									15/15	5/5	0.019～0.43	(0.016)					
	Telodrine	See Isobenzan																						
897	Terephthalic acid	100-21-0	1975	6/100	3/20	200～700	(20～5,000)																	897
			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)																	
898	Terephthalonitrile	623-26-7	1981	0/15	0/5	—	(0.1～5)	0/15	0/5	—	(0.001～0.05)													898
899	*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)									899
			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														

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				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	0/15	0/15	—	(0.00046)																	
900	*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)									900
			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														
901	*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)									901
			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														
			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														
902	Testosterone	58-22-0	2007	0/51	0/17	—	(0.000079)																	902
903	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)													903
904	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)													904
	Tetrabromobiphenyl	See Polybromobiphenyl (Tetrabromobiphenyl)																						
	Tetrabromobisphenol A	See 2,2',6,6'-Tetrabromo-4,4'-(propane-2,2-diyl)diphenol																						
905	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)									905
906	Tetrabromomethane	558-13-4	1981	0/15	0/5	—	(0.004～3)	0/15	0/5	—	(0.00078～0.012)													906
907	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)													907
			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)									
908	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)									908
909	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)	909
			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)									

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									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)					
910	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)	910
			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)					

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			
911	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)	911
			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)									
			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)																	
912	2,3,5,6-Tetrachloro-*p*-benzoquinone	118-75-2	2015	0/14	0/14	—	(0.18)																	912
913	2,2',3,3'-Tetrachloro-4,4'-diaminodiphenylmethane	42240-73-3	1985	0/30	0/10	—	(5)	0/24	0/8	—	(0.8)													913
	3,3',5,5'-Tetrachloro-4,4'-diaminodiphenylmethane	See 4,4'-Methylenebis[2,6-dichloroaniline]																						
914	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)									914
			2012	2/24	2/24	0.10～0.12	(0.10)																	
915	Tetrachloroethane (synonym: CFC-112)	76-12-0	2006	0/15	0/5	—	(0.011)																	915
916	Tetrachloroethylene	127-18-4	1974	5/60	1/12	3	(0.2～2)													Precipitation 0/18	0/7	—ppm	(0.0002～0.002)	916
			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)	

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			
			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)	
			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																						
917	*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)													917
918	Tetrachloroisophthalonitrile (synonym: Chlorothalonil or TPN)	1897-45-6	1977	0/3	0/1	—	(10)	0/3	0/1	—	(0.1)													918
			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)																	
919	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)	919
			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)	

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													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)	
			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)	
920	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)													920
			1996	0/33	0/11	－	(0.25)	0/33	0/11	－	(0.009)													
921	Tetracycline	60-54-8	2014	0/16	0/16	－	(0.0083)																	921
922	Tetraethoxysilan	78-10-4	1992													0/18	0/6	－	(2.5)					922
	Tetraethylthiuram disulfide	See Disulfiram																						
923	1,1,1,2-Tetrafluoroethane (synonym: HCFC-134a)	811-97-2	2003													58/58	20/20	100～1,800	(7)					923
924	Tetrafluoroethylene	116-14-3	2012													8/30	4/10	68～2,800	(61)					924
925	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)					925
	2,2,3,3-Tetrafluoropropionic acid	See Sodium 2,2,3,3-tetrafluoropropionate																						
926	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)													926
927	Tetrahydrofuran	109-99-9	1979	0/33	0/11	－	(0.2～25)	0/33	0/11	－	(0.0001～0.033)													927
			1996	0/33	0/11	－	(1)									5/18	2/6	180～810	(110)					
			2006													9/21	3/7	120～260	(60)					
928	1,2,3,4-Tetrahydronaphthalene	119-64-2	1977	0/9	0/3	－	(0.1～1)	0/6	0/2	－	(0.004～0.1)													928
	Tetrahydronaphthalene	See 1,2,3,4-Tetrahydronaphthalene																						
929	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)									929
930	2,2',4,4'-Tetrahydroxybenzophenone	131-55-5	2014	1/21	1/21	0.013	(0.012)																	930
931	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)													931
			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)																	
932	Tetramethyl-thiodicarbonic diamide	97-74-5	1985	0/27	0/9	－	(0.9)	0/27	0/9	－	(0.009)													932
			1992	0/30	0/10	－	(1)	0/30	0/10	－	(0.02)													
933	Tetramethylthiuram disulfide (synonym: Thiuram or Thiram)	137-26-8	1985	0/27	0/9	－	(0.9)	0/27	0/9	－	(0.02)													933
			1992	0/30	0/10	－	(1)																	
	Tetramethylthiuram monosulfide	See Tetramethyl-thiodicarbonic diamide																						
	Tetraphenyltin compound	See Organotin compounds (Tetraphenyltin compound)																						
934	Thallium and its compounds (as	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)									934
			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																						

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				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			
935	2-(1,3-Thiazol-4-yl)-1*H*-benzoimidazole	148-79-8	1986	0/27	0/9	—	(1)	0/27	0/9	—	(0.2)													935
			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																						
936	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)													936
937	2-(Thiocyanatomethylthio)-1,3-benzothiazole (synonym: TCMTB)	21564-17-0	2013	1/15	1/15	0.0011～0.0011	(0.00082)																	937
938	Thiocyanic acid and its solts	463-56-9	2018	24/24	24/24	0.0025～0.12	(0.0011)																	938
	Thiometon	See *S*-2-(Ethylthio) ethyl *O*,*O*-dimethyl dithiophosphate																						
	Thiophanate-methyl	See Dimethyl 4,4'-(*o*-phenylene)bis(3-thioallophanate)																						
939	Thiophene	110-02-1	1985	0/24	0/8	—	(0.005)	3/24	1/8	0.0002～0.0015	(0.0001)													939
940	Thiourea	62-56-6	1977	0/6	0/4	—	(1.1～400)	0/6	0/4	—	(0.055～1)													940
			2013	2/23	2/23	0.25～310	(0.14)																	
941	2-Thioxo-3,5-dimethyltetrahydro-2*H*-1,3,5-thiadiazine (synonym: Dazomet)	533-74-4	2007	0/33	0/11	—	(0.420)																	941
	Thiram	See Tetramethylthiuram disulfide																						
	Thiuram	See Tetramethylthiuram disulfide																						
942	*L*-Thyroxine	51-48-9	2010	0/57	0/19	—	(0.00015)																	942
943	Tiamulin	55297-95-5	2019	6/27	6/27	0.000024～0.0031	(0.000013)																	943
944	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										944
945	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)									945
	TMP	See Trimethyl phosphate																						
	o-Tolidine	See 3,3'-Dimethylbenzidine																						
946	Toluene	108-88-3	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.004)													946
			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																						
947	Toluene-2,3-diamine	2687-25-4	1978	0/24	0/8	—	(1～20)	0/24	0/8	—	(0.7～1.1)													947
948	2-Toluenesulfonamide	88-19-7	1977	0/6	0/2	—	(10)	0/6	0/2	—	(0.005～0.048)													948
			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																						
949	*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)													949
	p-Toluenesulfonyl chloride	See 4-Methylbenzenesulfonyl chloride																						
950	*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)													950
			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)					
951	*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)													951
			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)					
952	*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)													952
			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																						
953	*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)					953
			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 17*β*-Hydroxyestra-4,9,11-trien-3-one																						
954	Triallylamine	102-70-5	1981	0/27	0/9	—	(1～5)	0/27	0/9	—	(0.01 ～0.02)													954
955	1,3,5-Tribromobenzene	626-39-1	1981	0/18	0/6	—	(0.01～0.03)	0/18	0/6	—	(0.0002～0.0003)													955
956	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)													956
957	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)									957
			1980													0/63	0/12	—	(4～300)					
958	2,4,6-Tribromophenol	118-79-6	1986	0/33	0/11	—	(0.006)	2/33	1/11	0.0015～0.0040	(0.0005)													958
			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																						
959	Tributylamine	102-82-9	1986	0/30	0/10	—	(3)	0/27	0/9	—	(0.08)													959
	Tri-*n*-butylamine	See Tributylamine																						
960	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)									960
961	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)													961
962	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)													962
			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)					

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									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																						
963	Tri-*n*-butyl 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)									963
			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)									
			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)									
	Tributyltin compounds	See Organotin compounds (Tributyltin compounds)																						
	Trichlorfon	See Dimethy 2,2,2-trichloro-1-hydroxyethylphosphonate																						
964	Trichloroacetaldehyde	75-87-6	2006	0/21	0/7	－	(0.01)																	964
965	Trichloroacetic acid	76-03-9	1984	0/21	0/7	－	(5)	0/21	0/7	－	(0.02～0.05)													965
966	2,4,5-Trichloroaniline	636-30-6	1981	0/15	0/5	－	(0.001～0.005)	0/15	0/5	－	(0.0002～0.001)													966
967	2,4,6-Trichloroaniline	634-93-5	1981	0/15	0/5	－	(0.001～0.006)	0/15	0/5	－	(0.0002～0.001)													967
968	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)	968
			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)									

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 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)									
			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)					
969	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)	969
			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)					

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			
970	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)	970
			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)									
			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)					
971	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)									971
			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)									

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		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)									
			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 0.000015	(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	(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)														

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													W.S. 35/35	W.S. 35/35	W.S. 0.00018～0.013	(W.S. 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)	W.S. 37/37	W.S. 37/37	W.S. 0.00015～0.014	(W.S. 0.00001)					
972	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)													972
			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													W.S. 10/37	W.S. 10/37	W.S. 0.0002～0.0010	(W.S. 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)	W.S. 5/36	W.S. 5/36	W.S. 0.0002～0.0004	(W.S. 0.0002)					
	1,1,1-Trichloro-2,2-bis(4-methoxyphenyl)ethane	See Methoxychlor																						
973	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)	973
			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)					
974	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)									974
			2001													4/48	3/16	20～27	(20)					
	2,2,2-Trichloro-1,1-ethanediol	See 2,2,2-Trichloroethane-1,1-diol																						
975	2,2,2-Trichloroethane-1,1-diol	302-17-0	1986	0/27	0/9	－	(1)	0/21	0/7	－	(0.006)													975
976	Trichloroethene	79-01-6	1974	1/60	1/12	5	(0.1～5)													Precipitation 0/18	0/7	－ppm	(0.0002～0.005)	976
			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)	
			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)	

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													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)	
977	Trichlorofluoromethane	75-69-4	1976													90/115	23/27	2～450	(2.1)					977
			1977													71/97	28/44	20～900	(10～1,000)					
978	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)													978
			1988	0/72	0/24	－	(0.5)	0/72	0/24	－	(0.06)					1/72	1/12	57	(25)					
979	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)													979
	2,4,6-Trichloro-2-nitrobenzene	See 1,3,5-Trichloro-2-nitrobenzene																						
980	Trichloronitromethane (synonym: Chloropicrin)	76-06-2	1979	0/24	0/8	－	(0.005～0.1)	0/24	0/8	－	(0.00025～0.005)													980
			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)									
981	2,4,5-Trichlorophenol	95-95-4	1978	0/21	0/7	－	(0.02～0.08)	0/21	0/7	－	(0.001～0.008)													981
			1996	0/33	0/11	－	(0.2)	0/30	0/10	－	(0.0063)													
			2008	0/108	0/36	－	(0.007)																	
982	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)													982
			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)					
983	2,4,5-Trichlorophenoxyacetic acid	93-76-5	1983	0/45	0/15	－	(0.01～3)	0/45	0/15	－	(0.0002～0.13)													983
			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																						
984	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)									984
			2009													60/60	20/20	1.5～150	(0.076)					
	1,1,2-Trichloro-1,2,2-trifluoroethane	See Trichlorotrifluoroethane																						
985	Trichlorotrifluoroethane	76-13-1	1981	0/27	0/9	－	(0.002～20)	0/27	0/9	－	(0.00002～0.02)													985
			1983													100/100	12/12	3～4,540	(0.3～5)					
986	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)									986
	Triclosan	See 5-Chloro-2-(2,4-dichlorophenoxy)phenol																						
	Tricresyl phosphate	See Tritolyl phosphate																						
	Tricyclohexyltin compounds	See Organotin compounds (Tricyclohexyltin compounds)																						
987	Tridecyl alcohol	112-70-9 etc.	1977	0/6	0/2	－	(300)	0/6	0/2	－	(6)													987
988	Triethanolamine	102-71-6	1978	0/12	0/4	－	(0.3～1.3)																	988
			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)																	
989	Triethylamine	121-44-8	1981	0/27	0/9	－	(0.7～2)	0/27	0/9	－	(0.005～0.01)													989
			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)					
990	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)									990
991	Triethylene glycol ethyl ether	112-50-5	1988	0/75	0/25	－	(2.2)	0/75	0/25	－	(0.24)													991
	Triethylene glycol methyl ether	See 2-(2-(2-methoxyethoxy)ethoxy)-ethanol																						
992	Triethylenetetramine	112-24-3	2003	0/39	0/13	－	(8)																	992
993	Triethyl phosphate	78-40-0	1982	0/42	0/14	－	(0.005～0.1)	0/42	0/14	－	(0.00025～0.005)													993
994	*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)									994
			2005	8/54	2/6	0.0031～0.0042	(0.0028)					Fish 1/9	Fish 1/3	Fish 0.0025	(Fish 0.00058)									
	Trifluralin	See *alpha* ,*alpha* ,*alpha* -Trifluoro-2,6-dinitro-*N* ,*N* -dipropyl-*p* -toluidine																						
	Trimellitic acid	See 1,2,4-Benzenetricarboxylic acid																						
995	Trimethoprim	738-70-5	2014	6/16	6/16	0.0095～0.061	(0.005)																	995

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			
996	Trimethylamine	75-50-3	1986	0/33	0/11	—	(3)	4/27	3/9	0.13～0.63	(0.08)													996
			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)					
997	1,2,3-Trimethylbenzene	526-73-8	1976	0/20	0/5	—	(0.1)	0/20	0/5	—	(0.01)													997
			2015	2/16	2/16	0.0091～0.011	(0.0048)																	
998	1,2,4-Trimethylbenzene	95-63-6	1976	0/20	0/5	—	(0.1)	0/20	0/5	—	(0.01)													998
			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)	0/41	0/14	—	(0.0030)									
			2017	1/23	1/23	0.11	(0.033)																	
999	1,3,5-Trimethylbenzene	108-67-8	1976	0/20	0/5	—	(0.1)	0/20	0/5	—	(0.01)													999
			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																						
1000	(*E*)-4-(2,6,6-Trimethylcyclohex-1-en-1-yl)-but-3-en-2-one (synonym	79-77-6	2016	2/20	2/20	0.012～0.049	(0.0025)																	1000
	1,5,5-Trimethyl-1-cyclohexen-3-one	See 3,5,5-Trimethyl-2-cyclohexen-1-one																						
1001	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)													1001
			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																						
1002	Trimethylenediamine	109-76-2	1987	0/87	0/29	—	(0.4)	0/87	0/29	—	(0.19)													1002
1003	3,5,5-Trimethyl-1-hexanol	3452-97-9	2011													0/24	0/8	—	(730)					1003
	2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	See 2-Methylpropenoic acid 2,2-dimethyl-1-(1-methylethyl)-1,3-propanediyl ester																						
1004	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)													1004
1005	Trimethyl phosphate	512-56-1	1982	0/42	0/14	—	(0.02～0.1)	0/42	0/14	—	(0.0005～0.005)													1005
			1984	0/24	0/8	—	(0.04～1)	0/24	0/8	—	(0.003～0.05)													
1006	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)																	1006
1007	2,4,6-Trinitrotoluene	118-96-7	2006	0/15	0/5	—	(0.0027)																	1007
1008	Trioctylamine	1116-76-3	1981	0/27	0/9	—	(1)	0/27	0/9	—	(0.005～0.01)													1008
	Trioctyl phosphate	See Tris(2-ethylhexyl) phosphate																						
	Trioctyltin compounds	See Organotin compounds (Trioctyltin compounds)																						
1009	Triphenylboron (III) and its compounds	960-71-4	2017	14/25	14/25	0.000037～0.00037	(0.000023)																	1009
1010	Triphenylmethane	519-73-3	1983	0/33	0/11	—	(0.2～0.4)	0/33	0/11	—	(0.008～0.041)													1010
			2004					1/18	1/6	0.0009	(0.0004)													
1011	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)									1011
			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)																						
1012	Tris(2-bromoethyl) phosphate	27568-90-7	1984	0/24	0/8	—	(0.13～1)	0/24	0/8	—	(0.027～0.07)													1012
	Tris(2-butoxyethyl) phosphate	See Tris(butoxyethyl) phosphate																						
1013	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)									1013
			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)					
1014	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)									1014
			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)					
1015	Tris(2-chloroethyl) phosphite	140-08-9	1984	0/24	0/8	—	(3～40)	0/24	0/8	—	(0.07～8.8)													1015
1016	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)									1016
	Tris-4-chlorophenylmethanol	See 4,4',4"-Trichlorotrityl alcohol																						
1017	Tris(2-chloropropyl) phosphate	6145-73-9	1984	0/24	0/8	—	(0.05～1)	0/24	0/8	—	(0.011～0.05)													1017
1018	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)									1018
			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																						
1019	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)									1019
			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)													
	1,3,5-Tris(1,1-dimethylethyl) benzene	See 1,3,5-Tri-tert-butylbenzene																						
1020	Tris(dimethylphenyl) phosphate	25155-23-1	1981	0/63	0/21	—	(0.2)	13/63	5/21	0.07～3.7	(0.05)													1020
			1999	0/42	0/14	—	(0.46)	0/39	0/13	—	(0.035)													
1021	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)									1021
			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-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																						
1022	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)													1022
	Tris(2-hydroxypropyl)amine	See 1,1',1"-Nitrilotri-2-propanol																						
1023	Tris(isopropylphenyl) phosphate	26967-76-0	1978	0/24	0/8	—	(0.05～2)	3/24	1/8	0.1	(0.01～0.1)													1023
1024	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)													1024
1025	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)									1025
			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)					

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			
	Trixylenyl phosphate	See Tris(dimethylphenyl) phosphate																						
	Tsumacide	See *m* -Tolyl methylcarbamate																						
	TTBP	See 2,4,6-Tri-*tert* -butylphenol																						
1026	Tylosin	1401-69-0	2014	0/17	0/17	—	(0.0056)																	1026
1027	Valproic Acid	99-66-1	2019	9/27	9/27	0.0048～0.024	(0.0031)																	1027
	Vamidothion	See *O* ,*O* -Dimethyl *S* -[2-[1-(*N* -methylcarbamoyl)ethylthio]ethyl] thiophosphate																						
1028	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)									1028
			2007	15/15	5/5	0.63～4.6	(0.0024)																	
1029	Vinyl acetate	108-05-4	1995	0/33	0/11	—	(5)									4/18	2/6	55～5,000	(50)					1029
			2000													8/42	5/14	120～5,500	(120)					
			2012	1/23	1/23	2.1～2.1	(0.035)																	
1030	Vinyl bromide	593-60-2	1981	0/15	0/5	—	(1)	0/15	0/5	—	(0.005～0.006)													1030
	Vinyl chloride	See Chloroethylene																						
1031	4-Vinyl-1-cyclohexene	100-40-3	2011													0/27	0/9	—	(29)					1031
			2017	0/18	0/18	—	(0.047)																	
	Vinylidene chloride	See 1,1-Dichloroethene																						
1032	2-Vinylpyridine	100-69-6	1991													7/50	4/17	17～30	(16)					1032
			2004													3/18	1/6	6.2～18	(0.4)					
			2017	0/20	0/20	—	(0.0061)																	
	XMC	See 3,5-Dimethylphenyl *N* -methylcarbamate																						
1033	Xylenes (Total of *m* -Xylene and *p* -Xylene)	108-38-3 106-42-3	1998													42/42	14/14	550～35,000	(100)					1033
1033-1	*o* -Xylene	95-47-6	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.004)													1033-1
			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)					1/35	1/12	0.0039	(0.0021)									
1033-2	*m* -Xylene	108-38-3	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.004)													1033-2
			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)					3/35	1/12	0.0034	(0.0032)									
1033-3	*p* -Xylene	106-42-3	1977	0/3	0/1	—	(2)	0/3	0/1	—	(0.004)													1033-3
			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)					1/35	1/12	0.0052	(0.0035)									
1034	2,4-Xylenol	105-67-9	1982	0/33	0/11	—	(0.04～0.5)	0/33	0/11	—	(0.0002～0.02)													1034
			2007	11/27	5/9	0.0016～0.0043	(0.0014)																	
			2010					27/27	9/9	0.00009～0.0025	(0.00009)													
1035	2,6-Xylenol	576-26-1	2006	6/18	2/6	0.0009～0.0034	(0.0005)																	1035
1036	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)													1036
	2,3-Xylidine	See 2,3-Dimethylaniline																						
1037	2,4-Xylidine	95-68-1	1977	0/6	0/2	—	(1～5)	0/6	0/2	—	(0.25～1)													1037
			2014	0/17	0/17	—	(0.014)	0/39	0/13	—	(0.0033)													
1038	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)													1038
	3,4-Xylidine	See 3,4-Dimethylaniline																						
	3,5-Xylidine	See 3,5-Dimethylaniline																						
	3,5-Xylyl methylcarbamate	See 3,5-Dimethylphenyl *N* -methylcarbamate																						
1039	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										1039
			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)									
1040	Zinc pyrithione	13463-41-7	2004	0/15	0/5	—	(0.02)																	1040
	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 undetectable in calculation of data for that perio
(Note8) ******: The survey of the Perfluorooctane sulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) since FY2009 only monitored linear octyl Perfluorooctane sulfonic acid (PFOS) and linear octyl Perfluorooctanoic acid (PFOA
(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 val