

[1] Total Polychlorinated biphenyls (Total PCBs)/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 46/48 (Missing value : 0)

Detection Frequency (sample) : 46/48 (Missing value : 0)

Detection limit : *5

Quantification limit : *13

	Aggregated value
Geometric mean	110
Median	88
Maximum	3,900
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	110
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(11)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	99
Akita Pref.	4	Lake Hachiro	85
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	37
Fukushima Pref.	6	Onahama Port	120
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	74
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	110
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	56
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	92
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	180
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	2,400
	13	Mouth of Riv. Sumida (Minato Ward)	3,900
Yokohama City	14	Yokohama Port	550
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	690
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	84
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	170
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	290
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	2,700
Nagano Pref.	20	Lake Suwa (center)	36
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	62
Aichi Pref.	22	Nagoya Port	470
Mie Pref.	23	Yokkaichi Port	110
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	65
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	950
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	540
Osaka City	27	Osaka Port	1,400
Hyogo Pref.	28	Offshore of Himeji	78
Kobe City	29	Kobe Port (center)	480
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	100
Okayama Pref.	31	Offshore of Mizushima	39
Hiroshima Pref.	32	Kure Port	200
	33	Hiroshima Bay	56
Yamaguchi Pref.	34	Tokuyama Bay	83
	35	Offshore of Ube	23
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	59
Kagawa Pref.	38	Takamatsu Port	540
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	35
Kitakyushu City	40	Dokai Bay	1,000
Saga Pref.	41	Imari Bay	25
Nagasaki Pref.	42	Omura Bay	16
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	51
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	26
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(8)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	18
Okinawa Pref.	47	Naha Port	200

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

(Note 4) * : Indicates the sum value of the Quantification [Detection] limits of each congeners.

[1-1] Monochlorobiphenyls/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 30/48 (Missing value : 0)

Detection Frequency (sample) : 30/48 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.7

	Aggregated value
Geometric mean	tr(0.6)
Median	tr(0.4)
Maximum	130
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(0.5)
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	0.8
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	1.7
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	0.8
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(0.4)
Saitama Pref.	10	Akigase-shusuiweir Weir, Riv. Arakawa (Shiki City)	0.8
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	2.3
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	5.1
	13	Mouth of Riv. Sumida (Minato Ward)	4.7
Yokohama City	14	Yokohama Port	tr(0.5)
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	1.5
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	130
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(0.3)
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	3.1
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	5.0
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	2.1
Osaka City	27	Osaka Port	1.5
Hyogo Pref.	28	Offshore of Himeji	1.5
Kobe City	29	Kobe Port (center)	2.3
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	0.7
Okayama Pref.	31	Offshore of Mizushima	tr(0.6)
Hiroshima Pref.	32	Kure Port	tr(0.3)
	33	Hiroshima Bay	tr(0.3)
Yamaguchi Pref.	34	Tokuyama Bay	18
	35	Offshore of Ube	2.8
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	1.0
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	4.1
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	1.1
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(0.4)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	tr(0.4)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-2] Dichlorobiphenyls/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 48/48 (Missing value : 0)

Detection Frequency (sample) : 48/48 (Missing value : 0)

Detection limit : 0.6

Quantification limit : 1.6

	Aggregated value
Geometric mean	12
Median	12
Maximum	150
Minimum	tr(0.9)

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	19
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(0.9)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	25
Akita Pref.	4	Lake Hachiro	7.3
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	5.8
Fukushima Pref.	6	Onahama Port	27
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	9.8
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	14
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	6.9
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	22
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	18
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	100
	13	Mouth of Riv. Sumida (Minato Ward)	120
Yokohama City	14	Yokohama Port	15
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	26
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	3.8
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	13
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	27
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	150
Nagano Pref.	20	Lake Suwa (center)	2.1
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	15
Aichi Pref.	22	Nagoya Port	61
Mie Pref.	23	Yokkaichi Port	18
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	4.2
Kyoto Pref.	25	Miyazu Port	1.7
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	130
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	73
Osaka City	27	Osaka Port	110
Hyogo Pref.	28	Offshore of Himeji	12
Kobe City	29	Kobe Port (center)	36
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	18
Okayama Pref.	31	Offshore of Mizushima	8.8
Hiroshima Pref.	32	Kure Port	5.9
	33	Hiroshima Bay	4.5
Yamaguchi Pref.	34	Tokuyama Bay	24
	35	Offshore of Ube	5.4
	36	Offshore of Hagi	2.8
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	2.2
Kagawa Pref.	38	Takamatsu Port	29
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	6.9
Kitakyushu City	40	Dokai Bay	29
Saga Pref.	41	Imari Bay	3.6
Nagasaki Pref.	42	Omura Bay	4.9
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	11
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	3.3
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	3.0
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	4.5
Okinawa Pref.	47	Naha Port	11

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[1-3] Trichlorobiphenyls/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 46/48 (Missing value : 0)

Detection Frequency (sample) : 46/48 (Missing value : 0)

Detection limit : 0.8

Quantification limit : 2.4

	Aggregated value
Geometric mean	20
Median	18
Maximum	980
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	37
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(1.5)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	28
Akita Pref.	4	Lake Hachiro	5.5
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	3.5
Fukushima Pref.	6	Onahama Port	31
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	15
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	26
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	12
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	19
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	53
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	740
	13	Mouth of Riv. Sumida (Minato Ward)	980
Yokohama City	14	Yokohama Port	160
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	180
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	9.3
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	10
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	60
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	670
Nagano Pref.	20	Lake Suwa (center)	4.3
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	18
Aichi Pref.	22	Nagoya Port	160
Mie Pref.	23	Yokkaichi Port	35
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	8.4
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	230
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	110
Osaka City	27	Osaka Port	380
Hyogo Pref.	28	Offshore of Himeji	20
Kobe City	29	Kobe Port (center)	120
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	18
Okayama Pref.	31	Offshore of Mizushima	8.8
Hiroshima Pref.	32	Kure Port	18
	33	Hiroshima Bay	7.9
Yamaguchi Pref.	34	Tokuyama Bay	10
	35	Offshore of Ube	2.7
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	7.4
Kagawa Pref.	38	Takamatsu Port	200
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	7.7
Kitakyushu City	40	Dokai Bay	160
Saga Pref.	41	Imari Bay	4.3
Nagasaki Pref.	42	Omura Bay	3.5
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	8.1
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	7.8
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(1.0)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(1.5)
Okinawa Pref.	47	Naha Port	28

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-4] Tetrachlorobiphenyls/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 47/48 (Missing value : 0)

Detection Frequency (sample) : 47/48 (Missing value : 0)

Detection limit : 1

Quantification limit : 3

	Aggregated value
Geometric mean	28
Median	22
Maximum	1,800
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	30
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	3
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	27
Akita Pref.	4	Lake Hachiro	14
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	8
Fukushima Pref.	6	Onahama Port	31
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	24
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	36
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	17
Saitama Pref.	10	Akigase-shusuiweir Weir, Riv. Arakawa (Shiki City)	20
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	65
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	940
	13	Mouth of Riv. Sumida (Minato Ward)	1,800
Yokohama City	14	Yokohama Port	230
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	280
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	22
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	8
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	96
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1,700
Nagano Pref.	20	Lake Suwa (center)	12
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	17
Aichi Pref.	22	Nagoya Port	160
Mie Pref.	23	Yokkaichi Port	39
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	18
Kyoto Pref.	25	Miyazu Port	tr(1)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	240
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	130
Osaka City	27	Osaka Port	510
Hyogo Pref.	28	Offshore of Himeji	21
Kobe City	29	Kobe Port (center)	130
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	28
Okayama Pref.	31	Offshore of Mizushima	9
Hiroshima Pref.	32	Kure Port	45
	33	Hiroshima Bay	16
Yamaguchi Pref.	34	Tokuyama Bay	11
	35	Offshore of Ube	3
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	12
Kagawa Pref.	38	Takamatsu Port	190
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	6
Kitakyushu City	40	Dokai Bay	440
Saga Pref.	41	Imari Bay	7
Nagasaki Pref.	42	Omura Bay	3
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	13
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	8
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(1)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	3
Okinawa Pref.	47	Naha Port	47

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-4-1] 3,3',4,4'-Tetrachlorobiphenyl (#77) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 24/48 (Missing value : 0)

Detection Frequency (sample) : 24/48 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.8

	Aggregated value
Geometric mean	tr(0.4)
Median	nd
Maximum	19
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(0.4)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	tr(0.4)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	tr(0.4)
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(0.6)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(0.3)
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(0.7)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	9.2
	13	Mouth of Riv. Sumida (Minato Ward)	19
Yokohama City	14	Yokohama Port	1.2
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	1.9
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(0.5)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	1.3
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(0.4)
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	1.3
Mie Pref.	23	Yokkaichi Port	tr(0.3)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	tr(0.4)
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	2.3
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	1.5
Osaka City	27	Osaka Port	5.9
Hyogo Pref.	28	Offshore of Himeji	tr(0.6)
Kobe City	29	Kobe Port (center)	tr(0.6)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(0.7)
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	2.2
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	4.2
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-4-2] 3,4,4',5-Tetrachlorobiphenyl (#81) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 4/48 (Missing value : 0)

Detection Frequency (sample) : 4/48 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.8

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(0.7)
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(0.5)
	13	Mouth of Riv. Sumida (Minato Ward)	tr(0.7)
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	tr(0.3)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	tr(0.4)
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-5] Pentachlorobiphenyls/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 46/48 (Missing value : 0)

Detection Frequency (sample) : 46/48 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 0.9

	Aggregated value
Geometric mean	18
Median	16
Maximum	720
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	14
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	4.1
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	11
Akita Pref.	4	Lake Hachiro	31
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	12
Fukushima Pref.	6	Onahama Port	17
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	16
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	21
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	12
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	19
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	30
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	370
	13	Mouth of Riv. Sumida (Minato Ward)	720
Yokohama City	14	Yokohama Port	89
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	130
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	26
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	5.9
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	72
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	210
Nagano Pref.	20	Lake Suwa (center)	11
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	8.7
Aichi Pref.	22	Nagoya Port	65
Mie Pref.	23	Yokkaichi Port	15
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	20
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	200
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	90
Osaka City	27	Osaka Port	240
Hyogo Pref.	28	Offshore of Himeji	12
Kobe City	29	Kobe Port (center)	82
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	22
Okayama Pref.	31	Offshore of Mizushima	4.1
Hiroshima Pref.	32	Kure Port	49
	33	Hiroshima Bay	13
Yamaguchi Pref.	34	Tokuyama Bay	6.1
	35	Offshore of Ube	2.6
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	15
Kagawa Pref.	38	Takamatsu Port	69
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	6.8
Kitakyushu City	40	Dokai Bay	210
Saga Pref.	41	Imari Bay	3.6
Nagasaki Pref.	42	Omura Bay	1.1
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	11
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	4.4
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	1.7
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	3.5
Okinawa Pref.	47	Naha Port	36

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

[1-5-1] 2,3,3',4,4'-Pentachlorobiphenyl (#105) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 38/48 (Missing value : 0)

Detection Frequency (sample) : 38/48 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 0.9

	Aggregated value
Geometric mean	1.1
Median	1.0
Maximum	26
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	1.0
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(0.6)
Akita Pref.	4	Lake Hachiro	2.1
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	0.9
Fukushima Pref.	6	Onahama Port	1.1
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(0.7)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	1.7
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	0.9
Saitama Pref.	10	Akigase-shusuiweir Weir, Riv. Arakawa (Shiki City)	1.4
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	1.9
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	12
	13	Mouth of Riv. Sumida (Minato Ward)	26
Yokohama City	14	Yokohama Port	4.2
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	6.2
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	1.9
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(0.5)
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	2.3
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(0.7)
Nagano Pref.	20	Lake Suwa (center)	tr(0.6)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(0.7)
Aichi Pref.	22	Nagoya Port	2.9
Mie Pref.	23	Yokkaichi Port	tr(0.8)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	1.4
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	8.3
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	5.6
Osaka City	27	Osaka Port	9.0
Hyogo Pref.	28	Offshore of Himeji	tr(0.6)
Kobe City	29	Kobe Port (center)	2.8
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	1.5
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	1.1
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	2.1
Kagawa Pref.	38	Takamatsu Port	4.5
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(0.8)
Kitakyushu City	40	Dokai Bay	12
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(0.8)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(0.5)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(0.5)
Okinawa Pref.	47	Naha Port	1.1

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-5-2] 2,3,4,4',5-Pentachlorobiphenyl (#114) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 5/48 (Missing value : 0)

Detection Frequency (sample) : 5/48 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 0.9

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	1.8
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(0.8)
	13	Mouth of Riv. Sumida (Minato Ward)	1.8
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(0.4)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(0.6)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	tr(0.8)
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-5-3] 2,3',4,4',5-Pentachlorobiphenyl (#118) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 44/48 (Missing value : 0)

Detection Frequency (sample) : 44/48 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 0.9

	Aggregated value
Geometric mean	2.6
Median	2.3
Maximum	95
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	2.1
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	1.0
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	1.9
Akita Pref.	4	Lake Hachiro	5.7
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	2.4
Fukushima Pref.	6	Onahama Port	2.6
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	1.7
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	3.6
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	1.9
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	2.9
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	4.1
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	50
	13	Mouth of Riv. Sumida (Minato Ward)	95
Yokohama City	14	Yokohama Port	12
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	19
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	4.3
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	0.9
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	5.3
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1.5
Nagano Pref.	20	Lake Suwa (center)	1.1
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	1.5
Aichi Pref.	22	Nagoya Port	6.8
Mie Pref.	23	Yokkaichi Port	2.2
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	3.0
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	24
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	13
Osaka City	27	Osaka Port	25
Hyogo Pref.	28	Offshore of Himeji	1.8
Kobe City	29	Kobe Port (center)	8.7
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	3.4
Okayama Pref.	31	Offshore of Mizushima	tr(0.7)
Hiroshima Pref.	32	Kure Port	4.2
	33	Hiroshima Bay	1.8
Yamaguchi Pref.	34	Tokuyama Bay	tr(0.8)
	35	Offshore of Ube	tr(0.5)
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	4.1
Kagawa Pref.	38	Takamatsu Port	12
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	1.6
Kitakyushu City	40	Dokai Bay	29
Saga Pref.	41	Imari Bay	tr(0.5)
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	1.6
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(0.6)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(0.7)
Okinawa Pref.	47	Naha Port	3.0

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-5-4] 2',3,4,4',5-Pentachlorobiphenyl (#123) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 5/48 (Missing value : 0)

Detection Frequency (sample) : 5/48 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 0.9

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	1.5
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(0.7)
	13	Mouth of Riv. Sumida (Minato Ward)	1.5
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(0.5)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	tr(0.6)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	tr(0.7)
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-5-5] 3,3',4,4',5-Pentachlorobiphenyl (#126) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 4/48 (Missing value : 0)

Detection Frequency (sample) : 4/48 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 0.9

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	2.2
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(0.7)
	13	Mouth of Riv. Sumida (Minato Ward)	tr(0.6)
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	2.2
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(0.4)
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-6] Hexachlorobiphenyls/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 48/48 (Missing value : 0)

Detection Frequency (sample) : 48/48 (Missing value : 0)

Detection limit : 0.5

Quantification limit : 1.5

	Aggregated value
Geometric mean	11
Median	8.6
Maximum	220
Minimum	tr(0.5)

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	5.6
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	1.8
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	6.2
Akita Pref.	4	Lake Hachiro	23
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	6.8
Fukushima Pref.	6	Onahama Port	7.8
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	7.1
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	12
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	6.2
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	11
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	13
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	160
	13	Mouth of Riv. Sumida (Minato Ward)	220
Yokohama City	14	Yokohama Port	39
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	59
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	18
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	2.2
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	32
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	4.3
Nagano Pref.	20	Lake Suwa (center)	5.6
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	3.2
Aichi Pref.	22	Nagoya Port	21
Mie Pref.	23	Yokkaichi Port	6.1
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	14
Kyoto Pref.	25	Miyazu Port	tr(0.5)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	120
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	79
Osaka City	27	Osaka Port	110
Hyogo Pref.	28	Offshore of Himeji	9.3
Kobe City	29	Kobe Port (center)	73
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	15
Okayama Pref.	31	Offshore of Mizushima	5.5
Hiroshima Pref.	32	Kure Port	54
	33	Hiroshima Bay	12
Yamaguchi Pref.	34	Tokuyama Bay	7.6
	35	Offshore of Ube	2.1
	36	Offshore of Hagi	tr(0.9)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	19
Kagawa Pref.	38	Takamatsu Port	38
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	6.4
Kitakyushu City	40	Dokai Bay	96
Saga Pref.	41	Imari Bay	4.4
Nagasaki Pref.	42	Omura Bay	tr(1.4)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	6.1
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	2.0
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	1.6
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	3.7
Okinawa Pref.	47	Naha Port	46

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[1-6-1] 2,3,3',4,4',5-Hexachlorobiphenyl (#156) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 20/48 (Missing value : 0)

Detection Frequency (sample) : 20/48 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.0

	Aggregated value
Geometric mean	tr(0.4)
Median	nd
Maximum	4.4
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	tr(0.7)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(0.4)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweir Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(0.4)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	3.1
	13	Mouth of Riv. Sumida (Minato Ward)	4.4
Yokohama City	14	Yokohama Port	tr(0.7)
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	1.2
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(0.7)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(0.7)
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	tr(0.4)
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	tr(0.5)
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	3.0
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	1.9
Osaka City	27	Osaka Port	1.8
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	tr(0.8)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(0.4)
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	1.3
Kagawa Pref.	38	Takamatsu Port	1.1
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	1.8
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	tr(0.6)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-6-2] 2,3,3',4,4',5'-Hexachlorobiphenyl (#157) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 6/48 (Missing value : 0)

Detection Frequency (sample) : 6/48 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.0

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	1.2
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(0.8)
	13	Mouth of Riv. Sumida (Minato Ward)	1.2
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(0.8)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(0.5)
Osaka City	27	Osaka Port	tr(0.6)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	tr(0.4)
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-6-3] 2,3',4,4',5,5'-Hexachlorobiphenyl (#167) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 9/48 (Missing value : 0)

Detection Frequency (sample) : 9/48 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.0

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	2.2
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	1.6
	13	Mouth of Riv. Sumida (Minato Ward)	2.2
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(0.7)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	1.4
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(0.9)
Osaka City	27	Osaka Port	1.0
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(0.4)
Kagawa Pref.	38	Takamatsu Port	tr(0.5)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	tr(0.9)
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-6-4] 3,3',4,4',5,5'-Hexachlorobiphenyl (#169) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 0/48 (Missing value : 0)

Detection Frequency (sample) : 0/48 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.0

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

[1-7] Heptachlorobiphenyls/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 41/48 (Missing value : 0)

Detection Frequency (sample) : 41/48 (Missing value : 0)

Detection limit : 0.5

Quantification limit : 1.3

	Aggregated value
Geometric mean	2.3
Median	1.9
Maximum	43
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(0.6)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	1.4
Akita Pref.	4	Lake Hachiro	3.8
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	tr(0.6)
Fukushima Pref.	6	Onahama Port	1.4
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(0.6)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(1.0)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(0.9)
Saitama Pref.	10	Akigase-shusuiweir Weir, Riv. Arakawa (Shiki City)	tr(0.7)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	2.1
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	34
	13	Mouth of Riv. Sumida (Minato Ward)	42
Yokohama City	14	Yokohama Port	11
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	15
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	3.6
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	4.4
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	tr(0.7)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	4.8
Mie Pref.	23	Yokkaichi Port	tr(0.7)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	tr(0.6)
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	20
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	43
Osaka City	27	Osaka Port	25
Hyogo Pref.	28	Offshore of Himeji	2.0
Kobe City	29	Kobe Port (center)	35
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	2.7
Okayama Pref.	31	Offshore of Mizushima	1.8
Hiroshima Pref.	32	Kure Port	27
	33	Hiroshima Bay	2.6
Yamaguchi Pref.	34	Tokuyama Bay	4.4
	35	Offshore of Ube	3.0
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	3.6
Kagawa Pref.	38	Takamatsu Port	9.5
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(0.9)
Kitakyushu City	40	Dokai Bay	42
Saga Pref.	41	Imari Bay	2.2
Nagasaki Pref.	42	Omura Bay	tr(0.6)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	1.5
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(0.6)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	1.4
Okinawa Pref.	47	Naha Port	26

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-7-1] 2,2',3,3',4,4',5-Heptachlorobiphenyl (#170) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 21/48 (Missing value : 0)

Detection Frequency (sample) : 21/48 (Missing value : 0)

Detection limit : 0.5

Quantification limit : 1.3

	Aggregated value
Geometric mean	tr(0.6)
Median	nd
Maximum	5.1
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	tr(0.8)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweir Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(0.6)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	3.9
	13	Mouth of Riv. Sumida (Minato Ward)	5.1
Yokohama City	14	Yokohama Port	1.4
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	2.2
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(0.8)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(1.0)
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	tr(0.7)
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	3.3
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	4.5
Osaka City	27	Osaka Port	3.2
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	3.2
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(0.6)
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	2.4
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	tr(0.7)
	35	Offshore of Ube	tr(0.5)
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(1.1)
Kagawa Pref.	38	Takamatsu Port	1.5
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	3.7
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	2.5

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-7-2] 2,2',3,4,4',5,5'-Heptachlorobiphenyl (#180) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 40/48 (Missing value : 0)

Detection Frequency (sample) : 40/48 (Missing value : 0)

Detection limit : 0.5

Quantification limit : 1.3

	Aggregated value
Geometric mean	1.3
Median	tr(0.9)
Maximum	12
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(0.6)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(0.7)
Akita Pref.	4	Lake Hachiro	1.6
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	tr(0.6)
Fukushima Pref.	6	Onahama Port	tr(0.8)
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(0.6)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(1.0)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(0.9)
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	tr(0.7)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(0.9)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	8.5
	13	Mouth of Riv. Sumida (Minato Ward)	11
Yokohama City	14	Yokohama Port	3.6
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	4.4
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	1.6
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	1.9
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	tr(0.7)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	1.5
Mie Pref.	23	Yokkaichi Port	tr(0.7)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	5.3
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	12
Osaka City	27	Osaka Port	7.0
Hyogo Pref.	28	Offshore of Himeji	tr(0.7)
Kobe City	29	Kobe Port (center)	9.0
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	1.3
Okayama Pref.	31	Offshore of Mizushima	tr(0.8)
Hiroshima Pref.	32	Kure Port	7.2
	33	Hiroshima Bay	tr(1.2)
Yamaguchi Pref.	34	Tokuyama Bay	2.2
	35	Offshore of Ube	1.5
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	1.6
Kagawa Pref.	38	Takamatsu Port	2.7
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(0.9)
Kitakyushu City	40	Dokai Bay	11
Saga Pref.	41	Imari Bay	tr(1.2)
Nagasaki Pref.	42	Omura Bay	tr(0.6)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(0.9)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(0.6)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(0.9)
Okinawa Pref.	47	Naha Port	8.1

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-7-3] 2,3,3',4,4',5,5'-Heptachlorobiphenyl (#189) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 0/48 (Missing value : 0)

Detection Frequency (sample) : 0/48 (Missing value : 0)

Detection limit : 0.5

Quantification limit : 1.3

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

[1-8] Octachlorobiphenyls/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 14/48 (Missing value : 0)

Detection Frequency (sample) : 14/48 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.8

	Aggregated value
Geometric mean	tr(0.4)
Median	nd
Maximum	9.1
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	4.8
	13	Mouth of Riv. Sumida (Minato Ward)	5.7
Yokohama City	14	Yokohama Port	1.5
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	1.7
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	1.6
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	9.1
Osaka City	27	Osaka Port	3.6
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	4.8
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	3.9
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	1.8
	35	Offshore of Ube	1.2
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	1.2
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	7.3
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	4.7

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-9] Nonachlorobiphenyls/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 11/48 (Missing value : 0)

Detection Frequency (sample) : 11/48 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.6

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	1.2
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(0.2)
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	0.7
	13	Mouth of Riv. Sumida (Minato Ward)	0.9
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(0.4)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(0.2)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(0.5)
Osaka City	27	Osaka Port	tr(0.3)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	tr(0.2)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	tr(0.2)
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	1.2
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	tr(0.4)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-10] Decachlorobiphenyl/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 23/48 (Missing value : 0)

Detection Frequency (sample) : 23/48 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.6

	Aggregated value
Geometric mean	tr(0.2)
Median	nd
Maximum	8.8
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(0.3)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(0.3)
Akita Pref.	4	Lake Hachiro	0.7
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	0.6
Fukushima Pref.	6	Onahama Port	0.6
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(0.3)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	0.6
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	1.6
	13	Mouth of Riv. Sumida (Minato Ward)	1.2
Yokohama City	14	Yokohama Port	tr(0.4)
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(0.2)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(0.5)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(0.2)
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(0.3)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	tr(0.3)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(0.2)
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	tr(0.3)
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	tr(0.4)
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	tr(0.2)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(0.4)
Kitakyushu City	40	Dokai Bay	8.8
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(0.3)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	tr(0.3)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[2] HCB (Hexachlorobenzene) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 48/48 (Missing value : 0)

Detection Frequency (sample) : 48/48 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.8

	Aggregated value
Geometric mean	5.3
Median	4.0
Maximum	70
Minimum	1.6

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	14
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	4.7
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	2.9
Akita Pref.	4	Lake Hachiro	5.0
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	6.7
Fukushima Pref.	6	Onahama Port	70
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	18
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	5.9
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	33
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	18
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	3.9
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	18
	13	Mouth of Riv. Sumida (Minato Ward)	11
Yokohama City	14	Yokohama Port	3.3
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	6.2
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	21
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	6.2
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	12
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	4.0
Nagano Pref.	20	Lake Suwa (center)	9.4
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	4.6
Aichi Pref.	22	Nagoya Port	4.1
Mie Pref.	23	Yokkaichi Port	2.7
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	3.0
Kyoto Pref.	25	Miyazu Port	1.9
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	7.8
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	5.7
Osaka City	27	Osaka Port	6.7
Hyogo Pref.	28	Offshore of Himeji	1.9
Kobe City	29	Kobe Port (center)	2.2
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	4.0
Okayama Pref.	31	Offshore of Mizushima	3.2
Hiroshima Pref.	32	Kure Port	1.8
	33	Hiroshima Bay	1.6
Yamaguchi Pref.	34	Tokuyama Bay	6.2
	35	Offshore of Ube	2.4
	36	Offshore of Hagi	1.9
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	2.9
Kagawa Pref.	38	Takamatsu Port	2.7
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	2.8
Kitakyushu City	40	Dokai Bay	66
Saga Pref.	41	Imari Bay	2.8
Nagasaki Pref.	42	Omura Bay	3.5
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	5.0
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	3.2
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	3.6
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	3.7
Okinawa Pref.	47	Naha Port	1.6

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[11-1] α -HCH /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 48/48 (Missing value : 0)

Detection Frequency (sample) : 48/48 (Missing value : 0)

Detection limit : 0.5

Quantification limit : 1.2

	Aggregated value
Geometric mean	24
Median	21
Maximum	430
Minimum	1.9

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	56
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	14
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	22
Akita Pref.	4	Lake Hachiro	160
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	37
Fukushima Pref.	6	Onahama Port	25
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	45
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	48
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	430
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	120
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	23
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	74
	13	Mouth of Riv. Sumida (Minato Ward)	59
Yokohama City	14	Yokohama Port	21
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	23
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	80
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	9.9
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	38
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	4.1
Nagano Pref.	20	Lake Suwa (center)	23
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	8.6
Aichi Pref.	22	Nagoya Port	29
Mie Pref.	23	Yokkaichi Port	23
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	120
Kyoto Pref.	25	Miyazu Port	7.6
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	81
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	79
Osaka City	27	Osaka Port	160
Hyogo Pref.	28	Offshore of Himeji	11
Kobe City	29	Kobe Port (center)	21
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	13
Okayama Pref.	31	Offshore of Mizushima	10
Hiroshima Pref.	32	Kure Port	9.1
	33	Hiroshima Bay	9.5
Yamaguchi Pref.	34	Tokuyama Bay	17
	35	Offshore of Ube	12
	36	Offshore of Hagi	5.3
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	13
Kagawa Pref.	38	Takamatsu Port	18
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	5.6
Kitakyushu City	40	Dokai Bay	210
Saga Pref.	41	Imari Bay	15
Nagasaki Pref.	42	Omura Bay	8.3
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	16
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	20
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	8.8
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	11
Okinawa Pref.	47	Naha Port	1.9

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[11-2] β -HCH /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 48/48 (Missing value : 0)

Detection Frequency (sample) : 48/48 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.6

	Aggregated value
Geometric mean	76
Median	69
Maximum	540
Minimum	9.5

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	320
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	24
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	59
Akita Pref.	4	Lake Hachiro	540
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	120
Fukushima Pref.	6	Onahama Port	84
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	130
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	93
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	360
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	200
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	75
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	180
	13	Mouth of Riv. Sumida (Minato Ward)	140
Yokohama City	14	Yokohama Port	60
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	66
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	140
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	19
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	88
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	9.5
Nagano Pref.	20	Lake Suwa (center)	75
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	18
Aichi Pref.	22	Nagoya Port	75
Mie Pref.	23	Yokkaichi Port	35
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	290
Kyoto Pref.	25	Miyazu Port	34
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	260
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	290
Osaka City	27	Osaka Port	420
Hyogo Pref.	28	Offshore of Himeji	61
Kobe City	29	Kobe Port (center)	85
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	49
Okayama Pref.	31	Offshore of Mizushima	39
Hiroshima Pref.	32	Kure Port	34
	33	Hiroshima Bay	35
Yamaguchi Pref.	34	Tokuyama Bay	68
	35	Offshore of Ube	48
	36	Offshore of Hagi	29
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	65
Kagawa Pref.	38	Takamatsu Port	80
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	14
Kitakyushu City	40	Dokai Bay	340
Saga Pref.	41	Imari Bay	45
Nagasaki Pref.	42	Omura Bay	35
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	64
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	70
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	51
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	240
Okinawa Pref.	47	Naha Port	24

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[11-3] γ -HCH (synonym: Lindane) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 48/48 (Missing value : 0)

Detection Frequency (sample) : 48/48 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.8

	Aggregated value
Geometric mean	9.3
Median	8.0
Maximum	120
Minimum	tr(0.6)

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	20
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	18
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	9.1
Akita Pref.	4	Lake Hachiro	26
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	9.1
Fukushima Pref.	6	Onahama Port	11
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	17
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	120
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	27
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	12
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	16
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	41
	13	Mouth of Riv. Sumida (Minato Ward)	56
Yokohama City	14	Yokohama Port	11
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	13
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	75
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	3.8
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	15
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1.1
Nagano Pref.	20	Lake Suwa (center)	7.4
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	5.2
Aichi Pref.	22	Nagoya Port	7.5
Mie Pref.	23	Yokkaichi Port	5.3
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	37
Kyoto Pref.	25	Miyazu Port	2.4
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	59
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	55
Osaka City	27	Osaka Port	55
Hyogo Pref.	28	Offshore of Himeji	5.1
Kobe City	29	Kobe Port (center)	9.0
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	5.1
Okayama Pref.	31	Offshore of Mizushima	4.9
Hiroshima Pref.	32	Kure Port	4.3
	33	Hiroshima Bay	4.2
Yamaguchi Pref.	34	Tokuyama Bay	4.2
	35	Offshore of Ube	4.3
	36	Offshore of Hagi	1.8
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	5.5
Kagawa Pref.	38	Takamatsu Port	7.2
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	3.0
Kitakyushu City	40	Dokai Bay	58
Saga Pref.	41	Imari Bay	2.4
Nagasaki Pref.	42	Omura Bay	2.8
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	5.6
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	8.4
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	4.0
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	3.0
Okinawa Pref.	47	Naha Port	tr(0.6)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[11-4] δ -HCH /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 41/48 (Missing value : 0)

Detection Frequency (sample) : 41/48 (Missing value : 0)

Detection limit : 0.7

Quantification limit : 1.8

	Aggregated value
Geometric mean	3.6
Median	3.0
Maximum	90
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	19
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	65
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	2.1
Akita Pref.	4	Lake Hachiro	26
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	10
Fukushima Pref.	6	Onahama Port	2.5
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	7.3
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	15
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	23
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	18
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	2.8
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	17
	13	Mouth of Riv. Sumida (Minato Ward)	9.6
Yokohama City	14	Yokohama Port	2.3
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	2.3
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	18
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	2.4
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	6.1
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	6.5
Nagano Pref.	20	Lake Suwa (center)	5.8
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(1.1)
Aichi Pref.	22	Nagoya Port	2.0
Mie Pref.	23	Yokkaichi Port	2.3
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	15
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	11
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	15
Osaka City	27	Osaka Port	20
Hyogo Pref.	28	Offshore of Himeji	3.1
Kobe City	29	Kobe Port (center)	3.8
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	2.0
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	2.8
	35	Offshore of Ube	tr(1.0)
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(1.5)
Kagawa Pref.	38	Takamatsu Port	3.2
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(0.7)
Kitakyushu City	40	Dokai Bay	90
Saga Pref.	41	Imari Bay	tr(1.6)
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	2.5
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	4.6
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	3.0
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	3.0
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14] Polybromodiphenyl ethers(Br4~Br10) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 45/48 (Missing value : 0)

Detection Frequency (sample) : 45/48 (Missing value : 0)

Detection limit : *15

Quantification limit : *39

	Aggregated value
Geometric mean	110
Median	100
Maximum	6,300
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(34)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	160
Akita Pref.	4	Lake Hachiro	96
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	tr(31)
Fukushima Pref.	6	Onahama Port	200
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	380
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	160
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	110
Saitama Pref.	10	Akigase-shusuiweir Weir, Riv. Arakawa (Shiki City)	160
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	320
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	920
	13	Mouth of Riv. Sumida (Minato Ward)	710
Yokohama City	14	Yokohama Port	120
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	76
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	330
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	1,300
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	180
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	tr(32)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(30)
Aichi Pref.	22	Nagoya Port	570
Mie Pref.	23	Yokkaichi Port	130
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	43
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	1,200
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	400
Osaka City	27	Osaka Port	400
Hyogo Pref.	28	Offshore of Himeji	tr(27)
Kobe City	29	Kobe Port (center)	1,500
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	210
Okayama Pref.	31	Offshore of Mizushima	tr(28)
Hiroshima Pref.	32	Kure Port	tr(36)
	33	Hiroshima Bay	53
Yamaguchi Pref.	34	Tokuyama Bay	6,300
	35	Offshore of Ube	160
	36	Offshore of Hagi	tr(26)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	50
Kagawa Pref.	38	Takamatsu Port	260
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	65
Kitakyushu City	40	Dokai Bay	220
Saga Pref.	41	Imari Bay	tr(16)
Nagasaki Pref.	42	Omura Bay	75
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	80
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	55
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(19)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	49
Okinawa Pref.	47	Naha Port	40

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

(Note 5) * : Indicates the sum value of the Quantification [Detection] limits of each congeners.

[14-1] Tetrabromodiphenyl ethers /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 48/48 (Missing value : 0)

Detection Frequency (sample) : 48/48 (Missing value : 0)

Detection limit : 2

Quantification limit : 6

	Aggregated value
Geometric mean	tr(4)
Median	tr(3)
Maximum	140
Minimum	tr(2)

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(4)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(3)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	97
Akita Pref.	4	Lake Hachiro	tr(3)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	tr(3)
Fukushima Pref.	6	Onahama Port	140
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(3)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(3)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(4)
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	tr(4)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(4)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(5)
	13	Mouth of Riv. Sumida (Minato Ward)	9
Yokohama City	14	Yokohama Port	6
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(3)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(4)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(3)
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(4)
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(3)
Nagano Pref.	20	Lake Suwa (center)	tr(3)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	8
Aichi Pref.	22	Nagoya Port	31
Mie Pref.	23	Yokkaichi Port	tr(3)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	tr(3)
Kyoto Pref.	25	Miyazu Port	tr(3)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	8
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(5)
Osaka City	27	Osaka Port	tr(5)
Hyogo Pref.	28	Offshore of Himeji	tr(3)
Kobe City	29	Kobe Port (center)	tr(4)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(3)
Okayama Pref.	31	Offshore of Mizushima	tr(3)
Hiroshima Pref.	32	Kure Port	tr(4)
	33	Hiroshima Bay	tr(3)
Yamaguchi Pref.	34	Tokuyama Bay	tr(2)
	35	Offshore of Ube	tr(3)
	36	Offshore of Hagi	tr(2)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(2)
Kagawa Pref.	38	Takamatsu Port	10
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	17
Kitakyushu City	40	Dokai Bay	tr(3)
Saga Pref.	41	Imari Bay	tr(2)
Nagasaki Pref.	42	Omura Bay	tr(3)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(2)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(2)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(3)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(5)
Okinawa Pref.	47	Naha Port	tr(3)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[14-1-1] 2,2',4,4'-Tetrabromodiphenyl ether (#47) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 48/48 (Missing value : 0)

Detection Frequency (sample) : 48/48 (Missing value : 0)

Detection limit : 2

Quantification limit : 6

	Aggregated value
Geometric mean	tr(4)
Median	tr(3)
Maximum	130
Minimum	tr(2)

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(4)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(3)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	95
Akita Pref.	4	Lake Hachiro	tr(3)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	tr(3)
Fukushima Pref.	6	Onahama Port	130
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(3)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(3)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(4)
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	tr(4)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(4)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(5)
	13	Mouth of Riv. Sumida (Minato Ward)	9
Yokohama City	14	Yokohama Port	6
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(3)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(4)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(3)
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(4)
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(3)
Nagano Pref.	20	Lake Suwa (center)	tr(3)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	8
Aichi Pref.	22	Nagoya Port	8
Mie Pref.	23	Yokkaichi Port	tr(3)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	tr(3)
Kyoto Pref.	25	Miyazu Port	tr(3)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	8
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(5)
Osaka City	27	Osaka Port	tr(5)
Hyogo Pref.	28	Offshore of Himeji	tr(3)
Kobe City	29	Kobe Port (center)	tr(4)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(3)
Okayama Pref.	31	Offshore of Mizushima	tr(3)
Hiroshima Pref.	32	Kure Port	tr(4)
	33	Hiroshima Bay	tr(3)
Yamaguchi Pref.	34	Tokuyama Bay	tr(2)
	35	Offshore of Ube	tr(3)
	36	Offshore of Hagi	tr(2)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(2)
Kagawa Pref.	38	Takamatsu Port	10
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	17
Kitakyushu City	40	Dokai Bay	tr(3)
Saga Pref.	41	Imari Bay	tr(2)
Nagasaki Pref.	42	Omura Bay	tr(3)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(2)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(2)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(3)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(5)
Okinawa Pref.	47	Naha Port	tr(3)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[14-2] Pentabromodiphenyl ethers /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 40/48 (Missing value : 0)

Detection Frequency (sample) : 40/48 (Missing value : 0)

Detection limit : 0.9

Quantification limit : 2.4

	Aggregated value
Geometric mean	tr(1.7)
Median	tr(1.4)
Maximum	31
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(1.4)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(1.2)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	22
Akita Pref.	4	Lake Hachiro	tr(1.1)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	tr(1.0)
Fukushima Pref.	6	Onahama Port	31
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(1.0)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(1.2)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(1.8)
Saitama Pref.	10	Akigase-shusuiweir Weir, Riv. Arakawa (Shiki City)	3.9
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(2.1)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	4.4
	13	Mouth of Riv. Sumida (Minato Ward)	8.4
Yokohama City	14	Yokohama Port	3.3
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(1.8)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(1.8)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(1.5)
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	2.9
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(1.1)
Nagano Pref.	20	Lake Suwa (center)	tr(1.1)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	3.7
Aichi Pref.	22	Nagoya Port	21
Mie Pref.	23	Yokkaichi Port	tr(1.2)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	tr(1.2)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	4.0
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(2.3)
Osaka City	27	Osaka Port	tr(2.2)
Hyogo Pref.	28	Offshore of Himeji	tr(1.2)
Kobe City	29	Kobe Port (center)	tr(1.3)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(1.0)
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	tr(1.3)
	33	Hiroshima Bay	tr(2.1)
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	tr(1.5)
	36	Offshore of Hagi	tr(1.4)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(1.1)
Kagawa Pref.	38	Takamatsu Port	4.0
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	4.7
Kitakyushu City	40	Dokai Bay	tr(2.2)
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(1.3)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	3.6
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-2-1] 2,2',4,4',5-Pentabromodiphenyl ether (#99) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 40/48 (Missing value : 0)

Detection Frequency (sample) : 40/48 (Missing value : 0)

Detection limit : 0.9

Quantification limit : 2.4

	Aggregated value
Geometric mean	tr(1.5)
Median	tr(1.4)
Maximum	21
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(1.4)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(1.2)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	12
Akita Pref.	4	Lake Hachiro	tr(1.1)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	tr(1.0)
Fukushima Pref.	6	Onahama Port	21
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(1.0)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(1.2)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(1.8)
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	2.8
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(2.1)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	3.2
	13	Mouth of Riv. Sumida (Minato Ward)	6.5
Yokohama City	14	Yokohama Port	2.4
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(1.8)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(1.8)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(1.5)
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(1.9)
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(1.1)
Nagano Pref.	20	Lake Suwa (center)	tr(1.1)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	2.5
Aichi Pref.	22	Nagoya Port	4.0
Mie Pref.	23	Yokkaichi Port	tr(1.2)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	tr(1.2)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	2.9
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(2.3)
Osaka City	27	Osaka Port	tr(2.2)
Hyogo Pref.	28	Offshore of Himeji	tr(1.2)
Kobe City	29	Kobe Port (center)	tr(1.3)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(1.0)
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	tr(1.3)
	33	Hiroshima Bay	tr(2.1)
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	tr(1.5)
	36	Offshore of Hagi	tr(1.4)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(1.1)
Kagawa Pref.	38	Takamatsu Port	2.4
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	3.2
Kitakyushu City	40	Dokai Bay	tr(2.2)
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(1.3)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	2.5
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-3] Hexabromodiphenyl ethers /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 5/48 (Missing value : 0)

Detection Frequency (sample) : 5/48 (Missing value : 0)

Detection limit : 1

Quantification limit : 3

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	10
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	4
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	4
	13	Mouth of Riv. Sumida (Minato Ward)	tr(1)
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	10
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	tr(2)
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-3-1] 2,2',4,4',5,5'-Hexabromodiphenyl ether (#153) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 3/48 (Missing value : 0)

Detection Frequency (sample) : 3/48 (Missing value : 0)

Detection limit : 1

Quantification limit : 3

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(2)
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	tr(2)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(2)
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	tr(1)
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-3-2] 2,2',4,4',5,6'-Hexabromodiphenyl ether (#154) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 2/48 (Missing value : 0)

Detection Frequency (sample) : 2/48 (Missing value : 0)

Detection limit : 1

Quantification limit : 3

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(2)
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	tr(1)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	tr(2)
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-4] Heptabromodiphenyl ethers /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 1/48 (Missing value : 0)

Detection Frequency (sample) : 1/48 (Missing value : 0)

Detection limit : 3

Quantification limit : 8

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(6)
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweir Weir, Riv. Arakawa (Shiki City)	tr(6)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-4-1] 2,2',3,3',4,5',6-Heptabromodiphenyl ether (#175) /surface water (pg/L) and

[14-4-2] 2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 1/48 (Missing value : 0)

Detection Frequency (sample) : 1/48 (Missing value : 0)

Detection limit : 3

Quantification limit : 8

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(6)
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	tr(6)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-5] Octabromodiphenyl ethers /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 17/48 (Missing value : 0)

Detection Frequency (sample) : 17/48 (Missing value : 0)

Detection limit : 0.8

Quantification limit : 2.0

	Aggregated value
Geometric mean	tr(0.9)
Median	nd
Maximum	26
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(0.9)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	2.1
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(1.8)
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	9.7
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(1.8)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	8.8
	13	Mouth of Riv. Sumida (Minato Ward)	7.0
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(1.8)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	8.4
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	2.0
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	7.4
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	4.2
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	6.0
Osaka City	27	Osaka Port	tr(1.8)
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	7.8
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	26
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	tr(0.8)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-6] Nonabromodiphenyl ethers /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 25/48 (Missing value : 0)

Detection Frequency (sample) : 25/48 (Missing value : 0)

Detection limit : 4

Quantification limit : 10

	Aggregated value
Geometric mean	tr(8)
Median	tr(5)
Maximum	670
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	tr(9)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	40
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	21
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	17
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	24
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	38
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	65
	13	Mouth of Riv. Sumida (Minato Ward)	48
Yokohama City	14	Yokohama Port	tr(9)
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(4)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	28
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	210
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	24
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	58
Mie Pref.	23	Yokkaichi Port	10
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	80
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	41
Osaka City	27	Osaka Port	36
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	170
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	25
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	670
	35	Offshore of Ube	18
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	24
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	21
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	tr(6)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-7] Decabromodiphenyl ether /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 48/48 (Missing value : 0)

Detection Frequency (sample) : 48/48 (Missing value : 0)

Detection limit : 3

Quantification limit : 8

	Aggregated value
Geometric mean	89
Median	72
Maximum	5,600
Minimum	tr(7)

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	29
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(7)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	46
Akita Pref.	4	Lake Hachiro	83
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	27
Fukushima Pref.	6	Onahama Port	32
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	340
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	130
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	88
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	110
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	270
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	830
	13	Mouth of Riv. Sumida (Minato Ward)	640
Yokohama City	14	Yokohama Port	100
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	67
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	290
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	1,100
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	150
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	10
Nagano Pref.	20	Lake Suwa (center)	28
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	18
Aichi Pref.	22	Nagoya Port	440
Mie Pref.	23	Yokkaichi Port	120
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	40
Kyoto Pref.	25	Miyazu Port	9
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	1,100
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	350
Osaka City	27	Osaka Port	350
Hyogo Pref.	28	Offshore of Himeji	23
Kobe City	29	Kobe Port (center)	1,300
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	180
Okayama Pref.	31	Offshore of Mizushima	25
Hiroshima Pref.	32	Kure Port	31
	33	Hiroshima Bay	48
Yamaguchi Pref.	34	Tokuyama Bay	5,600
	35	Offshore of Ube	140
	36	Offshore of Hagi	23
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	47
Kagawa Pref.	38	Takamatsu Port	220
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	43
Kitakyushu City	40	Dokai Bay	190
Saga Pref.	41	Imari Bay	14
Nagasaki Pref.	42	Omura Bay	66
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	78
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	53
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	15
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	40
Okinawa Pref.	47	Naha Port	37

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[15] Perfluorooctane sulfonic acid (PFOS) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 46/48 (Missing value : 0)

Detection Frequency (sample) : 46/48 (Missing value : 0)

Detection limit : 30

Quantification limit : 80

	Aggregated value
Geometric mean	270
Median	220
Maximum	3,600
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	90
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	80
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(70)
Akita Pref.	4	Lake Hachiro	250
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	270
Fukushima Pref.	6	Onahama Port	tr(70)
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	840
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	1,500
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	950
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	1,300
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	1,800
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	2,400
	13	Mouth of Riv. Sumida (Minato Ward)	3,600
Yokohama City	14	Yokohama Port	620
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,100
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	280
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	100
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	1,700
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	90
Nagano Pref.	20	Lake Suwa (center)	360
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	110
Aichi Pref.	22	Nagoya Port	700
Mie Pref.	23	Yokkaichi Port	160
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	470
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	2,300
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	3,500
Osaka City	27	Osaka Port	1,600
Hyogo Pref.	28	Offshore of Himeji	170
Kobe City	29	Kobe Port (center)	420
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	170
Okayama Pref.	31	Offshore of Mizushima	210
Hiroshima Pref.	32	Kure Port	190
	33	Hiroshima Bay	170
Yamaguchi Pref.	34	Tokuyama Bay	tr(70)
	35	Offshore of Ube	tr(60)
	36	Offshore of Hagi	90
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	130
Kagawa Pref.	38	Takamatsu Port	380
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	230
Saga Pref.	41	Imari Bay	tr(30)
Nagasaki Pref.	42	Omura Bay	140
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	440
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	170
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	100
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	300
Okinawa Pref.	47	Naha Port	190

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[16] Perfluorooctanoic acid (PFOA) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 48/48 (Missing value : 0)

Detection Frequency (sample) : 48/48 (Missing value : 0)

Detection limit : 30

Quantification limit : 90

	Aggregated value
Geometric mean	1,100
Median	980
Maximum	14,000
Minimum	170

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	1,300
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	310
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	520
Akita Pref.	4	Lake Hachiro	2,100
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	660
Fukushima Pref.	6	Onahama Port	780
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	2,900
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	2,000
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	4,000
Saitama Pref.	10	Akigase-shusuiweir Weir, Riv. Arakawa (Shiki City)	2,700
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	2,500
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	2,700
	13	Mouth of Riv. Sumida (Minato Ward)	2,600
Yokohama City	14	Yokohama Port	990
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,500
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	1,100
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	430
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	14,000
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	370
Nagano Pref.	20	Lake Suwa (center)	650
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	720
Aichi Pref.	22	Nagoya Port	950
Mie Pref.	23	Yokkaichi Port	630
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	3,400
Kyoto Pref.	25	Miyazu Port	980
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	7,200
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	8,300
Osaka City	27	Osaka Port	7,500
Hyogo Pref.	28	Offshore of Himeji	750
Kobe City	29	Kobe Port (center)	3,200
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	1,200
Okayama Pref.	31	Offshore of Mizushima	750
Hiroshima Pref.	32	Kure Port	370
	33	Hiroshima Bay	440
Yamaguchi Pref.	34	Tokuyama Bay	270
	35	Offshore of Ube	360
	36	Offshore of Hagi	1,300
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	580
Kagawa Pref.	38	Takamatsu Port	1,300
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	340
Kitakyushu City	40	Dokai Bay	1,200
Saga Pref.	41	Imari Bay	980
Nagasaki Pref.	42	Omura Bay	950
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	1,200
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	970
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	190
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	430
Okinawa Pref.	47	Naha Port	170

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[17] Pentachlorobenzene /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 48/48 (Missing value : 0)

Detection Frequency (sample) : 48/48 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.5

	Aggregated value
Geometric mean	4.5
Median	3.5
Maximum	51
Minimum	0.9

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	11
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	2.7
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	2.3
Akita Pref.	4	Lake Hachiro	4.0
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	4.9
Fukushima Pref.	6	Onahama Port	15
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	35
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	6.4
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	51
Saitama Pref.	10	Akigase-shusuiweir Weir, Riv. Arakawa (Shiki City)	20
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	5.9
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	28
	13	Mouth of Riv. Sumida (Minato Ward)	13
Yokohama City	14	Yokohama Port	3.9
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	6.8
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	19
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintu (Toyama City)	5.4
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	5.1
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	2.2
Nagano Pref.	20	Lake Suwa (center)	12
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	2.4
Aichi Pref.	22	Nagoya Port	23
Mie Pref.	23	Yokkaichi Port	2.2
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	1.7
Kyoto Pref.	25	Miyazu Port	1.0
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	9.4
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	8.0
Osaka City	27	Osaka Port	6.2
Hyogo Pref.	28	Offshore of Himeji	1.8
Kobe City	29	Kobe Port (center)	2.9
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	3.1
Okayama Pref.	31	Offshore of Mizushima	2.0
Hiroshima Pref.	32	Kure Port	1.5
	33	Hiroshima Bay	1.2
Yamaguchi Pref.	34	Tokuyama Bay	6.0
	35	Offshore of Ube	1.3
	36	Offshore of Hagi	0.9
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	2.1
Kagawa Pref.	38	Takamatsu Port	2.4
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	1.4
Kitakyushu City	40	Dokai Bay	27
Saga Pref.	41	Imari Bay	1.6
Nagasaki Pref.	42	Omura Bay	21
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	3.0
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	2.4
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	1.6
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	1.6
Okinawa Pref.	47	Naha Port	1.3

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[19] 1,2,5,6,9,10-Hexabromocyclododecanes /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 0/48 (Missing value : 0)

Detection Frequency (sample) : 0/48 (Missing value : 0)

Detection limit : *1,200

Quantification limit : *2,800

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

(Note 4) * : Indicates the sum value of the Quantification [Detection] limits of each target chemicals.

[19-1] α -1,2,5,6,9,10-Hexabromocyclododecane /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 0/48 (Missing value : 0)

Detection Frequency (sample) : 0/48 (Missing value : 0)

Detection limit : 200

Quantification limit : 600

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

[19-2] β -1,2,5,6,9,10-Hexabromocyclododecane /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 0/48 (Missing value : 0)

Detection Frequency (sample) : 0/48 (Missing value : 0)

Detection limit : 200

Quantification limit : 500

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

[19-3] γ -1,2,5,6,9,10-Hexabromocyclododecane /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 0/48 (Missing value : 0)

Detection Frequency (sample) : 0/48 (Missing value : 0)

Detection limit : 300

Quantification limit : 600

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

[19-4] δ -1,2,5,6,9,10-Hexabromocyclododecane /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 0/48 (Missing value : 0)

Detection Frequency (sample) : 0/48 (Missing value : 0)

Detection limit : 300

Quantification limit : 700

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

[19-5] ε -1,2,5,6,9,10-Hexabromocyclododecane /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 0/48 (Missing value : 0)

Detection Frequency (sample) : 0/48 (Missing value : 0)

Detection limit : 200

Quantification limit : 400

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

[21] Hexachlorobuta-1,3-diene/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 0/48 (Missing value : 0)

Detection Frequency (sample) : 0/48 (Missing value : 0)

Detection limit : 40

Quantification limit : 100

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	nd
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	6	Onahama Port	nd
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	nd
Saitama Pref.	10	Akigase-shusuiweir Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	nd
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	nd
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	nd
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

[23] Short-chain chlorinated paraffins/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 33/48 (Missing value : 0)

Detection Frequency (sample) : 33/48 (Missing value : 0)

Detection limit : *900

Quantification limit : *2,700

	Aggregated value
Geometric mean	tr(1,000)
Median	tr(1,000)
Maximum	9,600
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(1,200)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(2,200)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	3,100
Akita Pref.	4	Lake Hachiro	tr(900)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	3,700
Fukushima Pref.	6	Onahama Port	4,700
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(1,300)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(900)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(1,200)
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	tr(900)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(1,500)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(900)
	13	Mouth of Riv. Sumida (Minato Ward)	tr(2,000)
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(1,600)
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	tr(1,200)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(2,200)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(1,600)
Osaka City	27	Osaka Port	tr(1,600)
Hyogo Pref.	28	Offshore of Himeji	tr(1,000)
Kobe City	29	Kobe Port (center)	tr(900)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(1,200)
Okayama Pref.	31	Offshore of Mizushima	tr(1,800)
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	tr(1,500)
	35	Offshore of Ube	tr(1,300)
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	tr(1,700)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(1,500)
Kitakyushu City	40	Dokai Bay	tr(1,000)
Saga Pref.	41	Imari Bay	9,600
Nagasaki Pref.	42	Omura Bay	tr(1,100)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(1,000)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(1,000)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(900)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(1,300)
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

(Note 5) * : Indicates the sum value of the Quantification [Detection] limits of each substance with the same number of carbons in the alkyl group.

[23-1] Chlorinated decanes/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 47/48 (Missing value : 0)

Detection Frequency (sample) : 47/48 (Missing value : 0)

Detection limit : 100

Quantification limit : 300

	Aggregated value
Geometric mean	tr(200)
Median	tr(200)
Maximum	1,100
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	300
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(200)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	400
Akita Pref.	4	Lake Hachiro	tr(200)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	700
Fukushima Pref.	6	Onahama Port	600
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	300
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(200)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(200)
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	tr(200)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(200)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(200)
	13	Mouth of Riv. Sumida (Minato Ward)	300
Yokohama City	14	Yokohama Port	tr(100)
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(200)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(100)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(100)
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(200)
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(100)
Nagano Pref.	20	Lake Suwa (center)	tr(100)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	300
Aichi Pref.	22	Nagoya Port	tr(200)
Mie Pref.	23	Yokkaichi Port	tr(100)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	tr(100)
Kyoto Pref.	25	Miyazu Port	tr(200)
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(200)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(200)
Osaka City	27	Osaka Port	tr(100)
Hyogo Pref.	28	Offshore of Himeji	tr(100)
Kobe City	29	Kobe Port (center)	tr(100)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	31	Offshore of Mizushima	300
Hiroshima Pref.	32	Kure Port	tr(200)
	33	Hiroshima Bay	tr(200)
Yamaguchi Pref.	34	Tokuyama Bay	tr(200)
	35	Offshore of Ube	tr(200)
	36	Offshore of Hagi	tr(200)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(200)
Kagawa Pref.	38	Takamatsu Port	tr(200)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(200)
Kitakyushu City	40	Dokai Bay	tr(200)
Saga Pref.	41	Imari Bay	1,100
Nagasaki Pref.	42	Omura Bay	300
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(200)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(200)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(200)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	300
Okinawa Pref.	47	Naha Port	tr(200)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[23-2] Chlorinated undecanes/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 37/48 (Missing value : 0)

Detection Frequency (sample) : 37/48 (Missing value : 0)

Detection limit : 300

Quantification limit : 900

	Aggregated value
Geometric mean	tr(400)
Median	tr(400)
Maximum	2,200
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(500)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(500)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(600)
Akita Pref.	4	Lake Hachiro	tr(400)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	tr(800)
Fukushima Pref.	6	Onahama Port	tr(800)
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(400)
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(400)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(400)
Saitama Pref.	10	Akigase-shusuiweir Weir, Riv. Arakawa (Shiki City)	tr(300)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(400)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(400)
	13	Mouth of Riv. Sumida (Minato Ward)	tr(600)
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(300)
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(600)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(500)
Osaka City	27	Osaka Port	900
Hyogo Pref.	28	Offshore of Himeji	tr(400)
Kobe City	29	Kobe Port (center)	tr(400)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(400)
Okayama Pref.	31	Offshore of Mizushima	tr(500)
Hiroshima Pref.	32	Kure Port	tr(300)
	33	Hiroshima Bay	tr(300)
Yamaguchi Pref.	34	Tokuyama Bay	tr(400)
	35	Offshore of Ube	tr(400)
	36	Offshore of Hagi	tr(300)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(300)
Kagawa Pref.	38	Takamatsu Port	tr(600)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(500)
Kitakyushu City	40	Dokai Bay	tr(400)
Saga Pref.	41	Imari Bay	2,200
Nagasaki Pref.	42	Omura Bay	tr(400)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(400)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(400)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(300)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(500)
Okinawa Pref.	47	Naha Port	tr(300)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[23-3] Chlorinated dodecanes/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 17/48 (Missing value : 0)

Detection Frequency (sample) : 17/48 (Missing value : 0)

Detection limit : 300

Quantification limit : 900

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	2,400
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(400)
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	1,000
Akita Pref.	4	Lake Hachiro	nd
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	1,000
Fukushima Pref.	6	Onahama Port	1,400
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(300)
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	nd
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	tr(300)
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	nd
	13	Mouth of Riv. Sumida (Minato Ward)	tr(400)
Yokohama City	14	Yokohama Port	nd
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	nd
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(300)
Aichi Pref.	22	Nagoya Port	nd
Mie Pref.	23	Yokkaichi Port	nd
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(700)
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(400)
Osaka City	27	Osaka Port	nd
Hyogo Pref.	28	Offshore of Himeji	nd
Kobe City	29	Kobe Port (center)	nd
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(400)
Okayama Pref.	31	Offshore of Mizushima	tr(300)
Hiroshima Pref.	32	Kure Port	nd
	33	Hiroshima Bay	nd
Yamaguchi Pref.	34	Tokuyama Bay	tr(400)
	35	Offshore of Ube	tr(400)
	36	Offshore of Hagi	nd
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	38	Takamatsu Port	tr(300)
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(400)
Kitakyushu City	40	Dokai Bay	nd
Saga Pref.	41	Imari Bay	2,400
Nagasaki Pref.	42	Omura Bay	nd
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	nd
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	nd
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	47	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[23-4] Chlorinated tridecanes/surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 47/48 (Missing value : 0)

Detection Frequency (sample) : 47/48 (Missing value : 0)

Detection limit : 200

Quantification limit : 600

	Aggregated value
Geometric mean	tr(400)
Median	tr(400)
Maximum	3,900
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(400)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	1,100
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	1,100
Akita Pref.	4	Lake Hachiro	tr(300)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	1,200
Fukushima Pref.	6	Onahama Port	1,900
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	600
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(300)
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	tr(300)
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	tr(400)
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	600
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	tr(300)
	13	Mouth of Riv. Sumida (Minato Ward)	700
Yokohama City	14	Yokohama Port	tr(200)
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	tr(300)
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	tr(500)
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(300)
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	tr(400)
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	tr(300)
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	700
Aichi Pref.	22	Nagoya Port	tr(400)
Mie Pref.	23	Yokkaichi Port	tr(200)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	tr(300)
Kyoto Pref.	25	Miyazu Port	1,000
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	700
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	tr(500)
Osaka City	27	Osaka Port	600
Hyogo Pref.	28	Offshore of Himeji	tr(500)
Kobe City	29	Kobe Port (center)	tr(400)
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(400)
Okayama Pref.	31	Offshore of Mizushima	700
Hiroshima Pref.	32	Kure Port	tr(300)
	33	Hiroshima Bay	tr(200)
Yamaguchi Pref.	34	Tokuyama Bay	tr(500)
	35	Offshore of Ube	tr(300)
	36	Offshore of Hagi	tr(200)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(300)
Kagawa Pref.	38	Takamatsu Port	600
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	tr(400)
Kitakyushu City	40	Dokai Bay	tr(400)
Saga Pref.	41	Imari Bay	3,900
Nagasaki Pref.	42	Omura Bay	tr(400)
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	tr(400)
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	tr(400)
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	tr(400)
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	tr(500)
Okinawa Pref.	47	Naha Port	tr(300)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[25] Perfluorohexane sulfonic acid (PFHxS) /surface water (pg/L)

Monitored year : 2022

Detection Frequency (site) : 42/48 (Missing value : 0)

Detection Frequency (sample) : 42/48 (Missing value : 0)

Detection limit : 30

Quantification limit : 70

	Aggregated value
Geometric mean	130
Median	120
Maximum	1,800
Minimum	nd

Local communities	No.	Monitored sites	Measured value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(50)
Iwate Pref.	2	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	3	Sendai Bay (Matsushima Bay)	tr(50)
Akita Pref.	4	Lake Hachiro	tr(60)
Yamagata Pref.	5	Mouth of Riv. Mogami (Sakata City)	160
Fukushima Pref.	6	Onahama Port	tr(40)
Ibaraki Pref.	7	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	770
Tochigi Pref.	8	Tagawa Kyubun Area Head Works (Utsunomiya City)	880
Gunma Pref.	9	Tone-ozeki Weir, Riv. Tone (Chiyoda Town)	440
Saitama Pref.	10	Akigase-shusuiweki Weir, Riv. Arakawa (Shiki City)	790
Chiba City	11	Mouth of Riv. Hanami (Chiba City)	400
Tokyo Met.	12	Mouth of Riv. Arakawa (Koto Ward)	1,400
	13	Mouth of Riv. Sumida (Minato Ward)	1,800
Yokohama City	14	Yokohama Port	260
Kawasaki City	15	Front of Ougi Town, Keihin Canal, Port of Kawasaki	430
Niigata Pref.	16	Lower Riv. Shinano (Niigata City)	130
Toyama Pref.	17	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(60)
Ishikawa Pref.	18	Mouth of Riv. Sai (Kanazawa City)	1,800
Fukui Pref.	19	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Nagano Pref.	20	Lake Suwa (center)	130
Shizuoka Pref.	21	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(50)
Aichi Pref.	22	Nagoya Port	190
Mie Pref.	23	Yokkaichi Port	tr(40)
Shiga Pref.	24	Lake Biwa (center, offshore of Karasaki)	220
Kyoto Pref.	25	Miyazu Port	nd
Kyoto City	25	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	1,100
Osaka Pref.	26	Mouth of Riv. Yamato (Sakai City)	970
Osaka City	27	Osaka Port	690
Hyogo Pref.	28	Offshore of Himeji	tr(60)
Kobe City	29	Kobe Port (center)	180
Wakayama Pref.	30	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	70
Okayama Pref.	31	Offshore of Mizushima	110
Hiroshima Pref.	32	Kure Port	70
	33	Hiroshima Bay	80
Yamaguchi Pref.	34	Tokuyama Bay	nd
	35	Offshore of Ube	tr(30)
	36	Offshore of Hagi	tr(30)
Tokushima Pref.	37	Mouth of Riv. Yoshino (Tokushima City)	tr(30)
Kagawa Pref.	38	Takamatsu Port	180
Kochi Pref.	39	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	40	Dokai Bay	100
Saga Pref.	41	Imari Bay	nd
Nagasaki Pref.	42	Omura Bay	130
Kumamoto Pref.	43	Hiraki-bashi Bridge, Riv. Midori (Uto City)	570
Miyazaki Pref.	44	Mouth of Riv. Oyodo (Miyazaki City)	100
Kagoshima Pref.	45	Shinkawa-bashi Bridge, Riv. Amori (Kirishima City)	120
	46	Gotanda-bashi Bridge, Riv. Gotanda (Ichikikushikino City)	140
Okinawa Pref.	47	Naha Port	110

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1] Total Polychlorinated biphenyls (Total PCBs)/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : *3

Quantification limit : *7

	Aggregated value
Geometric mean	4,600
Median	4,800
Maximum	340,000
Minimum	20

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	870
	2	Tomakomai Port	4,300
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	220
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	3,200
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	160
Akita Pref.	6	Lake Hachiro	1,500
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	1,500
Fukushima Pref.	8	Onahama Port	17,000
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	1,600
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	250
Chiba Pref.	11	Coast of Ichihara and Anegasaki	20,000
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	560
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	37,000
	14	Mouth of Riv. Sumida (Minato Ward)	250,000
Yokohama City	15	Yokohama Port	57,000
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	33,000
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	93,000
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	520
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	360
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	5,300
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	8,200
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	360
Nagano Pref.	23	Lake Suwa (center)	3,700
Shizuoka Pref.	24	Shimizu Port	11,000
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	460
Aichi Pref.	26	Kinuura Port	2,300
	27	Nagoya Port	9,400
Mie Pref.	28	Yokkaichi Port	140,000
	29	Toba Port	12,000
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	4,800
	31	Lake Biwa (center, offshore of Karasaki)	8,500
Kyoto Pref.	32	Miyazu Port	1,400
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	5,100
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	26,000
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	41,000
	36	Mouth of Riv. Yodo (Osaka City)	29,000
	37	Osaka Port	340,000
	38	Outside Osaka Port	100,000
Hyogo Pref.	39	Offshore of Himeji	10,000
Kobe City	40	Kobe Port (center)	120,000
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	1,100
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	12,000
Okayama Pref.	43	Offshore of Mizushima	1,700
Hiroshima Pref.	44	Kure Port	66,000
	45	Hiroshima Bay	8,800
Yamaguchi Pref.	46	Tokuyama Bay	3,300
	47	Offshore of Ube	4,700
	48	Offshore of Hagi	950
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	320
Kagawa Pref.	50	Takamatsu Port	56,000
Ehime Pref.	51	Niihama Port	3,900
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	690
Kitakyushu City	53	Dokai Bay	240,000
Fukuoka City	54	Hakata Bay	5,900
Saga Pref.	55	Imari Bay	6,000
Nagasaki Pref.	56	Omura Bay	4,400
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	440
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	35
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	20
	60	Riv. Gotanda (Ichikikushikino City)	23
Okinawa Pref.	61	Naha Port	73,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) * : Indicates the sum value of the Quantification [Detection] limits of each congeners.

[1-1] Monochlorobiphenyls/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.1

Quantification limit : 0.4

	Aggregated value
Geometric mean	23
Median	33
Maximum	2,400
Minimum	tr(0.2)

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	4.4
	2	Tomakomai Port	31
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	0.5
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	44
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	tr(0.2)
Akita Pref.	6	Lake Hachiro	7.0
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	3.6
Fukushima Pref.	8	Onahama Port	180
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	11
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	0.7
Chiba Pref.	11	Coast of Ichihara and Anegasaki	54
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	1.5
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	150
	14	Mouth of Riv. Sumida (Minato Ward)	550
Yokohama City	15	Yokohama Port	290
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	32
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	480
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	2.0
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	41
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	8.4
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	2,400
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	3.1
Nagano Pref.	23	Lake Suwa (center)	22
Shizuoka Pref.	24	Shimizu Port	41
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	89
Aichi Pref.	26	Kinuura Port	10
	27	Nagoya Port	53
Mie Pref.	28	Yokkaichi Port	110
	29	Toba Port	29
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	23
	31	Lake Biwa (center, offshore of Karasaki)	30
Kyoto Pref.	32	Miyazu Port	11
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	23
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	56
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	100
	36	Mouth of Riv. Yodo (Osaka City)	63
	37	Osaka Port	570
	38	Outside Osaka Port	440
Hyogo Pref.	39	Offshore of Himeji	81
Kobe City	40	Kobe Port (center)	130
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	0.4
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	660
Okayama Pref.	43	Offshore of Mizushima	32
	44	Kure Port	76
Hiroshima Pref.	45	Hiroshima Bay	45
	46	Tokuyama Bay	25
Yamaguchi Pref.	47	Offshore of Ube	33
	48	Offshore of Hagi	5.7
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	1.3
Kagawa Pref.	50	Takamatsu Port	67
Ehime Pref.	51	Niihama Port	52
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	4.5
Kitakyushu City	53	Dokai Bay	510
Fukuoka City	54	Hakata Bay	35
Saga Pref.	55	Imari Bay	34
Nagasaki Pref.	56	Omura Bay	35
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	11
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	0.4
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	0.4
	60	Riv. Gotanda (Ichikikushikino City)	tr(0.3)
Okinawa Pref.	61	Naha Port	110

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[1-2] Dichlorobiphenyls/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.0

	Aggregated value
Geometric mean	200
Median	320
Maximum	10,000
Minimum	tr(0.5)

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	58
	2	Tomakomai Port	860
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	3.7
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	310
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	3.4
Akita Pref.	6	Lake Hachiro	24
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	32
Fukushima Pref.	8	Onahama Port	2,000
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	94
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	15
Chiba Pref.	11	Coast of Ichihara and Anegasaki	610
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	19
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	1,500
	14	Mouth of Riv. Sumida (Minato Ward)	7,100
Yokohama City	15	Yokohama Port	1,500
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	650
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	2,100
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	18
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	20
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	210
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	2,600
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	28
Nagano Pref.	23	Lake Suwa (center)	78
Shizuoka Pref.	24	Shimizu Port	730
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	14
Aichi Pref.	26	Kinuura Port	84
	27	Nagoya Port	700
Mie Pref.	28	Yokkaichi Port	1,400
	29	Toba Port	220
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	110
	31	Lake Biwa (center, offshore of Karasaki)	320
Kyoto Pref.	32	Miyazu Port	90
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	410
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	3,300
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	1,600
	36	Mouth of Riv. Yodo (Osaka City)	1,100
	37	Osaka Port	10,000
	38	Outside Osaka Port	5,900
Hyogo Pref.	39	Offshore of Himeji	780
Kobe City	40	Kobe Port (center)	2,000
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	17
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	4,900
Okayama Pref.	43	Offshore of Mizushima	210
	44	Kure Port	800
Hiroshima Pref.	45	Hiroshima Bay	540
	46	Tokuyama Bay	160
Yamaguchi Pref.	47	Offshore of Ube	260
	48	Offshore of Hagi	41
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	13
Kagawa Pref.	50	Takamatsu Port	2,100
Ehime Pref.	51	Niihama Port	390
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	22
Kitakyushu City	53	Dokai Bay	4,700
Fukuoka City	54	Hakata Bay	380
Saga Pref.	55	Imari Bay	320
Nagasaki Pref.	56	Omura Bay	320
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	82
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	4.5
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	tr(0.8)
	60	Riv. Gotanda (Ichikikushikino City)	tr(0.5)
Okinawa Pref.	61	Naha Port	1,300

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[1-3] Trichlorobiphenyls/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.6

	Aggregated value
Geometric mean	600
Median	690
Maximum	86,000
Minimum	1.0

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	140
	2	Tomakomai Port	580
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	11
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	350
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	16
Akita Pref.	6	Lake Hachiro	81
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	140
Fukushima Pref.	8	Onahama Port	4,400
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	270
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	51
Chiba Pref.	11	Coast of Ichihara and Anegasaki	3,100
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	93
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	9,600
	14	Mouth of Riv. Sumida (Minato Ward)	52,000
Yokohama City	15	Yokohama Port	7,000
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	4,600
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	11,000
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	75
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	64
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	1,200
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1,800
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	42
Nagano Pref.	23	Lake Suwa (center)	330
Shizuoka Pref.	24	Shimizu Port	2,600
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	49
Aichi Pref.	26	Kinuura Port	370
	27	Nagoya Port	2,300
Mie Pref.	28	Yokkaichi Port	6,300
	29	Toba Port	610
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	440
	31	Lake Biwa (center, offshore of Karasaki)	1,100
Kyoto Pref.	32	Miyazu Port	210
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	1,300
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	2,200
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	8,200
	36	Mouth of Riv. Yodo (Osaka City)	5,000
	37	Osaka Port	86,000
	38	Outside Osaka Port	25,000
Hyogo Pref.	39	Offshore of Himeji	2,200
Kobe City	40	Kobe Port (center)	9,200
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	32
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	1,300
Okayama Pref.	43	Offshore of Mizushima	300
	44	Kure Port	3,300
Hiroshima Pref.	45	Hiroshima Bay	1,100
	46	Tokuyama Bay	340
Yamaguchi Pref.	47	Offshore of Ube	690
	48	Offshore of Hagi	85
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	46
Kagawa Pref.	50	Takamatsu Port	18,000
Ehime Pref.	51	Niihama Port	780
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	65
Kitakyushu City	53	Dokai Bay	40,000
Fukuoka City	54	Hakata Bay	1,100
Saga Pref.	55	Imari Bay	830
Nagasaki Pref.	56	Omura Bay	650
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	160
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	9.6
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	1.5
	60	Riv. Gotanda (Ichikikushikino City)	1.0
Okinawa Pref.	61	Naha Port	3,800

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

[1-4] Tetrachlorobiphenyls/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.4

	Aggregated value
Geometric mean	990
Median	1,100
Maximum	120,000
Minimum	4.6

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	190
	2	Tomakomai Port	1,100
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	38
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	560
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	22
Akita Pref.	6	Lake Hachiro	220
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	300
Fukushima Pref.	8	Onahama Port	4,800
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	470
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	63
Chiba Pref.	11	Coast of Ichihara and Anegasaki	6,200
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	160
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	14,000
	14	Mouth of Riv. Sumida (Minato Ward)	100,000
Yokohama City	15	Yokohama Port	13,000
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	11,000
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	24,000
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	130
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	77
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	1,800
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	840
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	55
Nagano Pref.	23	Lake Suwa (center)	810
Shizuoka Pref.	24	Shimizu Port	2,900
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	100
Aichi Pref.	26	Kinuura Port	690
	27	Nagoya Port	3,500
Mie Pref.	28	Yokkaichi Port	12,000
	29	Toba Port	1,100
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	1,100
	31	Lake Biwa (center, offshore of Karasaki)	1,800
Kyoto Pref.	32	Miyazu Port	250
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	1,300
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	3,700
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	12,000
	36	Mouth of Riv. Yodo (Osaka City)	7,400
	37	Osaka Port	120,000
	38	Outside Osaka Port	31,000
Hyogo Pref.	39	Offshore of Himeji	2,500
Kobe City	40	Kobe Port (center)	18,000
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	370
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	1,900
Okayama Pref.	43	Offshore of Mizushima	330
	44	Kure Port	8,300
Hiroshima Pref.	45	Hiroshima Bay	1,500
	46	Tokuyama Bay	430
Yamaguchi Pref.	47	Offshore of Ube	1,200
	48	Offshore of Hagi	120
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	75
Kagawa Pref.	50	Takamatsu Port	22,000
Ehime Pref.	51	Niihama Port	810
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	110
Kitakyushu City	53	Dokai Bay	100,000
Fukuoka City	54	Hakata Bay	1,800
Saga Pref.	55	Imari Bay	1,100
Nagasaki Pref.	56	Omura Bay	840
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	110
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	8.2
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	5.1
	60	Riv. Gotanda (Ichikikushikino City)	4.6
Okinawa Pref.	61	Naha Port	8,100

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

[1-4-1] 3,3',4,4'-Tetrachlorobiphenyl (#77) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 58/61 (Missing value : 0)

Detection Frequency (sample) : 58/61 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.4

	Aggregated value
Geometric mean	21
Median	22
Maximum	2,300
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	3.2
	2	Tomakomai Port	16
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	0.6
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	13
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	0.5
Akita Pref.	6	Lake Hachiro	8.9
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	6.4
Fukushima Pref.	8	Onahama Port	89
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	11
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	2.0
Chiba Pref.	11	Coast of Ichihara and Anegasaki	130
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	3.3
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	330
	14	Mouth of Riv. Sumida (Minato Ward)	2,300
Yokohama City	15	Yokohama Port	180
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	86
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	370
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	3.0
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	3.5
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	25
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	7.9
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	2.7
Nagano Pref.	23	Lake Suwa (center)	29
Shizuoka Pref.	24	Shimizu Port	73
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	2.2
Aichi Pref.	26	Kinuura Port	7.6
	27	Nagoya Port	48
Mie Pref.	28	Yokkaichi Port	160
	29	Toba Port	22
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	32
	31	Lake Biwa (center, offshore of Karasaki)	77
Kyoto Pref.	32	Miyazu Port	6.3
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	26
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	92
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	260
	36	Mouth of Riv. Yodo (Osaka City)	150
	37	Osaka Port	2,200
	38	Outside Osaka Port	370
Hyogo Pref.	39	Offshore of Himeji	150
Kobe City	40	Kobe Port (center)	240
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	17
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	470
Okayama Pref.	43	Offshore of Mizushima	8.1
Hiroshima Pref.	44	Kure Port	99
	45	Hiroshima Bay	23
Yamaguchi Pref.	46	Tokuyama Bay	10
	47	Offshore of Ube	19
	48	Offshore of Hagi	3.4
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	1.2
Kagawa Pref.	50	Takamatsu Port	350
Ehime Pref.	51	Niihama Port	21
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	2.6
Kitakyushu City	53	Dokai Bay	1,300
Fukuoka City	54	Hakata Bay	32
Saga Pref.	55	Imari Bay	23
Nagasaki Pref.	56	Omura Bay	21
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	1.7
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	70

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-4-2] 3,4,4',5-Tetrachlorobiphenyl (#81) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 50/61 (Missing value : 0)

Detection Frequency (sample) : 50/61 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.4

	Aggregated value
Geometric mean	1.6
Median	1.7
Maximum	130
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	0.4
	2	Tomakomai Port	1.3
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	1.0
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	0.8
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	0.7
Fukushima Pref.	8	Onahama Port	6.3
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	0.8
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	6.1
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	tr(0.2)
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	12
	14	Mouth of Riv. Sumida (Minato Ward)	58
Yokohama City	15	Yokohama Port	14
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	10
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	28
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	tr(0.3)
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	1.8
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	0.7
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	1.8
Shizuoka Pref.	24	Shimizu Port	4.0
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	0.5
	27	Nagoya Port	2.9
Mie Pref.	28	Yokkaichi Port	14
	29	Toba Port	2.0
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	2.8
	31	Lake Biwa (center, offshore of Karasaki)	6.3
Kyoto Pref.	32	Miyazu Port	0.5
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	1.7
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	6.0
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	13
	36	Mouth of Riv. Yodo (Osaka City)	11
	37	Osaka Port	130
	38	Outside Osaka Port	24
Hyogo Pref.	39	Offshore of Himeji	3.6
Kobe City	40	Kobe Port (center)	19
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	0.9
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	2.9
Okayama Pref.	43	Offshore of Mizushima	0.5
Hiroshima Pref.	44	Kure Port	7.4
	45	Hiroshima Bay	1.7
Yamaguchi Pref.	46	Tokuyama Bay	0.7
	47	Offshore of Ube	1.4
	48	Offshore of Hagi	tr(0.2)
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	21
Ehime Pref.	51	Niihama Port	1.3
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	tr(0.3)
Kitakyushu City	53	Dokai Bay	95
Fukuoka City	54	Hakata Bay	2.2
Saga Pref.	55	Imari Bay	1.8
Nagasaki Pref.	56	Omura Bay	1.2
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	13

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-5] Pentachlorobiphenyls/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.5

	Aggregated value
Geometric mean	920
Median	980
Maximum	64,000
Minimum	6.3

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	250
	2	Tomakomai Port	730
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	100
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	590
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	38
Akita Pref.	6	Lake Hachiro	580
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	590
Fukushima Pref.	8	Onahama Port	2,600
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	430
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	58
Chiba Pref.	11	Coast of Ichihara and Anegasaki	4,800
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	140
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	6,500
	14	Mouth of Riv. Sumida (Minato Ward)	54,000
Yokohama City	15	Yokohama Port	12,000
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	9,900
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	26,000
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	150
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	71
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	1,100
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	370
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	110
Nagano Pref.	23	Lake Suwa (center)	1,100
Shizuoka Pref.	24	Shimizu Port	1,300
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	100
Aichi Pref.	26	Kinuura Port	530
	27	Nagoya Port	1,600
Mie Pref.	28	Yokkaichi Port	14,000
	29	Toba Port	1,700
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	1,400
	31	Lake Biwa (center, offshore of Karasaki)	2,500
Kyoto Pref.	32	Miyazu Port	230
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	1,200
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	4,900
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	10,000
	36	Mouth of Riv. Yodo (Osaka City)	7,700
	37	Osaka Port	64,000
	38	Outside Osaka Port	19,000
Hyogo Pref.	39	Offshore of Himeji	2,000
Kobe City	40	Kobe Port (center)	20,000
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	370
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	1,400
Okayama Pref.	43	Offshore of Mizushima	230
	44	Kure Port	14,000
Hiroshima Pref.	45	Hiroshima Bay	1,600
	46	Tokuyama Bay	480
Yamaguchi Pref.	47	Offshore of Ube	820
	48	Offshore of Hagi	140
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	89
Kagawa Pref.	50	Takamatsu Port	7,700
Ehime Pref.	51	Niihama Port	470
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	170
Kitakyushu City	53	Dokai Bay	53,000
Fukuoka City	54	Hakata Bay	1,200
Saga Pref.	55	Imari Bay	980
Nagasaki Pref.	56	Omura Bay	770
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	40
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	7.4
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	7.2
	60	Riv. Gotanda (Ichikikushikino City)	6.3
Okinawa Pref.	61	Naha Port	10,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-5-1] 2,3,3',4,4'-Pentachlorobiphenyl (#105) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.5

	Aggregated value
Geometric mean	59
Median	61
Maximum	4,100
Minimum	0.6

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	19
	2	Tomakomai Port	57
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	6.6
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	38
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	2.9
Akita Pref.	6	Lake Hachiro	38
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	41
Fukushima Pref.	8	Onahama Port	210
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	40
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	5.6
Chiba Pref.	11	Coast of Ichihara and Anegasaki	290
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	10
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	310
	14	Mouth of Riv. Sumida (Minato Ward)	2,600
Yokohama City	15	Yokohama Port	810
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	480
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,700
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	9.8
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	5.5
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	71
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	23
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	8.5
Nagano Pref.	23	Lake Suwa (center)	60
Shizuoka Pref.	24	Shimizu Port	110
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	7.8
Aichi Pref.	26	Kinuura Port	23
	27	Nagoya Port	79
Mie Pref.	28	Yokkaichi Port	600
	29	Toba Port	80
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	110
	31	Lake Biwa (center, offshore of Karasaki)	210
Kyoto Pref.	32	Miyazu Port	17
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	64
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	320
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	540
	36	Mouth of Riv. Yodo (Osaka City)	500
	37	Osaka Port	4,100
	38	Outside Osaka Port	600
Hyogo Pref.	39	Offshore of Himeji	120
Kobe City	40	Kobe Port (center)	810
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	61
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	98
Okayama Pref.	43	Offshore of Mizushima	13
	44	Kure Port	380
Hiroshima Pref.	45	Hiroshima Bay	61
	46	Tokuyama Bay	15
	47	Offshore of Ube	51
	48	Offshore of Hagi	8.2
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	6.1
Kagawa Pref.	50	Takamatsu Port	640
Ehime Pref.	51	Niihama Port	29
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	12
Kitakyushu City	53	Dokai Bay	4,100
Fukuoka City	54	Hakata Bay	98
Saga Pref.	55	Imari Bay	75
Nagasaki Pref.	56	Omura Bay	48
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	2.7
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	0.6
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	0.8
	60	Riv. Gotanda (Ichikikushikino City)	0.6
Okinawa Pref.	61	Naha Port	350

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-5-2] 2,3,4,4',5-Pentachlorobiphenyl (#114) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 57/61 (Missing value : 0)

Detection Frequency (sample) : 57/61 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.5

	Aggregated value
Geometric mean	4.0
Median	3.9
Maximum	320
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	1.5
	2	Tomakomai Port	4.5
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	0.5
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	2.5
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	2.3
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	2.9
Fukushima Pref.	8	Onahama Port	15
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	2.7
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(0.3)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	12
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	0.6
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	18
	14	Mouth of Riv. Sumida (Minato Ward)	160
Yokohama City	15	Yokohama Port	48
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	35
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	110
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	0.7
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(0.4)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	5.2
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1.8
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	0.6
Nagano Pref.	23	Lake Suwa (center)	4.2
Shizuoka Pref.	24	Shimizu Port	7.2
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	0.5
Aichi Pref.	26	Kinuura Port	1.3
	27	Nagoya Port	4.3
Mie Pref.	28	Yokkaichi Port	37
	29	Toba Port	3.9
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	7.4
	31	Lake Biwa (center, offshore of Karasaki)	14
Kyoto Pref.	32	Miyazu Port	1.4
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	3.9
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	23
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	39
	36	Mouth of Riv. Yodo (Osaka City)	33
	37	Osaka Port	320
	38	Outside Osaka Port	31
Hyogo Pref.	39	Offshore of Himeji	7.5
Kobe City	40	Kobe Port (center)	27
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	3.5
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	11
Okayama Pref.	43	Offshore of Mizushima	1.2
Hiroshima Pref.	44	Kure Port	12
	45	Hiroshima Bay	2.0
	46	Tokuyama Bay	1.9
Yamaguchi Pref.	47	Offshore of Ube	4.1
	48	Offshore of Hagi	1.0
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	tr(0.4)
Kagawa Pref.	50	Takamatsu Port	48
Ehime Pref.	51	Niihama Port	2.9
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	0.9
Kitakyushu City	53	Dokai Bay	320
Fukuoka City	54	Hakata Bay	5.8
Saga Pref.	55	Imari Bay	6.1
Nagasaki Pref.	56	Omura Bay	2.3
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	tr(0.2)
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	20

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-5-3] 2,3',4,4',5-Pentachlorobiphenyl (#118) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.5

	Aggregated value
Geometric mean	150
Median	150
Maximum	10,000
Minimum	1.1

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	42
	2	Tomakomai Port	110
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	20
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	120
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	6.8
Akita Pref.	6	Lake Hachiro	100
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	100
Fukushima Pref.	8	Onahama Port	430
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	74
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	12
Chiba Pref.	11	Coast of Ichihara and Anegasaki	830
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	23
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	1,100
	14	Mouth of Riv. Sumida (Minato Ward)	8,300
Yokohama City	15	Yokohama Port	2,200
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	1,500
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	5,500
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	25
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	13
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	180
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	44
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	20
Nagano Pref.	23	Lake Suwa (center)	150
Shizuoka Pref.	24	Shimizu Port	230
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	17
Aichi Pref.	26	Kinuura Port	79
	27	Nagoya Port	250
Mie Pref.	28	Yokkaichi Port	1,700
	29	Toba Port	220
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	260
	31	Lake Biwa (center, offshore of Karasaki)	480
Kyoto Pref.	32	Miyazu Port	42
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	200
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	760
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	1,600
	36	Mouth of Riv. Yodo (Osaka City)	1,300
	37	Osaka Port	10,000
	38	Outside Osaka Port	2,700
Hyogo Pref.	39	Offshore of Himeji	370
Kobe City	40	Kobe Port (center)	2,800
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	72
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	240
Okayama Pref.	43	Offshore of Mizushima	40
	44	Kure Port	1,600
Hiroshima Pref.	45	Hiroshima Bay	230
	46	Tokuyama Bay	59
Yamaguchi Pref.	47	Offshore of Ube	130
	48	Offshore of Hagi	25
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	15
Kagawa Pref.	50	Takamatsu Port	1,300
Ehime Pref.	51	Niihama Port	84
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	29
Kitakyushu City	53	Dokai Bay	8,300
Fukuoka City	54	Hakata Bay	260
Saga Pref.	55	Imari Bay	180
Nagasaki Pref.	56	Omura Bay	150
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	6.5
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	1.6
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	1.6
	60	Riv. Gotanda (Ichikikushikino City)	1.1
Okinawa Pref.	61	Naha Port	1,200

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-5-4] 2',3,4,4',5-Pentachlorobiphenyl (#123) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 55/61 (Missing value : 0)

Detection Frequency (sample) : 55/61 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.5

	Aggregated value
Geometric mean	3.3
Median	3.3
Maximum	220
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	0.7
	2	Tomakomai Port	2.8
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(0.4)
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	2.4
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	2.0
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	2.1
Fukushima Pref.	8	Onahama Port	10
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	2.1
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(0.4)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	12
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	0.5
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	17
	14	Mouth of Riv. Sumida (Minato Ward)	140
Yokohama City	15	Yokohama Port	35
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	24
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	85
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	0.5
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	4.1
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1.4
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	tr(0.4)
Nagano Pref.	23	Lake Suwa (center)	3.3
Shizuoka Pref.	24	Shimizu Port	6.3
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	0.5
Aichi Pref.	26	Kinuura Port	1.2
	27	Nagoya Port	4.9
Mie Pref.	28	Yokkaichi Port	31
	29	Toba Port	4.2
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	5.7
	31	Lake Biwa (center, offshore of Karasaki)	11
Kyoto Pref.	32	Miyazu Port	1.1
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	3.9
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	18
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	31
	36	Mouth of Riv. Yodo (Osaka City)	30
	37	Osaka Port	210
	38	Outside Osaka Port	42
Hyogo Pref.	39	Offshore of Himeji	7.0
Kobe City	40	Kobe Port (center)	42
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	2.0
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	5.1
Okayama Pref.	43	Offshore of Mizushima	0.7
Hiroshima Pref.	44	Kure Port	25
	45	Hiroshima Bay	4.7
Yamaguchi Pref.	46	Tokuyama Bay	0.9
	47	Offshore of Ube	3.0
	48	Offshore of Hagi	0.7
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	tr(0.3)
Kagawa Pref.	50	Takamatsu Port	32
Ehime Pref.	51	Niihama Port	1.9
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	0.7
Kitakyushu City	53	Dokai Bay	220
Fukuoka City	54	Hakata Bay	5.9
Saga Pref.	55	Imari Bay	3.8
Nagasaki Pref.	56	Omura Bay	3.2
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	24

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-5-5] 3,3',4,4',5-Pentachlorobiphenyl (#126) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 53/61 (Missing value : 0)

Detection Frequency (sample) : 53/61 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.5

	Aggregated value
Geometric mean	2.2
Median	3.1
Maximum	65
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	0.5
	2	Tomakomai Port	4.3
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	1.7
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	1.6
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	1.0
Fukushima Pref.	8	Onahama Port	14
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	1.7
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	9.3
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	0.6
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	20
	14	Mouth of Riv. Sumida (Minato Ward)	45
Yokohama City	15	Yokohama Port	17
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	6.4
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	30
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	tr(0.4)
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(0.2)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	2.1
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	0.5
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	0.5
Nagano Pref.	23	Lake Suwa (center)	3.5
Shizuoka Pref.	24	Shimizu Port	3.1
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(0.4)
Aichi Pref.	26	Kinuura Port	0.5
	27	Nagoya Port	2.7
Mie Pref.	28	Yokkaichi Port	15
	29	Toba Port	3.2
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	9.4
	31	Lake Biwa (center, offshore of Karasaki)	9.1
Kyoto Pref.	32	Miyazu Port	0.7
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	0.7
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	24
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	12
	36	Mouth of Riv. Yodo (Osaka City)	26
	37	Osaka Port	65
	38	Outside Osaka Port	10
Hyogo Pref.	39	Offshore of Himeji	5.4
Kobe City	40	Kobe Port (center)	16
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	0.8
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	7.3
Okayama Pref.	43	Offshore of Mizushima	0.8
Hiroshima Pref.	44	Kure Port	10
	45	Hiroshima Bay	3.5
Yamaguchi Pref.	46	Tokuyama Bay	6.7
	47	Offshore of Ube	6.3
	48	Offshore of Hagi	0.5
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	12
Ehime Pref.	51	Niihama Port	1.6
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	tr(0.4)
Kitakyushu City	53	Dokai Bay	54
Fukuoka City	54	Hakata Bay	3.1
Saga Pref.	55	Imari Bay	3.3
Nagasaki Pref.	56	Omura Bay	2.1
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	14

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-6] Hexachlorobiphenyls/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.8

	Aggregated value
Geometric mean	830
Median	900
Maximum	42,000
Minimum	4.4

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	180
	2	Tomakomai Port	550
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	62
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	750
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	50
Akita Pref.	6	Lake Hachiro	440
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	400
Fukushima Pref.	8	Onahama Port	1,700
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	240
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	50
Chiba Pref.	11	Coast of Ichihara and Anegasaki	3,700
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	110
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	3,700
	14	Mouth of Riv. Sumida (Minato Ward)	24,000
Yokohama City	15	Yokohama Port	13,000
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	5,900
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	20,000
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	110
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	70
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	670
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	150
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	97
Nagano Pref.	23	Lake Suwa (center)	950
Shizuoka Pref.	24	Shimizu Port	1,500
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	77
Aichi Pref.	26	Kinuura Port	410
	27	Nagoya Port	900
Mie Pref.	28	Yokkaichi Port	42,000
	29	Toba Port	3,800
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	1,200
	31	Lake Biwa (center, offshore of Karasaki)	2,200
Kyoto Pref.	32	Miyazu Port	330
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	710
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	6,100
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	7,300
	36	Mouth of Riv. Yodo (Osaka City)	6,100
	37	Osaka Port	42,000
	38	Outside Osaka Port	14,000
Hyogo Pref.	39	Offshore of Himeji	1,900
Kobe City	40	Kobe Port (center)	36,000
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	170
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	1,200
Okayama Pref.	43	Offshore of Mizushima	340
	44	Kure Port	20,000
Hiroshima Pref.	45	Hiroshima Bay	2,400
	46	Tokuyama Bay	940
	47	Offshore of Ube	970
	48	Offshore of Hagi	270
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	72
Kagawa Pref.	50	Takamatsu Port	4,300
Ehime Pref.	51	Niihama Port	630
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	190
Kitakyushu City	53	Dokai Bay	23,000
Fukuoka City	54	Hakata Bay	900
Saga Pref.	55	Imari Bay	1,500
Nagasaki Pref.	56	Omura Bay	1,000
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	27
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	4.4
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	4.4
	60	Riv. Gotanda (Ichikikushikino City)	7.1
Okinawa Pref.	61	Naha Port	24,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

[1-6-1] 2,3,3',4,4',5-Hexachlorobiphenyl (#156) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 58/61 (Missing value : 0)

Detection Frequency (sample) : 58/61 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.8

	Aggregated value
Geometric mean	20
Median	19
Maximum	1,200
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	6.3
	2	Tomakomai Port	12
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	2.1
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	13
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	1.2
Akita Pref.	6	Lake Hachiro	14
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	13
Fukushima Pref.	8	Onahama Port	53
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	7.7
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	1.5
Chiba Pref.	11	Coast of Ichihara and Anegasaki	58
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	3.2
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	88
	14	Mouth of Riv. Sumida (Minato Ward)	660
Yokohama City	15	Yokohama Port	280
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	190
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	610
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	3.3
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	1.7
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	19
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	4.5
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	3.4
Nagano Pref.	23	Lake Suwa (center)	25
Shizuoka Pref.	24	Shimizu Port	36
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	2.4
Aichi Pref.	26	Kinuura Port	6.4
	27	Nagoya Port	19
Mie Pref.	28	Yokkaichi Port	550
	29	Toba Port	59
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	38
	31	Lake Biwa (center, offshore of Karasaki)	89
Kyoto Pref.	32	Miyazu Port	7.0
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	25
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	140
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	210
	36	Mouth of Riv. Yodo (Osaka City)	190
	37	Osaka Port	1,200
	38	Outside Osaka Port	310
Hyogo Pref.	39	Offshore of Himeji	48
Kobe City	40	Kobe Port (center)	560
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	8.0
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	32
Okayama Pref.	43	Offshore of Mizushima	4.3
Hiroshima Pref.	44	Kure Port	270
	45	Hiroshima Bay	29
Yamaguchi Pref.	46	Tokuyama Bay	8.9
	47	Offshore of Ube	14
	48	Offshore of Hagi	4.9
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	1.9
Kagawa Pref.	50	Takamatsu Port	140
Ehime Pref.	51	Niihama Port	9.2
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	4.5
Kitakyushu City	53	Dokai Bay	550
Fukuoka City	54	Hakata Bay	22
Saga Pref.	55	Imari Bay	31
Nagasaki Pref.	56	Omura Bay	18
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	0.8
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	340

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-6-2] 2,3,3',4,4',5'-Hexachlorobiphenyl (#157) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 57/61 (Missing value : 0)

Detection Frequency (sample) : 57/61 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.8

	Aggregated value
Geometric mean	5.4
Median	5.2
Maximum	260
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	1.4
	2	Tomakomai Port	3.3
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(0.6)
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	3.9
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	tr(0.3)
Akita Pref.	6	Lake Hachiro	3.4
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	3.5
Fukushima Pref.	8	Onahama Port	13
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	2.5
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(0.5)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	19
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	1.0
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	23
	14	Mouth of Riv. Sumida (Minato Ward)	160
Yokohama City	15	Yokohama Port	63
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	44
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	140
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	0.8
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(0.6)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	5.2
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1.2
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	0.9
Nagano Pref.	23	Lake Suwa (center)	6.9
Shizuoka Pref.	24	Shimizu Port	8.1
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(0.6)
Aichi Pref.	26	Kinuura Port	1.9
	27	Nagoya Port	5.7
Mie Pref.	28	Yokkaichi Port	77
	29	Toba Port	9.7
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	11
	31	Lake Biwa (center, offshore of Karasaki)	20
Kyoto Pref.	32	Miyazu Port	2.0
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	6.8
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	34
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	57
	36	Mouth of Riv. Yodo (Osaka City)	52
	37	Osaka Port	260
	38	Outside Osaka Port	75
Hyogo Pref.	39	Offshore of Himeji	14
Kobe City	40	Kobe Port (center)	110
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	1.9
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	8.1
Okayama Pref.	43	Offshore of Mizushima	1.2
	44	Kure Port	61
Hiroshima Pref.	45	Hiroshima Bay	8.5
	46	Tokuyama Bay	2.5
	47	Offshore of Ube	3.5
	48	Offshore of Hagi	1.2
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	tr(0.5)
Kagawa Pref.	50	Takamatsu Port	34
Ehime Pref.	51	Niihama Port	2.7
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	1.1
Kitakyushu City	53	Dokai Bay	120
Fukuoka City	54	Hakata Bay	6.0
Saga Pref.	55	Imari Bay	7.5
Nagasaki Pref.	56	Omura Bay	4.5
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	65

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-6-3] 2,3',4,4',5,5'-Hexachlorobiphenyl (#167) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 58/61 (Missing value : 0)

Detection Frequency (sample) : 58/61 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.8

	Aggregated value
Geometric mean	9.0
Median	8.9
Maximum	440
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	2.4
	2	Tomakomai Port	4.4
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	0.9
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	7.2
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	tr(0.5)
Akita Pref.	6	Lake Hachiro	6.3
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	5.4
Fukushima Pref.	8	Onahama Port	21
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	3.3
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	0.8
Chiba Pref.	11	Coast of Ichihara and Anegasaki	34
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	1.4
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	40
	14	Mouth of Riv. Sumida (Minato Ward)	270
Yokohama City	15	Yokohama Port	120
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	77
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	270
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	1.5
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	0.9
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	7.8
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	1.9
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	1.4
Nagano Pref.	23	Lake Suwa (center)	9.5
Shizuoka Pref.	24	Shimizu Port	14
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	1.0
Aichi Pref.	26	Kinuura Port	3.2
	27	Nagoya Port	9.2
Mie Pref.	28	Yokkaichi Port	200
	29	Toba Port	20
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	16
	31	Lake Biwa (center, offshore of Karasaki)	28
Kyoto Pref.	32	Miyazu Port	2.8
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	10
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	59
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	91
	36	Mouth of Riv. Yodo (Osaka City)	84
	37	Osaka Port	440
	38	Outside Osaka Port	120
Hyogo Pref.	39	Offshore of Himeji	23
Kobe City	40	Kobe Port (center)	230
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	2.6
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	15
Okayama Pref.	43	Offshore of Mizushima	2.4
Hiroshima Pref.	44	Kure Port	130
	45	Hiroshima Bay	16
Yamaguchi Pref.	46	Tokuyama Bay	4.5
	47	Offshore of Ube	7.0
	48	Offshore of Hagi	2.3
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	tr(0.7)
Kagawa Pref.	50	Takamatsu Port	57
Ehime Pref.	51	Niihama Port	4.6
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	2.0
Kitakyushu City	53	Dokai Bay	210
Fukuoka City	54	Hakata Bay	11
Saga Pref.	55	Imari Bay	14
Nagasaki Pref.	56	Omura Bay	8.9
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	tr(0.4)
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	170

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-6-4] 3,3',4,4',5,5'-Hexachlorobiphenyl (#169) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 40/61 (Missing value : 0)

Detection Frequency (sample) : 40/61 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.8

	Aggregated value
Geometric mean	0.8
Median	0.8
Maximum	43
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
	2	Tomakomai Port	tr(0.6)
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	1.0
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	tr(0.5)
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	1.5
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	1.9
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	1.8
	14	Mouth of Riv. Sumida (Minato Ward)	13
Yokohama City	15	Yokohama Port	7.8
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	0.9
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	9.1
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	tr(0.5)
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	1.7
Shizuoka Pref.	24	Shimizu Port	1.1
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	tr(0.4)
	27	Nagoya Port	tr(0.6)
Mie Pref.	28	Yokkaichi Port	43
	29	Toba Port	2.2
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	2.4
	31	Lake Biwa (center, offshore of Karasaki)	1.7
Kyoto Pref.	32	Miyazu Port	tr(0.3)
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	4.7
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	2.8
	36	Mouth of Riv. Yodo (Osaka City)	2.1
	37	Osaka Port	13
	38	Outside Osaka Port	3.4
Hyogo Pref.	39	Offshore of Himeji	1.6
Kobe City	40	Kobe Port (center)	17
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	nd
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	1.5
Okayama Pref.	43	Offshore of Mizushima	tr(0.4)
Hiroshima Pref.	44	Kure Port	17
	45	Hiroshima Bay	1.3
Yamaguchi Pref.	46	Tokuyama Bay	0.8
	47	Offshore of Ube	0.8
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	2.6
Ehime Pref.	51	Niihama Port	tr(0.7)
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	20
Fukuoka City	54	Hakata Bay	tr(0.7)
Saga Pref.	55	Imari Bay	1.2
Nagasaki Pref.	56	Omura Bay	0.8
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	22

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-7] Heptachlorobiphenyls/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.7

	Aggregated value
Geometric mean	320
Median	380
Maximum	49,000
Minimum	tr(0.5)

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	42
	2	Tomakomai Port	380
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	7.7
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	440
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	23
Akita Pref.	6	Lake Hachiro	96
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	66
Fukushima Pref.	8	Onahama Port	690
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	58
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	12
Chiba Pref.	11	Coast of Ichihara and Anegasaki	1,600
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	31
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	1,100
	14	Mouth of Riv. Sumida (Minato Ward)	6,800
Yokohama City	15	Yokohama Port	8,300
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	1,000
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	7,100
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	26
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	17
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	240
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	58
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	18
Nagano Pref.	23	Lake Suwa (center)	290
Shizuoka Pref.	24	Shimizu Port	1,200
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	28
Aichi Pref.	26	Kinuura Port	170
	27	Nagoya Port	300
Mie Pref.	28	Yokkaichi Port	49,000
	29	Toba Port	3,700
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	360
	31	Lake Biwa (center, offshore of Karasaki)	470
Kyoto Pref.	32	Miyazu Port	180
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	130
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	4,200
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	1,700
	36	Mouth of Riv. Yodo (Osaka City)	1,400
	37	Osaka Port	17,000
	38	Outside Osaka Port	6,300
Hyogo Pref.	39	Offshore of Himeji	720
Kobe City	40	Kobe Port (center)	30,000
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	84
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	460
Okayama Pref.	43	Offshore of Mizushima	200
	44	Kure Port	15,000
Hiroshima Pref.	45	Hiroshima Bay	1,300
	46	Tokuyama Bay	710
	47	Offshore of Ube	560
	48	Offshore of Hagi	220
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	21
Kagawa Pref.	50	Takamatsu Port	1,400
Ehime Pref.	51	Niihama Port	340
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	100
Kitakyushu City	53	Dokai Bay	17,000
Fukuoka City	54	Hakata Bay	380
Saga Pref.	55	Imari Bay	1,000
Nagasaki Pref.	56	Omura Bay	560
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	8.9
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	tr(0.5)
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	0.8
	60	Riv. Gotanda (Ichikikushikino City)	2.9
Okinawa Pref.	61	Naha Port	21,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[1-7-1] 2,2',3,3',4,4',5-Heptachlorobiphenyl (#170) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 59/61 (Missing value : 0)

Detection Frequency (sample) : 59/61 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.7

	Aggregated value
Geometric mean	39
Median	40
Maximum	4,900
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	5.9
	2	Tomakomai Port	37
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	1.4
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	41
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	2.5
Akita Pref.	6	Lake Hachiro	15
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	9.9
Fukushima Pref.	8	Onahama Port	85
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	8.1
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	1.8
Chiba Pref.	11	Coast of Ichihara and Anegasaki	170
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	4.4
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	150
	14	Mouth of Riv. Sumida (Minato Ward)	860
Yokohama City	15	Yokohama Port	930
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	160
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	910
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	3.3
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	2.9
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	27
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	7.8
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	3.0
Nagano Pref.	23	Lake Suwa (center)	37
Shizuoka Pref.	24	Shimizu Port	130
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	3.6
Aichi Pref.	26	Kinuura Port	16
	27	Nagoya Port	36
Mie Pref.	28	Yokkaichi Port	4,900
	29	Toba Port	350
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	48
	31	Lake Biwa (center, offshore of Karasaki)	76
Kyoto Pref.	32	Miyazu Port	18
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	22
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	440
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	250
	36	Mouth of Riv. Yodo (Osaka City)	210
	37	Osaka Port	2,100
	38	Outside Osaka Port	670
Hyogo Pref.	39	Offshore of Himeji	82
Kobe City	40	Kobe Port (center)	2,900
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	14
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	56
Okayama Pref.	43	Offshore of Mizushima	17
Hiroshima Pref.	44	Kure Port	1,500
	45	Hiroshima Bay	110
Yamaguchi Pref.	46	Tokuyama Bay	60
	47	Offshore of Ube	57
	48	Offshore of Hagi	22
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	2.3
Kagawa Pref.	50	Takamatsu Port	190
Ehime Pref.	51	Niihama Port	24
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	11
Kitakyushu City	53	Dokai Bay	1,800
Fukuoka City	54	Hakata Bay	40
Saga Pref.	55	Imari Bay	100
Nagasaki Pref.	56	Omura Bay	56
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	1.1
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	tr(0.5)
Okinawa Pref.	61	Naha Port	2,300

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-7-2] 2,2',3,4,4',5,5'-Heptachlorobiphenyl (#180) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.7

	Aggregated value
Geometric mean	90
Median	97
Maximum	14,000
Minimum	tr(0.5)

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	12
	2	Tomakomai Port	110
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	2.4
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	120
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	6.5
Akita Pref.	6	Lake Hachiro	26
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	17
Fukushima Pref.	8	Onahama Port	200
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	15
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	3.6
Chiba Pref.	11	Coast of Ichihara and Anegasaki	400
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	8.9
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	260
	14	Mouth of Riv. Sumida (Minato Ward)	1,900
Yokohama City	15	Yokohama Port	2,500
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	260
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	2,200
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	7.0
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	5.1
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	59
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	18
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	5.0
Nagano Pref.	23	Lake Suwa (center)	79
Shizuoka Pref.	24	Shimizu Port	360
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	8.3
Aichi Pref.	26	Kinuura Port	41
	27	Nagoya Port	72
Mie Pref.	28	Yokkaichi Port	14,000
	29	Toba Port	1,100
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	90
	31	Lake Biwa (center, offshore of Karasaki)	110
Kyoto Pref.	32	Miyazu Port	37
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	36
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	1,100
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	470
	36	Mouth of Riv. Yodo (Osaka City)	370
	37	Osaka Port	5,000
	38	Outside Osaka Port	1,800
Hyogo Pref.	39	Offshore of Himeji	170
Kobe City	40	Kobe Port (center)	8,600
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	29
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	130
Okayama Pref.	43	Offshore of Mizushima	44
Hiroshima Pref.	44	Kure Port	4,400
	45	Hiroshima Bay	290
Yamaguchi Pref.	46	Tokuyama Bay	170
	47	Offshore of Ube	140
	48	Offshore of Hagi	58
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	5.4
Kagawa Pref.	50	Takamatsu Port	400
Ehime Pref.	51	Niihama Port	68
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	30
Kitakyushu City	53	Dokai Bay	5,000
Fukuoka City	54	Hakata Bay	97
Saga Pref.	55	Imari Bay	280
Nagasaki Pref.	56	Omura Bay	140
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	2.7
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	tr(0.5)
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	tr(0.5)
	60	Riv. Gotanda (Ichikikushikino City)	1.0
Okinawa Pref.	61	Naha Port	6,500

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[1-7-3] 2,3,3',4,4',5,5'-Heptachlorobiphenyl (#189) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 50/61 (Missing value : 0)

Detection Frequency (sample) : 50/61 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.7

	Aggregated value
Geometric mean	2.5
Median	2.4
Maximum	160
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(0.3)
	2	Tomakomai Port	1.4
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	2.4
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	1.2
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	0.8
Fukushima Pref.	8	Onahama Port	4.7
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	0.7
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	6.8
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	tr(0.3)
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	9.3
	14	Mouth of Riv. Sumida (Minato Ward)	41
Yokohama City	15	Yokohama Port	41
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	11
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	45
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	tr(0.3)
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	1.6
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(0.6)
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	2.5
Shizuoka Pref.	24	Shimizu Port	5.4
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	0.7
	27	Nagoya Port	2.2
Mie Pref.	28	Yokkaichi Port	160
	29	Toba Port	12
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	4.8
	31	Lake Biwa (center, offshore of Karasaki)	6.4
Kyoto Pref.	32	Miyazu Port	1.2
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	1.2
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	17
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	15
	36	Mouth of Riv. Yodo (Osaka City)	12
	37	Osaka Port	93
	38	Outside Osaka Port	32
Hyogo Pref.	39	Offshore of Himeji	6.2
Kobe City	40	Kobe Port (center)	110
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	tr(0.6)
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	3.1
Okayama Pref.	43	Offshore of Mizushima	1.0
Hiroshima Pref.	44	Kure Port	62
	45	Hiroshima Bay	5.6
Yamaguchi Pref.	46	Tokuyama Bay	2.9
	47	Offshore of Ube	2.4
	48	Offshore of Hagi	1.0
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	10
Ehime Pref.	51	Niihama Port	1.8
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	tr(0.4)
Kitakyushu City	53	Dokai Bay	65
Fukuoka City	54	Hakata Bay	2.2
Saga Pref.	55	Imari Bay	4.7
Nagasaki Pref.	56	Omura Bay	3.0
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	79

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-8] Octachlorobiphenyls/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 59/61 (Missing value : 0)

Detection Frequency (sample) : 59/61 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.6

	Aggregated value
Geometric mean	57
Median	80
Maximum	13,000
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	6.2
	2	Tomakomai Port	80
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(0.5)
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	99
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	3.0
Akita Pref.	6	Lake Hachiro	16
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	7.5
Fukushima Pref.	8	Onahama Port	140
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	11
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	1.8
Chiba Pref.	11	Coast of Ichihara and Anegasaki	280
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	4.1
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	190
	14	Mouth of Riv. Sumida (Minato Ward)	1,100
Yokohama City	15	Yokohama Port	1,600
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	100
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,400
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	3.6
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintu (Toyama City)	1.9
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	40
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	18
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	1.8
Nagano Pref.	23	Lake Suwa (center)	50
Shizuoka Pref.	24	Shimizu Port	280
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	5.5
Aichi Pref.	26	Kinuura Port	32
	27	Nagoya Port	60
Mie Pref.	28	Yokkaichi Port	13,000
	29	Toba Port	870
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	89
	31	Lake Biwa (center, offshore of Karasaki)	75
Kyoto Pref.	32	Miyazu Port	43
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	11
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	960
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	260
	36	Mouth of Riv. Yodo (Osaka City)	200
	37	Osaka Port	3,200
	38	Outside Osaka Port	1,200
Hyogo Pref.	39	Offshore of Himeji	130
Kobe City	40	Kobe Port (center)	7,800
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	14
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	81
Okayama Pref.	43	Offshore of Mizushima	44
Hiroshima Pref.	44	Kure Port	3,400
	45	Hiroshima Bay	280
Yamaguchi Pref.	46	Tokuyama Bay	170
	47	Offshore of Ube	110
	48	Offshore of Hagi	59
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	2.5
Kagawa Pref.	50	Takamatsu Port	260
Ehime Pref.	51	Niihama Port	89
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	21
Kitakyushu City	53	Dokai Bay	4,400
Fukuoka City	54	Hakata Bay	80
Saga Pref.	55	Imari Bay	210
Nagasaki Pref.	56	Omura Bay	140
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	1.4
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	tr(0.2)
Okinawa Pref.	61	Naha Port	4,300

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-9] Nonachlorobiphenyls/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 51/61 (Missing value : 0)

Detection Frequency (sample) : 51/61 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.1

	Aggregated value
Geometric mean	8.3
Median	14
Maximum	900
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(0.8)
	2	Tomakomai Port	5.6
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	15
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	5.0
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	2.7
Fukushima Pref.	8	Onahama Port	27
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	4.8
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	28
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	tr(0.4)
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	30
	14	Mouth of Riv. Sumida (Minato Ward)	170
Yokohama City	15	Yokohama Port	180
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	15
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	200
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	tr(0.7)
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	7.2
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	2.3
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	14
Shizuoka Pref.	24	Shimizu Port	23
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(0.5)
Aichi Pref.	26	Kinuura Port	3.1
	27	Nagoya Port	8.0
Mie Pref.	28	Yokkaichi Port	900
	29	Toba Port	58
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	24
	31	Lake Biwa (center, offshore of Karasaki)	17
Kyoto Pref.	32	Miyazu Port	5.8
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(0.9)
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	79
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	33
	36	Mouth of Riv. Yodo (Osaka City)	33
	37	Osaka Port	390
	38	Outside Osaka Port	120
Hyogo Pref.	39	Offshore of Himeji	23
Kobe City	40	Kobe Port (center)	490
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	tr(0.7)
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	17
Okayama Pref.	43	Offshore of Mizushima	5.4
	44	Kure Port	380
Hiroshima Pref.	45	Hiroshima Bay	28
	46	Tokuyama Bay	15
Yamaguchi Pref.	47	Offshore of Ube	10
	48	Offshore of Hagi	5.6
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	33
Ehime Pref.	51	Niihama Port	42
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	2.0
Kitakyushu City	53	Dokai Bay	380
Fukuoka City	54	Hakata Bay	11
Saga Pref.	55	Imari Bay	18
Nagasaki Pref.	56	Omura Bay	35
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	400

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-10] Decachlorobiphenyl/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 53/61 (Missing value : 0)

Detection Frequency (sample) : 53/61 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.1

	Aggregated value
Geometric mean	7.9
Median	8.1
Maximum	1,600
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	1.8
	2	Tomakomai Port	2.6
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	31
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	8.0
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	4.1
Fukushima Pref.	8	Onahama Port	530
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	6.8
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	26
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	tr(0.6)
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	53
	14	Mouth of Riv. Sumida (Minato Ward)	260
Yokohama City	15	Yokohama Port	500
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	12
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	470
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	1.2
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	6.7
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(0.5)
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	tr(0.6)
Nagano Pref.	23	Lake Suwa (center)	10
Shizuoka Pref.	24	Shimizu Port	20
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	1.3
Aichi Pref.	26	Kinuura Port	tr(1.0)
	27	Nagoya Port	4.6
Mie Pref.	28	Yokkaichi Port	350
	29	Toba Port	5.5
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	21
	31	Lake Biwa (center, offshore of Karasaki)	12
Kyoto Pref.	32	Miyazu Port	5.1
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(0.6)
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	45
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	20
	36	Mouth of Riv. Yodo (Osaka City)	22
	37	Osaka Port	190
	38	Outside Osaka Port	49
Hyogo Pref.	39	Offshore of Himeji	33
Kobe City	40	Kobe Port (center)	51
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	tr(0.5)
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	20
Okayama Pref.	43	Offshore of Mizushima	3.8
	44	Kure Port	570
Hiroshima Pref.	45	Hiroshima Bay	16
	46	Tokuyama Bay	9.1
	47	Offshore of Ube	10
	48	Offshore of Hagi	2.1
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	tr(0.5)
Kagawa Pref.	50	Takamatsu Port	24
Ehime Pref.	51	Niihama Port	340
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	1.2
Kitakyushu City	53	Dokai Bay	1,600
Fukuoka City	54	Hakata Bay	7.2
Saga Pref.	55	Imari Bay	8.1
Nagasaki Pref.	56	Omura Bay	49
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	130

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[2] HCB (Hexachlorobenzene) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.8

	Aggregated value
Geometric mean	42
Median	36
Maximum	4,800
Minimum	1.6

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	86
	2	Tomakomai Port	43
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	16
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	360
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	11
Akita Pref.	6	Lake Hachiro	32
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	41
Fukushima Pref.	8	Onahama Port	3,800
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	120
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	7.3
Chiba Pref.	11	Coast of Ichihara and Anegasaki	100
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	5.8
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	470
	14	Mouth of Riv. Sumida (Minato Ward)	340
Yokohama City	15	Yokohama Port	190
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	83
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	480
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	50
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	19
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	880
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	20
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	18
Nagano Pref.	23	Lake Suwa (center)	170
Shizuoka Pref.	24	Shimizu Port	42
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	19
Aichi Pref.	26	Kinuura Port	3.1
	27	Nagoya Port	12
Mie Pref.	28	Yokkaichi Port	96
	29	Toba Port	45
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	81
	31	Lake Biwa (center, offshore of Karasaki)	27
Kyoto Pref.	32	Miyazu Port	7.5
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	16
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	120
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	78
	36	Mouth of Riv. Yodo (Osaka City)	88
	37	Osaka Port	540
	38	Outside Osaka Port	63
Hyogo Pref.	39	Offshore of Himeji	36
Kobe City	40	Kobe Port (center)	36
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	3.3
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	110
Okayama Pref.	43	Offshore of Mizushima	16
	44	Kure Port	32
Hiroshima Pref.	45	Hiroshima Bay	11
	46	Tokuyama Bay	68
	47	Offshore of Ube	29
	48	Offshore of Hagi	6.7
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	14
Kagawa Pref.	50	Takamatsu Port	56
Ehime Pref.	51	Niihama Port	560
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	27
Kitakyushu City	53	Dokai Bay	4,800
Fukuoka City	54	Hakata Bay	17
Saga Pref.	55	Imari Bay	42
Nagasaki Pref.	56	Omura Bay	19
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	4.3
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	4.5
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	2.8
	60	Riv. Gotanda (Ichikikushikino City)	1.6
Okinawa Pref.	61	Naha Port	22

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

[11-1] α -HCH /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.9

	Aggregated value
Geometric mean	67
Median	80
Maximum	2,800
Minimum	1.2

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	930
	2	Tomakomai Port	33
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	39
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	54
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	1.2
Akita Pref.	6	Lake Hachiro	110
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	30
Fukushima Pref.	8	Onahama Port	460
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	21
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	1.8
Chiba Pref.	11	Coast of Ichihara and Anegasaki	70
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	3.5
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	180
	14	Mouth of Riv. Sumida (Minato Ward)	560
Yokohama City	15	Yokohama Port	170
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	89
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	190
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	23
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	23
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	70
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	33
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	3.3
Nagano Pref.	23	Lake Suwa (center)	140
Shizuoka Pref.	24	Shimizu Port	64
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	12
Aichi Pref.	26	Kinuura Port	39
	27	Nagoya Port	78
Mie Pref.	28	Yokkaichi Port	160
	29	Toba Port	41
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	230
	31	Lake Biwa (center, offshore of Karasaki)	100
Kyoto Pref.	32	Miyazu Port	67
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	32
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	150
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	200
	36	Mouth of Riv. Yodo (Osaka City)	270
	37	Osaka Port	1,400
	38	Outside Osaka Port	1,200
Hyogo Pref.	39	Offshore of Himeji	130
Kobe City	40	Kobe Port (center)	480
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	1.9
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	90
Okayama Pref.	43	Offshore of Mizushima	22
Hiroshima Pref.	44	Kure Port	530
	45	Hiroshima Bay	190
Yamaguchi Pref.	46	Tokuyama Bay	80
	47	Offshore of Ube	190
	48	Offshore of Hagi	25
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	18
Kagawa Pref.	50	Takamatsu Port	250
Ehime Pref.	51	Niihama Port	56
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	63
Kitakyushu City	53	Dokai Bay	2,800
Fukuoka City	54	Hakata Bay	200
Saga Pref.	55	Imari Bay	320
Nagasaki Pref.	56	Omura Bay	220
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	1.9
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	86
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	2.7
	60	Riv. Gotanda (Ichikikushikino City)	6.2
Okinawa Pref.	61	Naha Port	110

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[11-2] β -HCH /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.6

Quantification limit : 1.6

	Aggregated value
Geometric mean	120
Median	100
Maximum	2,900
Minimum	2.2

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	970
	2	Tomakomai Port	44
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	19
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	92
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	2.2
Akita Pref.	6	Lake Hachiro	520
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	77
Fukushima Pref.	8	Onahama Port	380
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	39
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	5.5
Chiba Pref.	11	Coast of Ichihara and Anegasaki	68
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	11
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	260
	14	Mouth of Riv. Sumida (Minato Ward)	550
Yokohama City	15	Yokohama Port	160
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	75
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	180
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	53
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	55
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	120
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	100
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	9.8
Nagano Pref.	23	Lake Suwa (center)	280
Shizuoka Pref.	24	Shimizu Port	94
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	15
Aichi Pref.	26	Kinuura Port	34
	27	Nagoya Port	70
Mie Pref.	28	Yokkaichi Port	160
	29	Toba Port	81
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	2,100
	31	Lake Biwa (center, offshore of Karasaki)	410
Kyoto Pref.	32	Miyazu Port	97
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	85
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	610
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	1,600
	36	Mouth of Riv. Yodo (Osaka City)	1,500
	37	Osaka Port	2,000
	38	Outside Osaka Port	810
Hyogo Pref.	39	Offshore of Himeji	270
Kobe City	40	Kobe Port (center)	560
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	8.2
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	140
Okayama Pref.	43	Offshore of Mizushima	38
Hiroshima Pref.	44	Kure Port	540
	45	Hiroshima Bay	180
Yamaguchi Pref.	46	Tokuyama Bay	77
	47	Offshore of Ube	270
	48	Offshore of Hagi	31
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	33
Kagawa Pref.	50	Takamatsu Port	430
Ehime Pref.	51	Niihama Port	73
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	100
Kitakyushu City	53	Dokai Bay	2,900
Fukuoka City	54	Hakata Bay	200
Saga Pref.	55	Imari Bay	510
Nagasaki Pref.	56	Omura Bay	320
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	4.0
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	200
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	9.1
	60	Riv. Gotanda (Ichikikushikino City)	31
Okinawa Pref.	61	Naha Port	91

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[11-3] γ -HCH (synonym: Lindane) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.5

Quantification limit : 1.3

	Aggregated value
Geometric mean	23
Median	29
Maximum	2,100
Minimum	tr(0.7)

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	220
	2	Tomakomai Port	9.5
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	11
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	15
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	tr(0.7)
Akita Pref.	6	Lake Hachiro	35
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	9.5
Fukushima Pref.	8	Onahama Port	140
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	5.5
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(0.9)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	32
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	1.3
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	69
	14	Mouth of Riv. Sumida (Minato Ward)	420
Yokohama City	15	Yokohama Port	82
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	32
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	79
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	6.7
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	4.9
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	17
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	11
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	1.4
Nagano Pref.	23	Lake Suwa (center)	48
Shizuoka Pref.	24	Shimizu Port	18
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	4.1
Aichi Pref.	26	Kinuura Port	10
	27	Nagoya Port	22
Mie Pref.	28	Yokkaichi Port	50
	29	Toba Port	120
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	68
	31	Lake Biwa (center, offshore of Karasaki)	26
Kyoto Pref.	32	Miyazu Port	18
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	13
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	83
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	58
	36	Mouth of Riv. Yodo (Osaka City)	72
	37	Osaka Port	470
	38	Outside Osaka Port	260
Hyogo Pref.	39	Offshore of Himeji	56
Kobe City	40	Kobe Port (center)	120
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	tr(0.8)
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	29
Okayama Pref.	43	Offshore of Mizushima	4.8
Hiroshima Pref.	44	Kure Port	200
	45	Hiroshima Bay	43
Yamaguchi Pref.	46	Tokuyama Bay	19
	47	Offshore of Ube	31
	48	Offshore of Hagi	6.2
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	5.0
Kagawa Pref.	50	Takamatsu Port	53
Ehime Pref.	51	Niihama Port	14
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	15
Kitakyushu City	53	Dokai Bay	2,100
Fukuoka City	54	Hakata Bay	37
Saga Pref.	55	Imari Bay	69
Nagasaki Pref.	56	Omura Bay	47
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	tr(0.8)
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	34
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	1.3
	60	Riv. Gotanda (Ichikikushikino City)	5.4
Okinawa Pref.	61	Naha Port	61

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

(Note 2) Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 3) Data treated as detected means detection limit value and more.

(Note 4) tr : Detection limit value and more, less than Quantification limit value.

[11-4] δ -HCH /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.7

	Aggregated value
Geometric mean	21
Median	24
Maximum	2,300
Minimum	tr(0.6)

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	230
	2	Tomakomai Port	7.5
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	9.9
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	15
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	tr(0.6)
Akita Pref.	6	Lake Hachiro	85
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	17
Fukushima Pref.	8	Onahama Port	170
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	10
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(0.6)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	18
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	1.4
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	86
	14	Mouth of Riv. Sumida (Minato Ward)	170
Yokohama City	15	Yokohama Port	40
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	28
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	40
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	11
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	6.2
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	23
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	8.1
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	1.4
Nagano Pref.	23	Lake Suwa (center)	48
Shizuoka Pref.	24	Shimizu Port	12
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	2.7
Aichi Pref.	26	Kinuura Port	16
	27	Nagoya Port	24
Mie Pref.	28	Yokkaichi Port	54
	29	Toba Port	8.0
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	92
	31	Lake Biwa (center, offshore of Karasaki)	29
Kyoto Pref.	32	Miyazu Port	11
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	14
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	91
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	68
	36	Mouth of Riv. Yodo (Osaka City)	97
	37	Osaka Port	350
	38	Outside Osaka Port	270
Hyogo Pref.	39	Offshore of Himeji	69
Kobe City	40	Kobe Port (center)	110
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	0.9
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	40
Okayama Pref.	43	Offshore of Mizushima	5.5
Hiroshima Pref.	44	Kure Port	110
	45	Hiroshima Bay	32
Yamaguchi Pref.	46	Tokuyama Bay	16
	47	Offshore of Ube	53
	48	Offshore of Hagi	4.1
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	5.1
Kagawa Pref.	50	Takamatsu Port	100
Ehime Pref.	51	Niihama Port	8.1
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	25
Kitakyushu City	53	Dokai Bay	2,300
Fukuoka City	54	Hakata Bay	53
Saga Pref.	55	Imari Bay	110
Nagasaki Pref.	56	Omura Bay	46
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	0.7
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	24
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	2.5
	60	Riv. Gotanda (Ichikikushikino City)	4.1
Okinawa Pref.	61	Naha Port	21

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

(Note 2) Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 3) Data treated as detected means detection limit value and more.

(Note 4) tr : Detection limit value and more, less than Quantification limit value.

[14] Polybromodiphenyl ethers(Br₄~Br₁₀) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 59/61 (Missing value : 0)

Detection Frequency (sample) : 59/61 (Missing value : 0)

Detection limit : *22

Quantification limit : *59

	Aggregated value
Geometric mean	3,700
Median	4,700
Maximum	460,000
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	1,200
	2	Tomakomai Port	3,200
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(40)
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	5,600
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	110
Akita Pref.	6	Lake Hachiro	910
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	3,600
Fukushima Pref.	8	Onahama Port	17,000
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	22,000
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	520
Chiba Pref.	11	Coast of Ichihara and Anegasaki	18,000
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	1,400
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	68,000
	14	Mouth of Riv. Sumida (Minato Ward)	81,000
Yokohama City	15	Yokohama Port	17,000
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	9,800
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	25,000
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	1,800
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	200
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	89,000
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	230
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	6,800
Nagano Pref.	23	Lake Suwa (center)	7,400
Shizuoka Pref.	24	Shimizu Port	2,200
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	840
Aichi Pref.	26	Kinuura Port	1,000
	27	Nagoya Port	77,000
Mie Pref.	28	Yokkaichi Port	46,000
	29	Toba Port	2,200
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	4,500
	31	Lake Biwa (center, offshore of Karasaki)	5,000
Kyoto Pref.	32	Miyazu Port	1,100
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	520
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	45,000
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	50,000
	36	Mouth of Riv. Yodo (Osaka City)	55,000
	37	Osaka Port	200,000
	38	Outside Osaka Port	19,000
Hyogo Pref.	39	Offshore of Himeji	6,000
Kobe City	40	Kobe Port (center)	15,000
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	230
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	31,000
Okayama Pref.	43	Offshore of Mizushima	1,400
Hiroshima Pref.	44	Kure Port	7,900
	45	Hiroshima Bay	15,000
Yamaguchi Pref.	46	Tokuyama Bay	460,000
	47	Offshore of Ube	9,000
	48	Offshore of Hagi	290
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	71
Kagawa Pref.	50	Takamatsu Port	46,000
Ehime Pref.	51	Niihama Port	1,600
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	1,100
Kitakyushu City	53	Dokai Bay	70,000
Fukuoka City	54	Hakata Bay	4,700
Saga Pref.	55	Imari Bay	3,800
Nagasaki Pref.	56	Omura Bay	860
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	140
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	62
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	51,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) * : Indicates the sum value of the Quantification [Detection] limits of each congeners.

[14-1] Tetrabromodiphenyl ethers /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 52/61 (Missing value : 0)

Detection Frequency (sample) : 52/61 (Missing value : 0)

Detection limit : 0.9

Quantification limit : 2.4

	Aggregated value
Geometric mean	6.9
Median	6.4
Maximum	1,800
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	10
	2	Tomakomai Port	600
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	3.4
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	2.7
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	3.9
Fukushima Pref.	8	Onahama Port	150
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	13
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	11
Chiba Pref.	11	Coast of Ichihara and Anegasaki	19
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	4.4
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	68
	14	Mouth of Riv. Sumida (Minato Ward)	83
Yokohama City	15	Yokohama Port	28
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	37
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	230
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	4.0
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(1.5)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	6.4
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	2.5
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	6.6
Nagano Pref.	23	Lake Suwa (center)	13
Shizuoka Pref.	24	Shimizu Port	3.9
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	4.8
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	3.4
Mie Pref.	28	Yokkaichi Port	10
	29	Toba Port	3.5
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	50
	31	Lake Biwa (center, offshore of Karasaki)	24
Kyoto Pref.	32	Miyazu Port	tr(1.1)
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(1.8)
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	120
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	48
	36	Mouth of Riv. Yodo (Osaka City)	1,800
	37	Osaka Port	49
	38	Outside Osaka Port	9.9
Hyogo Pref.	39	Offshore of Himeji	5.7
Kobe City	40	Kobe Port (center)	10
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	2.9
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	9.5
Okayama Pref.	43	Offshore of Mizushima	tr(1.3)
	44	Kure Port	6.6
Hiroshima Pref.	45	Hiroshima Bay	tr(1.6)
	46	Tokuyama Bay	15
Yamaguchi Pref.	47	Offshore of Ube	5.6
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	19
Ehime Pref.	51	Niihama Port	2.5
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	97
Fukuoka City	54	Hakata Bay	6.9
Saga Pref.	55	Imari Bay	8.2
Nagasaki Pref.	56	Omura Bay	tr(1.4)
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	tr(1.0)
Okinawa Pref.	61	Naha Port	17

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-1-1] 2,2',4,4'-Tetrabromodiphenyl ether (#47) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 52/61 (Missing value : 0)

Detection Frequency (sample) : 52/61 (Missing value : 0)

Detection limit : 0.9

Quantification limit : 2.4

	Aggregated value
Geometric mean	5.3
Median	4.5
Maximum	1,400
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	8.0
	2	Tomakomai Port	350
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	3.4
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	2.7
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	3.9
Fukushima Pref.	8	Onahama Port	92
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	9.9
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	11
Chiba Pref.	11	Coast of Ichihara and Anegasaki	12
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	4.4
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	36
	14	Mouth of Riv. Sumida (Minato Ward)	45
Yokohama City	15	Yokohama Port	17
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	24
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	130
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	3.0
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(1.5)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	4.5
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	2.5
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	5.6
Nagano Pref.	23	Lake Suwa (center)	7.0
Shizuoka Pref.	24	Shimizu Port	3.9
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	3.8
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	3.4
Mie Pref.	28	Yokkaichi Port	7.9
	29	Toba Port	2.5
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	21
	31	Lake Biwa (center, offshore of Karasaki)	14
Kyoto Pref.	32	Miyazu Port	tr(1.1)
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(1.8)
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	67
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	27
	36	Mouth of Riv. Yodo (Osaka City)	1,400
	37	Osaka Port	29
	38	Outside Osaka Port	6.2
Hyogo Pref.	39	Offshore of Himeji	4.1
Kobe City	40	Kobe Port (center)	6.1
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	2.9
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	6.9
Okayama Pref.	43	Offshore of Mizushima	tr(1.3)
Hiroshima Pref.	44	Kure Port	5.2
	45	Hiroshima Bay	tr(1.6)
Yamaguchi Pref.	46	Tokuyama Bay	9.3
	47	Offshore of Ube	tr(2.1)
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	11
Ehime Pref.	51	Niihama Port	2.5
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	50
Fukuoka City	54	Hakata Bay	5.2
Saga Pref.	55	Imari Bay	5.5
Nagasaki Pref.	56	Omura Bay	tr(1.4)
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	tr(1.0)
Okinawa Pref.	61	Naha Port	11

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-2] Pentabromodiphenyl ethers /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 45/61 (Missing value : 0)

Detection Frequency (sample) : 45/61 (Missing value : 0)

Detection limit : 1

Quantification limit : 4

	Aggregated value
Geometric mean	5
Median	5
Maximum	850
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	5
	2	Tomakomai Port	850
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	5
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	tr(1)
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	5
Fukushima Pref.	8	Onahama Port	160
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	13
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	18
Chiba Pref.	11	Coast of Ichihara and Anegasaki	19
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	9
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	68
	14	Mouth of Riv. Sumida (Minato Ward)	88
Yokohama City	15	Yokohama Port	30
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	43
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	310
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	tr(2)
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	8
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(2)
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	4
Nagano Pref.	23	Lake Suwa (center)	6
Shizuoka Pref.	24	Shimizu Port	4
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(3)
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	5
Mie Pref.	28	Yokkaichi Port	15
	29	Toba Port	tr(2)
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	42
	31	Lake Biwa (center, offshore of Karasaki)	13
Kyoto Pref.	32	Miyazu Port	nd
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(1)
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	130
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	54
	36	Mouth of Riv. Yodo (Osaka City)	420
	37	Osaka Port	40
	38	Outside Osaka Port	7
Hyogo Pref.	39	Offshore of Himeji	8
Kobe City	40	Kobe Port (center)	5
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	tr(2)
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	8
Okayama Pref.	43	Offshore of Mizushima	nd
	44	Kure Port	5
Hiroshima Pref.	45	Hiroshima Bay	nd
	46	Tokuyama Bay	11
Yamaguchi Pref.	47	Offshore of Ube	7
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	25
Ehime Pref.	51	Niihama Port	tr(2)
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	67
Fukuoka City	54	Hakata Bay	tr(2)
Saga Pref.	55	Imari Bay	nd
Nagasaki Pref.	56	Omura Bay	nd
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	22

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-2-1] 2,2',4,4',5-Pentabromodiphenyl ether (#99) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 44/61 (Missing value : 0)

Detection Frequency (sample) : 44/61 (Missing value : 0)

Detection limit : 1

Quantification limit : 4

	Aggregated value
Geometric mean	4
Median	4
Maximum	490
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	4
	2	Tomakomai Port	490
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	tr(3)
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	tr(3)
Fukushima Pref.	8	Onahama Port	100
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	7
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	14
Chiba Pref.	11	Coast of Ichihara and Anegasaki	12
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	6
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	31
	14	Mouth of Riv. Sumida (Minato Ward)	45
Yokohama City	15	Yokohama Port	18
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	25
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	180
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	tr(2)
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	tr(3)
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(2)
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	4
Nagano Pref.	23	Lake Suwa (center)	4
Shizuoka Pref.	24	Shimizu Port	tr(2)
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(3)
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	4
Mie Pref.	28	Yokkaichi Port	9
	29	Toba Port	tr(2)
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	20
	31	Lake Biwa (center, offshore of Karasaki)	9
Kyoto Pref.	32	Miyazu Port	nd
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(1)
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	59
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	30
	36	Mouth of Riv. Yodo (Osaka City)	280
	37	Osaka Port	23
	38	Outside Osaka Port	5
Hyogo Pref.	39	Offshore of Himeji	5
Kobe City	40	Kobe Port (center)	4
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	tr(2)
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	6
Okayama Pref.	43	Offshore of Mizushima	nd
Hiroshima Pref.	44	Kure Port	5
	45	Hiroshima Bay	nd
Yamaguchi Pref.	46	Tokuyama Bay	5
	47	Offshore of Ube	tr(2)
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	17
Ehime Pref.	51	Niihama Port	tr(2)
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	34
Fukuoka City	54	Hakata Bay	tr(2)
Saga Pref.	55	Imari Bay	nd
Nagasaki Pref.	56	Omura Bay	nd
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	14

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-3] Hexabromodiphenyl ethers /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 46/61 (Missing value : 0)

Detection Frequency (sample) : 46/61 (Missing value : 0)

Detection limit : 1

Quantification limit : 3

	Aggregated value
Geometric mean	10
Median	14
Maximum	420
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	4
	2	Tomakomai Port	240
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	23
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	6
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	5
Fukushima Pref.	8	Onahama Port	140
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	18
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	4
Chiba Pref.	11	Coast of Ichihara and Anegasaki	44
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	5
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	140
	14	Mouth of Riv. Sumida (Minato Ward)	230
Yokohama City	15	Yokohama Port	55
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	25
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	160
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	26
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	3
Nagano Pref.	23	Lake Suwa (center)	26
Shizuoka Pref.	24	Shimizu Port	28
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	40
Mie Pref.	28	Yokkaichi Port	95
	29	Toba Port	nd
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	37
	31	Lake Biwa (center, offshore of Karasaki)	14
Kyoto Pref.	32	Miyazu Port	3
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	240
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	69
	36	Mouth of Riv. Yodo (Osaka City)	240
	37	Osaka Port	380
	38	Outside Osaka Port	54
Hyogo Pref.	39	Offshore of Himeji	19
Kobe City	40	Kobe Port (center)	24
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	tr(1)
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	15
Okayama Pref.	43	Offshore of Mizushima	5
Hiroshima Pref.	44	Kure Port	14
	45	Hiroshima Bay	52
Yamaguchi Pref.	46	Tokuyama Bay	420
	47	Offshore of Ube	37
	48	Offshore of Hagi	tr(2)
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	79
Ehime Pref.	51	Niihama Port	5
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	130
Fukuoka City	54	Hakata Bay	12
Saga Pref.	55	Imari Bay	14
Nagasaki Pref.	56	Omura Bay	3
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	77

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-3-1] 2,2',4,4',5,5'-Hexabromodiphenyl ether (#153) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 40/61 (Missing value : 0)

Detection Frequency (sample) : 40/61 (Missing value : 0)

Detection limit : 1

Quantification limit : 3

	Aggregated value
Geometric mean	3
Median	tr(2)
Maximum	180
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(1)
	2	Tomakomai Port	150
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	4
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	tr(1)
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	tr(1)
Fukushima Pref.	8	Onahama Port	33
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	3
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(2)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	9
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	3
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	20
	14	Mouth of Riv. Sumida (Minato Ward)	28
Yokohama City	15	Yokohama Port	6
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	9
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	60
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	6
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	tr(1)
Nagano Pref.	23	Lake Suwa (center)	4
Shizuoka Pref.	24	Shimizu Port	17
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	tr(2)
Mie Pref.	28	Yokkaichi Port	17
	29	Toba Port	nd
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	9
	31	Lake Biwa (center, offshore of Karasaki)	3
Kyoto Pref.	32	Miyazu Port	nd
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	120
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	13
	36	Mouth of Riv. Yodo (Osaka City)	180
	37	Osaka Port	120
	38	Outside Osaka Port	33
Hyogo Pref.	39	Offshore of Himeji	tr(2)
Kobe City	40	Kobe Port (center)	3
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	tr(1)
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(2)
Okayama Pref.	43	Offshore of Mizushima	tr(1)
Hiroshima Pref.	44	Kure Port	tr(1)
	45	Hiroshima Bay	nd
Yamaguchi Pref.	46	Tokuyama Bay	5
	47	Offshore of Ube	4
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	9
Ehime Pref.	51	Niihama Port	nd
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	16
Fukuoka City	54	Hakata Bay	tr(1)
Saga Pref.	55	Imari Bay	nd
Nagasaki Pref.	56	Omura Bay	nd
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	9

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-3-2] 2,2',4,4',5,6'-Hexabromodiphenyl ether (#154) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 41/61 (Missing value : 0)

Detection Frequency (sample) : 41/61 (Missing value : 0)

Detection limit : 1

Quantification limit : 3

	Aggregated value
Geometric mean	tr(2)
Median	tr(2)
Maximum	56
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(1)
	2	Tomakomai Port	39
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	3
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	3
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	tr(2)
Fukushima Pref.	8	Onahama Port	26
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	5
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(2)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	3
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	tr(1)
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	23
	14	Mouth of Riv. Sumida (Minato Ward)	18
Yokohama City	15	Yokohama Port	8
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	4
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	19
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	4
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	tr(1)
Nagano Pref.	23	Lake Suwa (center)	7
Shizuoka Pref.	24	Shimizu Port	3
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	tr(2)
Mie Pref.	28	Yokkaichi Port	7
	29	Toba Port	nd
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	11
	31	Lake Biwa (center, offshore of Karasaki)	4
Kyoto Pref.	32	Miyazu Port	nd
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	26
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	10
	36	Mouth of Riv. Yodo (Osaka City)	56
	37	Osaka Port	9
	38	Outside Osaka Port	tr(2)
Hyogo Pref.	39	Offshore of Himeji	tr(2)
Kobe City	40	Kobe Port (center)	tr(2)
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	nd
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	3
Okayama Pref.	43	Offshore of Mizushima	nd
Hiroshima Pref.	44	Kure Port	tr(2)
	45	Hiroshima Bay	6
Yamaguchi Pref.	46	Tokuyama Bay	33
	47	Offshore of Ube	7
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	10
Ehime Pref.	51	Niihama Port	tr(1)
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	15
Fukuoka City	54	Hakata Bay	tr(2)
Saga Pref.	55	Imari Bay	3
Nagasaki Pref.	56	Omura Bay	nd
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	8

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-4] Heptabromodiphenyl ethers /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 39/61 (Missing value : 0)

Detection Frequency (sample) : 39/61 (Missing value : 0)

Detection limit : 3

Quantification limit : 8

	Aggregated value
Geometric mean	10
Median	12
Maximum	940
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(3)
	2	Tomakomai Port	12
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	15
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	tr(4)
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	120
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	15
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	50
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	180
	14	Mouth of Riv. Sumida (Minato Ward)	310
Yokohama City	15	Yokohama Port	50
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	20
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	57
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	55
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	tr(7)
Nagano Pref.	23	Lake Suwa (center)	47
Shizuoka Pref.	24	Shimizu Port	tr(4)
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	22
Mie Pref.	28	Yokkaichi Port	180
	29	Toba Port	nd
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	58
	31	Lake Biwa (center, offshore of Karasaki)	21
Kyoto Pref.	32	Miyazu Port	tr(4)
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	180
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	87
	36	Mouth of Riv. Yodo (Osaka City)	68
	37	Osaka Port	940
	38	Outside Osaka Port	27
Hyogo Pref.	39	Offshore of Himeji	16
Kobe City	40	Kobe Port (center)	27
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	nd
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	12
Okayama Pref.	43	Offshore of Mizushima	tr(3)
	44	Kure Port	12
Hiroshima Pref.	45	Hiroshima Bay	35
	46	Tokuyama Bay	170
Yamaguchi Pref.	47	Offshore of Ube	19
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	100
Ehime Pref.	51	Niihama Port	nd
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	130
Fukuoka City	54	Hakata Bay	tr(7)
Saga Pref.	55	Imari Bay	tr(4)
Nagasaki Pref.	56	Omura Bay	nd
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	100

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-4-1] 2,2',3,3',4,5',6-Heptabromodiphenyl ether (#175) /sediment (pg/g-dry) and

[14-4-2] 2,2',3,4,4',5',6Heptabromodiphenyl ether (#183) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 35/61 (Missing value : 0)

Detection Frequency (sample) : 35/61 (Missing value : 0)

Detection limit : 3

Quantification limit : 8

	Aggregated value
Geometric mean	tr(6)
Median	tr(4)
Maximum	820
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(3)
	2	Tomakomai Port	12
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	15
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	63
Ibaraki Pref.	9	Tonekamome-ohasi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(6)
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	32
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	88
	14	Mouth of Riv. Sumida (Minato Ward)	130
Yokohama City	15	Yokohama Port	21
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	10
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	20
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	14
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	tr(3)
Nagano Pref.	23	Lake Suwa (center)	22
Shizuoka Pref.	24	Shimizu Port	nd
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	tr(7)
Mie Pref.	28	Yokkaichi Port	140
	29	Toba Port	nd
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	34
	31	Lake Biwa (center, offshore of Karasaki)	8
Kyoto Pref.	32	Miyazu Port	tr(4)
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	73
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	25
	36	Mouth of Riv. Yodo (Osaka City)	68
	37	Osaka Port	820
	38	Outside Osaka Port	20
Hyogo Pref.	39	Offshore of Himeji	8
Kobe City	40	Kobe Port (center)	19
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	nd
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(4)
Okayama Pref.	43	Offshore of Mizushima	tr(3)
Hiroshima Pref.	44	Kure Port	tr(4)
	45	Hiroshima Bay	8
Yamaguchi Pref.	46	Tokuyama Bay	26
	47	Offshore of Ube	19
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	23
Ehime Pref.	51	Niihama Port	nd
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	43
Fukuoka City	54	Hakata Bay	nd
Saga Pref.	55	Imari Bay	nd
Nagasaki Pref.	56	Omura Bay	nd
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	49

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-5] Octabromodiphenyl ethers /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 45/61 (Missing value : 0)

Detection Frequency (sample) : 45/61 (Missing value : 0)

Detection limit : 3

Quantification limit : 7

	Aggregated value
Geometric mean	31
Median	49
Maximum	1,600
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	16
	2	Tomakomai Port	28
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	49
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	24
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	31
Fukushima Pref.	8	Onahama Port	250
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	110
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	13
Chiba Pref.	11	Coast of Ichihara and Anegasaki	130
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	14
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	430
	14	Mouth of Riv. Sumida (Minato Ward)	720
Yokohama City	15	Yokohama Port	150
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	91
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	190
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	13
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	360
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	63
Nagano Pref.	23	Lake Suwa (center)	140
Shizuoka Pref.	24	Shimizu Port	20
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	tr(3)
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	220
Mie Pref.	28	Yokkaichi Port	390
	29	Toba Port	25
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	130
	31	Lake Biwa (center, offshore of Karasaki)	71
Kyoto Pref.	32	Miyazu Port	nd
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	490
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	300
	36	Mouth of Riv. Yodo (Osaka City)	480
	37	Osaka Port	1,000
	38	Outside Osaka Port	86
Hyogo Pref.	39	Offshore of Himeji	81
Kobe City	40	Kobe Port (center)	62
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	nd
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	84
Okayama Pref.	43	Offshore of Mizushima	10
Hiroshima Pref.	44	Kure Port	57
	45	Hiroshima Bay	160
Yamaguchi Pref.	46	Tokuyama Bay	1,600
	47	Offshore of Ube	58
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	420
Ehime Pref.	51	Niihama Port	16
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	440
Fukuoka City	54	Hakata Bay	30
Saga Pref.	55	Imari Bay	34
Nagasaki Pref.	56	Omura Bay	nd
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	300

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-6] Nonabromodiphenyl ethers /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 56/61 (Missing value : 0)

Detection Frequency (sample) : 56/61 (Missing value : 0)

Detection limit : 5

Quantification limit : 14

	Aggregated value
Geometric mean	340
Median	510
Maximum	43,000
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	120
	2	Tomakomai Port	130
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	570
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	18
Akita Pref.	6	Lake Hachiro	100
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	380
Fukushima Pref.	8	Onahama Port	1,700
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	2,200
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	64
Chiba Pref.	11	Coast of Ichihara and Anegasaki	1,800
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	120
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	3,500
	14	Mouth of Riv. Sumida (Minato Ward)	5,000
Yokohama City	15	Yokohama Port	1,300
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	990
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,700
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	230
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	26
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	7,600
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	27
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	700
Nagano Pref.	23	Lake Suwa (center)	940
Shizuoka Pref.	24	Shimizu Port	200
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	92
Aichi Pref.	26	Kinuura Port	97
	27	Nagoya Port	5,500
Mie Pref.	28	Yokkaichi Port	3,900
	29	Toba Port	200
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	520
	31	Lake Biwa (center, offshore of Karasaki)	510
Kyoto Pref.	32	Miyazu Port	110
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	61
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	2,600
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	5,000
	36	Mouth of Riv. Yodo (Osaka City)	5,400
	37	Osaka Port	7,800
	38	Outside Osaka Port	1,200
Hyogo Pref.	39	Offshore of Himeji	620
Kobe City	40	Kobe Port (center)	720
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	26
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	2,200
Okayama Pref.	43	Offshore of Mizushima	140
Hiroshima Pref.	44	Kure Port	760
	45	Hiroshima Bay	1,800
Yamaguchi Pref.	46	Tokuyama Bay	43,000
	47	Offshore of Ube	650
	48	Offshore of Hagi	39
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	5,500
Ehime Pref.	51	Niihama Port	160
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	110
Kitakyushu City	53	Dokai Bay	4,600
Fukuoka City	54	Hakata Bay	510
Saga Pref.	55	Imari Bay	390
Nagasaki Pref.	56	Omura Bay	120
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	tr(12)
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	3,200

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-7] Decabromodiphenyl ether /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 8

Quantification limit : 21

	Aggregated value
Geometric mean	3,300
Median	4,100
Maximum	410,000
Minimum	tr(17)

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	1,000
	2	Tomakomai Port	1,300
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	40
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	4,900
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	94
Akita Pref.	6	Lake Hachiro	770
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	3,200
Fukushima Pref.	8	Onahama Port	14,000
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	20,000
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	410
Chiba Pref.	11	Coast of Ichihara and Anegasaki	16,000
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	1,200
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	64,000
	14	Mouth of Riv. Sumida (Minato Ward)	75,000
Yokohama City	15	Yokohama Port	15,000
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	8,600
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	22,000
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	1,600
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	170
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	81,000
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	200
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	6,000
Nagano Pref.	23	Lake Suwa (center)	6,200
Shizuoka Pref.	24	Shimizu Port	1,900
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	740
Aichi Pref.	26	Kinuura Port	930
	27	Nagoya Port	71,000
Mie Pref.	28	Yokkaichi Port	41,000
	29	Toba Port	2,000
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	3,700
	31	Lake Biwa (center, offshore of Karasaki)	4,300
Kyoto Pref.	32	Miyazu Port	950
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	460
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	41,000
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	44,000
	36	Mouth of Riv. Yodo (Osaka City)	47,000
	37	Osaka Port	190,000
	38	Outside Osaka Port	18,000
Hyogo Pref.	39	Offshore of Himeji	5,300
Kobe City	40	Kobe Port (center)	14,000
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	200
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	29,000
Okayama Pref.	43	Offshore of Mizushima	1,200
Hiroshima Pref.	44	Kure Port	7,000
	45	Hiroshima Bay	13,000
Yamaguchi Pref.	46	Tokuyama Bay	410,000
	47	Offshore of Ube	8,200
	48	Offshore of Hagi	250
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	71
Kagawa Pref.	50	Takamatsu Port	40,000
Ehime Pref.	51	Niihama Port	1,400
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	950
Kitakyushu City	53	Dokai Bay	65,000
Fukuoka City	54	Hakata Bay	4,100
Saga Pref.	55	Imari Bay	3,300
Nagasaki Pref.	56	Omura Bay	740
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	130
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	tr(17)
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	62
	60	Riv. Gotanda (Ichikikushikino City)	tr(19)
Okinawa Pref.	61	Naha Port	47,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[15] Perfluorooctane sulfonic acid (PFOS)/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 4

Quantification limit : 9

	Aggregated value
Geometric mean	55
Median	61
Maximum	710
Minimum	tr(5)

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	45
	2	Tomakomai Port	130
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	28
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	63
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	48
Akita Pref.	6	Lake Hachiro	59
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	46
Fukushima Pref.	8	Onahama Port	22
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	75
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	61
Chiba Pref.	11	Coast of Ichihara and Anegasaki	270
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	16
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	260
	14	Mouth of Riv. Sumida (Minato Ward)	710
Yokohama City	15	Yokohama Port	210
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	60
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	180
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	27
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	11
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	61
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	24
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	35
Nagano Pref.	23	Lake Suwa (center)	140
Shizuoka Pref.	24	Shimizu Port	16
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	27
Aichi Pref.	26	Kinuura Port	11
	27	Nagoya Port	59
Mie Pref.	28	Yokkaichi Port	70
	29	Toba Port	65
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	320
	31	Lake Biwa (center, offshore of Karasaki)	180
Kyoto Pref.	32	Miyazu Port	13
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	48
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	390
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	190
	36	Mouth of Riv. Yodo (Osaka City)	100
	37	Osaka Port	110
	38	Outside Osaka Port	85
Hyogo Pref.	39	Offshore of Himeji	97
Kobe City	40	Kobe Port (center)	110
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	150
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	21
Okayama Pref.	43	Offshore of Mizushima	51
	44	Kure Port	99
Hiroshima Pref.	45	Hiroshima Bay	84
	46	Tokuyama Bay	110
Yamaguchi Pref.	47	Offshore of Ube	28
	48	Offshore of Hagi	16
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	tr(8)
Kagawa Pref.	50	Takamatsu Port	70
Ehime Pref.	51	Niihama Port	70
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	tr(5)
Kitakyushu City	53	Dokai Bay	67
Fukuoka City	54	Hakata Bay	78
Saga Pref.	55	Imari Bay	33
Nagasaki Pref.	56	Omura Bay	260
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	12
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	tr(7)
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	9
	60	Riv. Gotanda (Ichikikushikino City)	15
Okinawa Pref.	61	Naha Port	110

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[16] Perfluorooctanoic acid (PFOA)/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 3

Quantification limit : 7

	Aggregated value
Geometric mean	29
Median	26
Maximum	370
Minimum	tr(5)

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	14
	2	Tomakomai Port	23
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	48
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	39
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	22
Akita Pref.	6	Lake Hachiro	26
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	13
Fukushima Pref.	8	Onahama Port	26
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	25
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	13
Chiba Pref.	11	Coast of Ichihara and Anegasaki	51
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	8
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	31
	14	Mouth of Riv. Sumida (Minato Ward)	42
Yokohama City	15	Yokohama Port	28
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	12
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	60
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	tr(6)
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(5)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	32
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	22
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	16
Nagano Pref.	23	Lake Suwa (center)	23
Shizuoka Pref.	24	Shimizu Port	31
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	17
Aichi Pref.	26	Kinuura Port	7
	27	Nagoya Port	23
Mie Pref.	28	Yokkaichi Port	22
	29	Toba Port	46
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	100
	31	Lake Biwa (center, offshore of Karasaki)	71
Kyoto Pref.	32	Miyazu Port	57
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	32
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	100
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	120
	36	Mouth of Riv. Yodo (Osaka City)	47
	37	Osaka Port	370
	38	Outside Osaka Port	63
Hyogo Pref.	39	Offshore of Himeji	45
Kobe City	40	Kobe Port (center)	39
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	67
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	15
Okayama Pref.	43	Offshore of Mizushima	41
Hiroshima Pref.	44	Kure Port	22
	45	Hiroshima Bay	20
Yamaguchi Pref.	46	Tokuyama Bay	29
	47	Offshore of Ube	18
	48	Offshore of Hagi	67
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	14
Kagawa Pref.	50	Takamatsu Port	31
Ehime Pref.	51	Niihama Port	26
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	16
Kitakyushu City	53	Dokai Bay	34
Fukuoka City	54	Hakata Bay	77
Saga Pref.	55	Imari Bay	91
Nagasaki Pref.	56	Omura Bay	150
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	15
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	18
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	7
	60	Riv. Gotanda (Ichikikushikino City)	10
Okinawa Pref.	61	Naha Port	14

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[17] Pentachlorobenzene/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 61/61 (Missing value : 0)

Detection Frequency (sample) : 61/61 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.6

	Aggregated value
Geometric mean	24
Median	25
Maximum	1,300
Minimum	tr(0.5)

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	81
	2	Tomakomai Port	32
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	15
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	64
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	1.5
Akita Pref.	6	Lake Hachiro	16
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	34
Fukushima Pref.	8	Onahama Port	1,300
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	100
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	4.6
Chiba Pref.	11	Coast of Ichihara and Anegasaki	60
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	3.9
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	300
	14	Mouth of Riv. Sumida (Minato Ward)	180
Yokohama City	15	Yokohama Port	66
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	52
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	370
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	43
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	15
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	76
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	31
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	9.0
Nagano Pref.	23	Lake Suwa (center)	160
Shizuoka Pref.	24	Shimizu Port	25
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	14
Aichi Pref.	26	Kinuura Port	1.6
	27	Nagoya Port	11
Mie Pref.	28	Yokkaichi Port	57
	29	Toba Port	27
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	59
	31	Lake Biwa (center, offshore of Karasaki)	19
Kyoto Pref.	32	Miyazu Port	3.6
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	21
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	76
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	93
	36	Mouth of Riv. Yodo (Osaka City)	68
	37	Osaka Port	200
	38	Outside Osaka Port	32
Hyogo Pref.	39	Offshore of Himeji	32
Kobe City	40	Kobe Port (center)	25
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	1.0
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	35
Okayama Pref.	43	Offshore of Mizushima	7.9
Hiroshima Pref.	44	Kure Port	22
	45	Hiroshima Bay	7.7
Yamaguchi Pref.	46	Tokuyama Bay	35
	47	Offshore of Ube	13
	48	Offshore of Hagi	3.0
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	7.5
Kagawa Pref.	50	Takamatsu Port	39
Ehime Pref.	51	Niihama Port	180
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	20
Kitakyushu City	53	Dokai Bay	1,300
Fukuoka City	54	Hakata Bay	9.1
Saga Pref.	55	Imari Bay	24
Nagasaki Pref.	56	Omura Bay	18
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	1.4
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	3.0
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	0.9
	60	Riv. Gotanda (Ichikikushikino City)	tr(0.5)
Okinawa Pref.	61	Naha Port	15

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[19] 1,2,5,6,9,10-Hexabromocyclododecanes /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 33/61 (Missing value : 0)

Detection Frequency (sample) : 33/61 (Missing value : 0)

Detection limit : *240

Quantification limit : *570

	Aggregated value
Geometric mean	580
Median	tr(320)
Maximum	38,000
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	710
	2	Tomakomai Port	1,900
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	tr(520)
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	tr(240)
Fukushima Pref.	8	Onahama Port	4,600
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	1,100
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	2,300
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	2,700
	14	Mouth of Riv. Sumida (Minato Ward)	14,000
Yokohama City	15	Yokohama Port	tr(480)
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	4,300
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	3,800
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	1,400
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	3,900
Shizuoka Pref.	24	Shimizu Port	nd
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	1,200
Mie Pref.	28	Yokkaichi Port	37,000
	29	Toba Port	1,600
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	750
	31	Lake Biwa (center, offshore of Karasaki)	tr(320)
Kyoto Pref.	32	Miyazu Port	nd
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	38,000
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	8,800
	36	Mouth of Riv. Yodo (Osaka City)	7,800
	37	Osaka Port	5,200
	38	Outside Osaka Port	760
Hyogo Pref.	39	Offshore of Himeji	990
Kobe City	40	Kobe Port (center)	1,600
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	2,300
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(290)
Okayama Pref.	43	Offshore of Mizushima	nd
Hiroshima Pref.	44	Kure Port	1,500
	45	Hiroshima Bay	7,800
Yamaguchi Pref.	46	Tokuyama Bay	nd
	47	Offshore of Ube	nd
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	4,000
Ehime Pref.	51	Niihama Port	nd
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	690
Fukuoka City	54	Hakata Bay	nd
Saga Pref.	55	Imari Bay	nd
Nagasaki Pref.	56	Omura Bay	nd
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	14,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

(Note 2) Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

(Note 5) * : Indicates the sum value of the Quantification [Detection] limits of each target chemicals.

[19-1] α -1,2,5,6,9,10-Hexabromocyclododecane /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 41/61 (Missing value : 0)

Detection Frequency (sample) : 41/61 (Missing value : 0)

Detection limit : 70

Quantification limit : 160

	Aggregated value
Geometric mean	230
Median	190
Maximum	9,600
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	500
	2	Tomakomai Port	330
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	350
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	tr(100)
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	200
Fukushima Pref.	8	Onahama Port	810
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(90)
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(150)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	1,800
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	1,300
	14	Mouth of Riv. Sumida (Minato Ward)	9,600
Yokohama City	15	Yokohama Port	210
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	3,000
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	2,300
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	190
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	750
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	2,200
Shizuoka Pref.	24	Shimizu Port	tr(70)
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	370
Mie Pref.	28	Yokkaichi Port	4,900
	29	Toba Port	1,100
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	430
	31	Lake Biwa (center, offshore of Karasaki)	180
Kyoto Pref.	32	Miyazu Port	nd
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	3,700
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	2,900
	36	Mouth of Riv. Yodo (Osaka City)	1,500
	37	Osaka Port	2,800
	38	Outside Osaka Port	370
Hyogo Pref.	39	Offshore of Himeji	520
Kobe City	40	Kobe Port (center)	290
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	360
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(80)
Okayama Pref.	43	Offshore of Mizushima	nd
Hiroshima Pref.	44	Kure Port	460
	45	Hiroshima Bay	1,300
Yamaguchi Pref.	46	Tokuyama Bay	tr(120)
	47	Offshore of Ube	nd
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	2,200
Ehime Pref.	51	Niihama Port	nd
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	300
Fukuoka City	54	Hakata Bay	tr(110)
Saga Pref.	55	Imari Bay	160
Nagasaki Pref.	56	Omura Bay	tr(120)
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	9,300

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[19-2] β -1,2,5,6,9,10-Hexabromocyclododecane /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 30/61 (Missing value : 0)

Detection Frequency (sample) : 30/61 (Missing value : 0)

Detection limit : 40

Quantification limit : 100

	Aggregated value
Geometric mean	tr(70)
Median	nd
Maximum	4,000
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(70)
	2	Tomakomai Port	430
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	nd
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	170
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(40)
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	270
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	280
	14	Mouth of Riv. Sumida (Minato Ward)	1,700
Yokohama City	15	Yokohama Port	tr(50)
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	570
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	400
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	180
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	400
Shizuoka Pref.	24	Shimizu Port	nd
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	tr(90)
Mie Pref.	28	Yokkaichi Port	4,000
	29	Toba Port	220
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	tr(70)
	31	Lake Biwa (center, offshore of Karasaki)	tr(50)
Kyoto Pref.	32	Miyazu Port	nd
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	770
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	840
	36	Mouth of Riv. Yodo (Osaka City)	250
	37	Osaka Port	420
	38	Outside Osaka Port	tr(80)
Hyogo Pref.	39	Offshore of Himeji	110
Kobe City	40	Kobe Port (center)	tr(50)
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	100
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	43	Offshore of Mizushima	nd
Hiroshima Pref.	44	Kure Port	140
	45	Hiroshima Bay	750
Yamaguchi Pref.	46	Tokuyama Bay	nd
	47	Offshore of Ube	nd
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	410
Ehime Pref.	51	Niihama Port	nd
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	tr(80)
Fukuoka City	54	Hakata Bay	nd
Saga Pref.	55	Imari Bay	nd
Nagasaki Pref.	56	Omura Bay	nd
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	1,900

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[19-3] γ -1,2,5,6,9,10-Hexabromocyclododecane /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 41/61 (Missing value : 0)

Detection Frequency (sample) : 41/61 (Missing value : 0)

Detection limit : 30

Quantification limit : 70

	Aggregated value
Geometric mean	170
Median	170
Maximum	33,000
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	140
	2	Tomakomai Port	1,100
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	170
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	100
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	tr(40)
Fukushima Pref.	8	Onahama Port	3,600
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	1,000
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	230
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	1,100
	14	Mouth of Riv. Sumida (Minato Ward)	2,800
Yokohama City	15	Yokohama Port	220
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	700
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	1,100
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	70
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(40)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	460
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	1,300
Shizuoka Pref.	24	Shimizu Port	tr(30)
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	710
Mie Pref.	28	Yokkaichi Port	28,000
	29	Toba Port	260
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	250
	31	Lake Biwa (center, offshore of Karasaki)	90
Kyoto Pref.	32	Miyazu Port	nd
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	170
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	33,000
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	5,100
	36	Mouth of Riv. Yodo (Osaka City)	6,100
	37	Osaka Port	2,000
	38	Outside Osaka Port	310
Hyogo Pref.	39	Offshore of Himeji	360
Kobe City	40	Kobe Port (center)	1,300
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	1,800
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	210
Okayama Pref.	43	Offshore of Mizushima	nd
	44	Kure Port	870
Hiroshima Pref.	45	Hiroshima Bay	5,700
	46	Tokuyama Bay	nd
Yamaguchi Pref.	47	Offshore of Ube	nd
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	1,400
Ehime Pref.	51	Niihama Port	210
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	310
Fukuoka City	54	Hakata Bay	tr(60)
Saga Pref.	55	Imari Bay	nd
Nagasaki Pref.	56	Omura Bay	80
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	3,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[19-4] δ -1,2,5,6,9,10-Hexabromocyclododecane /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 1/61 (Missing value : 0)

Detection Frequency (sample) : 1/61 (Missing value : 0)

Detection limit : 50

Quantification limit : 110

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(70)
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
	2	Tomakomai Port	nd
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	nd
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	nd
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	nd
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	nd
	14	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	15	Yokohama Port	nd
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	nd
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	nd
Shizuoka Pref.	24	Shimizu Port	nd
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	nd
Mie Pref.	28	Yokkaichi Port	nd
	29	Toba Port	nd
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	nd
	31	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	32	Miyazu Port	nd
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	tr(70)
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	nd
	36	Mouth of Riv. Yodo (Osaka City)	nd
	37	Osaka Port	nd
	38	Outside Osaka Port	nd
Hyogo Pref.	39	Offshore of Himeji	nd
Kobe City	40	Kobe Port (center)	nd
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	nd
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	43	Offshore of Mizushima	nd
Hiroshima Pref.	44	Kure Port	nd
	45	Hiroshima Bay	nd
Yamaguchi Pref.	46	Tokuyama Bay	nd
	47	Offshore of Ube	nd
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	nd
Ehime Pref.	51	Niihama Port	nd
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	nd
Fukuoka City	54	Hakata Bay	nd
Saga Pref.	55	Imari Bay	nd
Nagasaki Pref.	56	Omura Bay	nd
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[19-5] ε -1,2,5,6,9,10-Hexabromocyclododecane /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 0/61 (Missing value : 0)

Detection Frequency (sample) : 0/61 (Missing value : 0)

Detection limit : 50

Quantification limit : 130

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
	2	Tomakomai Port	nd
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	nd
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	nd
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	nd
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	nd
	14	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	15	Yokohama Port	nd
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	nd
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	nd
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	nd
Shizuoka Pref.	24	Shimizu Port	nd
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	nd
Mie Pref.	28	Yokkaichi Port	nd
	29	Toba Port	nd
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	nd
	31	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	32	Miyazu Port	nd
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	nd
	36	Mouth of Riv. Yodo (Osaka City)	nd
	37	Osaka Port	nd
	38	Outside Osaka Port	nd
Hyogo Pref.	39	Offshore of Himeji	nd
Kobe City	40	Kobe Port (center)	nd
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	nd
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	43	Offshore of Mizushima	nd
	44	Kure Port	nd
Hiroshima Pref.	45	Hiroshima Bay	nd
	46	Tokuyama Bay	nd
Yamaguchi Pref.	47	Offshore of Ube	nd
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	nd
Ehime Pref.	51	Niihama Port	nd
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	nd
Fukuoka City	54	Hakata Bay	nd
Saga Pref.	55	Imari Bay	nd
Nagasaki Pref.	56	Omura Bay	nd
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

[21] Hexachlorobuta-1,3-diene /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 4/61 (Missing value : 0)

Detection Frequency (sample) : 4/61 (Missing value : 0)

Detection limit : 10

Quantification limit : 30

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	370
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
	2	Tomakomai Port	nd
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	nd
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	370
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	nd
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	nd
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	30
	14	Mouth of Riv. Sumida (Minato Ward)	nd
Yokohama City	15	Yokohama Port	nd
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	nd
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	40
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	nd
Shizuoka Pref.	24	Shimizu Port	nd
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	nd
Mie Pref.	28	Yokkaichi Port	nd
	29	Toba Port	nd
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	nd
	31	Lake Biwa (center, offshore of Karasaki)	nd
Kyoto Pref.	32	Miyazu Port	nd
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	nd
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	nd
	36	Mouth of Riv. Yodo (Osaka City)	nd
	37	Osaka Port	nd
	38	Outside Osaka Port	nd
Hyogo Pref.	39	Offshore of Himeji	nd
Kobe City	40	Kobe Port (center)	nd
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	nd
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	43	Offshore of Mizushima	nd
	44	Kure Port	nd
Hiroshima Pref.	45	Hiroshima Bay	nd
	46	Tokuyama Bay	nd
	47	Offshore of Ube	nd
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	nd
Ehime Pref.	51	Niihama Port	170
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	nd
Fukuoka City	54	Hakata Bay	nd
Saga Pref.	55	Imari Bay	nd
Nagasaki Pref.	56	Omura Bay	nd
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[23] Short-chain chlorinated paraffins/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 53/61 (Missing value : 0)

Detection Frequency (sample) : 53/61 (Missing value : 0)

Detection limit : *570

Quantification limit : *1,400

	Aggregated value
Geometric mean	3,100
Median	1,800
Maximum	60,000
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(1,100)
	2	Tomakomai Port	7,600
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	1,500
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	tr(970)
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	tr(800)
Fukushima Pref.	8	Onahama Port	9,600
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(1,200)
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(700)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	2,400
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	1,400
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	29,000
	14	Mouth of Riv. Sumida (Minato Ward)	60,000
Yokohama City	15	Yokohama Port	36,000
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	3,600
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	27,000
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	tr(1,200)
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(670)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	6,000
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(1,100)
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	1,700
Nagano Pref.	23	Lake Suwa (center)	3,000
Shizuoka Pref.	24	Shimizu Port	tr(1,200)
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	10,000
Aichi Pref.	26	Kinuura Port	tr(1,200)
	27	Nagoya Port	15,000
Mie Pref.	28	Yokkaichi Port	2,200
	29	Toba Port	38,000
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	7,200
	31	Lake Biwa (center, offshore of Karasaki)	1,600
Kyoto Pref.	32	Miyazu Port	tr(670)
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(580)
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	37,000
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	38,000
	36	Mouth of Riv. Yodo (Osaka City)	56,000
	37	Osaka Port	27,000
	38	Outside Osaka Port	17,000
Hyogo Pref.	39	Offshore of Himeji	1,900
Kobe City	40	Kobe Port (center)	31,000
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	tr(580)
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	1,400
Okayama Pref.	43	Offshore of Mizushima	10,000
	44	Kure Port	26,000
Hiroshima Pref.	45	Hiroshima Bay	1,800
	46	Tokuyama Bay	6,600
Yamaguchi Pref.	47	Offshore of Ube	1,600
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	34,000
Ehime Pref.	51	Niihama Port	2,500
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	tr(1,100)
Kitakyushu City	53	Dokai Bay	23,000
Fukuoka City	54	Hakata Bay	tr(1,100)
Saga Pref.	55	Imari Bay	10,000
Nagasaki Pref.	56	Omura Bay	tr(1,000)
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	46,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

(Note 5) * : Indicates the sum value of the Quantification [Detection] limits of each substance with the same number of carbons in the alkyl group.

[23-1] Chlorinated decanes/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 48/61 (Missing value : 0)

Detection Frequency (sample) : 48/61 (Missing value : 0)

Detection limit : 70

Quantification limit : 210

	Aggregated value
Geometric mean	300
Median	tr(180)
Maximum	6,500
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
	2	Tomakomai Port	580
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	tr(90)
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	tr(70)
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	690
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(80)
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	tr(180)
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	3,300
	14	Mouth of Riv. Sumida (Minato Ward)	3,000
Yokohama City	15	Yokohama Port	4,800
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	240
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	5,800
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	tr(110)
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(70)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	520
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(80)
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	tr(100)
Nagano Pref.	23	Lake Suwa (center)	290
Shizuoka Pref.	24	Shimizu Port	tr(80)
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	630
Aichi Pref.	26	Kinuura Port	tr(90)
	27	Nagoya Port	3,600
Mie Pref.	28	Yokkaichi Port	330
	29	Toba Port	6,400
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	740
	31	Lake Biwa (center, offshore of Karasaki)	tr(160)
Kyoto Pref.	32	Miyazu Port	tr(70)
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(80)
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	6,500
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	3,800
	36	Mouth of Riv. Yodo (Osaka City)	4,700
	37	Osaka Port	2,700
	38	Outside Osaka Port	4,700
Hyogo Pref.	39	Offshore of Himeji	220
Kobe City	40	Kobe Port (center)	4,700
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	tr(80)
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(150)
Okayama Pref.	43	Offshore of Mizushima	690
Hiroshima Pref.	44	Kure Port	5,600
	45	Hiroshima Bay	tr(140)
Yamaguchi Pref.	46	Tokuyama Bay	850
	47	Offshore of Ube	210
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	1,600
Ehime Pref.	51	Niihama Port	490
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	3,900
Fukuoka City	54	Hakata Bay	tr(70)
Saga Pref.	55	Imari Bay	580
Nagasaki Pref.	56	Omura Bay	tr(110)
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	5,200

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[23-2] Chlorinated undecanes/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 57/61 (Missing value : 0)

Detection Frequency (sample) : 57/61 (Missing value : 0)

Detection limit : 100

Quantification limit : 300

	Aggregated value
Geometric mean	700
Median	300
Maximum	16,000
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	300
	2	Tomakomai Port	1,600
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	tr(100)
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	300
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	tr(100)
Akita Pref.	6	Lake Hachiro	tr(200)
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	tr(200)
Fukushima Pref.	8	Onahama Port	1,200
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(200)
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(200)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	400
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	300
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	8,600
	14	Mouth of Riv. Sumida (Minato Ward)	16,000
Yokohama City	15	Yokohama Port	14,000
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	800
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	8,000
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	tr(200)
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(100)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	1,200
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(200)
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	300
Nagano Pref.	23	Lake Suwa (center)	800
Shizuoka Pref.	24	Shimizu Port	300
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	1,200
Aichi Pref.	26	Kinuura Port	tr(200)
	27	Nagoya Port	4,600
Mie Pref.	28	Yokkaichi Port	500
	29	Toba Port	4,500
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	1,400
	31	Lake Biwa (center, offshore of Karasaki)	300
Kyoto Pref.	32	Miyazu Port	tr(100)
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(100)
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	9,100
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	8,100
	36	Mouth of Riv. Yodo (Osaka City)	9,700
	37	Osaka Port	8,500
	38	Outside Osaka Port	6,300
Hyogo Pref.	39	Offshore of Himeji	300
Kobe City	40	Kobe Port (center)	9,900
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	tr(100)
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	tr(200)
Okayama Pref.	43	Offshore of Mizushima	1,300
Hiroshima Pref.	44	Kure Port	5,200
	45	Hiroshima Bay	400
Yamaguchi Pref.	46	Tokuyama Bay	900
	47	Offshore of Ube	300
	48	Offshore of Hagi	tr(200)
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	5,000
Ehime Pref.	51	Niihama Port	500
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	300
Kitakyushu City	53	Dokai Bay	7,300
Fukuoka City	54	Hakata Bay	300
Saga Pref.	55	Imari Bay	1,600
Nagasaki Pref.	56	Omura Bay	tr(200)
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	tr(100)
Okinawa Pref.	61	Naha Port	9,300

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[23-3] Chlorinated dodecanes/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 53/61 (Missing value : 0)

Detection Frequency (sample) : 53/61 (Missing value : 0)

Detection limit : 200

Quantification limit : 400

	Aggregated value
Geometric mean	900
Median	500
Maximum	19,000
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	400
	2	Tomakomai Port	2,300
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	400
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	400
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	tr(300)
Fukushima Pref.	8	Onahama Port	3,000
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(300)
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(200)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	800
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	400
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	11,000
	14	Mouth of Riv. Sumida (Minato Ward)	19,000
Yokohama City	15	Yokohama Port	10,000
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	800
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	6,000
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	400
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(200)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	1,900
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	tr(300)
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	400
Nagano Pref.	23	Lake Suwa (center)	800
Shizuoka Pref.	24	Shimizu Port	tr(300)
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	2,700
Aichi Pref.	26	Kinuura Port	tr(300)
	27	Nagoya Port	4,800
Mie Pref.	28	Yokkaichi Port	500
	29	Toba Port	13,000
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	2,400
	31	Lake Biwa (center, offshore of Karasaki)	500
Kyoto Pref.	32	Miyazu Port	tr(200)
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(200)
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	9,400
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	12,000
	36	Mouth of Riv. Yodo (Osaka City)	14,000
	37	Osaka Port	6,600
	38	Outside Osaka Port	2,000
Hyogo Pref.	39	Offshore of Himeji	500
Kobe City	40	Kobe Port (center)	7,600
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	tr(200)
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	400
Okayama Pref.	43	Offshore of Mizushima	2,800
Hiroshima Pref.	44	Kure Port	5,900
	45	Hiroshima Bay	400
Yamaguchi Pref.	46	Tokuyama Bay	2,200
	47	Offshore of Ube	400
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	9,900
Ehime Pref.	51	Niihama Port	500
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	tr(200)
Kitakyushu City	53	Dokai Bay	3,900
Fukuoka City	54	Hakata Bay	tr(300)
Saga Pref.	55	Imari Bay	3,000
Nagasaki Pref.	56	Omura Bay	tr(300)
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	12,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[23-4] Chlorinated tridecanes/sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 54/61 (Missing value : 0)

Detection Frequency (sample) : 54/61 (Missing value : 0)

Detection limit : 200

Quantification limit : 500

	Aggregated value
Geometric mean	1,200
Median	900
Maximum	28,000
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	tr(400)
	2	Tomakomai Port	3,100
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	700
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	tr(300)
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	tr(300)
Fukushima Pref.	8	Onahama Port	4,700
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	600
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	tr(300)
Chiba Pref.	11	Coast of Ichihara and Anegasaki	1,000
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	700
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	5,700
	14	Mouth of Riv. Sumida (Minato Ward)	22,000
Yokohama City	15	Yokohama Port	7,100
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	1,800
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	6,900
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	500
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	tr(300)
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	2,400
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	500
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	900
Nagano Pref.	23	Lake Suwa (center)	1,100
Shizuoka Pref.	24	Shimizu Port	500
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	5,900
Aichi Pref.	26	Kinuura Port	600
	27	Nagoya Port	2,300
Mie Pref.	28	Yokkaichi Port	900
	29	Toba Port	14,000
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	2,700
	31	Lake Biwa (center, offshore of Karasaki)	600
Kyoto Pref.	32	Miyazu Port	tr(300)
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	tr(200)
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	12,000
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	14,000
	36	Mouth of Riv. Yodo (Osaka City)	28,000
	37	Osaka Port	9,500
	38	Outside Osaka Port	3,800
Hyogo Pref.	39	Offshore of Himeji	900
Kobe City	40	Kobe Port (center)	8,600
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	tr(200)
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	600
Okayama Pref.	43	Offshore of Mizushima	5,200
	44	Kure Port	9,000
Hiroshima Pref.	45	Hiroshima Bay	900
	46	Tokuyama Bay	2,700
Yamaguchi Pref.	47	Offshore of Ube	700
	48	Offshore of Hagi	tr(200)
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	17,000
Ehime Pref.	51	Niihama Port	1,000
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	600
Kitakyushu City	53	Dokai Bay	7,900
Fukuoka City	54	Hakata Bay	tr(400)
Saga Pref.	55	Imari Bay	4,800
Nagasaki Pref.	56	Omura Bay	tr(400)
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	20,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[25] Perfluorohexane sulfonic acid (PFHxS) /sediment (pg/g-dry)

Monitored year : 2022

Detection Frequency (site) : 28/61 (Missing value : 0)

Detection Frequency (sample) : 28/61 (Missing value : 0)

Detection limit : 3

Quantification limit : 6

	Aggregated value
Geometric mean	tr(3)
Median	nd
Maximum	16
Minimum	nd

Local communities	No.	Monitored sites	Aggregated value
Hokkaido	1	Ishikarikakokyo Bridge, Mouth of Riv. Ishikari (Ishikari City)	nd
	2	Tomakomai Port	tr(5)
Iwate Pref.	3	Toyosawa-bashi Bridge, Riv. Toyosawa (Hanamaki City)	nd
Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	nd
Sendai City	5	Hirose-ohashi Bridge, Riv. Hirose (Sendai City)	nd
Akita Pref.	6	Lake Hachiro	nd
Yamagata Pref.	7	Mouth of Riv. Mogami (Sakata City)	nd
Fukushima Pref.	8	Onahama Port	nd
Ibaraki Pref.	9	Tonekamome-ohashi Bridge, Mouth of Riv. Tone (Kamisu City)	tr(4)
Tochigi Pref.	10	Tagawa Kyubun Area Head Works (Utsunomiya City)	nd
Chiba Pref.	11	Coast of Ichihara and Anegasaki	10
Chiba City	12	Mouth of Riv. Hanami (Chiba City)	nd
Tokyo Met.	13	Mouth of Riv. Arakawa (Koto Ward)	11
	14	Mouth of Riv. Sumida (Minato Ward)	13
Yokohama City	15	Yokohama Port	tr(5)
Kawasaki City	16	Mouth of Riv. Tama (Kawasaki City)	tr(5)
	17	Front of Ougi Town, Keihin Canal, Port of Kawasaki	8
Niigata Pref.	18	Lower Riv. Shinano (Niigata City)	nd
Toyama Pref.	19	Hagiura-bashi Bridge, Mouth of Riv. Jintsu (Toyama City)	nd
Ishikawa Pref.	20	Mouth of Riv. Sai (Kanazawa City)	nd
Fukui Pref.	21	Mishima-bashi Bridge, Riv. Shono (Tsuruga City)	nd
Yamanashi Pref.	22	Senshu-bashi Bridge, Riv. Arakawa (Kofu City)	nd
Nagano Pref.	23	Lake Suwa (center)	7
Shizuoka Pref.	24	Shimizu Port	nd
	25	Kaketsuka-bashi Bridge, Riv. Tenryu (Iwata City)	nd
Aichi Pref.	26	Kinuura Port	nd
	27	Nagoya Port	nd
Mie Pref.	28	Yokkaichi Port	nd
	29	Toba Port	nd
Shiga Pref.	30	Lake Biwa (center, offshore of Minamihira)	8
	31	Lake Biwa (center, offshore of Karasaki)	7
Kyoto Pref.	32	Miyazu Port	nd
Kyoto City	33	Miyamae-bashi Bridge, Riv. Katsura (Kyoto City)	nd
Osaka Pref.	34	Mouth of Riv. Yamato (Sakai City)	9
Osaka City	35	Kema-bashi Bridge, Riv. Oh-kawa (Osaka City)	tr(5)
	36	Mouth of Riv. Yodo (Osaka City)	nd
	37	Osaka Port	tr(4)
	38	Outside Osaka Port	tr(3)
Hyogo Pref.	39	Offshore of Himeji	tr(5)
Kobe City	40	Kobe Port (center)	tr(4)
Nara Pref.	41	Taisho-bashi Bridge, Riv. Yamato (Oji Town)	7
Wakayama Pref.	42	Kinokawa-ohashi Bridge, Mouth of Riv. Kinokawa (Wakayama City)	nd
Okayama Pref.	43	Offshore of Mizushima	tr(3)
	44	Kure Port	7
Hiroshima Pref.	45	Hiroshima Bay	tr(3)
	46	Tokuyama Bay	tr(5)
	47	Offshore of Ube	nd
	48	Offshore of Hagi	nd
Tokushima Pref.	49	Mouth of Riv. Yoshino (Tokushima City)	nd
Kagawa Pref.	50	Takamatsu Port	tr(3)
Ehime Pref.	51	Niihama Port	nd
Kochi Pref.	52	Mouth of Riv. Shimanto (Shimanto City)	nd
Kitakyushu City	53	Dokai Bay	tr(4)
Fukuoka City	54	Hakata Bay	tr(5)
Saga Pref.	55	Imari Bay	tr(4)
Nagasaki Pref.	56	Omura Bay	16
Oita Pref.	57	Mouth of Riv. Oita (Oita City)	nd
Miyazaki Pref.	58	Mouth of Riv. Oyodo (Miyazaki City)	nd
Kagoshima Pref.	59	Riv. Amori (Kirishima City)	nd
	60	Riv. Gotanda (Ichikikushikino City)	nd
Okinawa Pref.	61	Naha Port	tr(5)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples)

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1] Total Polychlorinated biphenyls (Total PCBs)/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : *5

Quantification limit : *13

	Aggregated value
Geometric mean	9,000
Median	7,300
Maximum	200,000
Minimum	230

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	1,000	9,200	190,000
Median	490	7,100	---
Maximum	10,000	150,000	200,000
Minimum	230	600	190,000

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	490
	Yokohama City	2	Yokohama Port	Blue mussel	10,000
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	230
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	2,800
		2		Chum salmon	1,900
	Iwate Pref.	3	Yamada Bay	Greenling	3,100
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	6,900
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	4,100
	Tokyo Met.	6	Tokyo Bay	Sea bass	39,000
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	45,000
	Nagoya City	8	Nagoya Port	Striped mullet	4,400
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	18,000
	Osaka Pref.	10	Osaka Bay	Sea bass	52,000
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	150,000
	Tottori Pref.	12	Nakaumi	Sea bass	7,300
	Hiroshima City	13	Hiroshima Bay	Sea bass	24,000
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	56,000
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	650
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	20,000
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	6,000
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	600
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	190,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	200,000
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	23,000,000
				Egg of Great Cormorant (Egg white)	21,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) * : Indicates the sum value of the Quantification [Detection] limits of each congeners.

[1-1] Monochlorobiphenyls/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 17/23 (Missing value : 0)

Detection Frequency (sample) : 17/23 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.8

	Aggregated value
Geometric mean	1.1
Median	tr(0.6)
Maximum	20
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	1/3	16/18	0/2
Detection Frequency (sample)	1/3	16/18	0/2
Geometric mean	0.8	1.4	nd
Median	nd	1.5	---
Maximum	20	11	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	20
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(0.3)
		2		Chum salmon	tr(0.5)
	Iwate Pref.	3	Yamada Bay	Greenling	tr(0.5)
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	tr(0.6)
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	2.6
	Tokyo Met.	6	Tokyo Bay	Sea bass	7.9
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	4.6
	Nagoya City	8	Nagoya Port	Striped mullet	4.1
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	tr(0.3)
	Osaka Pref.	10	Osaka Bay	Sea bass	9.7
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	11
	Tottori Pref.	12	Nakaumi	Sea bass	tr(0.6)
	Hiroshima City	13	Hiroshima Bay	Sea bass	1.9
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	10
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	3.0
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	1.1
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	nd
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-2] Dichlorobiphenyls/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 22/23 (Missing value : 0)

Detection Frequency (sample) : 22/23 (Missing value : 0)

Detection limit : 2

Quantification limit : 4

	Aggregated value
Geometric mean	19
Median	15
Maximum	290
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	1/2
Detection Frequency (sample)	3/3	18/18	1/2
Geometric mean	15	26	nd
Median	8	19	---
Maximum	130	290	tr(2)
Minimum	tr(3)	tr(2)	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	8
	Yokohama City	2	Yokohama Port	Blue mussel	130
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(3)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	5
		2		Chum salmon	7
	Iwate Pref.	3	Yamada Bay	Greenling	9
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	15
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	18
	Tokyo Met.	6	Tokyo Bay	Sea bass	240
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	180
	Nagoya City	8	Nagoya Port	Striped mullet	57
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	7
	Osaka Pref.	10	Osaka Bay	Sea bass	220
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	230
	Tottori Pref.	12	Nakaumi	Sea bass	20
	Hiroshima City	13	Hiroshima Bay	Sea bass	32
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	290
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(2)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	25
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	11
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	tr(3)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	tr(2)
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	nd
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-3] Trichlorobiphenyls/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.1

	Aggregated value
Geometric mean	320
Median	230
Maximum	9,900
Minimum	3.1

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	59	310	5,200
Median	22	210	---
Maximum	1,000	5,600	9,900
Minimum	9.4	3.1	2,700

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	22
	Yokohama City	2	Yokohama Port	Blue mussel	1,000
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	9.4
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	91
		2		Chum salmon	150
	Iwate Pref.	3	Yamada Bay	Greenling	89
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	190
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	190
	Tokyo Met.	6	Tokyo Bay	Sea bass	4,700
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	5,500
	Nagoya City	8	Nagoya Port	Striped mullet	350
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	230
	Osaka Pref.	10	Osaka Bay	Sea bass	3,500
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	5,600
	Tottori Pref.	12	Nakaumi	Sea bass	190
	Hiroshima City	13	Hiroshima Bay	Sea bass	440
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	4,100
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	15
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	290
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	68
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	3.1
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	9,900
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	2,700
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,300,000
				Egg of Great Cormorant (Egg white)	1,800

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-4] Tetrachlorobiphenyls/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.6

	Aggregated value
Geometric mean	1,300
Median	1,000
Maximum	30,000
Minimum	27

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	180	1,300	21,000
Median	63	960	---
Maximum	3,300	26,000	30,000
Minimum	28	27	15,000

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	63
	Yokohama City	2	Yokohama Port	Blue mussel	3,300
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	28
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	350
		2		Chum salmon	430
	Iwate Pref.	3	Yamada Bay	Greenling	250
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	920
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	670
	Tokyo Met.	6	Tokyo Bay	Sea bass	14,000
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	16,000
	Nagoya City	8	Nagoya Port	Striped mullet	1,000
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	2,000
	Osaka Pref.	10	Osaka Bay	Sea bass	12,000
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	26,000
	Tottori Pref.	12	Nakaumi	Sea bass	880
	Hiroshima City	13	Hiroshima Bay	Sea bass	2,300
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	10,000
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	63
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	1,500
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	400
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	27
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	30,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	15,000
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	3,600,000
				Egg of Great Cormorant (Egg white)	4,100

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-4-1] 3,3',4,4'-Tetrachlorobiphenyl (#77) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.6

	Aggregated value
Geometric mean	9.0
Median	8.7
Maximum	110
Minimum	tr(0.4)

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	3.1	9.2	36
Median	1.4	7.6	---
Maximum	18	110	44
Minimum	1.2	tr(0.4)	30

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	1.2
	Yokohama City	2	Yokohama Port	Blue mussel	18
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	1.4
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	1.5
		2		Chum salmon	2.4
	Iwate Pref.	3	Yamada Bay	Greenling	4.8
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	4.6
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	6.4
	Tokyo Met.	6	Tokyo Bay	Sea bass	46
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	61
	Nagoya City	8	Nagoya Port	Striped mullet	8.7
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	42
	Osaka Pref.	10	Osaka Bay	Sea bass	56
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	110
	Tottori Pref.	12	Nakaumi	Sea bass	4.2
	Hiroshima City	13	Hiroshima Bay	Sea bass	14
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	63
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	1.2
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	11
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	3.5
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	tr(0.4)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	44
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	30
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	740
				Egg of Great Cormorant (Egg white)	0.8

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[1-4-2] 3,4,4',5-Tetrachlorobiphenyl (#81) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 19/23 (Missing value : 0)

Detection Frequency (sample) : 19/23 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.6

	Aggregated value
Geometric mean	1.7
Median	1.4
Maximum	44
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	1/3	16/18	2/2
Detection Frequency (sample)	1/3	16/18	2/2
Geometric mean	tr(0.3)	1.7	29
Median	nd	1.3	---
Maximum	2.6	23	44
Minimum	nd	nd	19

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	2.6
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(0.4)
		2		Chum salmon	tr(0.5)
	Iwate Pref.	3	Yamada Bay	Greenling	tr(0.5)
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	1.0
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	1.4
	Tokyo Met.	6	Tokyo Bay	Sea bass	9.7
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	11
	Nagoya City	8	Nagoya Port	Striped mullet	1.2
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	8.3
	Osaka Pref.	10	Osaka Bay	Sea bass	12
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	23
	Tottori Pref.	12	Nakaumi	Sea bass	0.9
	Hiroshima City	13	Hiroshima Bay	Sea bass	3.3
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	8.4
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	1.7
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	1.0
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	44
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	19
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,400
				Egg of Great Cormorant (Egg white)	1.7

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-5] Pentachlorobiphenyls/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.0

	Aggregated value
Geometric mean	2,300
Median	2,100
Maximum	63,000
Minimum	54

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	270	2,400	54,000
Median	120	2,000	---
Maximum	3,000	44,000	63,000
Minimum	54	70	47,000

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	120
	Yokohama City	2	Yokohama Port	Blue mussel	3,000
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	54
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	850
		2		Chum salmon	630
	Iwate Pref.	3	Yamada Bay	Greenling	620
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	1,800
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	1,300
	Tokyo Met.	6	Tokyo Bay	Sea bass	11,000
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	14,000
	Nagoya City	8	Nagoya Port	Striped mullet	1,100
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	6,500
	Osaka Pref.	10	Osaka Bay	Sea bass	15,000
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	44,000
	Tottori Pref.	12	Nakaumi	Sea bass	2,100
	Hiroshima City	13	Hiroshima Bay	Sea bass	5,500
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	11,000
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	180
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	3,800
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	1,500
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	70
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	47,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	63,000
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	5,500,000
				Egg of Great Cormorant (Egg white)	5,400

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-5-1] 2,3,3',4'-Pentachlorobiphenyl (#105) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.0

	Aggregated value
Geometric mean	130
Median	120
Maximum	10,000
Minimum	2.9

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	13	120	8,400
Median	5.8	120	---
Maximum	140	1,500	10,000
Minimum	2.9	5.6	7,000

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	5.8
	Yokohama City	2	Yokohama Port	Blue mussel	140
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	2.9
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	66
		2		Chum salmon	25
	Iwate Pref.	3	Yamada Bay	Greenling	43
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	120
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	74
	Tokyo Met.	6	Tokyo Bay	Sea bass	350
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	560
	Nagoya City	8	Nagoya Port	Striped mullet	61
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	450
	Osaka Pref.	10	Osaka Bay	Sea bass	530
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	1,500
	Tottori Pref.	12	Nakaumi	Sea bass	66
	Hiroshima City	13	Hiroshima Bay	Sea bass	220
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	530
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	15
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	140
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	110
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	5.6
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	7,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	10,000
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	520,000
				Egg of Great Cormorant (Egg white)	550

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-5-2] 2,3,4,4',5-Pentachlorobiphenyl (#114) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 21/23 (Missing value : 0)

Detection Frequency (sample) : 21/23 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.0

	Aggregated value
Geometric mean	8.6
Median	7.9
Maximum	1,000
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	1/3	18/18	2/2
Detection Frequency (sample)	1/3	18/18	2/2
Geometric mean	tr(0.6)	8.1	790
Median	nd	7.9	---
Maximum	5.5	150	1,000
Minimum	nd	tr(0.5)	630

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	5.5
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	5.3
		2		Chum salmon	2.6
	Iwate Pref.	3	Yamada Bay	Greenling	2.5
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	7.9
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	7.6
	Tokyo Met.	6	Tokyo Bay	Sea bass	25
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	18
	Nagoya City	8	Nagoya Port	Striped mullet	3.9
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	35
	Osaka Pref.	10	Osaka Bay	Sea bass	34
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	150
	Tottori Pref.	12	Nakaumi	Sea bass	2.6
	Hiroshima City	13	Hiroshima Bay	Sea bass	12
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	31
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	1.0
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	7.9
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	10
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	tr(0.5)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	630
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	1,000
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	53,000
				Egg of Great Cormorant (Egg white)	35

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-5-3] 2,3',4,4',5-Pentachlorobiphenyl (#118) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.0

	Aggregated value
Geometric mean	460
Median	430
Maximum	27,000
Minimum	13

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	48	430	23,000
Median	18	400	---
Maximum	480	7,300	27,000
Minimum	13	17	20,000

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	18
	Yokohama City	2	Yokohama Port	Blue mussel	480
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	13
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	200
		2		Chum salmon	84
	Iwate Pref.	3	Yamada Bay	Greenling	120
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	430
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	240
	Tokyo Met.	6	Tokyo Bay	Sea bass	1,600
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	2,500
	Nagoya City	8	Nagoya Port	Striped mullet	200
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	1,200
	Osaka Pref.	10	Osaka Bay	Sea bass	2,300
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	7,300
	Tottori Pref.	12	Nakaumi	Sea bass	360
	Hiroshima City	13	Hiroshima Bay	Sea bass	820
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	2,000
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	38
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	560
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	350
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	17
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	20,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	27,000
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	2,400,000
				Egg of Great Cormorant (Egg white)	2,400

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-5-4] 2',3,4,4',5-Pentachlorobiphenyl (#123) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 20/23 (Missing value : 0)

Detection Frequency (sample) : 20/23 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.0

	Aggregated value
Geometric mean	8.0
Median	7.4
Maximum	580
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	1/3	17/18	2/2
Detection Frequency (sample)	1/3	17/18	2/2
Geometric mean	tr(0.7)	7.6	480
Median	nd	6.8	---
Maximum	7.4	110	580
Minimum	nd	nd	400

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	7.4
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	2.6
		2		Chum salmon	1.8
	Iwate Pref.	3	Yamada Bay	Greenling	2.3
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	7.7
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	5.1
	Tokyo Met.	6	Tokyo Bay	Sea bass	21
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	32
	Nagoya City	8	Nagoya Port	Striped mullet	4.1
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	28
	Osaka Pref.	10	Osaka Bay	Sea bass	43
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	110
	Tottori Pref.	12	Nakaumi	Sea bass	5.0
	Hiroshima City	13	Hiroshima Bay	Sea bass	16
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	41
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(0.9)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	15
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	5.8
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	400
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	580
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	35,000
				Egg of Great Cormorant (Egg white)	28

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-5-5] 3,3',4,4',5-Pentachlorobiphenyl (#126) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 20/23 (Missing value : 0)

Detection Frequency (sample) : 20/23 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.0

	Aggregated value
Geometric mean	4.0
Median	5.0
Maximum	100
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	1/3	17/18	2/2
Detection Frequency (sample)	1/3	17/18	2/2
Geometric mean	tr(0.5)	4.1	81
Median	nd	5.1	---
Maximum	2.8	35	100
Minimum	nd	nd	65

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	2.8
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	1.8
		2		Chum salmon	tr(0.8)
	Iwate Pref.	3	Yamada Bay	Greenling	1.5
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	3.0
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	5.0
	Tokyo Met.	6	Tokyo Bay	Sea bass	7.6
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	8.1
	Nagoya City	8	Nagoya Port	Striped mullet	2.1
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	19
	Osaka Pref.	10	Osaka Bay	Sea bass	13
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	35
	Tottori Pref.	12	Nakaumi	Sea bass	2.3
	Hiroshima City	13	Hiroshima Bay	Sea bass	8.1
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	14
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(0.8)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	11
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	5.2
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	100
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	65
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	5,800
				Egg of Great Cormorant (Egg white)	3.7

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-6] Hexachlorobiphenyls/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.5

Quantification limit : 1.4

	Aggregated value
Geometric mean	3,100
Median	2,800
Maximum	92,000
Minimum	110

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	370	3,100	83,000
Median	210	3,000	---
Maximum	2,200	51,000	92,000
Minimum	110	210	74,000

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	210
	Yokohama City	2	Yokohama Port	Blue mussel	2,200
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	110
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	1,100
		2		Chum salmon	540
	Iwate Pref.	3	Yamada Bay	Greenling	1,300
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	2,800
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	1,400
	Tokyo Met.	6	Tokyo Bay	Sea bass	7,000
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	7,300
	Nagoya City	8	Nagoya Port	Striped mullet	1,200
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	7,000
	Osaka Pref.	10	Osaka Bay	Sea bass	15,000
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	51,000
	Tottori Pref.	12	Nakaumi	Sea bass	3,100
	Hiroshima City	13	Hiroshima Bay	Sea bass	10,000
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	17,000
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	280
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	8,900
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	2,700
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	210
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	74,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	92,000
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	8,700,000
				Egg of Great Cormorant (Egg white)	7,000

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-6-1] 2,3,3',4,4',5-Hexachlorobiphenyl (#156) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.5

Quantification limit : 1.4

	Aggregated value
Geometric mean	48
Median	40
Maximum	3,900
Minimum	1.5

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	3.8	46	3,200
Median	1.8	50	---
Maximum	20	740	3,900
Minimum	1.5	3.9	2,600

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	1.8
	Yokohama City	2	Yokohama Port	Blue mussel	20
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	1.5
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	21
		2		Chum salmon	4.9
	Iwate Pref.	3	Yamada Bay	Greenling	17
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	40
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	25
	Tokyo Met.	6	Tokyo Bay	Sea bass	110
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	150
	Nagoya City	8	Nagoya Port	Striped mullet	18
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	160
	Osaka Pref.	10	Osaka Bay	Sea bass	220
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	740
	Tottori Pref.	12	Nakaumi	Sea bass	27
	Hiroshima City	13	Hiroshima Bay	Sea bass	92
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	220
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	7.6
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	77
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	59
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	3.9
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	2,600
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	3,900
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	360,000
				Egg of Great Cormorant (Egg white)	240

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-6-2] 2,3,3',4,4',5'-Hexachlorobiphenyl (#157) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.5

Quantification limit : 1.4

	Aggregated value
Geometric mean	14
Median	14
Maximum	960
Minimum	tr(0.6)

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	tr(1.3)	14	790
Median	tr(0.6)	14	---
Maximum	6.3	170	960
Minimum	tr(0.6)	tr(1.3)	650

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(0.6)
	Yokohama City	2	Yokohama Port	Blue mussel	6.3
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(0.6)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	6.8
		2		Chum salmon	1.7
	Iwate Pref.	3	Yamada Bay	Greenling	5.9
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	14
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	7.6
	Tokyo Met.	6	Tokyo Bay	Sea bass	27
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	34
	Nagoya City	8	Nagoya Port	Striped mullet	6.2
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	41
	Osaka Pref.	10	Osaka Bay	Sea bass	60
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	170
	Tottori Pref.	12	Nakaumi	Sea bass	8.9
	Hiroshima City	13	Hiroshima Bay	Sea bass	30
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	55
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	2.4
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	24
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	15
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	tr(1.3)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	650
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	960
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	69,000
				Egg of Great Cormorant (Egg white)	51

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[1-6-3] 2,3',4,4',5,5'-Hexachlorobiphenyl (#167) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.5

Quantification limit : 1.4

	Aggregated value
Geometric mean	30
Median	27
Maximum	1,800
Minimum	tr(1.1)

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	3.2	28	1,600
Median	1.6	28	---
Maximum	19	460	1,800
Minimum	tr(1.1)	2.8	1,400

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	1.6
	Yokohama City	2	Yokohama Port	Blue mussel	19
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(1.1)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	9.1
		2		Chum salmon	3.8
	Iwate Pref.	3	Yamada Bay	Greenling	11
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	27
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	15
	Tokyo Met.	6	Tokyo Bay	Sea bass	64
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	66
	Nagoya City	8	Nagoya Port	Striped mullet	12
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	80
	Osaka Pref.	10	Osaka Bay	Sea bass	130
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	460
	Tottori Pref.	12	Nakaumi	Sea bass	25
	Hiroshima City	13	Hiroshima Bay	Sea bass	55
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	130
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	3.5
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	48
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	29
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	2.8
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	1,400
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	1,800
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	150,000
				Egg of Great Cormorant (Egg white)	120

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[1-6-4] 3,3',4,4',5,5'-Hexachlorobiphenyl (#169) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 16/23 (Missing value : 0)

Detection Frequency (sample) : 16/23 (Missing value : 0)

Detection limit : 0.5

Quantification limit : 1.4

	Aggregated value
Geometric mean	tr(1.3)
Median	tr(1.1)
Maximum	39
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	0/3	14/18	2/2
Detection Frequency (sample)	0/3	14/18	2/2
Geometric mean	nd	tr(1.2)	36
Median	nd	tr(1.2)	---
Maximum	nd	9.6	39
Minimum	nd	nd	33

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(0.8)
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	1.7
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	tr(1.1)
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	tr(1.0)
	Tokyo Met.	6	Tokyo Bay	Sea bass	tr(1.3)
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	nd
	Nagoya City	8	Nagoya Port	Striped mullet	tr(0.6)
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	2.7
	Osaka Pref.	10	Osaka Bay	Sea bass	4.3
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	9.6
	Tottori Pref.	12	Nakaumi	Sea bass	tr(0.7)
	Hiroshima City	13	Hiroshima Bay	Sea bass	2.7
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	8.8
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	2.4
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(1.2)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	33
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	39
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	3,000
				Egg of Great Cormorant (Egg white)	2.0

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-7] Heptachlorobiphenyls/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.7

	Aggregated value
Geometric mean	1,100
Median	1,000
Maximum	27,000
Minimum	27

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	96	1,200	26,000
Median	68	1,000	---
Maximum	480	19,000	27,000
Minimum	27	95	25,000

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	68
	Yokohama City	2	Yokohama Port	Blue mussel	480
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	27
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	340
		2		Chum salmon	130
	Iwate Pref.	3	Yamada Bay	Greenling	680
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	1,000
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	420
	Tokyo Met.	6	Tokyo Bay	Sea bass	1,700
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	1,600
	Nagoya City	8	Nagoya Port	Striped mullet	600
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	1,600
	Osaka Pref.	10	Osaka Bay	Sea bass	5,300
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	19,000
	Tottori Pref.	12	Nakaumi	Sea bass	890
	Hiroshima City	13	Hiroshima Bay	Sea bass	5,100
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	11,000
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	95
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	4,700
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	1,100
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	190
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	25,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	27,000
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	3,300,000
				Egg of Great Cormorant (Egg white)	2,500

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-7-1] 2,2',3,3',4,4',5-Heptachlorobiphenyl (#170) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.7

	Aggregated value
Geometric mean	84
Median	79
Maximum	4,000
Minimum	1.1

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	2.4	100	3,600
Median	1.4	86	---
Maximum	9.0	1,600	4,000
Minimum	1.1	9.5	3,300

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	1.4
	Yokohama City	2	Yokohama Port	Blue mussel	9.0
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	1.1
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	40
		2		Chum salmon	9.5
	Iwate Pref.	3	Yamada Bay	Greenling	65
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	79
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	36
	Tokyo Met.	6	Tokyo Bay	Sea bass	150
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	150
	Nagoya City	8	Nagoya Port	Striped mullet	60
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	210
	Osaka Pref.	10	Osaka Bay	Sea bass	460
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	1,600
	Tottori Pref.	12	Nakaumi	Sea bass	59
	Hiroshima City	13	Hiroshima Bay	Sea bass	340
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	920
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	11
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	290
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	92
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	14
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	4,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	3,300
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	500,000
				Egg of Great Cormorant (Egg white)	380

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-7-2] 2,2',3,4,4',5,5'-Heptachlorobiphenyl (#180) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.7

	Aggregated value
Geometric mean	270
Median	270
Maximum	9,600
Minimum	3.3

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	11	310	9,100
Median	7.7	280	---
Maximum	57	4,900	9,600
Minimum	3.3	28	8,700

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	7.7
	Yokohama City	2	Yokohama Port	Blue mussel	57
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	3.3
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	110
		2		Chum salmon	30
	Iwate Pref.	3	Yamada Bay	Greenling	170
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	280
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	110
	Tokyo Met.	6	Tokyo Bay	Sea bass	490
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	440
	Nagoya City	8	Nagoya Port	Striped mullet	180
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	410
	Osaka Pref.	10	Osaka Bay	Sea bass	1,500
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	4,900
	Tottori Pref.	12	Nakaumi	Sea bass	180
	Hiroshima City	13	Hiroshima Bay	Sea bass	1,200
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	2,800
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	28
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	980
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	270
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	65
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	8,700
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	9,600
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,200,000
				Egg of Great Cormorant (Egg white)	900

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-7-3] 2,3,3',4,4',5,5'-Heptachlorobiphenyl (#189) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 21/23 (Missing value : 0)

Detection Frequency (sample) : 21/23 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.7

	Aggregated value
Geometric mean	4.9
Median	4.7
Maximum	240
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	2/3	17/18	2/2
Detection Frequency (sample)	2/3	17/18	2/2
Geometric mean	tr(0.4)	4.8	220
Median	tr(0.3)	5.3	---
Maximum	1.8	64	240
Minimum	nd	nd	210

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	1.8
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(0.3)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	2.5
		2		Chum salmon	tr(0.4)
	Iwate Pref.	3	Yamada Bay	Greenling	3.1
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	4.7
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	3.1
	Tokyo Met.	6	Tokyo Bay	Sea bass	7.6
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	8.5
	Nagoya City	8	Nagoya Port	Striped mullet	2.6
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	12
	Osaka Pref.	10	Osaka Bay	Sea bass	22
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	64
	Tottori Pref.	12	Nakaumi	Sea bass	3.3
	Hiroshima City	13	Hiroshima Bay	Sea bass	15
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	34
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	16
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	5.9
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	0.7
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	240
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	210
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	27,000
				Egg of Great Cormorant (Egg white)	17

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1-8] Octachlorobiphenyls/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.5

	Aggregated value
Geometric mean	140
Median	150
Maximum	4,100
Minimum	1.3

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	4.6	180	3,700
Median	3.6	160	---
Maximum	21	2,300	4,100
Minimum	1.3	13	3,300

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	3.6
	Yokohama City	2	Yokohama Port	Blue mussel	21
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	1.3
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	58
		2		Chum salmon	13
	Iwate Pref.	3	Yamada Bay	Greenling	120
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	150
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	53
	Tokyo Met.	6	Tokyo Bay	Sea bass	200
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	170
	Nagoya City	8	Nagoya Port	Striped mullet	120
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	190
	Osaka Pref.	10	Osaka Bay	Sea bass	720
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	2,300
	Tottori Pref.	12	Nakaumi	Sea bass	120
	Hiroshima City	13	Hiroshima Bay	Sea bass	790
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	2,300
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	15
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	690
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	170
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	80
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	4,100
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	3,300
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	510,000
				Egg of Great Cormorant (Egg white)	320

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[1-9] Nonachlorobiphenyls/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 20/23 (Missing value : 0)

Detection Frequency (sample) : 20/23 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.7

	Aggregated value
Geometric mean	11
Median	16
Maximum	500
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	0/3	18/18	2/2
Detection Frequency (sample)	0/3	18/18	2/2
Geometric mean	nd	16	420
Median	nd	16	---
Maximum	nd	140	500
Minimum	nd	1.3	360

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	8.2
		2		Chum salmon	1.3
	Iwate Pref.	3	Yamada Bay	Greenling	10
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	19
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	10
	Tokyo Met.	6	Tokyo Bay	Sea bass	22
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	2.9
	Nagoya City	8	Nagoya Port	Striped mullet	12
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	34
	Osaka Pref.	10	Osaka Bay	Sea bass	46
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	140
	Tottori Pref.	12	Nakaumi	Sea bass	8.1
	Hiroshima City	13	Hiroshima Bay	Sea bass	38
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	140
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	2.2
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	35
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	17
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	16
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	500
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	360
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	29,000
				Egg of Great Cormorant (Egg white)	8.7

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

[1-10] Decachlorobiphenyl/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 19/23 (Missing value : 0)

Detection Frequency (sample) : 19/23 (Missing value : 0)

Detection limit : 0.7

Quantification limit : 1.7

	Aggregated value
Geometric mean	5.4
Median	7.6
Maximum	190
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	0/3	17/18	2/2
Detection Frequency (sample)	0/3	17/18	2/2
Geometric mean	nd	5.9	160
Median	nd	7.8	---
Maximum	nd	31	190
Minimum	nd	nd	140

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	5.2
		2		Chum salmon	tr(1.1)
	Iwate Pref.	3	Yamada Bay	Greenling	3.1
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	14
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	7.6
	Tokyo Met.	6	Tokyo Bay	Sea bass	17
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	nd
	Nagoya City	8	Nagoya Port	Striped mullet	4.2
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	14
	Osaka Pref.	10	Osaka Bay	Sea bass	9.6
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	28
	Tottori Pref.	12	Nakaumi	Sea bass	4.3
	Hiroshima City	13	Hiroshima Bay	Sea bass	11
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	31
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(1.2)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	14
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	8.1
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	2.0
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	140
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	190
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	13,000
				Egg of Great Cormorant (Egg white)	5.2

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[2] HCB (Hexachlorobenzene) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.8

Quantification limit : 2.1

	Aggregated value
Geometric mean	99
Median	76
Maximum	2,300
Minimum	7.6

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	8.4	110	2,000
Median	8.5	88	---
Maximum	9.1	710	2,300
Minimum	7.6	16	1,800

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	9.1
	Yokohama City	2	Yokohama Port	Blue mussel	7.6
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	8.5
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	410
		2		Chum salmon	610
	Iwate Pref.	3	Yamada Bay	Greenling	130
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	49
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	710
	Tokyo Met.	6	Tokyo Bay	Sea bass	100
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	130
	Nagoya City	8	Nagoya Port	Striped mullet	54
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	370
	Osaka Pref.	10	Osaka Bay	Sea bass	63
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	130
	Tottori Pref.	12	Nakaumi	Sea bass	27
	Hiroshima City	13	Hiroshima Bay	Sea bass	46
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	310
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	38
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	76
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	75
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	16
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	1,800
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	2,300
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	34,000
				Egg of Great Cormorant (Egg white)	87

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[11-1] α -HCH /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 22/23 (Missing value : 0)

Detection Frequency (sample) : 22/23 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.1

	Aggregated value
Geometric mean	9.8
Median	10
Maximum	82
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	17/18	2/2
Detection Frequency (sample)	3/3	17/18	2/2
Geometric mean	7.4	8.7	47
Median	10	6.8	---
Maximum	16	82	63
Minimum	2.5	nd	35

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	2.5
	Yokohama City	2	Yokohama Port	Blue mussel	16
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	10
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	82
		2		Chum salmon	54
	Iwate Pref.	3	Yamada Bay	Greenling	23
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	4.4
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	59
	Tokyo Met.	6	Tokyo Bay	Sea bass	27
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	14
	Nagoya City	8	Nagoya Port	Striped mullet	36
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	5.6
	Osaka Pref.	10	Osaka Bay	Sea bass	7.9
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	5.5
	Tottori Pref.	12	Nakaumi	Sea bass	3.2
	Hiroshima City	13	Hiroshima Bay	Sea bass	3.6
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	25
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(0.7)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	4.0
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	5.4
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	63
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	35
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	940
				Egg of Great Cormorant (Egg white)	4.9

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[11-2] β -HCH /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.0

	Aggregated value
Geometric mean	41
Median	35
Maximum	1,300
Minimum	2.2

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	18	32	1,100
Median	17	38	---
Maximum	35	230	1,300
Minimum	10	2.2	970

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	10
	Yokohama City	2	Yokohama Port	Blue mussel	35
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	17
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	100
		2		Chum salmon	94
	Iwate Pref.	3	Yamada Bay	Greenling	65
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	14
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	230
	Tokyo Met.	6	Tokyo Bay	Sea bass	34
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	28
	Nagoya City	8	Nagoya Port	Striped mullet	67
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	57
	Osaka Pref.	10	Osaka Bay	Sea bass	43
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	49
	Tottori Pref.	12	Nakaumi	Sea bass	10
	Hiroshima City	13	Hiroshima Bay	Sea bass	14
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	120
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	2.2
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	23
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	19
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	5.5
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	970
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	1,300
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	38,000
				Egg of Great Cormorant (Egg white)	330

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[11-3] γ -HCH (synonym: Lindane) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 22/23 (Missing value : 0)

Detection Frequency (sample) : 22/23 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.1

	Aggregated value
Geometric mean	3.1
Median	3.3
Maximum	24
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	17/18	2/2
Detection Frequency (sample)	3/3	17/18	2/2
Geometric mean	3.5	3.0	3.4
Median	5.1	2.8	---
Maximum	8.4	24	6.6
Minimum	tr(1.0)	nd	1.8

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(1.0)
	Yokohama City	2	Yokohama Port	Blue mussel	8.4
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	5.1
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	24
		2		Chum salmon	18
	Iwate Pref.	3	Yamada Bay	Greenling	7.8
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	1.6
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	17
	Tokyo Met.	6	Tokyo Bay	Sea bass	7.3
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	5.8
	Nagoya City	8	Nagoya Port	Striped mullet	8.7
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	1.9
	Osaka Pref.	10	Osaka Bay	Sea bass	3.3
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	2.2
	Tottori Pref.	12	Nakaumi	Sea bass	1.2
	Hiroshima City	13	Hiroshima Bay	Sea bass	1.4
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	7.7
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(0.4)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	1.3
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(0.8)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	6.6
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	1.8
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	240
				Egg of Great Cormorant (Egg white)	tr(0.9)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[11-4] δ -HCH /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 17/23 (Missing value : 0)

Detection Frequency (sample) : 17/23 (Missing value : 0)

Detection limit : 0.4

Quantification limit : 1.0

	Aggregated value
Geometric mean	1.0
Median	1.2
Maximum	5.5
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	2/3	13/18	2/2
Detection Frequency (sample)	2/3	13/18	2/2
Geometric mean	tr(0.7)	1.0	1.6
Median	tr(0.6)	1.2	---
Maximum	3.0	5.5	2.1
Minimum	nd	nd	1.2

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	3.0
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(0.6)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	1.7
		2		Chum salmon	1.8
	Iwate Pref.	3	Yamada Bay	Greenling	tr(0.7)
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	tr(0.5)
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	1.9
	Tokyo Met.	6	Tokyo Bay	Sea bass	5.1
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	2.4
	Nagoya City	8	Nagoya Port	Striped mullet	5.5
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	3.7
	Osaka Pref.	10	Osaka Bay	Sea bass	1.0
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	1.3
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	2.3
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(0.9)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	1.2
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	2.1
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	100
				Egg of Great Cormorant (Egg white)	1.4

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14] Polybromodiphenyl ethers(Br4~Br10) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 18/23 (Missing value : 0)

Detection Frequency (sample) : 18/23 (Missing value : 0)

Detection limit : *23

Quantification limit : *57

	Aggregated value
Geometric mean	86
Median	110
Maximum	1,300
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	1/3	15/18	2/2
Detection Frequency (sample)	1/3	15/18	2/2
Geometric mean	tr(26)	79	1,000
Median	nd	100	---
Maximum	140	430	1,300
Minimum	nd	nd	820

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	140
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(49)
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	tr(35)
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	71
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	160
	Tokyo Met.	6	Tokyo Bay	Sea bass	97
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	160
	Nagoya City	8	Nagoya Port	Striped mullet	tr(51)
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	360
	Osaka Pref.	10	Osaka Bay	Sea bass	200
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	430
	Tottori Pref.	12	Nakaumi	Sea bass	tr(39)
	Hiroshima City	13	Hiroshima Bay	Sea bass	140
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	160
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	220
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	110
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	820
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	1,300
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	49,000
				Egg of Great Cormorant (Egg white)	tr(33)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

(Note 5) * : Indicates the sum value of the Quantification [Detection] limits of each congeners.

[14-1] Tetrabromodiphenyl ethers /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 5

Quantification limit : 13

	Aggregated value
Geometric mean	40
Median	44
Maximum	250
Minimum	tr(6)

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	16	38	210
Median	tr(7)	44	---
Maximum	94	230	250
Minimum	tr(6)	tr(6)	180

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(6)
	Yokohama City	2	Yokohama Port	Blue mussel	94
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(7)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(12)
		2		Chum salmon	tr(10)
	Iwate Pref.	3	Yamada Bay	Greenling	18
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	43
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	63
	Tokyo Met.	6	Tokyo Bay	Sea bass	42
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	110
	Nagoya City	8	Nagoya Port	Striped mullet	24
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	170
	Osaka Pref.	10	Osaka Bay	Sea bass	93
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	230
	Tottori Pref.	12	Nakaumi	Sea bass	17
	Hiroshima City	13	Hiroshima Bay	Sea bass	64
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	65
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(6)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	56
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	44
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	13
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	180
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	250
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	16,000
				Egg of Great Cormorant (Egg white)	19

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

[14-1-1] 2,2',4,4'-Tetrabromodiphenyl ether (#47) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 20/23 (Missing value : 0)

Detection Frequency (sample) : 20/23 (Missing value : 0)

Detection limit : 8

Quantification limit : 24

	Aggregated value
Geometric mean	32
Median	34
Maximum	210
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	1/3	17/18	2/2
Detection Frequency (sample)	1/3	17/18	2/2
Geometric mean	tr(10)	32	170
Median	nd	34	---
Maximum	64	170	210
Minimum	nd	nd	130

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	64
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(12)
		2		Chum salmon	tr(10)
	Iwate Pref.	3	Yamada Bay	Greenling	tr(18)
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	43
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	39
	Tokyo Met.	6	Tokyo Bay	Sea bass	34
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	86
	Nagoya City	8	Nagoya Port	Striped mullet	24
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	130
	Osaka Pref.	10	Osaka Bay	Sea bass	69
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	170
	Tottori Pref.	12	Nakaumi	Sea bass	tr(17)
	Hiroshima City	13	Hiroshima Bay	Sea bass	52
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	65
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	34
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	27
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	tr(13)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	130
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	210
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	16,000
				Egg of Great Cormorant (Egg white)	tr(19)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-2] Pentabromodiphenyl ethers /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 21/23 (Missing value : 0)

Detection Frequency (sample) : 21/23 (Missing value : 0)

Detection limit : 2

Quantification limit : 4

	Aggregated value
Geometric mean	16
Median	21
Maximum	260
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	2/3	17/18	2/2
Detection Frequency (sample)	2/3	17/18	2/2
Geometric mean	4	15	230
Median	tr(2)	20	---
Maximum	26	82	260
Minimum	nd	nd	200

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	26
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(2)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	16
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	7
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	9
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	44
	Tokyo Met.	6	Tokyo Bay	Sea bass	21
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	27
	Nagoya City	8	Nagoya Port	Striped mullet	9
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	82
	Osaka Pref.	10	Osaka Bay	Sea bass	35
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	78
	Tottori Pref.	12	Nakaumi	Sea bass	11
	Hiroshima City	13	Hiroshima Bay	Sea bass	19
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	25
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(3)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	44
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	32
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	tr(2)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	200
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	260
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	8,800
				Egg of Great Cormorant (Egg white)	5

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-2-1] 2,2',4,4',5-Pentabromodiphenyl ether (#99) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 15/23 (Missing value : 0)

Detection Frequency (sample) : 15/23 (Missing value : 0)

Detection limit : 2

Quantification limit : 4

	Aggregated value
Geometric mean	tr(3)
Median	tr(2)
Maximum	22
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	2/3	11/18	2/2
Detection Frequency (sample)	2/3	11/18	2/2
Geometric mean	tr(3)	tr(2)	15
Median	tr(2)	tr(2)	---
Maximum	17	8	22
Minimum	nd	nd	10

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	17
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(2)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(2)
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	tr(3)
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	4
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	7
	Tokyo Met.	6	Tokyo Bay	Sea bass	tr(3)
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	8
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	6
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	7
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	tr(2)
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	5
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(2)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	10
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	22
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,700
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-3] Hexabromodiphenyl ethers /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 20/23 (Missing value : 0)

Detection Frequency (sample) : 20/23 (Missing value : 0)

Detection limit : 2

Quantification limit : 5

	Aggregated value
Geometric mean	18
Median	21
Maximum	480
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	1/3	17/18	2/2
Detection Frequency (sample)	1/3	17/18	2/2
Geometric mean	tr(2)	20	340
Median	nd	24	---
Maximum	5	96	480
Minimum	nd	nd	240

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	5
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	21
		2		Chum salmon	tr(2)
	Iwate Pref.	3	Yamada Bay	Greenling	10
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	18
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	47
	Tokyo Met.	6	Tokyo Bay	Sea bass	28
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	21
	Nagoya City	8	Nagoya Port	Striped mullet	12
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	96
	Osaka Pref.	10	Osaka Bay	Sea bass	45
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	91
	Tottori Pref.	12	Nakaumi	Sea bass	9
	Hiroshima City	13	Hiroshima Bay	Sea bass	42
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	56
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(3)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	89
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	31
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	240
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	480
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	14,000
				Egg of Great Cormorant (Egg white)	7

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-3-1] 2,2',4,4',5,5'-Hexabromodiphenyl ether (#153) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 12/23 (Missing value : 0)

Detection Frequency (sample) : 12/23 (Missing value : 0)

Detection limit : 2

Quantification limit : 5

	Aggregated value
Geometric mean	tr(3)
Median	tr(2)
Maximum	91
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	0/3	10/18	2/2
Detection Frequency (sample)	0/3	10/18	2/2
Geometric mean	nd	tr(2)	86
Median	nd	tr(2)	---
Maximum	nd	14	91
Minimum	nd	nd	81

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(2)
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	tr(2)
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	tr(4)
	Tokyo Met.	6	Tokyo Bay	Sea bass	tr(4)
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	tr(3)
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	14
	Osaka Pref.	10	Osaka Bay	Sea bass	7
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	8
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	tr(4)
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	5
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	81
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	91
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	6,500
				Egg of Great Cormorant (Egg white)	tr(2)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-3-2] 2,2',4,4',5,6'-Hexabromodiphenyl ether (#154) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 20/23 (Missing value : 0)

Detection Frequency (sample) : 20/23 (Missing value : 0)

Detection limit : 2

Quantification limit : 5

	Aggregated value
Geometric mean	9
Median	10
Maximum	140
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	1/3	17/18	2/2
Detection Frequency (sample)	1/3	17/18	2/2
Geometric mean	nd	9	140
Median	nd	10	---
Maximum	tr(2)	50	140
Minimum	nd	nd	140

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(2)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	8
		2		Chum salmon	tr(2)
	Iwate Pref.	3	Yamada Bay	Greenling	tr(4)
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	7
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	24
	Tokyo Met.	6	Tokyo Bay	Sea bass	11
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	10
	Nagoya City	8	Nagoya Port	Striped mullet	tr(3)
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	50
	Osaka Pref.	10	Osaka Bay	Sea bass	14
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	40
	Tottori Pref.	12	Nakaumi	Sea bass	5
	Hiroshima City	13	Hiroshima Bay	Sea bass	13
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	12
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(3)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	26
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	18
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	140
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	140
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	3,300
				Egg of Great Cormorant (Egg white)	tr(2)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-4] Heptabromodiphenyl ethers /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 6/23 (Missing value : 0)

Detection Frequency (sample) : 6/23 (Missing value : 0)

Detection limit : 4

Quantification limit : 10

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	96
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	0/3	4/18	2/2
Detection Frequency (sample)	0/3	4/18	2/2
Geometric mean	nd	nd	69
Median	nd	nd	---
Maximum	nd	tr(8)	96
Minimum	nd	nd	49

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	nd
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	tr(8)
	Osaka Pref.	10	Osaka Bay	Sea bass	tr(4)
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	tr(5)
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	tr(5)
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	49
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	96
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	2,500
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-4-1] 2,2',3,3',4,5',6-Heptabromodiphenyl ether (#175) /wildlife (pg/g-wet) and

[14-4-2] 2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 1/23 (Missing value : 0)

Detection Frequency (sample) : 1/23 (Missing value : 0)

Detection limit : 4

Quantification limit : 10

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	13
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	0/3	0/18	1/2
Detection Frequency (sample)	0/3	0/18	1/2
Geometric mean	nd	nd	tr(5)
Median	nd	nd	---
Maximum	nd	nd	13
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	nd
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	nd
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	13
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	530
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-5] Octabromodiphenyl ethers /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 16/23 (Missing value : 0)

Detection Frequency (sample) : 16/23 (Missing value : 0)

Detection limit : 1

Quantification limit : 2

	Aggregated value
Geometric mean	4
Median	3
Maximum	180
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	1/3	13/18	2/2
Detection Frequency (sample)	1/3	13/18	2/2
Geometric mean	nd	3	160
Median	nd	4	---
Maximum	tr(1)	29	180
Minimum	nd	nd	150

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	tr(1)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	tr(1)
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	3
	Tokyo Met.	6	Tokyo Bay	Sea bass	6
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	5
	Nagoya City	8	Nagoya Port	Striped mullet	6
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	5
	Osaka Pref.	10	Osaka Bay	Sea bass	21
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	29
	Tottori Pref.	12	Nakaumi	Sea bass	2
	Hiroshima City	13	Hiroshima Bay	Sea bass	15
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	12
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	29
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	3
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	150
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	180
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	7,000
				Egg of Great Cormorant (Egg white)	2

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-6] Nonabromodiphenyl ethers /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 1/23 (Missing value : 0)

Detection Frequency (sample) : 1/23 (Missing value : 0)

Detection limit : 4

Quantification limit : 10

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	10
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	0/3	0/18	1/2
Detection Frequency (sample)	0/3	0/18	1/2
Geometric mean	nd	nd	tr(4)
Median	nd	nd	---
Maximum	nd	nd	10
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	nd
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	nd
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	10
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	140
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[14-7] デカブロモジフェニルエーテル /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 3/23 (Missing value : 0)

Detection Frequency (sample) : 3/23 (Missing value : 0)

Detection limit : 5

Quantification limit : 13

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	15
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	1/3	1/18	1/2
Detection Frequency (sample)	1/3	1/18	1/2
Geometric mean	tr(5)	nd	tr(5)
Median	nd	nd	---
Maximum	15	tr(7)	tr(9)
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	15
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	tr(7)
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	nd
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	nd
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	tr(9)
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	150
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[15] Perfluorooctane sulfonic acid (PFOS) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 3

Quantification limit : 6

	Aggregated value
Geometric mean	310
Median	290
Maximum	100,000
Minimum	9

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	27	280	23,000
Median	13	360	---
Maximum	160	7,200	100,000
Minimum	9	9	5,200

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	13
	Yokohama City	2	Yokohama Port	Blue mussel	160
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	9
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	58
		2		Chum salmon	9
	Iwate Pref.	3	Yamada Bay	Greenling	22
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	48
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	2,100
	Tokyo Met.	6	Tokyo Bay	Sea bass	1,100
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	1,200
	Nagoya City	8	Nagoya Port	Striped mullet	150
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	7,200
	Osaka Pref.	10	Osaka Bay	Sea bass	740
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	480
	Tottori Pref.	12	Nakaumi	Sea bass	560
	Hiroshima City	13	Hiroshima Bay	Sea bass	240
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	290
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	420
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	1,400
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	230
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	46
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	100,000
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	5,200
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	270,000
				Egg of Great Cormorant (Egg white)	1,800

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[16] Perfluorooctanoic acid (PFOA) /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 22/23 (Missing value : 0)

Detection Frequency (sample) : 22/23 (Missing value : 0)

Detection limit : 3

Quantification limit : 8

	Aggregated value
Geometric mean	17
Median	13
Maximum	2,600
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	17/18	2/2
Detection Frequency (sample)	3/3	17/18	2/2
Geometric mean	16	11	1,100
Median	22	13	---
Maximum	35	47	2,600
Minimum	tr(5)	nd	470

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(5)
	Yokohama City	2	Yokohama Port	Blue mussel	22
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	35
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	15
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	38
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	47
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	18
	Tokyo Met.	6	Tokyo Bay	Sea bass	13
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	17
	Nagoya City	8	Nagoya Port	Striped mullet	tr(4)
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	15
	Osaka Pref.	10	Osaka Bay	Sea bass	13
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	9
	Tottori Pref.	12	Nakaumi	Sea bass	tr(5)
	Hiroshima City	13	Hiroshima Bay	Sea bass	tr(5)
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	26
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	13
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	10
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	9
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	9
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	2,600
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	470
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	4,800
				Egg of Great Cormorant (Egg white)	39

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[17] Pentachlorobenzene/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 23/23 (Missing value : 0)

Detection Frequency (sample) : 23/23 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.6

	Aggregated value
Geometric mean	19
Median	20
Maximum	330
Minimum	1.9

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	18/18	2/2
Detection Frequency (sample)	3/3	18/18	2/2
Geometric mean	4.4	18	290
Median	4.7	21	---
Maximum	9.8	78	330
Minimum	1.9	3.6	260

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	1.9
	Yokohama City	2	Yokohama Port	Blue mussel	9.8
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	4.7
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	34
		2		Chum salmon	46
	Iwate Pref.	3	Yamada Bay	Greenling	22
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	5.9
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	78
	Tokyo Met.	6	Tokyo Bay	Sea bass	50
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	39
	Nagoya City	8	Nagoya Port	Striped mullet	24
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	39
	Osaka Pref.	10	Osaka Bay	Sea bass	13
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	20
	Tottori Pref.	12	Nakaumi	Sea bass	7.1
	Hiroshima City	13	Hiroshima Bay	Sea bass	9.7
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	66
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	3.6
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	13
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	8.8
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	3.6
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	260
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	330
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	6,800
				Egg of Great Cormorant (Egg white)	21

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

[19] 1,2,5,6,9,10-Hexabromocyclododecanes /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 13/23 (Missing value : 0)

Detection Frequency (sample) : 13/23 (Missing value : 0)

Detection limit : *100

Quantification limit : *210

	Aggregated value
Geometric mean	tr(120)
Median	tr(110)
Maximum	750
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	2/3	9/18	2/2
Detection Frequency (sample)	2/3	9/18	2/2
Geometric mean	tr(140)	tr(100)	590
Median	tr(190)	nd	---
Maximum	270	480	750
Minimum	nd	nd	460

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	tr(190)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	270
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	tr(200)
	Tokyo Met.	6	Tokyo Bay	Sea bass	320
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	tr(170)
	Nagoya City	8	Nagoya Port	Striped mullet	tr(110)
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	450
	Osaka Pref.	10	Osaka Bay	Sea bass	tr(180)
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	480
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	tr(110)
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	tr(170)
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	460
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	750
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	22,000
				Egg of Great Cormorant (Egg white)	tr(110)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

(Note 5) * : Indicates the sum value of the Quantification [Detection] limits of each target chemicals.

[19-1] α -1,2,5,6,9,10-Hexabromocyclododecane /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 19/23 (Missing value : 0)

Detection Frequency (sample) : 19/23 (Missing value : 0)

Detection limit : 20

Quantification limit : 40

	Aggregated value
Geometric mean	90
Median	90
Maximum	750
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	3/3	14/18	2/2
Detection Frequency (sample)	3/3	14/18	2/2
Geometric mean	150	70	590
Median	160	80	---
Maximum	250	450	750
Minimum	80	nd	460

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	80
	Yokohama City	2	Yokohama Port	Blue mussel	160
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	250
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	80
		2		Chum salmon	40
	Iwate Pref.	3	Yamada Bay	Greenling	40
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	200
	Tokyo Met.	6	Tokyo Bay	Sea bass	300
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	150
	Nagoya City	8	Nagoya Port	Striped mullet	80
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	430
	Osaka Pref.	10	Osaka Bay	Sea bass	150
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	450
	Tottori Pref.	12	Nakaumi	Sea bass	tr(30)
	Hiroshima City	13	Hiroshima Bay	Sea bass	90
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	150
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	60
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	460
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	750
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	22,000
				Egg of Great Cormorant (Egg white)	110

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[19-2] β -1,2,5,6,9,10-Hexabromocyclododecane /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 0/23 (Missing value : 0)

Detection Frequency (sample) : 0/23 (Missing value : 0)

Detection limit : 20

Quantification limit : 40

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	0/3	0/18	0/2
Detection Frequency (sample)	0/3	0/18	0/2
Geometric mean	nd	nd	nd
Median	nd	nd	---
Maximum	nd	nd	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	nd
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	nd
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	nd
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

[19-3] γ -1,2,5,6,9,10-Hexabromocyclododecane /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 10/23 (Missing value : 0)

Detection Frequency (sample) : 10/23 (Missing value : 0)

Detection limit : 20

Quantification limit : 40

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(30)
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	2/3	8/18	0/2
Detection Frequency (sample)	2/3	8/18	0/2
Geometric mean	tr(20)	nd	nd
Median	tr(20)	nd	---
Maximum	tr(30)	tr(30)	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	tr(30)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	tr(20)
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	tr(20)
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	tr(20)
	Nagoya City	8	Nagoya Port	Striped mullet	tr(30)
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	tr(20)
	Osaka Pref.	10	Osaka Bay	Sea bass	tr(30)
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	tr(30)
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	tr(20)
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	tr(20)
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	50
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[19-4] δ -1,2,5,6,9,10-Hexabromocyclododecane /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 0/23 (Missing value : 0)

Detection Frequency (sample) : 0/23 (Missing value : 0)

Detection limit : 20

Quantification limit : 50

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	0/3	0/18	0/2
Detection Frequency (sample)	0/3	0/18	0/2
Geometric mean	nd	nd	nd
Median	nd	nd	---
Maximum	nd	nd	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	nd
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	nd
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	nd
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

[19-5] ε -1,2,5,6,9,10-Hexabromocyclododecane /wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 0/23 (Missing value : 0)

Detection Frequency (sample) : 0/23 (Missing value : 0)

Detection limit : 20

Quantification limit : 40

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	0/3	0/18	0/2
Detection Frequency (sample)	0/3	0/18	0/2
Geometric mean	nd	nd	nd
Median	nd	nd	---
Maximum	nd	nd	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	nd
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	nd
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	nd
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) nd : Not detected

[21] Hexachlorobuta-1,3-diene/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 9/23 (Missing value : 0)

Detection Frequency (sample) : 9/23 (Missing value : 0)

Detection limit : 4

Quantification limit : 10

	Aggregated value
Geometric mean	tr(4)
Median	nd
Maximum	290
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	0/3	9/18	0/2
Detection Frequency (sample)	0/3	9/18	0/2
Geometric mean	nd	tr(6)	nd
Median	nd	tr(4)	---
Maximum	nd	290	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	25
		2		Chum salmon	29
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	tr(8)
	Tokyo Met.	6	Tokyo Bay	Sea bass	13
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	tr(6)
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	tr(6)
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	tr(6)
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	290
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	10
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	nd
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	55
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[23] Short-chain chlorinated paraffins/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 6/23 (Missing value : 0)

Detection Frequency (sample) : 6/23 (Missing value : 0)

Detection limit : *1,200

Quantification limit : *3,300

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(2,700)
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	1/3	4/18	1/2
Detection Frequency (sample)	1/3	4/18	1/2
Geometric mean	nd	nd	nd
Median	nd	nd	---
Maximum	tr(2,700)	tr(2,600)	tr(1,600)
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	tr(2,700)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	tr(2,600)
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	tr(1,500)
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(1,300)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(1,600)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	tr(1,600)
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	8,600
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

(Note 5) * : Indicates the sum value of the Quantification [Detection] limits of each substance with the same number of carbons in the alkyl group.

[23-1] Chlorinated decanes/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 8/23 (Missing value : 0)

Detection Frequency (sample) : 8/23 (Missing value : 0)

Detection limit : 200

Quantification limit : 600

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(400)
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	1/3	6/18	1/2
Detection Frequency (sample)	1/3	6/18	1/2
Geometric mean	nd	nd	nd
Median	nd	nd	---
Maximum	tr(300)	tr(400)	tr(200)
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	tr(300)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	tr(400)
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	tr(200)
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	tr(200)
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	tr(200)
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(200)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	tr(200)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv. Tenjin (Kurayoshi City)	Great Cormorant	tr(200)
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,200
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[23-2] Chlorinated undecanes/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 8/23 (Missing value : 0)

Detection Frequency (sample) : 8/23 (Missing value : 0)

Detection limit : 300

Quantification limit : 900

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(700)
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	1/3	7/18	0/2
Detection Frequency (sample)	1/3	7/18	0/2
Geometric mean	nd	nd	nd
Median	nd	nd	---
Maximum	tr(500)	tr(700)	nd
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	tr(500)
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	tr(400)
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	tr(700)
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	tr(300)
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	nd
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	tr(300)
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(300)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	nd
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(400)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	tr(400)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv.Tenjin (Kurayoshi City)	Great Cormorant	nd
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	1,900
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[23-3] Chlorinated dodecanes/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 16/23 (Missing value : 0)

Detection Frequency (sample) : 16/23 (Missing value : 0)

Detection limit : 300

Quantification limit : 900

	Aggregated value
Geometric mean	tr(300)
Median	tr(400)
Maximum	900
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	2/3	13/18	1/2
Detection Frequency (sample)	2/3	13/18	1/2
Geometric mean	tr(300)	tr(300)	tr(300)
Median	tr(300)	tr(400)	---
Maximum	900	tr(800)	tr(500)
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(300)
	Yokohama City	2	Yokohama Port	Blue mussel	900
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	tr(400)
		2		Chum salmon	tr(400)
	Iwate Pref.	3	Yamada Bay	Greenling	nd
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	tr(400)
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	tr(800)
	Nagoya City	8	Nagoya Port	Striped mullet	tr(300)
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	tr(500)
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	tr(400)
	Hiroshima City	13	Hiroshima Bay	Sea bass	tr(500)
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	tr(400)
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(500)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	tr(300)
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(500)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	tr(400)
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv. Tenjin (Kurayoshi City)	Great Cormorant	tr(500)
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	2,500
				Egg of Great Cormorant (Egg white)	tr(400)

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[23-4] Chlorinated tridecanes/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 10/23 (Missing value : 0)

Detection Frequency (sample) : 10/23 (Missing value : 0)

Detection limit : 400

Quantification limit : 900

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	1,000
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	2/3	7/18	1/2
Detection Frequency (sample)	2/3	7/18	1/2
Geometric mean	tr(500)	nd	tr(400)
Median	tr(500)	nd	---
Maximum	1,000	tr(700)	900
Minimum	nd	nd	nd

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	tr(500)
	Yokohama City	2	Yokohama Port	Blue mussel	1,000
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	tr(500)
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	nd
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	nd
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	tr(700)
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	tr(500)
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	nd
	Tottori Pref.	12	Nakaumi	Sea bass	tr(400)
	Hiroshima City	13	Hiroshima Bay	Sea bass	nd
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	tr(500)
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	tr(400)
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	tr(500)
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	nd
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	nd
	Tottori Pref.	2	Riv. Tenjin (Kurayoshi City)	Great Cormorant	900
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	3,000
				Egg of Great Cormorant (Egg white)	nd

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[25] Perfluorohexane sulfonic acid (PFHxS)/wildlife (pg/g-wet)

Monitored year : 2022

Detection Frequency (site) : 12/23 (Missing value : 0)

Detection Frequency (sample) : 12/23 (Missing value : 0)

Detection limit : 3

Quantification limit : 7

	Aggregated value
Geometric mean	tr(5)
Median	tr(5)
Maximum	630
Minimum	nd

	Bivalves	Fish	Birds
Detection Frequency (site)	0/3	10/18	2/2
Detection Frequency (sample)	0/3	10/18	2/2
Geometric mean	nd	tr(4)	400
Median	nd	tr(6)	---
Maximum	nd	20	630
Minimum	nd	nd	250

	Local communities	No.	Monitored sites	Wildlife species	Measured value
Bivalves	Iwate Pref.	1	Yamada Bay	Blue mussel	nd
	Yokohama City	2	Yokohama Port	Blue mussel	nd
	Ishikawa Pref.	3	Coast of Noto Peninsula	Blue mussel	nd
Fish	Hokkaido	1	Offshore of Kushiro	Rock greenling	nd
		2		Chum salmon	nd
	Iwate Pref.	3	Yamada Bay	Greenling	tr(6)
	Miyagi Pref.	4	Sendai Bay (Matsushima Bay)	Greenling	12
	Ibaraki Pref.	5	Offshore of Joban	Chub mackerel	nd
	Tokyo Met.	6	Tokyo Bay	Sea bass	15
	Kawasaki City	7	Offshore of Ogishima Island, Port of	Sea bass	20
	Nagoya City	8	Nagoya Port	Striped mullet	nd
	Shiga Pref.	9	Lake Biwa, Riv. Ado	Dace	nd
	Osaka Pref.	10	Osaka Bay	Sea bass	nd
	Hyogo Pref.	11	Offshore of Himeji	Sea bass	7
	Tottori Pref.	12	Nakaumi	Sea bass	tr(6)
	Hiroshima City	13	Hiroshima Bay	Sea bass	tr(5)
	Kagawa Pref.	14	Takamatsu Port	Striped mullet	nd
	Kochi Pref.	15	Mouth of Riv. Shimanto (Shimanto City)	Sea bass	nd
	Oita Pref.	16	Mouth of Riv. Oita (Oita City)	Spanish mackerel	13
	Kagoshima Pref.	17	West Coast of Satsuma Peninsula	Sea bass	10
	Okinawa Pref.	18	Nakagusuku Bay	Okinawa seabream	7
Birds	Shiga Pref.	1	Tikubushima Island, Lake Biwa	Great Cormorant	250
	Tottori Pref.	2	Riv. Tenjin (Kurayoshi City)	Great Cormorant	630
	Hyogo Pref.	Reference value	Koya Pond (Itami City)	Egg of Great Cormorant (Egg yolk)	6,500
				Egg of Great Cormorant (Egg white)	62

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) tr : Detection limit value and more, less than Quantification limit value.

(Note 4) nd : Not detected

[1] Total Polychlorinated biphenyls (Total PCBs)/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : *0.3

Quantification limit : *0.9

	Aggregated value
Geometric mean	78
Median	82
Maximum	190
Minimum	18

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	34	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	19	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	45	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	37	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	53	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	97	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	140	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	37	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	98	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	160	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	88	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	140	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	68	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	120	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	73	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	86	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	130	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	70	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	170	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	170	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	150	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	150	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	62	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	18	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	79	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	120	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	130	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	68	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	190	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	42	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	130	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	75	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	46	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	72	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	100	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	33	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) *: Indicates the sum value of the Quantification [Detection] limits of each congeners.

[1-1] Monochlorobiphenyls/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.02

Quantification limit : 0.06

	Aggregated value
Geometric mean	7.8
Median	8.2
Maximum	38
Minimum	0.87

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	7.0	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	1.9	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	8.9	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	4.0	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	4.8	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	14	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	14	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	2.5	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	12	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	14	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	6.5	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	14	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	8.3	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	4.0	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	8.4	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	23	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	14	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	28	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	8.2	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	8.2	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	12	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	8.2	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	4.9	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	1.1	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	5.8	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	10	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	7.3	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	6.2	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	16	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	6.2	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	13	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	6.9	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	12	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	38	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	8.5	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	0.87	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

[1-2] Dichlorobiphenyls/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.05

Quantification limit : 0.12

	Aggregated value
Geometric mean	25
Median	26
Maximum	52
Minimum	5.6

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	11	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	7.3	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	18	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	16	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	23	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	35	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	40	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	17	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	28	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	51	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	28	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	44	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	23	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	45	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	19	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	24	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	39	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	18	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	48	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	35	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	39	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	42	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	27	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	5.6	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	24	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	37	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	39	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	18	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	52	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	15	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	31	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	26	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	17	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	15	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	32	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	14	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

[1-3] Trichlorobiphenyls/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.04

Quantification limit : 0.10

	Aggregated value
Geometric mean	21
Median	22
Maximum	57
Minimum	5.1

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	9.2	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	5.1	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	10	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	9.2	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	12	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	26	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	43	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	11	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	27	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	41	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	28	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	32	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	18	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	32	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	25	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	22	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	41	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	12	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	57	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	42	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	38	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	49	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	15	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	6.5	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	18	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	37	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	38	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	21	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	55	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	10	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	22	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	23	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	9.2	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	9.5	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	28	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	11	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

[1-4] Tetrachlorobiphenyls/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.03

Quantification limit : 0.08

	Aggregated value
Geometric mean	12
Median	14
Maximum	40
Minimum	2.9

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	4.4	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	2.9	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	4.6	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	4.2	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	6.5	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	14	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	29	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	4.3	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	20	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	33	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	15	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	23	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	11	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	22	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	13	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	12	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	18	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	7.6	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	35	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	37	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	32	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	40	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	8.4	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	3.3	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	14	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	24	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	31	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	12	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	36	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	6.0	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	17	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	12	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	4.7	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	5.1	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	20	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	5.2	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

[1-4-1] 3,3',4,4'-Tetrachlorobiphenyl (#77) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 33/36 (Missing value : 0)

Detection Frequency (sample) : 33/36 (Missing value : 0)

Detection limit : 0.01

Quantification limit : 0.04

	Aggregated value
Geometric mean	0.07
Median	0.08
Maximum	0.27
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	0.04	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	tr(0.02)	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	0.04	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	tr(0.03)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	0.06	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	0.08	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	0.14	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	tr(0.03)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.15	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	0.17	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	0.11	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	0.27	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	0.07	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	0.13	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	0.09	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	0.05	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	0.11	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	0.04	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	0.20	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	0.23	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	0.15	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	0.13	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	0.04	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	tr(0.03)	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	0.10	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	0.14	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	0.22	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	0.07	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	0.20	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	0.06	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	0.15	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	0.06	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	tr(0.03)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[1-4-2] 3,4,4',5-Tetrachlorobiphenyl (#81) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 2/36 (Missing value : 0)

Detection Frequency (sample) : 2/36 (Missing value : 0)

Detection limit : 0.02

Quantification limit : 0.04

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	0.06
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	nd	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	nd	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	nd	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	nd	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	0.06	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	tr(0.02)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr : Detection limit value and more, less than Quantification limit value.

(Note 5) nd : Not detected

[1-5] Pentachlorobiphenyls/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.07

Quantification limit : 0.17

	Aggregated value
Geometric mean	5.6
Median	6.0
Maximum	34
Minimum	1.2

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	1.7	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	1.3	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	2.2	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	2.1	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	4.1	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	5.2	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	13	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	1.3	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	7.2	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	16	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	7.0	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	15	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	5.0	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	12	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	5.2	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	3.8	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	9.5	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	3.1	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	17	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	34	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	16	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	10	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	4.3	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	1.2	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	12	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	7.3	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	9.3	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	6.8	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	19	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	3.4	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	13	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	4.5	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	1.5	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	2.5	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	7.8	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	1.5	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

[1-5-1] 2,3,3',4,4'-Pentachlorobiphenyl (#105) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 35/36 (Missing value : 0)

Detection Frequency (sample) : 35/36 (Missing value : 0)

Detection limit : 0.02

Quantification limit : 0.06

	Aggregated value
Geometric mean	0.15
Median	0.16
Maximum	1.0
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	tr(0.05)	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	tr(0.05)	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	tr(0.05)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	0.10	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	0.15	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	0.42	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	tr(0.04)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.22	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	0.51	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	0.20	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	0.57	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	0.11	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	0.26	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	0.14	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	0.07	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	0.57	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	tr(0.05)	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	0.46	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	1.0	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	0.47	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	0.24	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	0.12	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	tr(0.02)	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	0.34	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	0.26	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	0.59	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	0.17	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	0.60	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	0.06	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	0.36	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	0.12	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	0.07	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	0.07	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	0.26	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	tr(0.04)	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[1-5-2] 2,3,4,4',5-Pentachlorobiphenyl (#114) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 16/36 (Missing value : 0)

Detection Frequency (sample) : 16/36 (Missing value : 0)

Detection limit : 0.02

Quantification limit : 0.04

	Aggregated value
Geometric mean	tr(0.02)
Median	nd
Maximum	0.09
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(0.02)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	0.04	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.02)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	0.05	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	tr(0.02)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	0.07	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	tr(0.03)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	tr(0.02)	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	0.04	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	0.04	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	0.09	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	0.04	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	tr(0.03)	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Okishima National Acid Rain Observatory (Okishima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	tr(0.03)	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	tr(0.02)	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(0.02)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[1-5-3] 2,3',4,4',5-Pentachlorobiphenyl (#118) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.04

Quantification limit : 0.12

	Aggregated value
Geometric mean	0.40
Median	0.44
Maximum	3.0
Minimum	tr(0.06)

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	tr(0.10)	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	tr(0.06)	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	0.13	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	0.17	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	0.27	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	0.35	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	1.1	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	tr(0.11)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.52	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	1.3	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	0.52	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	1.3	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	0.36	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	0.73	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	0.38	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	0.19	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	1.1	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	0.17	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	1.3	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	3.0	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	1.3	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	0.62	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	0.33	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	tr(0.06)	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	0.93	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	0.52	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	0.78	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	0.51	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	1.5	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	0.24	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	1.2	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	0.32	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	tr(0.10)	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	0.19	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	0.57	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	tr(0.10)	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

[1-5-4] 2',3,4,4',5-Pentachlorobiphenyl (#123) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 22/36 (Missing value : 0)

Detection Frequency (sample) : 22/36 (Missing value : 0)

Detection limit : 0.01

Quantification limit : 0.04

	Aggregated value
Geometric mean	tr(0.01)
Median	tr(0.01)
Maximum	0.06
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	tr(0.01)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(0.01)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	tr(0.02)	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.01)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	tr(0.02)	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	tr(0.01)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	tr(0.03)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	tr(0.01)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	tr(0.02)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	tr(0.01)	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	tr(0.01)	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	tr(0.02)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	tr(0.01)	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	tr(0.03)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	0.06	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	tr(0.03)	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	tr(0.02)	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	tr(0.01)	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	tr(0.02)	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	tr(0.01)	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(0.02)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	tr(0.01)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[1-5-5] 3,3',4,4',5-Pentachlorobiphenyl (#126) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 19/36 (Missing value : 0)

Detection Frequency (sample) : 19/36 (Missing value : 0)

Detection limit : 0.01

Quantification limit : 0.03

	Aggregated value
Geometric mean	nd
Median	tr(0.01)
Maximum	0.09
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	tr(0.01)	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	tr(0.01)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(0.01)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	tr(0.02)	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.01)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	tr(0.01)	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	tr(0.01)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	0.09	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	tr(0.01)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	tr(0.01)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	tr(0.01)	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	tr(0.01)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	tr(0.01)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	tr(0.02)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	tr(0.01)	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	tr(0.01)	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	tr(0.01)	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	tr(0.01)	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(0.02)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[1-6] Hexachlorobiphenyls/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.03

Quantification limit : 0.09

	Aggregated value
Geometric mean	2.4
Median	2.4
Maximum	22
Minimum	0.56

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	0.64	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	0.56	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	0.81	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	0.85	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	1.9	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	2.0	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	4.7	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	0.80	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	2.7	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	5.9	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	3.0	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	7.3	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	2.0	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	3.8	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	2.0	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	1.2	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	5.5	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	0.99	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	6.3	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	13	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	6.9	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	3.9	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	1.7	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	0.63	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	4.7	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	3.0	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	3.8	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	3.0	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	7.6	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	1.5	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	22	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	1.8	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	0.93	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	1.2	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	5.7	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	0.73	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

[1-6-1] 2,3,3',4,4',5-Hexachlorobiphenyl (#156) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 34/36 (Missing value : 0)

Detection Frequency (sample) : 34/36 (Missing value : 0)

Detection limit : 0.01

Quantification limit : 0.03

	Aggregated value
Geometric mean	0.03
Median	0.03
Maximum	0.19
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	tr(0.01)	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	tr(0.01)	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	tr(0.01)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	tr(0.02)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	0.03	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	0.06	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	tr(0.01)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.03	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	0.08	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	0.03	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	0.19	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	tr(0.02)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	0.03	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	tr(0.02)	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	tr(0.01)	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	0.12	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	tr(0.01)	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	0.06	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	0.14	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	0.07	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	0.03	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	tr(0.02)	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	0.04	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	0.03	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	0.07	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	tr(0.02)	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	0.09	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	tr(0.02)	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	0.17	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	0.04	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	tr(0.01)	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	tr(0.01)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	0.07	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	tr(0.01)	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[1-6-2] 2,3,3',4,4',5'-Hexachlorobiphenyl (#157) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 25/36 (Missing value : 0)

Detection Frequency (sample) : 25/36 (Missing value : 0)

Detection limit : 0.01

Quantification limit : 0.03

	Aggregated value
Geometric mean	tr(0.01)
Median	tr(0.01)
Maximum	0.09
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	tr(0.01)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(0.01)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	tr(0.02)	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.01)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	tr(0.02)	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	tr(0.01)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	0.06	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	tr(0.01)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	tr(0.01)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	tr(0.01)	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	0.03	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	tr(0.01)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	0.03	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	tr(0.02)	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	tr(0.01)	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	tr(0.01)	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	tr(0.01)	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	tr(0.02)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	tr(0.01)	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	0.03	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	tr(0.01)	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	0.09	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(0.01)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	tr(0.01)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	tr(0.02)	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[1-6-3] 2,3',4,4',5,5'-Hexachlorobiphenyl (#167) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 30/36 (Missing value : 0)

Detection Frequency (sample) : 30/36 (Missing value : 0)

Detection limit : 0.01

Quantification limit : 0.03

	Aggregated value
Geometric mean	tr(0.02)
Median	tr(0.02)
Maximum	0.07
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	tr(0.01)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	tr(0.01)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(0.01)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	0.03	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	tr(0.01)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.02)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	0.04	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	tr(0.02)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	0.07	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	tr(0.01)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	tr(0.02)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	tr(0.02)	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	tr(0.01)	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	0.05	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	0.03	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	0.07	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	0.03	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	tr(0.02)	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	tr(0.01)	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	tr(0.02)	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	tr(0.01)	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	0.03	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	tr(0.01)	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	0.03	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	tr(0.01)	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	0.07	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(0.02)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	tr(0.01)	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	tr(0.01)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	0.03	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[1-6-4] 3,3',4,4',5,5'-Hexachlorobiphenyl (#169) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 1/36 (Missing value : 0)

Detection Frequency (sample) : 1/36 (Missing value : 0)

Detection limit : 0.01

Quantification limit : 0.03

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	0.03
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	nd	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	nd	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	nd	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	nd	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	0.03	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) nd : Not detected

[1-7] Heptachlorobiphenyls/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 35/36 (Missing value : 0)

Detection Frequency (sample) : 35/36 (Missing value : 0)

Detection limit : 0.02

Quantification limit : 0.06

	Aggregated value
Geometric mean	0.46
Median	0.49
Maximum	14
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	0.08	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	0.15	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	0.15	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	0.39	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	0.36	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	0.96	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	0.20	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	0.54	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	0.89	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	0.78	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	1.7	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	0.35	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	0.52	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	0.38	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	0.23	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	1.2	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	0.16	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	0.86	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	1.9	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	1.5	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	0.82	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	0.32	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	0.09	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	0.69	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	0.77	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	0.86	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	0.71	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	1.6	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	0.31	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	14	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	0.46	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	0.21	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	0.26	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	2.4	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	0.11	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) nd : Not detected

[1-7-1] 2,2',3,3',4,4',5-Heptachlorobiphenyl (#170) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 34/36 (Missing value : 0)

Detection Frequency (sample) : 34/36 (Missing value : 0)

Detection limit : 0.01

Quantification limit : 0.03

	Aggregated value
Geometric mean	0.04
Median	0.05
Maximum	0.87
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	tr(0.01)	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	tr(0.02)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	0.04	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	0.04	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	0.09	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	tr(0.02)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.05	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	0.08	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	0.07	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	0.25	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	0.03	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	0.04	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	0.05	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	tr(0.02)	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	0.14	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	tr(0.01)	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	0.06	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	0.16	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	0.14	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	0.06	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	0.03	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	tr(0.01)	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	0.05	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	0.06	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	0.10	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	0.05	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	0.13	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	0.03	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	0.87	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	0.05	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	tr(0.02)	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	0.03	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	0.16	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	tr(0.01)	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[1-7-2] 2,2',3,4,4',5,5'-Heptachlorobiphenyl (#180) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 35/36 (Missing value : 0)

Detection Frequency (sample) : 35/36 (Missing value : 0)

Detection limit : 0.005

Quantification limit : 0.012

	Aggregated value
Geometric mean	0.075
Median	0.071
Maximum	2.5
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	0.017	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	0.022	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	0.025	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	0.060	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	0.055	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	0.18	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	0.033	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.085	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	0.15	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	0.14	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	0.28	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	0.050	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	0.065	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	0.076	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	0.034	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	0.27	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	0.022	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	0.12	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	0.31	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	0.27	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	0.13	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	0.042	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	tr(0.011)	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	0.092	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	0.13	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	0.18	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	0.11	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	0.28	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	0.053	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	2.5	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	0.066	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	0.030	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	0.036	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	0.40	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	0.019	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[1-7-3] 2,3,3',4,4',5,5'-Heptachlorobiphenyl (#189) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 12/36 (Missing value : 0)

Detection Frequency (sample) : 12/36 (Missing value : 0)

Detection limit : 0.01

Quantification limit : 0.03

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	0.07
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(0.01)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	tr(0.01)	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.01)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	tr(0.01)	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	0.07	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	tr(0.01)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	tr(0.01)	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	tr(0.01)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	tr(0.02)	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(0.01)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	tr(0.01)	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	tr(0.01)	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[1-8] Octachlorobiphenyls/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 22/36 (Missing value : 0)

Detection Frequency (sample) : 22/36 (Missing value : 0)

Detection limit : 0.05

Quantification limit : 0.13

	Aggregated value
Geometric mean	tr(0.07)
Median	tr(0.06)
Maximum	1.6
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	nd	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	tr(0.05)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	tr(0.06)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	0.15	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	tr(0.08)	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	tr(0.09)	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	tr(0.11)	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	0.42	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	nd	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	tr(0.06)	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	tr(0.06)	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	0.15	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	tr(0.08)	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	0.20	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	0.18	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	tr(0.08)	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	tr(0.07)	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	tr(0.09)	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	tr(0.11)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	tr(0.07)	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	0.18	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	1.6	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(0.07)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	0.29	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[1-9] Nonachlorobiphenyls/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 17/36 (Missing value : 0)

Detection Frequency (sample) : 17/36 (Missing value : 0)

Detection limit : 0.02

Quantification limit : 0.05

	Aggregated value
Geometric mean	tr(0.02)
Median	nd
Maximum	0.20
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	tr(0.02)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(0.02)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	tr(0.04)	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.02)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	tr(0.02)	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	tr(0.02)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	0.20	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	tr(0.02)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	tr(0.02)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	tr(0.03)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	tr(0.02)	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	tr(0.02)	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	tr(0.02)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	0.07	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(0.02)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	tr(0.02)	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	tr(0.04)	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[1-10] Decachlorobiphenyl/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 29/36 (Missing value : 0)

Detection Frequency (sample) : 29/36 (Missing value : 0)

Detection limit : 0.01

Quantification limit : 0.03

	Aggregated value
Geometric mean	tr(0.01)
Median	tr(0.01)
Maximum	0.08
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	tr(0.01)	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	tr(0.01)	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	tr(0.01)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	tr(0.02)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	tr(0.02)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	0.04	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	tr(0.01)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	0.04	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	tr(0.02)	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	tr(0.02)	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	0.08	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	tr(0.01)	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	tr(0.02)	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	tr(0.01)	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	tr(0.01)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	tr(0.01)	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	tr(0.01)	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	tr(0.01)	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	tr(0.01)	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	tr(0.01)	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	tr(0.01)	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	tr(0.01)	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	tr(0.01)	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	tr(0.01)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	tr(0.01)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	tr(0.02)	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(0.01)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	tr(0.02)	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	tr(0.01)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[2] HCB (Hexachlorobenzene) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.04

Quantification limit : 0.09

	Aggregated value
Geometric mean	100
Median	99
Maximum	140
Minimum	71

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	76	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	80	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	89	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	74	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	110	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	120	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	100	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	110	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	92	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	120	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	110	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	140	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	110	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	140	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	89	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	72	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	98	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	78	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	120	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	98	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	110	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	97	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	73	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Okishima National Acid Rain Observatory (Okishima Town)	10/24~10/25	71	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	92	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	130	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	130	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	79	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	130	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	93	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	110	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	110	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	89	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	86	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	130	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	110	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

[11-1] α -HCH /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.04

Quantification limit : 0.10

	Aggregated value
Geometric mean	16
Median	16
Maximum	300
Minimum	2.9

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	8.5	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	6.8	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	8.5	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	6.5	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	16	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	21	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	200	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	300	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	8.2	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	13	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	26	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	35	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	18	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	22	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	13	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	7.5	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	18	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	6.1	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	26	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	17	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	19	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	9.0	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	21	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	4.5	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	11	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	34	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	26	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	7.0	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	19	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	11	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	100	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	23	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	11	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	6.4	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	17	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	2.9	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

[11-2] β -HCH /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.03

Quantification limit : 0.07

	Aggregated value
Geometric mean	1.8
Median	1.9
Maximum	14
Minimum	0.23

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	1.9	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	0.36	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	0.49	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	0.65	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	1.3	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	1.4	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	1.8	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	2.5	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	1.3	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	1.6	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	3.5	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	10	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	2.6	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	5.2	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	1.4	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	0.67	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	2.9	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	0.37	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	5.2	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	4.3	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	3.8	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	1.9	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	3.5	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	0.23	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	1.9	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	6.3	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	6.5	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	0.84	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	3.8	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	1.4	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	14	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	3.5	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	1.3	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	0.59	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	3.1	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	0.42	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

[11-3] γ -HCH (synonym: Lindane) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.03

Quantification limit : 0.09

	Aggregated value
Geometric mean	5.8
Median	5.9
Maximum	120
Minimum	0.63

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	1.9	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	1.5	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	2.2	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	2.0	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	5.9	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	6.9	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	60	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	120	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	3.7	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	5.8	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	10	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	15	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	6.4	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	8.6	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	4.6	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	2.5	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	5.9	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	1.5	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	8.9	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	7.1	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	11	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	4.4	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	9.1	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	1.1	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	3.7	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	21	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	21	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	3.9	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	9.2	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	4.2	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	22	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	11	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	3.2	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	2.1	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	6.2	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	0.63	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[11-4] δ -HCH /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 34/36 (Missing value : 0)

Detection Frequency (sample) : 34/36 (Missing value : 0)

Detection limit : 0.03

Quantification limit : 0.08

	Aggregated value
Geometric mean	0.58
Median	0.67
Maximum	12
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	0.36	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	0.10	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	0.27	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	0.27	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	0.57	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	1.1	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	0.71	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	1.2	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.44	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	0.52	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	1.8	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	3.8	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	0.98	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	1.0	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	0.58	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	0.24	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	0.68	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	0.14	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	1.6	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	0.84	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	0.97	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	0.38	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	1.1	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	0.32	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	1.2	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	1.6	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	0.28	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	1.1	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	0.66	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	12	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	2.0	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	0.39	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	0.30	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	3.0	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) nd : Not detected

[14] Polybromodiphenyl ethers(Br₄~Br₁₀) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 28/36 (Missing value : 0)

Detection Frequency (sample) : 28/36 (Missing value : 0)

Detection limit : *1.4

Quantification limit : *3.5

	Aggregated value
Geometric mean	tr(2.5)
Median	tr(2.0)
Maximum	17
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	tr(2.0)	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	nd	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	tr(2.8)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	tr(1.8)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	tr(3.4)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	6.7	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	14	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	5.2	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	tr(1.6)	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	nd	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	tr(1.8)	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	7.9	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	4.5	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	17	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	tr(3.0)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	tr(1.9)	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	6.4	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	6.4	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	tr(1.6)	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	tr(3.0)	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	tr(1.6)	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	4.4	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	tr(1.7)	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	tr(1.9)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	tr(1.7)	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	6.6	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	11	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	15	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	tr(2.0)	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	tr(1.8)	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

(Note 6) *: Indicates the sum value of the Quantification [Detection] limits of each congeners.

[14-1] Tetrabromodiphenyl ethers /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 20/36 (Missing value : 0)

Detection Frequency (sample) : 20/36 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.6

	Aggregated value
Geometric mean	tr(0.2)
Median	tr(0.2)
Maximum	1.1
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	tr(0.3)	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(0.2)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	tr(0.5)	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	tr(0.3)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.6	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	0.7	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	tr(0.4)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	tr(0.2)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	tr(0.4)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	tr(0.4)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	1.1	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	tr(0.2)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	tr(0.3)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	tr(0.5)	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	tr(0.2)	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	tr(0.3)	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	tr(0.2)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	tr(0.2)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	tr(0.3)	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	tr(0.2)	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[14-1-1] 2,2',4,4'-Tetrabromodiphenyl ether (#47) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 35/36 (Missing value : 0)

Detection Frequency (sample) : 35/36 (Missing value : 0)

Detection limit : 0.02

Quantification limit : 0.05

	Aggregated value
Geometric mean	0.11
Median	0.14
Maximum	0.86
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	tr(0.03)	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	0.07	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	0.28	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	tr(0.04)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	tr(0.04)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	0.14	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	0.35	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	0.16	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	0.48	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	0.40	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	0.26	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	0.12	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	0.30	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	0.19	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	tr(0.04)	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	0.06	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	0.86	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	tr(0.03)	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	0.17	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	0.17	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	0.33	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	0.18	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	0.08	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	tr(0.02)	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	0.07	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	0.17	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	0.15	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	0.08	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	0.18	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	0.07	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	0.24	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	0.14	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	0.05	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	0.05	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	0.17	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[14-2] Pentabromodiphenyl ethers /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 13/36 (Missing value : 0)

Detection Frequency (sample) : 13/36 (Missing value : 0)

Detection limit : 0.05

Quantification limit : 0.12

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	0.31
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	0.15	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	nd	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	tr(0.09)	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	0.19	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	0.12	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	tr(0.05)	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	nd	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	tr(0.07)	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	0.31	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	0.20	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	tr(0.05)	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	tr(0.05)	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	tr(0.05)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	tr(0.11)	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	tr(0.05)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[14-2-1] 2,2',4,4',5-Pentabromodiphenyl ether (#99) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 14/36 (Missing value : 0)

Detection Frequency (sample) : 14/36 (Missing value : 0)

Detection limit : 0.04

Quantification limit : 0.09

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	0.14
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	0.12	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(0.04)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	tr(0.08)	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	0.14	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	0.09	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	tr(0.04)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	tr(0.05)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	0.13	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	0.14	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	tr(0.05)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	tr(0.04)	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	tr(0.04)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	tr(0.08)	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	tr(0.04)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[14-3] Hexabromodiphenyl ethers /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 1/36 (Missing value : 0)

Detection Frequency (sample) : 1/36 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.5

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	0.6
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	nd	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	nd	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	nd	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	nd	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	nd	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	nd	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	nd	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	0.6	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	nd	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) nd : Not detected

[14-3-1] 2,2',4,4',5,5'-Hexabromodiphenyl ether (#153) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 1/36 (Missing value : 0)

Detection Frequency (sample) : 1/36 (Missing value : 0)

Detection limit : 0.06

Quantification limit : 0.17

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	0.37
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	nd	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	nd	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	nd	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	nd	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	nd	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	nd	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	nd	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	0.37	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	nd	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr : Detection limit value and more, less than Quantification limit value.

(Note 5) nd : Not detected

[14-3-2] 2,2',4,4',5,6'-Hexabromodiphenyl ether (#154) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 1/36 (Missing value : 0)

Detection Frequency (sample) : 1/36 (Missing value : 0)

Detection limit : 0.07

Quantification limit : 0.19

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(0.17)
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	nd	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	nd	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	nd	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	nd	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	tr(0.17)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[14-4] Heptabromodiphenyl ethers /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 1/36 (Missing value : 0)

Detection Frequency (sample) : 1/36 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.4

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	1.0
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	nd	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	nd	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	nd	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	nd	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	nd	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	nd	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	nd	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	1.0	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	nd	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[14-4-1] 2,2',3,3',4,5',6-Heptabromodiphenyl ether (#175) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 0/36 (Missing value : 0)

Detection Frequency (sample) : 0/36 (Missing value : 0)

Detection limit : 0.06

Quantification limit : 0.15

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	nd
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	nd	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	nd	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	nd	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	nd	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Okii National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) nd : Not detected

[14-4-2] 2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 4/36 (Missing value : 0)

Detection Frequency (sample) : 4/36 (Missing value : 0)

Detection limit : 0.06

Quantification limit : 0.15

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	0.96
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	nd	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	tr(0.06)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	tr(0.06)	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	tr(0.06)	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	nd	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	nd	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	nd	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	0.96	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	nd	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	nd	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[14-5] Octabromodiphenyl ethers /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 12/36 (Missing value : 0)

Detection Frequency (sample) : 12/36 (Missing value : 0)

Detection limit : 0.1

Quantification limit : 0.3

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	0.4
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	tr(0.1)	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	tr(0.1)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(0.1)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	tr(0.1)	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(0.1)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	tr(0.1)	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	0.4	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	tr(0.1)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	tr(0.1)	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	tr(0.1)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	tr(0.1)	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	tr(0.1)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[14-6] Nonabromodiphenyl ethers /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 15/36 (Missing value : 0)

Detection Frequency (sample) : 15/36 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.7

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	1.0
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	tr(0.3)	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	tr(0.4)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(0.4)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	tr(0.6)	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	1.0	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	tr(0.5)	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	tr(0.6)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	tr(0.3)	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	0.8	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	nd	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	tr(0.6)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	tr(0.4)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	tr(0.4)	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	tr(0.5)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	tr(0.6)	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	0.7	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[14-7] Decabromodiphenyl ether /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 33/36 (Missing value : 0)

Detection Frequency (sample) : 33/36 (Missing value : 0)

Detection limit : 0.3

Quantification limit : 0.9

	Aggregated value
Geometric mean	2.0
Median	1.8
Maximum	16
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	1.0	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	1.7	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	tr(0.6)	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	2.3	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	1.8	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	2.7	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	5.4	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	12	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	3.8	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	1.1	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	tr(0.8)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	1.3	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	4.6	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	4.2	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	16	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	1.7	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	1.9	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	5.5	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	5.6	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	1.1	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	2.7	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	1.6	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	3.9	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	1.4	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	1.7	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	1.7	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	5.8	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	10	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	14	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	0.9	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	2.0	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	tr(0.8)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	1.6	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[15] Perfluorooctane sulfonic acid (PFOS) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.07

Quantification limit : 0.19

	Aggregated value
Geometric mean	4.6
Median	5.3
Maximum	8.6
Minimum	1.2

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	7.9	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	5.4	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	2.0	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	8.2	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	8.1	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	8.6	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	7.2	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	8.5	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	2.1	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	7.6	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	6.2	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	4.5	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	5.2	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	2.6	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	6.3	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	2.3	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	5.6	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	2.9	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	3.3	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	3.4	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	4.8	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	4.5	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	2.5	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Okishima National Acid Rain Observatory (Okishima Town)	10/24~10/25	3.0	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	2.3	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	7.2	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	7.0	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	2.9	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	7.8	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	3.2	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	5.2	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	7.3	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	1.2	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	6.6	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	5.9	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	6.7	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

[16] Perfluorooctanoic acid (PFOA) /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.2

Quantification limit : 0.5

	Aggregated value
Geometric mean	11
Median	10
Maximum	26
Minimum	4.1

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	6.4	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	4.3	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	4.1	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	12	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	7.0	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	24	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	21	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	9.6	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	8.3	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	19	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	16	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	9.6	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	8.7	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	14	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	10	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	9.3	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	11	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	11	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	10	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	26	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	21	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	16	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	8.1	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	4.9	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	12	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	12	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	12	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	11	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	23	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	23	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	8.9	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	9.3	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	5.8	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	8.2	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	17	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	4.1	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

[17] Pentachlorobenzene/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.03

Quantification limit : 0.08

	Aggregated value
Geometric mean	60
Median	60
Maximum	130
Minimum	30

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	41	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	41	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	54	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	36	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	67	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	75	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	110	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	120	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	64	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	74	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	65	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	130	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	58	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	70	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	59	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	47	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	54	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	47	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	65	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	61	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	72	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	56	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	37	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	30	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	53	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	71	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	65	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	42	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	84	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	52	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	79	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	72	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	57	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	48	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	84	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	42	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

[19] 1,2,5,6,9,10-Hexabromocyclododecanes /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 31/36 (Missing value : 0)

Detection Frequency (sample) : 31/36 (Missing value : 0)

Detection limit : *0.18

Quantification limit : *0.48

	Aggregated value
Geometric mean	0.51
Median	0.52
Maximum	26
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	tr(0.31)	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	tr(0.29)	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	tr(0.22)	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	tr(0.38)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	tr(0.21)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(0.46)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	2.2	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	1.1	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	26	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	0.64	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	1.0	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	tr(0.29)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	tr(0.23)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	0.90	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	0.98	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	tr(0.33)	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	0.57	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	0.60	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	1.4	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	1.1	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	0.59	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	0.75	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	1.5	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	1.3	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	1.4	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	0.67	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	tr(0.44)	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	tr(0.42)	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(0.25)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	tr(0.43)	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	1.4	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

(Note 6) *: Indicates the sum value of the Quantification [Detection] limits of each target chemicals.

[19-1] α -1,2,5,6,9,10-Hexabromocyclododecane /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 35/36 (Missing value : 0)

Detection Frequency (sample) : 35/36 (Missing value : 0)

Detection limit : 0.06

Quantification limit : 0.16

	Aggregated value
Geometric mean	0.29
Median	0.28
Maximum	19
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	0.24	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	0.23	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	0.17	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	0.19	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	tr(0.13)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	0.27	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	1.4	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	0.97	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	19	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	0.38	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	0.67	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	tr(0.13)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	tr(0.11)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	0.47	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	0.42	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	0.21	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	0.34	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	0.28	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	0.50	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	0.32	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	0.29	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	0.35	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	0.58	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	0.65	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	tr(0.10)	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	tr(0.06)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	0.57	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	0.40	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	0.27	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	0.22	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(0.12)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	0.28	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	tr(0.11)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	0.47	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	tr(0.06)	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[19-2] β -1,2,5,6,9,10-Hexabromocyclododecane /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 19/36 (Missing value : 0)

Detection Frequency (sample) : 19/36 (Missing value : 0)

Detection limit : 0.07

Quantification limit : 0.18

	Aggregated value
Geometric mean	tr(0.07)
Median	tr(0.07)
Maximum	4.1
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(0.08)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	0.27	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	4.1	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	tr(0.08)	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	tr(0.09)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	tr(0.08)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	tr(0.13)	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	tr(0.07)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	tr(0.08)	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	tr(0.17)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	tr(0.09)	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	tr(0.07)	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	tr(0.15)	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	0.22	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	0.22	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	tr(0.10)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	tr(0.08)	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	tr(0.07)	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	0.23	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[19-3] γ -1,2,5,6,9,10-Hexabromocyclododecane /air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 32/36 (Missing value : 0)

Detection Frequency (sample) : 32/36 (Missing value : 0)

Detection limit : 0.05

Quantification limit : 0.14

	Aggregated value
Geometric mean	0.17
Median	0.16
Maximum	3.1
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	tr(0.07)	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	tr(0.06)	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	tr(0.05)	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	0.19	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	tr(0.08)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(0.11)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	0.57	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	tr(0.11)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	3.1	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	0.18	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	0.29	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	0.16	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	tr(0.12)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	0.35	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	0.43	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	tr(0.12)	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	0.16	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	0.24	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	0.73	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	0.76	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	0.21	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	0.33	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	0.79	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	0.39	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	tr(0.07)	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	0.60	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	0.17	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	tr(0.09)	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	tr(0.13)	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(0.13)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	0.15	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	0.70	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[21] Hexachlorobuta-1,3-diene/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 108/108 (Missing value : 0)

Detection limit : 20

Quantification limit : 50

	Aggregated value
Geometric mean	2,400
Median	2,300
Maximum	5,000
Minimum	1,700

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/5	2,100	LV
			10/5~10/6	1,700	
			10/6~10/7	2,100	
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	3,500	LV
			10/4~10/5	2,100	
			10/5~10/6	1,800	
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	3,000	LV
			9/28~9/29	2,600	
			9/29~9/30	3,100	
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/25	2,000	LV
			10/25~10/26	1,800	
			10/26~10/27	1,900	
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/27~9/28	2,600	LV
			9/28~9/29	2,500	
			9/29~9/30	2,800	
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~9/28	3,000	LV
			9/28~9/29	3,200	
			9/29~9/30	2,800	
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/18	2,500	LV
			10/18~10/19	2,500	
			10/19~10/20	2,400	
	8	Chichijima Island (Ogasawara Village)	11/8~11/9	2,800	LV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	3,800	
			11/9~11/10	3,300	
			11/10~11/11	3,800	
	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/12	2,500	LV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	10/12~10/13	2,100	
			10/13~10/14	2,300	
			9/26~9/27	2,600	LV
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/27~9/28	2,900	
			9/28~9/29	2,700	
			9/12~9/13	2,000	LV
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/13~9/14	1,900	
			9/14~9/15	2,000	
			9/14~9/15	2,400	LV
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	2,100	
			9/27~9/28	2,300	
			9/28~9/29	2,400	
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/8	2,300	LV
			11/8~11/9	4,300	
			11/9~11/10	3,200	
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	2,300	LV
			10/25~10/26	1,900	
			10/26~10/27	1,900	
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/5	2,600	LV
			10/5~10/6	2,200	
			10/6~10/7	2,100	
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	2,000	LV
			10/25~10/26	1,900	
			10/26~10/27	1,900	
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	2,600	LV
			9/27~9/28	2,300	
			9/28~9/29	2,700	
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	2,200	LV
			10/12~10/13	2,300	
			10/13~10/14	2,100	

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	2,600	LV
			9/27~9/28	2,500	
			9/28~9/29	2,500	
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	2,300	LV
			10/4~10/5	2,300	
			10/5~10/6	2,000	
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	2,300	LV
			10/25~10/26	1,800	
			10/26~10/27	1,800	
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	2,000	LV
			10/25~10/26	1,800	
			10/26~10/27	1,800	
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	3,100	LV
			10/18~10/19	2,100	
			10/19~10/20	1,900	
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/14	2,100	LV
			9/14~9/15	1,900	
			9/15~9/16	1,700	
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/14	2,100	LV
			9/14~9/15	1,900	
			9/15~9/16	2,000	
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	2,400	LV
			10/25~10/26	1,900	
			10/26~10/27	1,700	
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~9/28	2,600	LV
			9/28~9/29	2,500	
			9/29~9/30	2,500	
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	2,700	LV
			11/8~11/9	5,000	
			11/9~11/10	5,000	
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	3,300	LV
			10/5~10/6	2,300	
			10/6~10/7	2,100	
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~9/28	3,100	LV
			9/28~9/29	2,600	
			9/29~9/30	3,000	
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	2,200	LV
			11/8~11/9	3,900	
			11/9~11/10	4,700	
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/12	2,200	LV
			10/12~10/13	2,000	
			10/13~10/14	2,200	
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	2,900	LV
			9/27~9/28	3,400	
			9/28~9/29	3,300	
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	2,000	LV
			9/27~9/28	2,500	
			9/28~9/29	2,900	

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) LV: Low volume air sampler

[23] Short-chain chlorinated paraffins/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 14/36 (Missing value : 0)

Detection Frequency (sample) : 14/36 (Missing value : 0)

Detection limit : *400

Quantification limit : *1,100

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	3,400
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	tr(400)	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	tr(400)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	tr(800)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	1,200	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	tr(1,000)	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	nd	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	1,600	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	tr(400)	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	1,300	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	tr(400)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	tr(400)	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	tr(400)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	3,400	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(600)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	tr(800)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

(Note 6) *: Indicates the sum value of the Quantification [Detection] limits of each substance with the same number of carbons in the alkyl group.

[23-1] Chlorinated decanes/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 40

Quantification limit : 110

	Aggregated value
Geometric mean	120
Median	130
Maximum	490
Minimum	tr(40)

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	140	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	tr(40)	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	tr(90)	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	tr(100)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	320	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	290	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	270	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	110	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	tr(60)	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	490	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	tr(60)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	130	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	170	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	190	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	150	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	tr(50)	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	300	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	tr(40)	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	200	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	200	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	130	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	190	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	tr(60)	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	tr(50)	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	tr(70)	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	160	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	170	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	tr(40)	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	410	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	tr(40)	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	tr(90)	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	190	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	tr(60)	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	210	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	110	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	tr(100)	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

[23-2] Chlorinated undecanes/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 22/36 (Missing value : 0)

Detection Frequency (sample) : 22/36 (Missing value : 0)

Detection limit : 100

Quantification limit : 300

	Aggregated value
Geometric mean	tr(130)
Median	tr(120)
Maximum	2,400
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	tr(170)	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	tr(140)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	tr(280)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	710	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	480	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	tr(230)	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	nd	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	670	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	tr(140)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	tr(110)	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	tr(150)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	tr(180)	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	570	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	tr(110)	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	tr(170)	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	tr(100)	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	tr(120)	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	tr(210)	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	tr(200)	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	2,400	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(220)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	430	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	tr(120)	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[23-3] Chlorinated dodecanes/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 11/36 (Missing value : 0)

Detection Frequency (sample) : 11/36 (Missing value : 0)

Detection limit : 120

Quantification limit : 360

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	430
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	tr(130)	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	nd	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	nd	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	tr(130)	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	tr(170)	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	tr(200)	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	tr(240)	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	nd	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	370	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	nd	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	tr(120)	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	tr(260)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	nd	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	nd	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	nd	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	430	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	tr(140)	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	tr(140)	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[23-4] Chlorinated tridecanes/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 3/36 (Missing value : 0)

Detection Frequency (sample) : 3/36 (Missing value : 0)

Detection limit : 110

Quantification limit : 330

	Aggregated value
Geometric mean	nd
Median	nd
Maximum	tr(190)
Minimum	nd

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4~10/11	nd	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27~9/28	nd	HV
			9/28~9/29		
			9/29~9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24~10/31	nd	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26~10/3	nd	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27~10/4	nd	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17~10/24	nd	MV
	8	Chichijima Island (Ogasawara Village)	11/8~11/15	nd	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8~11/9	nd	HV
			11/9~11/10		
			11/10~11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11~10/18	tr(120)	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12~9/13	nd	HV
			9/13~9/14		
			9/14~9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12~9/13	nd	HV
			9/13~9/14		
			9/14~9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7~11/14	nd	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4~10/11	tr(130)	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11~10/12	nd	HV
			10/12~10/13		
			10/13~10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	nd	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	nd	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	nd	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	nd	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	nd	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	tr(190)	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	nd	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	nd	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	nd	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	nd	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	nd	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.

(Note 3) HV: High volume air sampler, MV: Medium volume air sampler.

(Note 4) tr: Detection limit value and more, less than Quantification limit value.

(Note 5) nd: Not detected

[25] Perfluorohexane sulfonic acid (PFHxS)/air (pg/m³)

Monitored year : 2022

Detection Frequency (site) : 36/36 (Missing value : 0)

Detection Frequency (sample) : 36/36 (Missing value : 0)

Detection limit : 0.04

Quantification limit : 0.11

	Aggregated value
Geometric mean	3.1
Median	3.2
Maximum	7.0
Minimum	0.79

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hokkaido	1	Kamikawa General Subprefectural Bureau (Asahikawa City)	10/4 ~ 10/11	5.9	MV
Sapporo City	2	Sapporo Art Park (Sapporo City)	10/3 ~ 10/4	1.9	HV
			10/4 ~ 10/5		
			10/5 ~ 10/6		
Iwate Pref.	3	Sugo Air Quality Monitoring Station (Takizawa City)	9/27 ~ 9/28	1.4	HV
			9/28 ~ 9/29		
			9/29 ~ 9/30		
Miyagi Pref.	4	Miyagi Prefectural Institute of Public Health and Environment (Sendai City)	10/24 ~ 10/31	7.0	MV
Yamagata Pref.	5	Yamagata Institute of Environmental Sciences (Murayama City)	9/26 ~ 10/3	6.0	MV
Ibaraki Pref.	6	Ibaraki Kasumigaura Environmental Science Center (Tsuchiura City)	9/27 ~ 10/4	6.6	MV
Tokyo Met.	7	Tokyo Metropolitan Research Institute for Environmental Protection (Koto Ward)	10/17 ~ 10/24	5.6	MV
	8	Chichijima Island (Ogasawara Village)	11/8 ~ 11/15	6.5	MV
Kanagawa Pref.	9	Kanagawa Environmental Research Center (Hiratsuka City)	11/8 ~ 11/9	1.2	HV
			11/9 ~ 11/10		
			11/10 ~ 11/11		
Yokohama City	10	Yokohama Environmental Science Research Institute (Yokohama City)	10/11 ~ 10/18	4.5	MV
Niigata Pref.	11	Oyama Air Quality Monitoring Station (Niigata City)	9/26 ~ 9/27	3.4	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Toyama Pref.	12	Tonami Air Quality Monitoring Station (Tonami City)	9/12 ~ 9/13	2.6	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Ishikawa Pref.	13	Ishikawa Prefectural Institute of Public Health and Environmental Science (Kanazawa City)	9/12 ~ 9/13	3.2	HV
			9/13 ~ 9/14		
			9/14 ~ 9/15		
Yamanashi Pref.	14	Yamanashi Prefectural Institute of Public Health and Environment (Kofu City)	9/26 ~ 9/27	1.8	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Nagano Pref.	15	Nagano Environmental Conservation Research Institute (Nagano City)	11/7 ~ 11/14	4.3	MV
Gifu Pref.	16	Gifu Prefectural Research Institute for Health and Environmental Sciences (Kakamigahara City)	10/24 ~ 10/25	1.6	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Nagoya City	17	Chikusa Ward Heiwa Park (Nagoya City)	10/4 ~ 10/11	4.4	MV
Mie Pref.	18	Mie Prefecture Health and Environment Research Institute (Yokkaichi City)	10/24 ~ 10/25	2.4	HV
			10/25 ~ 10/26		
			10/26 ~ 10/27		
Kyoto Pref.	19	Kyoto Prefecture Joyo Senior High School (Joyo City)	9/26 ~ 9/27	1.9	HV
			9/27 ~ 9/28		
			9/28 ~ 9/29		
Osaka Pref.	19	Osaka Joint Prefectural Government Building, Building 2 Annex (Osaka City)	10/11 ~ 10/12	2.4	HV
			10/12 ~ 10/13		
			10/13 ~ 10/14		

Local communities	No.	Monitored sites	Warm season		Air sampler
			Sampling dates	Measured value	
Hyogo Pref.	20	Hyogo Prefectural Environmental Research Center (Kobe City)	9/26~9/27	3.0	HV
			9/27~9/28		
			9/28~9/29		
Kobe City	21	Kobe City Institute of Health and Environmental Sciences (Kobe City)	10/3~10/4	2.5	HV
			10/4~10/5		
			10/5~10/6		
Nara Pref.	22	Tenri Air Quality Monitoring Station (Tenri City)	10/24~10/25	1.7	HV
			10/25~10/26		
			10/26~10/27		
Shimane Pref.	23	Oki National Acid Rain Observatory (Okinoshima Town)	10/24~10/25	1.7	HV
			10/25~10/26		
			10/26~10/27		
Hiroshima City	24	Hiroshima City Kokutaiji Junior High School (Hiroshima City)	10/17~10/18	1.7	HV
			10/18~10/19		
			10/19~10/20		
Yamaguchi Pref.	25	Yamaguchi Prefectural Institute of Public Health and Environment (Yamaguchi City)	9/13~9/20	5.2	MV
	26	Hagi Health and Welfare Center (Hagi City)	9/13~9/20	5.3	MV
Tokushima Pref.	27	Tokushima Prefectural Public Health, Pharmaceutical and Environmental Sciences Center (Tokushima City)	10/24~10/25	2.2	HV
			10/25~10/26		
			10/26~10/27		
Kagawa Pref.	28	Kagawa Prefectural Research Institute for Environmental Sciences and Public Health (Takamatsu City)	9/27~10/4	6.4	MV
Ehime Pref.	29	Ehime Prefectural Government Nanyo Regional Office (Uwajima City)	11/7~11/8	1.6	HV
			11/8~11/9		
			11/9~11/10		
Fukuoka Pref.	30	Omura City Government Building (Omura City)	10/4~10/5	3.1	HV
			10/5~10/6		
			10/6~10/7		
Saga Pref.	31	Saga Prefectural Environmental Research Center (Saga City)	9/27~10/4	5.7	MV
Kumamoto Pref.	32	Kumamoto Prefectural Institute of Public Health and Environmental Science (Udo City)	11/7~11/8	0.79	HV
			11/8~11/9		
			11/9~11/10		
Miyazaki Pref.	33	Miyazaki Prefectural Institute for Public Health and Environment (Miyazaki City)	10/11~10/18	4.9	MV
Kagoshima Pref.	34	Kagoshima Prefectural Institute for Environmental Research and Public Health (Kagoshima City)	9/26~9/27	3.3	HV
			9/27~9/28		
			9/28~9/29		
Okinawa Pref.	35	Cape Hedo (Kunigami Village)	9/26~9/27	4.4	HV
			9/27~9/28		
			9/28~9/29		

(Note 1) Detection frequency (site) is based on the number of sites, thus means (the number of detected sites/the number of surveyed sites).

Detection frequency (sample) is based on the number of samples, thus means (the number of detected samples/the number of surveyed samples).

(Note 2) Data treated as detected means detection limit value and more.