June 14, 2013

This data was compiled from personal communications and literature published through March 2011. Approximately 2,400 enantiomer composition measurements, averages, and ranges are collected for five chiral chlordane compounds. The "sample type" column lists some general information about the sample, such as location, matrix, time collected, species, tissue type, etc. The next five columns present the enantiomeric composition measure for *cis*-chlordane (CC), *trans*-chlordane (TC), *exo*-heptachlor epoxide (HEPX), heptachlor (HEPT) and oxychlordane (OXY). The "type" column indicates whether an enantiomeric ratio (ER or R) or enantiomer fraction (EF or F) was reported. In the case of early ER measurements, the elution order of the enantiomers was sometimes unknown, so ER values were reported as the first eluting enantiomer divided by the second eluting. That is typically noted by "1,2" and where possible the elution order is presented based on later studies with the same enantioselective chromatography column. This information becomes particularly important when comparing with other studies, or when converting an ER to EF. Several publications discuss the reason EF is preferred over ER and caution when converting between ER and EF (*1*-*3*).

I have attempted to include all enantiomer composition measurements available, but it is likely that some studies have been left out inadvertently, or did not surface during my literature searches. As the data set ages, new information will inevitably be published, and the dataset will need to be updated. If you come across data that is relevant, please let me know and I will do my best to add it. A table in the same format as what is presented below would be most appreciated. To the extent humanly possible, the data is presented as reported in the source materials, including the format, order, and number of significant digits. In some cases, values were estimated from graphs and figures. Both the scale and the data points were carefully measured, but this method may introduce minor deviations from the actual true value. If you find errors, please bring them to my attention so they can be corrected rather than perpetuated. I also am interested in hearing how you are using the dataset and receiving related publications. Thank you for your interest.

A review of this data is published in the ACS symposium series "Chiral Pesticides: Stereoselectivity and its Consequences" edited by A. W. Garrison, W. Liu, and J. Gan. "Chiral chlordane components in environmental matrices" by E. Ulrich and R. L. Falconer pp 11-43; DOI: 10.1021/bk-2011-1085.ch002

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Enantiomer composition measurements of chlordane compounds in the environment

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Lake DV09, Devon Island, Canada, sediment core (*4*)	--	0.464–0.496	--			F
Alabama agricultural soils (*5*)	0.50–0.56	0.47–0.49	0.69–0.73			F
Conn. agricultural soils (*6*)	0.53–0.57	0.42–0.46	--			F
Conn. soil near houses (*7*)	0.494–0.563	0.393–0.515	--			F
Cornbelt soil (*8*)	0.497–0.609	0.324–0.482	0.539–0.879			F
Arctic Ocean water (*9*)	0.495–0.515	0.492–0.515	0.595–0.638			F
Cornbelt air above soil (*10*)	0.507–0.554	0.371–0.471	0.624–0.766			F
Lake Erie air (*11*)	0.413–0.619	0.372–0.554	0.528–0.765			F
Technical chlordane (*12*)	1.01 ± 0.01	1.01 ± 0.01				R
Baltic herring (*12*)	1.35 ± 0.1	0.42 ± 0.02				R
Baltic salmon (*12*)	0.38 ± 0.03	1.19 ± 0.02				R
Baltic seal (*12*)		0.60 ± 0.04				R
Ambient Air, Norway 1991 (*13*)	0.97	0.97		0.97		R 1,2 Hept -/+ TC, CC +/-
Ambient Air, Norway 1991 (*13*)	0.99	0.99		1.02		R 1,2 Hept -/+ TC, CC +/-
Ambient Air, Norway 1991 (*13*)	1.02	1.02		0.92		R 1,2 Hept -/+ TC, CC +/-
Ambient Air, Norway 1991 (*13*)	1.04	0.99		1.03		R 1,2 Hept -/+ TC, CC +/-
Ambient Air, Norway 1991 (*13*)	0.99	0.94		0.98		R 1,2 Hept -/+ TC, CC +/-
Ambient Air, Norway 1991 (*13*)	1.06	0.98				R 1,2 Hept -/+ TC, CC +/-

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Ambient Air, Norway 1991 (*13*)		0.98				R 1,2 Hept -/+ TC, CC +/-
Sea gull egg (Schleswig-Holstein) (*14*)			2.7		2.3	R
Sea gull egg (Schleswig-Holstein) (*14*)			1.6		2.1	R
Sea gull egg (Schleswig-Holstein) (*14*)					1.8	R
Sea gull egg (Schleswig-Holstein) (*14*)					1.5	R
Sea gull egg (Schleswig-Holstein) (*14*)					1.5	R
Hare liver (Schleswig-Holstein) (*14*)			3.3		1.1	R
Hare liver (Schleswig-Holstein) (*14*)			2.5		1.0	R
Hare liver (Schleswig-Holstein) (*14*)			3.7		1.3	R
Hare liver (Schleswig-Holstein) (*14*)			2.6		1.3	R
Hare liver (Schleswig-Holstein) (*14*)			3.2		1.5	R
Roe-deer liver (Schleswig-Holstein) (*14*) (*15*)			1		9	R
Roe-deer liver (Schleswig-Holstein) (*14*) (*15*)			2		12	R
Roe-deer liver (Schleswig-Holstein) (*14*) (*15*)			6		14	R
Roe-deer liver (Schleswig-Holstein) (*14*) (*15*)			7		17	R
Roe-deer liver (Schleswig-Holstein) (*14*) (*15*)			9		12	R
Roe-deer liver (Schleswig-Holstein) (*15*)			2		11	R
Roe-deer liver (Schleswig-Holstein) (*15*)			5		11	R

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Roe-deer liver (Schleswig-Holstein) (*15*)			5		7	R
Seal fat (Iceland) (*14*)			0.14		0.66	R
Seal fat (Iceland) (*14*)			0.18		0.54	R
Seal liver (Iceland) (*14*)			0.06		0.57	R
Seal liver (Iceland) (*14*)			0.05		0.45	R
Seal brain (Iceland) (*14*)			0.11		0.57	R
Seal brain (Iceland) (*14*)					0.48	R
Roe-deer liver (Baden-Württemberg) (*15*)			2		27	R
Roe-deer liver (Baden-Württemberg) (*15*)			3		19	R
Roe-deer liver (Baden-Württemberg) (*15*)			2		20	R
Roe-deer liver (Baden-Württemberg) (*15*)			3		18	R
Polar fox liver (*16*)					0.8-2.0	R
Harbor seal blubber (*16*)					0.6-0.9	R
Gray seal blubber (*16*)					1.1-1.6	R
Caspian seal blubber (*16*)					2.0	R
SRM 1588 (cod liver oil) (*17*)	0.95 ± 0.01	1.13 ± 0.01	1.60 ± 0.02		1.33 ± 0.02	R
Alabama soil (*18*)	1.13	0.92				R
Cornbelt soil (*18*)	1.19	0.71				R
Lake Ontario air (*18*)	1.03	0.91				R
Lake Superior air (*18*)	0.87	1.09				R
Fraser Valley, BC silt loam soil (*19*)	0.97	0.98	1.37		0.68	R
Fraser Valley, BC silt loam soil (*19*)	1.01	0.99				R
Fraser Valley, BC silt loam soil (*19*)	0.97	1.00				R
Fraser Valley, BC muck soil (*19*)	1.01	0.98	1.37	1.11	0.58	R
Fraser Valley, BC muck soil (*19*)	1.01	0.97	1.26	1.09	0.85	R

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Fraser Valley, BC muck soil (*19*)	1.01	0.98	1.20	1.05	0.75	R
Rural air (Alabama) (*20*)	1.03	0.98	1.70			R
Columbia, SC air (*20*)	1.02	1.00	1.50			R
Indoor air (S. Carolina) (*20*)	0.99	0.98				R
Lake Superior air (*20*)	1.09	0.87	1.99			R
Lake Ontario air (*20*)	1.03	0.91	1.86			R
Alabama soil (*20*)	1.13	0.92	2.71			R
Cornbelt soil (*20*)	1.19	0.71	2.69			R
Lake Erie air (*21*)	1.03	0.87				R
Lake Huron air (*21*)	1.06-1.07	0.86-0.87				R
Lake Superior air (*21*)	1.08-1.12	0.85-0.89				R
Lake Superior water (*21*)		0.89-0.93				R
Lake Erie water (*21*)		0.90				R
Harbour seal blubber (Iceland) (*22, 23*)					0.7	R
Harbour seal blubber (Iceland) (*22, 23*)					0.7	R
Harbour seal blubber (Iceland) (*22, 23*)					0.8	R
Harbour seal blubber (Iceland) (*22, 23*)					0.6	R
Harbour seal blubber (Iceland) (*22, 23*)					0.7	R
Harbour seal blubber (Iceland) (*22, 23*)					0.7	R
Harbour seal blubber (Iceland) (*22, 23*)					0.6	R
Harbour seal blubber (Iceland) (*22, 23*)					0.9	R
Grey seal blubber (Iceland) (*22, 23*)					1.6	R
Grey seal blubber (Iceland) (*22, 23*)					1.5	R

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Grey seal blubber (Iceland) (*22, 23*)					1.4	R
Grey seal blubber (Iceland) (*22, 23*)					1.2	R
Grey seal blubber (Iceland) (*22, 23*)					1.1	R
Grey seal blubber (Iceland) (*22, 23*)					1.1	R
Grey seal blubber (Iceland) (*22, 23*)					1.4	R
Grey seal blubber (Iceland) (*22, 23*)					1.5	R
Near Lake Superior air (*11*)	1.01 ± 0.03	0.88 ± 0.02	2.10 ± 0.10			R
Near Lake Michigan air (*11*)	1.02 ± 0.03	0.83 ± 0.02	2.00 ± 0.10			R
Near Lake Erie air (*11*)	1.12 ± 0.03	0.93 ± 0.01	2.00 ± 0.03			R
Air above soil (cornbelt) (*24, 25*)	1.11 ± 0.08	0.74 ± 0.10				R
Ambient air (cornbelt) (*24, 25*)	1.04 ± 0.04	0.93 ± 0.03				R
Indoor air (cornbelt) (*24, 25*)	0.98 ± 0.03	0.99 ± 0.01				R
Ambient air (Alabama) (*24, 25*)	1.01 ± 0.04	0.98 ±0.03				R
Ambient air (S. Carolina) (*24, 25*)	1.02 ± 0.01	1.00 ± 0.01				R
Indoor air (AL & SC) (*24, 25*)	1.00 ± 0.01	0.98 ± 0.01				R
Lake Ontario air (*24, 25*)	1.03 ± 0.02	0.92 ± 0.02				R
Cornbelt soil (*24, 25*)	1.21 ± 0.14	0.70 ± 0.12				R
Alabama soil (*24, 25*)	1.11 ± 0.10	0.91 ± 0.05				R
Barents Sea cod muscle (*26*)	0.71	0.54				R
Barents Sea cod muscle (*26*)	0.83	0.73				R
Barents Sea cod muscle (*26*)	0.91	0.46				R
Barents Sea cod muscle (*26*)	1.14	1.9				R
Barents Sea cod muscle (*26*)	1.0	1.1				R
Barents Sea cod gonad (*26*)	0.77	0.68				R
Barents Sea cod gonad (*26*)	1.0	0.77				R
Barents Sea cod gonad (*26*)	1.1	0.62				R
Barents Sea cod gonad (*26*)	1.1	2.0				R
Barents Sea cod gonad (*26*)	1.0	1.1				R
Barents Sea cod liver (*26*)	0.71	0.54				R
Barents Sea cod liver (*26*)	0.83	0.62				R
Barents Sea cod liver (*26*)	0.91	0.41				R

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Barents Sea cod liver (*26*)	1.2	2.2				R
Barents Sea cod liver (*26*)	1.06	1.2				R
Utklippan whole herring (*26*)	1.1	0.48				R
Utklippan whole herring (*26*)	1.2	0.20				R
Utklippan whole herring (*26*)	1.2	0.27				R
Landsort whole herring (*26*)	1.3	0.58				R
Landsort whole herring (*26*)	1.5	0.47				R
Landsort whole herring (*26*)	1.2	0.36				R
Haftjärden whole herring (*26*)	1.2	0.35				R
Haftjärden whole herring (*26*)	1.6	0.27				R
Haftjärden whole herring (*26*)	1.6	0.32				R
Ambient air (Columbia, SC) (*27*)			1.51 ± 0.09	0.99-1.02		R
Ambient air (Muscle Shoals, AL) (*27*)			1.70 ± 0.18	0.98 ± 0.02		R
Ambient air (Point Petre, Lake Ontario) (*27*)			1.86 ± 0.05	1.01 ± 0.05		R
Ambient air (Lake Superior) (*27*)			2.02 ± 0.10			R
Dovekie liver (Northwater polynya 1999) (*28*)			0.68		0.52	F
Black guillemot liver (Northwater polynya 1999) (*28*)			0.51		0.57	F
Black-legged Kittiwake liver (Northwater polynya 1999) (*28*)			0.68		0.68	F
Northern fulmar liver (Northwater polynya 1999) (*28*)			0.53		0.64	F
Ivory gull liver (Northwater polynya 1999) (*28*)			0.59		0.60	F
Glaucous gull liver (Northwater polynya 1999) (*28*)			0.60		0.63	F
Indoor air (PA1) (*29*)		0.50				F
Indoor air (PA3) (*29*)	0.49	0.50				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Indoor air (OH1) (*29*)	0.50	0.50				F
Indoor air (OH2) (*29*)	0.50	0.49				F
Indoor air (OH3) (*29*)	0.50	0.50				F
Indoor air (OH4) (*29*)	0.49	0.50				F
Indoor air (OH5) (*29*)	0.50	0.50				F
Indoor air (OH7) (*29*)	0.50	0.50				F
Indoor air (OH8) (*29*)	0.50	0.50				F
Indoor air (IN1) (*29*)	0.505	0.50				F
Indoor air (IN2) (*29*)	0.49	0.49				F
Indoor air (IN3) (*29*)	0.49	0.495				F
Indoor air (IN4) (*29*)	0.50	0.505				F
Indoor air (IN5) (*29*)	0.50	0.50				F
Indoor air (IN6) (*29*)	0.50	0.495				F
Indoor air (IN7) (*29*)	0.50	0.485				F
Indoor air (IN8) (*29*)	0.50	0.50				F
Indoor air (IL1) (*29*)	0.49	0.50				F
Indoor air (IL2) (*29*)	0.50	0.495				F
Indoor air (IL3) (*29*)	0.495	0.505				F
Indoor air (IL4) (*29*)	0.505	0.50				F
Indoor air (IL5) (*29*)	0.50	0.50				F
Arctic cod (Resolute Bay) (*30*)	0.49	0.49	0.59		0.58	F
Arctic cod (Resolute Bay) (*30*)	0.49	0.50	0.55		0.55	F
Ringed seal blubber (Resolute Bay) (*30*)	0.75	0.35	0.41		0.58	F
Polar bear fat (Resolute Bay) (*30*)	0.78	0.91	0.68		0.62	F
Polar bear liver (Resolute Bay) (*30*)	0.56	0.76	0.77		0.57	F
Male cod liver (Barents Sea) (*31*)	1.19 ± 0.09	1.33 ± 0.39	1.52 ± 0.13		1.04 ± 0.21	R
Female cod liver (Barents Sea) (*31*)	0.81 ± 0.07	0.63 ± 0.16	1.81 ± 0.79		1.26 ± 0.41	R
Dovekie liver (Northwater polynya	0.37 ± 0.11		0.63 ± 0.03		0.54 ±	F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
1998) (*32*)					0.01	
Black guillemot liver (Northwater polynya 1998) (*32*)	0.30		0.54 ± 0.01		0.56 ± 0.02	F
Black-legged Kittiwake liver (Northwater polynya 1998) (*32*)	0.16 ± 0.01		0.69 ± 0.01		0.66 ± 0.01	F
Northern fulmar liver (Northwater polynya 1998) (*32*)	0.69 ± 0.12		0.57 ± 0.02		0.61 ± 0.01	F
Ivory gull liver (Northwater polynya 1998) (*32*)	0.29 ± 0.03		0.60 ± 0.01		0.60 ± 0.01	F
Glaucous gull liver (Northwater polynya 1998) (*32*)	0.30 ± 0.04		0.62 ± 0.01		0.63 ± 0.01	F
Thick-billed murre liver (Northwater polynya 1998) (*32*)	0.25 ± 0.02		0.77 ± 0.03		0.67 ± 0.03	F
Dovekie fat (Northwater polynya 1998) (*32*)	0.19 ± 0.01	0.35 ± 0.05	0.56 ± 0.01		0.55 ± 0.02	F
Black guillemot fat (Northwater polynya 1998) (*32*)	0.25 ± 0.01	0.23 ± 0.05	0.61 ± 0.05		0.56 ± 0.01	F
Black-legged Kittiwake fat (Northwater polynya 1998) (*32*)	0.27 ± 0.02	0.40 ± 0.07	0.62 ± 0.01		0.60 ± 0.01	F
Northern fulmar fat (Northwater polynya 1998) (*32*)	0.53 ± 0.01	0.22 ± 0.05	0.61 ± 0.05		0.61 ± 0.05	F
Ivory gull fat (Northwater polynya 1998) (*32*)	0.22 ± 0.04	0.22 ± 0.02	0.61 ± 0.08		0.64 ± 0.05	F
Glaucous gull fat (Northwater polynya 1998) (*32*)	0.26 ± 0.04	0.23 ± 0.04	0.61 ± 0.07		0.65 ± 0.03	F
Thick-billed murre fat (Northwater polynya 1998) (*32*)	0.34 ± 0.02	0.33 ± 0.05	0.80 ± 0.02		0.71 ± 0.02	F
House foundation soil (CT) (*7*)	1.02 ± 0.01	0.98 ± 0.02				R
Farm soils (CT) (*7*)	1.03 ± 0.01	1.00 ± 0.02				R
Farm soils (CT) (*7*)	1.18 ± 0.02	0.87 ± 0.02				R
Farm soils (CT) (*7*)	1.21 ± 0.06	0.69 ±0.06				R
Experimental plot untilled soil (CT)	1.16 ± 0.07	0.86 ± 0.05				R

Sample type	CC	TC	HEPX	HEPT	OXY	Type
(*7*)						
Experimental plot tilled soil (CT) (*7*)	1.20 ± 0.04	0.83 ± 0.03				R
Alabama ambient air (*33*)	1.00 ± 0.04	0.97 ± 0.02	1.77 ± 0.02		1.08 ± 0.08	R
Muscle Shoals indoor air (*33*)	1.00 ± 0.01	0.98 ± 0.01				R
Alabama soil (*33*)	1.12 ± 0.09	0.92 ± 0.05	2.7-3.4		1.17-1.51	R
Midwestern soils (*33*)			1.17-7.27		0.67-1.73	R
British Columbia soils (*33*)					0.58-0.85	R
Zucchini bulk soil experimental plot (CT) or greenhouse(*6*)	0.56	0.43				F
Zucchini bulk soil experimental plot (CT) or greenhouse(*6*)	0.55	0.42				F
Zucchini roots (*6*)	0.55	0.42				F
Zucchini roots (*6*)	0.54	0.54				F
Zucchini stems (*6*)	0.58	0.36				F
Zucchini stems (*6*)	0.54	0.46				F
Zucchini leaves (*6*)	0.58	0.47				F
Zucchini leaves (*6*)	0.57	0.46				F
Zucchini whole fruit (*6*)	0.60	0.46				F
Zucchini whole fruit (*6*)	0.64	0.44				F
Zucchini fruit peel (*6*)	0.59	0.40				F
Zucchini fruit peel (*6*)	0.62	0.44				F
Zucchini fruit flesh (*6*)	0.62	0.48				F
Zucchini fruit flesh (*6*)	0.65	0.44				F
Pumpkin bulk soil (*6*)	0.54	0.45				F
Pumpkin roots (*6*)	0.51	0.51				F
Pumpkin stems (*6*)	0.46	0.49				F
Pumpkin leaves (*6*)	0.54	0.48				F
Pumpkin whole fruit (*6*)	0.56	0.47				F
Pumpkin fruit peel (*6*)	0.55	0.47				F
Pumpkin fruit flesh (*6*)	0.56	0.47				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Cucumber bulk soil (*6*)	0.57	0.44				F
Cucumber roots (*6*)	0.54	0.42				F
Cucumber stems (*6*)	0.52	0.38				F
Cucumber leaves (*6*)	0.52	0.37				F
Cucumber whole fruit (*6*)	0.51	0.25				F
Cucumber fruit peel (*6*)	0.48	0.30				F
Cucumber fruit flesh (*6*)	0.50	0.22				F
Lettuce bulk soil (*6*)	0.55	0.44				F
Lettuce bulk soil (*6*)	0.54	0.45				F
Lettuce roots (*6*)	0.55	0.46				F
Lettuce roots (*6*)	0.52	0.46				F
Lettuce leaves (*6*)	0.54	0.41				F
Lettuce leaves (*6*)	0.53	0.41				F
Spinach bulk soil (*6*)	0.53	0.46				F
Spinach bulk soil (*6*)	0.54	0.45				F
Spinach roots (*6*)	0.53	0.46				F
Spinach roots (*6*)	0.53	0.46				F
Spinach leaves (*6*)	0.58	0.45				F
Spinach leaves (*6*)	0.60	0.44				F
Pepper bulk soil (*6*)	0.55	0.44				F
Pepper roots (*6*)	0.55	0.48				F
Pepper stems (*6*)	0.56	0.54				F
Pepper leaves (*6*)	0.52	0.51				F
Tomato bulk soil (*6*)	0.54	0.45				F
Tomato roots (*6*)	0.55	0.37				F
Tomato stems (*6*)	0.59	0.30				F
Tomato leaves (*6*)	0.52	0.30				F
Air 0.6m above soil w/ vegetation (*6*)	0.53	0.46				F
Air 1.2m above soil w/ vegetation (*6*)	0.52	0.465				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Air 2.4m above soil w/ vegetation (*6*)	0.52	0.475				F
Bulk air near vegetation (*6*)	0.51	0.48				F
Alert, Canada air Jul 1993 (*34*)	0.508	0.451	0.677			F
Alert, Canada air Jan 1994 (*34*)	0.508	0.480				F
Alert, Canada air Jan 1994 (*34*)	0.501	0.475				F
Alert, Canada air Jan/Feb 1994 (*34*)		0.483				F
Alert, Canada air Feb 1994 (*34*)	0.507	0.475				F
Alert, Canada air Feb/Mar 1994 (*34*)	0.489	0.466				F
Alert, Canada air Mar/Apr 1994 (*34*)	0.506	0.483				F
Alert, Canada air Apr 1994 (*34*)	0.507	0.479				F
Alert, Canada air May/Jun 1994 (*34*)	0.504	0.476	0.792			F
Alert, Canada air Jun/Jul 1994 (*34*)	0.507	0.466				F
Alert, Canada air Jul/Aug 1994 (*34*)	0.511	0.472	0.674			F
Alert, Canada air Aug/Sep 1994 (*34*)	0.505	0.451				F
Alert, Canada air Sep/Oct 1994 (*34*)	0.504	0.452	0.669			F
Alert, Canada air Oct/Nov 1994(*34*)	0.504	0.477				F
Alert, Canada air Nov/Dec 1994 (*34*)	0.500	0.468				F
Alert, Canada air Dec 1994 (*34*)	0.501	0.473				F
Alert, Canada air Jan 1995 (*34*)	0.500	0.484				F
Alert, Canada air May 1996 (*34*)	0.505	0.479				F
Alert, Canada air Jul 1996 (*34*)	0.506	0.453				F
Pallas, Finland air Jan 1998 (*34*)	0.502	0.481				F
Pallas, Finland air Feb 1998 (*34*)	0.502	0.487				F
Pallas, Finland air Mar 1998 (*34*)	0.500	0.477				F
Pallas, Finland air Apr 1998 (*34*)	0.509	0.470	0.681			F
Pallas, Finland air May 1998 (*34*)	0.508	0.482	0.665			F
Pallas, Finland air Jun 1998 (*34*)	0.512	0.476	0.658			F
Pallas, Finland air Jul 1998 (*34*)	0.515	0.480	0.666			F
Pallas, Finland air Aug 1998 (*34*)	0.501	0.475	0.677			F
Pallas, Finland air Sep 1998 (*34*)			0.652			F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Pallas, Finland air Oct 1998 (*34*)	0.508	0.466	0.694			F
Pallas, Finland air Nov 1998 (*34*)	0.511	0.471				F
Pallas, Finland air Dec 1998 (*34*)	0.505	0.481				
Dunai, Russia air Jan/Feb 1994 (*34*)	0.502	0.454				F
Dunai, Russia air Feb/Mar 1994 (*34*)	0.510	0.483	0.680			F
Dunai, Russia air Mar/Apr 1994 (*34*)	0.501	0.477	0.652			F
Dunai, Russia air Apr/May 1994 (*34*)	0.504	0.477				F
Dunai, Russia air May/Jun 1994 (*34*)	0.500	0.480				F
Dunai, Russia air Aug/Sep 1994 (*34*)	0.504	0.471				F
Dunai, Russia air Oct/Nov 1994 (*34*)	0.509	0.466	0.653			F
Dunai, Russia air Nov/Dec 1994 (*34*)	0.506	0.474				F
Dunai, Russia air Dec 1994 (*34*)	0.504	0.465				F
Dunai, Russia air Jan 1995 (*34*)	0.494	0.466				F
Rörvik, Sweden air Jan 1998 (*34*)			0.683			F
Rörvik, Sweden air Feb 1998 (*34*)	0.514	0.451	0.706			F
Rörvik, Sweden air Mar 1998 (*34*)	0.507	0.473	0.667			F
Rörvik, Sweden air Apr 1998 (*34*)	0.516	0.437	0.722			F
Rörvik, Sweden air May 1998 (*34*)	0.509	0.479	0.693			F
Rörvik, Sweden air Jun 1998 (*34*)	0.518	0.473	0.703			F
Rörvik, Sweden air Jul 1998 (*34*)	0.503	0.458				F
Rörvik, Sweden air Aug 1998 (*34*)	0.504	0.478				F
Rörvik, Sweden air Sep 1998 (*34*)	0.517	0.461				F
Rörvik, Sweden air Oct 1998 (*34*)	0.515	0.464				F
Rörvik, Sweden air Nov 1998 (*34*)	0.506	0.465				F
Rörvik, Sweden air Dec 1998 (*34*)	0.513	0.451				
Hawaiian soil (*34-36*)	0.49-0.53	0.44-0.49	0.53-0.57		0.52-0.65	F
Luddington, UK soil (*34, 35*)	0.52-0.57	0.40-0.46				F
Air above soil (*34*)	0.526	0.423	0.699			F
Pre-bulk soil (*37*)	1.22	0.861				R
Post- bulk soil (*37*)	1.25	0.872				R
Near root soil (*37*)	1.24	0.852				R

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Rhizosphere soil (*37*)	1.23	0.863				R
Zucchini root (*37*)	1.18	1.19				R
Zucchini stem (*37*)	1.17	0.87				R
Zucchini leaf (*37*)	1.32	0.839				R
Zucchini whole fruit (*37*)	1.77	0.771				R
Zucchini peel (*37*)	1.62	0.797				R
Zucchini flesh (*37*)	1.83	0.775				R
Seawater (*38*)	0.50		0.50			F
Calanus spp. zooplankton (*38*)	0.48 ± 0.02	0.48 ± 0.02	0.52 ± 0.02		0.51 ± 0.01	F
Bowhead whale liver (*38*)	0.50	0.50	0.50		0.50	F
Bowhead whale blubber (*38*)	0.09 ± 0.03	0.70 ± 0.06	0.64 ± 0.01		0.59 ± 0.02	F
Arctic char whole (*38*)	0.50 ± 0.01	0.52 ± 0.02	0.52 ± 0.02		0.52 ± 0.05	F
Arctic cod whole(*38*)	0.47 ± 0.01	0.53 ± 0.03	0.53 ± 0.04		0.52 ± 0.04	F
Beluga whale blubber (*38*)	0.10 ± 0.02	0.64 ± 0.04	0.65 ± 0.01		0.75 ± 0.02	F
Bearded seal blubber (*38*)	0.64 ± 0.08	0.35 ± 0.02	0.38 ± 0.04		0.39 ± 0.02	F
Ringed seal blubber (*38*)	0.62 ± 0.16	0.42 ± 0.08	0.42 ± 0.07		0.63 ± 0.07	F
Experimental plot soil (*39*)	0.538 ± 0.004	0.465 ± 0.004				F
Air above plot soil 0.5m (*39*)	0.533 ± 0.015	0.465 ± 0.007				F
Air above plot soil 1.5m (*39*)	0.527 ± 0.014	0.474 ± 0.008				F
Air above plot soil 2.5m (*39*)	0.515 ± 0.018	0.482 ± 0.009				F
Bulk air 25m from plot (*39*)	0.517 ± 0.010	0.489 ± 0.008				F
Lockwood farm air (*39*)	0.515 ± 0.013	0.491 ± 0.012				F
Waterbury urban air (*39*)	0.513 ± 0.012	0.495 ± 0.009				F
Burlington rural air (*39*)	0.507 ± 0.005	0.489 ± 0.004				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
CT house foundation soil (*39*)	0.500 ± 0.004	0.500 ± 0.006				F
CT residential soil (*39*)	0.527 ± 0.022	0.467 ± 0.028				F
CT farm soil (*39*) same samples as previously, but in EF this time	0.504 ± 0.002 0.538 ± 0.004 0.545 ± 0.011	0.502 ± 0.006 0.467 ± 0.004 0.405 ± 0.020				F
Agricultural soil Sweden 2001 (*40, 41*)	0.538-0.588	0.397 ± 0.010				F
Nonagricultural soil Sweden 2001 (*40, 41*)	0.532 ± 0.048	0.427 ± 0.017				F
Atmospheric dep. Sweden 1971-73 (*40, 41*)	0.502 ± 0.001	0.496 ± 0.002				F
Atmospheric dep. Iceland 1971-73 (*40, 41*)	0.496 ± 0.001	0.497 ± 0.004				F
Atmospheric dep. Slovakia 1971-73 (*40, 41*)	0.500-0.501	0.495-0.499				F
Rörvik, Sweden air 2001 (*41*)	0.514±0.0071	0.454±0.0260				F
Pallas, Finland air 2001 (*41*)	0.510±0.0042	0.471±0.0120				F
Alert, Canada air 1999 (*41*)	0.507±0.0043	0.470±0.0090				F
Rörvik, Sweden air 1998 (*41*)	0.511±0.0054	0.463±0.0130				F
Pallas, Finland air 1998 (*41*)	0.507±0.0050	0.477±0.0061				F
Dunai, Russia air 1994-5 (*41*)	0.503±0.0046	0.471±0.0087				F
Alert, Canada air 1993-6 (*41*)	0.504±0.0048	0.471±0.0110				F
Grassland soil Sweden 2001 (*41*)	0.522±0.0490	0.427±0.0192				F
Forrest soil Sweden 2001 (*41*)	0.572	0.427				F
Lake DV-09 sediment 1943 (*4, 41*)		0.494				F
Lake DV-09 sediment 1949 (*4, 41*)		0.492				F
Lake DV-09 sediment 1953 (*4, 41*)		0.494				F
Lake DV-09 sediment 1956 (*4, 41*)		0.495				F
Lake DV-09 sediment 1961 (*4, 41*)		0.479				F
Lake DV-09 sediment 1970 (*4, 41*)		0.476				F
Lake DV-09 sediment 1980 (*4, 41*)		0.479				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Lake DV-09 sediment 1987 (*4*, *41*)		0.465				F
Lake DV-09 sediment 1992 (*4*, *41*)		0.473				F
Lake DV-09 sediment 1997 (*4*, *41*)		0.466				F
Soil British Columbia (*41*)	0.504	0.454				F
Luddington soil 1968 (*42*)	0.521	0.465				F
Luddington sludge (*42*)	0.498 ±0.002	0.481 ±0.003				F
Luddington untreated soil 1972 (*42*)	0.535	0.429				F
Luddington untreated soil 1976 (*42*)	0.555	0.421				F
Luddington untreated soil 1981 (*42*)	0.518	0.464				F
Luddington untreated soil 1985 (*42*)	0.537	0.444				F
Luddington untreated soil 1990 (*42*)	0.561	0.427				F
Luddington sludge treated soil 1972 (*42*)	0.528	0.434				F
Luddington sludge treated soil 1976 (*42*)	0.533	0.437				F
Luddington sludge treated soil 1981 (*42*)	0.525	0.435				F
Luddington sludge treated soil 1985 (*42*)	0.539	0.430				F
Luddington sludge treated soil 1990 (*42*)	0.573 ± 0.005	0.395 ± 0.003				F
Dosed juvenile common carp whole 0-1200 hrs (*43*)	0.969-1.038	1.0-0.68				R 1,2
Wild mature carp (*43*)	0.90 ± 0.12	0.43				R 1,2
Indiana air (*44*)	0.528 ± 0.006	0.478 ± 0.004	0.675 ±0.008			F
Arkansas air (*44*)	0.526 ± 0.009	0.464 ± 0.005	0.632 ± 0.016			F
Louisiana air (*44*)	0.508 ± 0.010	0.484 ± 0.008				F
Long Island Sound LIHR recent and archived surf. sediment (*45*)	0.493 ± 0.011 0.498 ± 0.024	0.502 ± 0.007 0.491 ± 0.020				F
Long Island Sound recent and archived surf. sediment LIHH (*45*)	0.506 ± 0.024 0.495 ± 0.016	0.495 ± 0.020 0.498 ±0.008				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Long Island Sound recent and archived surf. sediment LITN (*45*)	0.498 ±0.022 0.489 ± 0.021	0.491 ± 0.009 0.500 ± 0.014				F
Long Island Sound recent and archived surf. sediment LICR (*45*)	0.490 ± 0.022 0.475 ± 0.021	0.485 ± 0.031 0.495 ± 0.014				F
Long Island Sound recent and archived surf. sediment LIPJ (*45*)	0.498 ± 0.020 0.498 ± 0.016	0.482 ±0.016 0.497 ± 0.014				F
Long Island Sound recent and archived surf. sediment LISI (*45*)	0.489 ± 0.012	0.503 ± 0.025				F
Long Island Sound recent and archived surf. sediment LIMR (*45*)	0.499 ± 0.017	0.483 ± 0.028				F
Long Island Sound recent and archived surf. sediment LIHU (*45*)	0.501 ± 0.008	0.497 ± 0.014				F
Long Island Sound recent and archived surf. sediment LILN (*45*)	0.513 ± 0.019	0.493 ± 0.017				F
Long Island Sound recent and archived surf. sediment LIMB (*45*)	0.490 ± 0.015	0.491 ± 0.014				F
Long Island Sound cored sediment LIHH 0.6 cm (*45*)	0.504 ± 0.019	0.497 ± 0.017				F
Long Island Sound cored sediment LIHH 5.0 cm (*45*)	0.500 ± 0.016	0.487 ± 0.011				F
Long Island Sound cored sediment LIHH 10.5 cm (*45*)	0.495 ± 0.023	0.491 ± 0.028				F
Long Island Sound cored sediment LIHH 16.1 cm (*45*)	0.498 ± 0.020	0.506 ± 0.021				F
Long Island Sound cored sediment LIHH 21.6 cm (*45*)	0.496 ± 0.018	0.503 ± 0.020				F
Long Island Sound cored sediment LIHH 27.1 cm (*45*)	0.503 ± 0.010	0.490 ± 0.020				F
Long Island Sound cored sediment LIHH 32.7 cm (*45*)	0.509 ± 0.009	0.492 ± 0.005				F
Long Island Sound cored sediment LIHH 39.3 cm (*45*)	0.491 ± 0.018	0.493 ± 0.009				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Long Island Sound cored sediment LILN 0.6 cm (*45*)	0.505 ± 0.013	0.491 ± 0.018				F
Long Island Sound cored sediment LILN 6.1 cm (*45*)	0.505 ± 0.012	0.495 ± 0.010				F
Long Island Sound cored sediment LILN 11.6 cm (*45*)	0.500 ± 0.016	0.491 ± 0.011				F
Long Island Sound cored sediment LILN 17.2 cm (*45*)	0.514 ± 0.021	0.493 ± 0.018				F
Long Island Sound cored sediment LILN 22.7 cm (*45*)	0.505 ± 0.007	0.504 ± 0.012				F
Long Island Sound cored sediment LILN 28.3 cm (*45*)	0.505 ± 0.009	0.497 ± 0.005				F
Long Island Sound cored sediment LILN 33.8 cm (*45*)	0.508 ± 0.010	0.494 ± 0.013				F
Long Island Sound cored sediment LILN 39.4 cm (*45*)	0.501 ± 0.016	0.498 ± 0.011				F
Long Island Sound cored sediment LILN 44.9 cm (*45*)	0.497 ± 0.018	0.489 ± 0.015				F
Long Island Sound cored sediment LILN 50.4 cm (*45*)	0.511 ± 0.011	0.498 ± 0.013				F
Long Island Sound cored sediment LIMB 0.6 cm (*45*)	0.499 ± 0.013	0.491 ± 0.017				F
Long Island Sound cored sediment LIMB 6.1 cm (*45*)	0.500 ± 0.020	0.496 ± 0.008				F
Long Island Sound cored sediment LIMB 11.6 cm (*45*)	0.494 ± 0.013	0.497 ± 0.006				F
Long Island Sound cored sediment LIMB 17.2 cm (*45*)	0.503 ± 0.013	0.486 ± 0.010				F
Long Island Sound cored sediment LIMB 22.7 cm (*45*)	0.501 ± 0.014	0.485 ± 0.010				F
Long Island Sound cored sediment LIMB 28.3 cm (*45*)	0.500 ± 0.009	0.488 ± 0.006				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Long Island Sound cored sediment LIMB 33.8 cm (*45*)	0.504 ± 0.007	0.491 ± 0.003				F
Long Island Sound cored sediment LIMB 39.4 cm (*45*)	0.488 ± 0.007	0.493 ± 0.009				F
Long Island Sound cored sediment LIMB 44.9 cm (*45*)	0.501 ± 0.015	0.489 ± 0.013				F
Long Island Sound cored sediment LIMB 50.4 cm (*45*)	0.492 ± 0.039	0.494 ± 0.025				F
Long Island Sound cored sediment LITN 1.8 cm (*45*)	0.494 ± 0.011	0.490 ± 0.010				F
Long Island Sound cored sediment LITN 6.4 cm (*45*)	0.502 ± 0.014	0.487 ± 0.008				F
Long Island Sound cored sediment LITN 12.3 cm (*45*)	0.490 ± 0.014	0.493 ± 0.011				F
Long Island Sound cored sediment LITN 18.1 cm (*45*)	0.495 ± 0.020	0.495 ± 0.016				F
Long Island Sound cored sediment LITN 23.9 cm (*45*)	0.501 ± 0.013	0.492 ± 0.019				F
Long Island Sound cored sediment LITN 29.8 cm (*45*)	0.501 ± 0.018	0.495 ± 0.010				F
Long Island Sound cored sediment LITN 35.6 cm (*45*)	0.501 ± 0.014	0.493 ± 0.007				F
Air by PAS Burnt Island (*46*)	0.514 ± 0.003	0.469 ± 0.006				F
Air by PAS Burlington (*46*)	0.517 ± 0.007	0.472 ± 0.005				F
Air by PAS Chicago (*46*)	0.510 ± 0.004	0.485 ± 0.002				F
Air by PAS Downsview (*46*)	0.515 ± 0.002	0.477 ± 0.008				F
Air by PAS Egbert (*46*)	0.516 ± 0.002	0.473 ± 0.009				F
Air by PAS Eagle Harbor (*46*)	0.509 ± 0.004	0.467 ± 0.006				F
Air by PAS Toronto (*46*)	0.507 ± 0.001	0.490 ± 0.003				F
Air by PAS Grand Bend (*46*)	0.516 ± 0.002	0.458 ± 0.014				F
Air by PAS Pt. Petre (*46*)	0.512 ± 0.001	0.472 ± 0.004				F
Air by PAS Pt. Pelee (*46*)	0.510 ± 0.003	0.477 ± 0.008				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Air by PAS Rock Point (*46*)	0.513 ± 0.005	0.473 ± 0.008				F
Air by PAS Sleeping Bear Dunes (*46*)	0.512 ± 0.001	0.466 ± 0.004				F
Air by PAS St. Clair (*46*)	0.512 ± 0.010	0.470 ± 0.017				F
Air by PAS Sturgeon Pt. (*46*)	0.513 ± 0.003	0.478 ± 0.007				F
Air by PAS Trent Univ. (*46*)	0.512 ± 0.004	0.475 ± 0.002				F
Grassland soil 6-2-04 (*47*)	0.443	0.496				F
Grassland soil 2 (*47*)	0.440	0.479				F
Grassland soil 3 (*47*)		0.481				F
Grassland soil 4 (*47*)	0.447	0.491				F
Grassland soil 5 (*47*)	0.406	0.507				F
Grassland soil 5 surf (*47*)	0.506	0.426				F
Grassland soil 5 btm(*47*)	0.431	0.511				F
Grassland soil 6 (*47*)	0.425	0.483				F
Grassland soil 7 (*47*)	0.485	0.470				F
Grassland soil 8 (*47*)		0.463				F
Grassland soil 9 (*47*)		0.498				F
Grassland soil composite (*47*)	0.467	0.503				F
Woodland 1 soil 6-2-04 (*47*)	0.546	0.406				F
Woodland 1 soil 1 (*47*)	0.549	0.379				F
Woodland 1 soil 2 (*47*)	0.522	0.398				F
Woodland 1 soil 3 (*47*)	0.558	0.393				F
Woodland 1 soil 4 (*47*)						F
Woodland 1 soil 5 (*47*)	0.548	0.419				F
Woodland 1 soil 5 surf (*47*)		0.487				F
Woodland 1 soil 5 btm(*47*)	0.549	0.358				F
Woodland 1 soil 6 (*47*)	0.541	0.416				F
Woodland 1 soil 7 (*47*)						F
Woodland 1 soil 8 (*47*)	0.540	0.403				F
Woodland 1 soil 9 (*47*)	0.537	0.452				F
Woodland 1 soil composite (*47*)	0.542	0.439				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Woodland 2 soil 6-2-04 (*47*)	0.370	0.390				F
Woodland 2 soil 1 (*47*)						F
Woodland 2 soil 2 (*47*)	0.272	0.452				F
Woodland 2 soil 3 (*47*)	0.296	0.440				F
Woodland 2 soil 4 (*47*)	0.434	0.462				F
Woodland 2 soil 5 (*47*)	0.461	0.473				F
Woodland 2 soil 5 surf (*47*)	0.494	0.443				F
Woodland 2 soil 5 btm(*47*)	0.494	0.474				F
Woodland 2 soil 6 (*47*)	0.434	0.461				F
Woodland 2 soil 7 (*47*)	0.483	0.442				F
Woodland 2 soil 8 (*47*)	0.474	0.435				F
Woodland 2 soil 9 (*47*)	0.430	0.405				F
Woodland 2 soil composite (*47*)	0.456	0.453				F
Passive air samplers near Grass/woodland soils (*47*)	0.511 ± 0.001	0.476 ± 0.002				F
Alaska tundra soil PK300(*48*)	0.418	0.391				F
Antarctica nature reserve soil PK301 (*48*)		0.500				F
Australia woodland soil PK302 (*48*)	0.472	0.495				F
Australia grazing soil PK303	0.495	0.495				F
Australia forest soil PK304 (*48*)	0.464	0.599				F
Bolivia high desert soil PK305 (*48*)	0.411	0.508				F
Bolivia scrub soil PK306 (*48*)	0.614					F
Brazil soil PK308 (*48*)	0.518	0.457				F
Canada woodland soil PK311 (*48*)	0.523	0.358				F
Canada park soil PK312 (*48*)		0.421				F
Canada forest soil PK313 (*48*)	0.553	0.412				F
Canada agric/grass soil PK314 (*48*)	0.550	0.407				F
Canada old pasture soil PK315 (*48*)	0.541	0.444				F
Canada tundra soil PK316 (*48*)	0.514	0.466				F
Canada grassland soil PK317 (*48*)	0.498	0.382				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Canada pasture soil PK318 (*48*)	0.517	0.442				F
Chile park soil PK319 (*48*)	0.532	0.533				F
Cyprus scrub soil PK320 (*48*)	0.507	0.434				F
Ethiopia grassland soil PK321 (*48*)	0.450	0.450				F
France woodland soil PK322 (*48*)	0.417	0.371				F
Germany pasture soil PK323 (*48*)	0.521	0.443				F
Germany woodland soil PK324 (*48*)	0.494	0.384				F
Greenland icecap soil PK327 (*48*)	0.582					F
Hawaii rainforest soil PK328 (*48*)	0.528	0.486				F
Iceland soil PK329 (*48*)	0.344	0.413				F
Ireland grassland soil PK330 (*48*)	0.534	0.364				F
Japan woodland soil PK331 (*48*)	0.521	0.429				F
Japan soil PK332 (*48*)	0.492	0.504				F
Malaysia forest soil PK333 (*48*)	0.543	0.504				F
Norway woodland soil PK334 (*48*)		0.497				F
Norway grassland soil PK335 (*48*)	0.541	0.526				F
Norway grassland soil PK336 (*48*)	0.508	0.466				F
Norway woodland soil PK337 (*48*)	0.559	0.406				F
Norway heathland soil PK338 (*48*)	0.575	0.433				F
Peru agric. Soil PK339 (*48*)	0.479	0.436				F
Poland woodland soil PK340 (*48*)	0.560	0.392				F
Portugal woodland soil PK341 (*48*)	0.549	0.389				F
Scotland moorland soil PK342 (*48*)	0.459	0.488				F
S. Africa park soil PK343 (*48*)	0.566					F
S. Africa grassland soil PK344 (*48*)		0.505				F
Siberia soil PK345 (*48*)	0.505	0.471				F
Vietnam woodland soil PK346 (*48*)	0.482	0.506				F
Spain scrub soil PK347 (*48*)	0.482	0.454				F
Spain grassland soil PK348 (*48*)	0.562	0.397				F
Sri Lanka woodland soil PK349 (*48*)	0.502	0.503				F
Sweden clearing soil PK350 (*48*)	0.455	0.341				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Switzerland woodland soil PK351 (*48*)	0.846	0.616				F
Tenerife forest soil PK352 (*48*)	0.529	0.479				F
Tenerife uncult. soil PK353 (*48*)	0.534	0.453				F
Tenerife park soil PK354 (*48*)	0.572	0.487				F
Thailand woodland soil PK355 (*48*)		0.474				F
Turkey uncult. soil PK356 (*48*)	0.524	0.361				F
UK grassland soil PK357 (*48*)	0.563	0.482				F
Pakistan pasture soil PK358 (*48*)		0.464				F
UK woodland soil PK359 (*48*)	0.080	0.375				F
UK grassland soil PK360 (*48*)	0.312	0.577				F
USA park soil PK361 (*48*)	0.589	0.431				F
USA woodland soil PK362 (*48*)	0.470	0.482				F
USA forest soil PK363 (*48*)	0.550	0.559				F
Vietnam orchard soil PK364 (*48*)		0.489				F
Worldwide soils (*48*)	0.08-0.846	0.341-0.616				F
Human adipose tissue #1 (*49*)	0.18		1.3		1.5	R HEPX, OXY 1,2
Human adipose tissue #2 (*49*)	0.29		1.7		1.2	R HEPX, OXY 1,2
Human adipose tissue #3 (*49*)			1.3		1.3	R HEPX, OXY 1,2
Human adipose tissue #4 (*49*)	0.37		1.7		1.5	R HEPX, OXY 1,2
Human adipose tissue #5 (*49*)			1.5		1.1	R HEPX, OXY 1,2
Human adipose tissue #6 (*49*)	0.21		1.6		1.4	R

Sample type	CC	TC	HEPX	HEPT	OXY	Type
						HEPX, OXY 1,2
Human adipose tissue #7 (*49*)	<0.32		1.3		1.8	R HEPX, OXY 1,2
Human adipose tissue #8 (*49*)	<0.29		1.2		1.1	R HEPX, OXY 1,2
Human adipose tissue #9 (*49*)	<0.18				2.4	R HEPX, OXY 1,2
Human adipose tissue #10 (*49*)	<0.19		1.4		1.8	R HEPX, OXY 1,2
Human adipose tissue #11 (*49*)			1.5		1.6	R HEPX, OXY 1,2
Human adipose tissue #12 (*49*)			1.1		1.8	R HEPX, OXY 1,2
Human adipose tissue #13 (*49*)			1.5		1.6	R HEPX, OXY 1,2
Human adipose tissue #14 (*49*)			1.4		1.1	R HEPX, OXY 1,2
PAS air at Point Petre (*50*)	0.511 ± 0.005	0.473 ± 0.003				F
PAS air at Burnt Island (*50*)	0.510 ± 0.008	0.465 ± 0.003				F
PAS air at Bonavista (*50*)	0.509 ± 0.002	0.476 ± 0.003	0.656 ± 0.003			F
PAS air at Sable Island (*50*)	0.508 ± 0.004	0.479 ± 0.005				F
PAS air at Kejimkuijik (*50*)	0.510 ± 0.006	0.473 ± 0.005				F
PAS air at St. Leonard (*50*)	0.509 ± 0.006	0.480 ± 0.004				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
PAS air at Frelighsburg (*50*)	0.515 ± 0.003	0.482 ± 0.003	0.715 ± 0.004			F
PAS air at Pukaskwa (*50*)			0.703 ± 0.005			F
PAS air at McCreary (*50*)	0.532 ± 0.003	0.456 ± 0.001	0.737 ± 0.005			F
PAS air at Bratt's Lake (*50*)	0.534 ± 0.003	0.395 ± 0.002	0.805 ± 0.004			F
PAS air at Suffield (*50*)	0.521 ± 0.005	0.451 ± 0.007	0.714 ± 0.003			F
PAS air at Summerland (*50*)	0.516 ± 0.005	0.464 ± 0.004				F
PAS air at Saturna Island (*50*)	0.506 ± 0.008	0.483 ± 0.002				F
PAS air at Cape Dorset (*50*)	0.507 ± 0.002	0.470 ± 0.007				F
PAS air at Kuujjuarapik (*50*)	0.511 ± 0.007	0.475 ± 0.007				F
PAS air at Big Creek (*50*)	0.514 ± 0.003	0.472 ± 0.001	0707 ± 0.003			F
PAS air at Toronto (*50*)	0.507 ± 0.002	0.492 ± 0.003	0.692 ± 0.004			F
PAS air at Youngstown (*50*)	0.512 ± 0.001	0.485 ± 0.002	0.715 ± 0.005			F
PAS air at Solomon (*50*)	0.509 ± 0.002	0.492 ± 0.001	0.665 ± 0.002			F
PAS air at Wilmington (*50*)	0.507 ± 0.001	0.492 ± 0.001	0.621 ± 0.004			F
PAS air at Turkey Point (*50*)	0.516 ± 0.002	0.488 ± 0.001	0.677 ± 0.002			F
PAS air at Muscle Shoals (*50*)	0.512 ± 0.002	0.495 ± 0.008	0.644 ± 0.002			F
PAS air at Belmopan (*50*)	0.508 ± 0.001	0.498 ± 0.002				F
Air above soil 5 cm (*51*)			1.45	1.05		R
Air above soil 35 cm (*51*)			1.45	1.05		R
Air above soil 75 cm (*51*)			1.42	1.09		R
Air above soil 140 cm (*51*)			1.41	1.09		R
Soil below air (*51*)			1.39	1.03		R
Air 3 cm above soybean soil (*52*)	0.556 ± 0.007	0.407 ± 0.008				F
Air 150 cm above soybean soil (*52*)	0.524 ± 0.004	0.441 ± 0.010				F
Soybean soil below air (*52*)	0.557 ± 0.006	0.408 ± 0.008				F
Commercial organic compost mix (CP2) (*53*)	0.514	0.469				F
Commercial rich dark topsoil (CP5-b) (*53*)	0.520	0.480				F
Commercial organic humus (CP5-c) (*53*)	0.519	0.497				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Commercial all purpose potting soil (CP6-a) (*53*)	0.532	0.475				F
Commercial all purpose potting soil (CP6-b) (*53*)	0.537	0.491				F
Commercial Premium planting soil (CP6-c) (*53*)	0.500	0.455				F
Leaf compost-1998, 1999 (MUN1) (*53*)	0.540	0.506				F
Leaf compost- 2000 (MUN2-a) (*53*)	0.561	0.478				F
Topsoil + 30% leaf compost- 2000 (MUN2-b) (*53*)	0.541	0.468				F
Topsoil (MUN2-c) (*53*)	0.563	0.465				F
Leaf compost- 1999 screened (MUN3-a) (*53*)	0.516	0.494				F
Leaf compost- 1999 unscreened (MUN3-b) (*53*)	0.562	0.487				F
Leaf compost- 1999 unscreened (MUN4) (*53*)	0.539	0.487				F
Leaf compost- 1998 unscreened (MUN5-a) (*53*)	0.539	0.473				F
Leaf compost- 1999 unscreened (MUN5-b) (*53*)	0.549	0.450				F
Leaf compost- 1997 unscreened (MUN5-c) (*53*)	0.558	0.449				F
Leaf compost- 2000 (MUN6-a) (*53*)	0.524	0.488				F
Leaf compost- 1998 (MUN6-b) (*53*)	0.562	0.519				F
Leaf compost- 1997 (MUN7-a) (*53*)	0.564	0.494				F
Leaf compost- 1998 (MUN7-b) (*53*)	0.583	0.480				F
Leaf compost- 1999 (MUN7-c) (*53*)	0.541	0.472				F
Topsoil (MUN7-d) (*53*)	0.569					F
Leaf compost- 1999 (MUN8) (*53*)	0.539	0.484				F
Leaf compost- 2000 (MUN9) (*53*)	0.531	0.503				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Leaf compost- 1998 (MUN10-a) (*53*)	0.658					F
Leaf compost- 1997 (MUN10-b) (*53*)	0.561	0.486				F
Leaf compost- 1999 (MUN11-a) (*53*)	0.577	0.441				F
Leaf compost- 1999 + double ground wood chips (MUN11-b) (*53*)	0.592	0.475				F
Double ground wood chips (MUN11-c) (*53*)	0.513	0.475				F
Leaf compost- 2000 (MUN11-d) (*53*)	0.512	0.474				F
Topsoil (MUN11-e) (*53*)	0.550	0.513				F
Leaf compost- 1999 with road sweeping sand (MUN12-a) (*53*)	0.537	0.482				F
Leaf compost- 2000 (MUN12-b) (*53*)	0.537	0.480				F
Leaf compost- 2000 (MUN13-a) (*53*)	0.516	0.471				F
Leaf compost- 2000 + topsoil 1:1 (MUN13-b) (*53*)	0.512	0.475				F
Leaf compost- 1997, 1998 (MUN14-a) (*53*)	0.522	0.476				F
Leaf compost- 2000 (MUN14-b) (*53*)	0.514	0.482				F
Leaf compost- 1999 (MUN15-a) (*53*)	0.521	0.478				F
Yard waste compost- 1998 (MUN15-b) (*53*)	0.511	0.479				F
Leaf compost- 1999, screened (MUN16) (*53*)	0.524	0.489				F
Leaf compost- 1999, unscreened (MUN17-a) (*53*)	0.527	0.491				F
Leaf compost- 1998, 1999, unscreened (MUN17-b) (*53*)	0.532	0.476				F
Leaf compost- 2000?, screened	0.516	0.503				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
(MUN17) (*53*)						
Leaf compost- 1999 (MUN18) (*53*)	0.530	0.483				F
Leaf compost- 1999, unscreened (MUN19) (*53*)	0.575	0.484				F
Abdominal fat male SD rats exposed to oxychlor 28 days (*54*)					0.14 ± 0.03	F
Abdominal fat male SD rats exposed to oxychlor 28 days +28 day depletion (*54*)					0.02 ± 0.02	F
Abdominal fat male SD rats exposed to oxychlor 28 days +56 day depletion (*54*)					0	F
Abdominal fat male SD rats exposed to t-nonachlor 28 days (*54*)					0.34 ± 0.07	F
Abdominal fat male SD rats exposed to t-nonachlor 28 days +28 day depletion (*54*)					0.15 ± 0.12	F
Abdominal fat male SD rats exposed to t-nonachlor 28 days +56 day depletion (*54*)					0.12 ± 0.05	F
Abdominal fat male SD rats exposed to t-chlordane 28 days (*54*)		0.45 ± 0.01			0.36 ± 0.08	F
Abdominal fat male SD rats exposed to t- chlordane 28 days +28 day depletion (*54*)		0.35 ± 0.17			0.07 ± 0.03	F
Abdominal fat male SD rats exposed to t- chlordane 28 days +56 day depletion (*54*)		0			0.04 ± 0.03	F
Abdominal fat female SD rats exposed to oxychlor 28 days (*54*)					0.24 ± 0.07	F
Abdominal fat male SD rats exposed to oxychlor 28 days +28 day					0.03 ± 0.05	F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
depletion (*54*)						
Abdominal fat female SD rats exposed to oxychlor 28 days +56 day depletion (*54*)					0.10 ± 0.2	F
Abdominal fat female SD rats exposed to t-nonachlor 28 days (*54*)					0.59 ± 0.12	F
Abdominal fat female SD rats exposed to t-nonachlor 28 days +28 day depletion (*54*)					0.41 ± 0.18	F
Abdominal fat female SD rats exposed to t-nonachlor 28 days +56 day depletion (*54*)					0.35 ± 0.15	F
Abdominal fat female SD rats exposed to t-chlordane 28 days (*54*)		0.44 ± 0.01			0.55 ±0.10	F
Abdominal fat female SD rats exposed to t- chlordane 28 days +28 day depletion (*54*)		0.38 ± 0.19			0.25 ± 0.19	F
Abdominal fat female SD rats exposed to t- chlordane 28 days +56 day depletion (*54*)		0			0.30 ± 0.16	F
Liver male SD rats exposed to t-chlordane 28 days (*54*)		0.27 ± 0.02				F
Liver male SD rats exposed to t-chlordane 28 days +28 day depletion (*54*)		0				F
Liver male SD rats exposed to t-chlordane 28 days +56 day depletion (*54*)		0				F
Liver female SD rats exposed to t-chlordane 28 days (*54*)		0.28 ± 0.03				F
Liver female SD rats exposed to t-chlordane 28 days +28 day depletion		0.12 ± 0.19				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
(*54*)						
Liver female SD rats exposed to t-chlordane 28 days +56 day depletion (*54*)		0				F
Kidney male SD rats exposed to t-chlordane 28 days (*54*)		0.29 ± 0.01				F
Kidney male SD rats exposed to t-chlordane 28 days +28 day depletion (*54*)		0.19 ± 0.16				F
Kidney male SD rats exposed to t-chlordane 28 days +56 day depletion (*54*)		0				F
Kidney female SD rats exposed to t-chlordane 28 days (*54*)		0.43 ± 0.03				F
Kidney female SD rats exposed to t-chlordane 28 days +28 day depletion (*54*)		0				F
Kidney female SD rats exposed to t-chlordane 28 days +56 day depletion (*54*)		0.09 ± 0.23				F
Terra Nova Bay, Antarctic rockcod-2000-2002 (*55*)					0.61 ± 0.01	F
Edmonson Point rookery, Antarctic Adélie penguin egg 1995-6 (*55*)					0.62 ± 0.04	F
Manuel Antonio, Costa Rica air (*56*)	0.515	0.485 ± 0.004 (β-Dex) 0.491 (BGB)				F
Maritza, Costa Rica air (*56*)		0.489 (β-Dex) 0.500 ± 0.004 (BGB)				F
Cacao, Costa Rica air (*56*)	0.530	0.490 ± 0.008				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
		(β-Dex) 0.501 (BGB)				
Palo Verde, Costa Rica air (*56*)		0.484 ± 0.002 (β-Dex)				F
La Selva, Costa Rica air (*56*)	0.525 ± 0.006	0.498 (β-Dex) 0.499 ± 0.002 (BGB)				F
EARTH, Costa Rica air (*56*)	0.511 ± 0.008	0.494 (β-Dex) 0.496 ± 0.005 (BGB)				F
KeKöldi, Costa Rica air (*56*)		0.483 (β-Dex)				F
Belen, Costa Rica air (*56*)	0.508 ± 0.004	0.496 (β-Dex) 0.495 ± 0.001 (BGB)				F
Prusia, Costa Rica air (*56*)	0.490 ± 0.006	0.482 ± 0.001 (BGB)				F
Irazu, Costa Rica air (*56*)		0.468 (β-Dex)				F
Manuel Antonio, Costa Rica soil (*56*)		0.498 (β-Dex)				F
Belen, Costa Rica soil (*56*)		0.510 ± 0.017 (β-Dex) 0.514 ± 0.022 (BGB)				F
Prusia, Costa Rica soil (*56*)		0.482 ± 0.002 (β-Dex) 0.482 ± 0.002 (BGB)				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Air by PAS Baja California, Mexico (agriculture, Mexicali valley, 2005-6) (*57*)	0.507 ± 0.004	0.505 ± 0.007				F
Air by PAS Celestun, Mexico (rural, rooftop, 2005-6) (*57*)	0.508 ± 0.004	0.498 ± 0.002				F
Air by PAS Chihuahua, Mexico (urban, rooftop, 2005-6) (*57*)	0.512 ± 0.001	0.498 ± 0.002				F
Air by PAS Colima, Mexico (suburban, rooftop, 2005-6) (*57*)	0.511 ± 0.007	0.488 ± 0.002				F
Air by PAS Cordoba, Mexico (suburban, met stn, 2005-6) (*57*)	0.507 ± 0.008	0.489 ± 0.004				F
Air by PAS Cuernavaca, Mexico (suburban, lamppost, 2005-6) (*57*)	0.514 ± 0.002	0.482 ± 0.003				F
Air by PAS Mazatlan, Mexico (agriculture, rooftop, 2005-6) (*57*)	0.509 ± 0.002	0.483 ± 0.010				F
Air by PAS Mexico City, Mexico (urban, rooftop, 2005-6) (*57*)	0.508 ± 0.003	0.491 ± 0.002				F
Air by PAS Monterrey, Mexico (rural, post, 2005-6) (*57*)	0.511 ± 0.003	0.508 ± 0.003				F
Air by PAS San Luis Potosi, Mexico (urban, rooftop, 2005-6) (*57*)	0.508 ± 0.004	0.497 ± 0.002				F
Air by PAS/AS Tapachula, Mexico 2002-4 (*57*)	0.502 ± 0.004	0.498 ± 0.003				F
Air by PAS/AS Chiapas Mountain, Mexico 2002-4 (*57*)	0.503 ± 0.004	0.500 ± 0.002				F
Air by PAS/AS Veracruz, Mexico 2002-4 (*57*)	0.504 ± 0.002	0.497 ± 0.002				F
Air by PAS/AS Tabasco, Mexico 2002-4 (*57*)	0.503 ± 0.003	0.498 ± 0.003				F
Arctic air 2004 ark6 (*58*)		0.506				
Arctic air 2004 ark6 (*58*)	0.497	0.464				F
Arctic air 2004 ark9 (*58*)	0.500	0.441				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Arctic air 2004 ark10 (*58*)	0.493	0.463				F
Arctic air 2004 ark11 (*58*)	0.510					F
Arctic air 2004 ark12 (*58*)	0.498	0.475				F
Arctic air 2004 ark13 (*58*)	0.518	0.481				F
Arctic air 2004 ark15 (*58*)	0.496	0.484				F
Arctic air 2004 ark16 (*58*)	0.479	0.441				F
Arctic air 2004 ark18 (*58*)	0.513					F
Arctic air 2004 rg50 (*58*)	0.523	0.473				F
Arctic air 2004 rg55 (*58*)	0.534	0.451				F
Arctic air 2004 rg58 (*58*)	0.503	0.492				F
Arctic air 2004 rg61 (*58*)	0.498					F
Arctic air 2004 rg69 (*58*)		0.467				F
Arctic air 2004 rg71 (*58*)	0.497	0.477				F
Arctic surface water II (*58*)			0.65			F
Arctic surface water IV (*58*)			0.64			F
Arctic surface water V (*58*)	0.509		0.66			F
Arctic surface water VI (*58*)			0.64			F
Arctic surface water VII (*58*)	0.507					F
Arctic surface water VIII (*58*)	0.474					F
Arctic surface water X (*58*)	0.495		0.62			F
Arctic surface water XI (*58*)	0.504		0.64			F
Arctic surface water XII (*58*)	0.519					F
Arctic surface water XIII (*58*)	0.508					F
Arctic surface water XIV (*58*)	0.502		0.60			F
Arctic surface water XV (*58*)	0.493					F
Arctic surface water XVI (*58*)	0.496		0.60			F
Arctic surface water XVII (*58*)	0.487					F
Arctic surface water XVIII (*58*)	0.489					F
Arctic surface water XIX (*58*)	0.491					F
Arctic surface water XX (*58*)	0.501		0.63			F
Arctic surface water XXI (*58*)	0.485					F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Arctic surface water XXII (*58*)	0.495		0.64			F
Greenhouse H air (*59*)	0.500	0.507				F
Greenhouse H zucchini leaf (*59*)	0.481	0.507				F
Greenhouse H zucchini leaf (*59*)	0.476	0.514				F
Greenhouse H zucchini fruit (*59*)	0.538	0.489				F
Greenhouse H zucchini fruit (*59*)	0.526	0.471				F
Greenhouse H zucchini stem (*59*)	0.471	0.509				F
Greenhouse H zucchini stem (*59*)	0.474	0.516				F
Greenhouse H zucchini root (*59*)	0.494	0.507				F
Greenhouse H zucchini root (*59*)	0.473	0.547				F
Greenhouse L air (*59*)	0.500	0.500				F
Greenhouse L zucchini leaf (*59*)	0.518	0.451				F
Greenhouse L zucchini leaf (*59*)	0.542	0.444				F
Greenhouse L zucchini fruit (*59*)	0.623	0.448				F
Greenhouse L zucchini fruit (*59*)	0.589	0.397				F
Greenhouse L zucchini stem (*59*)	0.458	0.469				F
Greenhouse L zucchini stem (*59*)	0.466	0.489				F
Greenhouse L zucchini root (*59*)	0.480	0.502				F
Greenhouse L zucchini root (*59*)	0.464	0.512				F
Field high soil (*59*)	0.548	0.476				F
Field high soil (*59*)	0.539	0.469				F
Field high zucchini leaf (*59*)	0.524	0.484				F
Field high zucchini leaf (*59*)	0.527	0.461				F
Field high zucchini fruit (*59*)	0.601	0.480				F
Field high zucchini fruit (*59*)	0.617	0.493				F
Field high zucchini stem (*59*)	0.504	0.522				F
Field high zucchini stem (*59*)	0.486	0.512				F
Field high zucchini root (*59*)	0.525	0.527				F
Field high zucchini root (*59*)	0.511	0.542				F
Field medium soil (*59*)	0.534	0.455				F
Field medium soil (*59*)	0.553	0.478				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Field medium zucchini leaf (*59*)	0.524	0.466				F
Field medium zucchini leaf (*59*)	0.516	0.483				F
Field medium zucchini fruit (*59*)	0.639	0.493				F
Field medium zucchini fruit (*59*)	0.604	0.473				F
Field medium zucchini stem (*59*)	0.489	0.511				F
Field medium zucchini stem (*59*)	0.481	0.528				F
Field medium zucchini root (*59*)	0.514	0.508				F
Field medium zucchini root (*59*)	0.511	0.520				F
Field low soil (*59*)	0.537	0.454				F
Field low soil (*59*)	0.548	0.475				F
Field low zucchini leaf (*59*)	0.517	0.420				F
Field low zucchini leaf (*59*)	0.516	0.446				F
Field low zucchini fruit (*59*)	0.579	0.466				F
Field low zucchini fruit (*59*)	0.560	0.457				F
Field low zucchini stem (*59*)	0.474	0.497				F
Field low zucchini stem (*59*)	0.469	0.504				F
Field low zucchini root (*59*)	0.505	0.526				F
Field low zucchini root (*59*)	0.516	0.509				F
Air 60 cm above ground (*59*)	0.523	0.455				F
Field clean zucchini leaf (*59*)	0.505	0.435				F
Field clean zucchini leaf (*59*)	0.570	0.472				F
Field clean zucchini fruit (*59*)	0.534	0.460				F
Field clean zucchini fruit (*59*)	0.574	0.433				F
Field clean zucchini stem (*59*)	0.503	0.484				F
Field clean zucchini stem (*59*)	0.506	0.483				F
Field clean zucchini root (*59*)	0.501	0.518				F
Field clean zucchini root (*59*)	0.500	0.559				F
Crop soils Pearl River Delta, China 2002 (*60*)	0.545 ± 0.069 0.409-0.740	0.545 ± 0.112 0.237-0.885				F
Paddy soils Pearl River Delta, China 2002 (*60*)	0.541 ± 0.043 0.482-0.602	0.567 ± 0.077 0.487-0.734				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Natural soils Pearl River Delta, China 2002 (*60*)	0.561 ± 0.110 0.352-0.813	0.555 ± 0.057 0.427-0.729				F
Cored sediment West Street Basin 1 cm (*61*)	0.507 ± 0.002	0.494 ± 0.002				F
Cored sediment West Street Basin 3 cm (*61*)	0.507 ± 0.001	0.494 ± 0.002				F
Cored sediment West Street Basin 5 cm (*61*)	0.509 ± 0.001	0.492 ± 0.001				F
Cored sediment West Street Basin 7 cm (*61*)	0.506 ± 0.002	0.488 ± 0.001				F
Cored sediment West Street Basin 9 cm (*61*)	0.504 ± 0.003	0.495 ± 0.002				F
Cored sediment West Street Basin 13 cm (*61*)	0.507 ± 0.001	0.492 ± 0.001				F
Cored sediment West Street Basin 17 cm (*61*)	0.502 ± 0.001	0.500 ± 0.002				F
Cored sediment West Street Basin 21 cm (*61*)	0.506 ± 0.001	0.496 ± 0.002				F
Cored sediment West Street Basin 25 cm (*61*)	0.501 ± 0.001	0.494 ± 0.001				F
Cored sediment West Street Basin 33 cm (*61*)	0.502 ± 0.001	0.496 ± 0.001				F
Cored sediment West Street Basin 37 cm (*61*)	0.501 ± 0.001	0.497 ± 0.001				F
Surficial sediment Santa Ana River at Imperial Hwy. (*61*)	0.517 ± 0.003	0.476 ± 0.004				F
Cored sediment Lake Ballinger 0.5 cm (*61*)	0.517 ± 0.002	0.4820 ± 0.0003				F
Cored sediment Lake Ballinger 1.5 cm (*61*)	0.511 ± 0.001	0.485 ± 0.001				F
Cored sediment Lake Ballinger 2.5 cm (*61*)	0.504 ± 0.003	0.479 ± 0.003				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Cored sediment Lake Ballinger 3.5 cm (*61*)	0.511 ± 0.002	0.479 ± 0.001				F
Cored sediment Lake Ballinger 4.5 cm (*61*)	0.512 ± 0.001	0.483 ± 0.001				F
Cored sediment Lake Ballinger 5.5 cm (*61*)	0.507 ± 0.004	0.488 ± 0.003				F
Cored sediment Lake Ballinger 6.5 cm (*61*)	0.510 ± 0.002	0.488 ± 0.001				F
Cored sediment Lake Ballinger 7.5 cm (*61*)	0.505 ± 0.003	0.492 ± 0.003				F
Cored sediment Lake Ballinger 9.5 cm (*61*)	0.508 ± 0.001	0.493 ± 0.002				F
Cored sediment Lake Ballinger 11.5 cm (*61*)	0.508 ± 0.001	0.493 ± 0.001				F
Cored sediment Lake Ballinger 13.5 cm (*61*)	0.494 ± 0.006	0.492 ± 0.003				F
Cored sediment Lake Ballinger 15.5 cm (*61*)	0.493 ± 0.008	0.497 ± 0.001				F
Cored sediment Lake Ballinger 18.5 cm (*61*)	0.498 ± 0.004	0.513 ± 0.002				F
Cored sediment Lake Ballinger 22.5 cm (*61*)	0.503 ± 0.002	0.518 ± 0.001				F
Surficial sediment Thornton Creek (*61*)	0.507 ± 0.003	0.466 ± 0.001				F
Cored sediment Lake Como 2.5 cm (*61*)	0.515 ± 0.001	0.491 ± 0.001				F
Cored sediment Lake Como 7.5 cm (*61*)	0.504 ± 0.002	0.498 ± 0.002				F
Cored sediment Lake Como 12.5 cm (*61*)	0.496 ± 0.002	0.510 ± 0.002				F
Cored sediment Lake Como 22.5 cm (*61*)	0.507 ± 0.002	0.500 ± 0.002				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Cored sediment Lake Como 32.5 cm (*61*)	0.506 ± 0.002	0.496 ± 0.001				F
Cored sediment Lake Como 62.5 cm (*61*)	0.504 ± 0.002	0.503 ± 0.002				F
Cored sediment Lake Como 77.5 cm (*61*)	0.501 ± 0.001	0.4944 ± 0.0004				F
Cored sediment Lake Como 92.5 cm (*61*)	0.503 ± 0.001	0.501 ± 0.003				F
Suspended sediment Lake Como Inflow (*61*)	0.507 ± 0.003	0.516 ± 0.004				F
Suspended sediment Lake Como Inflow (*61*)	0.514 ± 0.003	0.517 ± 0.002				F
Suspended sediment Lake Como Inflow (*61*)	0.523 ± 0.003	0.53 ± 0.01				F
Suspended sediment Lake Como Inflow (*61*)	0.514 ± 0.005	0.509 ± 0.005				F
Suspended sediment Lake Como Outfall (*61*)	0.516 ± 0.030	0.498 ± 0.012				F
Suspended sediment Lake Como Outfall (*61*)	0.527 ± 0.004	0.494 ± 0.004				F
Cored sediment Upper Mystic Lake A 1 cm (*61*)	0.505 ± 0.002	0.493 ± 0.001				F
Cored sediment Upper Mystic Lake A 3 cm (*61*)	0.505 ± 0.002	0.494 ± 0.001				F
Cored sediment Upper Mystic Lake A 5 cm (*61*)	0.502 ± 0.004	0.491 ± 0.002				F
Cored sediment Upper Mystic Lake A 7cm (*61*)	0.496 ± 0.003	0.498 ± 0.002				F
Cored sediment Upper Mystic Lake A 9 cm (*61*)	0.500 ± 0.002	0.496 ± 0.001				F
Cored sediment Upper Mystic Lake A 13 cm (*61*)	0.505 ± 0.001	0.500 ± 0.001				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Cored sediment Upper Mystic Lake A 17 cm (*61*)	0.504 ±0.001	0.499 ± 0.001				F
Cored sediment Upper Mystic Lake A 21 cm (*61*)	0.500 ± 0.001	0.504 ± 0.001				F
Cored sediment Upper Mystic Lake A 25 cm (*61*)	0.4987 ± 0.0004	0.508 ± 0.001				F
Cored sediment Upper Mystic Lake A 29 cm (*61*)	0.502 ± 0.001	0.504 ± 0.001				F
Cored sediment Upper Mystic Lake A 29 cm (*61*)	0.500 ± 0.001	0.504 ± 0.001				F
Cored sediment Upper Mystic Lake A 35 cm (*61*)	0.499 ± 0.002	0.504 ± 0.002				F
Cored sediment Upper Mystic Lake B 4 cm (*61*)	0.5048 ± 0.0004	0.4992 ± 0.0003				F
Cored sediment Upper Mystic Lake B 16.5 cm (*61*)	0.505 ± 0.001	0.503 ± 0.001				F
Cored sediment Upper Mystic Lake B 27.5 cm (*61*)	0.505 ± 0.001	0.501 ± 0.001				F
Cored sediment Upper Mystic Lake B 27.5 cm (*61*)	0.504 ± 0.001	0.5007 ± 0.003				F
Surficial sediment Aberjona River (*61*)	0.508 ± 0.001	0.496 ± 0.001				F
Suspended sediment Aberjona River Discreet 1 (storm: rising stage) (*61*)	0.507 ± 0.002	0.463 ± 0.007				F
Suspended sediment Aberjona River Discreet 2 (storm: peak stage) (*61*)	0.508 ± 0.001	0.479 ± 0.003				F
Suspended sediment AberjonaRiver Discreet 3 (storm: falling stage) (*61*)	0.508± 0.001	0.496 ± 0.003				F
Suspended sediment Aberjona River Composite 1 (storm: stable high stage) (*61*)	0.510 ± 0.001	0.467 ± 0.004				F
Suspended sediment Aberjona	0.503 ± 0.003	0.485 ± 0.002				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
RiverComposite 2 (storm: stable high stage) (*61*)						
Cored sediment Lakewood Park Lake 1.5 cm (*61*)	0.516 ± 0.002	0.497 ± 0.001				F
Cored sediment Lakewood Park Lake 4.5 cm (*61*)	0.517 ± 0.001	0.494 ± 0.001				F
Cored sediment Lakewood Park Lake 7.5 cm (*61*)	0.517 ± 0.001	0.496± 0.001				F
Cored sediment Lakewood Park Lake 10.5 cm (*61*)	0.517 ± 0.002	0.496 ± 0.001				F
Cored sediment Lakewood Park Lake 13.5 cm (*61*)	0.514 ± 0.001	0.494 ± 0.001				F
Cored sediment Lakewood Park Lake 19.5 cm (*61*)	0.516 ± 0.002	0.491 ± 0.001				F
Cored sediment Lakewood Park Lake 25.5 cm (*61*)	0.514 ± 0.001	0.494 ± 0.001				F
Cored sediment Lakewood Park Lake 31.5 cm (*61*)	0.513 ± 0.001	0.491 ± 0.001				F
Cored sediment Lakewood Park Lake 37.5 cm (*61*)	0.514 ± 0.001	0.490 ± 0.001				F
Cored sediment Lakewood Park Lake 49.5 cm (*61*)	0.515 ± 0.002	0.490 ± 0.001				F
Cored sediment Lakewood Park Lake 55.5 cm (*61*)	0.511 ± 0.002	0.491 ± 0.001				F
Surficial sediment South River at Bouldercrest Rd. (*61*)	0.511 ± 0.002	0.488 ± 0.001				F
Surficial sediment Beaverton Creek at Cedar Hills Blvd. (*61*)	0.502 ± 0.003	0.483 ± 0.001	0.666 ± 0.012			F
Surficial sediment Beaverton Creek at Cedar Hills Blvd. (*61*)	0.508 ± 0.003	0.484 ± 0.001	0.663 ± 0.007			F
Surficial sediment Fanno Creek near Denny Rd. (*61*)	0.514 ± 0.002	0.474 ± 0.001	0.682 ± 0.006			F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Surficial sediment Fanno Creek near Denny Rd. (*61*)	0.514 ± 0.002	0.473 ± 0.001	0.676 ± 0.019			F
Surficial sediment Upper Fanno Creek at Nicol Rd. (*61*)	0.512 ± 0.002	0.479 ± 0.002	0.603 ± 0.013			F
22 Kyeongbuk Yeongdeok Ganggu-myeon Samsa-ri, South Korea soil (*62*)	<DL	0.480				F
23 Kyeongbuk Yeongdeok Ganggu-myeon Namho-ri South Korea soil (*62*)	0.588	0.382				F
24 Gangwon Samchok Geundeok-myeon Chogok-ri South Korea soil (*62*)	<DL	0.490				F
25 Gangwon Samchok Jeongla-dong South Korea soil (*62*)	<DL	0.499				F
28 Chungnam Taean So-myeon Uihang-ri South Korea soil (*62*)	0.567	0.356				F
29 Chungnam Taean Cheonlipobeach South Korea soil (*62*)	<DL	0.489				F
31 Jeonbuk Buan Haseo-myeon South Korea soil (*62*)	<DL	0.465				F
33 Jeonnam Wando Wando-eup Jukcheong-ri South Korea soil (*62*)	0.532	0.551				F
36 Kyeongnam Jinhae Pungho-dong South Korea soil (*62*)	0.547	0.404				F
37 Kyeongnam Jinhae Ungcheon-dong South Korea soil (*62*)	<DL	0.498				F
38 Kyeongnam Jinhae Ungcheon-dong Jinhae South Korea soil (*62*)	0.507	0.474				F
39 Ulsan City Donggu Bangeo-dong South Korea soil (*62*)	0.540	0.434				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
40 Ulsan City Donggu Hajeong-dong South Korea soil (*62*)	<DL	0.358				F
41 Ulsan City Bukgu Youngpo-dong South Korea soil (*62*)	<DL	0.472				F
44 Mary's Peak US tower soil (*62*)	0.434	0.597				F
45 HYSLOP US Wheat soil (*62*)	0.579	0.398				F
46 HYSLOP US Wheat soil (*62*)	0.574	0.377				F
Air Hedo Station Observatory, Okinawa, Japan Mar 25-26, 2004 (*62*)	<DL	0.497				F
Air Hedo Station Observatory, Okinawa, Japan Mar 29-30, 2004 (*62*)	0.503	0.499				F
Air Hedo Station Observatory, Okinawa, Japan Mar 30-31, 2004 (*62*)	0.495	0.501				F
Air Hedo Station Observatory, Okinawa, Japan Apr 2-3, 2004 (*62*)	0.498	0.499				F
Air Hedo Station Observatory, Okinawa, Japan Apr 3-4, 2004 (*62*)	0.501	<DL				F
Air Hedo Station Observatory, Okinawa, Japan Apr 4-5, 2004 (*62*)	<DL	0.496				F
Air Hedo Station Observatory, Okinawa, Japan Apr 12-13, 2004 (*62*)	0.507	0.496				F
Air Hedo Station Observatory, Okinawa, Japan Apr 20-21, 2004 (*62*)	0.504	0.497				F
Air Hedo Station Observatory, Okinawa, Japan Apr 24-25, 2004 (*62*)	0.501	0.502				F
Air Hedo Station Observatory,	0.497	0.502				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Okinawa, Japan Apr 25-26, 2004 (*62*)						
Air Hedo Station Observatory, Okinawa, Japan Apr 27-28, 2004 (*62*)	0.510	0.502				F
Air Hedo Station Observatory, Okinawa, Japan Apr 28-29, 2004 (*62*)	<DL	0.500				F
Air Hedo Station Observatory, Okinawa, Japan Apr 29-30, 2004 (*62*)	<DL	0.502				F
Air Hedo Station Observatory, Okinawa, Japan May 1-2, 2004 (*62*)	0.505	0.501				F
Air Cheeka Peak Observatory Jan 28-30, 2003 (*62*)	0.508	0.501				F
Air Cheeka Peak Observatory Apr 11-13, 2003 (*62*)	0.509	0.497				F
Air Cheeka Peak Observatory Jun 2-4, 2003 (*62*)	0.517	0.478				F
Air Cheeka Peak Observatory Jun 16-18, 2003 (*62*)	<DL	0.490				F
Air Mary's Peak Observatory May 11-13, 2003 (*62*)	<DL	0.504				F
Air Mary's Peak Observatory May 26-28, 2003 (*62*)	<DL	0.496				F
Air Mary's Peak Observatory May 30 - June1,2003 (*62*)	0.497	0.502				F
Air Mary's Peak Observatory Jun 2-4, 2003 (*62*)	<DL	0.502				F
Air Mary's Peak Observatory Jun 22-24, 2003 (*62*)	0.500	0.501				F
Air Mary's Peak Observatory Jul 4-	0.502	0.495				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
6, 2003 (*62*)						
Air Mary's Peak Observatory Jul 22-24, 2003 (*62*)	<DL	0.498				F
Air Mary's Peak Observatory Aug 2-4, 2003 (*62*)	0.524	0.484				F
Air Mary's Peak Observatory Aug 4-5, 2003 (*62*)	<DL	0.497				
Air Mt. Bachelor Observatory Apr 25-26, 2004 (*62*)	0.501	0.498				F
Air Mt. Bachelor Observatory May 17-18, 2004 (*62*)	0.495	0.502				F
Air Mt. Bachelor Observatory May 21-22, 2004 (*62*)	<DL	0.501				F
Air Mt. Bachelor Observatory Jun 19-20, 2004 (*62*)	0.515	0.490				F
Air Mt. Bachelor Observatory Jul 11-12, 2004 (*62*)	<DL	0.504				F
Air Mt. Bachelor Observatory Jan 9-10, 2005 (*62*)	<DL	0.494				F
Air Mt. Bachelor Observatory May 7-8, 2005 (*62*)	0.501	0.502				F
Air Mt. Bachelor Observatory May 12-13, 2005 (*62*)	0.500	0.500				F
Air Mt. Bachelor Observatory May 27-28, 2005 (*62*)	<DL	0.500				F
Air Mt. Bachelor Observatory Aug 9-10, 2005 (*62*)	0.501	0.501				F
Air Mt. Bachelor Observatory Apr 4-5, 2006 (*62*)	0.501	0.501				F
Air Mt. Bachelor Observatory Apr 13-14, 2006 (*62*)	<DL	0.502				F
Borden, Toronto soil (*63*)	0.588	0.387				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Aurora, Toronto soil (*63*)	0.526	0.445				F
Richmond Hill, Toronto soil (*63*)	0.607	0.395				F
Downsview, Toronto soil (*63*)	0.553	0.458				F
North York, Toronto soil (*63*)	0.562	0.421				F
Riverdale, Toronto soil (*63*)	0.557	0.471				F
High Park, Toronto soil (*63*)	0.605	0.423				F
Borden, Toronto sediment (*63*)	0.520	0.485				F
Aurora, Toronto sediment (*63*)	0.517	0.497				F
Richmond Hill, Toronto sediment (*63*)	0.528	0.496				F
Downsview, Toronto sediment (*63*)	0.520	0.488				F
North York, Toronto sediment (*63*)	0.487	0.471				F
Riverdale, Toronto sediment (*63*)	0.493	0.496				F
High Park, Toronto sediment (*63*)	0.499	0.490				F
weathered chlordane contaminated bulk soil (*64*)	0.529	0.474	0.582			F
control (no plants) pore water (*64*)	0.547	0.469	0.571			F
Black Beauty pore water (*64*)	0.547	0.477	0.573			F
Zephyr pore water (*64*)	0.540	0.458	0.575			F
Marketmore pore water (*64*)	0.549	0.465	0.573			F
Lake Superior surface water August 1996 (*65*)	0.502 ± 0.008 0.486-0.510	0.478 ± 0.006 0.467-0.492	0.649 ± 0.0182 0.620-0.684			F
Lake Superior surface water May 1997 (*65*)	0.502 ± 0.007 0.491-0.510	0.478 ± 0.009 0.462-0.490	0.648 ± 0.018 0.626-0.98			F
Lake Erie surface water August 1996 (*65*)	0.500	0.474	0.647			F
Lake Ontario – ship collected surface water July 1998 (*65*)	0.480 ± 0.033 0.468-0.510	0.477 ± 0.009 0.452-0.488	0.655 ± 0.027 0.623-0.701			F
Lake Ontario – ship collected surface water June 2000 (*65*)	0.490 ± 0.006 0.483-0.495	0.483 ± 0.006 0.472-0.494	0.658 ± 0.010 0.647-0.670			F
Lake Superior air August 1996 (*65*)	0.523 ± 0.004	0.465 ± 0.005	0.660 ± 0.016			F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
	0.519-0.471	0.459-0.471	0.644-0.680			
Lake Superior air May 1997 (*65*)	0.485 ± 0.005 0.482-0.490	0.490 ± 0.003 0.487-0.495	0.667 ± 0.014 0.645-0.679			F
Lake Huron air August 1996 (*65*)	0.515-0.517	0.462-0.465	0.669-0.672			F
Lake Huron air May 1997 (*65*)	0.487-0.497	0.485-0.495	0.647			F
Lake Erie air August 1996 (*65*)	0.507	0.465	0.681			F
Lake Ontario – ship collected air July 1998 (*65*)	0.502 ± 0.005 0.496-0.510	0.476 ± 0.005 0.466-0.485	0.663 ± 0.018 0.639-0.682			F
Lake Ontario – ship collected air September 1998 (*65*)	0.499 ± 0.007 0.488-0.508	0.480 ± 0.005 0.473-0.485	0.640 ± 0.006 0.633-0.645			F
Lake Ontario – ship collected air June 2000 (*65*)	0.516 ± 0.007 0.504-0.524	0.478 ± 0.007 0.467-0.485	0.656 ± 0.029 0.624-0.681			F
Lake Ontario – buoy collected air Summer 1998 (*65*)	0.515 ± 0.008 0.510-0.527	0.472 ± 0.008 0.460-0.481	0.634			F
Svalbard Glaucous Gull egg yolk (*66*)	0.255 ± 0.009	0.581 ± 0.013	0.650 ± 0.009		0.630 ± 0.009	F
Svalbard Glaucous Gull female plasma (*66*)	0.350 ± 0.009	0.513 ± 0.019	0.680 ± 0.012		0.634 ± 0.012	F
Svalbard Glaucous Gull male plasma (*66*)	0.267 ± 0.042	0.557 ± 0.073	0.693 ± 0.014		0.626 ± 0.011	F
Black Beauty zucchini xylem sap, nondense (*67*)	0.557	0.510	0.644			F
Black Beauty zucchini xylem sap, dense (*67*)	0.596	0.447	0.623			F
Marketmore cucumber xylem sap, nondense (*67*)	0.476	0.501	0.450			F
Marketmore cucumber xylem sap, dense (*67*)	0.455	0.418	0.427			F
Saturna Island BC, Canada Air (*68*)	0.507	0.484				F
Fraser Valley Farm 3a loam soil (*68*)	0.510	0.466				F
Fraser Valley Farm 3a air 40 cm (*68*)	0.508	0.475				F
Fraser Valley Farm 3a air 165-320	0.510	0.474				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
cm (*68*)						
Fraser Valley Farm 3b air 40 cm (*68*)	0.512	0.475				F
Fraser Valley Farm 4 silt loam soil (*68*)	0.529	0.440				F
Fraser Valley Farm 4 air 40 cm (*68*)	0.511	0.475				F
Fraser Valley Farm 4 air 165-320 cm (*68*)	0.513	0.474				F
Fraser Valley Farm 1 muck soil (*68*)	0.508	0.488				F
Fraser Valley Farm 1 air 40 cm (*68*)	0.508	0.485				F
Fraser Valley Farm 1 air 165-320 cm (*68*)	0.512	0.488				F
Fraser Valley Farm 2 muck soil (*68*)	0.515	0.493				F
Fraser Valley Farm 2 air 40 cm (*68*)	0.510	0.491				F
Fraser Valley Farm 2 air 165-320 cm (*68*)	0.512	0.490				F
Fraser Valley Farm 5 sandy loam soil (*68*)	0.510	0.498				F
Fraser Valley Farm 5 air 40 cm (*68*)	0.517	0.473				F
Fraser Valley Farm 5 air 165-320 cm (*68*)	0.522	0.473				F
Fraser Valley Farm 6 air 40 cm (*68*)	0.515	0.479				F
Fraser Valley Farm 6 air 165-320 cm (*68*)	0.520	0.475				F
Okanagan Valley Orchard 1 air 40 cm (*68*)	0.508	0.475				F
Okanagan Valley Orchard 1 air 165-320 cm (*68*)	0.508	0.488				F
Okanagan Valley Orchard 2 air 40 cm (*68*)	0.523	0.465				F
Okanagan Valley Orchard 2 air 165-320 cm (*68*)	0.516	0.469				F
Okanagan Valley Orchard 3a air 40	0.511	0.479				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
cm (*68*)						
Okanagan Valley Orchard 3b air 40 cm (*68*)	0.511	0.481				F
Summerland Air BC, Canada (*68*)	0.517	0.465				F
Arctic char muscle 1 week after single IP injection of contaminant mix (*69*)	0.497 ± 0.002	0.497 ± 0.002	0.496 ± 0.013 0.484,0.493,0.510			F
Arctic char muscle 2 weeks after single IP injection of contaminant mix (*69*)	0.493 ± 0.005		0.501 ± 0.017 0.483,0.516,0.503			F
Arctic char muscle 5 weeks after single IP injection of contaminant mix (*69*)	0.482 ± 0.005		0.489 ± 0.041 0.449, 0.447, 0.541, 0.506			F
Arctic char liver 1 week after single IP injection of contaminant mix (*69*)	0.492 ± 0.010					F
Arctic char liver 2 weeks after single IP injection of contaminant mix (*69*)	0.479 ± 0.003					F
Arctic char liver 5 weeks after single IP injection of contaminant mix (*69*)	0.480 ± 0.017					F
Spiked sediment for exposure to mysids (*70*)		0.512 ± 0.004				F
Mysis relicta (mysids) day 0 (*70*)		0.505			0.505	F
mysids day 7 (exposure days 0-10) (*70*)		0.162			0.889	F
mysids day 10 (exposure days 0-10) (*70*)		0.141			0.869	F
mysids relicta day 23 (exposure days 0-10) (*70*)		0.020			0.828	F
mysids relicta day 35 (exposure days 0-10) (*70*)		0.000			0.778	F
mysids relicta day 55 (exposure days 0-10) (*70*)		0.000			0.788	F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Spiked fish food for exposure to rainbow trout (*71*)			0.46 ± 0.008			F
Juvenile rainbow trout exposed via food days 0-32, depuration days 33-128 (*71*)			racemic			F
weathered chlordane contaminated bulk soil (*72*)	0.53	0.47	0.58			F
Black Beauty pore water (*72*)	0.55	0.48	0.57			F
Zephyr pore water (*72*)	0.54	0.46	0.57			F
Marketmore pore water (*72*)	0.55	0.47	0.57			F
control pore water (*72*)	0.55	0.47	0.57			F
Black Beauty xylem sap (*72*)	0.53	0.48	0.65			F
Zephyr xylem sap (*72*)	0.53	0.45	0.58			F
Marketmore xylem sap (*72*)	0.47	0.46	0.48			F
Black Beauty aerial tissues (*72*)	0.5	0.50	0.65			F
Zephyr aerial tissues (*72*)	0.48	0.47	0.63			F
Marketmore aerial tissues (*72*)	0.46	0.40	0.47			F
Air (*72*)	0.51	0.49	0.57			F
Amphipod Gammarus wilkitzkii from northeast of Svalbard (*73*)	0.508 ± 0.009	0.482 ± 0.017				F
Amphipod Gammarus wilkitzkii from Greenland Sea (*73*)	0.510 ± 0.008	0.480 ± 0.010				F
Copepod Calanus hyperboreus from northeast of Svalbard (*73*)	0.501 ± 0.014	0.487 ± 0.013				F
Copepod Calanus hyperboreus from Greenland Sea (*73*)	0.493 ± 0.006	0.505 ± 0.006				F
Krill Thysanoessa inermis from Greenland Sea (*73*)	0.495 ± 0.003	0.481 ± 0.007				F
Amphipod Themisto libellula from northeast of Svalbard (*73*)	0.497	0.481				F
Amphipod Themisto libellula from Greenland Sea (*73*)	0.498-0.502	0.478-0.481				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Amphipod Paramphithoe hysterix from Yermak Plateau (*73*)	0.617 ± 0.316	0.445 ± 0.093				F
Wolverine liver from Kugluktuk/Coppermine, Canada (*74*)		0.652 ± 0.015	0.554 ± 0.019		0.712 ± 0.020	F
Arctic fox liver Ulukhaqtuuq/Holman, Canada (*74*)	0.607 ± 0.035	0.890 ± 0.017	0.732 ± 0.014		0.676 ± 0.019	F
weathered chlordane contaminated bulk soil (*75*)	0.55	0.45	0.59			F
Black Beauty whole root nondense (*75*)	0.55	0.48	0.59			F
Black Beauty whole root dense (*75*)	0.55	0.48	0.6			F
Marketmore whole root nondense (*75*)	0.54	0.46	0.58			F
Marketmore whole root dense (*75*)	0.55	0.46	0.58			F
Black Beauty sap nondense (*75*)	0.56	0.51	0.64			F
Black Beauty sap dense (*75*)	0.6	0.45	0.63			F
Marketmore sap nondense (*75*)	0.48	0.5	0.45			F
Marketmore sap dense (*75*)	0.46	0.42	0.43			F
Black Beauty whole aerial nondense (*75*)	0.53	0.50	0.67			F
Black Beauty whole aerial dense (*75*)	0.55	0.48	0.67			F
Marketmore whole aerial nondense (*75*)	0.45	0.40	0.44			F
Marketmore whole aerial dense (*75*)	0.45	0.39				F
Ringed seal blubber from Grise Fiord, Canada (*76*)	0.72 ± 0.04	0.38 ± 0.03	0.47 ± 0.01		0.63 ± 0.03	F
Ringed seal blubber from Qânâq, Greenland (*76*)	0.73 ± 0.03	0.49 ± 0.05	0.43 ± 0.01		0.62 ± 0.02	F
Muscle baltic salmon from Dalälven, Sweden M74 (*77*)		0.467	0.418		0.539	F
Muscle baltic salmon from Dalälven,		0.402	0.410		0.563	F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Sweden non-M74 (*77*)						
whole herring from Baltic Sea (*77*)		0.257	0.362		0.579	F
blubber female gray seals from Baltic Sea unstarved non-occluded (*77*)	0.322	0.529	0.207		0.512	F
blubber female gray seals from Baltic Sea unstarved occluded (*77*)	0.298	0.579	0.223		0.545	F
blubber female gray seals from Baltic Sea starved occluded (*77*)	0.157	0.653	0.165		0.504	F
Whole herring from Utklippan 1993 #1 F 3yr (*78*)	1.1	0.48	0.58		1.4	R
Whole herring from Utklippan 1993 #2 M 3yr (*78*)	2.1	0.2	0.56		1.4	R
Whole herring from Utklippan 1993 #3 M 3yr (*78*)	1.2	0.27	0.51		1.4	R
Whole herring from Landsort 1993 #4 M 3yr (*78*)	1.3	0.58	0.58		1.4	R
Whole herring from Landsort 1993 #5 M 3yr (*78*)	1.5	0.47	0.49		1.1	R
Whole herring from Landsort 1993 #6 F 3yr (*78*)	1.2	0.36	0.55		1.5	R
Whole herring from Harufjärden 1993 #7 F 3yr (*78*)	1.2	0.35	0.40		1.4	R
Whole herring from Harufjärden 1993 #8 F 3yr (*78*)	1.6	0.27	0.65		1.4	R
Whole herring from Harufjärden 1993 #9 F 3yr (*78*)	1.6	0.32	0.68		1.5	R
Grey seal blubber from Gävlebukten 1989 #1 M 1yr healthy, fed (*78*)	1.8	0.71	0.27		1.4	R
Grey seal liver from Gävlebukten 1989 #1 M 1yr healthy, fed (*78*)	0.26	0.91	<0.5		0.97	R
Grey seal blubber from Gotland #2 F	0.52	0.77	0.12		1.1	R

Sample type	CC	TC	HEPX	HEPT	OXY	Type
38yr unhealthy, starved (*78*)						
Grey seal liver from Gotland #2 F 38yr unhealthy, starved (*78*)	0.58	0.62			0.86	R
Grey seal blubber from Eggegrund 1989 #3 F 0yr healthy, fed (*78*)	0.64	0.19	0.55		1.4	R
Grey seal liver from Eggegrund 1989 #3 F 0yr healthy, fed (*78*)	0.27	0.40	<0.5		0.78	R
Grey seal blubber from Eggegrund 1989 #4 F 1yr healthy, fed (*78*)	0.47	0.21	0.5		1.4	R
Grey seal liver from Eggegrund 1989 #4 F 1yr healthy, fed (*78*)	0.49	0.25	<0.5		1.0	R
Grey seal blubber from Lövstabukten 1989 #5 F 1yr healthy, fed (*78*)	0.48	0.74	0.25		1.2	R
Grey seal liver from Lövstabukten 1989 #5 F 1yr healthy, fed (*78*)	0.24	0.94	<0.7		0.71	R
Ringed seal blubber from Kalmarsund #6 M 0yr healthy, fed (*78*)	0.28	0.39	0.3		0.92	R
Ringed seal liver from Kalmarsund #6 M 0yr healthy, fed (*78*)	0.72	0.75	<0.7		0.56	R
Ringed seal blubber from Ronnebyfjorden 1993 #7 F 0yr healthy, fed (*78*)	2.9	0.21	0.41		1.3	R
Ringed seal liver from Ronnebyfjorden 1993 #7 F 0yr healthy, fed (*78*)	4.6	0.22	<0.7			R
Harbour seal blubber from Kalmarsund 1983 #8 F 0yr healthy, fed (*78*)	0.14	2.6	0.12		0.77	R
Harbour seal liver from Kalmarsund 1983 #8 F 0yr healthy, fed (*78*)		0.42	<0.7		0.51	R
Harbour seal blubber from	0.21	3.1	0.11		0.62	R

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Skänekusten #9 M 0yr healthy, fed (*78*)						
Harbour seal liver from Skänekusten #9 M 0yr healthy, fed (*78*)		0.56	<0.3		0.44	R
Harbour seal blubber from West Tjörn 1988 #10 M 0yr healthy, fed (*78*)	0.18	1.8			1.0	R
Harbour seal liver from West Tjörn 1988 #10 M 0yr healthy, fed (*78*)		0.76				R
Sediment CRM EC-5 (*79*)	0.489 ± 0.003	0.497 ± 0.002				F
Whale blubber SRM 1945 (*79*)	0.172 ± 0.002	0.828 ± 0.005	0.622 ± 0.004		0.625 ± 0.007	F
Cod liver oil SRM 1588a (*79*)	0.468 ± 0.002	0.532 ± 0.001	0.608 ± 0.006		0.573 ± 0.001	F
Trout CRM (*79*)	0.335 ± 0.003	0.626 ± 0.003	0.631 ± 0.009		0.647 ± 0.001	F
Whale blubber NIST IV (*79*)	0.072 ± 0.020	0.887 ± 0.003	0.642 ± 0.005		0.672 ± 0.002	F
Golden Eagle egg 3 (*80*)					0.61	R
Golden Eagle egg 4 (*80*)					0.28	R
Golden Eagle egg 7 (*80*)		0.19			0.3	R
Golden Eagle egg 10 (*80*)		0.22			0.3	R
Goshawk egg 2 (*80*)					0.28	R
Goshawk egg 3 (*80*)		0.1			0.6	R
Merlin egg 2 (*80*)		<0.01			0.28	R
Merlin egg 1 (*80*)					0.52	R
Osprey egg3 (*80*)					0.46	R
Peregrine Falcon egg 1 (*80*)		<0.01			0.34	R
Peregrine Falcon egg 3 (*80*)		<0.01			0.36	R
Sparrowhawk egg 1 (*80*)					0.56	R
Spiked food 1 for Rainbow Trout feeding (*81*)		0.494 ± 0.002				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
Spiked food 2 for Rainbow Trout feeding (*81*)		0.495 ± 0.003				F
Rainbow trout carcass day 13 (uptake days 0-40, depuration days 41-278) (*81*)		0.510				F
Rainbow trout carcass day 20 (*81*)		0.576				F
Rainbow trout carcass day 27 (*81*)		0.576				F
Rainbow trout carcass day 34 (*81*)		0.581				F
Rainbow trout carcass day 40 (*81*)		0.543				F
Rainbow trout carcass day 48 (*81*)		0.533				F
Rainbow trout carcass day 54 (*81*)		0.529				F
Rainbow trout carcass day 90 (*81*)		0.533				F
Rainbow trout carcass day 126 (*81*)		0.686				F
Rainbow trout carcass day 153 (*81*)		0.576				F
Rainbow trout carcass day 181 (*81*)		0.600				F
Rainbow trout carcass day 278 (*81*)		0.733				F
Cod liver oils (N=13) (*82*)	0.50-1.02	0.80-3.49				R
Fish oils (N=11) (*82*)	1.00-1.18	1.00-1.06				R
Seagull eggs on heptakis (2-O-methyl-3,6-di-O-pentyl) β-CD (*83*)			1.6-2.7		1.5-2.3	R (1/2)
CEL-1R Celestun 2005 rural soil (*84*)	0.506	0.499				F
CHI-2A Chihuahua 2005 agri soil (*84*)		0.444				F
CHI-3U Chihuahua 2005 urban soil (*84*)	0.530	0.461				F
COL-4U Colima 2005 urban soil (*84*)	0.537	0.473				F
COL-5A Colima 2005 agri soil (*84*)	0.513	0.480				F
COL-6A Colima 2005 agri soil (*84*)		0.475				F
COR-7A Cordoba 2005 agri soil (*84*)		0.455				F

Sample type	CC	TC	HEPX	HEPT	OXY	Type
COR-8A Cordoba 2005 agri soil (*84*)		0.486				F
CUE-9U Cuernavaca 2005 urban soil (*84*)	0.532	0.466				F
CUE-10A Cuernavaca 2005 agri soil (*84*)	0.514	0.475				F
CUE-11A Cuernavaca 2005 agri soil (*84*)	0.498	0.457				F
SLP-12U San Louis Potosi 2005 urban soil (*84*)	0.542	0.427				F
SLP-13A San Louis Potosi 2005 agri soil (*84*)	0.542	0.427				F
MAZ-14A Mazatlan 2005 agri soil (*84*)		0.484				F
MAZ-15A Mazatlan 2005 agri soil (*84*)	0.523	0.444				F
MON-16A Monterrey 2005 agri soil (*84*)	0.588	0.380				F
TUX-17A Tuxpan 2005 agri soil (*84*)		0.478				F
TUX-18A Tuxpan 2005 agri soil (*84*)		0.460				F

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