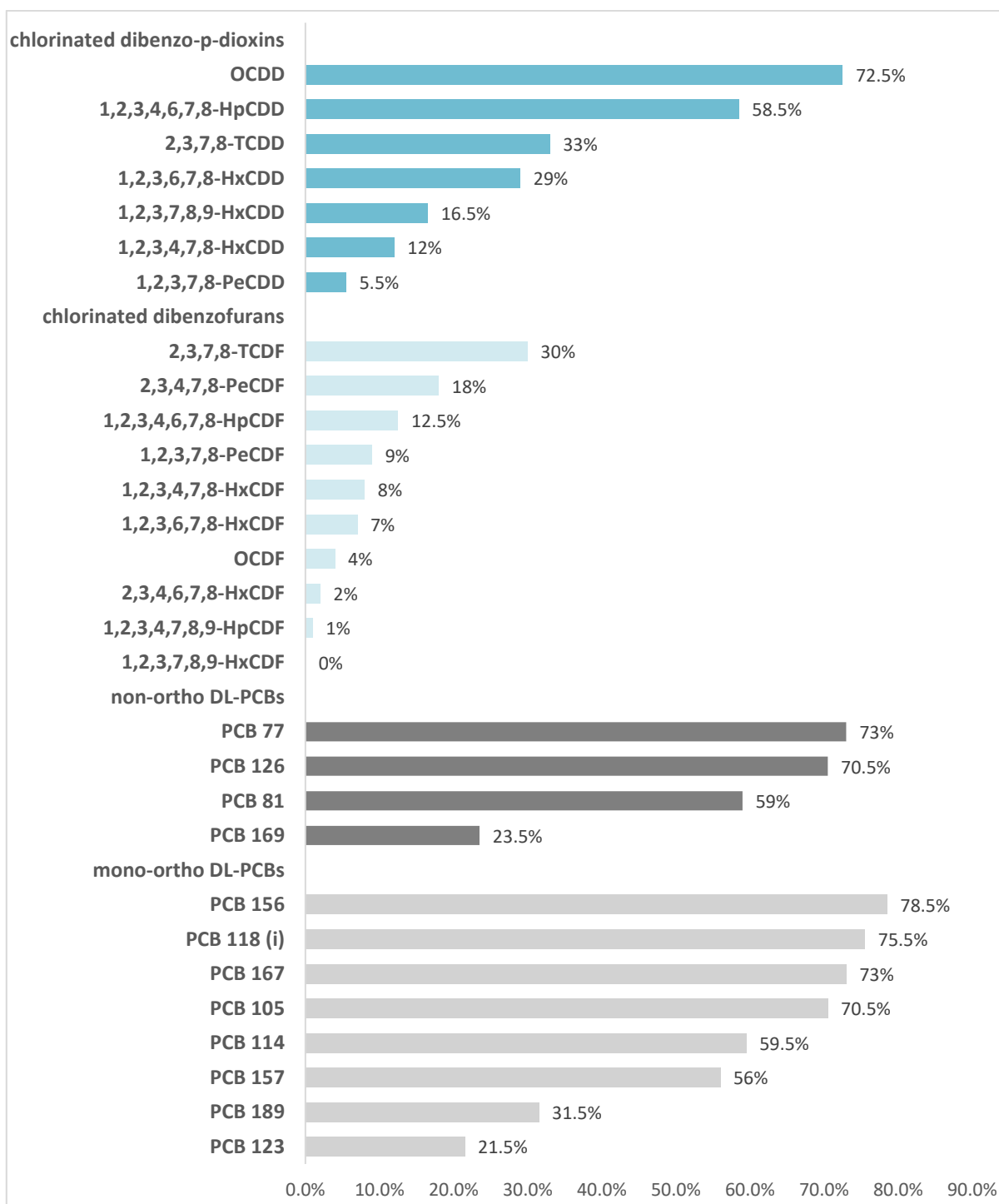
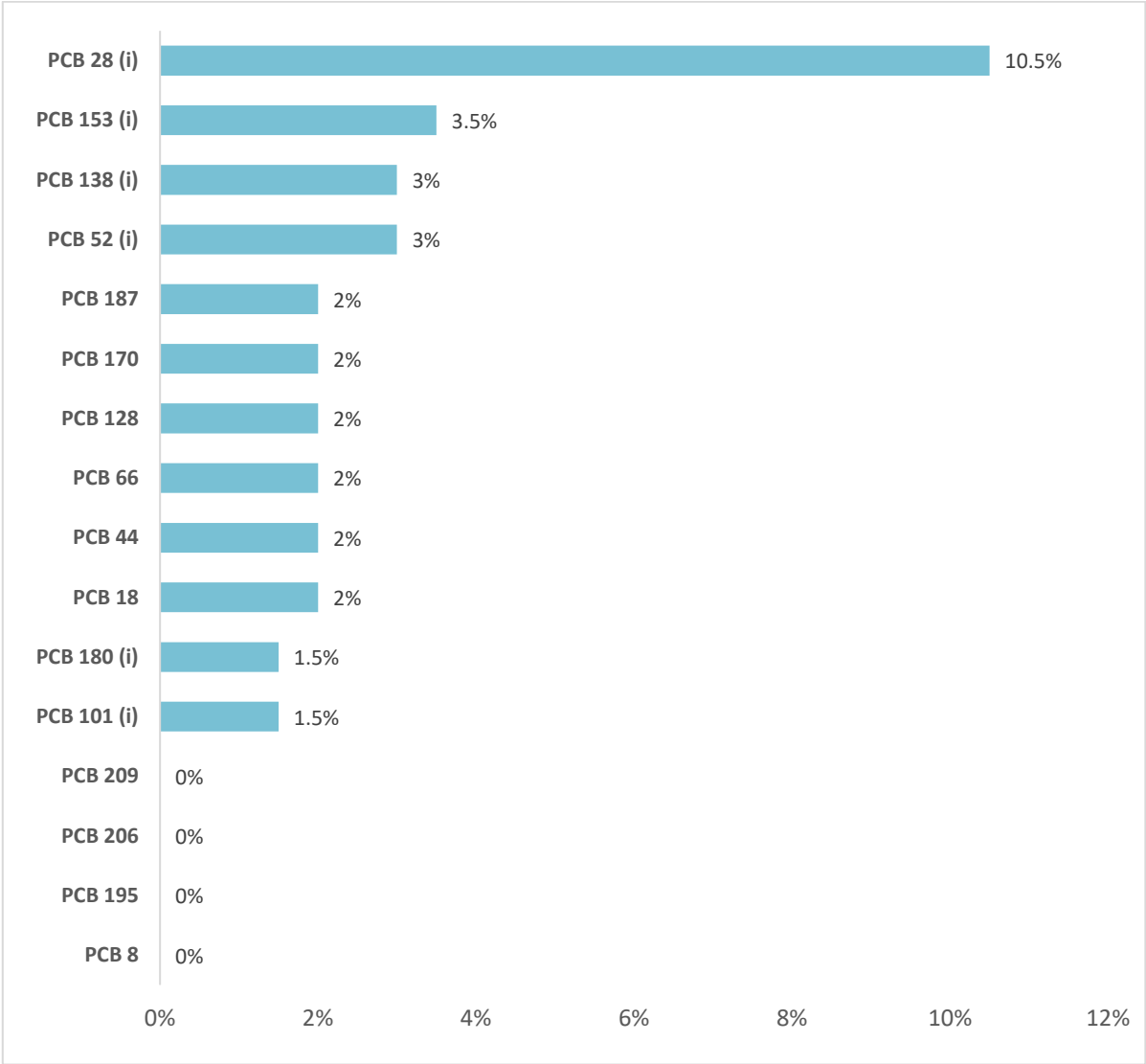


Appendix 3.1: Frequency of detections for individual dioxins and furans (PCDD/Fs) and dioxin-like PCBs (non-ortho and mono-ortho DL-PCBs)



(i): indicator PCBs

Appendix 3.2: Frequency of detections for individual non-dioxin-like PCBs (NDL-PCBs)



(i): indicator PCBs

Appendix 3.3: Lower bound and upper bound mean levels for dioxins (PCDD/Fs + DL-PCBs), dioxins and furans (PCDD/Fs), and dioxin-like PCBs (DL-PCBs)

26th ATDS Survey Food	N	Rate of detection (%)	Dioxins (PCDD/Fs and DL-PCBs)		PCDD/Fs		DL-PCBs	
			LB pg TEQ/g	UB pg TEQ/g	LB pg TEQ/g	UB pg TEQ/g	LB pg TEQ/g	UB pg TEQ/g
Bacon, middle cut, rind on	4	100%	0.00060	0.027	0.000066	0.024	0.00053	0.0030
Baked beans in tomato sauce	4	100%	0.0041	0.012	0.0032	0.011	0.00093	0.0017
Beef, minced, regular	8	100%	0.014	0.049	0.0054	0.039	0.0091	0.0098
Biscuits, sweet	4	100%	0.0069	0.022	0.0036	0.017	0.0034	0.0042
Bread, white	8	87.5%	0.0098	0.029	0.0083	0.026	0.0014	0.0034
Breakfast cereal, mixed grain	4	100%	0.021	0.040	0.015	0.034	0.0054	0.0062
Butter, salted	4	100%	0.048	0.21	0.021	0.18	0.028	0.036
Cheese, cheddar, full fat	4	100%	0.028	0.12	0.0044	0.097	0.023	0.025
Chicken breast	8	100%	0.0082	0.017	0.0053	0.013	0.0029	0.0040
Chocolate, milk	4	100%	0.0097	0.047	0.0010	0.038	0.0087	0.0095
Eggs	8	100%	0.019	0.034	0.016	0.03	0.0027	0.0040
Fish fillets, lower fat varieties	8	100%	0.064	0.069	0.025	0.031	0.039	0.039
Fish fillets, salmon	8	100%	0.28	0.29	0.065	0.081	0.21	0.21
Fish portions, crumbed, frozen	4	100%	0.059	0.068	0.023	0.032	0.036	0.036
Fruit, various	8	87.5%	0.0026	0.0099	0.0018	0.0088	0.00082	0.0012
Hamburger	8	100%	0.0074	0.035	0.0019	0.029	0.0055	0.0060
Infant dinner	4	100%	0.0084	0.015	0.0063	0.012	0.0022	0.0025
Infant formula, non-soy based	4	100%	0.00055	0.0040	0.00015	0.0032	0.0004	0.00072
Juice, orange	4	100%	0.000011	0.0029	0.0000059	0.0026	0.0000052	0.00029
Lamb chops, loin	8	100%	0.019	0.039	0.014	0.033	0.0049	0.0059
Leg ham, sliced delicatessen style	4	100%	0.010	0.016	0.0080	0.014	0.0023	0.0027
Liver pate	8	100%	0.025	0.066	0.012	0.052	0.013	0.014
Milk, full cream	8	100%	0.0060	0.0096	0.0038	0.0072	0.0023	0.0024
Peanut butter	4	100%	0.00029	0.081	0.00029	0.074	0	0.0077
Pizza	8	100%	0.0053	0.021	0.0021	0.017	0.0033	0.0041

26th ATDS Survey Food	N	Rate of detection (%)	Dioxins (PCDD/Fs and DL-PCBs)		PCDD/Fs		DL-PCBs	
			LB pg TEQ/g	UB pg TEQ/g	LB pg TEQ/g	UB pg TEQ/g	LB pg TEQ/g	UB pg TEQ/g
Potatoes	8	100%	0.0013	0.0068	0.00084	0.0059	0.00045	0.00083
Rice, white, long grain	4	100%	0.00071	0.0069	0.000010	0.0059	0.00070	0.0010
Sausages, beef, thick	8	100%	0.016	0.054	0.0048	0.038	0.011	0.015
Sushi	8	100%	0.016	0.025	0.0091	0.018	0.0066	0.0074
Tuna, canned in brine	4	100%	0.027	0.030	0.0099	0.013	0.017	0.017
Vegetable oil	4	100%	0.00022	0.081	0.00020	0.073	0.000017	0.0079
Vegetables, various	8	100%	0.013	0.017	0.010	0.015	0.0025	0.0026
Water, tap	8	0.0%	0	0.0013	0	0.0011	0	0.00020

N denotes number of composite samples. All samples are composites of three primary samples.

All results are reported in pg TEQ/g of food on a fresh weight basis (fw).

TEQ WHO 2005 Toxic Equivalents.

Rate of detection (%) calculated based on detections of one or more PCDD/Fs or DL-PCBs congeners in samples.

LB – Lower bound – assumes results reported as below the LOR are zero for each congener. The levels of individual congeners are then summed.

UB – Upper bound – assumes results reported as below the LOR are at the LOR for each congener. The levels of the individual congeners are then summed.

Appendix 3.4-1: Lower bound and upper bound mean levels for sum of non-dioxin-like PCBs (NDL-PCBs), sum of six indicator NDL-PCBs, and PCB28 and PCB52

26th ATDS Survey Food	N	Rate of detection (%)	NDL-PCBs		6 iNDL-PCBs		PCB28 (i)		PCB52 (i)	
			LB µg/kg	UB µg/kg	LB µg/kg	UB µg/kg	LB µg/kg	UB µg/kg	LB µg/kg	UB µg/kg
Bacon, middle cut, rind on	4	0%	0	4.6	0	0.30	0	0.050	0	0.050
Baked beans in tomato sauce	4	0%	0	4.6	0	0.30	0	0.050	0	0.050
Beef, minced, regular	8	0%	0	4.6	0	0.30	0	0.050	0	0.050
Biscuits, sweet	4	0%	0	4.6	0	0.30	0	0.050	0	0.050
Bread, white	8	0%	0	4.6	0	0.30	0	0.050	0	0.050
Breakfast cereal, mixed grain	4	0%	0	4.6	0	0.30	0	0.050	0	0.050
Butter, salted	4	0%	0	4.6	0	0.30	0	0.050	0	0.050
Cheese, cheddar, full fat	4	25%	0.015	4.6	0.015	0.30	0.015	0.053	0	0.050
Chicken breast	8	0%	0	4.6	0	0.30	0	0.050	0	0.050
Chocolate, milk	4	25%	0.015	4.6	0.015	0.30	0.015	0.053	0	0.050
Eggs	8	25%	0.015	4.6	0.015	0.30	0.015	0.053	0	0.050
Fish fillets, lower fat varieties	8	12.5%	0.038	4.6	0.030	0.31	0.013	0.056	0.0088	0.053
Fish fillets, salmon	8	75%	1.2	5.5	0.86	1.0	0.061	0.079	0.090	0.12
Fish portions, crumbed, frozen	4	0%	0	4.6	0	0.30	0	0.050	0	0.050
Fruit, various	8	0%	0	4.6	0	0.30	0	0.050	0	0.050
Hamburger	8	12.5%	0.0088	4.6	0.0088	0.30	0.0088	0.053	0	0.050
Infant dinner	4	0%	0	4.6	0	0.30	0	0.050	0	0.050
Infant formula, non-soy based	4	25%	0.018	4.6	0.018	0.31	0.018	0.055	0	0.050
Juice, orange	4	0%	0	4.6	0	0.30	0	0.050	0	0.050
Lamb chops, loin	8	12.5%	0.0013	4.6	0.0013	0.30	0.0013	0.050	0	0.050
Leg ham, sliced delicatessen style	4	50%	0.023	4.6	0.023	0.31	0.023	0.058	0	0.050
Liver pate	8	0%	0	4.6	0	0.30	0	0.050	0	0.050
Milk, full cream	8	0%	0	4.6	0	0.30	0	0.050	0	0.050
Peanut butter	4	0%	0	4.6	0	0.30	0	0.050	0	0.050
Pizza	8	12.5%	0.0088	4.6	0.0088	0.30	0.0088	0.053	0	0.050

26th ATDS Survey Food	N	Rate of detection (%)	NDL-PCBs		6 iNDL-PCBs		PCB28 (i)		PCB52 (i)	
			LB µg/kg	UB µg/kg	LB µg/kg	UB µg/kg	LB µg/kg	UB µg/kg	LB µg/kg	UB µg/kg
Potatoes	8	0%	0	4.6	0	0.30	0	0.050	0	0.050
Rice, white, long grain	4	0%	0	4.6	0	0.30	0	0.050	0	0.050
Sausages, beef, thick	8	0%	0	4.6	0	0.30	0	0.050	0	0.050
Sushi	8	12.5%	0.0013	4.6	0.0013	0.30	0.0013	0.050	0	0.050
Tuna, canned in brine	4	0%	0	4.6	0	0.30	0	0.050	0	0.050
Vegetable oil	4	50%	0.0050	4.6	0.0050	0.30	0.0050	0.050	0	0.050
Vegetables, various	8	12.5%	0.0075	4.6	0.0075	0.30	0.0075	0.051	0	0.050
Water, tap	8	0%	0	4.6	0	0.30	0	0.050	0	0.050

N denotes number of composite samples. All samples are composites of three primary samples.

All results are reported in ng/g of food on a fresh weight basis (fw).

(i): indicator PCBs.

Rate of detection (%) calculated based on detections of one or more NDL-PCBs congeners in samples.

LB – Lower bound – assumes results reported as below the LOR are zero for each congener. The levels of individual congeners are then summed.

UB – Upper bound – assumes results reported as below the LOR are at the LOR for each congener. The levels of the individual congeners are then summed.

Appendix 3.4-2: Lower bound and upper bound mean levels for PCB101, PCB128, PCB138, PCB153 and PCB180

26th ATDS Survey Food	N	Rate of detection (%)	PCB101 (i)		PCB128		PCB138 (i)		PCB153 (i)		PCB180 (i)	
			LB µg/kg	UB µg/kg	LB µg/kg	UB µg/kg	LB µg/kg	UB µg/kg	LB µg/kg	UB µg/kg	LB µg/kg	UB µg/kg
Bacon, middle cut, rind on	4	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Baked beans in tomato sauce	4	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Beef, minced, regular	8	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Biscuits, sweet	4	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Bread, white	8	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Breakfast cereal, mixed grain	4	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Butter, salted	4	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Cheese, cheddar, full fat	4	25%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Chicken breast	8	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Chocolate, milk	4	25%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Eggs	8	25%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Fish fillets, lower fat varieties	8	12.5%	0	0.050	0	0.050	0	0.050	0.0088	0.053	0	0.050
Fish fillets, salmon	8	75%	0	0.16	0.089	0.12	0.25	0.26	0.31	0.33	0.025	0.056
Fish portions, crumbed, frozen	4	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Fruit, various	8	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Hamburger	8	12.5%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Infant dinner	4	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Infant formula, non-soy based	4	25%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Juice, orange	4	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Lamb chops, loin	8	12.5%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Leg ham, sliced delicatessen style	4	50%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Liver pate	8	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Milk, full cream	8	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Peanut butter	4	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Pizza	8	12.5%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050

26th ATDS Survey Food	N	Rate of detection (%)	PCB101 (i)		PCB128		PCB138 (i)		PCB153 (i)		PCB180 (i)	
			LB µg/kg	UB µg/kg	LB µg/kg	UB µg/kg	LB µg/kg	UB µg/kg	LB µg/kg	UB µg/kg	LB µg/kg	UB µg/kg
Potatoes	8	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Rice, white, long grain	4	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Sausages, beef, thick	8	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Sushi	8	12.5%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Tuna, canned in brine	4	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Vegetable oil	4	50%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Vegetables, various	8	12.5%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050
Water, tap	8	0%	0	0.050	0	0.050	0	0.050	0	0.050	0	0.050

N denotes number of composite samples. All samples are composites of three primary samples.

All results are reported in ng/g of food on a fresh weight basis (fw).

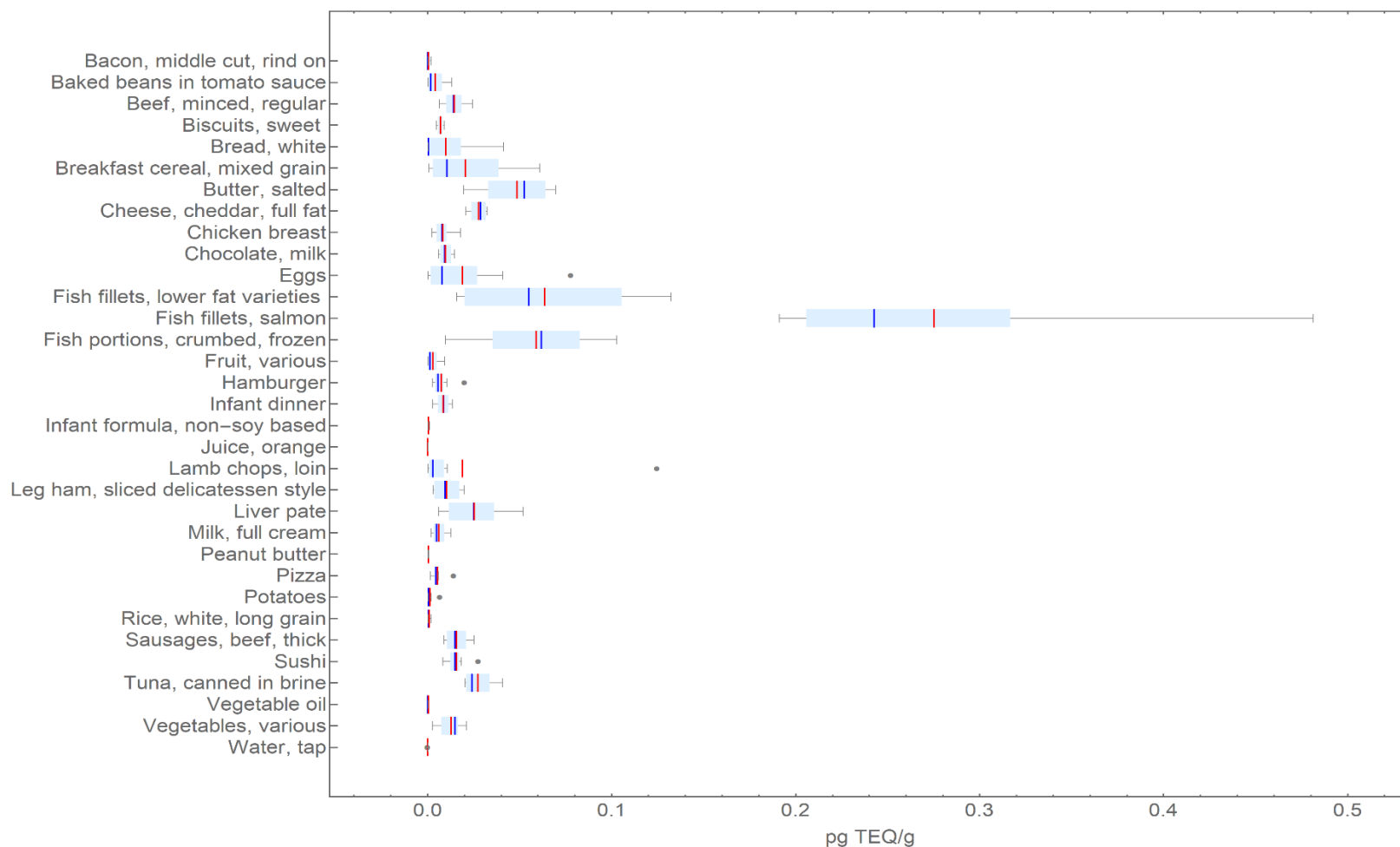
(i): indicator PCBs.

Rate of detection (%) calculated based on detections of one or more NDL-PCBs congeners in samples.

LB – Lower bound – assumes results reported as below the LOR are zero for each congener. The levels of individual congeners are then summed.

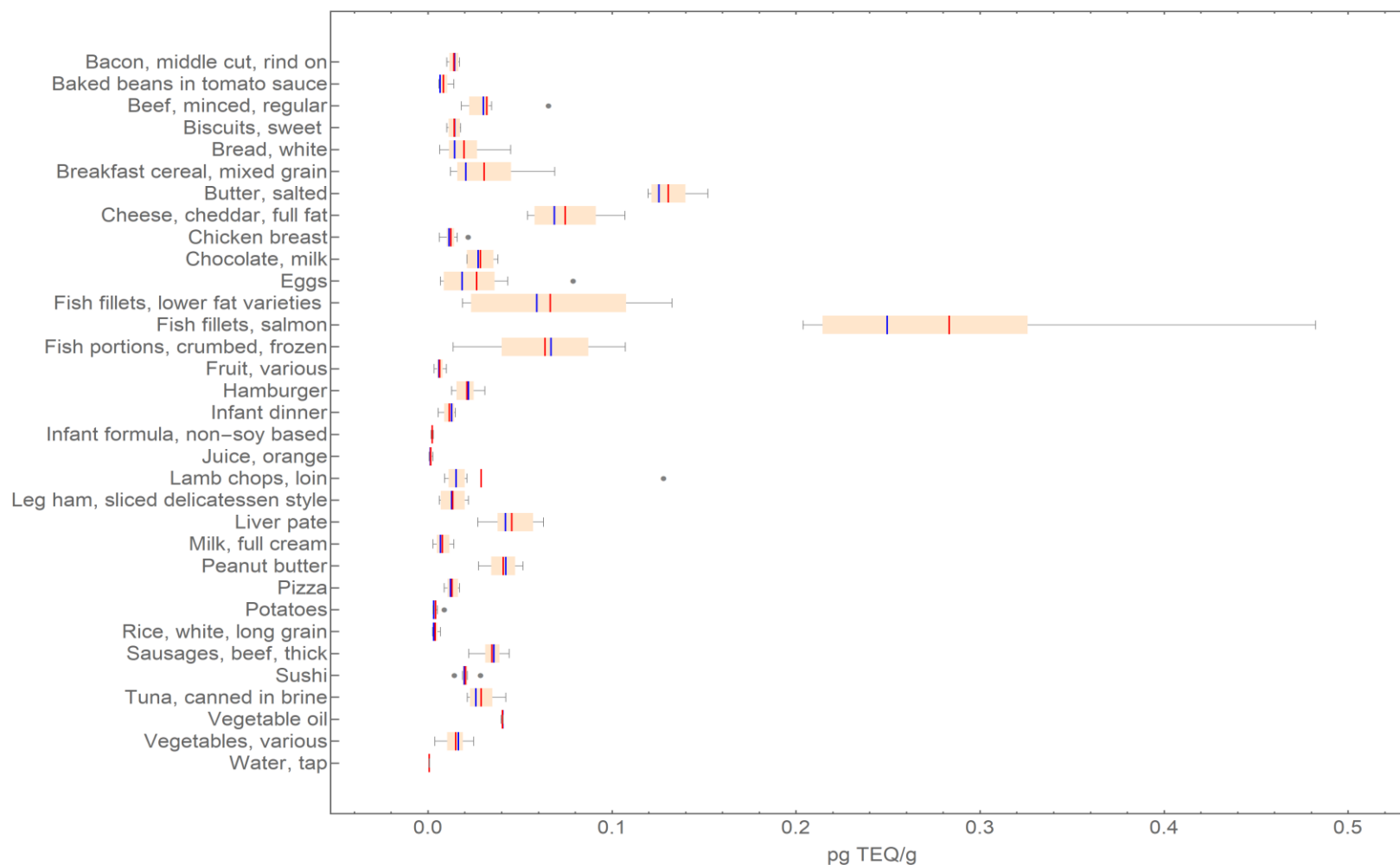
UB – Upper bound – assumes results reported as below the LOR are at the LOR for each congener. The levels of the individual congeners are then summed.

Appendix 3.5-1: Lower bound (ND = 0) concentration of total dioxins (PCDD/Fs + DL-PCBs)



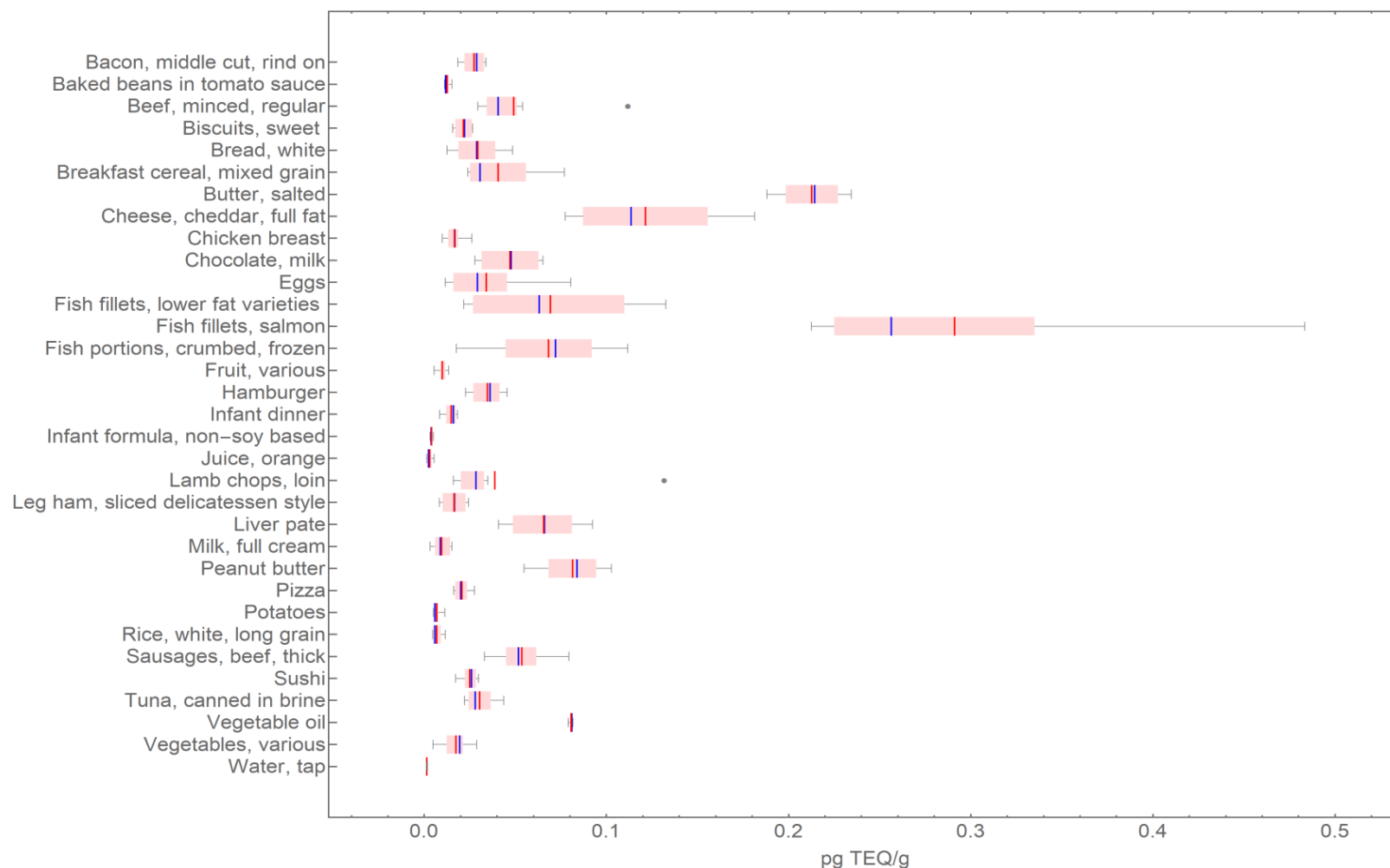
The box shows where the data points are concentrated and represent the 25th and 75th percentiles. The mean (red) and median (blue) are presented with lines in the middle of the box. The whiskers extend to minimum and maximum excluding any outliers. Outlying values are defined as any data points greater than 1.5IQR above the third quartile ($Q3+1.5*IQR$) or smaller than 1.5IQR below the first quartile ($Q1-1.5*IQR$) where IQR is the interquartile range ($Q3-Q1$).

Appendix 3.5-2: Middle bound (ND = 1/2 LOR) concentration of total dioxins (PCDD/Fs + DL-PCBs)



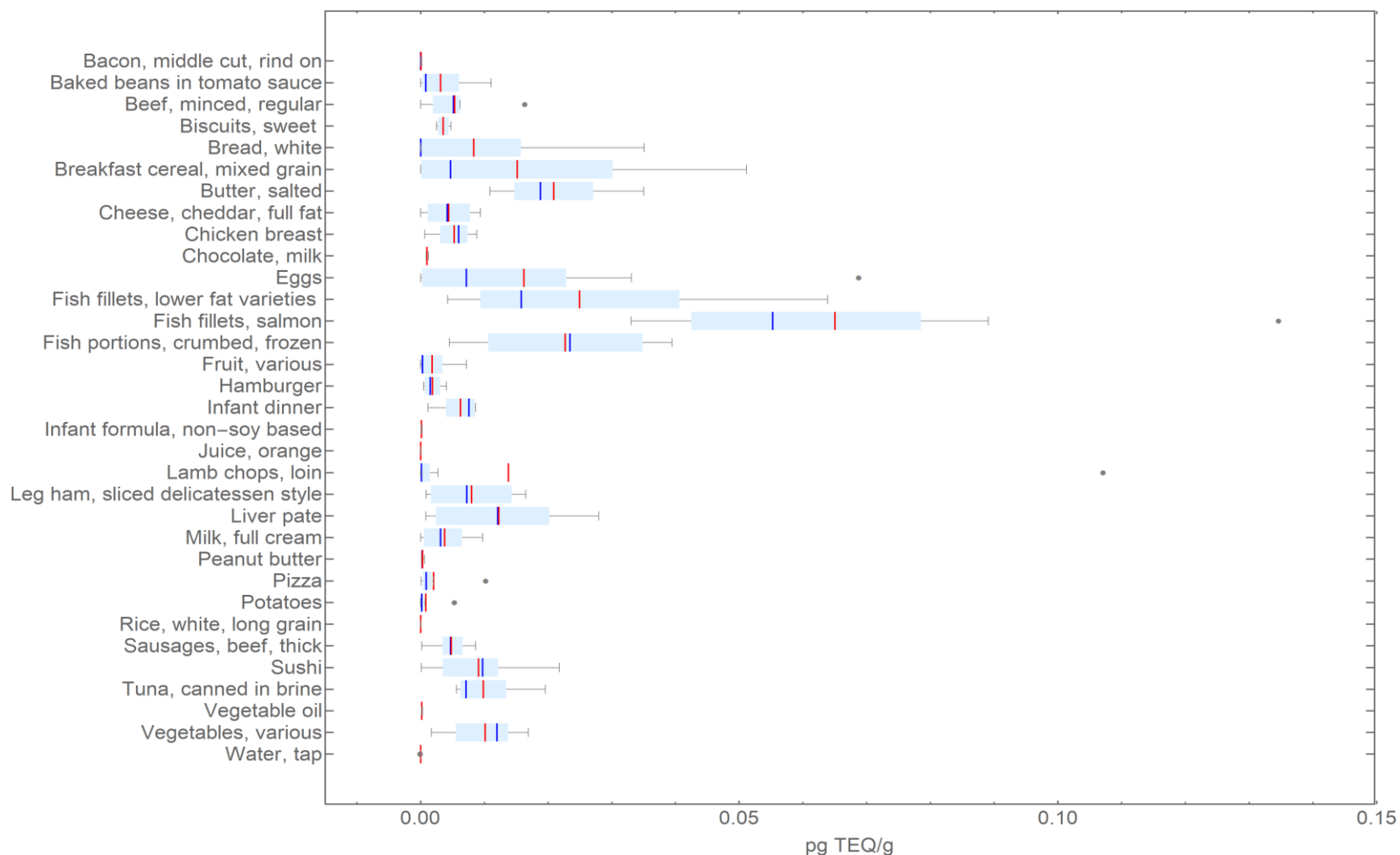
The box shows where the data points are concentrated and represent the 25th and 75th percentiles. The mean (red) and median (blue) are presented with lines in the middle of the box. The whiskers extend to minimum and maximum excluding any outliers. Outlying values are defined as any data points greater than 1.5IQR above the third quartile (Q3+1.5*IQR) or smaller than 1.5IQR below the first quartile (Q1-1.5*IQR) where IQR is the interquartile range (Q3-Q1).

Appendix 3.5-3: Upper bound (ND = LOR) concentration of total dioxins (PCDD/Fs + DL-PCBs)



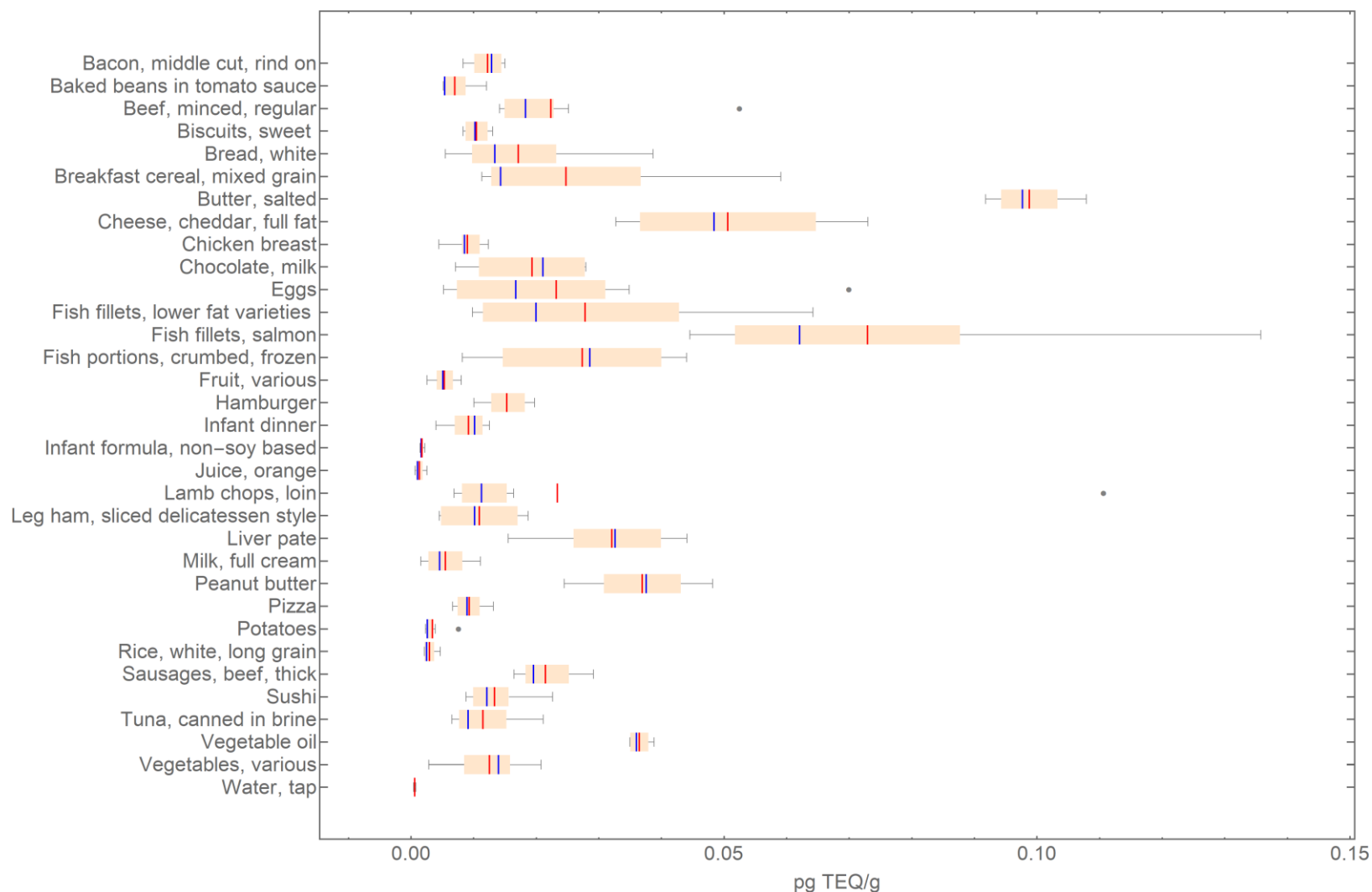
The box shows where the data points are concentrated and represent the 25th and 75th percentiles. The mean (red) and median (blue) are presented with lines in the middle of the box. The whiskers extend to minimum and maximum excluding any outliers. Outlying values are defined as any data points greater than 1.5IQR above the third quartile ($Q3+1.5*IQR$) or smaller than 1.5IQR below the first quartile ($Q1-1.5*IQR$) where IQR is the interquartile range ($Q3-Q1$).

Appendix 3.6-1: Lower bound (ND = 0) concentration of PCDDs and PCDFs



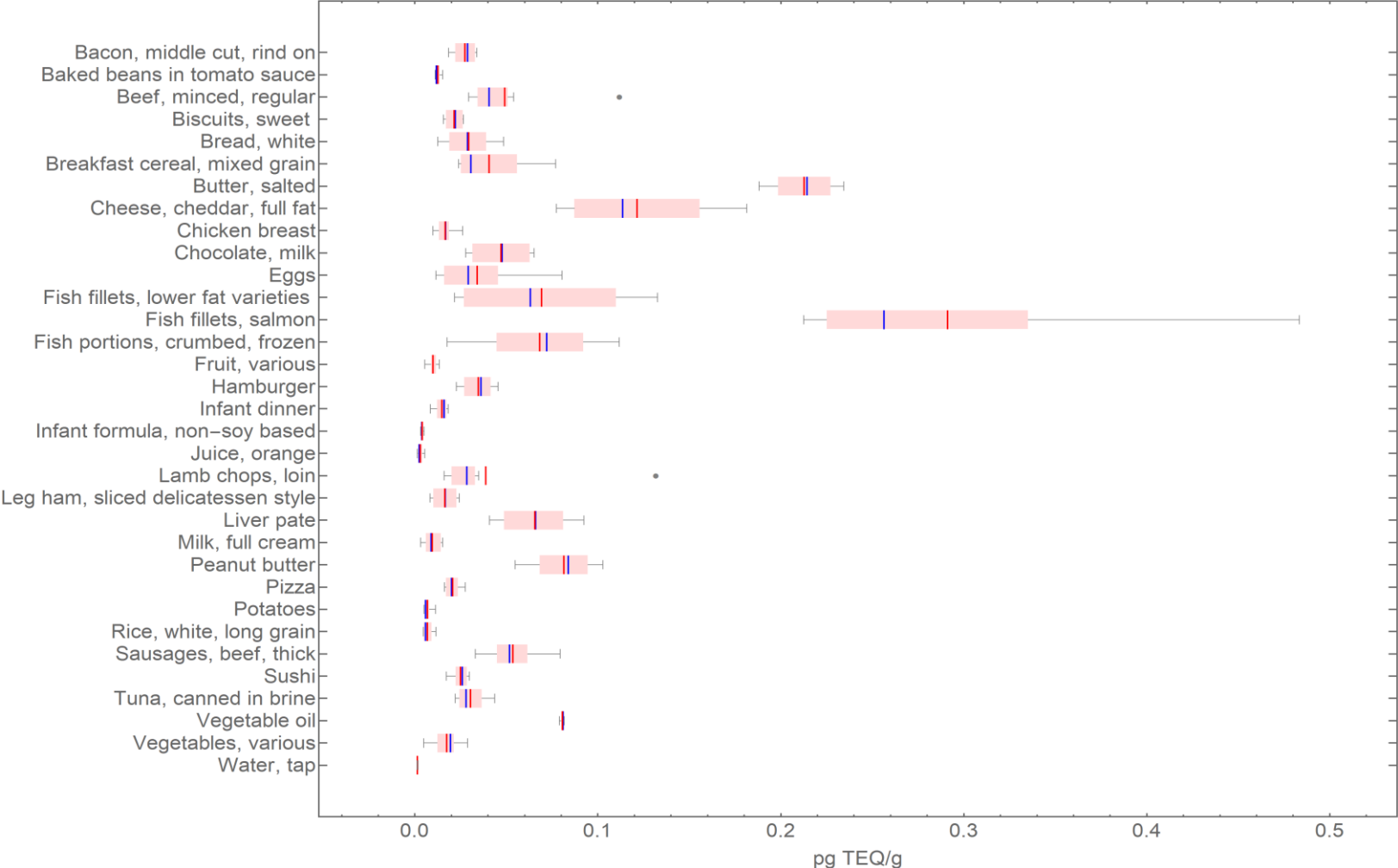
The box shows where the data points are concentrated and represent the 25th and 75th percentiles. The mean (red) and median (blue) are presented with lines in the middle of the box. The whiskers extend to minimum and maximum excluding any outliers. Outlying values are defined as any data points greater than 1.5IQR above the third quartile ($Q3+1.5*IQR$) or smaller than 1.5IQR below the first quartile ($Q1-1.5*IQR$) where IQR is the interquartile range ($Q3-Q1$).

Appendix 3.6-2: Middle bound (ND = ½ LOR) concentration of PCDDs and PCDFs



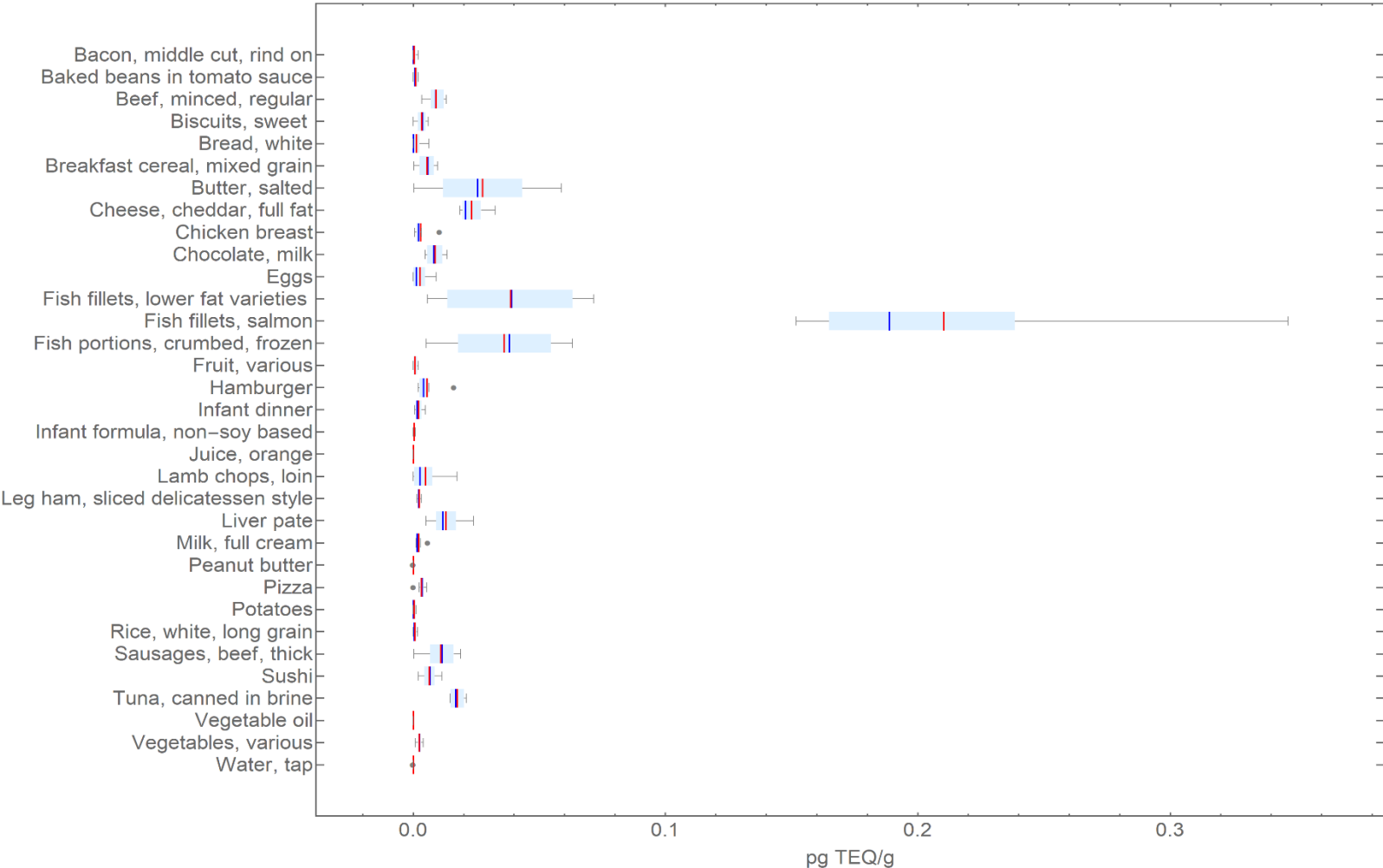
The box shows where the data points are concentrated and represent the 25th and 75th percentiles. The mean (red) and median (blue) are presented with lines in the middle of the box. The whiskers extend to minimum and maximum excluding any outliers. Outlying values are defined as any data points greater than 1.5IQR above the third quartile (Q3+1.5*IQR) or smaller than 1.5IQR below the first quartile (Q1-1.5*IQR) where IQR is the interquartile range (Q3-Q1).

Appendix 3.6-3: Upper bound (ND = LOR) concentration of PCDD and PCDFs



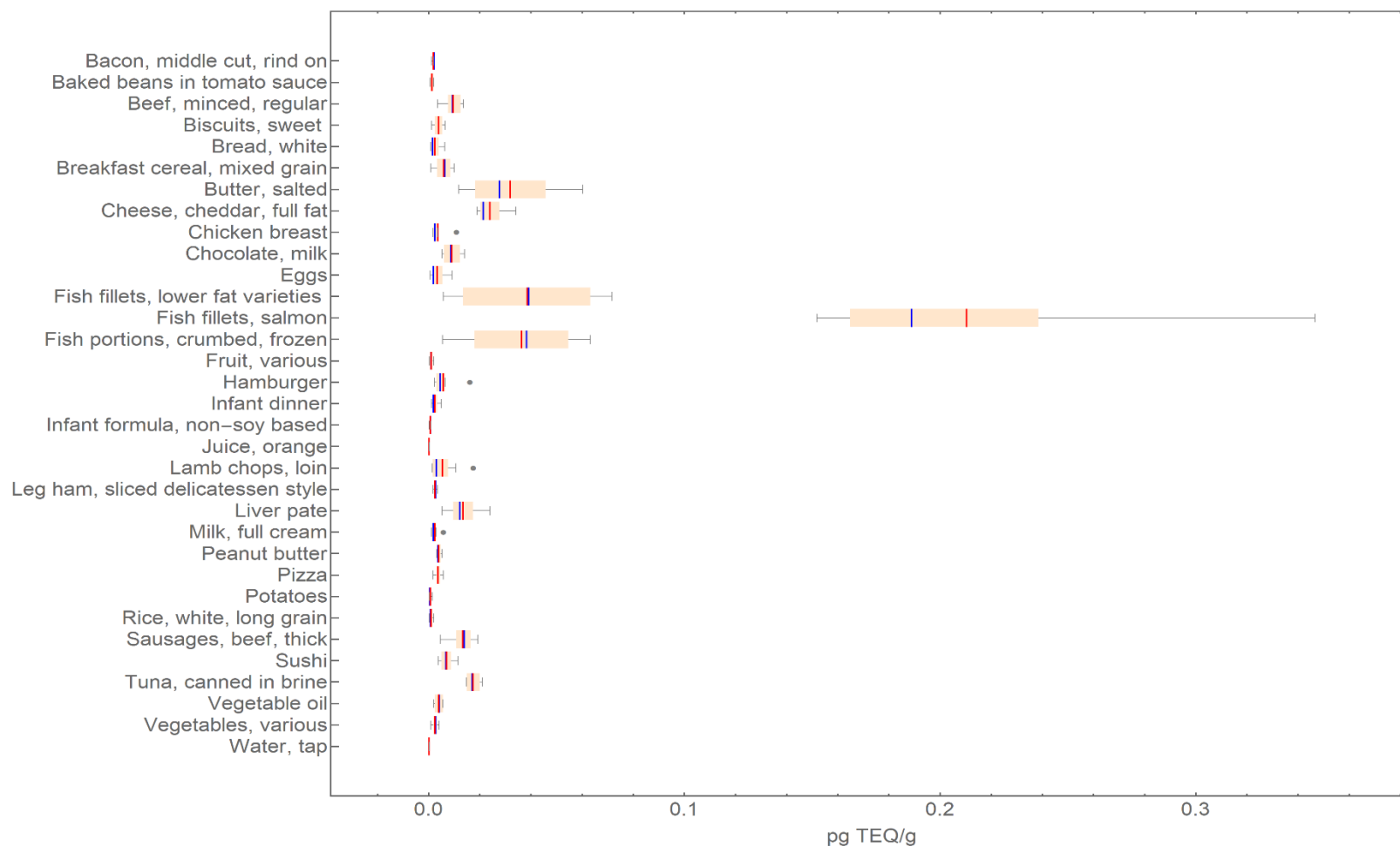
The box shows where the data points are concentrated and represent the 25th and 75th percentiles. The mean (red) and median (blue) are presented with lines in the middle of the box. The whiskers extend to minimum and maximum excluding any outliers. Outlying values are defined as any data points greater than 1.5IQR above the third quartile (Q3+1.5*IQR) or smaller than 1.5IQR below the first quartile (Q1-1.5*IQR) where IQR is the interquartile range (Q3-Q1).

Appendix 3.7-1: Lower bound (ND = 0) concentration of dioxin-like PCBs (DL-PCBs)



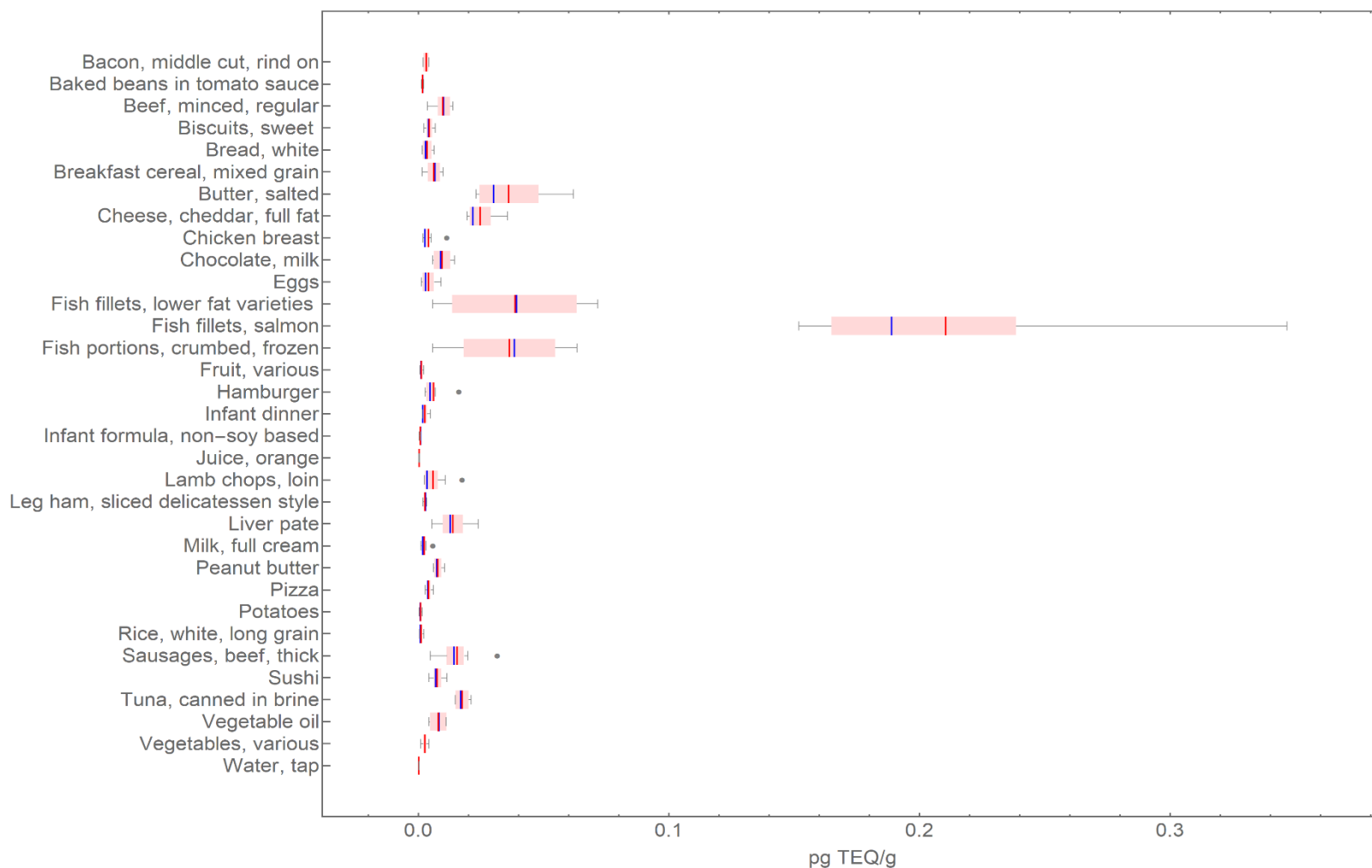
The box shows where the data points are concentrated and represent the 25th and 75th percentiles. The mean (red) and median (blue) are presented with lines in the middle of the box. The whiskers extend to minimum and maximum excluding any outliers. Outlying values are defined as any data points greater than 1.5IQR above the third quartile (Q3+1.5*IQR) or smaller than 1.5IQR below the first quartile (Q1-1.5*IQR) where IQR is the interquartile range (Q3-Q1).

Appendix 3.7-2: Middle bound (ND = 1/2 LOR) concentration of dioxin-like PCBs (DL-PCBs)



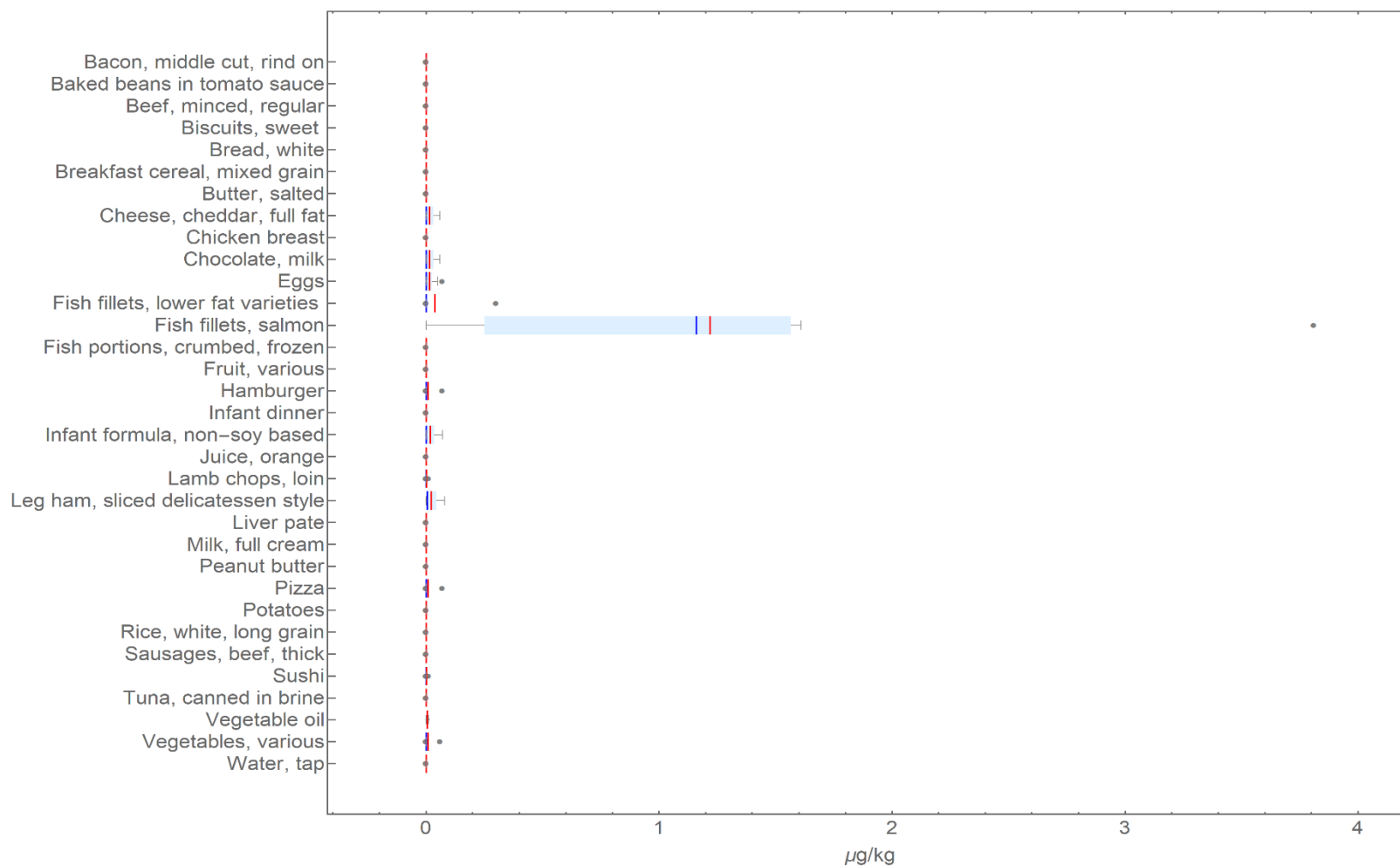
The box shows where the data points are concentrated and represent the 25th and 75th percentiles. The mean (red) and median (blue) are presented with lines in the middle of the box. The whiskers extend to minimum and maximum excluding any outliers. Outlying values are defined as any data points greater than 1.5IQR above the third quartile (Q3+1.5*IQR) or smaller than 1.5IQR below the first quartile (Q1-1.5*IQR) where IQR is the interquartile range (Q3-Q1).

Appendix 3.7-3: Upper bound (ND = LOR) concentration of dioxin-like PCBs (DL-PCBs)



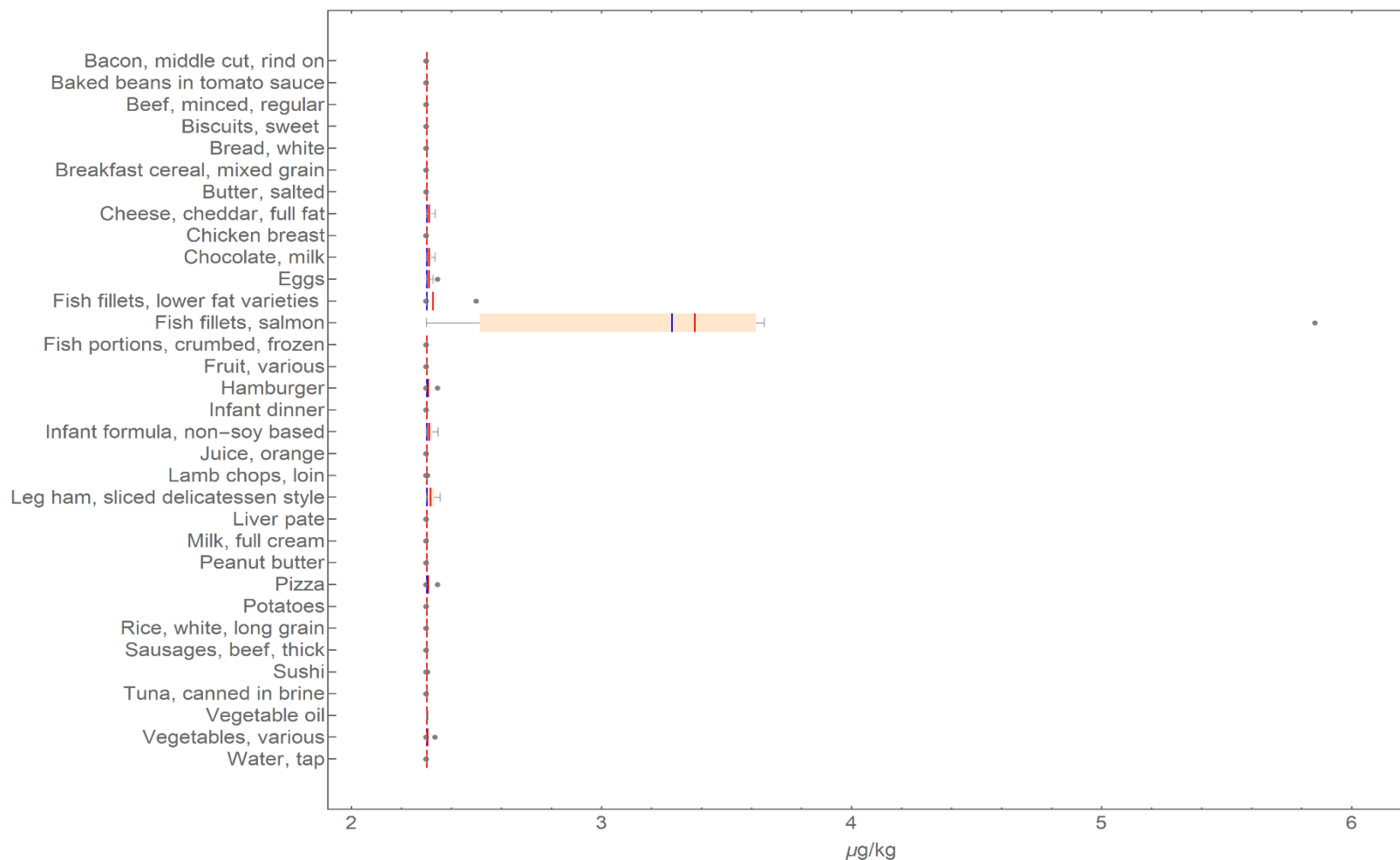
The box shows where the data points are concentrated and represent the 25th and 75th percentiles. The mean (red) and median (blue) are presented with lines in the middle of the box. The whiskers extend to minimum and maximum excluding any outliers. Outlying values are defined as any data points greater than 1.5IQR above the third quartile ($Q3+1.5*IQR$) or smaller than 1.5IQR below the first quartile ($Q1-1.5*IQR$) where IQR is the interquartile range ($Q3-Q1$).

Appendix 3.8-1: Lower bound (ND = 0, Trace Result = LOD) concentration of non-dioxin-like PCBs (NDL-PCBs)



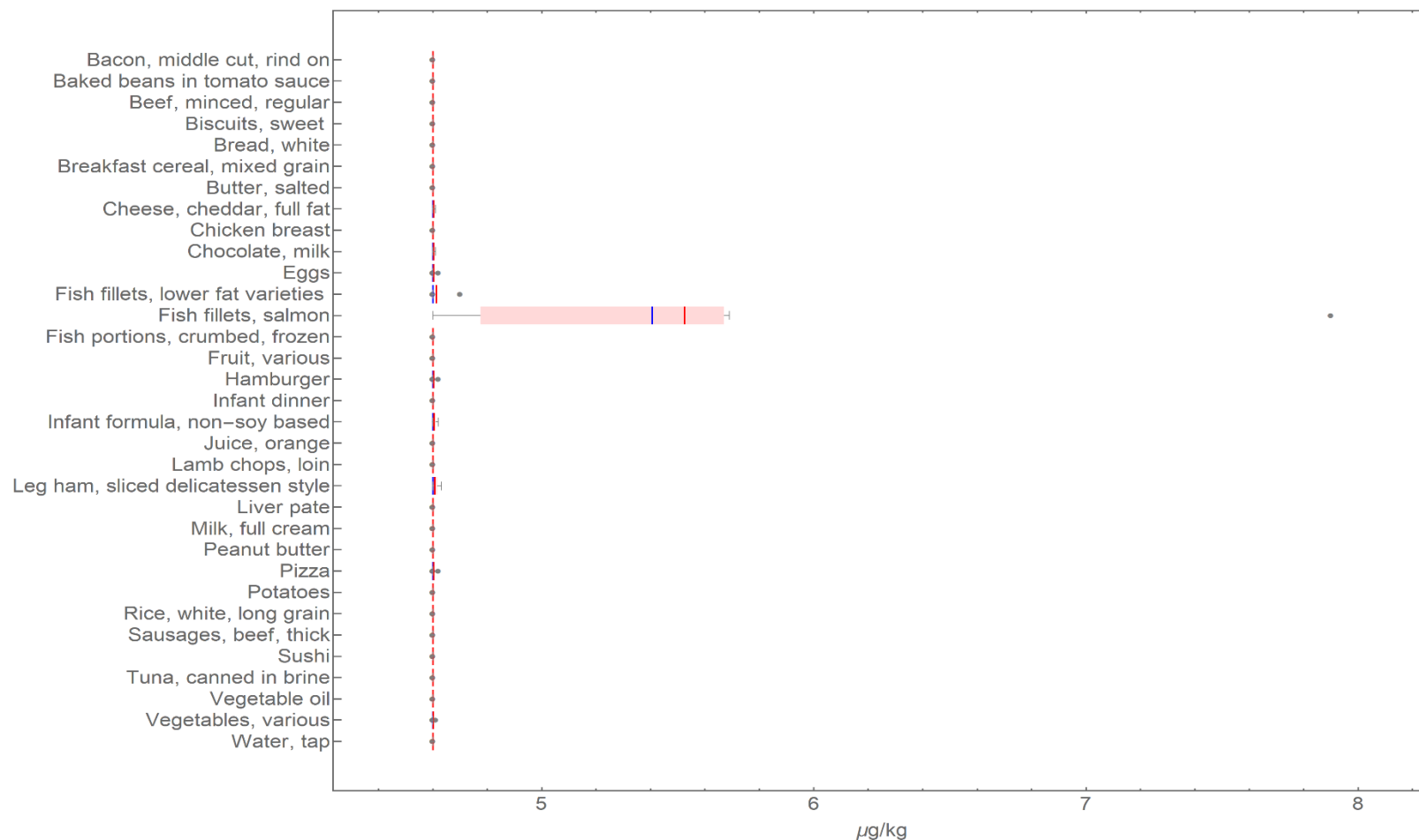
The box shows where the data points are concentrated and represent the 25th and 75th percentiles. The mean (red) and median (blue) are presented with lines in the middle of the box. The whiskers extend to minimum and maximum excluding any outliers. Outlying values are defined as any data points greater than 1.5IQR above the third quartile ($Q3+1.5*IQR$) or smaller than 1.5IQR below the first quartile ($Q1-1.5*IQR$) where IQR is the interquartile range ($Q3-Q1$).

Appendix 3.8-2: Middle bound (ND = ½ LOR, Trace Result = mid-point LOD-LOR) concentration of non-dioxin-like PCBs (NDL-PCBs)



The box shows where the data points are concentrated and represent the 25th and 75th percentiles. The mean (red) and median (blue) are presented with lines in the middle of the box. The whiskers extend to minimum and maximum excluding any outliers. Outlying values are defined as any data points greater than 1.5IQR above the third quartile (Q3+1.5*IQR) or smaller than 1.5IQR below the first quartile (Q1-1.5*IQR) where IQR is the interquartile range (Q3-Q1).

Appendix 3.8-3: Upper bound (ND = LOR, Trace Result = LOR) concentration of non-dioxin-like PCBs (NDL-PCBs)



The box shows where the data points are concentrated and represent the 25th and 75th percentiles. The mean (red) and median (blue) are presented with lines in the middle of the box. The whiskers extend to minimum and maximum excluding any outliers. Outlying values are defined as any data points greater than 1.5IQR above the third quartile ($Q3+1.5*IQR$) or smaller than 1.5IQR below the first quartile ($Q1-1.5*IQR$) where IQR is the interquartile range ($Q3-Q1$).