

Supplementary Information to “Perfluoroalkylated substances (PFASs) and legacy persistent organic pollutants (POPs) in halibut and shrimp from coastal areas in the far north of Norway: important dietary foodstuffs for coastal communities”

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Table S1. Acronyms and mass transitions for PFAS

PFAS	Acronym	Parent ion	Product ion
Perfluorocarboxylates			
Perfluorobutanoate	PFBA	213	169
Perfluoropentanoate	PFPA	263	219
Perfluorohexanoate	PFHxA	313	269/119
Perfluoroheptanoate	PFHpA	363	319/169
Perfluorooctanoate	PFOA	413	369/169
Perfluorononanoate	PFNA	463	419/219
Perfluorodecanoate	PFDA	513	469/269
Perfluoroundecanoate	PFUnA	563	519/269
Perfluorododecanoate	PFDoA	613	569/169
Perfluorotridecanoate	PFTriA	663	619/169
Perfluorotetradecanoate	PFTeA	713	669/169
Perfluorohexadecanoate	PFHxDA		

PFBS	PFHxS	Branched PFOS	Linear PFOS	PFDCS	PFBA	PFPA	PFHxA	PFHpA
0.60	1.10			1.40	49.30	8.90		6.40
PFOA	PFNA	PFDCa	PFUnA	PFDoA	PFTra	PFTeA	PFHxDA	FOSA
						8.30	0.46	

1µL injection => 3XSTDEV/sample weight =>pg/g Is that ok???

Mikael: I have no info about LODs for some of the PFAS compounds. Could you fill them in please?

I don't have recoveries for the PFAS either.

John: I don't have info about the PBDEs either. Could you fill them in please?

For some compounds, the 3XSTDEV=0. What should I write as LOD for those compounds?

It's those without numbers in table S2b.

Table S2b.

	Halibut		Shrimps		Halibut		Shrimps		Halibut		Shrimps	
Cis-chlordane	-	-	PCB70	0.19	0.15	PCB155	-	-	-	-	-	-
Trans-chlordane	-	-	PCB74	0.18	0.14	PCB156	-	-	-	-	-	-
HCB	-	-	PCB87	0.6	0.47	PCB157	0.14	0.11	-	-	-	-
<i>o,p'</i>-DDE	-	-	PCB95	0.14	0.11	PCB158	0.9	0.7	-	-	-	-
<i>o,p'</i>-DDD	0.5	0.39	PCB99	0.15	0.12	PCB167	-	-	-	-	-	-
<i>o,p'</i>-DDT	1.81	1.42	PCB101	0.12	0.1	PCB170	0.24	0.19	-	-	-	-
<i>p,p'</i>-DDD	0.52	0.41	PCB104	-	-	PCB174	0.18	0.14	-	-	-	-
<i>p,p'</i>-DDE	0.6	0.47	PCB105	0.26	0.2	PCB18	0.29	0.23	-	-	-	-
<i>p,p'</i>-DDT	7.76	6.09	PCB110	0.15	0.12	PCB180	0.31	0.25	-	-	-	-
PCB22	0.41	0.32	PCB114	-	-	PCB183	0.21	0.17	-	-	-	-
PCB28	1	0.79	PCB118	0.31	0.24	PCB187	0.22	0.17	-	-	-	-
PCB41	0.04	0.03	PCB123	0.02	0.02	PCB188	-	-	-	-	-	-
PCB44	-	-	PCB138	1.4	1.1	PCB189	-	-	-	-	-	-

PCB49	0.11	0.08	PCB141	0.12	0.1	PCB194	-	-
PCB52	0.03	0.03	PCB149	0.52	0.41	PCB199	0.19	0.15
PCB54	-	-	PCB151	1.09	0.86	PCB203	-	-
PCB60	0.13	0.11	PCB153	0.76	0.59			

Table S2. Median recoveries for PCB and PBDE.

PCB28	PCB52	PCB153	PCB138	PCB180	
88.4	93.2	95.7	100.2	74.1	
BDE28	BDE47	BDE99	BDE100	BDE153	BDE154
79.8	87.9	100.6	87.6	97.8	79.6

Table S3. Range (pg/g ww) of concentrations in the analysed samples.

	PCB18	PCB22	PCB28/31	PCB41/64	PCB44	PCB49	PCB52	PCB60/56	PCB70	PCB74	PCB87	PCB95	PCB99	PCB101/90
Min peeled shrimp	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	7	3
Max peeled shrimp	17	115	68	9	20	16	79	19	75	105	37	25	35	26
Min unpeeled shrimp	<LOD	<LOD	<LOD	2	2	4	6	6	10	19	6	5	48	27
Max unpeeled shrimp	17	115	68	9	20	16	79	19	75	105	37	25	335	203
Min halibut	<LOD	<LOD	<LOD	8	20	24	44	10	29	48	39	28	146	67
Max halibut	12	70	410	127	287	343	738	127	324	778	798	489	1894	1268

	PCB104	PCB105	PCB110	PCB114	PCB118	PCB123	PCB138	PCB141	PCB149	PCB151	PCB153	PCB155	PCB157	PCB156
Min peeled shrimp	<LOD	6	<LOD	<LOD	14	<LOD	25	<LOD	<LOD	<LOD	24	<LOD	<LOD	<LOD
Max peeled shrimp	<LOD	21	14	4	66	6	126	10	48	<LOD	98	<LOD	20	18
Min unpeeled shrimp	<LOD	28	11	2	101	2	172	5	19	<LOD	186	<LOD	9	15
Max unpeeled shrimp	3	111	54	12	507	21	1011	36	224	27	899	2	41	53
Min halibut	<LOD	75	73	8	279	9	731	32	95	<LOD	547	<LOD	17	44
Max halibut	<LOD	697	1265	87	3546	130	11321	723	2021	1086	7274	18	228	1014
	PCB158	PCB167	PCB170	PCB174	PCB180	PCB183	PCB187	PCB188	PCB189	PCB194	PCB199	PCB203	SPCB	SPCB6
Min peeled shrimp	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	2	<LOD	<LOD	117	65
Max peeled shrimp	<LOD	7	15	10	28	19	36	<LOD	2	3	7	2	768	325
Min unpeeled shrimp	16	14	15	9	67	21	10	<LOD	<LOD	6	<LOD	5	815	458
Max unpeeled shrimp	29	72	75	29	342	121	116	<LOD	7	18	3	22	4766	2600
Min halibut	47	49	33	18	244	68	144	<LOD	6	26	<LOD	24	3154	1632
Max halibut	664	756	219	233	3945	942	1506	6	68	361	<LOD	334	46068	24956
	HCB	<i>trans</i> -Chlordane	<i>cis</i> -Chlordane	<i>o,p'</i> -DDE	<i>p,p'</i> -DDE	<i>o,p'</i> -DDD	<i>p,p'</i> -DDD	<i>o,p'</i> -DDT	<i>p,p'</i> -DDT	ΣDDT	BDE28	BDE32	BDE35	BDE37
Min peeled shrimp	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0	<LOD	<LOD	<LOD	<LOD
Max peeled shrimp	44	<LOD	4	14	55	47	0	0	4	74	<LOD	<LOD	<LOD	<LOD
Min unpeeled shrimp	29	<LOD	4	<LOD	26	<LOD	<LOD	<LOD	<LOD	37	<LOD	<LOD	5	<LOD
Max unpeeled shrimp	202	<LOD	33	46	324	874	78	44	7	1048	7	<LOD	28	<LOD
Min halibut	112	<LOD	40	9	394	<LOD	117	<LOD	<LOD	969	<LOD	<LOD	<LOD	<LOD
Max halibut	349	112	952	514	5943	411	2211	225	835	8185	56	21	141	7
	BDE-47	BDE-49	BDE-71	BDE-99	BDE-100	BDE-153	BDE-154	ΣPBDE	Branched PFOS	Linear PFOS	PFHxA	PFOA	PFNA	PFDecA
Min peeled shrimp	4	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	8	NA	NA	NA	NA	NA	NA
Max peeled shrimp	13	<LOD	<LOD	<LOD	<LOD	<LOD	4	13	NA	NA	NA	NA	NA	NA
Min unpeeled shrimp	21	<LOD	<LOD	<LOD	5	<LOD	<LOD	36	54	2097	45	164	242	358
Max unpeeled shrimp	191		129	8	37	4	8	284	199	3334	81	221	610	751

