

表 1 福岡県久山町に在住する495名の血液中ダイオキシン類濃度											
Congeners	Concentration (pg/g lipid)										
	Hisayama Town (n=495)					Nakagawa Town (n=127)					
	Mean	Median	SD	Minimum	Maximum	Mean	Median	SD	Minimum	Maximum	
2, 3, 7, 8-TetraCDD	1.3	1.3	0.7	0.5	3.7	1.8	1.7	0.8	0.5	4.3	
1, 2, 3, 7, 8-PentaCDD	5.9	5.5	2.7	0.5	15	8.8	8.5	3.4	2.7	20	
1, 2, 3, 4, 7, 8-HexaCDD	2.6	2.5	1.5	1.0	10	3.6	3.2	1.9	1.0	13	
1, 2, 3, 6, 7, 8-HexaCDD	20	18	11	2.3	70	28	25	11	7.3	70	
1, 2, 3, 7, 8, 9-HexaCDD	3.4	3.0	2.4	1.0	16	4.5	3.9	2.8	1.0	16	
1, 2, 3, 4, 6, 7, 8-HeptaCDD	36	31	22	8.6	191	79	62	55	18	470	
OctaCDD	614	491	504	140	6031	1222	940	937	181	7614	
Total PCDDs	684	552	536	163	6324	1347	1041	1002	214	8170	
2, 3, 7, 8-TetraCDF	1.1	1.0	0.8	0.5	5.1	1.0	0.5	0.7	0.5	4.5	
1, 2, 3, 7, 8-PentaCDF	ND					ND					
2, 3, 4, 7, 8-PentaCDF	12	11	11	0.5	171	17	16	6.5	6.0	37	
1, 2, 3, 4, 7, 8-HexaCDF	3.5	3.0	2.7	1.0	37.0	4.9	4.4	2.7	1.0	20	
1, 2, 3, 6, 7, 8-HexaCDF	3.7	3.3	2.2	1.0	16.2	5.7	5.2	2.6	1.0	16	
2, 3, 4, 6, 7, 8-HexaCDF	ND					ND					
1, 2, 3, 7, 8, 9-HexaCDF	ND					ND					
1, 2, 3, 4, 6, 7, 8-HeptaCDF	2.2	1.0	2.4	1.0	32.2	2.2	1.0	2.1	1.0	14.2	
1, 2, 3, 4, 7, 8, 9-HeptaCDF	ND					ND					
OctaCDF	ND					ND					
Total PCDFs	28	26	17	9.5	235	37	35	13	15	86	
TriCB-77	ND					ND					
TriCB-81	ND					ND					
PentaCB-126	62	50	49	5	316	113	90	80	17	519	
HexaCB-169	63	56	37	5	267	64	58	27	16	192	
Total Non-ortho PCBs	137	119	83.4	20.0	528	191	157	106	59	744	
PentaCB-123	667	164	2532	5	26271	469	367	328	72	2460	
PentaCB-118	11436	9003	9095	107	71322	24446	20825	14638	4654	111944	
PentaCB-114	1187	989	848	17	4699	1699	1554	827	491	5696	
PentaCB-105	2056	1561	1662	56	13251	5084	4162	3372	891	23946	
HexaCB-167	2277	1843	1764	115	16053	3669	3123	1884	1102	14952	
HexaCB-156	4953	4325	3210	79	19744	7989	7086	3752	2624	23537	
HexaCB-157	1160	983	779	5	4873	2023	1887	914	594	6774	
HeptaCB-189	722	616	492	35	4392	1048	957	517	348	4050	
Total Mono-ortho PCBs	24459	20711	16536	1136	118904	46426	39345	24430	13511	191449	
TEQ from PCDDs	10	9.7	4.8	2.1	27	15	14	5.8	4.8	35	
TEQ from PCDFs	4.8	4.1	3.8	0.6	57	6.6	6.2	2.5	2.3	14	
TEQ from PCDDs/PCDFs	15	14	7.7	3.1	74	22	21	7.9	7.1	47	
TEQ from non-ortho PCBs	8.1	6.7	5.7	0.7	37	13	11	8.6	2.6	58	
TEQ from mono-ortho PCBs	0.7	0.6	0.5	0.0	3.6	1.4	1.2	0.7	0.4	5.7	
TEQ from dioxin-like PCBs	8.8	7.3	6.2	0.7	40	15	12	9.3	3.0	63	
Total TEQ	24	21	13	3.8	85	37	33	16	11	103	

ND (less than the detection limit) values introduced to half values of the detection limit and calculated the TEQ concentrations.

SD: standard deviation.  
CDD: chlorinated dibenzo-p-dioxin.  
CDF: chlorinated dibenzofuran.  
CB: chlorinated biphenyl.

表 2 福岡県久山町に在住する495名の血液中ホリ塩化ビフェニール濃度

Congeners	Concentration (pg/g lipid)									
	Hisayama Town (n=495)					Nakagawa Town (n=127)				
	Mean	Median	SD	Minimum	Maximum	Mean	Median	SD	Minimum	Maximum
TriCB-29	11	5	10	5	104	25	23	18	5	110
TriCB-28	1050	873	1031	5	11784	2571	2028	1658	768	10935
TriCB-37	424	168	641	5	4534	ND				
TetraCB-52/69	368	224	499	5	5651	1292	1097	830	387	5809
TetraCB-49	71	46	86	5	843	303	283	127	96	735
TetraCB-47/48	237	214	164	5	1960	607	576	214	214	1658
TetraCB-44	98	69	132	5	1955	459	455	175	119	998
TetraCB-71	11	5	17	5	311	192	190	73	5	401
TetraCB-63	68	60	44	5	278	146	122	89	26	506
TetraCB-74	7813	5943	6463	210	42473	19526	17413	10790	3542	72298
TetraCB-70	126	97	141	5	1772	260	243	98	44	564
TetraCB-66	1104	913	875	48	7277	2349	1720	1823	421	12354
TetraCBs-56/60	181	151	143	5	1184	888	646	704	152	4956
PentaCB-95/98	244	186	223	5	2972	836	732	407	262	2918
PentaCB-92	338	261	285	13	2660	863	671	662	146	4807
PentaCB-101	799	624	740	20	11175	1902	1489	1235	329	8083
PentaCB-99	6103	4794	4499	284	36661	12545	11002	6783	2666	39885
PentaCB-117	440	347	340	12	1922	926	737	680	164	4369
PentaCB-87	344	292	246	5	2264	693	602	379	202	2920
PentaCB-85	91	71	89	5	1074	219	175	142	44	901
PentaCB-110	153	127	126	5	1516	412	382	176	116	1025
PentaCB-107/108	591	458	483	23	3347	992	778	757	174	5129
HexaCB-151	543	418	452	5	4988	1260	1007	937	244	5835
HexaCB-135	190	153	147	5	1219	477	416	291	111	2262
HexaCB-147	230	180	168	5	868	484	410	317	37	1891
HexaCB-139/149	52	39	49	5	445	825	706	477	115	3402
HexaCB-134	16	13	14	5	142	27	5	31	5	169
HexaCB-165	50	38	44	5	292	ND				
HexaCB-146	8308	7094	5521	332	35229	13875	11993	6700	3958	47037
HexaCB-132	55	41	59	5	644	283	246	170	13	1335
HexaCB-153	49959	43121	32761	2232	229765	89802	79675	40669	24394	270455
HexaCB-141	130	100	114	5	1273	325	283	202	36	1246
HexaCB-137	1648	1380	1099	53	7533	2965	2675	1412	761	10091
HexaCB-130	1473	1238	1001	40	5544	2614	2306	1562	499	10705
HexaCB-163/164	9625	8649	6225	392	38742	19286	16973	9784	5	59832
HexaCB-138	22216	18199	15201	1072	110904	40924	36816	19598	10670	129599
HexaCB-128	377	287	299	5	2157	880	743	505	130	2996
HeptaCB-179	79	62	68	5	460	209	185	134	37	1075
HeptaCB-178	3985	3443	2618	130	18723	6234	5357	3128	1923	22423
HeptaCB-182/187	15650	13128	10523	670	74254	28073	23934	13989	8335	89829
HeptaCB-183	3087	2526	2195	135	15936	6155	5270	3047	1694	18124
HeptaCB-181	40	32	31	5	192	71	65	45	5	255
HeptaCB-177	3463	2877	2365	56	13771	5745	4972	3082	1321	21271
HeptaCB-172	1906	1634	1273	42	9662	2965	2641	1522	987	11296
HeptaCB-180	37580	32569	24089	1505	167183	59346	51640	30303	19860	235051
HeptaCB-191	424	367	277	20	1866	765	673	371	230	2156
HeptaCB-170	10570	9424	6563	339	46931	17228	15029	8740	6140	66410
OctaCB-202	1535	1322	1025	57	8032	2813	1775	4490	5	39824
OctaCB-200	166	130	142	5	1052	652	315	1394	5	10504
OctaCB-198/201	5992	5177	3961	341	28618	10074	8956	5670	3428	47350
OctaCB-203	3391	2966	2129	164	14960	7822	6750	4148	2749	32824
OctaCB-195	1058	929	657	68	4845	1820	1588	946	617	7548
OctaCB-194	5929	5328	3738	391	26412	8580	7695	5140	2527	46750
OctaCB-205	172	152	110	5	726	309	278	139	97	959
NonaCB-208	545	480	345	63	2588	775	665	376	146	2321
NonaCB-207	194	160	130	13	985	340	286	176	60	1027
NonaCB-206	1326	1182	763	160	5482	1957	1756	893	673	7168
DecaCB-209	1180	1026	699	177	5472	1359	1240	543	425	3487
Total TriCBs	1485	1207	1265	15	12819	2596	2058	1658	813	10967
Total TetraCBs	10077	8131	7413	541	47678	26023	23264	13501	5351	97803
Total PentaCBs	9103	7264	6366	375	49414	19388	17093	10195	5467	65272
Total HexaCBs	94872	81226	61860	4521	432030	174028	152536	79727	48021	543512
Total HeptaCBs	76784	66893	49330	3052	348604	126790	110003	63048	41212	463671
Total OctaCBs	18243	15930	11598	1031	84644	32068	28738	18677	11047	145650
Total NonaCBs	2065	1806	1207	284	9054	3072	2684	1409	918	10516
Total PCBs	213809	187808	134871	11062	934486	385324	344777	178350	119142	1226052

ND (less than the detection limit) values introduced to half values of the detection limit and calculated the TEQ concentrations.

SD: standard deviation.

CB: chlorinated biphenyl.