

Supplementary Table 2. All measured organic compounds from wood combustion emissions. Organic compounds were sampled over 4-hour exposure. Concentrations are calculated as averages from three test cycles \pm standard deviation.

Parameter	TEF	spruce ($\mu\text{g m}^{-3}$)	TEQ	pine ($\mu\text{g m}^{-3}$)	TEQ
PAH					
Phenanthrene	0.001	4.4 \pm 2.5	0.0044	23 \pm 5	0.023
Anthracene		1.2 \pm 0.69		6.2 \pm 2.1	
Fluoranthene		12 \pm 3.5		40 \pm 5.4	
Acephenanthrylene		5.3 \pm 2		16 \pm 4.8	
Pyrene	0.001	11 \pm 2.9	0.011	40 \pm 8.8	0.04
Benzo[c]phenanthrene		0.85 \pm 0.35		2.9 \pm 1.1	
Benzo[ghi]fluoranthene		4.5 \pm 1.3		16 \pm 3.4	
Benz[a]anthracene	0.1	2.9 \pm 1	0.29	8.4 \pm 2.4	0.84
Cyclopenta[cd]pyrene	0.1	4.5 \pm 3.1	0.45	21 \pm 12	2.1
Chrysene	0.01	4.5 \pm 1.8	0.045	15 \pm 5.5	0.15
sum_Benzo[b,k]fluoranthene	0.1	7.2 \pm 2.6	0.72	25 \pm 7.1	2.5
2,2'-Binaphthalene		0.36 \pm 0.13		0.9 \pm 0.42	
Benzo[e]pyrene		5.1 \pm 1.7		16 \pm 6.8	
Benzo[a]pyrene	1	2.1 \pm 0.79	2.1	6.6 \pm 3.4	6.6
Perylene		0.54 \pm 0.18		2.1 \pm 1.4	
Anthanthrene	0.1	0.14 \pm 0.046	0.014	0.48 \pm 0.23	0.048
Dibenz[ah]anthracene	1	0.13 \pm 0.039	0.13	0.42 \pm 0.043	0.42
Indeno[1,2,3-cd]pyrene	0.1	1.1 \pm 0.39	0.11	3.4 \pm 1.4	0.34
Picene		0.24 \pm 0.11		0.67 \pm 0.5	
Benzo[ghi]perylene		2.2 \pm 0.75		7.7 \pm 3.3	
Coronene		1.1 \pm 0.49		3.6 \pm 2	
Naphtho[1,2-b]fluoranthene		1.4 \pm 0.65		4.2 \pm 2.3	

Dibenzo[al]pyrene	10	1 ± 0.48	10	2.7 ± 1.4	27
Naphtho[2,3-b]fluoranthene		1 ± 0.54		3.3 ± 2.2	
Dibenzo[ae]pyrene	1	0.33 ± 0.21	0.33	0.76 ± 0.67	0.76
Naphtho[2,1-a]pyrene		0.56 ± 0.22		1.1 ± 0.7	
Naphtho[2,3-a]pyrene		0.4 ± 0.25		1.9 ± 0.94	
Dibenzo[ai]pyrene	10	0.13 ± 0.06	1.3	0.36 ± 0.37	3.6
Dibenzo[ah]pyrene	10	0.091 ± 0.051	0.91	0.2 ± 0.21	2

Alkylated PAH

9-Methylphenanthrene		0.29 ± 0.42		0.41 ± 0.58	
3,6-Dimethylphenanthrene		0.005 ± 0.008		0.006 ± 0.009	
Retene		0.26 ± 0.21		0.61 ± 0.03	
7,12-Dimethyl-Benz[a]anthracene		0,14 ± 0.075		0.21 ± 0.3	
1-Methyl-benz[a]anthracene		0.018 ± 0.011		0.033 ± 0.047	

o-PAH

9H-Fluoren-9-one		12 ± 6.6		38 ± 27	
1H-Phenalen-1-one		85 ± 22		180 ± 130	
Cyclopenta(def)phenanthrenone		5.6 ± 2.5		22 ± 7.5	
11H-Benzo[a]fluoren-11-one		1.5 ± 0.61		5.3 ± 1.2	
11H-Benzo[c]fluoren-11-one		0.61 ± 0.29		2 ± 0.66	
11H-Benzo[b]fluoren-11-one		2.2 ± 0.99		6.5 ± 1.9	
Xanthone		1.2 ± 0.37		5.2 ± 0.83	
1,8-Dihydroxynaphthalene		0.44 ± 0.12		2.6 ± 0.67	
1,5-Dihydroxynaphthalene		0.036 ± 0.027		0.05 ± 0.071	
1,8-Naphthalic anhydride		13 ± 3.1		52 ± 11	
9,10-Anthracenedione		3.2 ± 0.97		13 ± 2.4	
Benz[a]anthracene-7,12-dione		0.19 ± 0.059		0.7 ± 0.14	

5,12-Naphthacenedione	0.35 ± 0.22	0.92 ± 0.45
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Anhydro-sugars

Galactosan	0.095 ± 0.04	0.35 ± 0.15
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Mannosan	0.28 ± 0.053	0.62 ± 0.13
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Levoglucozan	3.5 ± 1.9	4.9 ± 3.6
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Resin acids

Isopimaric acid	0.005 ± 0.006	0.003 ± 0.002
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Dehydroabietic acid, methyl ester	$0,029 \pm 0.029$	0.049 ± 0.007
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Dehydroabietic acid	1.1 ± 1	1.4 ± 0.25
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Abietic acid	0.012 ± 0.004	0.024 ± 0.006
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