

Supplemental Materials

Table S1.

Method detection limits, retention time, and recovery rates for 20 phenols (n=6).

Table S2.

Coefficients of divergence for PAE profiles between any 2 of 5 sources.

Fig. S1.

Coefficients of divergence of WSI profiles between any 2 of 5 emission sources

Table S1. Method detection limits, retention time, and recovery rates for 20 phenols (n=6)

Compounds	MDL ($\mu\text{g g}^{-1}$)	Retention time (min)	Recovery rate ^a (%)		Recovery rate ^b (%)	
			Mean	RSD ^c	Mean	RSD
phenol	0.04	4.59±0.05	78.7	10.7	91.3	14.2
2-chlorophenol	0.04	4.85±0.05	80.9	9.69	102	15.9
o-cresol	0.02	5.50±0.05	83.5	7.88	94.6	17.7
p/m-xylenol	0.02	5.76±0.05	84.6	8.52	97.9	14.8
2-nitrophenol	0.02	6.55±0.05	90.6	10.4	95.6	16.7
2,4-xylenol	0.02	6.74±0.05	87.8	8.05	84.9	11.6
2,4-dichlorophenol	0.03	7.11±0.05	85.2	8.56	87.5	23.4
2,6-dichlorophenol	0.03	7.54±0.05	82.5	4.53	94.1	13.0
4-chloro-3-cresol	0.02	8.58±0.05	84.0	9.60	94.0	16.5
2,4,6-trichlorophenol	0.03	9.53±0.05	84.5	9.06	95.0	20.7
2,4,5-trichlorophenol	0.03	9.62±0.05	84.5	7.60	97.6	19.1
2,4-dinitrophenol	0.08	11.0±0.05	80.9	9.59	90.9	12.2
4-nitrophenol	0.04	11.4±0.05	91.8	10.9	98.7	18.6
2,3,4,6-tetrachlorophenol	0.02	11.9±0.05	84.2	14.2	92.4	8.15
2,3,4,5-/2,3,5,6-tetrachlorophenol	0.03	12.0±0.05	83.2	9.72	80.6	11.7
2-methyl-4,6-dinitrophenol,	0.03	12.4±0.05	85.4	4.35	87.5	10.7
pentachlorophenol	0.07	14.2±0.05	86.9	5.28	91.6	18.4
2-(1-methyl-n-propyl)-4,6-dinitrophenol	0.02	14.8±0.05	77.7	5.17	89.2	15.3
2-cyclohexyl-4,6-dinitrophenol	0.02	18.2±0.05	90.8	8.18	90.8	14.8

^a Recoveries were obtained based on the $2 \mu\text{g g}^{-1}$ of added standard.

^b Recoveries were obtained based on the $10 \mu\text{g g}^{-1}$ of added standard.

^cRSD: Relative standard deviation.

Table S2. Coefficients of divergence for PAE profiles between any 2 of 5 sources

Sources	CD value	Sources	CD value
GFPP vs. PS	0.383	PS vs. WCC	0.631
GFPP vs. WS	0.332	PS vs. DG	0.373
GFPP vs. WCC	0.638	WS vs. WCC	0.638
GFPP vs. DG	0.122	WS vs. DG	0.598
PS vs. WS	0.086	WCC vs. DG	0.659

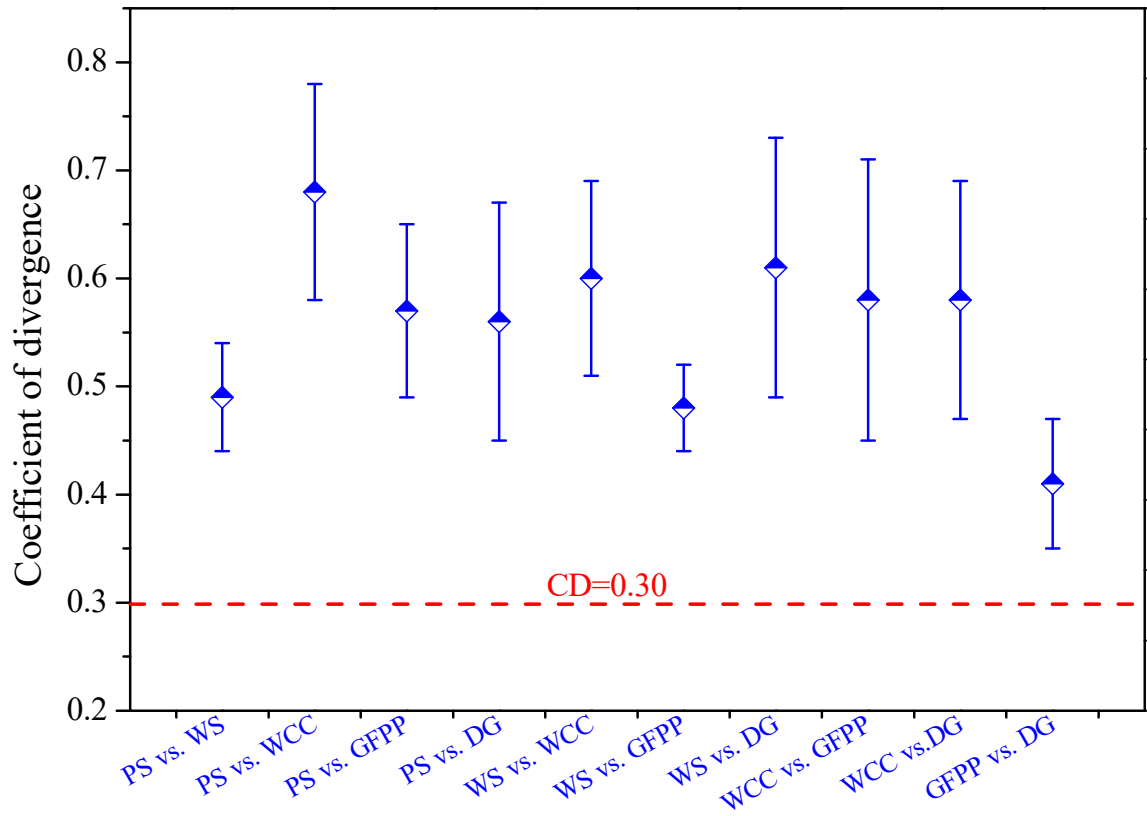


Fig. S1. Coefficients of divergence of WSI profiles between any 2 of 5 emission sources