

Supporting Information

Characterization of PM_{2.5} and particulate PAHs emitted from vehicles via tunnel sampling in different time frames



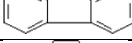
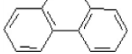
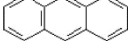

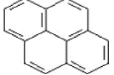

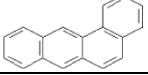
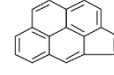
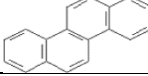
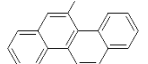
Wei-Chun Wang¹, Nguyen Duy Dat², Kai-Hsien Chi³, Moo-Been Chang¹

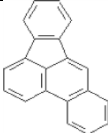
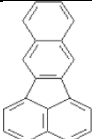
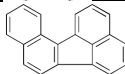
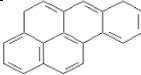


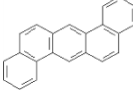
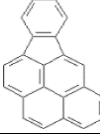
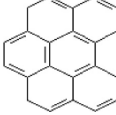
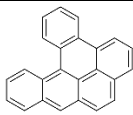
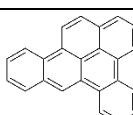
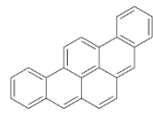
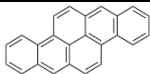
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Table S1. 25 PAHs investigated and their information.

PAH compound	Abbre.	No. of rings	TEF	Structure	15 US EPA PAHs	15 EU PAHs
Acenaphthylene	AcPy	3	0.001 ^a		✓	
Acenaphthene	Acp	3	0.001 ^a		✓	
Fluorene	Flu	3	0.001 ^a		✓	
Phenanthrene	PA	3	0.001 ^a		✓	
Anthracene	Ant	3	0.01 ^a		✓	
Fluoranthene	FL	4	0.001 ^a		✓	
Pyrene	Pyr	4	0.001 ^a		✓	
Benzo[c]fluorene	BcFE	4	20 ^{c,d}			✓
Benzo[a]anthracene	BaA	4	0.1 ^a		✓	✓
Cyclopenta[c,d]pyrene	CYC	4	0.01 ^b			✓
Chrysene	CHR	4	0.01 ^a		✓	✓
5-Methylchrysene	5-MC	4	1 ^e			Additional

Benzo[b]fluoranthene	BbF	5	0.1 ^a		✓	✓
Benzo[k]fluoranthene	BkF	5	0.1 ^a		✓	✓
Benzo[j]fluoranthene	BjF	5	0.1 ^e			✓
Benzo[a]pyrene	BaP	5	1 ^a		✓	✓
Benzo[e]pyrene	BeP	5	0.01 ^e			Additional
Perylene	PER	5	0.001 ^e			Additional
Dibenzo[ah]anthracene	IND	5	1 ^{a,b}		✓	✓
Indeno[123-cd]pyrene	DBA	6	0.1 ^a		✓	✓
Benzo[ghi]perylene	BghiP	6	0.01 ^a		✓	✓
Dibenzo[a,l]pyrene	DBaP	6	10 ^e			✓
Dibenzo[a,e]pyrene	DBP	6	1 ^e			✓
Dibenzo[a,i]pyrene	DBaiP	6	10 ^e			✓
Dibenzo[a,h]pyrene	DBaP	6	10 ^e			✓

^aNisbet and LaGoy (1992), ^bRichter-Brockmann and Achten (2018), ^cU.S.EPA, (2010),

^dAndersson et al. (2015), ^eOEHHA (1994).

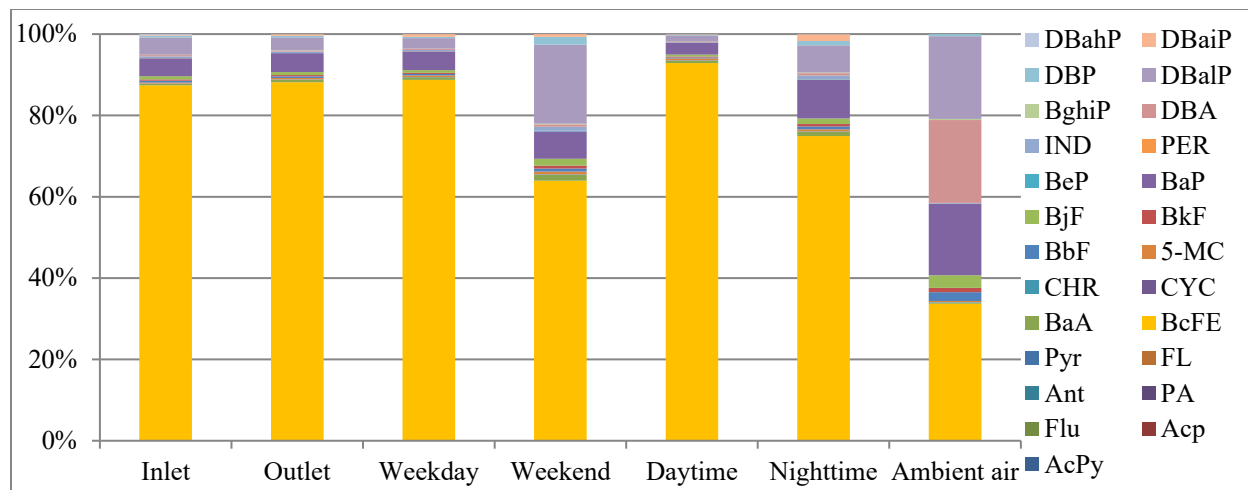


Fig. S1. Contribution of PAH congeners to total TEQ-BaP concentration.