SUPPLEMENTARY MATERIAL

Determination and Similarity Analysis of $PM_{2.5}$ Emission Source Profiles Based on Organic Markers for Monterrey, Mexico

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Table S1. Organic composition of organic markers (ng/mg) for each source emission profile. Codes are per Table 2 of the manuscript; ND = not detected.

Code	CAF	CAR	CAS	TLL	CC	TP	PMX	PSN	QB	RTD	RTN	RP
C19	ND	ND	ND	1.60E+00	2.31E+01	9.56E+00	ND	ND	ND	ND	ND	ND
C20	2.76E+00	ND	ND	5.90E+00	3.89E+02	2.26E+01	ND	ND	7.37E+00	ND	ND	ND
C21	ND	ND	6.61E+01	9.16E+00	ND	2.32E+01	ND	ND	2.51E+01	ND	ND	ND
C22	2.73E+01	ND	4.38E+01	1.44E+02	1.29E+02	1.74E+01	ND	ND	1.62E+01	ND	ND	ND
C23	7.51E+00	4.97E+00	2.96E+01	4.62E+02	3.08E+02	7.00E+01	3.51E+01	ND	2.48E+01	5.10E+01	1.33E+01	ND
C24	6.75E-01	5.32E+00	8.62E+01	8.07E+02	4.54E+02	1.24E+02	1.19E+02	1.23E+02	5.96E+01	1.10E+02	4.91E+01	7.52E+01
C25	1.66E+01	9.77E+00	3.93E+01	1.15E+03	5.51E+02	1.57E+02	1.47E+02	1.59E+02	7.88E+01	1.49E+02	6.63E+01	9.05E+01
C26	ND	3.77E+00	1.20E+01	5.16E+02	2.27E+02	1.15E+02	8.03E+01	1.04E+02	6.00E+01	1.13E+02	4.86E+01	4.92E+01
C27	1.57E+02	1.11E+01	1.43E+01	5.40E+02	2.81E+02	1.34E+02	1.06E+02	1.35E+02	1.09E+02	1.44E+02	6.21E+01	6.24E+01
C28	9.16E+01	1.43E+01	1.51E+01	7.41E+02	2.97E+02	1.83E+02	1.08E+02	1.68E+02	9.73E+01	1.58E+02	6.12E+01	7.63E+01
C29	4.56E+01	2.28E+01	1.47E+01	5.97E+02	3.19E+02	1.41E+02	1.13E+02	1.19E+02	8.57E+01	1.79E+02	7.36E+01	6.47E+01
C30	3.44E+01	1.02E+01	0.00E+00	5.88E+02	2.51E+02	1.18E+02	9.17E+01	9.71E+01	6.99E+01	1.37E+02	5.48E+01	5.33E+01
C31	3.85E+01	9.36E+00	1.50E+01	5.60E+02	2.78E+02	1.43E+02	8.34E+01	1.16E+02	4.13E+01	1.40E+02	5.01E+01	5.20E+01
C32	ND	ND	ND	3.59E+02	1.05E+02	5.74E+01	ND	3.76E+01	2.45E+01	8.03E+01	2.90E+01	6.29E+00
C33	ND	ND	ND	2.16E+02	6.26E+01	4.87E+01	ND	8.64E+00	3.25E+01	5.94E+01	1.95E+01	ND
C34	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.88E+00	ND	ND
HOP1	2.50E+00	ND	ND	6.76E+00	2.08E+01	6.32E+00	3.62E+01	3.08E+01	ND	1.71E+01	1.04E+01	3.23E+00
HOP2	2.99E+00	ND	ND	1.02E+01	1.59E+01	5.52E+00	5.32E+00	ND	ND	1.15E+00	3.04E+00	ND
HOP3	4.54E+00	ND	ND	4.15E+01	5.17E+01	1.70E+01	1.74E+01	ND	ND	3.58E+00	5.64E+00	ND
HOP4	5.28E-01	ND	ND	8.62E+00	1.45E+01	4.49E+00	2.27E+01	ND	ND	7.33E+00	1.26E+00	ND

HOP5	5.95E+00	ND	ND	4.60E+01	7.29E+01	2.06E+01	4.77E+01	ND	ND	1.49E+01	1.08E+01	ND
HOP6	ND	ND	ND	2.29E+01	2.40E+01	7.89E+00	ND	ND	ND	ND	ND	ND
HOP7	ND	ND	ND	1.88E+01	1.65E+01	7.13E+00	ND	ND	ND	ND	ND	ND
HOP8	ND	ND	ND	1.52E+01	1.42E+01	6.47E+00	ND	ND	ND	ND	1.63E+00	ND
HOP9	ND	ND	ND	1.00E+01	1.09E+01	4.08E+00	ND	ND	ND	ND	ND	ND
FLT	2.28E+01	8.91E-01	4.82E+01	1.94E+01	3.49E+01	1.31E+01	6.63E+00	3.72E-01	3.36E+01	8.80E-01	2.04E-01	5.28E+00
ACE	8.76E+00	ND	1.38E+01	8.91E+00	1.40E+01	7.75E+00	ND	ND	2.42E+01	3.48E-01	1.52E-01	1.57E+00
PYR	1.30E+01	5.52E-02	2.84E+01	4.82E+00	1.27E+01	1.16E+01	2.35E-01	3.79E-01	1.90E+01	6.64E-01	6.69E-02	2.02E+00
BaA	1.30E+01	2.11E-02	2.13E+01	6.15E+00	1.08E+01	4.15E+00	1.69E+00	ND	2.80E+01	ND	ND	1.03E+00
CHR	1.56E+02	2.68E-02	2.90E+02	1.60E+01	4.49E+01	1.72E+01	5.10E+00	ND	3.18E+02	ND	ND	4.30E+00
BbF	2.40E+01	ND	1.72E+01	3.43E+01	2.62E+01	8.04E+00	2.18E+00	1.24E+00	2.98E+01	ND	ND	ND
BaP+BeP	1.71E+01	1.43E-01	1.31E+01	1.90E+01	1.53E+01	4.32E+00	5.41E+00	3.14E+00	1.78E+01	1.04E+00	7.83E-01	8.43E-01
PER	2.24E+00	ND	1.56E+00	7.36E+00	5.17E+00	1.51E+00	2.03E-01	ND	3.41E+00	ND	7.15E-02	ND
IPY	1.30E+01	4.50E-02	5.84E-01	2.50E+01	1.31E+01	1.65E+00	ND	8.16E-01	9.40E+00	4.53E-01	4.97E-01	2.77E-01
BPE	8.63E+00	1.54E-01	8.07E-01	3.03E+01	2.72E+01	5.49E+00	ND	9.32E-01	7.02E+00	5.97E-01	4.33E-01	1.22E+00
DaA	2.61E+00	ND	8.41E-02	7.09E+00	6.29E+00	ND	ND	4.04E-02	2.42E+00	ND	8.03E-02	1.64E-02
COR	ND	ND	ND	3.21E+01	3.49E+01	1.45E+01	ND	ND	ND	ND	ND	ND
RET	ND	ND	ND	ND	ND	ND	ND	ND	2.98E+01	ND	ND	ND
LEV	7.81E+03	3.59E+03	1.11E+04	2.92E+03	2.71E+04	1.82E+04	4.46E+04	6.28E+03	1.30E+05	1.37E+04	4.35E+03	4.23E+03
CHO	7.88E+01	6.26E+01	8.08E+01	1.18E+01	2.10E+01	1.45E+01	1.08E+01	1.13E+01	8.95E+00	1.04E+01	3.70E+00	8.28E+00
C10-Acid	ND	ND	ND	ND	2.18E+03	ND	ND	ND	ND	ND	ND	ND
C11-Acid	ND	ND	ND	ND	8.08E+02	ND	ND	ND	ND	ND	ND	ND
C12-Acid	ND	ND	ND	ND	1.85E+02	7.20E+02	ND	5.66E+02	ND	ND	ND	2.03E+02
C13-Acid	ND	ND	ND	ND	8.70E+02	5.16E+02	ND	2.00E+02	ND	ND	ND	7.50E+01
C14-Acid	4.59E+03	1.02E+03	8.02E+03	9.16E+02	1.48E+04	1.18E+03	3.00E+03	4.57E+03	1.84E+03	1.70E+03	1.40E+03	2.12E+03
C15-Acid	1.56E+03	1.17E+03	4.45E+03	6.34E+02	2.87E+03	1.14E+03	2.09E+03	1.98E+03	7.35E+02	1.01E+03	8.66E+02	5.53E+02
C16-Acid	1.93E+04	4.14E+03	2.66E+04	2.26E+03	5.19E+04	3.17E+03	1.09E+04	6.91E+03	5.08E+03	3.67E+03	2.22E+03	1.12E+04
C17-Acid	4.94E+03	9.23E+02	5.74E+03	ND	7.58E+02	1.75E+02	3.89E+02	4.16E+02	6.84E+02	2.60E+02	1.55E+02	1.46E+02
C18-Acid	1.28E+03	4.17E+02	2.62E+03	3.12E+02	9.75E+02	3.50E+02	4.16E+02	4.22E+02	7.57E+02	3.02E+02	1.97E+02	2.75E+02
C19-Acid	6.20E+00	ND	2.22E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND
C20-Acid	ND	ND	7.39E+02	3.37E+01	ND	ND	ND	3.76E+01	1.13E+02	7.15E+01	3.11E+01	2.61E+01
C21-Acid	7.83E+00	ND	9.31E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND
C22-Acid	ND	ND	3.93E+02	ND	ND	ND	3.46E+01	2.24E+01	ND	4.49E+01	2.11E+01	ND
C23-Acid	5.81E+02	ND	6.79E+02	ND	ND	ND	6.72E+01	2.45E+01	2.73E+02	1.06E+02	1.16E+01	ND
C24-Acid	1.35E+02	ND	ND	ND	ND	ND	ND	ND	3.68E+02	6.36E+01	ND	ND
C25-Acid	1.41E+01	ND	4.43E+02	ND	ND	ND	7.45E+01	ND	ND	1.88E+01	ND	3.68E+01
C26-Acid	3.07E+00	ND	ND	ND	ND	ND	7.45E+01	2.80E+01	1.26E+02	1.04E+02	ND	4.43E+01
C27-Acid	ND	ND	ND	ND	ND	ND	6.91E+01	ND	8.66E+01	1.74E+01	ND	ND
C29-Acid	ND	ND	ND	ND	ND	ND	ND	ND	8.22E+01	ND	ND	ND
GUA	ND	ND	ND	1.18E+01	7.18E+00	8.06E+00	ND	1.10E+01	2.84E+00	3.77E+00	ND	ND
MGUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MSYR	ND	ND	ND	ND	ND	ND	ND	ND	1.37E+02	ND	ND	ND
SYA	ND	ND	ND	ND	ND	ND	ND	ND	2.95E+03	ND	ND	ND

VAN	ND	ND	ND	ND	ND	ND	ND	ND	6.73E+02	ND	ND	ND
IVAN	ND	ND	ND	ND	ND	ND	ND	ND	3.48E+02	ND	ND	ND
AB-Acid	ND	ND	ND	ND	ND	ND	ND	ND	6.91E+03	ND	ND	ND
DHAB-Acid	ND	ND	ND	ND	ND	ND	ND	ND	4.50E+03	ND	ND	ND
ODHAB-Acid	8.43E+02	ND	6.87E+02	ND	1.45E+01	5.12E+01	0.00E+00	7.75E+01	3.31E+03	8.53E+01	4.04E+01	ND
PIM-Acid	ND	ND	ND	ND	ND	ND	ND	ND	9.43E+02	ND	ND	ND
IPIM-Acid	ND	ND	ND	ND	ND	ND	ND	ND	8.08E+02	ND	ND	ND
CPIN-Acid	ND	ND	ND	ND	ND	ND	ND	1.20E+02	ND	8.18E+01	4.59E+01	4.21E+00
OLE-Acid	1.01E+03	3.41E+02	2.41E+03	ND	ND	ND	4.00E+01	9.95E+01	5.12E+02	2.10E+01	3.83E+01	8.98E+01
OC	5.56E+05	9.91E+04	8.58E+05	1.97E+05	4.62E+05	1.55E+05	2.33E+05	2.36E+05	5.14E+05	1.34E+05	1.59E+05	1.57E+05

Table S2. Organic composition uncertainty of organic markers (ng/mg) for each source emission profile. Codes are per Table 2 of the manuscript; ND = not detected.

Code	CAF	CAR	CAS	TLL	CC	TP	PMX	PSN	QB	RTD	RTN	RP
C19	ND	ND	ND	3.19E-01	1.91E+00	4.62E+00	ND	ND	ND	ND	ND	ND
C20	5.53E-01	ND	ND	1.18E+00	4.51E+00	7.79E+01	ND	ND	1.47E+00	ND	ND	ND
C21	ND	ND	1.32E+01	1.83E+00	4.64E+00	ND	ND	ND	5.03E+00	ND	ND	ND
C22	5.46E+00	ND	8.76E+00	2.88E+01	3.48E+00	2.58E+01	ND	ND	3.23E+00	ND	ND	ND
C23	1.50E+00	9.94E-01	5.93E+00	9.23E+01	1.40E+01	6.16E+01	7.01E+00	ND	4.97E+00	1.02E+01	2.67E+00	ND
C24	1.35E-01	1.06E+00	1.72E+01	1.61E+02	2.49E+01	9.09E+01	2.38E+01	2.47E+01	1.19E+01	2.21E+01	9.83E+00	1.50E+01
C25	3.33E+00	1.95E+00	7.86E+00	2.31E+02	3.15E+01	1.10E+02	2.95E+01	3.19E+01	1.58E+01	2.98E+01	1.33E+01	1.81E+01
C26	ND	7.54E-01	2.40E+00	1.03E+02	2.30E+01	4.54E+01	1.61E+01	2.07E+01	1.20E+01	2.25E+01	9.72E+00	9.83E+00
C27	3.14E+01	2.22E+00	2.86E+00	1.08E+02	2.67E+01	5.61E+01	2.12E+01	2.69E+01	2.17E+01	2.87E+01	1.24E+01	1.25E+01
C28	1.83E+01	2.85E+00	3.02E+00	1.48E+02	3.66E+01	5.93E+01	2.17E+01	3.37E+01	1.95E+01	3.16E+01	1.22E+01	1.53E+01
C29	9.12E+00	4.56E+00	2.94E+00	1.19E+02	2.82E+01	6.38E+01	2.26E+01	2.37E+01	1.71E+01	3.59E+01	1.47E+01	1.29E+01
C30	6.88E+00	2.03E+00	ND	1.18E+02	2.37E+01	5.01E+01	1.83E+01	1.94E+01	1.40E+01	2.75E+01	1.10E+01	1.07E+01
C31	7.70E+00	1.87E+00	3.00E+00	1.12E+02	2.87E+01	5.56E+01	1.67E+01	2.31E+01	8.25E+00	2.79E+01	1.00E+01	1.04E+01
C32	ND	ND	ND	7.18E+01	1.15E+01	2.10E+01	ND	7.52E+00	4.90E+00	1.61E+01	5.80E+00	1.26E+00
C33	ND	ND	ND	4.32E+01	9.74E+00	1.25E+01	ND	1.73E+00	6.50E+00	1.19E+01	3.89E+00	ND
C34	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.18E+00	ND	ND
HOP1	5.00E-01	ND	ND	1.35E+00	1.26E+00	4.16E+00	7.25E+00	6.16E+00	ND	3.42E+00	2.08E+00	6.46E-01
HOP2	5.99E-01	ND	ND	2.04E+00	1.10E+00	3.18E+00	1.06E+00	ND	ND	2.31E-01	6.08E-01	ND
HOP3	9.09E-01	ND	ND	8.30E+00	3.40E+00	1.03E+01	3.48E+00	ND	ND	7.16E-01	1.13E+00	ND
HOP4	1.06E-01	ND	ND	1.72E+00	8.97E-01	2.89E+00	4.55E+00	ND	ND	1.47E+00	2.52E-01	ND
HOP5	1.19E+00	ND	ND	9.20E+00	4.13E+00	1.46E+01	9.54E+00	ND	ND	2.98E+00	2.17E+00	ND
HOP6	ND	ND	ND	4.59E+00	1.58E+00	4.79E+00	ND	ND	ND	ND	ND	ND
HOP7	ND	ND	ND	3.76E+00	1.43E+00	3.31E+00	ND	ND	ND	ND	ND	ND
HOP8	ND	ND	ND	3.03E+00	1.29E+00	2.84E+00	ND	ND	ND	ND	3.27E-01	ND
HOP9	ND	ND	ND	2.01E+00	8.17E-01	2.19E+00	ND	ND	ND	ND	ND	ND

FLT	4.56E+00	1.78E-01	9.63E+00	3.89E+00	2.62E+00	6.97E+00	1.33E+00	7.44E-02	6.73E+00	1.76E-01	4.08E-02	1.06E+00
ACE	1.75E+00	ND	2.76E+00	1.78E+00	1.55E+00	2.79E+00	ND	ND	4.83E+00	6.96E-02	3.04E-02	3.13E-01
PYR	2.59E+00	1.10E-02	5.67E+00	9.63E-01	2.31E+00	2.54E+00	4.71E-02	7.58E-02	3.79E+00	1.33E-01	1.34E-02	4.05E-01
BaA	2.60E+00	4.22E-03	4.27E+00	1.23E+00	8.30E-01	2.16E+00	3.38E-01	ND	5.60E+00	ND	ND	2.06E-01
CHR	3.13E+01	5.36E-03	5.80E+01	3.21E+00	3.44E+00	8.99E+00	1.02E+00	ND	6.35E+01	ND	ND	8.60E-01
BbF	4.81E+00	ND	3.44E+00	6.85E+00	1.61E+00	5.24E+00	4.36E-01	2.47E-01	5.96E+00	ND	ND	ND
BaP+BeP	3.42E+00	2.86E-02	2.62E+00	3.80E+00	8.64E-01	3.06E+00	1.08E+00	6.28E-01	3.56E+00	2.07E-01	1.57E-01	1.69E-01
PER	4.48E-01	ND	3.12E-01	1.47E+00	3.02E-01	1.03E+00	4.06E-02	ND	6.82E-01	ND	1.43E-02	ND
IPY	2.60E+00	9.00E-03	1.17E-01	5.00E+00	3.31E-01	2.63E+00	ND	1.63E-01	1.88E+00	9.07E-02	9.94E-02	5.54E-02
BPE	1.73E+00	3.08E-02	1.61E-01	6.07E+00	1.10E+00	5.45E+00	ND	1.86E-01	1.40E+00	1.19E-01	8.65E-02	2.45E-01
DaA	5.22E-01	ND	1.68E-02	1.42E+00	ND	1.26E+00	ND	8.07E-03	4.84E-01	ND	1.61E-02	3.28E-03
COR	ND	ND	ND	6.41E+00	2.91E+00	6.98E+00	ND	ND	ND	ND	ND	ND
RET	1.56E+03	7.18E+02	2.21E+03	5.84E+02	3.64E+03	5.42E+03	8.93E+03	1.26E+03	2.60E+04	2.74E+03	8.70E+02	8.45E+02
LEV	1.58E+01	1.25E+01	1.62E+01	2.36E+00	2.90E+00	4.19E+00	2.17E+00	2.27E+00	1.79E+00	2.08E+00	7.41E-01	1.66E+00
CHO	ND	ND	ND	ND	ND	4.36E+02	ND	ND	ND	ND	ND	ND
C10-Acid	ND	ND	ND	ND	ND	1.62E+02	ND	ND	ND	ND	ND	ND
C11-Acid	ND	ND	ND	ND	1.44E+02	3.70E+01	ND	1.13E+02	ND	ND	ND	4.06E+01
C12-Acid	ND	ND	ND	ND	1.03E+02	1.74E+02	ND	4.00E+01	ND	ND	ND	1.50E+01
C13-Acid	9.19E+02	2.05E+02	1.60E+03	1.83E+02	2.36E+02	2.96E+03	6.00E+02	9.14E+02	3.69E+02	3.39E+02	2.81E+02	4.25E+02
C14-Acid	3.11E+02	2.34E+02	8.90E+02	1.27E+02	2.27E+02	5.74E+02	4.18E+02	3.97E+02	1.47E+02	2.02E+02	1.73E+02	1.11E+02
C15-Acid	3.86E+03	8.28E+02	5.31E+03	4.52E+02	6.35E+02	1.04E+04	2.18E+03	1.38E+03	1.02E+03	7.35E+02	4.45E+02	2.25E+03
C16-Acid	9.88E+02	1.85E+02	1.15E+03	ND	3.51E+01	1.52E+02	7.77E+01	8.31E+01	1.37E+02	5.20E+01	3.10E+01	2.93E+01
C17-Acid	2.56E+02	8.35E+01	5.25E+02	6.24E+01	7.00E+01	1.95E+02	8.32E+01	8.44E+01	1.51E+02	6.03E+01	3.94E+01	5.49E+01
C18-Acid	1.24E+00	ND	4.43E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND
C19-Acid	ND	ND	1.48E+02	6.74E+00	ND	ND	ND	7.52E+00	2.26E+01	1.43E+01	6.21E+00	5.21E+00
C20-Acid	1.57E+00	ND	1.86E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND
C21-Acid	ND	ND	7.86E+01	ND	ND	ND	6.93E+00	4.48E+00	ND	8.98E+00	4.23E+00	ND
C22-Acid	1.16E+02	ND	1.36E+02	ND	ND	ND	1.34E+01	4.90E+00	5.47E+01	2.13E+01	2.32E+00	ND
C23-Acid	2.70E+01	ND	ND	ND	ND	ND	ND	ND	7.37E+01	1.27E+01	ND	ND
C24-Acid	2.82E+00	ND	8.86E+01	ND	ND	ND	1.49E+01	ND	ND	3.76E+00	ND	7.35E+00
C25-Acid	6.14E-01	ND	ND	ND	ND	ND	1.49E+01	5.60E+00	2.52E+01	2.07E+01	ND	8.86E+00
C26-Acid	ND	ND	ND	ND	ND	ND	1.38E+01	ND	1.73E+01	3.48E+00	ND	ND
C27-Acid	ND	ND	ND	ND	ND	ND	ND	ND	1.64E+01	ND	ND	ND
C29-Acid	ND	ND	ND	2.36E+00	1.61E+00	1.44E+00	ND	2.20E+00	5.67E-01	7.54E-01	ND	ND
GUA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

MGUA	ND	ND	ND	ND	ND	ND	ND	ND	2.74E+01	ND	ND	ND
MSYR	ND	ND	ND	ND	ND	ND	ND	ND	5.91E+02	ND	ND	ND
SYA	ND	ND	ND	ND	ND	ND	ND	ND	1.35E+02	ND	ND	ND
VAN	ND	ND	ND	ND	ND	ND	ND	ND	6.96E+01	ND	ND	ND
IVAN	ND	ND	ND	ND	ND	ND	ND	ND	5.96E+00	ND	ND	ND
AB-Acid	ND	ND	ND	ND	ND	ND	ND	ND	1.38E+03	ND	ND	ND
DHAB-Acid	ND	ND	ND	ND	ND	ND	ND	ND	8.99E+02	ND	ND	ND
ODHAB-Acid	1.69E+02	ND	1.37E+02	ND	1.02E+01	2.90E+00	ND	1.55E+01	6.63E+02	1.71E+01	8.08E+00	ND
PIM-Acid	ND	ND	ND	ND	ND	ND	ND	ND	1.89E+02	ND	ND	ND
IPIM-Acid	ND	ND	ND	ND	ND	ND	ND	ND	1.62E+02	ND	ND	ND
CPIN-Acid	ND	ND	ND	ND	ND	ND	ND	2.40E+01	ND	1.64E+01	9.17E+00	8.43E-01
OLE-Acid	2.02E+02	6.81E+01	4.83E+02	ND	ND	ND	8.01E+00	1.99E+01	1.02E+02	4.20E+00	7.66E+00	1.80E+01
OC	5.56E+05	9.91E+04	8.58E+05	1.97E+05	4.62E+05	1.55E+05	2.33E+05	2.36E+05	5.14E+05	1.34E+05	1.59E+05	1.57E+05