



Corrigendum to **“Quantifying organic matter and functional groups in particulate matter filter samples from the southeastern United States – Part 1: Methods” published in Atmos. Meas. Tech., 12, 5391–5415, 2019**

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This corrigendum corrects Table 2. The carbon atom per functional group ratios were incorrect for the saturated hydrocarbon (aCH) and unsaturated hydrocarbon (unsCH) functional groups. Please find the corrected values for “Ratio (λ)” in Table 2 (fourth column) of this corrigendum.

In addition, Sect. 3.5.2 discussing the method detection limits (MDLs) reports that a value of “MDL-2” or “MDL⁻²” was used to replace functional group concentrations below the corresponding MDLs. This is a publication error, and should read “MDL/2”.

Table 2. Summary of calibration model parameters and outputs. Functional groups calibrated but not reported in the final models are also included below the first horizontal line.

Functional group	Method	Dynamic range ($\mu\text{g m}^{-3}$) ¹	Ratio (λ) ²	Num. chems. ³	Factors (RMSECV)	Standards test set coef. of det. (R^2)	MDL ($\mu\text{g m}^{-3}$)	Percentage of ambient samples above MDL (%)	Median concentration in samples ($\mu\text{g m}^{-3}$)	Sampling uncertainty ($\mu\text{g m}^{-3}$, %) ⁴
Saturated hydrocarbon (aCH)	Calibrated	0.002 to 1.2	0.5	13	20	0.99	0.26	94	0.90	0.15, 16 %
Carboxylic acids (COOH)	Calibrated	0.04 to 3.3	1	6	15	0.98	0.26	84	0.63	0.15, 28 %
Oxalate carbonyl (oxOCO)	Calibrated	0.07 to 0.65	1	2	23	0.93	0.04	99	0.27	0.04, 18 %
Non-acid carbonyl (naCO)	Partitioned	–	1	–	–	–	0.04	92	0.25	0.08, 26 %
Alcohol (aCOH)	Calibrated	0.04 to 7.0	0.5	7	25	0.98	0.24	88	0.60	0.13, 25 %
Unsaturated hydrocarbon (unsCH) ⁵	Calibrated	0.002 to 0.39	1	4	25	0.99	0.08	12	0.04	0.03, 21 %
Non-oxalate carbonyl (noxCO)	Calibrated	0.04 to 2.6	–	10	19	0.98	0.10	99	0.64	0.04, 18 %
Organic matter (OM)	Predicted as sum	–	–	20	–	–	0.45	80	2.1	0.38, 14 %
Organic carbon (OC)	Predicted as sum	–	–	20	–	–	0.25	81	1.0	0.19, 14 %

¹ Dynamic range of the standards included for each functional group, as well as the num. chems., factors, and standards test set coef. of det. (R^2), could only be tabulated for calibrated functional groups. The concentrations are estimated based on the volume of air collected at 16.7 L min^{-1} for 24 h. ² The ratio used in summing to OC and OM is the ratio of the number of C atoms per functional group, represented as λ . ³ The number of chemicals ("num. chems.") corresponds to the number of pure chemicals that contained the particular functional group. ⁴ Values are reported with significant digits determined based on the sampling uncertainty (last column) and the number of significant digits afforded by the high-precision balance used to weigh the laboratory-standard filters. ⁵ Most unsCH concentrations in ambient samples were below MDL and were not reported or used in predicting OM, OC concentrations.