

Method Name	Pollutant Measured	Method 301 Validation	Other Validation	External Peer Review – Internal EPA Peer Review	Other External Review	References	Contact Person
Emission Factor Determination by the Carbon Balance Method	Non-specific. This method can be used to measure multiple target analytes alongside a conserved element, such as carbon. Typical application of this method is for emission factor determination from open area combustion sources.	No	Yes – EPA field studies employing this method cited in method reference section	Internally reviewed by Measurement Technology Group at EPA	N/A	<p>Aurell, J., Barnes M., Gullett, B.K., Holder, A., Eninger, R., Methodology for Characterizing Emissions from Small (0.5-2 MTD) Batch-Fed Gasification Systems Using Multiple Waste Compositions. <i>Waste Management</i> 2019, Volume 87, 398-406.</p> <p>Dhammapala, R.; Claiborn, C.; Corkill, J.; Gullett, B., Particulate emissions from wheat and Kentucky bluegrass stubble burning in eastern Washington and northern Idaho. <i>Atmos Environ</i> 2006, 40 (6), 1007-1015.</p> <p>Nelson, R. M., Jr., An Evaluation of the Carbon Balance Technique for Estimating Emission Factors and Fuel Consumption in Forest Fires. <i>U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station, Asheville, NC, USA 1982, Research Paper SE-231.</i></p>	David Nash, nash.dave@epa.gov 919-541-9425

					<p>Aurell, J.; Hubble, D.; Gullett, B. K.; Holder, A.; Washburn, E., Characterization of emissions from liquid fuel and propane open burns. <i>Fire Technology</i> 2017, <i>53</i>, 2023-2038.</p> <p>Aurell, J., Gullett, B.K., Tabor, D., Emissions from southeastern U.S. Grasslands and pine savannas: Comparison of aerial and ground field measurements with laboratory burns. <i>Atmos Environ</i> 2015, <i>111</i>, 170-178.</p> <p>Khan, B.; Hays, M. D.; Geron, C.; Jetter, J., Differences in the OC/EC Ratios that Characterize Ambient and Source Aerosols due to Thermal-Optical Analysis. <i>Aerosol Science and Technology</i> 2012, <i>46</i> (2), 127-137.</p>	
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