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	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. *Waste Management* **2019,** Volume 87, 398-406. Dhammapala, R.; Claiborn, C.; Corkill, J.; Gullett, B., Particulate emissions from wheat and Kentucky bluegrass stubble burning in eastern Washington and northern Idaho. *Atmos Environ* **2006,** *40* (6), 1007-1015. Nelson, R. M., Jr., An Evaluation of the Carbon Balance Technique for Estimating Emission Factors and Fuel Consumption in Forest Fires. *U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station, Asheville, NC, USA* **1982,** *Research Paper SE-231*.	David Nash, nash.dave@epa.gov 919-541-9425

						Aurell, J.; Hubble, D.; Gullett, B. K.; Holder, A.; Washburn, E., Characterization of emissions from liquid fuel and propane open burns. *Fire Technology* **2017,** *53*, 2023-2038. 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. *Atmos Environ* **2015**, 111, 170-178. 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. *Aerosol Science and Technology* **2012,** *46* (2), 127-137.	