


**ENTHALPY ANALYTICAL, INC.**

800-1 CAPITOLA DRIVE  
DURHAM NC 27713  
919 850 4392

1320 HIGHWAY 3 SOUTH  
LEAGUE CITY TX 77573  
832 632 1087

ENTHALPYSALES@ENTHALPY.COM

**DUNS: 867812539**

**CAGE CODE: 3TTT6**

**NAICS CODES INCLUDE, BUT NOT LIMITED TO: 541380, 541620, & 541690**

## STATEMENT OF CAPABILITIES

Enthalpy Analytical, Inc. is a leading provider of comprehensive analytical services for pollutants and analytes in gaseous matrices. We specialize in air quality and are analytical experts in EPA, NCASI, ASTM, and State-Specific Methodologies.

### CORE CAPABILITIES

- Air pollution emissions measurement for VOCs, HAPs, and other analytes via 40 CFR Part 60 EPA promulgated methods
- Low level ambient air quality monitoring via EPA's Toxic Organic (TO) Compendium
- GC, GC/MS, HPLC, IC, SPEC, FTIR laboratory instruments
- Large inventory of cleaned and certified sampling canisters and flow controllers for air sample collection
- Technical assistance for determining the best sampling techniques for routine or unusual compounds in air
- Flexible on-site analytical capabilities

### PAST PERFORMANCE

- EPA START Contract Emergency Response  
Enthalpy Analytical, Inc. provided sampling equipment and analysis for testing the area surrounding an un-permitted landfill that was on fire. We provided customized sampling equipment to the testing site within 12 hours of the development of the sampling scope. TO-15 analytical results were provided within 24 hours of receipt of the samples in order to quickly assess potential human exposure. Assistance collecting Modified TO-13A samples was provided and analytical results for sorbent samples supported data collected on-site by the EPA mobile laboratory.
- Ozone Precursor Analysis  
VOC, HAP, and GHG emissions from upstream production of oil and natural gas is of concern due to ozone NAAQS exceedences in areas of increased production. EPA funded a project to collect drive-by data to quickly monitor emissions from production sources. Enthalpy was consulted to help develop sampling protocol for Ozone Precursors using canisters and provided hundreds of canisters for the study. Subsequent analysis was conducted using EPA Technical Assistance Document - EPA-600-R-8-161 as well as methane analysis to support mobile instrumentation.
- EPA Method 318, Method 320, Method 321  
Enthalpy is one of the only companies in the industry that has one of the field's foremost experts in FTIR Spectroscopy -- Dr. Grant Plummer. Dr. Plummer is a primary author of EPA Method 320, "Vapor Phase Organic & Inorganic Emissions by Extractive FTIR," the FTIR Protocol, and NIOSH Method 3800. Dr. Plummer is regularly called on by regulators, air quality testers, and industry to consult on difficult, high profile problems that require attention to detail and rock-solid science.

## DIFFERENTIATORS

- Specialty laboratory focusing solely on air analysis
- Test program development assistance for scientifically robust collection techniques
- Sterling reputation with state government regulatory agencies
- Complete QA/QC documentation in all reports for full transparency and trustworthy data
- Fast turnaround time and response for time critical projects
- National Environmental Laboratory Accreditation (NELAC) with:  
LADEQ, NJDEP, TCEQ, VELAP, PADEP

## COMPANY DATA

- Small business located in Research Triangle Park, North Carolina
- In business since 1993
- Two (2) Ph. D Scientists, two (2) Professional Engineers (P.E.), four (4) Project Managers, four (4) Quality Assurance Associates, and 20 Analysts and Technicians
- 13 Gas Chromatographs instruments, four (4) GC/MS instruments, seven (7) HPLC instruments, four (4) Ion Chromatography systems, three (3) UV/VIS Spectrophotometers, and four (4) FTIR Spectrometers
- Enthalpy provides lab support for over 2,000 projects annually

DUNS: 867812539

CAGE CODE: 3TTT6

NAICS INCLUDE, BUT NOT LIMITED TO: 541380, 541620, & 541690

