

Aerosol Chemical Speciation Monitor (ACSM...or mini-AMS)

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Background info

- Designed for **continuous monitoring** of aerosol composition (quantitative measurements of organics, ammonium, nitrate, sulfate, chloride)
- Builds on Q and ToF AMS concepts - Same vaporizer, ionizer, analysis (PMF)
- Limited sizing information

Properties

- Simpler to operate and maintain
- No extensive post-processing of data required
- Stable over extended periods of time (Long term unattended operation)
- Smaller size; Lower cost
- Ideal for
 - Routine monitoring of local and regional air quality
 - Continuous emissions monitoring at hazardous waste incinerators, power plants, and manufacturing facilities
 - Process control monitoring
- Lower sensitivity

ACSM

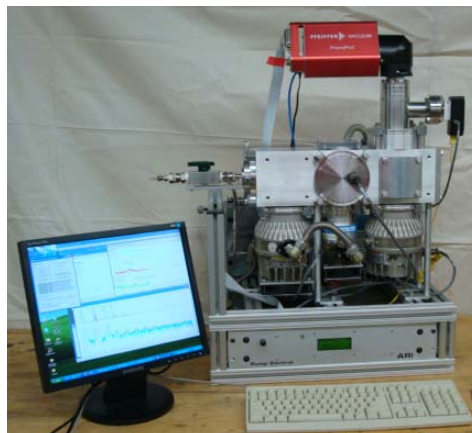
Size:

18"D x 22"W x 24"H
(46 cm x 56 cm x 61 cm).

Weight: 140 lbs
(64kg)

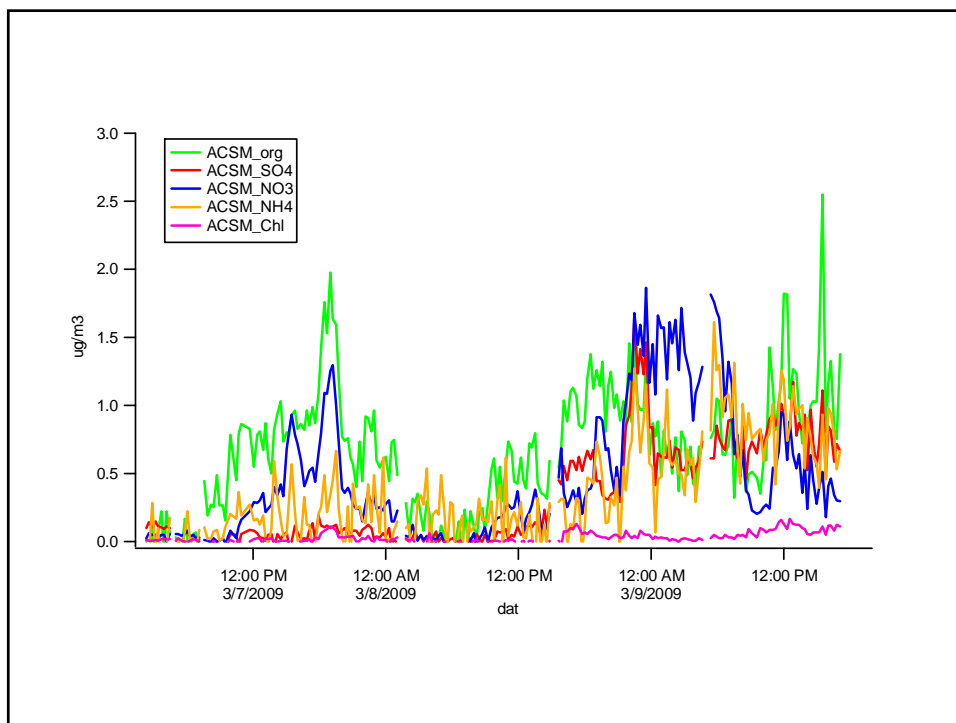
Power: 300W

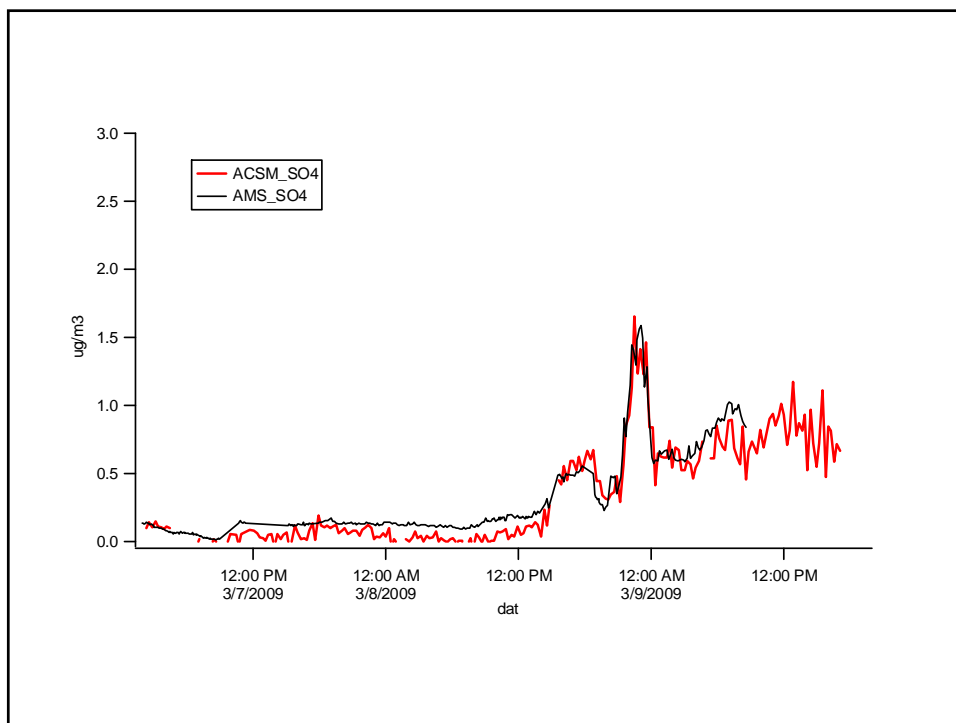
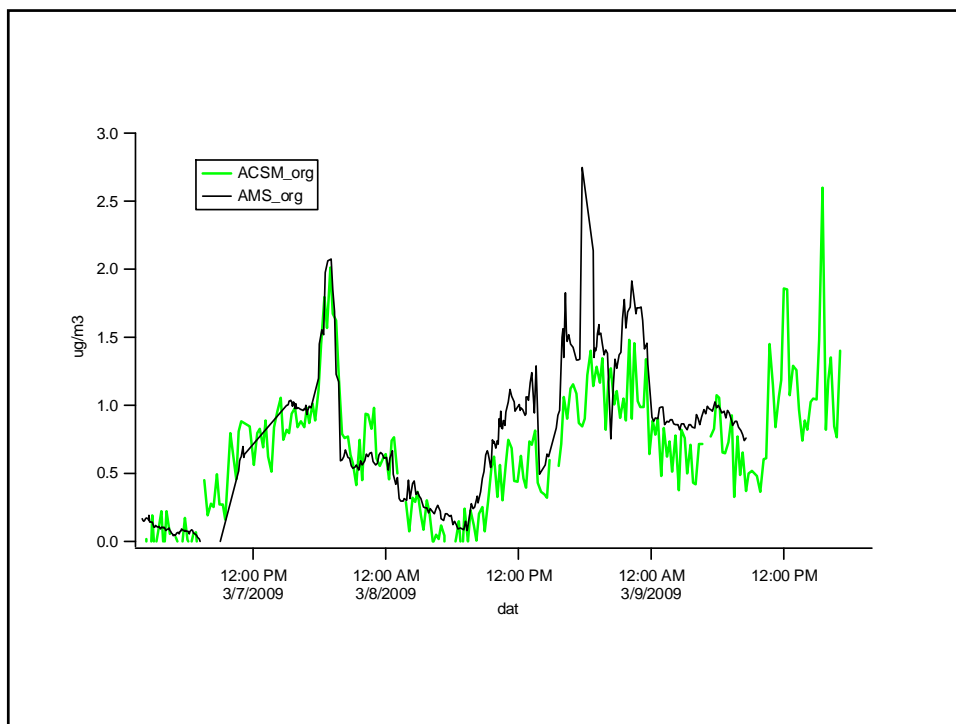
universal AC power; 120/240
VAC, 50/60hz

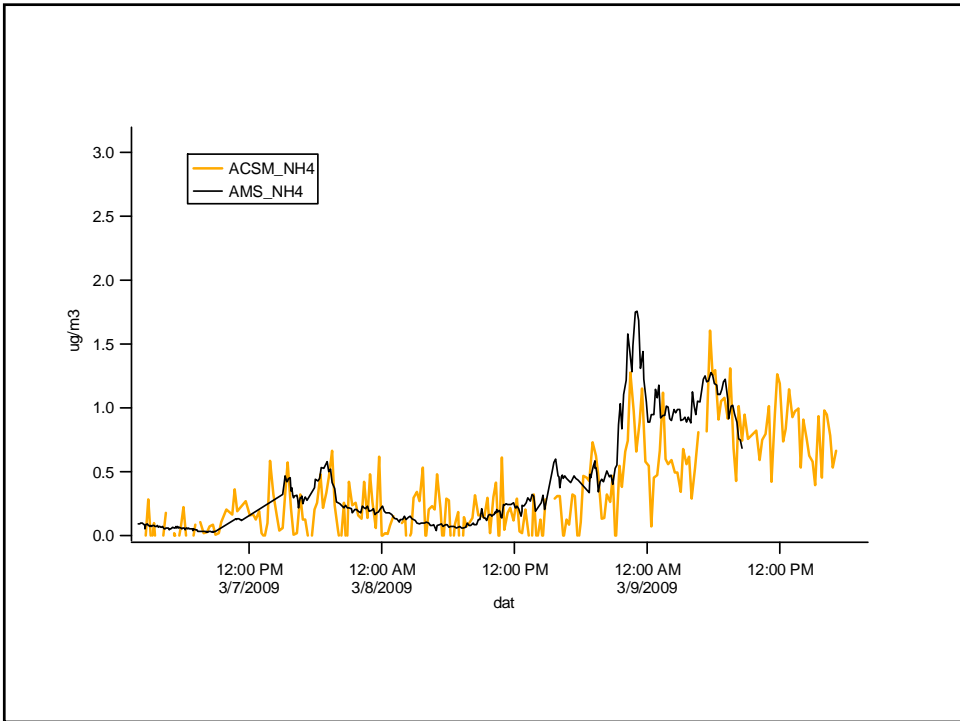
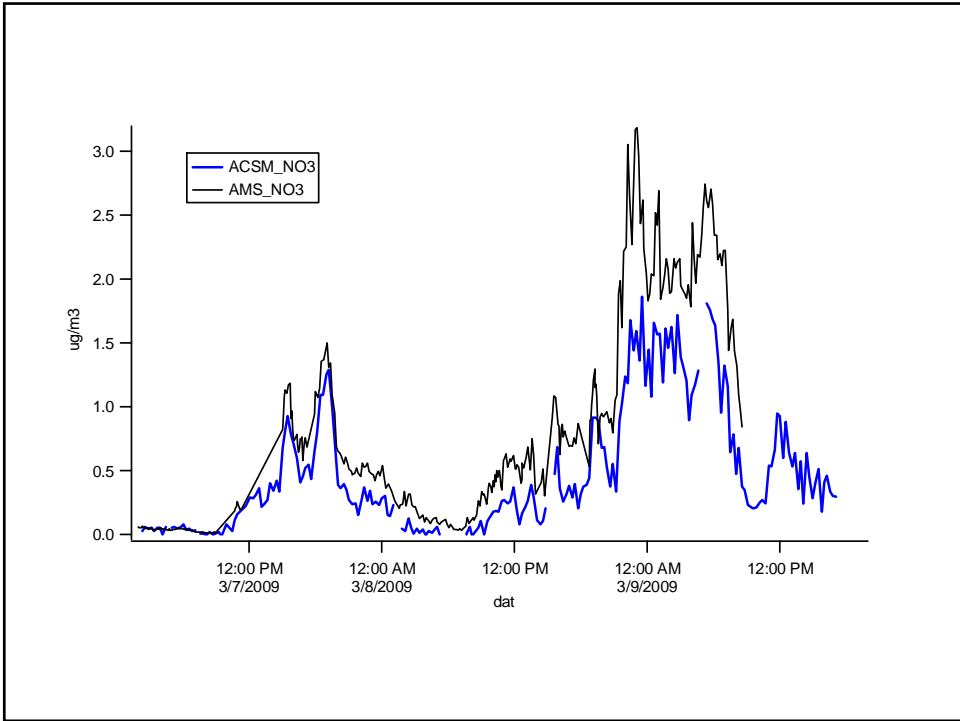


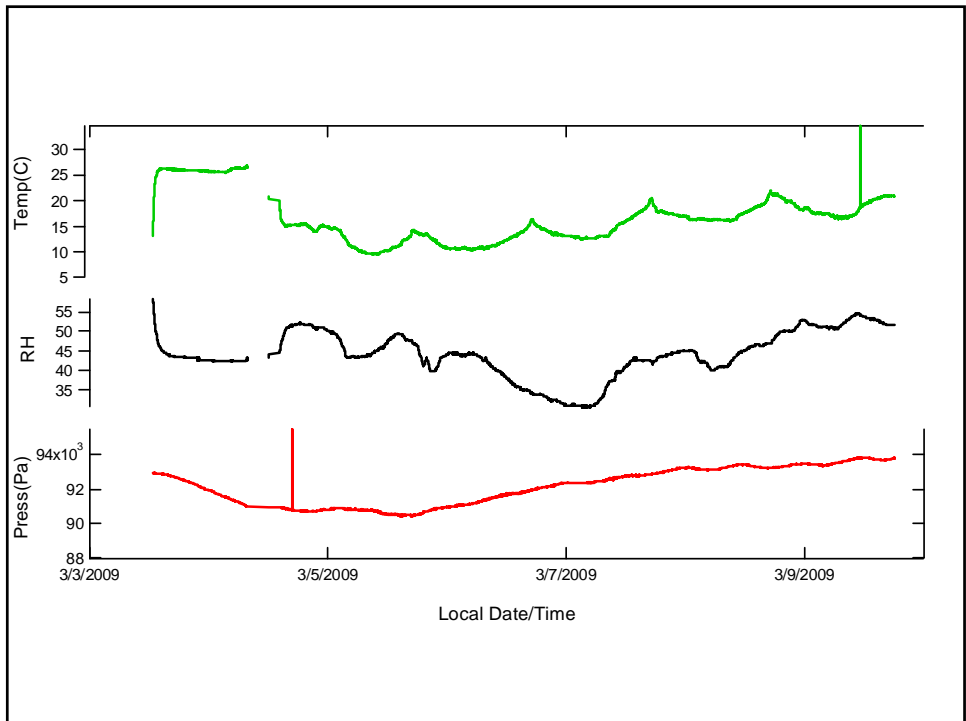
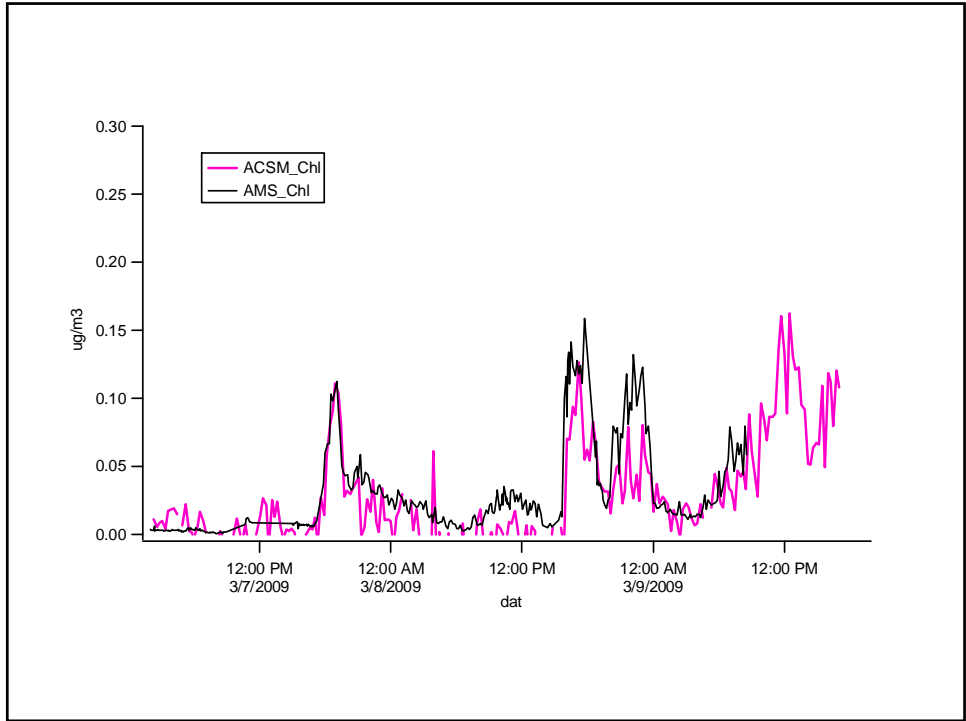
DAURE: First Deployment!

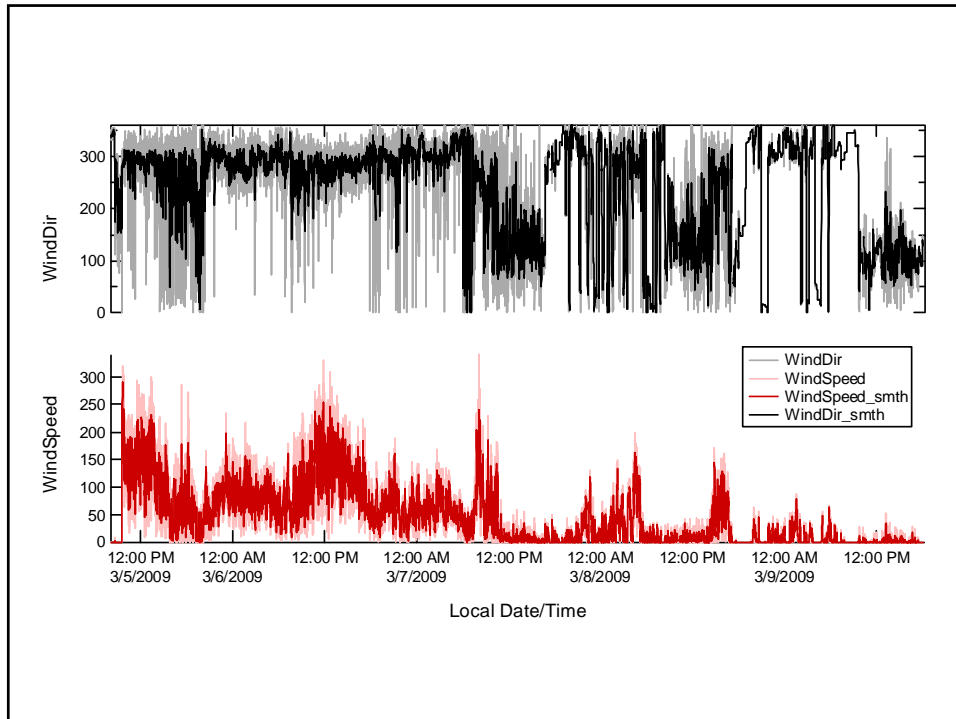
- Goal
 - Compare loadings to AMS
 - Determine detection limits











Future deployments

- May, 2009: Houston
- August, 2009: Queens College New York