

# Community Air Monitoring Plan

## Appendix I

California Statewide Mobile Monitoring Initiative (SMMI)  
List of Pollutants and Methods



July 3, 2025



The Statewide Mobile Monitoring Initiative is part of California Climate Investments, a statewide initiative that puts billions of Cap-and-Trade dollars to work reducing greenhouse gas emissions, strengthening the economy, and improving public health and the environment – particularly in disadvantaged communities.

# Aclima Mobile Platform

| Organization | Pollutant/Parameter                  | Method                                                                                                                                                                             |
|--------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aclima       | Nitrogen Dioxide (NO <sub>2</sub> )  | Aclima Mobile Node NO <sub>2</sub> - Electrochemical Sensor, detected as O <sub>3</sub> + NO <sub>2</sub> , with calculated by difference in combination with method amn-o3 (1003) |
| Aclima       | PM <sub>2.5</sub> - Local Conditions | Aclima Mobile Node PM <sub>2.5</sub> - Optical Particle Counter                                                                                                                    |
| Aclima       | Ozone                                | Aclima Mobile Node O <sub>3</sub> - UV Absorption at 0.5 Hz, interpolated to 1 Hz                                                                                                  |
| Aclima       | Nitric Oxide (NO)                    | Aclima Mobile Node NO - Electrochemical, with running baseline correction                                                                                                          |
| Aclima       | Carbon Dioxide (dry mixing ratio)    | Aclima Mobile Node CO <sub>2</sub> - Non-dispersive IR Absorption.                                                                                                                 |
| Aclima       | Carbon Monoxide                      | Aclima Mobile Node CO - Electrochemical                                                                                                                                            |
| Aclima       | Total Volatile Organic Compounds     | Aclima Mobile Node VOC - photoionization detection, calibrated as iso-butylene                                                                                                     |
| Aclima       | Particle Number, 0.3-0.5 µm          | Aclima Mobile Node PM <sub>2.5</sub> - Optical Particle Counter                                                                                                                    |
| Aclima       | Particle Number, 0.5-0.7 µm          | Aclima Mobile Node PM <sub>2.5</sub> - Optical Particle Counter                                                                                                                    |
| Aclima       | Particle Number, 0.7-1.0 µm          | Aclima Mobile Node PM <sub>2.5</sub> - Optical Particle Counter                                                                                                                    |
| Aclima       | Particle Number, 1.0-1.5 µm          | Aclima Mobile Node PM <sub>2.5</sub> - Optical Particle Counter                                                                                                                    |
| Aclima       | Particle Number, 1.5-2.0 µm          | Aclima Mobile Node PM <sub>2.5</sub> - Optical Particle Counter                                                                                                                    |
| Aclima       | Particle Number, 2.0-2.5 µm          | Aclima Mobile Node PM <sub>2.5</sub> - Optical Particle Counter                                                                                                                    |
| Aclima       | Particle Number, 2.5-10 µm           | Aclima Mobile Node PM <sub>2.5</sub> - Optical Particle Counter                                                                                                                    |

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|--------|------------------------------------------|--------------------------------------------------------------------------------------|
| Aclima | Black Carbon PM <sub>2.5</sub> at 880 nm | Aclima Mobile Node BC - Aethalometer, using 2.5um size cut cyclone                   |
| Aclima | UV Carbon PM <sub>2.5</sub> at 375 nm    | Aclima Mobile Node BC - Aethalometer, using 2.5um size cut cyclone                   |
| Aclima | Ethane (dry mixing ratio)                | Aclima Mobile Node Methane/Ethane - Mid-IR Laser Absorption, temperature stabilized. |
| Aclima | Methane (dry mixing ratio)               | Aclima Mobile Node Methane/Ethane - Mid-IR Laser Absorption, temperature stabilized. |
| Aclima | Wind Speed - Resultant                   | 2 dimensional sonic anemometer                                                       |
| Aclima | Wind Direction - Resultant               | 2 dimensional sonic anemometer                                                       |

## UC Berkeley Mobile Lab

| Organization | Pollutant/Parameter             | Method                                                                   |
|--------------|---------------------------------|--------------------------------------------------------------------------|
| Berkeley     | Benzene                         | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer |
| Berkeley     | Toluene                         | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer |
| Berkeley     | Sum of Ethylbenzene and Xylenes | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer |
| Berkeley     | Acrolein                        | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer |
| Berkeley     | Methane Thiol                   | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer |
| Berkeley     | Dimethyl Sulfide                | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer |
| Berkeley     | Napthalene                      | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer |

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|----------|-----------------------------------------------|-------------------------------------------------------------------------------------|
| Berkeley | Sum of Acetone and Propanone                  | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer            |
| Berkeley | Methyl Ethyl Ketone aka 2-butanone            | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer            |
| Berkeley | Methyl Vinyl Ketone                           | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer            |
| Berkeley | Carbon dioxide (CO <sub>2</sub> )             | Non Dispersive Infrared Photometry                                                  |
| Berkeley | Water (H <sub>2</sub> O Mole Ratio by Volume) | Non Dispersive Infrared Photometry                                                  |
| Berkeley | Ozone (O <sub>3</sub> )                       | UV absorption photometry/UV 2B model 202 and 205                                    |
| Berkeley | Nitrogen dioxide (NO <sub>2</sub> )           | Aerodyne Cavity-Attenuated Phase-Shift (CAPS) spectroscopy NO <sub>2</sub> Analyzer |
| Berkeley | Nitrogen dioxide (NO <sub>2</sub> )           | Ecophysics nCLD 855 Y Nitrogen Oxides Analyzer                                      |
| Berkeley | Nitric Oxide (NO)                             | Ecophysics nCLD 855 Y Nitrogen Oxides Analyzer                                      |
| Berkeley | Oxides of Nitrogen (NO <sub>x</sub> )         | Ecophysics nCLD 855 Y Nitrogen Oxides Analyzer                                      |
| Berkeley | Methane (CH <sub>4</sub> )                    | Aeris MIRA Ultra CH <sub>4</sub>                                                    |
| Berkeley | Ethane                                        | Aeris MIRA Ultra CH <sub>4</sub>                                                    |
| Berkeley | Water (H <sub>2</sub> O Mole Ratio by Volume) | Aeris MIRA Ultra CH <sub>4</sub>                                                    |
| Berkeley | Carbon Monoxide (CO)                          | Aeris MIRA Ultra CO                                                                 |
| Berkeley | Nitrous Oxide (N <sub>2</sub> O)              | Aeris MIRA Ultra CO                                                                 |
| Berkeley | Water (H <sub>2</sub> O Mole Ratio by Volume) | Aeris MIRA Ultra CO                                                                 |
| Berkeley | PM <sub>2.5</sub> - Local Conditions          | Palas Fidas 200                                                                     |
| Berkeley | PM <sub>1</sub> - Local Conditions            | Palas Fidas 200                                                                     |
| Berkeley | PM <sub>10</sub> - Local Conditions           | Palas Fidas 200                                                                     |
| Berkeley | Relative Humidity                             | Airmar WX200                                                                        |
| Berkeley | Average Ambient Pressure                      | Airmar WX200                                                                        |

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|----------|-----------------------------|--------------|
| Berkeley | Average Ambient Temperature | Airmar WX200 |
| Berkeley | Wind Speed - Resultant      | Airmar WX200 |
| Berkeley | Wind Direction - Resultant  | Airmar WX200 |

## UC Riverside/Houston/Baylor Mobile Lab

| Organization | Pollutant/Parameter           | Method                        |
|--------------|-------------------------------|-------------------------------|
| Riverside    | Benzene                       | PTR-MS                        |
| Riverside    | Benzene                       | AROMA cavity ring down        |
| Riverside    | Toluene                       | PTR-MS                        |
| Riverside    | Toluene                       | AROMA cavity ring down        |
| Riverside    | Isoprene                      | PTR-MS                        |
| Riverside    | Isoprene                      | AROMA cavity ring down        |
| Riverside    | Xylene(s)                     | PTR-MS                        |
| Riverside    | Monoterpenes                  | PTR-MS                        |
| Riverside    | Formaldehyde                  | Picarro cavity ring down      |
| Riverside    | Methane                       | Picarro cavity ring down      |
| Riverside    | Aromatics                     | AROMA cavity ring down        |
| Riverside    | Mass-to-charge ratio (m/z) 27 | HR-ToF-AMS                    |
| Riverside    | m/z 28                        | HR-ToF-AMS                    |
| Riverside    | m/z 43                        | HR-ToF-AMS                    |
| Riverside    | m/z 44                        | HR-ToF-AMS                    |
| Riverside    | m/z 57                        | HR-ToF-AMS                    |
| Riverside    | Particle Number, Total Count  | Condensation Particle Counter |

|           |                              |                                                |
|-----------|------------------------------|------------------------------------------------|
| Riverside | Light Absorption Coefficient | Tricolor Absorption Photometer                 |
| Riverside | Particle Light Scatter       | TSI Nephelometer                               |
| Riverside | Particle size distribution   | Portable optical particle spectrometer         |
| Riverside | Ozone                        | chemiluminescence                              |
| Riverside | Ozone                        | UV absorption                                  |
| Riverside | Carbon Monoxide              | Off-Axis Integrated Cavity Output Spectroscopy |
| Riverside | Carbon Dioxide               | IR absorption                                  |
| Riverside | Nitric Oxide                 | Chemiluminescence                              |
| Riverside | Oxides of Nitrogen           | Photolytic-Chemiluminescence                   |
| Riverside | Reactive Oxides of Nitrogen  | Chemiluminescence with heated Mo converter     |
| Riverside | Reactive Alkenes             | Chemiluminescence                              |
| Riverside | Mixing Height                | IR lidar                                       |
| Riverside | PM2.5 (SMPS)                 | Scanning Mobility Particle Sizer (SMPS)        |
| Riverside | PM10 (APS)                   | Aerodynamic Particle Sizer (APS)               |

## Aerodyne Research Mobile Lab

| Organization | Pollutant/Parameter         | Method           |
|--------------|-----------------------------|------------------|
| Aerodyne     | Relative Humidity           | Sonic Anemometer |
| Aerodyne     | Average Ambient Pressure    | Sonic Anemometer |
| Aerodyne     | Average Ambient Temperature | Sonic Anemometer |
| Aerodyne     | Wind Speed - Resultant      | Sonic Anemometer |
| Aerodyne     | Wind Direction - Resultant  | Sonic Anemometer |
| Aerodyne     | wind vector - resultant     | Sonic Anemometer |

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|----------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Aerodyne | wind vector - resultant | Sonic Anemometer                                                                                                                     |
| Aerodyne | Benzene                 | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Toluene                 | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Ethylbenzene            | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | o-Xylene                | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | m/p Xylene              | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Bromomethane            | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |

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| Aerodyne | 1,3-Butadiene                      | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Parachlorobenzotrifluoride (PCBTF) | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | 1,3-dichloropropene                | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | n-Propane                          | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Propene                            | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | n-Butane                           | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |

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| Aerodyne | Isobutane              | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | n-Pentane              | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Isopentane             | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | n-Octane               | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | 2,2,4-Trimethylpentane | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | 1,2,4-Trimethylbenzene | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |

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| Aerodyne | 1,3,5-Trimethylbenzene  | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | 1,2,3-Trimethyl benzene | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Methyl Ethyl Ketone     | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Isoprene                | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Alpha-Pinene            | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Acetone                 | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |

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| Aerodyne | Chloroform        | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Benzyl chloride   | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Ethyl acetate     | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | 1,4-dioxane       | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Vinyl chloride    | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Trichloroethylene | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |

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| Aerodyne | Tetrachloroethylene   | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | 1,1-dichloroethane    | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | 1,1,2-trichloroethane | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | 1,1-dichloro ethene   | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | 2-hexanone            | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Acrylonitrile         | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |

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| Aerodyne | 1,2-dichlorobenzene | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | 1,3-dichlorobenzene | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | 1,4-dichlorobenzene | Aerodyne GC-EI-ToF-MS: Collection: Preconcentration adsorbent trap, Analysis: thermal desorption gas chromatograph mass spectrometer |
| Aerodyne | Benzene             | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer                                                             |
| Aerodyne | Toluene             | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer                                                             |
| Aerodyne | Xylene(s)           | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer                                                             |
| Aerodyne | Acrolein            | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer                                                             |
| Aerodyne | Methanethiol        | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer                                                             |

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|----------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Aerodyne | Dimethyl sulfide                                                   | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer                 |
| Aerodyne | Naphthalene                                                        | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer                 |
| Aerodyne | Acetone                                                            | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer                 |
| Aerodyne | Butyryl-aldehyde & Methyl Ethyl Ketone                             | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer                 |
| Aerodyne | Methyl Vinyl Ketone                                                | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer                 |
| Aerodyne | c5carbonyls                                                        | Aerodyne Vocus Proton Transfer Reaction Time-of-Flight Mass Spectrometer                 |
| Aerodyne | Sulfate PM <sub>2.5</sub> STP (standard temperature and pressure)  | Aerodyne Soot-Particle Aerosol Mass Spectrometer: Vaporization followed by EI ionization |
| Aerodyne | Nitrate PM <sub>2.5</sub> STP (standard temperature and pressure)  | Aerodyne Soot-Particle Aerosol Mass Spectrometer: Vaporization followed by EI ionization |
| Aerodyne | Chloride PM <sub>2.5</sub> STP (standard temperature and pressure) | Aerodyne Soot-Particle Aerosol Mass Spectrometer: Vaporization followed by EI ionization |

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|----------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Aerodyne | Organic Carbon Mass PM <sub>2.5</sub> Local Conditions                 | Aerodyne Soot-Particle Aerosol Mass Spectrometer: Vaporization followed by EI ionization |
| Aerodyne | Ammonium Ion PM <sub>2.5</sub> STP                                     | Aerodyne Soot-Particle Aerosol Mass Spectrometer: Vaporization followed by EI ionization |
| Aerodyne | Black carbon PM <sub>2.5</sub> STP (standard temperature and pressure) | Aerodyne Soot-Particle Aerosol Mass Spectrometer: Vaporization followed by EI ionization |
| Aerodyne | Lead PM <sub>2.5</sub> STP (standard temperature and pressure)         | Aerodyne Soot-Particle Aerosol Mass Spectrometer: Vaporization followed by EI ionization |
| Aerodyne | Arsenic PM <sub>2.5</sub> STP (standard temperature and pressure)      | Aerodyne Soot-Particle Aerosol Mass Spectrometer: Vaporization followed by EI ionization |
| Aerodyne | Aluminum PM <sub>2.5</sub> STP (standard temperature and pressure)     | Aerodyne Soot-Particle Aerosol Mass Spectrometer: Vaporization followed by EI ionization |
| Aerodyne | Chromium PM <sub>2.5</sub> STP (standard temperature and pressure)     | Aerodyne Soot-Particle Aerosol Mass Spectrometer: Vaporization followed by EI ionization |
| Aerodyne | Cadmium PM <sub>2.5</sub> STP (standard temperature and pressure)      | Aerodyne Soot-Particle Aerosol Mass Spectrometer: Vaporization followed by EI ionization |
| Aerodyne | Particle Number, Total Count                                           | Butanol-based condensation particle counter, TSI 3775                                    |

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|----------|-----------------------------------------------------------|------------------------------------------------------------------------------------------|
| Aerodyne | Select PM <sub>2.5</sub> Polycyclic Aromatic Hydrocarbons | Aerodyne Soot-Particle Aerosol Mass Spectrometer: Vaporization followed by EI ionization |
| Aerodyne | Potassium PM <sub>2.5</sub> Local Conditions              | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                                   |
| Aerodyne | Titanium PM <sub>10</sub> Local Conditions                | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                                   |
| Aerodyne | Antimony PM <sub>10</sub> Local Conditions                | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                                   |
| Aerodyne | Arsenic PM <sub>10</sub> Local Conditions                 | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                                   |
| Aerodyne | Barium PM <sub>10</sub> Local Conditions                  | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                                   |
| Aerodyne | Bromine PM <sub>10</sub> Local Conditions                 | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                                   |
| Aerodyne | Cadmium PM <sub>10</sub> Local Conditions                 | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                                   |
| Aerodyne | CaLocal Conditions<br>PM <sub>10</sub> Local Conditions   | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                                   |
| Aerodyne | Chromium PM <sub>10</sub> Local Conditions                | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                                   |

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| Aerodyne | Cobalt PM <sub>10</sub> Local Conditions    | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Copper PM <sub>10</sub> Local Conditions    | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Iron PM <sub>10</sub> Local Conditions      | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Lead PM <sub>10</sub> Local Conditions      | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Manganese PM <sub>10</sub> Local Conditions | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Mercury PM <sub>10</sub> Local Conditions   | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Nickel PM <sub>10</sub> Local Conditions    | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Selenium PM <sub>10</sub> Local Conditions  | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Silver PM <sub>10</sub> Local Conditions    | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Thallium PM <sub>10</sub> Local Conditions  | X-RAY FLUORESCENCE XRF INSTRUMENTATION |

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|----------|-----------------------------------------------|----------------------------------------|
| Aerodyne | Tin PM <sub>10</sub> Local Conditions         | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Vanadium PM <sub>10</sub> Local Conditions    | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Zinc PM <sub>10</sub> Local Conditions        | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Aluminum PM <sub>10</sub> Local Conditions    | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Silicon PM <sub>10</sub> Local Conditions     | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Phosphorous PM <sub>10</sub> Local Conditions | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Sulfur PM <sub>10</sub> Local Conditions      | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Chlorine PM <sub>10</sub> Local Conditions    | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Gallium PM <sub>10</sub> Local Conditions     | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Germanium PM <sub>10</sub> Local Conditions   | X-RAY FLUORESCENCE XRF INSTRUMENTATION |

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|----------|----------------------------------------------|----------------------------------------|
| Aerodyne | Rubidium PM <sub>10</sub> Local Conditions   | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Strontium PM <sub>10</sub> Local Conditions  | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Yttrium PM <sub>10</sub> Local Conditions    | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Zirconium PM <sub>10</sub> Local Conditions  | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Niobium PM <sub>10</sub> Local Conditions    | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Molybdenum PM <sub>10</sub> Local Conditions | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Palladium PM <sub>10</sub> Local Conditions  | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Indium PM <sub>10</sub> Local Conditions     | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Tellurium PM <sub>10</sub> Local Conditions  | X-RAY FLUORESCENCE XRF INSTRUMENTATION |
| Aerodyne | Iodine PM <sub>10</sub> Local Conditions     | X-RAY FLUORESCENCE XRF INSTRUMENTATION |

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|----------|---------------------------------------------|-------------------------------------------------------------------------------------|
| Aerodyne | Caesium PM <sub>10</sub> Local Conditions   | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                              |
| Aerodyne | Lanthanum PM <sub>10</sub> Local Conditions | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                              |
| Aerodyne | Cerium PM <sub>10</sub> Local Conditions    | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                              |
| Aerodyne | Platinum PM <sub>10</sub> Local Conditions  | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                              |
| Aerodyne | Gold PM <sub>10</sub> Local Conditions      | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                              |
| Aerodyne | Bismuth PM <sub>10</sub> Local Conditions   | X-RAY FLUORESCENCE XRF INSTRUMENTATION                                              |
| Aerodyne | Carbon dioxide                              | Non Dispersive Infrared Photometry                                                  |
| Aerodyne | Ozone                                       | UV absorption photometry/UV 2B model 202 and 205                                    |
| Aerodyne | Nitrogen dioxide (NO <sub>2</sub> )         | Aerodyne Cavity-Attenuated Phase-Shift (CAPS) spectroscopy Nitrogen Oxides Analyzer |
| Aerodyne | Oxides of nitrogen (NO <sub>x</sub> )       | Aerodyne Cavity-Attenuated Phase-Shift (CAPS) spectroscopy Nitrogen Oxides Analyzer |
| Aerodyne | Formaldehyde                                | Aerodyne Tunable Infrared Direct Absorption Spectroscopy (TILDAS)                   |

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|----------|--------------------------------------|-------------------------------------------------------------------|
| Aerodyne | Ethylene oxide                       | Aerodyne Tunable Infrared Direct Absorption Spectroscopy (TILDAS) |
| Aerodyne | Methane                              | Aerodyne Tunable Infrared Direct Absorption Spectroscopy (TILDAS) |
| Aerodyne | Carbon monoxide                      | Aerodyne Tunable Infrared Direct Absorption Spectroscopy (TILDAS) |
| Aerodyne | Water                                | Aerodyne Tunable Infrared Direct Absorption Spectroscopy (TILDAS) |
| Aerodyne | Ethane                               | Aerodyne Tunable Infrared Direct Absorption Spectroscopy (TILDAS) |
| Aerodyne | Nitrous Oxide                        | Aerodyne Tunable Infrared Direct Absorption Spectroscopy (TILDAS) |
| Aerodyne | PM <sub>2.5</sub> - Local Conditions | Alphasense OPC-N3                                                 |
| Aerodyne | PM <sub>1</sub> - Local Conditions   | Alphasense OPC-N3                                                 |
| Aerodyne | PM <sub>10</sub> - Local Conditions  | Alphasense OPC-N3                                                 |