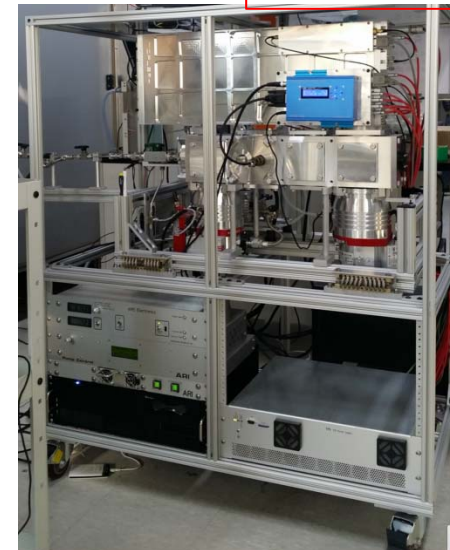


KIST HR-ToF-AMS : Real time measurement of Non-Refractory PM₁ composition and Chemistry

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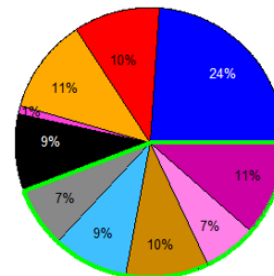
| Instrumentation | Measured Species |
|---|--|
| HR-ToF-AMS | <ul style="list-style-type: none"> Quantitative composition of PM1 (organic, nitrate, sulfate, ammonium and chloride) Size resolved Chemical composition of PM1 Elemental composition (O/C, H/C, OM/OC) OA Source apportionment by PMF, later. |
| SMPS | Particle size dist. and conc. (19-948 nm) |
| MAAP(670nm) | Concentration of BC |
| Integrating Nephelometer (450, 550, 700nm) & PAX (532nm)* | Scattering, absorption and extinction coefficient |

KIST site AMS



- Operated by Dr. Jongbae Heo and Dr. Seung-Muk Yi at Seoul national University during KORUS AQ.
- Filter sampling of PM2.5, 10 and TSP using high- and low volume sampler will be performed

HOA COA BBOA SVOOA LVOOA
BC NH₄⁺ Cl⁻ NO₃⁻ SO₄²⁻



PM₁ compositions (up) and diurnal pattern of main species (right) measured by KIST-HRAMS during winter at Seoul

