

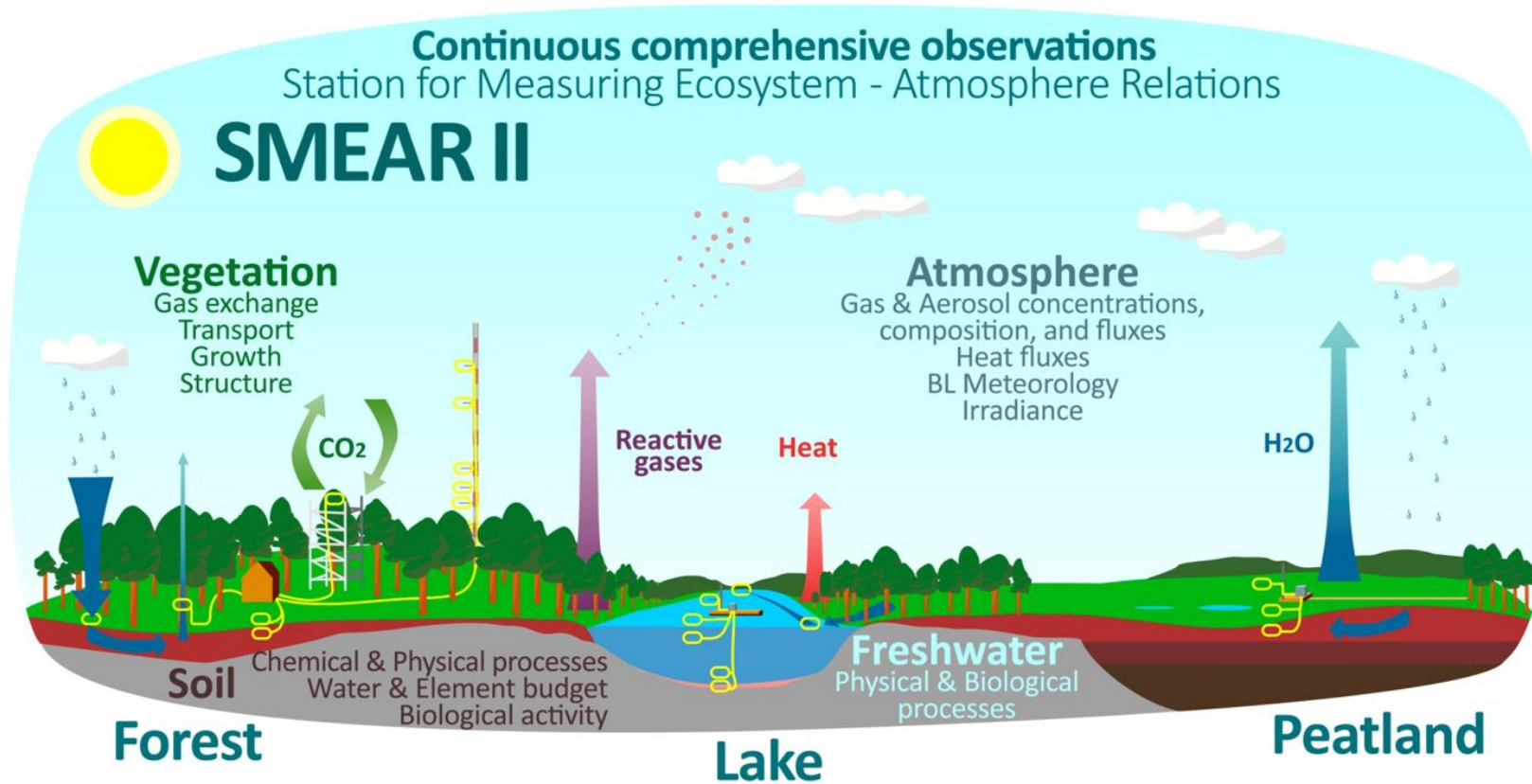
CiGas VOC submission: Hyytiälä

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7.4.2025

SMEAR II



Over **1200** different variables

Flagship site for integration: combines all IPCC components. **Contributes to :**



ICOS

INTEGRATED
CARBON
OBSERVATION
SYSTEM

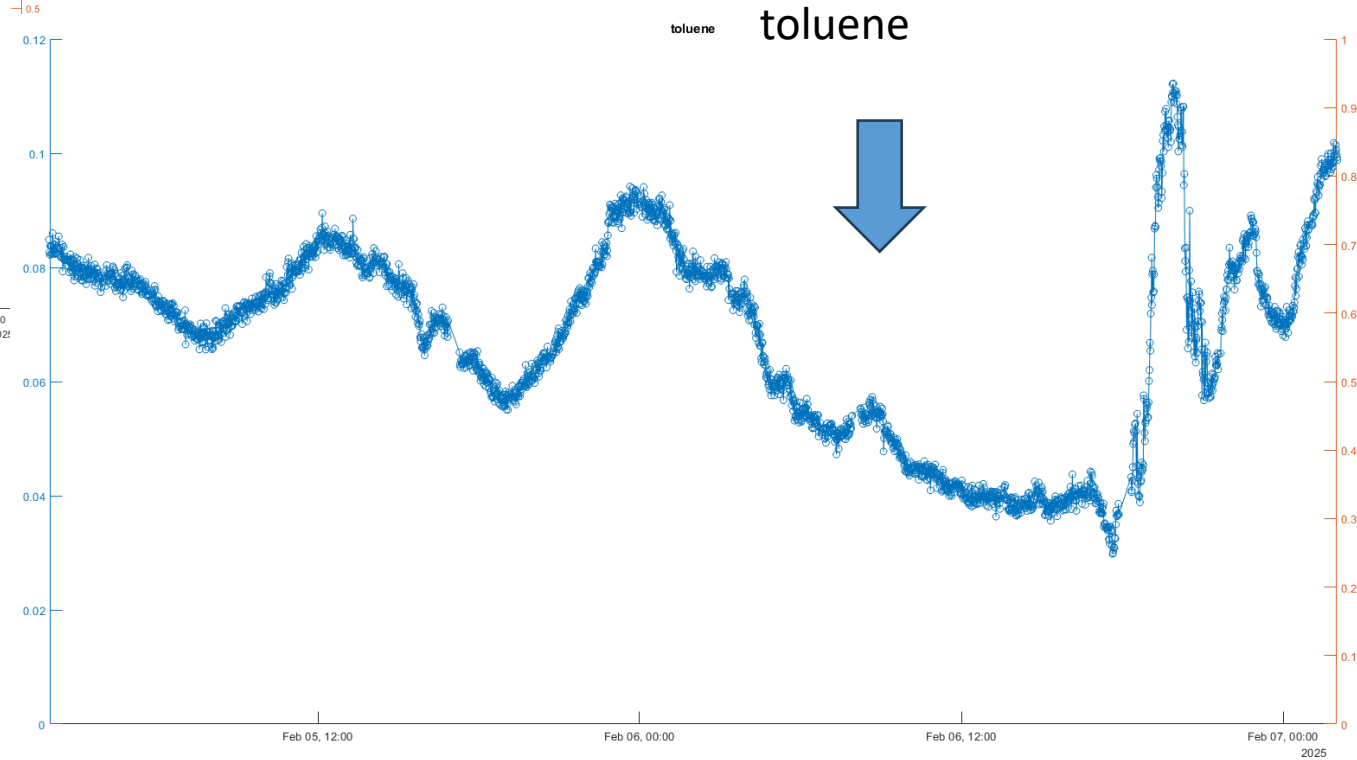
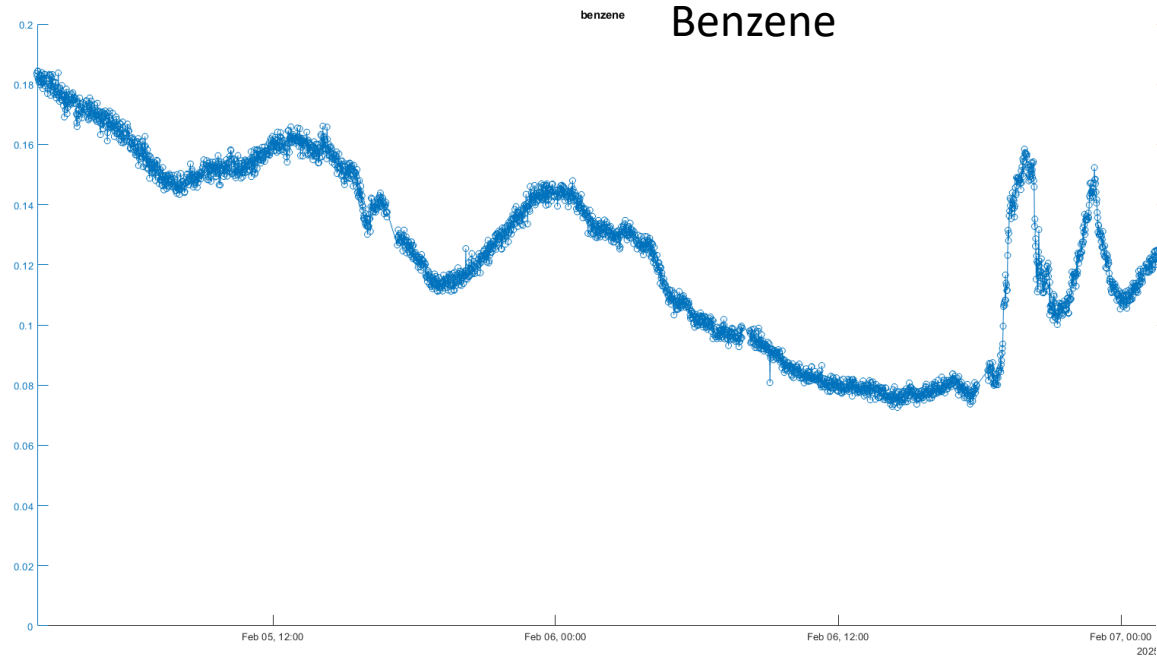
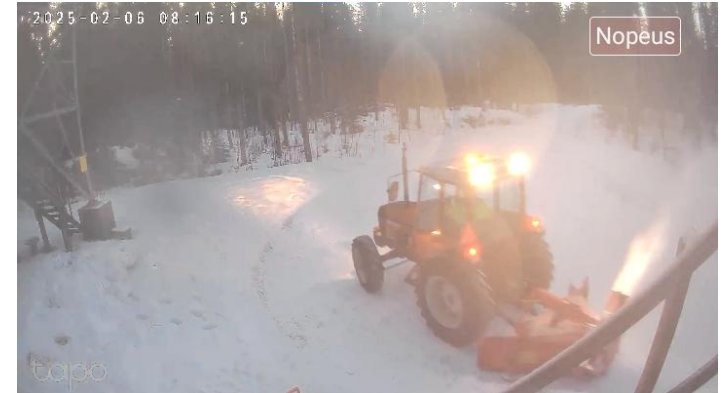


New instrument: Vocus PTR-TOF

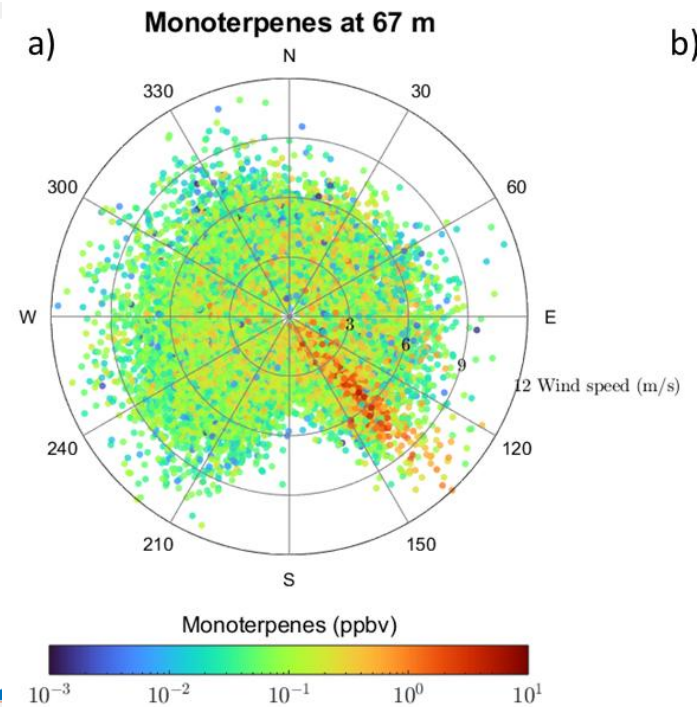
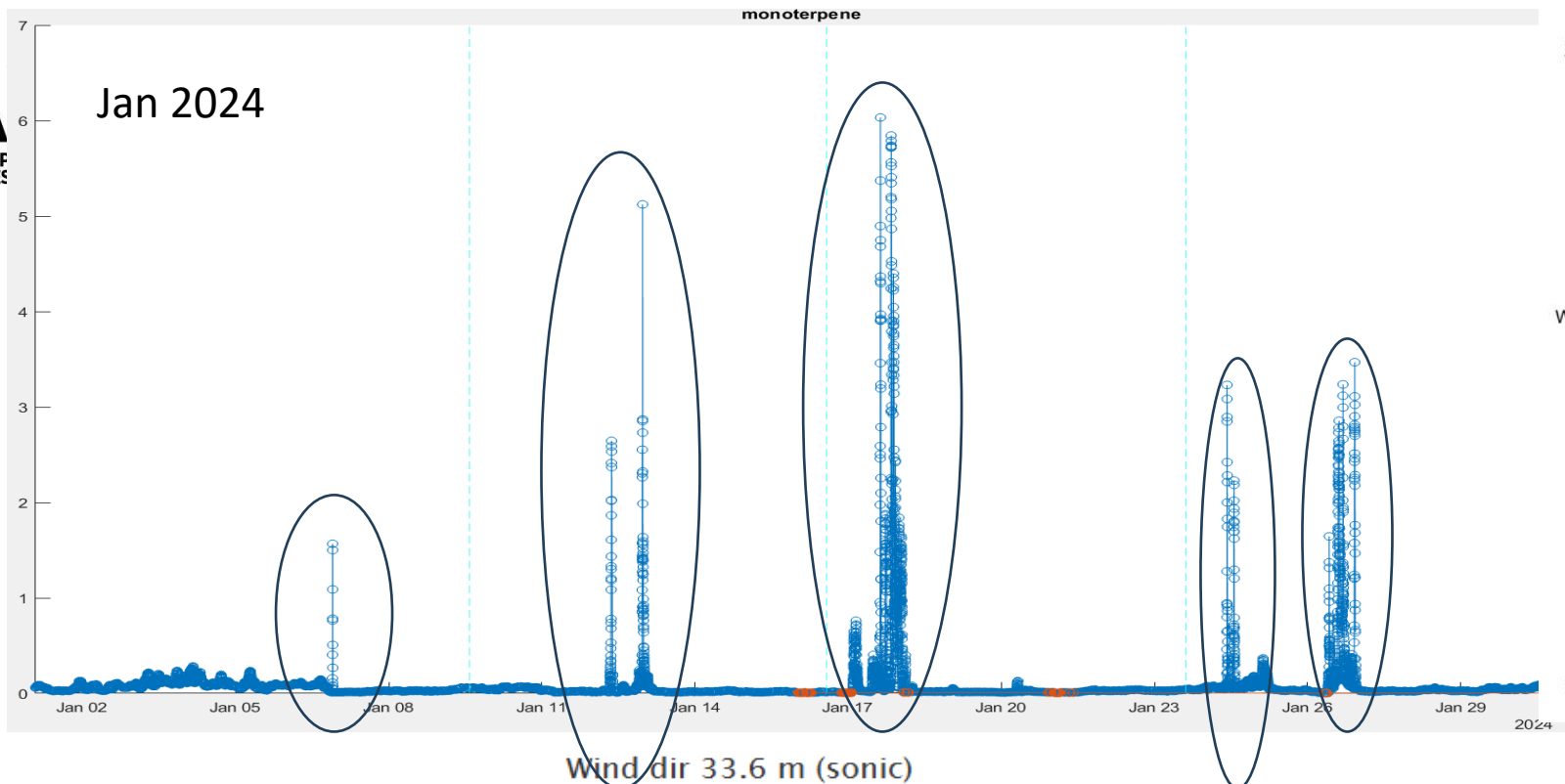
- Previously submitted data from PTR-QMS
- Vocus in container at 35 m height
 - Measurements at 10 Hz (EC flux)
 - Daily calibrations (NPL)
 - Blanks about every 3 h
 - 13 masses (acetonitrile, ethanal, ethanol, acetone, DMS, isoprene, MVK, MEK, benzene, toluene, xylene, trimethylbenzene, monoterpenes)
- Local contamination sources
 - Cars, tractors (not clearly visible in data)
 - Sawmill (6 km southeast)



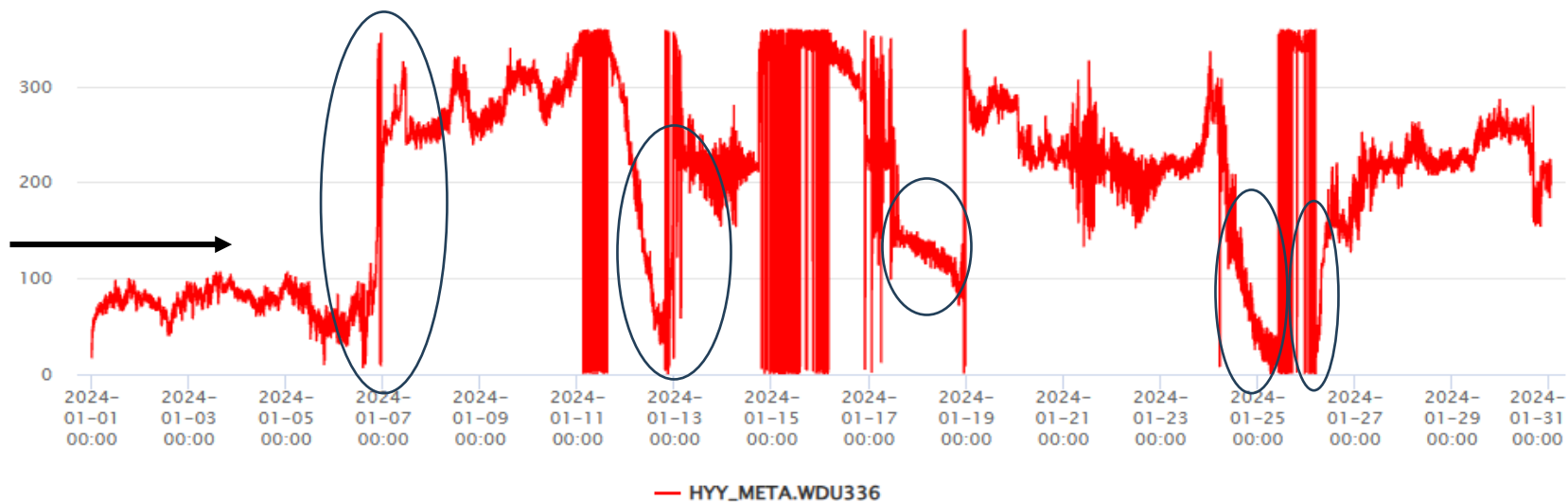
Tractor event



Jan 2024

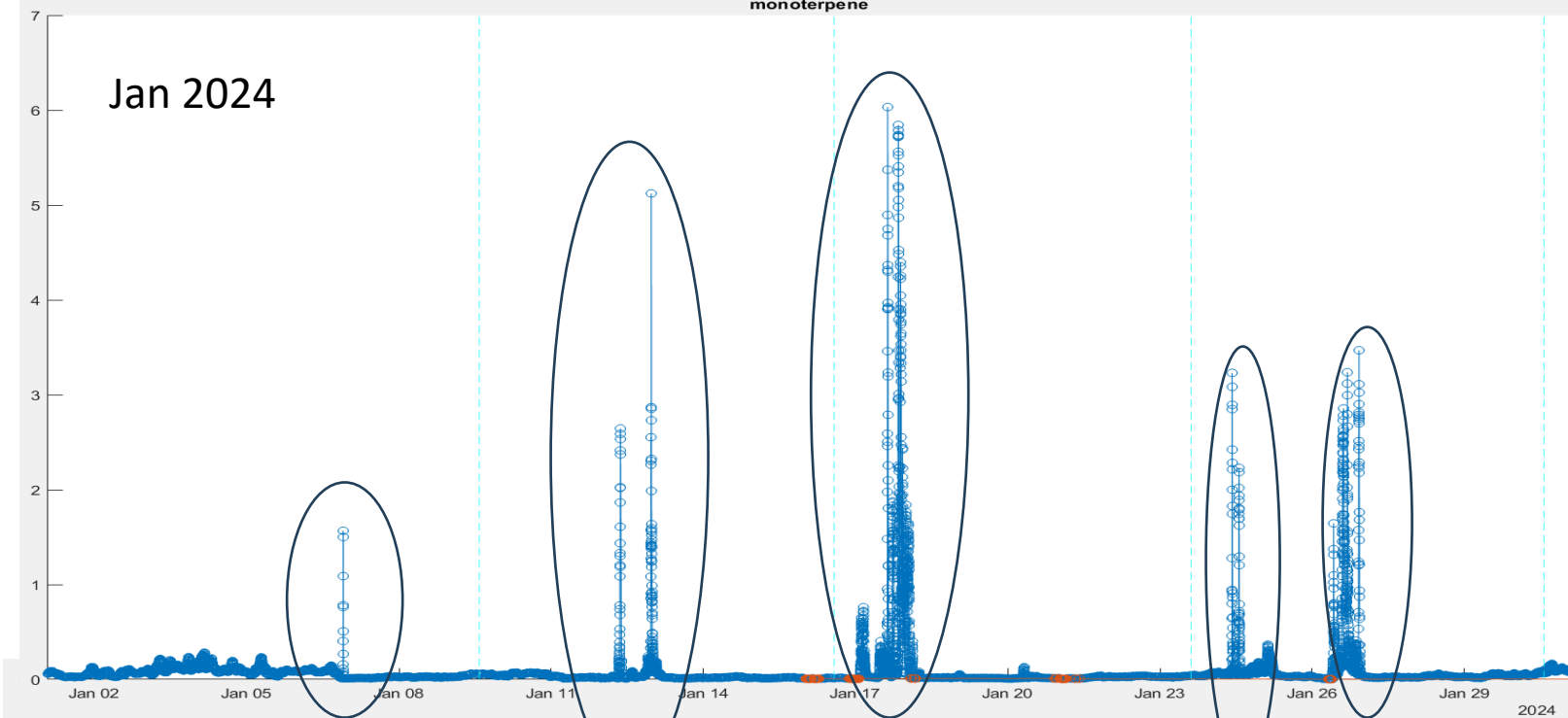


Sawmill

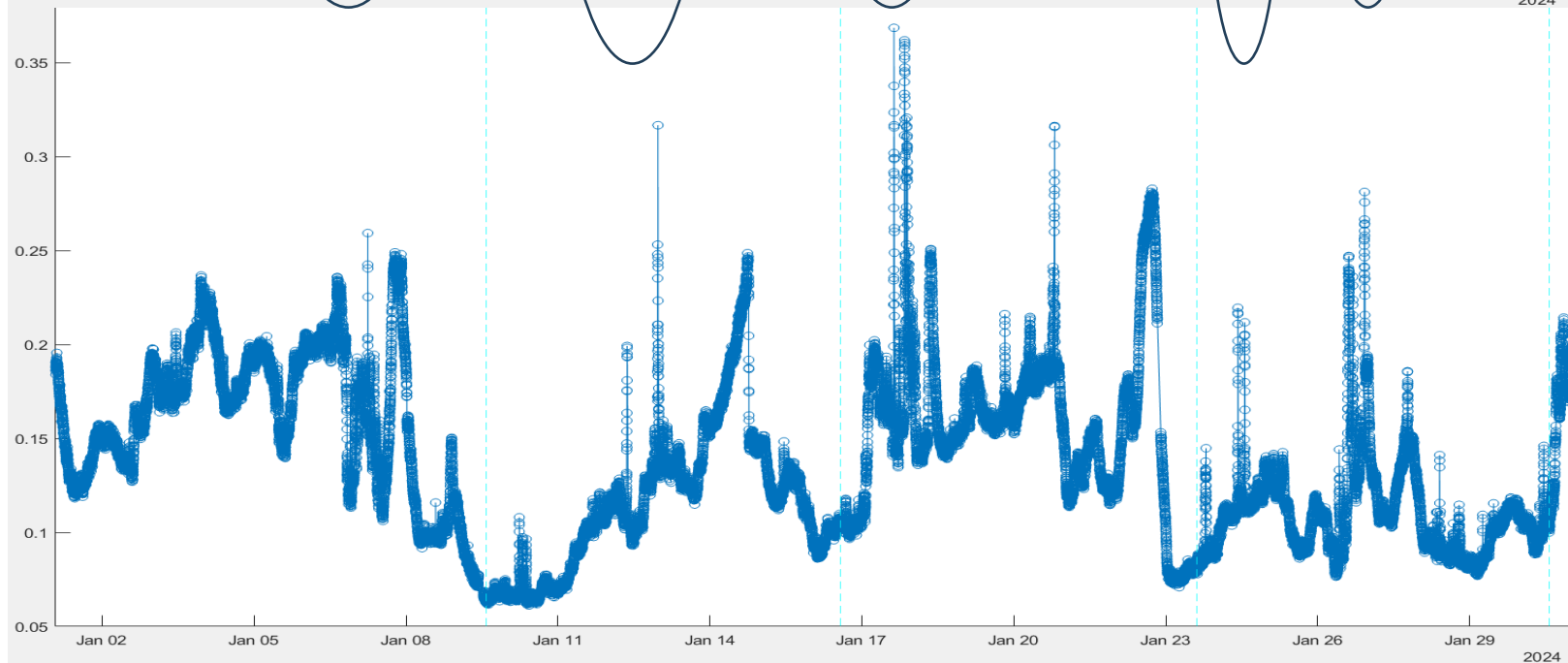


Jan 2024

monoterpene

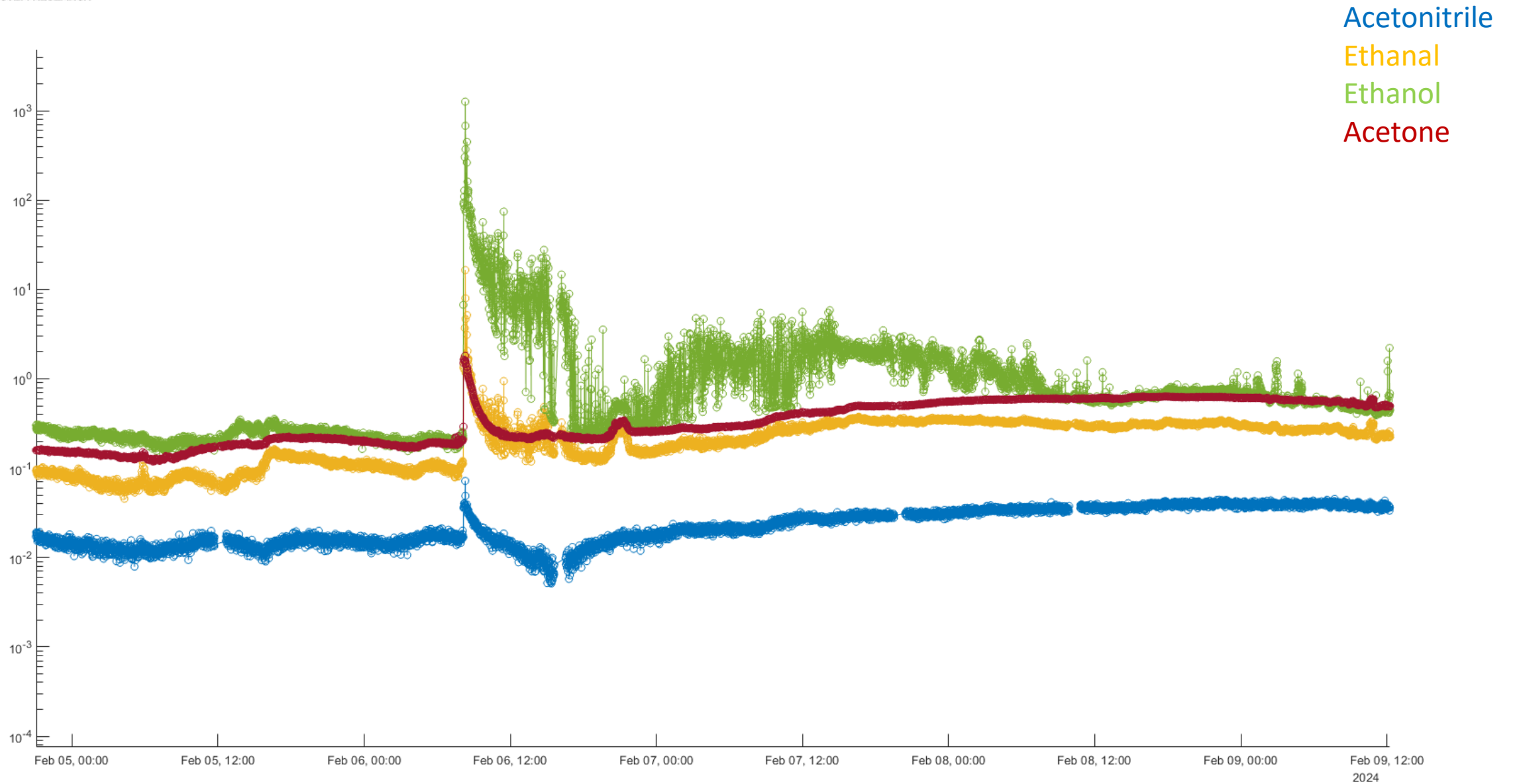


benzene



Trimethylbenzene
Toluene
Benzene
(MVK)
Isoprene
Acetone

Peak in Feb



Peak in May

