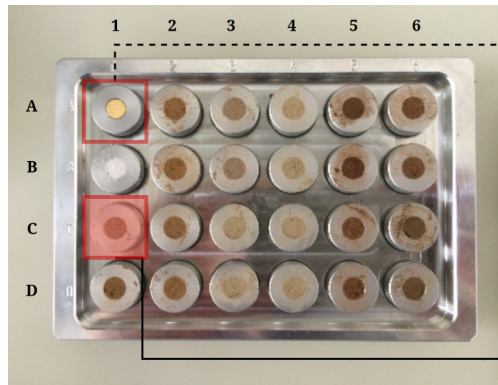
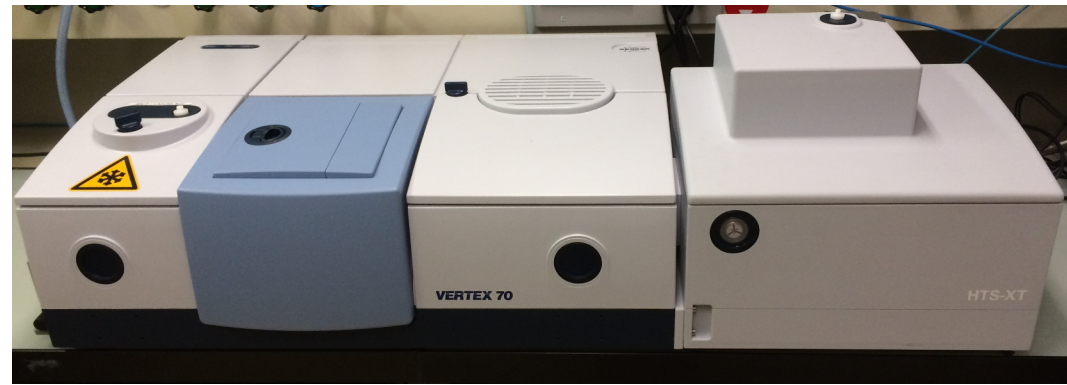


24-well plates: gold standard + milled soils



mid-infrared spectrometer with high-throughput module (≈ 200 soils per day)



each spectrum (line): snapshot of molecular soil composition (vibrations of functional groups)

Soil organic matter (carbohydrates, lignin, cellulose, proteins, chars, phenolic compounds, organic acids, etc.)

Minerals: e.g., Kaolinite (K), Halloysite (H); Quartz (Q)

