

Spectral features

Physical/molecular properties

Signal intensity/absorbance

Absorptivity

FGs molar abundance

Organic matter

OC and EC

Previous approaches (Beer-Lambert law)

Peak width

Phase state

Hydrogen bonding

Indicator of acid, alcohol etc.

Molecular weight

Peak frequency

Electron withdrawing atoms

Indicator of oxygen, etc.

Ring strain

Peak height ratios

Chain length

Degree of branching

Number of carbon atoms

OM/OC ratio

O/C ratio

Current approach

Causality

Predictions