

CHEMLYS Application note

Gas analysis

Pyrolysis of Biomass



Context :

The pyrolysis of Biomass is a subject in full development.

It allows to produce oil and gas which are valuable elements in many sectors.

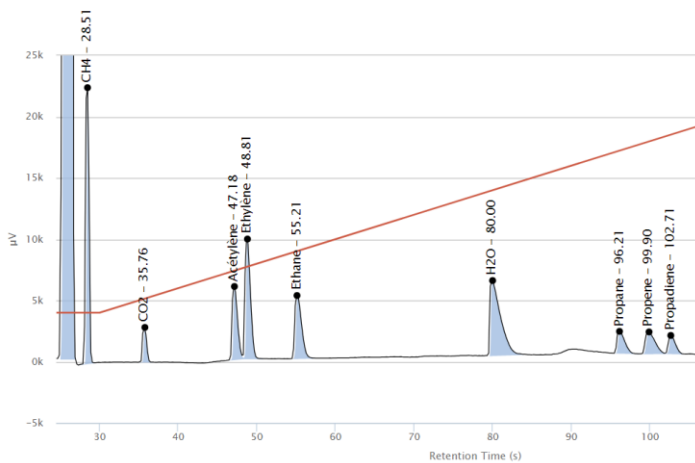
The temperature programming of the MicroGC Fusion columns allows to make complex analysis in one time. It solve easily the problem of pyrolysis gas analysis with a unique method.

In the application below, the sample may contain light gases and hydrocarbons.

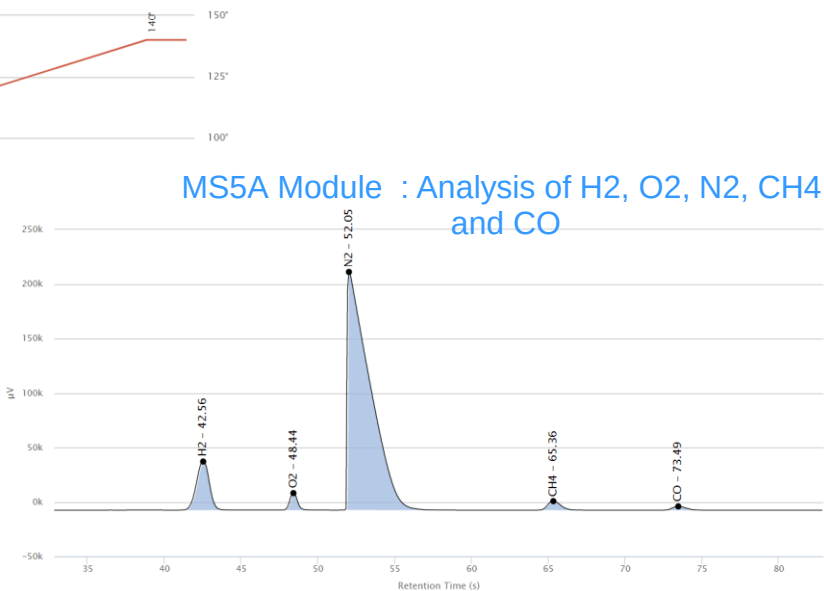
The same method can measure hydrogen, nitrogen, oxygen, methane, carbon monoxide, carbon dioxide and the isomers of C1-C3 hydrocarbons.

This same configuration can perform the single C1-C6 analysis if these compounds are present.

In this note Fusion is used with argon as carrier gas, more economical than helium.



RT-Q Module : Analysis of CO₂, H₂O, C1-C3 and theirs isomers



MS5A Module : Analysis of H₂, O₂, N₂, CH₄ and CO

Sample Info :

Gases from biomass pyrolysis.

Column : RT-Q 12m and MS5A 10m, argon carrier gas.

Easy data acquisition and processing with a fast and unique method.

