

## Automated Determination of Fatty Acid Methyl Ester and Cis/Trans-Methyl Ester Composition of Fats and Oils

Sjaak de Koning.

- *Fully automated sample preparation and injection*
- *24 hour, unattended operation*

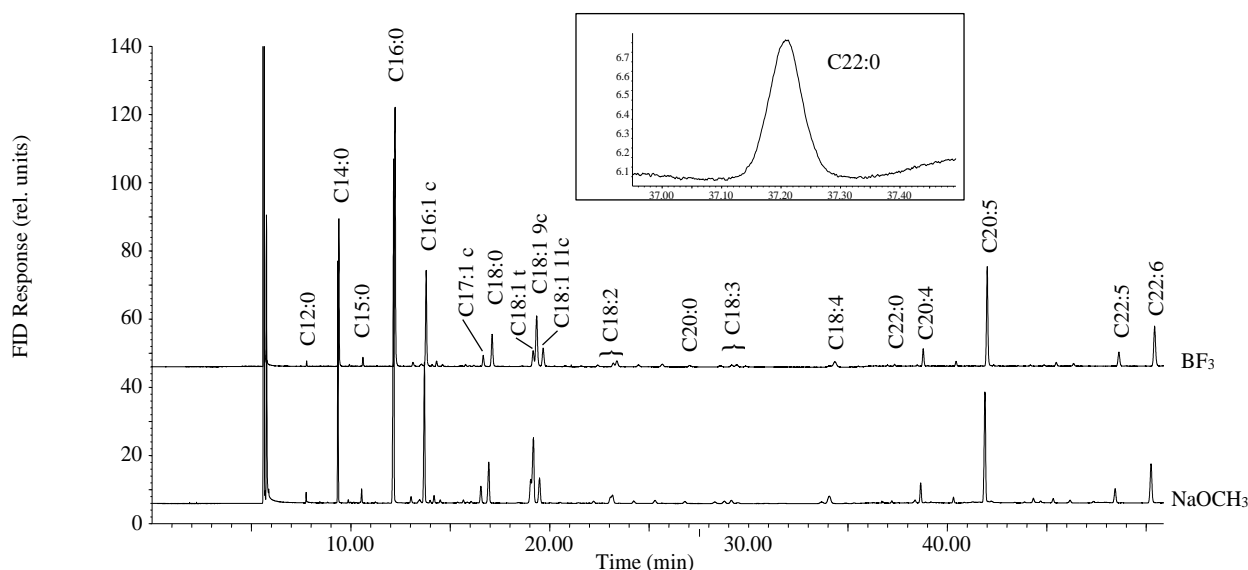
### Instrumentation

- Optic 2-200 programmable injector
- Focus sample preparation robot
- Agilent 6890 GC-FID
- CP-Sil 88 capillary column; 100 m x 0.25 mm i.d. x 0.4  $\mu$ m film thickness

### Procedure

- Lipid samples are weighed into autosampler vials and loaded into the Focus sample tray
- Focus adds n-heptane to each vial and shakes the vial to dissolve the lipid in the solvent
- Focus adds sodium methanolate to the vial and shakes the vial
- The sample is allowed to settle
- Focus injects a portion of the clear layer into the GC

### Chromatograms



**Figure:** GC/FID chromatograms of fat CTME analysis. Upper trace: FAMEs prepared by the manual  $\text{BF}_3$  method. Lower trace: FAMEs prepared by the automated  $\text{NaOCH}_3$  method. The insert is of the  $\text{C}_{22:0}$  peak of the  $\text{NaOCH}_3$  prepared sample

For more information please contact us at one of the addresses below.

GL Sciences B.V.

De Sleutel 9, 5652 AS, Eindhoven, The Netherlands  
 Tel. +31 (0)40 254 95 31 E-mail: info@glsciences.eu  
 Internet: www.glsciences.eu