

Application Note No. 062

## Automated Analysis of the Preservative Compound HDO in Impregnated Wood by Direct Thermal Desorption-GC-MS Using the Focus-DTD Robotic Sampler

*Sjaak de Koning, ATAS, Veldhoven, The Netherlands*

*Peter Jüngel, Federal Research Centre for Forestry and Forest Products, Hamburg, Germany*

- **No Sample Preparation Required**
- **Automated Sampling of Solid Samples**

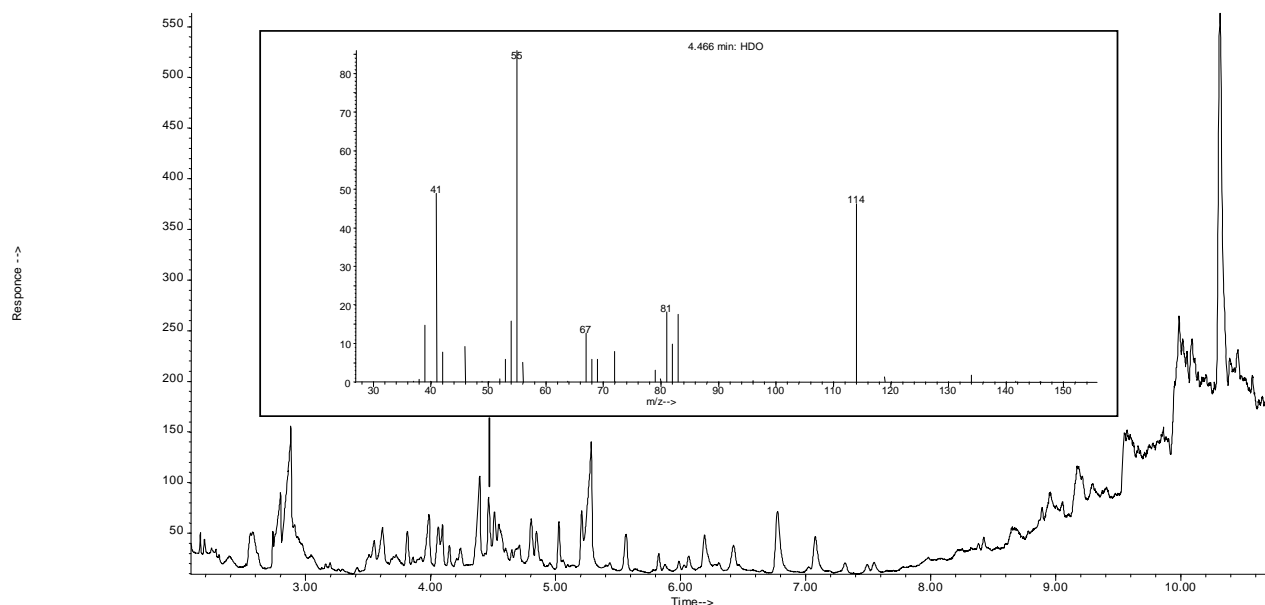
### Instrumentation

- Optic 2-200 programmable injector
- Focus Direct-TD automated thermal desorber
- Agilent 6890 GC and 5973N MSD
- HP5-MS capillary column; 25 m x 0.25 mm x 0.25  $\mu\text{m}$

### Procedure

- A series of wood splinters are loaded into Sepliners and the Sepliners placed into the auto sampler tray
- Each Sepliner is automatically picked from the tray and placed into the injector
- HDO preservative is desorbed thermally from the wood samples and analysed by GC-MS

### Chromatograms



**Figure:** Full scan DTD-GC-MS chromatogram of 10 mg pine impregnated with 56 ppm HDO. Insert: mass spectrum of HDO peak

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