

Dear customer, please enjoy reading our actual newsletter !

Frontier Laboratories' Europe Newsletter 03/2017



TOP NEWS

Thermal Desorption GC/MS has become an official method approved by IEC for the analysis of restricted phthalates in electrotechnical products.

[click here and learn how to run this application on your Py-GC/MS system what is compliant to RoHS directive IEC 62321-8:2017](#)



New Technical Notes Available !

The applicability of your GC/MS system greatly expands using Frontier Lab's pyrolyzer and μ -Reactors. We always look for new applications and transfer these into easy-to-read technical notes. Currently, we have more than 100 technical notes downloadable for you in our searchable database - and it is growing continuously. Recently, some new technical notes have been added:

1. *Determination of antioxidant Irganox 1098 in ethylene-vinyl alcohol copolymer using PY-GC/MS (PYA1-086E)*
2. [Analysis of yellowing of a polyvinyl chloride sheet Part 1: Evolved gas analysis-MS \(PYA3-021E\)](#)
3. *Analysis of yellowing of a polyvinyl chloride sheet Part 2: Heart-cut EGA-GC/MS (PYA3-022E)*
4. [Fischer-Tropsch reaction using Rapid catalyst screening reactor \(RXA-004E\)](#)
5. *Effect of hydrogen carrier gas on Py-GC/MS analysis of polymers: Part 2: Hydrogenation of HDPE pyrolyzates in EI source of MS (PYA4-008E)*

[click here to download technical notes](#)



New Literature Available !

Our customers and collaboration partners are successfully working with Frontier Lab Pyrolyzer and μ -Reactors in Research and Development. Please check out some new publications listed below:

Catalytic co-pyrolysis of torrefied yellow polar and high-density polyethylen using microporous HZSM-5 and mesoporous AL-MCM-41 catalysts
Y.-M. Kim et al, *Energ. Convers. Manage.* 149 (2017) 966-973

Rapid Quantification of N-Methyl-2-pyrrolidone in Polymer Matrices by

Thermal Desorption GC/MS

Y.-M. Kim et al., *Anal Sci.* 33 (2017) 821-824

Pyrolysis kinetic analysis of poly(methyl methacrylate) using evolved gas analysis-mass spectrometry

Y.-M. Kim et al., *Korean J. Chem. Eng.* 34 (2017) 1214-1221

New approach for the kinetic analysis of cellulose using EGA-MS

Y.-M. Kim et al., *Polym Test.* 60 (2017) 12-17

- many more publications are available !

[click here to download publications](#)



New Video Tutorials !

Please visit our website and watch our newest video tutorials what explain in detail installation, operation and maintenance of Frontier Lab products. You may be also interested to learn more about our unique Polymer and Additive library [F-Search](#).

[Please follow this link to see all available video tutorials !](#)

Recently added:

Installation of EGA/PY 3030D Pyrolyzer on Thermo Fisher 1300/1310:

[Part 1](#)

[Part 2](#)

[Part 3](#)

IMPRESSUM

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