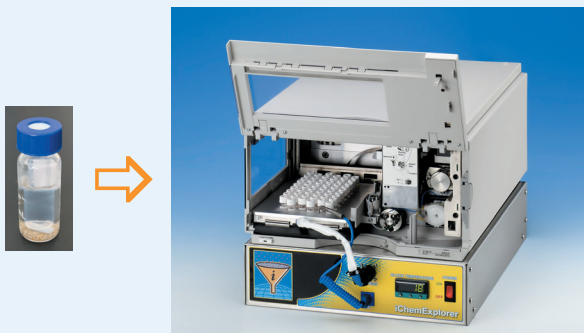
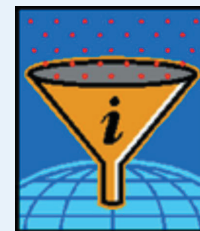


iChemExplorer Application Reaction Screening and Kinetic Study

Turn your LC and LC/MS into an Automated Screening System
Chemistry to Results in a LC Sample Vial

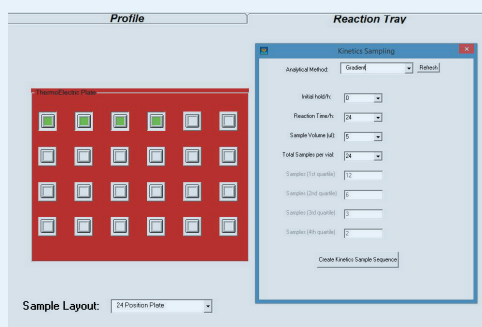
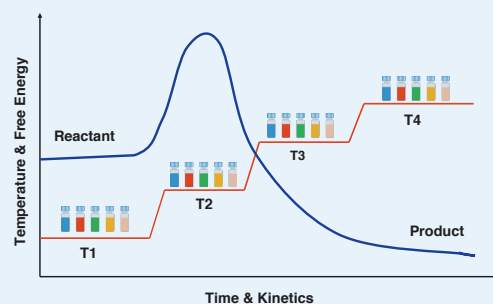


iChemExplorer is an innovative hardware/software module integrated into your HPLC autosampler:

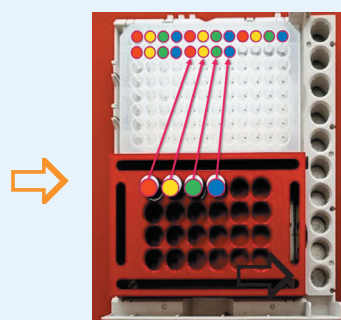
- Heating and cooling (5 to 150 °C)
- Stirring up to 1200 rpm
- Proprietary in-vial filter insert technology
- Intuitive software interface for experiment design and execution
- Application specific data analysis and reporting

iChemExplorer enables reaction screening and kinetic study in LC sample vials:

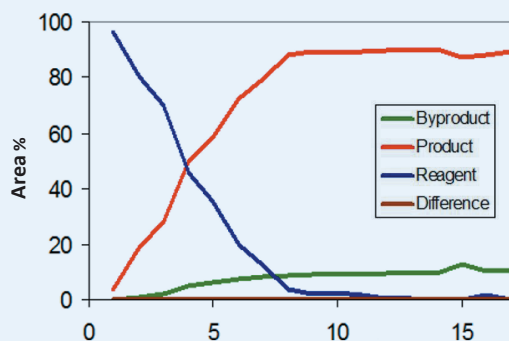
- Automated LC sequence for reaction time point and sample injection, coupled with temperature program
- Direct injection or quench/dilution of in-vial filtered reaction samples
- Real time LC peak profiling for reaction kinetics



Design and Control of
Temperature and Sample Profiles

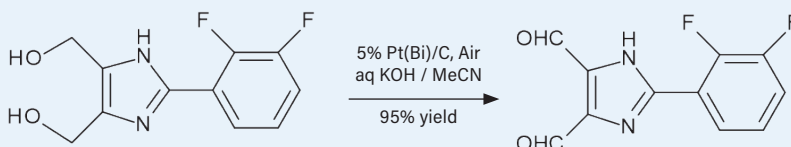


On-Plate Sampling
Quench/Dilution and Analysis



Real Time Peak Profiling
for Reaction Kinetics

Customer example of reaction screening utilized *iChemExplorer*



Green Oxidation: Air as Terminal Oxidant (over 106 catalysts and conditions were evaluated)
R.K. Bowman *et al.*, *J. Org. Chem.*, 2013, 78, 11680