

## High resolution benchtop NMR for every chemistry laboratory

### High performance benchtop NMR

- 60 MHz rare-earth permanent magnet with high resolution ( $< 0.7\text{ Hz}$ )
- Experiments available:
  - 1D  $^1\text{H}$  and  $^{19}\text{F}$
  - Inversion recovery for  $T_1$  measurements
  - CPMG for  $T_2$  measurements
  - 2D NMR:
    - COSY
    - J-Resolved
    - TOCSY

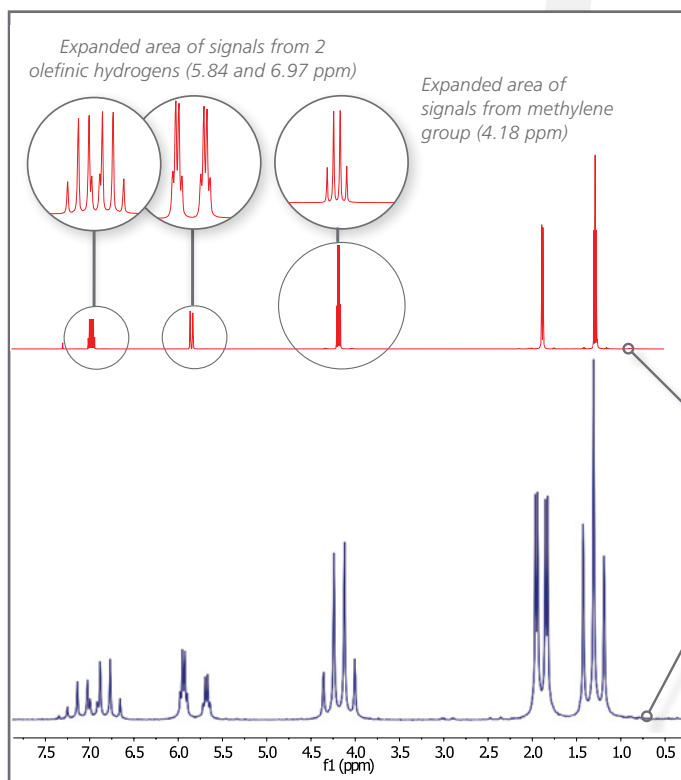
### Ease of Use

- Completes your lab's suite of analytical techniques
- Perfect for teaching departments
- Easily operated by undergraduate students
- Simple analysis of spectra

### Low maintenance and cost of ownership

- Cryogen-free system
- $^{19}\text{F}$  or  $^1\text{H}$  measurements on single probe
- No specialist operator required
- Fast operation – high throughput of samples
- At-line reaction monitoring
- Suitable for screening samples before running on a high field system (eliminate unsuitable samples – save time and cost)

No liquid helium or nitrogen required



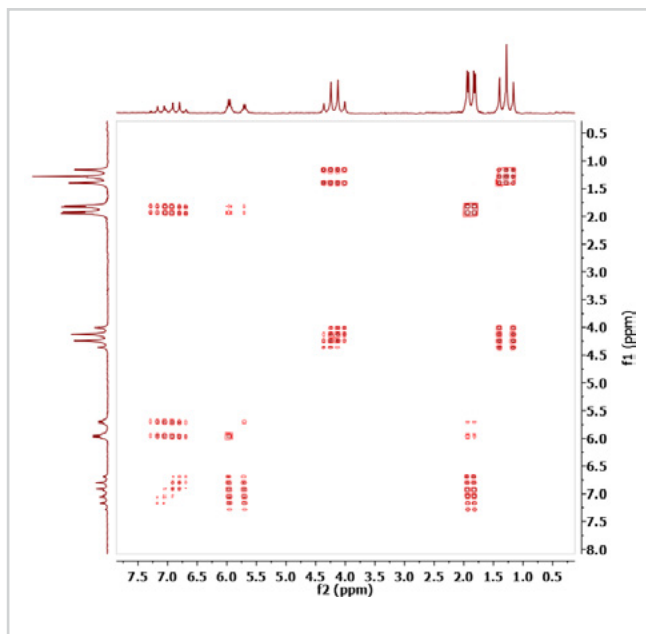
Ethyl crotonate spectrum acquired at 500 MHz (12.1 T)

Ethyl crotonate spectrum acquired at 60 MHz (1.45 T)

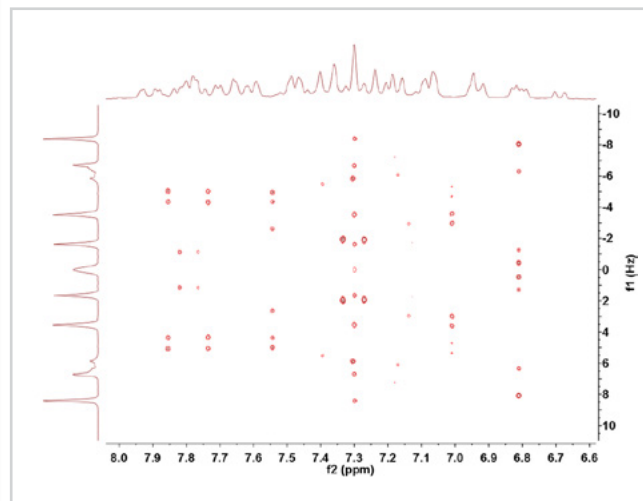
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INSTRUMENTS

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**Pulsar** offers a range of 2D NMR experiments including COSY; J-resolved and TOCSY.



Correlation Spectroscopy (COSY) data for ethyl crotonate



J-resolved spectroscopy of the aromatic region of 2-(2-hydroxy-phenyl) benzothiazole



**Contact us now for more information**  
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visit [www.oxford-instruments.com/pulsar](http://www.oxford-instruments.com/pulsar) for more information

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