

Benchtop NMR

The Magritek Spinsolve benchtop NMR spectrometer provides excellent performance, ease of use and robust operation – all in a compact size that fits on the bench. It is very stable which makes it ideal for applications, such as teaching laboratories, which require samples to be measured one after the other. The software enables you to quickly switch between ^1H and ^{19}F nuclei. You can run a wide range of NMR experiments including advanced 2D methods and real-time reaction monitoring.

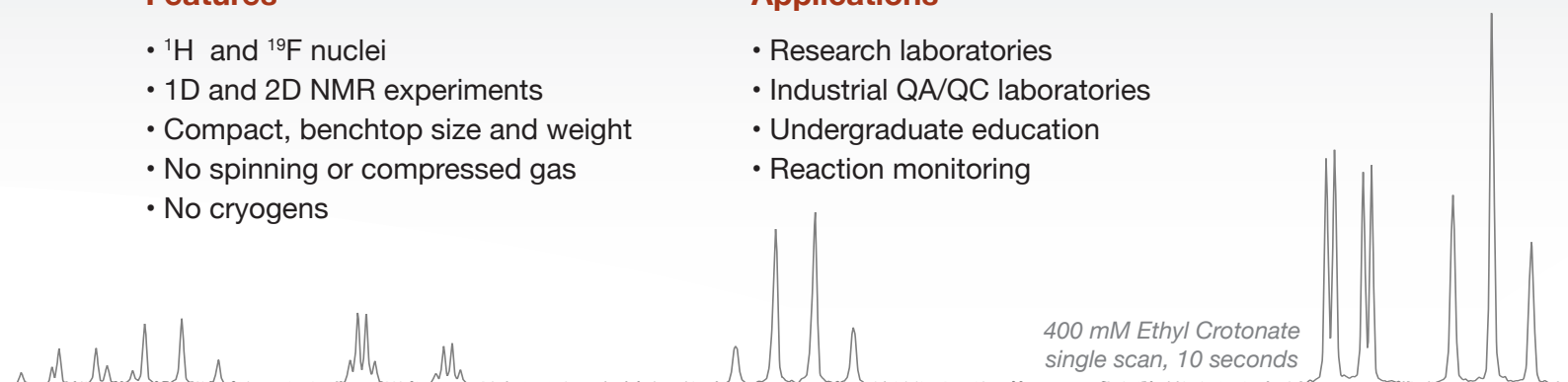


Features

- ^1H and ^{19}F nuclei
- 1D and 2D NMR experiments
- Compact, benchtop size and weight
- No spinning or compressed gas
- No cryogenics

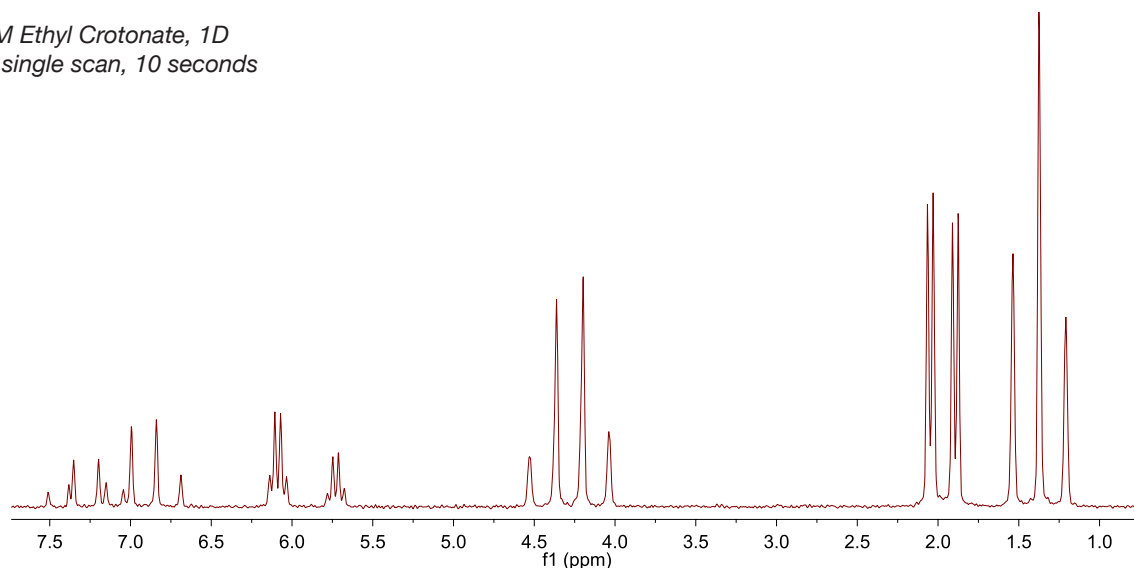
Applications

- Research laboratories
- Industrial QA/QC laboratories
- Undergraduate education
- Reaction monitoring

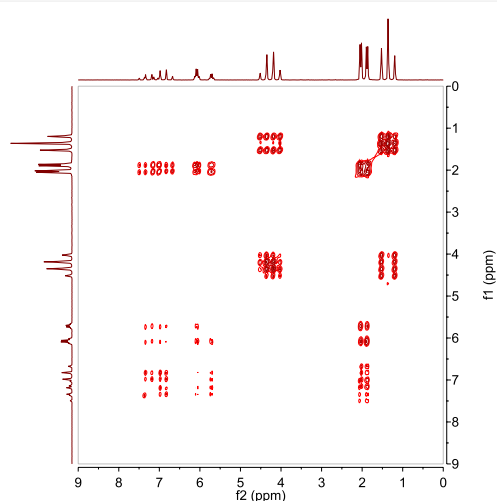


Example NMR spectra from the Spinsolve benchtop NMR

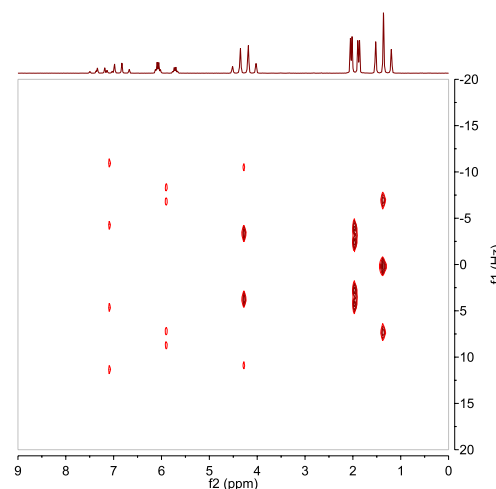
400 mM Ethyl Crotonate, 1D
proton single scan, 10 seconds



400 mM
Ethyl
Crotonate,
COSY,
10 minutes

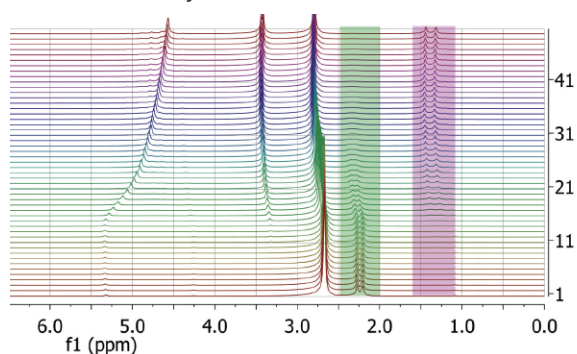


400 mM
Ethyl
Crotonate,
JRES, 40
minutes



The high sensitivity and stability of Spinsolve make it ideal for reaction monitoring.

Acetalisation of Acetaldehyde.



Flow reaction monitoring setup

Software

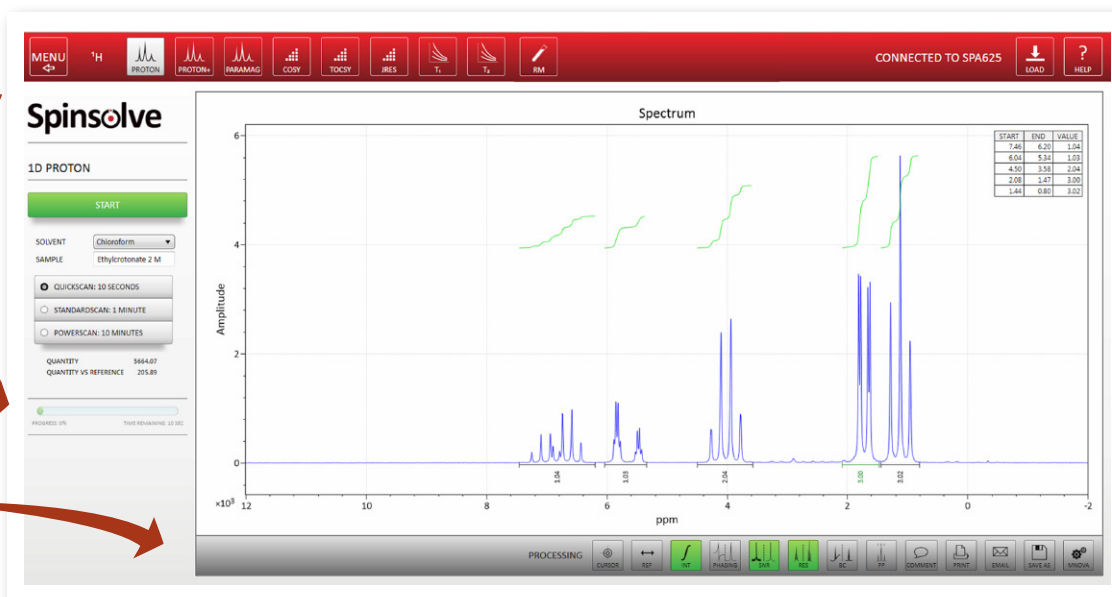
The Spinsolve software is beautifully simple and easy to use, with a clean and intuitive user interface.

Easy experiment selection in the upper menu

Single button start

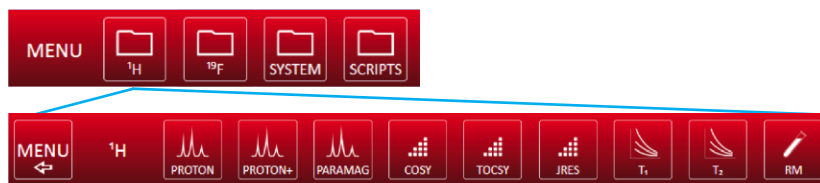
Progress bar

One-click processing buttons



Simple menu structure

1. Click to choose nucleus
2. Click to choose experiment
3. Click Start (watch status on the progress bar)
4. Click any processing you wish to apply



Magritek Experiment Guides and Collateral

Magritek has a wide range of application notes, lab manuals, and case studies, as well as a comprehensive Chemistry Education Experiment Manual.

See the downloads page on our website:

<http://www.magritek.com/products/spinsolve/downloads/>





Specifications

- Nuclei: ^1H , ^{19}F
- Operating frequency: 43 MHz (^1H)
- ^1H 50% Linewidth: < 0.5 Hz
- ^1H 0.55% Linewidth: < 20 Hz
- ^1H Sensitivity: >100:1 for 1% Ethyl Benzene
- Operating Temperature Range: 20° C to 25° C (68° F to 77° F)
- Dimensions: 58 x 43 x 40 cm (23" x 17" x 16")
- Weight: 55 kg (120 lb)
- Stray Field: < 2 G all around system
- Power requirement: 110-240V AC



Pulse sequences available on the Spinsolve spectrometer

Proton	Fluorine
1D	1D
Paramagnetic	Paramagnetic
2D COSY	2D F - COSY
2D TOCSY	2D F - JRES
2D JRES	2D FH - COSY
T_1 , T_2	Reaction Monitoring
Reaction Monitoring	

Other sequences may be available, contact Magritek for details.

Contact us now for a quote, or to arrange a demo or sample measurement.

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