

Spinsolve® 60



60 MHz benchtop NMR

The Magritek Spinsolve 60 NMR spectrometer sets a new standard for 60MHz benchtop NMR instruments. The Spinsolve 60 spectrometer provides high quality ^1H and ^{19}F NMR spectra in seconds, right where it is needed - at your laboratory bench.



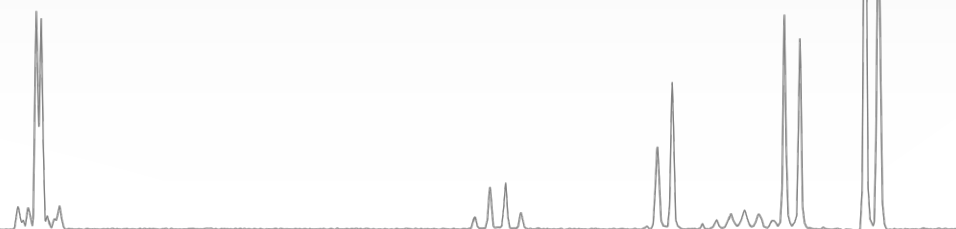
Features

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

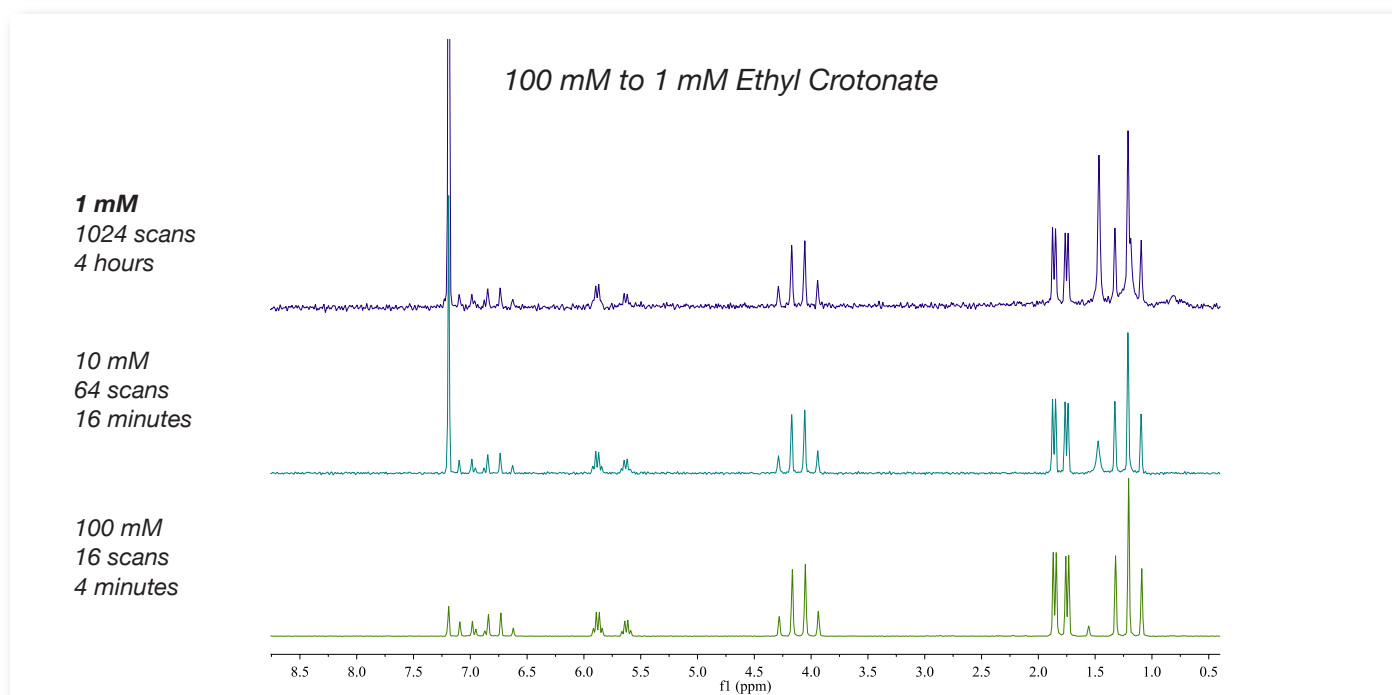
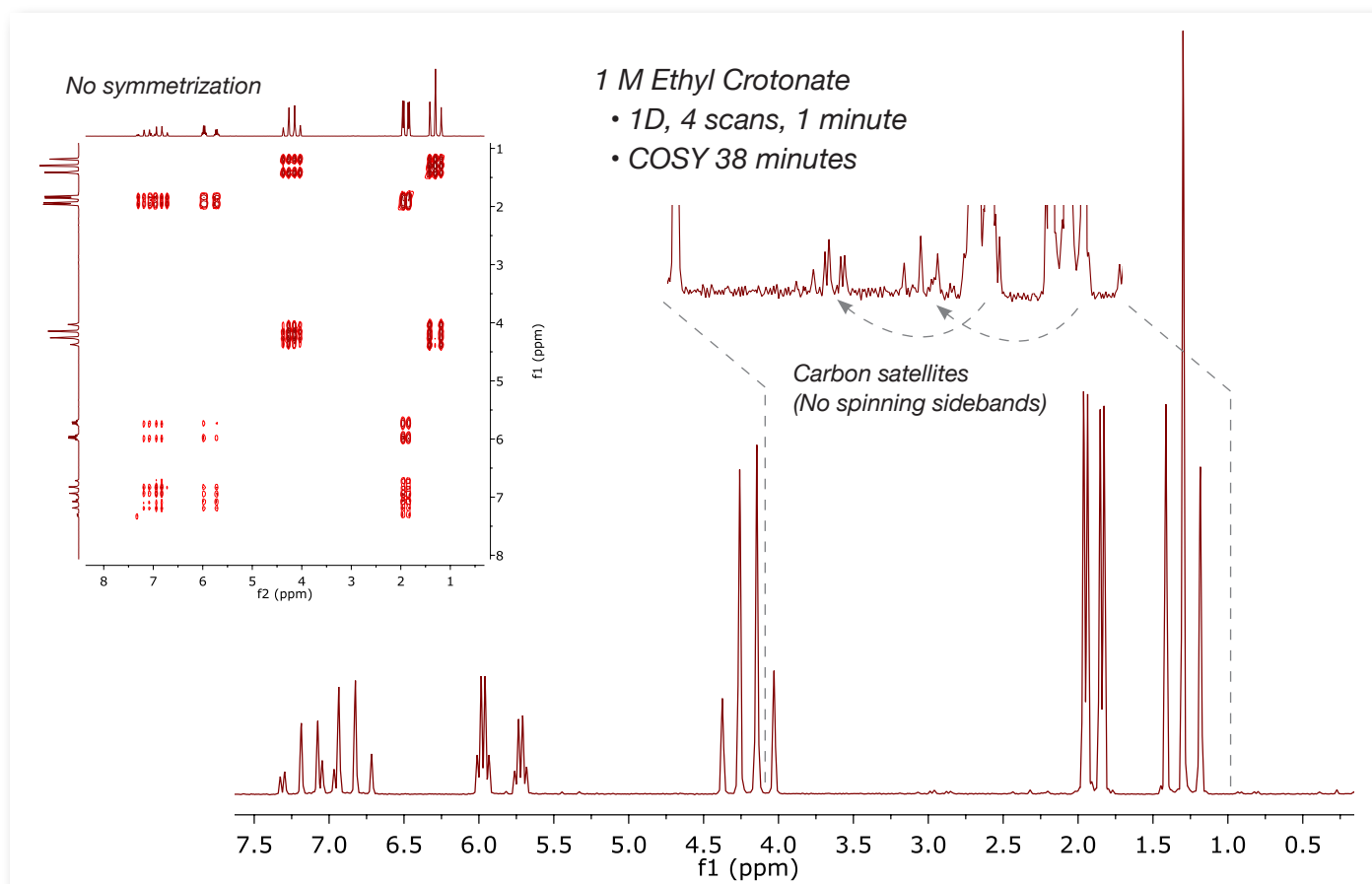
Applications

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

250 mM Ibuprofen, single scan, 10 seconds

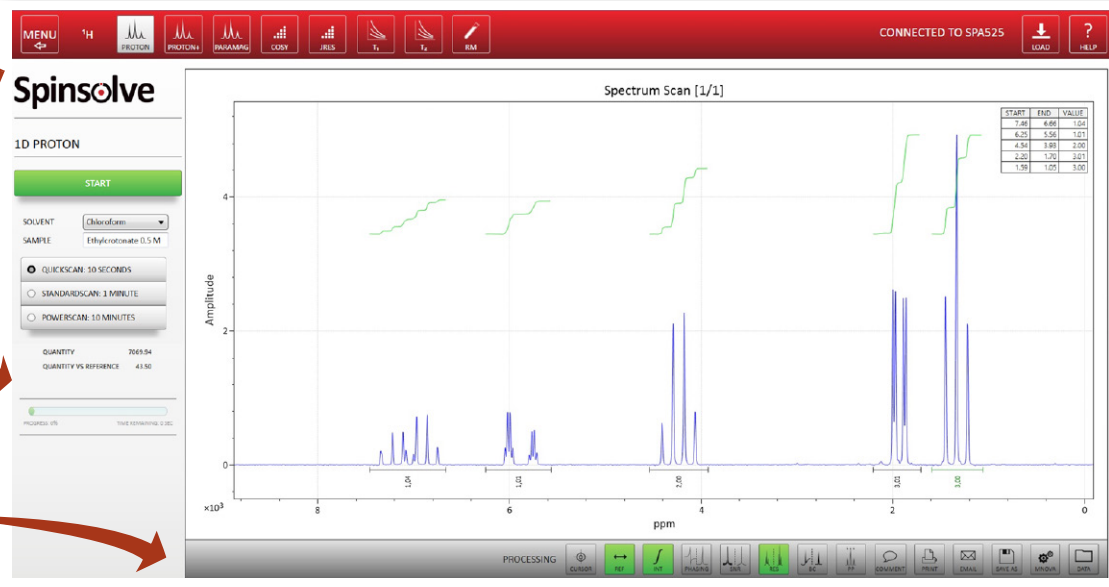


Example spectra from the Spinsolve 60 benchtop NMR



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

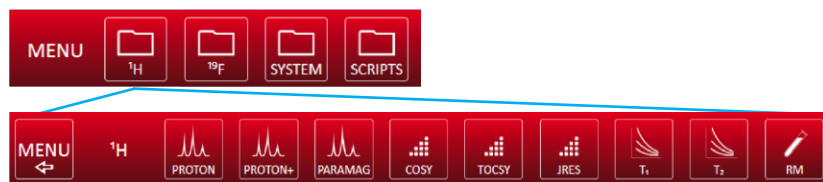
Progress bar

One-click processing buttons

The screenshot shows the Spinsolve software interface. At the top is a red menu bar with icons for various experiments: MENU, ¹H, PROTON, PROTON+, PARAMAG, COSY, JRES, T₁, T₂, and RM. Below the menu bar, on the left, is a control panel for a 1D PROTON experiment. It includes a 'START' button, solvent selection (Chloroform), sample selection (Ethylchloroate 0.5 M), and scan type options: QUICKSCAN: 10 SECONDS, STANDARDSCAN: 1 MINUTE, and POWERSCAN: 10 MINUTES. A progress bar is shown below these options. On the right is a large plot area displaying a 'Spectrum Scan [1/1]' with Amplitude on the y-axis and ppm on the x-axis. The plot shows several peaks. A table in the top right corner of the plot area lists peak data: START, END, and VALUE. At the bottom of the interface is a row of processing buttons: PROCESSING, CLEAN, PHASE, INTEGRATE, BASELINE, and others.

Simple menu structure

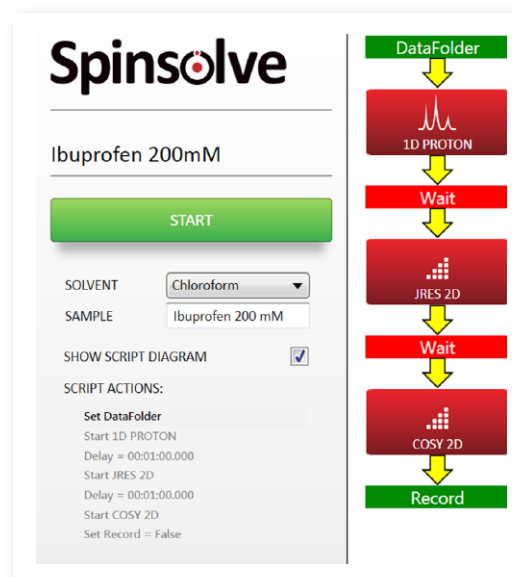
1. Click to choose nucleus
2. Click to choose experiment
3. Click Start (watch status on the progress bar)
4. Click any processing you wish to apply



Automate experiments with scripts

Using scripts the user can queue a series of experiments to run sequentially. A range of script templates are provided for easy modification. Scripts are displayed graphically to provide a clear picture of the sequence.

This script shown here performs a 1D Proton experiment, followed by a JRES and then a COSY.



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Specifications

- Nuclei: ^1H , ^{19}F
- Operating frequency: 60 MHz (^1H)
- ^1H 50% Linewidth: < 0.5 Hz
- ^1H 0.55% Linewidth: < 20 Hz
- ^1H Sensitivity: >180:1 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: 60 kg (120 lb)
- Stray Field: < 2 G all around system
- Power requirement: 110-240V AC



Pulse sequences available on the Spinsolve 60 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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