The Spinsolve 60 Carbon benchtop NMR spectrometer gives you a remarkable 60 MHz NMR spectrometer in a compact benchtop instrument. The spectrometer is capable of a wide range of $^1$H, $^{19}$F, and $^{13}$C NMR experiments. The software is beautiful and easy for anyone to use. You can also quickly automate running multiple experiments with flexible scripting.

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

**Features**
- 1D and 2D NMR experiments
- $^1$H, $^{19}$F and $^{13}$C nuclei
- No spinning or compressed gas
- Compact, benchtop size and weight
- No cryogens

**13C ($^1$H) 500 mM Ibuprofen**
Spectra from the Spinsolve 60 Carbon benchtop NMR

2 M Ibuprofen, 1D proton, single scan, 10 seconds

2 M Ibuprofen, 1D Carbon and DEPT spectra, total time 10 minutes

2 M Ibuprofen, HSQC-ME, ~1 hour

Neat Diethyl phthalate, 1D Carbon plus three DEPT spectra, total time 10 minutes

2 M Ibuprofen, HMBC, ~2 hours
Software

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

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
A range of script templates are provided for easy user modification. Scripts are displayed graphically to provide a clear picture of the sequence.

This script runs a sequence of a 1D proton, a 1D carbon, a DEPT, an HSQC-ME, and an HMBC.
Spinsolve 60 Carbon

Specifications

- Nuclei: $^1$H, $^{19}$F, $^{13}$C
- Operating frequency: 60 MHz ($^1$H)
- $^1$H 50% Linewidth: < 0.5 Hz
- $^1$H 0.55% Linewidth: < 20 Hz
- $^1$H Sensitivity: >130:1 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 Carbon spectrometer

<table>
<thead>
<tr>
<th>Proton</th>
<th>Fluorine</th>
<th>Carbon</th>
</tr>
</thead>
<tbody>
<tr>
<td>1D</td>
<td>1D</td>
<td>1D</td>
</tr>
<tr>
<td>Paramagnetic</td>
<td>Paramagnetic</td>
<td>DEPT</td>
</tr>
<tr>
<td>2D COSY</td>
<td>2D F - COSY</td>
<td>HETCOR</td>
</tr>
<tr>
<td>2D TOCSY</td>
<td>2D F - JRES</td>
<td>HMBC</td>
</tr>
<tr>
<td>2D JRES</td>
<td>2D FH - COSY</td>
<td>HMQC</td>
</tr>
<tr>
<td>$T_1$, $T_2$</td>
<td>Reaction Monitoring</td>
<td>HSQC</td>
</tr>
<tr>
<td>Reaction Monitoring</td>
<td></td>
<td>HSQC-ME</td>
</tr>
</tbody>
</table>

Other sequences may be available, contact Magritek for details.

Contact us now for a quote, to request a demo or to measure your samples

Email: sales@magritek.com
Website: www.magritek.com/contact-us

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