

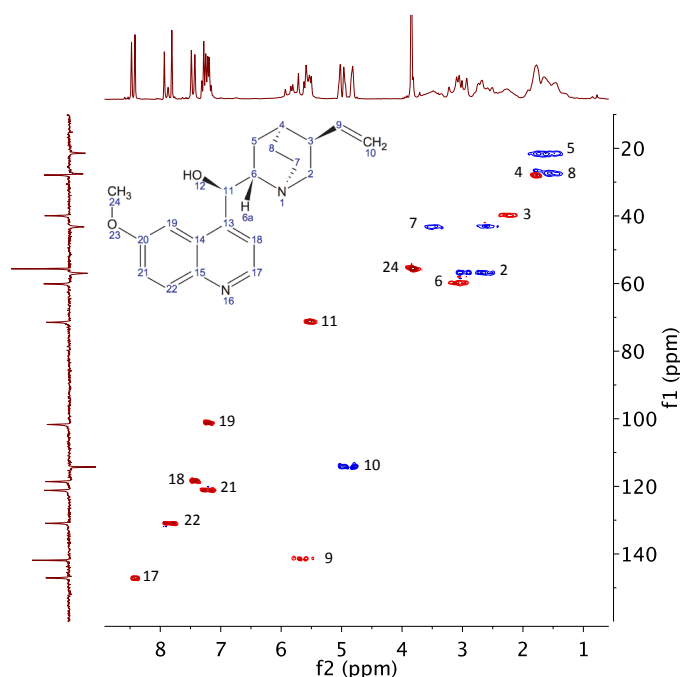
Spinsolve 80

Experience the power of a Spinsolve benchtop NMR spectrometer



Outstanding Features

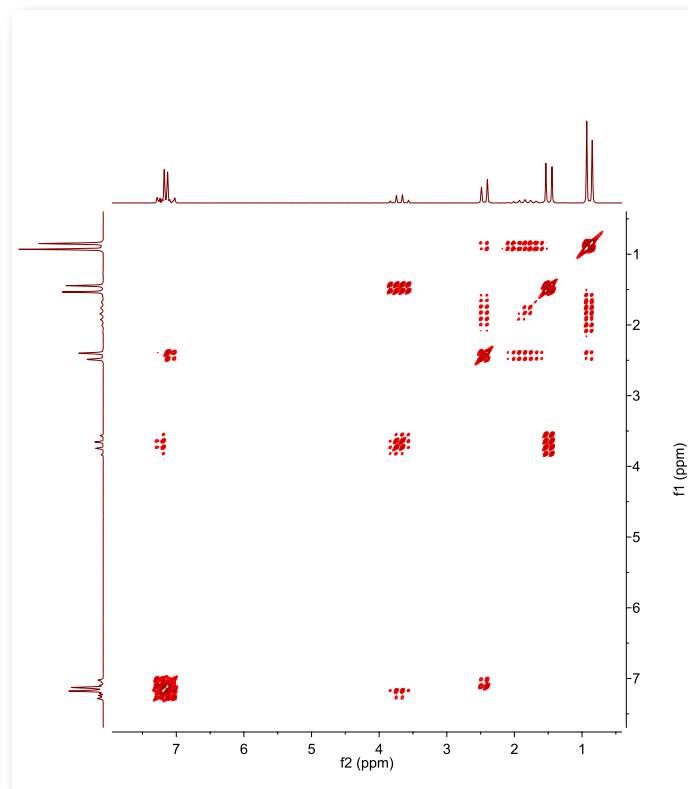
- 80 MHz ^1H frequency
- High sensitivity: 200:1 (1% EtBz)
- Superb Resolution
 - Classic LW 50/0.55% < 0.4 / 16 Hz
 - ULTRA LW 50/0.55/0.11% < 0.25 / 10 / 20 Hz
- Multi-nuclear probe
- 5 mm standard NMR tubes
- No sample spinning required
- Advanced methods like COSY, HSQC, HMBC, NOAH, NUS (all gradient assisted)
- Benchtop size and weight
- No cryogenics
- Available with automatic sample changer
- On-line reaction monitoring



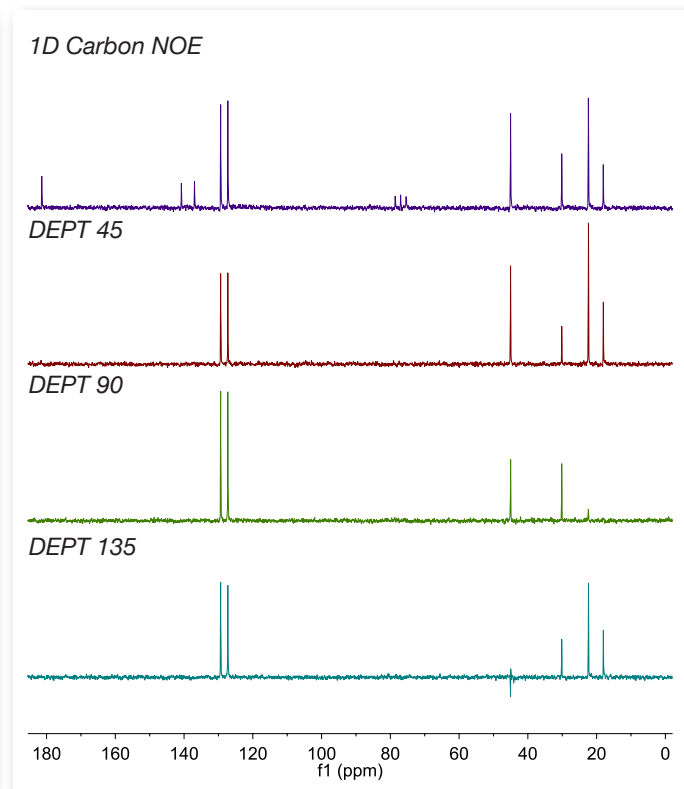
80 MHz HSQC-ME of Quinine

The most advanced multi-nuclear methods... in one click!

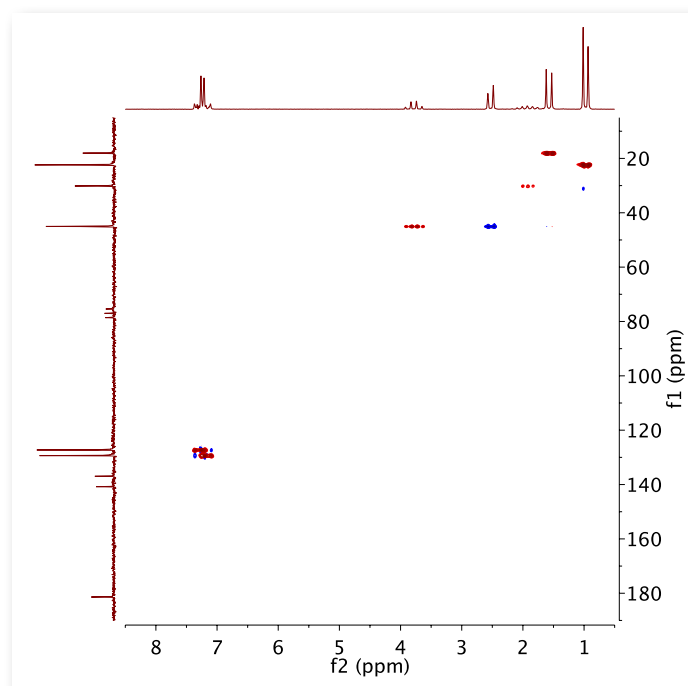
80 MHz NMR spectra of Ibuprofen



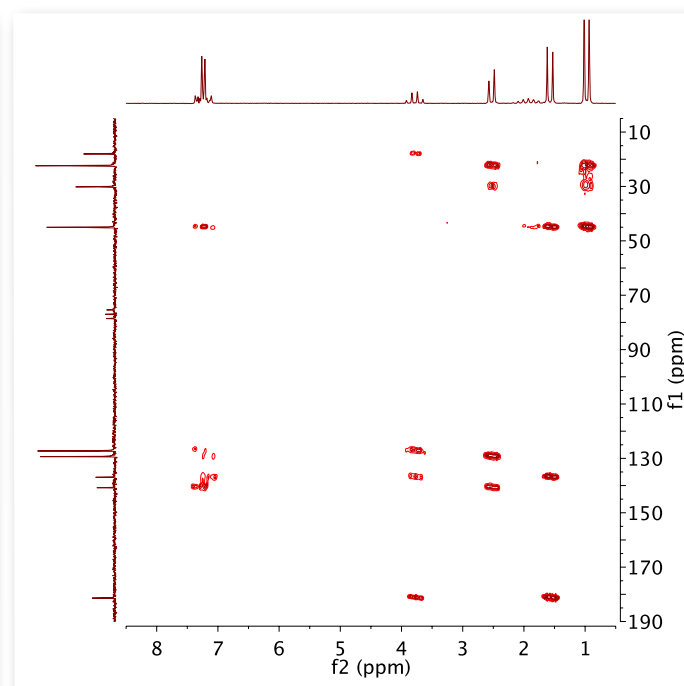
H-H COSY



1D Carbon plus DEPT 45, 90, and 135 spectra



HSQC-ME



HMBC

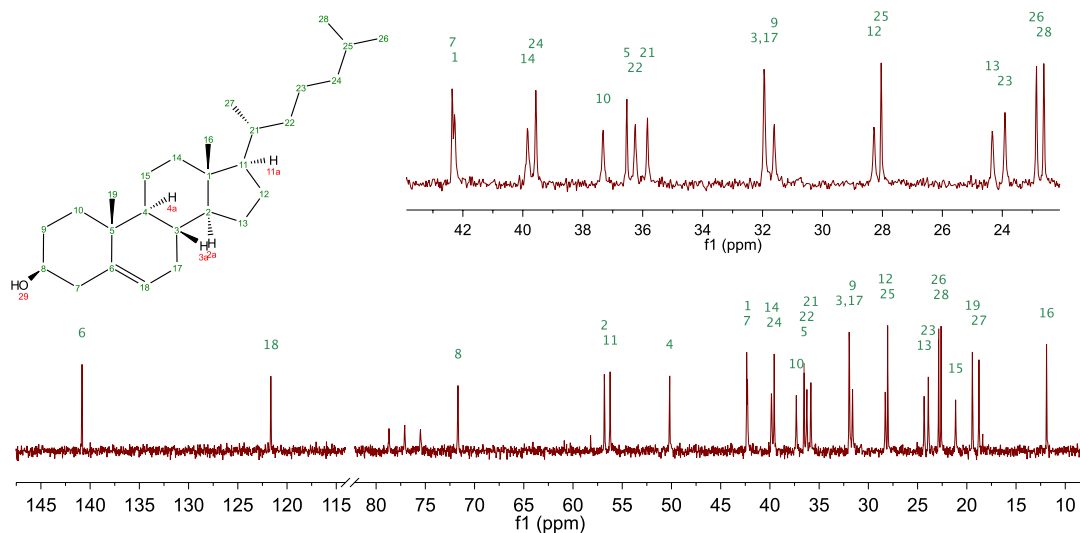
^{13}C spectroscopy exploited for structure elucidation

Cholesterol

C₂₇H₄₆O, Mw: 386.65 g/mol

Concentration: 400 mMolar

Solvent: CDCl₃

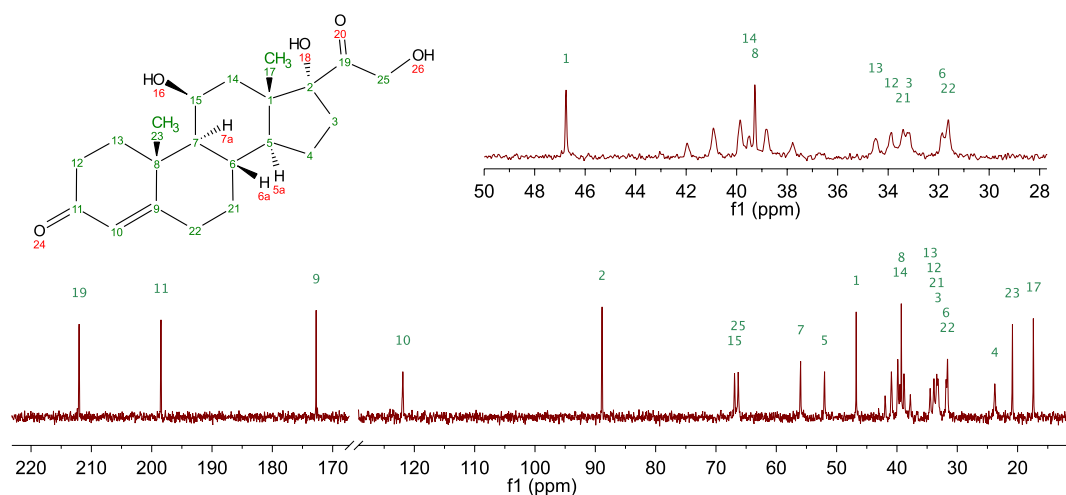


Hydro-Cortisone

C₂₁H₃₀O₅, Mw: 362.4 g/mol

Concentration: 500 mMolar

Solvent: DMSO

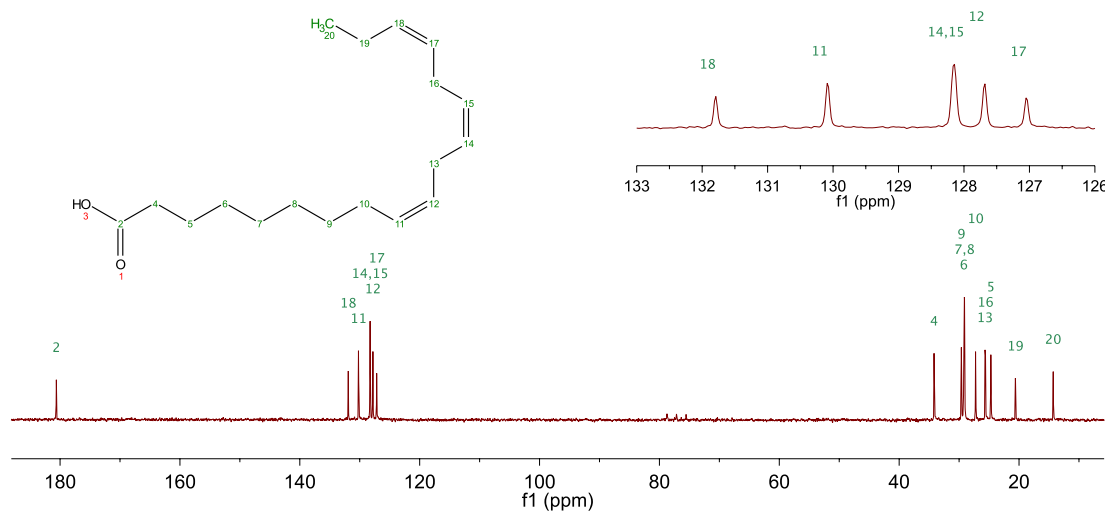


α -Linolenic

C₁₈H₃₀O₂, Mw: 278.44 g/mol

Concentration: 1 Molar

Solvent: CDCl₃



Spinsolve 80



Specifications

- Nuclei: ^1H , ^{19}F , ^{13}C (Other Nuclei Available)
- Operating frequency: 80 MHz (^1H)
- ^1H Linewidth:
 - Classic 50 / 0.55% < 0.4 / 16 Hz
 - ULTRA 50 / 0.55 / 0.11% < 0.25 / 10 / 20 Hz **NEW**
- ^1H Sensitivity (dual channel): >200:1 for 1% Ethyl Benzene
- Operating Temperature Range: 18° C to 28° C (65° F to 82° F)
- Dimensions: 58 x 43 x 40 cm (23" x 17" x 16")
- Weight: 72.5 kg (160 lb)
- Stray Field: < 2 G all around system
- Voltage Requirement: 100-240 VAC, 50/60 Hz
- Available with automatic sample changer
- Available with pulsed field gradients **NEW**



Pulse sequences available on the Spinsolve 80 Carbon spectrometer

Proton	Fluorine	Carbon
1D proton	1D Fluorine with ^1H decoupling	1D Carbon with ^1H and ^{19}F decoupling
1D PRESAT solvent suppression	Paramagnetic	DEPT
1D with ^{19}F and ^{13}C decoupling	2D F - COSY	APT
2D COSY	2D F - JRES	HETCOR
2D TOCSY	2D FH - COSY	HSQC
2D ROESY	T_1	HSQC-ME
2D JRES	PFG-DOSY	HMQC
T_1 , T_2	Reaction Monitoring	HMBC
PFG-DOSY		
Reaction Monitoring		

Other sequences available, contact Magritek for details.

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

Email: sales@magritek.com

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