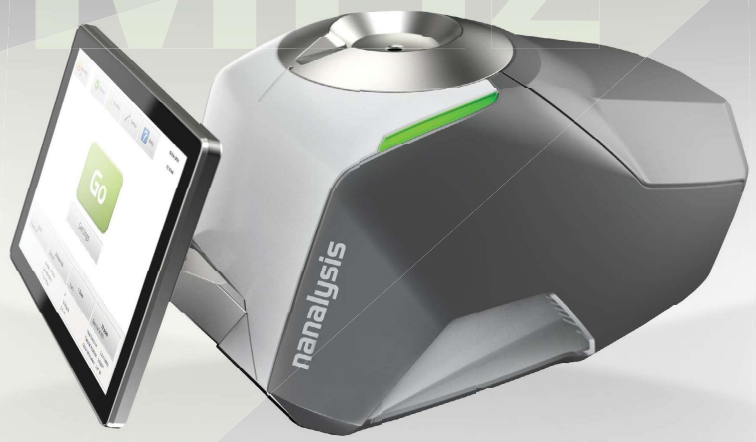
nanalysis™

100 MHz Benchtop NMR



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POWERED BY CAM

SEE THE DIFFERENCE.

Find out more at **nanalysis.com** | **sales@nanalysis.com** | **1-855-667-3239**

Superior Resolution
The highest field on the market, the Nanalysis 100 allows you to extract more information from your spectrum with better peak dispersion and resolution.

Rapid Results
Discover how high-performance benchtop NMR located directly in your lab can improve your productivity!

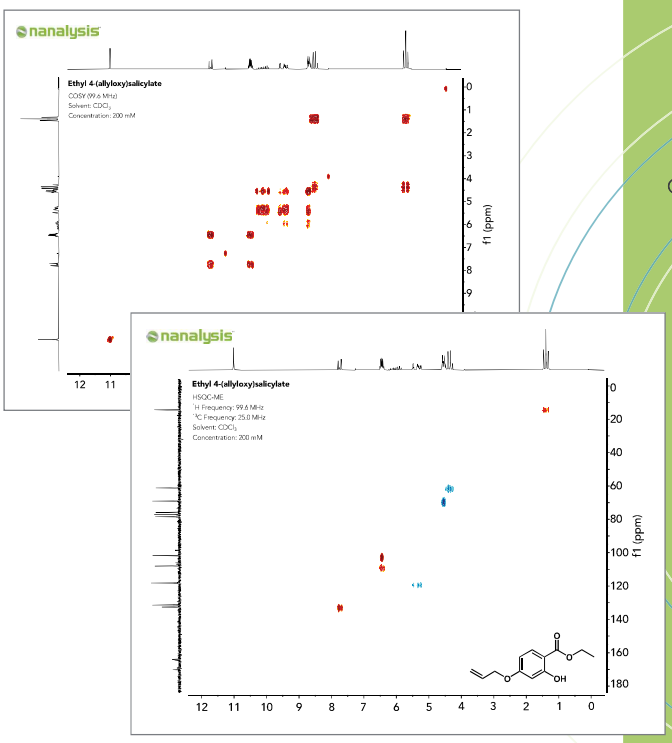
Low Maintenance
With no required cryogens, these permanent magnet NMR spectrometers can significantly reduce operating expenditures.

Easy-to-Use
The instrument facilitates quick data collection and processing at any level, with an ergonomic display and an easy-to-use software interface.

Configurable
Advanced graphical pulse programming capabilities, the 100 MHz spectrometer allows the user to run experiments exactly as they want.

Quick and Easy-to-use
Configure
Acquire
Analyze

nanalysis™



Design Pulse Sequences
Our advanced SPINit software allows users to modify existing pulse sequences, or to write their own via an easy-to-use graphical interface that generates pulse programs without requiring the user to learn a coding language.

Queue Experiments
The queuing module allows the user to set up a series of experiments to be acquired automatically (*e.g.*, 1D, T_1, T_2, COSY, TOCSY, JRES, DEPT, HSQC, HMBC, etc.).

Inquire about available nuclei configurations to enhance the utility of the 100 MHz for characterization of a broad range of natural and synthetic complexes. Observe a number of spin active nuclei including: ^{1}H, ^{7}Li, ^{11}B, ^{13}C, ^{15}N, ^{19}F, ^{23}Na, ^{31}P, ^{129}Xe, etc.

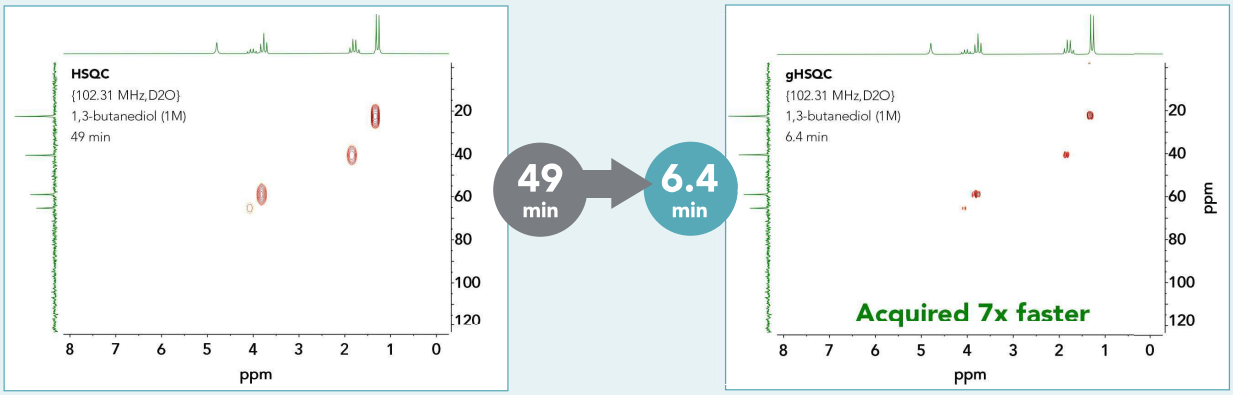
Powerful Benchtop NMR

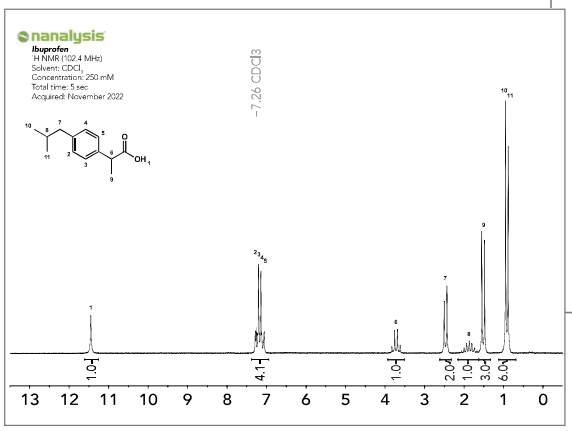
Why Nanalysis 100 MHz?

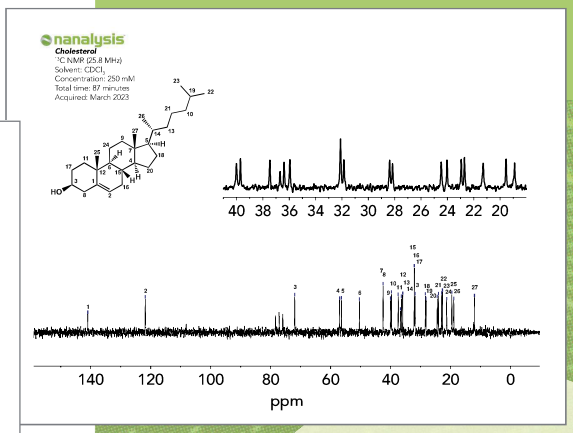
Easy-to-use, low-maintenance 100 MHz NMR improves productivity with rapid and accurate results. Acquire the NMR experiments you want and receive your results quickly and easily.

Pulsed Field Gradients (PFGs)

1 Enhance solvent suppression routines	Solvent suppression routines are used to suppress strong signals, typically solvent, in the spectrum. Gradient-based approaches, such as WET, often yield a higher-quality suppression signal.
2 Speed up 2D NMR data acquisition	The advantage of using gradient-based pulse programs to acquire your 2D NMR spectra is that data can typically be acquired faster and with fewer artifacts than conventional sequences.







100e
(^{1}H / ^{19}F)

Versatile User Interface
Acquisition parameters are easily modified by the user through the use of the ergonomic touchscreen, a keyboard and mouse, or through an external computer.

Load Standard Experiments
100PRO – *e.g.*, ^{1}H/^{19}F/^{13}C, ^{1}H/^{19}F/^{31}P
The standard experiments for the ^{1}H/^{19}F/^{13}C configuration include: 1D, 1D{^{1}H}, T_1, T_2, COSY, JRES, TOCSY, HSQC, DEPT, APT, HETCOR, HMBC, etc.
Please inquire about additional pulse sequences or the experiment designer.
100e – ^{1}H/^{19}F
1D, T_1, T_2, COSY, JRES & TOCSY

Technical Specifications

Operating Frequency
100 MHz (2.35 T)

Magnet
Permanent, no cryogens

User Interface
Built-in touchscreen and remote access. Connectable to external computer if desired.

Nuclei

100PRO

***e.g.*,^{1}H/^{19}F/^{13}C, ^{1}H/^{19}F/^{31}P**
Please inquire about custom options.

100e

^{1}H/^{19}F

Lock
Internal ^{2}H

Sample
Standard 5 mm NMR tubes

Compatibility
File: **JCAMP-DX and CSV**
Software: **Mnova, ACD/Labs, Delta, TopSpin, MATLAB, SPINit, NMRFx, etc.**

* Specifications are subject to change without notice

Resolution
LW(50%) <0.5 Hz (<0.005 ppm)

Sensitivity
>220 : 1
(1% Ethylbenzene, 1 scan)

Stray Field
2 Gauss line contained within enclosure

Operating Temperature
18 – 26 °C

Power Supply
100 – 240 VAC, 50 – 60 Hz

Connectivity
Ethernet/WiFi, USB, Serial, HDMI

Dimensions with screen (w x h x d)
17 x 15.25 x 32"
43.2 x 38.74 x 81.28 cm

Screen size and resolution
15.6", 16:9, 1920 x 1080

Weight
243 lbs /110 kg

Available Experiments

- 1D
- T_1
- T_2
- COSY
- JRES
- HSQC
- HSQC-ME
- DEPT
- APT
- HETCOR
- TOCSY
- Nutation
- **Add-on packages** (kinetics, gradient-based experiment library, solvent suppression, extended experiment library)

Please inquire about additional pulse sequences or experiment designer.

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