nanalysis™

60

Benchtop NMR

Nanalysis-60

Standard field strength.
Superior NMR data.

NEW

Introducing Nanalysis-60

- State-of-the-art, all-in-one benchtop NMR spectrometer
- Easy-to-site design and easy-to-use interface
- Flexible for manual use as a fully featured NMR spectrometer OR automated for routine QA/QC
- Advanced features such as phase-sensitive experiments and gradients

Quick and Easy-to-use

Configure
Acquire
Analyze

> Simple operation
> Accurate, precise, repeatable
> Quick data collection

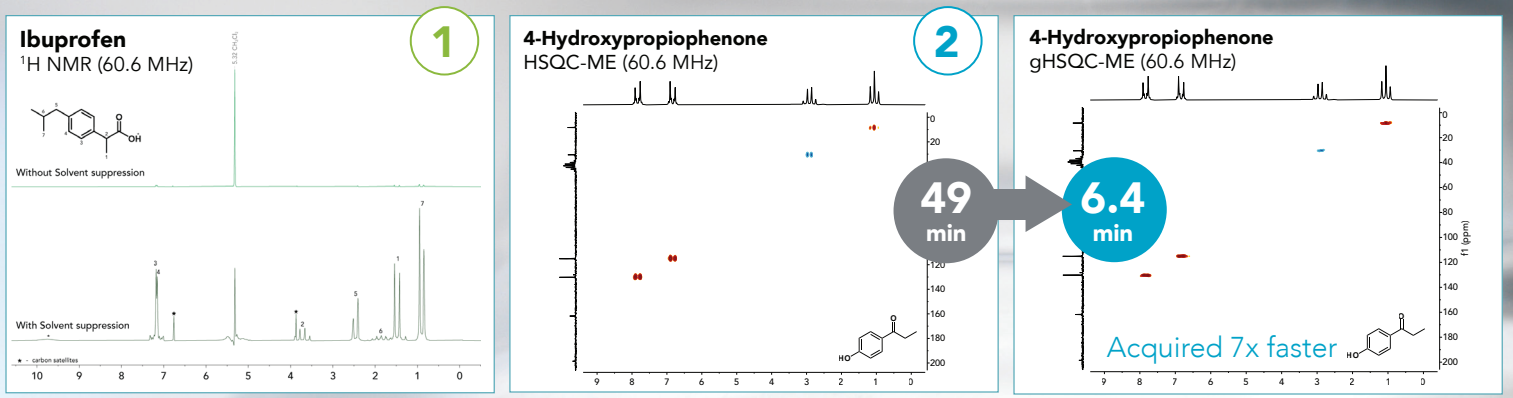
Pulsed Field Gradients (PFGs)

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.



Example gradient sequences available: WET, 1D-CPMG-filter-WET, gCOSY, gTOCSY, gHSQC, gHSQC-ME, gHMQC, gHMBC

Optional Advanced Software Add-ons

Are you looking for a software package to optimize your analysis?
Some examples of optional modules to aid your analysis:

Kinetics – Automatically run scheduled 1D experiments over a set period of time (e.g., reaction monitoring).

Queuing – Set up multiple experiments to be run automatically with or without an autosampler.

Solvent Suppression – A number of optional pulse programs to optimize the suppression of a strong signal (often solvent).

Proton Lock – To allow the user to acquire data without deuterated solvent.

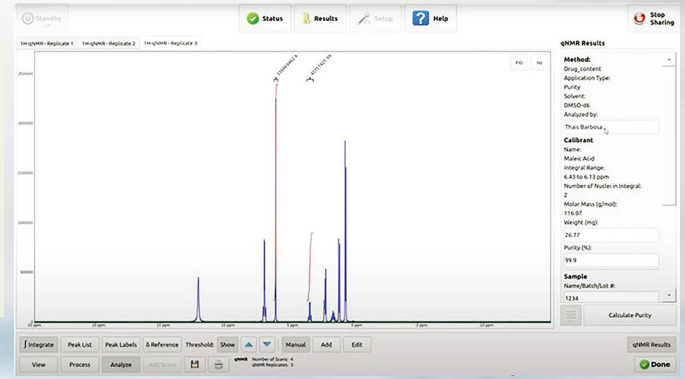
Experiment Designer – Advanced module allowing expert users to design and/or modify their own NMR pulse sequences.

API Access – An application programmatic interface to allow users to create their own applications to interface with the benchtop NMR.

IQ/OQ – Installation Qualification/Operational Qualification to help ensure your instrument is working well and compliant with GxP and regulatory requirements.

qNMR software module

An automated, easy-to-use software module to allow you to create and edit method to automate routine assays and allow technicians to collect quantitative data effortlessly.



Technical Specifications

Operating Frequency
60 MHz (1.40 T)

Magnet
Permanent, no cryogens

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

Nuclei
$^{1}H/^{19}F$, $^{1}H/^{19}F/^{13}C$, $^{1}H/^{19}F/^{7}Li$, $^{1}H/^{19}F/^{31}P$
Please inquire about custom options.

Lock
Internal ^{1}H and ^{2}H options

Sample
Standard 5 mm NMR tubes

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

Resolution
LW (50%) < 0.5 Hz (< 0.008 ppm)
LW (0.11%) < 10 Hz (< 0.17 ppm)

Sensitivity
> 180:1 single channel
> 130:1 dual channel
(1% Ethylbenzene, 1 scan)

Stray Field
< 2 Gauss line outside the 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)
13 x 23.75 x 12.25"
33.02 x 60.3 x 31.1 cm

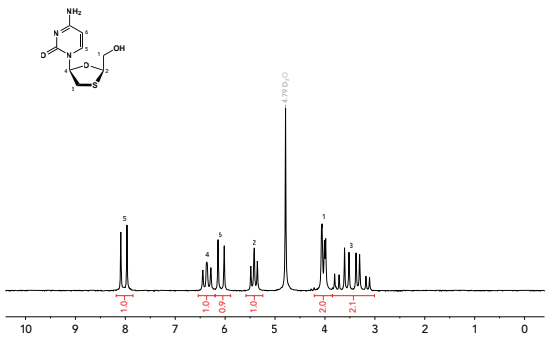
Weight
96.5 lbs / 43.8 kg

Example Experiments Available

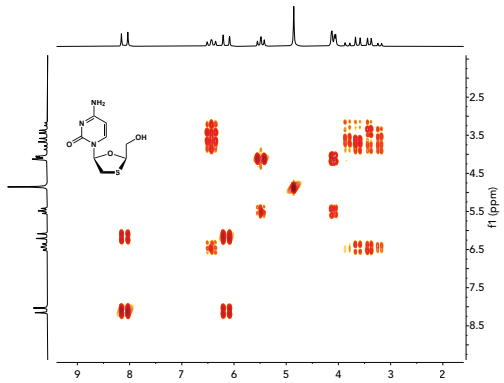
1D	**HSQC**
1D{^{1}H}	**HSQC-ME**
COSY	**HMBC**
TOCSY	NOESY
JRES	ROESY
T_1	PRESAT
T_2	NOESY-PRESAT
DEPT	DANTE
APT	WET
HETCOR	**Nutation**

Default experiments are bolded

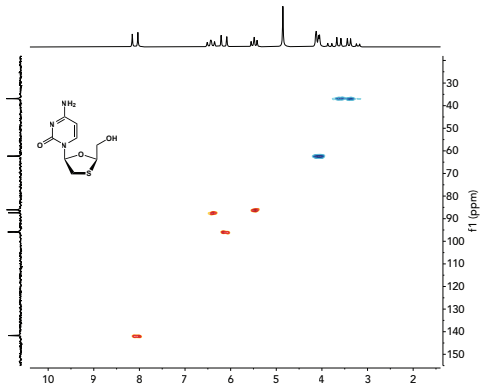
Lamivudine ^{1}H NMR (61.5 MHz)

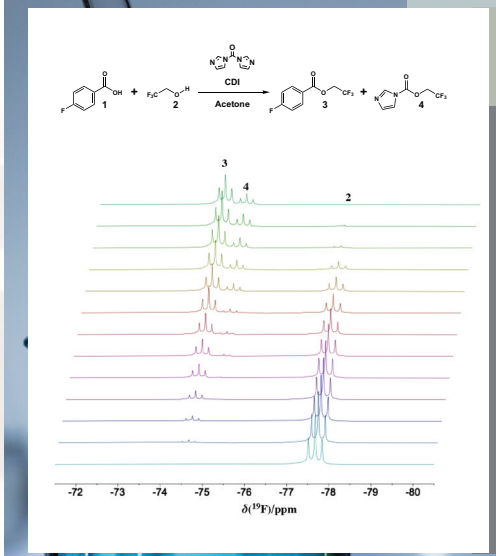


Lamivudine gCOSY (61.5 MHz)



Lamivudine gHSQC-ME (61.5 MHz)





Simple Reaction Monitoring

Flow Kit

The flow kit allows easy interconversion of any Nanalysis-60 benchtop NMR spectrometer into an online detector either as a stand-alone tool or in conjunction with other analytical techniques.

* Specifications are subject to change without notice

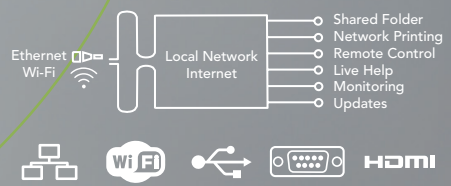
Innovative Magnet Design
Compact and portable

Sample Access Port
5 mm NMR tubes

Progress Indicator
Large lit surface to help you monitor the status of your instrument from anywhere within the lab

Ergonomic Display
State-of-the-art, external customizable screen for easy data acquisition and processing

Connectivity



If you would like further information about the product or any of the optional software packages, please contact

sales@nanalysis.com

Find out more at **nanalysis.com** I **sales@nanalysis.com**

Robust, Compact, Portable

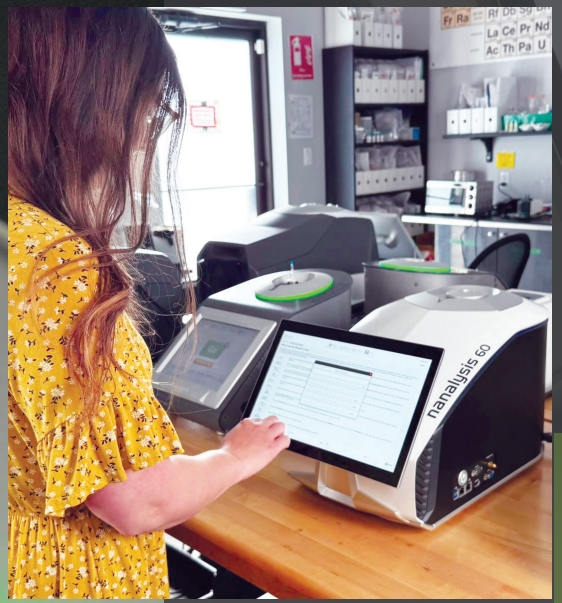
All-in-one compact benchtop NMR, easy-to-site anywhere making hands-on access simple.

Low Maintenance

Reduce operating expenditures with permanent magnet NMR spectrometers that require no cryogens, no preventative maintenance, or weekly servicing.

Rapid Results

Discover how a high-performance benchtop NMR located directly on your bench can improve your productivity!



Quick and Easy-to-use

With an simple but modifiable interface controlled by touchscreen, keyboard/mouse or external computer, data can be acquired easily by the user.

Configurable

Run standard acquisition parameters from a convenient pop-up menu and modify as desired to get the results you want.

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