

# 60 MHz

## Benchtop NMR



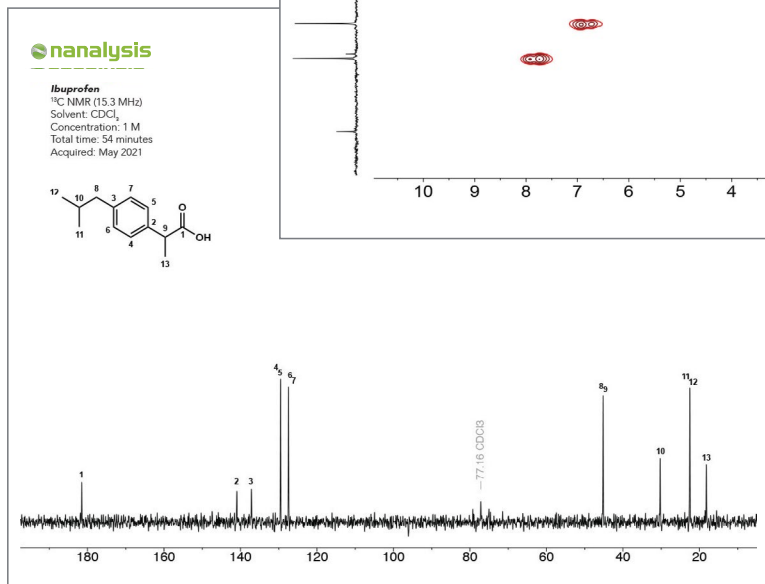
*Our Flagship Benchtop NMR*

## **Nanalysis 60 MHz**

With the magnet, electronics, and computer in a single enclosure, the 60 MHz is the best all-in-one benchtop NMR spectrometer in its class. This compact and high performance benchtop NMR is resilient to the rigors of a busy laboratory environment.



Talk to us about your benchtop NMR application | [sales@nanalysis.com](mailto:sales@nanalysis.com)



## System Validation

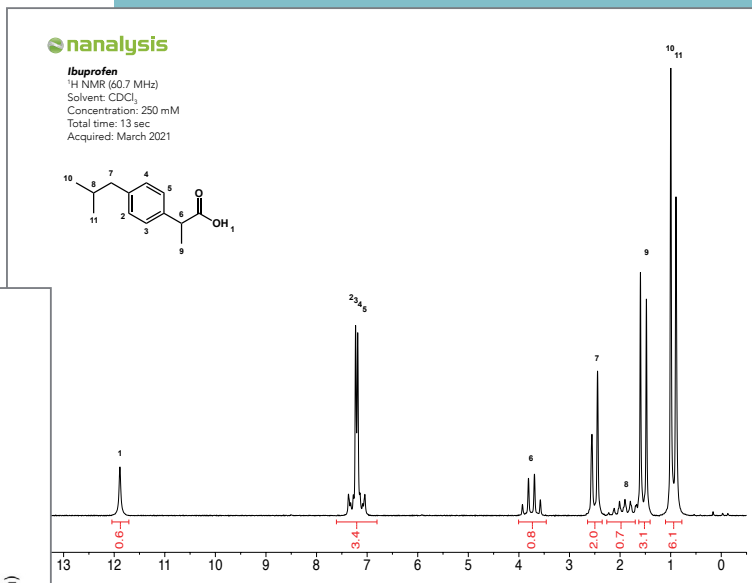
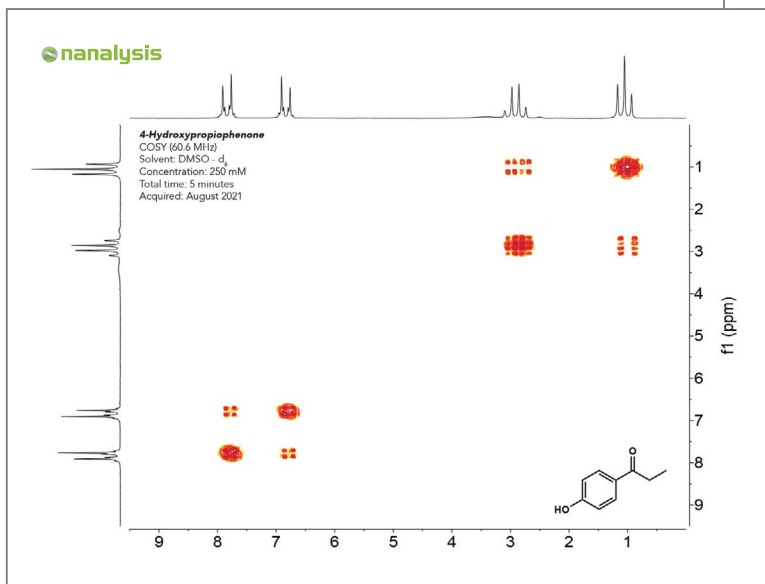
Nanalysis offers an optional software package for Installation Qualification (IQ) and Operational Qualification (OQ) to help meet GxP requirements. Our IQ/OQ protocol provides data quality and integrity assurance in a simple one-click fashion, giving users quick access to a detailed report of spectrometer performance.

## Queue Experiments

Our queuing module allows the user to set up a series of experiments to be acquired automatically (e.g., 1D <sup>1</sup>H, COSY, HSQC, 1D <sup>13</sup>C{<sup>1</sup>H}).



Inquire about available nuclei configurations to enhance the utility of the 60 MHz for characterization of a broad range of natural and synthetic complexes. Observe a number of spin active nuclei including, <sup>1</sup>H, <sup>7</sup>Li, <sup>11</sup>B, <sup>13</sup>C, <sup>15</sup>N, <sup>19</sup>F, <sup>23</sup>Na, <sup>31</sup>P, etc.



### Low Maintenance and Easy-to-use

Built-in touchscreen, convenient automated and standby shimming routines ensure that the instrument is always ready for use.

### Load Standard Experiments

**60PRO** – e.g.,  $^1\text{H}/^{19}\text{F}/^{13}\text{C}$ ,  $^1\text{H}/^{19}\text{F}/^{31}\text{P}$ ,  $^1\text{H}/^{19}\text{F}/^{11}\text{B}$ , etc.

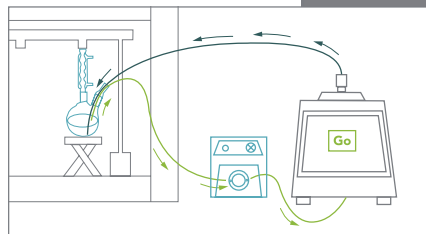
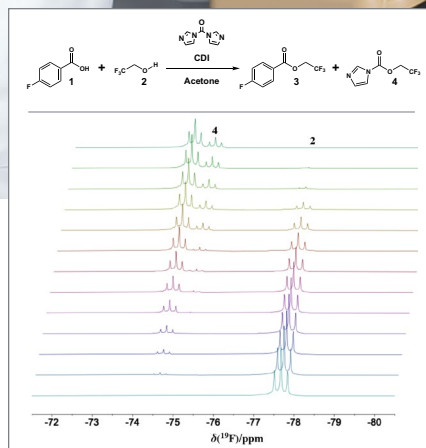
The standard experiments include 1D,  $T_1$ ,  $T_2$ , COSY, JRES, HSQC, DEPT, APT, HETCOR, etc. Please inquire about additional pulse sequences

**60e** –  $^1\text{H}/^{19}\text{F}$

1D,  $T_1$ ,  $T_2$ , COSY, JRES



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



### Simple Reaction Monitoring NMReady-flow cell kit

The NMReady-flow 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.

For more information, visit [nanalysis.com/nmready-flow](http://nanalysis.com/nmready-flow)

### NMReady-flow allows users to:

- » Understand and optimize chemical reactions in real time
- » Improve reaction yield
- » Automate repeated syntheses
- » Integrate the 60 MHz benchtop NMR spectrometer in a centralized laboratory system

If you would like further information about any of the optional software, accessories and service packages, please contact

[sales@nanalysis.com](mailto:sales@nanalysis.com)

## Technical Specifications



Operating Frequency  
**60 MHz (1.40 T)**

Magnet  
**Permanent, no cryogenes**

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

Nuclei

**60PRO**

e.g.,  $^1\text{H}/^{19}\text{F}/^{13}\text{C}$ ,  $^1\text{H}/^{19}\text{F}/^{31}\text{P}$

Please inquire about custom options

**60e**

e.g.,  $^1\text{H} / ^{19}\text{F}$

Lock

**Internal  $^1\text{H}$  and  $^2\text{H}$  options**

Sample

**Standard 5 mm NMR tubes, flow options**

Compatibility

File: **JCAMP-DX and CSV**

Software: **Mnova, ACD/Labs, Delta,  
TopSpin, MATLAB, SPINit, NMRFX, etc.**

Resolution  
**LW(50%) <0.7 Hz (<0.011 ppm)**

Sensitivity  
**100 : 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)  
**11.8 x 11 x 19.2"**  
**30 x 28 x 49 cm**

Weight  
**58 lbs / 26.3 kg**

### Available Experiments

1D
$T_1$
$T_2$
COSY
JRES
DEPT
APT
HSQC
HETCOR
TOCSY
Nutation
Add-on packages (kinetics, solvent suppression)

*Please inquire  
about additional  
pulse sequences.*



### **Robust, Compact, Portable**

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



### **Rapid Results**

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



### **Low Maintenance**

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



### **Configurable**

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



### **Quick and Easy-to-use**

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

Quick and Easy-to-use

Configure  
Acquire  
Analyze