

High-performance Benchtop NMR Spectrometers

Benchtop NMR spectrometers have proven efficacy in rapid and accurate quantification of **THC** and/or **CBD** content in trim, buds, or concentrates of hemp or cannabis. With compact 60 MHz and 100 MHz benchtop NMR platforms, sampling accessories, quantitative and a highly connective software interfaces, users can incorporate automated NMR into routine QA/QC processes.

Contact us for more information.



Why **benchtop** NMR for THC and CBD determination?

Simple sample preparation

Easy, repeatable, and operator independent, sample preparation that does not require making cumbersome dilution series.

Reduce operating expenditures

Drastically reduce consumable and waste disposal costs by eliminating the use of large-volume of expensive, high-purity solvents.

Accuracy

Build customer trust by providing your customer with reliable, repeatable.

Rapid results

No required calibration standard and measurement times that are less than one-third of the time required with traditional chromatography methods.

Automated procedure

With an autosampler and an easy-touse interface that can be customized for data acquisition and processing by technicians.

nanalysis

High-performance **benchtop** NMR spectrometers

- High quality ¹H NMR Spectra
- Easy-to-use
- Automatable processing and data analysis
- Maintain data integrity accessible and secure data
- Easy connectivity
- Low maintenance



	%w/w THC			%w/w CBD		
	Benchtop NMR*	HPLC*	%diff	Benchtop NMR	HPLC	%diff
Sample 1	81.3 (0.7)	81.8 (1.4)	0.6	_**	<1	n/a
Sample 2	_**	3.0 (0.1)	n/a	55.4 (3.7)	57.0 (1.1)	2.8
Sample 3	25.4 (2.0)	22.6 (0.8)	11.0	57.6 (2.3)	58.3 (1.8)	1.2
Sample 4	47.7 (3.7)	46.4 (0.6)	27	40.0 (0.6)	41.1 (0.8)	2.7
Sample 5	61.6 (1.9)	61.1 (1.5)	0.8	27.6 (0.6)	25.1 (0.9)	9.1

*The experimental values are an average of three separate measurements. **Below limit of quantification (LOQ) This table summarizes the results obtained with the NMReady-60 and shows the excellent correlation between the data collected with the benchtop NMR and HPLC. The figure beside the table shows the proton spectrum of Sample 4.

