# SmartDriveNMR

## High-Quality Data in Full Automation

Collecting the right type of NMR data with the optimal parameters tailored for the problem at hand is crucial for any analytical investigation. However, this process can be time-consuming, labor intensive and requires NMR expertise.

SmartDriveNMR is an intuitive and easy-to-use software program that uses pre-defined parameters to obtain optimal NMR results in the shortest amount of time.

Sample by sample, SmartDriveNMR will automatically decide, on-the-fly, which experiments are needed and how the parameters should be prioritized to achieve optimal results. This ensures efficient spectrometer usage and high data quality. Automatic structure verification directly on the instrument is an option.

SmartDriveNMR is the ideal tool for every chemical researcher – providing an easy to use software on one hand and maximum flexibility in defining complex research experiments on the other.

Innovation with Integrity

Software

## Key features:

- SmartDriveNMR is fully integrated in IconNMR
- All major parameter sets are supported by SmartDriveNMR
- SmartDriveNMR can be set as active or non-active for each individual sample
- Automatic concentration determination and structure verification are possible
- 2Ds are carried out using Non Uniform Sampling (NUS) in a fail-safe way

## Your benefits:

- Active decision making on-the-fly saves time
- Guaranteed high-quality spectra
- Maximum flexibility defining SmartDriveNMR makes it useful for experienced users as well as NMR beginners
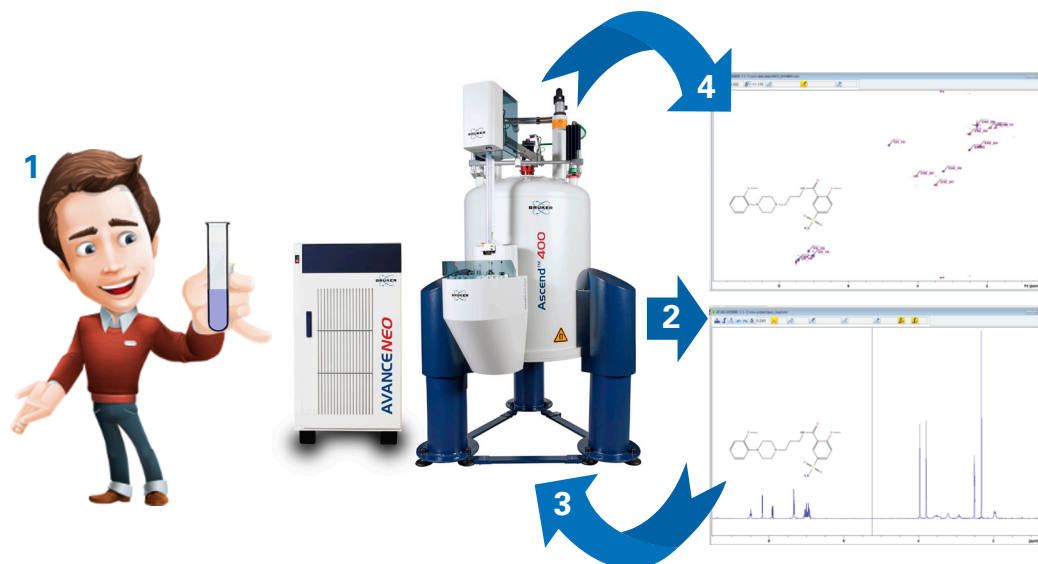


1. The user creates and submits the acquisition job using IconNMR. The description of the job mainly contains time allocations and might include structural information.

2. A fast 1D proton spectrum is collected and analyzed.

3. Depending on the analysis results concerning complexity of the problem and the signal strength, further experiments with optimal parameters can be triggered by the software.

4. Follow-up experiments are scheduled and acquired in full automation if sufficient time is available. Software delivers recommended follow-up if the allocated time is too short fto deliver high quality data.

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