Introduction

The constant need for structural analysis in pharmaceutical research and development often demands high-quality NMR data on challenging samples. The system used to generate results must be powerful, reliable, and easy-to-use.

Sample to spectrum—fully automated

The Agilent ProPulse NMR System delivers the highest quality data, providing unmatched speed and reliability from an ultra-compact footprint. The extensive experimental library in VnmrJ software coupled with robust and linear ProPulse hardware ensures the best possible data through an automated, intuitive workflow. Powerful pulse sequences such as band-selective 1D and 2D experiments, PS1D (PureShift 1D), and advanced techniques such as non-uniform sampling (NUS) and NMR in fully protonated solvents, are all standard and fully automated. Figure 1 shows the standard 1D (blue) and the PS1D (red) spectra of a 20 mmolar strychnine sample in CDCl₃.
Figure 1. The data exemplify the power of a broadband homonuclear decoupling experiment (PureShift spectrum in red) that result in simple (and easily interpreted) spectra as the basis for field independent database generation.

Simplify your workflow—and get high-quality data

Powerful VnmrJ software enables complex NMR experiments to be run easier than ever before. Compared to traditional NMR workflows, VnmrJ can increase productivity by reducing the work needed to get high-quality data.
Sample to spectrum—fully customizable

Accelerating pharmaceutical research and development requires flexibility, speed and unambiguous results, despite evolving questions and problems, and the teams working on them. Fast and truly reliable task-oriented results depend on the seamless customizability of a user-friendly, robust hardware platform. Customize default experiment protocols with the ProPulse NMR System to suit unique needs, and combine default or custom experiment protocols to generate a new study available at the click of a button, to accelerate time-to-answer (Figure 2).

The Agilent ProPulse NMR System delivers the highest quality data from all customized workflows. Unrivaled simplicity for tailoring NMR experimental setup, optimization, and data collection is the backbone of productivity.

Strength in numbers

The online Agilent Spinsights community is the best resource for all Agilent NMR, including documentation, videos, software patches, downloads, and much more. Help yourself, help each other, or ask Agilent experts directly at:

www.agilent.com/chem/spinsights