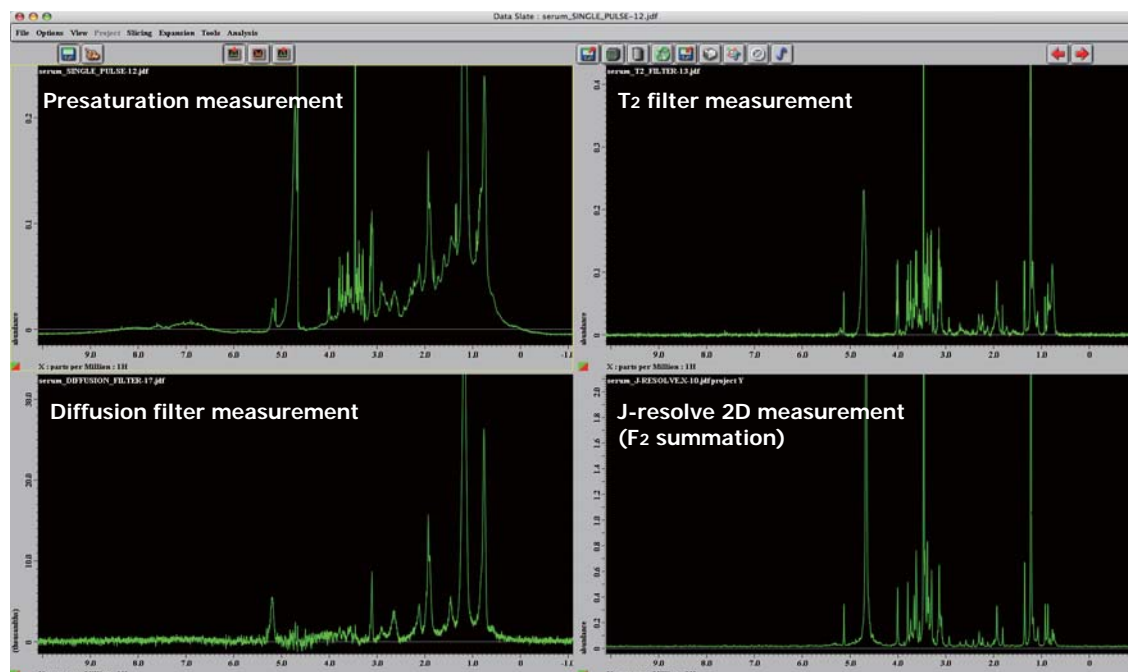


NMR Metabolome #1: Automatic sequential measurements for many samples



Results of full automatic measurements for human blood serum

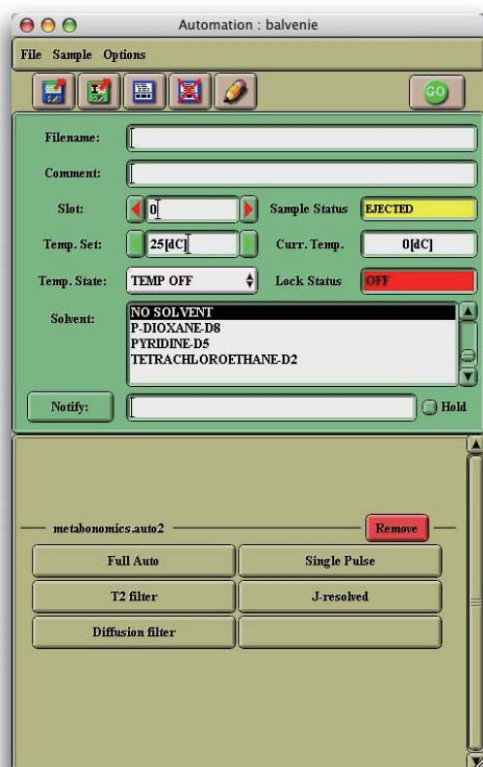
All the measurements, incorporating solvent signal suppression, are automatically set up and accomplished.

Upper left: ^1H spectrum with solvent signal suppression, where sharp signals and broad signals are overlapped.

Upper right: T₂-filter spectrum using CPMG technique, where broad signals are filtered out, leaving small molecule components.

Lower left: Diffusion-filter spectrum using BPP-LED technique, where signals having large diffusion coefficients are filtered out, leaving large molecule components.

Lower right: Summation spectrum of J-resolved 2D spectrum, where J couplings are removed, simplifying the spectrum.



Interface for full automatic measurements (Left)

Template for the above four measurements, which are specified by COMET (CONsortium for METabonomic TOxicology) project* and can also be customized on request.

* J. C. Lindon et al., Toxicology and Applied Pharmacology, 187, (2003) 137-146.