

Abstract Submitted  
for the MAR07 Meeting of  
The American Physical Society

**Ex-Situ Spectroscopic MRI** JEFFREY REIMER, UC Berkeley —  
Spectroscopic magnetic resonance imaging of a sample placed outside of both the radio frequency and the imaging gradient coils is presented. The sample is placed in a field with a permanent one-dimensional inhomogeneity. The imaging gradients used for phase encoding are designed to produce a static field that depends only on the transverse direction, uncoupling the effects associated with the single-sided nature of these coils. Two-dimensional imaging coupled with chemical shift information is obtained via the ex situ matching technique. Open-saddle geometry is used to match the static field profile for chemical shift information recovery.

Jeffrey Reimer  
UC Berkeley

Date submitted: 03 Dec 2006

Electronic form version 1.4