Supporting Information

Pure Shift Approach for Fast and Accurate Extraction of Heteronuclear Couplings

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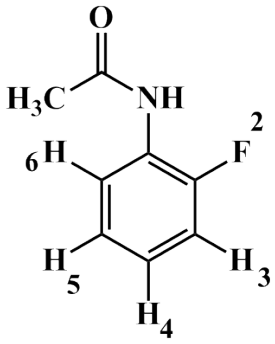
(a) The ^{1}H NMR spectrum of 2-fluroacetanilide in $CDCl_3$. (b) Pure shift spectrum of the same molecule depicting only $^{n}J_{HF}$ couplings. The measured coupling values (doublet separations are reported in Hz) are given at the top of each chemically non-equivalent proton.



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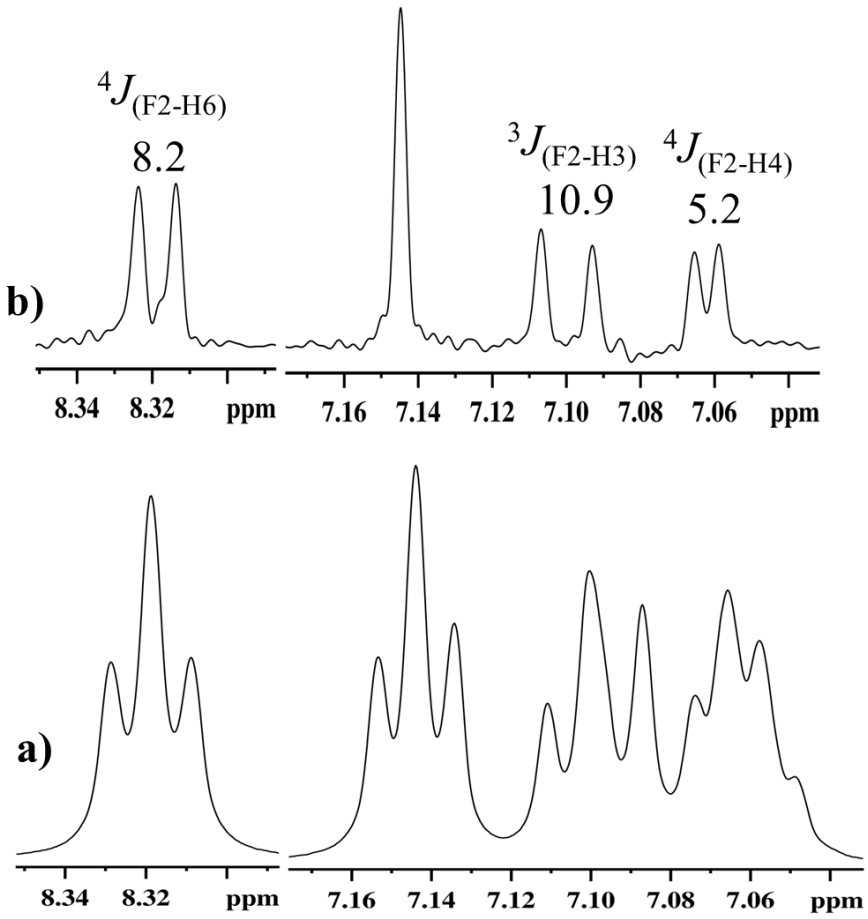
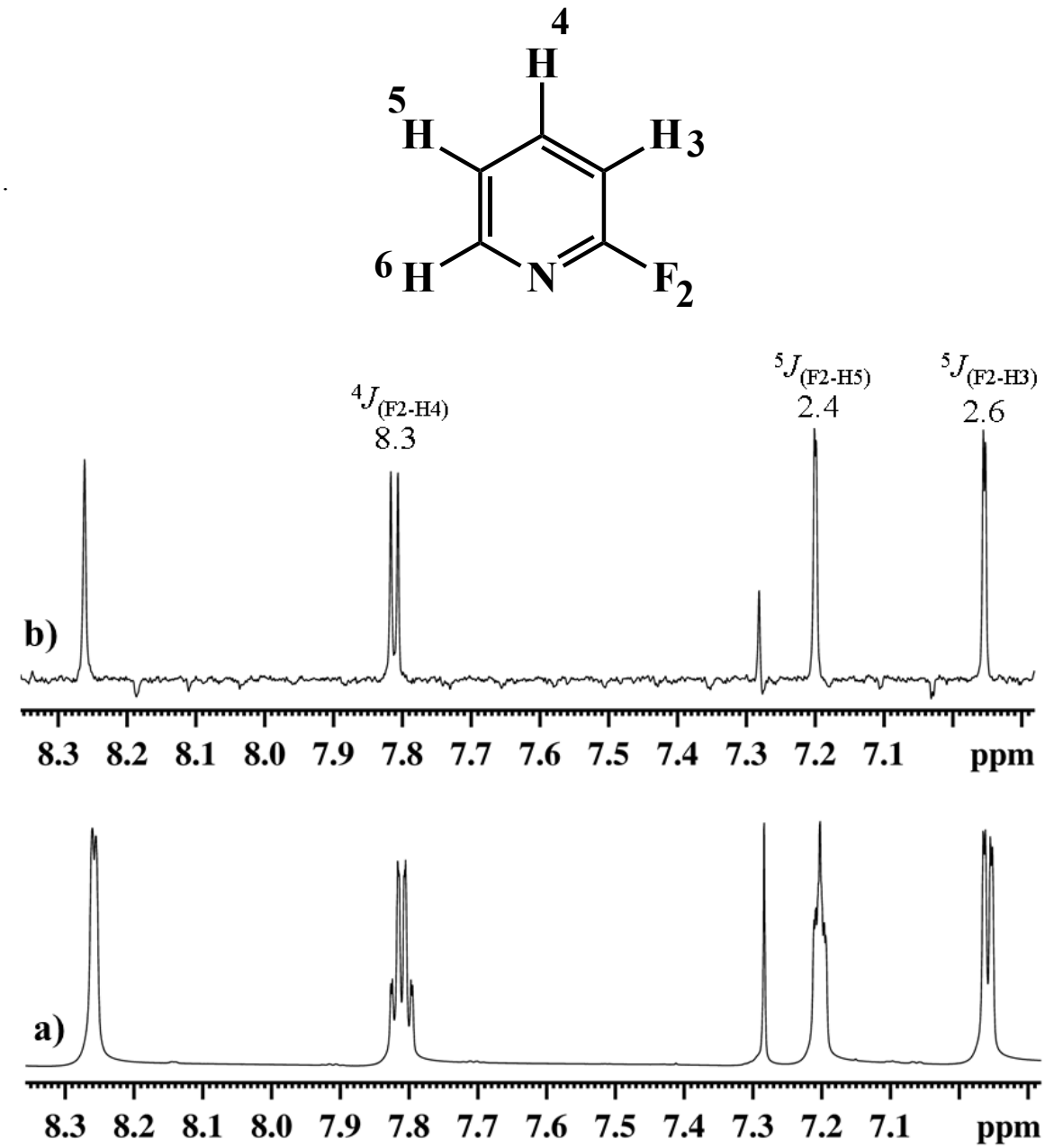


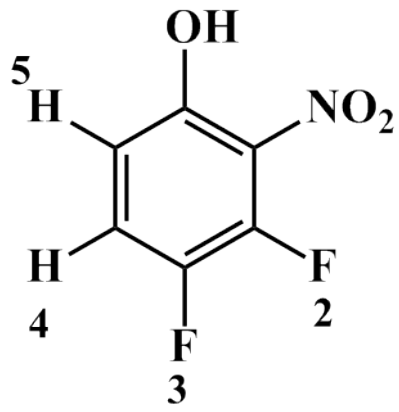
S1

(a) The ^{1}H NMR spectrum of 2-fluoropyridine in $CDCl_3$; (b) Pure shift spectrum of the same molecule depicting only $^{n}J_{HF}$ couplings. The measured coupling values (doublet separations in Hz) are given at the top of each chemically non-equivalent proton.



S2

(a) The ^{1}H NMR spectrum of 2,3-difluoro-nitrophenol in $CDCl_3$; (b) Pure shift spectrum of the same molecule depicting only $^{n}J_{HF}$ couplings. The measured coupling values (doublet separations in Hz) are given at the top of each chemically non-equivalent proton.



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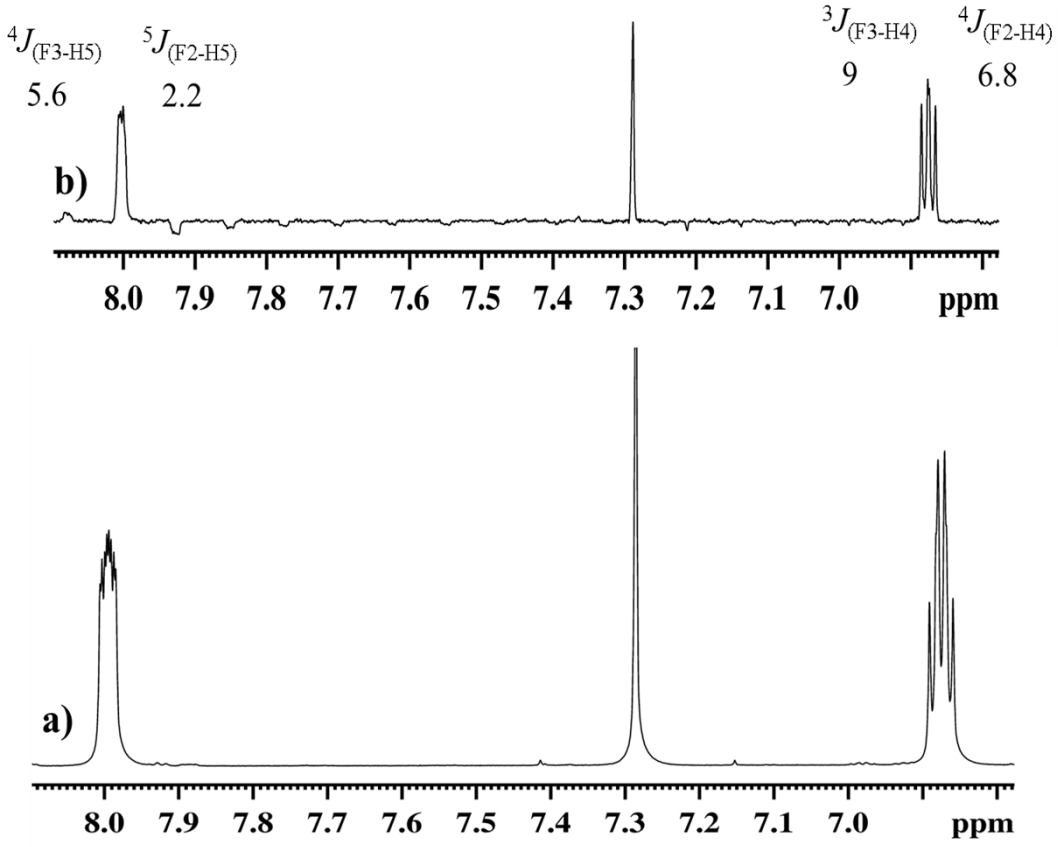

S3