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Supporting Information

Shantz and Lobo

Figure 1S. Static ^2H NMR spectra of (a) d_9 -SSZ-23 and (b) d_{12} -ZSM-12, and (c) neat d_{12} -4,4'-trimethylenebis(1,1'-dimethylpiperidinium) diiodide. One thousand scans were acquired for (a) and (c), and 10,000 scans were acquired for (b).

Figure 2S. ^2H - $\{^1\text{H}\}$ MAS spectra of (a) d_9 -TMC6 - NON and (b) d_9 -SSZ-23. 64 scans were acquired for both spectra.

Figure 3S. (a) ^2H MAS spectra and (b,c) ^2H - $\{^1\text{H}\}$ CPMAS of d_9 -TMC5 nonasil synthesized in D_2O . Contact times of 200 μs and 400 μs were used in (b) and (c) respectively.

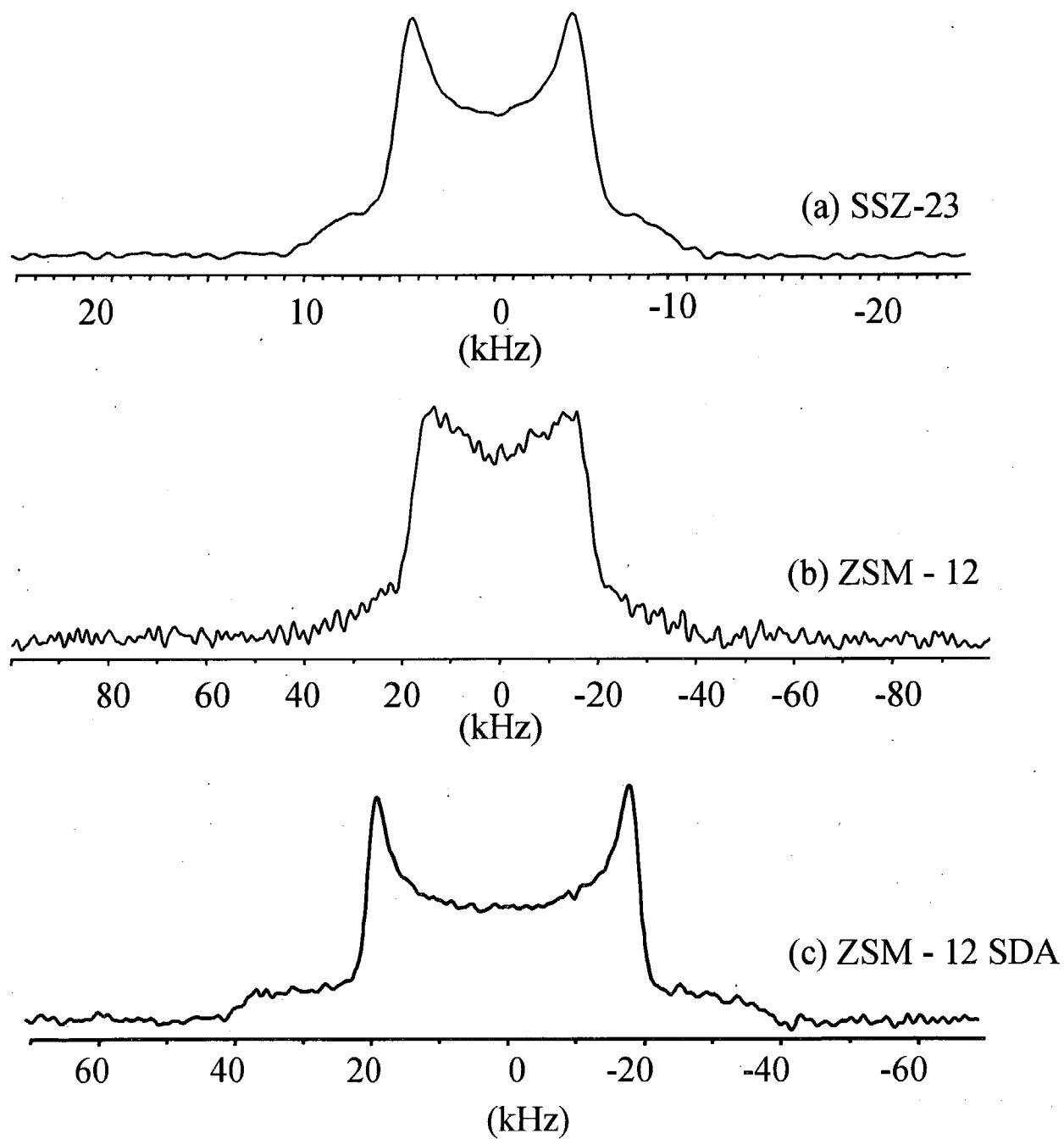


Figure 15

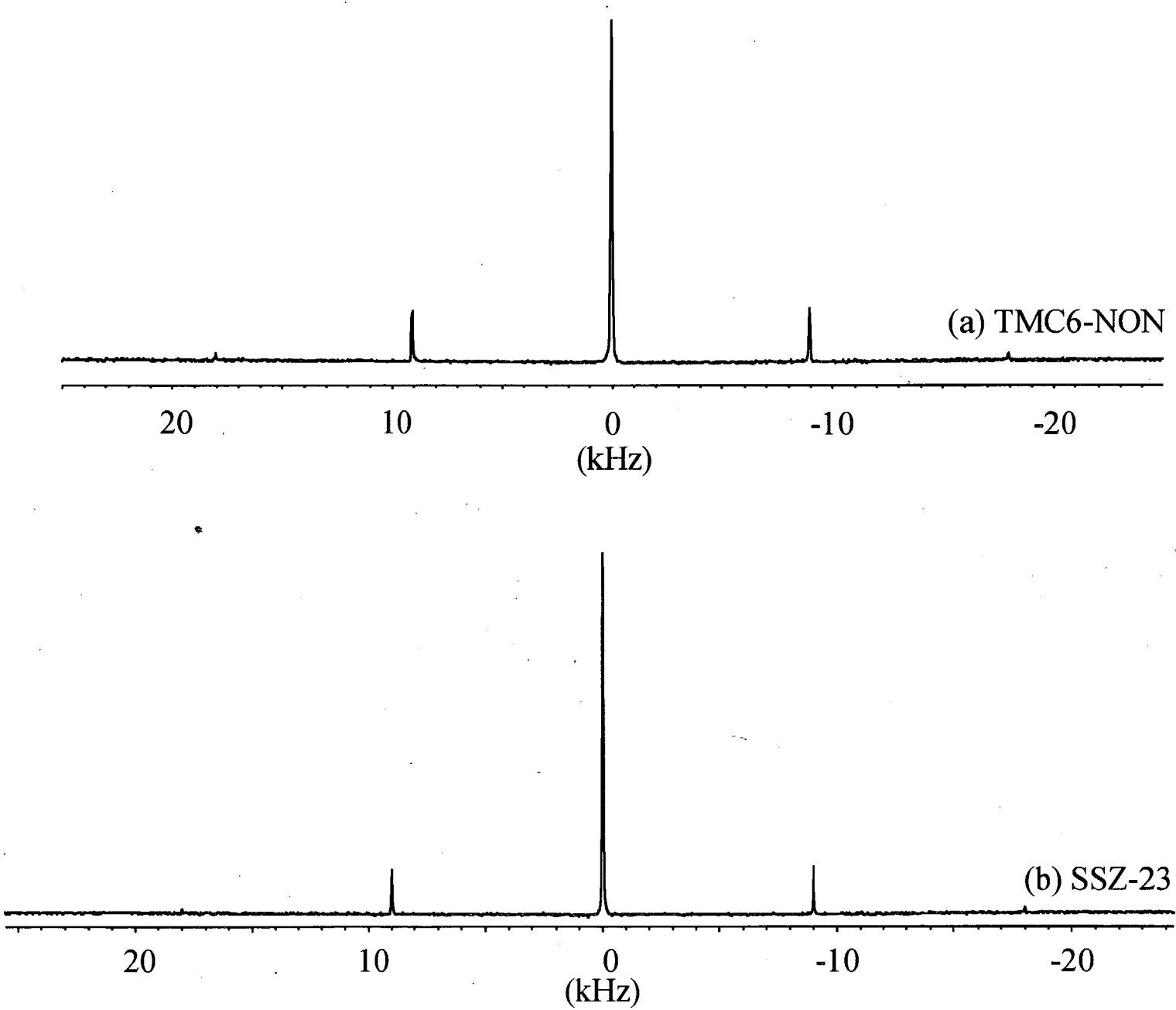


Figure 25

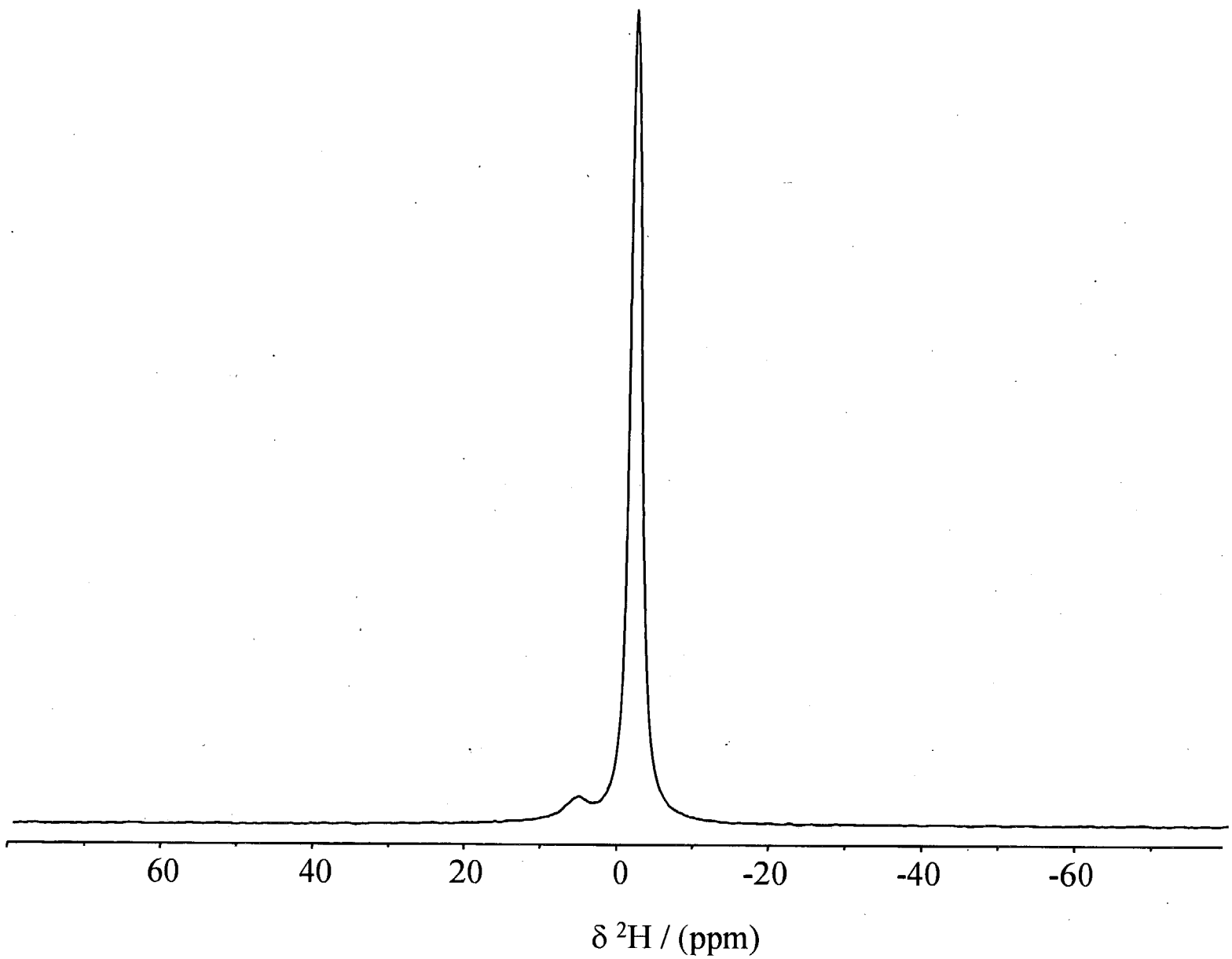


Figure S5 (a)

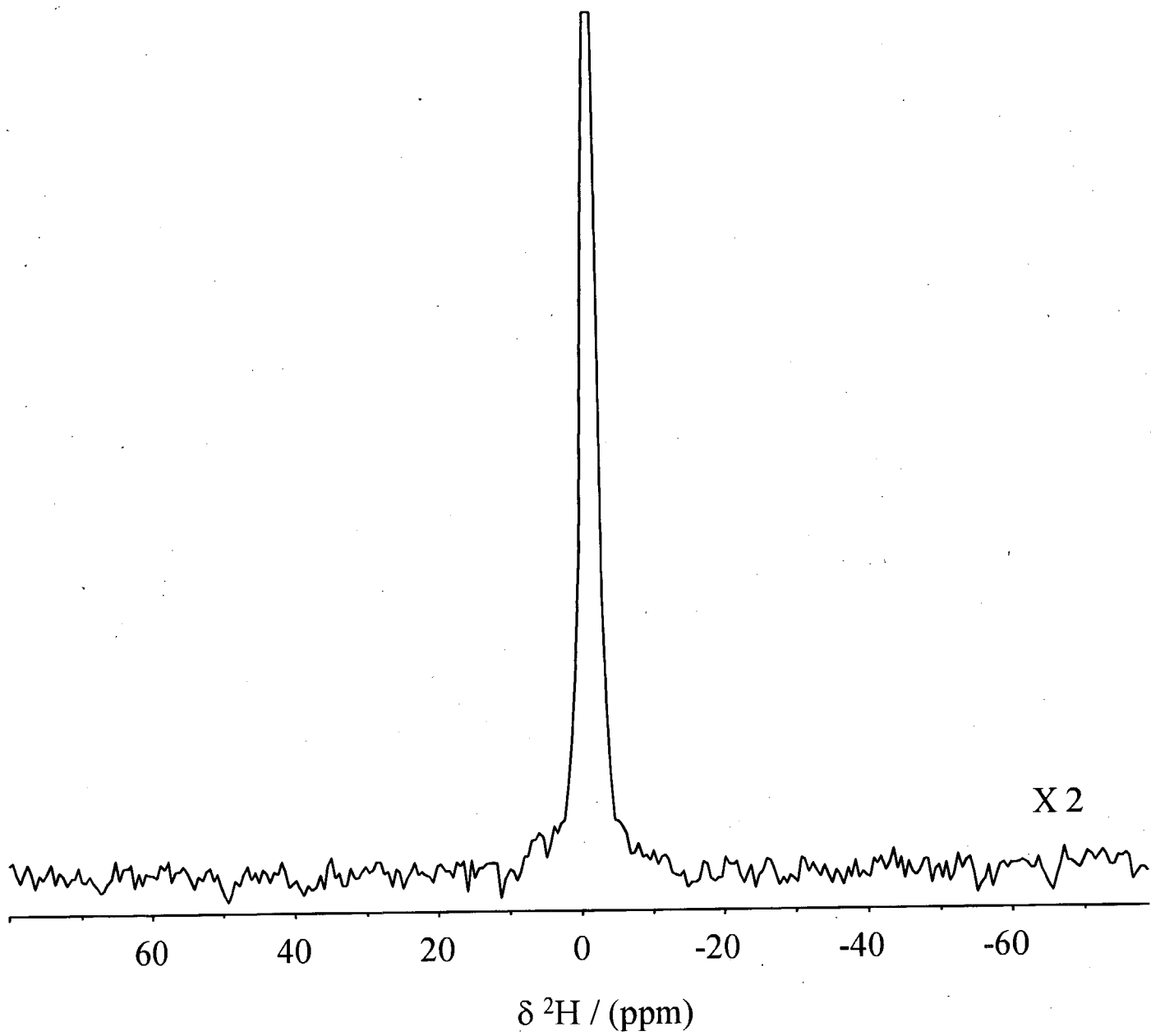


Figure S5 (b)

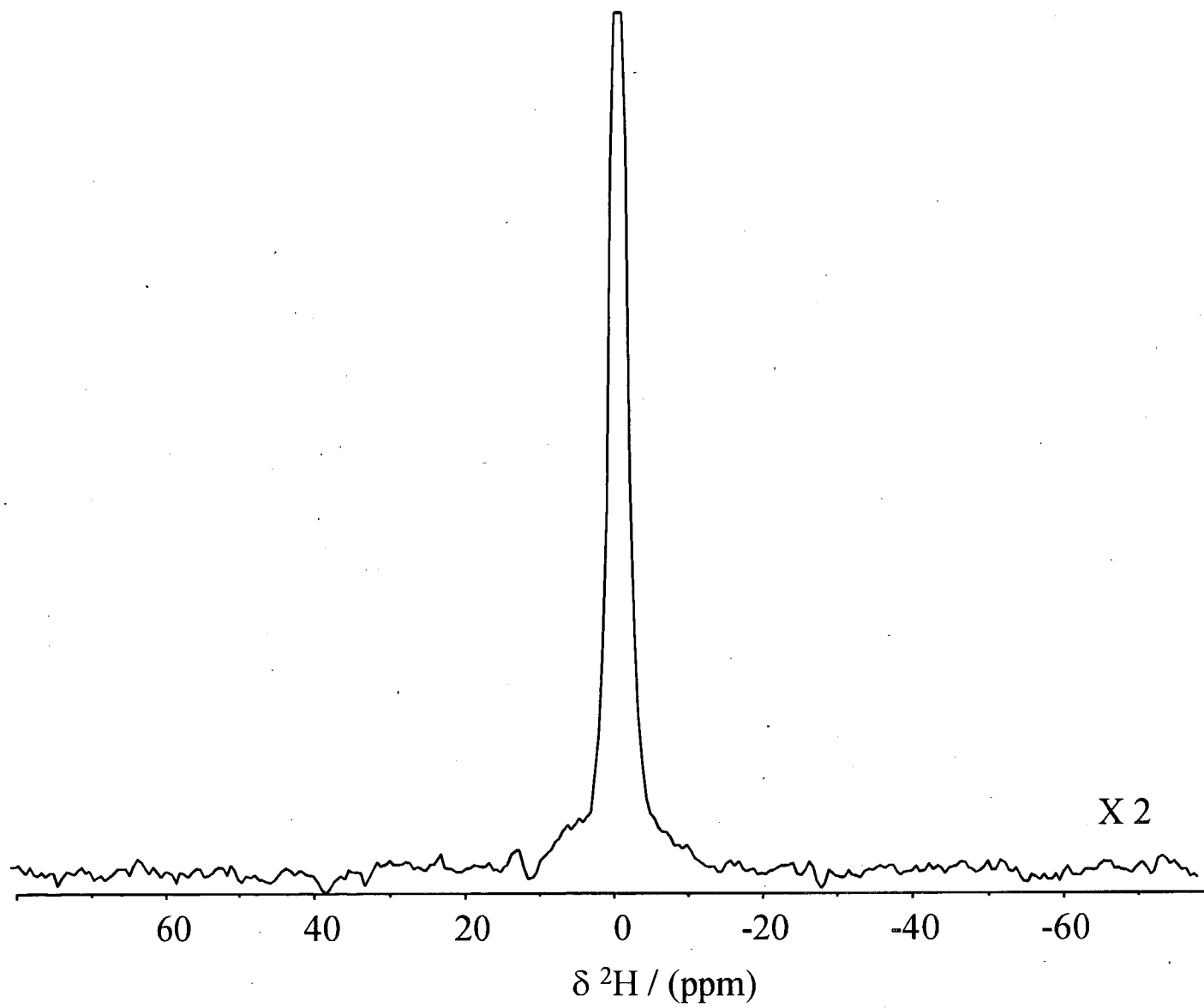


Figure S5 (c)