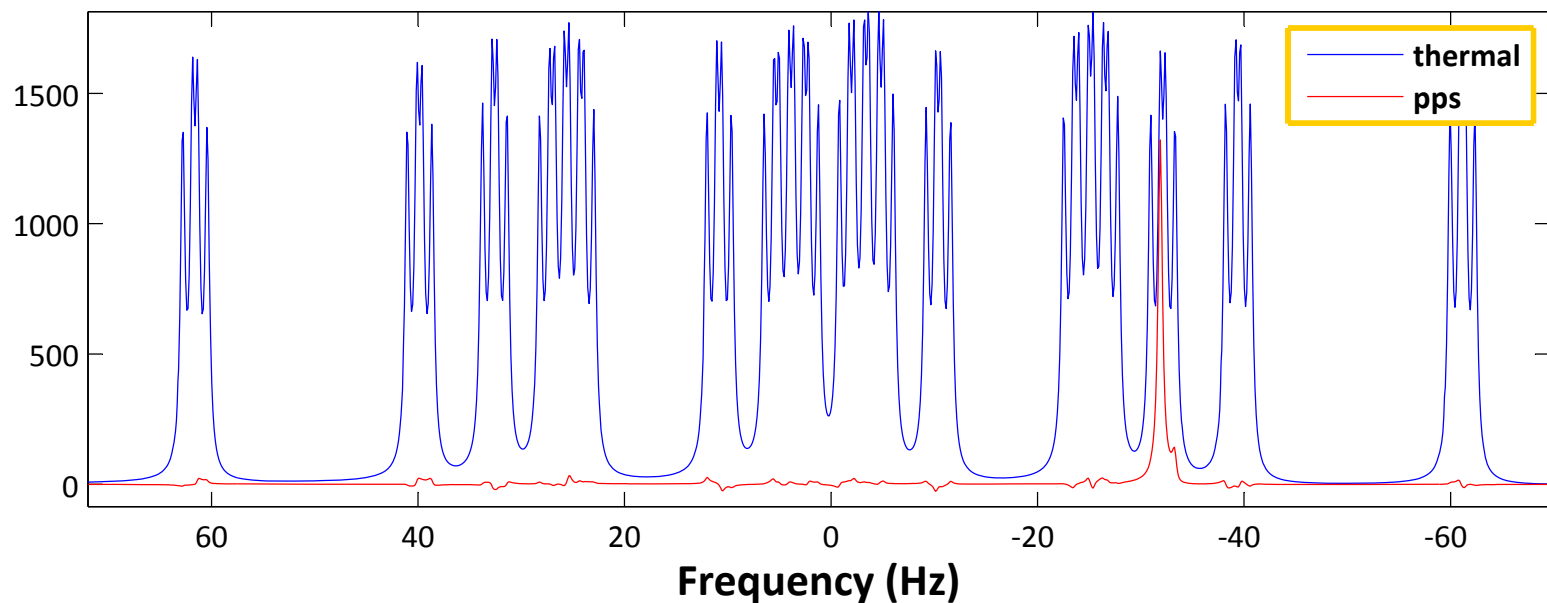


1. Encoding: Use compiler to get XXXXXXX from IIIIIIZ.  
Time: 54ms Final: 0.91XXXXXXX and minor terms
2. PhaseCycling: By pulse compiler to get the 7 coherence.  
0.86 of theoretical 7 coherence
3. Decoding: Write one shape pulse (42.312ms) to implement the network.  
Final State: 0.966 |011001X> and minor terms

Overall loss of signal:  $1 - 0.86 * 0.966 = 0.1692$

**C7:11928.2200Hz**



Some possible reasons:

- (a) Phase Cycling in experiment. 7 coherence cannot be observed, so it is hard to examine whether PC is good. But ZXZZZZZ in experiment is very good.
- (b) The shape pulse of decoding needs correction. We have done pulsefixing. The experimental spectrum of applying decoding pulse on rho\_th is very different from the simulated spectrum. (May be most important).
- (c) Changes of Hamiltonian. Chemical shifts varied about 10Hz compared to the spectrum which is used to obtain the shape files.

