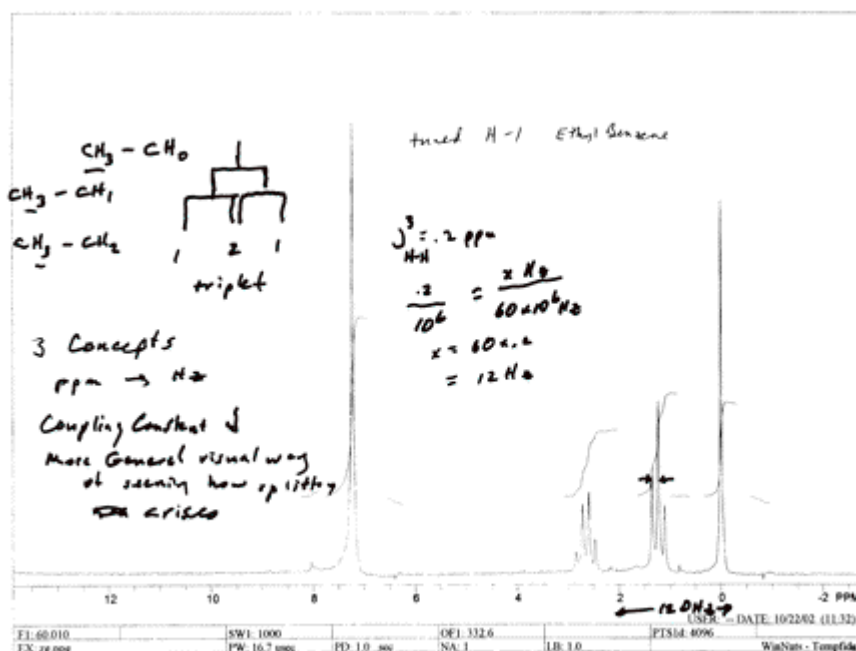
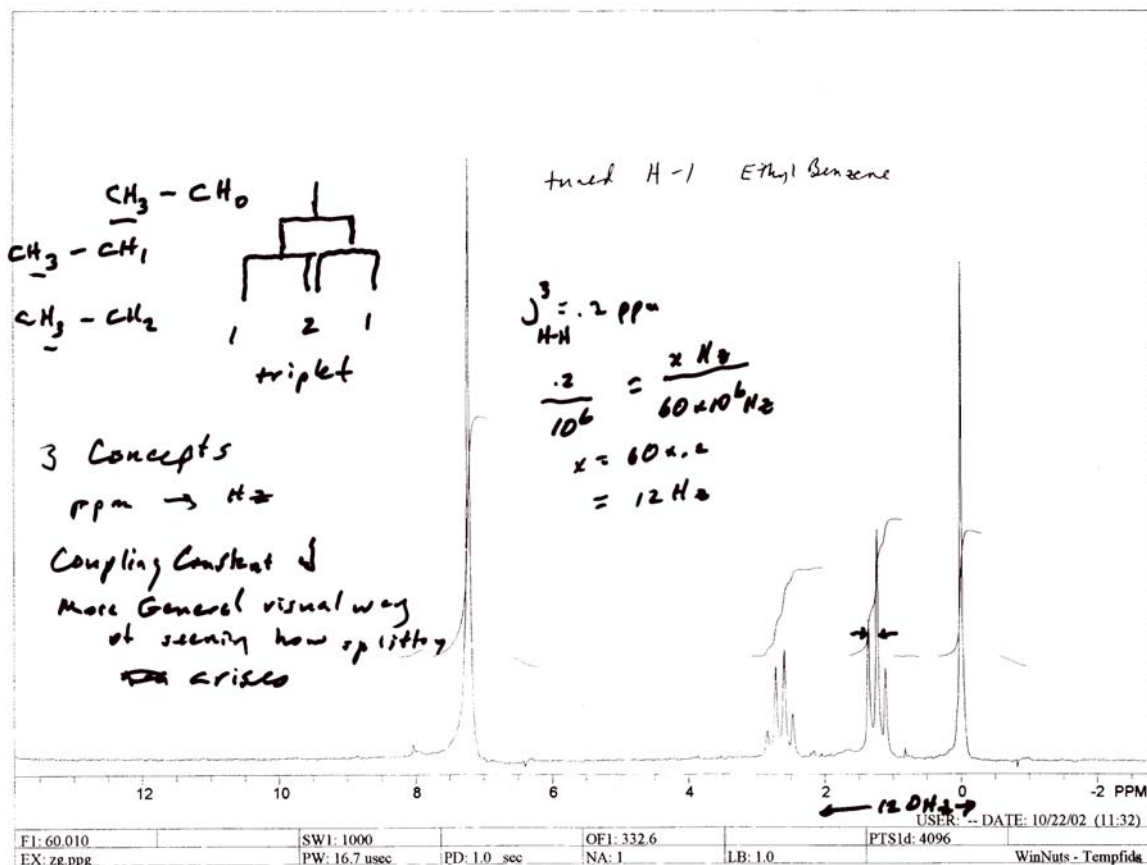


Picture illustrating the H-H coupling in ethyl benzene and the calculation of the 3 bond coupling constant between the methyl group and the methylene group, the conversion of ppm to Hz and the use of Pascal's triangle to get the intensity ratios of multiplet peaks.

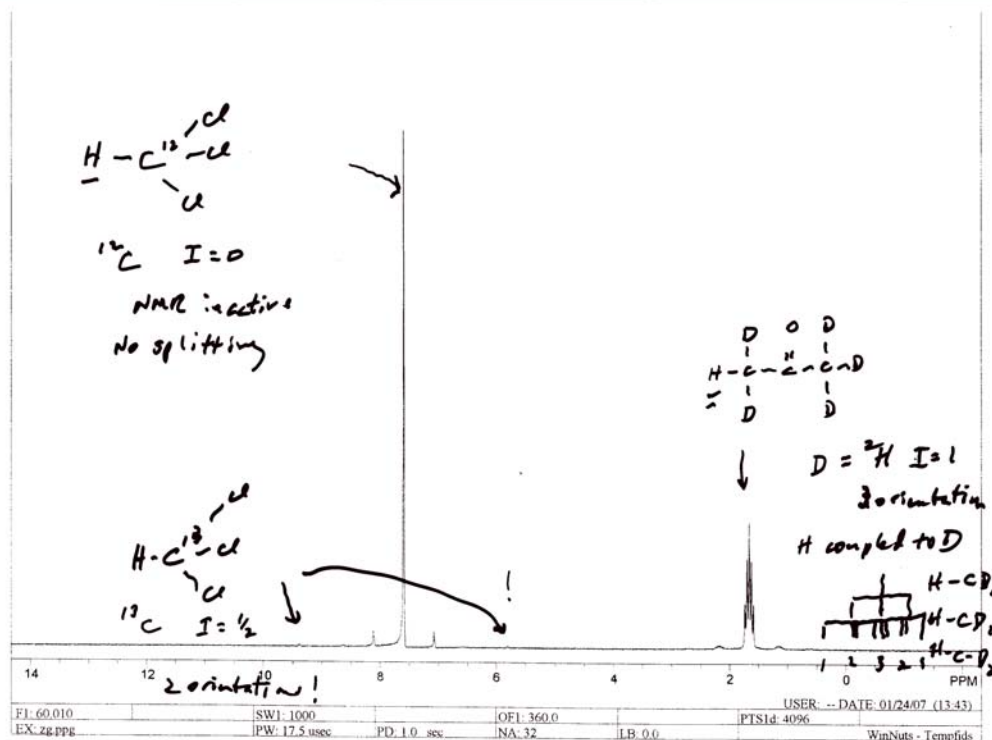


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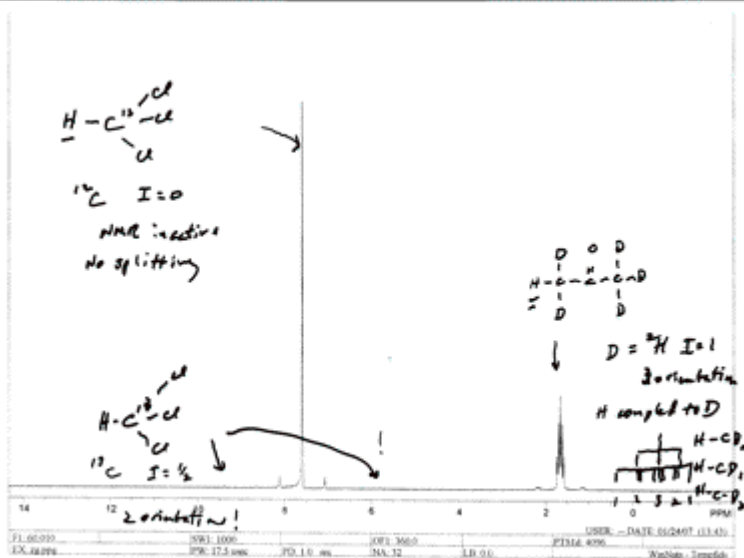
<!--[endif]-->

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Picture of the spectrum of the H spectrum of chloroform in dueterated acetone and labeling peaks. Splitting of the CH peak in acetone by 2 bond coupling to D. D has spin of 1 so has three states and splits neighboring nuclei into three peaks. C-12 chloroform peaks, C-13 peaks and splitting side bands are identified.



<!--[if !vml]-->



<!--[endif]-->

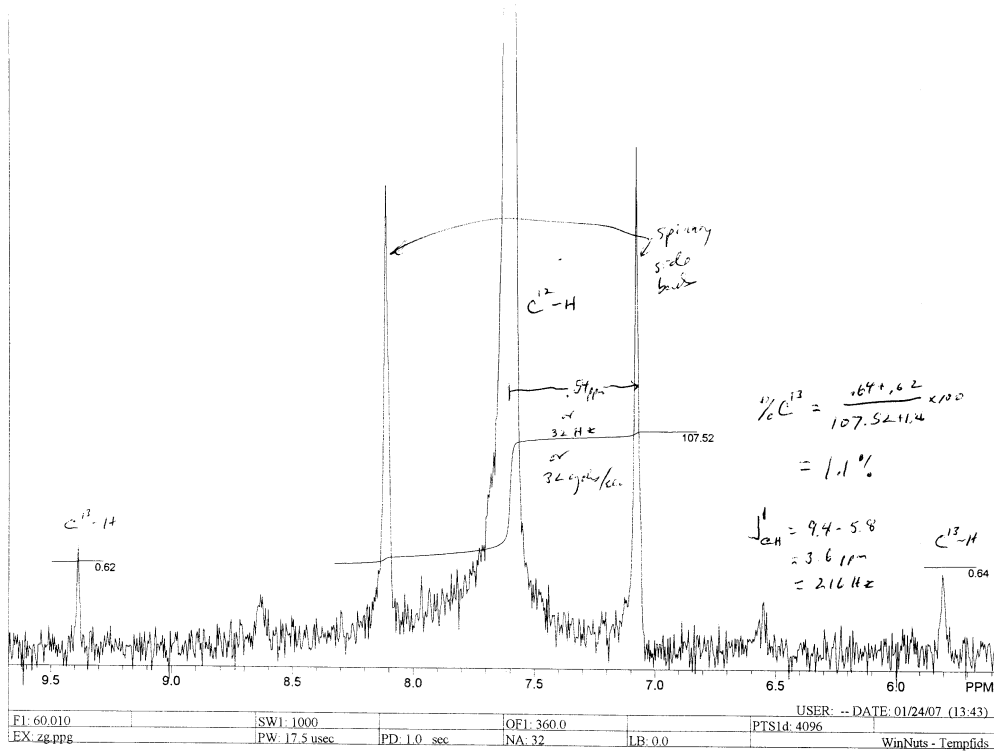
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<!--[if !supportEmptyParas]--> <!--[endif]-->

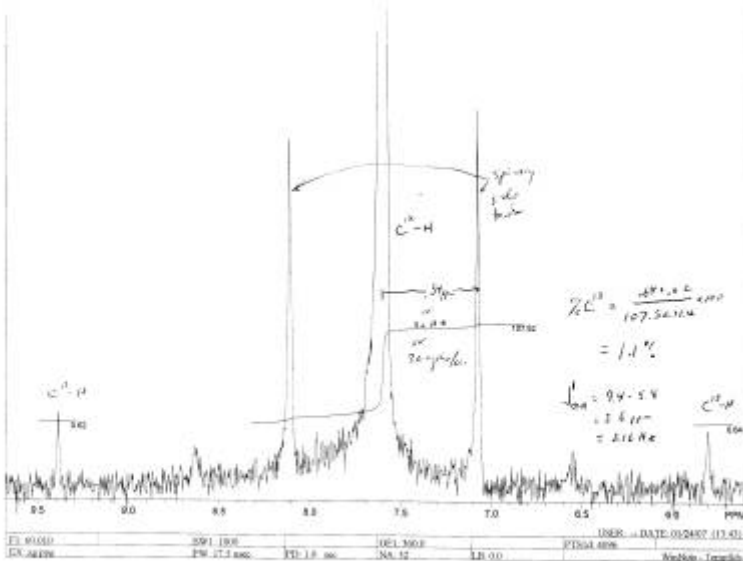
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The chloroform peaks are magnified to show integration of C-13 peaks to get %C-13 atomic abundance in natural carbon.

<!--[if !supportEmptyParas]--> <!--[endif]-->
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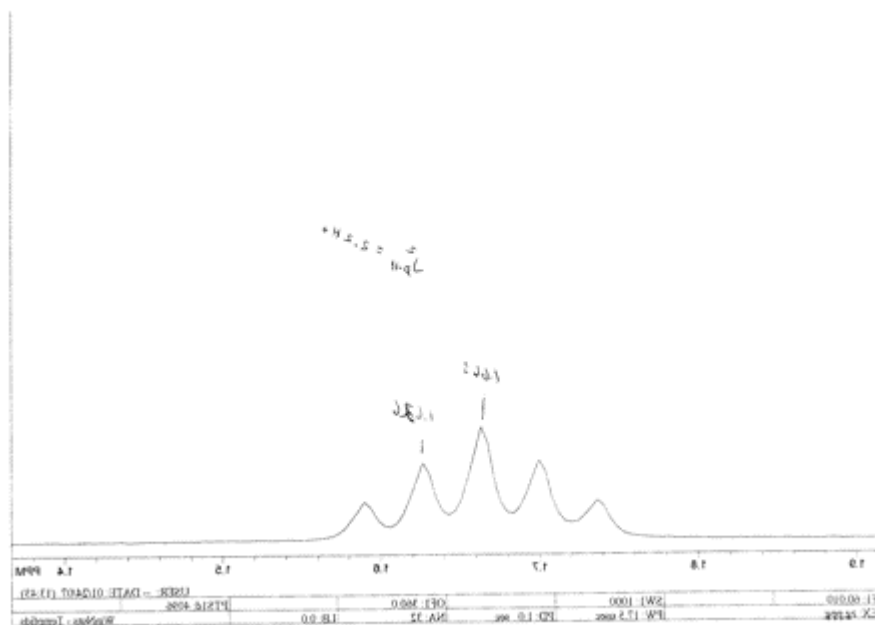
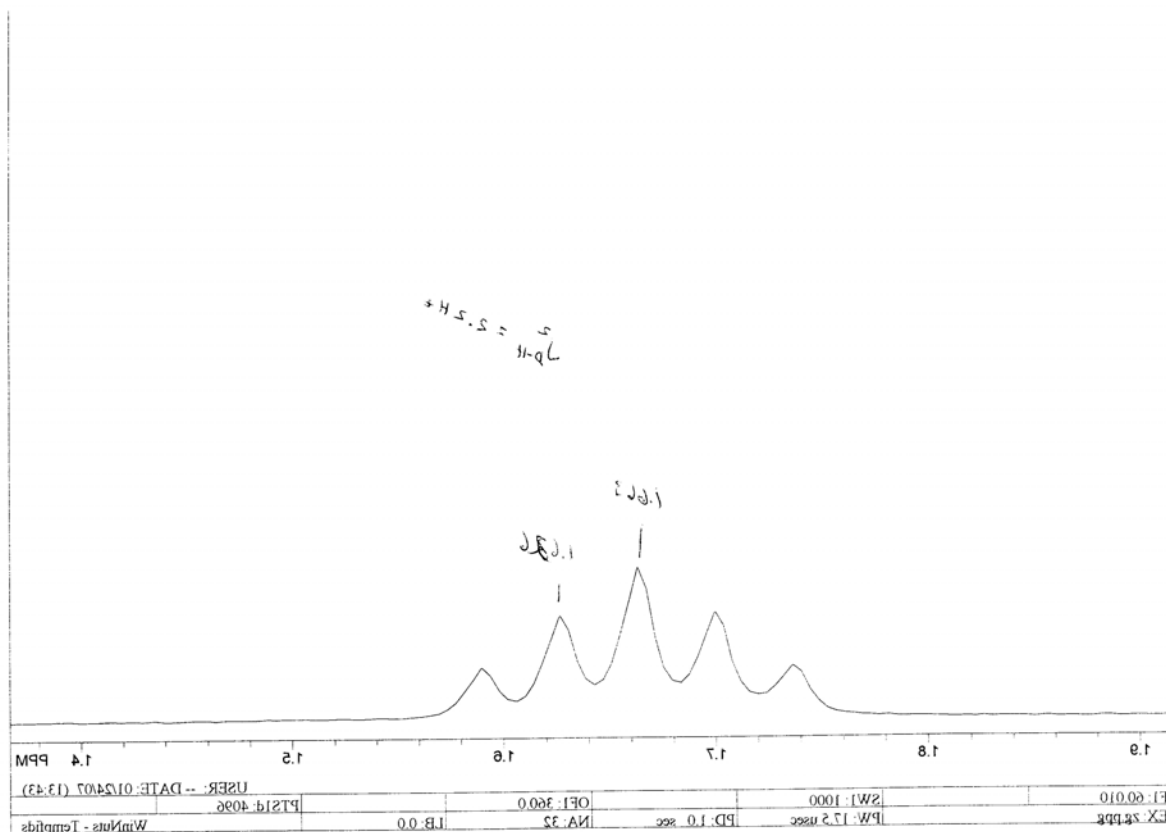


<!--[if !vml]-->



<!--[endif]-->

The acetone CH peak (coupled to 2 D in a 1:2:3:2:1 pentet) is expanded to get the 2 bond H-D coupling constant.



<!--[if !vml]-->

<!--[endif]-

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