

**A shortened synthesis of optically pure tricarbonyl(methyl 6-oxo-2,4-hexadienoate)iron leading to improved yield**

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*Supporting Information*

<sup>1</sup> H NMR spectrum of <b>8</b> (CDCl <sub>3</sub> )	S2
<sup>1</sup> H NMR spectrum of <b>9</b> (CDCl <sub>3</sub> )	S3
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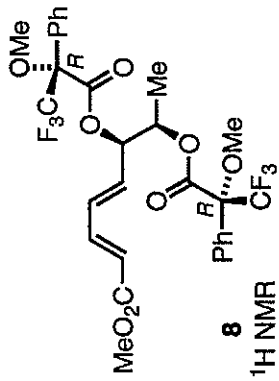
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7.387  
7.371  
7.270

3.770

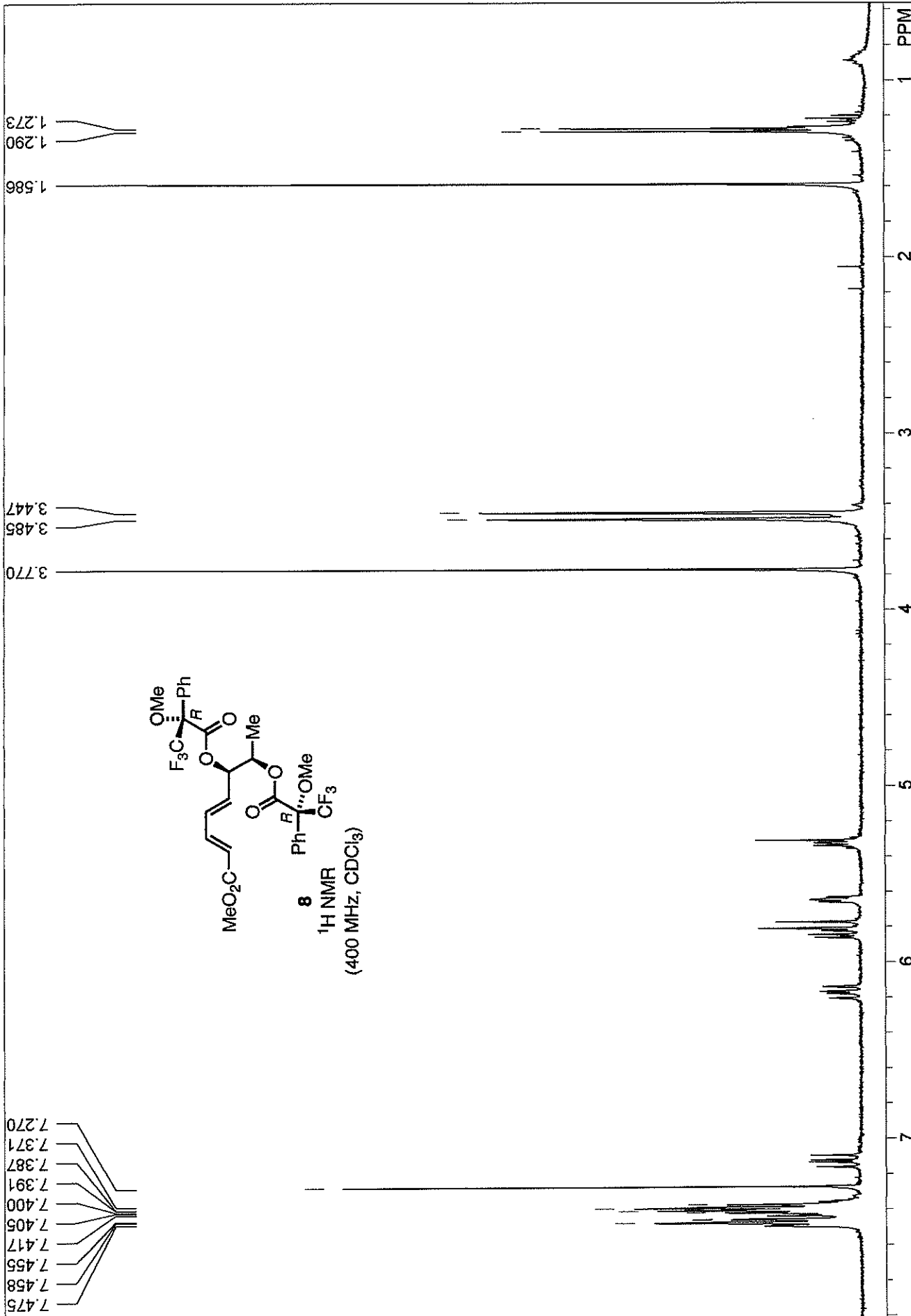
3.485  
3.447

1.586

1.290  
1.273



<sup>1</sup>H NMR  
(400 MHz, CDCl<sub>3</sub>)



STANDARD 1H OBSERVE - profile

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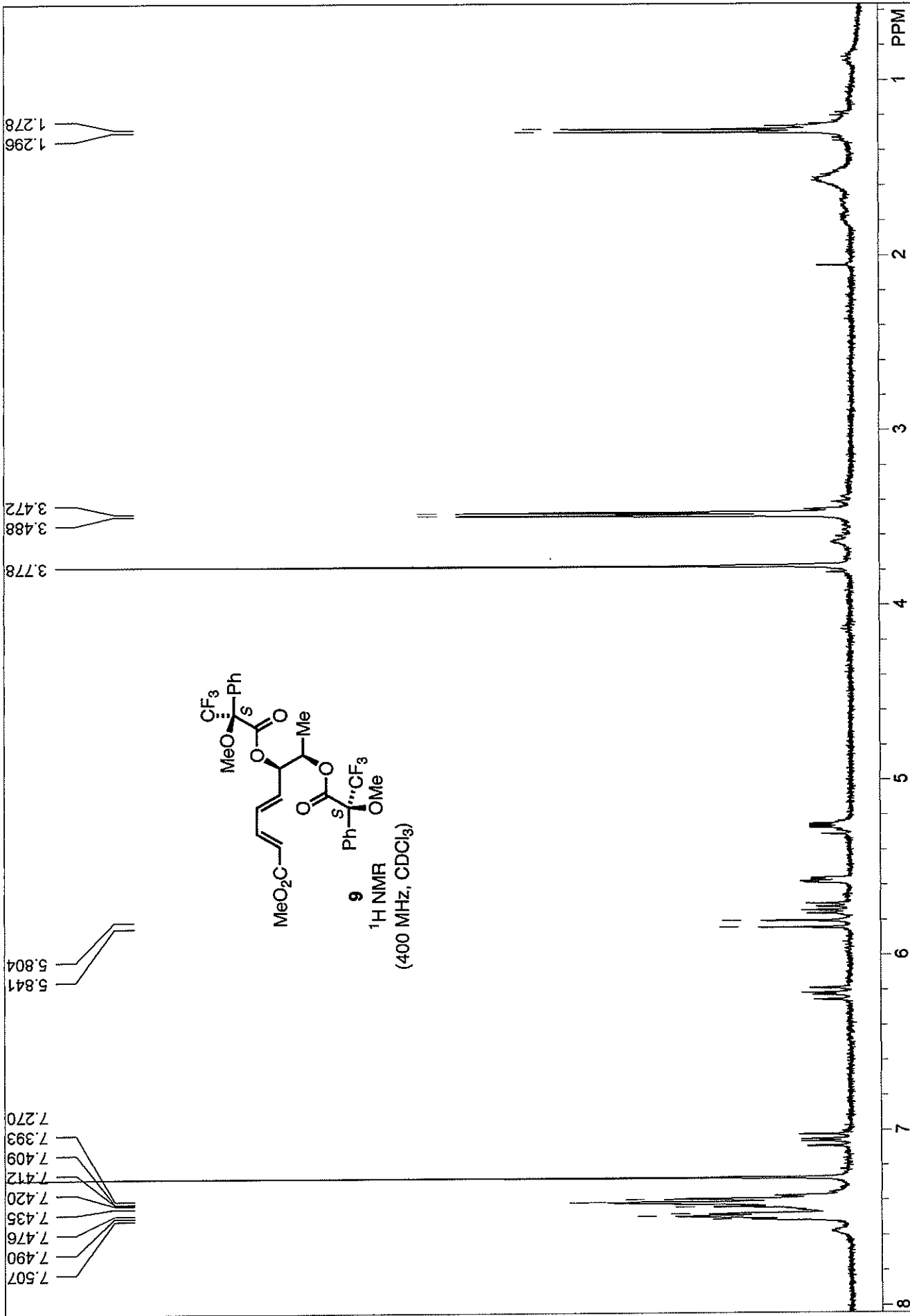
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OF1: 3430.1 NA: 8

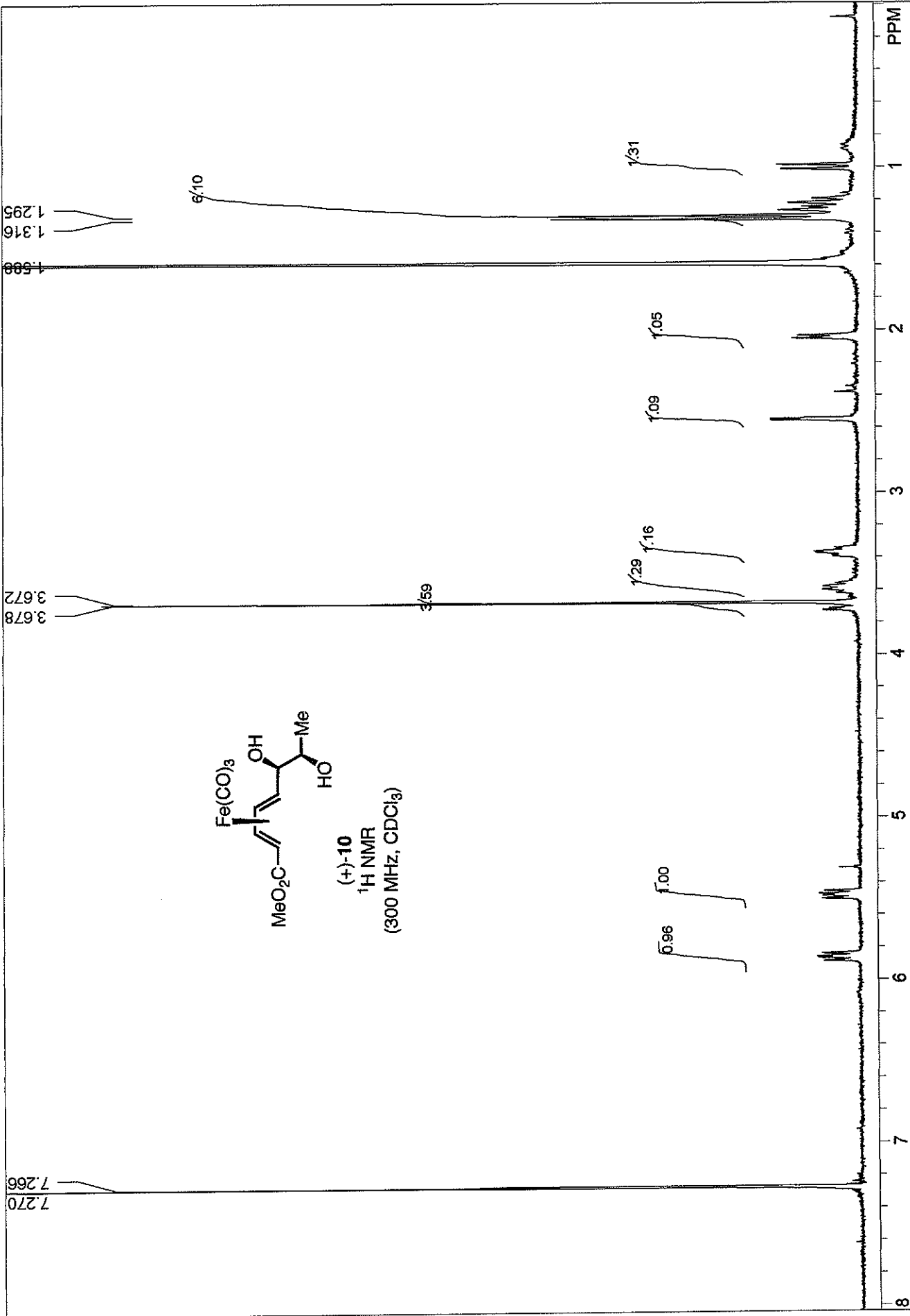
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PTS1d: 13132 . 16384

USER: -- DATE: Sep 14 2007  
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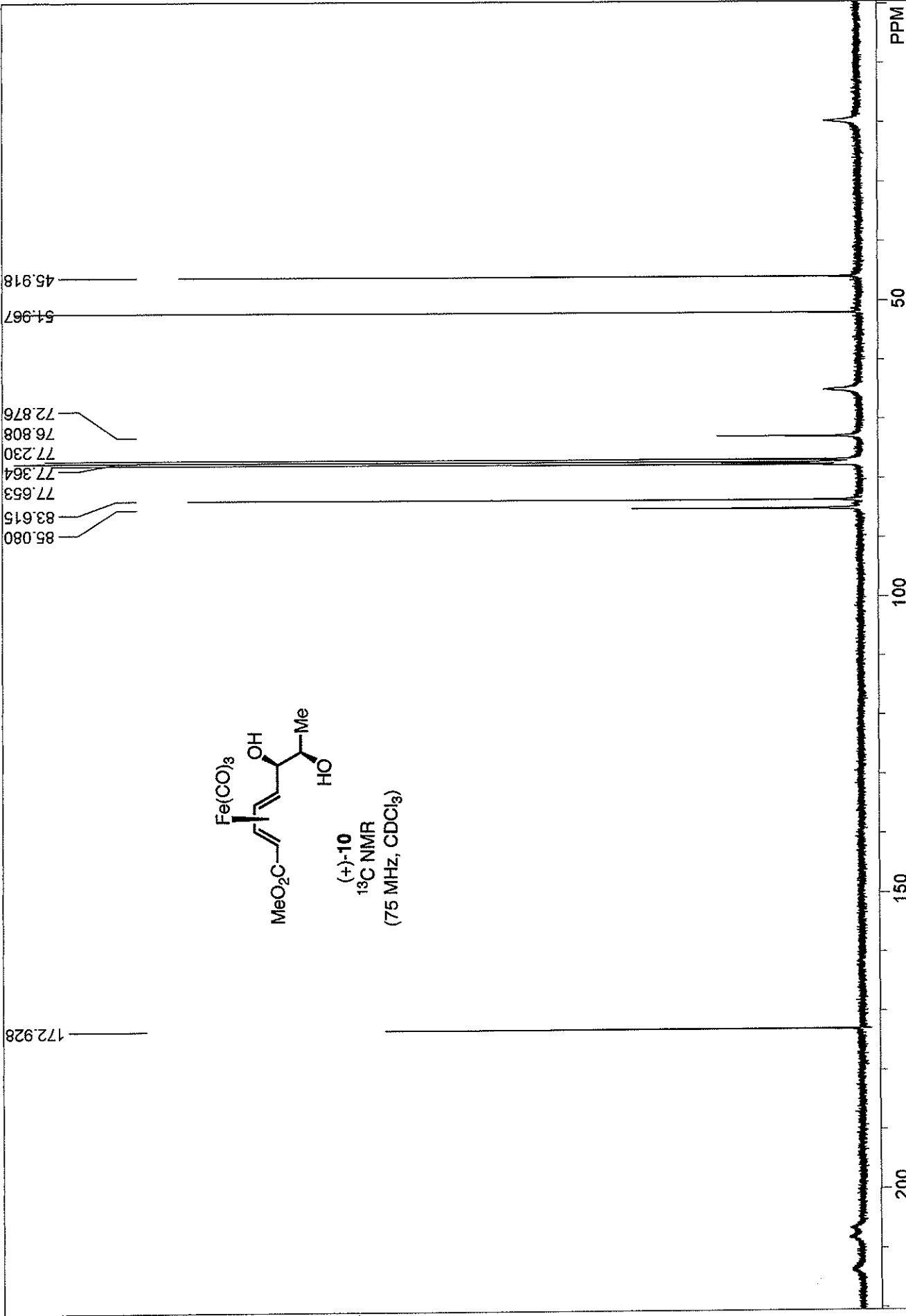


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	PW: 7.7 us	PD: 1.0 sec	LB: 0.0

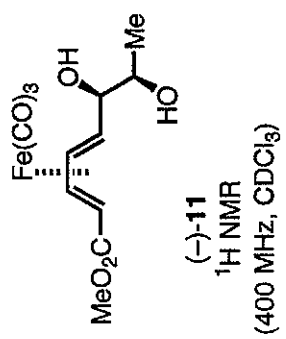
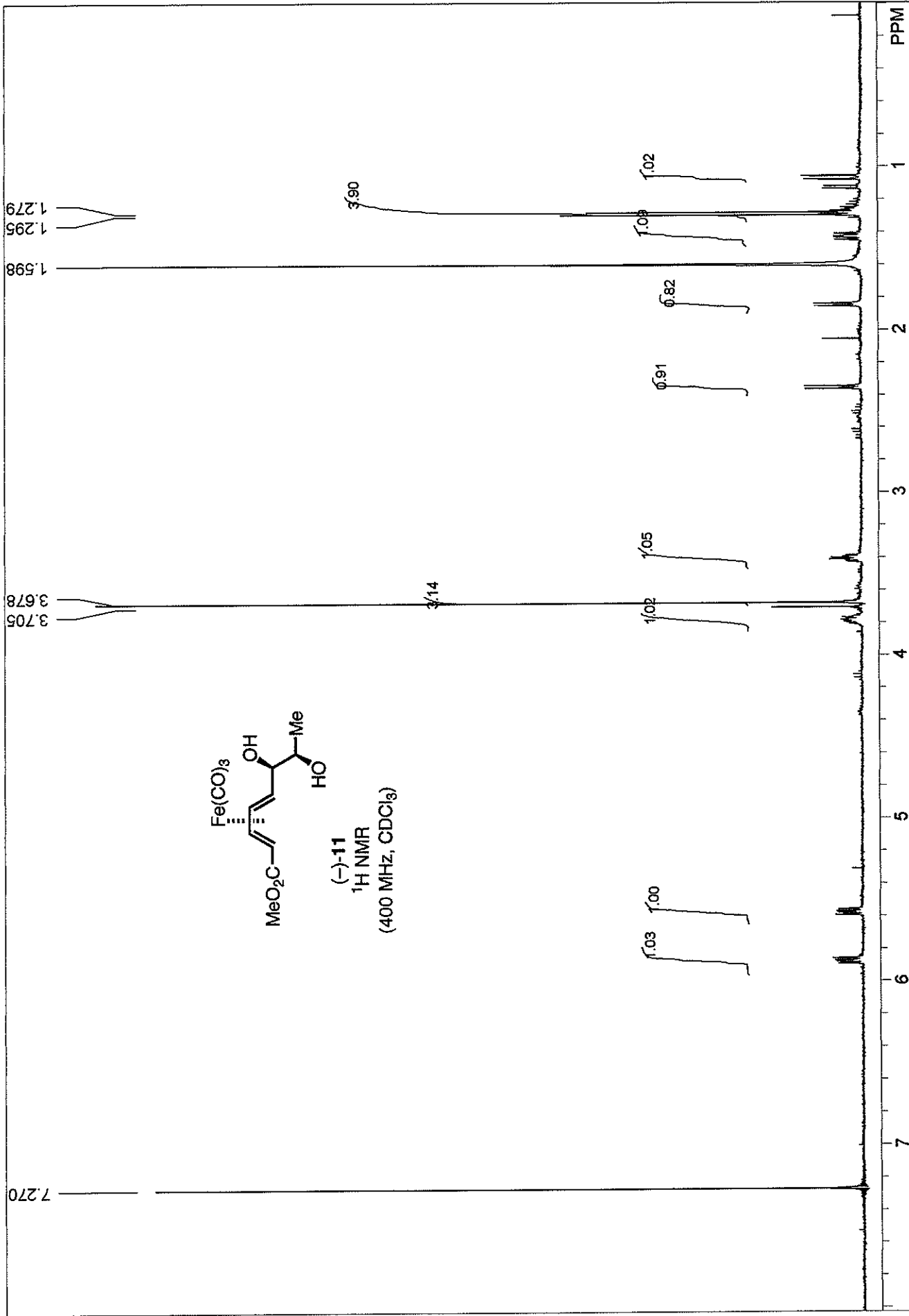


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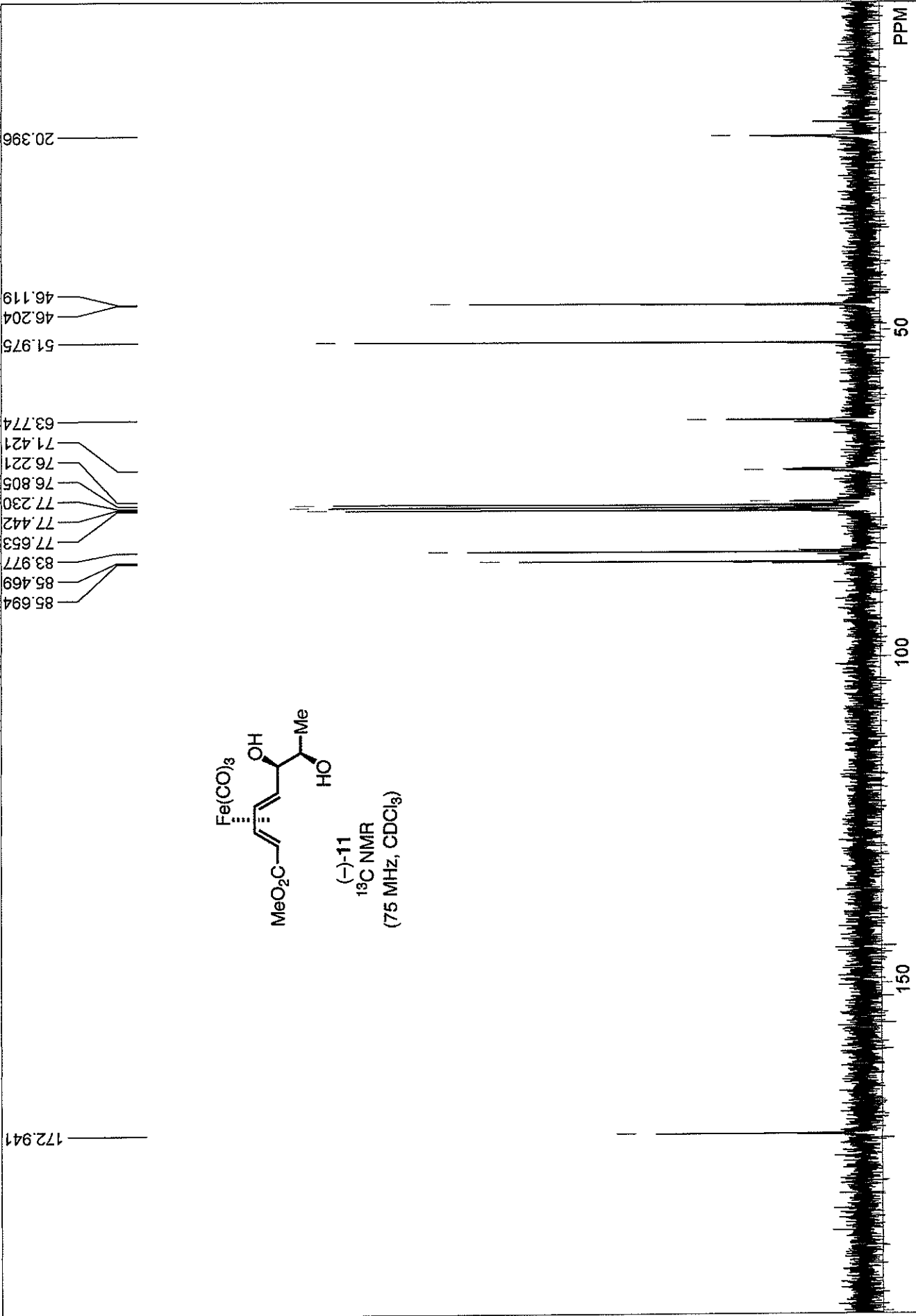
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13C OBSERVE: blank line		USER: -- DATE: Jul 18 2007	
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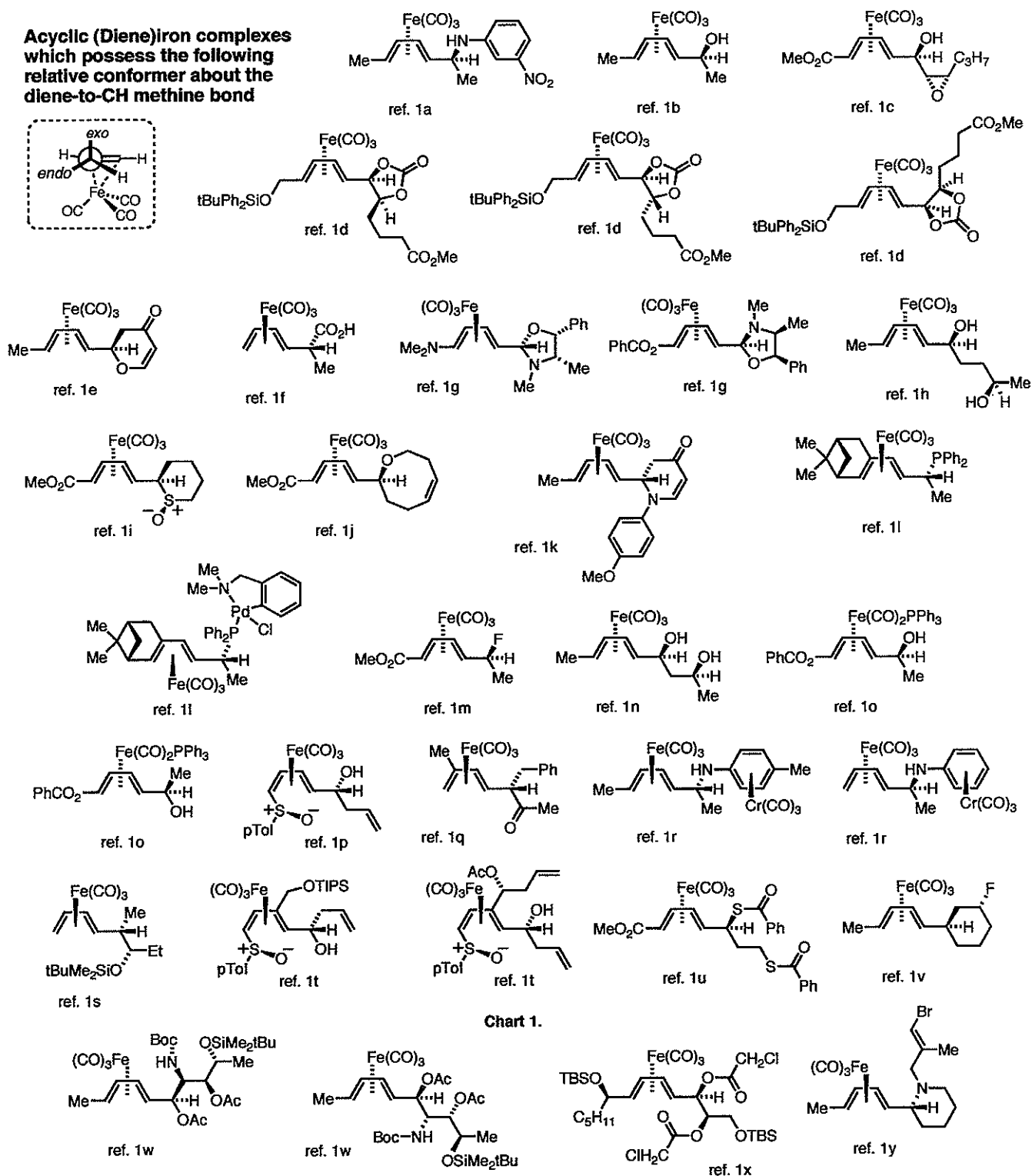
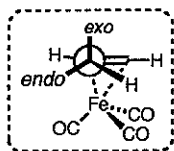


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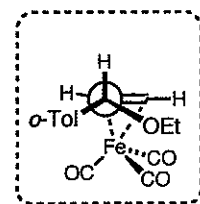
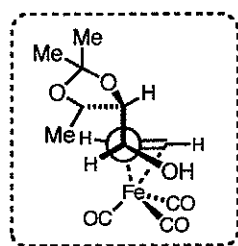
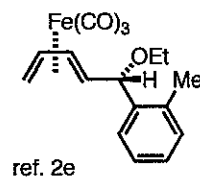
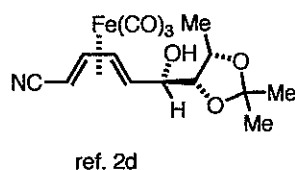
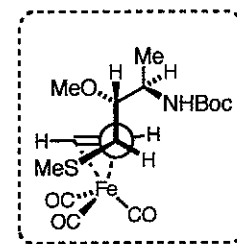
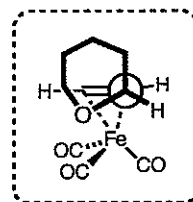
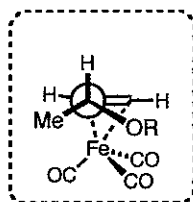
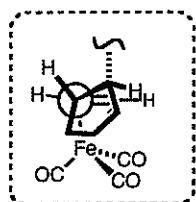
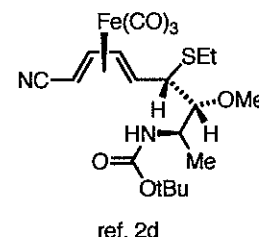
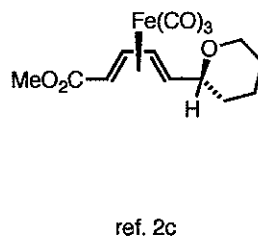
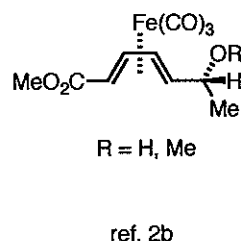
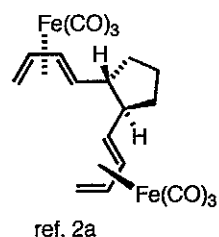
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F1: 75.477	F2: 300.135	PTSId: 34246 65536
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	NA: 400	
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**Acyclic (Diene)iron complexes which possess the following relative conformer about the diene-to-CH methine bond**



**Chart 1.** The complexes depicted above all evidence a crystal structure in which the C-H methine hydrogen is pointed toward a basal Fe-CO ligand.





**Chart 2.** The complexes depicted above evidence a crystal structure with a less common conformer about the (diene)iron-to-CH methine bond.

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