Answer on Question #79464 – Chemistry – Other

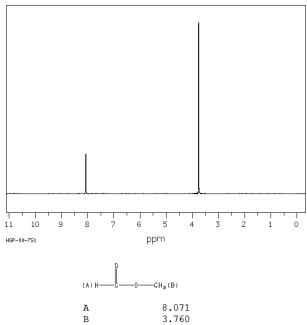
Predict the appearance of the high-resolution 13C spectrum of (proton not decoupled)

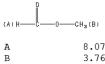
- (a) methyl formate.
- (b) acetaldehyde.
- (c) acetone.

Note that ${}^{13}\text{C-}{}^{1}\text{H}$ coupling constants are generally in the range of 100 to 200 Hz.

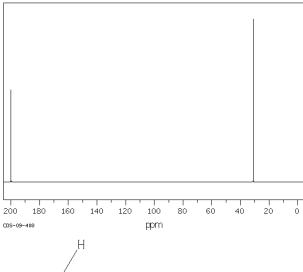
Solution:

(a) methyl formate.





(b) acetaldehyde.



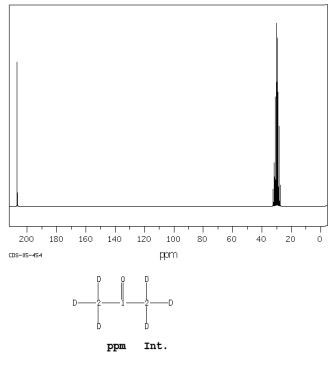


199.93

30.89 1000

ppm	Int.	Assign
199.93	566	1

(c) acetone.



206.80 787 1
32.29 93 1) 2
31.52 235 1) 2
30.78 596 1) 2
30.00 1000 1) 2
29.22 918 1) 2
28.44 437 1) 2
27.66 115 1) 2

Answer provided by www.AssignmentExpert.com