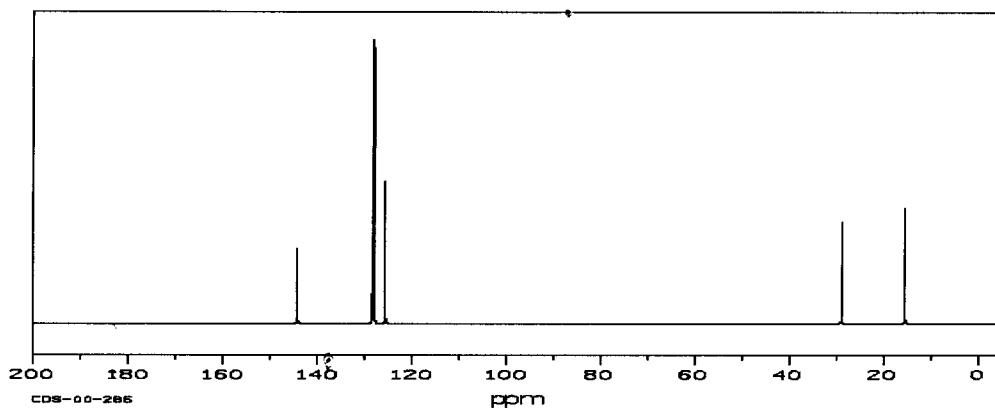


¹³C-NMR HANDOUT
FOR WORKSHOP

Spectrum 1

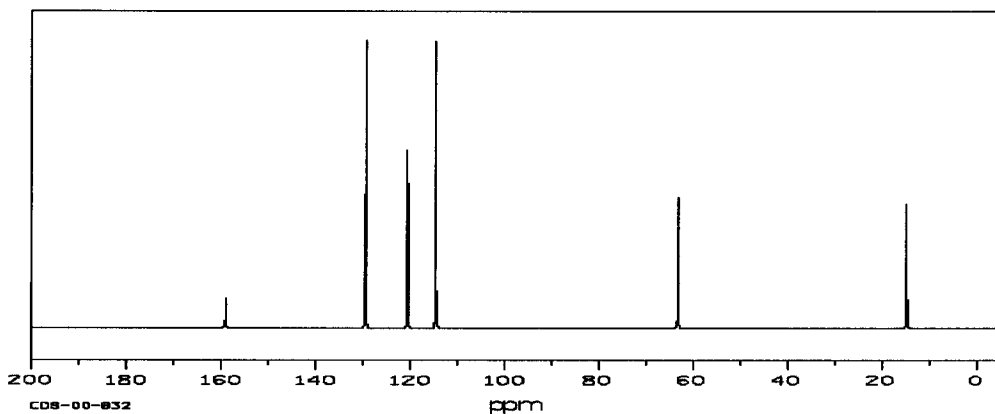
Formula: C_8H_{10}



Note: the signal at 128 ppm is due to two tall signals very close together.

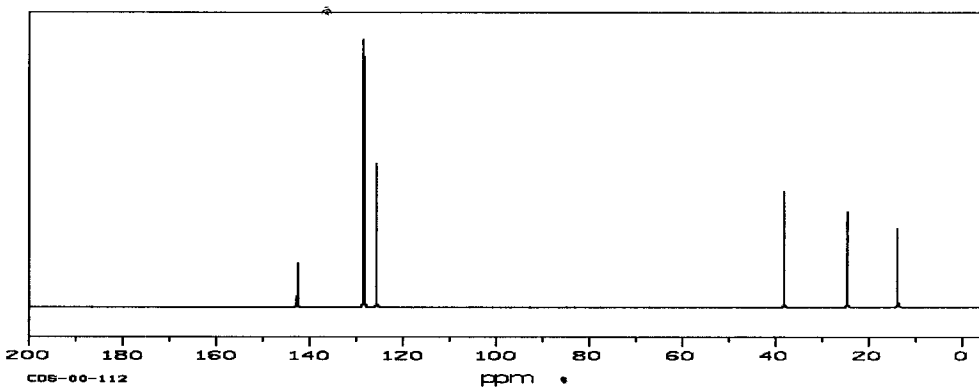
Spectrum 2

Formula: $C_8H_{10}O$



Spectrum 3

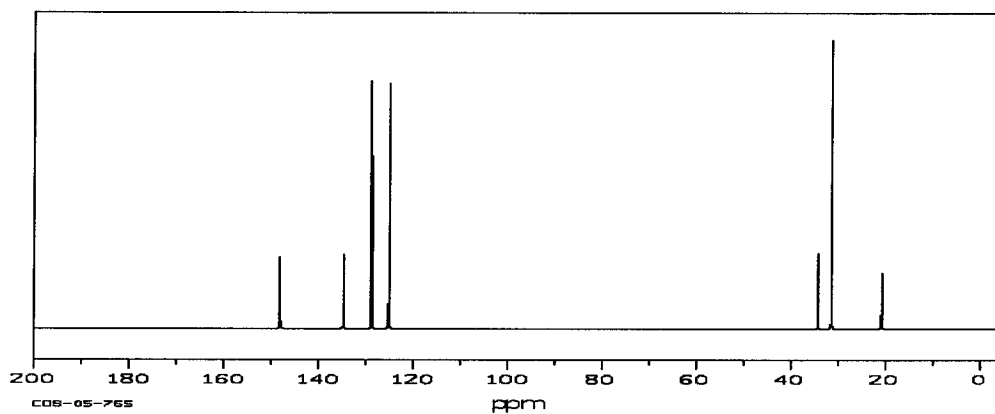
Formula: C_9H_{12}



Note: the signal at 128 ppm is due to two tall signals very close together.

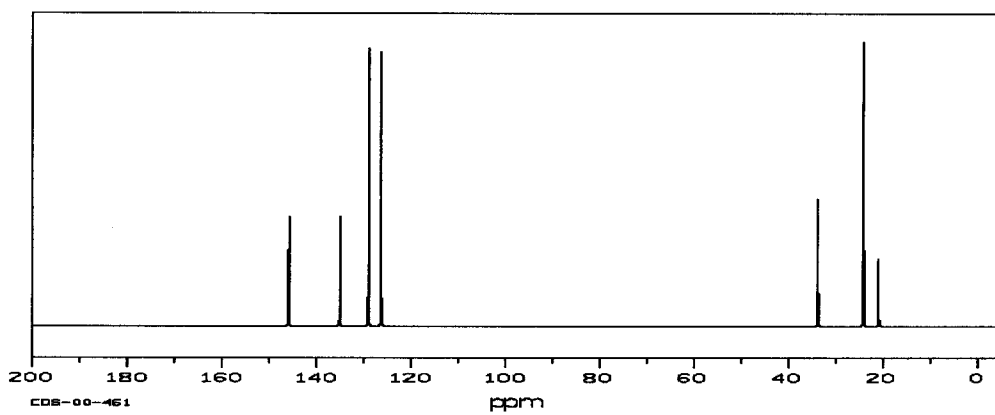
Spectrum 4

Formula: $C_{11}H_{16}$



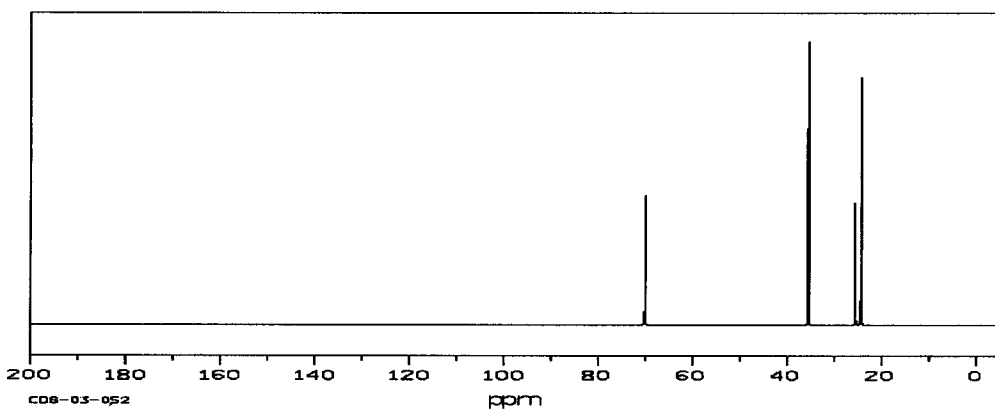
Spectrum 5

Formula: $C_{10}H_{14}$



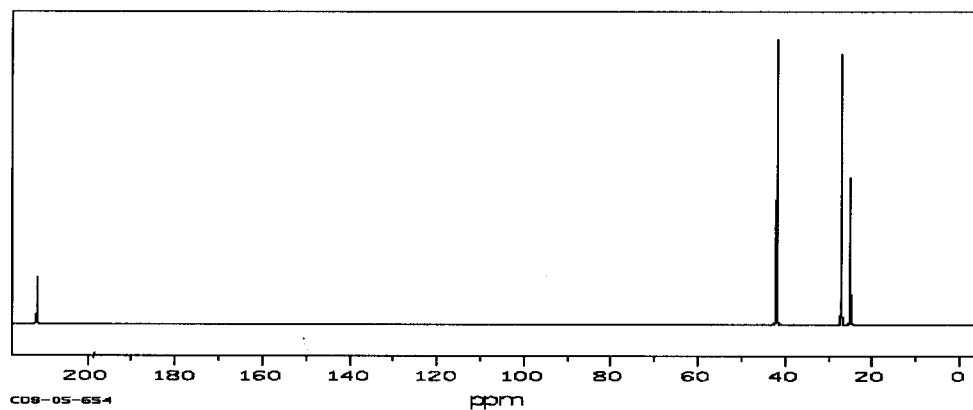
Spectrum 6

Formula: $C_6H_{12}O$



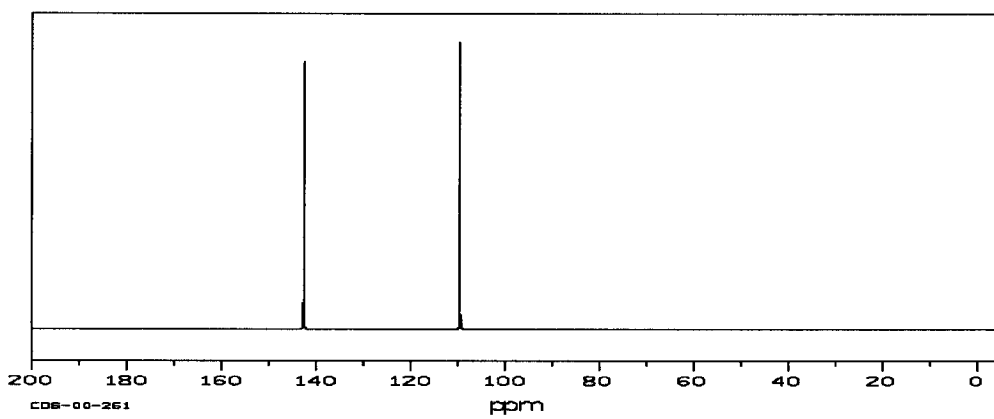
Spectrum 7

Formula: $C_6H_{10}O$



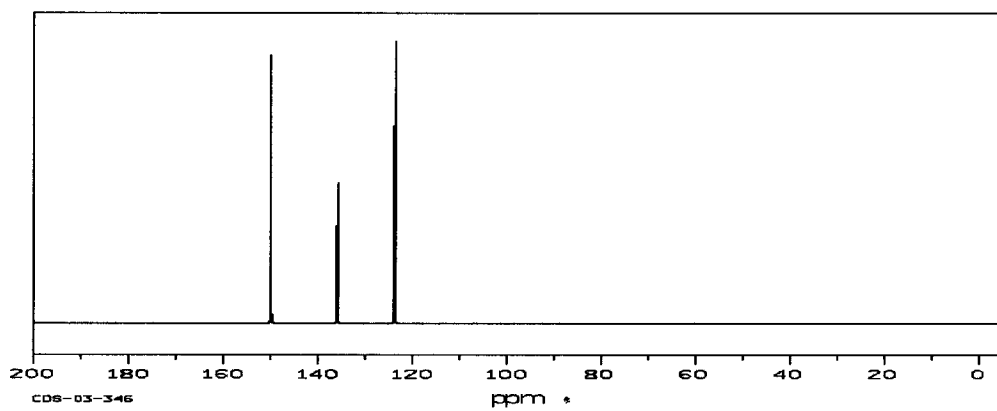
Spectrum 8

Formula: C_4H_4O



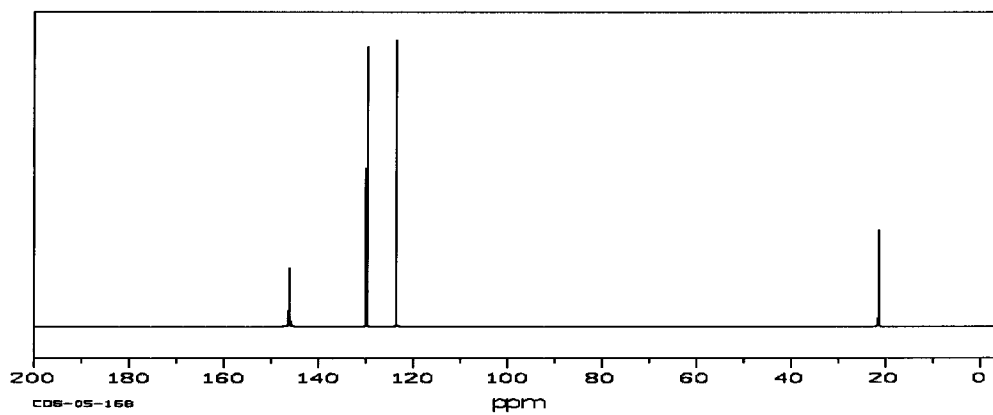
Spectrum 9

Formula: C_5H_5N



Spectrum 10

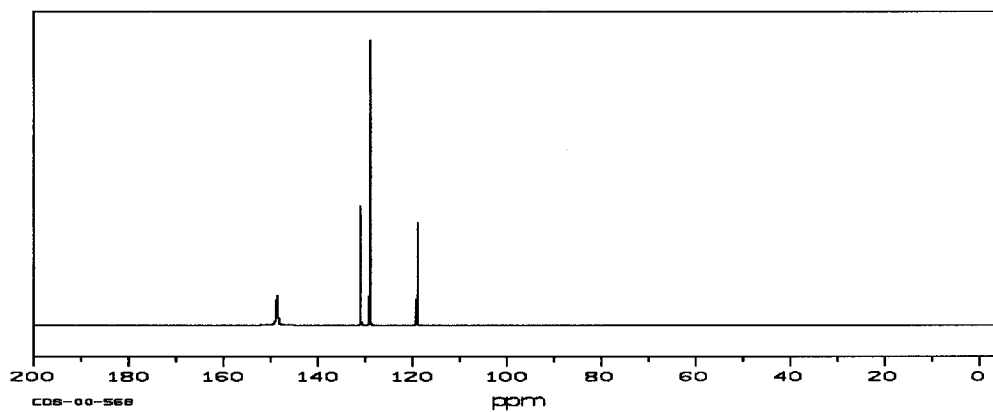
Formula: $C_7H_7NO_2$



Note: the signal at 145 ppm is due to two small signals very close together.

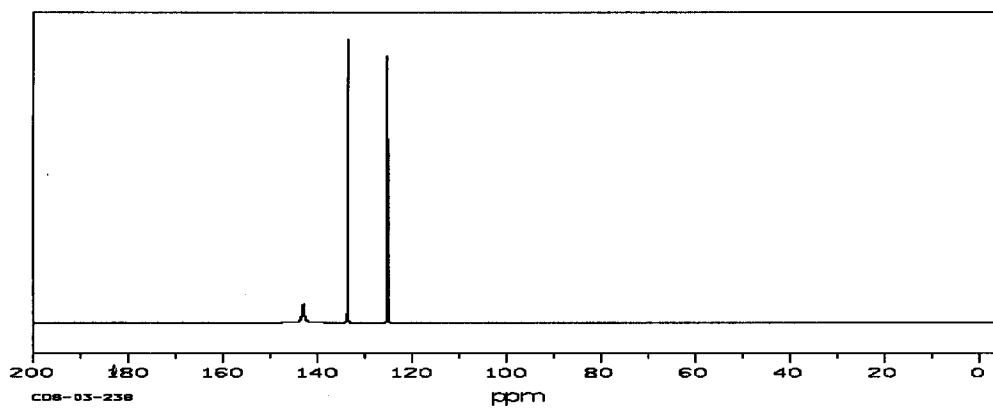
Spectrum 11

Formula: $C_6H_4N_2O_4$



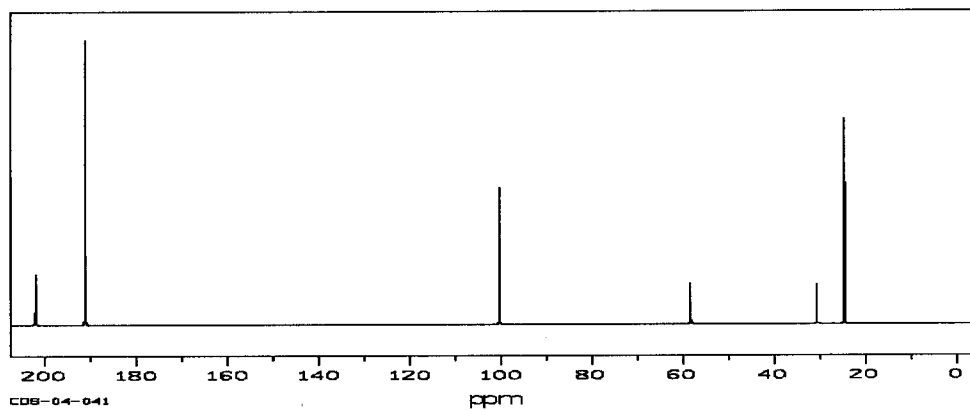
Spectrum 12

Formula: $C_6H_4N_2O_4$



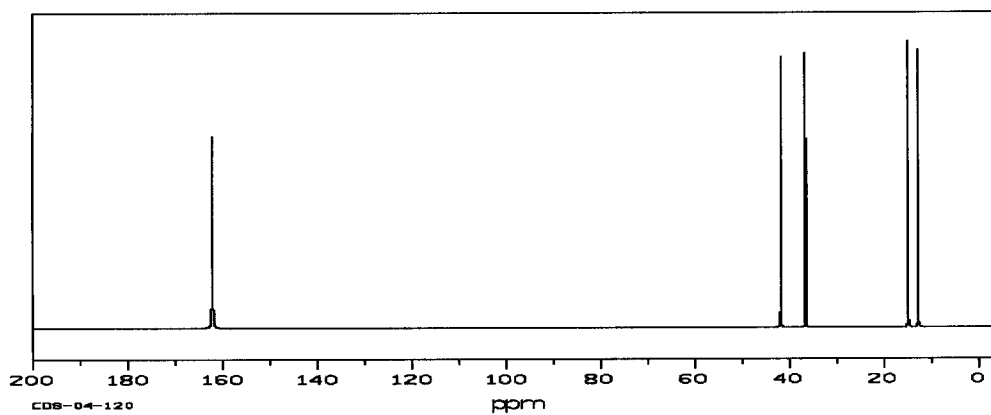
Spectrum 13

Formula: $C_5H_8O_2$



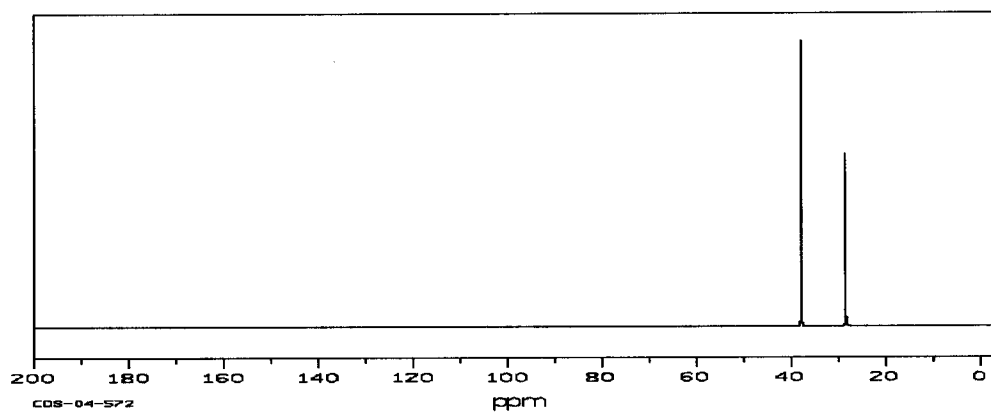
Spectrum 14

Formula: $C_5H_{11}NO$



Spectrum 15

Formula: $C_{10}H_{16}$



Key for ^{13}C -NMR handout

<i>Spectrum</i>	<i>Compound</i>
1	ethyl benzene
2	ethoxy benzene
3	propyl benzene
4	p-tert-butyltoluene
5	p-isopropyltoluene (cymene)
6	cyclohexanol
7	cyclohexanone
8	furan
9	pyridine
10	p-nitrotoluene
11	m-dinitrobenzene
12	o-dinitrobenzene
13	2,4-pentadione (acetylacetone)
14	N,N-diethylformamide
15	adamantane