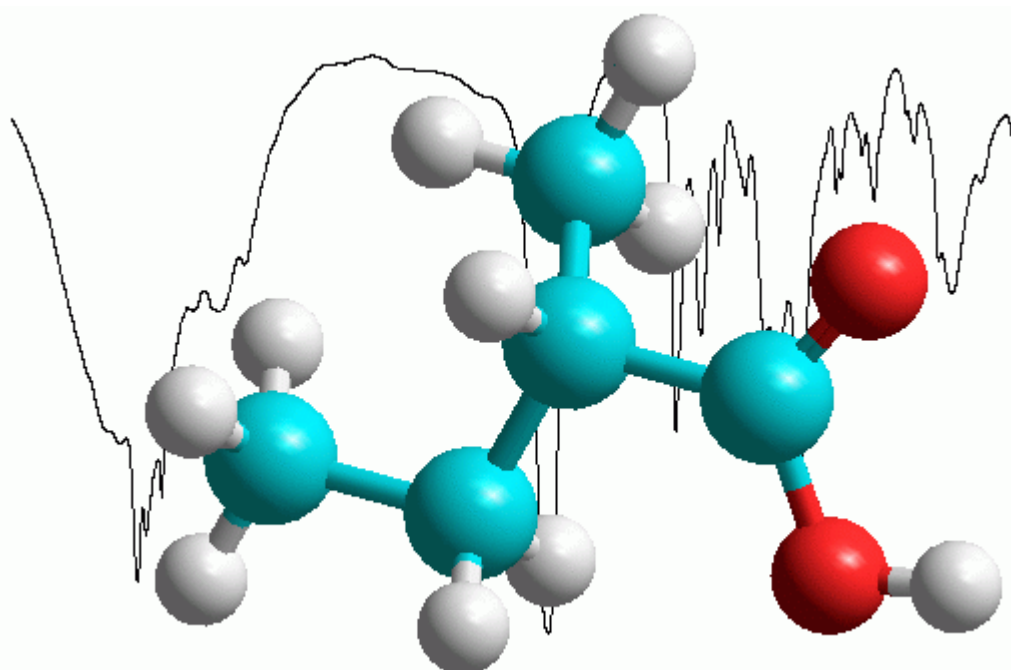


Mauro Tonellato

PROBLEMI DI SPETTROSCOPIA IR IR MASSA NMR

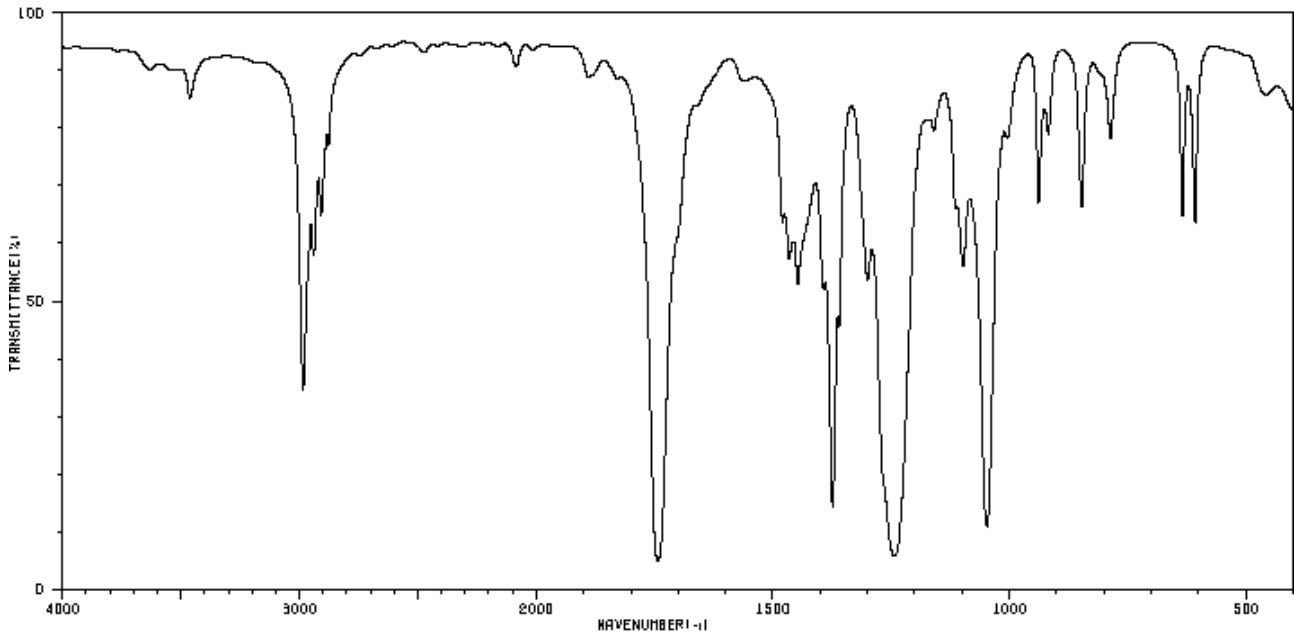


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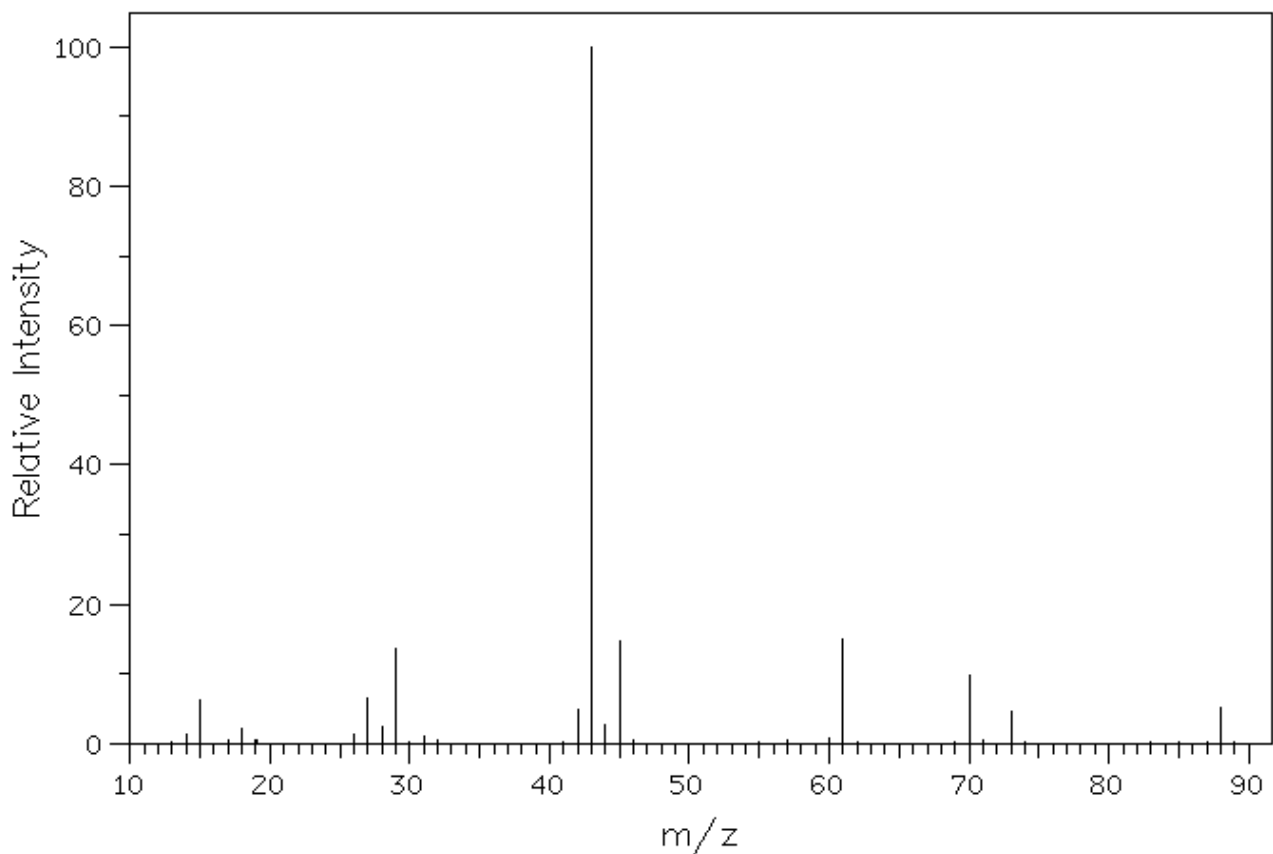
Spettroscopia: problema n° 1

Determinate la struttura della molecola incognita a cui si riferiscono i seguenti spettri:

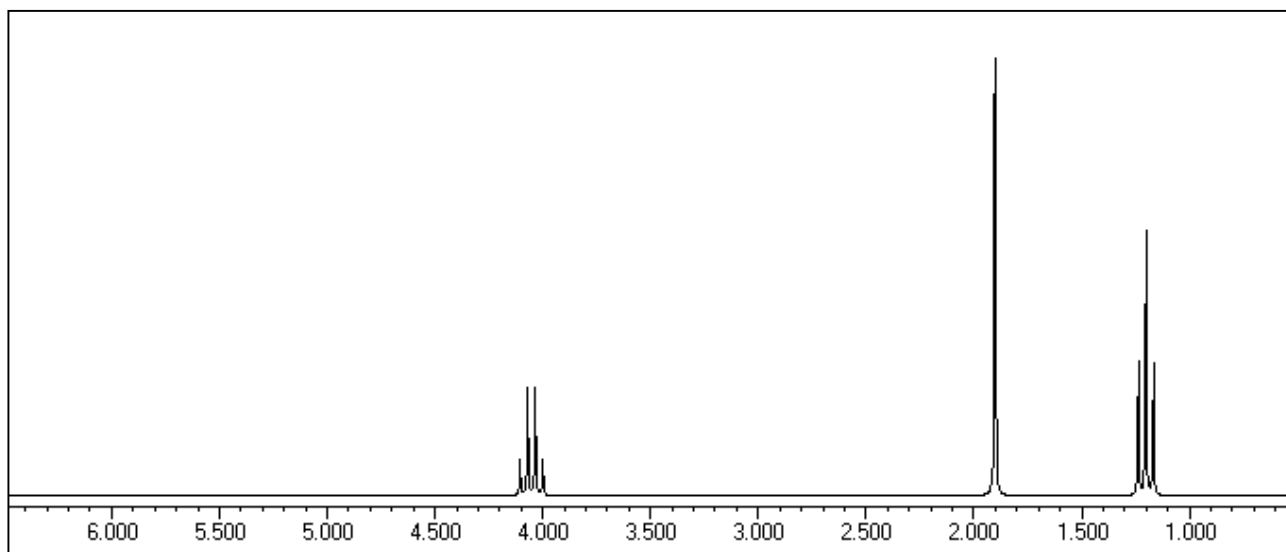
Spettro IR:



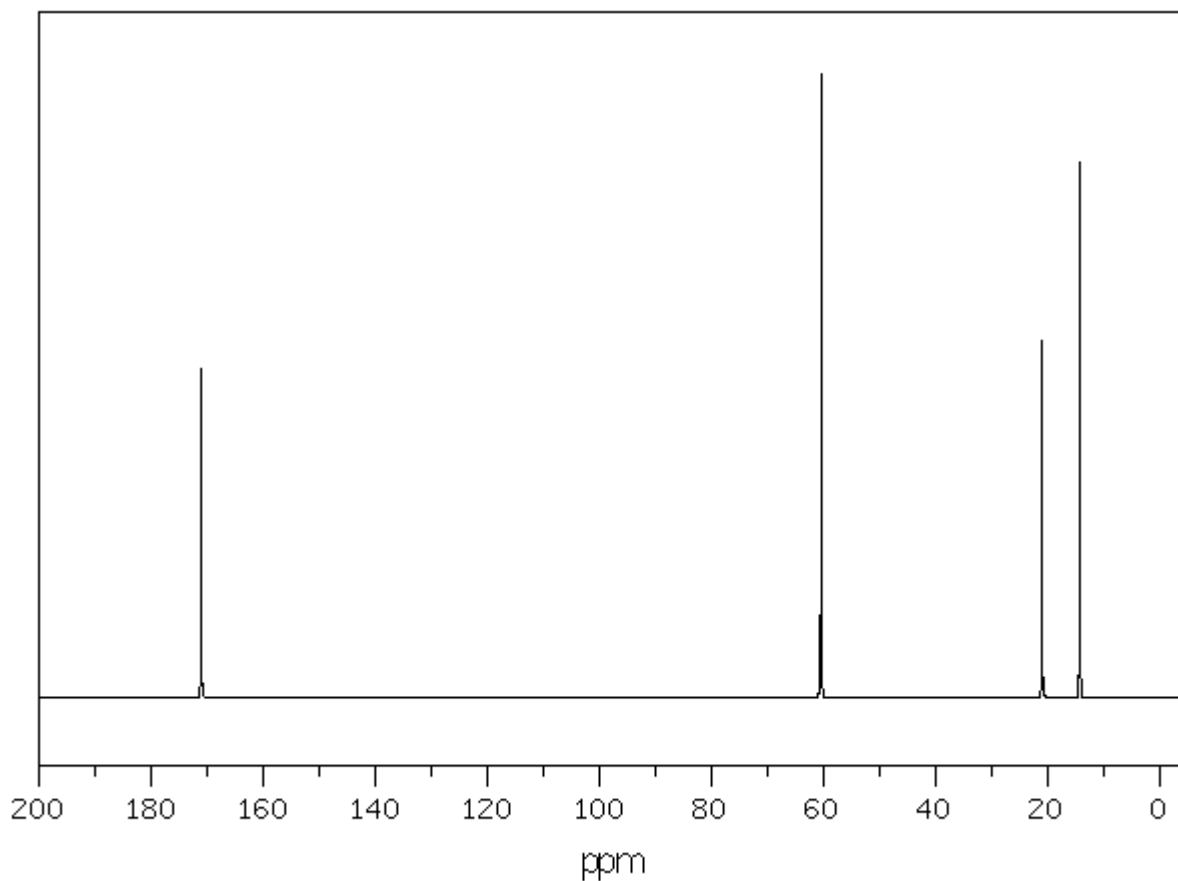
Spettro di massa:



Spettro H-NMR:



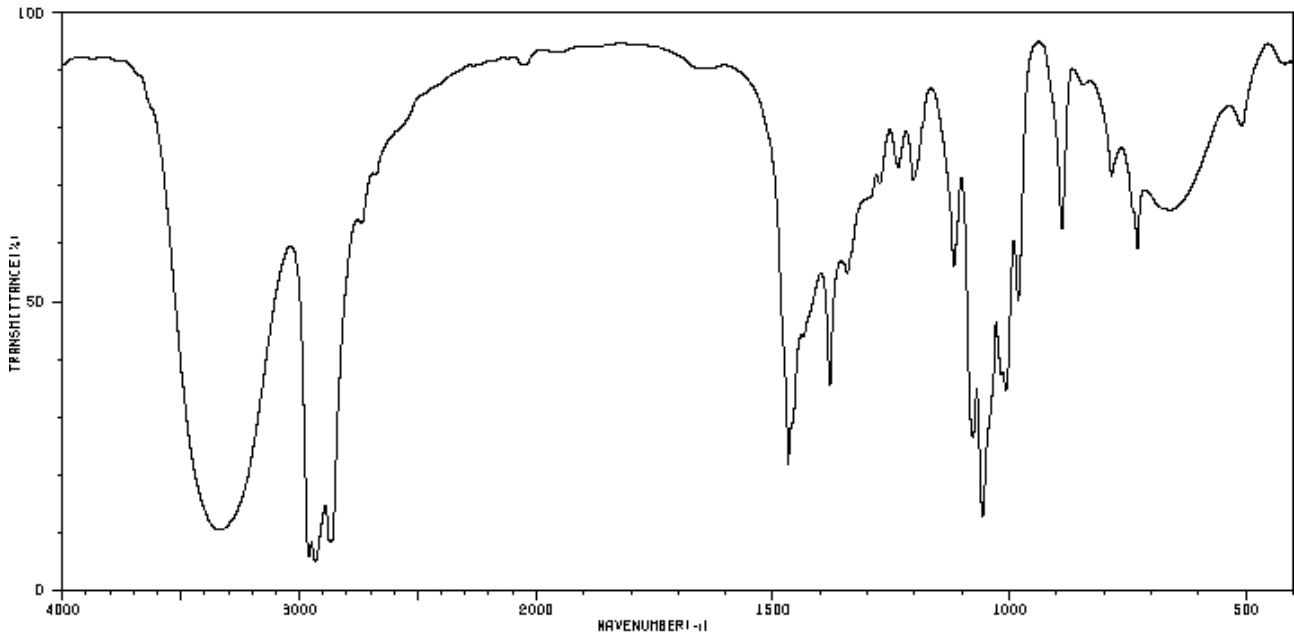
Spettro C-NMR:



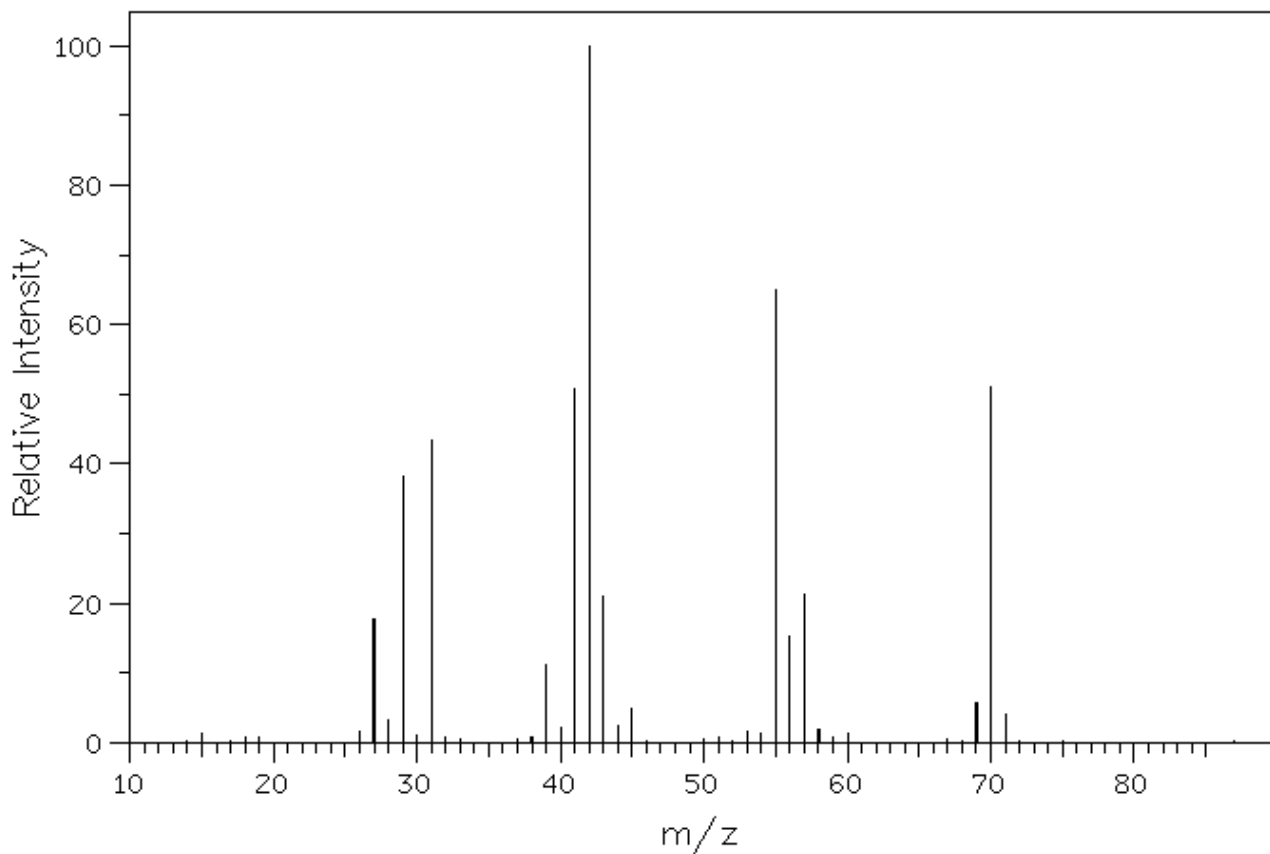
Spettroscopia: problema n° 2

Determinate la struttura della molecola incognita a cui si riferiscono i seguenti spettri:

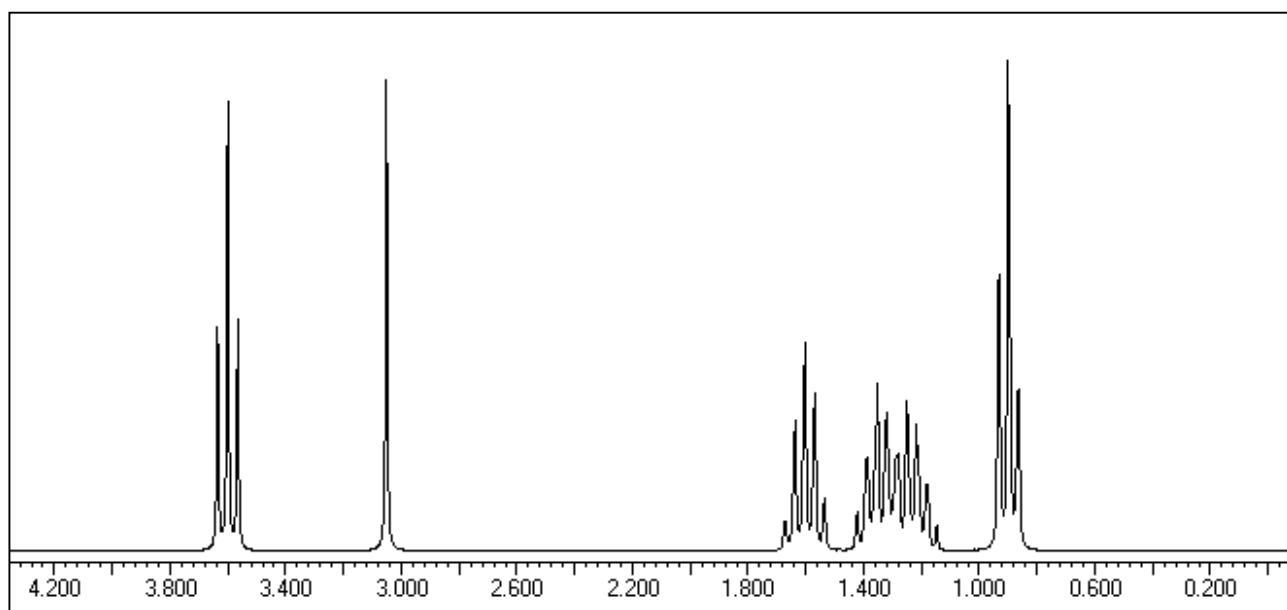
Spettro IR:



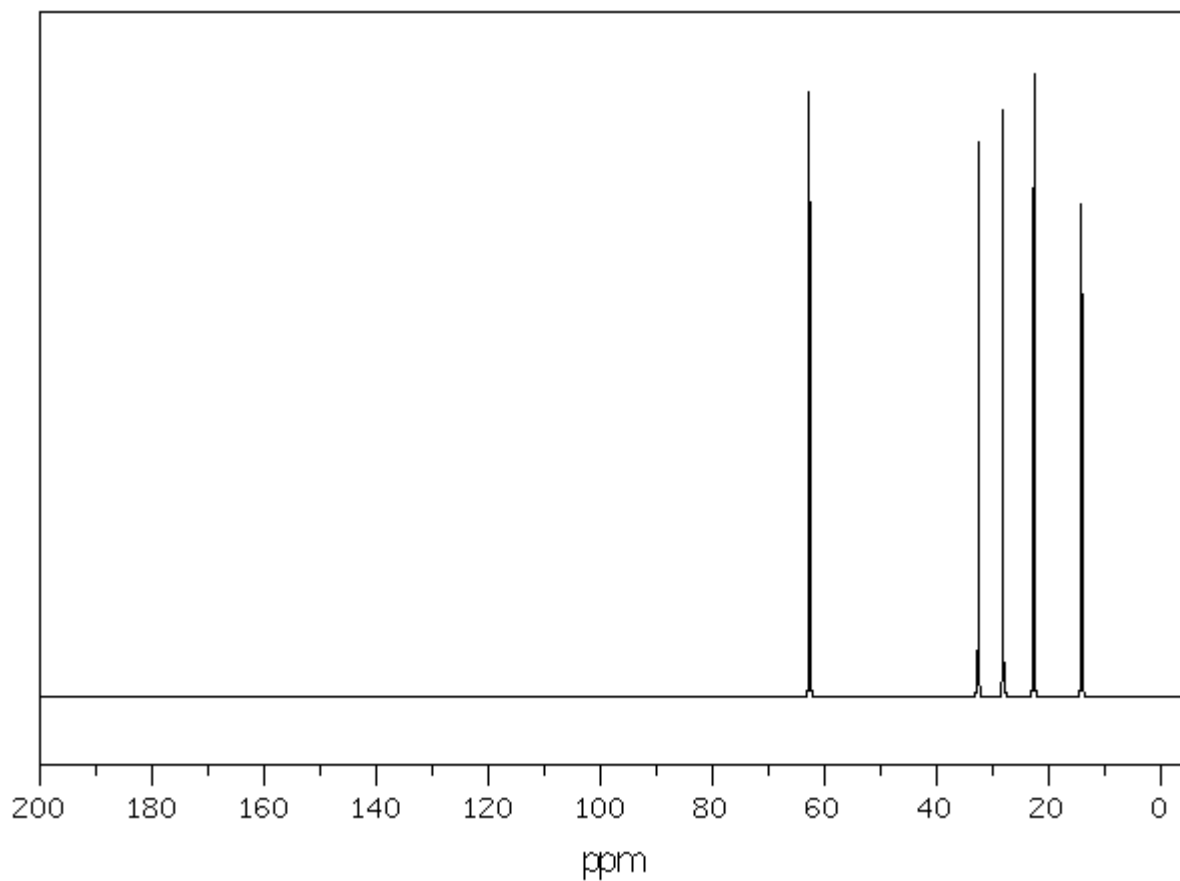
Spettro di massa:



Spettro H-NMR:



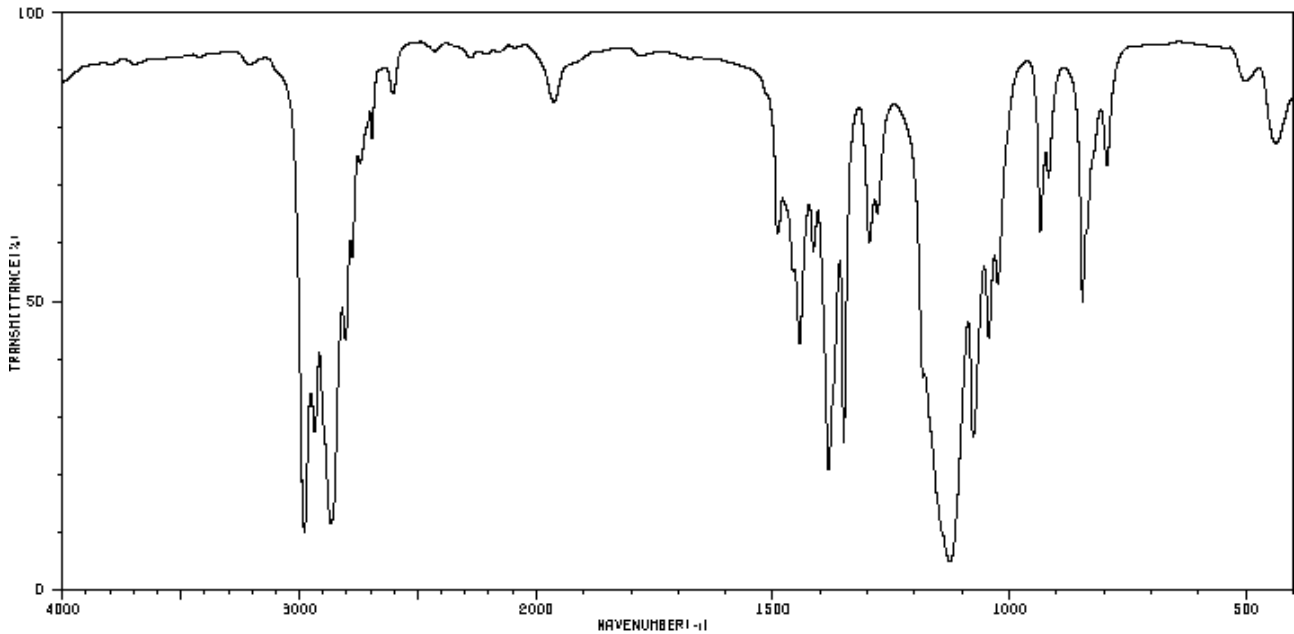
Spettro C-NMR:



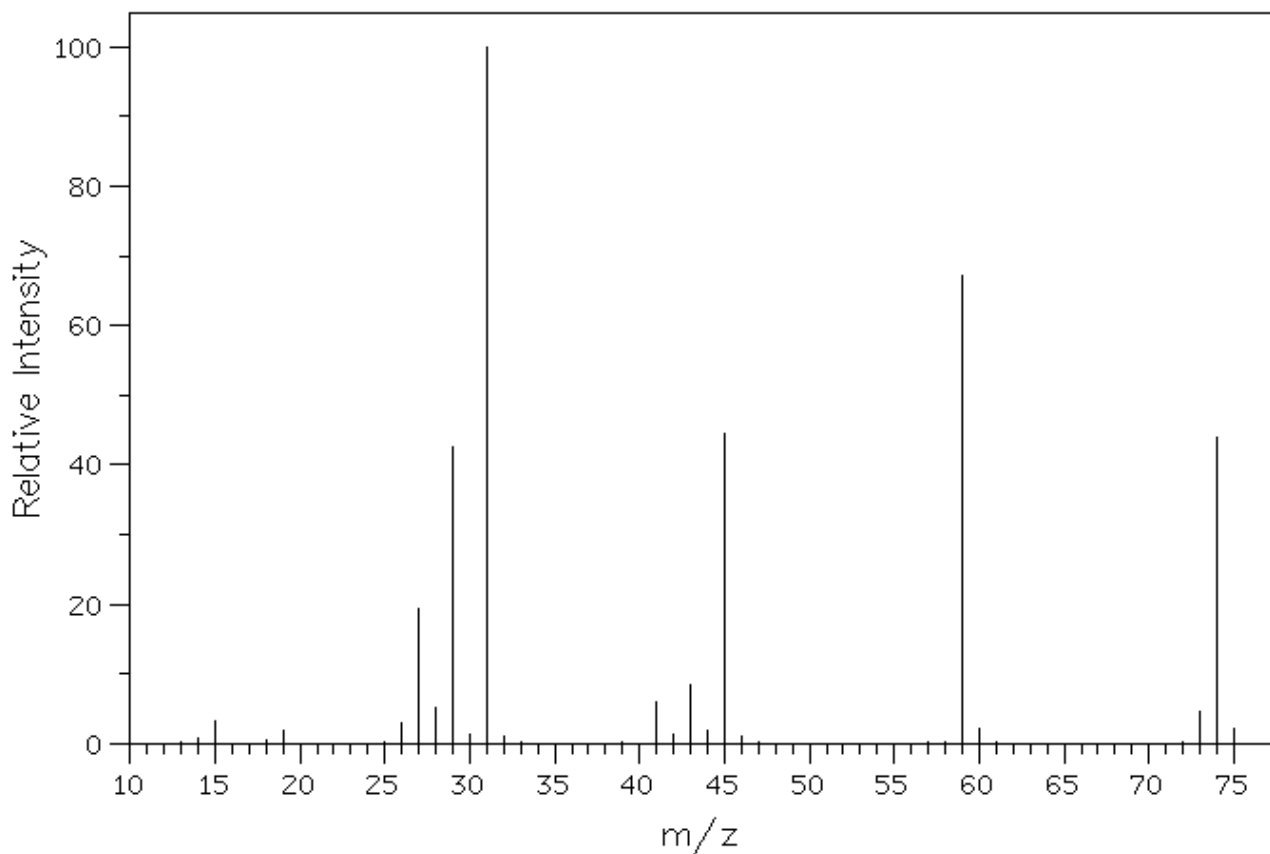
Spettroscopia: problema n° 3

Determinate la struttura della molecola incognita a cui si riferiscono i seguenti spettri:

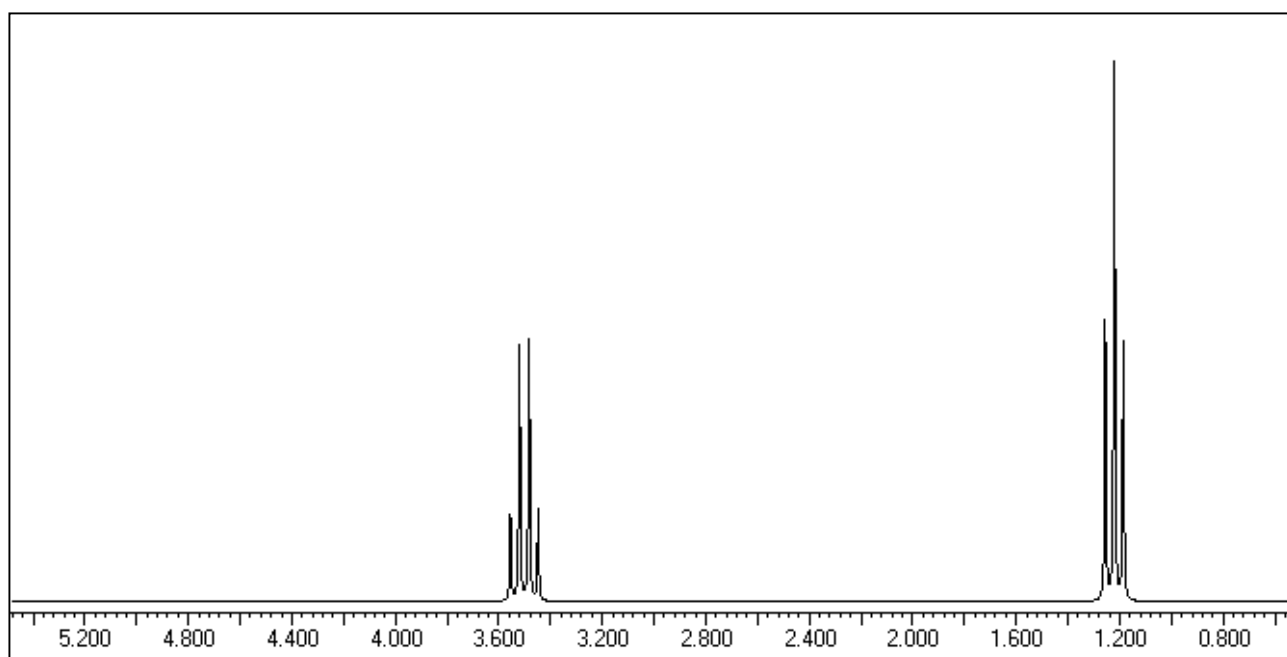
Spettro IR:



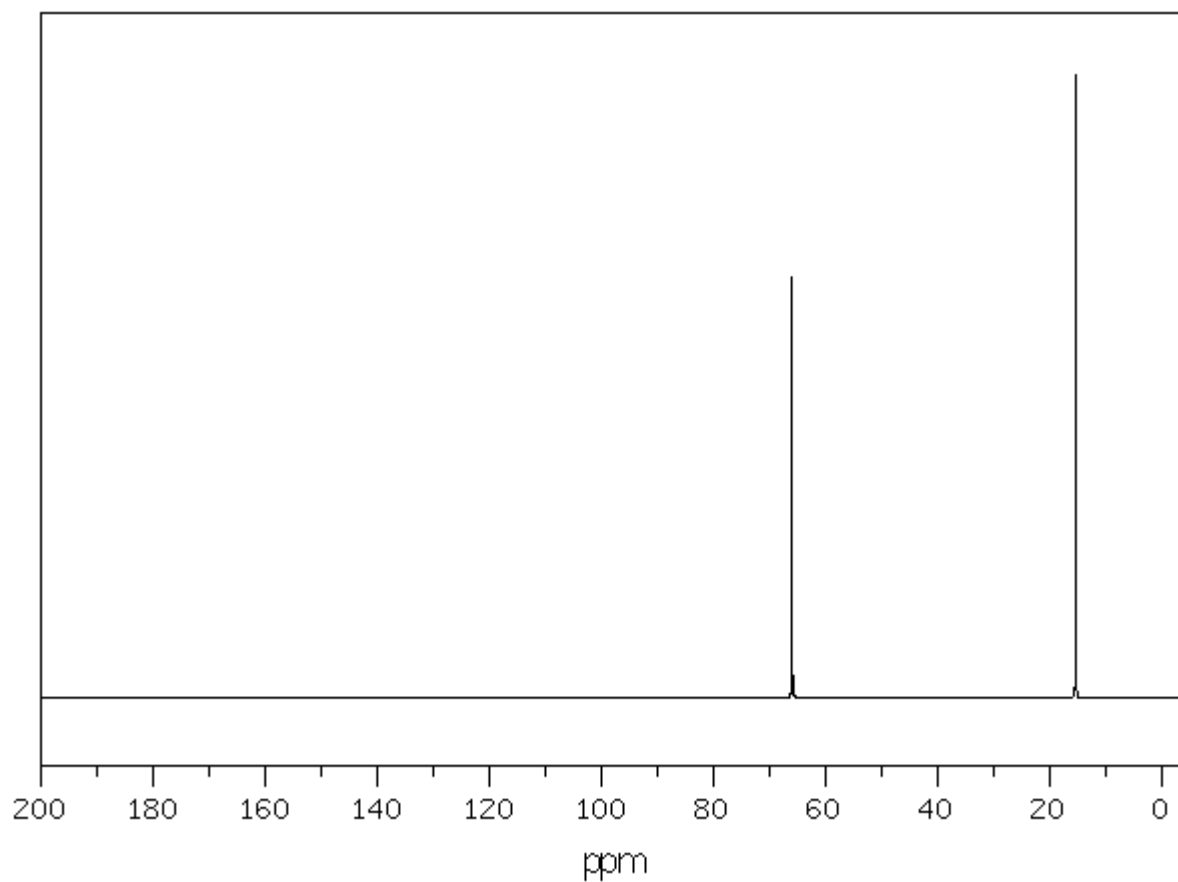
Spettro di Massa:



Spettro H-NMR:



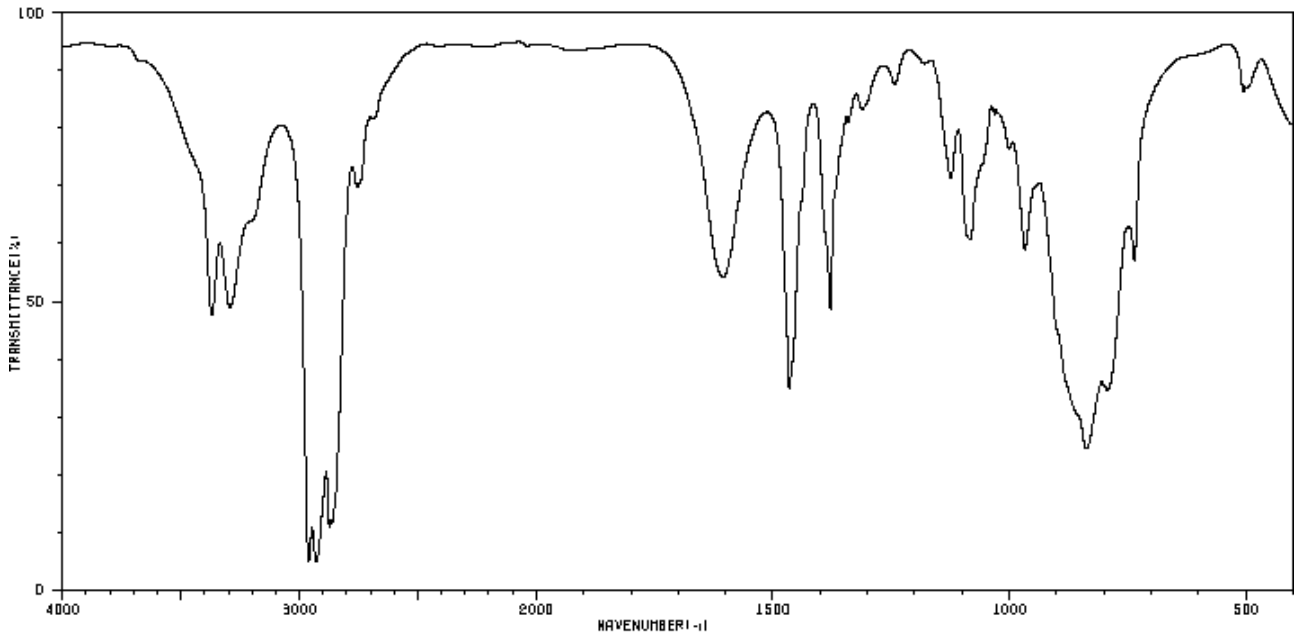
Spettro C-NMR:



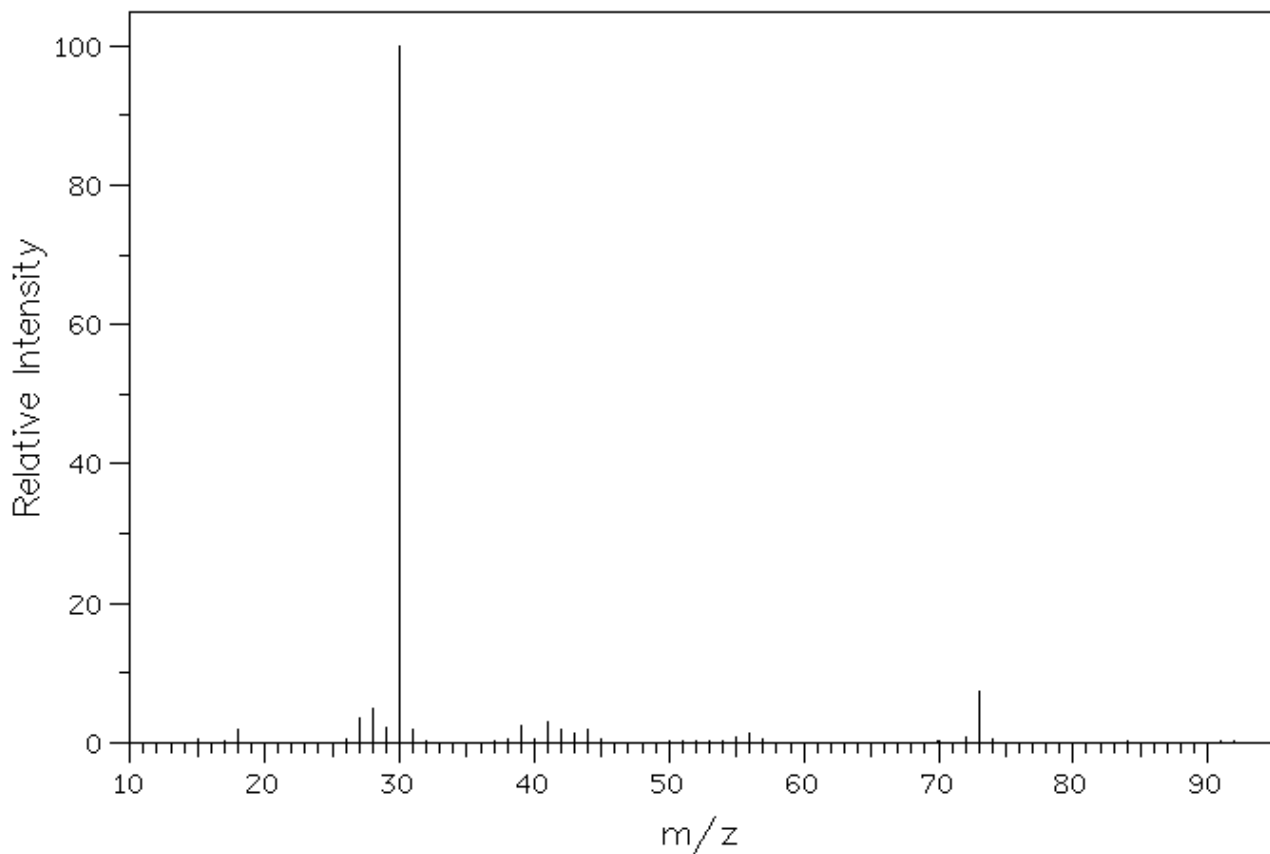
Spettroscopia: problema n° 4

Determinate la struttura della molecola incognita a cui si riferiscono i seguenti spettri:

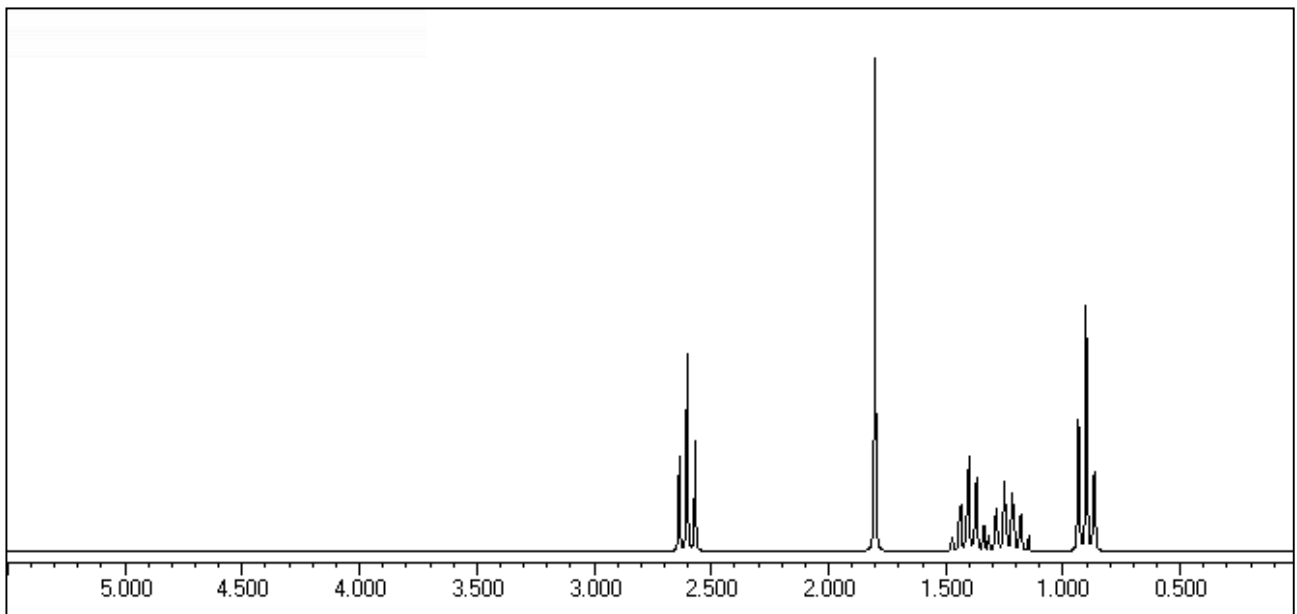
Spettro IR:



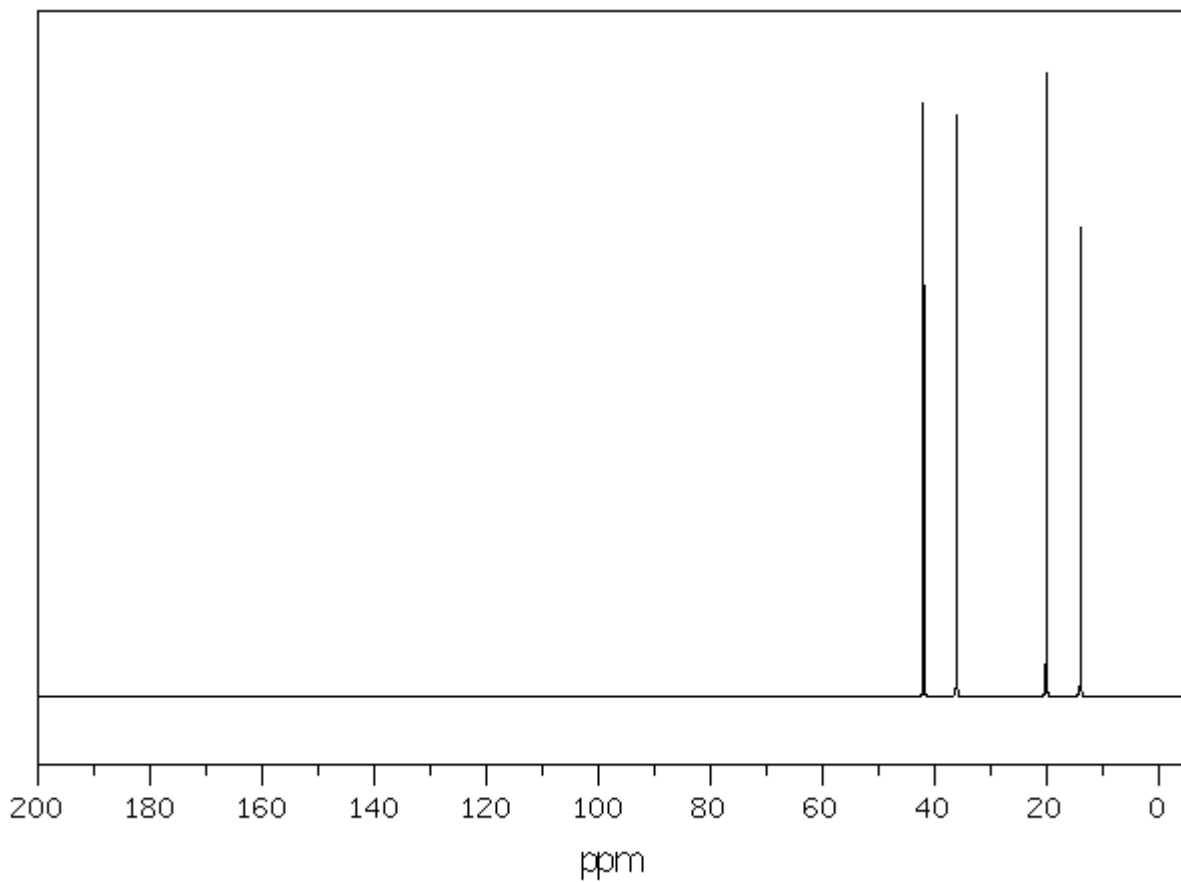
Spettro di Massa:



Spettro H-NMR:



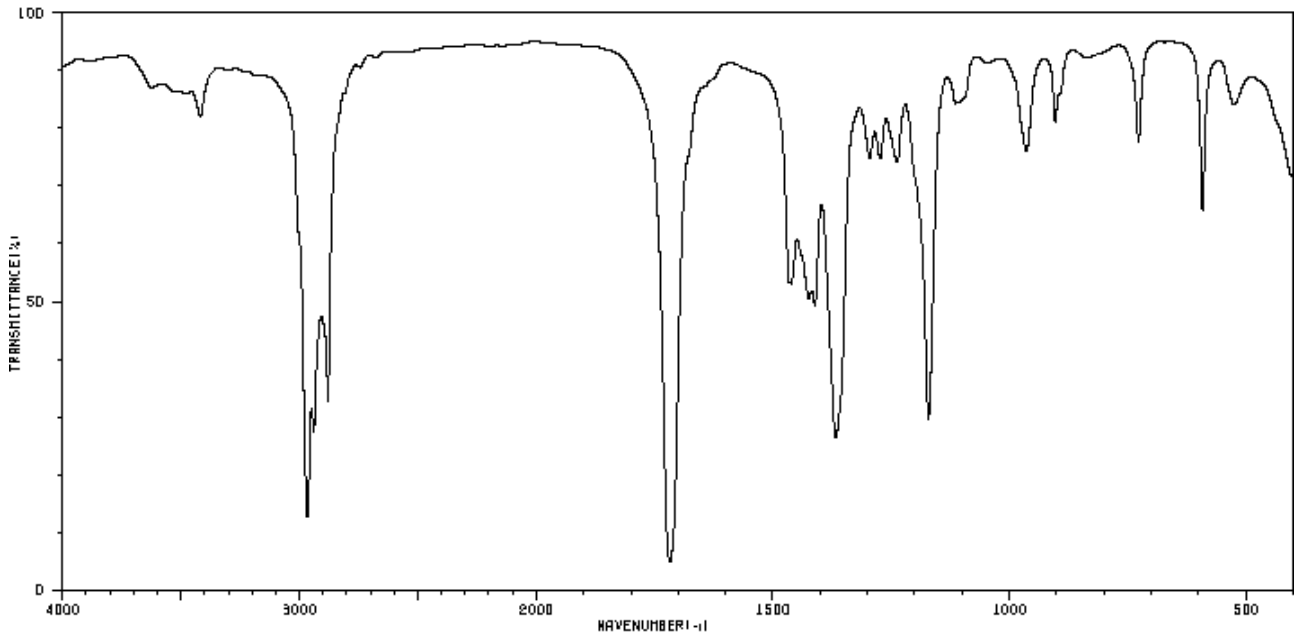
Spettro C-NMR:



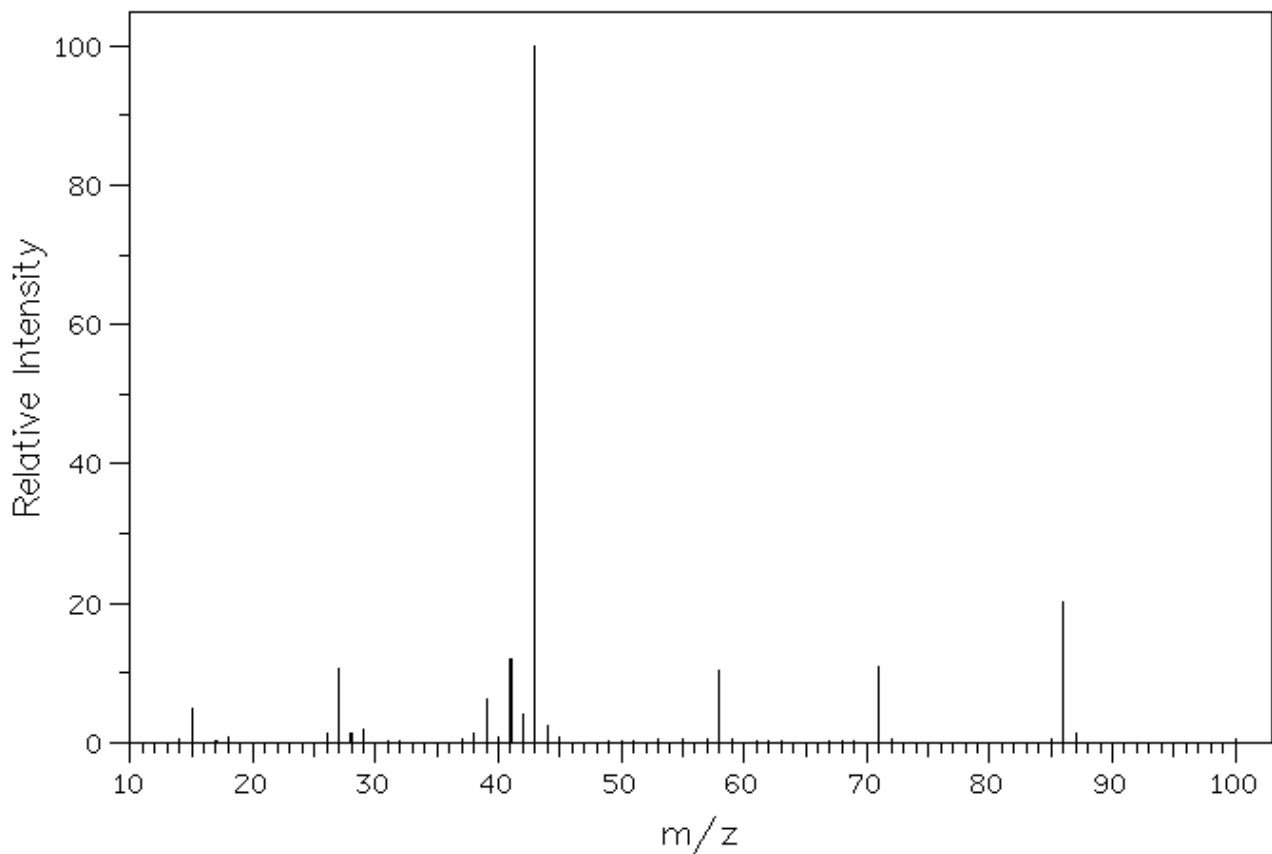
Spettroscopia: problema n° 5

Determinate la struttura della molecola incognita a cui si riferiscono i seguenti spettri:

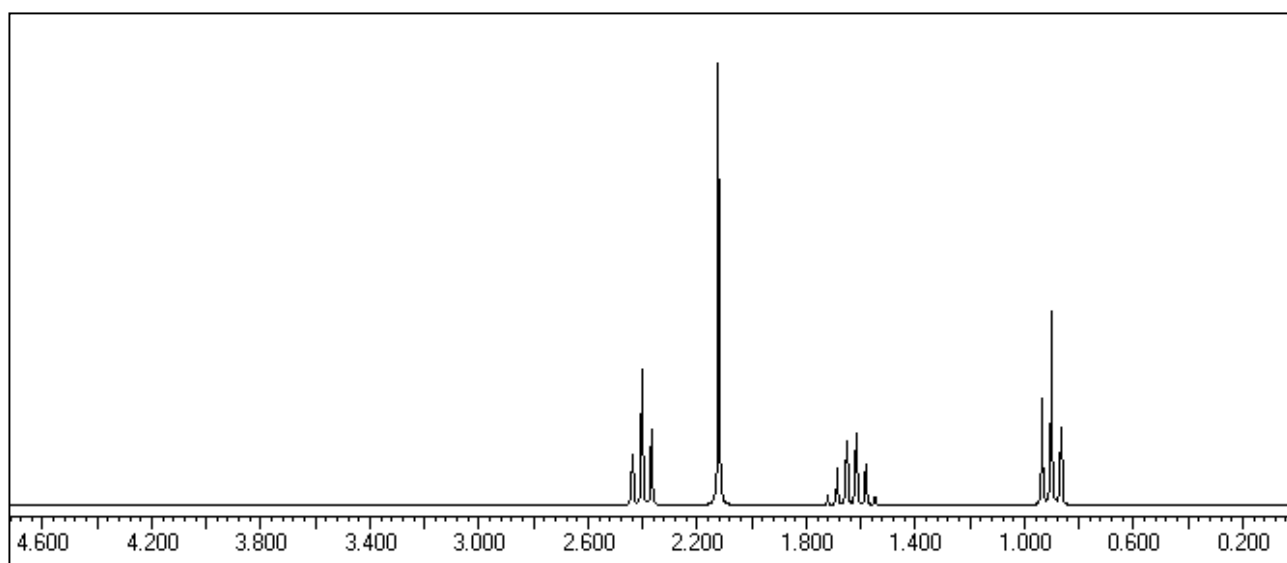
Spettro IR:



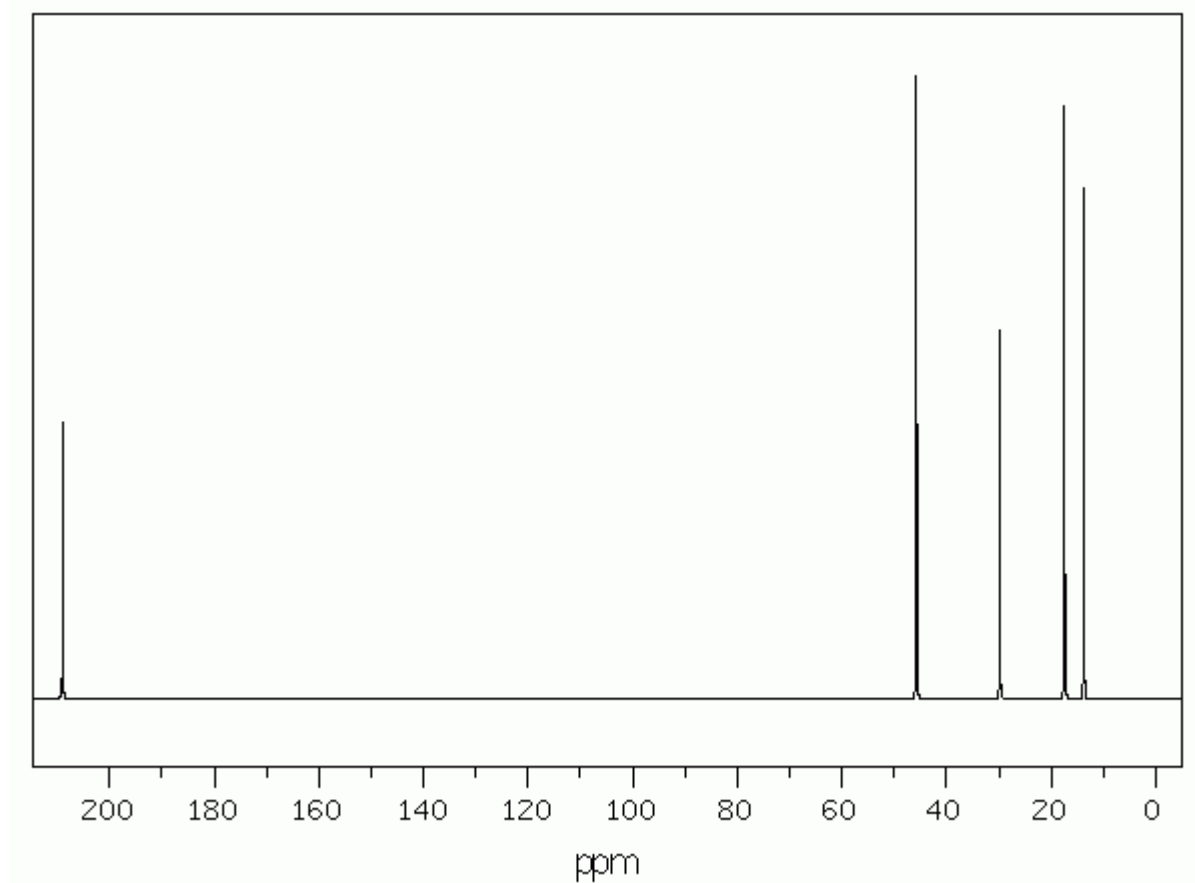
Spettro di Massa:



Spettro H-NMR:



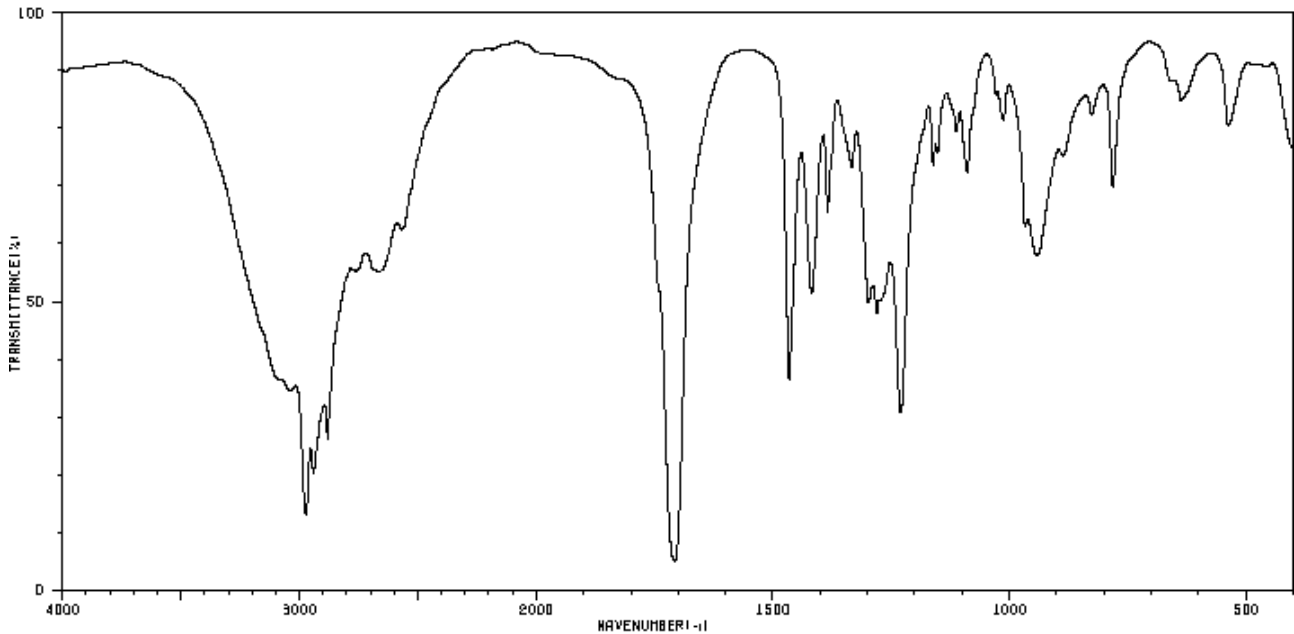
Spettro C-NMR:



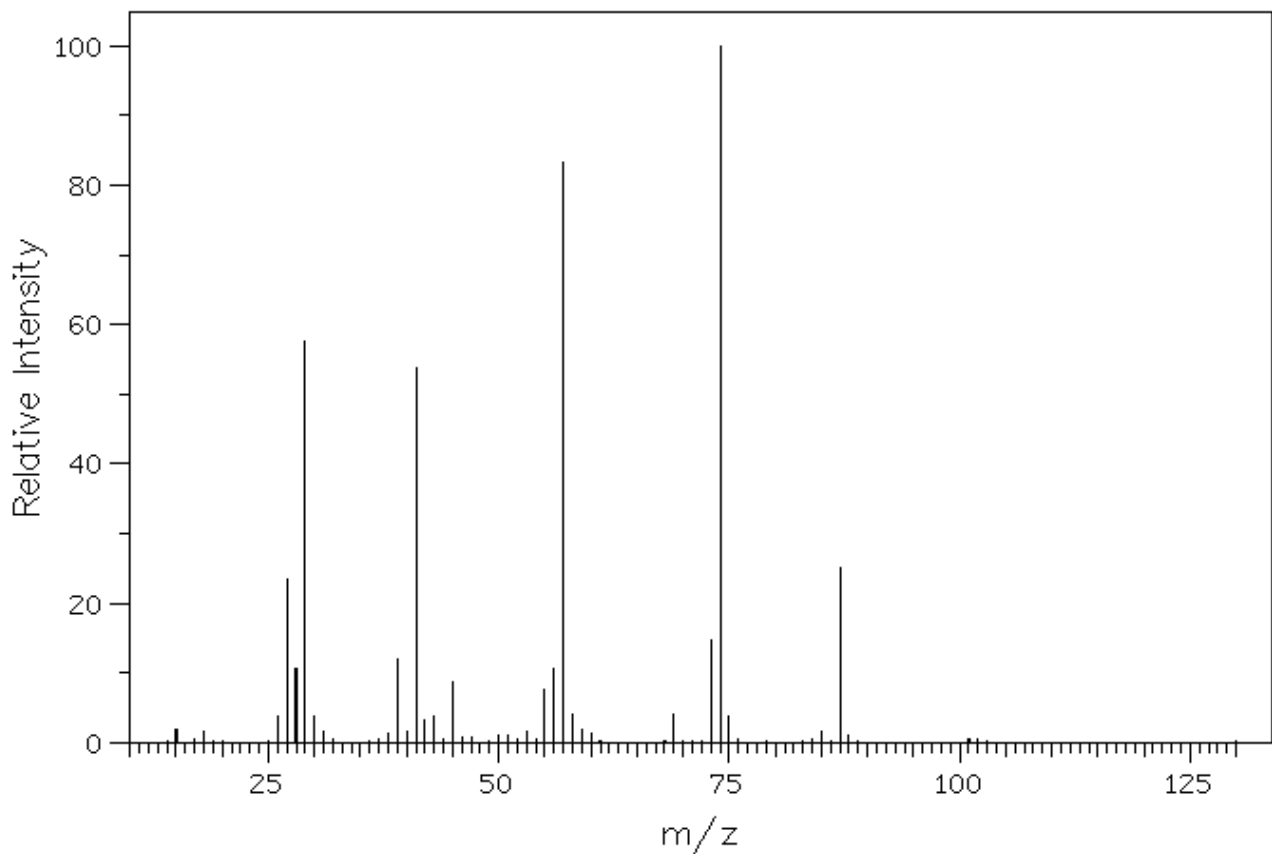
Spettroscopia: problema n° 6

Determinate la struttura della molecola incognita a cui si riferiscono i seguenti spettri:

Spettro IR:

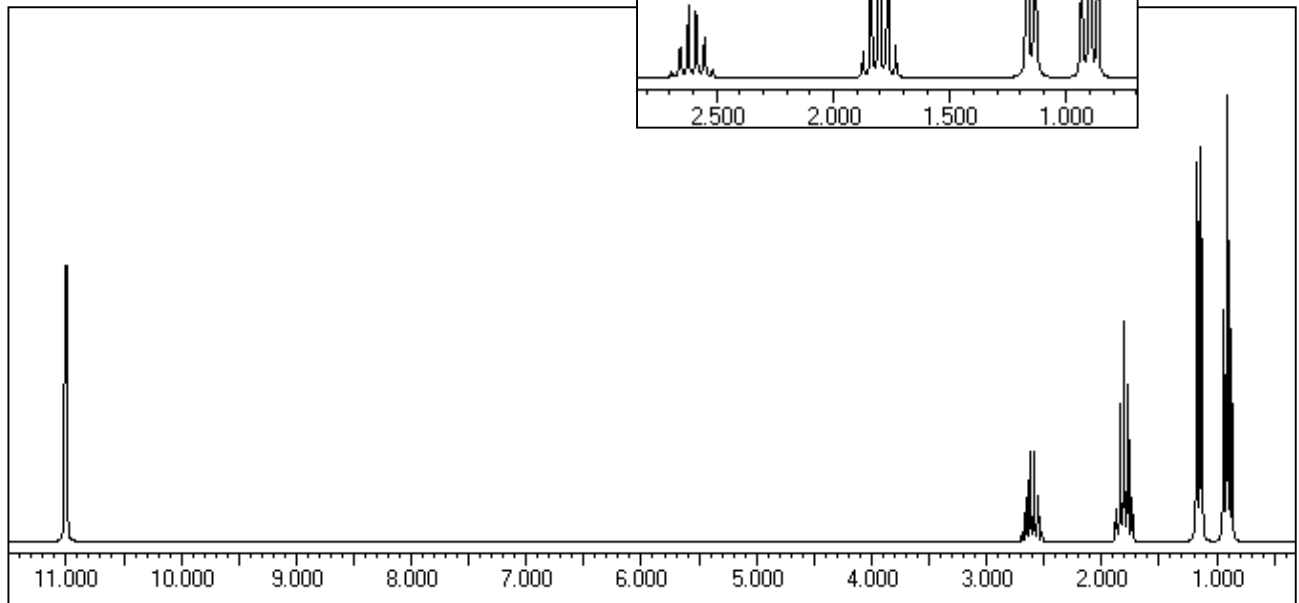


Spettro di Massa:

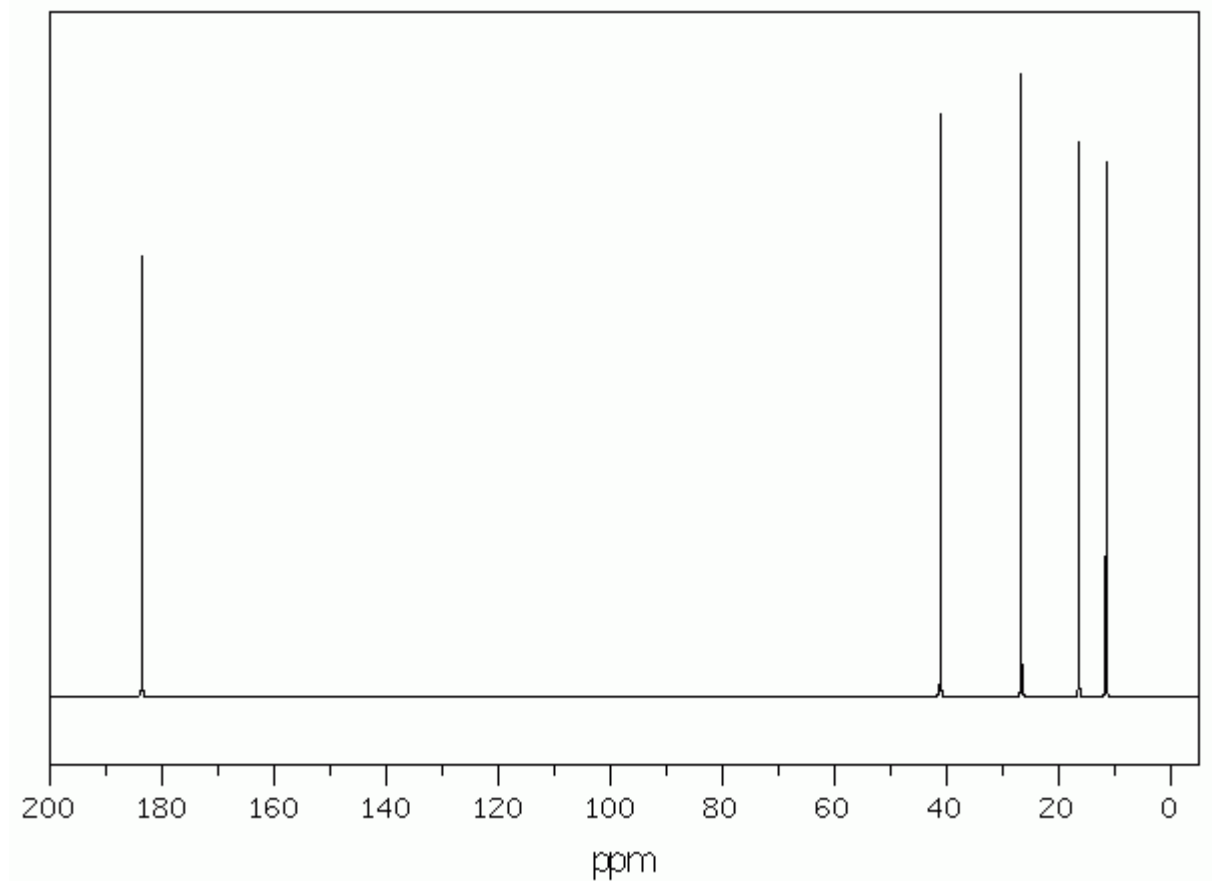


Spettro H-NMR:

Dettaglio:



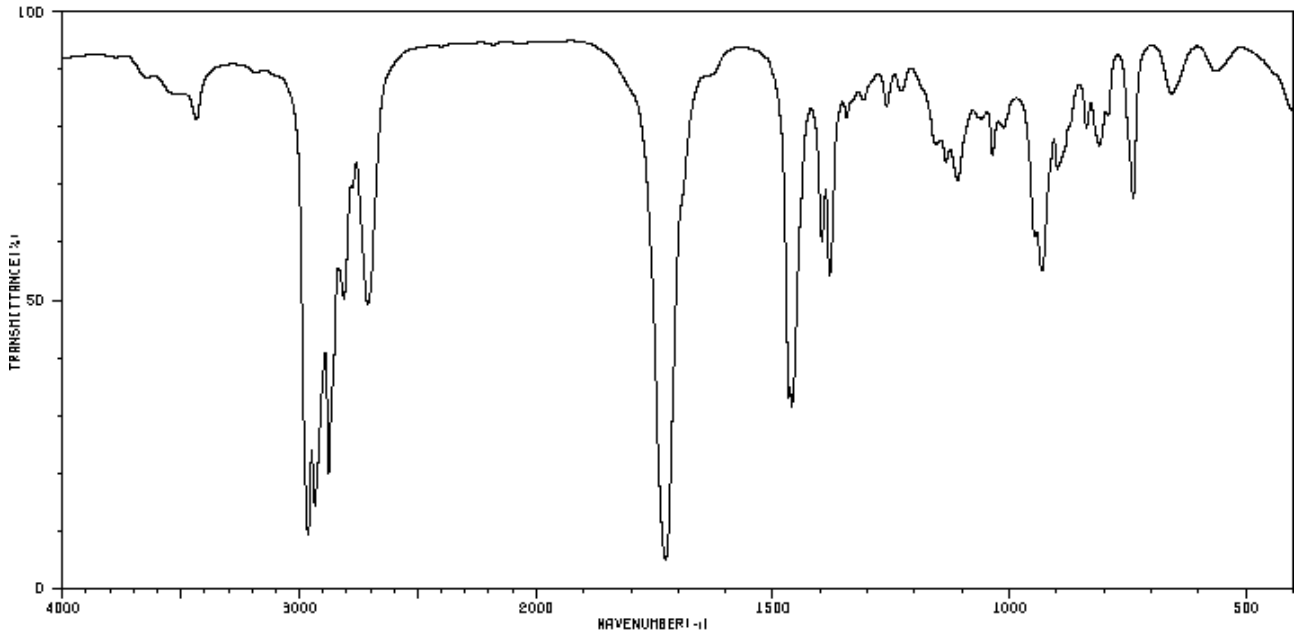
Spettro C-NMR:



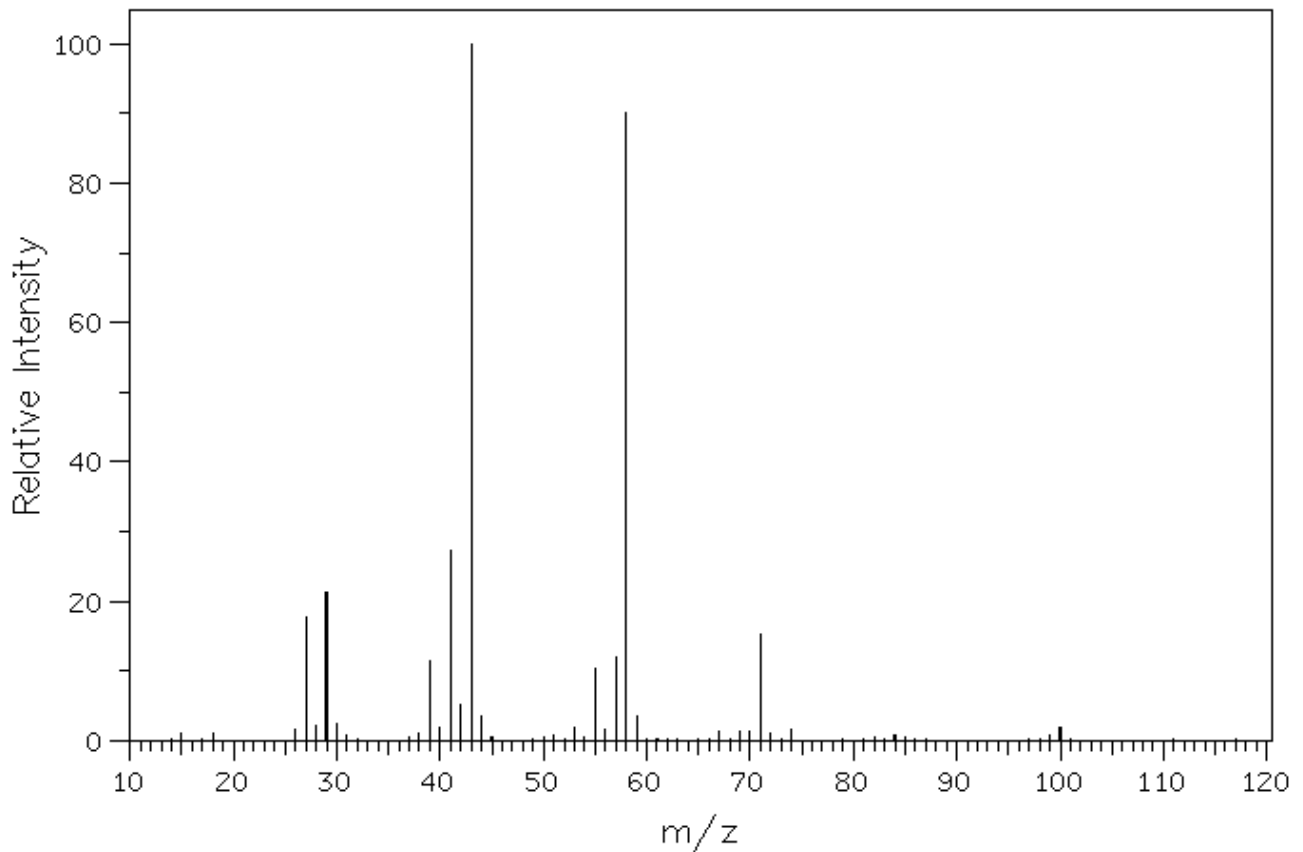
Spettroscopia: problema n° 7

Determinate la struttura della molecola incognita a cui si riferiscono i seguenti spettri:

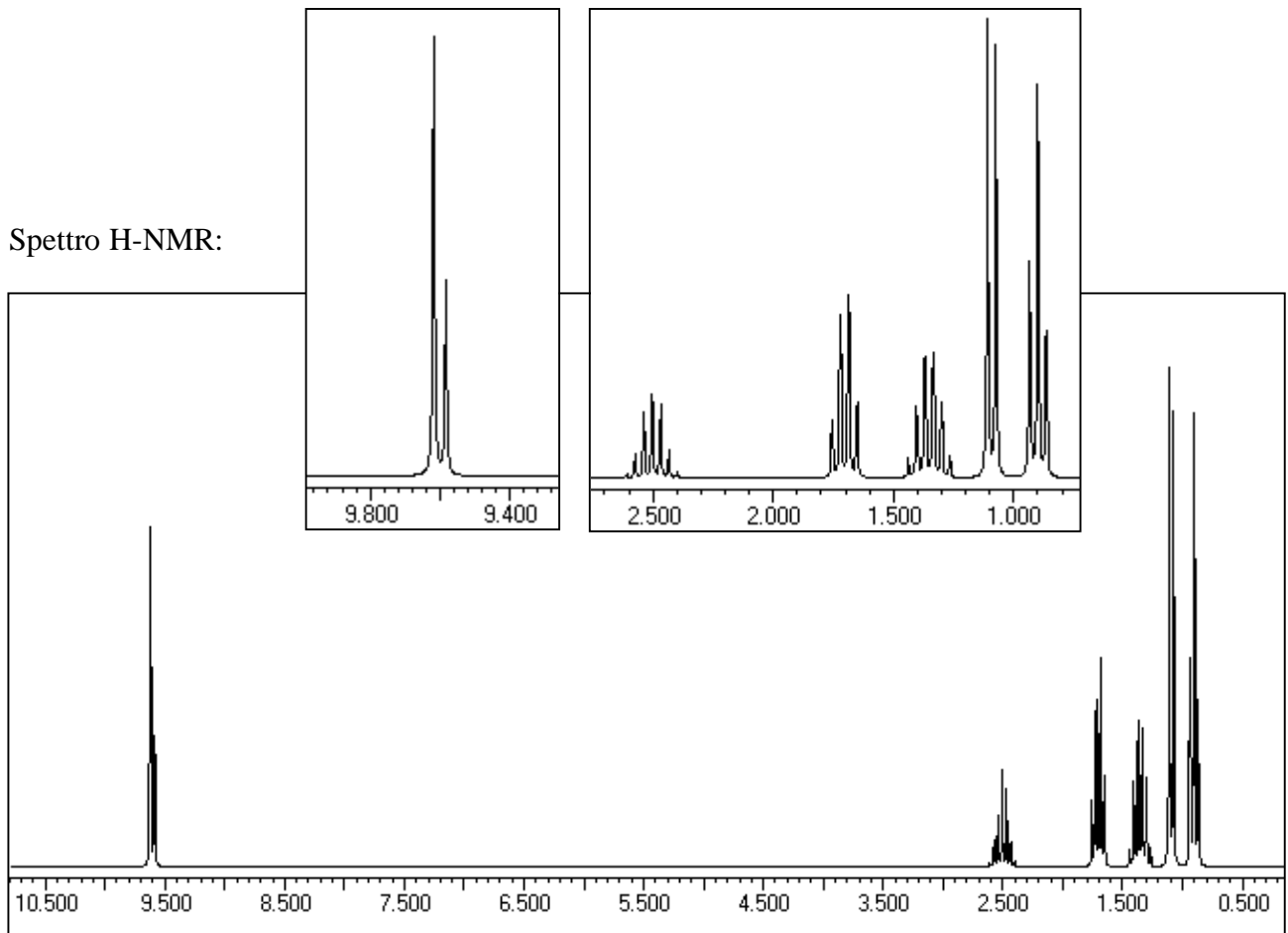
Spettro IR:



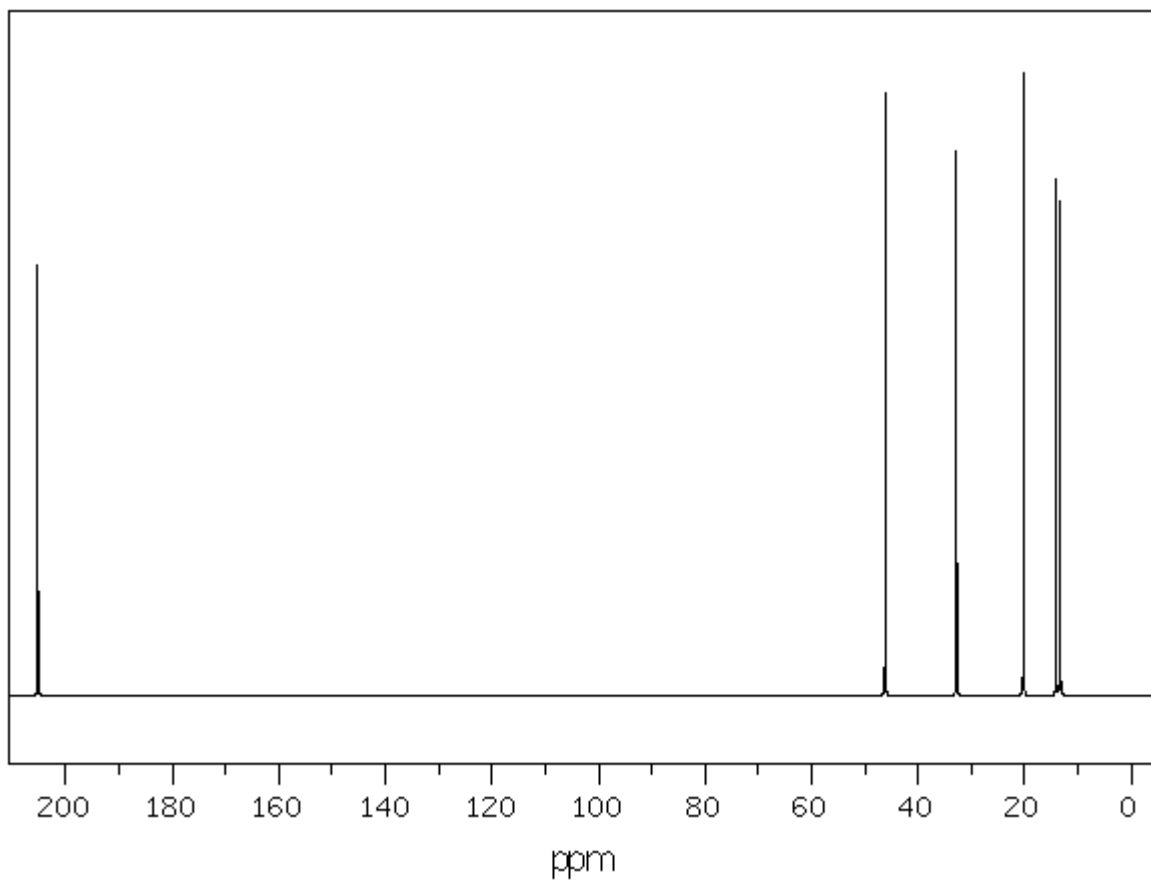
Spettro di Massa:



Spettro H-NMR:



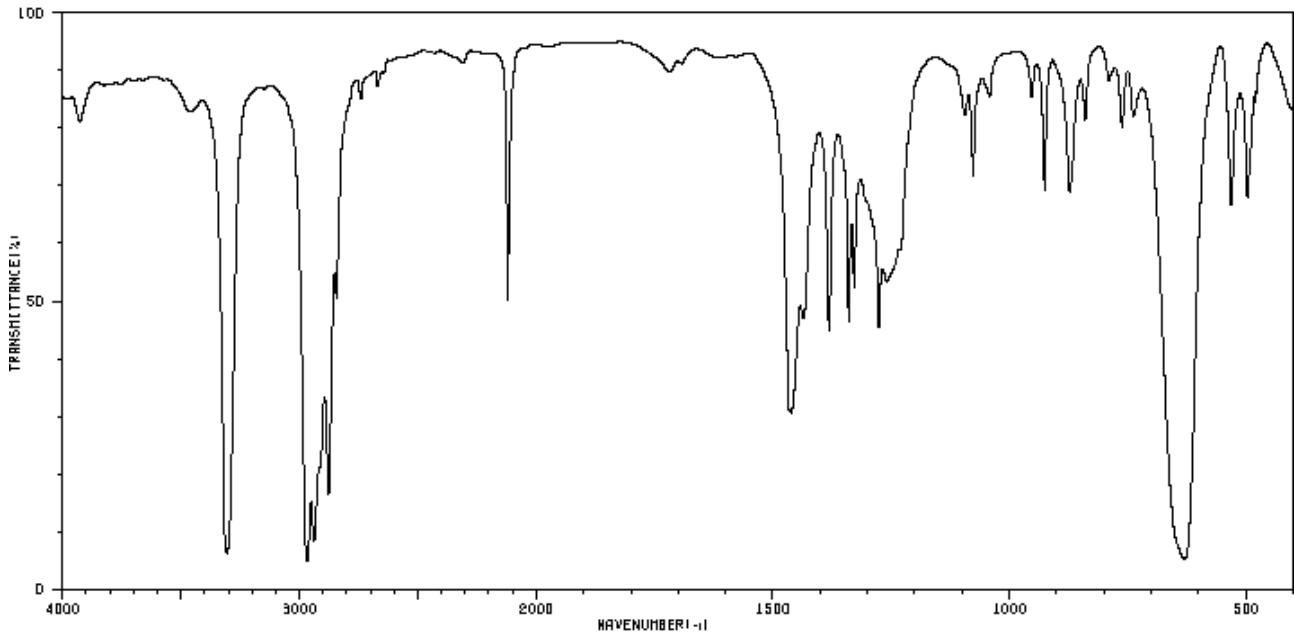
Spettro C-NMR:



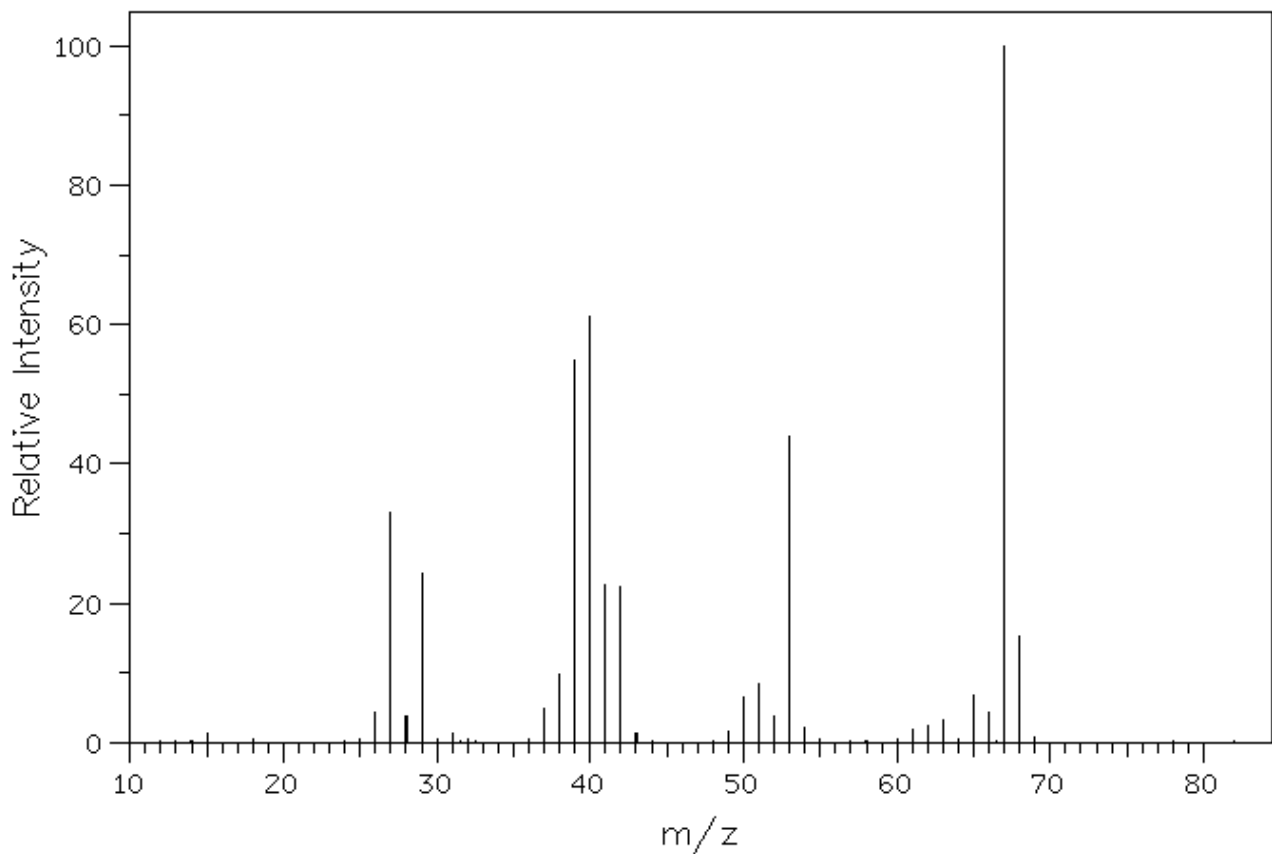
Spettroscopia: problema n° 8

Determinate la struttura della molecola incognita a cui si riferiscono i seguenti spettri:

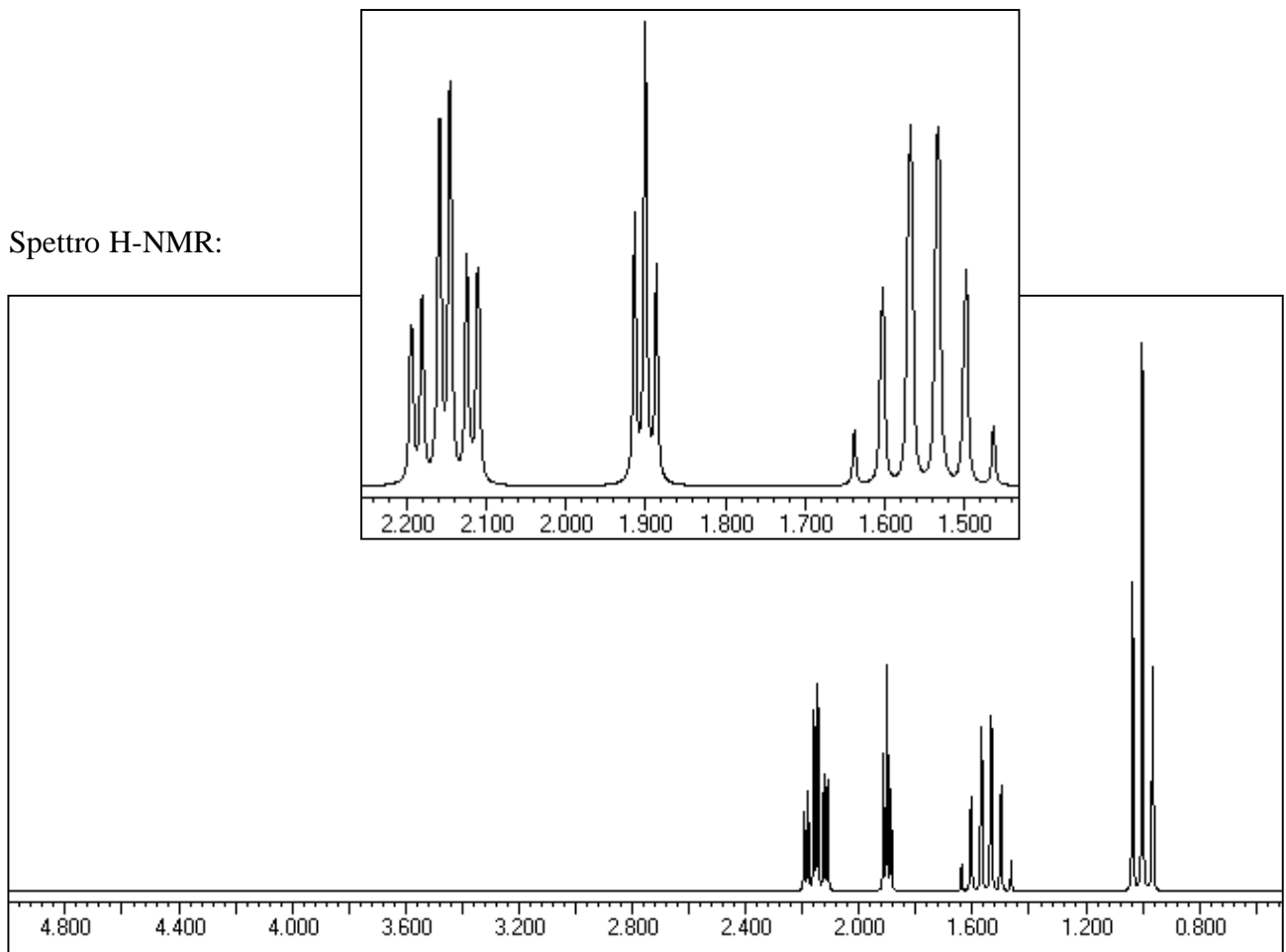
Spettro IR:



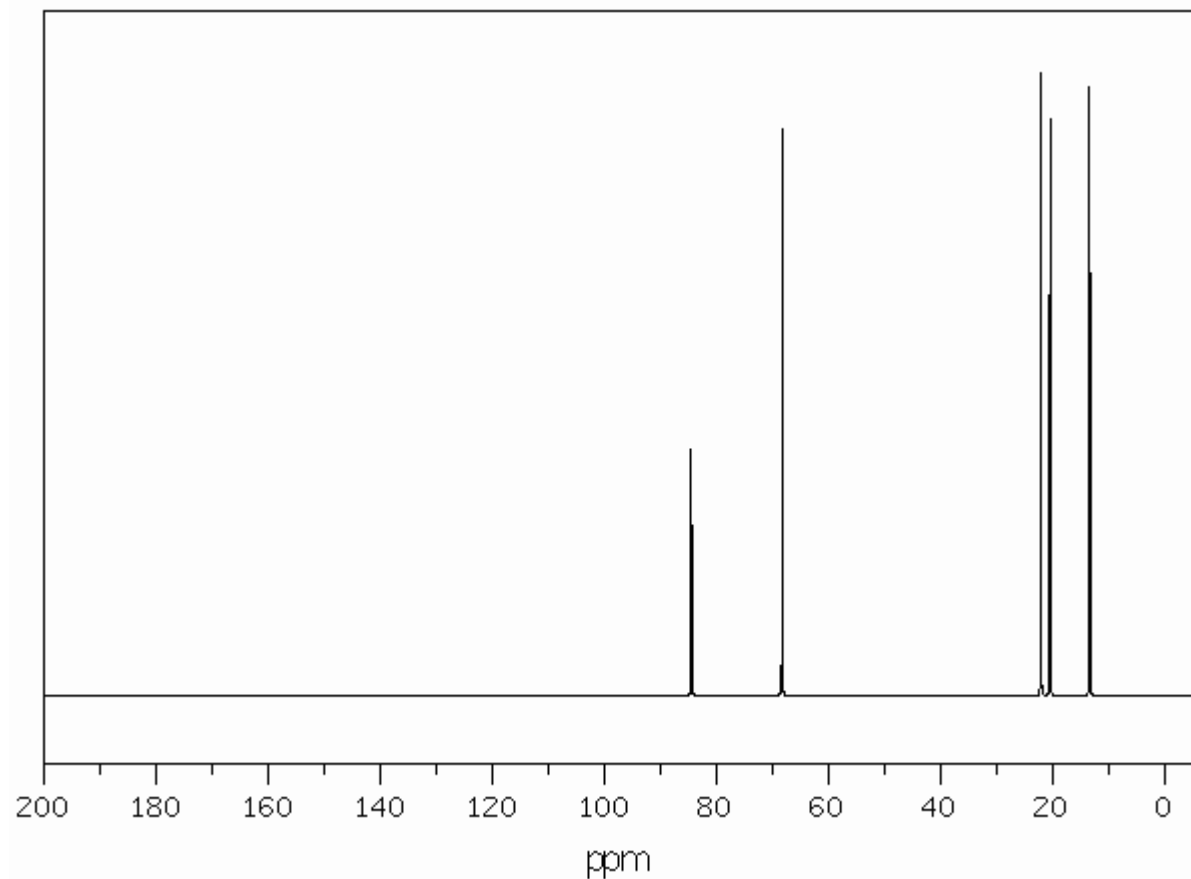
Spettro di Massa:



Spettro H-NMR:



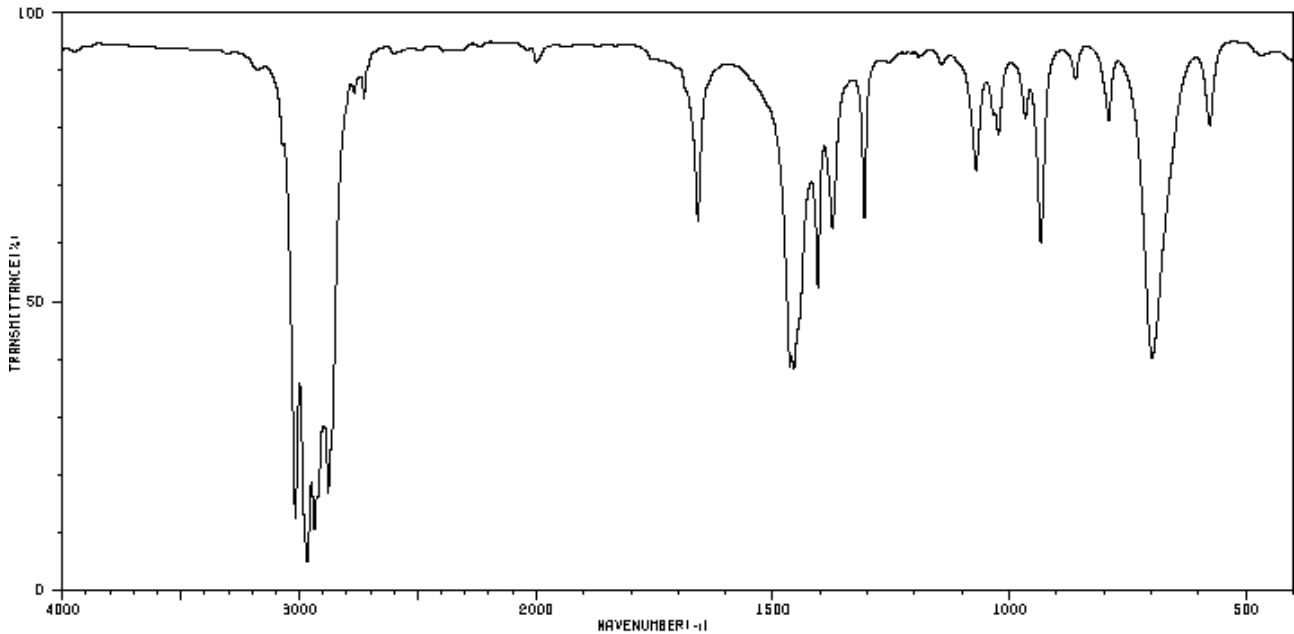
Spettro C-NMR:



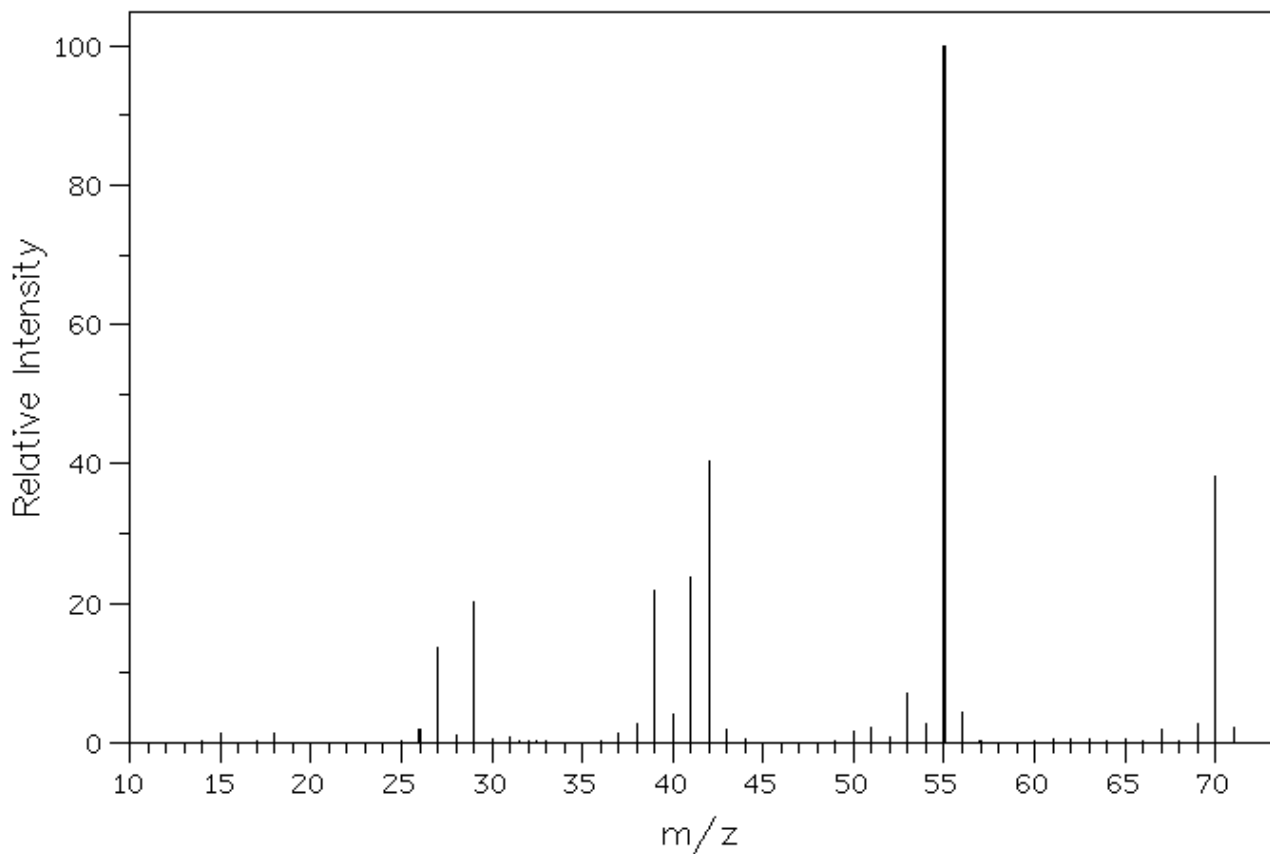
Spettroscopia: problema n° 9

Determinate la struttura della molecola incognita a cui si riferiscono i seguenti spettri:

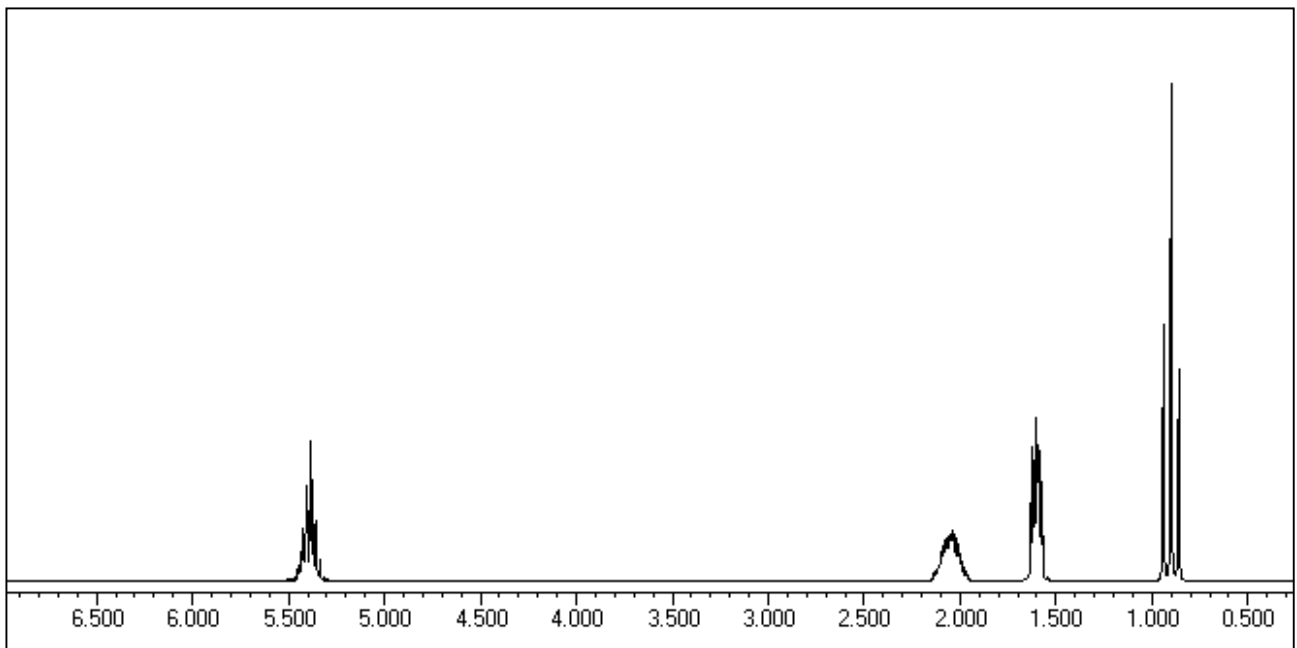
Spettro IR:



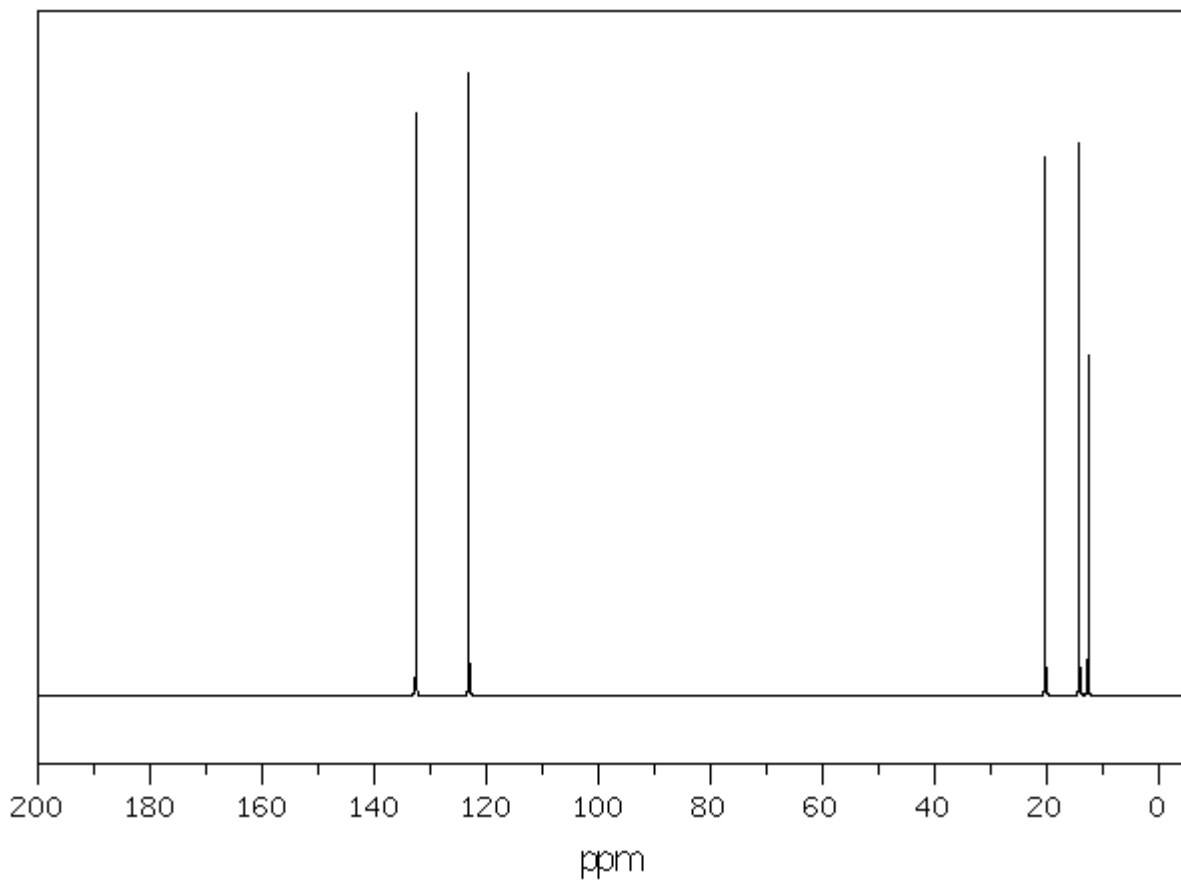
Spettro di Massa:



Spettro H-NMR:



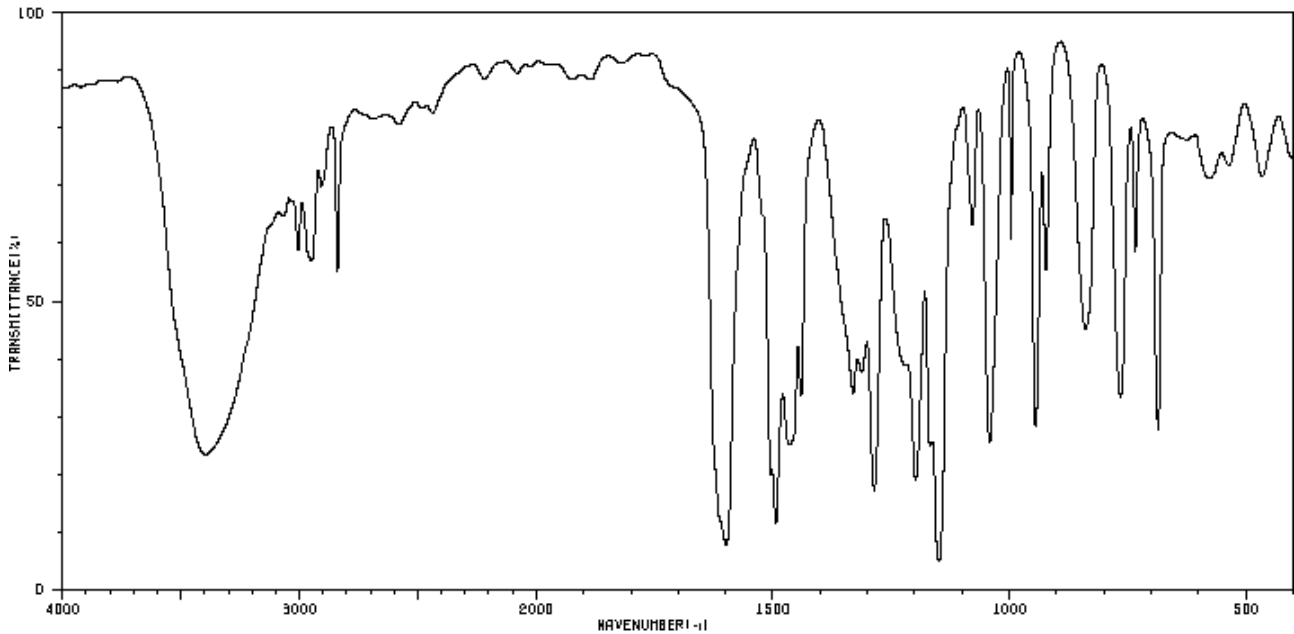
Spettro C-NMR:



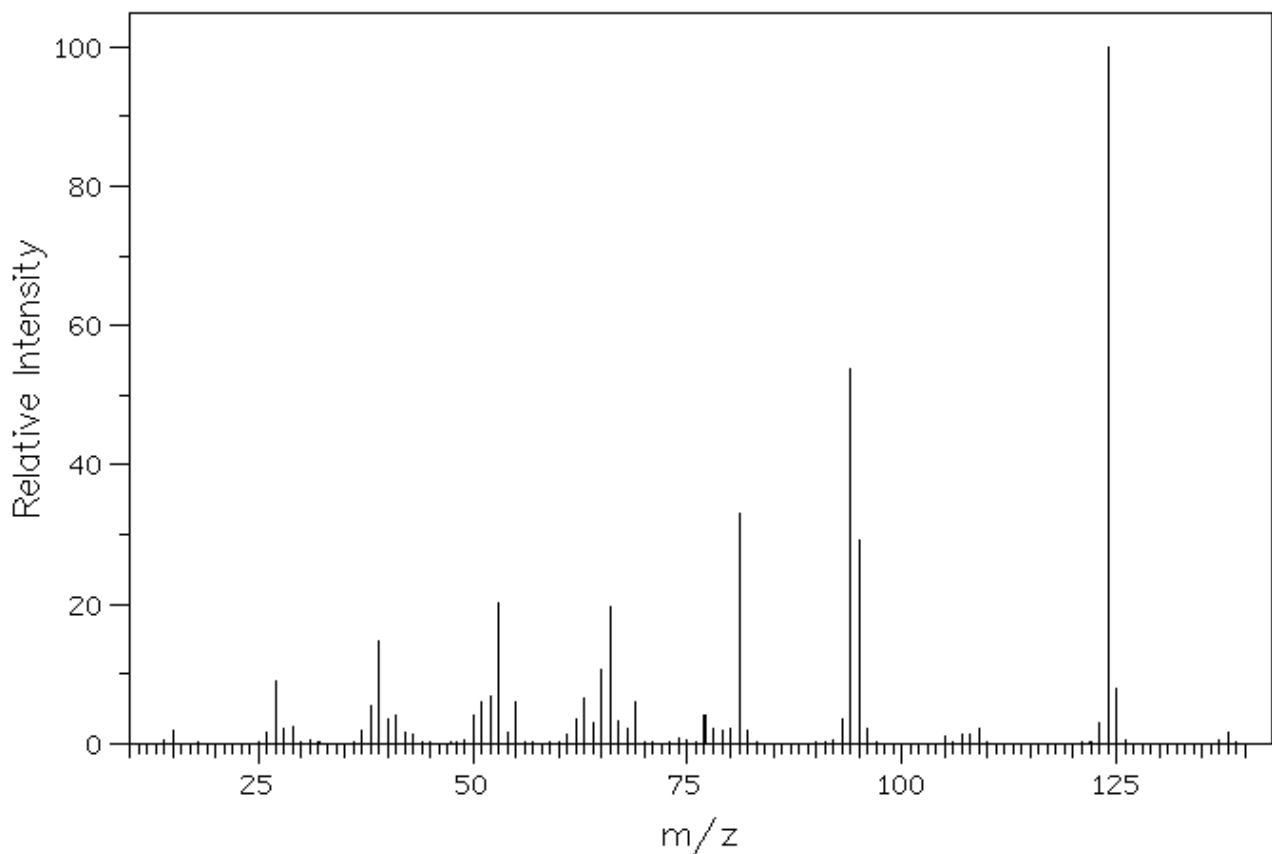
Spettroscopia: problema n° 10

Determinate la struttura della molecola incognita a cui si riferiscono i seguenti spettri:

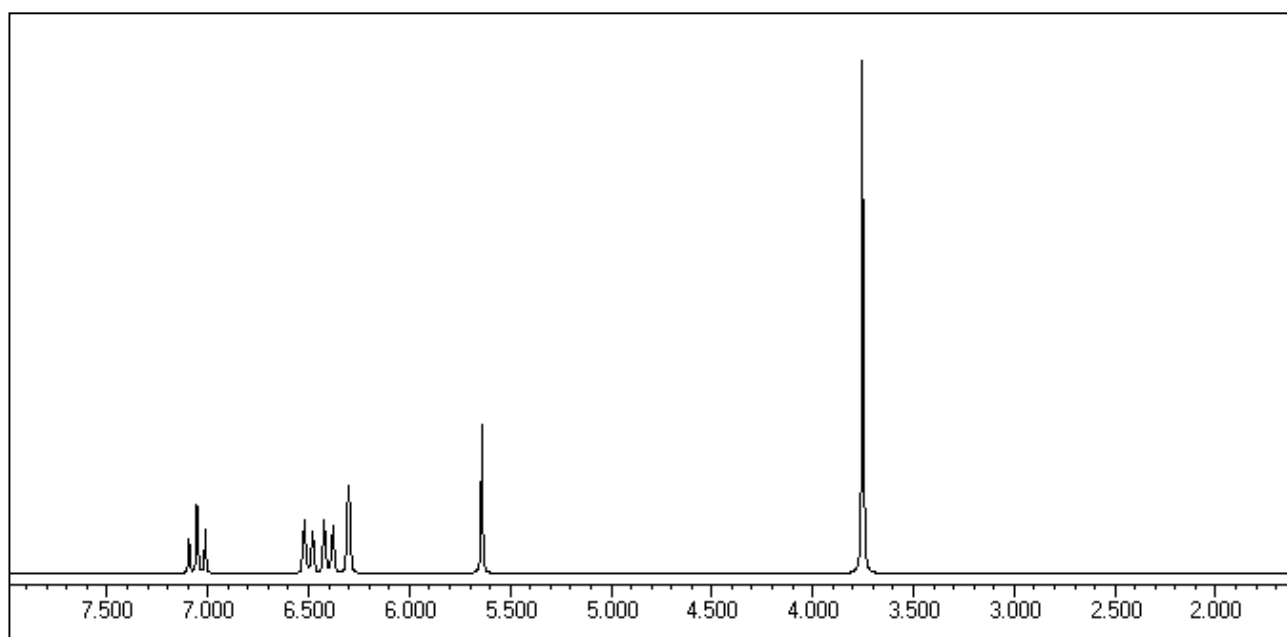
Spettro IR:



Spettro di Massa:



Spettro H-NMR:



Spettro C-NMR:

