

# UE5 C : Sciences Analytiques – Techniques spectrale



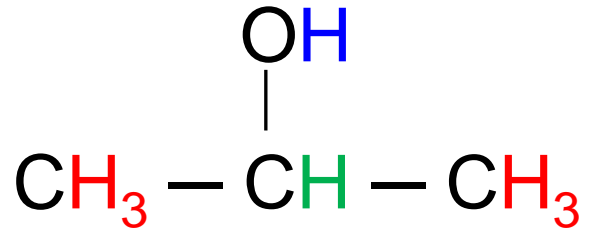
Pr. A. TFAYLI

Enseignements dirigés

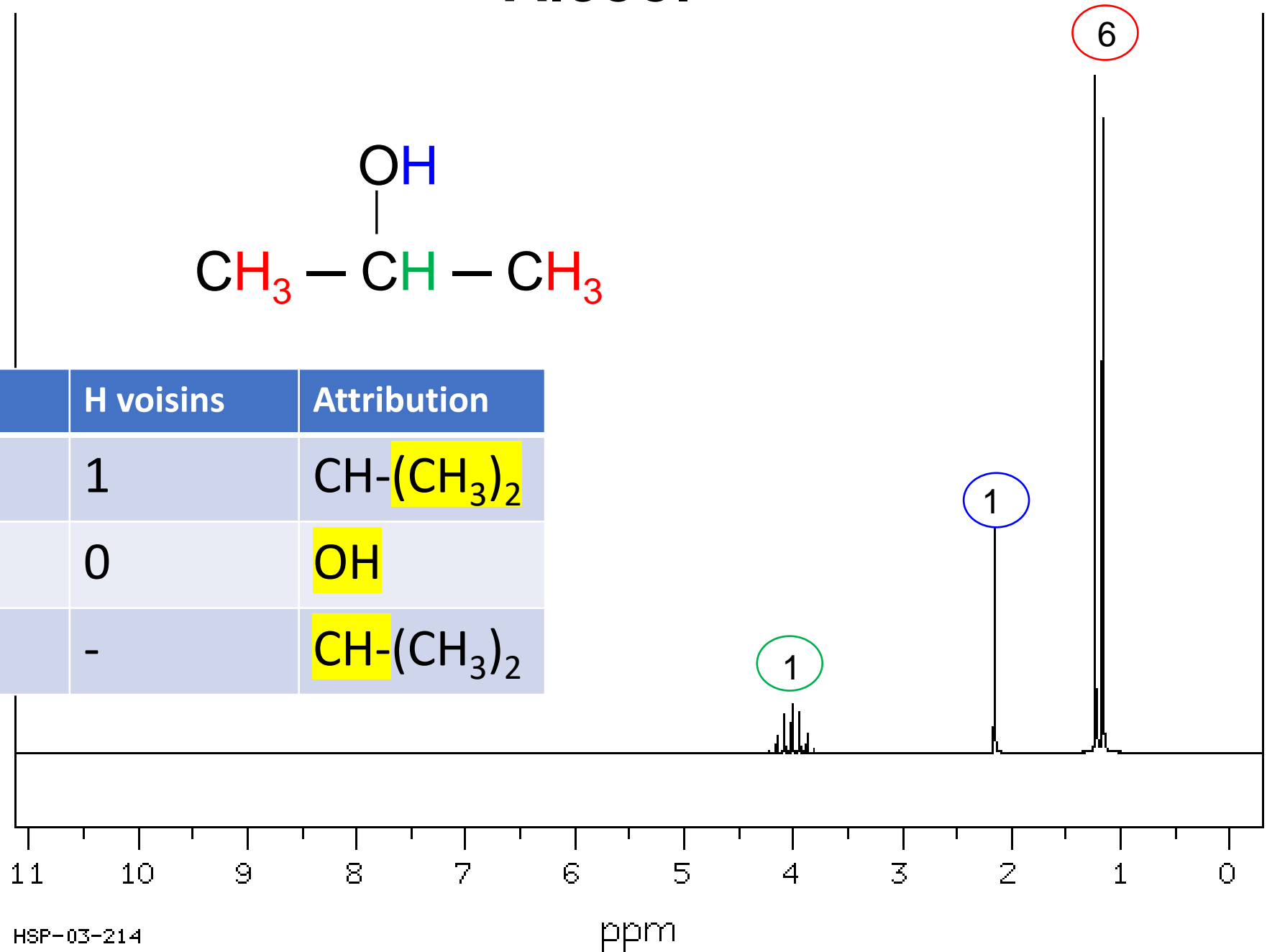
Pr. C. LAUGEL, Dr. I. LE POTIER, Dr. D. LIBONG, Dr. R. MICHAEL-JUBELI, Dr. S. TFAILI,  
Dr. T. TRAN MAIGNAN, Dr. J. ZHOU

# Alcool

Ex1: C<sub>3</sub>H<sub>8</sub>O

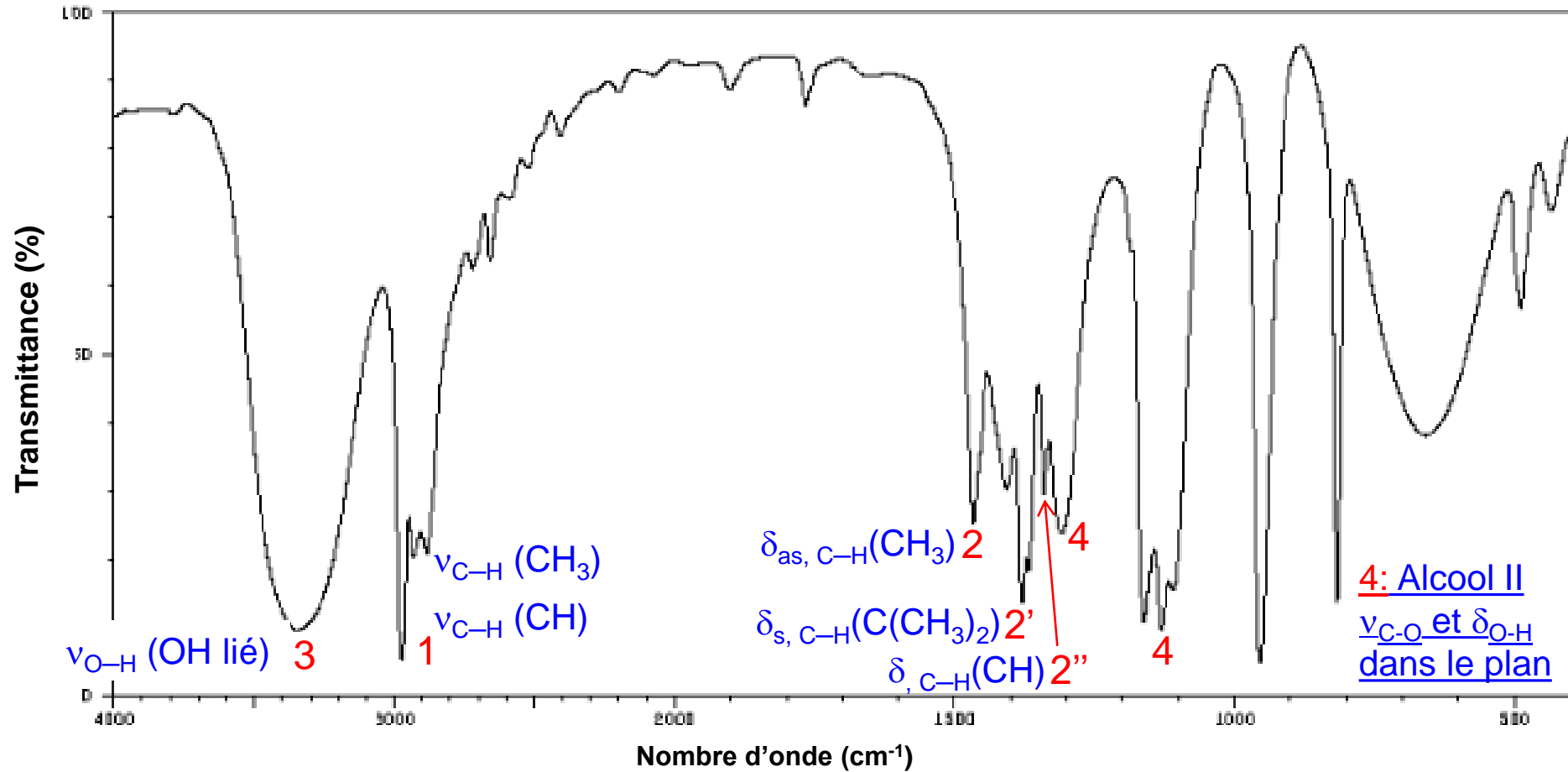


ppm	I	multiplicité	H voisins	Attribution
1.1	6	d	1	CH-(CH <sub>3</sub> ) <sub>2</sub>
2.2	1	s	0	OH
4.0	1	m	-	CH-(CH <sub>3</sub> ) <sub>2</sub>



# Alcool

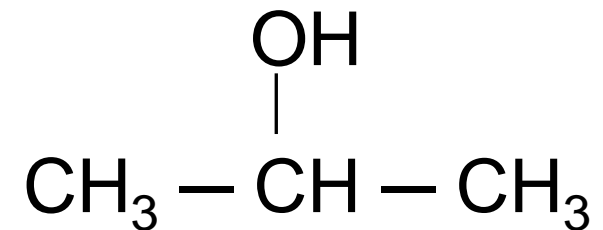
Ex1: C<sub>3</sub>H<sub>8</sub>O



1: 2975-2950 cm<sup>-1</sup>  
2885-2860 cm<sup>-1</sup>  
2900-2880 cm<sup>-1</sup>

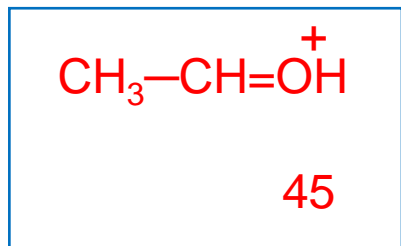
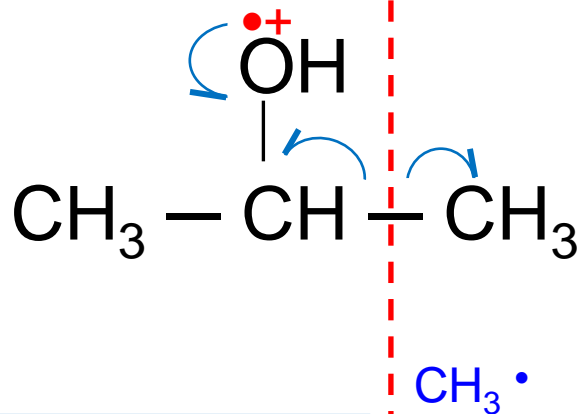
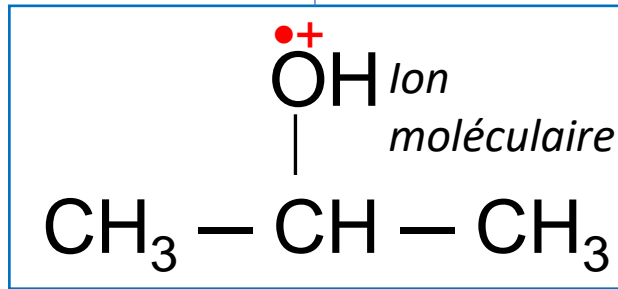
2: 1470-1435 cm<sup>-1</sup>  
2': 1385-1380 cm<sup>-1</sup>  
1370-1365 cm<sup>-1</sup>  
2'': ~1340 cm<sup>-1</sup>

3: 3550-3450 cm<sup>-1</sup> ou 3400-3230 cm<sup>-1</sup>  
4: 1120-1030 cm<sup>-1</sup>  
1350-1260 cm<sup>-1</sup>

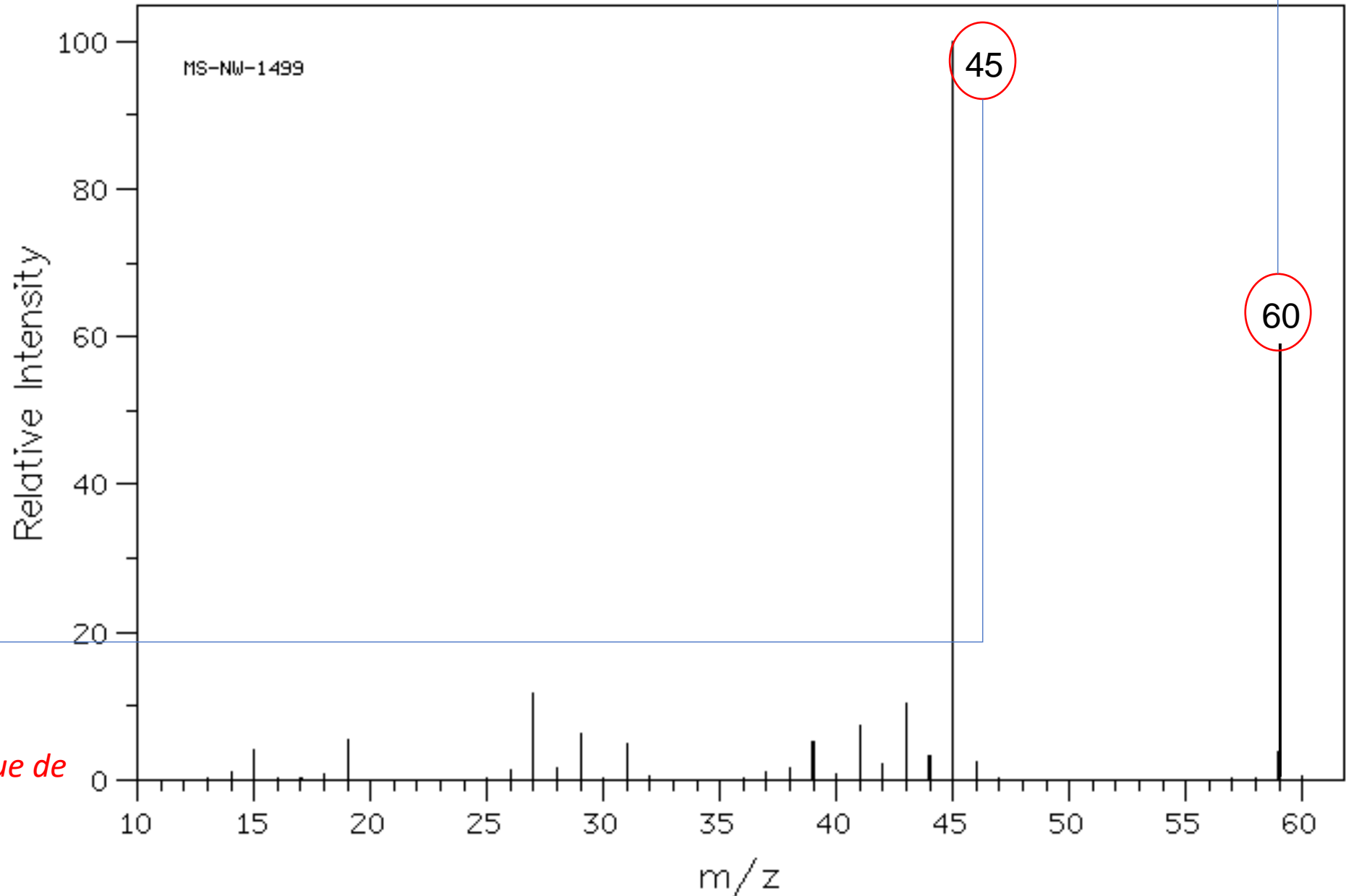


# Ex1: C<sub>3</sub>H<sub>8</sub>O

# Alcool



*Frag. prim., rupture homolytique de la liaison C-C en  $\alpha$*

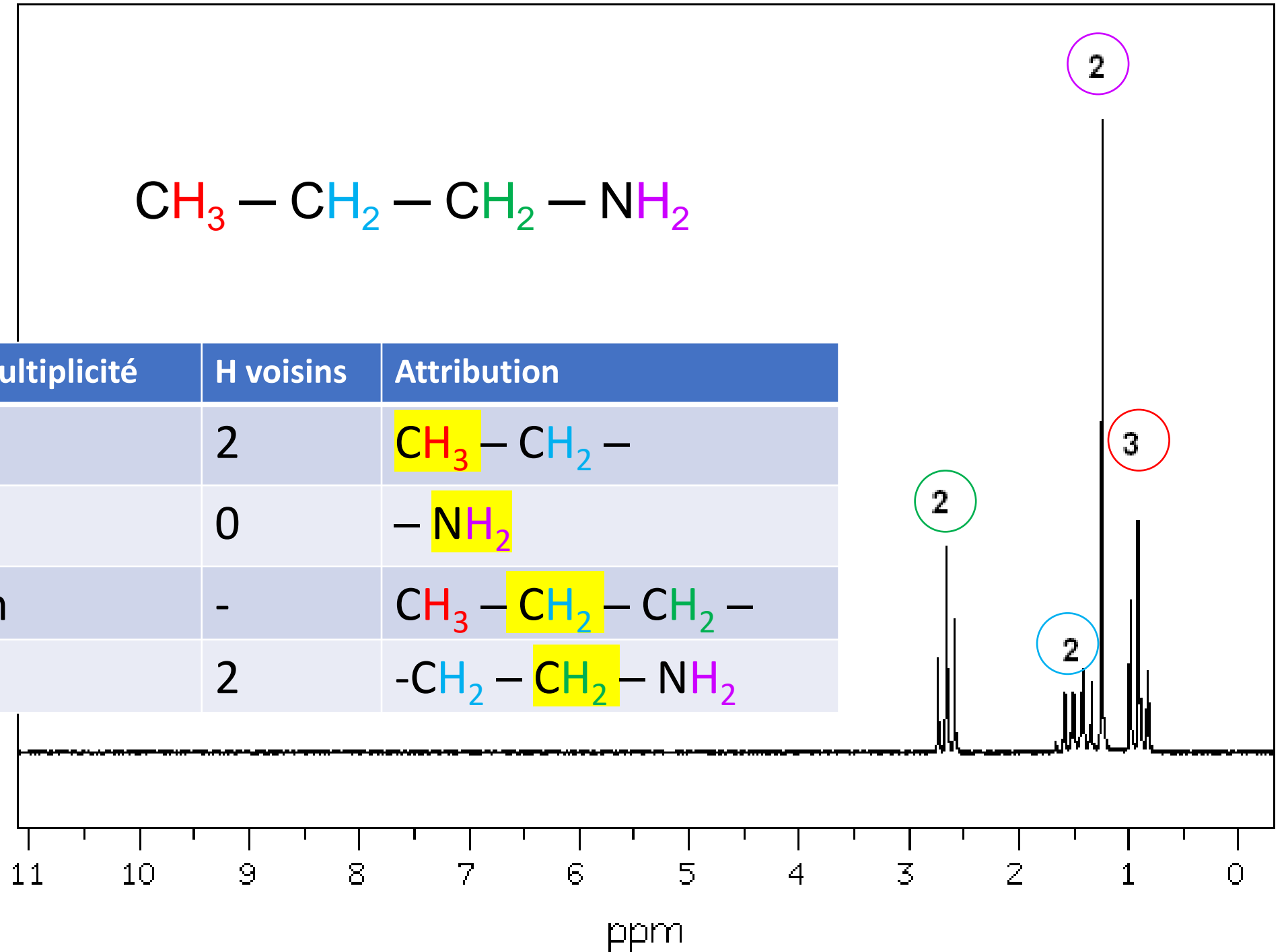


# Amine

Ex2: C<sub>3</sub>H<sub>9</sub>N

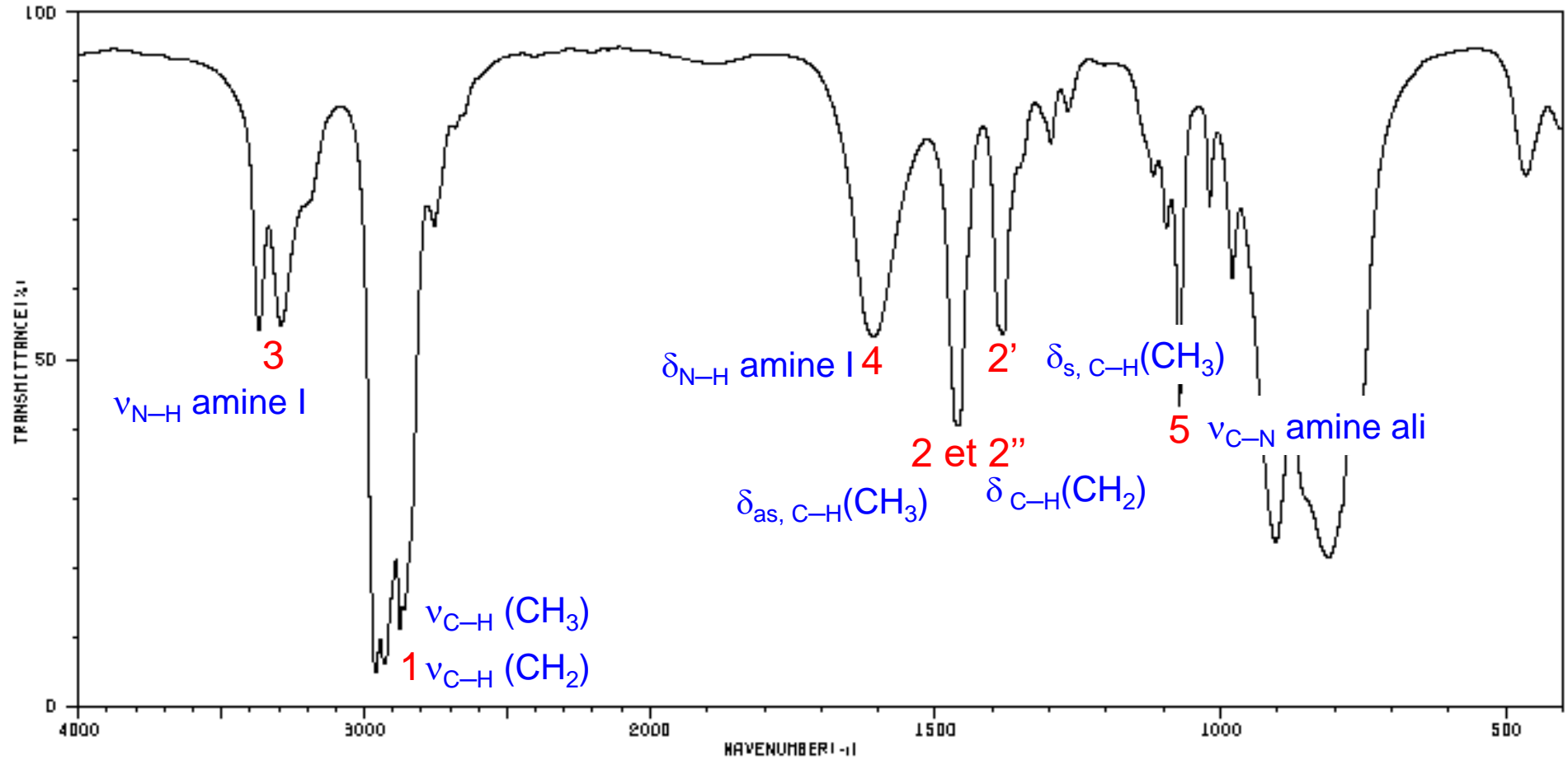
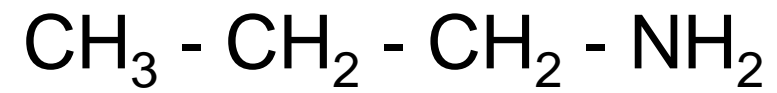


ppm	I	multiplicité	H voisins	Attribution
0.9	3	t	2	CH <sub>3</sub> - CH <sub>2</sub> -
1.2	2	s	0	- NH <sub>2</sub>
1.5	2	m	-	CH <sub>3</sub> - CH <sub>2</sub> - CH <sub>2</sub> -
2.6	2	t	2	- CH <sub>2</sub> - CH <sub>2</sub> - NH <sub>2</sub>



# Amine

Ex2: C<sub>3</sub>H<sub>9</sub>N



1: 2975-2950 cm<sup>-1</sup>  
2885-2860 cm<sup>-1</sup>  
  
2940-2915 cm<sup>-1</sup>  
2870-2845 cm<sup>-1</sup>

2: 1470-1435 cm<sup>-1</sup>  
  
2': 1385-1370 cm<sup>-1</sup>  
  
2'': 1480-1440 cm<sup>-1</sup>

3: 3500-3300 cm<sup>-1</sup>  
2 bandes  
  
4: 1650-1580 cm<sup>-1</sup>  
forte

5: 1220-1020 cm<sup>-1</sup>

# Amine

Ex2: C<sub>3</sub>H<sub>9</sub>N

