

MOLECULAR ION PEAK

- M^+
- Can be used to determine molecular mass of an organic molecule

M+1 PEAK

- One unit beyond M^+ peak
- Arises from the presence of C-13

FRAGMENT IONS

- CH_3^+ has m/z value of 15
- $C_2H_5^+$ has m/z value 29
- $C_3H_7^+$ has m/z value 43
- $C_4H_9^+$ has m/z value 57
- OH^+ has m/z value 17

FRAGMENTATION

- Positive ion split into pieces
- Because of excess energy from ionisation process

AS MECHANISMS

- Alkane with a halogen
- Alkene with an electrophile
- Halogenoalkane with a nucleophile

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