



the exact molecular meight of the semple

d typically mass spectionetres can be used to identify unknown compounds via molucular weight delia mination, to quantify tenoum compounds and to determine structure and chemical peoperties of Molecules.

these three components.

Dianisation source.

@ mass analyzer.

(ii) ion detection system.

- The ionisation source: molecules are converted to gas phase ions, so that they can be moved about and manipulated by the external electric and magnetic field.
- The mass analyses: once ranized the rows are separated according to mass to Charge ratios, the mass analyses often works in concerned with the van detection system.
 - 3 ion detection system: The separated ions are then measured and sent to a data system where the mass to charge ratios are stored together along with their relative abundance.
- A mass spectrum is simply the mass to Charge ration of the is us present in a semple plotted against their Interesties.
- a Each peak in a mass spectrum shows a component of unique mass to Charge in the semple and heights of the peaks per shows the relative Abundance of the various components in the sample.

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