

Shimadzu GC-2010 Gas Chromatograph-Mass Spectrometer



This instrument will separate and analyze a mixture of components. The mixture is injected into the gas chromatograph and vaporized. The vaporized mixture passes through a specially designed column whereby the components of the mixture emerge at different times resulting in separation. The individual components are then analyzed and identified in the mass spectrometer. A mass spectrometer bombards a sample with high energy electrons breaking a molecule apart into characteristic charged masses that are collected and identified via magnets as seen in the figure below.

