Alternative ionization technologies for GC/MS/MS

In most cases, EI ionization with 70eV is the preferred ionization mode for GCMS. However, traditional ionization conditions often lead to strong fragmentation of the target molecules – sometimes producing 100's of fragments. In many cases, these fragments will be very small (>100amu) – thus not significant for identification of the target compound and not suited as parent ion for MS/MS experiments. In such cases, variation of the classical ionization conditions may be used to produce larger ions, thus enhancing sensitivity and selectivity of the resulting GC/MS method.

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