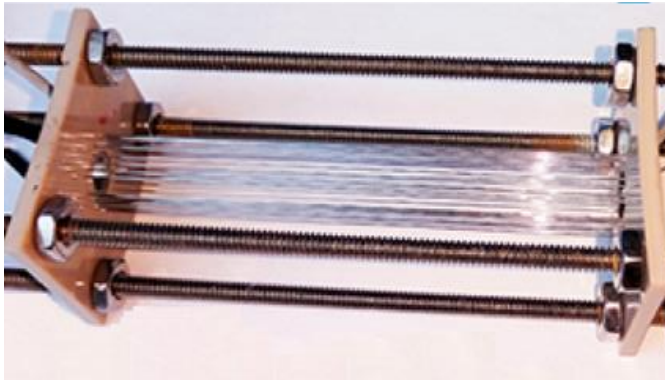
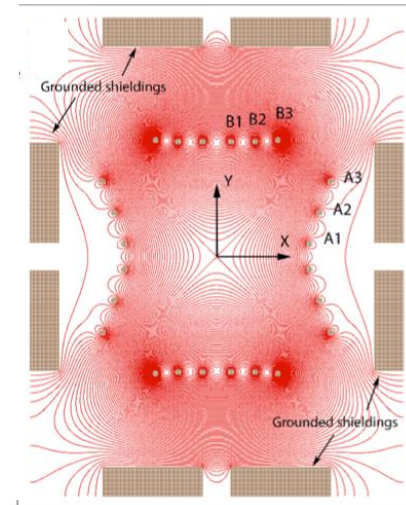


Wire Ion Trap Mass Spectrometer: Strong Performance on a Tight Budget

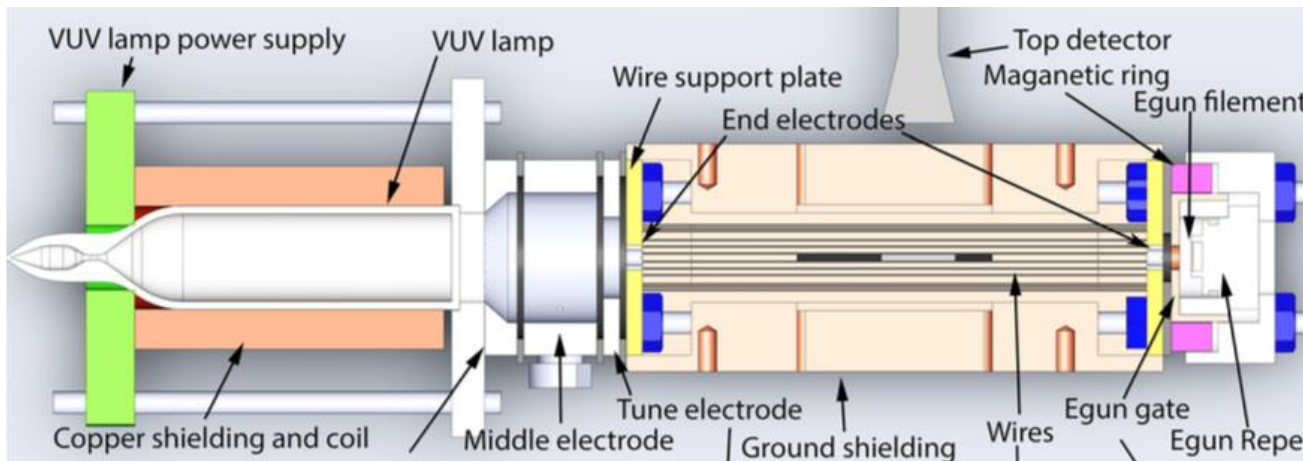
Qinghao Wu, Ailin Li, Yuan Tian, Trevor Decker, Aaron R. Hawkins, Daniel E. Austin



Assembled linear wire ion trap (LWIT)



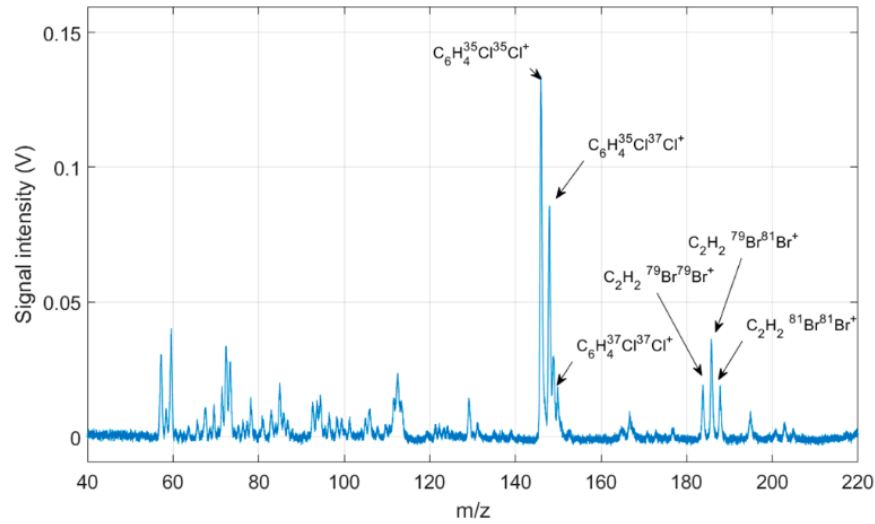
Cross section of LWIT in simulation



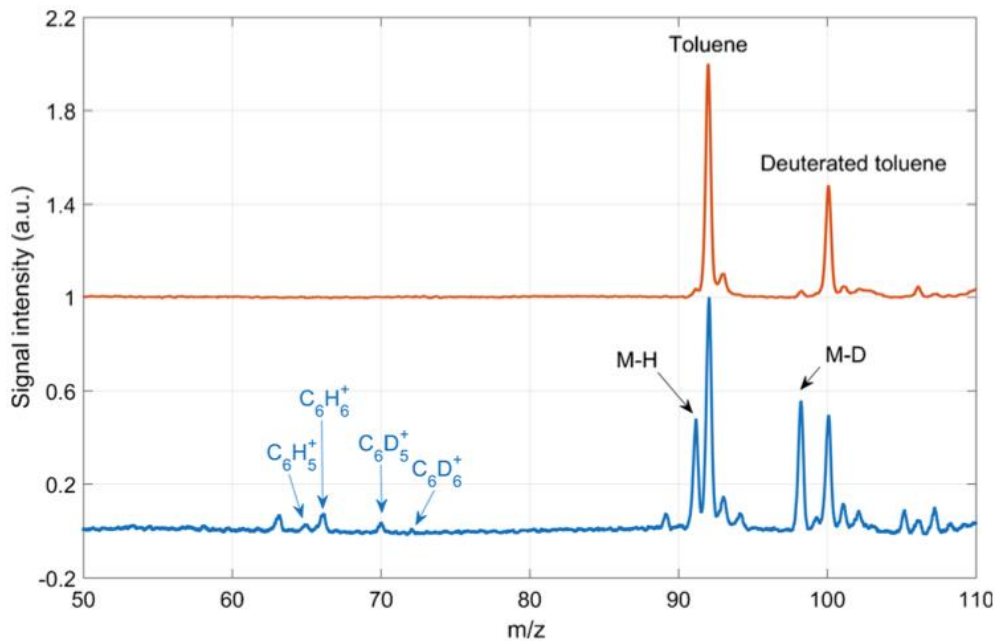
LWIT with single-photo ionization and electron ionization source



Results



EI mass spectrum of a mixture of 1,2-dichlorobenzene and tetrabromoethane.



Comparison of mass spectra between VUV lamp and EI ion source. The SPI mass spectrum is shown on the top and EI mass spectrum is shown on the bottom. The mass spectra were an average of 50 scans.