

Accurate Mass – Advanced Qualitative Information for the Identification of Unknowns

IsleChem continues to enhance its Analytical Service Group's capability by the addition of an Accurate Mass/High Resolution Mass Spectrometer. When interfaced with a Gas Chromatograph, the Agilent 7200B Quadrupole-Time of Flight (Q-TOF) Mass Spectrometer measures masses to the nearest 0.0001 Dalton.

This information in combination with a selectable EI/CI ionization source yields characteristic fragmentation pattern and assignment of the molecular ion.

For unknown identifications EI spectrum can be searched against NIST Libraries to provide matches with reference spectra. When practicing unique chemical synthesis/discovery, not all compounds observed in a chromatogram are contained in such databases. Accurate mass data provides unequivocal deduction of a compound's molecular weight in which an empirical formula can be deduced.

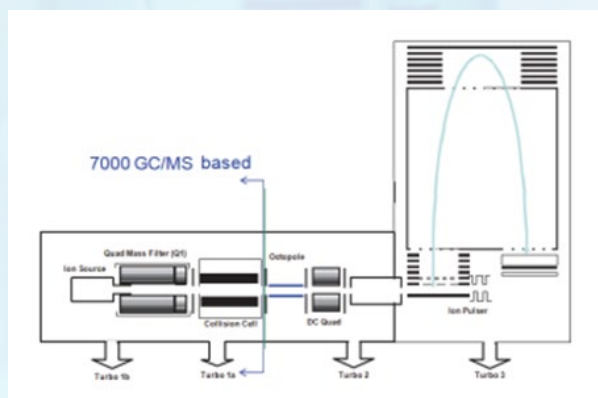
Applications

- Chemical forensics, safety and research
- Environmental contaminants studies
- Natural product research
- Energy research and petrochemicals
- Polymer additives
- Reverse engineering of competitive products
- Homeland security
- Quantification of trace organic compounds in complex matrices



Features

- Interface with a 7890B GC
- Removable Ion Source – fast EI/CI change over
- Fast electronics, allowing fast sampling rates
- Gerstel Multi-Purpose Sampler
- Automated sample introduction using liquid, heated headspace (HS/GC) or solid phase micro extraction (SPME) techniques



Courtesy of Agilent Technologies



https://www.islechem.com/islechem_analytical_services.php
analyticalservices@aceto.com