

# Chemical Ionization Source

Available for the Pegasus GC-HRT<sup>+</sup>

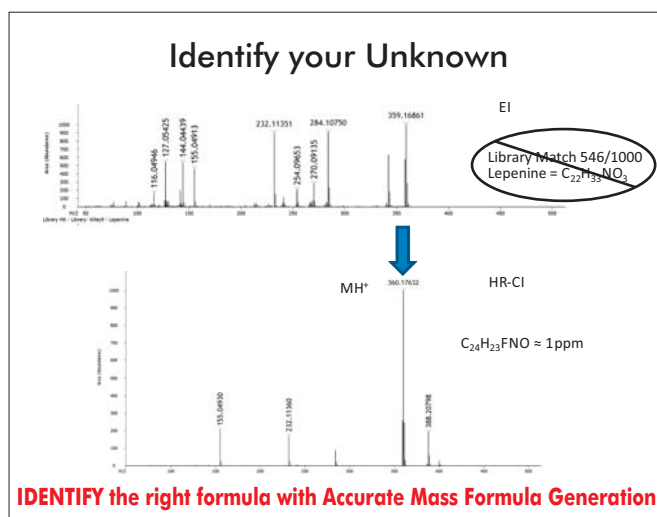
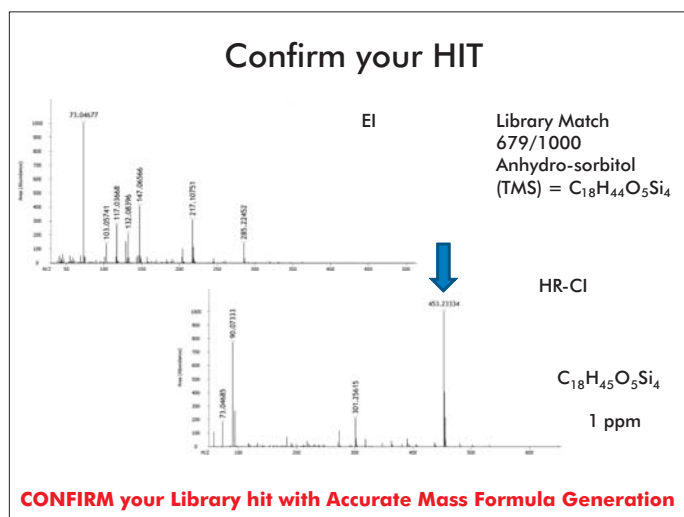
Confirm your unknowns with accurate mass chemical ionization (HR-CI), a new option for the Pegasus GC-HRT<sup>+</sup>. The Pegasus GC-HRT<sup>+</sup> is available with both electron ionization (EI) and HR-CI sources, offering you the option of comparison with classic library spectra (EI) and superior preservation of the molecular ion (HR-CI).



Pegasus GC-HRT<sup>+</sup> (High Resolution TOFMS)

## Benefits of Positive ion Chemical Ionization

- Confirmation of molecular ions
- More confidence in EI library matches
- Propose chemical formulae for unknown or novel compounds
- Reduce possible formulae with accurate mass data



The spectral transformations illustrated above compare EI and HR-CI. The left side is an example from a mouse liver extract, where soft ionization allows for confident confirmation of a marker in glycemic variability for individuals with type 2 diabetes. The right side demonstrates how HR-CI is ideal for forensic drug analysis, as drugs are constantly evolving and often not present in commercially available libraries.

## Standard Features

- Benzophenone 1 pg sensitivity
- Automated reagent gas flow optimization
- Support for standard CI gases: methane, isobutane, and ammonia, PLUS "choose your own"
- Uncompromised MS performance: speed, accuracy and resolution all at the same time, regardless of intensity

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