It is now possible to achieve high mass accuracy on an Agilent 5977A Series GC/MSD using Cerno Bioscience MassWorks’ novel MS calibration technology. Accurate mass molecular formula generation just became significantly more affordable for environmental, forensic, food safety and metabolomics laboratories!

Meet your demands for accurate mass compound identification with GC/MSD

MassWorks combines an innovative peak shape calibration and m/z assignment algorithm with the stability and robustness of the Agilent 5977A Series GC/MSD to deliver a uniquely powerful, easy to use data analysis tool.

- Easy calibration setup with PFTBA tune gas (see Application Note 5990-4966EN)
- Easy push-button calibration using AutoCal
- Increased mass accuracy by up to 100x
- Spectral accuracy for high-confidence compound ID
- Unknown identification with or without a compound library
- Orthogonal confirmation for Scan based quantitative analysis
- A cost-effective and easy solution to elemental composition determination

An Agilent 5977A Series GC/MSD with MassWorks is a powerful, easy to use, and affordable accurate mass measurement tool.

- Increased mass accuracy by up to 100x
- Easy push-button calibration using AutoCal
- Easy to install and use

Agilent Technologies
FULLY AUTOMATED – EASY TO USE

Accurate mass analysis that works seamlessly with your Agilent GC/MSD

PFTBA tune gas availability on a GC/MSD system allows for easy acquisition of the raw scan or profile mode data required to build the MassWorks calibration. The calibration data is then used to assign appropriate accurate masses to analyte molecular and fragment ions.

Uniquely available on GC/MSD systems, the AutoCal feature makes the entire process even easier when a reference PFTBA spectrum is acquired within the same run.

- MassWorks can be launched from within MSD ChemStation Data Analysis through a single added menu item
- MassWorks detects the presence of PFTBA peak in a TIC and automatically performs an AutoCal in a single step

Get the economic solution for accurate mass compound identification.

Learn more about Agilent 5977A Series GC/MSD with MassWorks at: agilent.com/chem/MassWorks

For technical and application support, provided by Cerno Bioscience, visit: cernobioscience.com

Applying the PFTBA calibration to OFN peak eluted at 3.25 minutes. The accurate monoisotope mass of OFN is found within 2 mDa of its exact mass. CLIPS elemental composition search correctly identifies its elemental composition with the highest spectral accuracy of 99.7% where its theoretical (green) and calibrated (red) mass spectrum is matched down to noise level.