The Power of GC-TOFMS
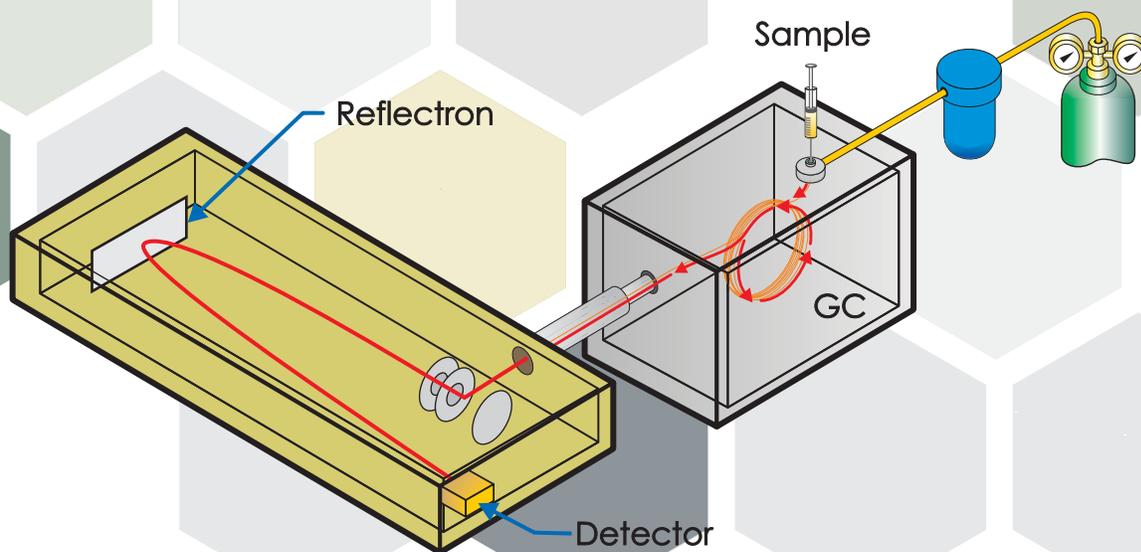
LECO

EMPOWERING RESULTS

Leading the Way in Complex Sample Analysis

Improve the quality of information in your lab, for improved productivity and efficiency, using GC-TOFMS solutions from LECO.

Diagram of GC-TOFMS Technology

Sample

Reflectron

GC

Detector

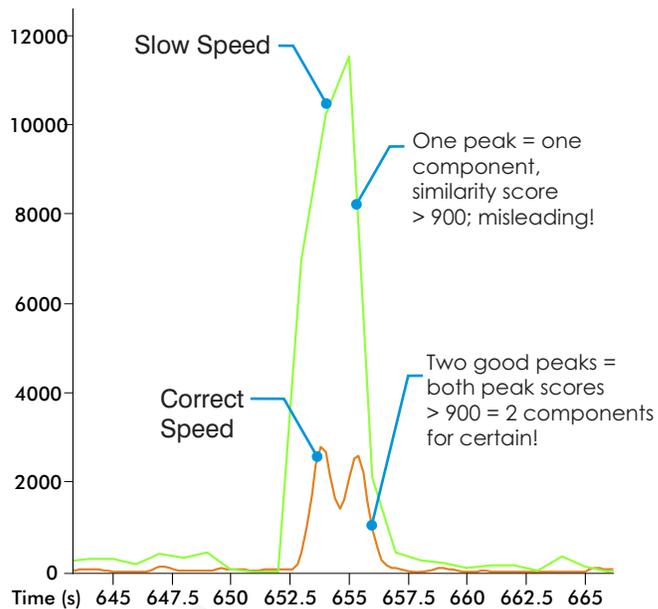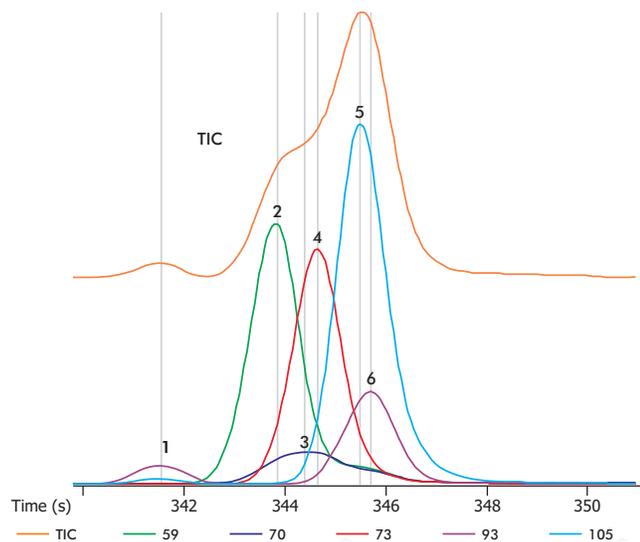# Acquisition Speed Drives Deconvolution

Find chemicals that are masked or hidden by matrix or coelution. Discover the existence of more relevant chemicals.

Deconvolution

No other GC-MS software delivers the power of deconvolution within a seamless software package.

Acquisition Speed

LECO GC-TOFMS provides the appropriate collection rate without distorting peak height or apex location.

Slow Speed

One peak = one component, similarity score > 900; misleading!

Correct Speed

Two good peaks = both peak scores > 900 = 2 components for certain!

TIC

Time (s)   342   344   346   348   350

— TIC   — 59   — 70   — 73   — 93   — 105

Time (s)   645   647.5   650   652.5   655   657.5   660   662.5   665

All the Masses, All the Time

Spectral profile is consistent across a peak, regardless of intensity. Time-array detection removes any concentration biasing.

TOFMS

GC Peak

Scanning MS
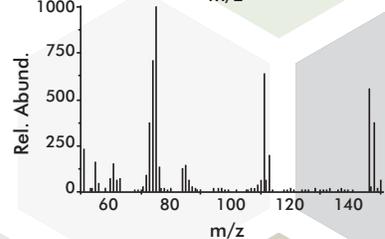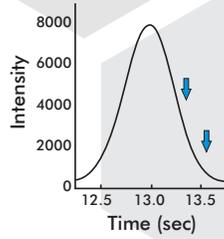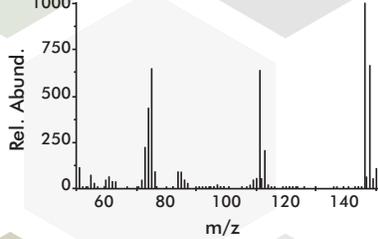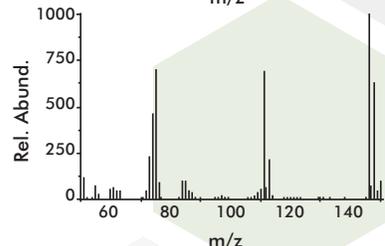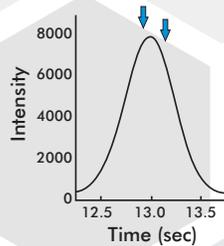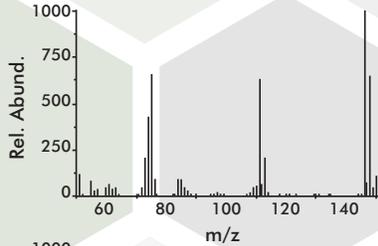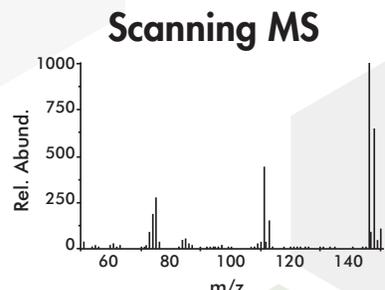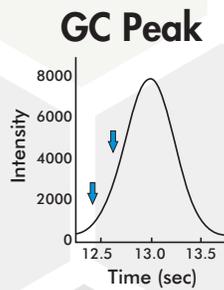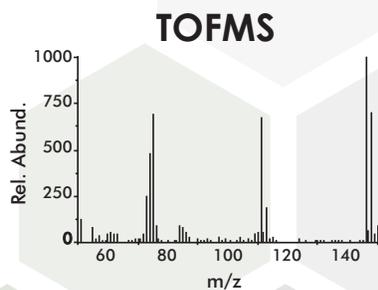
ChromaTOF® Brand Software

Our exclusive *ChromaTOF* brand software was designed with the productivity of today's labs in mind. It automates all standard qualitative and quantitative workflows into a seamless and easy-to-use Mass Spectrometry data package.
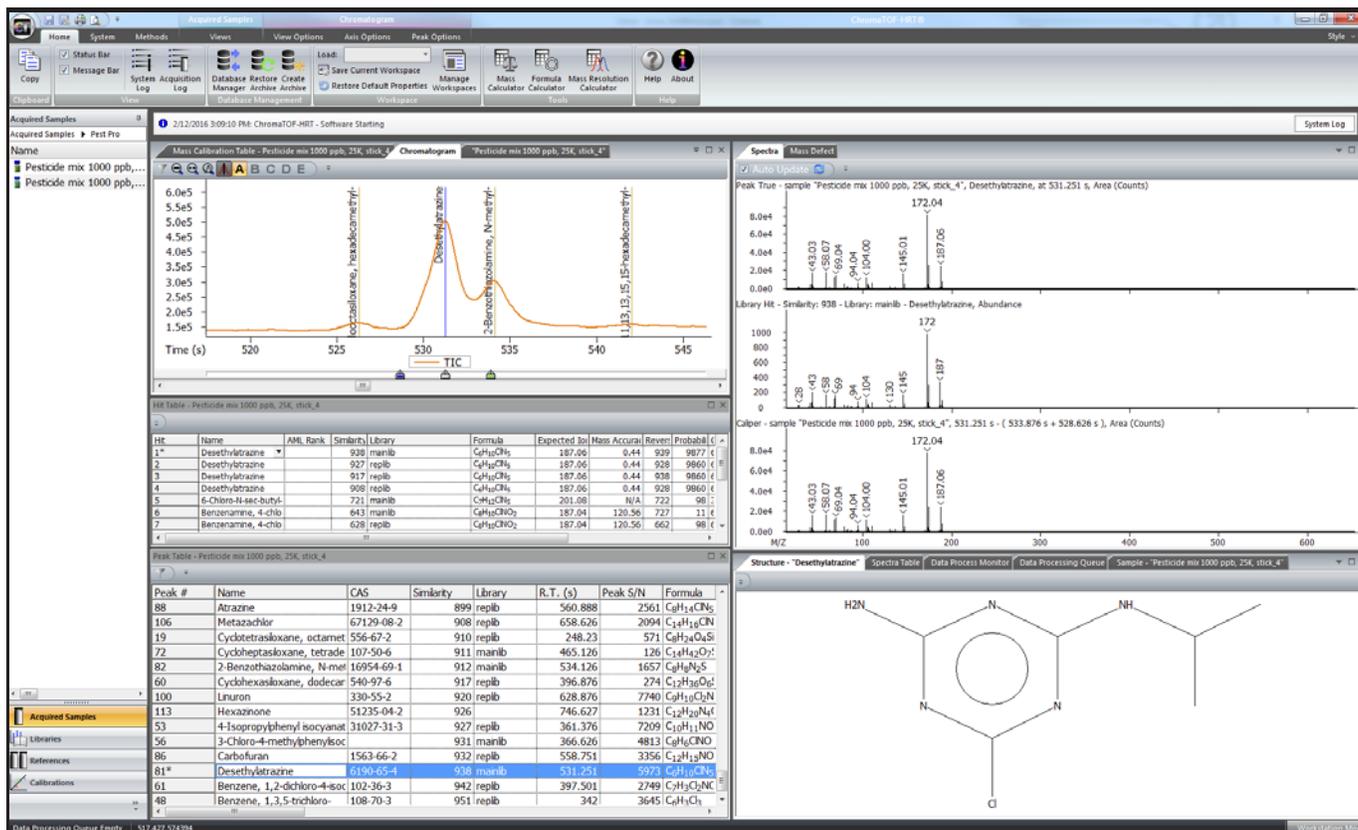
Features Include

- Automated Quick Nominal Deconvolution™ and High Resolution Deconvolution®
- Automated tuning and instrument setup
- An optional 21 CFR Part 11 compliance package
- Integrated control of Agilent 7890 GCs and of standard autoinjectors/autosamplers
- Library Search and Retention Index methods
- Customizable interface to tailor to your needs

ChromaTOF with Quality Assurance Package

Acquisition	Processing	Reports
Batches	Deconvolution	Templates
Tuning	Quantitation	Configurable
Setup	Library Search	Automated
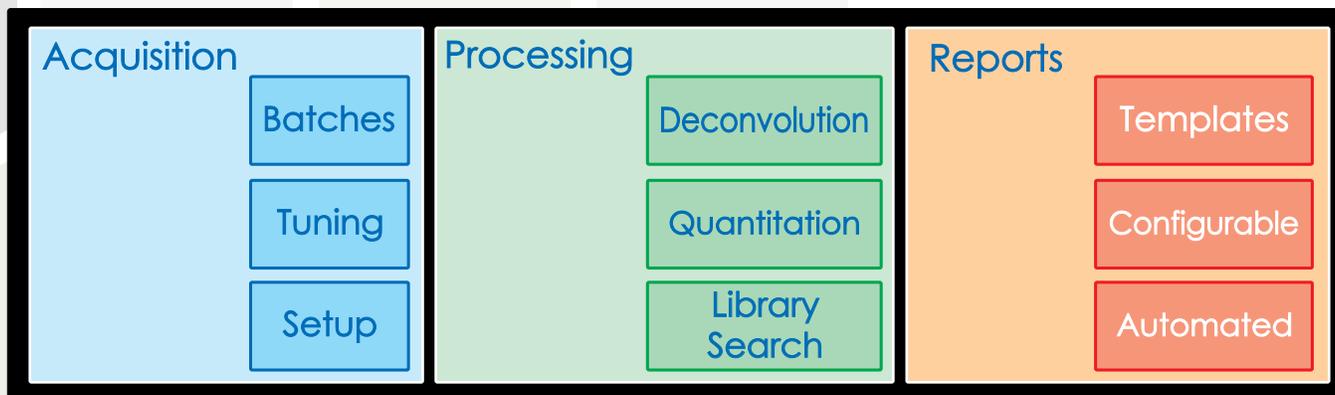
Identify More With Confidence

Unknowns don't stand a chance when you have the leader in GC-TOFMS in your corner. LECO products deliver the separation, accuracy, resolving power, deconvolution, and speed to characterize the most complex matrices.

Do you know what is in your sample? With our solutions, you'll have all the advantages you need to see the complete picture.

LECO
GC-TOFMS

Deconvolution
Sensitivity

Productivity
Reproducibility

Accurate Identification

Our Advantages

- Find and quantify an unlimited number of analytes, in every run, every time you use our GC-TOFMS.
- The market's leading deconvolution algorithms, yielding clean, high-quality spectra with higher quality spectral hits for more reliable results and more confident reports.
- Deconvolution ensures coeluting peaks and matrix interferences are drastically reduced, simplifying the chemical information produced from each sample.
- You will no longer suffer spectral distortion-based MS analysis.
- Purified spectra can be used for targeted compound identification.
- Complete historical record of mass spectra components for each sample for future data mining.
- Reliability and durability that have been tested over time.
- Low-maintenance source practically eliminates downtime.
- In today's laboratories, improved productivity and quality of results are directly related, providing:
  - Higher sample throughput
  - Better chemical information
  - Lower maintenance costs

A Commitment to Quality and Service

Technical Research Center and Application Lab

RJW Customer Experience Center

Our global network of sales/support includes over 25 subsidiaries worldwide, and is dedicated to customer service and satisfaction. Our commitment to quality is further underscored with ISO-9001:2015 certification. We conform to CE quality and safety specifications, fully testing instruments at our on-site Compliance Testing Center.

Training Classes

Get the most out of your LECO instrument with instrument-specific training classes offered from LECO. Typical classes feature a comprehensive overview of the theory of operation, method development, method optimization, and proper maintenance for each instrument class. A variety of advanced features are also presented, including calibration, user library creation, reporting, user fields, and optimization of both 1D and 2D chromatography. Classes also allow for networking opportunities and the ability to learn from other users of our GC-TOFMS, GCxGC, and GCxGC-TOFMS products. Attend classes at our facilities in St. Joseph, Michigan, or virtually anywhere with our online series of classes.

> "Everyone is very knowledgeable (brilliant, if I may say!) and willing to help with any questions/problems. I am amazed at and extremely happy with the high level of service LECO provides."
>
> *~LECO Customer and Class Participant*

LECO
EMPOWERING RESULTS

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