

PEGASUS® BT 4D

GC×GC TOFMS



LECO
EMPOWERING RESULTS

Improve All Parts of Your Analysis with GC×GC-TOFMS

Qualitative Power

The *Pegasus* BT 4D improves identification due to the increased chromatographic capabilities of GC×GC.

Quantitative Power

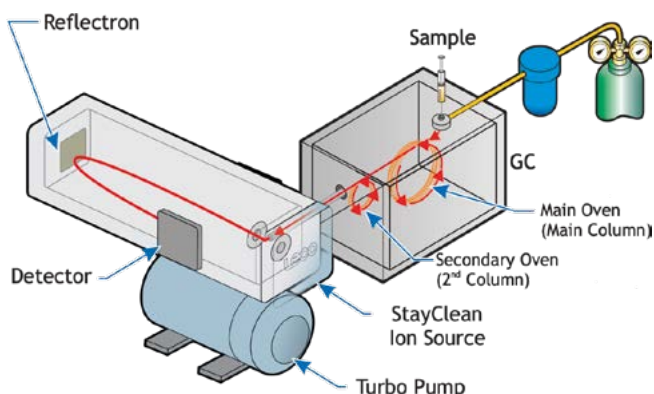
The *Pegasus* BT 4D provides lower detection limits by increasing signal and reducing noise.

With the *Pegasus* BT 4D you are able to perform qualitative and quantitative analysis all at once through a single run, which not only yields richer chemical data, but also gives you an overall increase in your laboratory's productivity and efficiency.



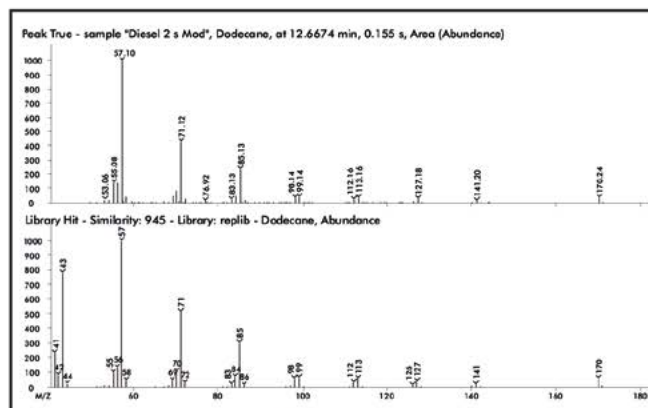
What Will GC×GC Do for You?

- Industry-leading sensitivity is improved with the addition of GC×GC, which enhances S/N and makes what was once unobserved a clearly identifiable analyte.
- You'll be able to identify more compounds, more efficiently with the power of GC×GC separation.
- The tried-and-tested reliability and durability of our StayClean® ion source eliminates the need for source cleaning, improving your productivity.
- Our ChromaTOF® brand software works seamlessly with the new Pegasus BT 4D to automatically process user data and remove the guesswork involved with analyte identification and quantification.
- You'll know what to expect from your data, through the power of chemically structured chromatograms.

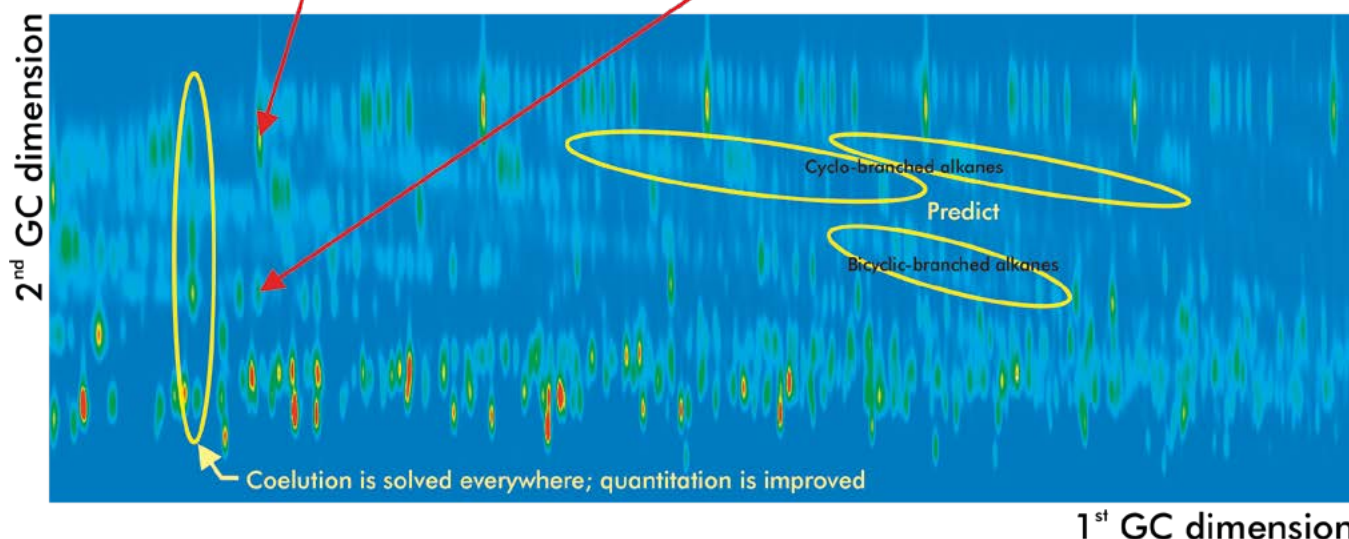
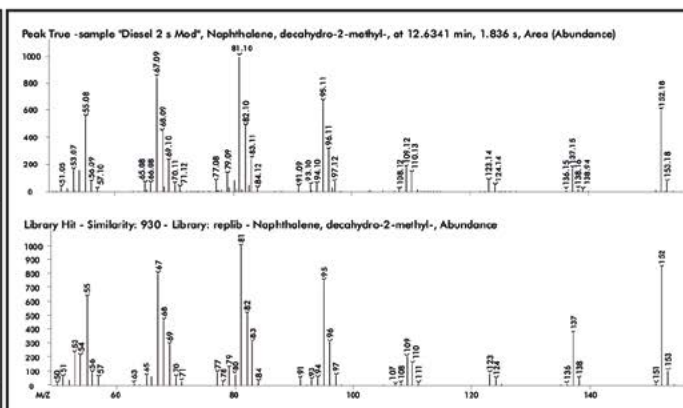


Predict, Quantify, and Identify What Is in Your Sample

Excellent Identification 1



Excellent Identification 2

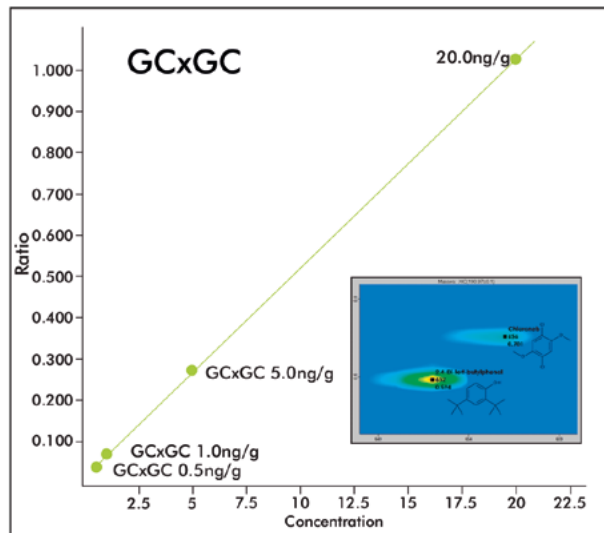
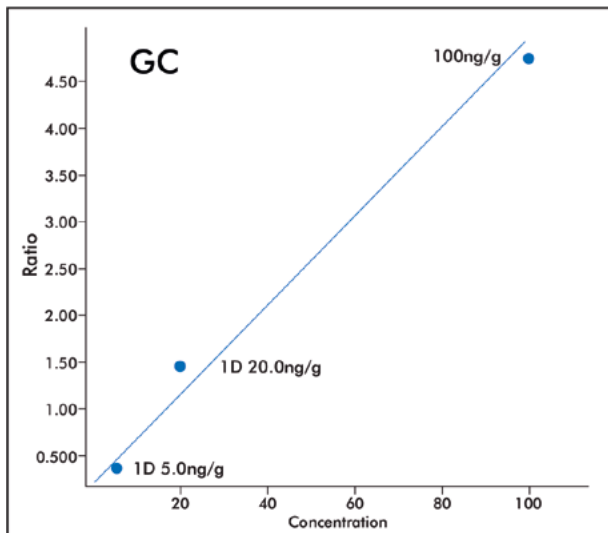


1st GC dimension

Quantitative Analysis Using the PEGASUS® BT 4D

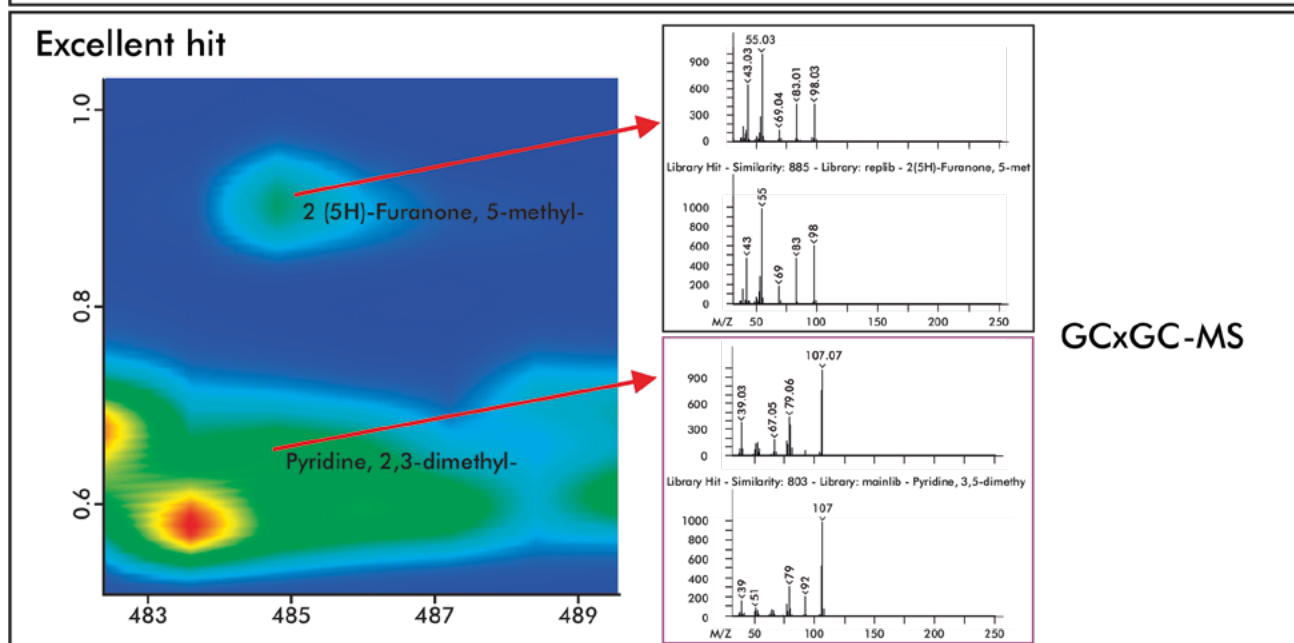
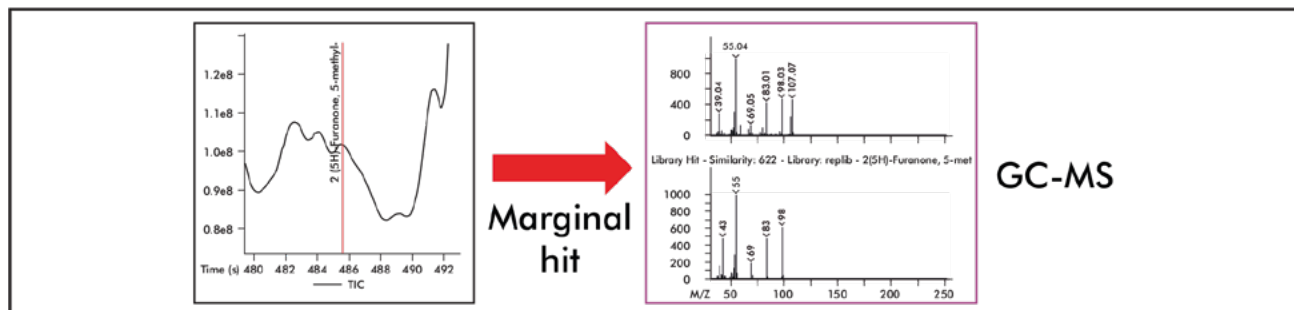
By leveraging GC x GC's superior chromatographic resolution, you can often separate target analytes from matrix interferences or other target compounds. In the figure below, you can see the GC and GC x GC quantitation curves for Chloroneb. Thanks to the

improvements from GC x GC peak focusing and chromatographic resolution, Chloroneb is separated from the nearby matrix interference. This results in dramatic improvements in overall sensitivity, linearity, and quantitation accuracy.



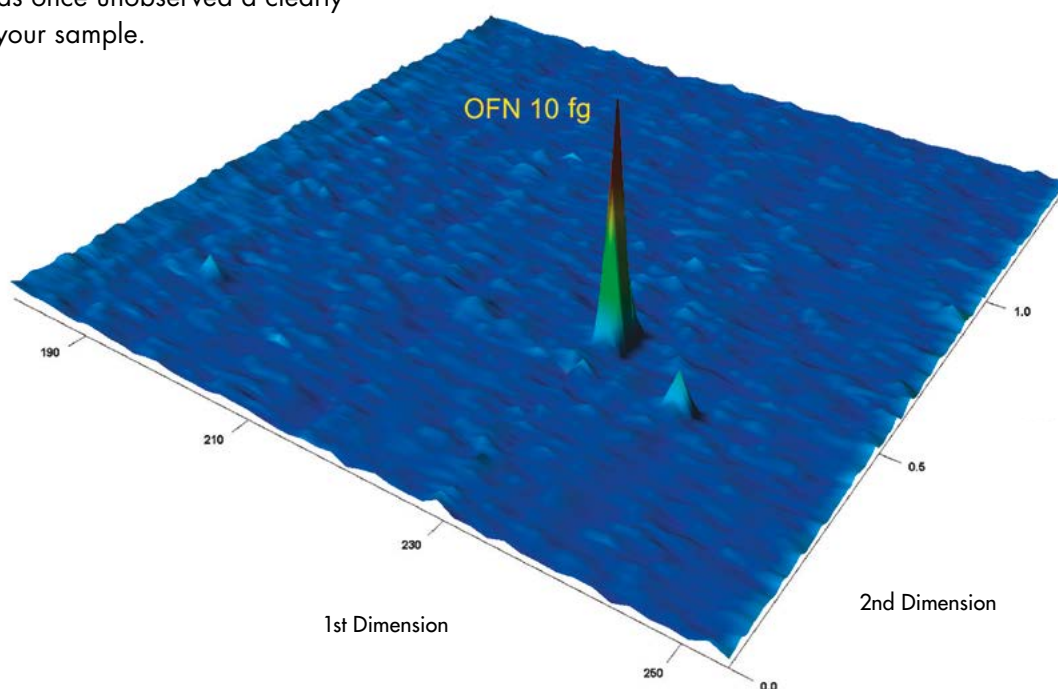
Qualitative Analysis Using the PEGASUS® BT 4D

Improve your identification – what was once a poor identification is now confidently confirmed.



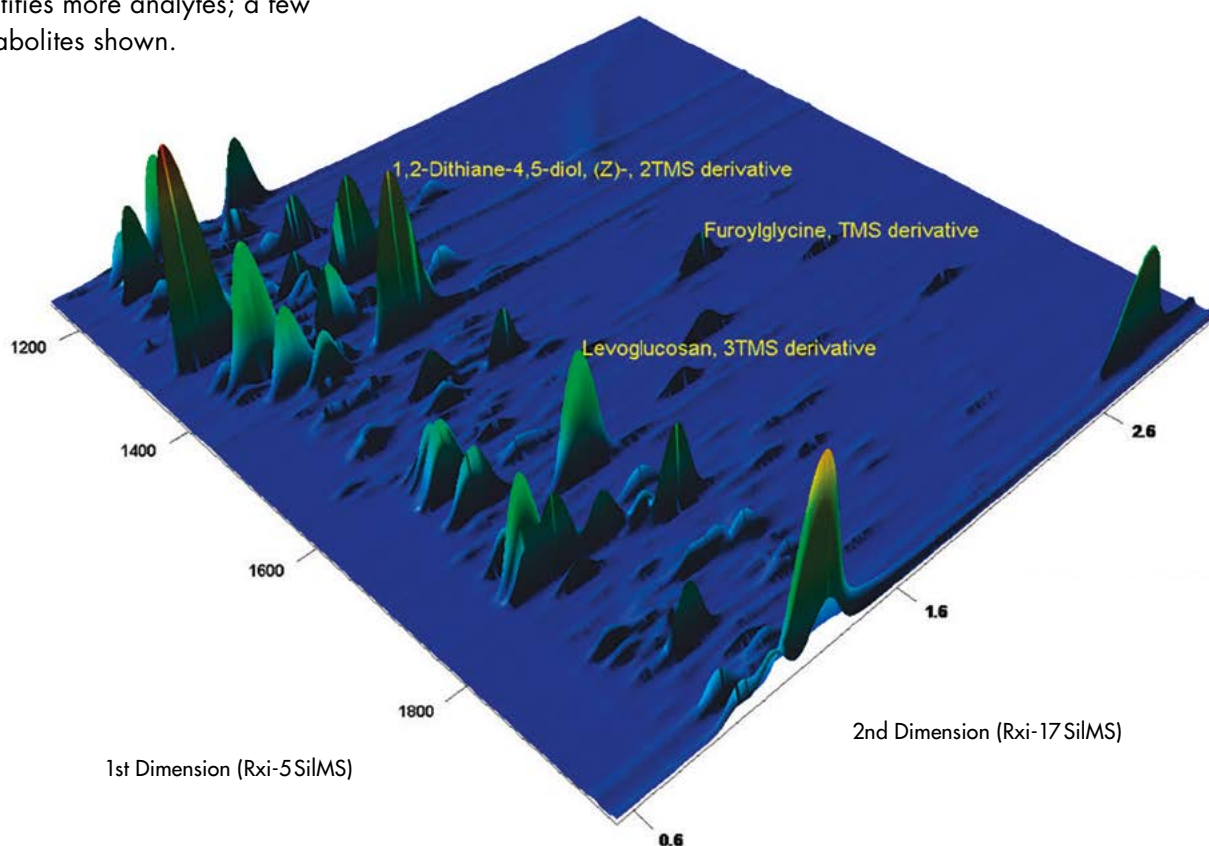
Excellent Sensitivity

The enhancement of S/N with the GC x GC modulation process makes what was once unobserved a clearly identifiable analyte in your sample.

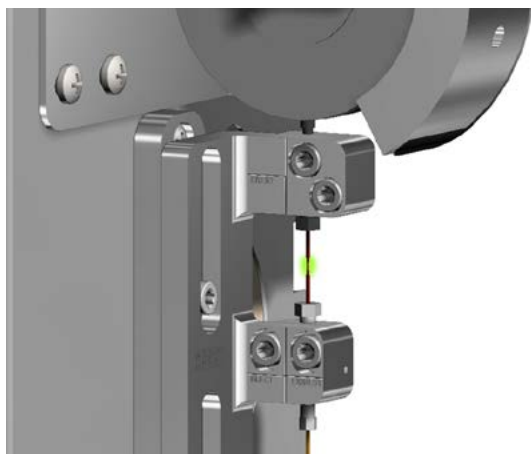


Identify MORE with Confidence / Non-Target Analysis

Smokers Urine on the Pegasus BT 4D – GC x GC identifies more analytes; a few identified metabolites shown.



FLUX™ Flow Modulator



In addition to our highest performance quad-jet thermalmodulation systems, we now have a diverting flow modulator.

- Excellent GC x GC performance
- No cryogenics or high flow rates needed
- Easy to setup, develop methods and run – all in one day!
- See 209–275 for more details

Our Commitment to Quality and Service



*European Application and
Technology Center, Berlin – Germany*

Every day around the world, LECO instruments continuously perform analyses for today's most complex applications. Whether you are analyzing samples in the food, flavour/fragrance, petroleum, environmental, or life science (metabolomics) industries, we have an instrument configuration to meet your needs.

Our global network of sales and 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.



Our Simply GC x GC® tool takes the worry out of GC x GC by guiding you step-by-step to maximize peak capacity.

Learn more at: www.leco.com/simply-gcxcg

LECO, Pegasus, ChromaTOF, StayClean, NonTarget Deconvolution, NTD, FLUX, and Simply GC x GC are trademarks of LECO Corporation

LECO Corporation

3000 Lakeview Avenue | St. Joseph, MI 49085
Phone: 269-985-5496
info@leco.com | www.leco.com

LECO Europe

info_eu@leco.com
www.leco-europe.com

