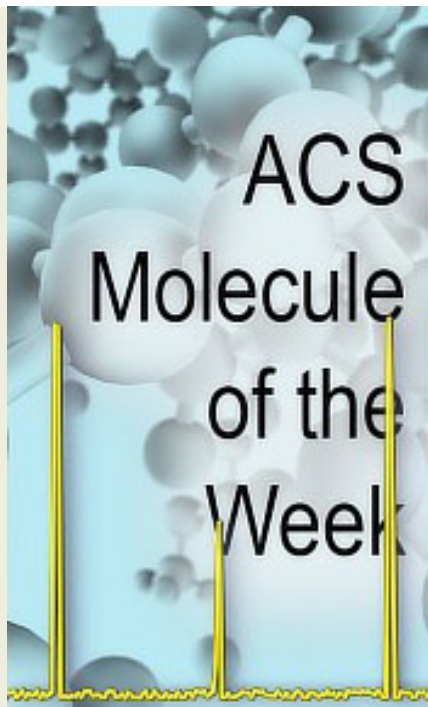


Mass Media

JEOL

Mass Spectrometry News and Applications
JEOL USA, Inc. May 2009



New AccuTOF-GCv Offers Highest Sensitivity



ACS Molecule of the Week

JEOL has analyzed many of the ACS Molecules of the Week with the AccuTOF-DART. [Check out our complete listing online.](#)

JEOL has introduced a new GC time-of-flight mass spectrometer with the highest sensitivity ($S/N > 100$ at OFN $1 \text{ pg}/\mu\text{L}$) of any GC mass spectrometer commercially available. By combining rapid data acquisition speeds with high resolution and a high dynamic range, the AccuTOF-GCv delivers exact mass measurements for both qualitative and quantitative analysis. [Product details>>>](#)

Features include:

[Optional EI/FI/FD Ion Source](#)
[Autotuning Function](#)

Upcoming Events

ASMS

May 31-June 4
Philadelphia, PA

Rocky Mountain Conf. on Analytical Chemistry

July 19-23
Snowmass, CO

Fall ACS

August 16-19
Washington, DC

Quick Links

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ASMS - See us there!

Visit JEOL at ASMS in Philadelphia May 31-June 4. There are multiple papers being given on JEOL's unique DART technology. If you'd like a printable version of this list, please [click here](#).

JEOL and Direct Analysis in Real Time (DART)-related Papers

MPY - Agriculture - Poster 558

"Using Solid Phase Micro Extraction (SPME) with DART Spectrometry to Monitor Fruit Ripening"

A. John Dane, Robert B. Cody

TOD 8:50 Tuesday - Novel Developments in MS Instrumentation: Ion Sources

"Desorption Electrospray/Metastable-Induced Ionization (DEMI): A New Ambient Multimode Ionization Technique"

L. Nyadong, A. Galhena, F. Fernandez

TPH - Ion Mobility - Poster 222

"Coupling Direct Analysis in Real Time to Atmospheric Pressure Drift Tube IMS for Gaseous, Solid, and Liquid Sample Analysis"

G. Harris, M. Kwasnik, F. Fernandez

TPL - Direct Ionization - Poster 305

"Ionization Mechanism of Positive Ion-DART: a transient microenvironment theory"

L. Song, S. Gibson, D. Bhandari, K. Cook, J. Bartmess

TPL - Direct Ionization - Poster 306

"The Utilization of the Direct Analysis in Real Time Experiment Table (DART-ET) in a Pharmaceutical Development Environment"

L. Buhler, L. Mallis, R. Helmy, P. Yehl, X. Gong, T. Rhodes

TPL - Direct Ionization - Poster 307

"Rapid Semi-Quantitative Mapping of Dispersed Caffeine Using an Autosampler/DART/TOFMS"

A. Grange

TPL - Direct Ionization - Poster 308

"Investigation of the Internal Energy Deposited During DART MS"

D. Hostetler, G. Harris, F. Fernandez

TPL - Direct Ionization - Poster 309

"Studies of the Mechanism and Limitations of DART"

J. Rummel, J. Eyler, D. Powell

TPL - Direct Ionization - Poster 310

"Determination of Melamine and Cyanuric Acide in Dried Milk Using DART TOF MS"

L. Vaclavik, J. Hajslova, B. Popping

TPZ2 - Forensics - Poster 660

"Soot as a Forensic Tool in the Mass Spectrometric Detection of Chemical Warfare Agents in the Field"

R. Robbins, W. Lagna

WPL - Instrumentation: New Concepts - Poster 628

"Web-enabled Management of an Ionization Source and Data Processing with the AppleiPod Touch"

P. Leopold, E. Crawford, J. Tice, M. Festa

WPZ - Polymers - Poster 628

"Development of a Novel Analytical Technique for the Identification of Organic Contamination on Spaceflight-Related Substrates Utilizing a DART-TOF"

K. Loftin, T. Griffin, C. Clausen II

WOB 2:30 Wednesday - App of Direct/Open Air Ionization Techniques for

CONTACT JEOL

If you would like to speak directly with us, please call

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National Sales Mgr.

Bob DiPasquale

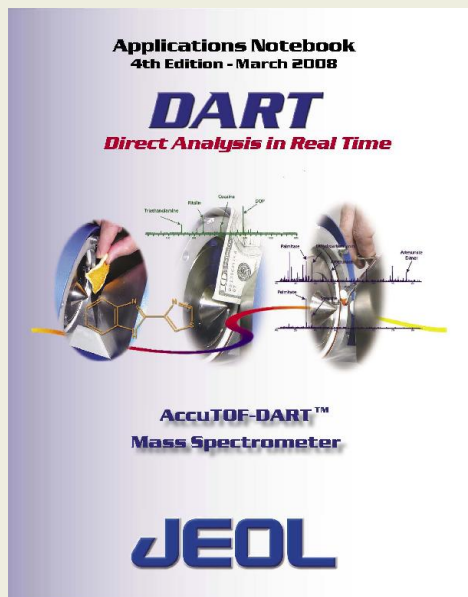
dipas@jeol.com

Service

Bill Miller

miller@jeol.com

Applications Notebook for AccuTOF-DART™ Open Air Mass Spectrometry



The 4th Edition of Applications Notes for the AccuTOF-DART is now available. To download, click on the image.

Quantitation of Drugs

"An Overview of Ambient Surface Sampling and Ionization Techniques"

G. Van Berkel

WOB 3:10 Wednesday - App of Direct/Open Air Ionization Techniques for Quantitation of Drugs

"Eliminating Method Development, Sample Preparation and Chromatographic Separations in High-Throughput Bioanalysis Using DART on an Enhanced Resolution Triple-Quadrupole Mass Spectrometer"

E. Crawford, B. Musselman, S. Yu, J. Wu

WOG 4:10 Wednesday - MS and Emerging Environmental Contaminants

"A Novel Technique Utilizing SBSE and DART-TOF for the Analysis of Pharmaceutical and Pesticide Contaminants in Aqueous Media"

K. Loftin, T. Griffin, C. Clausen, R. Cody, A.J. Dane

ThPC - Metabolomics III - Poster 084

"Investigating the Health of Whale Sharks at the Georgia Aquarium by DART Metabolic Serum Fingerprinting"

M. Zhou, A. Dove, D. Webb, J. Kubanek, F. Fernandez

ThPL - Direct Ionization - Poster 313

"Imaging Desorption Electrospray Ionization-Mass Spectrometry and DART MS for the Integral Investigation of Counterfeit Antimalarial Pharmaceuticals"

A. Galhena, L. Nyadong, R.M. Parry, M. Wang, F. Fernandez

ThPL - Direct Ionization - Poster 316

"DART-MS/MS Analysis of Foamed PVC Jar Lids"

L. Ackerman, G. Noonan, T. Begley, C. Simoneau, M. Suman

ThPL - Direct Ionization - Poster 318

"Transmission-Mode DART TOF MS for the Semi-Quantitative Analysis of Pyrethroid Pesticide-Treated Bednets"

J. Perez, M. Green, C. Hampton, F. Fernandez

ThPL - Direct Ionization - Poster 319

"Preparation and Rapid Analysis of Dry Powders with an Ambient Pressure Desorption Ionization Equipped Mass Spectrometer"

B. Musselman, E. Crawford, J. Krechmer

ThPL - Direct Ionization - Poster 321

"Development of a SPE/DART Assay for Rapid Narcotics Screening in Urine"

T. Allsup, B. Musselman, K. Gamble, K. Lewis

ThPL - Direct Ionization - Poster 326

"Development of a Greener Ionization Source for Ambient Desorption Ionization with Nitrogen as the Carrier Gas"

J. Tice, D. Simmons, M. Festa, J. Hill, B. Musselman

ThPL - Direct Ionization - Poster 330

"Novel Applications of DART in Pharmaceutical Industry"

G. Cheng

ThPL - Direct Ionization - Poster 332

"New Sampling Methods for the DART Ion Source"

R. Cody, J. Dane

Mass Spec & NMR Reference Data

Bookmark www.jeolusa.com for complete access to useful mass spec [Tutorials](#) , [NMR Tutorials](#), and [application notes](#).



DART in the News:

A Warning for Young Athletes

FOX Undercover

Updated: Wednesday, 18 Mar 2009, 4:13 PM EDT

Published : Tuesday, 17 Mar 2009, 6:56 PM EDT

BOSTON (FOX25, myfoxboston) - Many young athletes take dietary supplements to increase their strength and endurance. Most of them do that thinking what they're taking is safe, legal and free of steroids. FOX Undercover confirmed that at least one of those dietary supplements, available in stores across Massachusetts, contains an illegal steroid. [Watch Mike Beaudet's report.](#)

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