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What's Hot?

ESC Lab Sciences Partners with Agilent to "Go Green"



Agilent Technologies

ESC Lab Sciences is one of the largest environmental labs in the US. It is located in Mt. Juliet, TN just a short ride from the Nashville airport. The staff owners are committed to environmental stewardship. Instead of just talking about saving the planet they have created a Green Choice Initiative that has resulted in a win-win for the employees and the environment.

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Horizon Launches a New High Capacity, C-18 SPE Disk



Horizon launches a new High Capacity, C-18 SPE disk to compliment its full line of SPE products. The new Atlantic brand disk enables excellent recoveries of water samples containing high organic compounds. This new 47mm, C-18 disk features an increased sorbent capacity over the standard C-18 disks and reduces the risk of break-through while improving analyte retention....This new disk significantly improves the recovery of analytes such as caffeine, 2,4 and 2,6 dinitrotoluene, dimethoate and metribuzin defined in EPA Method 525.2 (Drinking Water).

What's New?

The Use of Multivariant Analysis for early Detection of Potential Food or Beverage Adulterations

This application note shows how a generic approach to sample prep, data collection, and data processing allow the contract laboratory analyst to successfully locate and identify unknown adulterations in food and beverages for their clients. With the capability to identify adulterations in food or beverages, you can prevent your clients from costly product recalls and protect their brands.

Waters
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Tech/White Papers

Automated Determination of Dissolved Gases in Water By Headspace Calibration of Mixed Gases



Due to the expansion of natural gas drilling through horizontal fracturing, there has been increased interest in the RSK-175 Standard Operating Procedure

(SOP) for the determination of dissolved gases in water. Since RSK-175 is an SOP and not a formal EPA method; laboratories have employed different approaches in order to calibrate for the dissolved gases. This paper will discuss calibration by using static headspace sampling of vials spiked with different volumes of mixed gases.

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Practical Considerations for Radiated Immunities Measurement using ETS-Lindgren EMC Probes



An ESCO Technologies Company

ETS-Lindgren EMC probes (HI-6022/6122, HI-6005/6105, and HI-6053/6153) use diode detectors for rectifying electromagnetic fields. The probes are calibrated to report continuous wave (CW) root-mean-square (RMS) electric fields. For electric fields with modulations or complex field with multiple frequency components, these probes may not accurately report the instantaneous field values or the true power of the field. For commercial EMC measurements, such as fields with 1 kHz 80% AM as required in IEC 61000-4-3 (EN 61000-4-3), the field readings should be taken with the modulation off (CW or sine wave only). Please see the related standards for details.

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Due to changing requirements and restrictions set forth by the EPA and other international regulatory agencies labs

performing water testing are faced with the challenge to evolve their processes. Horizon Technology Inc. has served as an industry leader developing automated applications for the extraction of compounds from drinking water for more than 20 years. Our latest cartridge-based drinking water applications focus on EPA Methods 508.1 and 522



[The Extraction of Chlorinated Pesticides, Herbicides, and Organohalides For EPA Method 508.1 Using Automated Cartridge SPE](#)

[The Analysis of 1,4-Dioxane for EPA Method 522 and UCMR 3](#)

The Extraction and Determination of BPA and Phthalate Content in Imported Plastic Toys

The debate over potentially toxic compounds used in plastic production has created new testing methods and regulations controlling or banning plasticizers such as phthalates and Bisphenol A (BPA). Children's products are often targeted for testing and regulation where the potential for toxic exposure is greater than for adults. The US has started to limit levels of some phthalates, including DEP, DEHP, DBP, BBP, for use in children's' products. The Consumer Product Safety Commission has published testing methods for these regulated phthalates while the regulation of BPA remains under debate. This study examines the levels of phthalates and BPA in small inexpensive imported children's toys using new

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microwave extraction methods developed to efficiently extract the different types of plastic toys examined. In addition, new certified reference materials were developed to monitor the extraction efficiency of various methods of phthalate extraction from polymers.

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Product Showcase

CABEM's Scheduling Tool for Conformity Assessment (vLab)



CABEM's vLab application is specifically focused on

conformity assessment testing, and is also well suited for projects with multi-organizational teams.

vLab is an integrated application that provides project management, team collaboration, document/data publishing and management, live witnessing of tests/data/events, and scheduling. This article summarizes the scheduling tool.

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Popular EMC Antennas Now Available for Immediate Shipment

ETS-Lindgren announced the immediate availability of its most popular electromagnetic compatibility (EMC) antennas.

Double- and quad-ridged horn antennas as well as conical log, shielded loop, biconical, log periodic, and active monopole antennas are now in inventory awaiting shipment.

Antennas-2-Go
Immediate Delivery
on Select Models[Read More](#)

ECCS Teams With Promium To Meet Unique Testing Challenges



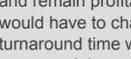
The combination of a fixed lab location

seamlessly integrated with a large mobile lab service poses interesting challenges for Environmental Chemistry Consulting Services, Inc. (ECCS). ECCS was established in 1991 and is headquartered in Madison, Wisconsin. With twelve mobile labs that have operated in more than thirty states, three countries, and 1,000 project sites, ECCS is the largest organization of its type in North America.

For many years ECCS was able to expand their business with a relatively lean infrastructure. But as the company grew, project management, access to data, sample management, and the overhead required to maintain high quality data became daunting. If ECCS wanted to continue to grow and remain profitable, something would have to change. "Our turnaround time was too long and we were doing a lot of typing into spreadsheets for reporting," said Karl Olm, ECCS Operations Manager. "It was taking us more than ten days to turn around final reports even for small jobs." The company needed a way to provide efficient onsite reporting and data management, and maintain productivity and quality assurance they needed a new information infrastructure.

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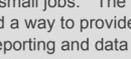
The New USLC™ Toolbox Gives You All the Right Tools - All in One Box



Restek's USLC™ column set represents

an incredible range of reversed phase selectivity with just 4 stationary phases:

es: Aqueous C18, IBD, Biphenyl, and PFP Propyl. It simplifies column choice for fast, effective method development-and new USLC™ toolboxes make things even easier!

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UCMR 3 Low-Level VOC Analysis by Purge and Trap Concentration and GC/MS using Selective Ion Monitoring



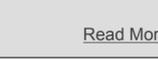
The United States Environmental Agency (USEPA) has established the Unregulated Contaminant Monitoring Program to collect data for contaminants suspected to be present in drinking water.

The USEPA is currently proposing Unregulated Contaminant MonitoringAQTek100-Stratum Rule 3 (UCMR 3) which will collect data from January 2013 through December 2015.

Because of the impact on public health and safety, it is vital to have a system that can detect and analyze for these compounds at low levels. This study will validate the analysis of the Volatile Organic Compounds (VOCs) present on the UCMR 3 analyte list. USEPA Method 524.3,

used to monitor the VOCs, allows for the use of Single Ion Monitoring (SIM) to reach the part-per-trillion (ppt) levels required by UCMR 3.2

This study uses a Teledyne Tekmar Stratum Purge and Trap Concentrator (PTC) and AQUATek 100 Autosampler coupled to a Thermo ISQ Single Quadrupole GC-MS. A calibration curve and detection limits will be determined for the VOCs on the UCMR 3 analyte list.



For more information on this application note please visit our website www.teledynetekmar.com/resources/app_notes/VOC/Stratum_UCMR.asp

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