

*For Mass Spectrometry and Chromatography*

**FEATURES**

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- a.) Vacuum Pump Filter Kits
- b.) SIS AutoProbe<sup>TM</sup>

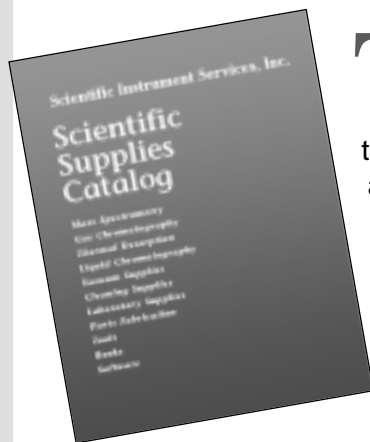
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The Only Difference is the Price!

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A major new release of NIST software with a 35% increase in coverage over NIST 98 from high quality sources (174,948 Spectra)

**SIS 2003 - 2004 Catalog**



The new SIS GC/LC/MS supplies and services catalog is under construction. Distribution is expected to be in October of this year. Many new additions to the catalog are planned including a section on our new AutoProbe for the Thermo Finnigan TRACE MS, an expanded section on the Agilent/J&W columns and supplies, a new section on the low cost ValcoBond capillary GC columns, and many new supplies and services for your mass spectrometers and related equipment.

**SIS WEB Site:**  
<http://www.sisweb.com>

The SIS Web site has been in existence since September 1995 and has expanded to more than 2000 pages since its introduction. To those of you who have not visited it lately, the home page was redesigned about a year ago. In addition to listing many of our products and services available to the mass spec community, we maintain the collection of articles and posters that we have presented at various scientific meetings over the year. The SIS web site is designed to be a source of information for the mass spectrometer community. Information such as Mass Spec Calibration Compound spectra, exact masses and relative isotopic abundances of the elements, independent servicemen as well as information about Scientific Instrument Services products and services for the mass spectrometer, gas chromatograph and liquid chromatograph is available. In addition you can view new products and services available from SIS, request literature and update your name on our mail list. We plan to continuously expand our WEB page and welcome your suggestions.

**Mail List Update**

In order for us to keep our mail list current, we are requesting that our customers update their status with SIS. This can be done by going to our web site and updating it there. Your help is greatly appreciated in this area. Our WEB address for mail list update is:

<http://www.sisweb.com/maillist.htm>

**Several new products and pages have been added to the WEB site as summarized below:**

<u>Page Address</u>	<u>Description</u>
<a href="http://www.sisweb.com/software/ms/nist.htm">http://www.sisweb.com/software/ms/nist.htm</a>	NIST 02
<a href="http://www.sisweb.com/software/ms/nist2.htm">http://www.sisweb.com/software/ms/nist2.htm</a>	NIST 02
<a href="http://www.sisweb.com/reference/tips/msclean.htm">http://www.sisweb.com/reference/tips/msclean.htm</a>	Mass Spec Source CleaningProcedure
<a href="http://www.sisweb.com/ms/sis/msclean.htm">http://www.sisweb.com/ms/sis/msclean.htm</a>	Mass Spec Source Cleaning Kit
<a href="http://www.sisweb.com/gc/vici/index.htm">http://www.sisweb.com/gc/vici/index.htm</a>	VICI ValcoBond GC Capillary Columns
<a href="http://www.sisweb.com">http://www.sisweb.com</a>	Agilent Quick Reference & Service Notes
<a href="http://www.sisweb.com">http://www.sisweb.com</a>	Agilent GC Capillary columns - complete listing



## Mass Spec Information Web Site - ChemStationWorld.com

ChemStationWorld.com announces its August 1st worldwide Web debut. As a source of information and provider of training and consulting for users of Agilent ChemStation-related products, ChemStationWorld.com is the premier independent single point-of-contact for all ChemStation-related questions.

ChemStationWorld.com is devoted entirely to the purpose of assisting users to optimize their existing ChemStation implementation. ChemStationWorld.com provides a new multipurpose venue by which its members may share information, access tools and macros, attend training and seminars, and engage in consulting to enhance their ChemStation productivity.

For more information on ChemStationWorld.com, please visit their Web site at ChemStationWorld.com.

## SIS Products and Special Promotions

### Vacuum Pump Exhaust Filter Kits

If the vacuum pumps on your mass spectrometers are not vented outside the laboratory, then we highly recommend that they be filtered to prevent the oils and other contaminants from the pump oil from being exhausted into your laboratory. SIS has put together a two stage filtering system and has done several studies to demonstrate the effectiveness of this system. We have three articles on the use of exhaust filters on vacuum pumps. These articles describe how the filters work and why they should be used. In addition, ordering information is also available on our web site:

#### Vacuum Pump Exhaust Filters

**Part I** – A Two Stage Exhaust Filter System - <http://www.sisweb.com/referenc/applnote/app-82.htm>

**Part II** – Oil Mist Eliminators - <http://www.sisweb.com/referenc/applnote/app-83.htm>

**Part III** – Charcoal Exhaust Traps - <http://www.sisweb.com/referenc/applnote/app-84.htm>

#### Vacuum Pump Exhaust Filters – Kits and Ordering Information

<http://www.sisweb.com/vacuum/sis/pumpft.htm>



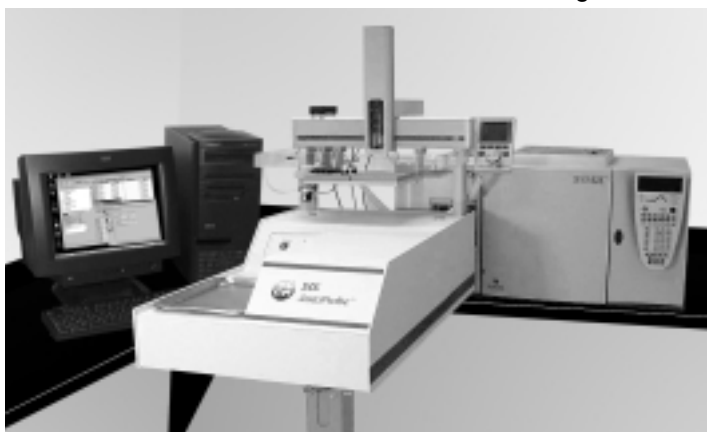
### SIS AutoProbe™ for the Thermo-Finnigan TRACE MS

SIS has recently developed a new AutoProbe™ - an automated direct probe for the Thermo Finnigan TRACE™ mass spectrometer. In addition we are currently developing new models of the AutoProbe for the Thermo Finnigan Polaris Q and DSQ instruments. These new systems should be available by the end of the year.

The AutoProbe System is an Automated Direct Exposure Probe (DEP) for the Finnigan TRACE Mass Spectrometer System with a dual EI/CI source. The AutoProbe System injects samples directly into the MS source for mass spec sample analysis with no chromatographic separation. This permits samples to be analyzed in 3 minutes or less. The AutoProbe operates in the Thermo Finnigan Xcalibur™ MS Software environment and is fully integrated with the Xcalibur software, including system setup, methods setup, system operation and data storage.

Applications of the direct probe technique include the screening of drug and pharmaceutical samples, quality control sample analysis, spot analysis of chemical reaction mixtures to monitor rates of synthesis, and the analysis of compounds which cannot be chromatographed. The AutoProbe System is used where high volumes of samples need to be analyzed quickly or it can be used in an "Open Access" environment where it can be operated by multiple users with minimal MS expertise.

Additional Details and Application Notes on the AutoProbe are available on our WEB site.



#### "The Mass Spec Source"

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Web: <http://www.sisweb.com>, E-mail: <http://www.sisweb.com/contact>

# The Only Difference is the Price!

## ValcoBond® Capillary Columns

Now available from  
Scientific Instrument Services

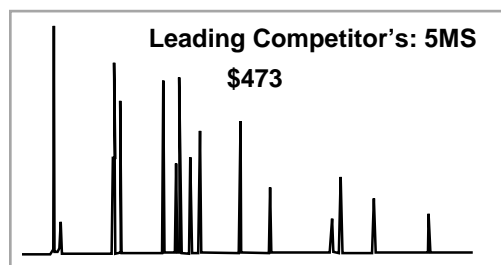
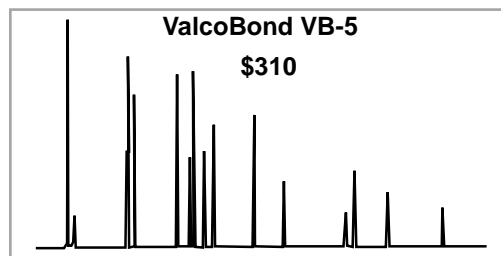
Compare the ValcoBond VB-5 30m x 0.25mm x 0.25µm MS Grade column to the leading competitors' 5MS columns. Can you tell the difference? If not then why not let the price make the difference for you.

**Save up to 35% over the cost of the leading competitor.**

- **Individually Tested** - to insure that columns meet the highest, quality standards for resolution, retention characteristics, inertness, bleed and reproducibility

- **High Temperature Limits** - Unique automated processing allows columns to exhibit higher upper temperature limits. These improved upper temperature limits enhance column "bake out", reducing sample carryover and cycle times.

- **Low Bleed** - ValcoBond uses proprietary liquid phase processing to produce low bleed characteristics while maintaining identical retention characteristics to the phases you are used to. These processes combined with proprietary automated deactivation, coating, curing, bonding and crosslinking produce MS-certified bleed characteristics equal to the best. Be wary of competitors' so-called "virtually identical" phases.



### Phases Available:

- VB-1
- VB-5
- VB-35
- VB-50/608
- VB-WAX
- VB-FFAP
- VB-210
- VB-1701
- VB-634
- VP-Alumina
- VP-Molesieve

Column	ID	df	Temp Limits	15Meter	Price	30Meter	Price	60Meter	Price
VB-1	0.25mm	0.25µm	-60 to 360/370°C	CFS-A01525-025B	\$185.00	CFS-A03025-025B	\$310.00	CFS-A06025-025B	\$565.00
VB-1	0.30mm	0.25µm	-60 to 360/370°C	CFS-A01532-025B	\$210.00	CFS-A03032-25B	\$340.00	CFS-A06032-25B	\$610.00
VB-5	0.25mm	0.25µm	-60 to 360/370°C	CFS-B01525-025B	\$185.00	CFS-B03025-025B	\$310.00	CFS-B06025-025B	\$565.00
VB-5	0.32mm	0.25µm	-60 to 360/370°C	CFS-B01532-025B	\$210.00	CFS-B03032-025B	\$340.00	CFS-B06025-025B	\$610.00

For Additional Columns and Prices Please See Our Web Site at  
<http://www.sisweb.com>



**Scientific Instrument Services, Inc.**  
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# New! Just Released

## NIST 02

*A Major New Release available from Scientific Instrument Services*

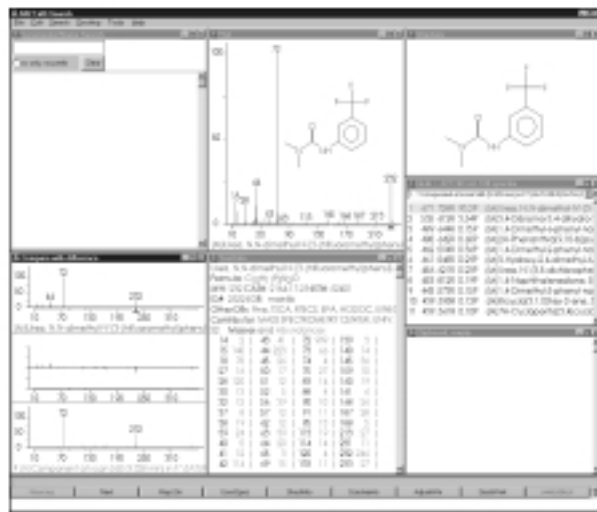
### NIST/EPA/NIH Mass Spectral Library

*The product of a multiyear, comprehensive evaluation and expansion of the world's most widely used mass spectral reference library*

#### Expanded for Quality

35% increase in coverage over NIST 98 from  
high quality sources  
(174,948 spectra)

- 147,198 Compounds
- 147,194 Chemical structures
- 27,750 Replicate Spectra
- 18,598 Compounds with Replicate Spectra
- 111 Average Peaks/Spectrum
- 98 Median Peaks/Spectrum



*Available with the enhanced, full-featured*  
**NIST MS Search Program for Windows**

*with integrated tools for:*  
*GC/MS Deconvolution      MS Interpretation*  
*Chemical Substructure Identification*

Part No.	Description	Price (until 9/30/02)	Price (after 9/30/02)
441010	NIST 02 Library & Search Program, Complete	\$1,800.00	\$2,000.00
441010UG	NIST 02 Upgrade from Previous Version	\$750.00	\$925.00
441010HP	NIST 02 Library for Agilent (HP) ChemStation	\$1,995.00	\$2,195.00
441010HPUG	NIST 02 Upgrade for Agilent ChemStation	\$945.00	\$1120.00

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