



The Agilent 5975C Series GC/MSD
Performance, productivity and confidence.

Our measure is your success.

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Agilent Technologies

The Agilent 5975C Series GC/MSD

Proven performance, superior productivity—and maximum confidence in your results.

Welcome to the next generation of the industry-proven Agilent 5975C Series MSD—the most popular GC/MS of all time.

The Agilent 5975C Series MSD—with Triple-Axis HED-EM Detector—combines innovative design features to boost your lab's productivity and advanced analytical capabilities that help you achieve better results faster. Perfectly complemented by the new 7890A GC, the platform delivers all the elements for perfect chemistry: superior performance, unmatched reliability, greater productivity and enhanced ease of use.



The Agilent 5975C Series GC/MSD is built on a solid foundation of industry leadership, reliability and performance.

Advanced Analysis Capabilities

The modular mass analyzer incorporates a solid inert ion source, a proprietary quartz quadrupole analyzer and a new higher signal-to-noise Triple-Axis Detector. This powerful combination provides better MS resolution, exceptional spectral integrity and lower limits of detection—for the highest confidence in your results. New Trace Ion Detection technology provides even more capabilities at trace level.

Higher Throughput

Comprehensive automation features, faster separations and shorter detection cycle times enable you to process more samples in less time. Advanced analysis routines let you get maximum information from every run, and new automated spectral deconvolution software enables rapid identification and quantification.

Maximum Uptime

Thoughtful, real-world engineering features allow faster, easier routine upkeep, and new system intelligence features enable predictive support, enhanced self-maintenance and powerful remote diagnostics—making it easier than ever to keep your lab up and running at peak performance.

For additional instrument specifications go to:
www.agilent.com/chem/5975C-Specs
5989-6351EN: 5975C Series GC/MSD Data Sheet



350°C inert ion source

Now programmable up to 350°C, delivers enhanced response for active compounds and late-eluters. **Page 4**



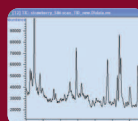
Proprietary gold quartz quadrupole with 1050 u mass range

Optimal resolution and sensitivity across the mass range; lowest mass deviation ensures longer lasting tuning and calibration. **Page 4**



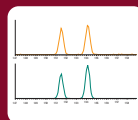
High S/N Triple-Axis Detector

The next generation of off-axis detection minimizes noise and maximizes signal for the lowest detection limits. **Page 5**



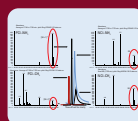
Trace Ion Detection technology

Lowers detection limits in complex matrices; together with the high temperature inert ion source, this new technology gives your lab powerful new analytical capabilities. **Page 5**



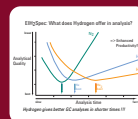
Synchronous SIM/Scan mode

Selectively monitor for ions of interest at high sensitivity while simultaneously acquiring spectra at scan rates up to 12,500 u/s. **Page 6**



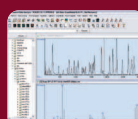
All ionization modes in one automated sequence

PCI, NCI and EI with standard CI ion source; auto CI feature makes CI as easy as EI. **Page 7**



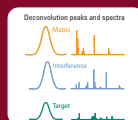
New hydrogen EI signal-to-noise specification

Permits faster analysis under safe conditions—with the lower cost of hydrogen carrier gas. **Page 7**



GC/MS software

Fits your workflow and your application—powerful features and advanced functionality enhance your lab's performance and productivity. **Page 10**



Deconvolution Reporting Software

Our second generation software gives you fast answers with confidence; together with new Retention Time Locking databases, DRS significantly reduces post-run analysis time. **Page 12**



GC/MS columns and supplies

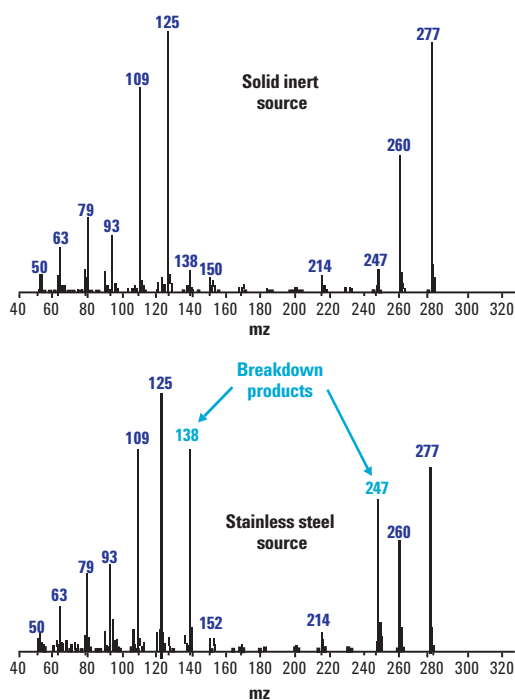
High performance Agilent J&W GC columns and certified supplies maximize your analytical results. **Page 15**

Engineered for performance and productivity, from the source to the detector.

Building the world's most trusted GC/MS solutions is a process of continual improvement. With each new generation, we never lose sight of our goal—to help your lab get better results with higher confidence in the shortest possible time.

High temperature solid inert ion source boosts your system performance

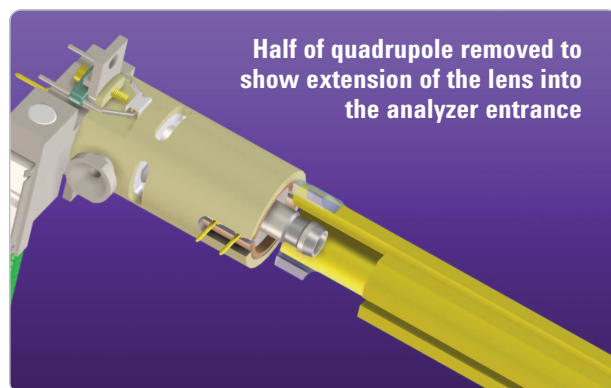
Agilent's proprietary inert source is now programmable up to 350°C to provide enhanced response for active compounds and late-eluters. It delivers improved peak symmetry, higher EI response, fewer degradation ions and more reliable library searches. Higher temperature also means less frequent cleaning—a nice improvement for your lab's productivity. (1)



Improved spectral integrity. New inert source eliminates surface activity reactions, resulting in more reliable library matches.

The gold standard in quadrupole design

The MSD analyzer incorporates a combination of patented, proprietary technologies to deliver superior performance and enhanced reliability.



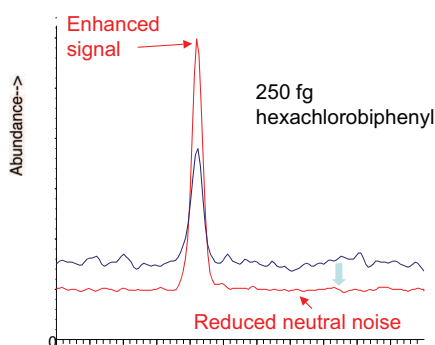
The last lens, which extends into the heated monolithic quadrupole, optimizes coupling of the source to the analyzer. Voltage on this lens is dynamically ramped synchronously with analyzer voltage to focus maximum ion signal for every m/z into the center of the quadrupole field.

The dimensional stability of the single piece quartz analyzer is a fundamental strength of the MSD design. Unlike metal rods, temperature changes from room temperature to 200°C do not alter the quartz dimensions. Higher analyzer temperature allows robust, maintenance-free operation—even with complex, high boiling samples.

The submicron-layered gold, hyperbolic electrode surfaces eliminate field errors of round rod quadrupoles and deliver excellent resolution, mass axis stability and ion transmission efficiency across the full mass range, up to 1050 u. An available high mass checkout kit provides added confidence that high mass is accurately reported. (2)

Triple-Axis Detector for lower detection limits and reduced cost of operation

The fundamental goal for the detector module is always the same: collect more ions of interest and eliminate background sources of noise. To achieve these goals, the 5975C detector uses a new ion guide and shield to position a new long-life triple channel electron multiplier (EM) doubly off-axis from the analyzer exit. The optimized ion path increases signal and eliminates noise from energetic neutrals. The result is simply the best signal-to-noise specification in the market, and the perfect complement to the inert source and patented hyperbolic analyzer.

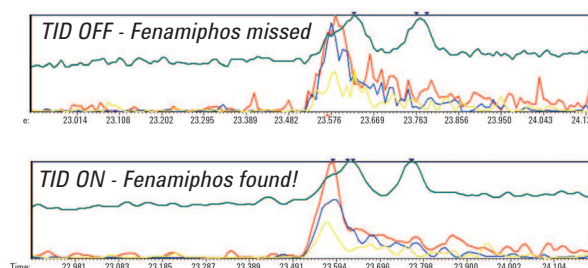


Triple-Axis Detector increases signal and decreases noise—the ideal combination for improved detection limits.

Ask about a detector upgrade for your existing Agilent 5975 Series GC/MSD.

Trace Ion Detection delivers a real performance improvement for complex matrices

Revolutionary Trace Ion Detection technology gives you a better spectral fidelity, increasing your confidence level when doing library matching. It lets you lower your Method Detection Limit (MDL), as well as your limit of quantitation (LOQ), reducing false negatives and further enhancing the performance of the inert ion source at trace levels. The technology also ensures more reproducible baselines, dramatically reducing the number of manual interventions during peak integration.



Analysis of Fenamiphos. Without Trace Ion Detection enabled (top), fenamiphos was missed as a poorly defined shoulder on a larger peak. When Trace Ion Detection was activated (bottom), noise decreased and a clear hit was achieved.

High sensitivity AutoTune makes it easy to optimize system performance

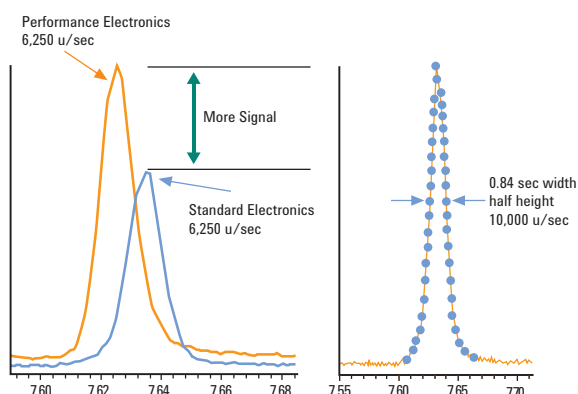
Take the trial and error out of optimizing operating conditions by automating the process. The 5975C system's AutoTune saves time, boosts performance and improves instrument-to-instrument consistency. New gain normalized tune of the EM ensures consistently optimized ion count and prolongs EM life. (3)

- (1) 5989-6051EN: The 5975C Series MSDs: Guidance in Implementing High Ion Source Temperature
- (2) 5989-3142EN: Applying the 5975 inert MSD to Higher Molecular Weight Polybrominated Diphenyl Ethers (PBDEs)
- (3) 5989-7654EN: Enhancements to Gain Normalized Instrument Tuning

Powerful analytical capabilities improve results and productivity.

Fast electronics enhance performance and enable synchronous SIM/Scan

Fast electronics used in the 5975C Series GC/MSD maximize signal transmission for fast GC/MS in full scan and Selected Ion Monitoring (SIM) modes. They also enable synchronous SIM/Scan functionality—without compromising analytical performance. (4)

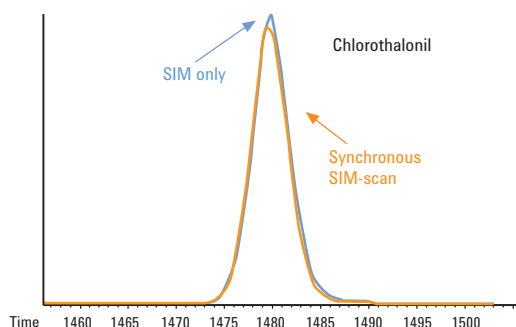


More signal, and more data points. Total ion chromatogram of Heptachlorobiphenyl compares standard electronics (Agilent 5973 Series MSD) to new fast electronics. Both chromatograms were acquired by the same instrument at the same scan speeds (horizontal offset for clarity). High scan rates up to 12,500 u/sec allow accurate peak integration even for narrow bore capillary peaks.

High-performance Selected Ion Monitoring (SIM) and full scan

Agilent's synchronous SIM/Scan functionality lets you capture SIM data and full scan data in the same acquisition. Because of the ease of setup and availability of spectral libraries, many labs use full scan for most of their data collection. SIM mode, on the other hand, offers a significant improvement in sensitivity over full scan data; however, SIM data cannot be searched against commercially available spectral libraries for match confirmation.

Now, with the 5975C system's synchronous SIM/Scan operation, you can get both—in a single run! Even better, you don't have to be a GC/MS expert to do it. Agilent's AutoSIM software capability automatically converts full scan data into SIM or SIM/Scan acquisition parameters for use in synchronous SIM/Scan methods. SIM dwell times can be set in 1 msec increments from as fast as 1 msec to over 100 msec dwell time.



No sensitivity loss in SIM during SIM/Scan operation. The overlay above compares SIM-only acquisition (blue) to the SIM signal from a synchronous SIM/Scan acquisition (orange).

(4) 5989-3108EN: Improving Productivity with Synchronous SIM/Scan

(5) 5989-4347EN: The 5975 inert MSD—Benefits of Enhancements in Chemical Ionization Operation

CI as easy as EI

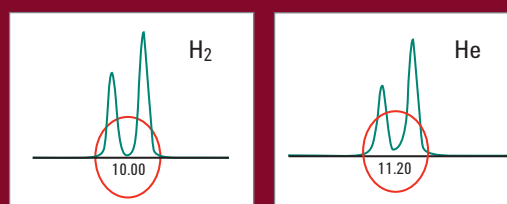
Chemical Ionization (CI) has long been considered an advanced GC/MS technique because of complex setups, reagent gas adjustment and ion source tuning. Now the Agilent 5975C inert GC/MSD makes CI as routine and easy as EI—and EI spectra can be generated without changing to the EI source.

An intuitive user interface and a CI flow control module work together to automatically adjust the CI reagent gas flow for optimum performance. The dual reagent inlets allow easy comparison of complementary reagents like methane and ammonia.

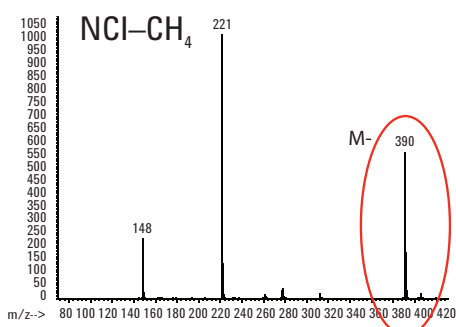
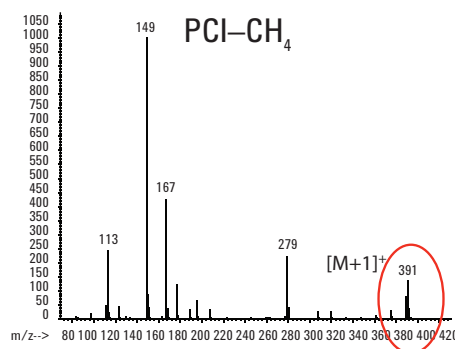
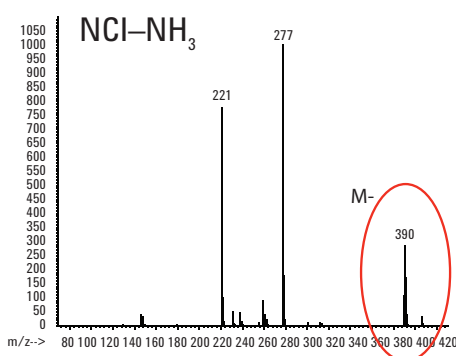
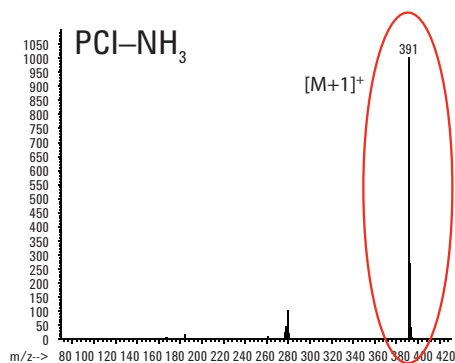
Automated calibrant “burn-off” allows the system to be quickly readied for use even in the ultra sensitive NCI mode.

Use hydrogen to lower your cost per analysis

The new hydrogen signal-to-noise specification for the 5975C Series GC/MSD makes Agilent the first and only instrument manufacturer to certify the performance and safety of hydrogen as a carrier gas. In fact, hydrogen often provides faster analysis times and resolution greater than GC/MS systems operating in helium mode.



Analysis of polyaromatic hydrocarbons using H₂ and He.
In this example, H₂ actually provides better resolution.



Diocetyl phthalate in all CI modes. Many compounds yield little identifying information in EI; for example, all phthalates look very similar. CI provides valuable additional spectral information: PCI with ammonia (upper left); PCI with methane (lower left); NCI with methane (lower right); and NCI with ammonia (upper right). (5)

The Agilent 7890A Gas Chromatograph: The next level of GC performance and productivity.

Adding an exciting new chapter to a 40-year history of GC leadership, Agilent's new 7890A flagship GC gives you everything you need to take your lab to the next level of GC/MS performance, including advanced chromatographic capabilities, powerful new productivity features and real-time self-monitoring instrument intelligence. Plus, of course, legendary Agilent reliability.



The new Agilent 7890A Gas Chromatograph brings important new separation capabilities and productivity features to the industry-leading Agilent GC platform.

Agilent performance and reliability

Fifth-generation electronic pneumatics control (EPC) and digital electronics set a new benchmark for retention time locking (RTL) precision and retention time repeatability, and help make the 7890A Agilent's most dependable GC ever.

Higher productivity

Faster oven cool down, robust backflush capability, advanced automation features and faster GC/MS oven ramps let you get more done in less time, at the lowest possible cost per sample—all easily incorporated into your existing methods.

Simultaneous GC detector operation

For non-target compounds, a sensitive, selective GC detector is a powerful complement to MS. That small, unexpected peak on the ECD baseline might provide the only clue to a critical compound. The GC/MSD Productivity ChemStation will simultaneously acquire signals from two GC detectors and MSD SIM/Scan signals. (6)

(6) 5989-7670EN – Replacing multiple 50-minute FPD/ELCD/SIM analysis with one 15-minute full-scan analysis for 10x productivity gain

The Agilent 7890A GC works right into your current 6890 workflow, with no major changes to your methods

You can increase your productivity and take advantage of the new capabilities of the 7890A system with no disruption to your lab's smooth operation. Right out of the box, operators will be immediately comfortable with the familiar controls and user interface—and because the 7890A system is built upon proven 6890 GC inlets, detectors and GC oven, you can transfer methods to your new 7890A GC with complete confidence.

Breakthrough Capillary Flow technology

Agilent's innovative Capillary Flow modules enable reliable, leak-free, in-oven connections. Available in a number of useful configurations,



these inert, low-mass, low-dead volume devices not only make it easy to make secure connections, they give you the ability to precisely divert your gas flow, where and when

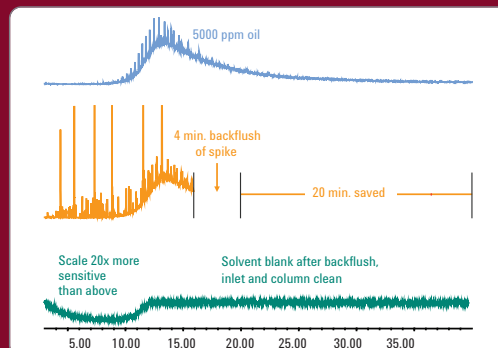
you want. This opens the door to highly useful techniques such as flow splitting, backflushing and Deans switching that can improve your analytical results, as well as saving time and resources.

Perform SSL inlet maintenance in seconds!

Convenient new Turn-Top design is built into each split/splitless (SSL) inlet, allowing you to change liners and columns more quickly and easily than ever before—without special tools or training.



7890A GC gives you a net improvement in productivity



Semivolatile analysis (5 ppm) of hazardous waste (simulated sample with high boiling interference).

Top (blue): Peaks of interest elute by 16 minutes, but a 24-minute bake-out at 320°C is required to elute heavy components.

Middle (orange): Using the 7890A system's backflush capability with a turbo-based 5975C MSD, the sample was rerun with a 4-minute backflush—saving 20 minutes per run (**50% total cycle time savings**). ALS Overlap and faster cool down save an additional 4 minutes per cycle.

Bottom (green): A solvent blank monitored at a more sensitive scale confirms the efficiency of the backflush.



The Agilent 6850 Series II GC—small, rugged, easy to use

Is your lab doing simple, routine applications or at-line analysis? The Agilent 6850 GC, combined with the 5975C VL MSD, is the perfect choice if you need just a single inlet and detector. The small-footprint system offers a surprising number of advanced features—as well as legendary Agilent reliability.

GC/MS software that matches your workflow and maximizes your productivity.

The Agilent MSD Productivity ChemStation makes it easy even for non-expert operators to take advantage of all the advanced capabilities of the Agilent 5975C inert GC/MSD system. You will find everything designed to help you make the most of every run, and every workday.

Advanced instrument control

- Control of two GC/MS systems from a single PC
- Improved tuning procedures for accurate, consistent results and extended life of the EM (Gain Normalization)
- Simultaneous acquisition of SIM and Scan data for high sensitivity quantitation and library searchable spectra
- Integrated control of Liquid Samplers, G1888 Headspace Sampler and PAL Autosamplers
- Simultaneously acquired MSD and GC detector signals
- Automatic alerts about pending maintenance

Simplified configuration of methods

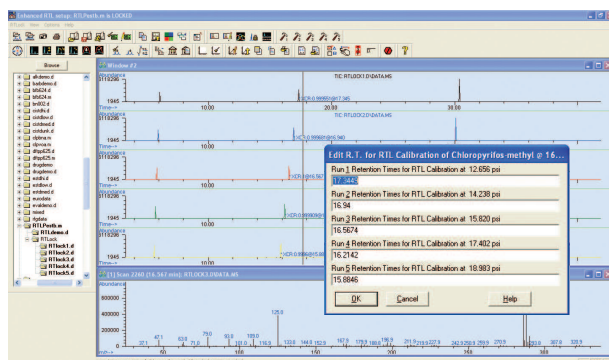
- Import/export of shared methods (eMethods)
- Import LIMS Sample Work Lists
- Guided setup of new calibration tables based upon automatic integration and library search results (AutoQuant)
- Automatic conversion of any full scan method to a high sensitivity SIM or SIM/Scan method (AutoSIM)
- Multi-instrument consistency for retention time locking (RTL)

High productivity data analysis

- Quantitative power for over 2000 compounds at 20 levels of calibration with 4 curve fit options
- Reprocess a previously run sequence while acquiring data
- Sequentially search up to 3 different libraries
- Direct comparison of multiple data files from multiple detectors (MS and/or GC)
- Simultaneous analysis of multiple data files (Enhance Data Analysis Plus)

Retention Time Locking (RTL)

- Reproducible retention times instrument to instrument and lab to lab anywhere in the world
- Confirmation of mass spectra identified compounds based on locked retention times
- Fifth generation EPC control to 0.001 psi



Retention Time Locking (RTL) is permanent, universal and flexible. The retention time for each of the chromatograms can be edited manually when the RTL method is being calibrated.

Reporting and customization

- General purpose and tailored report packages: Enhanced, EnviroQuant (USEPA), DrugQuant and Aromatics in Gasoline (ASTM)
- Custom reports with up to 240 graphic elements and corresponding databases for summary view and charting
- Export of reports in XLS, HTML or XML format
- PDF reports with index for searching and electronic signatures
- Macro programs to automate repetitive steps (mouse actions, menu choices and typed entries) and customize processes
- MSD Security ChemStation to address data security, integrity and traceability mandated by FDA's 21 CFR Part 11

SemiQuant. Quickly and easily estimate the concentration of non-calibrated compounds

Agilent's SemiQuant capability works together with Retention Time Locking (RTL) databases to increase confidence in your compound identification and speed up the quantification process.

When an unknown peak appears, a library search provides only a possible match with the sample spectrum. Using the appropriate RTL database, you can increase certainty by matching the retention time of your compound with a fixed retention time in addition to spectral data. Should you wish to quantify the compound, SemiQuant helps by estimating the concentration, so that you can inject the appropriate level of the standard. (7)

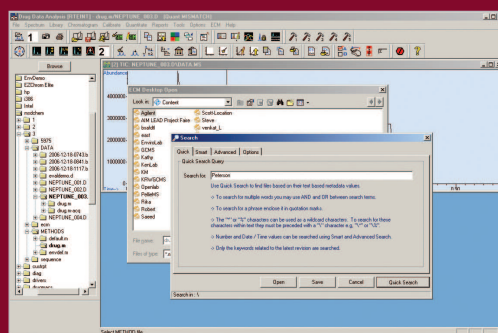
Quantitation Report (Not Reviewed)						
Data Path : C:\msdchem\1\data\ Data File : evaldemo.d Acq On : 7 Sep 1989 19:59 Operator : D. Peterson Sample : demoscans sample Misc : 10 ng per component ALS Vial : 1 Sample Multiplier: 1						
Quant Time: Mar 10 15:39:59 2006 Quant Method: C:\msdchem\1\METHODS\EVALDEMO-SQ-UM.M Quant Title: Semi-quant tests QLast Update: Thu Mar 09 13:51:45 2006 Response via: Initial Calibration						
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Dodecane	5.288	57	9737444	1000.00	ng	0.00
Target Compounds						
2) Biphenyl	6.431	154	27583844	1000.00	ng	99
3) 4-Chlorobiphenyl	7.741	188	18794921	1000.00	ng	99
Semi-Quant Compounds - Not Calibrated on this Instrument						
4) Uncalibrated Compound #1	9.776	74	13182392	697	ng	

SemiQuant compounds are highlighted at the bottom of the Quantitation Report.

eMethods. Replicate, share and distribute methods

With Agilent eMethods, recreating and replicating a new GC/MS method is now a quick and fully automated process. You can bring a new GC/MS online in the shortest possible time, and maximize lab productivity by standardizing on methods—whether your instruments are across the hall, or across the world.

Integration with Agilent OpenLAB Enterprise Content Manager (ECM) streamlines data handling and organization.



Agilent OpenLAB Enterprise Content Manager is a Web-based application that provides a secure, centralized repository for all of the electronic data generated in your organization. (8) Comprehensive search and collaboration tools allow users to effectively find, use and re-use the information they need to make intelligent business decisions. Agilent OpenLAB ECM makes your lab more efficient, productive and confident by enabling the collection and conversion of the broadest range of analytical data into accurate and actionable information.

(7) 5989-4997EN: SemiQuant: New GC/MS Software Approaches to Estimating Compound Quantities

(8) 5989-6104EN: Integration of GC/MSD ChemStation with Agilent OpenLAB ECM

Rapid deconvolution, identification and quantification in complex matrices.

Agilent's simple, easy-to-use Deconvolution Reporting Software (DRS) is an optional software feature that saves hours of analysis and review. Based on industry standard AMDIS, our second-generation deconvolution software quickly finds compounds missed by other data analysis packages. In fact, it reduces data review time from hours of tedious work to minutes of unattended computer analysis.

The revolutionary solution fully integrates three different software packages:

- Agilent's GC/MSD ChemStation
- The National Institute of Standards and Technology (NIST) Mass Spectral Search Program with the NIST MS Library
- NIST's Automated Mass Spectral Deconvolution and Identification Software (AMDIS)

The DRS automates the following operations:

- Quantitation by the MSD target ion or the AMDIS deconvoluted ion via GC/MSD ChemStation QEdit
- Spectral Deconvolution, or "cleaning" of full scan spectra
- Library searching of cleaned spectra
- Graphic and text reports that summarize both MSD and AMDIS deconvolution results for efficient review

Wide choice of custom RTL databases

Rapid, accurate identification and quantification is ensured with one of Agilent's RTL databases (spectra and retention time). Databases for PAHs, PCBs, Flavors, FAMES, VOCs, Semi-VOCs, Pesticides and Endocrine Disruptors, Hazardous Chemicals, Organotins and Indoor Air Toxics have been expanded to include:

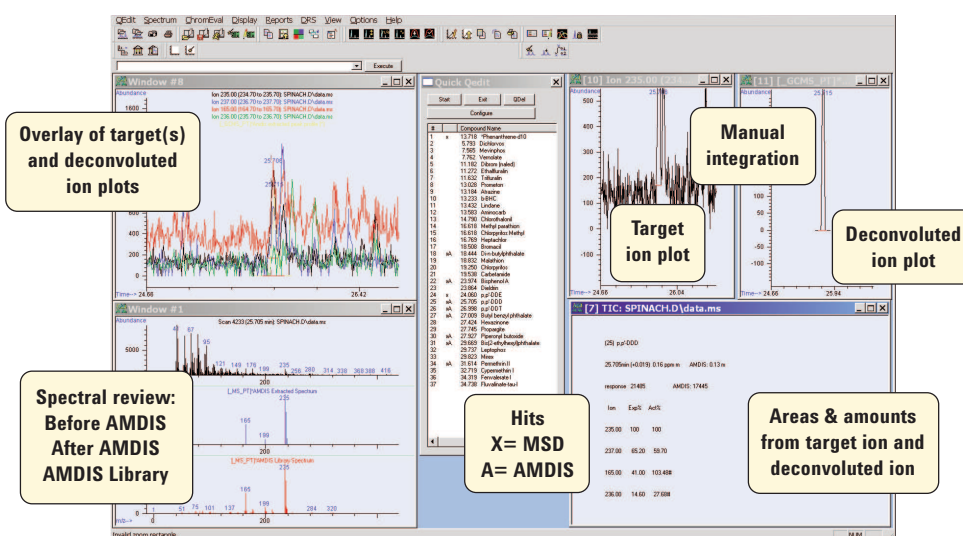
- Japanese Positive List Pesticides
- Forensic Toxicology
- Metabolomics

	California Department of Food and Agriculture (CDFA)	Deconvolution Reporting Software (DRS)
Number of pesticide hits	37	Same 37 plus 99 additional
Number of false positives	1	0
Time required to process	8 hours	32 minutes

Comparison of the time to process 17 surface water samples.

CDFA: A skilled analyst processing the 17 samples took about 8 hours to review results and eliminate false positives.

Agilent DRS: Fully automated process took about **30 minutes** and found an additional 99 compounds. (9)

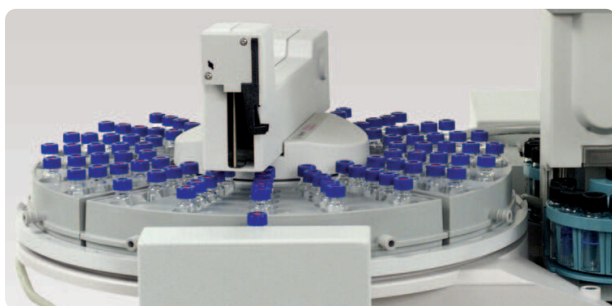


GC/MSD ChemStation QEdit fully integrates deconvoluted data from AMDIS including EICs and spectra.

Accessories and options make your 5975C even more versatile and productive.

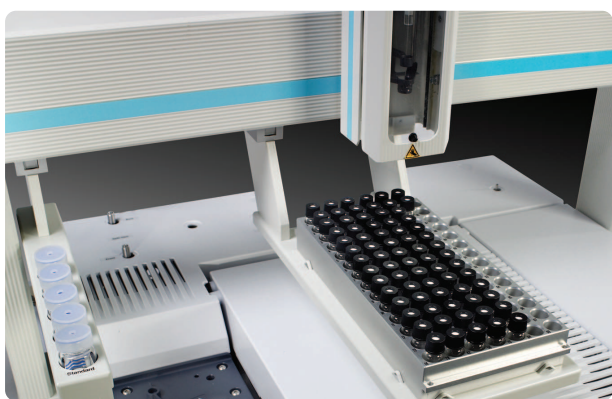
Automatic Liquid Samplers—perfect productivity partners for your 5975C Series GC/MSD

Add an Agilent 7683 Series Automatic Liquid Sampler. Offering the fastest injection times of any GC autosampler, greater solvent capacity, multiple sampling options, dual simultaneous injection, certified autosampler vials—and more—the 7683 ALS is ready to go to work.



Boost your lab's output with automated sample preparation

Choose the versatile CombiPAL sample injector for liquid injection, headspace and solid-phase microextraction (SPME). The economical GC PAL platform is configured for liquid injection only, but offers many of the other capabilities of the CombiPAL including large volume injection (LVI), multiple vial and syringe sizes, and extended sample vial capacity.

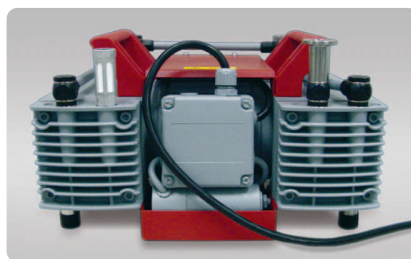


Agilent G1888A Headspace Sampler adds to your analysis capabilities

Automatically introduce volatile compounds from virtually any sample matrix directly into a GC or GC/MS. An inert sample pathway from vial through column to source provides superior chemical performance without analyte degradation or loss.

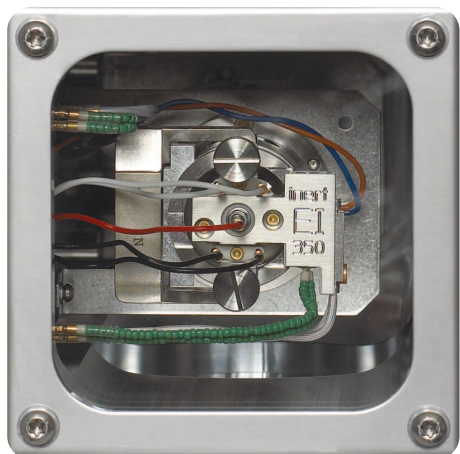
Oil-free pump—clean and virtually maintenance free

Agilent is the first mass spectrometer manufacturer to offer this unique pump, which requires virtually no routine maintenance. There's no oil, so no danger of oil contamination or leaking.



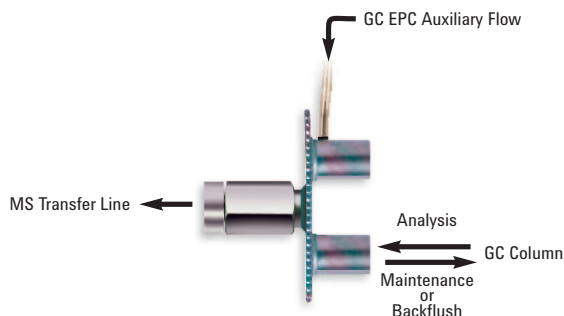
Designed for supportability and maintenance.

Agilent GC/MSD systems have always been designed for easy serviceability and maintenance—and the Agilent 5975C Series GC/MSD takes this design philosophy to a whole new level.

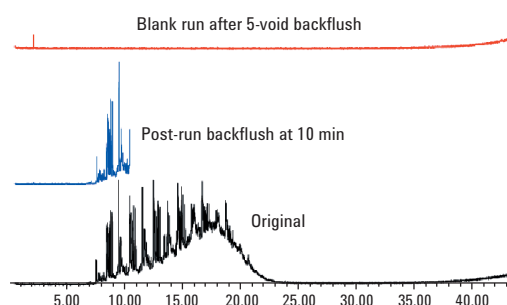


- **Modular analyzer assembly** offers complete access to the filament, ion source and electron multiplier for faster routine maintenance—in fact, the entire analyzer assembly can be removed in less than two minutes, without tools! A modular, self-contained electronics module minimizes problems with cables and wiring harnesses.
- **Front glass window** provides simple source identification, as well as a complete view of critical connections—so you can see for sure the column is connected properly.
- **High-reliability vacuum system** assures maximum long-term performance; available oil-free pumping system virtually eliminates pump maintenance and reduces noise, and can be used with corrosive gases such as ammonia.
- **Triple-Axis Detector with new triple-channel electron multiplier (EM)** more than doubles EM life. The Electron Multiplier Saver feature further extends EM life during SIM operation with highly concentrated peaks.
- **Optional ion gauge** helps to troubleshoot and isolate leaks as quickly as possible.

QuickSwap Capillary Flow device saves time and money with every column change and system maintenance



Tired of waiting around for a mass spec to vent before you can change a column out or perform routine inlet maintenance? Using a “QuickSwap” Capillary Flow device, you can safely disconnect the column without venting, and without losing vacuum—in about 30 seconds!



The QuickSwap device can also be used for column backflushing, reducing MSD contamination by high-boiling sample components, shortening analysis time and decreasing the frequency of cleaning the ion source. (Note: Backflush operation requires pumping capacity of a turbomolecular pump.) (10)

(10) 5989-6018EN: Improving Productivity and Extending Column Life with Backflush

High-performance Agilent J&W columns and supplies for the Agilent 5975C Series GC/MSD.

To help you achieve better results faster, Agilent is continuously improving the cleanliness, convenience and reliability of columns and supplies for Agilent GC/MSD systems. From market-leading J&W columns—with rigorous quality control and QC testing that ensure reproducibility, efficiency and inertness—to GC flow path supplies designed, manufactured and packaged to maintain the integrity of your sample, Agilent columns, supplies and accessories will improve your lab's performance, productivity and confidence.



Performance

Choose Agilent J&W columns and supplies for a leak-free, inert flow path to ensure lowest bleed and best signal-to-noise performance in Agilent GC/MSD systems.

From among the full suite of Agilent low-bleed J&W columns, the inert HP-5MSi column was selected to ship with the new 5975C. Specially tested to ensure maximum area response performance of strong acid and base compounds, this column is also compatible with Agilent Pesticide Libraries for MS.

Tight inlet seals are needed to keep MS system performance at its peak. Agilent pre-cleaned liners and conditioned liner O-rings—matched with our new, proprietary, injection-molded, gold-plated seal—prevent the tiniest leaks that cause column bleed and signal deterioration.

Productivity

Agilent supplies help keep routine maintenance routine. Our capillary column ferrules, O-rings and septa are packaged to remain clean and ready for use, and conveniently dispense one at a time as needed for fast inlet maintenance.

Agilent's new J&W High Efficiency Capillary GC columns in 0.18 mm id allow for potentially 50% or more faster analysis than conventional GC/MS without loss of resolution. The improved sample throughput enables lower cost per analysis in conjunction with reduced carrier flow requirements.

Confidence

Agilent J&W columns and supplies ensure your Agilent 5975C system delivers as promised. In fact, our GC and GC/MS instrument specifications are determined using industry-leading Agilent J&W columns and Agilent brand chromatography supplies. Eliminate concerns about lost samples or productivity from unexpected sequence interruptions by using Agilent certified autosampler vials, septa and caps, and Gold Standard syringes. Each comes with a Certificate of Conformance to assure you all specifications are met.

Agilent J&W GC columns and our portfolio of chromatographic supplies are available through Agilent and authorized Agilent distributors.

Agilent services let you focus on what you do best.

Agilent's service organization is the most respected in the industry. Whether you need support for a single instrument or a multilaboratory operation, we can help you solve problems quickly, increase your uptime and optimize your lab's resources. On our full line of GC/MS systems, we offer:

- On-site preventive maintenance to ensure dependable operation and minimize unplanned downtime
- Troubleshooting, maintenance and repair for Agilent as well as non-Agilent instruments
- Remote diagnostic and monitoring services to maximize instrument uptime and lab productivity
- Industry-leading regulatory compliance services and education
- Expert consulting and training

The Agilent Value Promise—10 years of guaranteed value.

In addition to continually evolving products, we offer something else unique to the industry—our 10-year value guarantee. The Agilent Value Promise guarantees you at least 10 years of instrument use from your date of purchase, or we will credit you with the residual value of that system toward an upgraded model. Not only does Agilent ensure a safe purchase now, we help ensure your investment is as valuable to you in the long run.

The Agilent Service Guarantee



Should your Agilent instrument require service while covered by an Agilent service agreement, we guarantee repair or we will replace your instrument for free.

No other manufacturer or service provider offers this level of commitment to keeping your laboratory running at maximum productivity.

For more information

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