

DATE: 5/06/2015

INVITATION TO BID
THIS IS NOT AN ORDER

BID NO.: 50-00113239

JEFFERSON PARISH
PURCHASING DEPARTMENT
P.O. BOX 9
GRETNA, LA. 70054-0009
504-364-2678

Page: 1

BUYER: SDuffy@jeffparish.net

BIDS WILL BE RECEIVED IN THE PURCHASING DEPARTMENT, SUITE 4400, JEFFERSON PARISH GENERAL GOVERNMENT BUILDING, 200 DERBIGNY STREET, GRETNA, LA 70053 UNTIL 2:00 PM, 6/02/2015 AND PUBLICLY OPENED THEREAFTER.

LATE BIDS WILL NOT BE ACCEPTED

Unless submitting via online (see Page 3), each bid must be submitted in a sealed envelope bearing on the outside; the name of the Bidder, his address, and the name of the project for which the bid is submitted and the bid number.

NOTE: ONLY BIDS WRITTEN IN INK OR TYPEWRITTEN, AND PROPERLY SIGNED BY A MEMBER OF THE FIRM OR AUTHORIZED REPRESENTATIVE, WILL BE ACCEPTED. PENCIL AND/OR PHOTOSTATIC FIGURES OR SIGNATURES SHALL RESULT IN BID REJECTION.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

THE FOLLOWING INSTRUCTIONS APPLY TO ALL BIDS

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law as well compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647.

All vendors submitting bids must register as a Jefferson Parish vendor if not already yet registered. Bidders may be required to furnish current W-9 Forms and respective Tax Identification Numbers within 10 days after bid opening if such information is not on file or not up to date. Forms to register may be downloaded from www.purchasing.jeffparish.net and clicking on Vendor Information.

All quotations shall be based on F.O.B. Agency warehouse or job site, anywhere within the Parish as designated by the Purchasing Department. This provision does not apply to public works projects

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.

Bidders should submit all questions in writing and fax them to the Purchasing Department at (504) 364-2693 no later than FIVE (5) working days prior to bid opening. Bid numbers should be mentioned in all requests. Questions may also be emailed to the buyer for this bid at the email address listed above. If submitting online, vendors may send questions via the E-Procurement site no later than Five (5) working days prior to the bid opening.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum. Please note that all official communication will be expressed in the form of an addendum.

All formal Addenda require written acknowledgement on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected. JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

The purpose and intention of this invitation to bid is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, operating supplies and/or equipment listed in this bid proposal. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications.

Visit our website at [HTTP://PURCHASING.JEFFPARISH.NET](http://PURCHASING.JEFFPARISH.NET)

JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated.

If the bid exceeds \$30,000.00 and the company is duly authorized to do business in the state of Louisiana, a corporate resolution must be submitted with the bid or the person signing the bid documents must be listed on the Louisiana Secretary of State's website as an officer of the corporation, unless bidder has otherwise complied with LSA-R.S. 38:2212(A)(1)(c) or LSA-R.S. 38:2212 (O). If the bid is in excess of \$30,000 and bidder is registered out of the state of Louisiana, a corporate resolution must be submitted with the bid, unless bidder has otherwise complied with LSA-R.S. 38:2212(A)(1)(c) or LSA-R.S. 38:2212 (O). Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. Bids submitted by Owner or Sole Proprietorships must include certification that he or she owns the entity for which the bid is signed. Sole proprietors submitting bids for public works projects shall within 10 days after bid opening submit sole proprietorship certification.

NOTE: A sample corporate resolution can be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document. A sample certification of sole proprietorship can also be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

A. AWARD OF CONTRACT: JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE. IN THE EVENT OF SPLIT AWARD, THE PURCHASING DEPARTMENT MAY CONTACT VENDORS TO REQUEST REQUIRED AFFIDAVITS. THOSE VENDORS WILL HAVE 10 DAYS FROM THE DATE OF NOTICE TO SUBMIT COMPLETE, SIGNED AND NOTARIZED AFFIDAVITS IN ORIGINAL FORMATS.

All bid prices shall remain valid for 45 days. Jefferson Parish and the lowest responsive and responsible bidder(s) by mutual written consent may mutually agree to extend the deadline for award by one (1) or more extensions of thirty (30) calendar days.

Preference is hereby given to materials, supplies, and provisions produced, manufactured or grown in Louisiana, quality being equal to articles offered by competitors outside the state. "LSA-R.S.38:2251-2261"

B. USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

C. CANCELLATION OF CONTRACT: JEFFERSON PARISH reserves the right to cancel all or any part if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel any contract at anytime and for any reason by issuing a THIRTY (30) day written notice to the contractor.

For good cause and as consideration for executing a contract with Jefferson Parish, vendor conveys, sells, assigns and transfers to Jefferson Parish or its assigns all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of Louisiana, relating to the particular good or services purchased or acquired by Jefferson Parish.

D. PRICES: Jefferson Parish is exempt from paying sales tax under LSA-R.S. 47:301 (8)(c). All prices for purchases by Jefferson Parish of supplies and materials shall be quoted in the unit of measure specified and unless otherwise specified, shall be exclusive of state and Parish taxes. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit price shall prevail.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A17.1-1961).

E. RESPONSE TO INVITATION: If your company is unable to bid on this request, please state your reason on bid form, and return to this office before bid opening date. Failure to do so may result in the removal of your company from Jefferson Parish's vendors list.

F. POSTING OF BIDS: A listing of bids will be posted on bulletin board in Suite 4400, Jefferson Parish General Government Building, Gretna, LA and will remain posted until close of respective bids.

Advertised bids will be tabulated and a copy of the tabulation will be forwarded to each responding bidder.

IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS

This Electronic Procurement System allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Please note requirements contained in this bid package for electronic bid submission.

Please visit the Purchasing Department webpage at <http://purchasing.jeffparish.net> to register and review Jefferson Parish solicitations.

The general specifications for construction projects and the purchase of materials, services and/or supplies are those adopted by the JEFFERSON PARISH Council by Resolution No. 113646 or 113647 dated 12/09/09. The general conditions adopted by this resolution shall be considered as much a part of this document as if they were written wholly herein. A copy may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at <http://purchasing.jeffparish.net> and clicking on Online Forms.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

6,10,13,15

1. All bidders must attend the pre-bid conference in relation to this bid; attendance is mandatory. Failure to attend will prohibit a company from submitting a bid. Vendors arriving after the mandatory pre-bid conference begins will not be allowed to sign in as evidence of attendance.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.
7. PUBLIC WORKS BIDS: All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. NON-PUBLIC WORKS BIDS: A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. NON-PUBLIC WORKS BIDS: A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. Unless otherwise stated in the bid specifications, the successful bidder will be required to procure standard insurance policies evidencing Parish-mandated insurance requirements as indicted on the attached sheet. The current certificate of insurance must be submitted by low bidder within 10 days after bid opening to the Purchasing Department. Failure to comply will cause bid to be rejected. JEFFERSON PARISH reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid Solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations or warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits (in Original Format) required; Non-Collusion Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit and E-Verify Affidavit must be completed, signed, notarized and submitted by low bidder within 10 days after bid opening to the Purchasing Department on all solicitations for construction, alteration or demolition of public building or project, including but not limited to requirements found in LSA-RS 38:2212.9; LSA-RS 38:2212.10; LSA-RS 38:2224; Code of Ordinances, Jefferson Parish, Louisiana, Sec 2-923.1. Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format for the bid to be considered responsive.
15. NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits (in Original Format) required; Non-Collusion Affidavit, and Campaign Contribution Affidavit must be completed, signed, notarized and submitted by low bidder with bid submission within 10 days after bid opening to the Purchasing Department. See LSA-RS 38:2212.10; LSA-RS 38:2224; Code of Ordinances, Jefferson Parish, Louisiana, Sec 2-923.1 Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. For the convenience of vendors, all affidavits have been combined into one form entitled NON-PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format for the bid to be considered responsive.

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission; and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to Jefferson Parish Code of Ordinances Section 2-155.10(19). By submitting a bid, vendor acknowledges this and will abide by all provisions of the referenced Jefferson Parish Code of Ordinances.

All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES _____ NO

MAXIMUM ESCALATION PERCENTAGE REQUESTED _____%

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF July 10, 2015

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

5 Weeks ARO

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable)

N / A

THIS SECTION MUST BE COMPLETED BY BIDDER:

FIRM NAME: Agilent Technologies, Inc.

ADDRESS: 2850Centerville Road

CITY, STATE: Wilmington, DE ZIP: 19808

TELEPHONE: (800) 227-9770 FAX: (302) 993-5941

EMAIL ADDRESS: lscabids@agilent.com

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: N / A

NUMBER: _____

NUMBER: _____

NUMBER: _____

TOTAL PRICE OF ALL BID ITEMS: \$ 119,994.13

AUTHORIZED SIGNATURE: *Georgeann Foster* *

Georgeann Foster

TITLE: Business Sales Specialist

Printed Name

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.

*Agilent Technologies, Inc. (Agilent) is bidding in accordance with attached quotation 1843229. Please reference the quotation number on any resultant award.

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	1.00	EA	LABOR, MATERIALS AND EQUIPMENT NECESSARY TO SUPPLY AND INSTALL GAS CHROMATOGRAPH AND RELATED ACCESSORIES FOR THE JEFFERSON PARISH DEPARTMENT OF PUBIC WORKS, WATER. 0010 AGILENT G3440B, 7890B GAS CHROMATOGRAPH CUSTOM, INCLUDES LAN INTERFACE, 7693 INTERFACE,20-RAMP OVEN PROGRAMMING 6 HEATED ZONES, 2 ANALOG OUT, KEYBOARD AND DISPLAY PRESSURE SETPOINTS TO 0.001 PSI, INERT CAP SPLIT/SPLITLESS INLET WITH ELECTRONIC PNEUMATICS CONTROL (EPC) 100 PSI. MASS SPECTROPHOTOMETER DETECTOR INTERFACE. THREE CHANNELS OF EPC, FACTORY PLUMBLING, OVEN EXHAUST DEFLECTOR, PURGED UNION, BACKFLUSH READY INCLUDES INSTALLATION AND FAMILIARIZATION. WATER DEPT.-WATER LAB-KRISTEN RAGAN	19,545.40	19,545.40
2	1.00	EA	0020 AGILENT G7042AA, 5977A INERT MASS SELECTIVE DETECTOR (MSD) WITH DATA SYSTEM. PERFORMANCE TURBO PUMP AND INERT ELECTRON IONIZATION (EI) SOURCE. INCLUDES SELECT MASS HUNTER FAMILIARIZATION, INSTALLATION, MSD FAMILIARIZATION, AND ONE YEAR OF PHONE ASSISTANCE.	49,921.20	49,921.20
3	1.00	EA	0030 AGILENT G3397B, ION GUAGE KIT FOR 5977 MSD. INCLUDES INSTALLATION.	1,745.25	1,745.25
4	1.00	EA	0040 AGILENT G1033A, NIST 2014 MS LIBRARY BUNDLE, INCLUDES 243,000 SPECTRA WITH NAMES, CHEMICAL STRUCTURES, AND RETENTION INDICES. INCLUDES MS/MS SPECTRA LIBRARY, NIST SEARCH, AND AMDIS PROGRAMS. INCLUDES INSTALLATION	4,346.25	4,346.25
5	1.00	EA	0050 AGILENT G4513A, 7693A AUTOINJECTOR THAT INCLUDES TRANSFER TURRET, 16-SAMPLE TURRET, MOUNTING POST, PARKING POST FOR GC, 10 UL SYRINGE, AND SOLVENT BOTTLES. INCLUDES INSTALLATION AND FAMILIARIZATION.	5,589.00	5,589.00
6	1.00	EA	0060 TEKMAR TMR-9800 STRATUM PTC SAMPLE CONCENTRATOR. INCLUDES 60 INCH SILTEK TREATED TRANSFER LINE, TUBING, AND	19,388.00	19,388.00

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
7	1.00	EA	TREATED FITTINGS THROUGH SAMPLE PATHWAY, HEATED SAMPLE MOUNT, DRY FLOW MOISTURE SYSTEM, AND U-TRAP TECHNOLOGY. 0070 AGILENT G3184-60065, TEE, INERT FOR CAPILLARY FLOW TECHNOLOGY.	228.00	228.00
8	1.00	EA	0080 AGILENT 160-2255-5 FUSED SILICA DEACTIVATED TUBING 0.250 MM X 5 M	48.75	48.75
9	1.00	EA	0090 AGILENT G3188-27502 0.32MM ULTIMETAL TREATED FLEXIBLE METAL FERRULE	65.20	65.20
10	1.00	EA	0100 AGILENT SYS-GM-5977T, ADVANTAGE SILVER SERVICE AGREEMENT, 3 YEARS TOTAL INCLUDING 1 PREVENTATIVE MAINTENANCE PER YEAR.	19,117.08	19,117.08
11	.00		LOCATION: JEFFERSON PARISH WATER LAB 3600 JEFFERSON HWY., BLDG. E JEFFERSON, LA 70121 ATTN: KRISTEN RAGAN 504-838-4305	--	--

*Agilent Technologies, Inc. (Agilent) is bidding in accordance with attached quotation 1843229. Please refer to the quotation for details.

In reference to insurance, Agilent is including a Memorandum of Insurance. The insurance provisions listed on the Memorandum indicate the insurance coverage Agilent will evidence if awarded this contract. If Agilent is the successful bidder an Agilent Standard ACORD 25 Certificate of Insurance will be provided upon notification from the customer.

CORPORATE RESOLUTION

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF

INCORPORATED.

AT THE MEETING OF DIRECTORS OF _____
INCORPORATED, DULY NOTICED AND HELD ON _____,
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT
WAS:

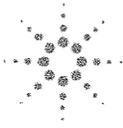
RESOLVED THAT _____, BE AND IS HEREBY
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-
FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON
BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS
AND TRANSACTIONS WITH THE PARISH OF JEFFERSON OR ANY OF ITS AGENCIES,
DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE
EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES,
CONTRACTS AND ACTS AND TO RECEIVE ALL PURCHASE ORDERS AND NOTICES
ISSUED PURSUANT TO THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS
CORPORATION HEREBY RATIFYING, APPROVING, CONFIRMING, AND ACCEPTING
EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-
FACT.

Please see attached signature authorization.

I HEREBY CERTIFY THE FOREGOING TO BE
A TRUE AND CORRECT COPY OF AN
EXCERPT OF THE MINUTES OF THE ABOVE
DATED MEETING OF THE BOARD OF
DIRECTORS OF SAID CORPORATION, AND
THE SAME HAS NOT BEEN REVOKED OR
RESCINDED.

SECRETARY-TREASURER

DATE



Agilent Technologies

**SIGNATURE AUTHORIZATION FOR BIDS, QUOTES,
CONTRACTS, BID BONDS AND PERFORMANCE BONDS**

RESOLVED: That, effective as of September 17, 2014, the Chief Financial Officer, Secretary and Assistant Secretary, and each of them, is hereby empowered on behalf of the Company to sign bids, quotations, leases and contracts with customers and government agencies, including such bids and performance bonds as may be required in connection with such bids and contracts, and each is further empowered to authorize employees of the Company to sign such bids, quotations, leases, contracts and bid and performance bonds.

I, Hajime Tada, do hereby certify that I am the Vice President and Deputy General Counsel of Agilent Technologies, Inc., a Delaware corporation (the "Company"); that the foregoing is a full, true and correct copy of the resolution adopted by the Board of Directors of the Company on September 17, 2014; and that the resolution has not been annulled, rescinded, or revoked and remains in full force and effect. I, Hajime Tada pursuant to authority granted to me by the Assistant Secretary of the Company, hereby authorize Georgeann Foster to sign bids, quotes, leases, contracts, bid bonds and performance bonds with government agencies and other customers on behalf of the Company, up to the amount of two million five hundred thousand U.S. dollars (\$2,500,000).

IN WITNESS WHEREOF, I have signed my name below.

Dated: May 4, 2015



Hajime Tada

Non-Public Works Bid Affidavit Instructions

- **Affidavit is supplied as a courtesy to Affiants, but it is the responsibility of the affiant to insure the affidavit they submit to Jefferson Parish complies, in both form and content, with federal, state and parish laws.**
- **Affidavit must be signed by an authorized representative of the entity or the affidavit will not be accepted.**
- **Affidavit must be notarized or the affidavit will not be accepted.**
- **Notary must sign name, print name, and include bar/notary number, or the affidavit will not be accepted.**
- **Affiant MUST select either A or B when required or the affidavit will not be accepted.**
- **Affiants who select choice A must include an attachment or the affidavit will not be accepted.**
- **If both choice A and B are selected, the affidavit will not be accepted.**
- **Affidavit marked N/A will not be accepted.**
- **It is the responsibility of the Affiant to submit a new affidavit if any additional campaign contributions are made after the affidavit is executed but prior to the time the council acts on the matter.**

Instruction sheet may be omitted when submitting the affidavit

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B There are NO debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

Georgeann Foster
Signature of Affiant

Georgeann Foster

Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

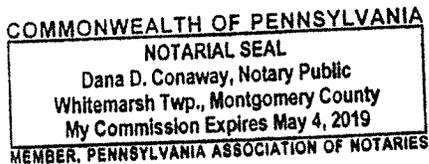
ON THE 19th DAY OF May, 2015.

Dana D. Conaway
Notary Public

Dana D. Conaway
Printed Name of Notary

1233219
Notary/Bar Roll Number

My commission expires May 4, 2019



Memorandum of Insurance

MEMORANDUM OF INSURANCE					DATE 10-Dec-2014	
<p>This Memorandum is issued as a matter of information only to authorized viewers for their internal use only and confers no rights upon any viewer of this Memorandum. This Memorandum does not amend, extend or alter the coverage described below. This Memorandum may only be copied, printed and distributed within an authorized viewer and may only be used and viewed by an authorized viewer for its internal use. Any other use, duplication or distribution of this Memorandum without the consent of Marsh is prohibited. "Authorized viewer" shall mean an entity or person which is authorized by the insured named herein to access this Memorandum via https://online.marsh.com/marshconnectpublic/marsh2/public/moi?client=2358. The information contained herein is as of the date referred to above. Marsh shall be under no obligation to update such information.</p>						
PRODUCER			COMPANIES AFFORDING COVERAGE			
Marsh USA Inc. dba Marsh USA Risk & Insurance Services ("Marsh")			Co.A Old Republic Insurance Company			
INSURED			Co.B			
Agilent Technologies, Inc. 5301 Stevens Creek Blvd. M/S 1B-08, Santa Clara California 95051 United States			Co.C			
			Co.D			
COVERAGES						
<p>THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS MEMORANDUM MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS</p>						
CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE	POLICY EXPIRATION DATE	LIMITS LIMITS IN USD UNLESS OTHERWISE INDICATED	
A	GENERAL LIABILITY Commercial General Liability Occurrence	MWZY 303008	01-NOV-2014	01-NOV-2015	GENERAL AGGREGATE	\$3,000,000
					PRODUCTS - COMP/OP AGG	\$3,000,000
					PERSONAL AND ADV INJURY	\$3,000,000
					EACH OCCURRENCE	\$3,000,000
					FIRE DAMAGE (ANY ONE FIRE)	\$3,000,000
					MED EXP (ANY ONE PERSON)	\$5,000
A	AUTOMOBILE LIABILITY Any Auto	MWTB 302649	01-NOV-2014	01-NOV-2015	COMBINED SINGLE LIMIT	\$3,000,000
					BODILY INJURY (PER PERSON)	
					BODILY INJURY (PER ACCIDENT)	
					PROPERTY DAMAGE	
	EXCESS LIABILITY				EACH OCCURENCE	
					AGGREGATE	
	GARAGE LIABILITY				AUTO ONLY (PER ACCIDENT)	
					OTHER THAN AUTO ONLY:	
					EACH ACCIDENT	
A		MWC 30300600	01-NOV-2014	01-NOV-2015	AGGREGATE	
					WORKERS COMP LIMITS	Statutory

WORKERS COMPENSATION / EMPLOYERS LIABILITY THE PROPRIETOR / PARTNERS / EXECUTIVE OFFICERS ARE Included				EL EACH ACCIDENT	\$3,000,000
				EL DISEASE - POLICY LIMIT	\$3,000,000
				EL DISEASE - EACH EMPLOYEE	\$3,000,000
The Memorandum of Insurance serves solely to list insurance policies, limits and dates of coverage. Any modifications hereto are not authorized.					

MEMORANDUM OF INSURANCE		DATE 10-Dec-2014
This Memorandum is issued as a matter of information only to authorized viewers for their internal use only and confers no rights upon any viewer of this Memorandum. This Memorandum does not amend, extend or alter the coverage described below. This Memorandum may only be copied, printed and distributed within an authorized viewer and may only be used and viewed by an authorized viewer for its internal use. Any other use, duplication or distribution of this Memorandum without the consent of Marsh is prohibited. "Authorized viewer" shall mean an entity or person which is authorized by the insured named herein to access this Memorandum via https://online.marsh.com/marshconnectpublic/marsh2/public/moi?client=2358 . The information contained herein is as of the date referred to above. Marsh shall be under no obligation to update such information.		
PRODUCER Marsh USA Inc. dba Marsh USA Risk & Insurance Services ("Marsh")	INSURED Agilent Technologies, Inc. 5301 Stevens Creek Blvd. M/S 1B-08, Santa Clara California 95051 United States	
ADDITIONAL INFORMATION Work Comp/Employers Liability All states coverage except CA, CO Work Comp excludes: ND, OH, WA & WY		
The Memorandum of Insurance serves solely to list insurance policies, limits and dates of coverage. Any modifications hereto are not authorized.		

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Kristen Ragan
 Chief Chemist
 Water Quality Lab
 Jefferson Parish
 Water Quality
 3600 Jefferson Hwy Bldg E
 JEFFERSON LA 70121-1728

Quotation

Quote No.	Create Date	Delivery Time	Page
1843229	05/11/2015	5 Weeks	1 of 7
Contact		Phone no.	Valid to
Kevin Fogg		972-699-2512	07/10/2015
To place an order: Call 1-800-227-9770 Option 1 For Instruments Fax : 302-633-8953 For Consumables Fax : 302-633-8901 Email : LSCAinstrumentsales@agilent.com For Genomics Fax: 512-321-3128 Email : orders@agilent.com For additional instructions, see last page			

Product/Description	Qty/Unit	Unit List Price	Discount Amount	Extended Net Price
8969 The product number listed below is a part of special 8969 GC/MSD TRADE-IN PROMOTION II (NAR). In order to be eligible for this promotion, all products within the promotional configuration must be ordered. No changes and/or substitutions will be allowed. All orders for this promotional special must be received on or before either the expiration date of this quotation as noted, or December 31, 2015, which is the expiration date of this promotion, whichever comes first. Delivery of products included in the promotion will be within Agilent's ability to ship.				
G3440B Agilent 7890B Series GC Custom. includes LAN interface, 7693 interface ,20-ramp oven programming, 6 heated zones, 2 analog out, keyboard and display pressure setpoints to 0.001psi (0-99 psi) "GC/MSD Trade-in Promotion II (NAR), number 8969 is included with this quotation/order. Special return terms and conditions apply.# With the following configuration: Ship-to Country : USA Country of Origin : China INERT Cap S/SL inlet with EPC-100psi Mass Spectrometer Detector Interface Three channels of auxiliary EPC Factory plumbing For quick installation Oven exhaust deflector Purged Union, Backflush Ready Installation (44K) Familiarization at Installation (44L)	1.000 EA	27,922.00 USD	8,376.60-	19,545.40
Special discount of 30.00 % is applied.				



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Product/Description	Qty/Unit	Unit List Price	Discount Amount	Extended Net Price
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8969
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G7042AA	1.000 EA	71,316.00 USD	21,394.80-	49,921.20
Agilent 5977A inert MSD with Data System, Performance Turbo Pump and Inert EI Source "GC/MSD Trade-in Promotion II (NAR), number 8969 is included with this quotation/order. Special return terms and conditions apply.#				

With the following configuration:
 Ship-to Country : USA
 Select MassHunter Familiarization Installation (44K)
 Familiarization at Installation (44L)
 1 Year Phone Assist (44W)

Special discount of 30.00 % is applied.

G3397B	1.000 EA	2,327.00 USD	581.75-	1,745.25
Ion Gauge Kit for 5977 MSD.				

With the following configuration:
 Ship-to Country : USA
 Installation (44K)

Special discount of 25.00 % is applied.



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Product/Description	Qty/Unit	Unit List Price	Discount Amount	Extended Net Price
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G1033A	1.000 EA	5,795.00 USD	1,448.75-	4,346.25
NIST 2014 MS Library Bundle includes 243k spectra with names, chemical structures, and retention indices. Includes MS/MS Spectra Lib, NIST search and AMDIS programs.				

With the following configuration:
 Ship-to Country : USA

Installation (44K)

Special discount of 25.00 % is applied.

G4513A	1.000 EA	7,452.00 USD	1,863.00-	5,589.00
7693A Autoinjector Includes transfer turret, 16-sample turret, mounting post, parking post for GC. 10ul syringe, and solvent bottles. 100% higher sample capacity than G2913A.				

With the following configuration:
 Ship-to Country : USA
 Installation (44K)
 Familiarization at Installation (44L)

Special discount of 25.00 % is applied.



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Product/Description	Qty/Unit	Unit List Price	Discount Amount	Extended Net Price
TMR-9800 Stratum PTC Sample Concentrator Includes 60" Siltek treated transferline ,tubing and treated fittings through sample pathway, heated sample mount, Dry flow Moisture System, U-trap technology. With the following configuration: Ship-to Country : USA Installation (44K) Familiarization at Installation (44L) Special discount of 20.00 % is applied.	1.000 EA	24,235.00 USD	4,847.00-	19,388.00
G3184-60065 Tee,inert for capillary flow technology Special discount of 25.00 % is applied.	1.000 EA	304.00 USD	76.00-	228.00
160-2255-5 FS,Deactivated -.250mm X 5m	1.000 EA	48.75 USD		48.75
G3188-27502 Ferrule, flexi, inert 0.32mm col 10/PK UltiMetal treated flexible metal ferrule	1.000 EA	65.20 USD		65.20



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Product/Description	Qty/Unit	Unit List Price	Discount Amount	Extended Net Price
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8765
 The product number listed below is a part of special 8765 Multiyear Service Contract Discounts for Point of Instrument Sale (POIS), number 8765. In order to be eligible for this promotion, all products within the promotional configuration must be ordered. No changes and/or substitutions will be allowed. All orders for this promotional special must be received on or before either the expiration date of this quotation as noted, or November 30, 2015, which is the expiration date of this promotion, whichever comes first. Delivery of products included in the promotion will be within Agilent's ability to ship.

SYS-GM-5977T	1.000 EA	20,556.00 USD	1,438.92-	19,117.08
GCMS 5977 Turbo System				
Multiyear service contract promotion discount is applied".				

Advantage Silver 3 years total

Promotion discount 7.00 %.

Gross Amount	:	\$	160,020.95
Total Discount	:	\$	40,026.82
Net Amount	:	\$	119,994.13
Total	:	\$	119,994.13



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Kevin Fogg		972-699-2512	07/10/2015
To place an order: Call 1-800-227-9770 Option 1 For Instruments Fax : 302-633-8953 For Consumables Fax : 302-633-8901 Email : LSCAinstrumentsales@agilent.com For Genomics Fax : 512-321-3128 Email : orders@agilent.com			

TO PLACE AN ORDER, Agilent offers several options:

- 1) Visit <http://www.agilent.com/chem/supplies> to place online orders using a purchase order or credit card.
- 2) Call 1-800-227-9770 (option 1) any weekday between 8am and 8 pm Eastern time in the U.S., Canada & Puerto Rico.
- 3) To place an order for Consumables, please fax the order to 302-633-8901.
To place an instrument and/or software order, please fax the order to 302-633-8953.
To place an order for Genomics, please fax the order to 512-321-3128, or email to orders@agilent.com
- 4) Or you can mail your order to:
Agilent Technologies
North American Customer Contact Center
2850 Centerville Road BU3-2
Wilmington, DE 19808-1610

To place an order, the following information is required:

- Purchase order number or credit card, delivery date, ship to, invoice to, end user, and quote number.
- GSA customers please provide GSA contract #.

EXCLUSIVE OFFERS FOR NEW INSTRUMENT CUSTOMERS, go to www.agilent.com/chem/exclusiveoffers

TO CHECK THE STATUS OF AN ORDER:

- 1) Visit <http://www.agilent.com/chem/supplies> to check the status of your order.
- 2) Call 1-800-227-9770 (option 1) any weekday between 8 am and 8 pm Eastern time, in the U.S., Canada & Puerto Rico. You will need to know the purchase order or credit card number the order was placed on.

FINANCING AND LEASING - A wide range of options are available from Agilent's preferred financing partner, Leasing Group Inc. (LGI).

For more information or to discuss how monthly payments could suit your operational or budgetary requirements, contact your Agilent Account Manager or contact LGI at 800-944-1370.

TERMS AND CONDITIONS:

- Pricing: Web prices are provided only for the U.S. in U.S.dollars. All phone prices are in local currency and for end use. Applicable local taxes are applied.
 - All Sales Tax is subject to change at the time of order.
 - Shipping and Handling Charges: Orders with a value less than \$4000 or those requiring special services such as overnight delivery may be subject to additional shipping & handling fees. Some of these charges may be avoided by ordering via the Web
 - Payment Terms: Net 30 days from invoice date, subject to credit approval.
- * Quotation Validity: This quotation is valid for 60 days unless otherwise indicated.
* Warranty period for instrumentation is 1 year. The Warranty period for columns and consumables is 90 days.
- Visit www.agilent.com/chem
- For Training course information and registration including e-Seminars, select [Education](#).
 - For Literature, Application notes, and other information, select [Library](#).
 - For Online Technical Support including the Technical Support Assistant and Frequently Asked Questions, select [Technical Support](#).

It is Agilent Technologies intent to ship product at the earliest available date unless specified otherwise.



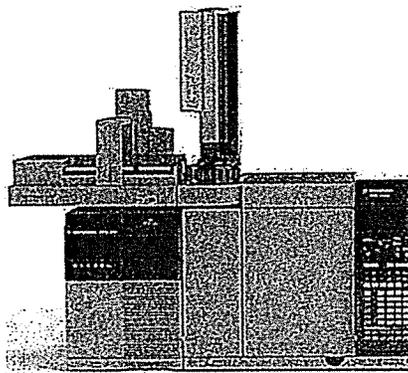
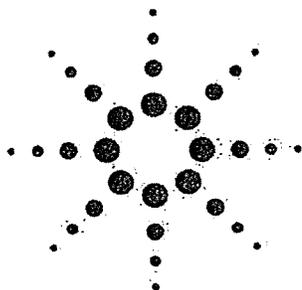
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Agilent 5977A Series GC/MSD System Data Sheet



GC/MSD

The Agilent 7890B/5977A Series Gas Chromatograph/Mass Selective Detector builds on a 45-year tradition of leadership in GC and MS technology. This advanced GC/MSD platform delivers a higher level of performance and productivity with:

- The industry's highest S/N and lowest IDL
- The power and flexibility of both Classic MSD ChemStation and new MassHunter Quantitative and Qualitative Analysis
- Eco-friendly features that save energy and time
- Integrated Intelligence to support methods development and system optimization
- Enhanced communication between the GC and MSD for more efficient and safer operation

Mass Selective Detector

• EI source	Standard Inert or high sensitivity Extractor
• CI source	PCI, NCI, and EI acquisition
• Ion source temperature	150–350 °C
• Quadrupole temperature	100–200 °C
• Mass filter	Monolithic hyperbolic quadrupole
• Mass range	1.6–1,050 u
• Mass axis stability	Better than 0.10 u/48 h
• Detector	Triple-Axis Detector with long life EM

Gas Chromatograph

• Gas chromatograph	Agilent 7890B
• Autosampler	Agilent 7693, 7650, CombiPAL, 7697 headspace and other third party autosamplers
• Oven temperature	Ambient +4 – 450 °C Ambient +5 – 350 °C
• Oven ramps/plateaus	7890B Supports 20 oven ramps with 21 plateaus. Negative ramps are allowed.
• Retention-time locking	RTL-ready

Data System

Software	GC/MSD MassHunter Acquisition with both MassHunter and Classic ChemStation Data Analysis
Simultaneous signal acquisition	Simultaneous support of two MSDs and four GC detectors
SIM/Scan	Automated SIM setup and synchronous SIM/scan operation
Application autotunes	One-click autotune for BFB, DFTPP

Optional Libraries and Software Tools

Spectral libraries	NIST, Wiley/NIST, Maurer-Pfleger-Weber Drug
Spectral DRS and RTL	Pesticides and endocrine disrupter databases, volatiles, PCBs, toxicology, hazardous chemicals, indoor air toxics, Japan Positive List, forensic toxicology, environment semivolatiles, and several user contributed libraries
21CFR11 Compliance	MassHunter Data Acquisition and Quantitative Data Analysis
Multivariate analysis	Mass Profiler Professional

Physical Requirements with the Agilent 7890B

Dimensions (GC/MS)	88 cm (w), 56 cm (d), 50 cm (h) Additional space should be added for the auto injector, sample tray, data system and printer.
Weight (GC/MS)	81 to 96 kg (depending on configuration)

Installation Checkout Specifications

EI SIM IDL (Helium carrier gas with Auto Liquid Sampler)	10 fg or less IDL for Extractor ion source, turbo molecular pump system 24 fg or less for Inert EI source, turbo molecular pump system 30 fg or less for Inert EI source, diffusion pump system IDL statistically derived at 95% confidence level from the area precision of eight sequential splitless injections of 100 fg OFN, monitoring m/z 272.
EI scan S/N (Helium carrier gas manual injection)	1500:1 or higher S/N for Extractor ion source, turbo molecular pump system 600:1 or higher for Inert EI ion Source, turbo molecular pump system 360:1 or higher for Inert EI ion Source, diffusion pump system These numbers will be given by 1- μ L injection of 1 pg/ μ L OFN standard scanning from 50 to 300 u at nominal 272.0 u ion.
PCI scan S/N (Methane)	125:1 S/N will be given by 1- μ L injection of 100 pg/ μ L BZP ¹ standard scanning from 50 to 230 u at nominal 183 u ion
NCI scan S/N (Methane)	600:1 S/N will be given by 2- μ L injection of 100 fg/ μ L OFN standard scanning from 50 to 300 u at nominal 272 u ion

¹Octafluoronaphthalene (OFN)

²Benzophenone (BZP)

For More Information

For more information on our products and services, visit our Web site at www.agilent.com/chem.

www.agilent.com/chem/5977A

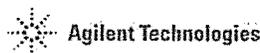
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Printed in the USA

January 31, 2013

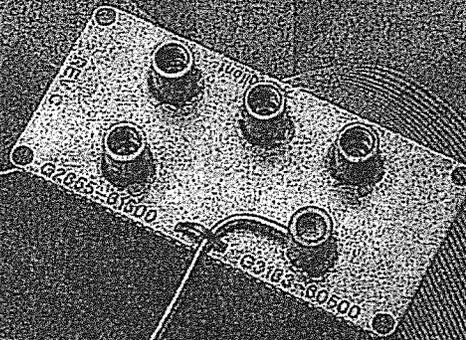
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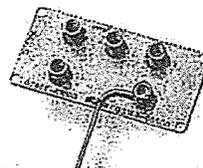
Capillary Flow Technology: Splitters

GET MORE INFORMATION IN LESS TIME

The Measure of Confidence



A time-saving alternative to running samples on multiple GCs



Analyzing complex samples may require different types of specific GC detectors in order to meet detection limits, overcome matrix interferences, or confirm unknown peaks. Forensic analysis often requires mass spectrometry to produce defensible data for possible use in a criminal trial. Therefore, it is not unusual in such situations to run a sample multiple times on different GC systems, each with a dedicated detector. Agilent offers a time-saving alternative; use our Capillary Flow Technology Splitter to split effluent from a single column to two or three detectors on the same GC.

While the use of splitters is not new, the technique has been limited in its use due to technical challenges with the splitting hardware. For instance, optimal performance requires that a splitter be inert, have low thermal mass and dead volume, be leak free, allow no outgassing from sealing materials, and be capable of withstanding the temperatures used in the GC analysis.

HERE'S HOW AGILENT'S TECHNOLOGY OVERCOMES PREVIOUS SPLITTER CHALLENGES:

Challenges	The Agilent Solution
<p>With traditional splitters:</p> <ul style="list-style-type: none"> ▪ Glass "V" connectors can be difficult to assemble correctly, and the column or fused silica tubing can sometimes detach upon thermal cycling of the oven. ▪ Some splitters use polyimide ferrules, which can outgas at high temperatures and develop leaks upon thermal cycling due to shrinkage of the polymer. ▪ Graphite ferrule splitters eliminate thermal cycling problems but may have trouble with inertness; they can outgas contaminants at high temperatures and can shed active particles into the sample path. ▪ There is the risk of atmospheric detector gas "leaking" into the mass spectrometer if make-up gas is not used for pressure compensation. ▪ The split ratio on various detectors depends on the length and internal diameter (i.d.) of the restrictor tubing. Selecting the correct dimensions requires calculations that can impact the chromatography, especially if using a mass spectrometer (vacuum). 	<p>With Agilent's Capillary Flow Technology Splitter modules:</p> <ul style="list-style-type: none"> ▪ The column and restrictors leading to the detectors attach to the module using metal ferrules that do not outgas, do not shed particles, will not detach, and eliminate leaks (even after oven cycles with temperatures as high as 350 °C). ▪ All surfaces are deactivated for a completely inert sample path. ▪ Aux EPC can be used to ensure there is no backflow of gas from a GC detector to an MSD, protecting the source from possible damage. ▪ A simple calculator, based on Microsoft® Excel, is used to determine the restrictor dimensions needed to attain a specific split ratio. See tips and tools for more information.

How it works...

AGILENT OFFERS SEVERAL DIFFERENT SPLITTERS THAT USE OUR PROPRIETARY CAPILLARY FLOW TECHNOLOGY

1. Two-way splitter without makeup gas. This splitter divides the column effluent to two different detectors. It is useful for labs that set up a single configuration and use it without changing columns or parameters frequently. It is best used with column flows greater than 2 mL/min and with atmospheric pressure detectors. While it can be used for splitting to an MSD if care is taken in the setup, a two-way or three-way splitter with makeup gas is strongly recommended for MSD applications.

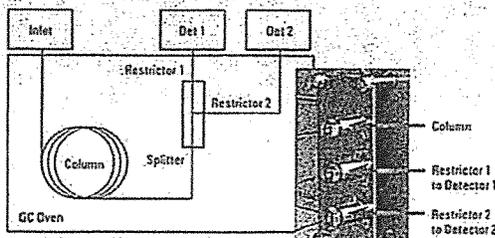


Figure 1. Plumbing diagram for the two-way splitter without makeup gas

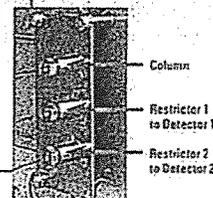


Figure 2. Two-way splitter without makeup gas connections

2. Two-way splitter with makeup gas. This splitter uses a source of makeup gas supplied by electronic pneumatics control (EPC). Use of an Aux EPC module maintains the splitter at a known and constant pressure, which allows easier splitting to vacuum detectors such as the MSD. It simplifies the choice of splitter parameters, allowing all aspects of the chromatographic setup to be calculated. Constant pressure makeup allows the column to be run in constant flow mode. At the same time, a constant split ratio is maintained between two detectors of different operating pressures, such as the FPD and the MSD. Because the EPC pressure can be time programmed, useful operations like backflushing unwanted heavy materials from the column and changing columns in MSD systems without venting, are possible.

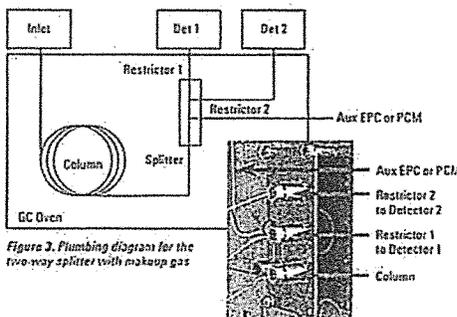


Figure 3. Plumbing diagram for the two-way splitter with makeup gas

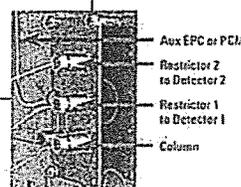


Figure 4. Two-way splitter with makeup gas connections

3. Three-way splitter with makeup gas. This splitter operates the same as the two-way splitter with makeup gas, but divides the effluent from a column among three different detectors.

Note: A purged capillary flow device, such as a splitter, introduces an additional flow in the sample stream. For detectors that operate at low flow rates, like the MSD and TCD, some decrease in sensitivity will occur.

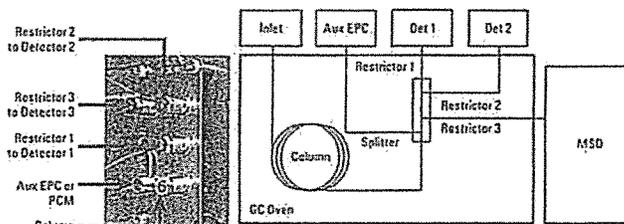


Figure 5. Plumbing diagram for the three-way splitter with makeup gas

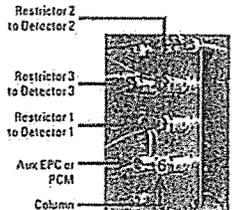


Figure 6. Three-way splitter with makeup gas connections

To learn how you can increase productivity in your lab, visit www.agilent.com/chem/CapillaryFlowTechnology

Simultaneously collect data from multiple detectors

Laboratories that perform toxicology screens on forensic samples must rise to the challenge of having to analyze large numbers of samples containing complex matrix interferences. The Agilent system addresses these demands by combining fast GC to reduce the run time; the use of a Capillary Flow Technology splitter to simultaneously collect scan, SIM, and

NPD data and backflush to prevent heavy matrix components from fouling the detectors; and Deconvolution Reporting Software (DRS) to simplify data interpretation. Total time savings was greater than 85%, not including the time saved by using DRS.

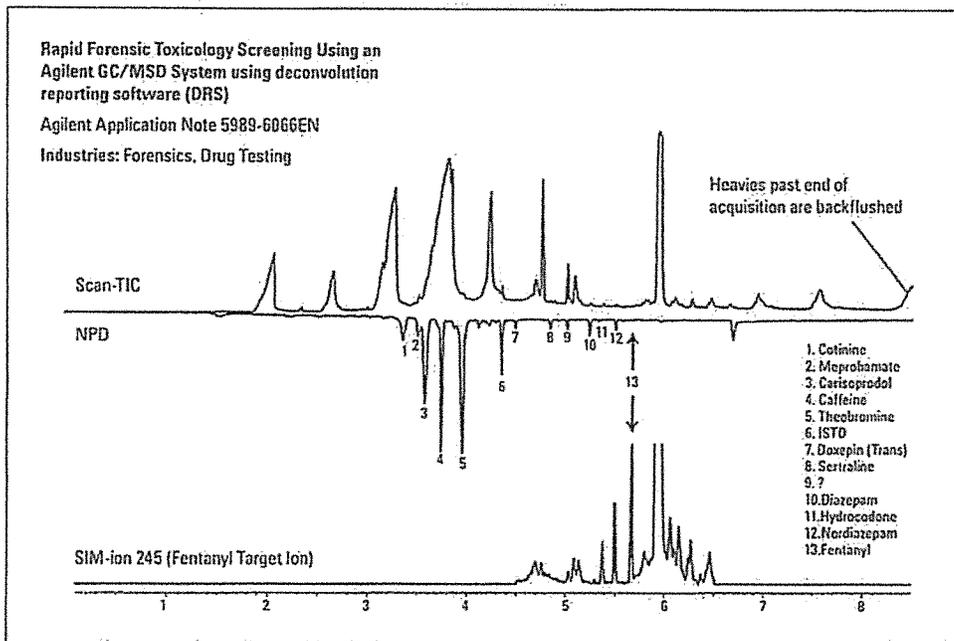
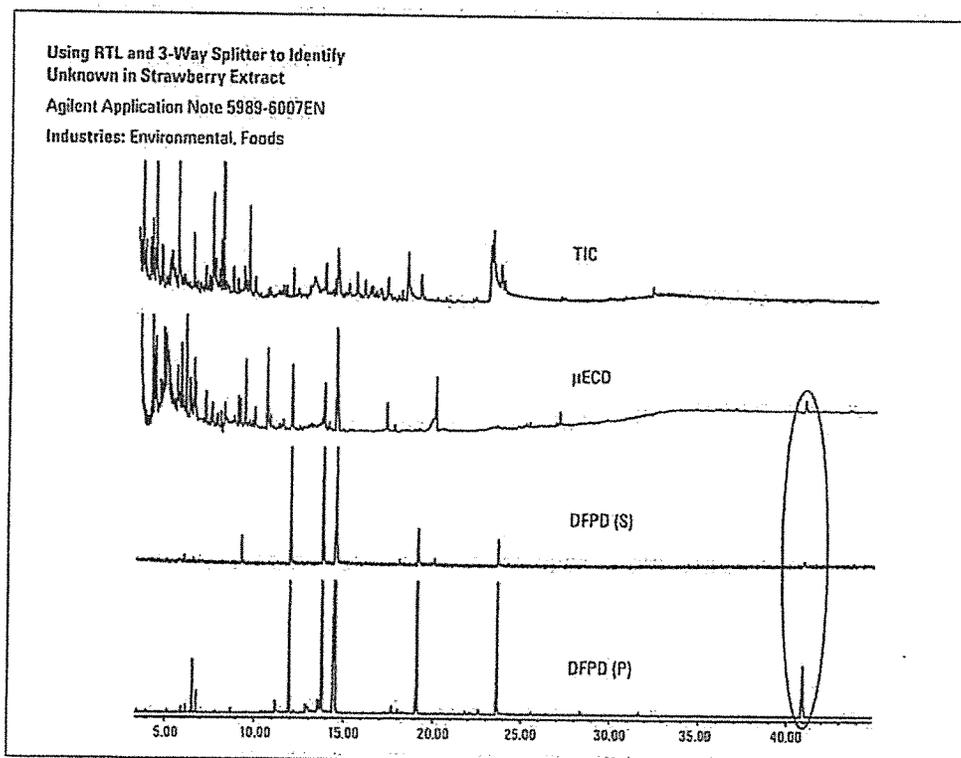


Figure 7. Chromatogram from screen of whole blood sample

Detect unknown trace pesticide residue without full-scan MS

Fruit and vegetable extracts are typically very complex to analyze. It is common to use selective GC detectors, such as NPD, ECD, and FPD, to look for trace pesticide residues in the extracts. Mass spectrometry is most often used to confirm the hits from GC detectors. Figure 8 shows how the column effluent can be split three ways to two GC detectors and an MSD. The splitter system is therefore capable of providing up to four

signals (two GC signals, SIM, and full-scan chromatograms) from a single injection. By combining RTL, element-selective detector chromatograms, and the RTL pesticide database, a trace level pesticide residue was identified without the full-scan mass spectrum.



To learn how you can increase productivity in your lab, visit www.agilent.com/chem/CapillaryFlowTechnology

Backflush reduces sample turnaround time

This example illustrates the use of a two-way splitter with makeup gas to backflush late-eluting impurities and high-boiling solvents/diluents in the analysis of residual solvents by headspace extraction and GC. Along with a faster oven cool-down possible with the 7890 GC, backflushing decreases the sample turnaround time.

Improved Retention Time,
Area Repeatability, and
Sensitivity for Analysis of
Residual Solvents

Agilent Application Note
5989-6079EN

Industries: Pharmaceutical

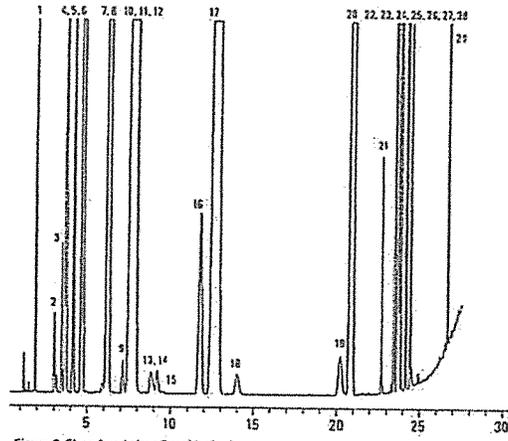


Figure 9. Class 1 and class 2 residual solvents

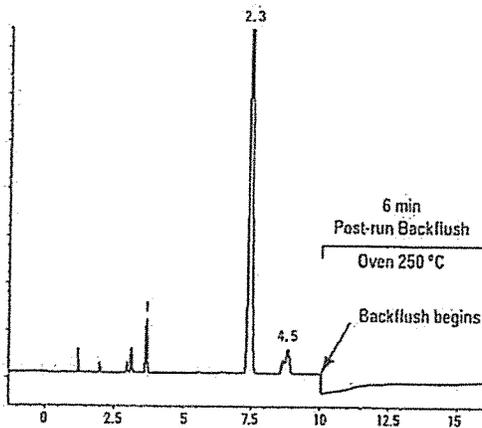


Figure 10. Backflush of class 1 residual solvents

1. Methanol
2. 1,1 Dichloroethylene
3. Acetonitrile
4. Methylene chloride
5. Trans 1,2 dichloroethene
6. Hexane
7. Cis 1,2 dichloroethene
8. Nitrobenzene (co-elute with 7)
9. Trichloroethane
10. Carbon tetrachloride
11. Cyclohexane
(co-elute with 10 and 12)
12. 1,1,1 trichloroethane
(co-elute with 10 and 11)
13. Benzene
14. 1,2 dimethoxyethane
15. 1,2 dichloroethane
16. Trichloroethylene
17. Methyl cyclohexane
18. 1,4 dioxane
19. Pyridine
20. Toluene
21. 2 hexanone
22. Chlorobenzene
23. Ethylbenzene
24. DMF
25. M-xylene
26. P-xylene
27. O-xylene
28. N,N dimethylacetamide
29. Tetralin

1. 1,1 dichloroethene
2. Carbon tetrachloride
3. 1,1,1 trichloroethane
4. Benzene
5. 1,2 dichloroethane

Other uses for a three-way splitter

Think of Capillary Flow Technology modules as flow "building blocks" that can be configured in different ways to accomplish different tasks. For instance:

Two-Way Splitter

By plugging one of the ports, a three-way splitter can be used as a two-way splitter. A typical three-way splitter plumbing configuration is shown in Figure 11.

Figure 12 depicts how the three-way splitter is converted to a two-way splitter. Port 1 is plugged (the plug can be made from a nut and ferrule plus a short length of stainless steel wire included in the splitter kit) and the column is connected to port 2. The two detector restrictors are connected to ports 3 and 4.

Two Different Columns In, Two Detectors Out

Using the setup shown in Figure 13, a method can be used to inject into inlet 1 and column 1 while column 2 is unused. Inlet 2 pressure is set at a low level that produces a small purge flow (at least 0.5 mL/min) through column 2. A second method can reverse the situation, purging column 1 while analyzing with inlet 2 and column 2.

This can be useful for laboratories that frequently need to use columns with different phases. Setup is the same as that for a two-way splitter, except that column flow in the calculations now equals the sum of the flows from columns 1 and 2.

Because the bleed from both columns enters the detectors simultaneously, low-bleed stationary phases should be used in this configuration.

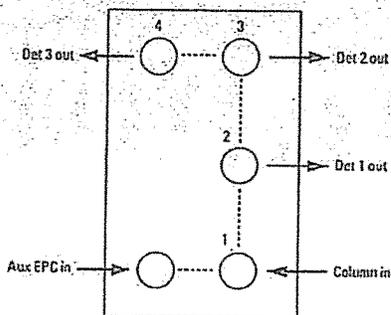


Figure 11. Typical three-way splitter plumbing configuration

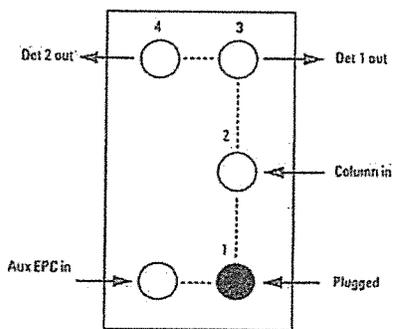


Figure 12. Three-way splitter configured as a two-way splitter

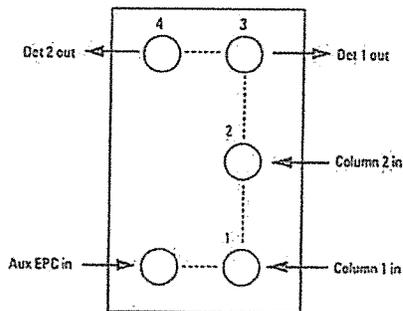
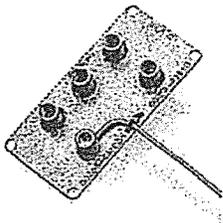


Figure 13. Column 2 is unused

To learn how you can increase productivity in your lab, visit www.agilent.com/chem/CapillaryFlowTechnology

**What you need
to get faster analysis results**



7890 GC or 6890N GC with two or three detectors

Splitter option or accessory

- On-site installation and verification are strongly recommended.

Aux EPC module

- Aux EPC Purge Regulator Kit is recommended.
- PCM can be used in place of Aux EPC but is not recommended for this application.

High-temperature SiTite ferrules and fittings

Deactivated silica tubing for detector restrictors

Splitter calculator software (included with the splitter option and accessory)

- Calculates the restrictor dimensions (internal diameter and length) required to obtain a desired split ratio from the column to the multiple detectors.
- A set of eight typical configurations have been pre-calculated and are available in the operator manual for each of the splitters. They apply to a wide variety of detector combinations and split ratios.

Microsoft[®] Excel 97 or later

For more information

Read: Agilent G3181B Two-Way Splitter Kit Without Makeup Gas Installation and Operation Guide Agilent Manual, G3181-90120;
Agilent G3180B Two-Way Splitter Kit With Makeup Gas Installation and Operation Guide Agilent Manual, G3180-90120;
Agilent G3183B Three-Way Splitter Kit Installation and Operation Guide; Agilent Manual, G3183-90120

Learn more: www.agilent.com/chem/CapillaryFlowTechnology

Buy online or find an Agilent customer center in your country:
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Agilent Technologies

Capillary Flow Technology: Purged Ultimate Union

**REDUCE DOWNTIME AND INCREASE
YOUR LAB'S PRODUCTIVITY**

The Measure of Confidence

Perform reliable routine maintenance in a matter of minutes, not hours



Routine operation of any GC/MS system typically requires occasional maintenance of the inlet and column. The mass spectrometer must be shut down to cool and vent the system. Once maintenance is complete, the system must be restarted, pumped down, and baked out before samples can be run again, resulting in significant downtime.

Laboratories could benefit from a reliable way to conduct routine maintenance on a GC/MS system without cooling and venting – especially for high-throughput operations. However, previous attempts at designing a suitable quick-maintenance flow system have had a number of drawbacks:

- » Large metal fittings with high thermal mass do not track oven temperatures well
- » Many oven temperature cycles can cause leaks over time, risking damage to the MS source
- » Internal surfaces are not inert, leading to peak broadening or loss of analytes

The Purged Ultimate Union provides an effective solution without the drawbacks

Agilent's Capillary Flow Technology Purged Ultimate Union, sometimes referred to as the pressure-controlled tee (PCT), is designed to provide simple backflush to an existing GC or GC/MS method. It addresses all drawbacks while facilitating:

- Fast column removal or replacement without the need to cool and vent the MSD
- Risk-free inlet and column maintenance by preventing air from entering the MSD
- Shorter analysis times and increased sample throughput by removal of high molecular weight compounds using backflushing mode

How it works...

THE VERSATILITY TO PERFORM CONCURRENT AND POST-RUN BACKFLUSH

Configurations for backflush:

The basic configuration for the Purged Ultimate Union is one inlet (S/SL, MMI or PTV) to one detector. However, it can be used in several backflush configurations.

Post-Column: backflush wizard adjusts conditions to offset change in outlet pressure caused by the source controlling the flow for the short post column.

Coated and Uncoated Pre-Column:* requires two columns with options of two equal lengths connected by purged union at midpoint or the purged union joining a shorter (5 m) first section with a longer (15 m) second section.

Modes for backflush:

Post-run: easiest to configure; backflush occurs after last peak of interest can be implemented.

Concurrent: backflush occurs during data collection, eliminating the need for a post run program, saving time and improving lab productivity.

*Recommended for use only as short retention gaps and not in equal length to the second column.

Simplify maintenance without affecting detection limits

Applying backflushing helps maintain the GC and the MS source by removing later eluting compounds from the column before reaching the MS, and prior to the next sample injection. This example shows the results of the Purged Ultimate Union (PCT) configuration for rapid and universal GC/MS backflushing, applied to selected reaction monitoring. Using a simple PCT configuration, quick column and inlet maintenance can be performed without venting the MS system or hindering detection limits.

Replicate injections showed no statistically significant difference between the peak areas or heights for the 272 & 241 m/z transition (Table 1). Moreover, retention time reproducibility was unaffected by adding PCT, and a standard deviation of less than 0.1 seconds was achieved both with and without the PCT. (Absolute retention times can shift slightly due to a minor difference in the absolute flows and lengths). Signal-to-noise was also indistinguishable between the two configurations, although noise is uniformly low in selected reaction mode. The degree of correspondence is best illustrated in Figure 1.

Maintain retention times with backflush and the Purged Ultimate Union

The Pressure Controlled Tee configuration provides a simple approach to rapid backflushing and GC-serving on all MS systems. If retention times can be permanent on any system, complex MS acquisition methods – such as selected ion monitoring and multiple reaction monitoring (MRM) modes – need not be changed when columns are trimmed or replaced. Similarly, compound retention times are unchanged in data analysis, which simplifies identification, quantitation and the use of databases of compound retention times. Applying simple “Mechanical Retention Time Locking” quickly returns the GC/MS to acquisition without method changes or additional complexity (Table 2).

For an example of how to generate compound retention times that are permanent and universal through Retention Time Locking, see Agilent Application Note 5990-4643EN.

Configuration	Inlet Vent (s)	Normalized MRM Signal	ASD (%)	Normalized MRM Signal	ASD (%)	Normalized MRM Signal
Continuous column without PCT	0.053	1	14	1	15	1
With PCT	0.059	1.1	15	1.0	16	1.2

Table 1. Comparison between PCT and Continuous Column configurations for MRM 272 → 241 (OPN). To simplify the comparison, the results for the peak area, height and signal-to-noise (S/N) ratio have been normalized against the standard configuration.

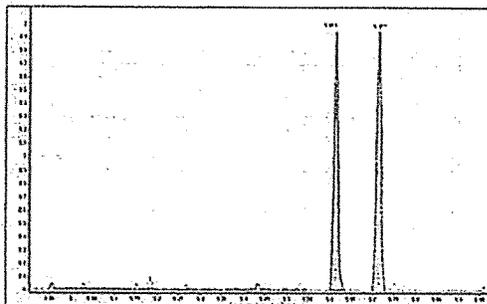
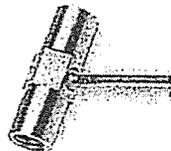


Figure 1. OIN 272 & 241 m/z transition without the PCT (5.614 min) and using the PCT (5.715 min). The same absolute abundance scale is applied to both.

Compound	Retention
Dichlorvos	-0.55
Mevinphos	-0.55
Ethionphos	-0.9
Sulfotep	-0.35
Phorate	-0.95
Fenoxon	-0.54
Diazinon	-0.48
Disulfoton	-0.48
Chlorpyrifos Methyl	0.05
Methyl parathion	-0.78
Fenitrothion	-0.42
Fenitrothion	-0.42
Malathion	-0.12
Chlorpyrifos	-0.12
Fenitrothion	-0.35
TetraMevinphos	0.12
Fenitrothion	0
Prothiofos	0.05
S,S-Tributylphosphoro	0.12
Ethion	0.48
Sulprofos	0.19
Carbophenothion	0.15
EPN	0.42
Azinphos-methyl	0.35
Azinphos ethyl	0.72
Coenaphos	2.3

Table 2. Illustration of selected retention time error results using the purged and non-purged union.

What is required?



7890 GC or 6890N GC with 5977A Series GC/MSD

Purged Ultimate Union accessory

- On-site installation and verification are strongly recommended

Aux EPC module

- Aux EPC Purge Regulator Kit is recommended

High-temperature Silitite ferrules and fittings

- Included with Purged Ultimate Union option and accessory

Restrictor

- 2 each of 100- and 110- μ m id restrictors included with Purged Ultimate Union option and accessory

Flow Calculator or Method Translation Software

- Included with Purged Ultimate Union option and accessory

For more information

Learn more about Agilent's Capillary Flow Technology at
agilent.com/chem/CapillaryFlowTechnology

Buy online or find an Agilent customer center in your country:
agilent.com/chem/contactus

U.S. and Canada: 1-800-227-9770 or agilent_inquiries@agilent.com

Europe: info_agilent@agilent.com

Asia Pacific: adinquiry_aplsc@agilent.com

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5991-1114EN



Agilent Technologies



Bid Number 50 – 00113239

**LABOR, MATERIALS AND EQUIPMENT NECESSARY TO SUPPLY AND
INSTALL A GAS CHROMATOGRAPH AND RELATED ACCESSORIES FOR
THE JEFFERSON PARISH DEPARTMENT OF PUBLIC WORKS –WATER**

Bid Opening Date: June 2, 2015 at 2:00 p.m., local time

ATTENTION VENDORS!!!

**Please review all pages and respond accordingly, complying with all provisions
in the technical specifications and Jefferson Parish Instructions for Bidders and
General Terms and Conditions. All bids must be received in the Purchasing
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General Government Building, Suite 4400
Gretna, LA 70053
Buyer's Name: Ms. Sidney Duffy, Buyer II
Buyer's Email: sduffy@jeffparish.net
Buyer's Phone: (504) 364-2682**

120776

Request for Taxpayer Identification Number and Certification

Give Form to the
requester. Do not
send to the IRS.

Print or type
See Specific Instructions on page 2.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.

AGILENT TECHNOLOGIES, INC. & SUBSIDIARIES

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification; check only one of the following seven boxes:

- Individual/sole proprietor or single-member LLC
- C Corporation
- S Corporation
- Partnership
- Trust/estate
- Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____
- Other (see instructions) ▶ _____

Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner.

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) 5

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.)

5301 STEVENS CREEK BLVD

6 City, state, and ZIP code

SANTA CLARA, CA 95051

Requester's name and address (optional)

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Social security number

				-						
--	--	--	--	---	--	--	--	--	--	--

OR

Employer identification number

7	7	-	0	5	1	8	7	7	2
---	---	---	---	---	---	---	---	---	---

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here

Signature of U.S. person ▶

Keith A. Strider

Date ▶

1/22/15

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.irs.gov/fw9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-1 (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding?* on page 2.

By signing the filled-out form, you:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued).
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
- Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.