

**NOTICE OF INTENDED DECISION
TO ENTER INTO A SINGLE SOURCE CONTRACT
(PUR 7778)**

This notice of intended decision to enter into a single source contract is posted in accordance with section 287.057(5)(c), Florida Statutes.

AGENCY	Florida Department of Environmental Protection	
TITLE	Purchase of Agilent Gas Chromatograph/Triple-Quadruple Mass Spectrometer	
CONTACT:		
Name:	Rebecca D. Hale	
Address:	Procurement Section, 3800 Commonwealth Blvd., MS#93, Tallahassee, FL 32399-3000	
Telephone:	850-245-2367	
Email:	Rebecca.hale@dep.state.fl.us	
Internal Tracking number, if any:	<u>DEP 15/16 SSA012</u>	
DMS Single Source number, if applicable	_____	
Date Posted:	<u>Monday, April 18, 2016</u>	Time Posted: <u>12:15pm</u>

Commodity or Service Required (commodity class and group, manufacturer, model, and description, as appropriate):

41115700 Chromatographic measuring instruments and accessories

Requestor (division, bureau, office, individual, as appropriate): Candance Sereico, Florida DEP Laboratories

Performance and/or Design Requirements (intended use, function or application, compatibility etc. requirements; reference to policy, rule, statute or other act of the Legislature, etc., as appropriate):

The Florida DEP Laboratories, Chemistry Program wishes to purchase upgrades for both of its AA3 continuous flow analyzers to improve instrument performance. The upgrades include pumps, chemistry modules, and detectors.

Intended source (vendor, contractor): Agilent Technologies, Inc.

Price: \$207,559.04

Justification for single source acquisition (what is necessary and unique about the product, service or source; steps taken to confirm unavailability of competition, as appropriate):

The Florida DEP Laboratories, Chemistry Program seeks to acquire a gas chromatograph/mass spectrometer triple quadruple (GC/MS-MS) system as part of our continuing efforts to transition pesticides analysis to mass spectrometry technologies. To be adequately meet the needs of the chemistry laboratory it is imperative to obtain new instrumentation as part of this transition.

The Department advertised this single source request on the DMS Vendor Bid System (VBS) from Monday, April 4, 2016 through Tuesday, April 12, 2016.

Approved By (names & titles, as appropriate, e.g., requestor, requestor management, information systems, budget, purchasing, DMS approver):

Kerry Tate, Florida DEP Laboratories
Timothy Fitzpatrick, Florida DEP Laboratories
Sara Amour, Florida DEP Laboratories
Liang Lin, Florida DEP Laboratories
David D. Whiting, Florida DEP Laboratories
Thomas Frick, Department of Environmental Assessment and Restoration
Rebecca D. Hale, Procurement Section
Janice Pursley, Procurement Section

Failure to file a protest within the time prescribed in section 120.57(3), Florida Statutes, or failure to file a bond or other security within the time allowed for filing a bond, shall constitute a waiver of proceedings under Chapter 120, Florida Statutes.

**ATTESTATION OF NO CONFLICT
(PUR7662)**

Instructions: Individuals required by s. 287.057(20), F.S. to attest that they are independent of and have no conflict of interest in an entity evaluated and selected as a part of a procurement accomplished without competition, must sign this form.

Reference:

Vendor/Contractor: Agilent Technologies, Inc. Requisition/Purchase Order, or Other Tracking Number: DEP 15/16 SSA012

Each undersigned individual hereby attest that he/she took part in the non-competitive procurement identified above and that he/she is independent of, and has no conflict of interest in, the entity evaluated and selected.

<u>Kerry Tate</u>	<u>3-29-2016</u>
Kerry Tate	Date
<u>Timothy Fitzpatrick</u>	<u>3-29-16</u>
Timothy Fitzpatrick	Date
<u>Sara E. Armour</u>	<u>3-30-16</u>
Sara Armour	Date
<u>Liang Lin</u>	<u>3-29-16</u>
Liang Lin	Date
<u>David D. Whiting</u>	<u>3/29/16</u>
David D. Whiting	Date
<u>Thomas Frick</u>	<u>3/30/16</u>
Thomas Frick	Date
<u>Rebecca D. Hale</u>	<u>4/1/16</u>
Rebecca D. Hale	Date
<u>Janice Pursley</u>	<u>4/1/16</u>
Janice Pursley	Date

DESCRIPTION OF INTENDED
SINGLE SOURCE PURCHASE
(PUR 7776)

<u>AGENCY</u>	Florida Department of Environmental Protection	
<u>TITLE</u>	Purchase of Agilent Gas Chromatograph/Triple-Quadruple Mass Spectrometer	
<u>CONTACT</u>		
Name:	Rebecca D. Hale	
Address:	Procurement Section, 3800 Commonwealth Blvd., MS#93, Tallahassee, FL 32399-3000	
Telephone:	850-245-2367	
Email:	Rebecca.hale@dep.state.fl.us	
Internal Tracking No.:	<u>DEP 15/16 SSA012</u>	
Date Posted:	<u>Monday, April 4, 2016 @ 8:30am</u>	Last day for receipt of information: <u>Tuesday, April 12, 2016@ 8:30am</u>

This description of commodities or contractual services intended for purchase from a single source is posted in accordance with section 287.057(3)(c), Florida Statutes and will remain posted for a period of at least 7 business days.

Commodity or Service Required (commodity class and group, manufacturer, model, and description, as appropriate):

41115700 Chromatographic measuring instruments and accessories

Quantity or Term as appropriate): **One time purchase**

Requestor (division, bureau, office, individual, as appropriate): **Candance Sereico, Florida DEP Laboratories**

Performance and/or Design Requirements (intended use, function or application, compatibility etc. requirements; reference to policy, rule, statute or other act of the Legislature, etc., as appropriate): The Florida DEP Laboratories, Chemistry Program seeks to acquire a gas chromatograph/mass spectrometer triple quadruple (GC/MS-MS) system as part of our continuing efforts to transition pesticides analysis to mass spectrometry technologies. To be adequately meet the needs of the chemistry laboratory it is imperative to obtain new instrumentation as part of this transition.

Intended source (vendor, contractor): **Agilent Technologies, Inc.**

Estimated Dollar Amount: **\$207,559.04**

Justification for single source acquisition (what is necessary and unique about the product, service or source; steps taken to confirm unavailability of competition, as appropriate):

The Florida Department of Environmental Protection, Chemistry Section, seeks to acquire a gas chromatograph/mass spectrometer triple quadrupole (GC/MS-MS) system as part of our continuing efforts to transition pesticides analysis to mass spectrometry technologies. To adequately meet the needs of the chemistry laboratory it is imperative to obtain new instrumentation as part of this transition.

The GC/MS-MS specifications, computer software, and data file format for the new instrument must be compatible with our existing equipment in order to maintain laboratory consistency, exchangeability, and integration. To adequately meet the needs of the chemistry laboratory, the GC/MS-MS system must meet or exceed the following requirements and specifications. The instrument system consist of a gas chromatograph, mass spectrometer, sampling tower and tray, GC/MS-MS instrument control software, and data reporting software. A market review of GC/MS-MS manufacturers is also provided.

1. Gas Chromatogram (GC) Specifications:

- 1.1. The GC must have six independent heated zones (two inlets, two detectors and two auxiliary) in addition to the GC oven control, with set point resolution of at least 0.10 °C. The auxiliary zones must have control up to 400 °C. The auxiliary zones are used by the GC/MS transfer lines and the additional inlet/detector heaters may be used for a second column.
- 1.2. The GC must support twenty ramps and twenty-one-plateau oven temperature programming flexibility. Negative ramps must be allowed. Multiple ramps are required for method design flexibility.
- 1.3. The GC temperature range must be at least -80 °C to 450 °C with liquid nitrogen cooling. Without cryogenics, the operation temperature must be 4 °C above ambient to 450 °C. The system must have a fast oven temperature programming ramp rate up to 120 °C/min and oven cool down from 450°C to 50°C in 4 minutes at ambient temperature of 22°C. The GC must automatically shut off gases in the event of a leak and turn the oven power off automatically when the lid/door is opened. The temperature range, heating rate, and cooling rates are needed to achieve analytical method requirements and to minimize analysis time.
- 1.4. The GC must have a built-in calibrated barometer and thermometer to compensate for ambient laboratory conditions to improve reproducibility. GC oven must be able to compensate for barometric pressure and ambient temperature changes. The system must provide retention time repeatability of at least 0.0008 minute, and an area repeatability of < 1% RSD (Relative Standard Deviation). Tight reproducibility of retention time is required for quality chromatographic measurements.
- 1.5. The combined GC/MS must have a benchtop design which can easily fit onto a standard laboratory bench with instrument dimensions not to exceed: Height = 25", Width = 40", and Depth = 35". Our laboratory bench space is very limited and we must maximize productivity in minimal space.
- 1.6. The GC must be equipped with an automated inlet backflush feature which reverses column flow to eliminate highly retained compounds prior to introduction on the GC column. This feature minimizes maintenance and prevents carryover of highly retained compounds.
- 1.7. The GC must be able to interface to comprehensive real-time monitoring and diagnostic software which includes real-time service notification, chromatographic attributes, instrument diagnostics, access to maintenance information and records, and run logs. Instrument monitoring by the software will help diagnose problems more quickly and help retain maintenance information.
- 1.8. The GC electronic pressure control must operate from 0-100 psi for use with narrow bore columns. Inlet pressure sensor accuracy of $\pm 2\%$ and repeatability of ± 0.05 psi, or better. Flow sensor accuracy of $\pm 5\%$ and repeatability of $\pm 0.35\%$, or better, is required. Inlet must have electronic pneumatic control of carrier, split and septum purge gases, including electronic ON/OFF. Precise pressure controls are required to produce reproducible analytical results.
- 1.9. The GC must be equipped with an injection tower and chiller-ready sample tray with a capacity of 150 standard 2-mL vials. The injection tower and sample tray must be interchangeable with units on existing Agilent 7890 GCs within the laboratory. The capacity requirement will help maximize laboratory productivity. The interchangeability requirement will eliminate instrument downtime related to the failure of either module for priority or time-sensitive sample analysis.
- 1.10. The GC must be equipped with two injection ports. One injection port must be a multimode inlet capable of operating in a split/splitless, solvent vent mode, large volume up to 1 mL, and programmable temperature vaporizing mode. This multiple-function inlet must be integrated with the instrument software to assist the operator in optimizing the injection port settings. The second injection port must be a standard split/splitless injector. Both must be compatible with merlin Micro-Seal septum. The specialized inlets help improve analyte recoveries for temperature-sensitive compounds.

2. Mass Spectrometer Specifications:

- 2.1. The mass spectrometer must be of a triple quadrupole design with Selected Ion Monitoring (SIM), Multiple Reaction Monitoring (MRM) and Full-Scan capabilities. The SIM and Full-Scan analysis modes must be capable of synchronous operation. In addition to Electron Impact (EI) ionization, the mass spectrometer must be equipped for both positive and negative chemical ionization (PCI and NCI) capability, where the CI gas is controlled by electronic pressure control. The CI system must be sufficiently inert, using stainless steel pathways to use ammonia reagent gas. Full-scan, SIM, and MRM operation are requirements for the analytical methods used. The CI options are used for method applications where EI does not provide the necessary specificity or detection limits.
- 2.2. The vacuum system must be adequate to handle carrier flow rates for large bore capillary columns, with a minimum carrier flow rate of 8 mL per minute. Pump-down from atmosphere to operating pressures must require no more than 3 minutes in order to obtain spectra and reach stable operating temperatures in less than 2 hours. Venting the system must take no more than approximately 20-40 minutes. The fast pump-down and venting requirements will minimize lost production time.
- 2.3. The mass spectrometer must have a mass scan range of no less than 10 to 1050 amu (atomic mass units), with unit resolution over the entire mass range in 0.10 amu steps. The mass-axis stability must not exceed ± 0.10 amu over a 24-hour period of normal operation. The mass range and tight mass stability requirements help insure proper compound identification.
- 2.4. The ion source in the mass spectrometer must be made of a solid, inert material, equipped with dual filaments. A single filament source that requires breaking vacuum to install a replacement filament is not acceptable. The ion source must be independently heated and user-selectable up to 350°C. Inert coatings are also excluded since they have a tendency to scratch and create active sites. A solid, inert source with dual filaments and independent temperature control will permit optimization of analytical methods, help insure long-term performance of the instrument, allow for flexibility in research projects, and minimize down time.
- 2.5. The quadrupoles must be independently heated and user-selectable up to 200 °C and not passively heated. The temperature control of the assembly must be controlled separately from the manifold, ion source, and GC/MS interface since passive heating from these other components does not permit sufficient instrument flexibility for the wide range of applications encountered in the FDEP laboratory, including method research and development projects. The instrument needs the ability to control temperature of various components independently and precisely in order to achieve optimal performance.
- 2.6. The GC/MS interface temperature must also be user-selectable up to 350 °C and independently heated from the ion source. Wide temperature range and user-selectability is necessary for flexibility in method development and routine instrument operation.
- 2.7. The mass spectrometer must utilize off-axis detection with an electron multiplier Triple Axis Detector design. This criterion is designed to minimize the interference resulting from the presence of neutral species in the instrument.
- 2.8. The instrument checkout signal-to-noise (S/N) specifications must meet or exceed a S/N 10,000:1 RMS (m/z 272 to 222 transition) in EI MRM mode for a 1 μ L injection of 100 fg/ μ L of octafluoronaphthalene (OFN) and a detection limit of 0.50 fg or less on-column. This specification is required for trace analysis work performed by the laboratory.
- 2.9. The mass spectrometer must have a scan rate exceeding 6000 amu/sec and a scan speed of 800 transitions/second with a minimum dwell time of 0.50 msec. These specifications insure that the instrument has adequate sampling flexibility, selectivity, and sensitivity to meet the high demands of complex sampling conditions. Faster scan speeds are needed for fast-GC applications and will improve GC peak shapes. Fast transition speeds are needed to analyze complex multi-component pesticide mixtures that may have hundreds of chromatography peaks.
- 2.10. The GC/MS-MS instrument must not be a retrofit of another manufacturer's single quadrupole, GC, or liquid chromatography triple quadrupole system, but must be a well-designed, integrated instrument from a single Original Equipment Manufacturer (OEM). This specification helps insure that the instrument design is not comprised of mismatched components and will fully meet the needs of the laboratory in terms of performance, maintenance, and available service for the complete system.
- 2.11. The ion source, mass filter, and detector must be located on the same no-tool detachable plate for ease of accessibility and service. A majority of instrument consumables and parts must be compatible with Agilent 7000 instrument systems to minimize the cost associated with part and consumable inventories. The single, detachable plate requirement makes the

instrument significantly easier to service. The interchangeability requirement for consumables and parts will minimize instrument down time for priority or time-sensitive sample analysis.

3. Data System Specifications:

- 3.1. A complete software package for control of the gas chromatograph and mass spectrometer is required. The software must include the capability to control autotunes, data acquisition, data analysis, method automation, macro-programming, data processing and reporting, automatic peak deconvolution capabilities, and system management utilities. It must include the ability to control and collect data from a second GC/MS instrument on the same computer system simultaneously to minimize laboratory space requirements. Software is required to operate and report current GC/MS-MS data within the laboratory.
- 3.2. The system must be capable of performing an autotune with PFTBA, DFTPP, and BFB per EPA targets without operator intervention as well as user specified Target Compound tune, PCI and NCI tune and Manual tune with ramping of the following voltages: Repeller, Ion focus Lens, entrance lens, entrance lens offset, X-ray, amu gain and amu offset. These requirements are an integral part of the analytical methods used by the laboratory.
- 3.3. The data collection system must be equipped with automated deconvolution reporting software capable of processing data files from existing GC/MS Chemstation instruments located within the laboratory. This requirement will minimize costs and labor associated with staff training, data processing, and recovery of archived data.
- 3.4. Software must include Retention Time Locking capability that enables the operator to lock retention times for compounds. This feature improves method performance by maintaining the same retention times from day to day and from instrument to instrument.
- 3.5. The data processing software must be integrated with the data collection software program, so that moving from data collection to processing data is seamless. This feature is designed to enhance data integrity and reduce the complexity of the data processing procedure.
- 3.6. The software must be able to share libraries, methods, sequence tables, and process data on existing laboratory GC/MS-MS instruments. This requirement will minimize staff training and avoid the expense associated with purchasing multiple GC/MS-MS methods and libraries.

4. Service, Installation, and Training:

- 4.1. The Service Provider must include installation of all equipment, including checkout and verification of performance. All performance specifications must be guaranteed to be met upon installation. The Service Provider must offer on-site services including all labor, parts, and materials required to maintain the hardware in good operating condition. This provides immediate verification that the instrument is working properly before the laboratory officially accepts the purchased equipment.
- 4.2. The Service Provider must be the original equipment manufacturer (OEM) or a certified manufacturer distributor. This insures that the instrument does not void the OEM warranty and that service and parts will be available during the life of the instrument.
- 4.3. The GC/MS-MS and Chromatography Data Acquisition System must include a maintenance warranty and technical support of at least one (1) year including all parts, software upgrades, labor and travel and have available optional enhanced/extended warranty packages. Warranty service is needed to mitigate potential instrument failure and reduce instrument down-time.
- 4.4. The GC/MS-MS vendor must guarantee in writing a maximum response time of three hours for service calls via telephone whenever the system is inoperable, and a maximum response time of two work days for on-site service whenever telephone consultation cannot resolve the problem. Both aforementioned response times are defined as the length of time from first contact by FDEP regarding an inoperable system to either the receipt of a telephone response from a service engineer or the arrival of a service engineer. This requirement will help minimize down-time and disruption to the laboratory services.

- 4.5. The vendor must guarantee in writing that technical support will be provided for the lifetime of the System and that service contracts will be available to the Department for the instrument at least ten (10) years after delivery. This helps insure the laboratory can receive quality service over the life of the instrument.
- 4.6. Service must include an assigned Account Customer Engineer and an assigned backup Customer Engineer to insure uninterrupted service to our laboratory.

Companies and Instrument Systems Considered in Our Market Review:

The following companies and instrument systems were considered in this review and were evaluated by the previously listed specifications.

Company: Agilent Technologies **Instrument:** 7010/7890 Triple Quadrupole Mass Spectrometer

Comments: Selected Instrument.

Company: Bruker Daltonics **Instrument:** EVOQ Triple Quadrupole Mass Spectrometer

Comments: Does not meet specifications 1.7, 2.1, 2.5, 2.11, 3.3, and 3.6.

Company: Shimadzu **Instrument:** GCMS-TQ8030 Triple Quadrupole Mass Spectrometer

Comments: Does not meet specifications 1.7, 2.4, 2.11, 2.5, 2.9, 2.11, 3.3 and 3.6.

Company: Thermo Scientific **Instrument:** TSQ 8000 eVo and Quantum Triple Quad Mass Spectrometer **Comments:** Does not meet specifications 1.7, 2.5, 2.11, 3.3, and 3.6.

Company: Perkin Elmer **Instrument:** AxION IQT GC/MS/MS Time-of-Flight Analyzer

Comments: Does not meet specifications 1.7, 2.1, 2.5, 2.9, 2.11, 3.3, and 3.6.

After a careful market review, we have concluded that Agilent Technologies is the only vendor that can provide a GC/MS-MS instrument system compatible with our existing laboratory operations and analytical needs. Therefore, we request permission to purchase the 7010/7890B instrument from Agilent Technologies on a single source basis. A price quotation is attached.

Approved By (names & titles, as appropriate, e.g., requestor, requestor management, information systems, budget, purchasing):

Kerry Tate, Florida DEP Laboratories

Timothy Fitzpatrick, Florida DEP Laboratories

Sara Amour, Florida DEP Laboratories

Liang Lin, Florida DEP Laboratories

David D. Whiting, Florida DEP Laboratories

Thomas Frick, Department of Environmental Assessment and Restoration

Rebecca D. Hale, Procurement Section

Janice Pursley, Procurement Section

Prospective vendors are requested to provide information regarding their ability to supply the commodities or contractual services described. If it is determined in writing by the agency, after reviewing any information received from prospective vendors, that the commodities or contractual services are available only from a single source, the agency shall:

1. Provide notice of its intended decision to enter a single-source purchase contract in the manner specified in s.120.57(3) FS, if the amount of the contract does not exceed the threshold amount provided in s.287.017 for CATEGORY FOUR.
2. Request approval from the Department of Management Services for the single-source purchase, if the amount of the contract exceeds the threshold amount provided in s.287.017 for CATEGORY FOUR. If the Department of Management Services approves the agency's request, the agency shall provide notice of its intended decision to enter a single-source contract in the manner specified in s.120.57(3), FS.



Florida Department of Environmental Protection

EMERGENCY/SINGLE SOURCE/CONTRACT EXCEPTION
PROCUREMENT

Required Signatures: Adobe Signature

Division: DEAR
Bureau: Laboratories
Section: Chemistry
Contact Person: Kerry Tate, PhD
Telephone No: 850-235-8309

Check One
Emergency
Single Source
Contract Exception
(includes after-the-fact certifications)

Proposed Vendor/Contractor: Agilent Technologies
Total Cost of Purchase: 207,559.04
Proposed Contract Term:
(specify in months)

DETAILED PROCUREMENT JUSTIFICATION: (Review instructions before completing. Use the space below. Cover letter not required.)

See attached document for Justification, Specifications, and Market Review.

Individuals signing this form attest as required by s. 287.057(19) that they are independent of and have no conflict of interest in an entity evaluated and selected as part of a procurement accomplished without competition. Each undersigned individual hereby attests that he/she/they took part in the non-competitive procurement identified and that he/she/they is (are) independent of, and have no conflict of interest in, the entity evaluated and selected.

Signature: Tate_K
Digitally signed by Tate_K
Date: 2016.03.25 14:49:46 -04'00'
Date: 03/25/2016

Signature: Lin_L
Digitally signed by Lin_L
Date: 2016.03.25 16:01:21 -04'00'
Date:

Signature: Fitz_T
Digitally signed by Fitz_T
Date: 2016.03.25 16:13:36 -04'00'
Date:

Signature: Armour_S
Digitally signed by Armour_S
Date: 2016.03.25 16:00:25 -04'00'
Date:

Signature: Whiting_DD
Digitally signed by Whiting_DD
Date: 2016.03.25 16:19:17 -04'00'
Date:

Signature: Frick_T
Digitally signed by Frick_T
Date: 2016.03.25 16:36:12 -04'00'
Date:

Sole Source Justification and Specifications for the Acquisition of a Gas Chromatograph/ Triple-Quadrupole Mass Spectrometer (GC/MS-MS)

The Florida Department of Environmental Protection, Chemistry Section, seeks to acquire a gas chromatograph/mass spectrometer triple quadrupole (GC/MS-MS) system as part of our continuing efforts to transition pesticides analysis to mass spectrometry technologies. To adequately meet the needs of the chemistry laboratory it is imperative to obtain new instrumentation as part of this transition.

The GC/MS-MS specifications, computer software, and data file format for the new instrument must be compatible with our existing equipment in order to maintain laboratory consistency, exchangeability, and integration. To adequately meet the needs of the chemistry laboratory, the GC/MS-MS system must meet or exceed the following requirements and specifications. The instrument system consist of a gas chromatograph, mass spectrometer, sampling tower and tray, GC/MS-MS instrument control software, and data reporting software. A market review of GC/MS-MS manufactures is also provided.

1. Gas Chromatogram (GC) Specifications:

- 1.1. The GC must have six independent heated zones (two inlets, two detectors and two auxiliary) in addition to the GC oven control, with set point resolution of at least 0.10 °C. The auxiliary zones must have control up to 400 °C. The auxiliary zones are used by the GC/MS transfer lines and the additional inlet/detector heaters may be used for a second column.
- 1.2. The GC must support twenty ramps and twenty-one-plateau oven temperature programming flexibility. Negative ramps must be allowed. Multiple ramps are required for method design flexibility.
- 1.3. The GC temperature range must be at least -80 °C to 450 °C with liquid nitrogen cooling. Without cryogenics, the operation temperature must be 4 °C above ambient to 450 °C. The system must have a fast oven temperature programming ramp rate up to 120 °C/min and oven cool down from 450°C to 50°C in 4 minutes at ambient temperature of 22°C. The GC must automatically shut off gases in the event of a leak and turn the oven power off automatically when the lid/door is opened. The temperature range, heating rate, and cooling rates are needed to achieve analytical method requirements and to minimize analysis time.
- 1.4. The GC must have a built-in calibrated barometer and thermometer to compensate for ambient laboratory conditions to improve reproducibility. GC oven must be able to compensate for barometric pressure and ambient temperature changes. The system must provide retention time repeatability of at least 0.0008 minute, and an area repeatability of < 1% RSD (Relative Standard Deviation). Tight reproducibility of retention time is required for quality chromatographic measurements.
- 1.5. The combined GC/MS must have a benchtop design which can easily fit onto a standard laboratory bench with instrument dimensions not to exceed: Height = 25", Width = 40", and Depth = 35". Our laboratory bench space is very limited and we must maximize productivity in minimal space.
- 1.6. The GC must be equipped with an automated inlet backflush feature which reverses column flow to eliminate highly retained compounds prior to introduction on the GC column. This feature minimizes maintenance and prevents carryover of highly retained compounds.
- 1.7. The GC must be able to interface to comprehensive real-time monitoring and diagnostic software which includes real-time service notification, chromatographic attributes, instrument diagnostics, access to maintenance information and records, and run logs. Instrument monitoring by the software will help diagnose problems more quickly and help retain maintenance information.
- 1.8. The GC electronic pressure control must operate from 0-100 psi for use with narrow bore columns. Inlet pressure sensor accuracy of $\pm 2\%$ and repeatability of ± 0.05 psi, or better. Flow sensor accuracy of $\pm 5\%$ and repeatability of $\pm 0.35\%$, or better, is required. Inlet must have electronic pneumatic control of carrier, split and septum purge gases, including electronic ON/OFF. Precise pressure controls are required to produce reproducible analytical results.
- 1.9. The GC must be equipped with an injection tower and chiller-ready sample tray with a capacity of 150 standard 2-mL vials. The injection tower and sample tray must be interchangeable with units on existing Agilent 7890 GCs within the laboratory. The capacity requirement will help

- maximize laboratory productivity. The interchangeability requirement will eliminate instrument downtime related to the failure of either module for priority or time-sensitive sample analysis.
- 1.10. The GC must be equipped with two injection ports. One injection port must be a multimode inlet capable of operating in a split/splitless, solvent vent mode, large volume up to 1 mL, and programmable temperature vaporizing mode. This multiple-function inlet must be integrated with the instrument software to assist the operator in optimizing the injection port settings. The second injection port must be a standard split/splitless injector. Both must be compatible with merlin Micro-Seal septum. The specialized inlets help improve analyte recoveries for temperature-sensitive compounds.

2. Mass Spectrometer Specifications:

- 2.1. The mass spectrometer must be of a triple quadrupole design with Selected Ion Monitoring (SIM), Multiple Reaction Monitoring (MRM) and Full-Scan capabilities. The SIM and Full-Scan analysis modes must be capable of synchronous operation. In addition to Electron Impact (EI) ionization, the mass spectrometer must be equipped for both positive and negative chemical ionization (PCI and NCI) capability, where the CI gas is controlled by electronic pressure control. The CI system must be sufficiently inert, using stainless steel pathways to use ammonia reagent gas. Full-scan, SIM, and MRM operation are requirements for the analytical methods used. The CI options are used for method applications where EI does not provide the necessary specificity or detection limits.
- 2.2. The vacuum system must be adequate to handle carrier flow rates for large bore capillary columns, with a minimum carrier flow rate of 8 mL per minute. Pump-down from atmosphere to operating pressures must require no more than 3 minutes in order to obtain spectra and reach stable operating temperatures in less than 2 hours. Venting the system must take no more than approximately 20-40 minutes. The fast pump-down and venting requirements will minimize lost production time.
- 2.3. The mass spectrometer must have a mass scan range of no less than 10 to 1050 amu (atomic mass units), with unit resolution over the entire mass range in 0.10 amu steps. The mass-axis stability must not exceed ± 0.10 amu over a 24-hour period of normal operation. The mass range and tight mass stability requirements help insure proper compound identification.
- 2.4. The ion source in the mass spectrometer must be made of a solid, inert material, equipped with dual filaments. A single filament source that requires breaking vacuum to install a replacement filament is not acceptable. The ion source must be independently heated and user-selectable up to 350°C. Inert coatings are also excluded since they have a tendency to scratch and create active sites. A solid, inert source with dual filaments and independent temperature control will permit optimization of analytical methods, help insure long-term performance of the instrument, allow for flexibility in research projects, and minimize down time.
- 2.5. The quadrupoles must be independently heated and user-selectable up to 200 °C and not passively heated. The temperature control of the assembly must be controlled separately from the manifold, ion source, and GC/MS interface since passive heating from these other components does not permit sufficient instrument flexibility for the wide range of applications encountered in the FDEP laboratory, including method research and development projects. The instrument needs the ability to control temperature of various components independently and precisely in order to achieve optimal performance.
- 2.6. The GC/MS interface temperature must also be user-selectable up to 350 °C and independently heated from the ion source. Wide temperature range and user-selectability is necessary for flexibility in method development and routine instrument operation.
- 2.7. The mass spectrometer must utilize off-axis detection with an electron multiplier Triple Axis Detector design. This criterion is designed to minimize the interference resulting from the presence of neutral species in the instrument.
- 2.8. The instrument checkout signal-to-noise (S/N) specifications must meet or exceed a S/N 10,000:1 RMS (m/z 272 to 222 transition) in EI MRM mode for a 1 μ L injection of 100 fg/ μ L of octafluoronaphthalene (OFN) and a detection limit of 0.50 fg or less on-column. This specification is required for trace analysis work performed by the laboratory.
- 2.9. The mass spectrometer must have a scan rate exceeding 6000 amu/sec and a scan speed of 800 transitions/second with a minimum dwell time of 0.50 msec. These specifications insure that the instrument has adequate sampling flexibility, selectivity, and sensitivity to meet the high demands of complex sampling conditions. Faster scan speeds are needed for fast-GC applications and will improve GC peak shapes. Fast transition speeds are needed to analyze

complex multi-component pesticide mixtures that may have hundreds of chromatography peaks.

- 2.10. The GC/MS-MS instrument must not be a retrofit of another manufacturer's single quadrupole, GC, or liquid chromatography triple quadrupole system, but must be a well-designed, integrated instrument from a single Original Equipment Manufacturer (OEM). This specification helps insure that the instrument design is not comprised of mismatched components and will fully meet the needs of the laboratory in terms of performance, maintenance, and available service for the complete system.
- 2.11. The ion source, mass filter, and detector must be located on the same no-tool detachable plate for ease of accessibility and service. A majority of instrument consumables and parts must be compatible with Agilent 7000 instrument systems to minimize the cost associated with part and consumable inventories. The single, detachable plate requirement makes the instrument significantly easier to service. The interchangeability requirement for consumables and parts will minimize instrument down time for priority or time-sensitive sample analysis.

3. Data System Specifications:

- 3.1. A complete software package for control of the gas chromatograph and mass spectrometer is required. The software must include the capability to control autotunes, data acquisition, data analysis, method automation, macro-programming, data processing and reporting, automatic peak deconvolution capabilities, and system management utilities. It must include the ability to control and collect data from a second GC/MS instrument on the same computer system simultaneously to minimize laboratory space requirements. Software is required to operate and report current GC/MS-MS data within the laboratory.
- 3.2. The system must be capable of performing an autotune with PFTBA, DFTPP, and BFB per EPA targets without operator intervention as well as user specified Target Compound tune, PCI and NCI tune and Manual tune with ramping of the following voltages: Repeller, Ion focus Lens, entrance lens, entrance lens offset, X-ray, amu gain and amu offset. These requirements are an integral part of the analytical methods used by the laboratory.
- 3.3. The data collection system must be equipped with automated deconvolution reporting software capable of processing data files from existing GC/MS Chemstation instruments located within the laboratory. This requirement will minimize costs and labor associated with staff training, data processing, and recovery of archived data.
- 3.4. Software must include Retention Time Locking capability that enables the operator to lock retention times for compounds. This feature improves method performance by maintaining the same retention times from day to day and from instrument to instrument.
- 3.5. The data processing software must be integrated with the data collection software program, so that moving from data collection to processing data is seamless. This feature is designed to enhance data integrity and reduce the complexity of the data processing procedure.
- 3.6. The software must be able to share libraries, methods, sequence tables, and process data on existing laboratory GC/MS-MS instruments. This requirement will minimize staff training and avoid the expense associated with purchasing multiple GC/MS-MS methods and libraries.

4. Service, Installation, and Training:

- 4.1. The Service Provider must include installation of all equipment, including checkout and verification of performance. All performance specifications must be guaranteed to be met upon installation. The Service Provider must offer on-site services including all labor, parts, and materials required to maintain the hardware in good operating condition. This provides immediate verification that the instrument is working properly before the laboratory officially accepts the purchased equipment.
- 4.2. The Service Provider must be the original equipment manufacturer (OEM) or a certified manufacturer distributor. This insures that the instrument does not void the OEM warranty and that service and parts will be available during the life of the instrument.
- 4.3. The GC/MS-MS and Chromatography Data Acquisition System must include a maintenance warranty and technical support of at least one (1) year including all parts, software upgrades, labor and travel and have available optional enhanced/extended warranty packages. Warranty service is needed to mitigate potential instrument failure and reduce instrument down-time.
- 4.4. The GC/MS-MS vendor must guarantee in writing a maximum response time of three hours for service calls via telephone whenever the system is inoperable, and a maximum response time of two work days for on-site service whenever telephone consultation cannot resolve the

problem. Both aforementioned response times are defined as the length of time from first contact by FDEP regarding an inoperable system to either the receipt of a telephone response from a service engineer or the arrival of a service engineer. This requirement will help minimize down-time and disruption to the laboratory services.

- 4.5. The vendor must guarantee in writing that technical support will be provided for the lifetime of the System and that service contracts will be available to the Department for the instrument at least ten (10) years after delivery. This helps insure the laboratory can receive quality service over the life of the instrument.
- 4.6. Service must include an assigned Account Customer Engineer and an assigned backup Customer Engineer to insure uninterrupted service to our laboratory.

Companies and Instrument Systems Considered in Our Market Review:

The following companies and instrument systems were considered in this review and were evaluated by the previously listed specifications.

Company: Agilent Technologies **Instrument:** 7010/7890 Triple Quadrupole Mass Spectrometer
Comments: Selected Instrument.

Company: Bruker Daltonics **Instrument:** EVOQ Triple Quadrupole Mass Spectrometer
Comments: Does not meet specifications 1.7, 2.1, 2.5, 2.11, 3.3, and 3.6.

Company: Shimadzu **Instrument:** GCMS-TQ8030 Triple Quadrupole Mass Spectrometer
Comments: Does not meet specifications 1.7, 2.4, 2.11, 2.5, 2.9, 2.11, 3.3 and 3.6.

Company: Thermo Scientific **Instrument:** TSQ 8000 eVo and Quantum Triple Quad Mass Spectrometer
Comments: Does not meet specifications 1.7, 2.5, 2.11, 3.3, and 3.6.

Company: Perkin Elmer **Instrument:** AxION IQT GC/MS/MS Time-of-Flight Analyzer
Comments: Does not meet specifications 1.7, 2.1, 2.5, 2.9, 2.11, 3.3, and 3.6.

After a careful market review, we have concluded that Agilent Technologies is the only vendor that can provide a GC/MS-MS instrument system compatible with our existing laboratory operations and analytical needs. Therefore, we request permission to purchase the 7010/7890B instrument from Agilent Technologies on a single source basis. A price quotation is attached.



Mr. Kerry Tate
 State of Florida
 2600 Blainstone Rd
 Tallahassee FL 32399-6542

Quotation

Quote No.	Create Date	Delivery Time	Page
2024676	03/14/2016	7 Weeks	1 of 4
Contact		Phone no.	Valid to
Linda Schuchler		678-566-6198	05/13/2016

To place an order: Call 1-800-227-9770 Option 1
 For Instruments Fax : 302-633-8953
 Email : LSCAinstrumentsales@agilent.com
 For Consumables Fax : 302-633-8901
 Email : CAG_sales-NA@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
G7013AA 7010 Quadrupole MS/MS EI+CI system that includes MS/MS mainframe, EI and CI sources, MassHunter SW, CPU, monitor, printer, installation and familiarization, 1 year SW support, user course; 7890 GC required (not included). DEMO 7010A GC-MS-MS Serial # US1519W003. With the following configuration: Ship-to Country : USA Installation (44K) Familiarization at Installation (44L) 1 Year SW Update/Phone Assist (44W) Training (44P) 1YR PC Repair Recovery Service (0TP)	1.000 EA	266,535.00 USD	95,952.60-	170,582.40
Item Total				170,582.40
Demo/Used product discount of 36.00 % is applied. Product Availability is subject to prior sales and delivery time may vary.				
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) DEMO 7890B GC Serial # US151263020. With the following configuration:	1.000 EA	14,421.00 USD	5,191.56-	9,229.44

Quotation

Mr. Kerry Tate
 State of Florida
 2600 Blairstone Rd
 Tallahassee FL 32399-6542

Quote No.	Create Date	Delivery Time	Page
2024676	03/14/2016	7 Weeks	2 of 4
Contact		Phone no.	Valid to
Linda Schuchler		678-566-6198	05/13/2016
To place an order: Call 1-800-227-9770 Option 1 For Instruments Fax : 302-633-8953 Email : LSCAinstrumentsales@agilent.com For Consumables Fax : 302-633-8901 Email : CAG_sales-NA@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
Ship-to Country : USA				
Country of Origin : United States				
INERT Cap S/SL inlet with EPC-100psi	1 EA	4,836.00 USD	1,740.96-	3,095.04
Multimode Inlet, LN2 or Air Cooling	1 EA	10,350.00 USD	3,726.00-	6,624.00
Mass Spectrometer Detector Interface	1 EA	2,139.00 USD	770.04-	1,368.96
Three channels of auxillary EPC	1 EA	2,565.00 USD	923.40-	1,641.60
Three Way Splitter w/Make-up Gas HW	1 EA	3,420.00 USD	1,231.20-	2,188.80
7890B with USA Country of Origin	1 EA	1,178.00 USD	424.08-	753.92
Installation (44K)	1 EA	1,445.00 USD	520.20-	924.80
Familiarization at Installation (44L)	1 EA	860.00 USD	309.60-	550.40
Item Total				26,376.96
Demo/Used product discount of 36.00 % is applied. Product Availability is subject to prior sales and delivery time may vary.				
G4513A	1.000 EA	7,147.00 USD	2,572.92-	4,574.08
7693A Autoinjector Includes transfer turret, 16-sample turret, mounting post, parking post for GC, 10ul syringe, and solvent bottles. DEMO 7693 Injector Tower G4513A Serial# CN151110036.				
With the following configuration:				
Ship-to Country : USA				
Installation (44K)	1 EA	446.00 USD	160.56-	285.44
Item Total				4,859.52
Demo/Used product discount of 36.00 % is applied. Product Availability is subject to prior sales and delivery time may vary.				



Quotation

Mr. Kerry Tate
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 Tallahassee FL 32399-6542

Quote No.	Create Date	Delivery Time	Page
2024676	03/14/2016	7 Weeks	3 of 4
Contact	Phone no.	Valid to	
Linda Schuchler	678-566-6198	05/13/2016	

To place an order: Call 1-800-227-9770 Option 1
 For Instruments Fax : 302-633-8953
 Email : LSCAinstrumentsales@agilent.com
 For Consumables Fax : 302-633-8901
 Email : CAG_sales-NA@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
G4514A 7693 Tray, 150 vial includes three removable 50-vial racks and GC mounting bracket. DEMO 7693 Tray G4514A Serial # CN15160109.	1.000 EA	8,514.00 USD	3,065.04-	5,448.96
With the following configuration: Ship-to Country : USA				
Installation (44K)	1 EA	455.00 USD	163.80-	291.20
		Item Total		5,740.16
Demo/Used product discount of 36.00 % is applied. Product Availability is subject to prior sales and delivery time may vary.				
		Gross Amount	: \$	324,311.00
		Total Discount	: \$	116,751.96
		Net Amount	: \$	207,559.04
		Total	: \$	207,559.04

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Contact	Phone no.	Valid to	
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To place an order: Call 1-800-227-9770 Option 1 For Instruments Fax : 302-633-8953 Email : LSCAinstrumentsales@agilent.com For Consumables Fax : 302-633-8901 Email : CAG_sales-NA@agilent.com For Genomics Fax : 512-321-3128 Email : orders@agilent.com For additional instructions, see last page			

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. For more information or to discuss how monthly payments could suit your operational or budgetary requirements, contact your Agilent Account Manager.

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.

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

The sale of standard Products and Services referenced in this quotation is subject to the then current version of Agilent's Terms of Sale, and any LSCA Supplemental Terms or other applicable terms referenced herein. If any Products or Services are manufactured, configured or adapted to meet Customer's requirements, the sale of all Products and Services referenced in this quotation is subject to the then current version of Agilent's Terms of Sale for Custom Products and any LSCA Supplemental Terms or other applicable terms referenced herein. A copy of Agilent's Terms of Sale, Agilent's Terms of Sale for Custom Products and the LSCA Supplemental Terms is either attached or has been previously provided to you. Please contact us if you have not received a copy or require an additional copy. If you have a separate agreement in effect with Agilent covering the sale of Products and Services referenced in this quotation, the terms of that agreement will apply to those Products and Services. Agilent expressly objects to any different or additional terms in your purchase/sales order documentation, unless agreed to in writing by Agilent. Product and Service availability dates are estimated at the time of the quotation. Actual delivery dates or delivery windows will be specified at the time Agilent acknowledges and accepts your purchase order. The above conditions shall apply to the fullest extent permitted by the law. You may have other statutory or legal rights available. Commodities, technology or software exported from the United States of America ("U.S.") or from other exporting countries will be subject to the U.S. Export Administration Regulations and all exporting countries' export laws and regulations. Diversion contrary to U.S. law and the applicable export laws and regulations is prohibited.

View Vendor Detail

General Vendor Information

Vendor Status / Effective Date:	AC / 02/24/2012
Vendor Name:	Agilent Technologies, Inc.
Short Name (Does Business As):	Agilent Technologies, Inc.
Dun and Bradstreet Number (DUNS):	195823570
Website:	http://www.agilent.com
W9 Status:	Valid W-9 on File
DFS W9 Last Update Date:	May 31, 2011
Business Designation	Corporation
	Primary Place of Business: NF

Certified Business Enterprise (CBE) Category

Non-Minority / Non-Woman-Owned / Non-SDVBE

Solicitations

Registered for Sourcing: Yes, Date participated: 4/8/05 1:56 PM
 Registered for VBS: Yes, Date participated: 10/23/09 11:02 AM
 Solicitation/Sales Contact Email: iscabids@agilent.com

Special Exceptions

Fee has been waived:
 Terms of Use have not been agreed to:

Reluctant Vendor

Reluctant Vendor:

Florida Terms of Use

Accepted: Yes, 07/09/2003
 Accepted By: Karen Ginn

Contacts

[View Contact List](#)

Locations

005 Agilent Technologies, Inc Status: AC [Details](#)
 010 Agilent Technologies, Inc. Status: IN [Details](#)

[-] Commodity Codes

- 11111500 Dirt and soil
- 12161500 Indicators and Reagents
- 12161700 Buffers
- 20121000 Acidizing equipment
- 23151800 Pharmaceutical industry machinery and equipment and supplies
- 25191500 Air transportation support systems and equipment
- 25191800 Vehicle testing and measuring equipment
- 26131700 Power generation monitoring or detecting equipment
- 31242100 Optical device accessories
- 40101800 Heating equipment and parts and accessories
- 41101500 Laboratory blending and dispensing and homogenizing equipment and supplies

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Advertisement Console			
Advertisement "DEP 15/16 SSA012" Version History.			
Version	Published in Final Form	Title	Email Log
000	Scheduled For: 04/04/2016 00:00:00 (hale) Last edited: 04/01/2016 10:13:50 Not yet published.	Purchase of Gas Chromatograph/Triple-Quadruple Mass Spectrometer	0
Console Actions			
<input type="radio"/> Edit <input type="radio"/> Delete <input checked="" type="radio"/> Mark as Canceled			
Attached Documents			
Visible	Version	Uploaded	Description
<input checked="" type="checkbox"/>	000	04/01/2016 10:14:20	Complete Document Documentation (application/pdf)
<input type="button" value="Save"/> <input type="button" value="Cancel"/> Save Console Actions (cannot be undone)			
The advertisement is displayed below as it will appear at midnight beginning 04/04/2016 for vendors and the general public.			

Advertisement Detail

**Department of Environmental Protection
Single Source**

Purchase of Gas Chromatograph/Triple-Quadruple Mass Spectrometer

Advertisement Number: DEP 15/16 SSA012

Version Number: 000

Advertisement Begin Date/Time: 04/04/2016 - 08:30 A.M.

Advertisement End Date/Time: 04/12/2016 - 08:30 A.M.

Mod: 04-01-2016 10:13:50

Last Edit: Monday, April 4, 2016 at 12:00:00 A.M.

Commodity:

41115700 Chromatographic measuring instruments and accessories

The Department of Environmental Protection (Department) desires to contract with Agilent Technologies, Inc. to provide gas chromatograph/Triple-Quadruple Mass Spectrometer.

Please click the related documents link below to view the description of the requested single source.

Please direct all questions to:

Becky Hale
Phone: (850) 245-2367
FAX: (850) 245-2412

3900 Commonwealth Blvd MS93
Tallahassee FL, 32399

Email: rebecca.hale@dep.state.fl.us

Any person with a disability requiring special accommodations at the pre-solicitation conference and/or bid/proposal opening shall contact purchasing at the phone number above at least five (5) working days prior to the event. If you are hearing or speech impaired, please contact this office by using the Florida Relay Services which can be reached at 1 (800) 955-8771 (TDD).

The Department reserves the right to reject any and all bids or accept minor irregularities in the best interest of the State of Florida.

Minority Business Enterprises are encouraged to participate in the solicitation process.

Downloadable Files for Advertisement

Version	Description	Type	Required
Original	Documentation (Open/Save/View)	Complete Document	<input checked="" type="checkbox"/>

indicates a required (not withdrawn) file

[MFMP Customer Service Desk \(CSD\)](#)

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