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Waters Xevo TQ-XS System

Quotation No. 21738268 - Expiration Date : 23.06.2018

General information

228171/10647290

Provider:

Waters Pacific Pte Ltd
Joanna Ang
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#02-1/06 The Capricorn
Singapore Science Park II
Singapore 117528

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Quotation

Waters Xevo TQ-XS System

Price Details in SGD

Please reference this quotation when purchase order is issued

Itn	Part No.	Description	Unit Price	Qty	Gross Price	Disc %	Net Price
Waters Xevo TQ-XS System							
<i>With the following configuration:</i>							
1	176003945	Waters Xevo TQ-XS	719,200.00	1	719,200.00		719,200.00
2	176003946	Dry Vacuum EBARA pump	25,000.00	1	25,000.00		25,000.00
3	176003948	MS Ref StdsXEVO TQ-XS	1,600.00	1	1,600.00		1,600.00
4	176002526	MassLynx Workstation with TL	26,300.00	1	26,300.00		26,300.00
5	668000273	MONITOR, Lenovo ThinkVision Flat Panel	1,000.00	1	1,000.00		1,000.00
6	186007574	LC Multiresidue Pesticide Standards Kit	9,215.00	1	9,215.00		9,215.00
7	176001084	QuanOptimise v4.1	6,000.00	1	6,000.00		6,000.00
8	176015102	ACQUITY H-Class PLUS (CM-A) Core System	108,000.00	1	108,000.00		108,000.00
9	741000358	XEVO Tandem Quad System Install Cert.	26,100.00	1	26,100.00		26,100.00
10	750000530	On-Site MS/App Training -ROW (3 Days)	17,500.00	1	17,500.00		17,500.00
11	176003950	Analytical LC-MS Solvent Install Kit	2,518.00	1	2,518.00		2,518.00
Total					942,433.00		942,433.00
System Discount						48.00 %	-452,367.84
Total excluding GST							490,065.16
GST						7.00 %	34,304.56
Total							524,369.72

Joanna Ang
Account Manager

Julius Hiu
Sales Manager, Singapore

Quotation

Waters Xevo TQ-XS System

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Terms of Payment

30 Days - document date

Quotation

Waters Xevo TQ-XS System

Detail Product Descriptions

Item	Part No.	Description
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1	176003945	Waters Xevo TQ-XS
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Xevo® TQ-XS is an advanced benchtop tandem quadrupole mass spectrometer which expands the scope of ultimate sensitivity analysis. It features StepWave XS™ ion transfer optics delivering enhanced sensitivity, robustness, and reliability; passively removing gas load and undesirable neutral contaminants while actively transferring ions into the mass analyzer. Sensitivity benefits are more accessible as the Xevo TQ-XS also features a tool-free probe design which allows users much easier maintenance, optimization and improved reproducibility between operators. Method transfer onto the Xevo TQ-XS is made simple by the Xtended Dynamic Range (XDR™) detector which allows six orders of linear dynamic range. Wider compound coverage without changing ionization technique is delivered by the revolutionary UniSpray™ source option. In addition to these benefits, users can combine quantitative MRM with qualitative MS data acquisition through RADAR™ and confirm low levels of compounds using ScanWave™ enhanced Product Ion Confirmation scanning. The MassLynx® software supporting this instrument ensures that automated system optimization, status monitoring and results review and reporting is a smooth process using IntelliStart™ and TargetLynx XS™. When combined these advances allow new levels of reproducible and accurate quantitation of analytes at the lowest concentrations.

The following items are included as part of the standard system:

Z SPRAY™ API interface#Dual orthogonal interface for robust LC/MS Tool-free electrospray (ESI) inlet probe#for efficient ionisation of a wide range of compounds
ESCI™ ionisation capability#rapid switching source for both ESI and APCI in the same run
IntelliStart™ fluidics#Automated tuning, calibration and method development
TargetLynx XS™#Application manager (requires license as provided with PC, below)
OpenLynx™#Application manager (requires license as provided with PC, below)

The standard system does not include the following items, which must be specified separately:

Additional inlet probes and ion source options (detailed below).
Acquisition PC data system and monitor
Additional Workstation data system terminals.
Printers.
Additional MassLynx™ options (detailed below).
Vacuum backing pump options (rotary or oil-free combinations)
HPLC systems or other inlet options.

1. Z SPRAY™ API INTERFACE

This instrument is equipped with an atmospheric pressure ionisation (API) LC interface. The source and spraying elements are visible through a transparent window in the enclosure and are easily accessible via a quick-release mechanism. The source elements may be wiped clean in situ or removed for cleaning without the need for tools and without breaking vacuum. The nebulized spray is orientated orthogonally and positioned off axis for maximum source longevity and analyser protection against 'dirty' samples. The source also includes facilities for de-clustering ions formed at atmospheric pressure. Positive and negative capability is included. Positive ion, negative ion and ESCI™ capability is available as standard (allowing rapid switching between ESI and APCI, positive and negative in the same run). All source voltages and gases are under data system control. Both ESI and APCI probes are now tool-free allowing easy routine maintenance and improved user-to-user reproducibility.

2. INTELLISTART™ FLUIDICS

The instrument is equipped with an on-board infusion system capable of delivering reference solutions from 3 built-in vial locations. The on-board fluidics system is controlled by the IntelliStart software to provide automated instrument setup, mass calibration and method development. The reference solutions are delivered via switching valves for either direct or

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Waters Xevo TQ-XS System

Detail Product Descriptions

Item	Part No.	Description
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combined (into an LC flow) infusion into the API source. The valves can in addition be programmed from the software to function as an LC flow divert. If required, the fluidics can be controlled manually via the system Console.

3. TANDEM QUADRUPOLE ANALYSER

The instrument is equipped with two high performance quadrupole mass analysers with inter-element beam focusing and a mass range of 2-2000 amu. Pre-filters are fitted to the mass analysers to maximise resolution and transmission. The pre-filters also eliminate the need for cleaning of the quadrupole mass analysers. All lens and analyser voltages are digitally controlled. Analyser parameters may be programmed with respect to mass for optimal performance. Analyser parameters used for data acquisition are automatically recorded and appended to the relevant data file.

4. StepWave XS ION TRANSFER OPTICS

This instrument is equipped with patented (US patent - US9035241), off-axis StepWave™ XS ion transfer optics which provide improved sensitivity that is reproducible for multiple injections and can deliver reliable quantitation at the very lowest levels. StepWave XS ensures neutrals and gas load are passively removed for enhanced transmission, with the ions actively transferred into the mass analyser, improving sensitivity and robustness. The first stage is modified with a series of horizontal plates that allows a more controlled extraction of ions from the gas flow so that ions collide with gas molecules with less energy. A segmented quadrupole second stage focuses the ion beam to provide more efficient transmission of ions from the source to the detector.

5. COLLISION CELL

The instrument is equipped with a unique design of collision cell that can be operated in two different modes (T-Wave or ScanWave), depending upon need. In both modes of operation the collision energy and gas pressure are under programmable software control. The collision energy and collision gas pressure used during data acquisition are automatically recorded and appended to the relevant data file.

T-Wave":

The cell can be operated as a high efficiency travelling wave (T-Wave) device for collision induced dissociation. The travelling wave enables rapid cell clearance and refill for fast MRM transition switching while maintaining optimum signal to noise.

ScanWave":

The cell can be operated in a ScanWave mode. The cell can accumulate ions and then release them, according to their mass, in synchrony with the second quadrupole mass analyser. This mode of operation results in a significant increase in the signal intensity of full scan spectra (Product ion).

RADAR":

An information-rich acquisition approach that allows you to collect highly specific quantitative MRM data for target compounds while providing additional spectral data to help visualize all other components in the sample.

6. VACUUM SYSTEM

The instrument is equipped with a differentially pumped, automated vacuum system comprising: three air-cooled turbomolecular pumps and a single oil-free vacuum backing pump. Vacuum read backs and system vent/pump cycles are digitally monitored and controlled, to provide total software control and ensure fail-safe operation in the event of power failure. The backing option must be ordered separately (See Backing Pump Option for part number and description)

7. DETECTOR

The instrument is equipped with an Xtended Dynamic Range" (XDR) low noise dynolite photomultiplier detector. The detector is positioned after the second analyzer. A High Voltage conversion dynode and phosphor are positioned at 90° off-axis to the analyser for the elimination of neutral noise. The detector features novel, integral focusing optics, which provides a detection efficiency approaching 100% for single ions. The photomultiplier is enclosed in its own vacuum envelope for long life. The detector operates in both positive and negative ion mode, which can be switched rapidly under software digital control.

7. MASSLYNX SOFTWARE / MS Workstation

The MS Workstation and MassLynx 4.2 License for the application software for instrument control, data acquisition and processing must be ordered separately (See MS Workstation Variant Configurator section for part numbers and descriptions) Post acquisition processing and general data manipulation can be carried out by an additional computer workstation and

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Waters Xevo TQ-XS System

Detail Product Descriptions

Itm	Part No.	Description
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software installation (Seethe MassLynx Process-only Workstations section of the MassLynx Variant configurator 176706000).

2	176003946	Dry Vacuum EBARA pump
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The Ebara EV-SA30 incorporates totally clean multi-stage Roots technology with no oil or tip seal dust contamination risk. No annual service is required and it has 80% lower power consumption and 50% smaller footprint compared to two rotary vane pumps giving a similar combined pumping speed.

3	176003948	MS Ref StdsXEVO TQ-XS
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4	176002526	MassLynx Workstation with TL
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MassLynx" Workstation with License

MassLynx Application Software License includes key discs for TargetLynx" and OpenLynx"

Lenovo ThinkStation P510 Series with Windows 7 Professional 64

Processor: Intel® Xeon® E5-1630 v4 Processor (3,7GHz 4c); Operating system: Windows 7 Professional 64 - bit (US English); Form factor: Tower 4x6 Mechanical; Motherboard: P510 - TPM Enabled; Total memory: 64 GB; Video adapter: NVIDIA K620 (2GB DP), DP -To - DPI Video Converter; Audio adapter: Integrated Audio; RAID: Internal RAID - Not Enabled; Flash - 1x 512GB Hard drive: 2x 4TB SATA 2.5" Hard Drive - 7200 rpm, 1x 6TB 2.5" Hard Drive - 7200 rpm; First optical device bay: Lenovo 16x DVD +/- RW Dual Layer (Windows 7); Networking: Integrated Ethernet 10/100/1000, 1x Intel i350-t2 Ethernet 10/100/1000; Keyboard: Lenovo USB Preferred Pro Full Size Keyboard - US Euro; Pointing device: Lenovo Optical Wheel Mouse - USB Primax 400 DPI; Line Cord: US; Language Pack: English; System Warranty: Non-Return HDD - 4 Year Warranty US/EMEA/AP, Four year on-site warranty (parts and labour); Monitor: None; Printer: None

5	668000273	MONITOR, Lenovo ThinkVision Flat Panel
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Monitor, Lenovo Thinkvision Flat Panel

17 inch monitor

6	186007574	LC Multiresidue Pesticide Standards Kit
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LC Multiresidue Pesticide Standards Kit

7	176001084	QuanOptimise v4.1
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QuanOptimise automates optimisation and method set-up of quantification parameters for large numbers of analytes on Quadrupole MS Instruments. QuanOptimise can automatically set-up acquisition methods, quantification methods, and data processing and reporting. The entire process from sample submission to report generation may be automated without a requirement for user intervention.

QuanOptimise is compatible with QuanLynx, TargetLynx and ProfileLynx. QuanOptimise may also be operated in Open Access mode when used in conjunction with OpenLynx Open Access.

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Waters Xevo TQ-XS System

Detail Product Descriptions

Itm	Part No.	Description
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8	176015102	ACQUITY H-Class PLUS (CM-A) Core System
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The ACQUITY UPLC H-Class PLUS Column Manager System (CM-A) includes integrated solvent, sample capabilities and a multi-column heating and cooling manager with two, independent temperature controlled zones. The system is configured for quaternary solvent delivery (QSM), sample introduction via a direct inject sample manager (SM-FTN-H) and a column manager with active pre heating (CM-A) which can accommodate 4 column (up to 50 mm length) or 2 columns (greater than 50 mm length). The system's Active Pre-Heater (APH) features a new 2-piece, captive ferrule design. The system may be configured for a broad range of applications supported by UPLC optical detectors and mass detectors, with a choice of instrument control and data management software.

The following items are included as part of the ACQUITY UPLC H-Class PLUS Column Manager System (CM-A):

- # ACQUITY UPLC H-Class Quaternary Solvent Manager (QSM) PLUS
- # ACQUITY UPLC H-Class Sample Manager # FTN-H (SM-FTN-H) PLUS
- # Column Manager (CM-A) with Active Pre-Heating
- # ACQUITY UPLC Solvent Tray Module
- # ACQUITY UPLC H-Class System Start Up Kit
- # ACQUITY UPLC CM-A 2 Column Tubing Kit
- # Stainless Steel CM-A Valve Cartridges Kit
- # Leak Sensors
- # ACQUITY UPLC BEH C18 Column, 2.1 x 50 mm, 1.7 µm
- # ACQUITY UPLC Start-up Solution
- # Information Set
- # Vials
- # ACQUITY UPLC Systems Driver Pack 4 DP2018R1

9	741000358	XEVO Tandem Quad System Install Cert.
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Xevo MS System Installation

Includes:

- System Set up and Specification Testing
- Product Familiarization Training
- 1 Year Manufacturers Warranty
- Insight I-Assist Remote Connection

10	750000530	On-Site MS/App Training -ROW (3 Days)
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On-Site MS/Application Training - ROW (3 Days)

11	176003950	Analytical LC-MS Solvent Install Kit
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Analytical LC-MS Solvent Install Kit

The Analytical LC-MS Solvent Install Kit is intended to assist in effectively installing new LC-MS systems by minimizing

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Waters Xevo TQ-XS System

Detail Product Descriptions

Itm	Part No.	Description
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sources of possible contamination. This kit includes the LC-MS Grade Solvent Kit (186008715) as well as the Waters Certified Container Kit (186007088). Additional kit components also include a formic acid additive, aqueous ammonia additive and nitrile gloves.

Note: Because this is a hazardous material and GHS requirements vary from country to country, Waters Corporation is only able to ship this item to specific countries worldwide. If the destination for this order (i.e. the ship to country) is changed to a non-permitted country at any point after this quote was generated, this item will be excluded from the final order.

Quotation

Waters Xevo TQ-XS System

General Sales Terms and Conditions

1. General
Waters Pacific Pte Ltd ("Seller") hereby agrees to sell the products to buy upon the terms and conditions set forth herewith. Seller shall not be bound by any standard or printed terms furnished by the Buyer in any of its documents, unless the Buyer specifically states in writing separately from such terms that it intends such terms to apply and the Seller acknowledges such notification in writing.
2. Price
 - a. Unless otherwise agreed at the time of sale, the price stated is ex-works and exclusive of Goods & Services Tax which shall be chargeable in addition upon supply of goods.
 - b. All quotations and estimates used by Seller are, unless otherwise stated, based on current costs and are subject to amendment on or after acceptance of order by Seller to meet any rise in such costs.
 - c. Any variation to prices quoted as a result of government taxes and levies will be for the Buyer's accounts.
 - d. Written quotations automatically expire 30 calendar days from the date issued and are subject to termination by notice within that period. All orders based on written quotations are subject to Seller's acceptance at its office in 1 Science Park Road #02-01 The Capricorn, Singapore Science Park II, Singapore 117528.
3. Delivery
 - a. Stock items are processed for prompt delivery. Whilst there is no minimum order value there is a minimum charge in respect of packing, handling and delivery. Details of these charges are available on request.
 - b. Notwithstanding that the Seller and the Buyer may agree to deliver the goods at some specified place the delivery of goods to a carrier for the purpose of transmission to the Buyer is deemed to be a delivery of the goods to the Buyer and risk in the goods shall pass accordingly at the moment of delivery to the carrier.
 - c. Inspection and testing and/or installation of the goods is not provided by Seller unless otherwise agreed at the time of sale.
 - d. Seller retains ownership of the goods the property in which shall not pass to Buyer and Buyer shall keep any goods delivered to it as bailee for and on behalf of Seller until Seller has received payment of the price of all the goods (whether or not the goods are delivered in instalments and some have been paid for by Buyer pursuant to these terms) and until such time the Buyer shall store the goods separately or in some other way ensure that the goods are readily identifiable as the property of Seller and at Seller's request either shall deliver up to the goods to Seller or shall permit Seller to enter Buyer's business or other premises to repossess the goods and subsequently re-sell them.
 - e. The provisions of this clause 3(d) shall survive the determination of the contract for whatever reason.
4. Payment
 - a. Payment terms are strictly Net Cash 30 days after delivery of the goods, provided Buyer's credit has been approved or specified in the quote. If the Buyer's credit had not been established with Seller, terms are payment in advance.
 - b. All payments made by Buyer shall be made without any deduction of deferment in respect of any disputes or claims whatsoever and/or in respect of any taxes imposed by or under the authority of any government or public authority.
 - c. Where Seller does not receive payment of any of its invoices within 30 days of the date thereof interest shall thereafter accrue on the sum due and owing to Seller at the rate of 2% per month calculated on a daily basis without prejudice to Seller's right to receive payment within such 30 day period.
 - d. Time for payment shall be of the essence.
5. Confidentiality/Intellectual Property
 - a. Any order received by Seller will be treated as confidential and will not be disclosed or publicised to any third party for any reason without the prior written consent of Buyer. Neither shall Seller use Buyer's name or other identify for advertising or publicity purposes without Buyer's prior written consent.
 - b. The sale of the goods by Seller to Buyer does not confer any right or license upon buyer to use, exploit or otherwise utilise any intellectual property rights subsisting in or relating to the goods of which Seller is a proprietor or to which Seller is otherwise entitled.
6. Specifications
The characteristics and specifications of Seller's products are documented in Seller's technical literature and are approximately only Seller reserves the right to change product specifications without prior notice.
7. Cancellation
An order accepted by Seller may be cancelled only before delivery of the goods and only with the consent of Seller upon terms that Buyer will indemnify Seller against any loss incurred.
8. Return
In no case are products to be returned without first obtaining the consent of the Seller. Only unused products as currently manufactured which have been invoiced by the Seller within 30 days will be considered for return. Products accepted for credit are subject to a 20 per cent service charge plus all transportation charges. Products built to order or not of the original manufacturer of the Seller are not subject to return for credit under any circumstances. Products must be securely packed to reach the Seller without damaged. No returns shall be authorised after 90 days following shipment to buyer.
9. Warranty
The Products and/or services shall be covered by the applicable Waters' standard warranty, a copy of which is supplied with the Products and/or services or upon request. NO OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED, IS MADE WITH RESPECT TO THE PRODUCTS AND/OR SERVICES. WATERS EXPRESSLY EXCLUDES THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. Any model or sample furnished to the Buyer is merely illustrative of the general types and quality of goods and does not represent that the Products will conform to Waters applicable standard warranty. WATERS SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR ANY OTHER INDIRECT DAMAGES RESULTING FROM ECONOMIC LOSS OR PROPERTY DAMAGE SUSTAINED BY BUYER FROM THE USE OF ITS PRODUCTS OR SERVICES.
10. Termination
 - a. It prior to the delivery of the goods (or any instalment thereof) Seller has reason to believe that Buyer is unable to pay it's debts or if Buyer enters into liquidation (other than for the purpose of effecting a reconstruction or amalgamation) whether compulsory or voluntary or compounds with or conveys a meeting of its creditors or has a receiver appointed over all or any part of its assets or takes or suffers any similar action in consequence of a debt or ceases for any reason to carry on business, Seller may terminate the contract by notice in writing to Buyer.
 - b. Termination of the contract personate to Clause 10(a) shall not effect the accrued rights of the parties arising in any way out of such contract as of the date of termination.
11. Variation
Neither Seller or Buyer shall be bound by any variation, waiver of or an addition to, those terms and conditions except as agreed by both parties in writing.
12. Time
Seller will endeavour to dispatch the products on the promised delivery date but does not guarantee to do so.
13. Force Majeure
Waters shall have no liability for failure to perform or delay in performance, in the delivery of any and all equipment manufactured or sold by Waters including instruments, supplies, components, systems, chemistry, accessories, replacement spare parts, or any and all services provided by Waters, caused by circumstances beyond its reasonable control including, but not limited to, acts of God, acts of nature, floods, fire, explosions, war or military mobilisation, United States governmental action or inaction, request of governmental authority, delays of any kind in transportation or inability to obtain material or equipment, acts of other governments, strikes or labour disturbances.
14. Law
The contract shall be deemed to have been made in Singapore and the Parties to the contract hereby submit to the jurisdiction of Singapore courts. Singapore law shall be the proper law of the contract.