

Arriving early 2023

Source and integrated heating solutions for Thermo Scientific and SCIEX mass spectrometry users.



IonOpticks TS™
New instrument interface for Thermo Scientific users.



IonOpticks SX™
New instrument interface for SCIEX users.

Proteomics Solved.

Who knew LC-MS could be so easy?



Tech Specs

Column format	Analytical column
Column type	Reversed-phase
For use with	UHPLC
Length	60 cm
Inner Diameter	75 µm
Stationary phase	C18*
Pore size	120 Å
Pressure	>1700 bar
Temp. limits	60°C
Particle size	1.7 µm
pH stability	1-8*

(Part No. AUR3-60075C18 / AUR3-60075C18-CS1)

ionopticks

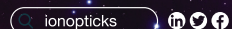
68-70 Hanover Street
Fitzroy, Victoria 3065, Australia

To view our full product range visit
www.ionopticks.com/products

For compatibility and technical support visit
helpcentre@ionopticks.com

For general enquiries visit
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PRODUCT OF AUSTRALIA



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Aurora
GENERATION **3**

AURORA
FRONTIER™

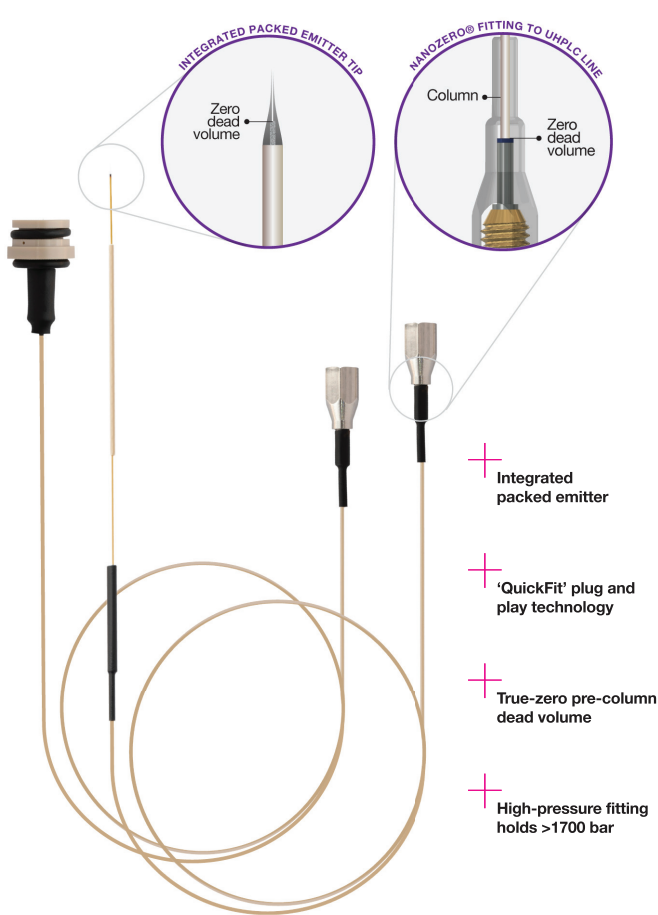
60 cm nanoflow UHPLC packed emitter column.

AURORA FRONTIER™

60 cm nanoflow UHPLC packed emitter column.

The deepest sample analysis possible.

The Aurora Frontier™ is a column that's not only sensitive, robust and easy to use, but significantly improves sample separation and definition. Combining a suite of innovations incorporated throughout our Generation 3 Aurora Series™ range, the Frontier boasts incredible performance using long sample gradients, and is the first column ever to enable near-full proteome coverage due to its unmatched peak capacity.



Single shot.
10,000+ proteins.
1 species.

Achieve more than **10,000** protein identifications from a single sample injection.

Figure 1
Unique Protein IDs

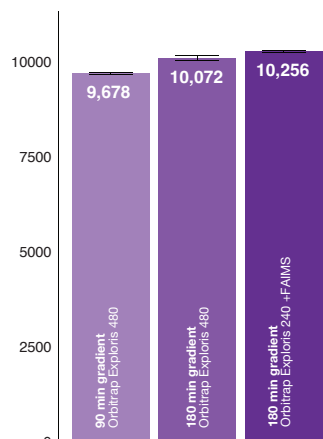


Figure 2
Unique Peptide IDs

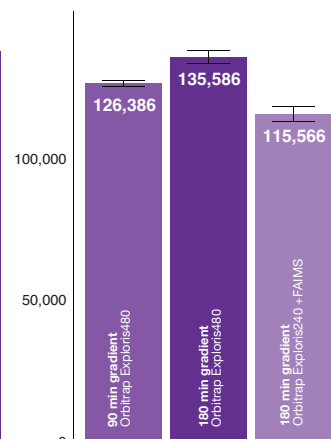
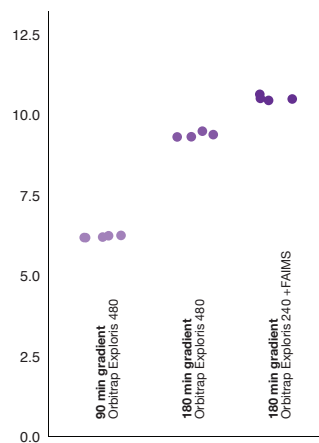


Figure 3
Peak Width FWHM (Sec)



Identified unique proteins and peptides from HeLa Tryptic Digest injections on an Aurora Frontier™ 60 cm x 75 µm column using different gradient lengths and instruments.

Samples were either run on a Vanquish Neo UHPLC coupled to a Thermo Orbitrap Exploris 480 running a 90 min (1.5 µg injection; n = 5) or 180 min (3 µg injection; n = 4) sample gradient (300 nL/min), or a U3000 UHPLC coupled to a Thermo Orbitrap Exploris 240 +FAIMS Duo running a 180 min (3 µg injection; n = 4) sample gradient (200 nL/min).

Samples were acquired using a DIA workflow and searched using DIA-NN (1% FDR) using an 8 fraction library created using small *m/z* window DIA acquisitions between *m/z* 380 and 985. Unique proteins counted at the Protein level.

Aurora Generation 3

UHPLC packed emitter columns

Delivering unrivalled coverage, throughput, sensitivity and reproducibility, Generation 3 Aurora Series™ columns embody all of the strengths of previous generations, augmented by three years of intense research, development and industry collaboration.

Designed by researchers, for researchers.

We've listened. We've collaborated.

Throughout the development of the Generation 3 Aurora Series™ we've included a range of improvements to minimise experiment disruption and increase performance.

Above all else.

The Aurora Frontier™ is the highest performing column available.

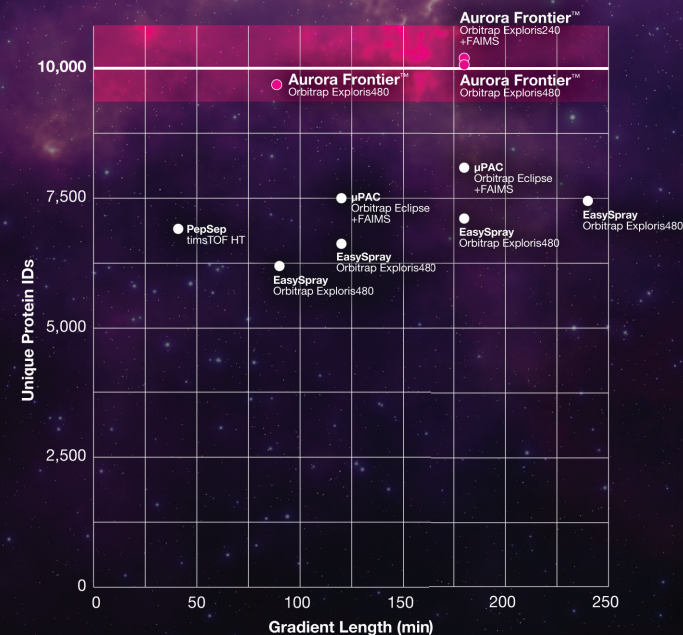


Figure 4: Comparison of the highest protein identification numbers reported from a range of different commercially available columns for single species samples.

For source data, scan the QR code, or visit www.aurorafreier.com

