

Pace Analytical Services

Laboratory Code: 11148

SDG Number: L2512271

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Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2512271
Report Date: 03/12/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2512271-01	PZ-6_P	WATER	Not Specified	03/05/25 09:55	03/05/25
L2512271-02	FIELD BLANK_P	WATER	Not Specified	03/05/25 14:00	03/05/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by 1633

L2512271-01R, -02R, WG2038443-1R, WG2038443-2R, and WG2038443-3R: The sample was re-analyzed due to QC failures in the original analysis. The results of the re-analysis are reported.

L2512271-01R: The Extracted Internal Standard recoveries were above the acceptance criteria for 1h,1h,2h,2h-perfluoro[1,2-13c2]octanesulfonic acid (m2-6:2fts) (213%). Since the sample was non-detect to the RL for all associated target analytes, re-analysis was not required.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Report Date: 03/12/25

Title: Technical Director/Representative

DATA PACKAGE GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

ND or U - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

TYPICAL INSTRUMENT PARAMETERS

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD	
	Column Type: Haysep S Column
	Column Length: 2 Meters packed (100/200 mesh)
Autosampler: LEAP Headspace	Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material
Trap 2: Tenax: manufacturer-Entech: 20 cm packing material

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.32 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Sample Delivery Group Summary

Pace Job Number : L2512271

Account Name : Roux Env. Eng. & Geology, DPC
Project Number : 2232.0006Y005
Project Name : CORAM MATERIALS

Received : 05-MAR-2025
Reviewer : Jessica Ramos

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	4.4	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Mar 12 2025, 12:23 pm

Login Number: L2512271
Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005
Received: 05MAR25 Due Date: 19MAR25

Sample #	Client ID	Mat	PR	Collected
L2512271-01	PZ-6_P	S0	1	05MAR25 09:55

NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8260: Report list built, includes non routine compounds NYTCL-8270-LV: Report list built I: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam Please log "hold" products, do not log as "contingent" Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound metals-need PPB products for NJ based jobs

A2-NY-1633

Sample #	Client ID	Mat	PR	Collected
L2512271-02	FIELD BLANK_P	S0	1	05MAR25 14:00

NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8260: Report list built, includes non routine compounds NYTCL-8270-LV: Report list built I: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam Please log "hold" products, do not log as "contingent" Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound metals-need PPB products for NJ based jobs ASP-B Package Due Date: 03/19/25

A2-NY-1633,ASP-B

Logged By: Alycia Mogayzel

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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Date Rec'd in Lab: 3/6/25

ALPHA Job #: L2512271

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: aiervolino@rouxinc.com

Project Information

Project Name: CORAM MATERIALS
Project Location:
Project #: 2232.0006Y005
(Use Project name as Project #) ☐
Project Manager: Ashley Iervolino
ALPHAQuote #: 30343

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
NJ ☐ NY
Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

PFAS: 40 Compound List

Please specify Metals or TAL.

ANALYSIS

A2-NY-1633

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	A2-NY-1633	Sample Specific Comments	Total Bottles
12271-01	PZ-6_P	3/5/25	955	AQ	AI	x		2
-02	FIELD BLANK-P	3/5/25	1400	AQ	AI	x		1

Container Type: P
Preservative: N

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	3/5/25 1515	Pace	3/5/25 15:20
Pace	3/5/25 18:30		3/5/25 1920
	3/5/25		3/5/25 2240
	3/6/25 0120		3/6/25 01:20
	3-6-25 0935		3/6/25 0935
	3/6/25 1030		3/6/25 10:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

Organics

PFAS via Draft Method 1633

Semivolatiles QC Summary

Laboratory Control Sample (Low Level) Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC		**Lab Number**	: L2512271	
Project Name	: CORAM MATERIALS		**Project Number**	: 2232.0006Y005	
Matrix (Level)	: WATER ()				
LCS Sample ID	: WG2038443-2	**Analysis Date** : 03/11/25 12:35	**File ID**	: SCI09_250311_44.wiff2	
LCSD Sample ID	:	**Analysis Date** :	**File ID**	:	

	Laboratory Control Sample (LOW)			Laboratory Control Duplicate (LOW)					
Parameter	**True (ng/l)**	**Found (ng/l)**	**%R**	**True (ng/l)**	**Found (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Perfluorobutanoic Acid (PFBA)	12.8	13.9	109				-	70-140	30
Perfluoropentanoic Acid (PFPeA)	6.4	6.26	98				-	65-135	30
Perfluorobutanesulfonic Acid (PFBS)	2.84	2.91	102				-	60-145	30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	12	11.9	99				-	70-145	30
Perfluorohexanoic Acid (PFHxA)	3.2	3.04	95				-	70-145	30
Perfluoropentanesulfonic Acid (PFPeS)	3.01	3.24	108				-	65-140	30
Perfluoroheptanoic Acid (PFHpA)	3.2	3.01	94				-	70-150	30
Perfluorohexanesulfonic Acid (PFHxS)	2.93	2.79	95				-	65-145	30
Perfluorooctanoic Acid (PFOA)	3.2	3.06	96				-	70-150	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	12.2	12.8	105				-	65-155	30
Perfluoroheptanesulfonic Acid (PFHpS)	3.05	3.23	106				-	70-150	30
Perfluorononanoic Acid (PFNA)	3.2	2.78	87				-	70-150	30
Perfluorooctanesulfonic Acid	2.97	3.19	107				-	55-150	30

Laboratory Control Sample (Low Level) Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC			**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS			**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER ()				
LCS Sample ID	: WG2038443-2	**Analysis Date**	: 03/11/25 12:35	**File ID**	: SCI09_250311_44.wiff2
LCSD Sample ID	:	**Analysis Date**	:	**File ID**	:

	Laboratory Control Sample (LOW)			Laboratory Control Duplicate (LOW)					
Parameter	**True (ng/l)**	**Found (ng/l)**	**%R**	**True (ng/l)**	**Found (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
(PFOS)									
Perfluorodecanoic Acid (PFDA)	3.2	3.35	105				-	70-140	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	12.3	13.2	107				-	60-150	30
Perfluorononanesulfonic Acid (PFNS)	3.08	3.03	98				-	65-145	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	3.2	3.40	106				-	50-140	30
Perfluoroundecanoic Acid (PFUnA)	3.2	3.46	108				-	70-145	30
Perfluorodecanesulfonic Acid (PFDS)	3.08	3.16	102				-	60-145	30
Perfluorooctanesulfonamide (PFOSA)	3.2	3.31	104				-	70-145	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	3.2	2.82	88				-	70-145	30
Perfluorododecanoic Acid (PFDoA)	3.2	3.45	108				-	70-140	30
Perfluorotridecanoic Acid (PFTrDA)	3.2	3.39	106				-	65-140	30

Laboratory Control Sample (Low Level) Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC		**Lab Number**	: L2512271	
Project Name	: CORAM MATERIALS		**Project Number**	: 2232.0006Y005	
Matrix (Level)	: WATER ()				
LCS Sample ID	: WG2038443-2	**Analysis Date** : 03/11/25 12:35	**File ID**	: SCI09_250311_44.wiff2	
LCSD Sample ID	:	**Analysis Date** :	**File ID**	:	

	Laboratory Control Sample (LOW)			Laboratory Control Duplicate (LOW)					
Parameter	**True (ng/l)**	**Found (ng/l)**	**%R**	**True (ng/l)**	**Found (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Perfluorotetradecanoic Acid (PFTeDA)	3.2	3.37	105				-	60-140	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	12.8	13.0	101				-	70-140	30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	12.1	11.8	98				-	65-145	30
Perfluorododecanesulfonic Acid (PFDoS)	3.11	2.97	95				-	50-145	30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	11.9	13.1	110				-	70-155	30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	12.1	12.9	107				-	55-160	30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	3.2	3.39	106				-	60-150	30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	3.2	3.42	107				-	65-145	30
N-Methyl Perfluorooctanesulfonami	32	30.6	96				-	70-145	30

Laboratory Control Sample (Low Level) Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC			**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS			**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER ()				
LCS Sample ID	: WG2038443-2	**Analysis Date**	: 03/11/25 12:35	**File ID**	: SCI09_250311_44.wiff2
LCSD Sample ID	:	**Analysis Date**	:	**File ID**	:

	Laboratory Control Sample (LOW)			Laboratory Control Duplicate (LOW)					
Parameter	**True (ng/l)**	**Found (ng/l)**	**%R**	**True (ng/l)**	**Found (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
do Ethanol (NMeFOSE)									
N-Ethyl Perfluorooctanesulfonamid o Ethanol (NEtFOSE)	32	30.2	94				-	70-135	30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	6.4	6.51	102				-	55-140	30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	6.4	6.65	104				-	60-150	30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	5.71	5.22	91				-	70-140	30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	6.4	6.02	94				-	50-150	30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	16	15.6	98				-	65-130	30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	80	73.6	92				-	70-135	30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	80	61.5	77				-	50-145	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER ()		
LCS Sample ID	: WG2038443-3 **Analysis Date** : 03/11/25 12:44	**File ID**	: SCI09_250311_45.wiff2
LCSD Sample ID	: **Analysis Date** :	**File ID**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ng/l)**	**Found (ng/l)**	**%R**	**True (ng/l)**	**Found (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Perfluorobutanoic Acid (PFBA)	80	71.6	89				-	70-140	30
Perfluoropentanoic Acid (PFPeA)	40	36.0	90				-	65-135	30
Perfluorobutanesulfonic Acid (PFBS)	17.8	15.8	89				-	60-145	30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	75	70.1	94				-	70-145	30
Perfluorohexanoic Acid (PFHxA)	20	17.8	89				-	70-145	30
Perfluoropentanesulfonic Acid (PFPeS)	18.8	17.8	95				-	65-140	30
Perfluoroheptanoic Acid (PFHpA)	20	18.5	92				-	70-150	30
Perfluorohexanesulfonic Acid (PFHxS)	18.3	16.1	88				-	65-145	30
Perfluorooctanoic Acid (PFOA)	20	16.4	82				-	70-150	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	76.1	71.8	94				-	65-155	30
Perfluoroheptanesulfonic Acid (PFHpS)	19	17.5	92				-	70-150	30
Perfluorononanoic Acid (PFNA)	20	17.3	86				-	70-150	30
Perfluorooctanesulfonic Acid	18.6	15.8	85				-	55-150	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC			**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS			**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER ()				
LCS Sample ID	: WG2038443-3	**Analysis Date**	: 03/11/25 12:44	**File ID**	: SCI09_250311_45.wiff2
LCSD Sample ID	:	**Analysis Date**	:	**File ID**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ng/l)**	**Found (ng/l)**	**%R**	**True (ng/l)**	**Found (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
(PFOS)									
Perfluorodecanoic Acid (PFDA)	20	18.7	93				-	70-140	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	76.8	70.3	92				-	60-150	30
Perfluorononanesulfonic Acid (PFNS)	19.3	16.3	85				-	65-145	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	20	19.3	96				-	50-140	30
Perfluoroundecanoic Acid (PFUnA)	20	19.7	98				-	70-145	30
Perfluorodecanesulfonic Acid (PFDS)	19.3	15.4	80				-	60-145	30
Perfluorooctanesulfonamide (PFOSA)	20	18.7	94				-	70-145	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	20	16.0	80				-	70-145	30
Perfluorododecanoic Acid (PFDoA)	20	17.7	88				-	70-140	30
Perfluorotridecanoic Acid (PFTrDA)	20	18.8	94				-	65-140	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER ()		
LCS Sample ID	: WG2038443-3 **Analysis Date** : 03/11/25 12:44	**File ID**	: SCI09_250311_45.wiff2
LCSD Sample ID	: **Analysis Date** :	**File ID**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ng/l)**	**Found (ng/l)**	**%R**	**True (ng/l)**	**Found (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Perfluorotetradecanoic Acid (PFTeDA)	20	16.5	83				-	60-140	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	80	80.0	100				-	70-140	30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	75.6	73.3	97				-	65-145	30
Perfluorododecanesulfonic Acid (PFDoS)	19.4	15.6	80				-	50-145	30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	74.6	69.9	94				-	70-155	30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	75.4	64.5	85				-	55-160	30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	20	17.1	85				-	60-150	30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	20	16.8	84				-	65-145	30
N-Methyl Perfluorooctanesulfonami	200	162	81				-	70-145	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC			**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS			**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER ()				
LCS Sample ID	: WG2038443-3	**Analysis Date**	: 03/11/25 12:44	**File ID**	: SCI09_250311_45.wiff2
LCSD Sample ID	:	**Analysis Date**	:	**File ID**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ng/l)**	**Found (ng/l)**	**%R**	**True (ng/l)**	**Found (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
do Ethanol (NMeFOSE)									
N-Ethyl Perfluorooctanesulfonamid o Ethanol (NEtFOSE)	200	165	82				-	70-135	30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	40	36.4	91				-	55-140	30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	40	38.6	96				-	60-150	30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	35.7	28.7	80				-	70-140	30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	40	34.9	87				-	50-150	30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	100	94.6	95				-	65-130	30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	500	456	91				-	70-135	30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	500	371	74				-	50-145	30

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2512271
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	S7 ()
PZ-6_P (L2512271-01R)	89	77	76	193	98	105	79
FIELD BLANK_P (L2512271-02R)	96	92	91	89	94	95	93
WG2038443-1BLANK	106	105	115	102	110	111	112
WG2038443-2LCS	99	93	100	96	100	110	102
WG2038443-3LCS	109	98	102	94	103	102	103

QC LIMITS

(5-130) S1 = PERFLUORO[13C4]BUTANOIC ACID (MPFBA)
(40-130) S2 = PERFLUORO[13C5]PENTANOIC ACID (M5PFPEA)
(40-135) S3 = PERFLUORO[2,3,4-13C3]BUTANESULFONIC ACID (M3PFBS)
(40-200) S4 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]HEXANESULFONIC ACID (M2-4:2FTS)
(40-130) S5 = PERFLUORO[1,2,3,4,6-13C5]HEXANOIC ACID (M5PFHXA)
(40-130) S6 = PERFLUORO[1,2,3,4-13C4]HEPTANOIC ACID (M4PFHPA)
(40-130) S7 = PERFLUORO[1,2,3-13C3]HEXANESULFONIC ACID (M3PFHXS)

* Values outside of QC limits

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2512271
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S8 ()	S9 ()	S10 ()	S11 ()	S12 ()	S13 ()	S14 ()
PZ-6_P (L2512271-01R)	68	213*	74	72	69	147	85
FIELD BLANK_P (L2512271-02R)	97	92	88	85	95	91	74
WG2038443-1BLANK	109	117	101	92	101	100	73
WG2038443-2LCS	104	97	109	92	95	94	74
WG2038443-3LCS	107	101	100	103	93	100	78

QC LIMITS

(40-130) S8 = PERFLUORO[13C8]OCTANOIC ACID (M8PFOA)
(40-200) S9 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]OCTANESULFONIC ACID (M2-6:2FTS)
(40-130) S10 = PERFLUORO[13C9]NONANOIC ACID (M9PFNA)
(40-130) S11 = PERFLUORO[13C8]OCTANESULFONIC ACID (M8PFOS)
(40-130) S12 = PERFLUORO[1,2,3,4,5,6-13C6]DECANOIC ACID (M6PFDA)
(40-300) S13 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]DECANESULFONIC ACID (M2-8:2FTS)
(40-170) S14 = N-DEUTERIOMETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D3-NMEFOSAA)

* Values outside of QC limits

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2512271
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S15 ()	S16 ()	S17 ()	S18 ()	S19 ()	S20 ()	S21 ()
PZ-6_P (L2512271-01R)	62	77	94	60	58	91	65
FIELD BLANK_P (L2512271-02R)	83	90	83	81	82	94	77
WG2038443-1BLANK	83	92	88	84	90	108	66
WG2038443-2LCS	85	105	89	84	88	92	74
WG2038443-3LCS	81	88	94	81	92	95	76

QC LIMITS

(30-130) S15 = PERFLUORO[1,2,3,4,5,6,7-13C7]UNDECANOIC ACID (M7-PFUDA)
(40-130) S16 = PERFLUORO[13C8]OCTANESULFONAMIDE (M8FOSA)
(25-135) S17 = N-DEUTERIOETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D5-NETFOSAA)
(10-130) S18 = PERFLUORO[1,2-13C2]DODECANOIC ACID (MPFDOA)
(10-130) S19 = PERFLUORO[1,2-13C2]TETRADECANOIC ACID (M2PFTEDA)
(40-130) S20 = 2,3,3,3-TETRAFLUORO-2-[1,1,2,2,3,3,3-HEPTAFLUOROPROPOXY]-13C3-PROPANOIC ACID (M3HFPO-DA)
(10-130) S21 = N-METHYL-D3-PERFLUORO-1-OCTANESULFONAMIDE (D3-NMEFOSA)

*** Values outside of QC limits**

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2512271
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S22 ()	S23 ()	S24 ()	S25 ()	S26 ()	S27 ()	S28 ()	TOT OUT
PZ-6_P (L2512271-01R)	63	68	65	--	--	--	--	1
FIELD BLANK_P (L2512271-02R)	80	89	90	--	--	--	--	0
WG2038443-1BLANK	68	87	89	--	--	--	--	0
WG2038443-2LCS	71	94	94	--	--	--	--	0
WG2038443-3LCS	77	85	85	--	--	--	--	0

QC LIMITS

(10-130) S22 = N-ETHYL-D5-PERFLUORO-1-OCTANESULFONAMIDE (D5-NETFOSA)
(10-130) S23 = 2-(N-METHYL-D3-PERFLUORO-1-OCTANESULFONAMIDO)ETHAN-D4-OL (D7-NMEFOSE)
(10-130) S24 = 2-(N-ETHYL-D5-PERFLUORO-1-OCTANESULFONAMIDO)ETHAN-D4-OL (D9-NETFOSE)

* Values outside of QC limits

FORM II A2-NY-1633 (Continued)

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2038443-1	**Lab File ID**	: SCI09_250311_43.wiff2
Instrument ID	: LCMS09	**Extraction Date**	: 03/10/25
Matrix	: WATER	**Analysis Date**	: 03/11/25 12:26
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2038443-2LCS	WG2038443-2R	03/11/25 12:35
WG2038443-3LCS	WG2038443-3R	03/11/25 12:44
PZ-6_P	L2512271-01R	03/11/25 13:19
FIELD BLANK_P	L2512271-02R	03/11/25 13:28

Date Created: 11/21/24
Created By: Jason Hebert
File: PM18019-1
Page: 1

PFAAs via EPA 1633 (WATER)

Holding Time: 28 days
Container/Sample Preservation: 2 - Plastic 500ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluorobutanoic Acid (PFBA)	375-22-4	6.4	2.14	ng/l	70-140	30	70-140	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	3.2	1.06	ng/l	65-135	30	65-135	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	1.6	0.536	ng/l	60-145	30	60-145	30	30			
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	6.4	2.14	ng/l	70-145	30	70-145	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	1.6	0.536	ng/l	70-145	30	70-145	30	30			
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	1.6	0.536	ng/l	65-140	30	65-140	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	1.6	0.536	ng/l	70-150	30	70-150	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1.6	0.536	ng/l	65-145	30	65-145	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	1.6	0.536	ng/l	70-150	30	70-150	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	6.4	4.82	ng/l	65-155	30	65-155	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	1.6	0.536	ng/l	70-150	30	70-150	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	1.6	0.536	ng/l	70-150	30	70-150	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	1.6	0.536	ng/l	55-150	30	55-150	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	1.6	0.536	ng/l	70-140	30	70-140	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	6.4	2.14	ng/l	60-150	30	60-150	30	30			
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	1.6	0.536	ng/l	65-145	30	65-145	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA	2355-31-9	1.6	0.536	ng/l	50-140	30	50-140	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	1.6	0.536	ng/l	70-145	30	70-145	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	1.6	0.536	ng/l	60-145	30	60-145	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	1.6	0.536	ng/l	70-145	30	70-145	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	1.6	0.536	ng/l	70-145	30	70-145	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	1.6	0.536	ng/l	70-140	30	70-140	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	1.6	0.536	ng/l	65-140	30	65-140	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	1.6	0.536	ng/l	60-140	30	60-140	30	30			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Pro	13252-13-6	6.4	2.14	ng/l	70-140	30	70-140	30	30			
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	6.4	2.14	ng/l	65-145	30	65-145	30	30			
Perfluorododecane Sulfonic Acid (PFDoDS)	79780-39-5	1.6	0.536	ng/l	50-145	30	50-145	30	30			
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3	756426-58-1	6.4	2.14	ng/l	70-155	30	70-155	30	30			
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-	763051-92-9	6.4	2.14	ng/l	55-160	30	55-160	30	30			
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	1.6	0.536	ng/l	60-150	30	60-150	30	30			
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	1.6	0.536	ng/l	65-145	30	65-145	30	30			
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	16	5.36	ng/l	70-145	30	70-145	30	30			
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	16	5.36	ng/l	70-135	30	70-135	30	30			
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	3.2	1.06	ng/l	55-140	30	55-140	30	30			
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	3.2	1.06	ng/l	60-150	30	60-150	30	30			
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	3.2	1.06	ng/l	70-140	30	70-140	30	30			
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	3.2	1.06	ng/l	50-150	30	50-150	30	30			
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	8	2.66	ng/l	65-130	30	65-130	30	30			
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	40	13.4	ng/l	70-135	30	70-135	30	30			
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	40	13.4	ng/l	50-145	30	50-145	30	30			
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*5-130*		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*40-130*		

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Date Created: 11/21/24
Created By: Jason Hebert
File: PM18019-1
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PFAAs via EPA 1633 (WATER)

Holding Time: 28 days
Container/Sample Preservation: 2 - Plastic 500ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*40-135*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4	*NONE*									*40-200*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*40-130*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*40-130*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*40-130*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*40-130*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:	*NONE*									*40-200*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*40-130*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*40-130*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*40-130*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*40-300*		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (	*NONE*									*40-170*		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*30-130*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*40-130*		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5	*NONE*									*25-135*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*10-130*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*10-130*		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13	*NONE*									*40-130*		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	*NONE*									*10-130*		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	*NONE*									*10-130*		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol	*1265205-95-5*									*10-130*		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (	*NONE*									*10-130*		

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Date Created: 11/21/24
Created By: Jason Hebert
File: PM18021-1
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PFAAs via EPA 1633 (SOIL)

Holding Time: 90 days
Container/Sample Preservation: 1 - Plastic 8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluorobutanoic Acid (PFBA)	375-22-4	0.8	0.266	ng/g	70-140	30	70-140	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.4	0.134	ng/g	60-150	30	60-150	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	0.2	0.067	ng/g	65-145	30	65-145	30	30			
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	0.8	0.266	ng/g	60-150	30	60-150	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	0.2	0.067	ng/g	65-140	30	65-140	30	30			
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.2	0.067	ng/g	55-160	30	55-160	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	0.2	0.067	ng/g	65-145	30	65-145	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	0.2	0.067	ng/g	60-150	30	60-150	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	0.2	0.067	ng/g	70-150	30	70-150	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	0.8	0.266	ng/g	55-200	30	55-200	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.2	0.067	ng/g	65-155	30	65-155	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	0.2	0.067	ng/g	70-155	30	70-155	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.2	0.067	ng/g	65-160	30	65-160	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	0.2	0.067	ng/g	70-155	30	70-155	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	0.8	0.266	ng/g	70-150	30	70-150	30	30			
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.2	0.067	ng/g	55-140	30	55-140	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA	2355-31-9	0.2	0.086	ng/g	65-155	30	65-155	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.2	0.067	ng/g	70-155	30	70-155	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	0.2	0.067	ng/g	40-155	30	40-155	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	0.2	0.067	ng/g	70-140	30	70-140	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	0.2	0.067	ng/g	65-165	30	65-165	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	0.2	0.067	ng/g	70-150	30	70-150	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.2	0.067	ng/g	65-150	30	65-150	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	0.2	0.067	ng/g	65-150	30	65-150	30	30			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Pro	13252-13-6	0.8	0.266	ng/g	70-145	30	70-145	30	30			
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	0.8	0.266	ng/g	70-160	30	70-160	30	30			
Perfluorododecane Sulfonic Acid (PFDoDS)	79780-39-5	0.2	0.067	ng/g	25-160	30	25-160	30	30			
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3	756426-58-1	0.8	0.266	ng/g	70-150	30	70-150	30	30			
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-	763051-92-9	0.8	0.266	ng/g	45-160	30	45-160	30	30			
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	0.2	0.067	ng/g	70-155	30	70-155	30	30			
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	0.2	0.067	ng/g	70-140	30	70-140	30	30			
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	2	0.666	ng/g	70-140	30	70-140	30	30			
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	2	0.666	ng/g	70-135	30	70-135	30	30			
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	0.4	0.134	ng/g	30-140	30	30-140	30	30			
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	0.4	0.134	ng/g	60-150	30	60-150	30	30			
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	0.4	0.134	ng/g	70-140	30	70-140	30	30			
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	0.4	0.134	ng/g	60-155	30	60-155	30	30			
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	1	0.334	ng/g	45-130	30	45-130	30	30			
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	5	1.664	ng/g	60-130	30	60-130	30	30			
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	5	1.664	ng/g	60-150	30	60-150	30	30			
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*8-130*		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*35-130*		

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Date Created: 11/21/24
Created By: Jason Hebert
File: PM18021-1
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PFAAs via EPA 1633 (SOIL)

Holding Time: 90 days
Container/Sample Preservation: 1 - Plastic 8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*40-135*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4	*NONE*									*40-165*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*40-130*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*40-130*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*40-130*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*40-130*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6	*NONE*									*40-215*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*40-130*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*40-130*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*40-130*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*40-275*		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (	*NONE*									*40-135*		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*40-130*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*40-130*		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5	*NONE*									*40-150*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*40-130*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*20-130*		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13	*NONE*									*40-130*		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	*NONE*									*10-130*		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	*NONE*									*10-130*		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol	*1265205-95-5*									*20-130*		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d	*NONE*									*15-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. *(Soil/Solids only)*
Please Note that the information provided in this table is subject to change at anytime at the discretion of ***the laboratory.***

Semivolatile Sample Data

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512271-01R	**Date Collected**	: 03/05/25 09:55
Client ID	: PZ-6_P	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/11/25 13:19
Sample Matrix	: WATER	**Date Extracted**	: 03/10/25
Analytical Method	: 144,1633	**Dilution Factor**	: 1
Lab File ID	: SCI09_250311_49	**Analyst**	: AC
Sample Amount	: 509.1 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	3.76	6.28	0.518	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	2.18	3.14	0.354	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	1.15	1.57	0.393	J
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	6.28	0.896	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	1.78	1.57	0.244	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	0.251	1.57	0.204	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	1.31	1.57	0.236	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	3.64	1.57	0.134	
335-67-1	Perfluorooctanoic Acid (PFOA)	3.82	1.57	0.259	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	6.28	4.73	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.495	1.57	0.196	J
375-95-1	Perfluorononanoic Acid (PFNA)	7.82	1.57	0.259	
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	30.6	1.57	0.259	
335-76-2	Perfluorodecanoic Acid (PFDA)	0.605	1.57	0.204	J
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	6.28	1.20	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.57	0.196	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.57	0.471	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.57	0.173	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512271-01R	**Date Collected**	: 03/05/25 09:55
Client ID	: PZ-6_P	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/11/25 13:19
Sample Matrix	: WATER	**Date Extracted**	: 03/10/25
Analytical Method	: 144,1633	**Dilution Factor**	: 1
Lab File ID	: SCI09_250311_49	**Analyst**	: AC
Sample Amount	: 509.1 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.57	0.134	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.57	0.094	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.57	0.471	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.57	0.212	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.57	0.181	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.57	0.157	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	6.28	1.57	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	6.28	0.369	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.57	0.236	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	6.28	0.432	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	6.28	0.440	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.57	0.220	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.57	0.346	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	15.7	1.28	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512271-01R	**Date Collected**	: 03/05/25 09:55
Client ID	: PZ-6_P	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/11/25 13:19
Sample Matrix	: WATER	**Date Extracted**	: 03/10/25
Analytical Method	: 144,1633	**Dilution Factor**	: 1
Lab File ID	: SCI09_250311_49	**Analyst**	: AC
Sample Amount	: 509.1 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	15.7	1.08	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	3.14	0.244	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	3.14	0.354	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	3.14	0.322	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	3.14	0.534	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	7.86	0.526	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	39.3	4.18	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	39.3	3.13	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512271-02R	**Date Collected**	: 03/05/25 14:00
Client ID	: FIELD BLANK_P	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/11/25 13:28
Sample Matrix	: WATER	**Date Extracted**	: 03/10/25
Analytical Method	: 144,1633	**Dilution Factor**	: 1
Lab File ID	: SCI09_250311_50	**Analyst**	: AC
Sample Amount	: 506.73 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	6.32	0.521	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	3.16	0.355	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.58	0.395	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	6.32	0.900	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.58	0.245	U
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.58	0.205	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.58	0.237	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.58	0.134	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.58	0.260	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	6.32	4.75	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.58	0.197	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.58	0.260	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.58	0.260	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.58	0.205	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	6.32	1.21	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.58	0.197	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.58	0.474	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.58	0.174	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512271-02R	**Date Collected**	: 03/05/25 14:00
Client ID	: FIELD BLANK_P	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/11/25 13:28
Sample Matrix	: WATER	**Date Extracted**	: 03/10/25
Analytical Method	: 144,1633	**Dilution Factor**	: 1
Lab File ID	: SCI09_250311_50	**Analyst**	: AC
Sample Amount	: 506.73 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.58	0.134	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.58	0.095	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.58	0.474	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.58	0.213	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.58	0.182	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.58	0.158	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	6.32	1.58	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	6.32	0.371	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.58	0.237	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	6.32	0.434	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	6.32	0.442	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.58	0.221	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.58	0.347	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	15.8	1.29	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512271-02R	**Date Collected**	: 03/05/25 14:00
Client ID	: FIELD BLANK_P	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/11/25 13:28
Sample Matrix	: WATER	**Date Extracted**	: 03/10/25
Analytical Method	: 144,1633	**Dilution Factor**	: 1
Lab File ID	: SCI09_250311_50	**Analyst**	: AC
Sample Amount	: 506.73 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	15.8	1.09	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	3.16	0.245	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	3.16	0.355	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	3.16	0.324	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	3.16	0.537	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	7.89	0.529	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	39.5	4.20	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	39.5	3.14	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038443-1R	**Date Collected**	: NA
Client ID	: WG2038443-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/11/25 12:26
Sample Matrix	: WATER	**Date Extracted**	: 03/10/25
Analytical Method	: 144,1633	**Dilution Factor**	: 1
Lab File ID	: SCI09_250311_43	**Analyst**	: AC
Sample Amount	: 500 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	6.40	0.528	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	3.20	0.360	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.60	0.400	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	6.40	0.912	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.60	0.248	U
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.60	0.208	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.60	0.240	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.60	0.136	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.60	0.264	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	6.40	4.82	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.60	0.200	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.60	0.264	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.60	0.264	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.60	0.208	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	6.40	1.22	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.60	0.200	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.60	0.480	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.60	0.176	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038443-1R	**Date Collected**	: NA
Client ID	: WG2038443-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/11/25 12:26
Sample Matrix	: WATER	**Date Extracted**	: 03/10/25
Analytical Method	: 144,1633	**Dilution Factor**	: 1
Lab File ID	: SCI09_250311_43	**Analyst**	: AC
Sample Amount	: 500 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.60	0.136	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.60	0.096	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.60	0.480	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.60	0.216	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.60	0.184	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.60	0.160	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	6.40	1.60	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	6.40	0.376	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.60	0.240	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	6.40	0.440	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	6.40	0.448	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.60	0.224	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.60	0.352	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	16.0	1.30	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038443-1R	**Date Collected**	: NA
Client ID	: WG2038443-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/11/25 12:26
Sample Matrix	: WATER	**Date Extracted**	: 03/10/25
Analytical Method	: 144,1633	**Dilution Factor**	: 1
Lab File ID	: SCI09_250311_43	**Analyst**	: AC
Sample Amount	: 500 g	**Instrument ID**	: LCMS09
Extraction Method	: EPA 1633	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	16.0	1.10	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	3.20	0.248	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	3.20	0.360	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	3.20	0.328	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	3.20	0.544	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3: 3FTCA)	ND	8.00	0.536	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5: 3FTCA)	ND	40.0	4.26	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7: 3FTCA)	ND	40.0	3.18	U

Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

ID: L2512271-01R
Name: SCI09_250311_49.wiff2
Date & Time: 2025-03-11T13:19:59
Description: WG2038851,WG2038443,ICAL22044
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.60	213.0 / 169.0	42988		0.478	N/A	N/A	N/A	N/A
2	PFPeA	2706-90-3	1.18	263.0 / 219.0	30208		0.278	N/A	N/A	N/A	N/A
3	PFPeA_2	2706-90-3	N/A	263.0 / 68.9	N/A		N/A	N/A	N/A	N/A	N/A
4	PFHxA	307-24-4	1.92	313.0 / 269.0	39142		0.226	0.080	0.081	Pass	N/A
5	PFHxA_2	307-24-4	1.92	313.0 / 119.0	3144		0.213	0.080	0.081	Pass	N/A
6	PFHpA	375-85-9	2.50	363.1 / 319.0	33839		0.167	0.309	0.373	Pass	N/A
7	PFHpA_2	375-85-9	2.50	363.1 / 169.0	10451		0.130	0.309	0.373	Pass	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	3.00	413.1 / 369.1	90614		0.486	0.341	0.424	Pass	N/A
9	PFOA_2	335-67-1	3.00	413.1 / 169.0	30866		0.391	0.341	0.424	Pass	N/A
10	PFNA	375-95-1	3.45	462.8 / 418.9	124325	M5	0.996	0.392	0.493	Pass	N/A
11	PFNA_2	375-95-1	3.45	462.8 / 219.0	48694	M5	0.801	0.392	0.493	Pass	N/A
12	PFDA	335-76-2	3.87	513.1 / 469.1	12300		0.077	0.214	0.188	Pass	N/A
13	PFDA_2	335-76-2	3.87	513.1 / 219.0	2637		0.089	0.214	0.188	Pass	N/A
14	PFUnA	2058-94-8	N/A	563.1 / 519.1	N/A		N/A	N/A	0.146	N/A	N/A
15	PFUnA_2	2058-94-8	N/A	563.1 / 269.0	N/A		N/A	N/A	0.146	N/A	N/A
16	PFDoA	307-55-1	N/A	613.1 / 569.1	N/A		N/A	N/A	0.142	N/A	N/A
17	PFDoA_2	307-55-1	N/A	613.1 / 319.0	N/A		N/A	N/A	0.142	N/A	N/A
18	PFTrDA	72629-94-8	N/A	663.1 / 619.1	N/A		N/A	N/A	0.152	N/A	N/A
19	PFTrDA_2	72629-94-8	N/A	663.1 / 169.0	N/A		N/A	N/A	0.152	N/A	N/A
20	PFTeDA	376-06-7	N/A	713.1 / 669.1	N/A		N/A	N/A	0.154	N/A	N/A
21	PFTeDA_2	376-06-7	N/A	713.1 / 169.0	N/A		N/A	N/A	0.154	N/A	N/A
22	PFBS	375-73-5	1.92	299.1 / 80.1	17537		0.146	0.441	0.374	Pass	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.92	299.1 / 99.1	7737		0.185	0.441	0.374	Pass	N/A
24	PFPeS	2706-91-4	2.57	349.1 / 80.1	3838		0.032	0.414	0.314	Pass	N/A
25	PFPeS_2	2706-91-4	2.56	349.1 / 99.1	1590	M2	0.043	0.414	0.314	Pass	N/A
26	PFHxS	355-46-4	3.10	399.1 / 80.1	50273	M5	0.463	0.248	0.306	Pass	N/A
27	PFHxS_2	355-46-4	3.10	399.1 / 99.1	12467	M5	0.397	0.248	0.306	Pass	N/A
28	PFHpS	375-92-8	3.58	449.1 / 80.1	5612		0.063	0.179	0.316	Pass	N/A
29	PFHpS_2	375-92-8	3.58	449.1 / 99.1	1005	M2	0.037	0.179	0.316	Pass	N/A
30	PFOS	1763-23-1	4.02	499.1 / 80.1	422184	M5	3.896	0.205	0.244	Pass	N/A
31	PFOS_2	1763-23-1	4.02	499.1 / 99.1	86491	M5	3.177	0.205	0.244	Pass	N/A
32	PFNS	68259-12-1	N/A	549.1 / 80.1	N/A		N/A	N/A	0.294	N/A	N/A
33	PFNS_2	68259-12-1	N/A	549.1 / 99.1	N/A		N/A	N/A	0.294	N/A	N/A
34	PFDS	335-77-3	N/A	599.1 / 80.1	N/A		N/A	N/A	0.290	N/A	N/A
35	PFDS_2	335-77-3	N/A	599.1 / 99.1	N/A		N/A	N/A	0.290	N/A	N/A
36	PFDoS	79780-39-5	N/A	699.2 / 80.1	N/A		N/A	N/A	0.256	N/A	N/A
37	PFDoS_2	79780-39-5	N/A	699.2 / 99.1	N/A		N/A	N/A	0.256	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	N/A	327.1 / 307.1	N/A		N/A	N/A	0.650	N/A	N/A
39	4:2FTS_2	757124-72-4	N/A	327.1 / 81.1	N/A		N/A	N/A	0.650	N/A	N/A
40	6:2FTS	27619-97-2	2.81	427.2 / 407.2	6192		0.096	0.668	0.620	Pass	N/A
41	6:2FTS_2	27619-97-2	2.81	427.2 / 81.1	4134		0.100	0.668	0.620	Pass	N/A
42	8:2FTS	39108-34-4	N/A	527.2 / 507.2	N/A		N/A	N/A	0.676	N/A	N/A
43	8:2FTS_2	39108-34-4	N/A	527.2 / 81.1	N/A		N/A	N/A	0.676	N/A	N/A
44	PFOSA	754-91-6	N/A	498.1 / 78.1	N/A		N/A	N/A	0.026	N/A	N/A
45	PFOSA_2	754-91-6	N/A	498.1 / 478.0	N/A		N/A	N/A	0.026	N/A	N/A
46	NMeFOSA	31506-32-8	N/A	512.2 / 219.0	N/A		N/A	N/A	1.377	N/A	N/A
47	NMeFOSA_2	31506-32-8	N/A	512.2 / 169.0	N/A		N/A	N/A	1.377	N/A	N/A
48	NEtFOSA	4151-50-2	N/A	526.2 / 219.0	N/A		N/A	N/A	1.292	N/A	N/A
49	NEtFOSA_2	4151-50-2	N/A	526.2 / 169.0	N/A		N/A	N/A	1.292	N/A	N/A
50	NMeFOSAA	2355-31-9	N/A	570.2 / 419.1	N/A		N/A	N/A	0.697	N/A	N/A
51	NMeFOSAA_2	2355-31-9	N/A	570.2 / 483.0	N/A		N/A	N/A	0.697	N/A	N/A
52	NEtFOSAA	2991-50-6	N/A	584.2 / 419.1	N/A		N/A	N/A	0.557	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	N/A	584.2 / 526.2	N/A		N/A	N/A	0.557	N/A	N/A
54	NMeFOSE	24448-09-7	N/A	616.1 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
55	NEtFOSE	1691-99-2	6.15	630.0 / 58.9	7329	M5	0.130	N/A	N/A	N/A	N/A
56	HFPO-DA	13252-13-6	N/A	285.0 / 169.0	N/A		N/A	N/A	0.501	N/A	N/A
57	HFPO-DA_2	13252-13-6	N/A	285.0 / 184.9	N/A		N/A	N/A	0.501	N/A	N/A
58	ADONA	919005-14-4	N/A	376.9 / 251.0	N/A		N/A	N/A	0.691	N/A	N/A
59	ADONA_2	919005-14-4	N/A	376.9 / 84.8	N/A		N/A	N/A	0.691	N/A	N/A
60	9Cl-PF3ONS	756426-58-1	N/A	530.8 / 351.1	N/A		N/A	N/A	0.332	N/A	N/A
61	9Cl-PF3ONS_2	756426-58-1	N/A	532.8 / 353.0	N/A		N/A	N/A	0.332	N/A	N/A
62	11Cl-PF3OUdS	763051-92-9	5.09	630.9 / 451.0	5240		0.034	0.415	0.322	Pass	N/A
63	11Cl-PF3OUdS_2	763051-92-9	5.09	632.9 / 452.9	2176		0.043	0.415	0.322	Pass	N/A
64	3:3FTCA	356-02-5	N/A	241.1 / 177.1	N/A		N/A	N/A	1.010	N/A	N/A
65	3:3FTCA_2	356-02-5	N/A	241.1 / 117.0	N/A		N/A	N/A	1.010	N/A	N/A
66	5:3FTCA	914637-49-3	N/A	341.1 / 237.1	N/A		N/A	N/A	1.017	N/A	N/A
67	5:3FTCA_2	914637-49-3	N/A	341.1 / 217.0	N/A		N/A	N/A	1.017	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.08	441.1 / 316.9	7777		0.230	1.352	1.343	Pass	N/A
69	7:3FTCA_2	812-70-4	4.08	441.1 / 337.1	10514		0.235	1.352	1.343	Pass	N/A
70	PFEESA	113507-82-7	N/A	315.1 / 135.0	N/A		N/A	N/A	0.081	N/A	N/A
71	PFEESA_2	113507-82-7	N/A	315.1 / 82.9	N/A		N/A	N/A	0.081	N/A	N/A
72	PFMPA	377-73-1	N/A	229.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
73	PFMBA	863090-89-5	N/A	279.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
74	NFDHA	151772-58-6	N/A	295.0 / 201.0	N/A		N/A	N/A	0.681	N/A	N/A
75	NFDHA_2	151772-58-6	N/A	295.0 / 84.9	N/A		N/A	N/A	0.681	N/A	N/A
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	N/A	333.2 / 312.1	N/A		N/A	N/A	N/A	N/A	N/A
79	13C2-PFOA	Surr	N/A	415.0 / 370.0	N/A		N/A	N/A	N/A	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.59	217.0 / 172.0	1006109		8.923	NA	NA	NA	89.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.17	268.0 / 223.0	565464		3.841	NA	NA	NA	76.8
	13C5-PFHxA	EIS	1.92	318.0 / 273.0	338384		2.445	NA	NA	NA	97.8
	13C4-PFHpA	EIS	2.50	367.0 / 322.0	349775		2.620	NA	NA	NA	104.8
	13C8-PFOA	EIS	2.99	420.8 / 376.0	545046		1.702	NA	NA	NA	68.1
	13C9-PFNA	EIS	3.44	472.0 / 427.0	231406		0.920	NA	NA	NA	73.6
	13C6-PFDA	EIS	3.87	519.0 / 474.0	226412		0.868	NA	NA	NA	69.4
	13C7-PFUnA	EIS	4.27	570.0 / 525.0	222122		0.771	NA	NA	NA	61.7

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.66	615.1 / 570.0	218348		0.754	NA	NA	NA	60.3
	13C2-PFTeDA	EIS	5.40	715.1 / 670.1	136754		0.728	NA	NA	NA	58.3
	13C3-PFBS	EIS	1.91	302.1 / 80.1	262881		1.763	NA	NA	NA	75.7
	13C3-PFHxS	EIS	3.10	402.1 / 80.1	248247		1.873	NA	NA	NA	79.0
	13C8-PFOS	EIS	4.01	507.1 / 80.1	227304		1.714	NA	NA	NA	71.4
	13C2-4:2FTS	EIS	1.71	329.1 / 81.1	198649		9.032	NA	NA	NA	192.6
	13C2-6:2FTS	EIS	2.81	429.2 / 81.1	191424		10.109	NA	NA	NA	212.4
	13C2-8:2FTS	EIS	3.68	529.2 / 81.1	125434		7.063	NA	NA	NA	147.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C8-PFOSA	EIS	5.25	506.1 / 78.1	407144		1.934	NA	NA	NA	77.4
	d3-NMeFOSA	EIS	5.98	515.2 / 219.0	61761		1.625	NA	NA	NA	65.0
	d5-NEtFOSA	EIS	6.27	531.2 / 219.0	54388		1.573	NA	NA	NA	62.9
	d3-NMeFOSAA	EIS	3.99	573.2 / 419.1	110290		4.259	NA	NA	NA	85.2
	d5-NEtFOSAA	EIS	4.20	589.3 / 419.1	99051		4.690	NA	NA	NA	93.8
	d7-NMeFOSE	EIS	5.83	623.2 / 58.9	465552		17.027	NA	NA	NA	68.1
	d9-NEtFOSE	EIS	6.13	639.2 / 58.9	597242		16.283	NA	NA	NA	65.1

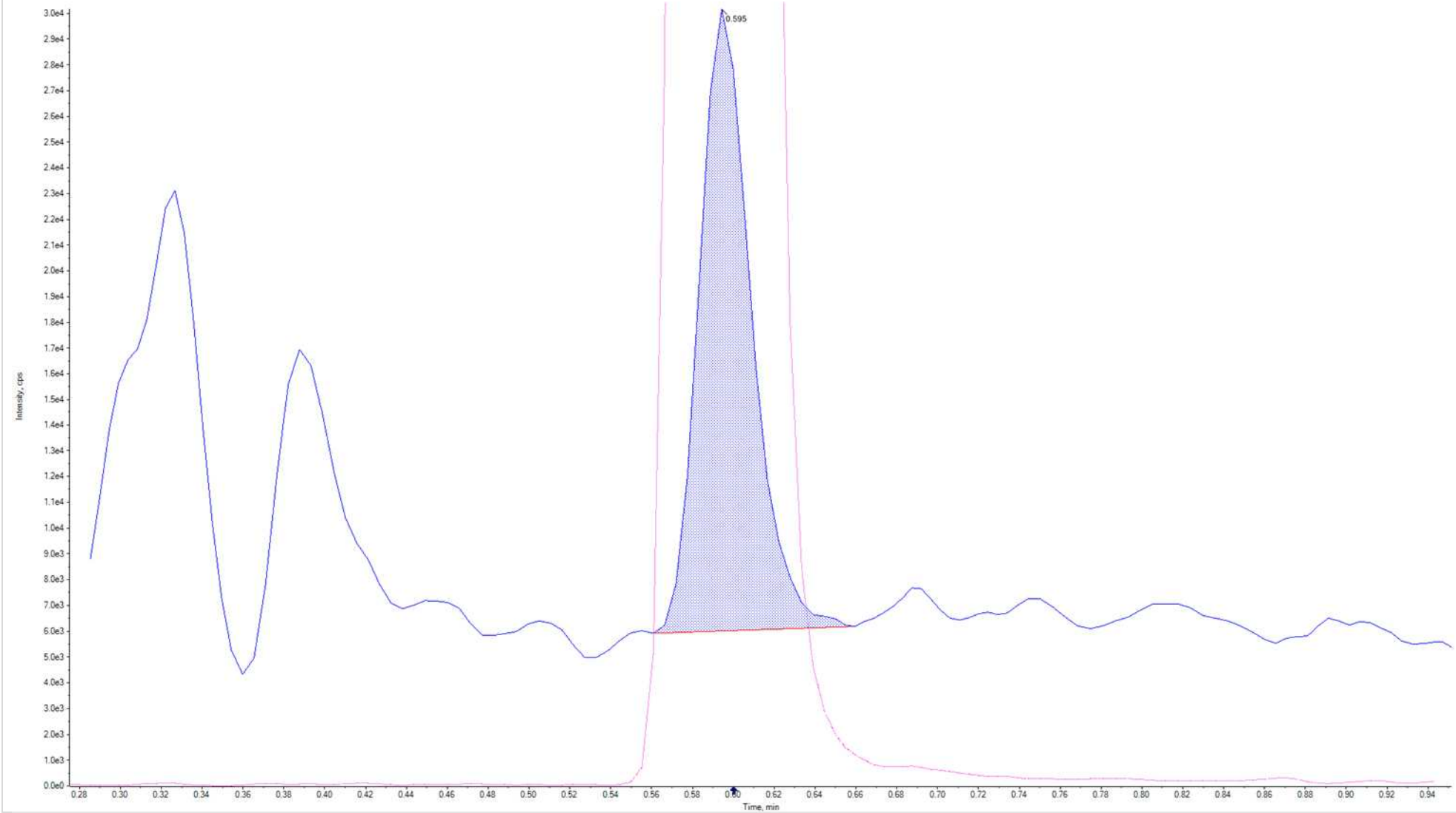
	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.13	287.0 / 169.0	1326910		9.064	NA	NA	NA	90.6
	13C3-PFBA	NIS	0.59	216.0 / 172.0	498896		3.442	NA	NA	NA	68.8
	13C2-PFHxA	NIS	1.92	315.0 / 270.0	407554		2.515	NA	NA	NA	100.6
	13C4-PFOA	NIS	2.99	417.0 / 372.0	486720		3.386	NA	NA	NA	135.4
	13C5-PFNA	NIS	3.44	468.0 / 423.0	314879		1.528	NA	NA	NA	122.2
	13C2-PFDA	NIS	3.86	515.1 / 470.1	304493		1.432	NA	NA	NA	114.6
	18O2-PFHxS	NIS	3.10	403.1 / 84.1	278754		2.368	NA	NA	NA	99.9
	13C4-PFOS	NIS	4.01	503.1 / 80.1	266750		2.219	NA	NA	NA	92.5

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Alpha Analytical LLC
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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

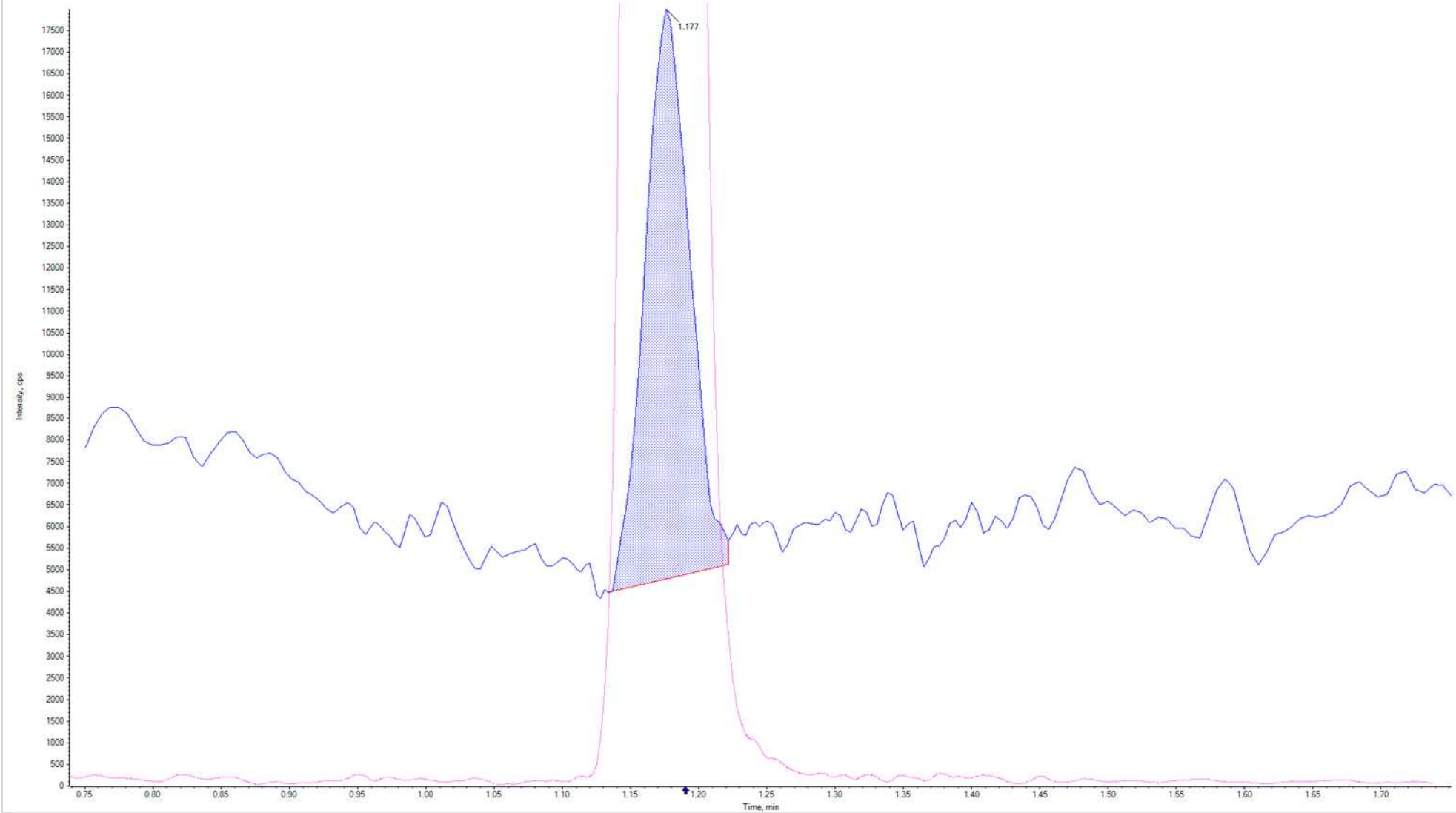
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PFBA
Sample: L2512271-01R S/N:52.4 Points Across peak:19

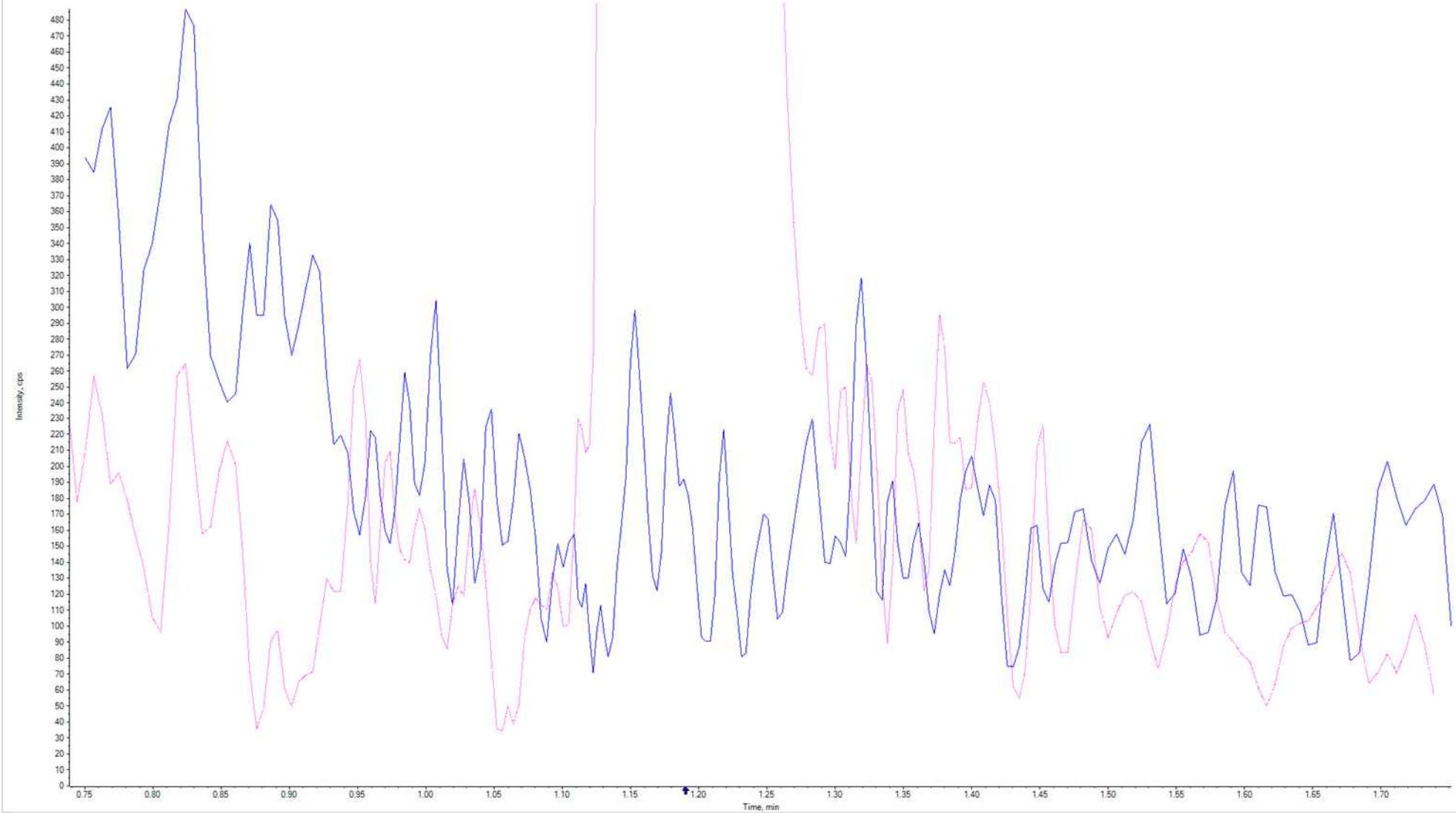


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PFPeA
Sample: L2512271-01R S/N:80.5 Points Across peak:28

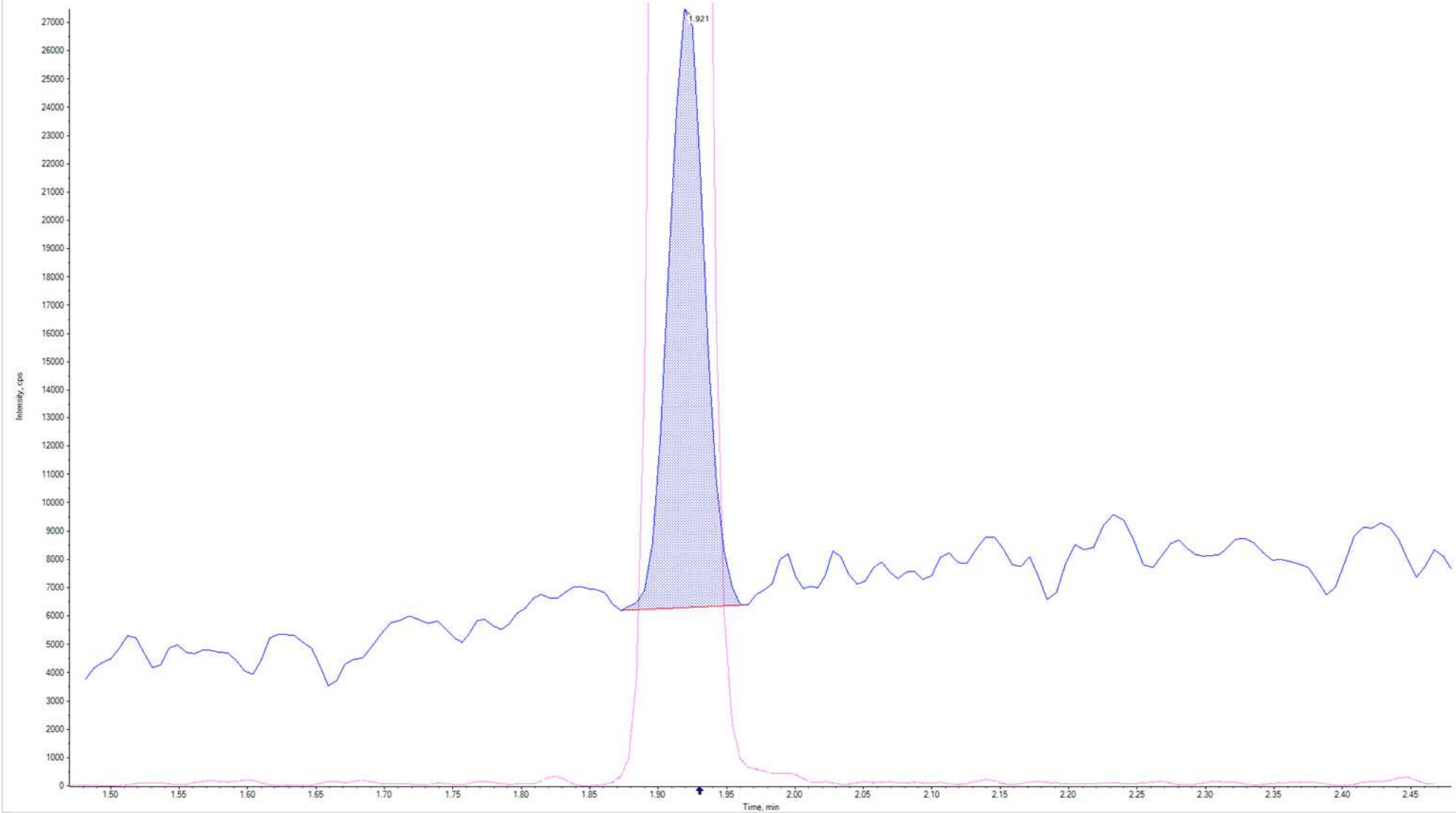


PFPeA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



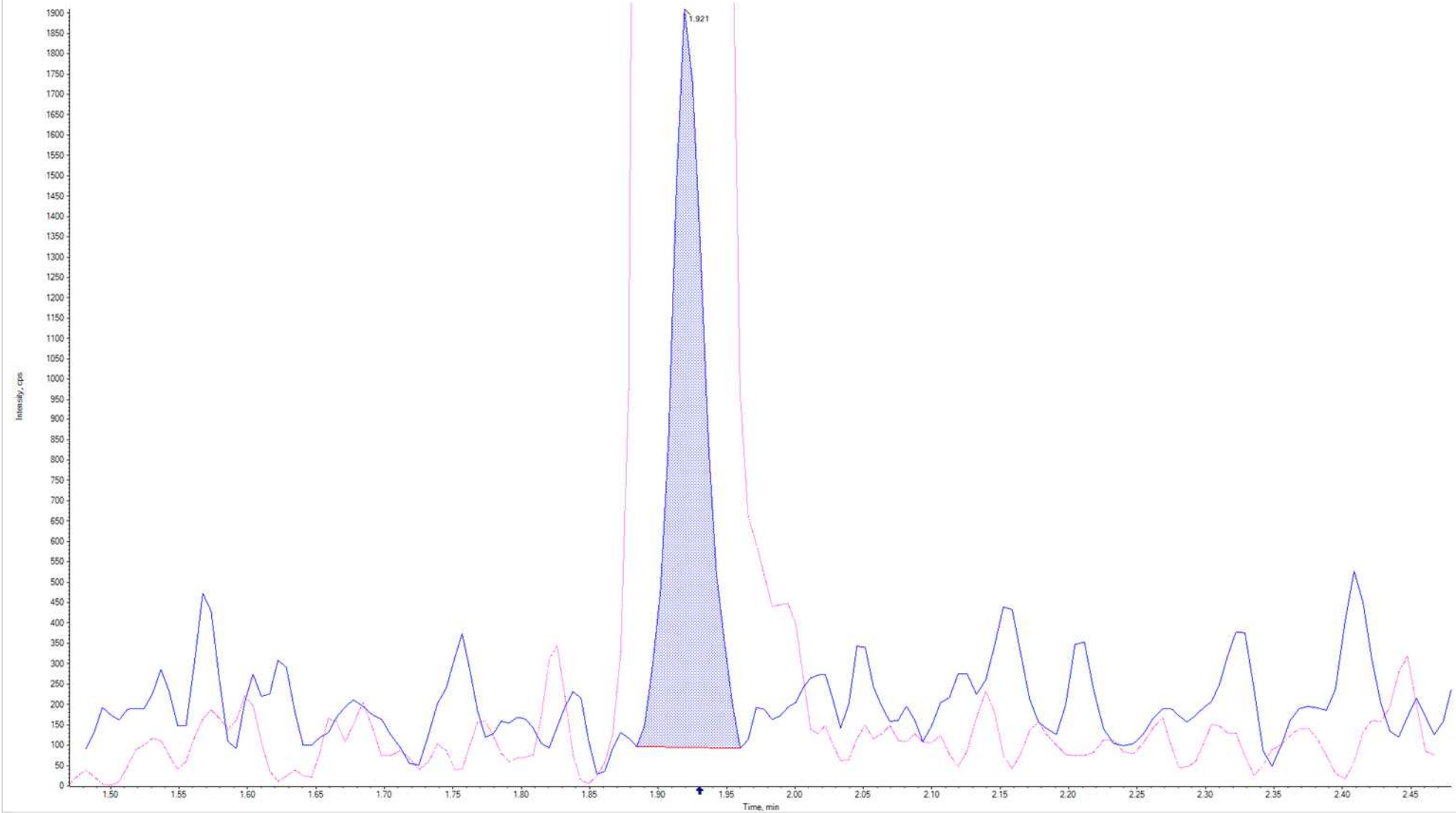
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PFHxA
Sample: L2512271-01R S/N:84.1 Points Across peak:17

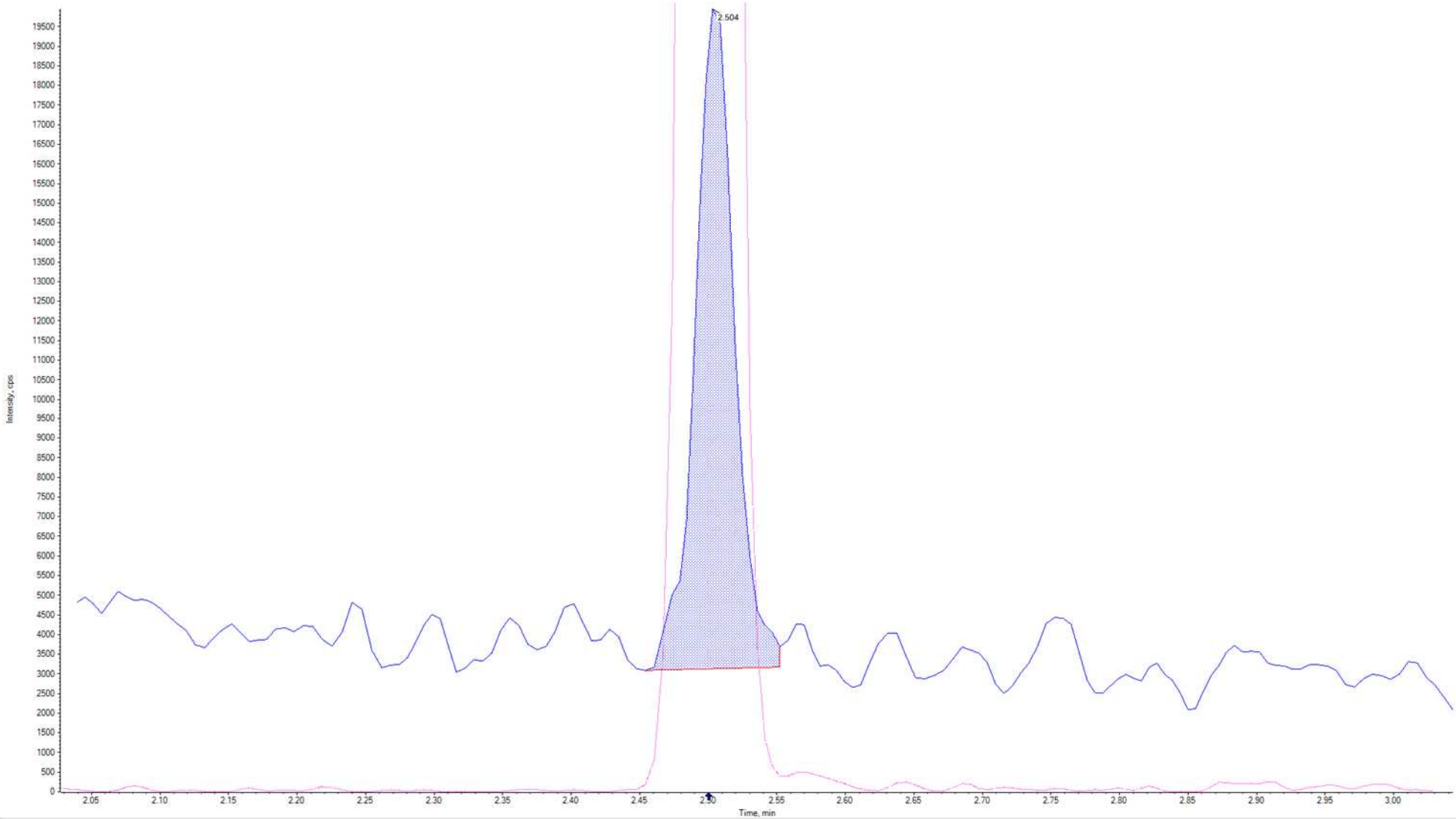


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PFHxA_2
Sample: L2512271-01R S/N:45.5 Points Across peak:14

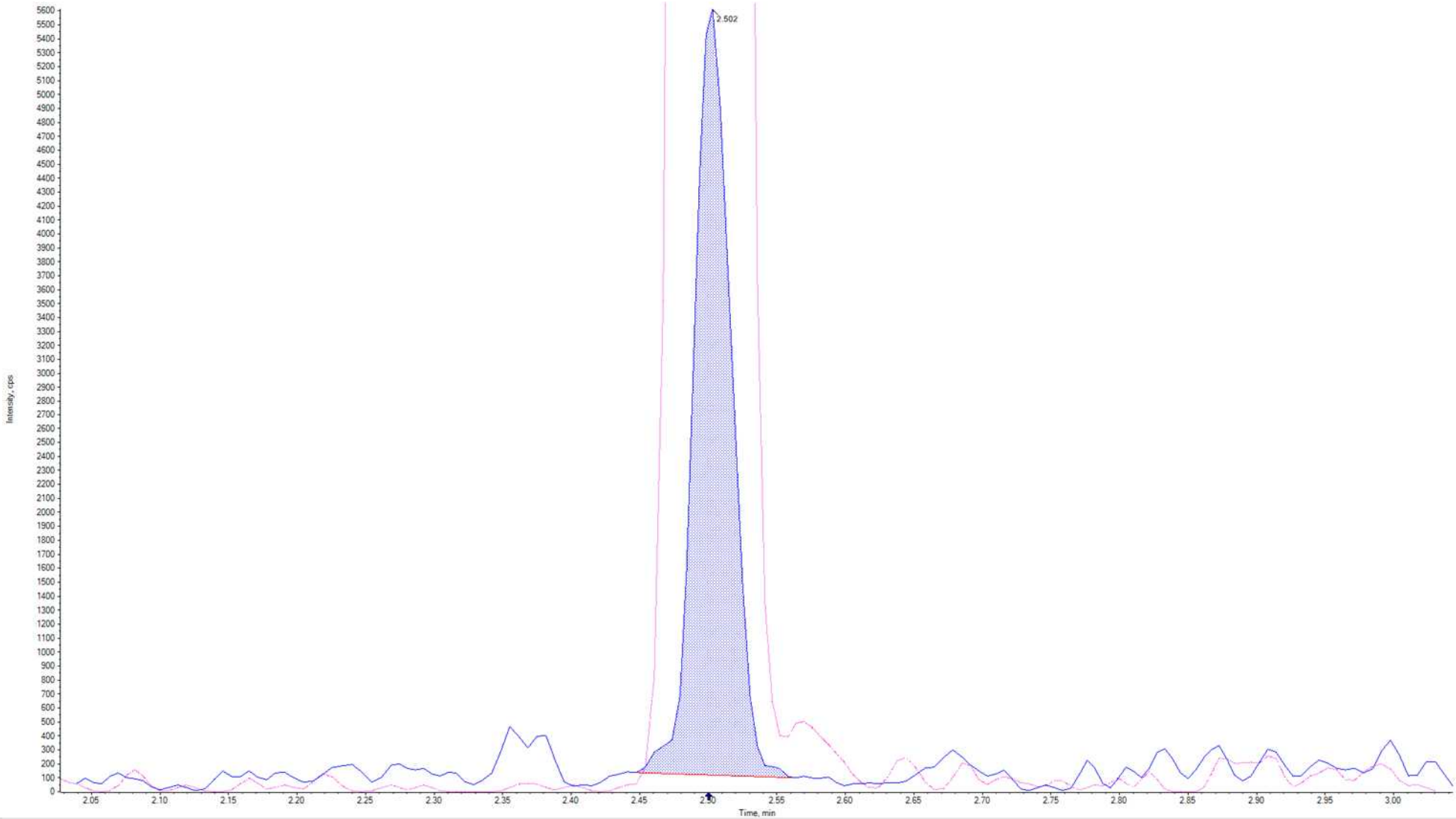


PFHpA
Sample: L2512271-01R S/N:80.8 Points Across peak:19



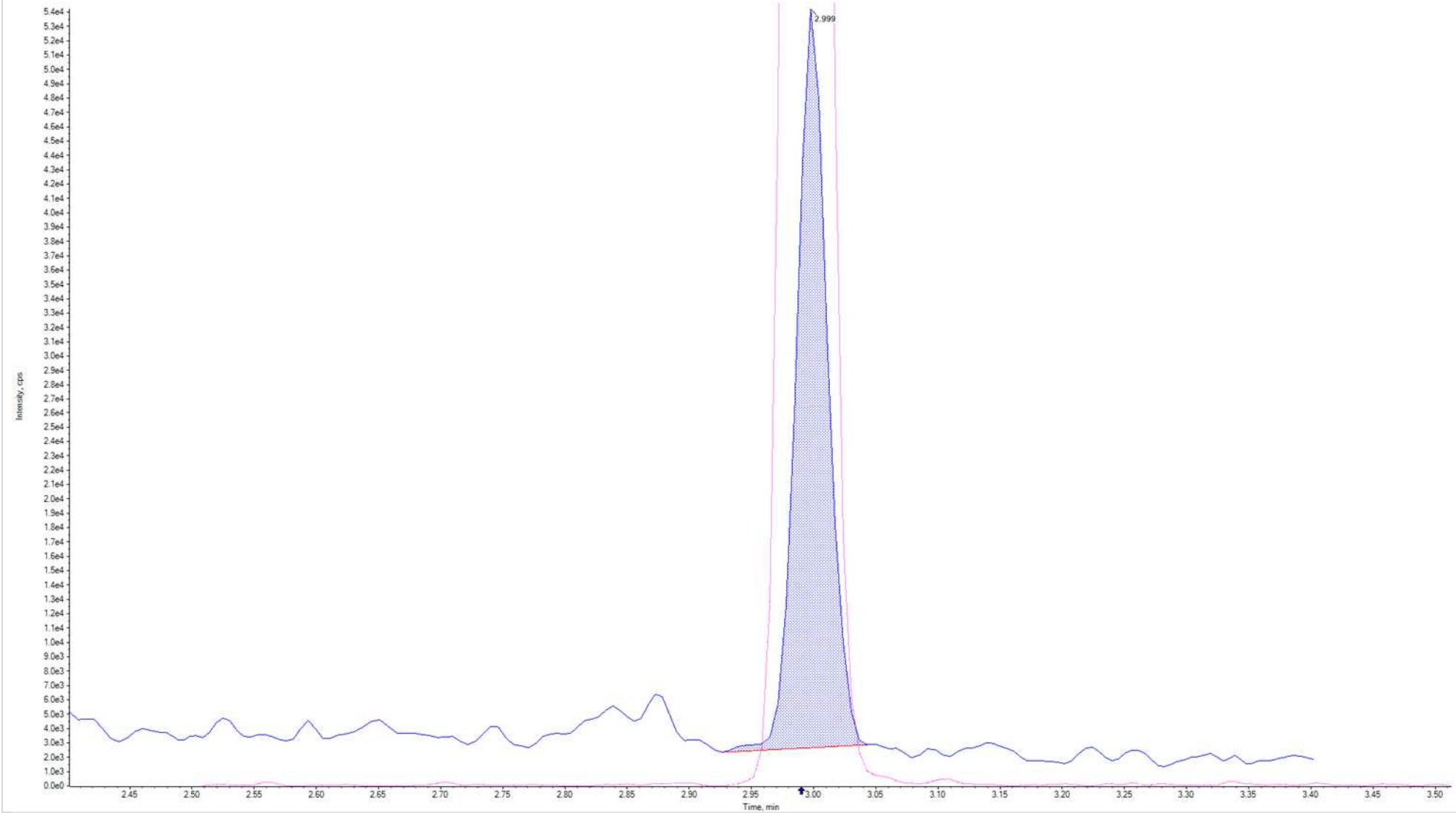
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PFHpA_2
Sample: L2512271-01R S/N:110.1 Points Across peak:22



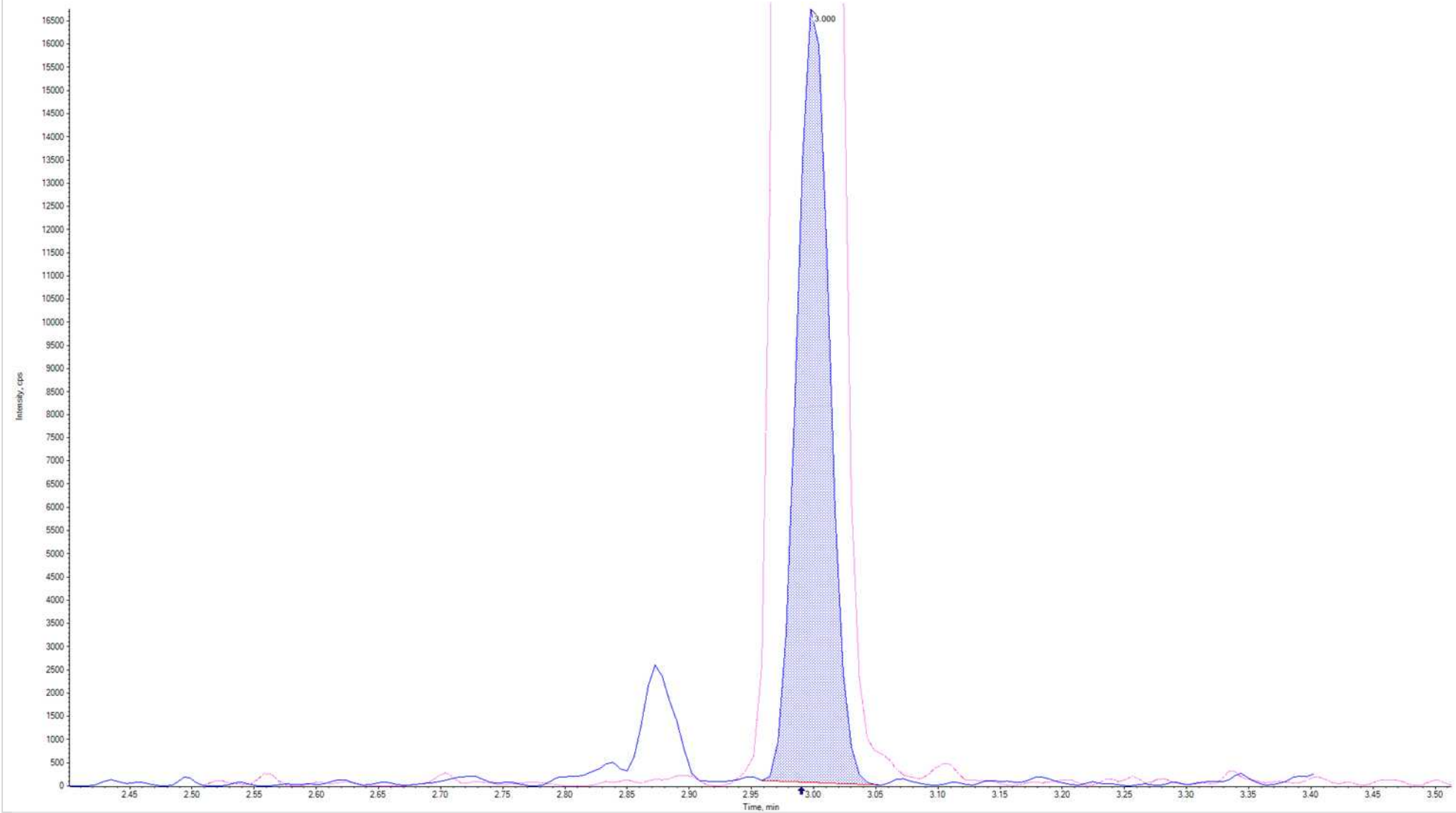
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PFOA
Sample: L2512271-01R S/N:141.6 Points Across peak:19



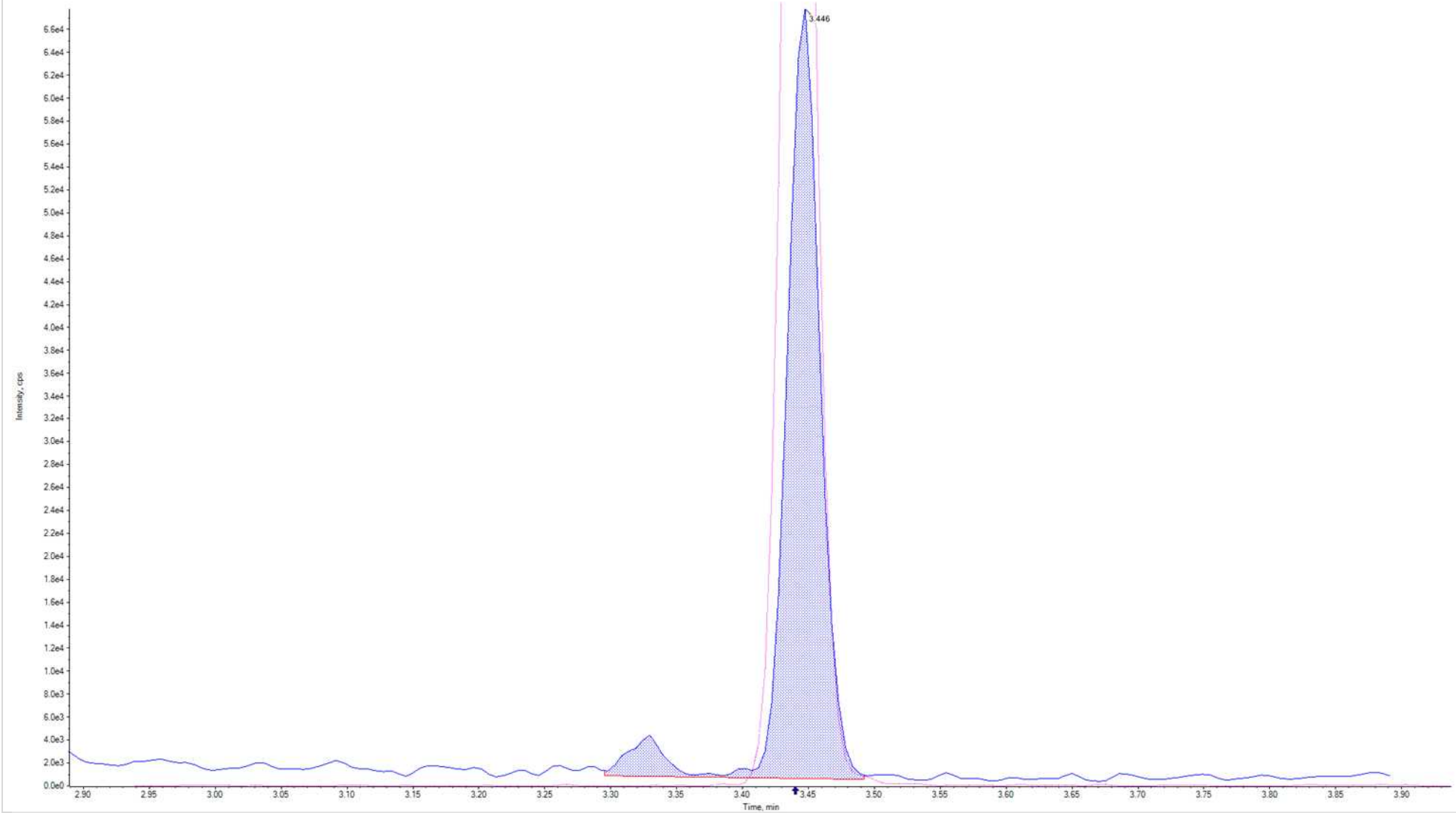
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PFOA_2
Sample: L2512271-01R S/N:258.2 Points Across peak:16



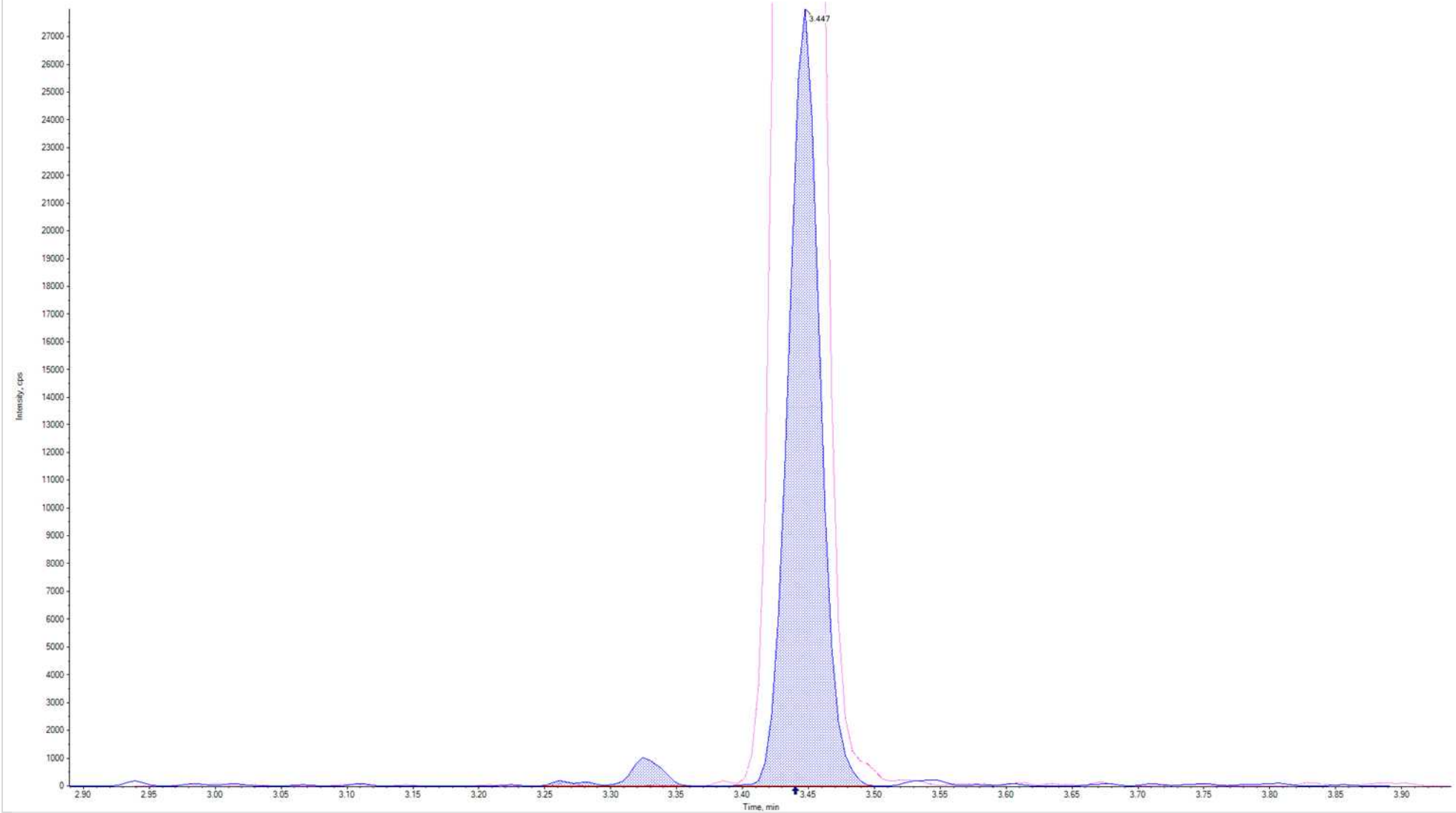
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PFNA
Sample: L2512271-01R S/N:263.7 Points Across peak:40

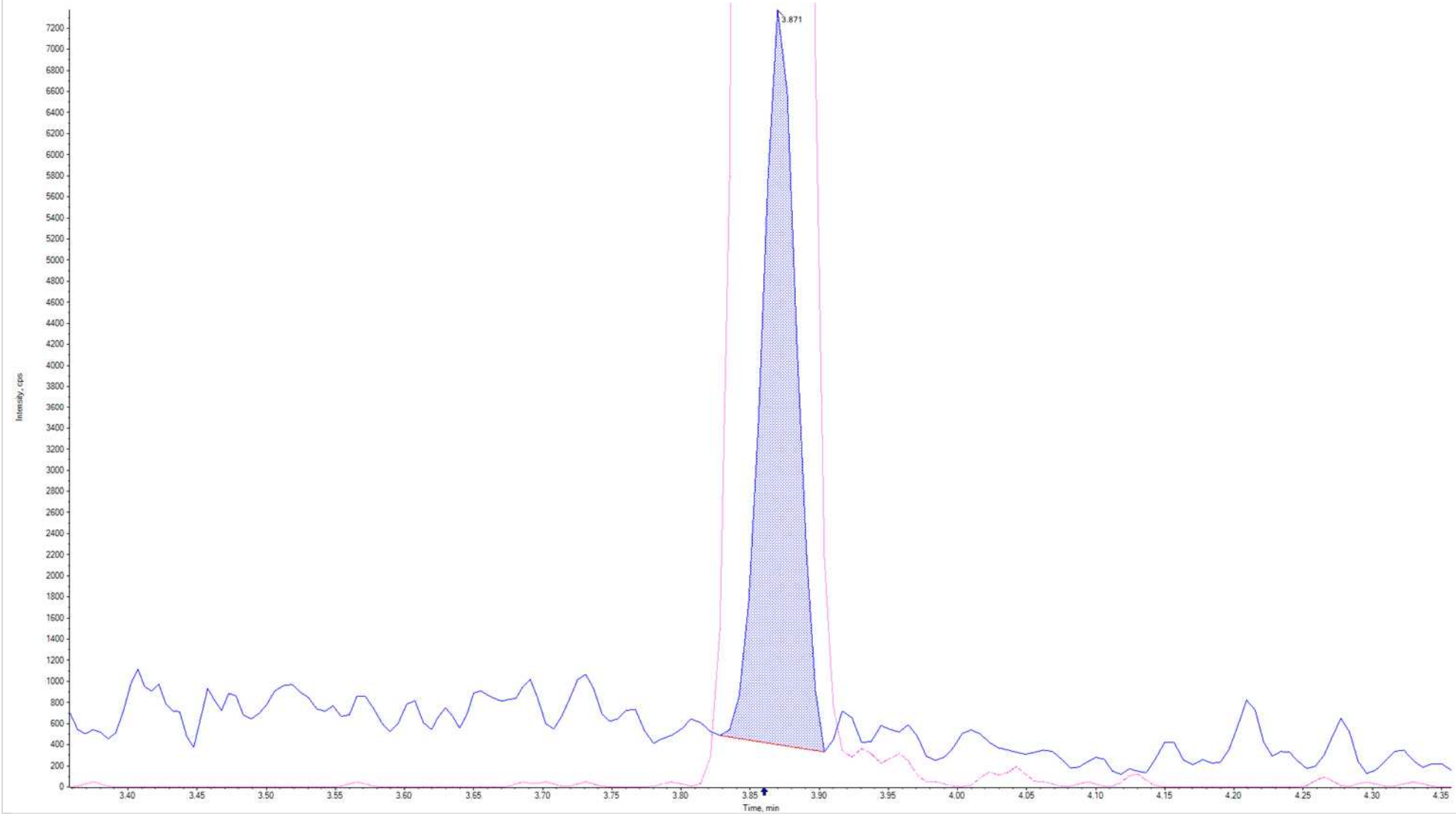


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PFNA_2
Sample: L2512271-01R S/N:631.4 Points Across peak:52

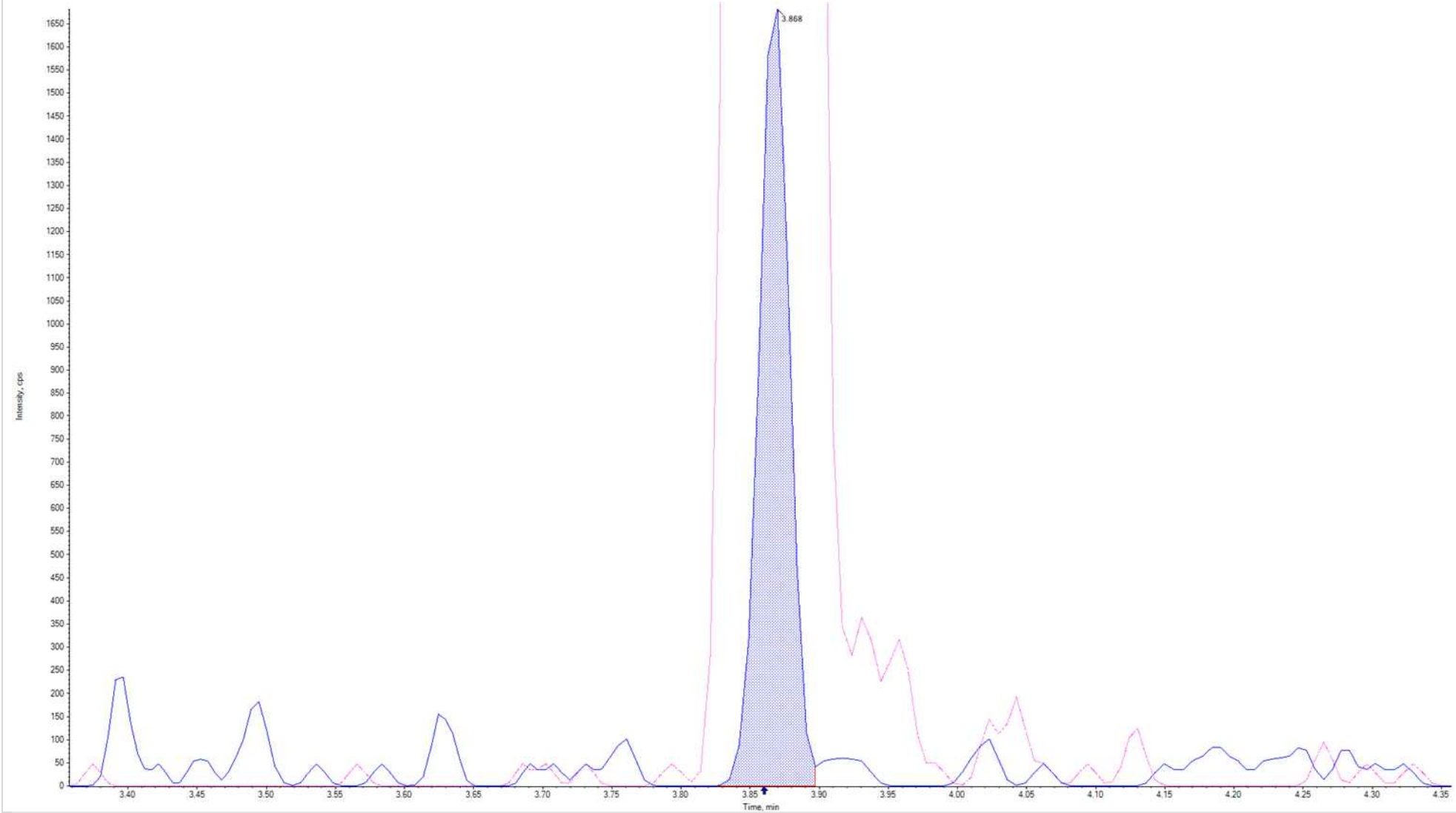


PFDA
Sample: L2512271-01R S/N:139.8 Points Across peak:12



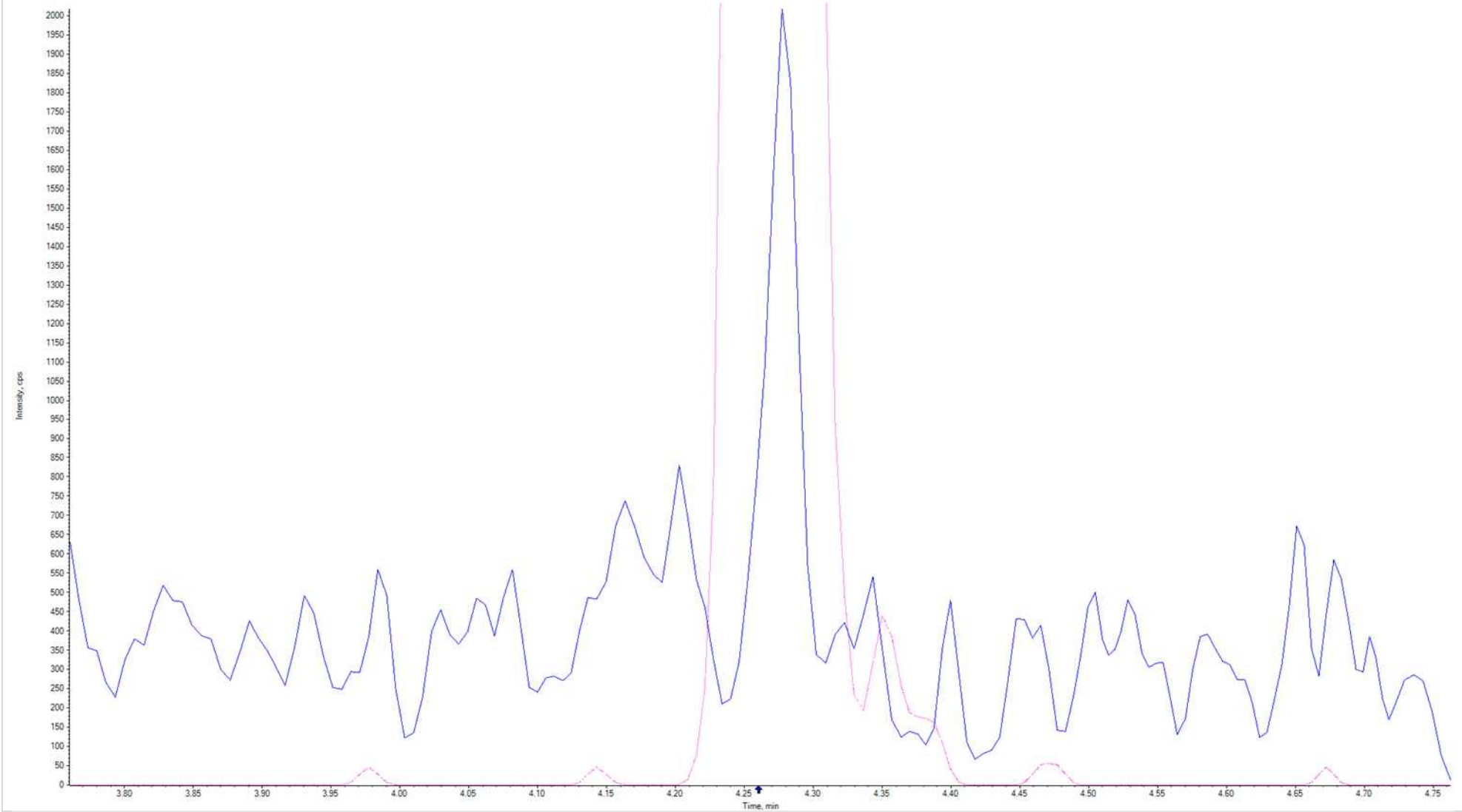
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PFDA_2
Sample: L2512271-01R S/N:33.7 Points Across peak:15

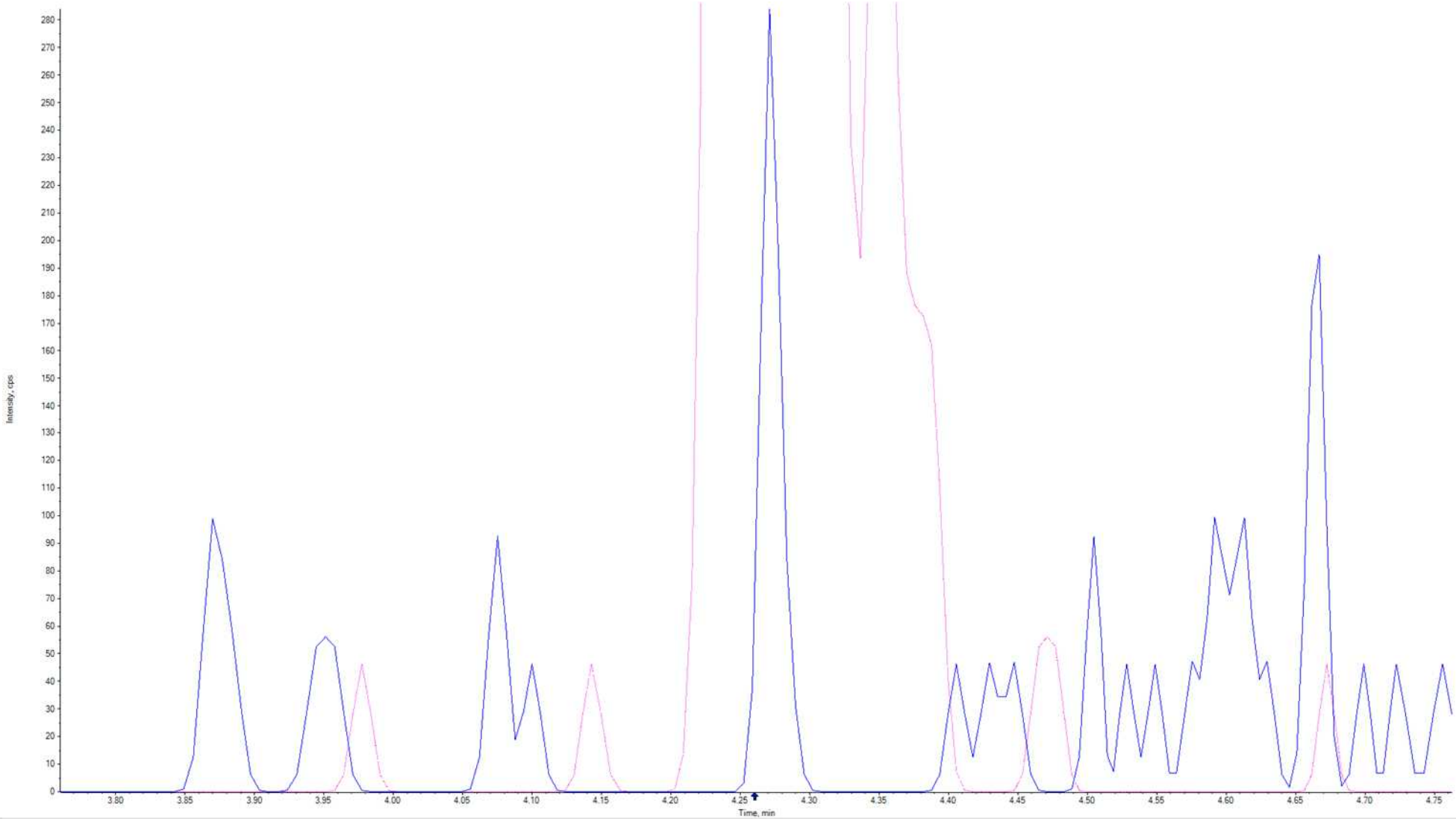


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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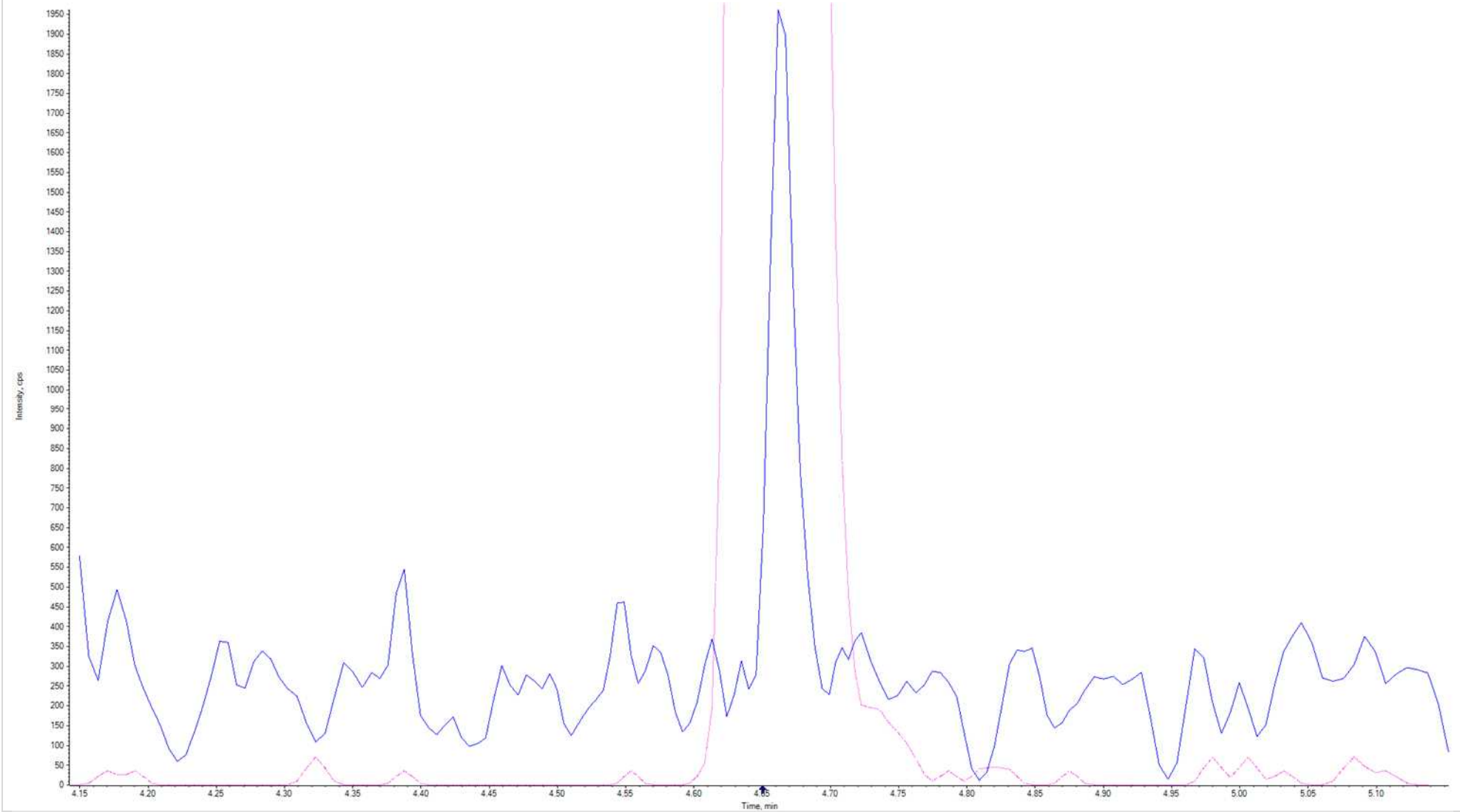
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Sample: L2512271-01R S/N:N/A Points Across peak:N/A



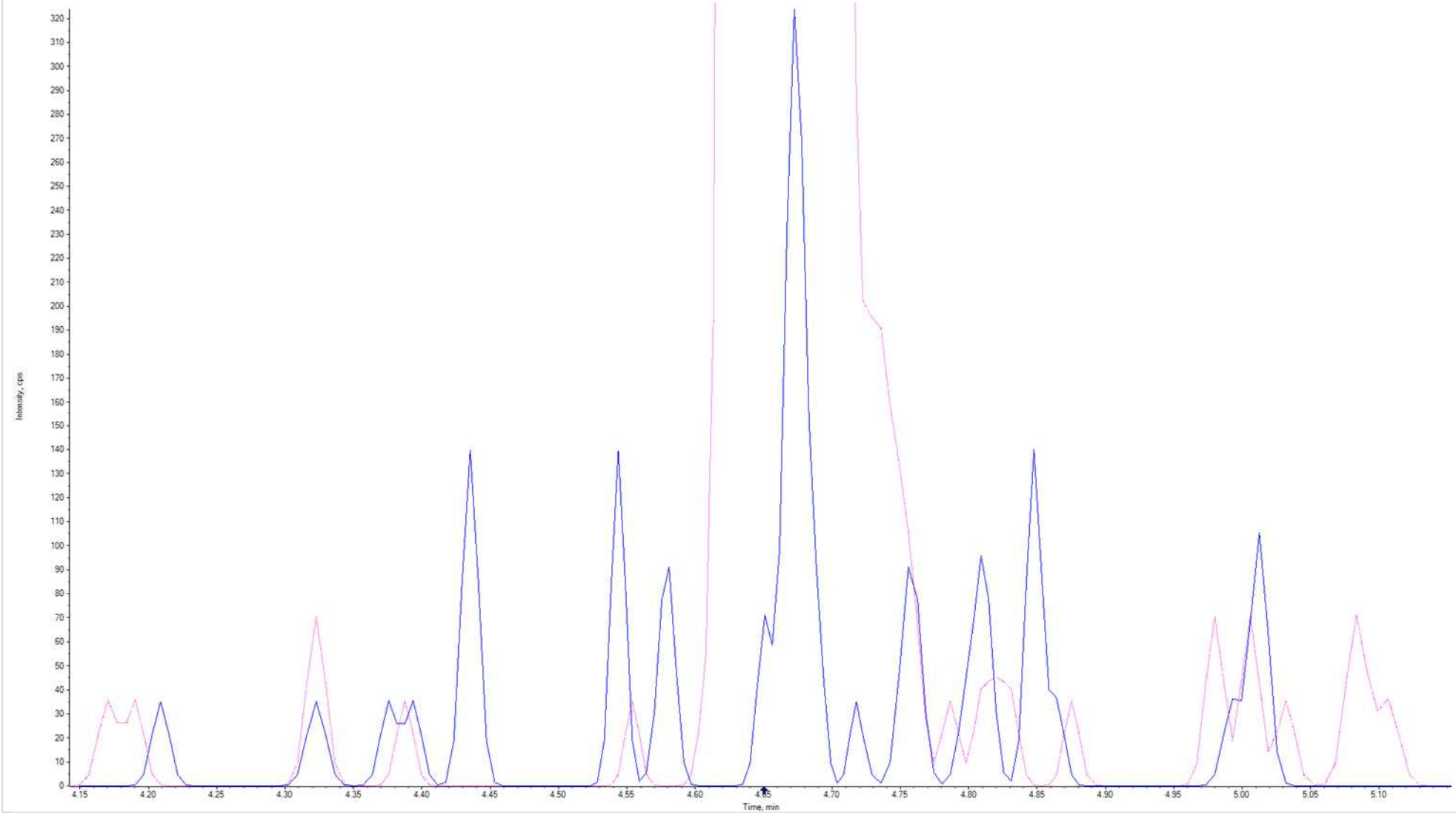
PFUnA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



PFDoA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

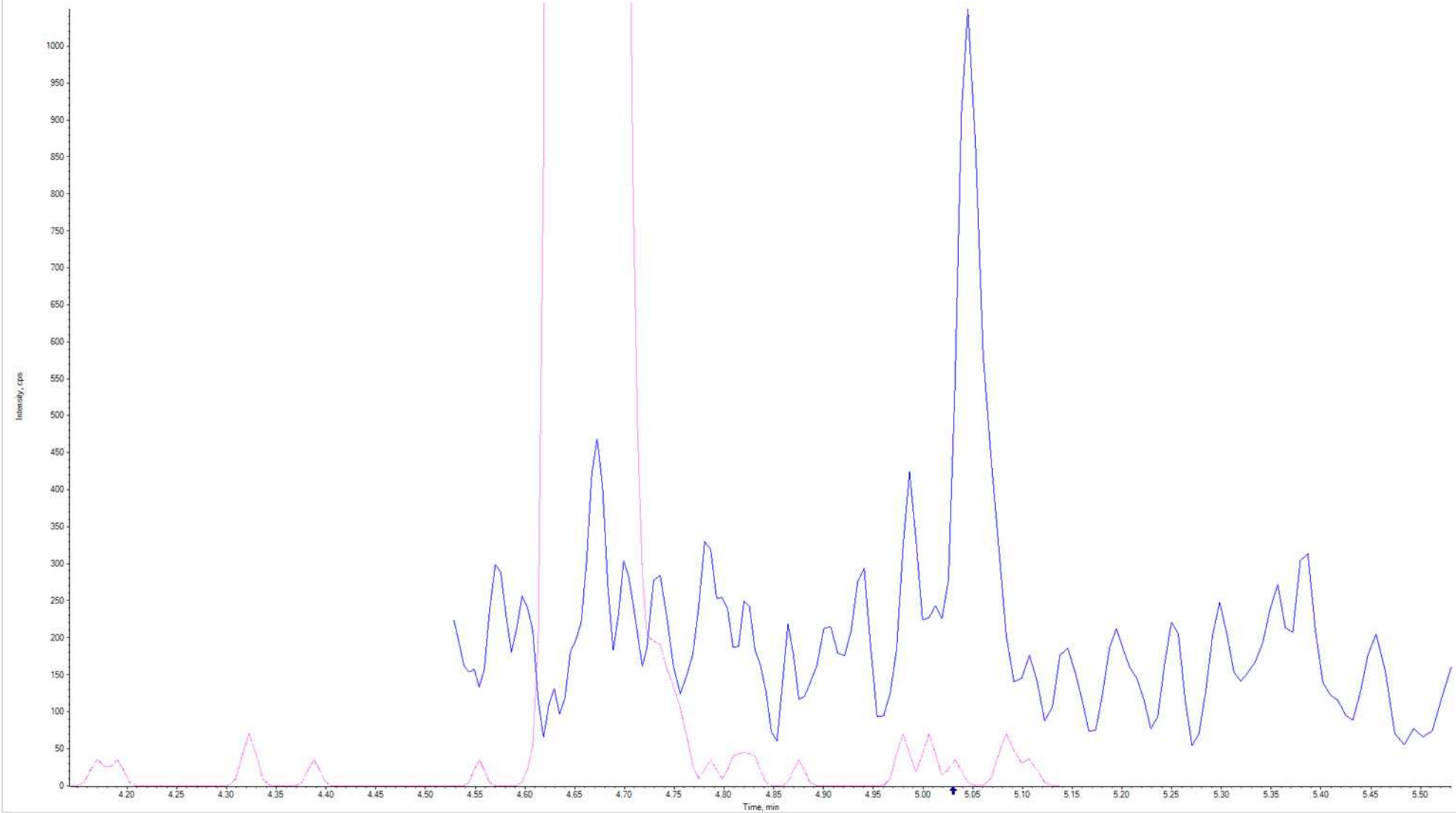


PFDoA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

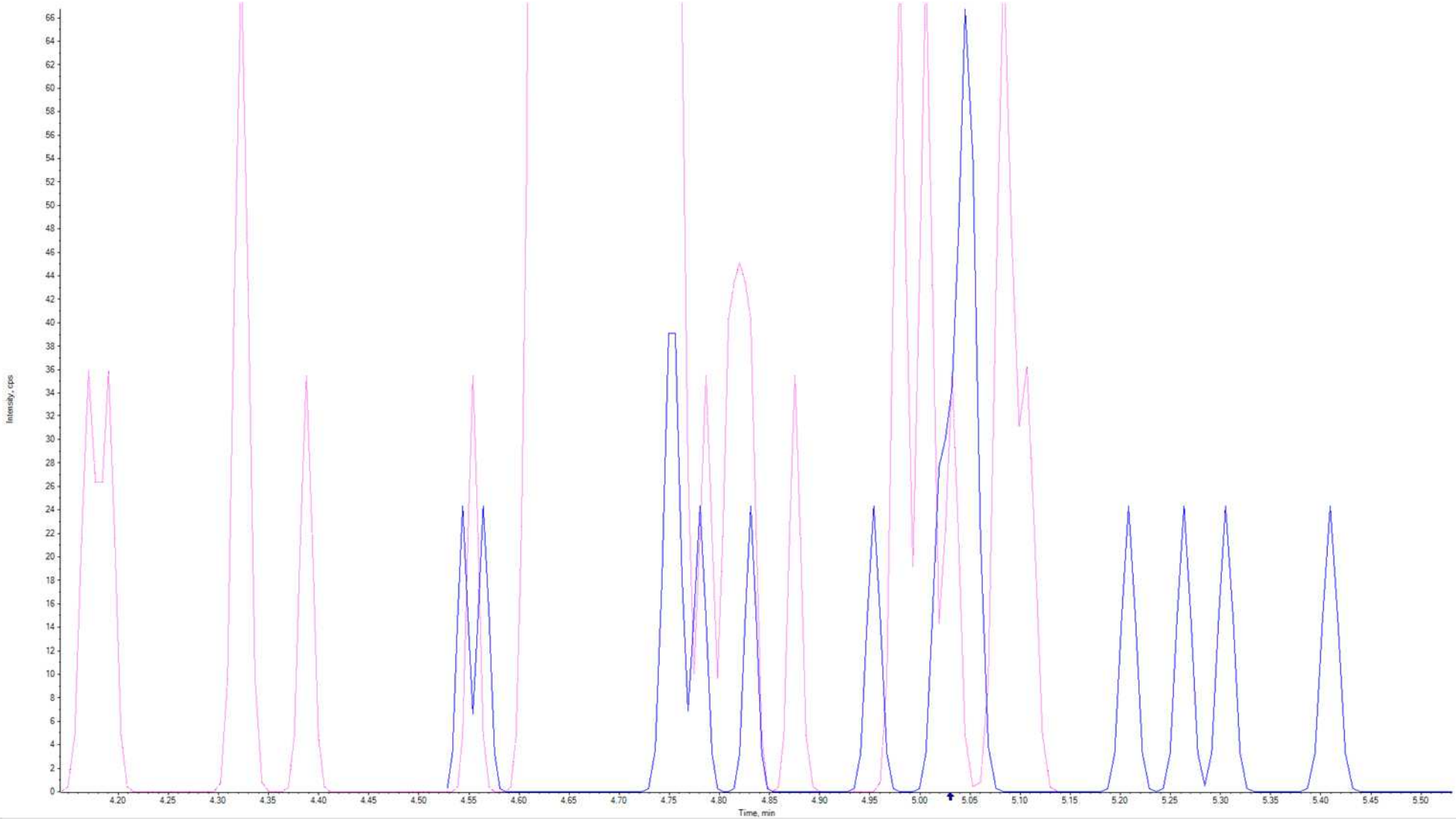


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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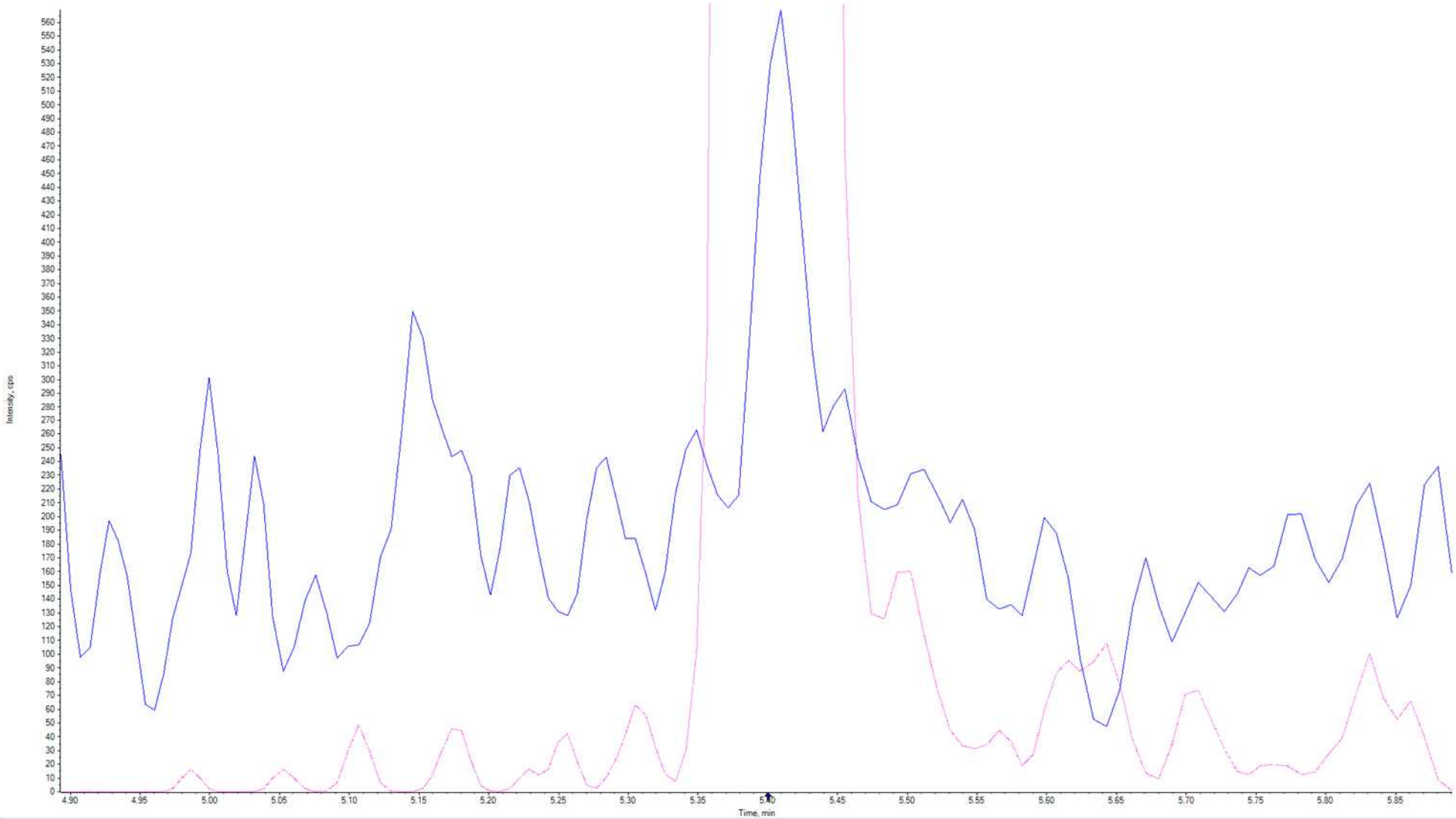
PFTrDA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



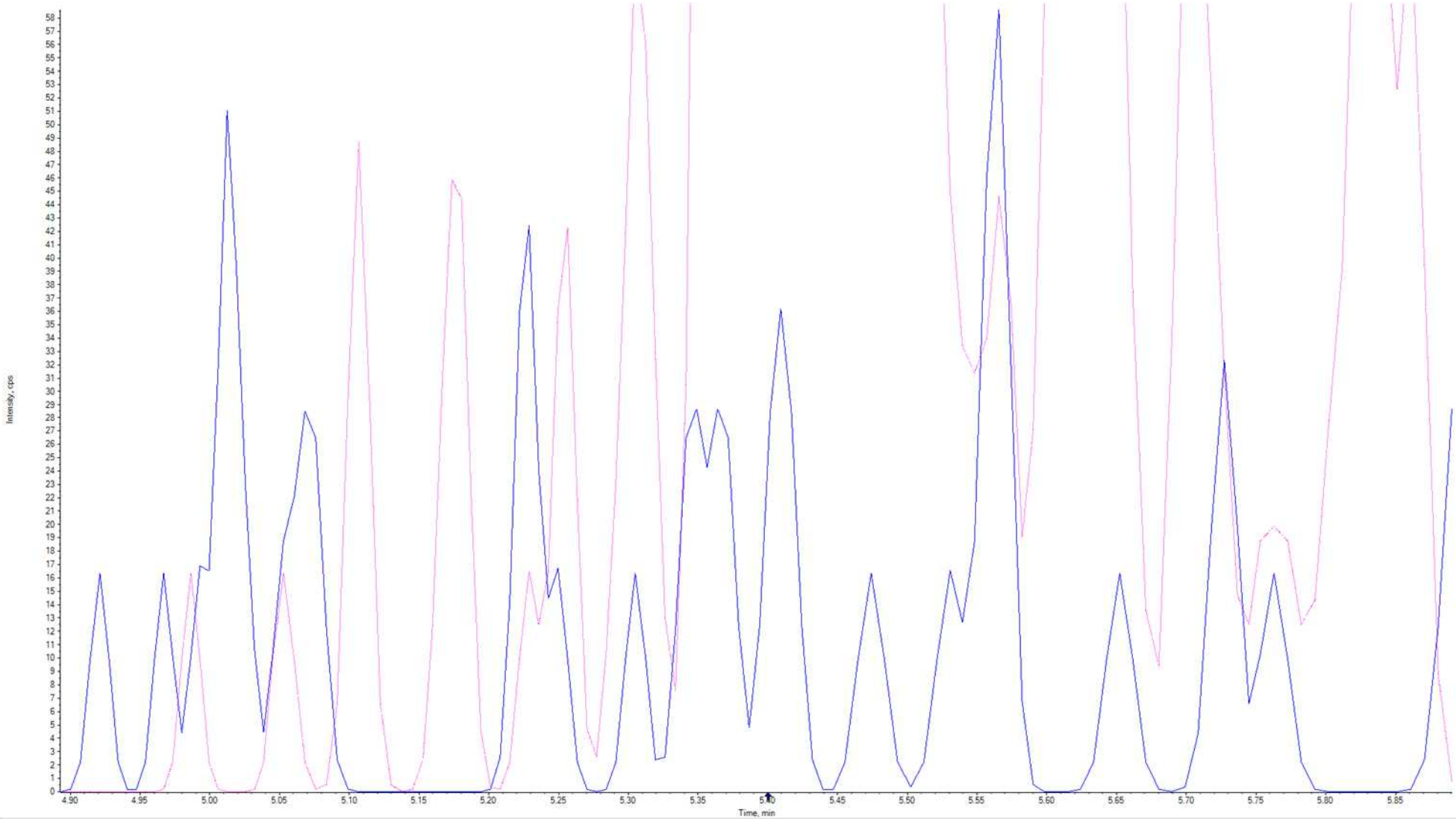
PFTrDA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



PFTeDA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

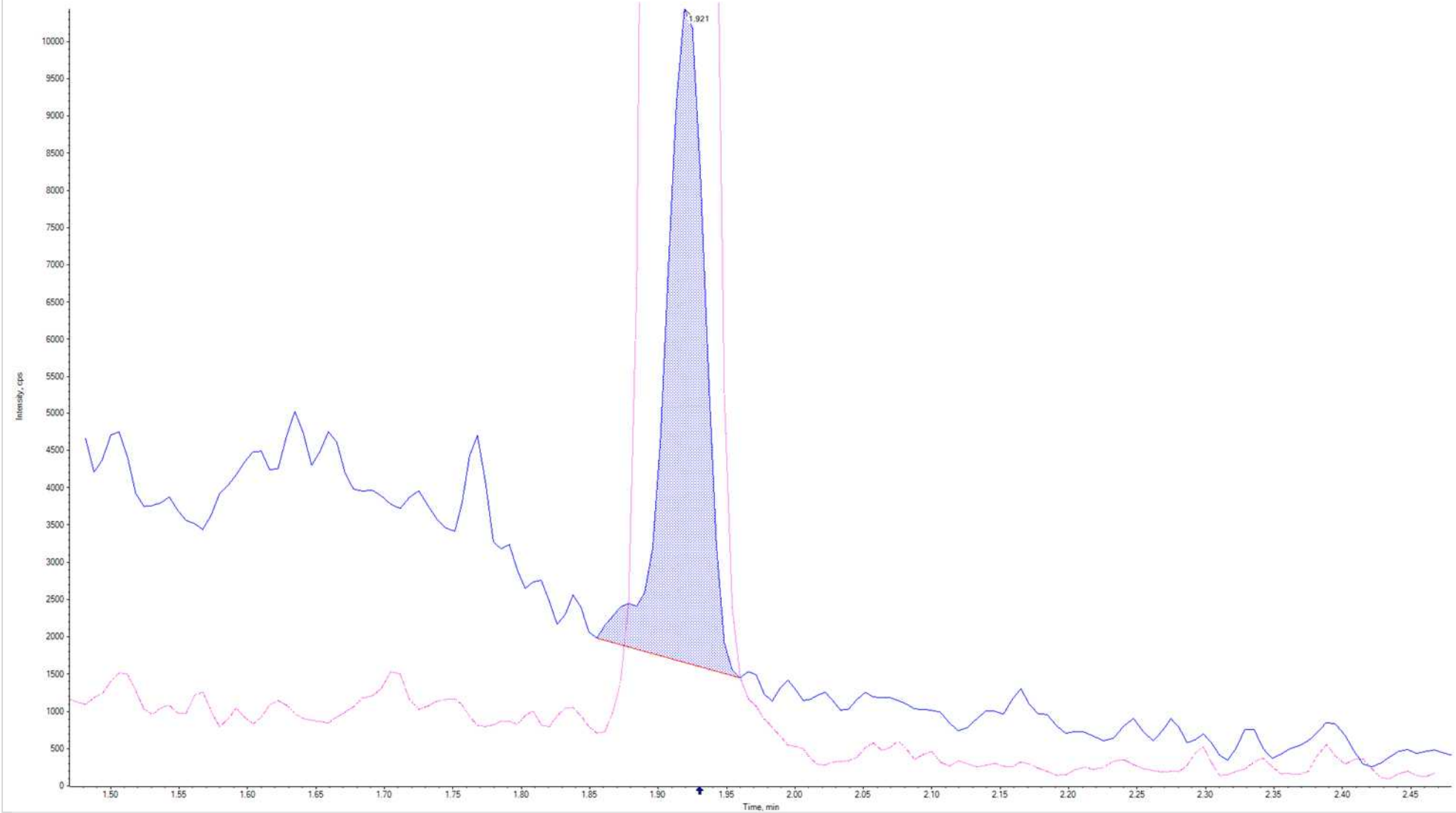


PFTeDA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



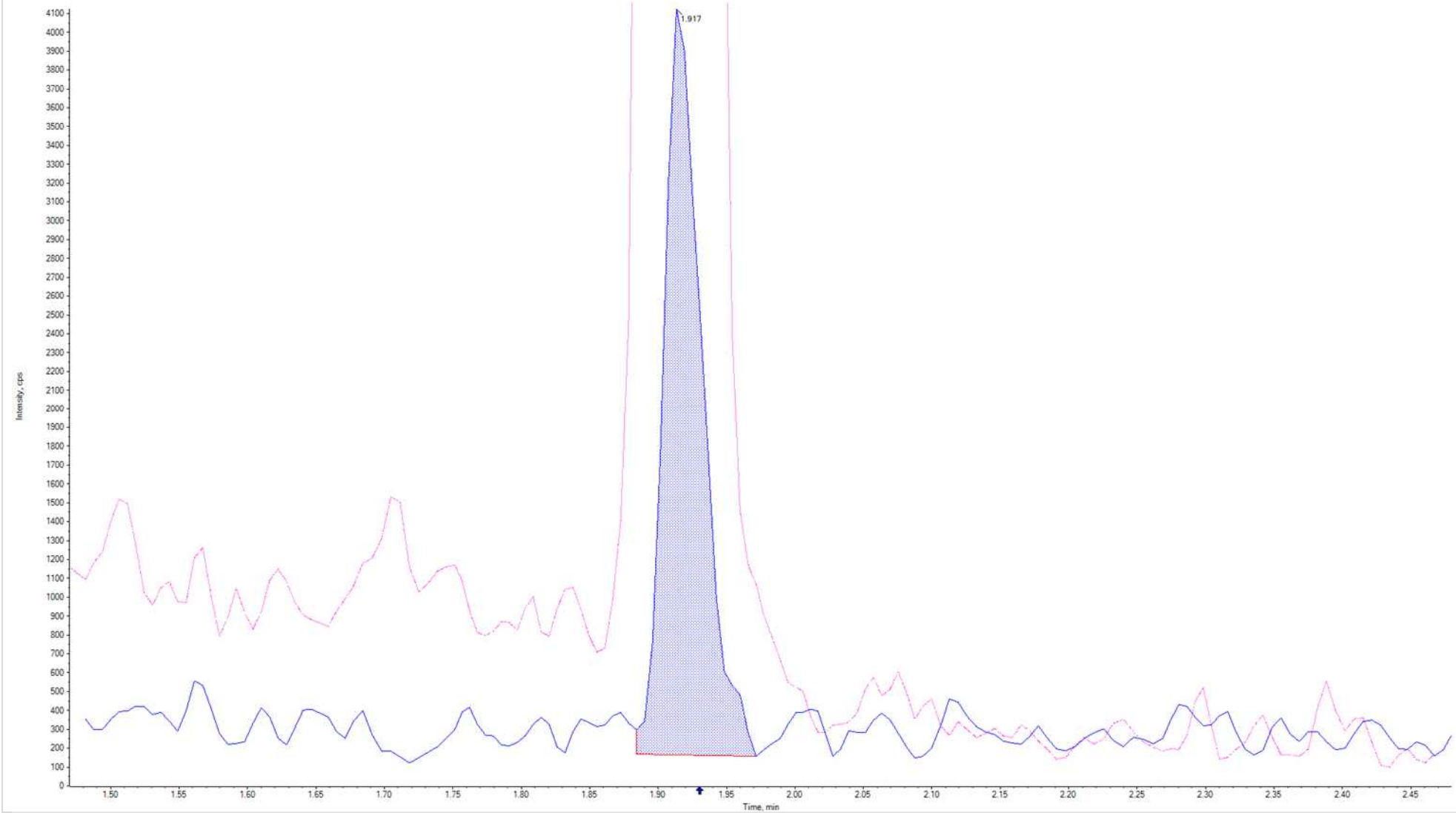
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Alpha Analytical LLC
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PFBS
Sample: L2512271-01R S/N:152.9 Points Across peak:19



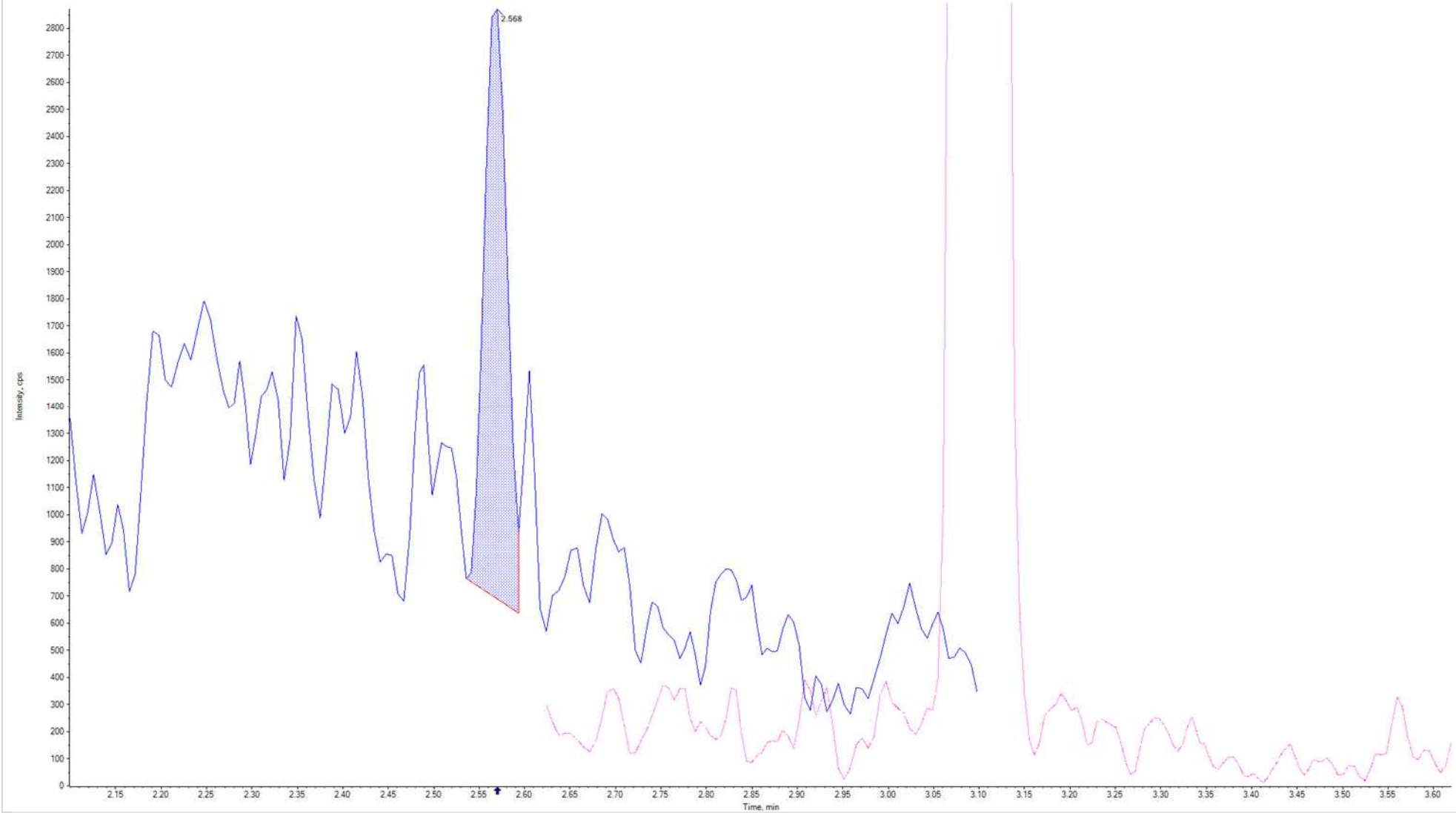
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFBS_2
Sample: L2512271-01R S/N:99.2 Points Across peak:16

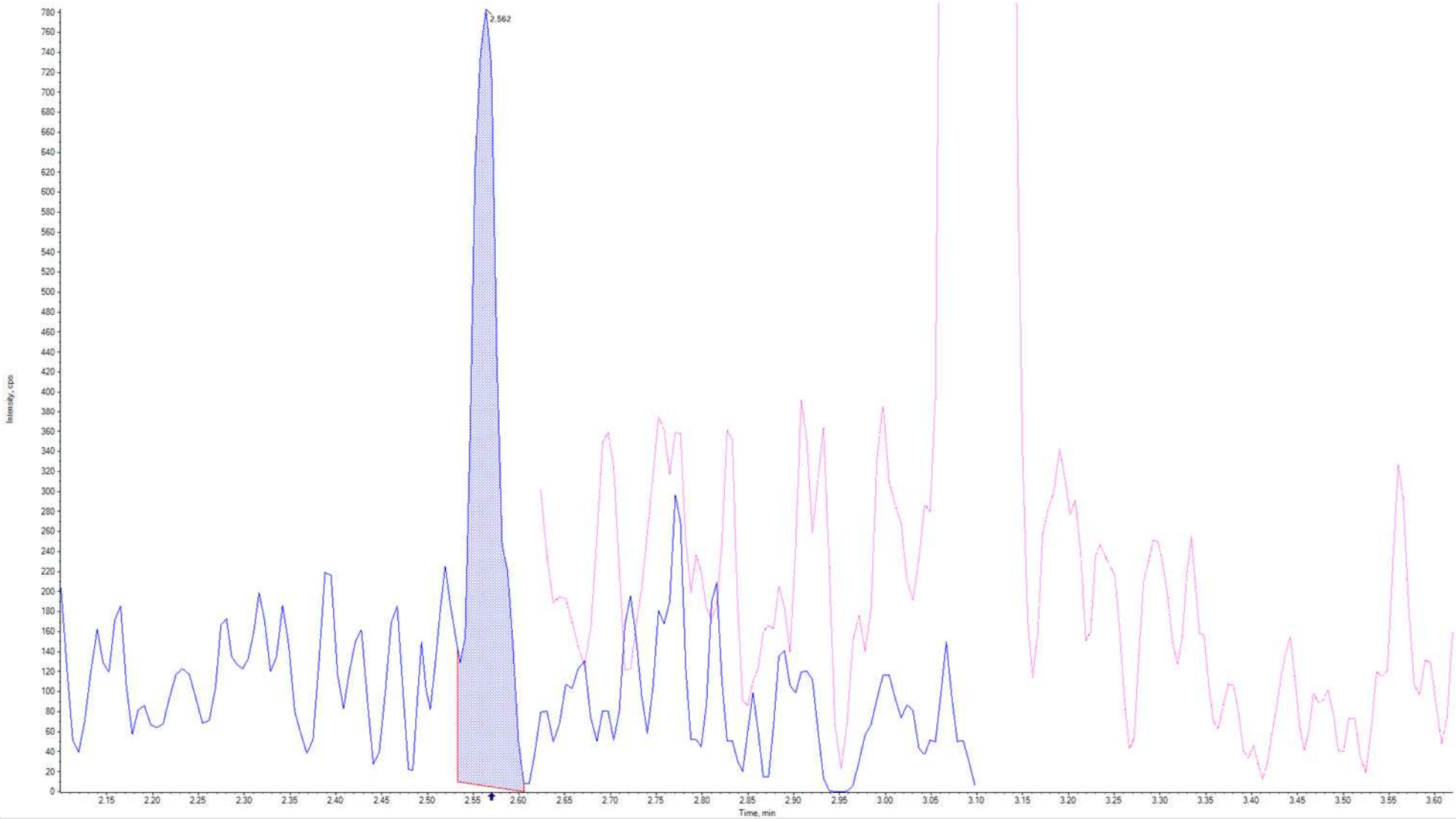


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PFPeS
Sample: L2512271-01R S/N:34.3 Points Across peak:11

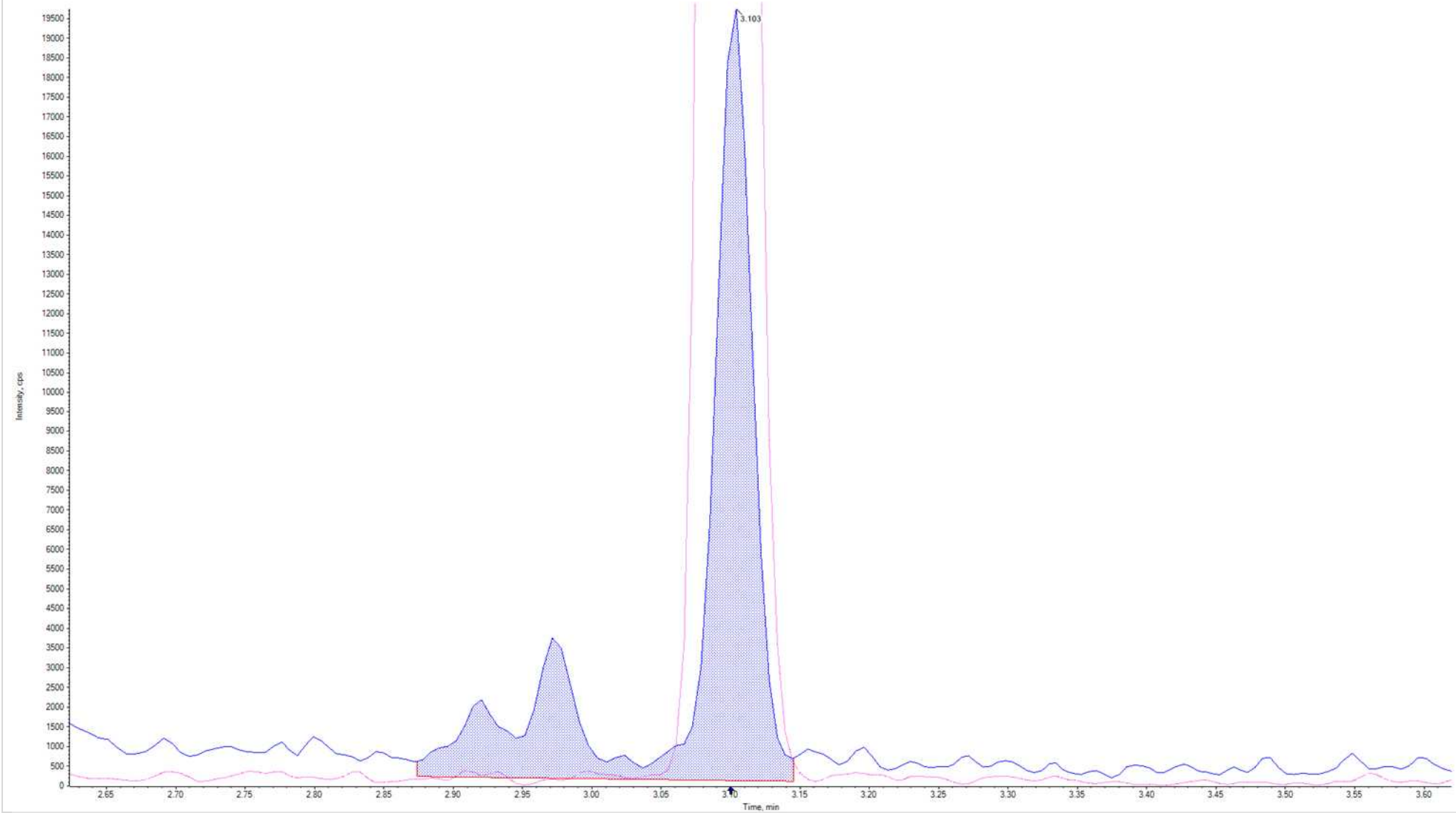


PFPeS_2
Sample: L2512271-01R S/N:15.6 Points Across peak:15



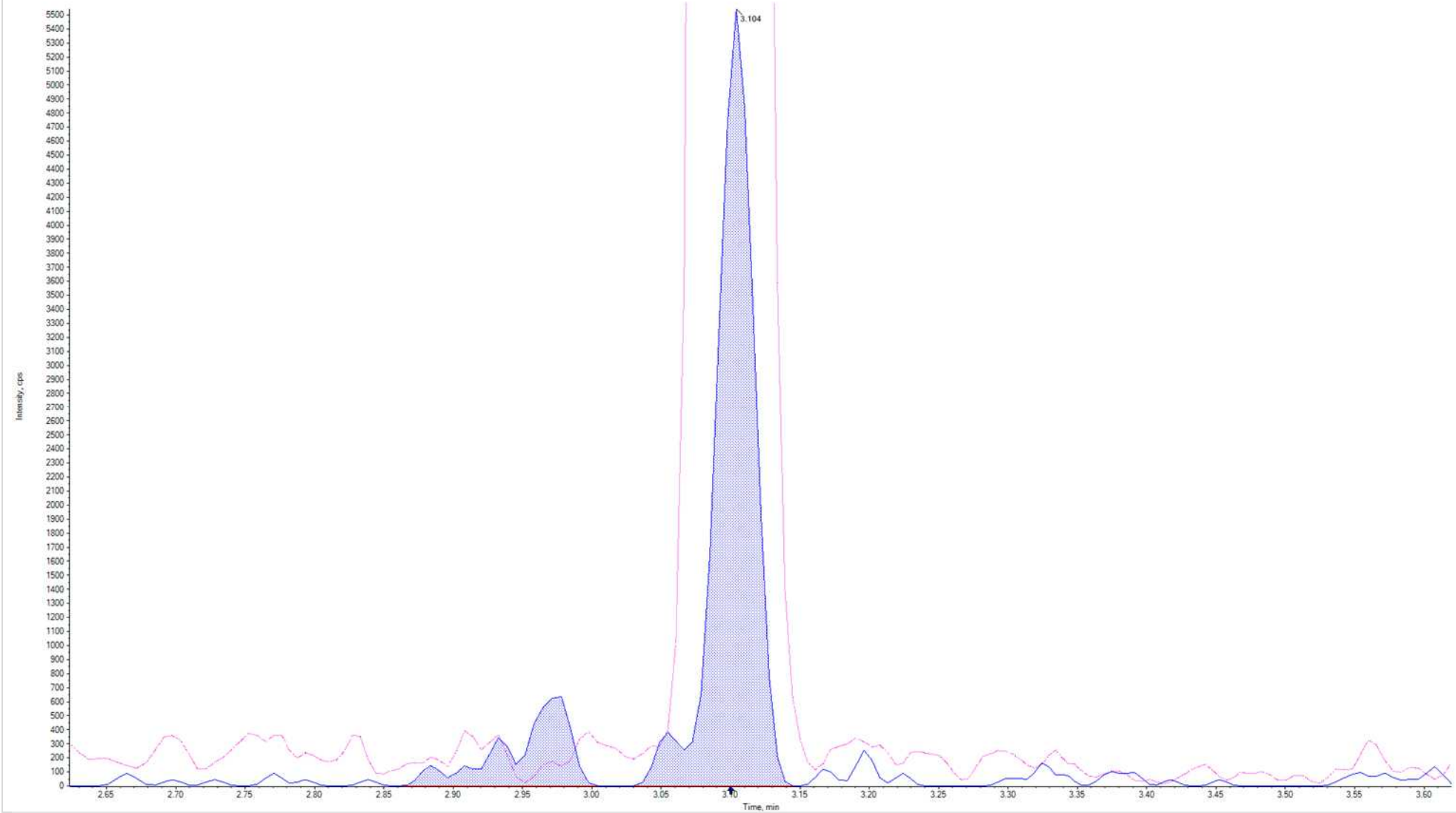
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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PFHxS
Sample: L2512271-01R S/N:123.4 Points Across peak:46



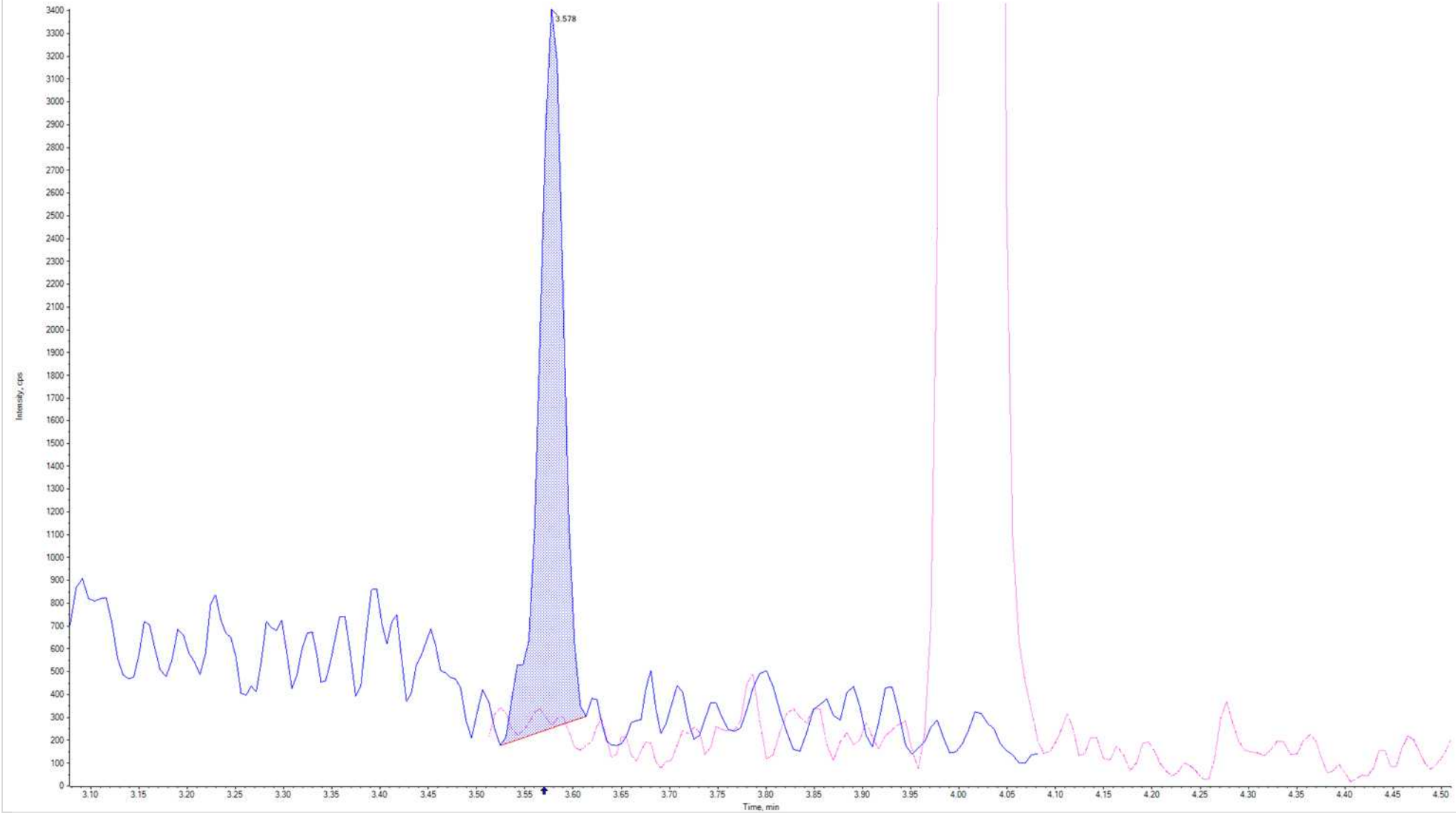
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Alpha Analytical LLC
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PFHxS_2
Sample: L2512271-01R S/N:125.0 Points Across peak:48

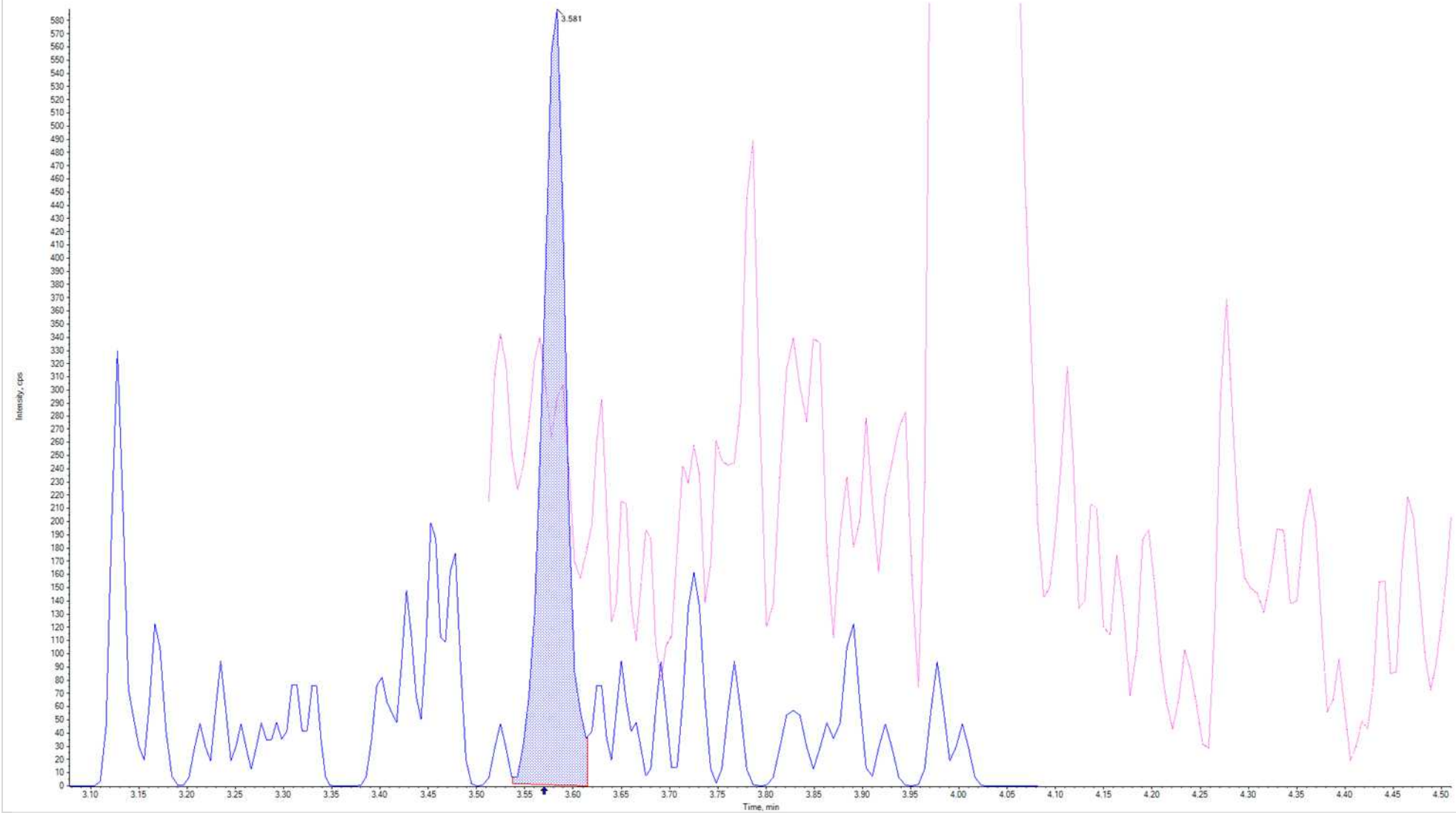


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFHpS
Sample: L2512271-01R S/N:63.2 Points Across peak:16

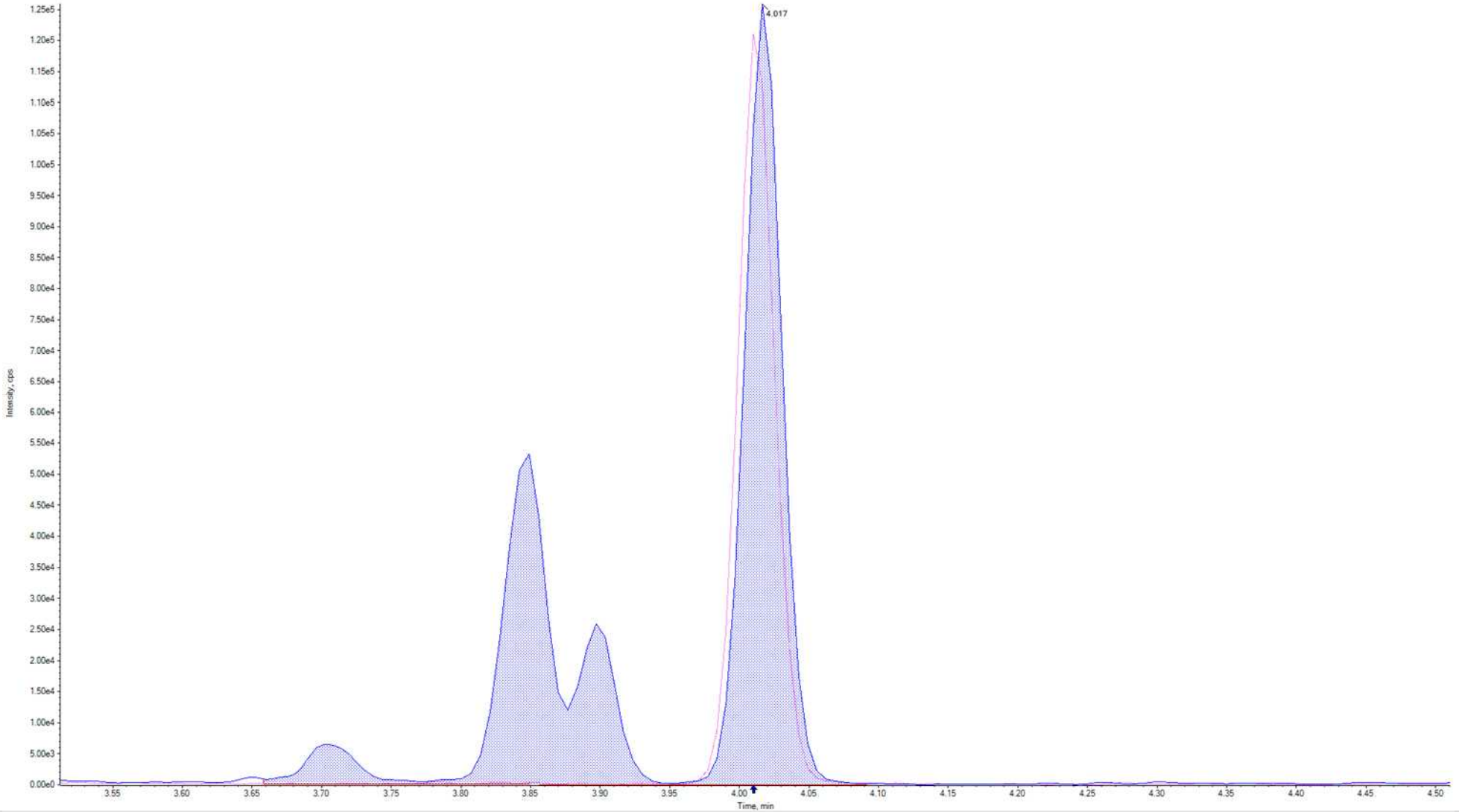


PFHpS_2
Sample: L2512271-01R S/N:11.8 Points Across peak:15



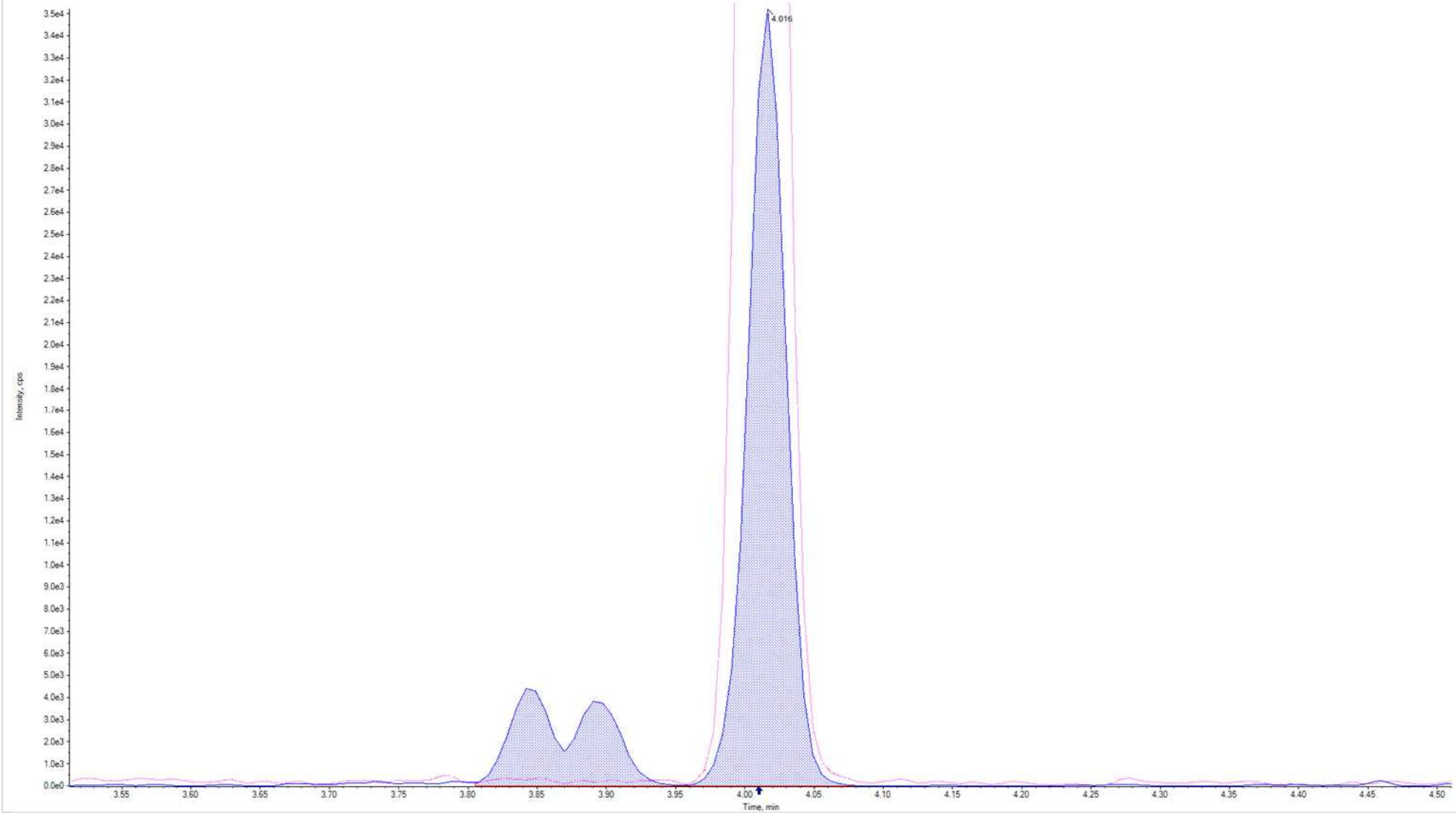
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Alpha Analytical LLC
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PFOS
Sample: L2512271-01R S/N:226.1 Points Across peak:70



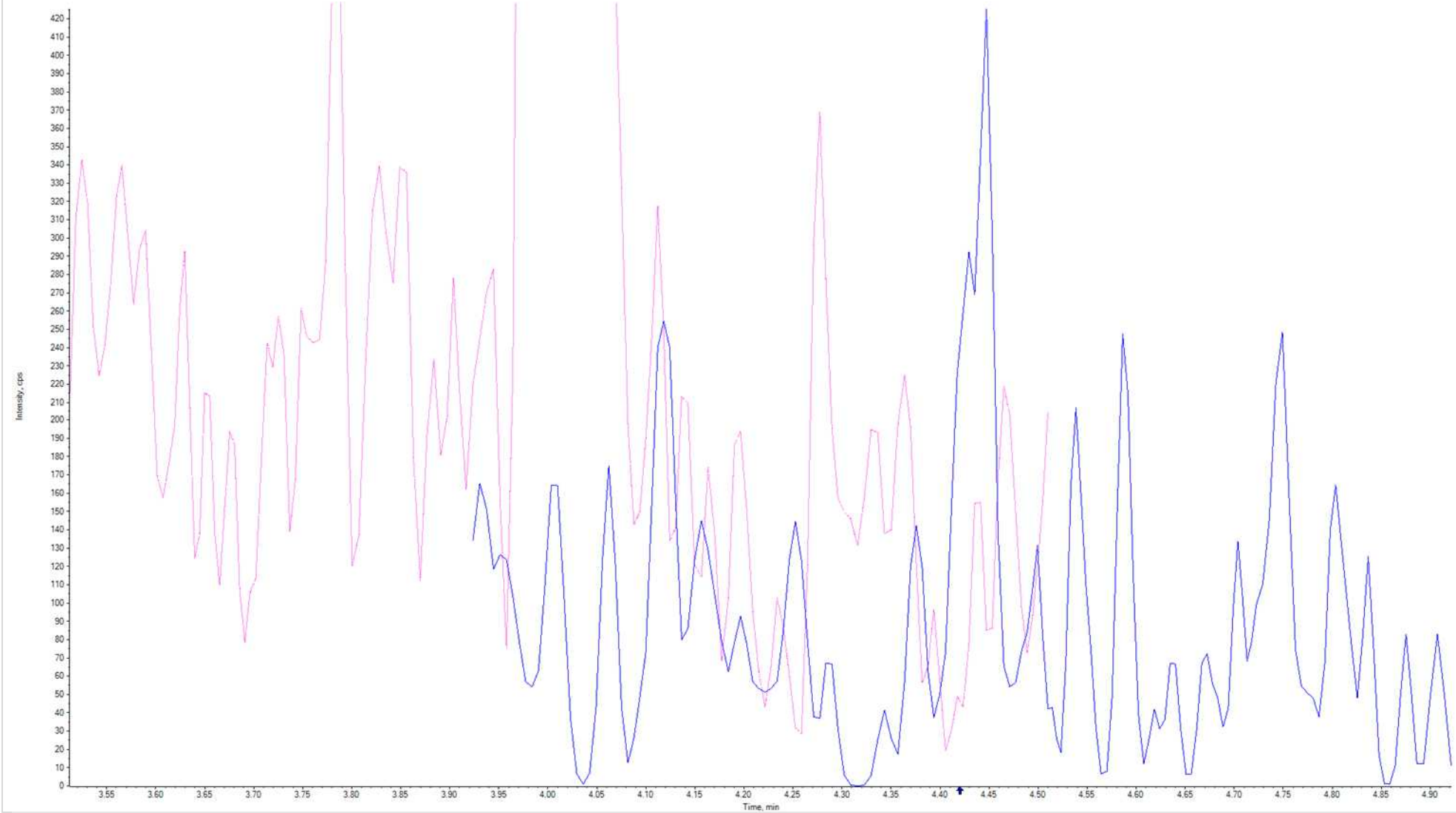
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Alpha Analytical LLC
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PFOS_2
Sample: L2512271-01R S/N:416.3 Points Across peak:44



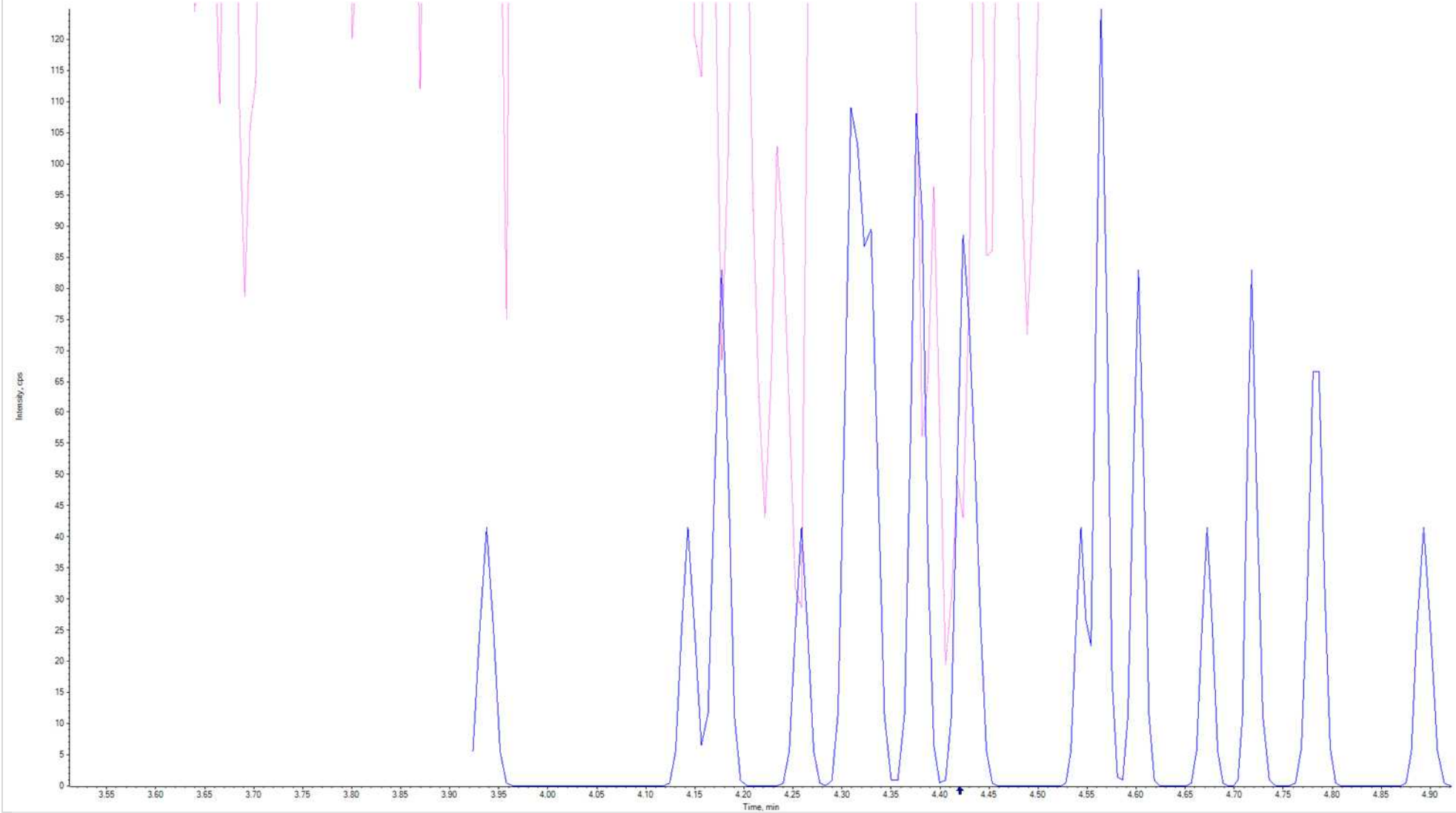
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PFNS
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

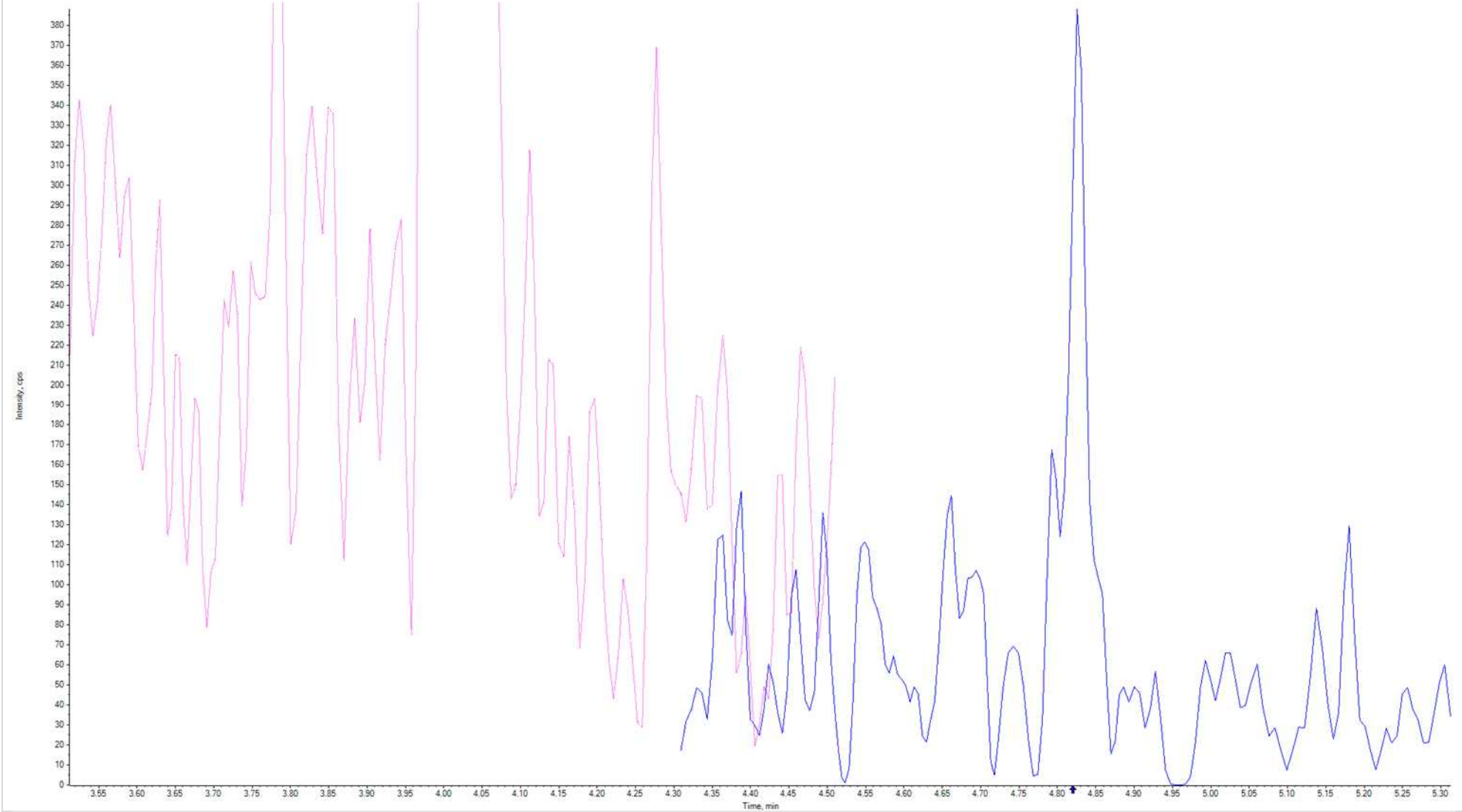


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PFNS_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

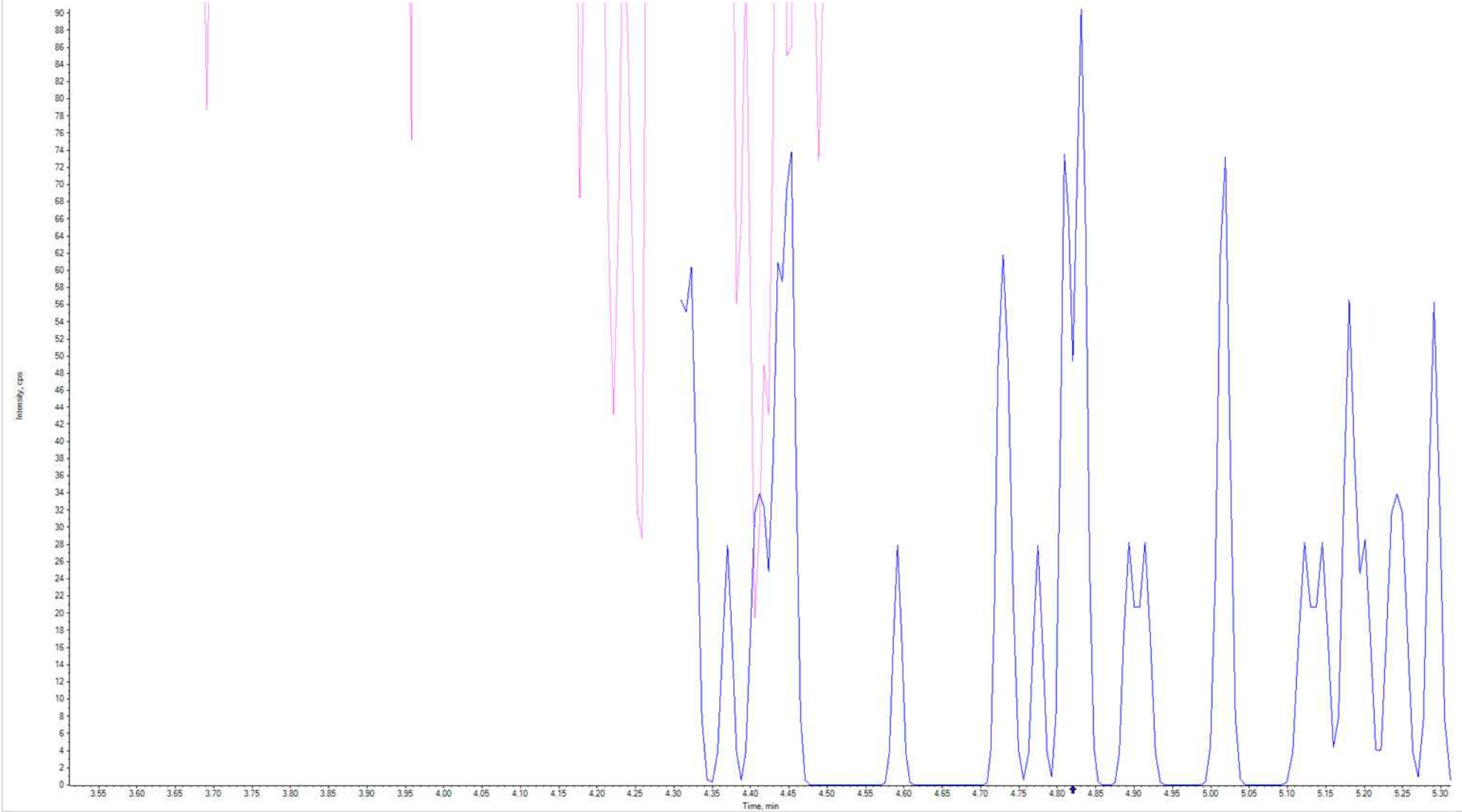


PFDS
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

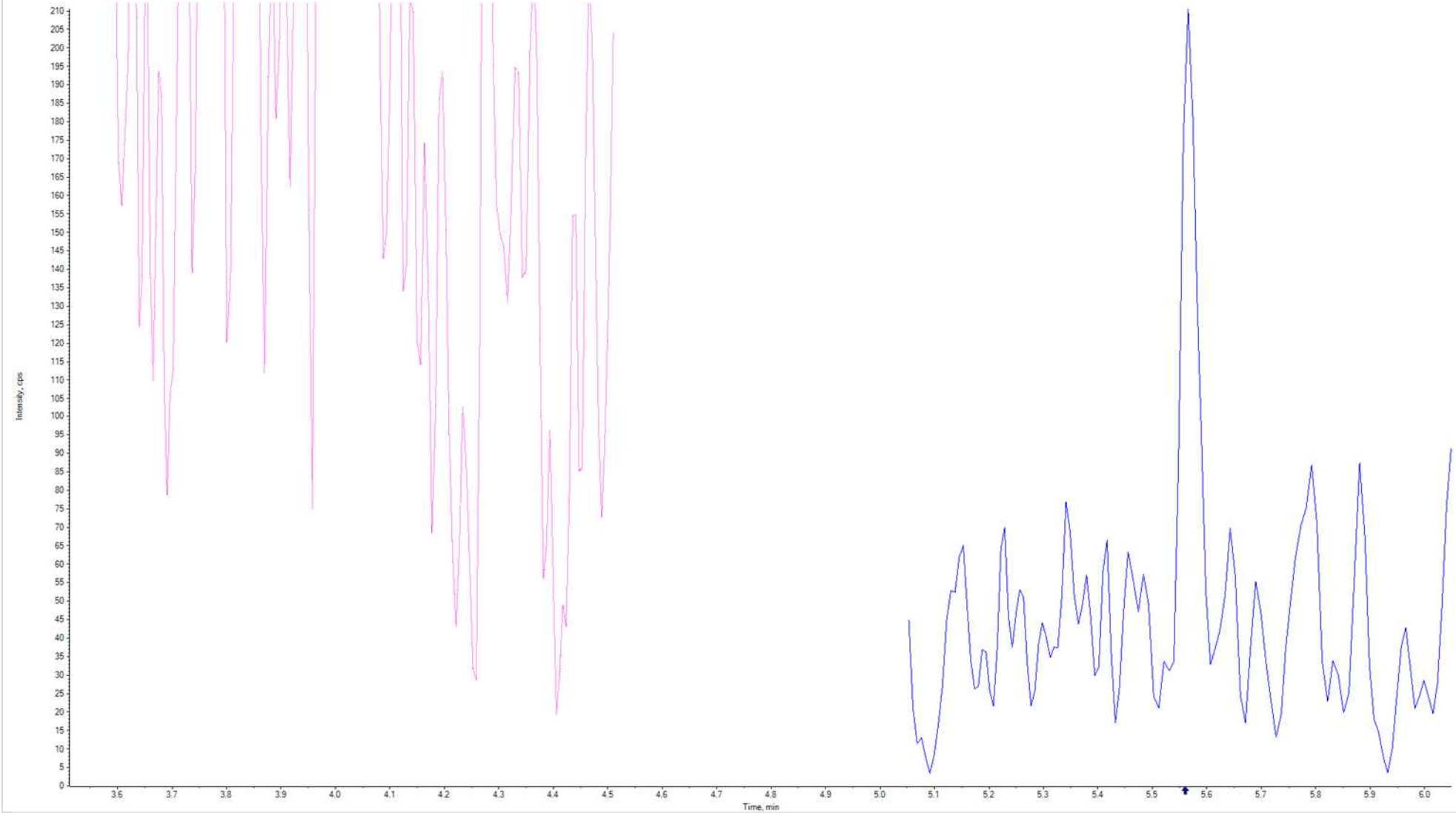


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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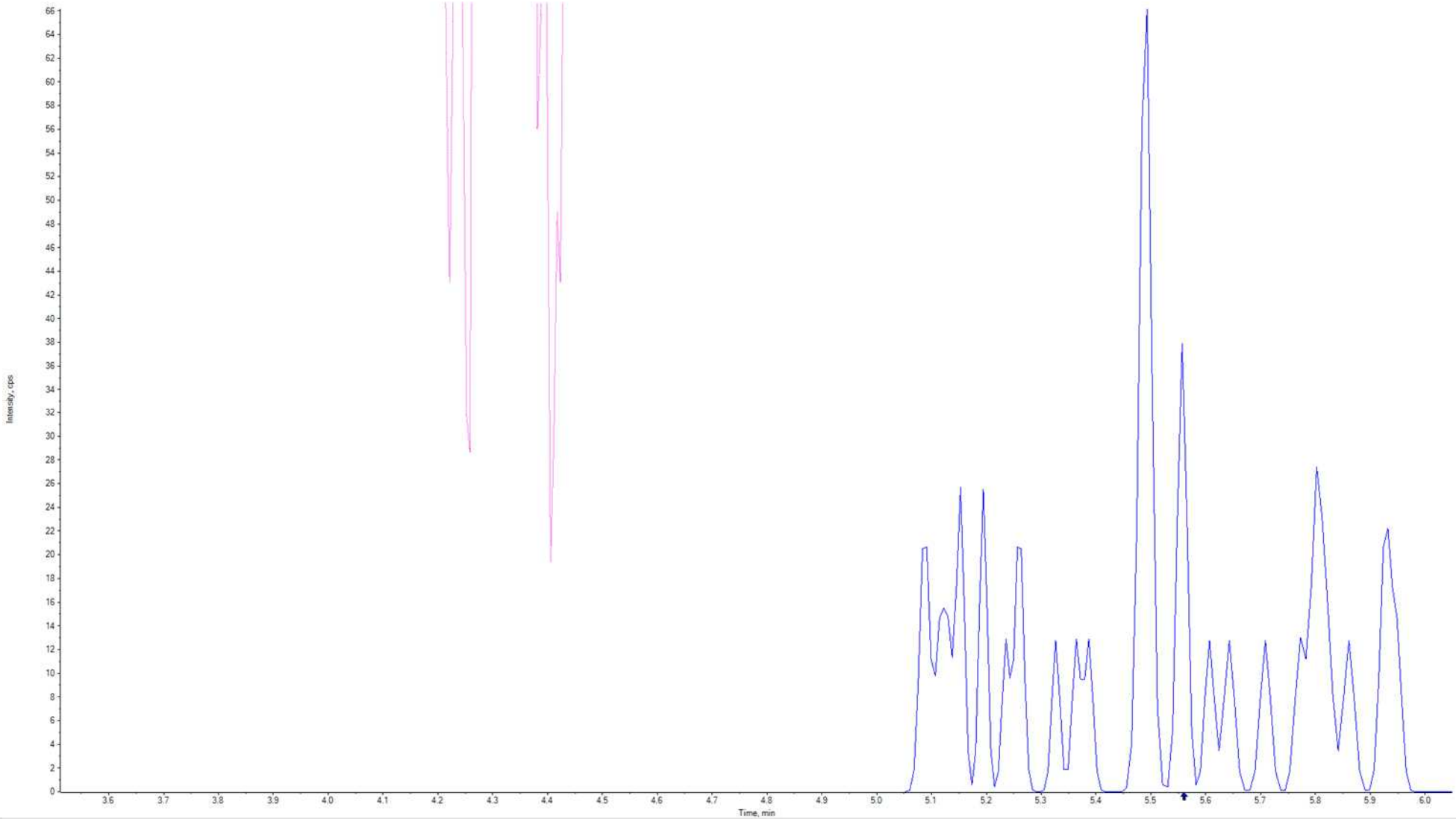
PFDS_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



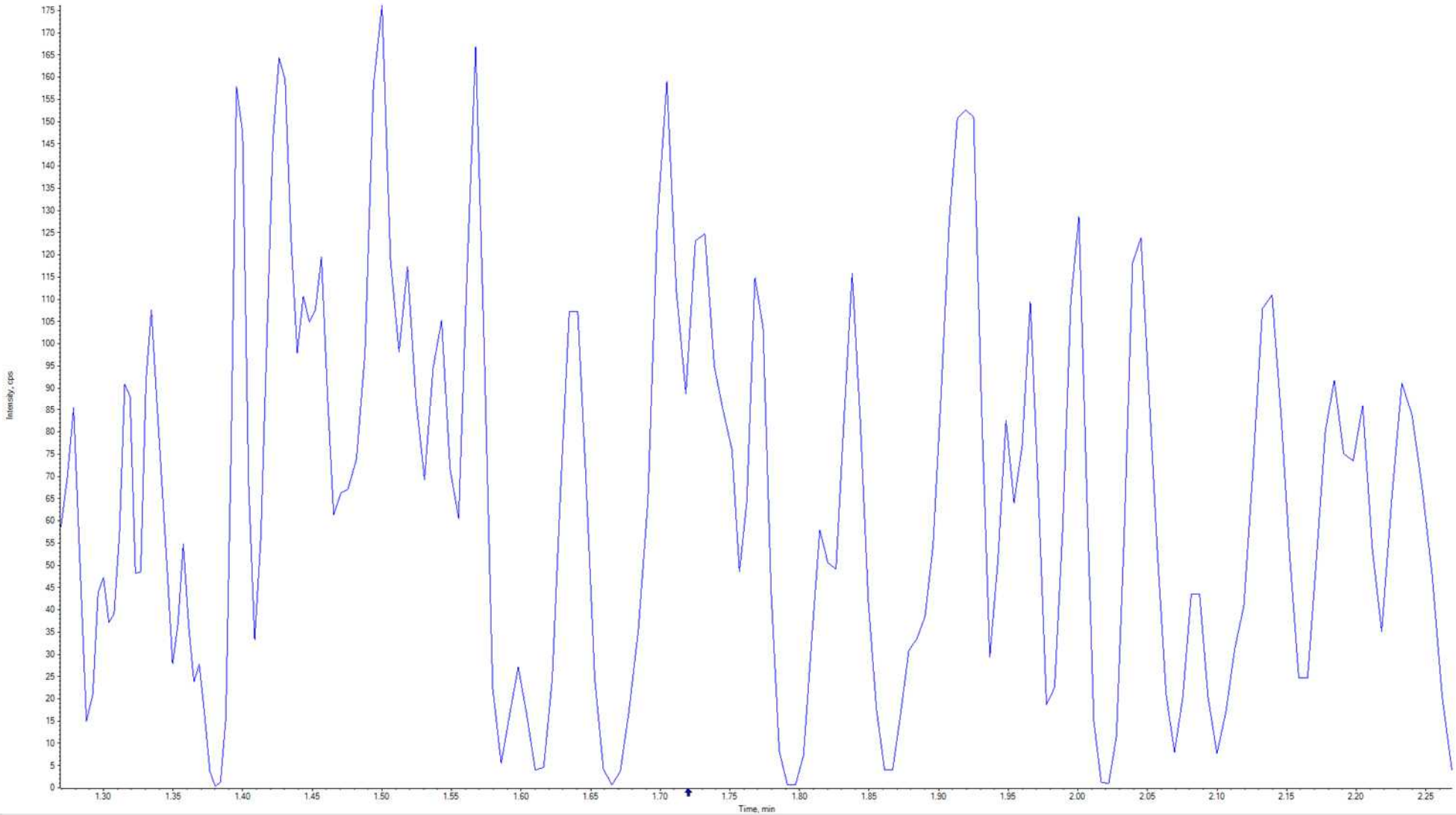
PFDoS
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



PFDoS_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

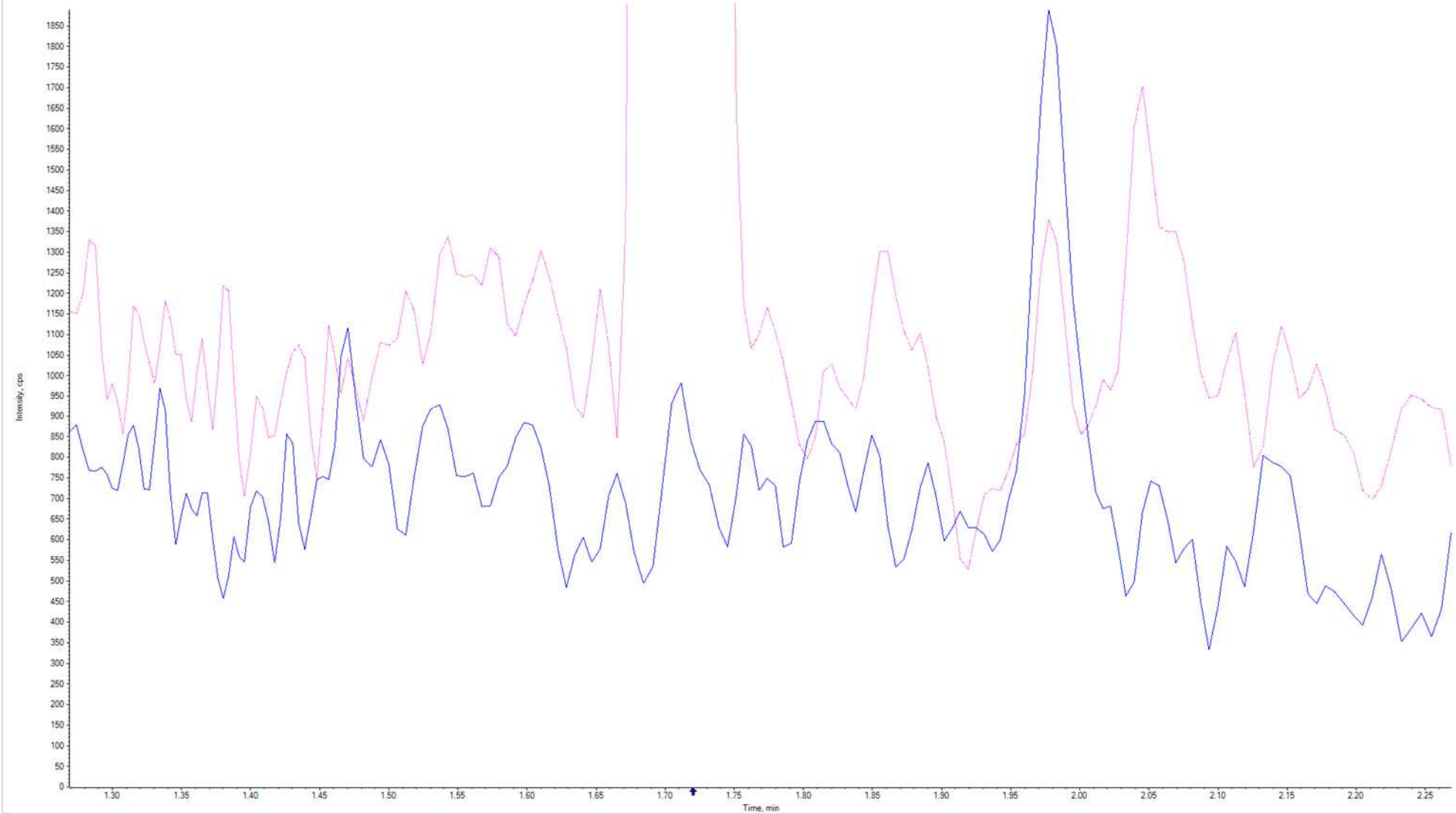


4:2FTS
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



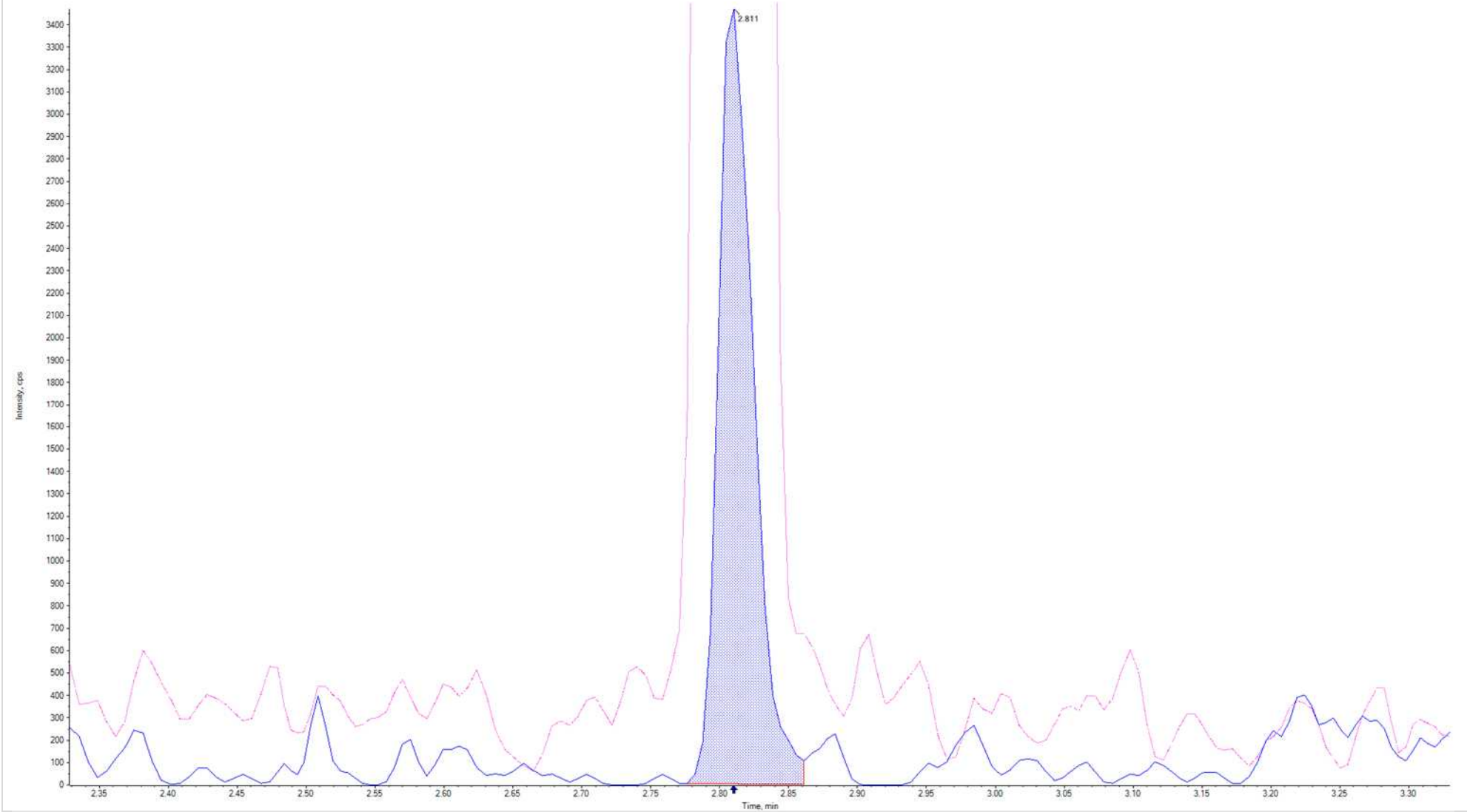
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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4:2FTS_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

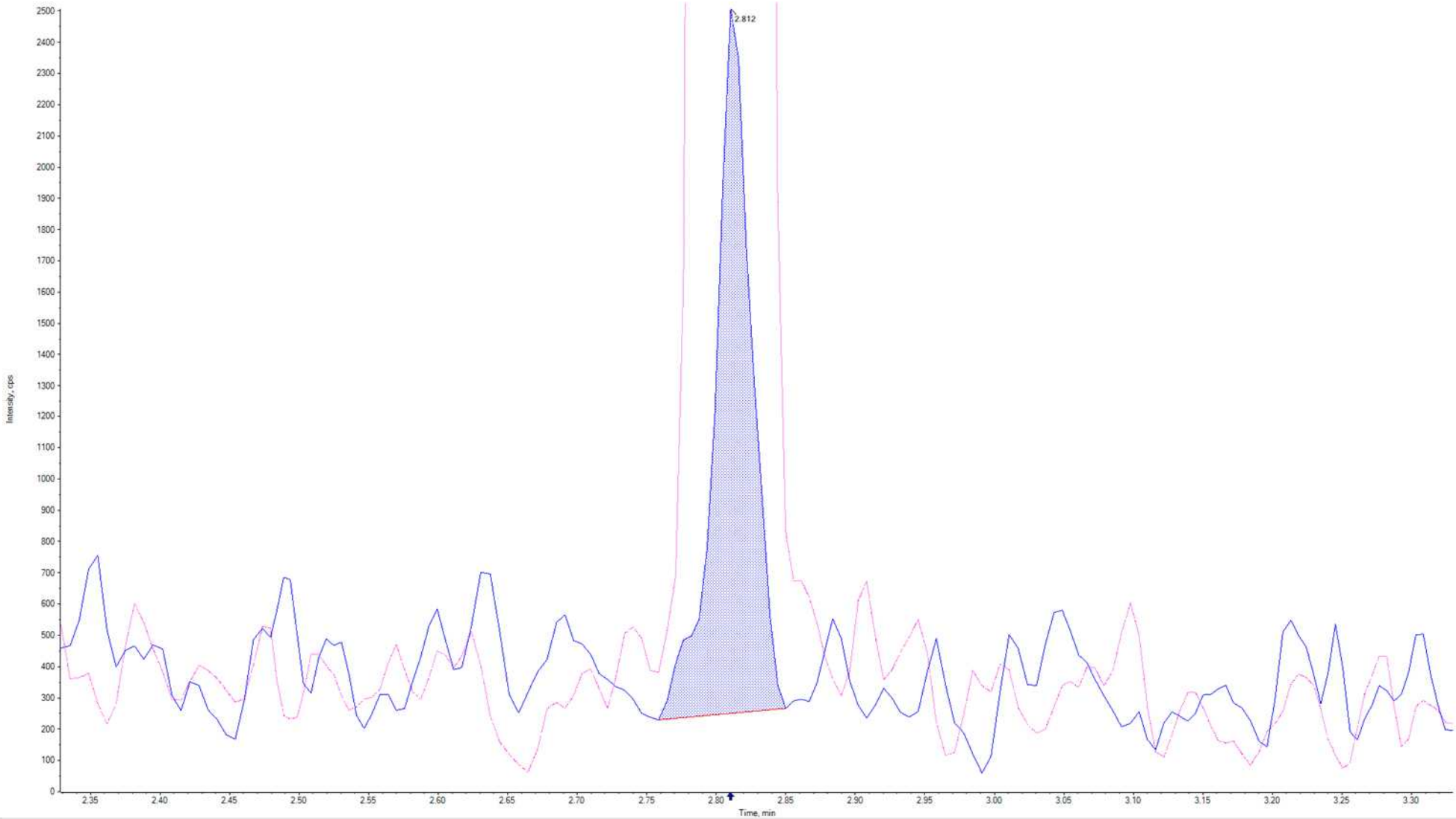


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Alpha Analytical LLC
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6:2FTS
Sample: L2512271-01R S/N:69.5 Points Across peak:17

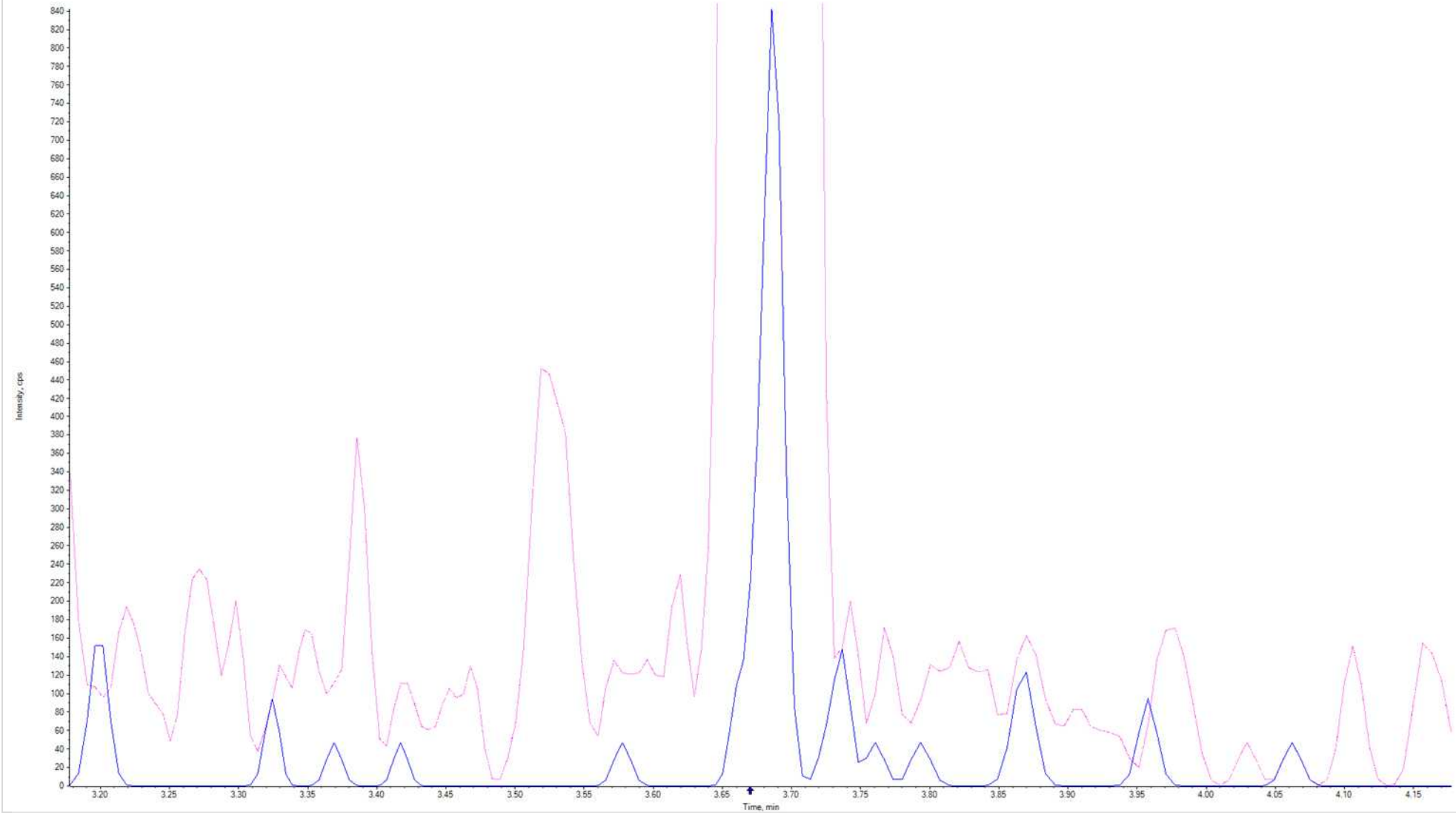


6:2FTS_2
Sample: L2512271-01R S/N:45.2 Points Across peak:17



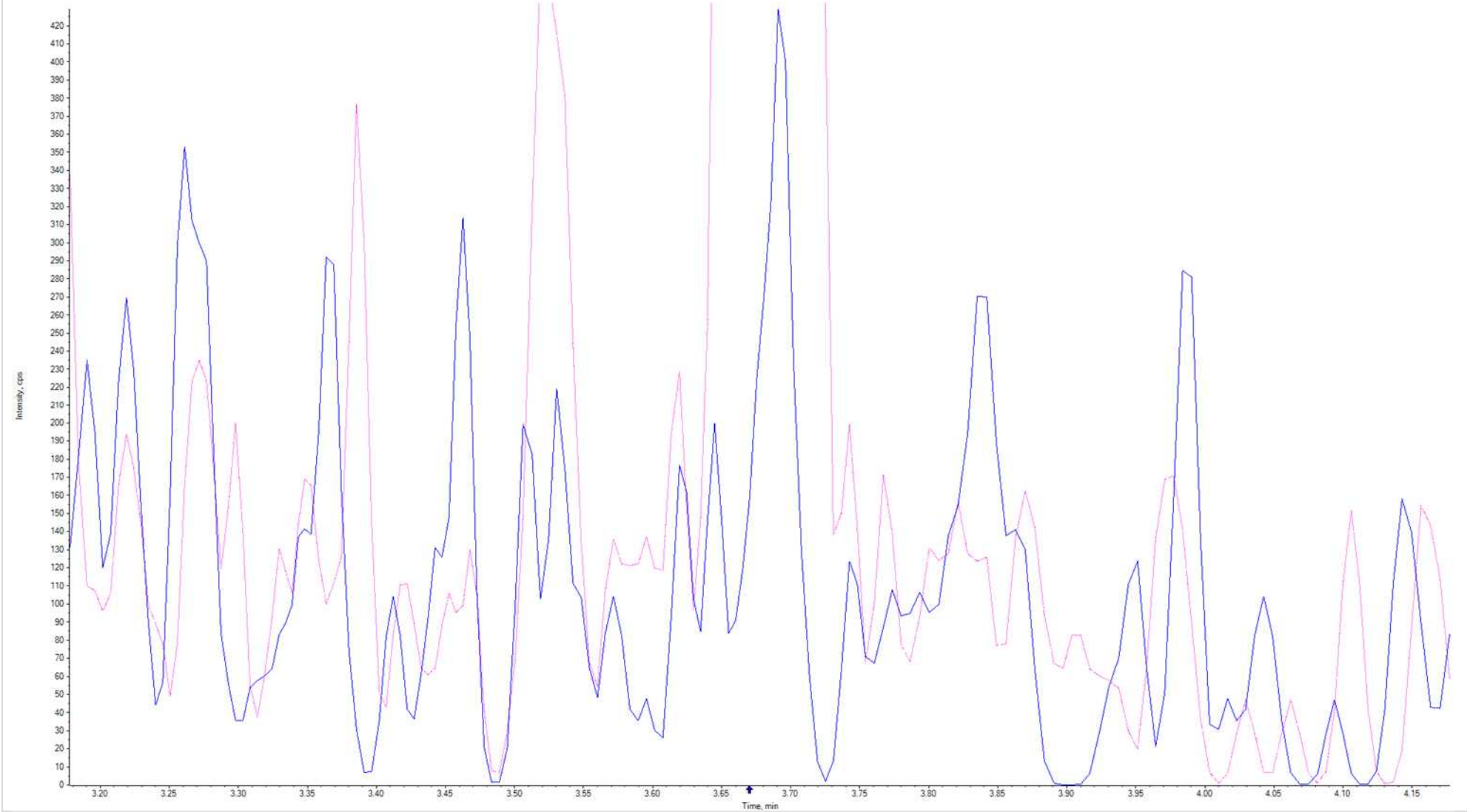
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8:2FTS
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

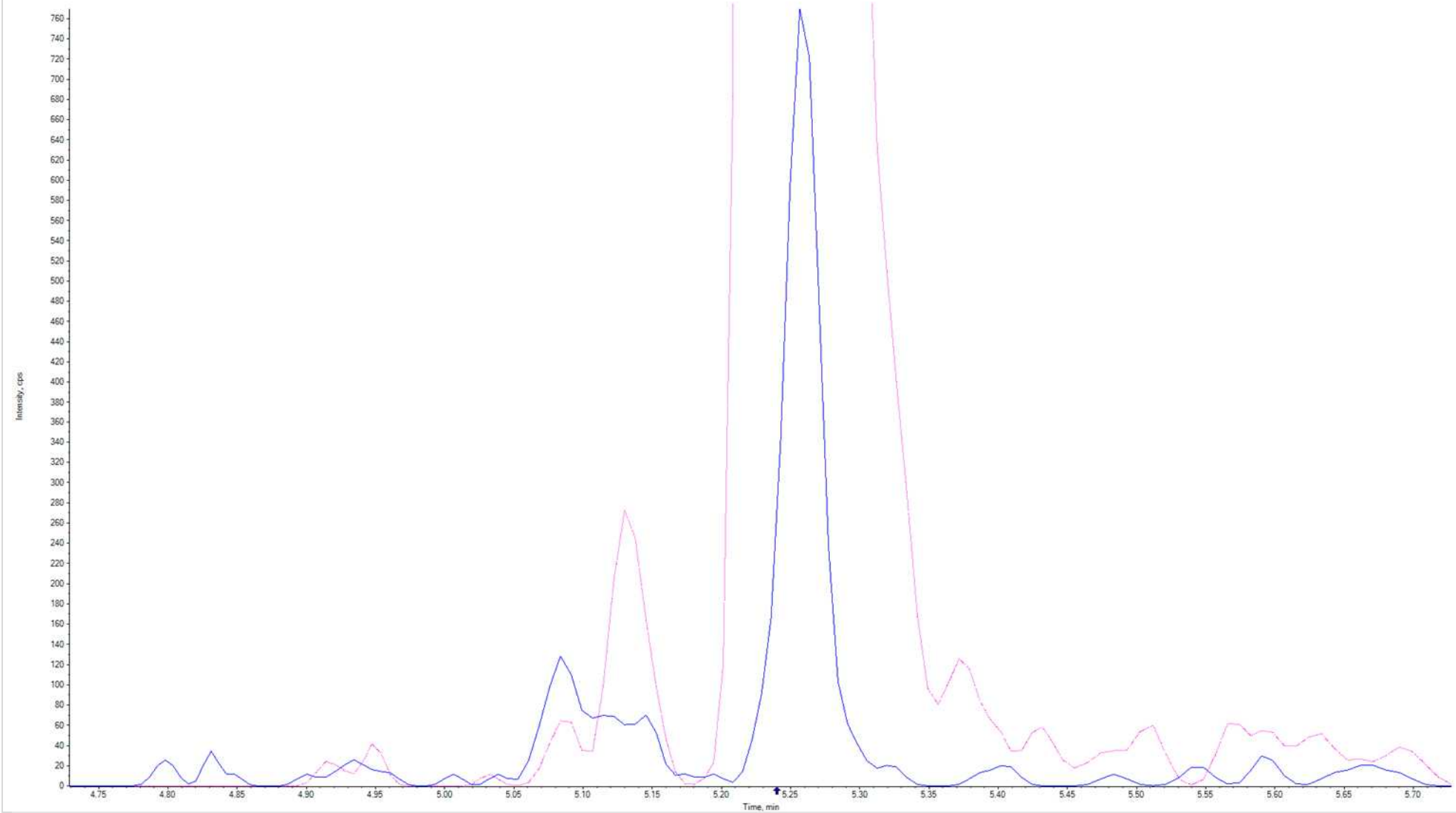


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8:2FTS_2
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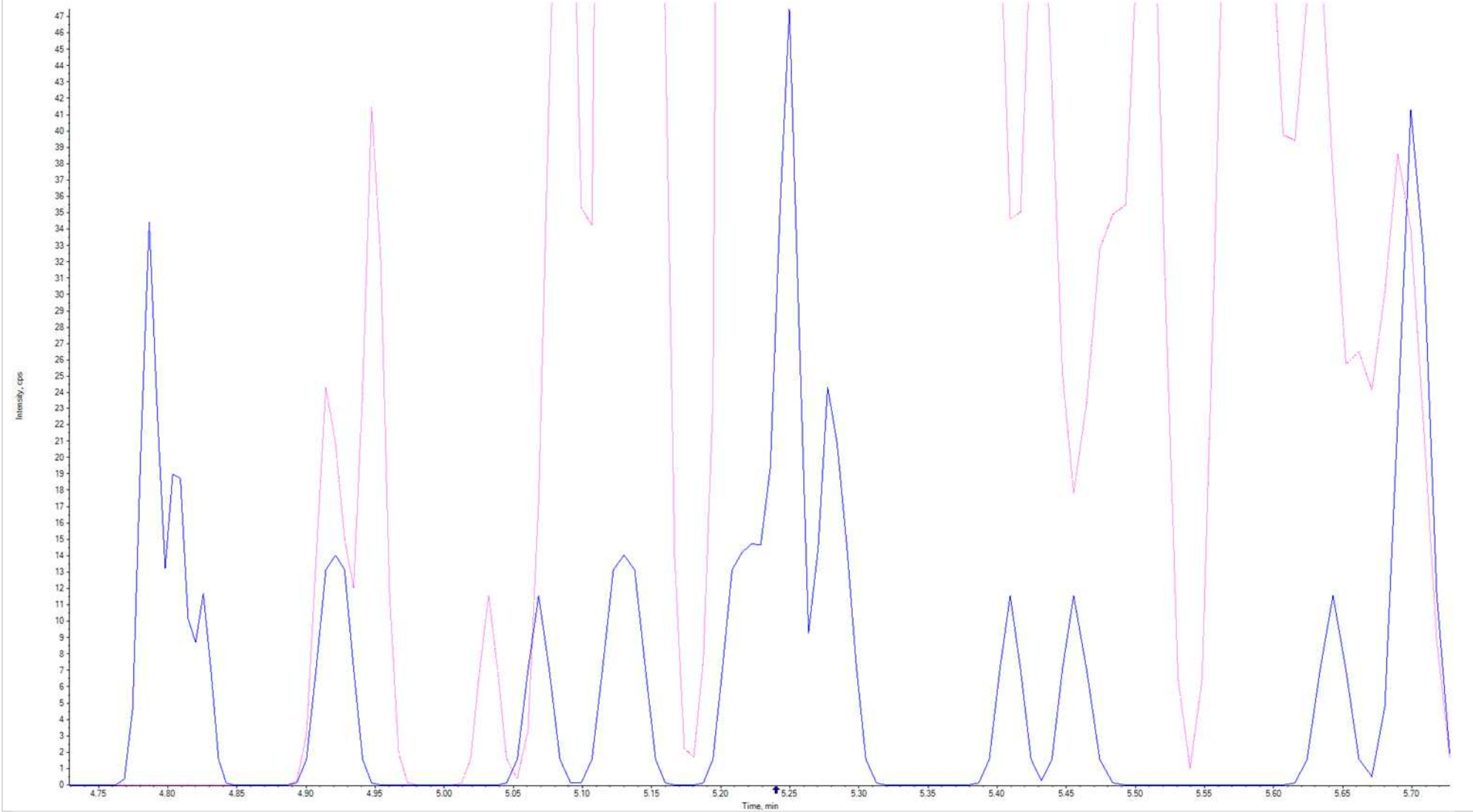


PFOSA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



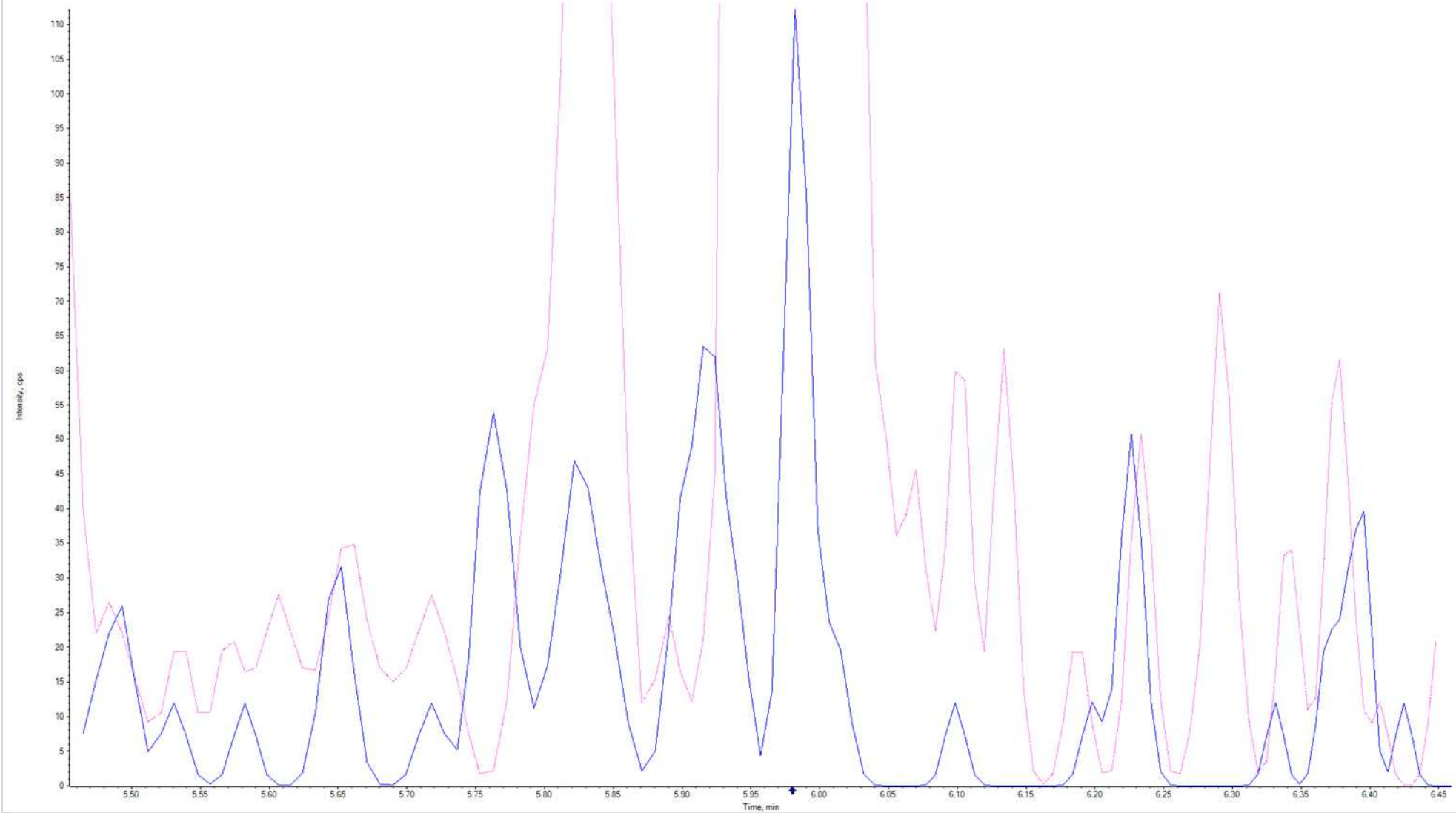
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PFOSA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

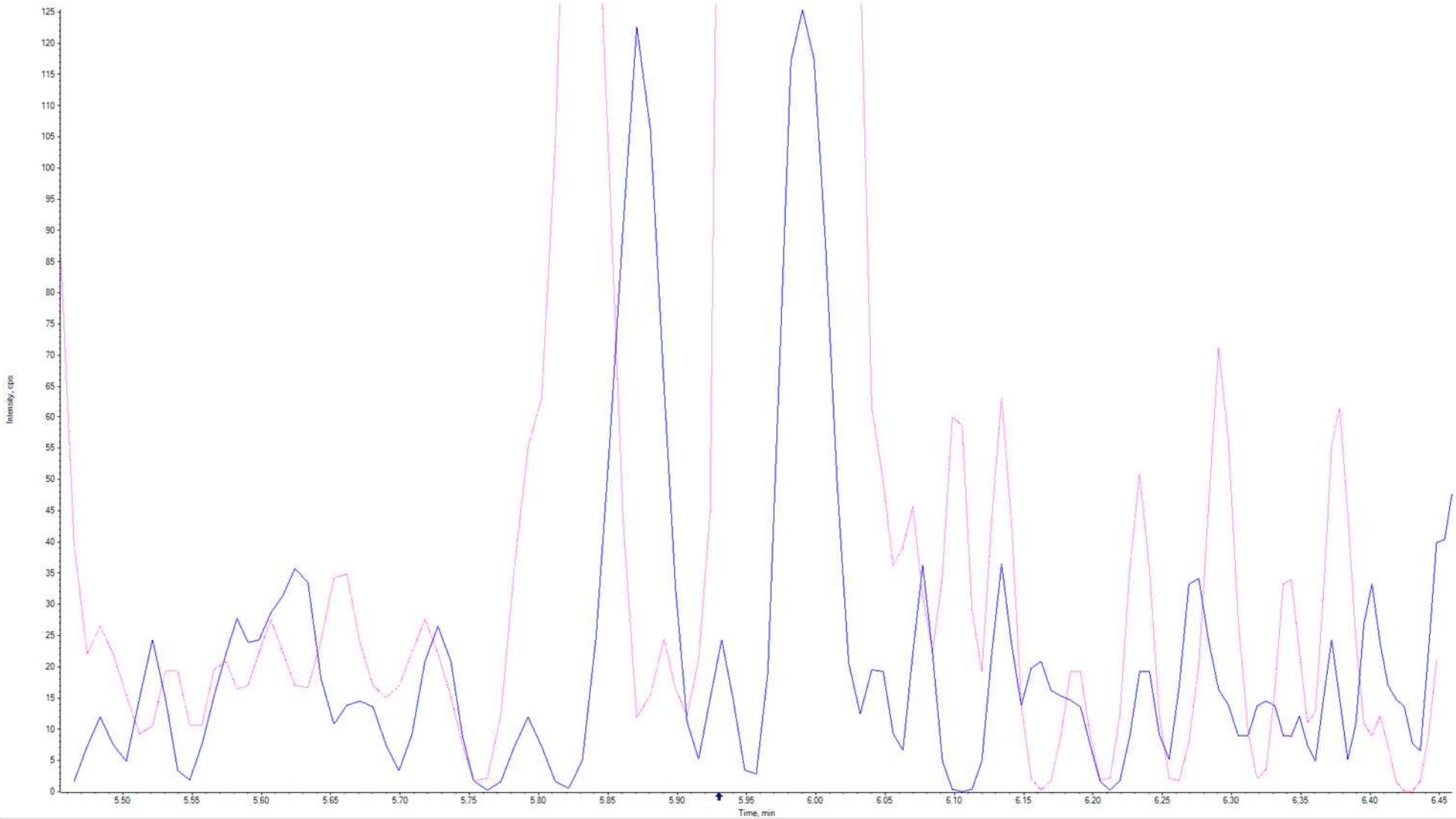


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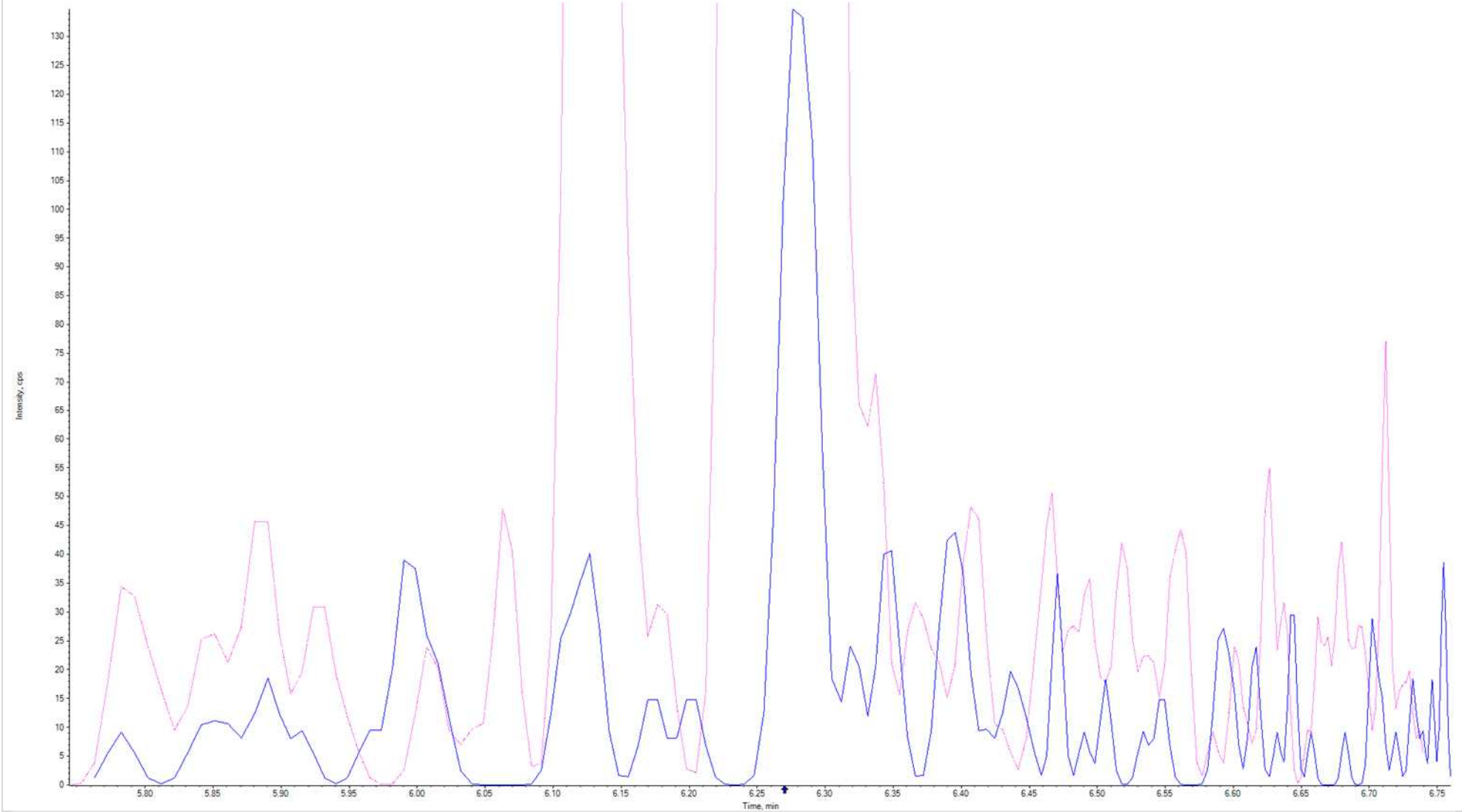
NMeFOSA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



NMeFOSA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

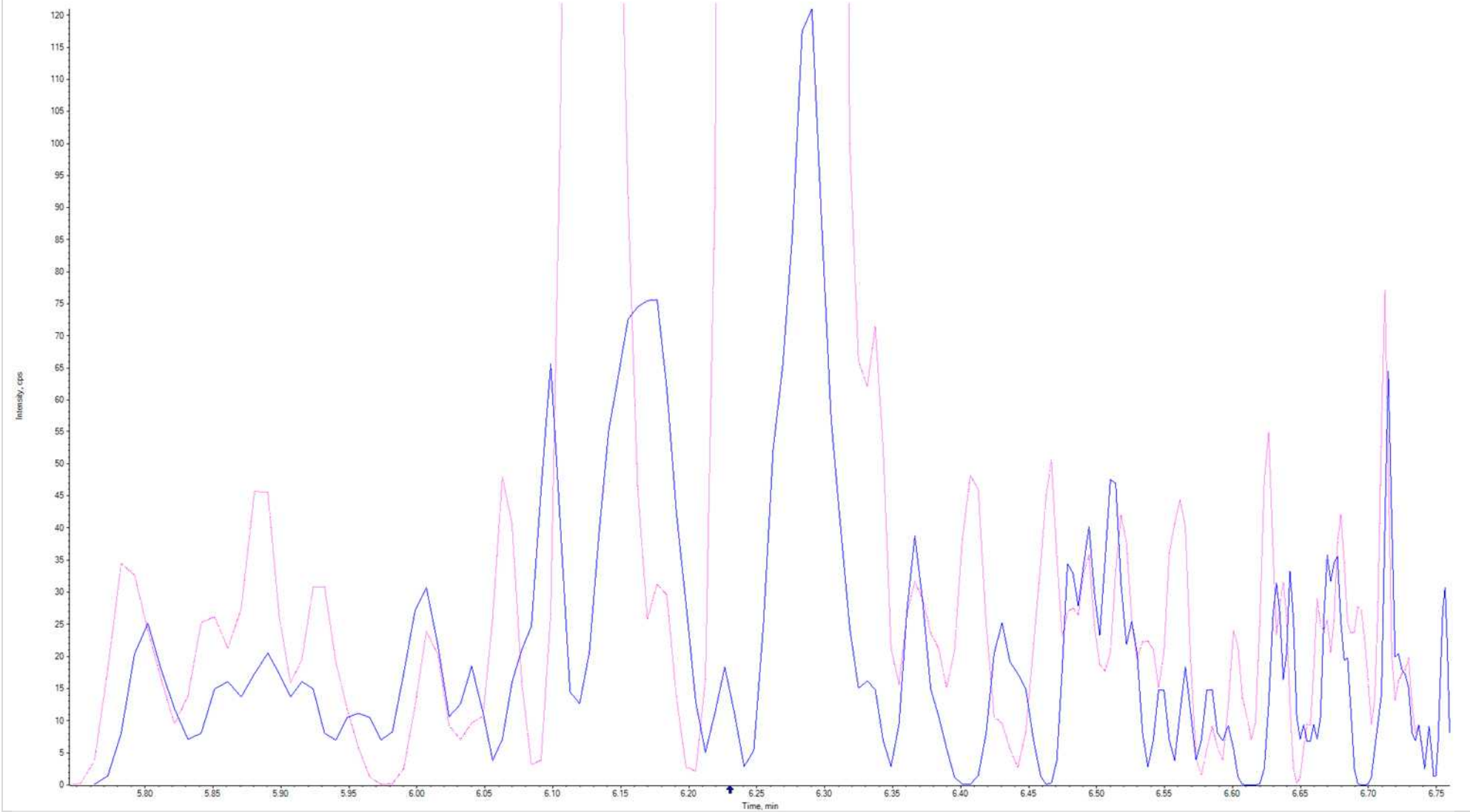


NEtFOSA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

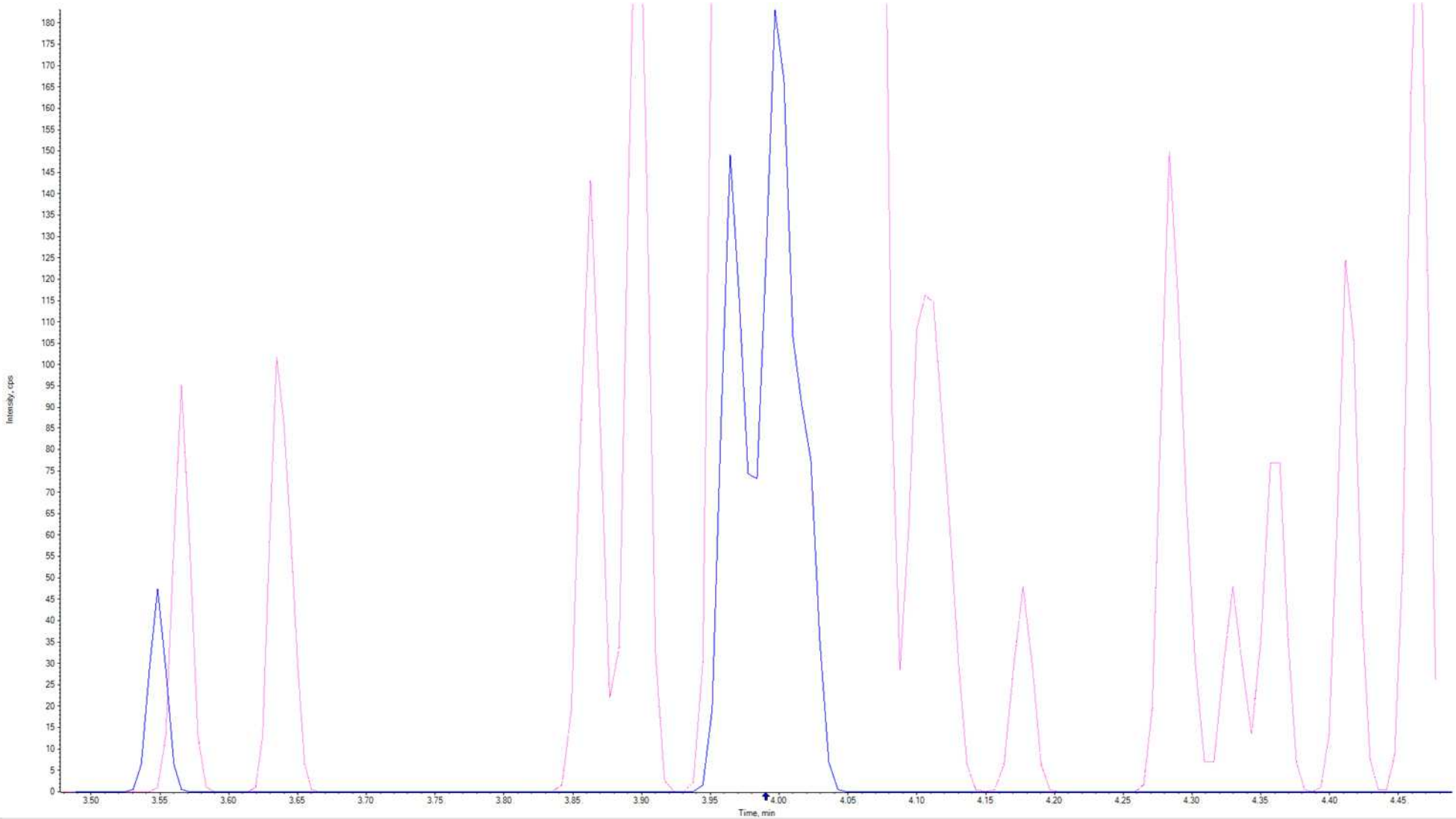


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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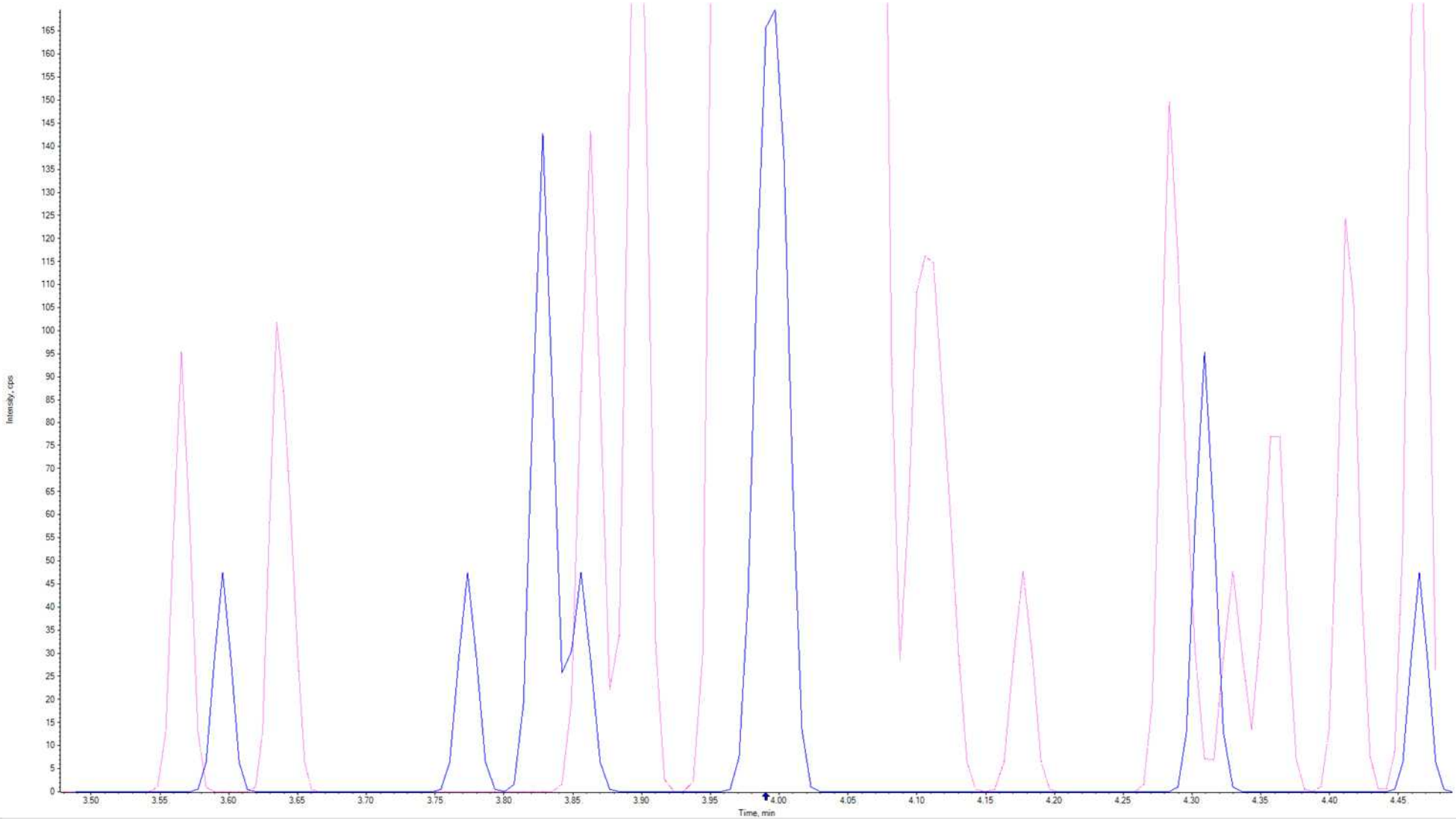
NEtFOSA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



NMeFOSAA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

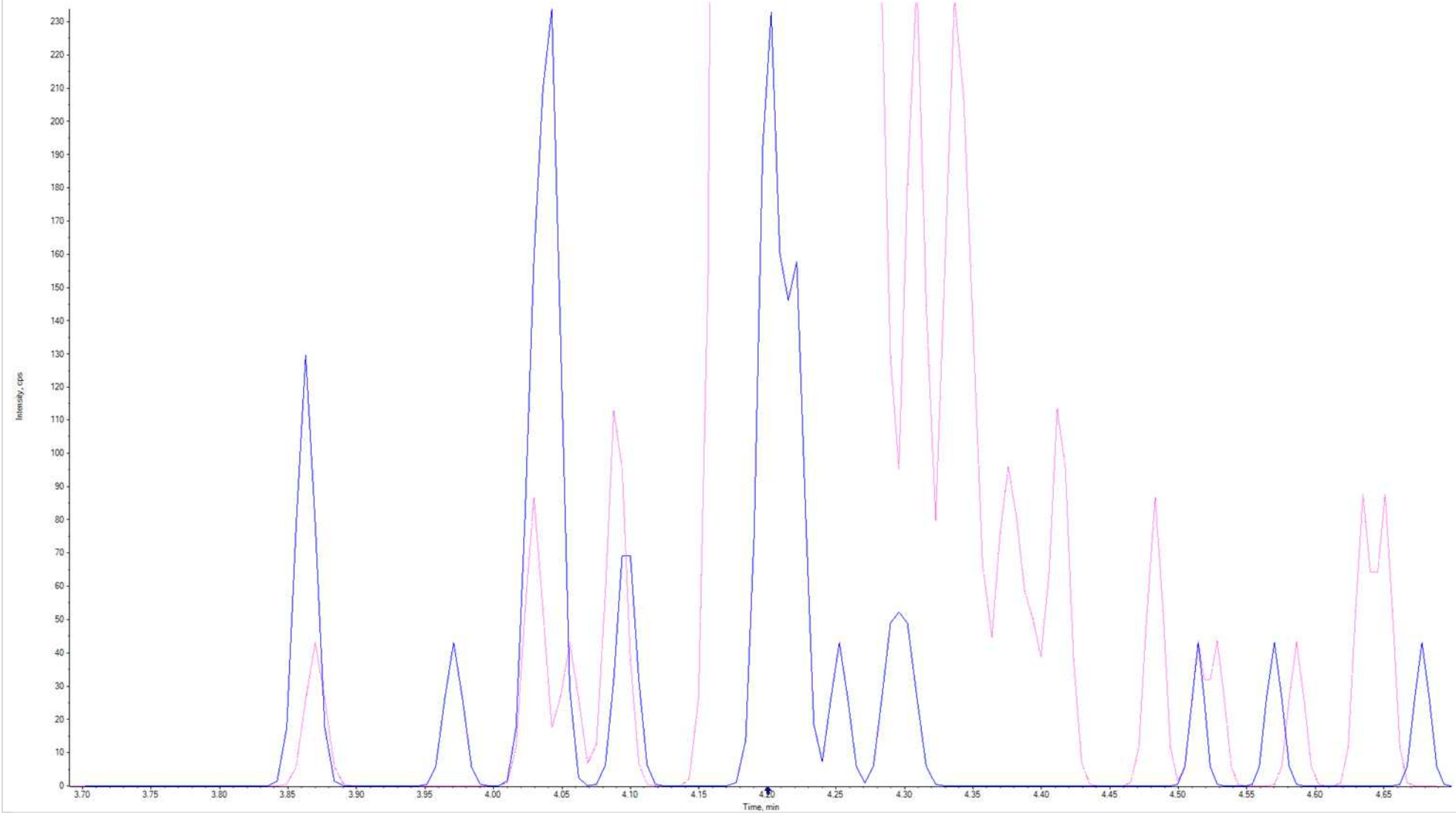


NMeFOSAA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



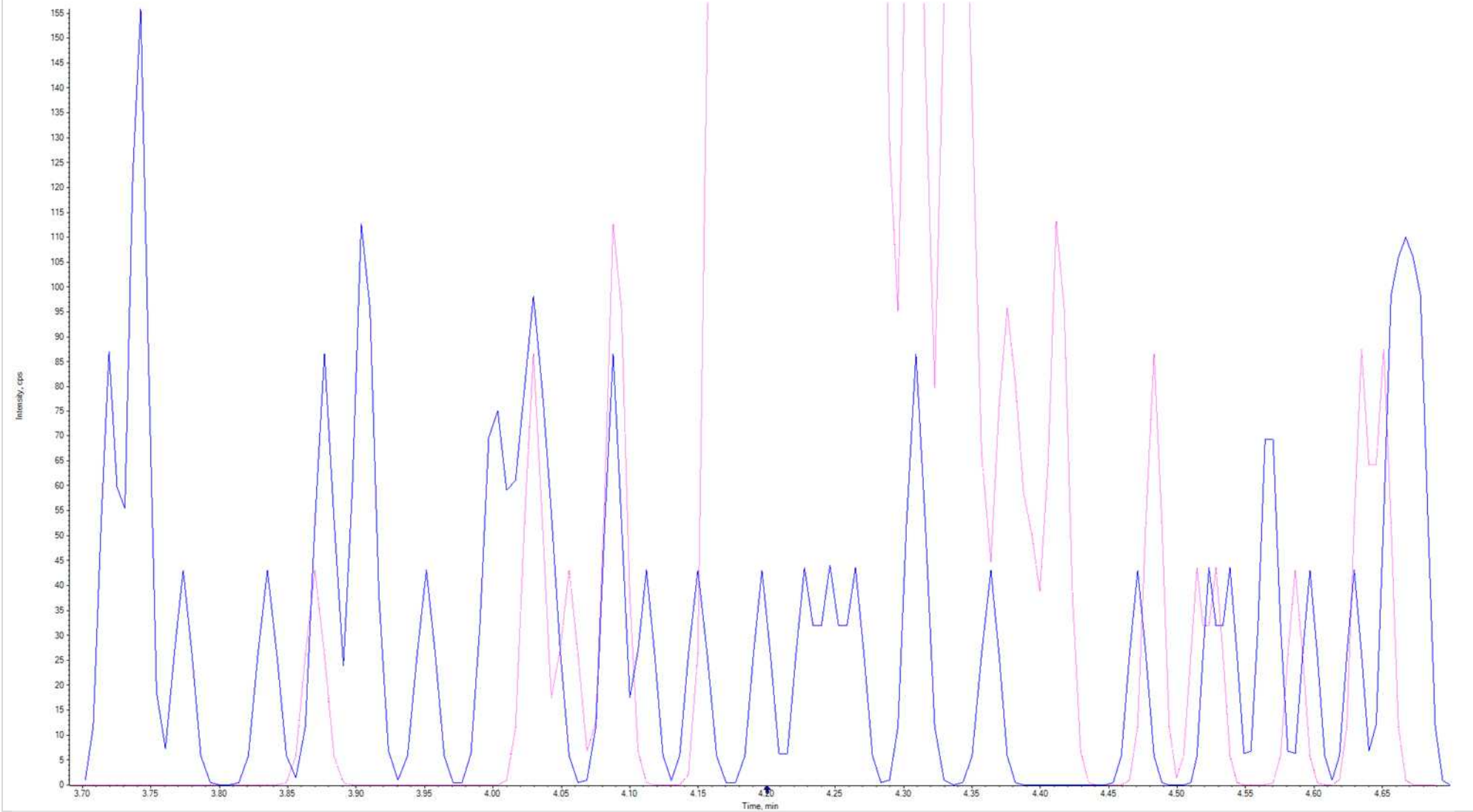
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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NEtFOSAA
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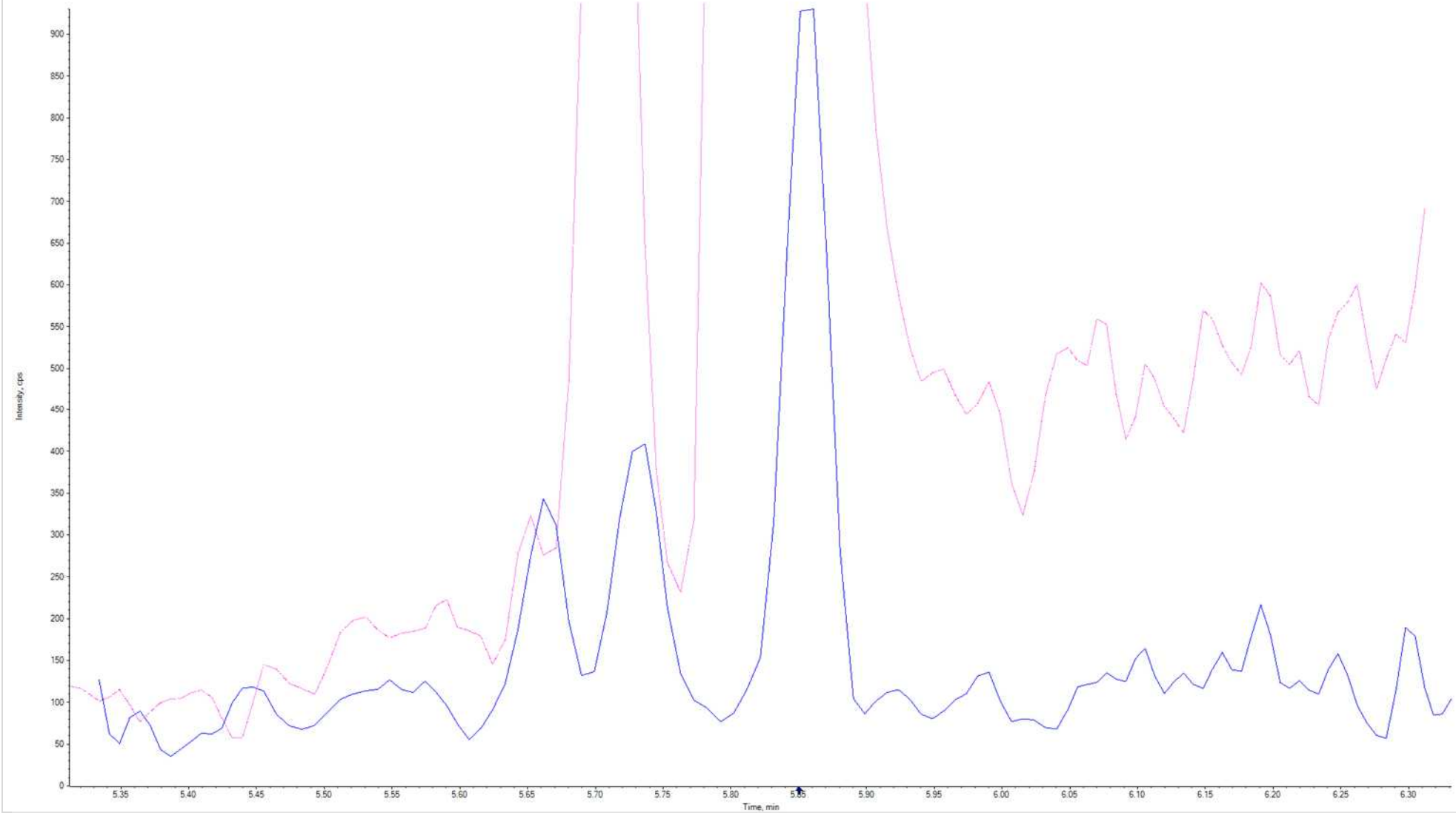


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Generated: 3/11/2025 12:26:59 PM

NEtFOSAA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

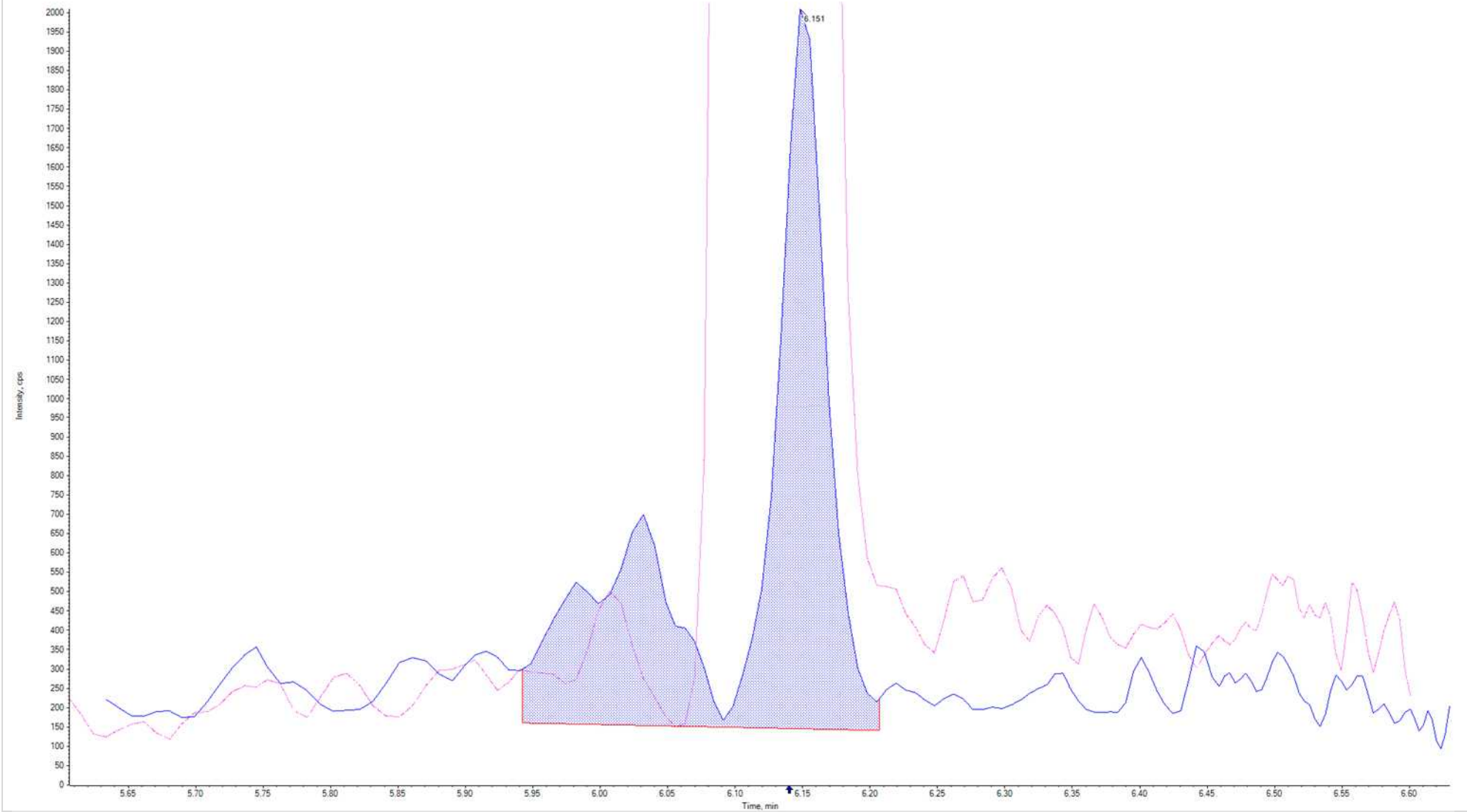


NMeFOSE
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

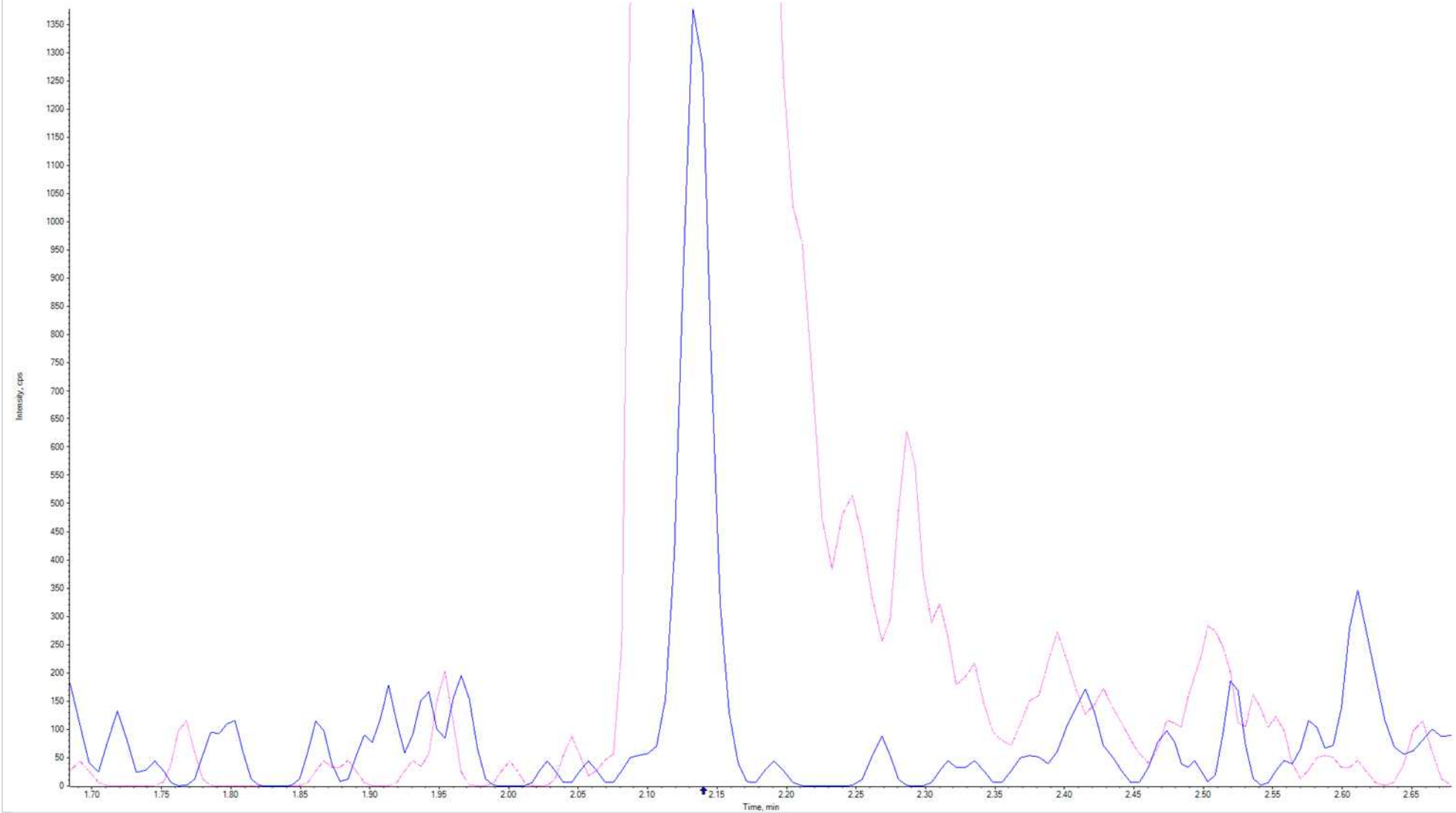


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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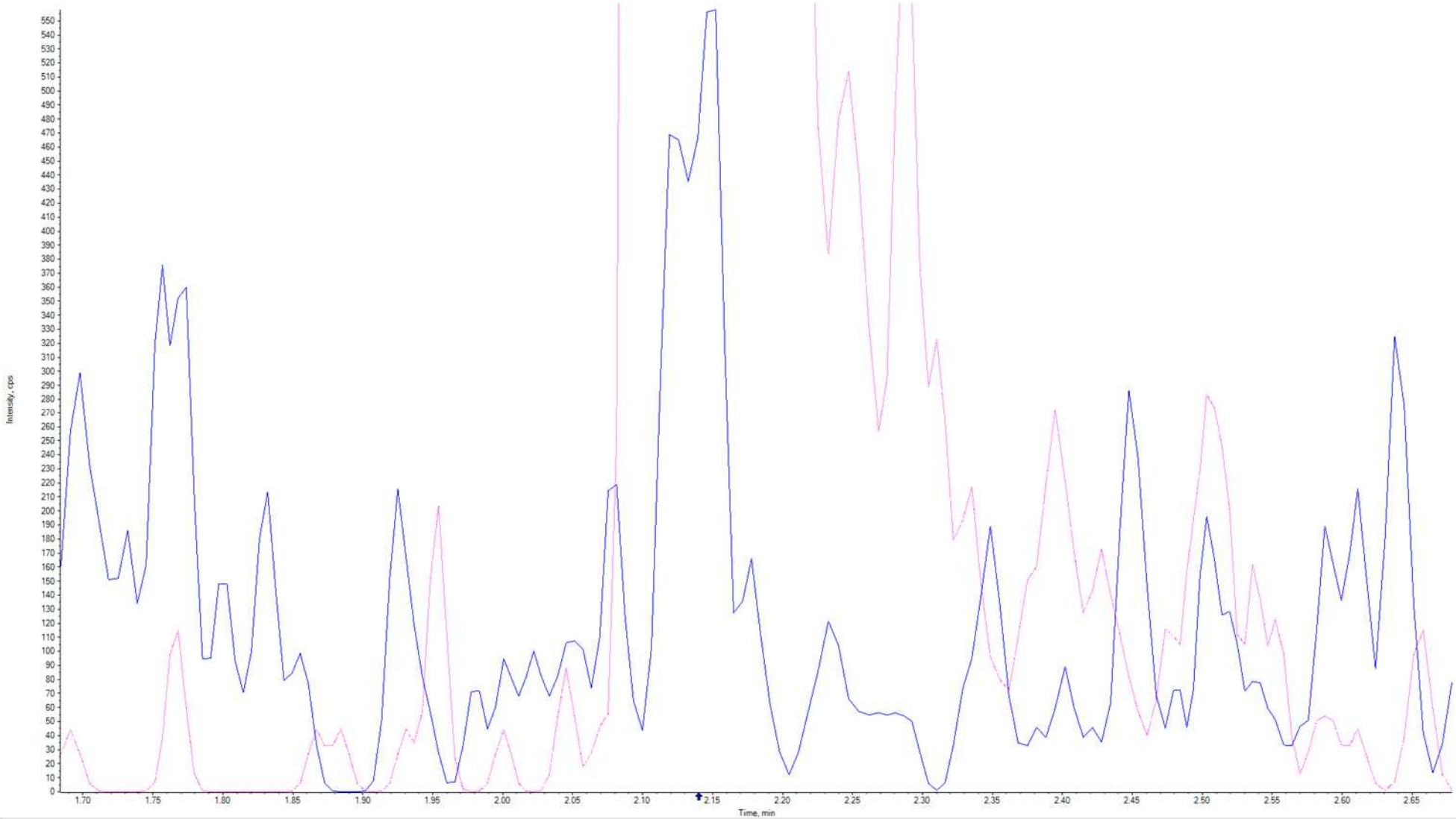
NEtFOSE
Sample: L2512271-01R S/N:55.3 Points Across peak:37



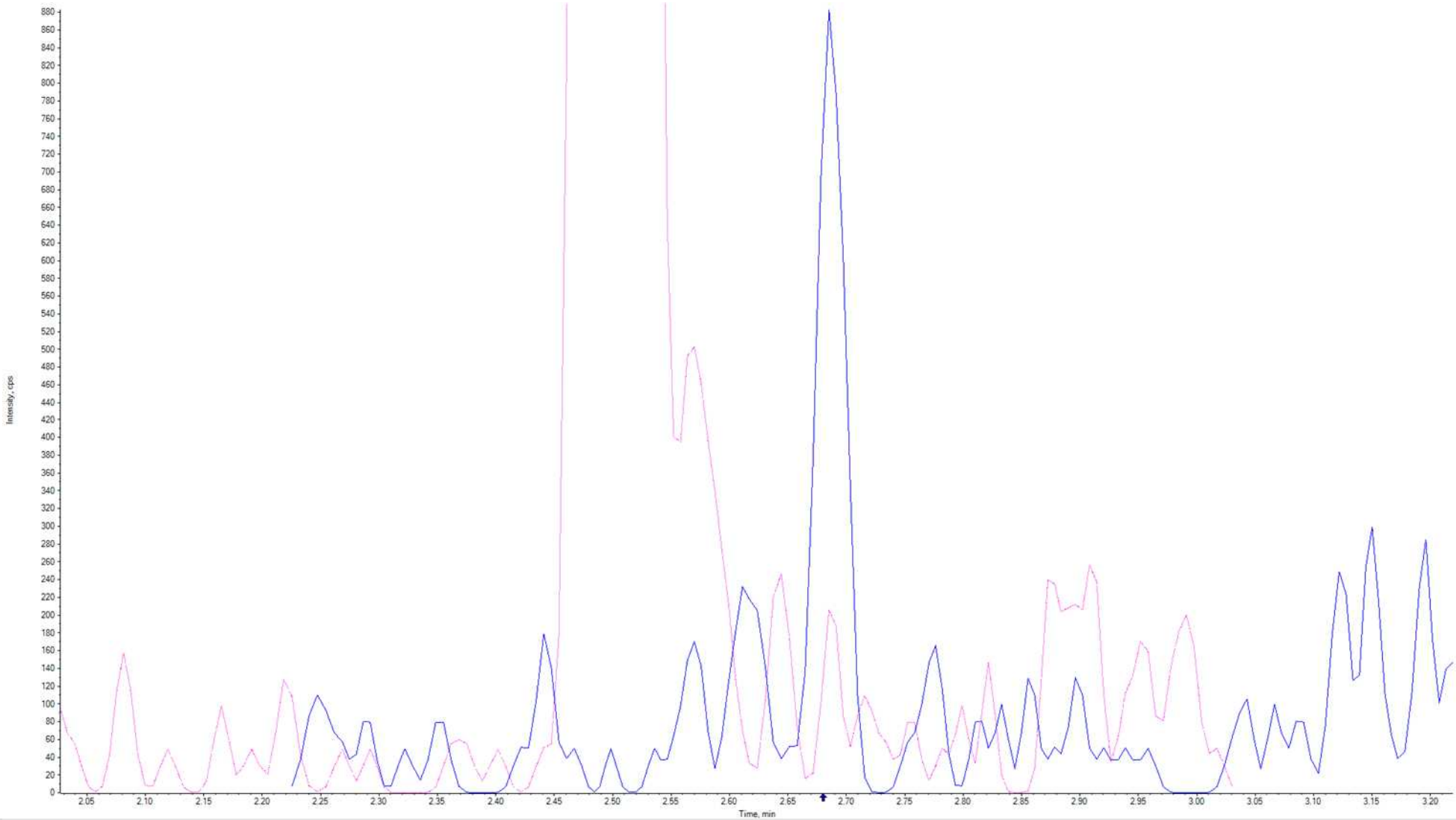
HFPO-DA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



HFPO-DA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

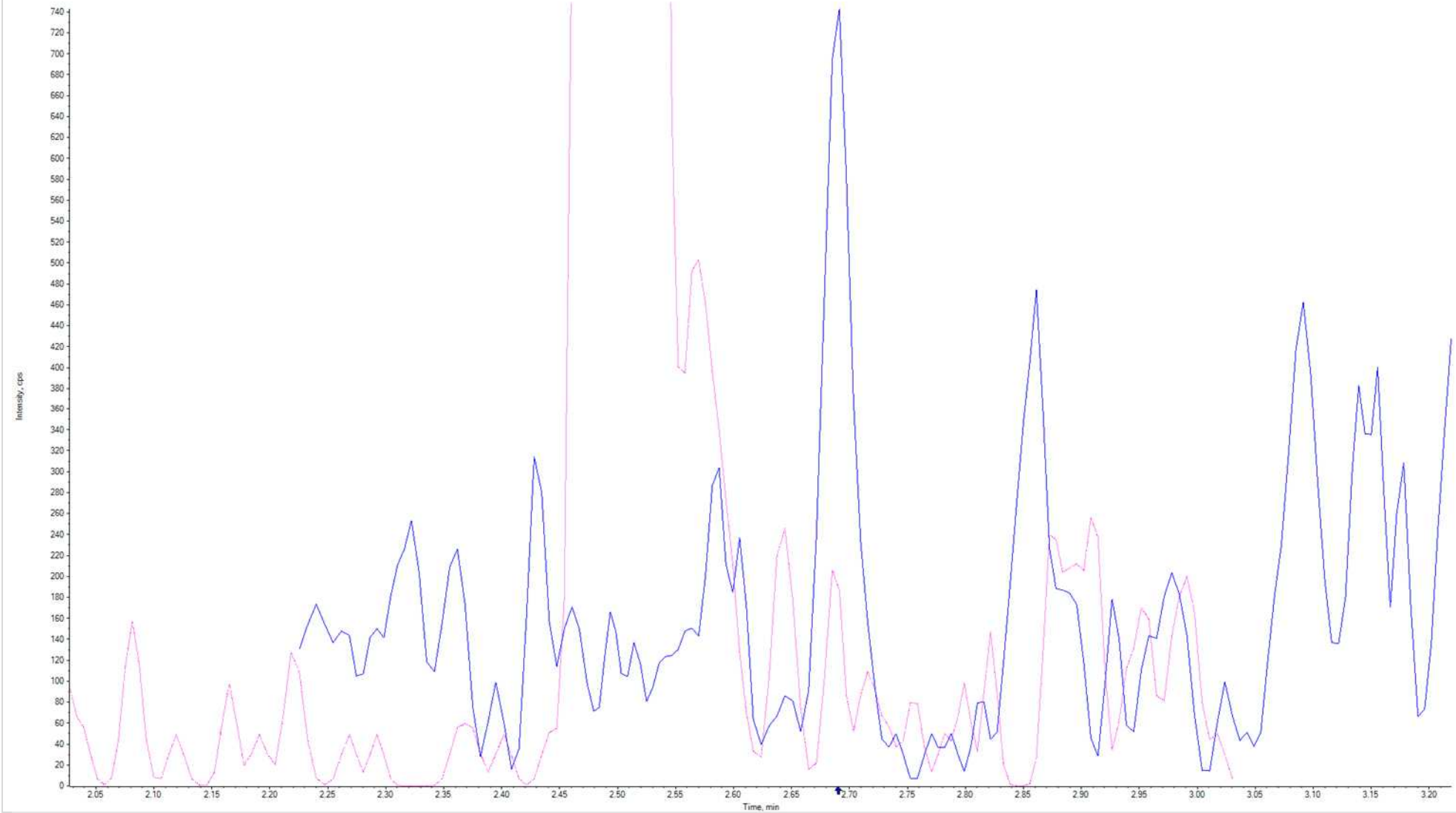


ADONA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



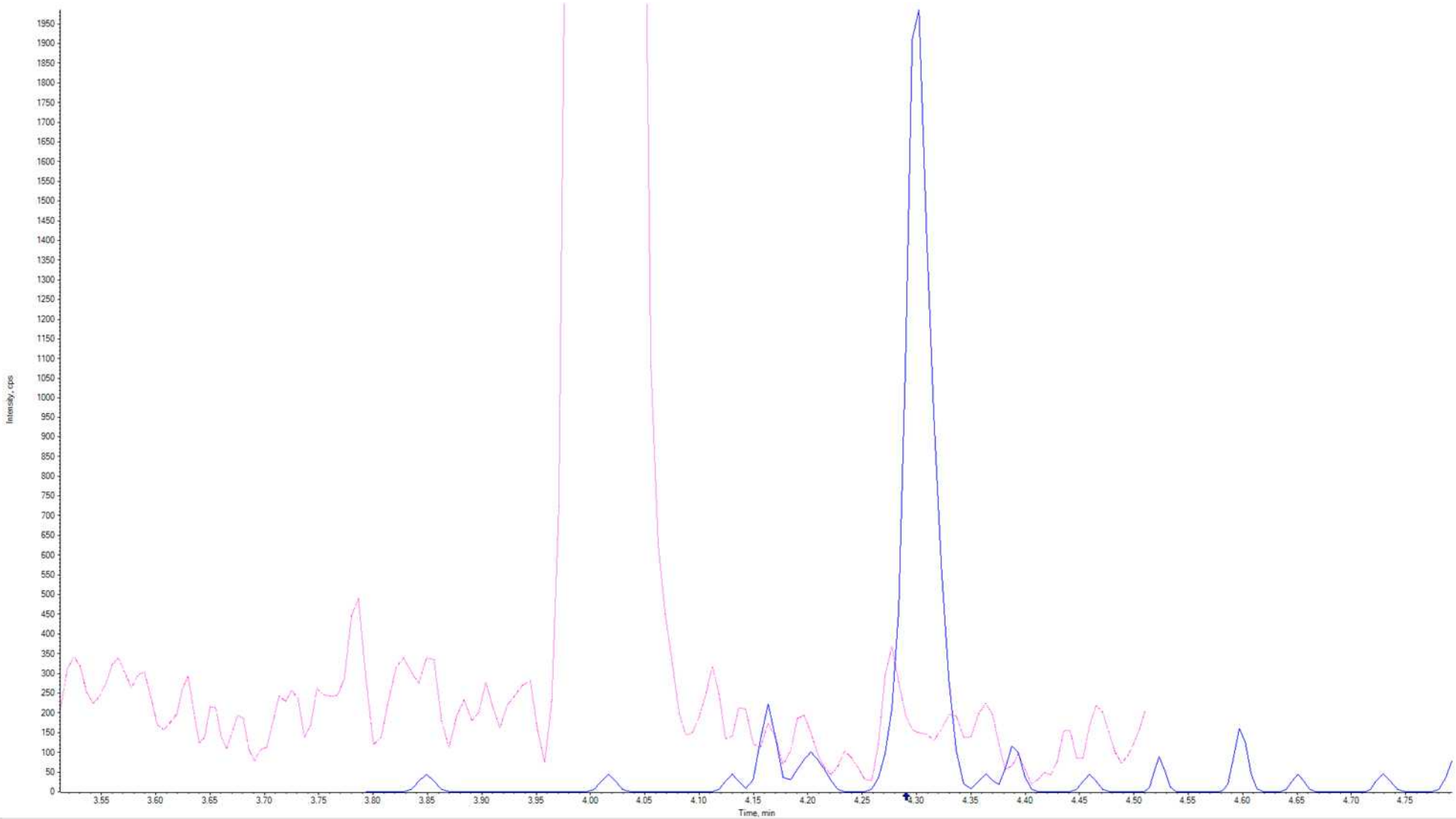
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ADONA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

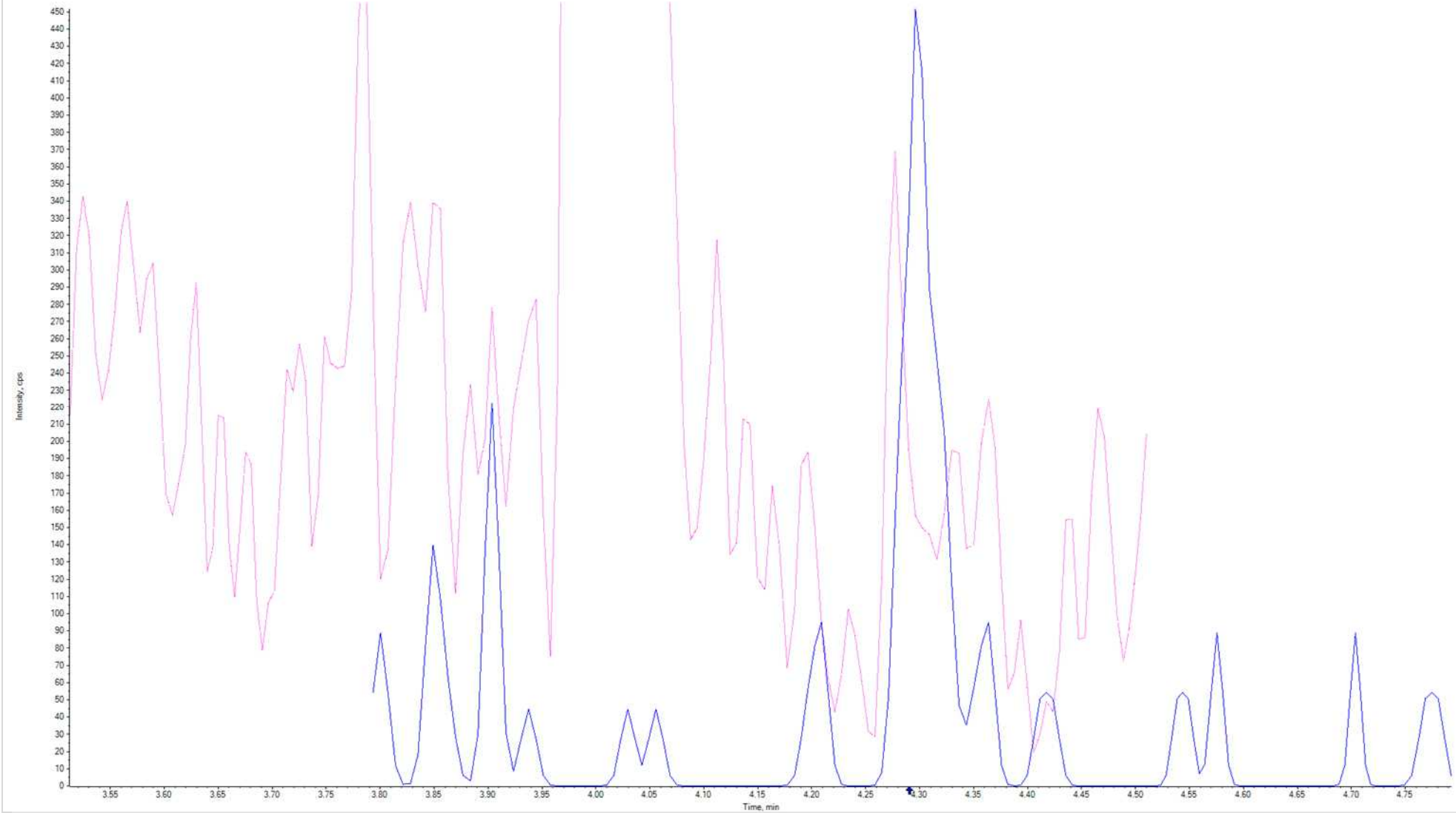


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9Cl-PF3ONS
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

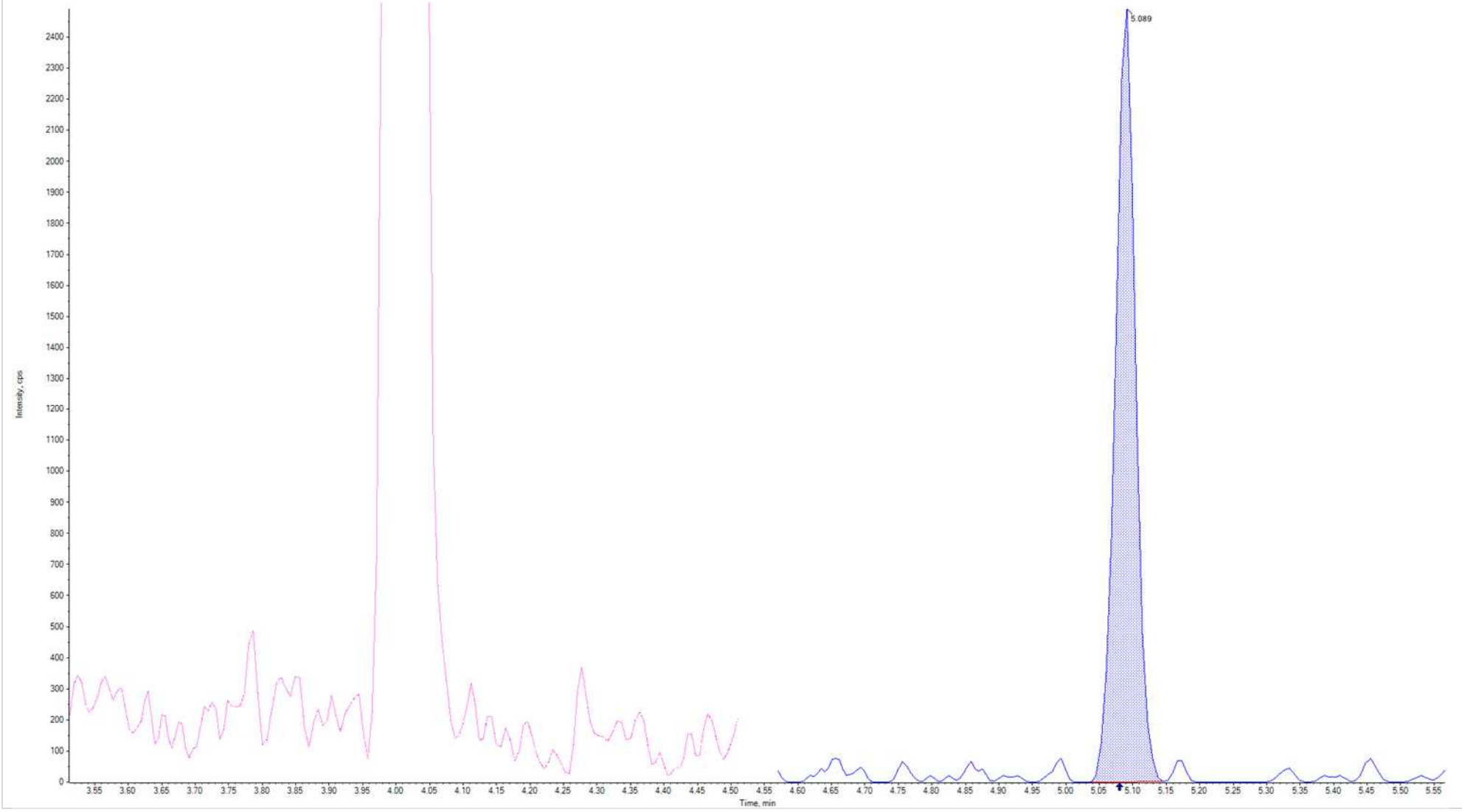


9Cl-PF3ONS_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



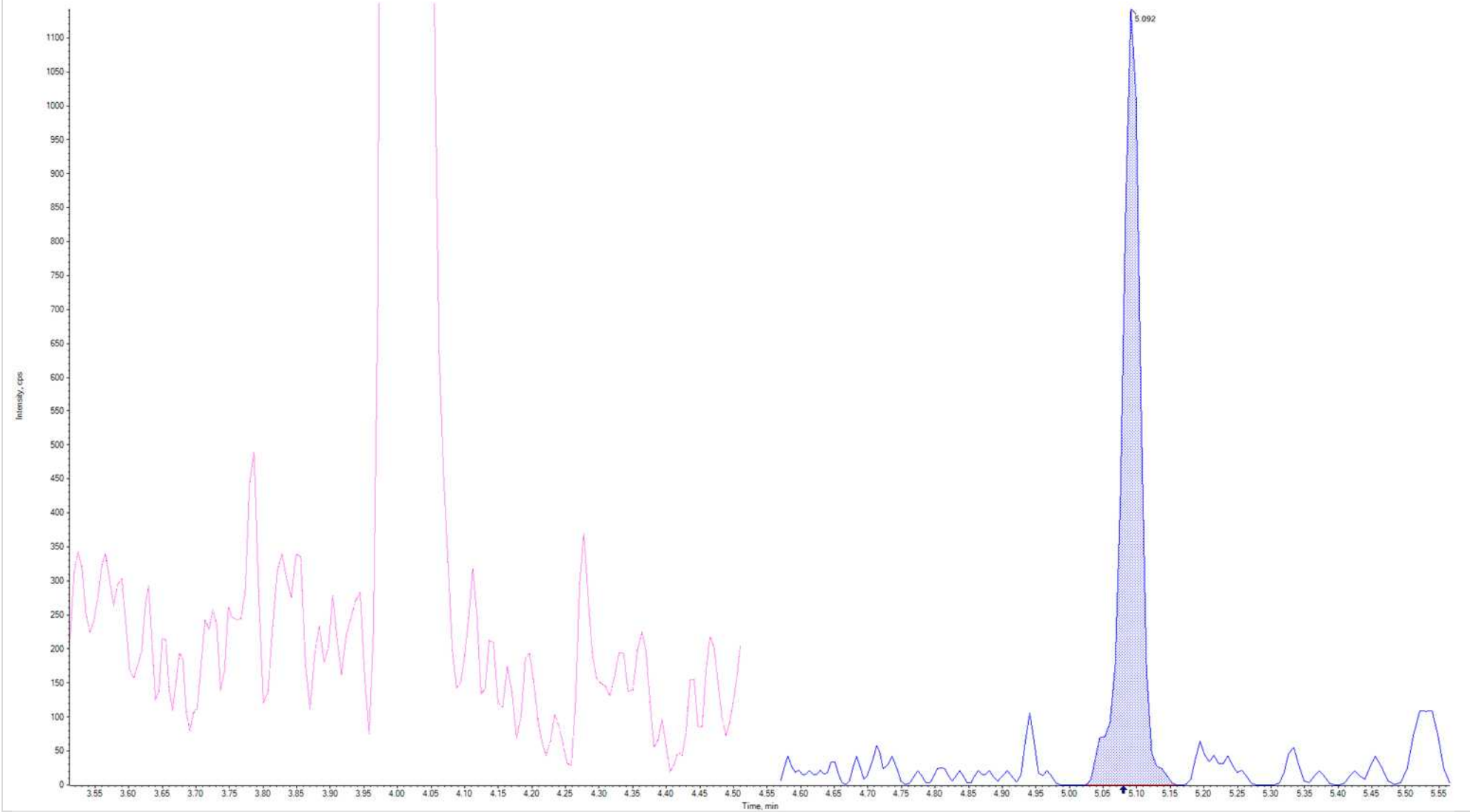
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11Cl-PF3OUdS
Sample: L2512271-01R S/N:118.5 Points Across peak:16

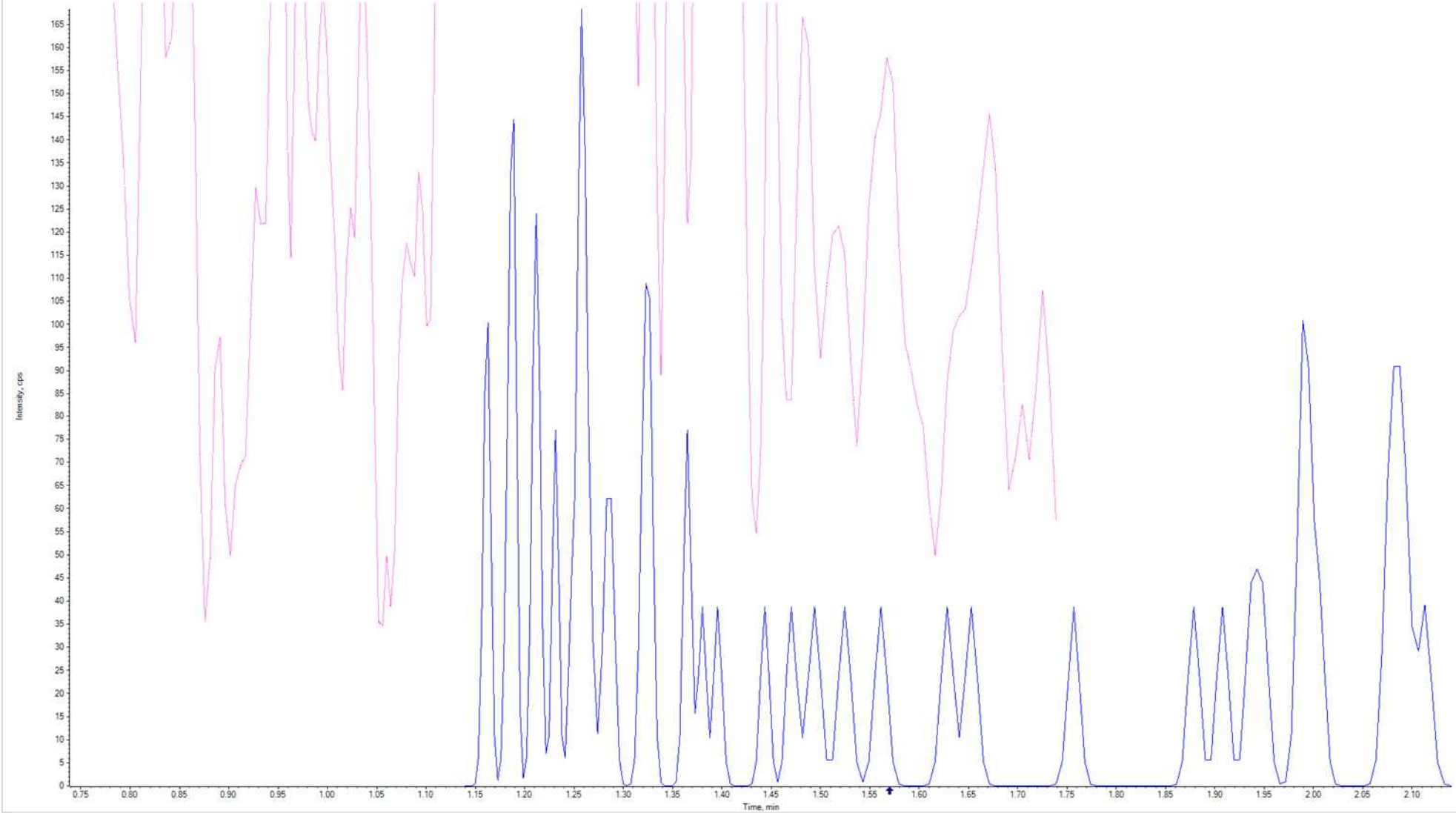


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11Cl-PF3OUdS_2
Sample: L2512271-01R S/N:54.4 Points Across peak:22

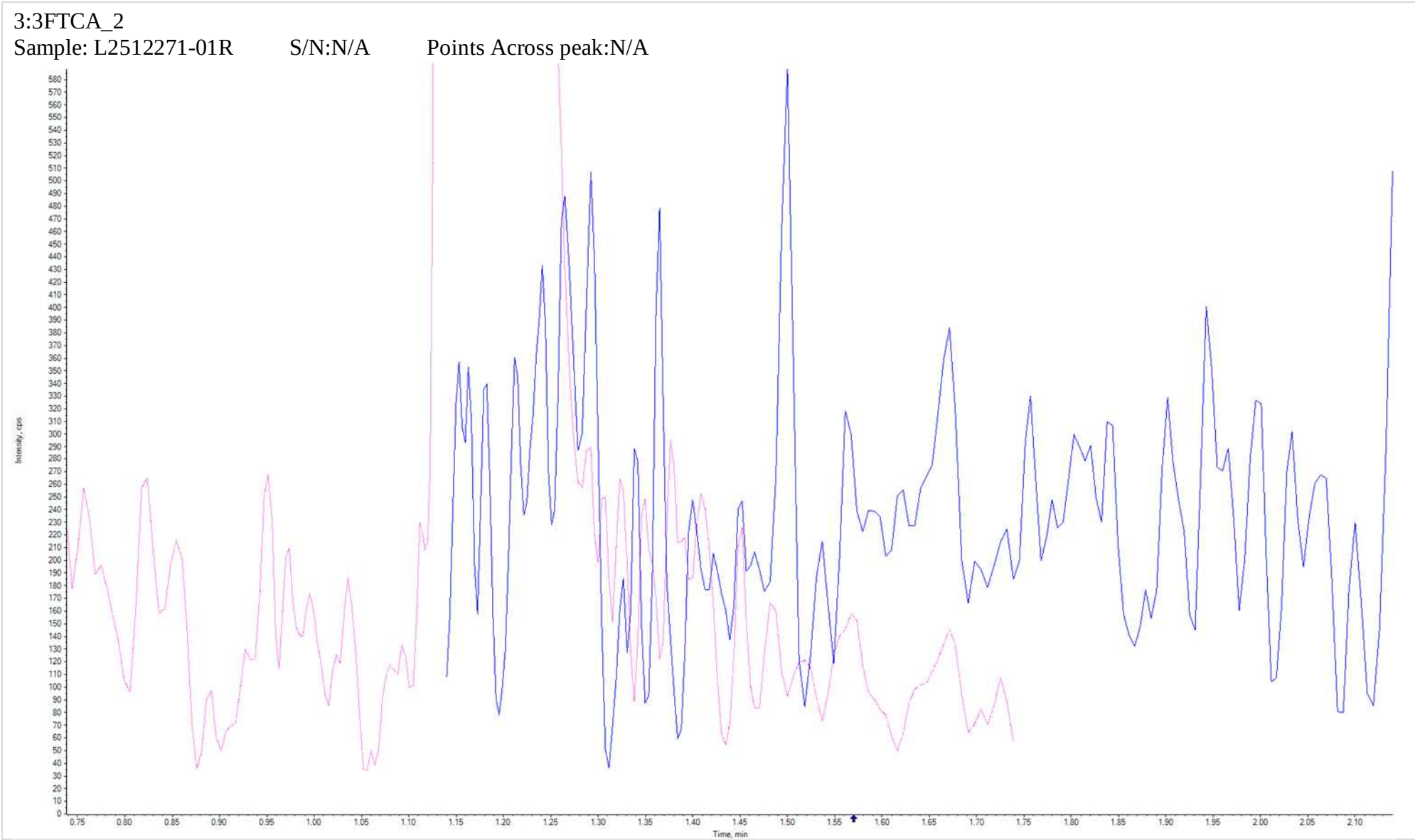


3:3FTCA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



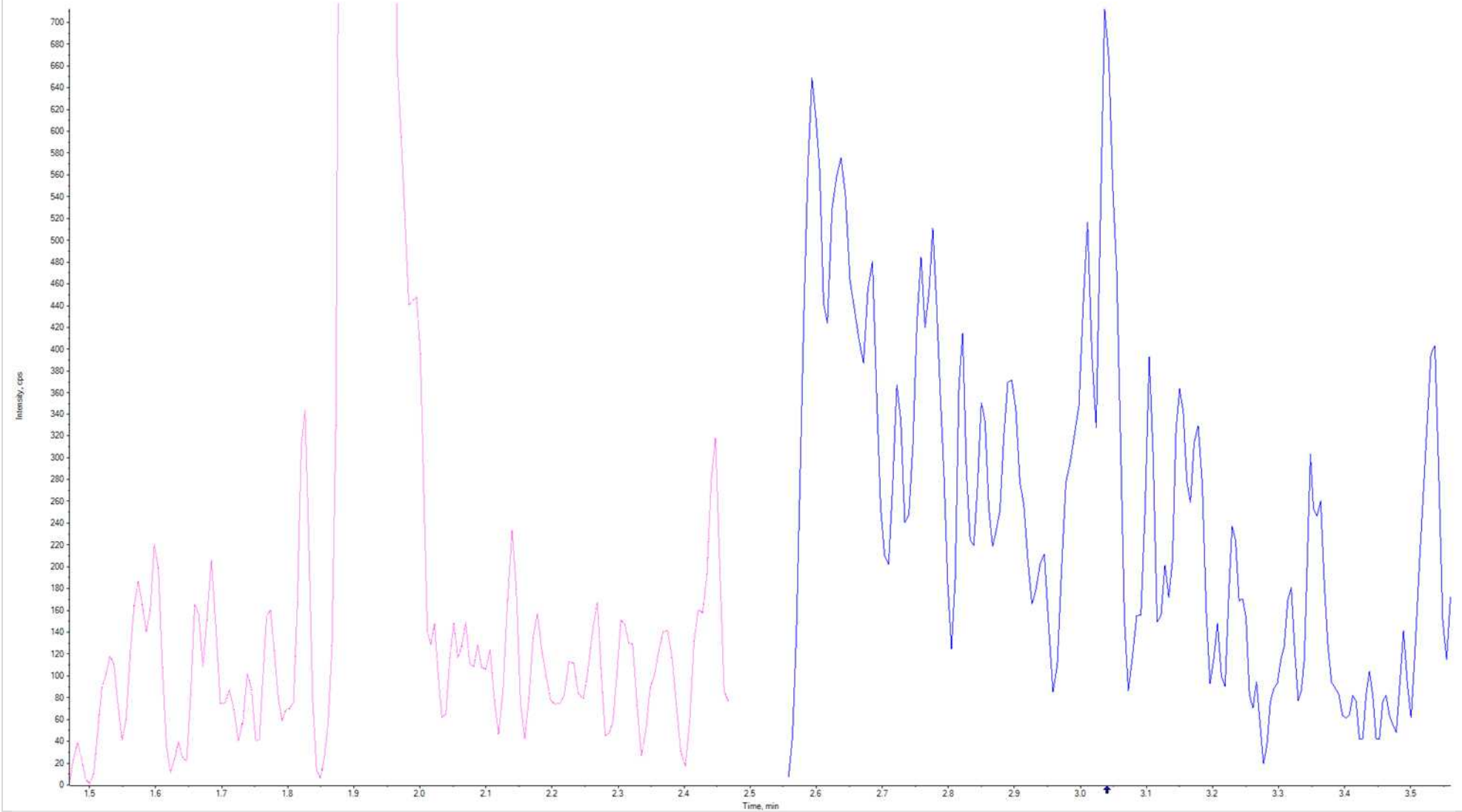
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

3:3FTCA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



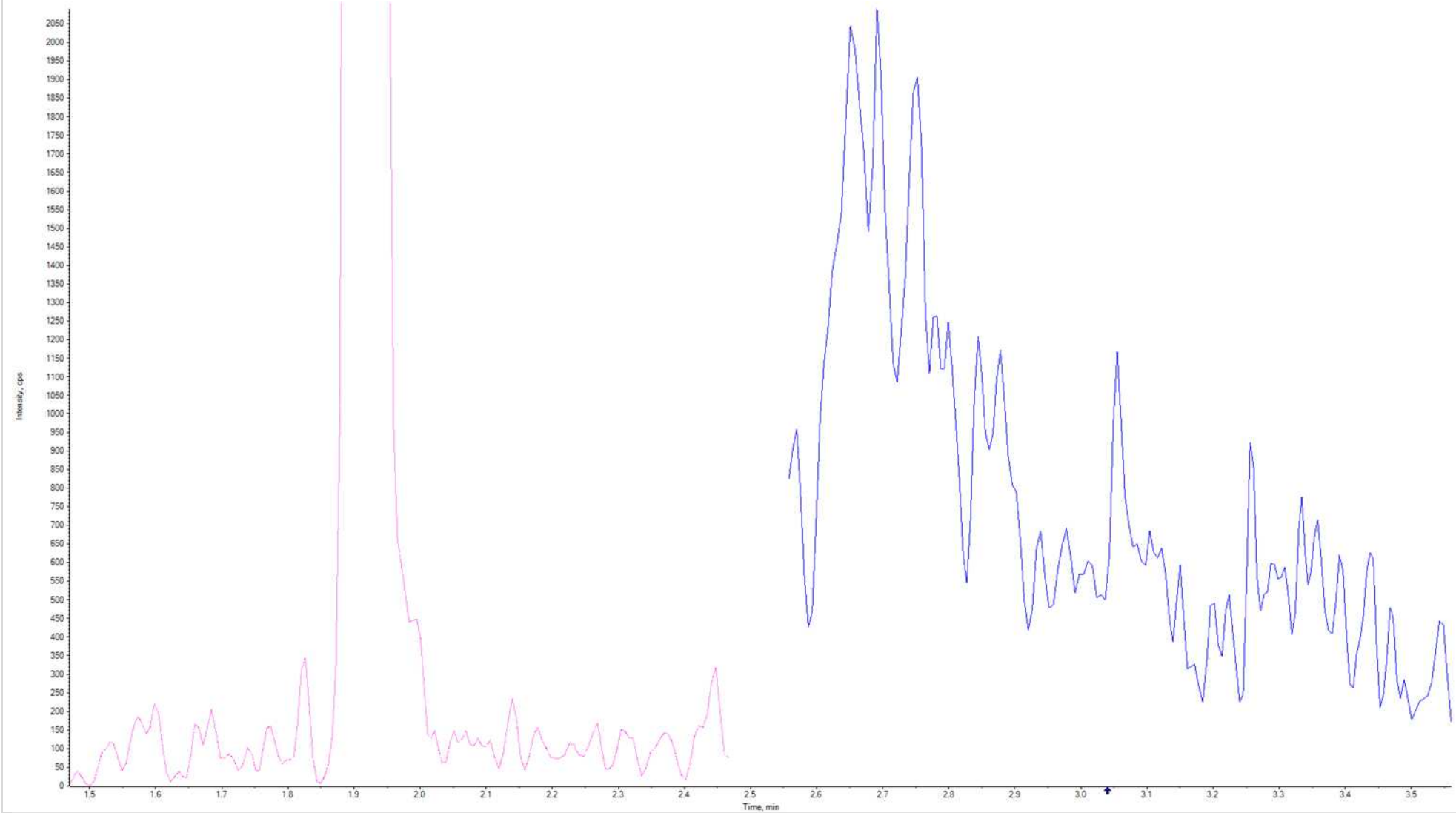
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Generated: 3/11/2025 12:26:59 PM

5:3FTCA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



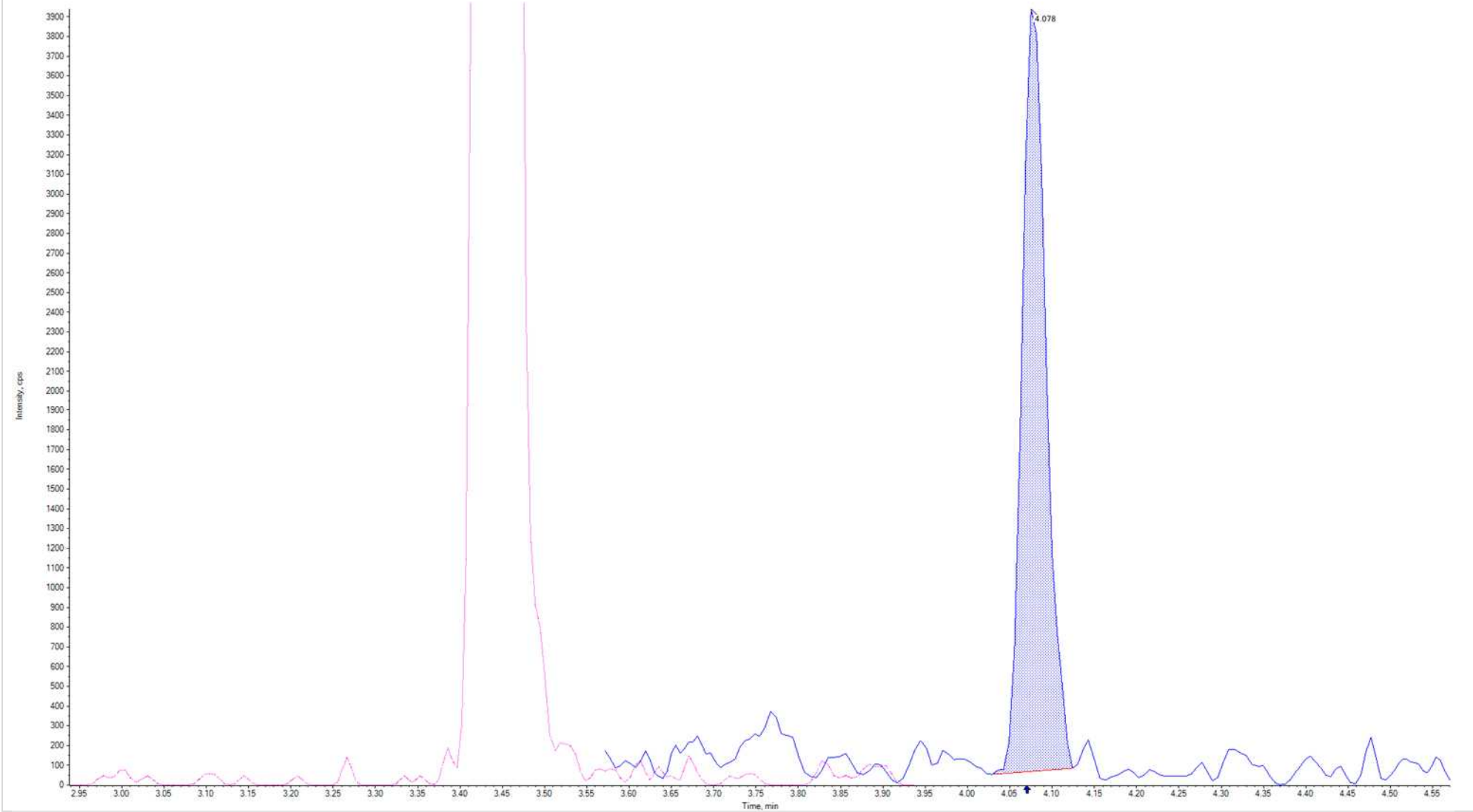
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5:3FTCA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



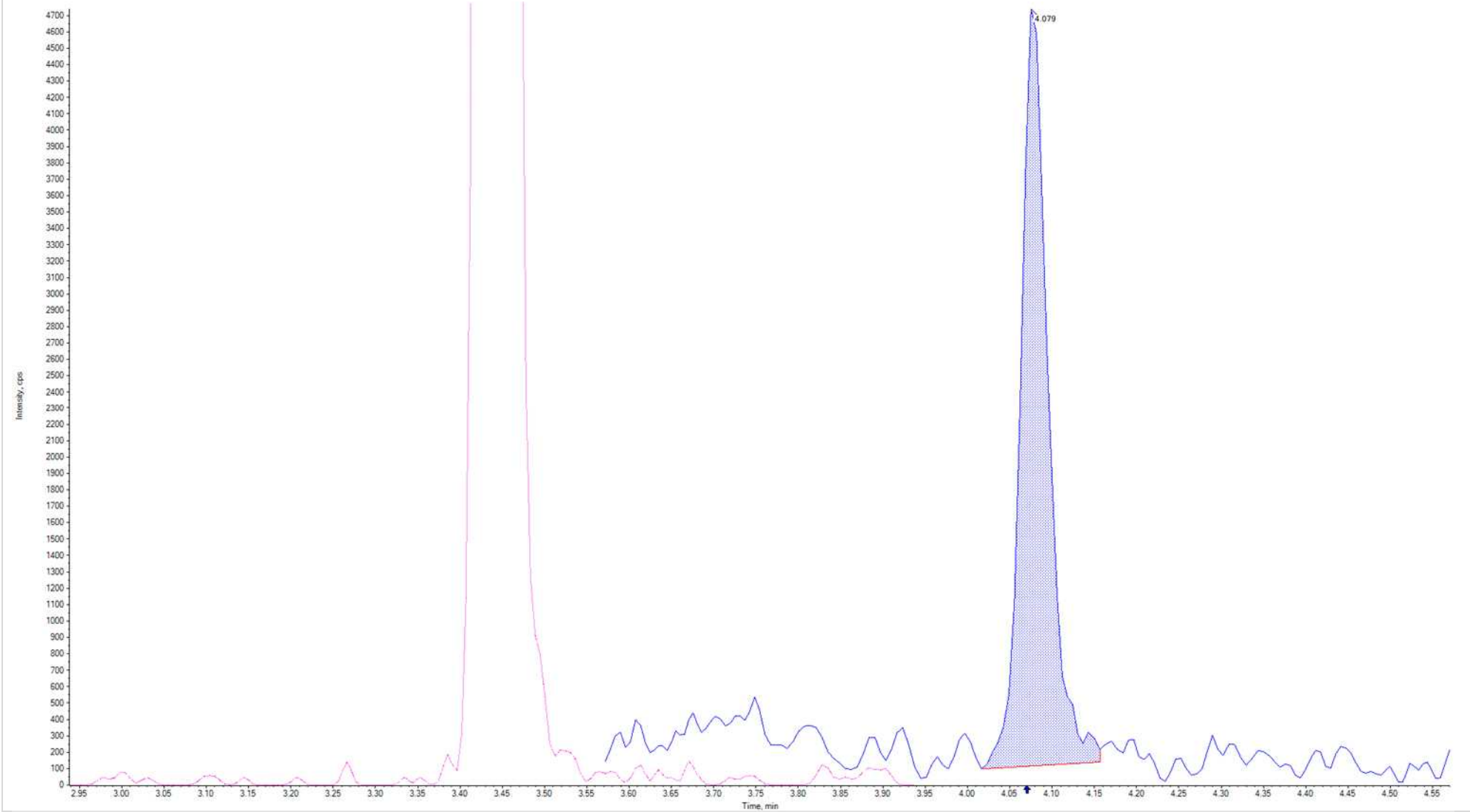
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Generated: 3/11/2025 12:26:59 PM

7:3FTCA
Sample: L2512271-01R S/N:106.7 Points Across peak:16



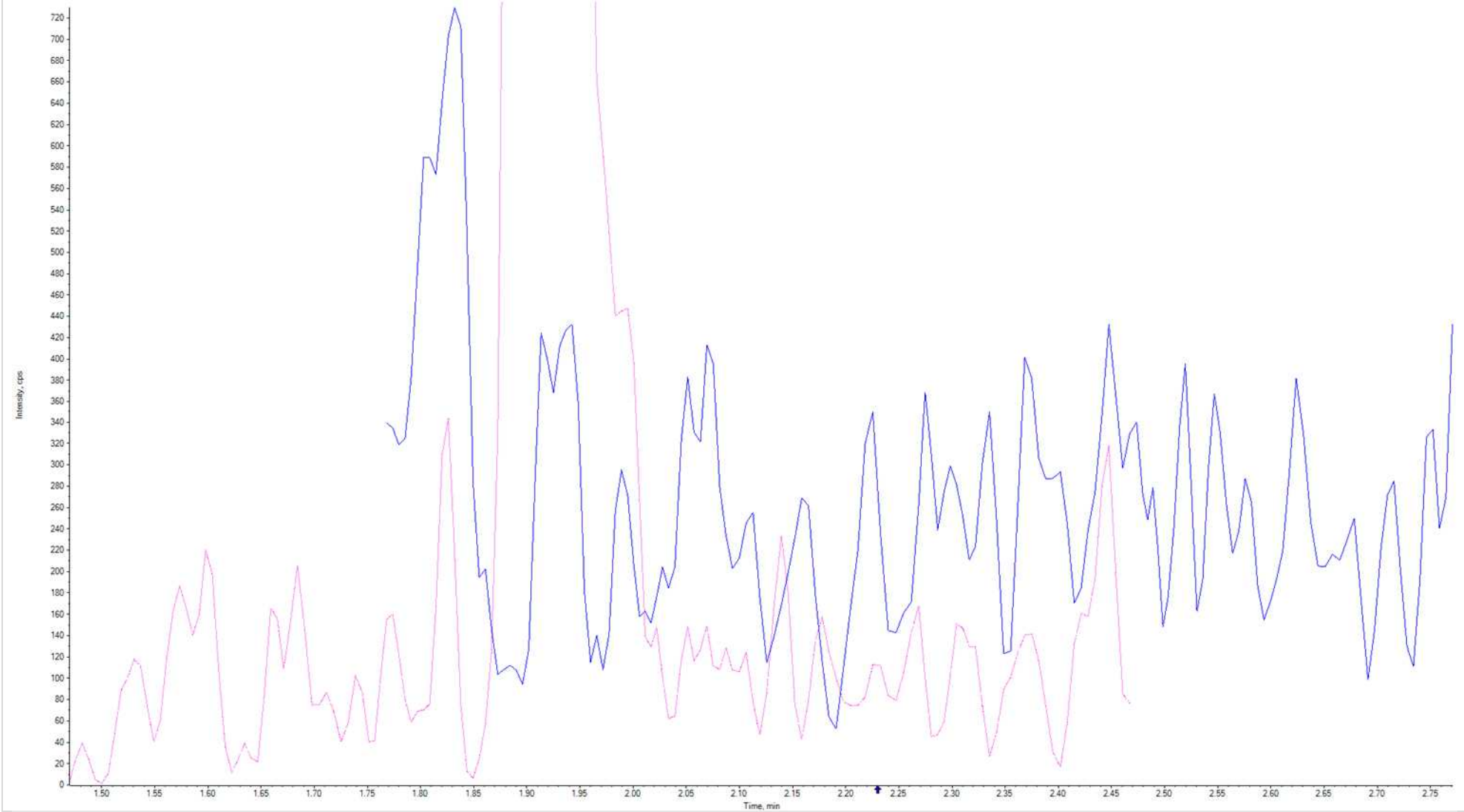
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7:3FTCA_2
Sample: L2512271-01R S/N:127.5 Points Across peak:23



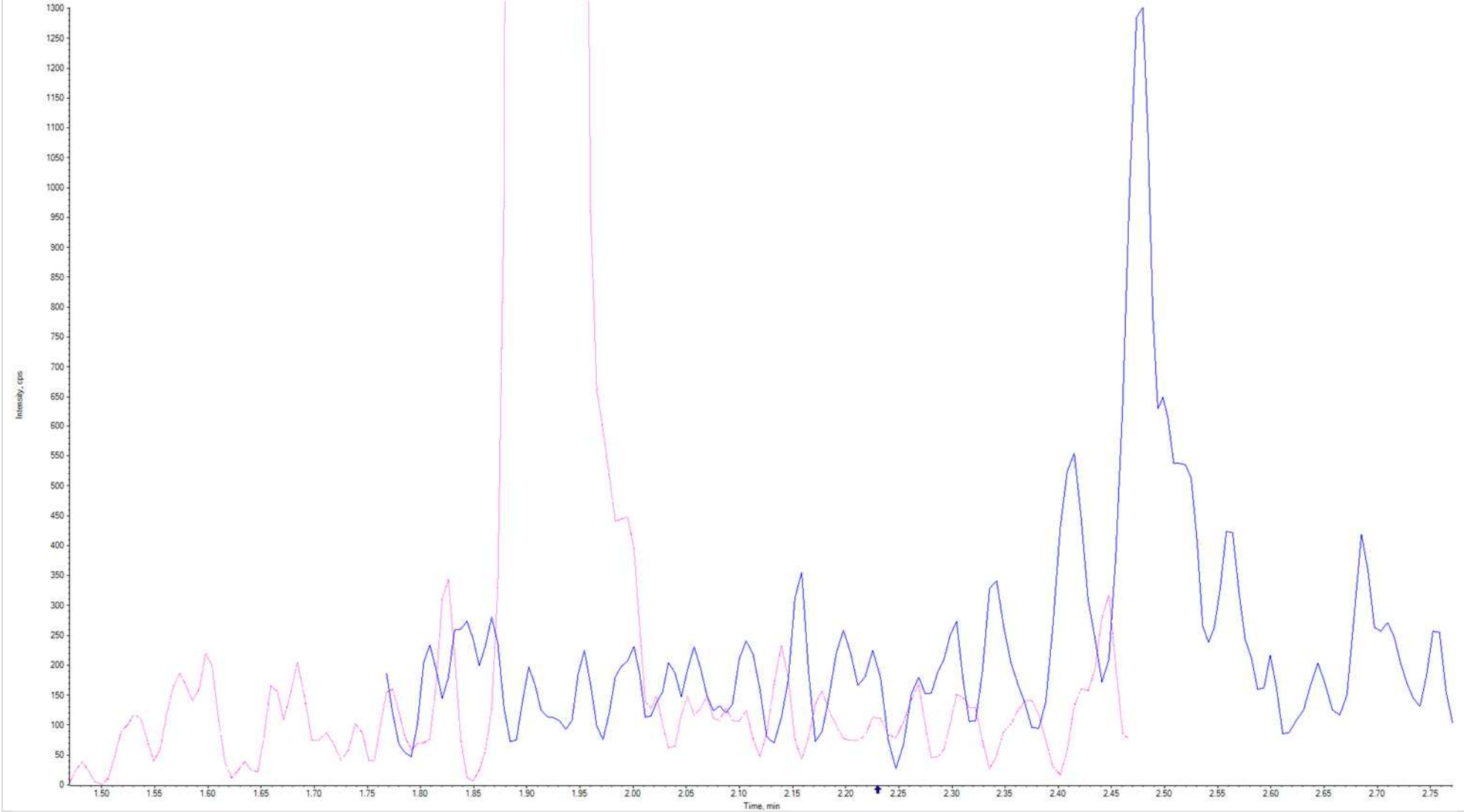
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PFEESA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

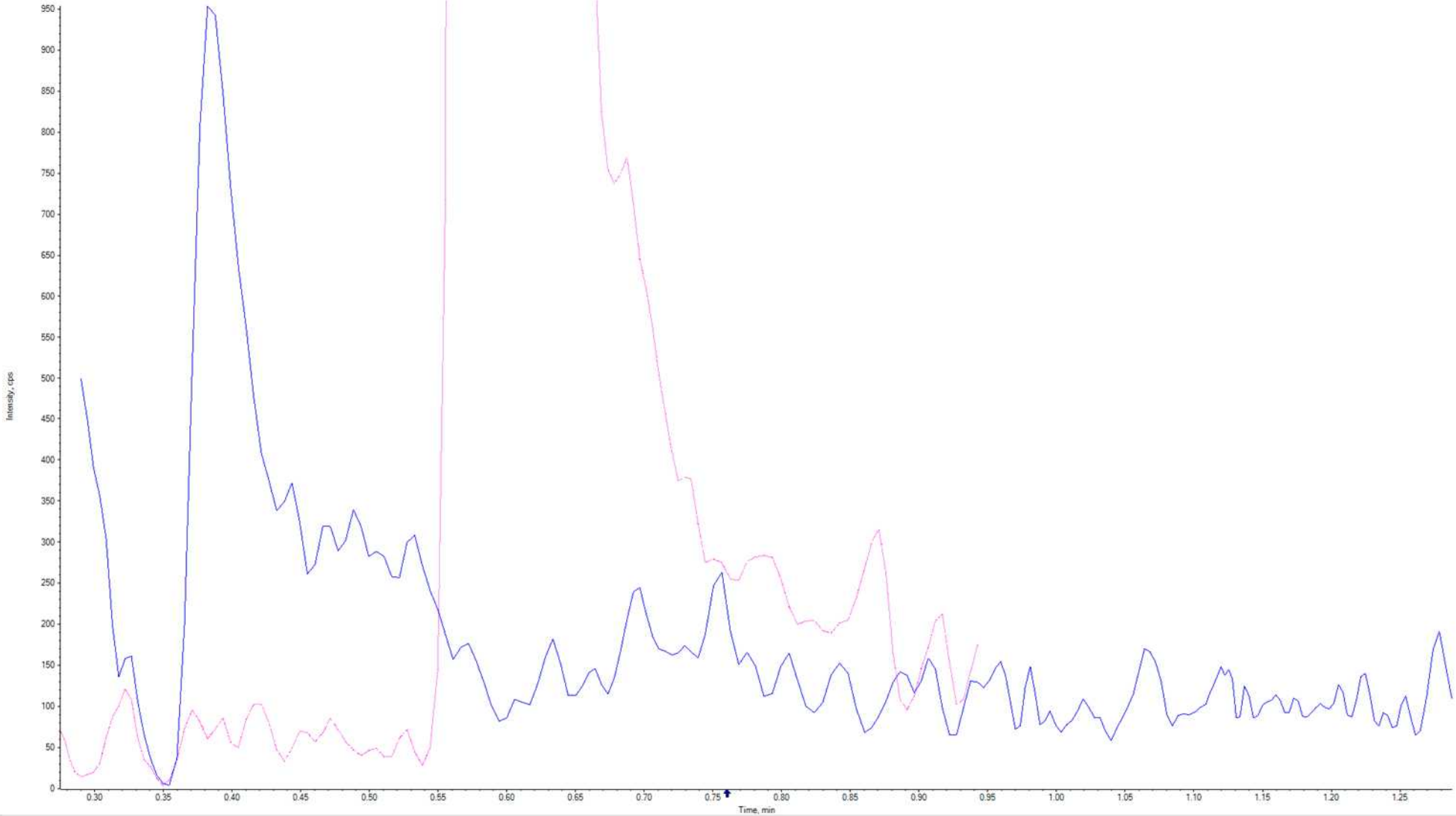


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PFEESA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

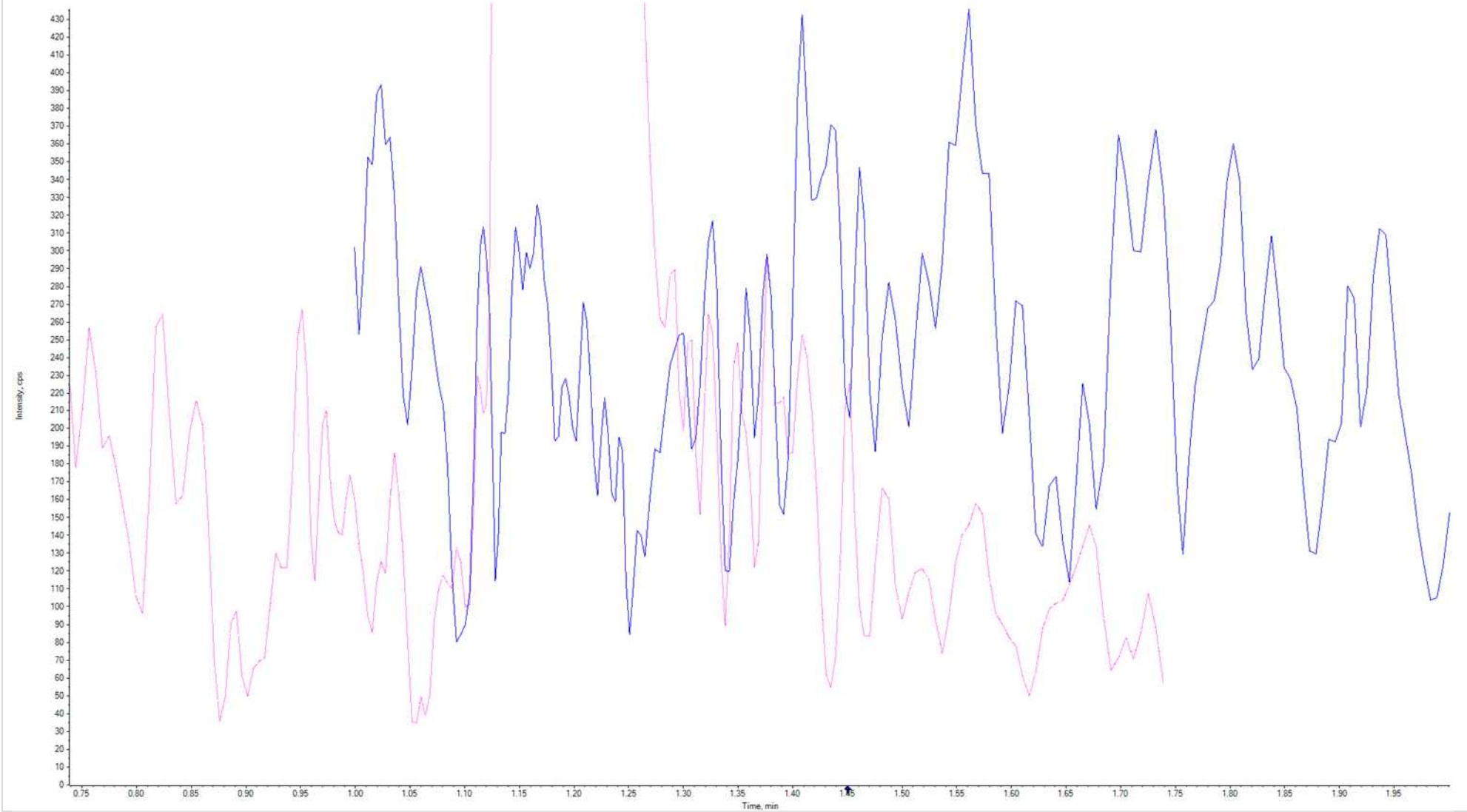


PFMPA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



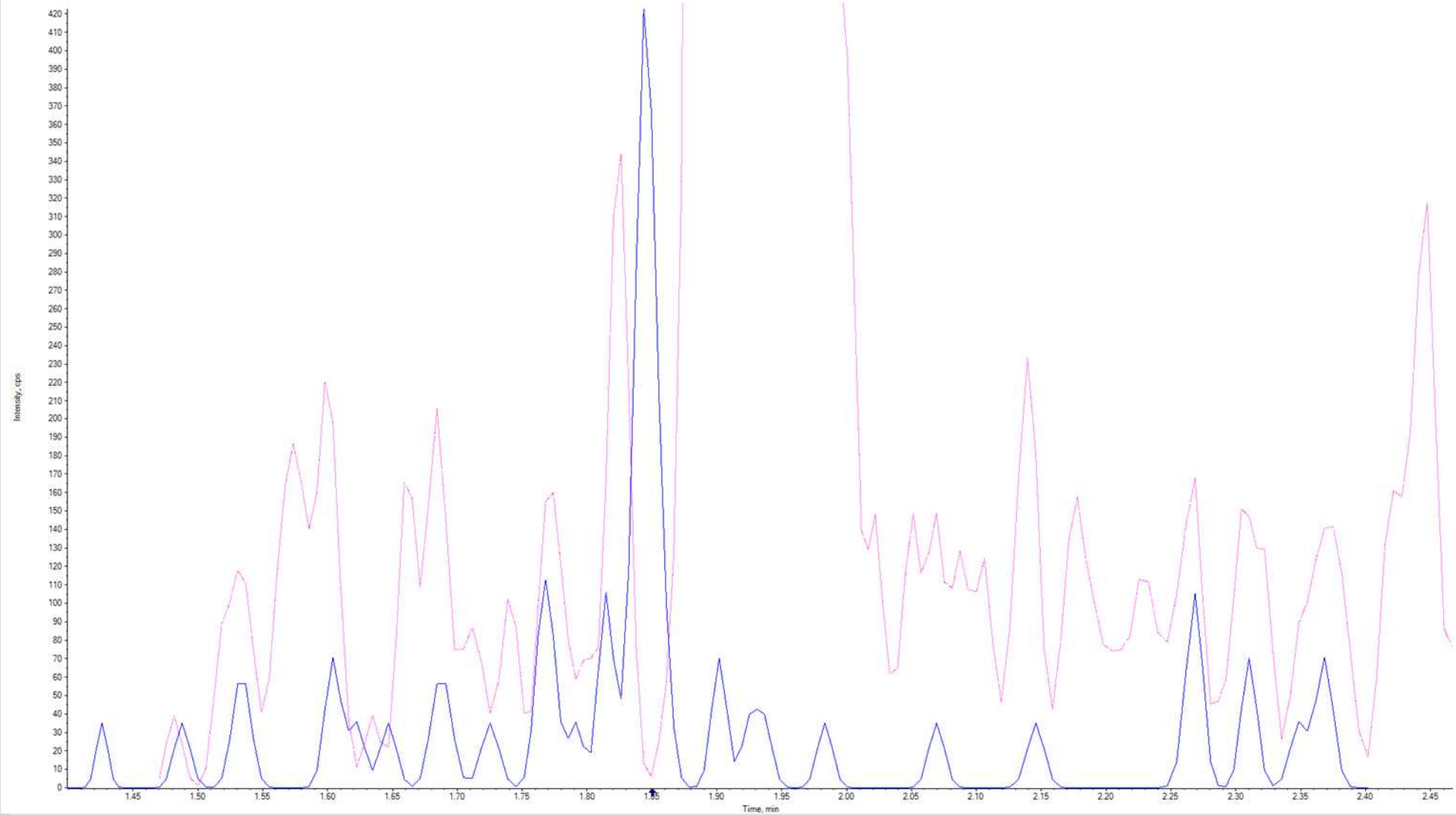
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PFMBA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

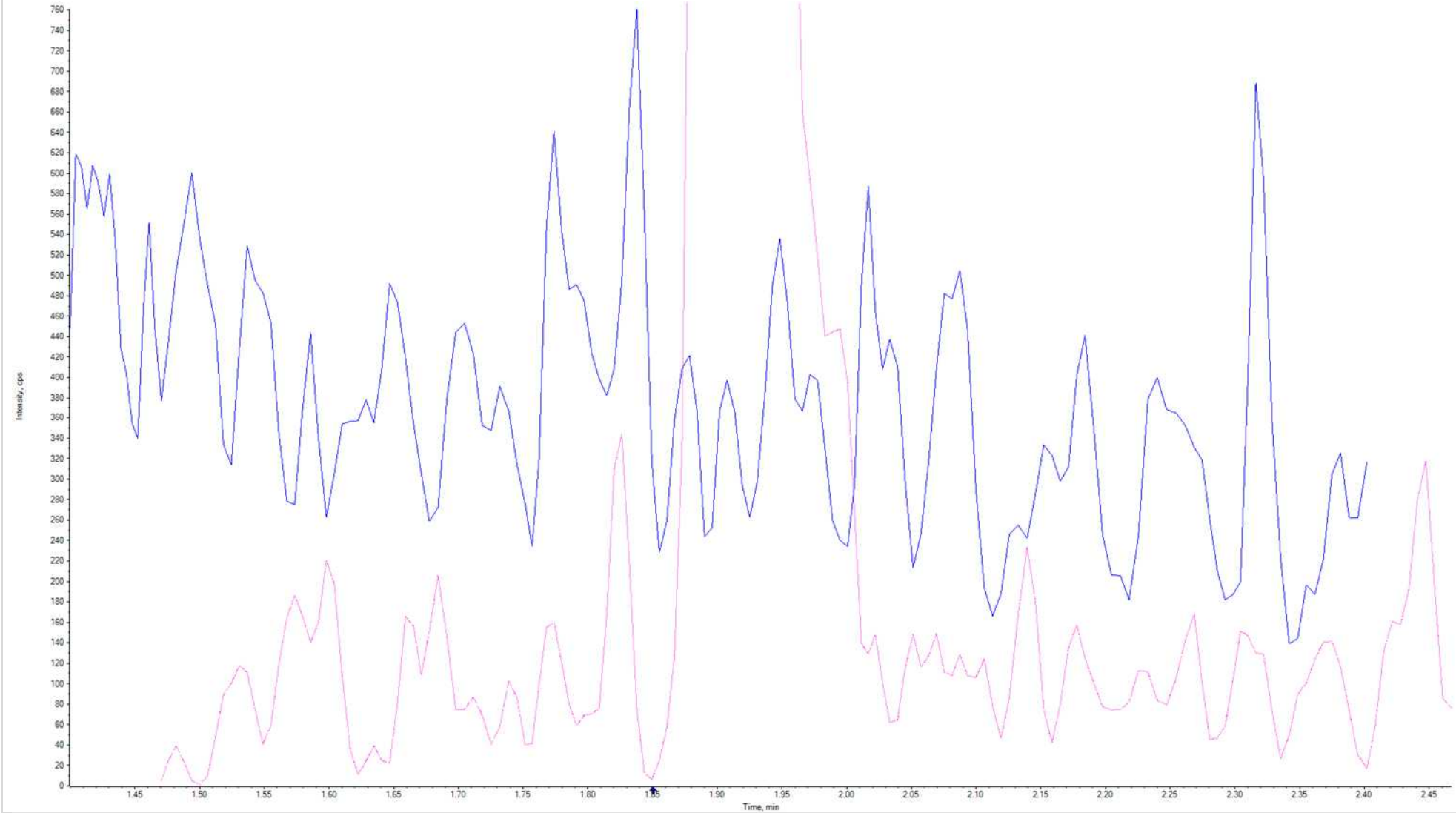


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NFDHA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

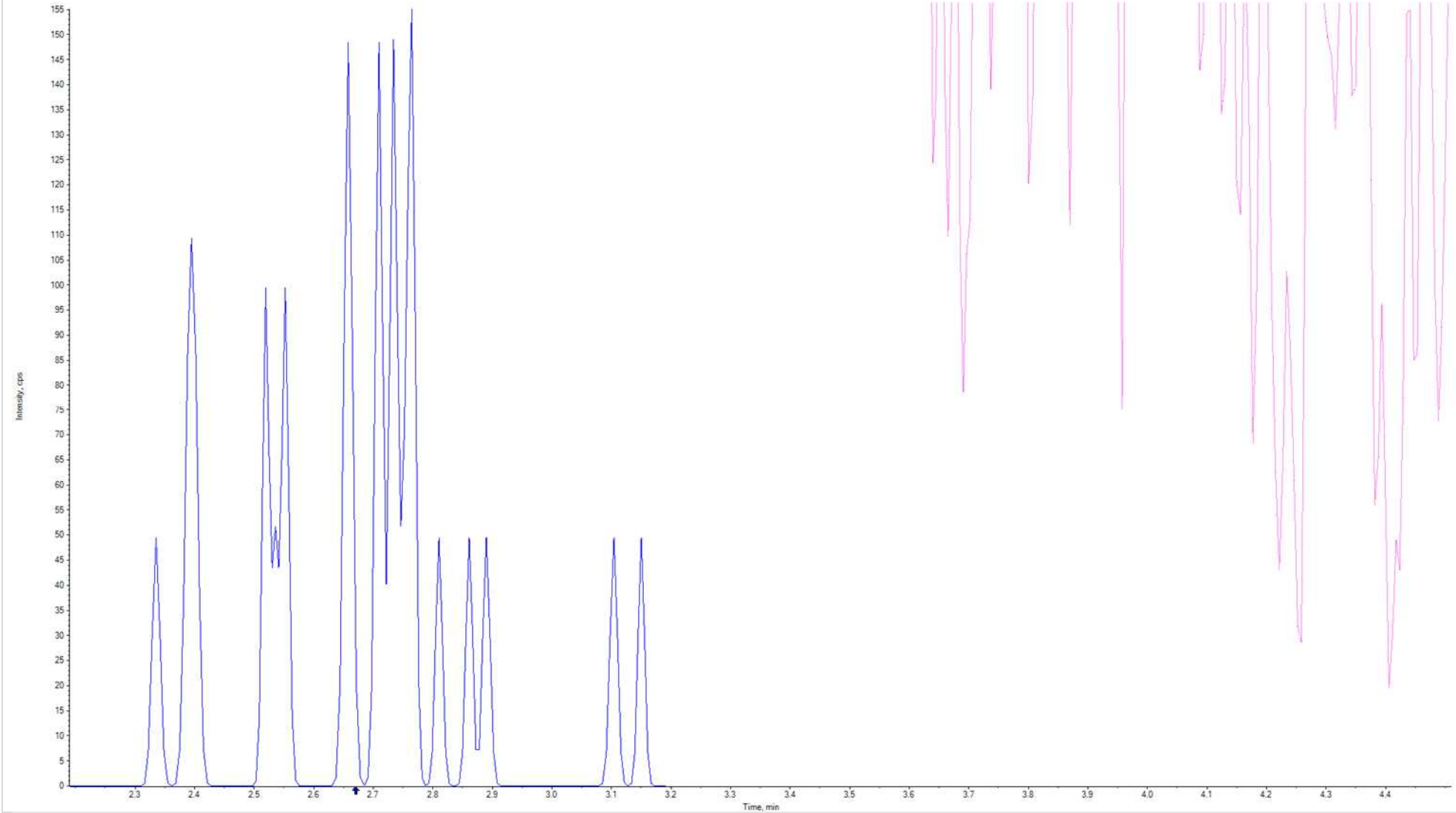


NFDHA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



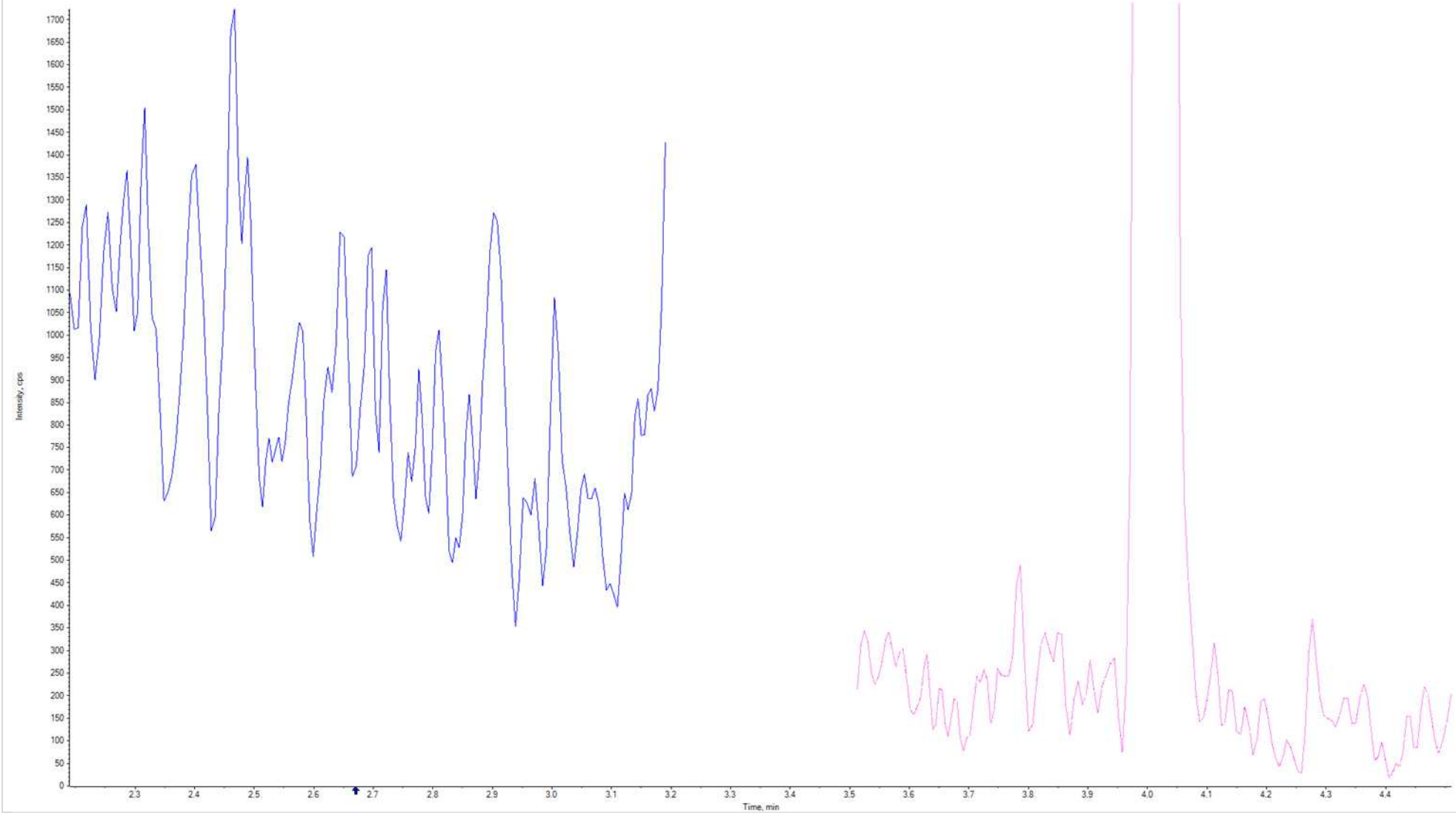
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TDCA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

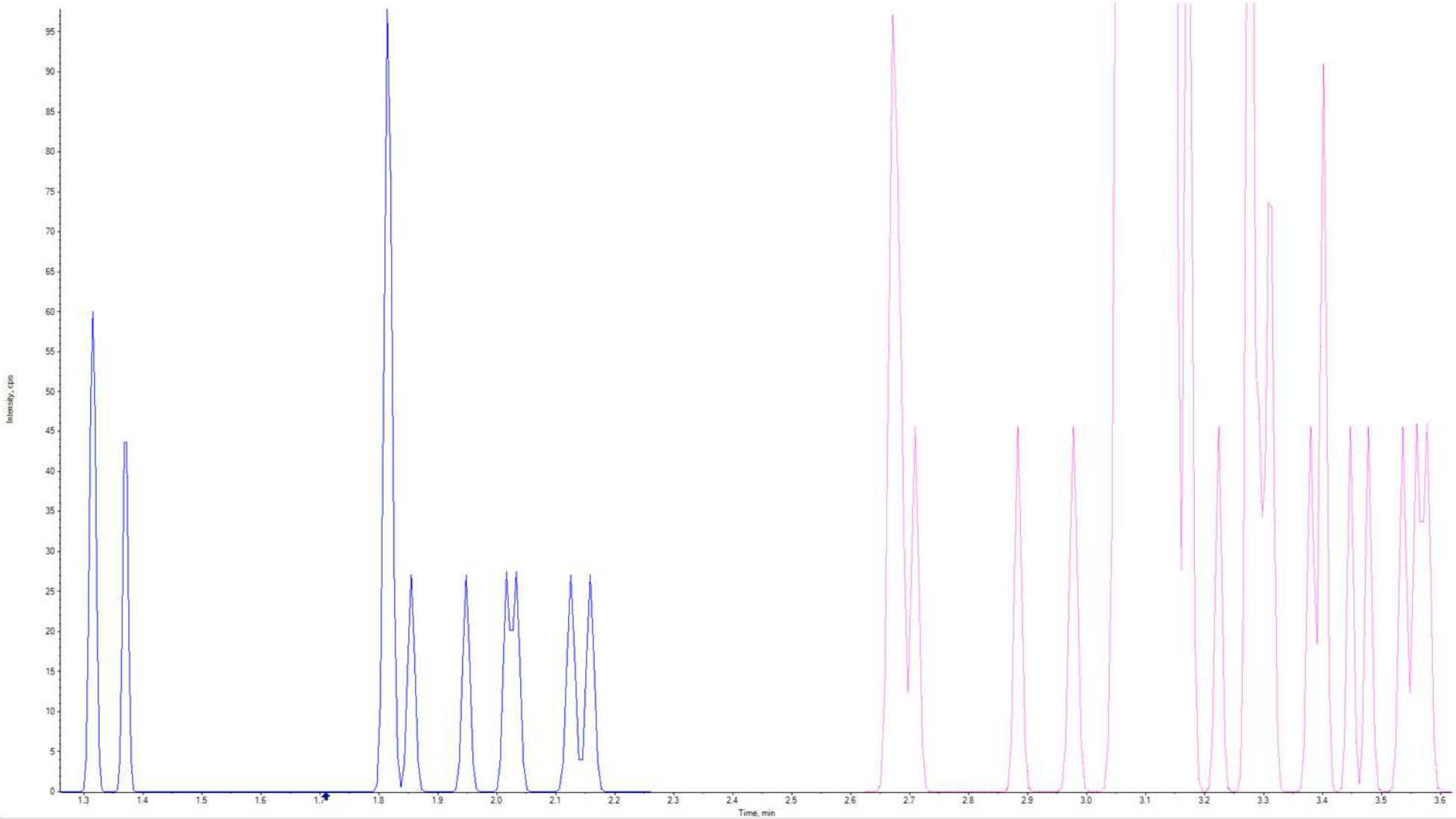


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TDCA_2
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

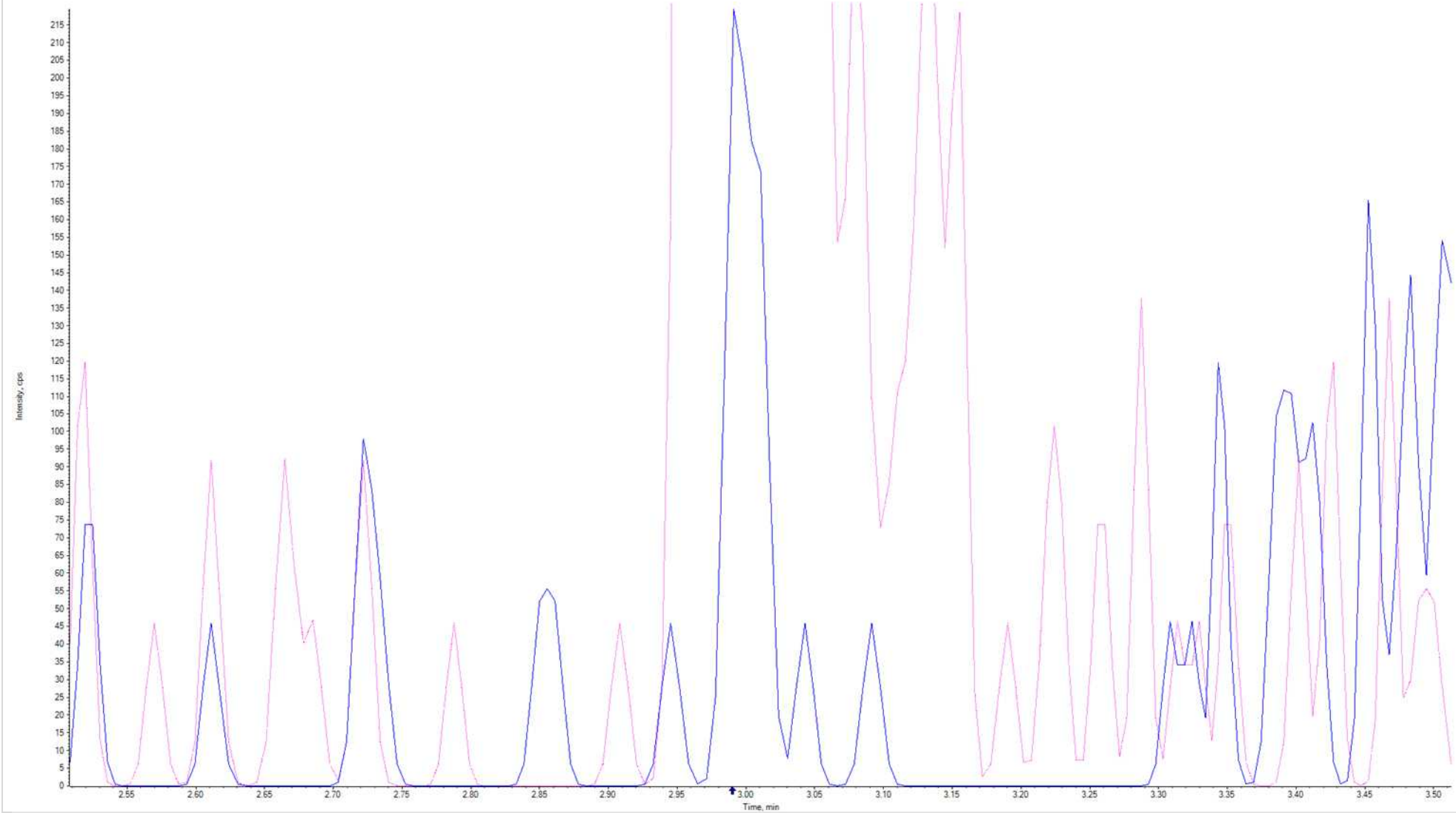


13C2D4-4:2FTS
Sample: L2512271-01R S/N:N/A Points Across peak:N/A

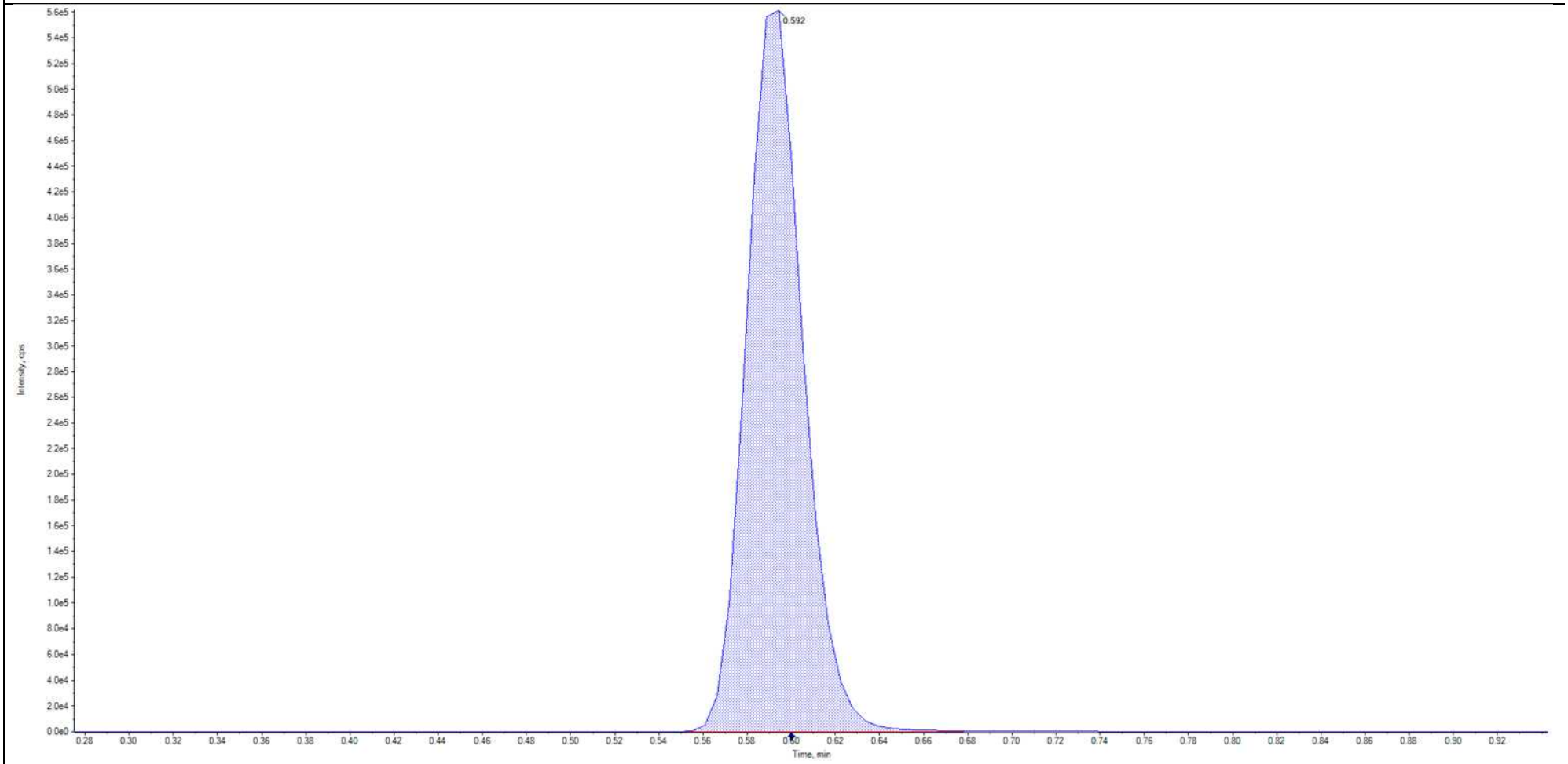


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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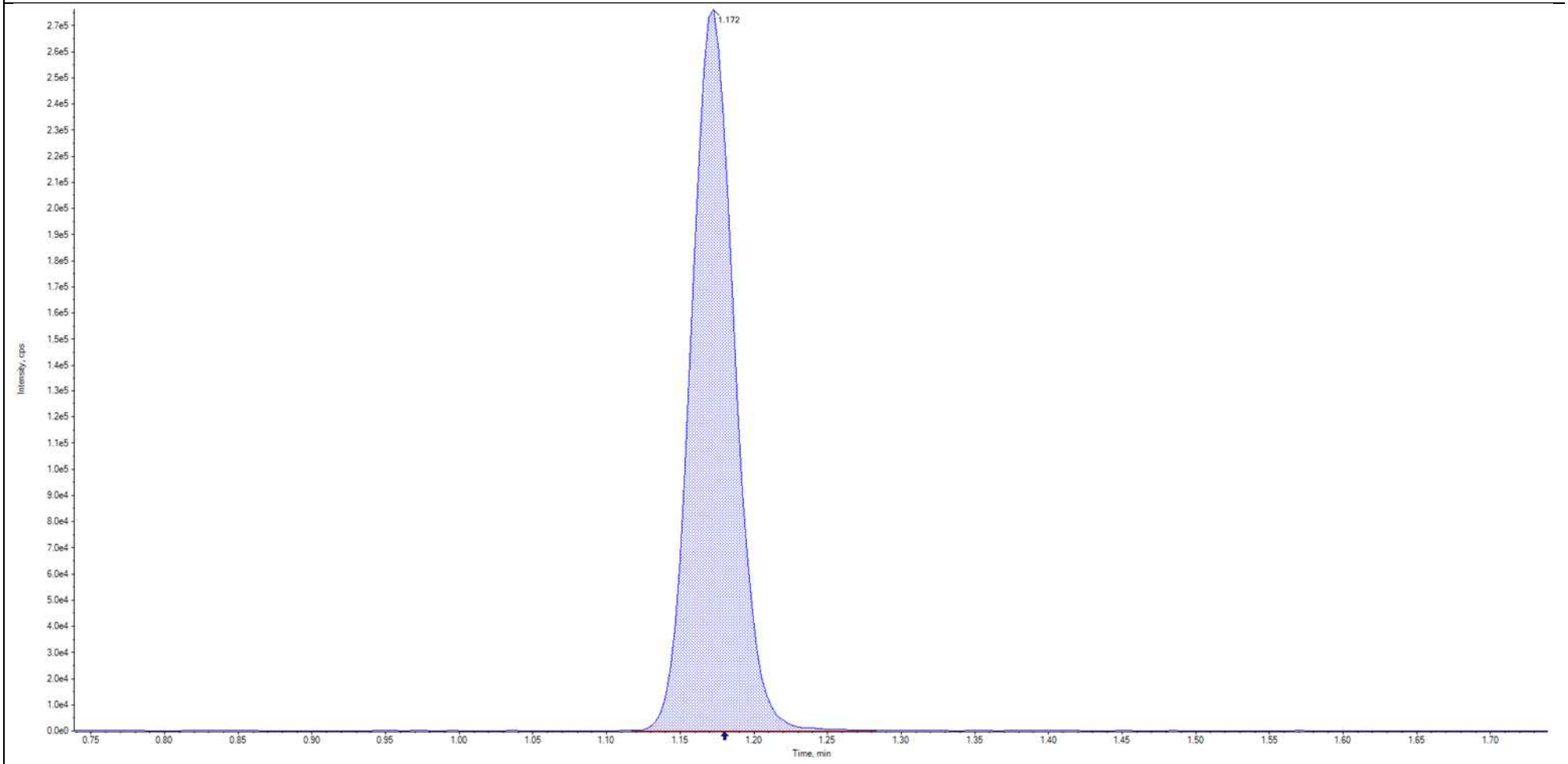
13C2-PFOA
Sample: L2512271-01R S/N:N/A Points Across peak:N/A



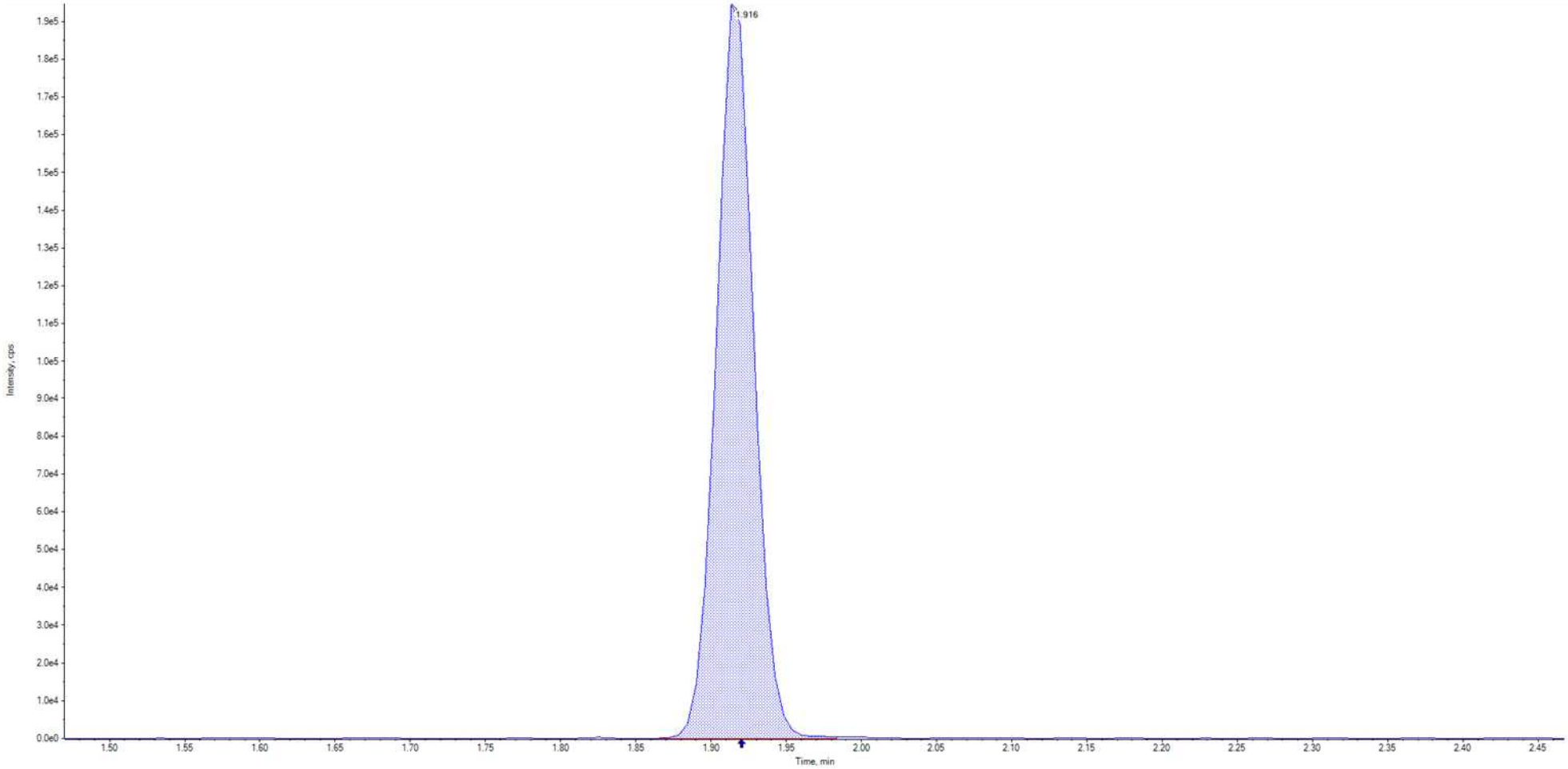
13C4-PFBA
Sample: L2512271-01R



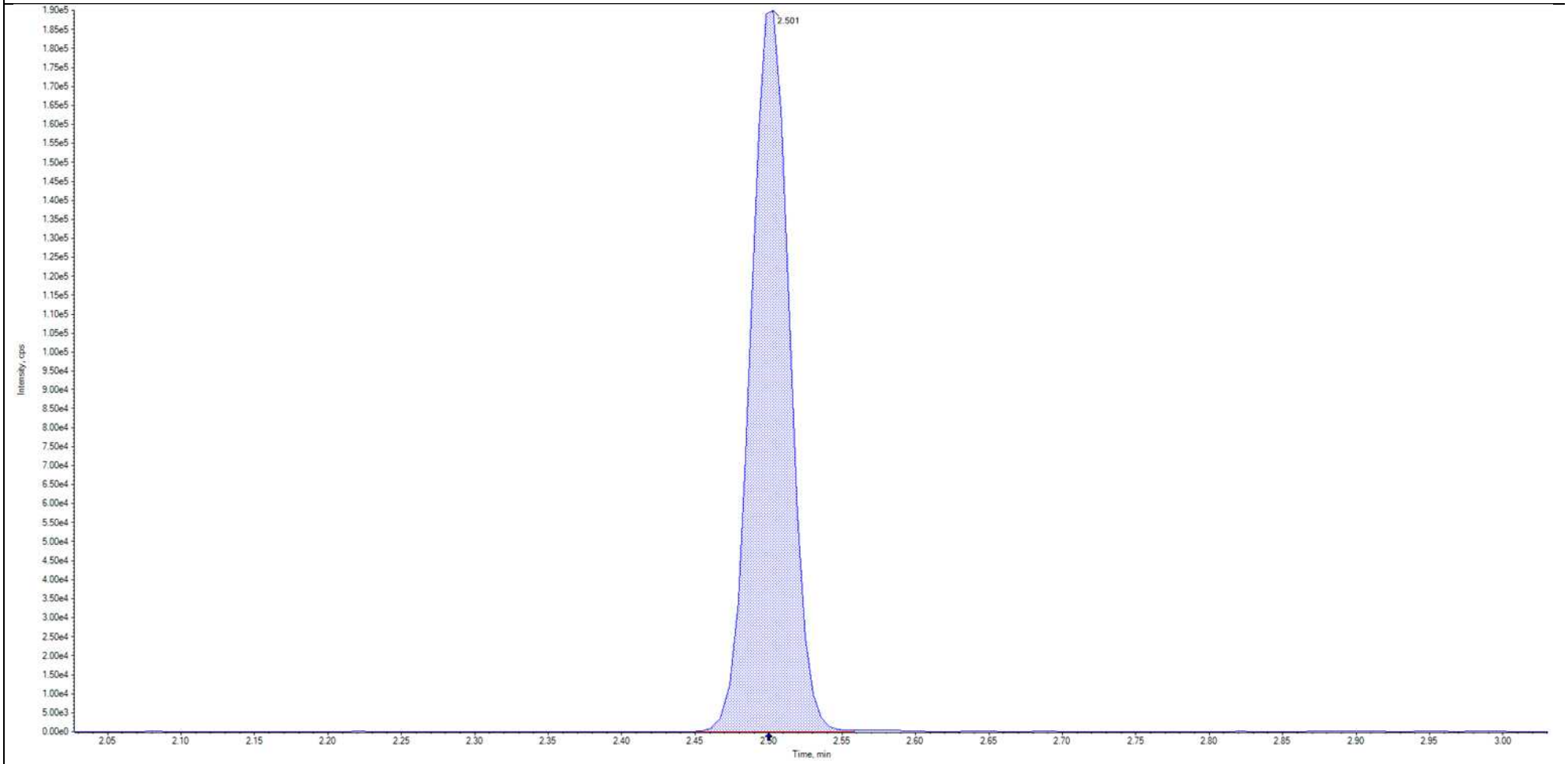
13C5-PFPeA
Sample: L2512271-01R



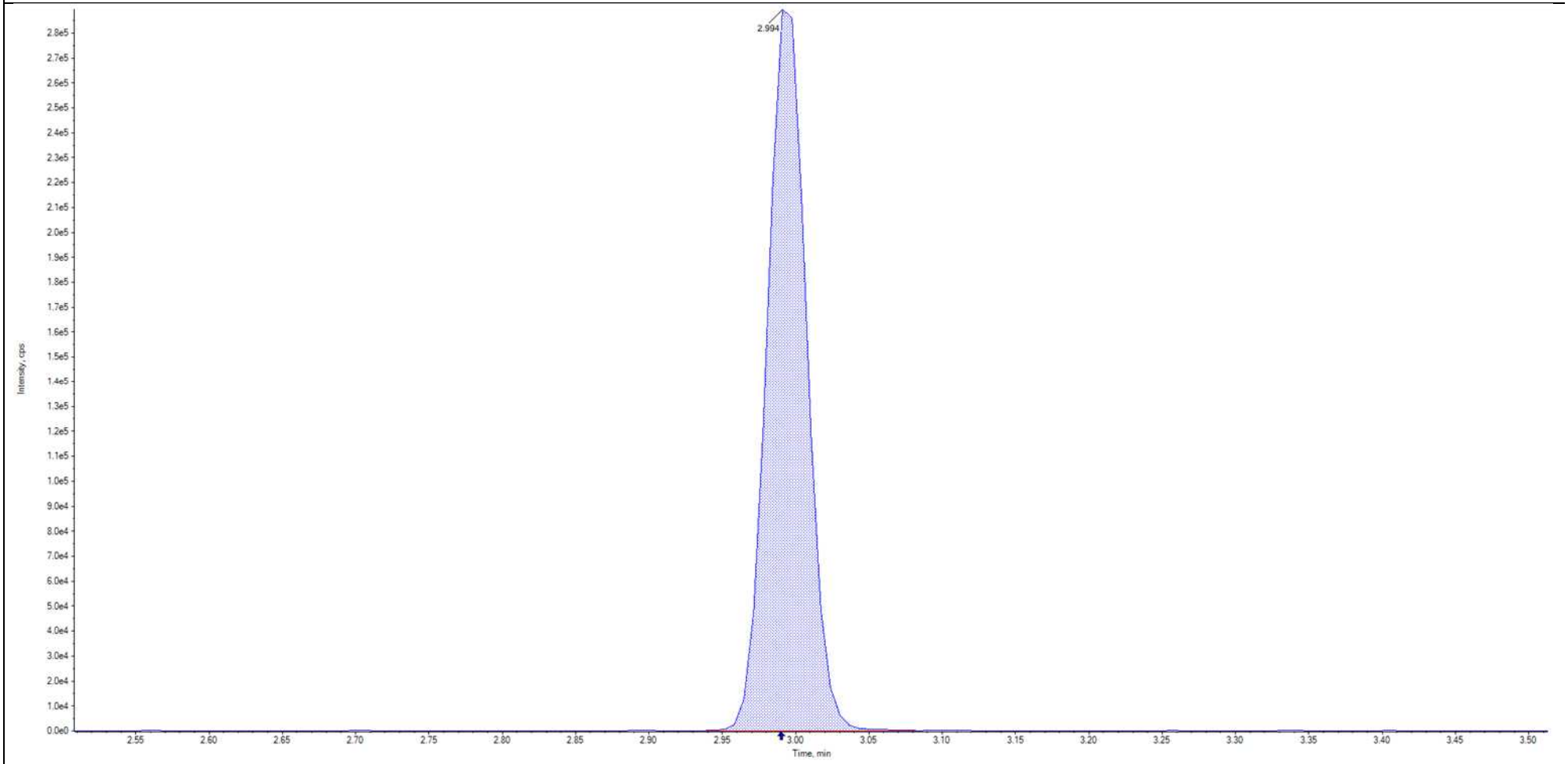
13C5-PFHxA
Sample: L2512271-01R



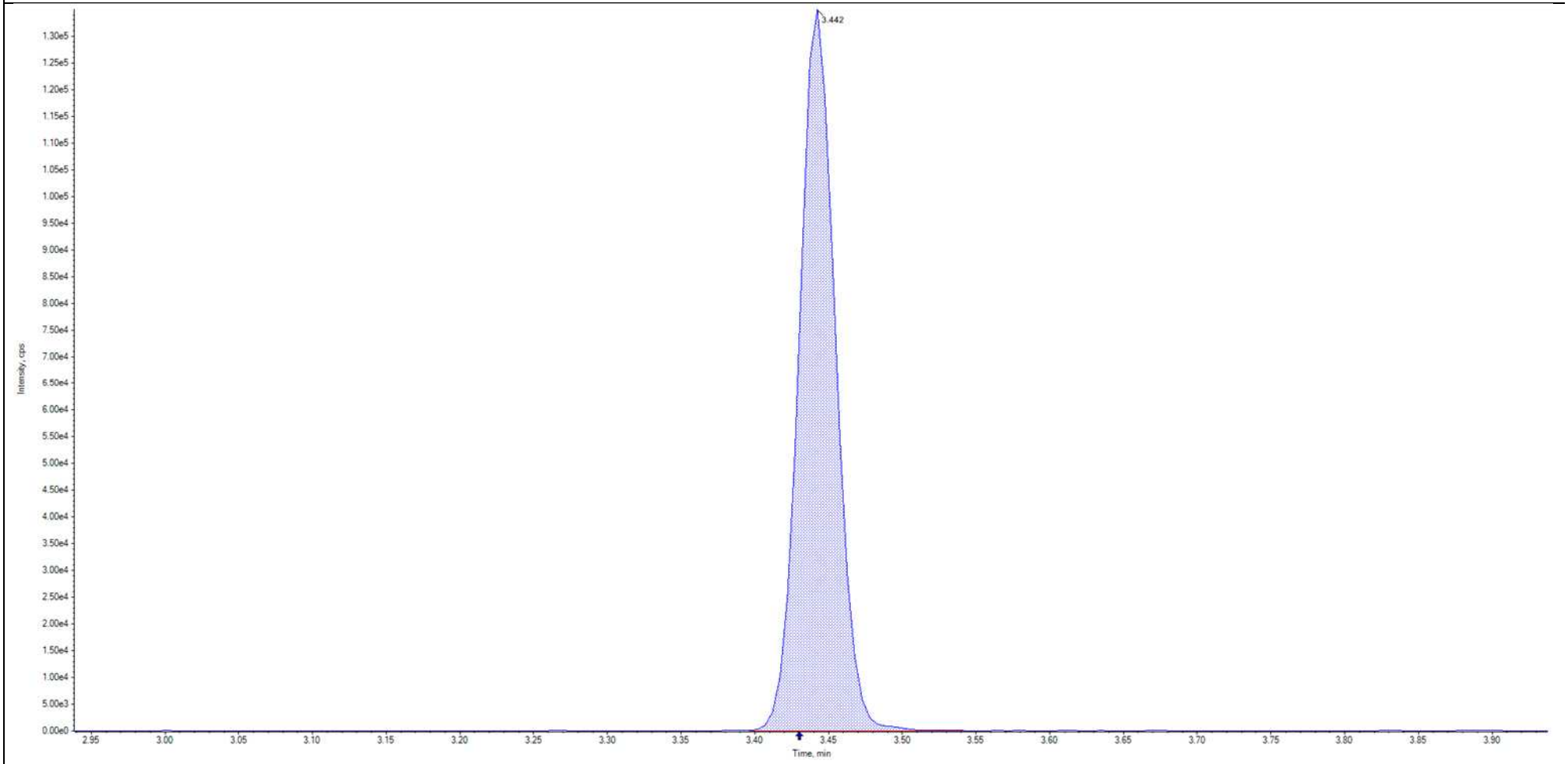
13C4-PFHpA
Sample: L2512271-01R



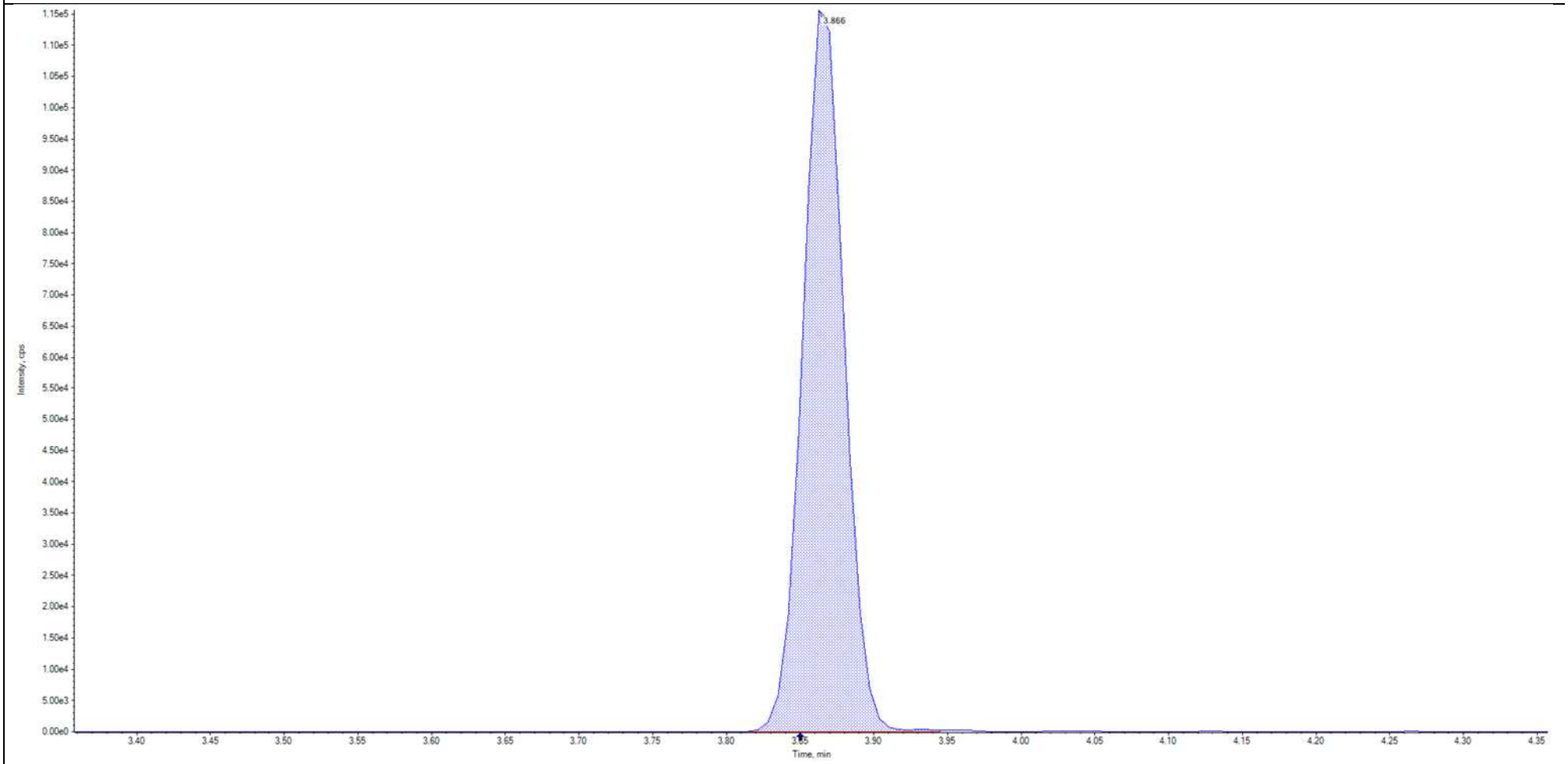
13C8-PFOA
Sample: L2512271-01R



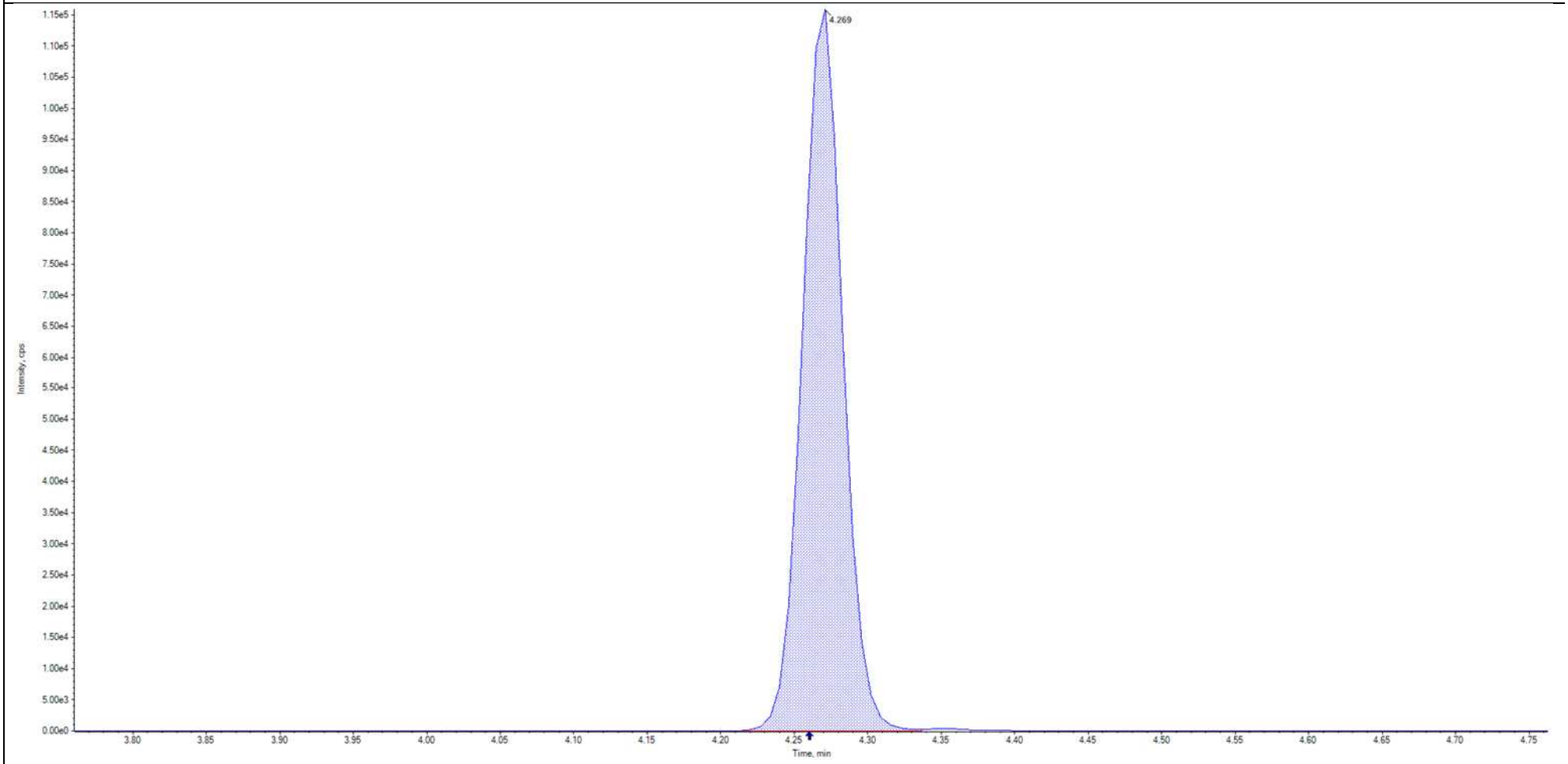
13C9-PFNA
Sample: L2512271-01R



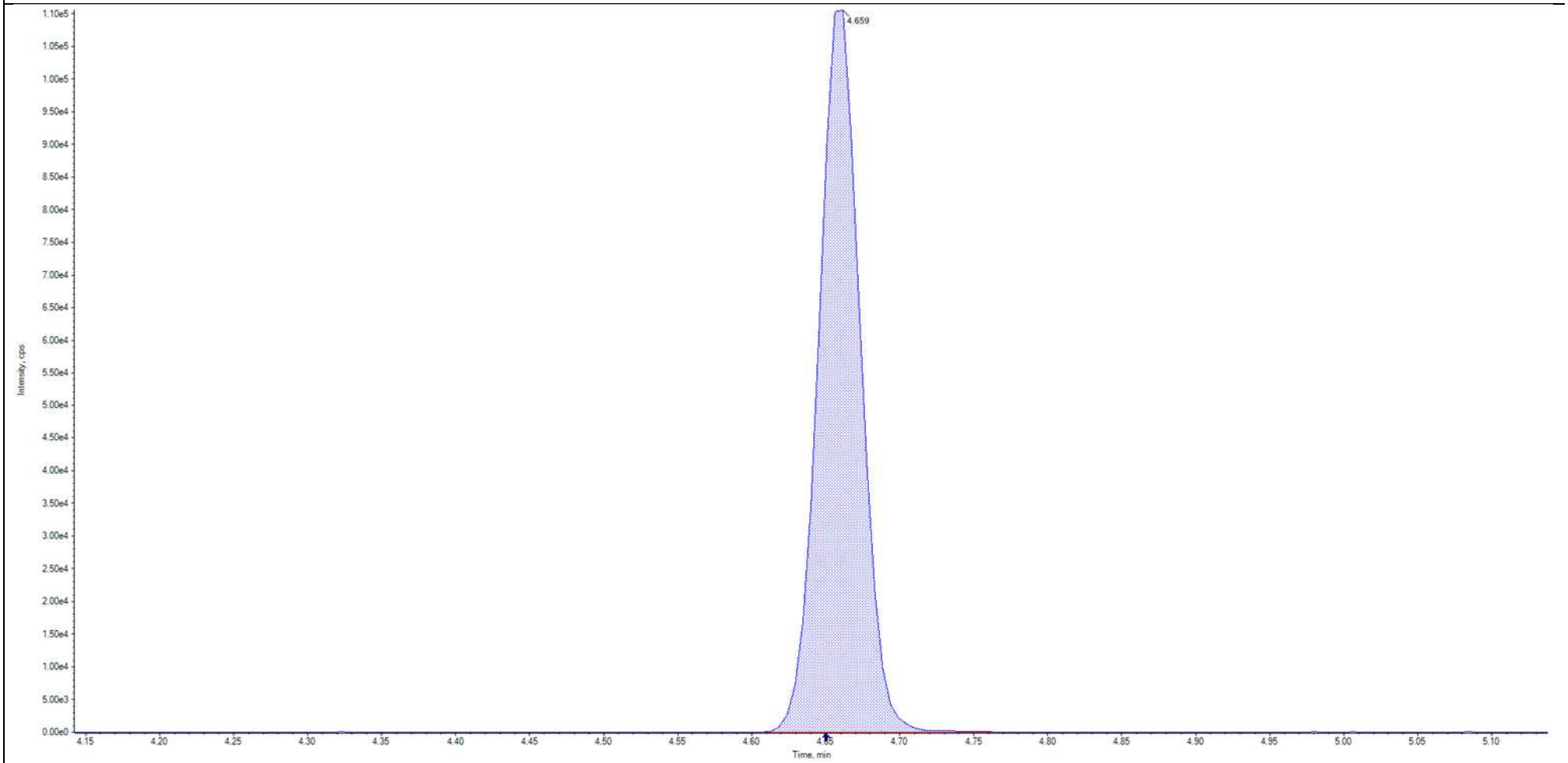
13C6-PFDA
Sample: L2512271-01R



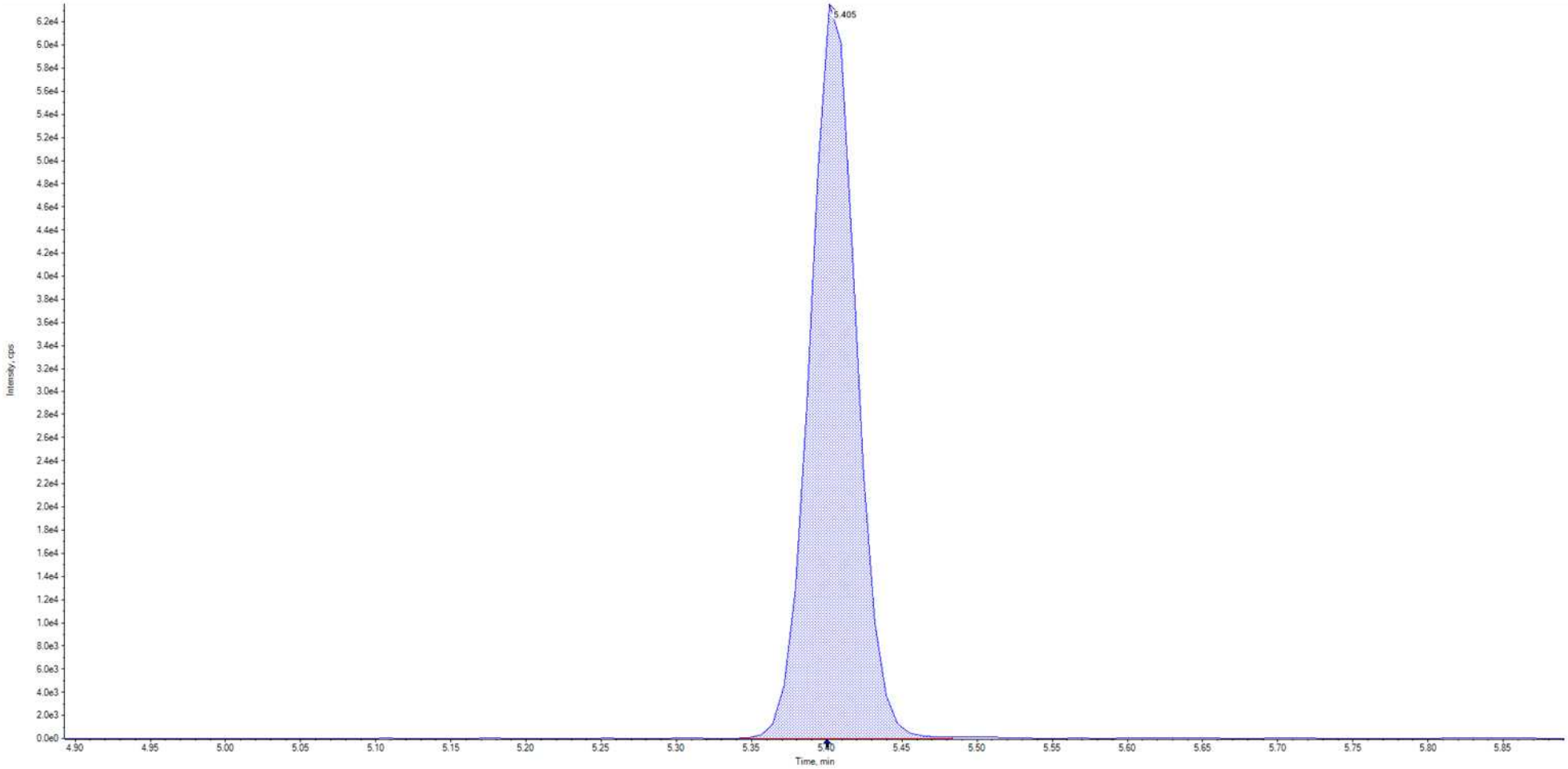
13C7-PFUnA
Sample: L2512271-01R



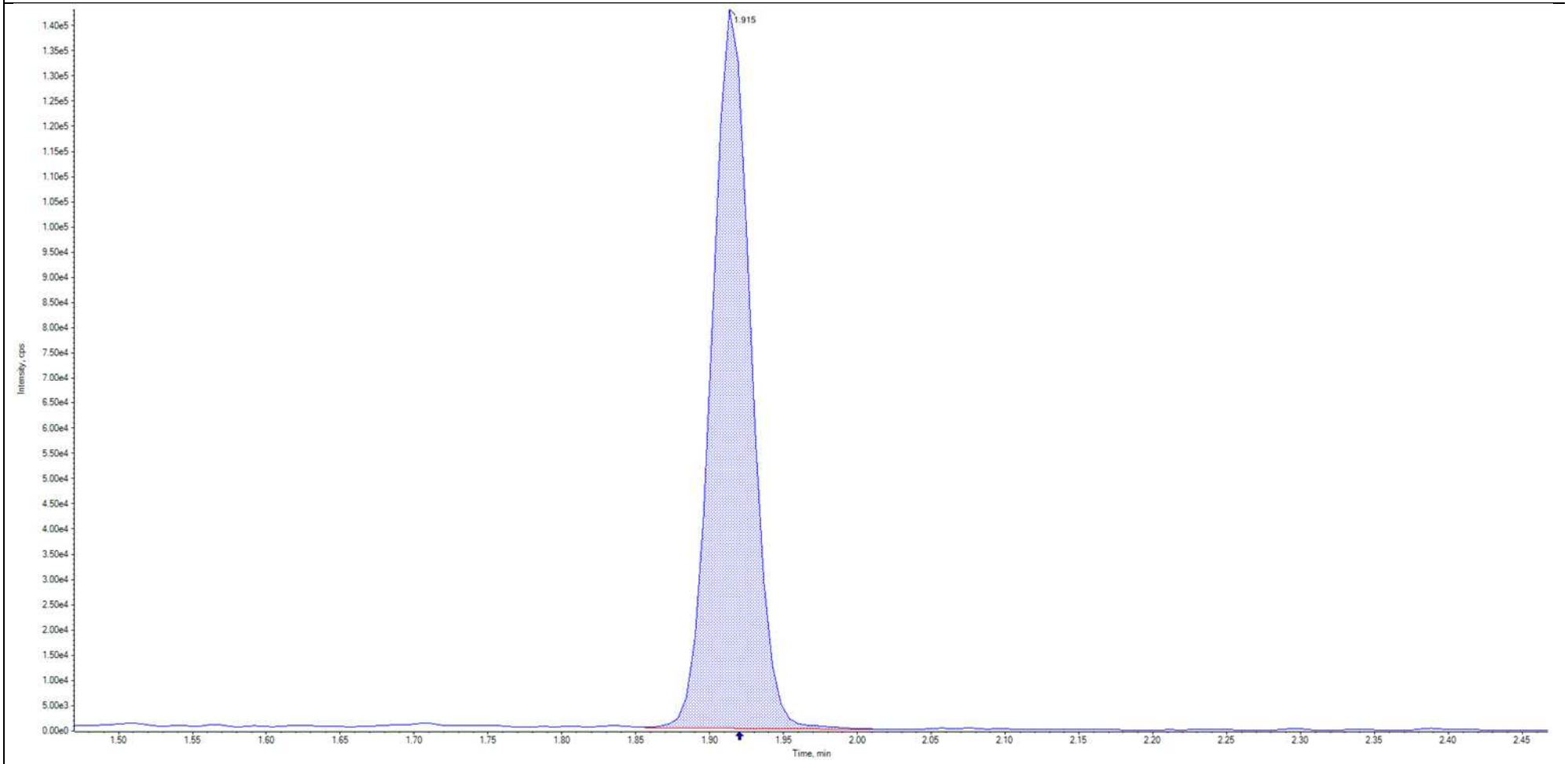
13C2-PFDoA
Sample: L2512271-01R



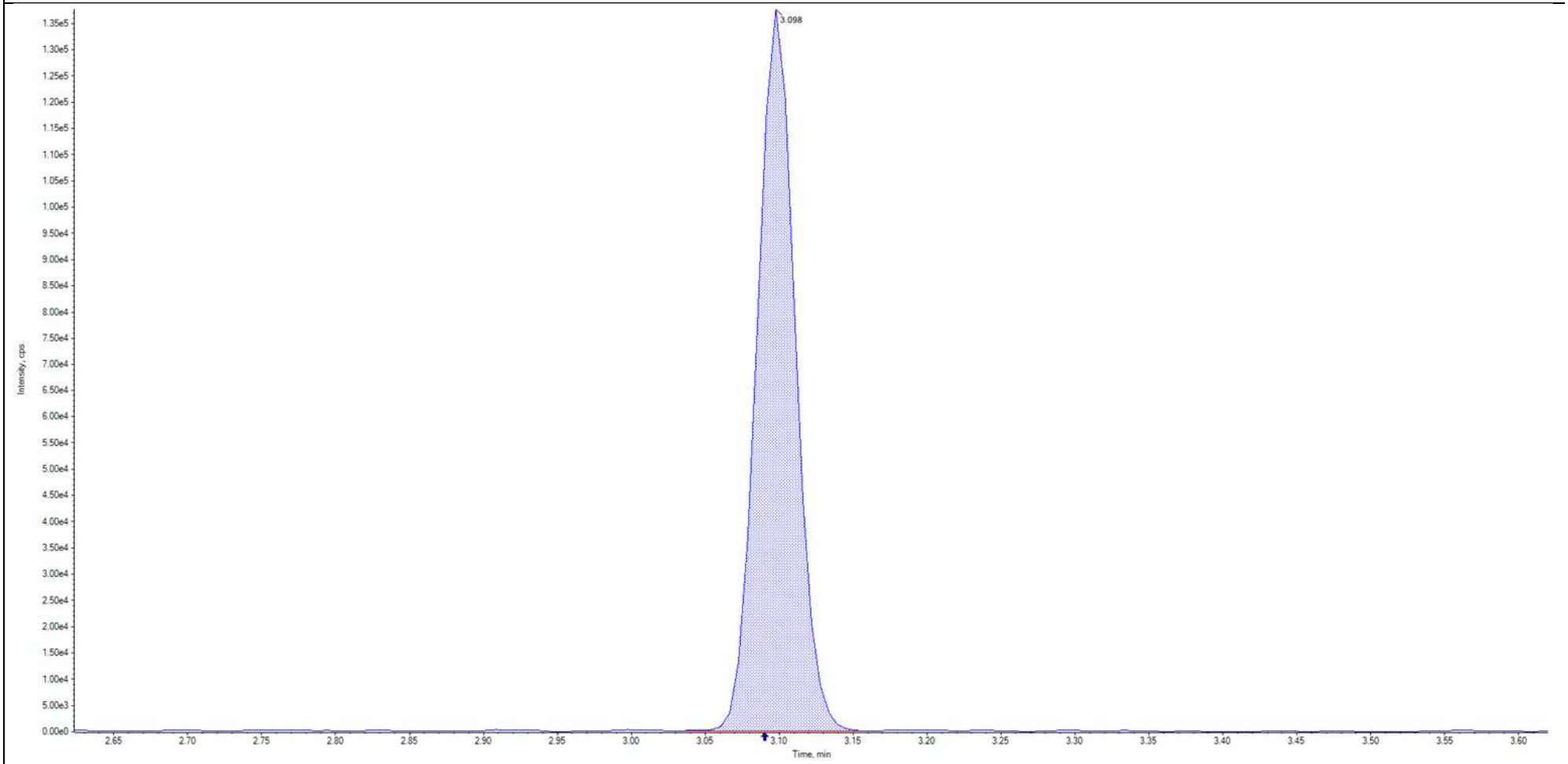
13C2-PFTeDA
Sample: L2512271-01R



13C3-PFBS
Sample: L2512271-01R

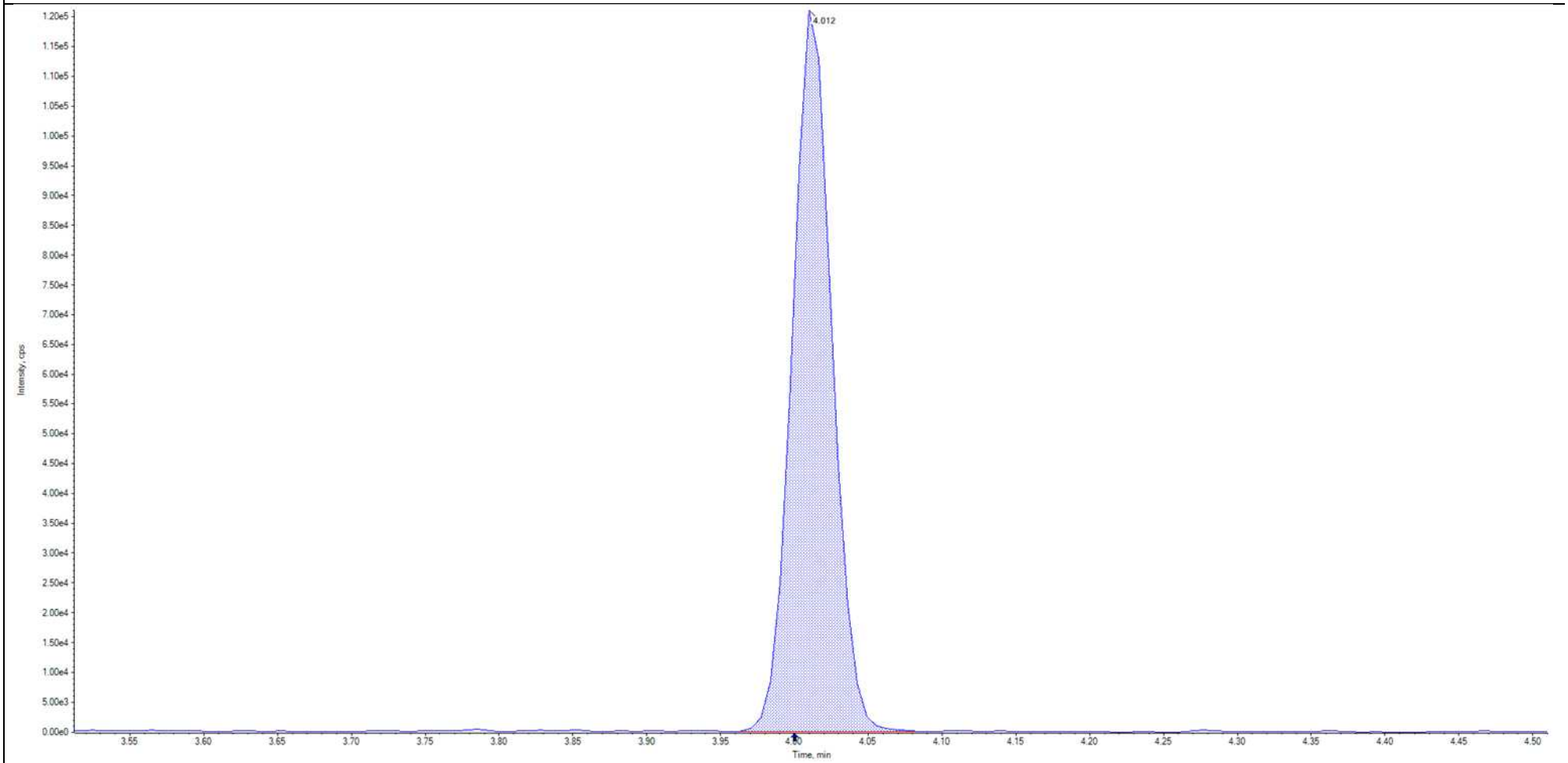


13C3-PFHxS
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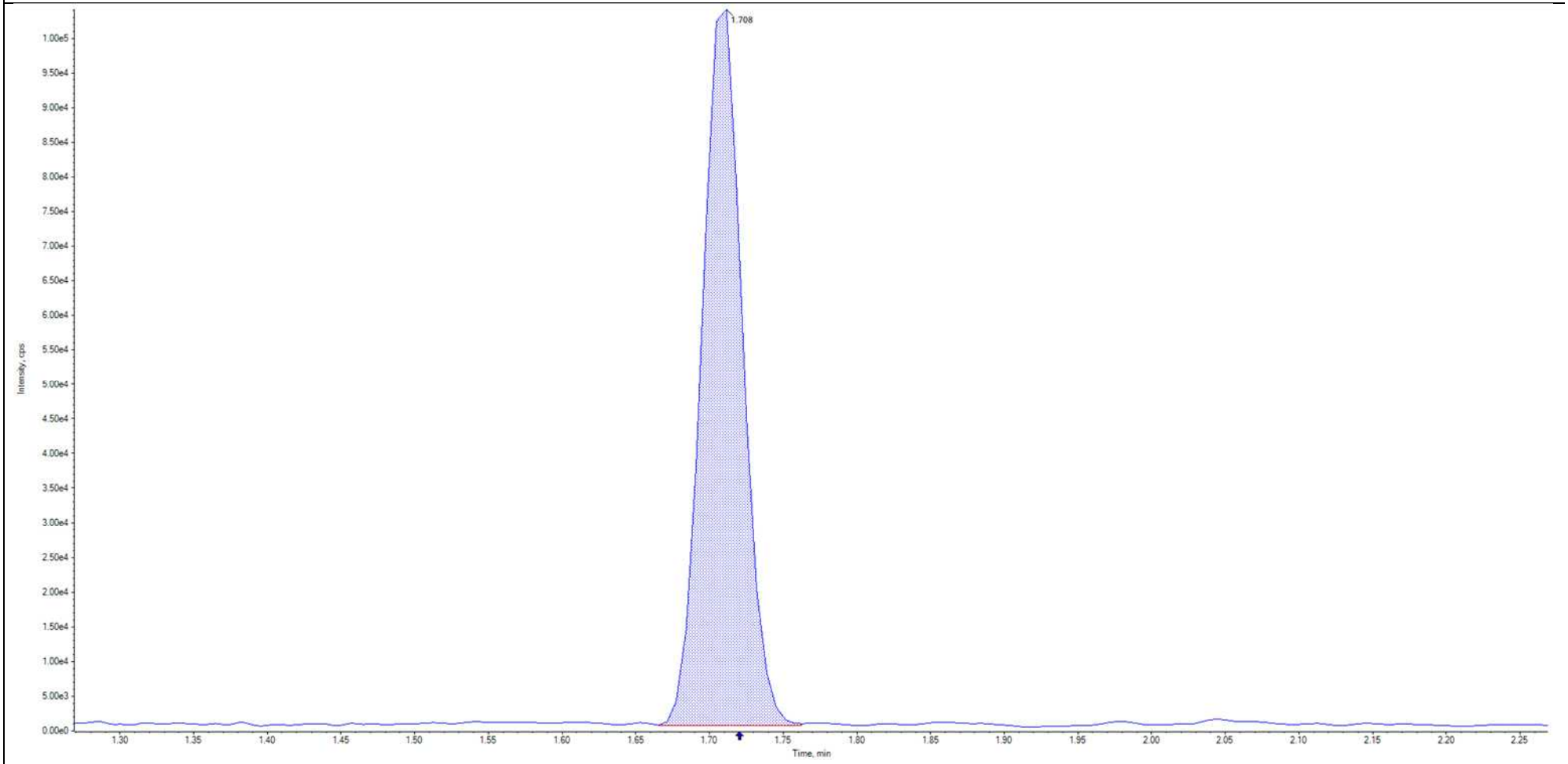


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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13C8-PFOS
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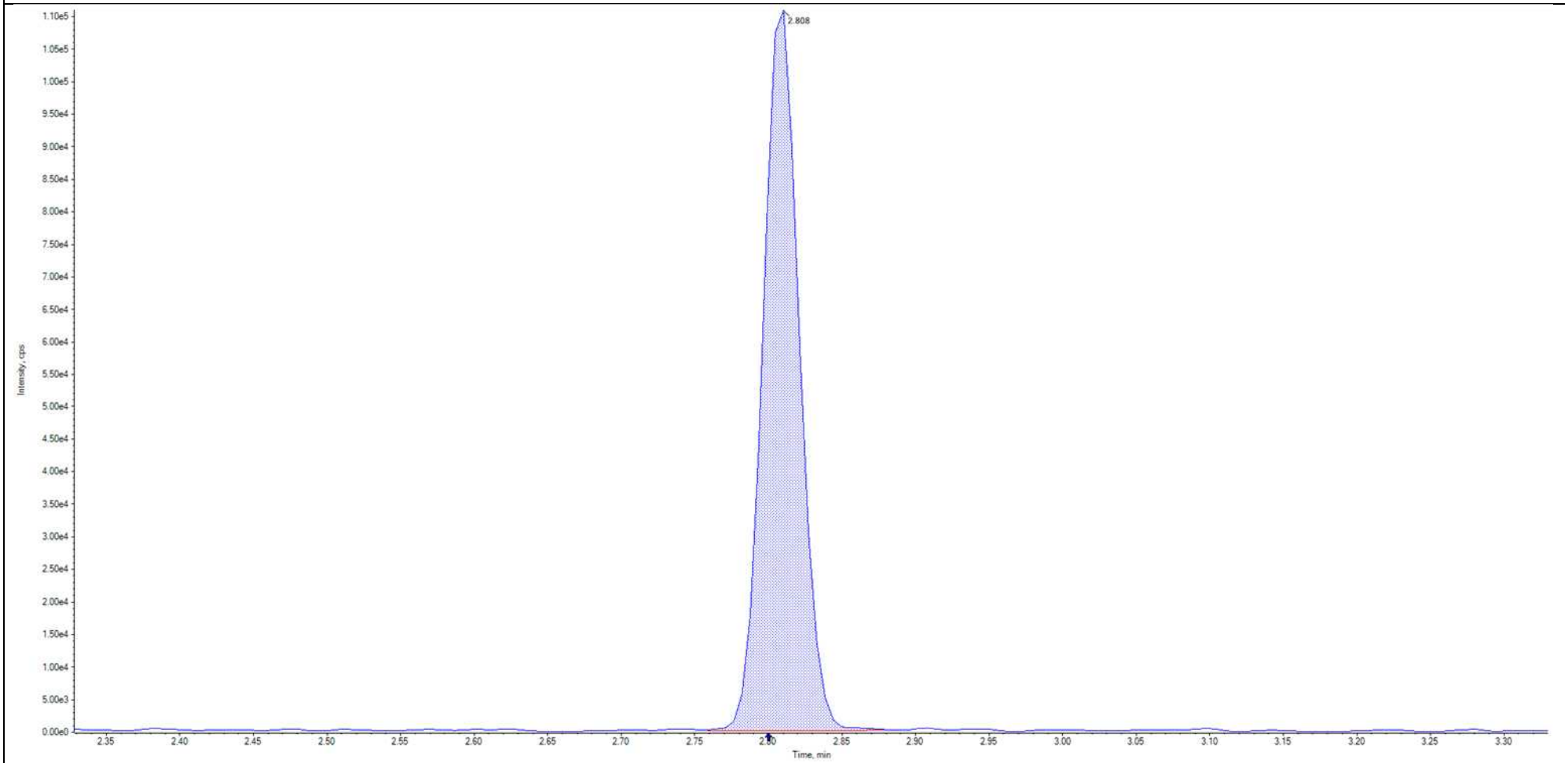


13C2-4:2FTS
Sample: L2512271-01R

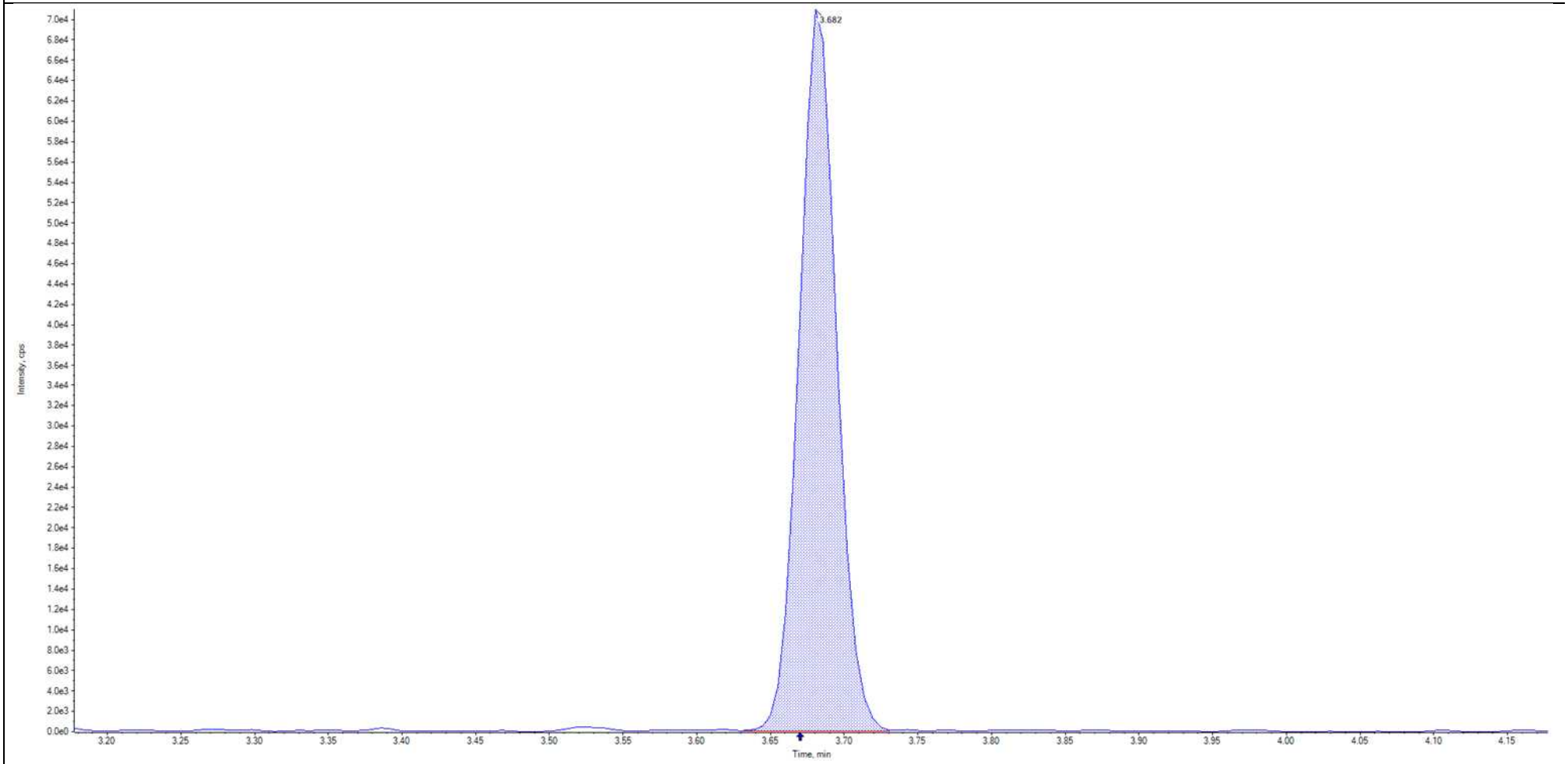


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Alpha Analytical LLC
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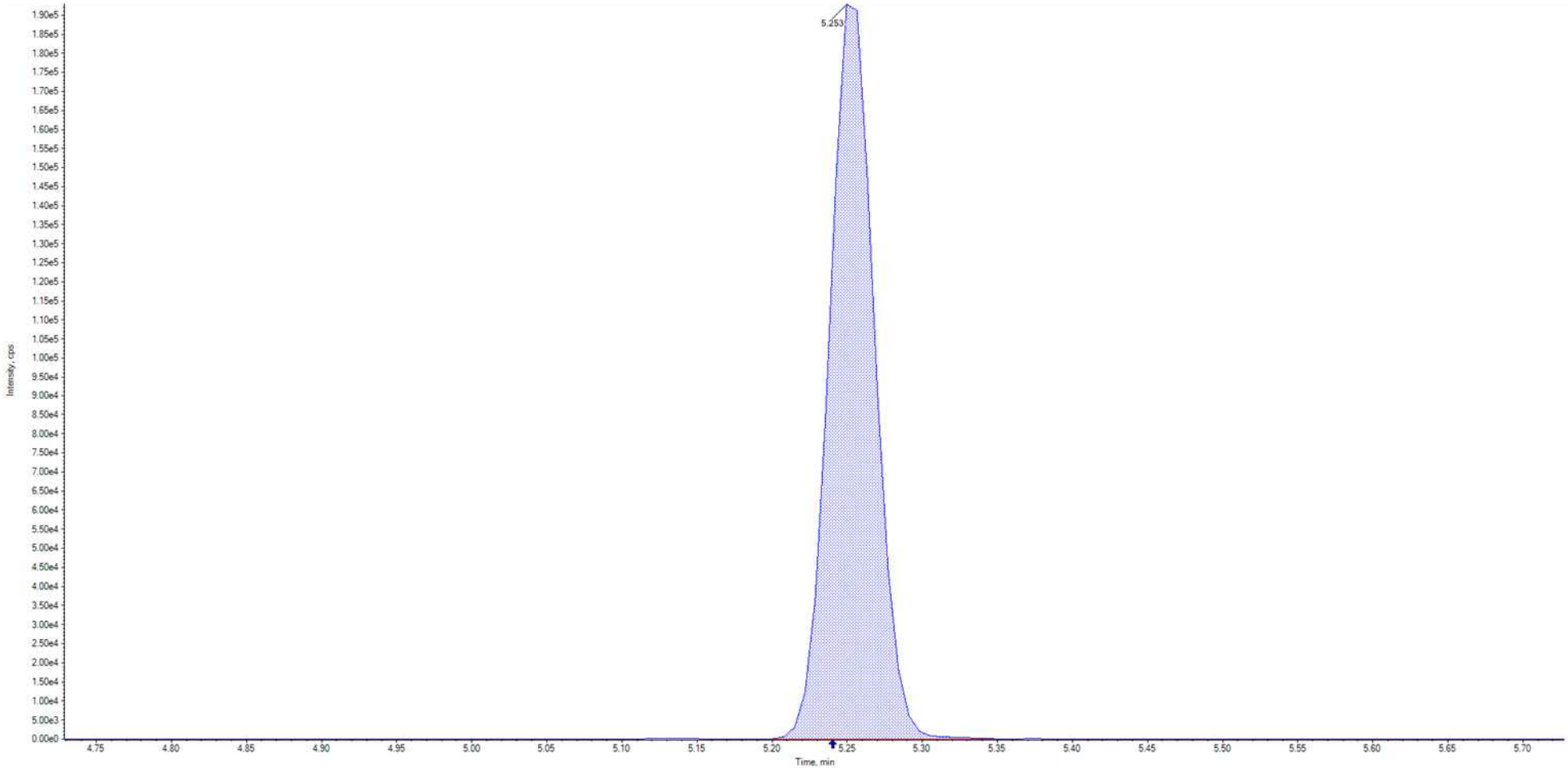
13C2-6:2FTS
Sample: L2512271-01R



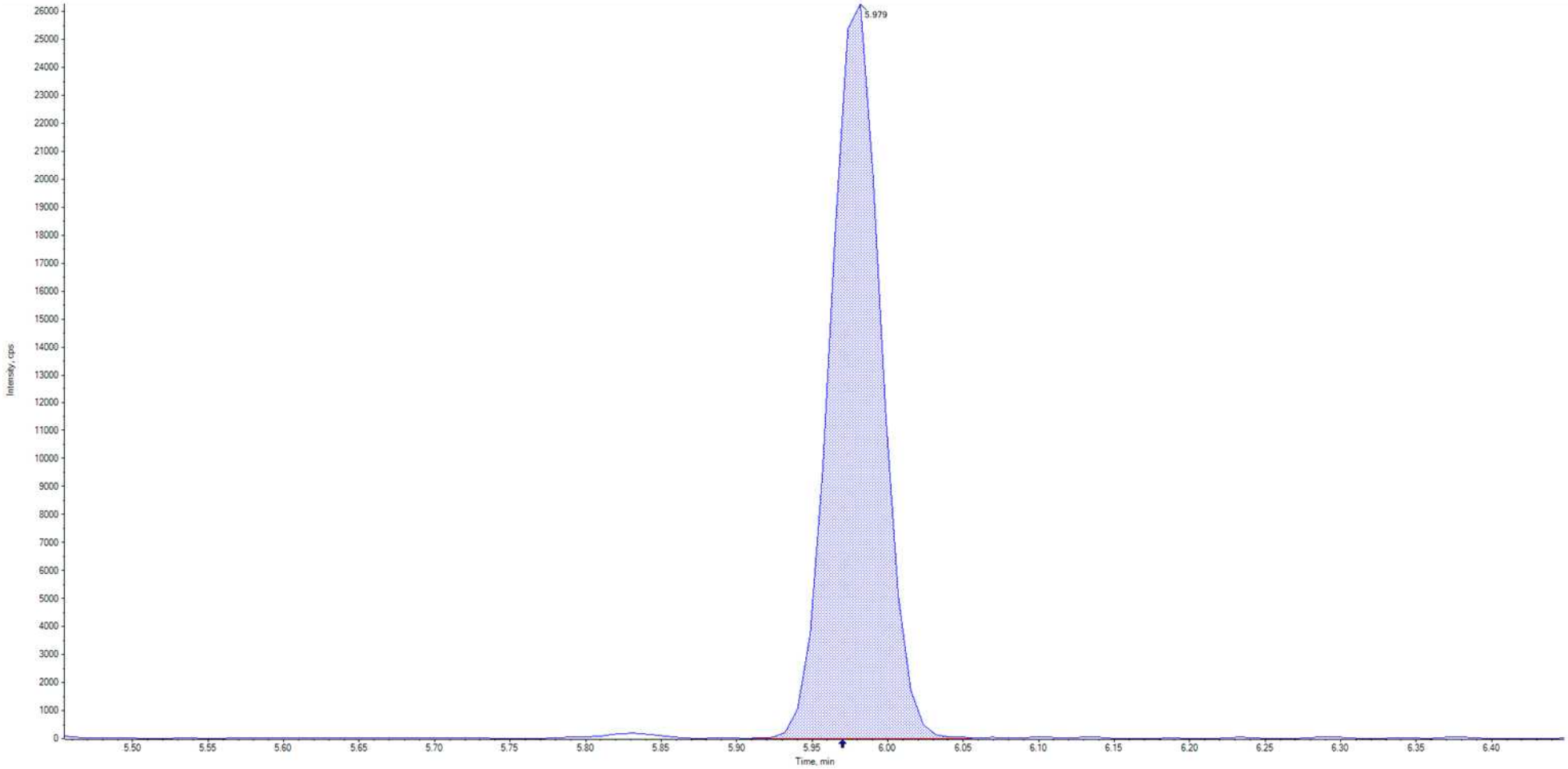
13C2-8:2FTS
Sample: L2512271-01R



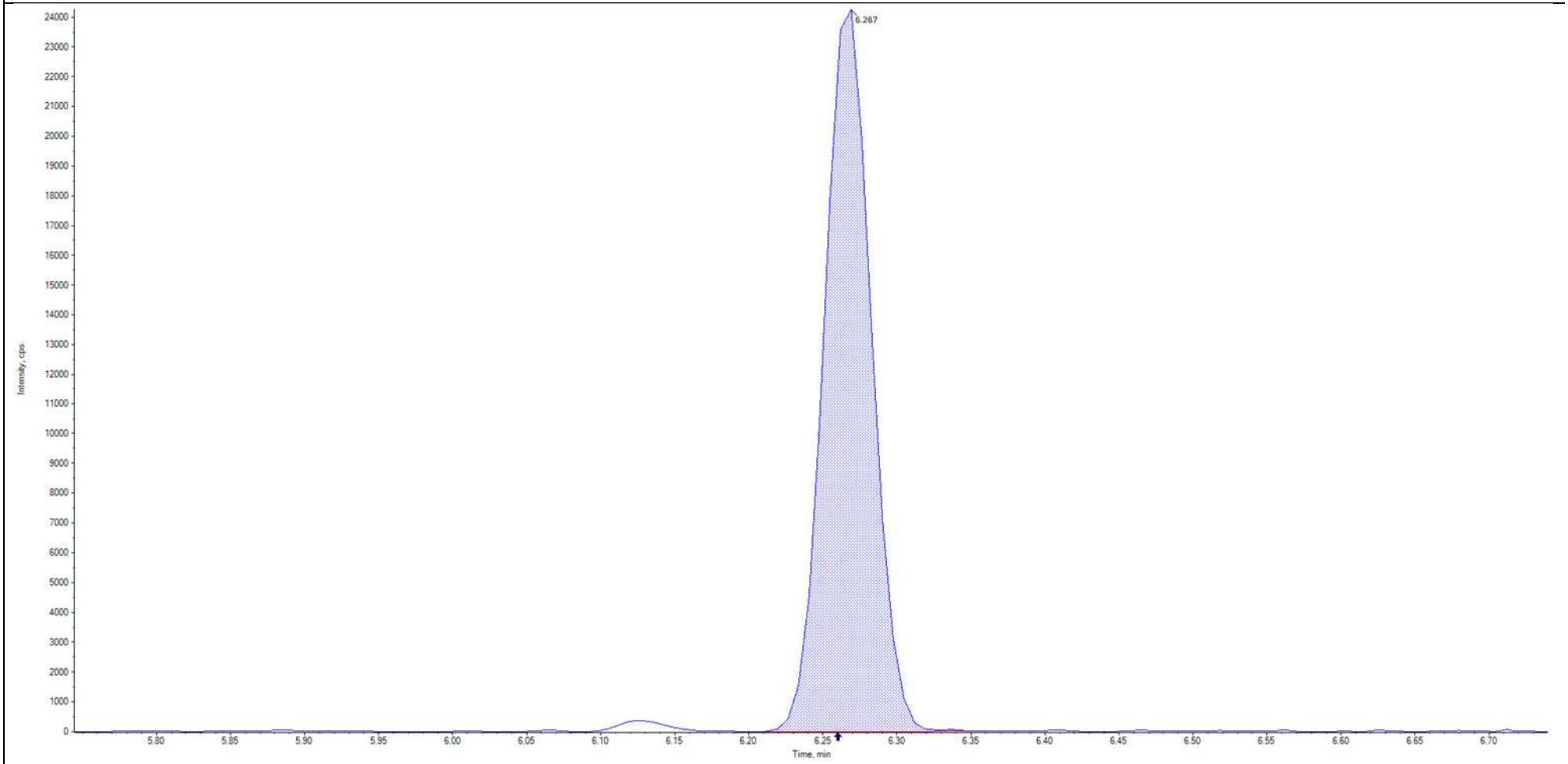
13C8-PFOSA
Sample: L2512271-01R



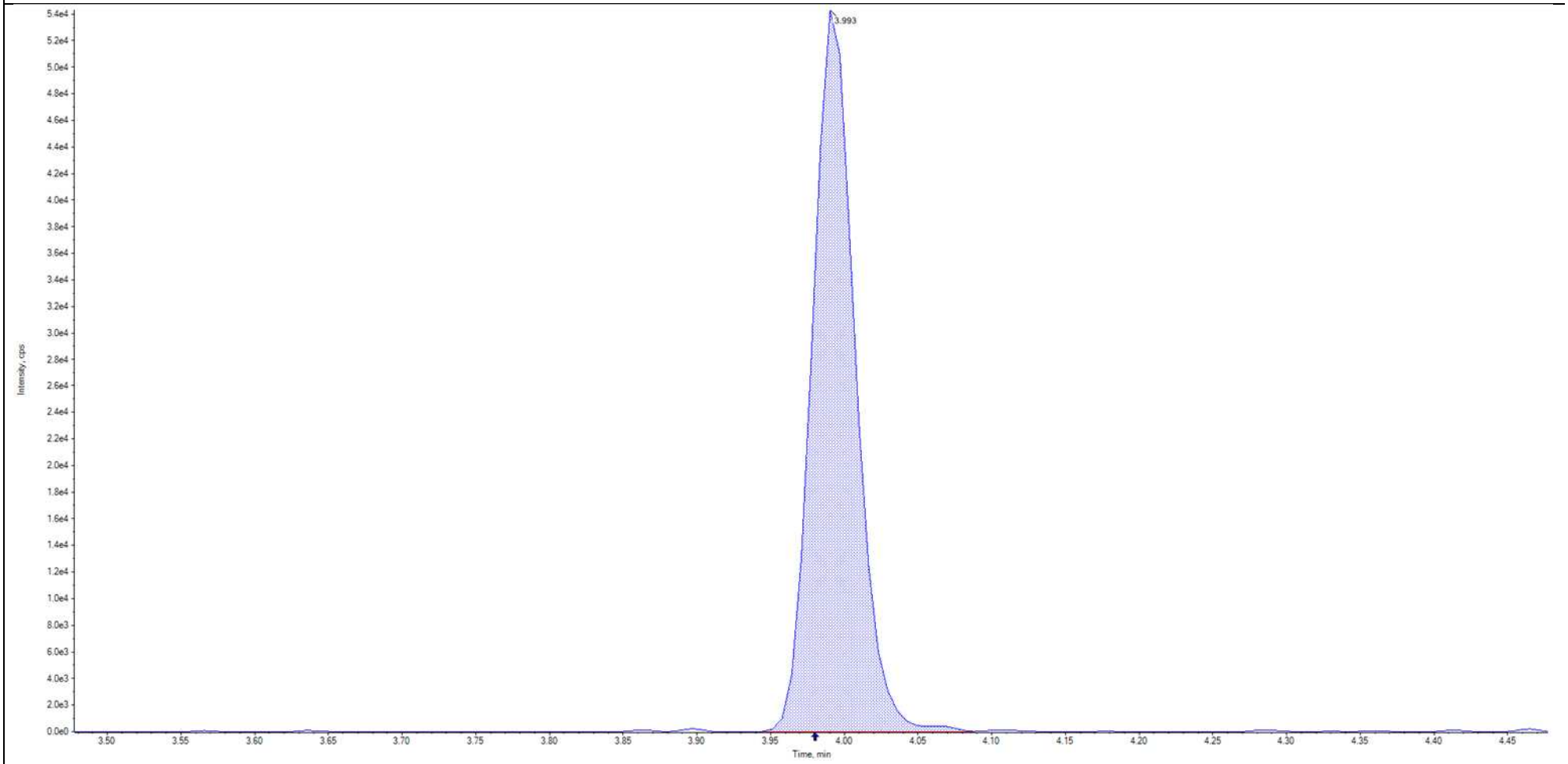
d3-NMeFOSA
Sample: L2512271-01R



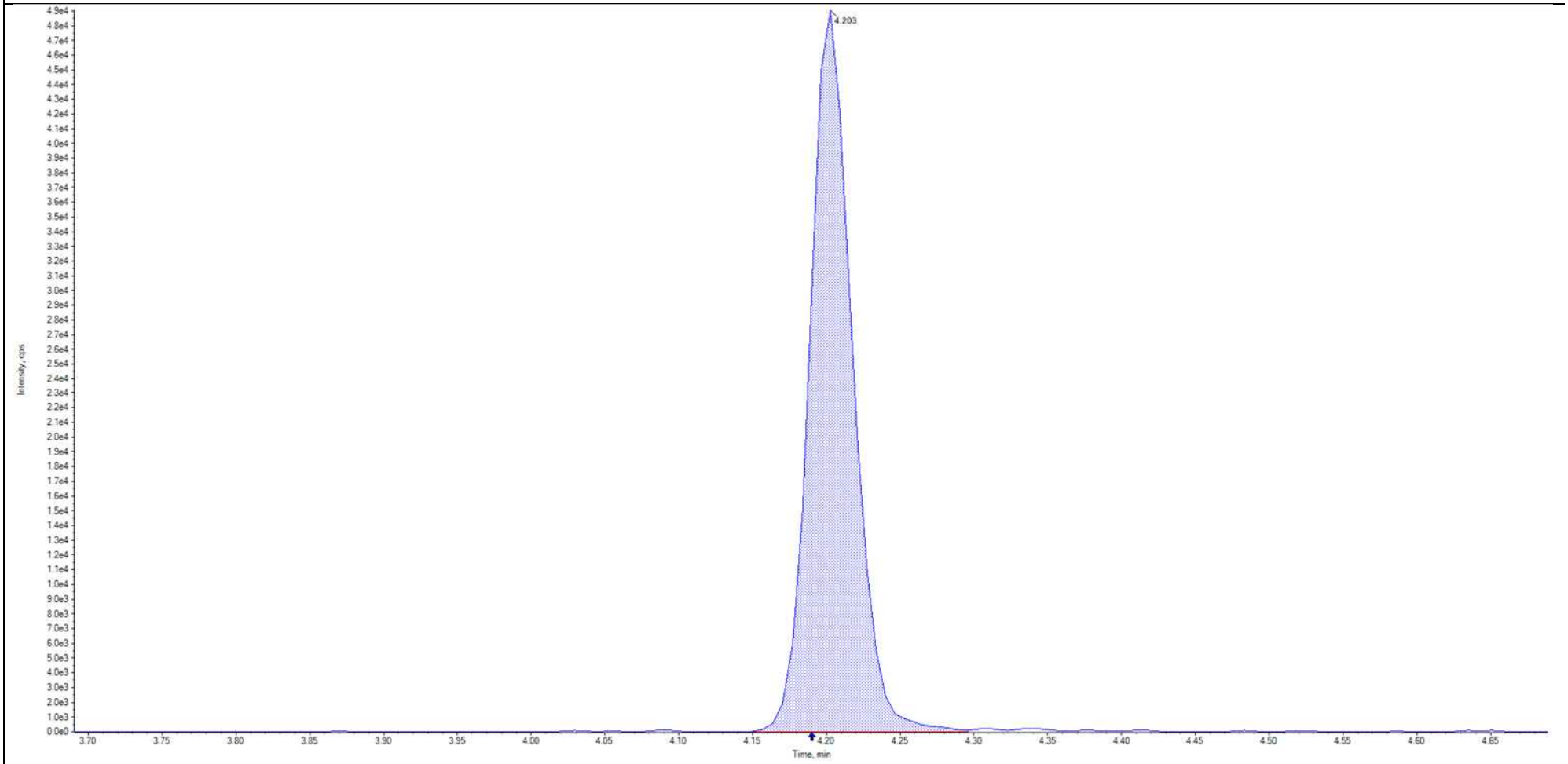
d5-NEtFOSA
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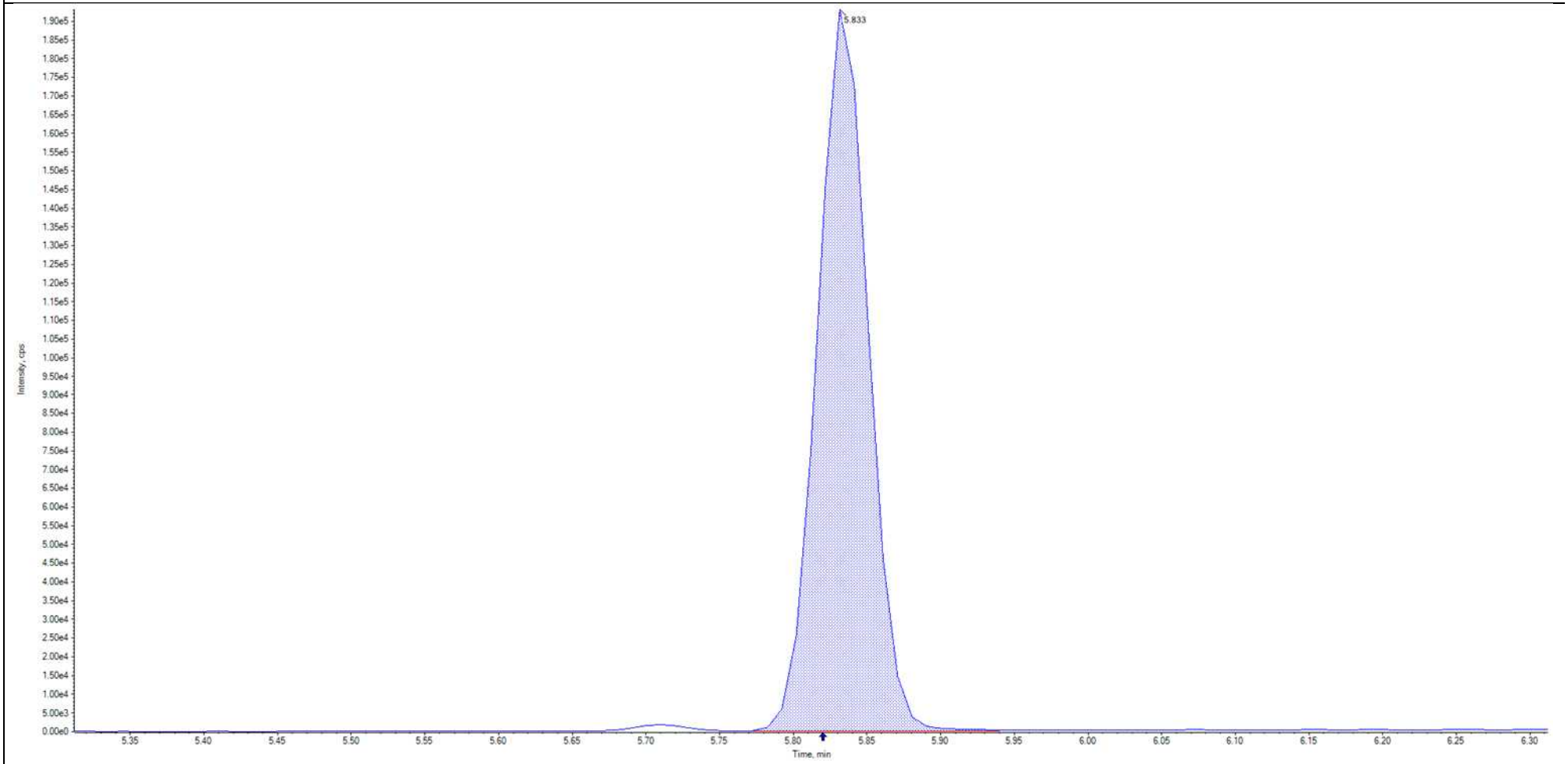
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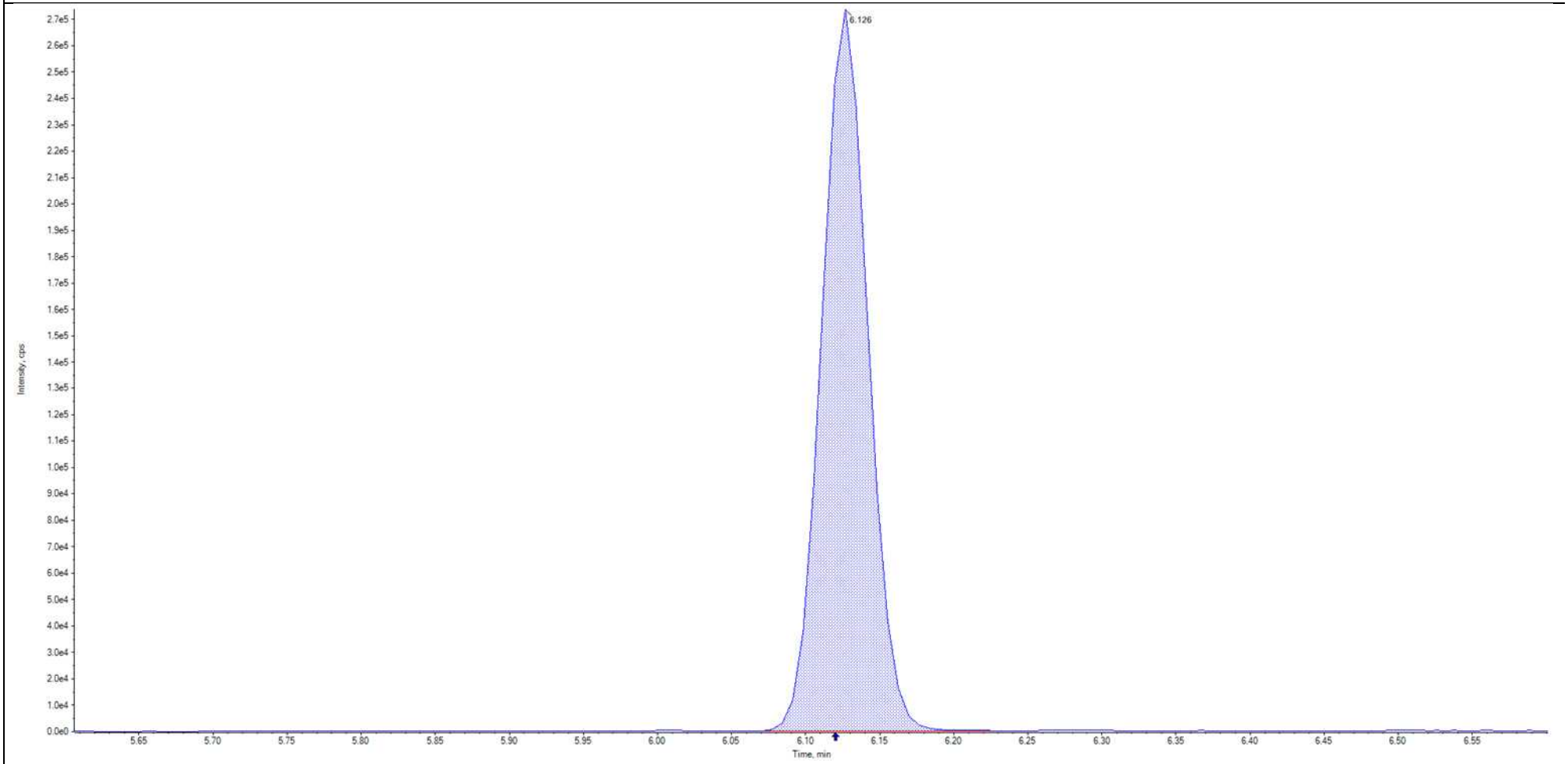
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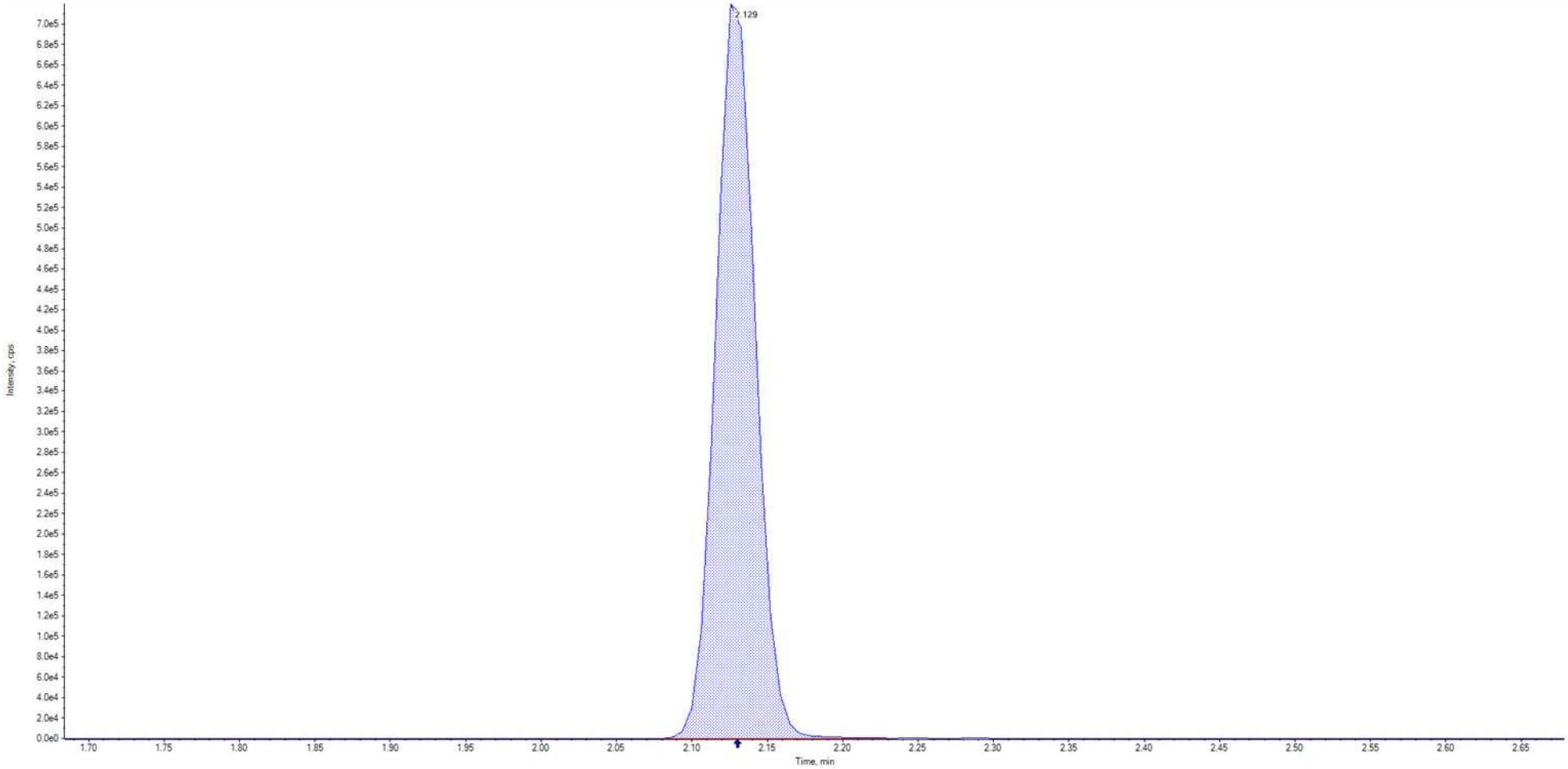
d7-NMeFOSE
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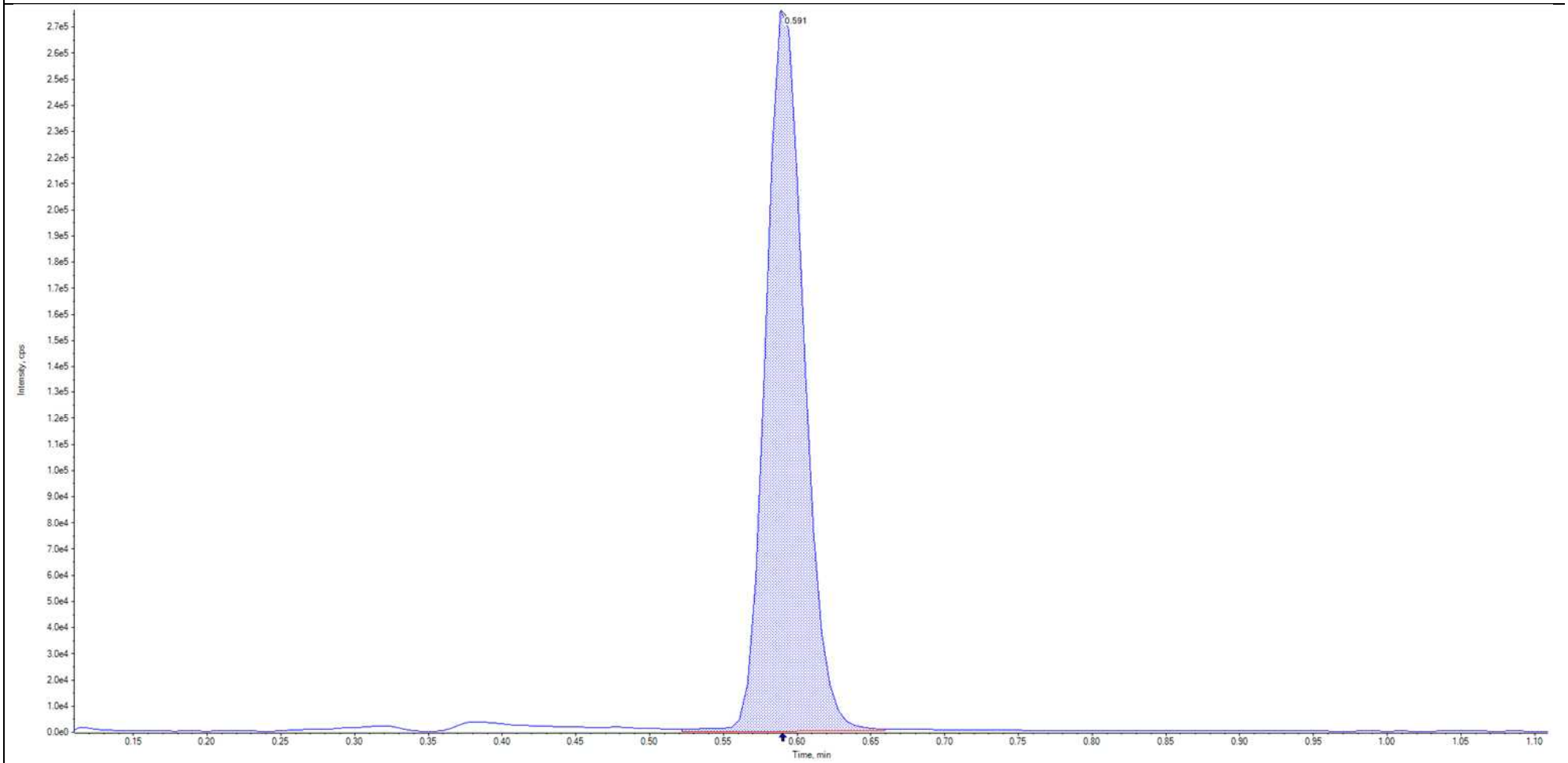
d9-NEtFOSE
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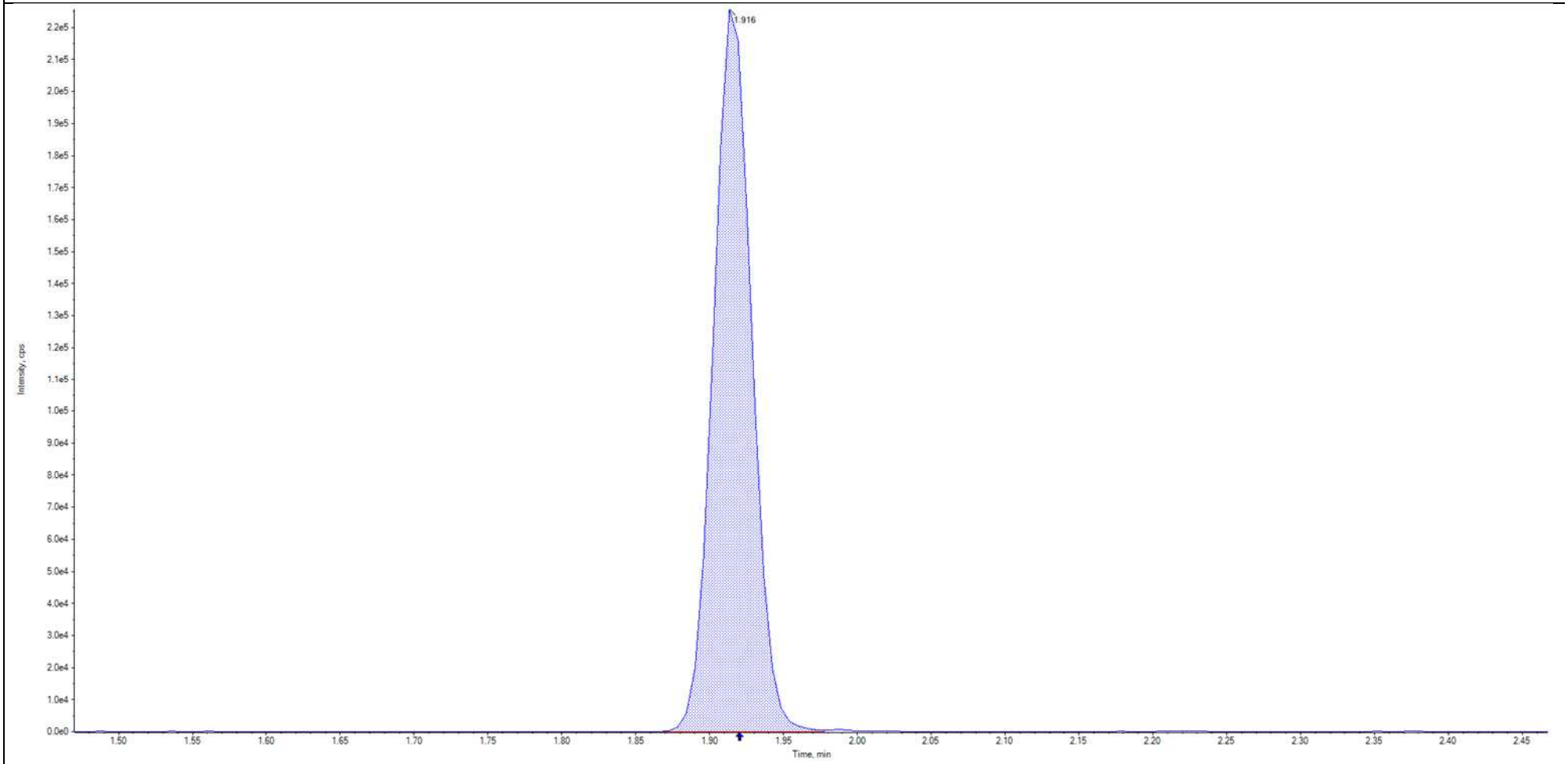
13C3-HFPO-DA
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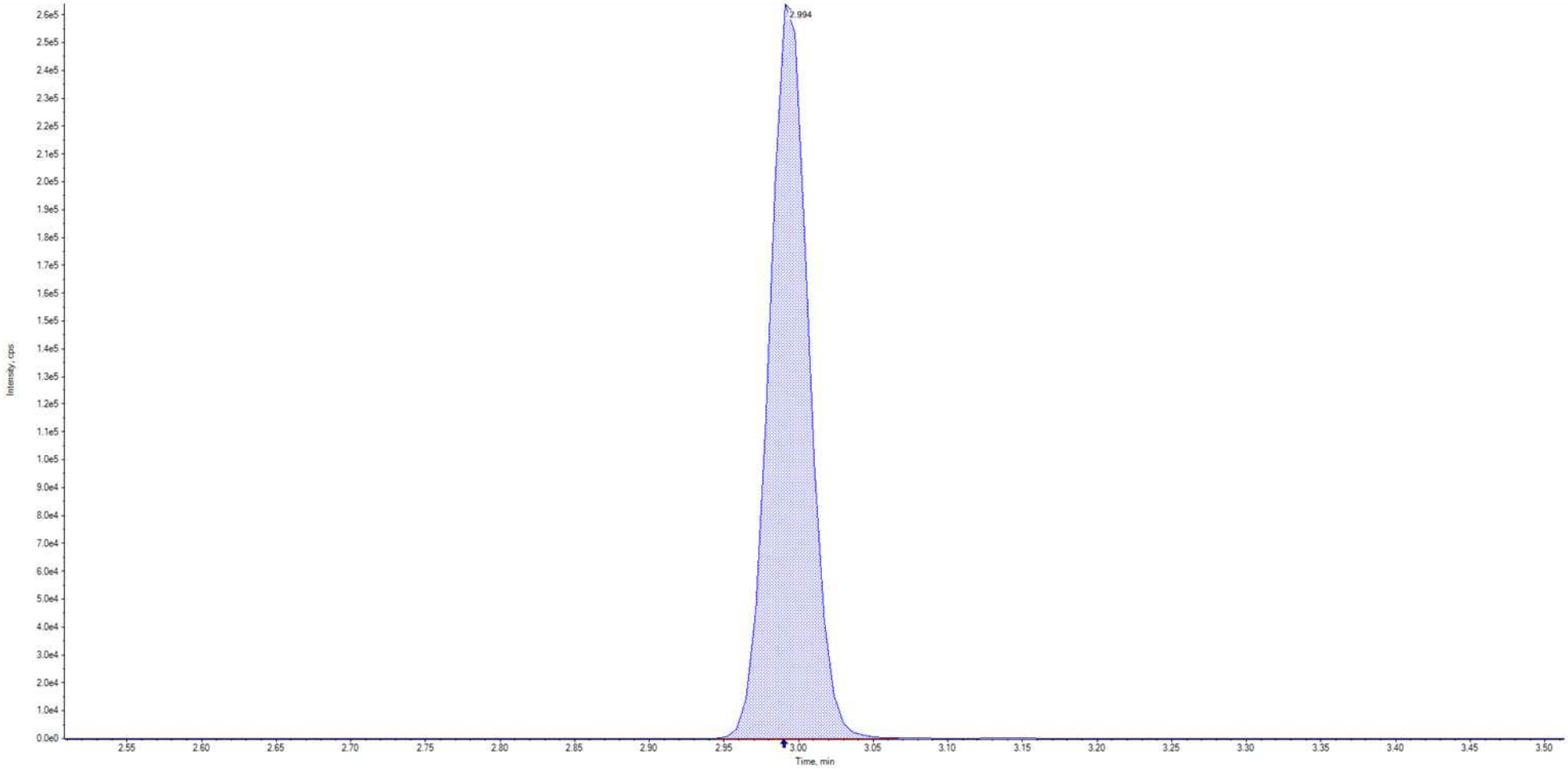
13C3-PFBA
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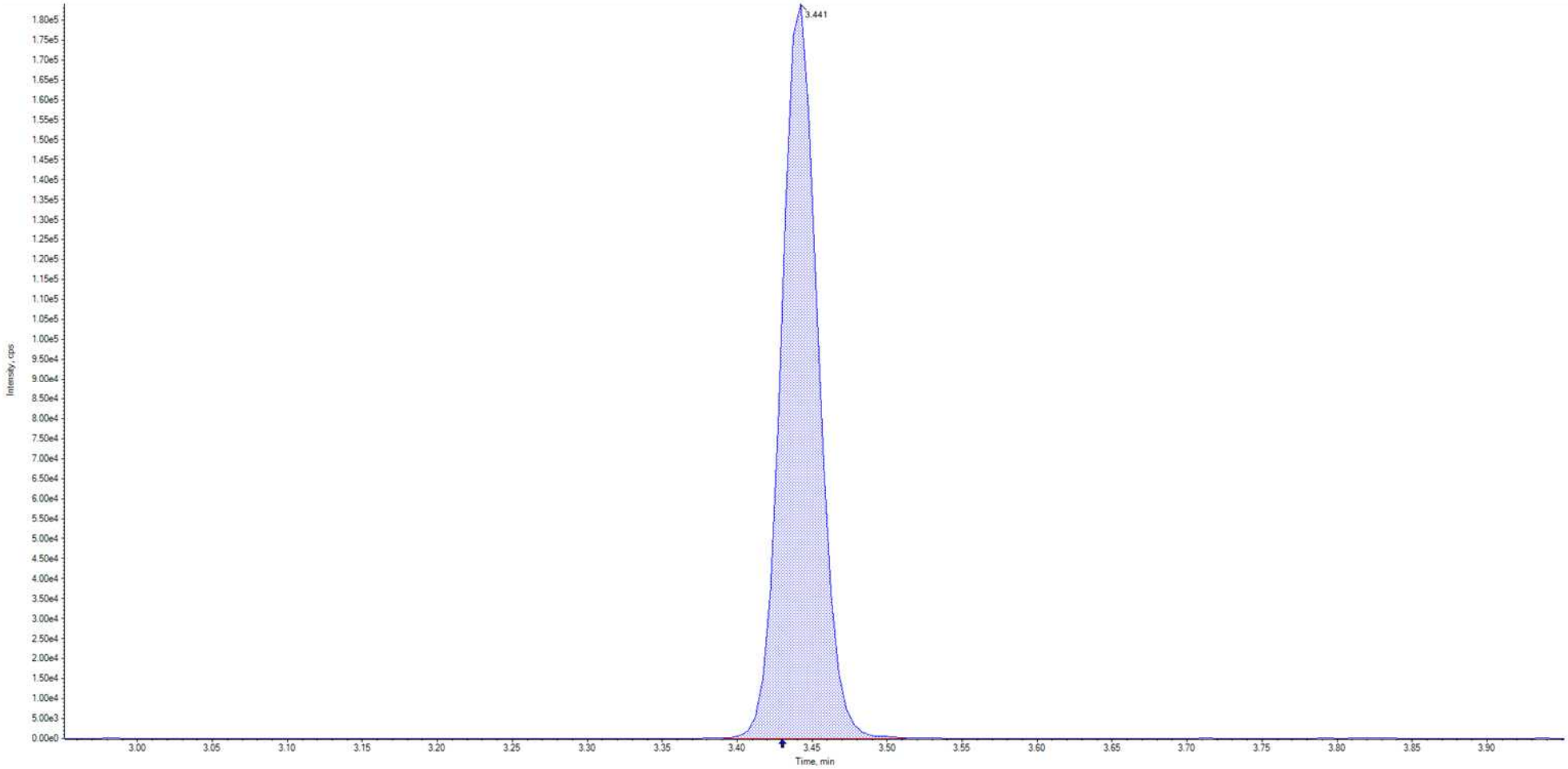
13C2-PFHxA
Sample: L2512271-01R



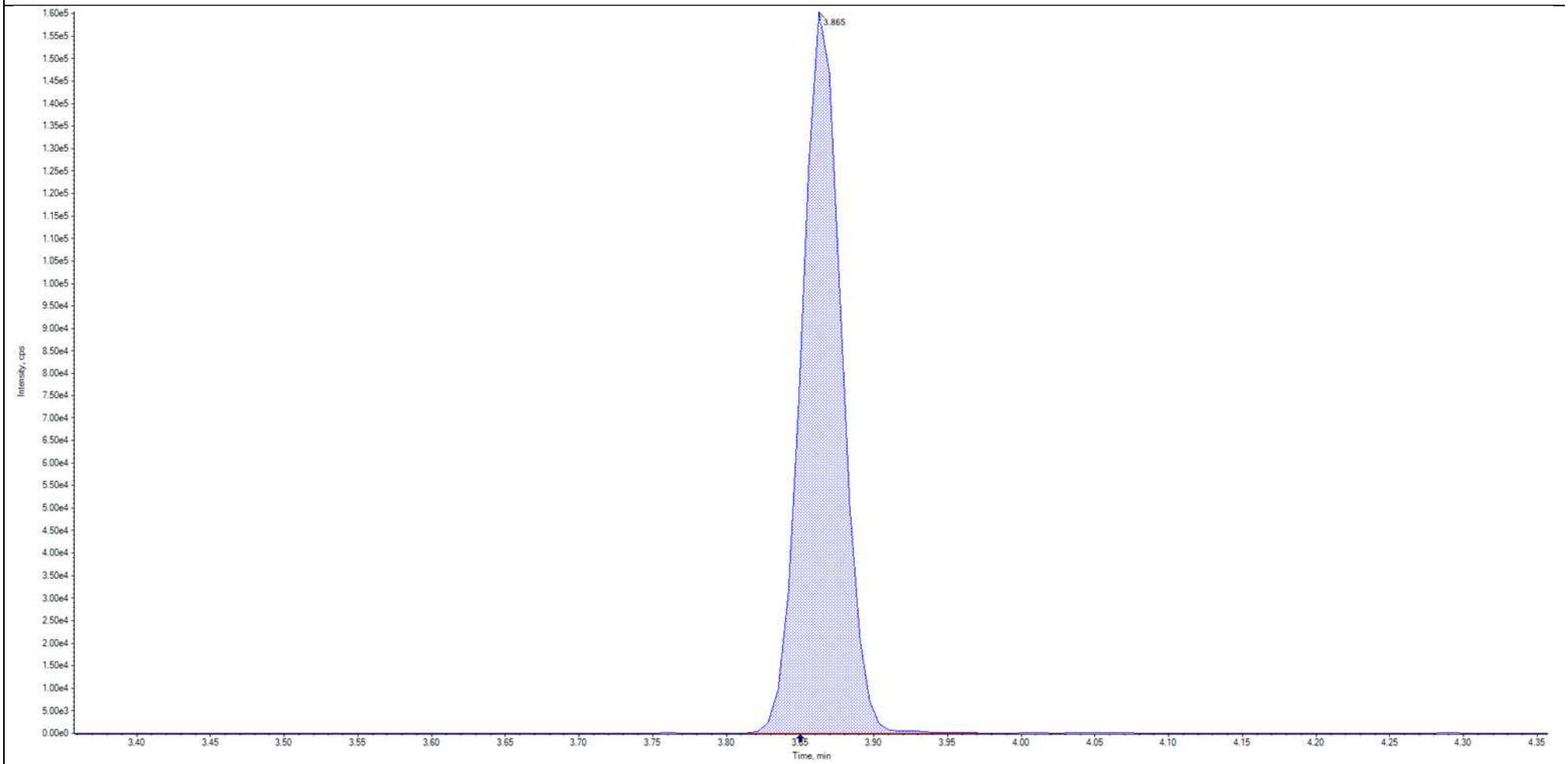
13C4-PFOA
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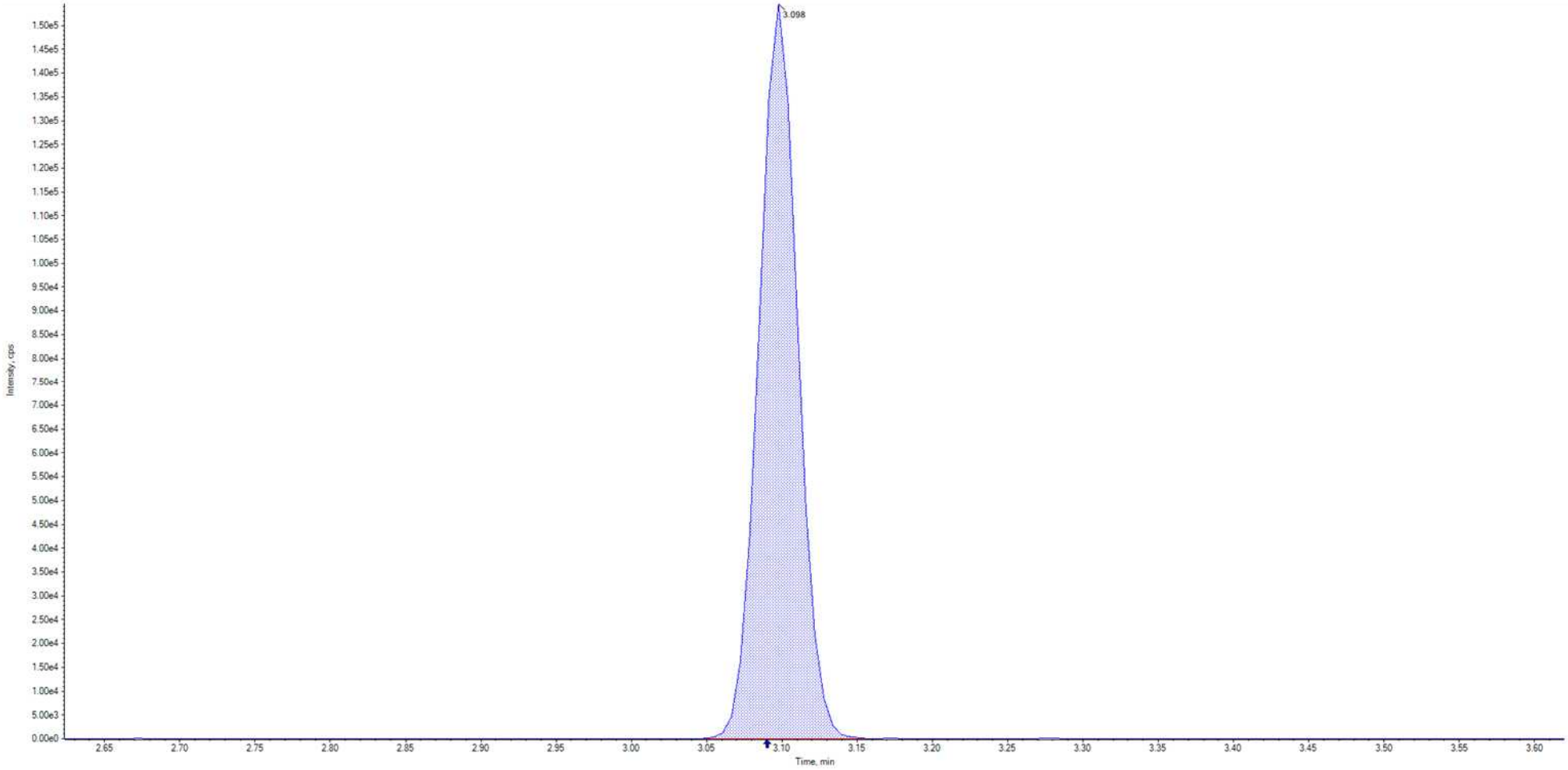
13C5-PFNA
Sample: L2512271-01R



13C2-PFDA
Sample: L2512271-01R

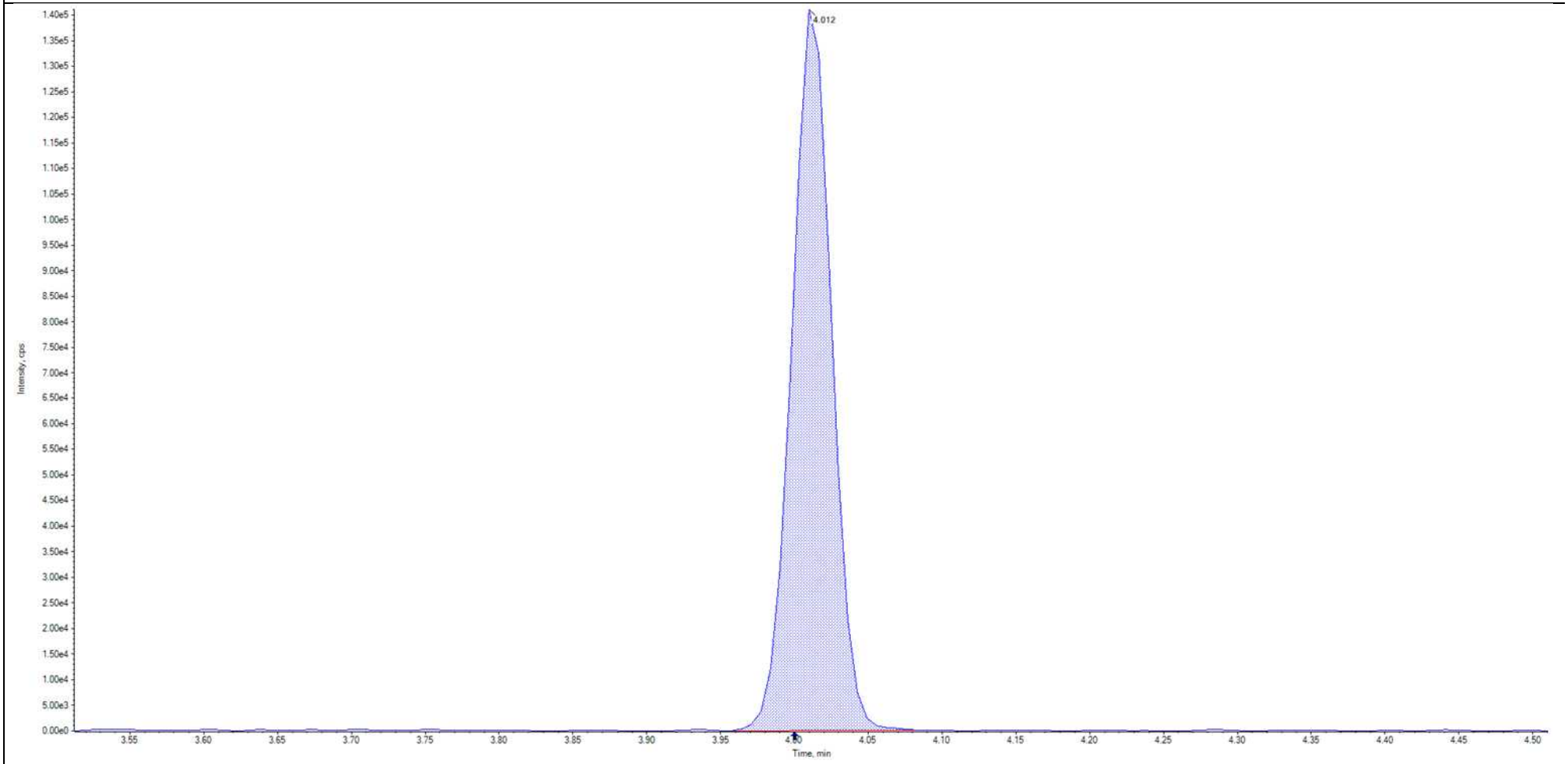


18O2-PFHxS
Sample: L2512271-01R



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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13C4-PFOS
Sample: L2512271-01R



Alpha Analytical LLC
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Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

ID: L2512271-02R
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Date & Time: 2025-03-11T13:28:52
Description: WG2038851,WG2038443,ICAL22044
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	N/A	213.0 / 169.0	N/A		N/A	N/A	N/A	N/A	N/A
2	PFPeA	2706-90-3	N/A	263.0 / 219.0	N/A		N/A	N/A	N/A	N/A	N/A
3	PFPeA_2	2706-90-3	N/A	263.0 / 68.9	N/A		N/A	N/A	N/A	N/A	N/A
4	PFHxA	307-24-4	N/A	313.0 / 269.0	N/A		N/A	N/A	0.081	N/A	N/A
5	PFHxA_2	307-24-4	N/A	313.0 / 119.0	N/A		N/A	N/A	0.081	N/A	N/A
6	PFHpA	375-85-9	N/A	363.1 / 319.0	N/A		N/A	N/A	0.373	N/A	N/A
7	PFHpA_2	375-85-9	N/A	363.1 / 169.0	N/A		N/A	N/A	0.373	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	N/A	413.1 / 369.1	N/A		N/A	N/A	0.424	N/A	N/A
9	PFOA_2	335-67-1	N/A	413.1 / 169.0	N/A		N/A	N/A	0.424	N/A	N/A
10	PFNA	375-95-1	N/A	462.8 / 418.9	N/A		N/A	N/A	0.493	N/A	N/A
11	PFNA_2	375-95-1	N/A	462.8 / 219.0	N/A		N/A	N/A	0.493	N/A	N/A
12	PFDA	335-76-2	N/A	513.1 / 469.1	N/A		N/A	N/A	0.188	N/A	N/A
13	PFDA_2	335-76-2	N/A	513.1 / 219.0	N/A		N/A	N/A	0.188	N/A	N/A
14	PFUnA	2058-94-8	N/A	563.1 / 519.1	N/A		N/A	N/A	0.146	N/A	N/A
15	PFUnA_2	2058-94-8	N/A	563.1 / 269.0	N/A		N/A	N/A	0.146	N/A	N/A
16	PFDoA	307-55-1	N/A	613.1 / 569.1	N/A		N/A	N/A	0.142	N/A	N/A
17	PFDoA_2	307-55-1	N/A	613.1 / 319.0	N/A		N/A	N/A	0.142	N/A	N/A
18	PFTrDA	72629-94-8	N/A	663.1 / 619.1	N/A		N/A	N/A	0.152	N/A	N/A
19	PFTrDA_2	72629-94-8	N/A	663.1 / 169.0	N/A		N/A	N/A	0.152	N/A	N/A
20	PFTeDA	376-06-7	N/A	713.1 / 669.1	N/A		N/A	N/A	0.154	N/A	N/A
21	PFTeDA_2	376-06-7	N/A	713.1 / 169.0	N/A		N/A	N/A	0.154	N/A	N/A
22	PFBS	375-73-5	N/A	299.1 / 80.1	N/A		N/A	N/A	0.374	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	N/A	299.1 / 99.1	N/A		N/A	N/A	0.374	N/A	N/A
24	PFPeS	2706-91-4	N/A	349.1 / 80.1	N/A		N/A	N/A	0.314	N/A	N/A
25	PFPeS_2	2706-91-4	N/A	349.1 / 99.1	N/A		N/A	N/A	0.314	N/A	N/A
26	PFHxS	355-46-4	N/A	399.1 / 80.1	N/A		N/A	N/A	0.306	N/A	N/A
27	PFHxS_2	355-46-4	N/A	399.1 / 99.1	N/A		N/A	N/A	0.306	N/A	N/A
28	PFHpS	375-92-8	N/A	449.1 / 80.1	N/A		N/A	N/A	0.316	N/A	N/A
29	PFHpS_2	375-92-8	N/A	449.1 / 99.1	N/A		N/A	N/A	0.316	N/A	N/A
30	PFOS	1763-23-1	N/A	499.1 / 80.1	N/A		N/A	N/A	0.244	N/A	N/A
31	PFOS_2	1763-23-1	N/A	499.1 / 99.1	N/A		N/A	N/A	0.244	N/A	N/A
32	PFNS	68259-12-1	N/A	549.1 / 80.1	N/A		N/A	N/A	0.294	N/A	N/A
33	PFNS_2	68259-12-1	N/A	549.1 / 99.1	N/A		N/A	N/A	0.294	N/A	N/A
34	PFDS	335-77-3	N/A	599.1 / 80.1	N/A		N/A	N/A	0.290	N/A	N/A
35	PFDS_2	335-77-3	N/A	599.1 / 99.1	N/A		N/A	N/A	0.290	N/A	N/A
36	PFDoS	79780-39-5	N/A	699.2 / 80.1	N/A		N/A	N/A	0.256	N/A	N/A
37	PFDoS_2	79780-39-5	N/A	699.2 / 99.1	N/A		N/A	N/A	0.256	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	N/A	327.1 / 307.1	N/A		N/A	N/A	0.650	N/A	N/A
39	4:2FTS_2	757124-72-4	N/A	327.1 / 81.1	N/A		N/A	N/A	0.650	N/A	N/A
40	6:2FTS	27619-97-2	N/A	427.2 / 407.2	N/A		N/A	N/A	0.620	N/A	N/A
41	6:2FTS_2	27619-97-2	N/A	427.2 / 81.1	N/A		N/A	N/A	0.620	N/A	N/A
42	8:2FTS	39108-34-4	N/A	527.2 / 507.2	N/A		N/A	N/A	0.676	N/A	N/A
43	8:2FTS_2	39108-34-4	N/A	527.2 / 81.1	N/A		N/A	N/A	0.676	N/A	N/A
44	PFOSA	754-91-6	N/A	498.1 / 78.1	N/A		N/A	N/A	0.026	N/A	N/A
45	PFOSA_2	754-91-6	N/A	498.1 / 478.0	N/A		N/A	N/A	0.026	N/A	N/A
46	NMeFOSA	31506-32-8	N/A	512.2 / 219.0	N/A		N/A	N/A	1.377	N/A	N/A
47	NMeFOSA_2	31506-32-8	N/A	512.2 / 169.0	N/A		N/A	N/A	1.377	N/A	N/A
48	NEtFOSA	4151-50-2	N/A	526.2 / 219.0	N/A		N/A	N/A	1.292	N/A	N/A
49	NEtFOSA_2	4151-50-2	N/A	526.2 / 169.0	N/A		N/A	N/A	1.292	N/A	N/A
50	NMeFOSAA	2355-31-9	N/A	570.2 / 419.1	N/A		N/A	N/A	0.697	N/A	N/A
51	NMeFOSAA_2	2355-31-9	N/A	570.2 / 483.0	N/A		N/A	N/A	0.697	N/A	N/A
52	NEtFOSAA	2991-50-6	N/A	584.2 / 419.1	N/A		N/A	N/A	0.557	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	N/A	584.2 / 526.2	N/A		N/A	N/A	0.557	N/A	N/A
54	NMeFOSE	24448-09-7	N/A	616.1 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
55	NEtFOSE	1691-99-2	N/A	630.0 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
56	HFPO-DA	13252-13-6	N/A	285.0 / 169.0	N/A		N/A	N/A	0.501	N/A	N/A
57	HFPO-DA_2	13252-13-6	N/A	285.0 / 184.9	N/A		N/A	N/A	0.501	N/A	N/A
58	ADONA	919005-14-4	N/A	376.9 / 251.0	N/A		N/A	N/A	0.691	N/A	N/A
59	ADONA_2	919005-14-4	N/A	376.9 / 84.8	N/A		N/A	N/A	0.691	N/A	N/A
60	9Cl-PF3ONS	756426-58-1	N/A	530.8 / 351.1	N/A		N/A	N/A	0.332	N/A	N/A
61	9Cl-PF3ONS_2	756426-58-1	N/A	532.8 / 353.0	N/A		N/A	N/A	0.332	N/A	N/A
62	11Cl-PF3OUdS	763051-92-9	N/A	630.9 / 451.0	N/A		N/A	N/A	0.322	N/A	N/A
63	11Cl-PF3OUdS_2	763051-92-9	N/A	632.9 / 452.9	N/A		N/A	N/A	0.322	N/A	N/A
64	3:3FTCA	356-02-5	N/A	241.1 / 177.1	N/A		N/A	N/A	1.010	N/A	N/A
65	3:3FTCA_2	356-02-5	N/A	241.1 / 117.0	N/A		N/A	N/A	1.010	N/A	N/A
66	5:3FTCA	914637-49-3	N/A	341.1 / 237.1	N/A		N/A	N/A	1.017	N/A	N/A
67	5:3FTCA_2	914637-49-3	N/A	341.1 / 217.0	N/A		N/A	N/A	1.017	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	N/A	441.1 / 316.9	N/A		N/A	N/A	1.343	N/A	N/A
69	7:3FTCA_2	812-70-4	N/A	441.1 / 337.1	N/A		N/A	N/A	1.343	N/A	N/A
70	PFEESA	113507-82-7	N/A	315.1 / 135.0	N/A		N/A	N/A	0.081	N/A	N/A
71	PFEESA_2	113507-82-7	N/A	315.1 / 82.9	N/A		N/A	N/A	0.081	N/A	N/A
72	PFMPA	377-73-1	N/A	229.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
73	PFMBA	863090-89-5	N/A	279.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
74	NFDHA	151772-58-6	N/A	295.0 / 201.0	N/A		N/A	N/A	0.681	N/A	N/A
75	NFDHA_2	151772-58-6	N/A	295.0 / 84.9	N/A		N/A	N/A	0.681	N/A	N/A
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	N/A	333.2 / 312.1	N/A		N/A	N/A	N/A	N/A	N/A
79	13C2-PFOA	Surr	N/A	415.0 / 370.0	N/A		N/A	N/A	N/A	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.59	217.0 / 172.0	1554135		9.638	NA	NA	NA	96.4

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.17	268.0 / 223.0	702383		4.597	NA	NA	NA	91.9
	13C5-PFHxA	EIS	1.91	318.0 / 273.0	338304		2.355	NA	NA	NA	94.2
	13C4-PFHpA	EIS	2.50	367.0 / 322.0	328597		2.371	NA	NA	NA	94.8
	13C8-PFOA	EIS	2.99	420.8 / 376.0	588899		2.413	NA	NA	NA	96.5
	13C9-PFNA	EIS	3.44	472.0 / 427.0	234855		1.106	NA	NA	NA	88.5
	13C6-PFDA	EIS	3.86	519.0 / 474.0	265562		1.184	NA	NA	NA	94.7
	13C7-PFUnA	EIS	4.27	570.0 / 525.0	256987		1.038	NA	NA	NA	83.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.66	615.1 / 570.0	253210		1.017	NA	NA	NA	81.3
	13C2-PFTeDA	EIS	5.40	715.1 / 670.1	166469		1.031	NA	NA	NA	82.5
	13C3-PFBS	EIS	1.91	302.1 / 80.1	319717		2.126	NA	NA	NA	91.2
	13C3-PFHxS	EIS	3.09	402.1 / 80.1	293588		2.197	NA	NA	NA	92.7
	13C8-PFOS	EIS	4.01	507.1 / 80.1	288097		2.039	NA	NA	NA	84.9
	13C2-4:2FTS	EIS	1.71	329.1 / 81.1	92807		4.185	NA	NA	NA	89.2
	13C2-6:2FTS	EIS	2.81	429.2 / 81.1	83283		4.362	NA	NA	NA	91.6
	13C2-8:2FTS	EIS	3.68	529.2 / 81.1	78357		4.376	NA	NA	NA	91.2

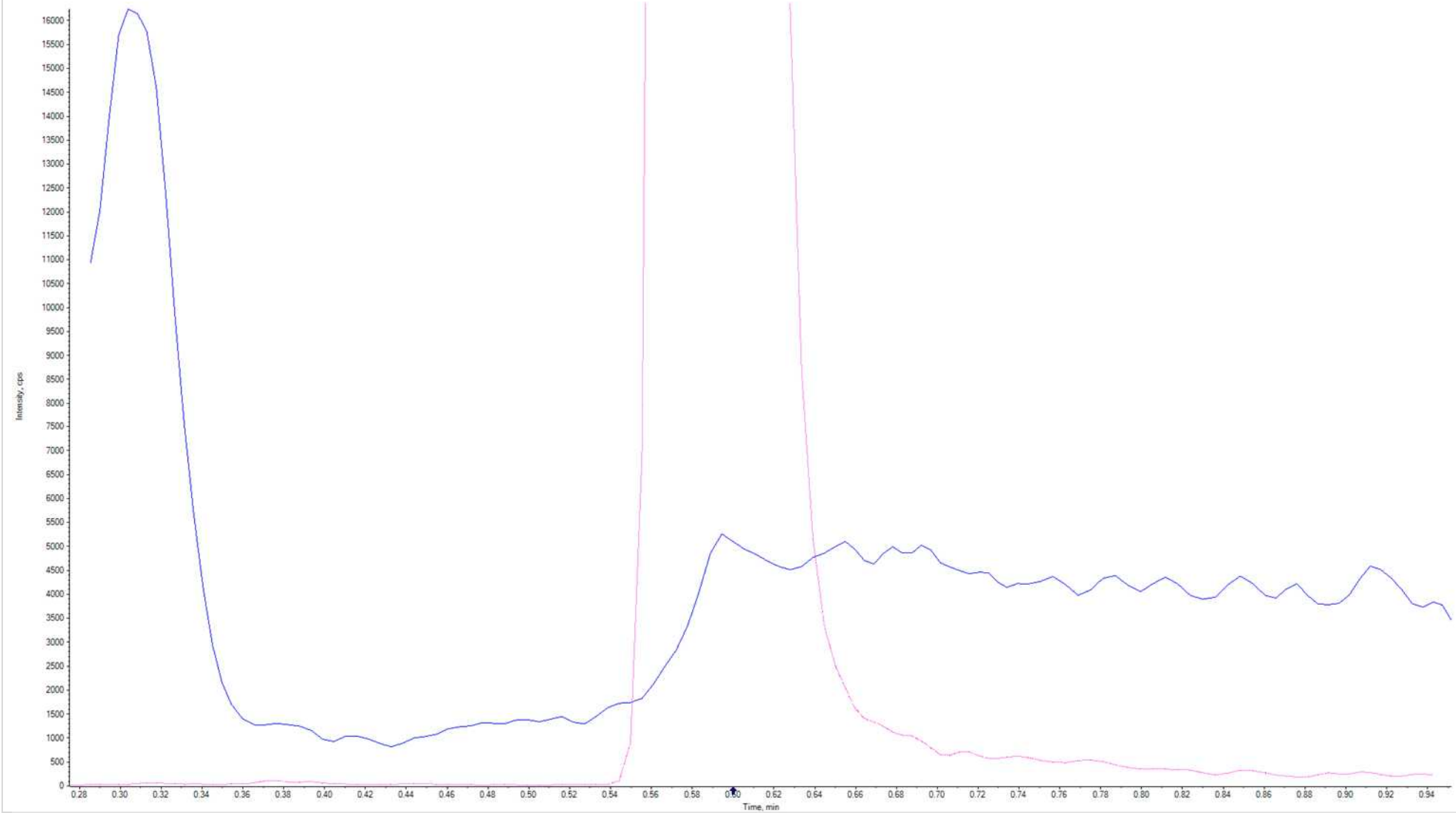
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	13C8-PFOSA	EIS	5.25	506.1 / 78.1	505883		2.255	NA	NA	NA	90.2
	d3-NMeFOSA	EIS	5.98	515.2 / 219.0	77726		1.919	NA	NA	NA	76.7
	d5-NEtFOSA	EIS	6.27	531.2 / 219.0	73428		1.993	NA	NA	NA	79.7
	d3-NMeFOSAA	EIS	3.99	573.2 / 419.1	102436		3.712	NA	NA	NA	74.2
	d5-NEtFOSAA	EIS	4.20	589.3 / 419.1	93042		4.134	NA	NA	NA	82.7
	d7-NMeFOSE	EIS	5.83	623.2 / 58.9	646907		22.201	NA	NA	NA	88.8
	d9-NEtFOSE	EIS	6.12	639.2 / 58.9	877132		22.439	NA	NA	NA	89.8

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.13	287.0 / 169.0	1428191		9.399	NA	NA	NA	94.0
	13C3-PFBA	NIS	0.59	216.0 / 172.0	713533		4.923	NA	NA	NA	98.5
	13C2-PFHxA	NIS	1.91	315.0 / 270.0	423038		2.610	NA	NA	NA	104.4
	13C4-PFOA	NIS	2.99	417.0 / 372.0	370836		2.579	NA	NA	NA	103.2
	13C5-PFNA	NIS	3.44	468.0 / 423.0	265877		1.290	NA	NA	NA	103.2
	13C2-PFDA	NIS	3.86	515.1 / 470.1	261822		1.231	NA	NA	NA	98.5
	18O2-PFHxS	NIS	3.09	403.1 / 84.1	281069		2.388	NA	NA	NA	100.7
	13C4-PFOS	NIS	4.01	503.1 / 80.1	284285		2.365	NA	NA	NA	98.5

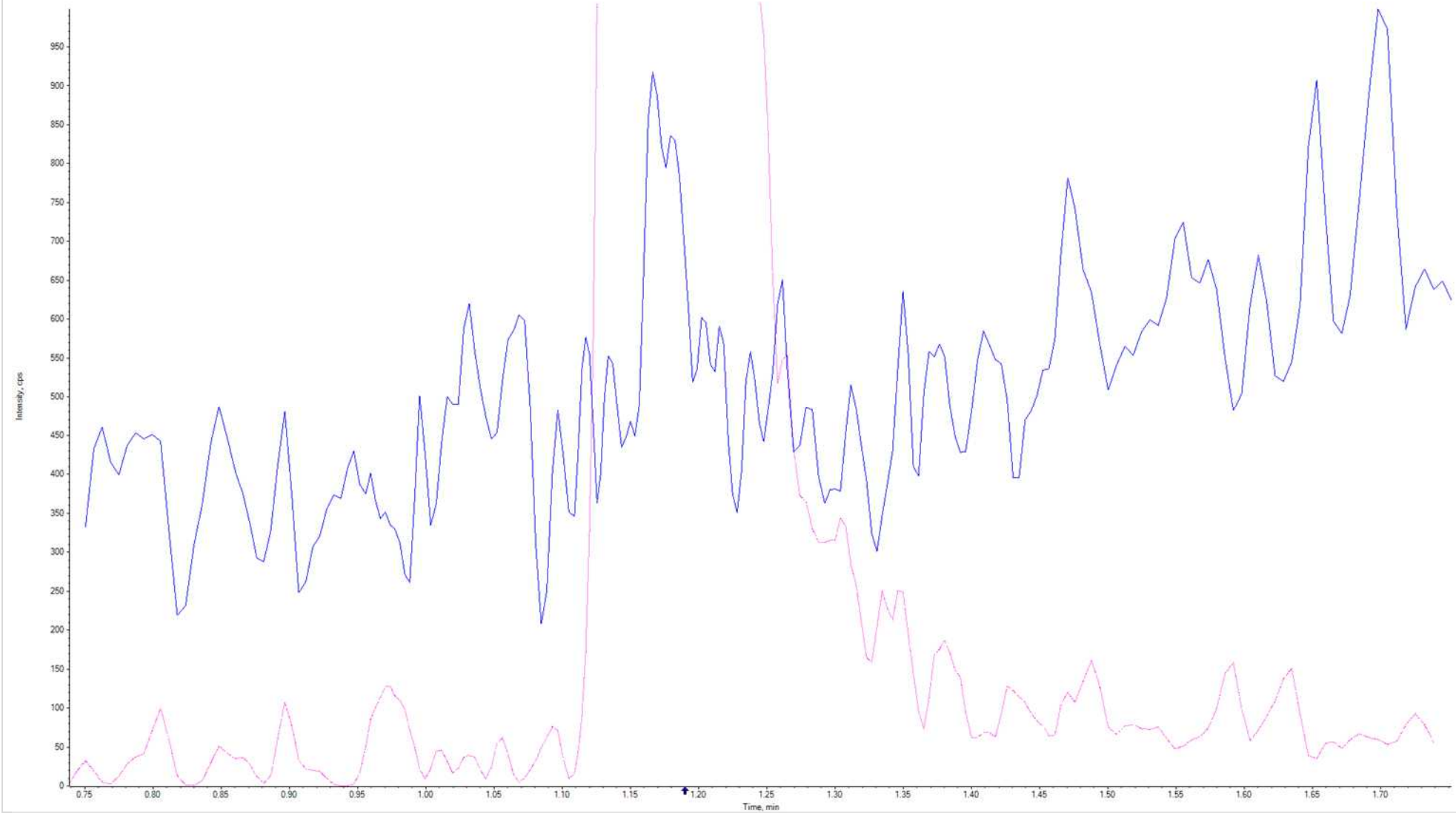
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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

PFBA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

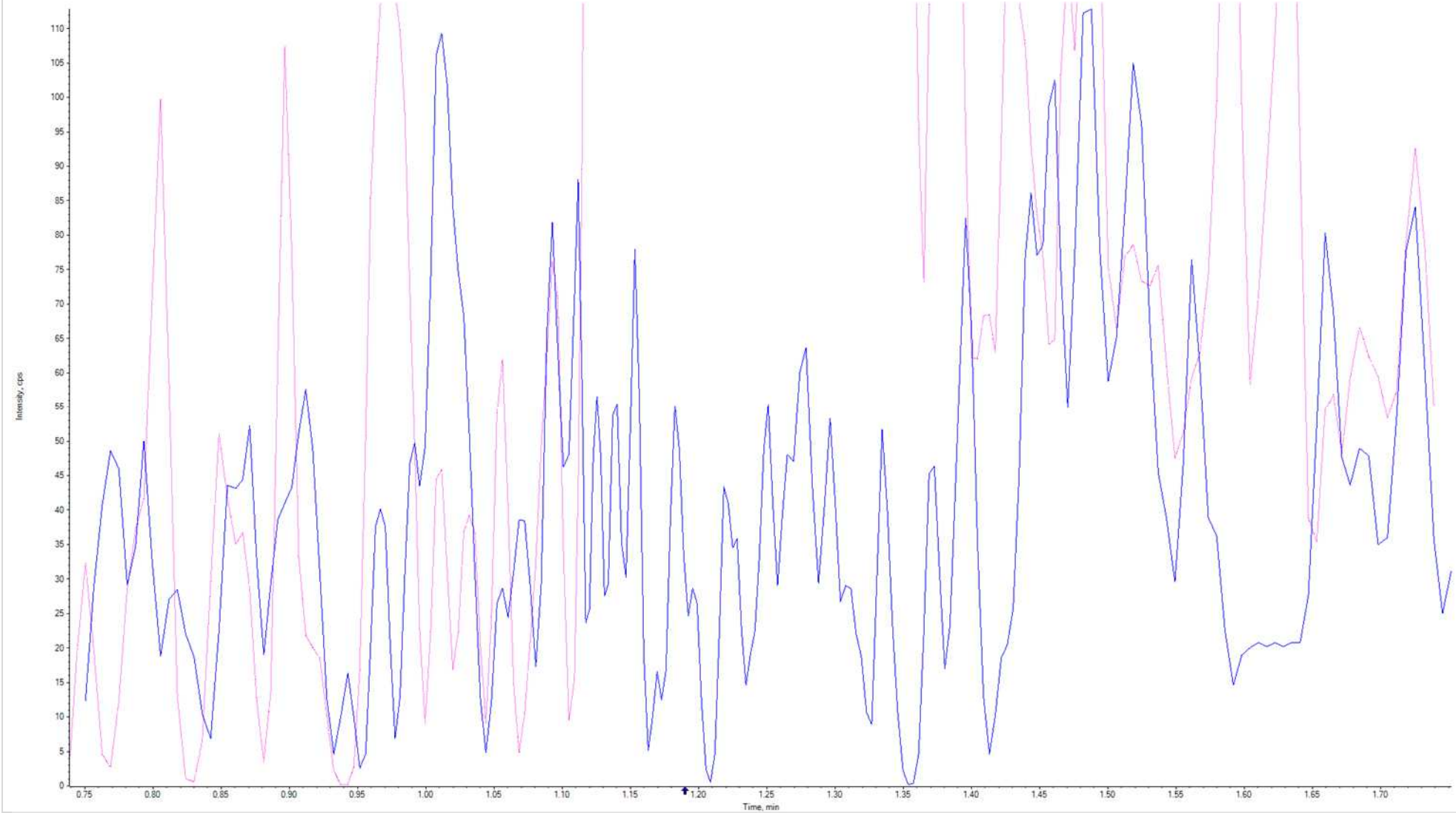


PFPeA
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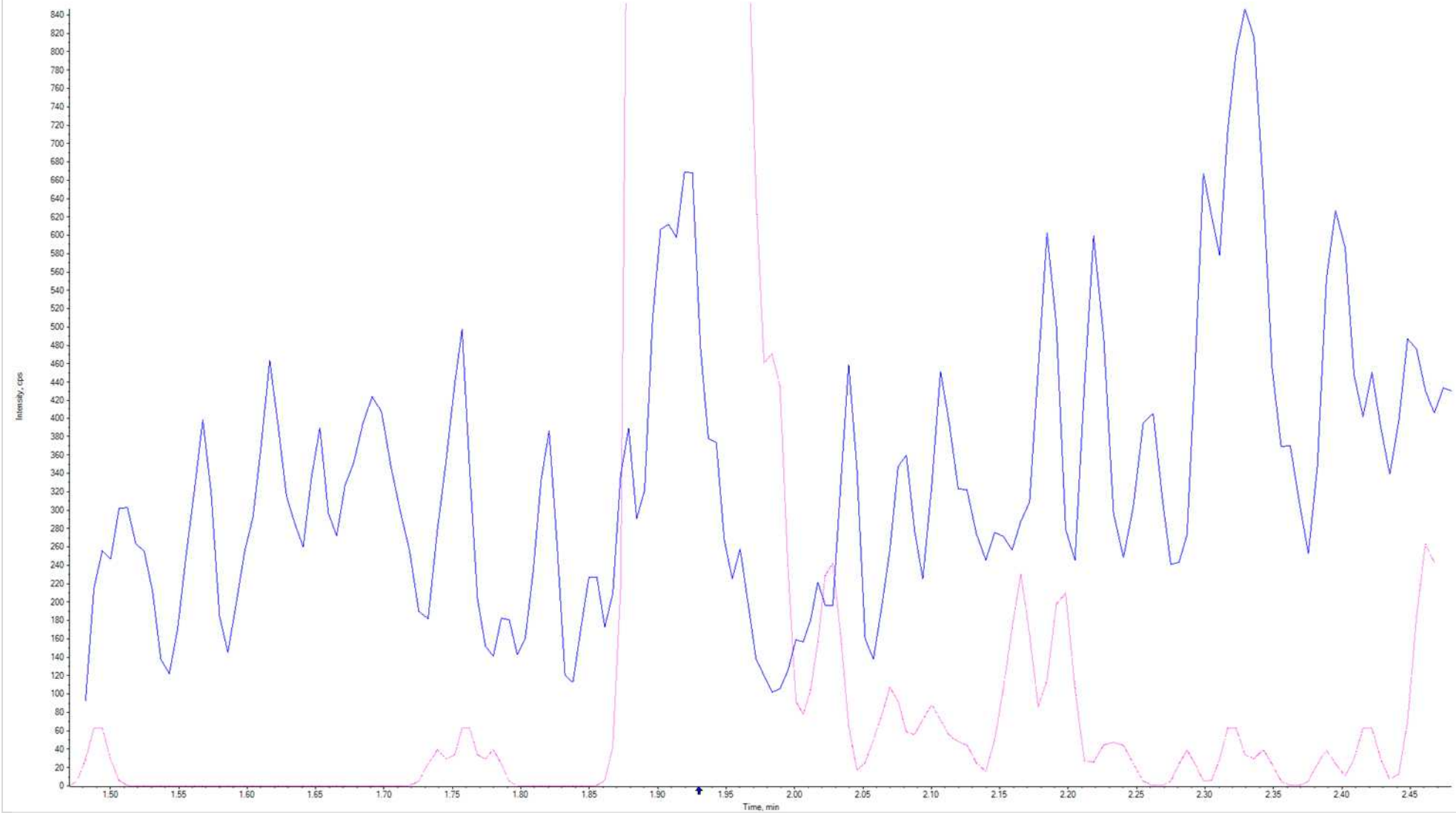
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PFPeA_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



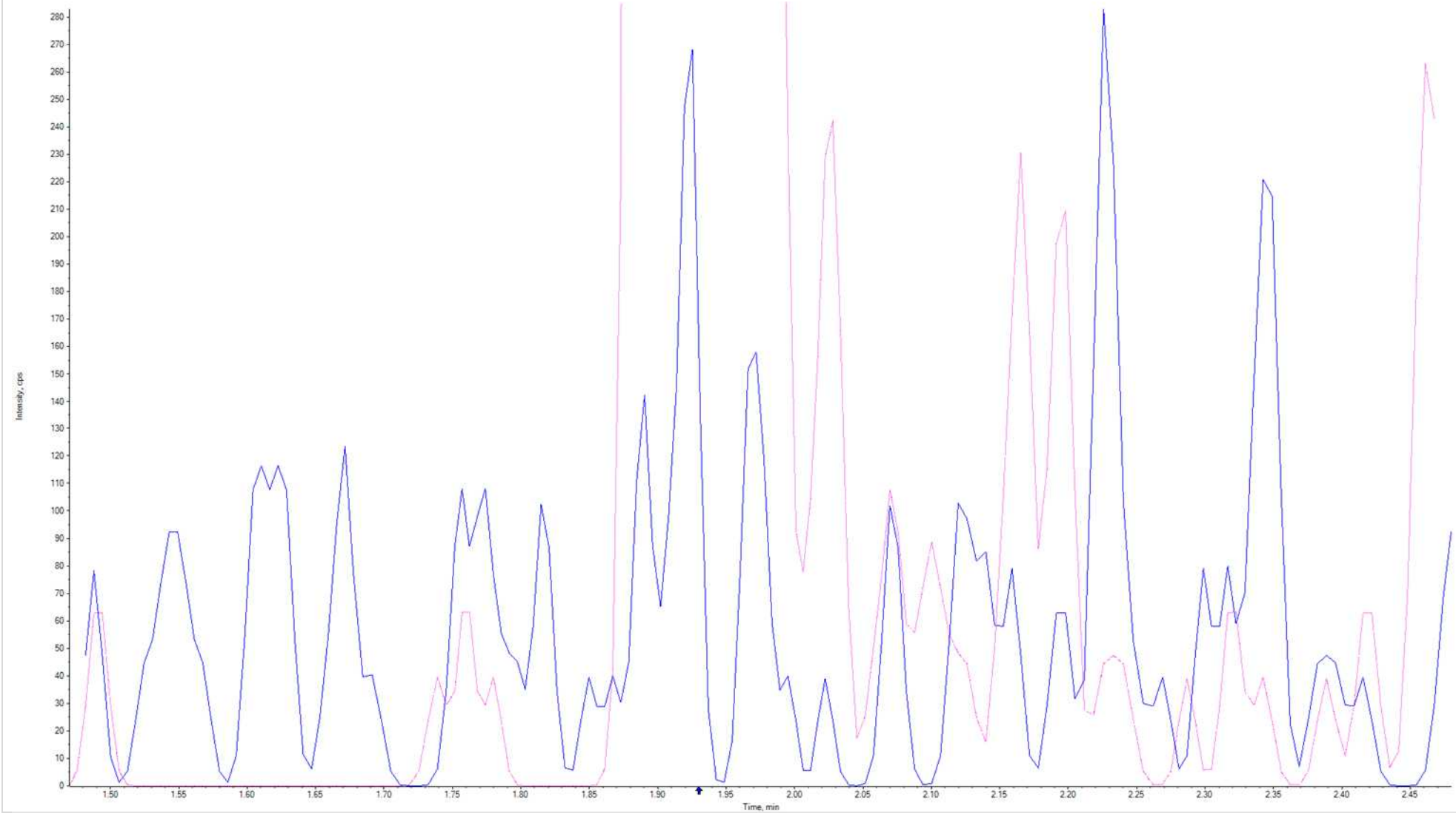
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PFHxA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

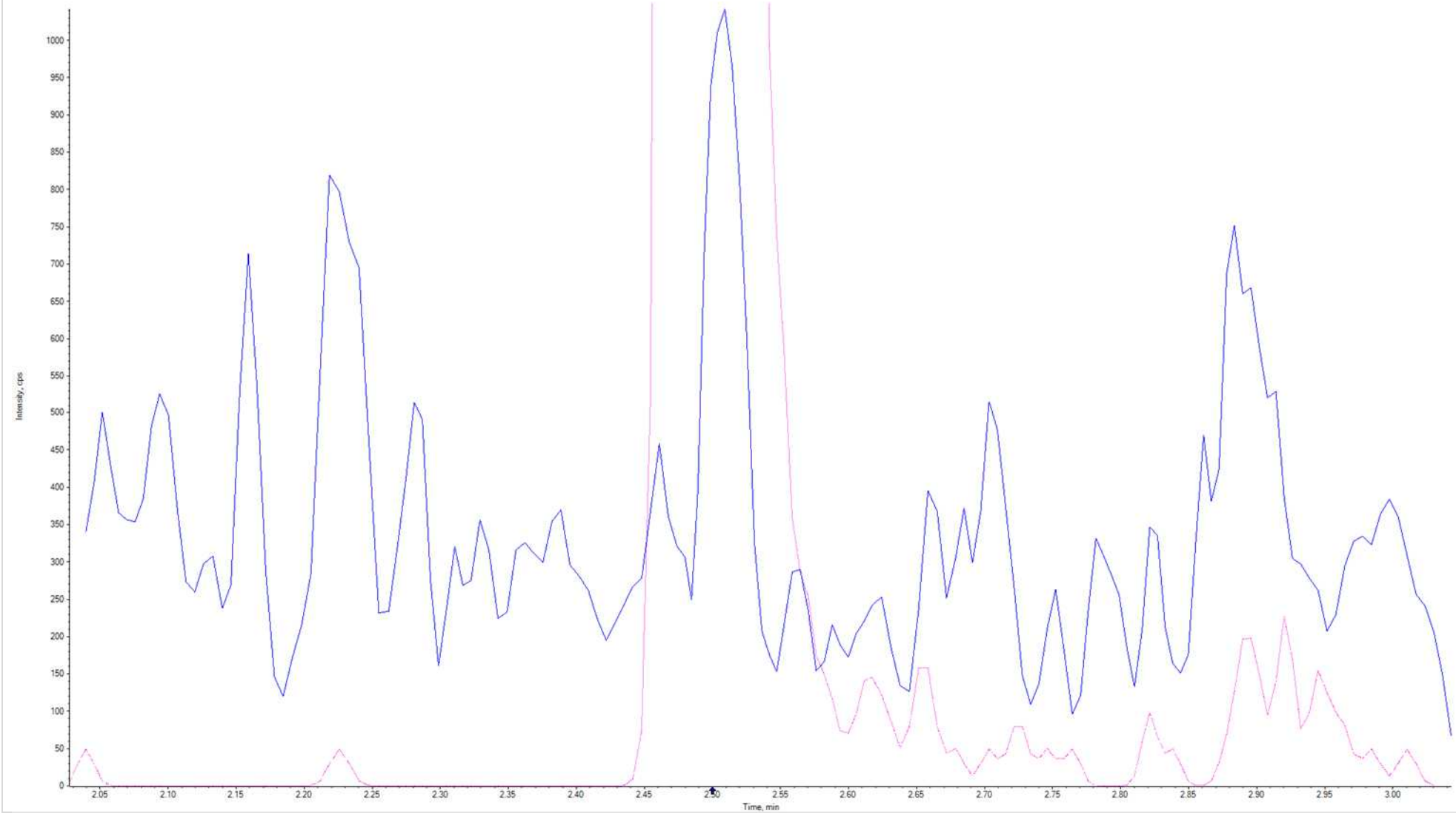


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PFHxA_2
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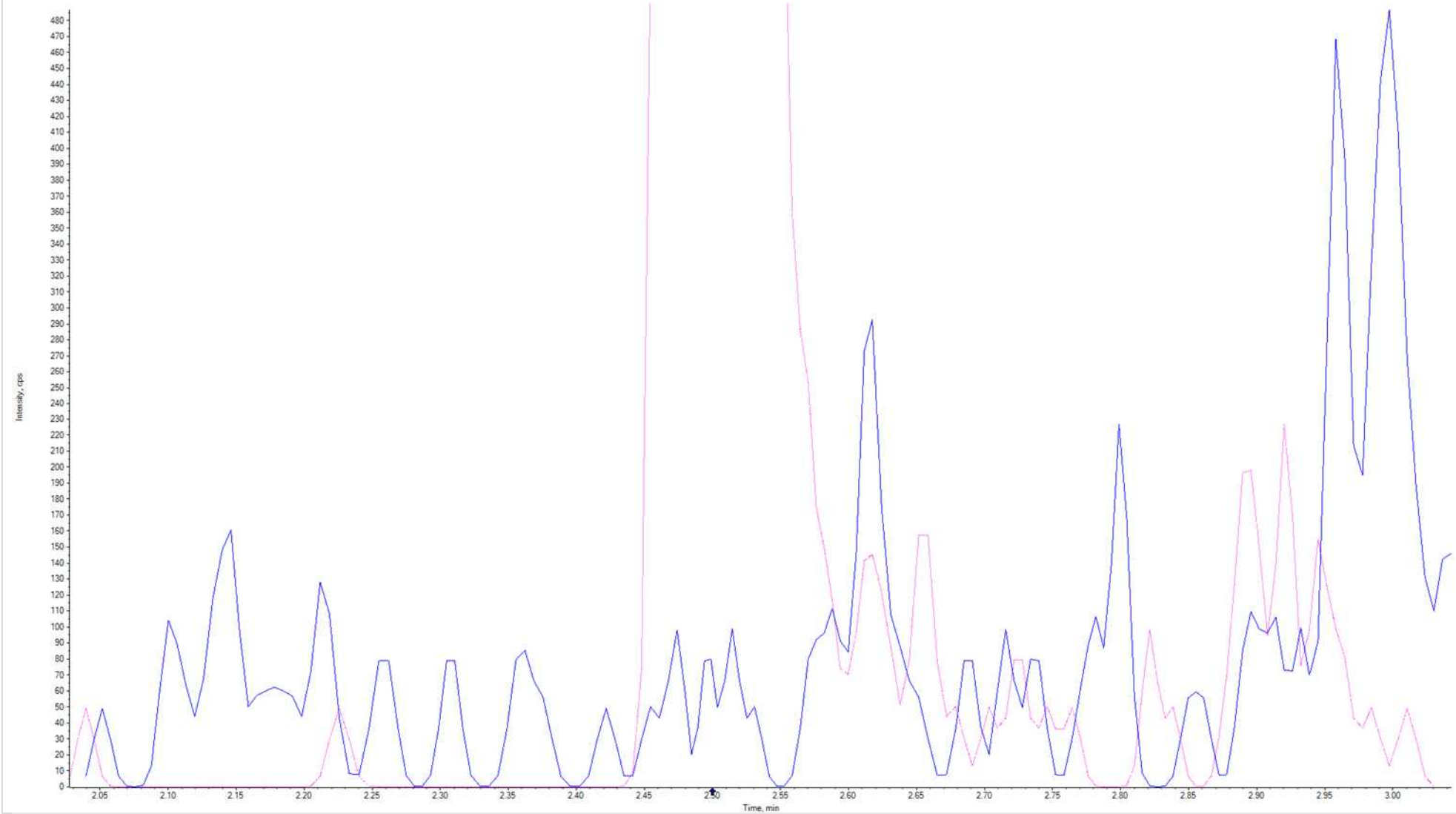


PFHpA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



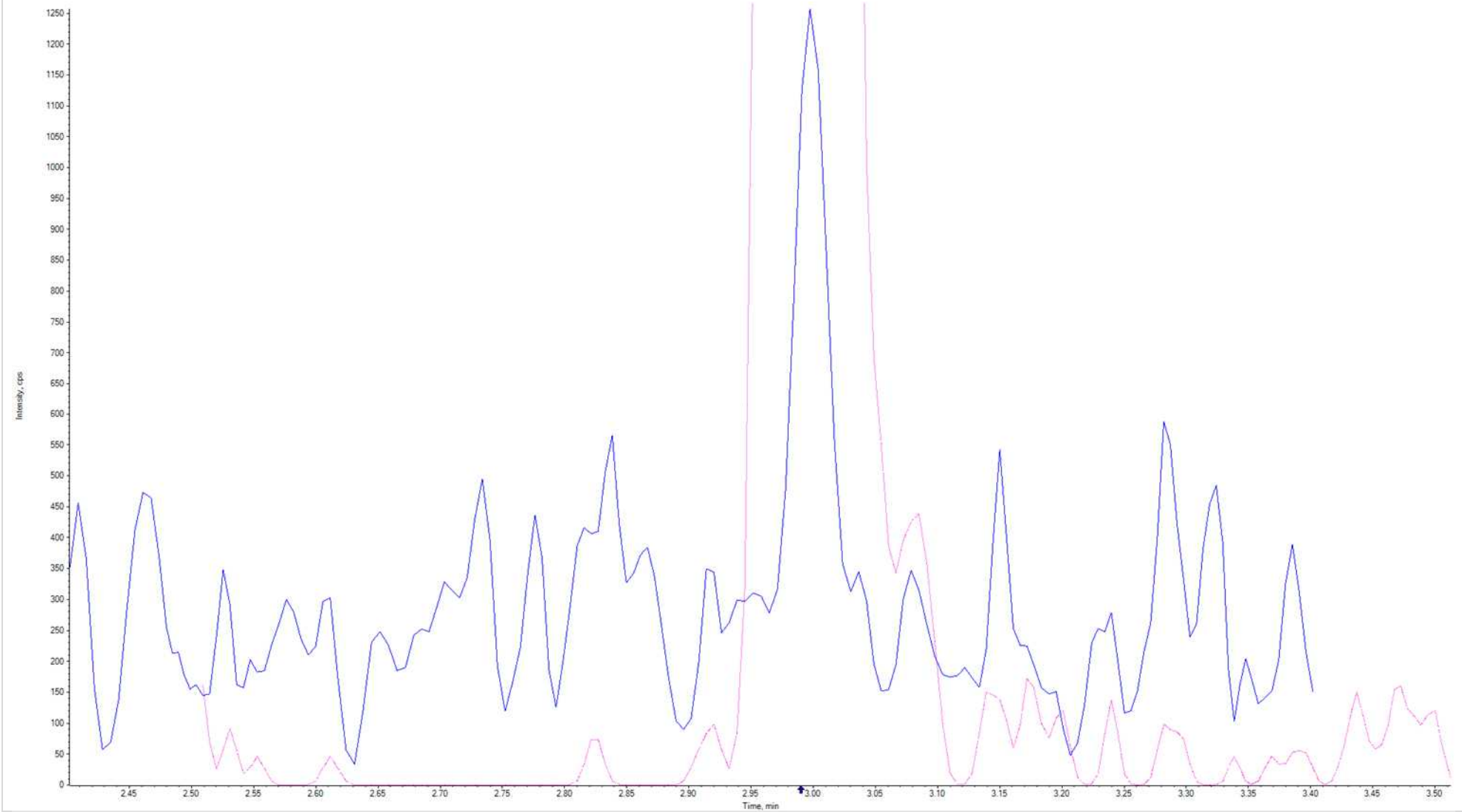
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PFHpA_2
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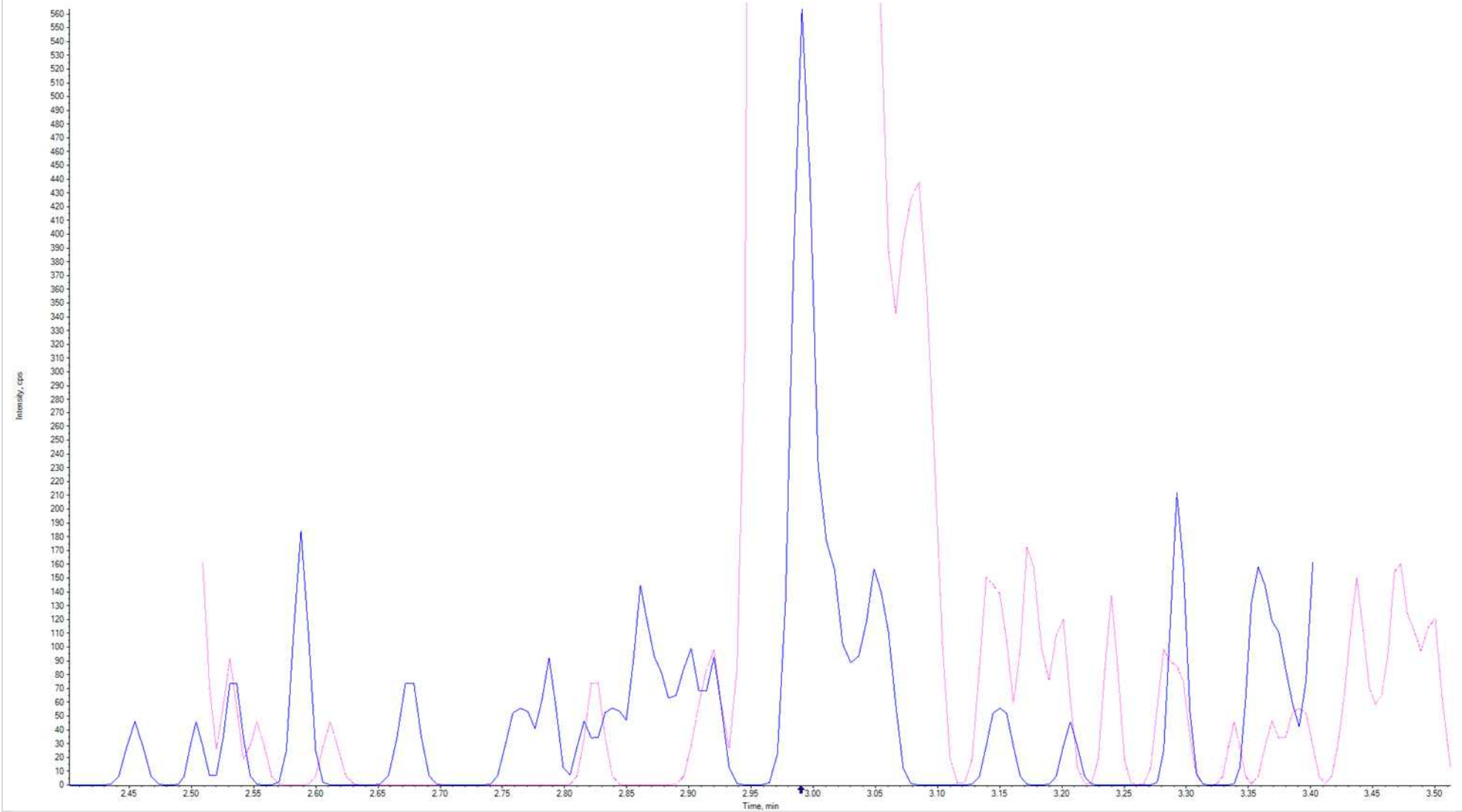
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PFOA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



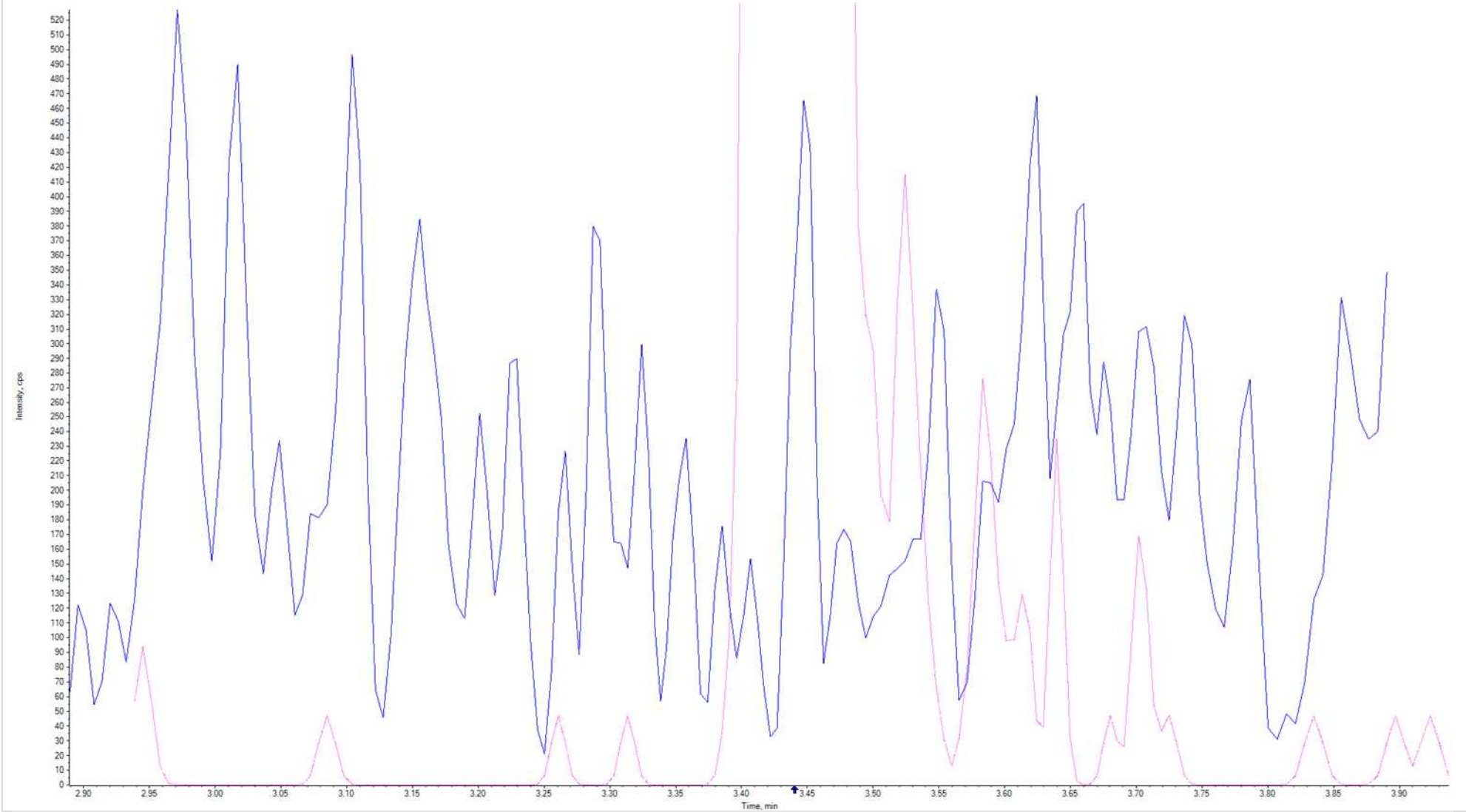
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PFOA_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



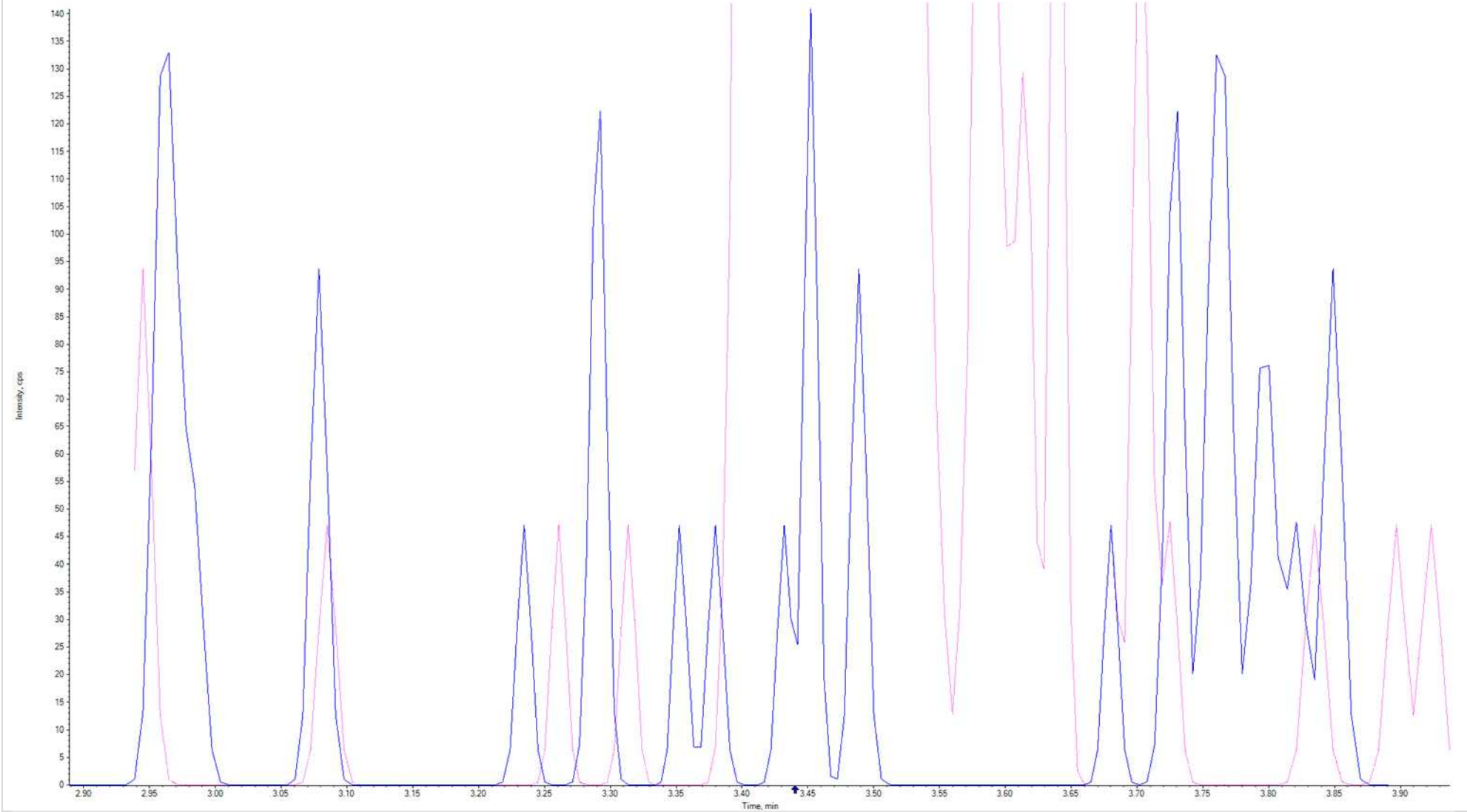
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PFNA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



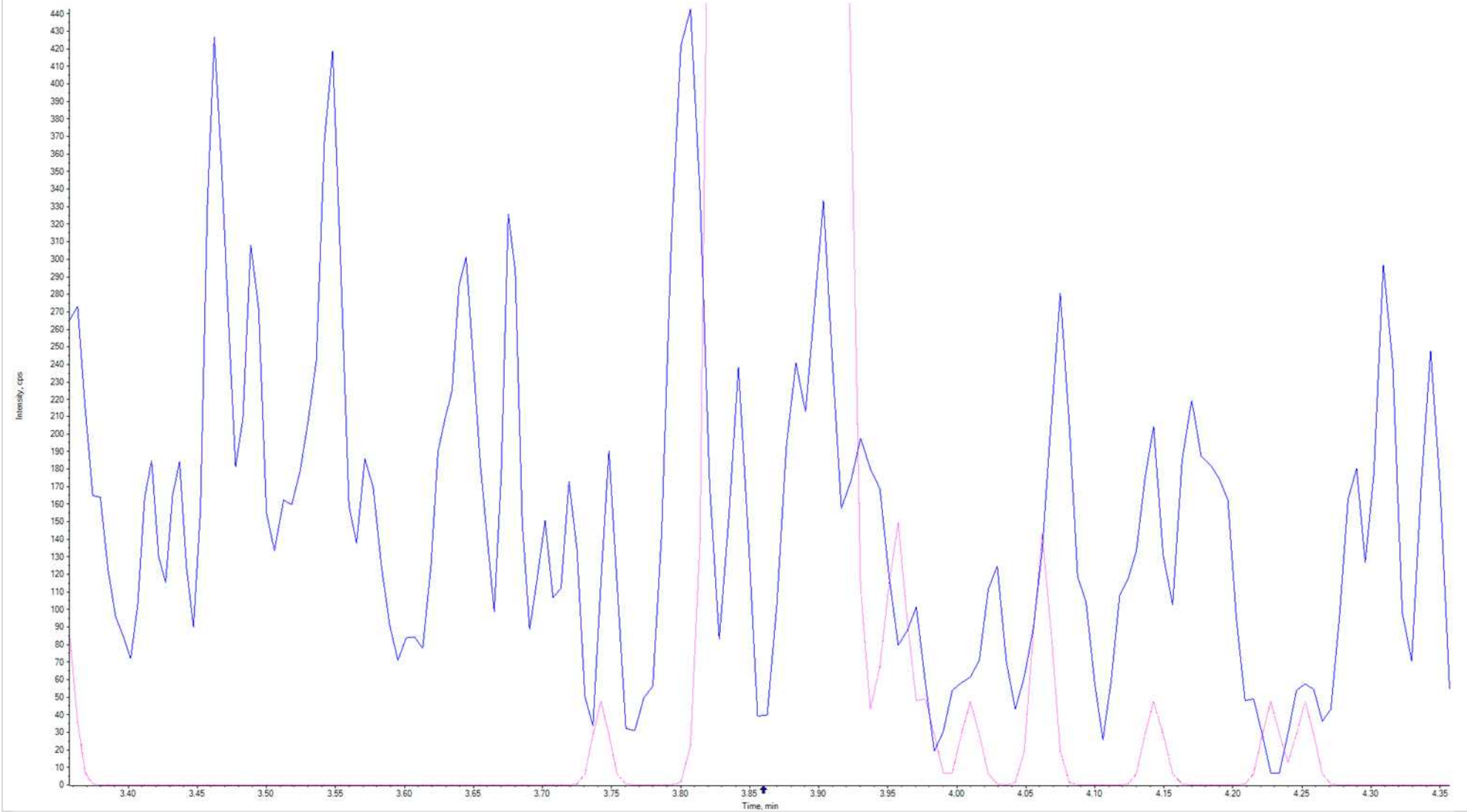
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PFNA_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



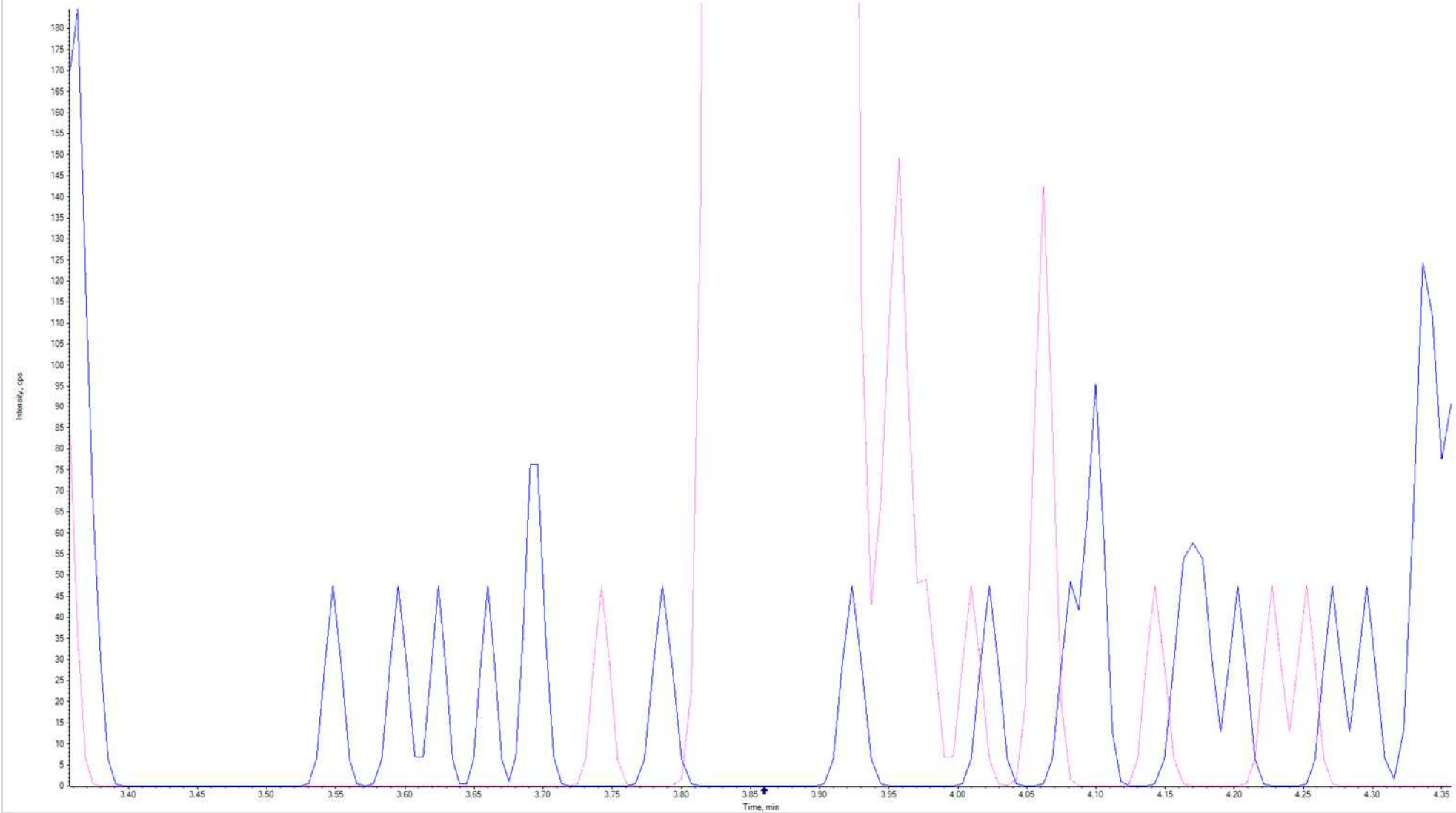
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PFDA
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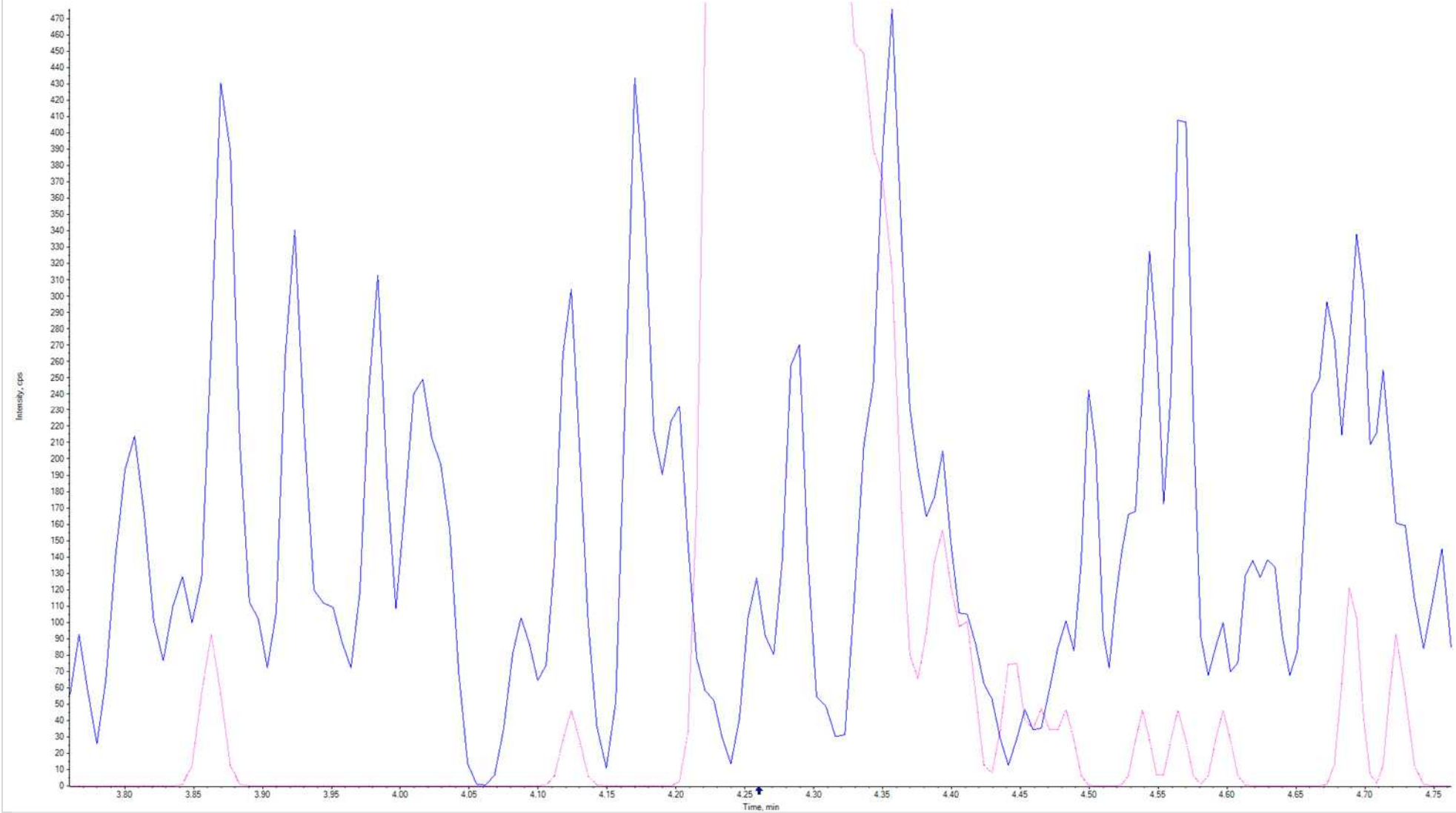
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PFDA_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



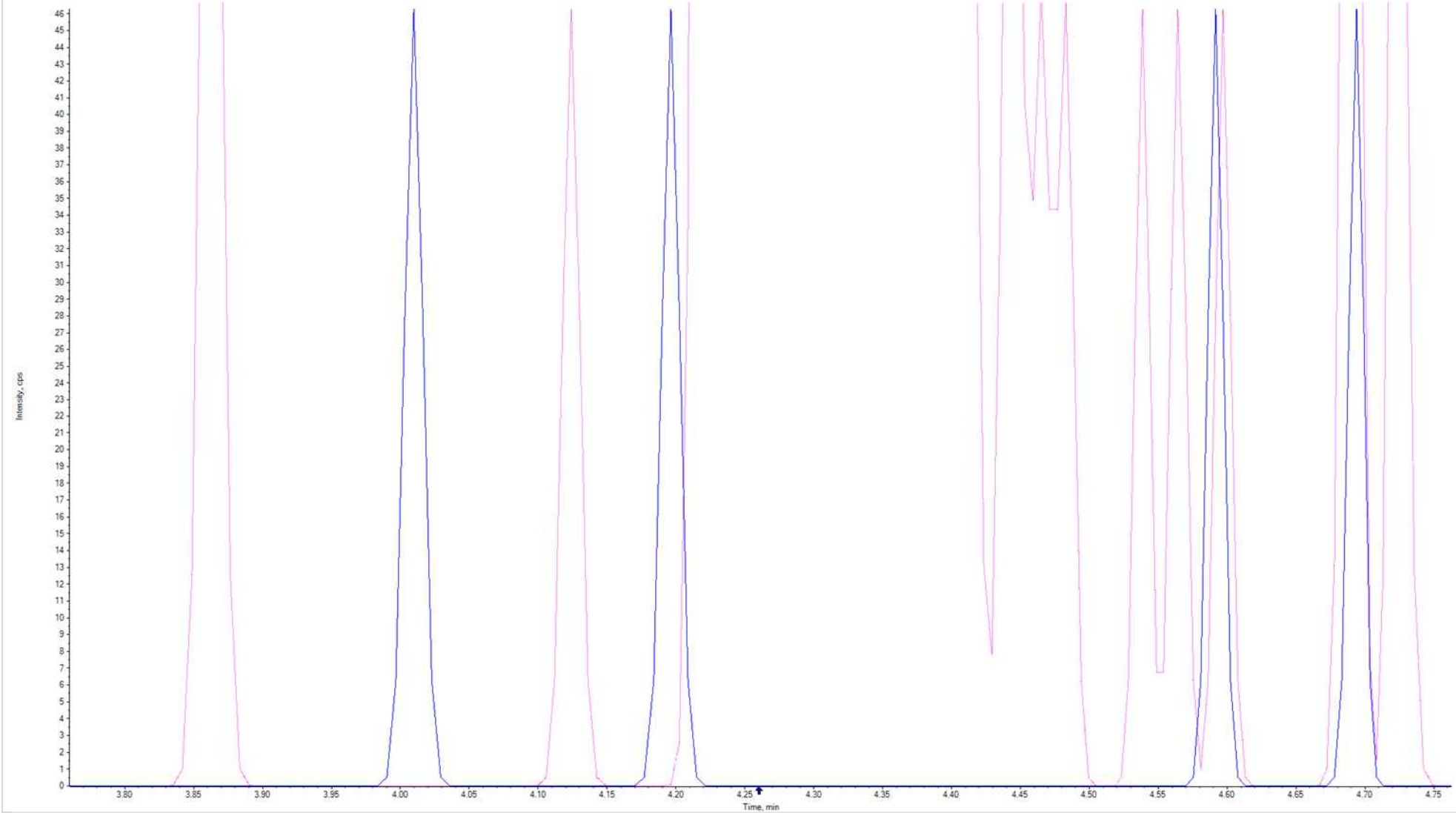
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PFUnA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



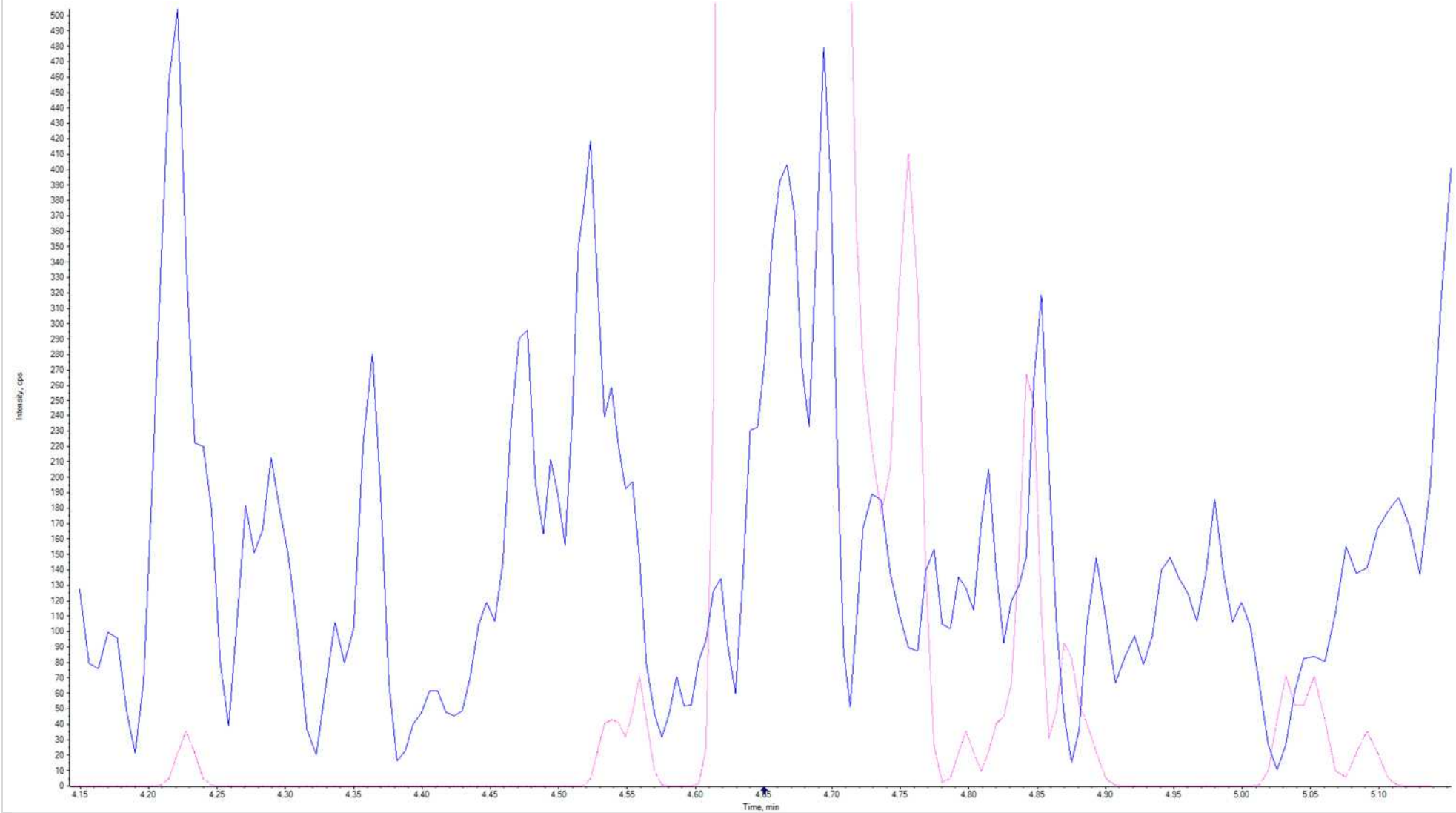
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PFUnA_2
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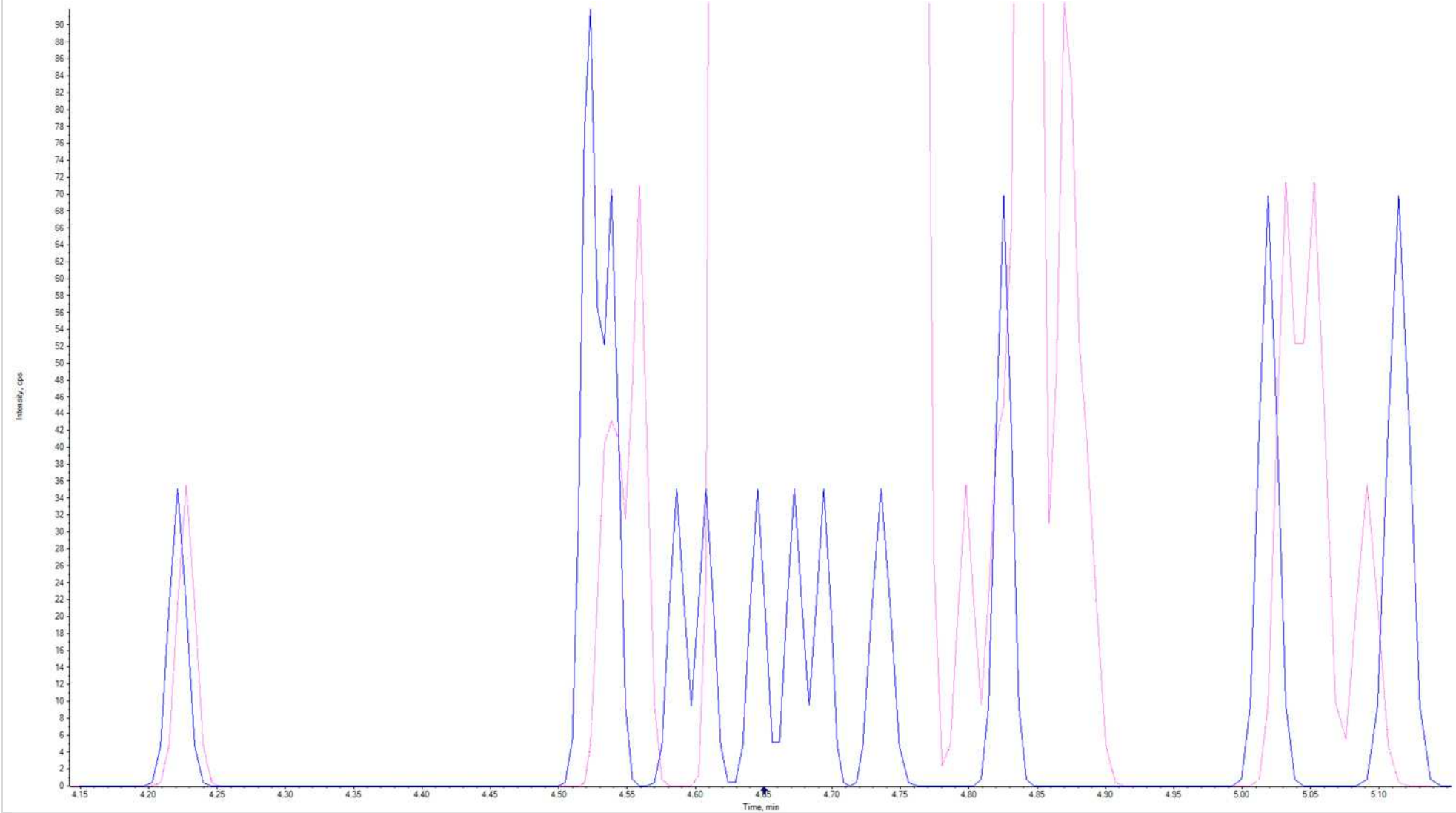
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PFDoA
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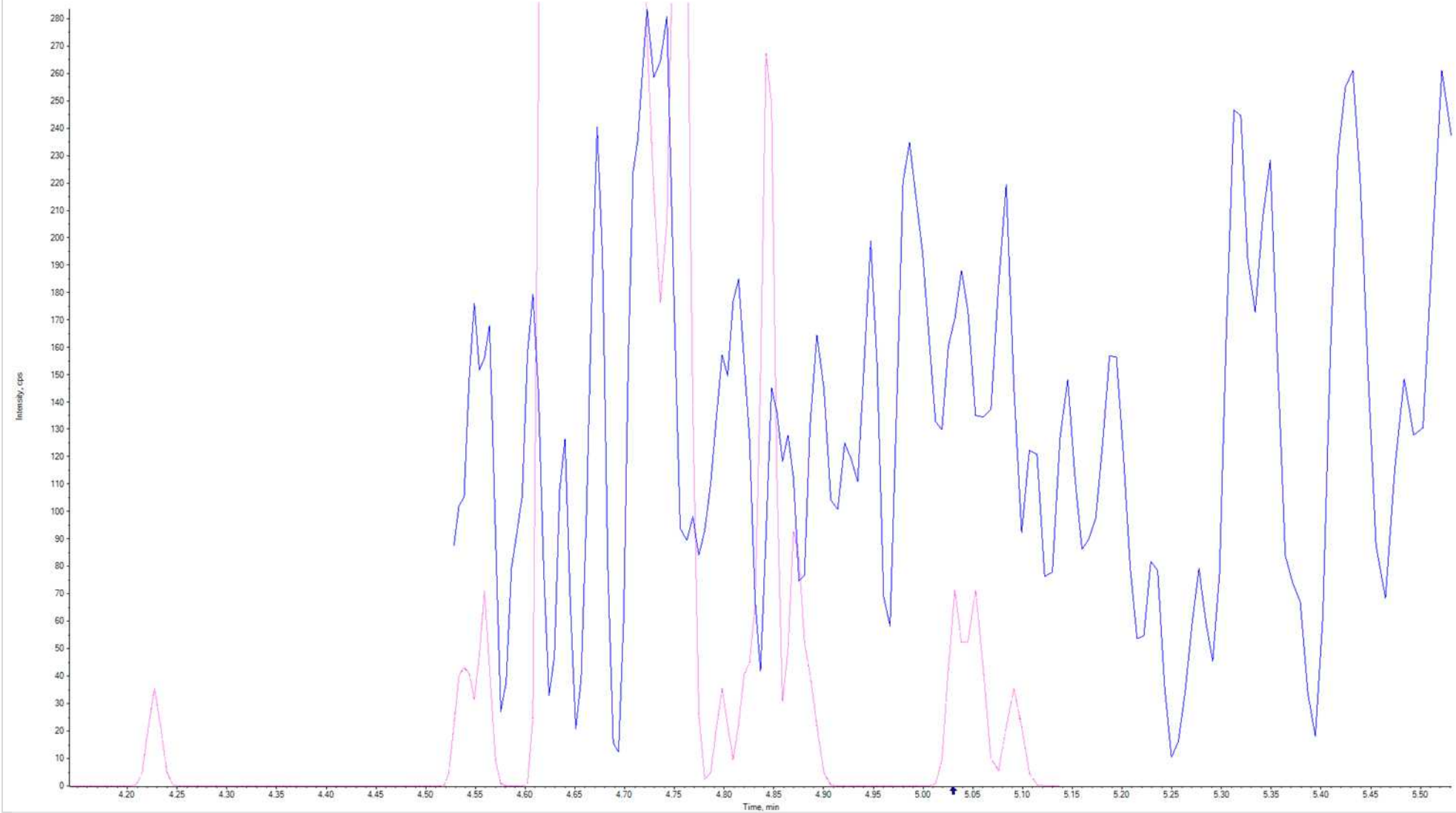
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PFDoA_2
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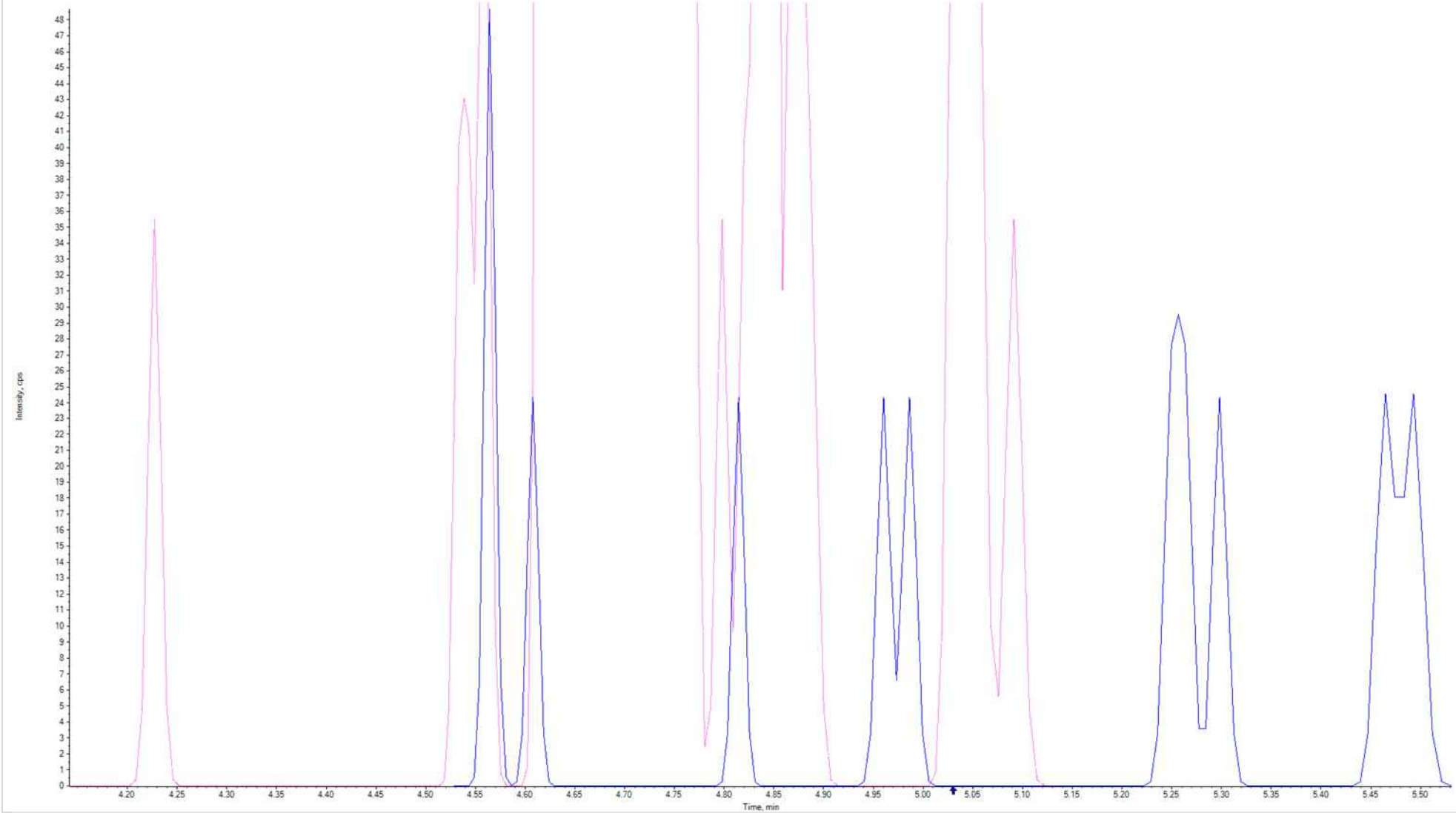
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PFTrDA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



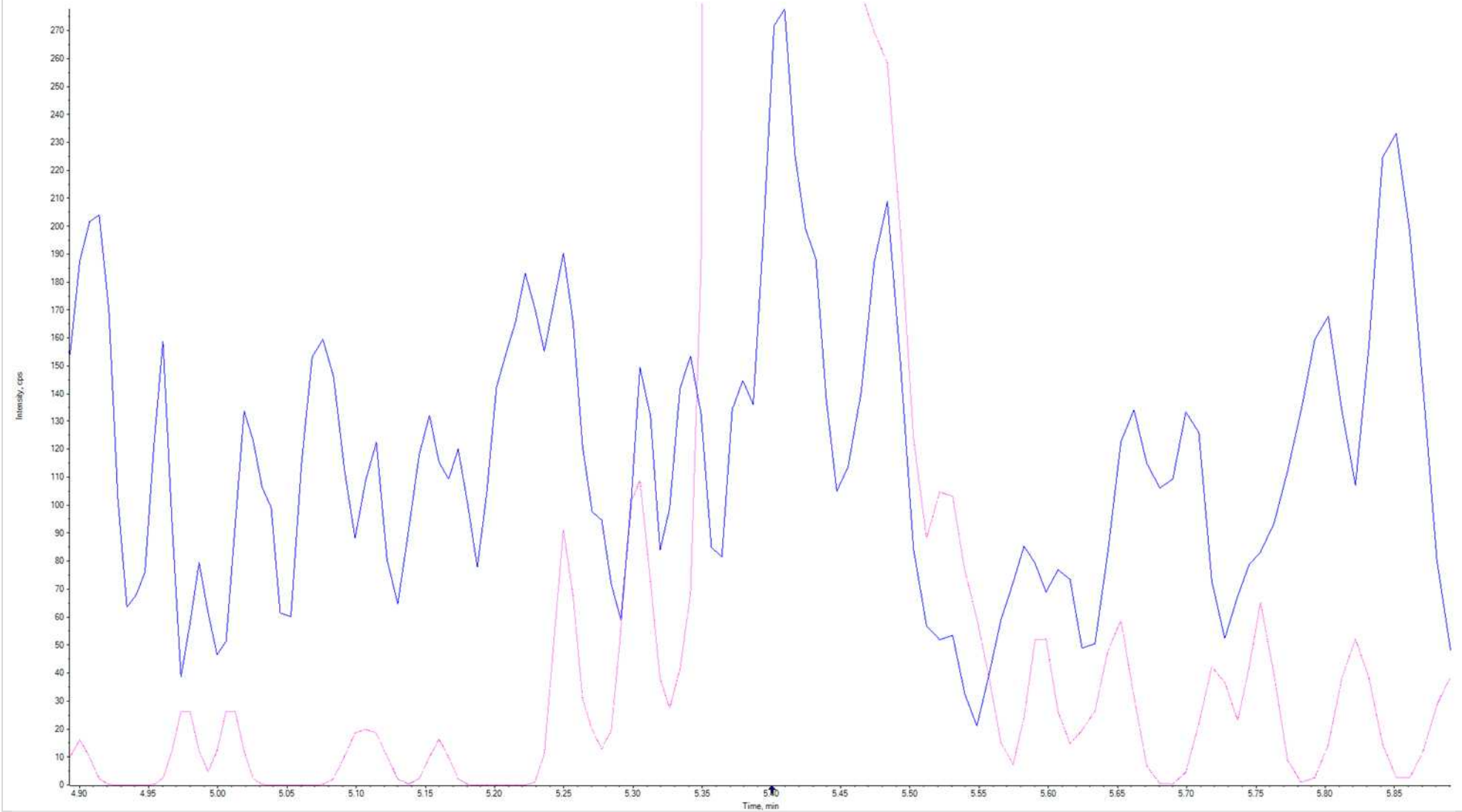
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PFTrDA_2
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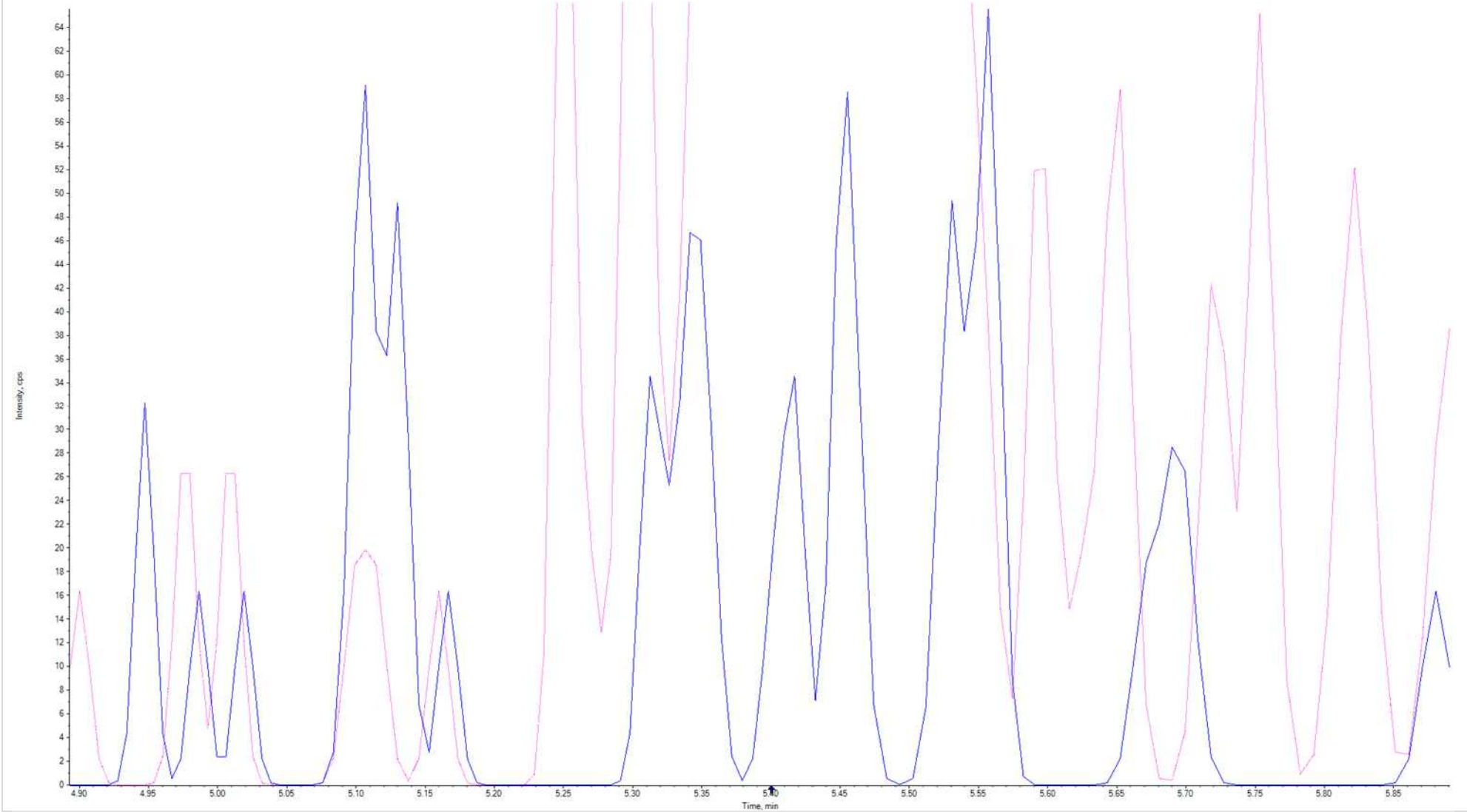
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PFTeDA
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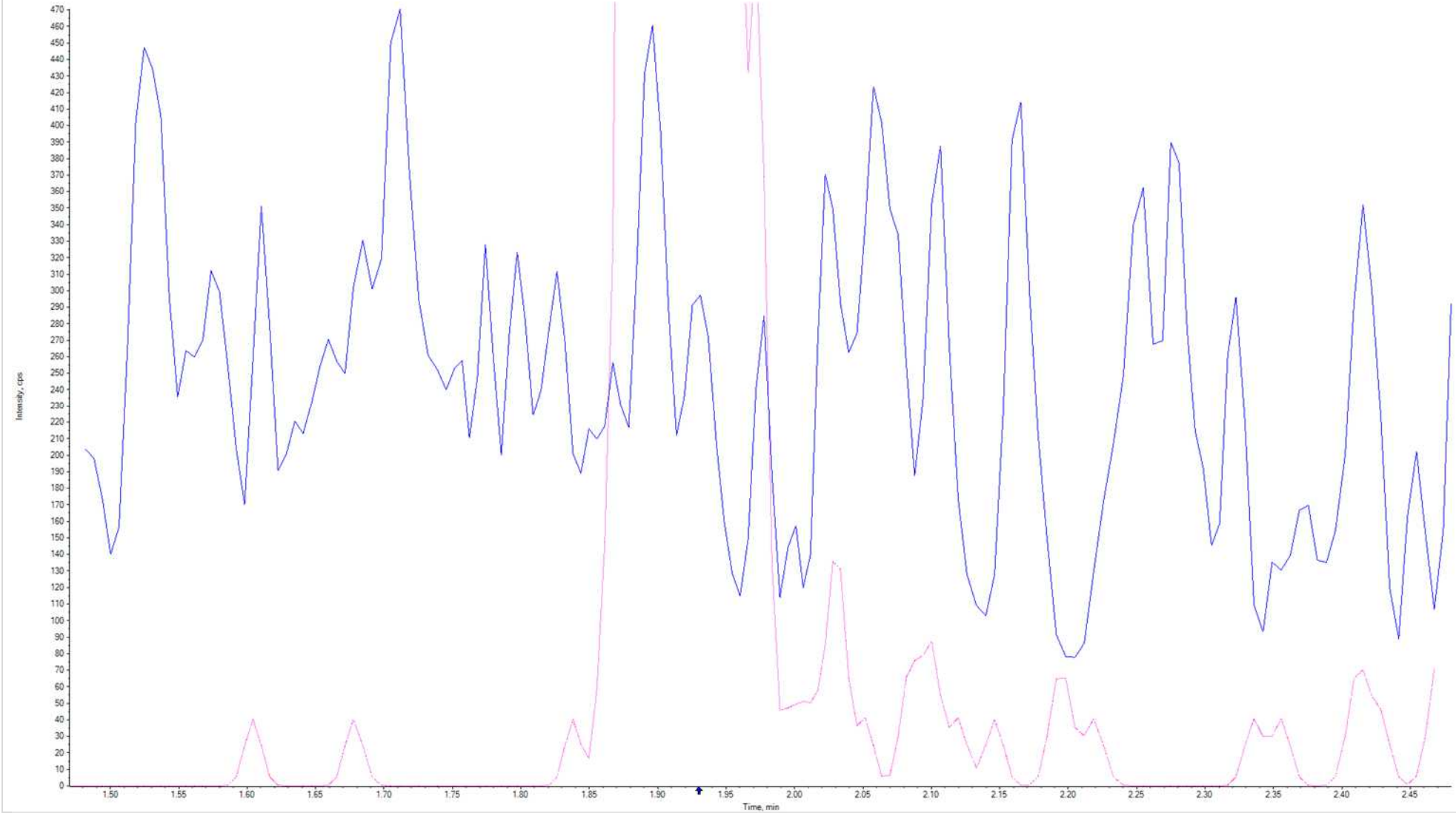
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PFTeDA_2
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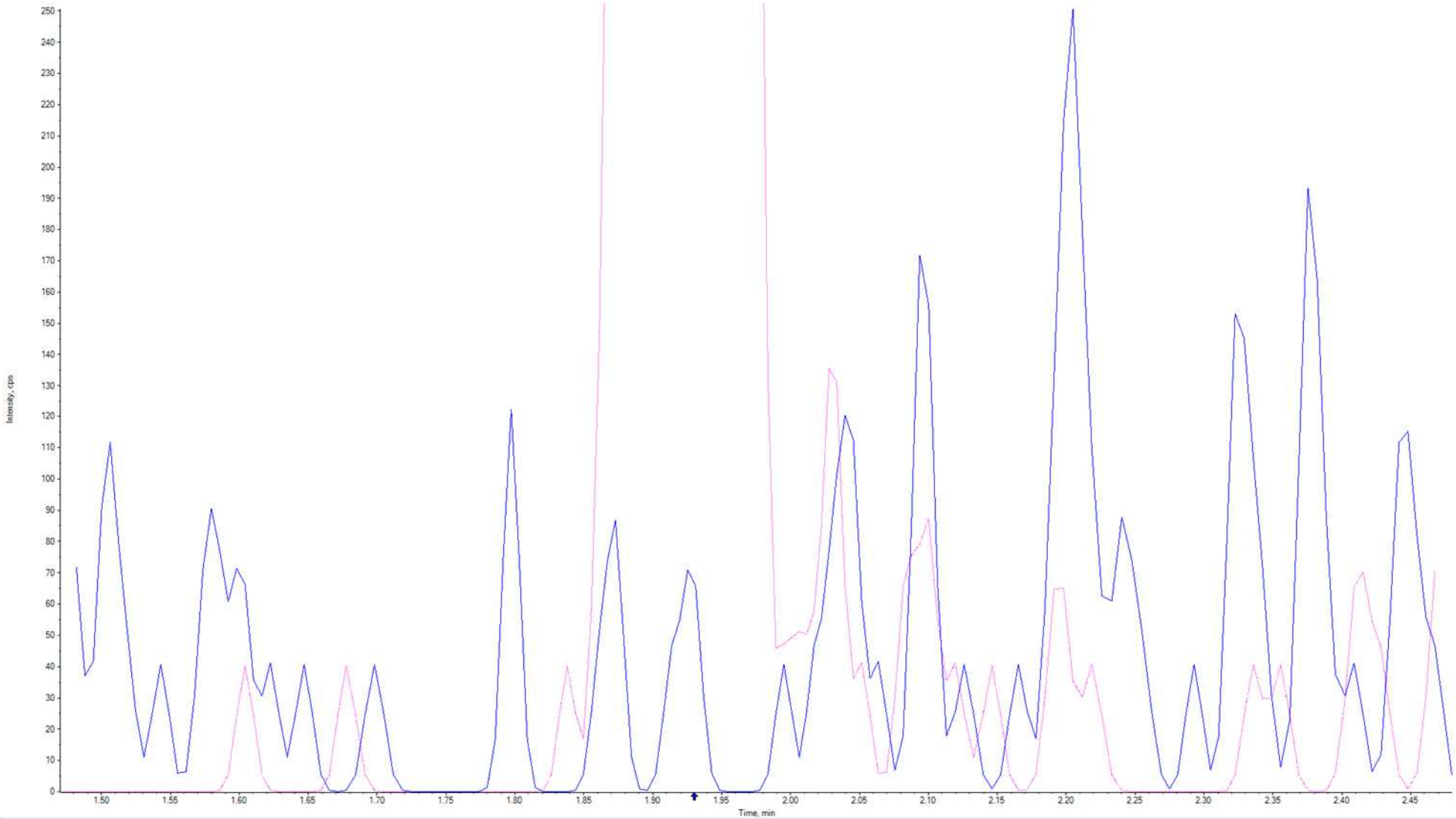
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PFBS
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



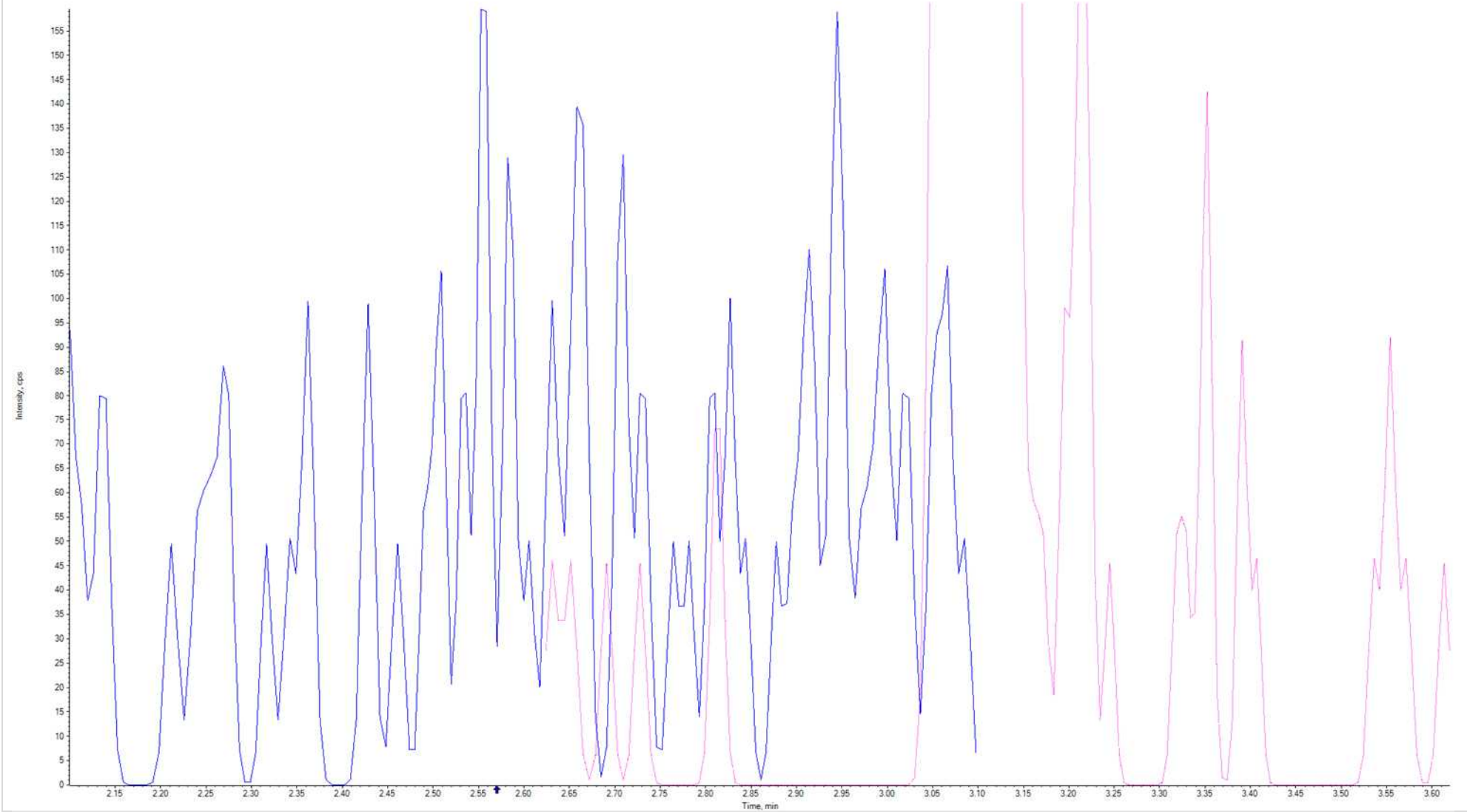
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PFBS_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



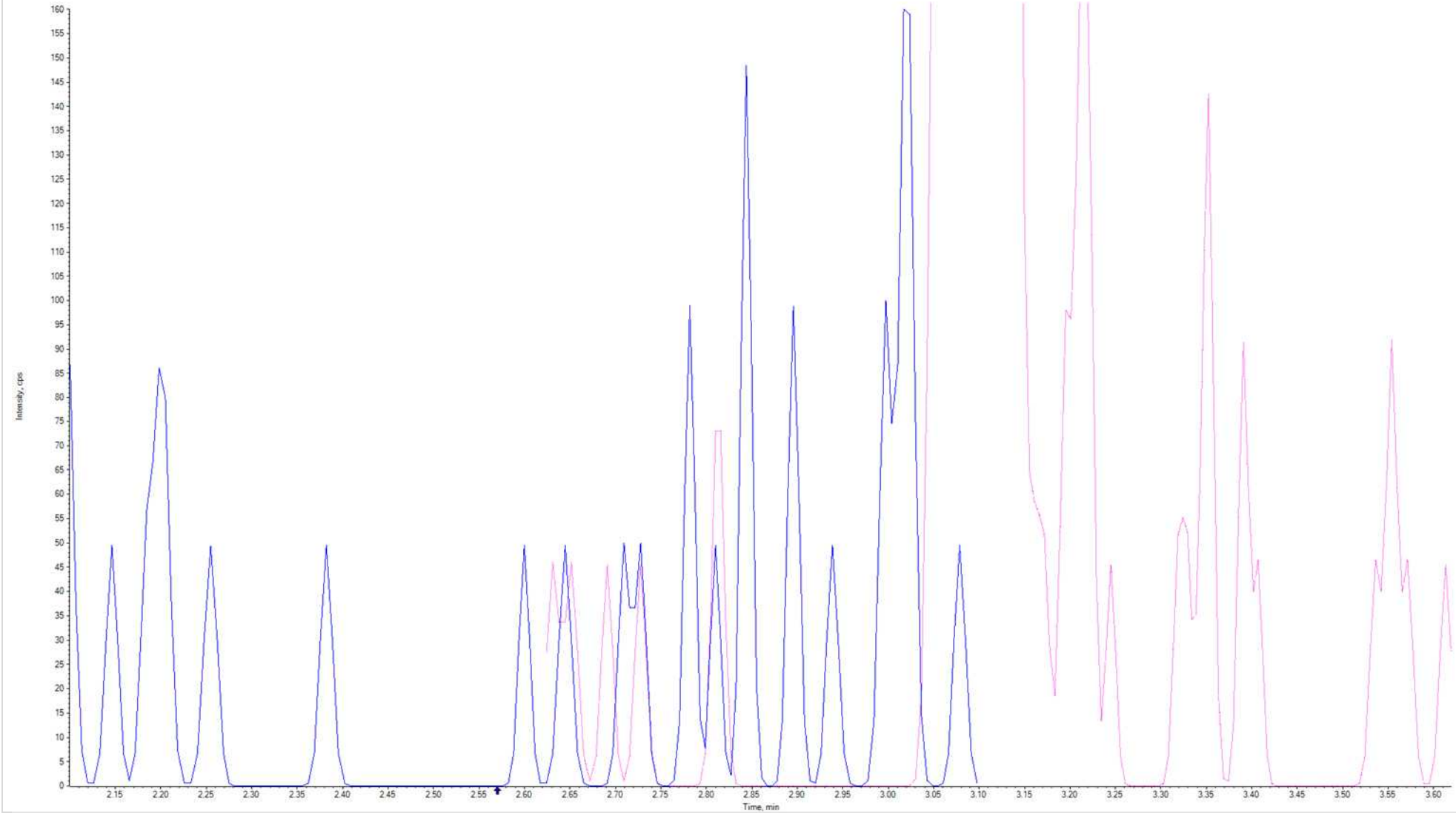
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PFPeS
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



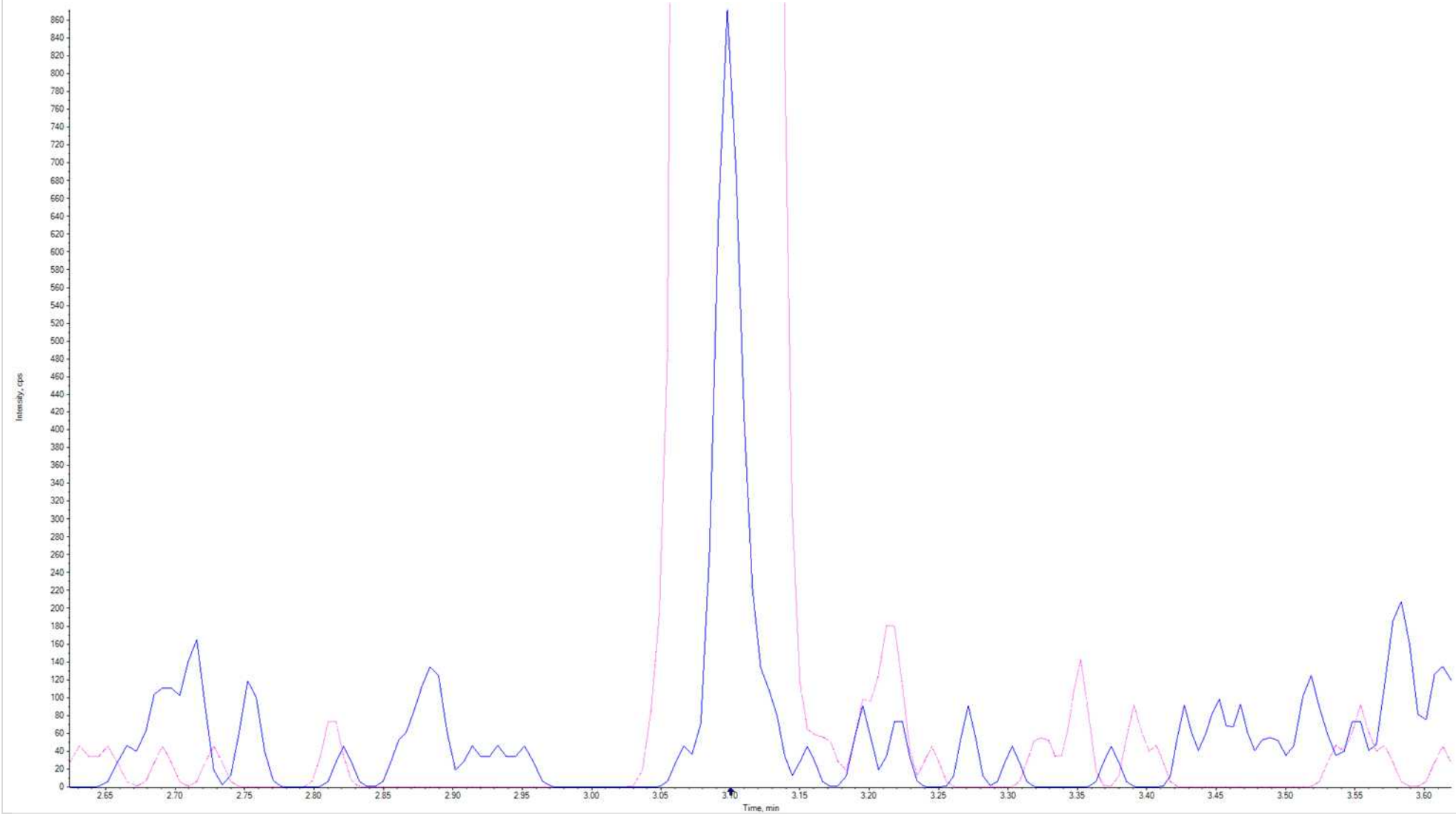
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PFPeS_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



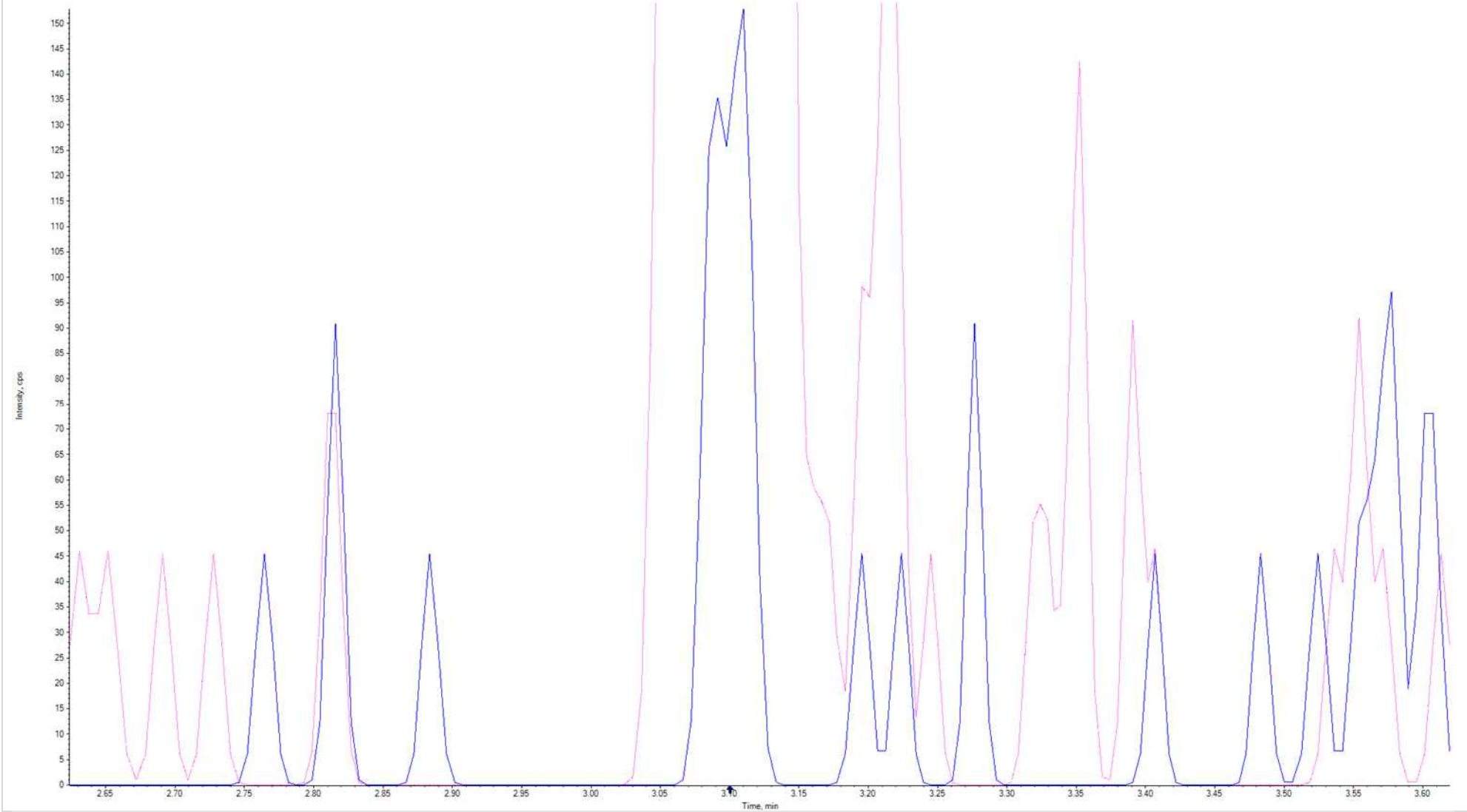
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PFHxS
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



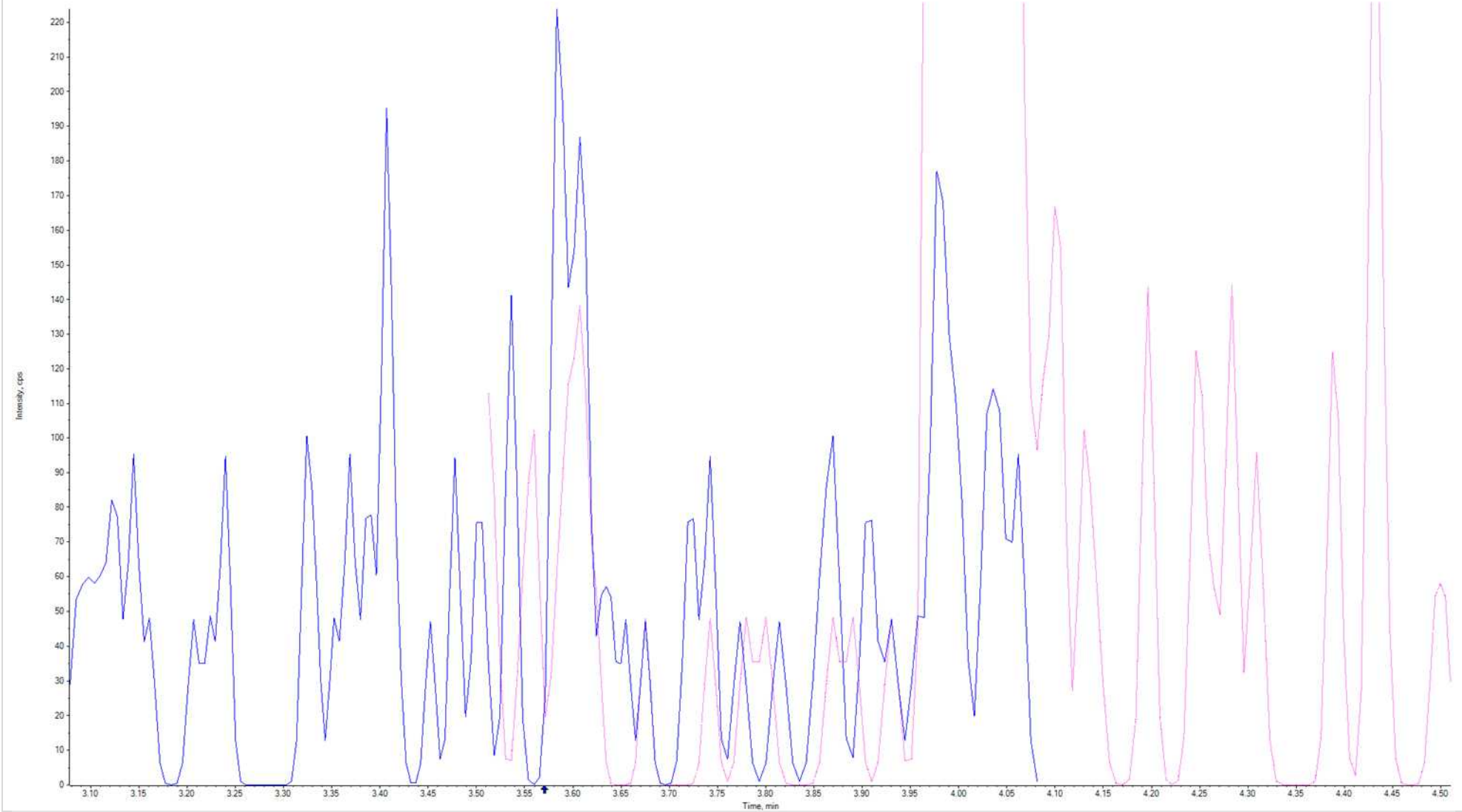
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PFHxS_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



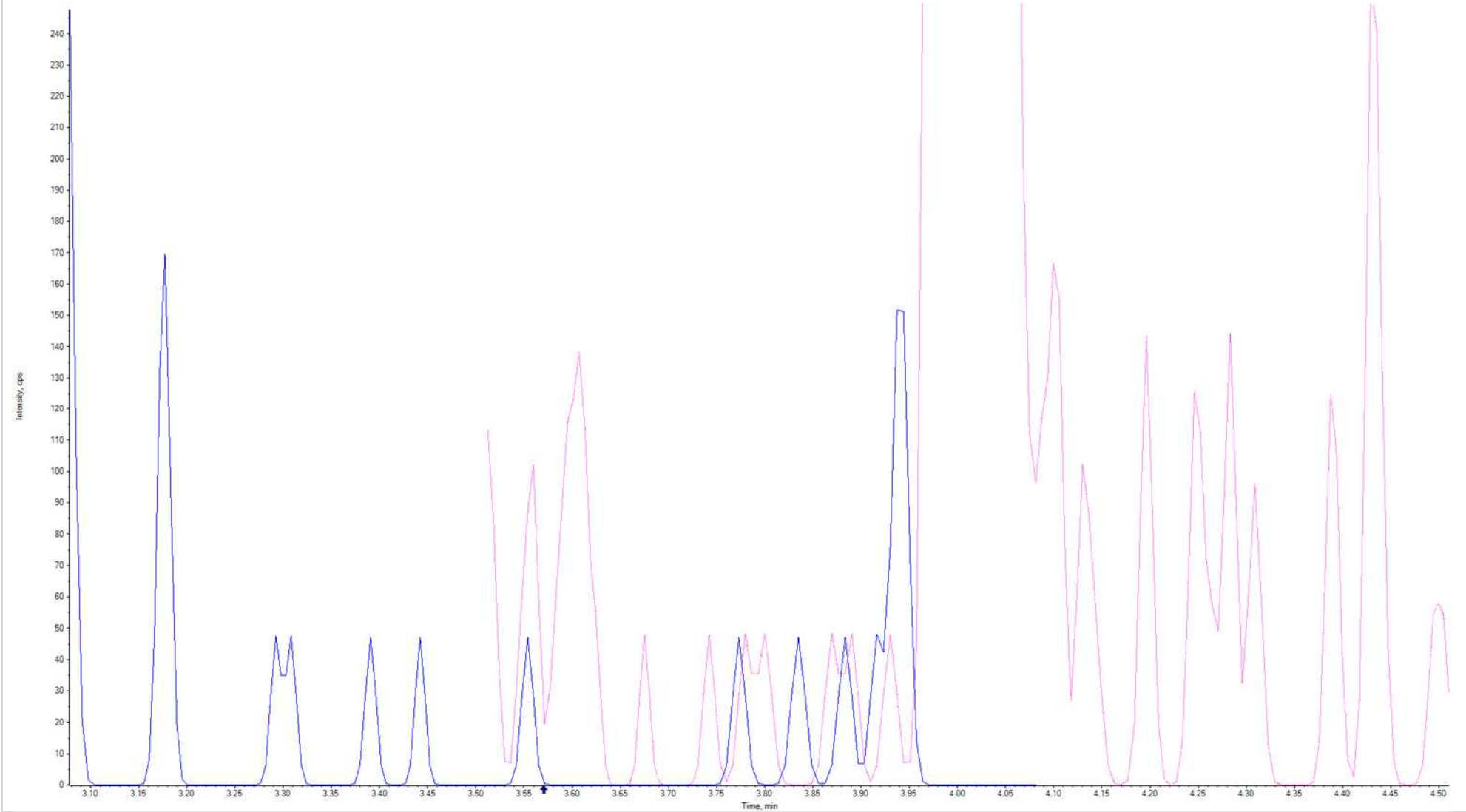
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PFHpS
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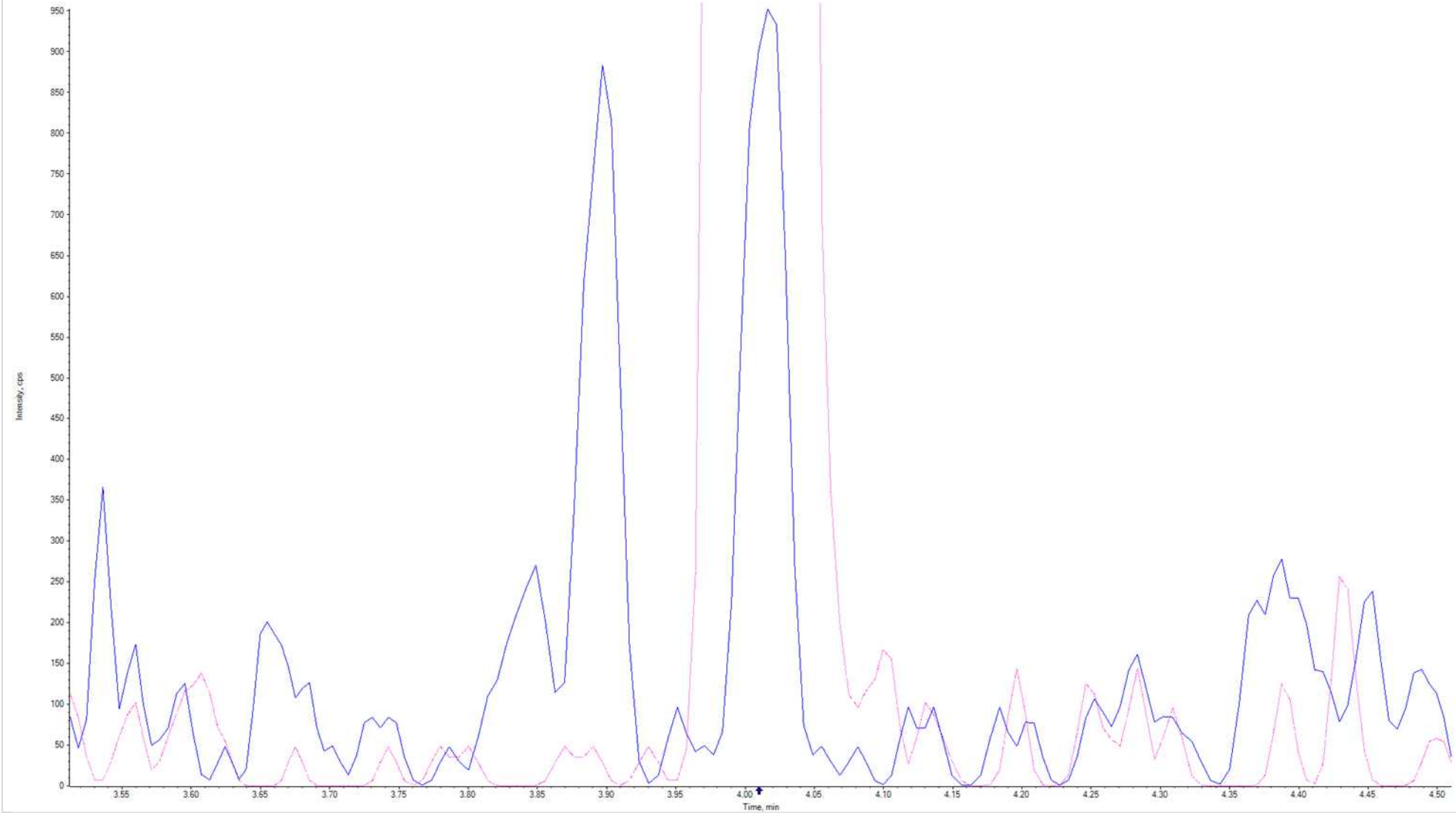
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PFHpS_2
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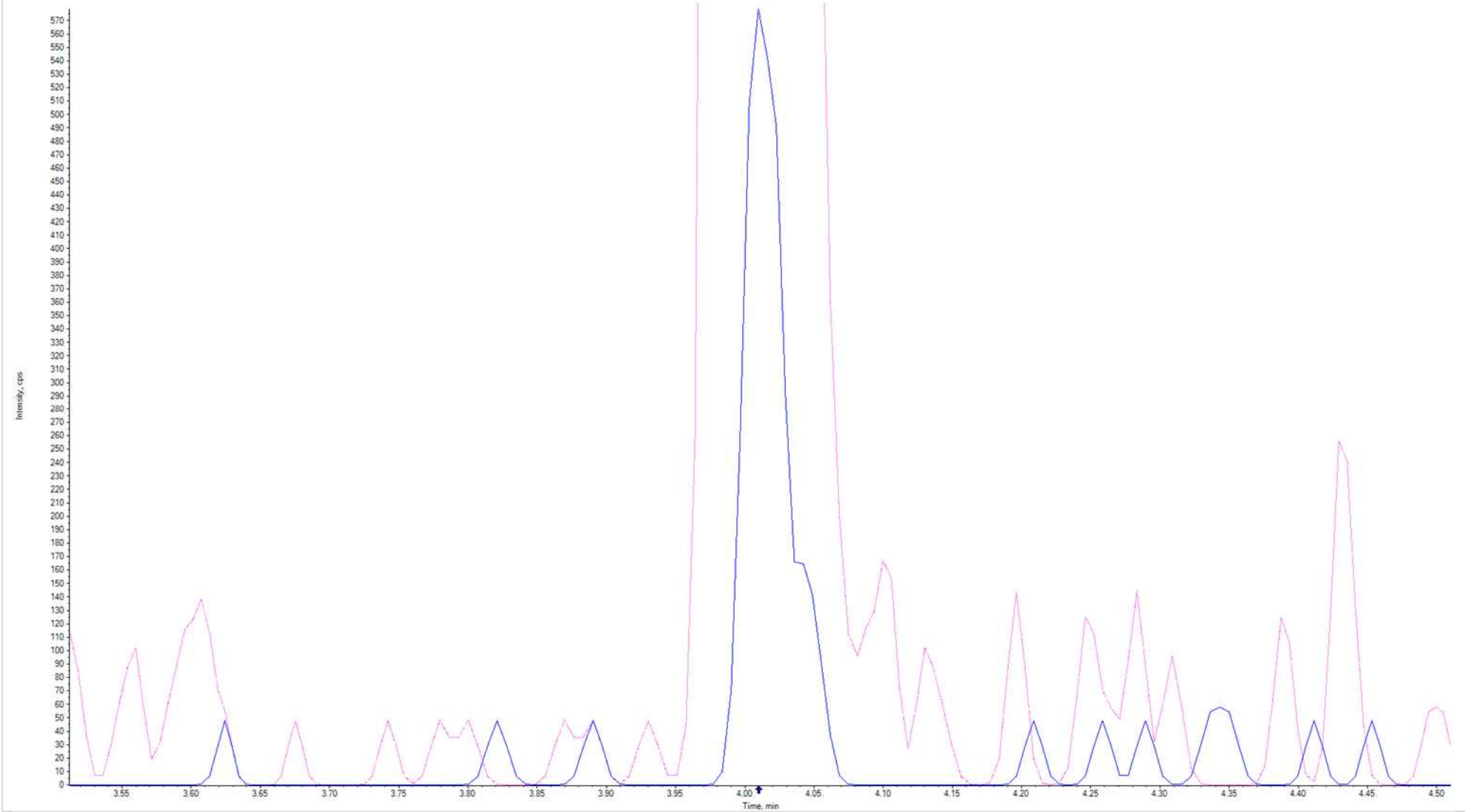
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PFOS
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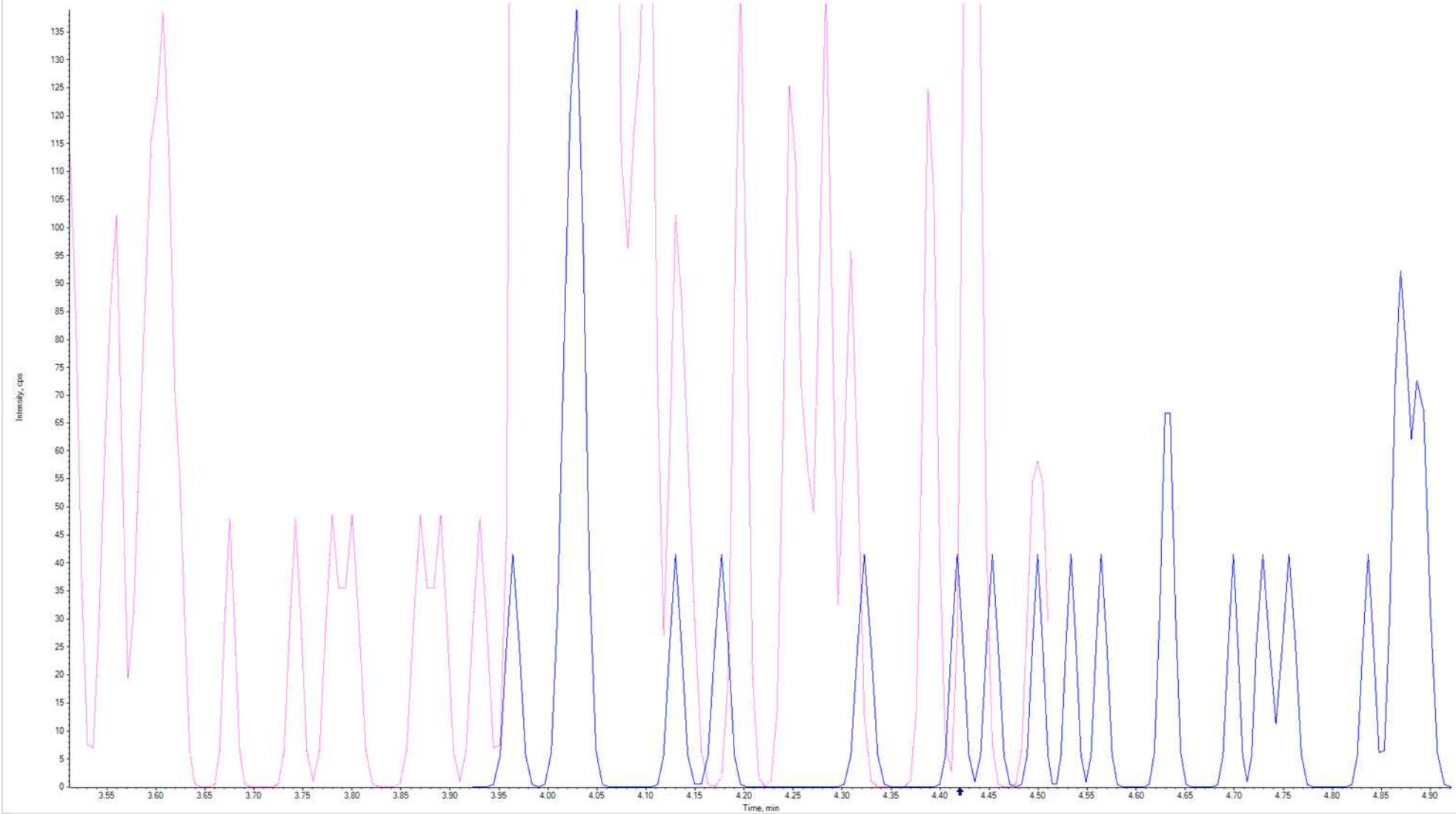
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PFOS_2
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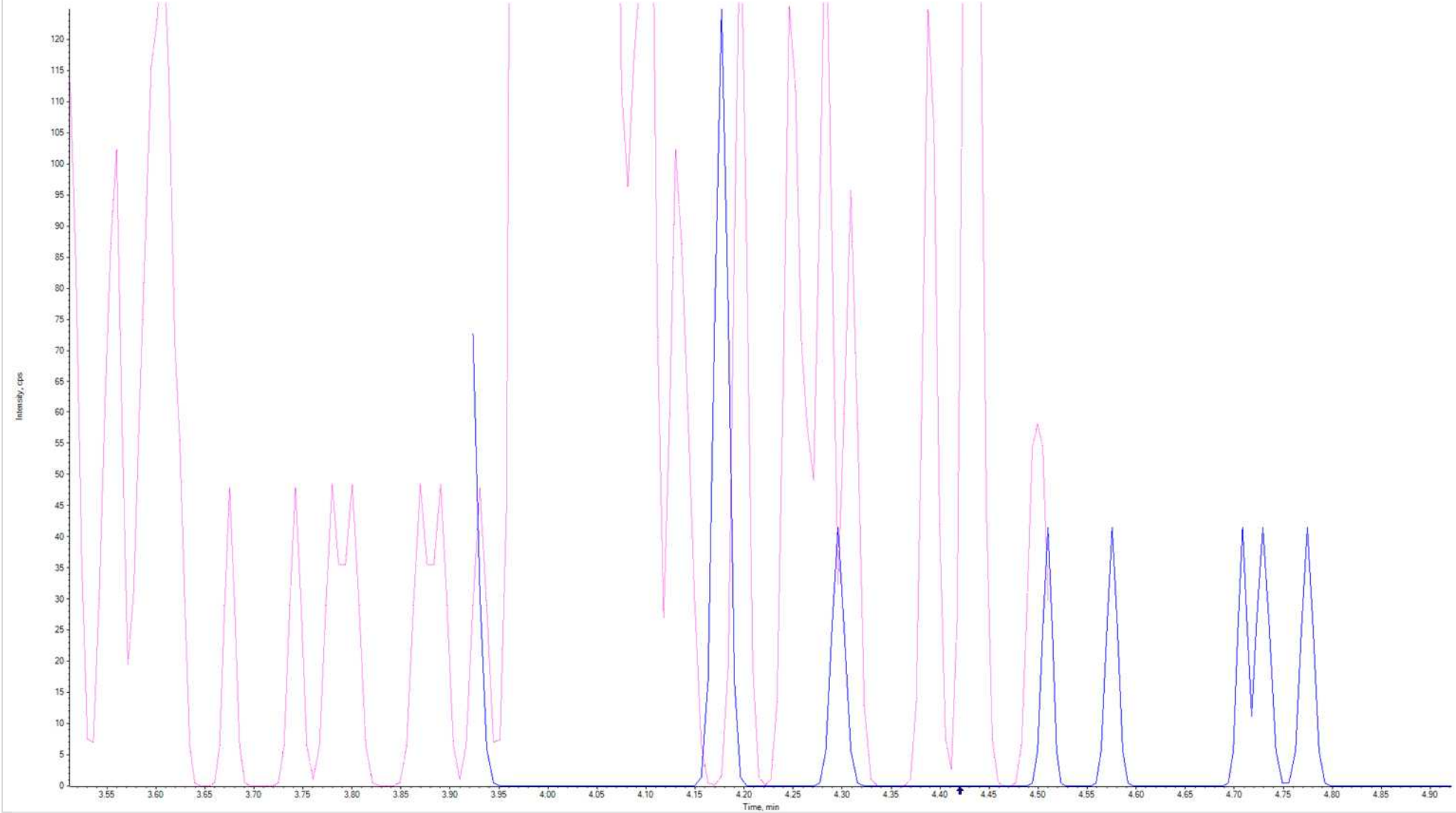
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PFNS
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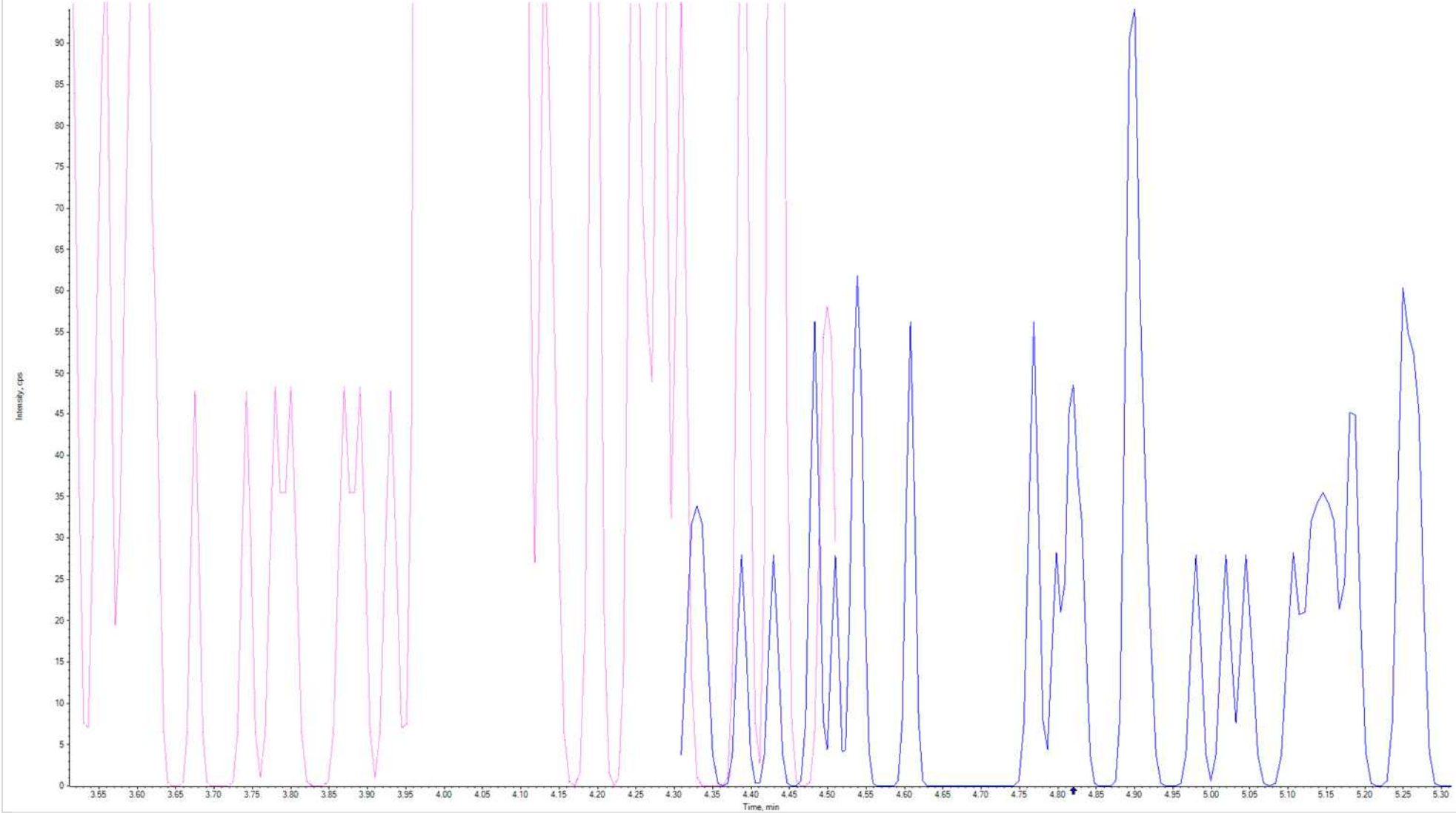
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PFNS_2
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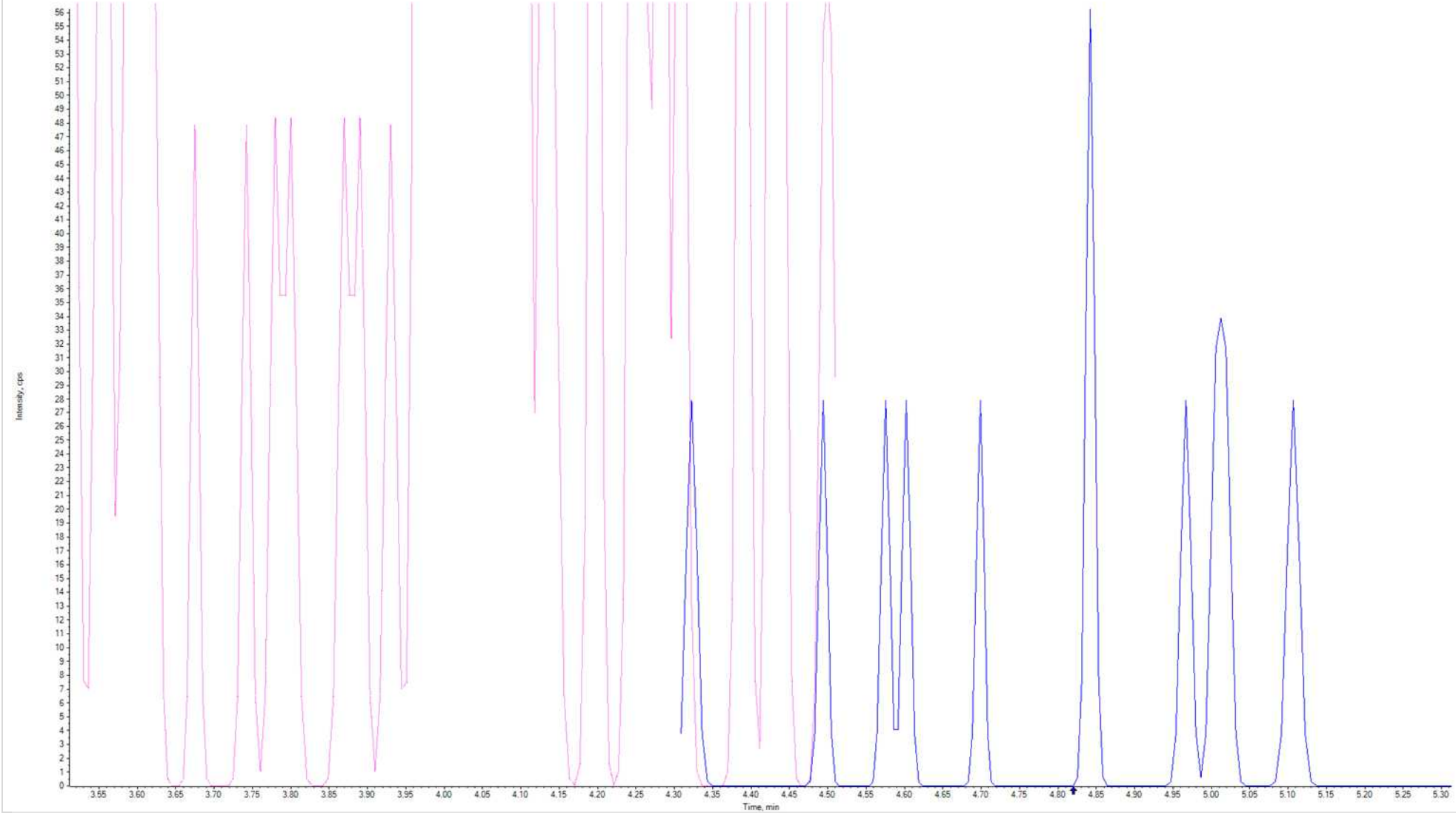
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PFDS
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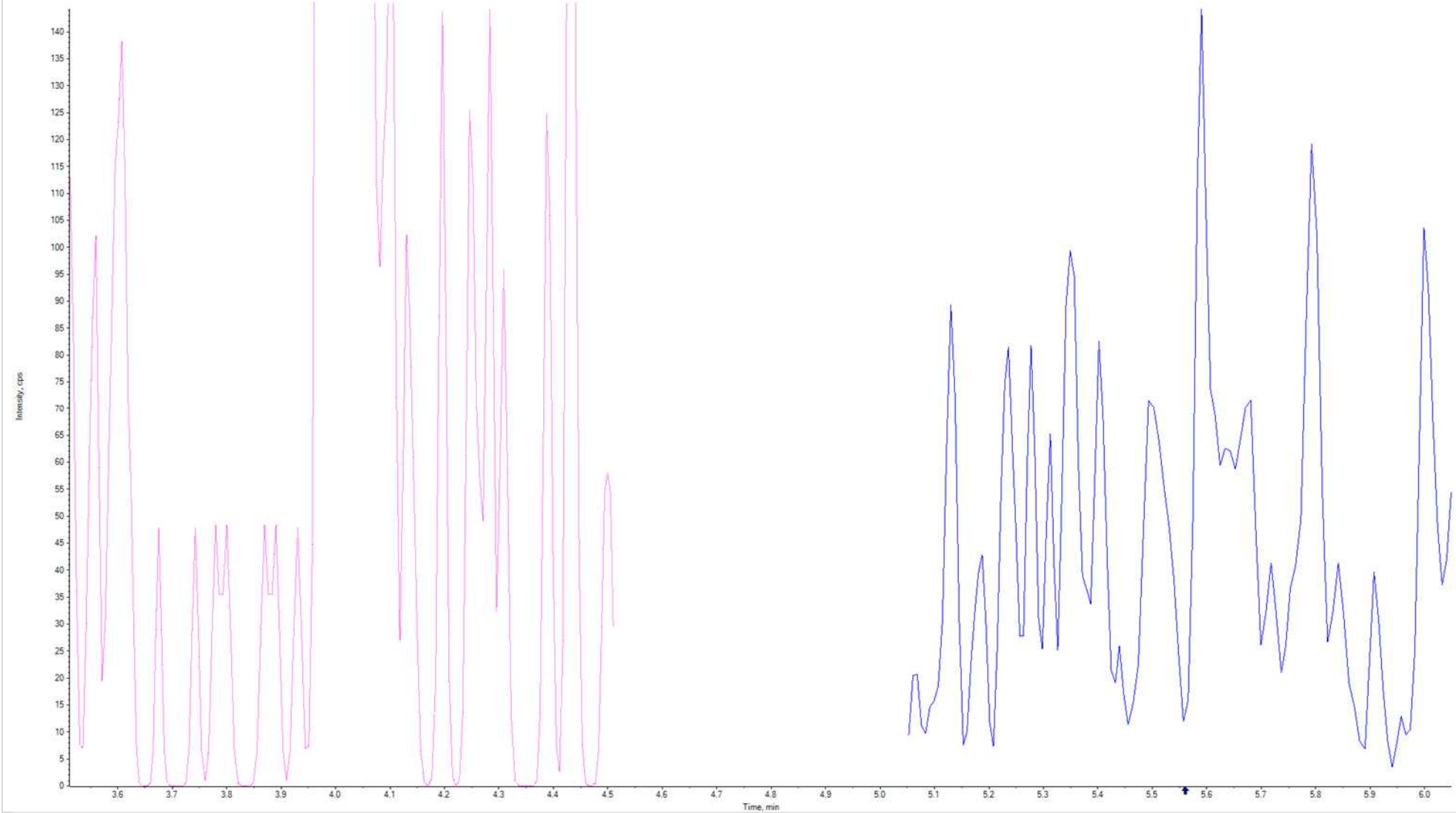
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PFDS_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



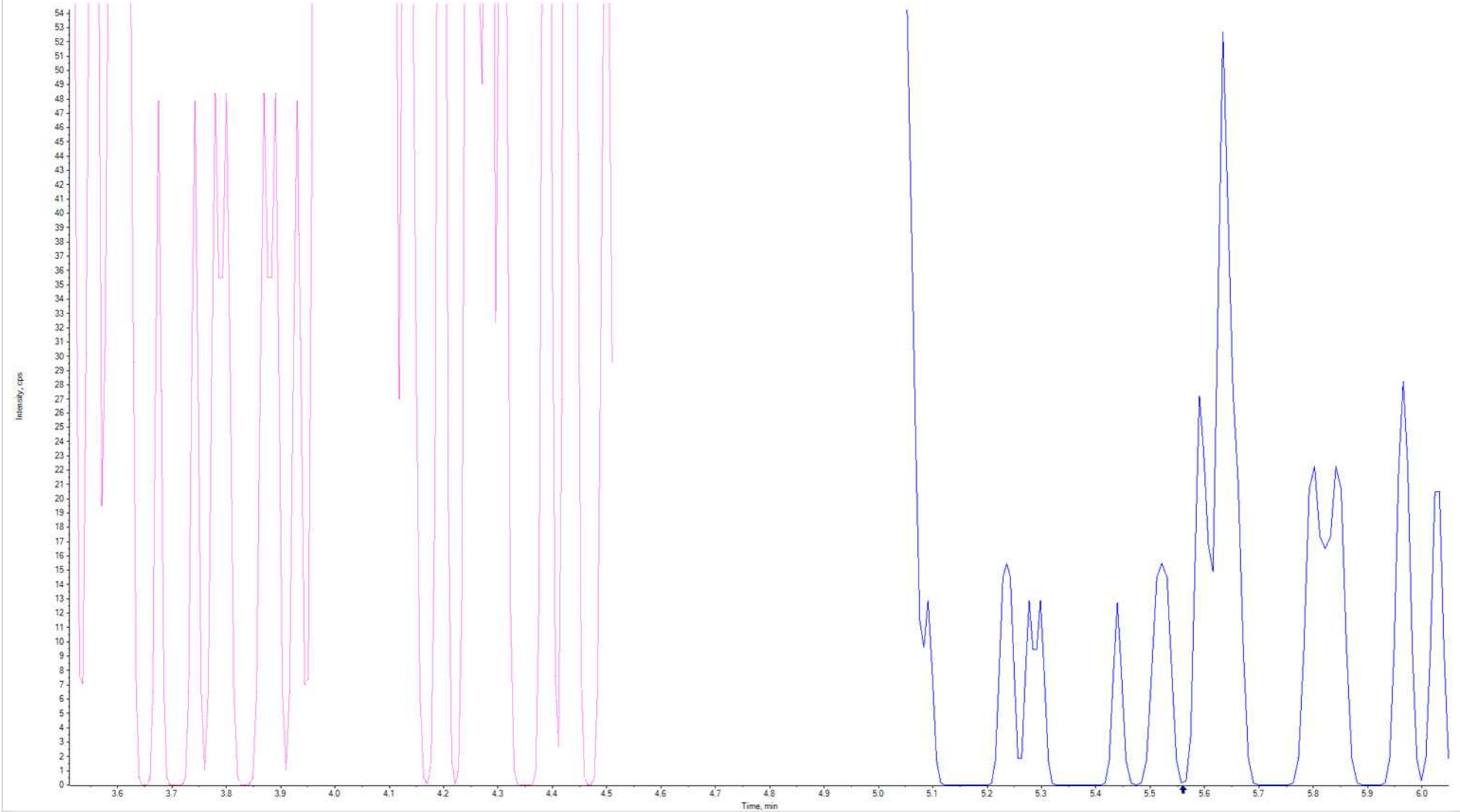
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PFDoS
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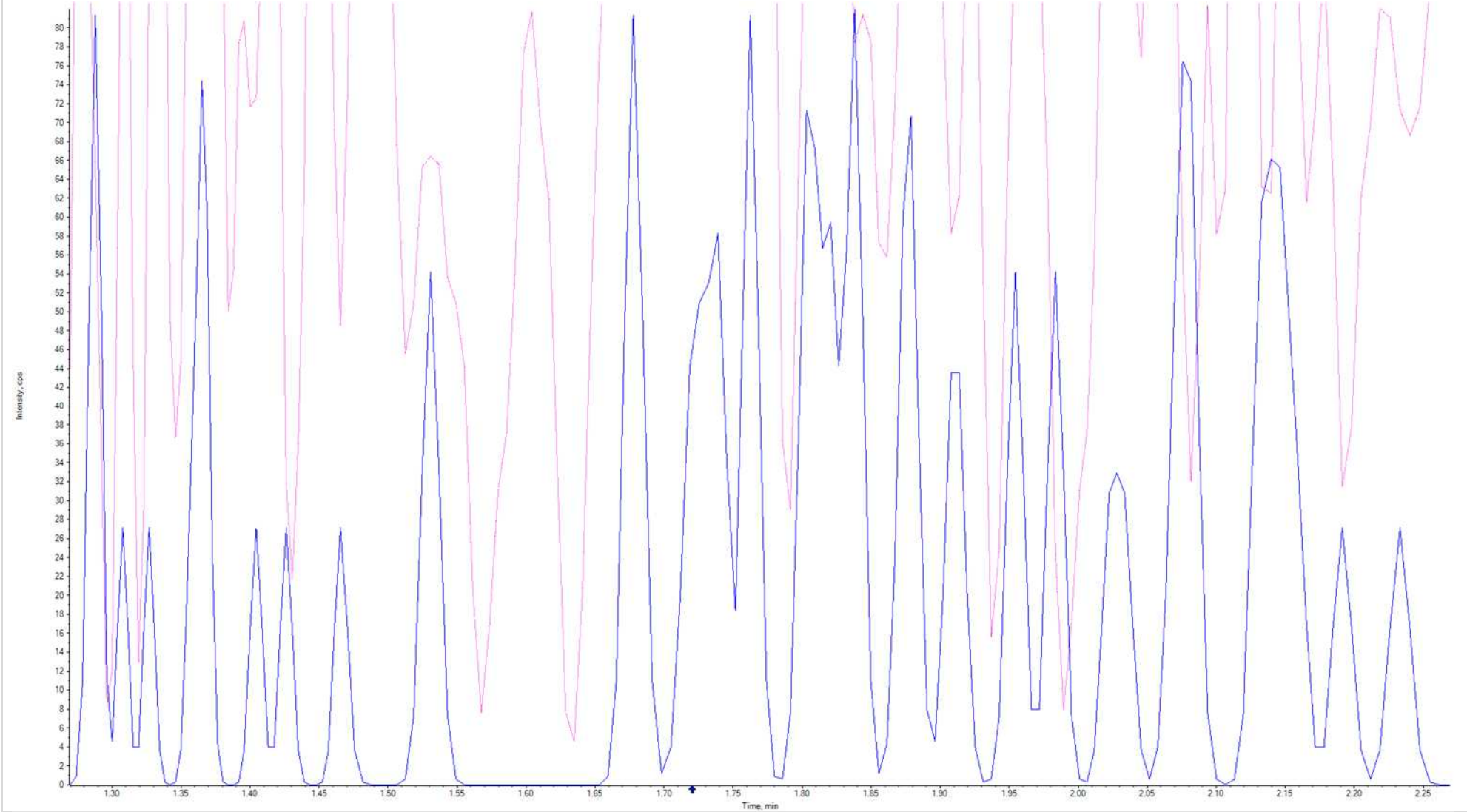
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PFDoS_2
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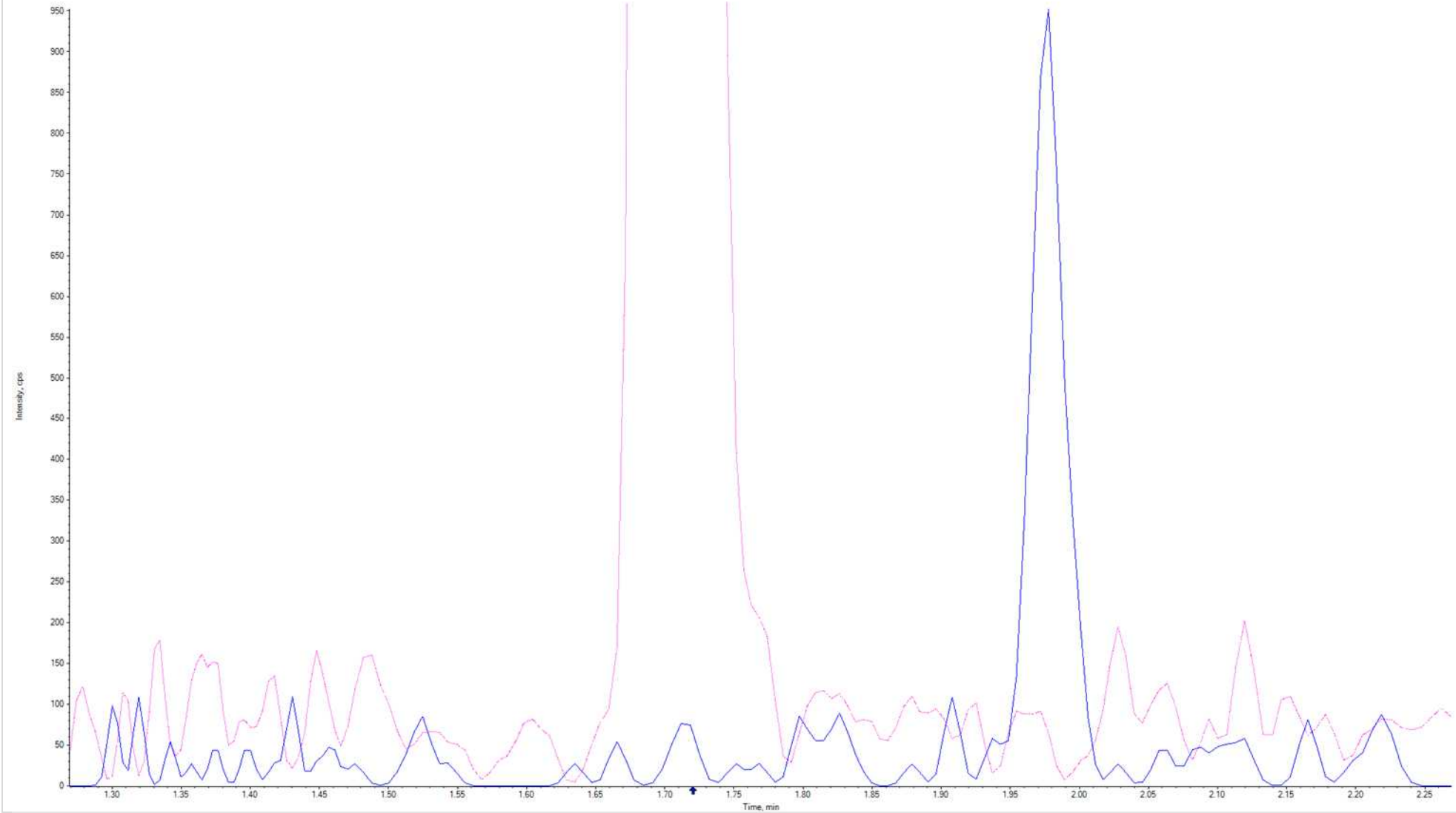
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4:2FTS
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

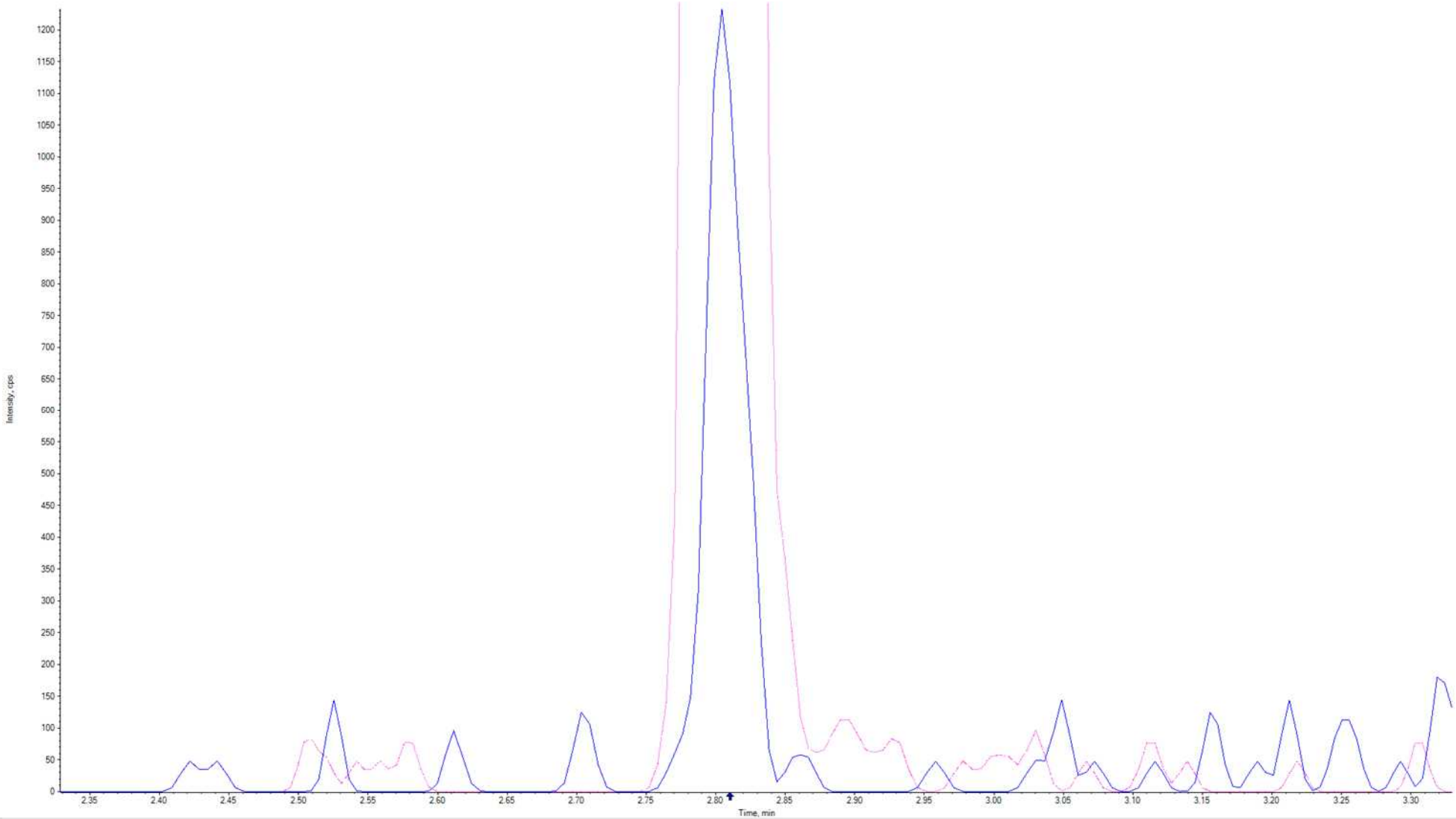


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4:2FTS_2
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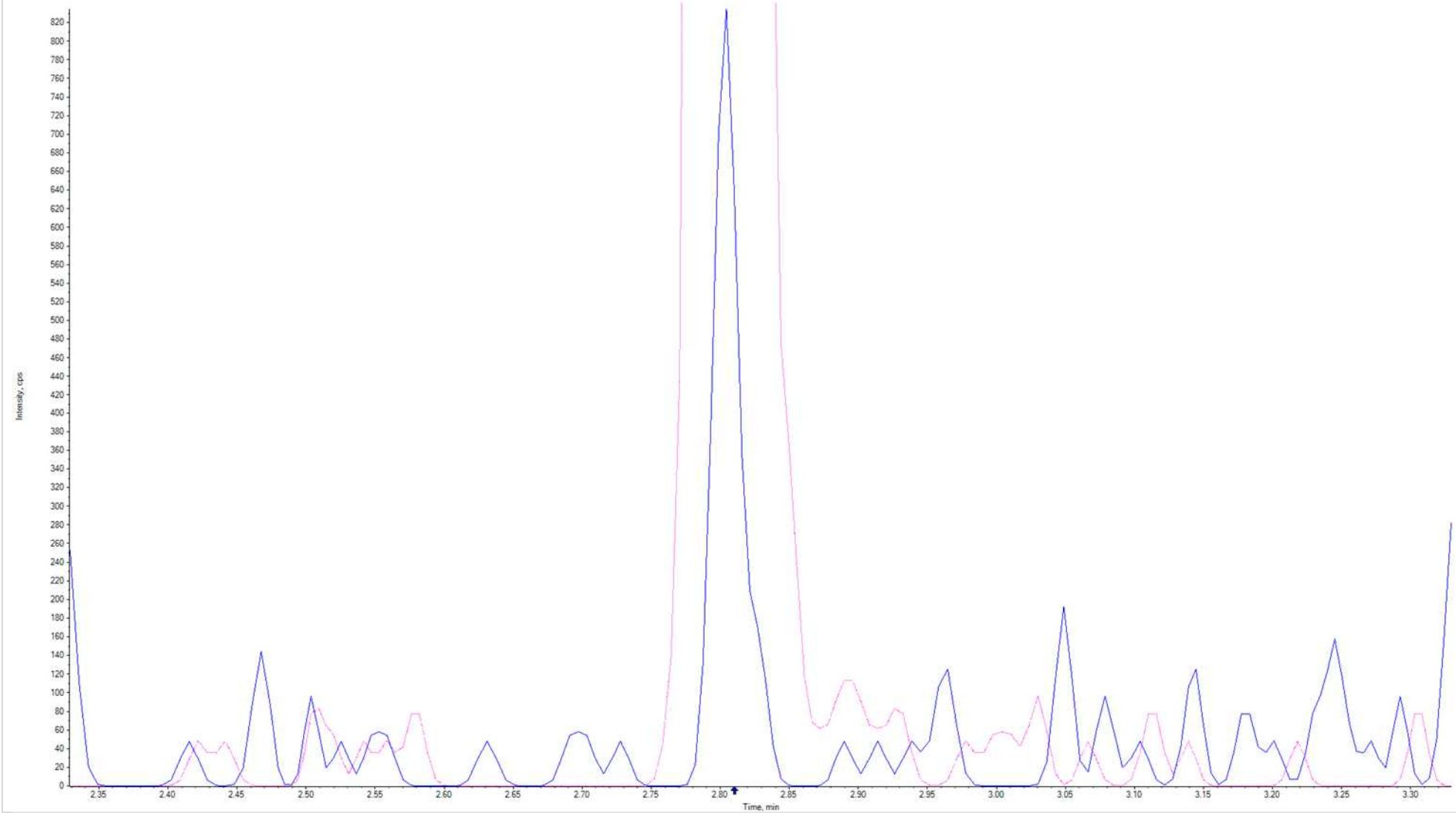


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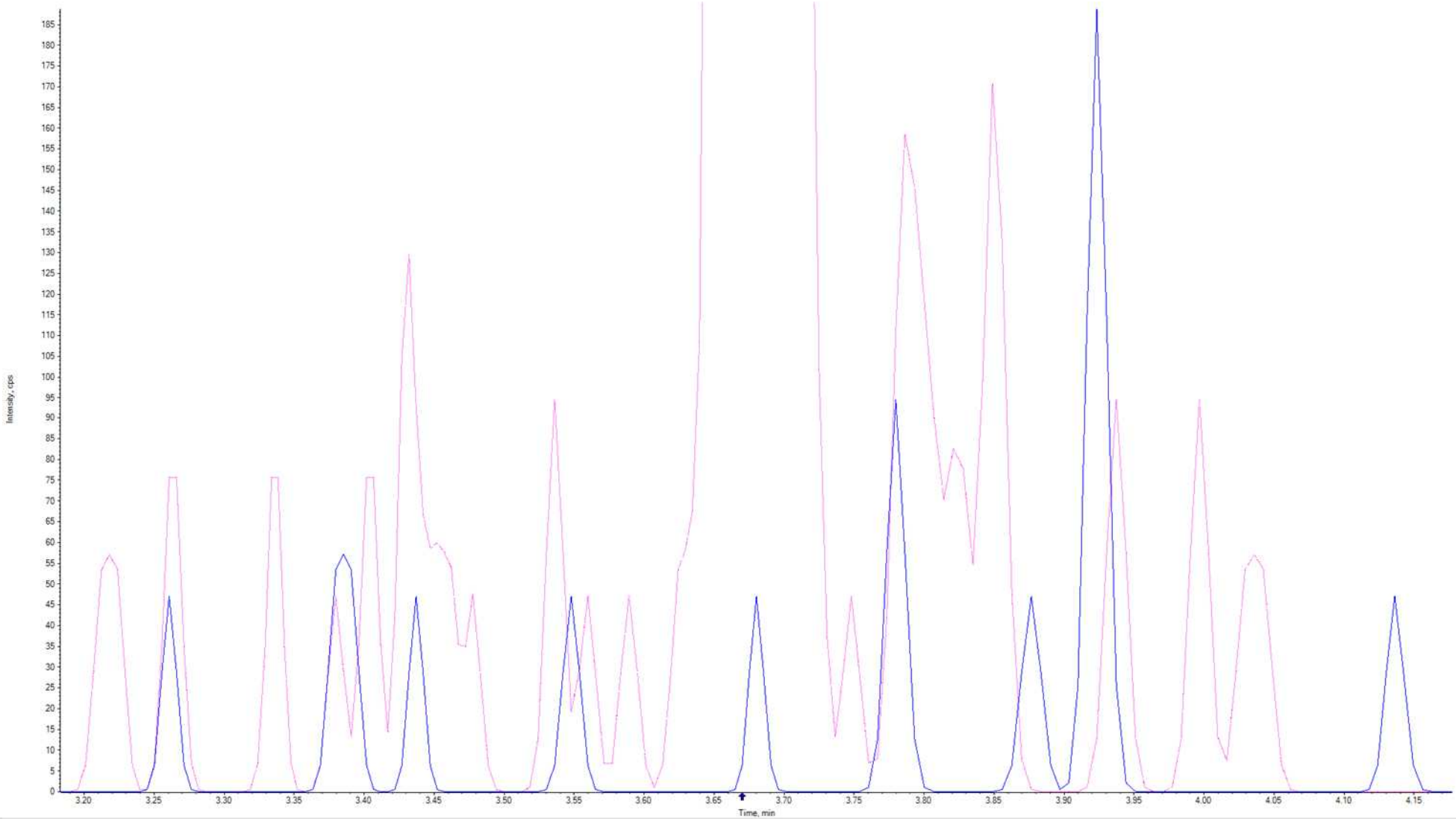


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6:2FTS_2
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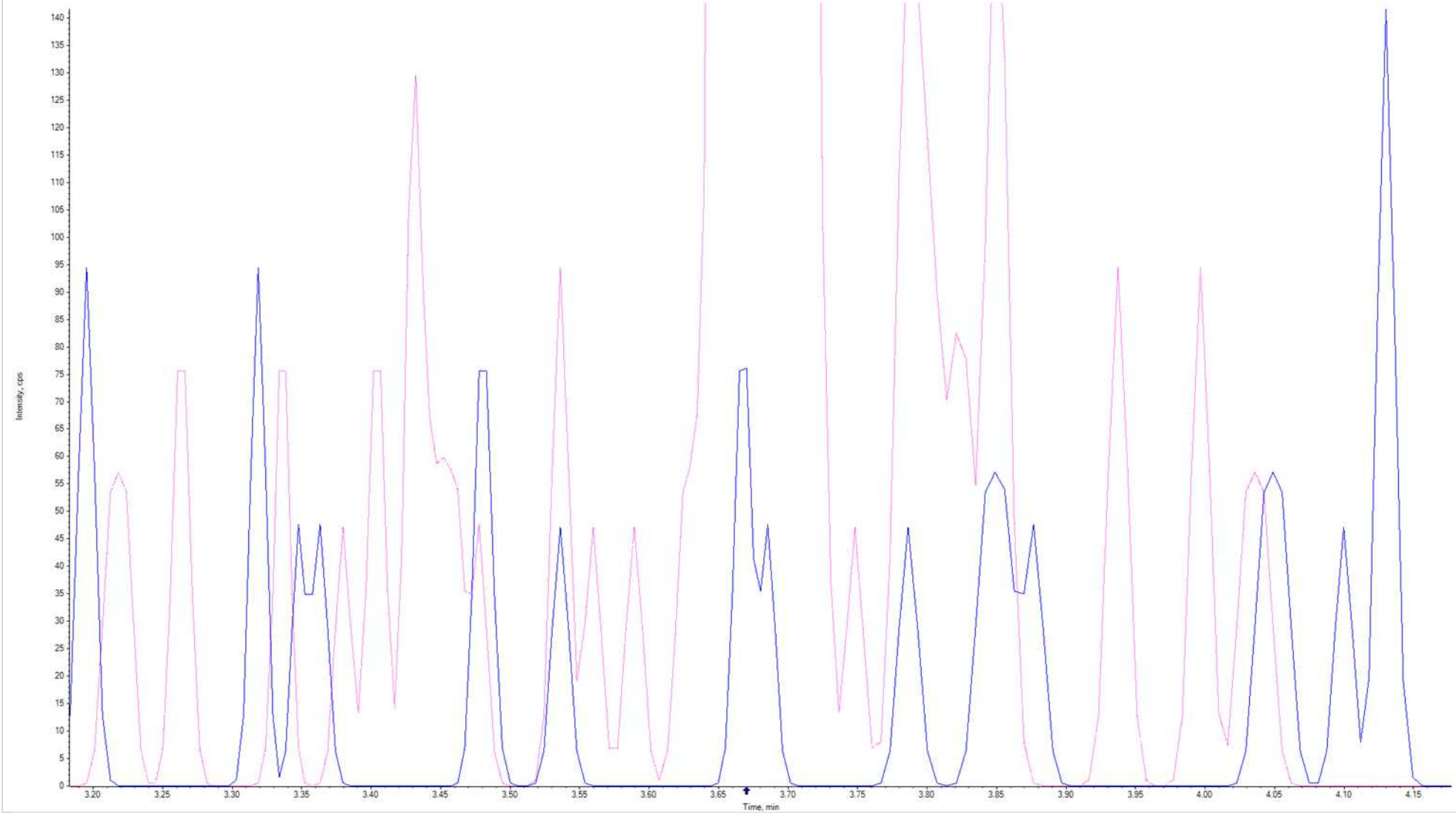


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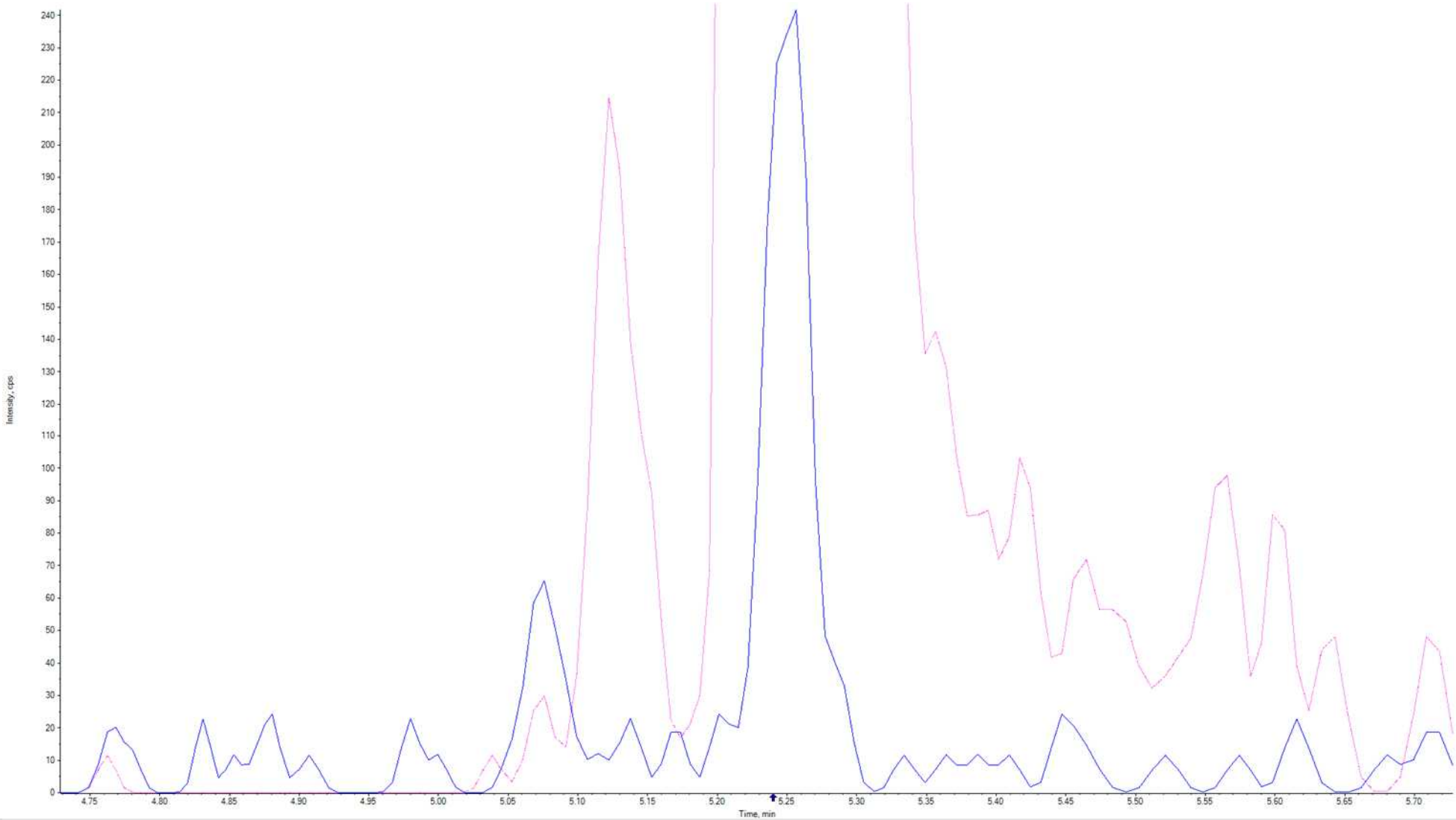


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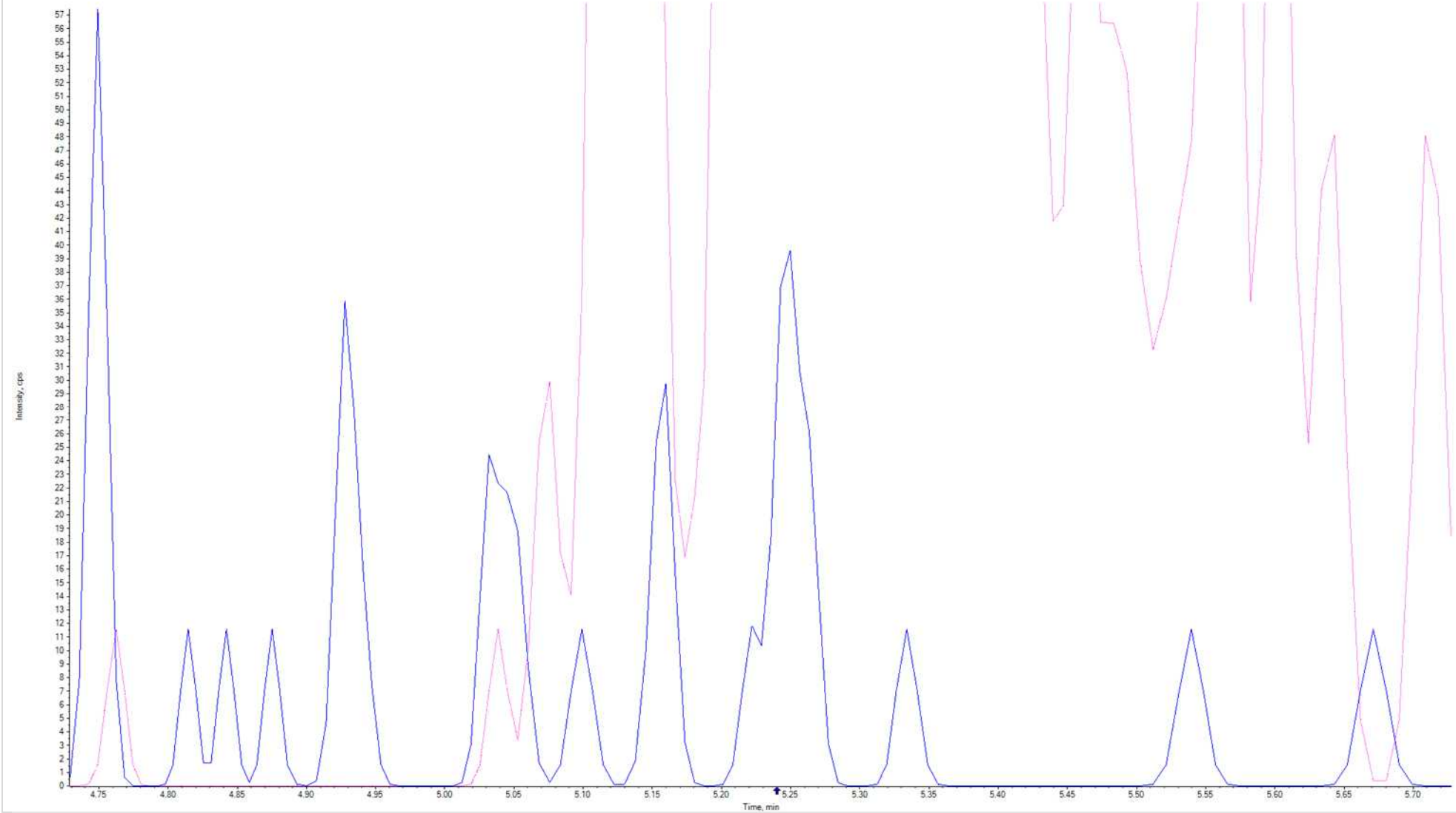


PFOSA
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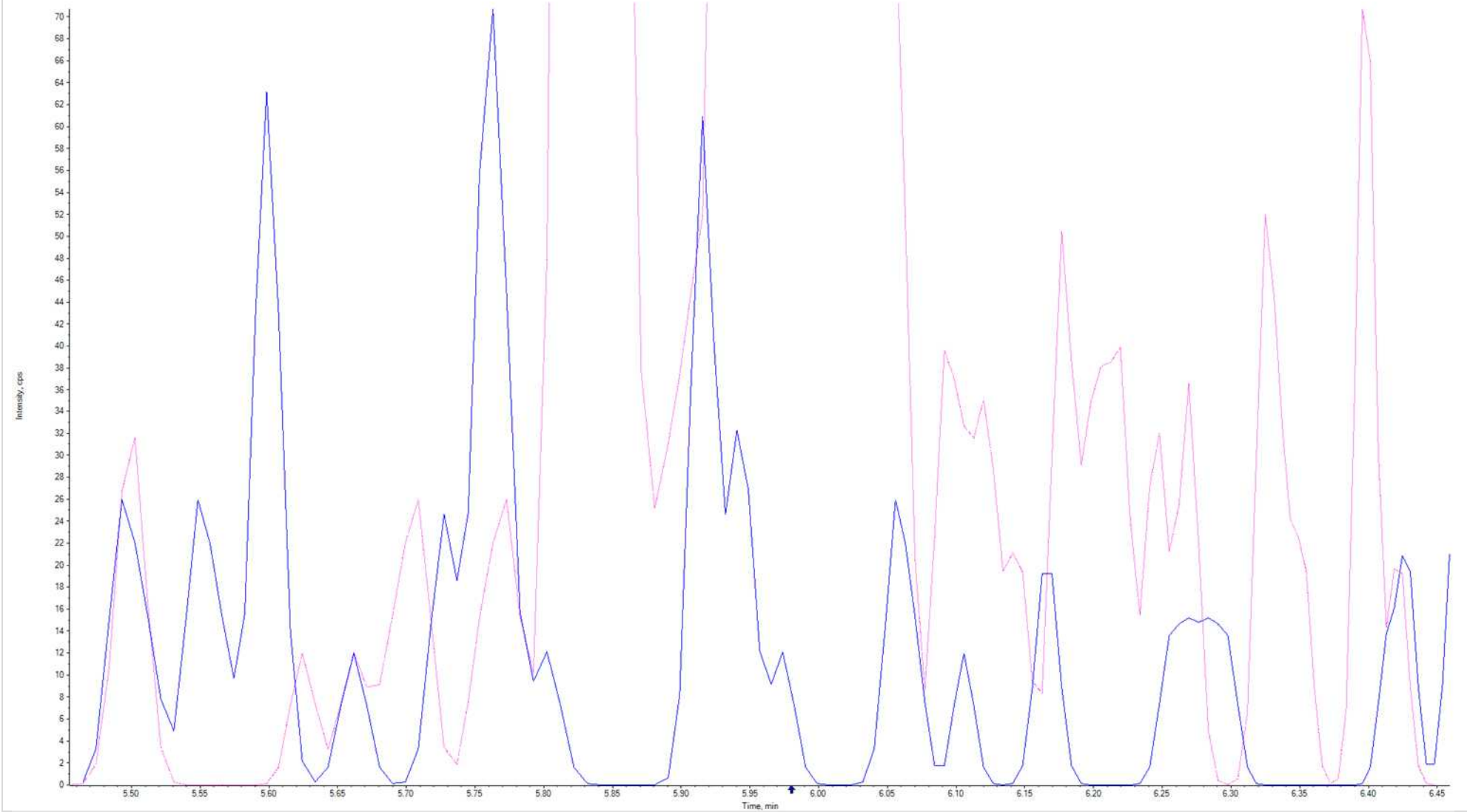


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PFOSA_2
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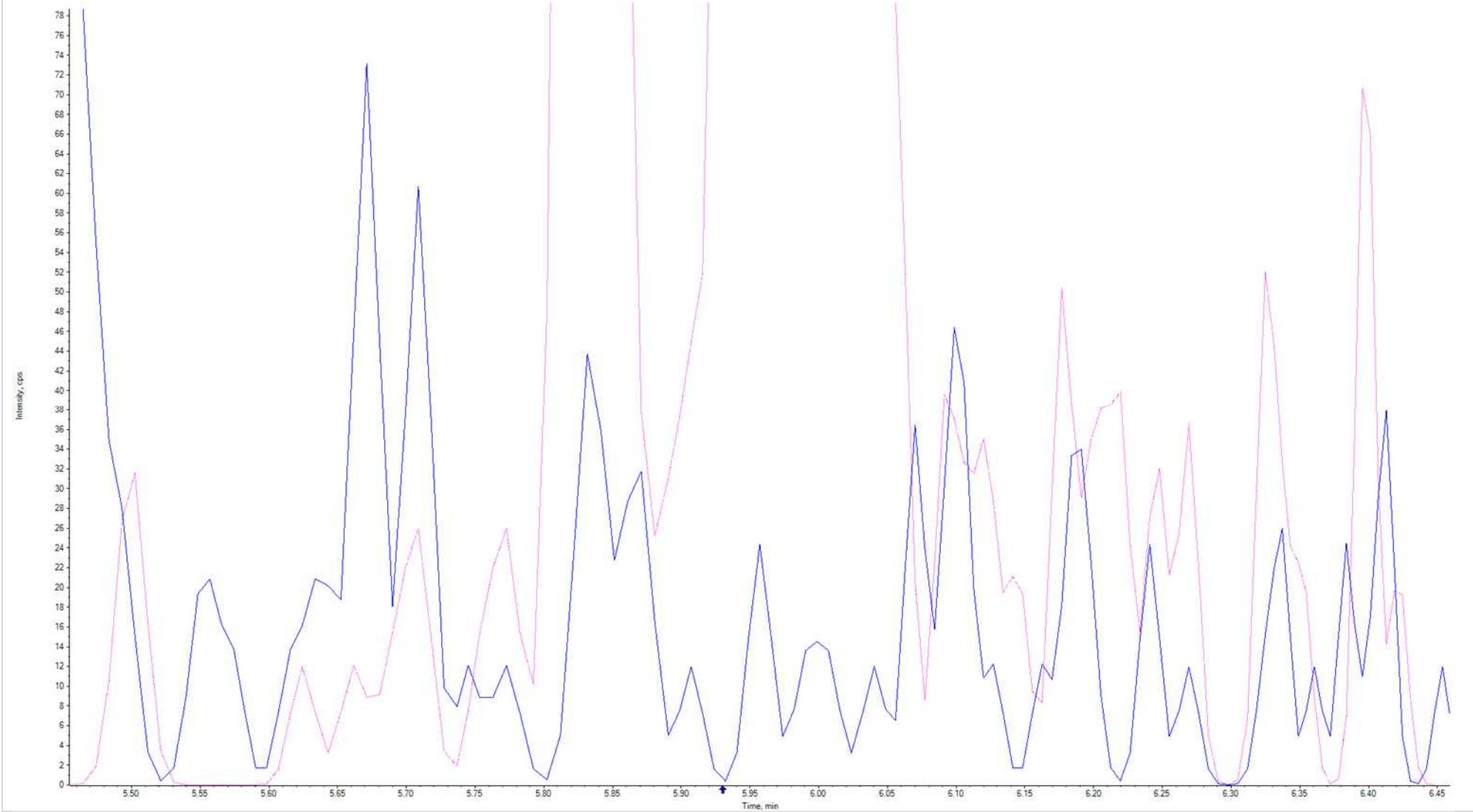


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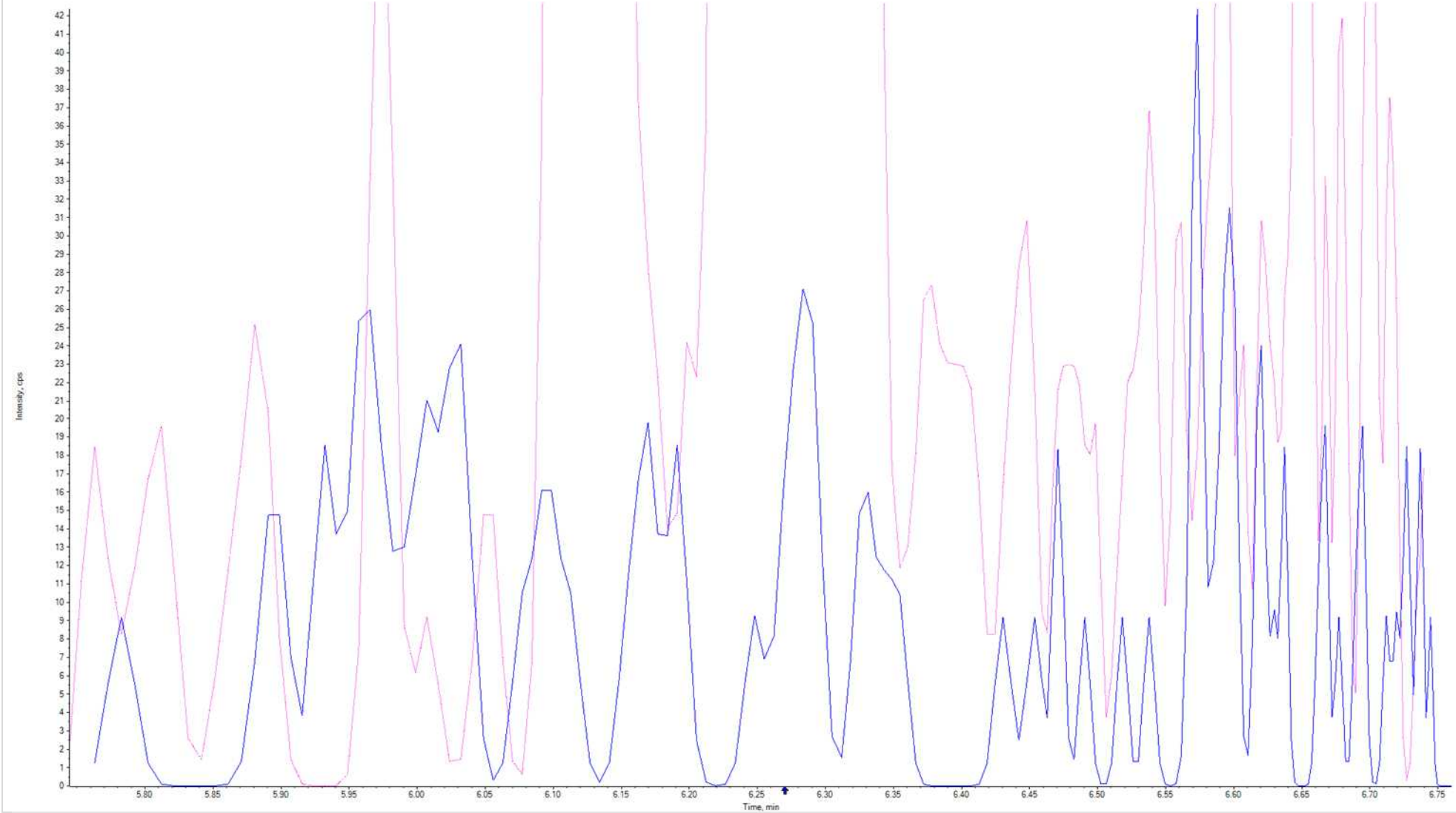
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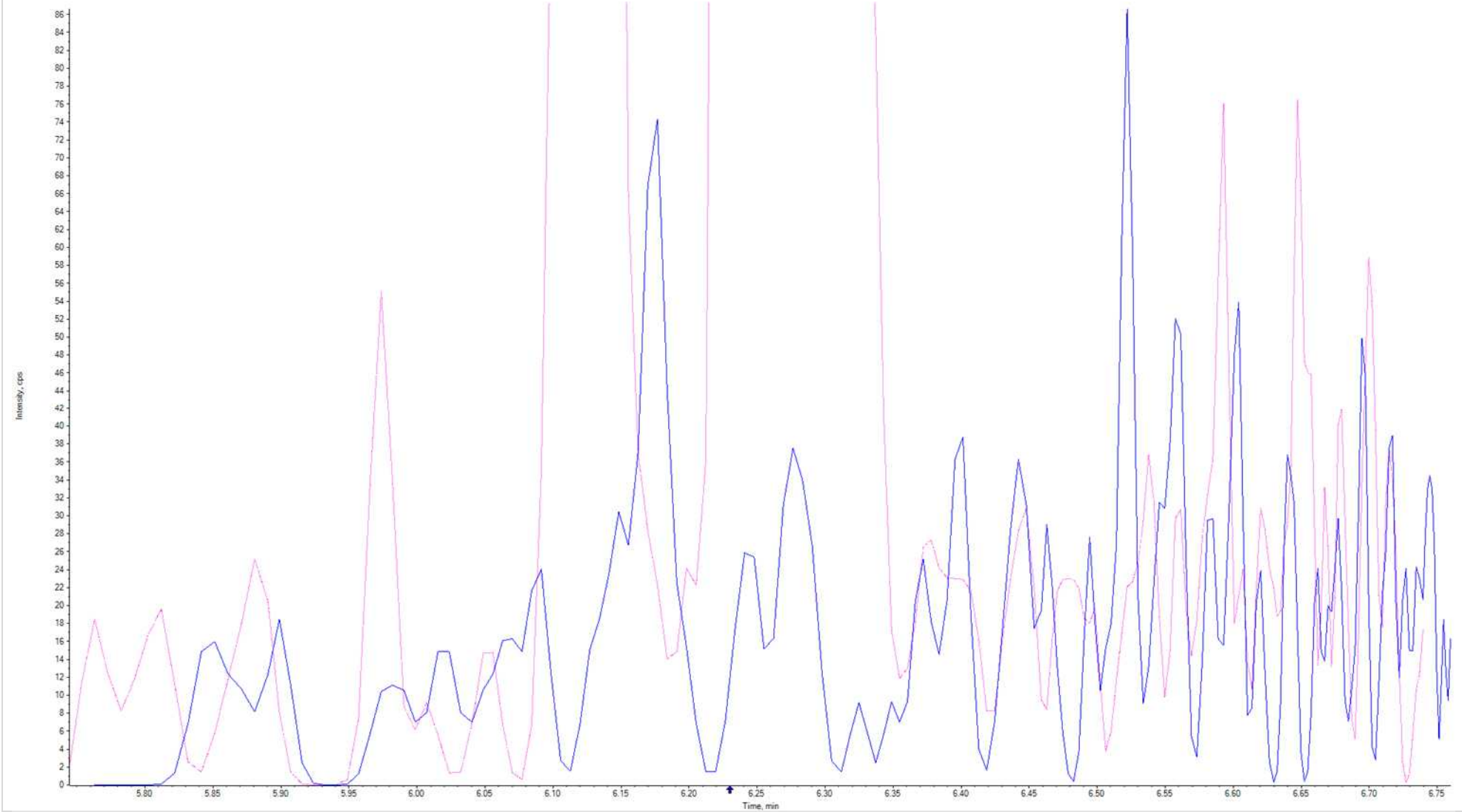
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NEtFOSA
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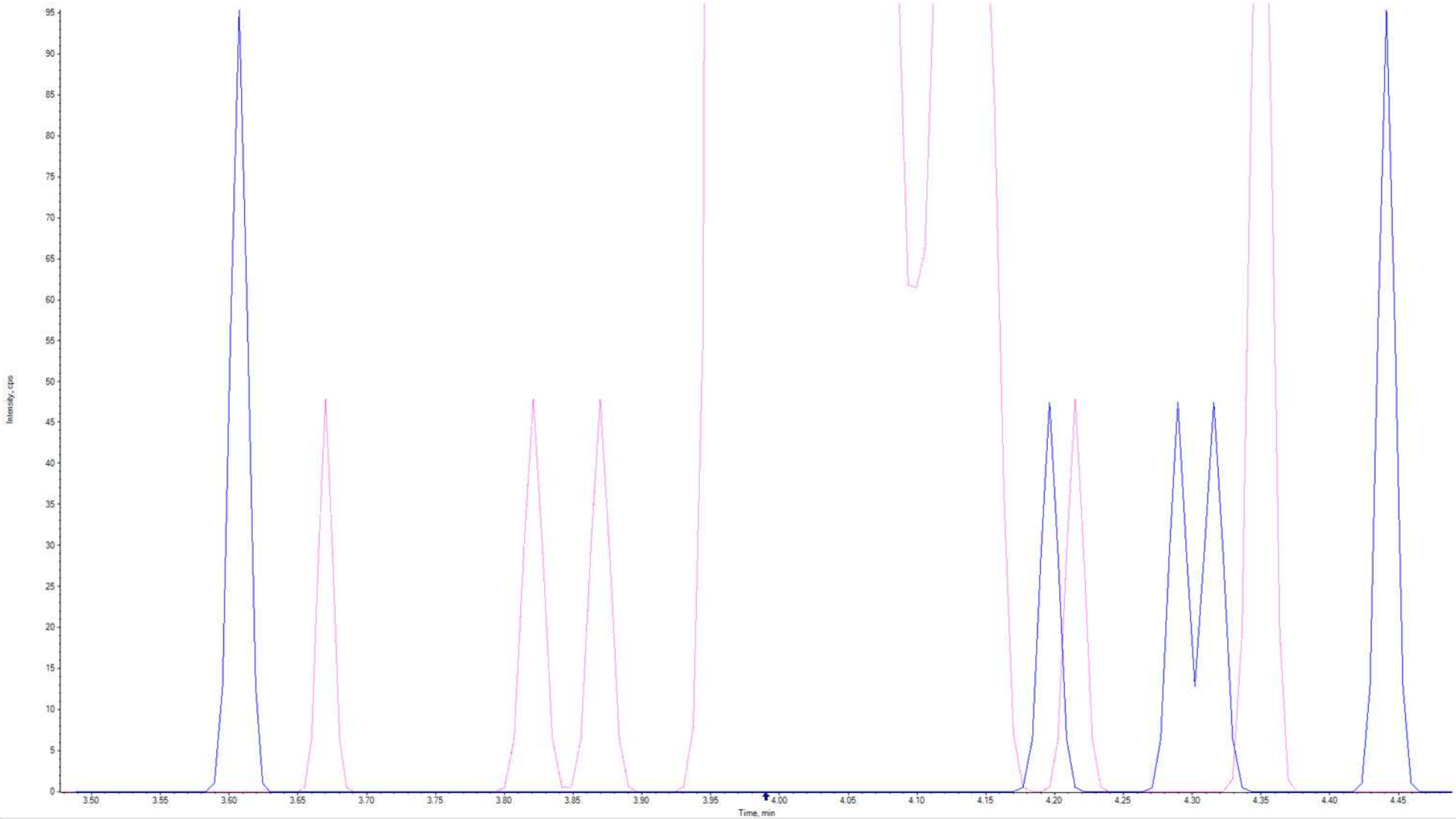


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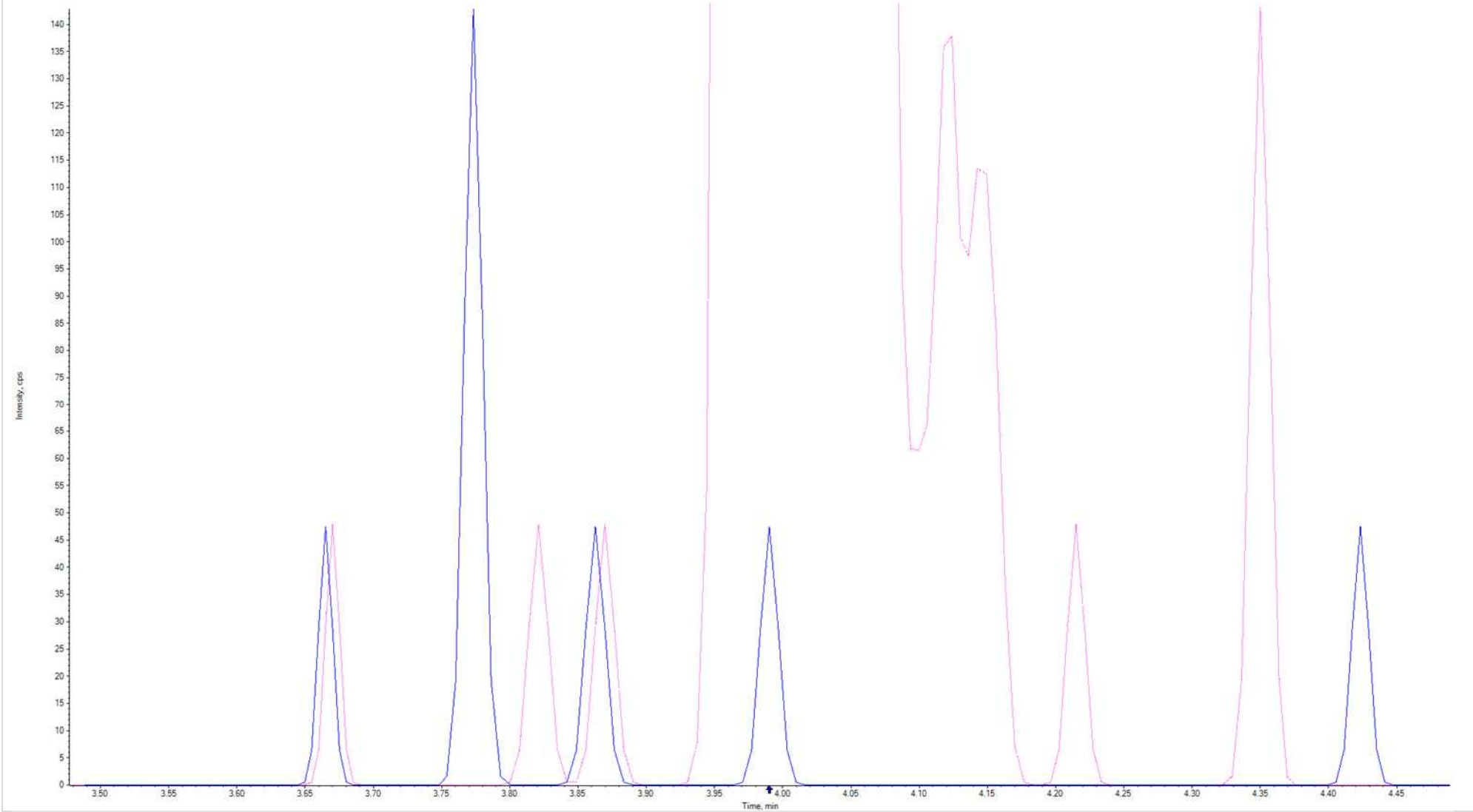


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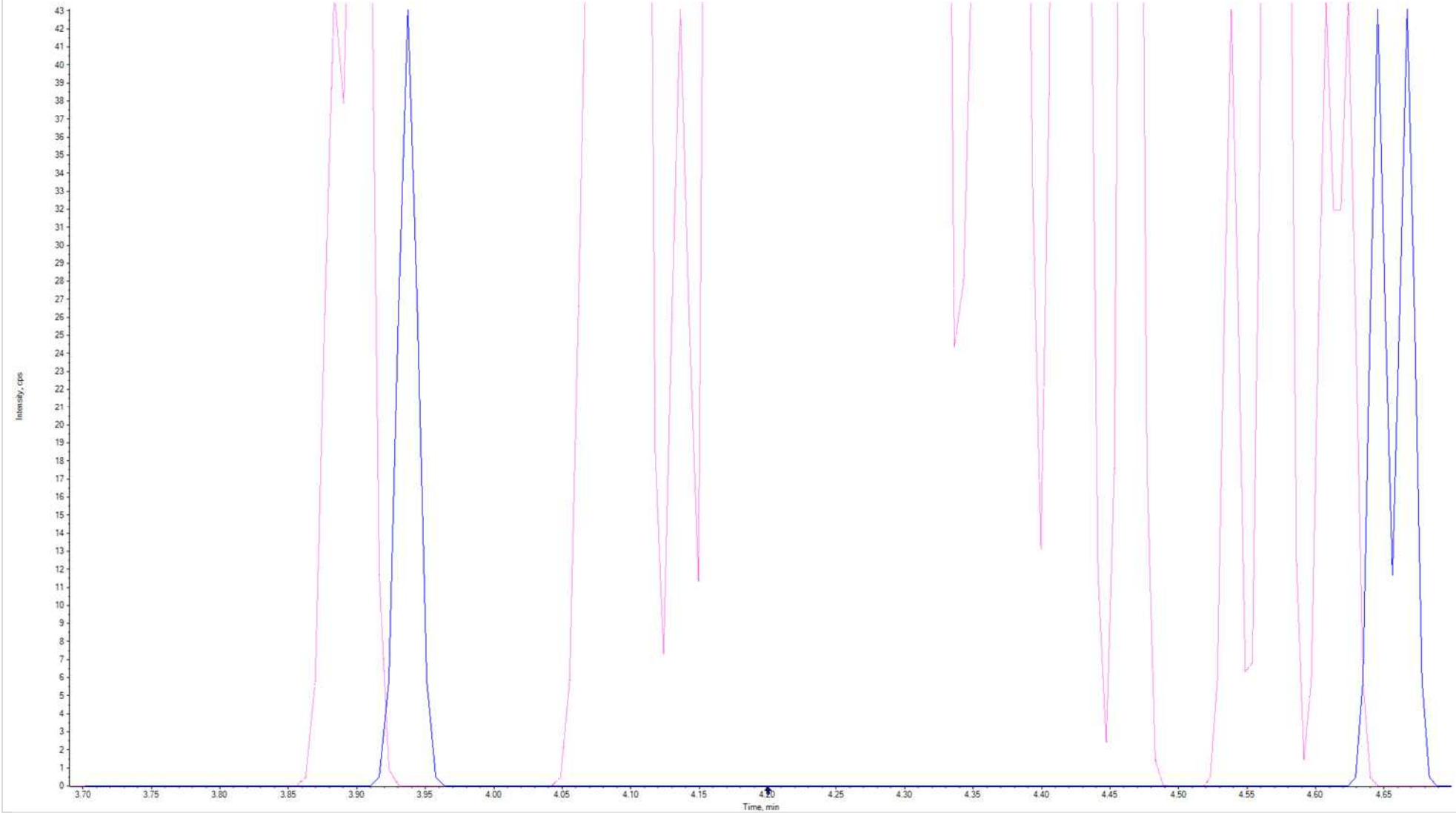
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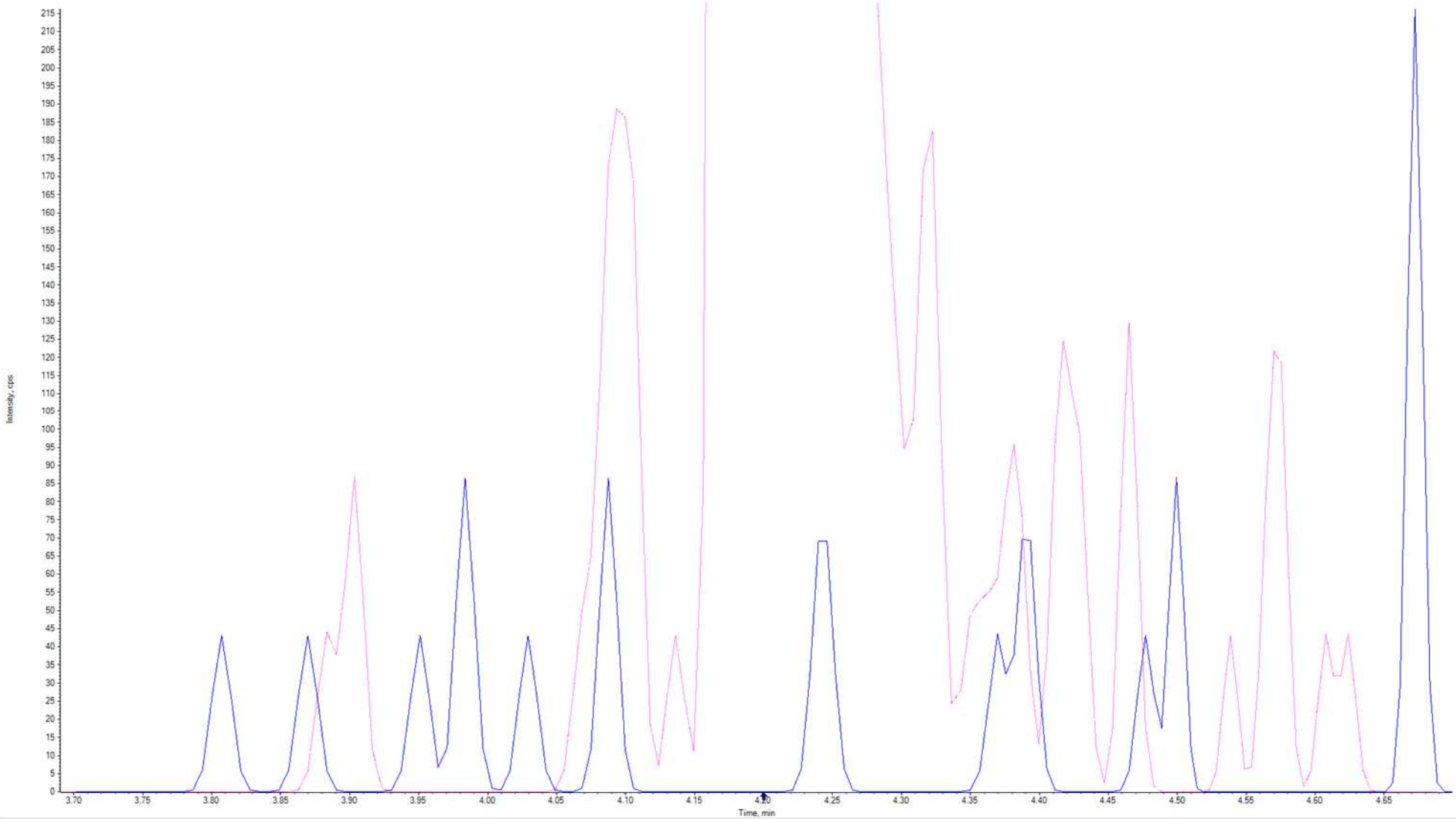


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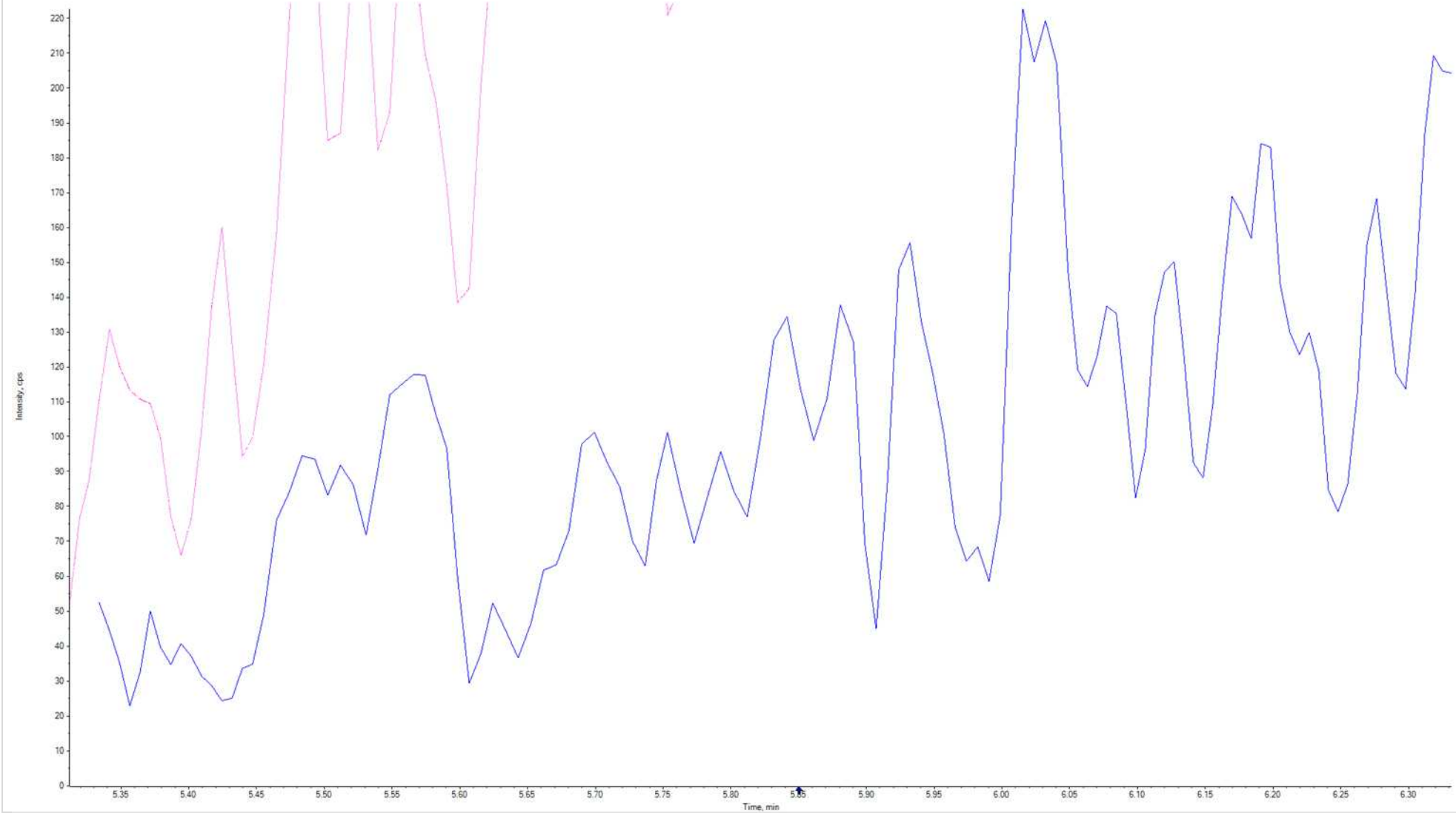
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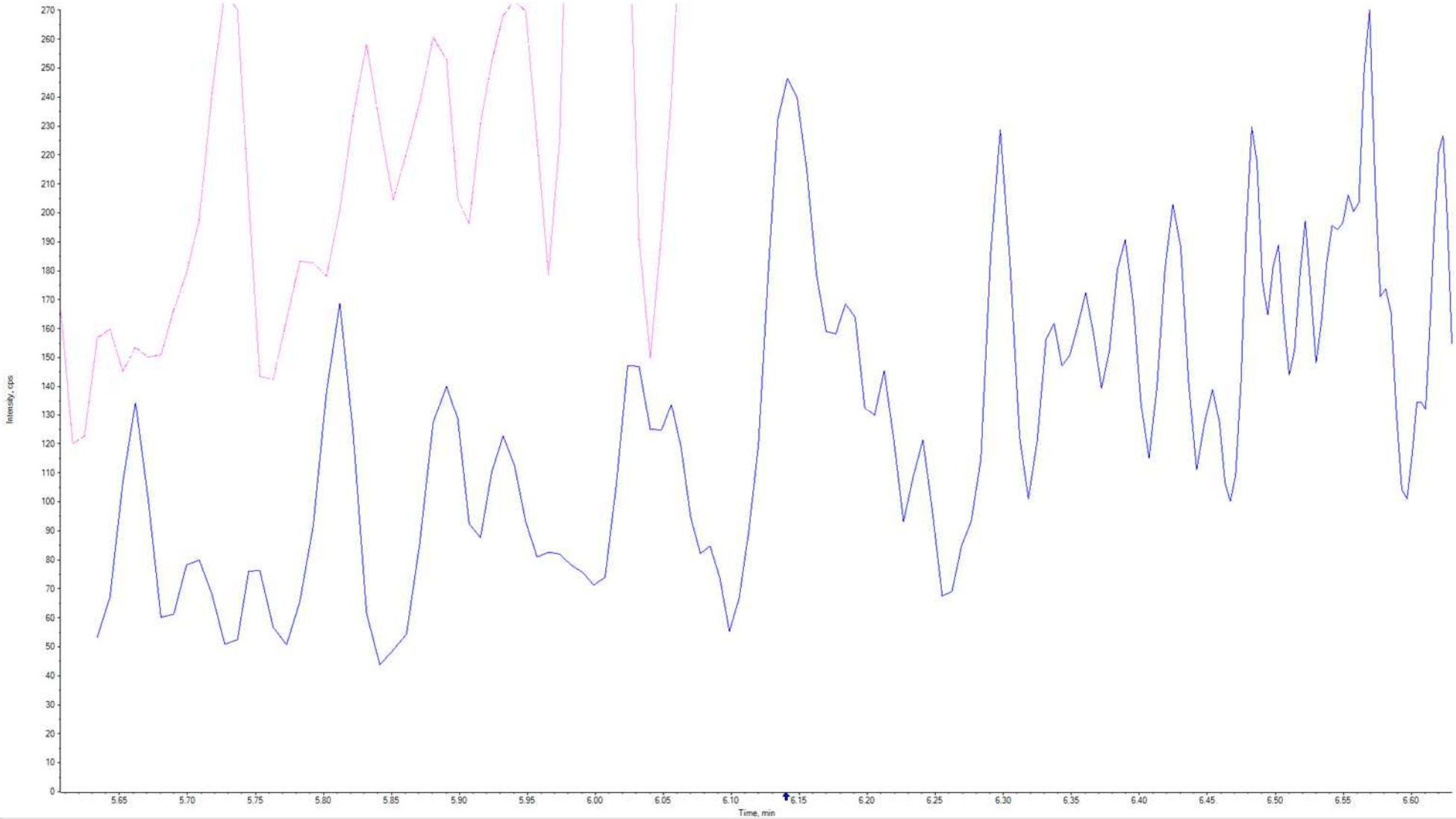
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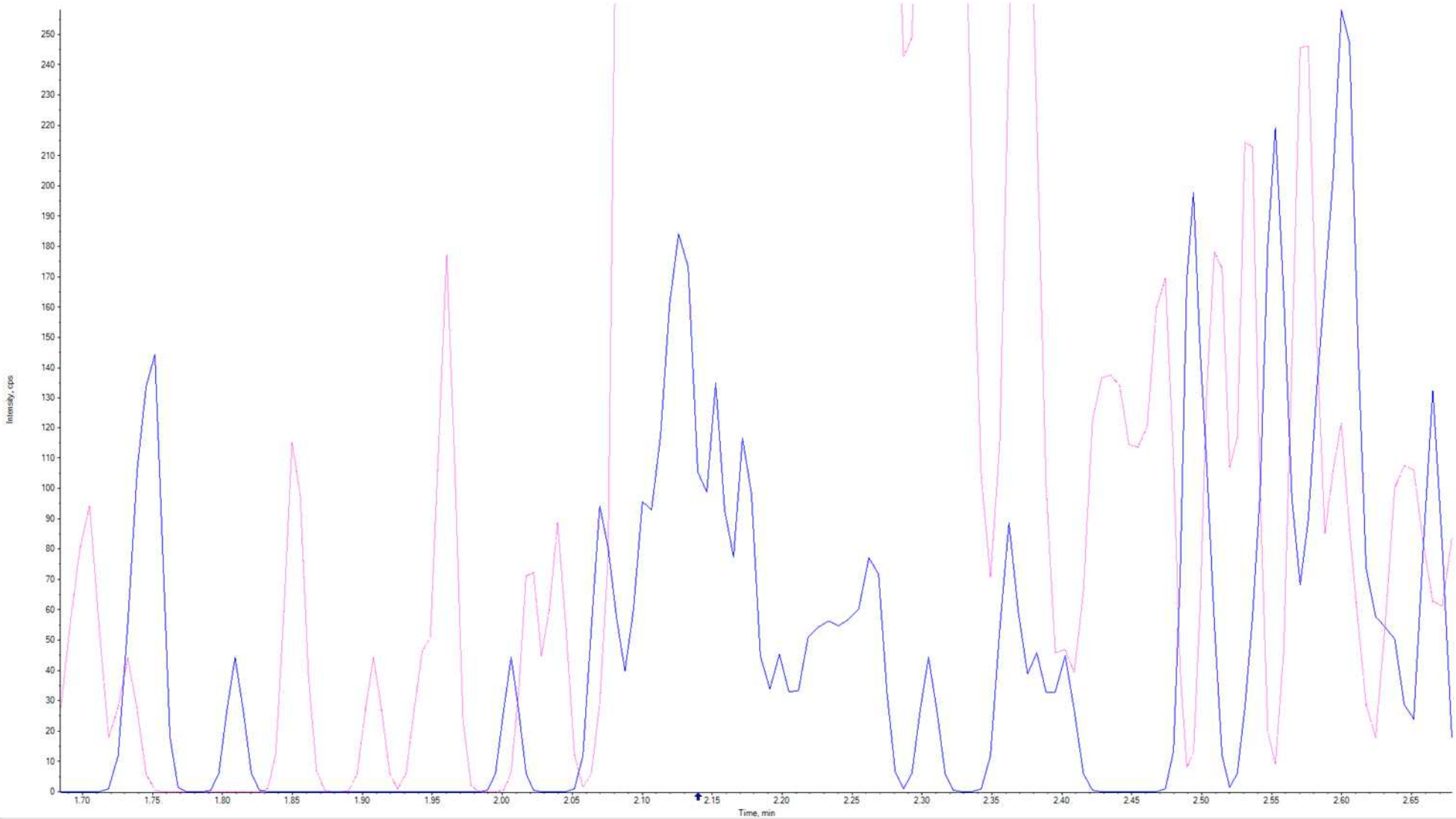
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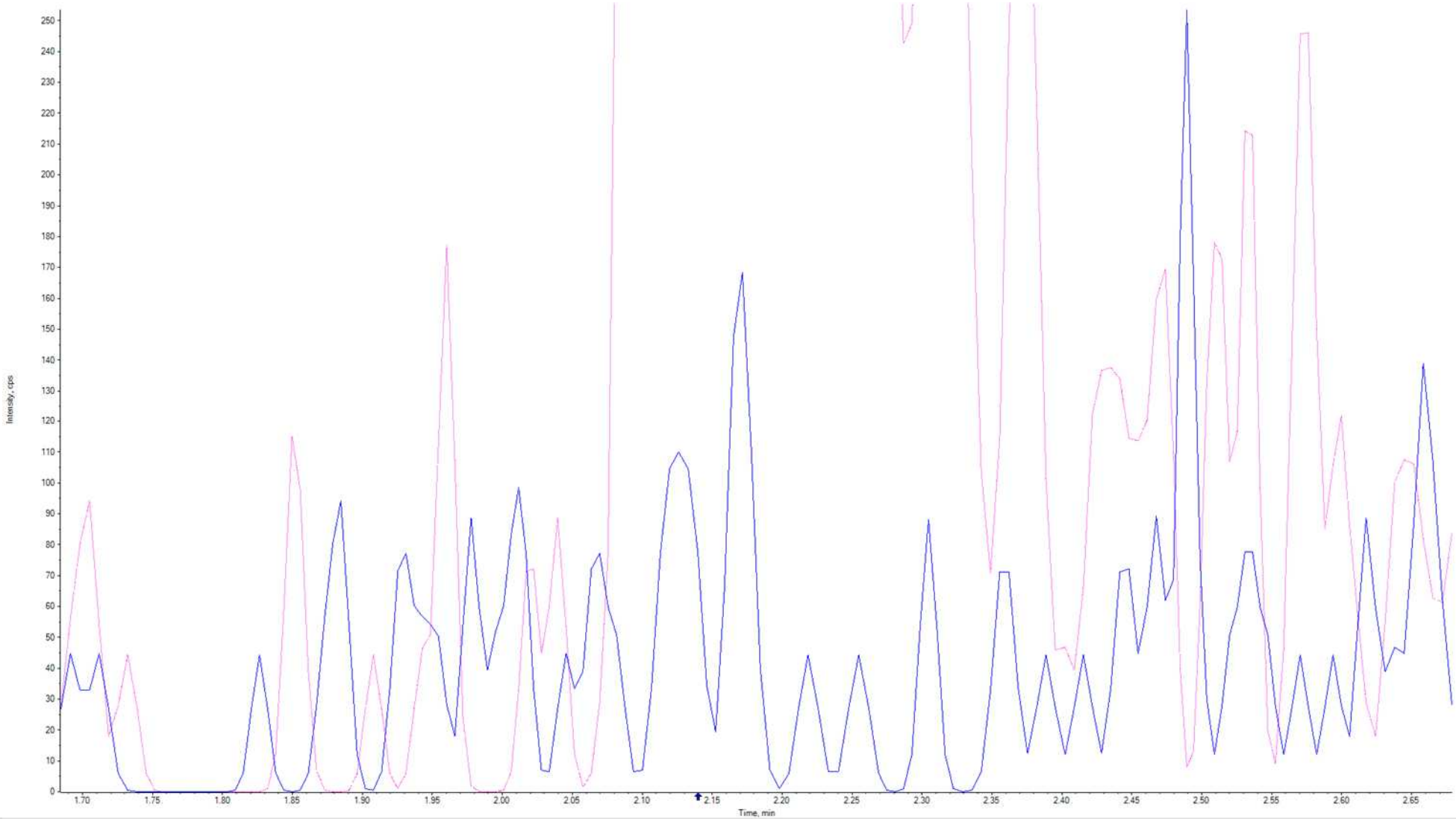
NEtFOSE
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



HFPO-DA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

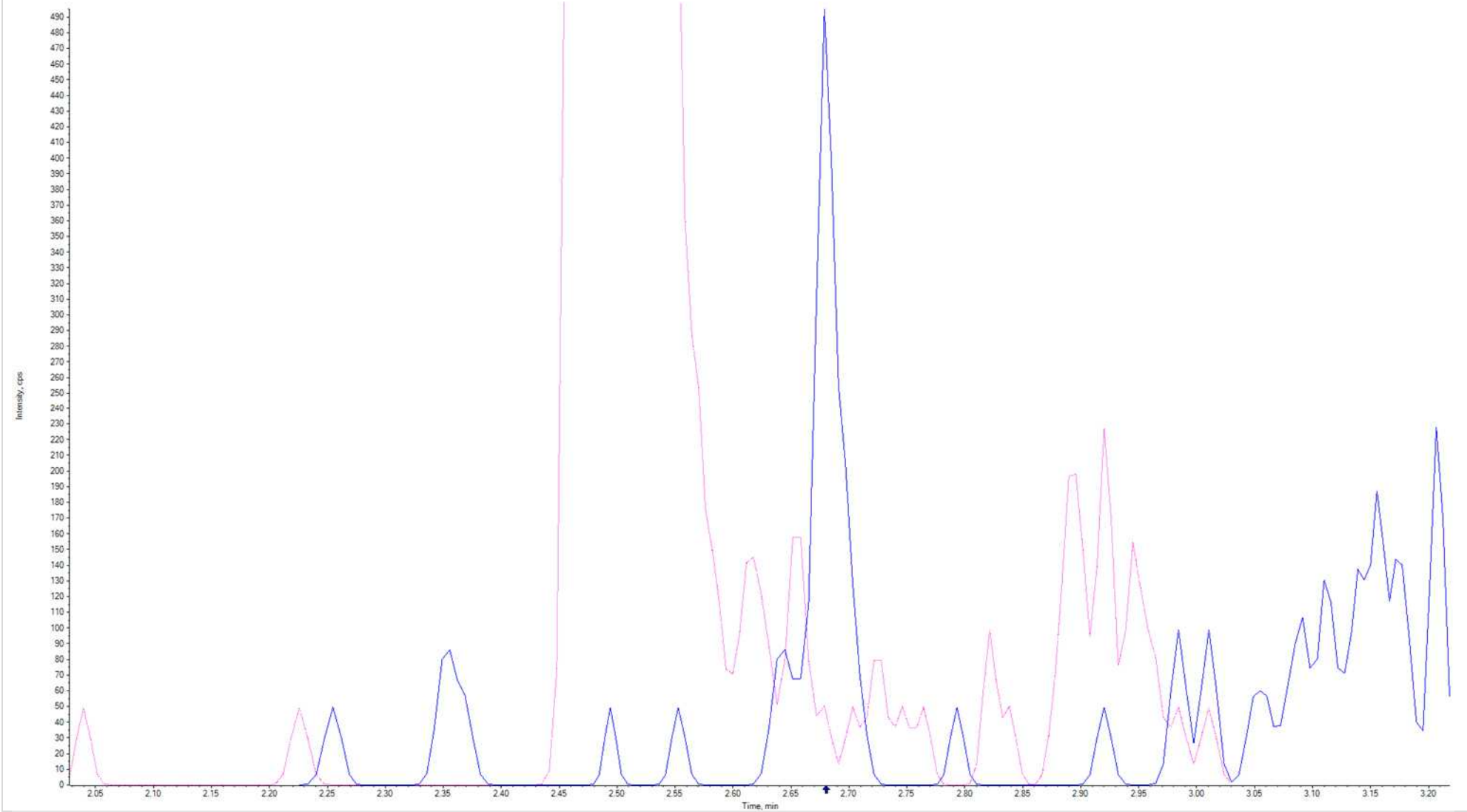


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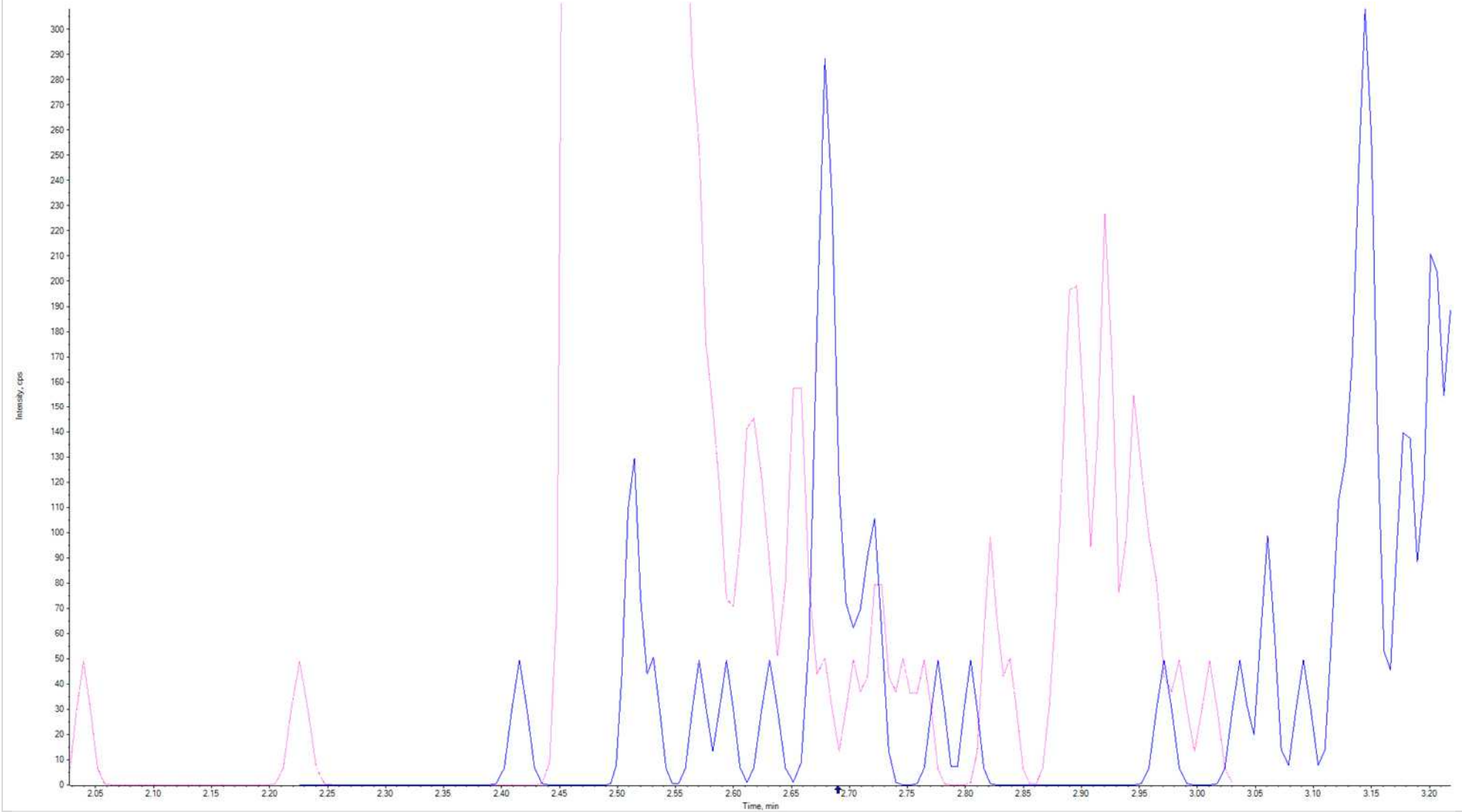


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ADONA
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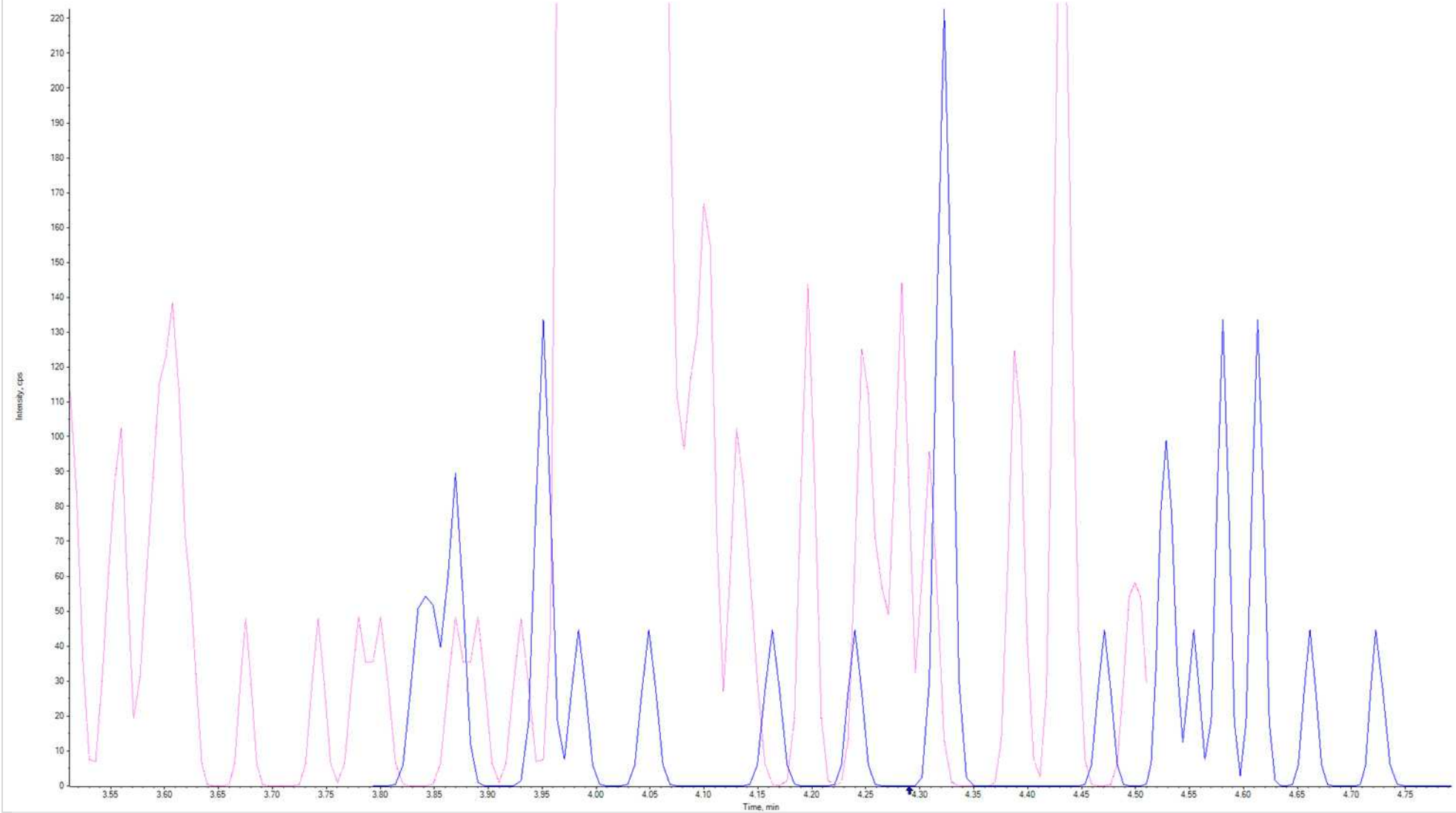


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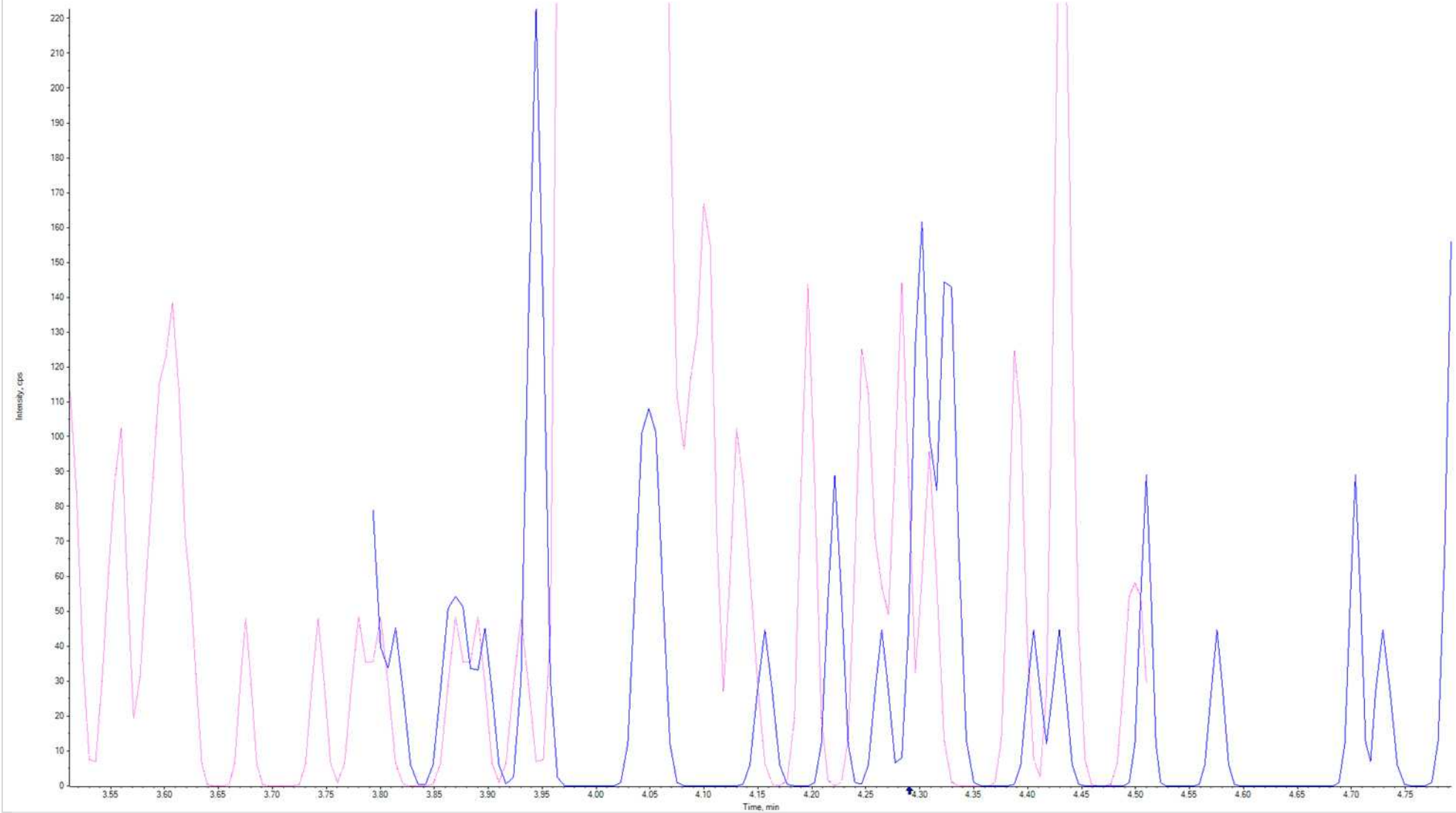
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9Cl-PF3ONS
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

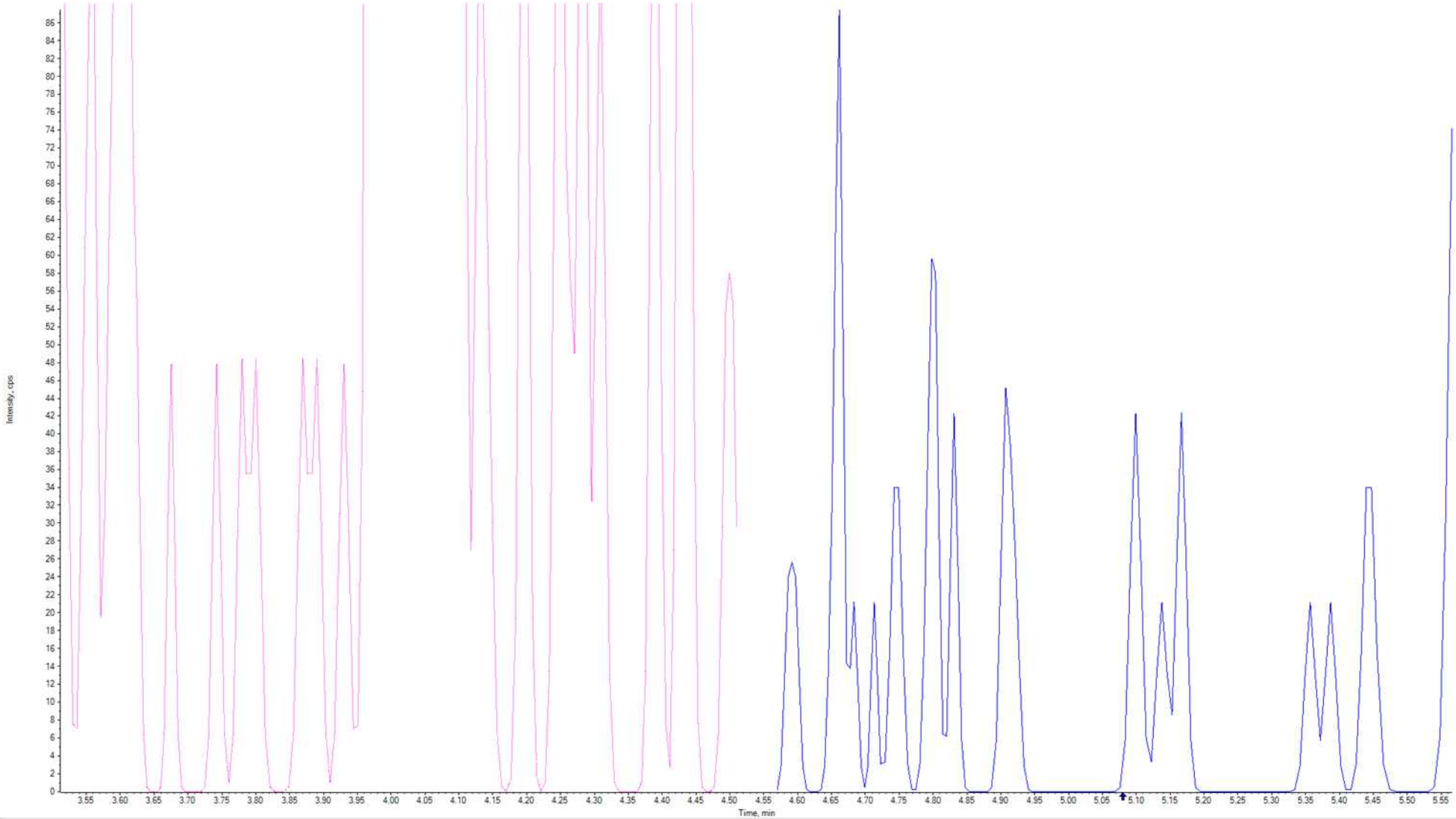


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Alpha Analytical LLC
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9Cl-PF3ONS_2
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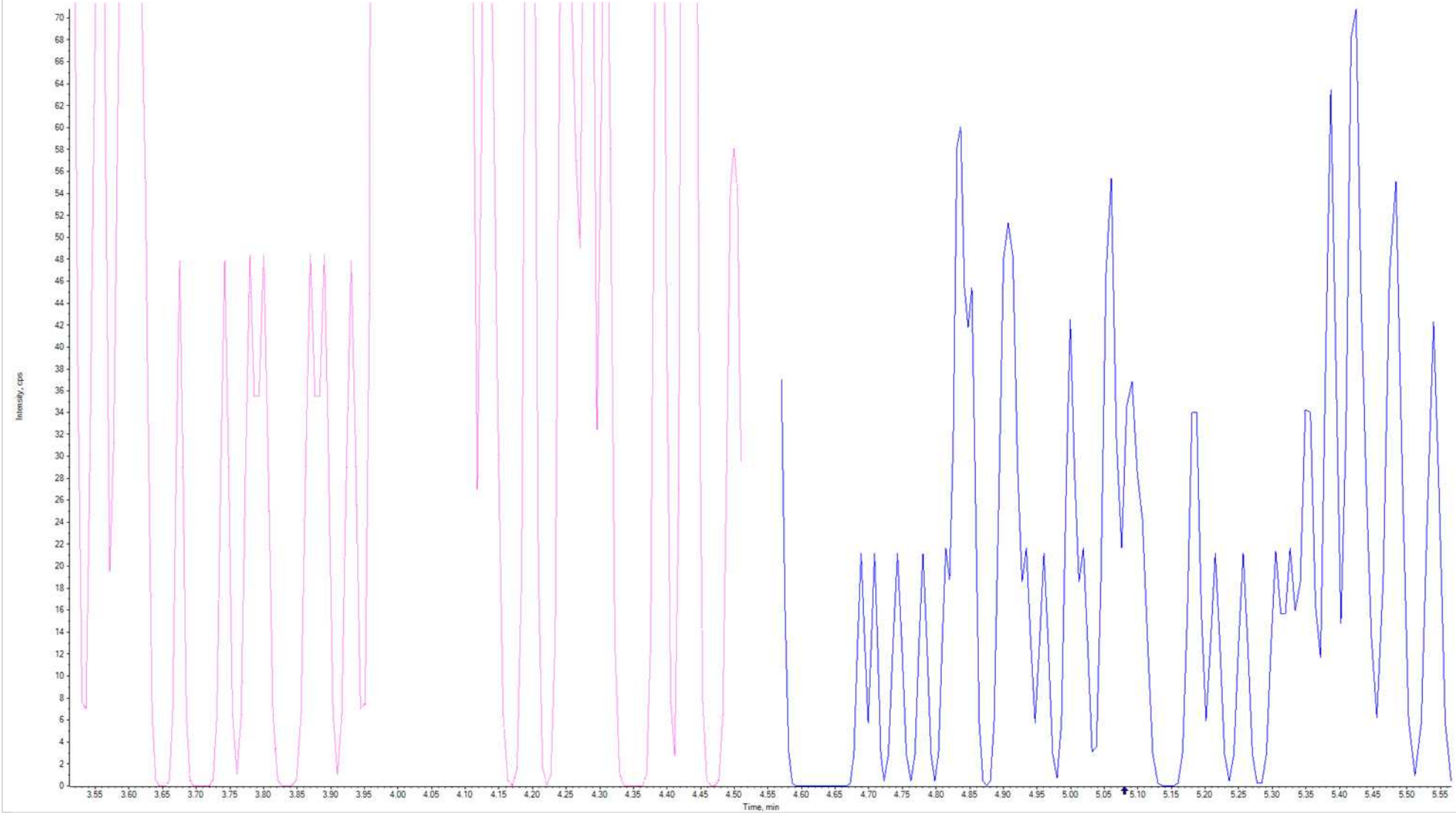


11Cl-PF3OUdS
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

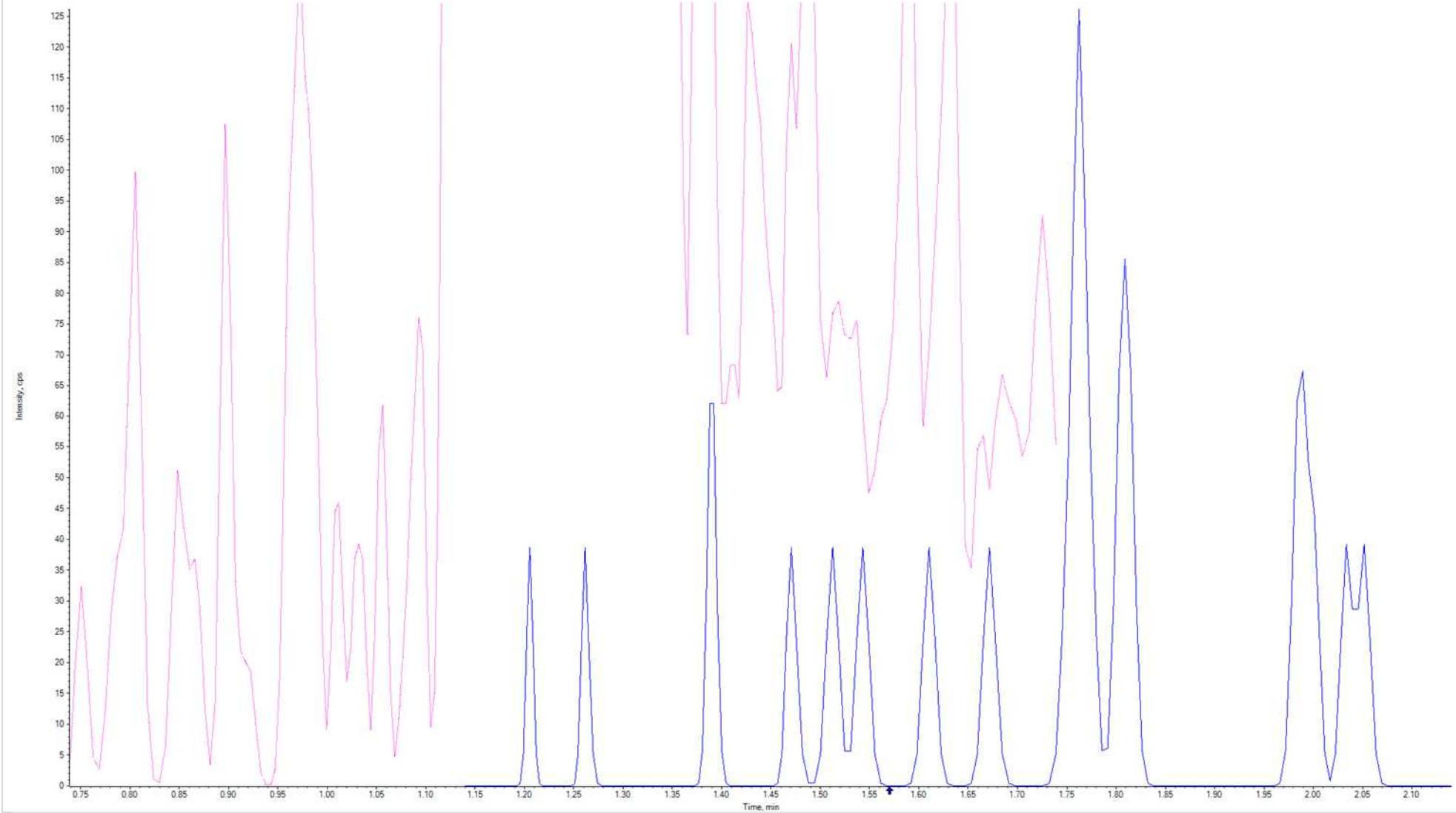


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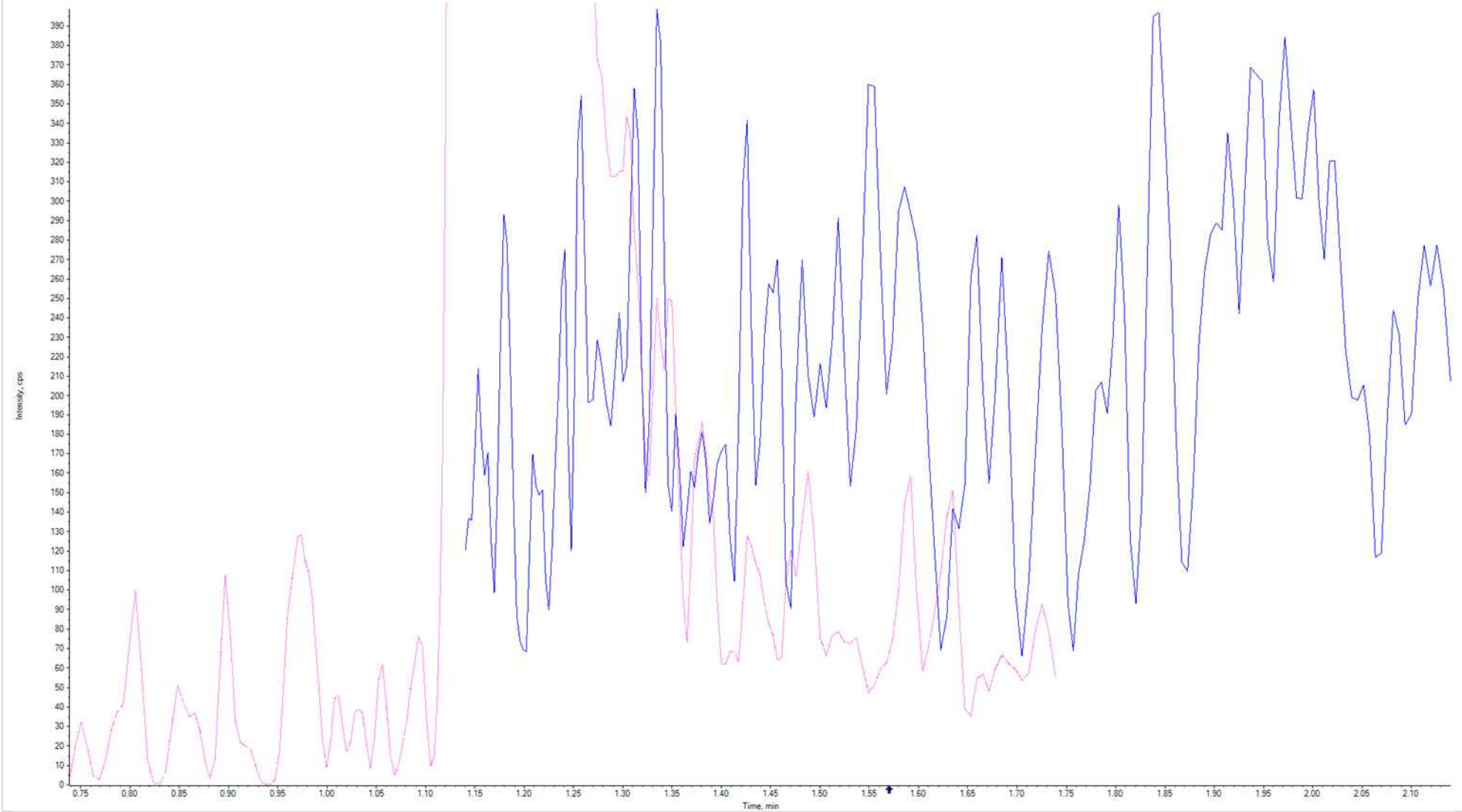
11Cl-PF3OUdS_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



3:3FTCA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

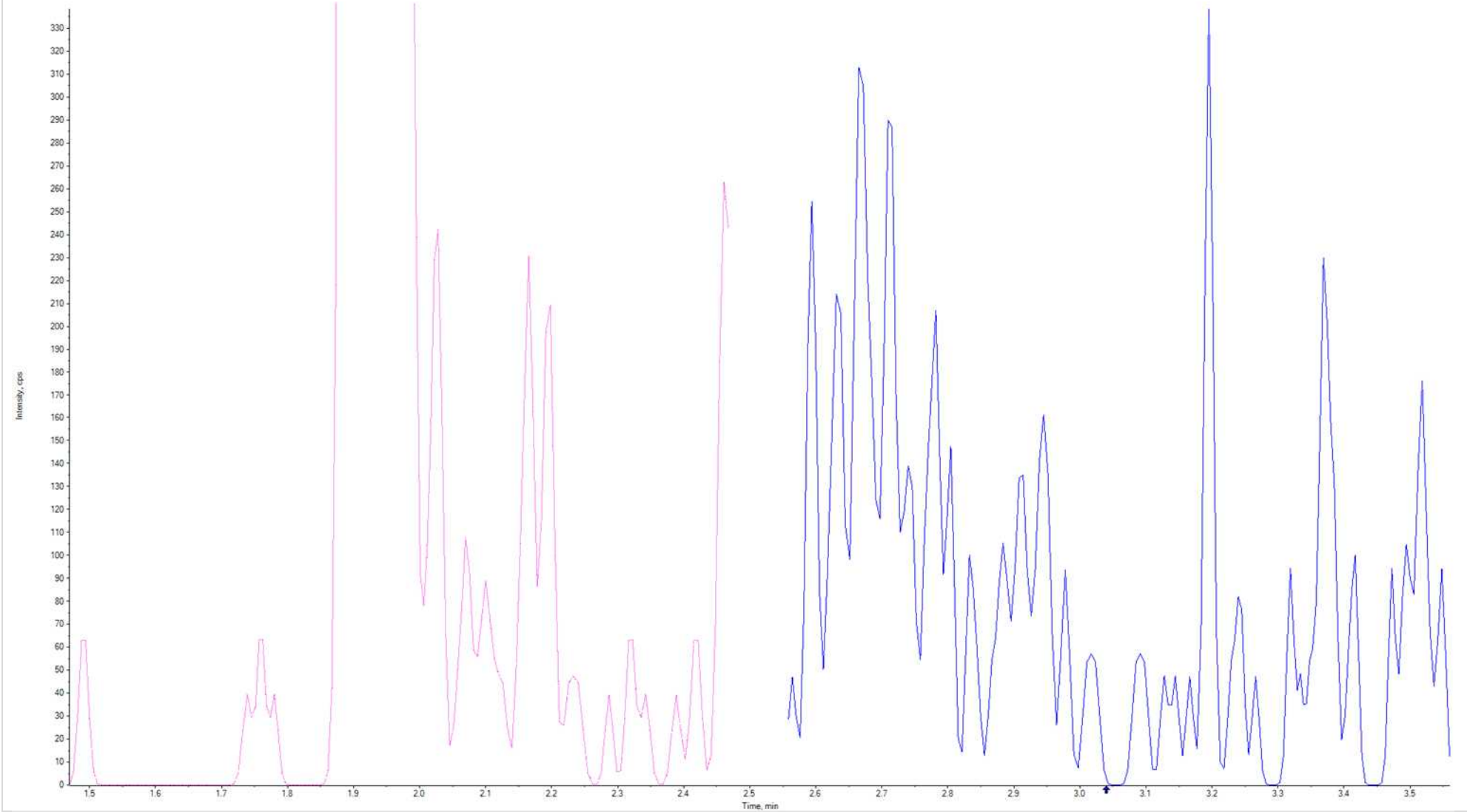


3:3FTCA_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

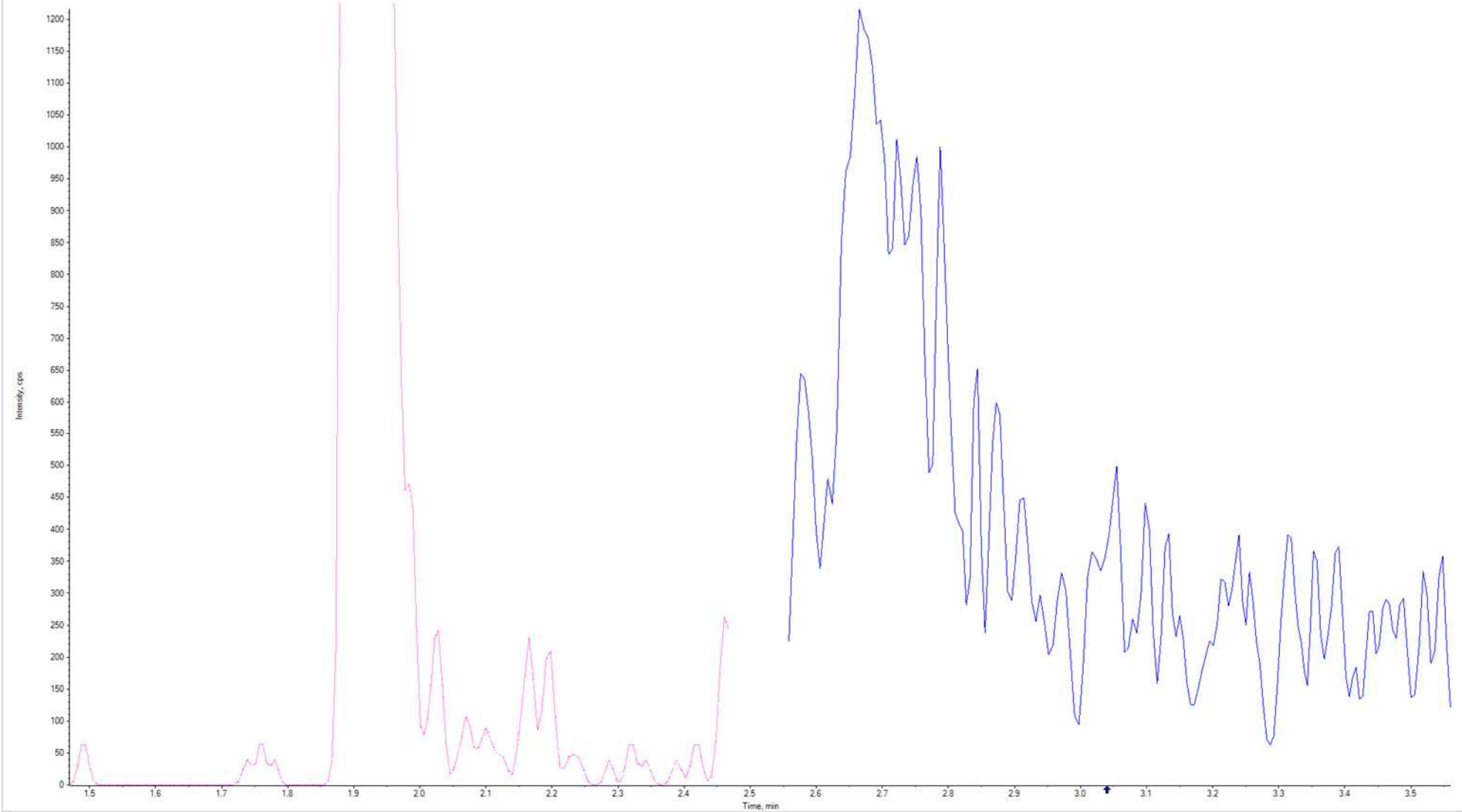


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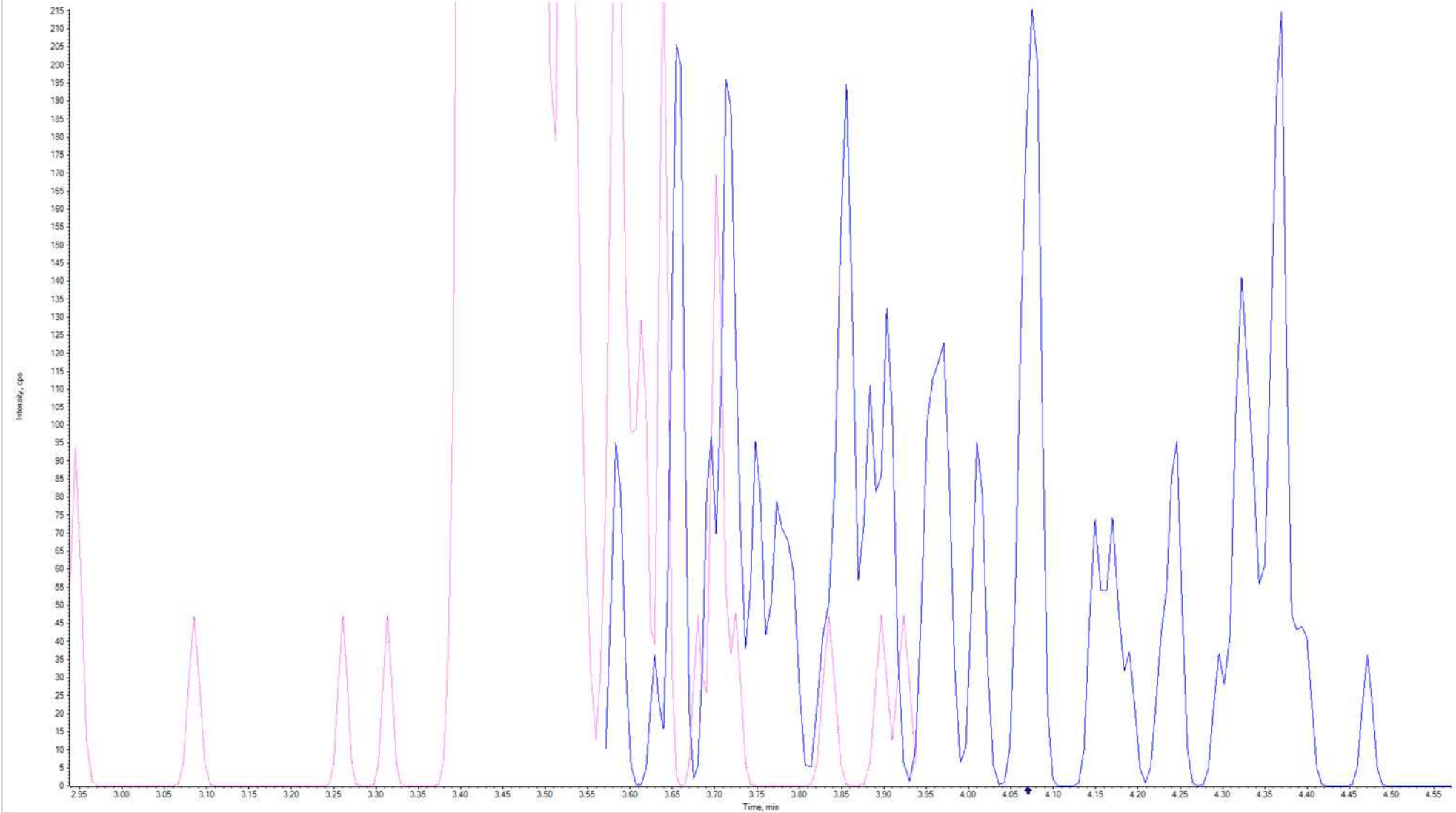
5:3FTCA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



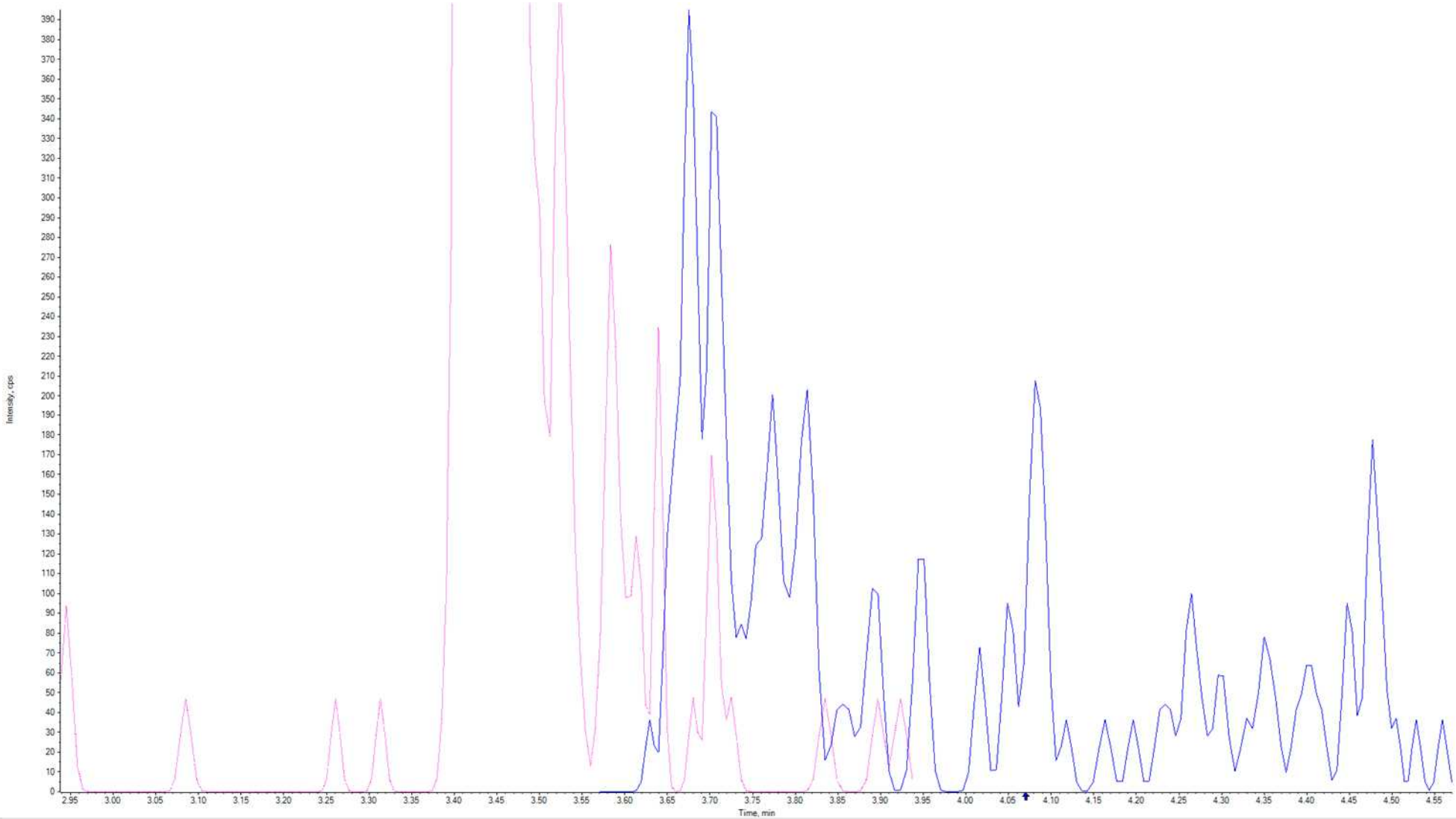
5:3FTCA_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



7:3FTCA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

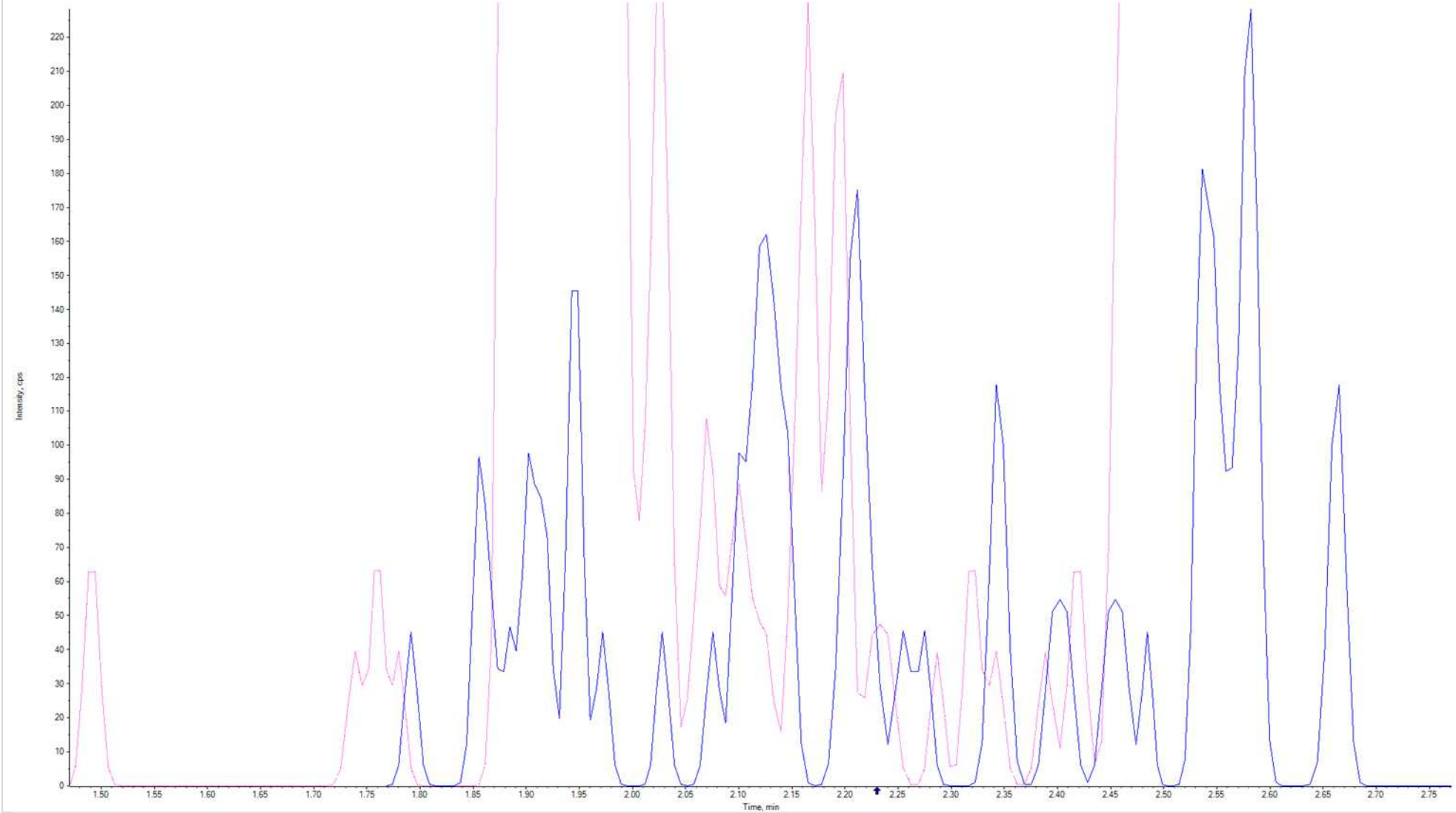


7:3FTCA_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



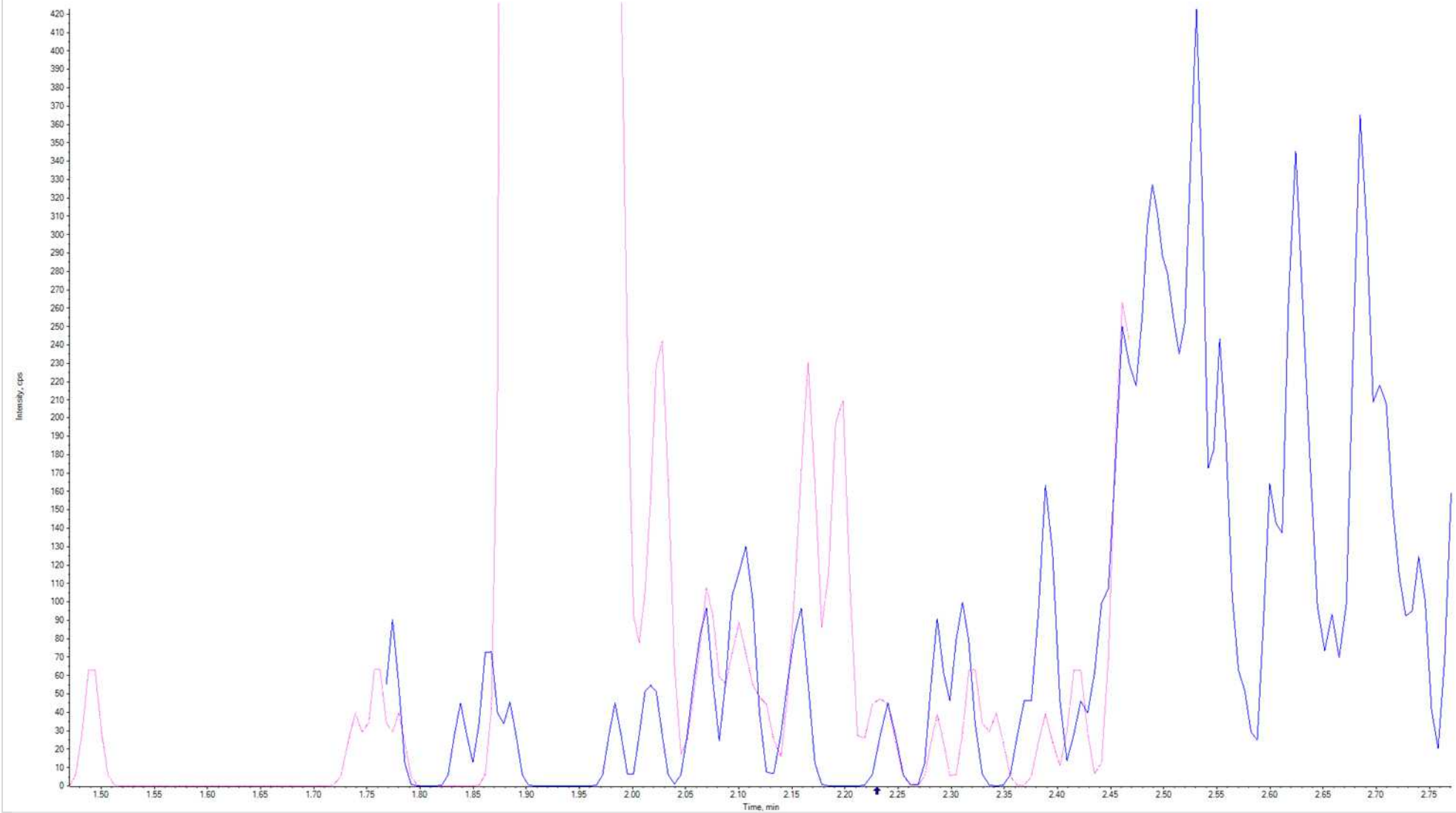
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PFEESA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

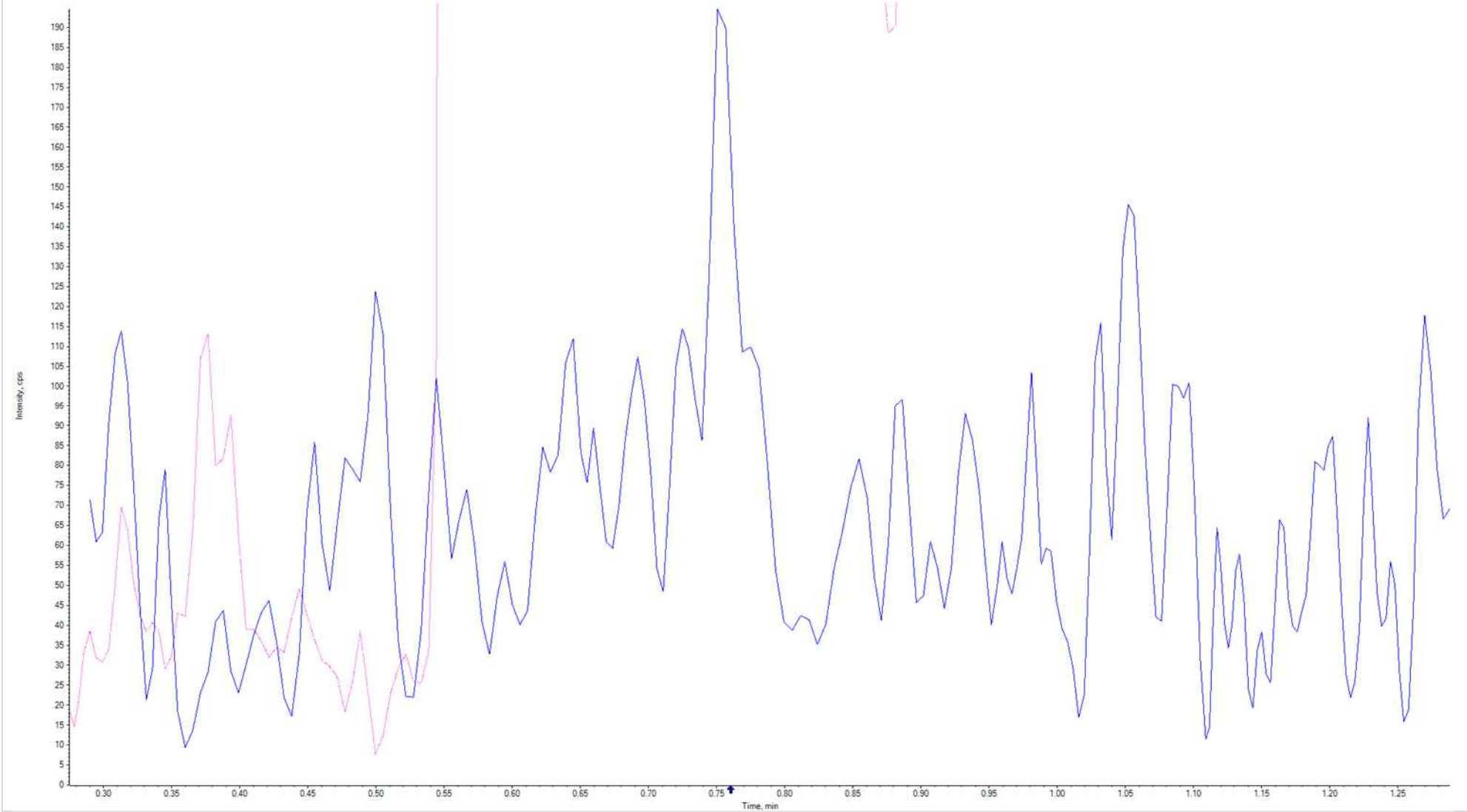


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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PFEESA_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

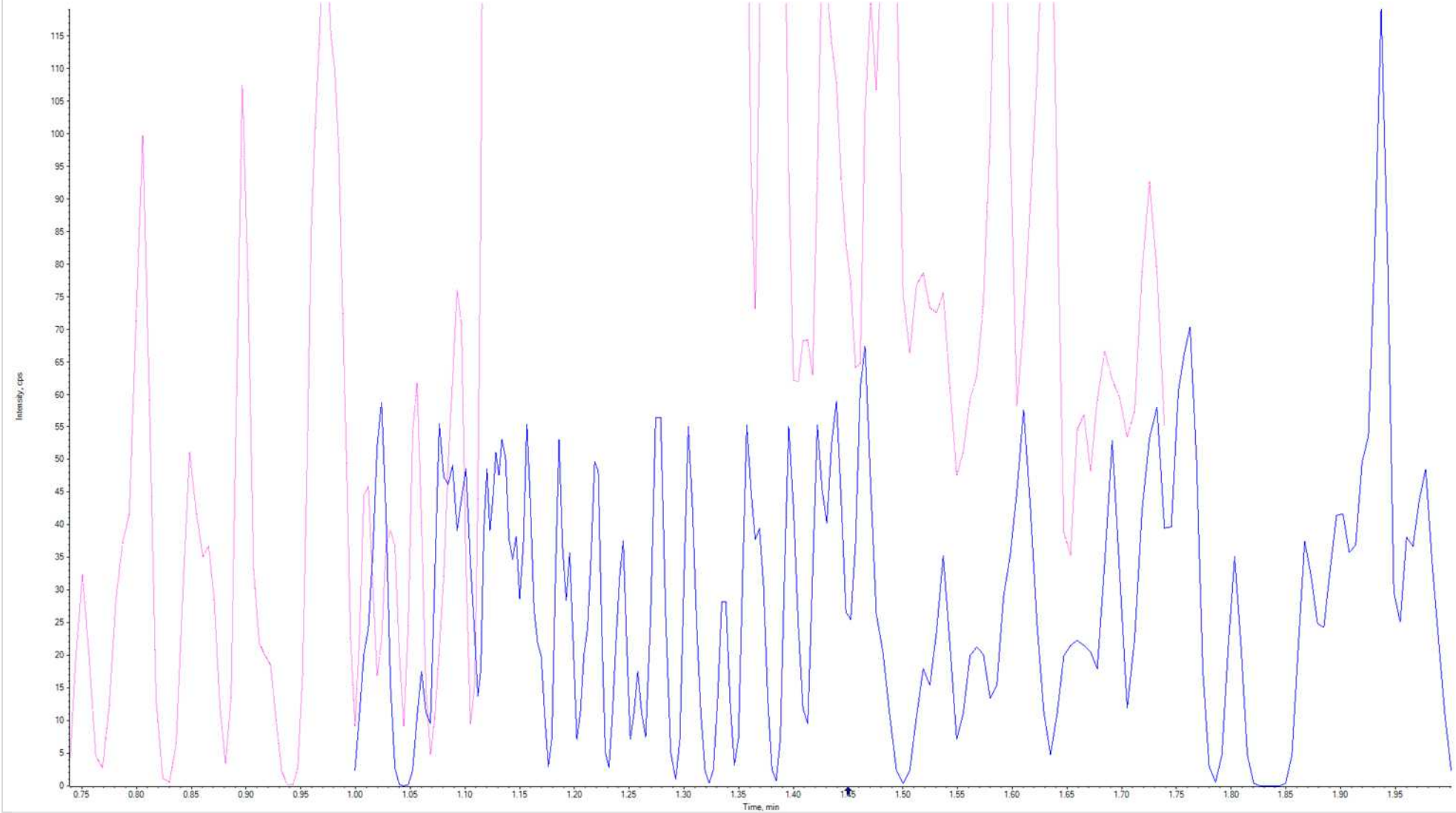


PFMPA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



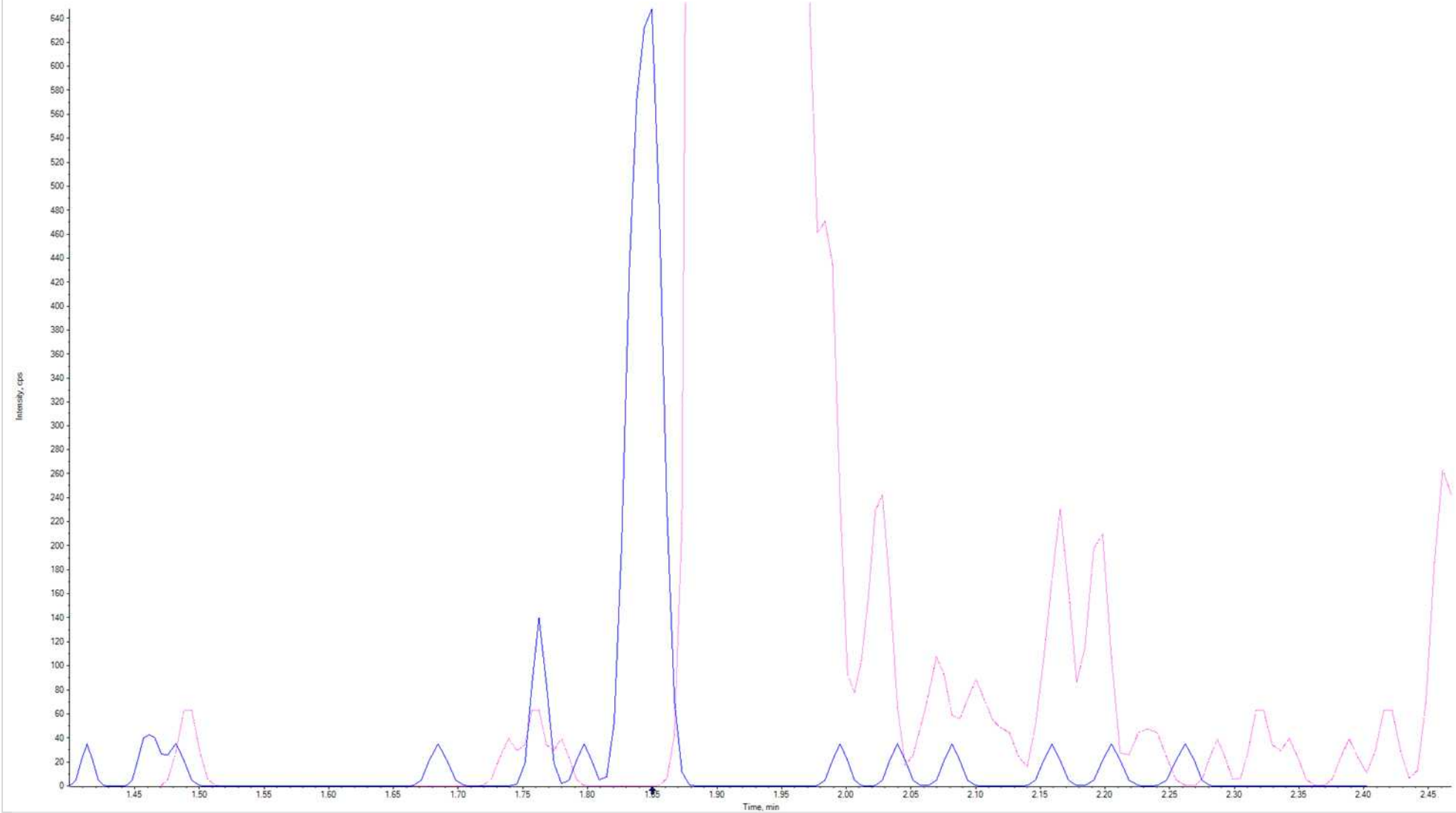
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PFMBA
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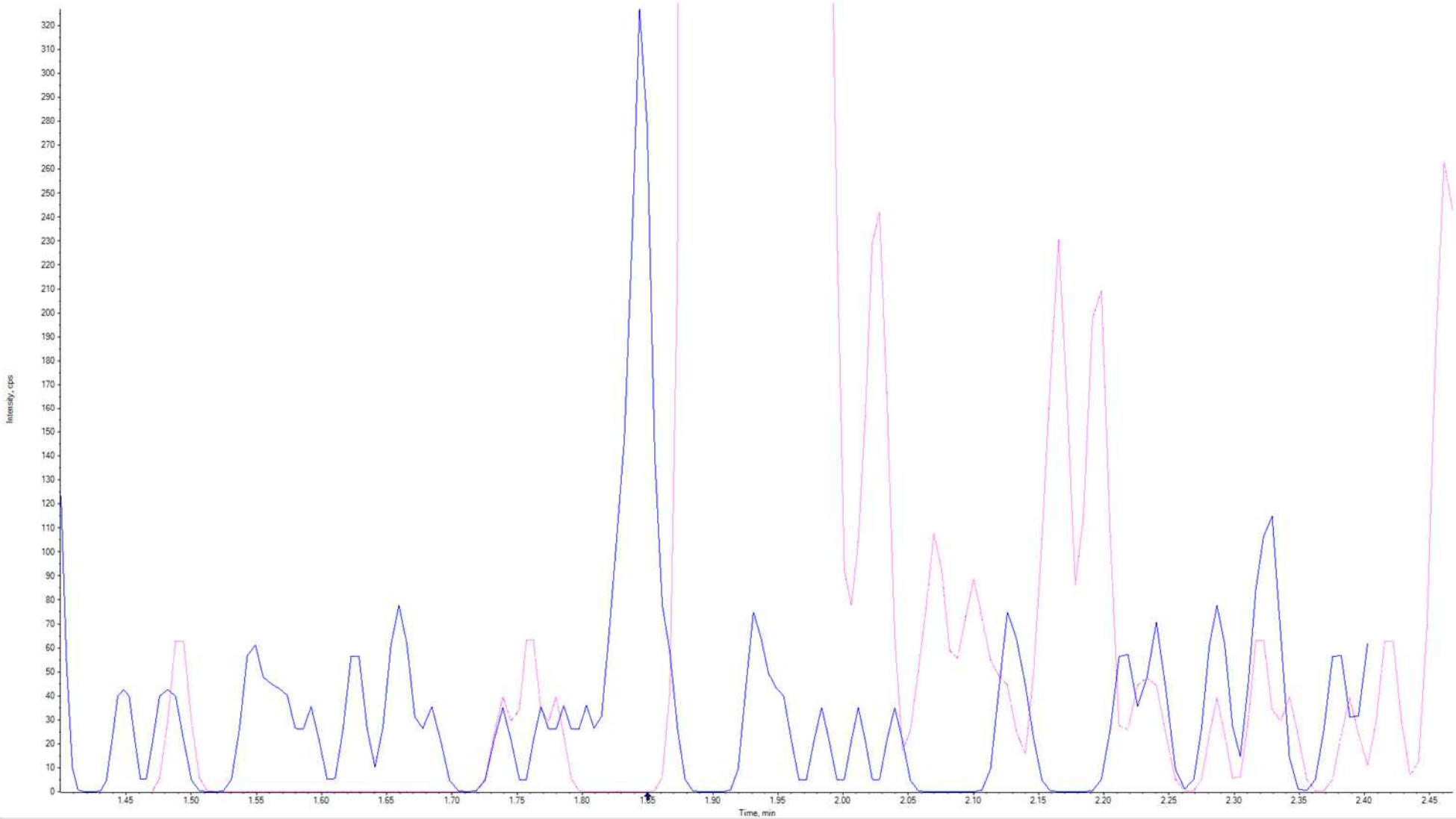


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NFDHA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

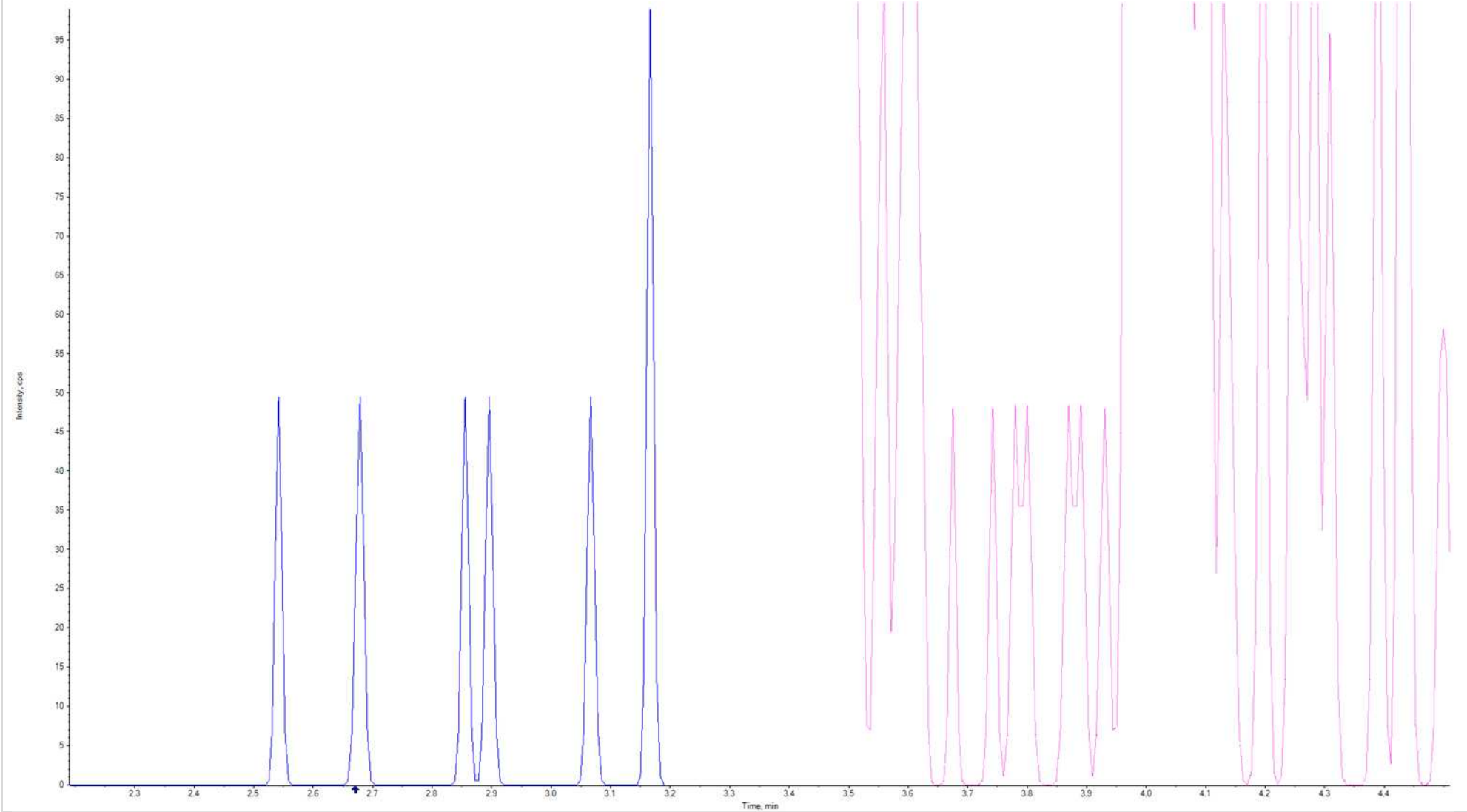


NFDHA_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

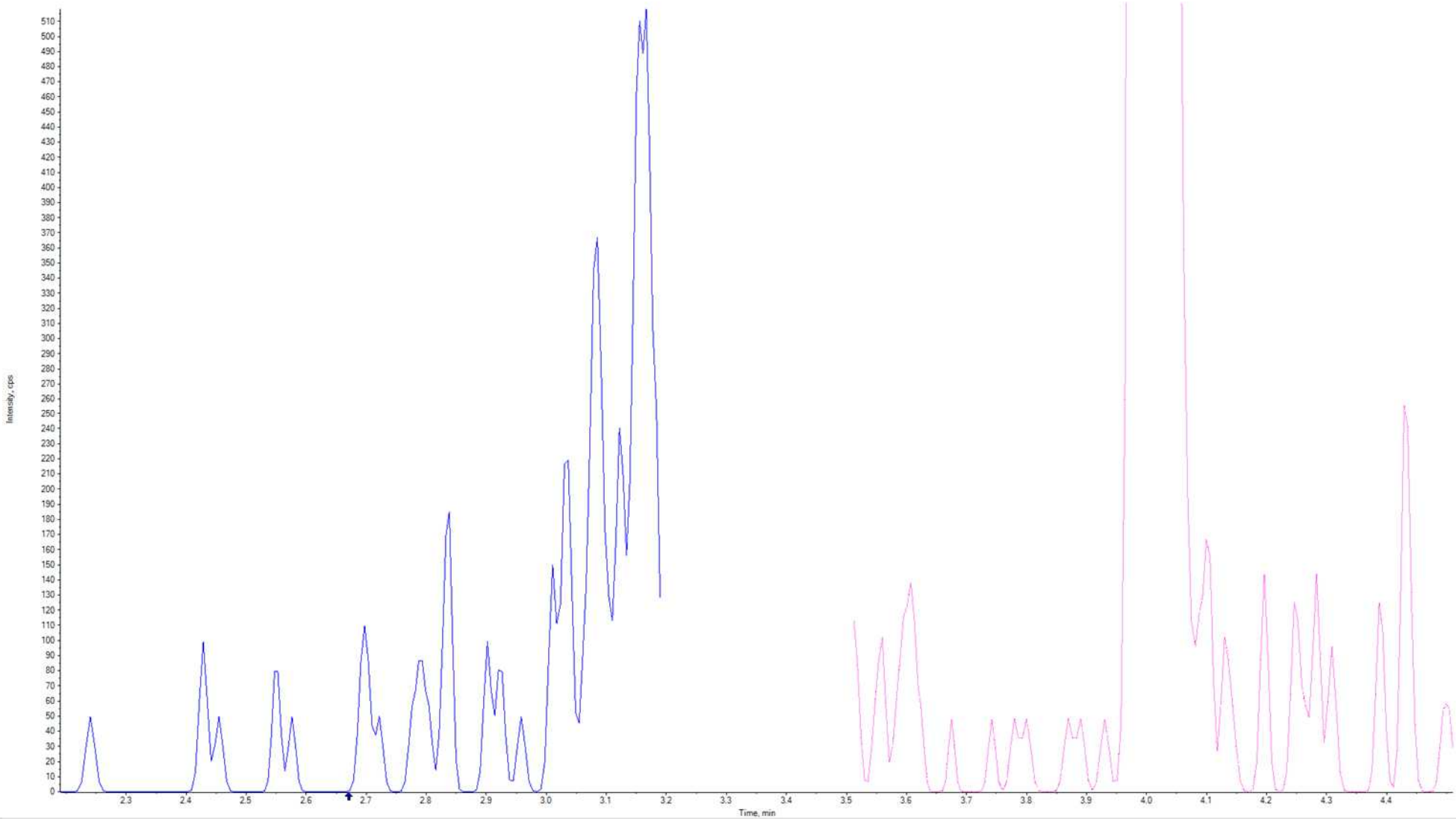


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TDCA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

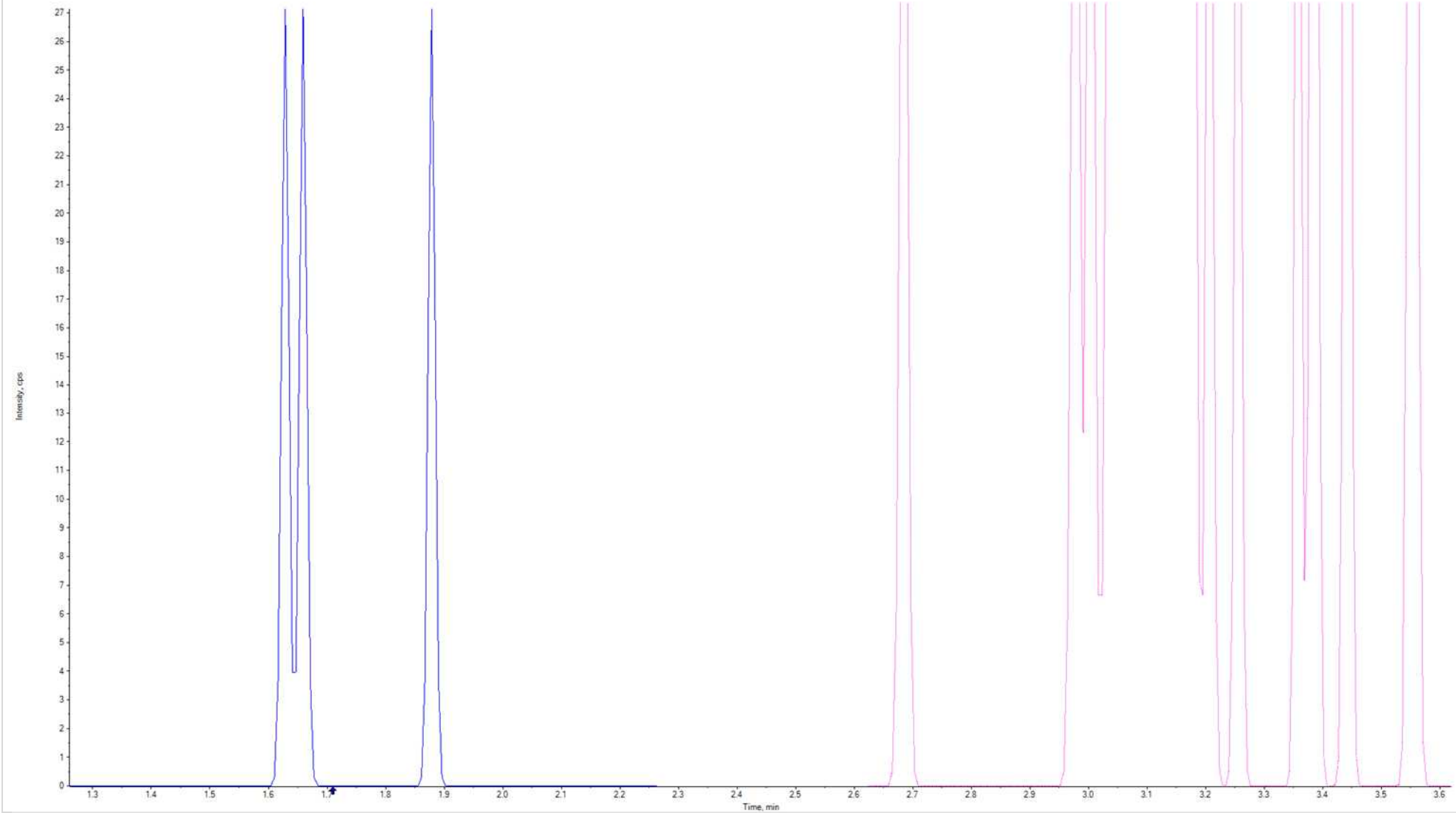


TDCA_2
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



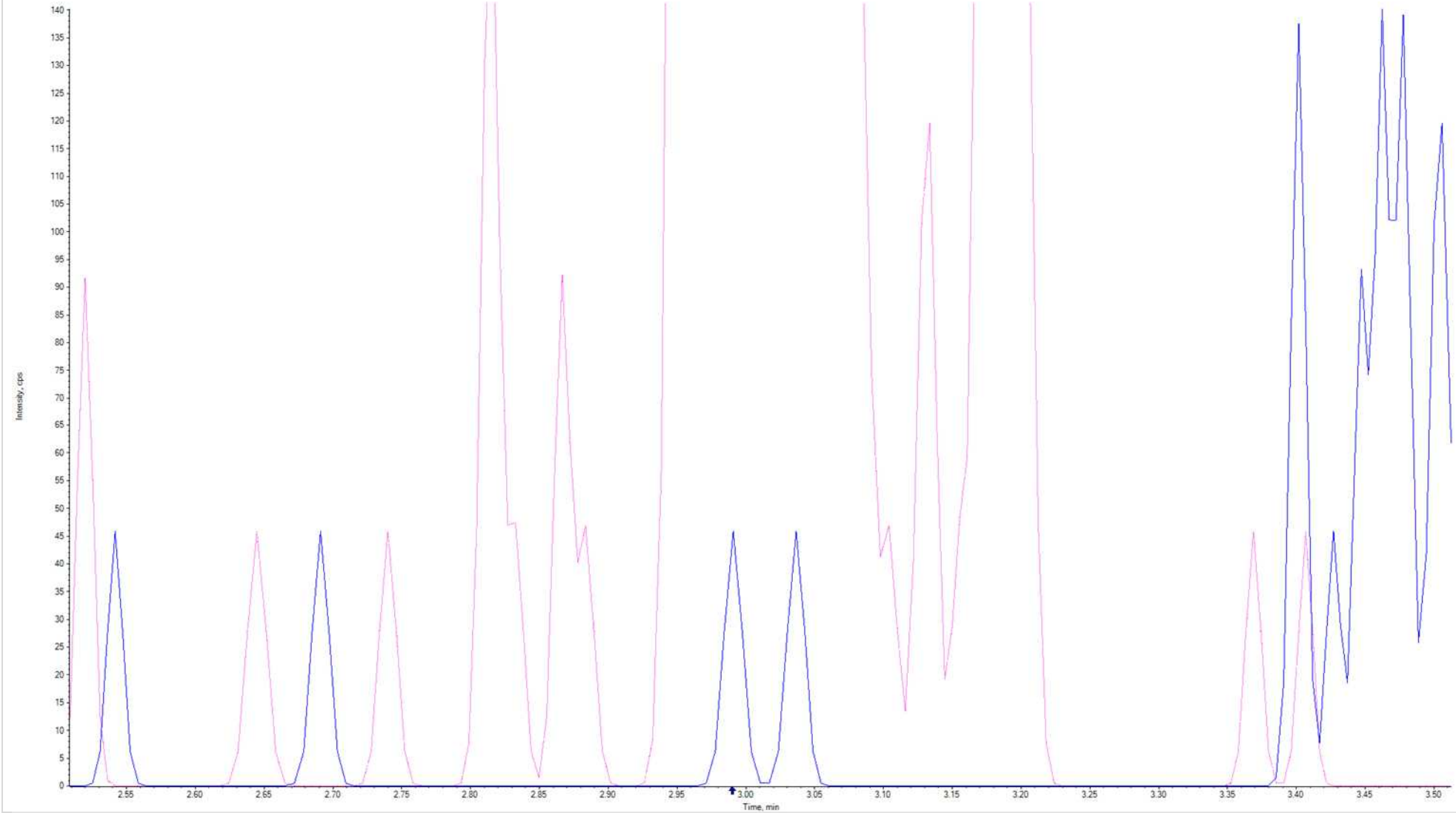
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13C2D4-4:2FTS
Sample: L2512271-02R S/N:N/A Points Across peak:N/A

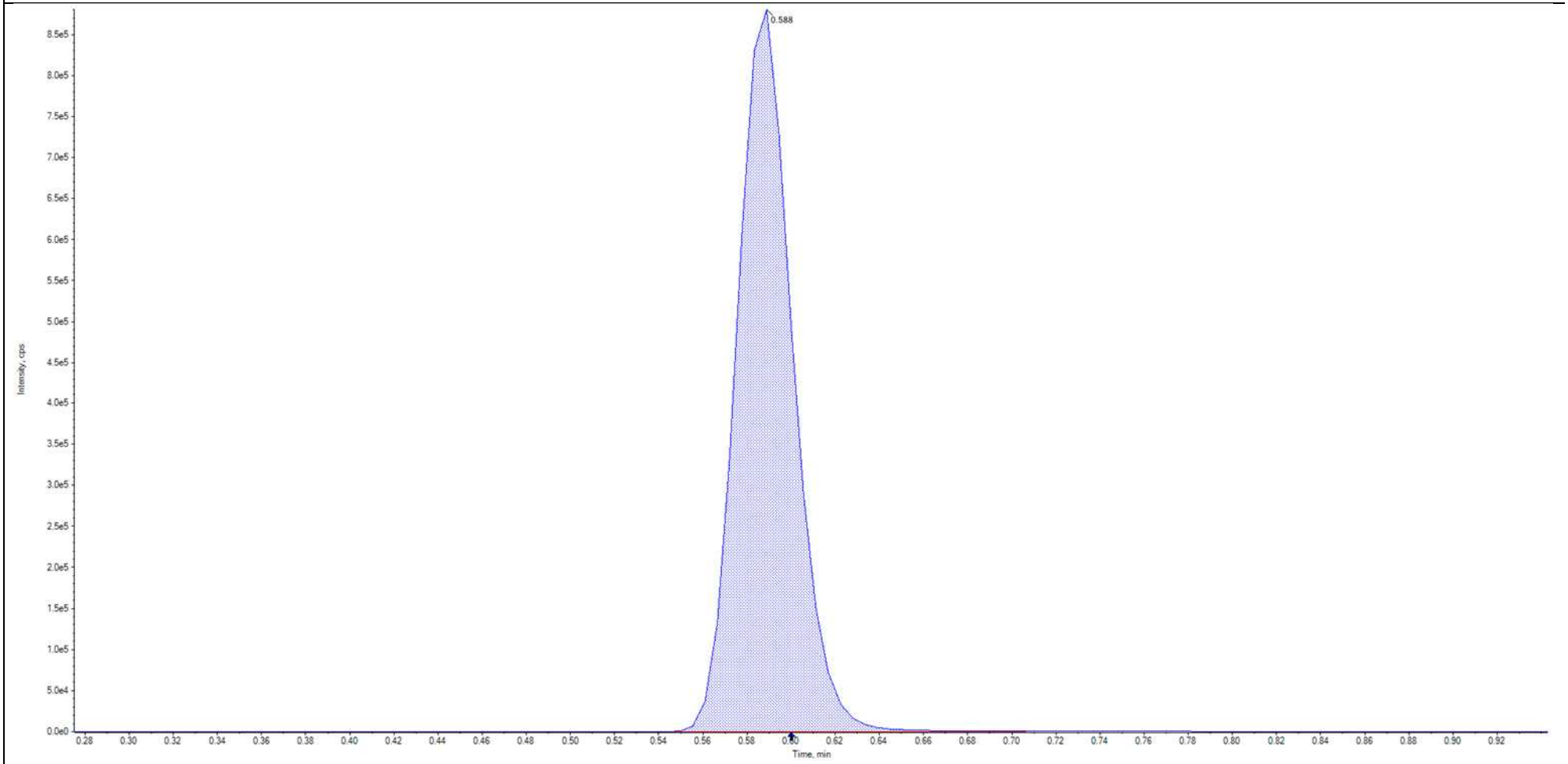


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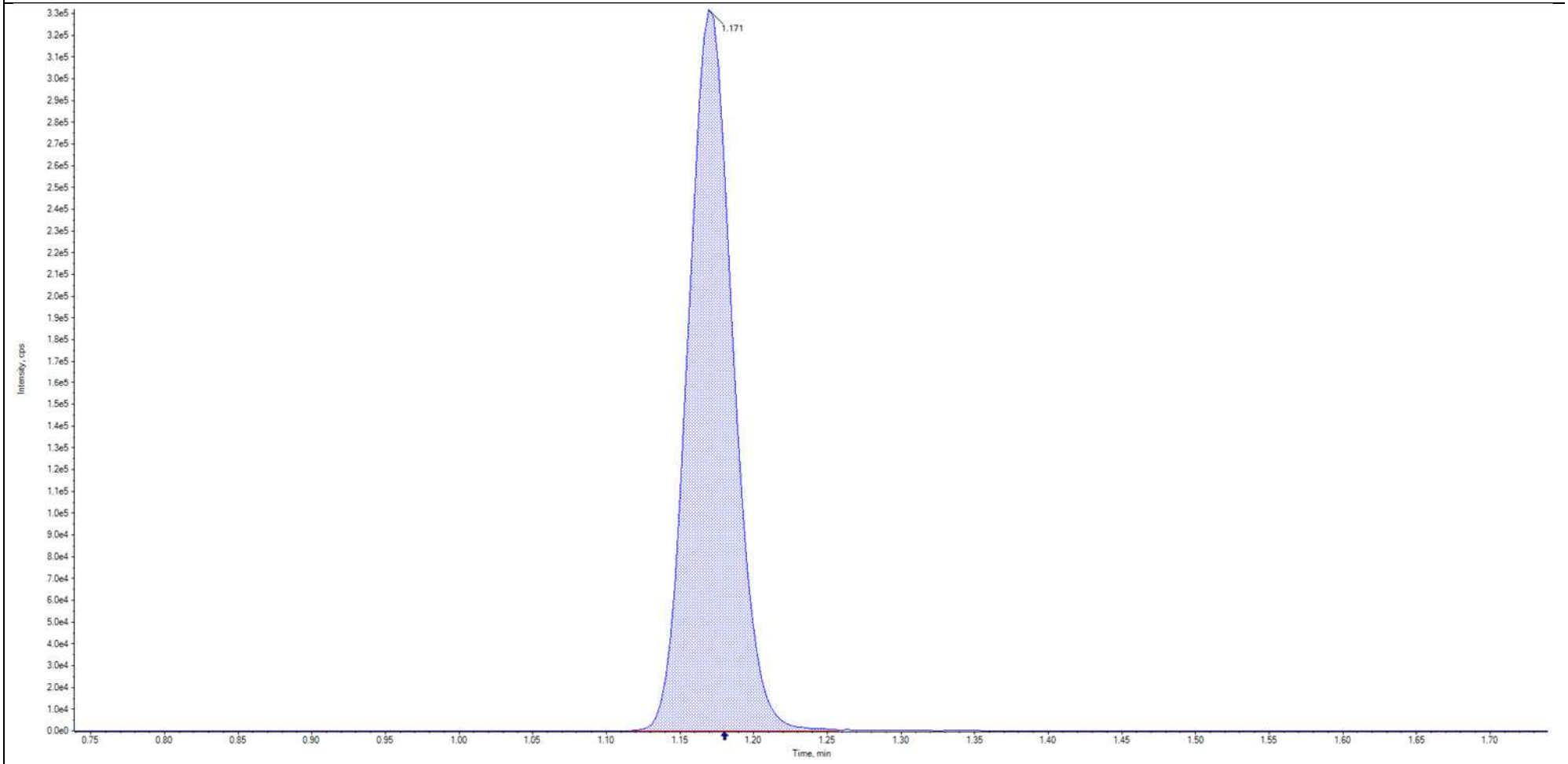
13C2-PFOA
Sample: L2512271-02R S/N:N/A Points Across peak:N/A



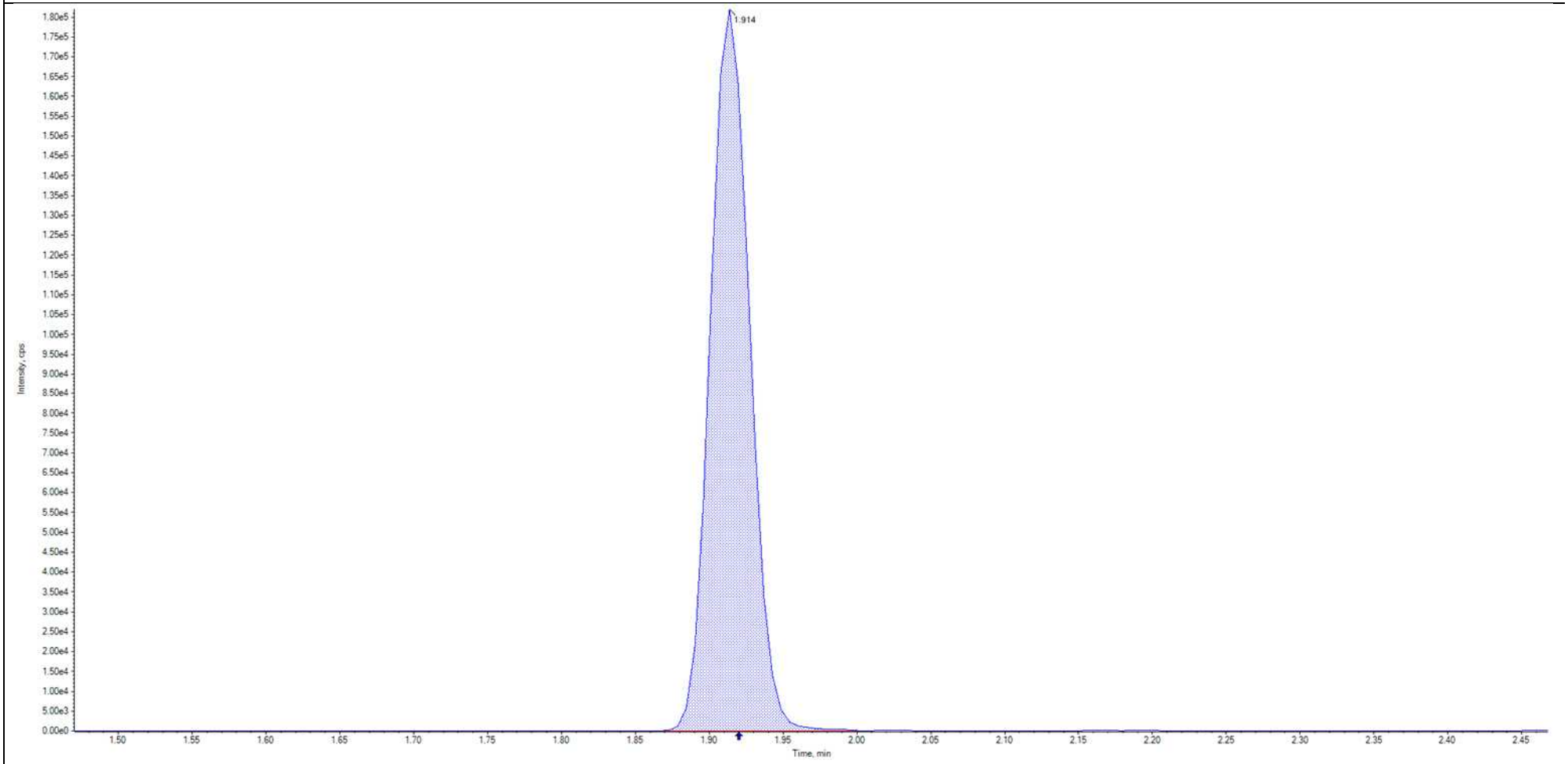
13C4-PFBA
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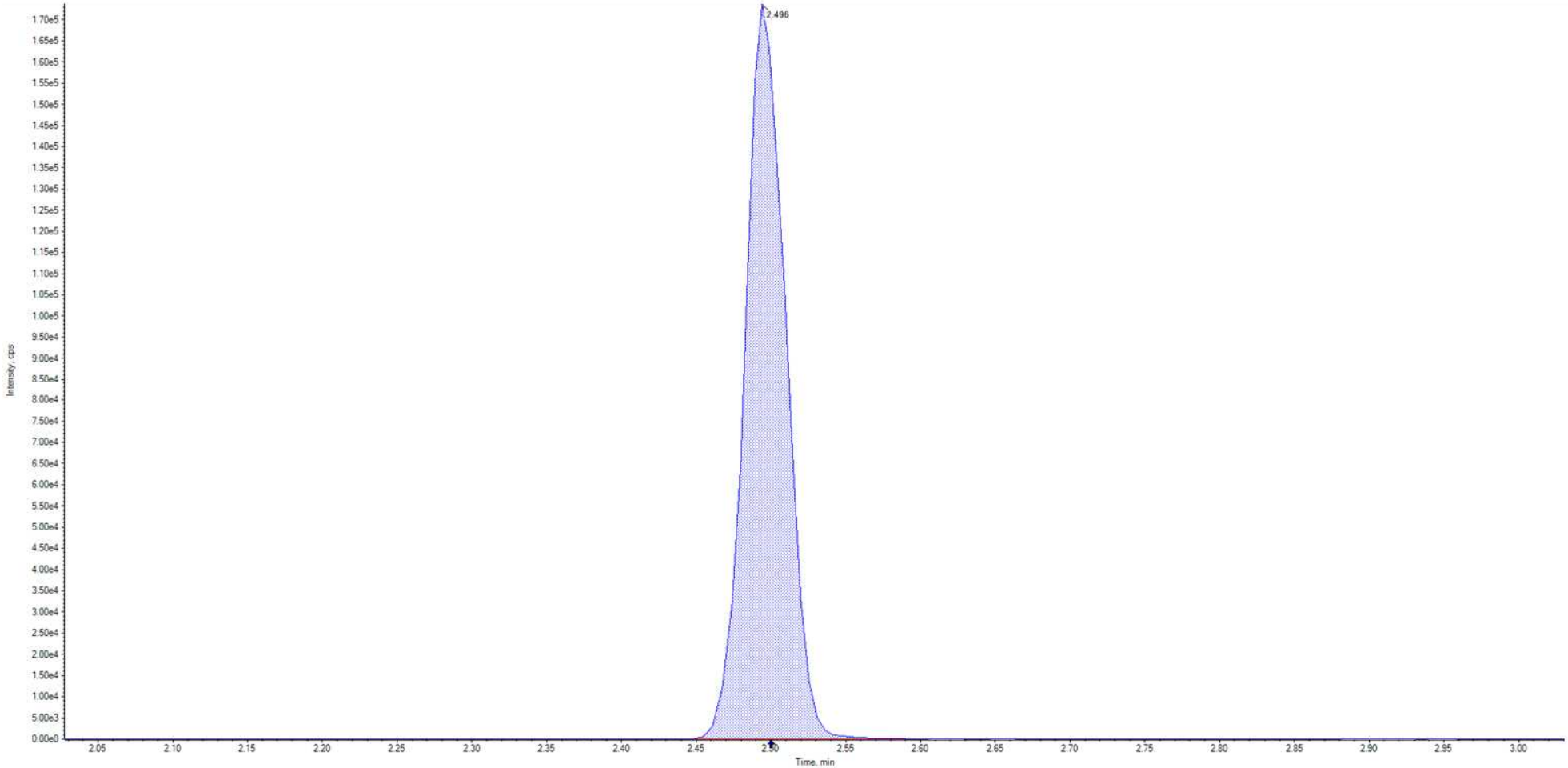
13C5-PFPeA
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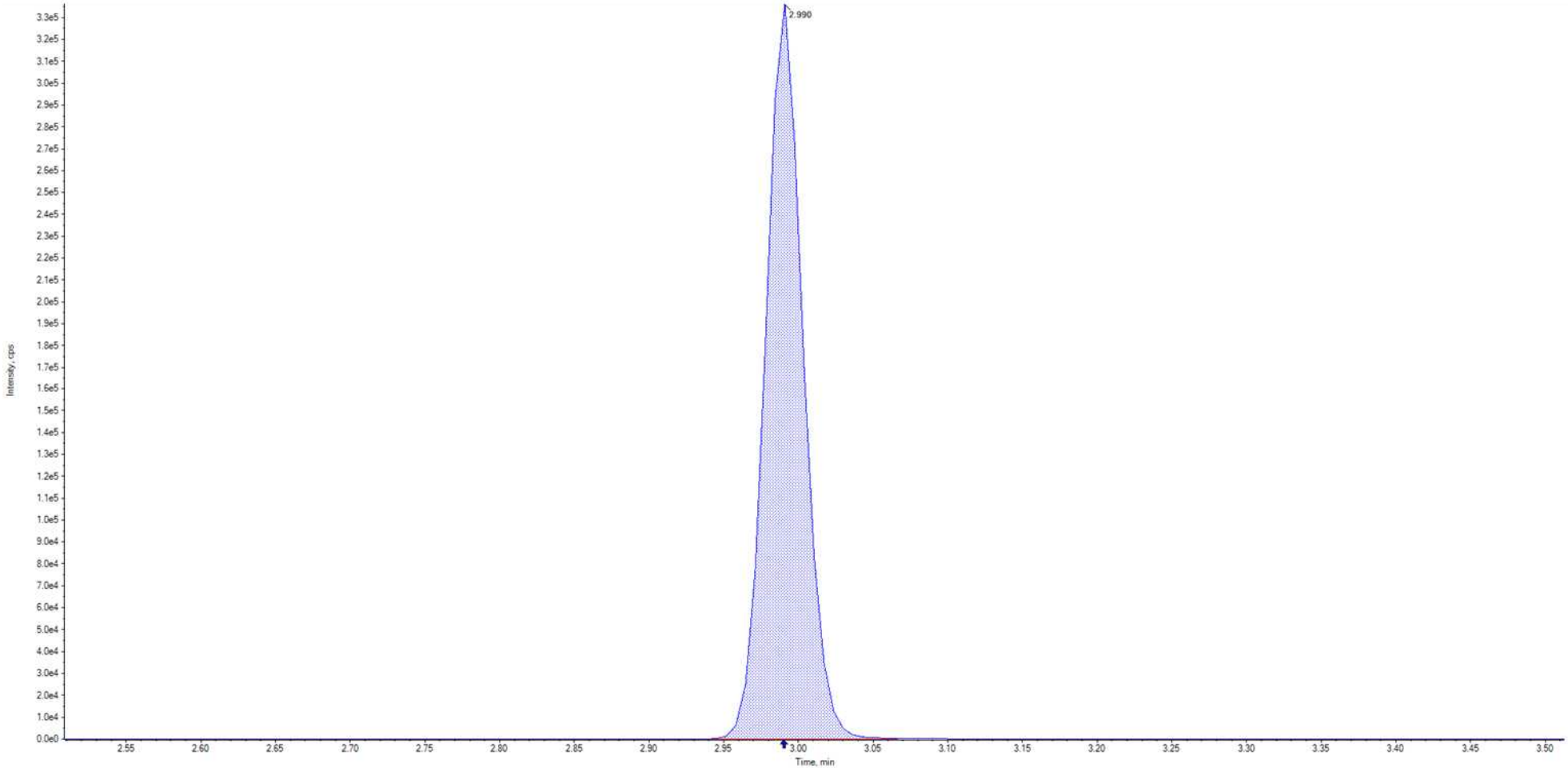
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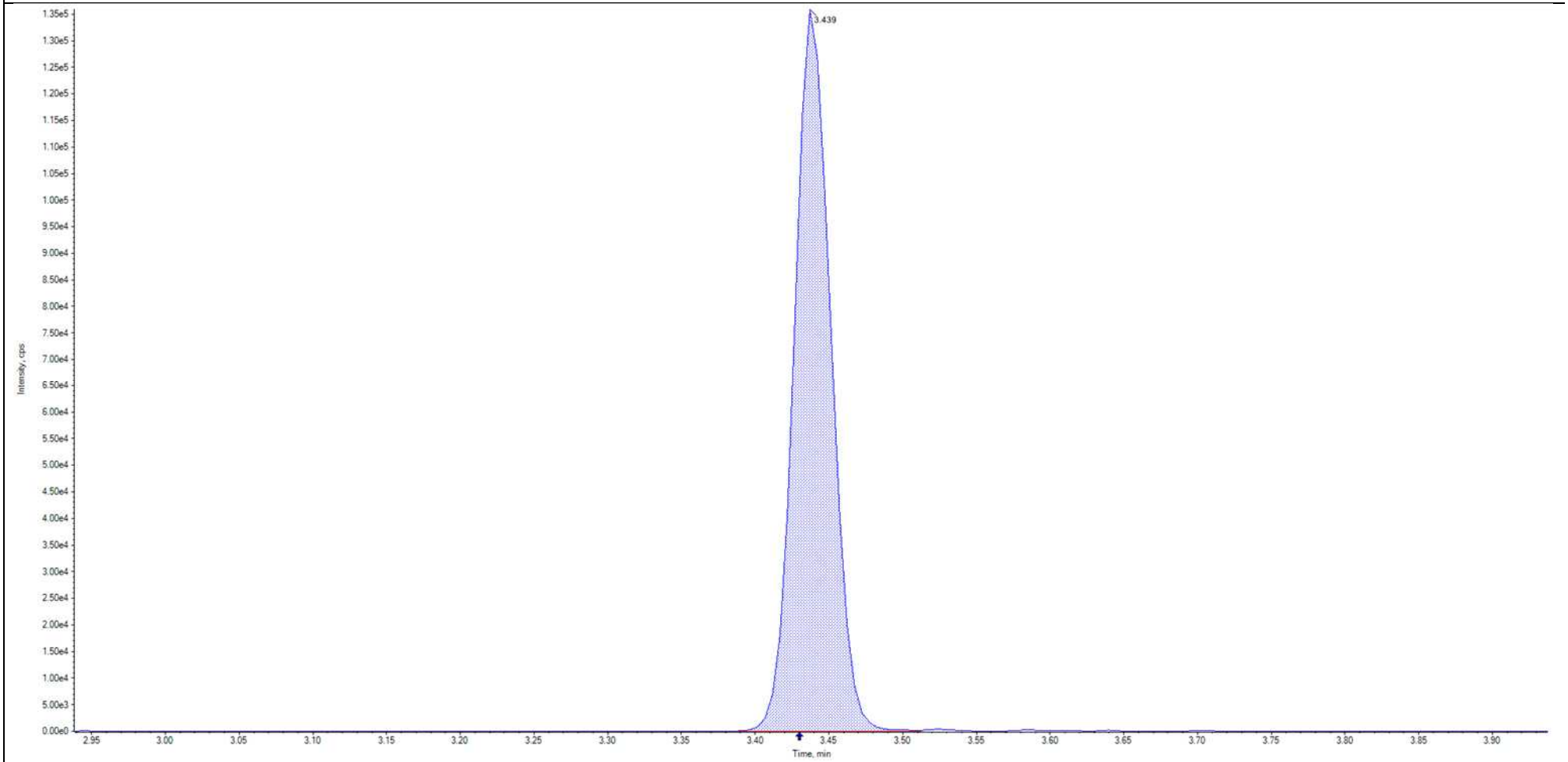
13C4-PFHpA
Sample: L2512271-02R



13C8-PFOA
Sample: L2512271-02R

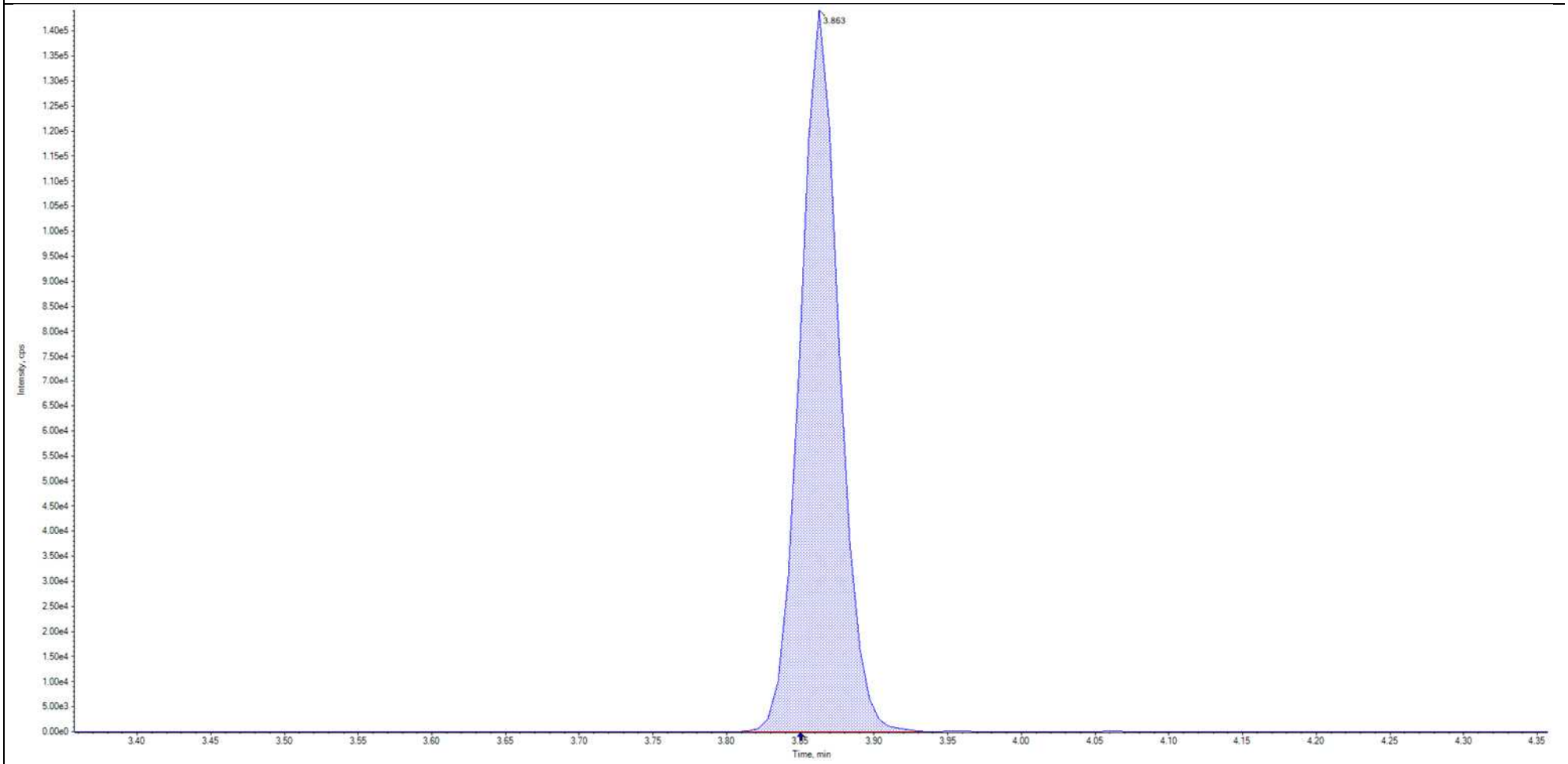


13C9-PFNA
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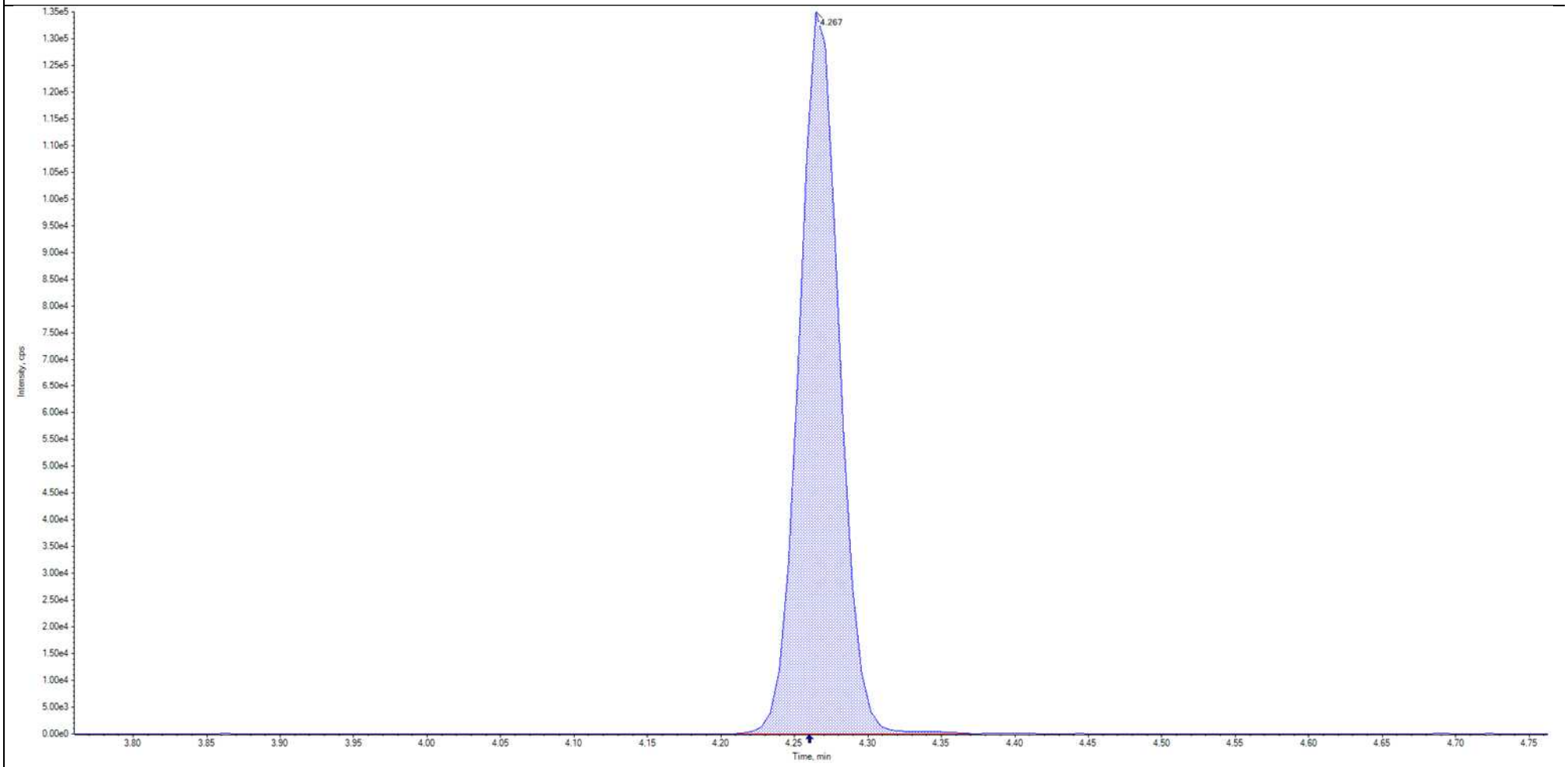


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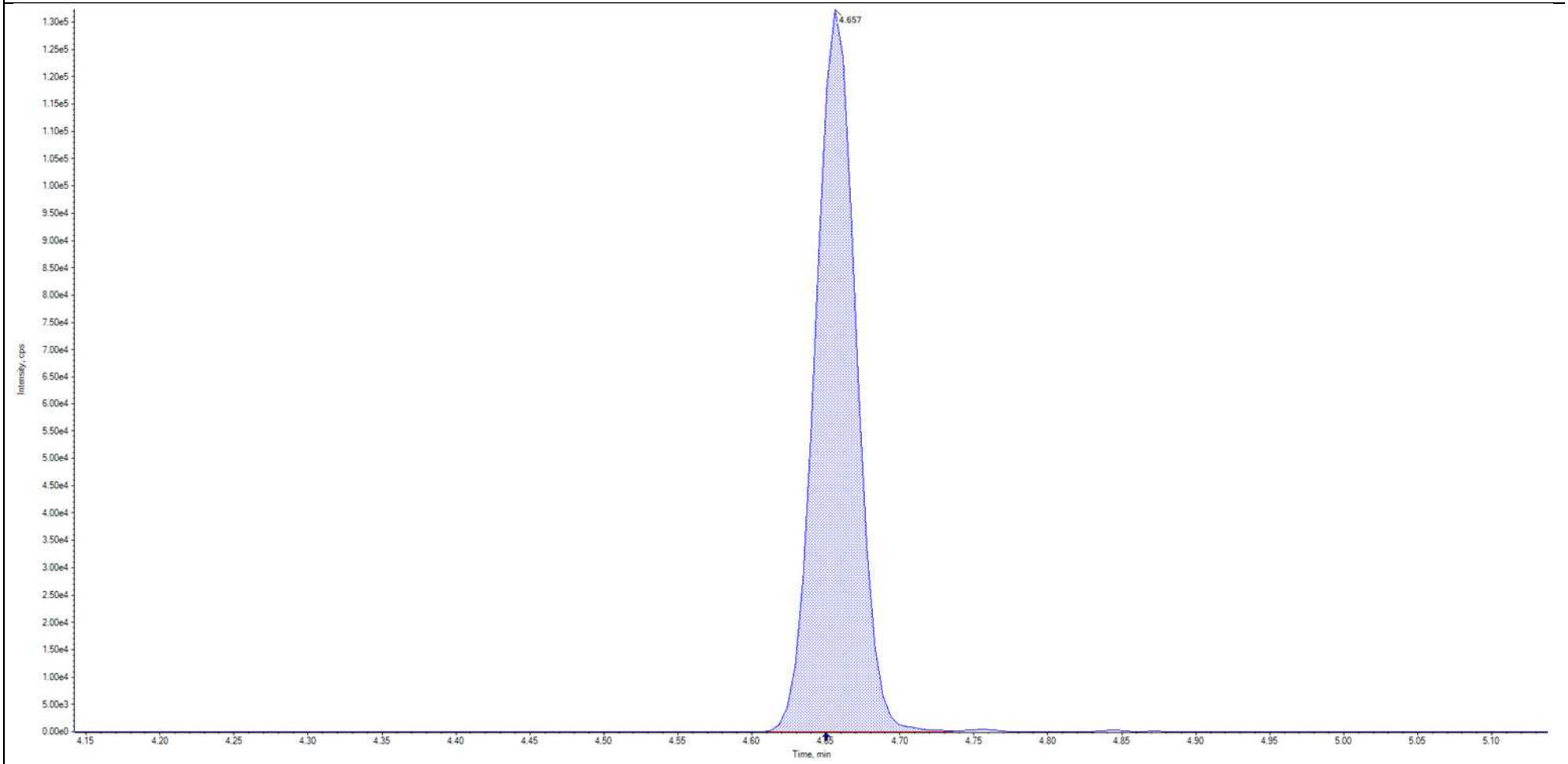
13C6-PFDA
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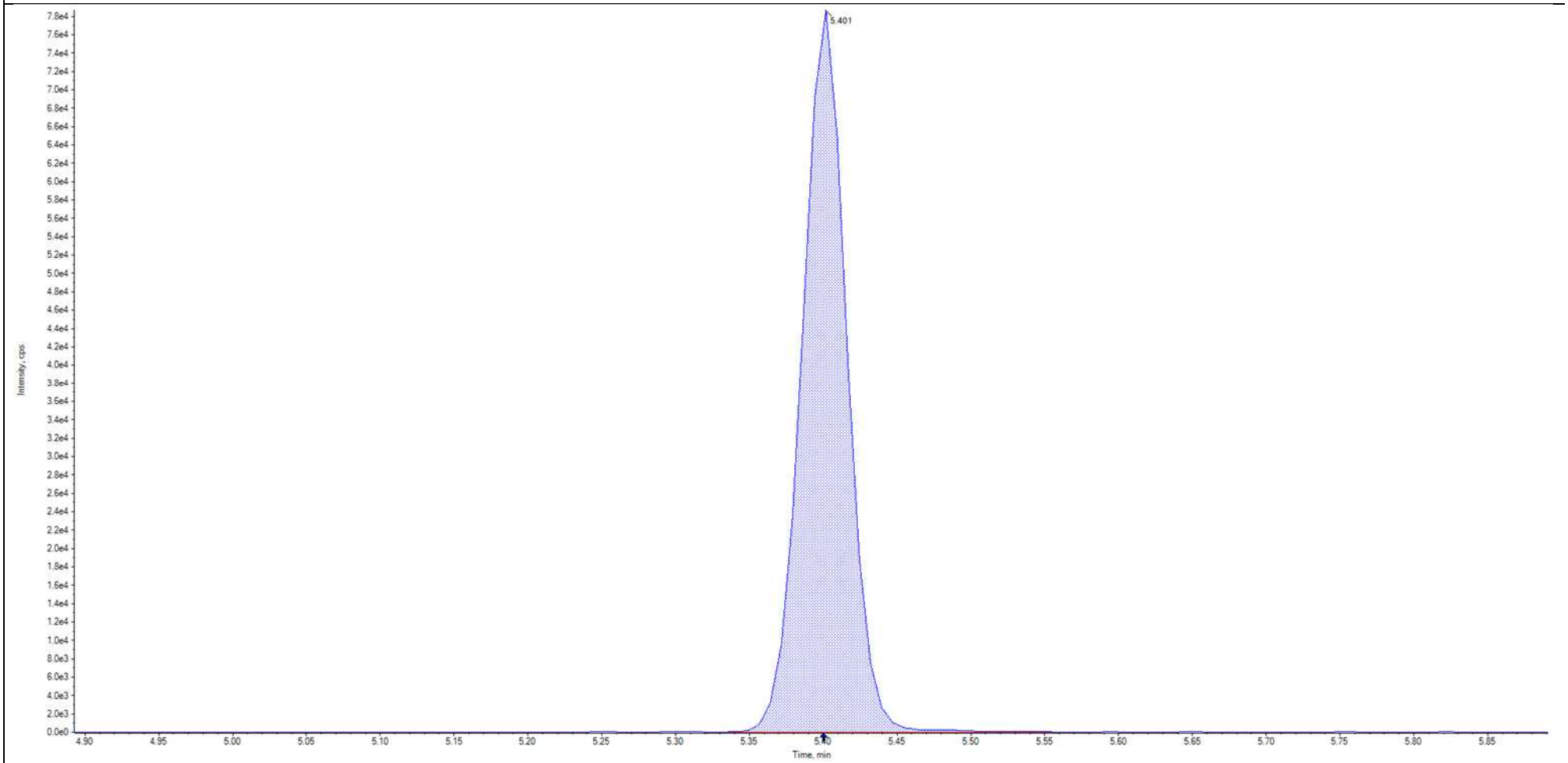
13C7-PFUnA
Sample: L2512271-02R



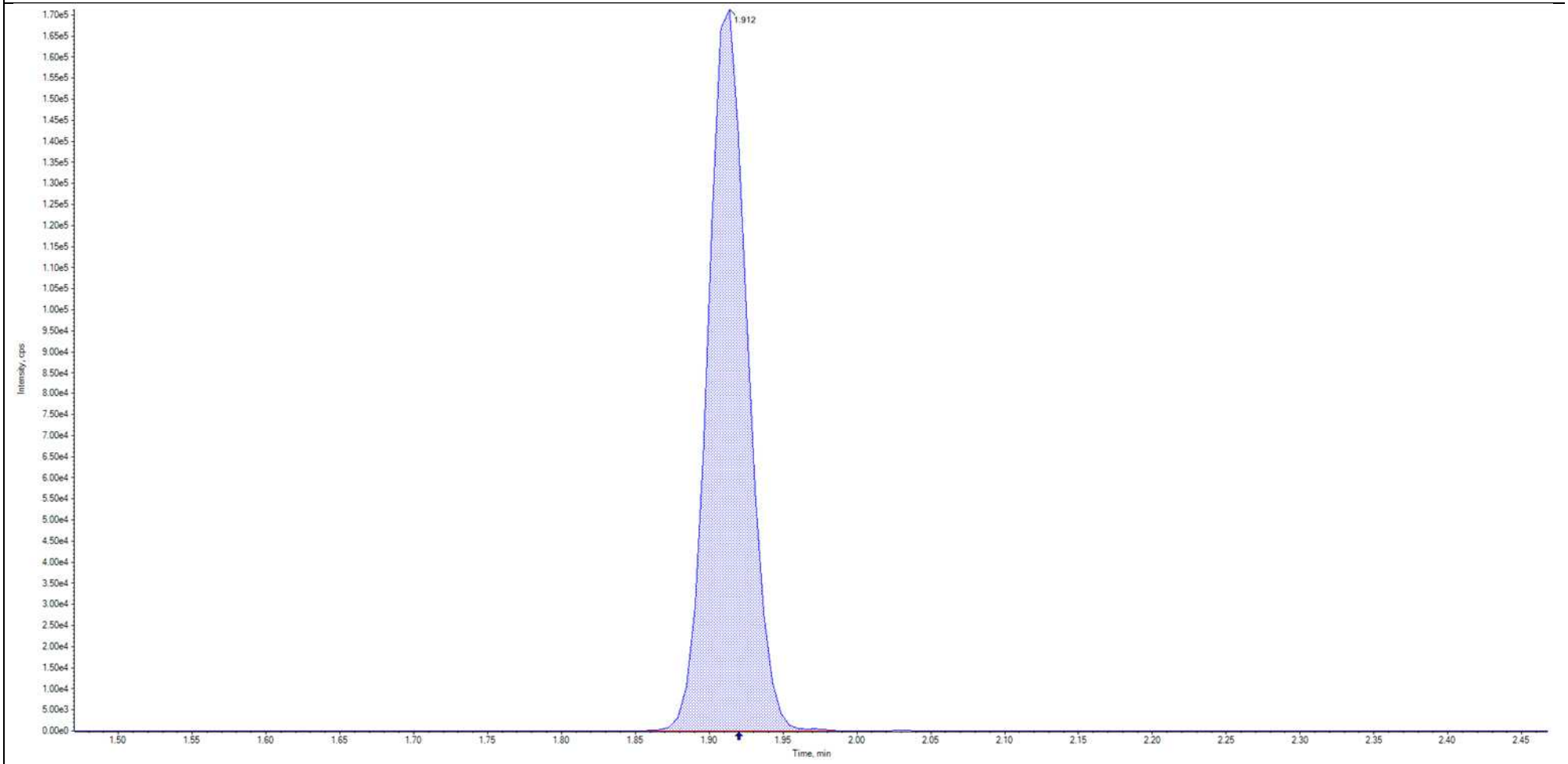
13C2-PFDoA
Sample: L2512271-02R



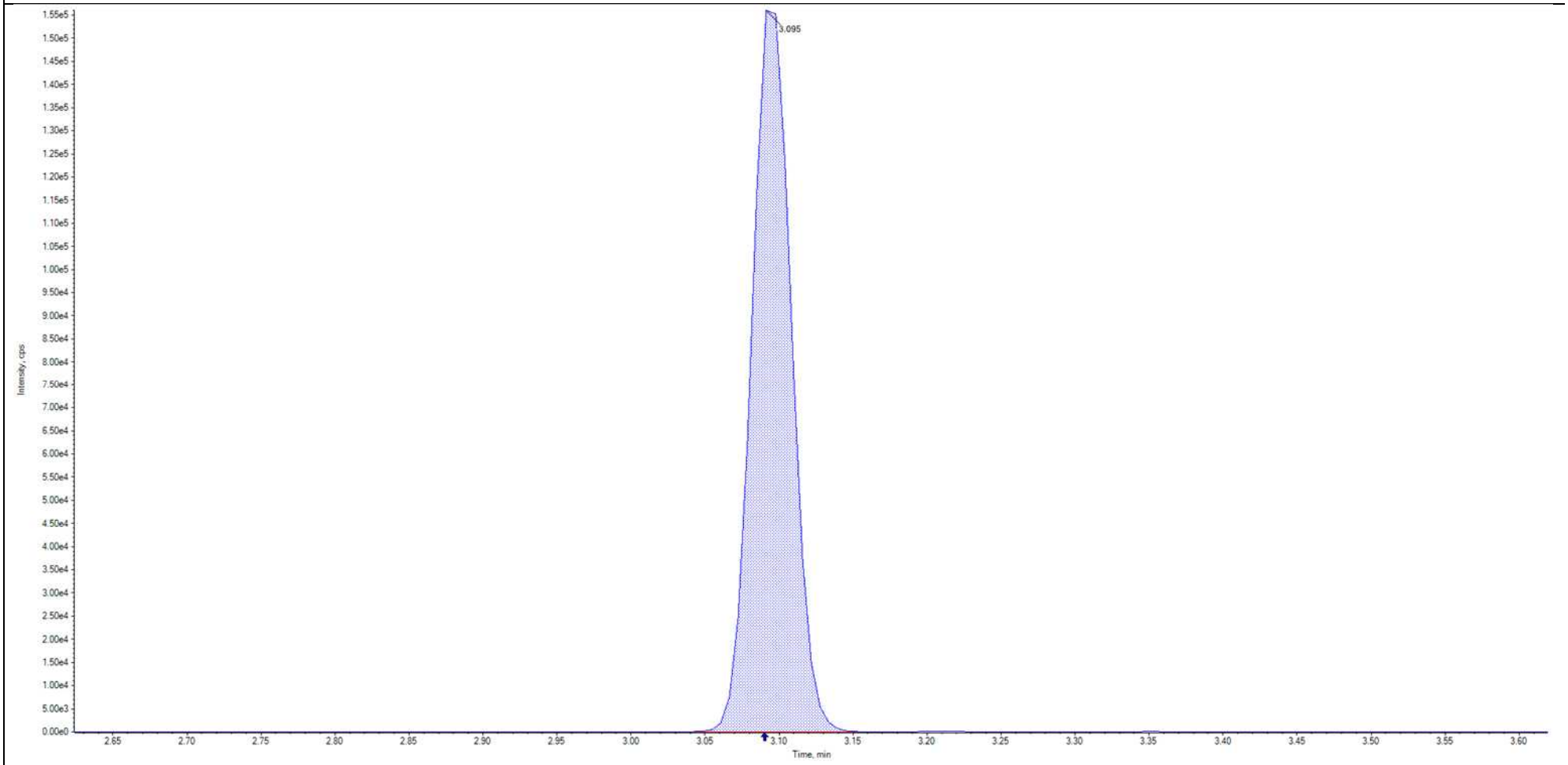
13C2-PFTeDA
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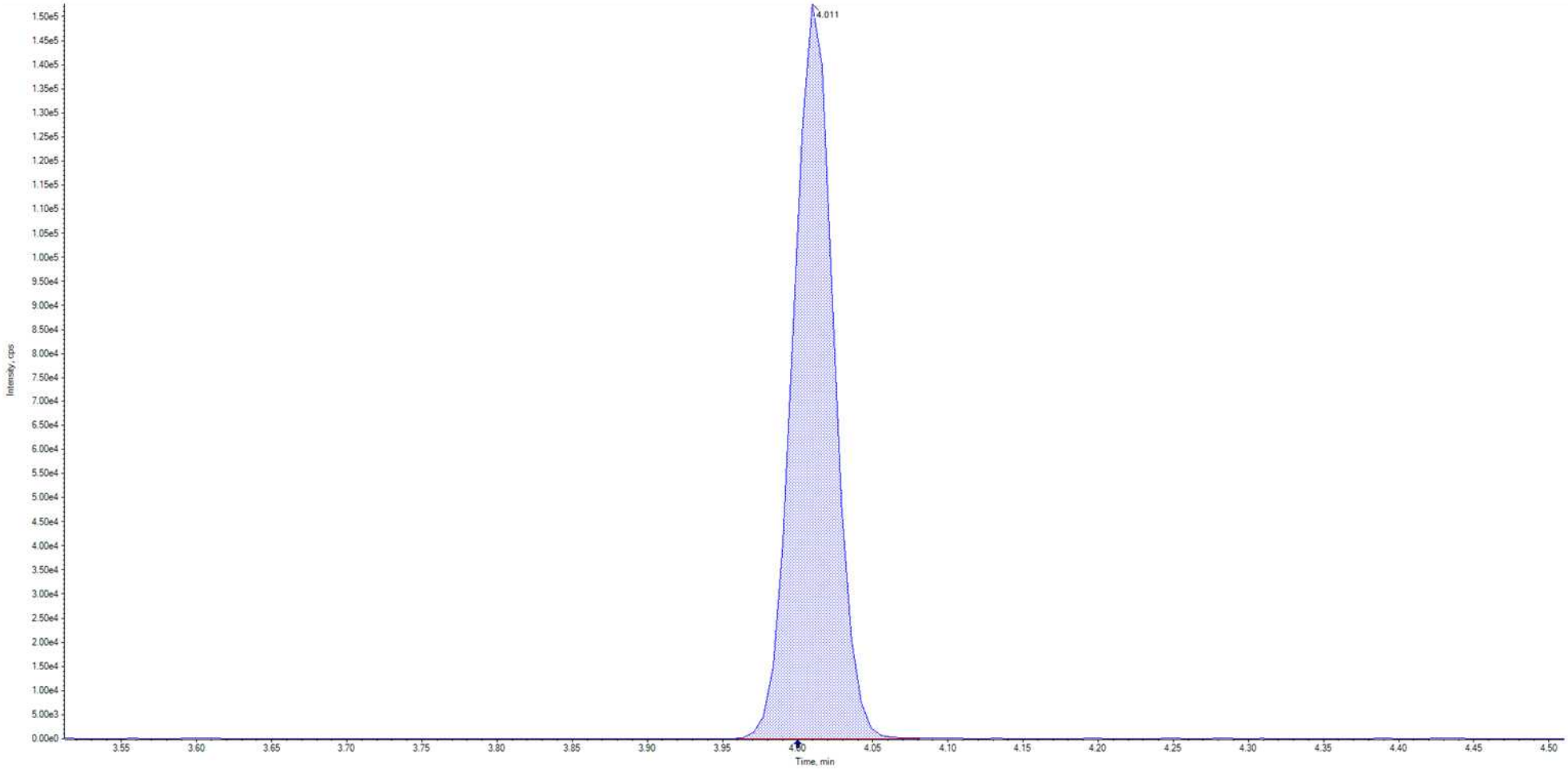
13C3-PFBS
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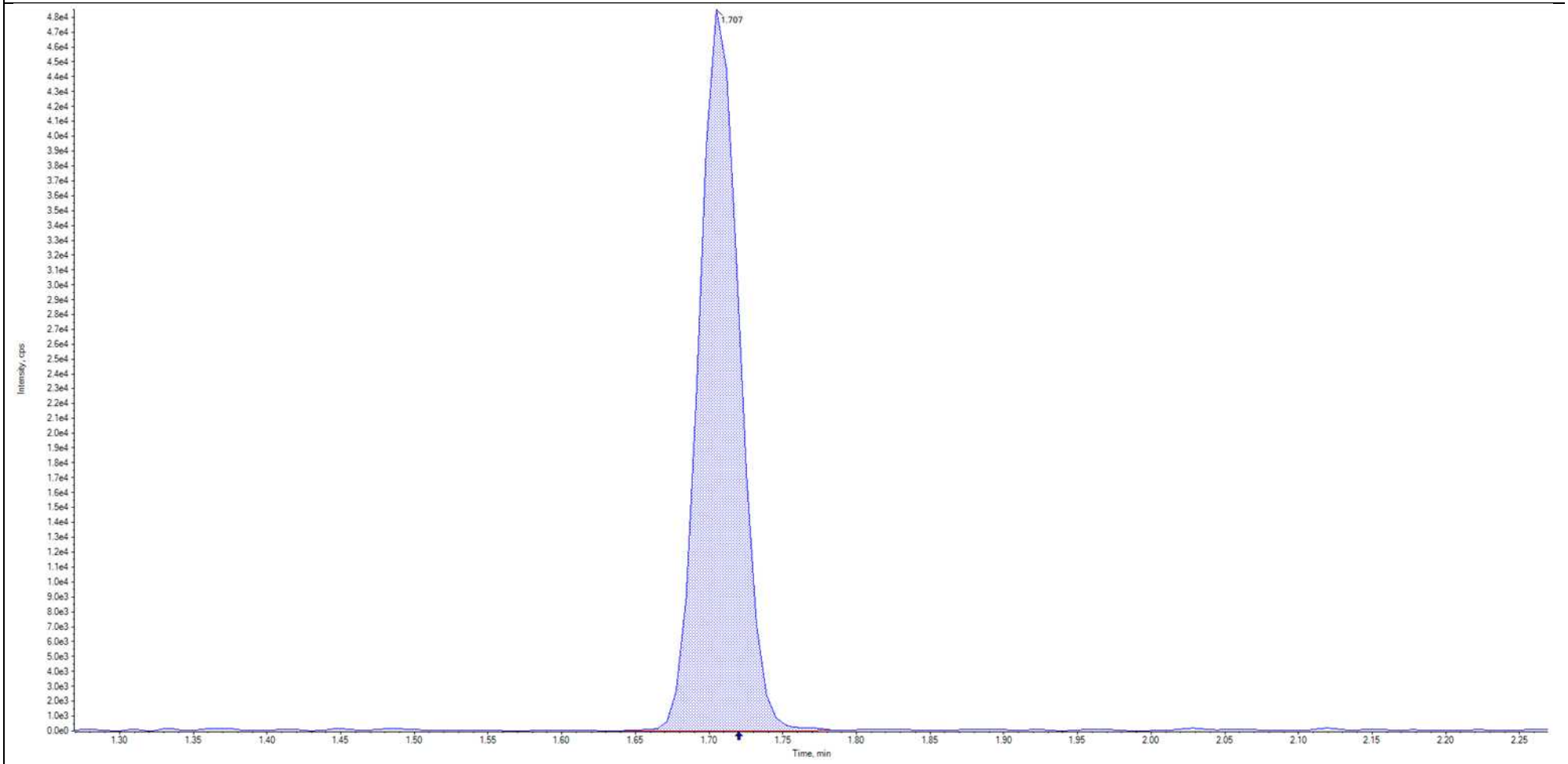
13C3-PFHxS
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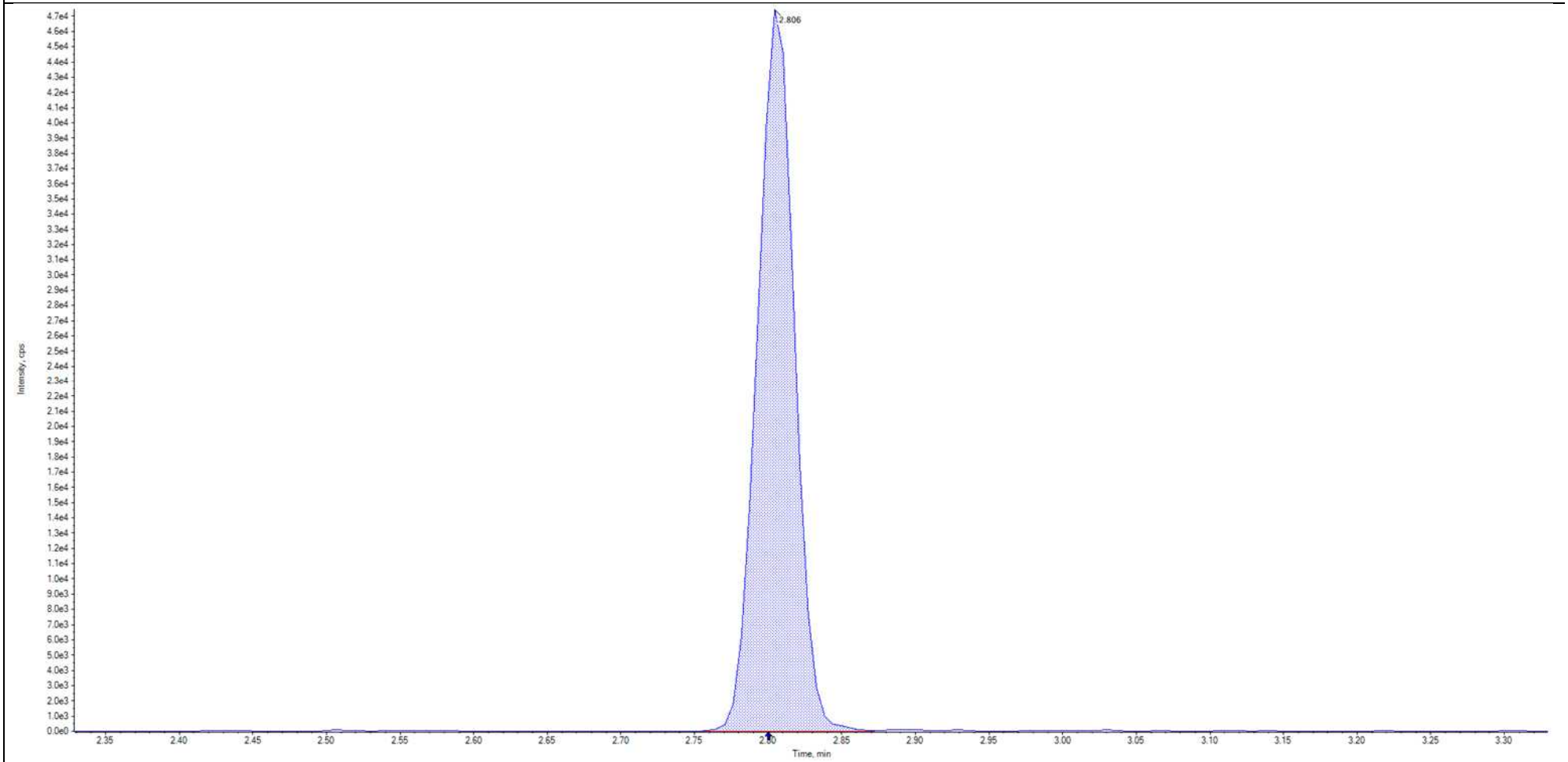
13C8-PFOS
Sample: L2512271-02R



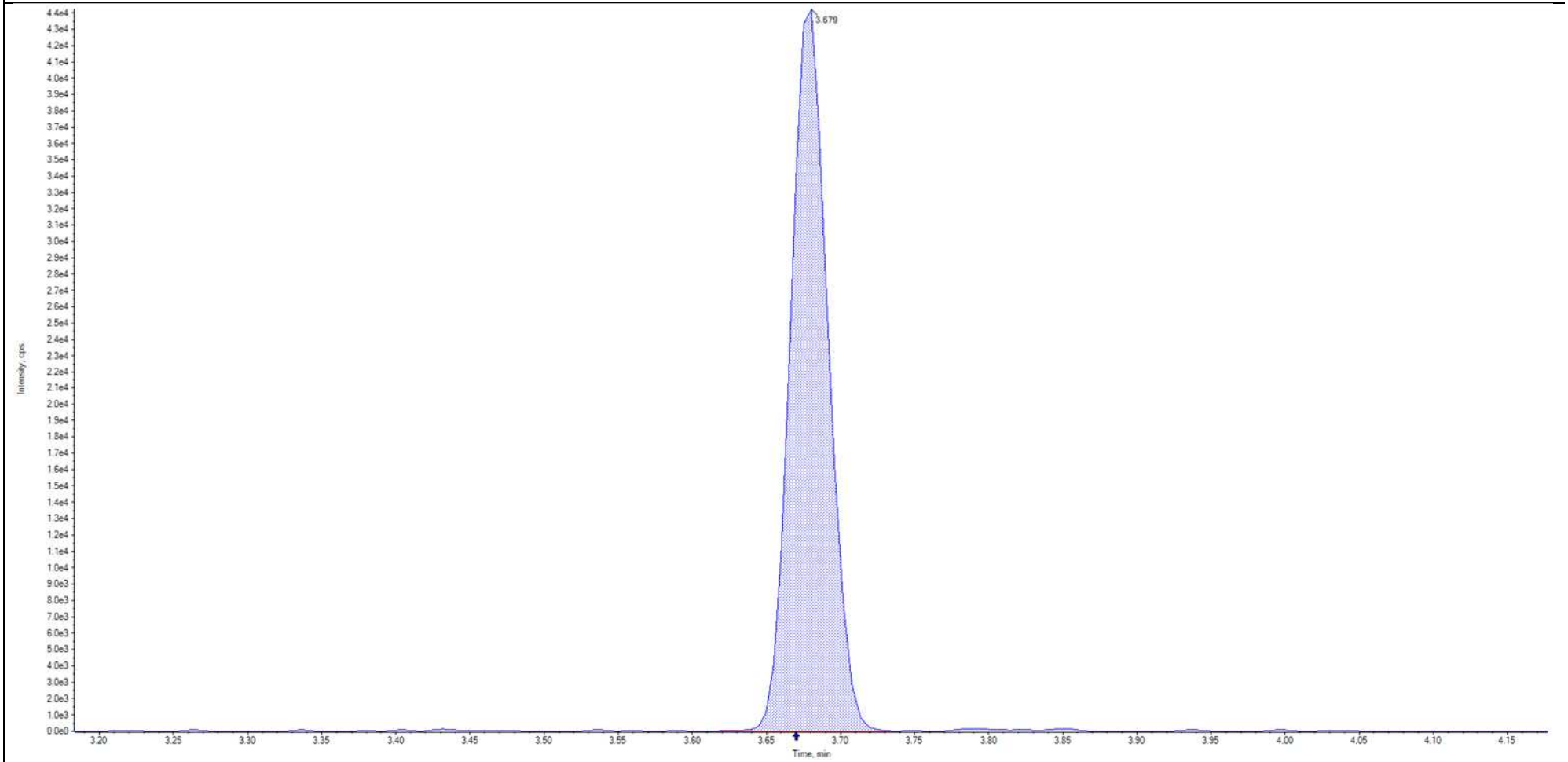
13C2-4:2FTS
Sample: L2512271-02R



13C2-6:2FTS
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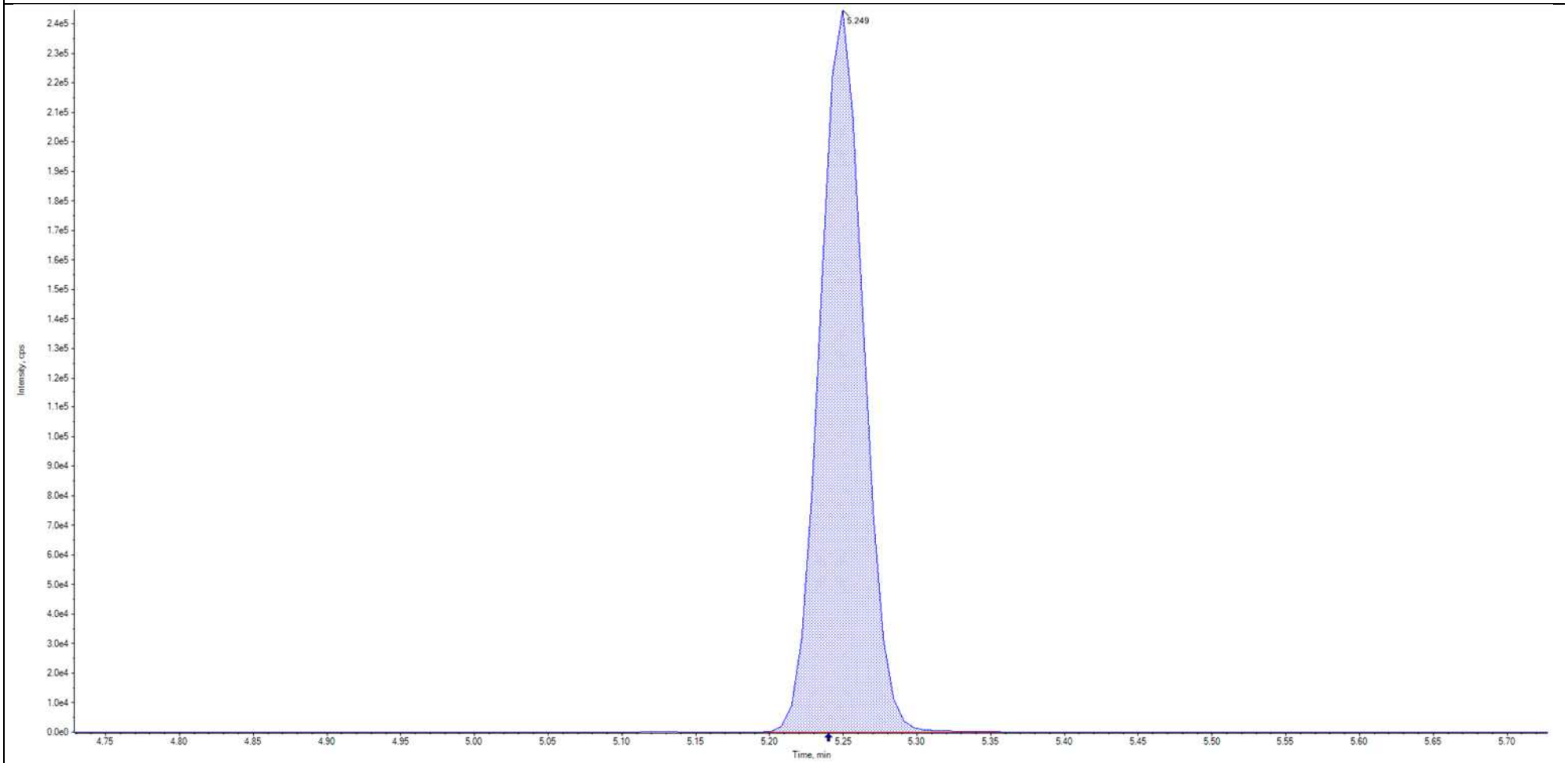


13C2-8:2FTS
Sample: L2512271-02R

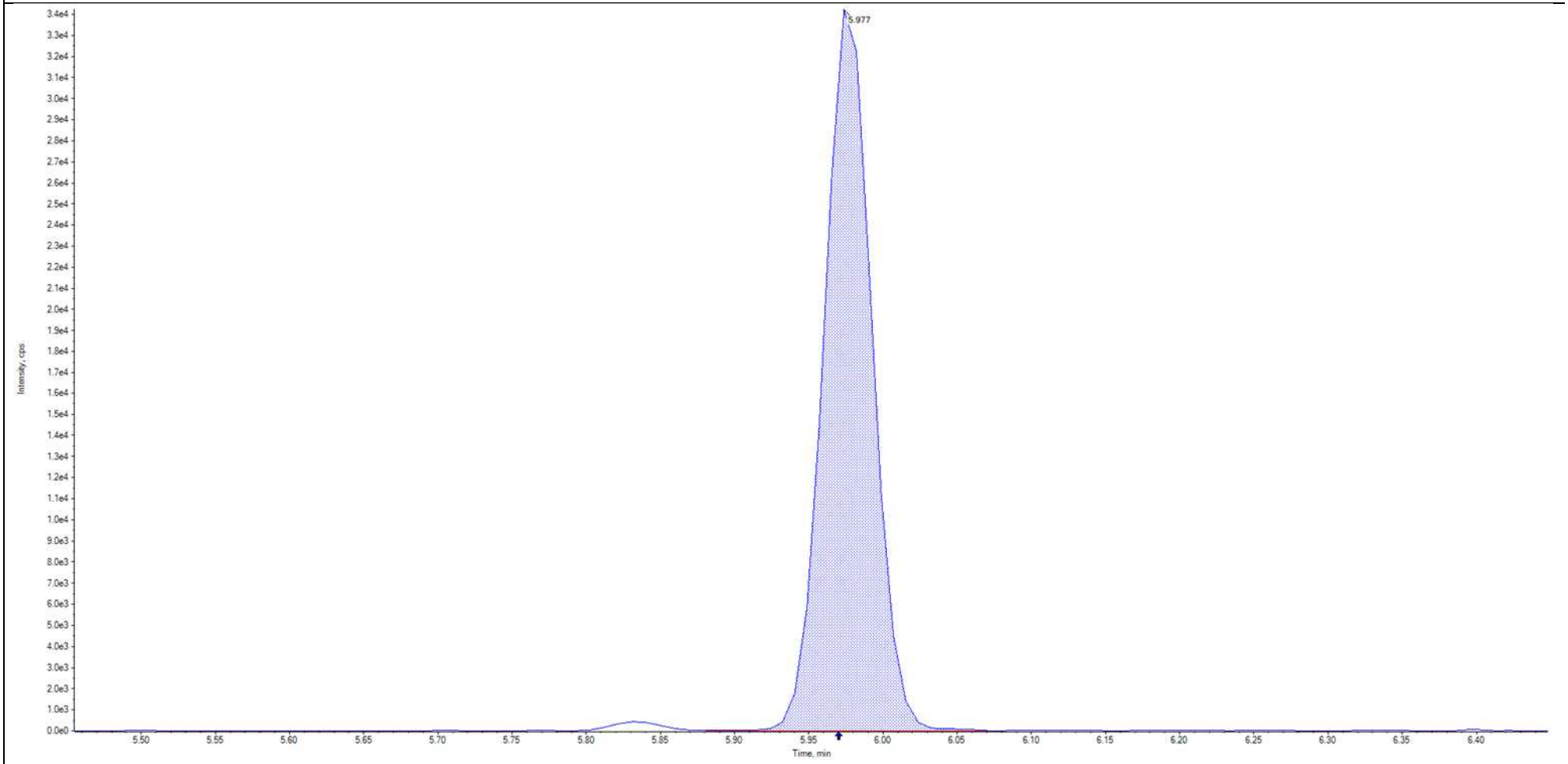


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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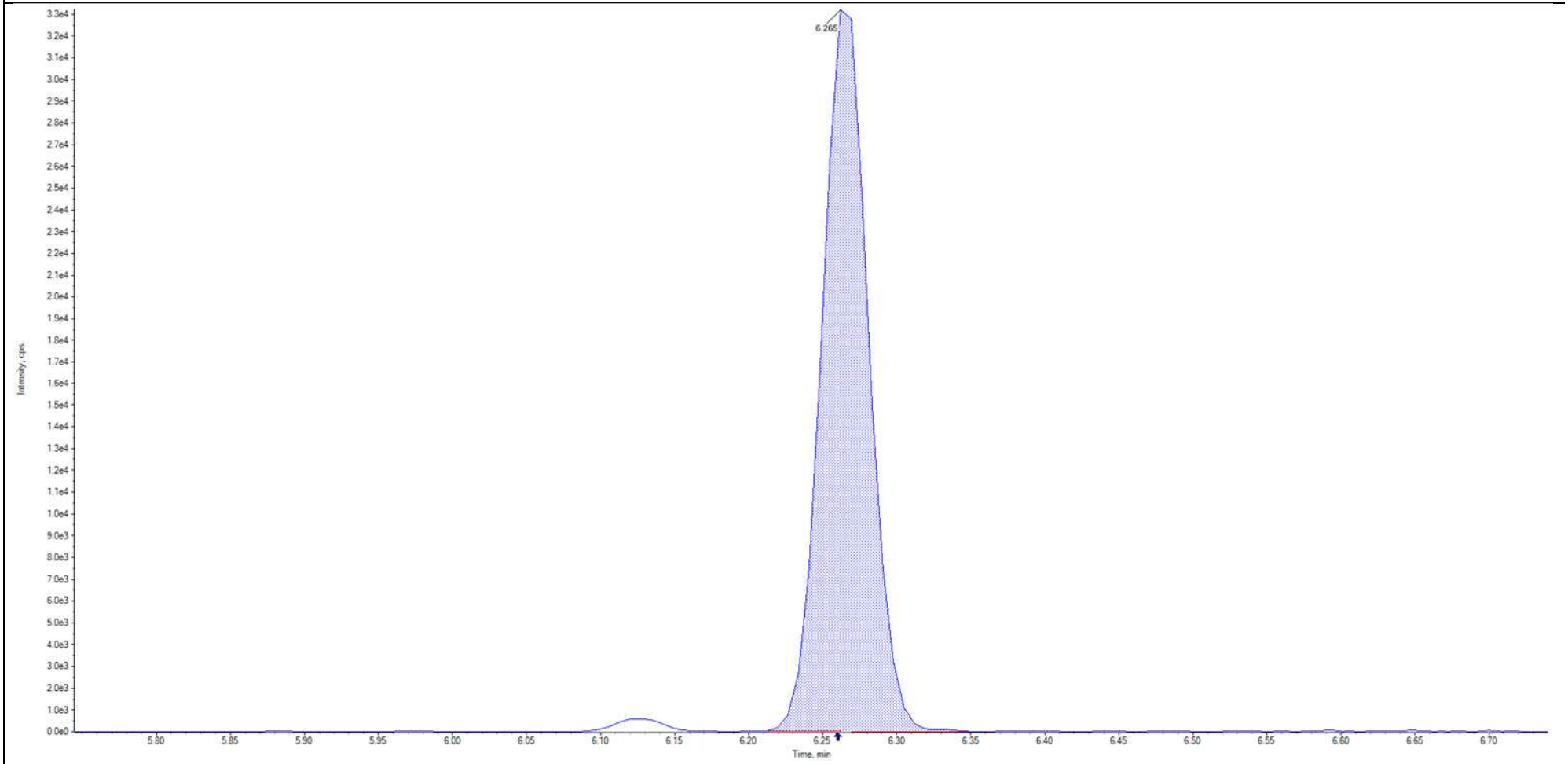
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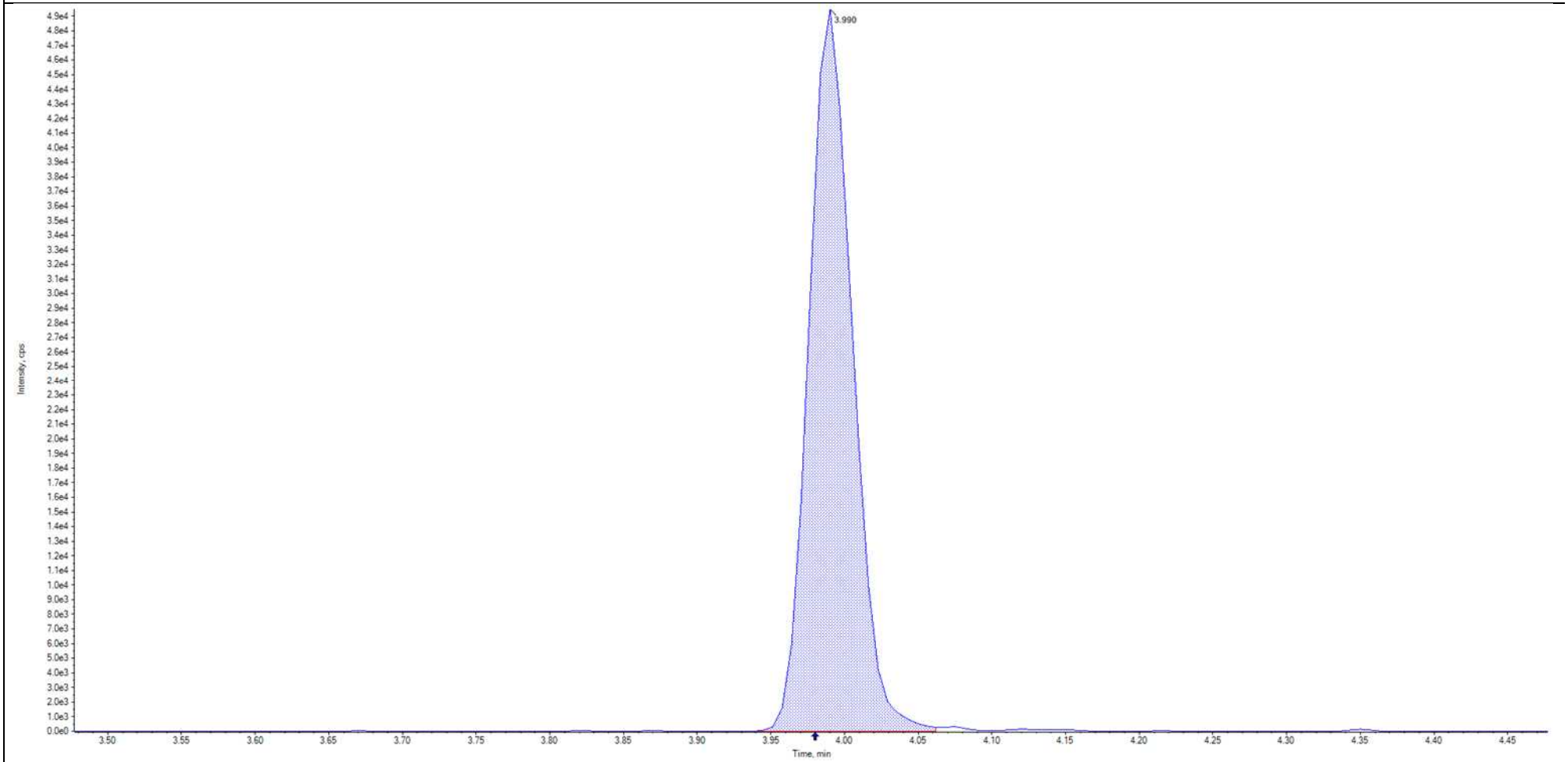
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Sample: L2512271-02R



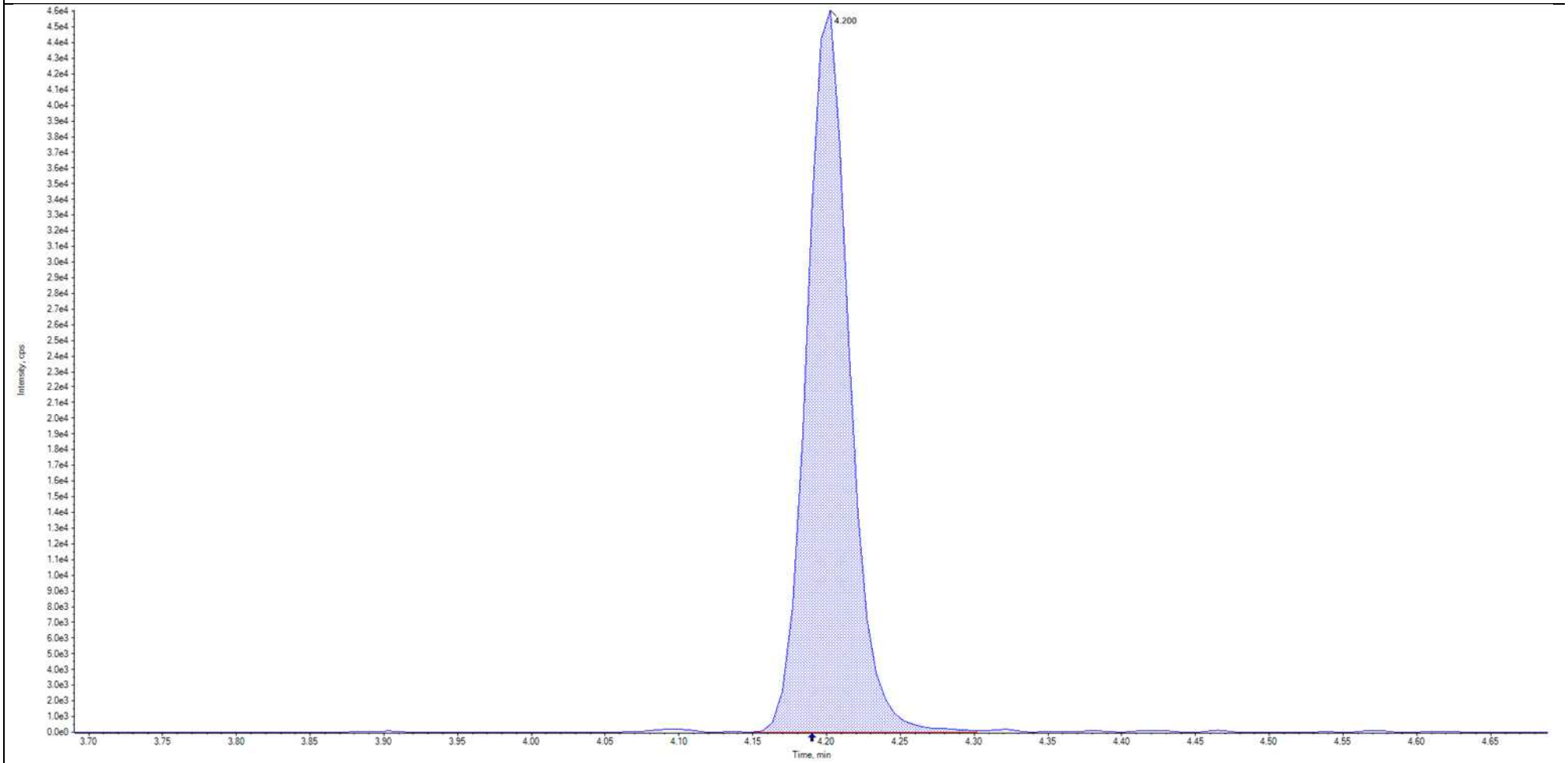
d5-NEtFOSA
Sample: L2512271-02R



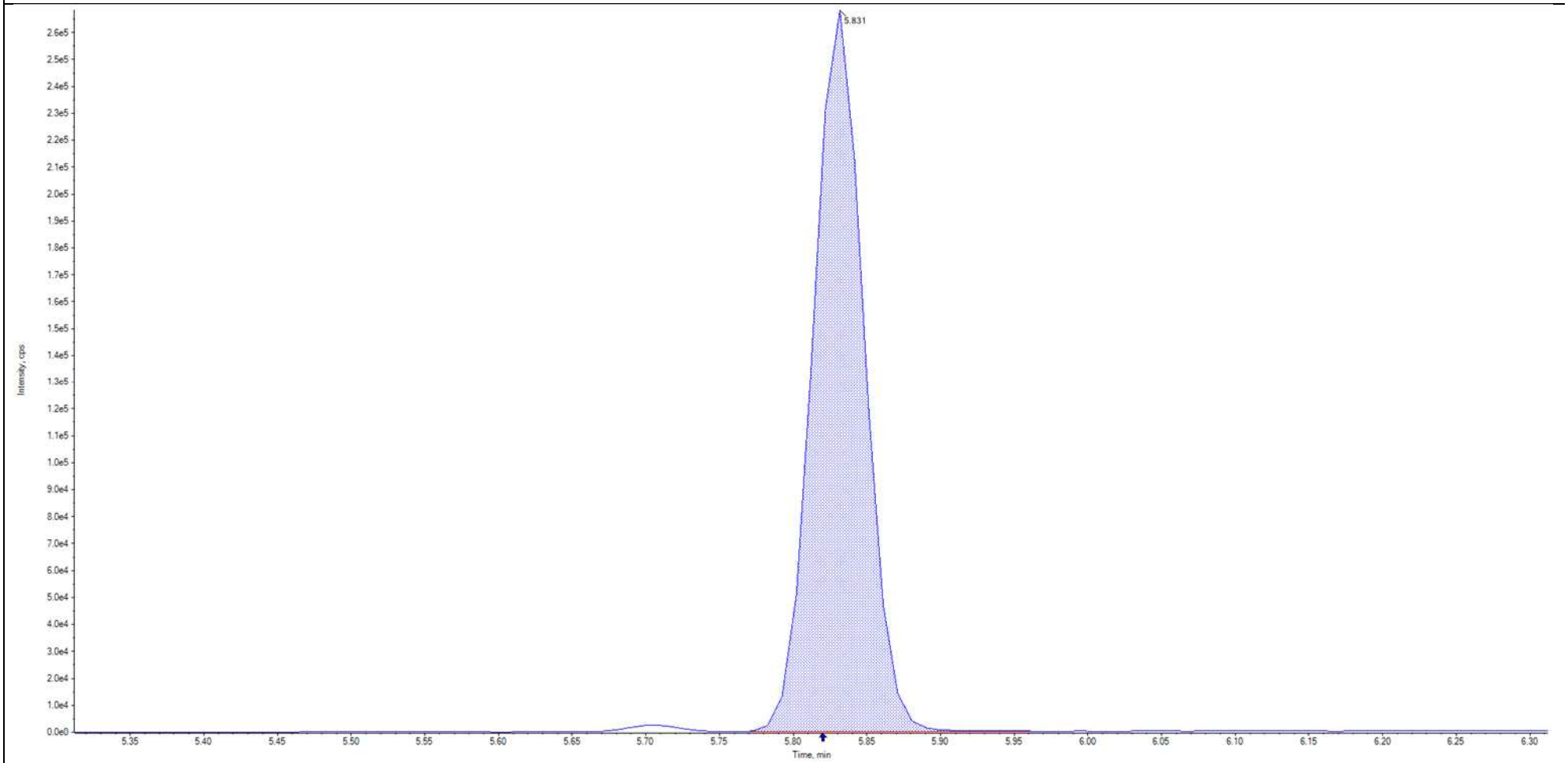
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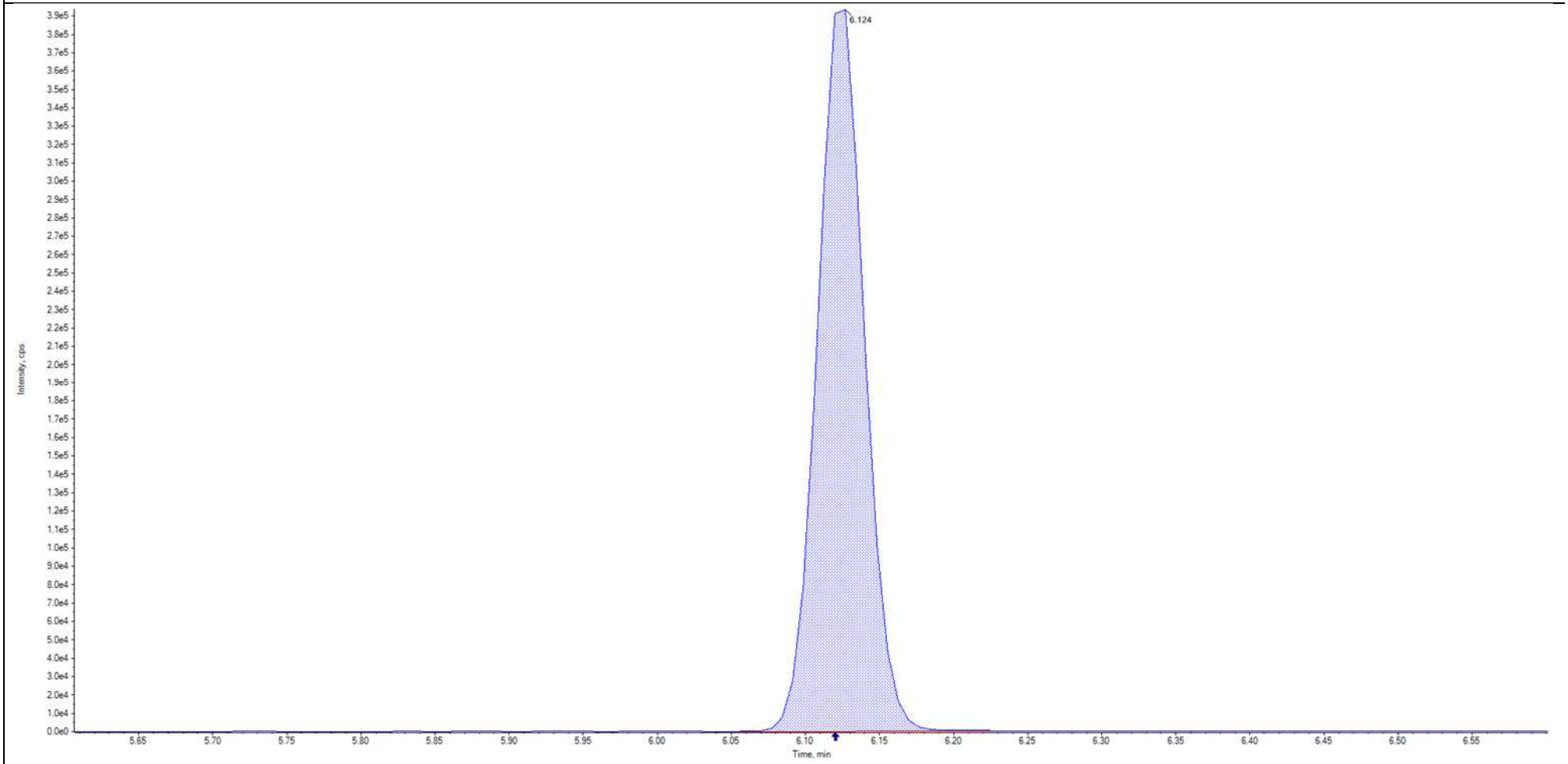
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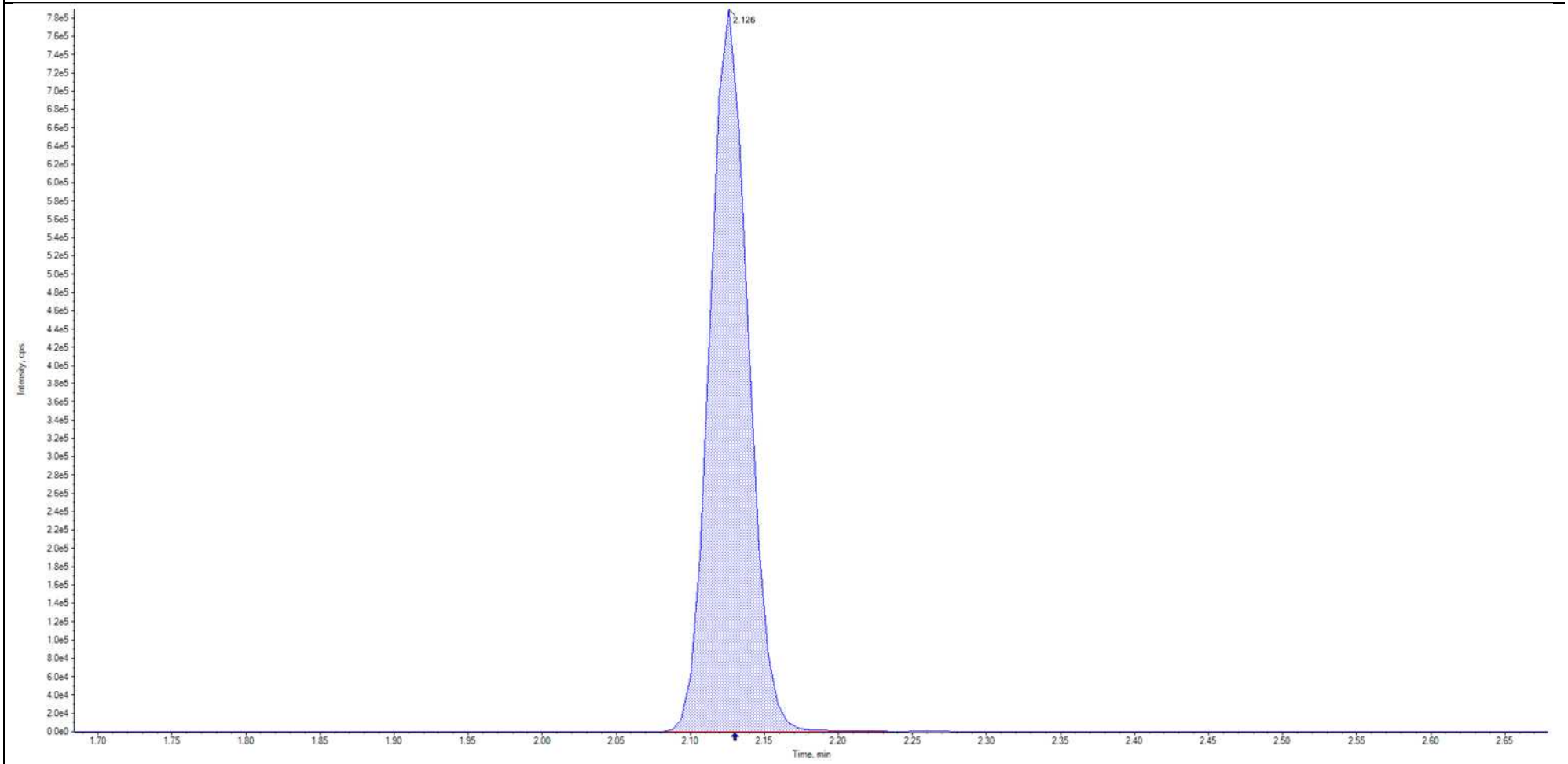
d7-NMeFOSE
Sample: L2512271-02R



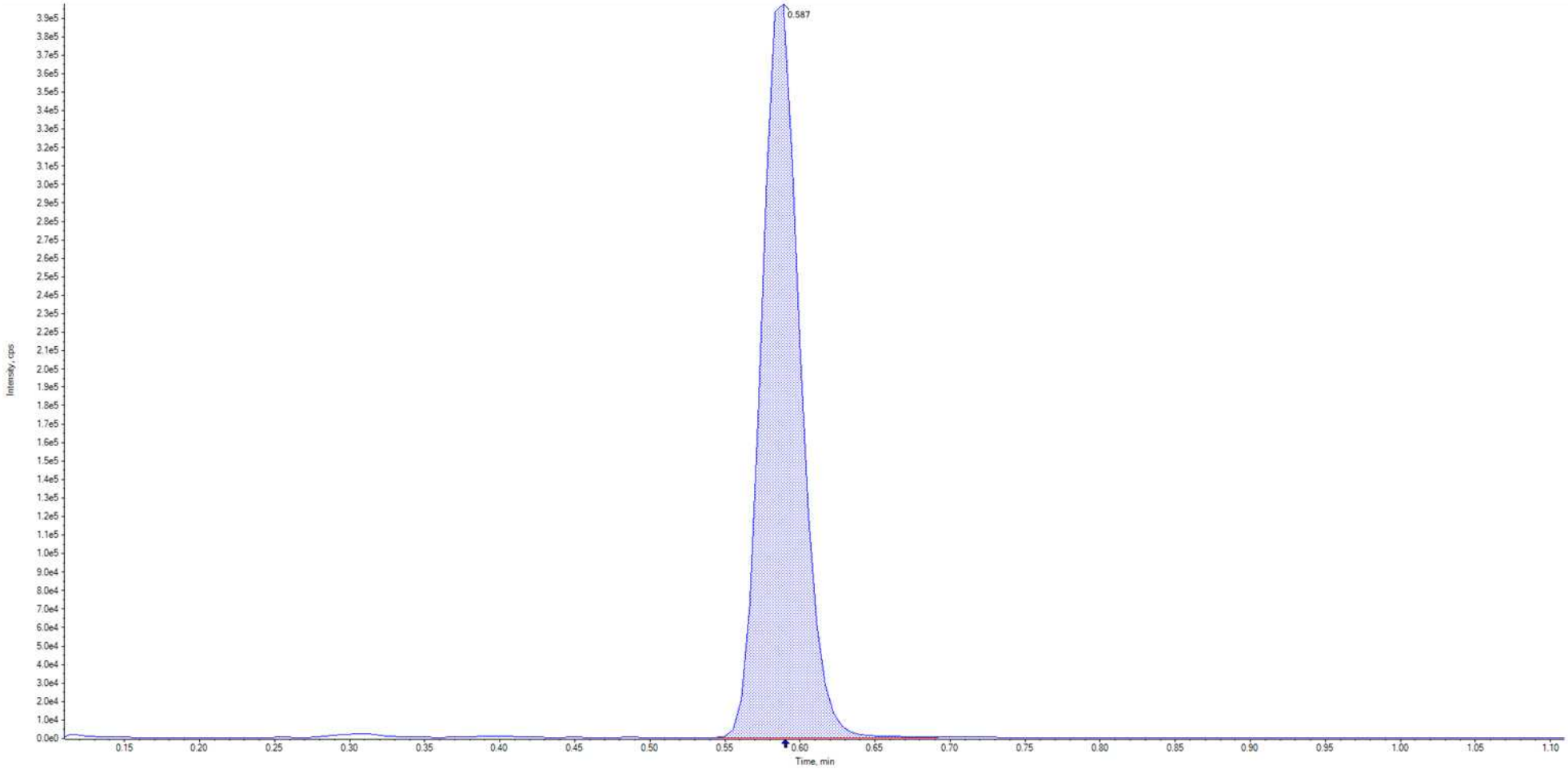
d9-NEtFOSE
Sample: L2512271-02R



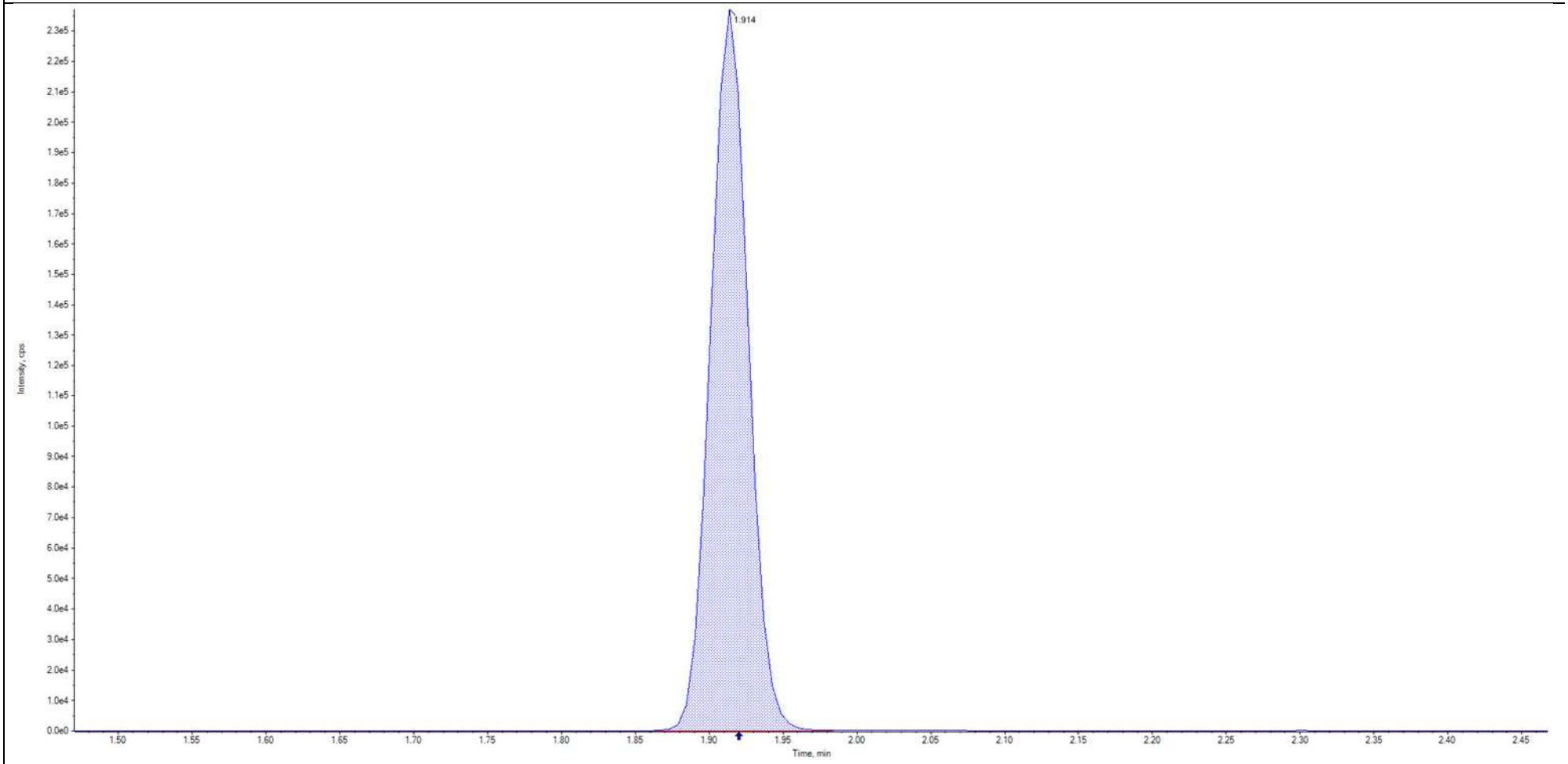
13C3-HFPO-DA
Sample: L2512271-02R



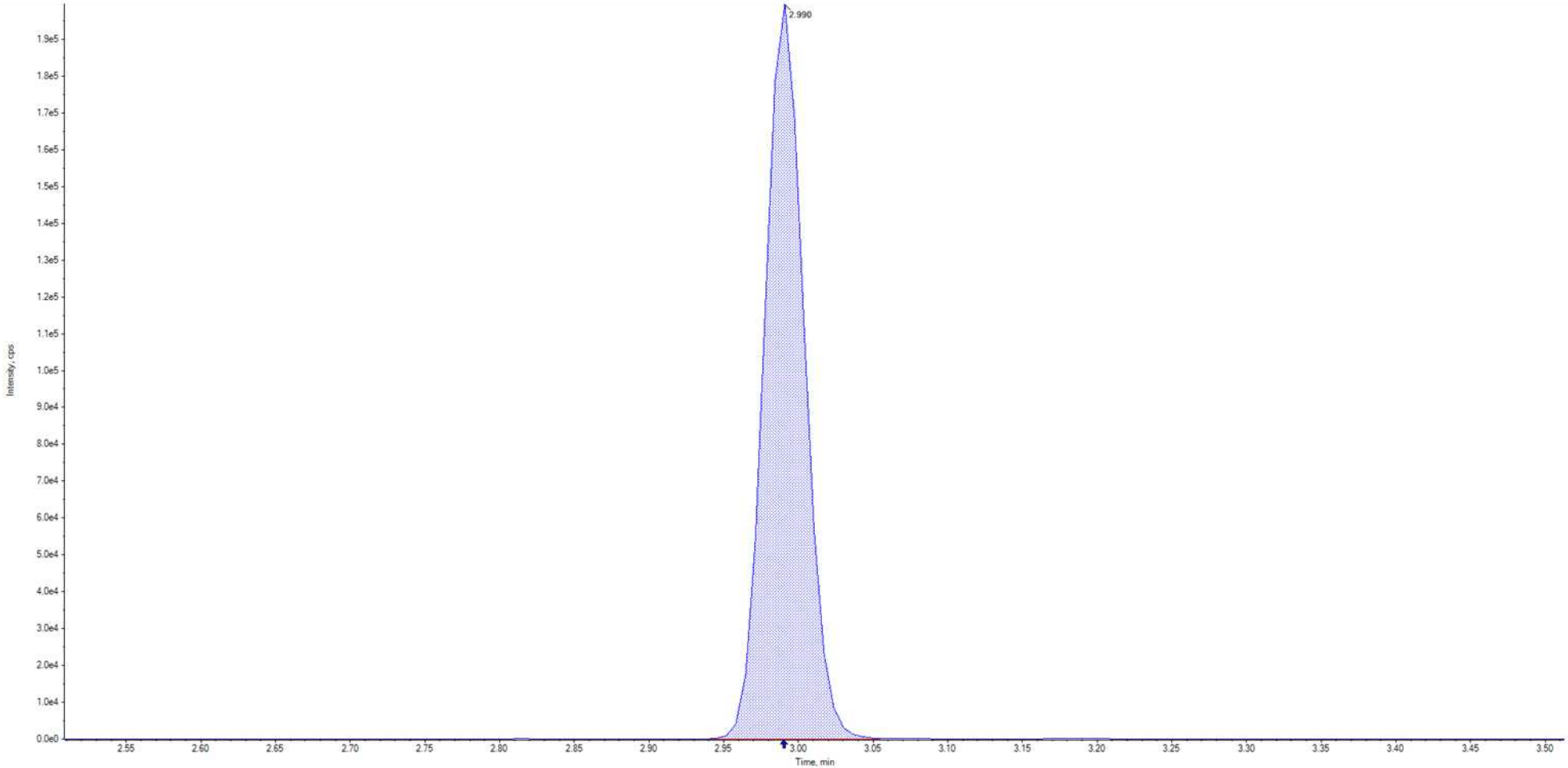
13C3-PFBA
Sample: L2512271-02R



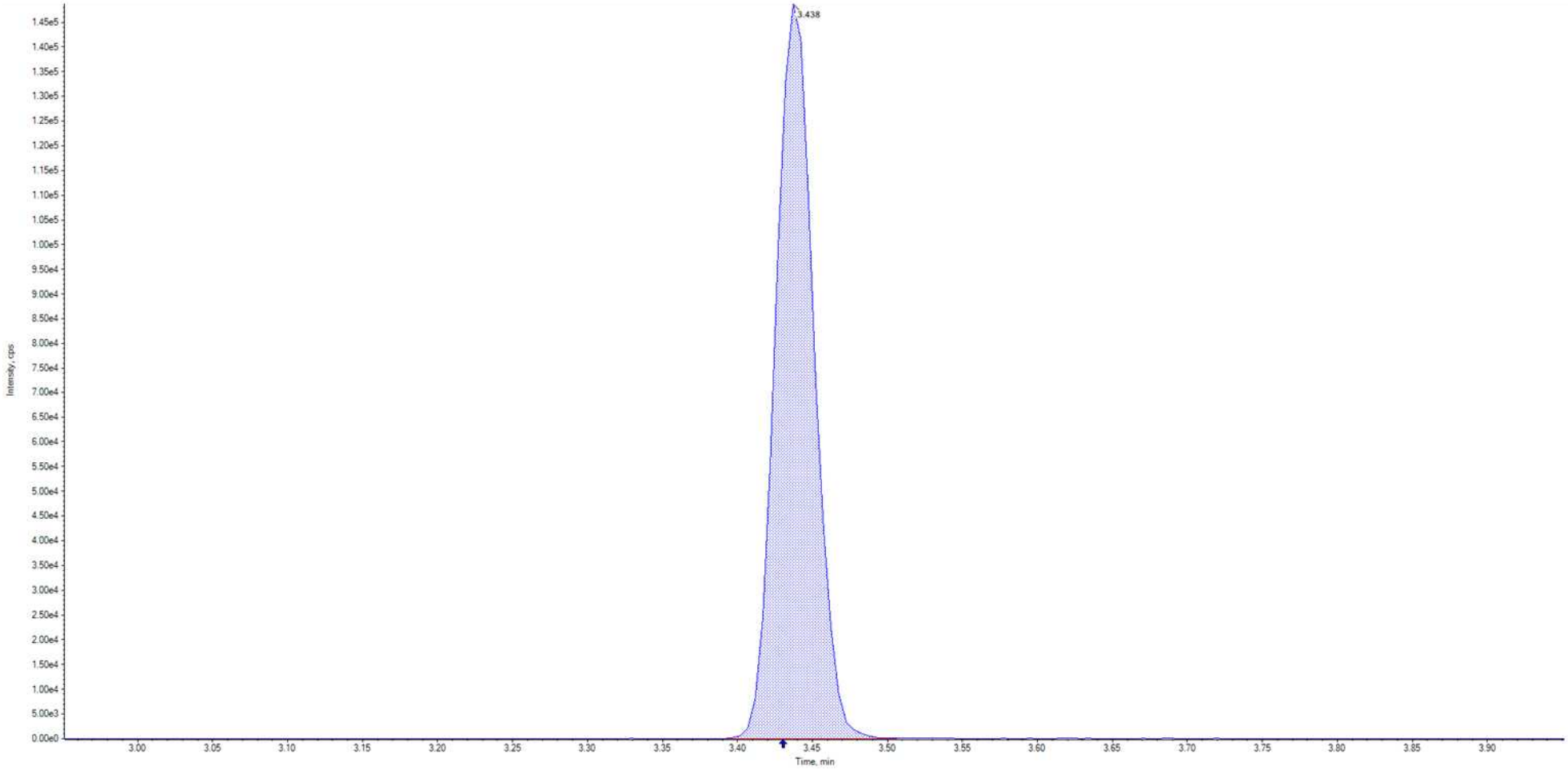
13C2-PFHxA
Sample: L2512271-02R



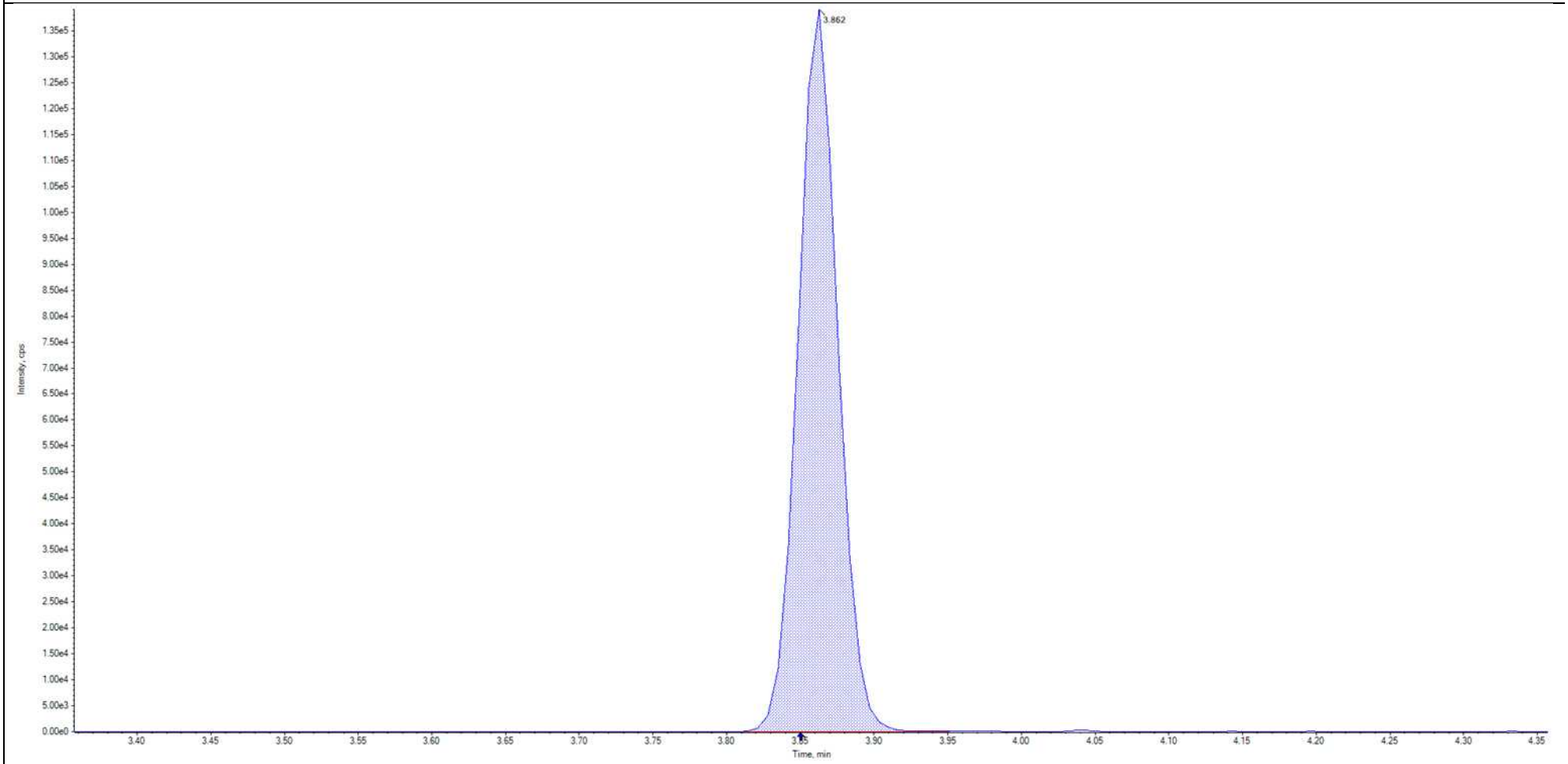
13C4-PFOA
Sample: L2512271-02R



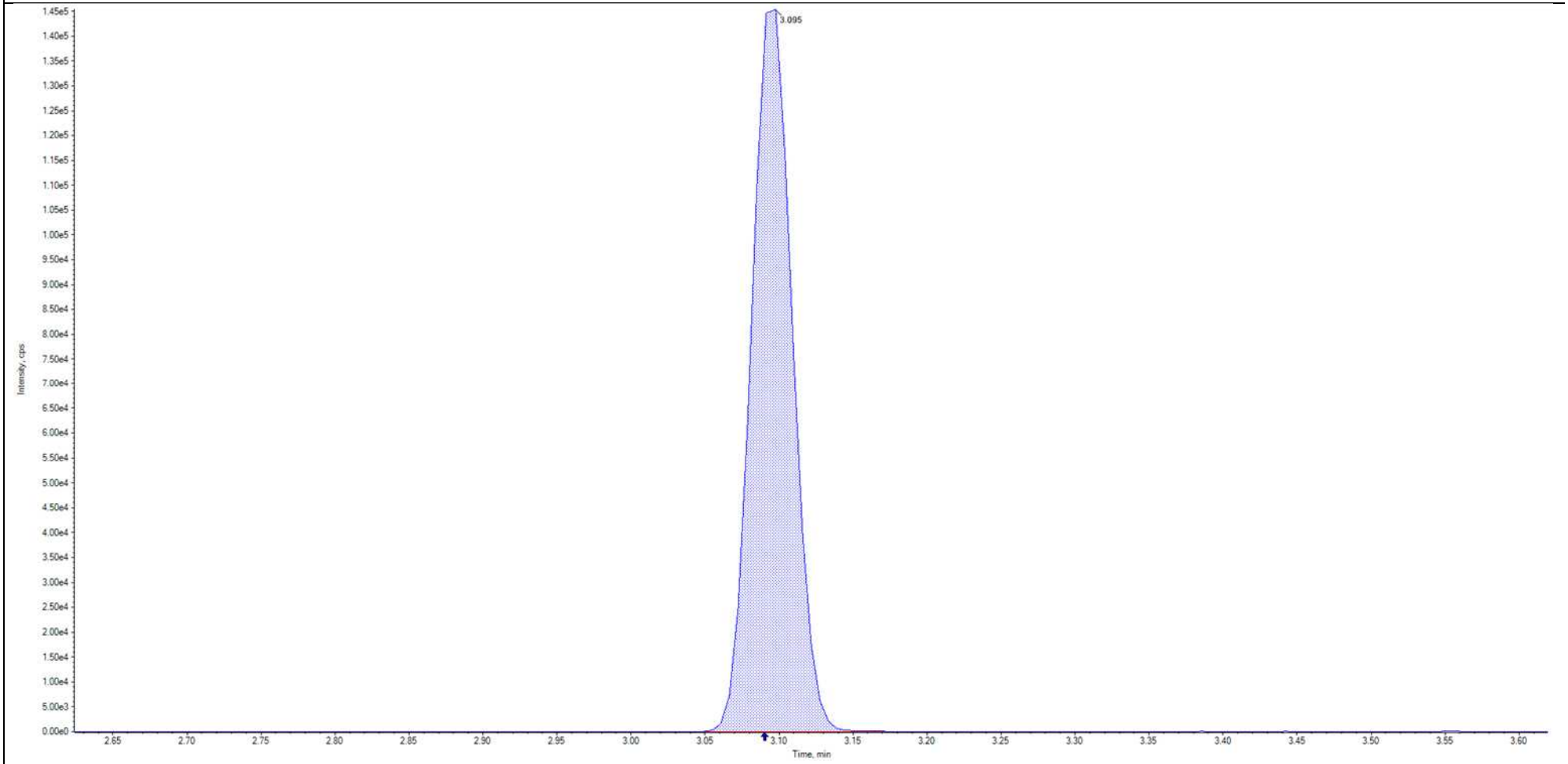
13C5-PFNA
Sample: L2512271-02R



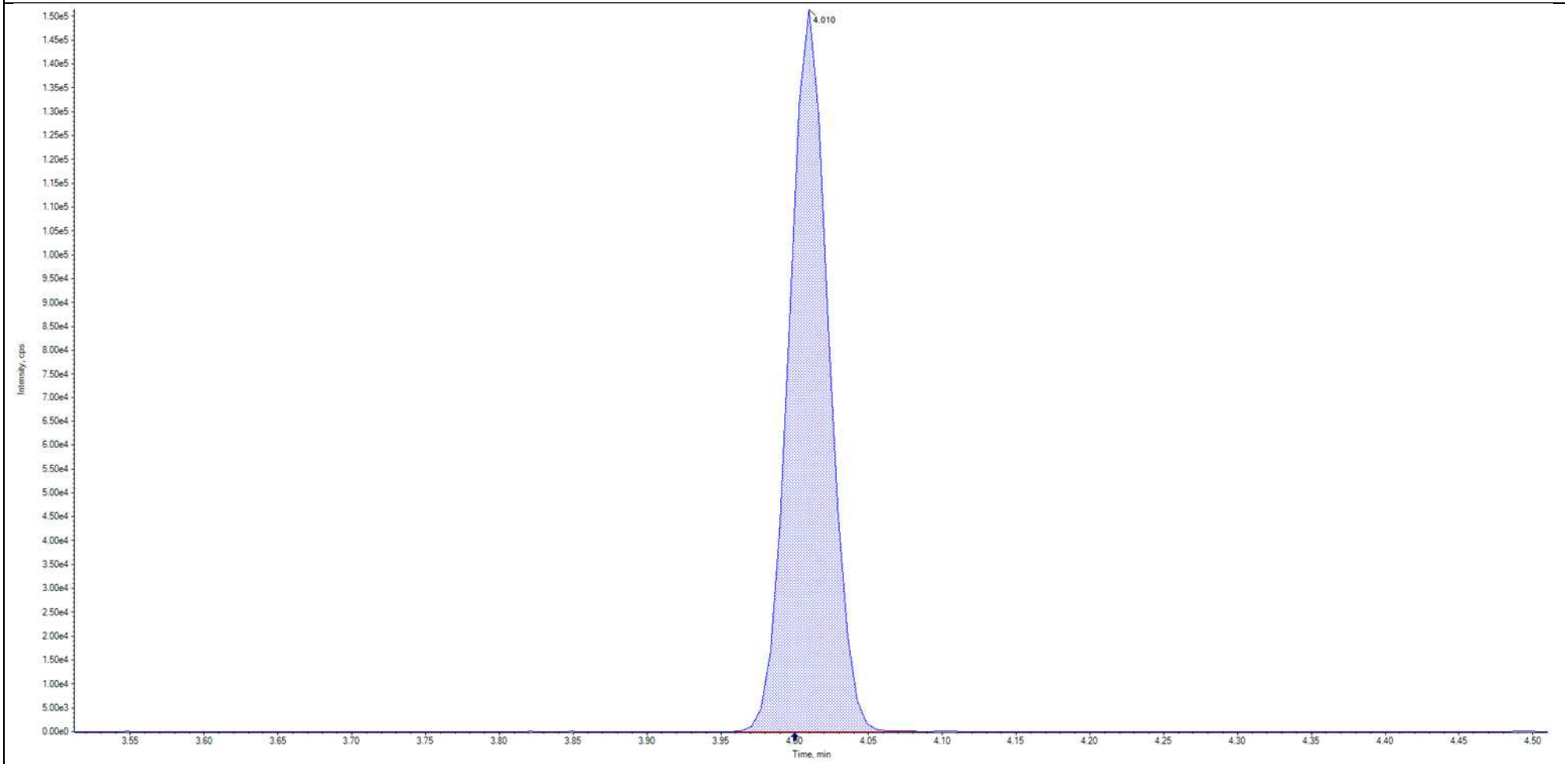
13C2-PFDA
Sample: L2512271-02R



18O2-PFHxS
Sample: L2512271-02R



13C4-PFOS
Sample: L2512271-02R



Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

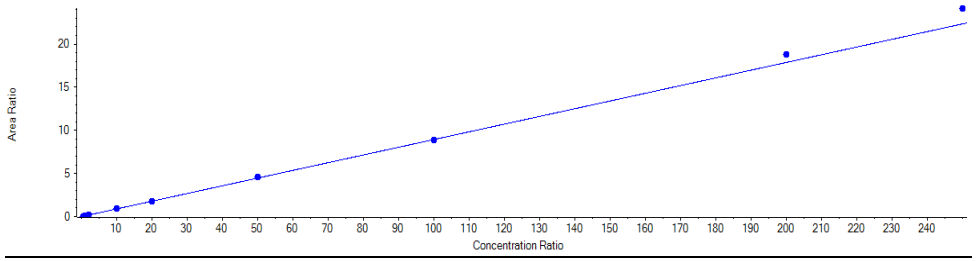
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFBA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	0.59	1783000	61301	0.385	96.2	0.860	201	True	1.49
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	0.59	1947000	127068	0.730	91.3	0.816	339	True	1.60
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	0.60	1892000	314550	1.860	93.0	0.831	530	True	1.21
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	0.59	1734000	1665038	10.744	107.4	0.960	1595	True	1.25
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	0.60	1893000	3301288	19.512	97.6	0.872	2556	True	1.10
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	0.59	1539000	7000230	50.900	101.8	0.910	3394	True	1.55
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	0.59	1447000	12882735	99.592	99.6	0.890	5847	True	1.09
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	0.60	1281000	24068781	210.285	105.1	0.940	7485	True	1.50
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	0.60	1226000	29592587	269.999	108.0	0.965	5613	True	1.34

Analyte Name: PFBA
Regression Equation: Y = 0.894 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.005 Avg. RF = 0.894 RSD = 6.071 RSE = 6.071
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

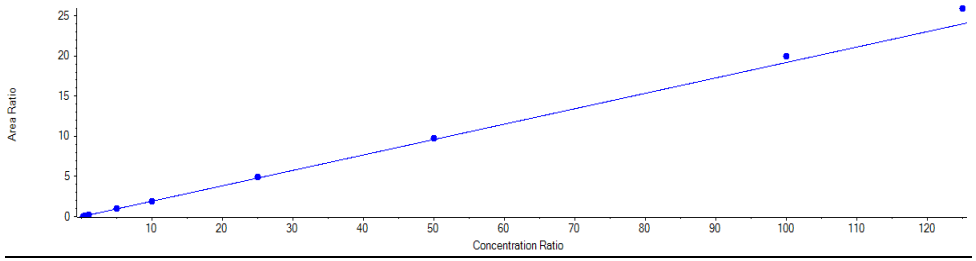
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFPeA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.18	768100	26916	0.183	91.3	0.876	318	True	0.84
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.18	800800	56781	0.369	92.4	0.886	647	True	1.12
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.19	779200	145153	0.970	97.1	0.931	1496	True	1.31
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.17	749300	749202	5.210	104.2	1.000	4025	True	1.17
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.19	815400	1536865	9.820	98.2	0.942	5414	True	1.23
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.18	686600	3385792	25.691	102.8	0.986	7844	True	1.43
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.18	685900	6731661	51.136	102.3	0.981	11860	True	1.13
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.19	660500	13165995	103.859	103.9	0.997	16423	True	1.17
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	1.19	629300	16309147	135.028	108.0	1.037	17981	True	1.14

Analyte Name: PFPeA
Regression Equation: Y = 0.960 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.011 Avg. RF = 0.960 RSD = 5.656 RSE = 5.656
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

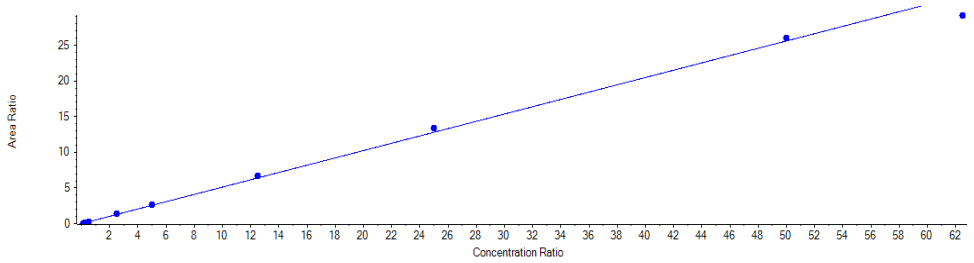
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFHxA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.92	341100	18390	0.105	105.3	1.348	243	True	1.31
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.92	402500	36018	0.175	87.4	1.119	503	True	1.04
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.93	359800	89541	0.486	97.2	1.244	1186	True	1.38
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.92	337900	452175	2.612	104.5	1.338	3564	True	0.98
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.93	373200	993215	5.196	103.9	1.331	8644	True	1.25
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.92	307600	2055627	13.046	104.4	1.337	10853	True	1.08
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.92	319800	4283855	26.153	104.6	1.340	7697	True	1.10
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.93	307400	8005794	50.842	101.7	1.302	30867	True	1.32
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	1.93	333700	9738902	56.977	91.2	1.167	10457	True	1.12

Analyte Name: PFHxA
Regression Equation: Y = 1.281 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.034 Avg. RF = 1.281 RSD = 6.636 RSE = 6.636
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

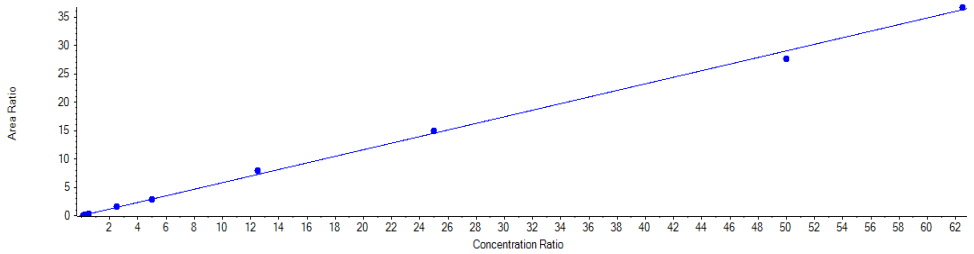
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFHpA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.50	334900	19125	0.098	98.4	1.428	232	True	1.53
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.49	317100	34005	0.185	92.3	1.341	362	True	1.28
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.51	370900	100230	0.465	93.1	1.351	1201	True	1.38
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.50	318100	510666	2.765	110.6	1.605	3759	True	1.20
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.50	383300	1081988	4.861	97.2	1.411	5443	True	1.13
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.49	284400	2271101	13.751	110.0	1.597	8675	True	1.15
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.49	310700	4615047	25.582	102.3	1.485	24341	True	1.10
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	2.51	335400	9253281	47.505	95.0	1.379	16136	True	1.07
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.50	318800	11695516	63.173	101.1	1.467	14609	True	1.04

Analyte Name: PFHpA
Regression Equation: Y = 1.452 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.039 Avg. RF = 1.452 RSD = 6.715 RSE = 6.715
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

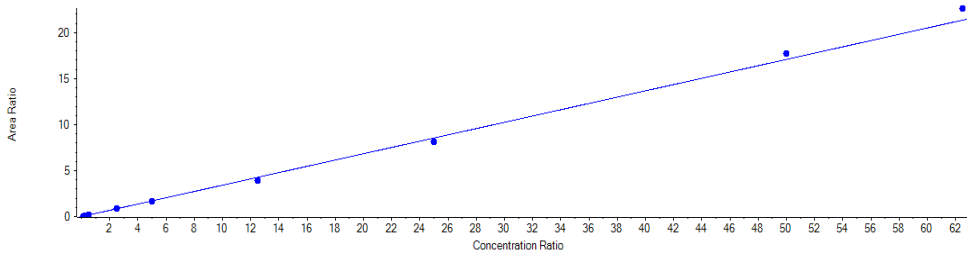
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFOA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.99	586700	21875	0.109	109.1	0.932	109	True	0.17
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.99	631600	43232	0.200	100.1	0.856	182	True	0.16
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.00	656900	104430	0.465	93.0	0.795	304	True	0.15
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.99	590900	510178	2.525	101.0	0.863	671	True	0.15
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.99	619900	1059244	4.998	100.0	0.854	807	True	0.18
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.99	570400	2251933	11.547	92.4	0.790	833	True	0.17
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.98	573900	4650748	23.702	94.8	0.810	839	True	0.16
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.00	529000	9382514	51.876	103.8	0.887	835	True	0.17
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.99	539700	12214696	66.203	105.9	0.905	874	True	0.17

Analyte Name: PFOA
Regression Equation: Y = 0.855 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.020 Avg. RF = 0.855 RSD = 5.770 RSE = 5.770
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

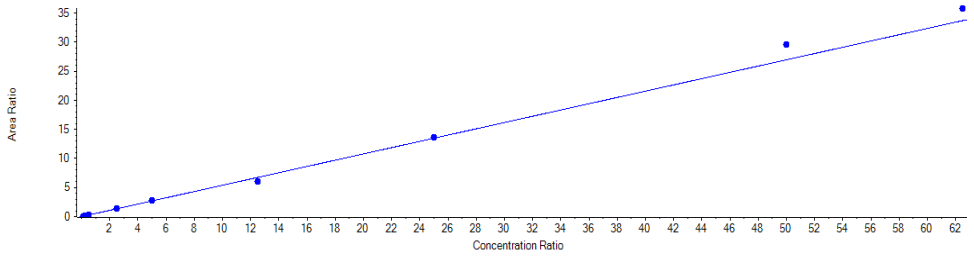
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFNA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	3.43	243800	13249	0.101	100.7	0.679	81	True	0.16
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	3.43	282300	27755	0.182	91.1	0.614	111	True	0.13
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.44	273600	68495	0.464	92.8	0.626	267	True	0.16
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	3.43	251700	351968	2.592	103.7	0.699	616	True	0.14
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	3.44	267500	754244	5.227	104.5	0.705	782	True	0.17
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	3.43	269400	1644711	11.317	90.5	0.610	778	True	0.16
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	3.43	239900	3254324	25.146	100.6	0.678	802	True	0.17
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.44	234300	6937733	54.893	109.8	0.740	819	True	0.16
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	3.44	246800	8836404	66.367	106.2	0.716	908	True	0.16

Analyte Name: PFNA
Regression Equation: Y = 0.674 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.038 Avg. RF = 0.674 RSD = 6.972 RSE = 6.972
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

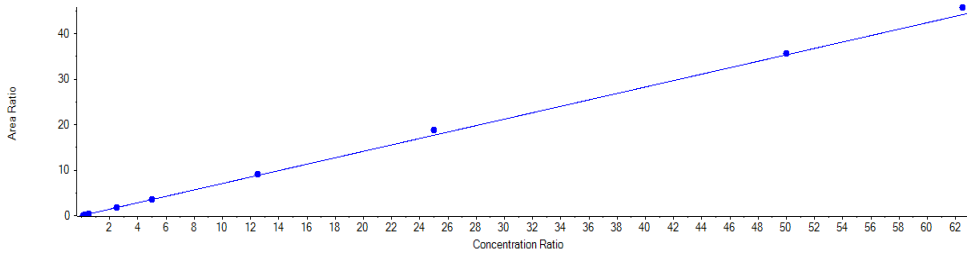
Alpha Analytical Inc.
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2
Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFDA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	3.85	293500	19483	0.094	93.9	0.830	213	True	1.28
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	3.85	318300	39411	0.175	87.5	0.774	414	True	0.94
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.86	305500	109021	0.505	100.9	0.892	1123	True	1.03
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	3.85	282500	506127	2.533	101.3	0.896	5081	True	1.34
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	3.86	303500	1098134	5.116	102.3	0.905	11005	True	1.33
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	3.85	261700	2393212	12.928	103.4	0.914	25084	True	1.01
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	3.85	260500	4900144	26.597	106.4	0.941	50712	True	1.19
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.87	273800	9749585	50.343	100.7	0.890	97540	True	1.16
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	3.86	253600	11610738	64.733	103.6	0.916	108690	True	1.22

Analyte Name: PFDA
Regression Equation: Y = 0.884 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.041 Avg. RF = 0.884 RSD = 5.775 RSE = 5.775
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

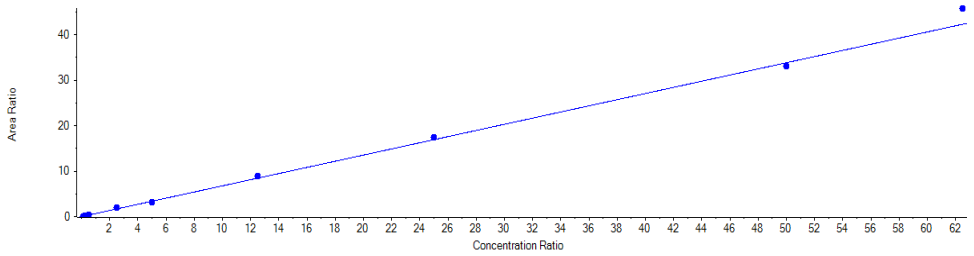
Alpha Analytical Inc.
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFUnA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	4.26	341800	20821	0.090	89.9	0.762	227	True	1.04
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.26	348400	43471	0.184	92.1	0.780	522	True	0.95
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.26	345900	112775	0.481	96.3	0.815	1269	True	1.04
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.26	311100	586262	2.782	111.3	0.942	6865	True	1.22
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.26	344600	1126033	4.824	96.5	0.817	13090	True	0.93
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.25	299000	2646158	13.066	104.5	0.885	31128	True	0.85
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.25	282200	4930660	25.798	103.2	0.874	57705	True	0.98
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.27	279400	9277433	49.015	98.0	0.830	23879	True	1.09
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.26	270200	12375537	67.627	108.2	0.916	30023	True	1.07

Analyte Name: PFUnA
Regression Equation: Y = 0.847 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.049 Avg. RF = 0.847 RSD = 7.238 RSE = 7.238
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

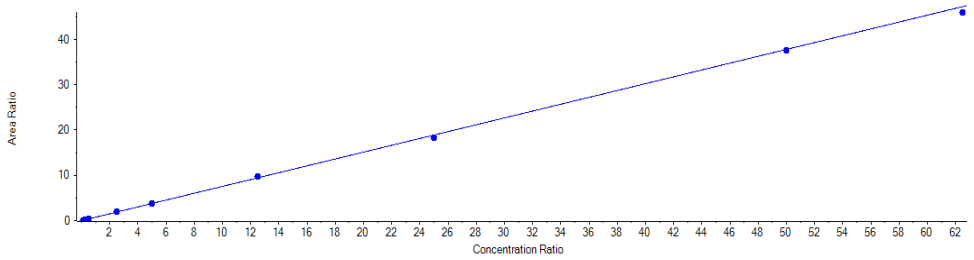
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFDoA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	4.65	312100	24385	0.103	103.3	0.977	357	True	0.91
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.65	322700	44569	0.183	91.3	0.863	651	True	1.10
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.65	329000	124129	0.499	99.8	0.943	1779	True	0.94
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.65	307100	635053	2.736	109.4	1.034	9035	True	0.99
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.65	339900	1285277	5.002	100.1	0.945	14388	True	1.25
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.64	300000	2898158	12.778	102.2	0.966	19055	True	1.06
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.64	313900	5751338	24.239	97.0	0.916	25360	True	1.23
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.66	301000	11328963	49.791	99.6	0.941	51154	True	1.12
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.65	305900	14057412	60.792	97.3	0.919	189932	True	1.12

Analyte Name: PFDoA
Regression Equation: Y = 0.945 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.038 Avg. RF = 0.945 RSD = 4.962 RSE = 4.962
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

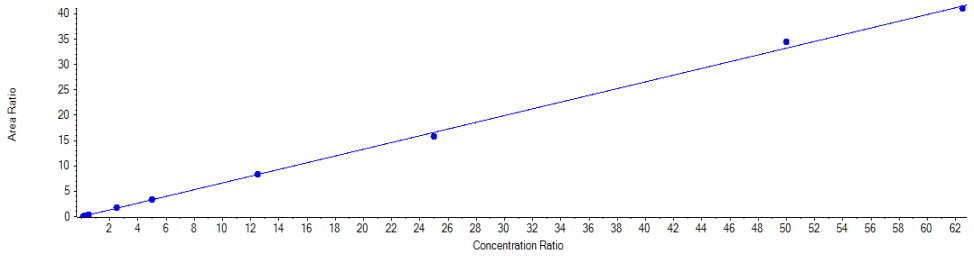
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFTrDA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	5.03	312100	19883	0.096	95.9	0.796	369	True	0.97
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	5.02	322700	40928	0.191	95.5	0.793	806	True	1.17
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	5.04	329000	107187	0.491	98.1	0.814	1986	True	1.00
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	5.03	307100	565040	2.771	110.8	0.920	10830	True	1.15
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	5.03	339900	1143113	5.064	101.3	0.841	21144	True	1.30
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	5.02	300000	2502695	12.561	100.5	0.834	11020	True	0.88
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	5.02	313900	4971702	23.851	95.4	0.792	26308	True	0.90
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	5.04	301000	10358401	51.821	103.6	0.860	35069	True	1.08
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	5.03	305900	12552333	61.790	98.9	0.821	24769	True	1.16

Analyte Name: PFTrDA
Regression Equation: Y = 0.830 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.033 Avg. RF = 0.830 RSD = 4.944 RSE = 4.944
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

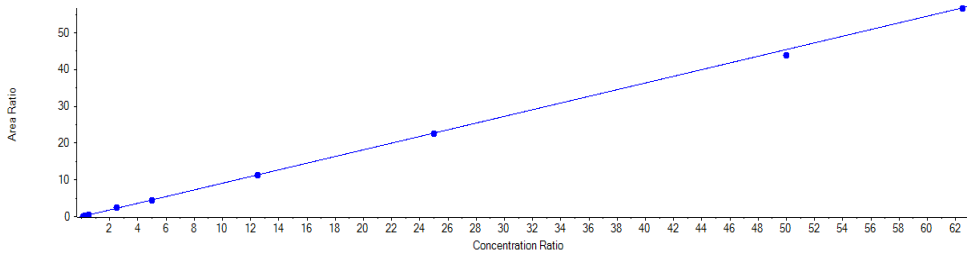
Alpha Analytical Inc.
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFTeDA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	5.39	200800	16734	0.092	91.7	1.042	447	True	0.82
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	5.40	209300	39104	0.205	102.7	1.168	1118	True	1.08
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	5.40	208500	97120	0.512	102.5	1.165	2732	True	1.25
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	5.40	195400	482581	2.717	108.7	1.235	3421	True	1.11
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	5.40	227900	1015779	4.903	98.1	1.115	9919	True	1.01
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	5.39	185600	2116245	12.538	100.3	1.140	7482	True	0.85
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	5.39	197400	4474053	24.931	99.7	1.133	13495	True	1.25
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	5.41	209000	9185109	48.341	96.7	1.099	12757	True	0.84
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	5.40	201100	11389632	62.294	99.7	1.133	11542	True	0.97

Analyte Name: PFTeDA
Regression Equation: Y = 1.136 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.042 Avg. RF = 1.136 RSD = 4.655 RSE = 4.655
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

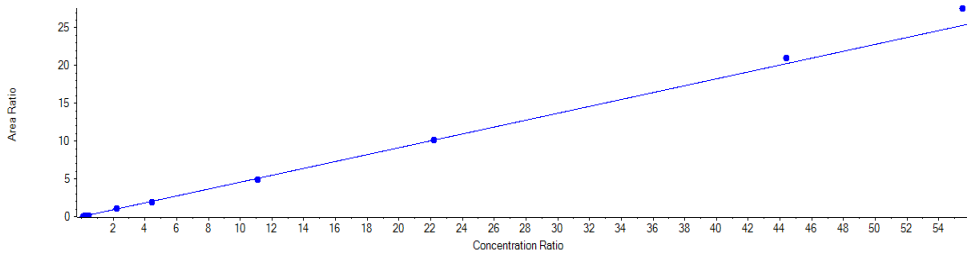
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Last Altered: 3/4/2025 6:49:27 AM
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFBS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.92	358800	15126	0.092	103.9	1.104	184	True	1.14
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.92	374600	28184	0.165	92.7	0.985	338	True	0.95
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.93	400500	71222	0.390	87.8	0.933	807	True	1.09
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.92	337300	375073	2.439	109.9	1.167	2212	True	1.37
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.93	383300	743303	4.253	95.8	1.018	2670	True	1.12
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.92	337100	1652384	10.752	96.9	1.029	5427	True	0.99
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.92	336600	3430735	22.354	100.7	1.070	6765	True	0.98
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.93	307600	6442266	45.942	103.5	1.099	5415	True	1.11
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	1.92	288900	7957403	60.419	108.9	1.156	6795	True	0.95

Analyte Name: PFBS
Regression Equation: Y = 1.062 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.034 Avg. RF = 1.062 RSD = 7.351 RSE = 7.351
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

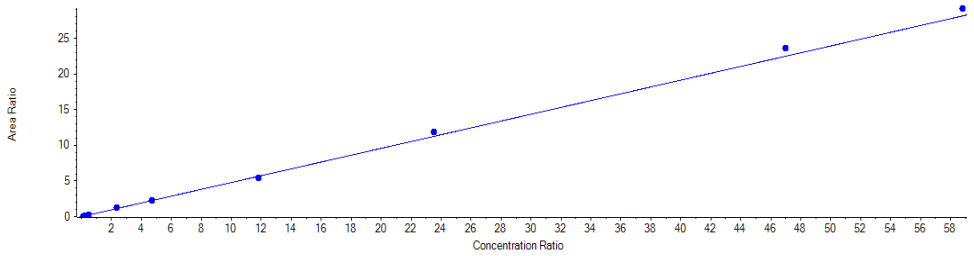
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFPeS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.56	337200	12916	0.080	85.2	0.966	141	True	1.35
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.56	326800	28269	0.181	96.2	1.090	310	True	1.03
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.57	318800	71445	0.468	99.6	1.130	808	True	1.04
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.56	305000	376998	2.583	109.9	1.247	2993	True	1.07
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.57	341500	763378	4.671	99.4	1.127	4626	True	1.25
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.56	310400	1674196	11.271	95.5	1.083	5108	True	0.99
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.56	294900	3500458	24.807	105.6	1.197	7261	True	1.00
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	2.57	300900	7099834	49.314	104.9	1.190	7981	True	1.19
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.56	287300	8382252	60.984	103.7	1.176	88545	True	1.12

Analyte Name: PFPeS
Regression Equation: Y = 1.134 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.035 Avg. RF = 1.134 RSD = 7.273 RSE = 7.273
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

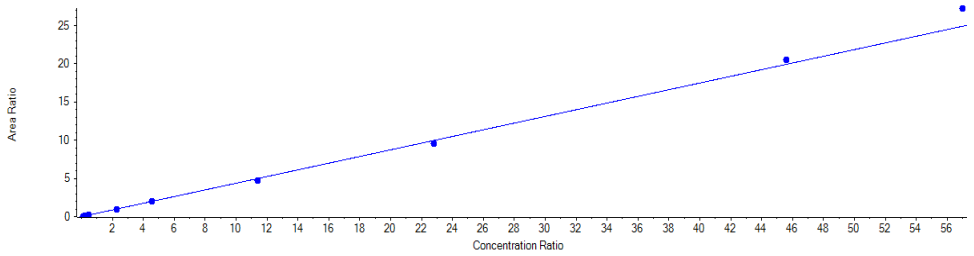
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFHxS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	3.09	337200	14015	0.095	104.5	1.082	142	True	0.22
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	3.09	326800	26461	0.185	101.8	1.054	281	True	0.20
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.10	318800	58304	0.418	91.8	0.950	541	True	0.24
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	3.09	305000	305154	2.290	100.4	1.040	971	True	0.18
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	3.10	341500	666792	4.468	98.0	1.015	1292	True	0.20
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	3.09	310400	1468749	10.827	95.0	0.984	1220	True	0.18
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	3.09	294900	2820486	21.887	96.0	0.994	1172	True	0.18
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.10	300900	6188572	47.066	103.2	1.069	1374	True	0.19
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	3.10	287300	7822638	62.317	109.3	1.132	1154	True	0.20

Analyte Name: PFHxS
Regression Equation: Y = 1.036 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.024 Avg. RF = 1.036 RSD = 5.411 RSE = 5.411
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

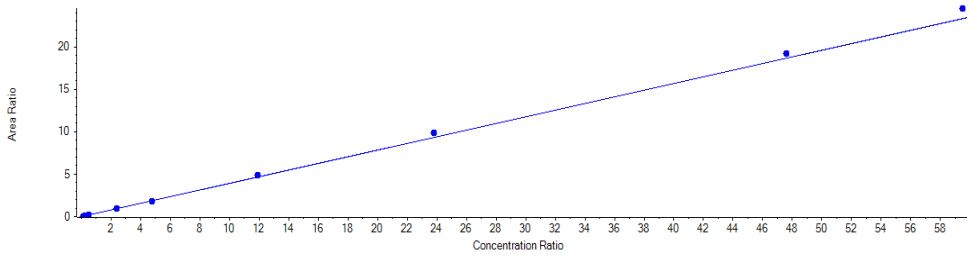
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFHpS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	3.56	369000	12571	0.087	91.5	0.861	133	True	1.13
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	3.57	373100	25660	0.176	92.4	0.869	276	True	1.18
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.57	351800	63766	0.463	97.2	0.914	682	True	1.33
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	3.56	335500	319049	2.426	101.9	0.959	3475	True	0.93
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	3.57	376000	684345	4.644	97.6	0.918	7425	True	0.92
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	3.56	319000	1564690	12.517	105.2	0.989	6243	True	1.05
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	3.56	317900	3139370	25.199	105.9	0.996	7089	True	1.13
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.58	334800	6448557	49.150	103.3	0.971	12200	True	0.85
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	3.57	318900	7818754	62.558	105.1	0.989	9181	True	0.89

Analyte Name: PFHpS
Regression Equation: Y = 0.941 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.022 Avg. RF = 0.941 RSD = 5.551 RSE = 5.551
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

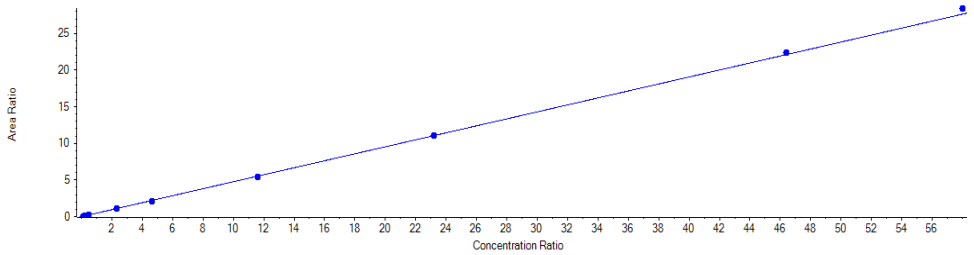
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFOS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	4.00	369000	18519	0.105	113.2	1.295	84	True	0.16
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.00	373100	31827	0.179	96.2	1.101	251	True	0.14
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.01	351800	74213	0.443	95.4	1.091	292	True	0.16
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.00	335500	364503	2.279	98.2	1.124	531	True	0.17
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.01	376000	789631	4.406	95.0	1.086	525	True	0.14
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.00	319000	1724874	11.344	97.8	1.119	593	True	0.15
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.00	317900	3530703	23.299	100.4	1.149	630	True	0.16
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.01	334800	7481587	46.880	101.0	1.156	633	True	0.17
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.01	318900	9063220	59.616	102.8	1.176	599	True	0.17

Analyte Name: PFOS
Regression Equation: Y = 1.144 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.027 Avg. RF = 1.144 RSD = 5.622 RSE = 5.622
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

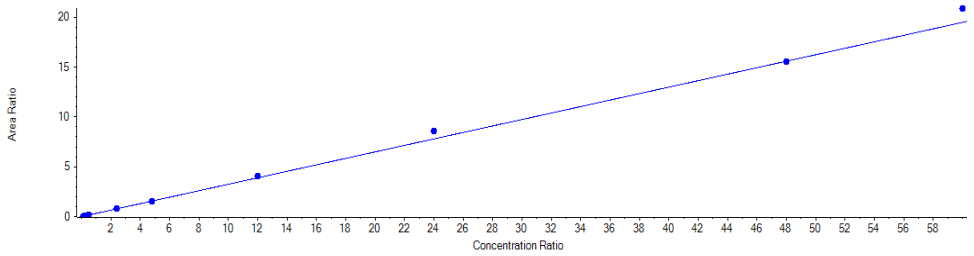
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFNS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	4.41	369000	9312	0.078	81.0	0.631	121	True	0.84
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.41	373100	21727	0.179	93.5	0.728	278	True	1.21
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.42	351800	55507	0.486	101.3	0.789	732	True	0.94
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.41	335500	279311	2.565	106.9	0.832	3270	True	1.06
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.42	376000	568907	4.662	97.1	0.757	7426	True	0.84
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.41	319000	1286807	12.429	103.6	0.807	7699	True	1.23
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.41	317900	2718126	26.345	109.8	0.855	6700	True	0.91
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.43	334800	5205066	47.903	99.8	0.777	64649	True	1.09
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.42	318900	6654625	64.290	107.2	0.835	7089	True	1.13

Analyte Name: PFNS
Regression Equation: Y = 0.779 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.029 Avg. RF = 0.779 RSD = 8.806 RSE = 8.806
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

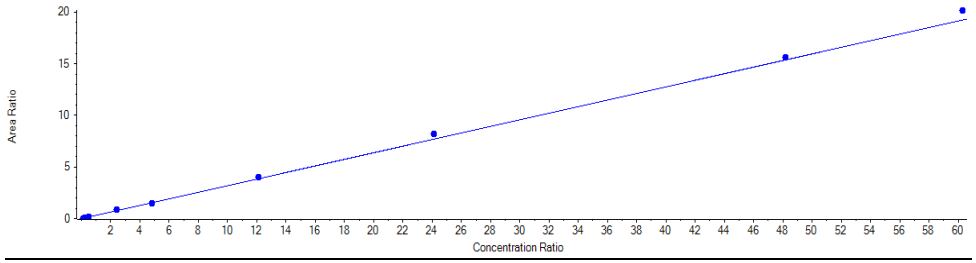
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFDS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	4.81	369000	10126	0.086	89.7	0.686	175	True	0.82
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.81	373100	19910	0.167	86.7	0.664	378	True	0.92
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.82	351800	54400	0.485	100.6	0.770	969	True	1.12
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.81	335500	281780	2.633	109.3	0.836	5121	True	0.88
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.82	376000	567545	4.734	98.2	0.752	5534	True	1.08
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.80	319000	1268050	12.467	103.0	0.789	23159	True	0.93
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.80	317900	2594683	25.598	106.2	0.813	46801	True	1.05
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.82	334800	5221579	48.915	101.5	0.777	92232	True	0.95
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.81	318900	6425873	63.191	104.8	0.802	111590	True	0.96

Analyte Name: PFDS
Regression Equation: Y = 0.765 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.024 Avg. RF = 0.765 RSD = 7.468 RSE = 7.468
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

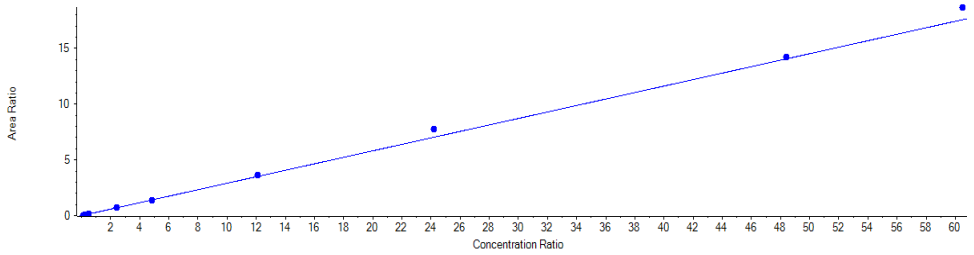
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFDoS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	5.55	369000	8920	0.083	85.8	0.598	311	True	0.78
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	5.55	373100	19036	0.176	90.5	0.631	637	True	1.17
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	5.56	351800	48558	0.475	98.2	0.684	1628	True	0.72
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	5.55	335500	250510	2.570	106.2	0.740	4771	True	1.25
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	5.56	376000	520719	4.767	98.5	0.687	7819	True	1.00
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	5.55	319000	1153280	12.445	102.9	0.717	16086	True	1.00
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	5.55	317900	2467934	26.723	110.4	0.770	34441	True	0.89
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	5.56	334800	4770330	49.048	101.3	0.707	25340	True	0.88
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	5.56	318900	5954134	64.265	106.2	0.741	22934	True	0.96

Analyte Name: PFDoS
Regression Equation: Y = 0.697 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.023 Avg. RF = 0.697 RSD = 7.850 RSE = 7.850
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

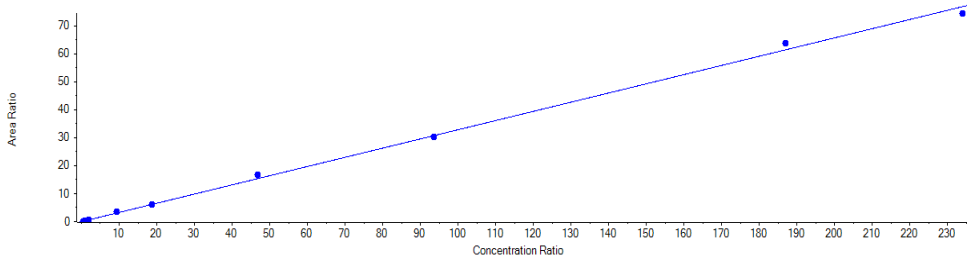
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 4:2FTS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.71	101000	10859	0.328	87.3	1.344	210	True	0.98
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.71	102700	24433	0.725	96.7	1.488	487	True	1.15
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.72	102800	60344	1.788	95.6	1.472	1174	True	1.21
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.71	97210	331902	10.404	111.0	1.709	6496	True	1.00
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.72	106800	667760	19.061	101.9	1.569	13346	True	1.20
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.71	93290	1557181	50.865	108.5	1.669	30838	True	1.16
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.71	105200	3184094	92.227	98.4	1.515	62748	True	1.13
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.73	104700	6660449	193.838	103.7	1.595	7948	True	1.11
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	1.72	110900	8244658	226.547	96.8	1.490	160505	True	1.06

Analyte Name: 4:2FTS
Regression Equation: Y = 1.539 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.024 Avg. RF = 1.539 RSD = 7.186 RSE = 7.186
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

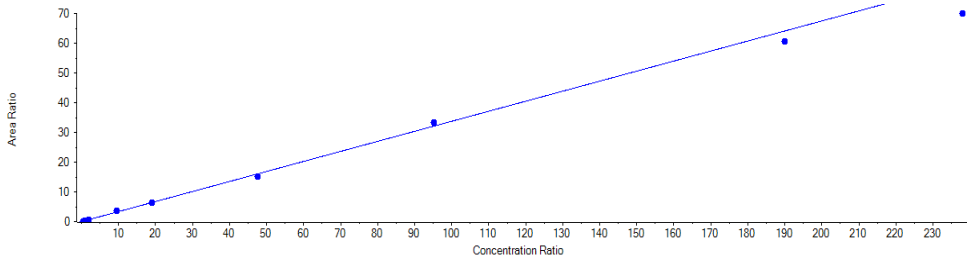
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 6:2FTS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.80	84760	10691	0.373	98.2	1.580	97	True	1.23
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.80	87050	23022	0.783	102.8	1.654	286	True	1.29
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.81	84550	56508	1.978	104.1	1.674	641	True	1.13
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.80	80790	303189	11.105	116.8	1.878	3053	True	1.20
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.81	98260	613808	18.486	97.3	1.565	7020	True	0.89
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.80	86620	1324969	45.265	95.1	1.530	5350	True	1.16
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.80	87390	2925605	99.064	104.2	1.676	6292	True	1.09
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	2.81	98170	5948441	179.300	94.4	1.518	69345	True	1.33
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.81	101700	7131070	207.429	87.2	1.402	7253	True	1.21

Analyte Name: 6:2FTS
Regression Equation: Y = 1.609 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.028 Avg. RF = 1.609 RSD = 8.326 RSE = 8.326
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

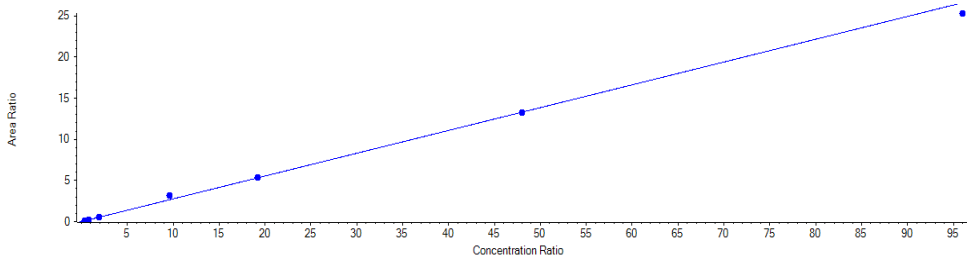
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 8:2FTS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	3.67	73780	7732	0.378	98.4	1.310	103	True	1.12
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	3.67	95340	16762	0.634	82.6	1.099	185	True	1.40
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.68	90240	49749	1.989	103.6	1.378	559	True	0.88
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	3.67	76510	245593	11.579	120.6	1.605	2776	True	1.23
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	3.67	95060	505170	19.170	99.9	1.329	5674	True	1.39
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	3.66	81900	1088274	47.930	99.9	1.329	6069	True	0.92
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	3.66	93680	2370696	91.288	95.1	1.265	7718	True	1.01
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	N/A	109700	N/A	N/A	N/A	N/A	N/A	False	N/A
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	N/A	103400	N/A	N/A	N/A	N/A	N/A	False	N/A

Analyte Name: 8:2FTS
Regression Equation: Y = 1.331 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.031 Avg. RF = 1.331 RSD = 11.312 RSE = 11.312
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

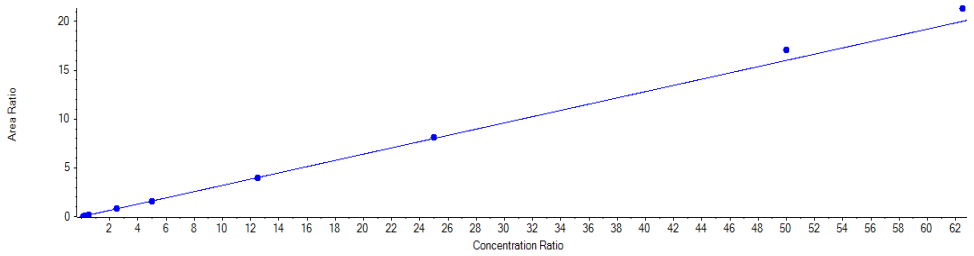
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFOSA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	5.23	566100	17024	0.094	93.9	0.752	270	True	0.19
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	5.23	603800	36171	0.187	93.5	0.749	391	True	0.17
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	5.25	604500	92361	0.477	95.4	0.764	381	True	0.19
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	5.24	547500	453787	2.588	103.5	0.829	370	True	0.17
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	5.24	606000	956494	4.928	98.6	0.789	352	True	0.18
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	5.23	534000	2139399	12.508	100.1	0.801	353	True	0.16
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	5.23	553200	4520171	25.508	102.0	0.817	385	True	0.15
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	5.25	560100	9546074	53.215	106.4	0.852	362	True	0.17
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	5.24	543900	11605870	66.620	106.6	0.854	365	True	0.19

Analyte Name: PFOSA
Regression Equation: Y = 0.801 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.016 Avg. RF = 0.801 RSD = 5.046 RSE = 5.046
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

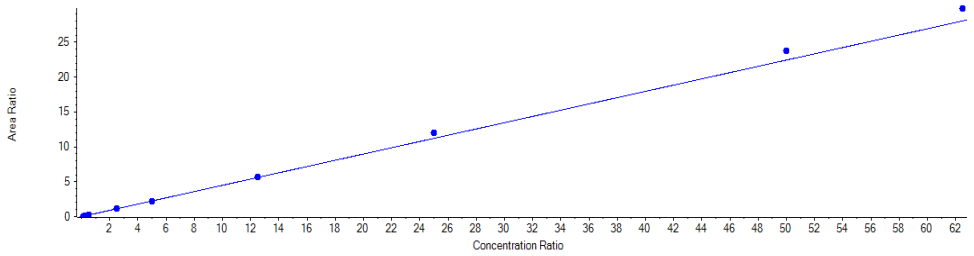
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: NMeFOSA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	5.97	101000	4334	0.096	95.7	1.073	101	True	0.21
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	5.97	110700	8760	0.177	88.3	0.989	141	True	0.19
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	5.98	105900	21343	0.450	89.9	1.008	210	True	0.18
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	5.98	98730	116243	2.626	105.0	1.177	465	True	0.19
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	5.98	112400	250084	4.963	99.3	1.113	336	True	0.16
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	5.97	94720	541857	12.759	102.1	1.144	355	True	0.16
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	5.97	96290	1158854	26.842	107.4	1.203	330	True	0.17
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	5.99	102600	2438874	52.996	106.0	1.188	333	True	0.16
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	5.98	100800	3004999	66.481	106.4	1.192	342	True	0.17

Analyte Name: NMeFOSA
Regression Equation: Y = 1.121 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.032 Avg. RF = 1.121 RSD = 7.234 RSE = 7.234
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

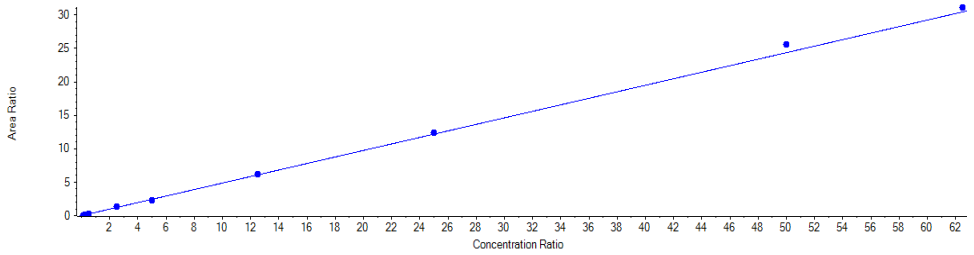
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: NEtFOSA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	6.27	92410	4656	0.103	103.4	1.260	130	True	0.14
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	6.27	99230	8995	0.186	93.0	1.133	230	True	0.17
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	6.28	95910	21494	0.460	92.0	1.120	403	True	0.17
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	6.27	87780	115462	2.699	108.0	1.315	671	True	0.18
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	6.27	102800	235607	4.701	94.0	1.145	685	True	0.17
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	6.27	86790	532096	12.580	100.6	1.226	737	True	0.19
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	6.27	89690	1109116	25.375	101.5	1.237	680	True	0.19
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	6.28	91350	2344301	52.660	105.3	1.283	702	True	0.16
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	6.28	94060	2927446	63.867	102.2	1.245	707	True	0.16

Analyte Name: NEtFOSA
Regression Equation: Y = 1.218 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.028 Avg. RF = 1.218 RSD = 5.699 RSE = 5.699
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

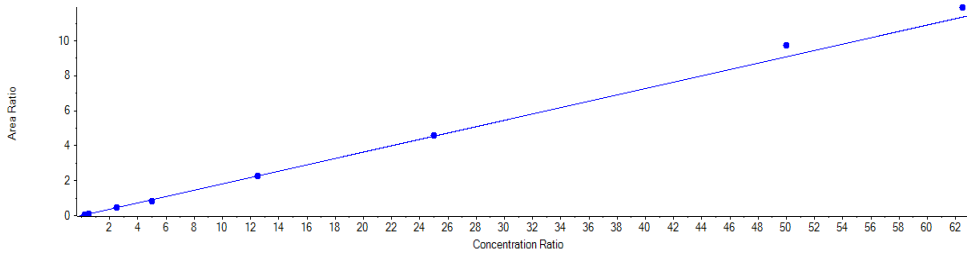
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: NMeFOSAA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	False	N/A
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	3.98	146500	4800	0.180	90.1	0.819	37	True	0.29
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.99	149200	13391	0.494	98.7	0.898	91	True	0.24
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	3.98	132600	63717	2.644	105.8	0.961	429	True	0.31
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	3.99	173200	145585	4.623	92.5	0.840	709	True	0.36
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	3.97	128000	291267	12.512	100.1	0.910	720	True	0.35
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	3.98	136000	622923	25.201	100.8	0.916	824	True	0.31
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.99	132300	1289199	53.596	107.2	0.974	665	True	0.31
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	3.98	130500	1555100	65.527	104.8	0.953	652	True	0.31

Analyte Name: NMeFOSAA
Regression Equation: Y = 0.909 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.011 Avg. RF = 0.909 RSD = 6.153 RSE = 6.153
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

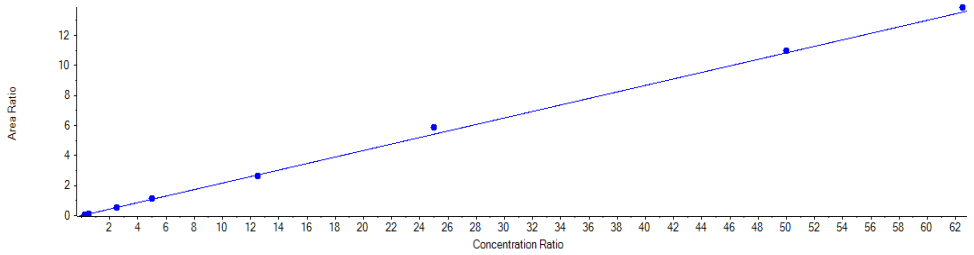
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: NEtFOSAA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	False	N/A
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.19	117500	4868	0.191	95.5	1.035	41	True	0.13
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.20	114500	11391	0.459	91.8	0.995	98	True	1.02
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.19	108900	59240	2.509	100.4	1.088	462	True	0.17
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.20	117300	132430	5.207	104.1	1.129	463	True	0.19
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.19	105300	275571	12.075	96.6	1.047	668	True	0.30
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.19	108800	637334	27.008	108.0	1.171	695	True	1.02
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.20	116100	1274167	50.631	101.3	1.098	605	True	1.14
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.20	113200	1569102	63.940	102.3	1.109	530	True	0.28

Analyte Name: NEtFOSAA
Regression Equation: Y = 1.084 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.011 Avg. RF = 1.084 RSD = 5.182 RSE = 5.182
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

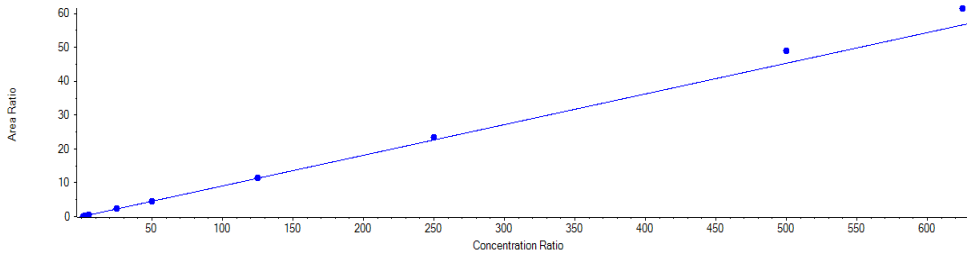
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: NMeFOSE

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	5.84	715500	60101	0.927	92.7	2.100	173	True	0.19
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	5.84	779200	127504	1.806	90.3	2.045	218	True	0.15
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	5.85	769500	320914	4.602	92.1	2.085	208	True	0.16
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	5.84	731200	1728162	26.082	104.3	2.364	245	True	0.17
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	5.85	811400	3643445	49.553	99.1	2.245	247	True	0.19
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	5.84	692900	7981840	127.131	101.7	2.304	242	True	0.19
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	5.84	709600	16569436	257.678	103.1	2.335	223	True	0.15
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	5.85	720700	35316875	540.772	108.2	2.450	235	True	0.18
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	5.85	710600	43701785	678.698	108.6	2.460	226	True	0.20

Analyte Name: NMeFOSE
Regression Equation: Y = 2.265 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.006 Avg. RF = 2.265 RSD = 6.919 RSE = 6.919
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

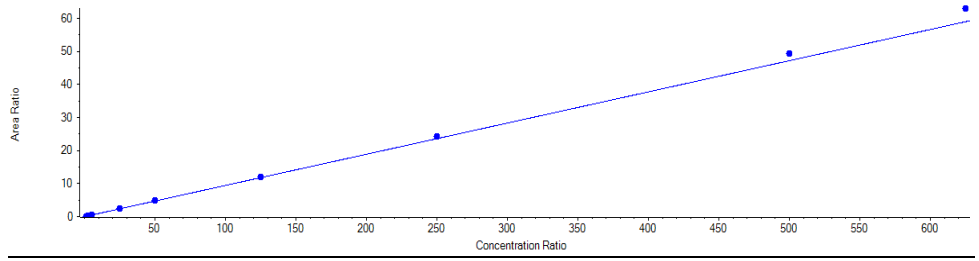
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: NEtFOSE

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	6.14	1006000	86403	0.909	90.9	2.147	274	True	0.16
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	6.14	1057000	177295	1.776	88.8	2.097	344	True	0.17
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	6.15	1054000	476061	4.780	95.6	2.258	430	True	0.14
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	6.14	973200	2460257	26.761	107.1	2.528	425	True	0.15
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	6.14	1081000	5175067	50.657	101.3	2.393	450	True	0.17
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	6.13	927300	11142098	127.199	101.8	2.403	415	True	0.16
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	6.14	939600	22852970	257.471	103.0	2.432	412	True	0.16
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	6.15	946100	46839270	524.078	104.8	2.475	380	True	0.17
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	6.14	936800	59054522	667.355	106.8	2.522	376	True	0.17

Analyte Name: NEtFOSE
Regression Equation: Y = 2.362 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.006 Avg. RF = 2.362 RSD = 6.710 RSE = 6.710
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

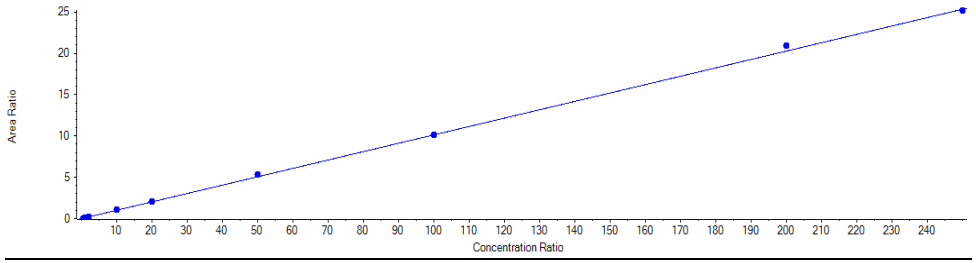
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: HFPO-DA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.13	1495000	54738	0.361	90.4	0.916	683	True	0.97
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.13	1527000	116681	0.754	94.3	0.955	1450	True	1.23
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.14	1484000	301471	2.005	100.2	1.016	3696	True	0.91
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.13	1484000	1572905	10.457	104.6	1.060	19174	True	1.29
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.14	1621000	3399227	20.693	103.5	1.049	4674	True	0.88
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.13	1344000	7141362	52.425	104.9	1.063	83225	True	1.30
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.13	1378000	13910898	99.610	99.6	1.009	161897	True	1.32
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	2.14	1342000	28089338	206.507	103.3	1.046	328304	True	1.33
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.14	1368000	34456419	248.491	99.4	1.007	34936	True	1.25

Analyte Name: HFPO-DA
Regression Equation: Y = 1.013 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.005 Avg. RF = 1.013 RSD = 4.920 RSE = 4.920
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

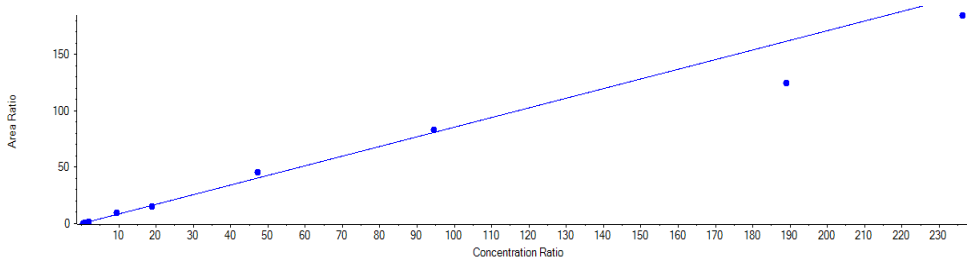
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: ADONA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.68	334900	114160	0.398	105.4	2.255	1402	True	1.19
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.68	317100	233906	0.862	114.0	2.439	1908	True	0.89
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.69	370900	524770	1.653	87.5	1.872	5597	True	1.28
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.68	318100	2939003	10.795	114.2	2.444	34049	True	0.88
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.68	383300	5884811	17.937	94.9	2.031	68492	True	1.09
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.68	284400	12920958	53.080	112.3	2.404	114841	True	0.87
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.68	310700	25930873	97.522	103.2	2.208	130003	True	0.87
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	2.69	335400	41854908	145.788	77.1	1.650	138565	True	0.97
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.68	318800	58871745	215.753	91.3	1.954	21919	True	1.01

Analyte Name: ADONA
Regression Equation: Y = 2.140 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.112 Avg. RF = 2.140 RSD = 13.092 RSE = 13.092
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

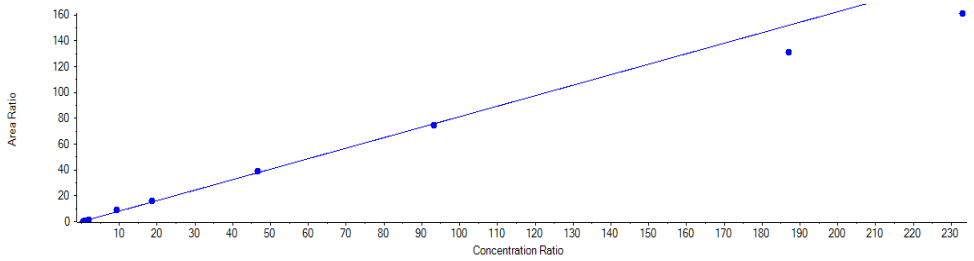
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 9Cl-PF3ONS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	4.28	369000	105849	0.353	94.7	1.846	1210	True	0.95
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.29	373100	226488	0.747	100.2	1.953	2572	True	0.79
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.29	351800	588976	2.061	110.2	2.149	6890	True	0.88
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.28	335500	2946967	10.811	115.9	2.259	7228	True	1.08
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.29	376000	6032741	19.751	105.6	2.059	10343	True	1.26
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.28	319000	12541430	48.400	103.6	2.021	9178	True	1.18
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.28	317900	23659955	91.623	98.2	1.915	7680	True	0.92
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.30	334800	43985831	161.739	86.5	1.686	6379	True	1.05
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.29	318900	51374727	198.306	85.1	1.659	6318	True	1.02

Analyte Name: 9Cl-PF3ONS
Regression Equation: Y = 1.950 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.083 Avg. RF = 1.950 RSD = 10.228 RSE = 10.228
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

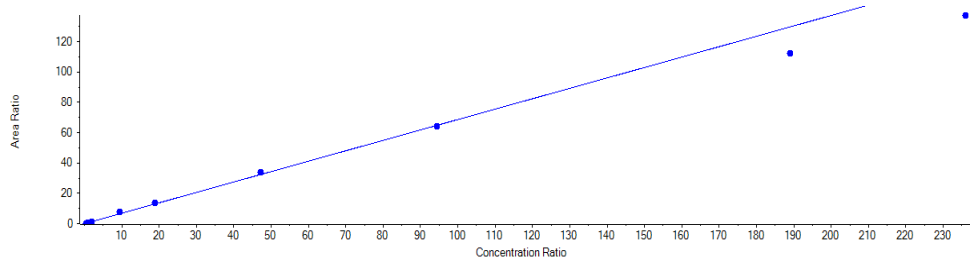
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 11Cl-PF3OUdS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	5.07	369000	91599	0.361	95.9	1.580	2098	True	1.00
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	5.07	373100	189028	0.738	97.8	1.613	3936	True	1.25
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	5.08	351800	494647	2.047	108.3	1.786	3649	True	0.95
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	5.07	335500	2566254	11.133	118.1	1.946	8576	True	1.27
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	5.08	376000	5149429	19.937	105.5	1.739	9497	True	0.79
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	5.07	319000	10793343	49.258	104.4	1.721	7749	True	0.98
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	5.07	317900	20368386	93.275	98.9	1.631	6638	True	0.99
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	5.08	334800	37585090	163.432	86.5	1.426	790591	True	1.00
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	5.08	318900	43809540	199.975	84.7	1.397	894638	True	1.19

Analyte Name: 11Cl-PF3OUdS
Regression Equation: Y = 1.649 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.072 Avg. RF = 1.649 RSD = 10.507 RSE = 10.507
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

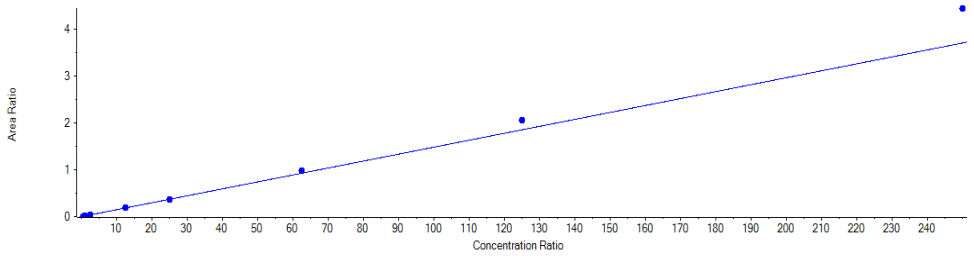
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 3:3FTCA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.56	768100	5496	0.483	96.6	0.072	51	True	1.32
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.56	800800	8501	0.716	71.6	0.053	79	True	1.76
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.57	779200	26619	2.305	92.2	0.068	190	True	2.09
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.56	749300	143001	12.878	103.0	0.076	1126	True	1.39
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.57	815400	303513	25.115	100.5	0.074	1847	True	1.32
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.56	686600	667027	65.547	104.9	0.078	2120	True	1.59
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.57	685900	1415043	139.211	111.4	0.083	3071	True	1.41
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.58	660500	2933501	299.691	119.9	0.089	3258	True	1.25
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	N/A	629300	N/A	N/A	N/A	N/A	N/A	False	N/A

Analyte Name: 3:3FTCA
Regression Equation: Y = 0.074 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.002 Avg. RF = 0.074 RSD = 14.318 RSE = 14.318
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

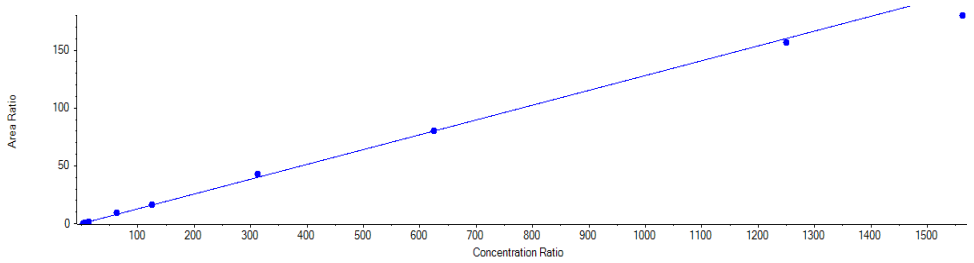
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 5:3FTCA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	3.03	341100	101733	2.329	93.2	0.298	1108	True	1.20
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	3.03	402500	229481	4.451	89.0	0.285	2534	True	1.01
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.04	359800	610827	13.255	106.0	0.340	6860	True	1.37
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	3.03	337900	3069698	70.916	113.5	0.363	16792	True	0.96
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	3.04	373200	6094534	127.497	102.0	0.327	17755	True	1.19
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	3.03	307600	13302452	337.637	108.0	0.346	118744	True	0.98
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	3.03	319800	25694766	627.339	100.4	0.321	260744	True	0.98
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.04	307400	48209215	1224.387	98.0	0.314	30155	True	1.07
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	3.04	333700	60070838	1405.496	90.0	0.288	30242	True	1.16

Analyte Name: 5:3FTCA
Regression Equation: Y = 0.320 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.011 Avg. RF = 0.320 RSD = 8.361 RSE = 8.361
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

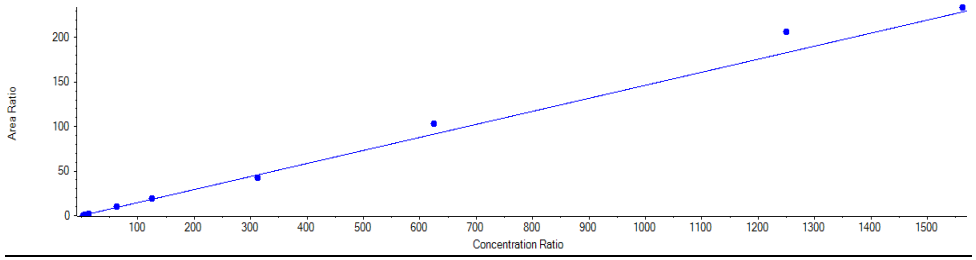
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 7:3FTCA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	4.06	243800	83626	2.343	93.7	0.171	1120	True	1.07
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.06	282300	175038	4.235	84.7	0.155	2130	True	1.05
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.07	273600	453957	11.334	90.7	0.166	5803	True	1.18
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.06	251700	2437617	66.149	105.8	0.194	27616	True	1.31
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.07	267500	5129873	130.975	104.8	0.192	25114	True	0.98
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.05	269400	11466526	290.703	93.0	0.170	147852	True	1.06
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.06	239900	24676376	702.540	112.4	0.206	30005	True	1.26
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.07	234300	48312405	1408.433	112.7	0.206	36510	True	1.30
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.06	246800	57706533	1596.892	102.2	0.187	22433	True	1.36

Analyte Name: 7:3FTCA
Regression Equation: Y = 0.183 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.015 Avg. RF = 0.183 RSD = 9.911 RSE = 9.911
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

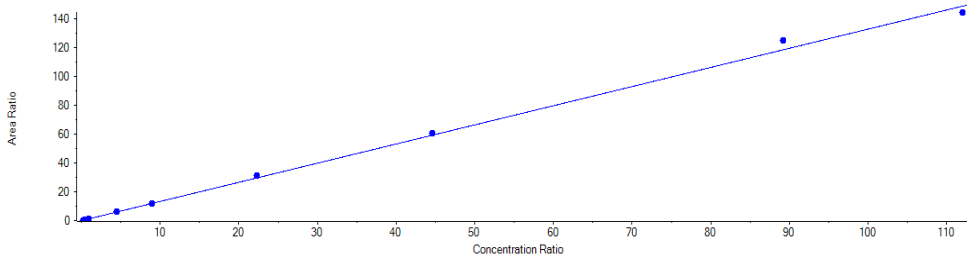
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFEESA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.22	341100	77148	0.170	95.5	3.177	889	True	1.06
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.22	402500	156562	0.292	81.9	2.724	1749	True	1.34
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.23	359800	452001	0.944	105.8	3.521	5182	True	1.00
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.22	337900	2143172	4.764	106.8	3.555	7787	True	0.88
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.23	373200	4413745	8.885	99.6	3.315	50698	True	0.94
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.22	307600	9656667	23.584	105.8	3.520	8576	True	1.37
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.22	319800	19431116	45.649	102.4	3.406	9069	True	1.37
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	2.24	307400	38438538	93.936	105.3	3.505	420262	True	1.35
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.23	333700	48272608	108.678	97.0	3.229	8045	True	1.32

Analyte Name: PFEESA
Regression Equation: Y = 3.328 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.106 Avg. RF = 3.328 RSD = 7.953 RSE = 7.953
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

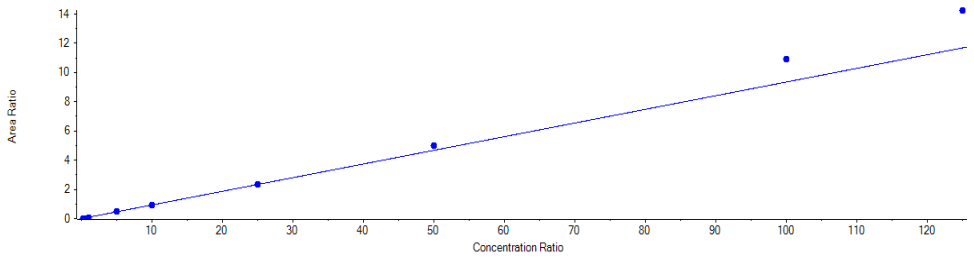
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFMPA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	0.75	1783000	28899	0.173	86.7	0.810	1475	True	1.44
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	0.75	1947000	59828	0.329	82.2	0.768	2612	True	1.19
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	0.76	1892000	154033	0.871	87.1	0.814	3765	True	1.32
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	0.75	1734000	834661	5.149	103.0	0.963	9747	True	1.53
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	0.76	1893000	1710204	9.664	96.6	0.903	11270	True	1.30
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	0.75	1539000	3563990	24.775	99.1	0.926	25560	True	1.16
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	0.75	1447000	7200947	53.220	106.4	0.995	30762	True	1.33
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	0.76	1281000	14008445	117.007	117.0	1.094	26984	True	1.01
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	0.76	1226000	17466472	152.354	121.9	1.139	30658	True	1.45

Analyte Name: PFMPA
Regression Equation: Y = 0.935 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.013 Avg. RF = 0.935 RSD = 13.658 RSE = 13.658
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

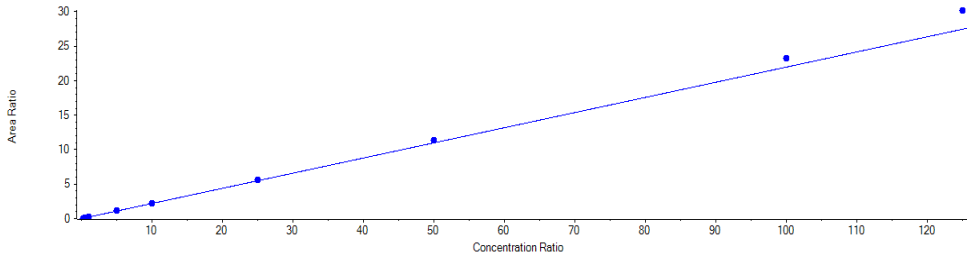
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFMBA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.44	768100	30422	0.180	90.2	0.990	864	True	1.26
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.44	800800	61803	0.351	87.8	0.965	1900	True	1.29
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.45	779200	168417	0.984	98.4	1.081	4957	True	1.10
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.44	749300	850980	5.170	103.4	1.136	24502	True	1.32
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.45	815400	1781362	9.944	99.4	1.092	24783	True	1.25
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.44	686600	3833878	25.416	101.7	1.117	110252	True	1.21
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.44	685900	7792939	51.721	103.4	1.136	41278	True	1.23
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.45	660500	15351804	105.806	105.8	1.162	47523	True	1.36
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	1.45	629300	18988827	137.357	109.9	1.207	38465	True	1.13

Analyte Name: PFMBA
Regression Equation: Y = 1.098 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.016 Avg. RF = 1.098 RSD = 7.122 RSE = 7.122
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

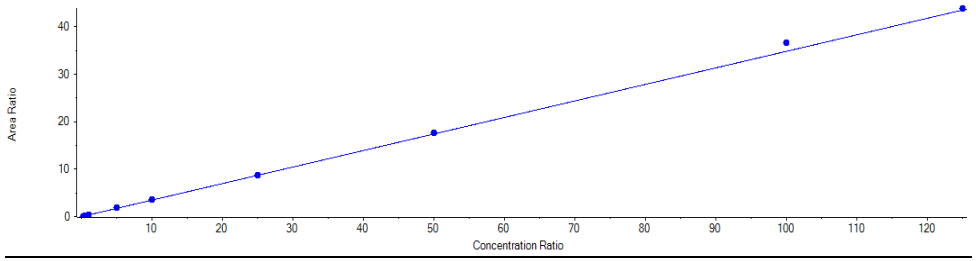
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Last Altered: 3/4/2025 6:49:27 AM
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: NFDHA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.84	341100	23090	0.194	97.1	0.846	362	True	1.30
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.84	402500	47725	0.340	85.1	0.741	723	True	1.10
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.85	359800	121871	0.972	97.2	0.847	1837	True	0.86
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.84	337900	645647	5.483	109.7	0.955	4607	True	1.03
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.85	373200	1325671	10.195	102.0	0.888	6080	True	1.33
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.84	307600	2706957	25.257	101.0	0.880	4184	True	1.10
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.84	319800	5669052	50.880	101.8	0.886	82848	True	1.10
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.86	307400	11291899	105.423	105.4	0.918	164884	True	1.33
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	1.85	333700	14641873	125.933	100.8	0.878	214637	True	1.13

Analyte Name: NFDHA
Regression Equation: Y = 0.871 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.024 Avg. RF = 0.871 RSD = 6.800 RSE = 6.800
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

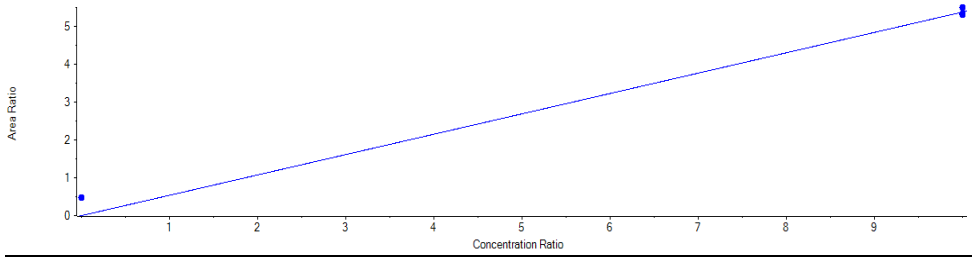
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: TDCA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.66	369000	2030223	10.224	102.2	1.321	9486	True	1.30
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	N/A	373100	N/A	N/A	N/A	N/A	N/A	True	N/A
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.68	351800	168518	0.890	N/A	N/A	1856	True	0.89
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	N/A	335500	N/A	N/A	N/A	N/A	N/A	True	N/A
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.67	376000	1993257	9.851	98.5	1.272	11730	True	1.15
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	N/A	319000	N/A	N/A	N/A	N/A	N/A	True	N/A
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	N/A	317900	N/A	N/A	N/A	N/A	N/A	True	N/A
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	N/A	334800	N/A	N/A	N/A	N/A	N/A	True	N/A
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.66	318900	1703275	9.925	99.3	1.282	6404	True	1.12

Analyte Name: TDCA
Regression Equation: Y = N/A x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = N/A Avg. RF = 1.292 RSD = 1.977 RSE = 0.000
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

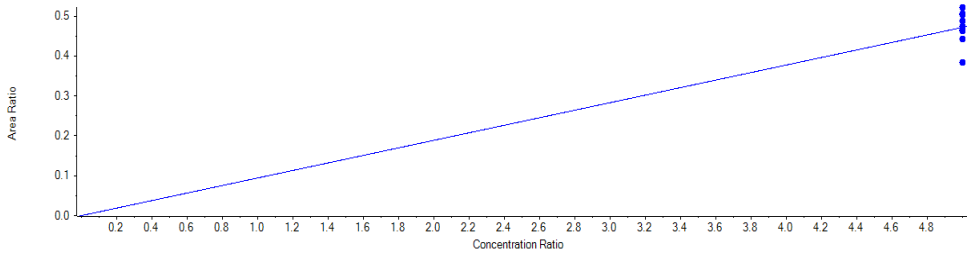
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 13C2D4-4:2FTS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.70	289500	137140	5.022	100.4	0.225	2747	True	1.20
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.70	277600	140273	5.357	107.1	0.240	2677	True	0.91
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.71	267600	118454	4.693	93.9	0.210	2278	True	0.97
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.70	291000	111521	4.063	81.3	0.182	2226	True	1.39
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.71	327300	151148	4.895	97.9	0.219	3000	True	1.01
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.70	268800	140144	5.528	110.6	0.247	2694	True	0.90
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.70	268400	124643	4.923	98.5	0.220	2464	True	0.91
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.72	253500	127883	5.347	106.9	0.239	2541	True	0.93
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	1.71	267200	130410	5.174	103.5	0.231	2491	True	0.86

Analyte Name: 13C2D4-4:2FTS
Regression Equation: Y = 0.224 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.008 Avg. RF = 0.224 RSD = 8.794 RSE = 0.000
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

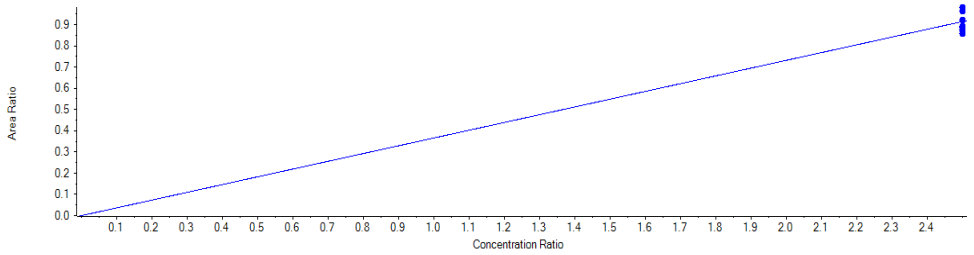
Alpha Analytical Inc.
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2
Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 13C2-PFOA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.98	363400	356521	2.681	107.2	0.981	4469	True	1.01
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.98	335400	328744	2.678	107.1	0.980	4003	True	0.91
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.99	349400	307805	2.407	96.3	0.881	3728	True	1.25
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.98	363000	323036	2.432	97.3	0.890	4183	True	0.84
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.99	400500	368927	2.517	100.7	0.921	4722	True	0.94
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.98	374200	321115	2.345	93.8	0.858	3834	True	1.32
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.98	325000	288456	2.425	97.0	0.888	3448	True	1.30
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.00	340600	328767	2.637	105.5	0.965	3757	True	0.85
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.99	383200	333473	2.378	95.1	0.870	4092	True	0.91

Analyte Name: 13C2-PFOA
Regression Equation: Y = 0.915 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.019 Avg. RF = 0.915 RSD = 5.320 RSE = 0.000
Calibration type: Average RF



Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

Alpha Analytical Inc.
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2
Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Analyte	Expected Ratio	Lower Limt	Upper Limt	NIS Analyte	AVG. NIS Area
PFBA	N/A	N/A	N/A	13C3-PFBA	724677
PFPeA	N/A	N/A	N/A	13C2-PFHxA	405177
PFHxA	0.081	0.0405	0.1215	13C4-PFOA	359411
PFHpA	0.373	0.1865	0.5595	13C5-PFNA	257604
PFOA	0.424	0.212	0.636	13C2-PFDA	265799
PFNA	0.493	0.2465	0.7395	18O2-PFHxS	278984
PFDA	0.188	0.094	0.282	13C4-PFOS	288522
PFUnA	0.146	0.073	0.219	N/A	N/A
PFDoA	0.142	0.071	0.213	N/A	N/A
PFTrDA	0.152	0.076	0.228	N/A	N/A
PFTeDA	0.154	0.077	0.231	N/A	N/A
PFBS	0.374	0.187	0.561	N/A	N/A
PFPeS	0.314	0.157	0.471	N/A	N/A
PFHxS	0.306	0.153	0.459	N/A	N/A
PFHpS	0.316	0.158	0.474	N/A	N/A
PFOS	0.244	0.122	0.366	N/A	N/A
PFNS	0.294	0.147	0.441	N/A	N/A
PFDS	0.29	0.145	0.435	N/A	N/A
PFDoS	0.256	0.128	0.384	N/A	N/A
4:2FTS	0.65	0.325	0.975	N/A	N/A
6:2FTS	0.62	0.31	0.93	N/A	N/A
8:2FTS	0.676	0.338	1.014	N/A	N/A
PFOSA	0.026	0.013	0.039	N/A	N/A
NMeFOSA	1.377	0.6885	2.0655	N/A	N/A
NEtFOSA	1.292	0.646	1.938	N/A	N/A
NMeFOSAA	0.697	0.3485	1.0455	N/A	N/A
NEtFOSAA	0.557	0.2785	0.8355	N/A	N/A
NMeFOSE	N/A	N/A	N/A	N/A	N/A
NEtFOSE	N/A	N/A	N/A	N/A	N/A
HFPO-DA	0.501	0.2505	0.7515	N/A	N/A
ADONA	0.691	0.3455	1.0365	N/A	N/A
9Cl-PF3ONS	0.332	0.166	0.498	N/A	N/A
11Cl-PF3OUdS	0.322	0.161	0.483	N/A	N/A
3:3FTCA	1.01	0.505	1.515	N/A	N/A
5:3FTCA	1.017	0.5085	1.5255	N/A	N/A
7:3FTCA	1.343	0.6715	2.0145	N/A	N/A
PFEESA	0.081	0.0405	0.1215	N/A	N/A
PFMPA	N/A	N/A	N/A	N/A	N/A
PFMBA	N/A	N/A	N/A	N/A	N/A
NFDHA	0.681	0.3405	1.0215	N/A	N/A
TDCA	5.68	2.84	8.52	N/A	N/A

Initial Calibration Summary
Form 6
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512271
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Instrument ID	: LCMS09	Ical Ref	: ICAL22044
Calibration dates	: 03/03/25 14:41 03/03/25 15:53		

Initial Calibration Report

SCIEX OS Version 3.3.1.43

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Generated: 3/3/2025 3:16:24 PM

Method:	EPA-1633F
ICAL:	ICAL22044
Workgroup:	WG2035972
Date:	3/3/2025

Type	Name	IA1633FSTD-.1	IA1633FSTD-.2	IA1633FSTD-.5	IA1633FSTD-2.5	IA1633FSTD-5	IA1633FSTD-12.5	IA1633FSTD-25	IA1633FSTD-50	IA1633FSTD-62.5	AVG RF	RSD
EIS	13C4-PFBA	1.09	1.25	1.196	1.068	1.121	1.068	1.129	1.157	1.087	1.130	5.467
EIS	13C5-PFPeA	0.867	1.012	0.913	0.898	0.858	0.875	0.899	0.968	0.842	0.903	6.07
EIS	13C5-PFHxA	0.77	1.017	0.843	0.81	0.785	0.784	0.838	0.901	0.893	0.849	9.229
EIS	13C4-PFHpA	0.756	0.801	0.869	0.762	0.807	0.725	0.815	0.983	0.853	0.819	9.368
EIS	13C8-PFOA	1.614	1.883	1.88	1.628	1.548	1.524	1.766	1.553	1.408	1.645	9.995
EIS	13C9-PFNA	0.944	1.124	1.037	0.919	0.93	1.041	1.03	1.002	0.958	0.998	6.71
EIS	13C6-PFDA	1.016	1.264	1.181	1.007	1.002	0.964	1.027	1.16	1.023	1.071	9.603
EIS	13C7-PFUnA	1.183	1.384	1.337	1.109	1.138	1.101	1.112	1.183	1.09	1.182	9.065
EIS	13C2-PFDoA	1.08	1.281	1.272	1.095	1.122	1.105	1.237	1.275	1.234	1.189	7.247
EIS	13C2-PFTeDA	0.695	0.831	0.806	0.696	0.752	0.684	0.778	0.885	0.811	0.771	9.037
EIS	13C3-PFBS	1.261	1.373	1.523	1.179	1.191	1.276	1.276	1.234	1.1	1.268	9.63
EIS	13C3-PFHxS	1.165	1.177	1.191	1.048	1.043	1.155	1.099	1.187	1.075	1.127	5.363
EIS	13C8-PFOS	1.297	1.284	1.197	1.11	1.23	1.085	1.157	1.234	1.138	1.193	6.279
EIS	13C2-4:2FTS	0.176	0.187	0.194	0.169	0.165	0.175	0.198	0.209	0.21	0.187	8.931
EIS	13C2-6:2FTS	0.146	0.156	0.157	0.138	0.149	0.16	0.162	0.193	0.19	0.161	11.486
EIS	13C2-8:2FTS	0.126	0.17	0.167	0.13	0.143	0.15	0.172	0.214	0.191	0.163	17.555
EIS	13C8-PFOSA	1.911	1.994	1.975	1.74	1.903	1.745	1.933	1.982	1.864	1.894	5.06
EIS	d3-NMeFOSA	0.341	0.366	0.346	0.314	0.353	0.309	0.336	0.363	0.345	0.342	5.718
EIS	d5-NEtFOSA	0.312	0.328	0.313	0.279	0.323	0.284	0.313	0.323	0.322	0.311	5.689
EIS	d3-NMeFOSAA	N/A	0.242	0.244	0.211	0.272	0.209	0.238	0.234	0.224	0.234	8.677
EIS	d5-NEtFOSAA	N/A	0.194	0.187	0.173	0.184	0.172	0.19	0.205	0.194	0.187	5.973
EIS	d7-NMeFOSE	0.241	0.257	0.251	0.232	0.255	0.226	0.248	0.255	0.243	0.246	4.372
EIS	d9-NEtFOSE	0.34	0.349	0.345	0.309	0.34	0.303	0.328	0.335	0.321	0.330	4.833
EIS	13C3-HFPO-DA	0.844	0.965	0.87	0.889	0.853	0.856	0.903	0.983	0.915	0.898	5.521
NIS	13C3-PFBA	1.128	1.075	1.092	1.12	1.165	0.994	0.884	0.764	0.778	1.000	15.428
NIS	13C2-PFHxA	1.093	0.976	1.053	1.03	1.173	0.969	0.941	0.842	0.922	1.000	9.874
NIS	13C4-PFOA	1.011	0.933	0.972	1.01	1.114	1.041	0.904	0.948	1.066	1.000	6.759
NIS	13C5-PFNA	1.003	0.975	1.024	1.064	1.117	1.004	0.[illegible]		1.001	1.000	6.757
NIS	13C2-PFDA	1.087	0.947	0.973	1.055	1.14	1.021	0.[illegible]		0.933	1.000	8.155
NIS	18O2-PFHxS	1.038	0.995	0.959	1.043	1.173	0.963	0.[illegible]		0.958	1.000	7.734
NIS	13C4-PFOS	0.986	1.007	1.018	1.047	1.059	1.019	0.[illegible]		0.971	1.000	4.095

Initial Calibration Report

SCIEX OS Version 3.3.1.43

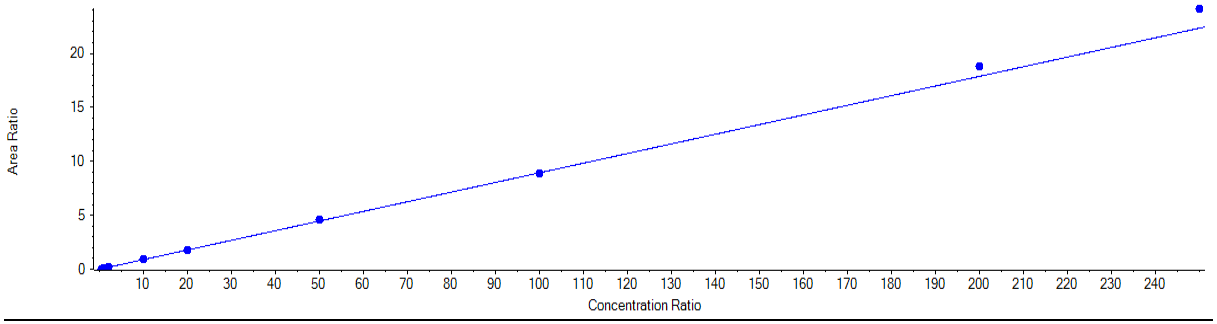
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFBA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	0.59	1783000	61301	0.385	96.2	0.860	201	True	1.49
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	0.59	1947000	127068	0.730	91.3	0.816	339	True	1.60
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	0.60	1892000	314550	1.860	93.0	0.831	530	True	1.21
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	0.59	1734000	1665038	10.744	107.4	0.960	1595	True	1.25
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	0.60	1893000	3301288	19.512	97.6	0.872	2556	True	1.10
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	0.59	1539000	7000230	50.900	101.8	0.910	3394	True	1.55
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	0.59	1447000	12882735	99.592	99.6	0.890	5847	True	1.09
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	0.60	1281000	24068781	210.285	105.1	0.940	7485	True	1.50
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	0.60	1226000	29592587	269.999	108.0	0.965	5613	True	1.34

Analyte Name: PFBA
Regression Equation: Y = 0.894 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.005 Avg. RF = 0.894 RSD = 6.071 RSE = 6.071
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

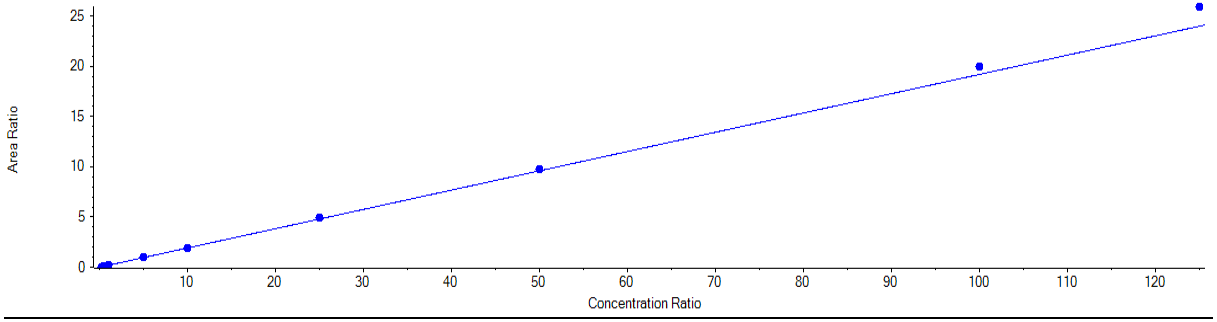
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFPeA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.18	768100	26916	0.183	91.3	0.876	318	True	0.84
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.18	800800	56781	0.369	92.4	0.886	647	True	1.12
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.19	779200	145153	0.970	97.1	0.931	1496	True	1.31
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.17	749300	749202	5.210	104.2	1.000	4025	True	1.17
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.19	815400	1536865	9.820	98.2	0.942	5414	True	1.23
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.18	686600	3385792	25.691	102.8	0.986	7844	True	1.43
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.18	685900	6731661	51.136	102.3	0.981	11860	True	1.13
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.19	660500	13165995	103.859	103.9	0.997	16423	True	1.17
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	1.19	629300	16309147	135.028	108.0	1.037	17981	True	1.14

Analyte Name: PFPeA
Regression Equation: Y = 0.960 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.011 Avg. RF = 0.960 RSD = 5.656 RSE = 5.656
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

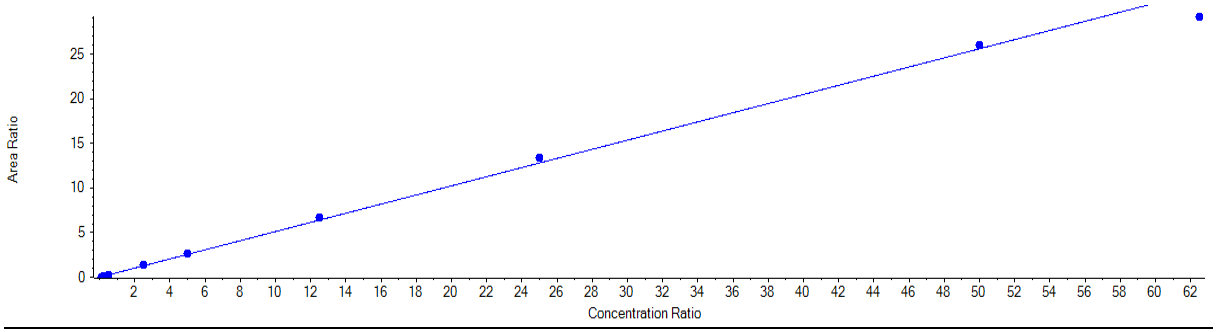
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFHxA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.92	341100	18390	0.105	105.3	1.348	243	True	1.31
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.92	402500	36018	0.175	87.4	1.119	503	True	1.04
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.93	359800	89541	0.486	97.2	1.244	1186	True	1.38
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.92	337900	452175	2.612	104.5	1.338	3564	True	0.98
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.93	373200	993215	5.196	103.9	1.331	8644	True	1.25
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.92	307600	2055627	13.046	104.4	1.337	10853	True	1.08
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.92	319800	4283855	26.153	104.6	1.340	7697	True	1.10
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.93	307400	8005794	50.842	101.7	1.302	30867	True	1.32
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	1.93	333700	9738902	56.977	91.2	1.167	10457	True	1.12

Analyte Name: PFHxA
Regression Equation: Y = 1.281 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.034 Avg. RF = 1.281 RSD = 6.636 RSE = 6.636
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

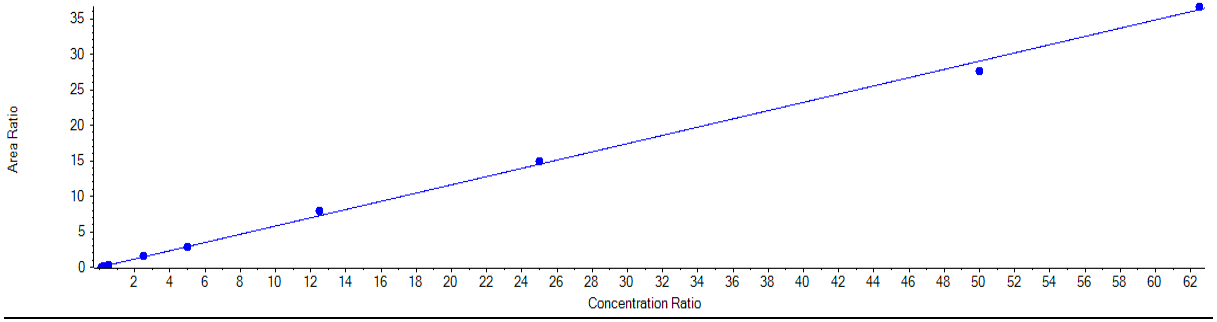
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFHpA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.50	334900	19125	0.098	98.4	1.428	232	True	1.53
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.49	317100	34005	0.185	92.3	1.341	362	True	1.28
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.51	370900	100230	0.465	93.1	1.351	1201	True	1.38
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.50	318100	510666	2.765	110.6	1.605	3759	True	1.20
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.50	383300	1081988	4.861	97.2	1.411	5443	True	1.13
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.49	284400	2271101	13.751	110.0	1.597	8675	True	1.15
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.49	310700	4615047	25.582	102.3	1.485	24341	True	1.10
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	2.51	335400	9253281	47.505	95.0	1.379	16136	True	1.07
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.50	318800	11695516	63.173	101.1	1.467	14609	True	1.04

Analyte Name: PFHpA
Regression Equation: Y = 1.452 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.039 Avg. RF = 1.452 RSD = 6.715 RSE = 6.715
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

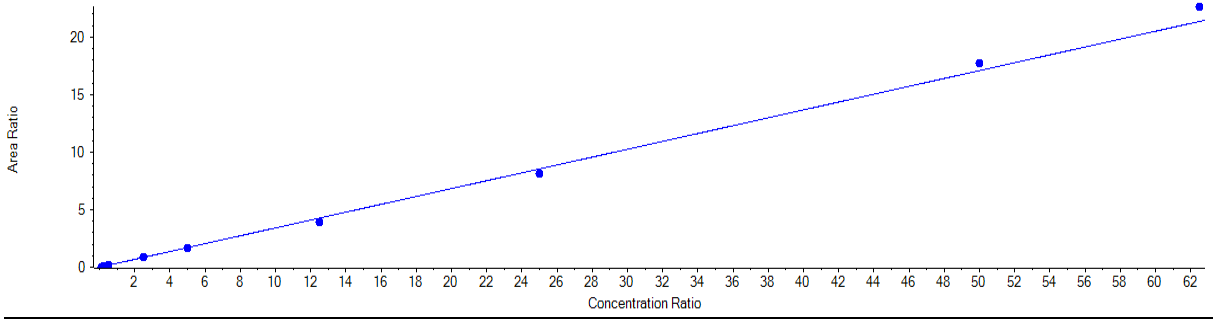
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFOA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.99	586700	21875	0.109	109.1	0.932	109	True	0.17
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.99	631600	43232	0.200	100.1	0.856	182	True	0.16
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.00	656900	104430	0.465	93.0	0.795	304	True	0.15
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.99	590900	510178	2.525	101.0	0.863	671	True	0.15
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.99	619900	1059244	4.998	100.0	0.854	807	True	0.18
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.99	570400	2251933	11.547	92.4	0.790	833	True	0.17
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.98	573900	4650748	23.702	94.8	0.810	839	True	0.16
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.00	529000	9382514	51.876	103.8	0.887	835	True	0.17
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.99	539700	12214696	66.203	105.9	0.905	874	True	0.17

Analyte Name: PFOA
Regression Equation: Y = 0.855 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.020 Avg. RF = 0.855 RSD = 5.770 RSE = 5.770
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

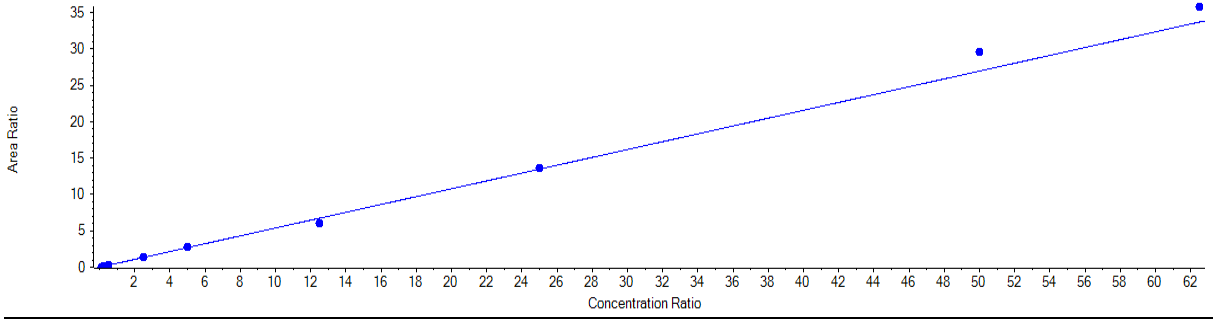
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFNA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	3.43	243800	13249	0.101	100.7	0.679	81	True	0.16
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	3.43	282300	27755	0.182	91.1	0.614	111	True	0.13
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.44	273600	68495	0.464	92.8	0.626	267	True	0.16
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	3.43	251700	351968	2.592	103.7	0.699	616	True	0.14
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	3.44	267500	754244	5.227	104.5	0.705	782	True	0.17
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	3.43	269400	1644711	11.317	90.5	0.610	778	True	0.16
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	3.43	239900	3254324	25.146	100.6	0.678	802	True	0.17
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.44	234300	6937733	54.893	109.8	0.740	819	True	0.16
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	3.44	246800	8836404	66.367	106.2	0.716	908	True	0.16

Analyte Name: PFNA
Regression Equation: Y = 0.674 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.038 Avg. RF = 0.674 RSD = 6.972 RSE = 6.972
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

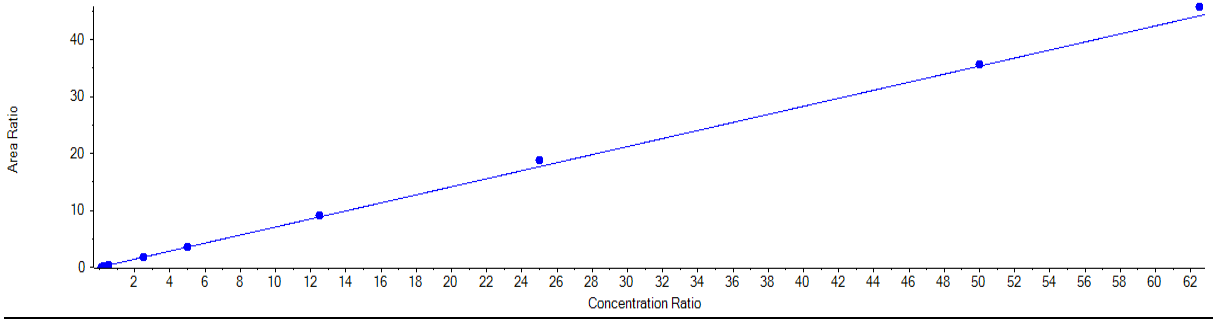
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFDA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	3.85	293500	19483	0.094	93.9	0.830	213	True	1.28
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	3.85	318300	39411	0.175	87.5	0.774	414	True	0.94
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.86	305500	109021	0.505	100.9	0.892	1123	True	1.03
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	3.85	282500	506127	2.533	101.3	0.896	5081	True	1.34
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	3.86	303500	1098134	5.116	102.3	0.905	11005	True	1.33
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	3.85	261700	2393212	12.928	103.4	0.914	25084	True	1.01
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	3.85	260500	4900144	26.597	106.4	0.941	50712	True	1.19
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.87	273800	9749585	50.343	100.7	0.890	97540	True	1.16
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	3.86	253600	11610738	64.733	103.6	0.916	108690	True	1.22

Analyte Name: PFDA
Regression Equation: Y = 0.884 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.041 Avg. RF = 0.884 RSD = 5.775 RSE = 5.775
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

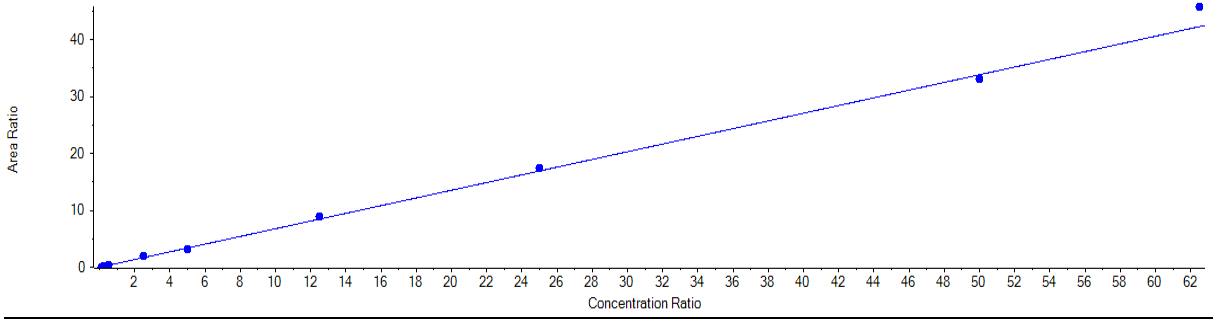
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFUnA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	4.26	341800	20821	0.090	89.9	0.762	227	True	1.04
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.26	348400	43471	0.184	92.1	0.780	522	True	0.95
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.26	345900	112775	0.481	96.3	0.815	1269	True	1.04
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.26	311100	586262	2.782	111.3	0.942	6865	True	1.22
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.26	344600	1126033	4.824	96.5	0.817	13090	True	0.93
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.25	299000	2646158	13.066	104.5	0.885	31128	True	0.85
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.25	282200	4930660	25.798	103.2	0.874	57705	True	0.98
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.27	279400	9277433	49.015	98.0	0.830	23879	True	1.09
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.26	270200	12375537	67.627	108.2	0.916	30023	True	1.07

Analyte Name: PFUnA
Regression Equation: Y = 0.847 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.049 Avg. RF = 0.847 RSD = 7.238 RSE = 7.238
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

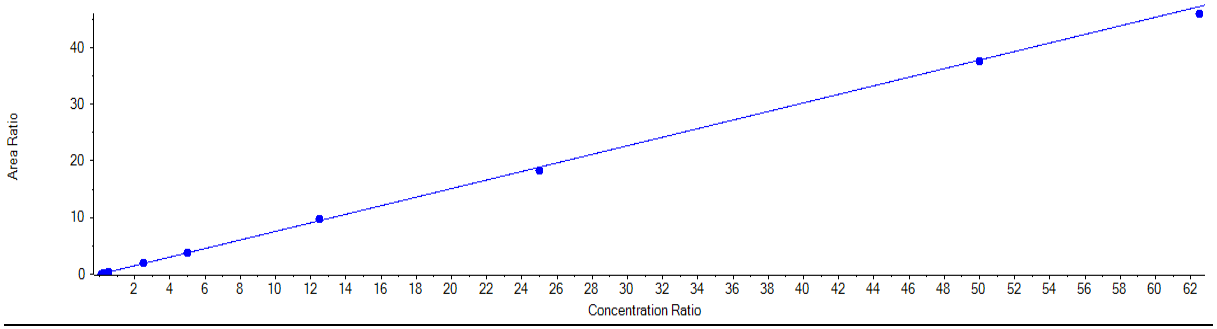
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFDoA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	4.65	312100	24385	0.103	103.3	0.977	357	True	0.91
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.65	322700	44569	0.183	91.3	0.863	651	True	1.10
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.65	329000	124129	0.499	99.8	0.943	1779	True	0.94
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.65	307100	635053	2.736	109.4	1.034	9035	True	0.99
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.65	339900	1285277	5.002	100.1	0.945	14388	True	1.25
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.64	300000	2898158	12.778	102.2	0.966	19055	True	1.06
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.64	313900	5751338	24.239	97.0	0.916	25360	True	1.23
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.66	301000	11328963	49.791	99.6	0.941	51154	True	1.12
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.65	305900	14057412	60.792	97.3	0.919	189932	True	1.12

Analyte Name: PFDoA
Regression Equation: Y = 0.945 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.038 Avg. RF = 0.945 RSD = 4.962 RSE = 4.962
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

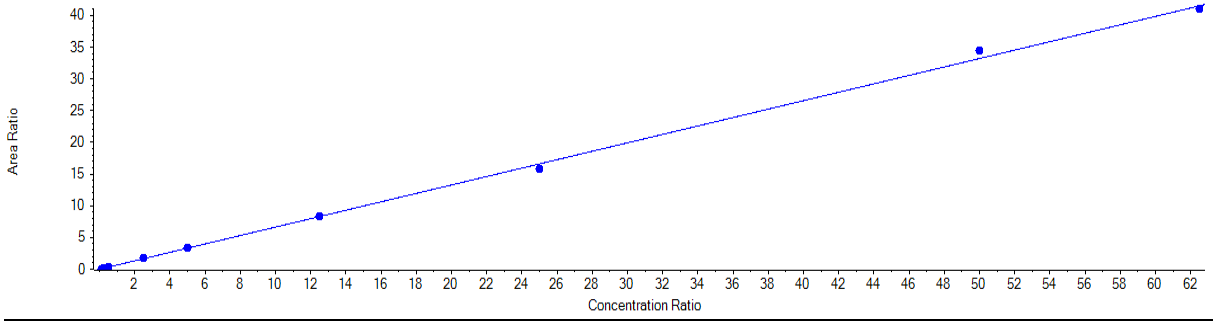
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFTrDA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	5.03	312100	19883	0.096	95.9	0.796	369	True	0.97
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	5.02	322700	40928	0.191	95.5	0.793	806	True	1.17
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	5.04	329000	107187	0.491	98.1	0.814	1986	True	1.00
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	5.03	307100	565040	2.771	110.8	0.920	10830	True	1.15
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	5.03	339900	1143113	5.064	101.3	0.841	21144	True	1.30
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	5.02	300000	2502695	12.561	100.5	0.834	11020	True	0.88
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	5.02	313900	4971702	23.851	95.4	0.792	26308	True	0.90
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	5.04	301000	10358401	51.821	103.6	0.860	35069	True	1.08
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	5.03	305900	12552333	61.790	98.9	0.821	24769	True	1.16

Analyte Name: PFTrDA
Regression Equation: Y = 0.830 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.033 Avg. RF = 0.830 RSD = 4.944 RSE = 4.944
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

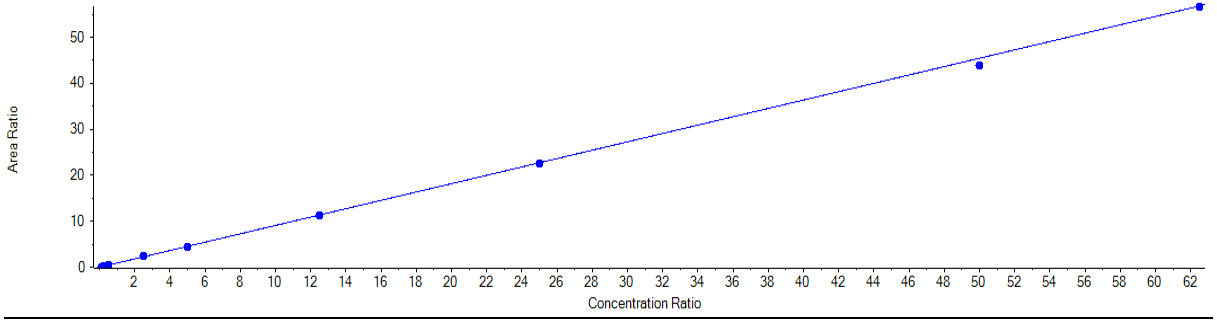
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFTeDA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	5.39	200800	16734	0.092	91.7	1.042	447	True	0.82
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	5.40	209300	39104	0.205	102.7	1.168	1118	True	1.08
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	5.40	208500	97120	0.512	102.5	1.165	2732	True	1.25
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	5.40	195400	482581	2.717	108.7	1.235	3421	True	1.11
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	5.40	227900	1015779	4.903	98.1	1.115	9919	True	1.01
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	5.39	185600	2116245	12.538	100.3	1.140	7482	True	0.85
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	5.39	197400	4474053	24.931	99.7	1.133	13495	True	1.25
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	5.41	209000	9185109	48.341	96.7	1.099	12757	True	0.84
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	5.40	201100	11389632	62.294	99.7	1.133	11542	True	0.97

Analyte Name: PFTeDA
Regression Equation: Y = 1.136 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.042 Avg. RF = 1.136 RSD = 4.655 RSE = 4.655
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

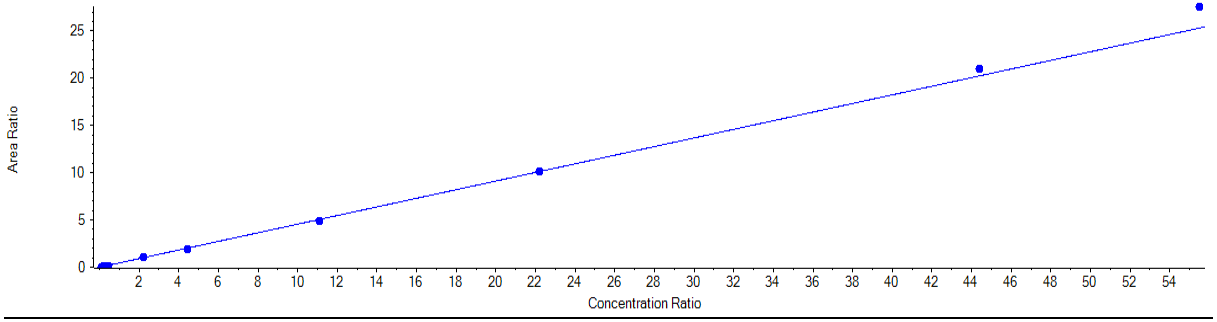
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFBS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.92	358800	15126	0.092	103.9	1.104	184	True	1.14
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.92	374600	28184	0.165	92.7	0.985	338	True	0.95
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.93	400500	71222	0.390	87.8	0.933	807	True	1.09
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.92	337300	375073	2.439	109.9	1.167	2212	True	1.37
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.93	383300	743303	4.253	95.8	1.018	2670	True	1.12
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.92	337100	1652384	10.752	96.9	1.029	5427	True	0.99
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.92	336600	3430735	22.354	100.7	1.070	6765	True	0.98
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.93	307600	6442266	45.942	103.5	1.099	5415	True	1.11
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	1.92	288900	7957403	60.419	108.9	1.156	6795	True	0.95

Analyte Name: PFBS
Regression Equation: Y = 1.062 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.034 Avg. RF = 1.062 RSD = 7.351 RSE = 7.351
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

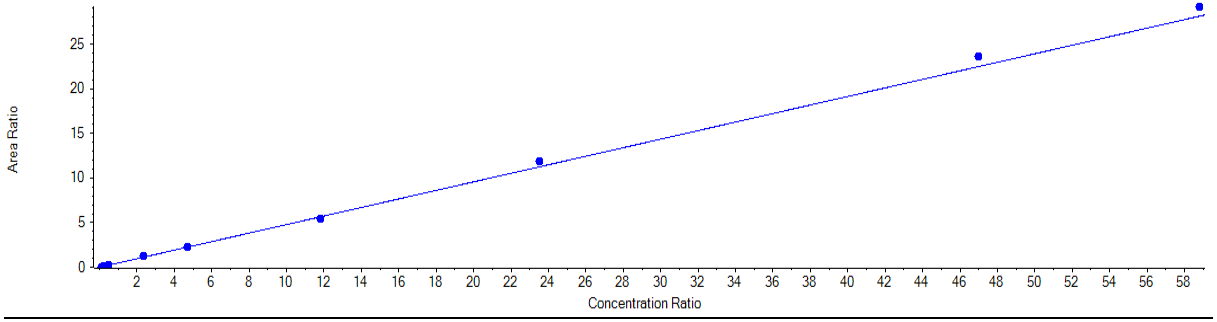
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFPeS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.56	337200	12916	0.080	85.2	0.966	141	True	1.35
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.56	326800	28269	0.181	96.2	1.090	310	True	1.03
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.57	318800	71445	0.468	99.6	1.130	808	True	1.04
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.56	305000	376998	2.583	109.9	1.247	2993	True	1.07
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.57	341500	763378	4.671	99.4	1.127	4626	True	1.25
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.56	310400	1674196	11.271	95.5	1.083	5108	True	0.99
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.56	294900	3500458	24.807	105.6	1.197	7261	True	1.00
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	2.57	300900	7099834	49.314	104.9	1.190	7981	True	1.19
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.56	287300	8382252	60.984	103.7	1.176	88545	True	1.12

Analyte Name: PFPeS
Regression Equation: Y = 1.134 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.035 Avg. RF = 1.134 RSD = 7.273 RSE = 7.273
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

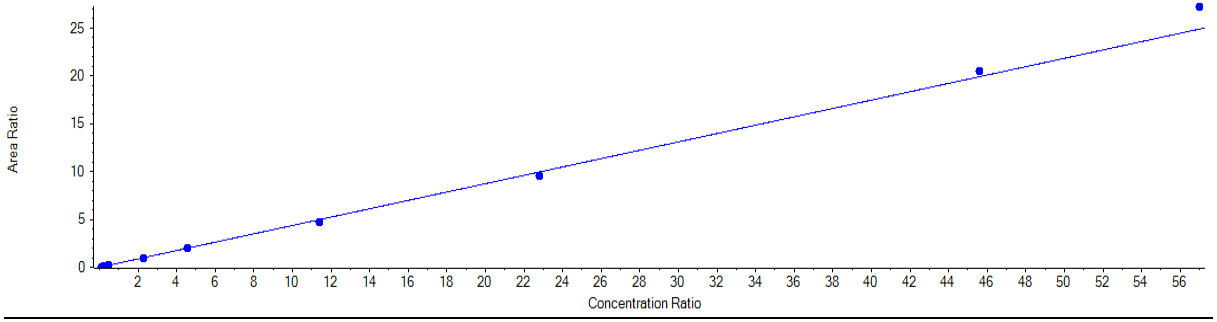
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFHxS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	3.09	337200	14015	0.095	104.5	1.082	142	True	0.22
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	3.09	326800	26461	0.185	101.8	1.054	281	True	0.20
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.10	318800	58304	0.418	91.8	0.950	541	True	0.24
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	3.09	305000	305154	2.290	100.4	1.040	971	True	0.18
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	3.10	341500	666792	4.468	98.0	1.015	1292	True	0.20
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	3.09	310400	1468749	10.827	95.0	0.984	1220	True	0.18
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	3.09	294900	2820486	21.887	96.0	0.994	1172	True	0.18
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.10	300900	6188572	47.066	103.2	1.069	1374	True	0.19
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	3.10	287300	7822638	62.317	109.3	1.132	1154	True	0.20

Analyte Name: PFHxS
Regression Equation: Y = 1.036 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.024 Avg. RF = 1.036 RSD = 5.411 RSE = 5.411
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

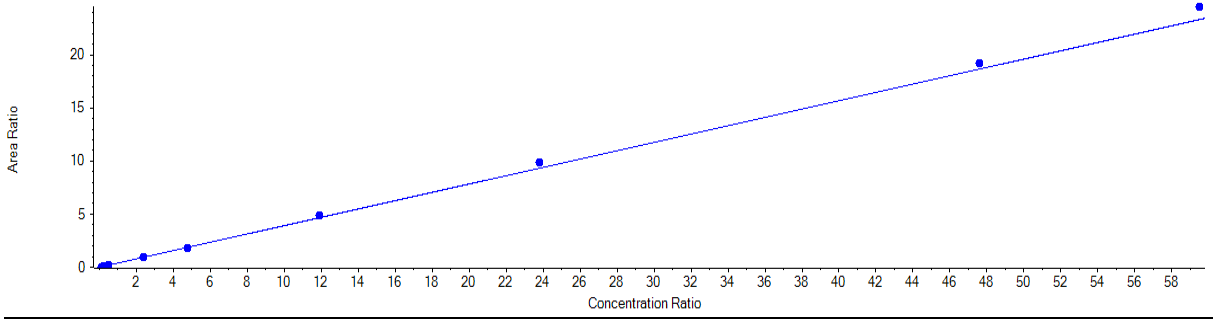
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFHpS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	3.56	369000	12571	0.087	91.5	0.861	133	True	1.13
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	3.57	373100	25660	0.176	92.4	0.869	276	True	1.18
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.57	351800	63766	0.463	97.2	0.914	682	True	1.33
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	3.56	335500	319049	2.426	101.9	0.959	3475	True	0.93
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	3.57	376000	684345	4.644	97.6	0.918	7425	True	0.92
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	3.56	319000	1564690	12.517	105.2	0.989	6243	True	1.05
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	3.56	317900	3139370	25.199	105.9	0.996	7089	True	1.13
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.58	334800	6448557	49.150	103.3	0.971	12200	True	0.85
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	3.57	318900	7818754	62.558	105.1	0.989	9181	True	0.89

Analyte Name: PFHpS
Regression Equation: Y = 0.941 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.022 Avg. RF = 0.941 RSD = 5.551 RSE = 5.551
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

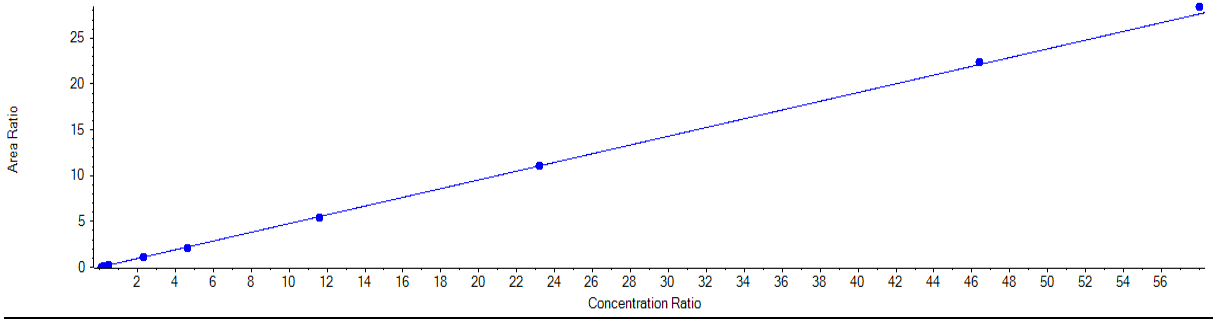
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFOS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	4.00	369000	18519	0.105	113.2	1.295	84	True	0.16
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.00	373100	31827	0.179	96.2	1.101	251	True	0.14
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.01	351800	74213	0.443	95.4	1.091	292	True	0.16
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.00	335500	364503	2.279	98.2	1.124	531	True	0.17
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.01	376000	789631	4.406	95.0	1.086	525	True	0.14
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.00	319000	1724874	11.344	97.8	1.119	593	True	0.15
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.00	317900	3530703	23.299	100.4	1.149	630	True	0.16
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.01	334800	7481587	46.880	101.0	1.156	633	True	0.17
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.01	318900	9063220	59.616	102.8	1.176	599	True	0.17

Analyte Name: PFOS
Regression Equation: Y = 1.144 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.027 Avg. RF = 1.144 RSD = 5.622 RSE = 5.622
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

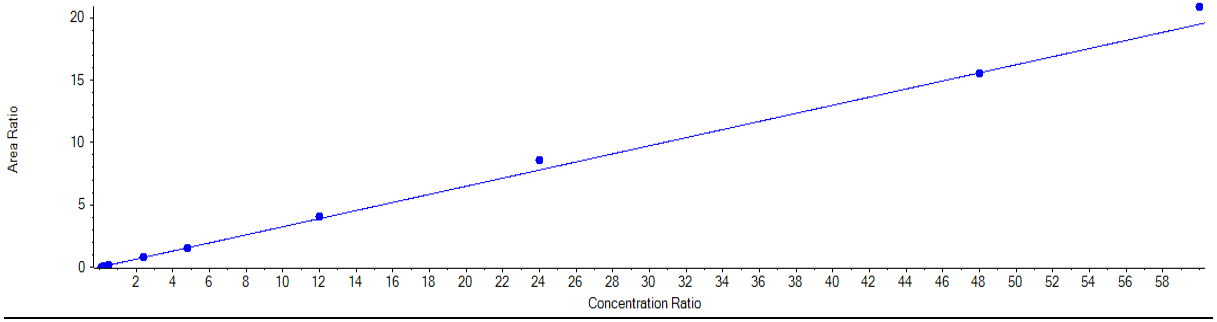
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFNS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	4.41	369000	9312	0.078	81.0	0.631	121	True	0.84
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.41	373100	21727	0.179	93.5	0.728	278	True	1.21
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.42	351800	55507	0.486	101.3	0.789	732	True	0.94
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.41	335500	279311	2.565	106.9	0.832	3270	True	1.06
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.42	376000	568907	4.662	97.1	0.757	7426	True	0.84
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.41	319000	1286807	12.429	103.6	0.807	7699	True	1.23
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.41	317900	2718126	26.345	109.8	0.855	6700	True	0.91
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.43	334800	5205066	47.903	99.8	0.777	64649	True	1.09
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.42	318900	6654625	64.290	107.2	0.835	7089	True	1.13

Analyte Name: PFNS
Regression Equation: Y = 0.779 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.029 Avg. RF = 0.779 RSD = 8.806 RSE = 8.806
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

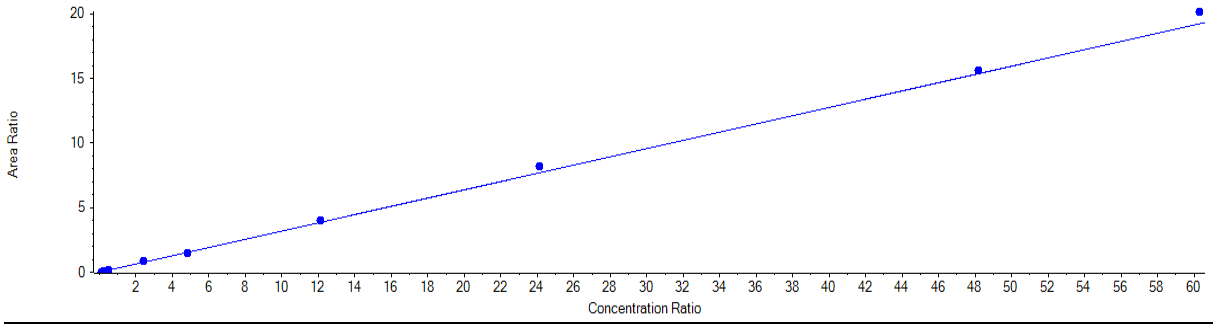
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFDS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	4.81	369000	10126	0.086	89.7	0.686	175	True	0.82
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.81	373100	19910	0.167	86.7	0.664	378	True	0.92
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.82	351800	54400	0.485	100.6	0.770	969	True	1.12
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.81	335500	281780	2.633	109.3	0.836	5121	True	0.88
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.82	376000	567545	4.734	98.2	0.752	5534	True	1.08
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.80	319000	1268050	12.467	103.0	0.789	23159	True	0.93
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.80	317900	2594683	25.598	106.2	0.813	46801	True	1.05
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.82	334800	5221579	48.915	101.5	0.777	92232	True	0.95
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.81	318900	6425873	63.191	104.8	0.802	111590	True	0.96

Analyte Name: PFDS
Regression Equation: Y = 0.765 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.024 Avg. RF = 0.765 RSD = 7.468 RSE = 7.468
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

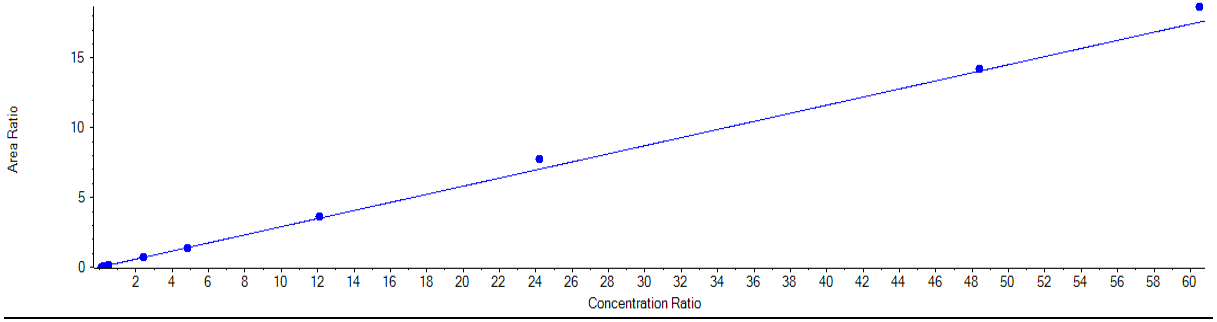
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFDoS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	5.55	369000	8920	0.083	85.8	0.598	311	True	0.78
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	5.55	373100	19036	0.176	90.5	0.631	637	True	1.17
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	5.56	351800	48558	0.475	98.2	0.684	1628	True	0.72
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	5.55	335500	250510	2.570	106.2	0.740	4771	True	1.25
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	5.56	376000	520719	4.767	98.5	0.687	7819	True	1.00
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	5.55	319000	1153280	12.445	102.9	0.717	16086	True	1.00
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	5.55	317900	2467934	26.723	110.4	0.770	34441	True	0.89
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	5.56	334800	4770330	49.048	101.3	0.707	25340	True	0.88
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	5.56	318900	5954134	64.265	106.2	0.741	22934	True	0.96

Analyte Name: PFDoS
Regression Equation: Y = 0.697 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.023 Avg. RF = 0.697 RSD = 7.850 RSE = 7.850
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

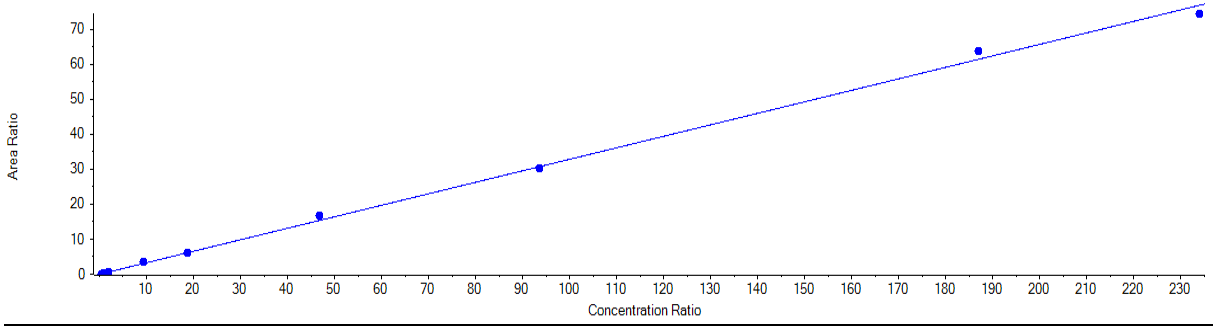
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 4:2FTS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.71	101000	10859	0.328	87.3	1.344	210	True	0.98
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.71	102700	24433	0.725	96.7	1.488	487	True	1.15
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.72	102800	60344	1.788	95.6	1.472	1174	True	1.21
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.71	97210	331902	10.404	111.0	1.709	6496	True	1.00
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.72	106800	667760	19.061	101.9	1.569	13346	True	1.20
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.71	93290	1557181	50.865	108.5	1.669	30838	True	1.16
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.71	105200	3184094	92.227	98.4	1.515	62748	True	1.13
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.73	104700	6660449	193.838	103.7	1.595	7948	True	1.11
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	1.72	110900	8244658	226.547	96.8	1.490	160505	True	1.06

Analyte Name: 4:2FTS
Regression Equation: Y = 1.539 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.024 Avg. RF = 1.539 RSD = 7.186 RSE = 7.186
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

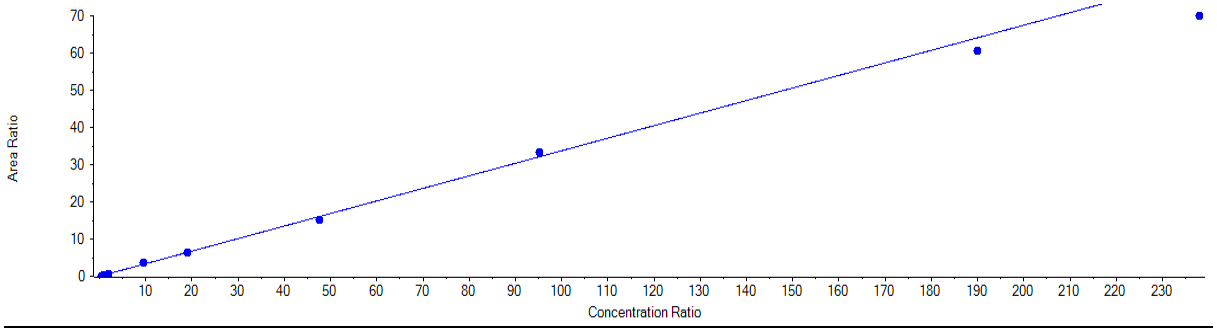
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 6:2FTS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.80	84760	10691	0.373	98.2	1.580	97	True	1.23
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.80	87050	23022	0.783	102.8	1.654	286	True	1.29
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.81	84550	56508	1.978	104.1	1.674	641	True	1.13
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.80	80790	303189	11.105	116.8	1.878	3053	True	1.20
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.81	98260	613808	18.486	97.3	1.565	7020	True	0.89
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.80	86620	1324969	45.265	95.1	1.530	5350	True	1.16
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.80	87390	2925605	99.064	104.2	1.676	6292	True	1.09
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	2.81	98170	5948441	179.300	94.4	1.518	69345	True	1.33
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.81	101700	7131070	207.429	87.2	1.402	7253	True	1.21

Analyte Name: 6:2FTS
Regression Equation: Y = 1.609 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.028 Avg. RF = 1.609 RSD = 8.326 RSE = 8.326
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

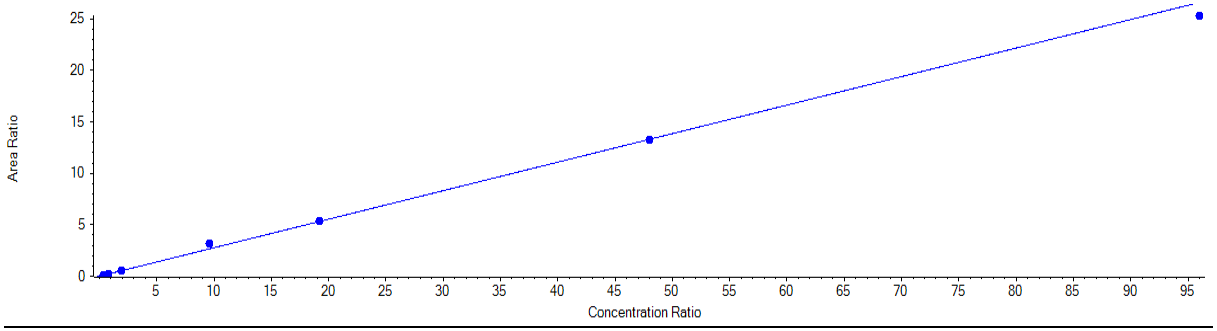
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 8:2FTS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	3.67	73780	7732	0.378	98.4	1.310	103	True	1.12
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	3.67	95340	16762	0.634	82.6	1.099	185	True	1.40
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.68	90240	49749	1.989	103.6	1.378	559	True	0.88
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	3.67	76510	245593	11.579	120.6	1.605	2776	True	1.23
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	3.67	95060	505170	19.170	99.9	1.329	5674	True	1.39
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	3.66	81900	1088274	47.930	99.9	1.329	6069	True	0.92
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	3.66	93680	2370696	91.288	95.1	1.265	7718	True	1.01
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	N/A	109700	N/A	N/A	N/A	N/A	N/A	False	N/A
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	N/A	103400	N/A	N/A	N/A	N/A	N/A	False	N/A

Analyte Name: 8:2FTS
Regression Equation: Y = 1.331 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.031 Avg. RF = 1.331 RSD = 11.312 RSE = 11.312
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

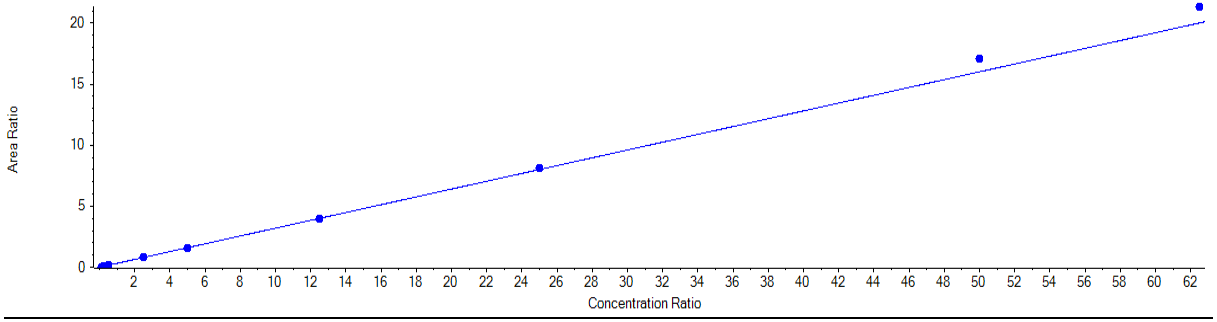
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFOSA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	5.23	566100	17024	0.094	93.9	0.752	270	True	0.19
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	5.23	603800	36171	0.187	93.5	0.749	391	True	0.17
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	5.25	604500	92361	0.477	95.4	0.764	381	True	0.19
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	5.24	547500	453787	2.588	103.5	0.829	370	True	0.17
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	5.24	606000	956494	4.928	98.6	0.789	352	True	0.18
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	5.23	534000	2139399	12.508	100.1	0.801	353	True	0.16
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	5.23	553200	4520171	25.508	102.0	0.817	385	True	0.15
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	5.25	560100	9546074	53.215	106.4	0.852	362	True	0.17
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	5.24	543900	11605870	66.620	106.6	0.854	365	True	0.19

Analyte Name: PFOSA
Regression Equation: Y = 0.801 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.016 Avg. RF = 0.801 RSD = 5.046 RSE = 5.046
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

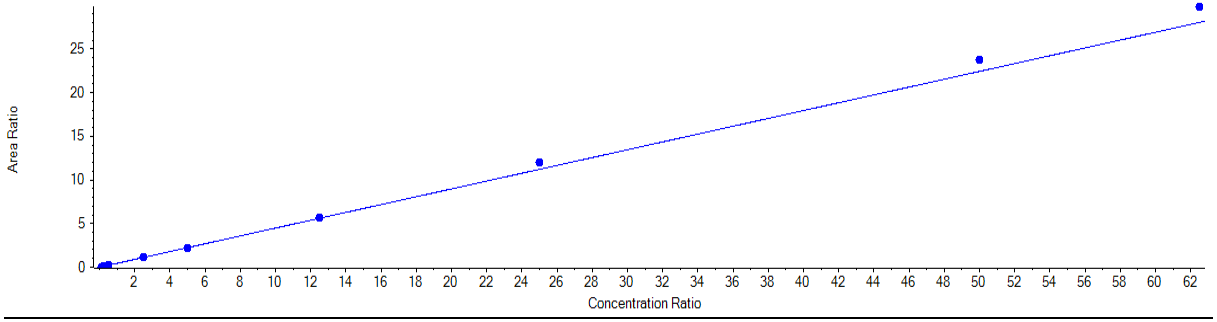
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: NMeFOSA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	5.97	101000	4334	0.096	95.7	1.073	101	True	0.21
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	5.97	110700	8760	0.177	88.3	0.989	141	True	0.19
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	5.98	105900	21343	0.450	89.9	1.008	210	True	0.18
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	5.98	98730	116243	2.626	105.0	1.177	465	True	0.19
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	5.98	112400	250084	4.963	99.3	1.113	336	True	0.16
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	5.97	94720	541857	12.759	102.1	1.144	355	True	0.16
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	5.97	96290	1158854	26.842	107.4	1.203	330	True	0.17
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	5.99	102600	2438874	52.996	106.0	1.188	333	True	0.16
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	5.98	100800	3004999	66.481	106.4	1.192	342	True	0.17

Analyte Name: NMeFOSA
Regression Equation: Y = 1.121 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.032 Avg. RF = 1.121 RSD = 7.234 RSE = 7.234
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

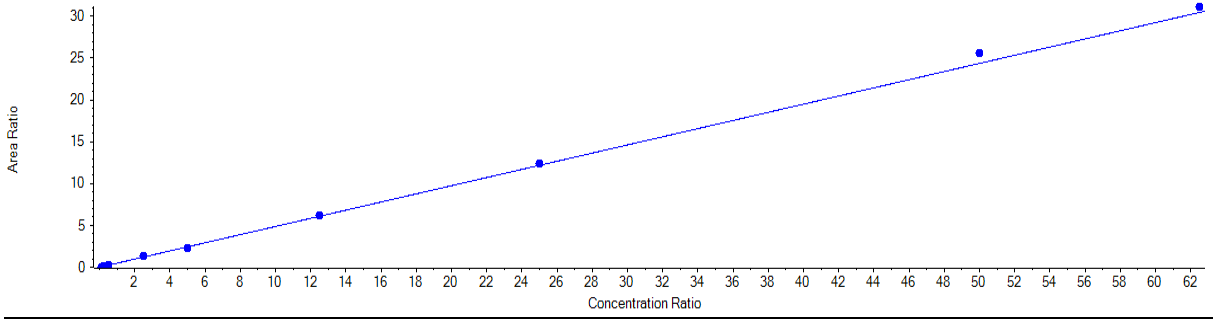
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: NEtFOSA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	6.27	92410	4656	0.103	103.4	1.260	130	True	0.14
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	6.27	99230	8995	0.186	93.0	1.133	230	True	0.17
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	6.28	95910	21494	0.460	92.0	1.120	403	True	0.17
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	6.27	87780	115462	2.699	108.0	1.315	671	True	0.18
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	6.27	102800	235607	4.701	94.0	1.145	685	True	0.17
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	6.27	86790	532096	12.580	100.6	1.226	737	True	0.19
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	6.27	89690	1109116	25.375	101.5	1.237	680	True	0.19
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	6.28	91350	2344301	52.660	105.3	1.283	702	True	0.16
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	6.28	94060	2927446	63.867	102.2	1.245	707	True	0.16

Analyte Name: NEtFOSA
Regression Equation: Y = 1.218 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.028 Avg. RF = 1.218 RSD = 5.699 RSE = 5.699
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

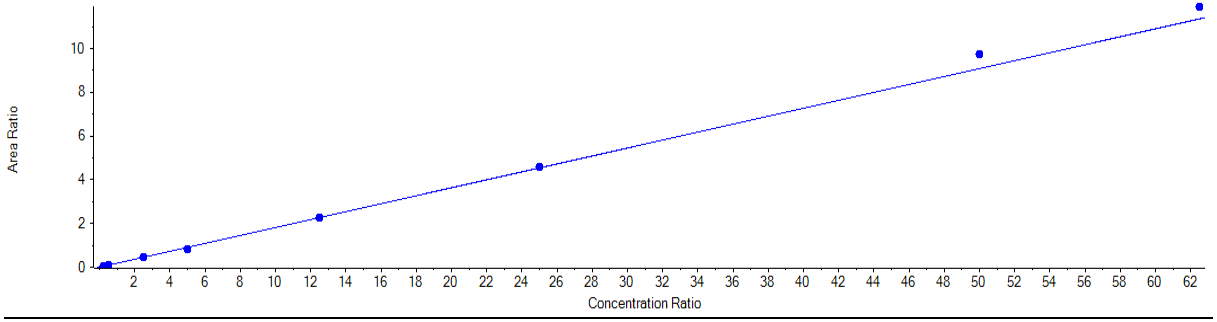
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: NMeFOSAA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	False	N/A
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	3.98	146500	4800	0.180	90.1	0.819	37	True	0.29
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.99	149200	13391	0.494	98.7	0.898	91	True	0.24
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	3.98	132600	63717	2.644	105.8	0.961	429	True	0.31
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	3.99	173200	145585	4.623	92.5	0.840	709	True	0.36
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	3.97	128000	291267	12.512	100.1	0.910	720	True	0.35
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	3.98	136000	622923	25.201	100.8	0.916	824	True	0.31
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.99	132300	1289199	53.596	107.2	0.974	665	True	0.31
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	3.98	130500	1555100	65.527	104.8	0.953	652	True	0.31

Analyte Name: NMeFOSAA
Regression Equation: Y = 0.909 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.011 Avg. RF = 0.909 RSD = 6.153 RSE = 6.153
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

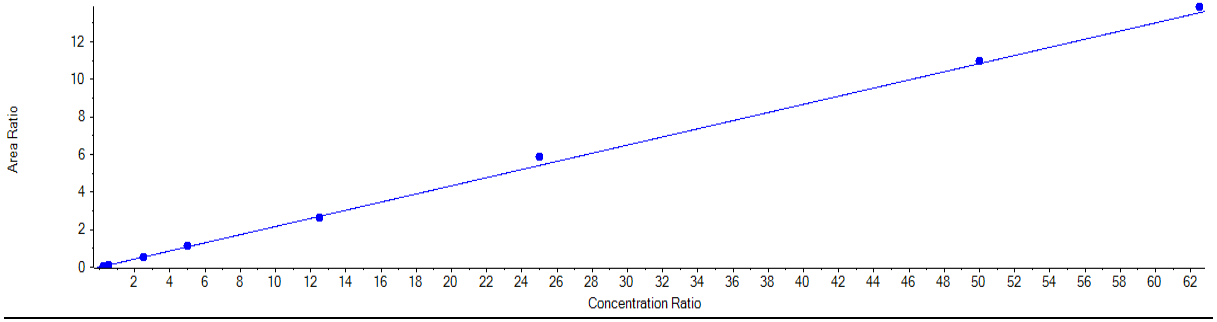
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: NEtFOSAA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	False	N/A
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.19	117500	4868	0.191	95.5	1.035	41	True	0.13
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.20	114500	11391	0.459	91.8	0.995	98	True	1.02
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.19	108900	59240	2.509	100.4	1.088	462	True	0.17
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.20	117300	132430	5.207	104.1	1.129	463	True	0.19
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.19	105300	275571	12.075	96.6	1.047	668	True	0.30
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.19	108800	637334	27.008	108.0	1.171	695	True	1.02
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.20	116100	1274167	50.631	101.3	1.098	605	True	1.14
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.20	113200	1569102	63.940	102.3	1.109	530	True	0.28

Analyte Name: NEtFOSAA
Regression Equation: Y = 1.084 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.011 Avg. RF = 1.084 RSD = 5.182 RSE = 5.182
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

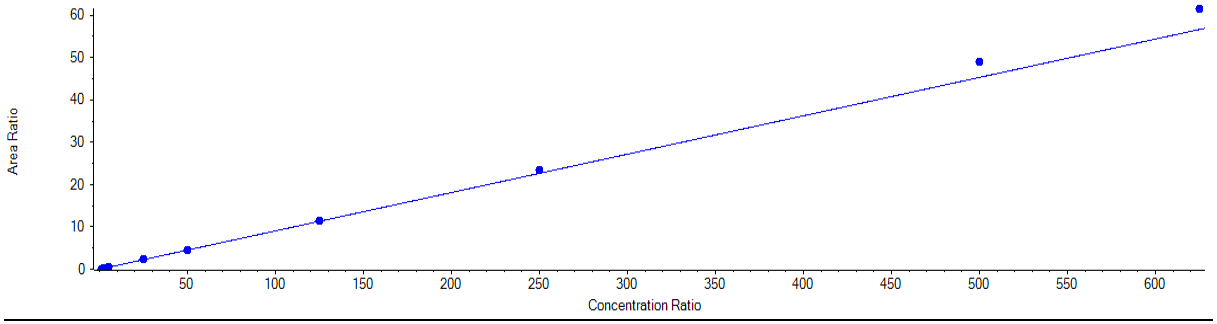
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: NMeFOSE

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	5.84	715500	60101	0.927	92.7	2.100	173	True	0.19
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	5.84	779200	127504	1.806	90.3	2.045	218	True	0.15
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	5.85	769500	320914	4.602	92.1	2.085	208	True	0.16
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	5.84	731200	1728162	26.082	104.3	2.364	245	True	0.17
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	5.85	811400	3643445	49.553	99.1	2.245	247	True	0.19
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	5.84	692900	7981840	127.131	101.7	2.304	242	True	0.19
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	5.84	709600	16569436	257.678	103.1	2.335	223	True	0.15
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	5.85	720700	35316875	540.772	108.2	2.450	235	True	0.18
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	5.85	710600	43701785	678.698	108.6	2.460	226	True	0.20

Analyte Name: NMeFOSE
Regression Equation: Y = 2.265 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.006 Avg. RF = 2.265 RSD = 6.919 RSE = 6.919
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

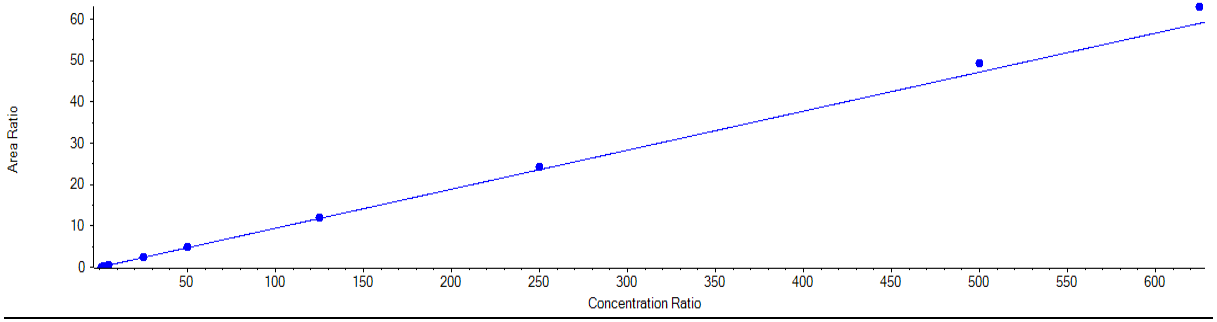
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: NEtFOSE

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	6.14	1006000	86403	0.909	90.9	2.147	274	True	0.16
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	6.14	1057000	177295	1.776	88.8	2.097	344	True	0.17
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	6.15	1054000	476061	4.780	95.6	2.258	430	True	0.14
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	6.14	973200	2460257	26.761	107.1	2.528	425	True	0.15
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	6.14	1081000	5175067	50.657	101.3	2.393	450	True	0.17
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	6.13	927300	11142098	127.199	101.8	2.403	415	True	0.16
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	6.14	939600	22852970	257.471	103.0	2.432	412	True	0.16
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	6.15	946100	46839270	524.078	104.8	2.475	380	True	0.17
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	6.14	936800	59054522	667.355	106.8	2.522	376	True	0.17

Analyte Name: NEtFOSE
Regression Equation: Y = 2.362 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.006 Avg. RF = 2.362 RSD = 6.710 RSE = 6.710
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

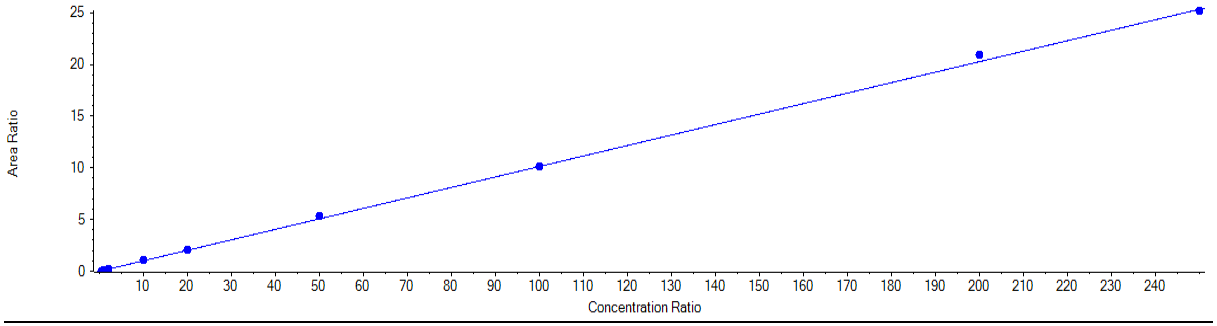
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: HFPO-DA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.13	1495000	54738	0.361	90.4	0.916	683	True	0.97
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.13	1527000	116681	0.754	94.3	0.955	1450	True	1.23
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.14	1484000	301471	2.005	100.2	1.016	3696	True	0.91
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.13	1484000	1572905	10.457	104.6	1.060	19174	True	1.29
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.14	1621000	3399227	20.693	103.5	1.049	4674	True	0.88
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.13	1344000	7141362	52.425	104.9	1.063	83225	True	1.30
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.13	1378000	13910898	99.610	99.6	1.009	161897	True	1.32
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	2.14	1342000	28089338	206.507	103.3	1.046	328304	True	1.33
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.14	1368000	34456419	248.491	99.4	1.007	34936	True	1.25

Analyte Name: HFPO-DA
Regression Equation: Y = 1.013 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.005 Avg. RF = 1.013 RSD = 4.920 RSE = 4.920
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

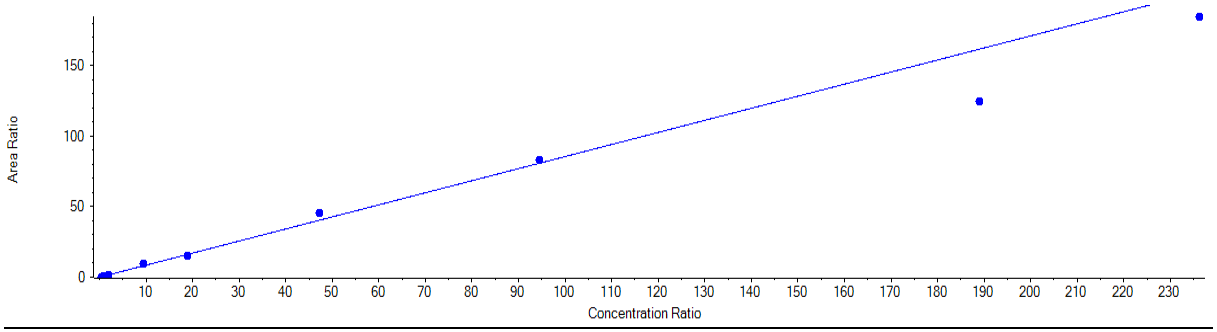
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: ADONA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.68	334900	114160	0.398	105.4	2.255	1402	True	1.19
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.68	317100	233906	0.862	114.0	2.439	1908	True	0.89
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.69	370900	524770	1.653	87.5	1.872	5597	True	1.28
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.68	318100	2939003	10.795	114.2	2.444	34049	True	0.88
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.68	383300	5884811	17.937	94.9	2.031	68492	True	1.09
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.68	284400	12920958	53.080	112.3	2.404	114841	True	0.87
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.68	310700	25930873	97.522	103.2	2.208	130003	True	0.87
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	2.69	335400	41854908	145.788	77.1	1.650	138565	True	0.97
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.68	318800	58871745	215.753	91.3	1.954	21919	True	1.01

Analyte Name: ADONA
Regression Equation: Y = 2.140 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.112 Avg. RF = 2.140 RSD = 13.092 RSE = 13.092
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

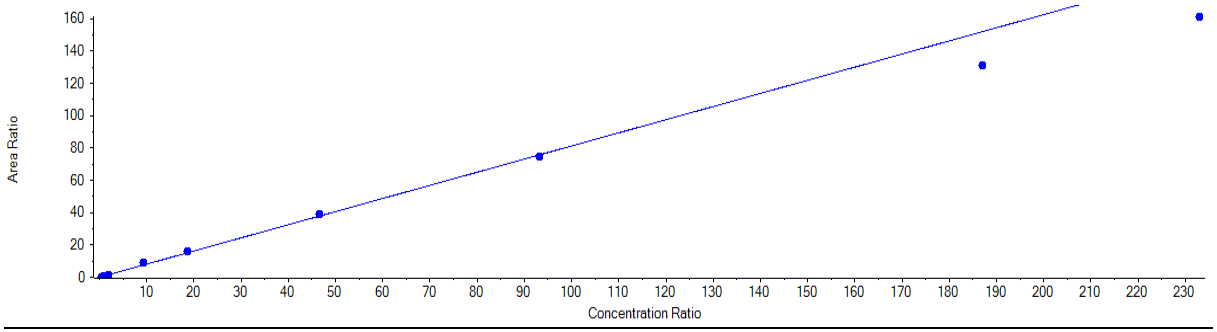
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 9Cl-PF3ONS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	4.28	369000	105849	0.353	94.7	1.846	1210	True	0.95
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.29	373100	226488	0.747	100.2	1.953	2572	True	0.79
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.29	351800	588976	2.061	110.2	2.149	6890	True	0.88
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.28	335500	2946967	10.811	115.9	2.259	7228	True	1.08
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.29	376000	6032741	19.751	105.6	2.059	10343	True	1.26
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.28	319000	12541430	48.400	103.6	2.021	9178	True	1.18
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.28	317900	23659955	91.623	98.2	1.915	7680	True	0.92
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.30	334800	43985831	161.739	86.5	1.686	6379	True	1.05
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.29	318900	51374727	198.306	85.1	1.659	6318	True	1.02

Analyte Name: 9Cl-PF3ONS
Regression Equation: Y = 1.950 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.083 Avg. RF = 1.950 RSD = 10.228 RSE = 10.228
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

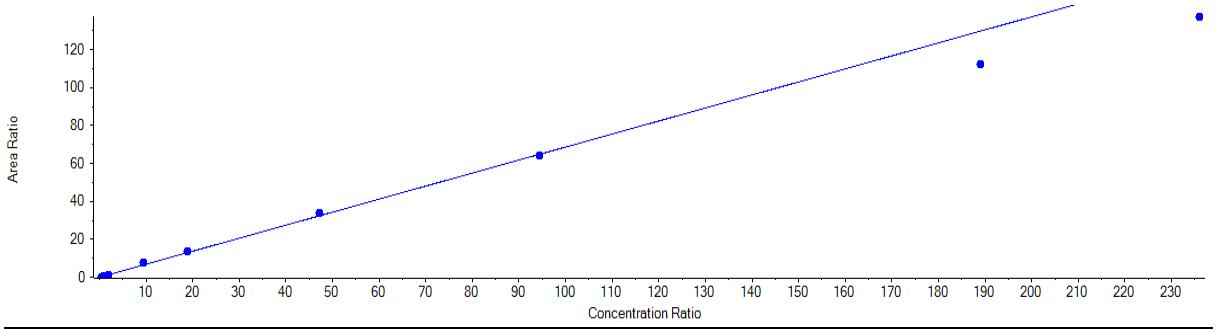
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 11Cl-PF3OUdS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	5.07	369000	91599	0.361	95.9	1.580	2098	True	1.00
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	5.07	373100	189028	0.738	97.8	1.613	3936	True	1.25
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	5.08	351800	494647	2.047	108.3	1.786	3649	True	0.95
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	5.07	335500	2566254	11.133	118.1	1.946	8576	True	1.27
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	5.08	376000	5149429	19.937	105.5	1.739	9497	True	0.79
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	5.07	319000	10793343	49.258	104.4	1.721	7749	True	0.98
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	5.07	317900	20368386	93.275	98.9	1.631	6638	True	0.99
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	5.08	334800	37585090	163.432	86.5	1.426	790591	True	1.00
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	5.08	318900	43809540	199.975	84.7	1.397	894638	True	1.19

Analyte Name: 11Cl-PF3OUdS
Regression Equation: Y = 1.649 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.072 Avg. RF = 1.649 RSD = 10.507 RSE = 10.507
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

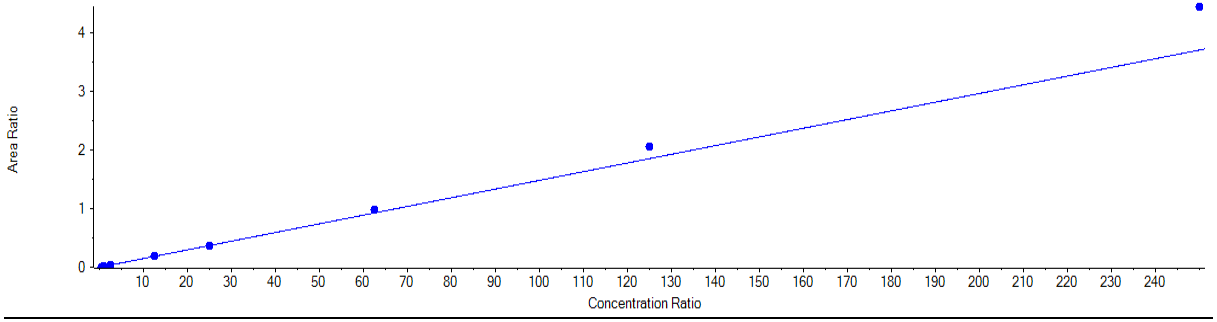
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 3:3FTCA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.56	768100	5496	0.483	96.6	0.072	51	True	1.32
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.56	800800	8501	0.716	71.6	0.053	79	True	1.76
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.57	779200	26619	2.305	92.2	0.068	190	True	2.09
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.56	749300	143001	12.878	103.0	0.076	1126	True	1.39
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.57	815400	303513	25.115	100.5	0.074	1847	True	1.32
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.56	686600	667027	65.547	104.9	0.078	2120	True	1.59
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.57	685900	1415043	139.211	111.4	0.083	3071	True	1.41
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.58	660500	2933501	299.691	119.9	0.089	3258	True	1.25
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	N/A	629300	N/A	N/A	N/A	N/A	N/A	False	N/A

Analyte Name: 3:3FTCA
Regression Equation: Y = 0.074 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.002 Avg. RF = 0.074 RSD = 14.318 RSE = 14.318
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

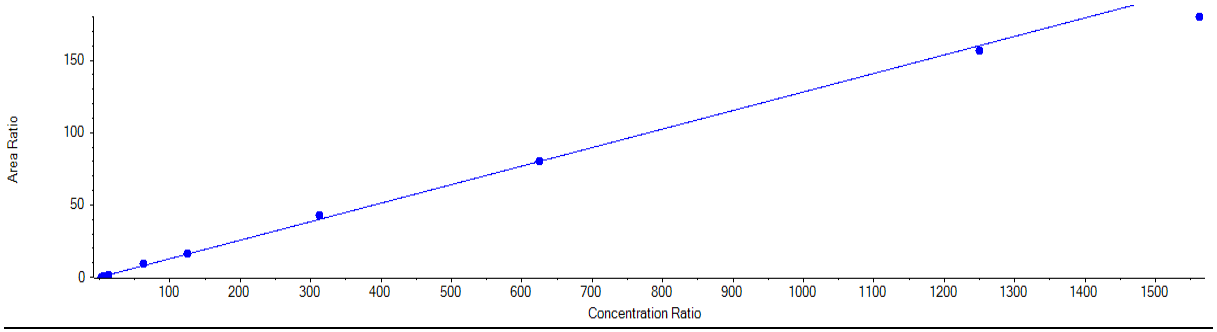
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Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 5:3FTCA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	3.03	341100	101733	2.329	93.2	0.298	1108	True	1.20
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	3.03	402500	229481	4.451	89.0	0.285	2534	True	1.01
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	3.04	359800	610827	13.255	106.0	0.340	6860	True	1.37
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	3.03	337900	3069698	70.916	113.5	0.363	16792	True	0.96
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	3.04	373200	6094534	127.497	102.0	0.327	17755	True	1.19
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	3.03	307600	13302452	337.637	108.0	0.346	118744	True	0.98
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	3.03	319800	25694766	627.339	100.4	0.321	260744	True	0.98
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.04	307400	48209215	1224.387	98.0	0.314	30155	True	1.07
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	3.04	333700	60070838	1405.496	90.0	0.288	30242	True	1.16

Analyte Name: 5:3FTCA
Regression Equation: Y = 0.320 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.011 Avg. RF = 0.320 RSD = 8.361 RSE = 8.361
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

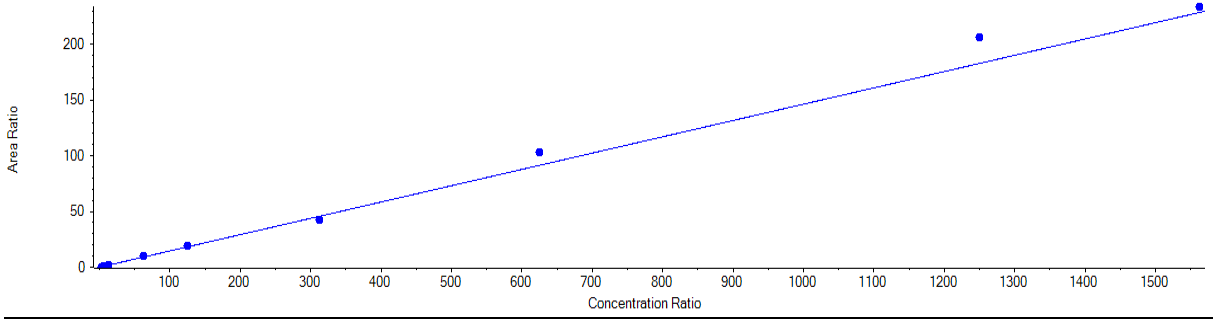
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 7:3FTCA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	4.06	243800	83626	2.343	93.7	0.171	1120	True	1.07
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	4.06	282300	175038	4.235	84.7	0.155	2130	True	1.05
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	4.07	273600	453957	11.334	90.7	0.166	5803	True	1.18
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	4.06	251700	2437617	66.149	105.8	0.194	27616	True	1.31
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	4.07	267500	5129873	130.975	104.8	0.192	25114	True	0.98
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	4.05	269400	11466526	290.703	93.0	0.170	147852	True	1.06
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	4.06	239900	24676376	702.540	112.4	0.206	30005	True	1.26
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	4.07	234300	48312405	1408.433	112.7	0.206	36510	True	1.30
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	4.06	246800	57706533	1596.892	102.2	0.187	22433	True	1.36

Analyte Name: 7:3FTCA
Regression Equation: Y = 0.183 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.015 Avg. RF = 0.183 RSD = 9.911 RSE = 9.911
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

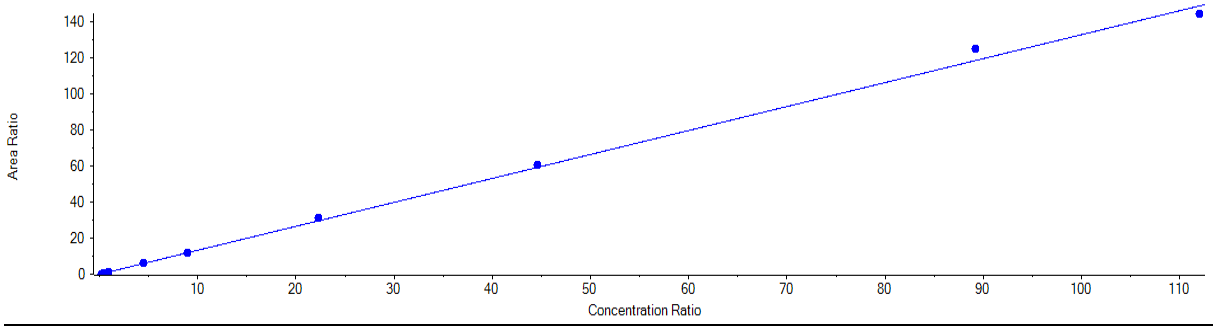
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFEESA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.22	341100	77148	0.170	95.5	3.177	889	True	1.06
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.22	402500	156562	0.292	81.9	2.724	1749	True	1.34
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.23	359800	452001	0.944	105.8	3.521	5182	True	1.00
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.22	337900	2143172	4.764	106.8	3.555	7787	True	0.88
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.23	373200	4413745	8.885	99.6	3.315	50698	True	0.94
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.22	307600	9656667	23.584	105.8	3.520	8576	True	1.37
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.22	319800	19431116	45.649	102.4	3.406	9069	True	1.37
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	2.24	307400	38438538	93.936	105.3	3.505	420262	True	1.35
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.23	333700	48272608	108.678	97.0	3.229	8045	True	1.32

Analyte Name: PFEESA
Regression Equation: Y = 3.328 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.106 Avg. RF = 3.328 RSD = 7.953 RSE = 7.953
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

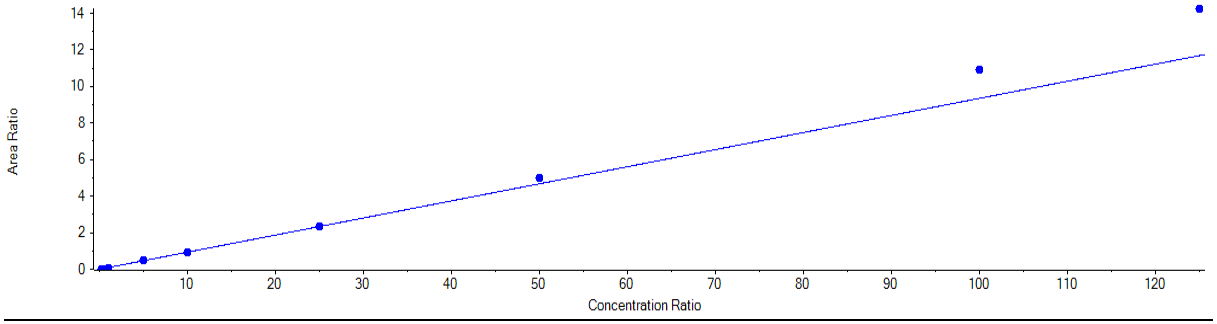
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFMPA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	0.75	1783000	28899	0.173	86.7	0.810	1475	True	1.44
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	0.75	1947000	59828	0.329	82.2	0.768	2612	True	1.19
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	0.76	1892000	154033	0.871	87.1	0.814	3765	True	1.32
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	0.75	1734000	834661	5.149	103.0	0.963	9747	True	1.53
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	0.76	1893000	1710204	9.664	96.6	0.903	11270	True	1.30
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	0.75	1539000	3563990	24.775	99.1	0.926	25560	True	1.16
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	0.75	1447000	7200947	53.220	106.4	0.995	30762	True	1.33
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	0.76	1281000	14008445	117.007	117.0	1.094	26984	True	1.01
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	0.76	1226000	17466472	152.354	121.9	1.139	30658	True	1.45

Analyte Name: PFMPA
Regression Equation: Y = 0.935 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.013 Avg. RF = 0.935 RSD = 13.658 RSE = 13.658
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

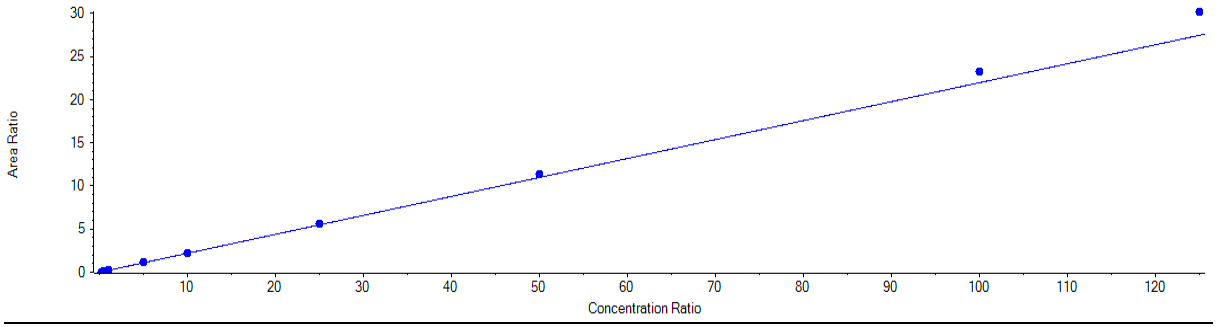
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Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: PFMBA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.44	768100	30422	0.180	90.2	0.990	864	True	1.26
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.44	800800	61803	0.351	87.8	0.965	1900	True	1.29
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.45	779200	168417	0.984	98.4	1.081	4957	True	1.10
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.44	749300	850980	5.170	103.4	1.136	24502	True	1.32
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.45	815400	1781362	9.944	99.4	1.092	24783	True	1.25
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.44	686600	3833878	25.416	101.7	1.117	110252	True	1.21
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.44	685900	7792939	51.721	103.4	1.136	41278	True	1.23
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.45	660500	15351804	105.806	105.8	1.162	47523	True	1.36
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	1.45	629300	18988827	137.357	109.9	1.207	38465	True	1.13

Analyte Name: PFMBA
Regression Equation: Y = 1.098 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.016 Avg. RF = 1.098 RSD = 7.122 RSE = 7.122
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

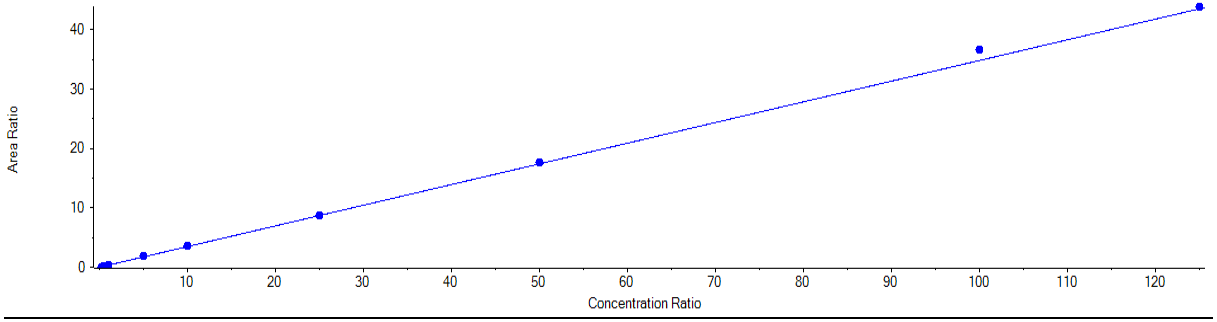
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: NFDHA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.84	341100	23090	0.194	97.1	0.846	362	True	1.30
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.84	402500	47725	0.340	85.1	0.741	723	True	1.10
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.85	359800	121871	0.972	97.2	0.847	1837	True	0.86
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.84	337900	645647	5.483	109.7	0.955	4607	True	1.03
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.85	373200	1325671	10.195	102.0	0.888	6080	True	1.33
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.84	307600	2706957	25.257	101.0	0.880	4184	True	1.10
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.84	319800	5669052	50.880	101.8	0.886	82848	True	1.10
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.86	307400	11291899	105.423	105.4	0.918	164884	True	1.33
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	1.85	333700	14641873	125.933	100.8	0.878	214637	True	1.13

Analyte Name: NFDHA
Regression Equation: Y = 0.871 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.024 Avg. RF = 0.871 RSD = 6.800 RSE = 6.800
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

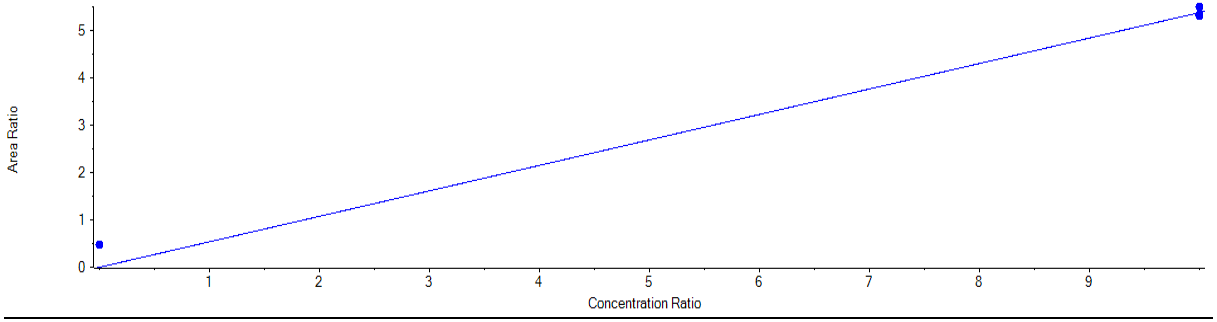
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: TDCA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.66	369000	2030223	10.224	102.2	1.321	9486	True	1.30
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	N/A	373100	N/A	N/A	N/A	N/A	N/A	True	N/A
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.68	351800	168518	0.890	N/A	N/A	1856	True	0.89
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	N/A	335500	N/A	N/A	N/A	N/A	N/A	True	N/A
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.67	376000	1993257	9.851	98.5	1.272	11730	True	1.15
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	N/A	319000	N/A	N/A	N/A	N/A	N/A	True	N/A
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	N/A	317900	N/A	N/A	N/A	N/A	N/A	True	N/A
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	N/A	334800	N/A	N/A	N/A	N/A	N/A	True	N/A
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.66	318900	1703275	9.925	99.3	1.282	6404	True	1.12

Analyte Name: TDCA
Regression Equation: Y = N/A x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = N/A Avg. RF = 1.292 RSD = 1.977 RSE = 0.000
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

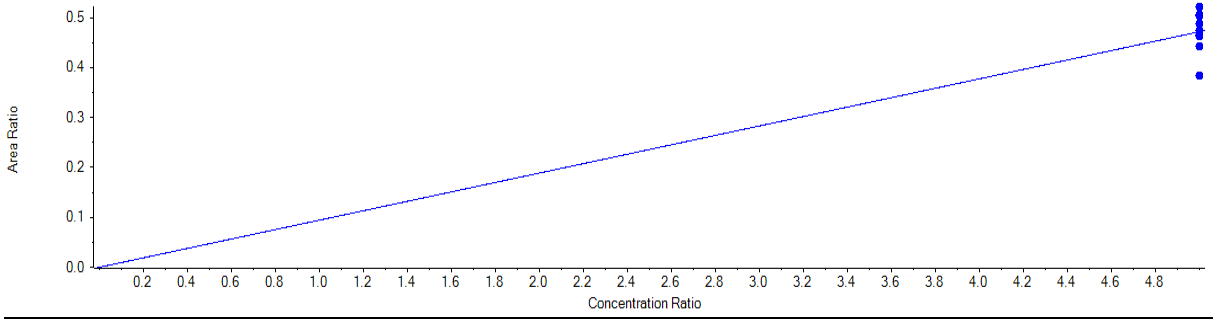
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 13C2D4-4:2FTS

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	1.70	289500	137140	5.022	100.4	0.225	2747	True	1.20
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	1.70	277600	140273	5.357	107.1	0.240	2677	True	0.91
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	1.71	267600	118454	4.693	93.9	0.210	2278	True	0.97
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	1.70	291000	111521	4.063	81.3	0.182	2226	True	1.39
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	1.71	327300	151148	4.895	97.9	0.219	3000	True	1.01
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	1.70	268800	140144	5.528	110.6	0.247	2694	True	0.90
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	1.70	268400	124643	4.923	98.5	0.220	2464	True	0.91
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	1.72	253500	127883	5.347	106.9	0.239	2541	True	0.93
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	1.71	267200	130410	5.174	103.5	0.231	2491	True	0.86

Analyte Name: 13C2D4-4:2FTS
Regression Equation: Y = 0.224 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.008 Avg. RF = 0.224 RSD = 8.794 RSE = 0.000
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

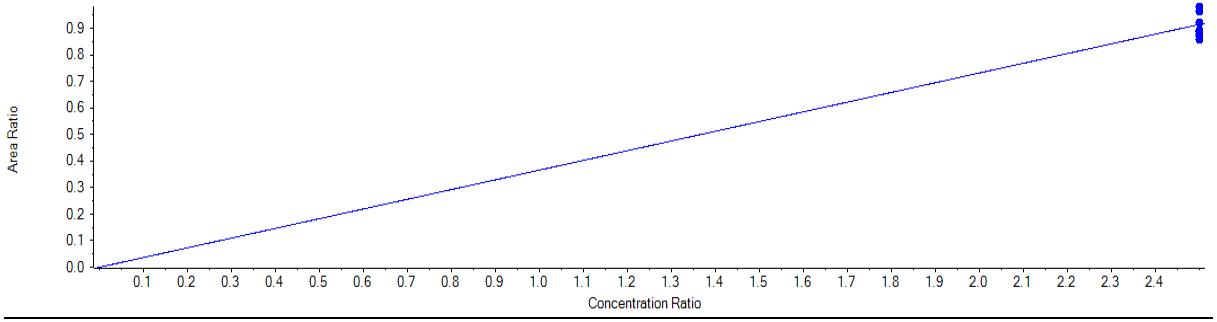
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Generated: 3/3/2025 3:16:24 PM

Acquisition Method	EPA-1633F
Processing Method	EPA1633F_250303.qmethod
Calibration	250303_1633_ICAL

Compound Name: 13C2-PFOA

Sample File	Sample ID	Acquisition Date and Time	RT	IS Peak Area	Peak Area	Calculated Concentration (ng/ml)	Percent Recovery	RRF	Signal to Noise	Used	b/a
SCI09_250303_22.wiff2	IA1633STD-.1	3/3/2025 2:41:55 PM	2.98	363400	356521	2.681	107.2	0.981	4469	True	1.01
SCI09_250303_23.wiff2	IA1633STD-.2	3/3/2025 2:50:49 PM	2.98	335400	328744	2.678	107.1	0.980	4003	True	0.91
SCI09_250303_24.wiff2	IA1633STD-.5	3/3/2025 2:59:43 PM	2.99	349400	307805	2.407	96.3	0.881	3728	True	1.25
SCI09_250303_25.wiff2	IA1633STD-2.5	3/3/2025 3:08:38 PM	2.98	363000	323036	2.432	97.3	0.890	4183	True	0.84
SCI09_250303_26.wiff2	IA1633STD-5	3/3/2025 3:17:32 PM	2.99	400500	368927	2.517	100.7	0.921	4722	True	0.94
SCI09_250303_27.wiff2	IA1633STD-12.5	3/3/2025 3:26:25 PM	2.98	374200	321115	2.345	93.8	0.858	3834	True	1.32
SCI09_250303_28.wiff2	IA1633STD-25	3/3/2025 3:35:19 PM	2.98	325000	288456	2.425	97.0	0.888	3448	True	1.30
SCI09_250303_29.wiff2	IA1633STD-50	3/3/2025 3:44:11 PM	3.00	340600	328767	2.637	105.5	0.965	3757	True	0.85
SCI09_250303_30.wiff2	IA1633STD-62.5	3/3/2025 3:53:07 PM	2.99	383200	333473	2.378	95.1	0.870	4092	True	0.91

Analyte Name: 13C2-PFOA
Regression Equation: Y = 0.915 x (r = N/A r^2 = N/A) (Weighting: None)
STD Dev. = 0.019 Avg. RF = 0.915 RSD = 5.320 RSE = 0.000
Calibration type: Average RF



Initial Calibration Report

SCIEX OS Version 3.3.1.43

Alpha Analytical Inc.
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2
Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Analyte	Expected Ratio	Lower Limt	Upper Limt	NIS Analyte	AVG. NIS Area
PFBA	N/A	N/A	N/A	13C3-PFBA	724677
PFPeA	N/A	N/A	N/A	13C2-PFHxA	405177
PFHxA	0.081	0.0405	0.1215	13C4-PFOA	359411
PFHpA	0.373	0.1865	0.5595	13C5-PFNA	257604
PFOA	0.424	0.212	0.636	13C2-PFDA	265799
PFNA	0.493	0.2465	0.7395	18O2-PFHxS	278984
PFDA	0.188	0.094	0.282	13C4-PFOS	288522
PFUnA	0.146	0.073	0.219	N/A	N/A
PFDoA	0.142	0.071	0.213	N/A	N/A
PFTrDA	0.152	0.076	0.228	N/A	N/A
PFTeDA	0.154	0.077	0.231	N/A	N/A
PFBS	0.374	0.187	0.561	N/A	N/A
PFPeS	0.314	0.157	0.471	N/A	N/A
PFHxS	0.306	0.153	0.459	N/A	N/A
PFHpS	0.316	0.158	0.474	N/A	N/A
PFOS	0.244	0.122	0.366	N/A	N/A
PFNS	0.294	0.147	0.441	N/A	N/A
PFDS	0.29	0.145	0.435	N/A	N/A
PFDoS	0.256	0.128	0.384	N/A	N/A
4:2FTS	0.65	0.325	0.975	N/A	N/A
6:2FTS	0.62	0.31	0.93	N/A	N/A
8:2FTS	0.676	0.338	1.014	N/A	N/A
PFOSA	0.026	0.013	0.039	N/A	N/A
NMeFOSA	1.377	0.6885	2.0655	N/A	N/A
NEtFOSA	1.292	0.646	1.938	N/A	N/A
NMeFOSAA	0.697	0.3485	1.0455	N/A	N/A
NEtFOSAA	0.557	0.2785	0.8355	N/A	N/A
NMeFOSE	N/A	N/A	N/A	N/A	N/A
NEtFOSE	N/A	N/A	N/A	N/A	N/A
HFPO-DA	0.501	0.2505	0.7515	N/A	N/A
ADONA	0.691	0.3455	1.0365	N/A	N/A
9Cl-PF3ONS	0.332	0.166	0.498	N/A	N/A
11Cl-PF3OUdS	0.322	0.161	0.483	N/A	N/A
3:3FTCA	1.01	0.505	1.515	N/A	N/A
5:3FTCA	1.017	0.5085	1.5255	N/A	N/A
7:3FTCA	1.343	0.6715	2.0145	N/A	N/A
PFEESA	0.081	0.0405	0.1215	N/A	N/A
PFMPA	N/A	N/A	N/A	N/A	N/A
PFMBA	N/A	N/A	N/A	N/A	N/A
NFDHA	0.681	0.3405	1.0215	N/A	N/A
TDCA	5.68	2.84	8.52	N/A	N/A

Initial Calibration Report

SCIEX OS Version 3.3.1.43

Alpha Analytical Inc.
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2
Last Altered: 3/4/2025 6:49:27 AM
Generated: 3/3/2025 3:16:24 PM

Method:	EPA-1633F
ICAL:	ICAL22044
Workgroup:	WG2035972
Date:	3/3/2025

Type	Name	IA1633FSTD-.1	IA1633FSTD-.2	IA1633FSTD-.5	IA1633FSTD-2.5	IA1633FSTD-5	IA1633FSTD-12.5	IA1633FSTD-25	IA1633FSTD-50	IA1633FSTD-62.5	AVG RF	RSD
EIS	13C4-PFBA	1.09	1.25	1.196	1.068	1.121	1.068	1.129	1.157	1.087	1.130	5.467
EIS	13C5-PFPeA	0.867	1.012	0.913	0.898	0.858	0.875	0.899	0.968	0.842	0.903	6.07
EIS	13C5-PFHxA	0.77	1.017	0.843	0.81	0.785	0.784	0.838	0.901	0.893	0.849	9.229
EIS	13C4-PFHpA	0.756	0.801	0.869	0.762	0.807	0.725	0.815	0.983	0.853	0.819	9.368
EIS	13C8-PFOA	1.614	1.883	1.88	1.628	1.548	1.524	1.766	1.553	1.408	1.645	9.995
EIS	13C9-PFNA	0.944	1.124	1.037	0.919	0.93	1.041	1.03	1.002	0.958	0.998	6.71
EIS	13C6-PFDA	1.016	1.264	1.181	1.007	1.002	0.964	1.027	1.16	1.023	1.071	9.603
EIS	13C7-PFUnA	1.183	1.384	1.337	1.109	1.138	1.101	1.112	1.183	1.09	1.182	9.065
EIS	13C2-PFDoA	1.08	1.281	1.272	1.095	1.122	1.105	1.237	1.275	1.234	1.189	7.247
EIS	13C2-PFTeDA	0.695	0.831	0.806	0.696	0.752	0.684	0.778	0.885	0.811	0.771	9.037
EIS	13C3-PFBS	1.261	1.373	1.523	1.179	1.191	1.276	1.276	1.234	1.1	1.268	9.63
EIS	13C3-PFHxS	1.165	1.177	1.191	1.048	1.043	1.155	1.099	1.187	1.075	1.127	5.363
EIS	13C8-PFOS	1.297	1.284	1.197	1.11	1.23	1.085	1.157	1.234	1.138	1.193	6.279
EIS	13C2-4:2FTS	0.176	0.187	0.194	0.169	0.165	0.175	0.198	0.209	0.21	0.187	8.931
EIS	13C2-6:2FTS	0.146	0.156	0.157	0.138	0.149	0.16	0.162	0.193	0.19	0.161	11.486
EIS	13C2-8:2FTS	0.126	0.17	0.167	0.13	0.143	0.15	0.172	0.214	0.191	0.163	17.555
EIS	13C8-PFOSA	1.911	1.994	1.975	1.74	1.903	1.745	1.933	1.982	1.864	1.894	5.06
EIS	d3-NMeFOSA	0.341	0.366	0.346	0.314	0.353	0.309	0.336	0.363	0.345	0.342	5.718
EIS	d5-NEtFOSA	0.312	0.328	0.313	0.279	0.323	0.284	0.313	0.323	0.322	0.311	5.689
EIS	d3-NMeFOSAA	N/A	0.242	0.244	0.211	0.272	0.209	0.238	0.234	0.224	0.234	8.677
EIS	d5-NEtFOSAA	N/A	0.194	0.187	0.173	0.184	0.172	0.19	0.205	0.194	0.187	5.973
EIS	d7-NMeFOSE	0.241	0.257	0.251	0.232	0.255	0.226	0.248	0.255	0.243	0.246	4.372
EIS	d9-NEtFOSE	0.34	0.349	0.345	0.309	0.34	0.303	0.328	0.335	0.321	0.330	4.833
EIS	13C3-HFPO-DA	0.844	0.965	0.87	0.889	0.853	0.856	0.903	0.983	0.915	0.898	5.521
NIS	13C3-PFBA	1.128	1.075	1.092	1.12	1.165	0.994	0.884	0.764	0.778	1.000	15.428
NIS	13C2-PFHxA	1.093	0.976	1.053	1.03	1.173	0.969	0.941	0.842	0.922	1.000	9.874
NIS	13C4-PFOA	1.011	0.933	0.972	1.01	1.114	1.041	0.904	0.948	1.066	1.000	6.759
NIS	13C5-PFNA	1.003	0.975	1.024	1.064	1.117	1.004	0.905	0.908	1.001	1.000	6.757
NIS	13C2-PFDA	1.087	0.947	0.973	1.055	1.14	1.021	0.955	0.888	0.933	1.000	8.155
NIS	18O2-PFHxS	1.038	0.995	0.959	1.043	1.173	0.963	0.962	0.909	0.958	1.000	7.734
NIS	13C4-PFOS	0.986	1.007	1.018	1.047	1.059	1.019	0.952	0.94	0.971	1.000	4.095

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

ID: IA1633STD-.1
Name: SCI09_250303_22.wiff2
Date & Time: 2025-03-03T14:41:55
Description: WG2035972,,EPA1633F_250228_CAL_L1
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:JW

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.59	213.0 / 169.0	61301	M4	0.385	N/A	N/A	N/A	96.2
2	PFPeA	2706-90-3	1.18	263.0 / 219.0	26916		0.183	0.010	N/A	N/A	91.3
3	PFPeA_2	2706-90-3	1.18	263.0 / 68.9	259	M4	0.251	0.010	N/A	N/A	125.4
4	PFHxA	307-24-4	1.92	313.0 / 269.0	18390		0.105	0.092	0.081	Pass	105.3
5	PFHxA_2	307-24-4	1.92	313.0 / 119.0	1687	M2	0.114	0.092	0.081	Pass	113.5
6	PFHpA	375-85-9	2.50	363.1 / 319.0	19125		0.098	0.391	0.373	Pass	98.4
7	PFHpA_2	375-85-9	2.49	363.1 / 169.0	7472		0.097	0.391	0.373	Pass	97.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	2.99	413.1 / 369.1	21875	M5	0.109	0.415	0.424	Pass	109.1
9	PFOA_2	335-67-1	2.98	413.1 / 169.0	9075	M5	0.107	0.415	0.424	Pass	106.9
10	PFNA	375-95-1	3.43	462.8 / 418.9	13249	M5	0.101	0.441	0.493	Pass	100.7
11	PFNA_2	375-95-1	3.43	462.8 / 219.0	5845	M5	0.091	0.441	0.493	Pass	91.3
12	PFDA	335-76-2	3.85	513.1 / 469.1	19483		0.094	0.199	0.188	Pass	93.9
13	PFDA_2	335-76-2	3.86	513.1 / 219.0	3872		0.101	0.199	0.188	Pass	101.3
14	PFUnA	2058-94-8	4.26	563.1 / 519.1	20821		0.090	0.129	0.146	Pass	89.9
15	PFUnA_2	2058-94-8	4.26	563.1 / 269.0	2682		0.081	0.129	0.146	Pass	80.6
16	PFDoA	307-55-1	4.65	613.1 / 569.1	24385		0.103	0.146	0.142	Pass	103.3
17	PFDoA_2	307-55-1	4.65	613.1 / 319.0	3563		0.110	0.146	0.142	Pass	109.6
18	PFTrDA	72629-94-8	5.03	663.1 / 619.1	19883		0.096	0.147	0.152	Pass	95.9
19	PFTrDA_2	72629-94-8	5.03	663.1 / 169.0	2930		0.092	0.147	0.152	Pass	92.0
20	PFTeDA	376-06-7	5.39	713.1 / 669.1	16734		0.092	0.200	0.154	Pass	91.7
21	PFTeDA_2	376-06-7	5.39	713.1 / 169.0	3351		0.112	0.200	0.154	Pass	112.4
22	PFBS	375-73-5	1.92	299.1 / 80.1	15126	M4	0.092	0.287	0.374	Pass	103.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.92	299.1 / 99.1	4345		0.076	0.287	0.374	Pass	81.1
24	PFPeS	2706-91-4	2.56	349.1 / 80.1	12916		0.080	0.286	0.314	Pass	85.2
25	PFPeS_2	2706-91-4	2.56	349.1 / 99.1	3697		0.073	0.286	0.314	Pass	77.6
26	PFHxS	355-46-4	3.09	399.1 / 80.1	14015	M5	0.095	0.236	0.306	Pass	104.5
27	PFHxS_2	355-46-4	3.09	399.1 / 99.1	3307	M5	0.078	0.236	0.306	Pass	85.2
28	PFHpS	375-92-8	3.56	449.1 / 80.1	12571		0.087	0.305	0.316	Pass	91.5
29	PFHpS_2	375-92-8	3.56	449.1 / 99.1	3836		0.087	0.305	0.316	Pass	91.3
30	PFOS	1763-23-1	4.00	499.1 / 80.1	18519	M5	0.105	0.252	0.244	Pass	113.2
31	PFOS_2	1763-23-1	4.00	499.1 / 99.1	4669	M5	0.106	0.252	0.244	Pass	113.6
32	PFNS	68259-12-1	4.41	549.1 / 80.1	9312		0.078	0.300	0.294	Pass	81.0
33	PFNS_2	68259-12-1	4.41	549.1 / 99.1	2794		0.082	0.300	0.294	Pass	85.0
34	PFDS	335-77-3	4.81	599.1 / 80.1	10126		0.086	0.258	0.290	Pass	89.7
35	PFDS_2	335-77-3	4.81	599.1 / 99.1	2609		0.079	0.258	0.290	Pass	81.8
36	PFDoS	79780-39-5	5.55	699.2 / 80.1	8920		0.083	0.287	0.256	Pass	85.8
37	PFDoS_2	79780-39-5	5.55	699.2 / 99.1	2558		0.093	0.287	0.256	Pass	95.5

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.71	327.1 / 307.1	10859		0.328	0.657	0.650	Pass	87.3
39	4:2FTS_2	757124-72-4	1.71	327.1 / 81.1	7132		0.333	0.657	0.650	Pass	88.9
40	6:2FTS	27619-97-2	2.80	427.2 / 407.2	10691		0.373	0.601	0.620	Pass	98.2
41	6:2FTS_2	27619-97-2	2.80	427.2 / 81.1	6422		0.350	0.601	0.620	Pass	92.0
42	8:2FTS	39108-34-4	3.67	527.2 / 507.2	7732		0.378	0.860	0.676	Pass	98.4
43	8:2FTS_2	39108-34-4	3.67	527.2 / 81.1	6646		0.472	0.860	0.676	Pass	122.9
44	PFOSA	754-91-6	5.23	498.1 / 78.1	17024	M5	0.094	0.038	0.026	Pass	93.9
45	PFOSA_2	754-91-6	5.23	498.1 / 478.0	648	M2	0.138	0.038	0.026	Pass	138.3
46	NMeFOSA	31506-32-8	5.97	512.2 / 219.0	4334	M5	0.096	1.330	1.377	Pass	95.7
47	NMeFOSA_2	31506-32-8	5.93	512.2 / 169.0	5766	M5	0.092	1.330	1.377	Pass	91.6
48	NEtFOSA	4151-50-2	6.27	526.2 / 219.0	4656	M5	0.103	1.149	1.292	Pass	103.4
49	NEtFOSA_2	4151-50-2	6.23	526.2 / 169.0	5349	M5	0.095	1.149	1.292	Pass	95.2
50	NMeFOSAA	2355-31-9	N/A	570.2 / 419.1	N/A		N/A	N/A	0.697	N/A	N/A
51	NMeFOSAA_2	2355-31-9	N/A	570.2 / 483.0	N/A		N/A	N/A	0.697	N/A	N/A
52	NEtFOSAA	2991-50-6	N/A	584.2 / 419.1	N/A		N/A	N/A	0.557	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	N/A	584.2 / 526.2	N/A		N/A	N/A	0.557	N/A	N/A
54	NMeFOSE	24448-09-7	5.84	616.1 / 58.9	60101	M5	0.927	N/A	N/A	N/A	92.7
55	NEtFOSE	1691-99-2	6.14	630.0 / 58.9	86403	M5	0.909	N/A	N/A	N/A	90.9
56	HFPO-DA	13252-13-6	2.13	285.0 / 169.0	54738		0.361	0.572	0.501	Pass	90.4
57	HFPO-DA_2	13252-13-6	2.13	285.0 / 184.9	31322		0.392	0.572	0.501	Pass	98.1
58	ADONA	919005-14-4	2.68	376.9 / 251.0	114160		0.398	0.653	0.691	Pass	105.4
59	ADONA_2	919005-14-4	2.68	376.9 / 84.8	74501		0.392	0.653	0.691	Pass	103.8
60	9Cl-PF3ONS	756426-58-1	4.28	530.8 / 351.1	105849		0.353	0.312	0.332	Pass	94.7
61	9Cl-PF3ONS_2	756426-58-1	4.28	532.8 / 353.0	32977		0.331	0.312	0.332	Pass	88.7
62	11Cl-PF3OUdS	763051-92-9	5.07	630.9 / 451.0	91599		0.361	0.323	0.322	Pass	95.9
63	11Cl-PF3OUdS_2	763051-92-9	5.07	632.9 / 452.9	29595		0.364	0.323	0.322	Pass	96.5
64	3:3FTCA	356-02-5	1.56	241.1 / 177.1	5496		0.483	1.026	1.010	Pass	96.6
65	3:3FTCA_2	356-02-5	1.56	241.1 / 117.0	5638	M4	0.456	1.026	1.010	Pass	91.2
66	5:3FTCA	914637-49-3	3.03	341.1 / 237.1	101733		2.329	1.016	1.017	Pass	93.2
67	5:3FTCA_2	914637-49-3	3.03	341.1 / 217.0	103379		2.349	1.016	1.017	Pass	93.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.06	441.1 / 316.9	83626		2.343	1.499	1.343	Pass	93.7
69	7:3FTCA_2	812-70-4	4.06	441.1 / 337.1	125338		2.656	1.499	1.343	Pass	106.3
70	PFEESA	113507-82-7	2.22	315.1 / 135.0	77148		0.170	0.086	0.081	Pass	95.5
71	PFEESA_2	113507-82-7	2.22	315.1 / 82.9	6615		0.177	0.086	0.081	Pass	99.5
72	PFMPA	377-73-1	0.75	229.0 / 85.0	28899		0.173	N/A	N/A	N/A	86.7
73	PFMBA	863090-89-5	1.44	279.0 / 85.0	30422		0.180	N/A	N/A	N/A	90.2
74	NFDHA	151772-58-6	1.84	295.0 / 201.0	23090		0.194	0.749	0.681	Pass	97.1
75	NFDHA_2	151772-58-6	1.84	295.0 / 84.9	17304		0.206	0.749	0.681	Pass	102.9
76	TDCA	516-50-7	2.66	499.1 / 124.1	2030223		10.224	5.621	5.680	Pass	102.2
77	TDCA_2	516-50-7	2.66	499.1 / 79.9	11411440		10.201	5.621	5.680	Pass	102.0
78	13C2D4-4:2FTS	Surr	1.70	333.2 / 312.1	137140		5.022	N/A	N/A	N/A	100.4
79	13C2-PFOA	Surr	2.98	415.0 / 370.0	356521		2.681	N/A	N/A	N/A	107.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.59	217.0 / 172.0	1782845		9.650	NA	NA	NA	96.5

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.17	268.0 / 223.0	768075		4.801	NA	NA	NA	96.0
	13C5-PFHxA	EIS	1.91	318.0 / 273.0	341080		2.268	NA	NA	NA	90.7
	13C4-PFHpA	EIS	2.49	367.0 / 322.0	334871		2.308	NA	NA	NA	92.3
	13C8-PFOA	EIS	2.98	420.8 / 376.0	586696		2.454	NA	NA	NA	98.1
	13C9-PFNA	EIS	3.43	472.0 / 427.0	243815		1.182	NA	NA	NA	94.6
	13C6-PFDA	EIS	3.85	519.0 / 474.0	293509		1.185	NA	NA	NA	94.8
	13C7-PFUnA	EIS	4.25	570.0 / 525.0	341770		1.251	NA	NA	NA	100.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.64	615.1 / 570.0	312132		1.135	NA	NA	NA	90.8
	13C2-PFTeDA	EIS	5.39	715.1 / 670.1	200793		1.126	NA	NA	NA	90.1
	13C3-PFBS	EIS	1.91	302.1 / 80.1	358768		2.316	NA	NA	NA	99.4
	13C3-PFHxS	EIS	3.09	402.1 / 80.1	337191		2.449	NA	NA	NA	103.3
	13C8-PFOS	EIS	4.00	507.1 / 80.1	368968		2.610	NA	NA	NA	108.7
	13C2-4:2FTS	EIS	1.71	329.1 / 81.1	101025		4.423	NA	NA	NA	94.3
	13C2-6:2FTS	EIS	2.80	429.2 / 81.1	84764		4.310	NA	NA	NA	90.5
	13C2-8:2FTS	EIS	3.67	529.2 / 81.1	73785		3.706	NA	NA	NA	77.2

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.23	506.1 / 78.1	566057		2.522	NA	NA	NA	100.9
d3-NMeFOSA	EIS	5.96	515.2 / 219.0	100981		2.492	NA	NA	NA	99.7
d5-NEtFOSA	EIS	6.25	531.2 / 219.0	92406		2.507	NA	NA	NA	100.3
d3-NMeFOSAA	EIS	N/A	573.2 / 419.1	N/A		N/A	NA	NA	NA	N/A
d5-NEtFOSAA	EIS	N/A	589.3 / 419.1	N/A		N/A	NA	NA	NA	N/A
d7-NMeFOSE	EIS	5.82	623.2 / 58.9	715452		24.542	NA	NA	NA	98.2
d9-NEtFOSE	EIS	6.11	639.2 / 58.9	1006068		25.726	NA	NA	NA	102.9

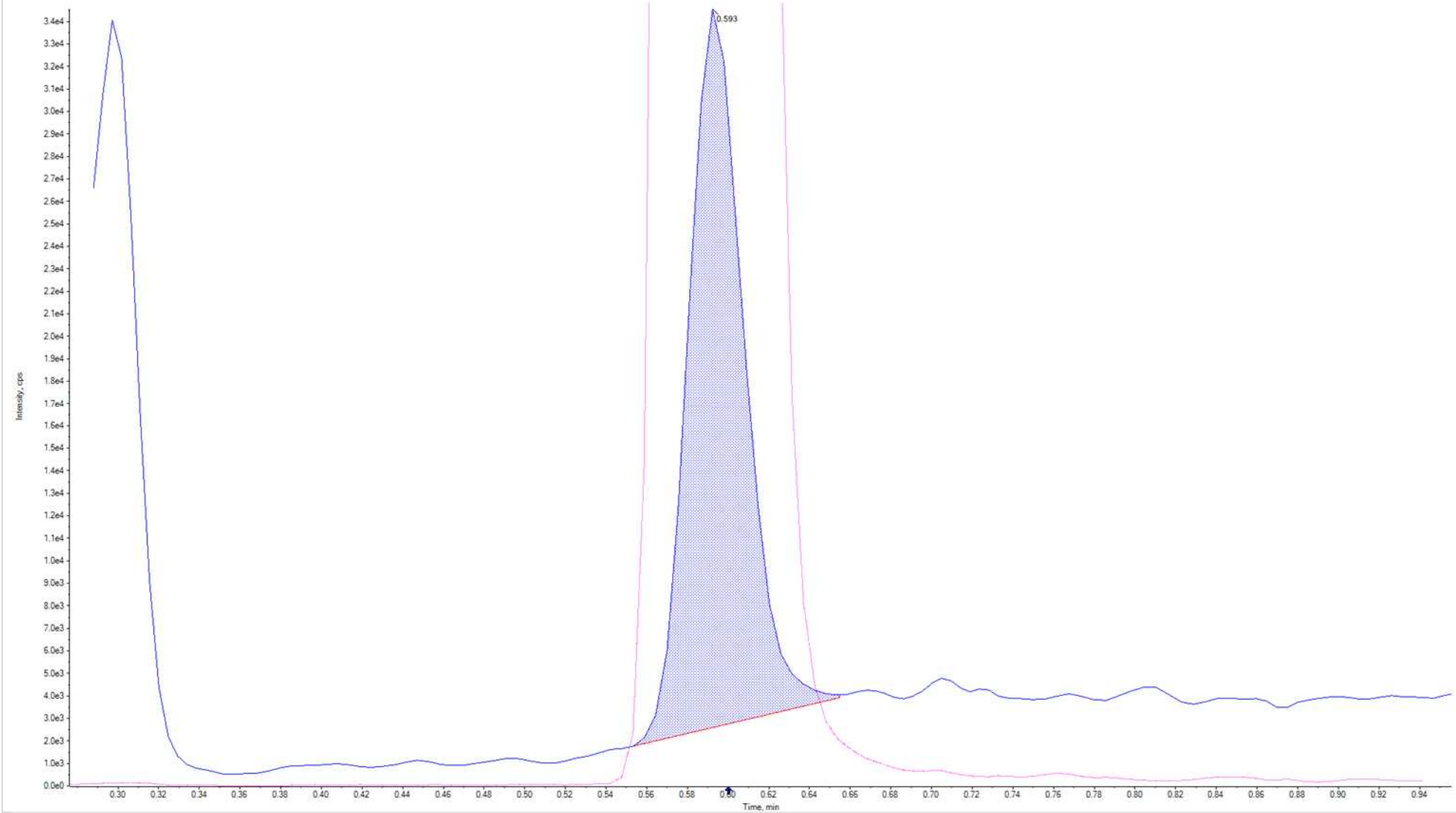
	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.12	287.0 / 169.0	1494620		9.395	NA	NA	NA	93.9
	13C3-PFBA	NIS	0.59	216.0 / 172.0	817448		5.640	NA	NA	NA	112.8
	13C2-PFHxA	NIS	1.91	315.0 / 270.0	442905		2.733	NA	NA	NA	109.3
	13C4-PFOA	NIS	2.98	417.0 / 372.0	363405		2.528	NA	NA	NA	101.1
	13C5-PFNA	NIS	3.43	468.0 / 423.0	258372		1.254	NA	NA	NA	100.3
	13C2-PFDA	NIS	3.85	515.1 / 470.1	288995		1.359	NA	NA	NA	108.7
	18O2-PFHxS	NIS	3.09	403.1 / 84.1	289505		2.459	NA	NA	NA	103.8
	13C4-PFOS	NIS	4.00	503.1 / 80.1	284416		2.366	NA	NA	NA	98.6

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

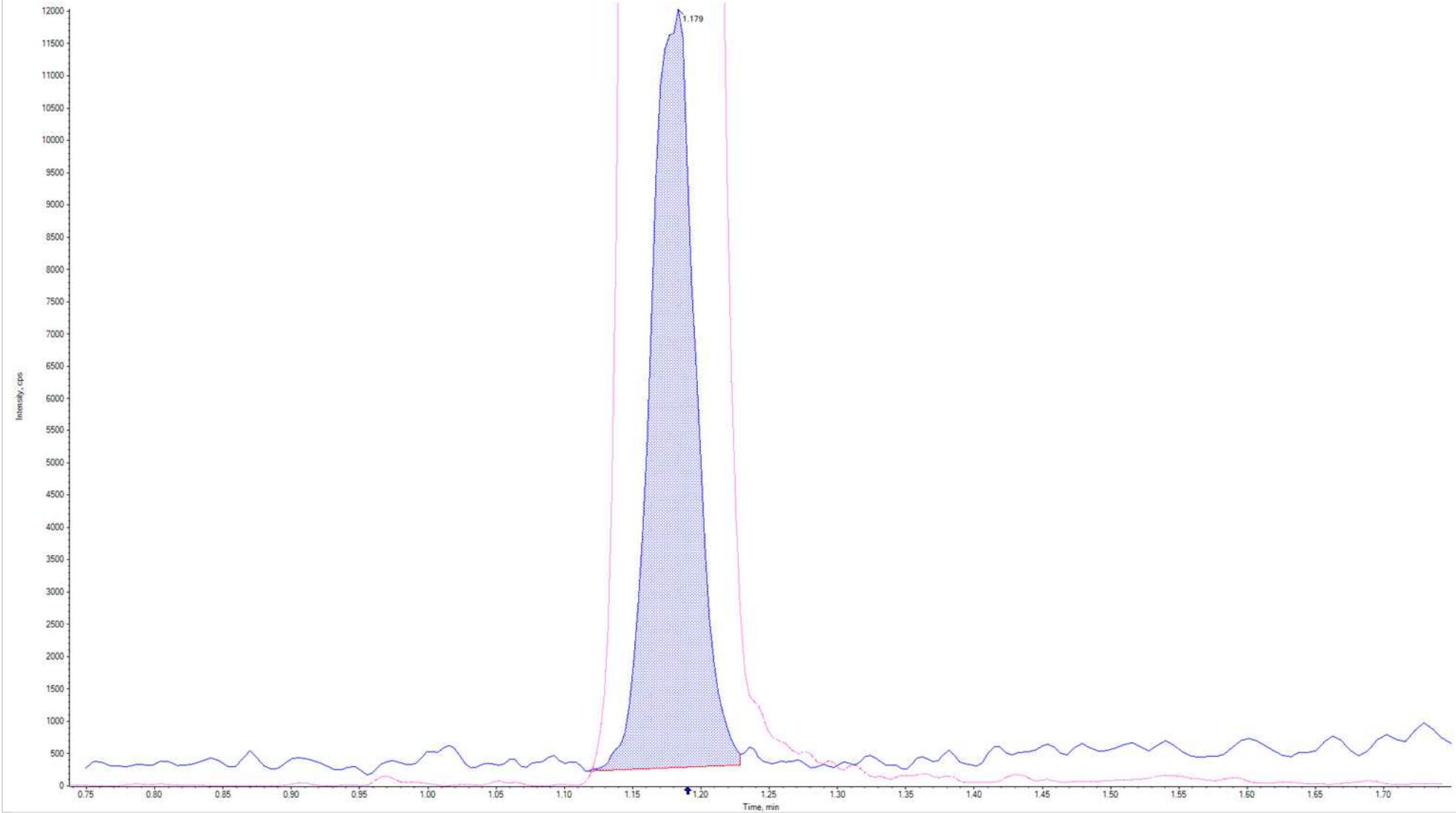
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Alpha Analytical LLC
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PFBA
Sample: IA1633STD-.1 S/N:201.1 Points Across peak:21



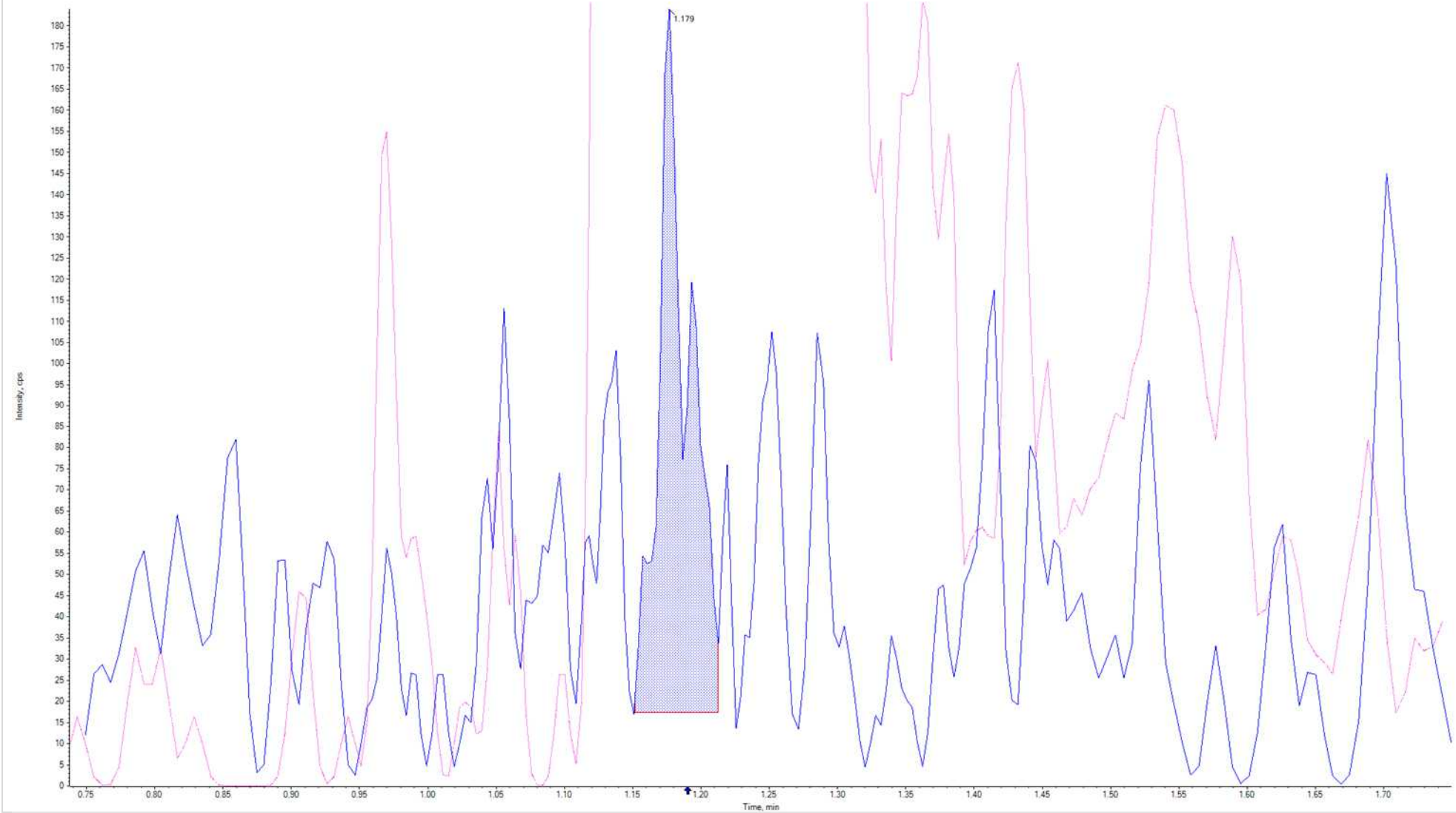
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PFPeA
Sample: IA1633STD-.1 S/N:317.6 Points Across peak:37



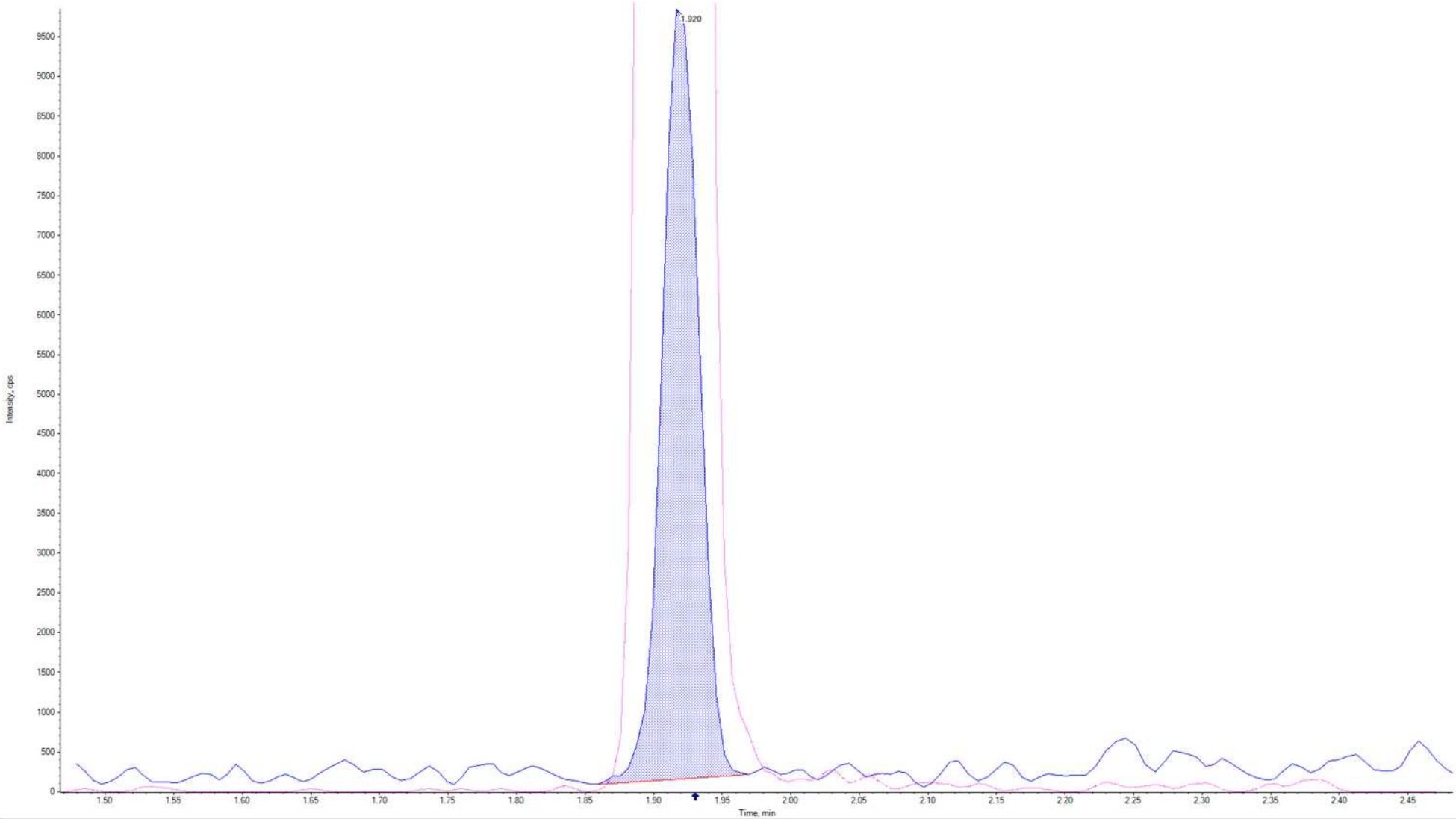
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Alpha Analytical LLC
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PFPeA_2
Sample: IA1633STD-.1 S/N:10.0 Points Across peak:20



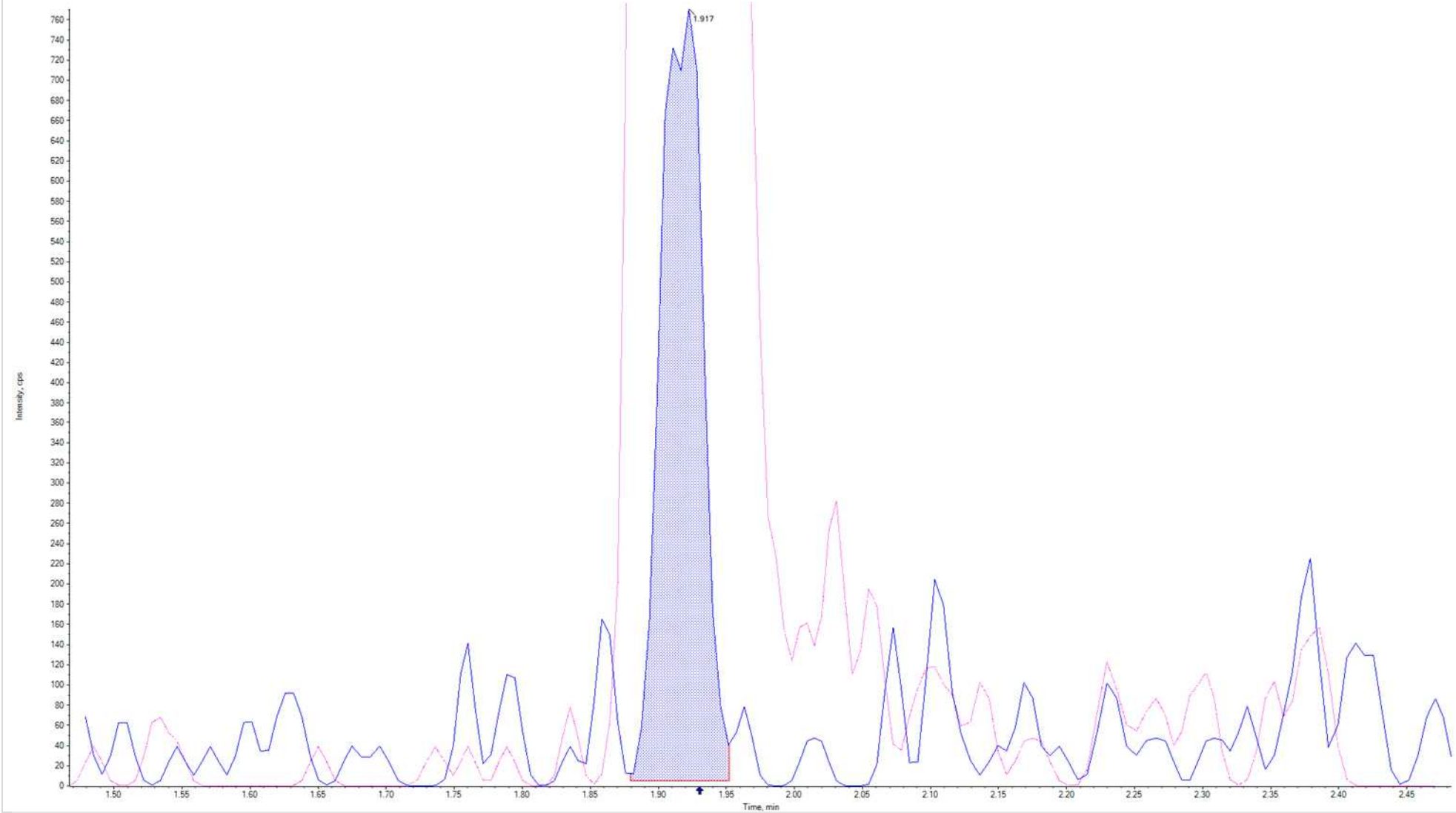
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PFHxA
Sample: IA1633STD-.1 S/N:242.9 Points Across peak:20



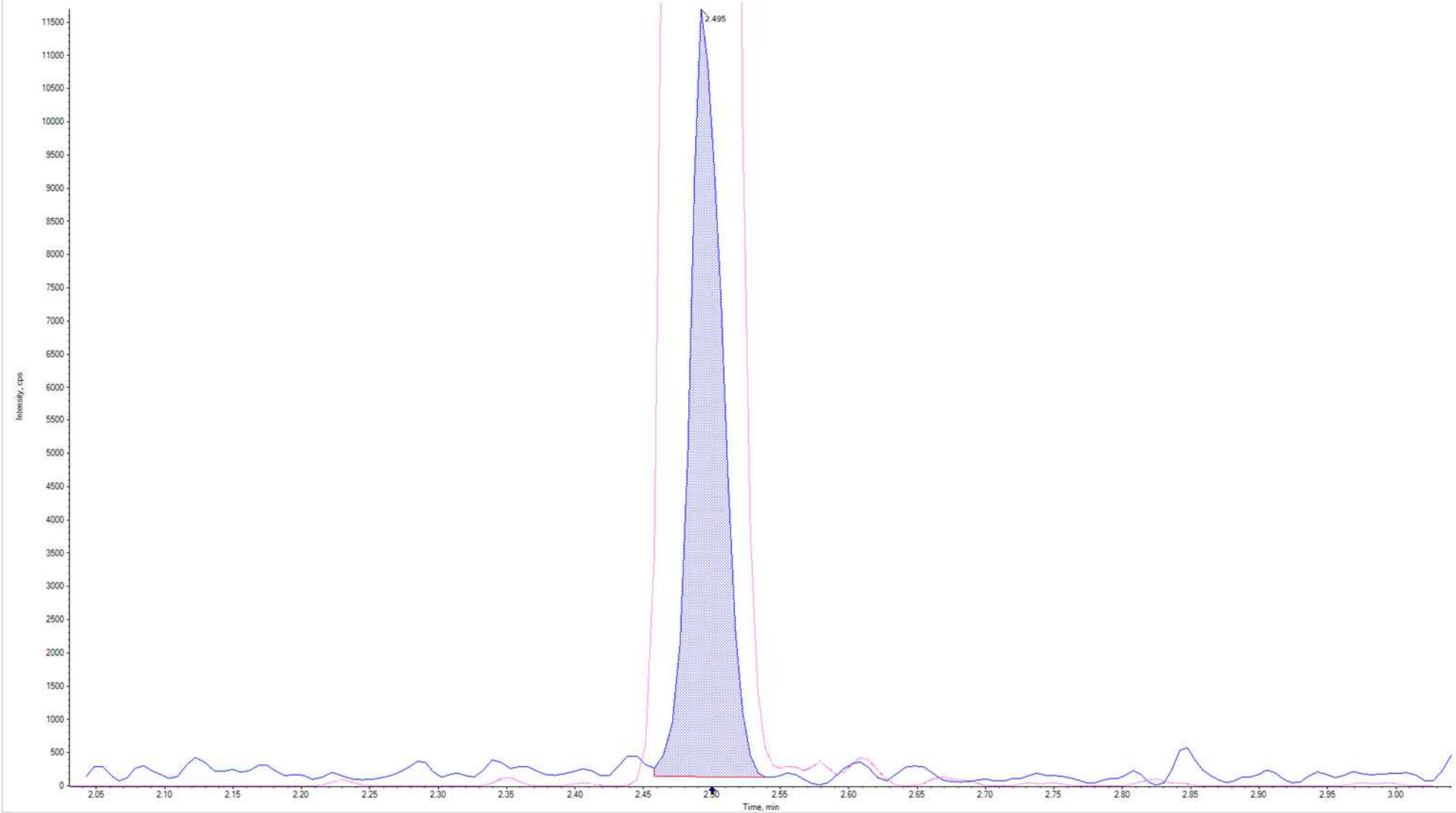
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PFHxA_2
Sample: IA1633STD-.1 S/N:19.2 Points Across peak:15



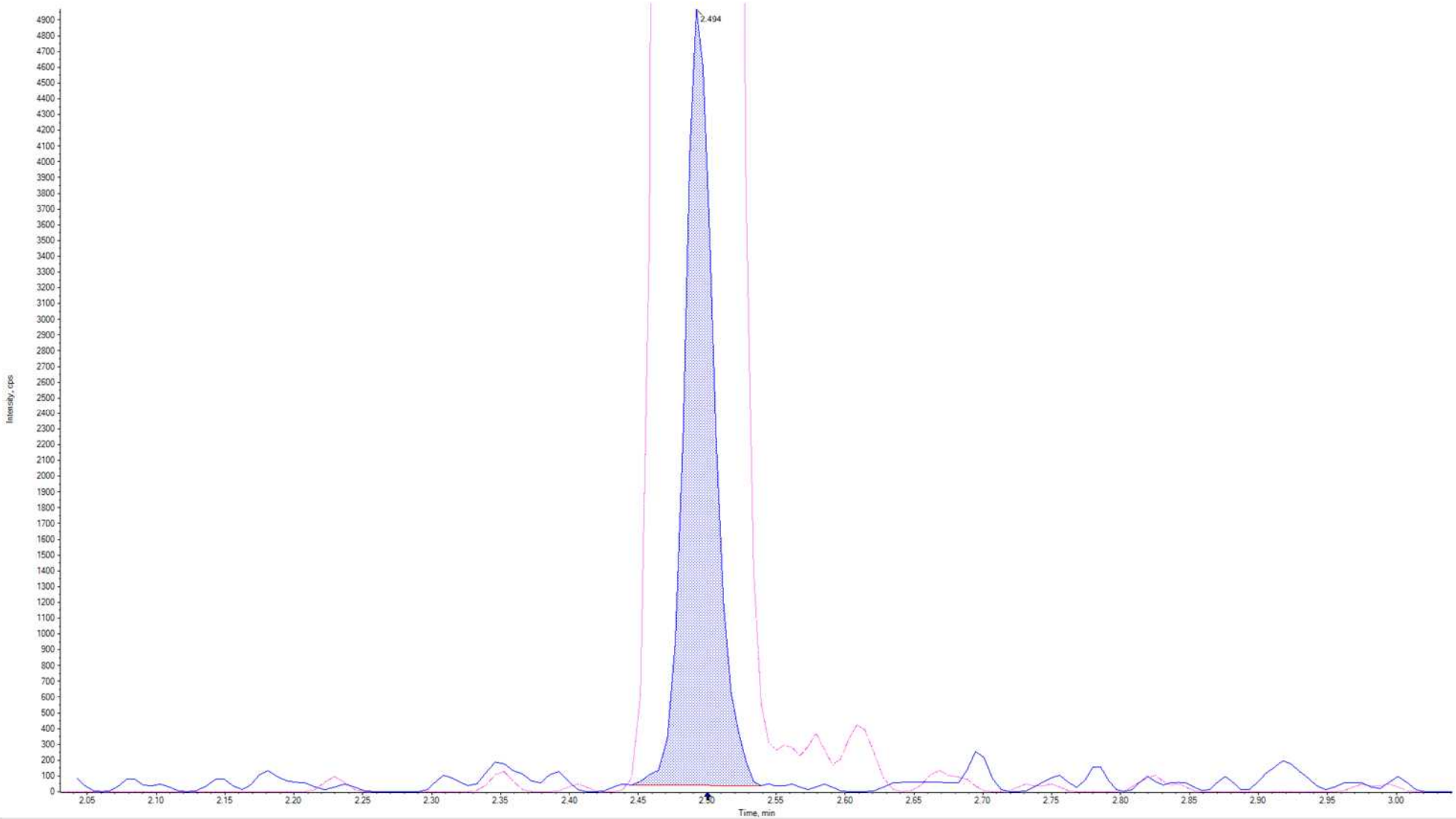
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PFHpA
Sample: IA1633STD-.1 S/N:231.7 Points Across peak:16



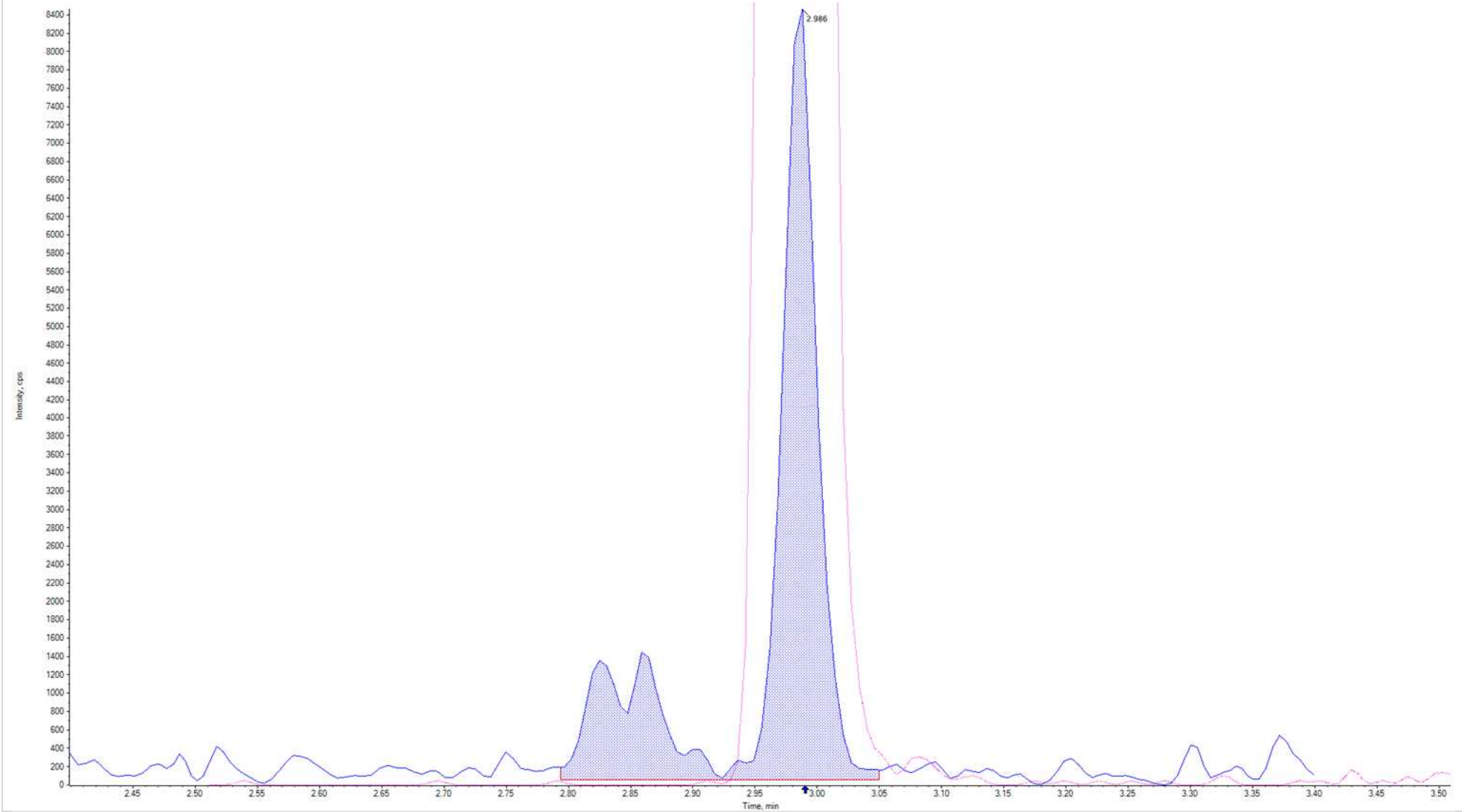
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PFHpA_2
Sample: IA1633STD-.1 S/N:98.8 Points Across peak:18



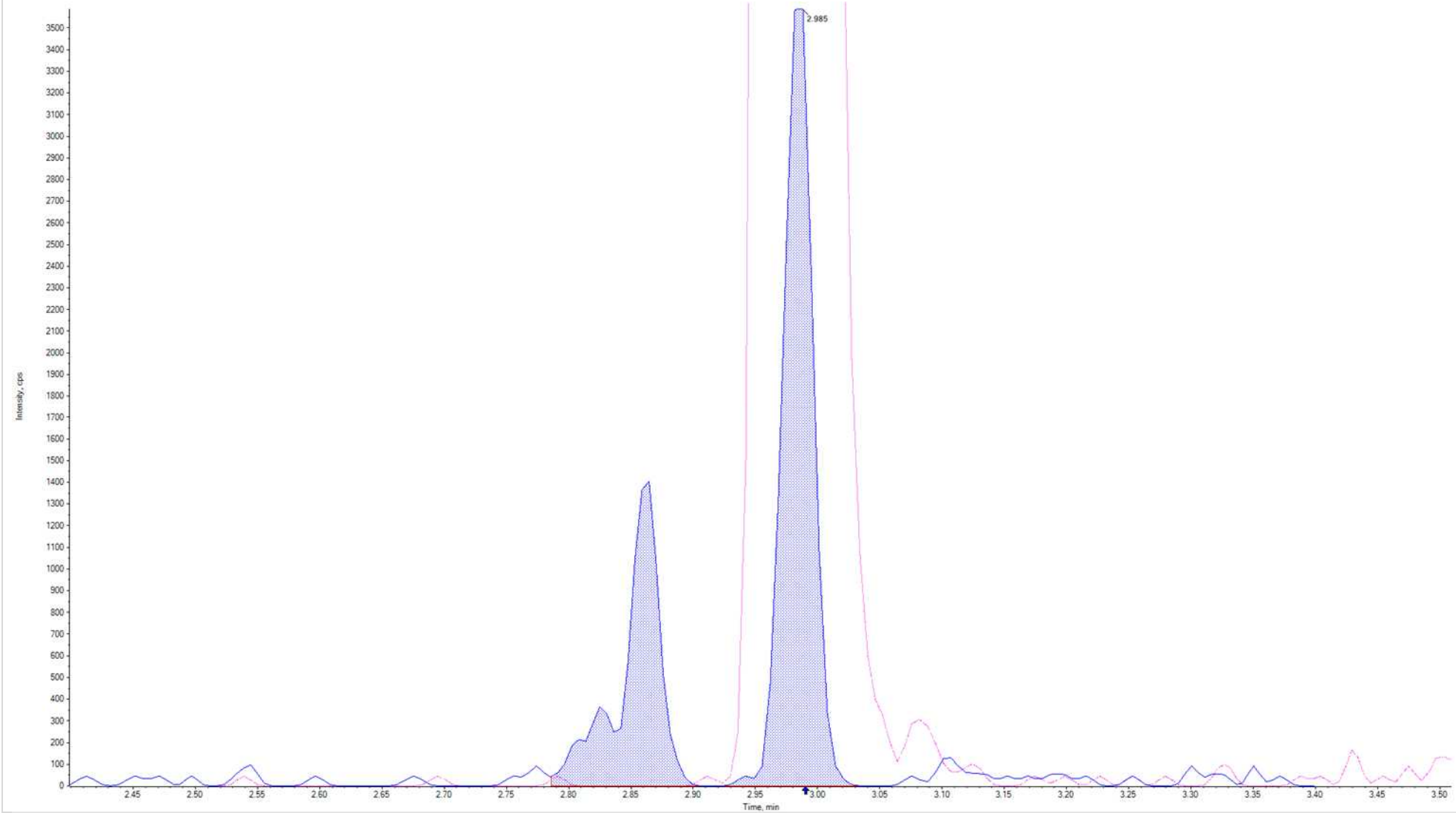
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PFOA
Sample: IA1633STD-.1 S/N:108.5 Points Across peak:44



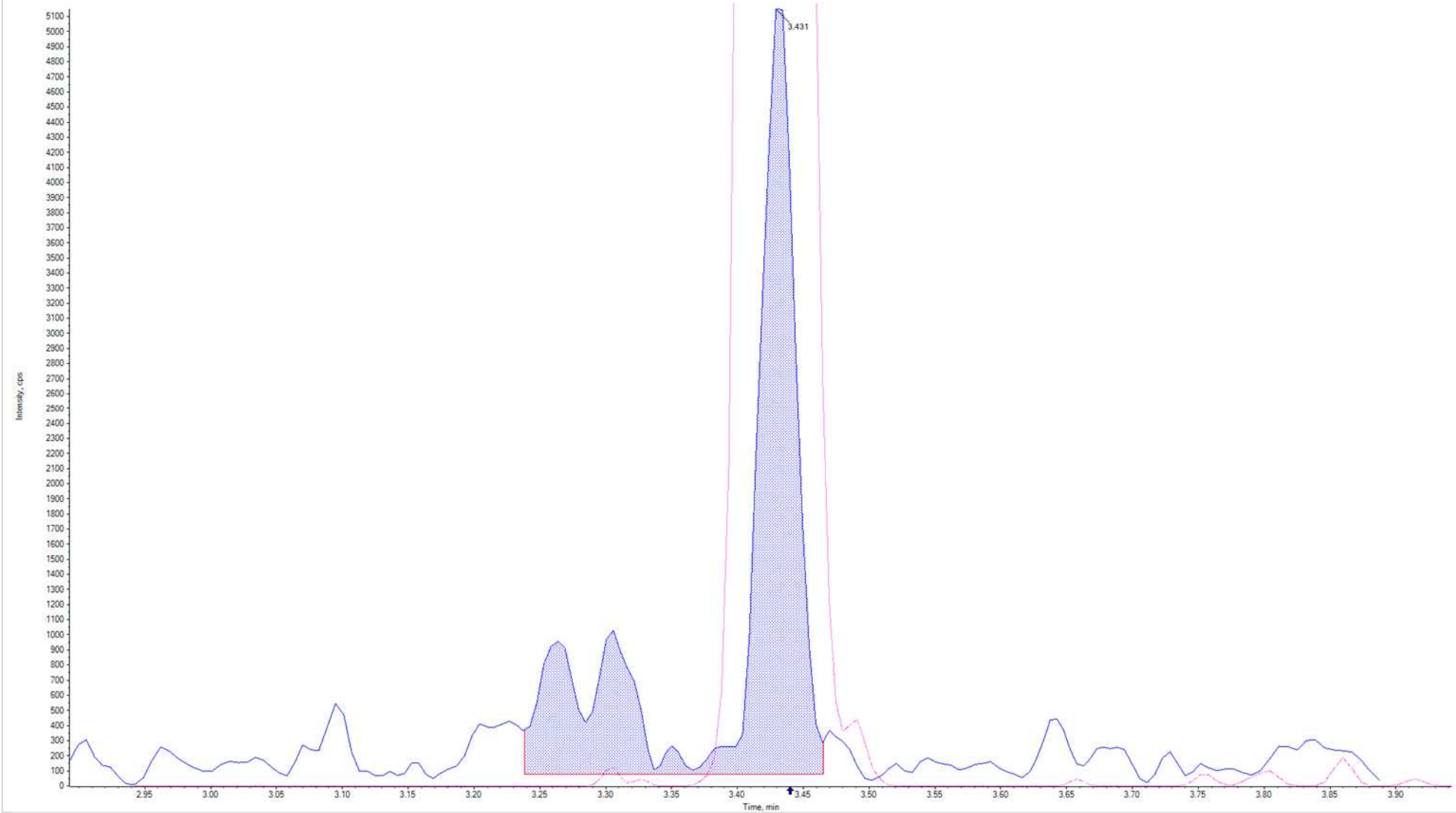
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PFOA_2
Sample: IA1633STD-.1 S/N:80.9 Points Across peak:42



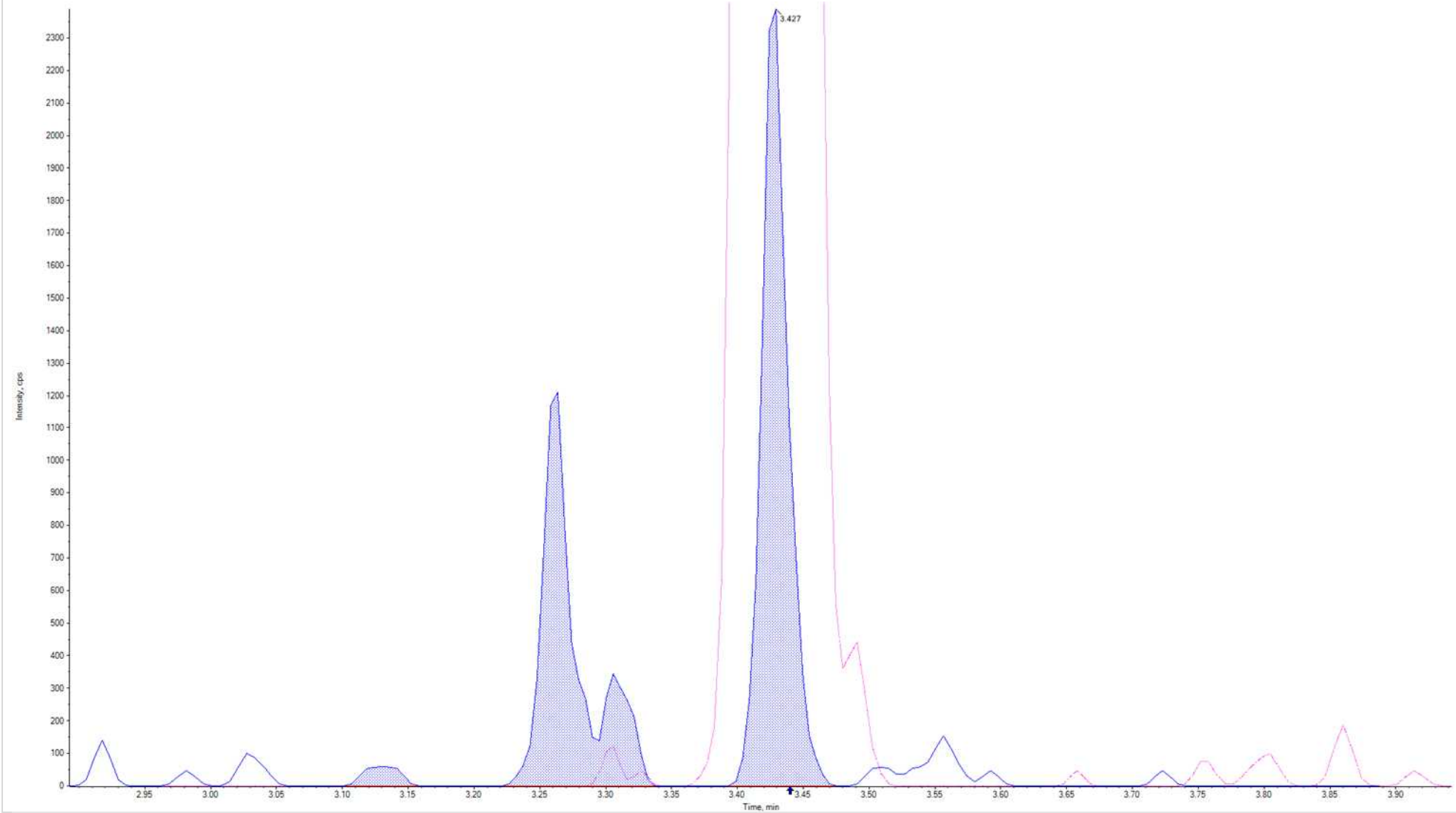
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PFNA
Sample: IA1633STD-.1 S/N:80.8 Points Across peak:46



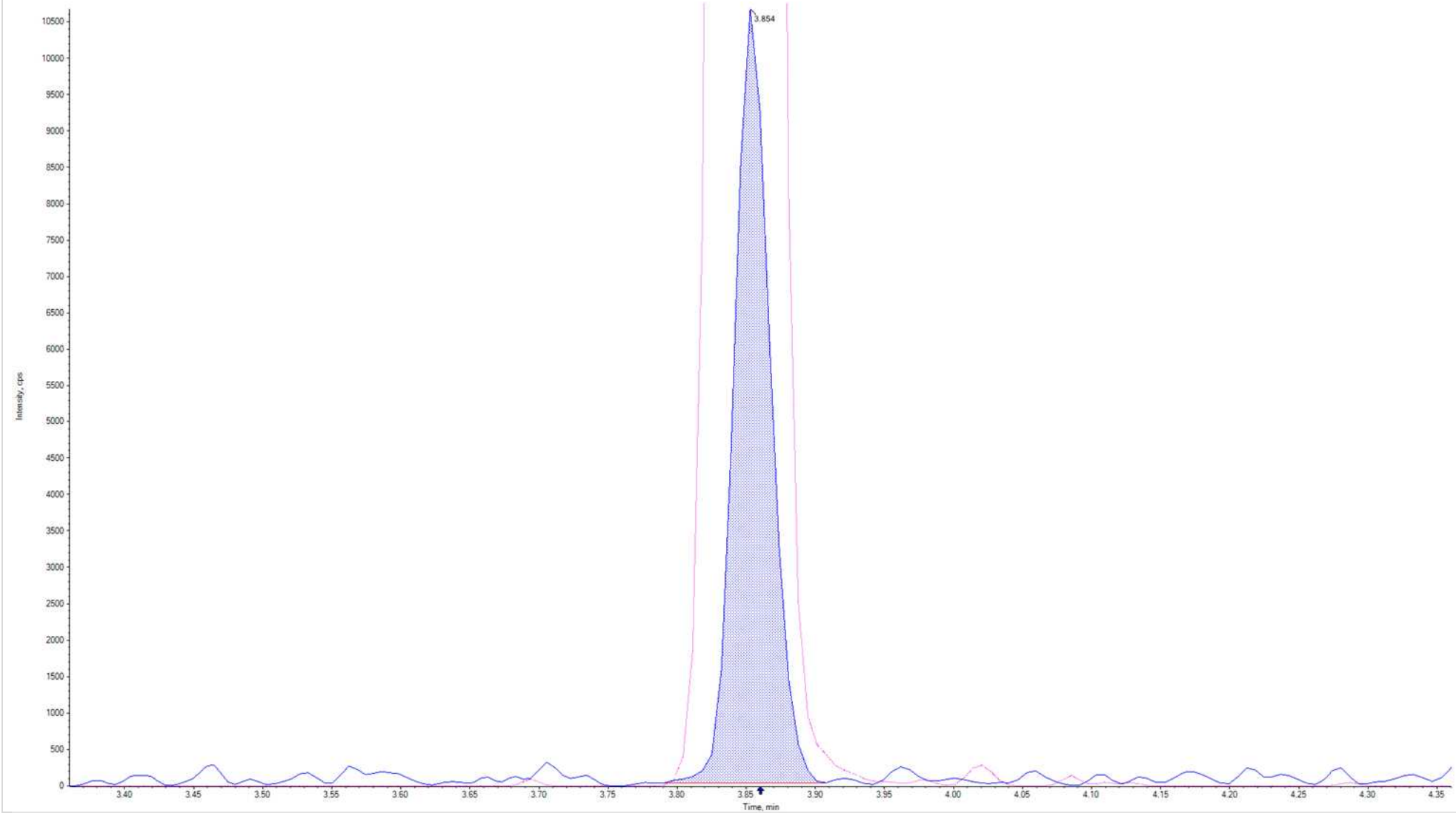
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PFNA_2
Sample: IA1633STD-.1 S/N:53.9 Points Across peak:73



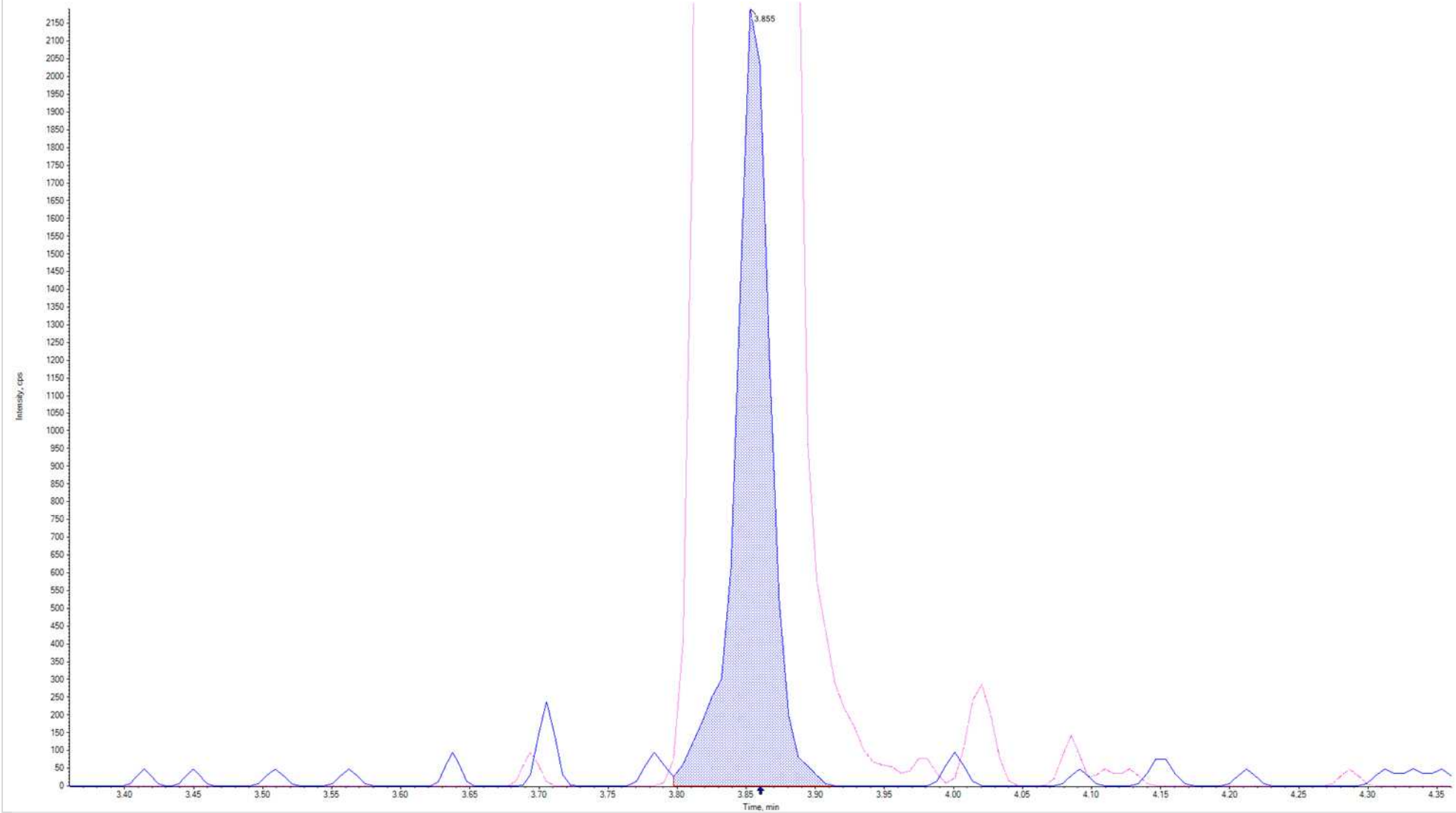
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PFDA
Sample: IA1633STD-.1 S/N:213.2 Points Across peak:19



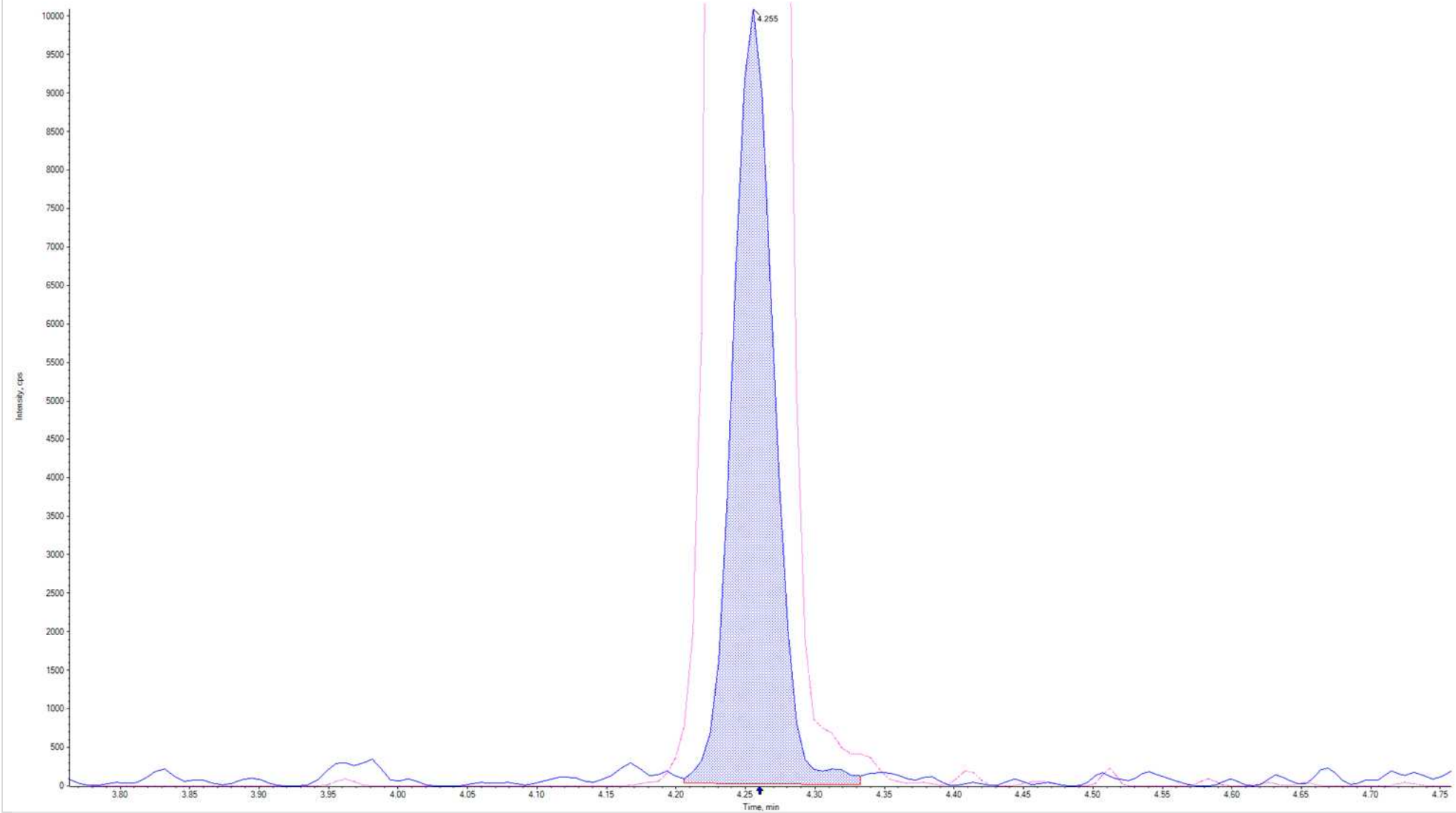
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PFDA_2
Sample: IA1633STD-.1 S/N:43.9 Points Across peak:23



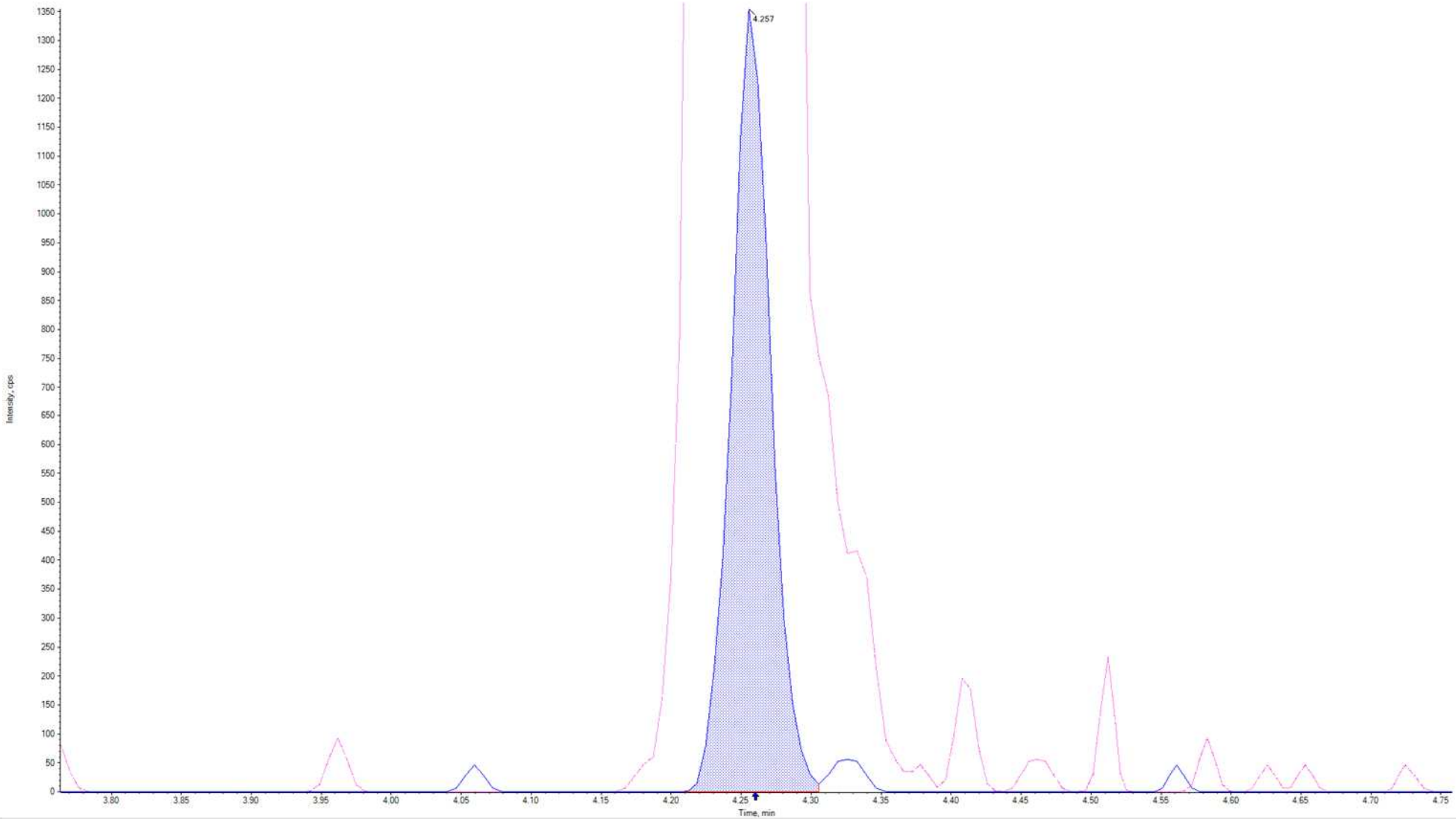
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PFUnA
Sample: IA1633STD-.1 S/N:227.0 Points Across peak:21



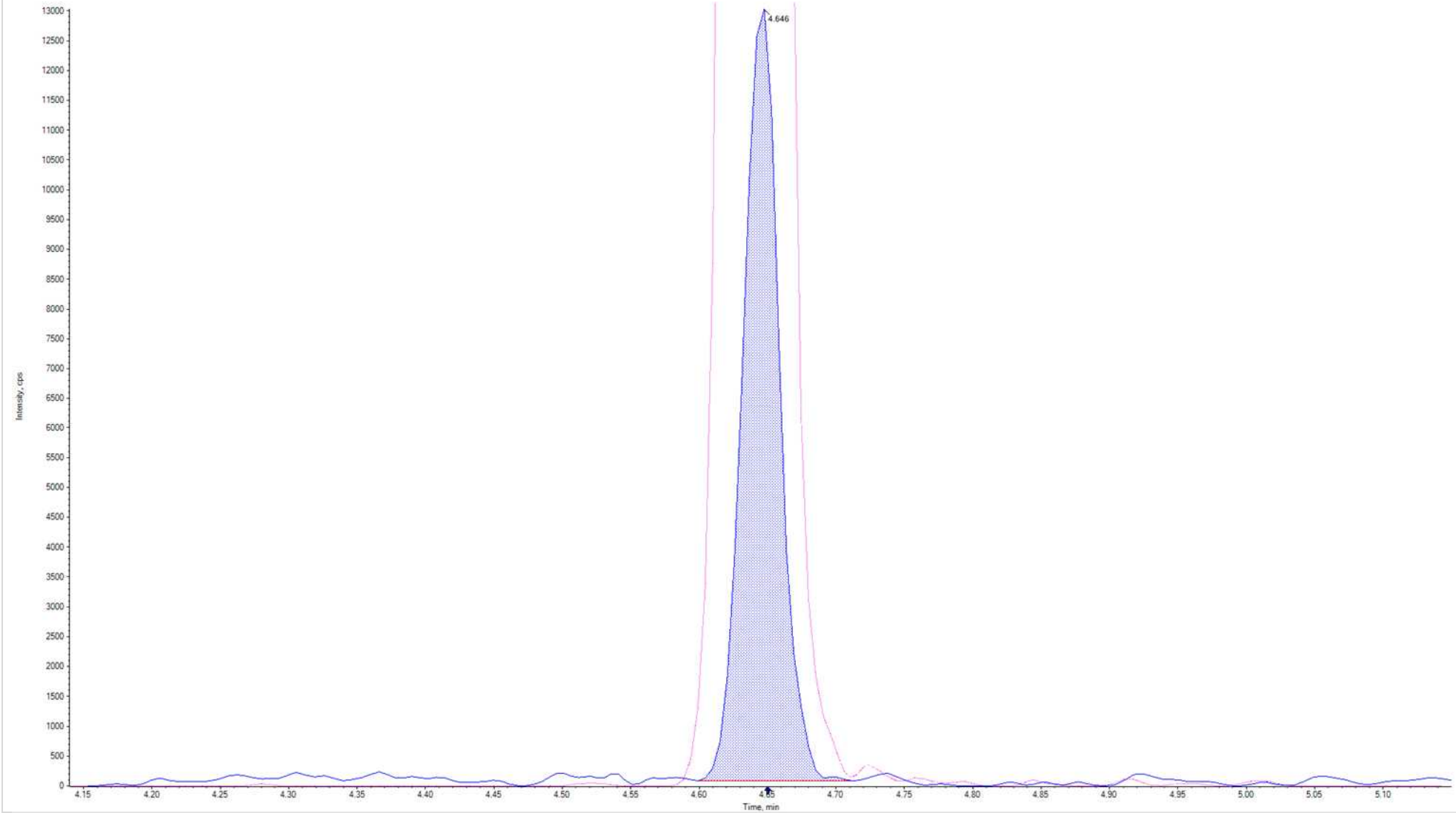
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PFUnA_2
Sample: IA1633STD-.1 S/N:30.6 Points Across peak:21



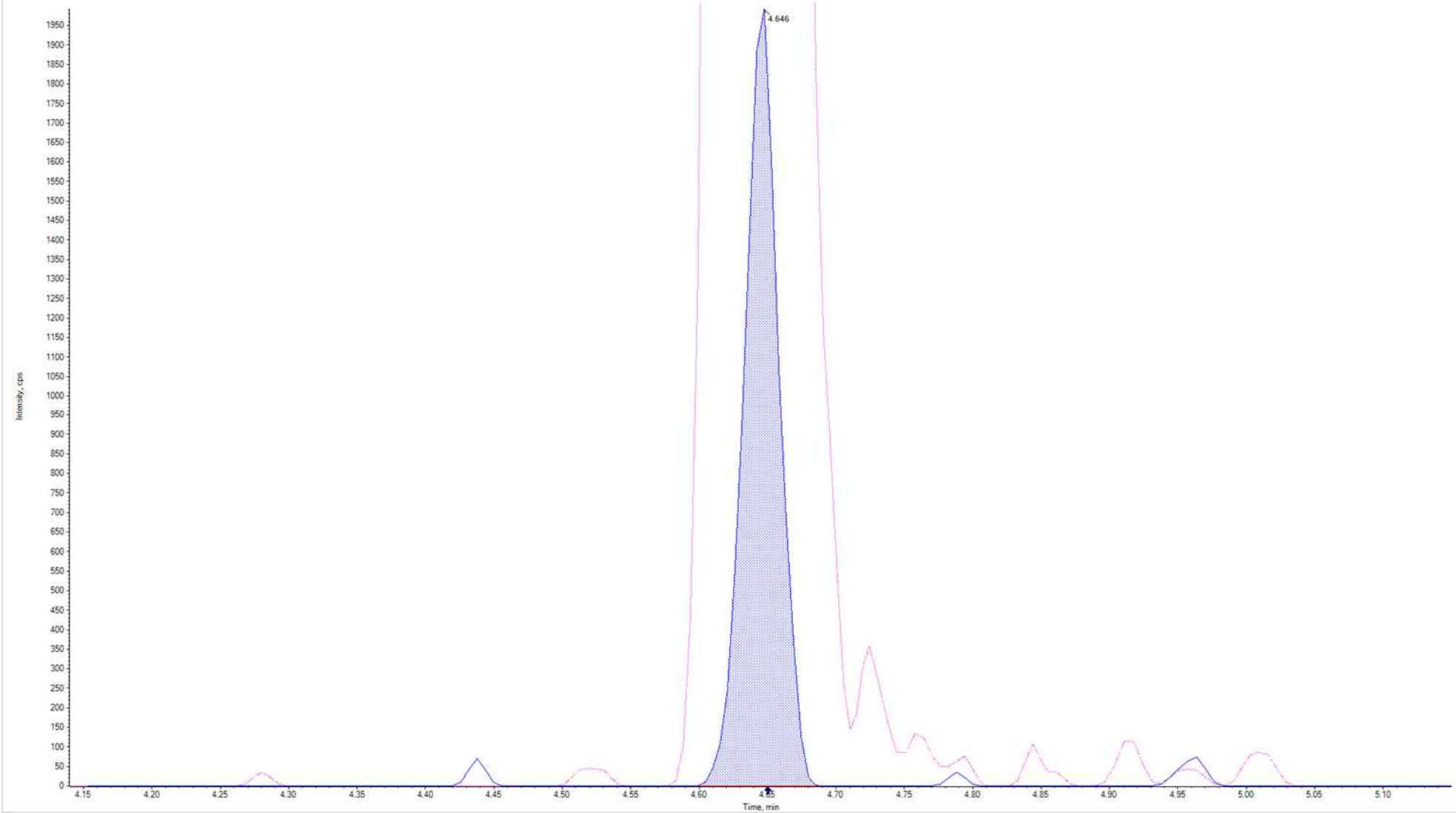
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PFDoA
Sample: IA1633STD-.1 S/N:356.8 Points Across peak:23



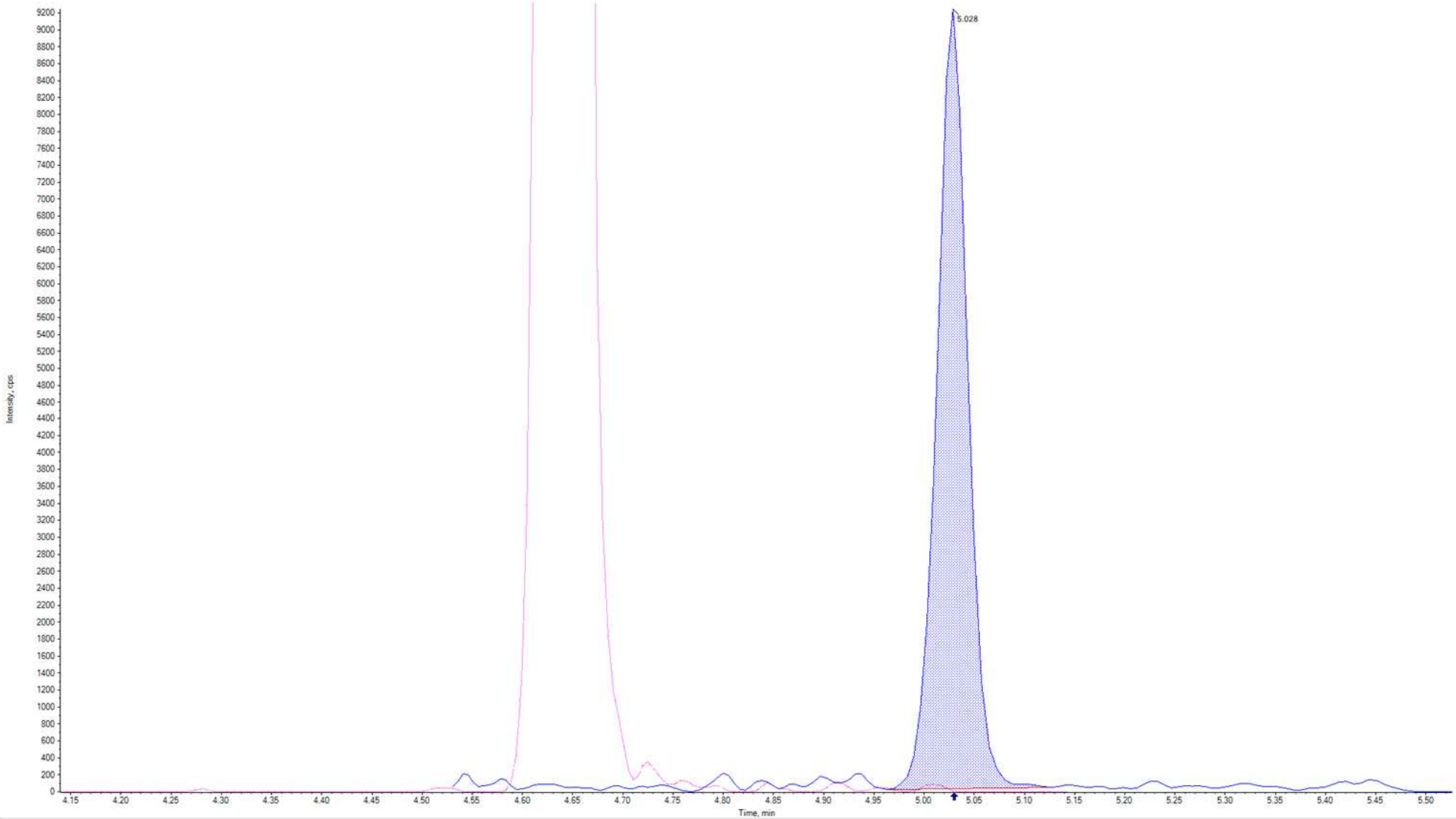
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PFDoA_2
Sample: IA1633STD-.1 S/N:54.9 Points Across peak:27



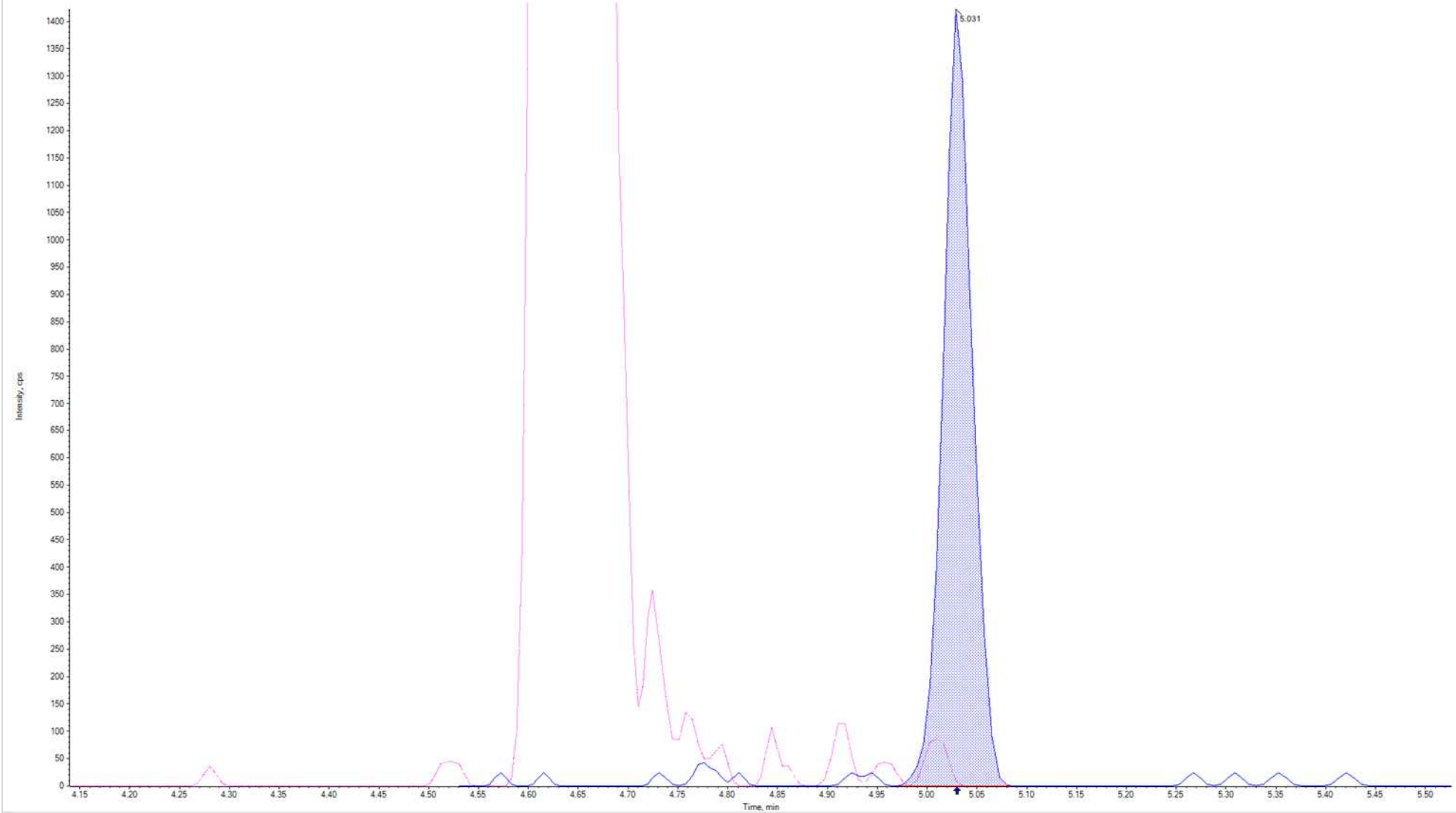
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PFTrDA
Sample: IA1633STD-.1 S/N:369.3 Points Across peak:24



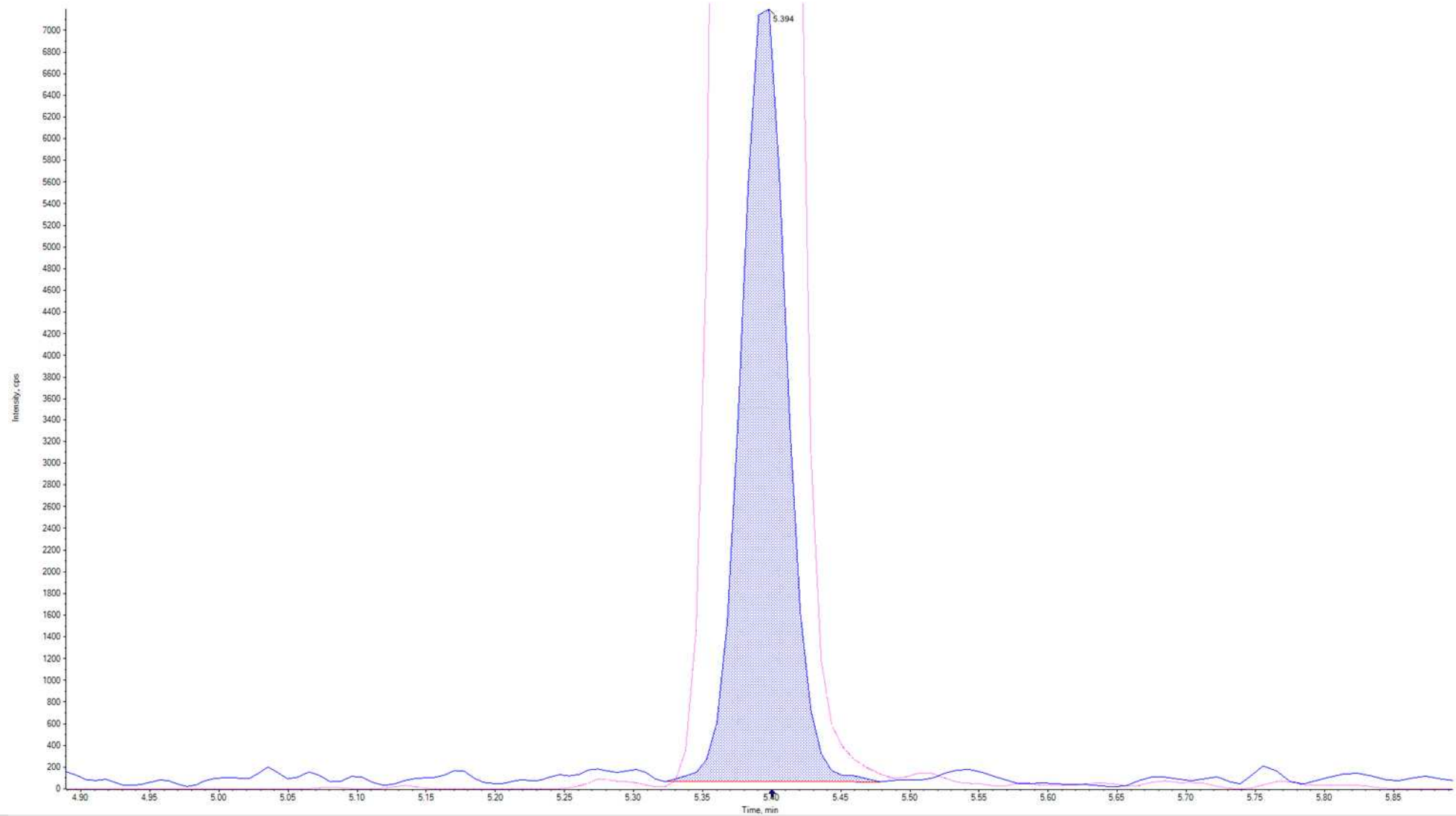
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PFTrDA_2
Sample: IA1633STD-.1 S/N:57.1 Points Across peak:23



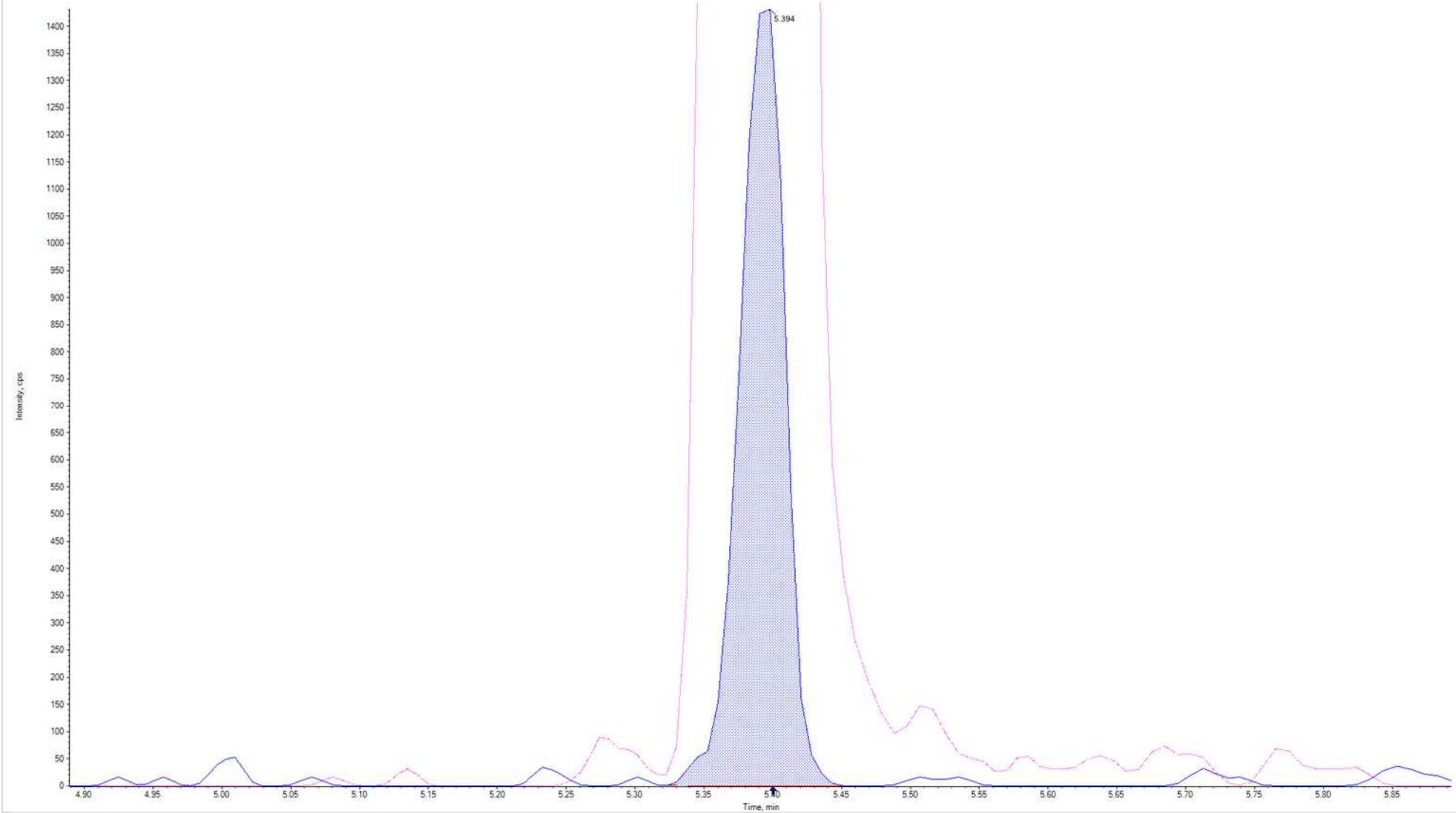
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PFTeDA
Sample: IA1633STD-.1 S/N:446.7 Points Across peak:21



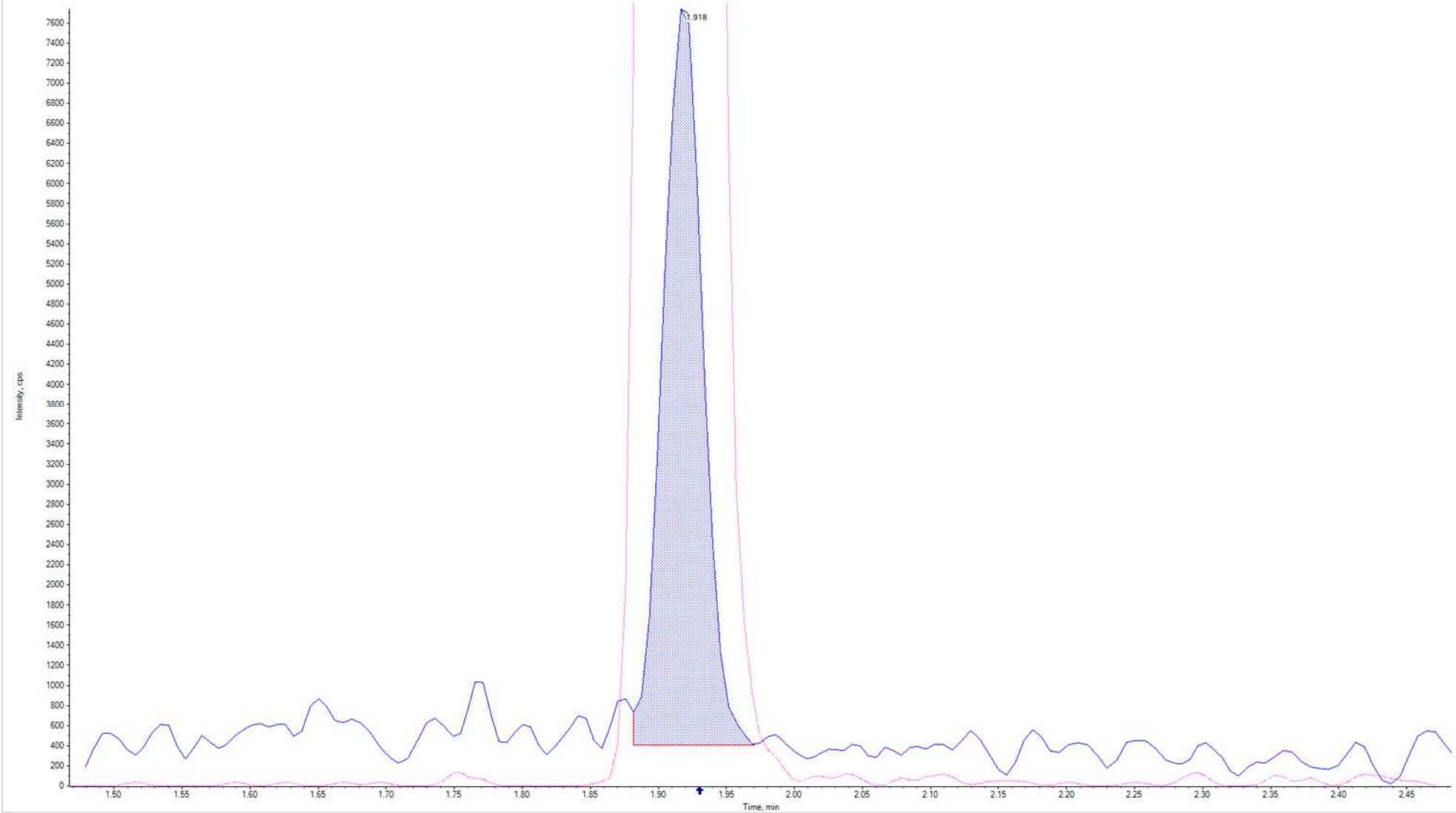
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PFTeDA_2
Sample: IA1633STD-.1 S/N:89.7 Points Across peak:19



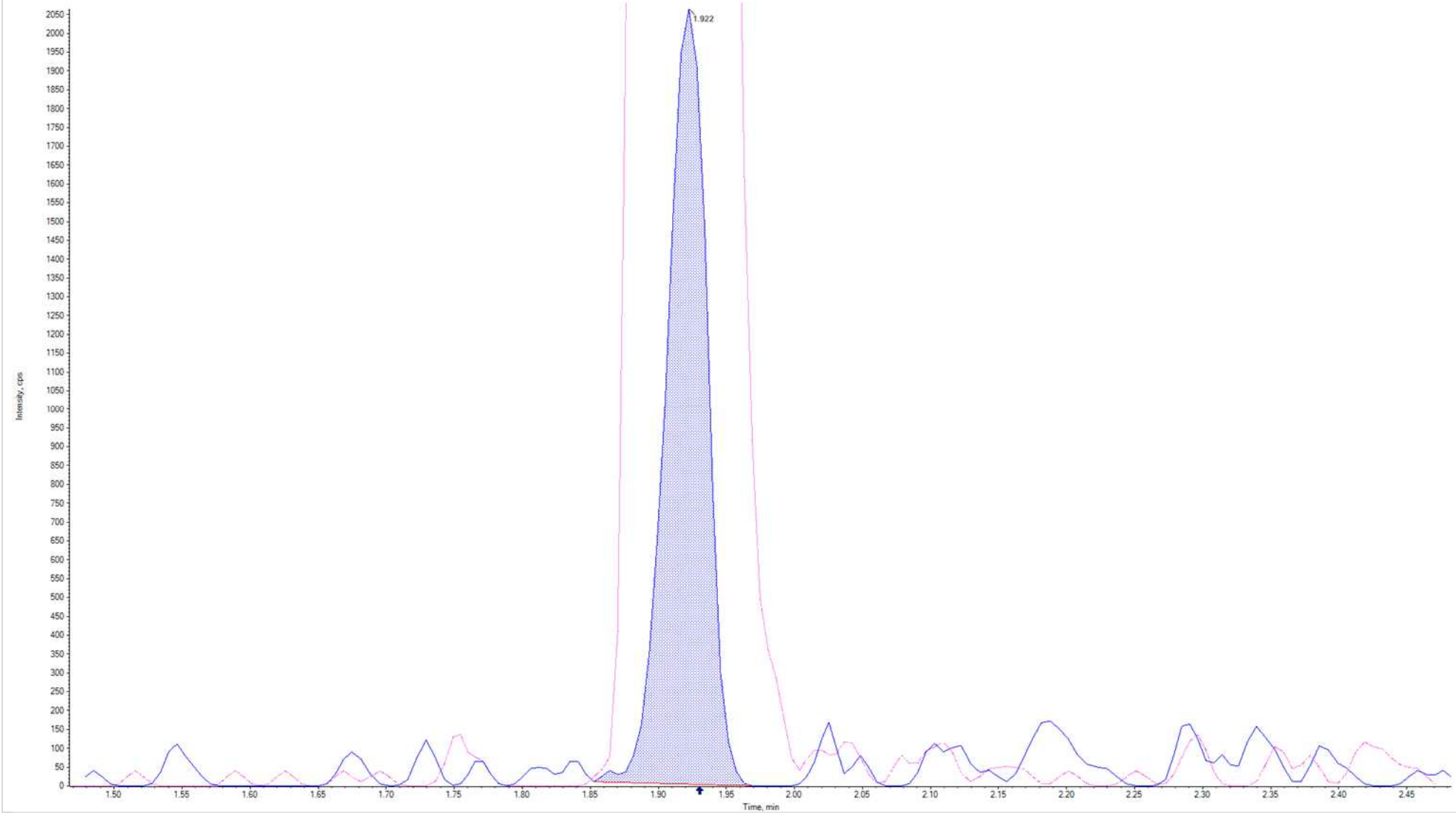
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PFBS
Sample: IA1633STD-.1 S/N:183.8 Points Across peak:18



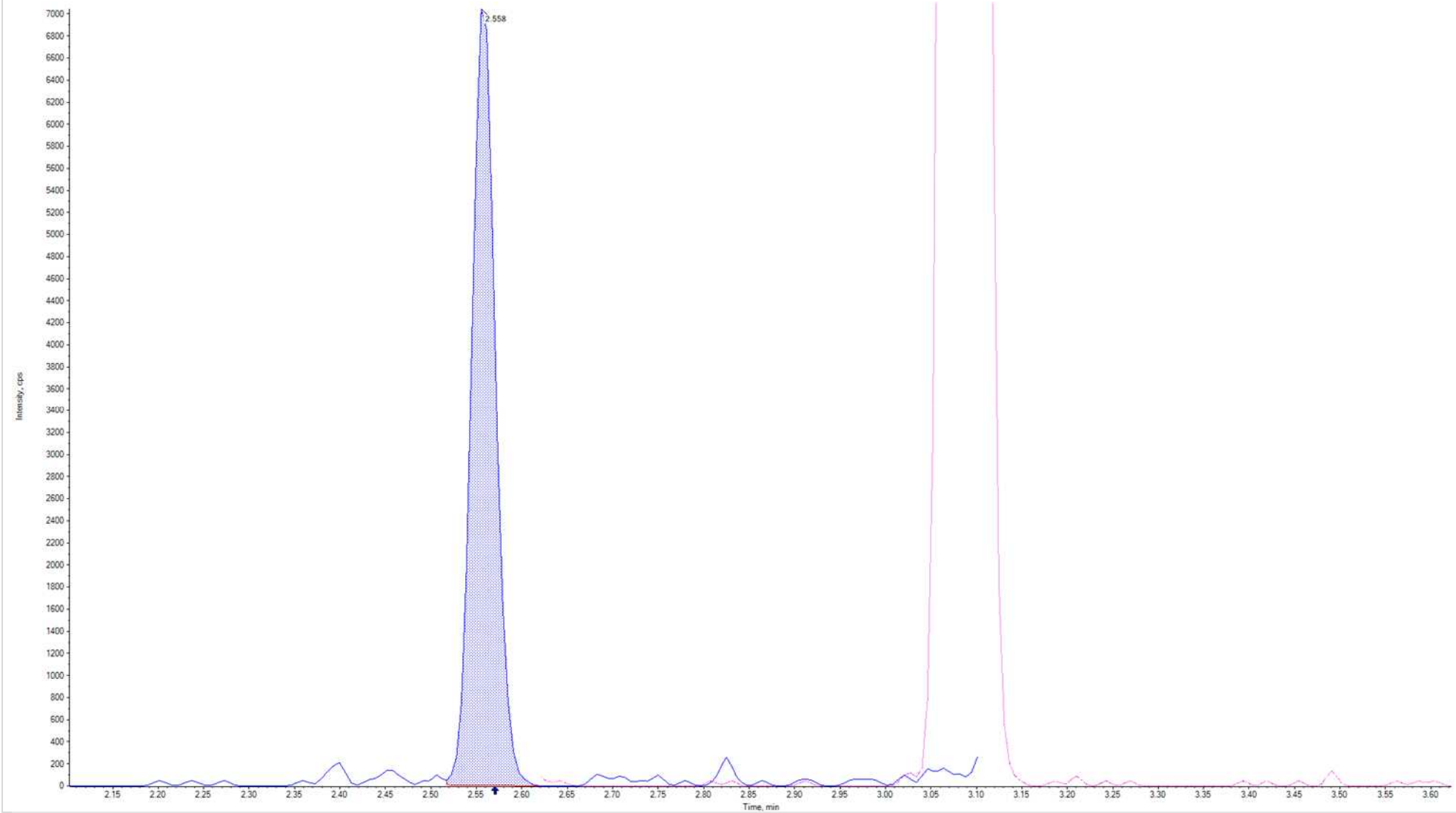
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PFBS_2
Sample: IA1633STD-.1 S/N:51.6 Points Across peak:21



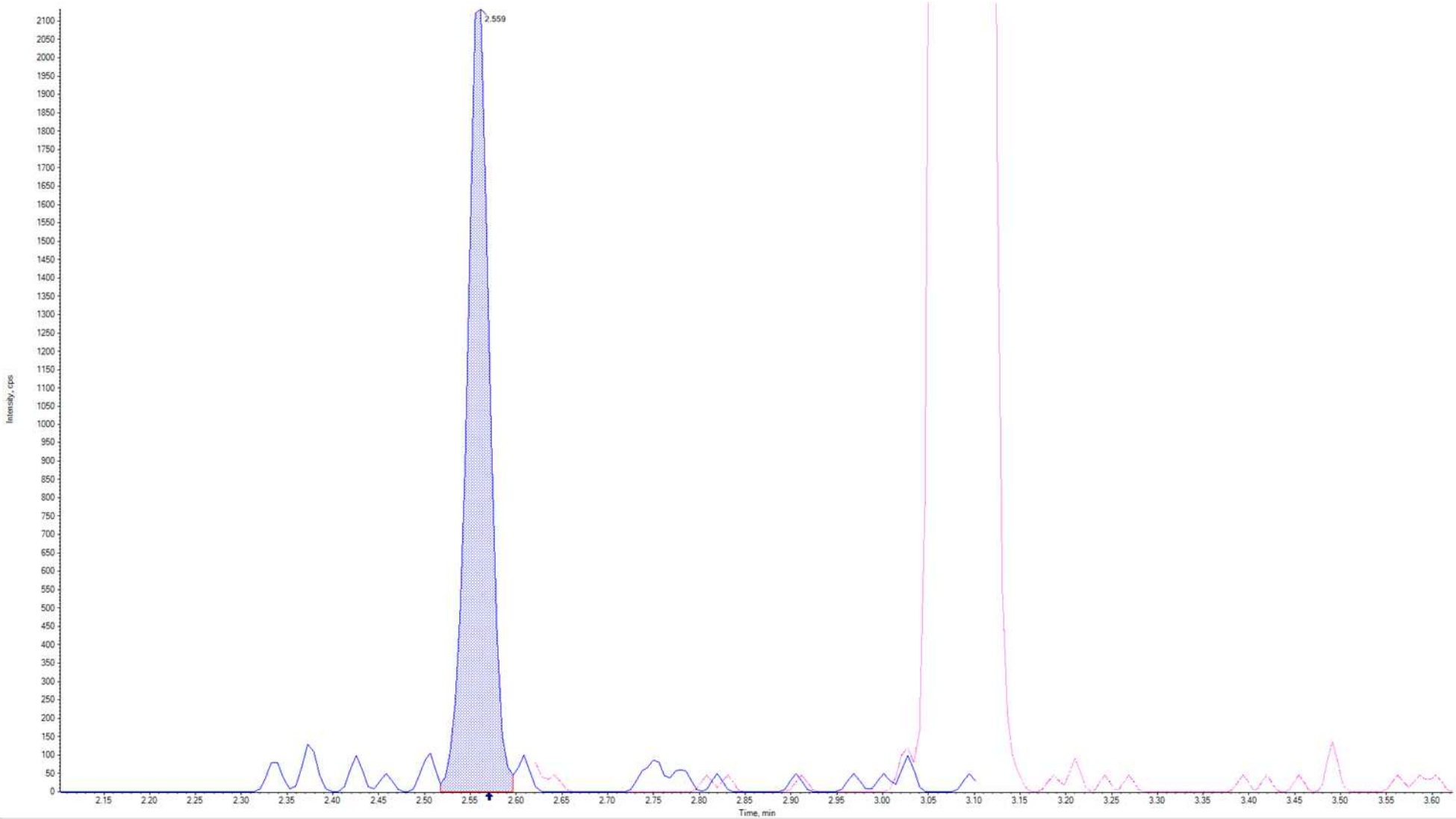
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PFPeS
Sample: IA1633STD-.1 S/N:141.1 Points Across peak:19



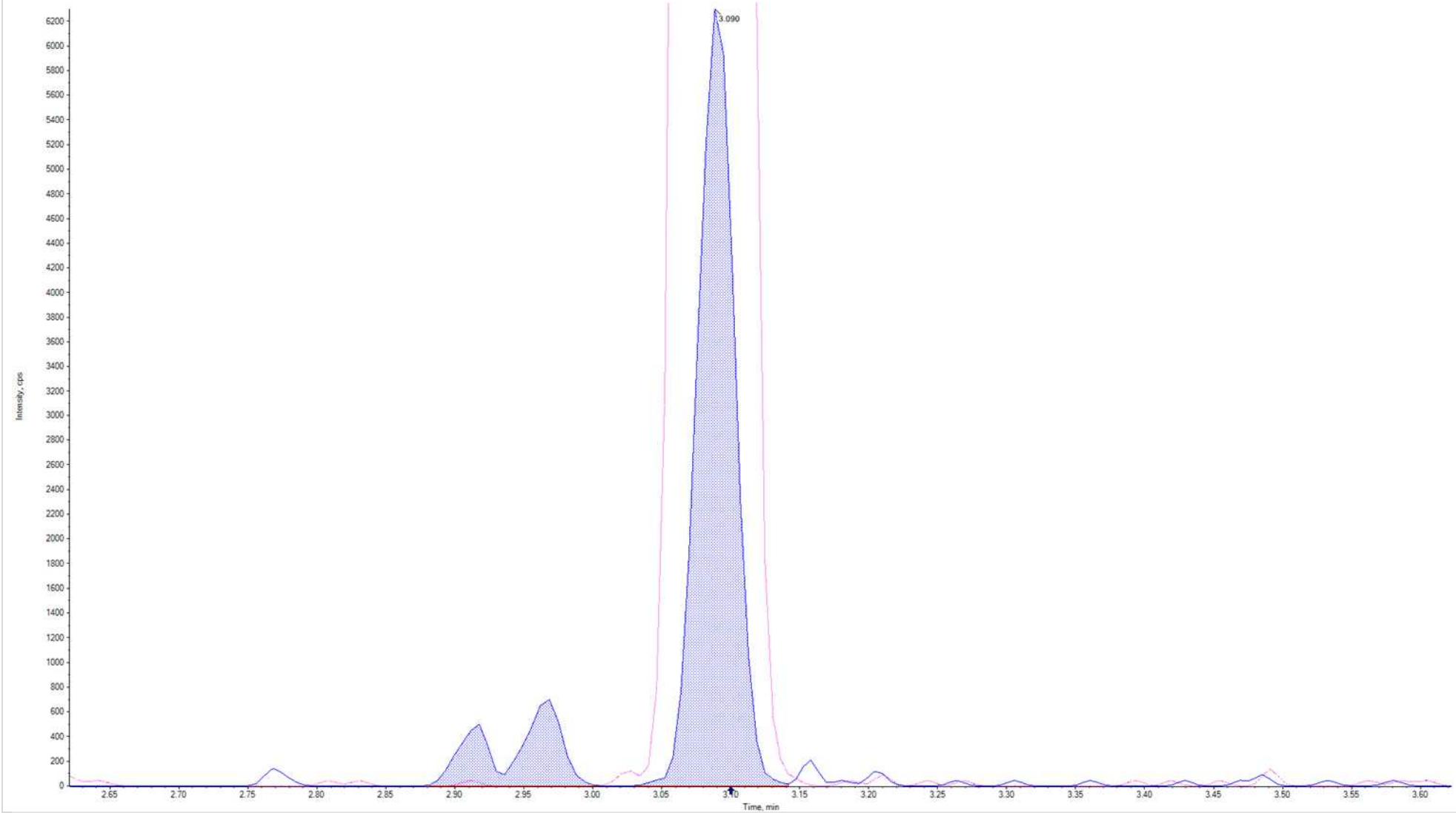
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PFPeS_2
Sample: IA1633STD-.1 S/N:42.8 Points Across peak:15



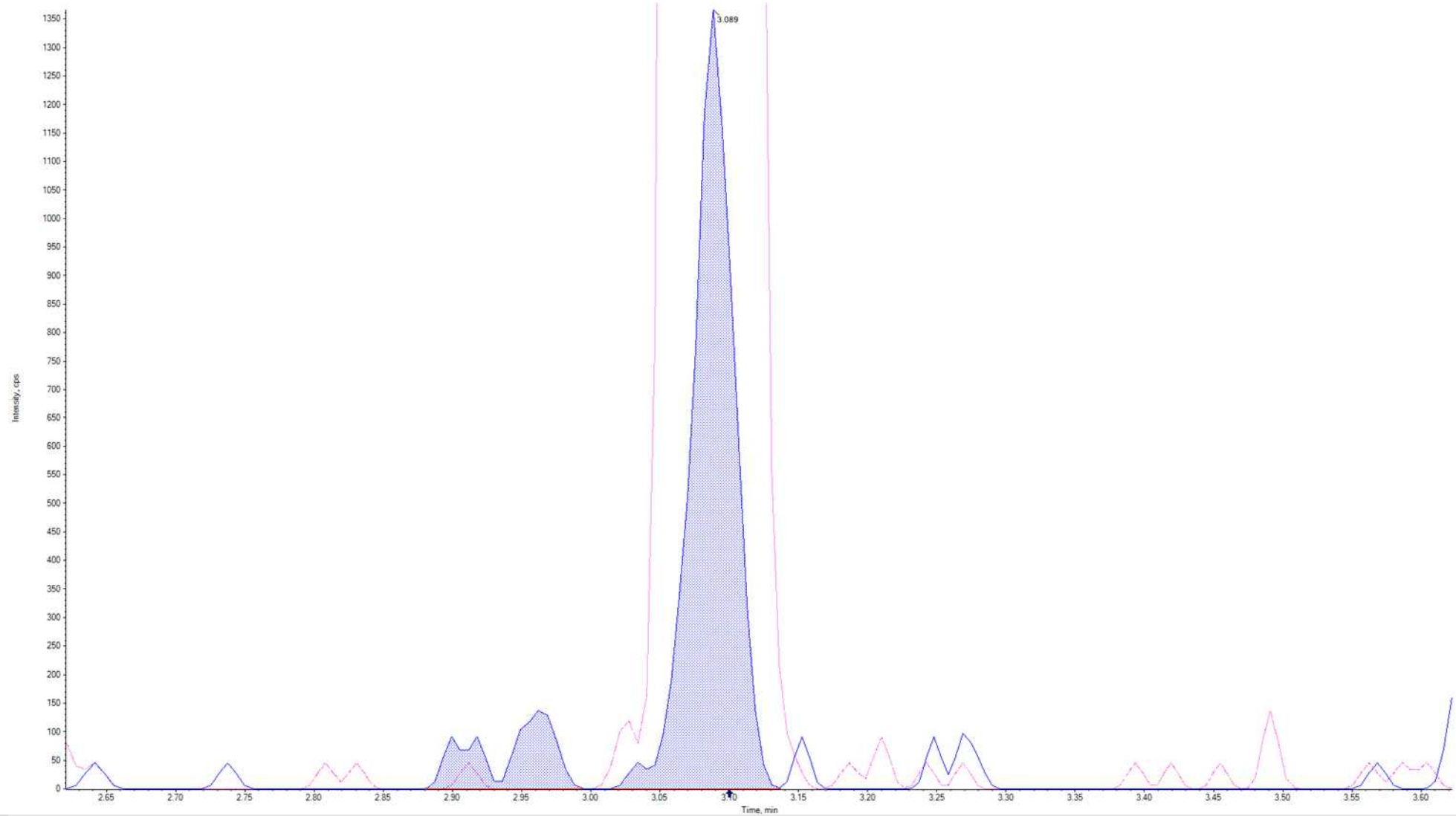
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PFHxS
Sample: IA1633STD-.1 S/N:142.1 Points Across peak:44



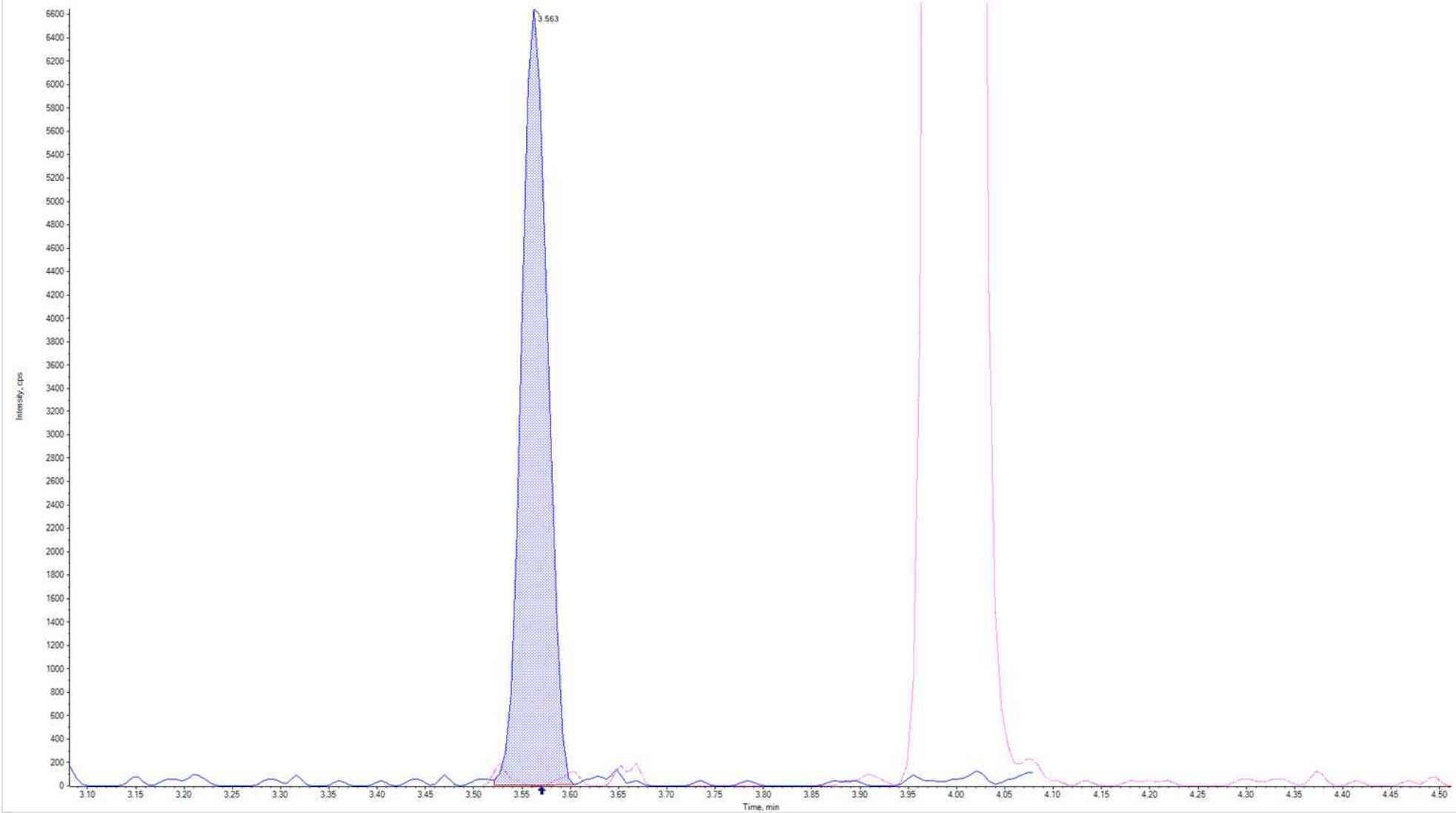
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHxS_2
Sample: IA1633STD-.1 S/N:30.8 Points Across peak:43



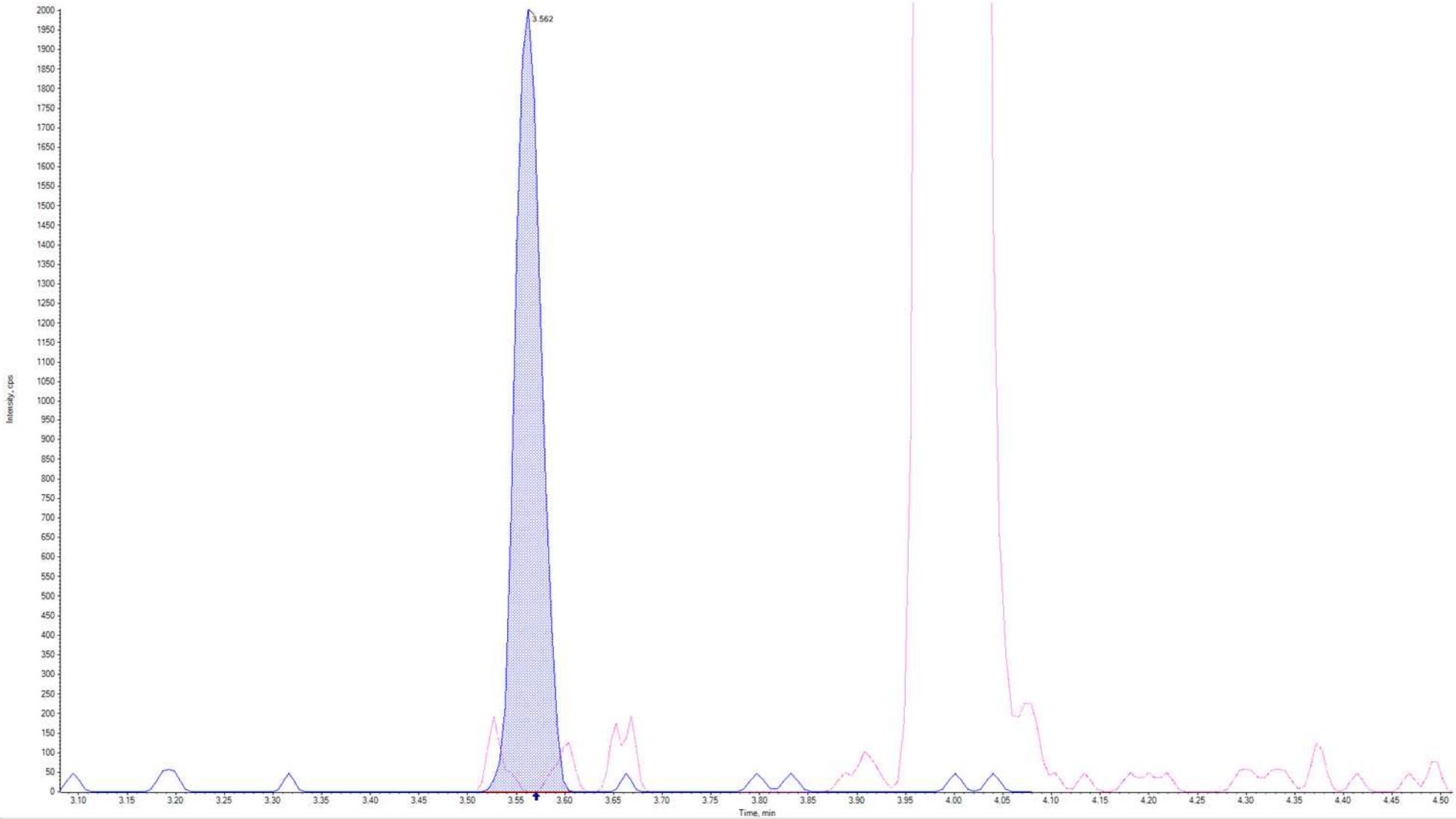
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHpS
Sample: IA1633STD-.1 S/N:133.1 Points Across peak:15



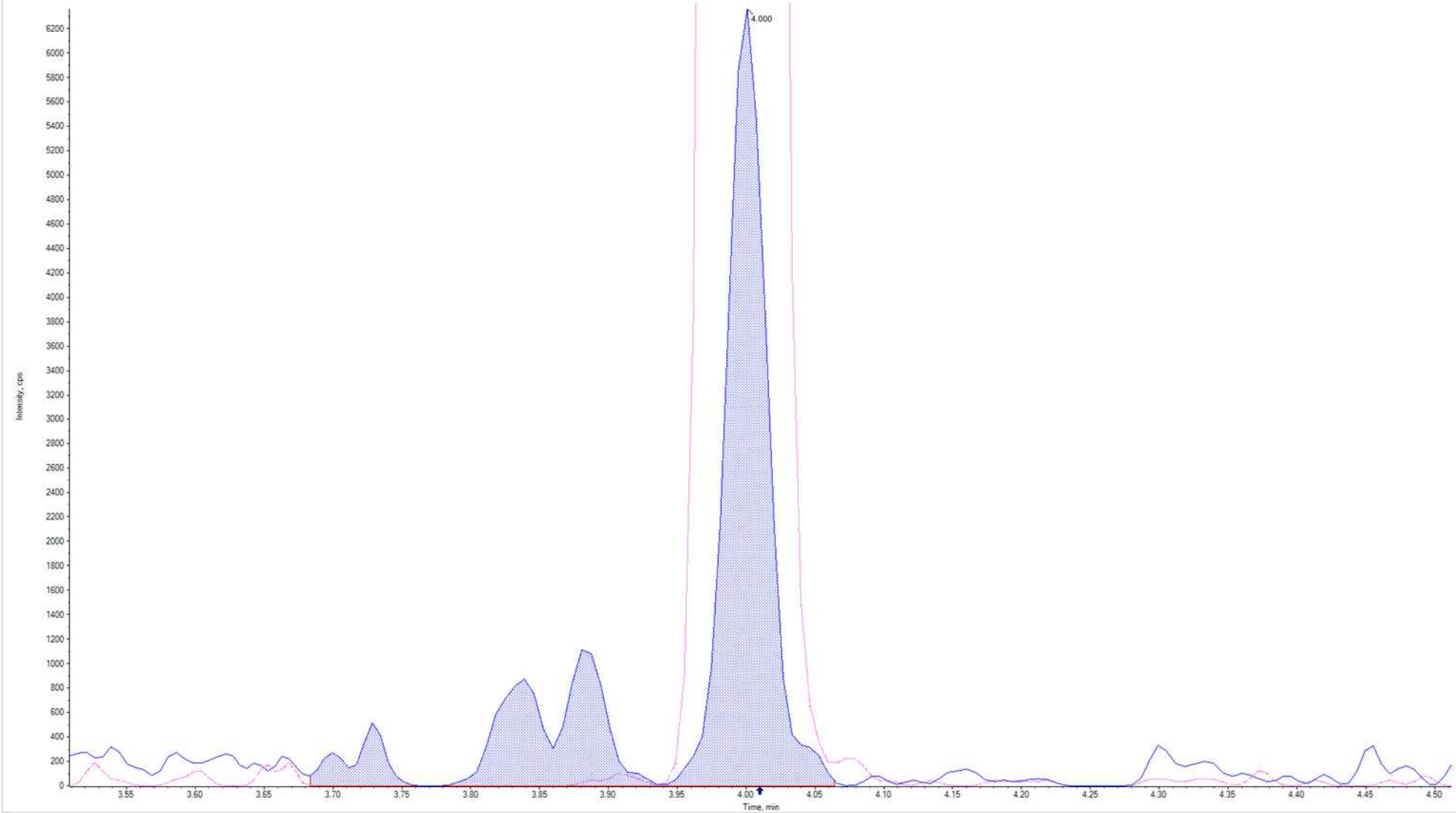
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHpS_2
Sample: IA1633STD-.1 S/N:40.2 Points Across peak:25



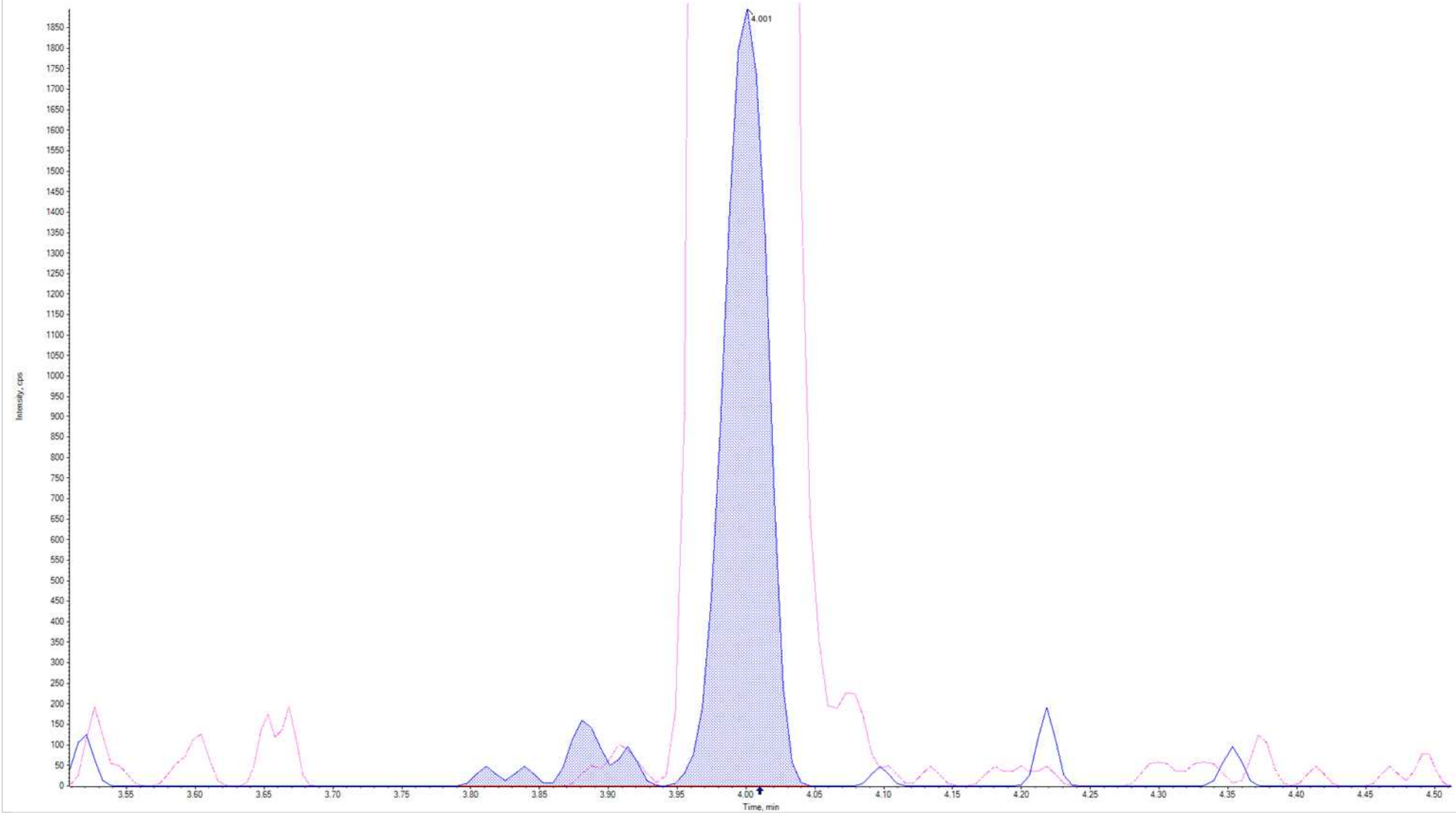
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
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PFOS
Sample: IA1633STD-.1 S/N:84.4 Points Across peak:60



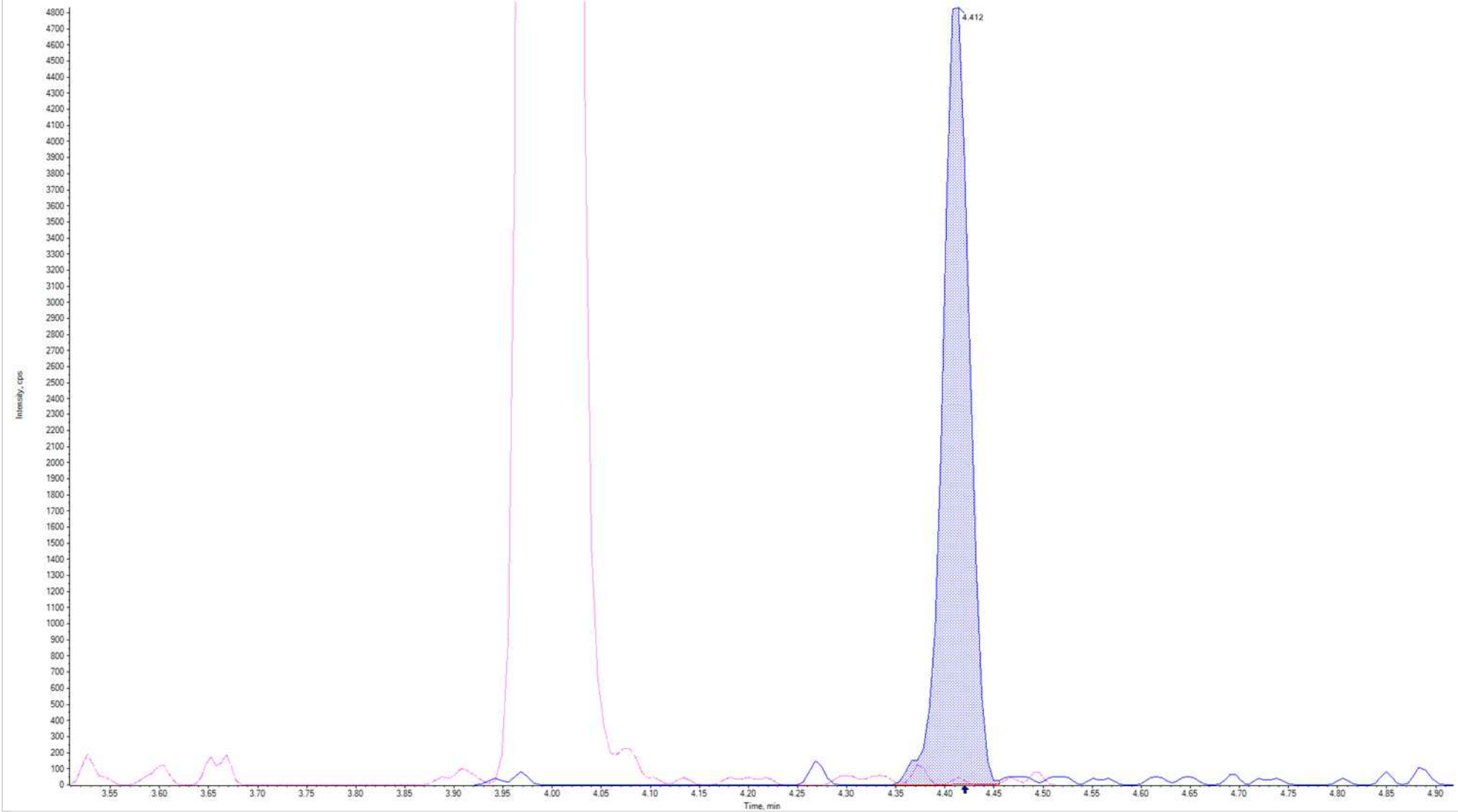
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOS_2
Sample: IA1633STD-.1 S/N:38.0 Points Across peak:41



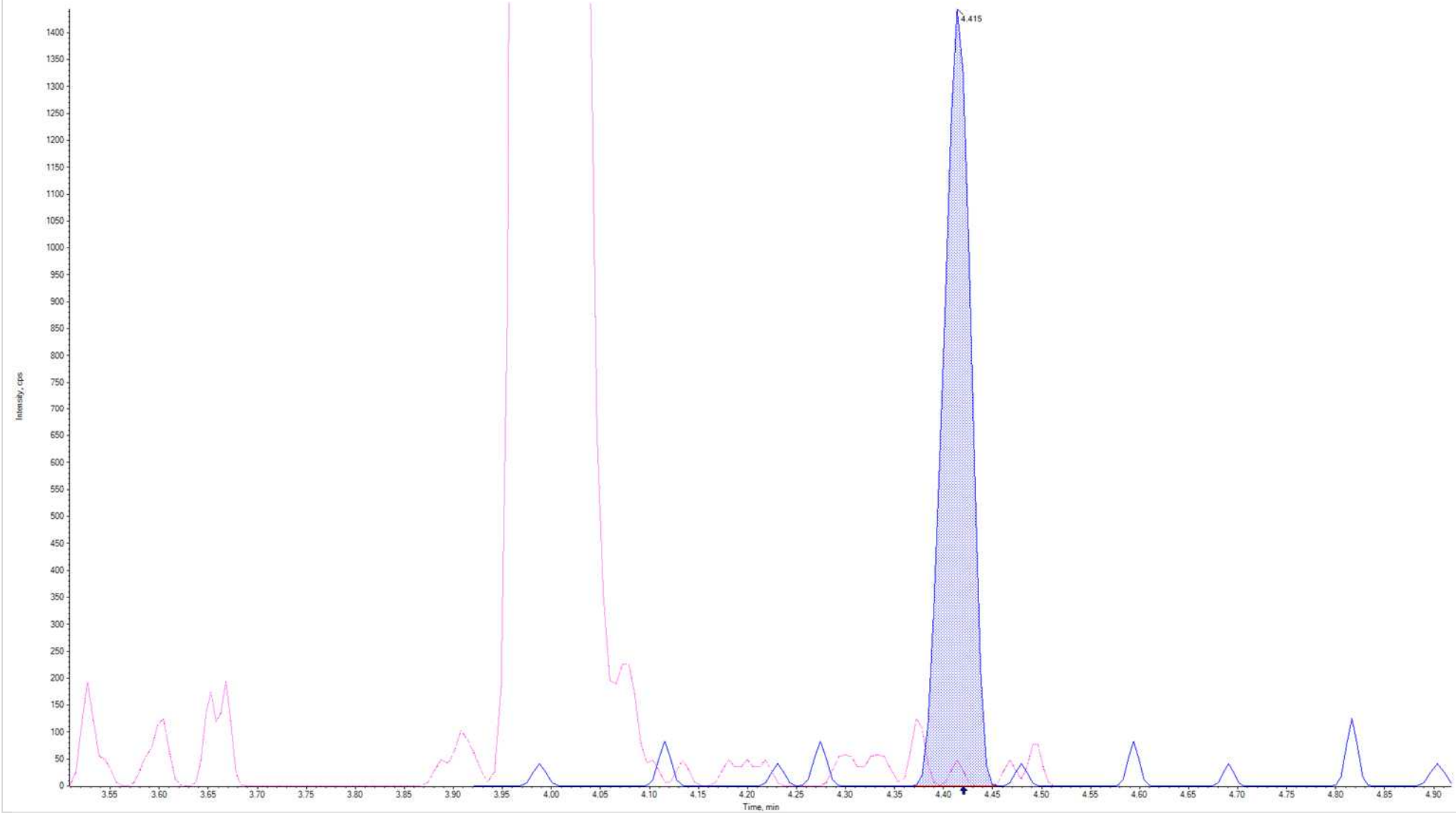
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS
Sample: IA1633STD-.1 S/N:121.1 Points Across peak:20



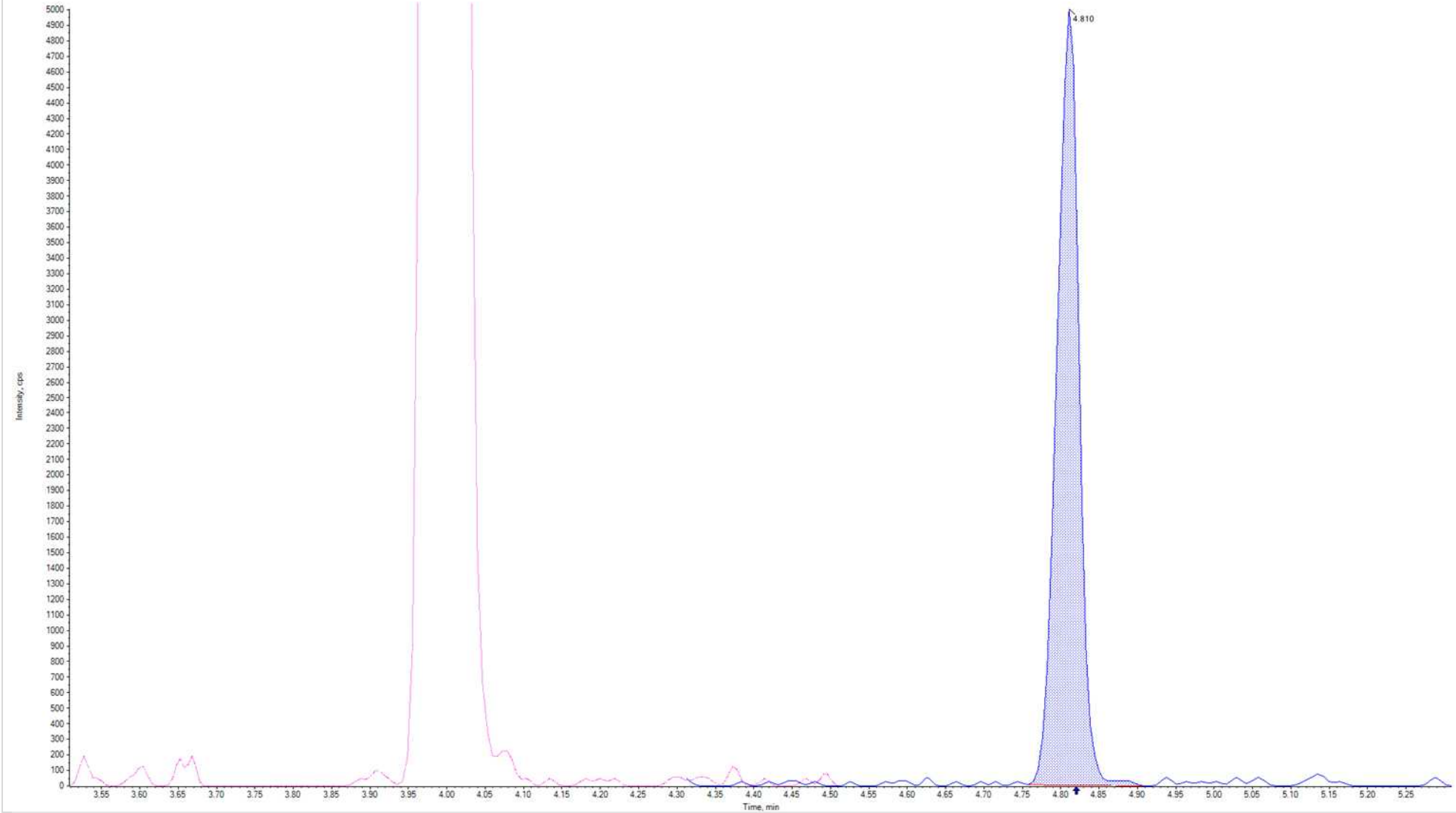
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS_2
Sample: IA1633STD-.1 S/N:36.2 Points Across peak:20



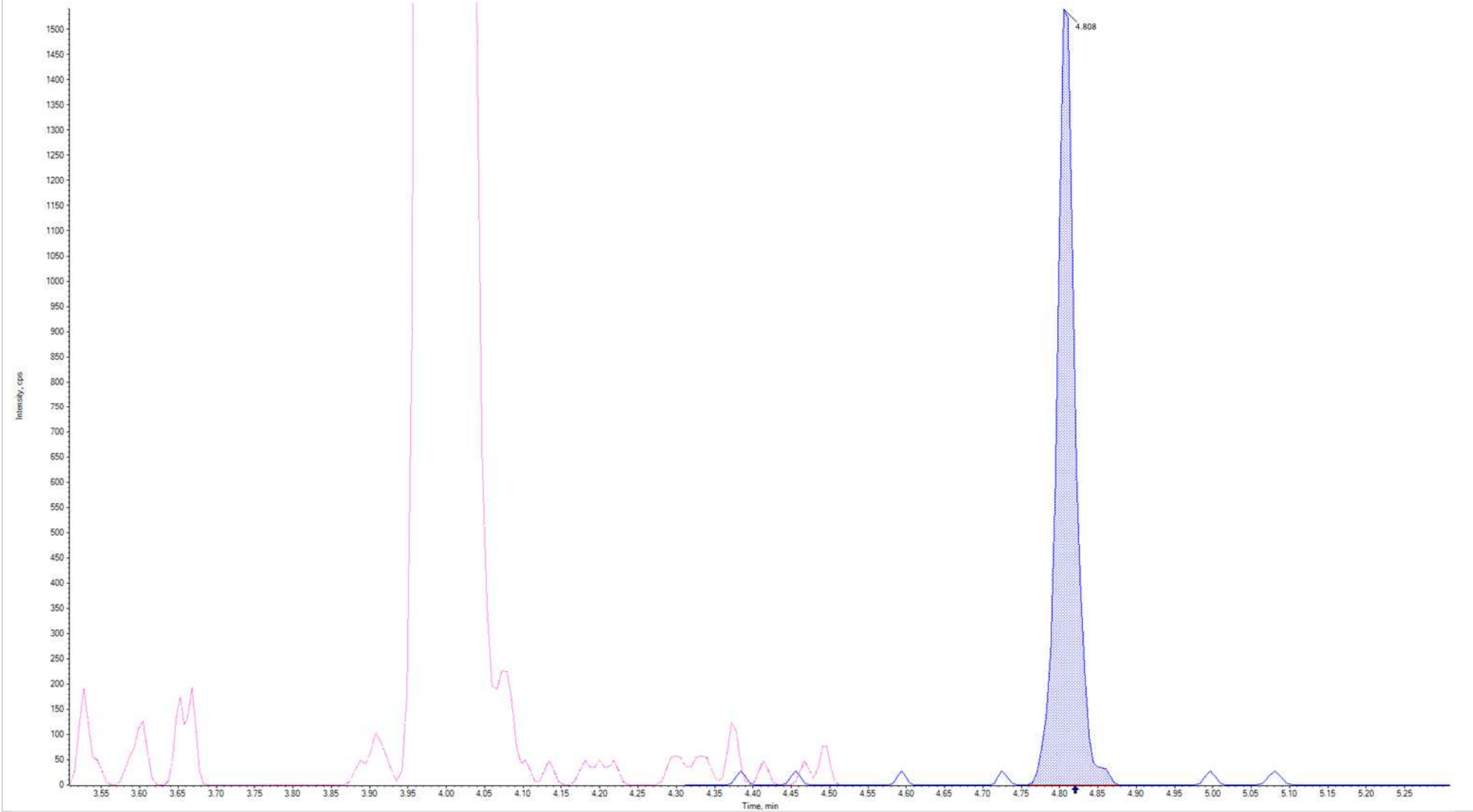
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
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PFDS
Sample: IA1633STD-.1 S/N:175.4 Points Across peak:27



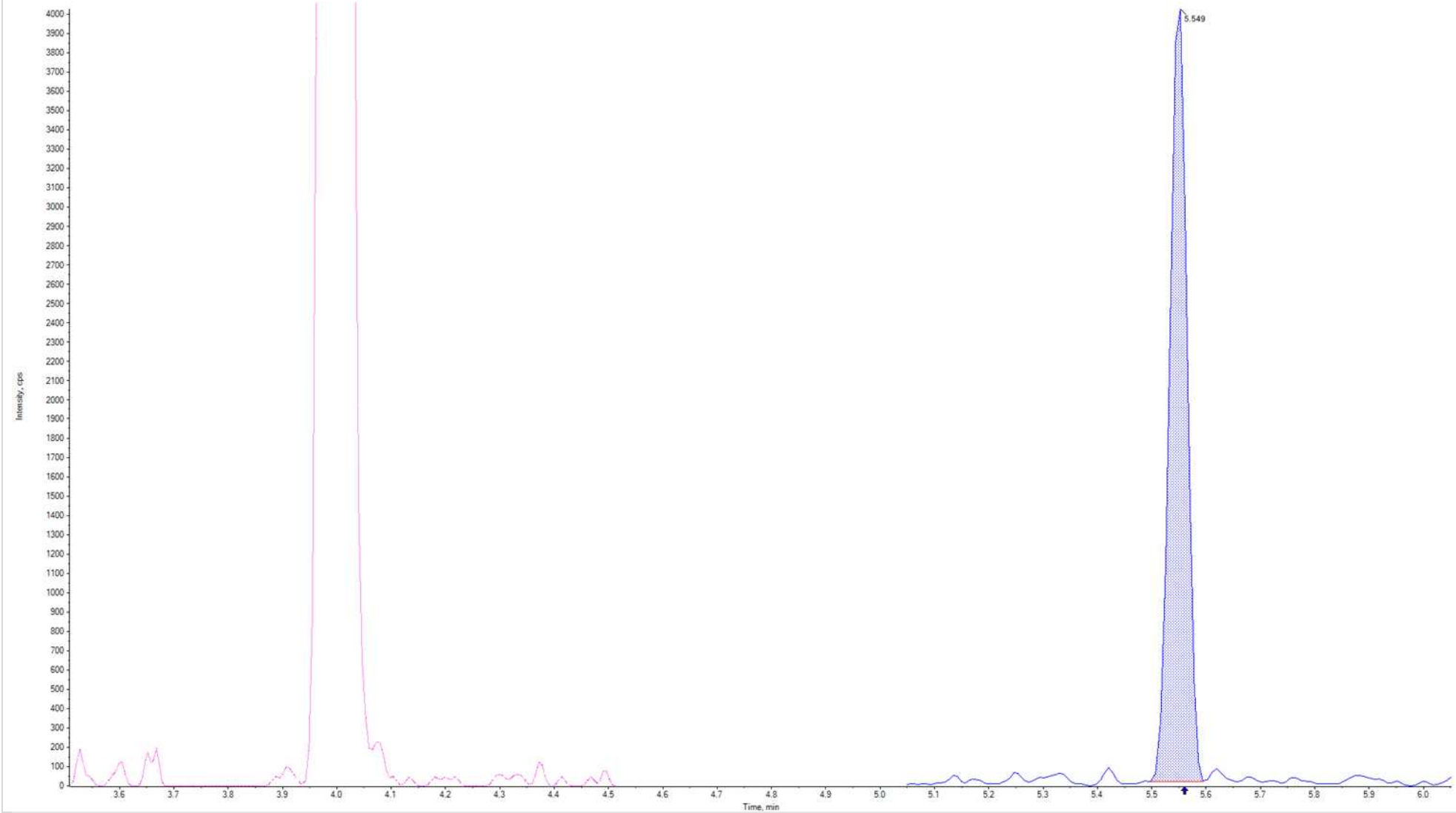
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDS_2
Sample: IA1633STD-.1 S/N:54.0 Points Across peak:28



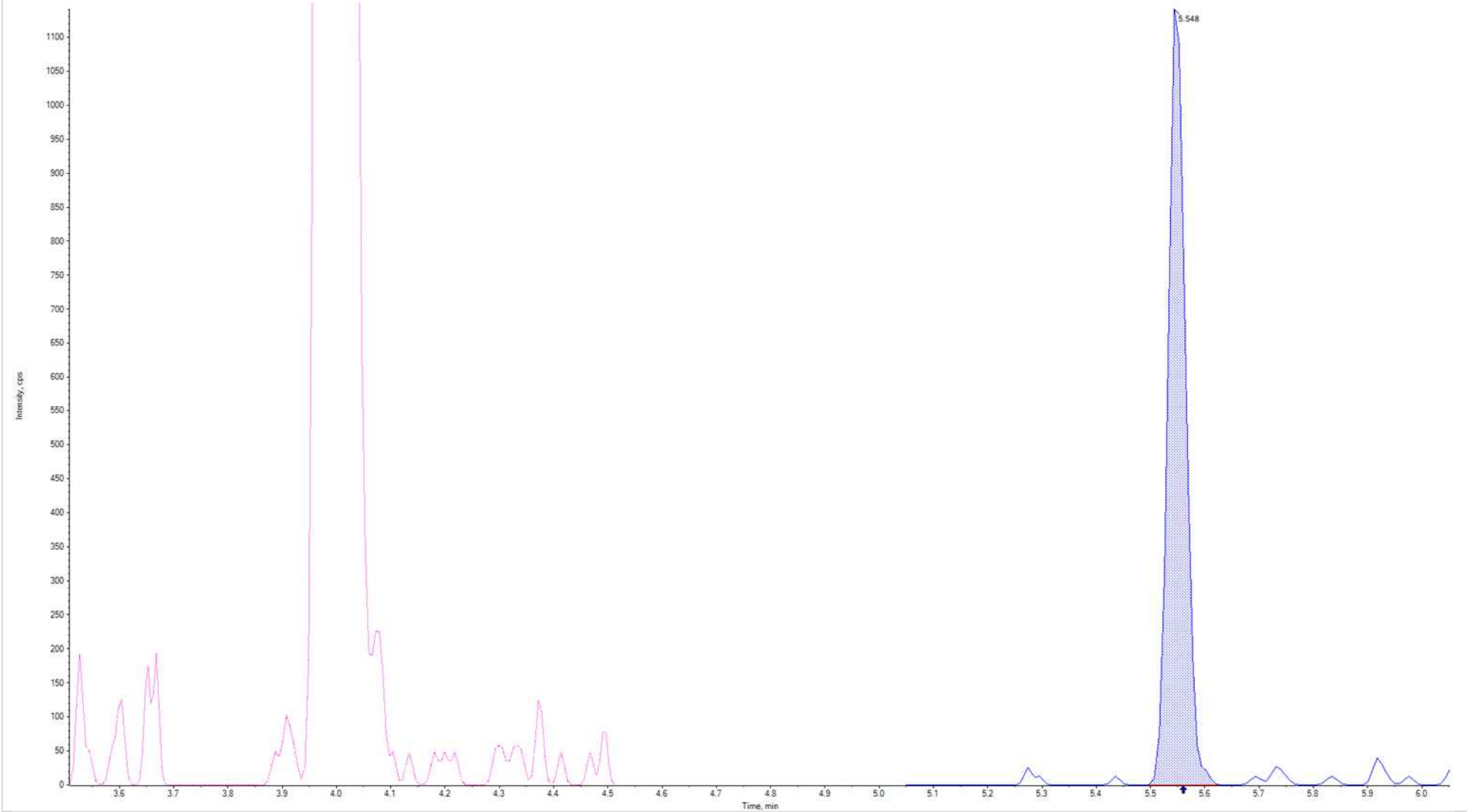
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDoS
Sample: IA1633STD-.1 S/N:311.2 Points Across peak:12



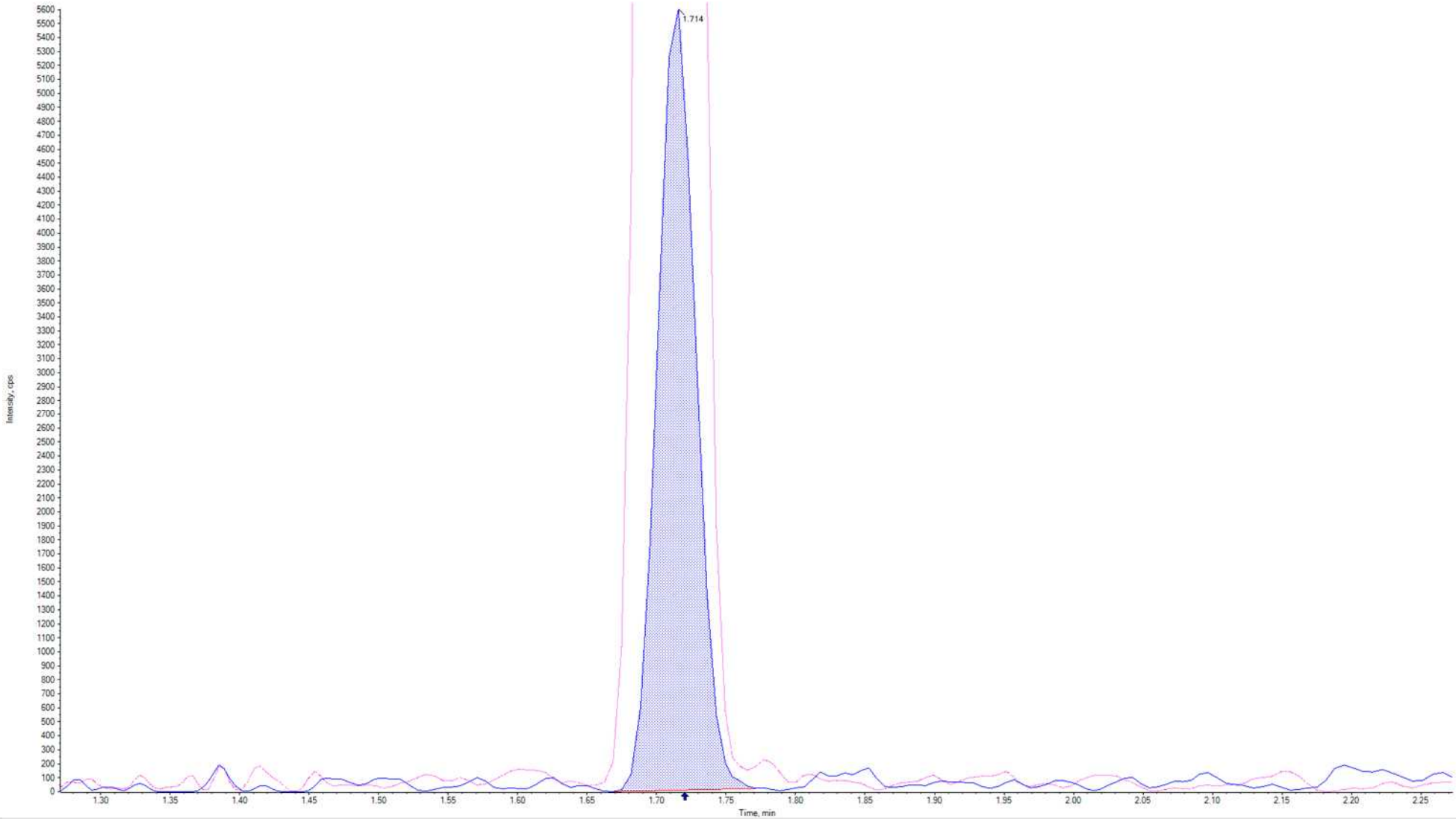
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDoS_2
Sample: IA1633STD-.1 S/N:88.7 Points Across peak:20



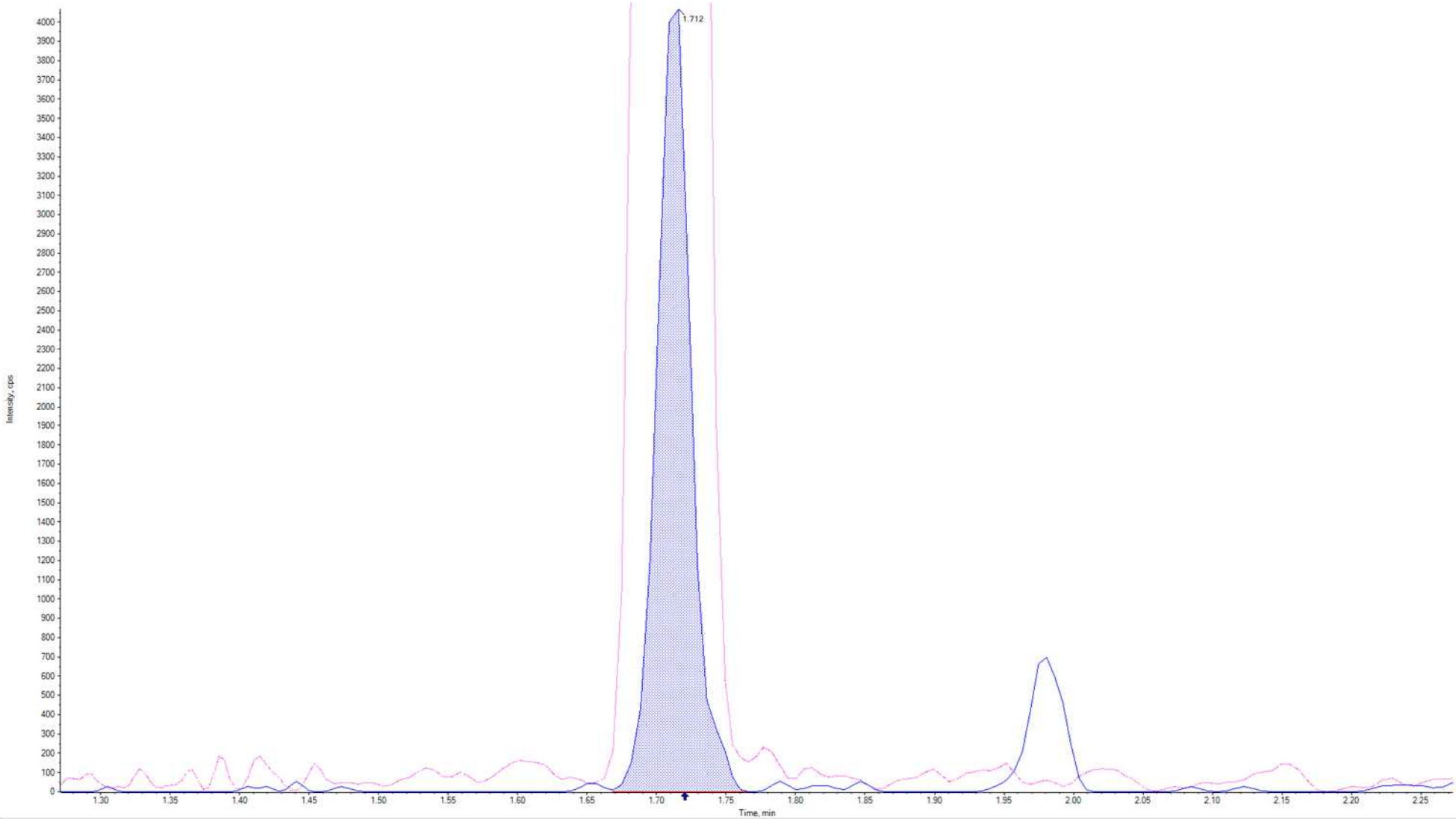
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
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4:2FTS
Sample: IA1633STD-.1 S/N:210.2 Points Across peak:17



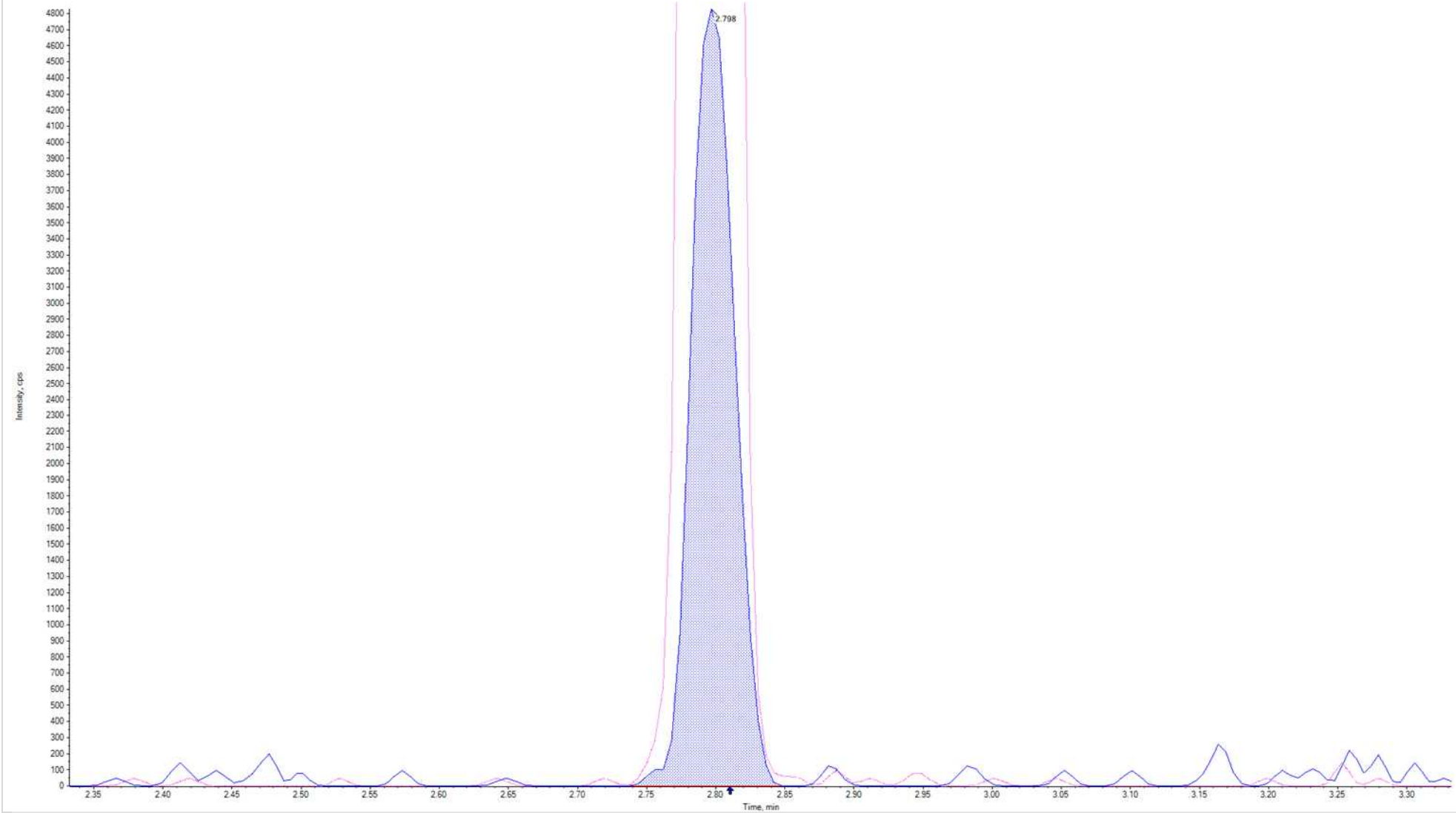
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

4:2FTS_2
Sample: IA1633STD-.1 S/N:152.9 Points Across peak:17



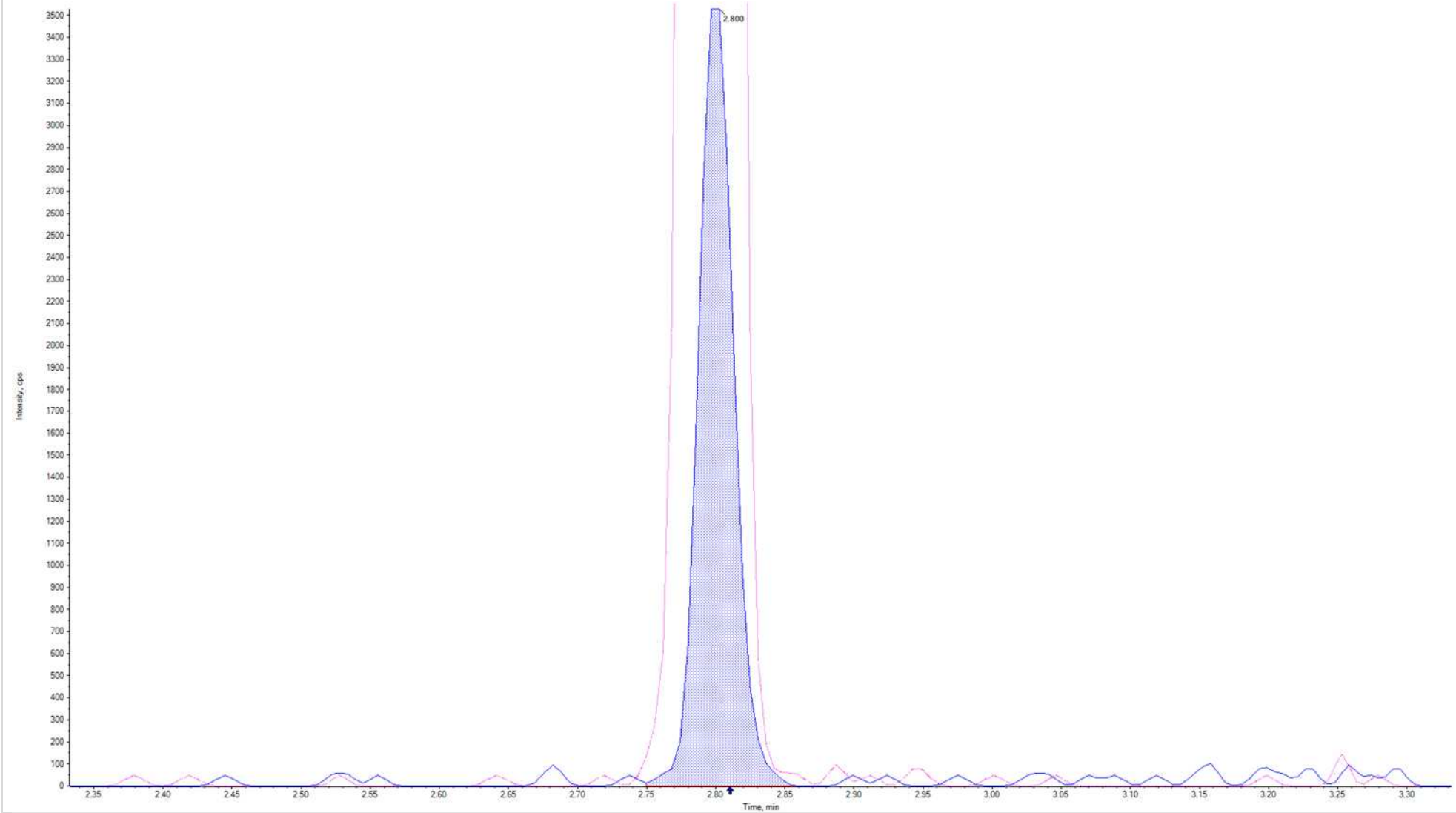
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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6:2FTS
Sample: IA1633STD-.1 S/N:96.8 Points Across peak:24



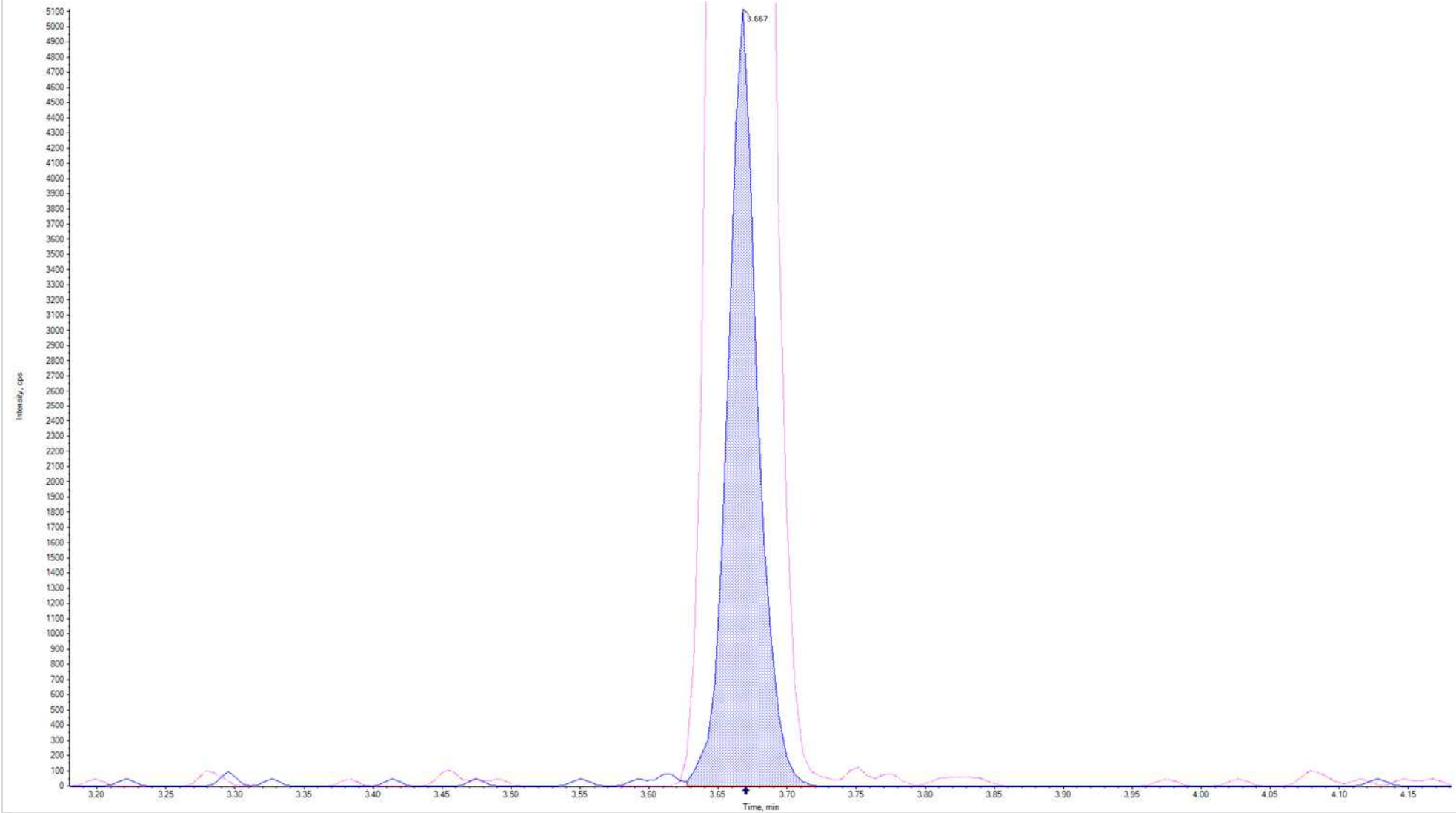
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

6:2FTS_2
Sample: IA1633STD-.1 S/N:70.7 Points Across peak:22



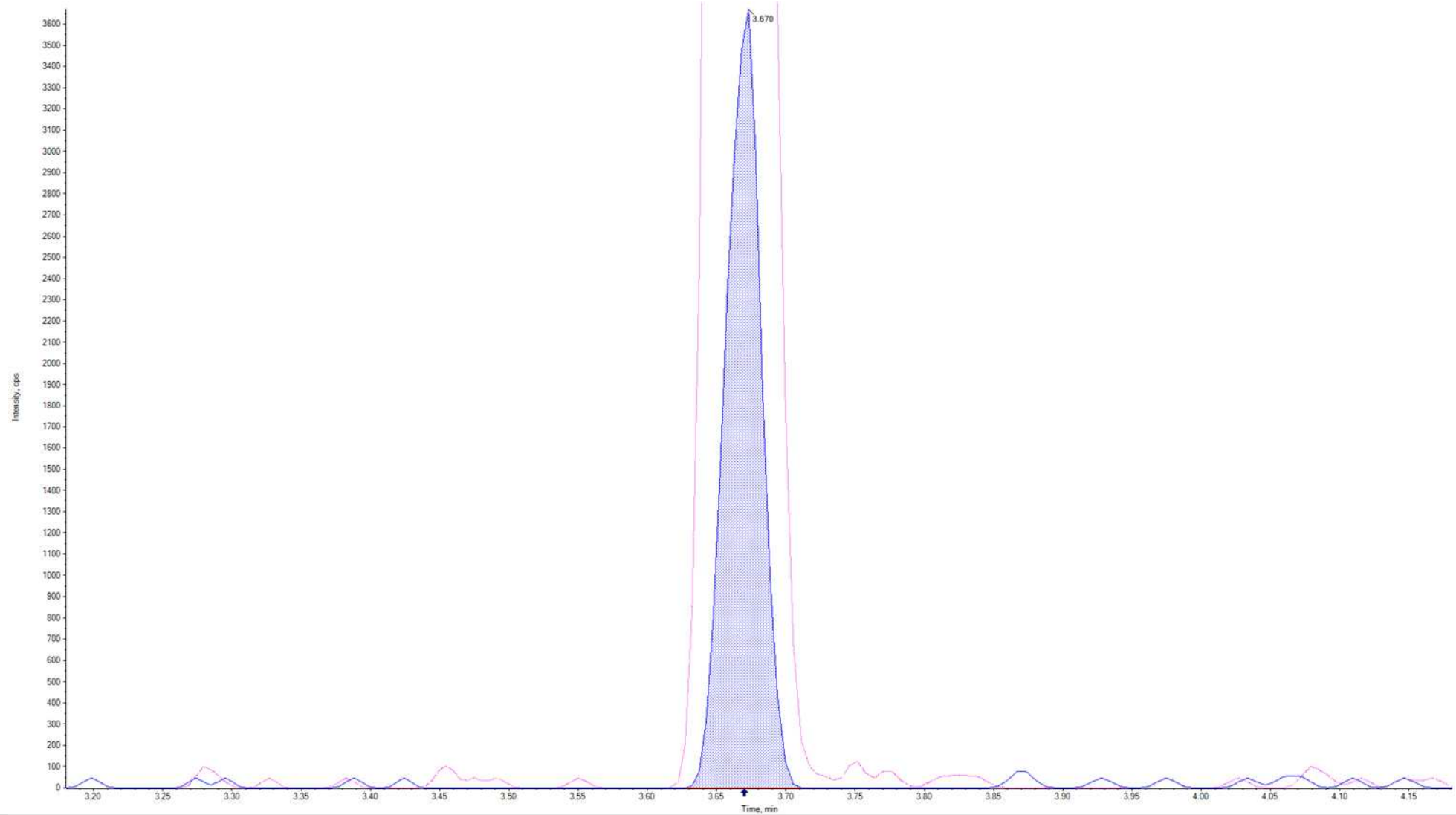
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

8:2FTS
Sample: IA1633STD-.1 S/N:102.6 Points Across peak:24



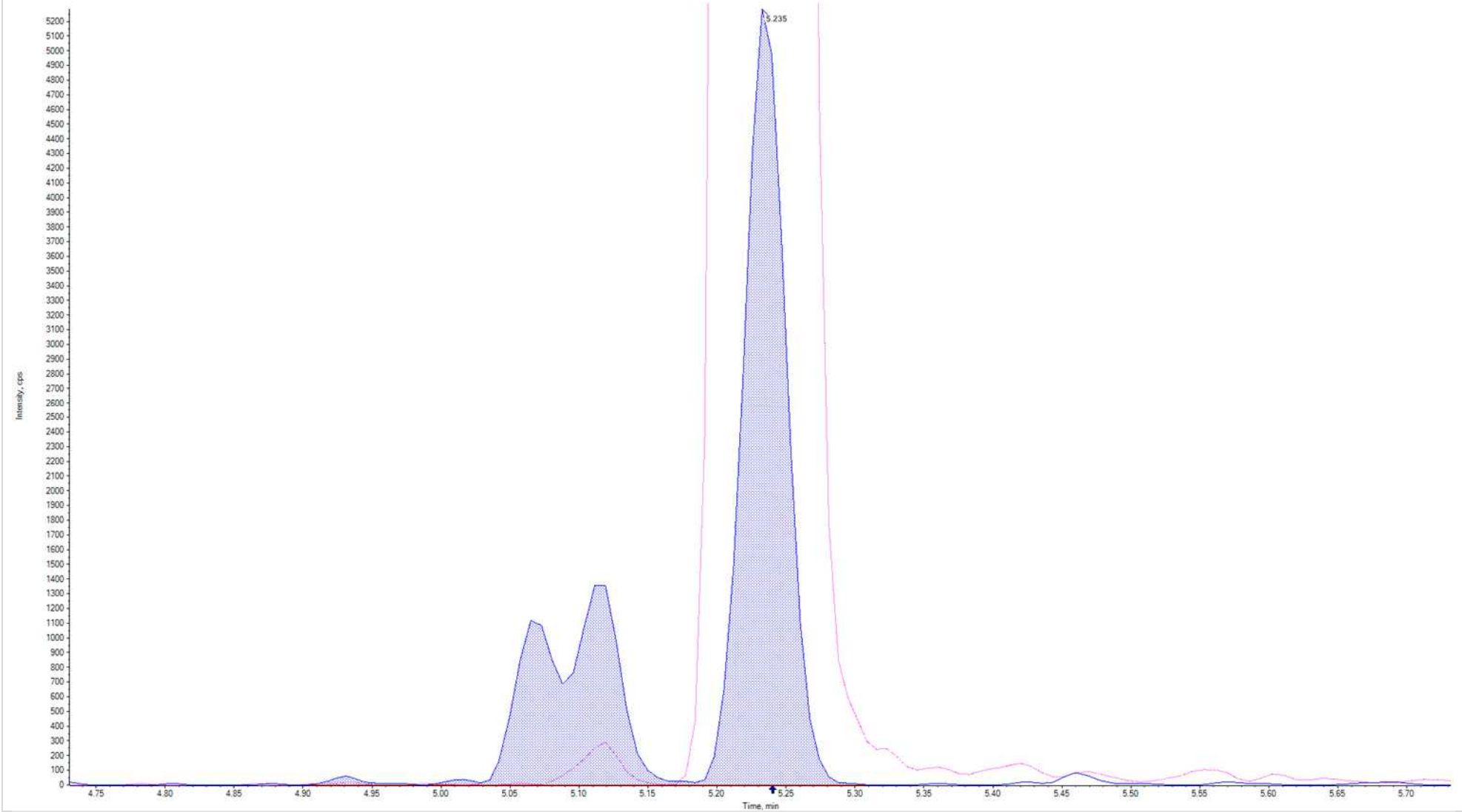
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

8:2FTS_2
Sample: IA1633STD-.1 S/N:73.6 Points Across peak:27



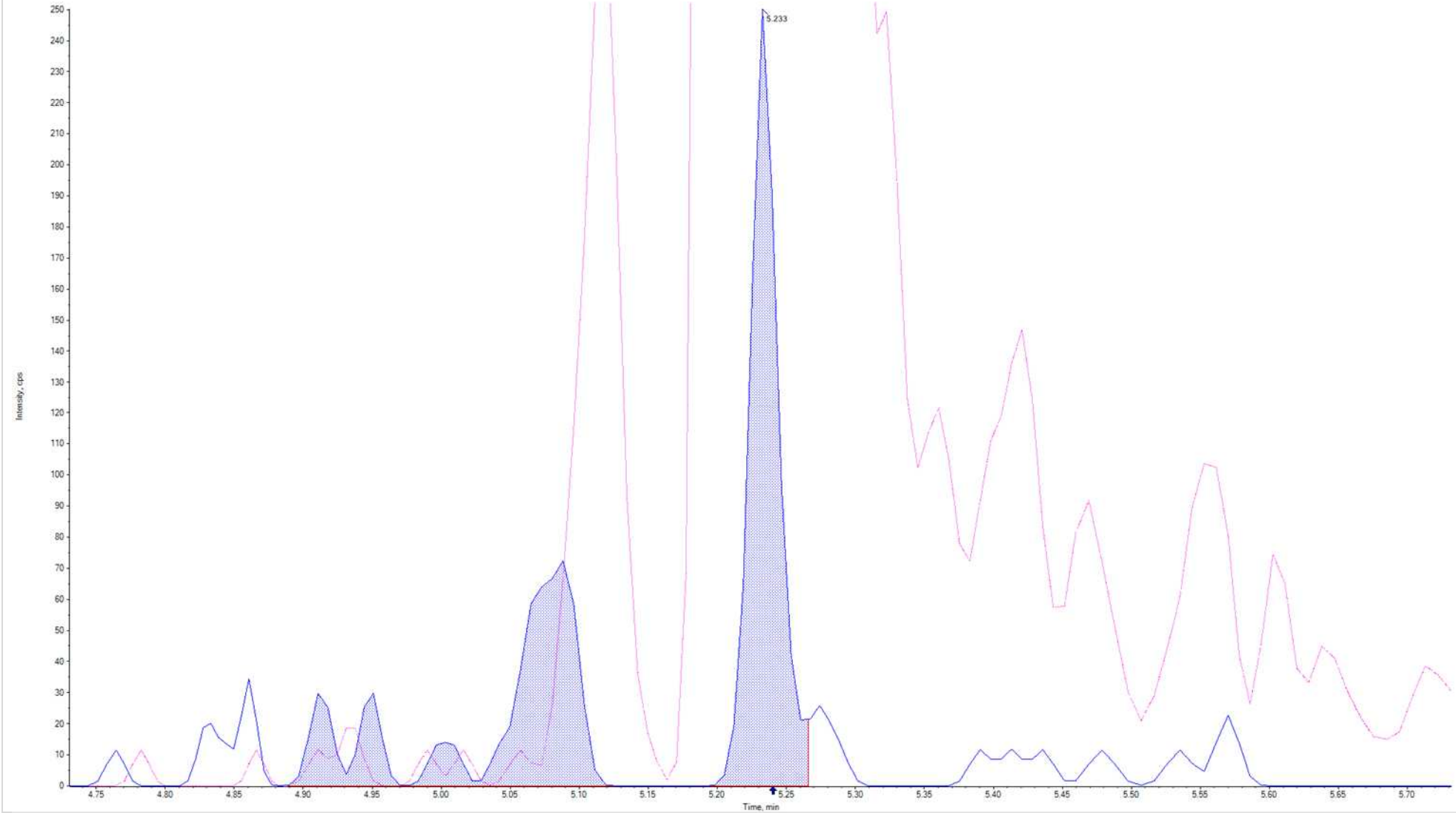
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOSA
Sample: IA1633STD-.1 S/N:269.5 Points Across peak:63



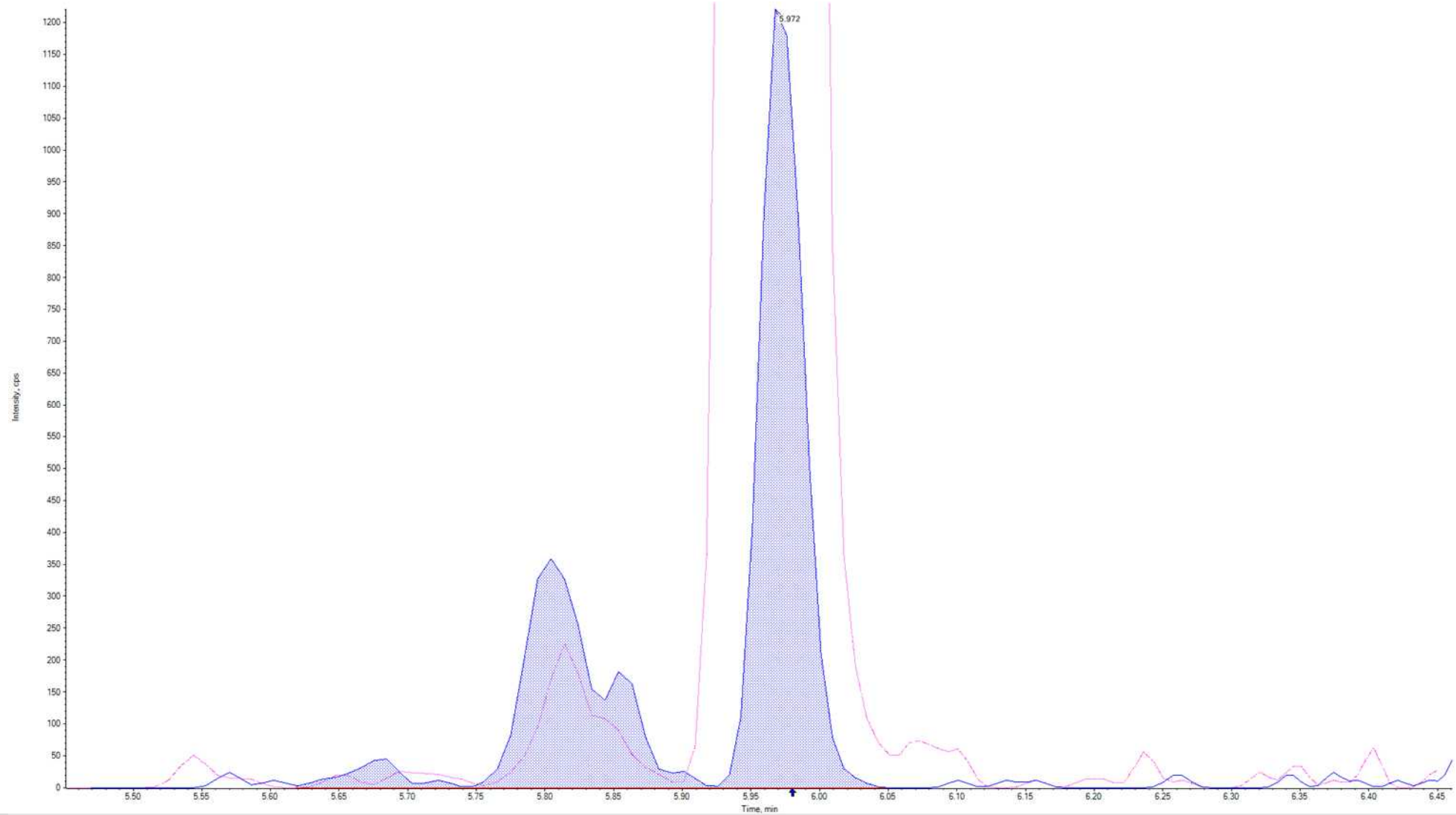
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFOSA_2
Sample: IA1633STD-.1 S/N:21.9 Points Across peak:56



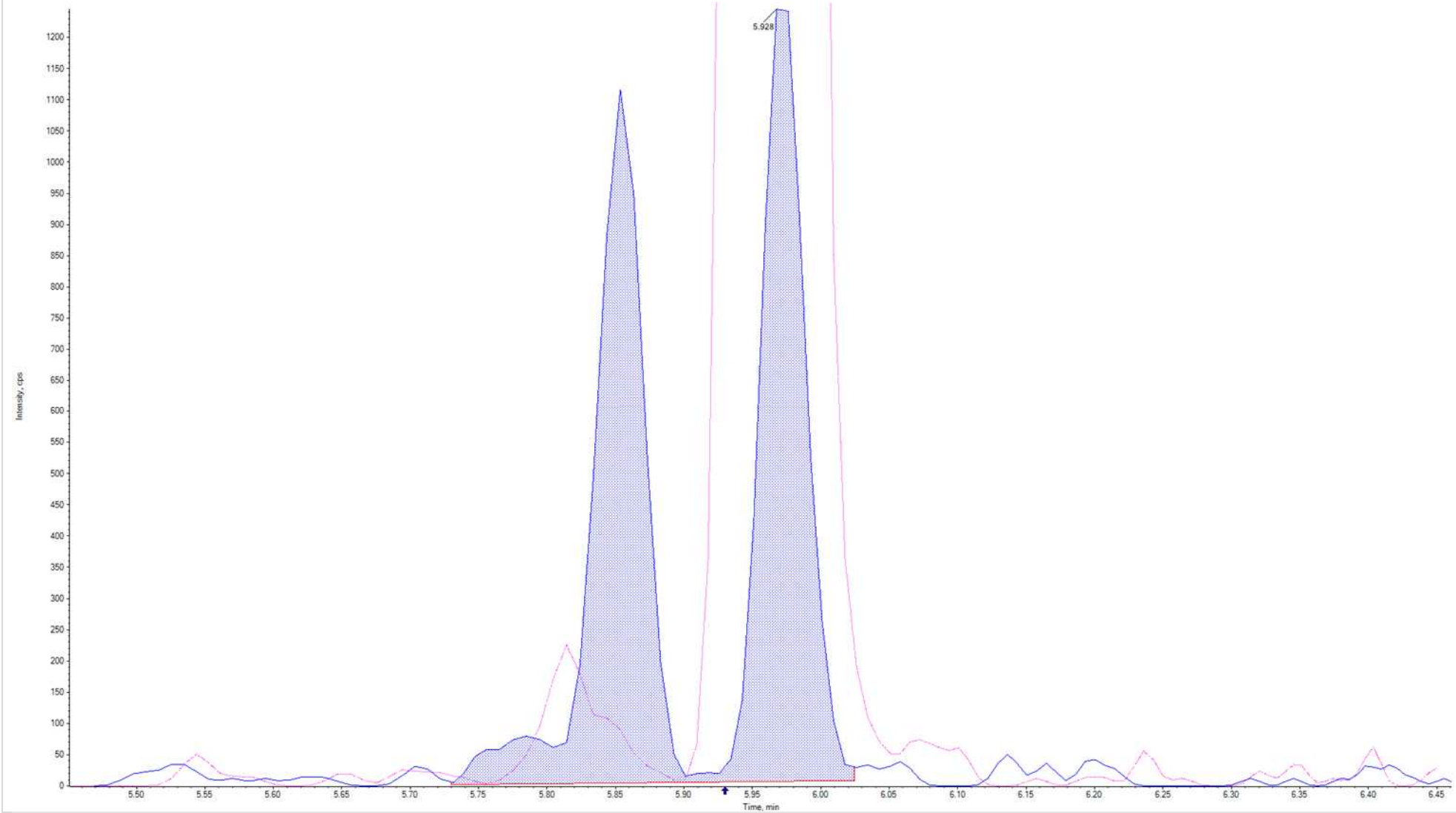
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Alpha Analytical LLC
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NMeFOSA
Sample: IA1633STD-.1 S/N:101.0 Points Across peak:51



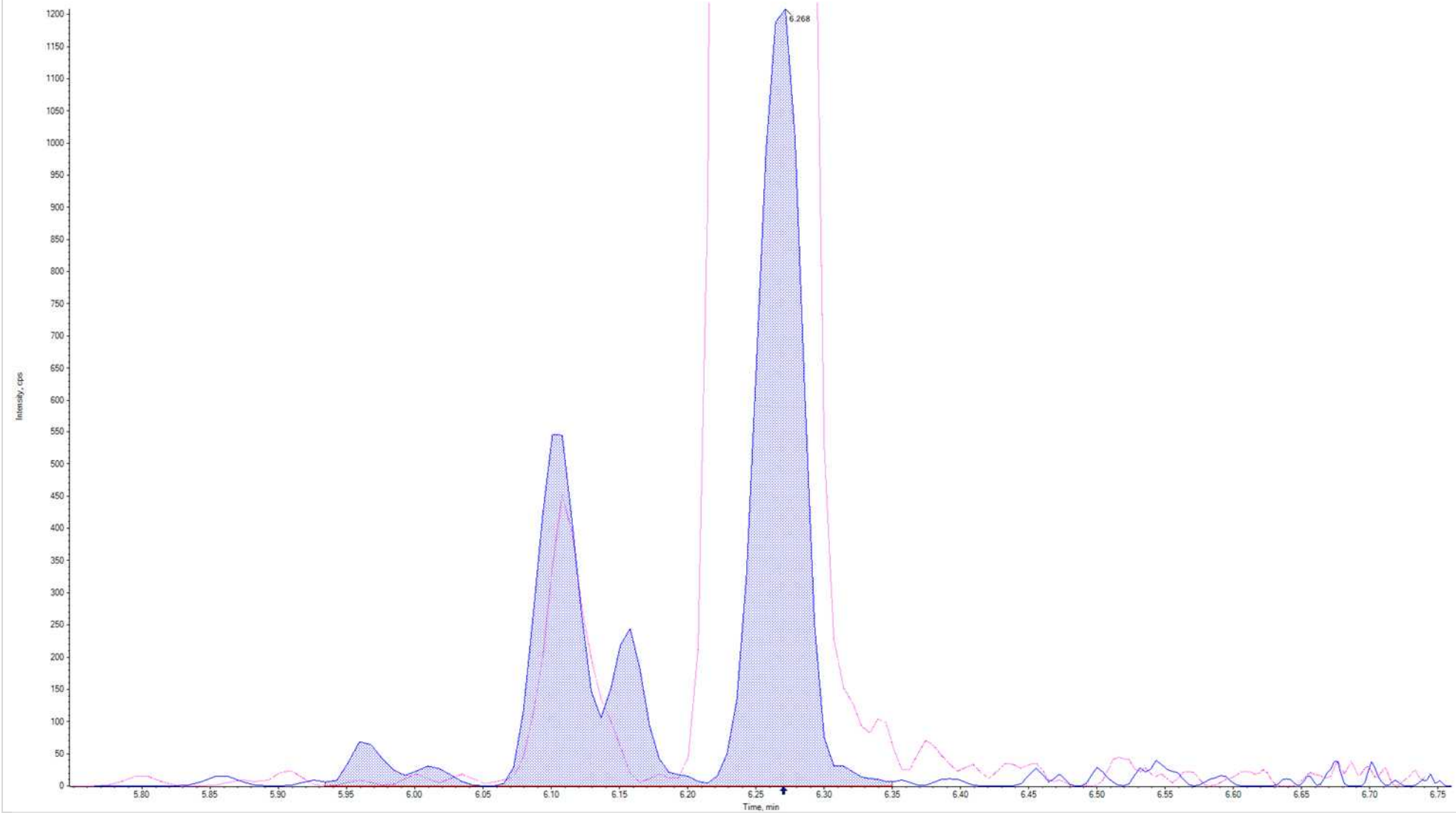
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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NMeFOSA_2
Sample: IA1633STD-.1 S/N:79.5 Points Across peak:35



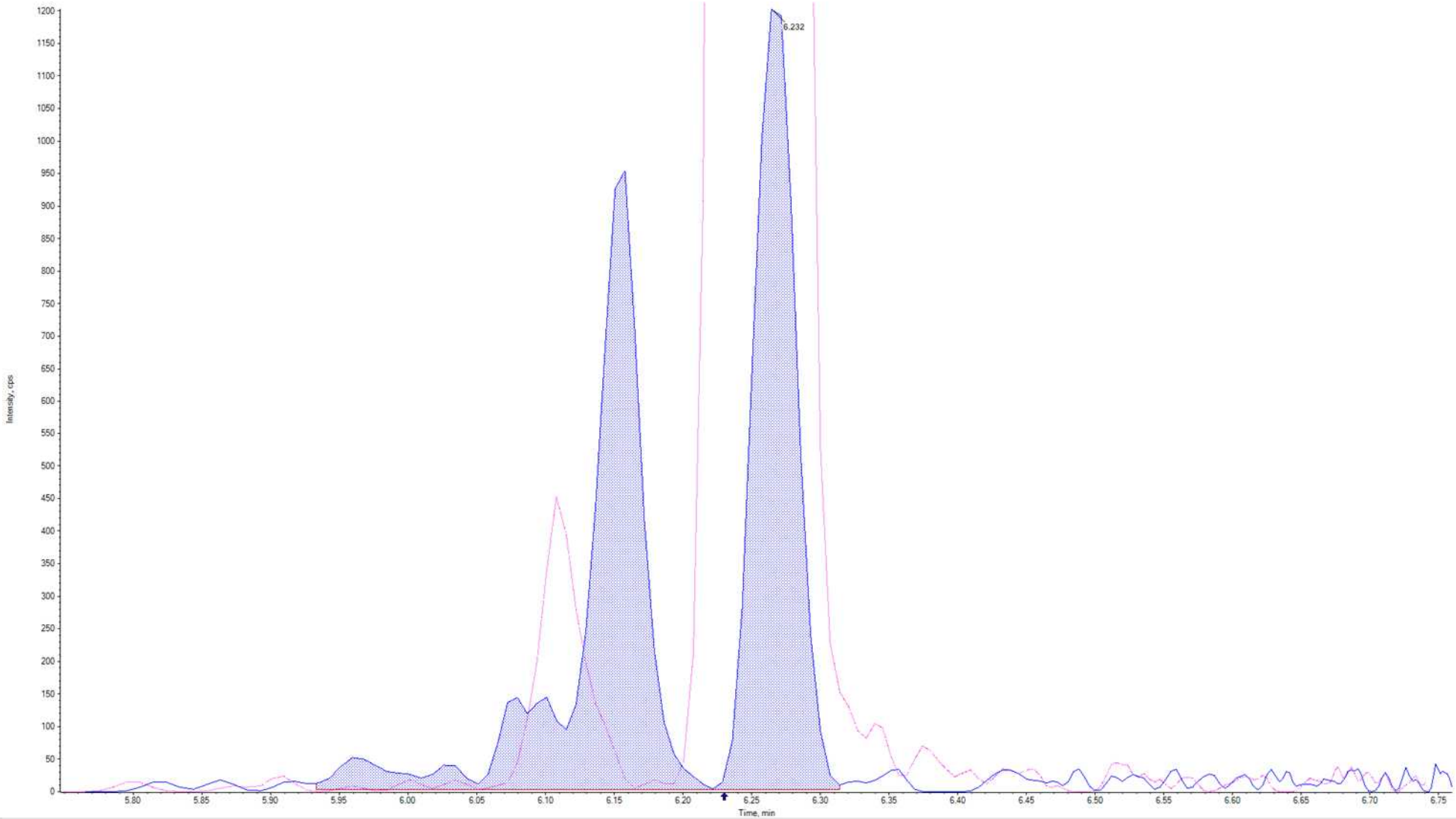
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Alpha Analytical LLC
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NEtFOSA
Sample: IA1633STD-.1 S/N:130.2 Points Across peak:59

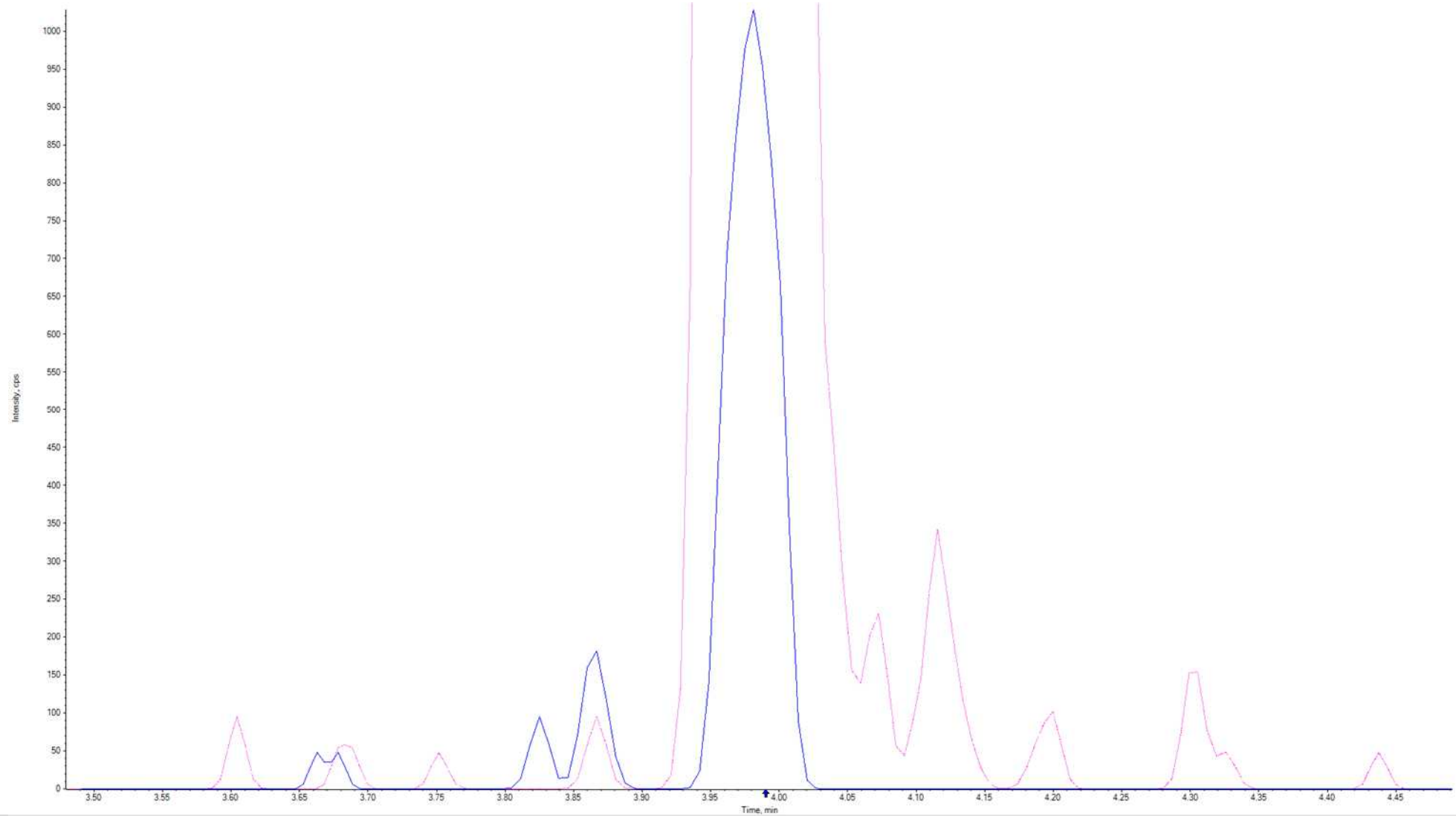


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSA_2
Sample: IA1633STD-.1 S/N:106.7 Points Across peak:53

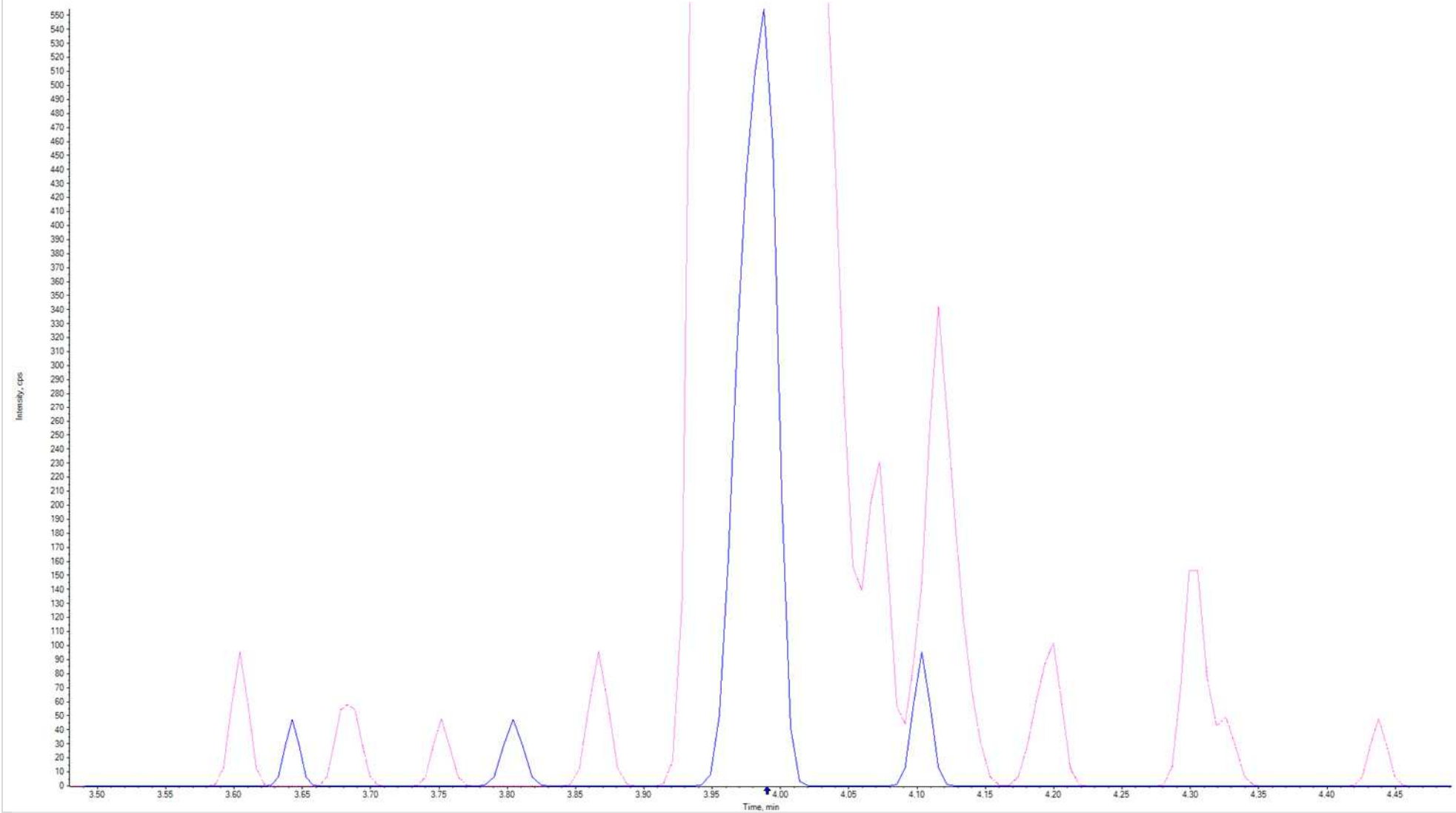


NMeFOSAA
Sample: IA1633STD-.1 S/N:N/A Points Across peak:N/A



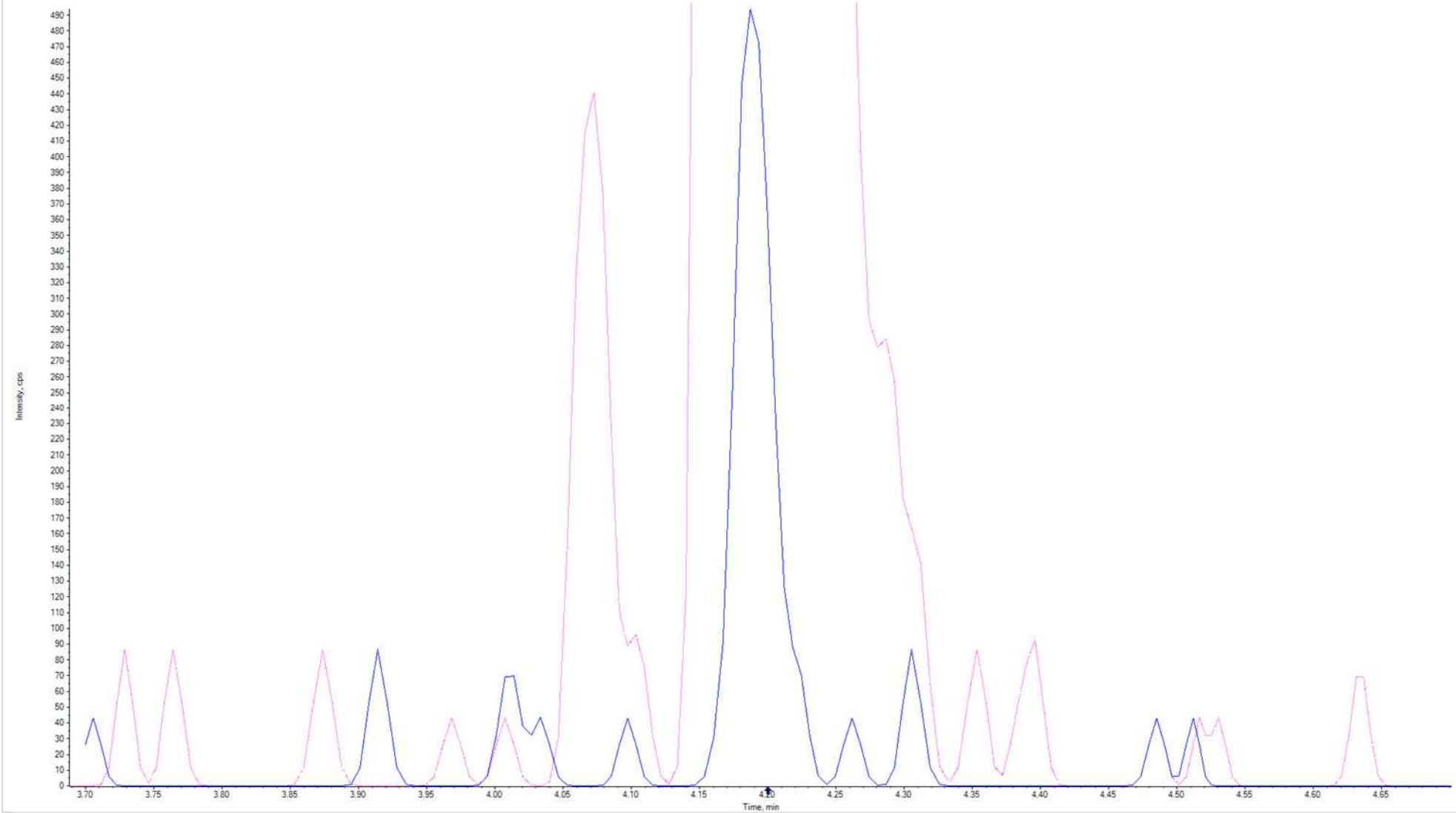
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSAA_2
Sample: IA1633STD-.1 S/N:N/A Points Across peak:N/A



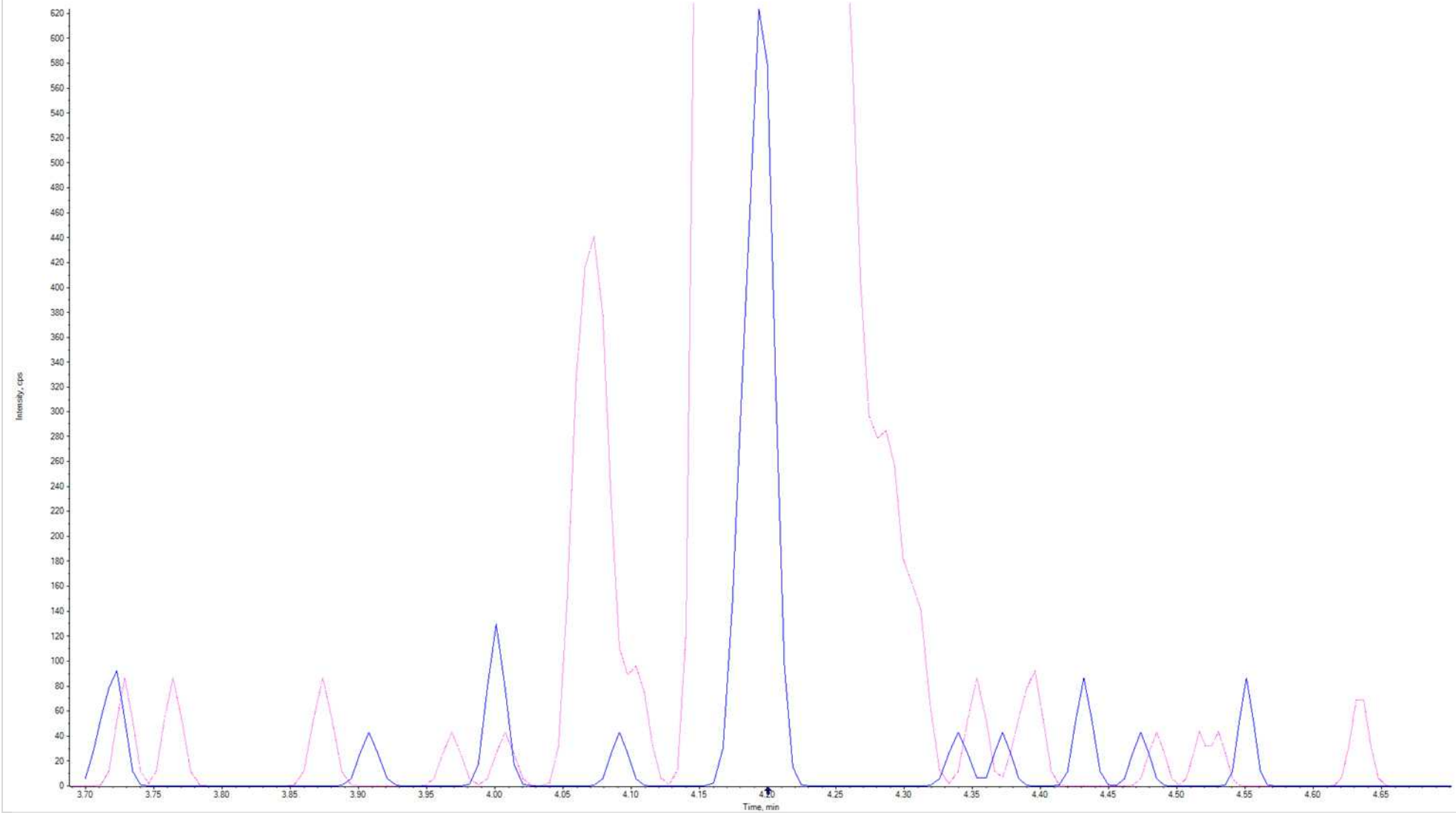
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSAA
Sample: IA1633STD-.1 S/N:N/A Points Across peak:N/A



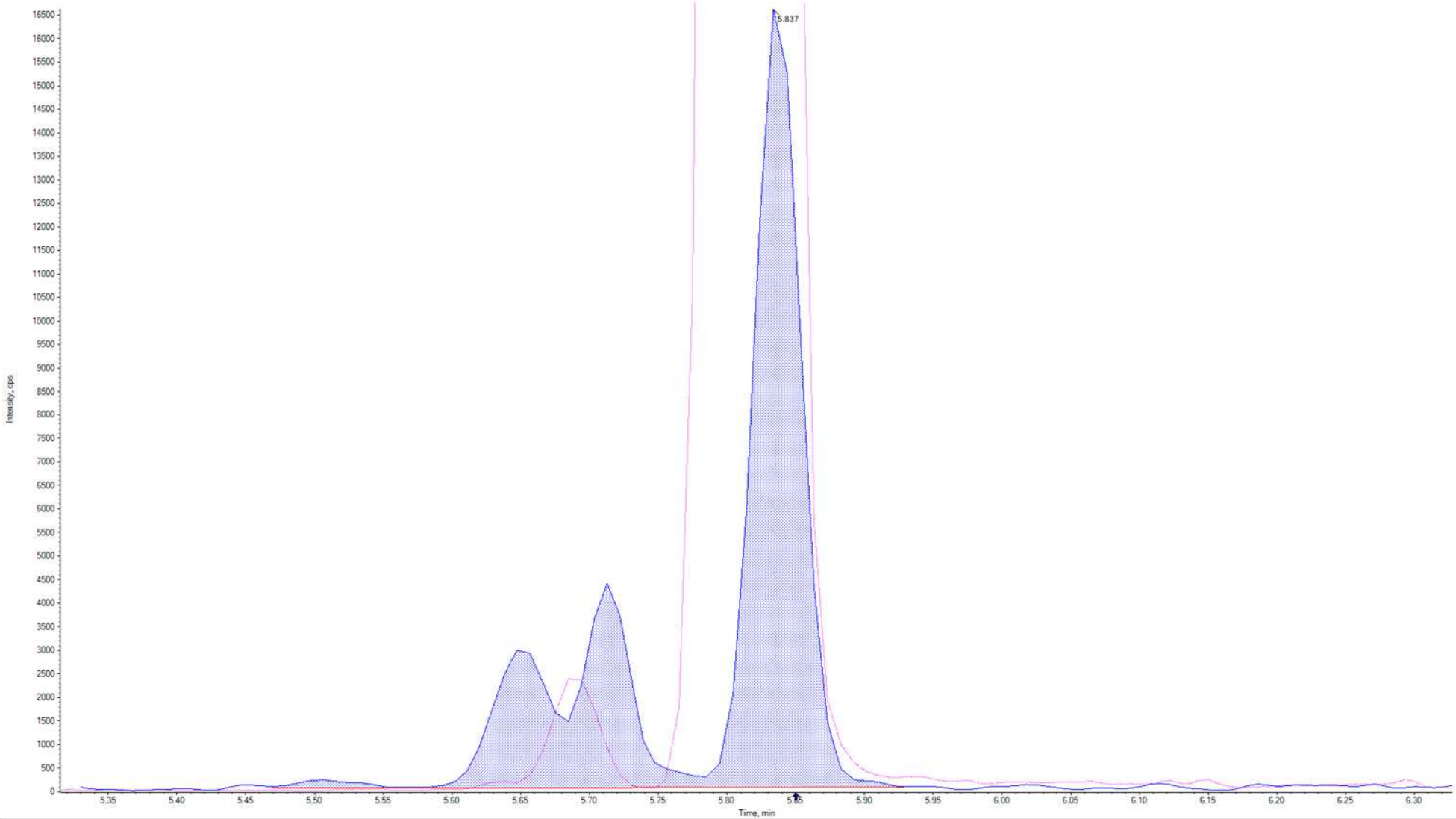
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSAA_2
Sample: IA1633STD-.1 S/N:N/A Points Across peak:N/A



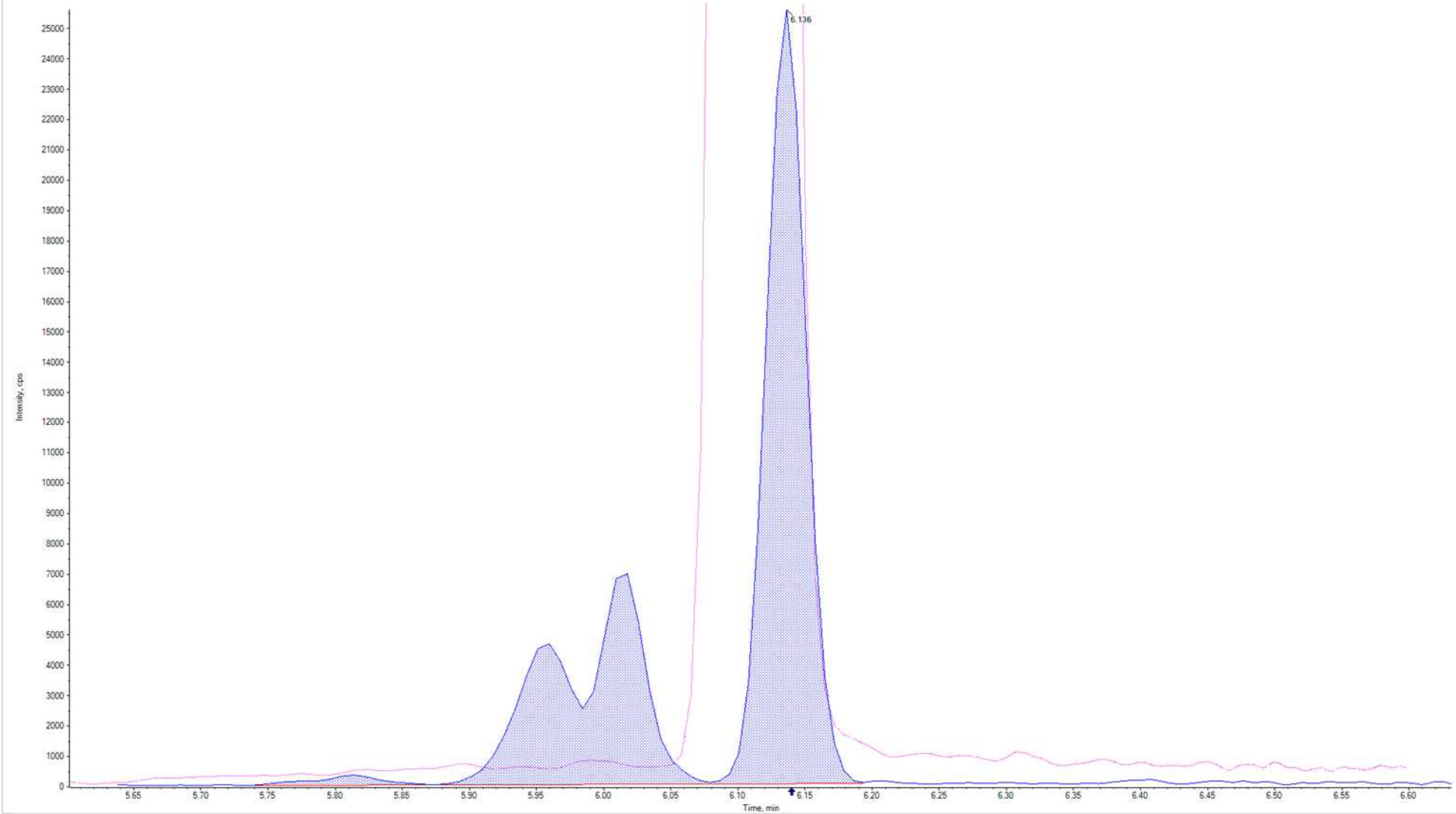
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSE
Sample: IA1633STD-.1 S/N:173.4 Points Across peak:52



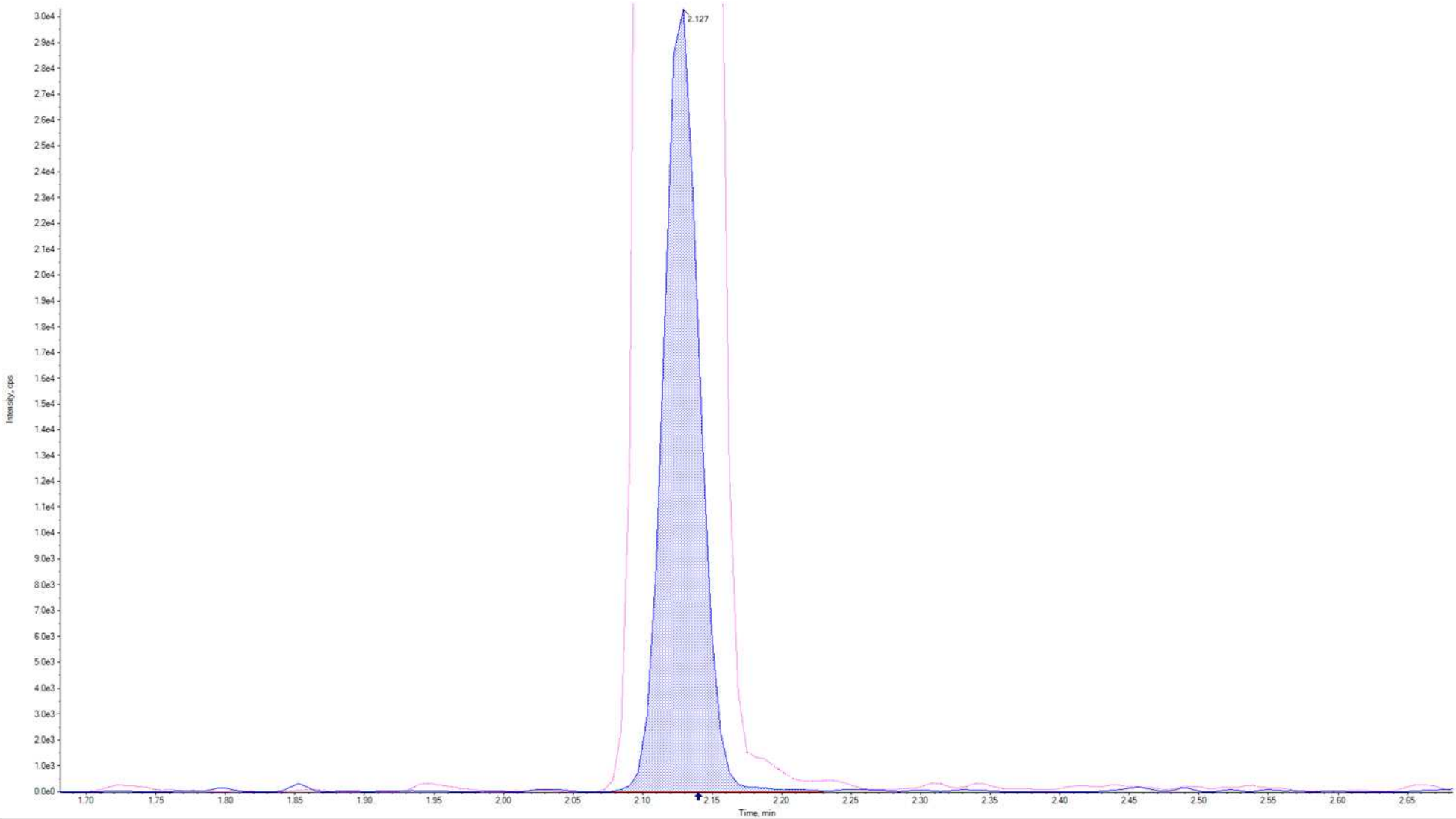
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSE
Sample: IA1633STD-.1 S/N:273.6 Points Across peak:57



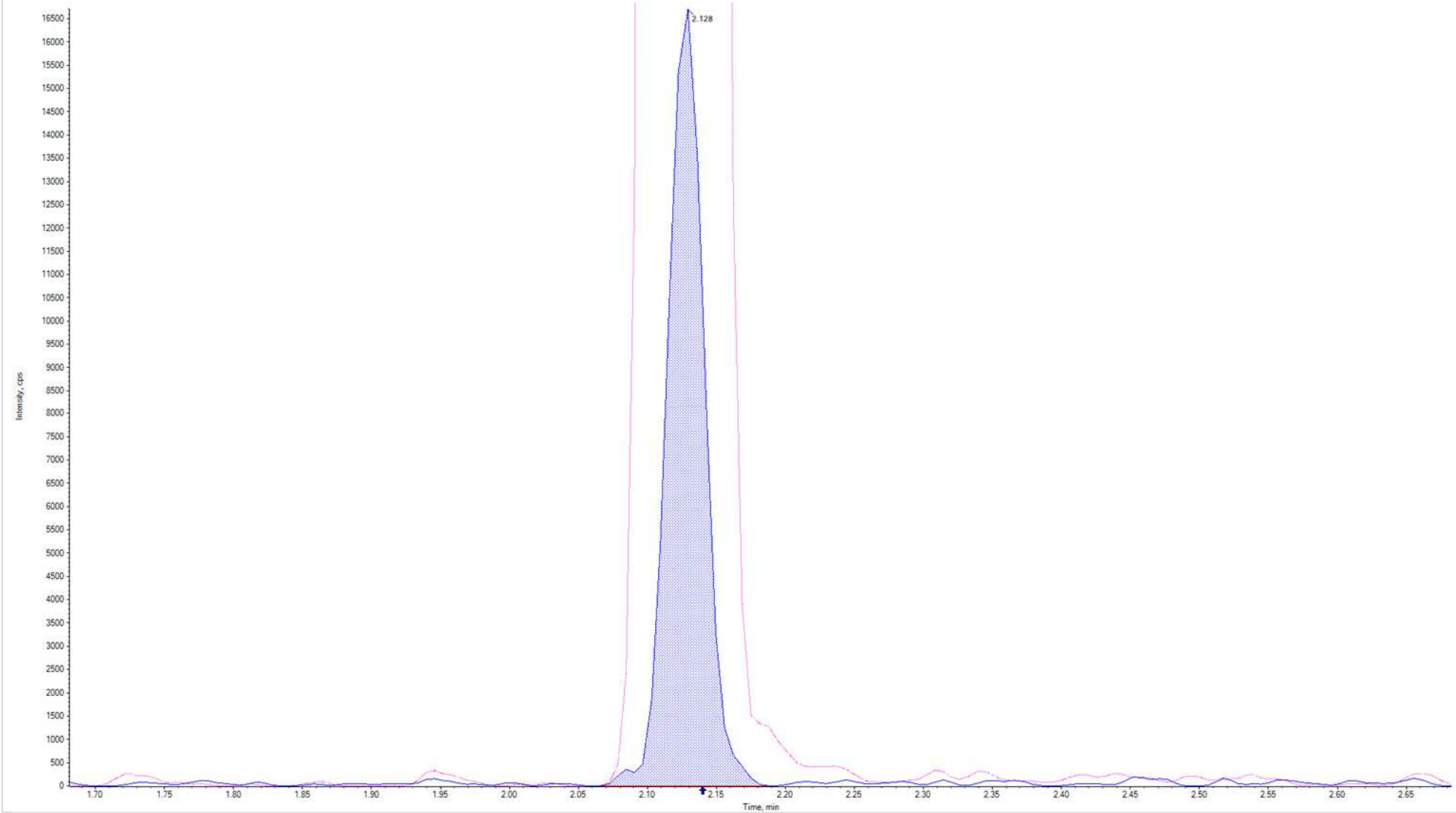
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

HFPO-DA
Sample: IA1633STD-.1 S/N:683.3 Points Across peak:26



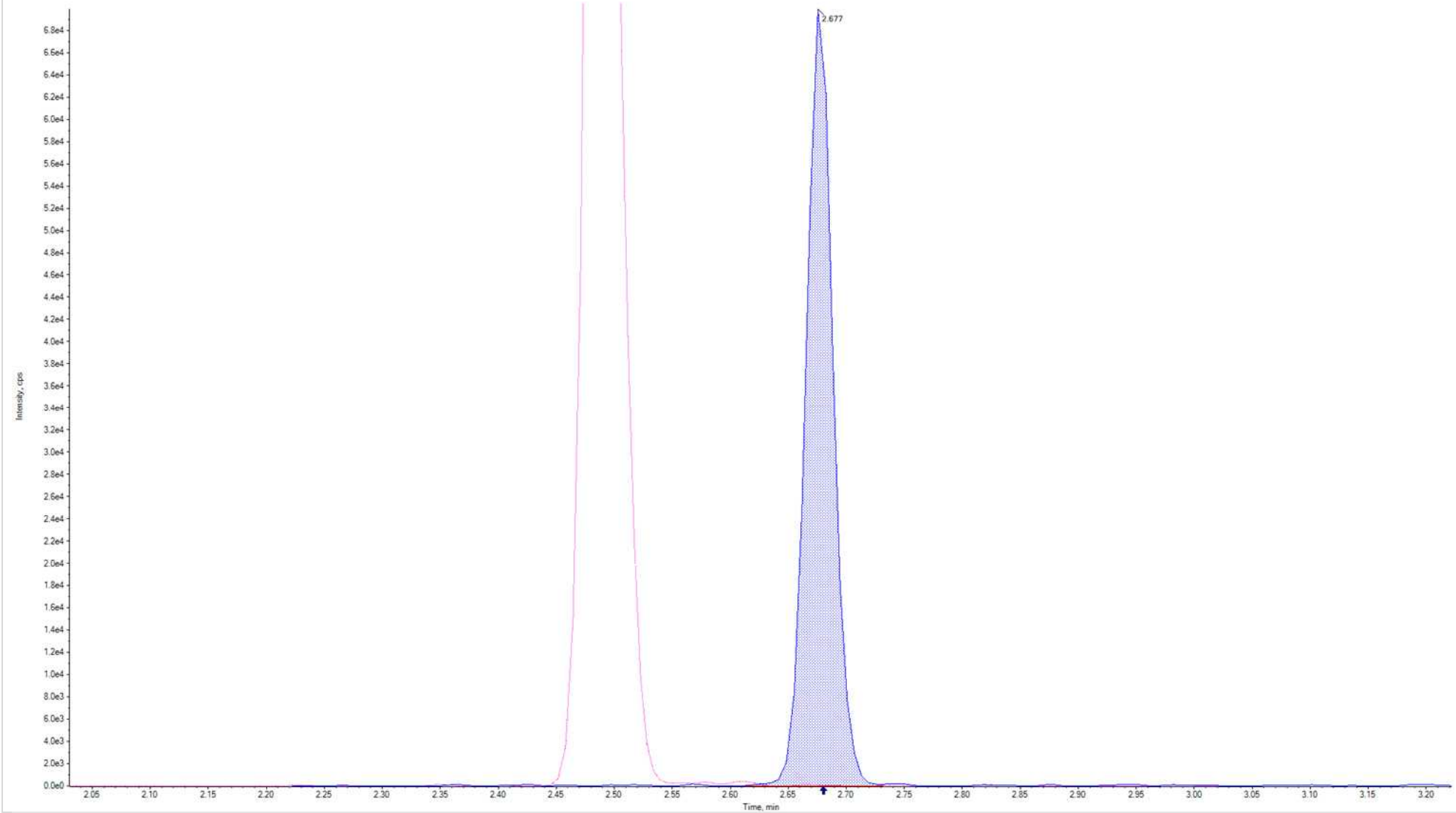
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

HFPO-DA_2
Sample: IA1633STD-.1 S/N:376.9 Points Across peak:21



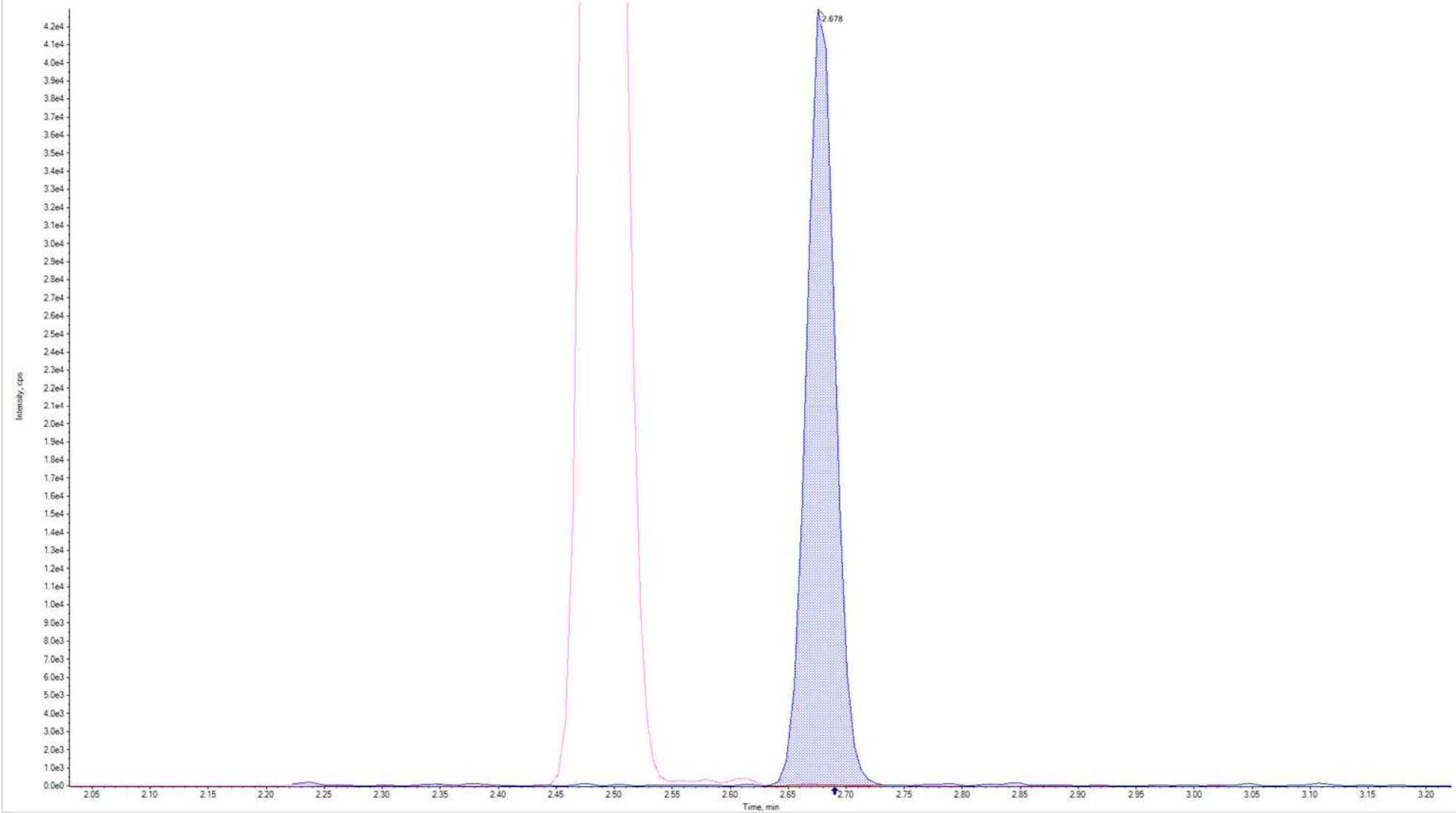
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
Last Altered: 3/4/2025 6:51:07 AM
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ADONA
Sample: IA1633STD-.1 S/N:1402.0 Points Across peak:22



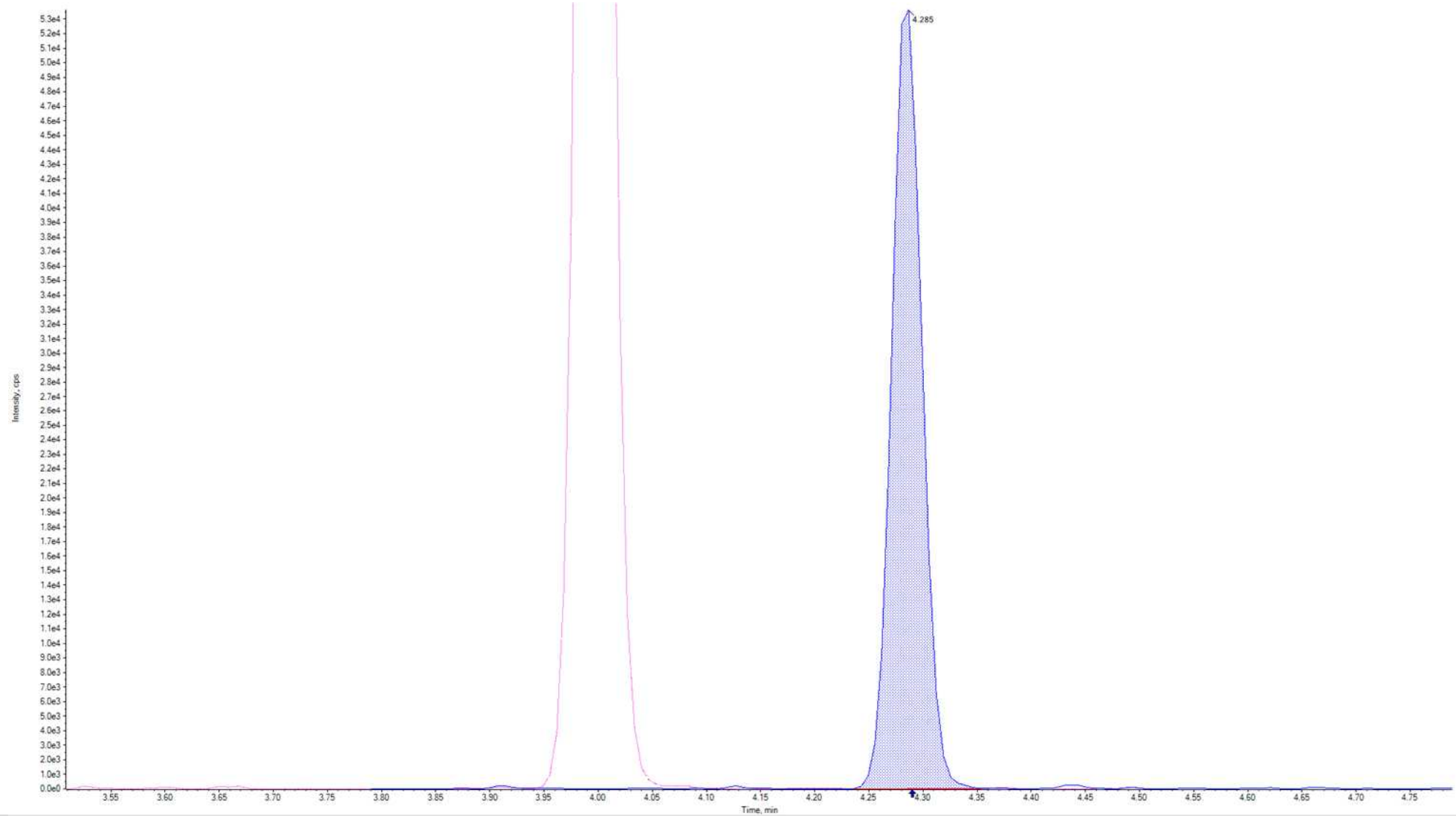
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
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ADONA_2
Sample: IA1633STD-.1 S/N:861.2 Points Across peak:18



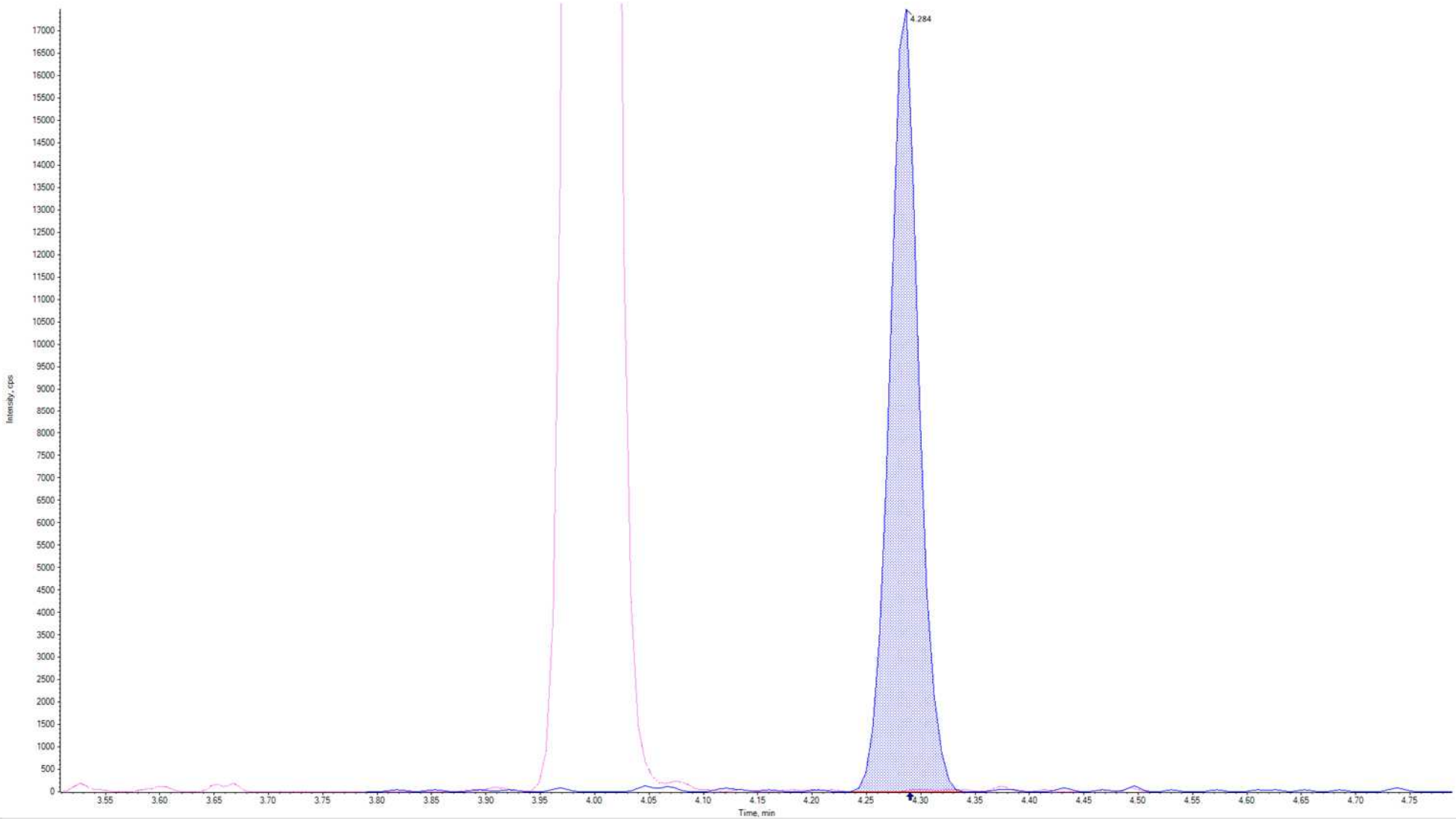
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Alpha Analytical LLC
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9Cl-PF3ONS
Sample: IA1633STD-.1 S/N:1210.0 Points Across peak:22



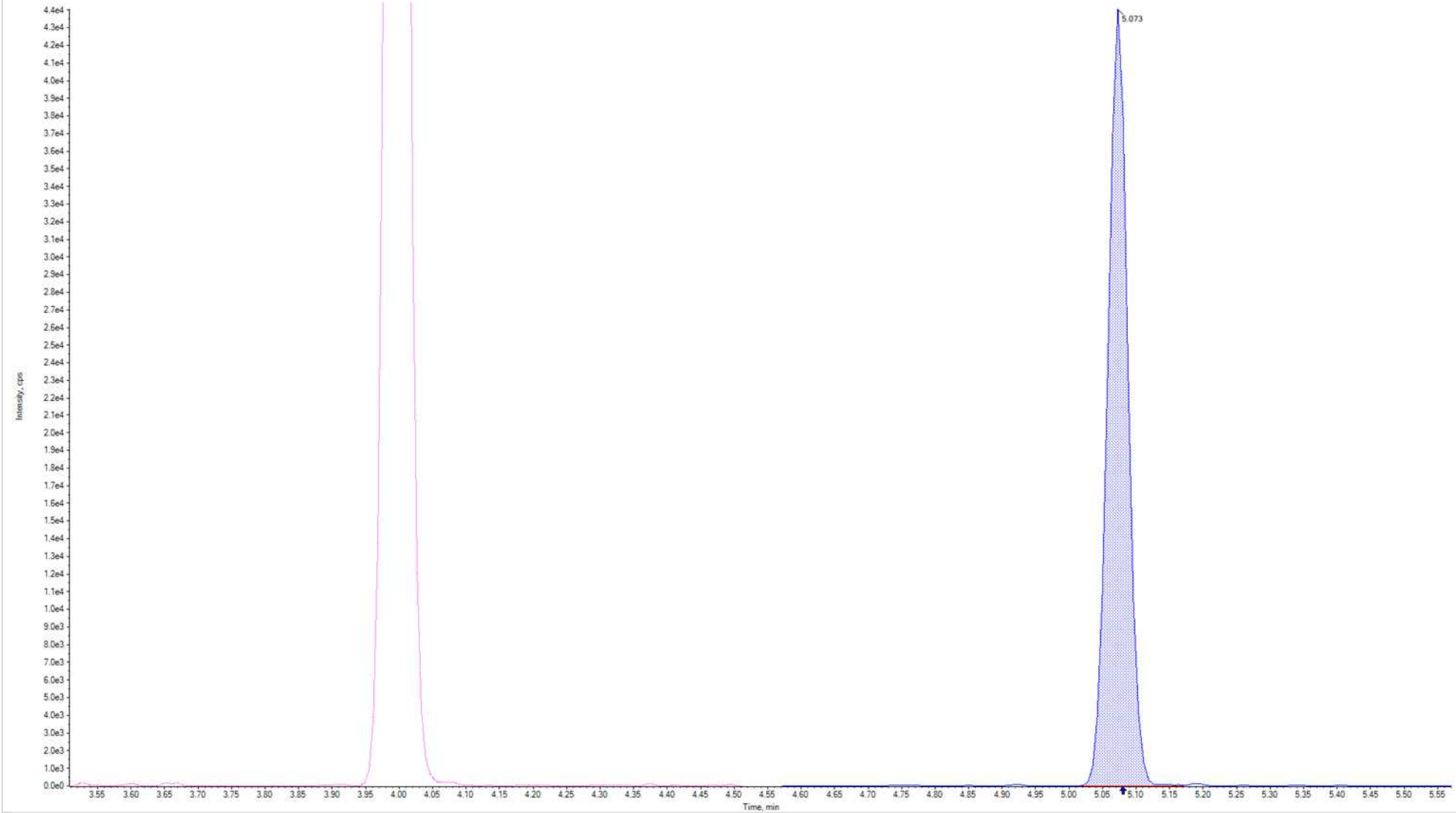
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Alpha Analytical LLC
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9Cl-PF3ONS_2
Sample: IA1633STD-.1 S/N:394.4 Points Across peak:20



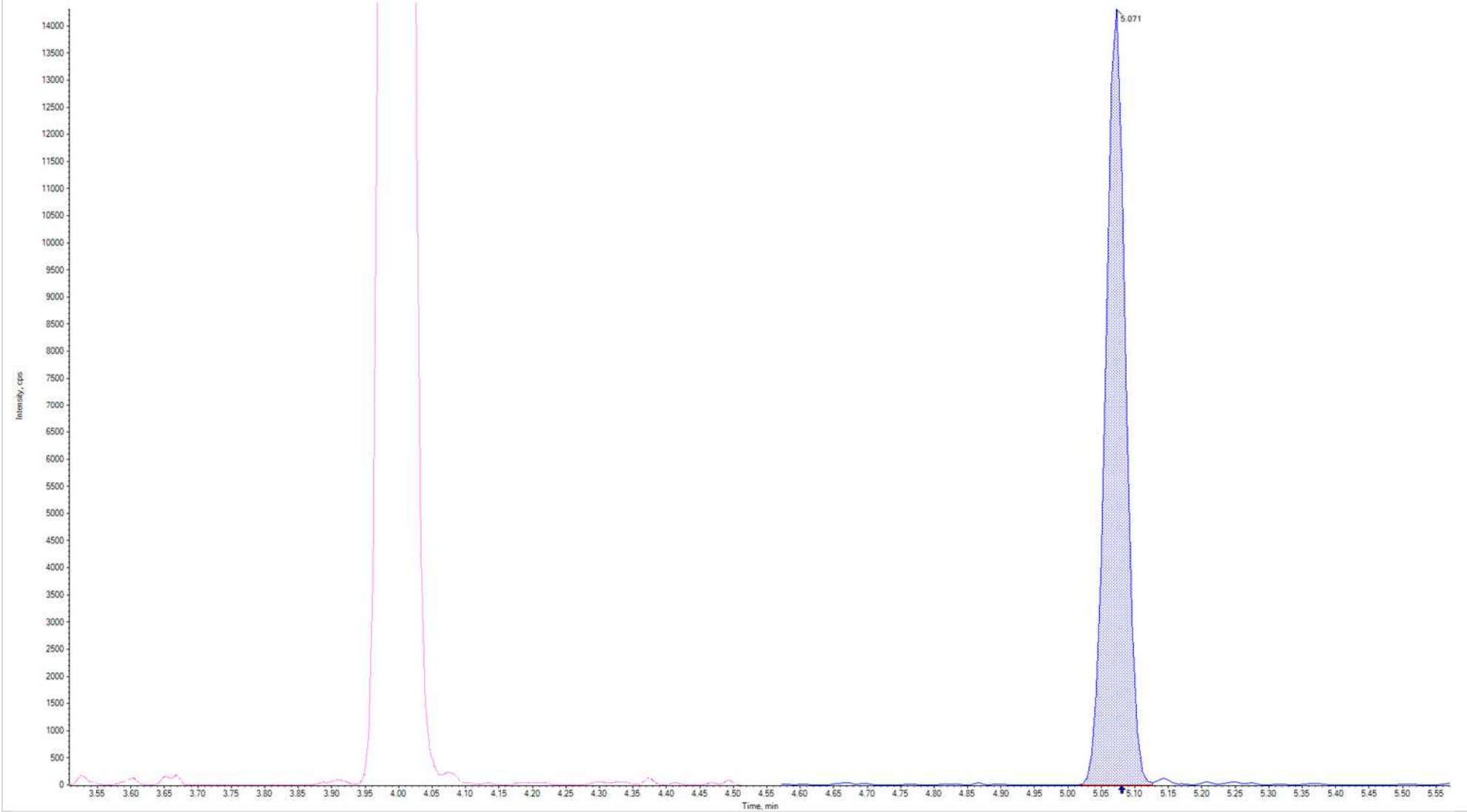
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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11Cl-PF3OUdS
Sample: IA1633STD-.1 S/N:2098.3 Points Across peak:24



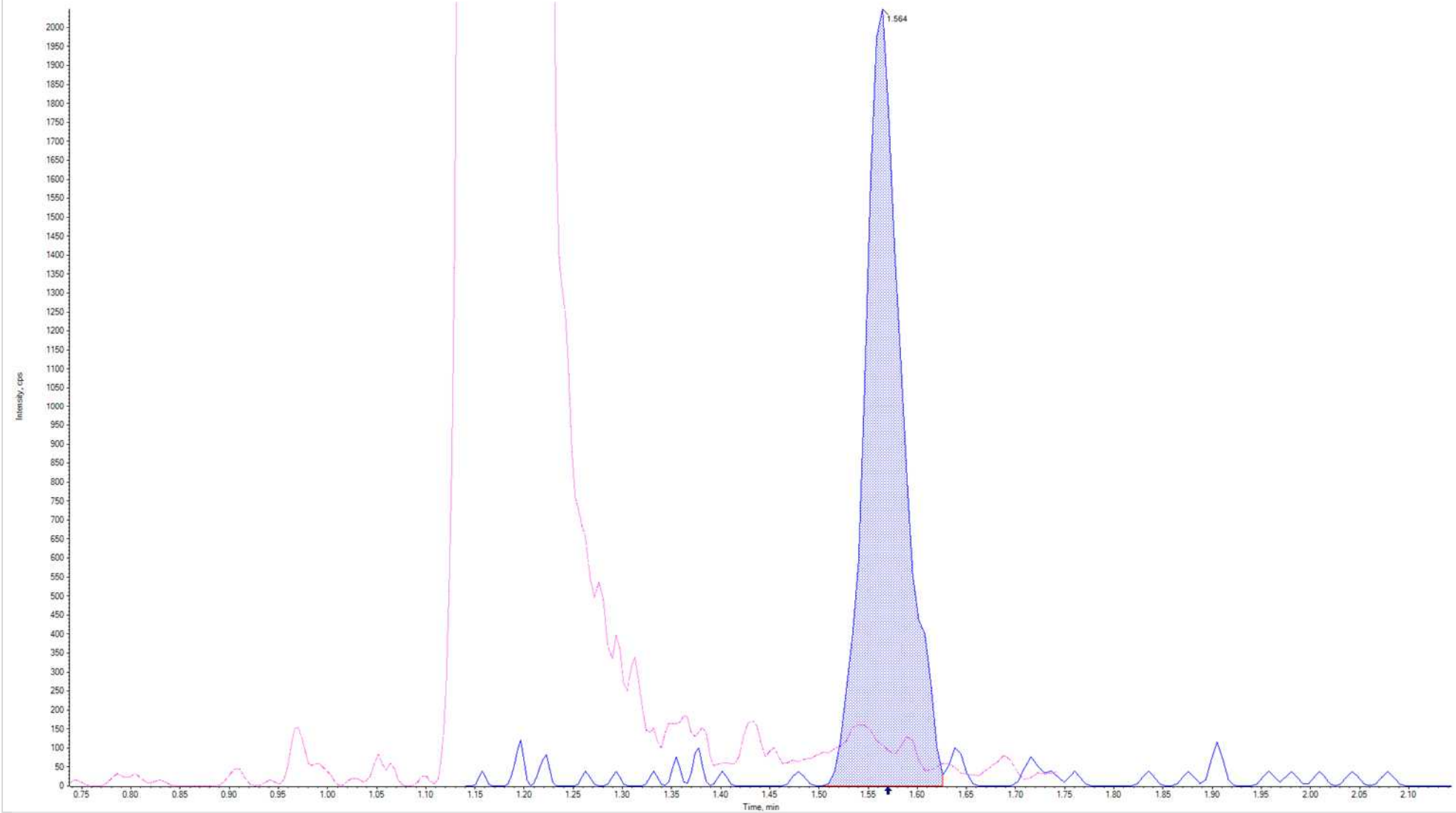
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_22.wiff2_1
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11Cl-PF3OUdS_2
Sample: IA1633STD-.1 S/N:681.5 Points Across peak:17



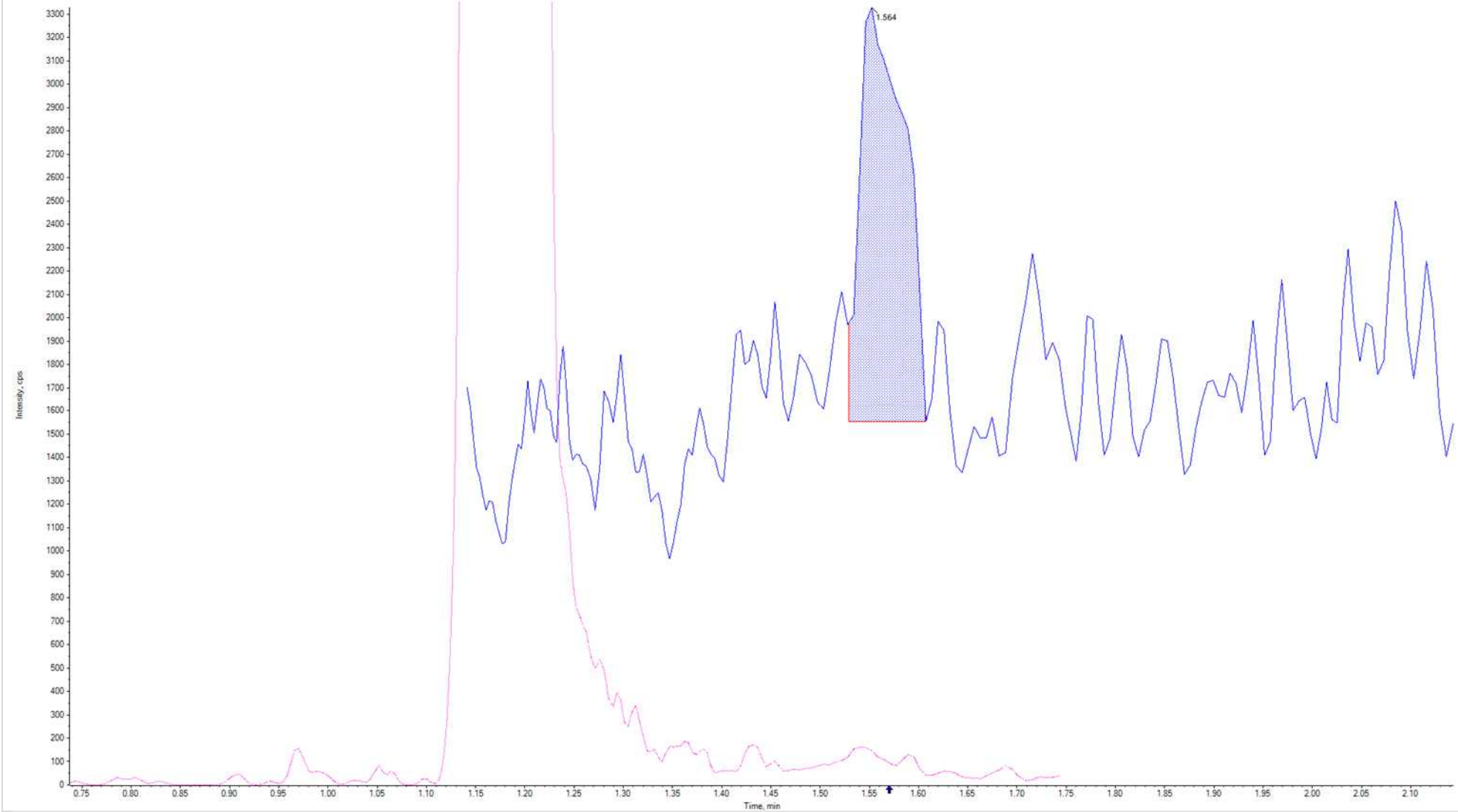
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Alpha Analytical LLC
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3:3FTCA
Sample: IA1633STD-.1 S/N:51.3 Points Across peak:22



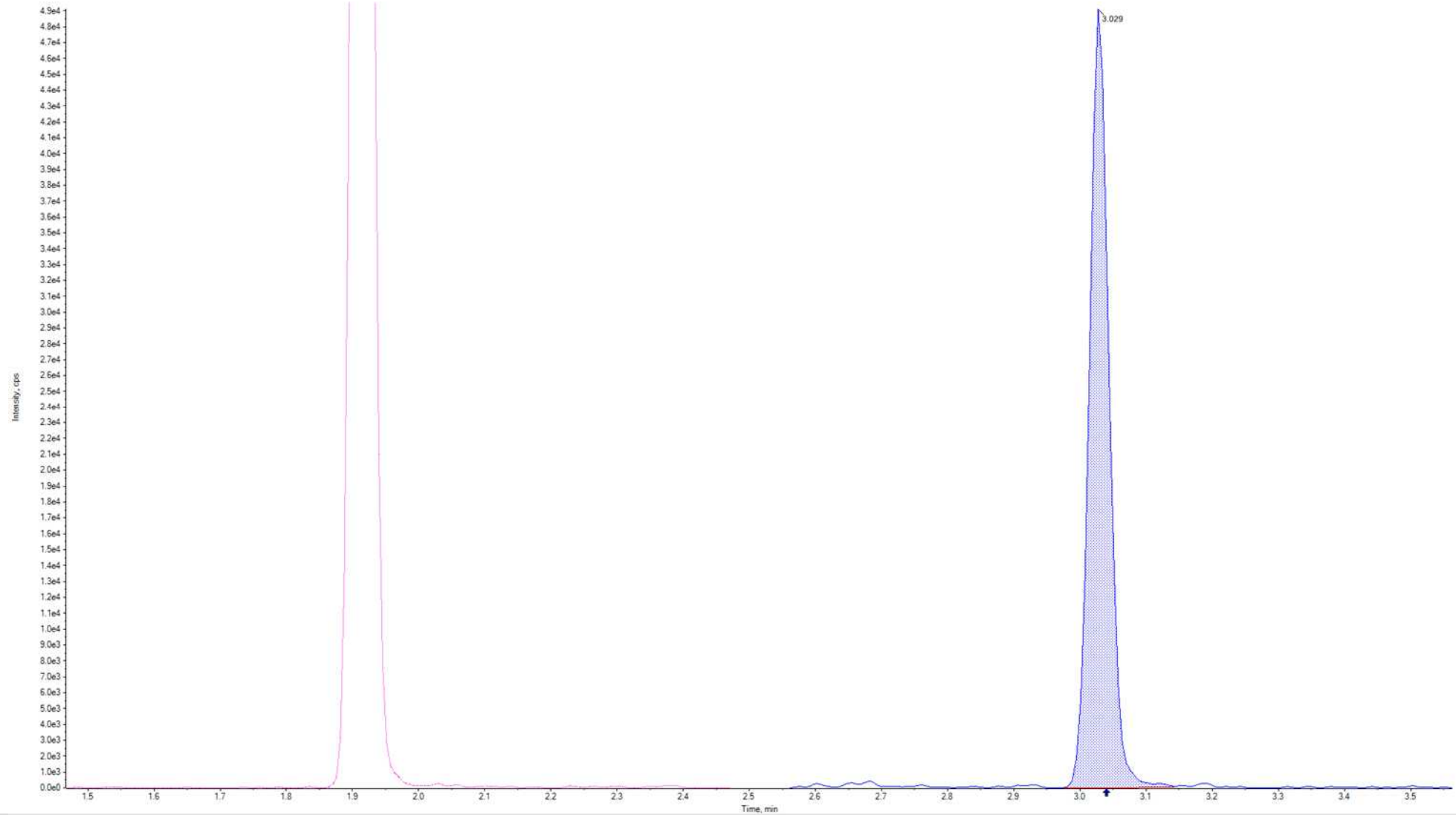
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Alpha Analytical LLC
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3:3FTCA_2
Sample: IA1633STD-.1 S/N:19.1 Points Across peak:14



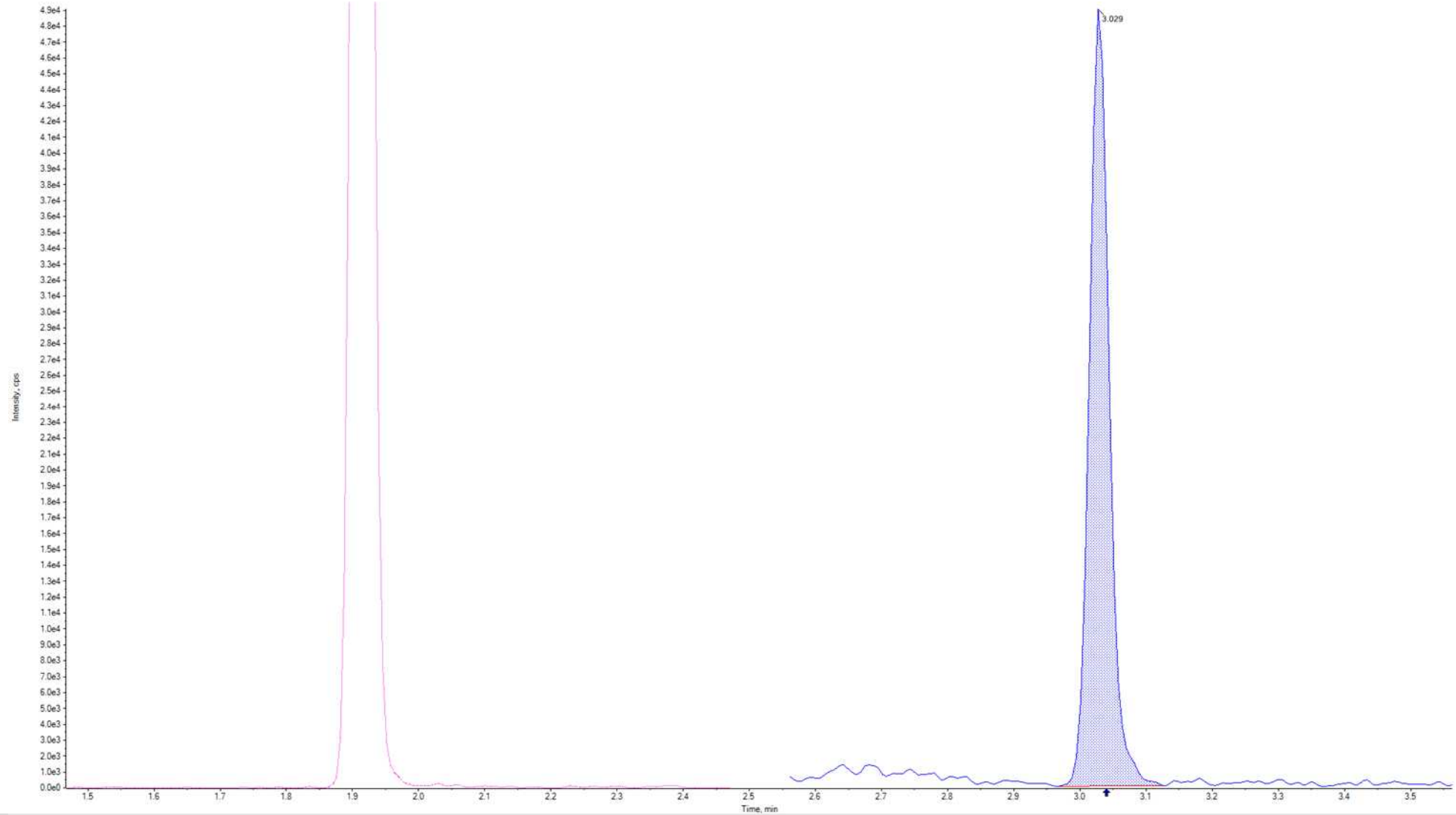
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Alpha Analytical LLC
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5:3FTCA
Sample: IA1633STD-.1 S/N:1107.6 Points Across peak:29



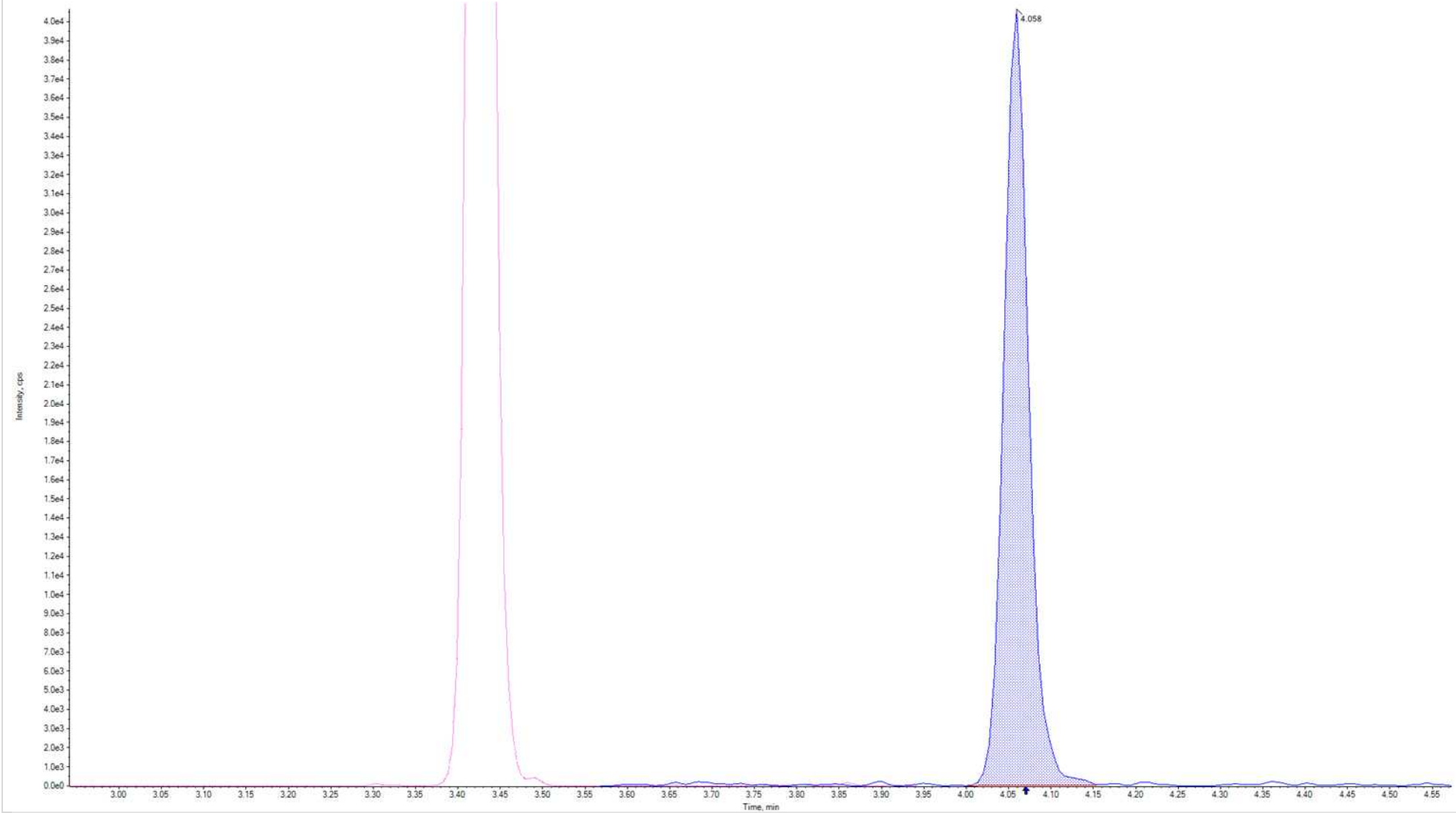
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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5:3FTCA_2
Sample: IA1633STD-.1 S/N:866.2 Points Across peak:27



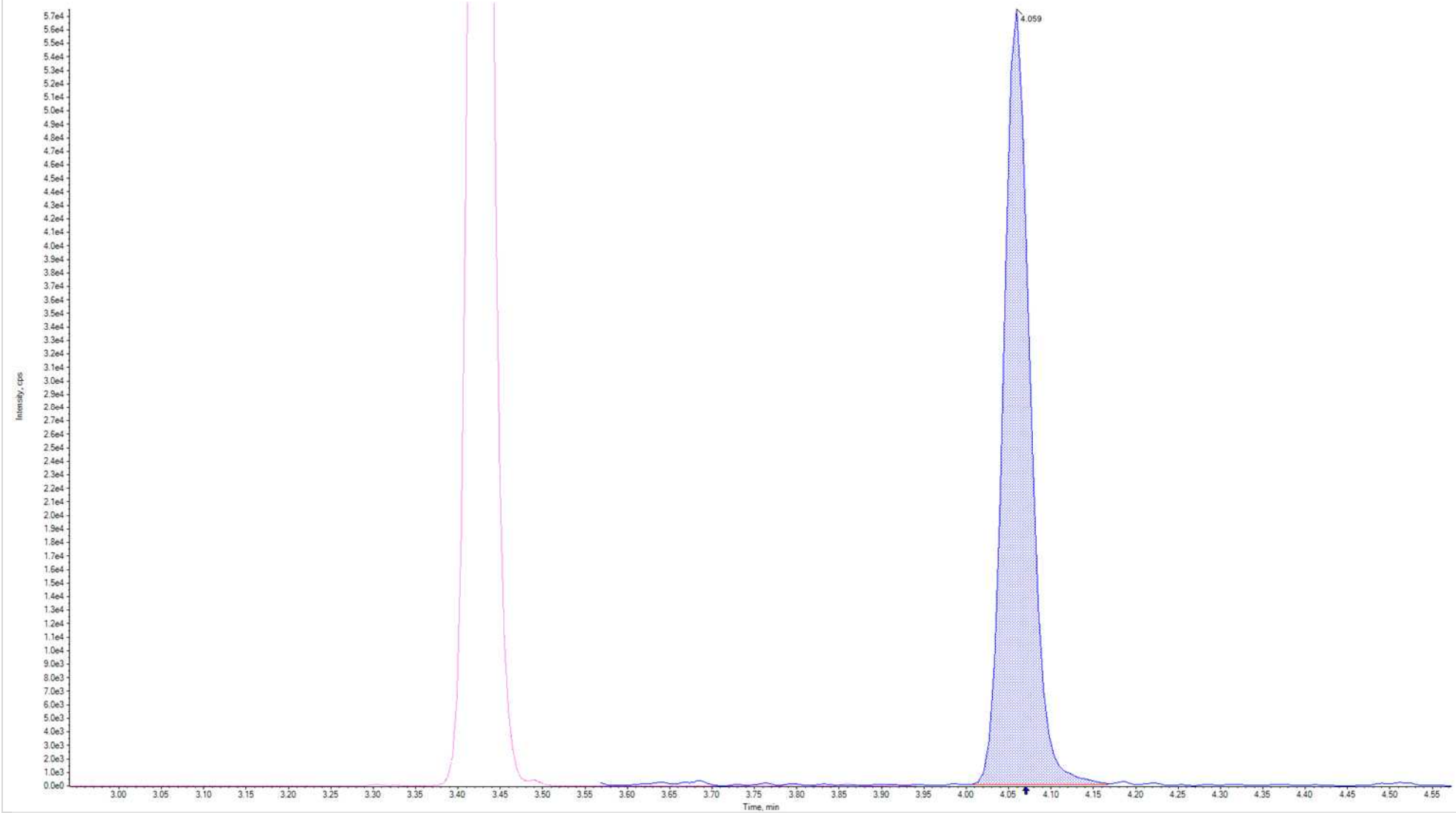
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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7:3FTCA
Sample: IA1633STD-.1 S/N:1120.2 Points Across peak:26



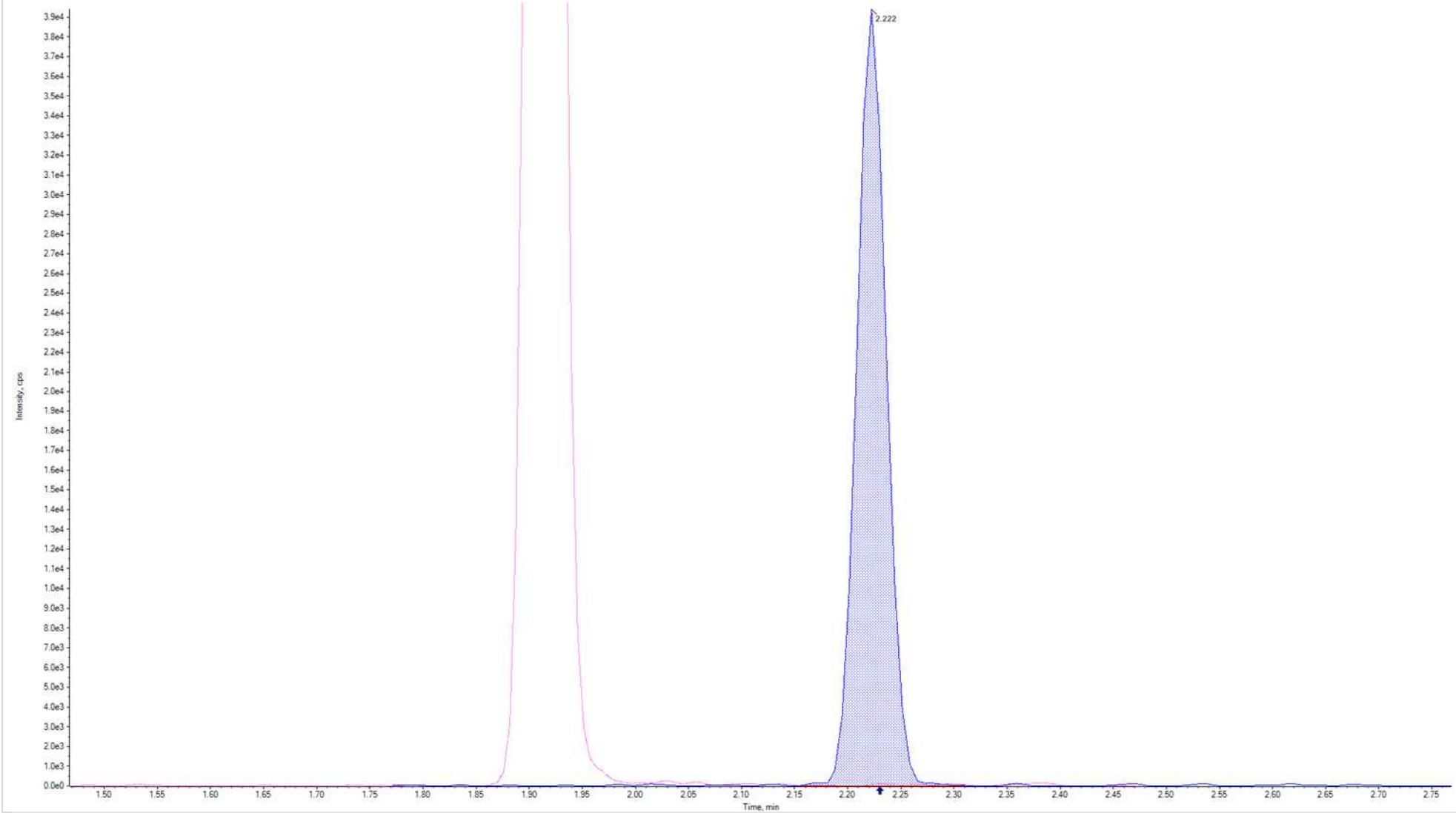
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Alpha Analytical LLC
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7:3FTCA_2
Sample: IA1633STD-.1 S/N:1584.0 Points Across peak:27



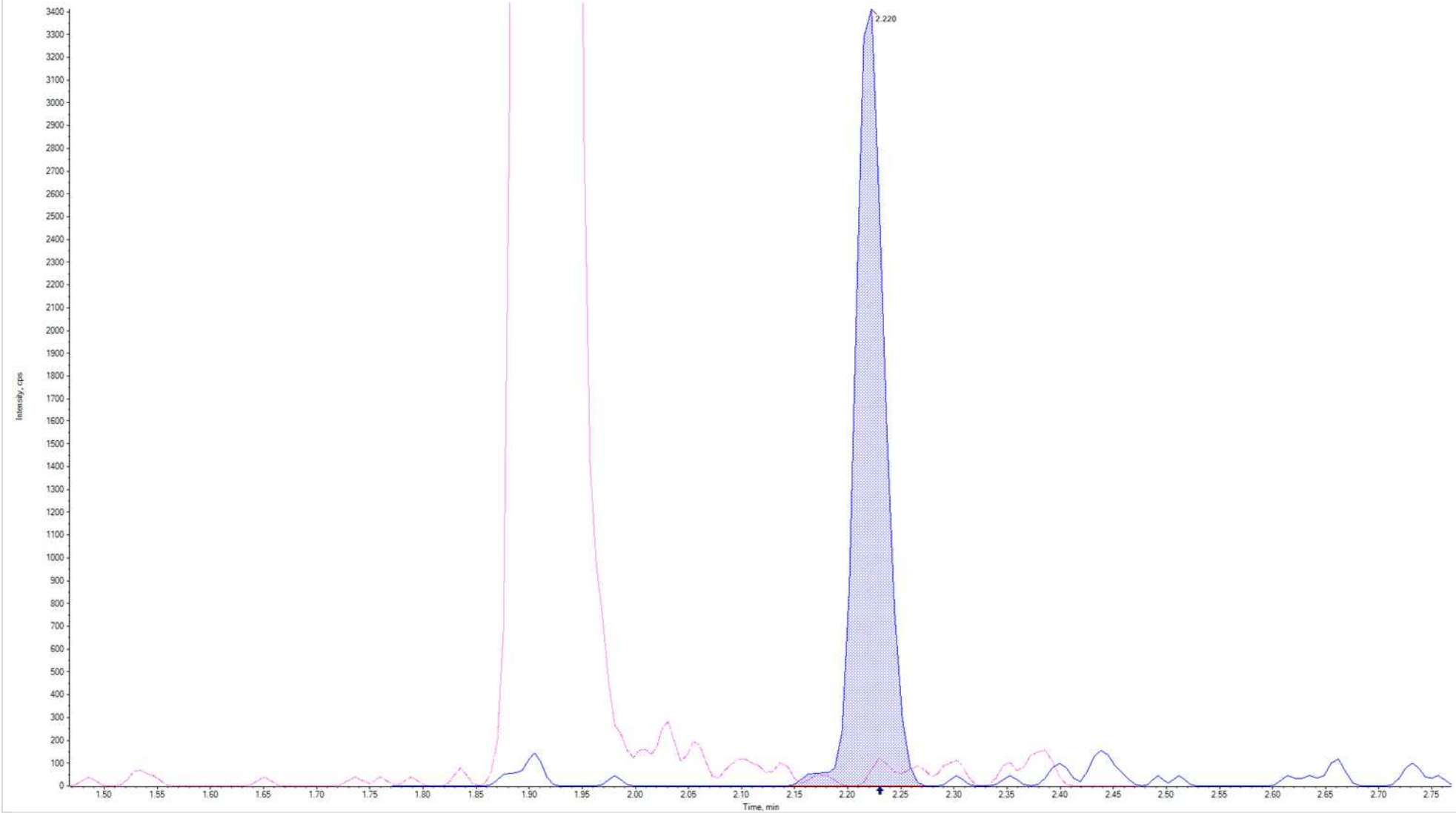
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFEESA
Sample: IA1633STD-.1 S/N:889.0 Points Across peak:28



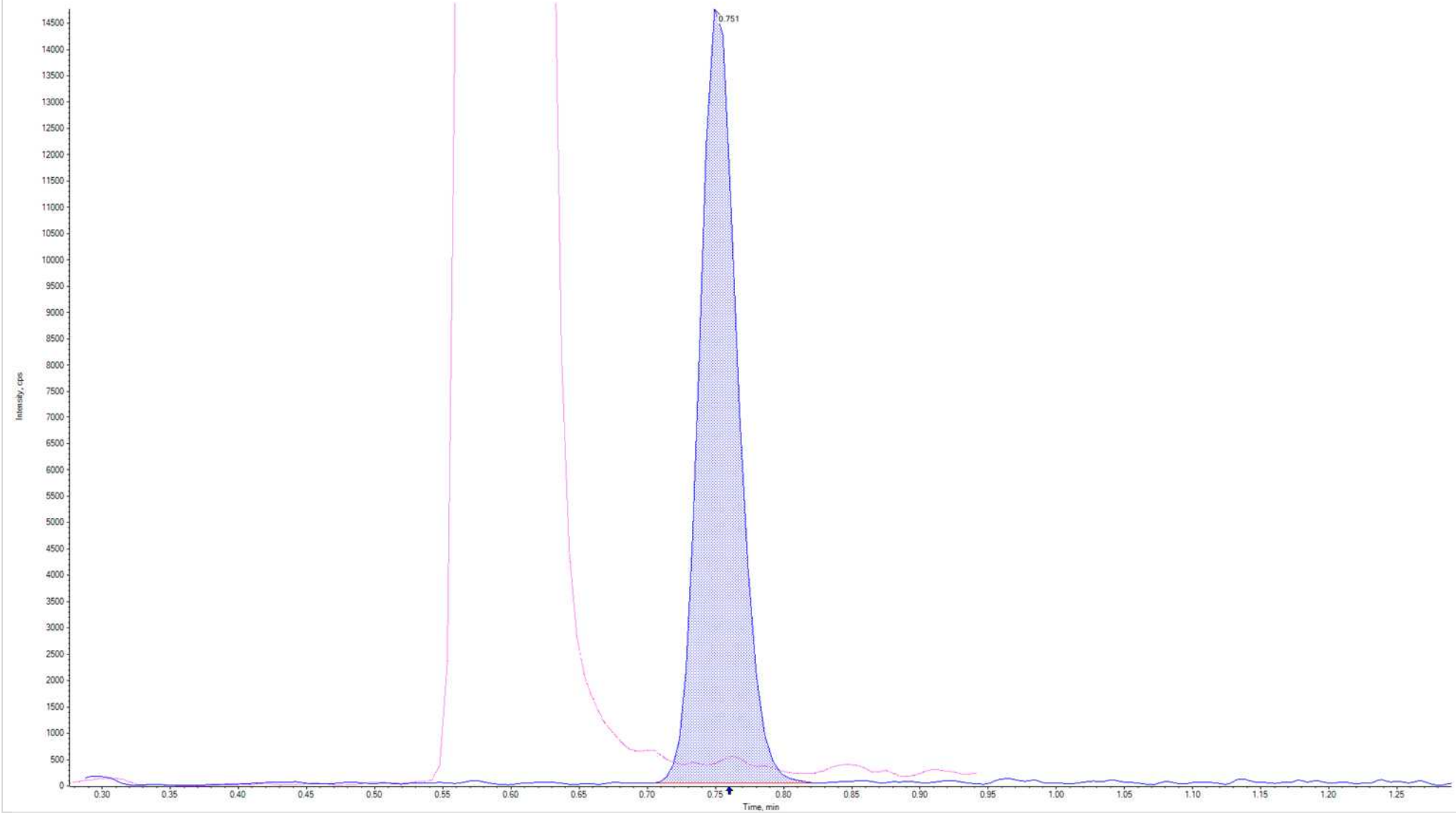
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFEESA_2
Sample: IA1633STD-.1 S/N:77.0 Points Across peak:23



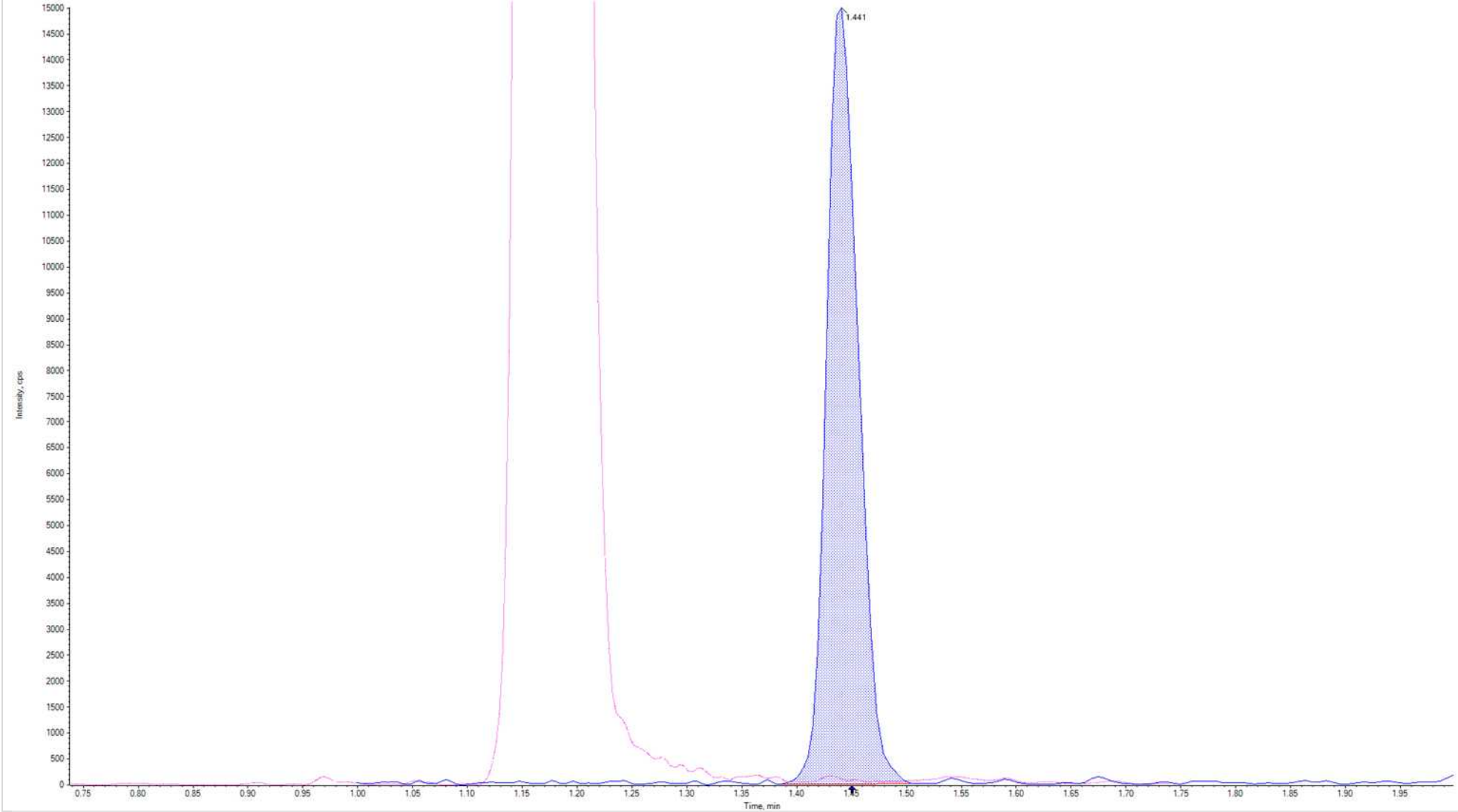
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Alpha Analytical LLC
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PFMPA
Sample: IA1633STD-.1 S/N:1475.1 Points Across peak:22



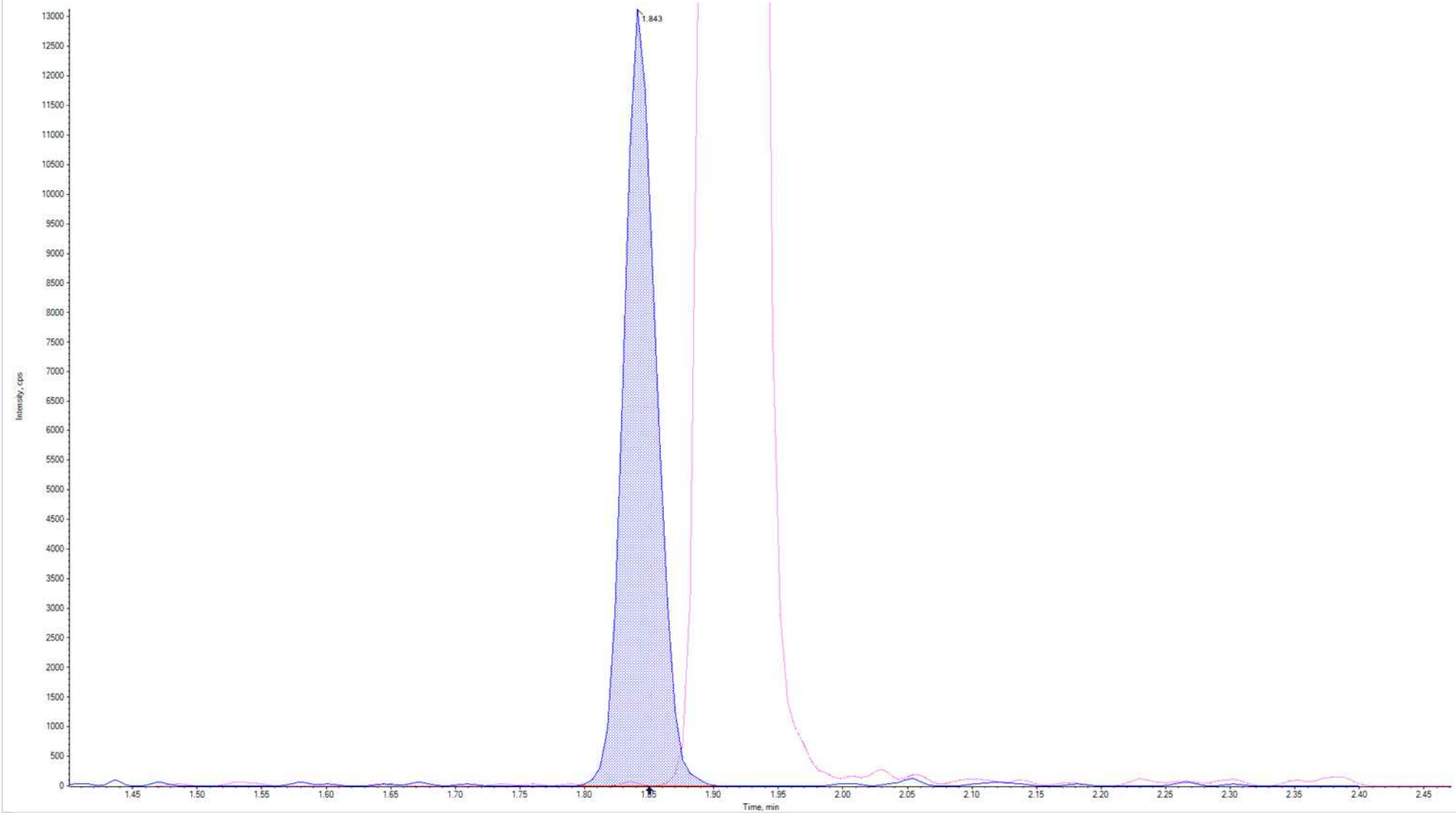
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Alpha Analytical LLC
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PFMBA
Sample: IA1633STD-.1 S/N:864.3 Points Across peak:29

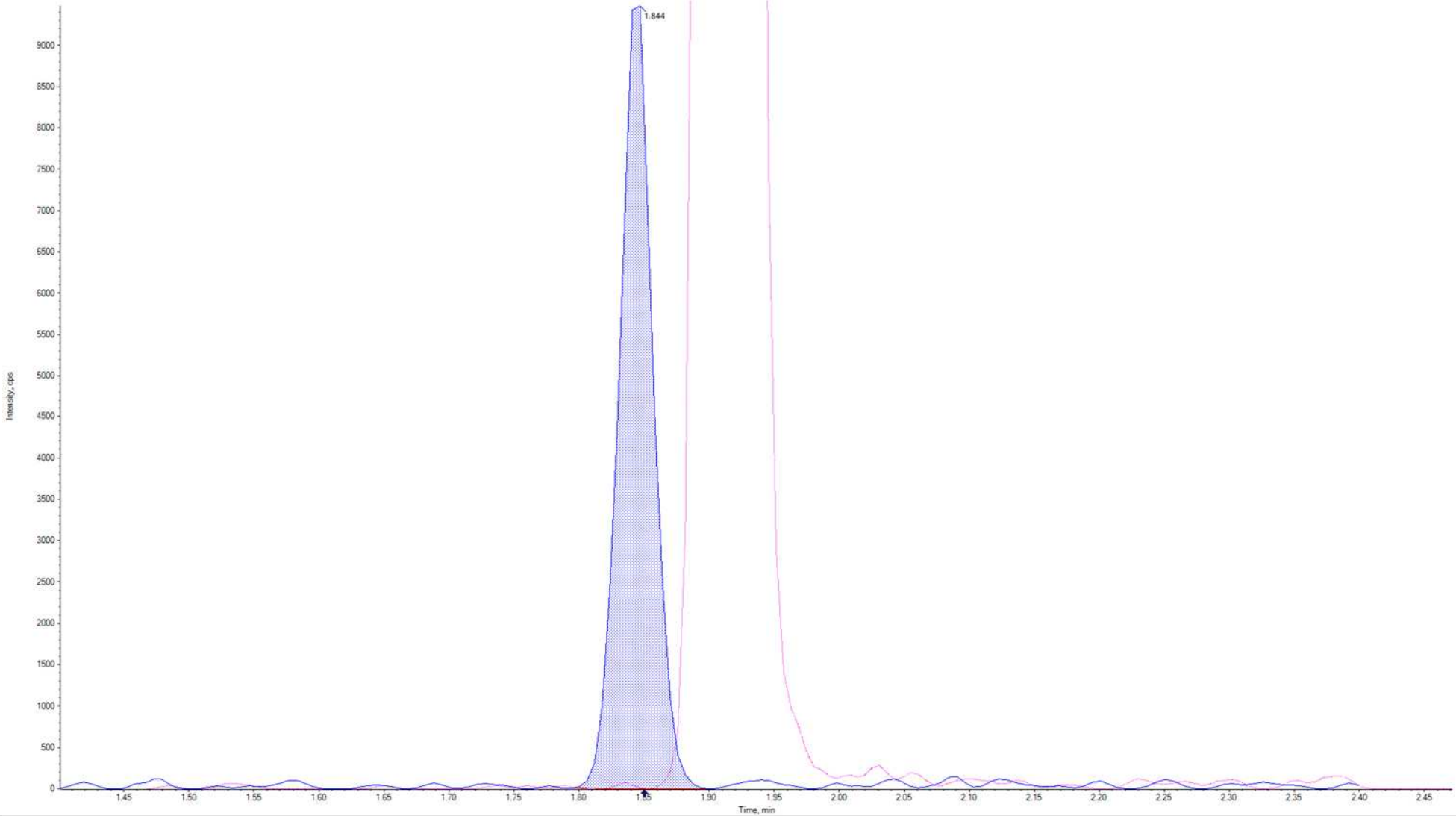


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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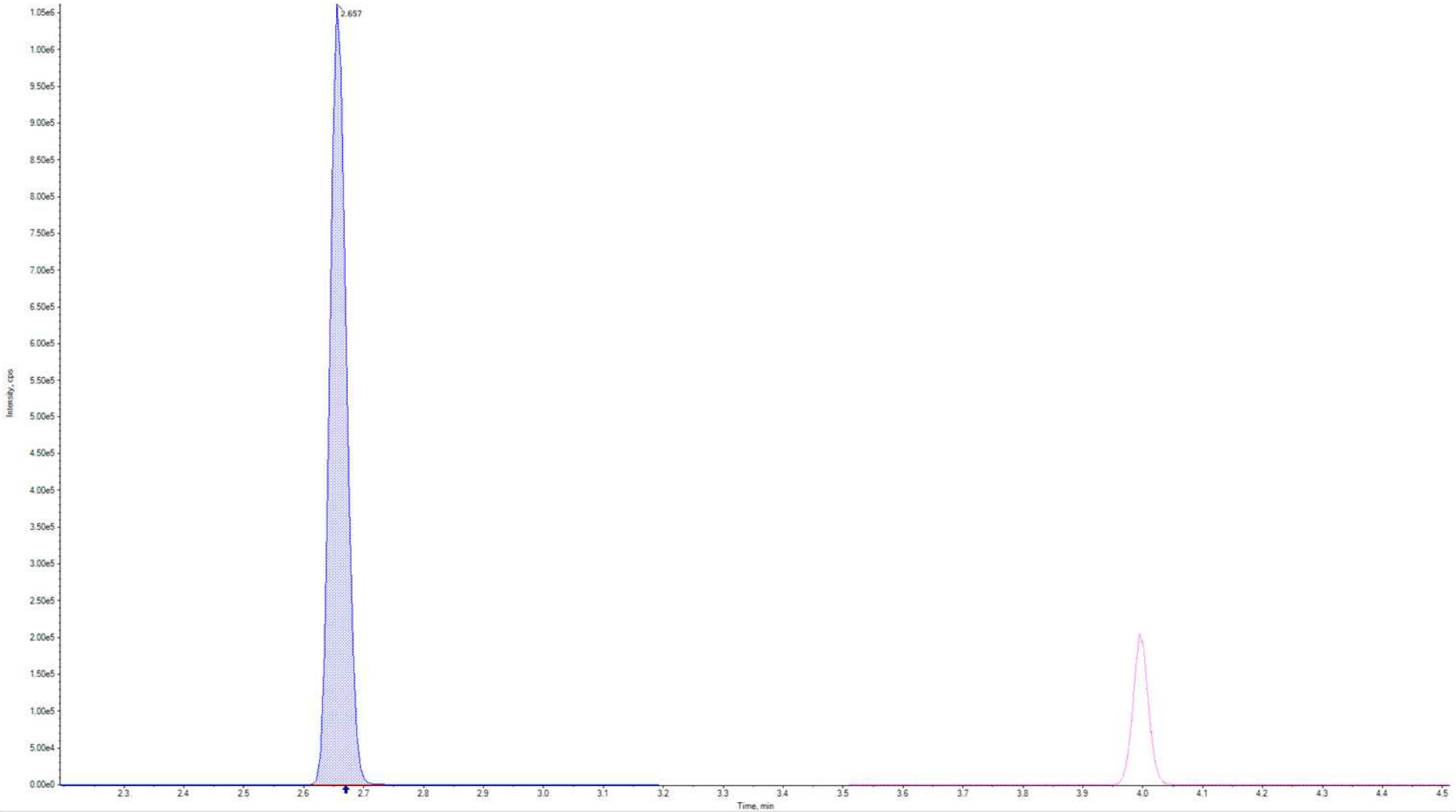
NFDHA
Sample: IA1633STD-.1 S/N:362.0 Points Across peak:31



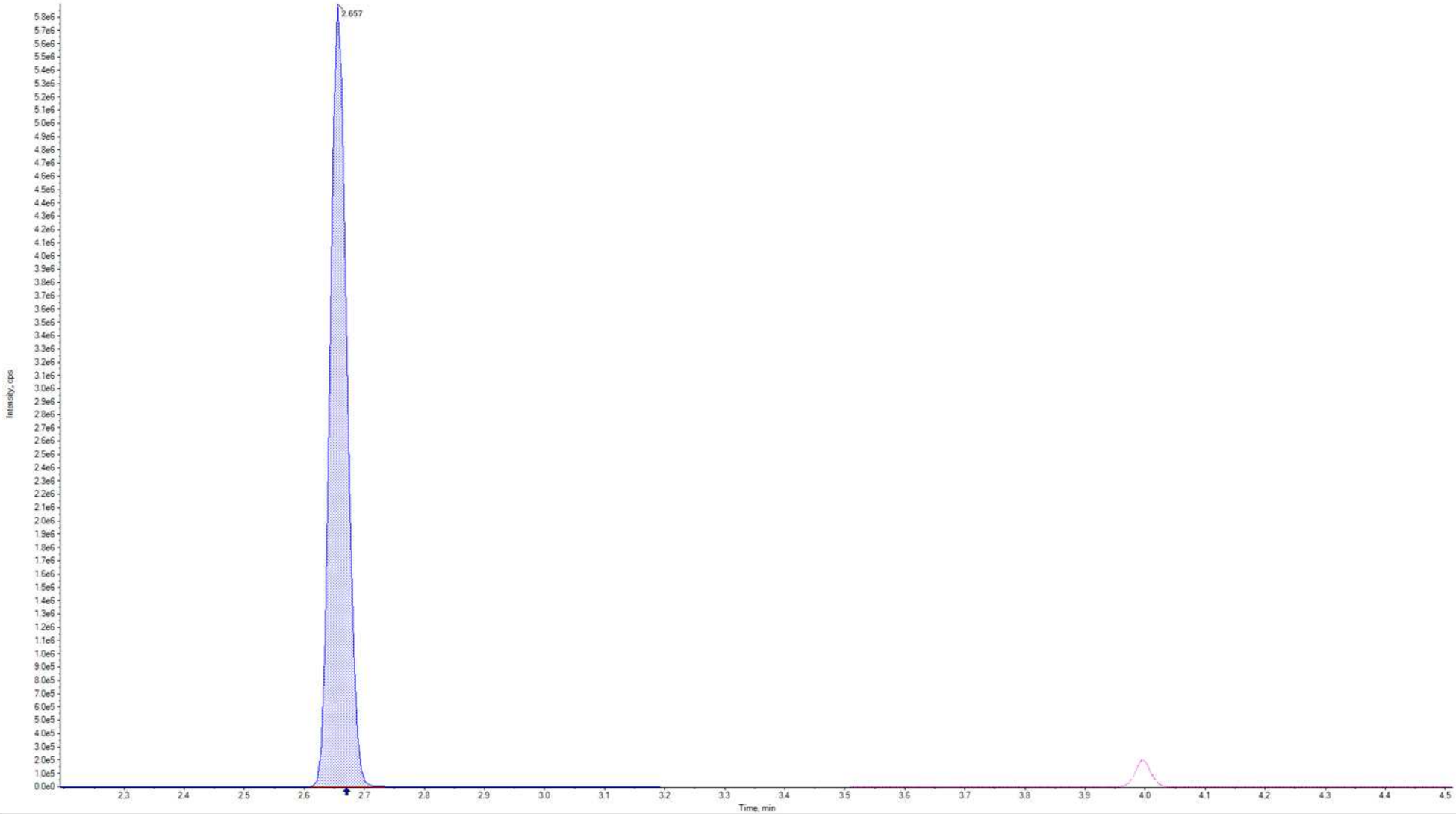
NFDHA_2
Sample: IA1633STD-.1 S/N:261.1 Points Across peak:20



TDCA
Sample: IA1633STD-.1 S/N:9486.4 Points Across peak:26

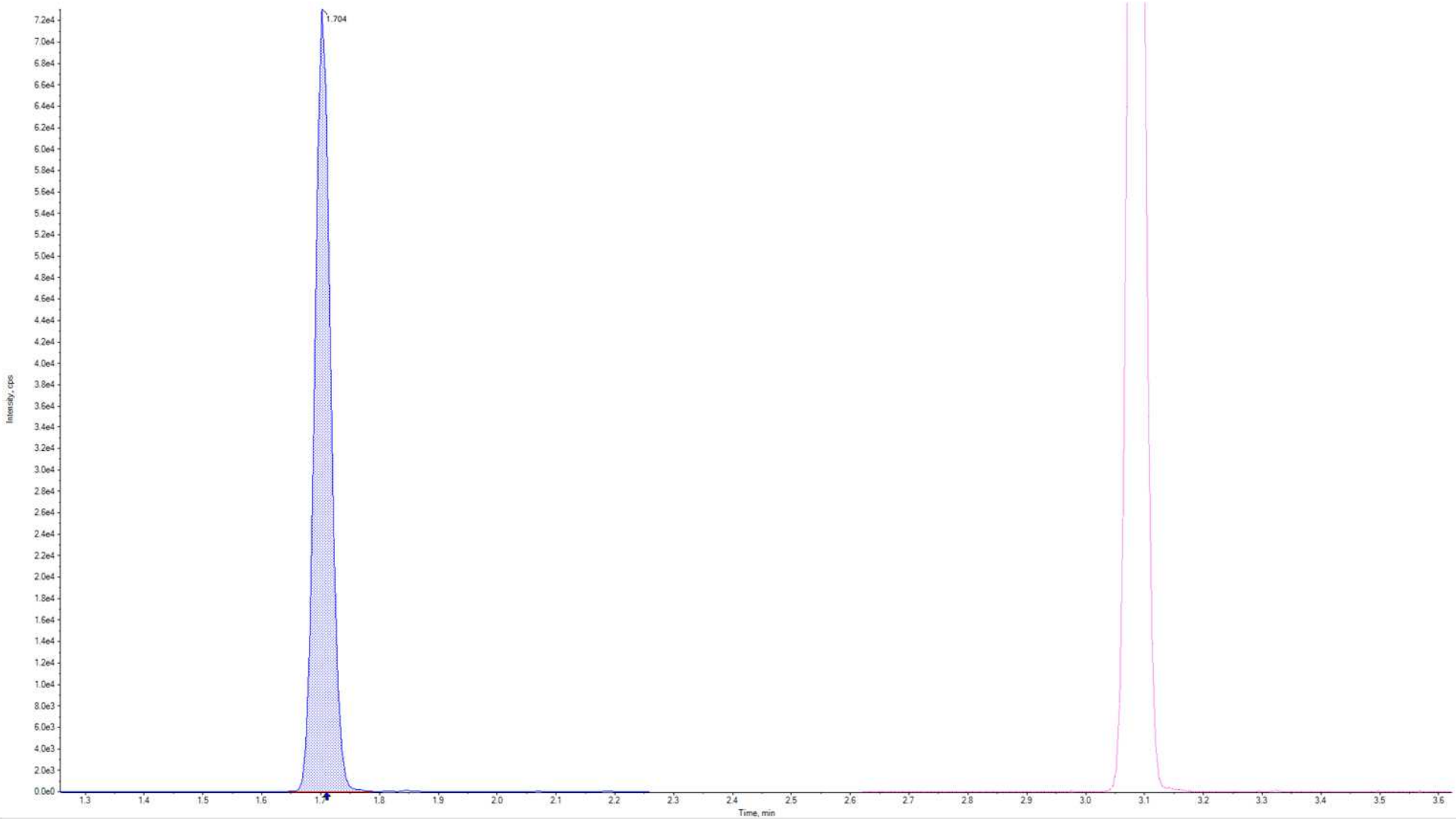


TDCA_2
Sample: IA1633STD-.1 S/N:6926.8 Points Across peak:31



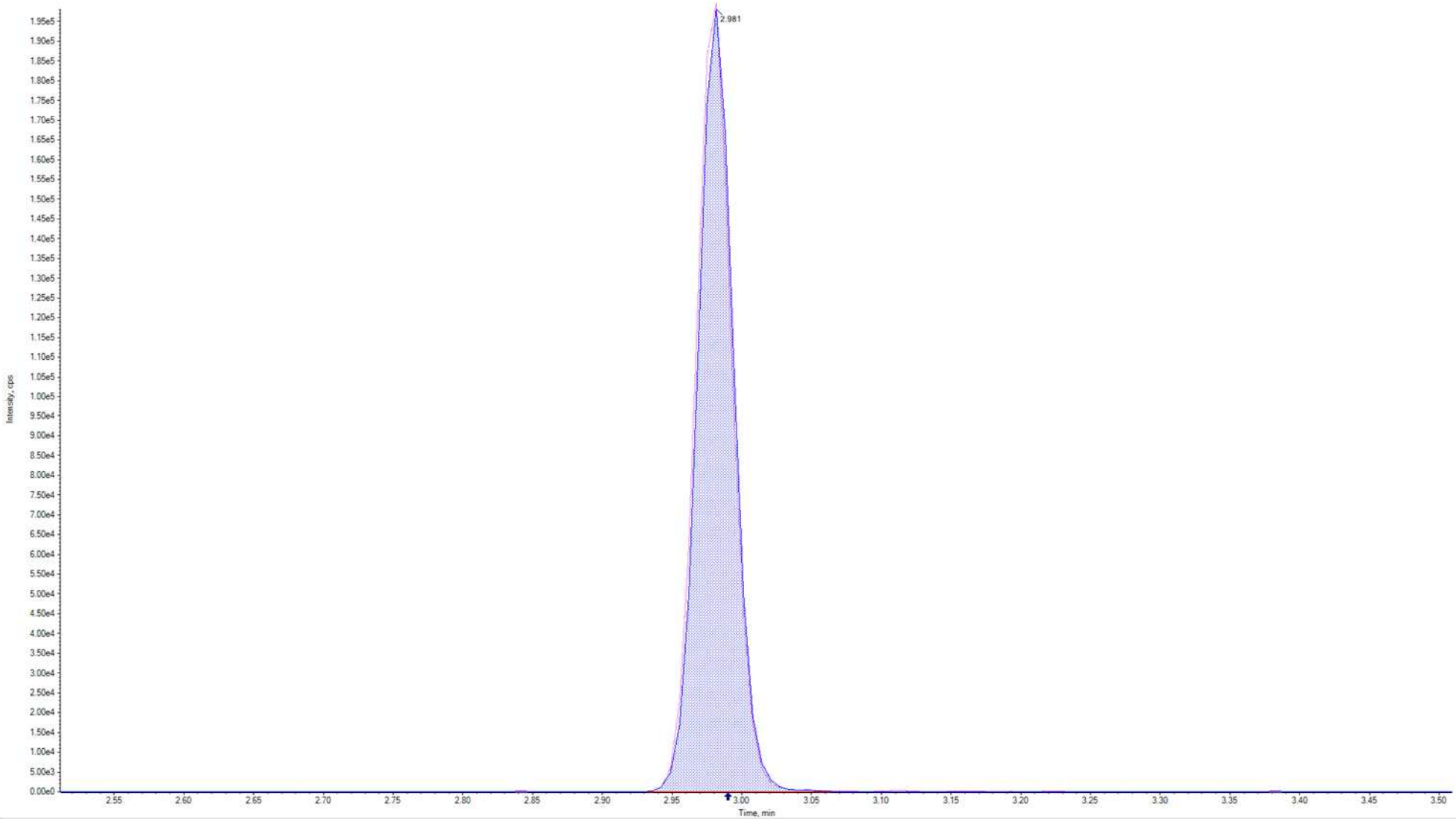
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Alpha Analytical LLC
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13C2D4-4:2FTS
Sample: IA1633STD-.1 S/N:2747.0 Points Across peak:32

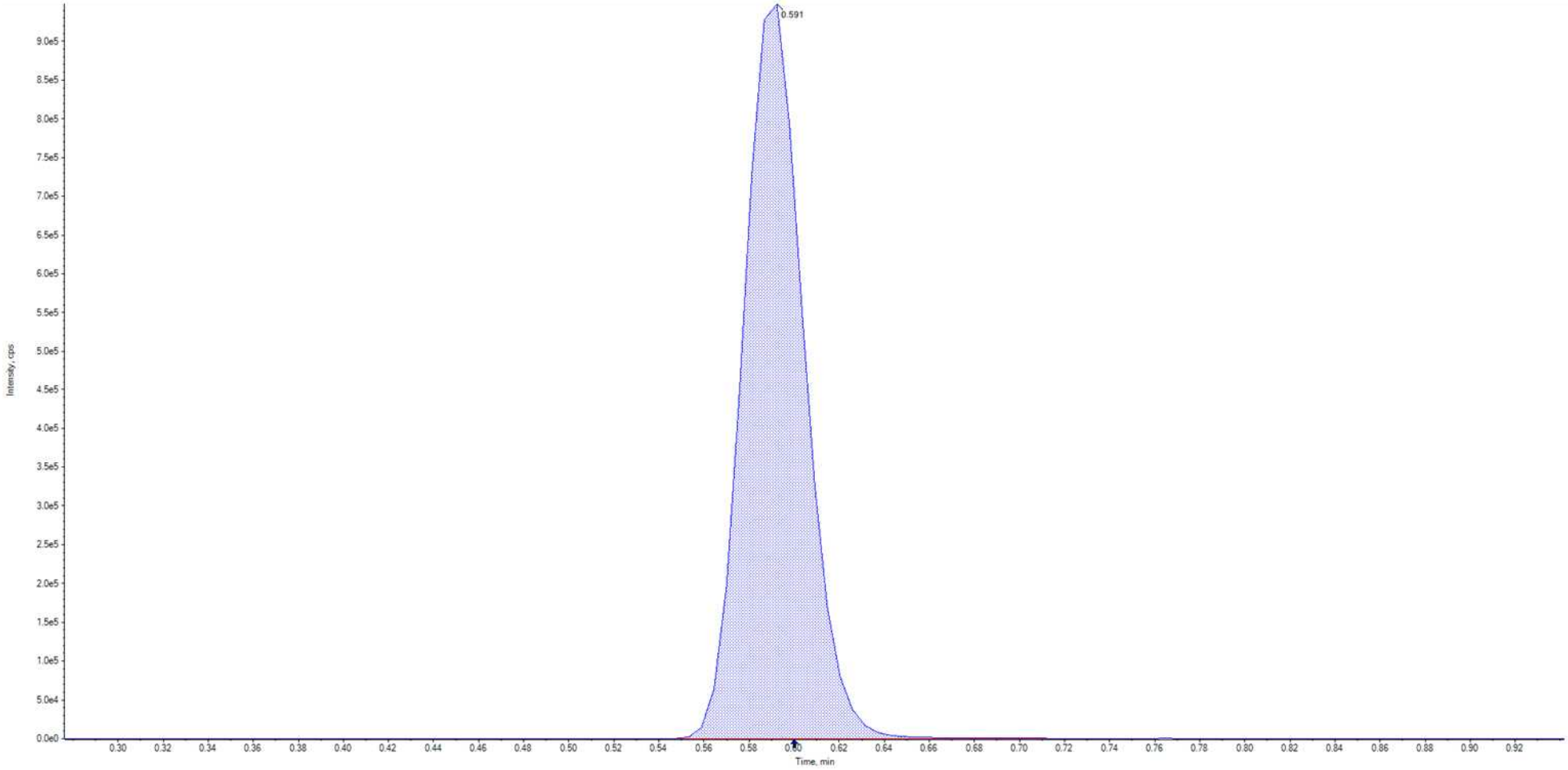


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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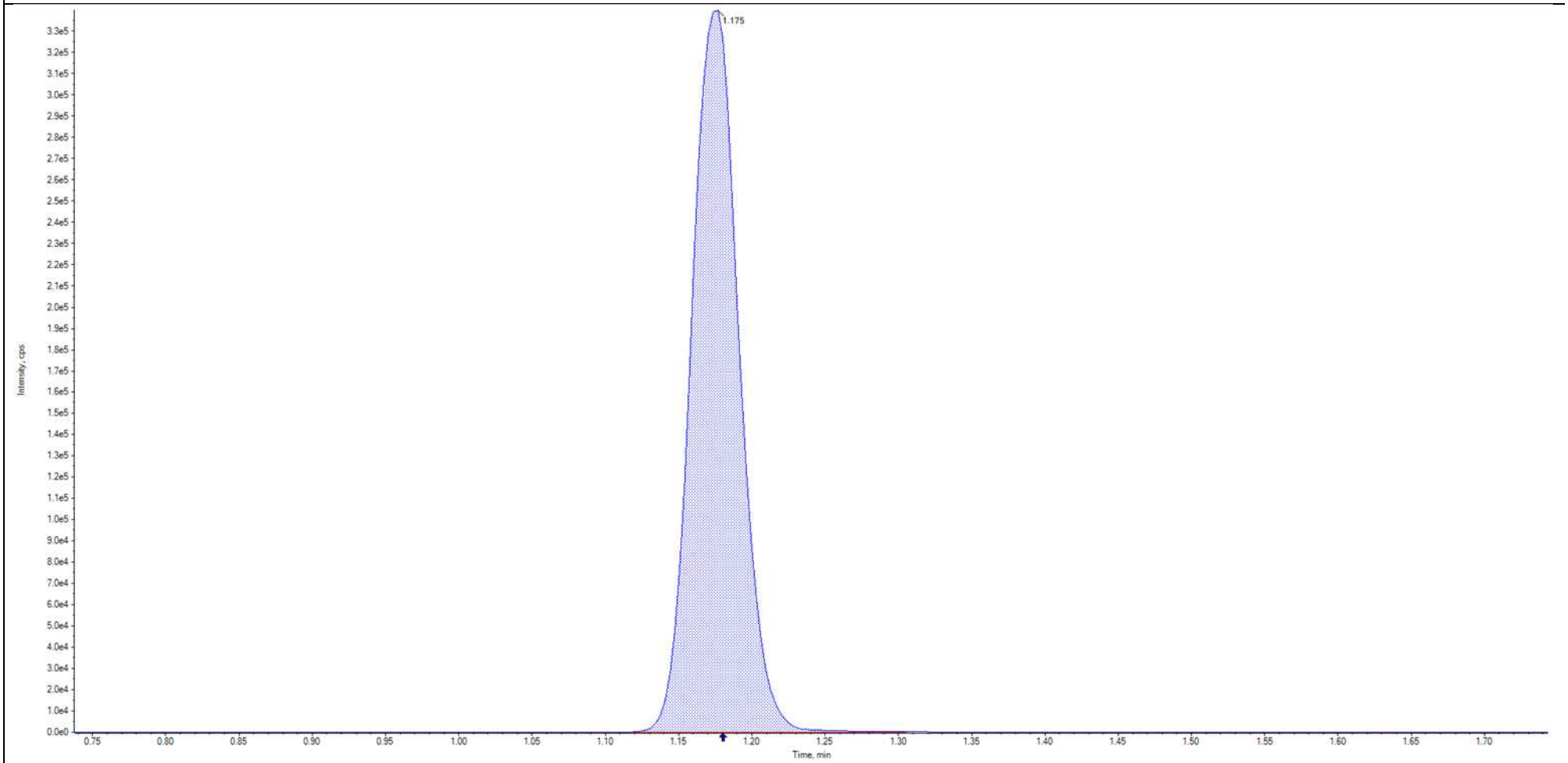
13C2-PFOA
Sample: IA1633STD-.1 S/N:4469.2 Points Across peak:28



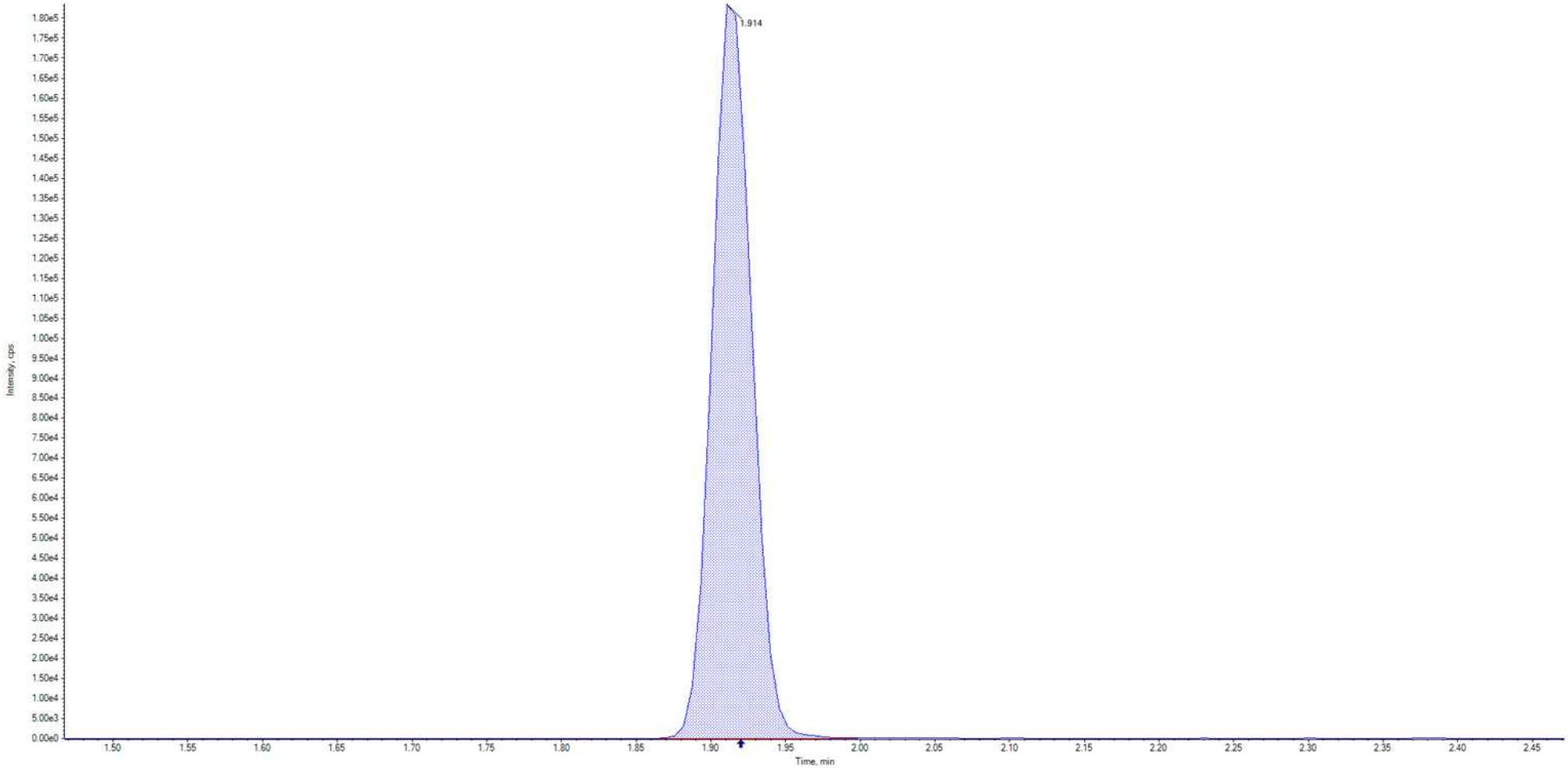
13C4-PFBA
Sample: IA1633STD-.1



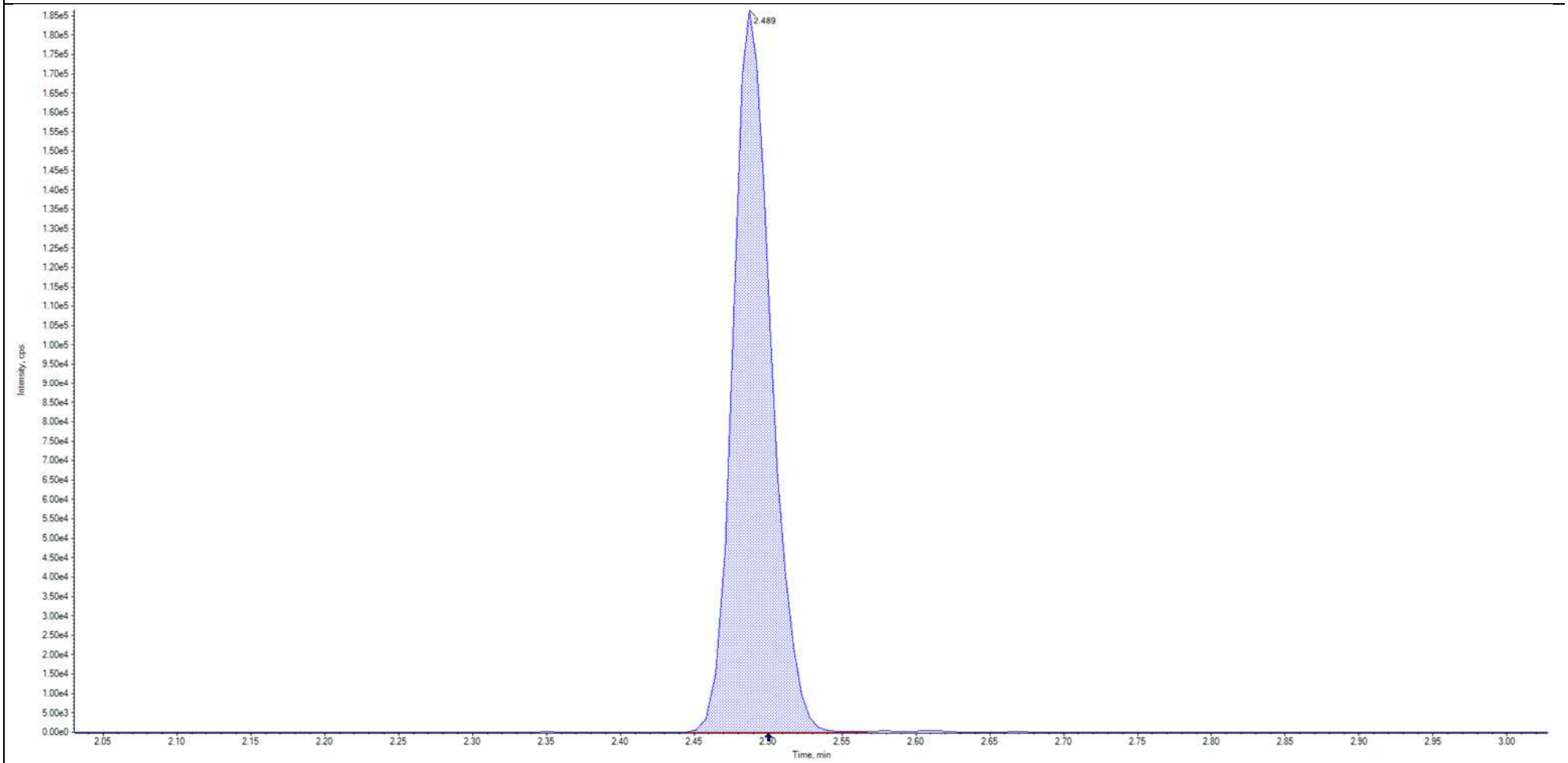
13C5-PFPeA
Sample: IA1633STD-.1



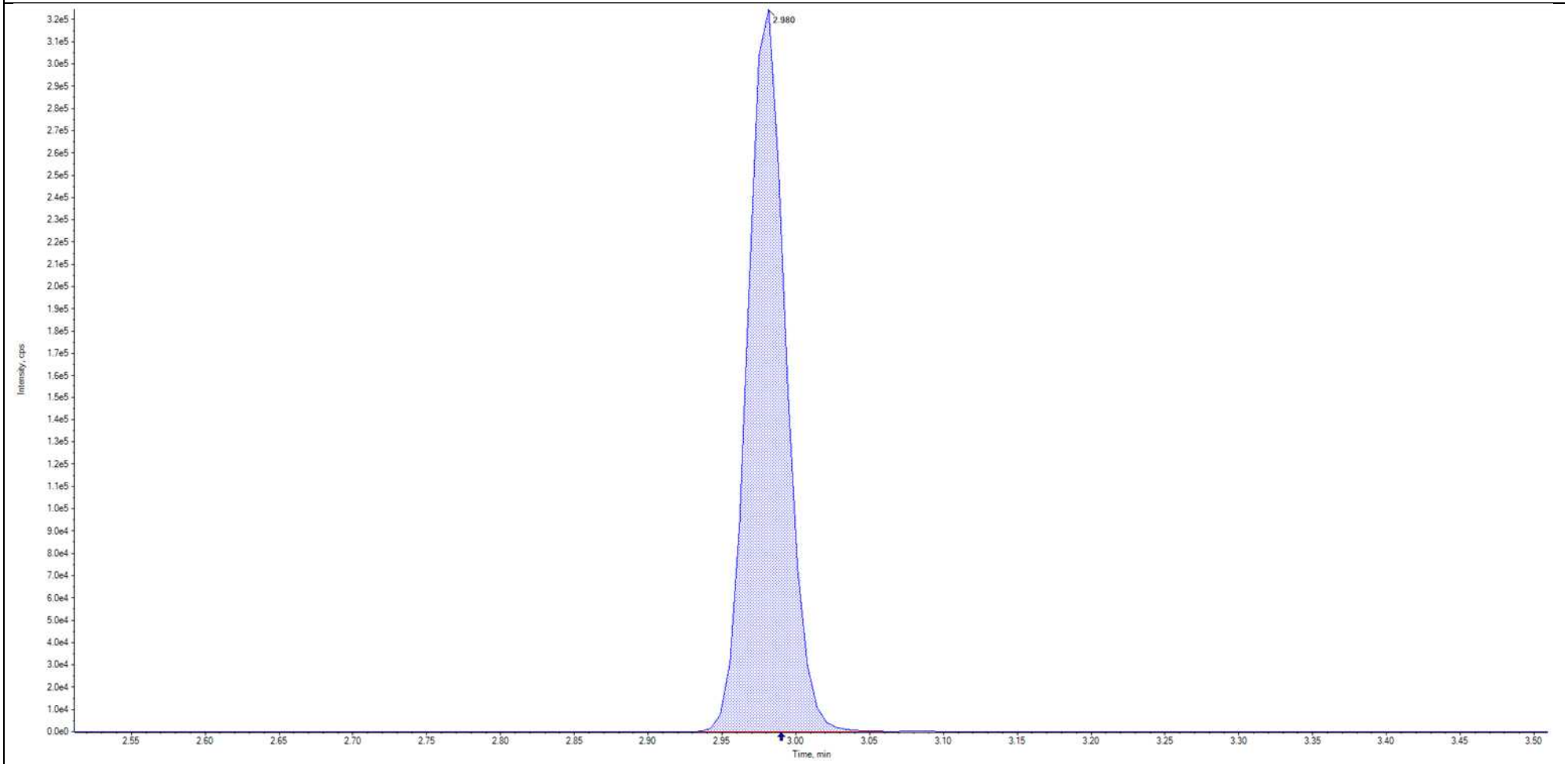
13C5-PFHxA
Sample: IA1633STD-.1



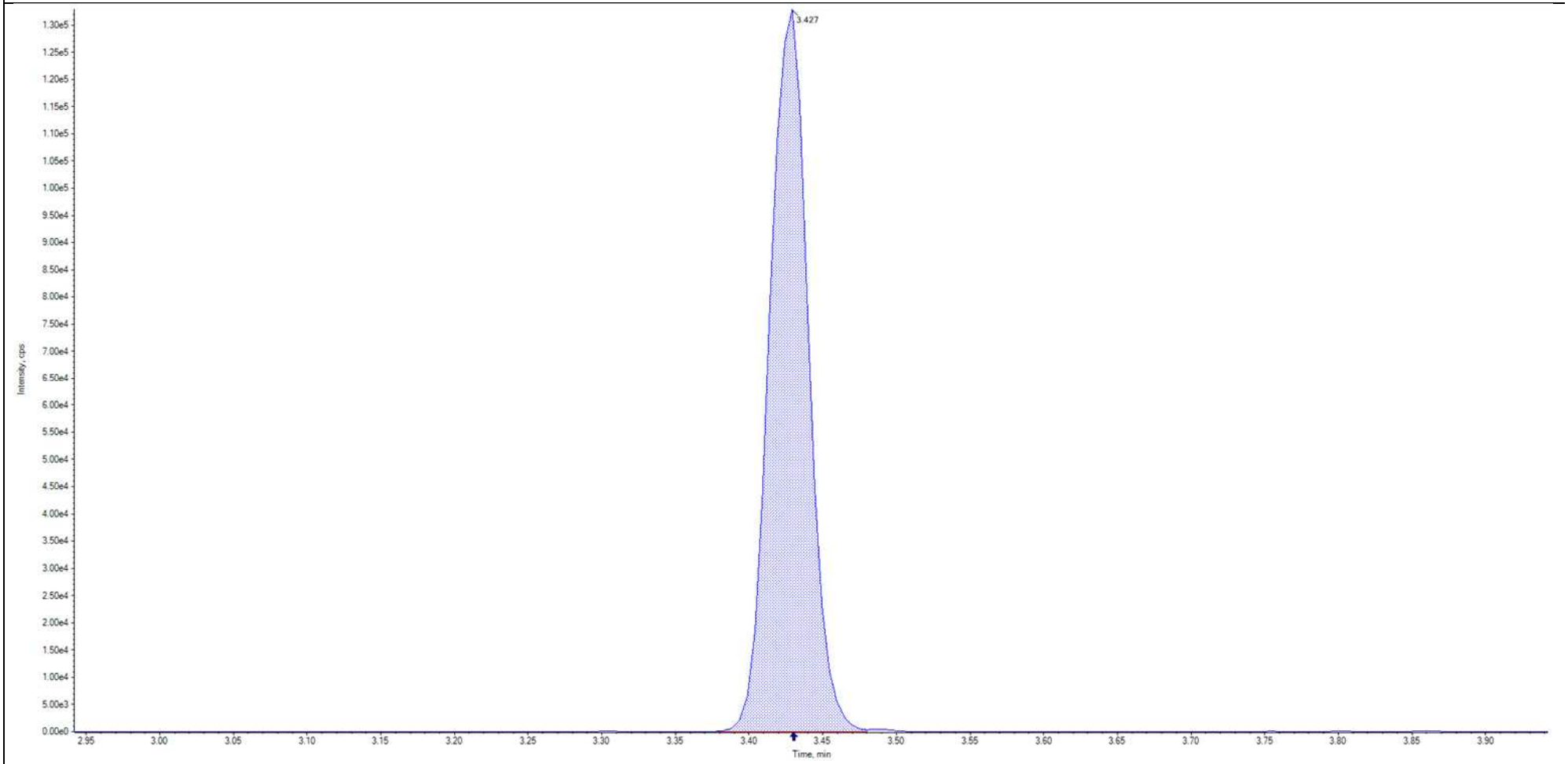
13C4-PFHpA
Sample: IA1633STD-.1



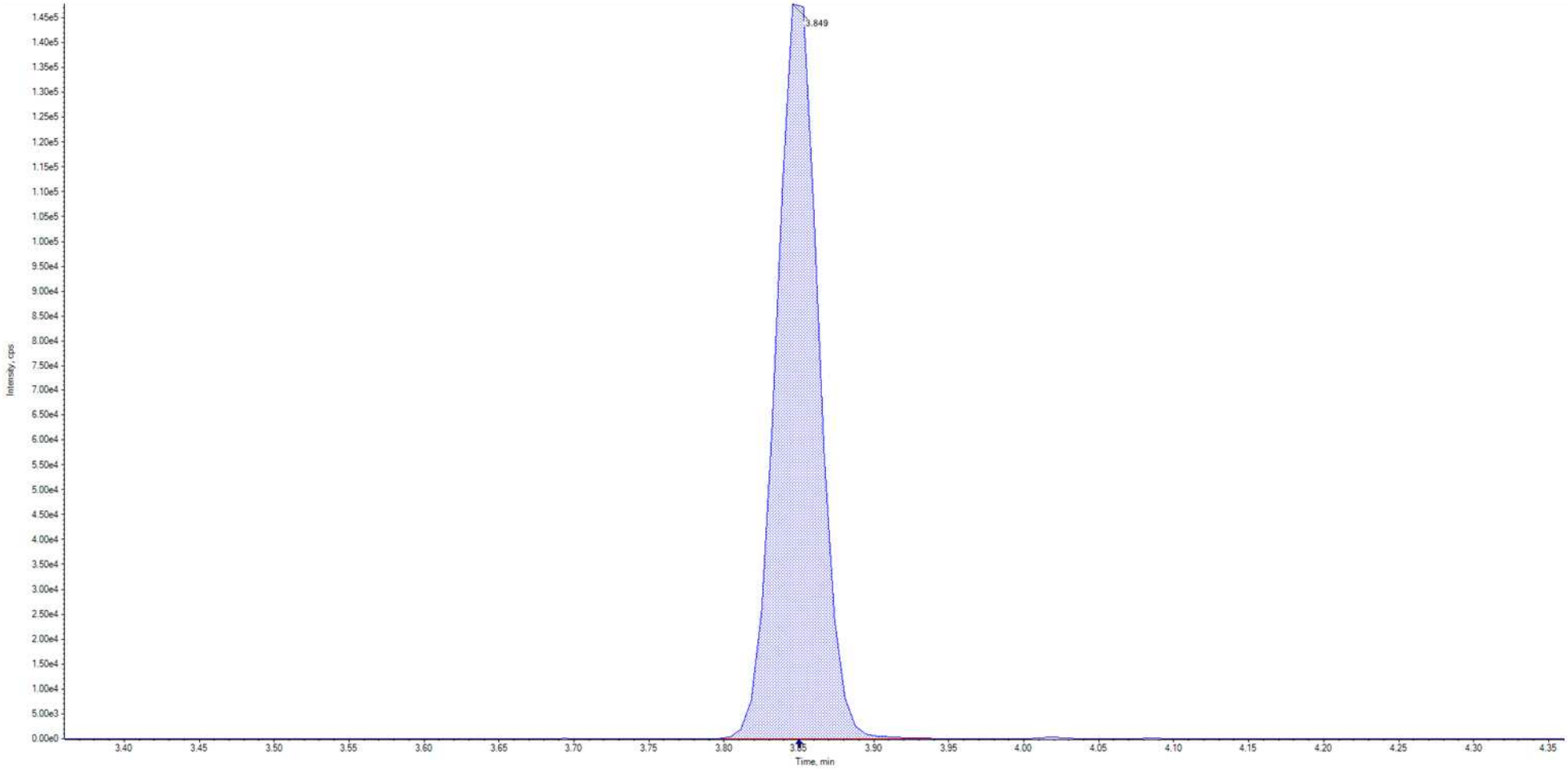
13C8-PFOA
Sample: IA1633STD-.1



13C9-PFNA
Sample: IA1633STD-.1

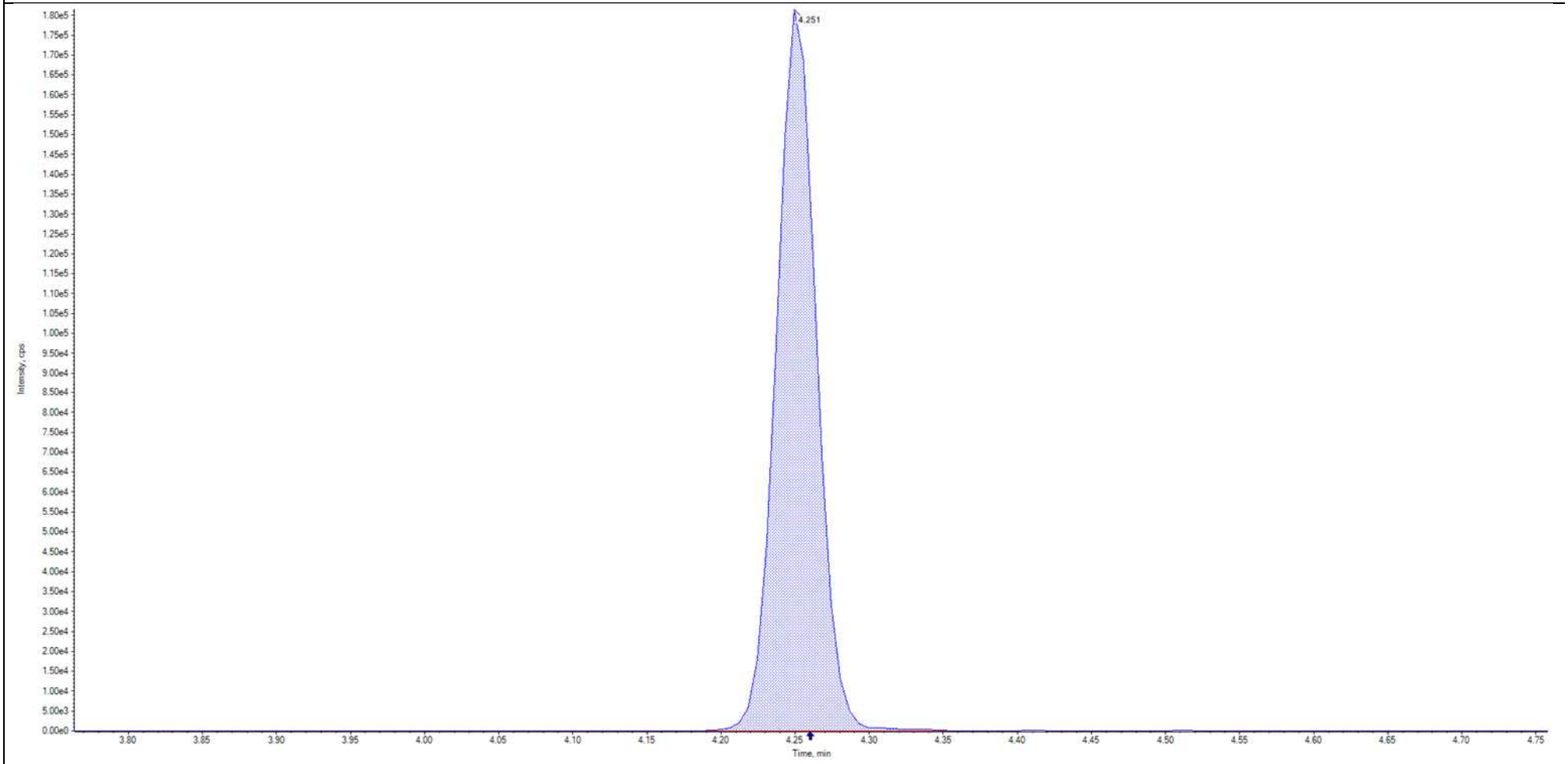


13C6-PFDA
Sample: IA1633STD-.1

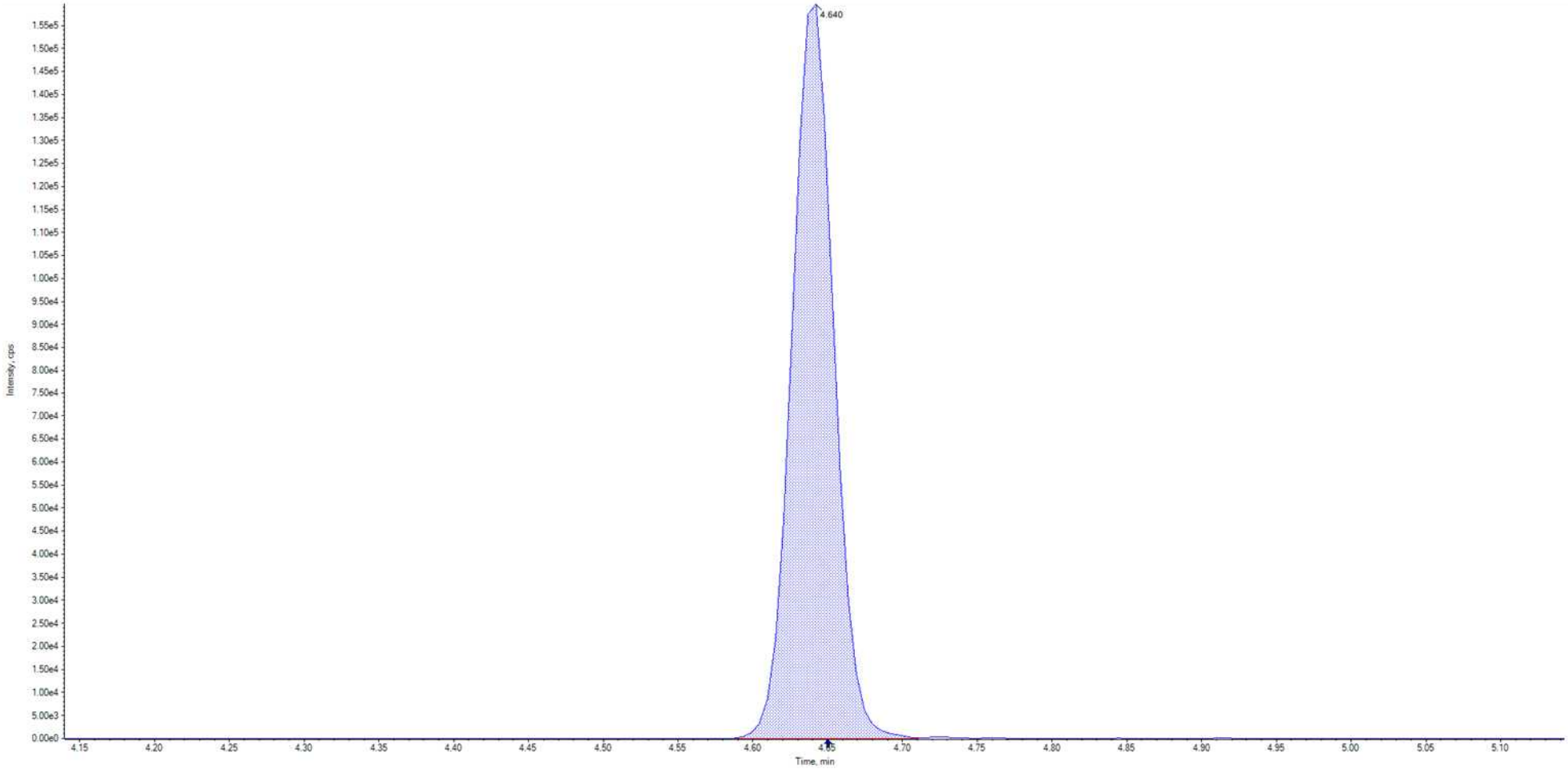


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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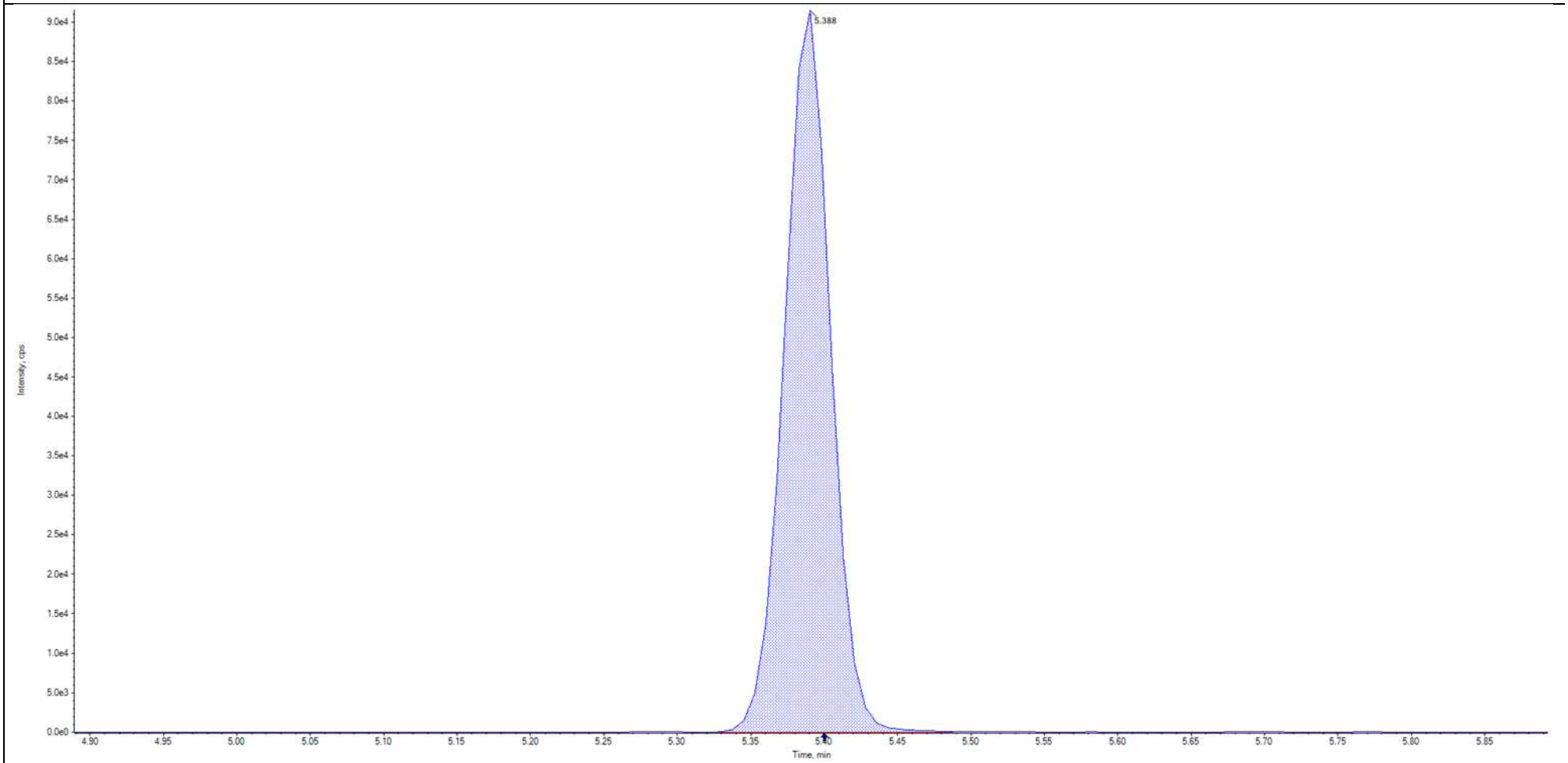
13C7-PFUnA
Sample: IA1633STD-.1



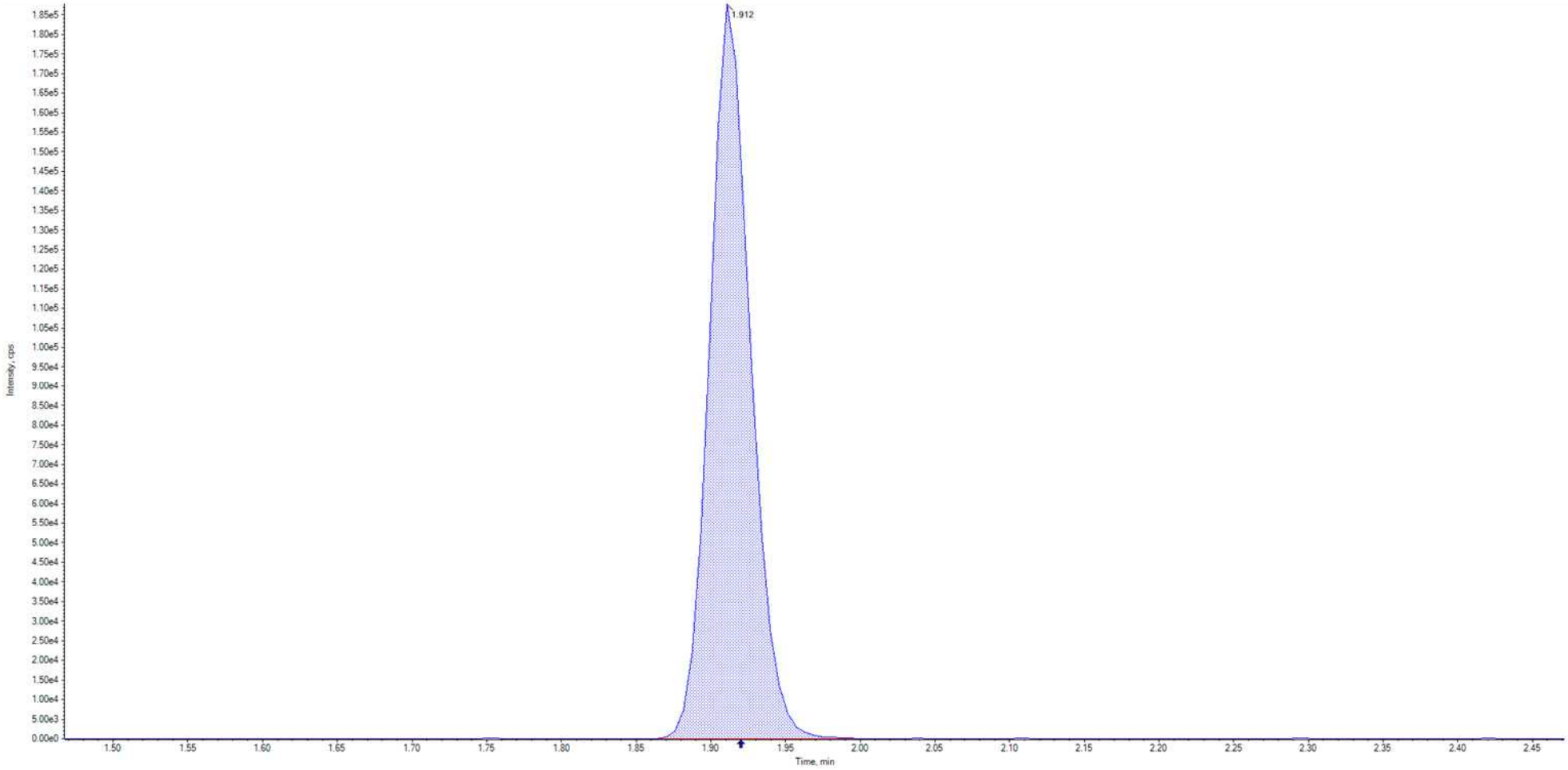
13C2-PFDoA
Sample: IA1633STD-.1



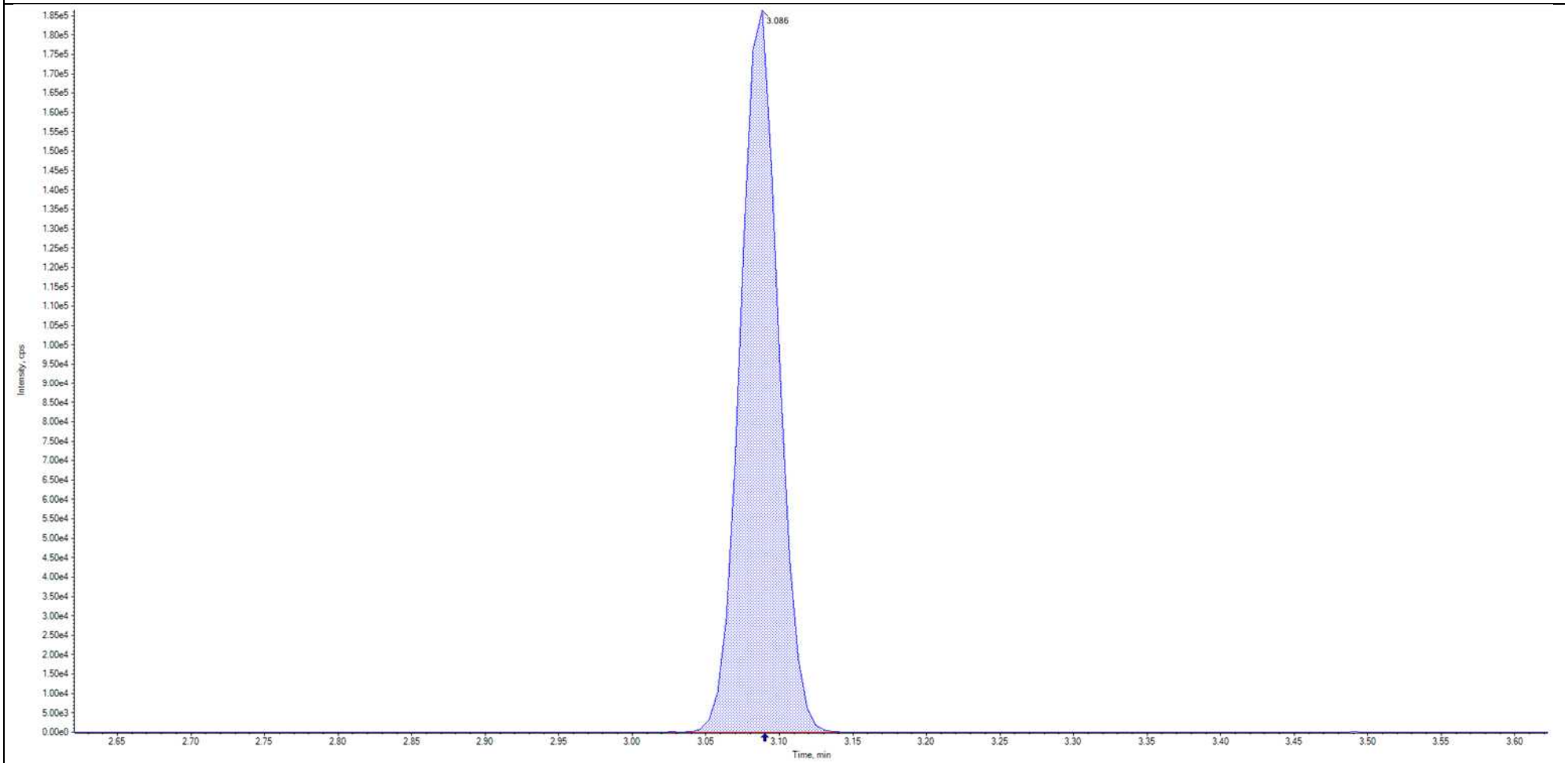
13C2-PFTeDA
Sample: IA1633STD-.1



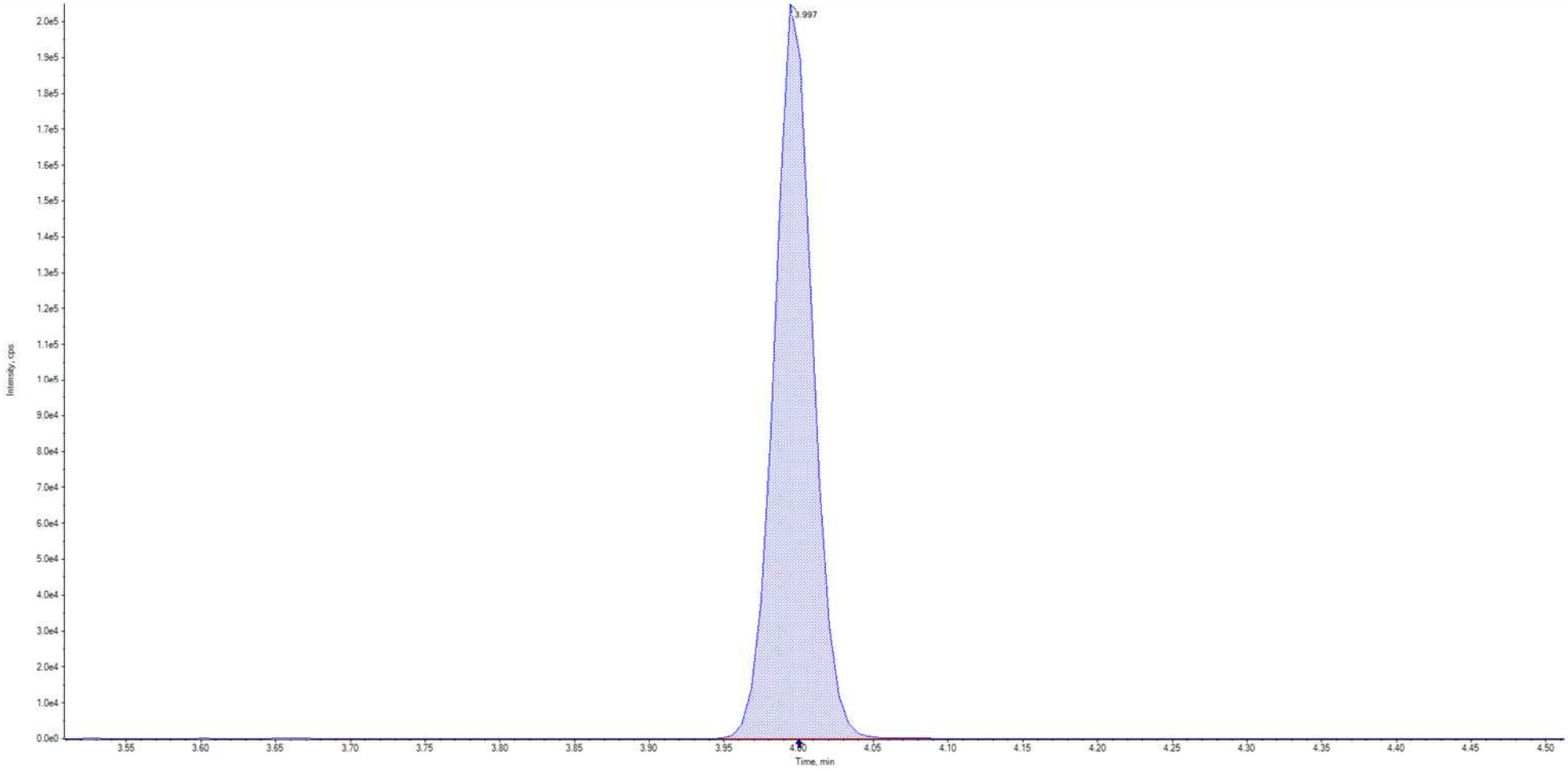
13C3-PFBS
Sample: IA1633STD-.1



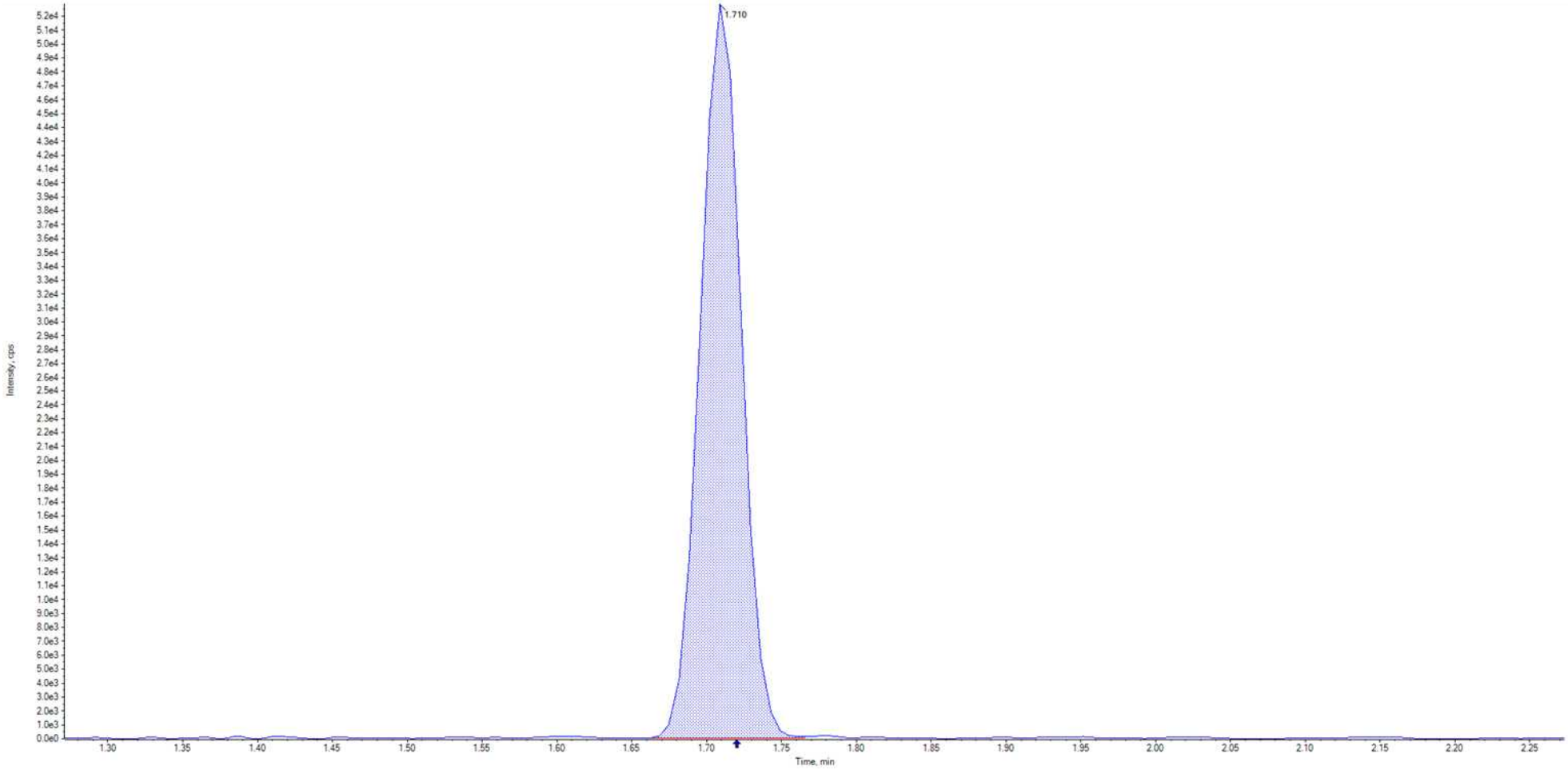
13C3-PFHxS
Sample: IA1633STD-.1



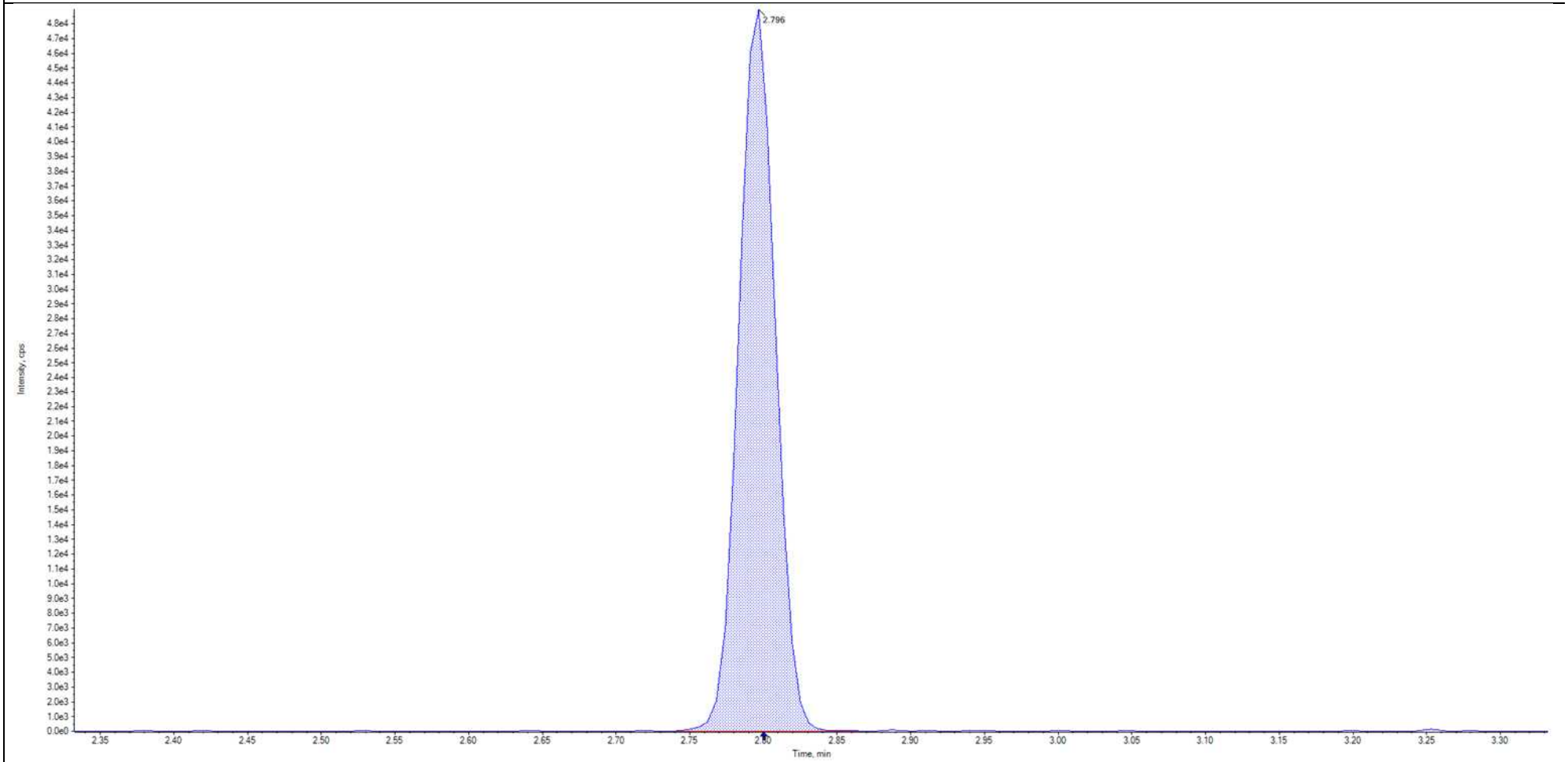
13C8-PFOS
Sample: IA1633STD-.1



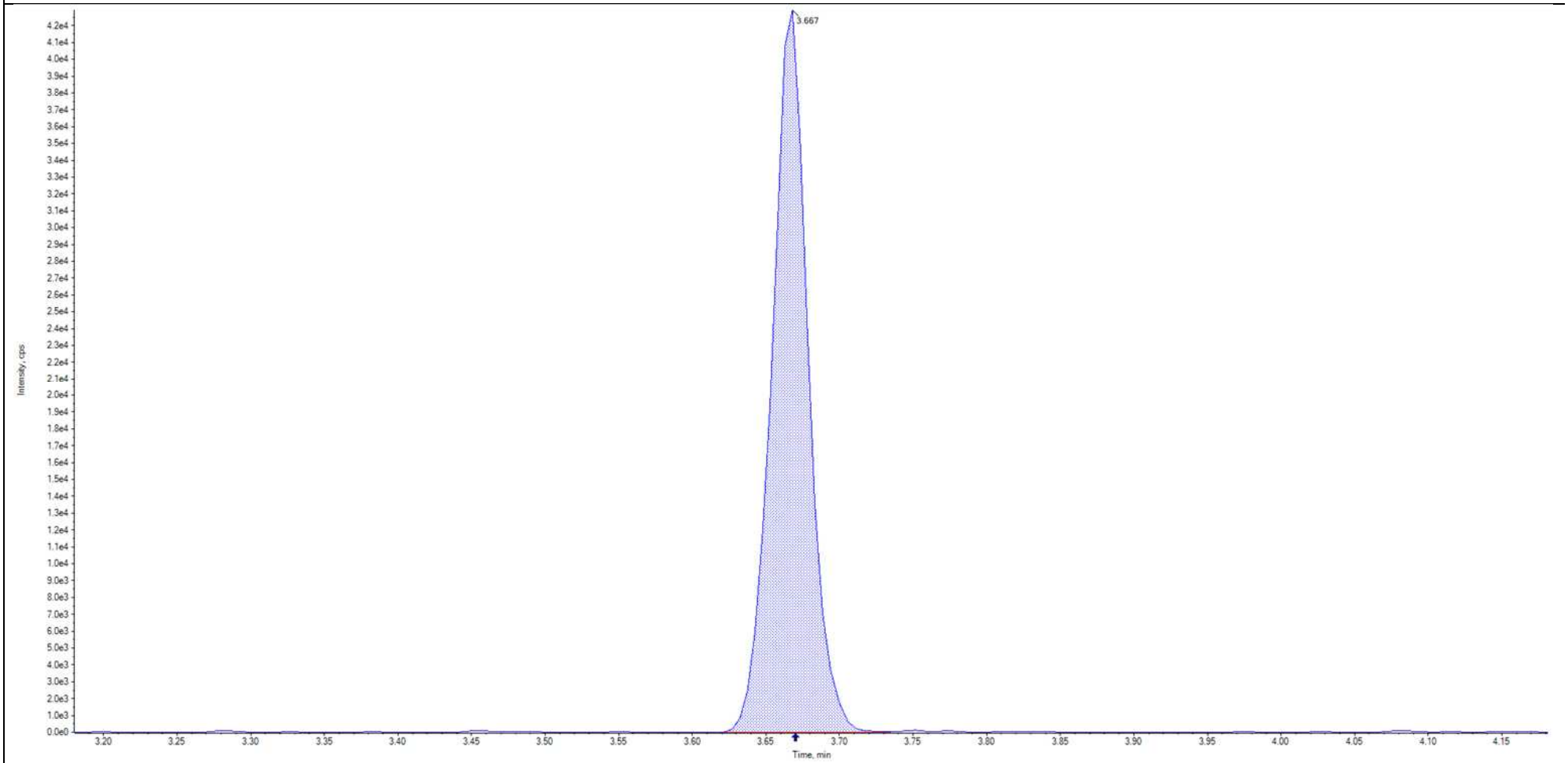
13C2-4:2FTS
Sample: IA1633STD-.1



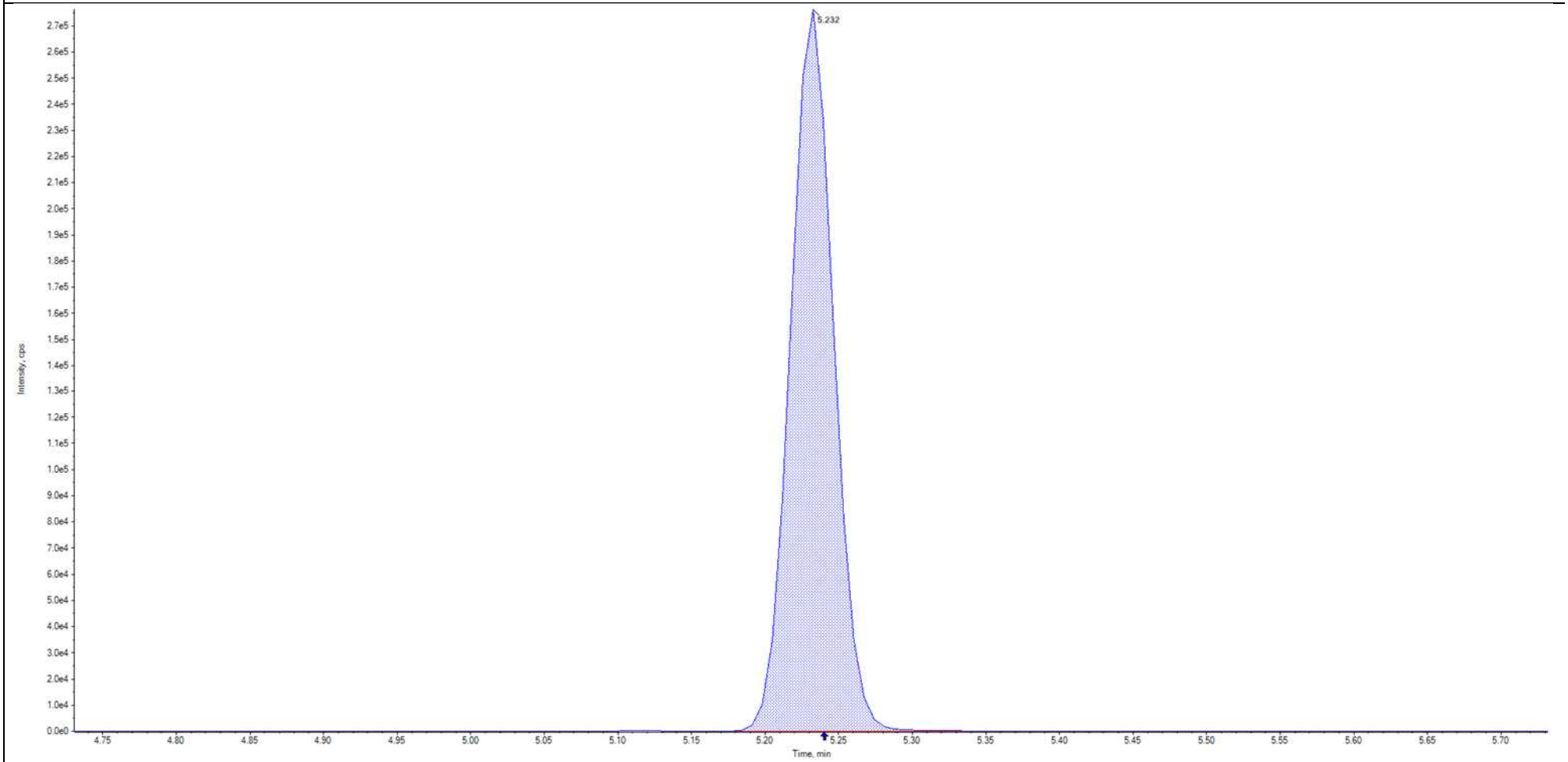
13C2-6:2FTS
Sample: IA1633STD-.1



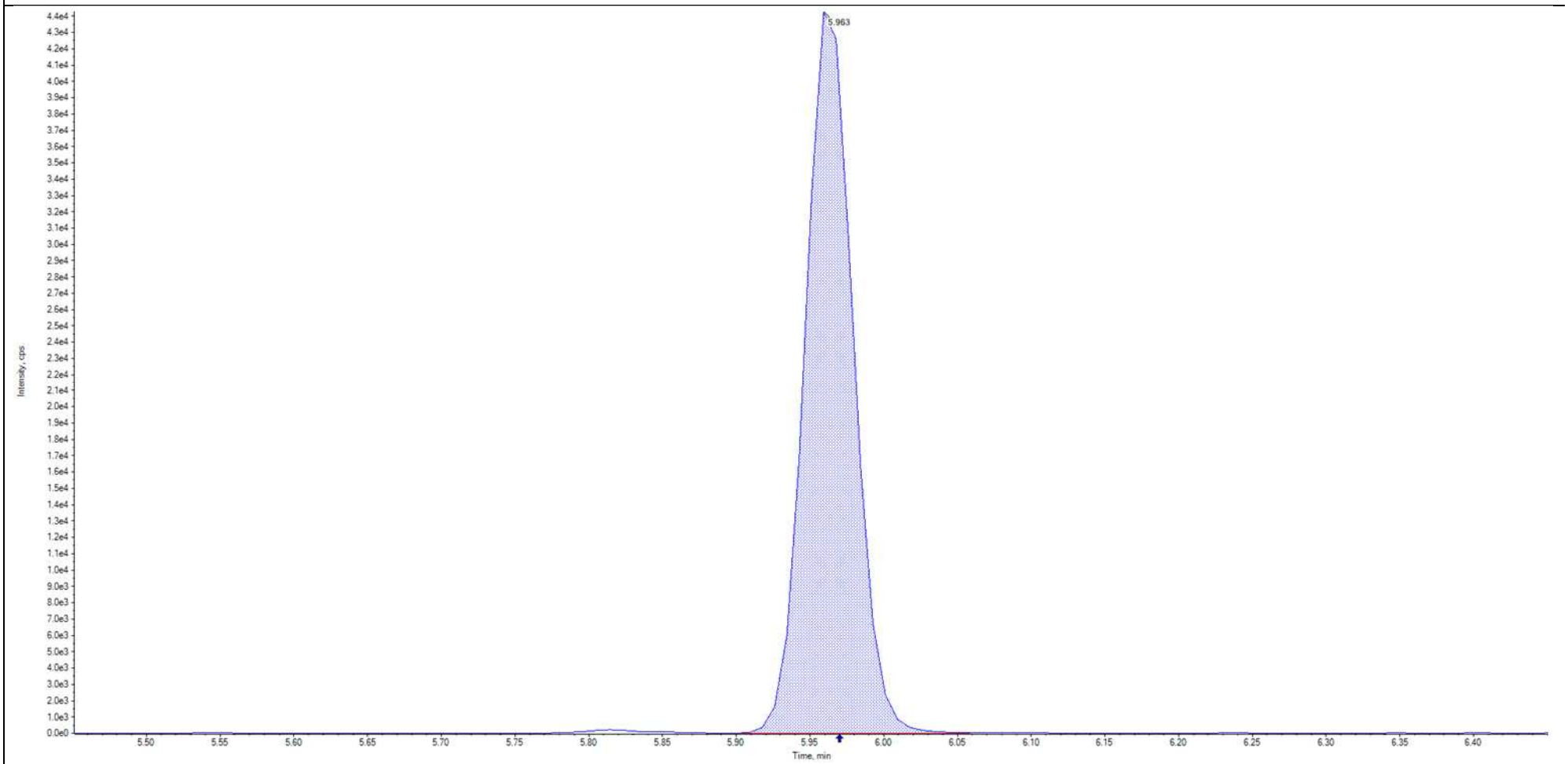
13C2-8:2FTS
Sample: IA1633STD-.1



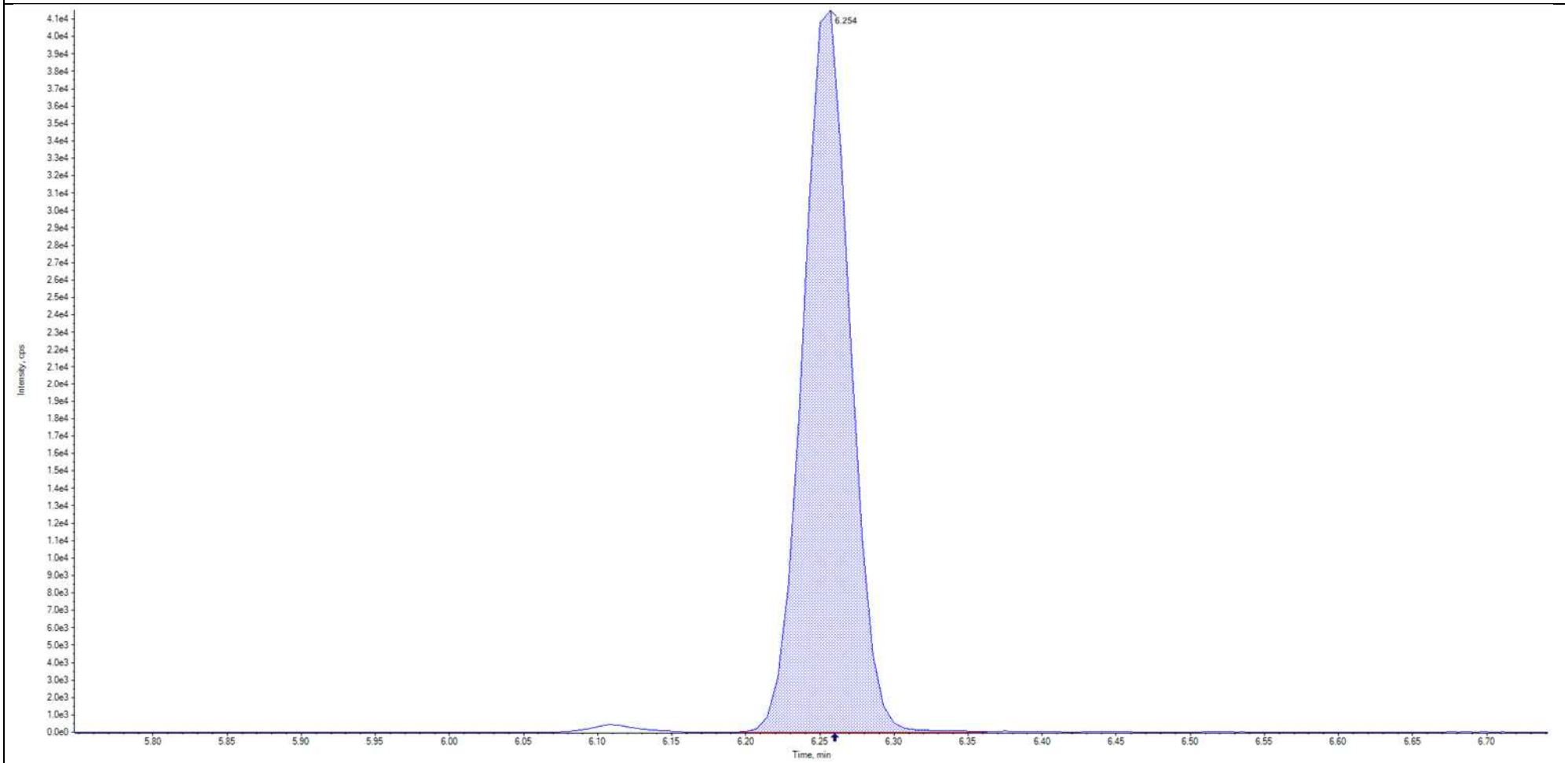
13C8-PFOSA
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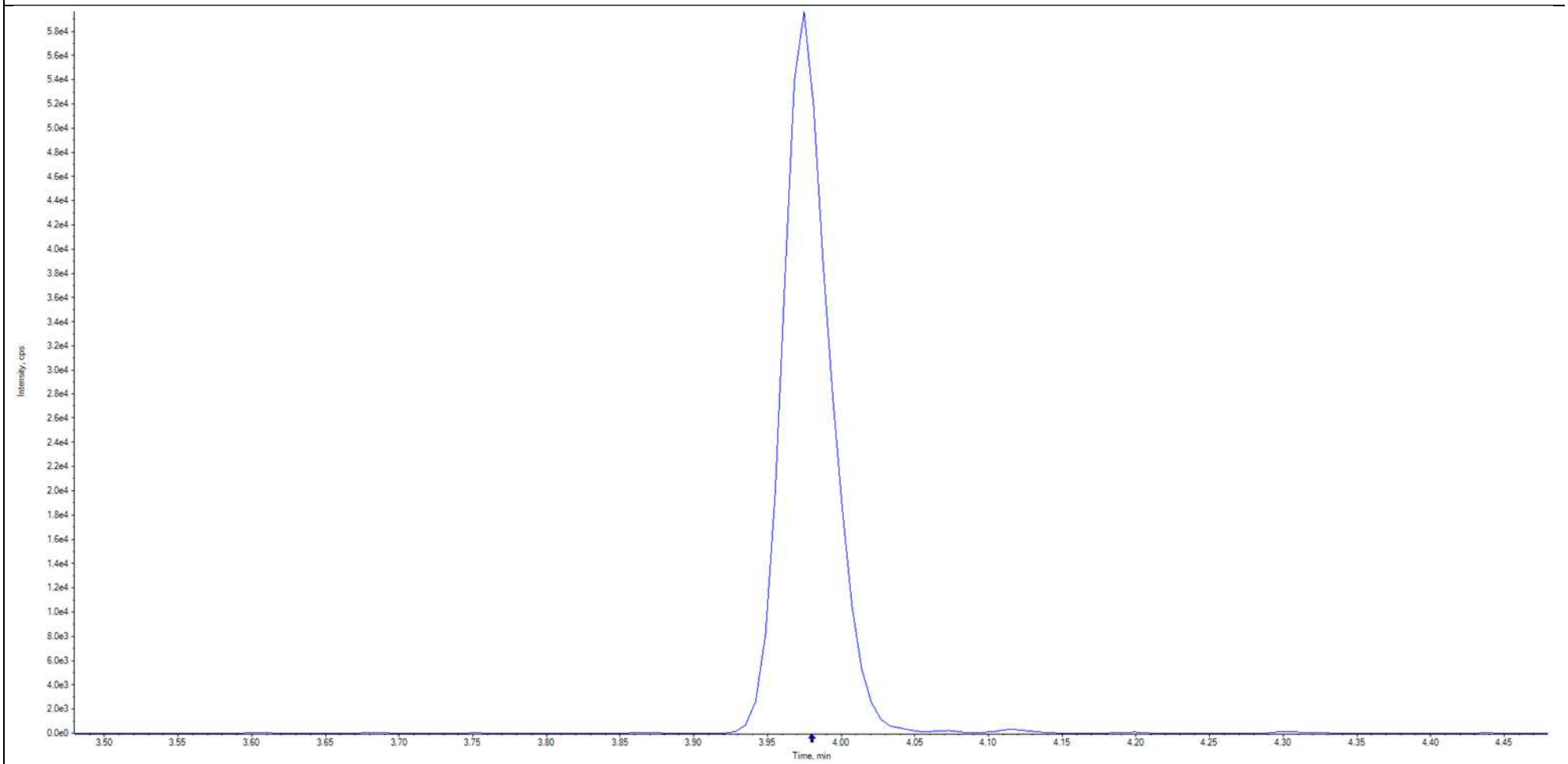
d3-NMeFOSA
Sample: IA1633STD-.1



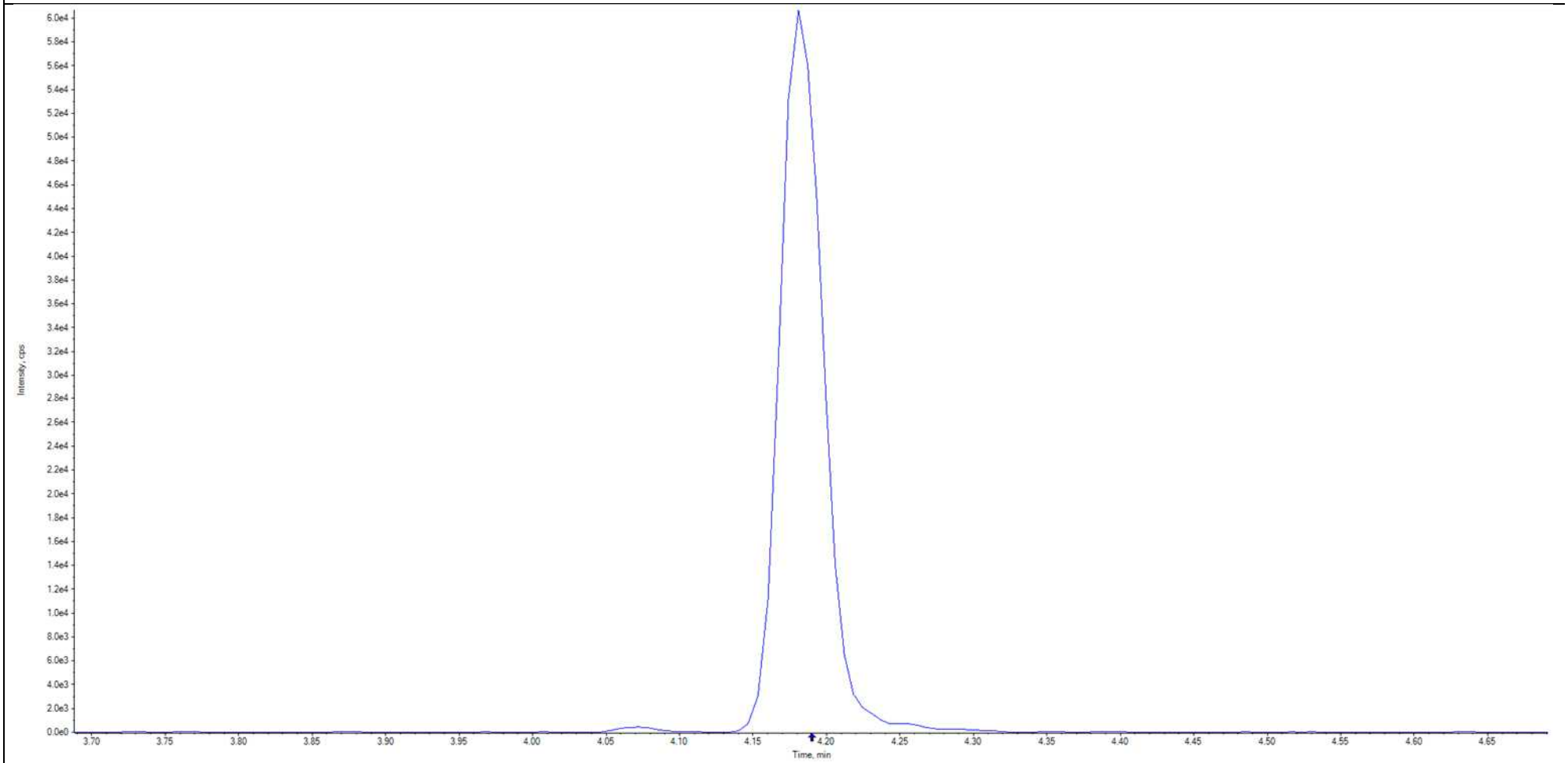
d5-NEtFOSA
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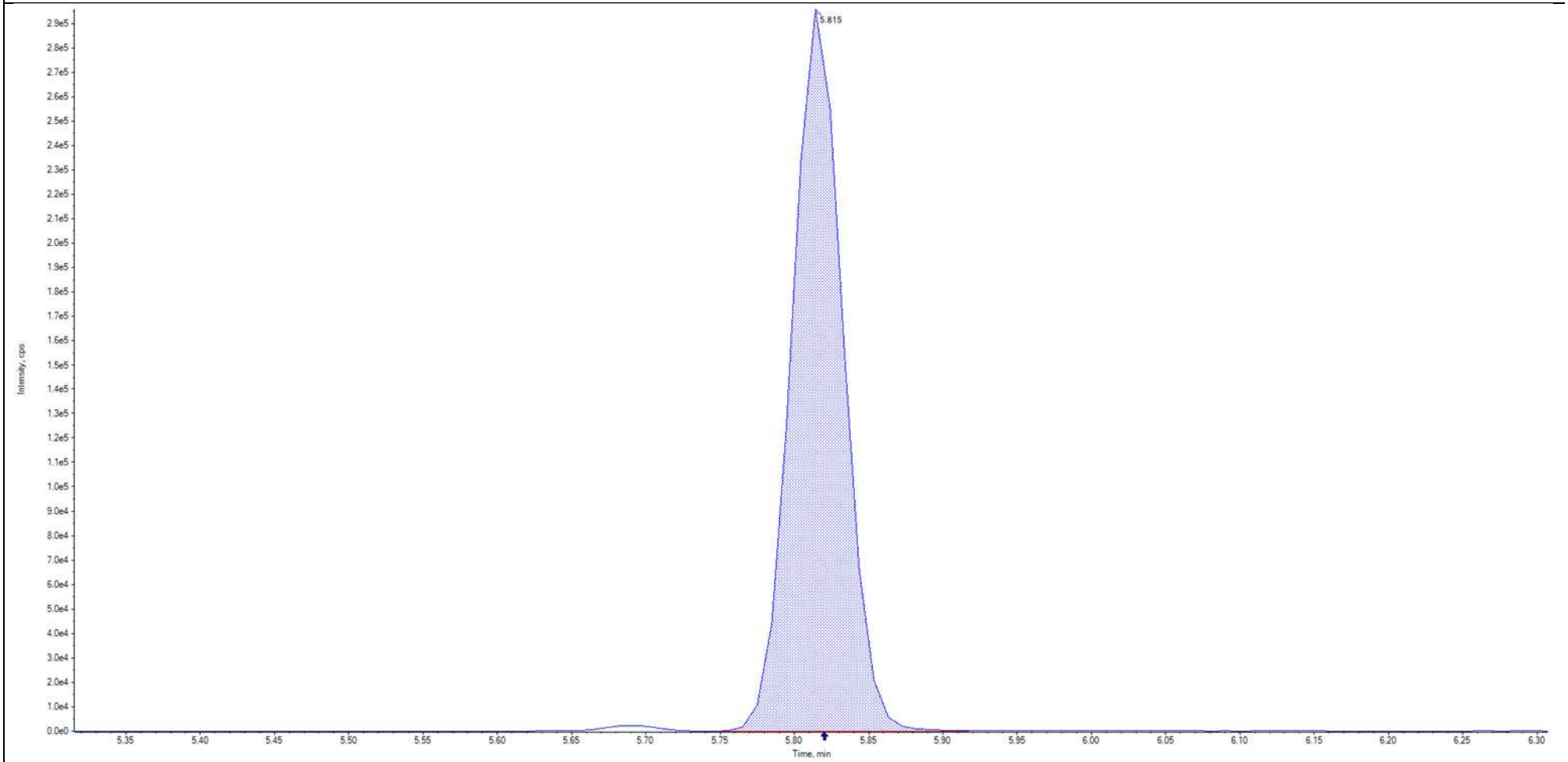
d3-NMeFOSAA
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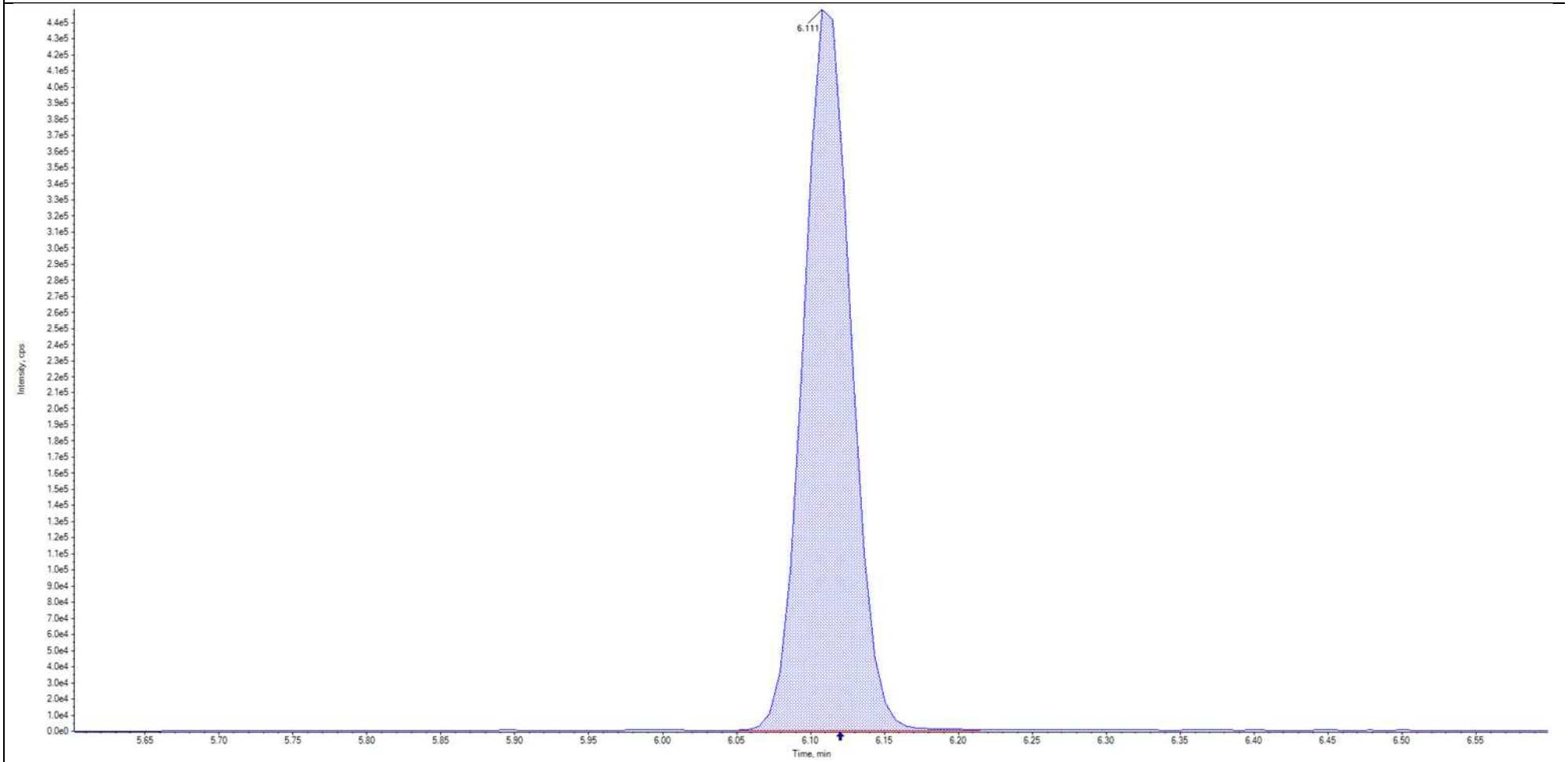
d5-NEtFOSAA
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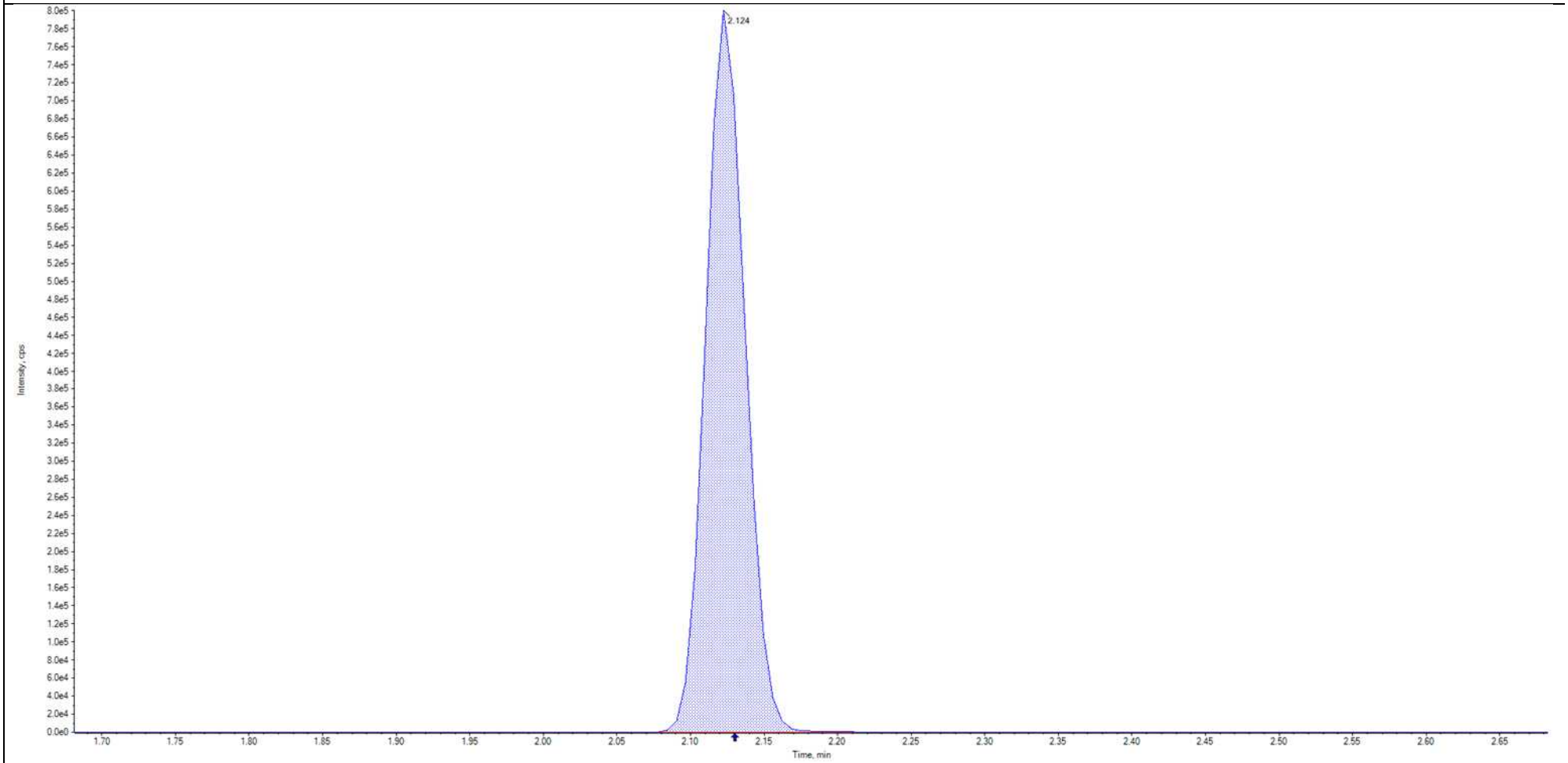
d7-NMeFOSE
Sample: IA1633STD-.1



d9-NEtFOSE
Sample: IA1633STD-.1

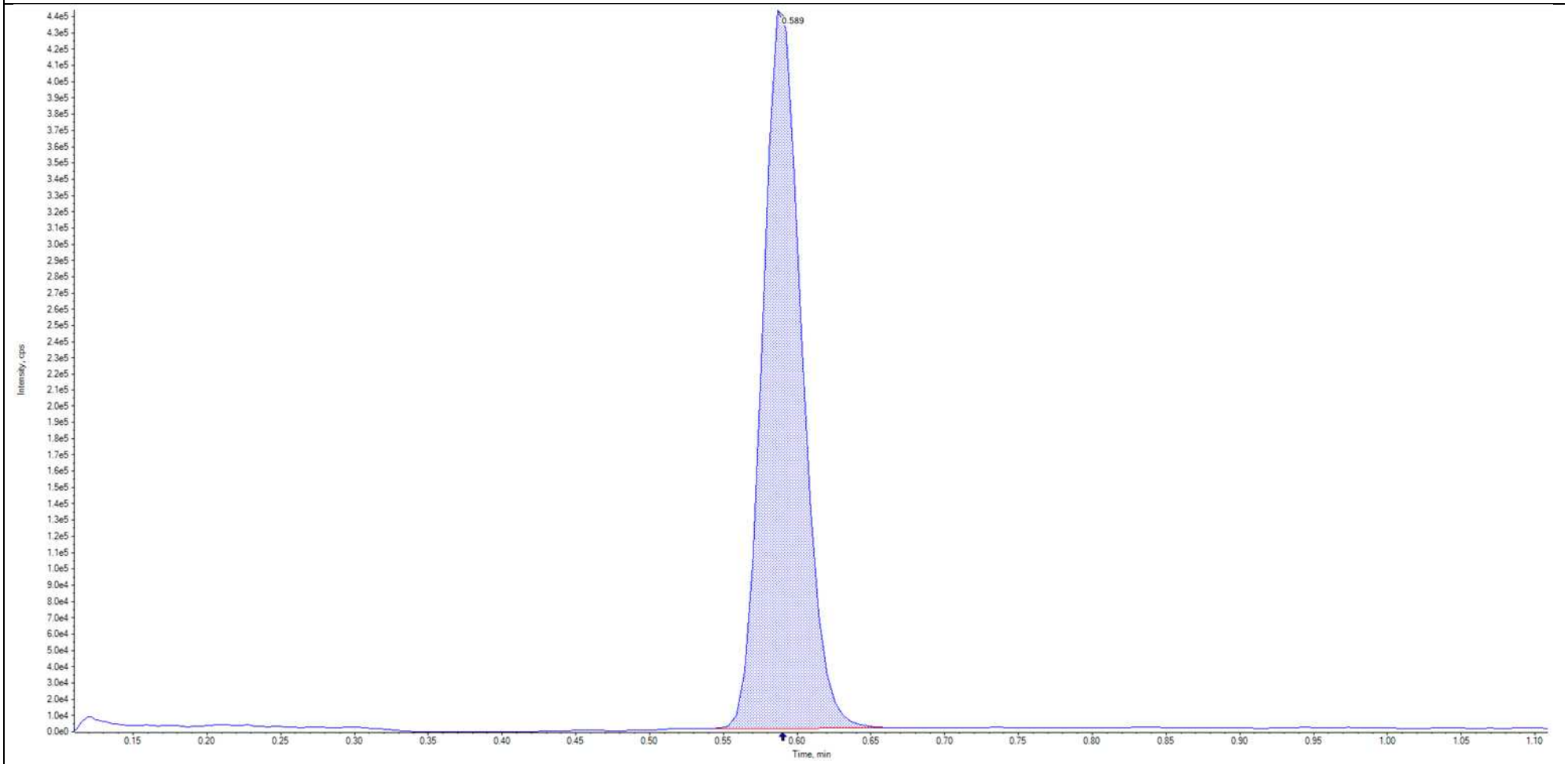


13C3-HFPO-DA
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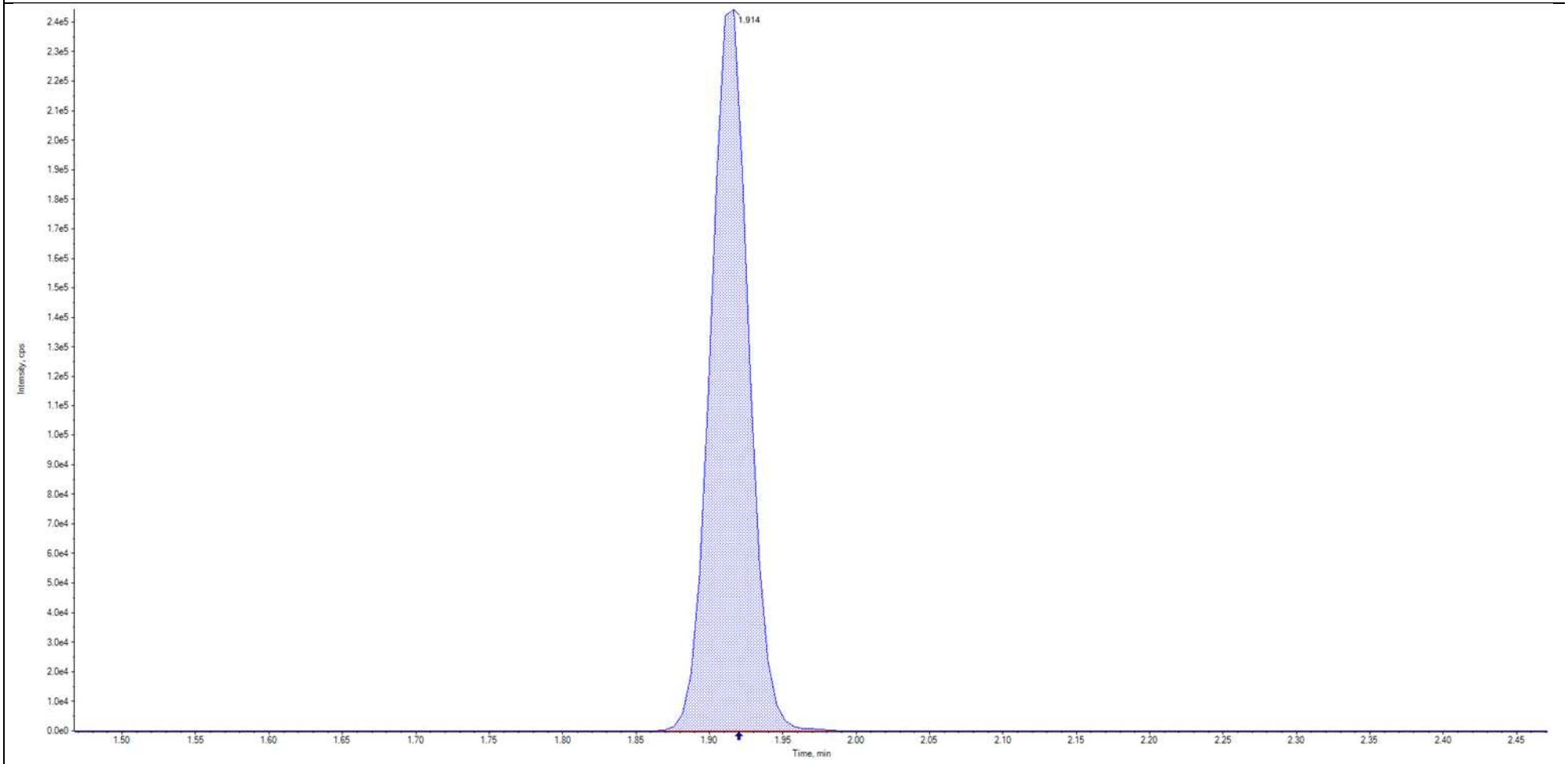


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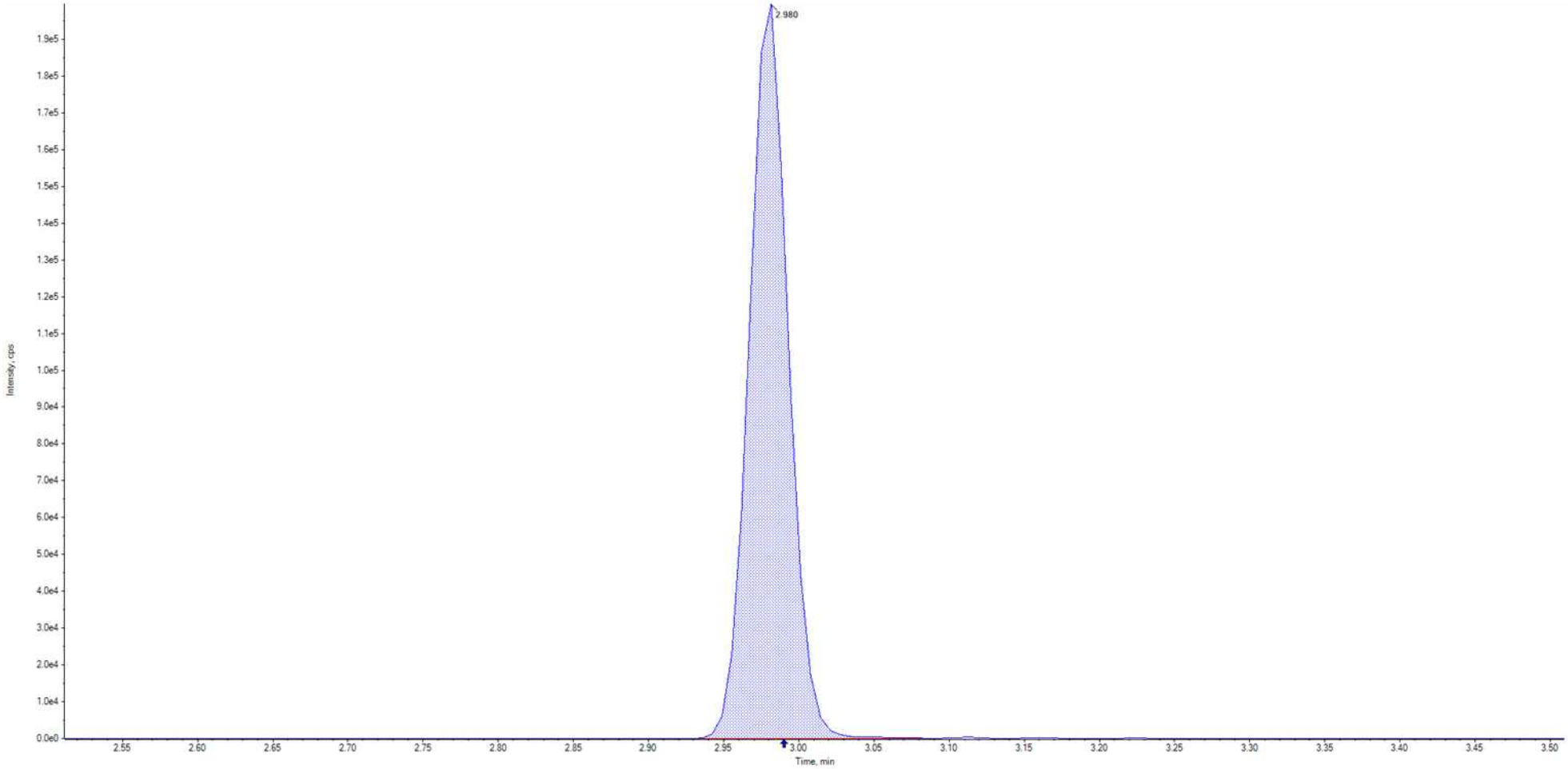
13C3-PFBA
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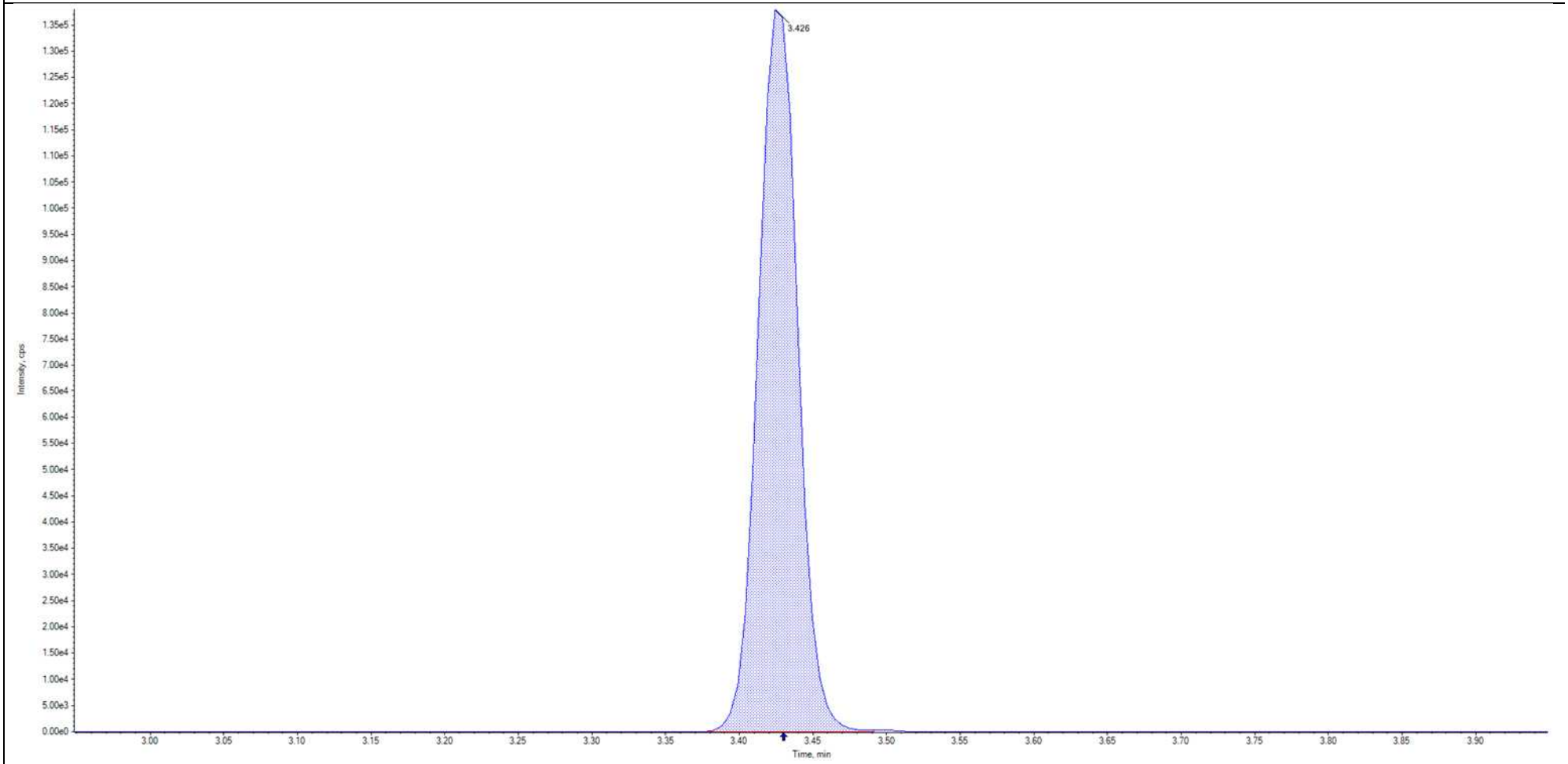
13C2-PFHxA
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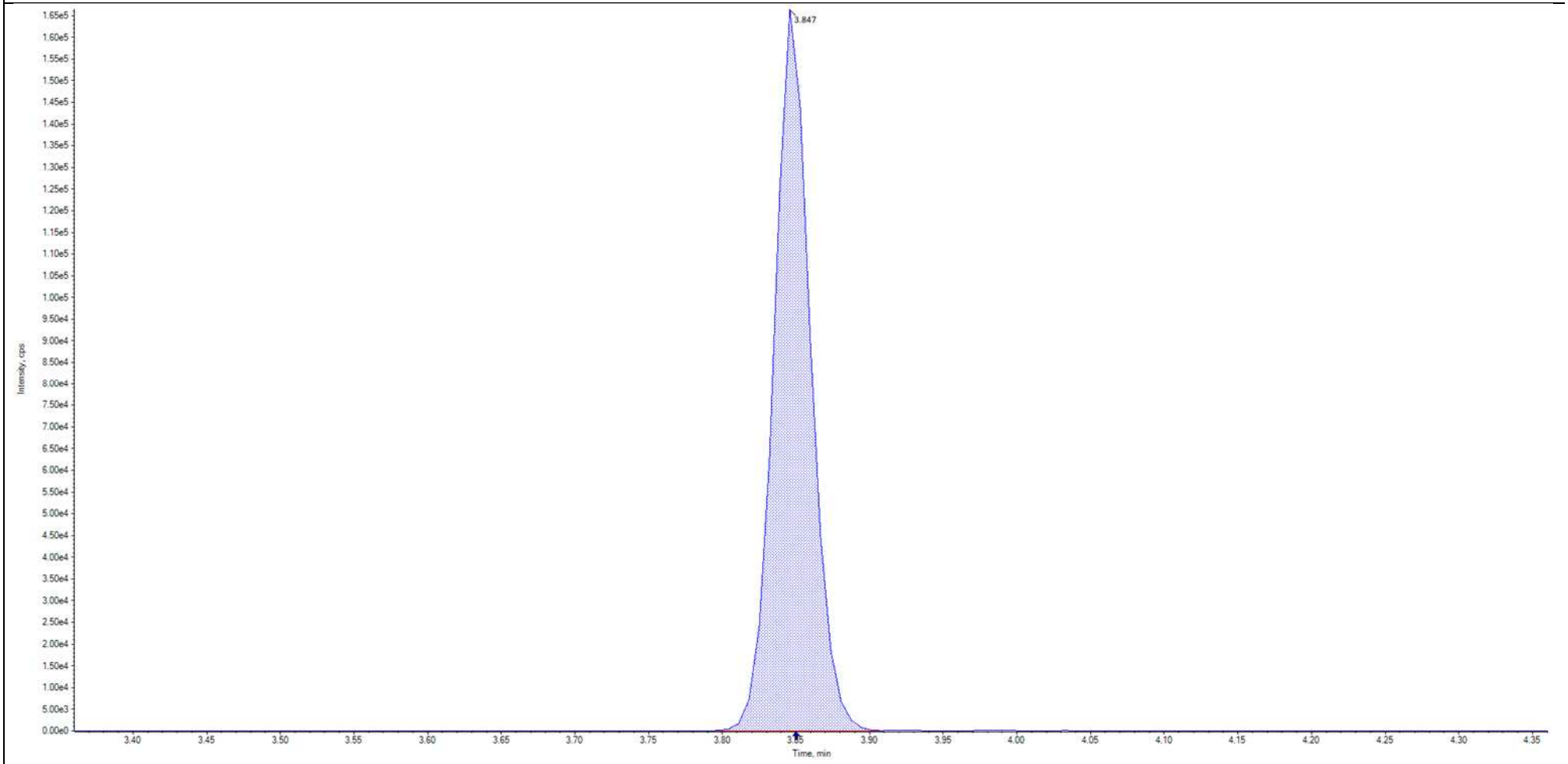
13C4-PFOA
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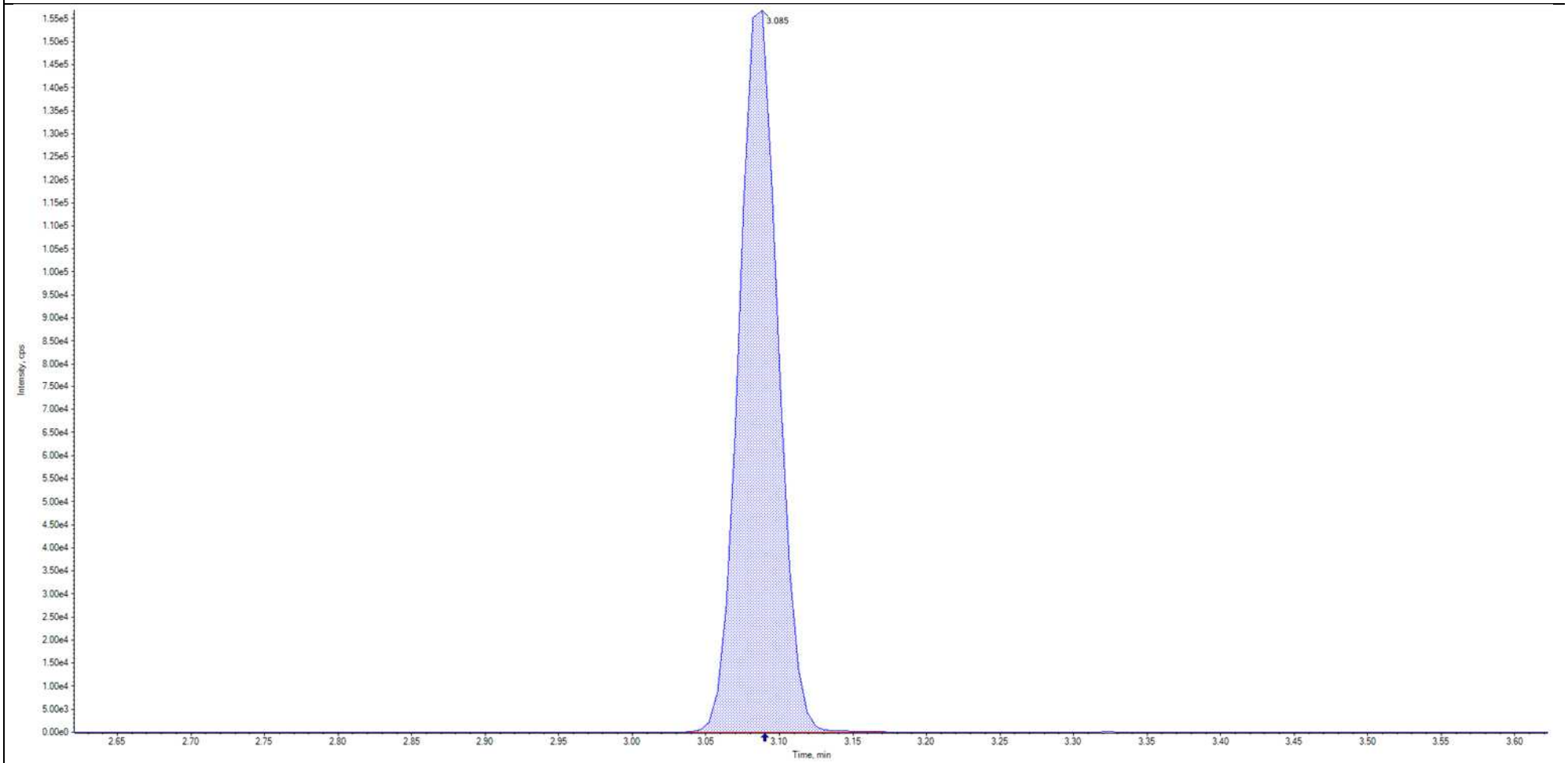
13C5-PFNA
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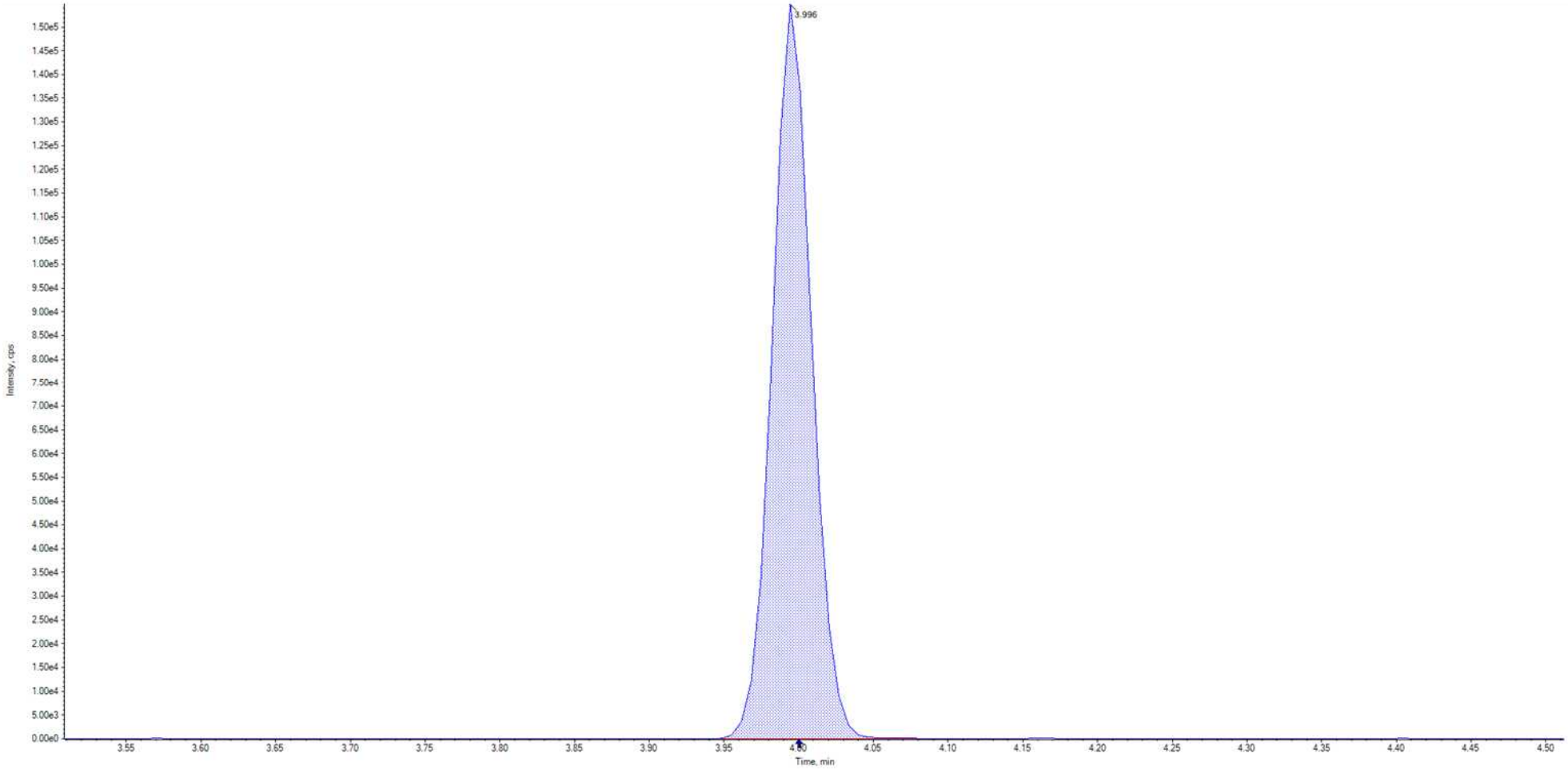
13C2-PFDA
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18O2-PFHxS
Sample: IA1633STD-.1



13C4-PFOS
Sample: IA1633STD-.1



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Alpha Analytical LLC
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Calibration: 250303_1633_ICAL

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Instrument: SCIEX Triple Quad 5500+
User: LCMS09:JW

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.59	213.0 / 169.0	127068	M4	0.730	N/A	N/A	N/A	91.3
2	PFPeA	2706-90-3	1.18	263.0 / 219.0	56781		0.369	0.006	N/A	N/A	92.4
3	PFPeA_2	2706-90-3	1.17	263.0 / 68.9	324	M2	0.300	0.006	N/A	N/A	75.1
4	PFHxA	307-24-4	1.92	313.0 / 269.0	36018		0.175	0.082	0.081	Pass	87.4
5	PFHxA_2	307-24-4	1.92	313.0 / 119.0	2949		0.168	0.082	0.081	Pass	84.1
6	PFHpA	375-85-9	2.49	363.1 / 319.0	34005		0.185	0.422	0.373	Pass	92.3
7	PFHpA_2	375-85-9	2.49	363.1 / 169.0	14334		0.197	0.422	0.373	Pass	98.6

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	2.99	413.1 / 369.1	43232	M5	0.200	0.410	0.424	Pass	100.1
9	PFOA_2	335-67-1	2.99	413.1 / 169.0	17739	M5	0.194	0.410	0.424	Pass	97.1
10	PFNA	375-95-1	3.43	462.8 / 418.9	27755	M5	0.182	0.490	0.493	Pass	91.1
11	PFNA_2	375-95-1	3.43	462.8 / 219.0	13595	M5	0.183	0.490	0.493	Pass	91.7
12	PFDA	335-76-2	3.85	513.1 / 469.1	39411		0.175	0.175	0.188	Pass	87.5
13	PFDA_2	335-76-2	3.85	513.1 / 219.0	6894		0.166	0.175	0.188	Pass	83.2
14	PFUnA	2058-94-8	4.26	563.1 / 519.1	43471		0.184	0.139	0.146	Pass	92.1
15	PFUnA_2	2058-94-8	4.26	563.1 / 269.0	6060		0.179	0.139	0.146	Pass	89.3
16	PFDoA	307-55-1	4.65	613.1 / 569.1	44569		0.183	0.137	0.142	Pass	91.3
17	PFDoA_2	307-55-1	4.65	613.1 / 319.0	6114		0.182	0.137	0.142	Pass	90.9
18	PFTrDA	72629-94-8	5.02	663.1 / 619.1	40928		0.191	0.150	0.152	Pass	95.5
19	PFTrDA_2	72629-94-8	5.03	663.1 / 169.0	6154		0.187	0.150	0.152	Pass	93.5
20	PFTeDA	376-06-7	5.40	713.1 / 669.1	39104		0.205	0.170	0.154	Pass	102.7
21	PFTeDA_2	376-06-7	5.39	713.1 / 169.0	6655		0.214	0.170	0.154	Pass	107.1
22	PFBS	375-73-5	1.92	299.1 / 80.1	28184		0.165	0.401	0.374	Pass	92.7

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.92	299.1 / 99.1	11309		0.190	0.401	0.374	Pass	101.0
24	PFPeS	2706-91-4	2.56	349.1 / 80.1	28269		0.181	0.315	0.314	Pass	96.2
25	PFPeS_2	2706-91-4	2.56	349.1 / 99.1	8904		0.181	0.315	0.314	Pass	96.4
26	PFHxS	355-46-4	3.09	399.1 / 80.1	26461	M5	0.185	0.280	0.306	Pass	101.8
27	PFHxS_2	355-46-4	3.09	399.1 / 99.1	7411	M5	0.179	0.280	0.306	Pass	98.5
28	PFHpS	375-92-8	3.57	449.1 / 80.1	25660		0.176	0.302	0.316	Pass	92.4
29	PFHpS_2	375-92-8	3.56	449.1 / 99.1	7738		0.173	0.302	0.316	Pass	91.0
30	PFOS	1763-23-1	4.00	499.1 / 80.1	31827	M5	0.179	0.227	0.244	Pass	96.2
31	PFOS_2	1763-23-1	4.00	499.1 / 99.1	7222	M5	0.162	0.227	0.244	Pass	86.9
32	PFNS	68259-12-1	4.41	549.1 / 80.1	21727		0.179	0.244	0.294	Pass	93.5
33	PFNS_2	68259-12-1	4.41	549.1 / 99.1	5292		0.153	0.244	0.294	Pass	79.6
34	PFDS	335-77-3	4.81	599.1 / 80.1	19910		0.167	0.309	0.290	Pass	86.7
35	PFDS_2	335-77-3	4.81	599.1 / 99.1	6158		0.183	0.309	0.290	Pass	95.0
36	PFDoS	79780-39-5	5.55	699.2 / 80.1	19036		0.176	0.275	0.256	Pass	90.5
37	PFDoS_2	79780-39-5	5.55	699.2 / 99.1	5233		0.187	0.275	0.256	Pass	96.6

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.71	327.1 / 307.1	24433		0.725	0.632	0.650	Pass	96.7
39	4:2FTS_2	757124-72-4	1.71	327.1 / 81.1	15443		0.710	0.632	0.650	Pass	94.7
40	6:2FTS	27619-97-2	2.80	427.2 / 407.2	23022		0.783	0.674	0.620	Pass	102.8
41	6:2FTS_2	27619-97-2	2.80	427.2 / 81.1	15505		0.822	0.674	0.620	Pass	108.1
42	8:2FTS	39108-34-4	3.67	527.2 / 507.2	16762		0.634	0.664	0.676	Pass	82.6
43	8:2FTS_2	39108-34-4	3.67	527.2 / 81.1	11122		0.611	0.664	0.676	Pass	79.6
44	PFOSA	754-91-6	5.23	498.1 / 78.1	36171	M5	0.187	0.025	0.026	Pass	93.5
45	PFOSA_2	754-91-6	5.20	498.1 / 478.0	894	M5	0.179	0.025	0.026	Pass	89.5
46	NMeFOSA	31506-32-8	5.97	512.2 / 219.0	8760	M5	0.177	1.399	1.377	Pass	88.3
47	NMeFOSA_2	31506-32-8	5.92	512.2 / 169.0	12252	M5	0.178	1.399	1.377	Pass	88.8
48	NEtFOSA	4151-50-2	6.27	526.2 / 219.0	8995	M5	0.186	1.175	1.292	Pass	93.0
49	NEtFOSA_2	4151-50-2	6.21	526.2 / 169.0	10573	M5	0.175	1.175	1.292	Pass	87.6
50	NMeFOSAA	2355-31-9	3.98	570.2 / 419.1	4800		0.180	0.750	0.697	Pass	90.1
51	NMeFOSAA_2	2355-31-9	3.98	570.2 / 483.0	3601	M5	0.188	0.750	0.697	Pass	94.1
52	NEtFOSAA	2991-50-6	4.19	584.2 / 419.1	4868	M5	0.191	0.377	0.557	Pass	95.5

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.19	584.2 / 526.2	1833		0.130	0.377	0.557	Pass	65.3
54	NMeFOSE	24448-09-7	5.84	616.1 / 58.9	127504	M5	1.806	N/A	N/A	N/A	90.3
55	NEtFOSE	1691-99-2	6.14	630.0 / 58.9	177295	M5	1.776	N/A	N/A	N/A	88.8
56	HFPO-DA	13252-13-6	2.13	285.0 / 169.0	116681		0.754	0.529	0.501	Pass	94.3
57	HFPO-DA_2	13252-13-6	2.13	285.0 / 184.9	61666		0.756	0.529	0.501	Pass	94.5
58	ADONA	919005-14-4	2.68	376.9 / 251.0	233906		0.862	0.660	0.691	Pass	114.0
59	ADONA_2	919005-14-4	2.68	376.9 / 84.8	154361		0.859	0.660	0.691	Pass	113.6
60	9Cl-PF3ONS	756426-58-1	4.29	530.8 / 351.1	226488		0.747	0.338	0.332	Pass	100.2
61	9Cl-PF3ONS_2	756426-58-1	4.29	532.8 / 353.0	76486		0.759	0.338	0.332	Pass	101.8
62	11Cl-PF3OUdS	763051-92-9	5.07	630.9 / 451.0	189028		0.738	0.331	0.322	Pass	97.8
63	11Cl-PF3OUdS_2	763051-92-9	5.07	632.9 / 452.9	62631		0.761	0.331	0.322	Pass	101.0
64	3:3FTCA	356-02-5	1.56	241.1 / 177.1	8501		0.716	1.556	1.010	Fail	71.6
65	3:3FTCA_2	356-02-5	1.57	241.1 / 117.0	13226		1.026	1.556	1.010	Fail	102.6
66	5:3FTCA	914637-49-3	3.03	341.1 / 237.1	229481		4.451	1.008	1.017	Pass	89.0
67	5:3FTCA_2	914637-49-3	3.03	341.1 / 217.0	231246		4.452	1.008	1.017	Pass	89.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.06	441.1 / 316.9	175038		4.235	1.446	1.343	Pass	84.7
69	7:3FTCA_2	812-70-4	4.06	441.1 / 337.1	253028		4.631	1.446	1.343	Pass	92.6
70	PFEESA	113507-82-7	2.22	315.1 / 135.0	156562		0.292	0.075	0.081	Pass	81.9
71	PFEESA_2	113507-82-7	2.22	315.1 / 82.9	11694		0.265	0.075	0.081	Pass	74.3
72	PFMPA	377-73-1	0.75	229.0 / 85.0	59828		0.329	N/A	N/A	N/A	82.2
73	PFMBA	863090-89-5	1.44	279.0 / 85.0	61803		0.351	N/A	N/A	N/A	87.8
74	NFDHA	151772-58-6	1.84	295.0 / 201.0	47725		0.340	0.703	0.681	Pass	85.1
75	NFDHA_2	151772-58-6	1.84	295.0 / 84.9	33550		0.338	0.703	0.681	Pass	84.5
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	1.70	333.2 / 312.1	140273		5.357	N/A	N/A	N/A	107.1
79	13C2-PFOA	Surr	2.98	415.0 / 370.0	328744		2.678	N/A	N/A	N/A	107.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.59	217.0 / 172.0	1947174		11.062	NA	NA	NA	110.6

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.18	268.0 / 223.0	800811		5.604	NA	NA	NA	112.1
	13C5-PFHxA	EIS	1.91	318.0 / 273.0	402484		2.996	NA	NA	NA	119.8
	13C4-PFHpA	EIS	2.49	367.0 / 322.0	317089		2.446	NA	NA	NA	97.9
	13C8-PFOA	EIS	2.98	420.8 / 376.0	631571		2.862	NA	NA	NA	114.5
	13C9-PFNA	EIS	3.43	472.0 / 427.0	282319		1.408	NA	NA	NA	112.7
	13C6-PFDA	EIS	3.85	519.0 / 474.0	318284		1.475	NA	NA	NA	118.0
	13C7-PFUnA	EIS	4.25	570.0 / 525.0	348435		1.463	NA	NA	NA	117.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.64	615.1 / 570.0	322716		1.347	NA	NA	NA	107.8
	13C2-PFTeDA	EIS	5.39	715.1 / 670.1	209325		1.348	NA	NA	NA	107.8
	13C3-PFBS	EIS	1.91	302.1 / 80.1	374570		2.522	NA	NA	NA	108.2
	13C3-PFHxS	EIS	3.09	402.1 / 80.1	326840		2.476	NA	NA	NA	104.5
	13C8-PFOS	EIS	4.00	507.1 / 80.1	373057		2.582	NA	NA	NA	107.6
	13C2-4:2FTS	EIS	1.71	329.1 / 81.1	102658		4.687	NA	NA	NA	99.9
	13C2-6:2FTS	EIS	2.80	429.2 / 81.1	87052		4.617	NA	NA	NA	97.0
	13C2-8:2FTS	EIS	3.67	529.2 / 81.1	95336		4.994	NA	NA	NA	104.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C8-PFOSA	EIS	5.23	506.1 / 78.1	603787		2.632	NA	NA	NA	105.3
	d3-NMeFOSA	EIS	5.96	515.2 / 219.0	110685		2.672	NA	NA	NA	106.9
	d5-NEtFOSA	EIS	6.25	531.2 / 219.0	99227		2.635	NA	NA	NA	105.4
	d3-NMeFOSAA	EIS	3.97	573.2 / 419.1	146487		5.169	NA	NA	NA	103.4
	d5-NEtFOSAA	EIS	4.18	589.3 / 419.1	117547		5.191	NA	NA	NA	103.8
	d7-NMeFOSE	EIS	5.82	623.2 / 58.9	779193		26.155	NA	NA	NA	104.6
	d9-NEtFOSE	EIS	6.11	639.2 / 58.9	1056953		26.448	NA	NA	NA	105.8

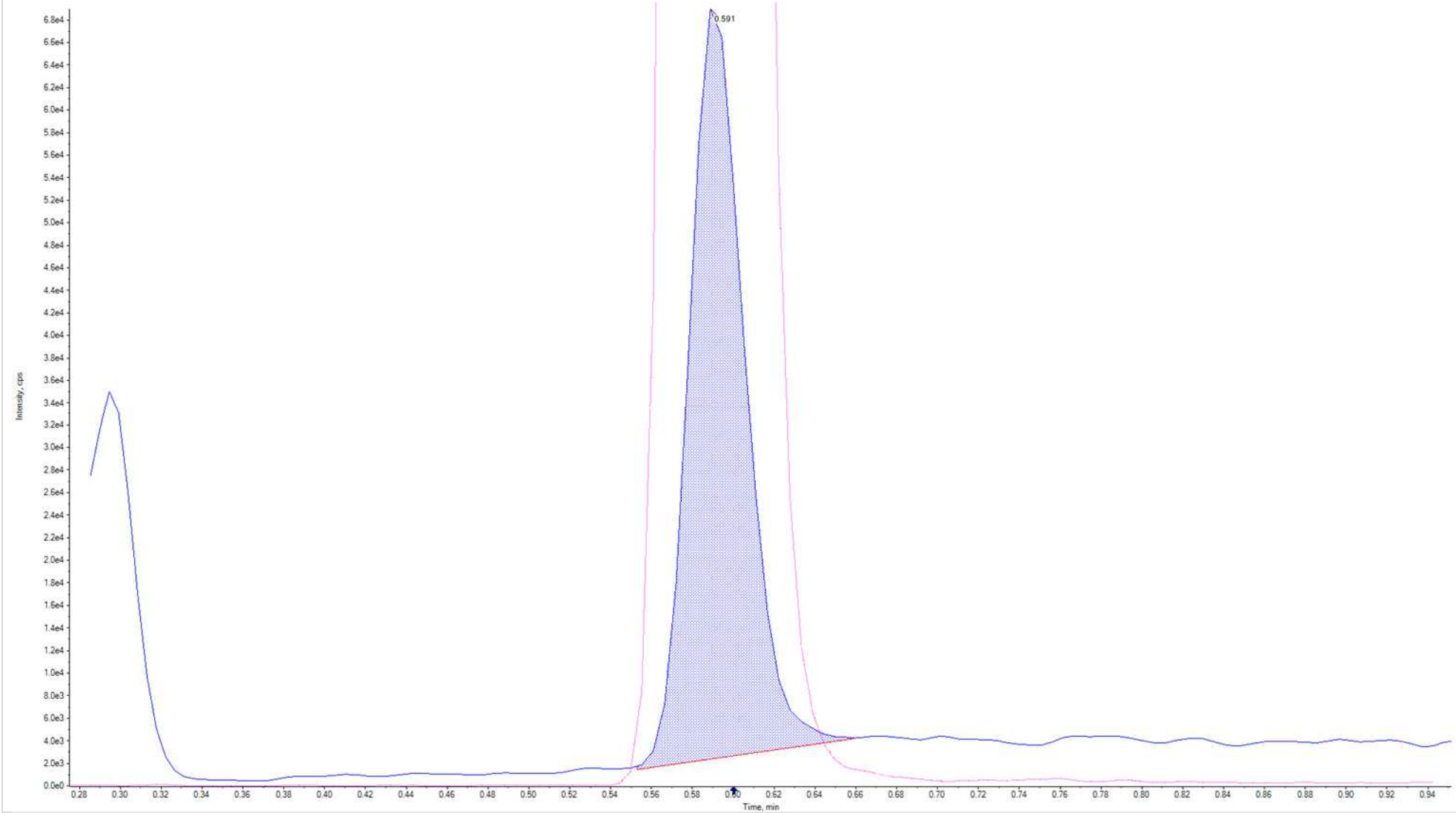
	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.12	287.0 / 169.0	1526747		10.743	NA	NA	NA	107.4
	13C3-PFBA	NIS	0.59	216.0 / 172.0	778874		5.374	NA	NA	NA	107.5
	13C2-PFHxA	NIS	1.91	315.0 / 270.0	395634		2.441	NA	NA	NA	97.6
	13C4-PFOA	NIS	2.98	417.0 / 372.0	335378		2.333	NA	NA	NA	93.3
	13C5-PFNA	NIS	3.43	468.0 / 423.0	251093		1.218	NA	NA	NA	97.5
	13C2-PFDA	NIS	3.85	515.1 / 470.1	251837		1.184	NA	NA	NA	94.7
	18O2-PFHxS	NIS	3.09	403.1 / 84.1	277579		2.358	NA	NA	NA	99.5
	13C4-PFOS	NIS	3.99	503.1 / 80.1	290646		2.418	NA	NA	NA	100.7

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

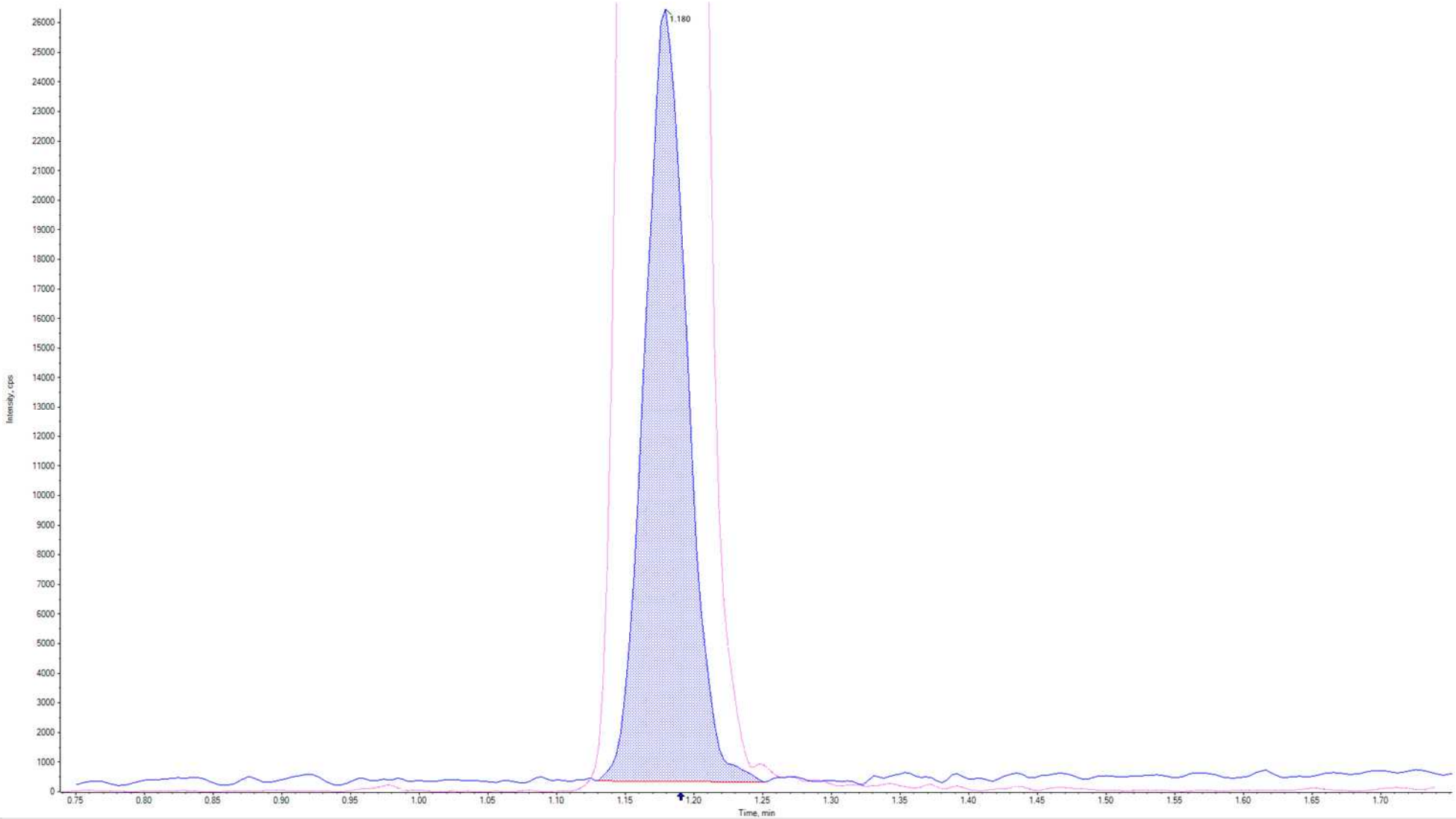
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFBA
Sample: IA1633STD-.2 S/N:338.9 Points Across peak:21



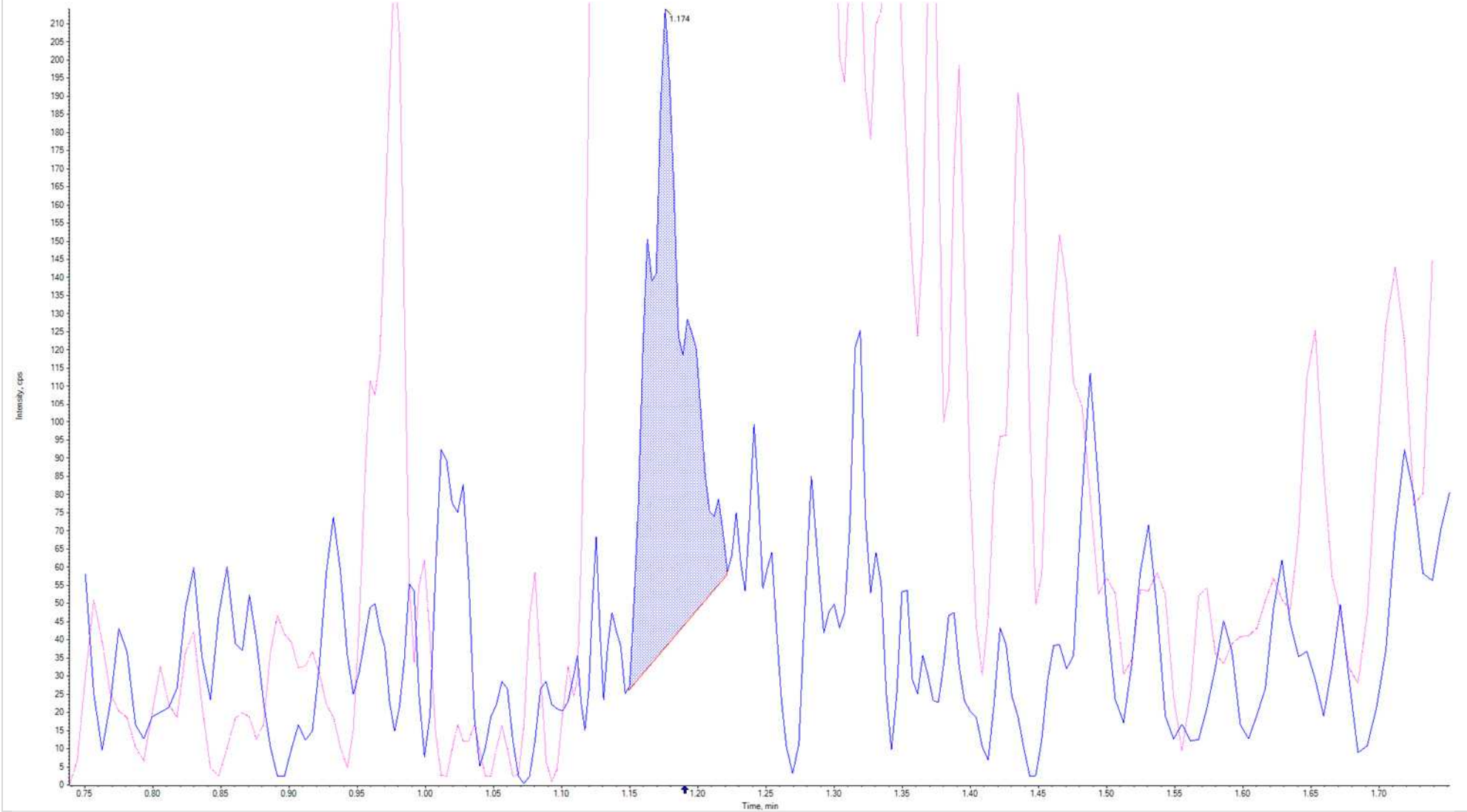
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Alpha Analytical LLC
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PFPeA
Sample: IA1633STD-.2 S/N:647.1 Points Across peak:39



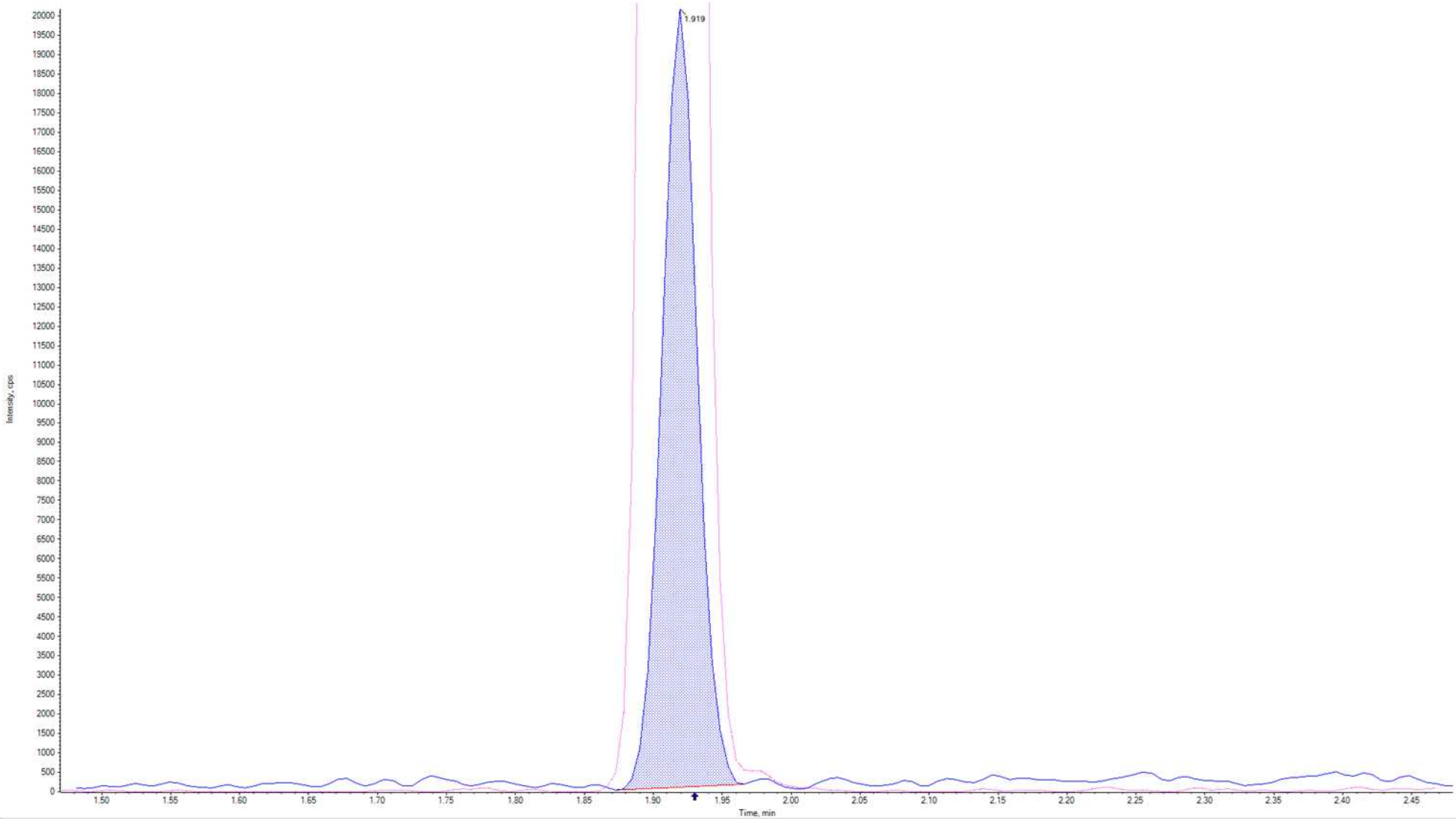
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Alpha Analytical LLC
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PFPeA_2
Sample: IA1633STD-.2 S/N:10.6 Points Across peak:24



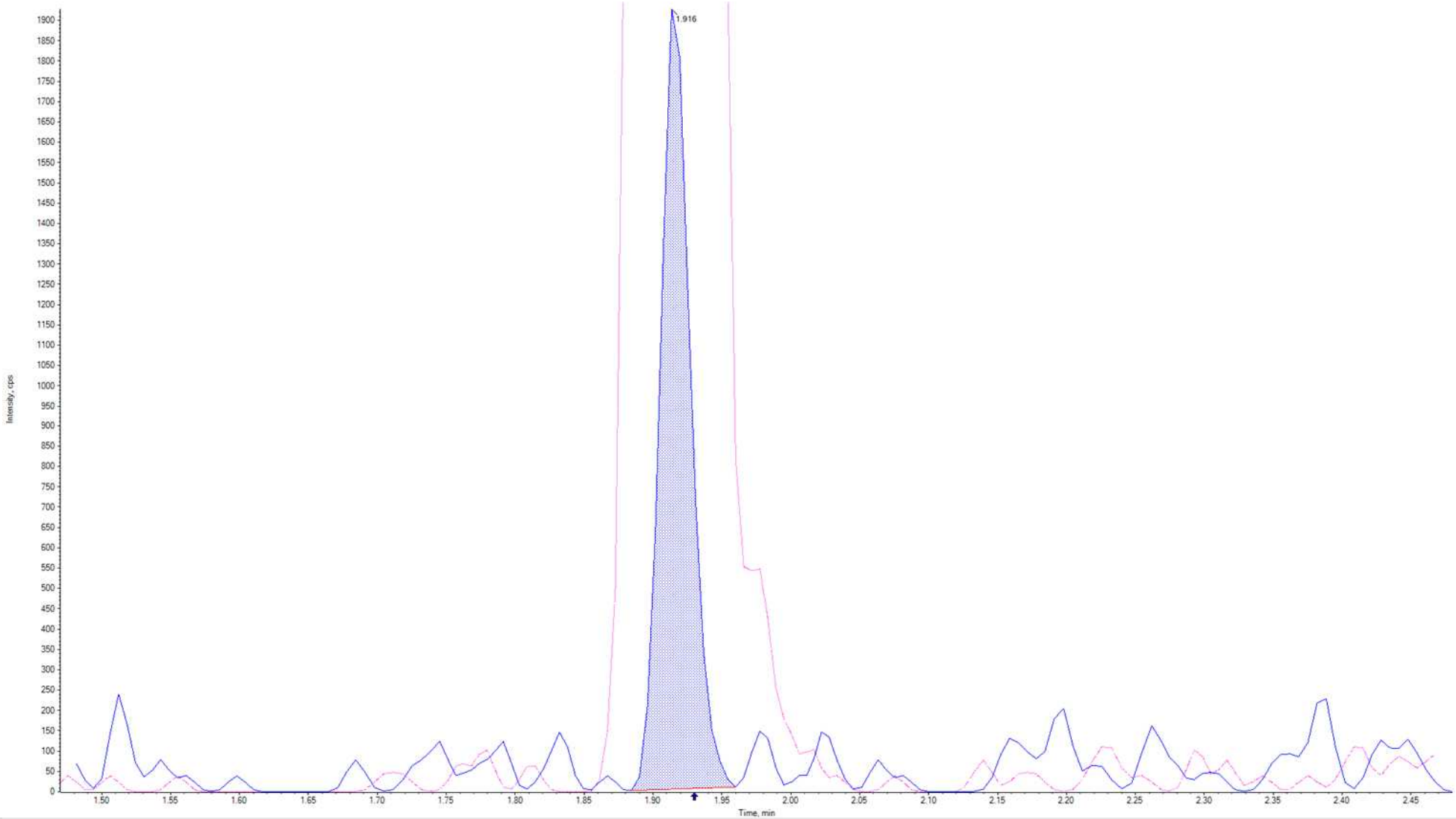
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Alpha Analytical LLC
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PFHxA
Sample: IA1633STD-.2 S/N:502.7 Points Across peak:17



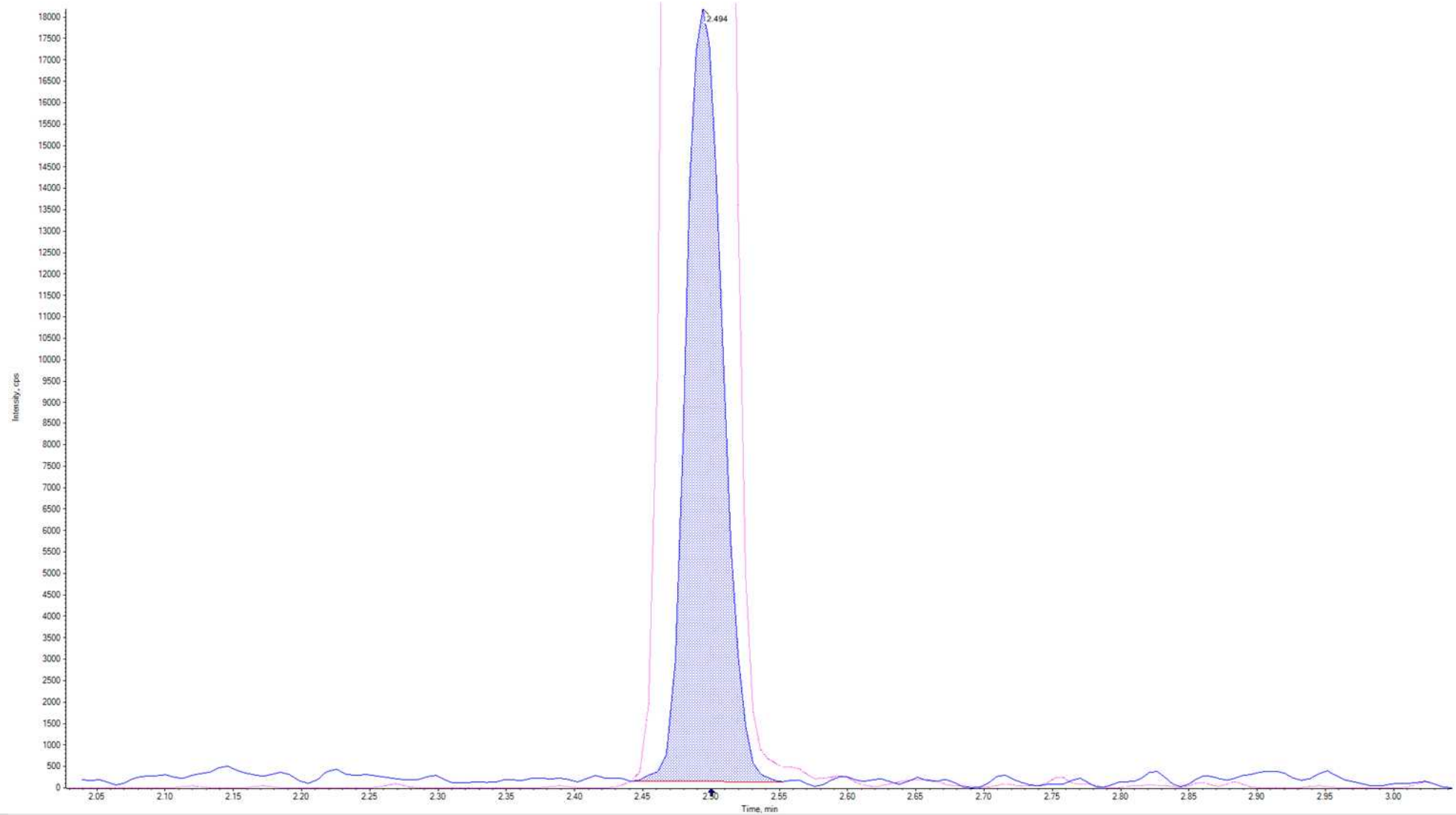
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Alpha Analytical LLC
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PFHxA_2
Sample: IA1633STD-.2 S/N:48.2 Points Across peak:14



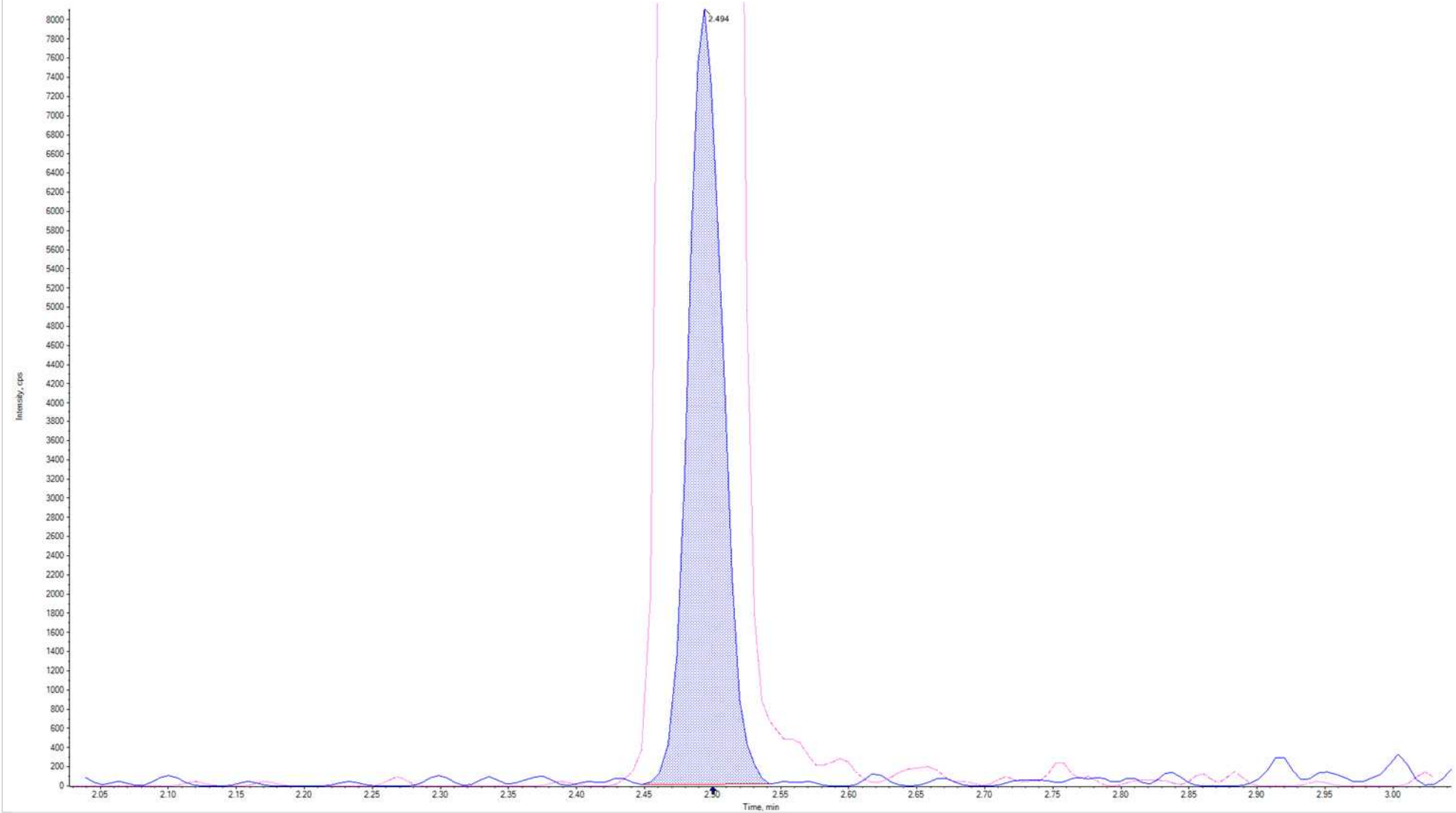
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Alpha Analytical LLC
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PFHpA
Sample: IA1633STD-.2 S/N:361.7 Points Across peak:21



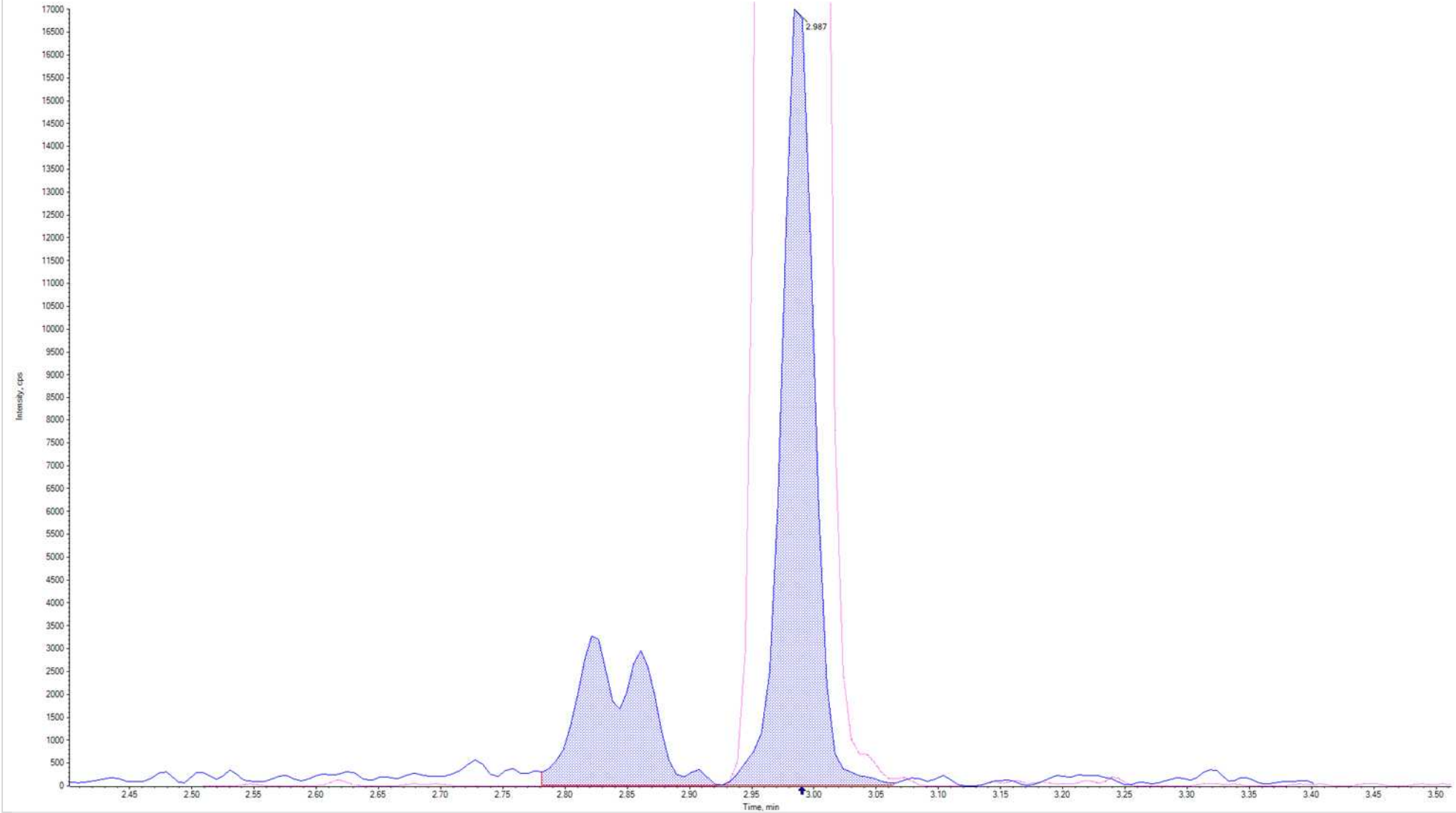
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Alpha Analytical LLC
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PFHpA_2
Sample: IA1633STD-.2 S/N:162.3 Points Across peak:18



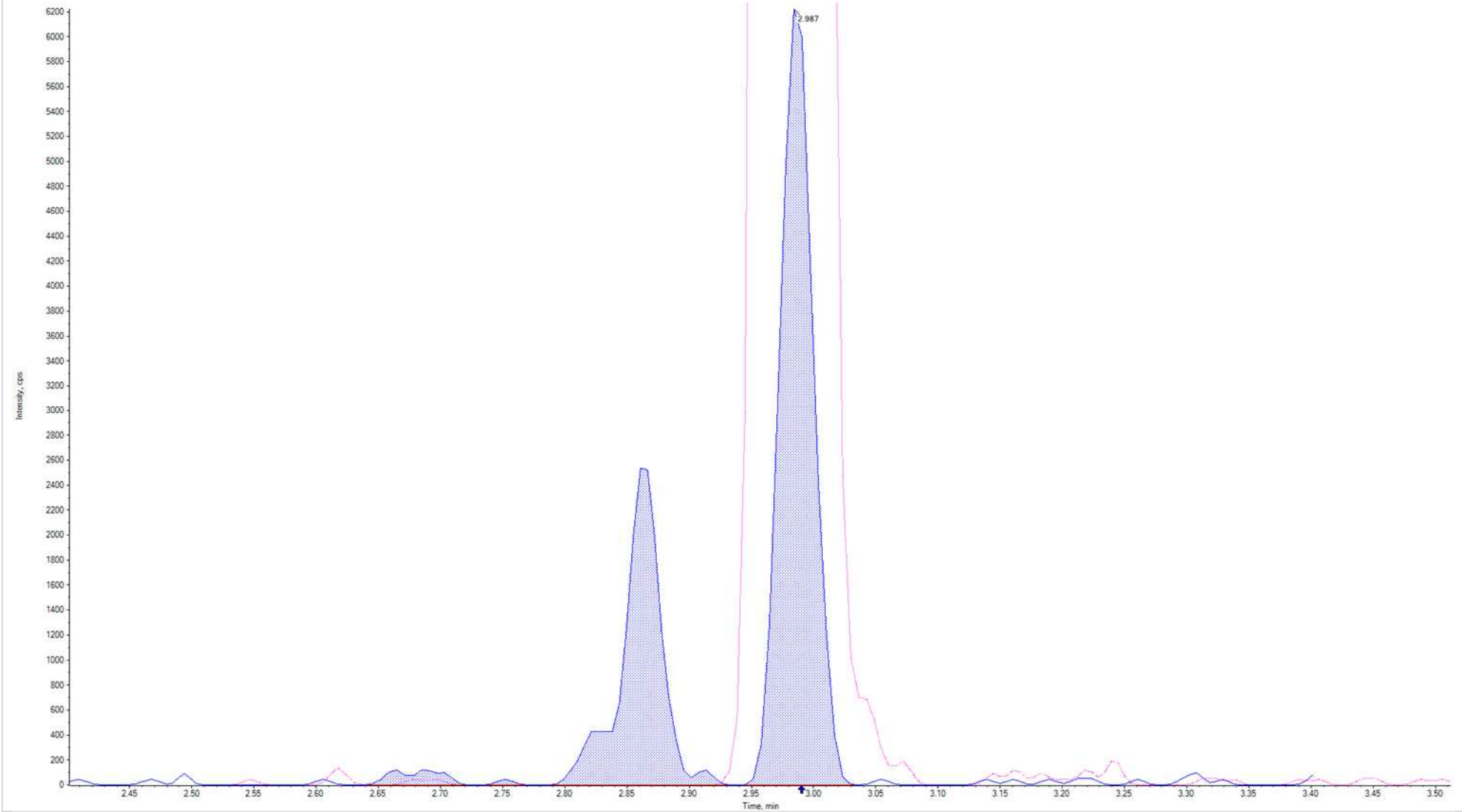
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Alpha Analytical LLC
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PFOA
Sample: IA1633STD-.2 S/N:181.6 Points Across peak:49



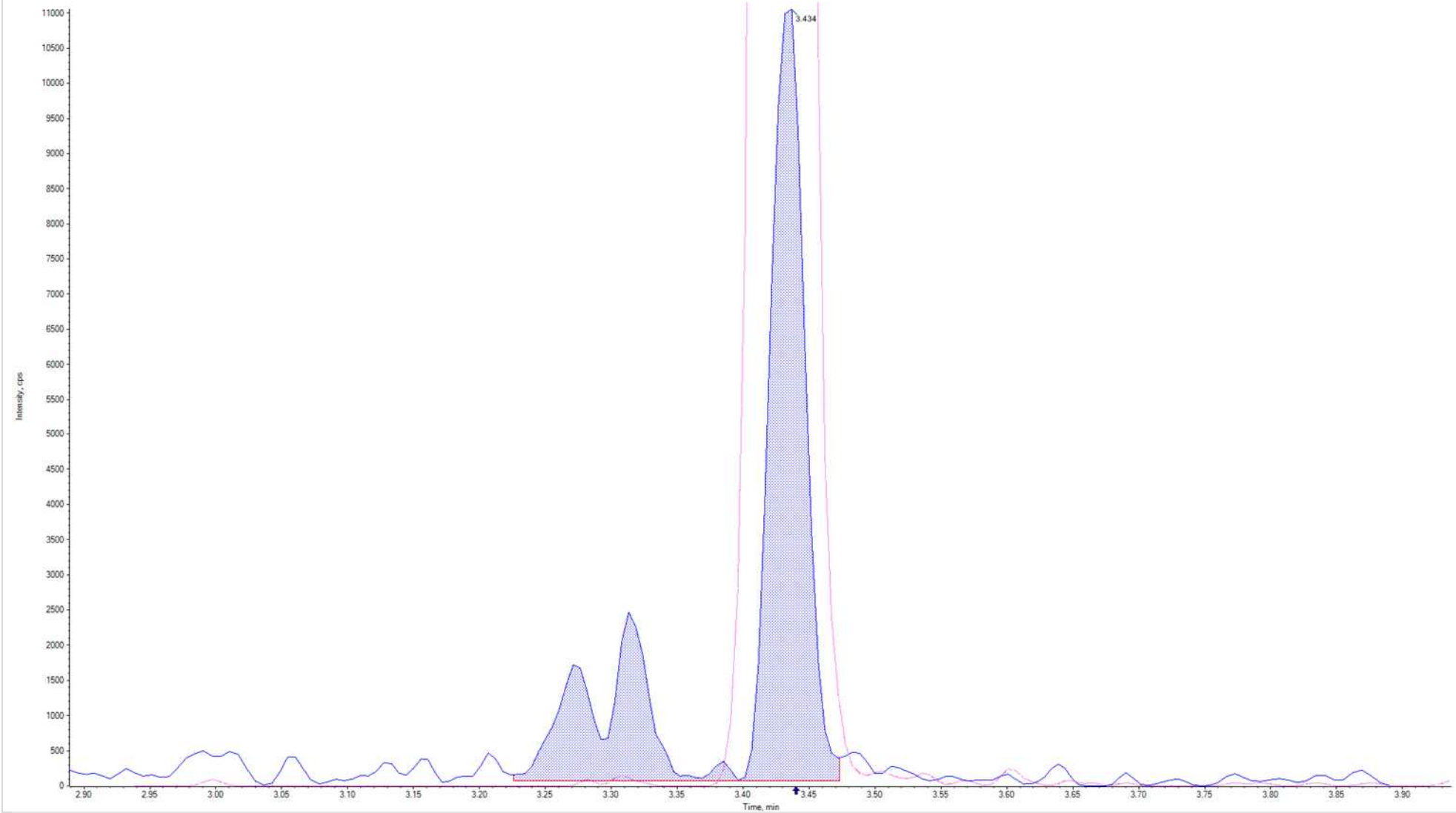
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Alpha Analytical LLC
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PFOA_2
Sample: IA1633STD-.2 S/N:140.3 Points Across peak:66



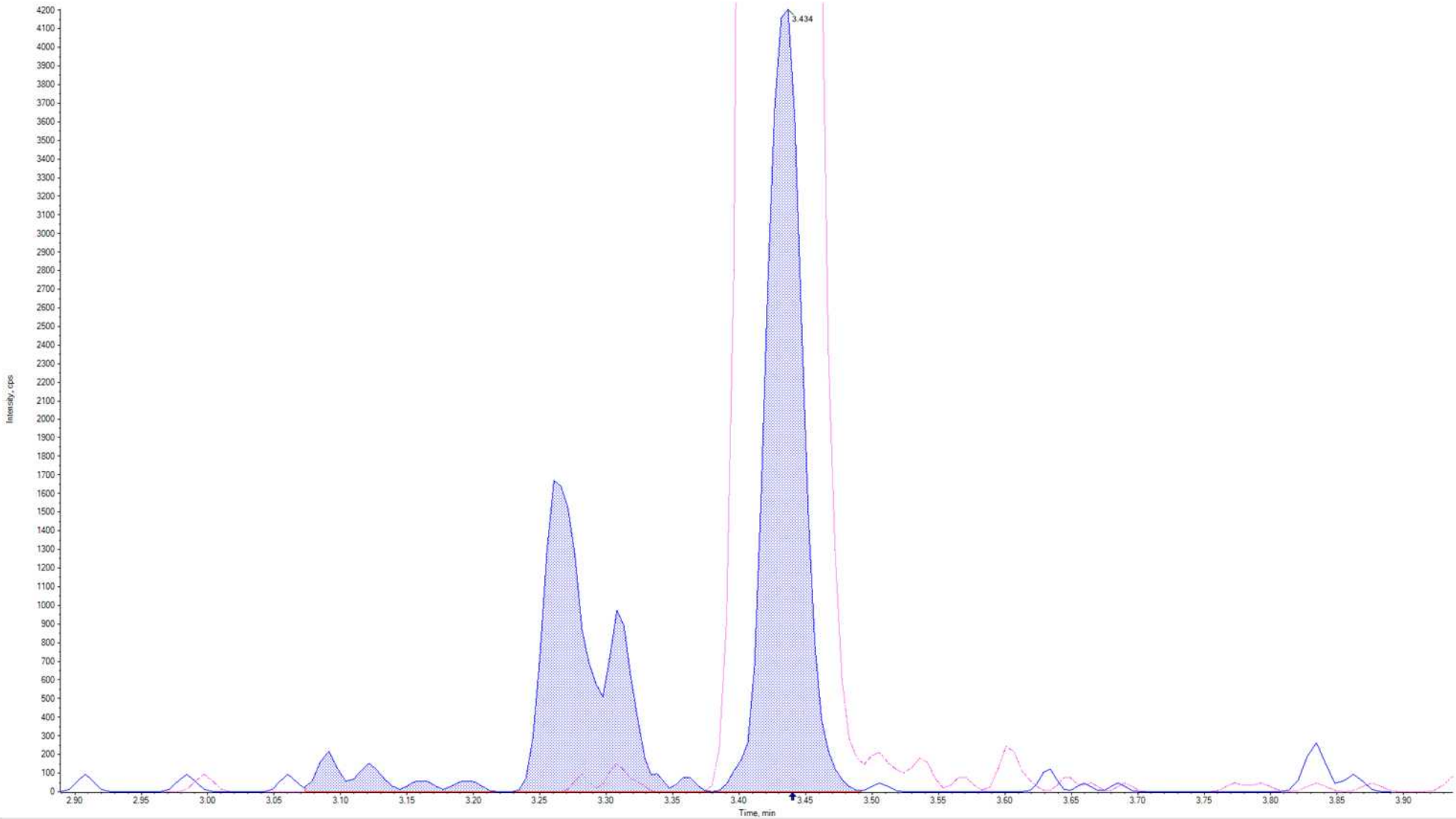
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PFNA
Sample: IA1633STD-.2 S/N:110.6 Points Across peak:50



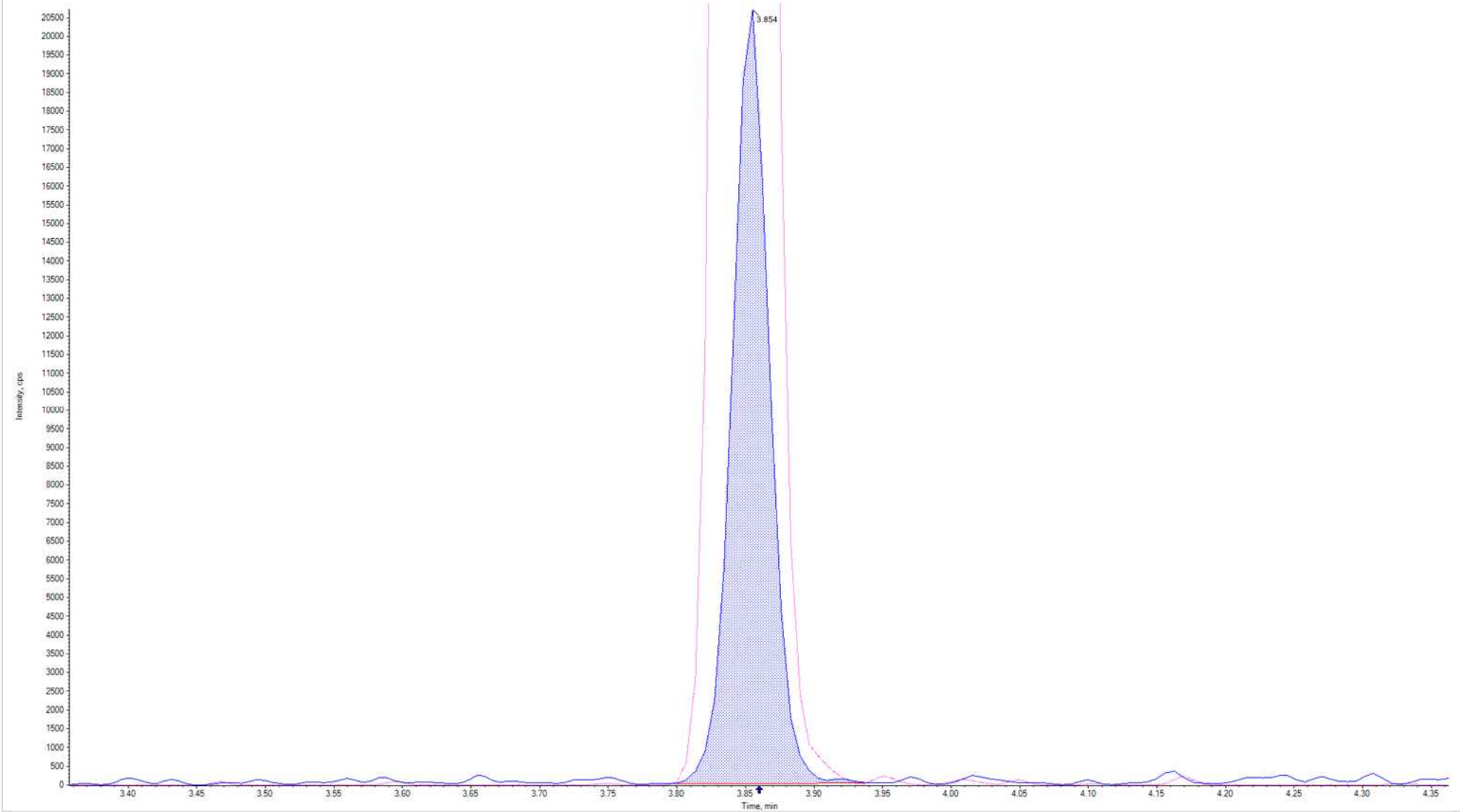
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PFNA_2
Sample: IA1633STD-.2 S/N:94.9 Points Across peak:79



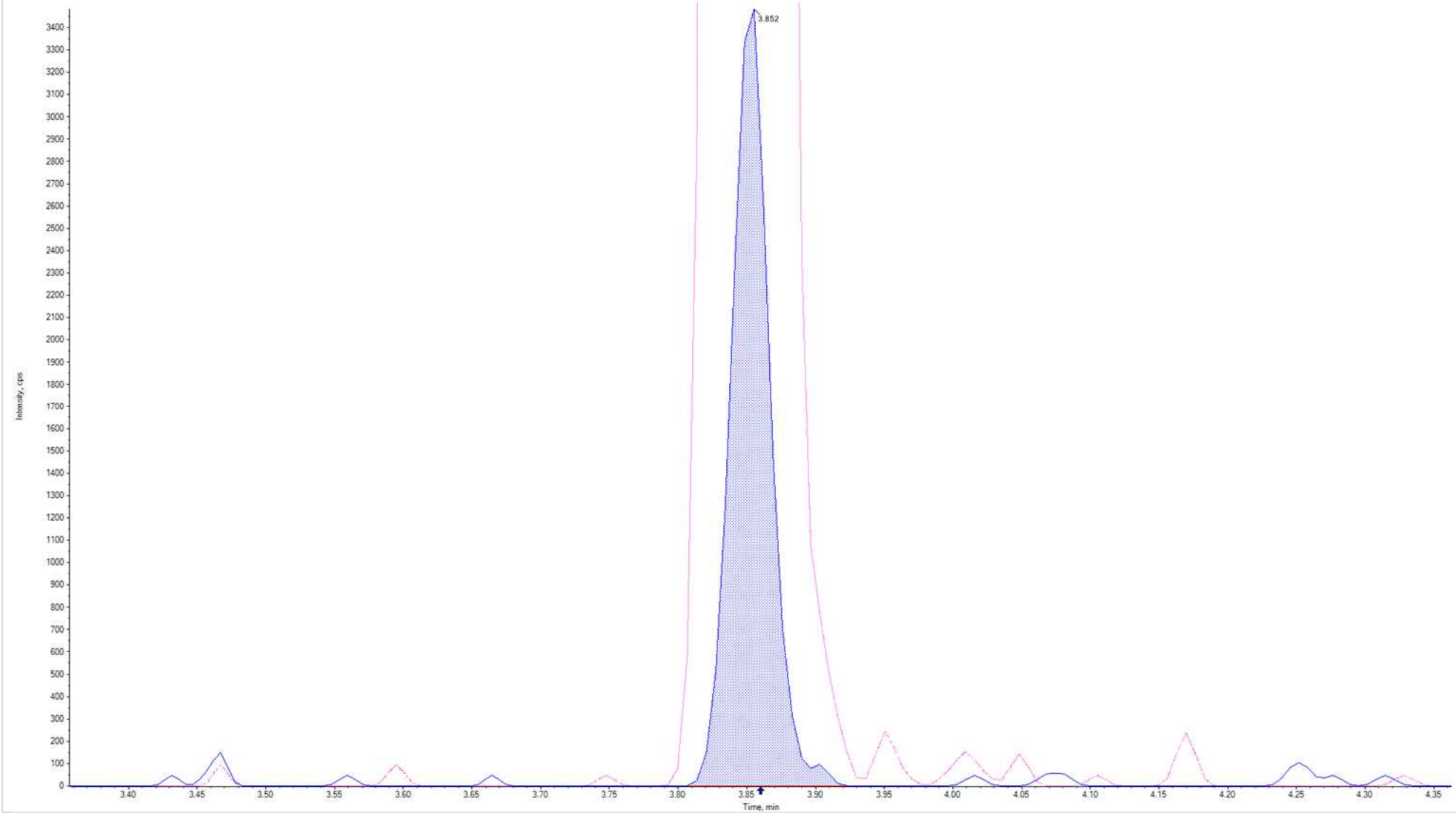
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PFDA
Sample: IA1633STD-.2 S/N:414.4 Points Across peak:25



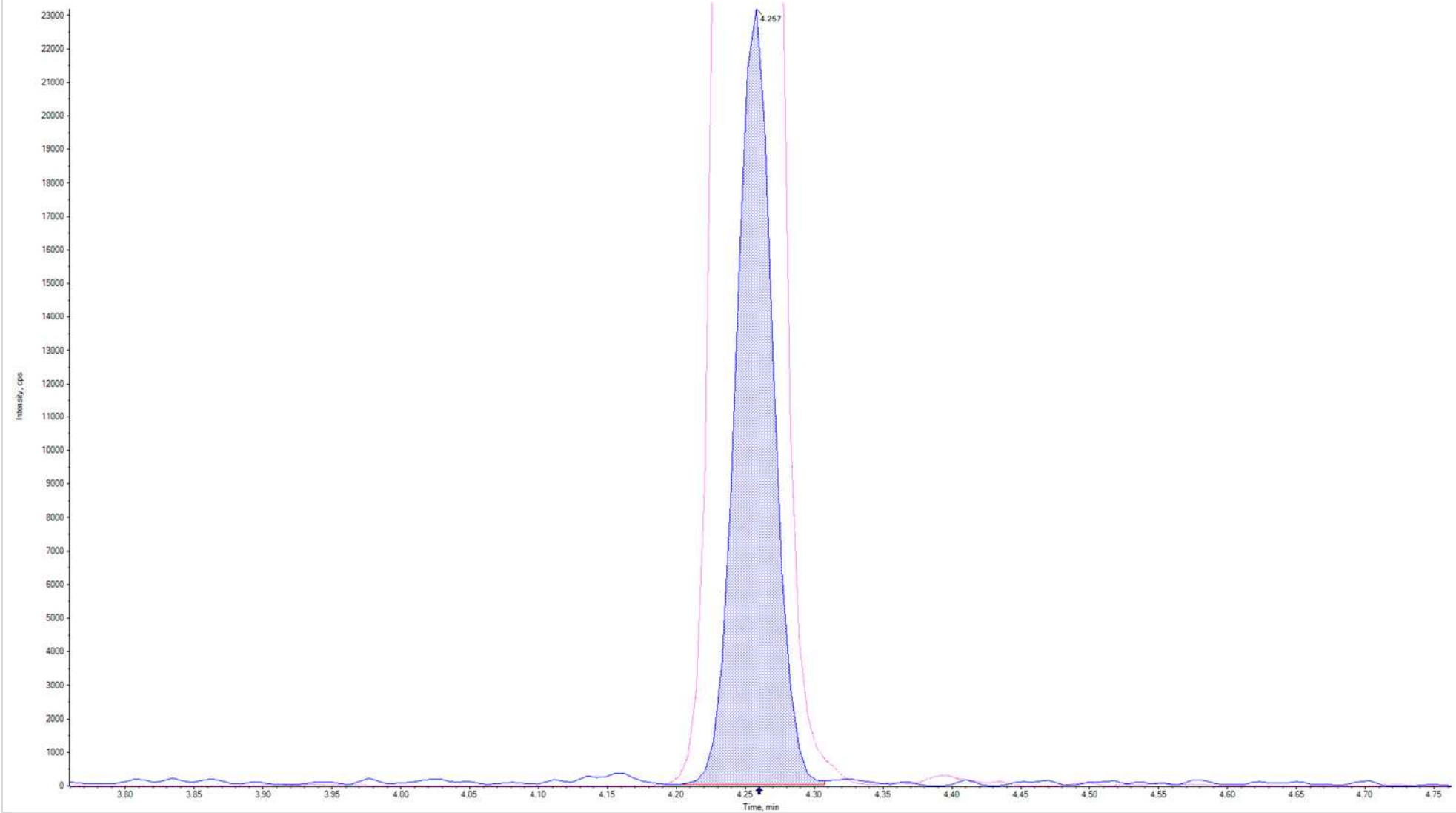
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PFDA_2
Sample: IA1633STD-.2 S/N:69.8 Points Across peak:28



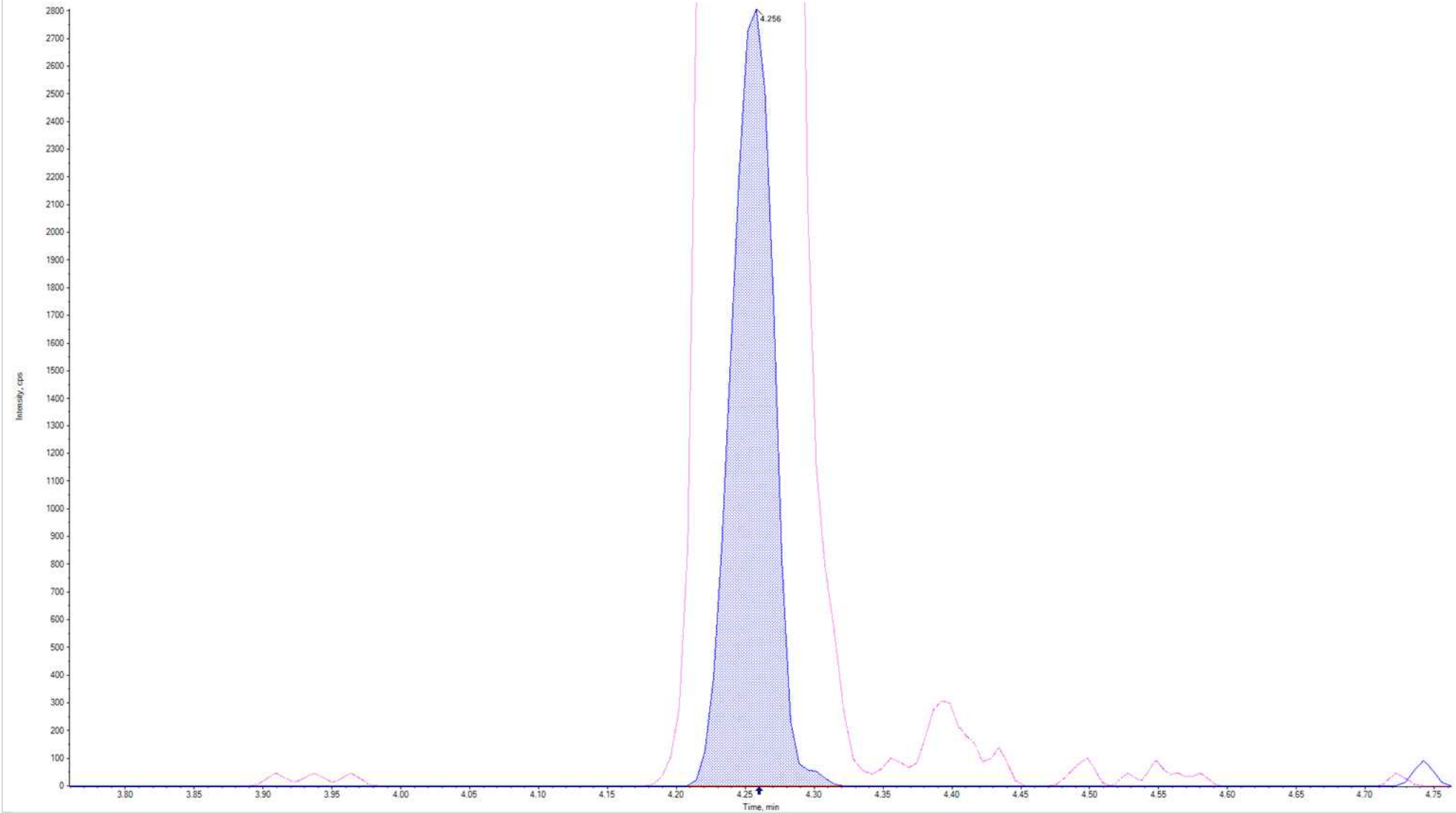
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PFUnA
Sample: IA1633STD-.2 S/N:522.1 Points Across peak:19



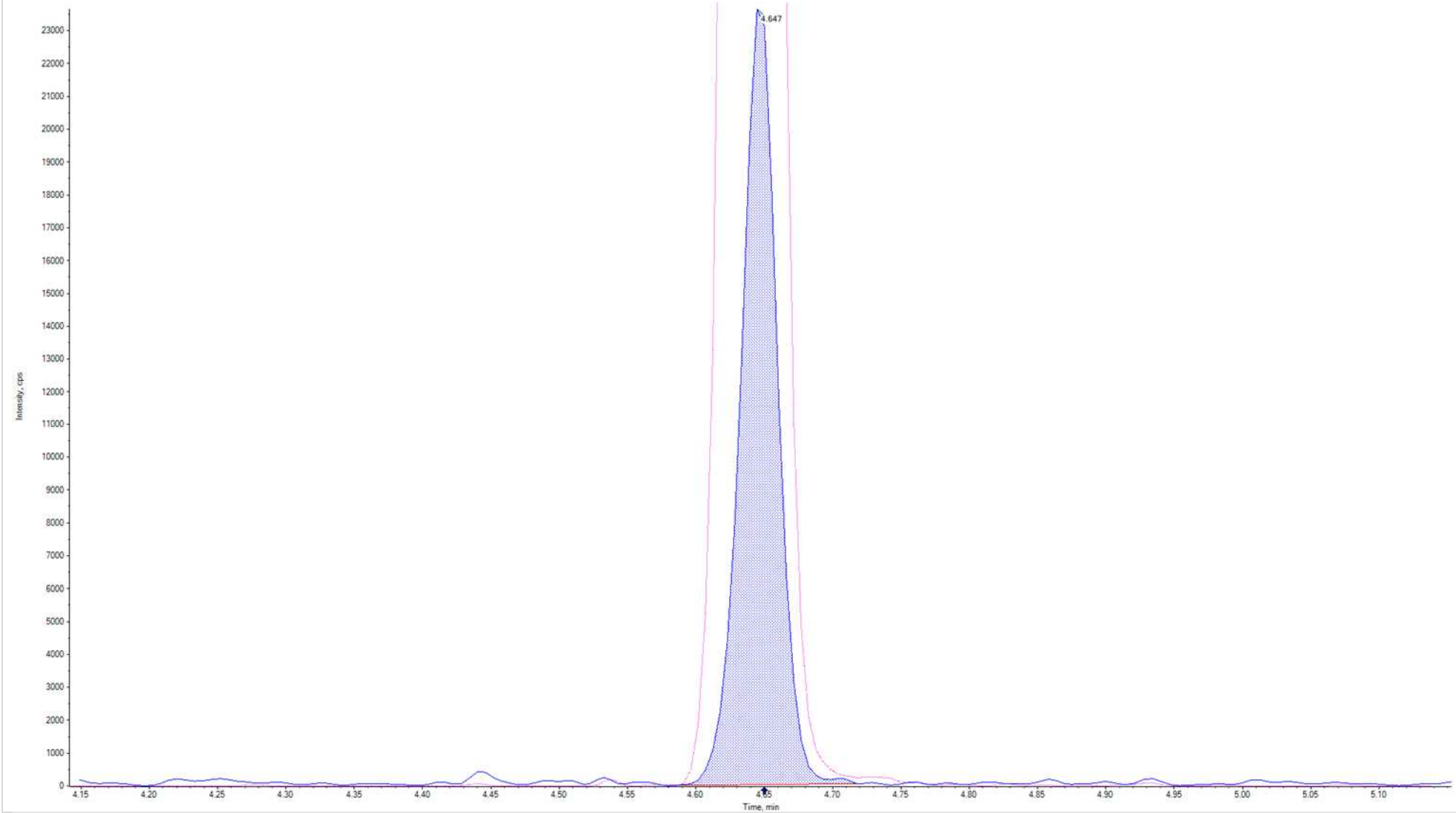
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PFUnA_2
Sample: IA1633STD-.2 S/N:63.3 Points Across peak:29



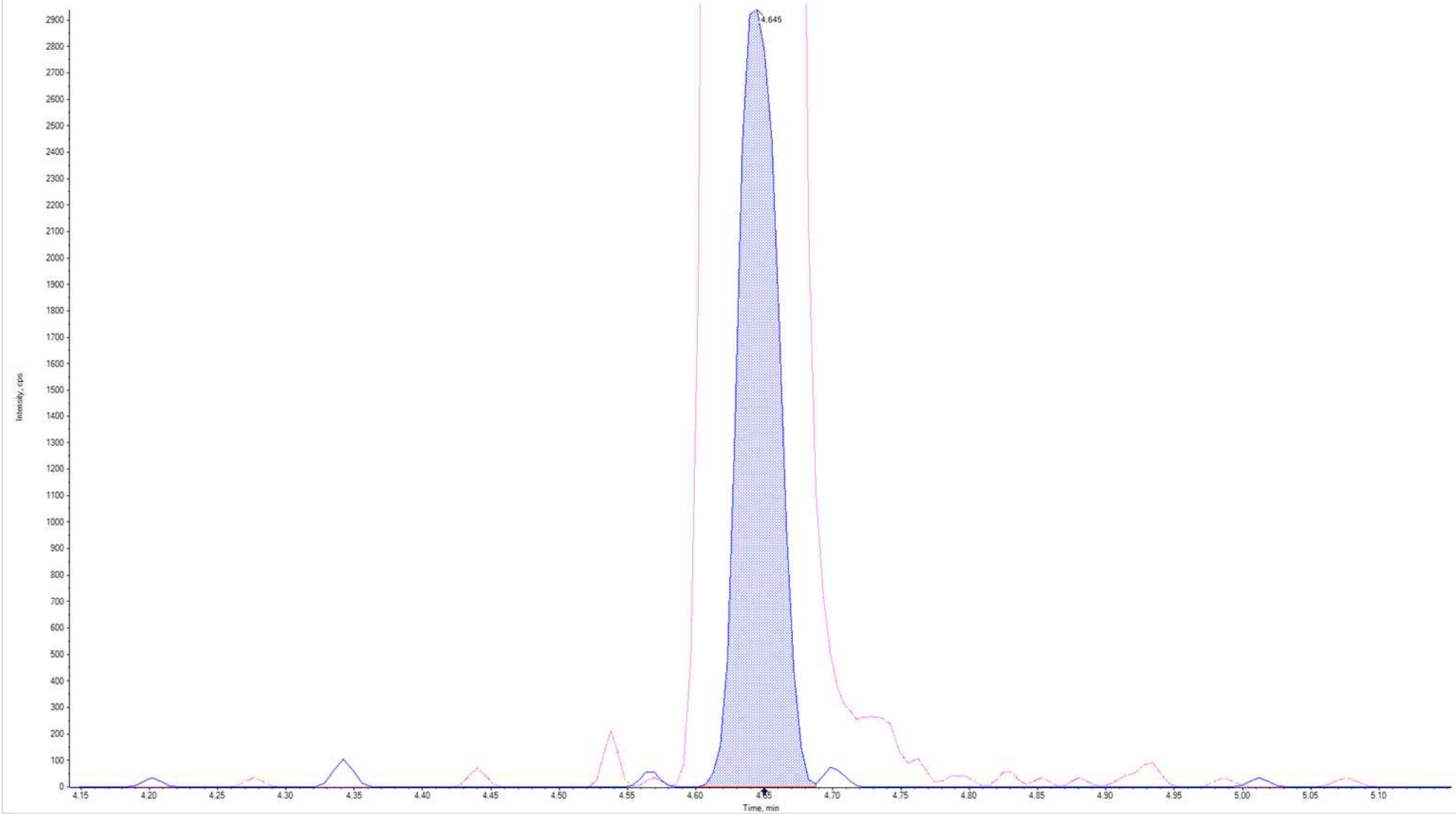
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Alpha Analytical LLC
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PFDoA
Sample: IA1633STD-.2 S/N:651.2 Points Across peak:27



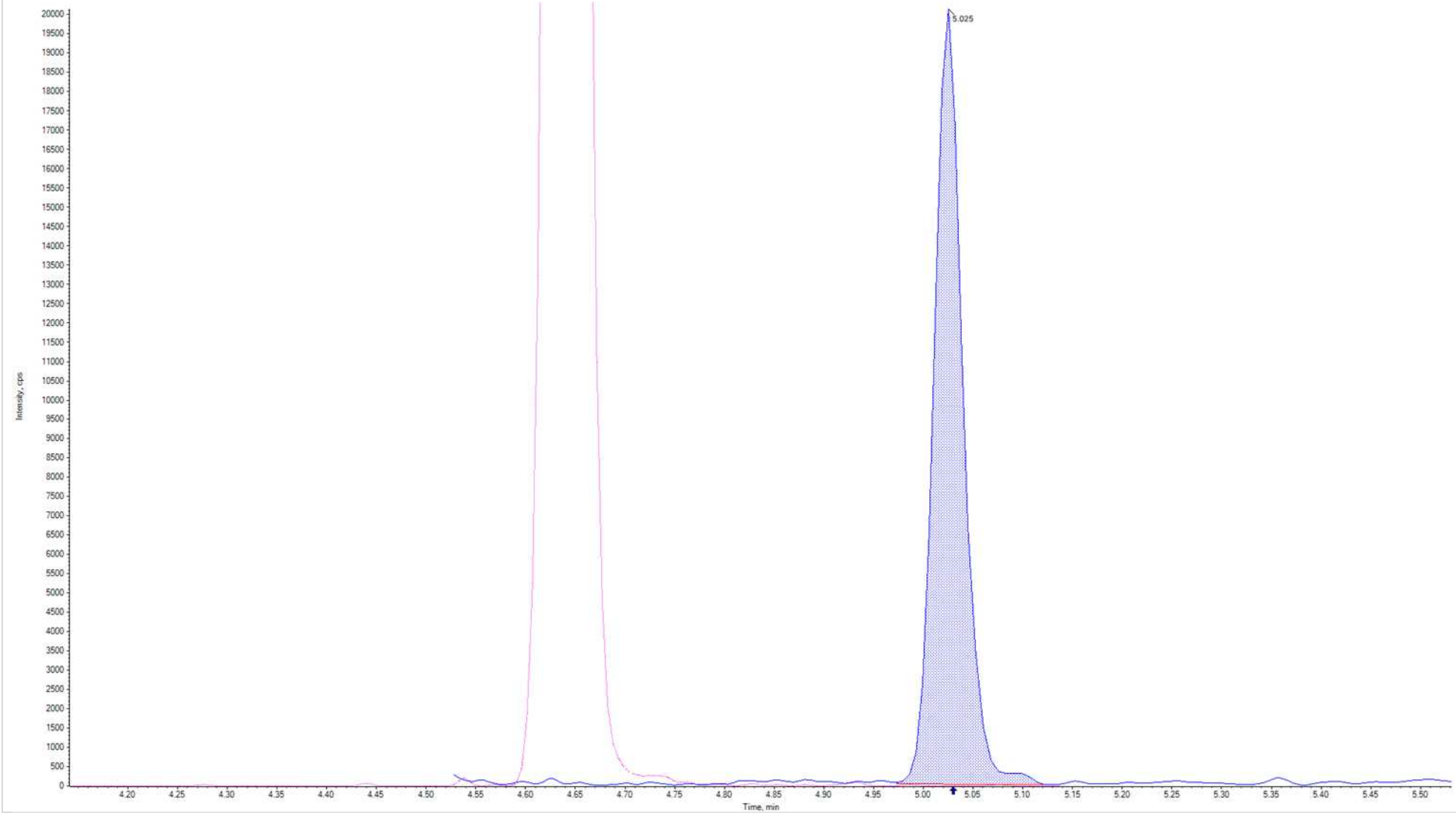
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PFDoA_2
Sample: IA1633STD-.2 S/N:81.0 Points Across peak:19



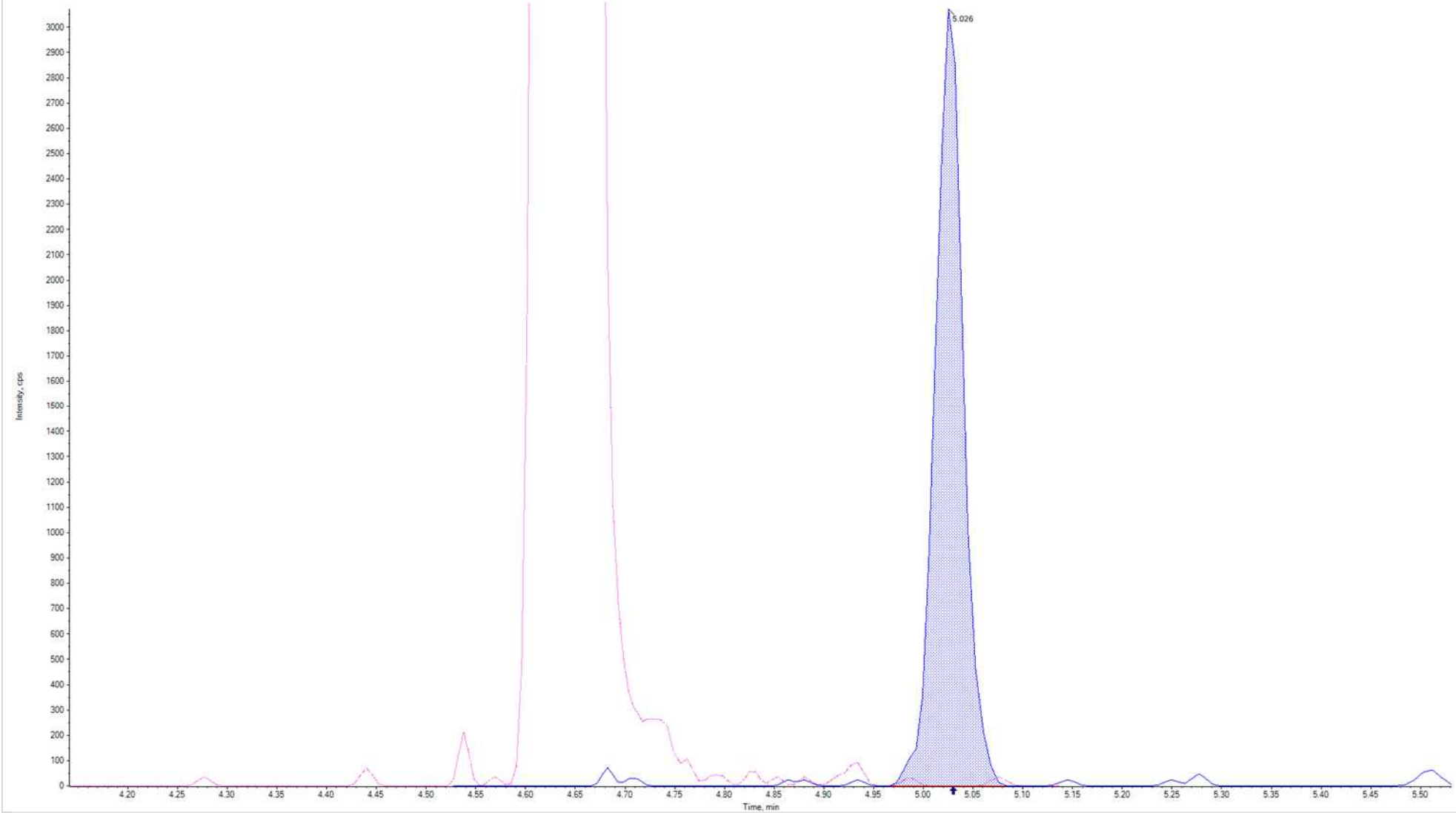
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PFTrDA
Sample: IA1633STD-.2 S/N:805.7 Points Across peak:23



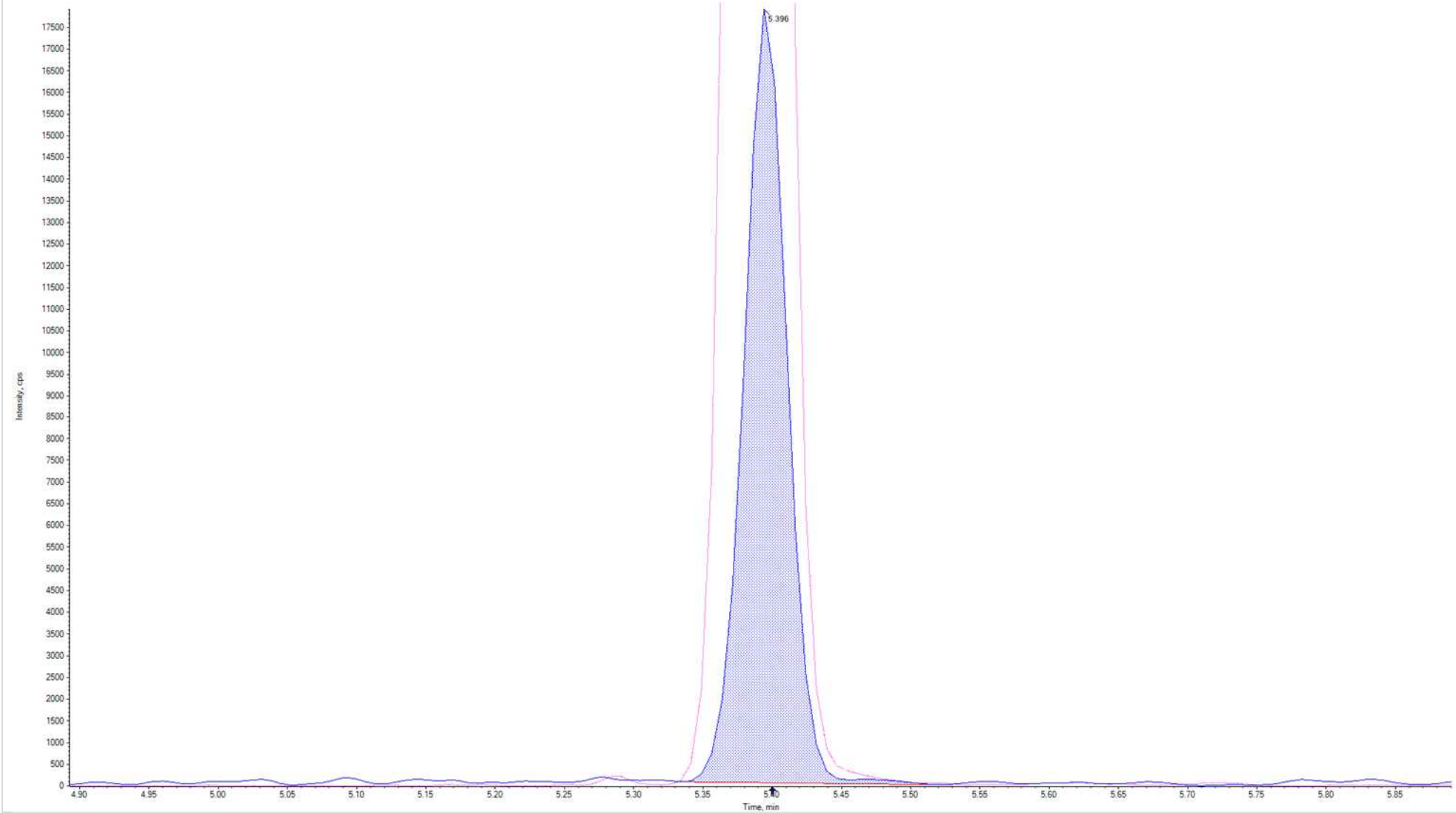
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PFTrDA_2
Sample: IA1633STD-.2 S/N:123.2 Points Across peak:22



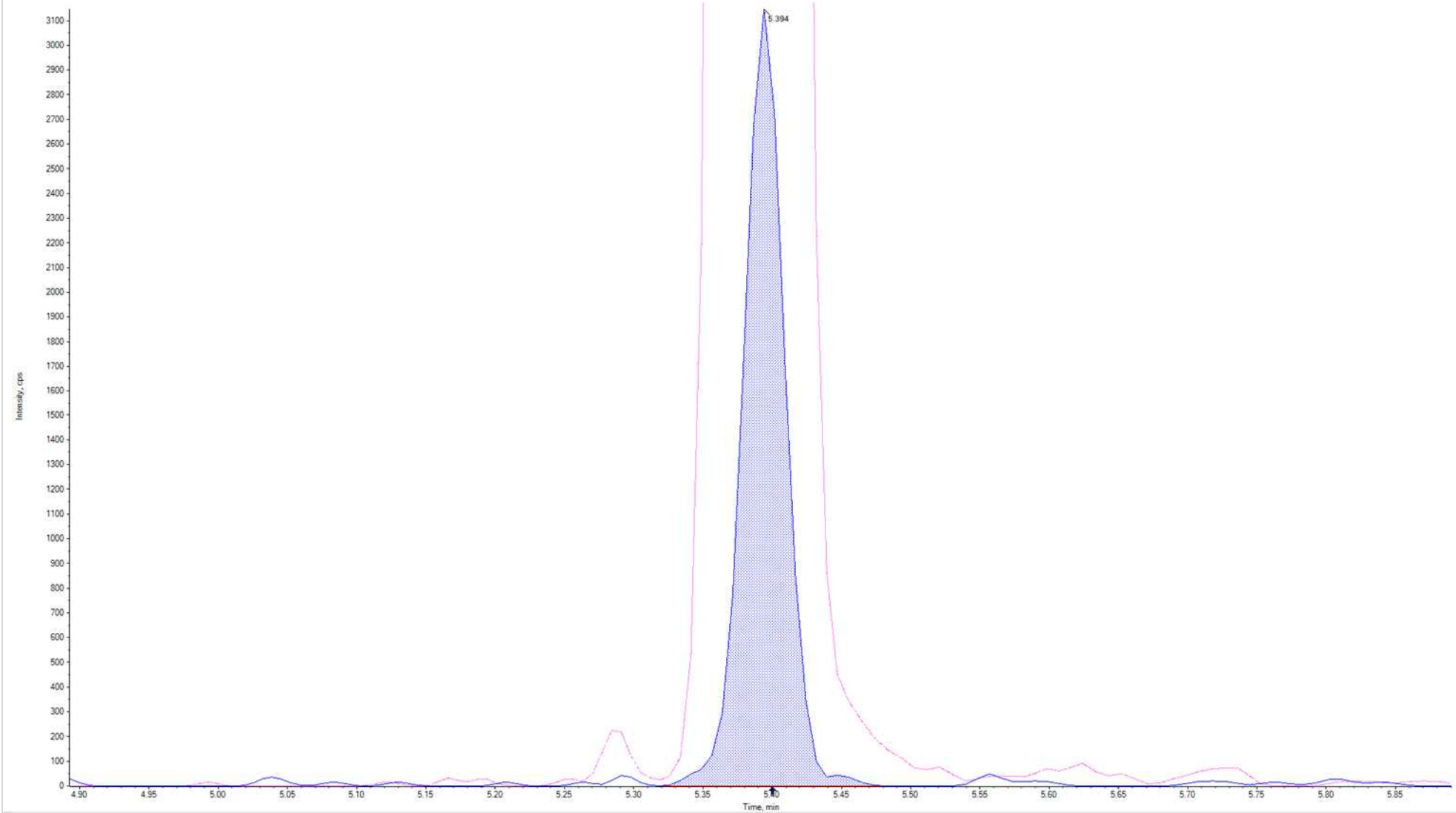
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PFTeDA
Sample: IA1633STD-.2 S/N:1118.4 Points Across peak:24



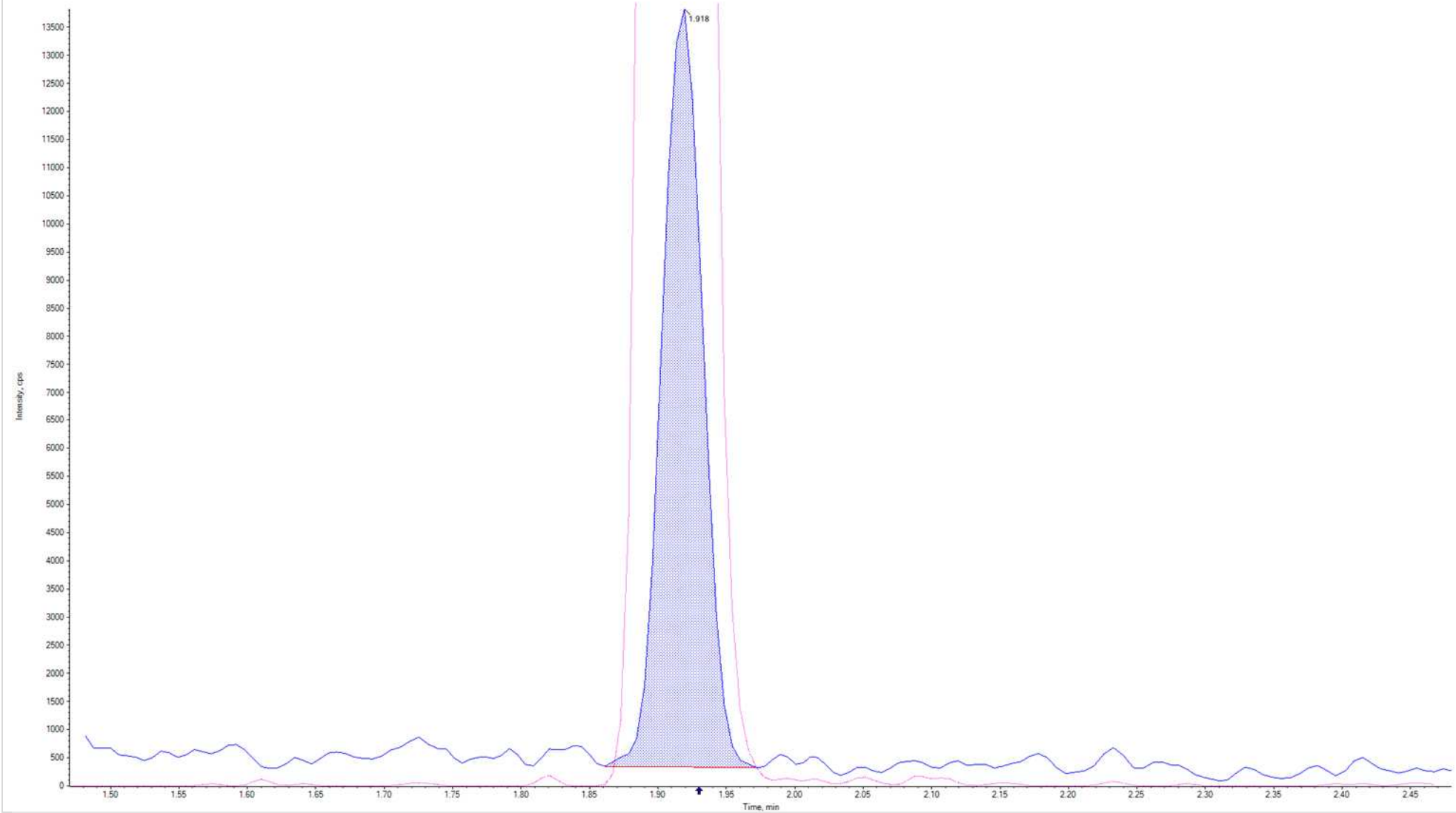
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Alpha Analytical LLC
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PFTeDA_2
Sample: IA1633STD-.2 S/N:197.2 Points Across peak:23



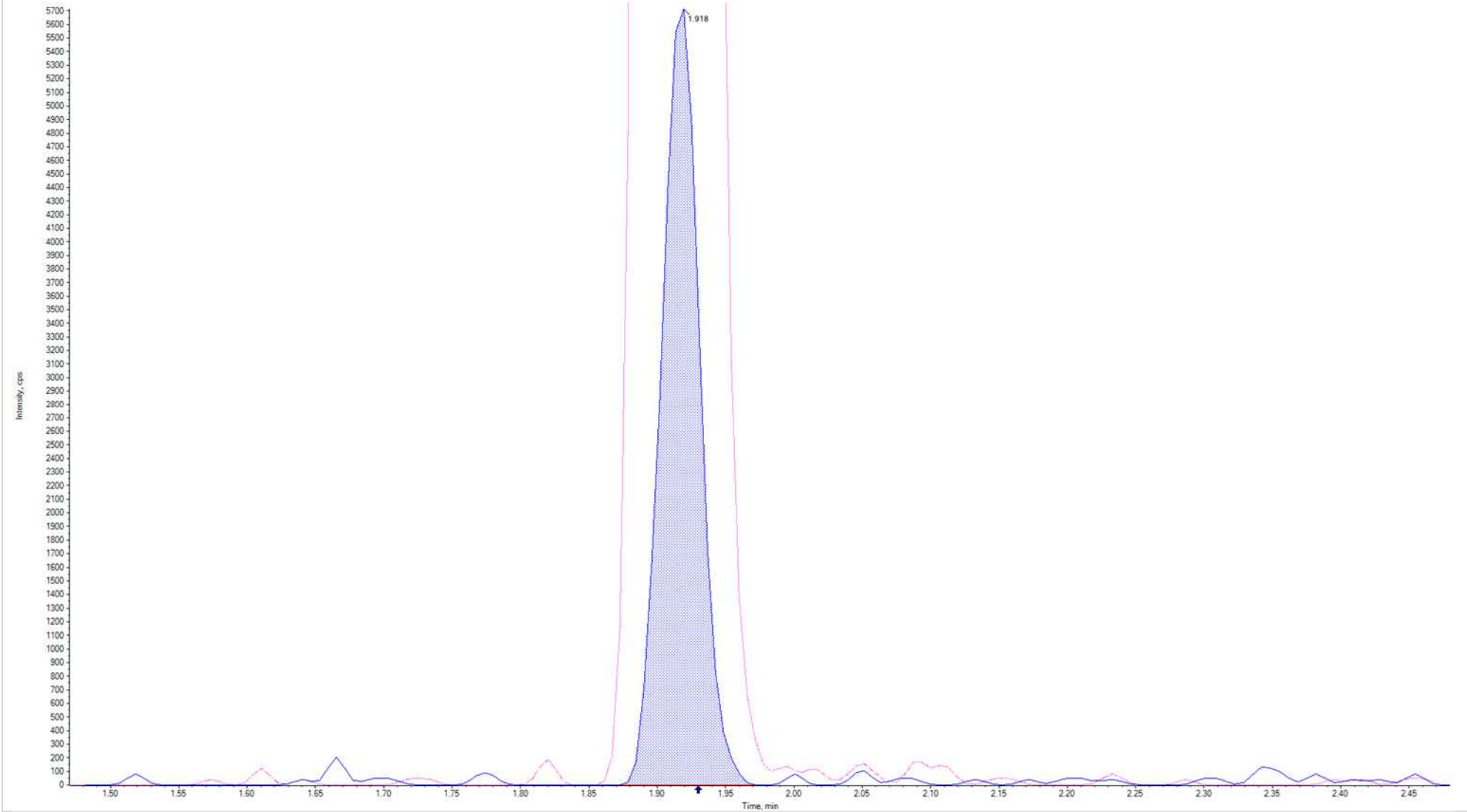
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PFBS
Sample: IA1633STD-.2 S/N:338.0 Points Across peak:20



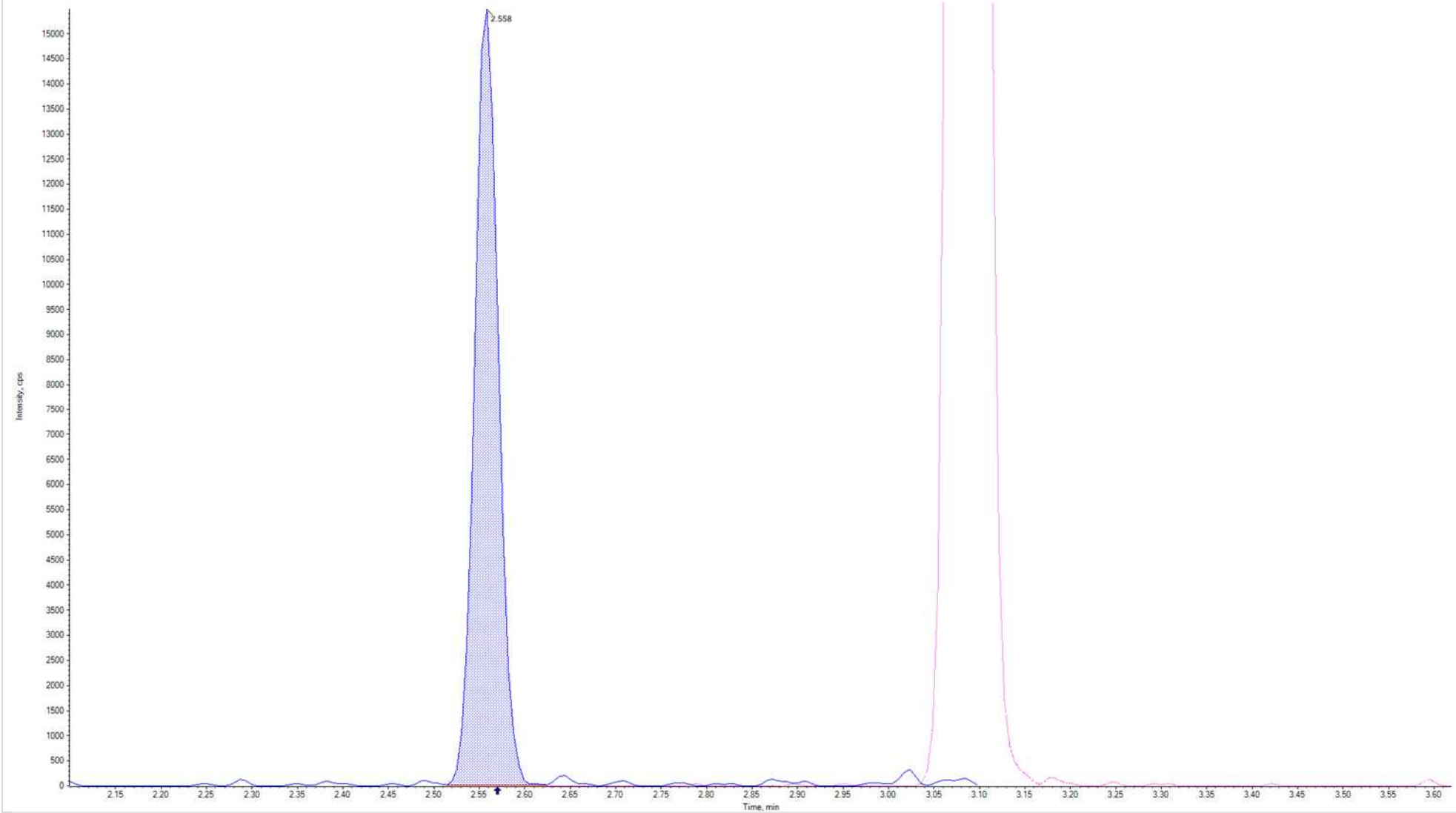
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Alpha Analytical LLC
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PFBS_2
Sample: IA1633STD-.2 S/N:143.2 Points Across peak:21



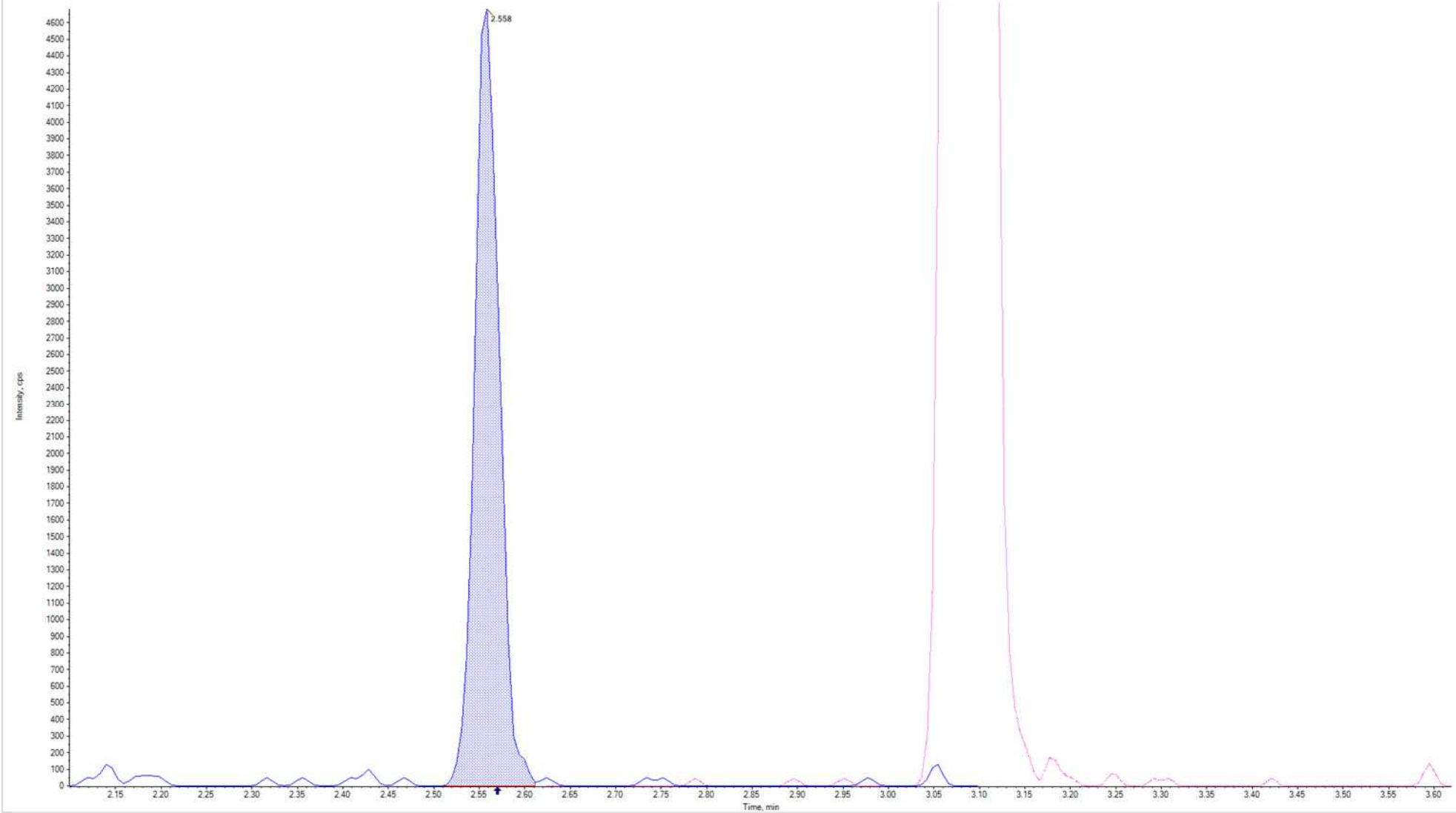
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Alpha Analytical LLC
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PFPeS
Sample: IA1633STD-.2 S/N:310.2 Points Across peak:20



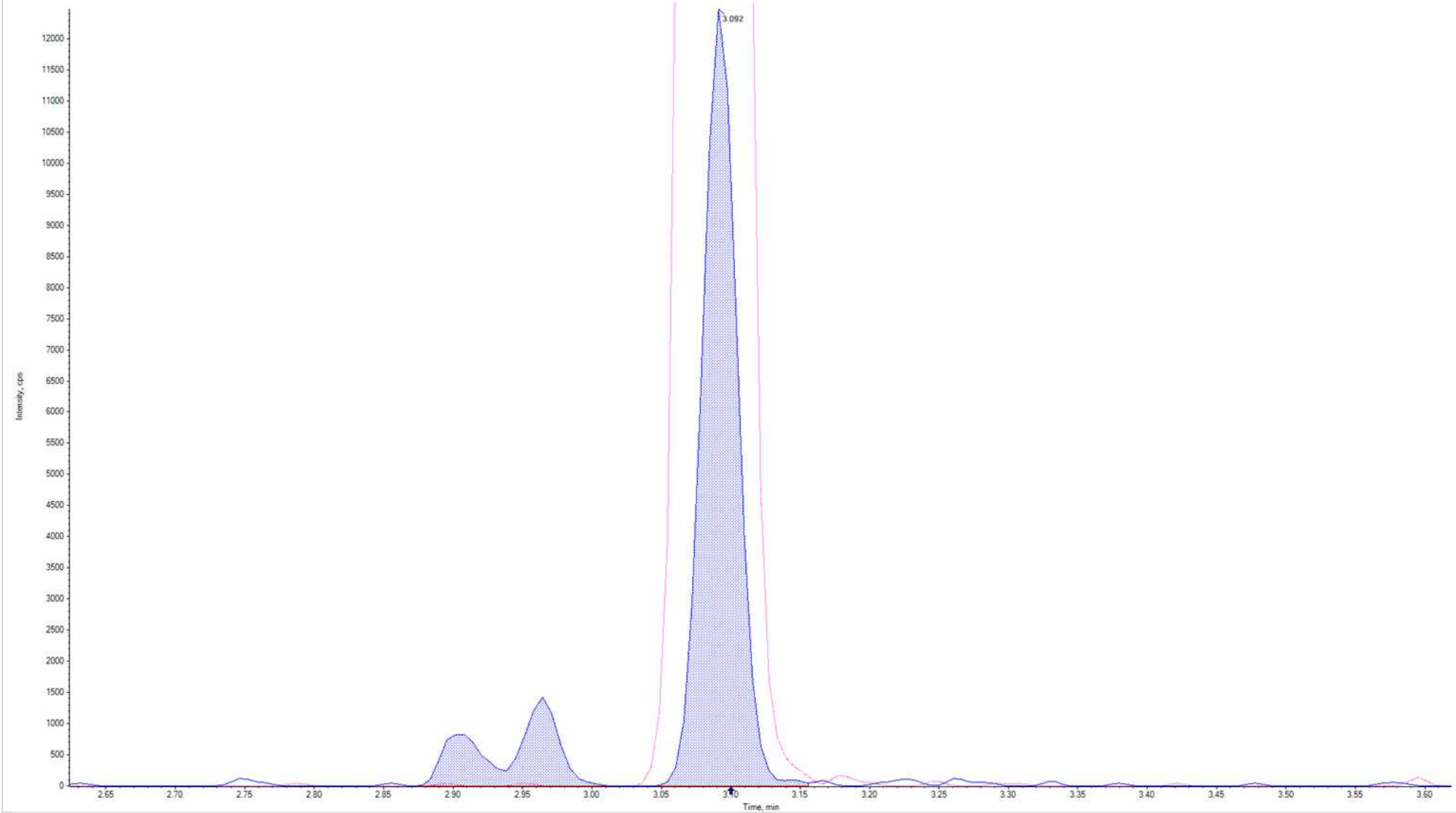
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PFPeS_2
Sample: IA1633STD-.2 S/N:93.9 Points Across peak:22



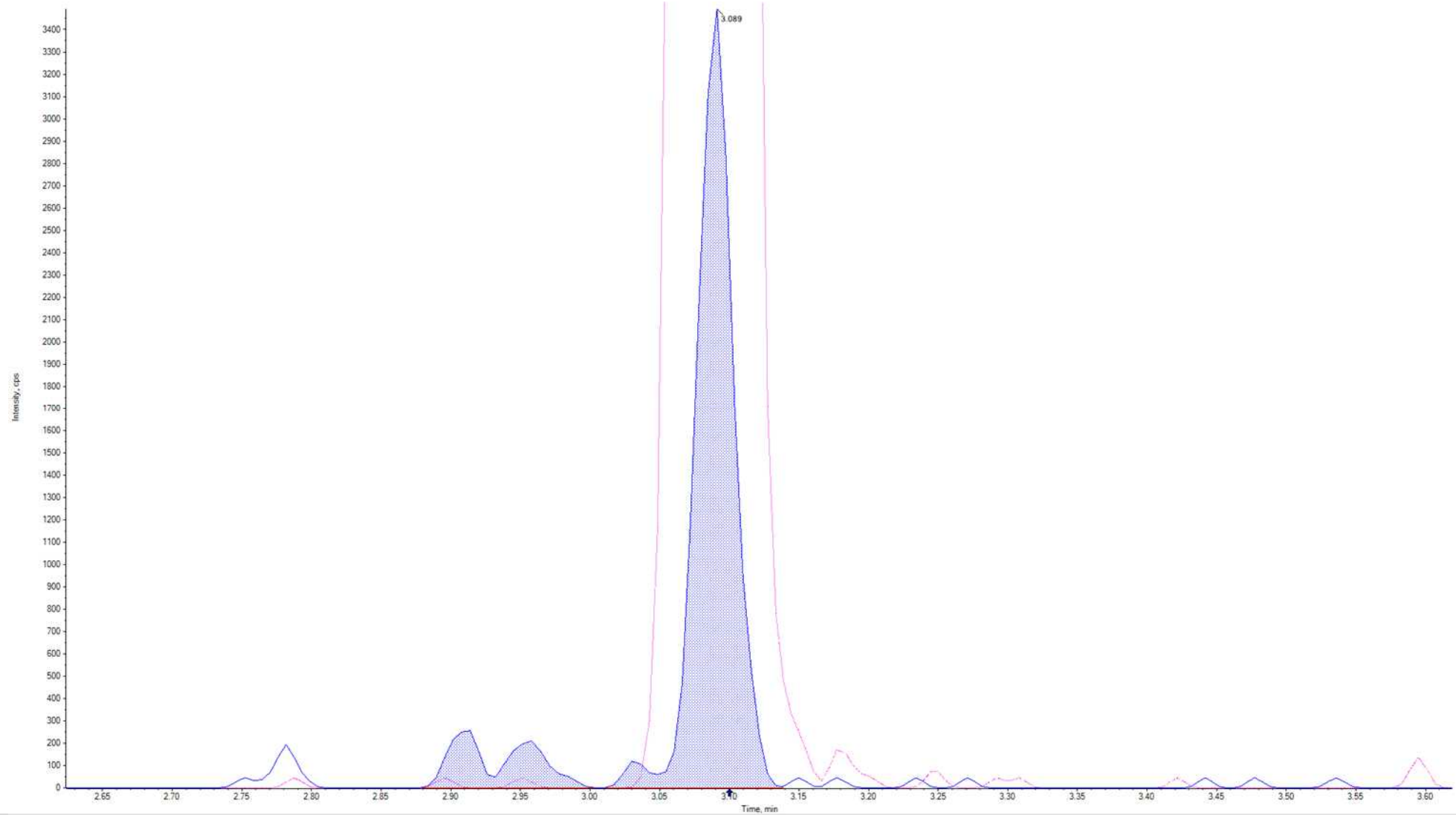
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Alpha Analytical LLC
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PFHxS
Sample: IA1633STD-.2 S/N:281.4 Points Across peak:48



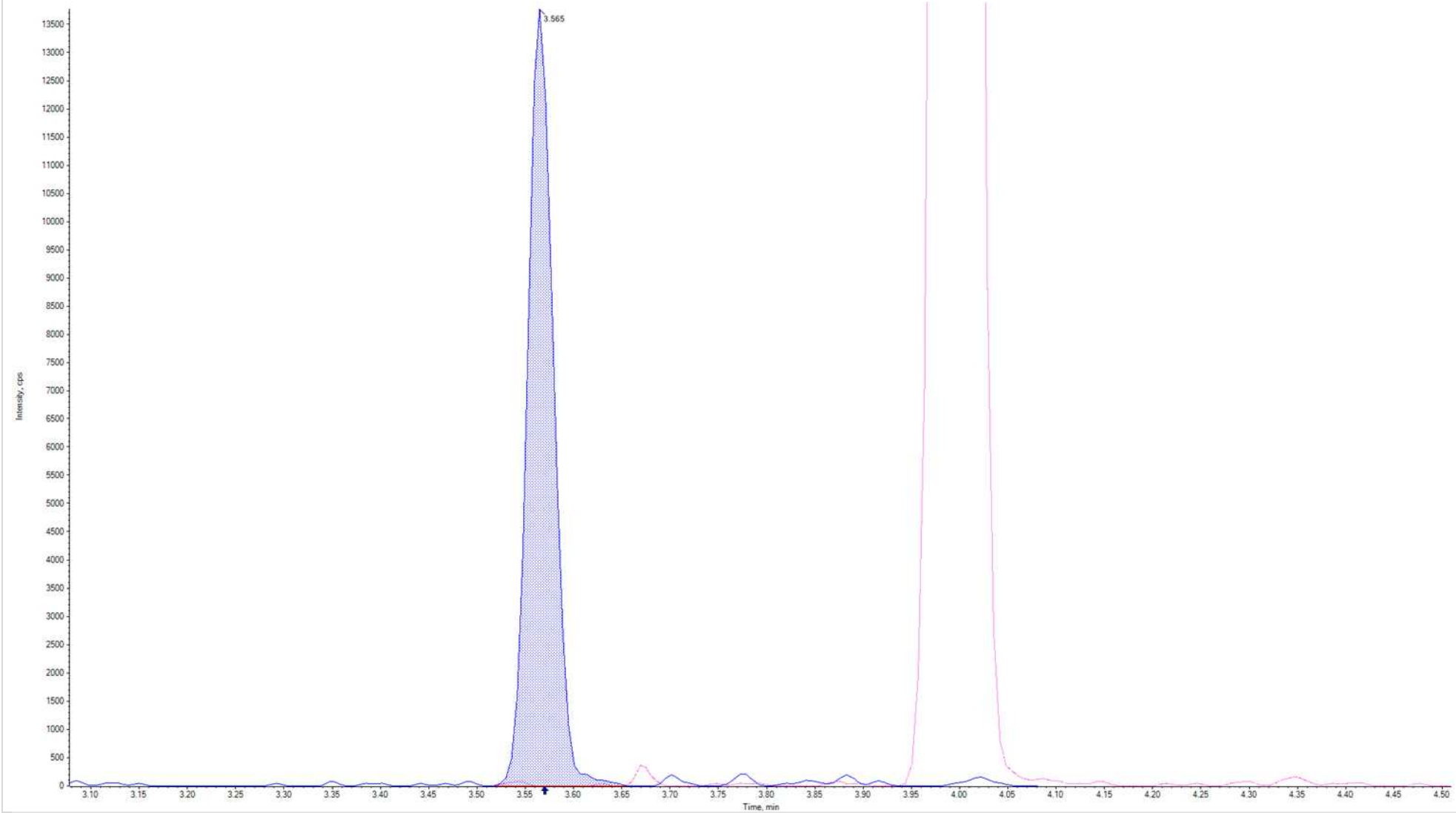
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

PFHxS_2
Sample: IA1633STD-.2 S/N:78.8 Points Across peak:43



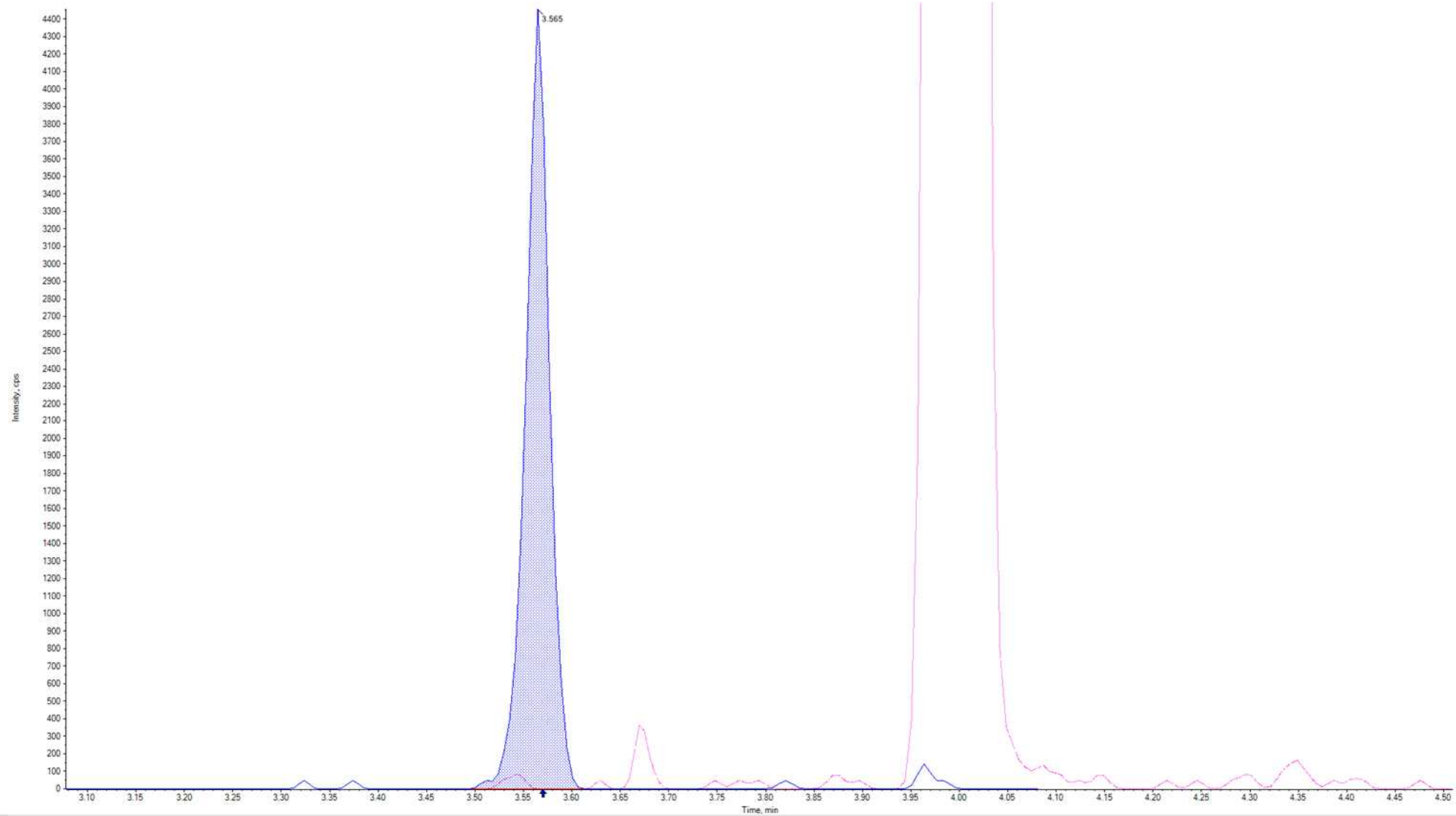
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PFHpS
Sample: IA1633STD-.2 S/N:276.1 Points Across peak:28



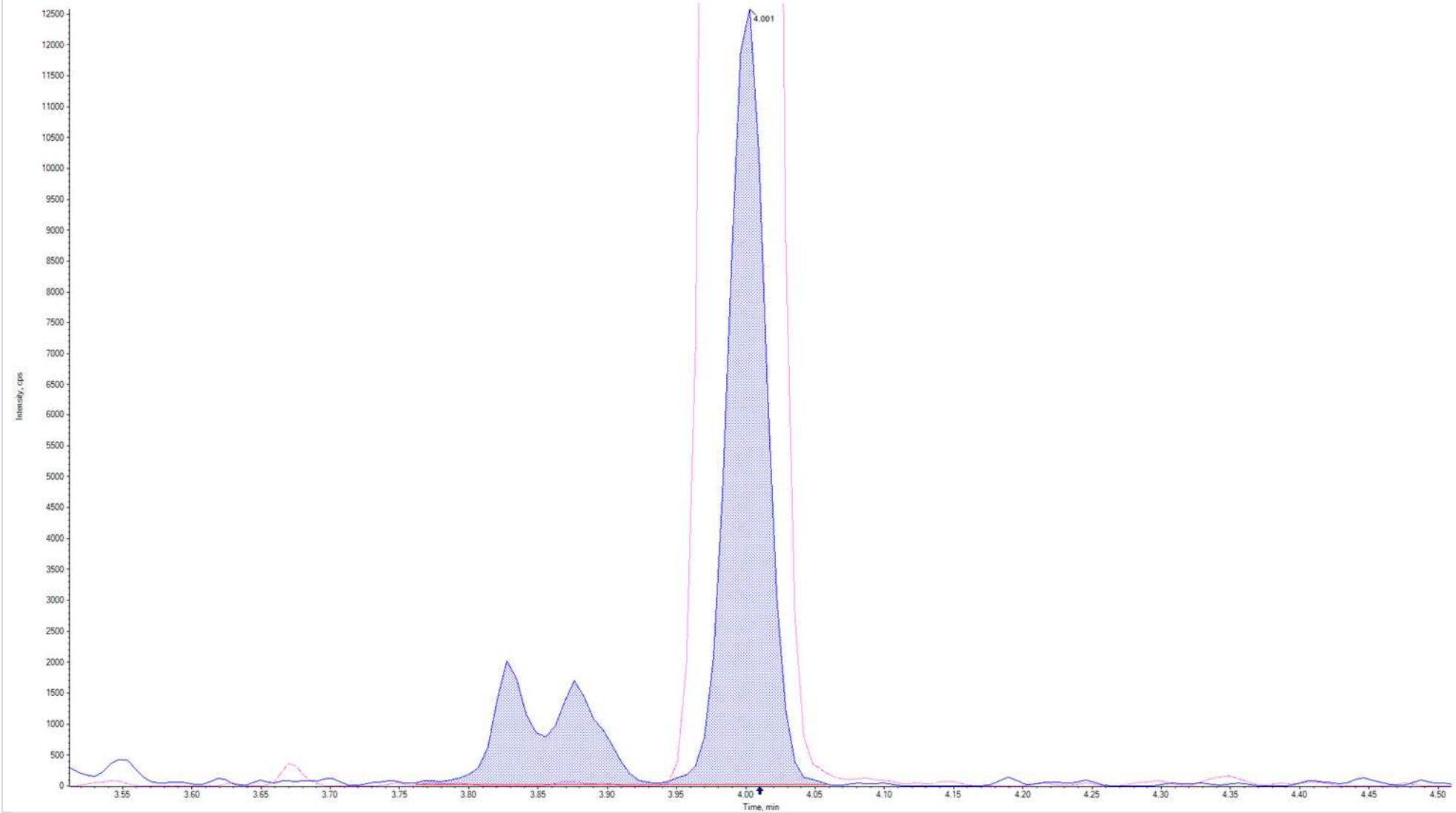
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFHpS_2
Sample: IA1633STD-.2 S/N:89.4 Points Across peak:31



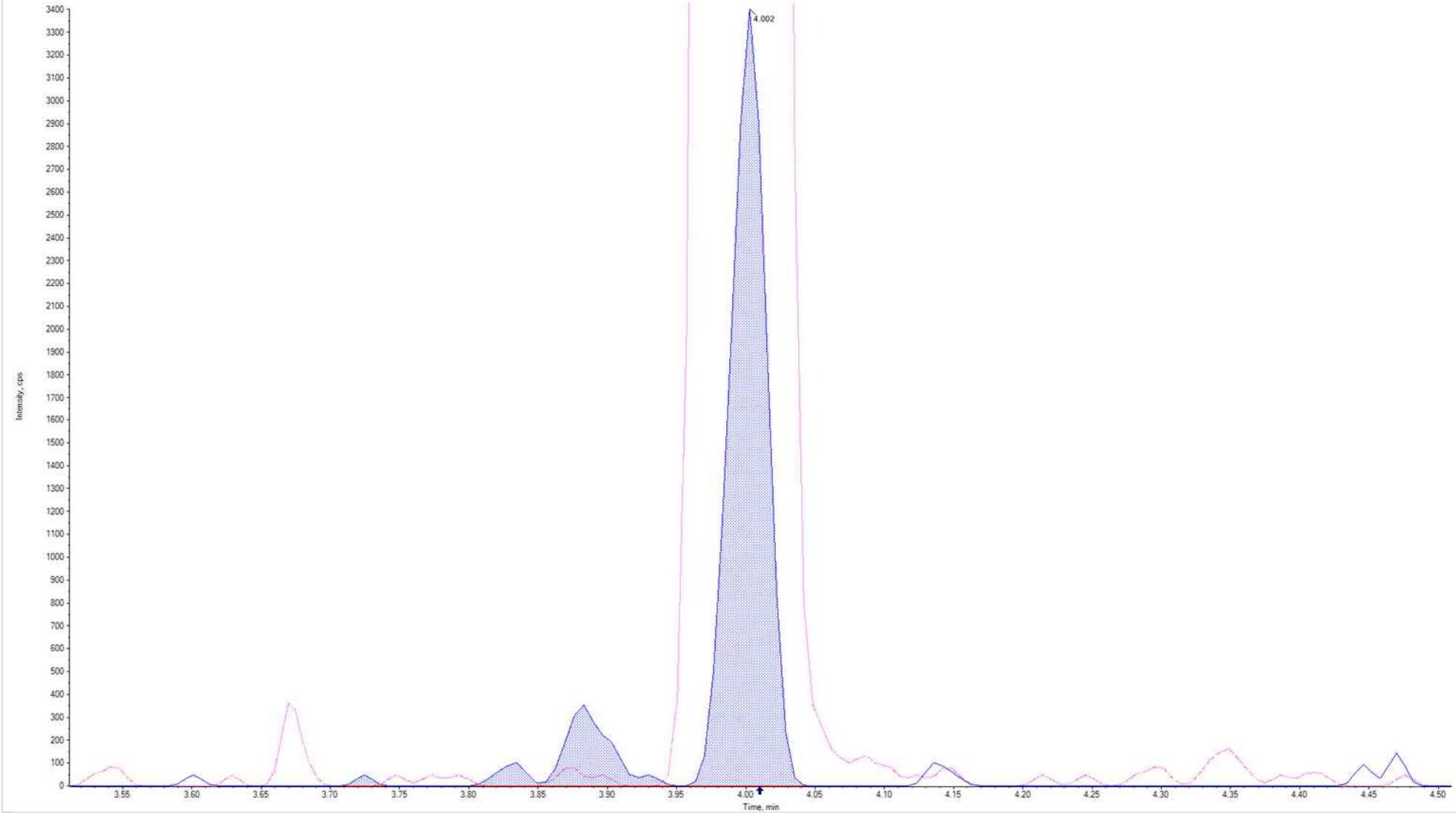
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOS
Sample: IA1633STD-.2 S/N:251.4 Points Across peak:46



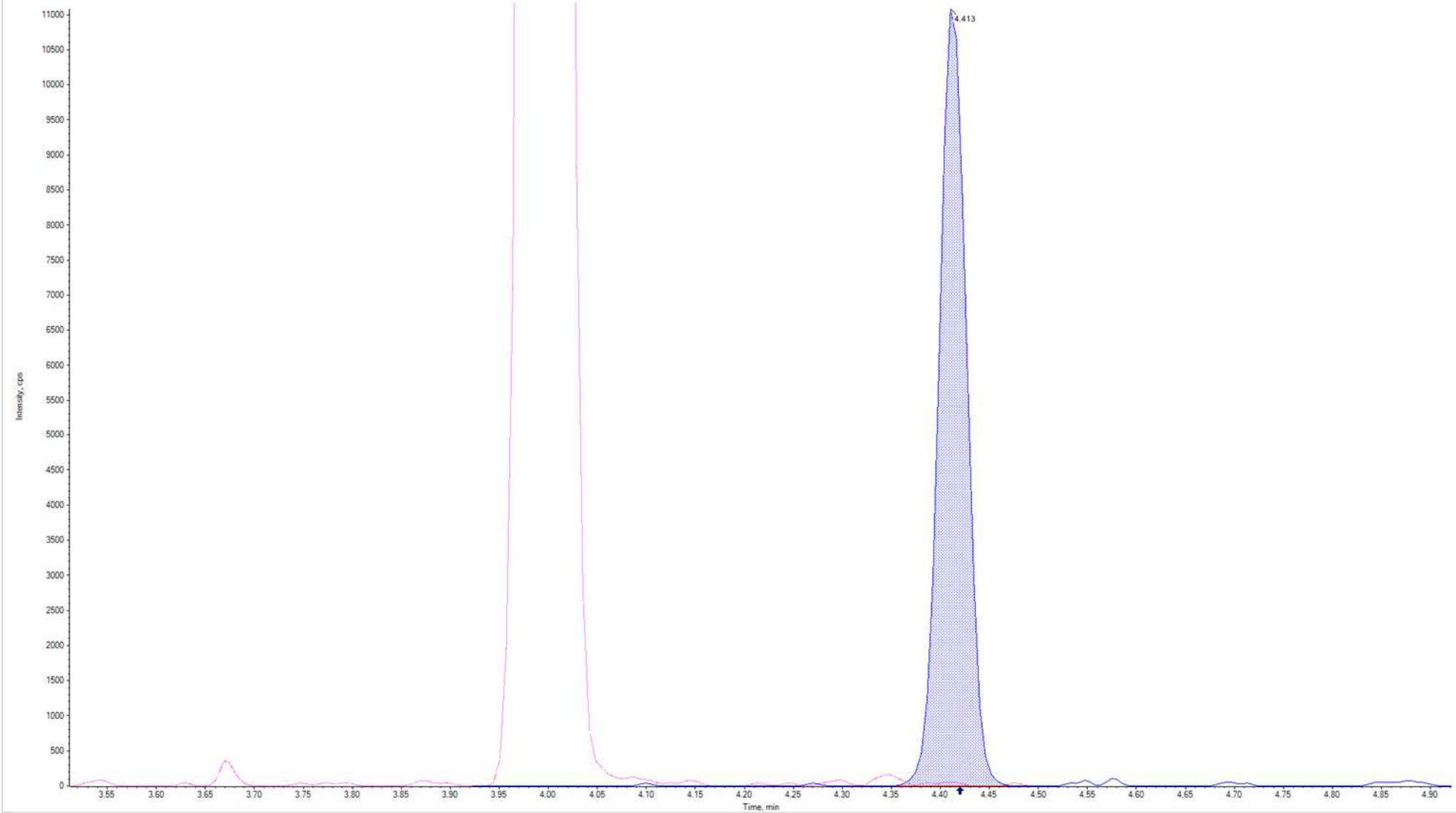
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOS_2
Sample: IA1633STD-.2 S/N:68.2 Points Across peak:55



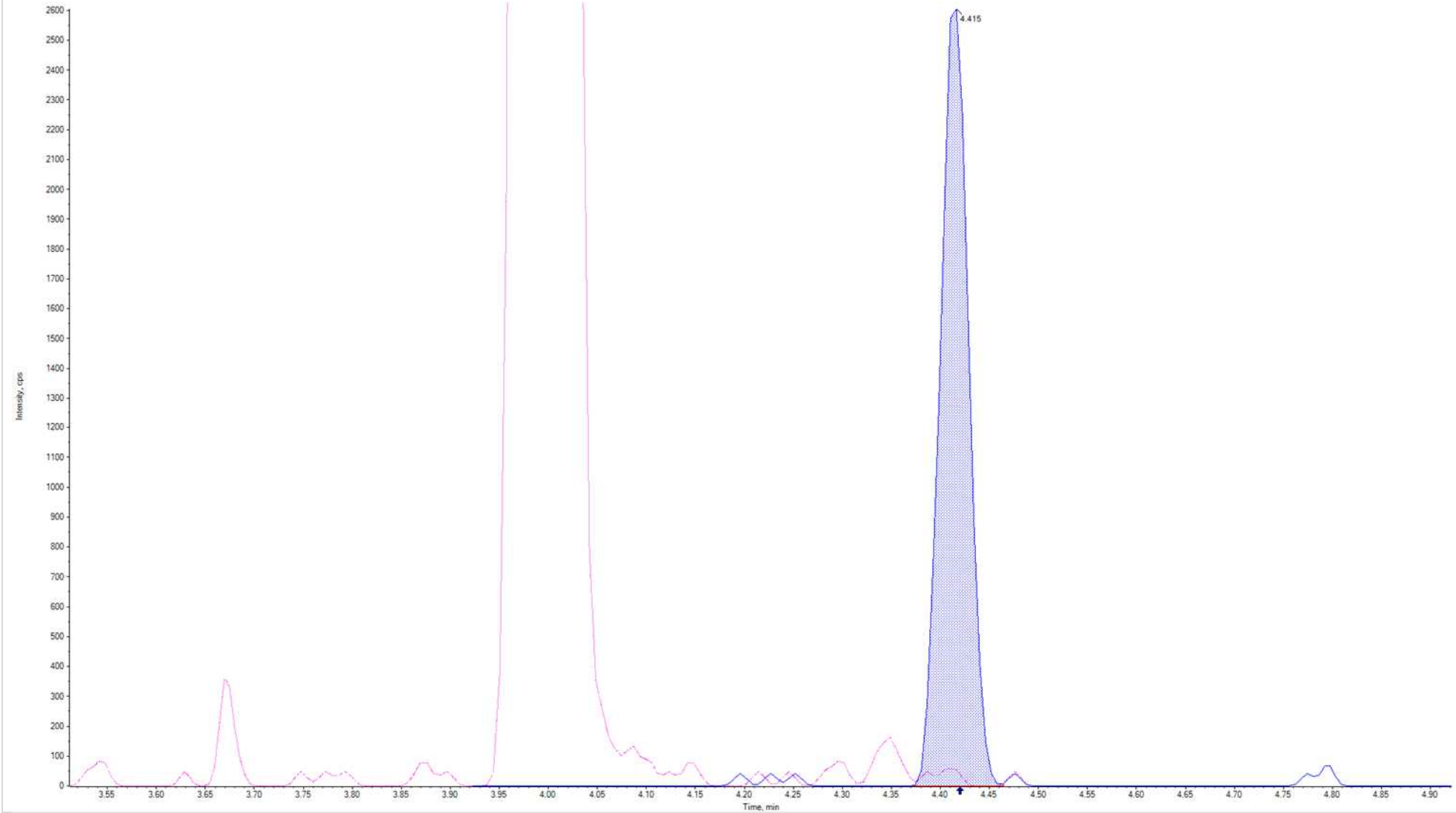
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS
Sample: IA1633STD-.2 S/N:277.7 Points Across peak:30



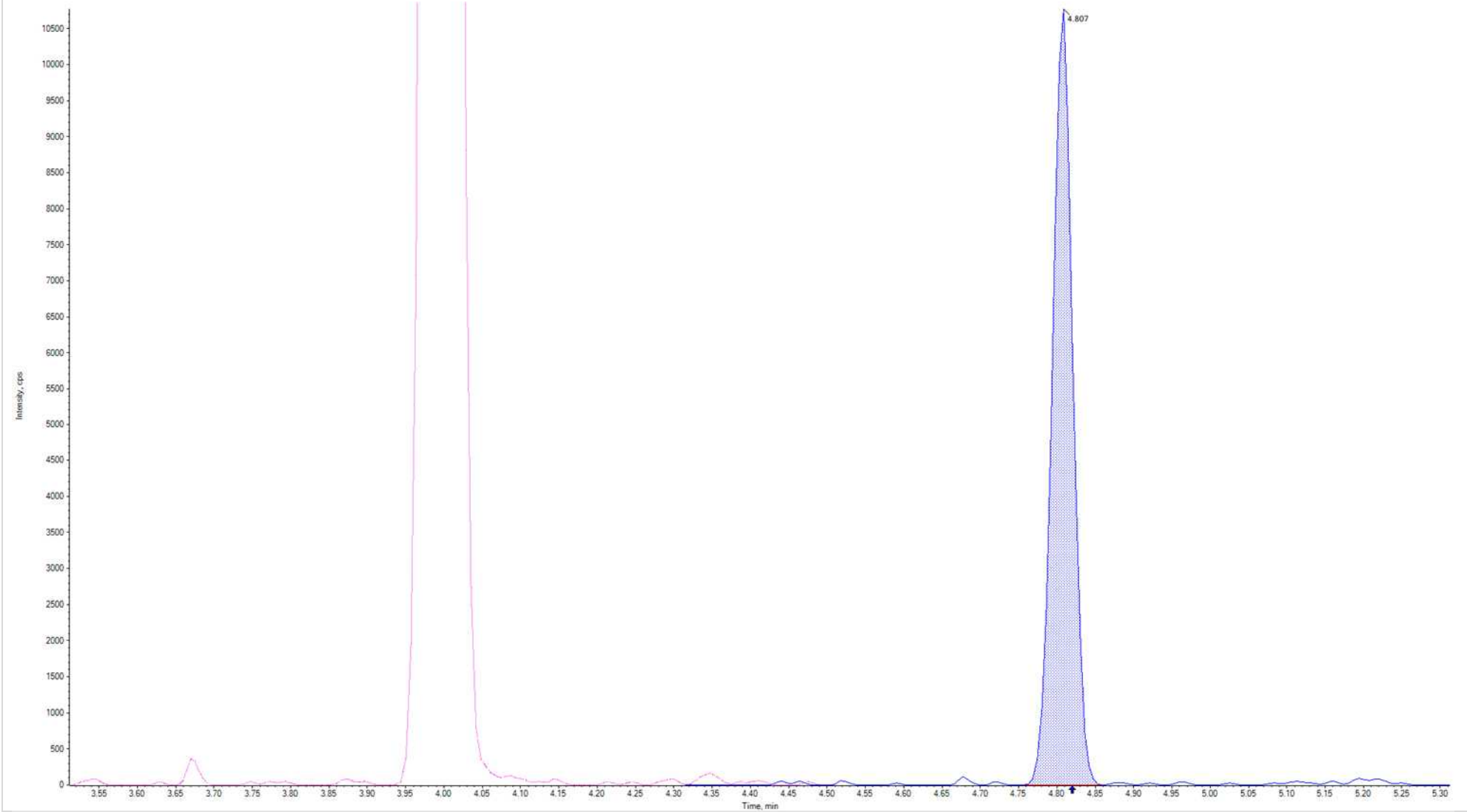
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS_2
Sample: IA1633STD-.2 S/N:65.3 Points Across peak:21



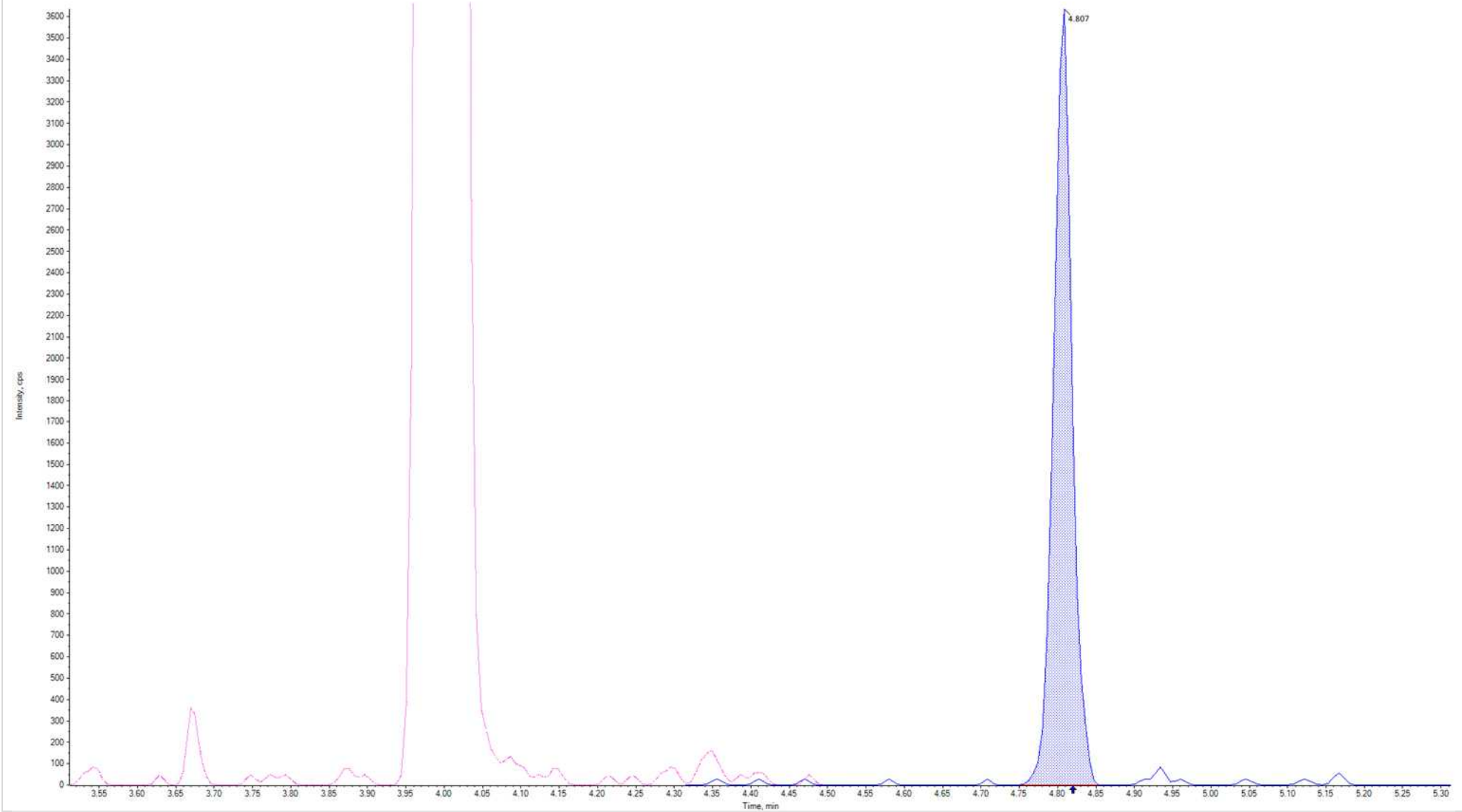
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDS
Sample: IA1633STD-.2 S/N:378.0 Points Across peak:20



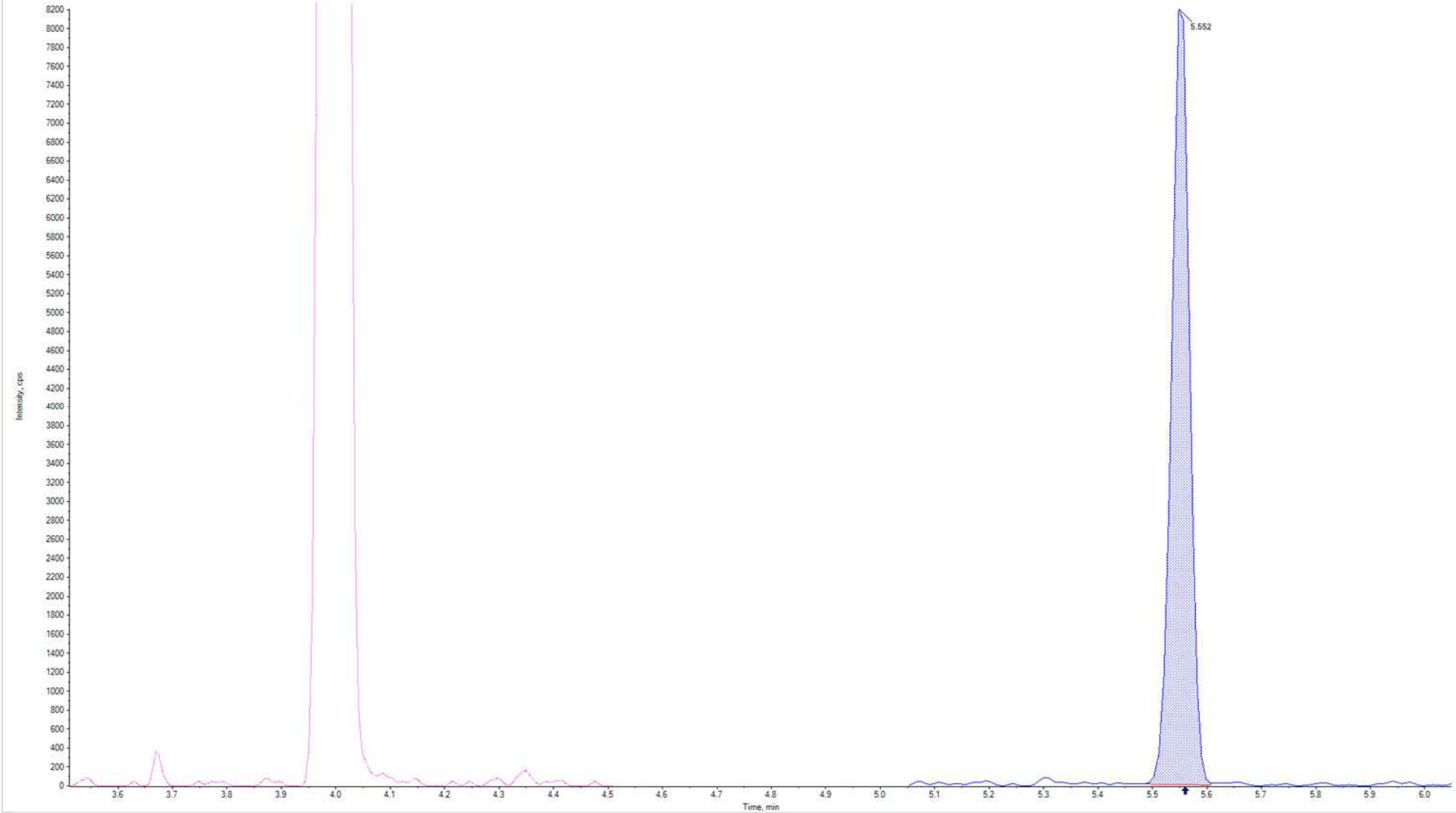
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDS_2
Sample: IA1633STD-.2 S/N:127.6 Points Across peak:24



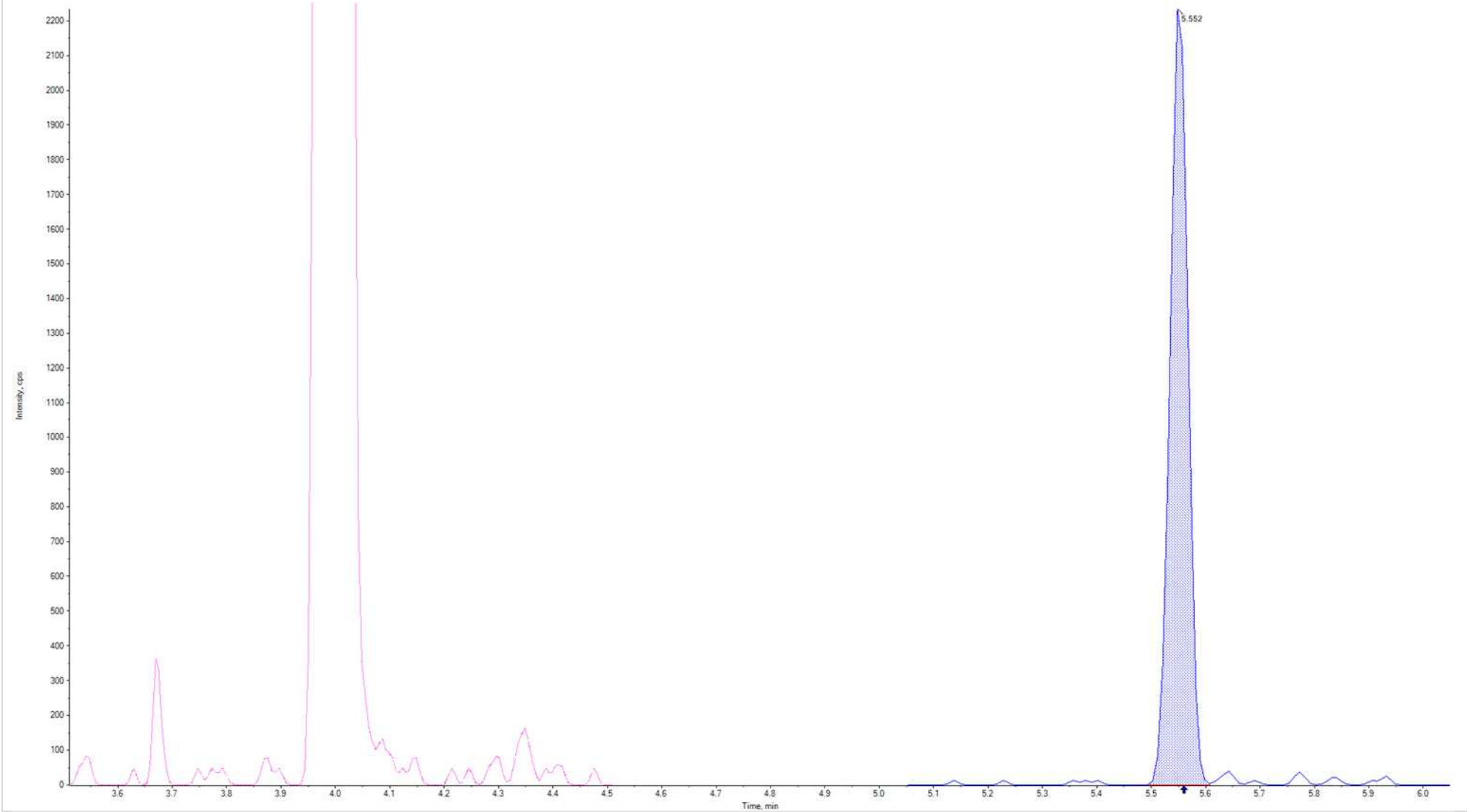
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
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Generated: 3/3/2025 3:16:24 PM

PFDoS
Sample: IA1633STD-.2 S/N:636.5 Points Across peak:15



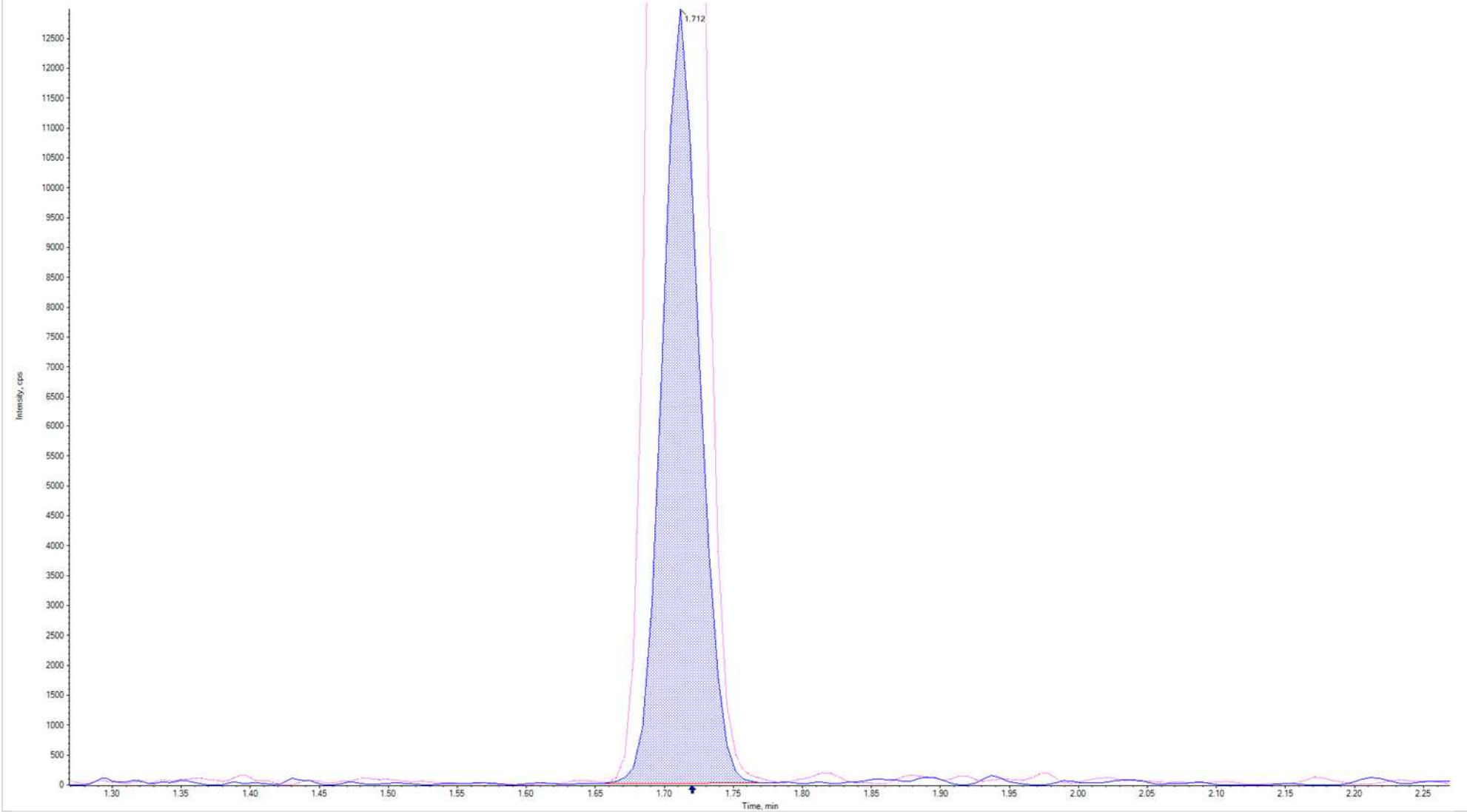
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDoS_2
Sample: IA1633STD-.2 S/N:173.6 Points Across peak:17



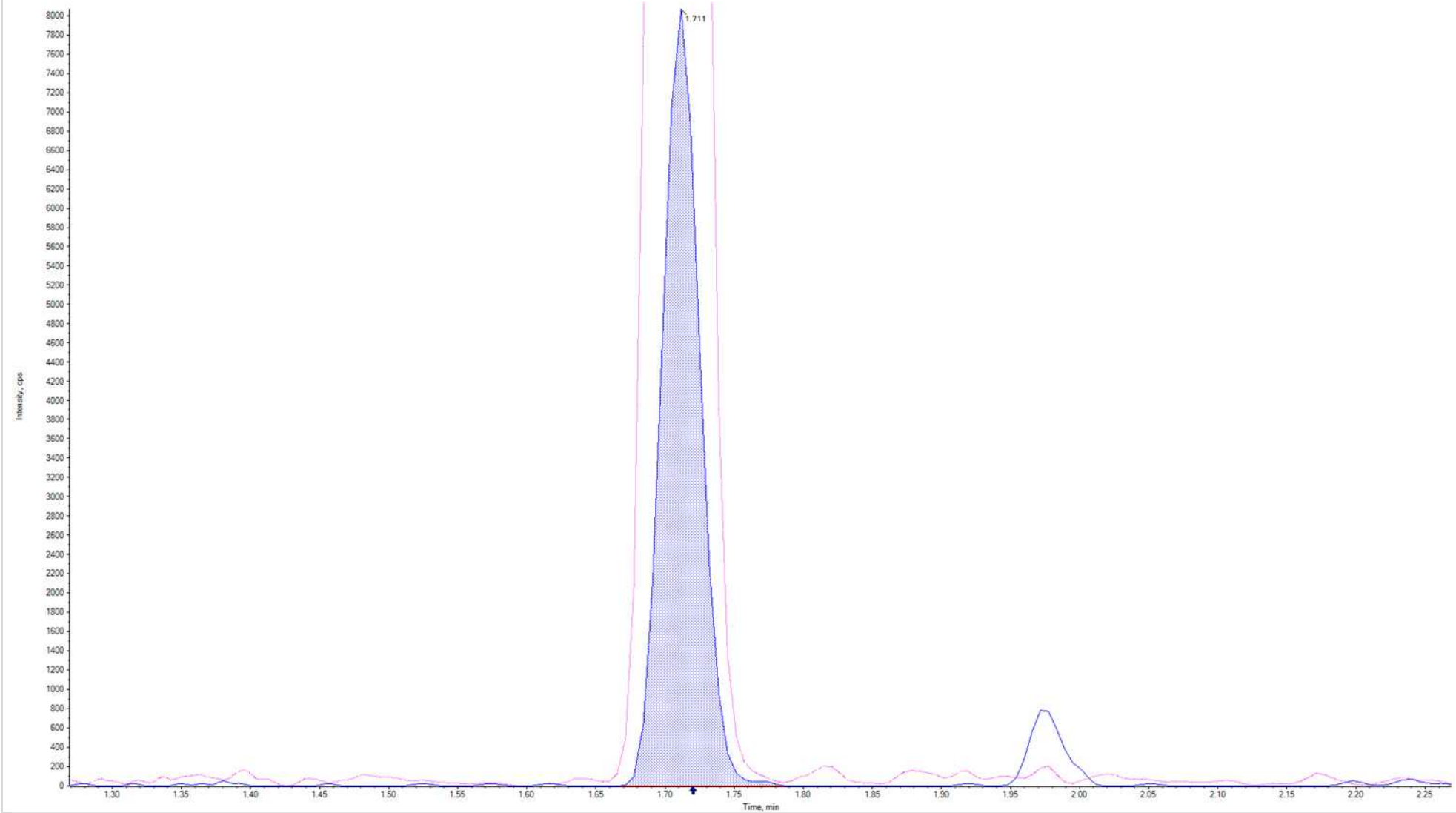
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

4:2FTS
Sample: IA1633STD-.2 S/N:487.4 Points Across peak:20



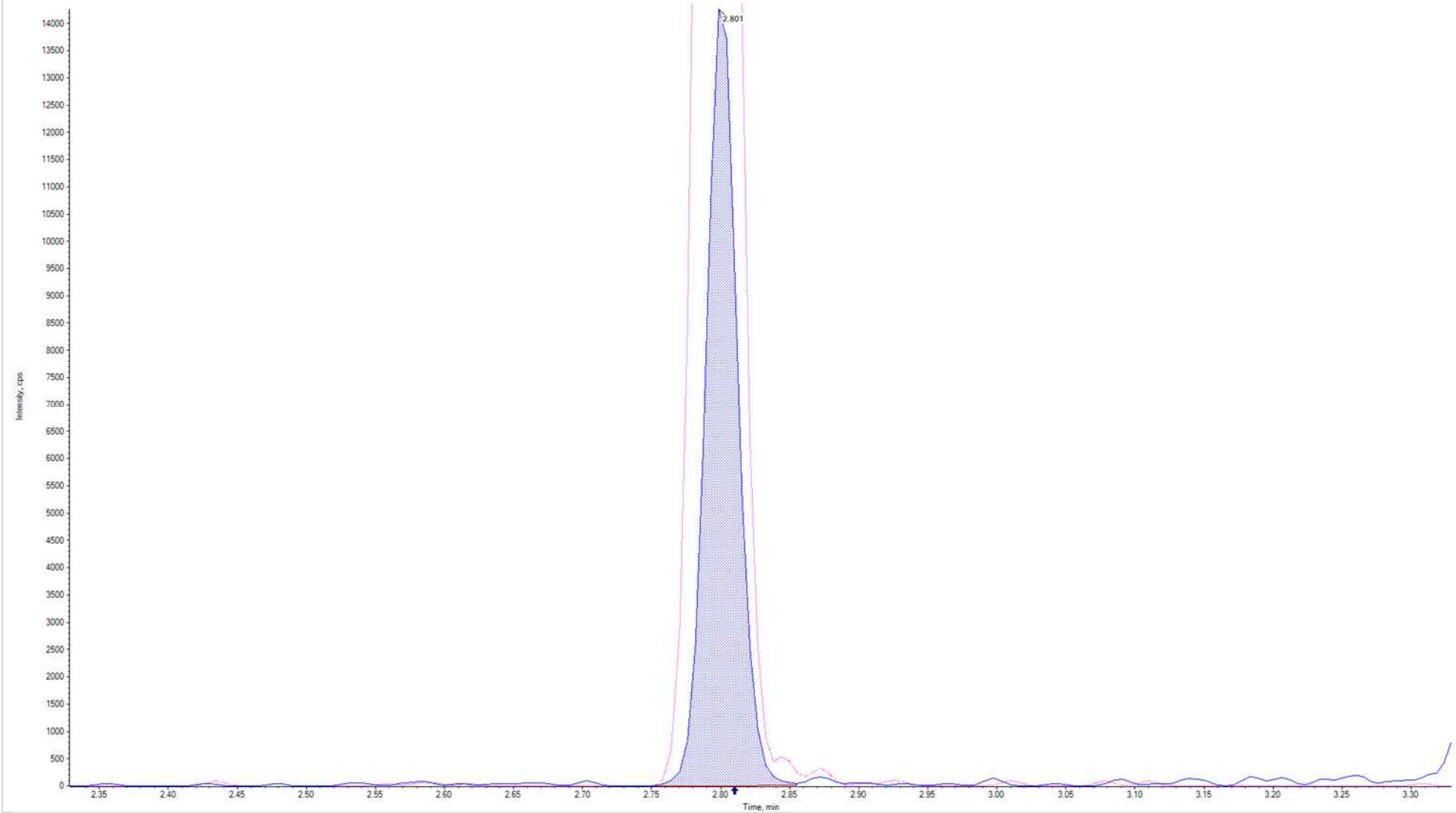
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

4:2FTS_2
Sample: IA1633STD-.2 S/N:303.3 Points Across peak:28



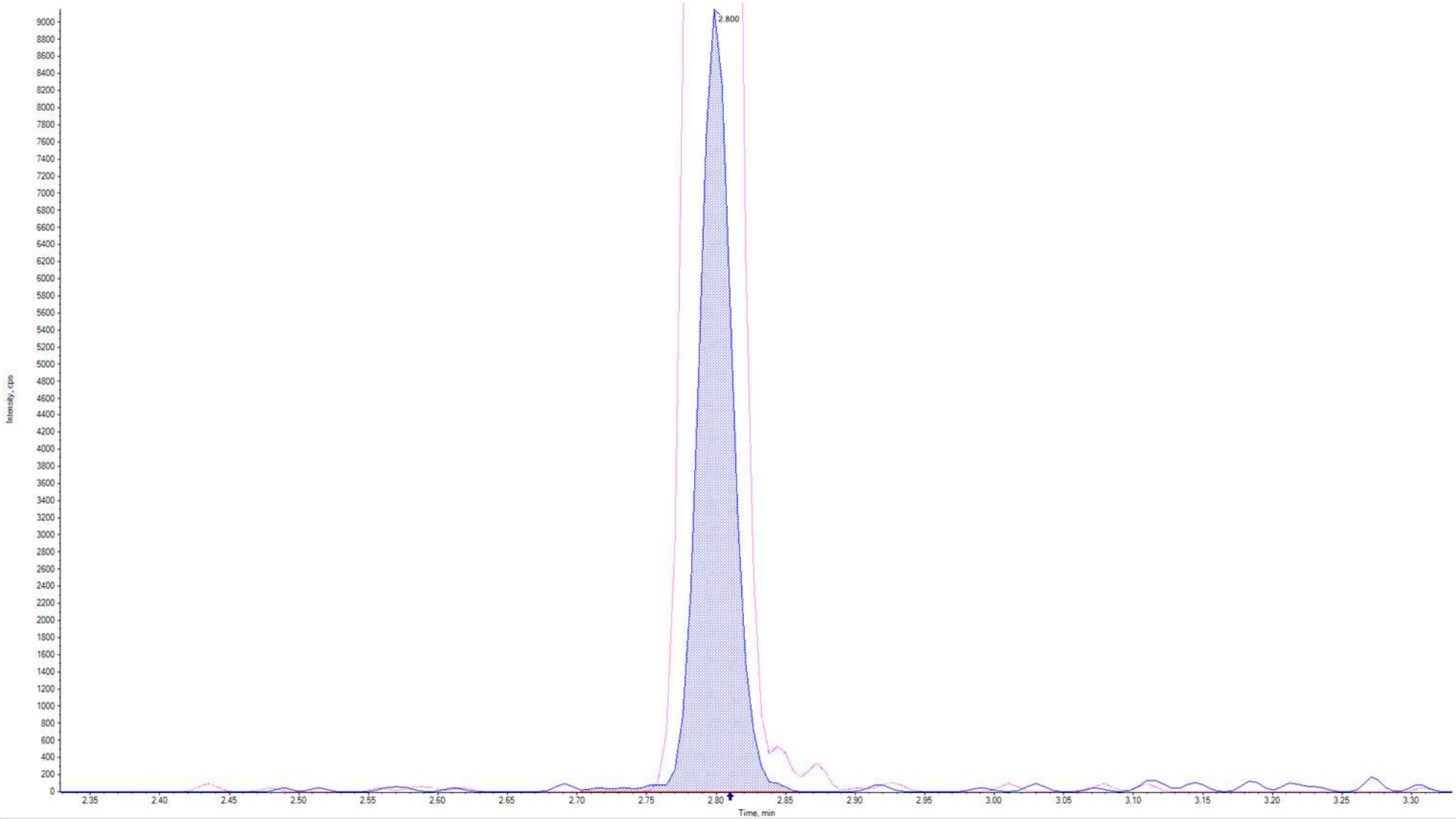
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

6:2FTS
Sample: IA1633STD-.2 S/N:286.0 Points Across peak:21



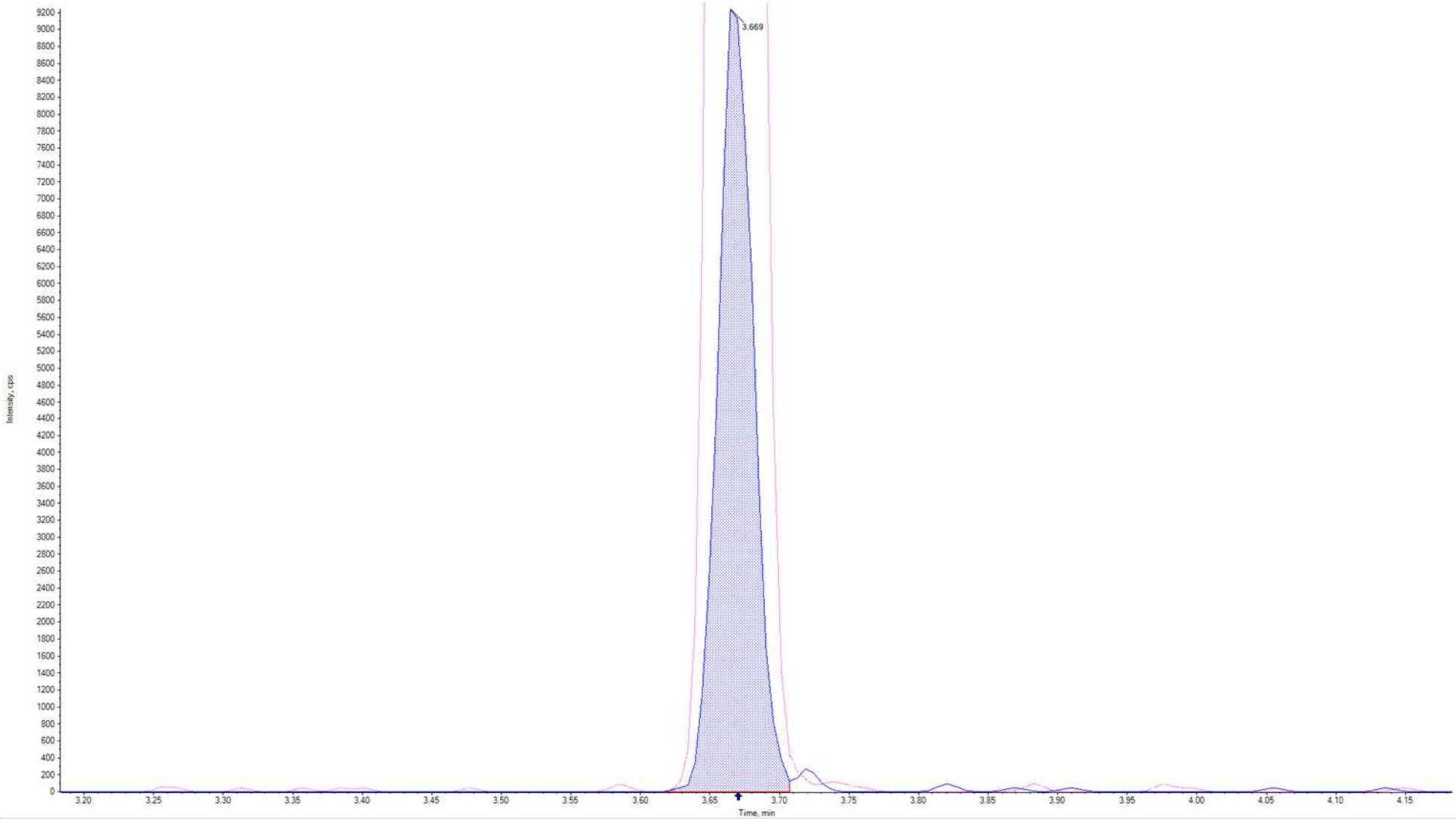
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

6:2FTS_2
Sample: IA1633STD-.2 S/N:183.5 Points Across peak:31



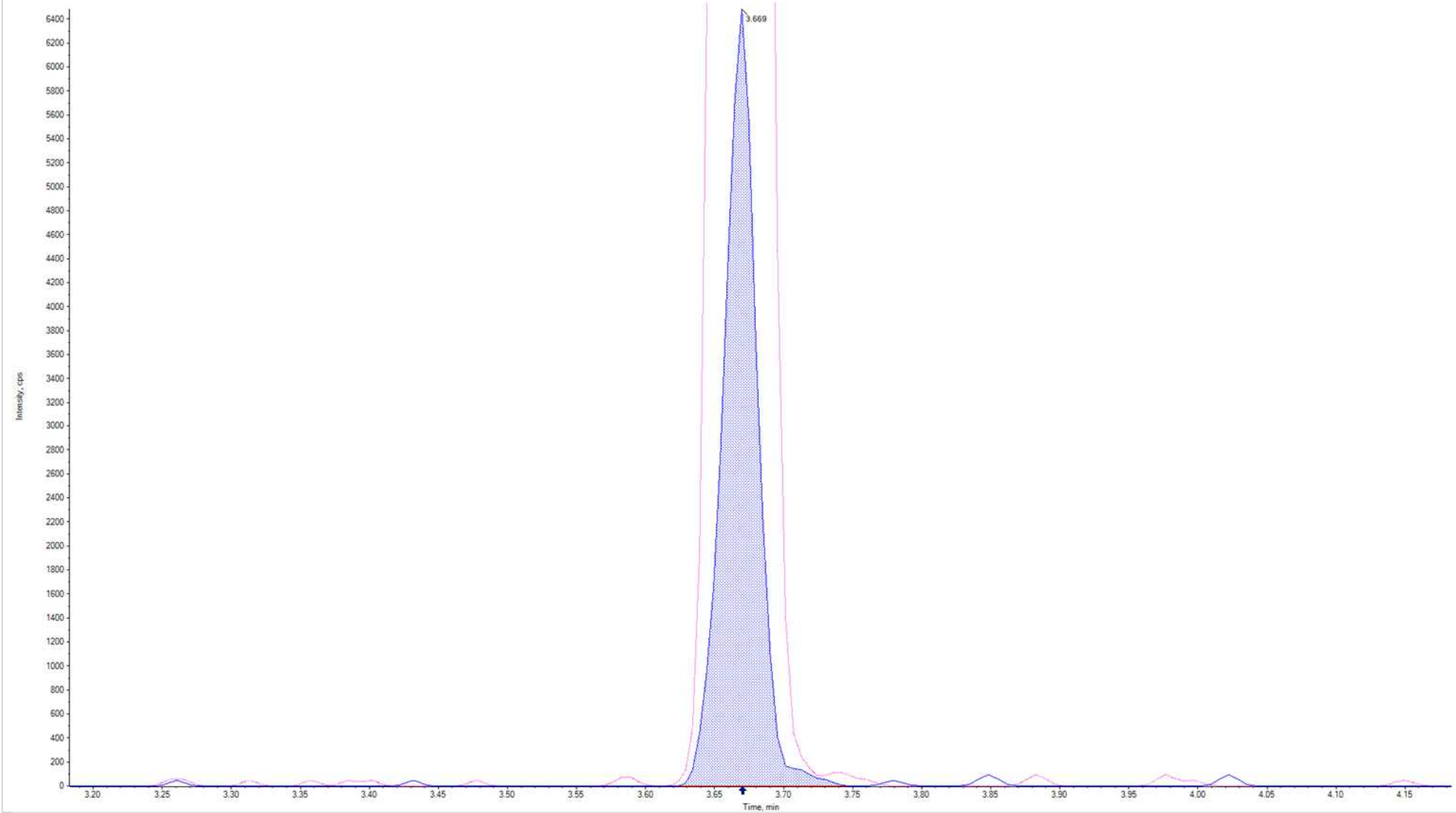
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

8:2FTS
Sample: IA1633STD-.2 S/N:185.3 Points Across peak:24



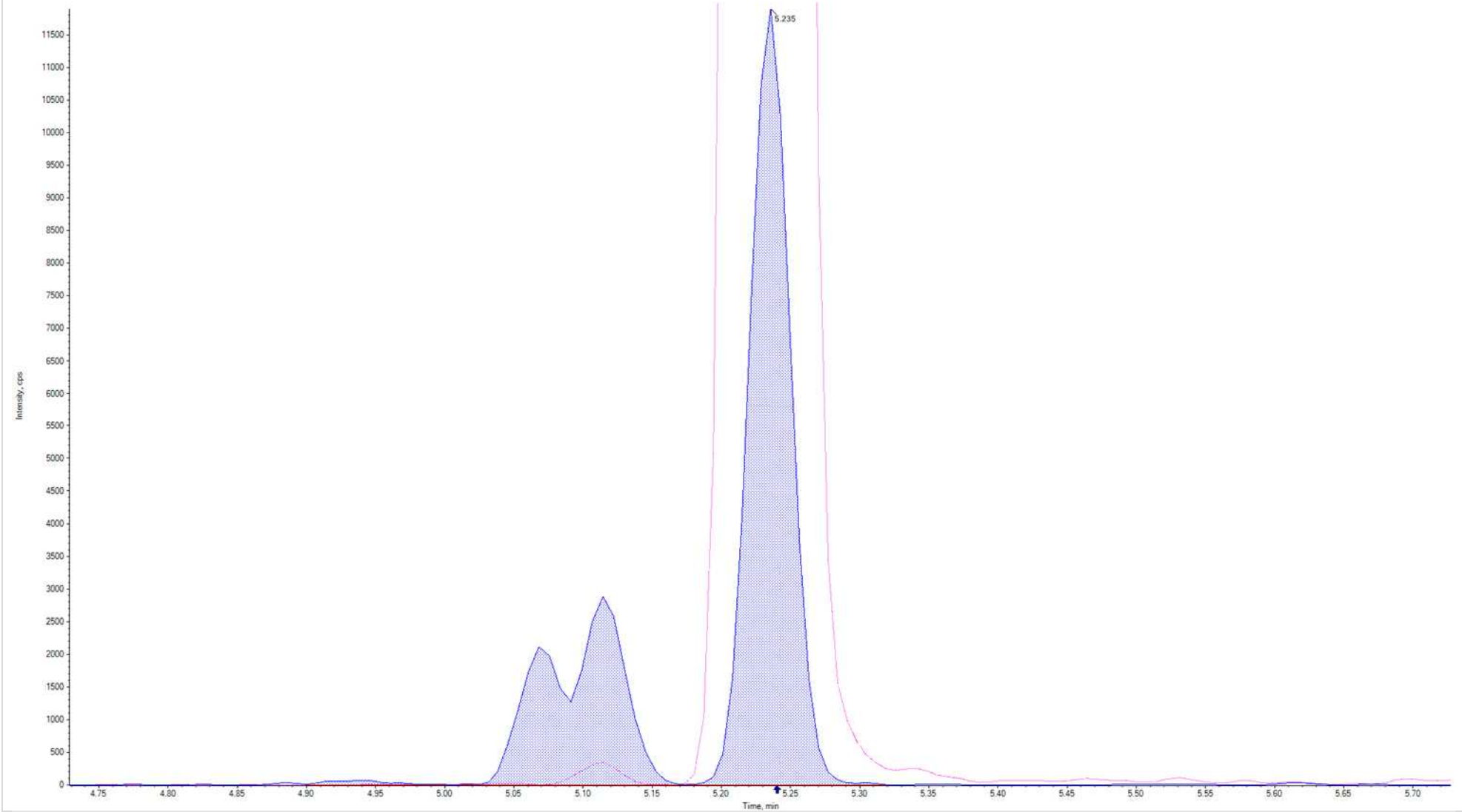
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

8:2FTS_2
Sample: IA1633STD-.2 S/N:130.0 Points Across peak:30



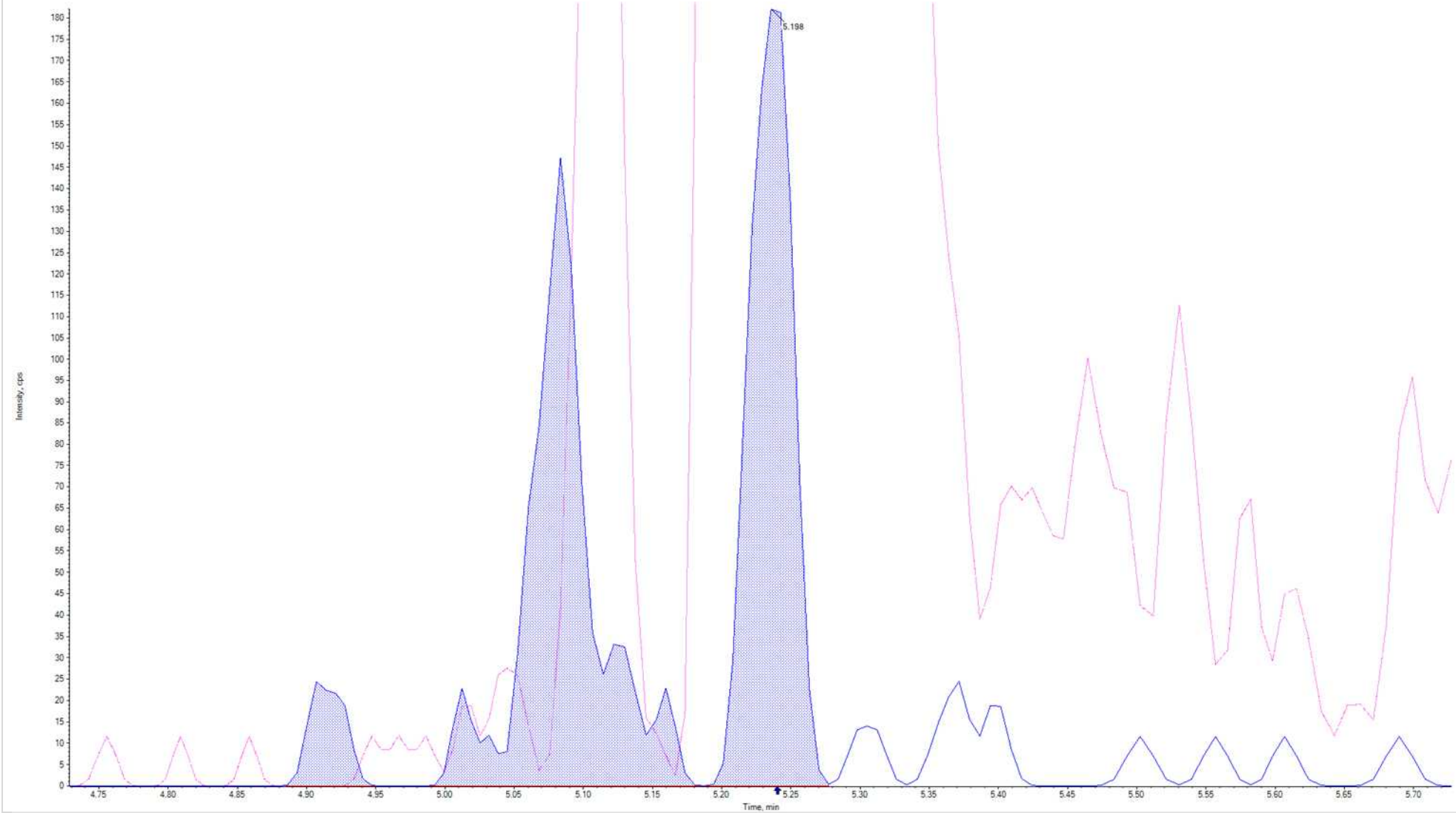
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFOSA
Sample: IA1633STD-.2 S/N:390.9 Points Across peak:63



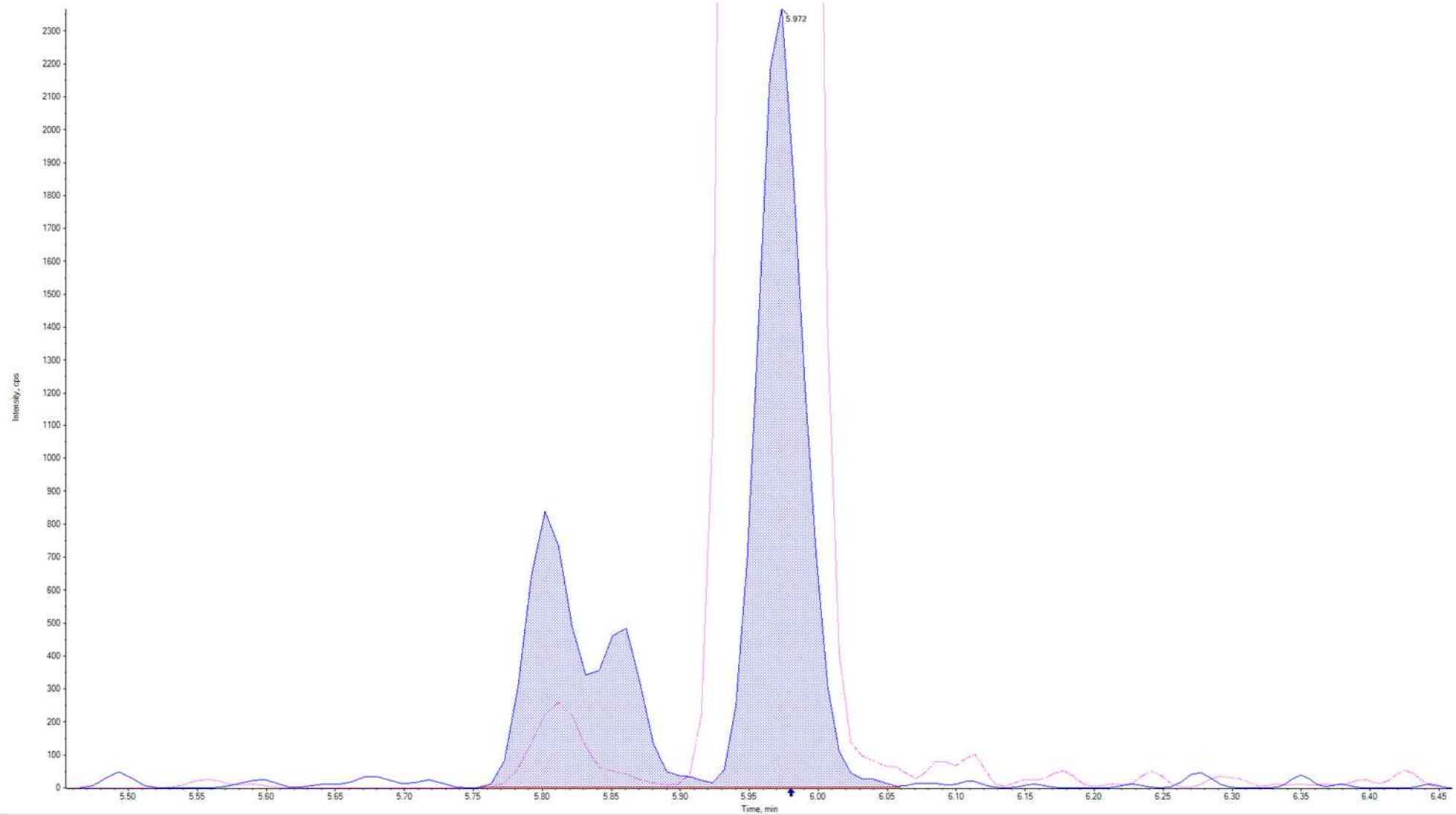
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFOSA_2
Sample: IA1633STD-.2 S/N:16.0 Points Across peak:59



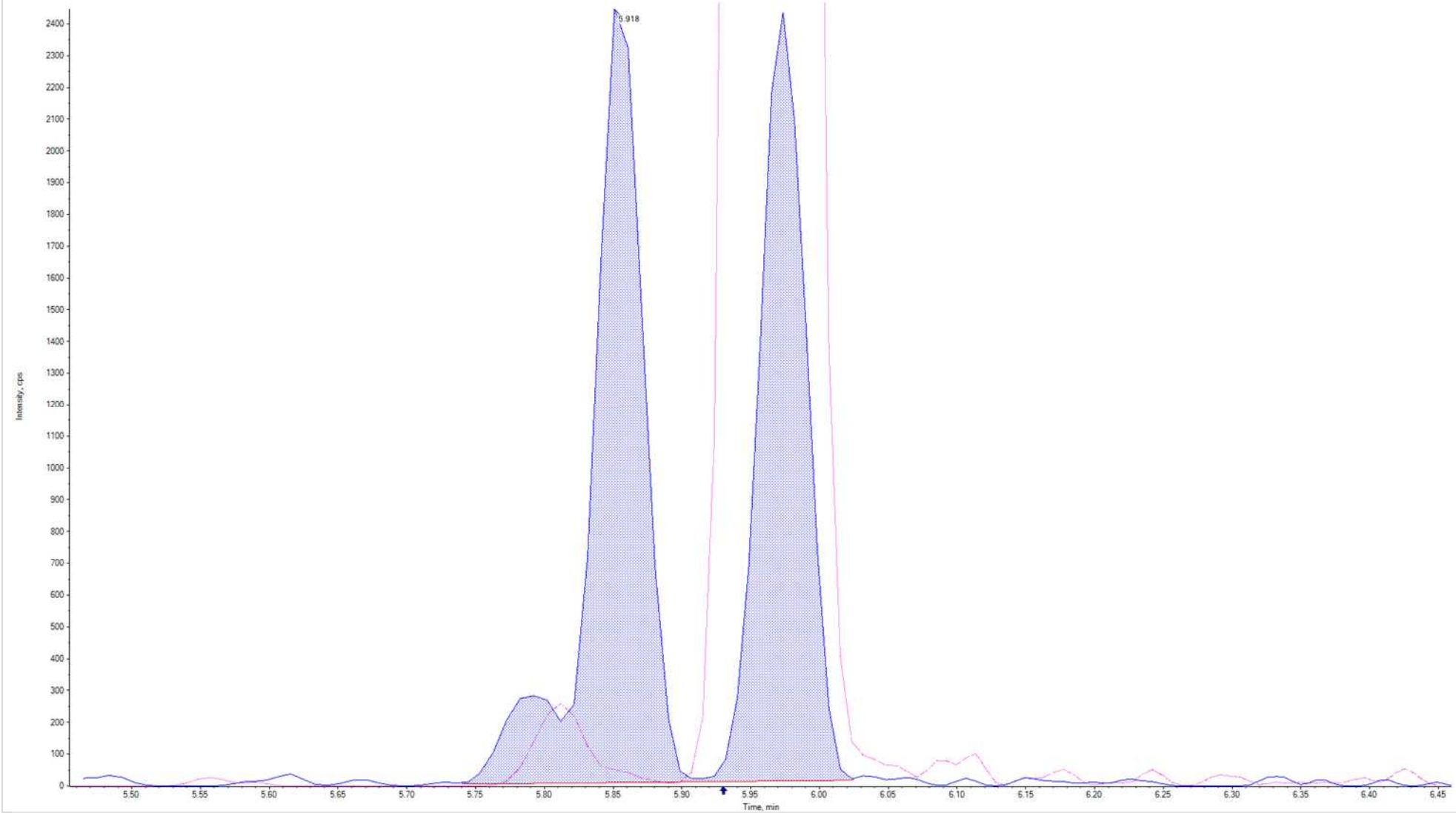
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NMeFOSA
Sample: IA1633STD-.2 S/N:140.8 Points Across peak:36



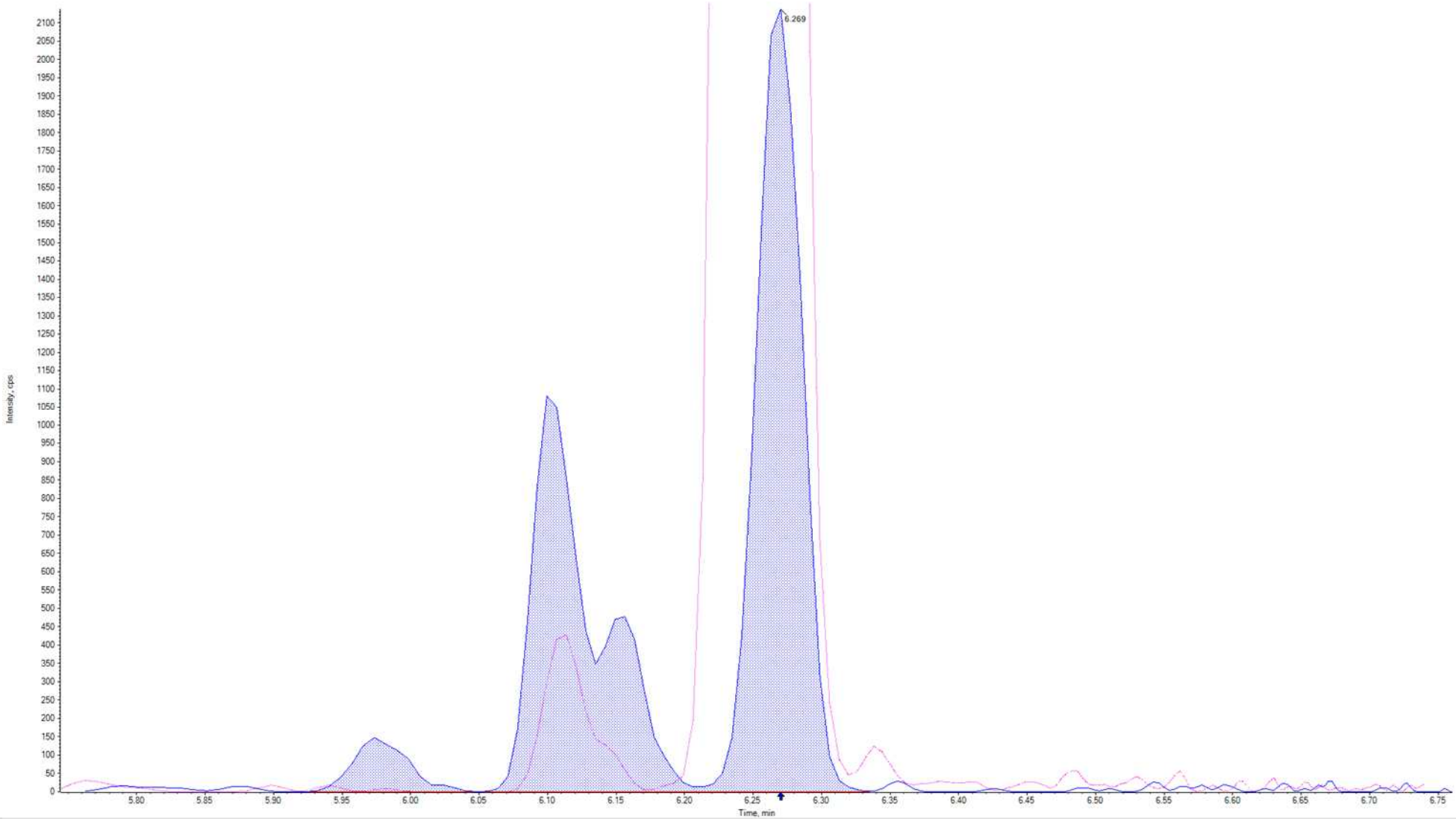
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSA_2
Sample: IA1633STD-.2 S/N:140.6 Points Across peak:34



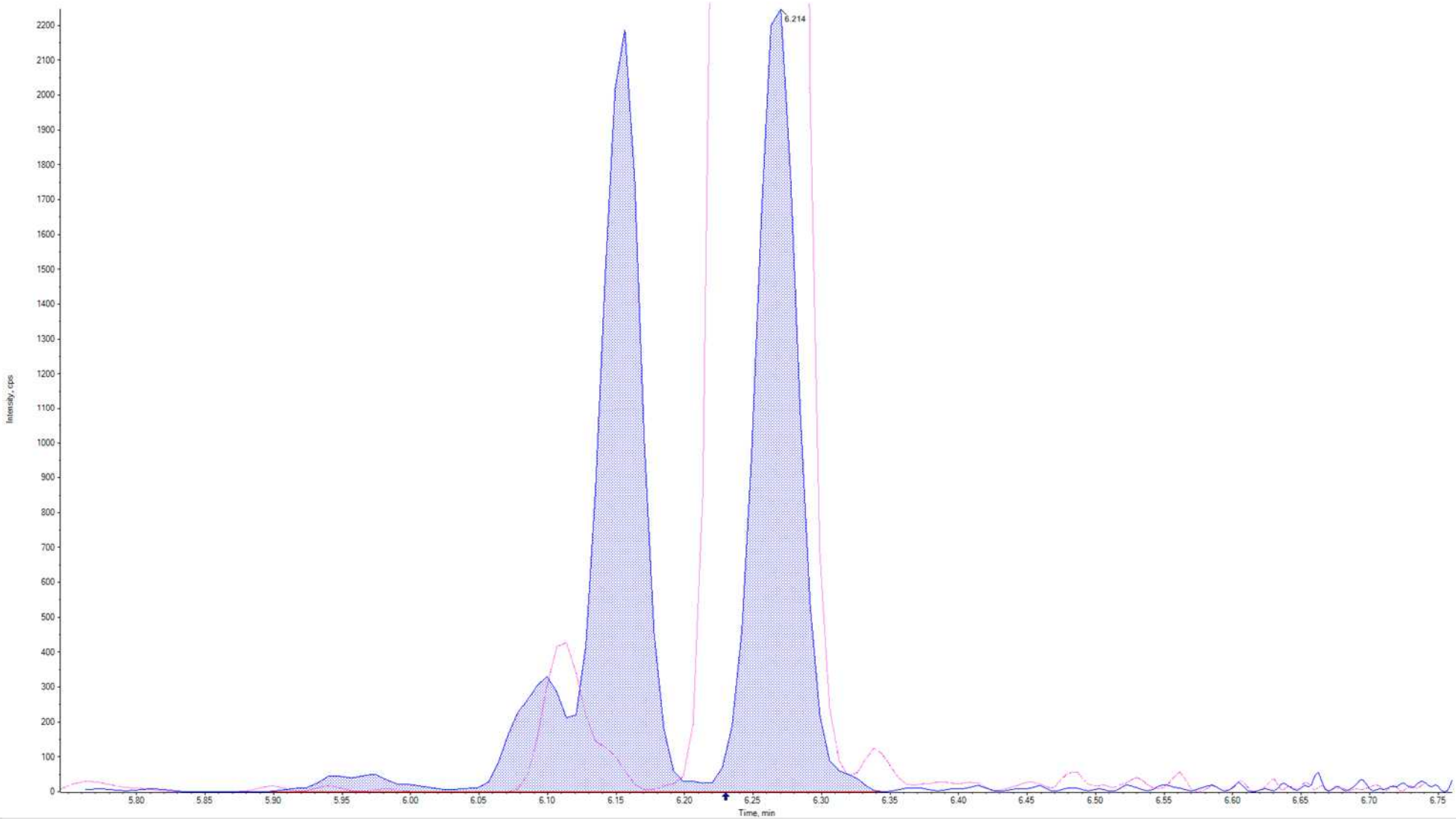
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSA
Sample: IA1633STD-.2 S/N:230.4 Points Across peak:58



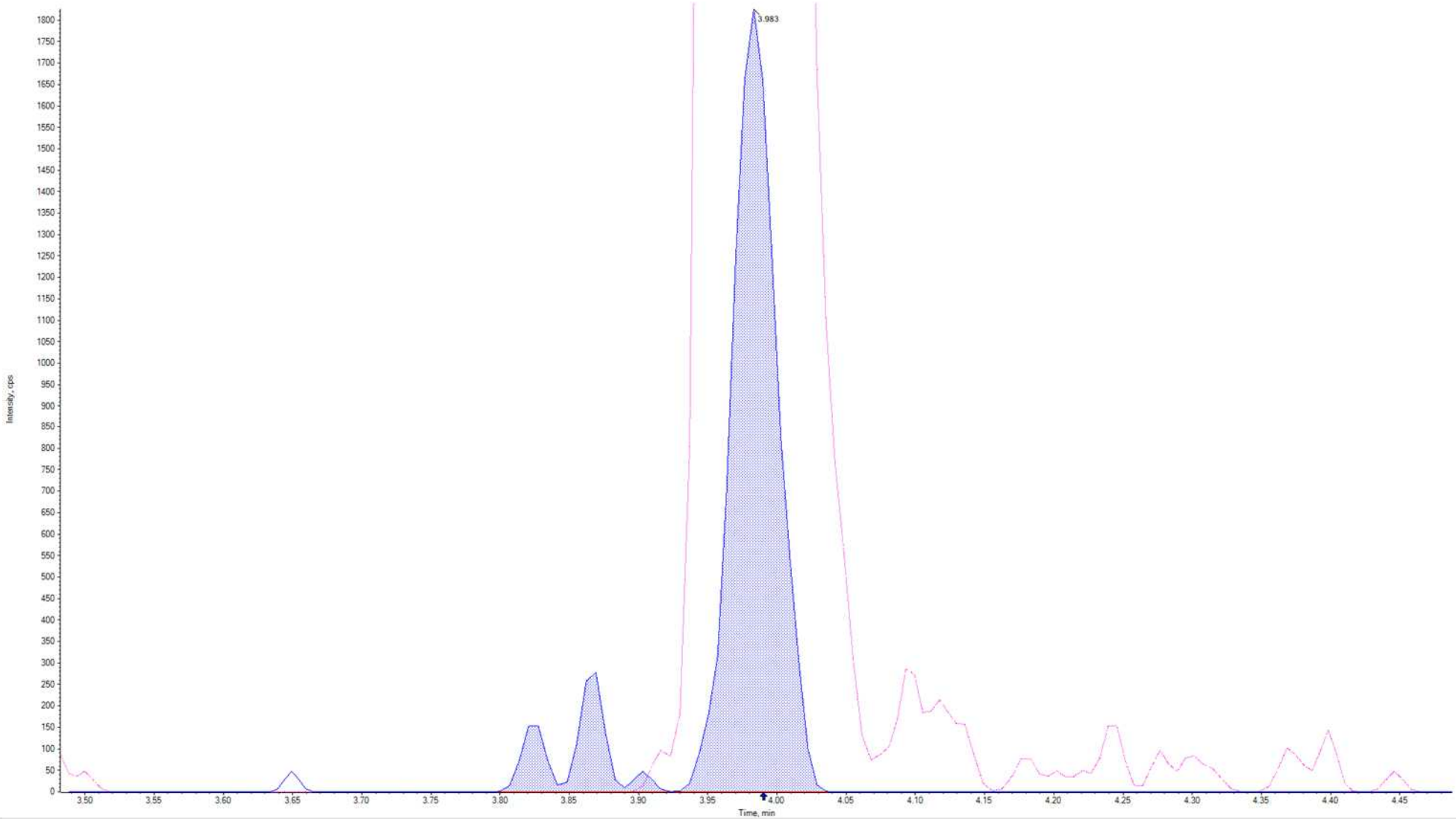
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSA_2
Sample: IA1633STD-.2 S/N:202.2 Points Across peak:63



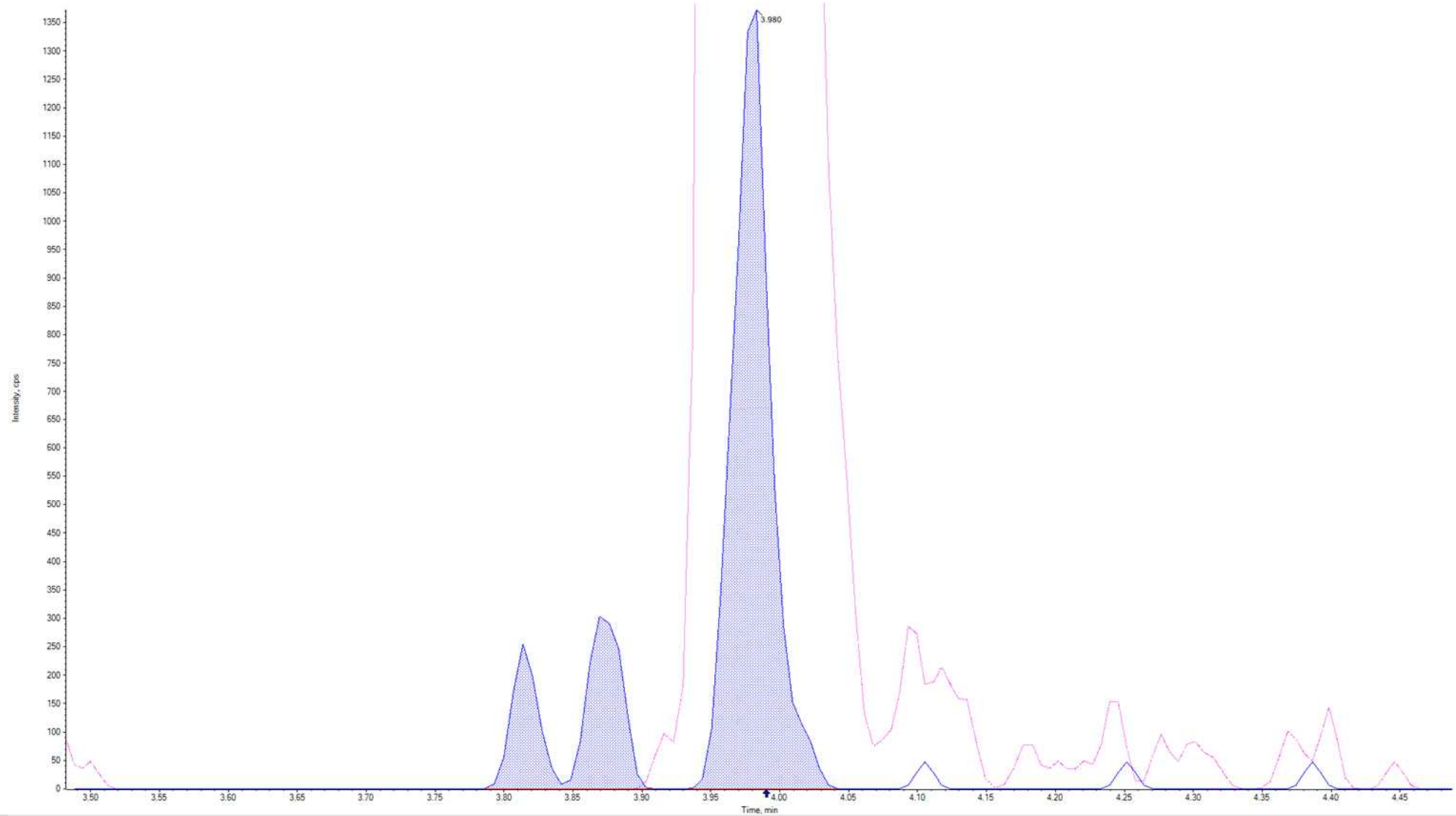
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSAA
Sample: IA1633STD-.2 S/N:36.6 Points Across peak:46



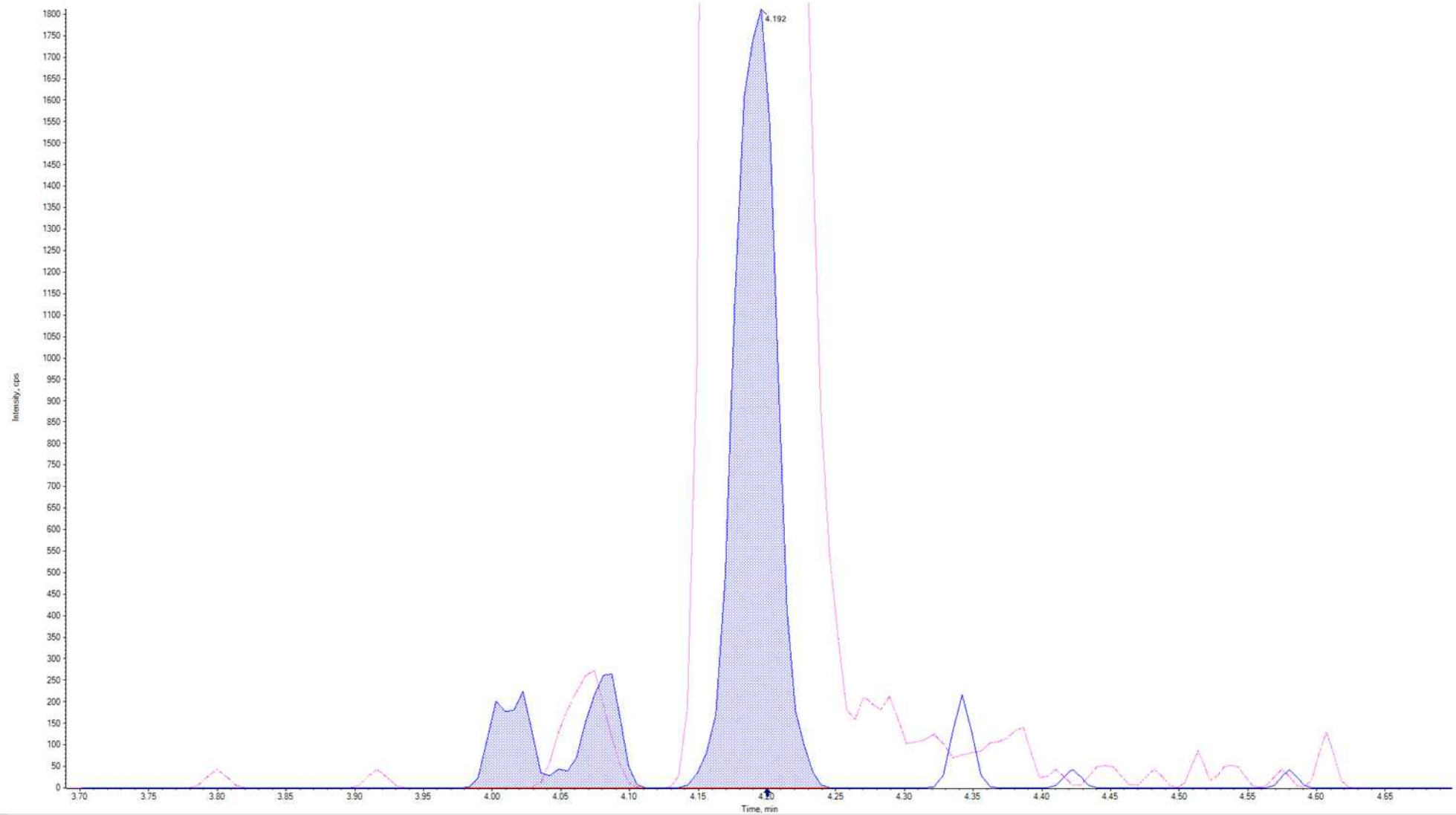
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSAA_2
Sample: IA1633STD-.2 S/N:27.5 Points Across peak:41



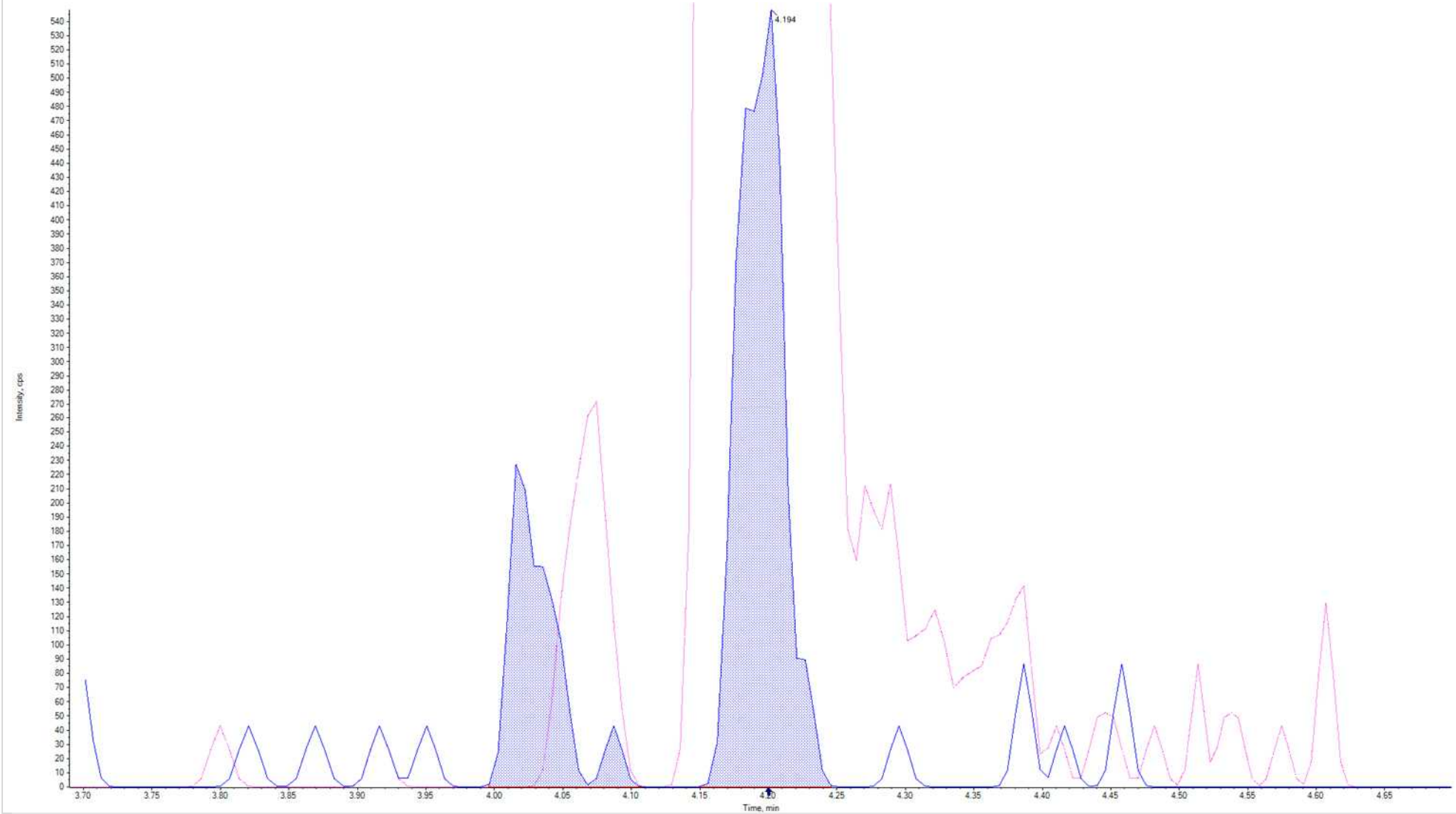
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSAA
Sample: IA1633STD-.2 S/N:40.9 Points Across peak:45



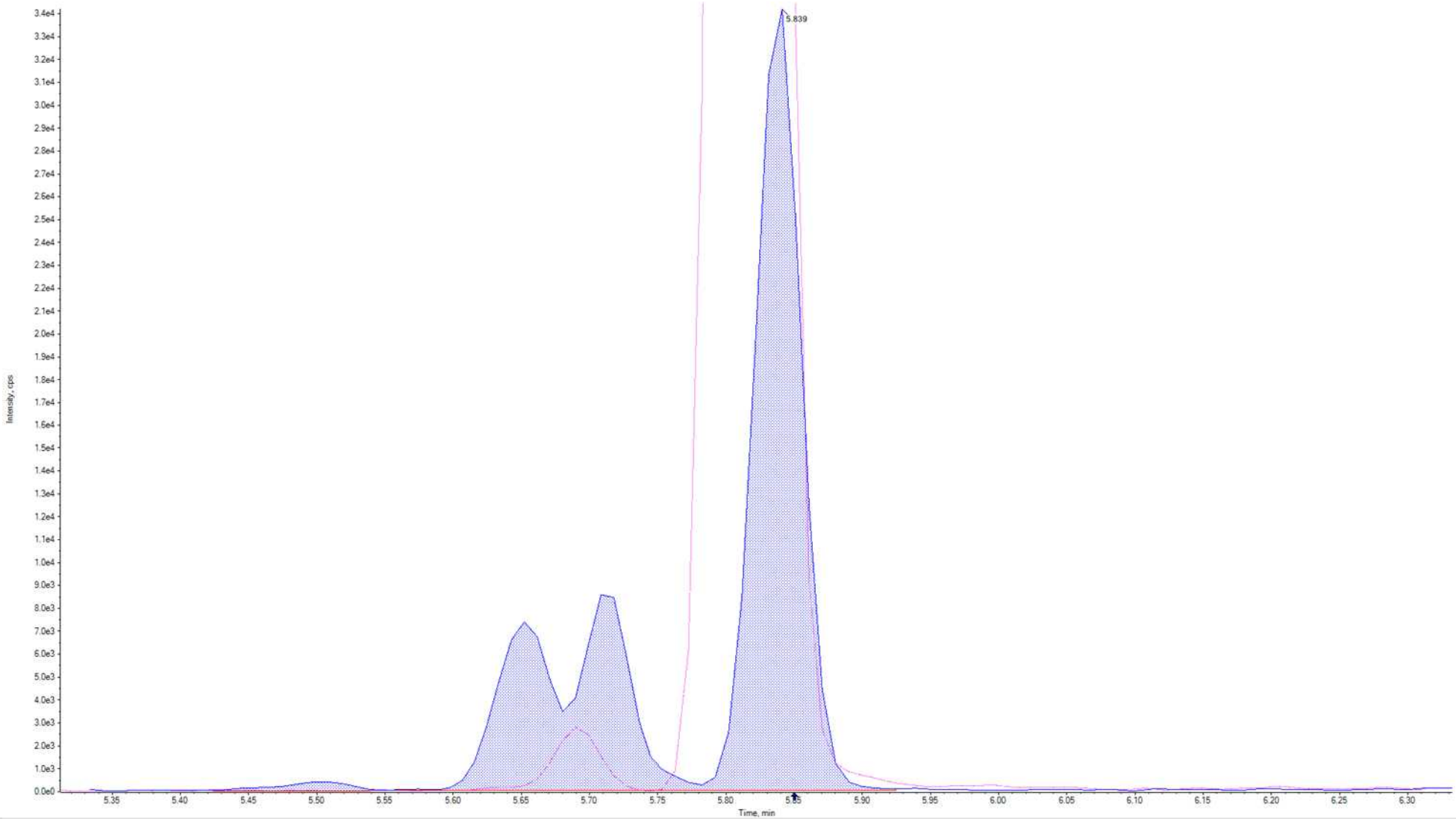
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSAA_2
Sample: IA1633STD-.2 S/N:12.4 Points Across peak:42



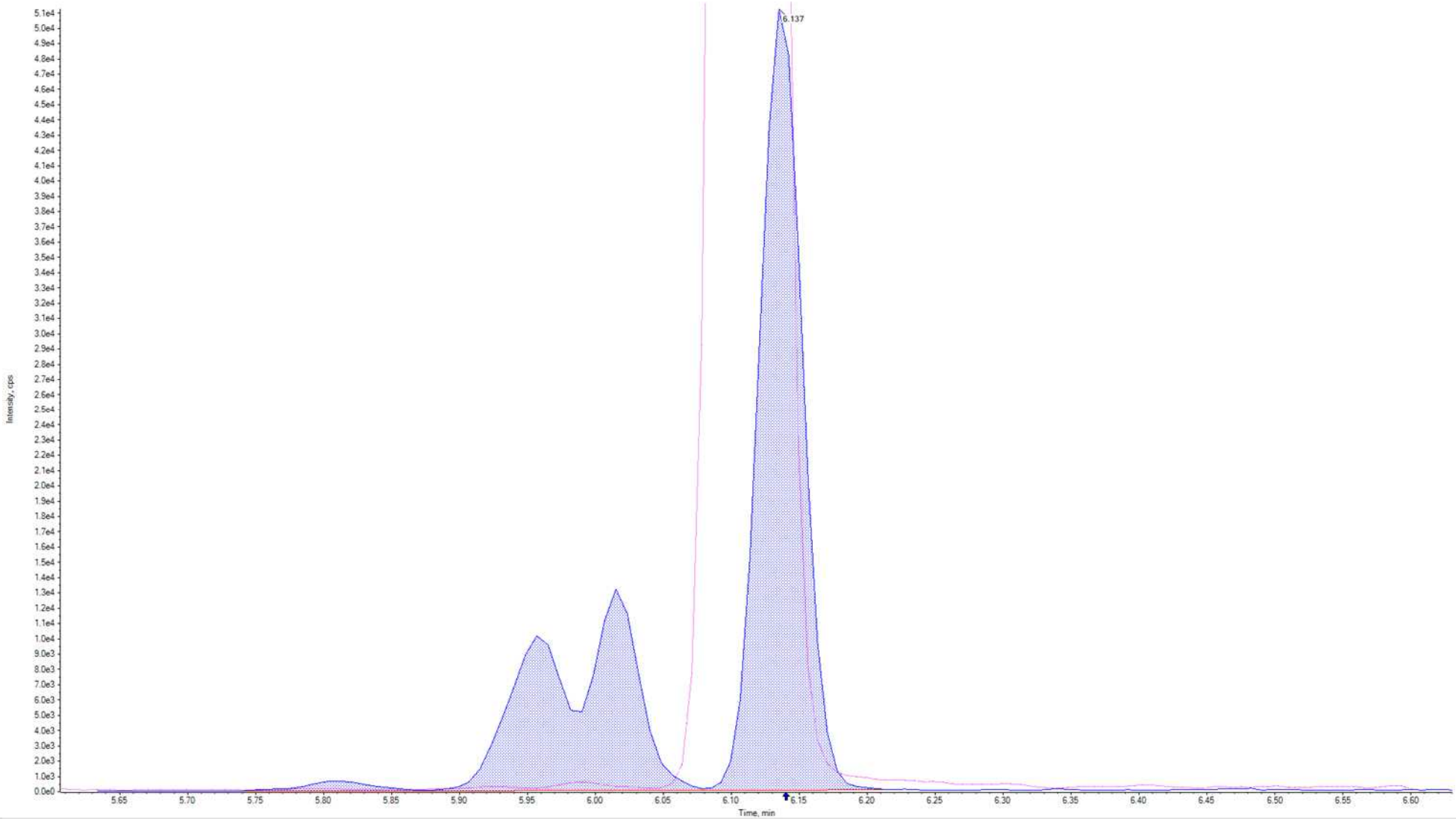
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSE
Sample: IA1633STD-.2 S/N:217.6 Points Across peak:58



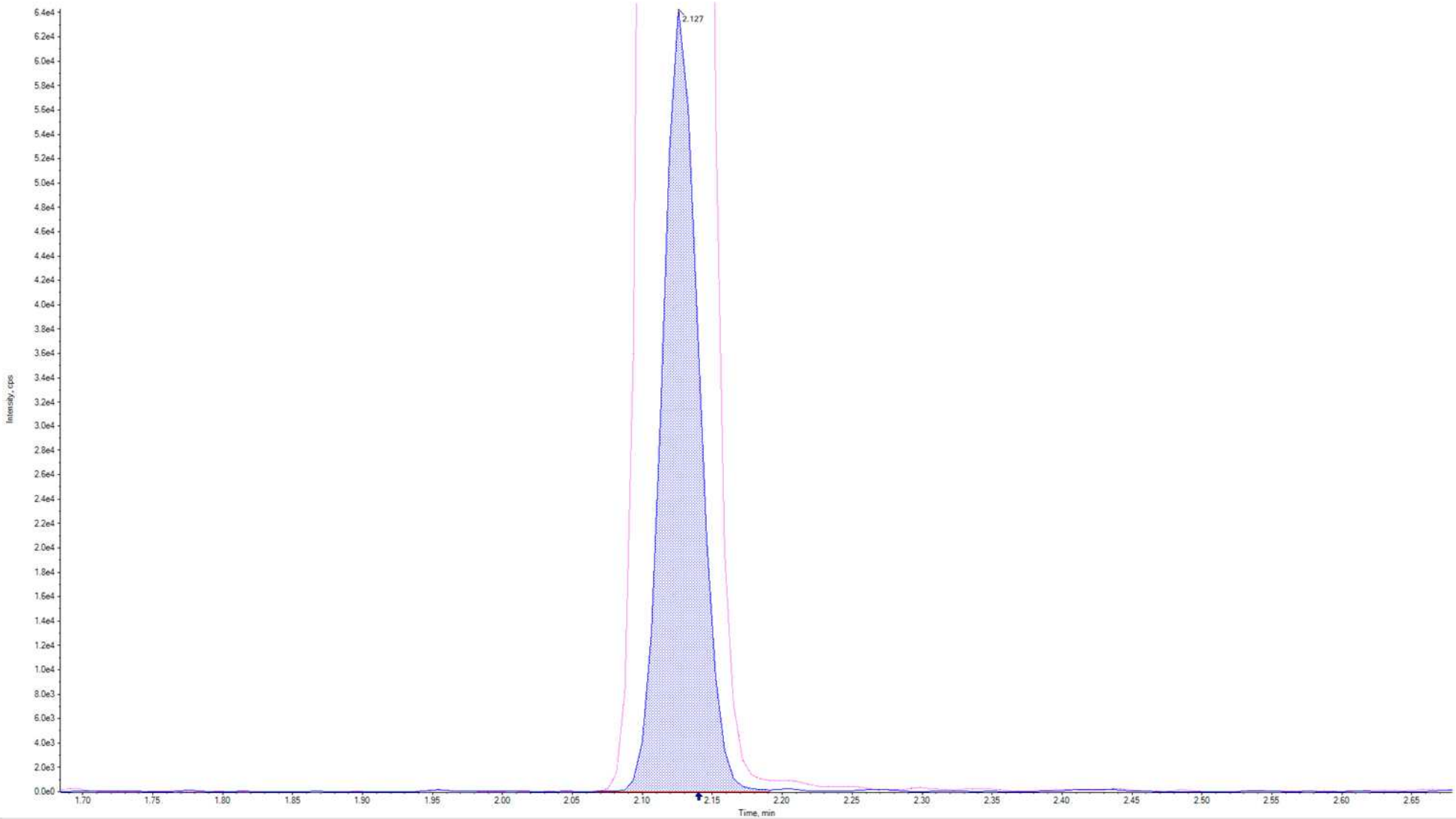
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSE
Sample: IA1633STD-.2 S/N:344.4 Points Across peak:61



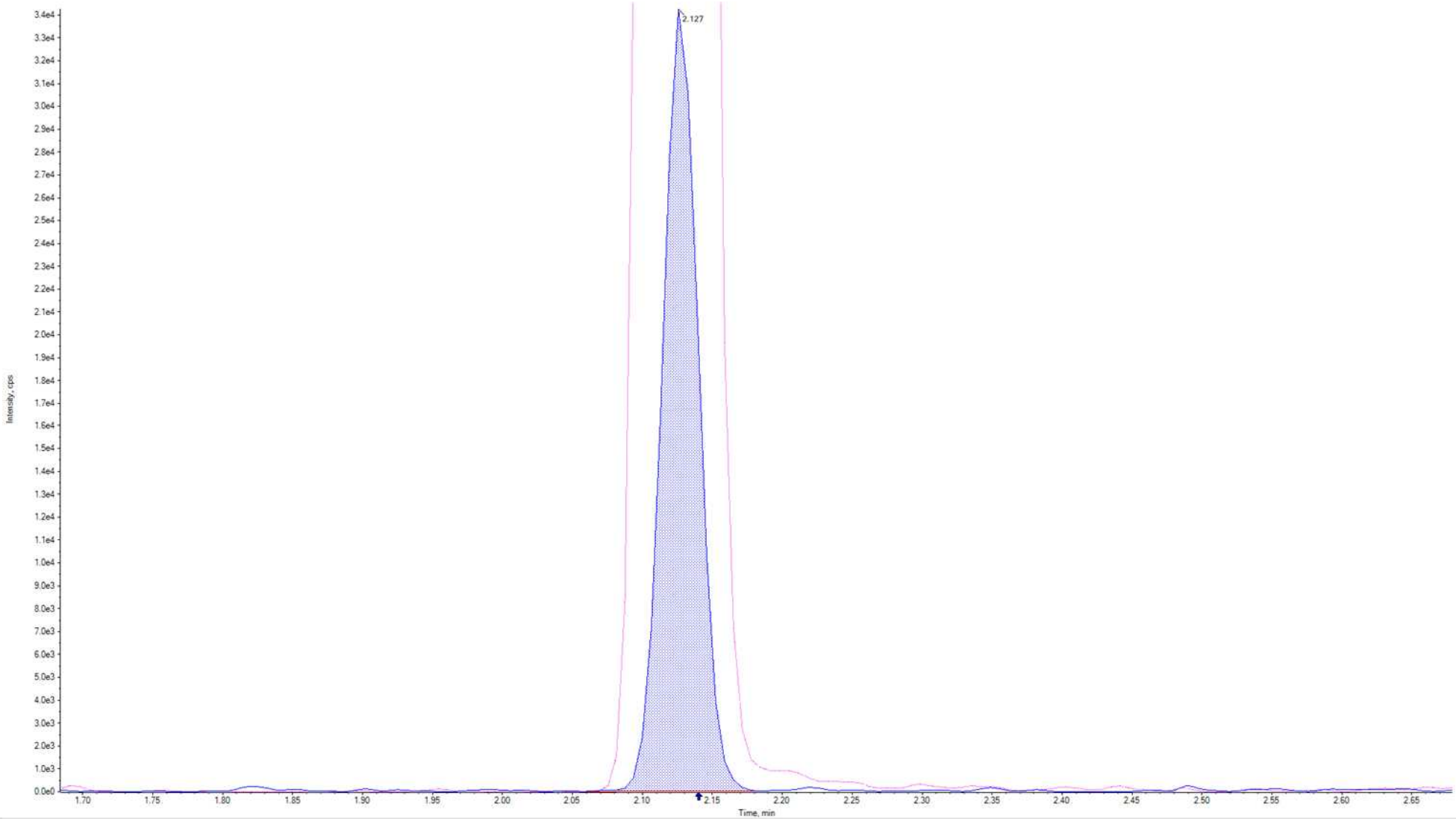
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

HFPO-DA
Sample: IA1633STD-.2 S/N:1449.6 Points Across peak:22



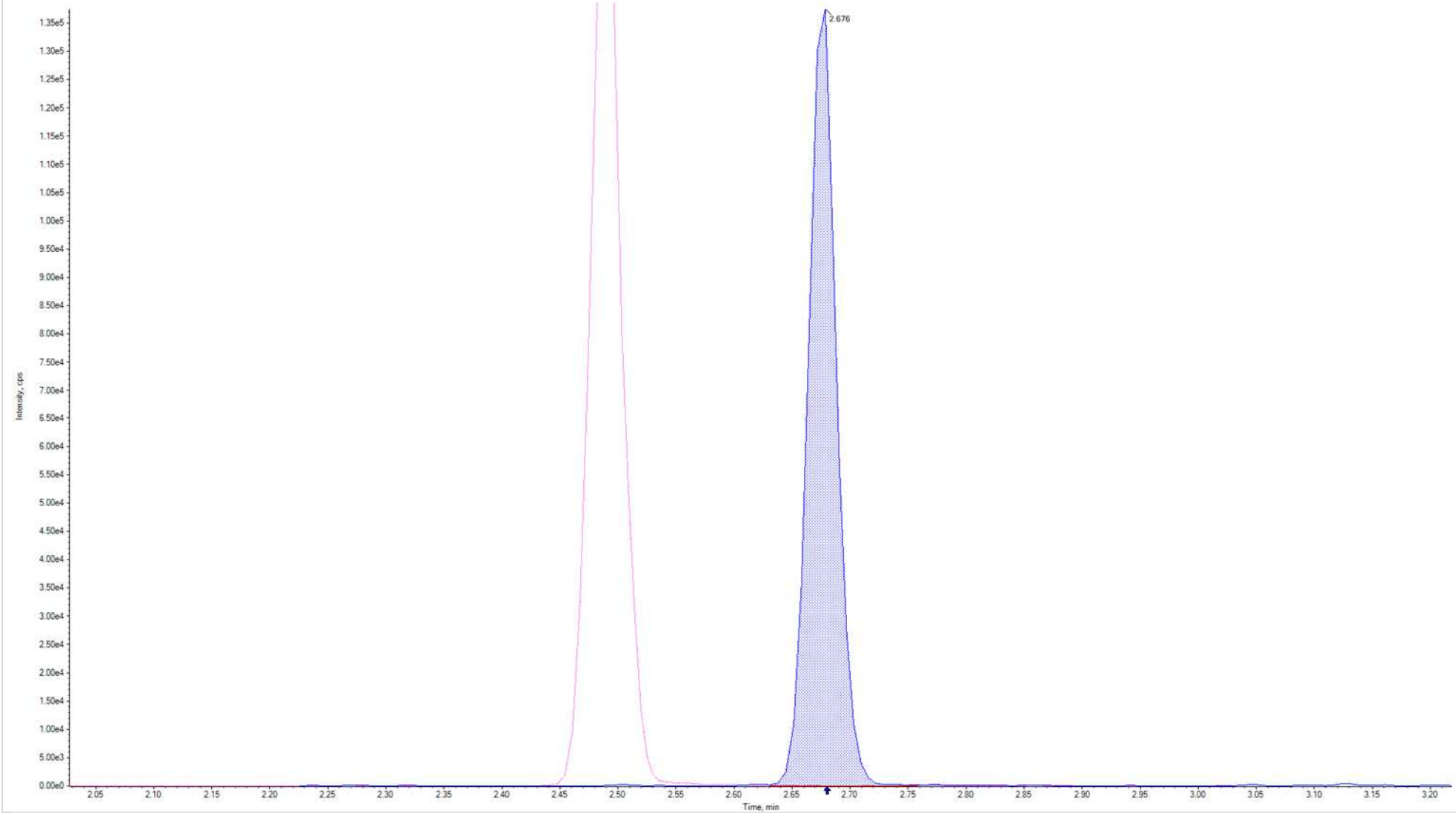
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

HFPO-DA_2
Sample: IA1633STD-.2 S/N:772.2 Points Across peak:21



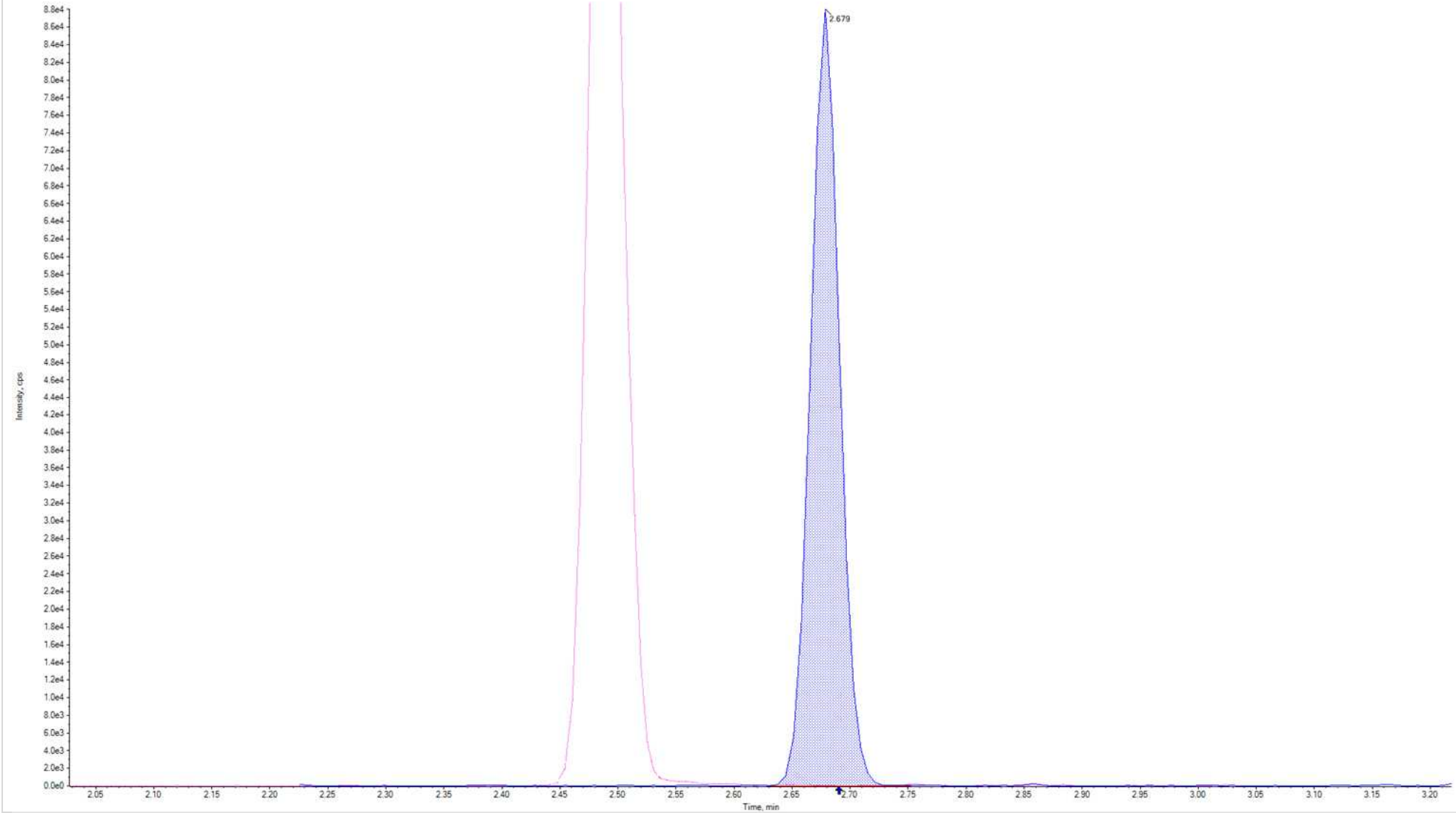
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

ADONA
Sample: IA1633STD-.2 S/N:1907.9 Points Across peak:21



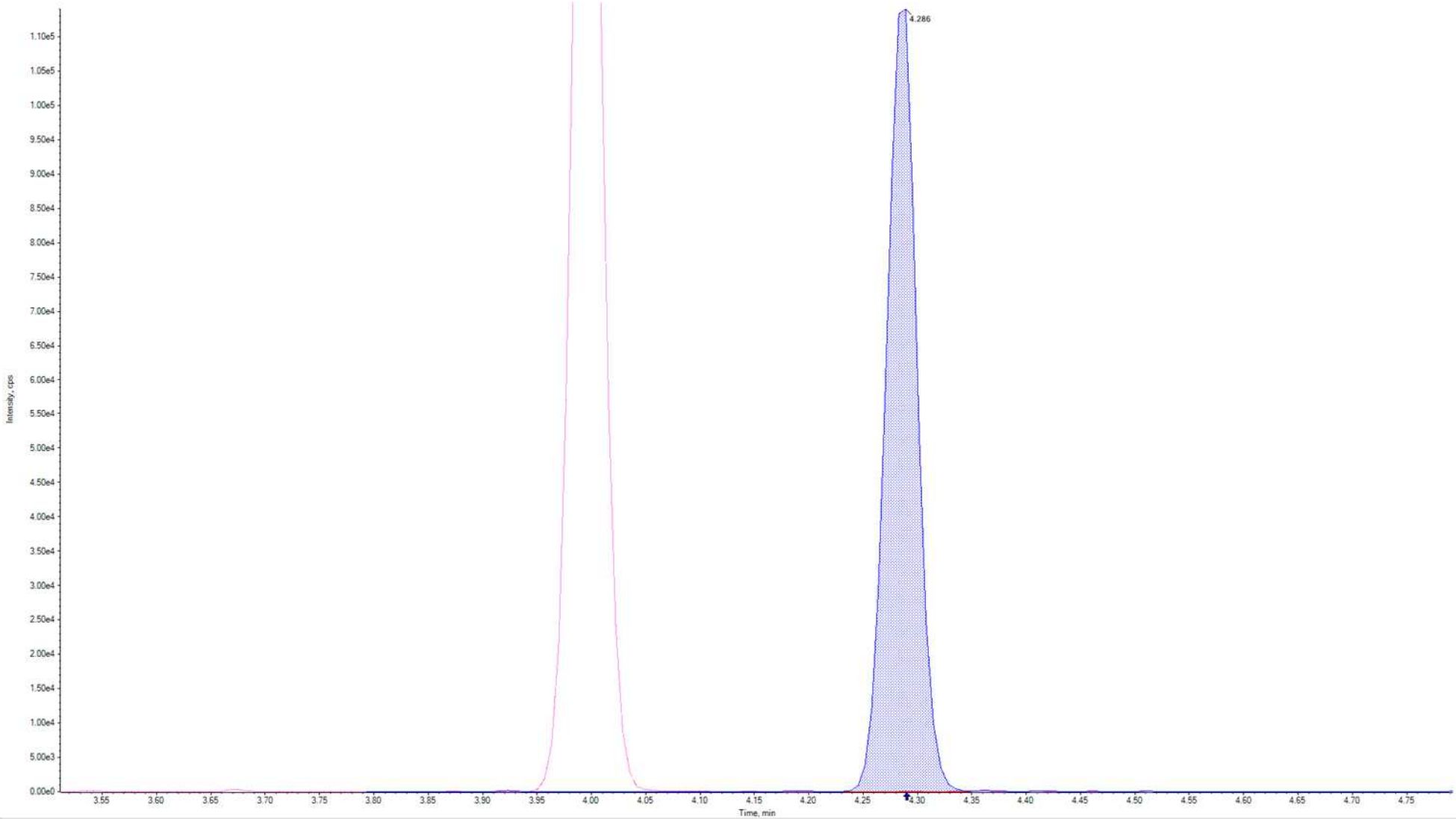
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

ADONA_2
Sample: IA1633STD-.2 S/N:1764.7 Points Across peak:20



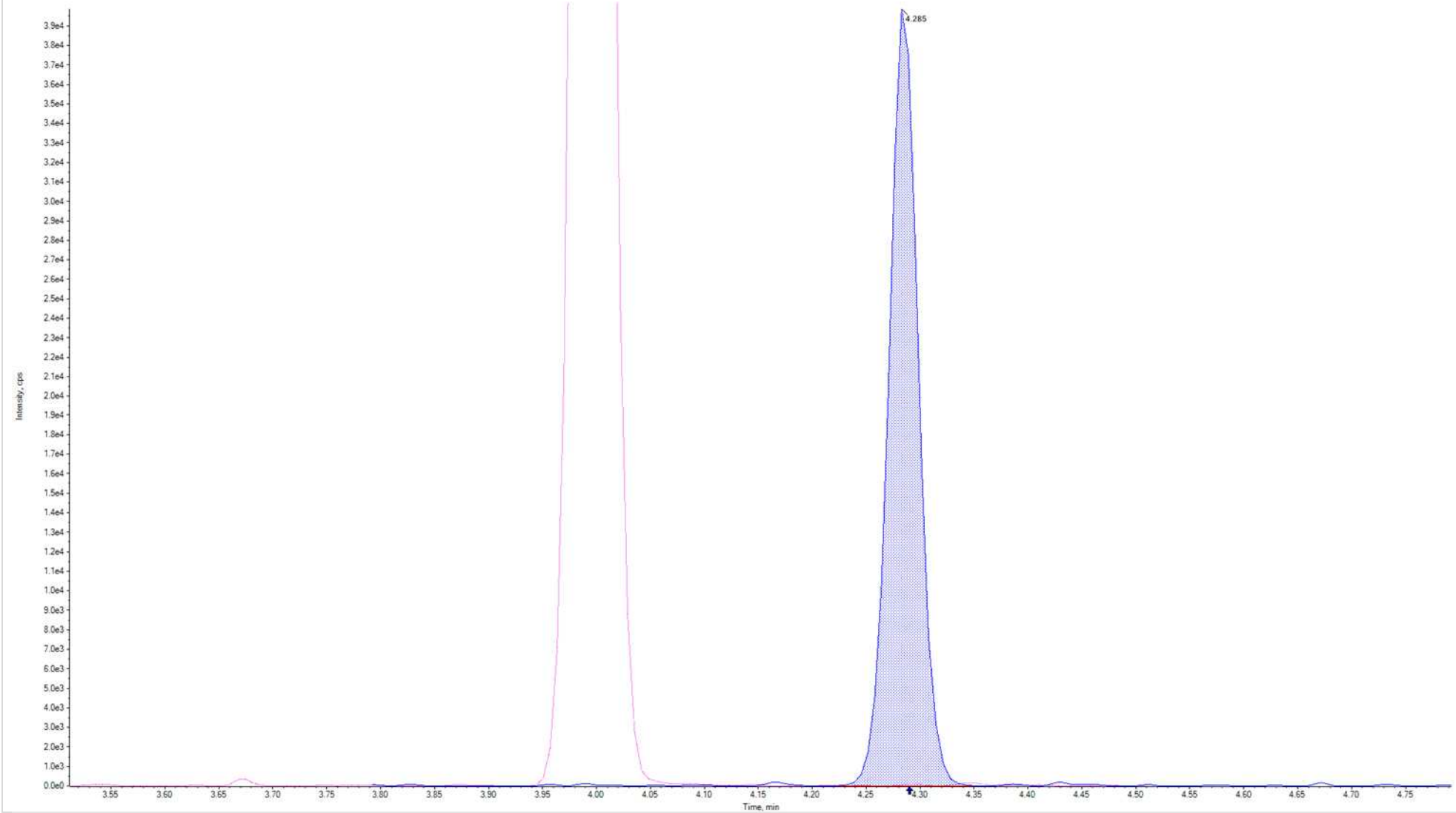
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS
Sample: IA1633STD-.2 S/N:2572.0 Points Across peak:21



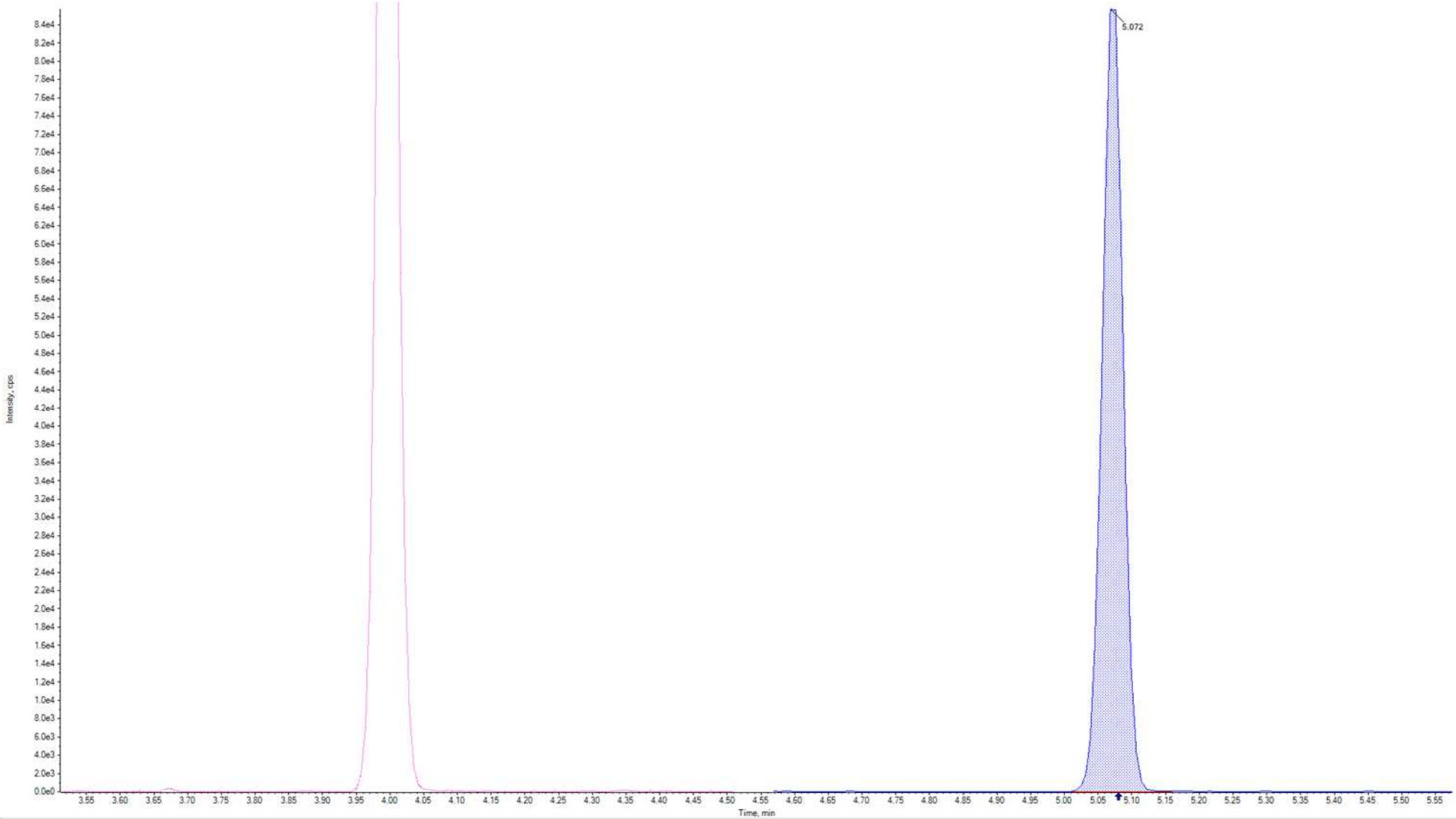
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS_2
Sample: IA1633STD-.2 S/N:899.2 Points Across peak:25



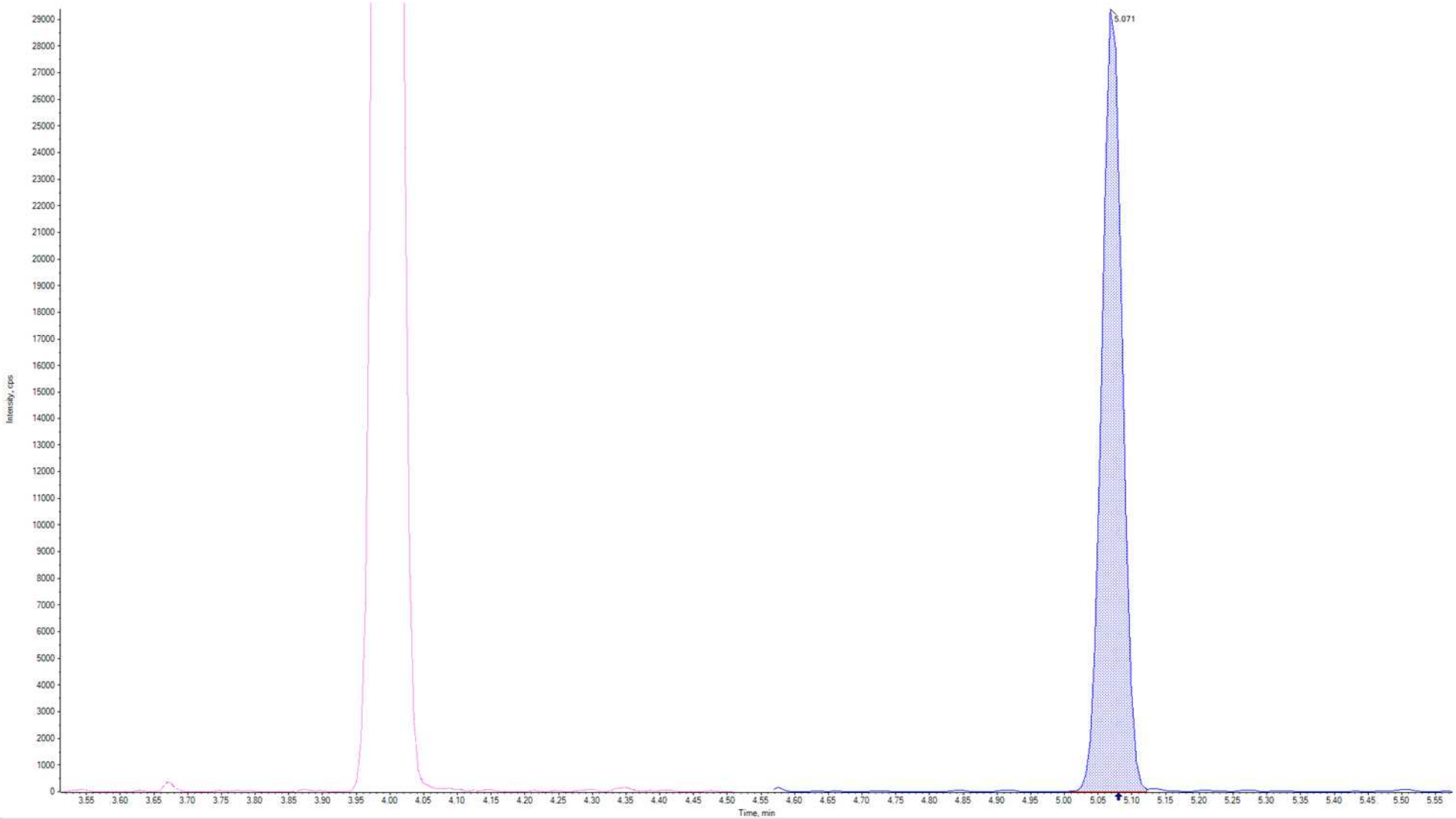
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

11Cl-PF3OUdS
Sample: IA1633STD-.2 S/N:3936.0 Points Across peak:25



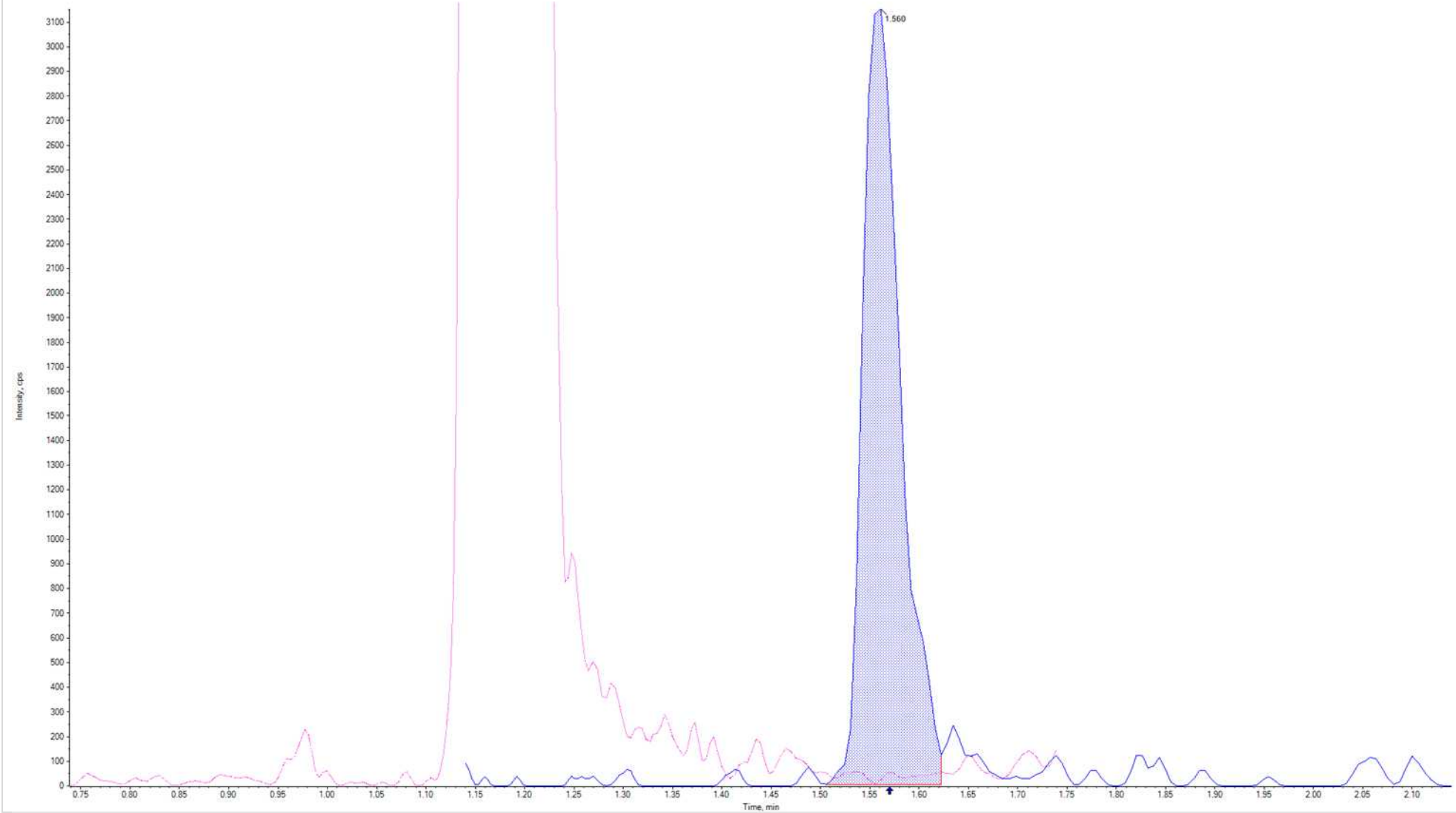
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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11Cl-PF3OUdS_2
Sample: IA1633STD-.2 S/N:1399.6 Points Across peak:20



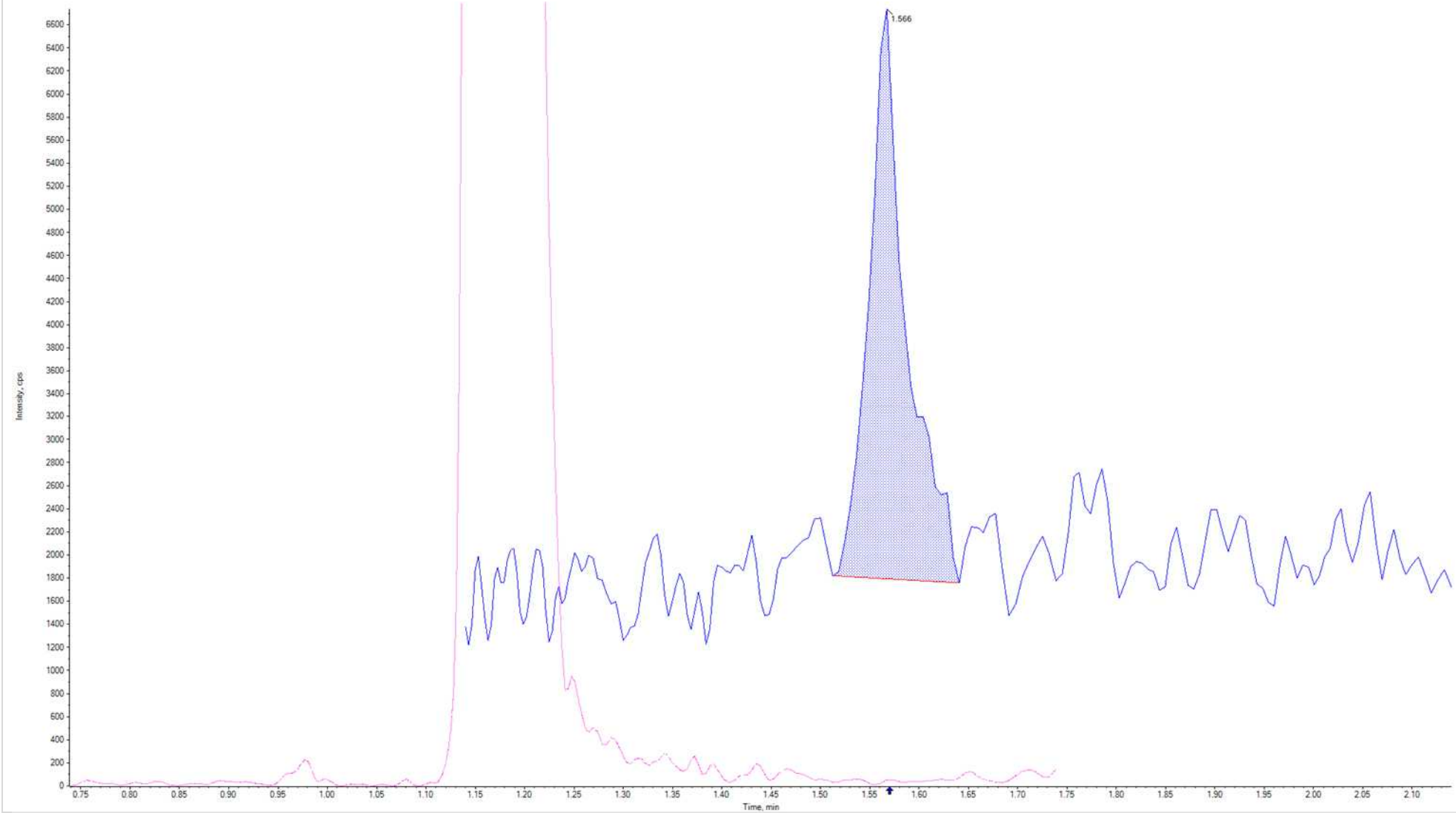
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Alpha Analytical LLC
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3:3FTCA
Sample: IA1633STD-.2 S/N:78.9 Points Across peak:20



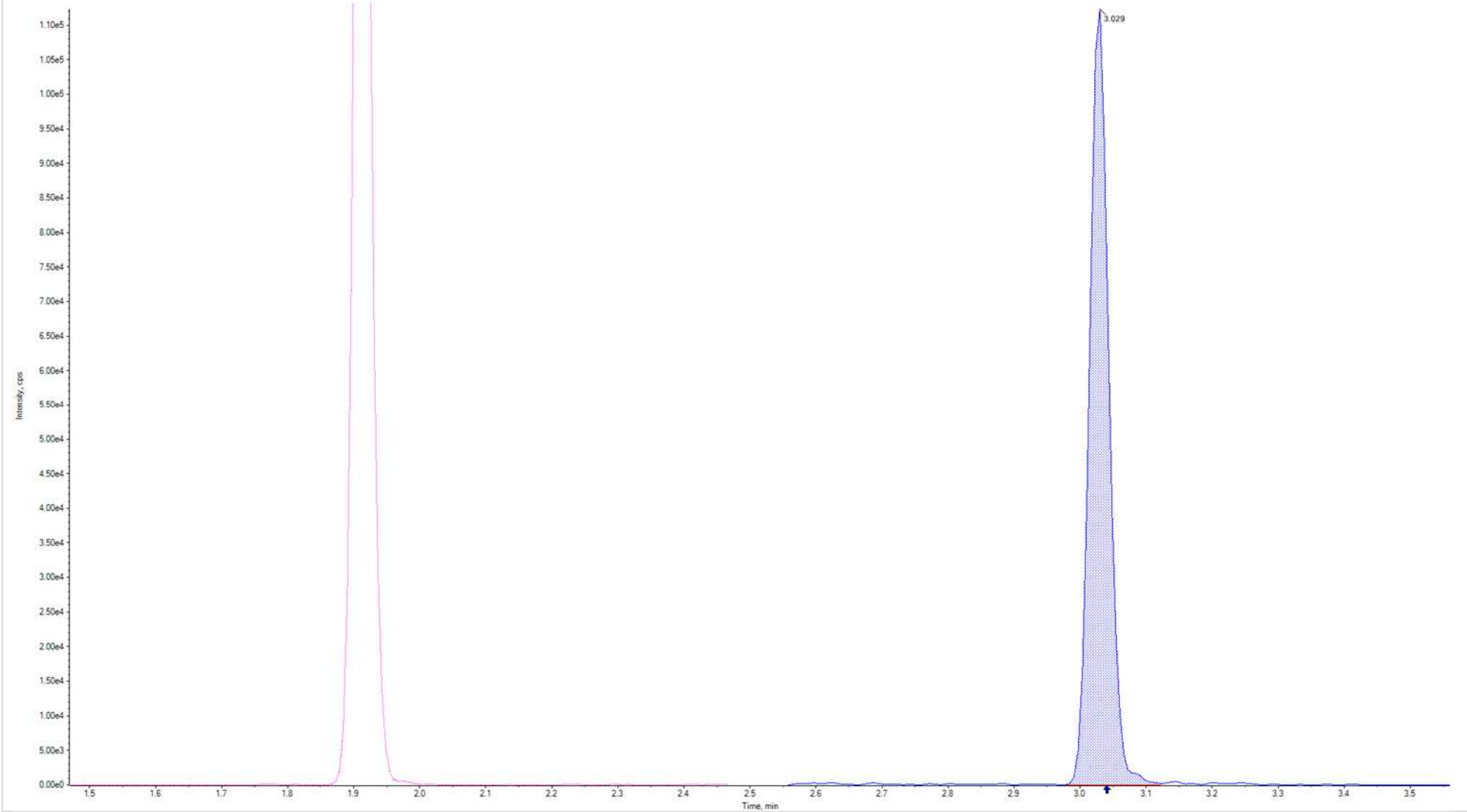
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

3:3FTCA_2
Sample: IA1633STD-.2 S/N:39.3 Points Across peak:22



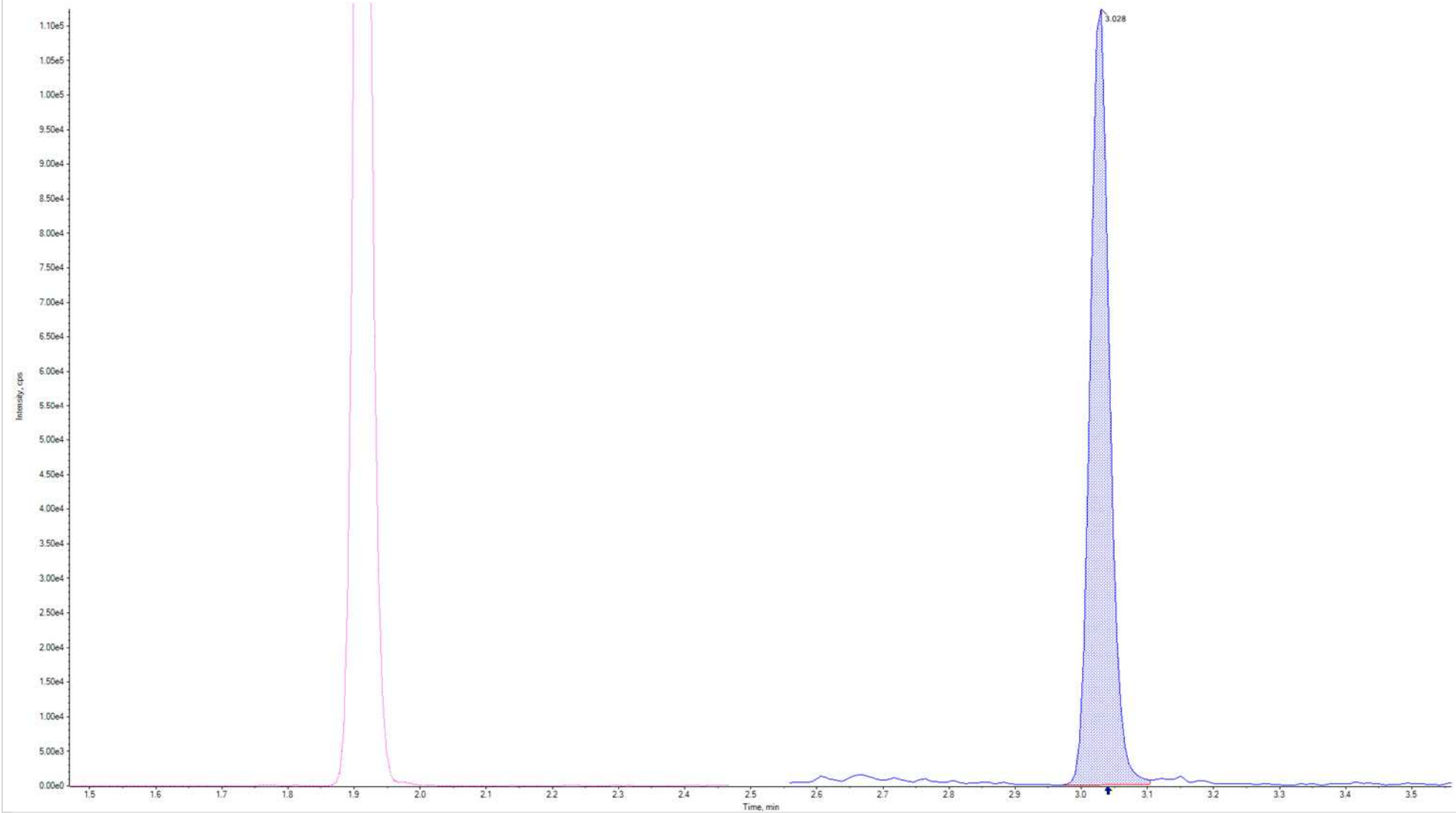
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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5:3FTCA
Sample: IA1633STD-.2 S/N:2533.8 Points Across peak:25



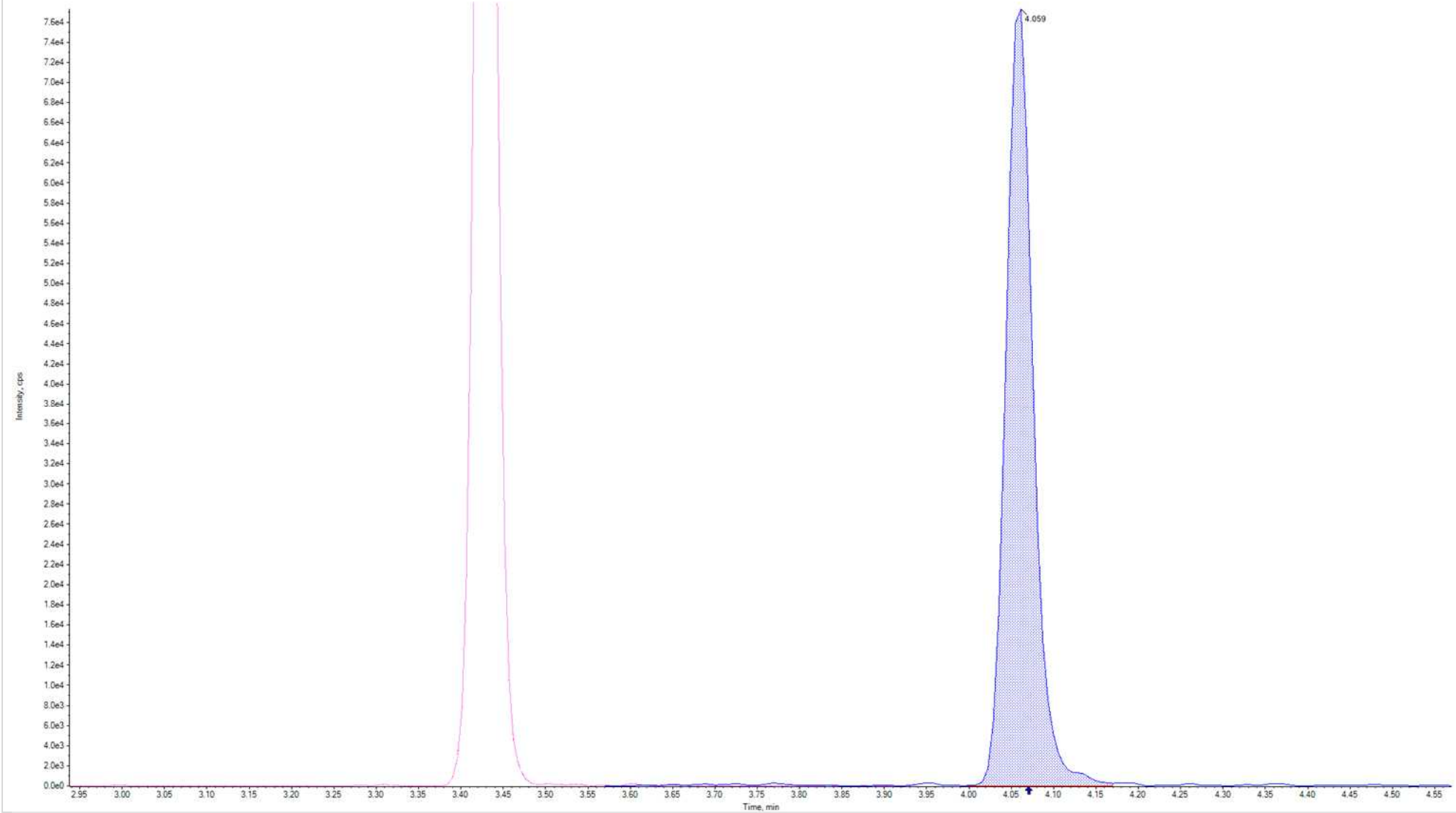
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

5:3FTCA_2
Sample: IA1633STD-.2 S/N:1670.6 Points Across peak:23



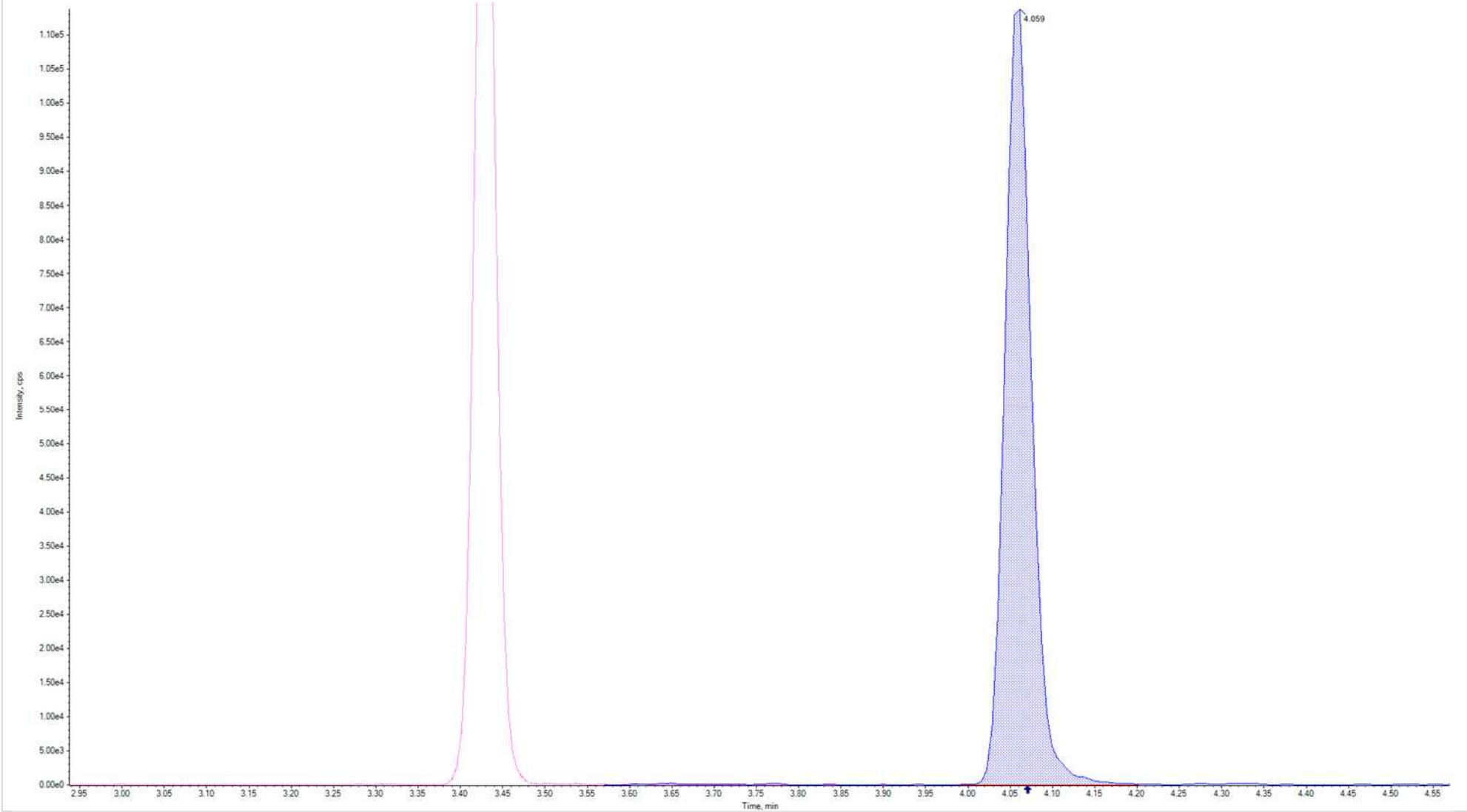
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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7:3FTCA
Sample: IA1633STD-.2 S/N:2130.4 Points Across peak:28



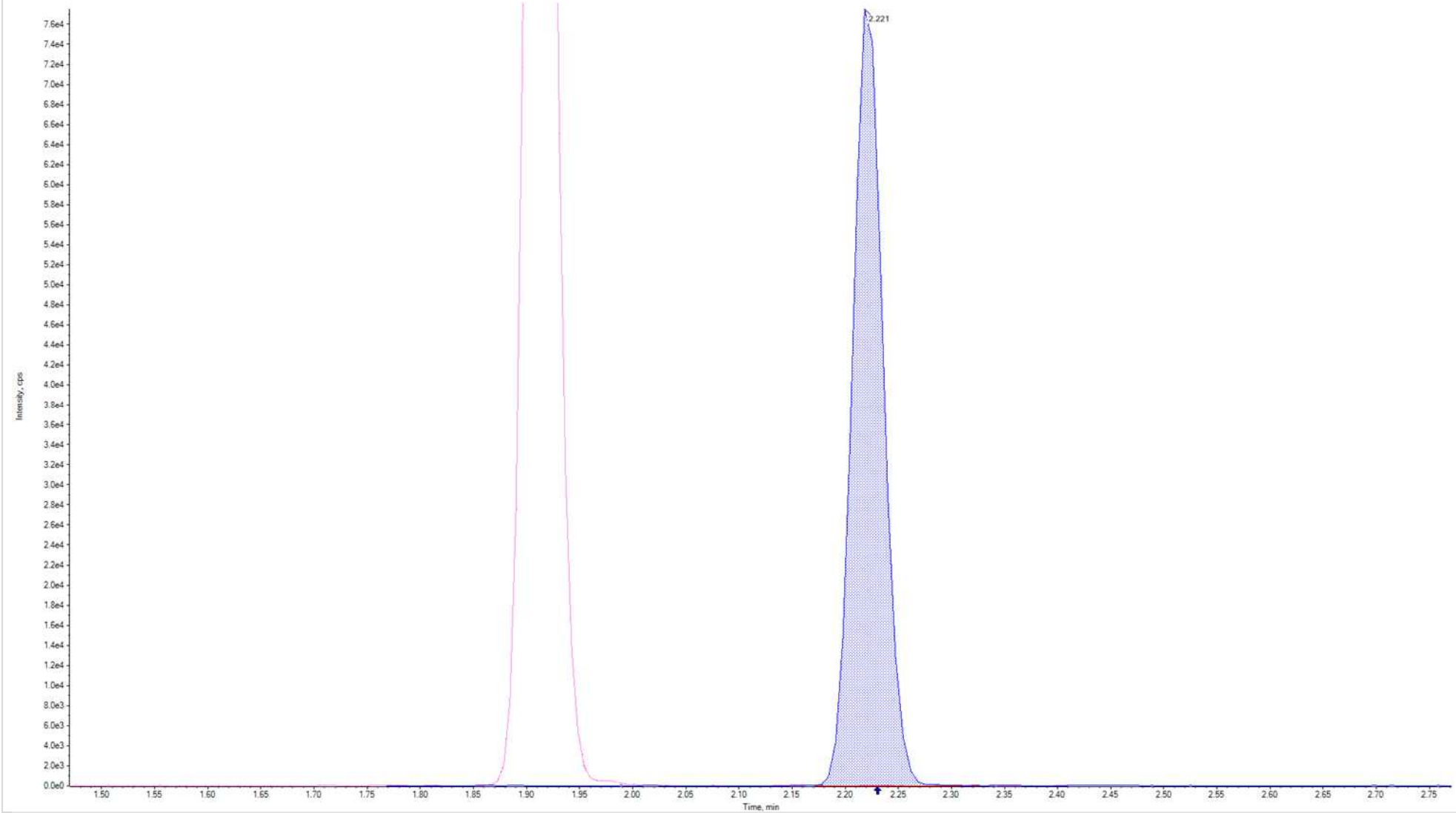
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

7:3FTCA_2
Sample: IA1633STD-.2 S/N:3137.5 Points Across peak:36



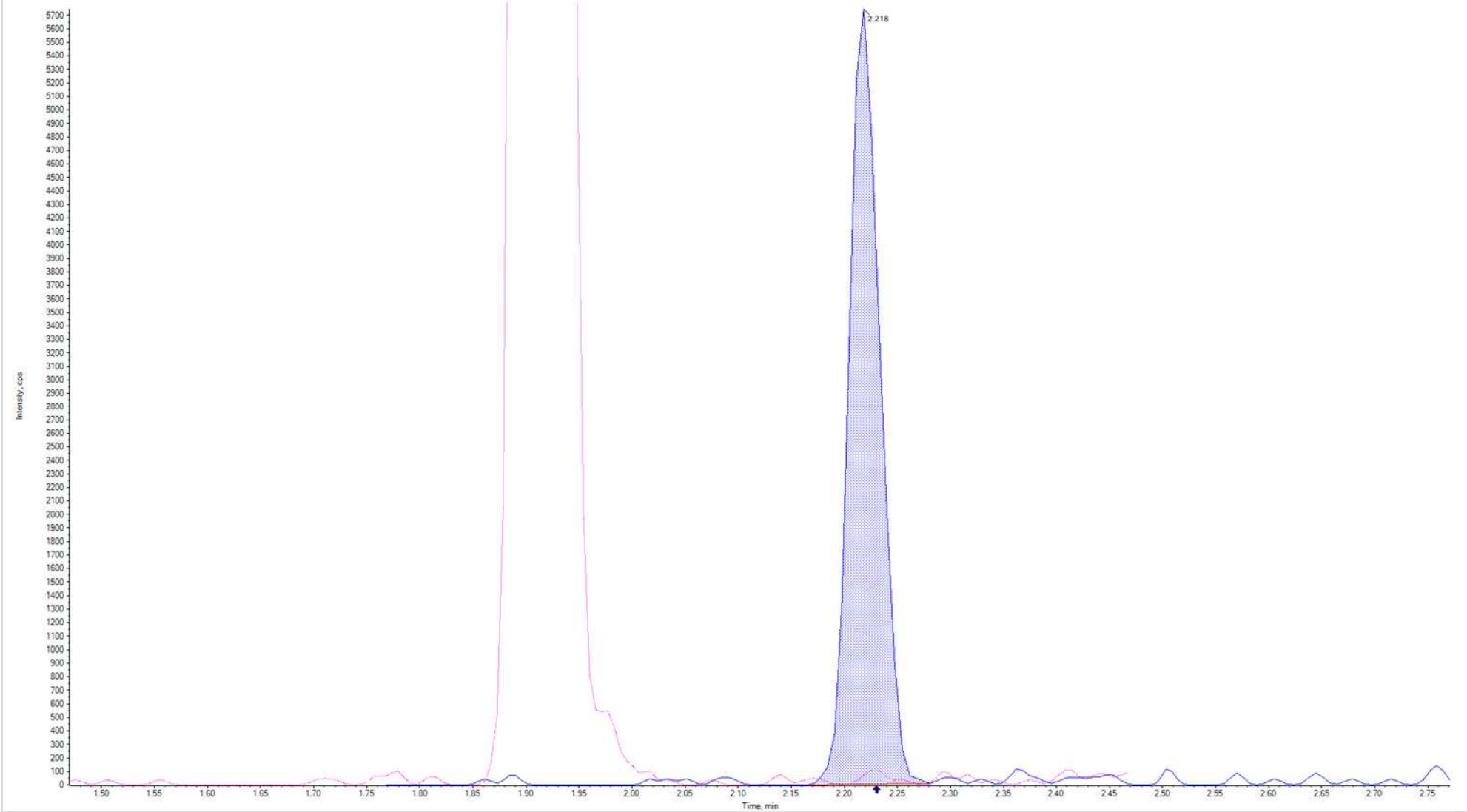
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Alpha Analytical LLC
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PFEESA
Sample: IA1633STD-.2 S/N:1748.6 Points Across peak:25



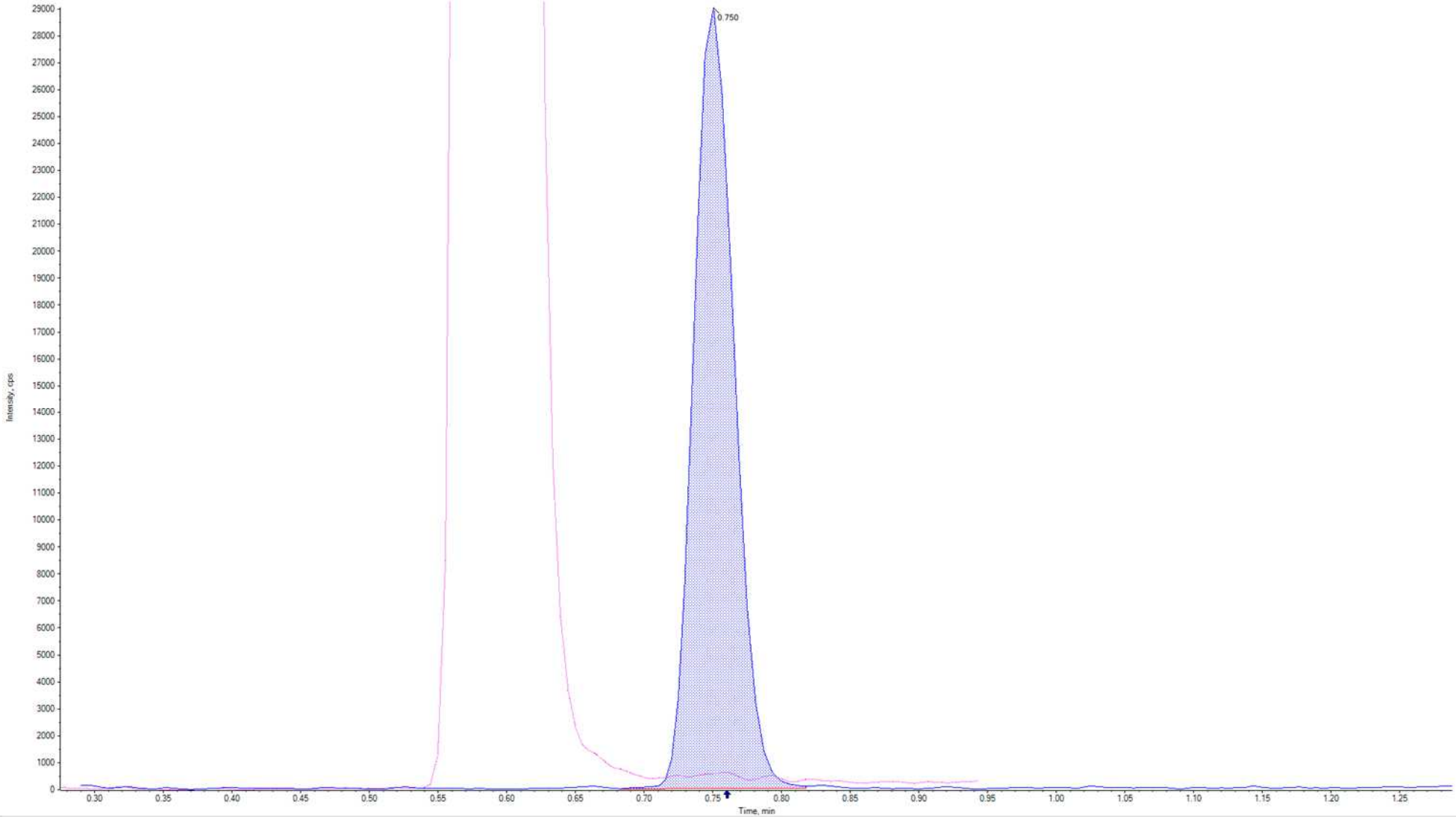
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Alpha Analytical LLC
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PFEESA_2
Sample: IA1633STD-.2 S/N:129.5 Points Across peak:19



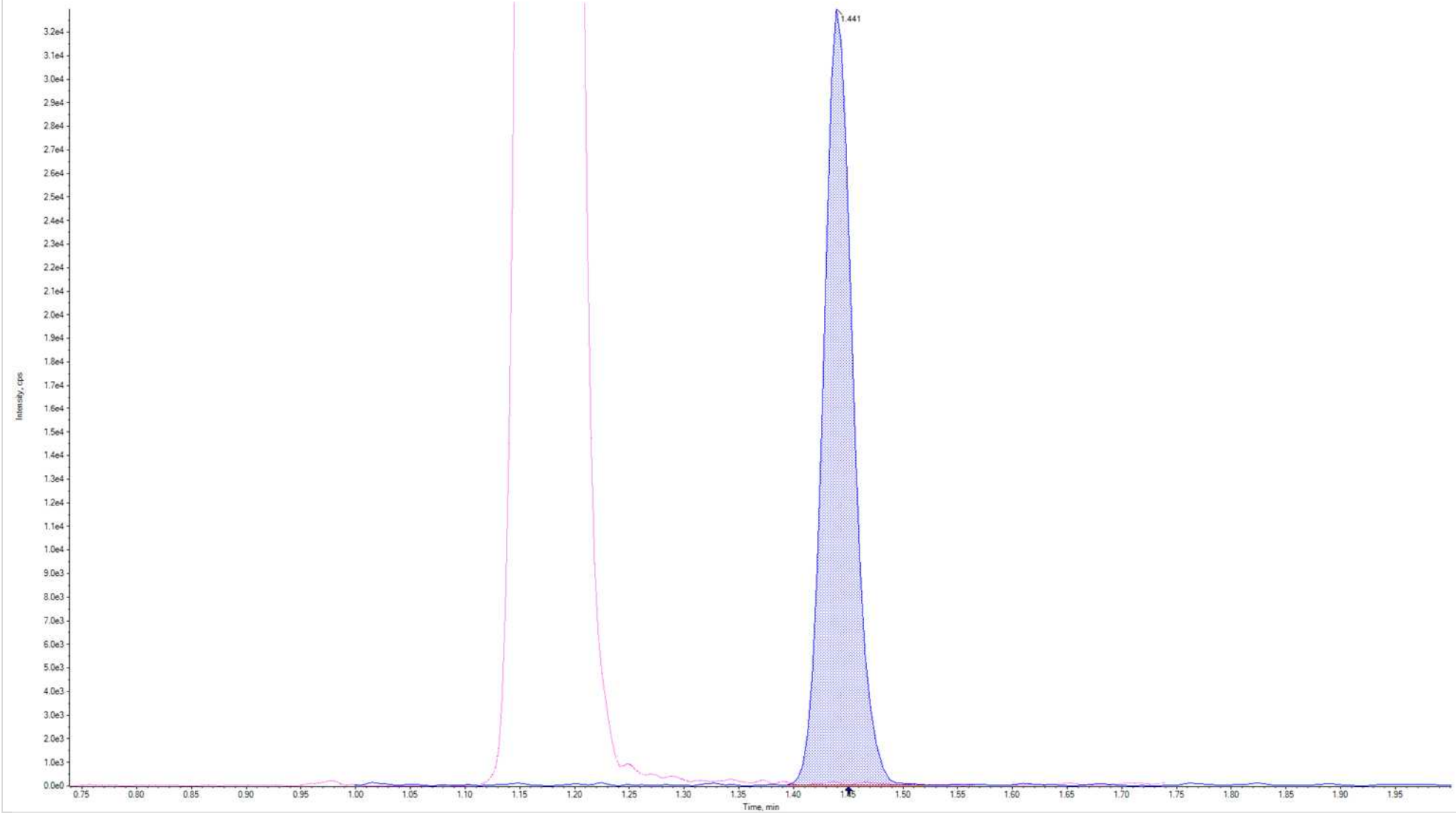
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFMPA
Sample: IA1633STD-.2 S/N:2611.8 Points Across peak:26



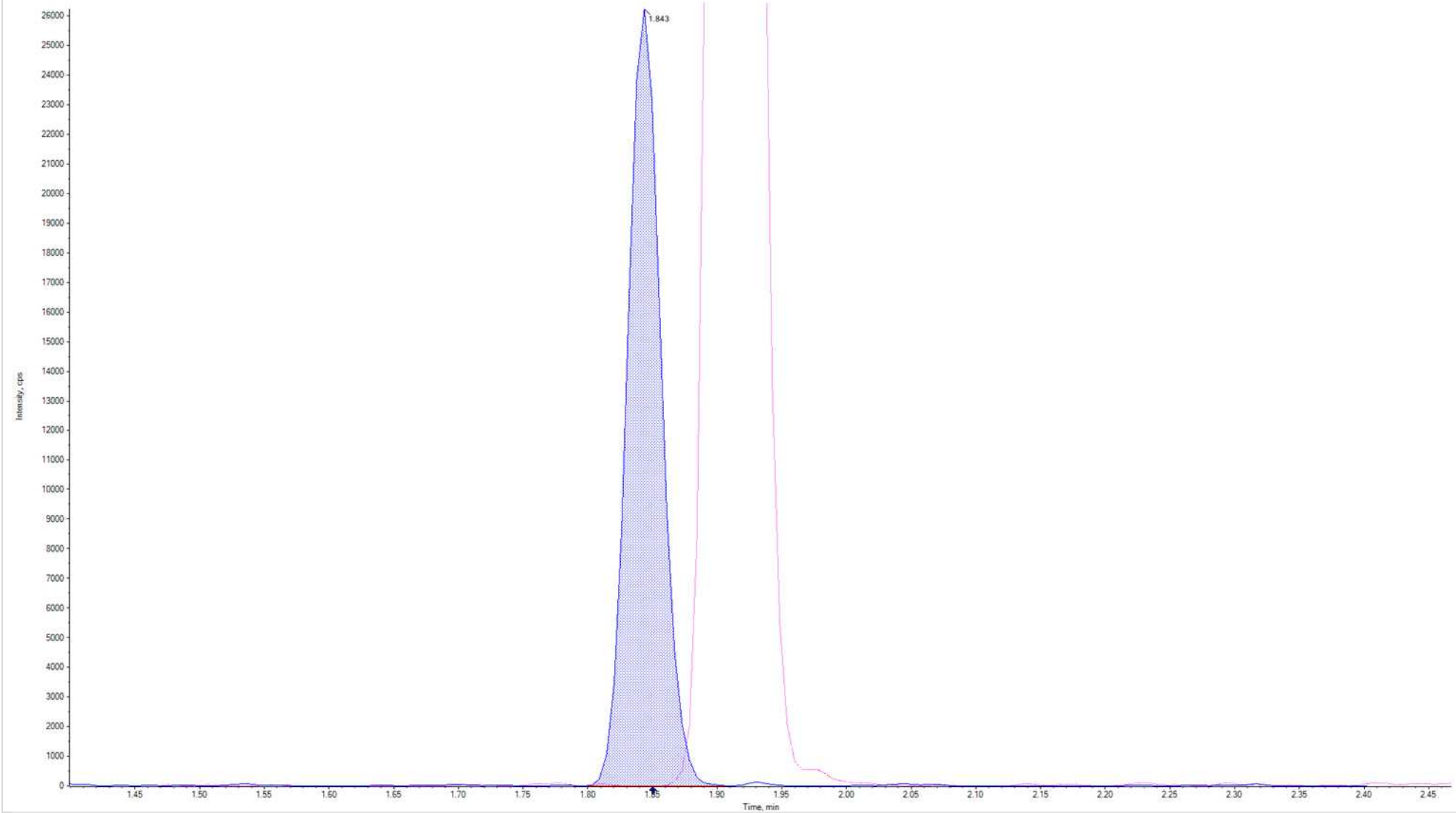
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFMBA
Sample: IA1633STD-.2 S/N:1899.7 Points Across peak:30



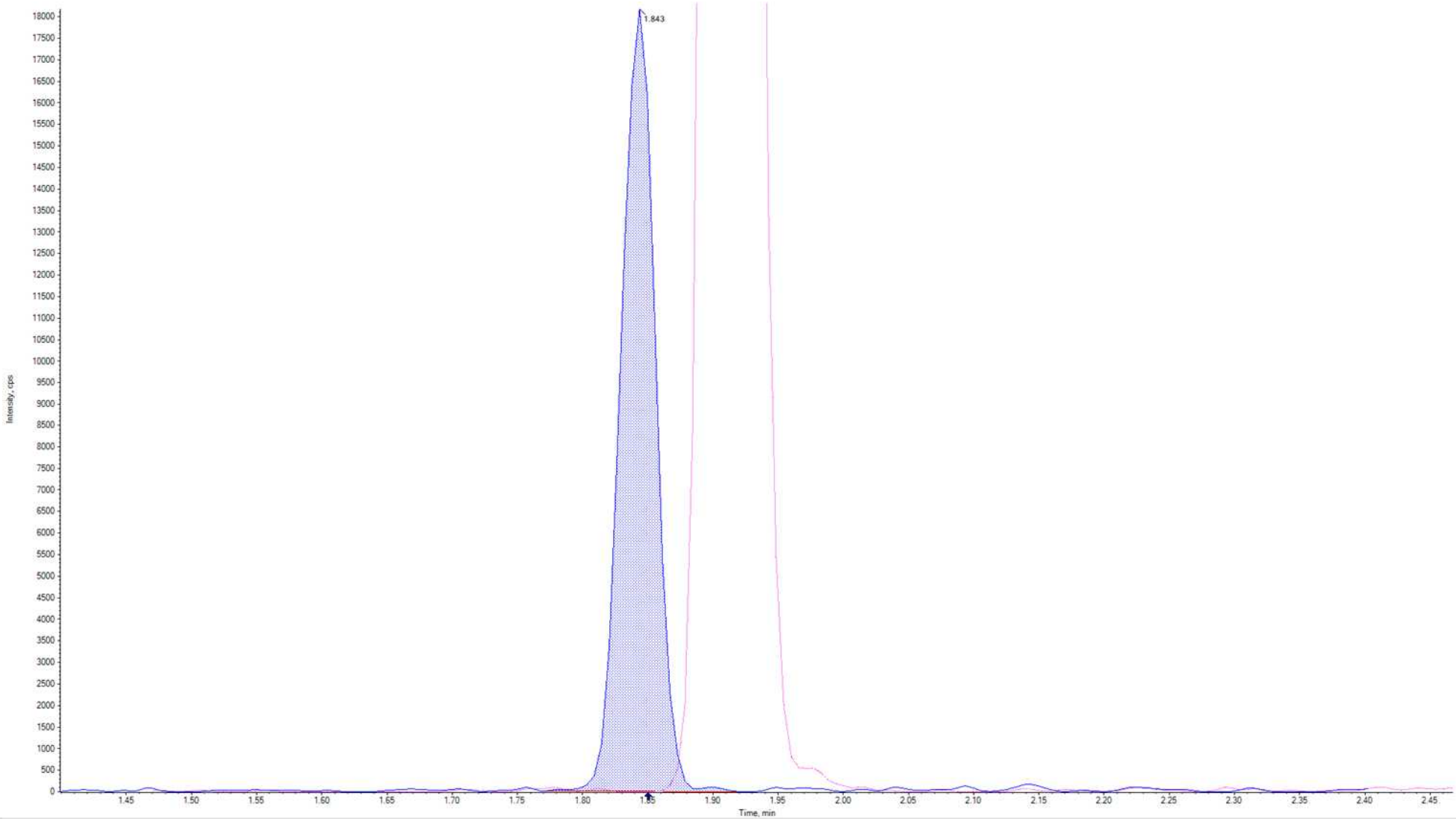
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NFDHA
Sample: IA1633STD-.2 S/N:723.1 Points Across peak:20



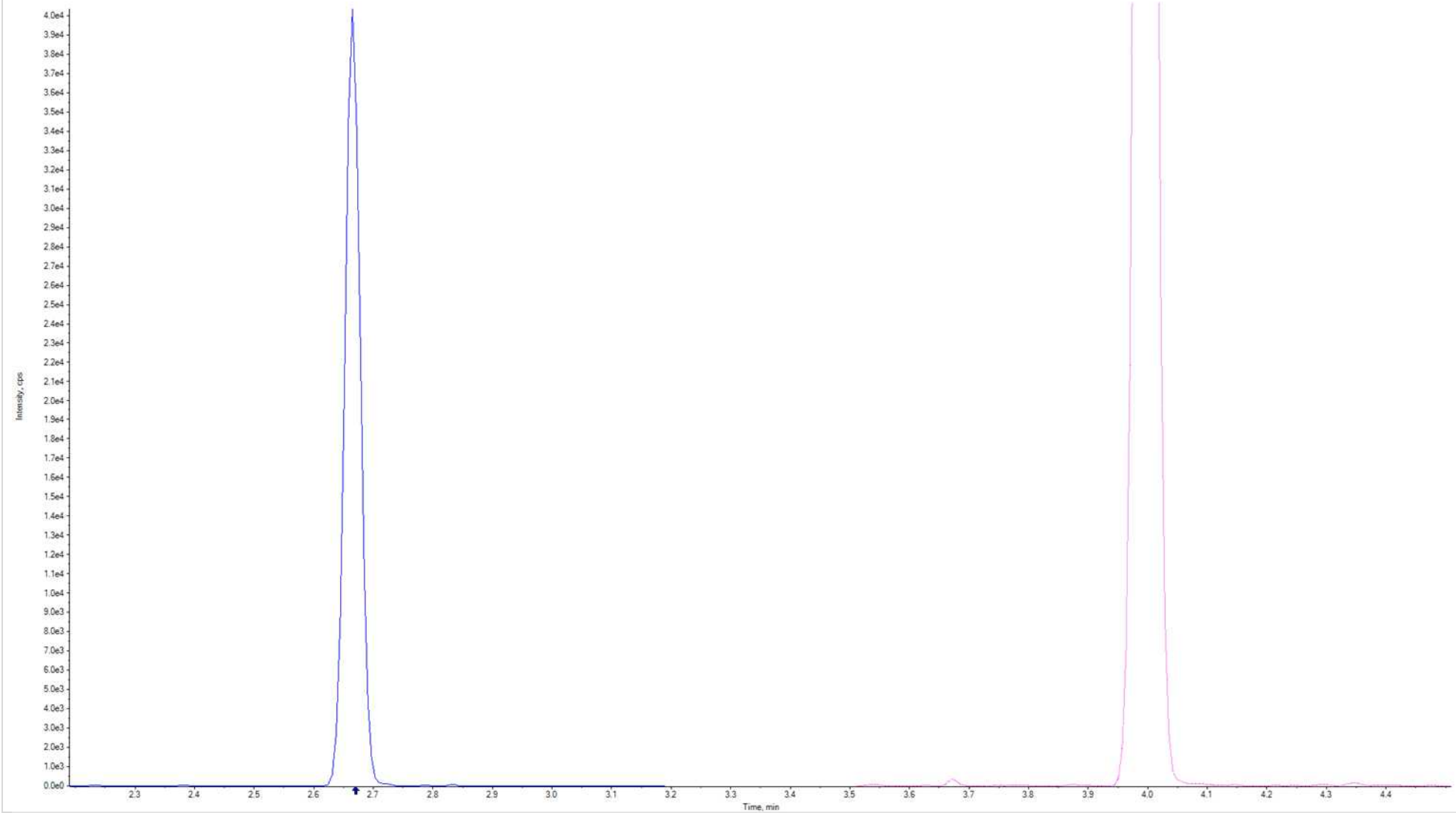
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Alpha Analytical LLC
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NFDHA_2
Sample: IA1633STD-.2 S/N:500.8 Points Across peak:28



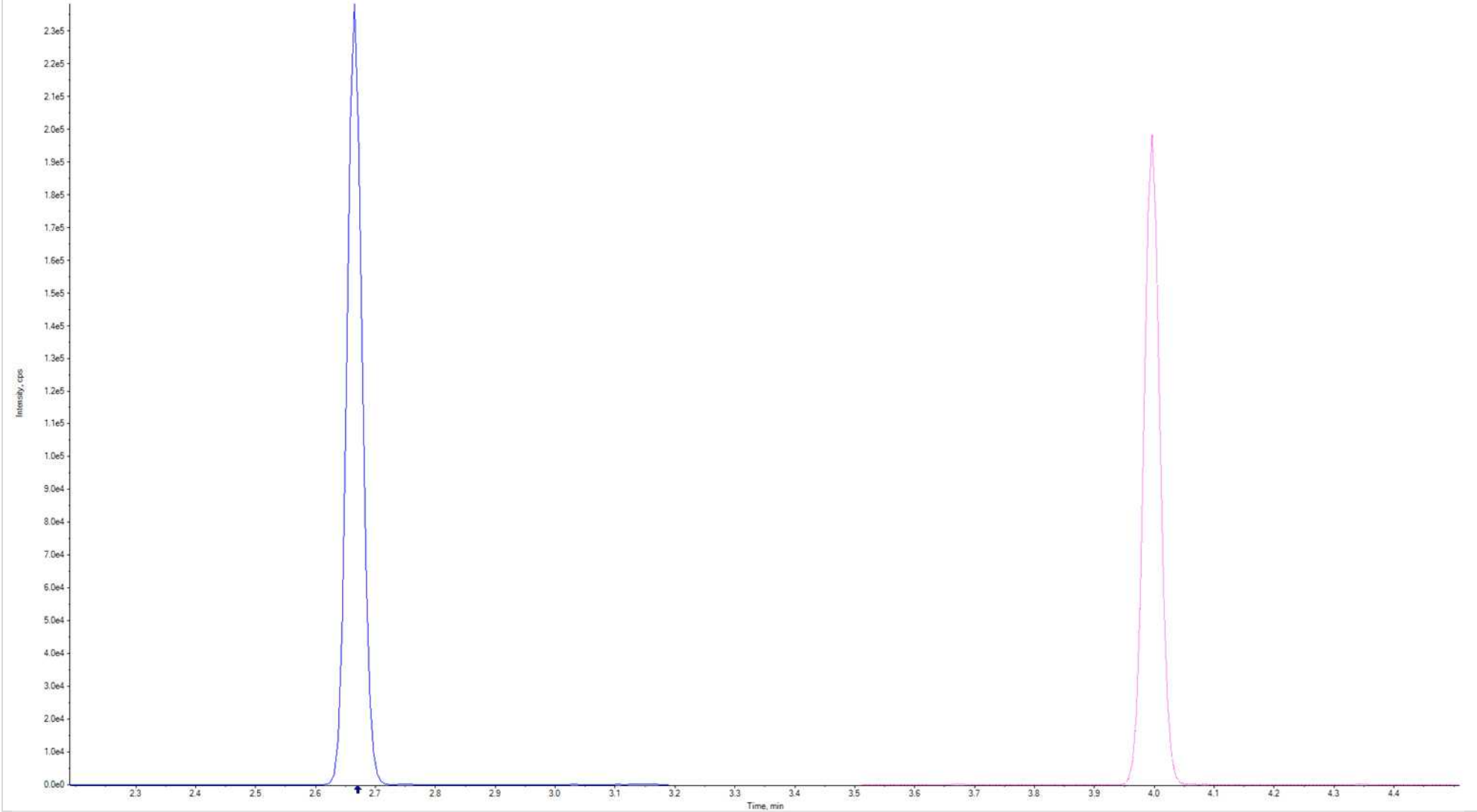
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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TDCA
Sample: IA1633STD-.2 S/N:N/A Points Across peak:N/A



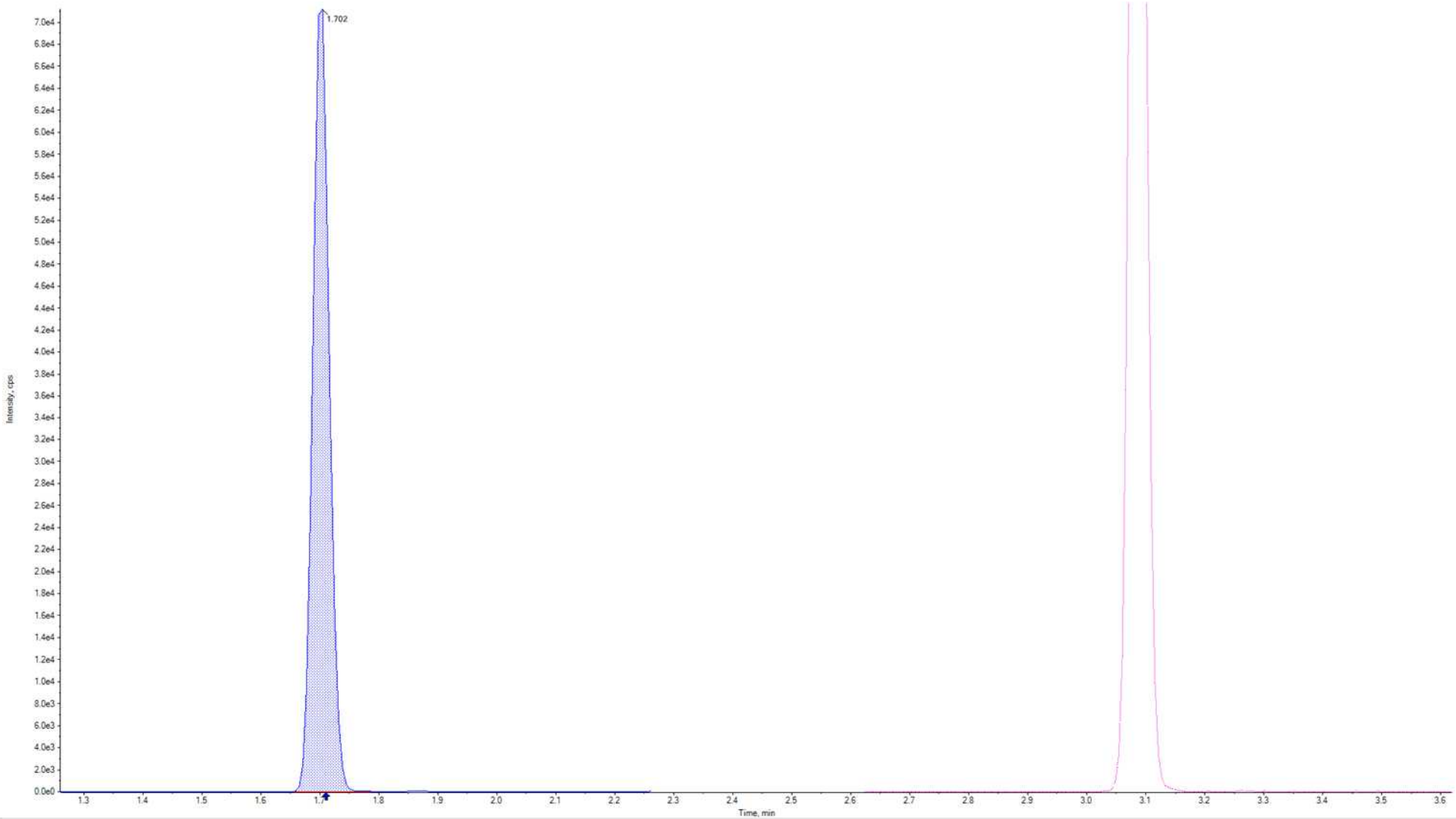
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

TDCA_2
Sample: IA1633STD-.2 S/N:N/A Points Across peak:N/A



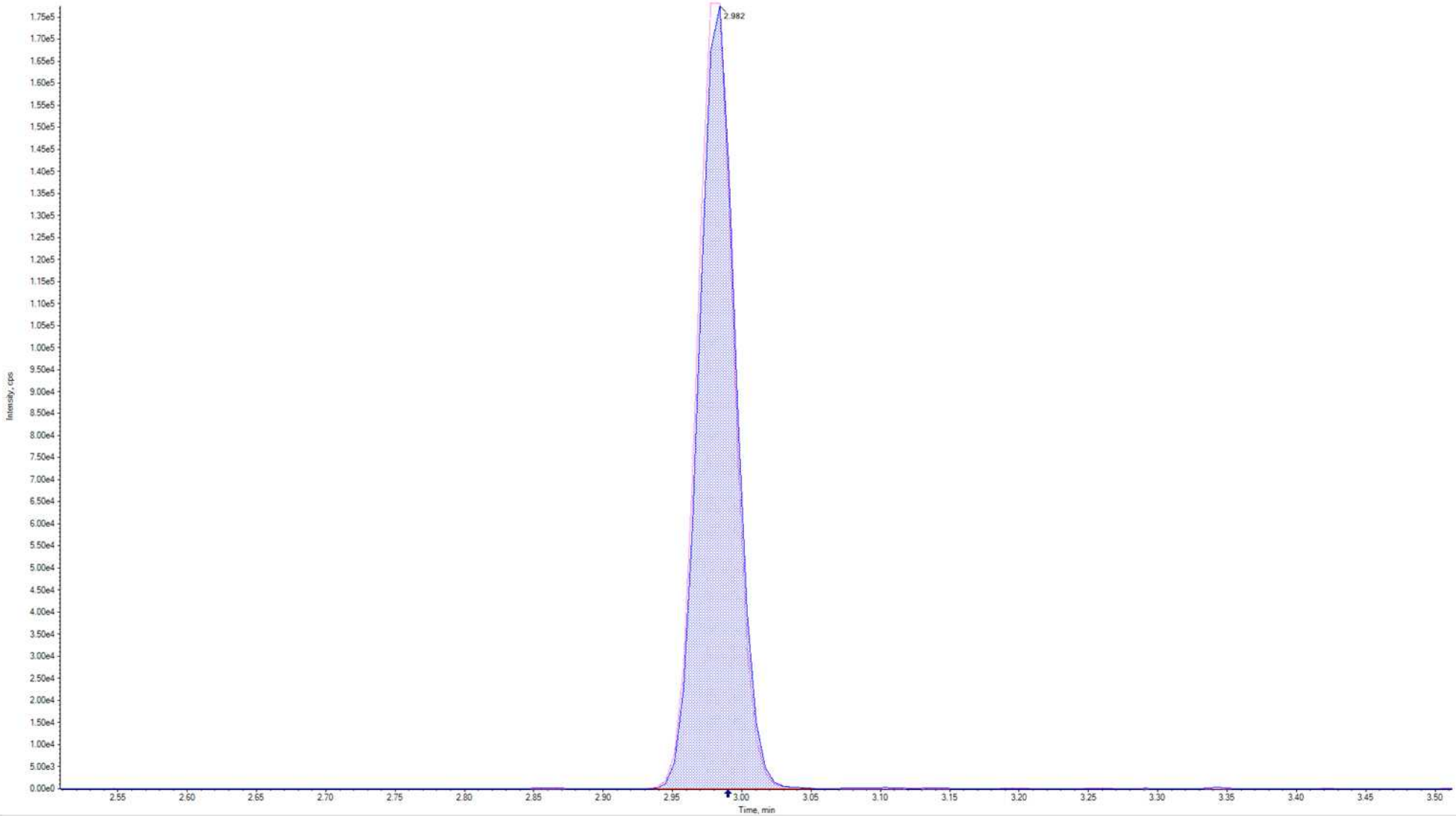
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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13C2D4-4:2FTS
Sample: IA1633STD-.2 S/N:2676.9 Points Across peak:27

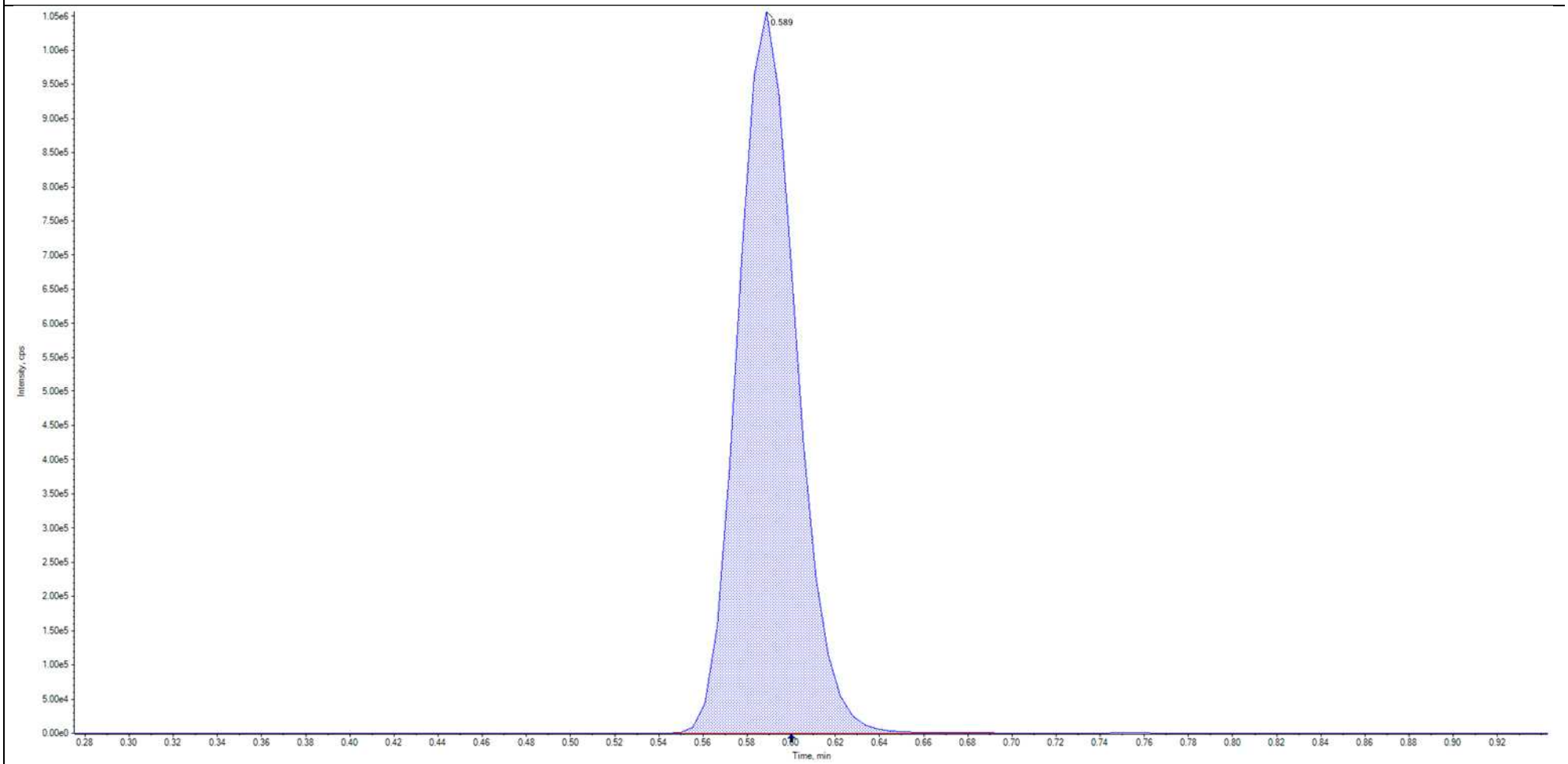


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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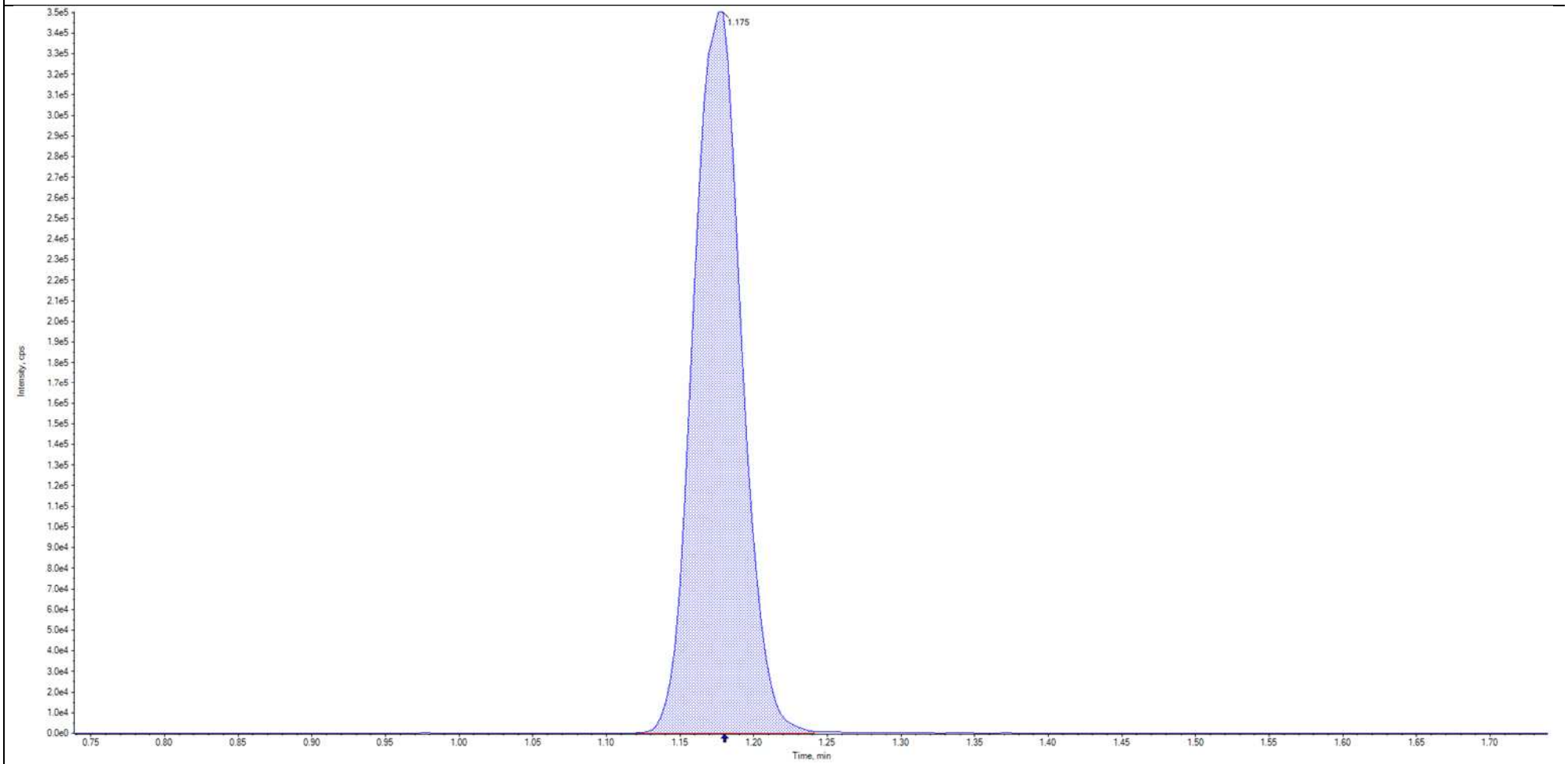
13C2-PFOA
Sample: IA1633STD-.2 S/N:4003.4 Points Across peak:24



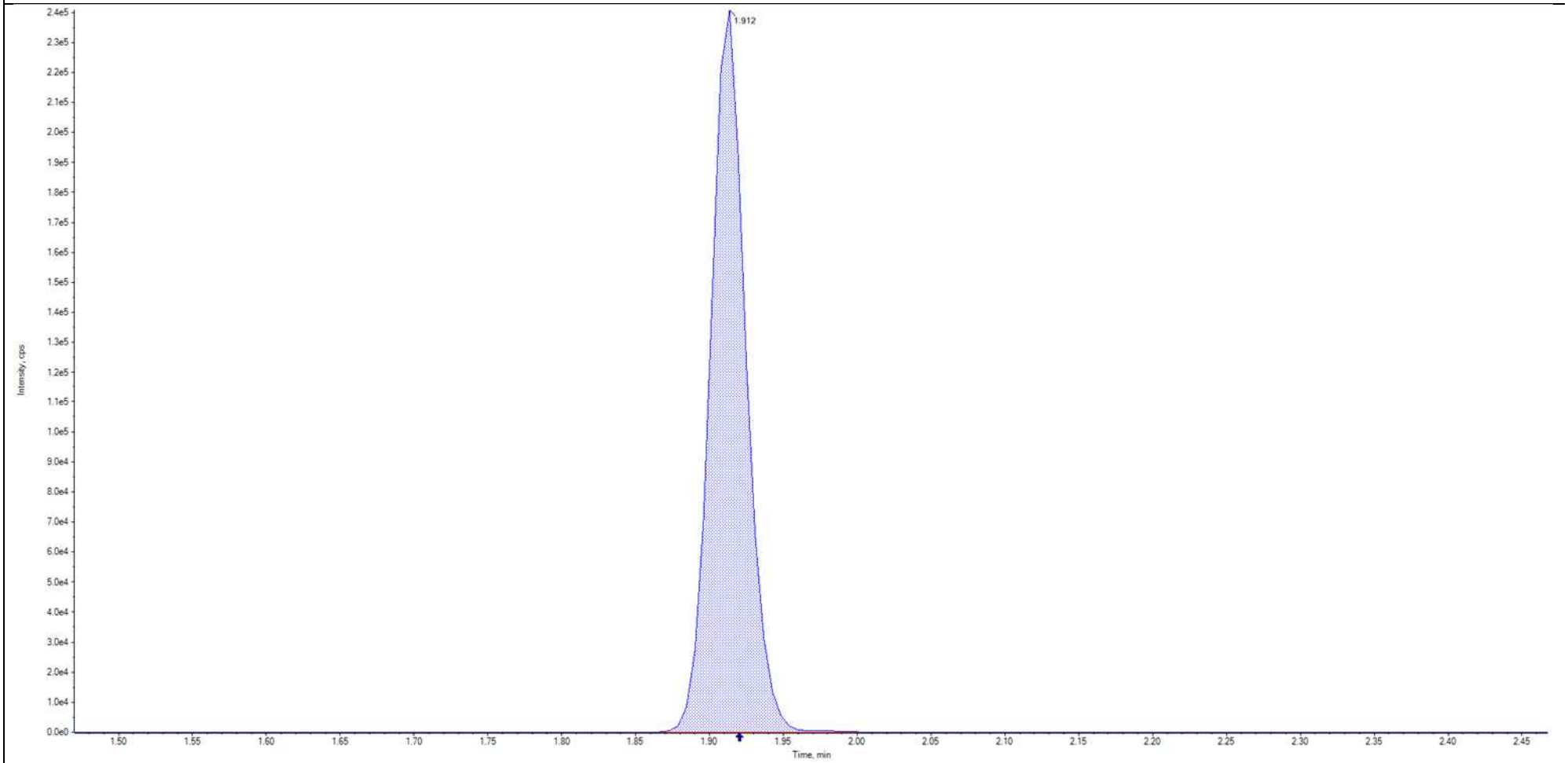
13C4-PFBA
Sample: IA1633STD-.2



13C5-PFPeA
Sample: IA1633STD-.2

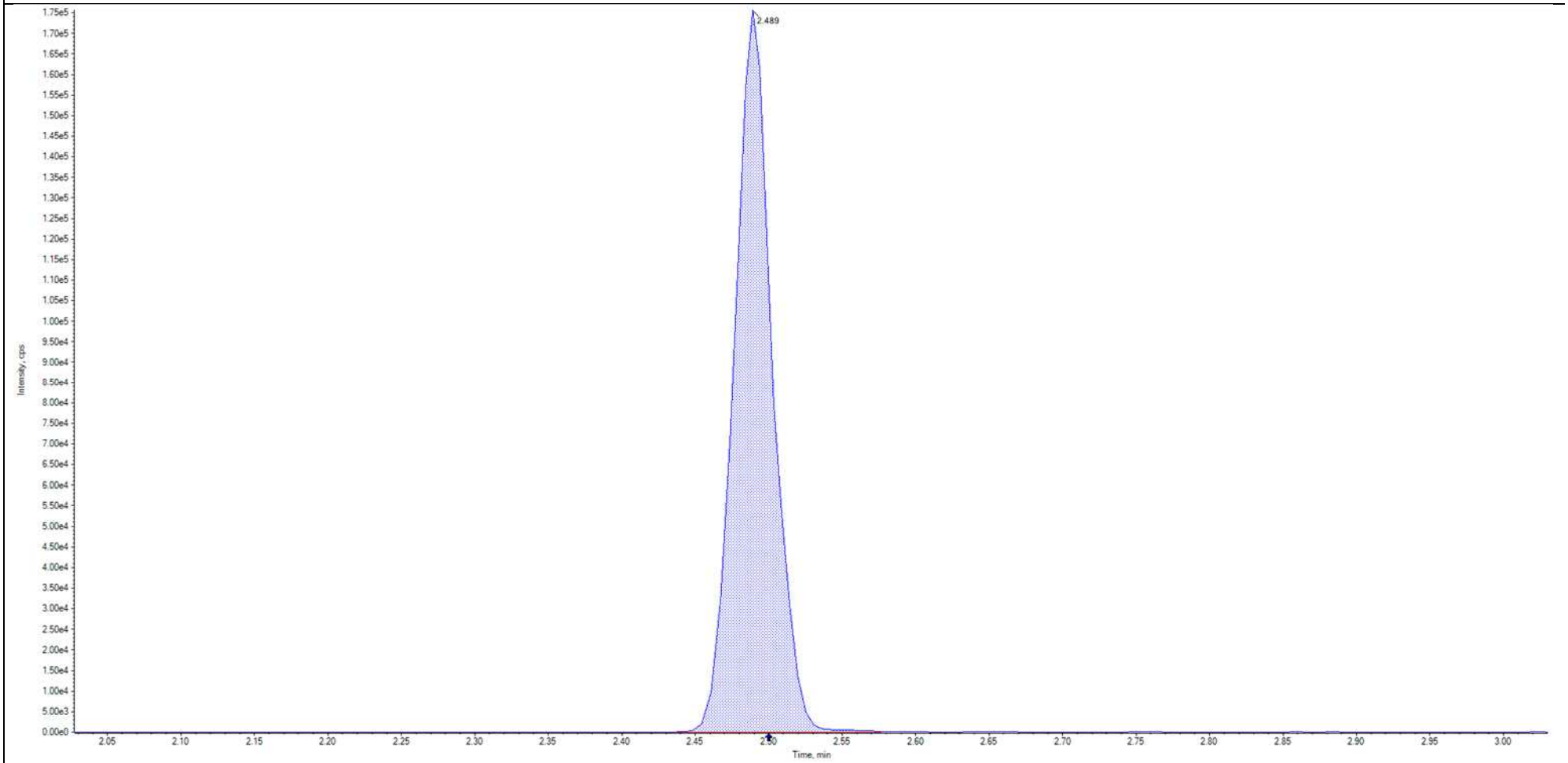


13C5-PFHxA
Sample: IA1633STD-.2

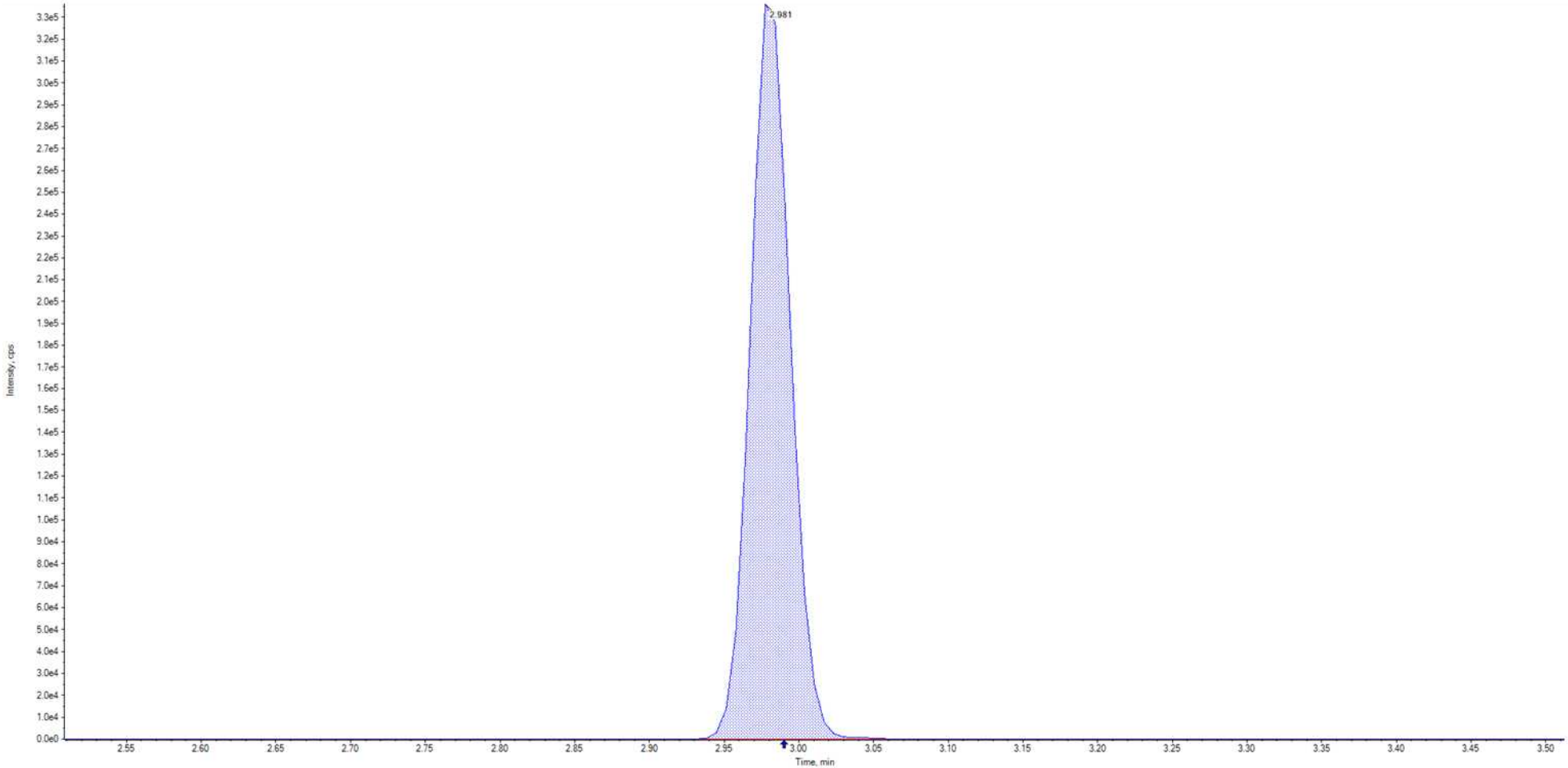


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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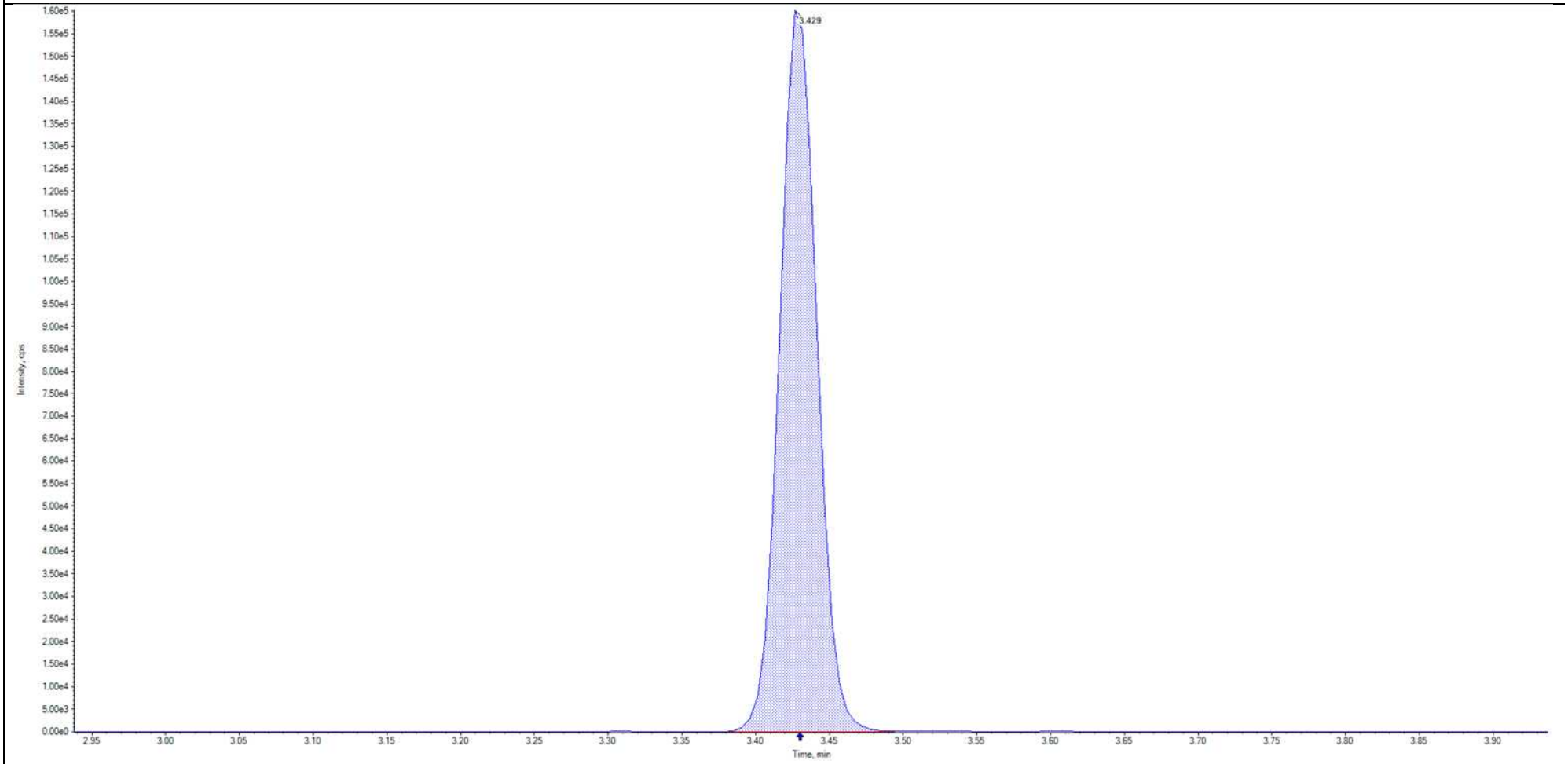
13C4-PFHpA
Sample: IA1633STD-.2



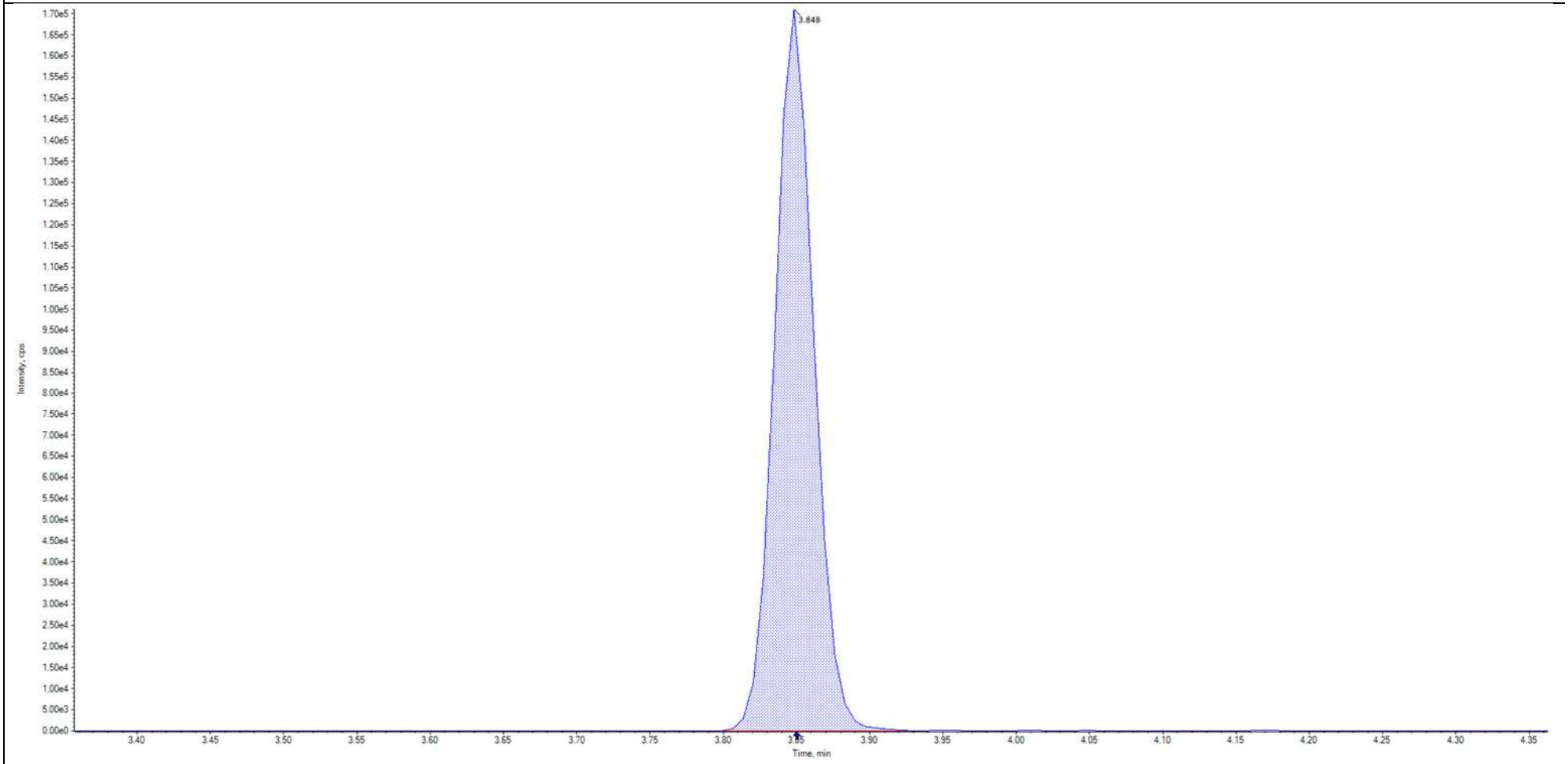
13C8-PFOA
Sample: IA1633STD-.2



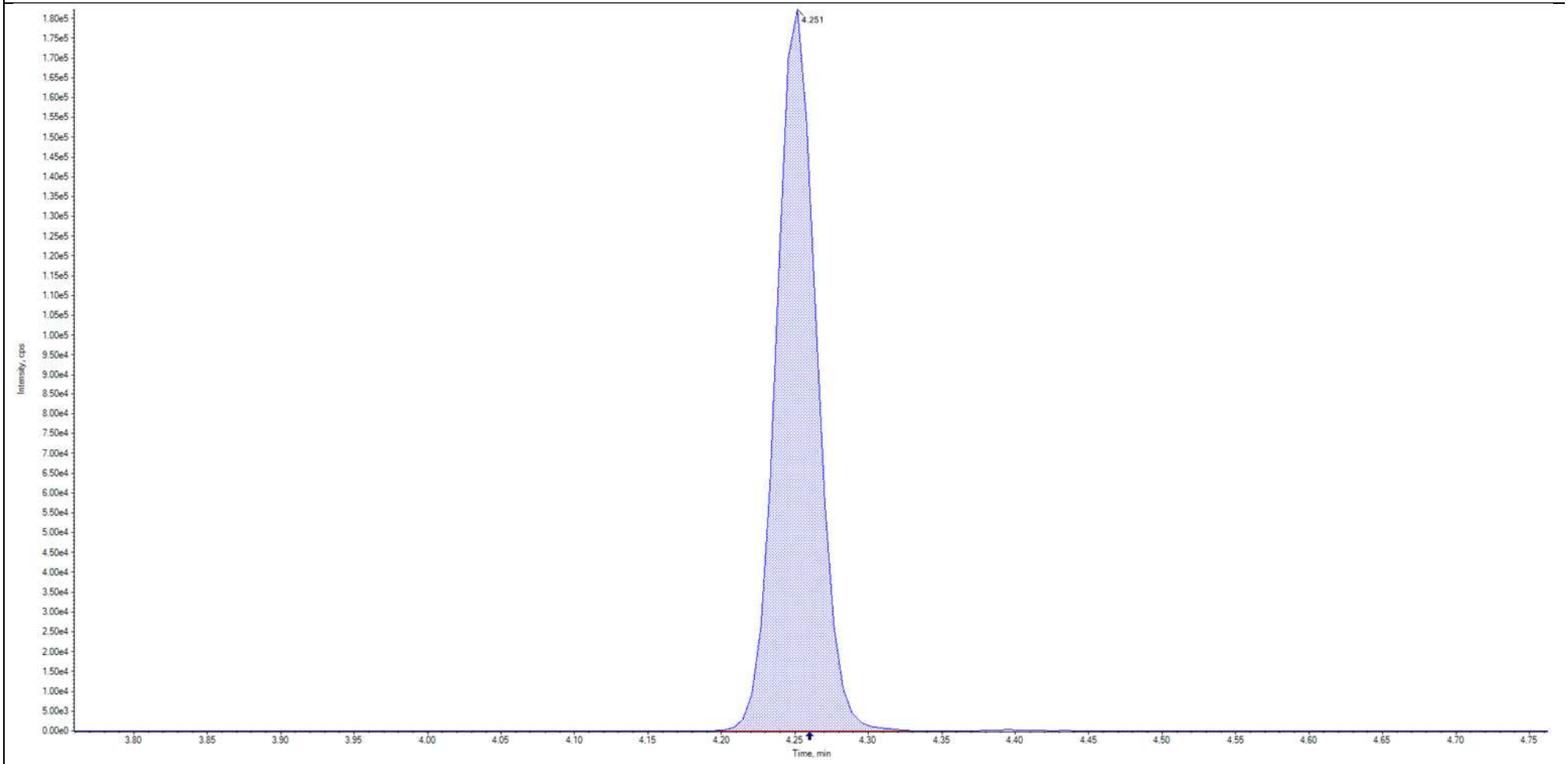
13C9-PFNA
Sample: IA1633STD-.2



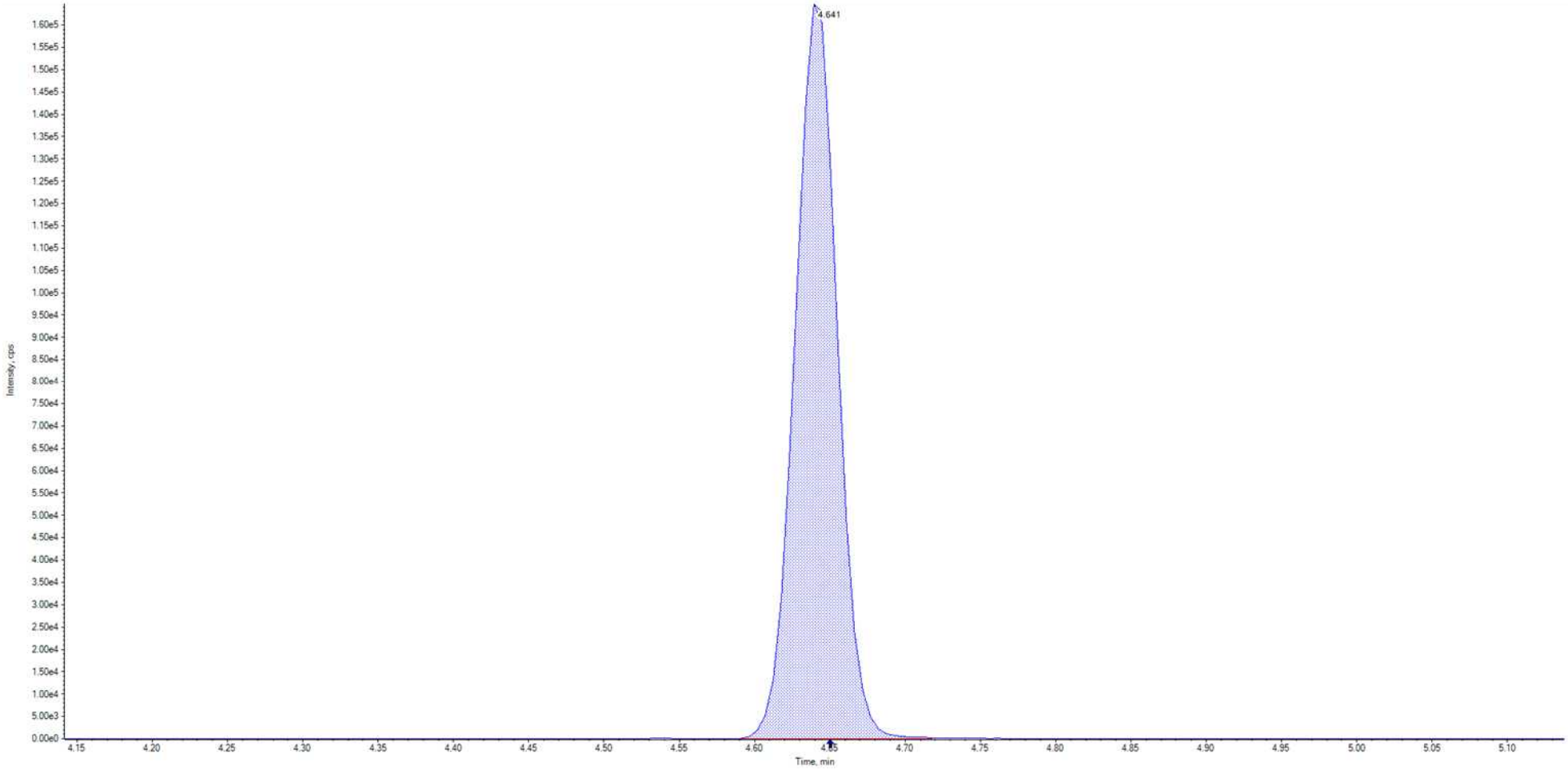
13C6-PFDA
Sample: IA1633STD-.2



13C7-PFUnA
Sample: IA1633STD-.2

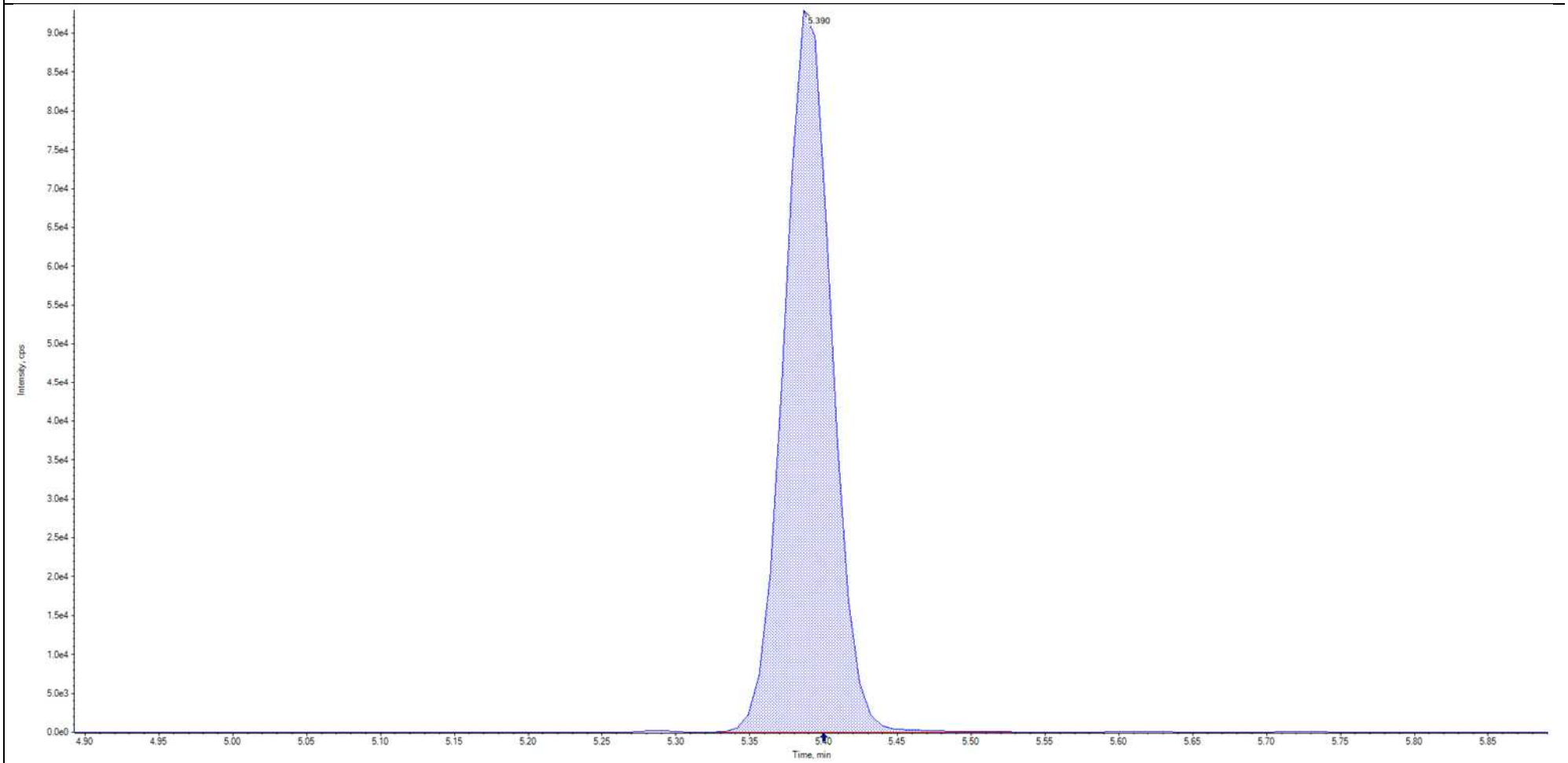


13C2-PFDoA
Sample: IA1633STD-.2

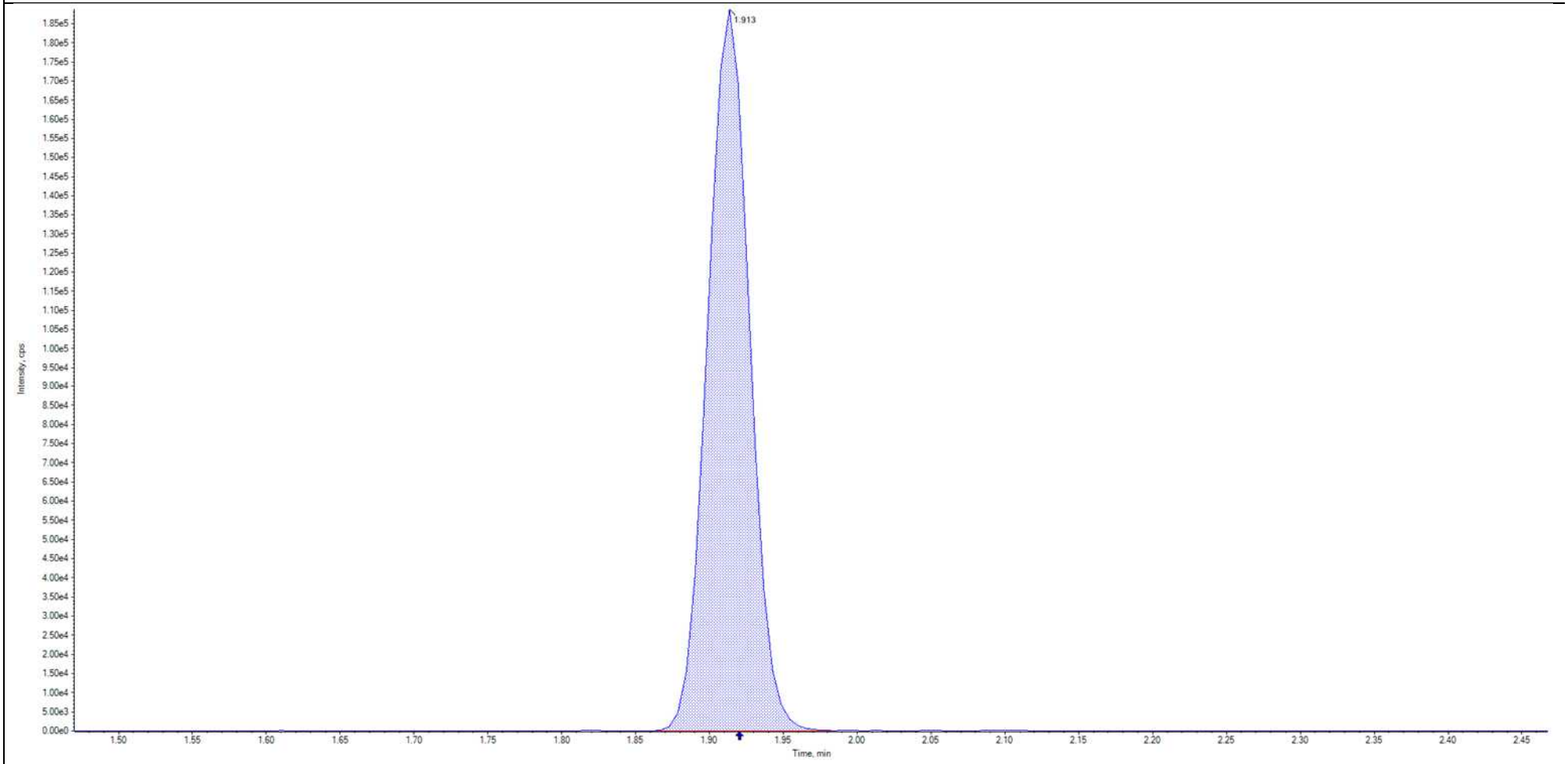


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

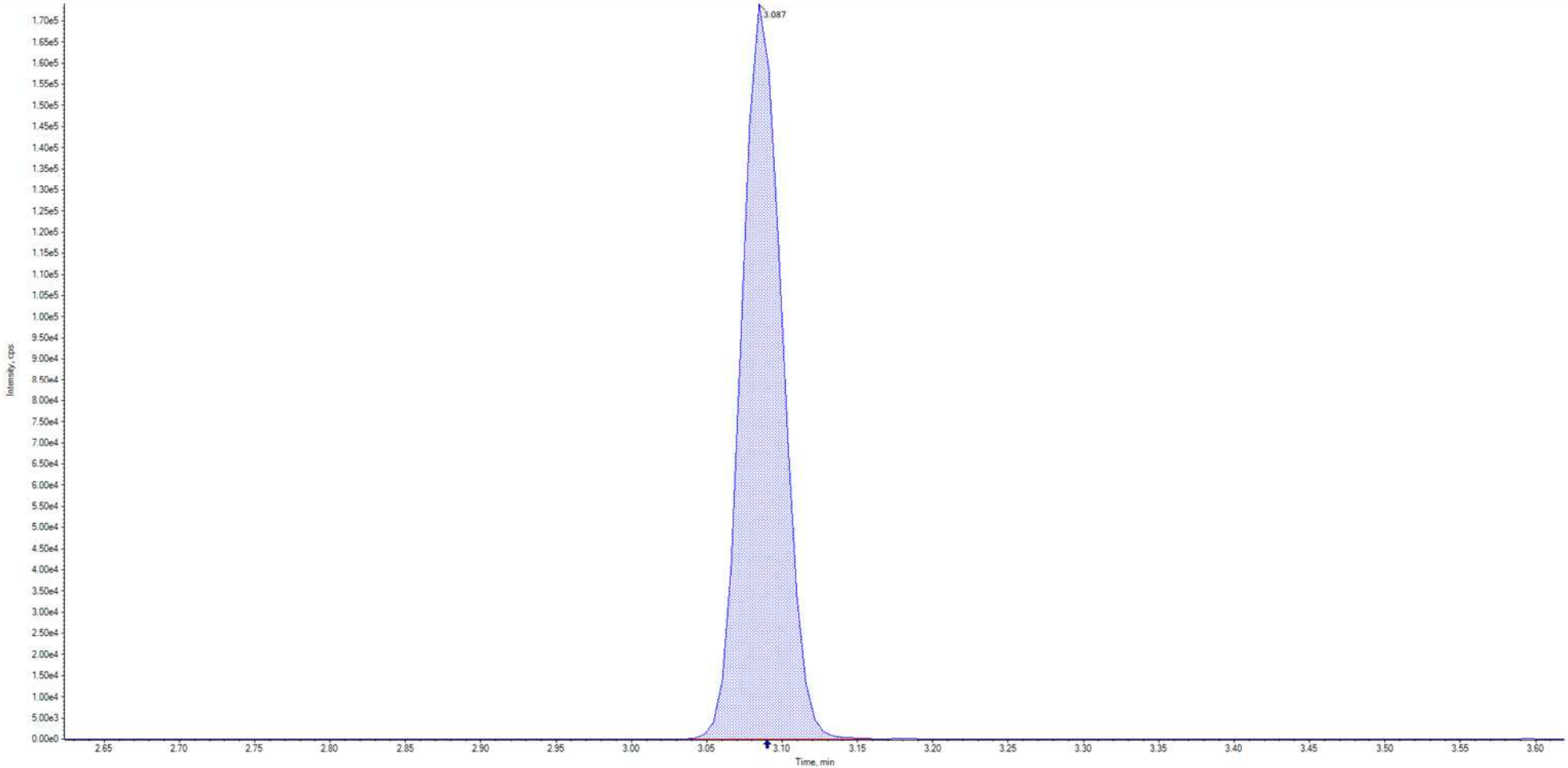
13C2-PFTeDA
Sample: IA1633STD-.2



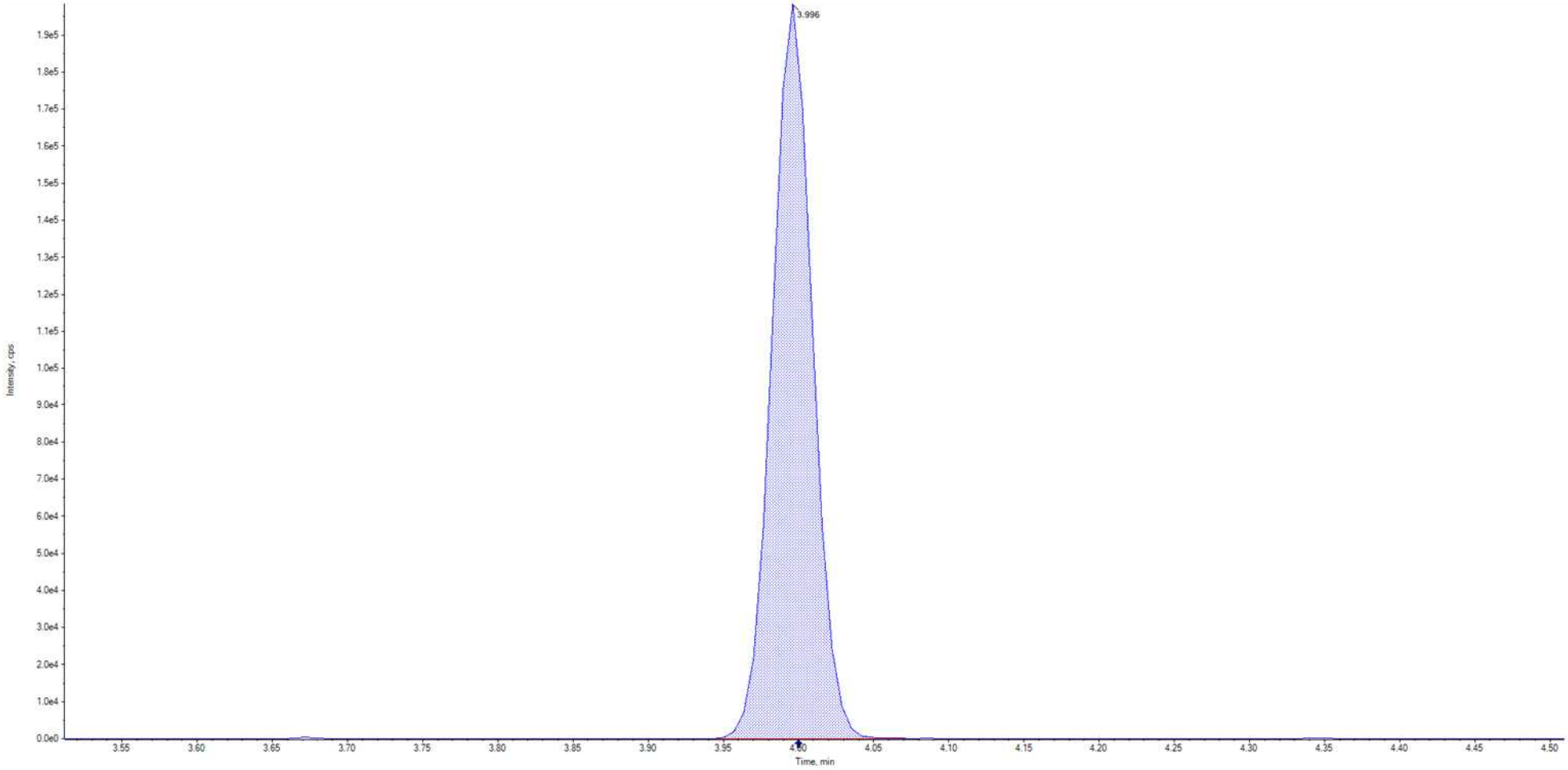
13C3-PFBS
Sample: IA1633STD-.2



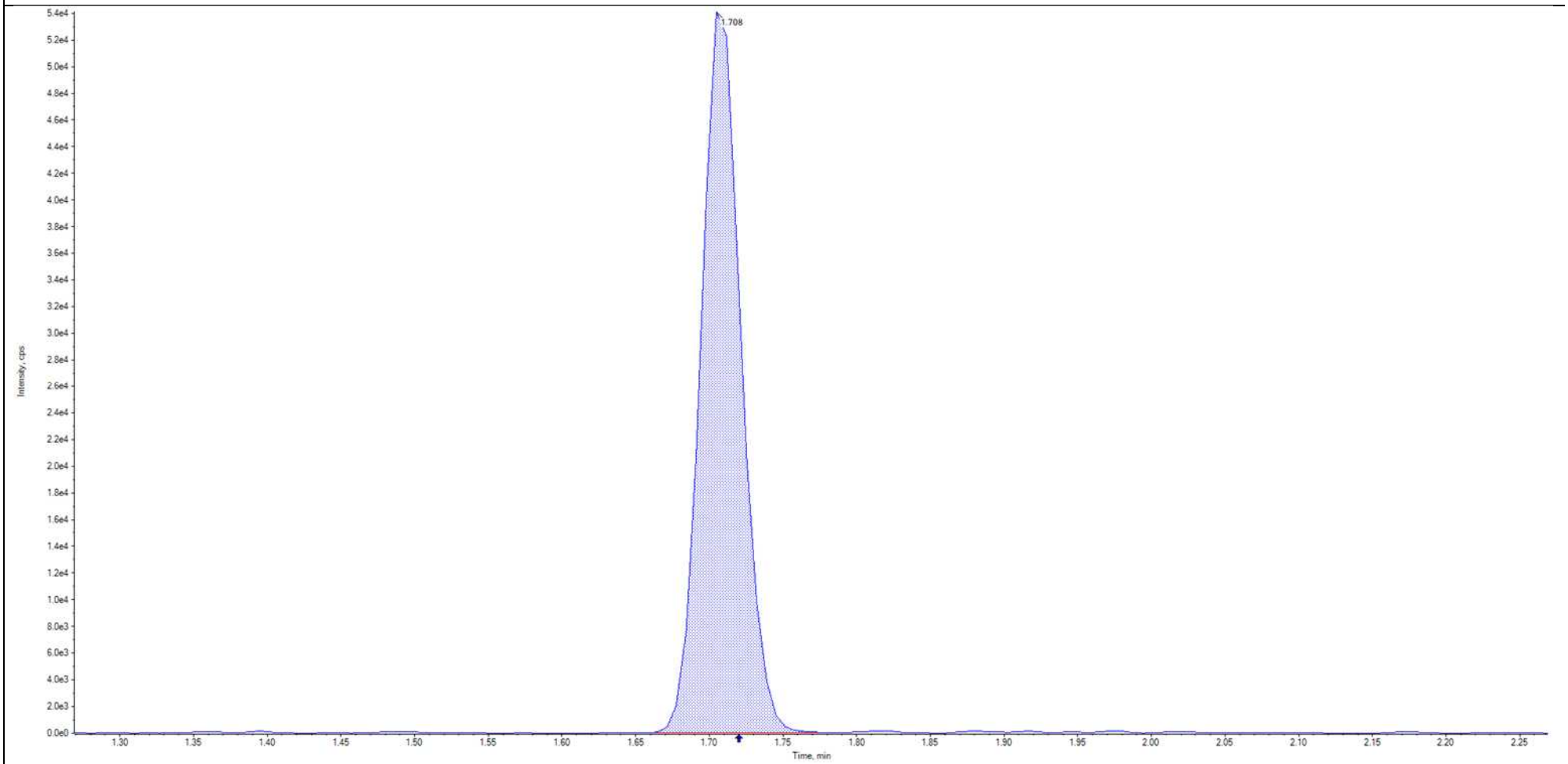
13C3-PFHxS
Sample: IA1633STD-.2



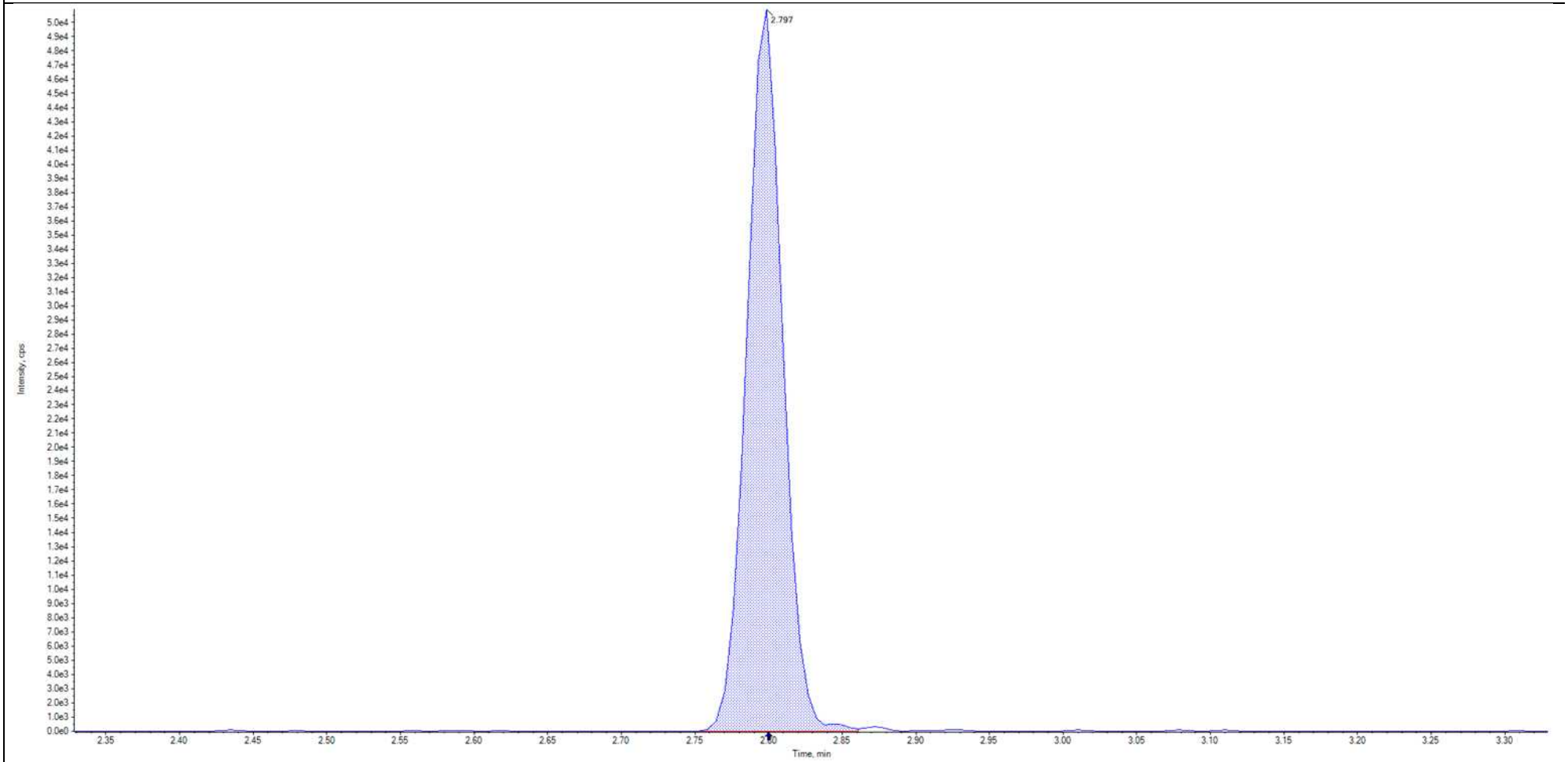
13C8-PFOS
Sample: IA1633STD-.2



13C2-4:2FTS
Sample: IA1633STD-.2

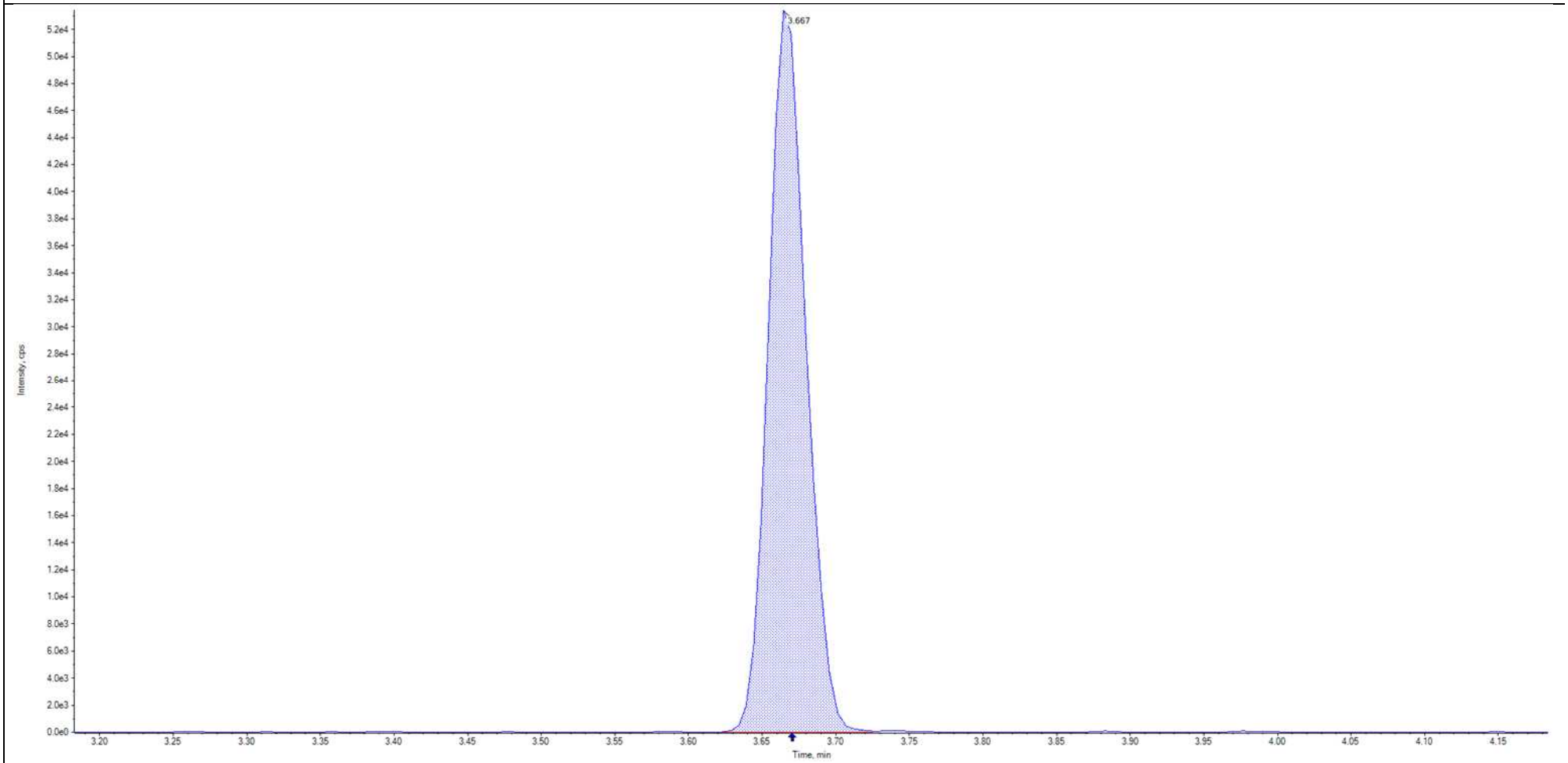


13C2-6:2FTS
Sample: IA1633STD-.2

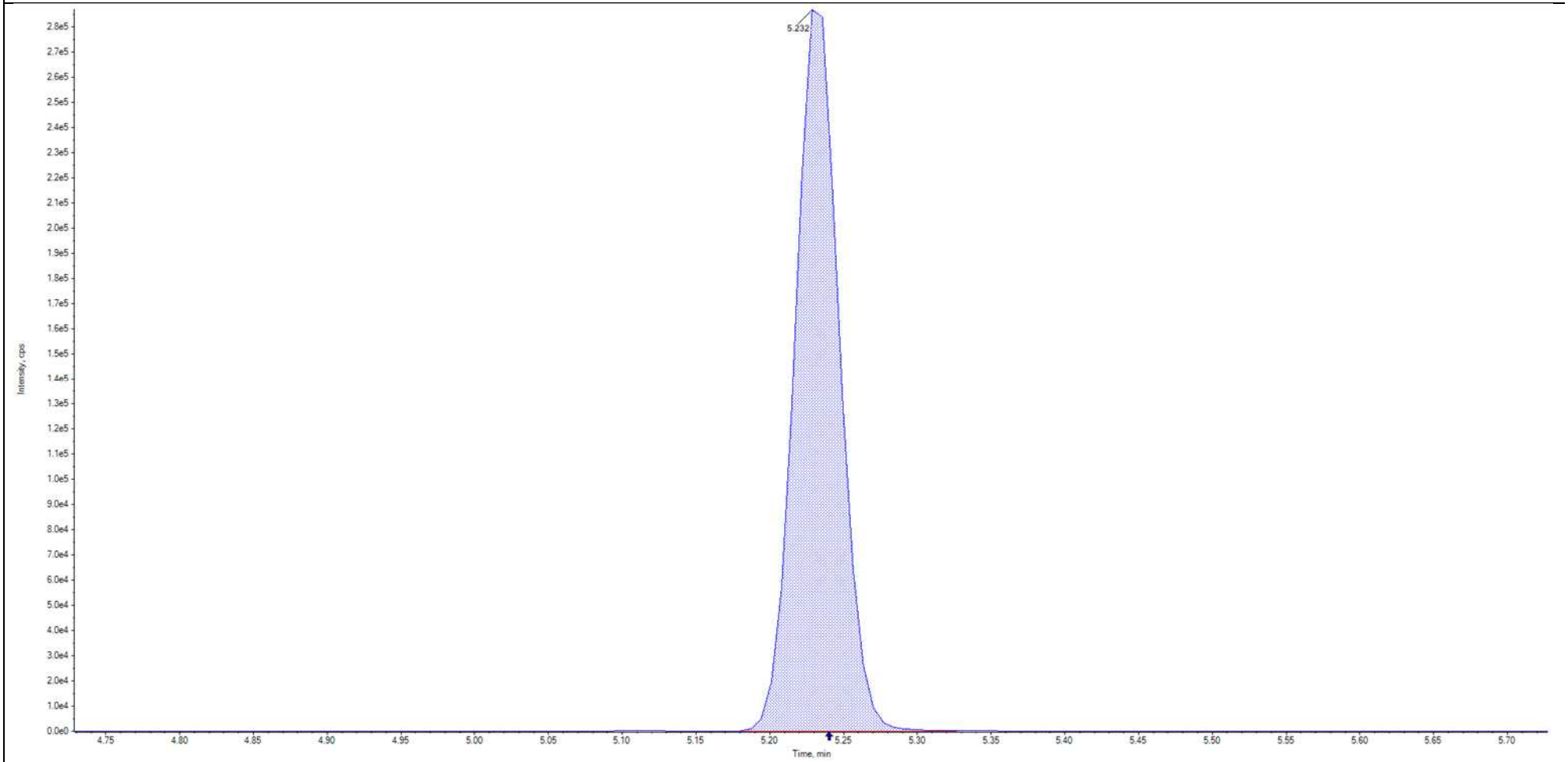


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_23.wiff2_2
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

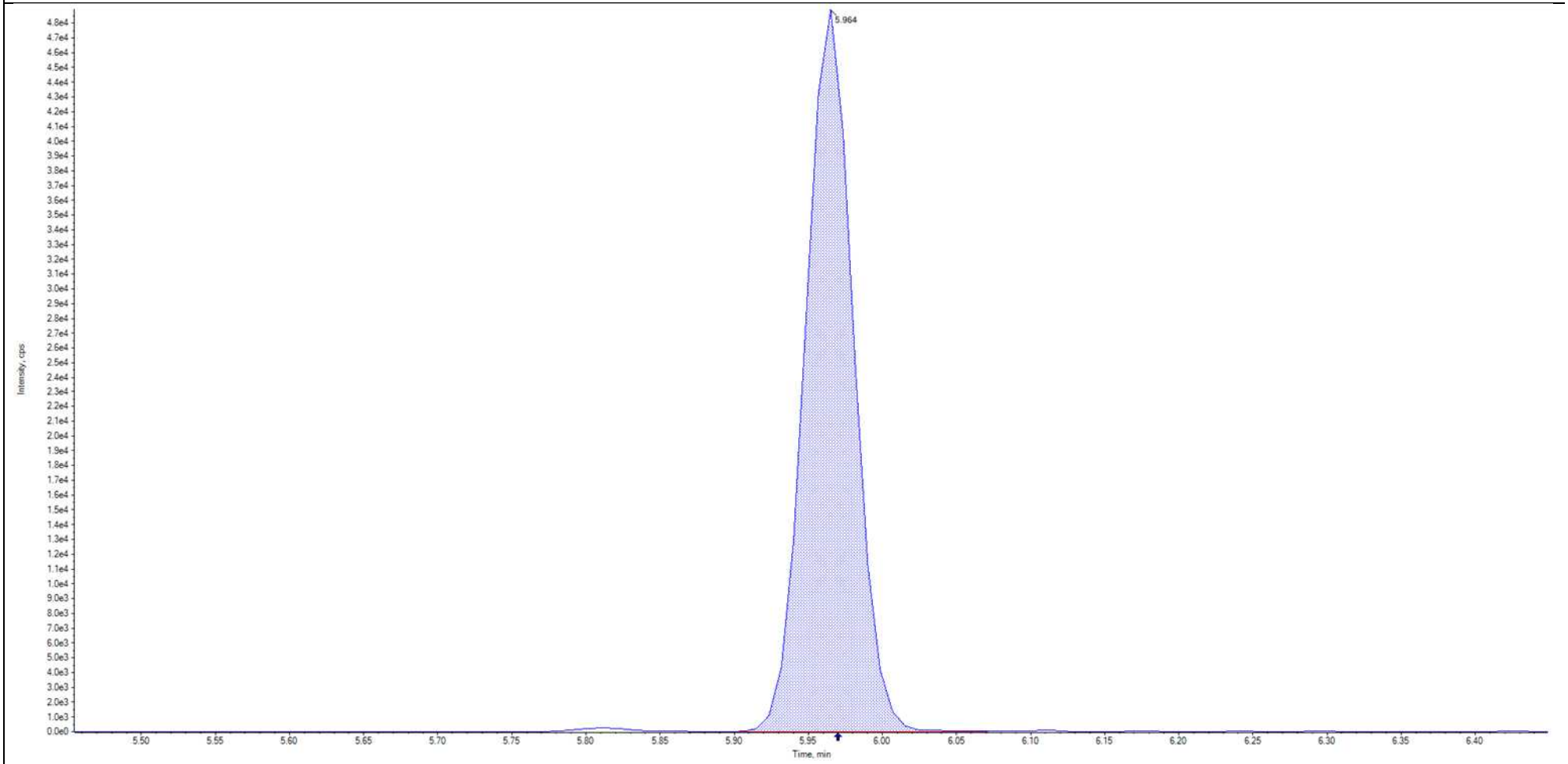
13C2-8:2FTS
Sample: IA1633STD-.2



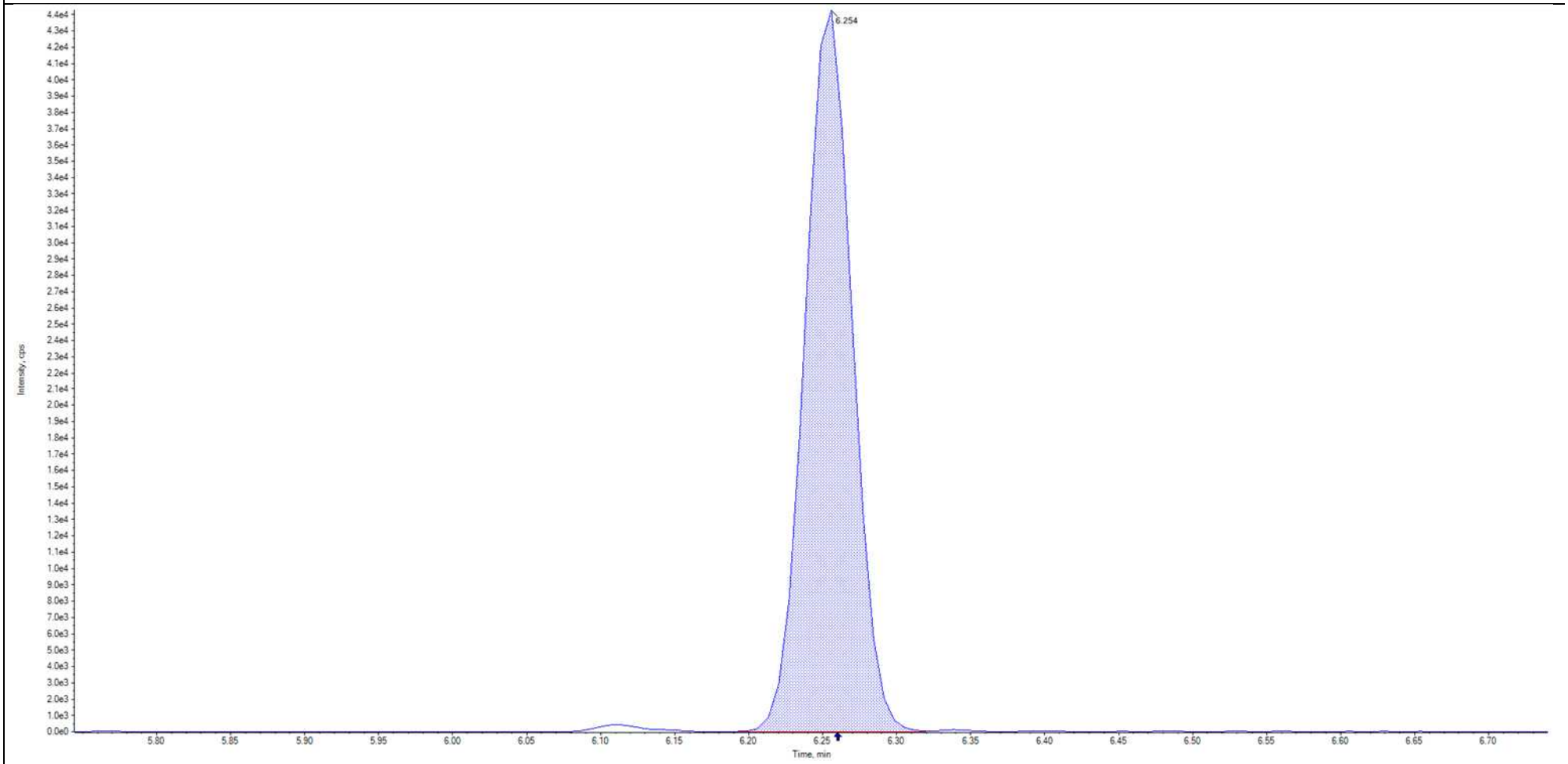
13C8-PFOSA
Sample: IA1633STD-.2



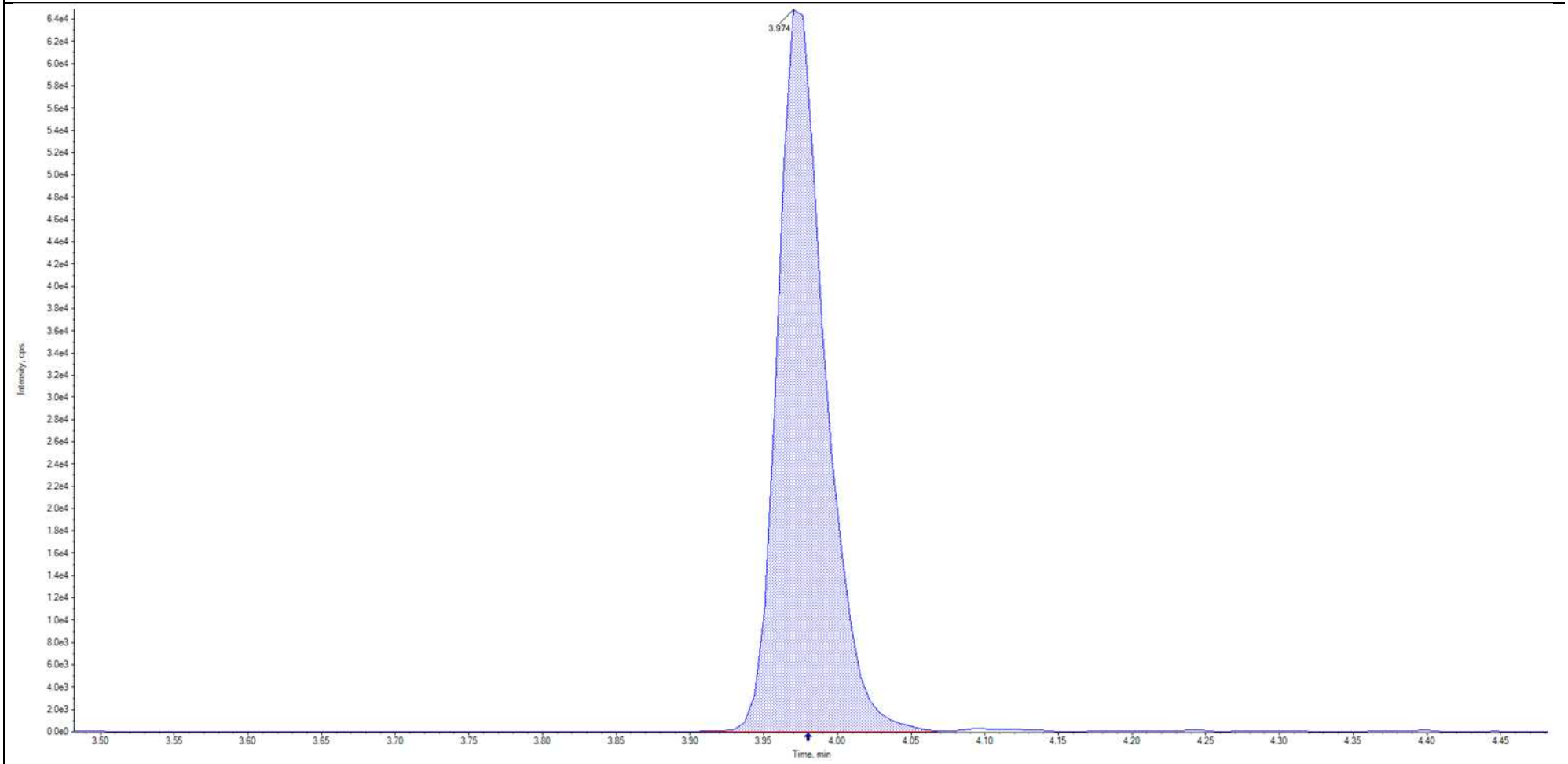
d3-NMeFOSA
Sample: IA1633STD-.2



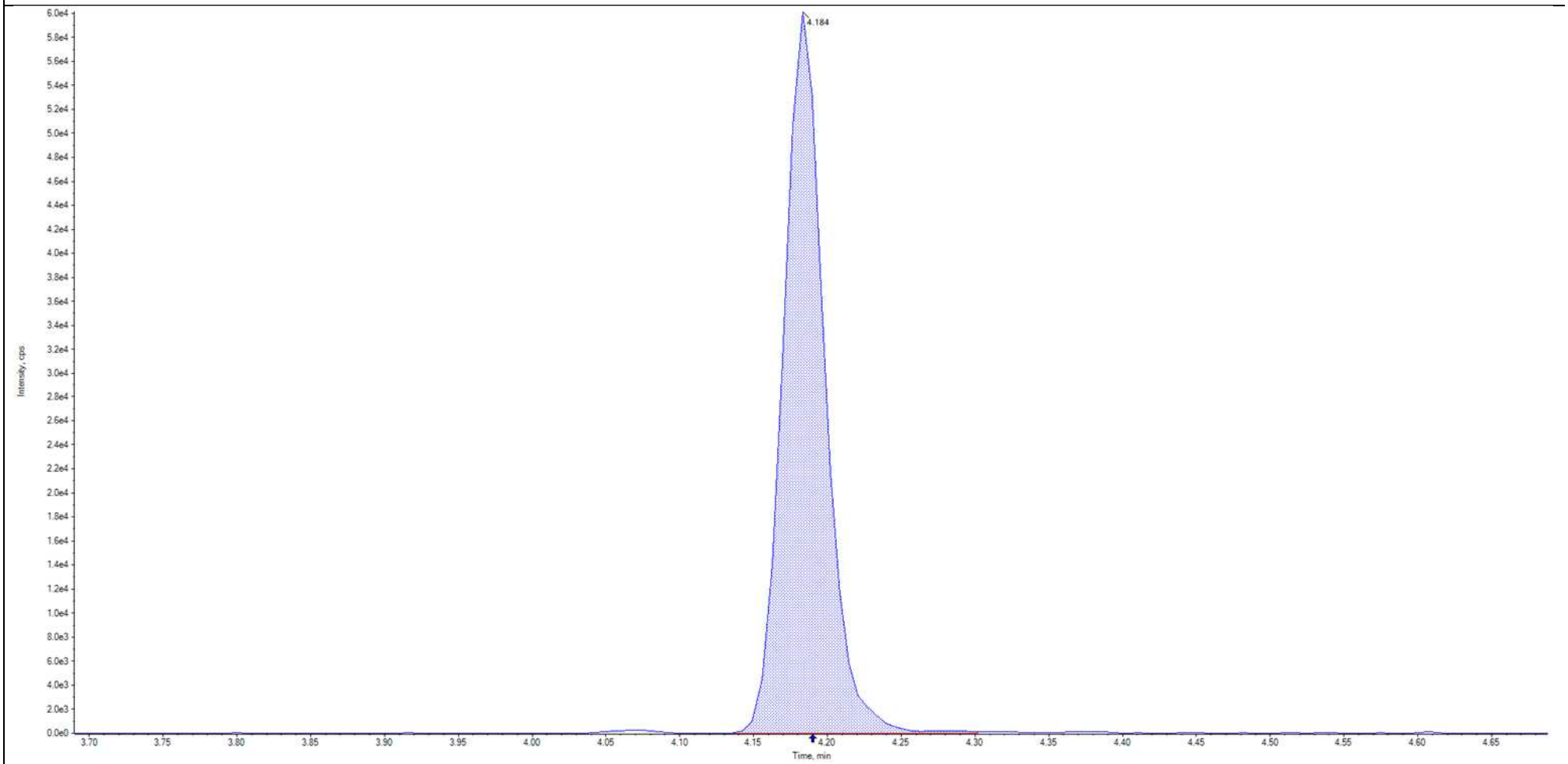
d5-NEtFOSA
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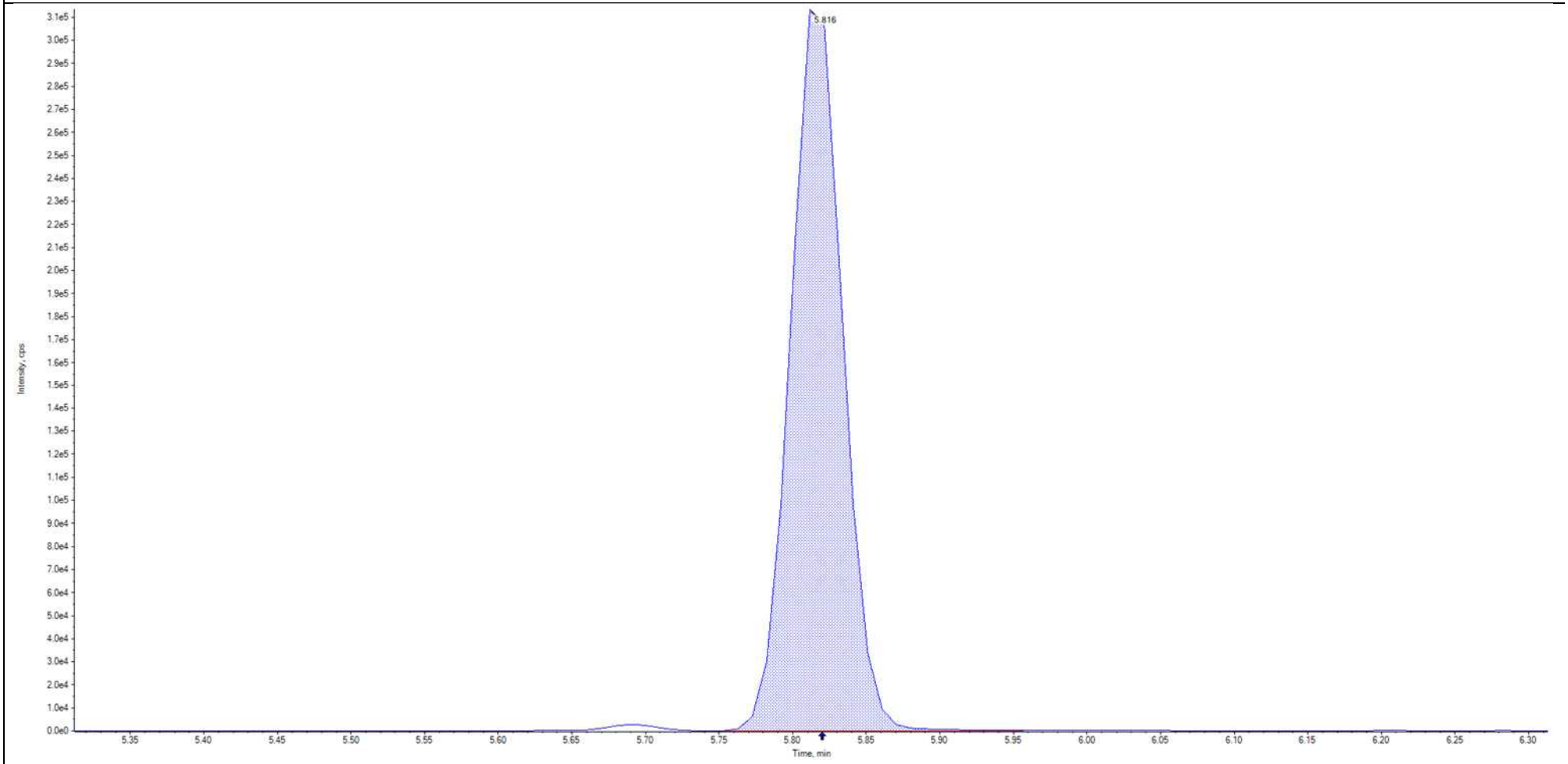
d3-NMeFOSAA
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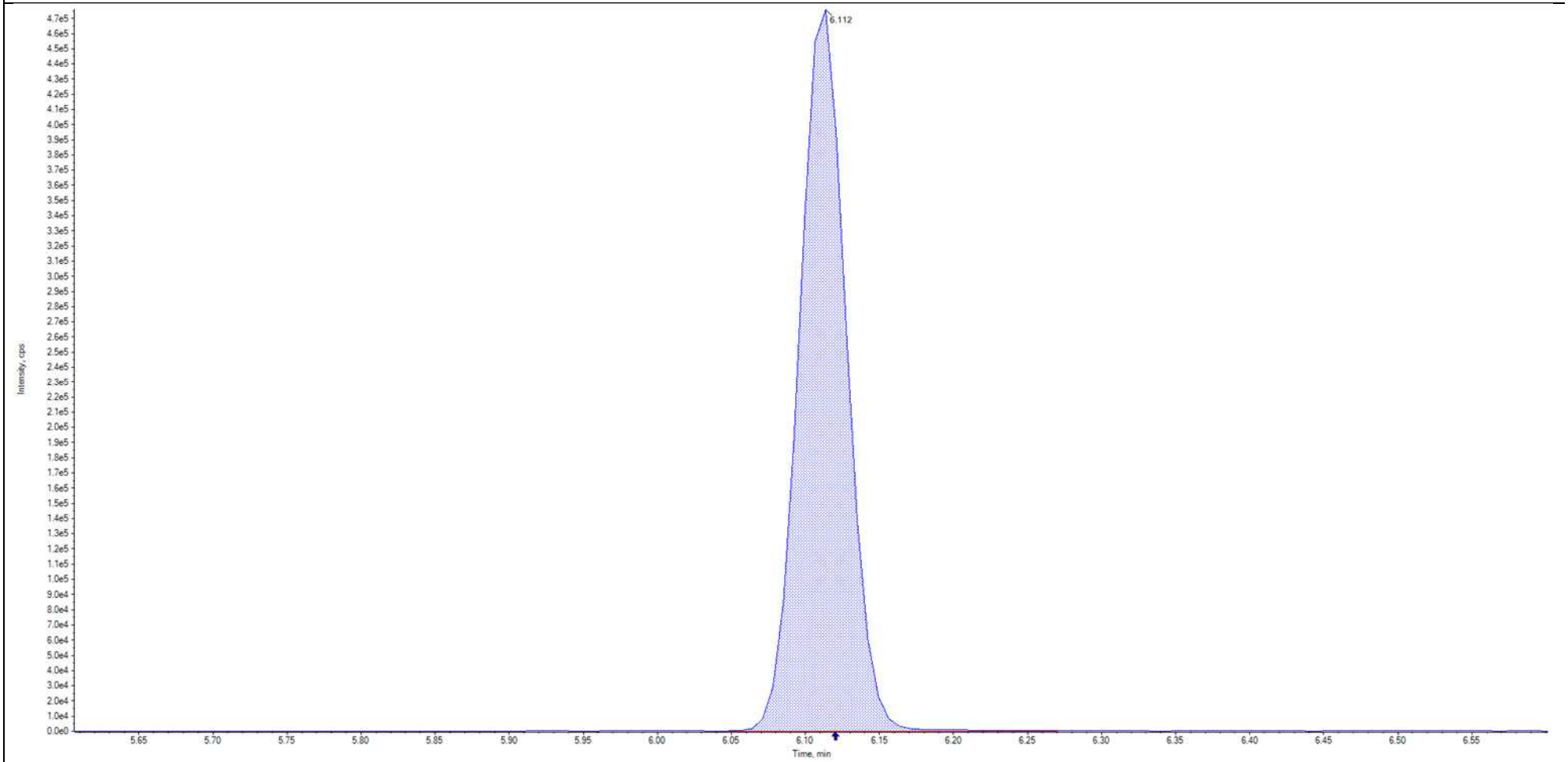
d5-NEtFOSAA
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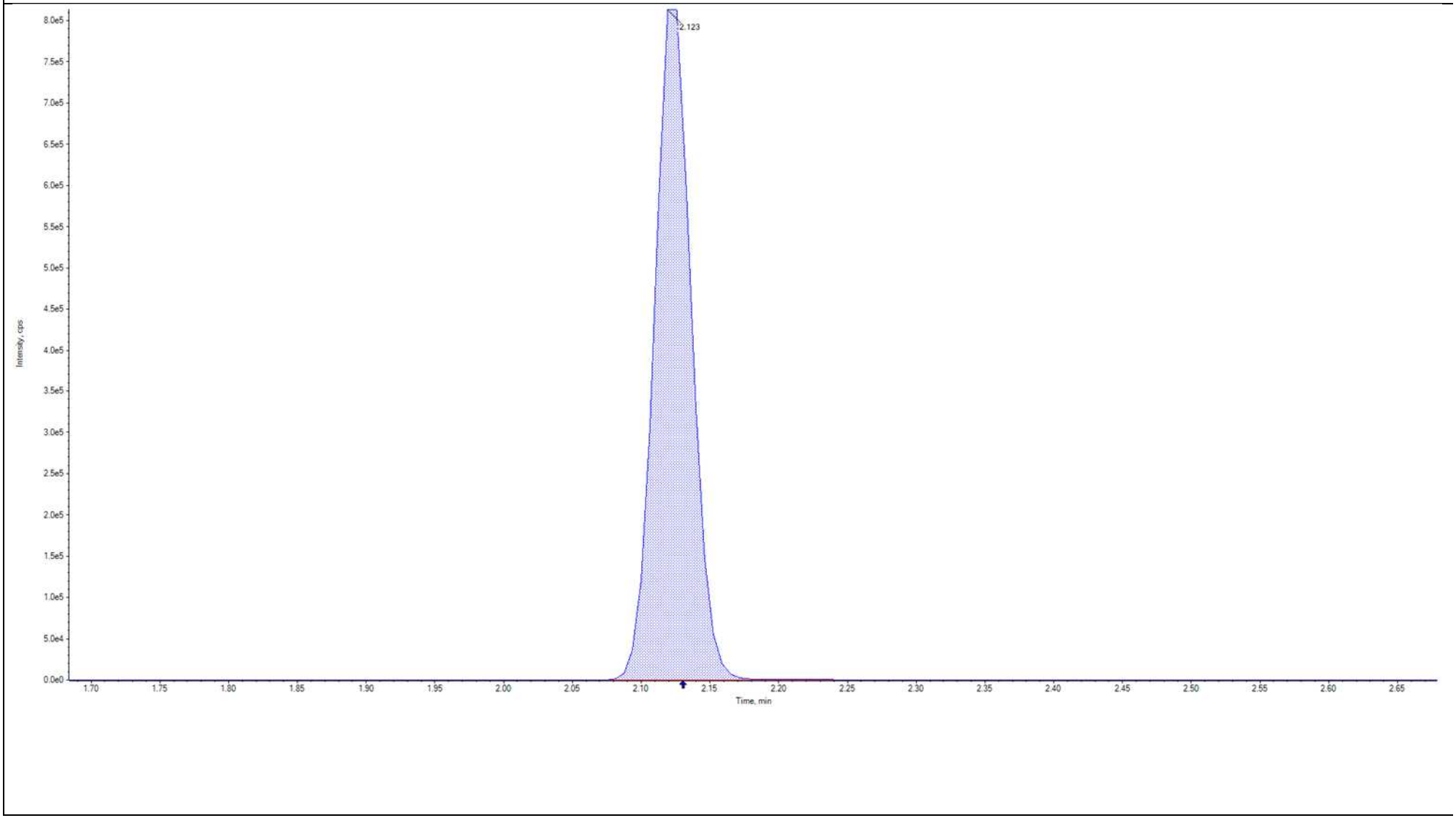
d7-NMeFOSE
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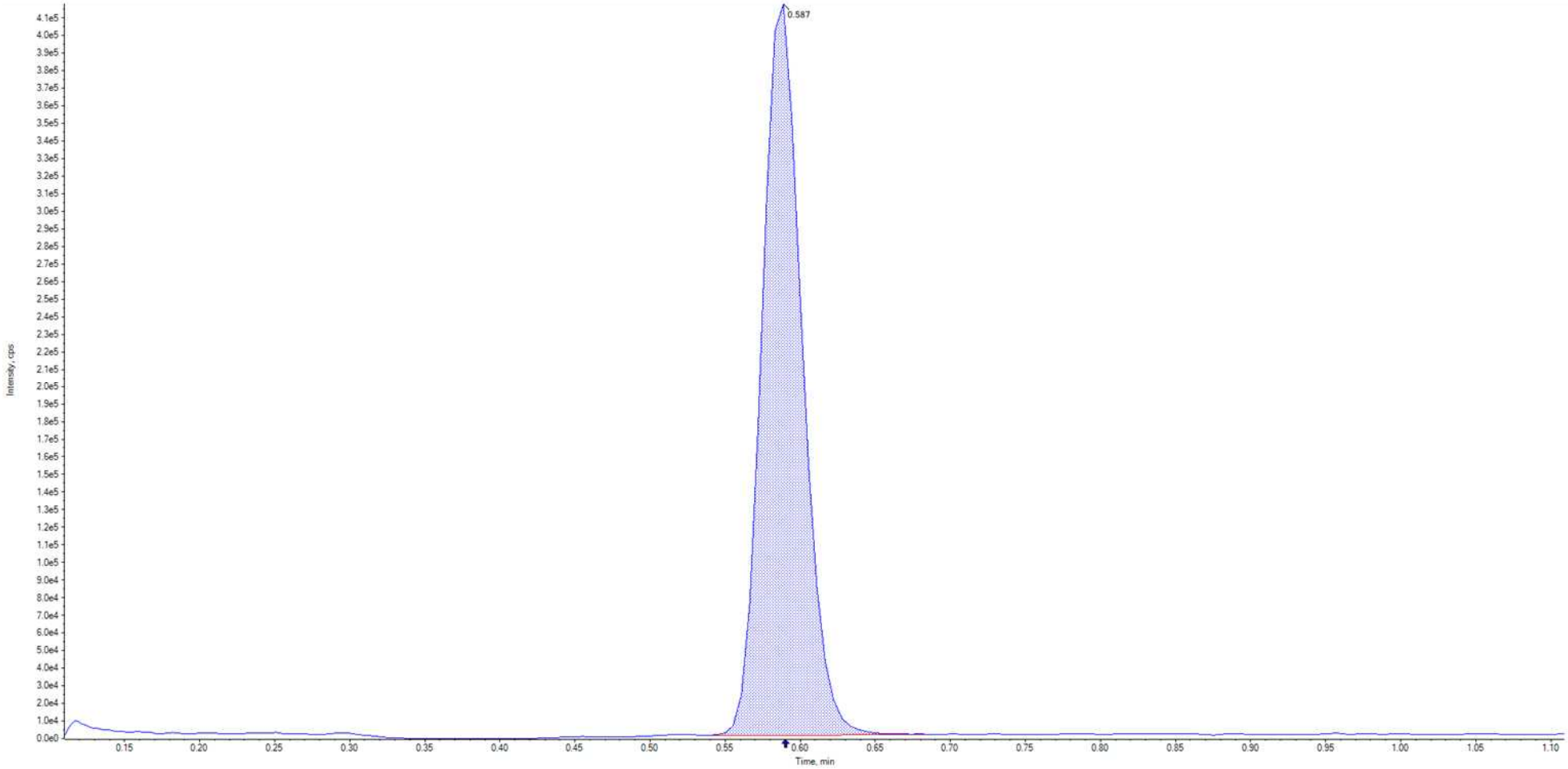
d9-NEtFOSE
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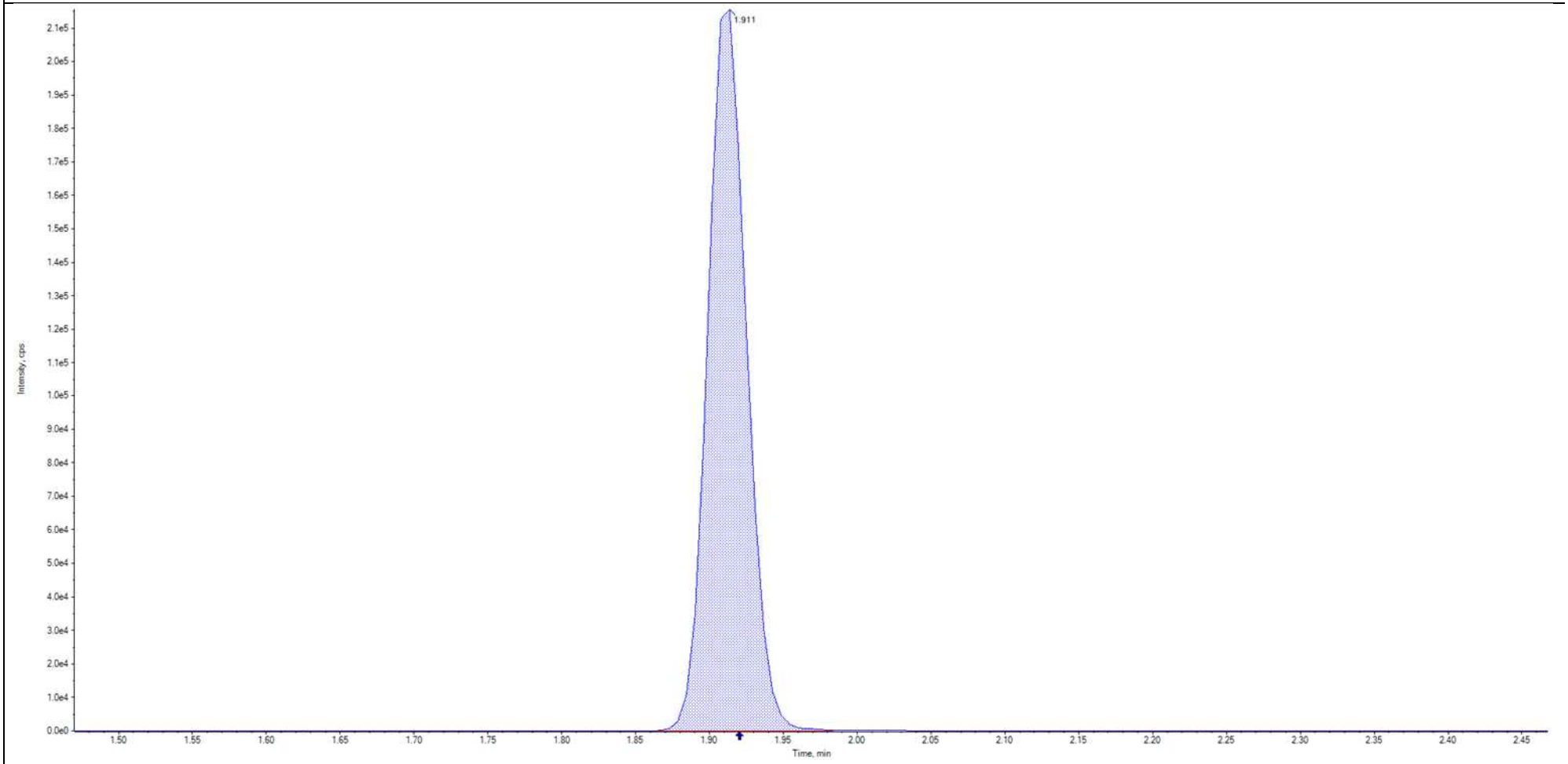
13C3-HFPO-DA
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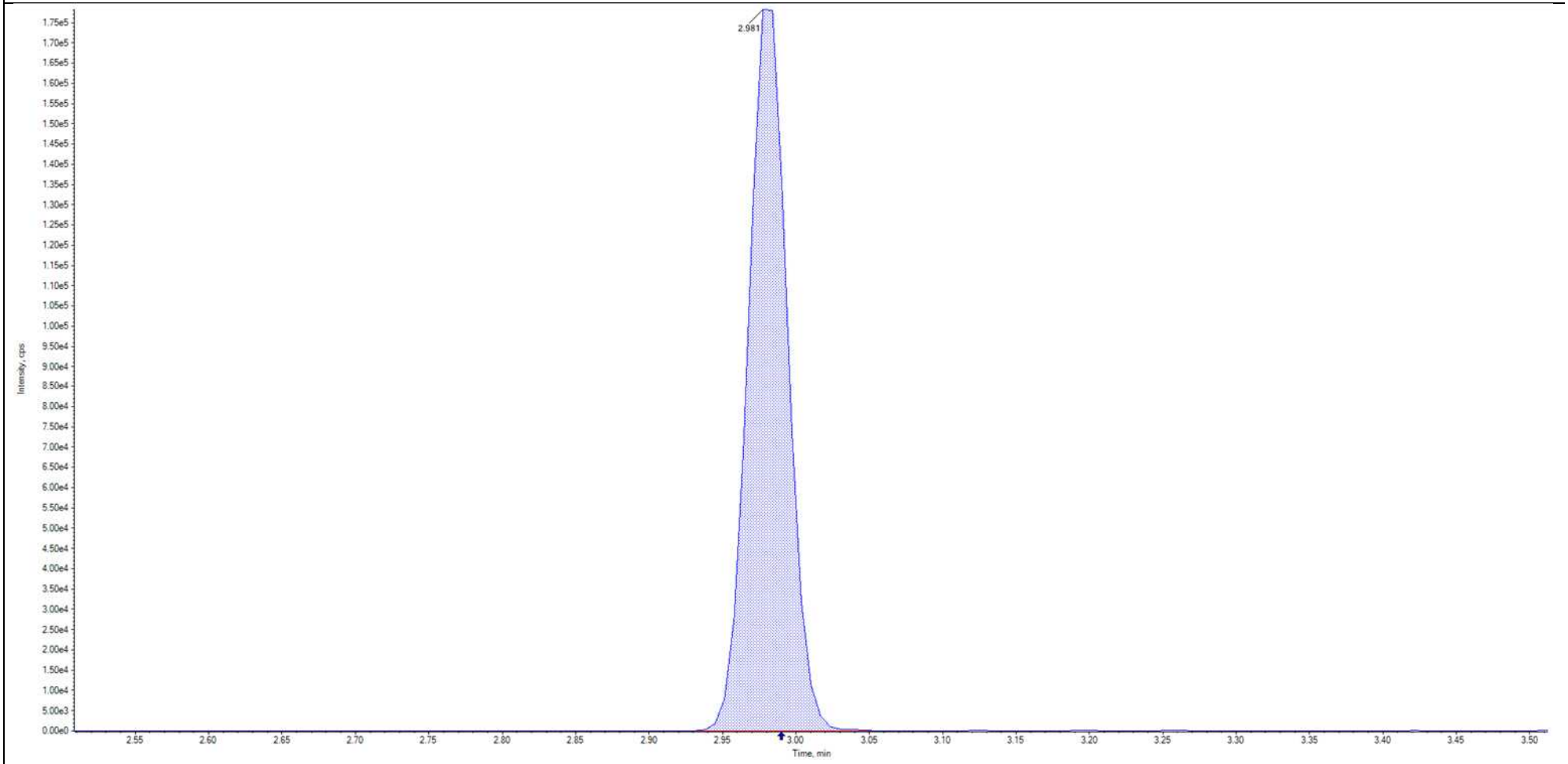
13C3-PFBA
Sample: IA1633STD-.2



13C2-PFHxA
Sample: IA1633STD-.2

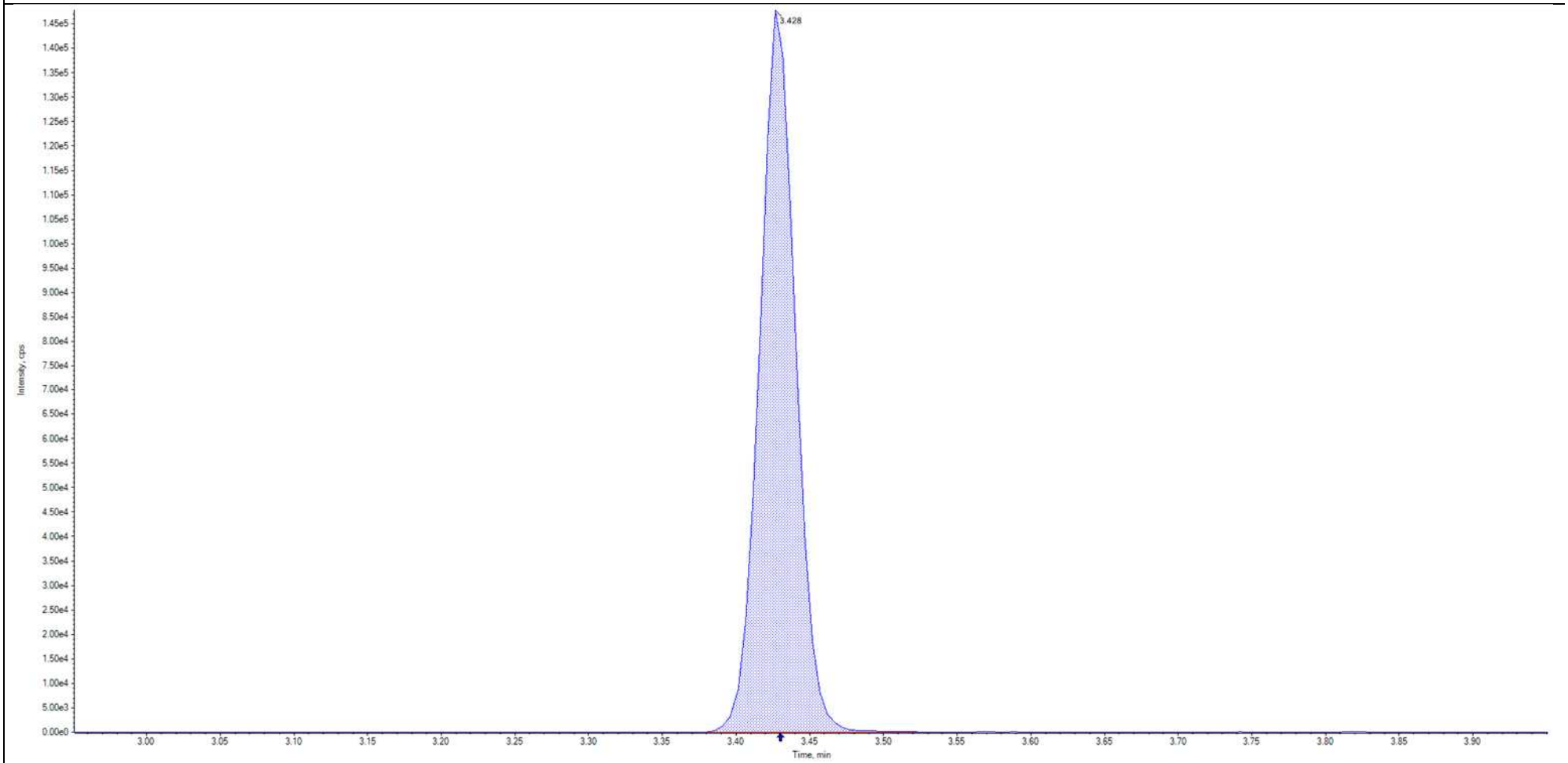


13C4-PFOA
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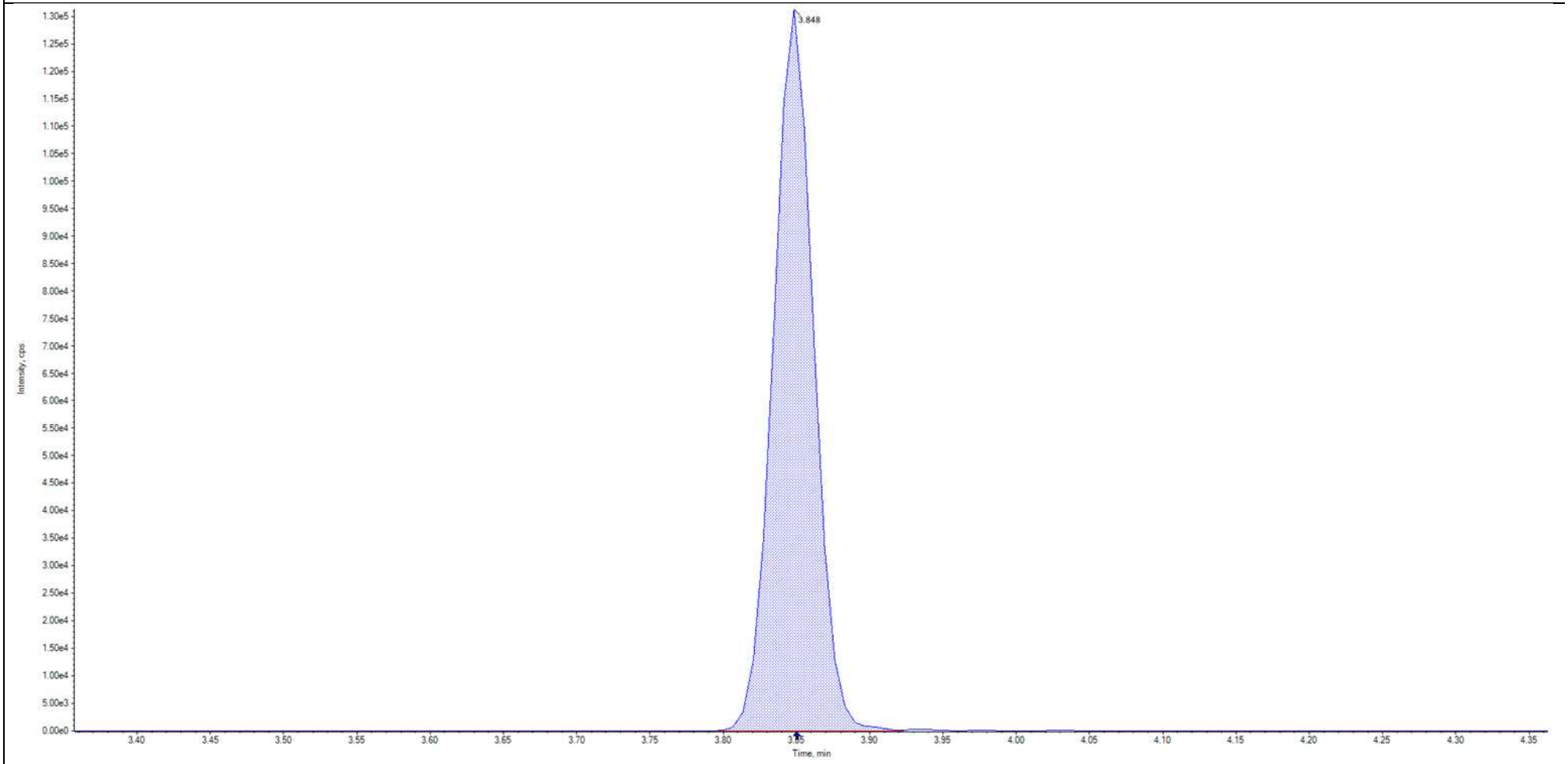


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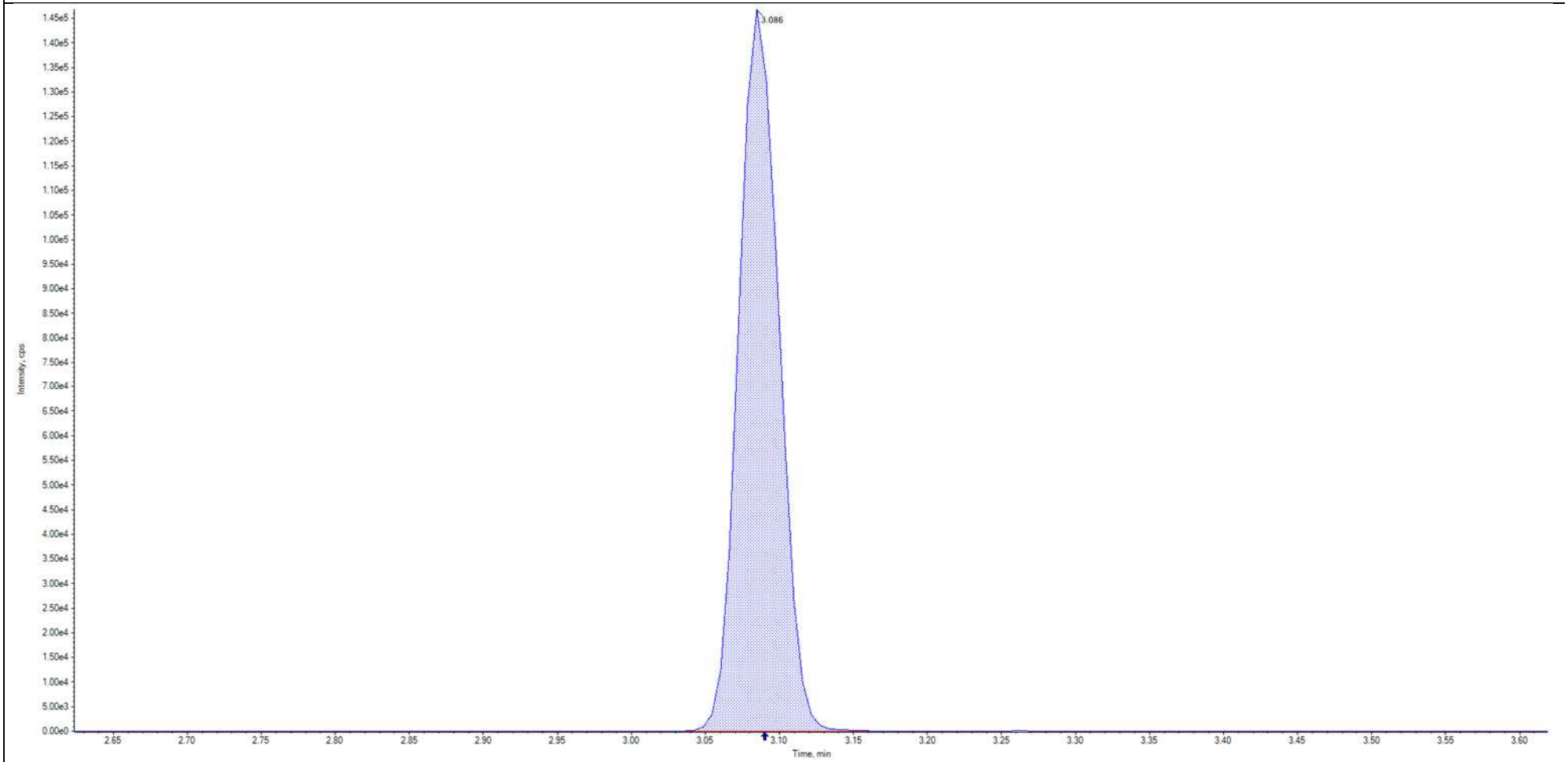
13C5-PFNA
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13C2-PFDA
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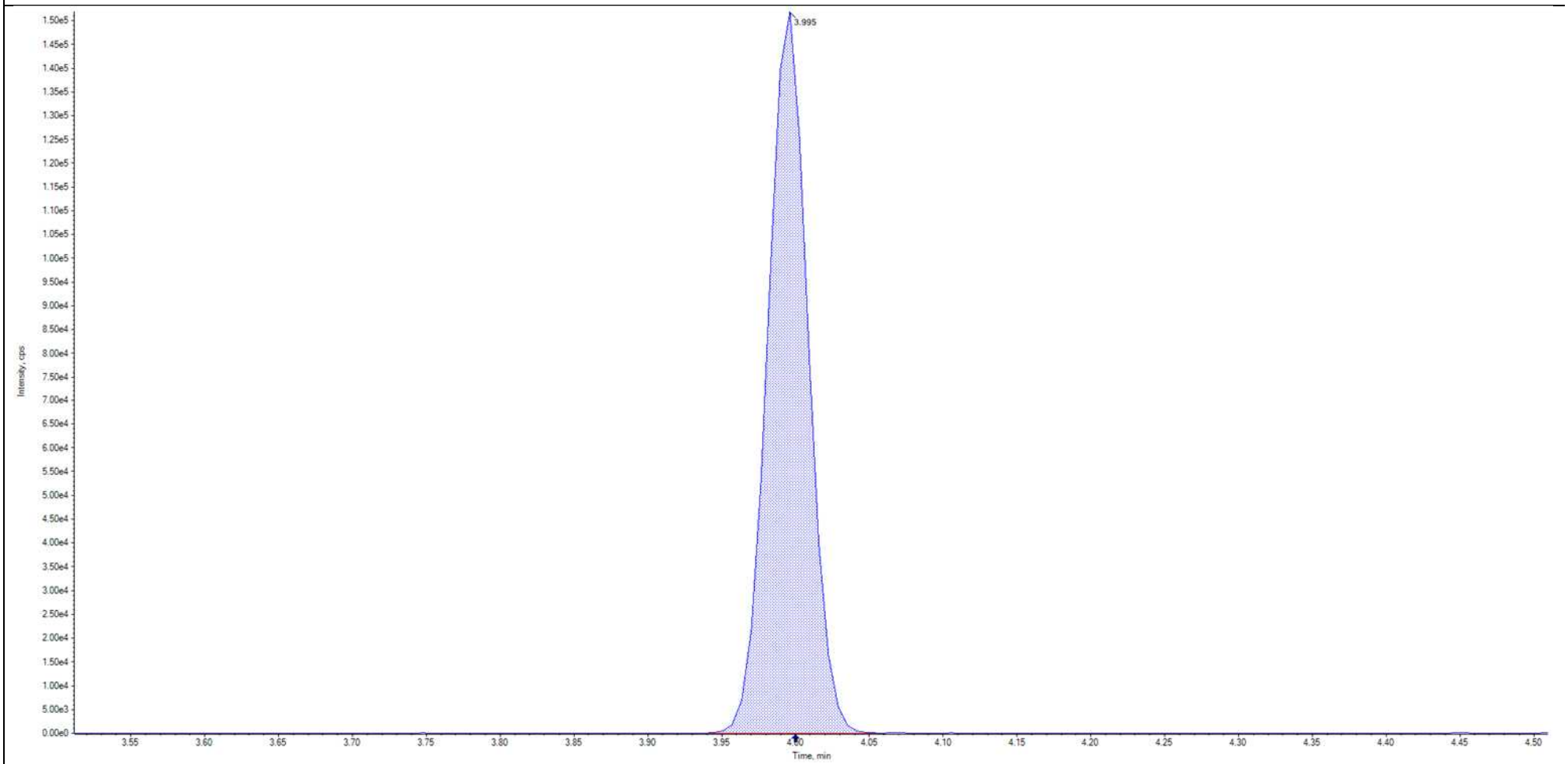


18O2-PFHxS
Sample: IA1633STD-.2



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13C4-PFOS
Sample: IA1633STD-.2



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Calibration: 250303_1633_ICAL

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Instrument: SCIEX Triple Quad 5500+
User: LCMS09:JW

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.60	213.0 / 169.0	314550	M4	1.860	N/A	N/A	N/A	93.0
2	PFPeA	2706-90-3	1.19	263.0 / 219.0	145153		0.970	0.006	N/A	N/A	97.1
3	PFPeA_2	2706-90-3	1.18	263.0 / 68.9	823	M2	0.785	0.006	N/A	N/A	78.5
4	PFHxA	307-24-4	1.93	313.0 / 269.0	89541		0.486	0.089	0.081	Pass	97.2
5	PFHxA_2	307-24-4	1.93	313.0 / 119.0	7944		0.507	0.089	0.081	Pass	101.4
6	PFHpA	375-85-9	2.51	363.1 / 319.0	100230		0.465	0.381	0.373	Pass	93.1
7	PFHpA_2	375-85-9	2.51	363.1 / 169.0	38173		0.449	0.381	0.373	Pass	89.8

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	3.00	413.1 / 369.1	104430	M5	0.465	0.407	0.424	Pass	93.0
9	PFOA_2	335-67-1	3.00	413.1 / 169.0	42500	M5	0.447	0.407	0.424	Pass	89.4
10	PFNA	375-95-1	3.44	462.8 / 418.9	68495	M5	0.464	0.459	0.493	Pass	92.8
11	PFNA_2	375-95-1	3.44	462.8 / 219.0	31450	M5	0.438	0.459	0.493	Pass	87.5
12	PFDA	335-76-2	3.86	513.1 / 469.1	109021		0.505	0.163	0.188	Pass	100.9
13	PFDA_2	335-76-2	3.86	513.1 / 219.0	17740		0.446	0.163	0.188	Pass	89.2
14	PFUnA	2058-94-8	4.26	563.1 / 519.1	112775		0.481	0.138	0.146	Pass	96.3
15	PFUnA_2	2058-94-8	4.26	563.1 / 269.0	15582		0.463	0.138	0.146	Pass	92.6
16	PFDoA	307-55-1	4.65	613.1 / 569.1	124129		0.499	0.129	0.142	Pass	99.8
17	PFDoA_2	307-55-1	4.65	613.1 / 319.0	15965		0.466	0.129	0.142	Pass	93.1
18	PFTrDA	72629-94-8	5.04	663.1 / 619.1	107187		0.491	0.157	0.152	Pass	98.1
19	PFTrDA_2	72629-94-8	5.04	663.1 / 169.0	16803		0.501	0.157	0.152	Pass	100.1
20	PFTeDA	376-06-7	5.40	713.1 / 669.1	97120		0.512	0.155	0.154	Pass	102.5
21	PFTeDA_2	376-06-7	5.41	713.1 / 169.0	15069		0.487	0.155	0.154	Pass	97.4
22	PFBS	375-73-5	1.93	299.1 / 80.1	71222		0.390	0.383	0.374	Pass	87.8

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.93	299.1 / 99.1	27262		0.428	0.383	0.374	Pass	91.1
24	PFPeS	2706-91-4	2.57	349.1 / 80.1	71445		0.468	0.343	0.314	Pass	99.6
25	PFPeS_2	2706-91-4	2.57	349.1 / 99.1	24535		0.512	0.343	0.314	Pass	109.0
26	PFHxS	355-46-4	3.10	399.1 / 80.1	58304	M5	0.418	0.275	0.306	Pass	91.8
27	PFHxS_2	355-46-4	3.10	399.1 / 99.1	16014	M5	0.397	0.275	0.306	Pass	87.1
28	PFHpS	375-92-8	3.57	449.1 / 80.1	63766		0.463	0.331	0.316	Pass	97.2
29	PFHpS_2	375-92-8	3.57	449.1 / 99.1	21130		0.501	0.331	0.316	Pass	105.2
30	PFOS	1763-23-1	4.01	499.1 / 80.1	74213	M5	0.443	0.264	0.244	Pass	95.4
31	PFOS_2	1763-23-1	4.01	499.1 / 99.1	19615	M5	0.466	0.264	0.244	Pass	100.3
32	PFNS	68259-12-1	4.42	549.1 / 80.1	55507		0.486	0.287	0.294	Pass	101.3
33	PFNS_2	68259-12-1	4.42	549.1 / 99.1	15923		0.488	0.287	0.294	Pass	101.6
34	PFDS	335-77-3	4.82	599.1 / 80.1	54400		0.485	0.274	0.290	Pass	100.6
35	PFDS_2	335-77-3	4.82	599.1 / 99.1	14931		0.471	0.274	0.290	Pass	97.8
36	PFDoS	79780-39-5	5.56	699.2 / 80.1	48558		0.475	0.243	0.256	Pass	98.2
37	PFDoS_2	79780-39-5	5.56	699.2 / 99.1	11817		0.449	0.243	0.256	Pass	92.7

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.72	327.1 / 307.1	60344		1.788	0.680	0.650	Pass	95.6
39	4:2FTS_2	757124-72-4	1.72	327.1 / 81.1	41053		1.885	0.680	0.650	Pass	100.8
40	6:2FTS	27619-97-2	2.81	427.2 / 407.2	56508		1.978	0.696	0.620	Pass	104.1
41	6:2FTS_2	27619-97-2	2.81	427.2 / 81.1	39310		2.147	0.696	0.620	Pass	113.0
42	8:2FTS	39108-34-4	3.68	527.2 / 507.2	49749		1.989	0.613	0.676	Pass	103.6
43	8:2FTS_2	39108-34-4	3.68	527.2 / 81.1	30499		1.771	0.613	0.676	Pass	92.2
44	PFOSA	754-91-6	5.25	498.1 / 78.1	92361	M5	0.477	0.025	0.026	Pass	95.4
45	PFOSA_2	754-91-6	5.25	498.1 / 478.0	2328	M5	0.466	0.025	0.026	Pass	93.1
46	NMeFOSA	31506-32-8	5.98	512.2 / 219.0	21343	M5	0.450	1.469	1.377	Pass	89.9
47	NMeFOSA_2	31506-32-8	5.94	512.2 / 169.0	31363	M5	0.475	1.469	1.377	Pass	95.1
48	NEtFOSA	4151-50-2	6.28	526.2 / 219.0	21494	M5	0.460	1.295	1.292	Pass	92.0
49	NEtFOSA_2	4151-50-2	6.23	526.2 / 169.0	27829	M5	0.477	1.295	1.292	Pass	95.4
50	NMeFOSAA	2355-31-9	3.99	570.2 / 419.1	13391		0.494	0.739	0.697	Pass	98.7
51	NMeFOSAA_2	2355-31-9	3.99	570.2 / 483.0	9898		0.508	0.739	0.697	Pass	101.6
52	NEtFOSAA	2991-50-6	4.20	584.2 / 419.1	11391	M5	0.459	0.644	0.557	Pass	91.8

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.20	584.2 / 526.2	7335	M5	0.536	0.644	0.557	Pass	107.2
54	NMeFOSE	24448-09-7	5.85	616.1 / 58.9	320914	M5	4.602	N/A	N/A	N/A	92.1
55	NEtFOSE	1691-99-2	6.15	630.0 / 58.9	476061	M5	4.780	N/A	N/A	N/A	95.6
56	HFPO-DA	13252-13-6	2.14	285.0 / 169.0	301471		2.005	0.518	0.501	Pass	100.2
57	HFPO-DA_2	13252-13-6	2.14	285.0 / 184.9	156093		1.969	0.518	0.501	Pass	98.4
58	ADONA	919005-14-4	2.69	376.9 / 251.0	524770		1.653	0.754	0.691	Pass	87.5
59	ADONA_2	919005-14-4	2.69	376.9 / 84.8	395636		1.881	0.754	0.691	Pass	99.5
60	9Cl-PF3ONS	756426-58-1	4.29	530.8 / 351.1	588976		2.061	0.330	0.332	Pass	110.2
61	9Cl-PF3ONS_2	756426-58-1	4.29	532.8 / 353.0	194216		2.045	0.330	0.332	Pass	109.3
62	11Cl-PF3OUdS	763051-92-9	5.08	630.9 / 451.0	494647		2.047	0.309	0.322	Pass	108.3
63	11Cl-PF3OUdS_2	763051-92-9	5.08	632.9 / 452.9	153068		1.973	0.309	0.322	Pass	104.4
64	3:3FTCA	356-02-5	1.57	241.1 / 177.1	26619		2.305	1.183	1.010	Pass	92.2
65	3:3FTCA_2	356-02-5	1.57	241.1 / 117.0	31487		2.511	1.183	1.010	Pass	100.4
66	5:3FTCA	914637-49-3	3.04	341.1 / 237.1	610827		13.255	0.947	1.017	Pass	106.0
67	5:3FTCA_2	914637-49-3	3.04	341.1 / 217.0	578544		12.460	0.947	1.017	Pass	99.7

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.07	441.1 / 316.9	453957		11.334	1.408	1.343	Pass	90.7
69	7:3FTCA_2	812-70-4	4.07	441.1 / 337.1	638961		12.068	1.408	1.343	Pass	96.6
70	PFEESA	113507-82-7	2.23	315.1 / 135.0	452001		0.944	0.083	0.081	Pass	105.8
71	PFEESA_2	113507-82-7	2.23	315.1 / 82.9	37325		0.948	0.083	0.081	Pass	106.2
72	PFMPA	377-73-1	0.76	229.0 / 85.0	154033		0.871	N/A	N/A	N/A	87.1
73	PFMBA	863090-89-5	1.45	279.0 / 85.0	168417		0.984	N/A	N/A	N/A	98.4
74	NFDHA	151772-58-6	1.85	295.0 / 201.0	121871		0.972	0.663	0.681	Pass	97.2
75	NFDHA_2	151772-58-6	1.85	295.0 / 84.9	80800		0.911	0.663	0.681	Pass	91.1
76	TDCA	516-50-7	2.68	499.1 / 124.1	168518		0.890	5.544	5.680	Pass	N/A
77	TDCA_2	516-50-7	2.68	499.1 / 79.9	934220		0.876	5.544	5.680	Pass	N/A
78	13C2D4-4:2FTS	Surr	1.71	333.2 / 312.1	118454		4.693	N/A	N/A	N/A	93.9
79	13C2-PFOA	Surr	2.99	415.0 / 370.0	307805		2.407	N/A	N/A	N/A	96.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.60	217.0 / 172.0	1892297		10.580	NA	NA	NA	105.8

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.18	268.0 / 223.0	779247		5.058	NA	NA	NA	101.2
	13C5-PFHxA	EIS	1.92	318.0 / 273.0	359772		2.484	NA	NA	NA	99.3
	13C4-PFHpA	EIS	2.50	367.0 / 322.0	370872		2.654	NA	NA	NA	106.2
	13C8-PFOA	EIS	2.99	420.8 / 376.0	656904		2.857	NA	NA	NA	114.3
	13C9-PFNA	EIS	3.44	472.0 / 427.0	273569		1.298	NA	NA	NA	103.9
	13C6-PFDA	EIS	3.86	519.0 / 474.0	305483		1.378	NA	NA	NA	110.3
	13C7-PFUnA	EIS	4.26	570.0 / 525.0	345914		1.414	NA	NA	NA	113.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.65	615.1 / 570.0	329034		1.337	NA	NA	NA	107.0
	13C2-PFTeDA	EIS	5.40	715.1 / 670.1	208466		1.306	NA	NA	NA	104.5
	13C3-PFBS	EIS	1.92	302.1 / 80.1	400542		2.798	NA	NA	NA	120.1
	13C3-PFHxS	EIS	3.10	402.1 / 80.1	318819		2.506	NA	NA	NA	105.7
	13C8-PFOS	EIS	4.01	507.1 / 80.1	351773		2.409	NA	NA	NA	100.4
	13C2-4:2FTS	EIS	1.72	329.1 / 81.1	102813		4.870	NA	NA	NA	103.8
	13C2-6:2FTS	EIS	2.81	429.2 / 81.1	84553		4.652	NA	NA	NA	97.7
	13C2-8:2FTS	EIS	3.67	529.2 / 81.1	90244		4.904	NA	NA	NA	102.2

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.24	506.1 / 78.1	604469		2.607	NA	NA	NA	104.3
d3-NMeFOSA	EIS	5.97	515.2 / 219.0	105877		2.529	NA	NA	NA	101.2
d5-NEtFOSA	EIS	6.26	531.2 / 219.0	95915		2.519	NA	NA	NA	100.8
d3-NMeFOSAA	EIS	3.98	573.2 / 419.1	149194		5.208	NA	NA	NA	104.2
d5-NEtFOSAA	EIS	4.19	589.3 / 419.1	114487		5.001	NA	NA	NA	100.0
d7-NMeFOSE	EIS	5.83	623.2 / 58.9	769477		25.552	NA	NA	NA	102.2
d9-NEtFOSE	EIS	6.12	639.2 / 58.9	1054318		26.099	NA	NA	NA	104.4

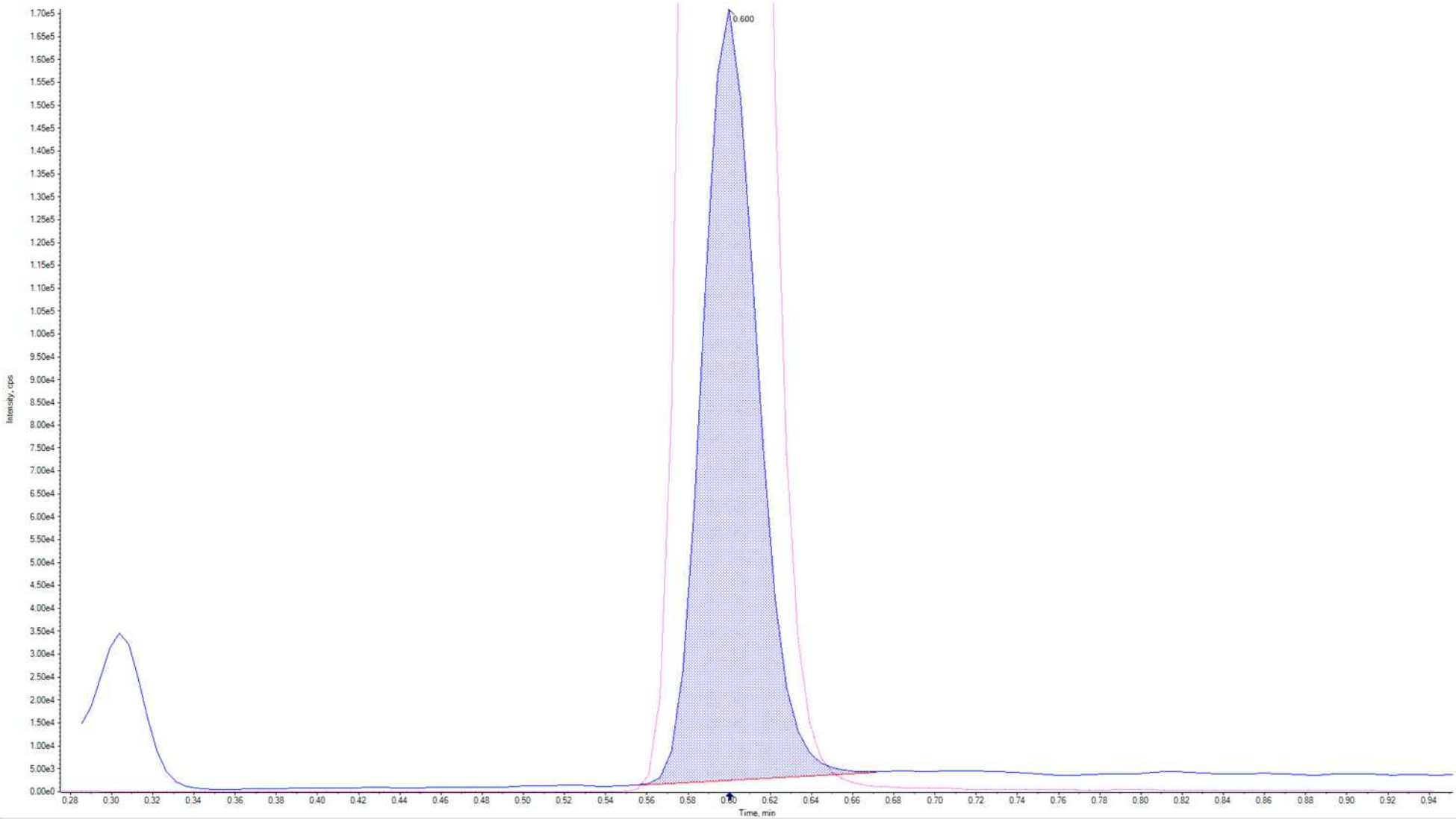
	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.13	287.0 / 169.0	1483826		9.684	NA	NA	NA	96.8
	13C3-PFBA	NIS	0.60	216.0 / 172.0	791390		5.460	NA	NA	NA	109.2
	13C2-PFHxA	NIS	1.92	315.0 / 270.0	426562		2.632	NA	NA	NA	105.3
	13C4-PFOA	NIS	2.99	417.0 / 372.0	349435		2.431	NA	NA	NA	97.2
	13C5-PFNA	NIS	3.44	468.0 / 423.0	263889		1.280	NA	NA	NA	102.4
	13C2-PFDA	NIS	3.86	515.1 / 470.1	258710		1.217	NA	NA	NA	97.3
	18O2-PFHxS	NIS	3.10	403.1 / 84.1	267578		2.273	NA	NA	NA	95.9
	13C4-PFOS	NIS	4.00	503.1 / 80.1	293793		2.444	NA	NA	NA	101.8

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

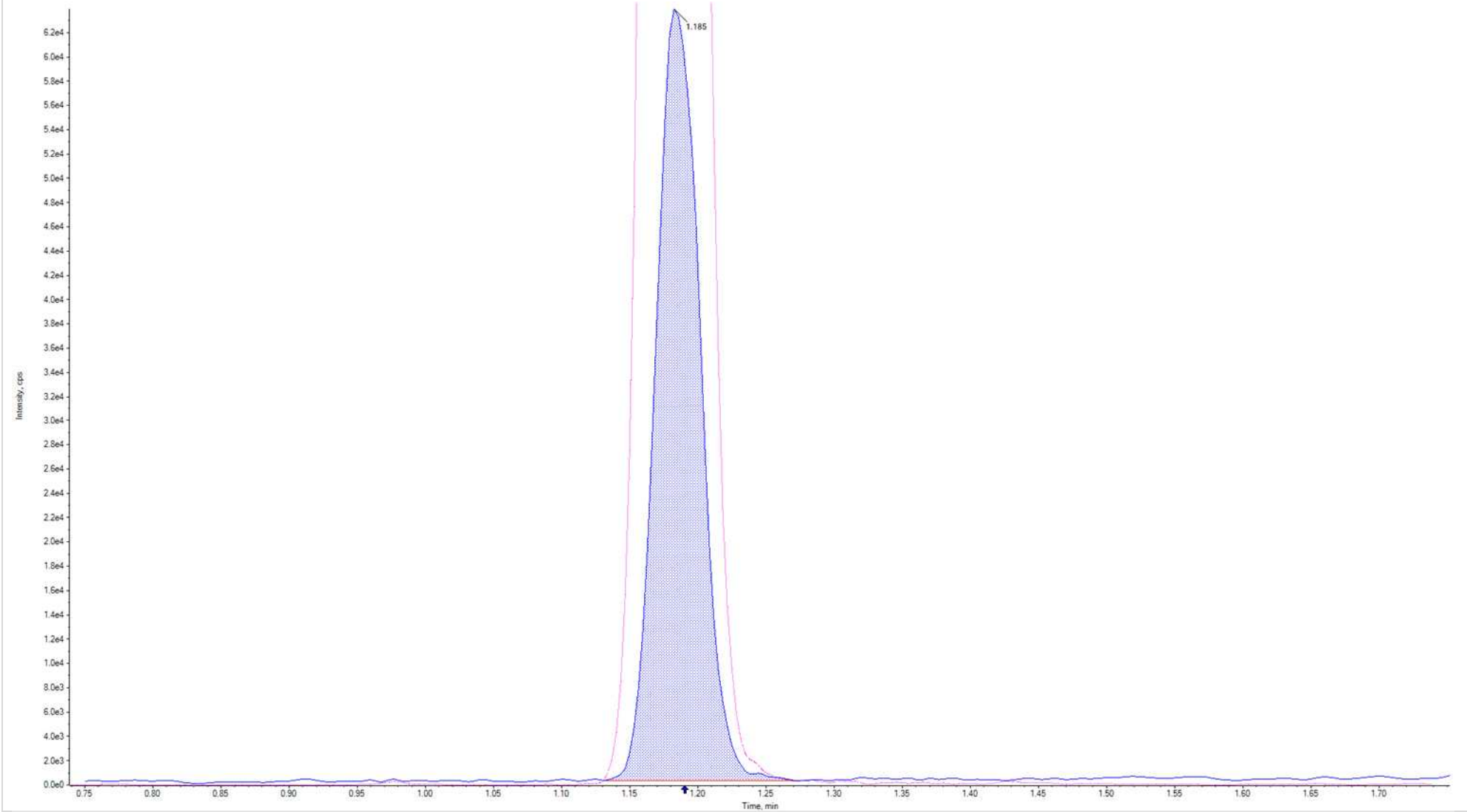
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

PFBA
Sample: IA1633STD-.5 S/N:530.1 Points Across peak:24



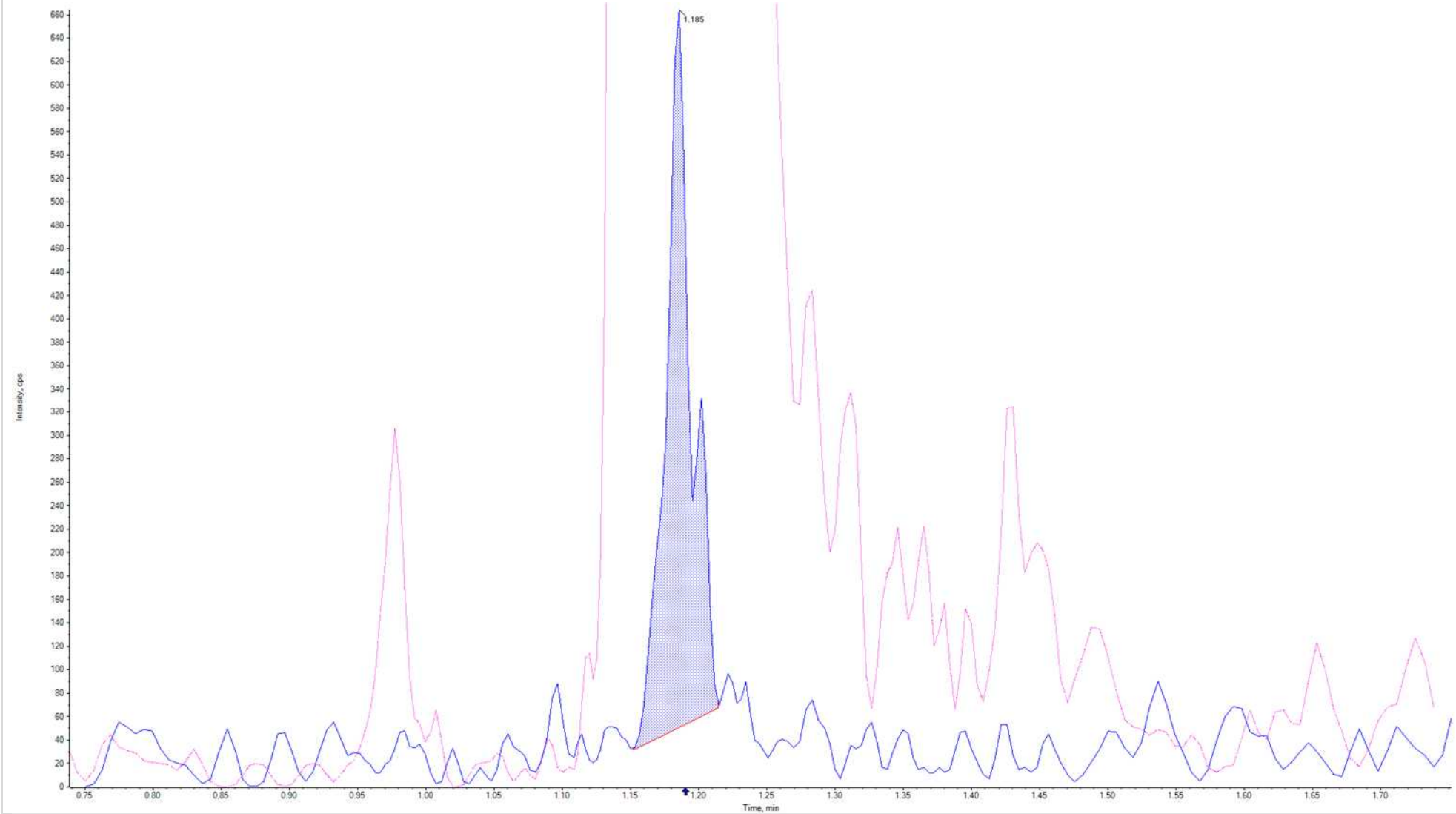
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Alpha Analytical LLC
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PFPeA
Sample: IA1633STD-.5 S/N:1495.9 Points Across peak:44



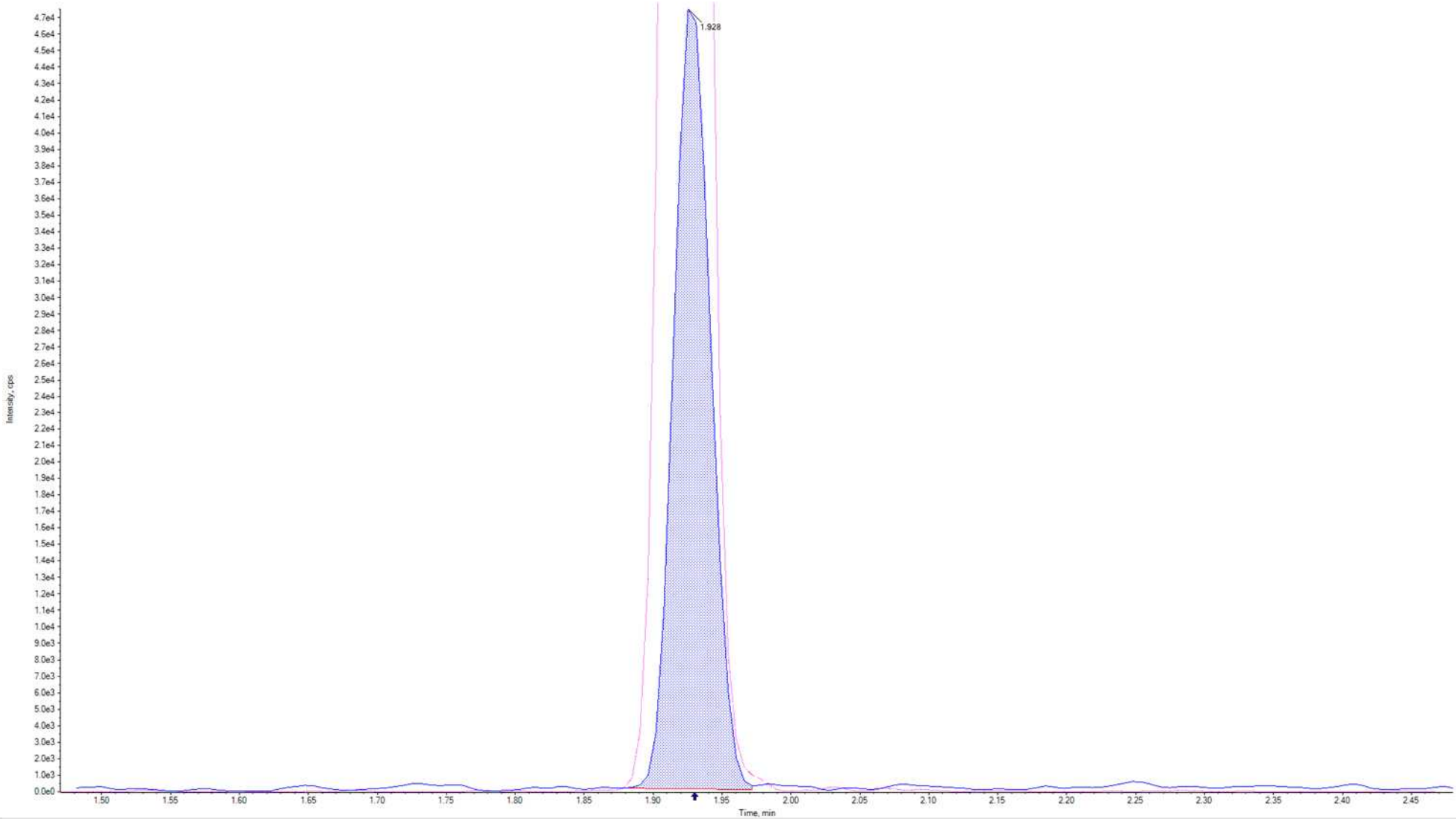
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Alpha Analytical LLC
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PFPeA_2
Sample: IA1633STD-.5 S/N:36.9 Points Across peak:21



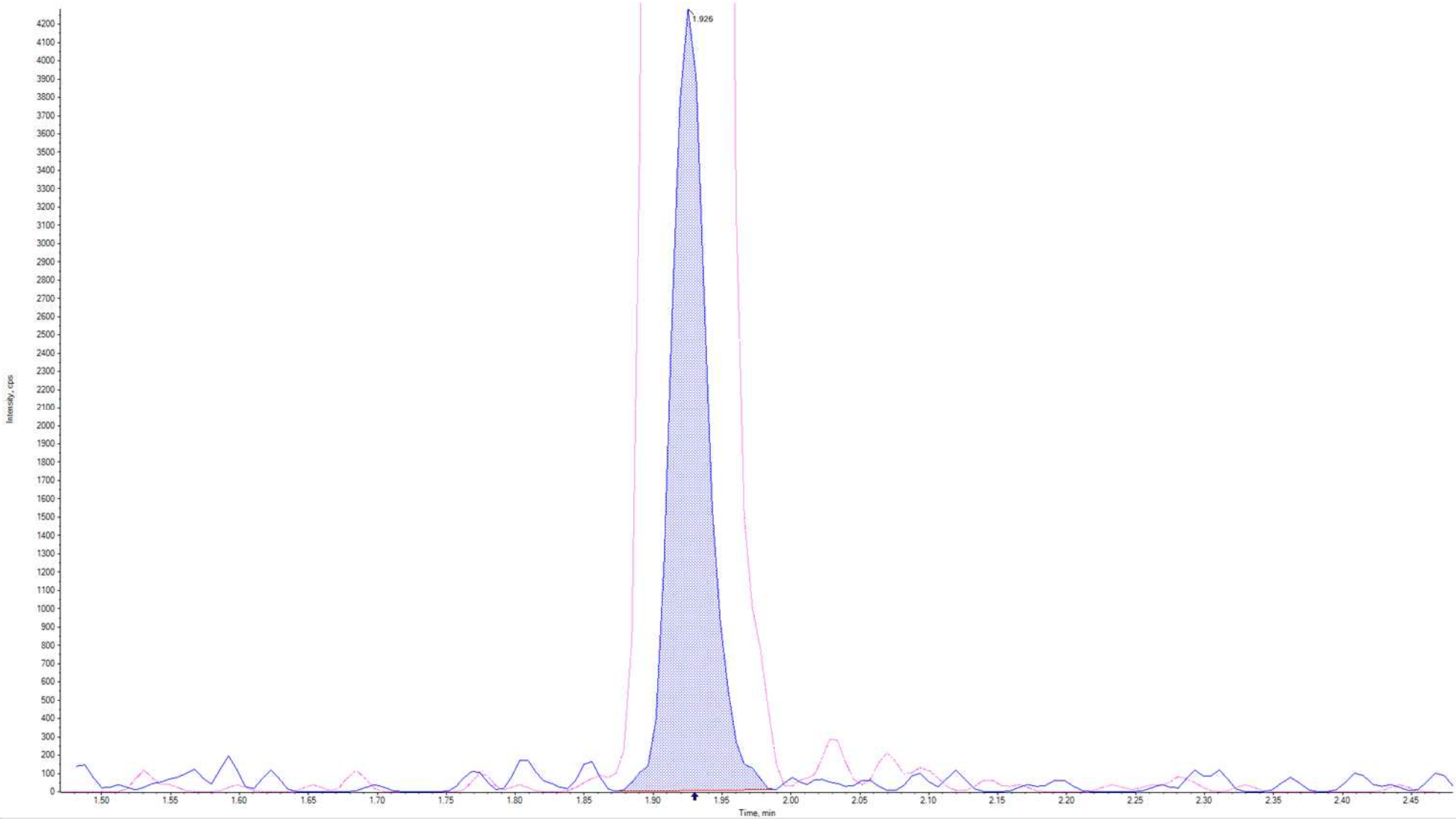
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Alpha Analytical LLC
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PFHxA
Sample: IA1633STD-.5 S/N:1186.4 Points Across peak:17



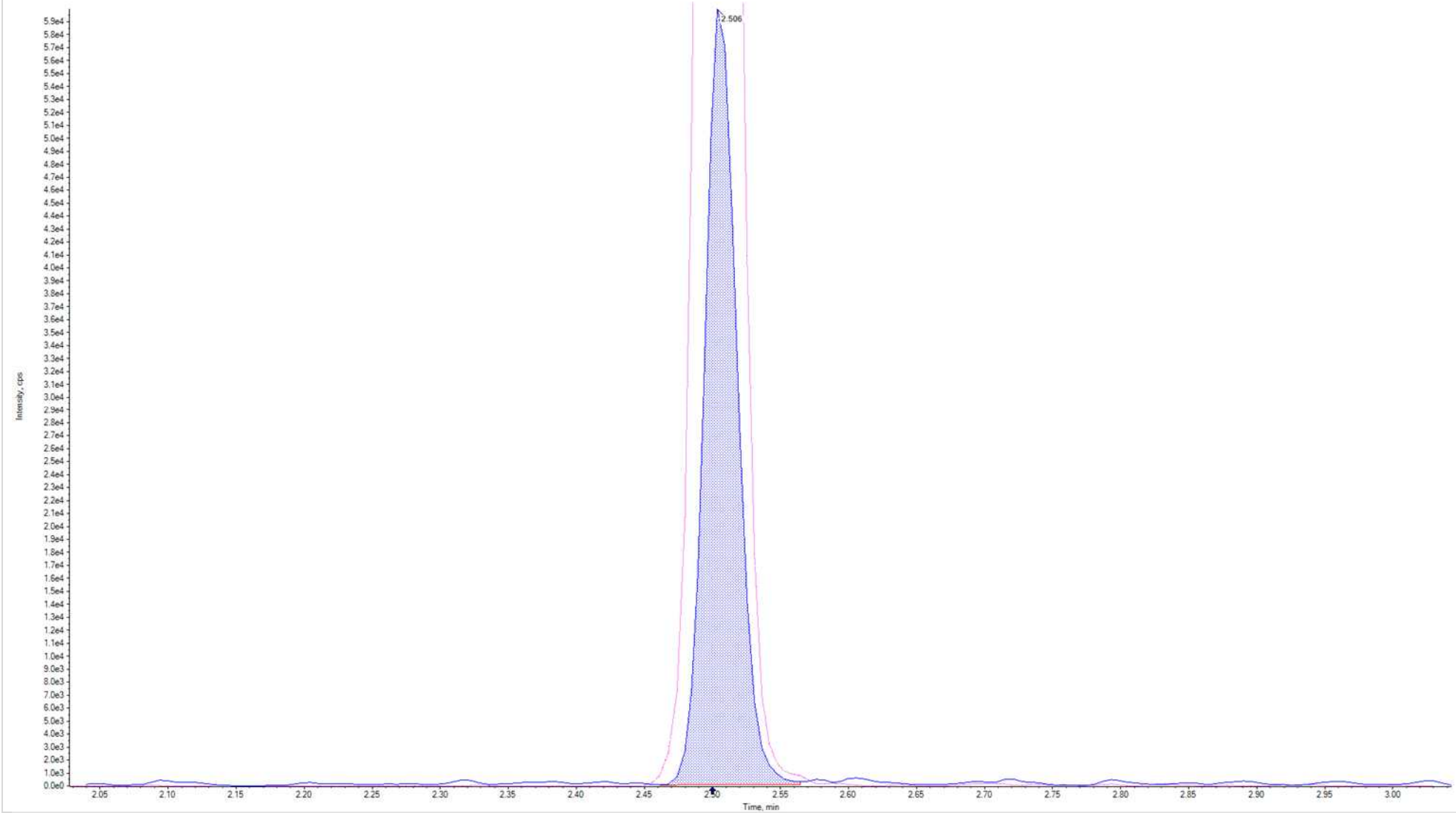
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Alpha Analytical LLC
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PFHxA_2
Sample: IA1633STD-.5 S/N:107.2 Points Across peak:21



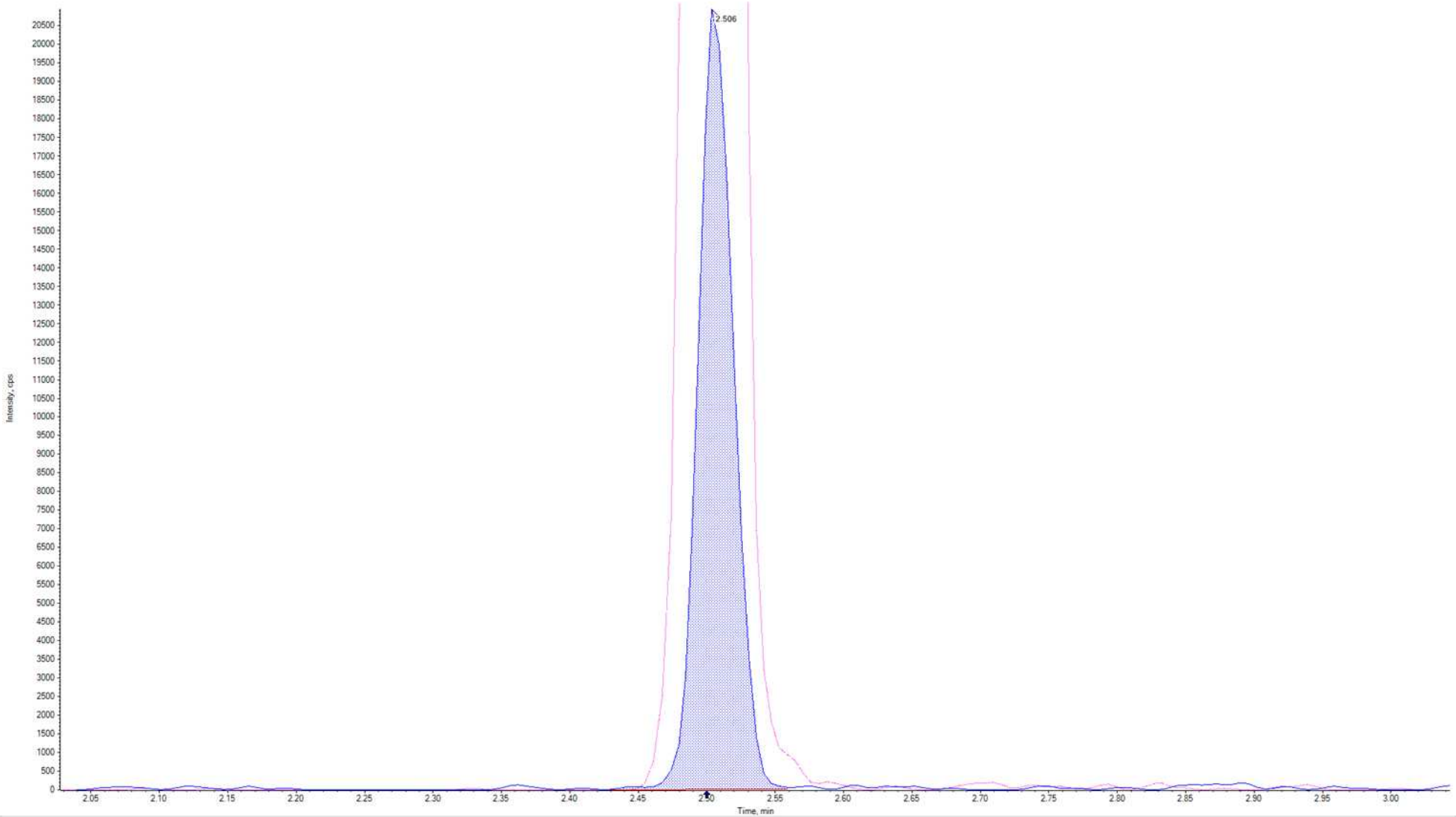
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Alpha Analytical LLC
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PFHpA
Sample: IA1633STD-.5 S/N:1200.8 Points Across peak:20



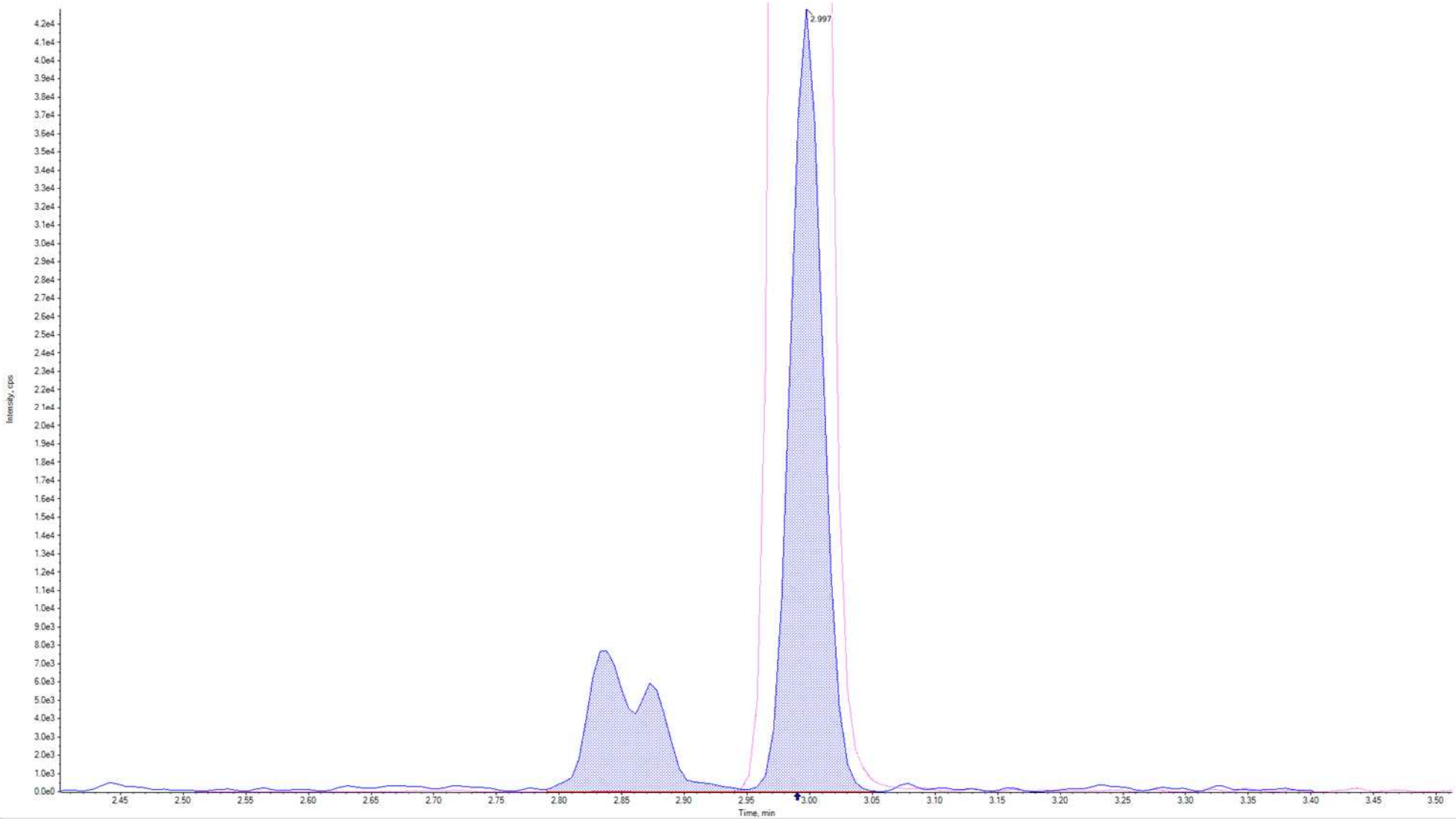
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Alpha Analytical LLC
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PFHpA_2
Sample: IA1633STD-.5 S/N:419.7 Points Across peak:25



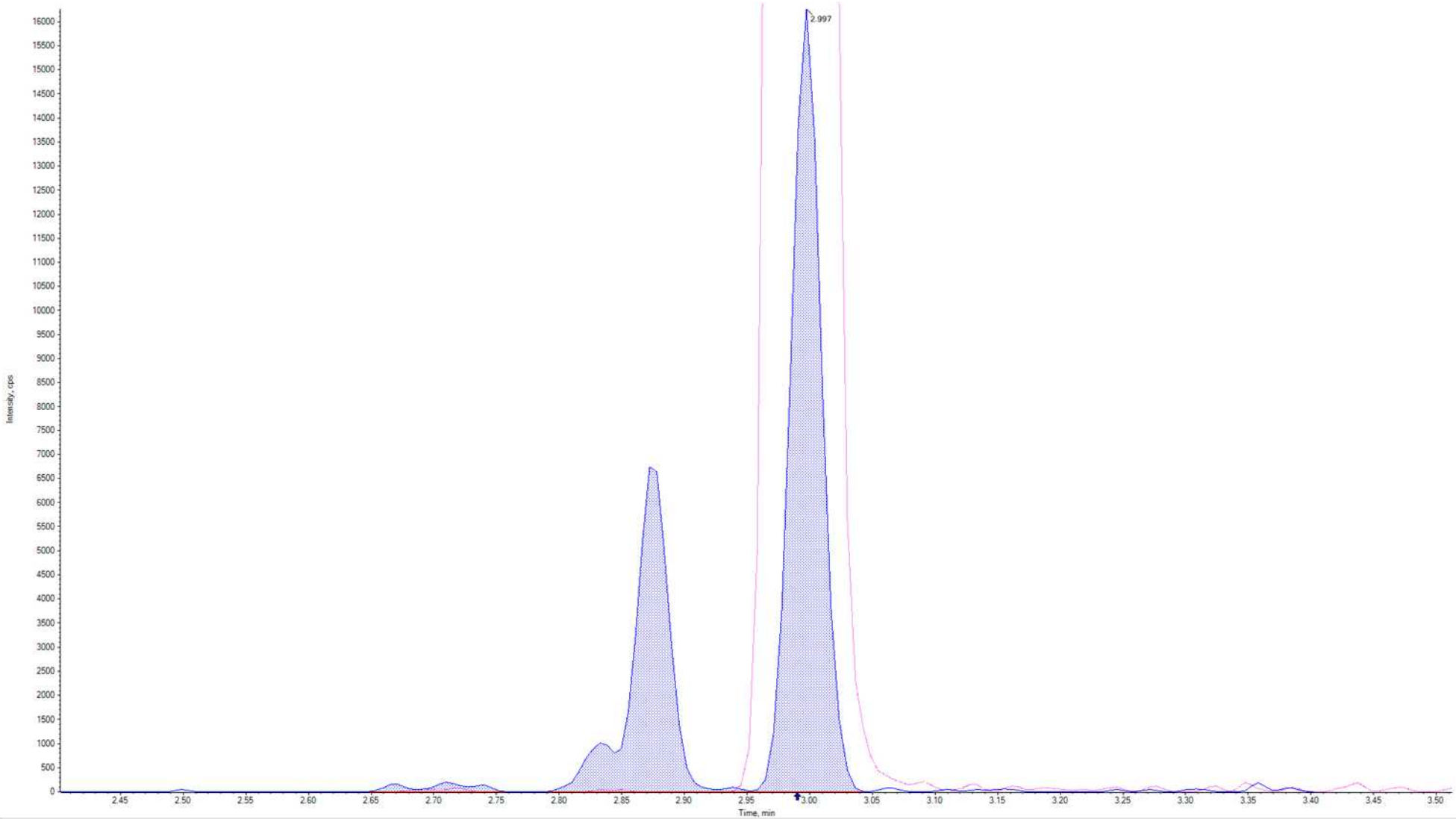
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Alpha Analytical LLC
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PFOA
Sample: IA1633STD-.5 S/N:304.3 Points Across peak:45



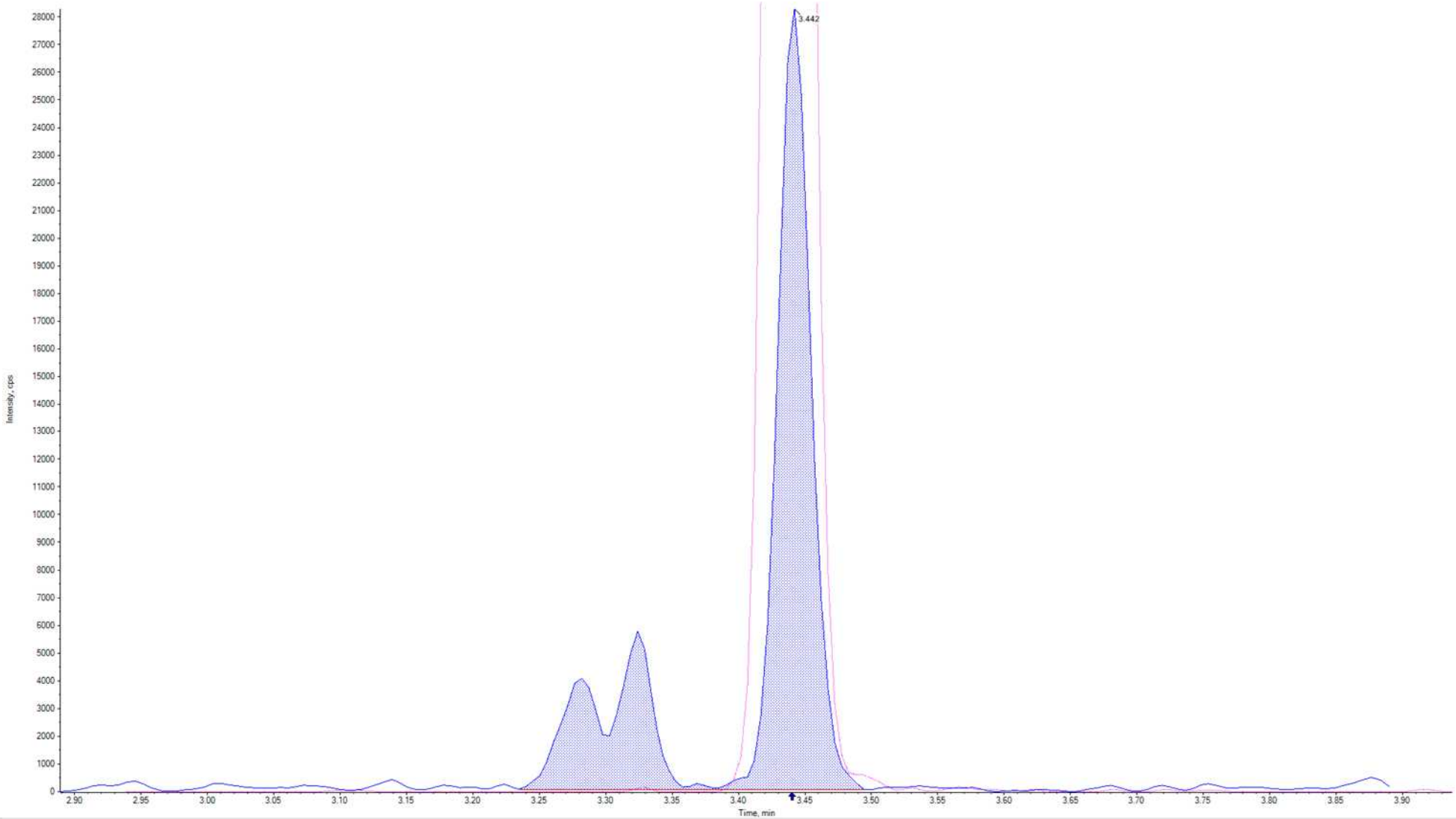
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Alpha Analytical LLC
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PFOA_2
Sample: IA1633STD-.5 S/N:344.8 Points Across peak:67



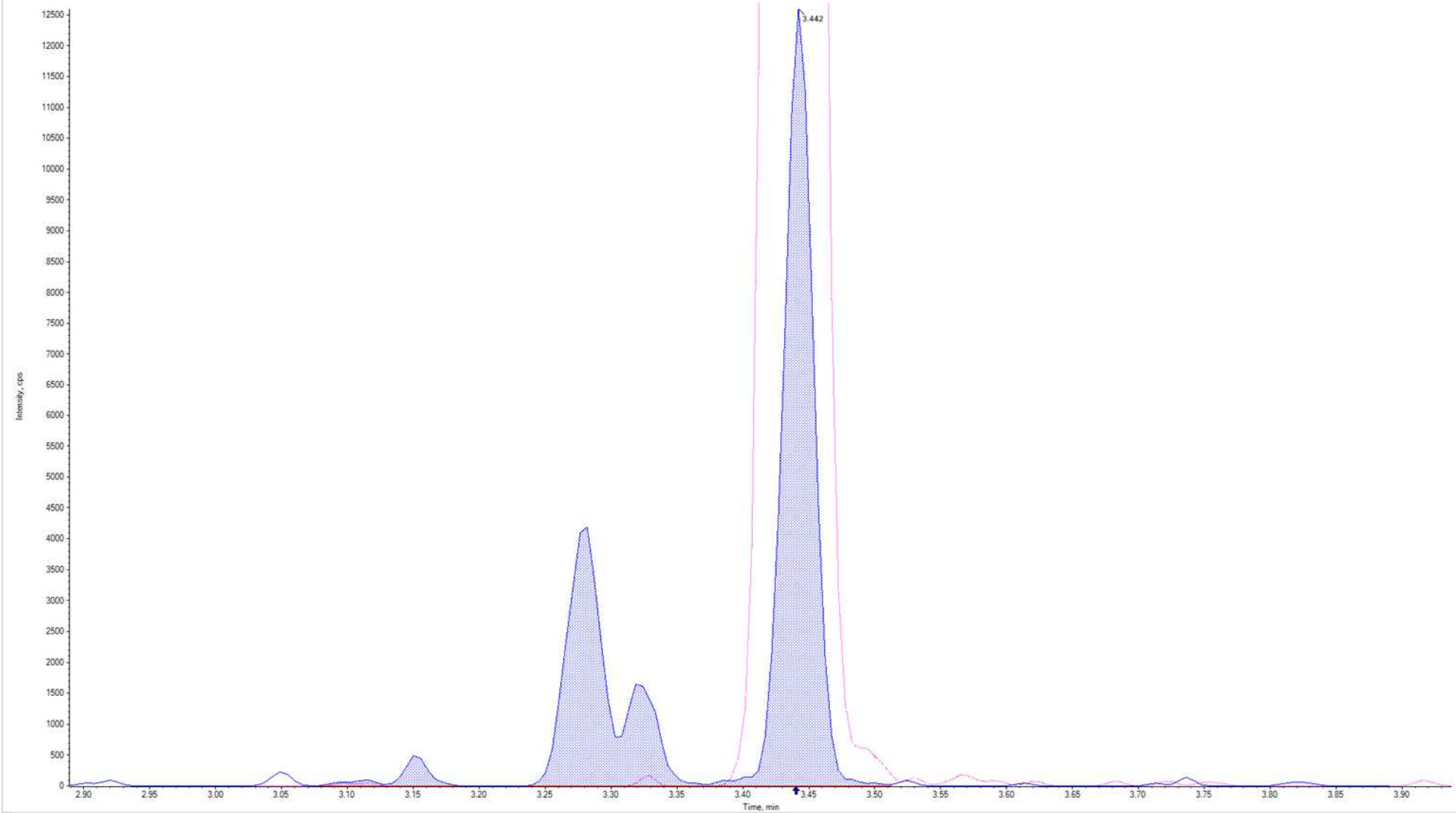
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PFNA
Sample: IA1633STD-.5 S/N:266.5 Points Across peak:52



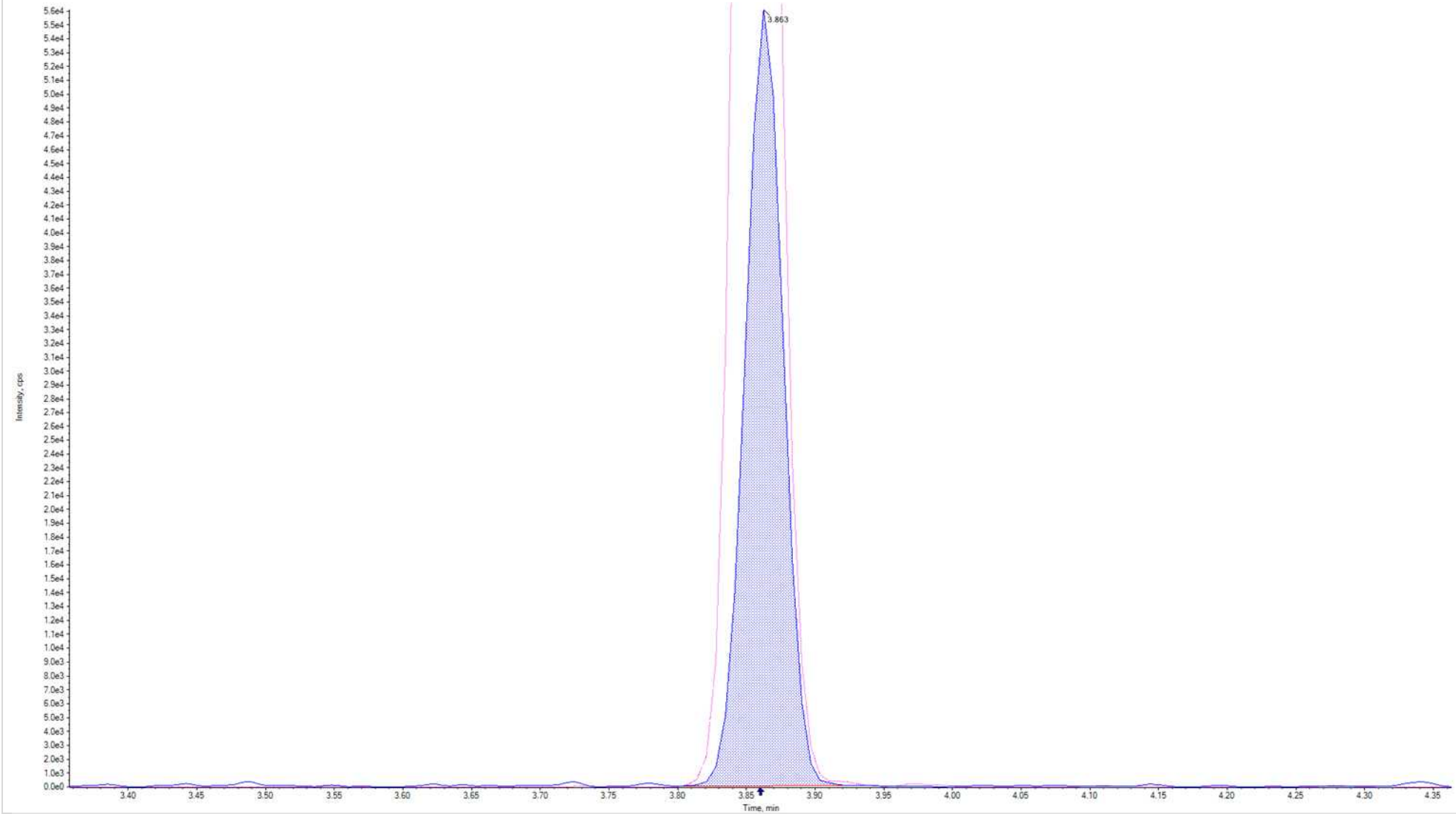
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Alpha Analytical LLC
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PFNA_2
Sample: IA1633STD-.5 S/N:262.1 Points Across peak:82



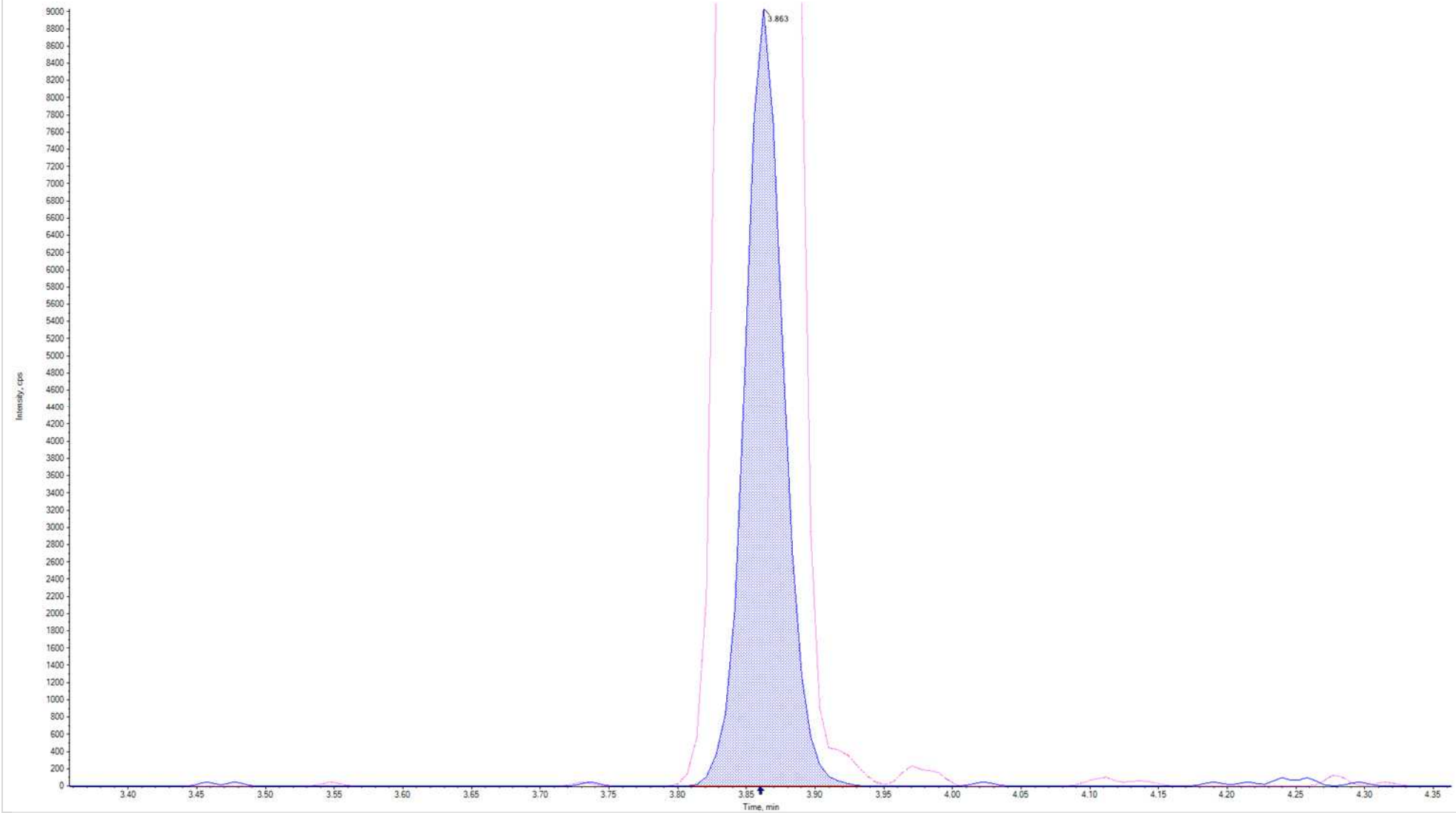
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PFDA
Sample: IA1633STD-.5 S/N:1123.2 Points Across peak:20



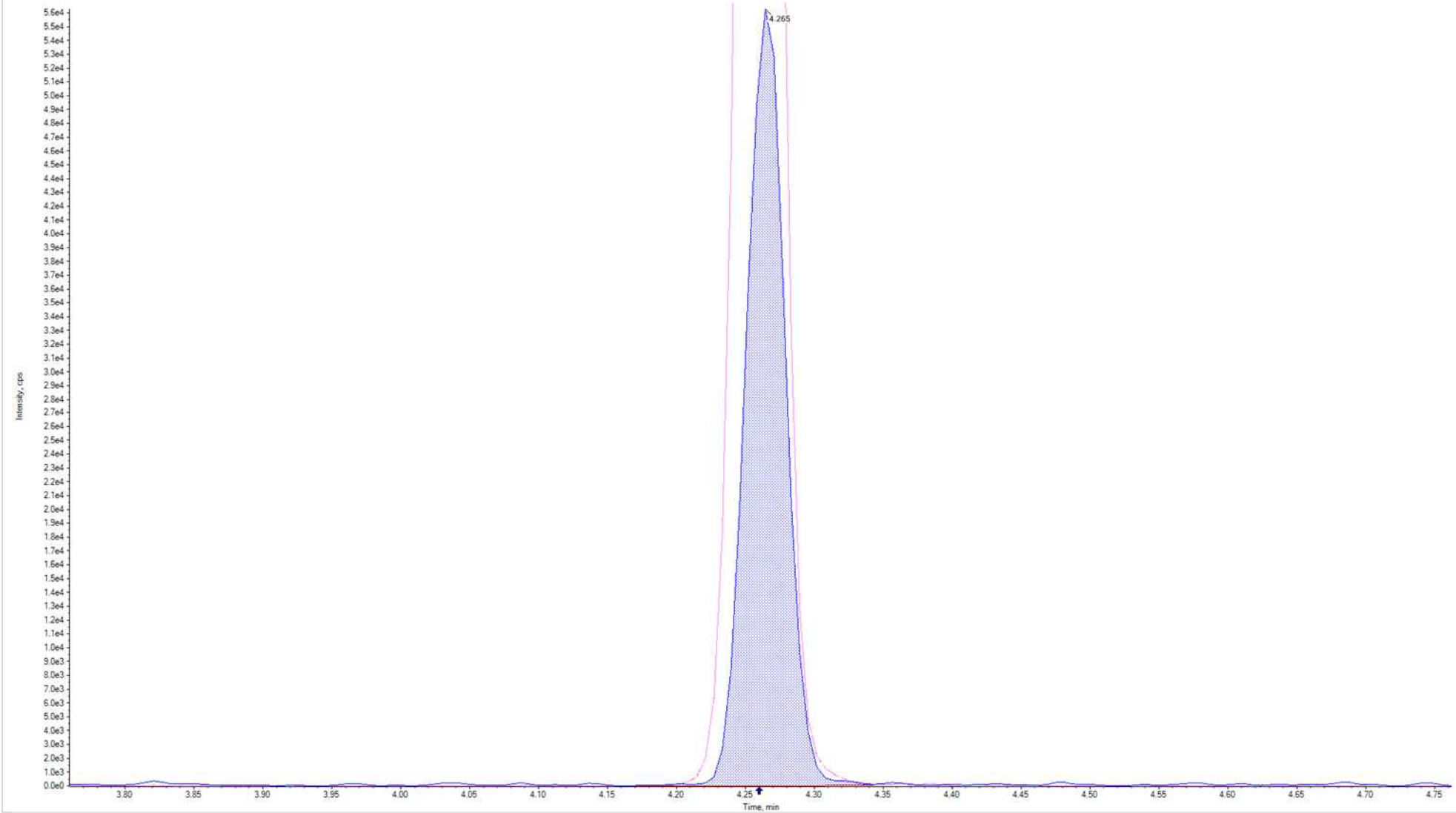
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Alpha Analytical LLC
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PFDA_2
Sample: IA1633STD-.5 S/N:181.1 Points Across peak:29



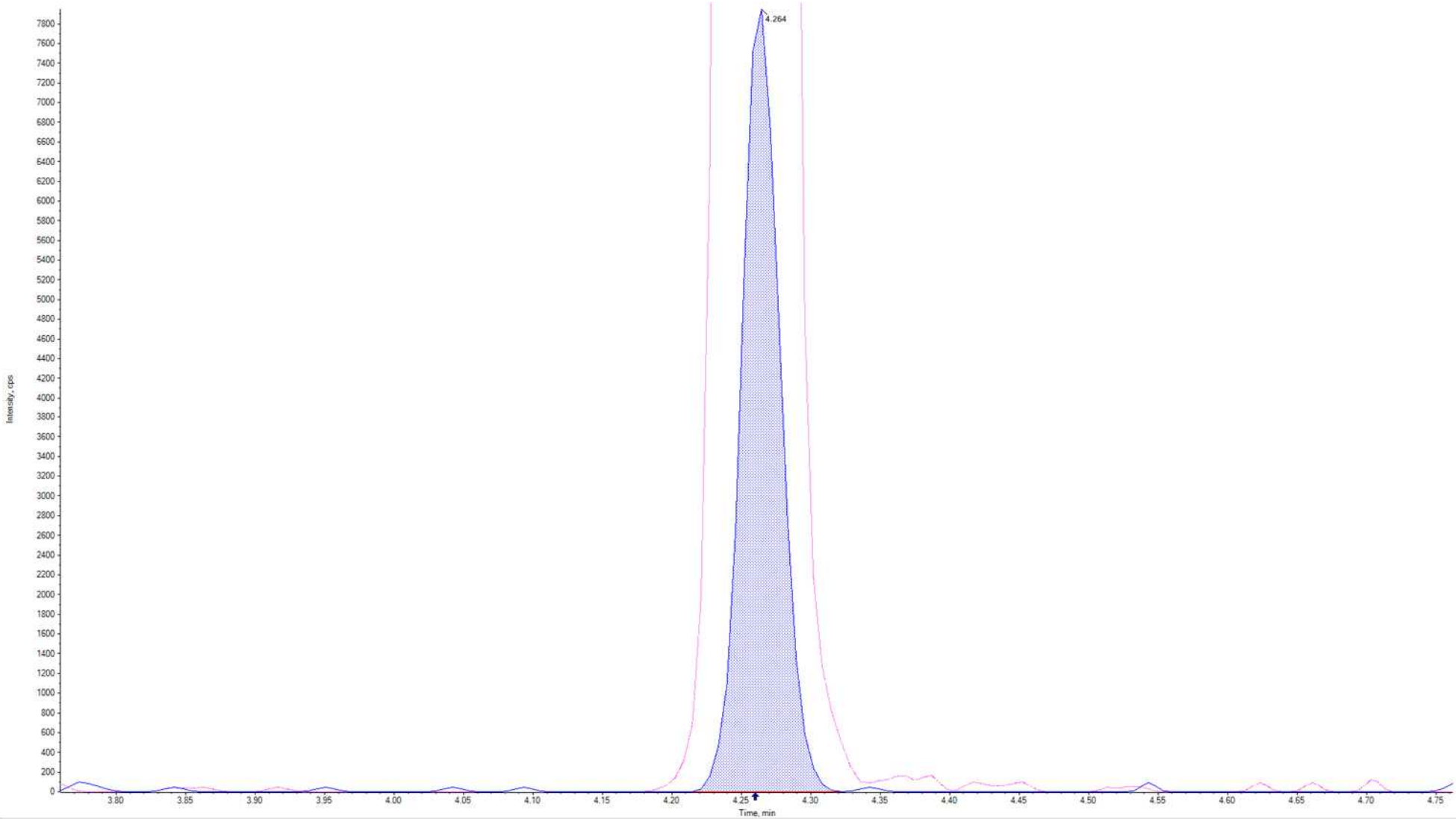
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PFUnA
Sample: IA1633STD-.5 S/N:1269.0 Points Across peak:29



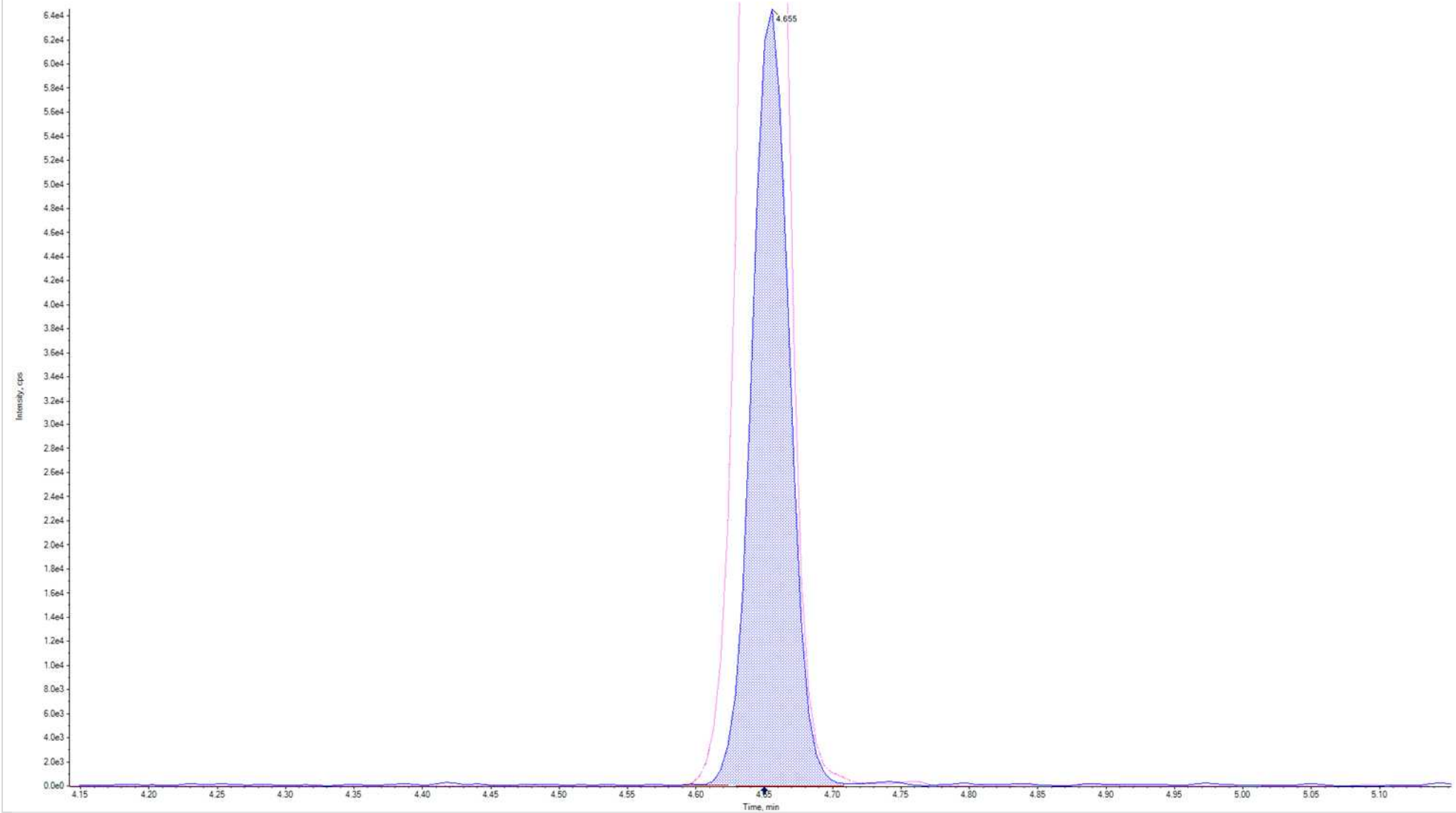
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PFUnA_2
Sample: IA1633STD-.5 S/N:179.3 Points Across peak:23



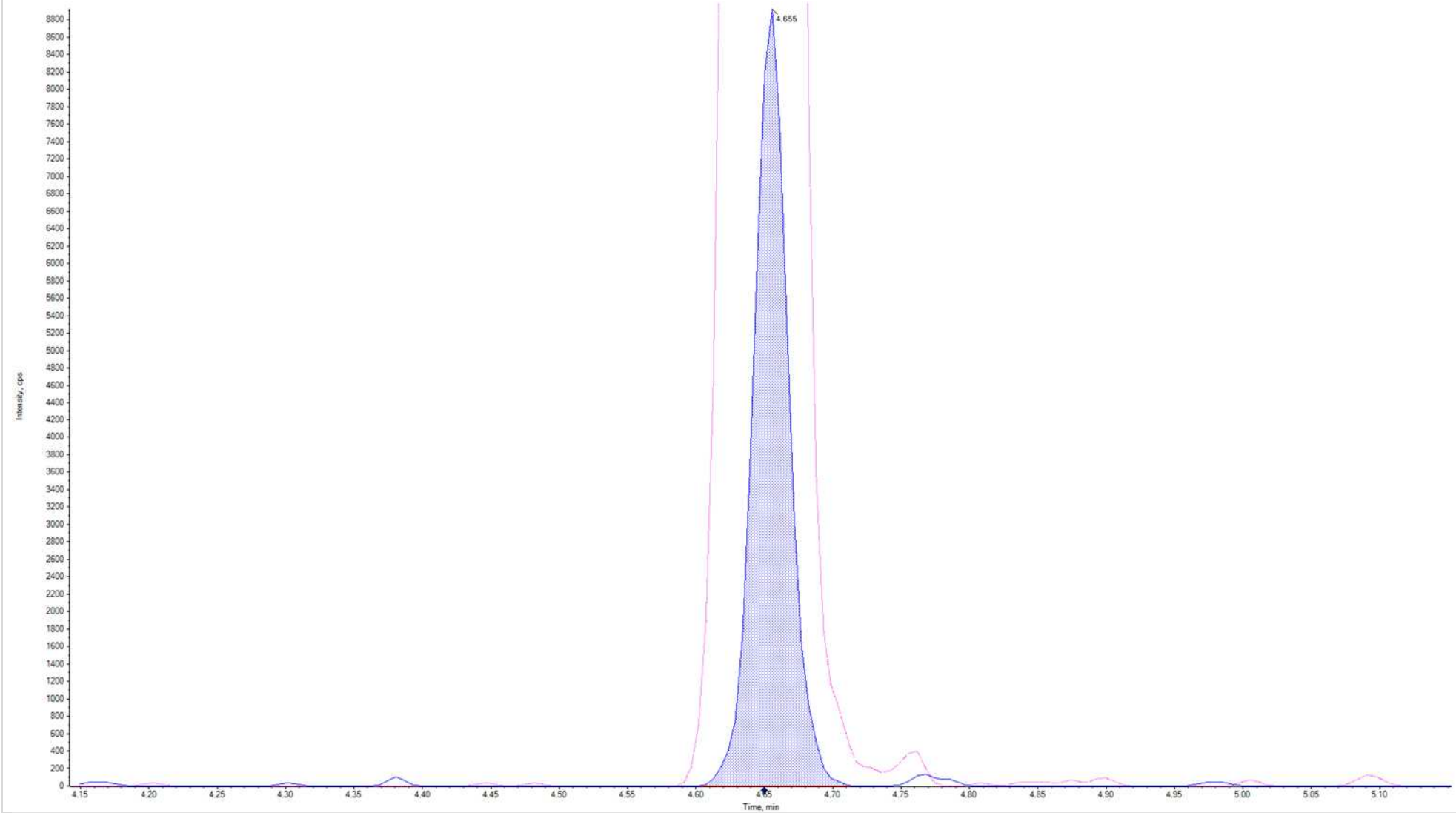
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PFDoA
Sample: IA1633STD-.5 S/N:1779.2 Points Across peak:24



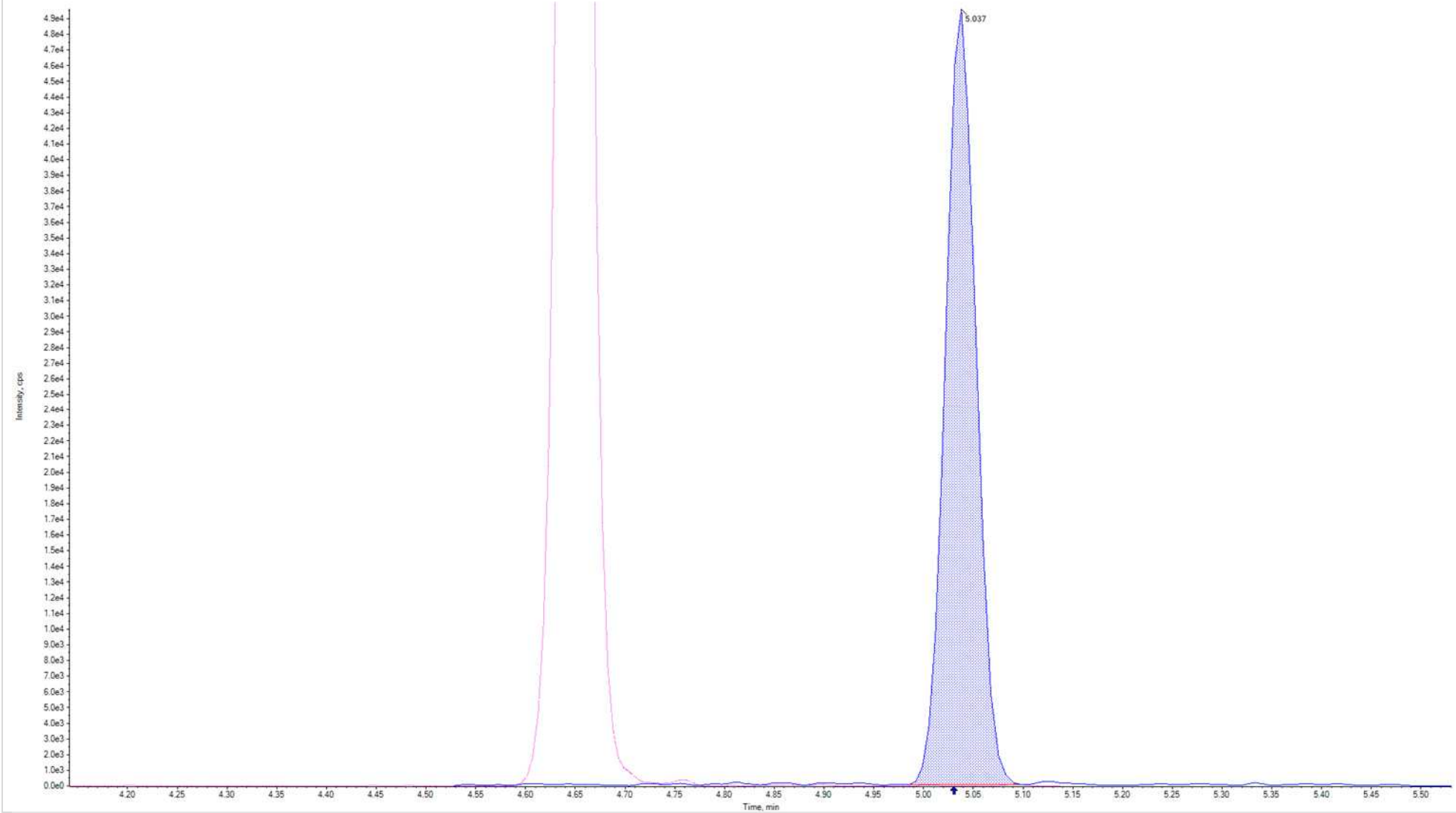
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PFDoA_2
Sample: IA1633STD-.5 S/N:245.9 Points Across peak:30



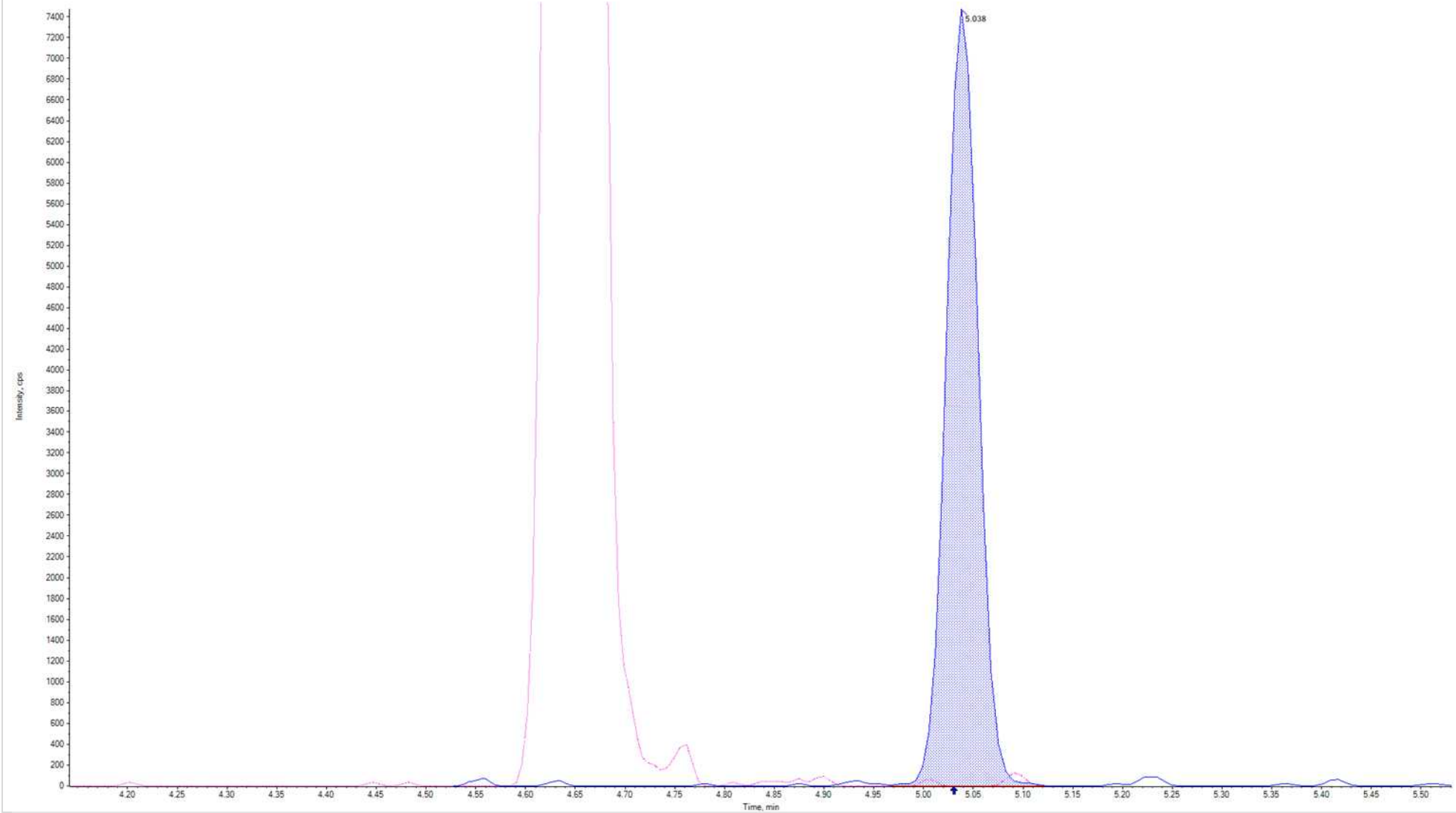
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PFTrDA
Sample: IA1633STD-.5 S/N:1986.4 Points Across peak:17



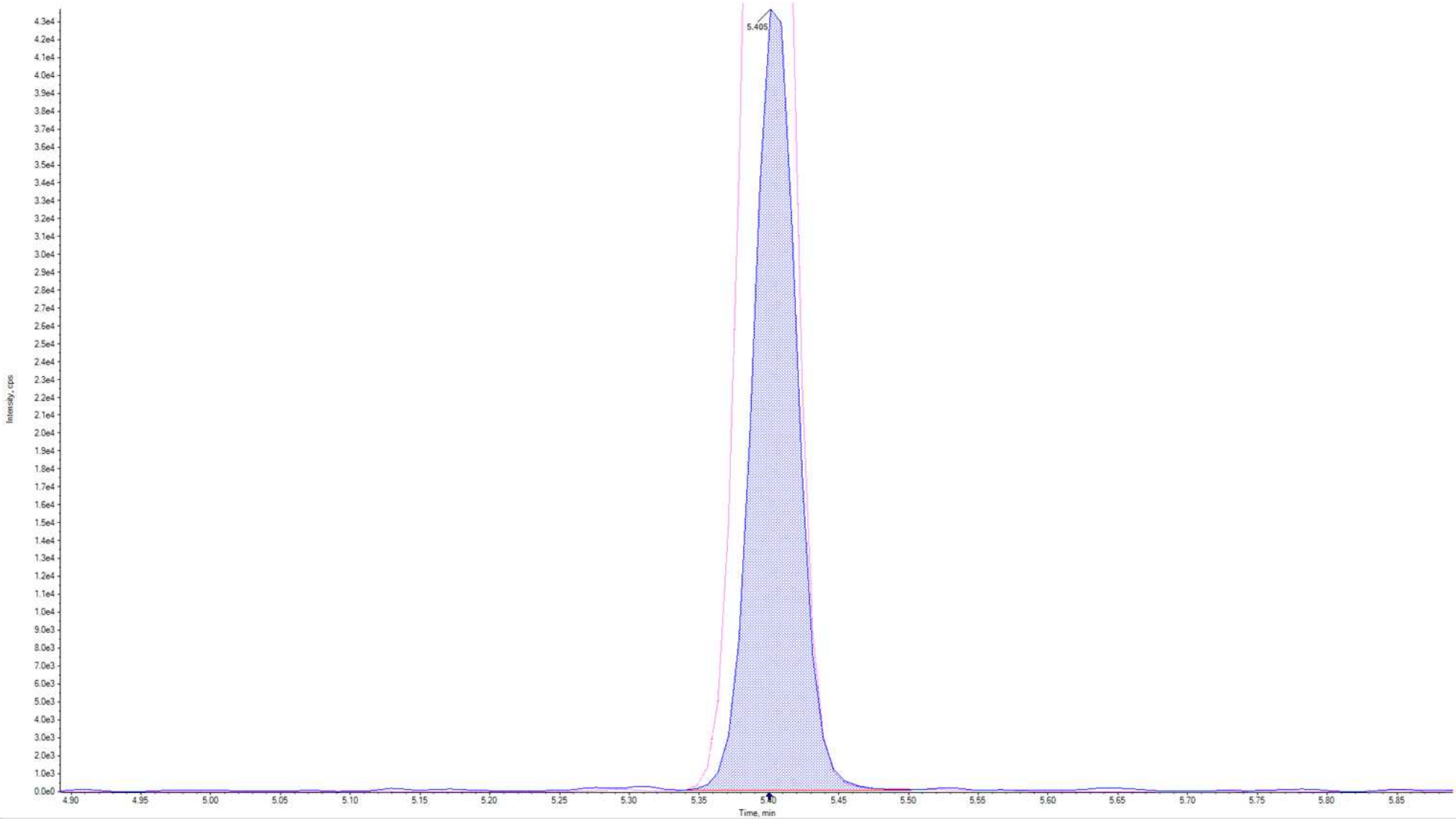
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PFTrDA_2
Sample: IA1633STD-.5 S/N:299.7 Points Across peak:25



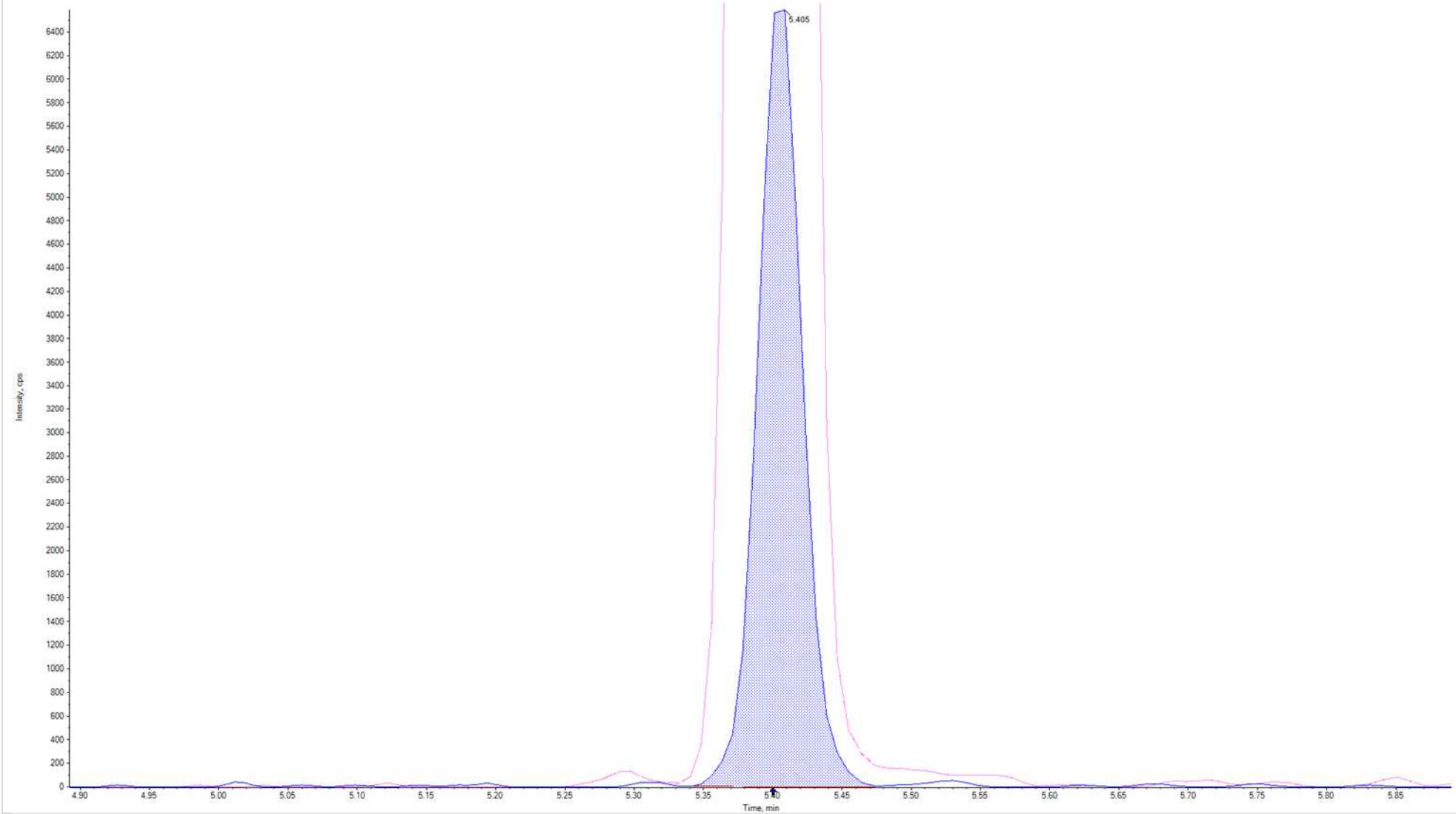
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PFTeDA
Sample: IA1633STD-.5 S/N:2732.1 Points Across peak:22



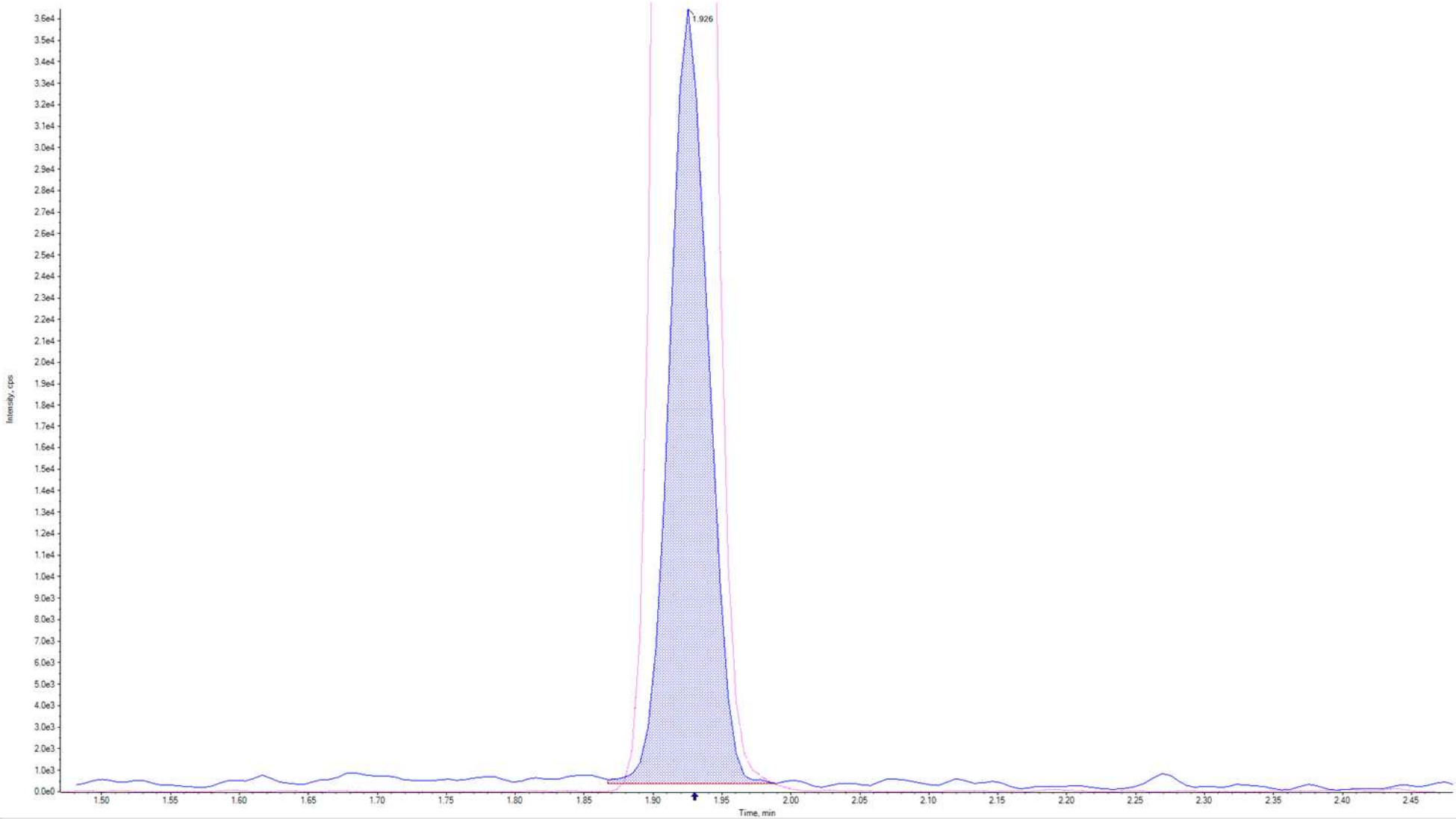
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PFTeDA_2
Sample: IA1633STD-.5 S/N:412.6 Points Across peak:18



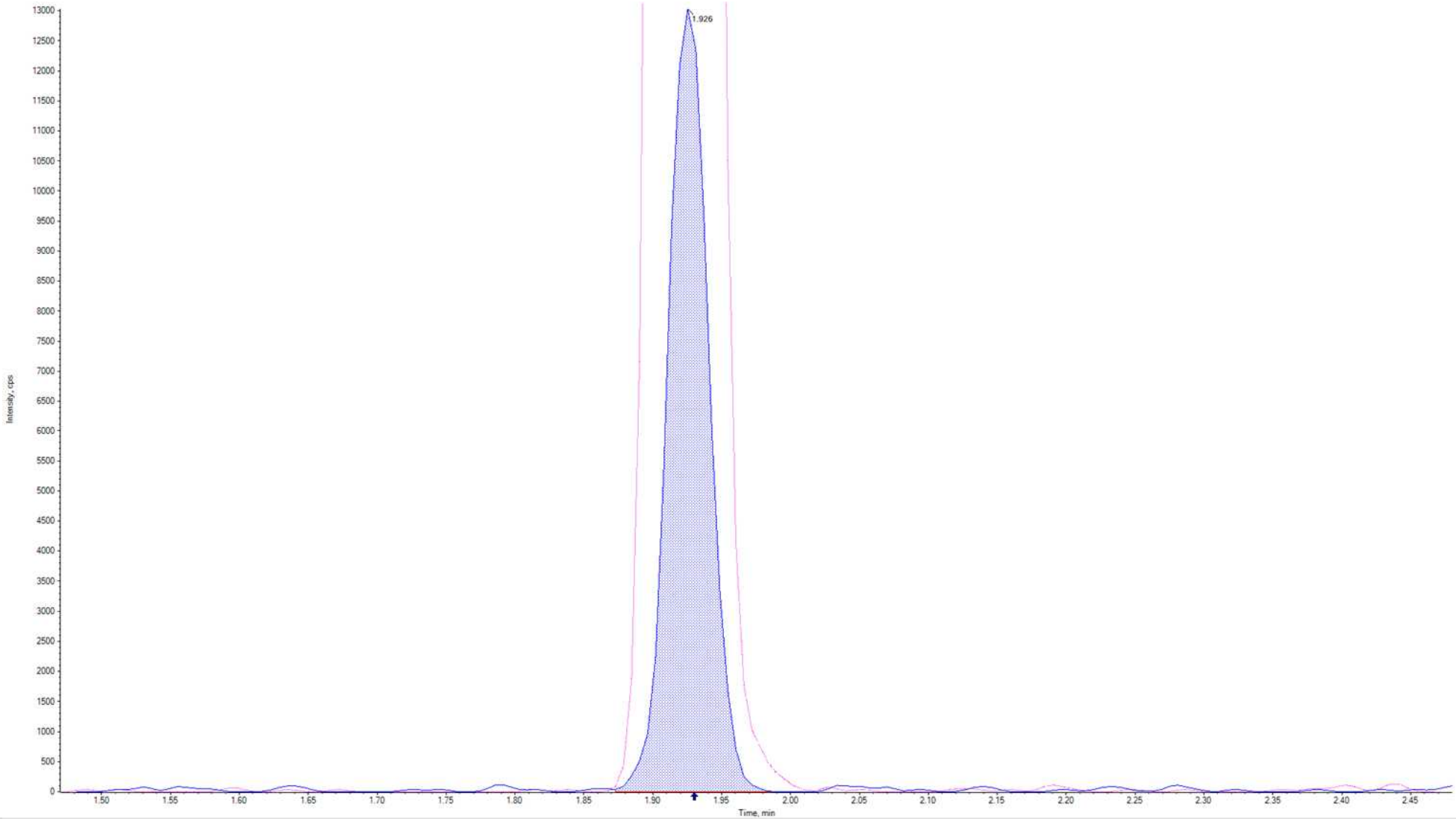
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PFBS
Sample: IA1633STD-.5 S/N:806.9 Points Across peak:22



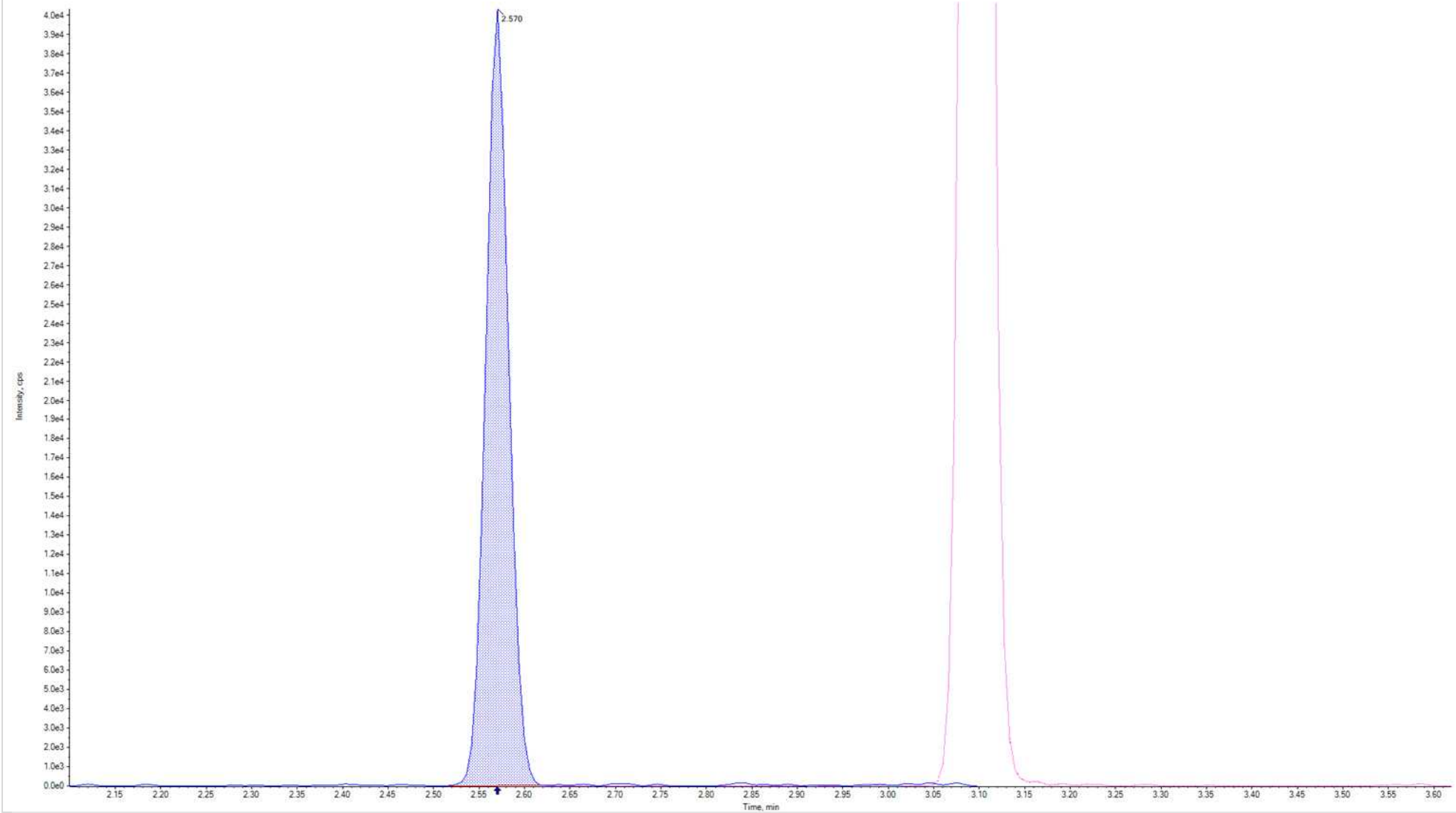
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PFBS_2
Sample: IA1633STD-.5 S/N:326.5 Points Across peak:23



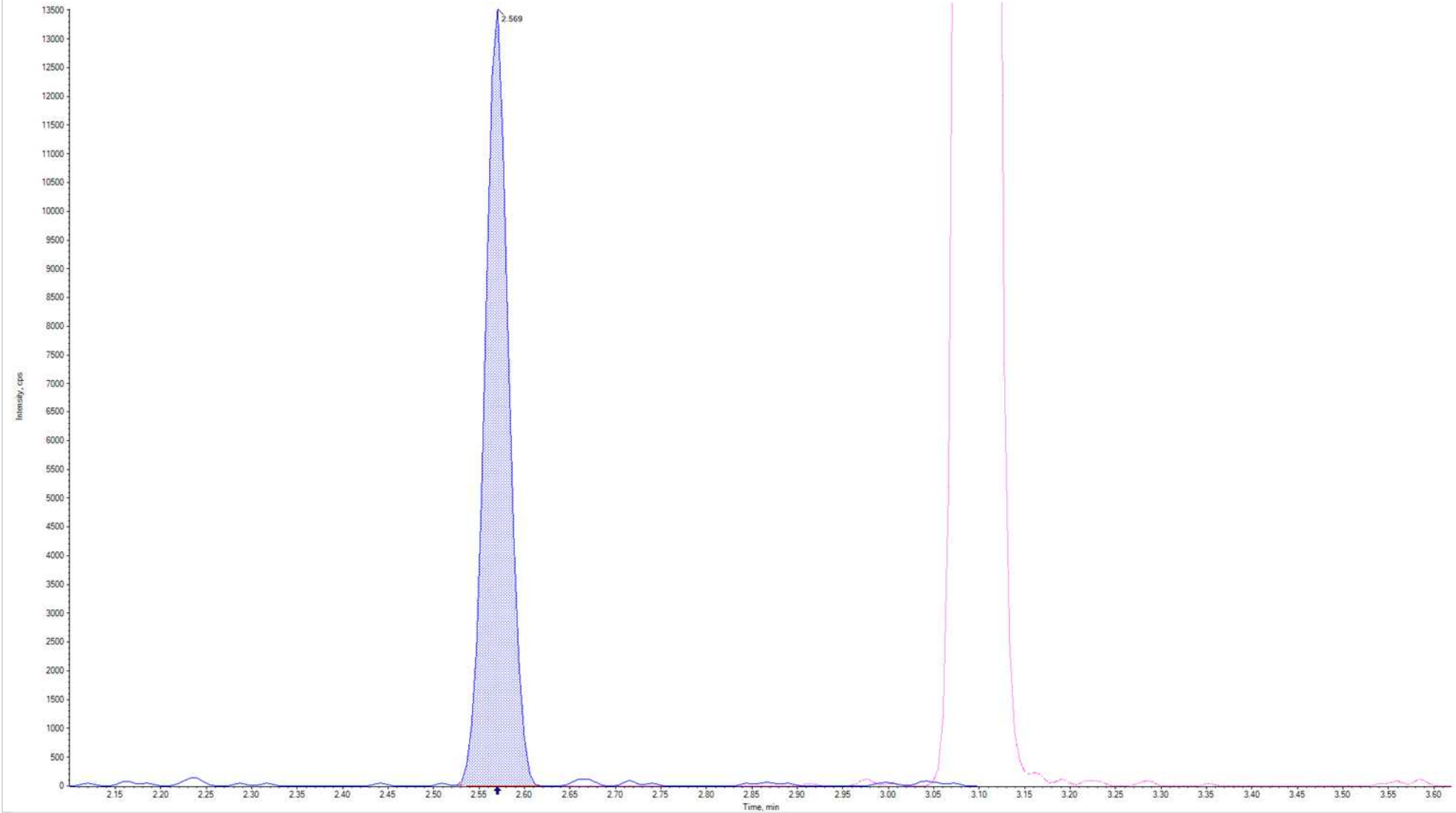
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Alpha Analytical LLC
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PFPeS
Sample: IA1633STD-.5 S/N:808.3 Points Across peak:21



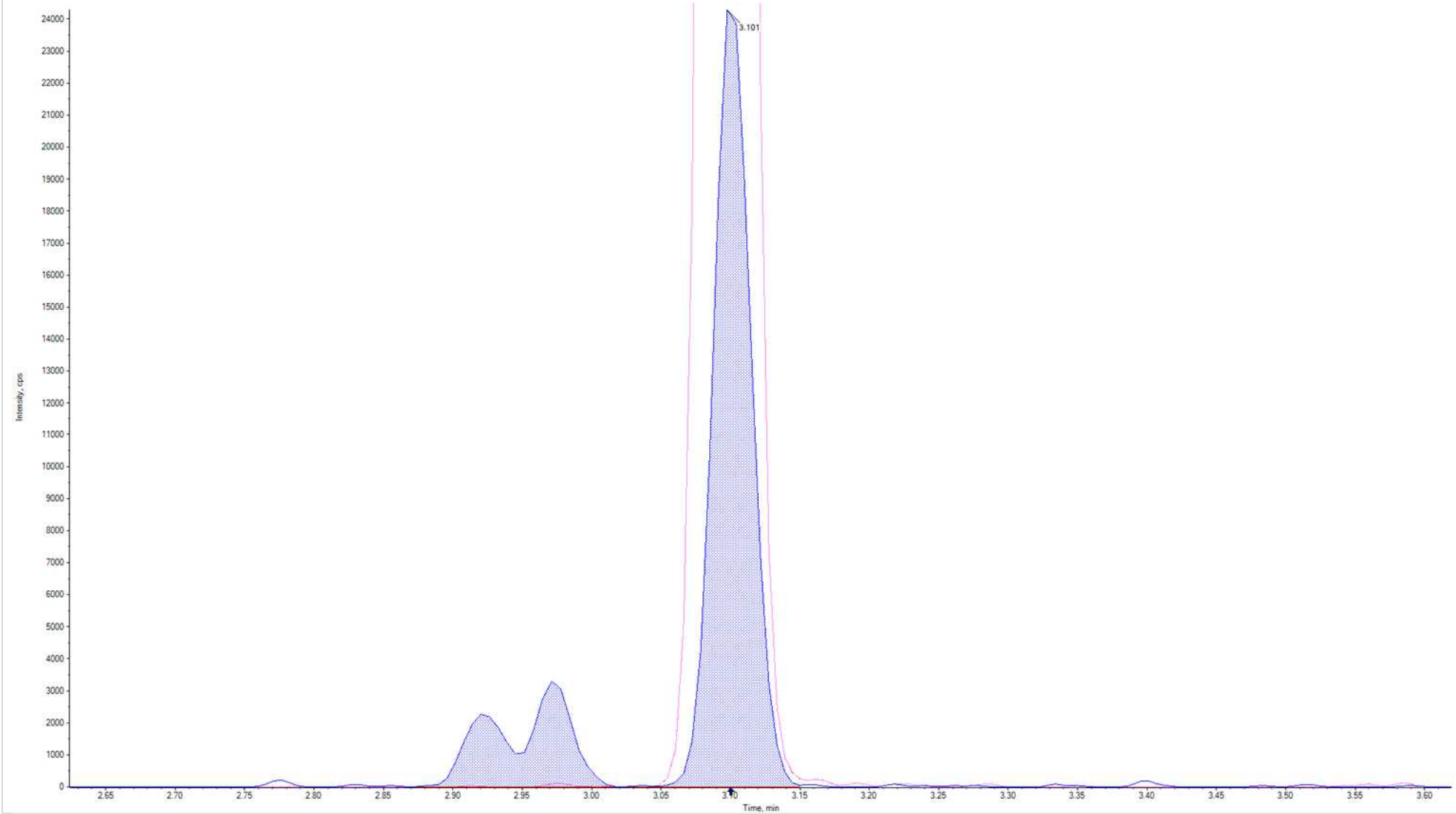
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PFPeS_2
Sample: IA1633STD-.5 S/N:271.0 Points Across peak:19



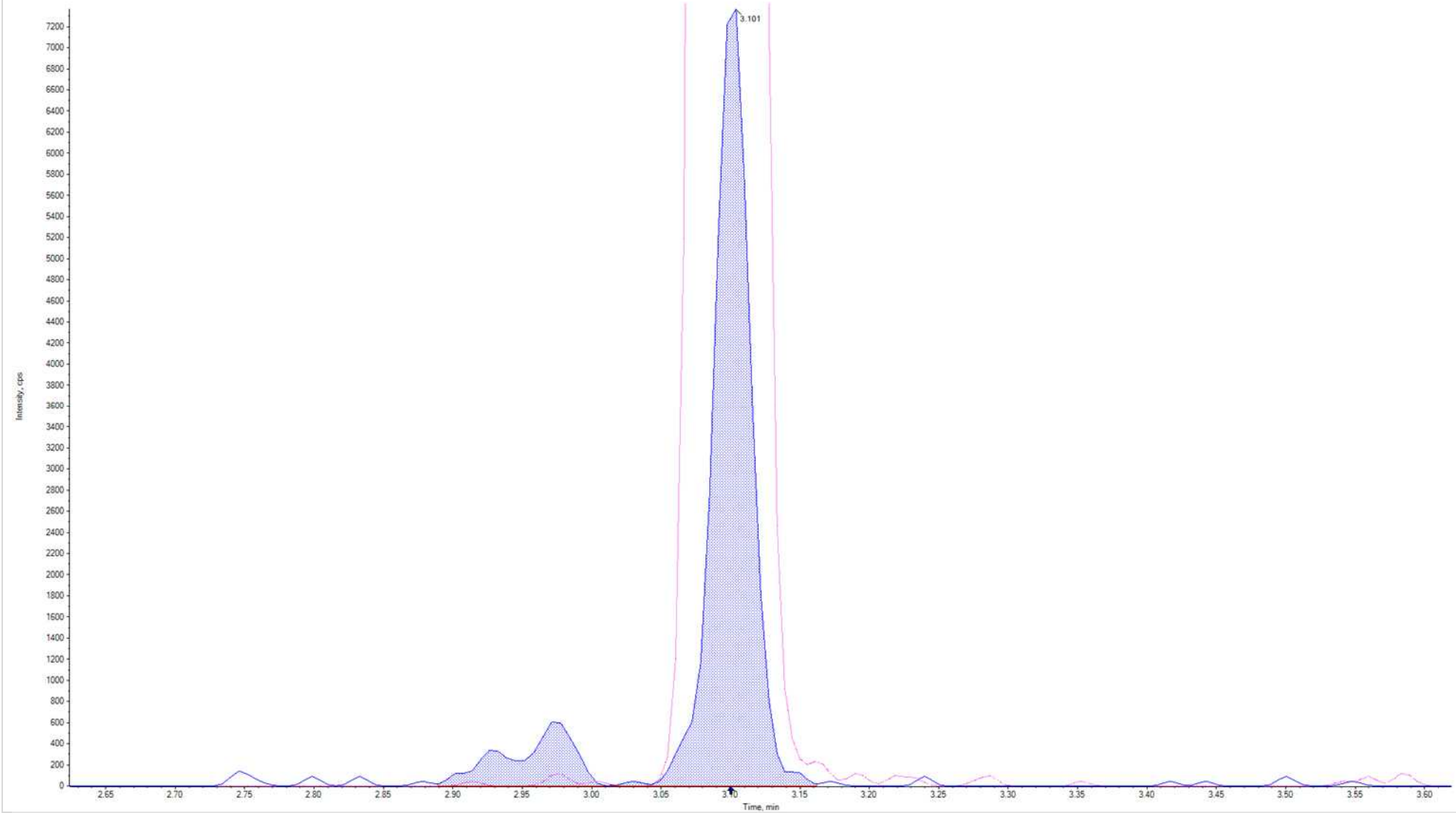
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Alpha Analytical LLC
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PFHxS
Sample: IA1633STD-.5 S/N:541.3 Points Across peak:47



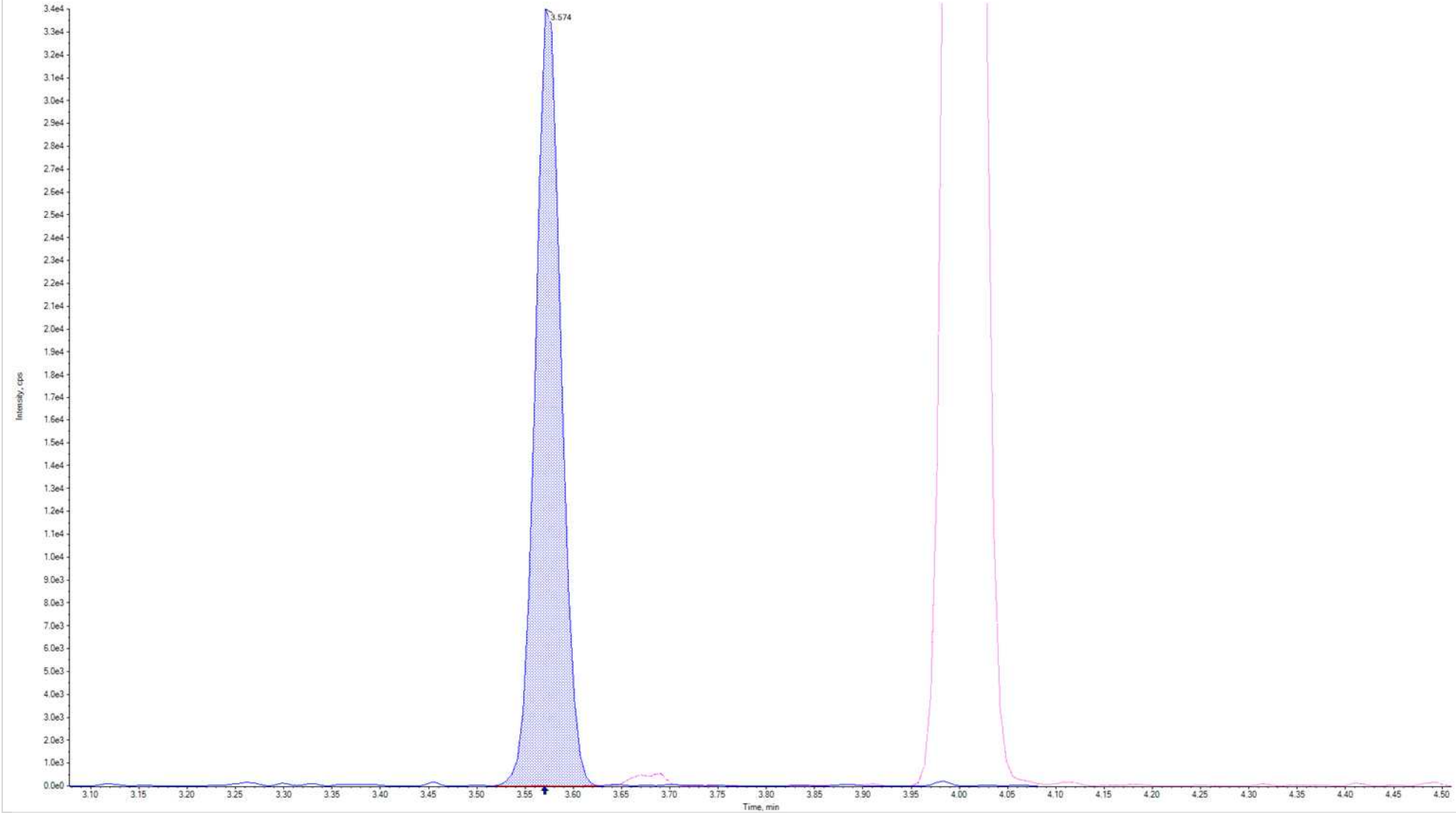
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHxS_2
Sample: IA1633STD-.5 S/N:166.2 Points Across peak:47



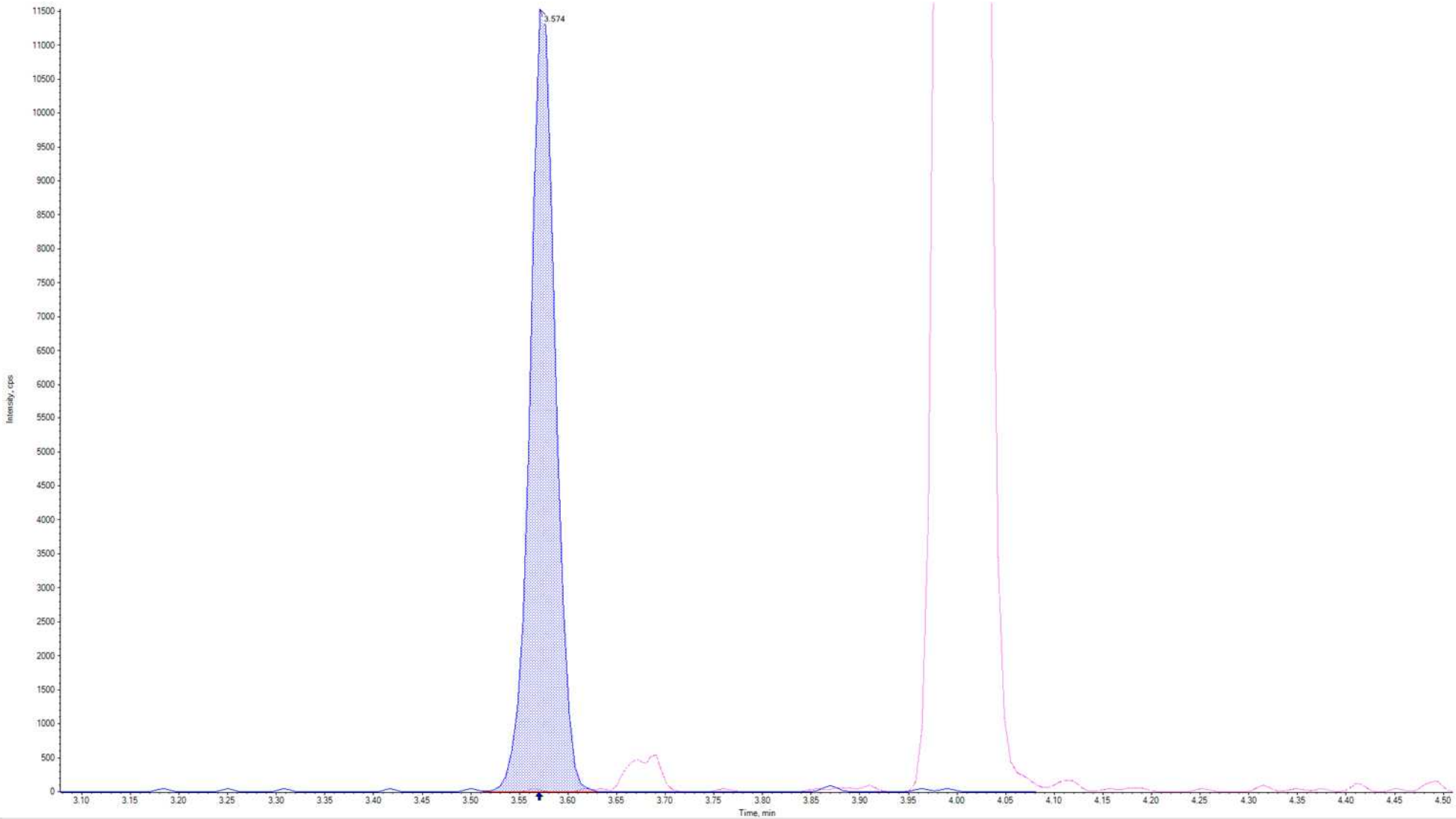
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFHpS
Sample: IA1633STD-.5 S/N:681.7 Points Across peak:21



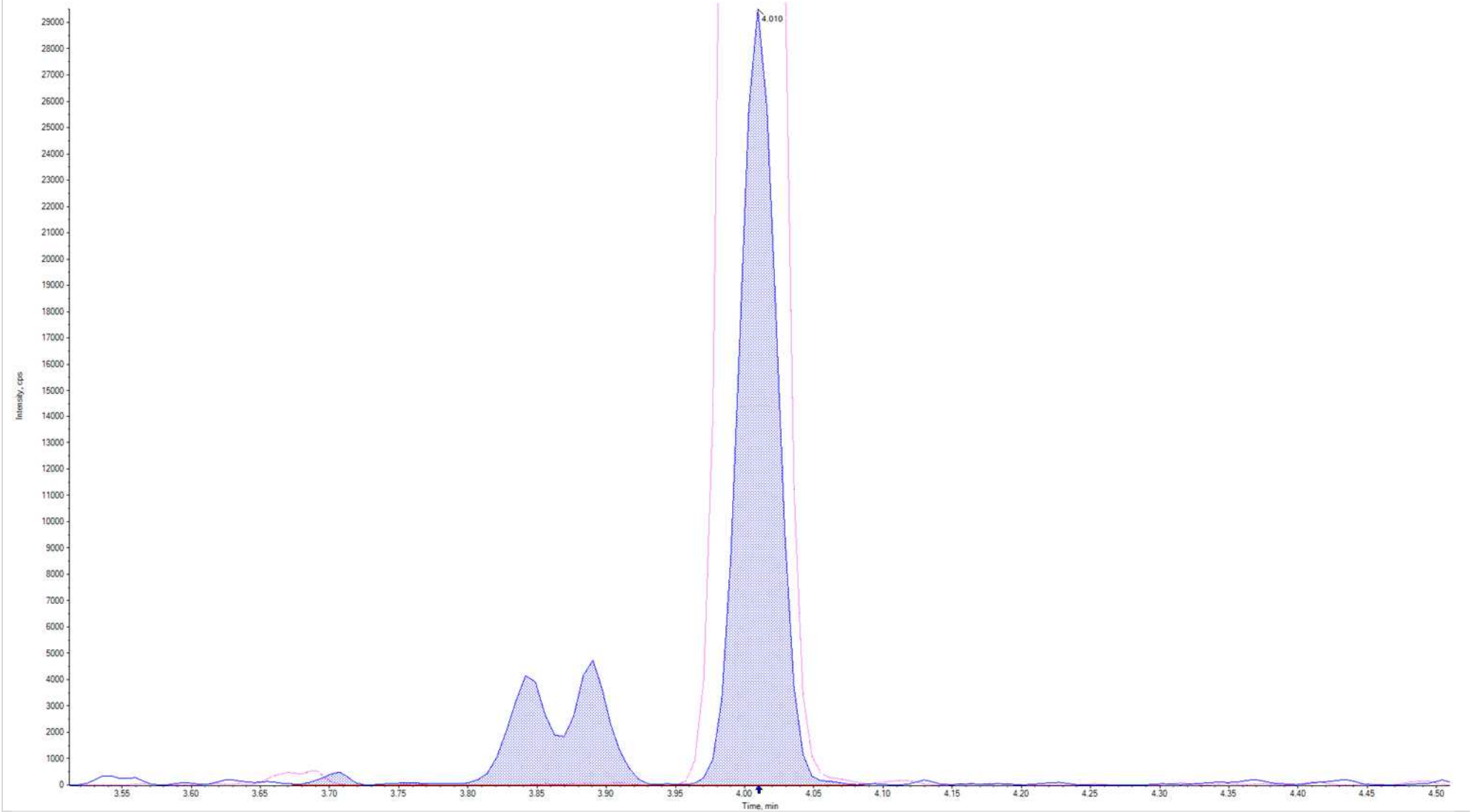
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

PFHpS_2
Sample: IA1633STD-.5 S/N:231.2 Points Across peak:27



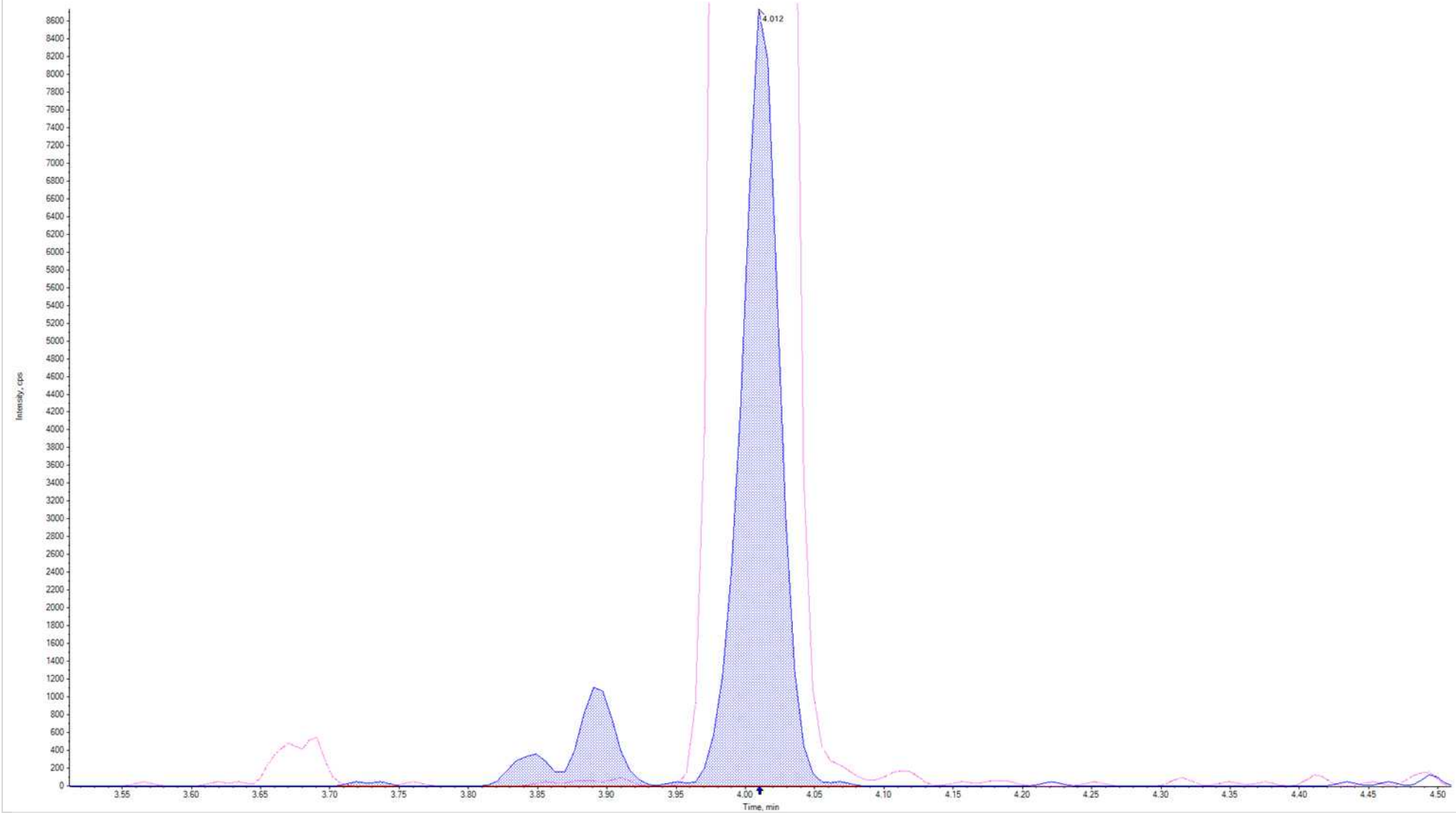
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOS
Sample: IA1633STD-.5 S/N:292.2 Points Across peak:66



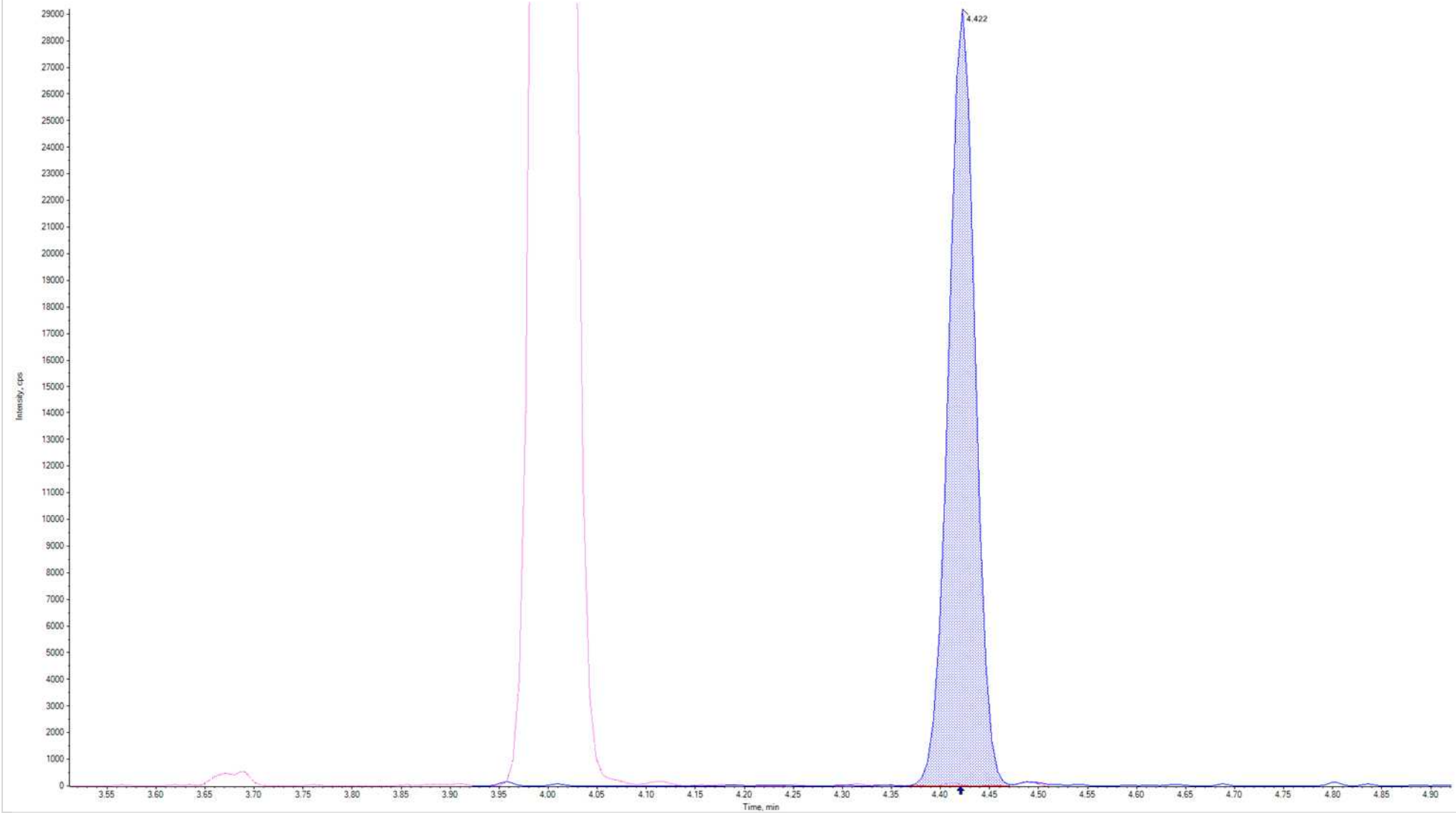
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOS_2
Sample: IA1633STD-.5 S/N:175.1 Points Across peak:60



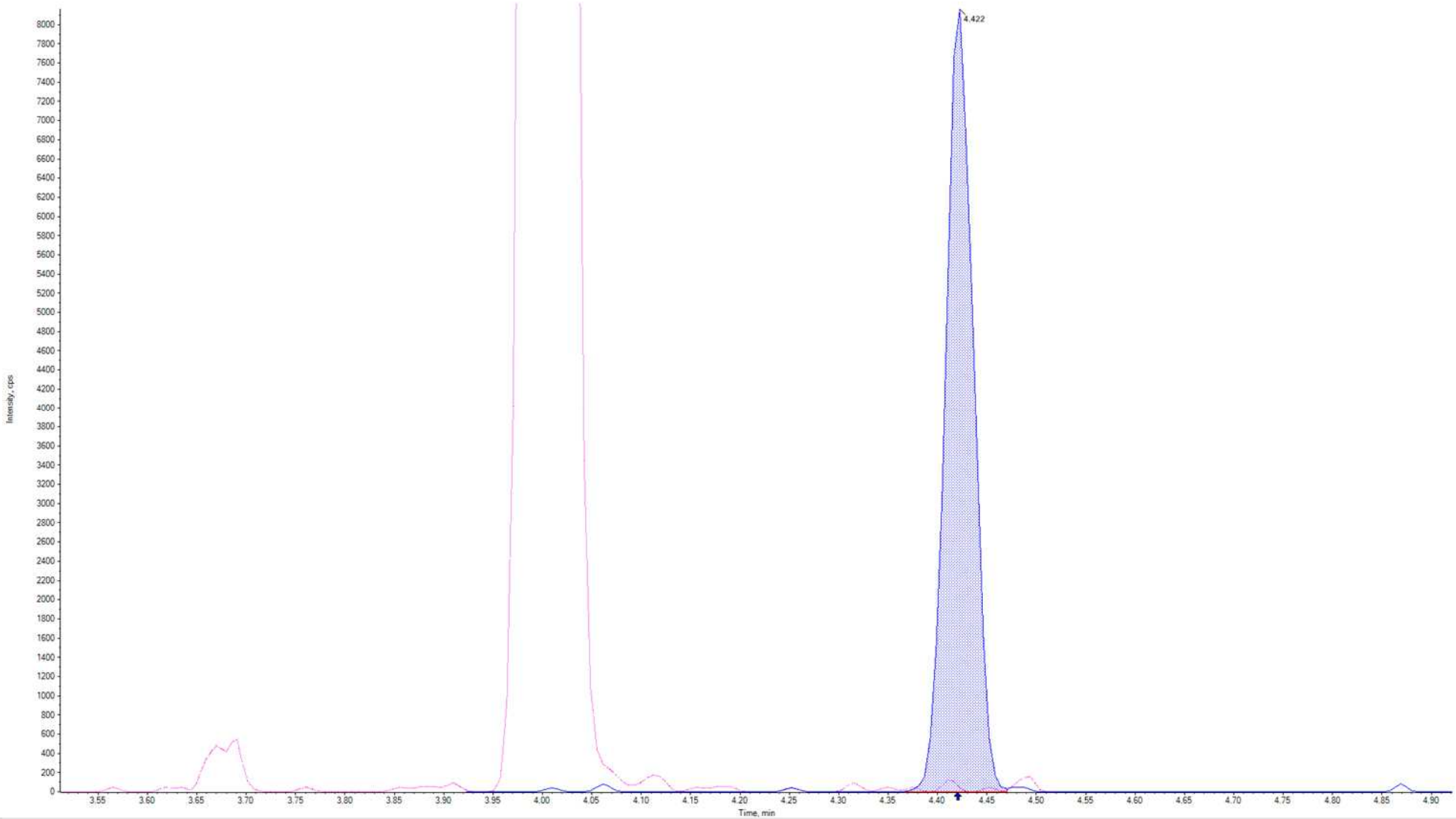
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS
Sample: IA1633STD-.5 S/N:731.6 Points Across peak:19



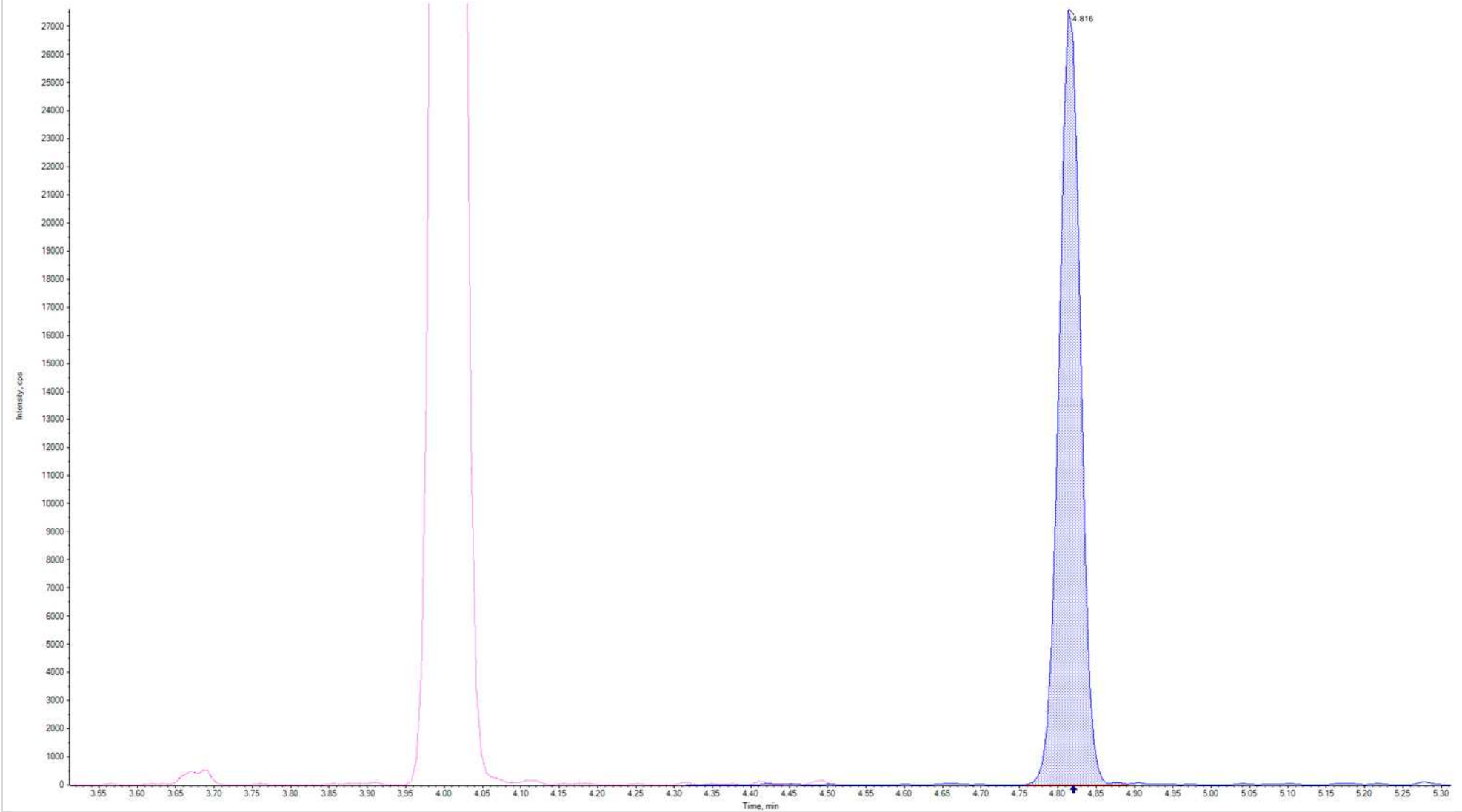
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS_2
Sample: IA1633STD-.5 S/N:204.6 Points Across peak:24



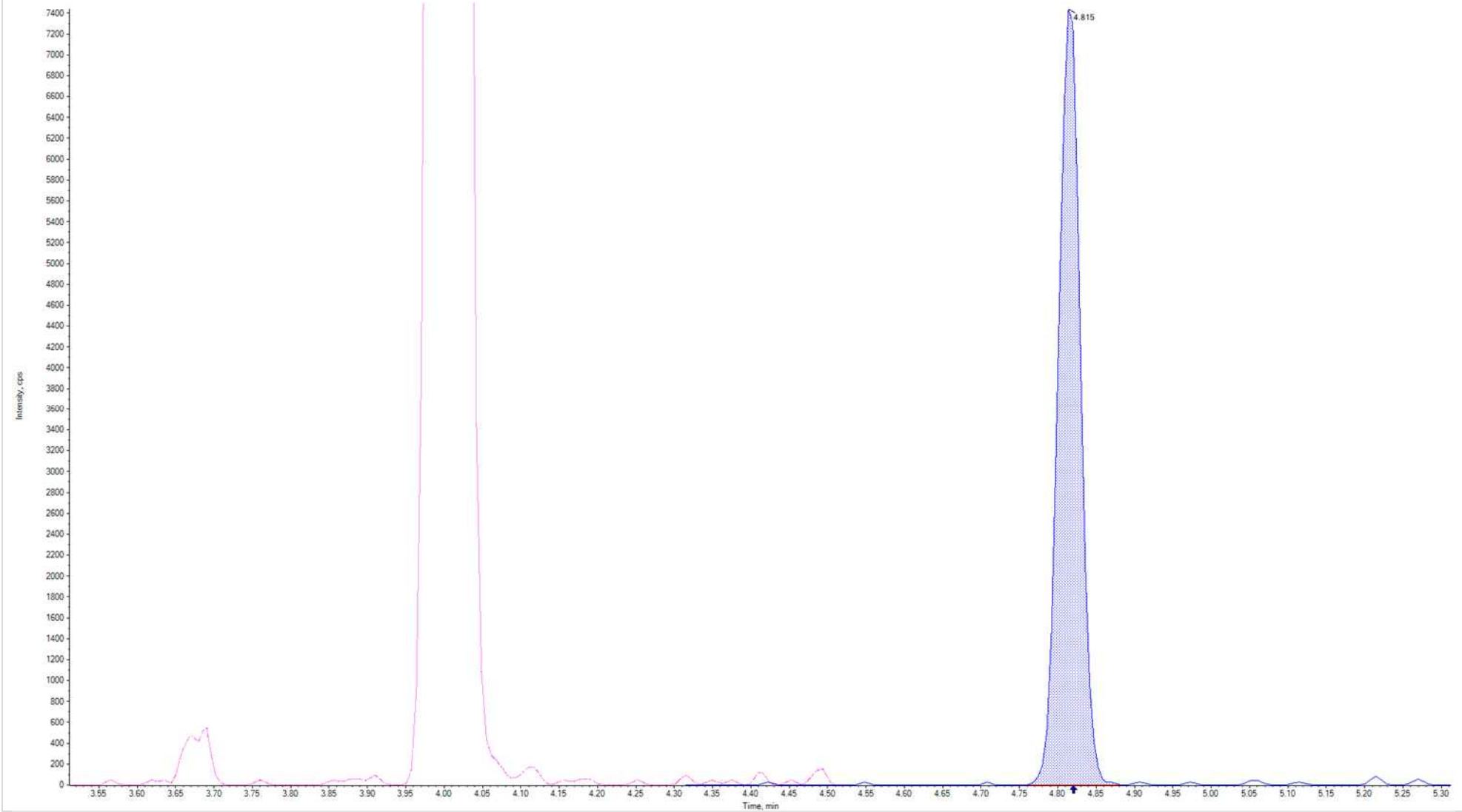
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
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PFDS
Sample: IA1633STD-.5 S/N:969.0 Points Across peak:27



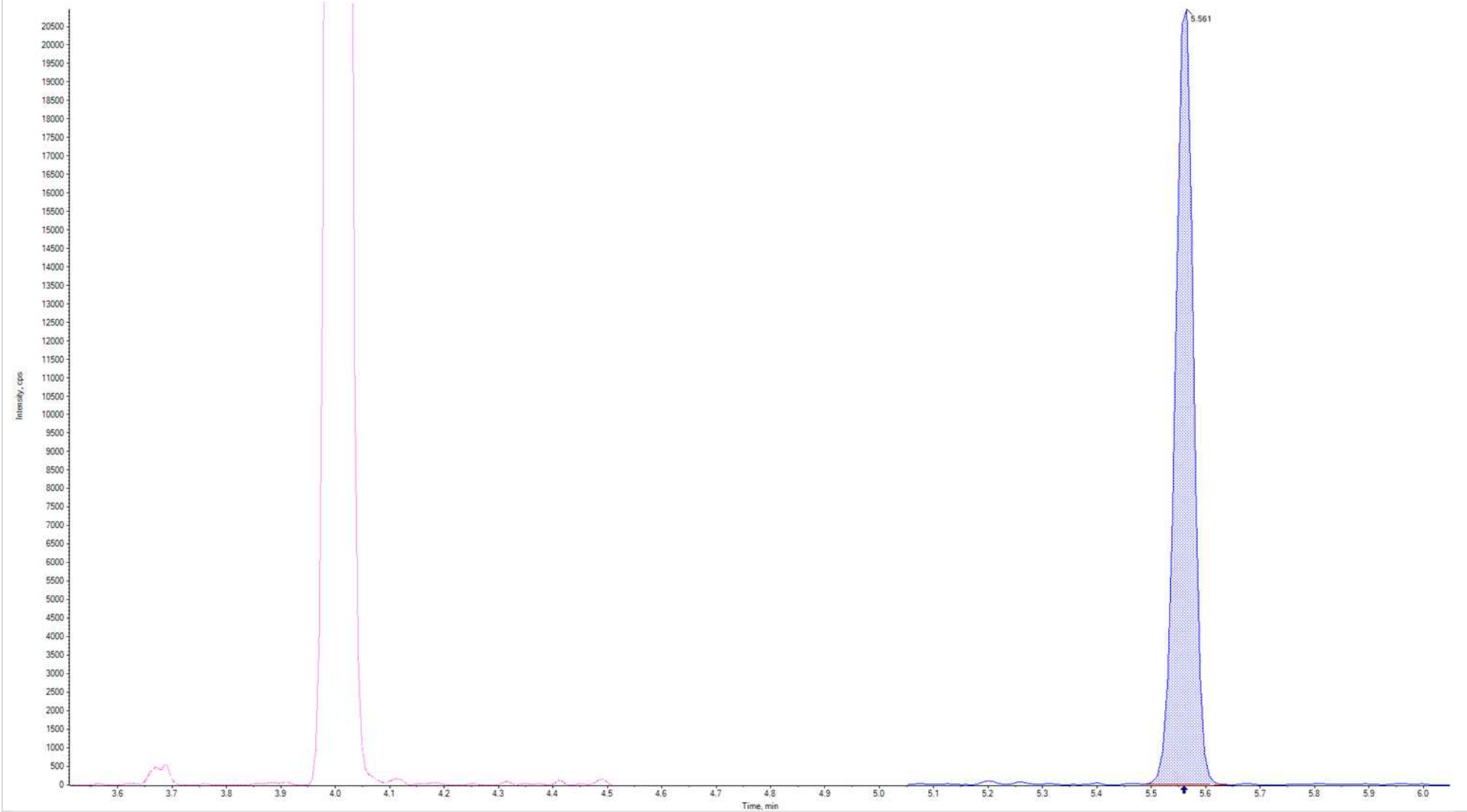
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDS_2
Sample: IA1633STD-.5 S/N:261.0 Points Across peak:26



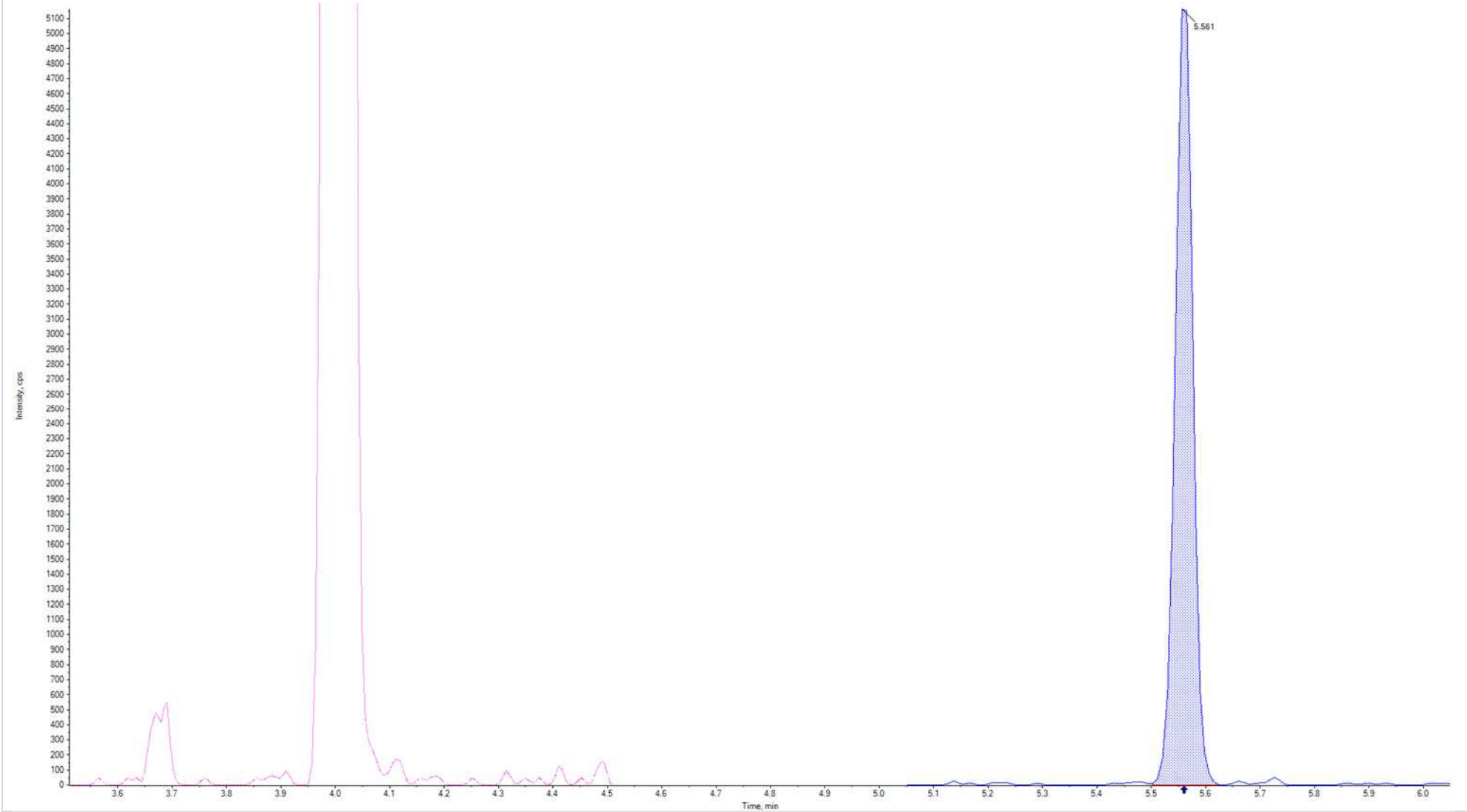
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFDoS
Sample: IA1633STD-.5 S/N:1628.4 Points Across peak:20



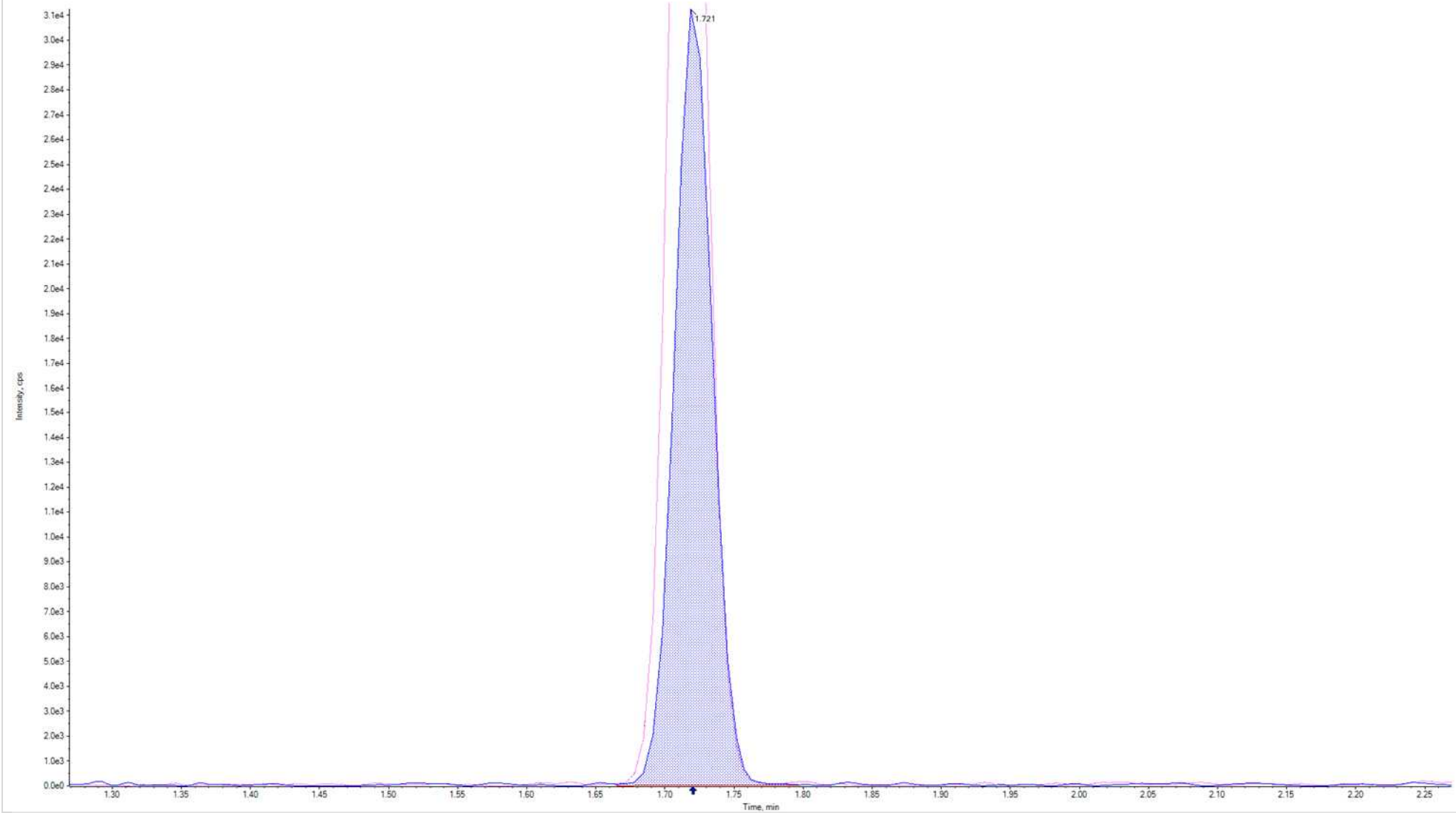
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDoS_2
Sample: IA1633STD-.5 S/N:401.2 Points Across peak:16



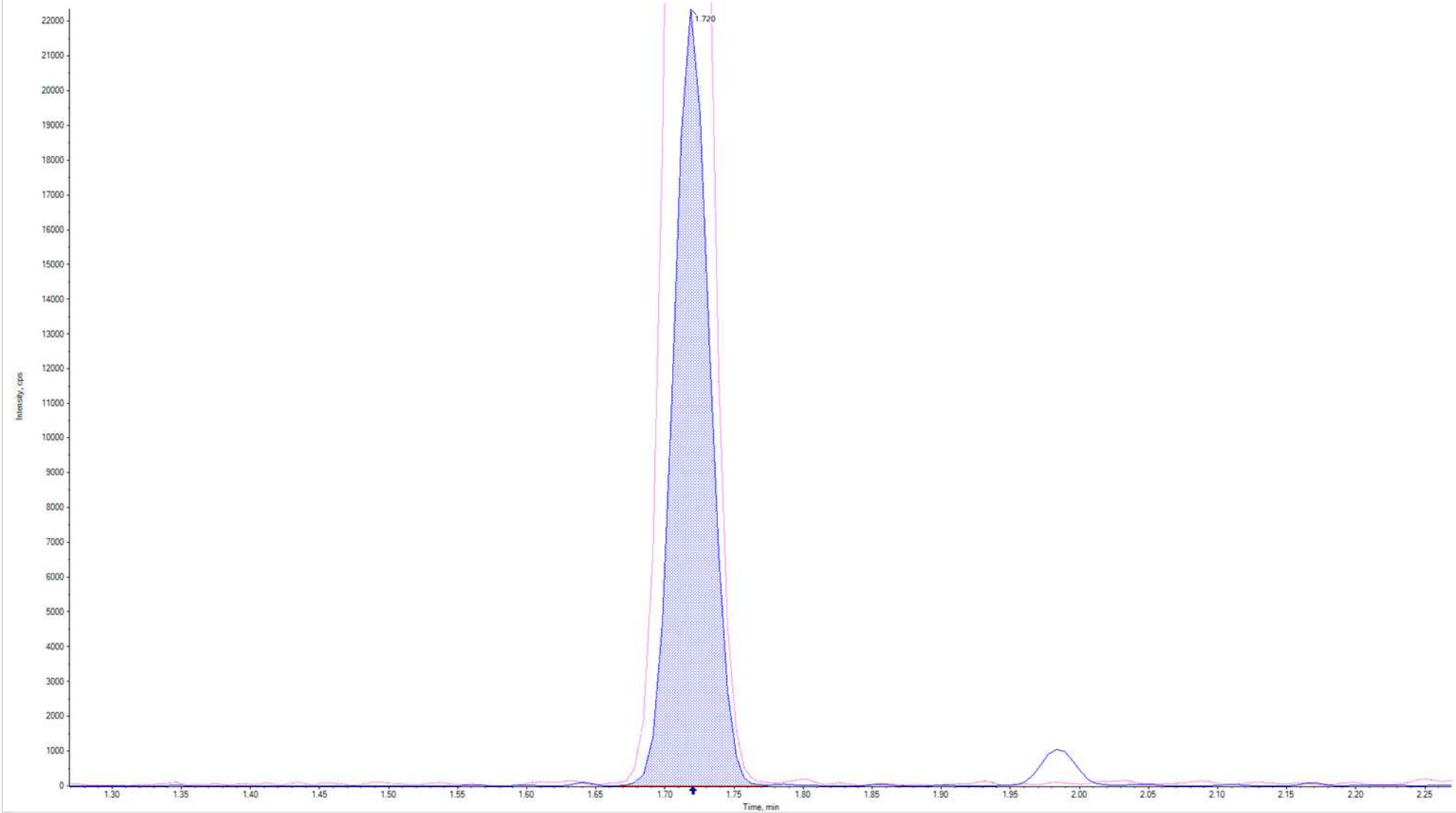
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

4:2FTS
Sample: IA1633STD-.5 S/N:1174.1 Points Across peak:22



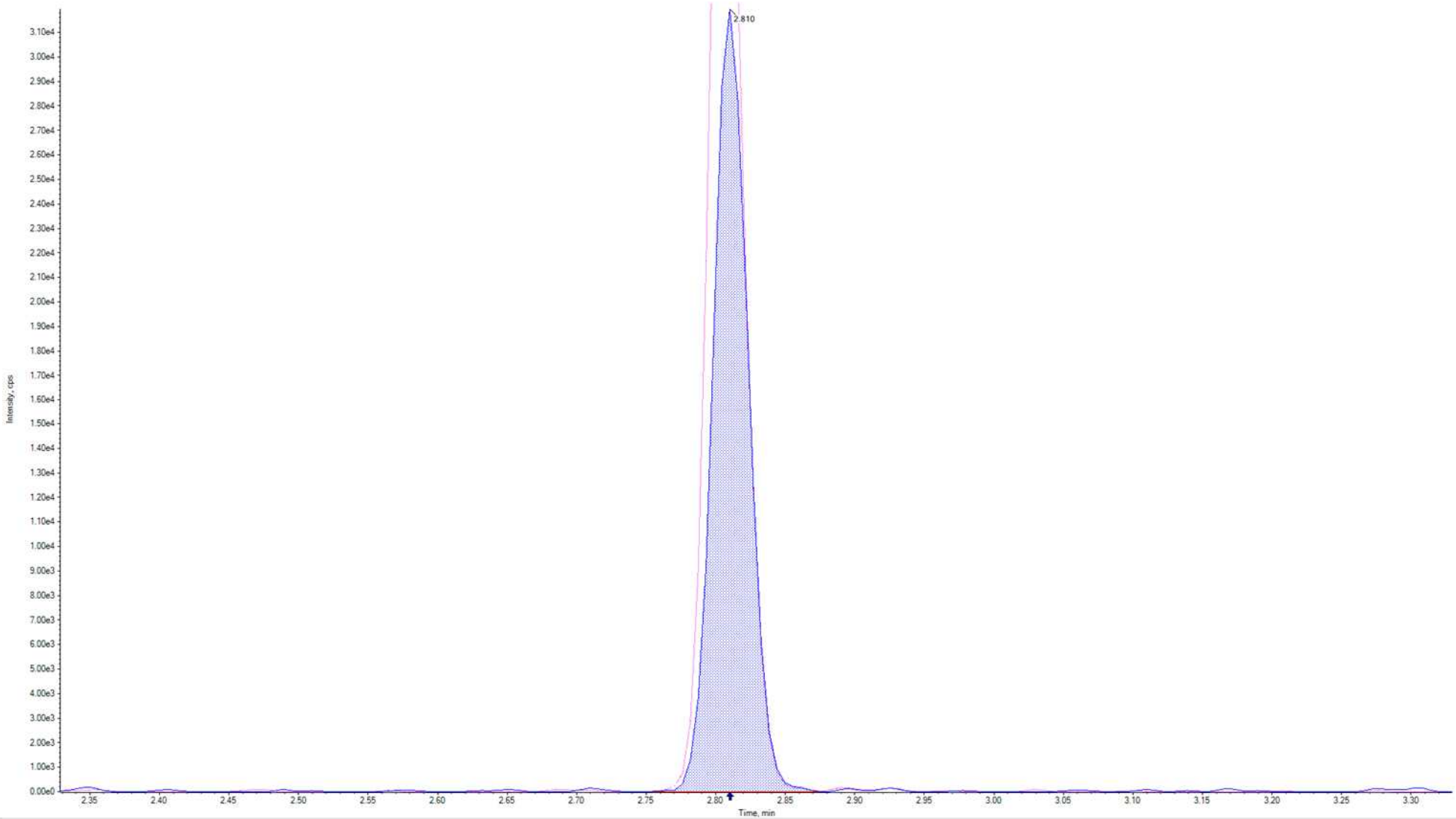
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

4:2FTS_2
Sample: IA1633STD-.5 S/N:840.1 Points Across peak:19



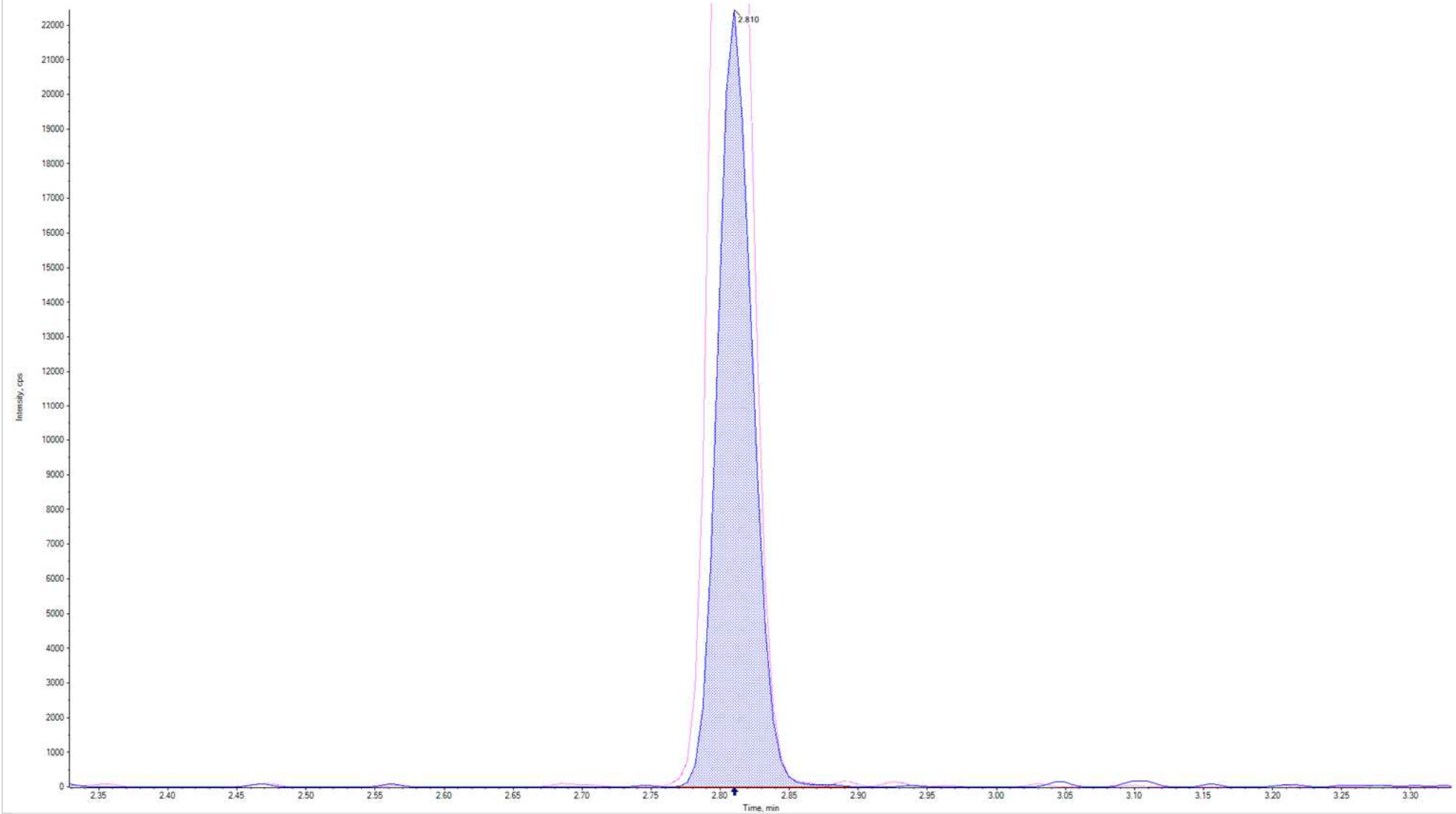
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

6:2FTS
Sample: IA1633STD-.5 S/N:640.6 Points Across peak:24



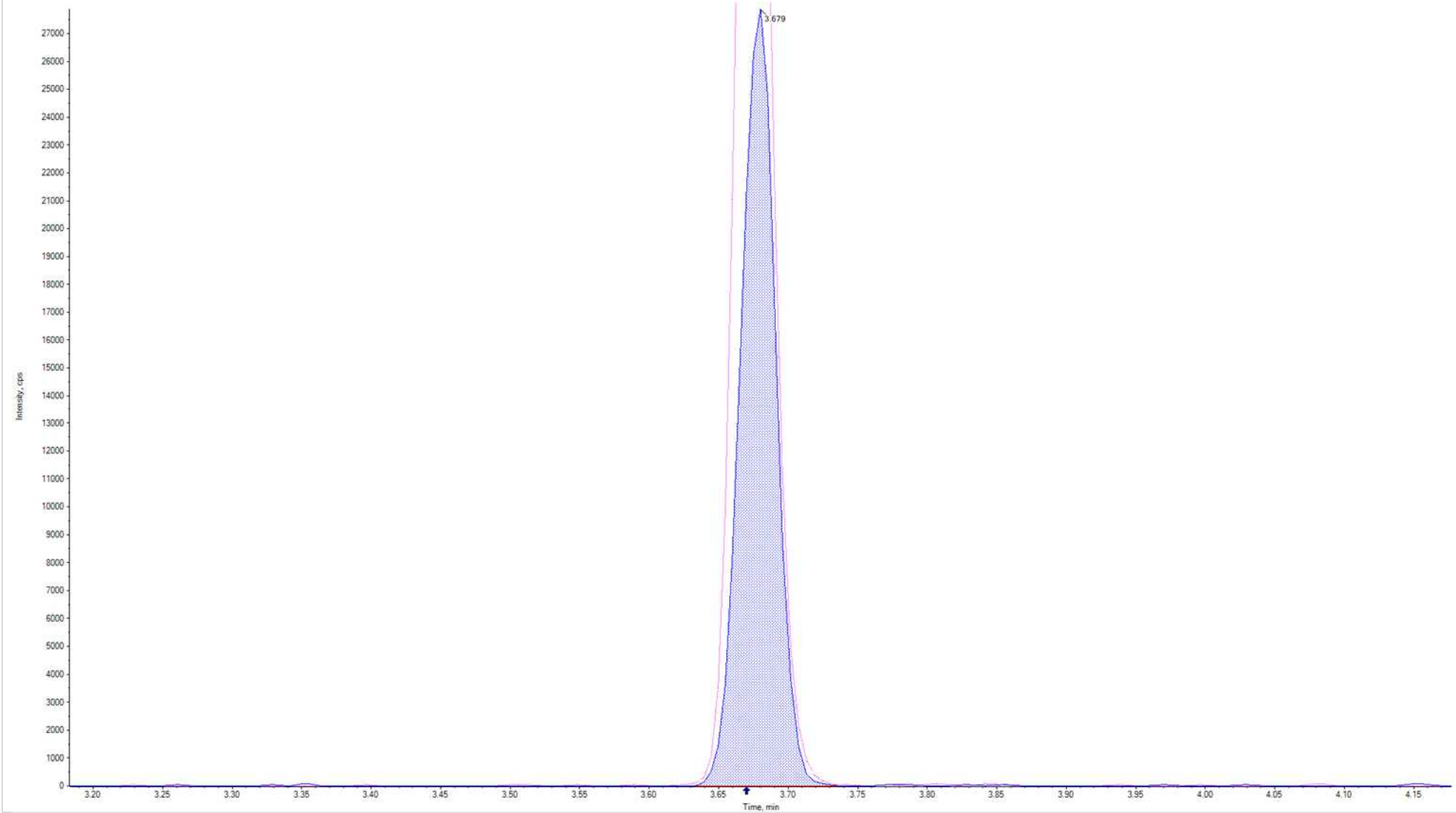
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

6:2FTS_2
Sample: IA1633STD-.5 S/N:450.1 Points Across peak:27



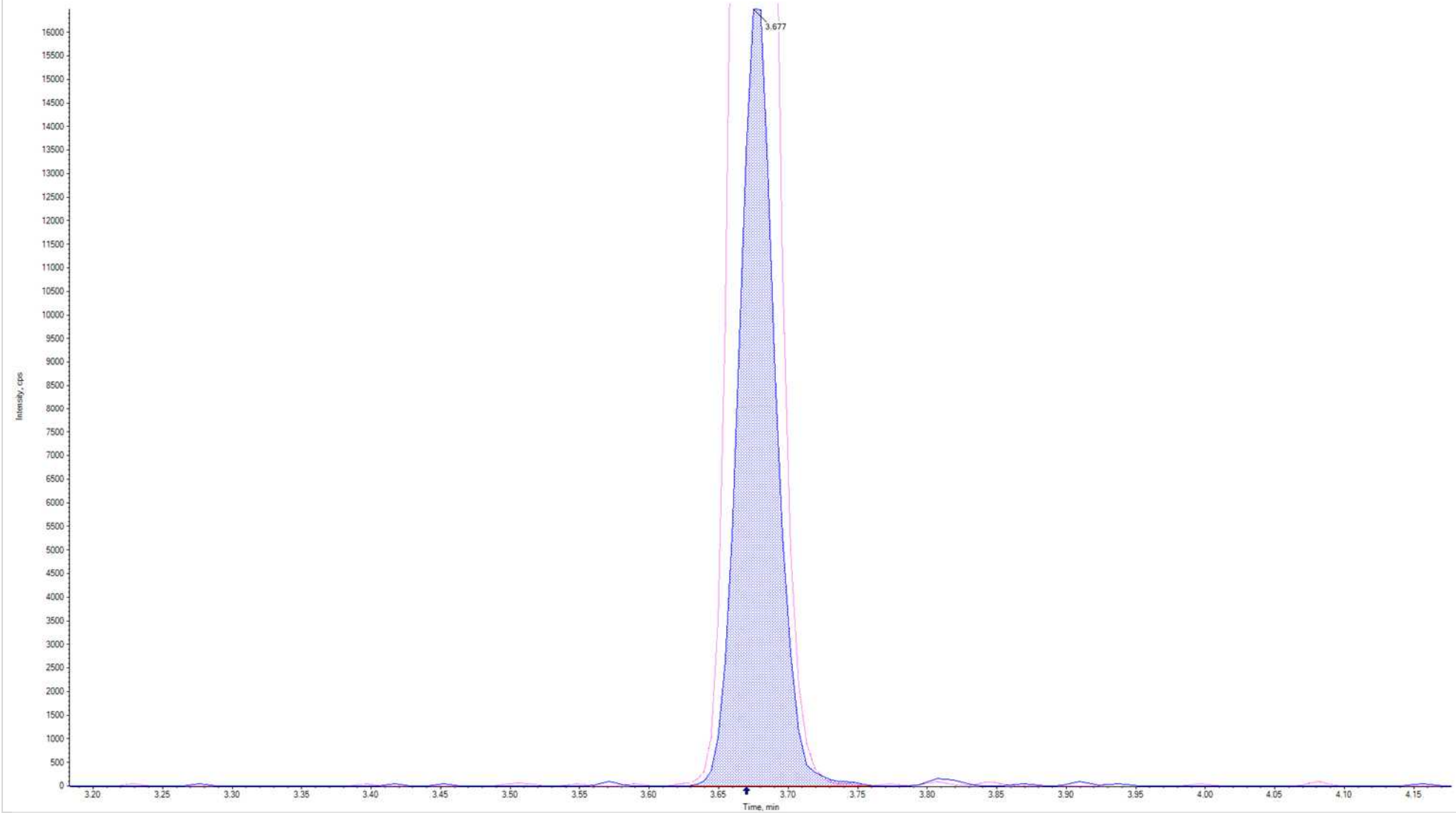
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

8:2FTS
Sample: IA1633STD-.5 S/N:559.0 Points Across peak:28



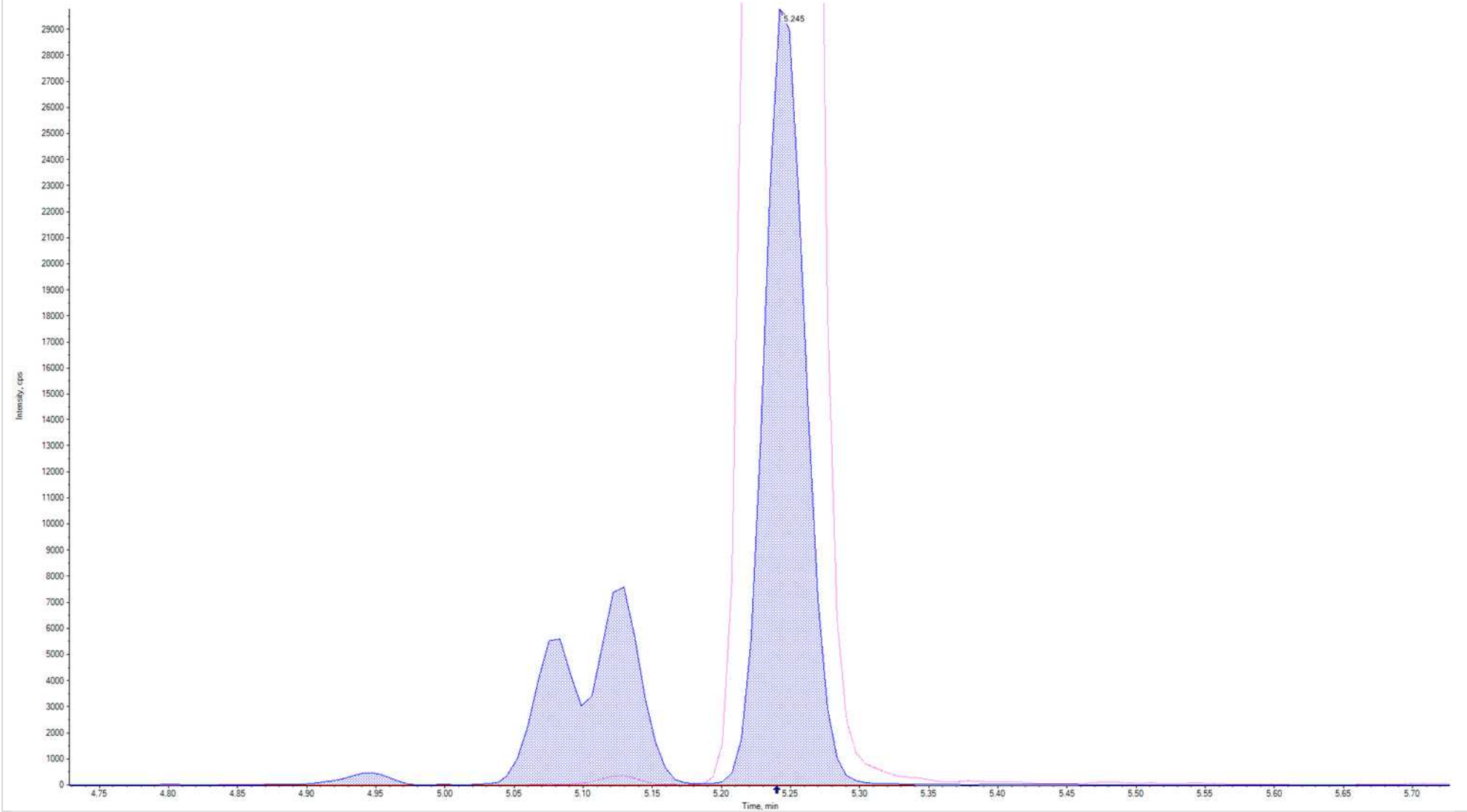
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

8:2FTS_2
Sample: IA1633STD-.5 S/N:330.7 Points Across peak:30



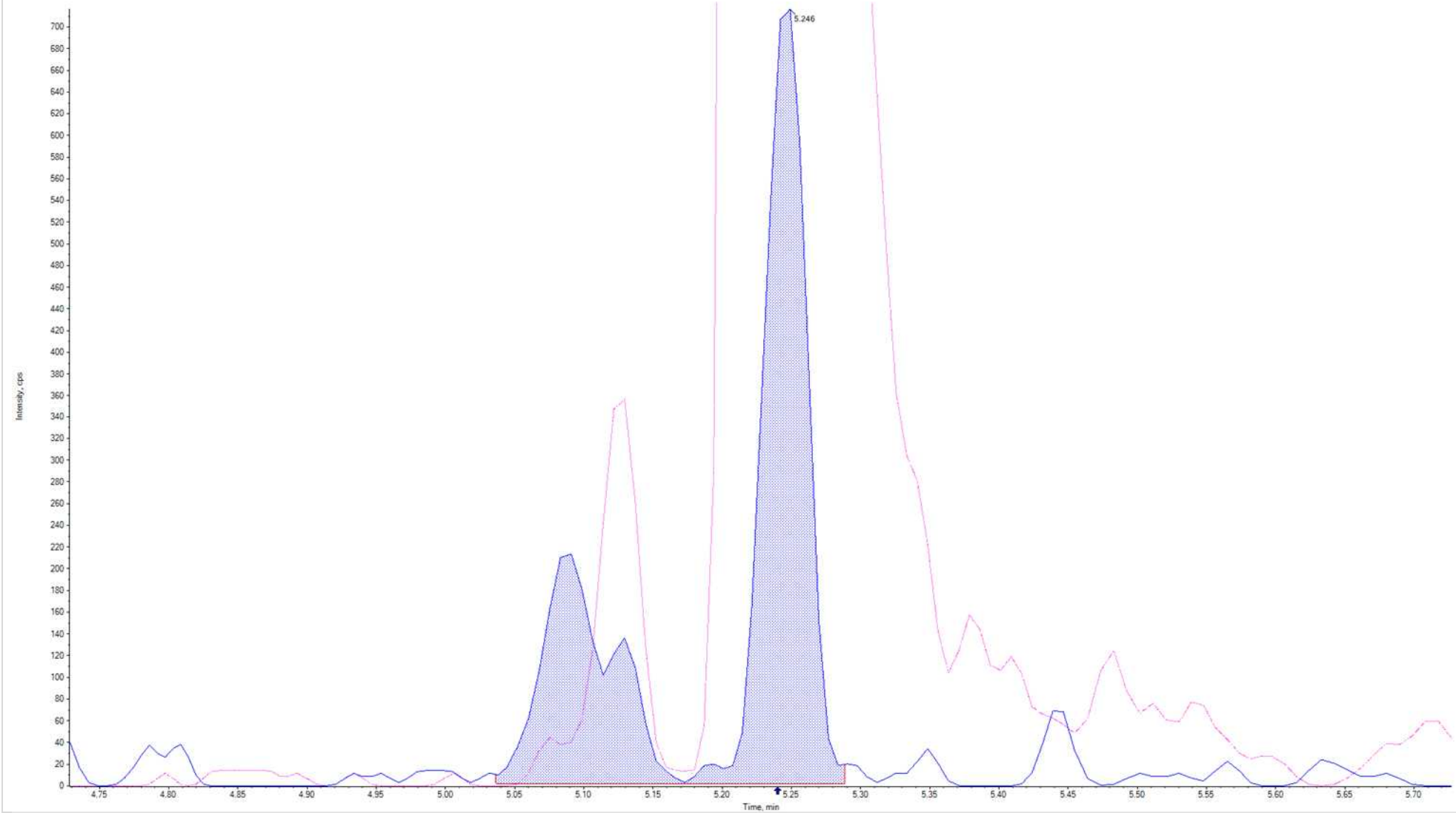
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOSA
Sample: IA1633STD-.5 S/N:380.8 Points Across peak:72



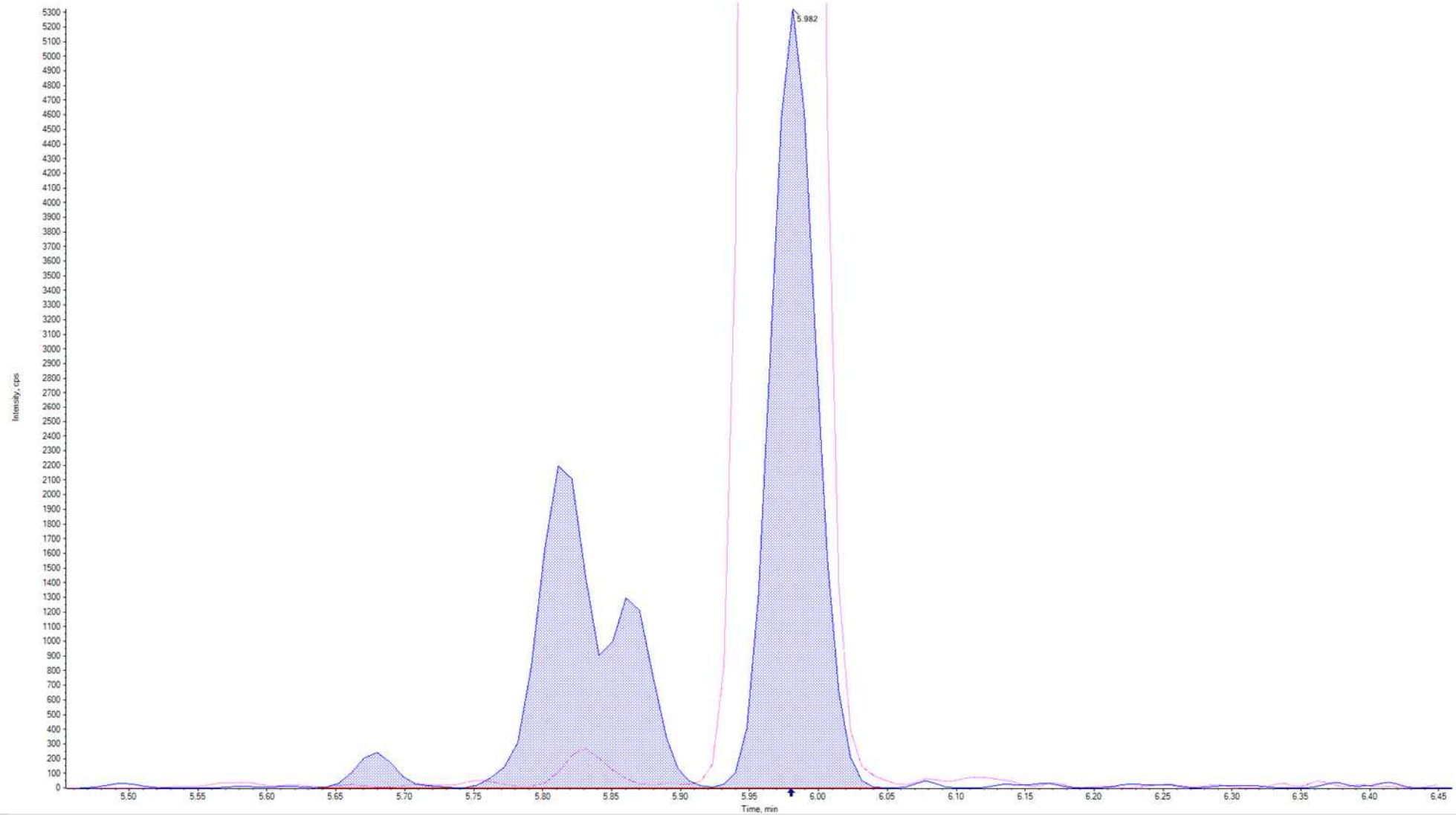
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFOSA_2
Sample: IA1633STD-.5 S/N:62.7 Points Across peak:37



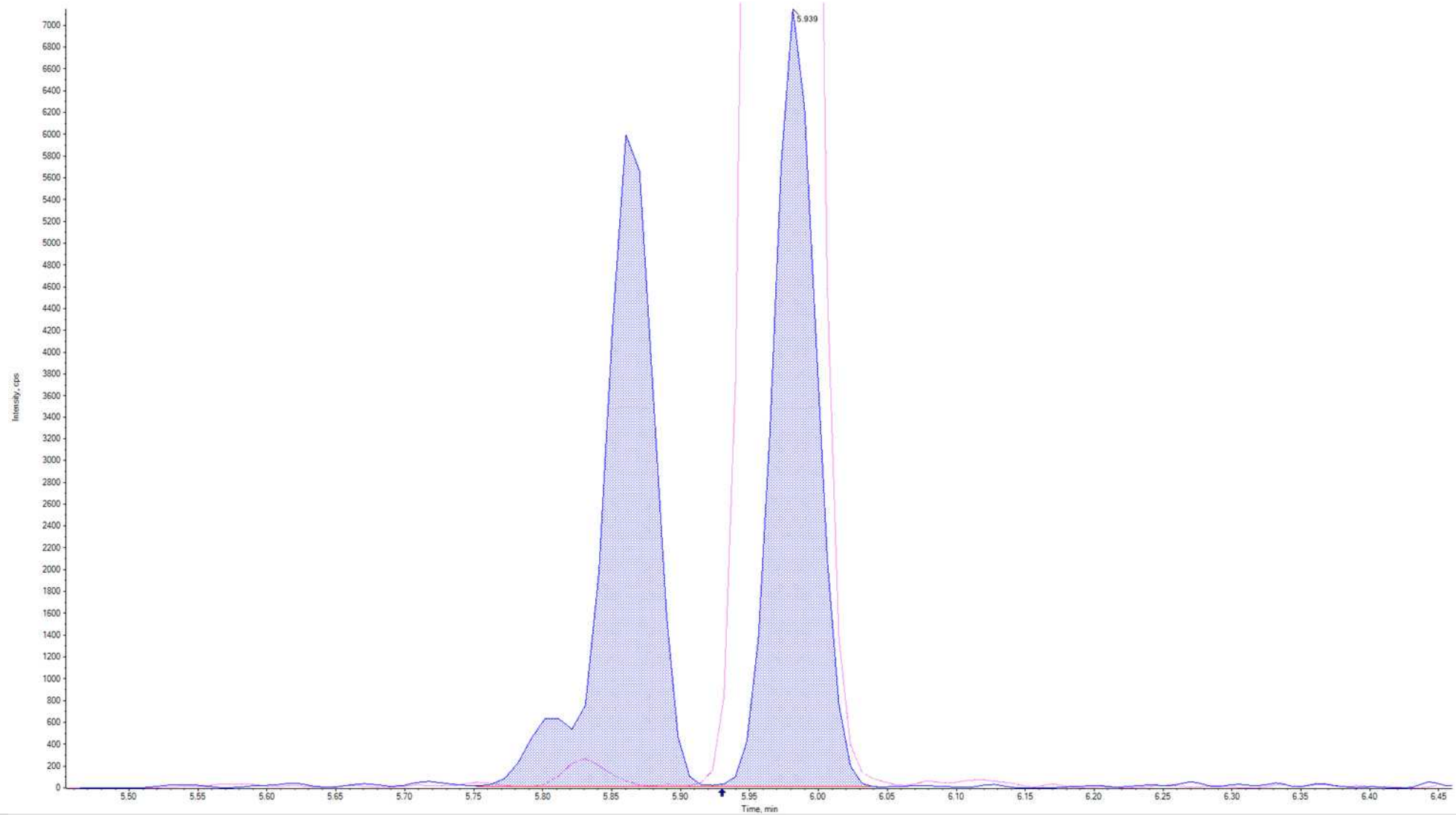
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NMeFOSA
Sample: IA1633STD-.5 S/N:209.7 Points Across peak:47



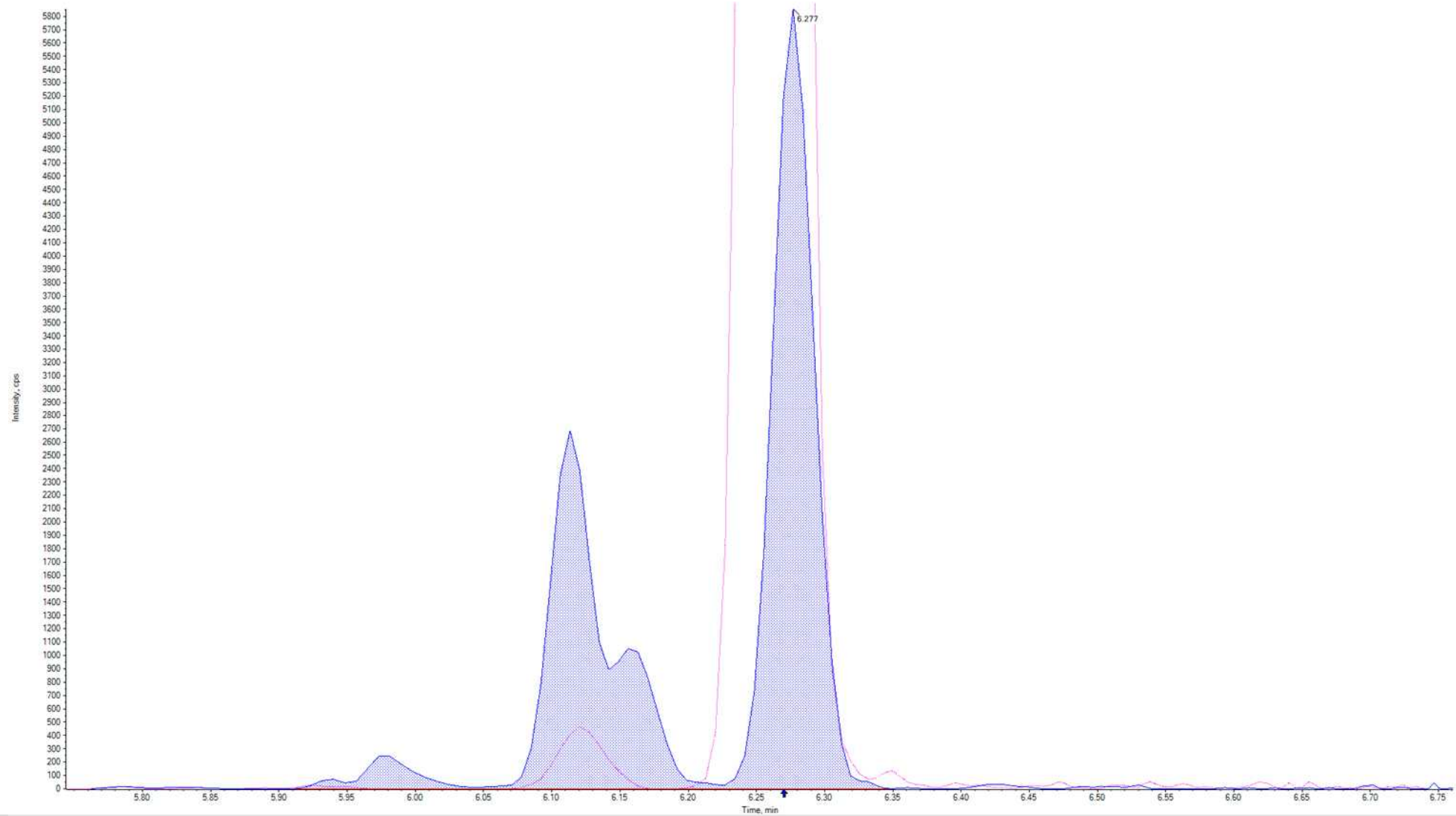
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSA_2
Sample: IA1633STD-.5 S/N:213.2 Points Across peak:35



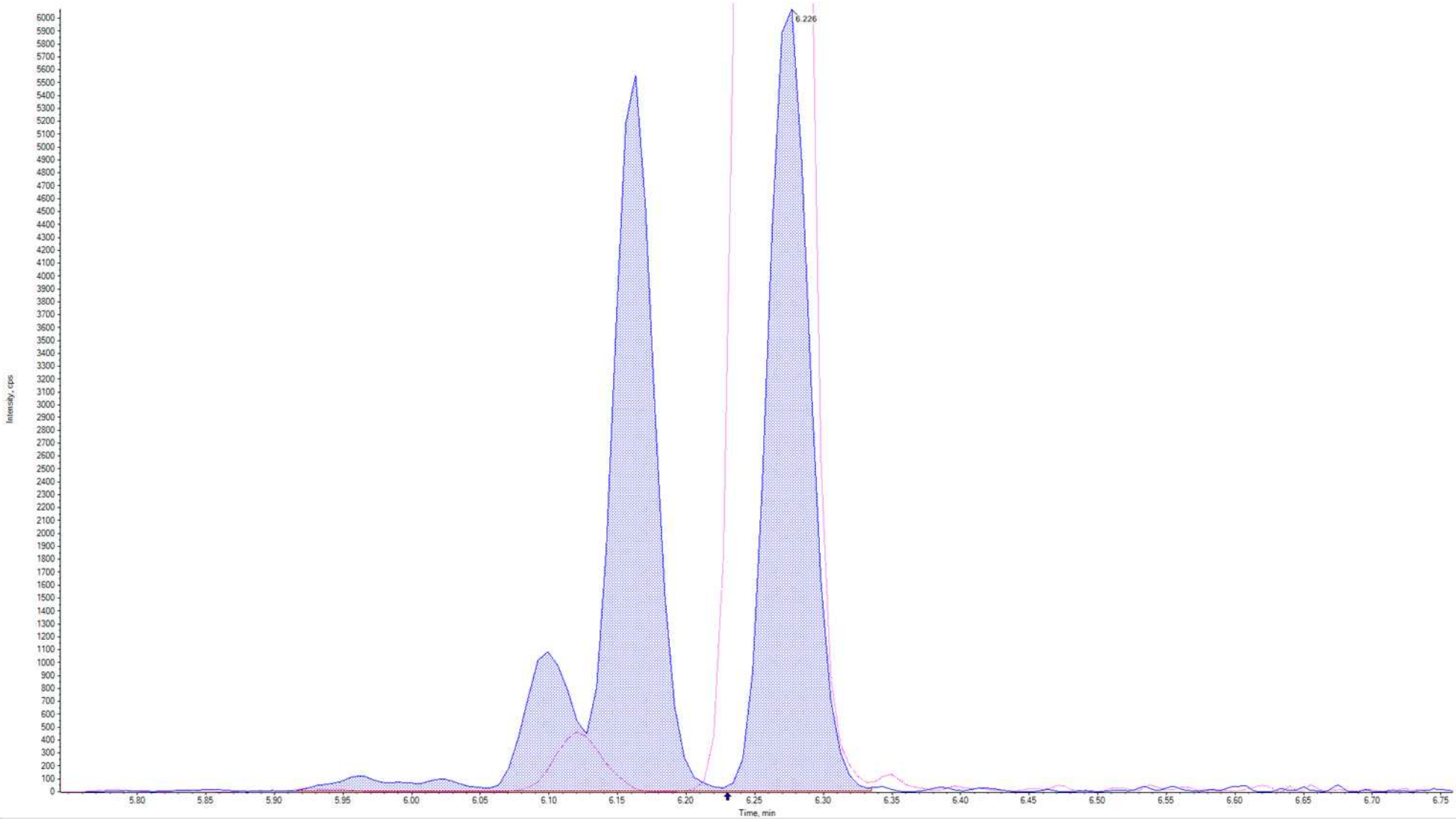
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSA
Sample: IA1633STD-.5 S/N:402.6 Points Across peak:61



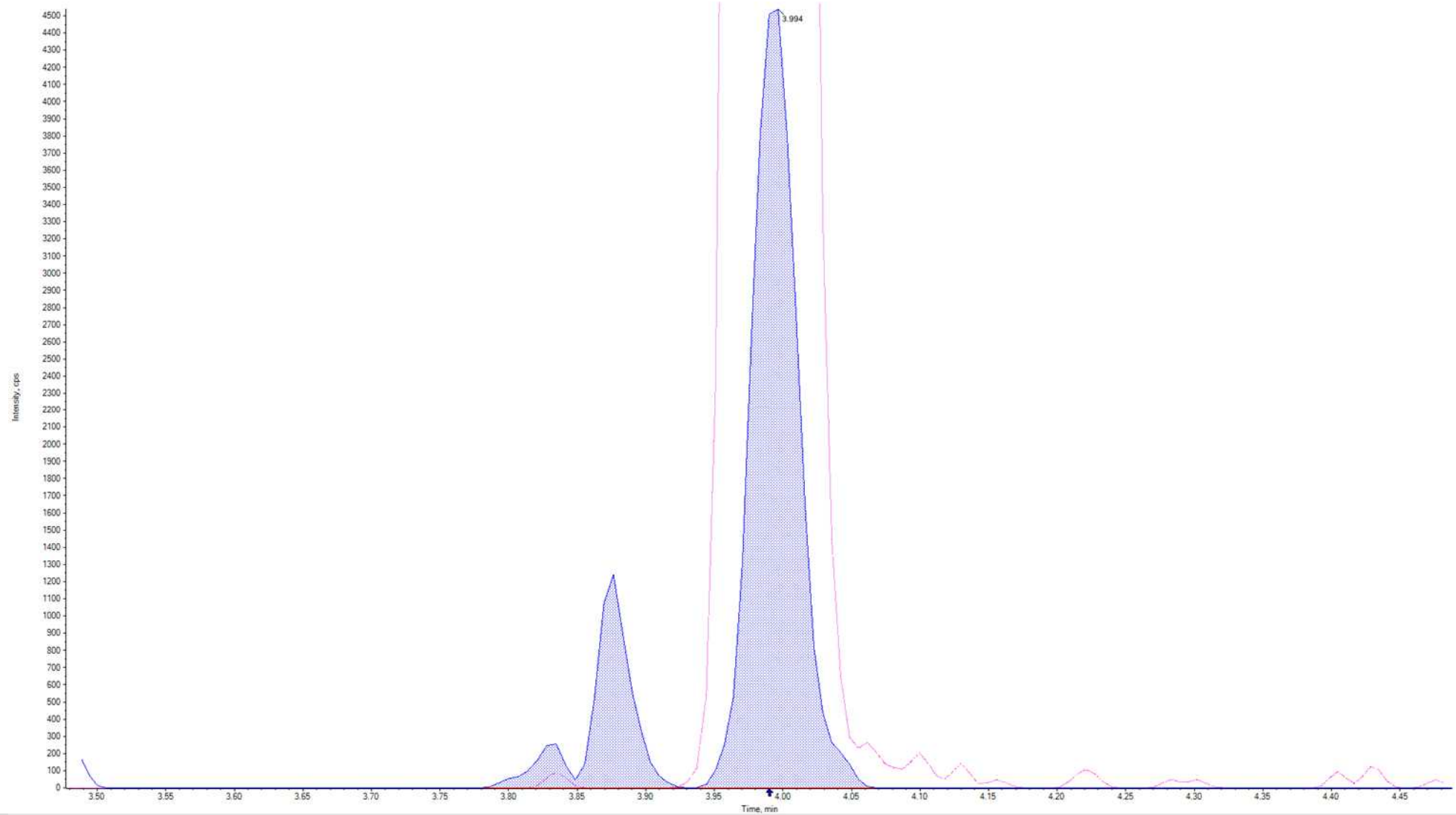
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NEtFOSA_2
Sample: IA1633STD-.5 S/N:253.4 Points Across peak:59



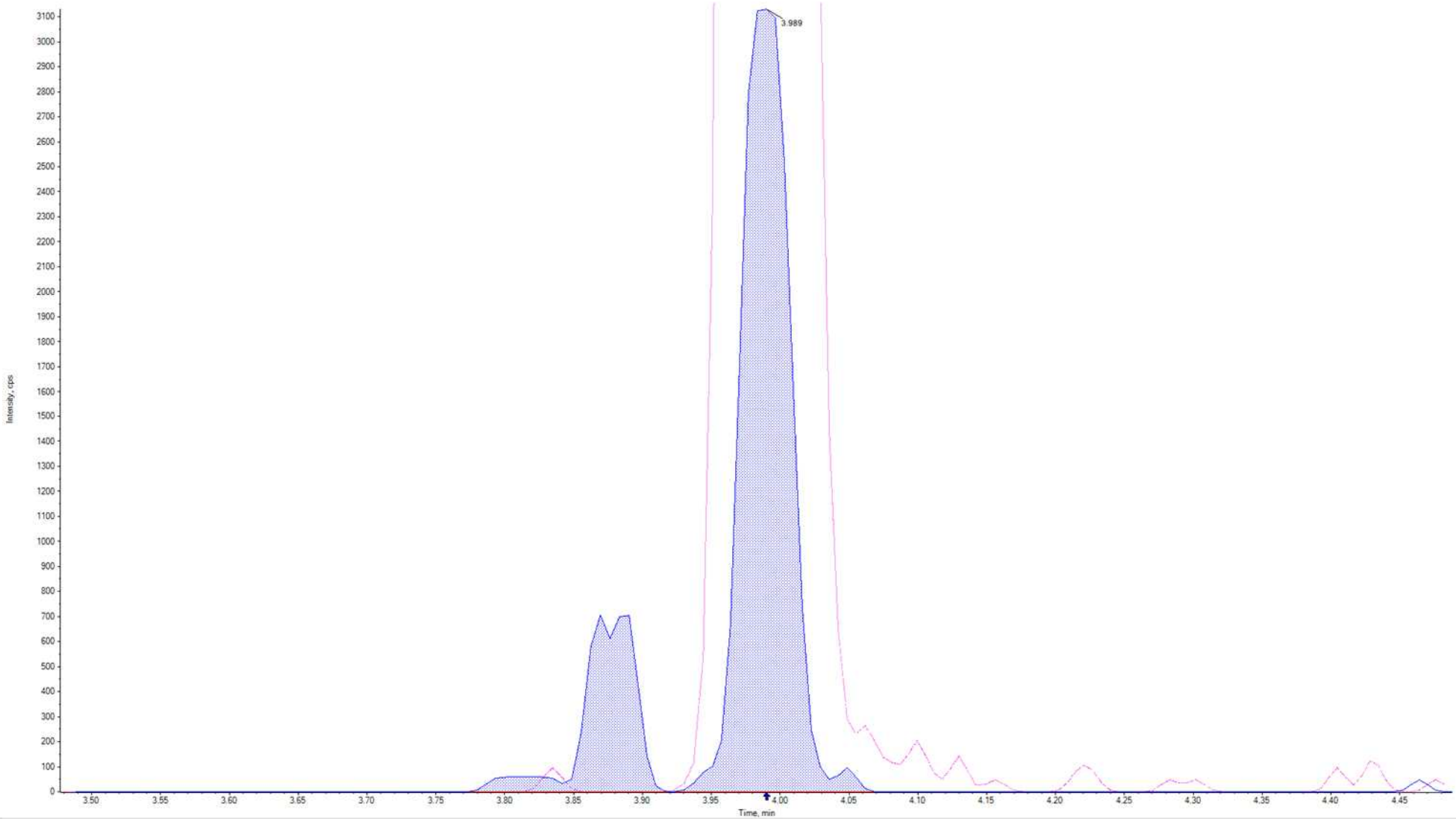
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSAA
Sample: IA1633STD-.5 S/N:91.0 Points Across peak:54



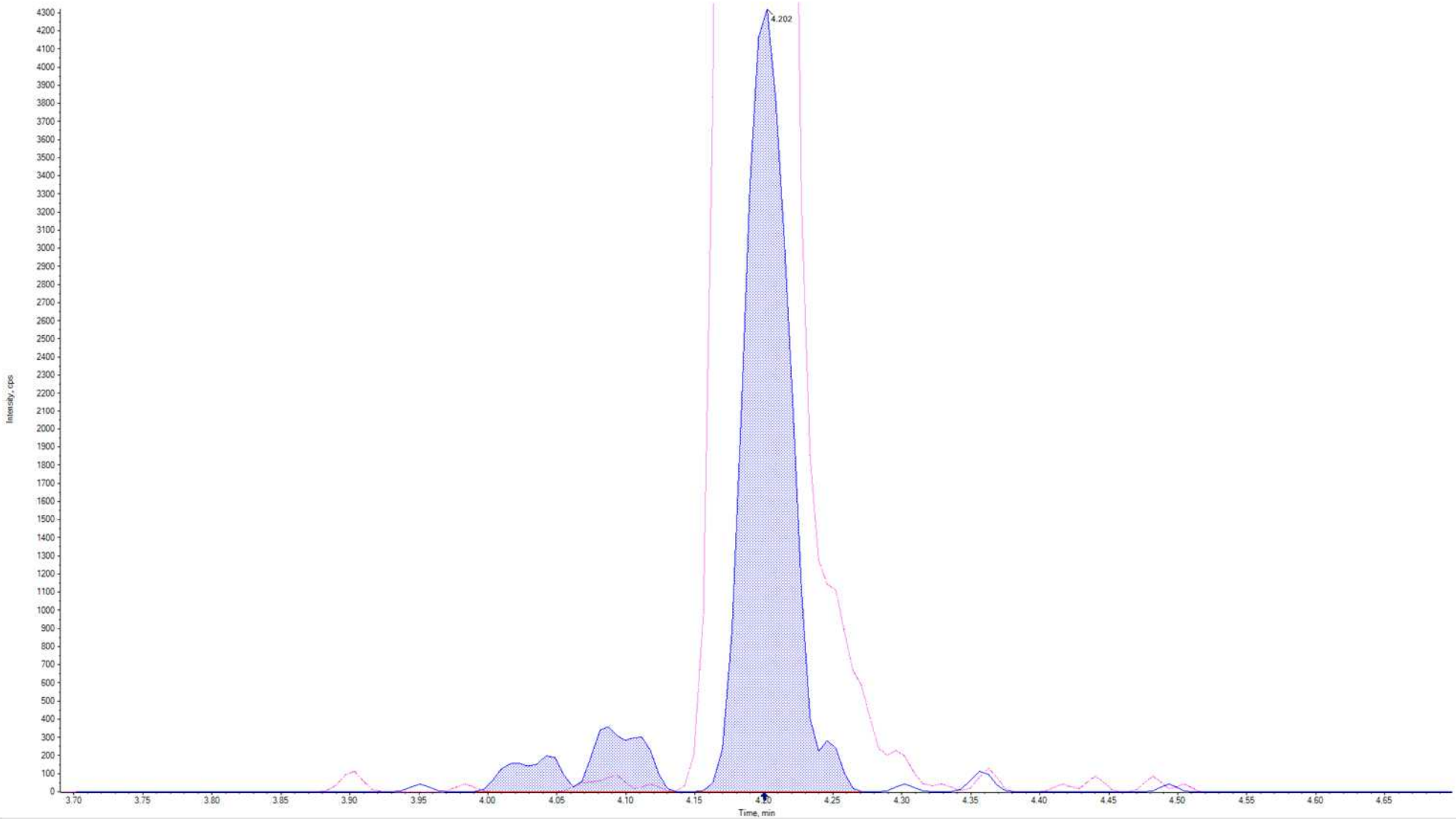
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NMeFOSAA_2
Sample: IA1633STD-.5 S/N:62.8 Points Across peak:55



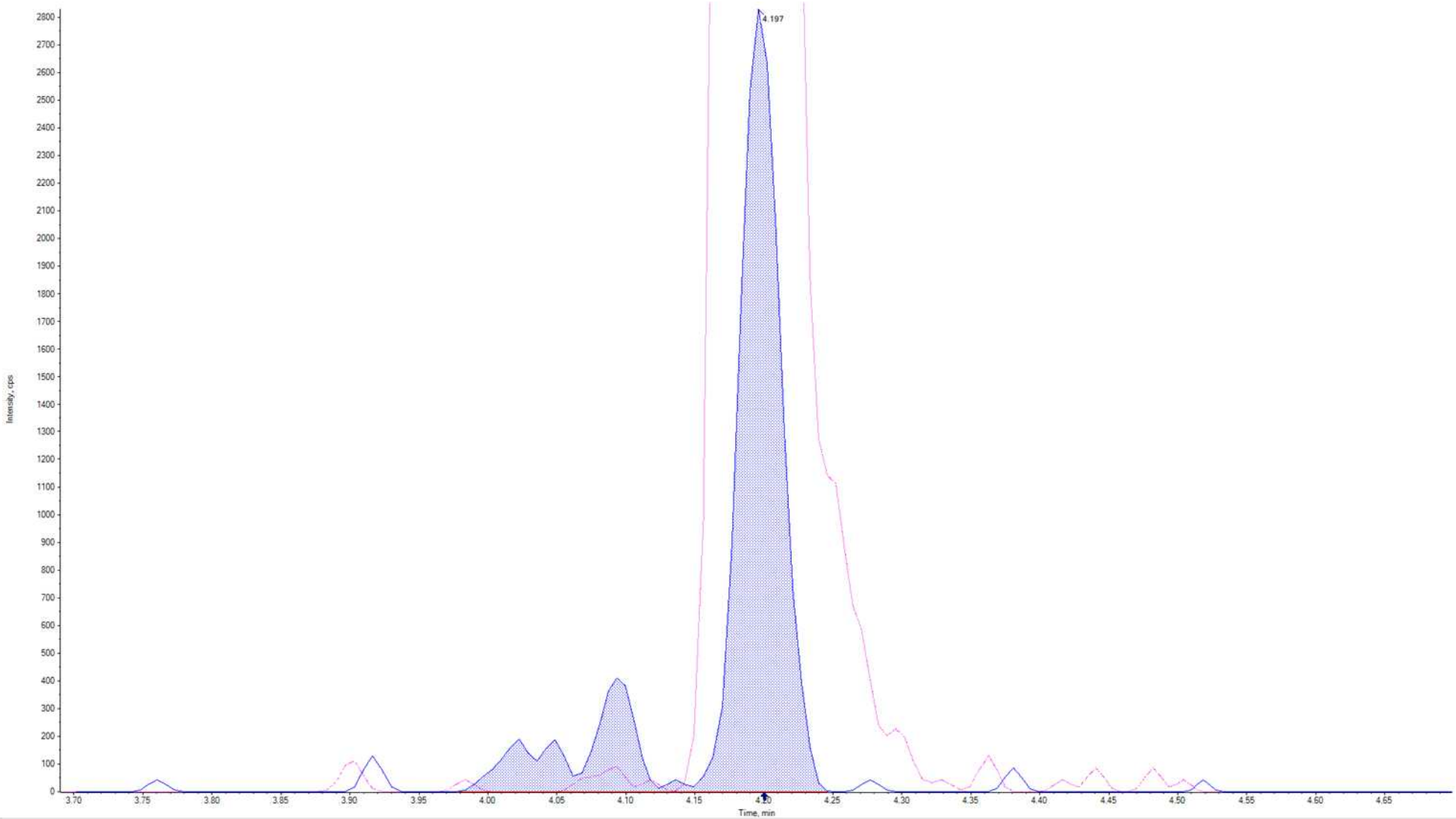
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
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NEtFOSAA
Sample: IA1633STD-.5 S/N:97.5 Points Across peak:49



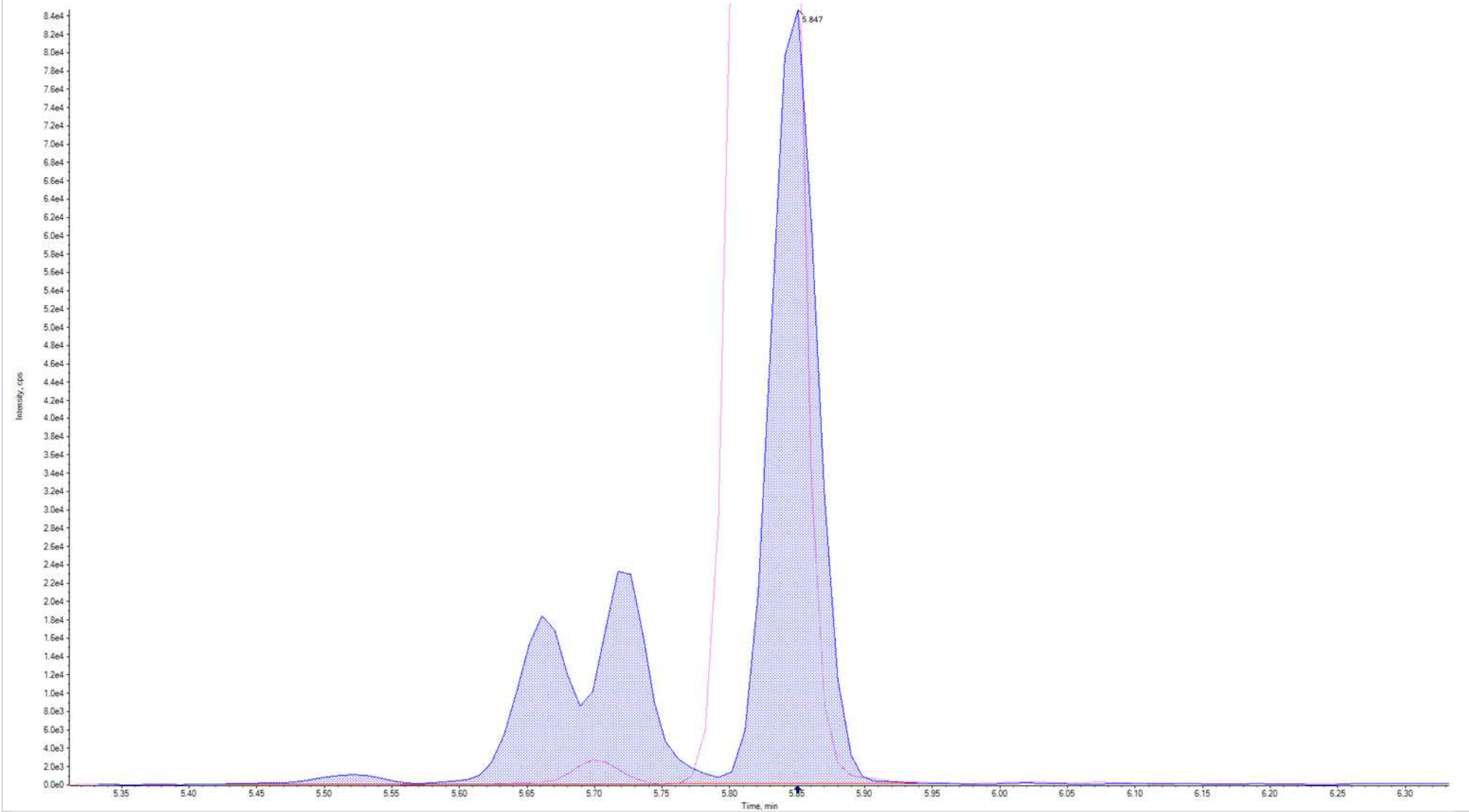
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSAA_2
Sample: IA1633STD-.5 S/N:63.8 Points Across peak:44



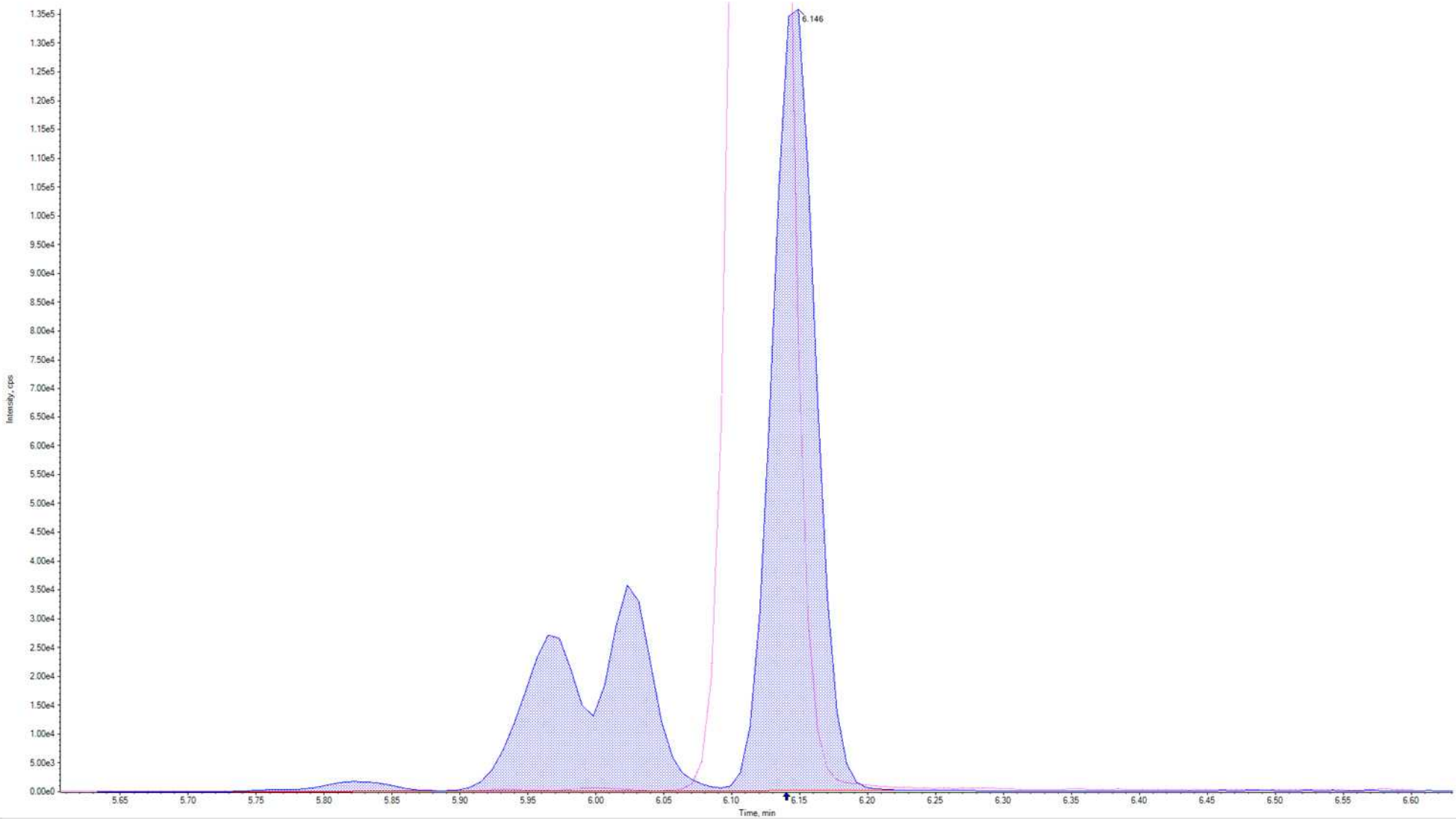
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSE
Sample: IA1633STD-.5 S/N:207.5 Points Across peak:62



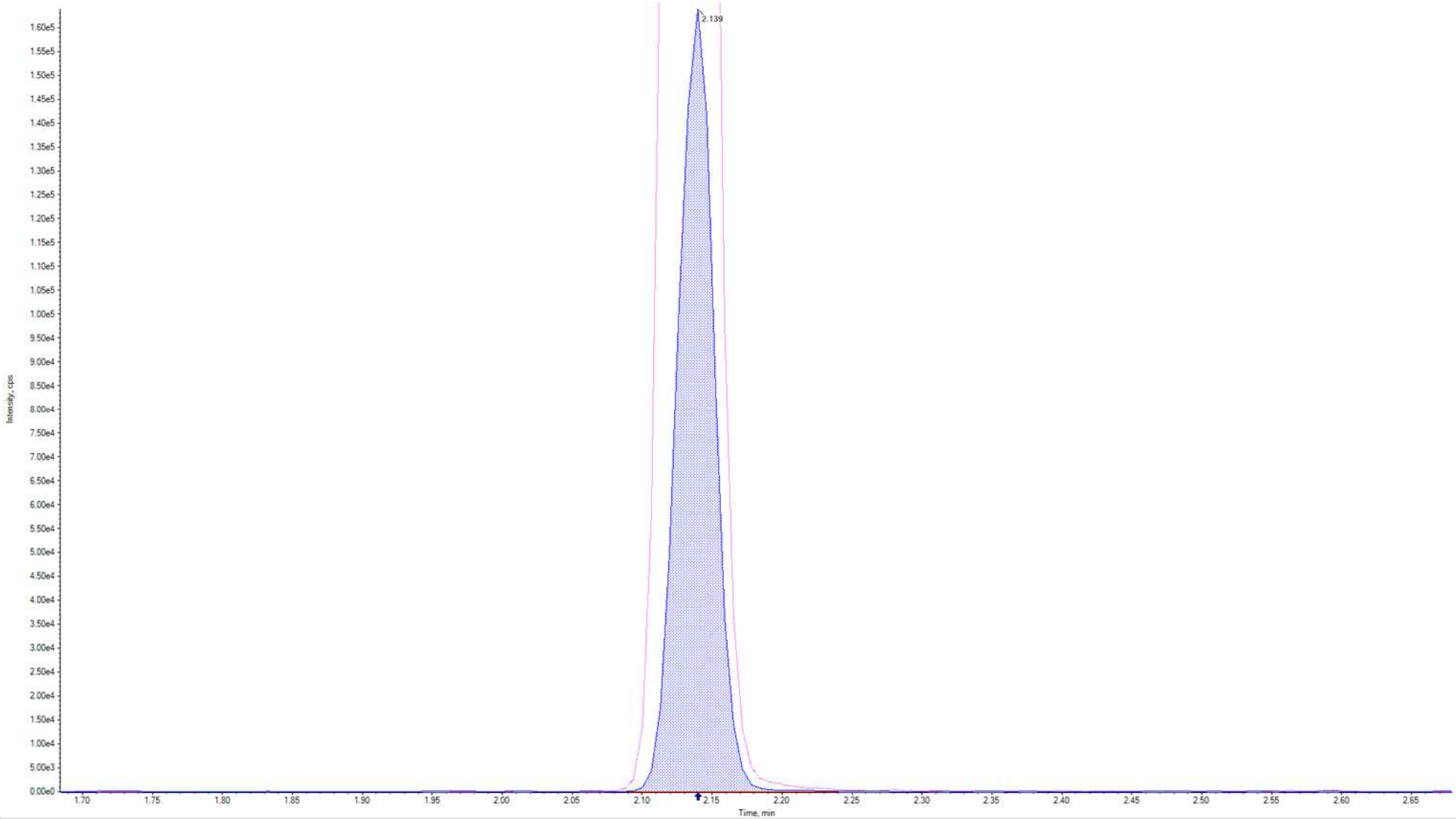
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSE
Sample: IA1633STD-.5 S/N:430.3 Points Across peak:63



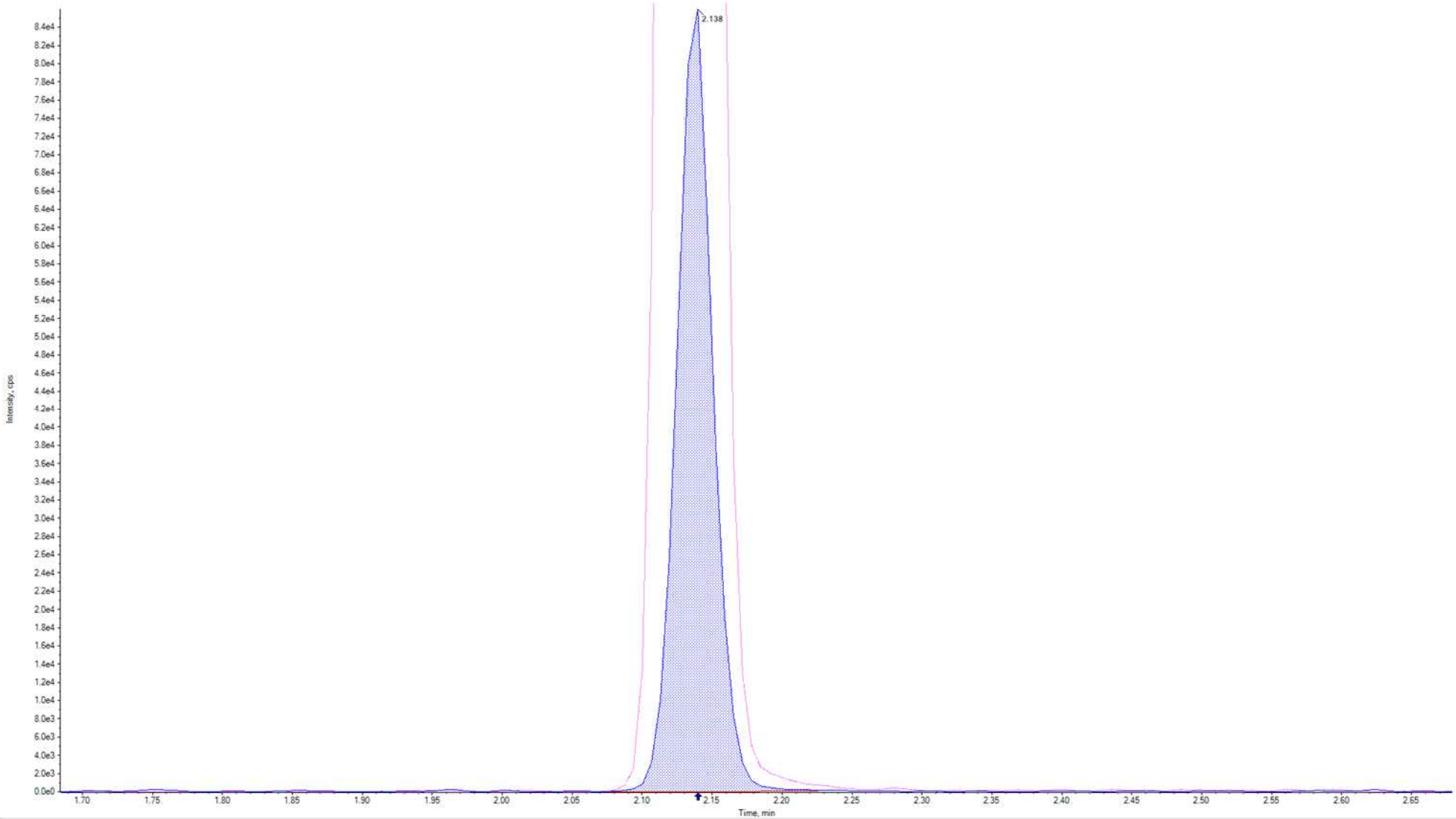
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

HFPO-DA
Sample: IA1633STD-.5 S/N:3695.6 Points Across peak:26



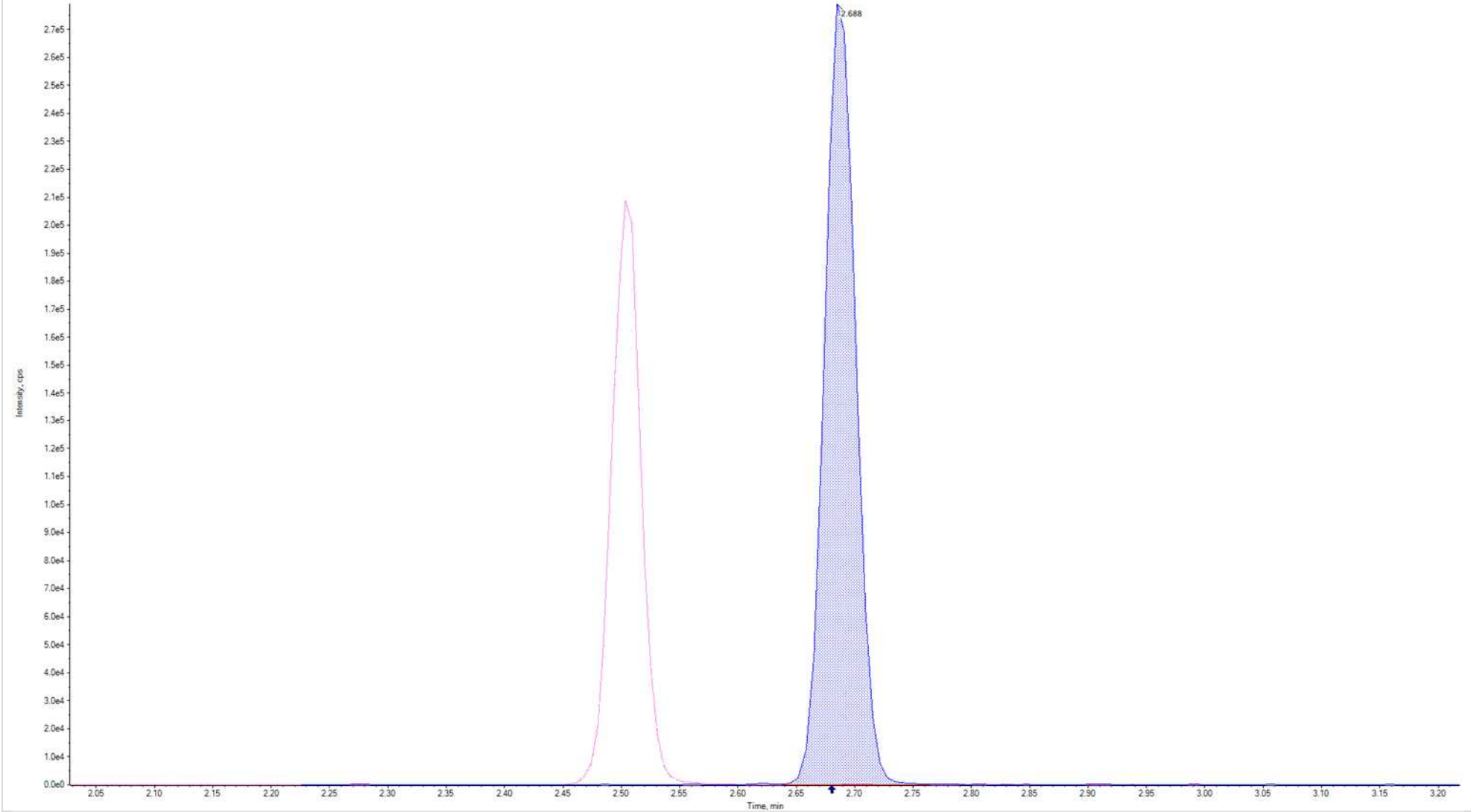
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

HFPO-DA_2
Sample: IA1633STD-.5 S/N:1939.1 Points Across peak:25



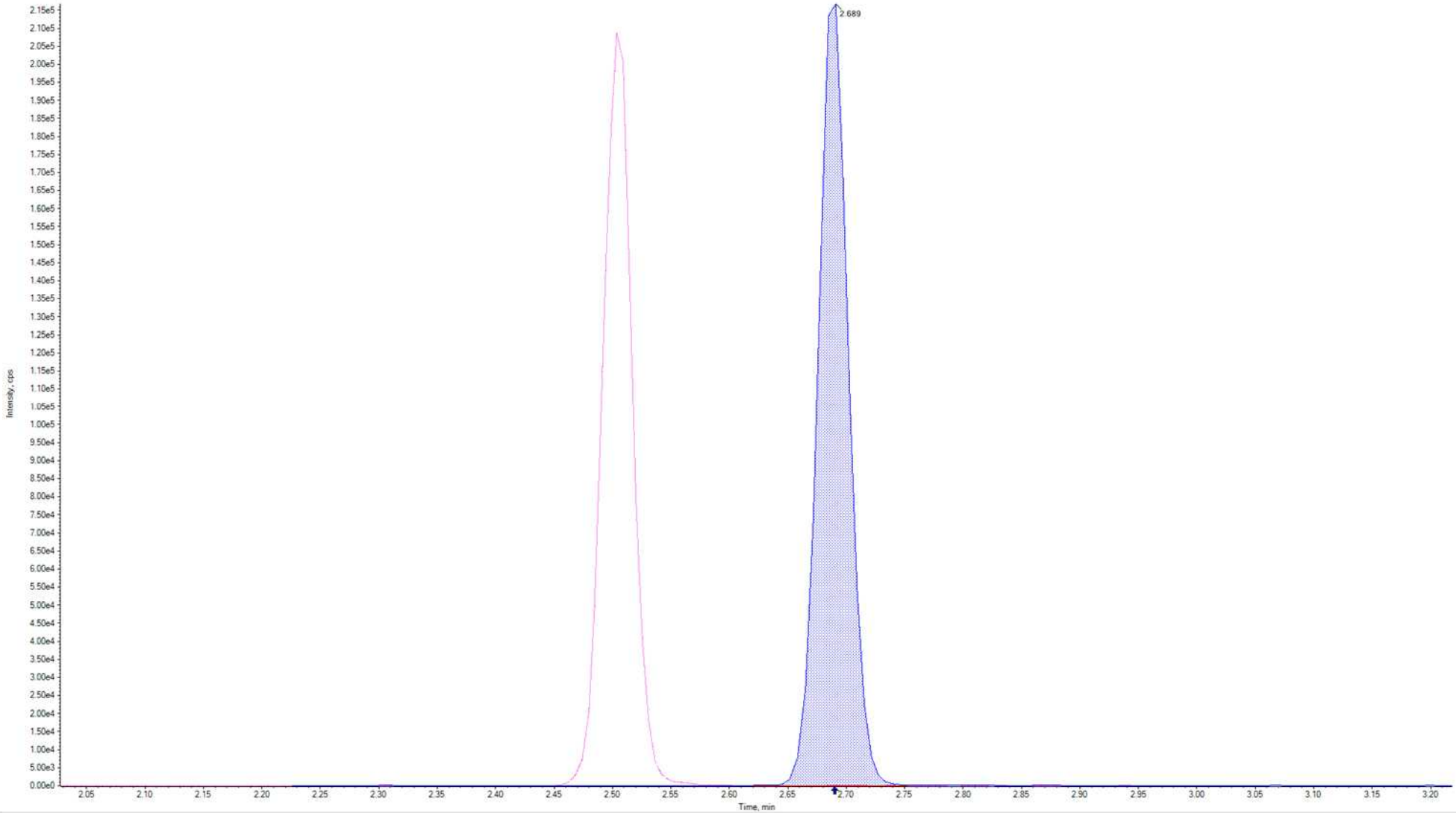
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

ADONA
Sample: IA1633STD-.5 S/N:5596.8 Points Across peak:21



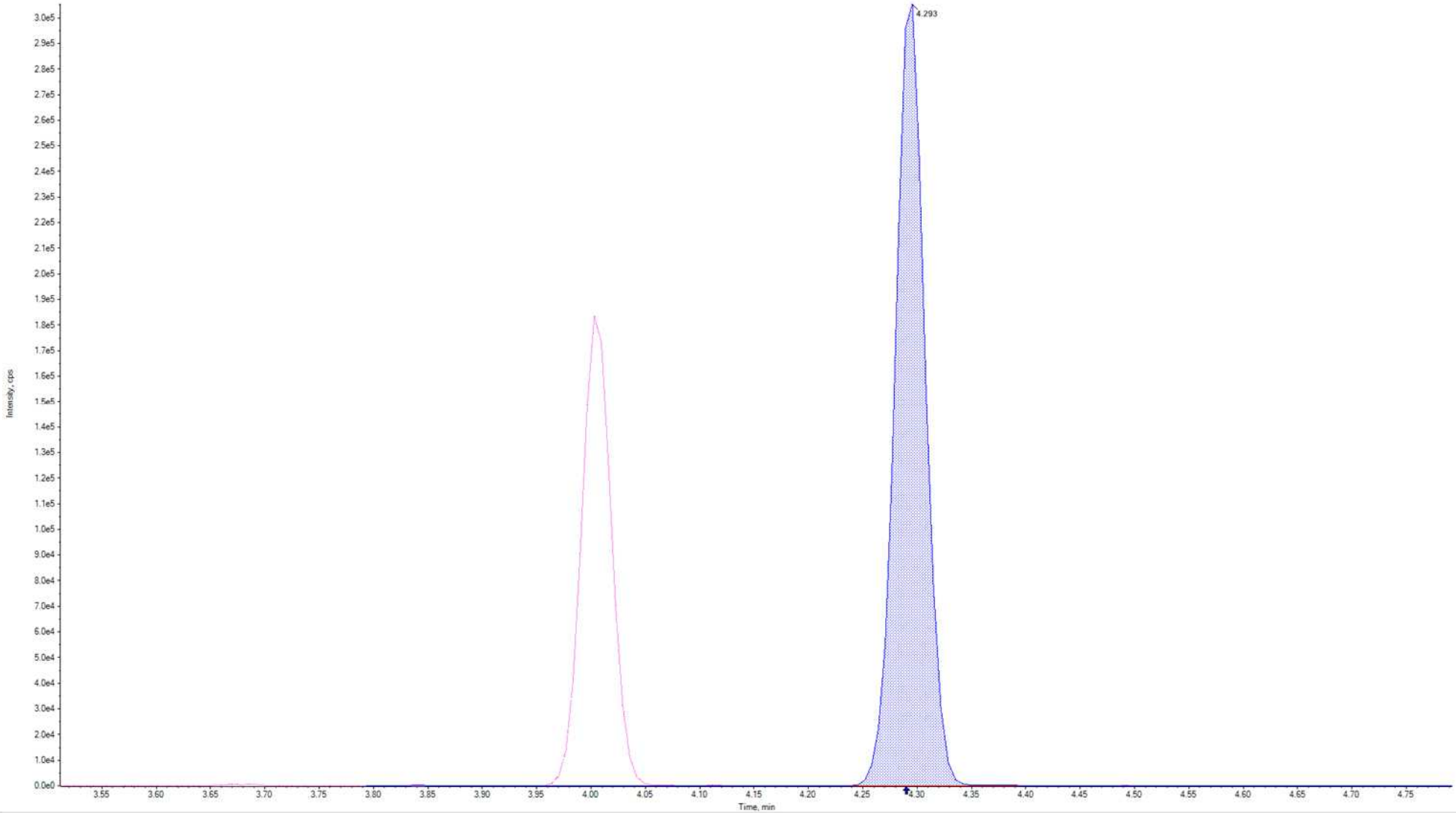
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

ADONA_2
Sample: IA1633STD-.5 S/N:3206.1 Points Across peak:23



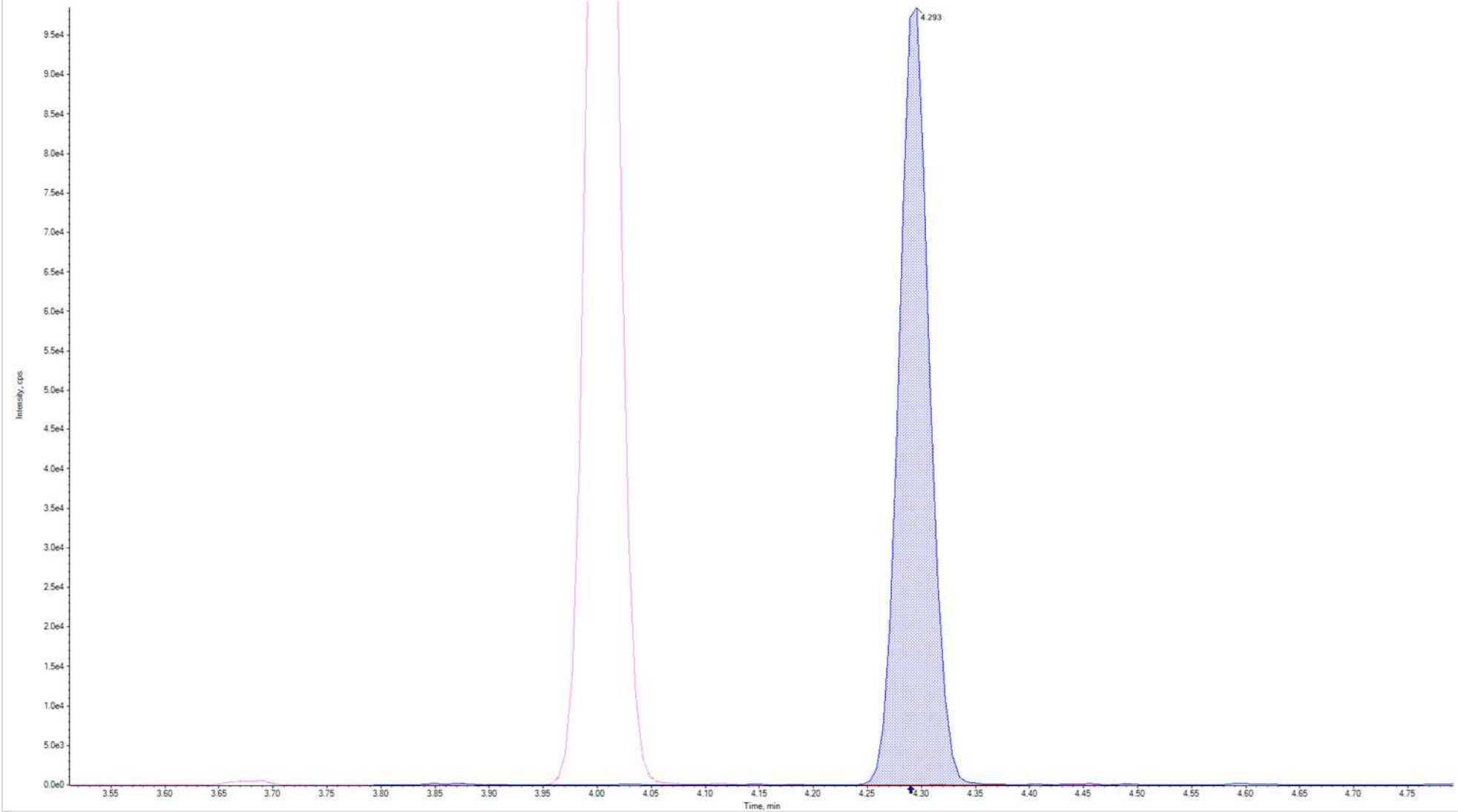
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS
Sample: IA1633STD-.5 S/N:6890.2 Points Across peak:34



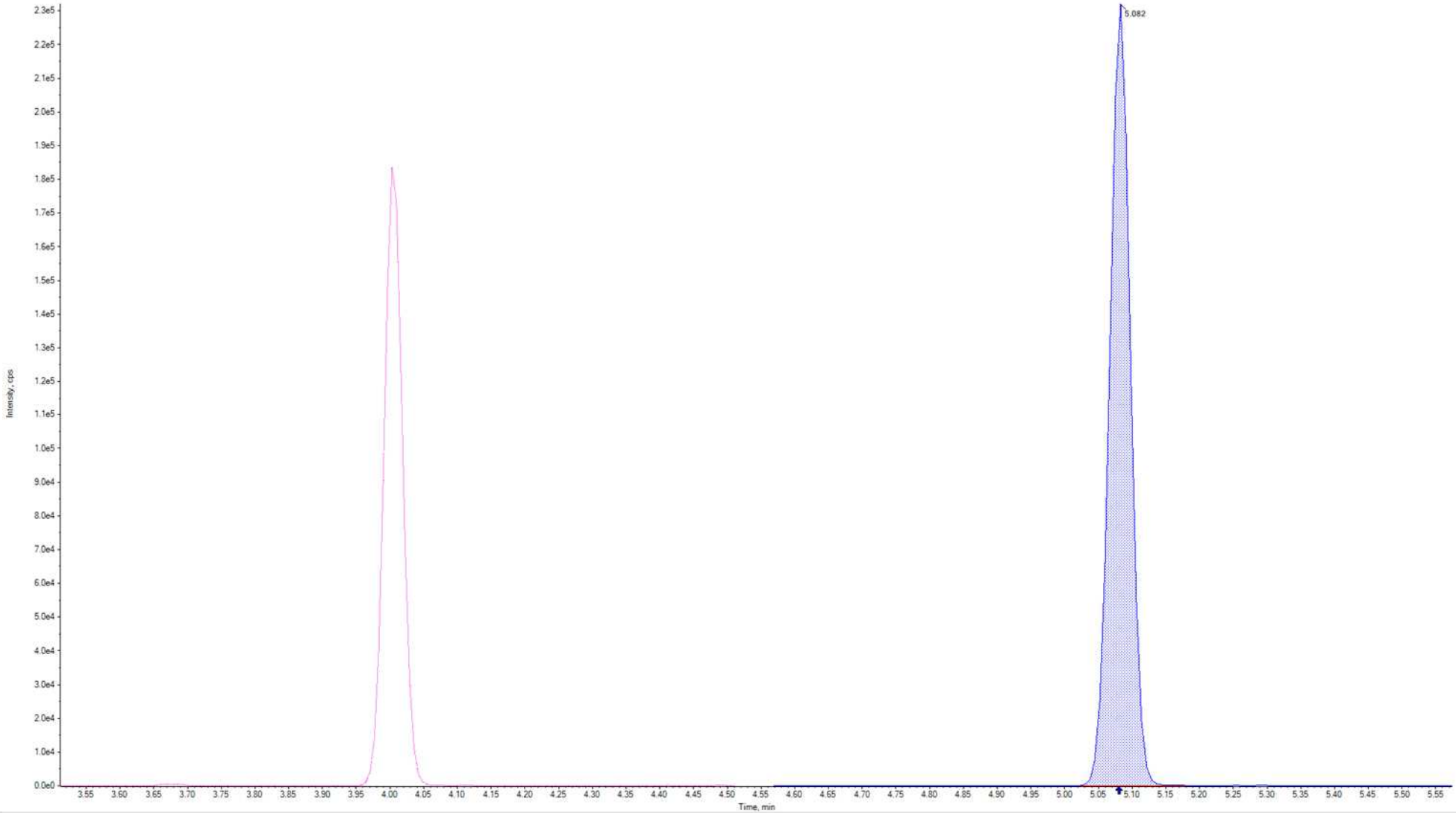
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS_2
Sample: IA1633STD-.5 S/N:2221.5 Points Across peak:26



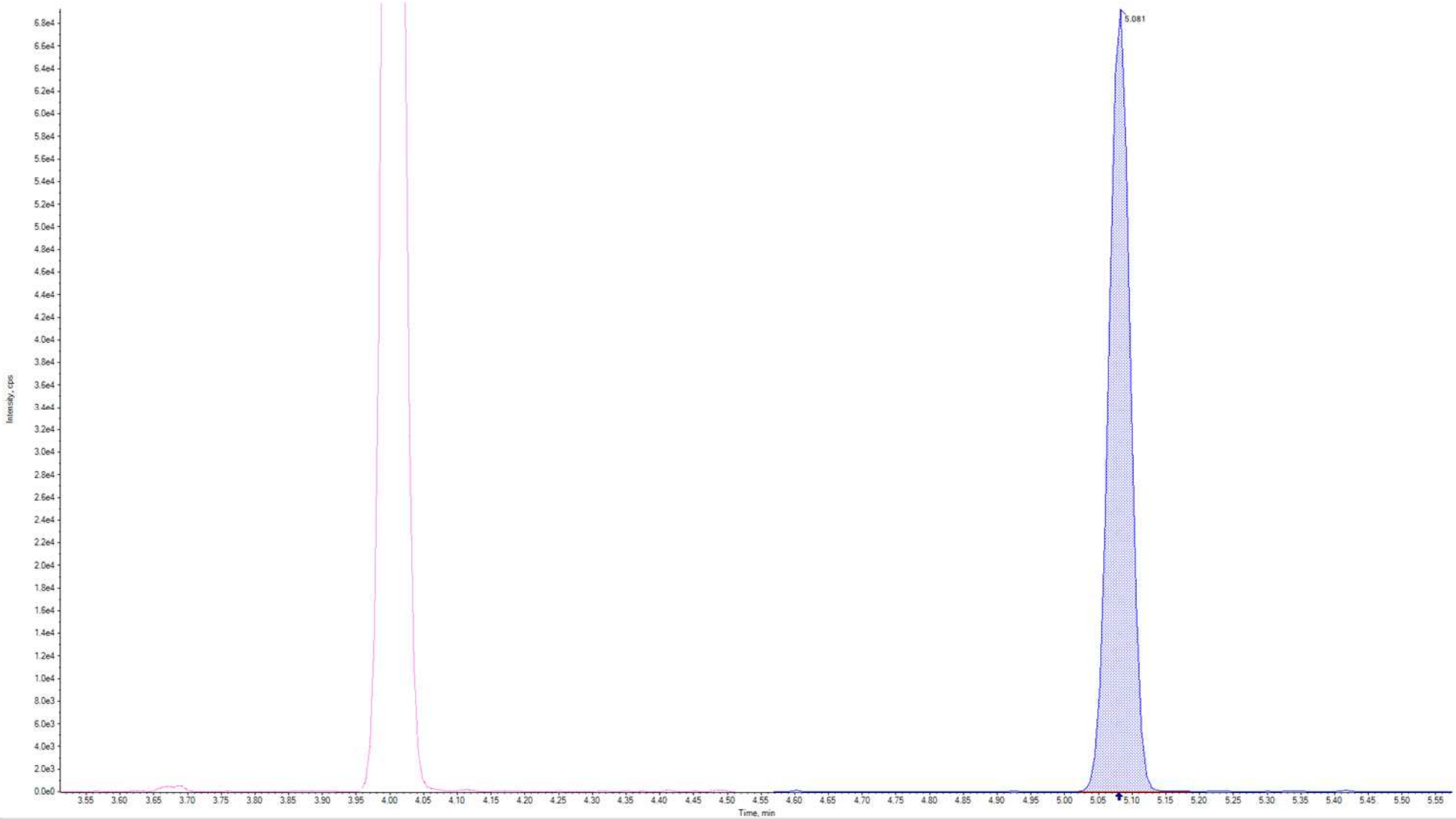
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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11Cl-PF3OUdS
Sample: IA1633STD-.5 S/N:3649.1 Points Across peak:27



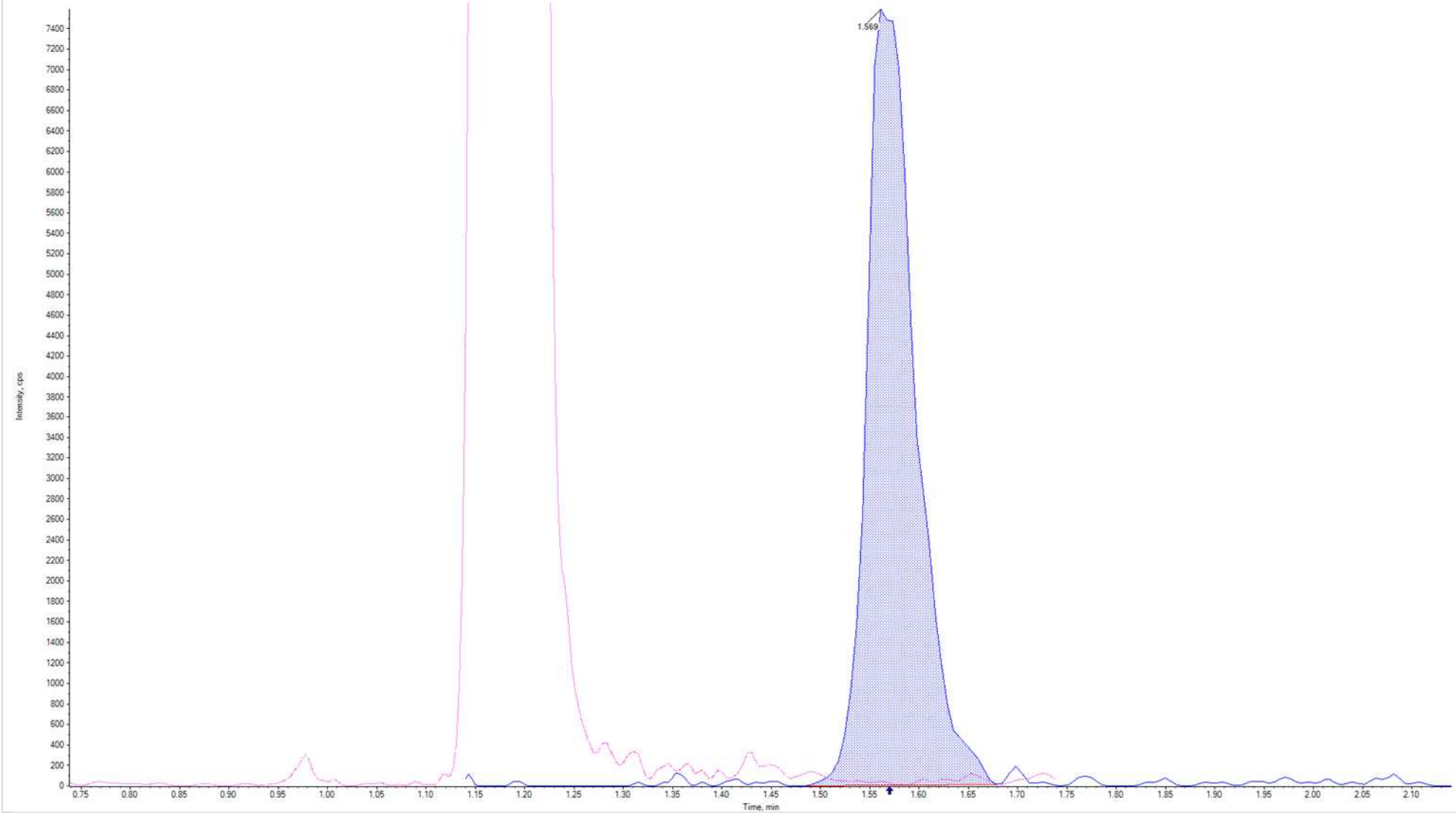
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Alpha Analytical LLC
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11Cl-PF3OUdS_2
Sample: IA1633STD-.5 S/N:3051.8 Points Across peak:26



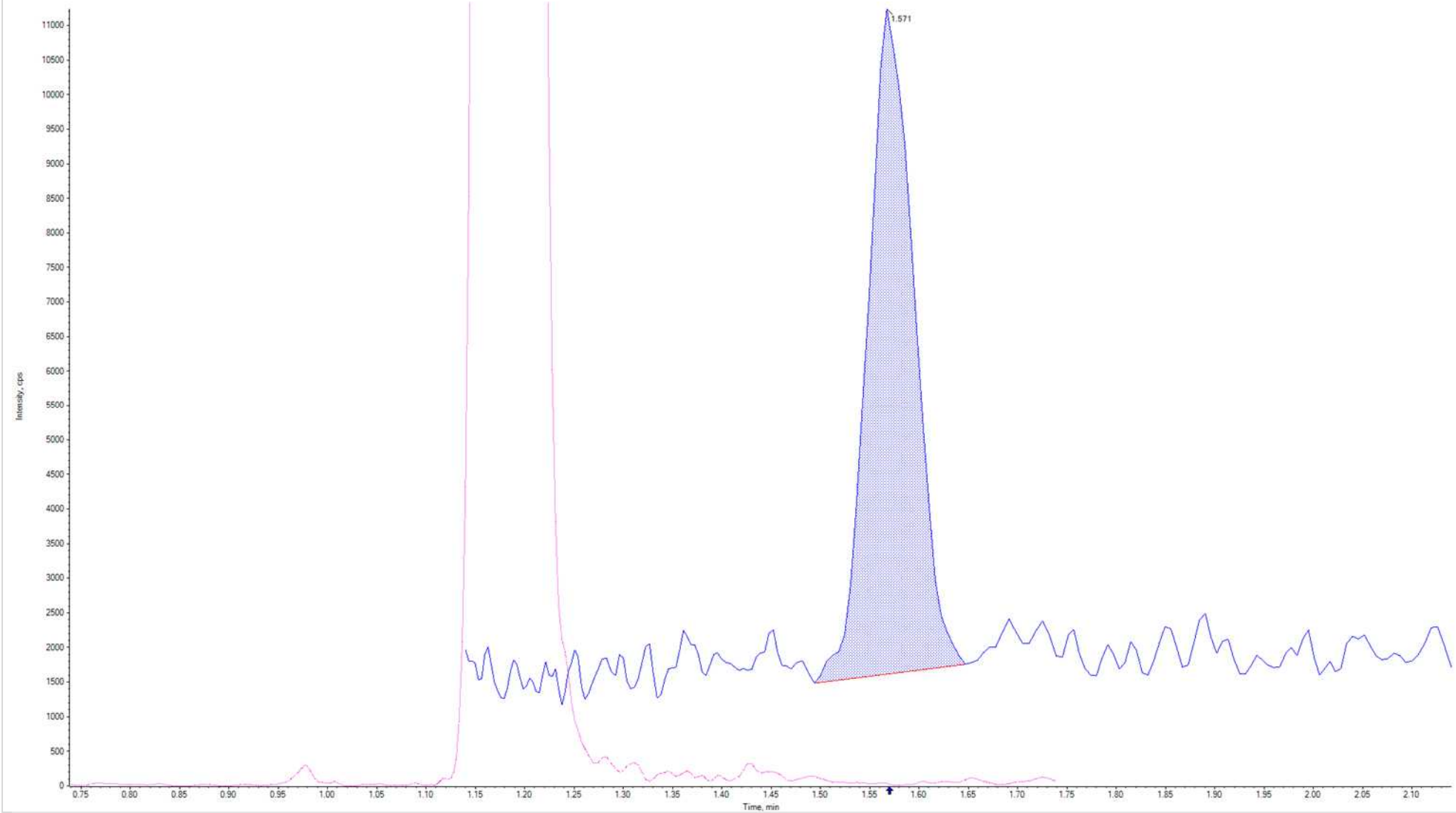
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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3:3FTCA
Sample: IA1633STD-.5 S/N:190.1 Points Across peak:33



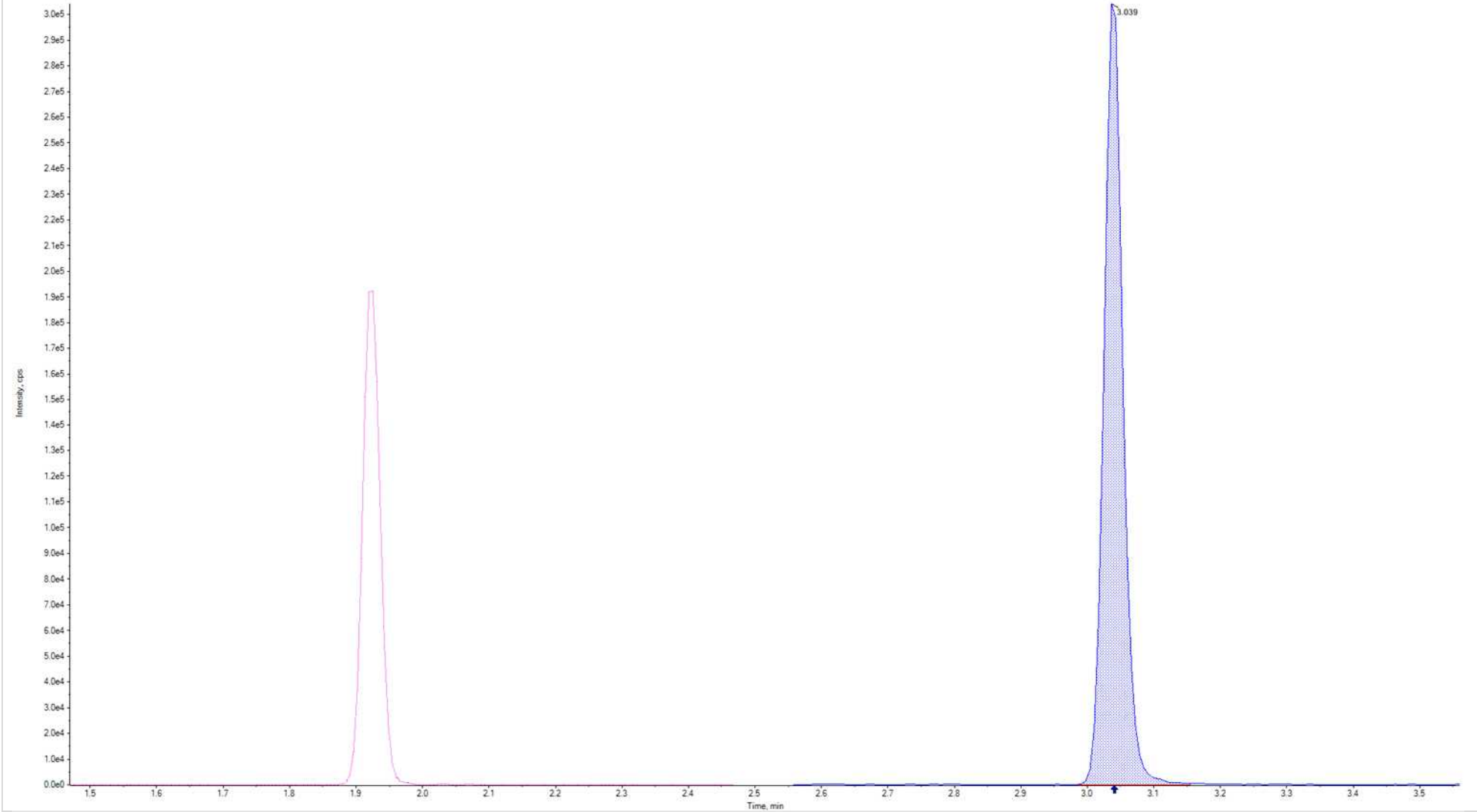
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
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3:3FTCA_2
Sample: IA1633STD-.5 S/N:77.9 Points Across peak:26



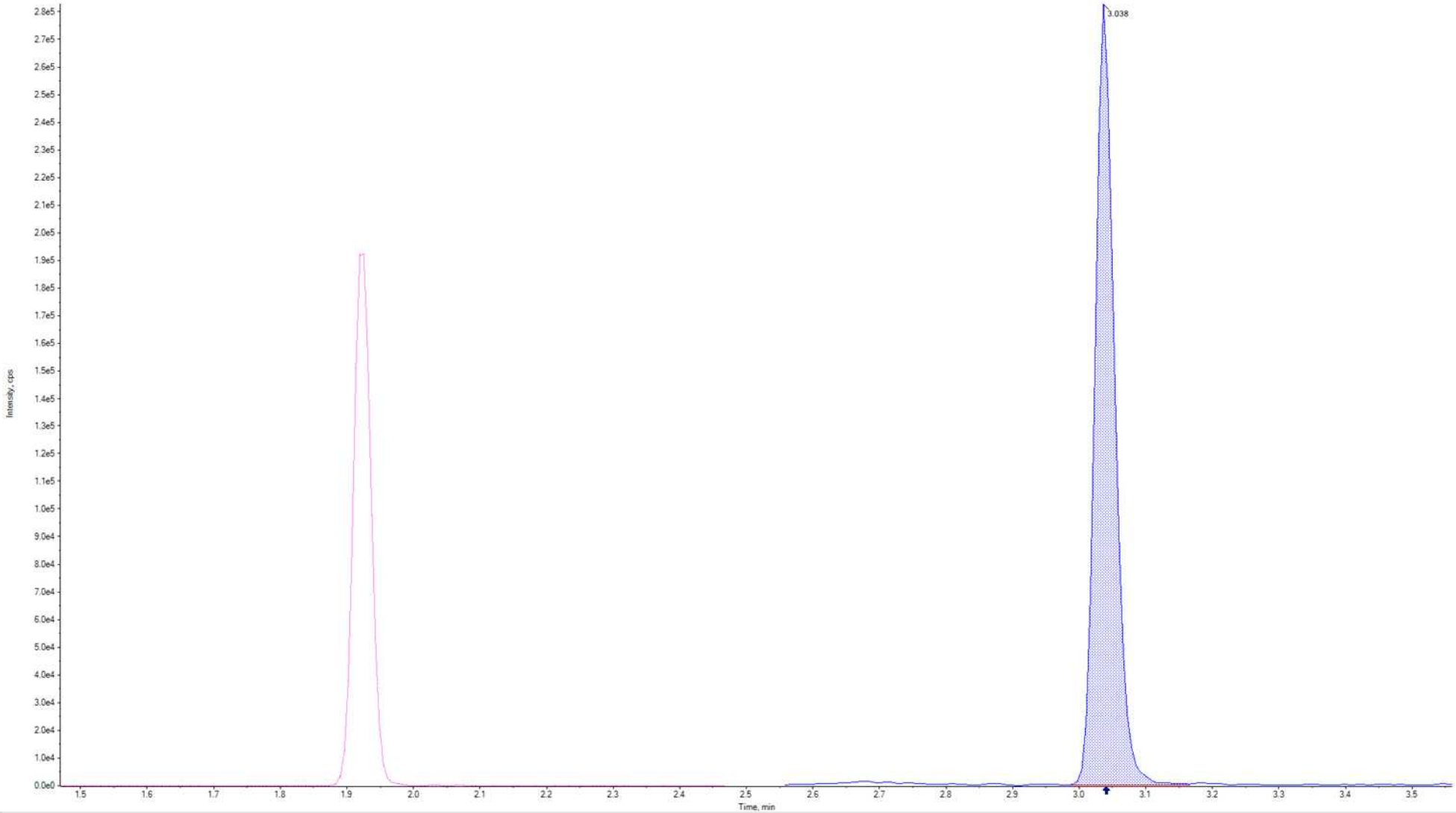
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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5:3FTCA
Sample: IA1633STD-.5 S/N:6859.9 Points Across peak:30



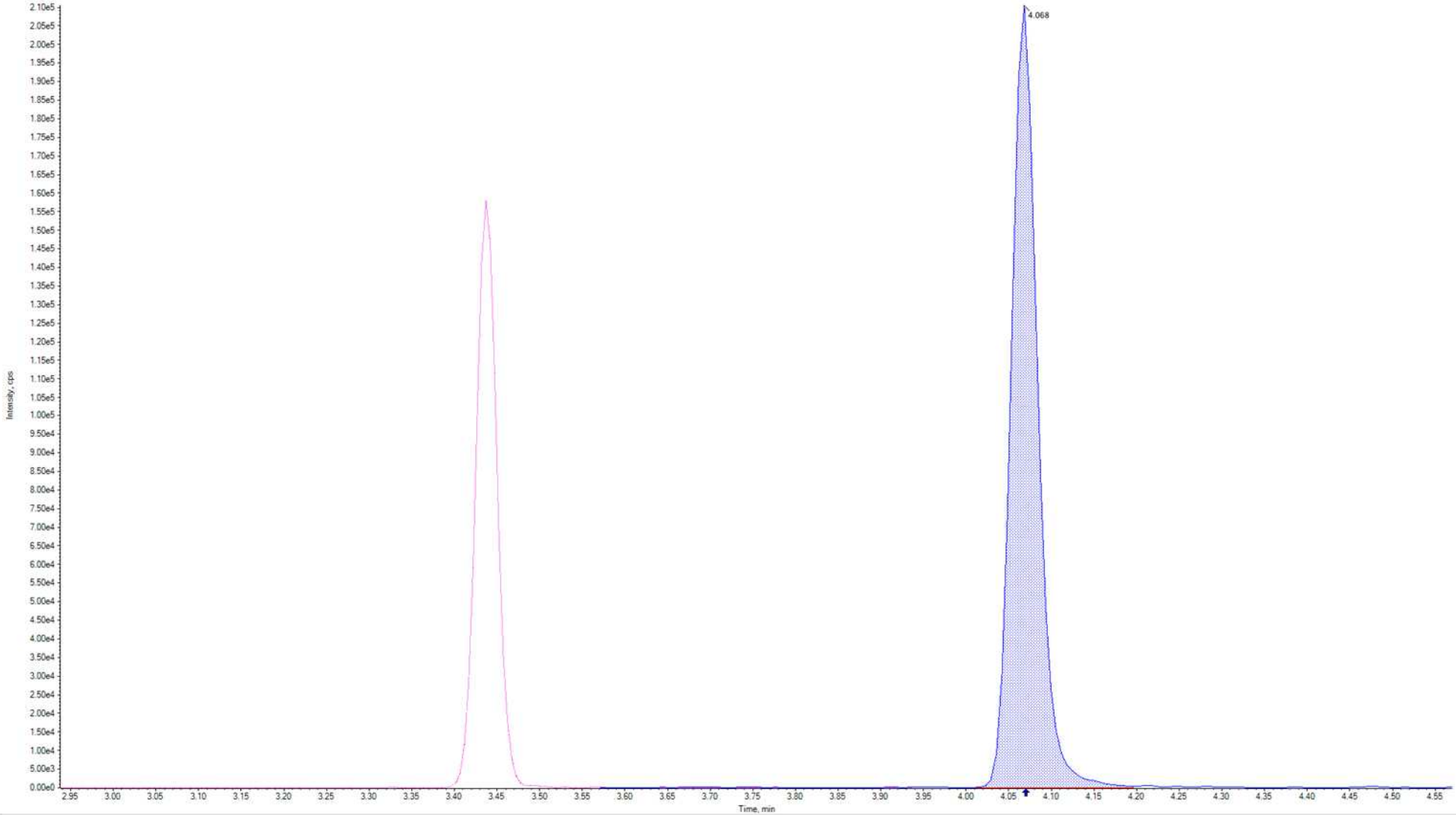
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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5:3FTCA_2
Sample: IA1633STD-.5 S/N:2438.2 Points Across peak:32



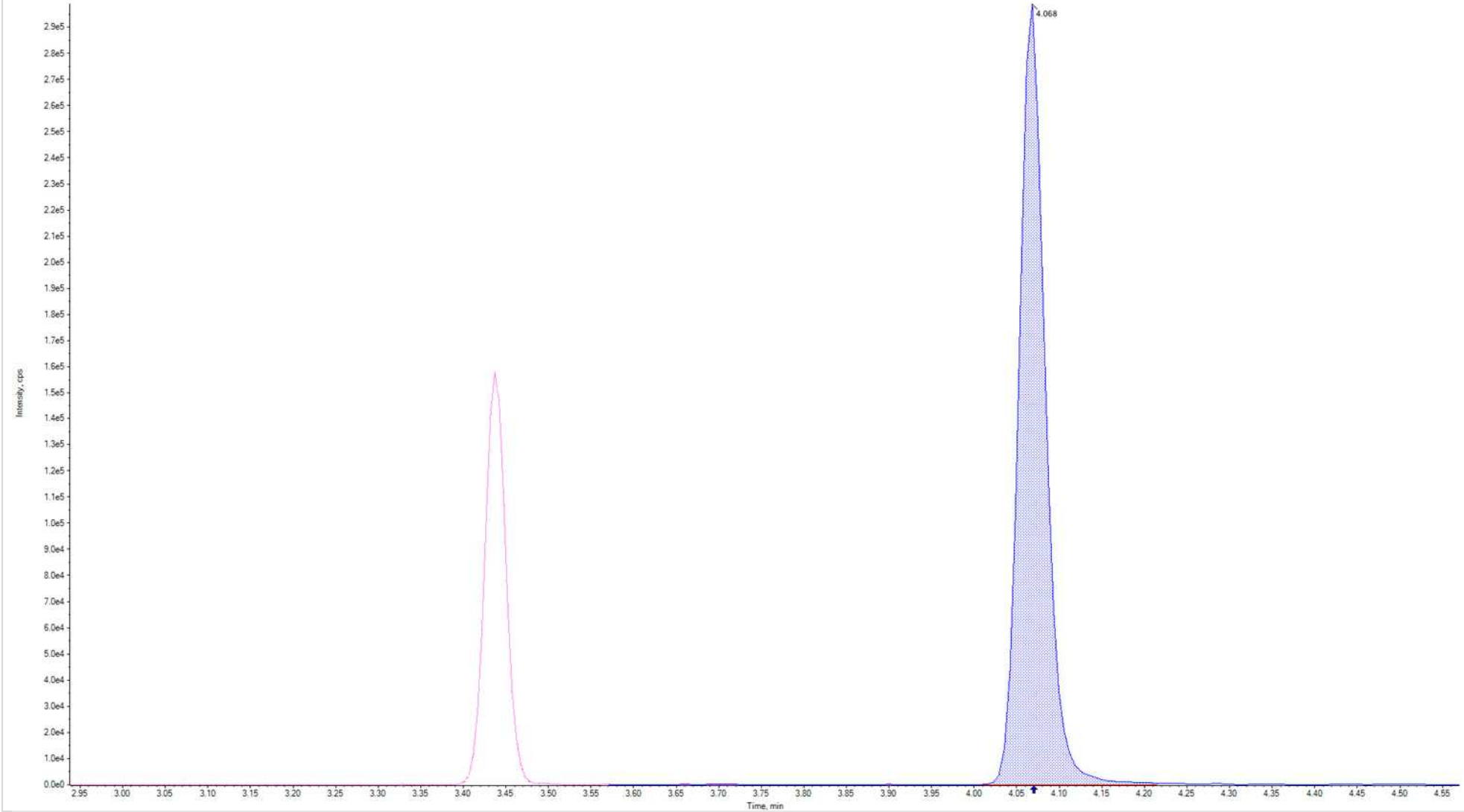
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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7:3FTCA
Sample: IA1633STD-.5 S/N:5803.0 Points Across peak:33



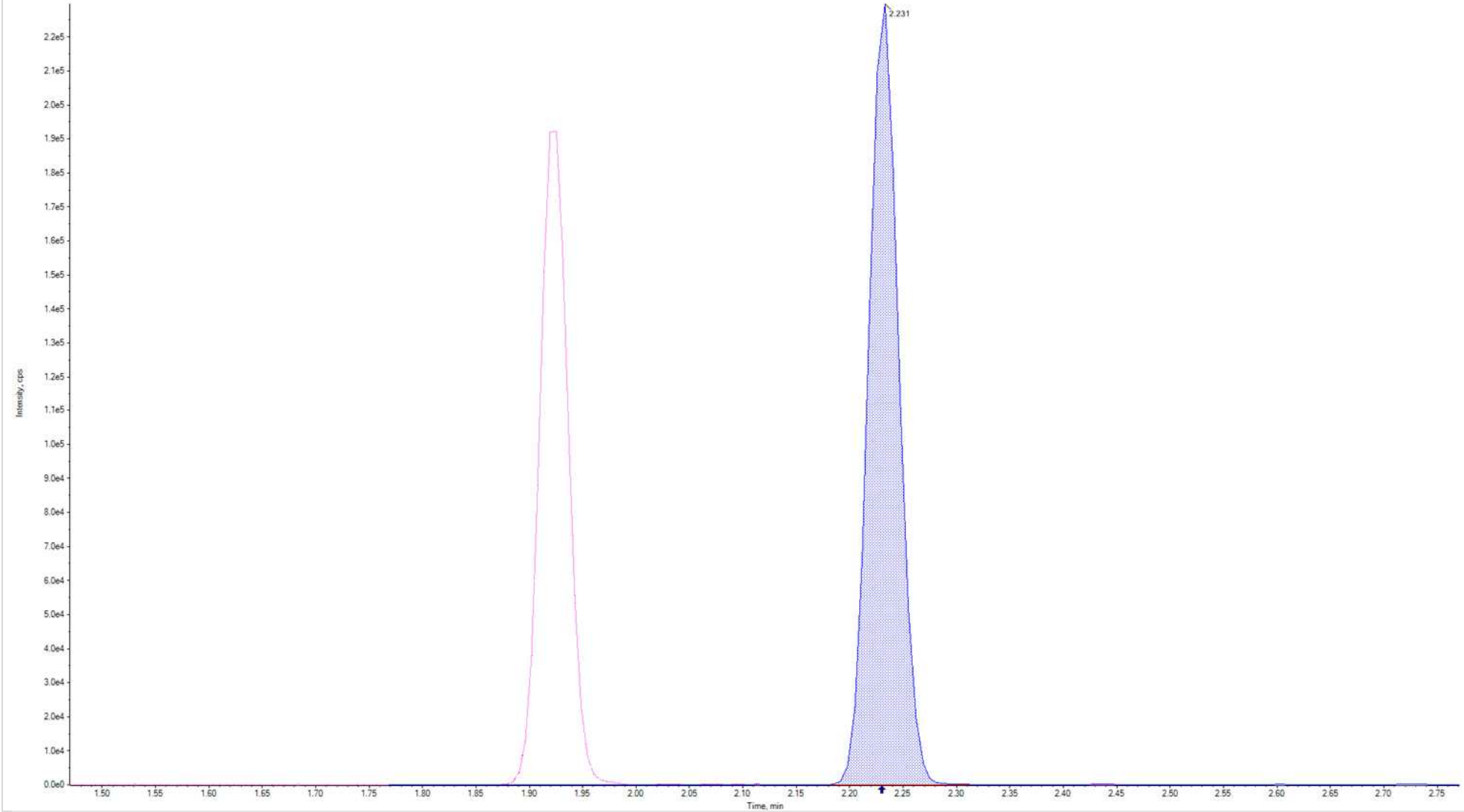
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_24.wiff2_3
Last Altered: 3/4/2025 6:51:07 AM
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7:3FTCA_2
Sample: IA1633STD-.5 S/N:8239.6 Points Across peak:36



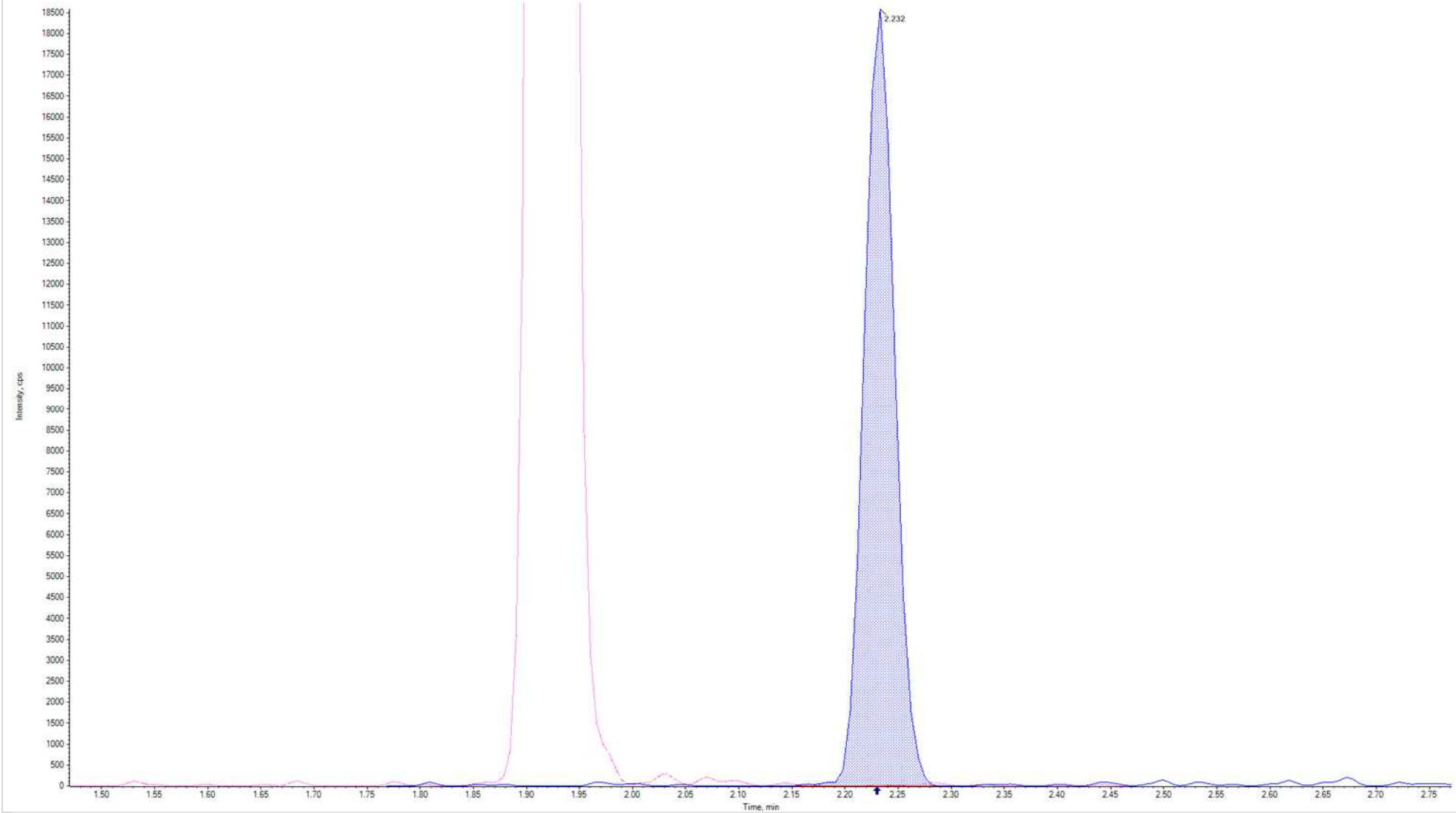
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFEESA
Sample: IA1633STD-.5 S/N:5181.6 Points Across peak:27



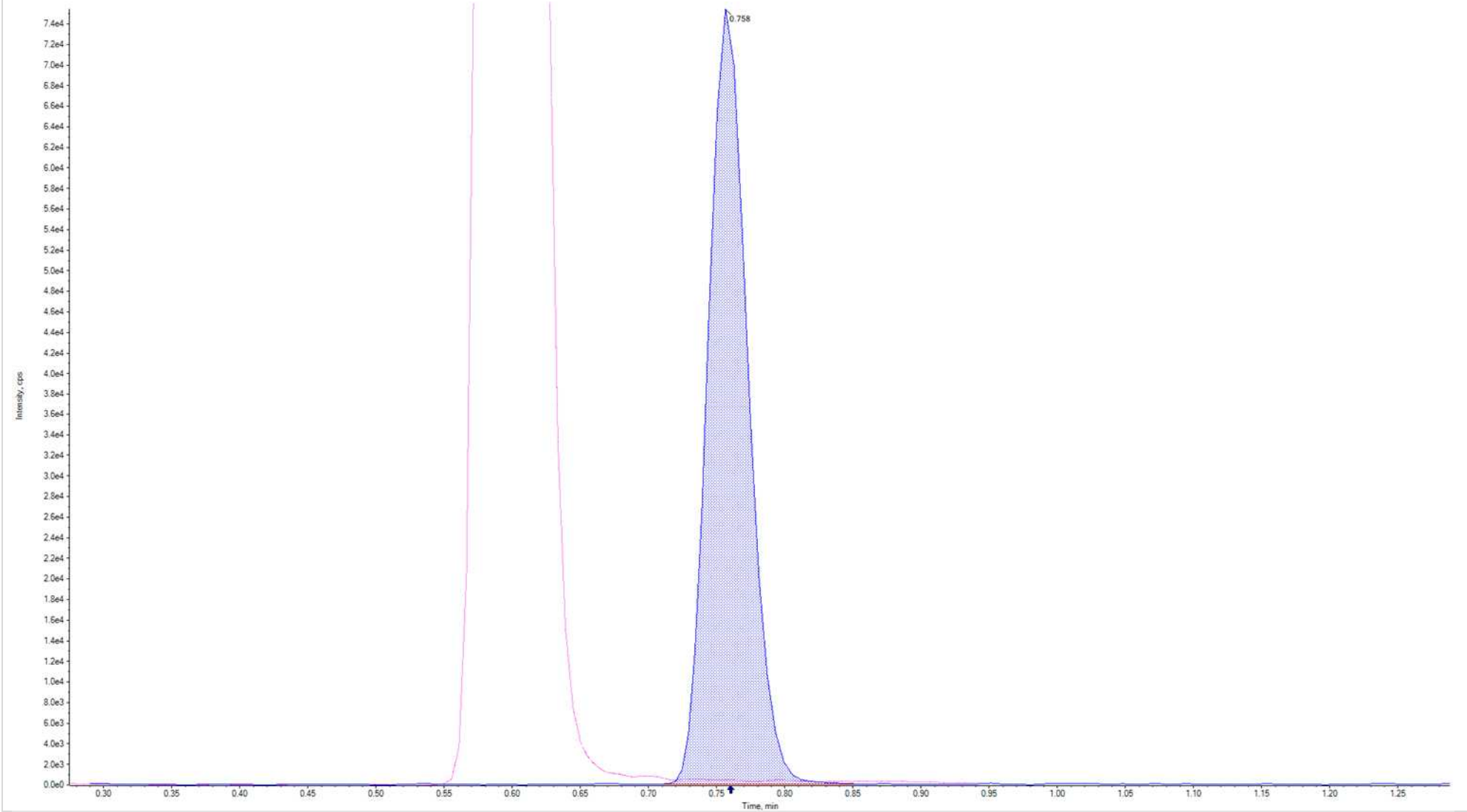
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFEESA_2
Sample: IA1633STD-.5 S/N:419.2 Points Across peak:28



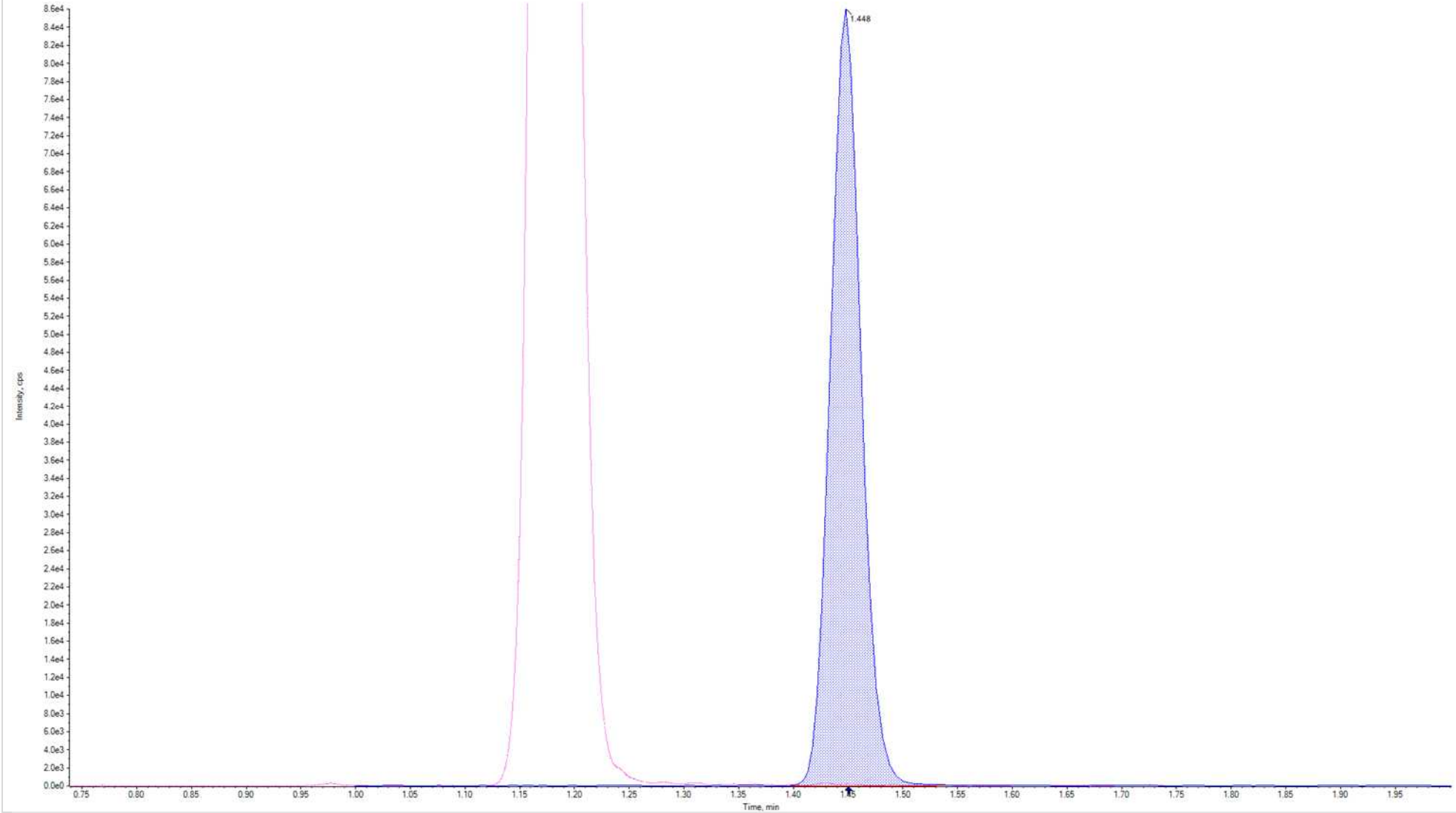
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFMPA
Sample: IA1633STD-.5 S/N:3764.9 Points Across peak:30



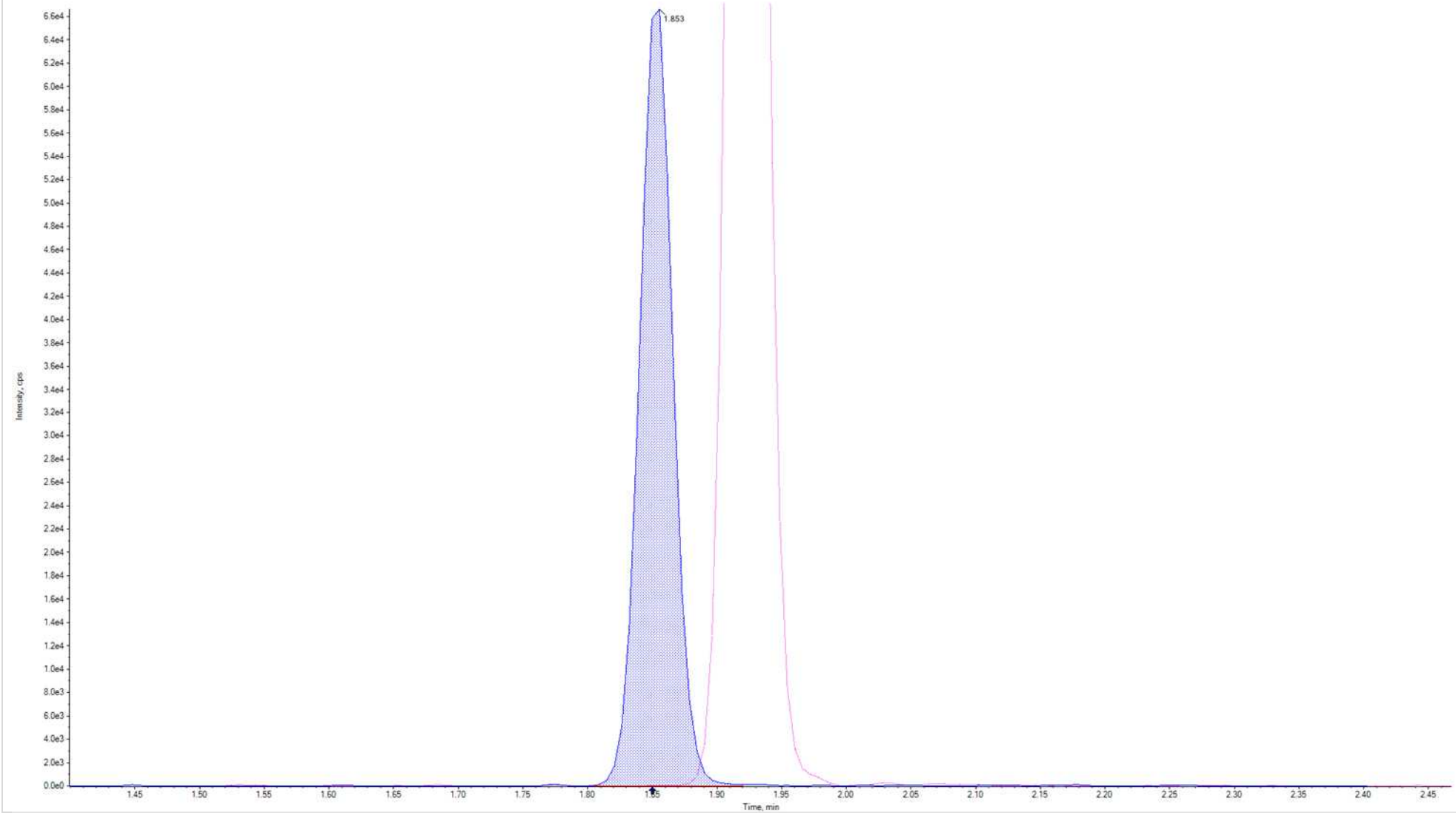
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFMBA
Sample: IA1633STD-.5 S/N:4957.2 Points Across peak:32



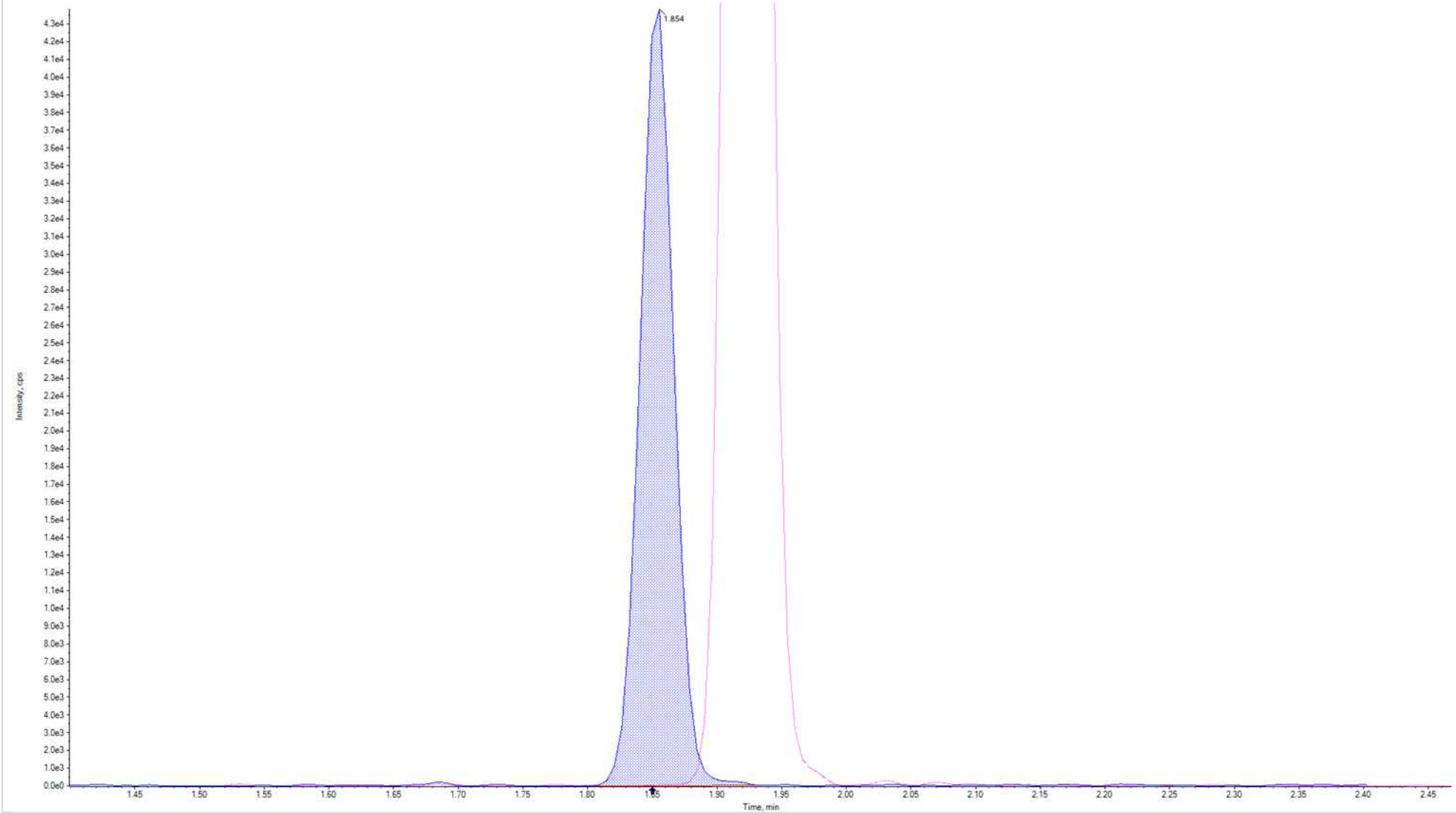
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NFDHA
Sample: IA1633STD-.5 S/N:1837.1 Points Across peak:22



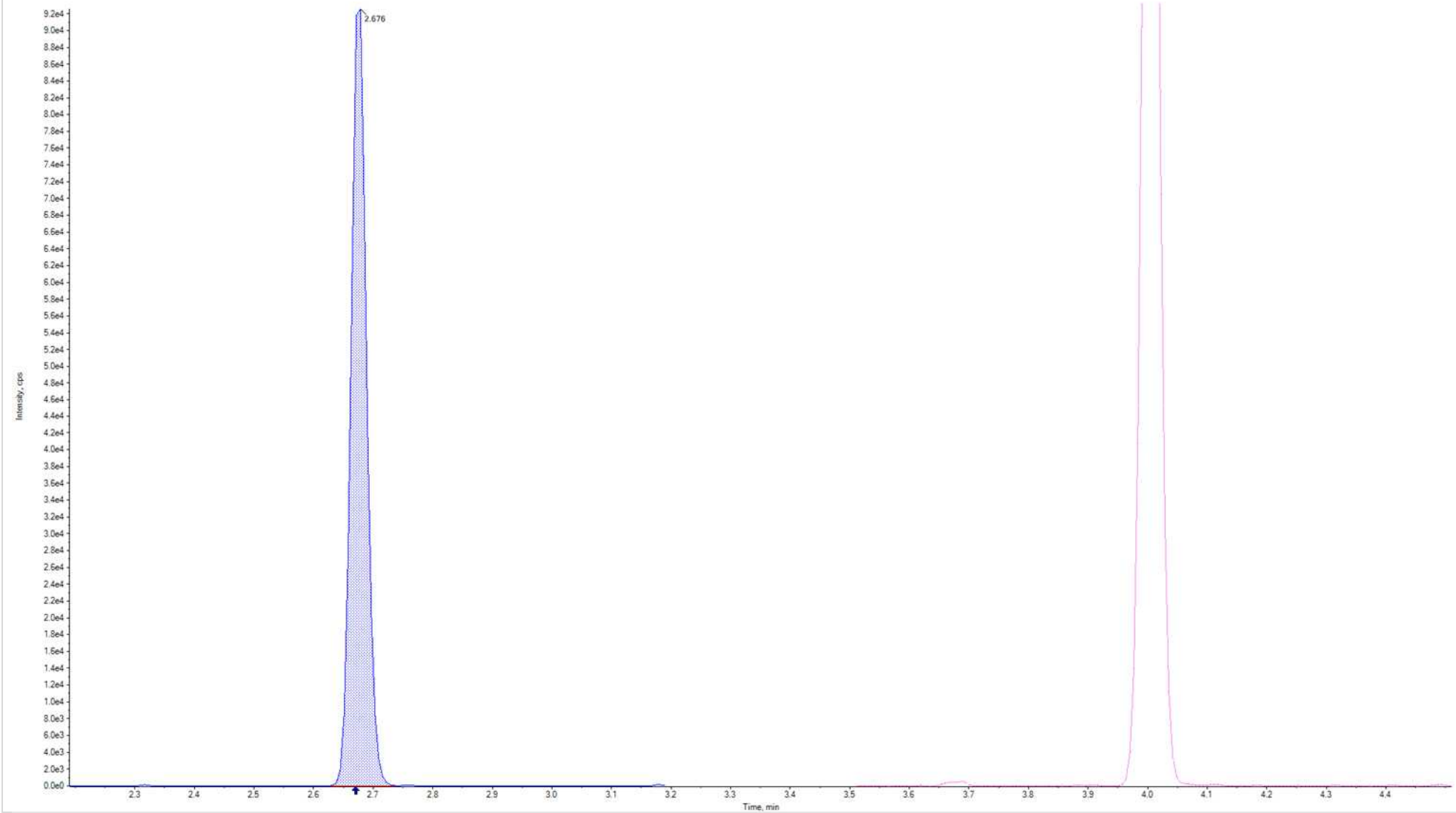
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NFDHA_2
Sample: IA1633STD-.5 S/N:1208.3 Points Across peak:25



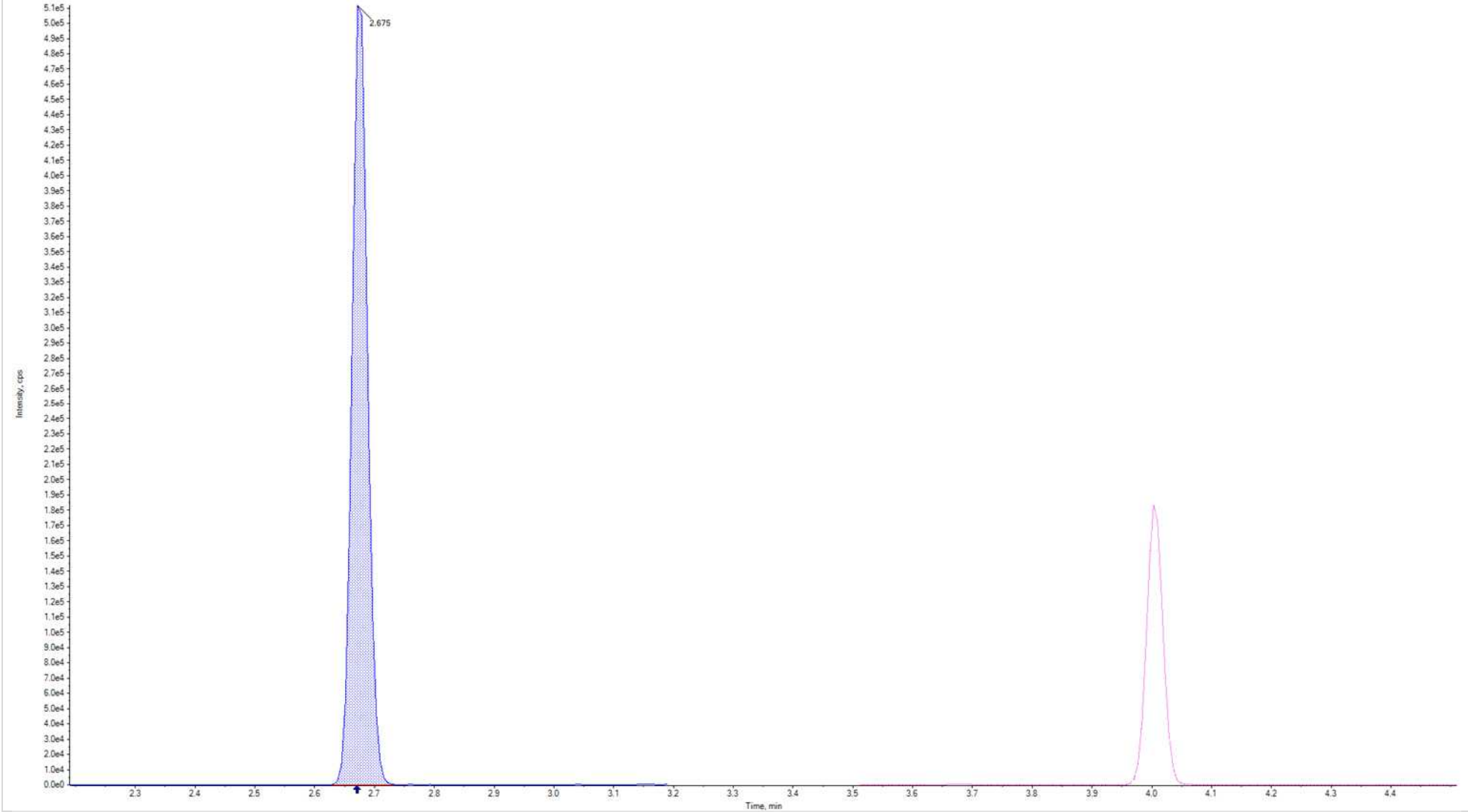
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Alpha Analytical LLC
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TDCA
Sample: IA1633STD-.5 S/N:1856.0 Points Across peak:25



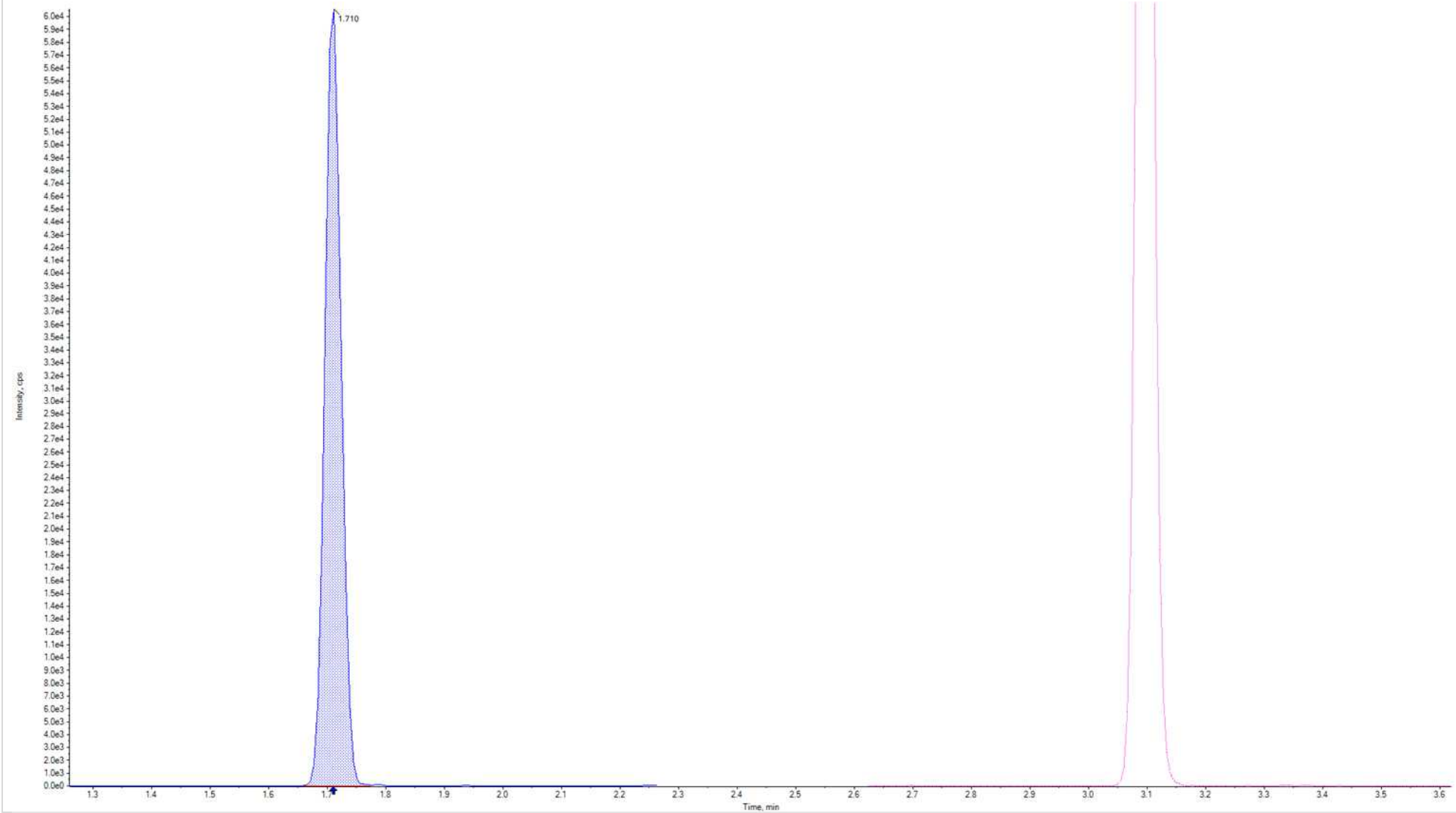
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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TDCA_2
Sample: IA1633STD-.5 S/N:5297.0 Points Across peak:20



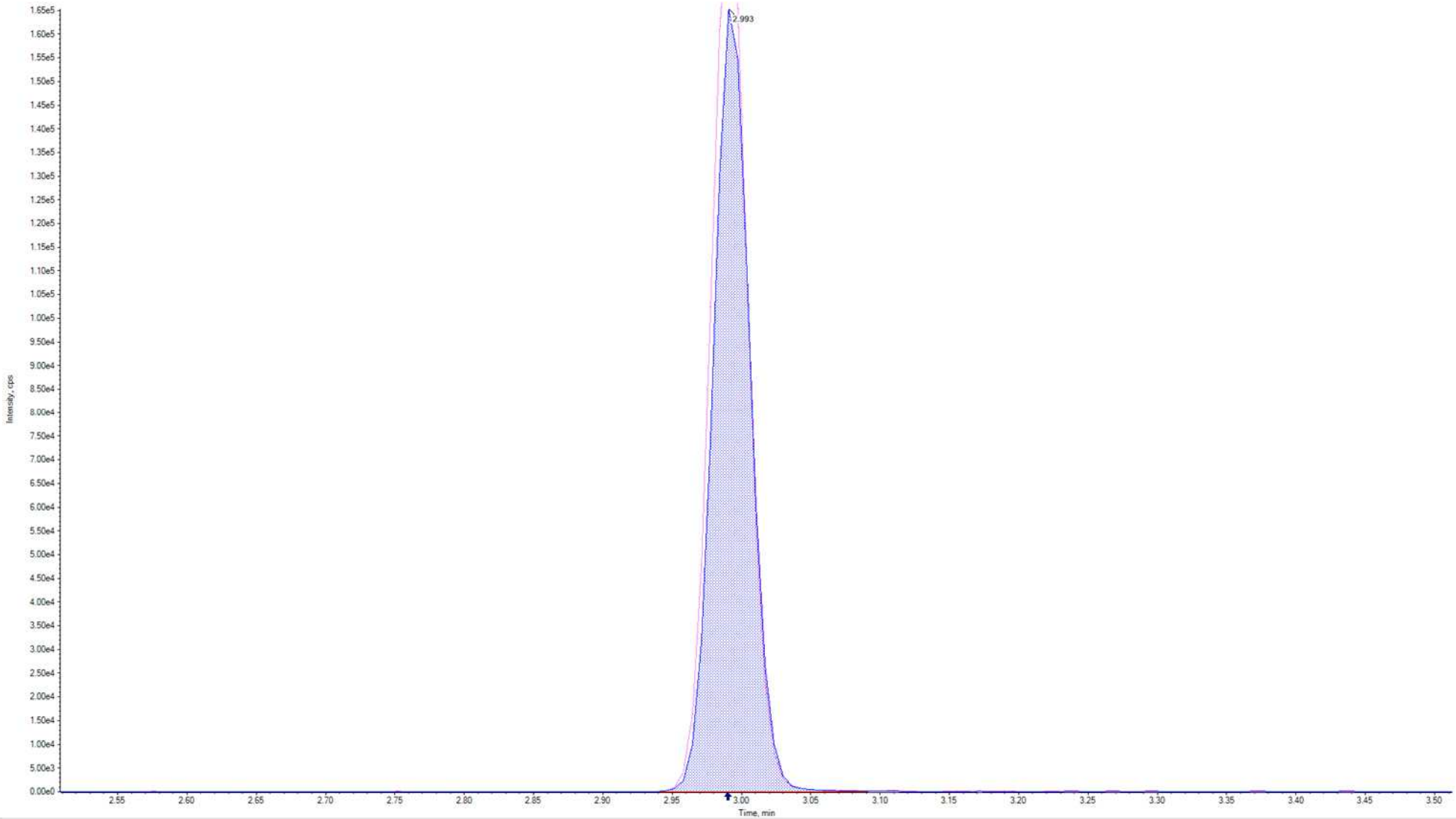
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

13C2D4-4:2FTS
Sample: IA1633STD-.5 S/N:2278.1 Points Across peak:26

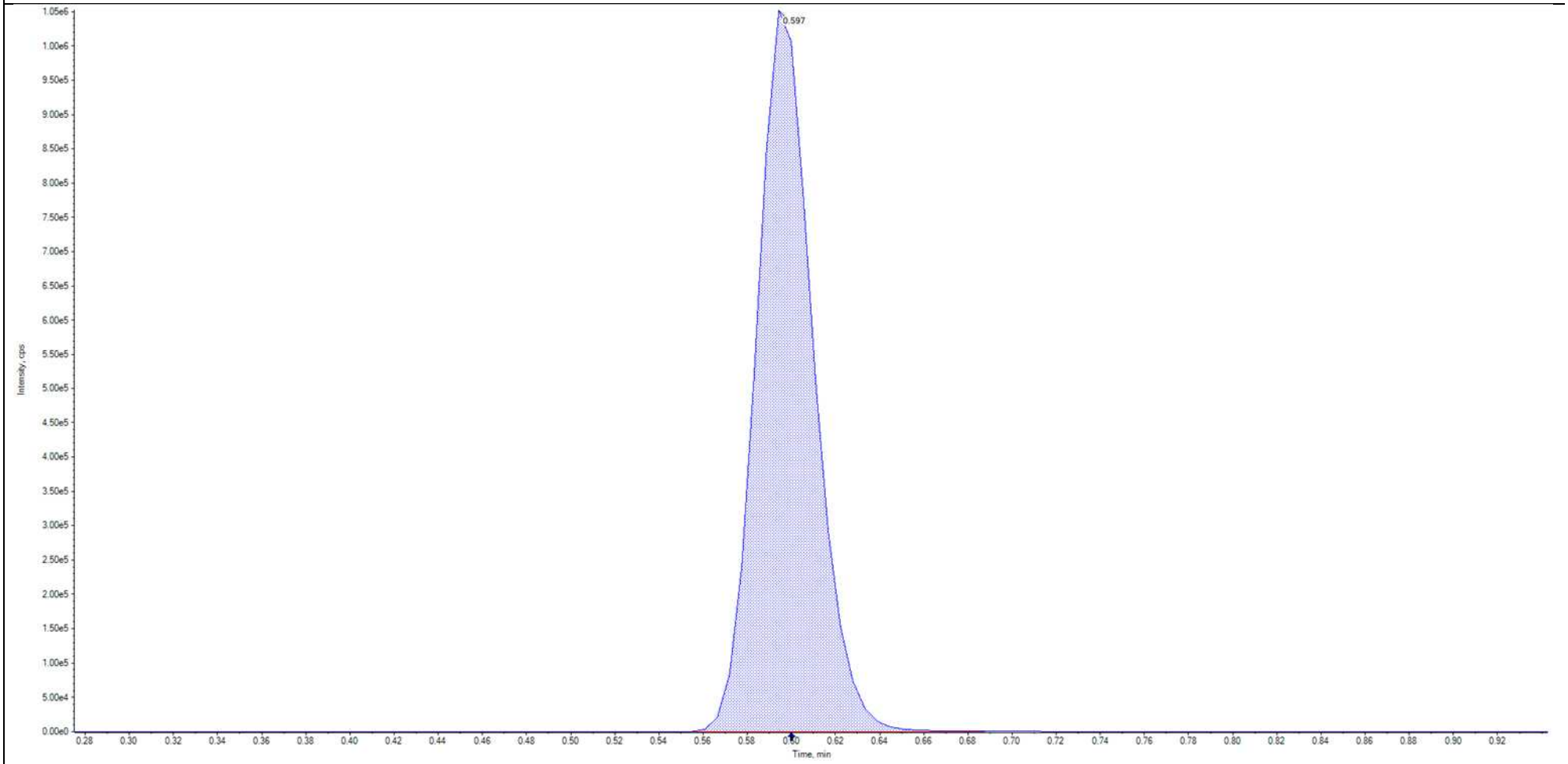


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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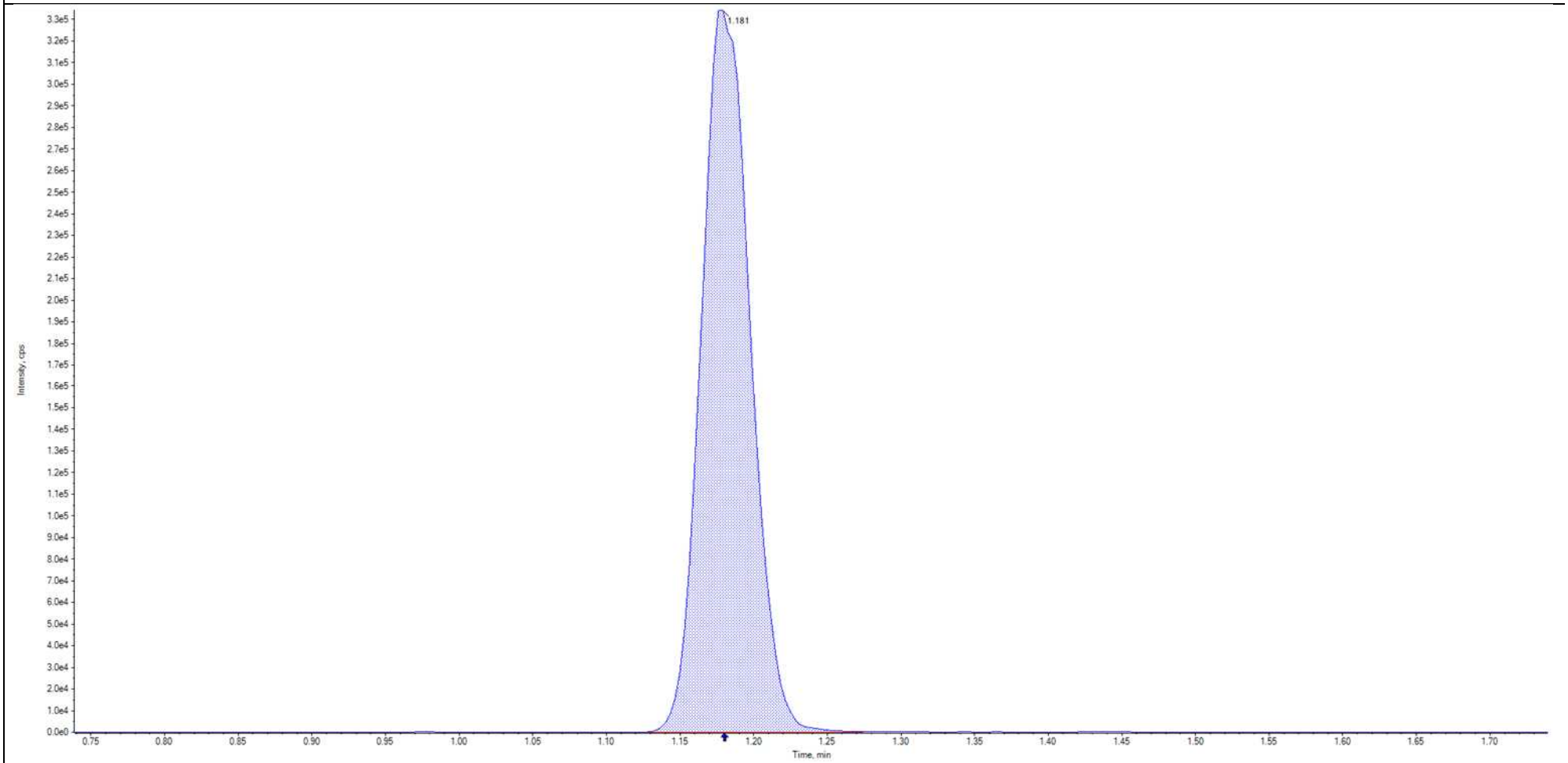
13C2-PFOA
Sample: IA1633STD-.5 S/N:3728.4 Points Across peak:27



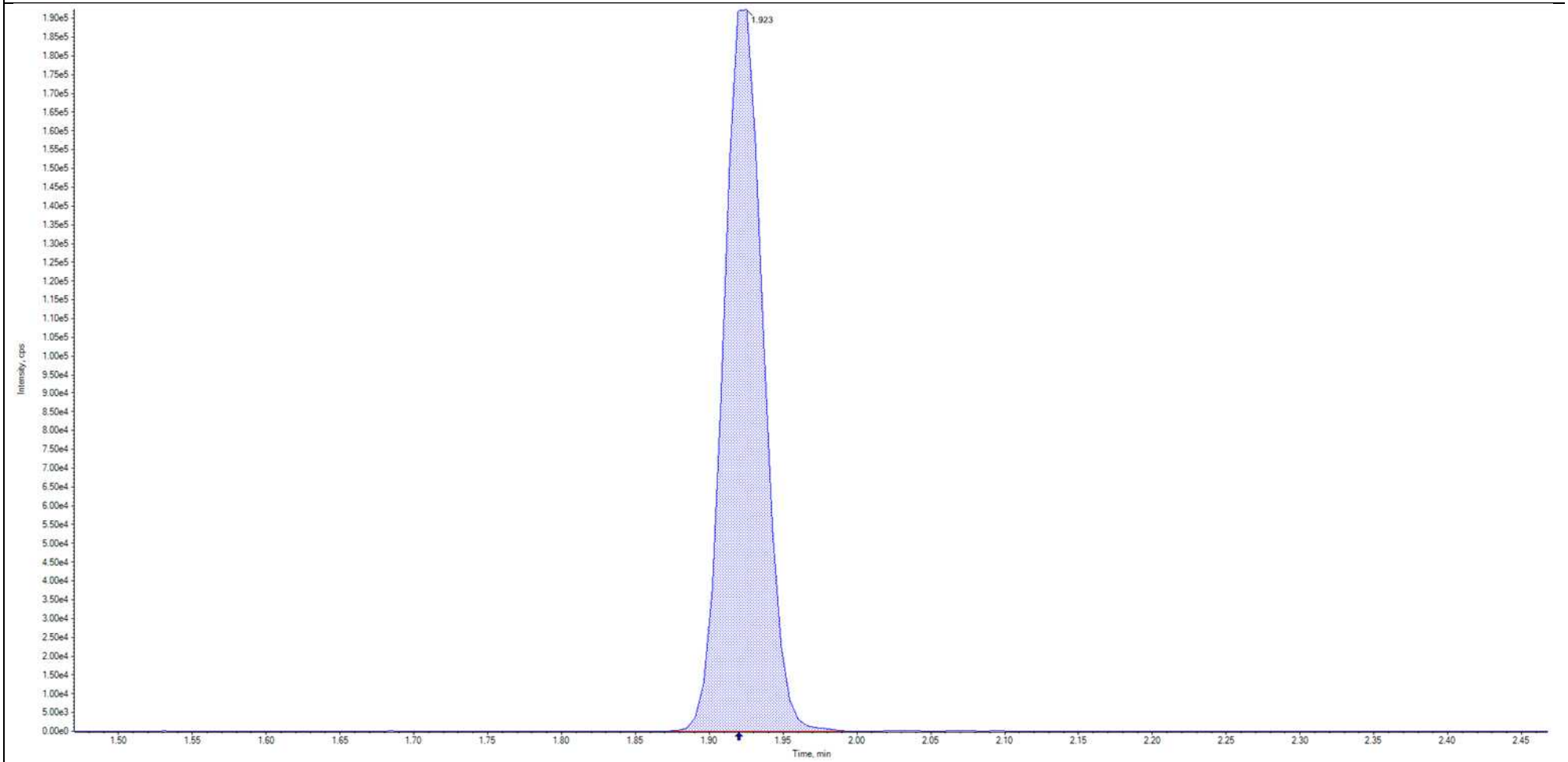
13C4-PFBA
Sample: IA1633STD-.5



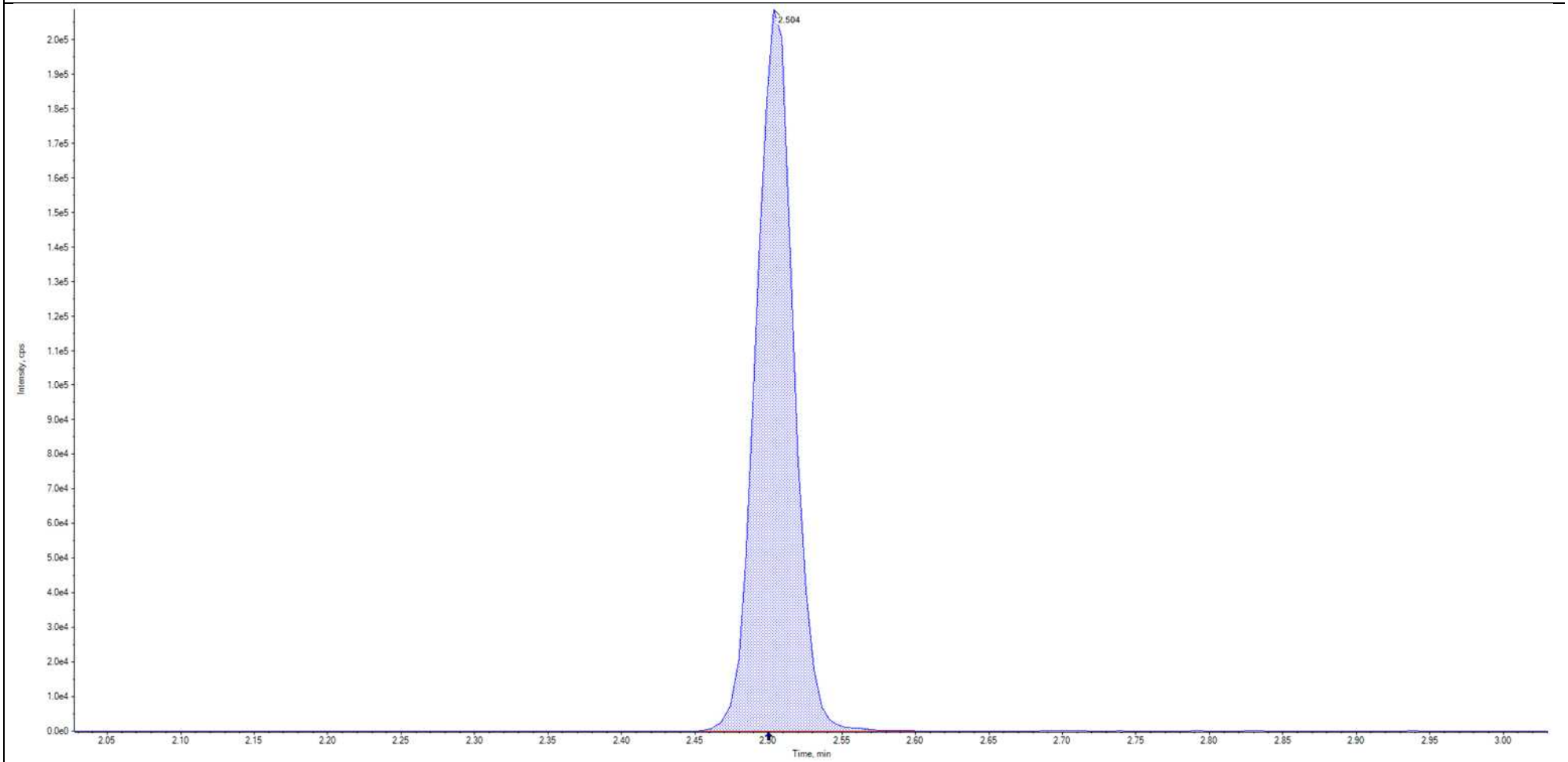
13C5-PFPeA
Sample: IA1633STD-.5



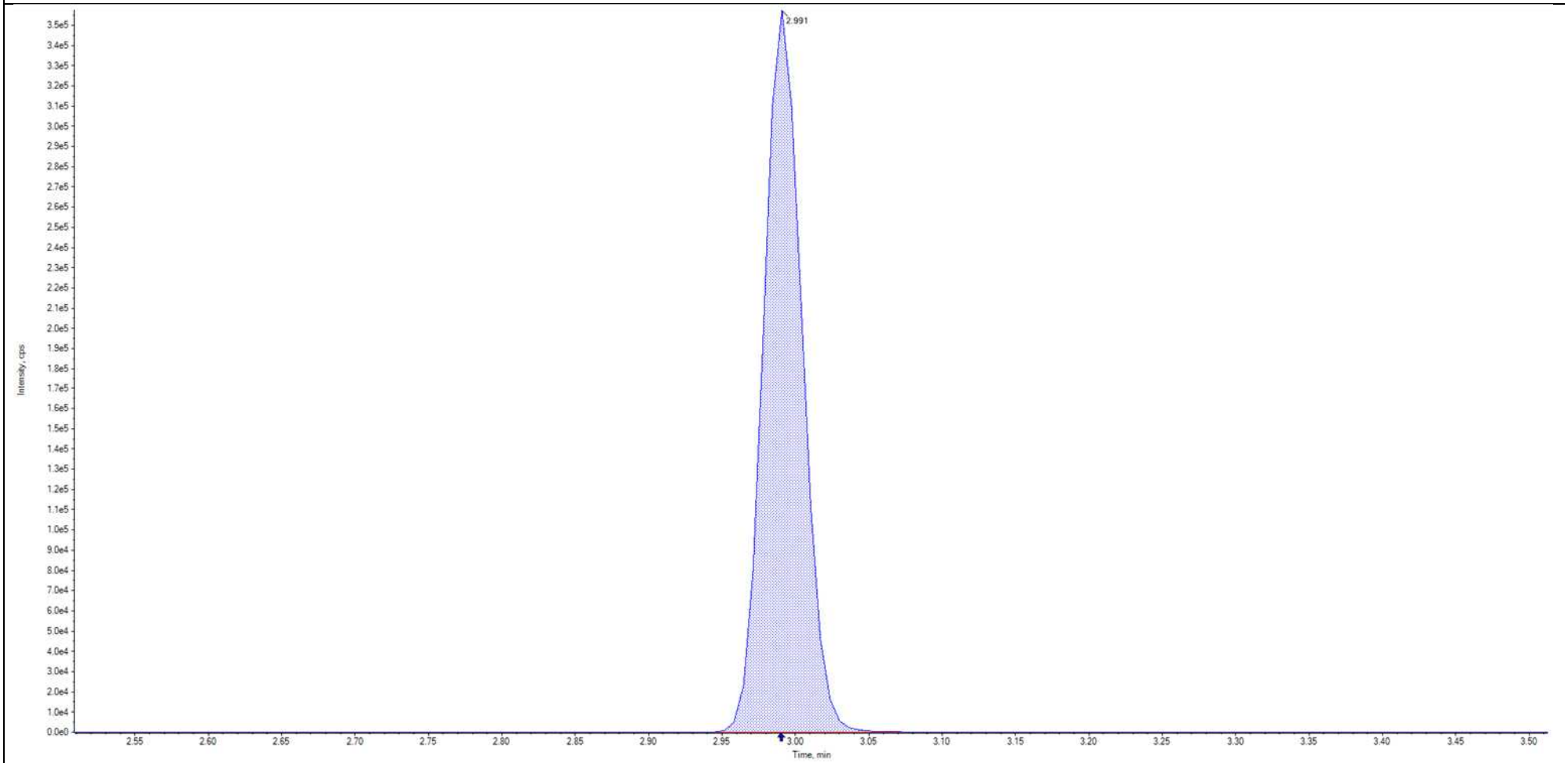
13C5-PFHxA
Sample: IA1633STD-.5



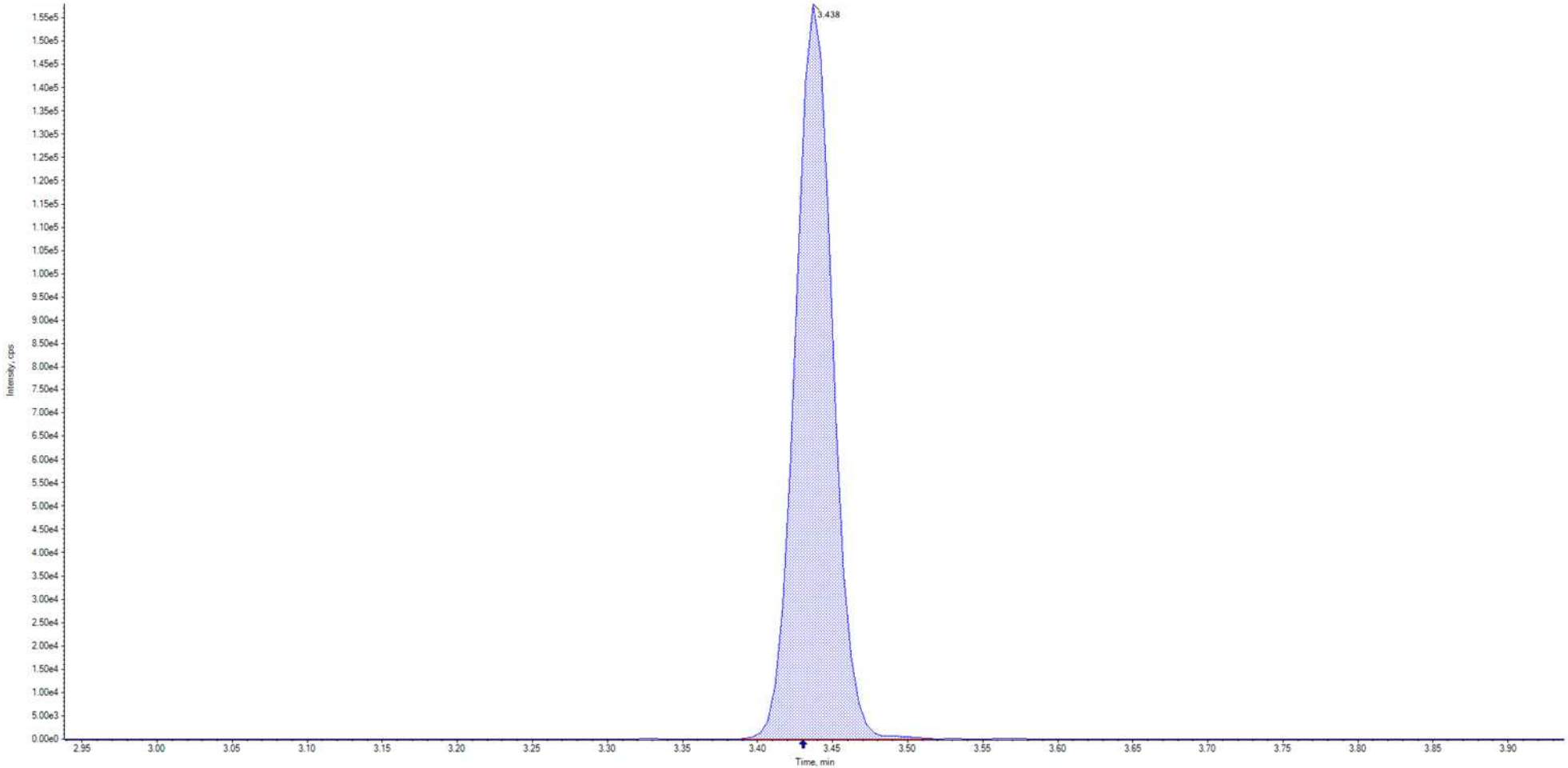
13C4-PFHpA
Sample: IA1633STD-.5



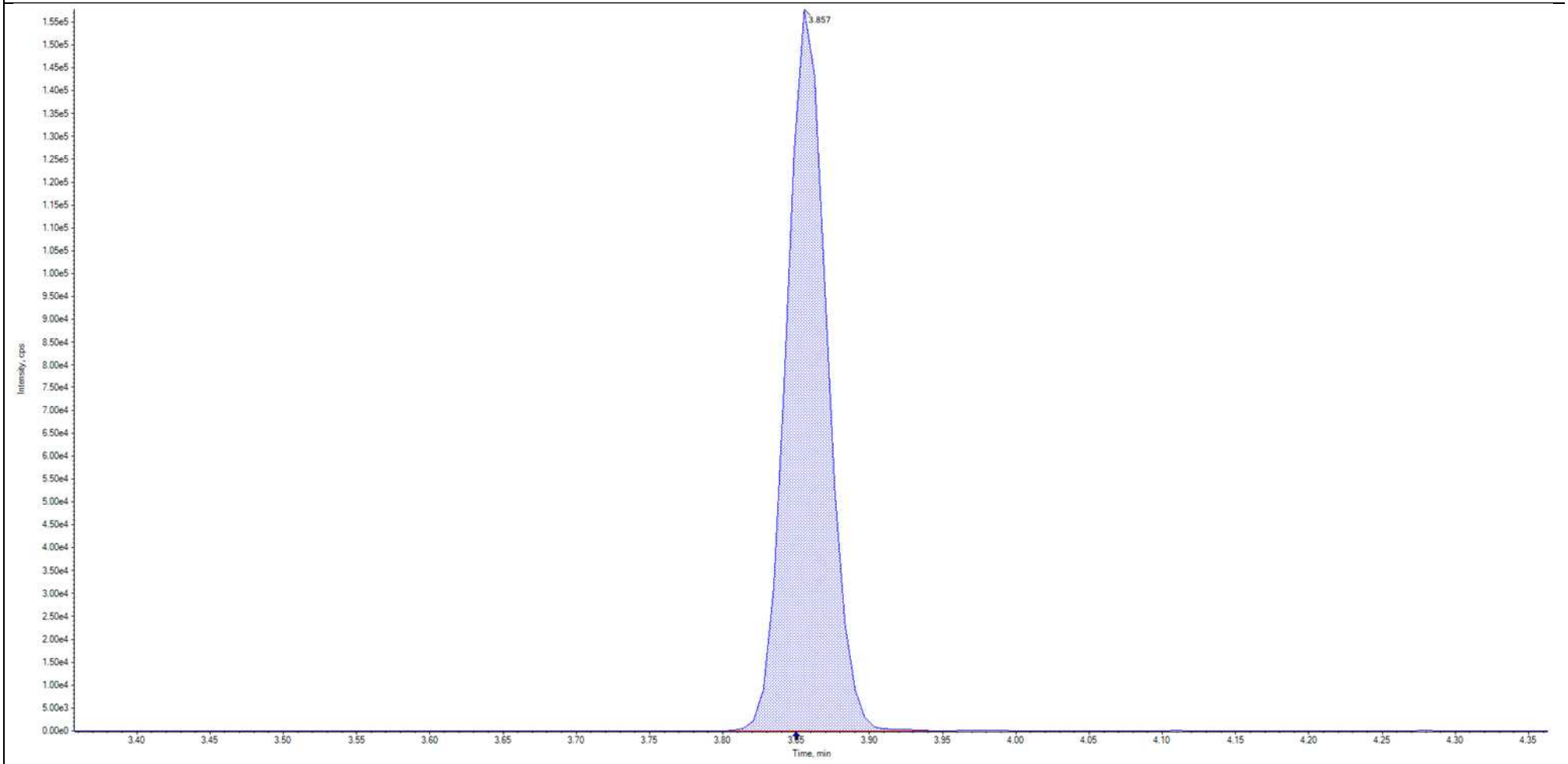
13C8-PFOA
Sample: IA1633STD-.5



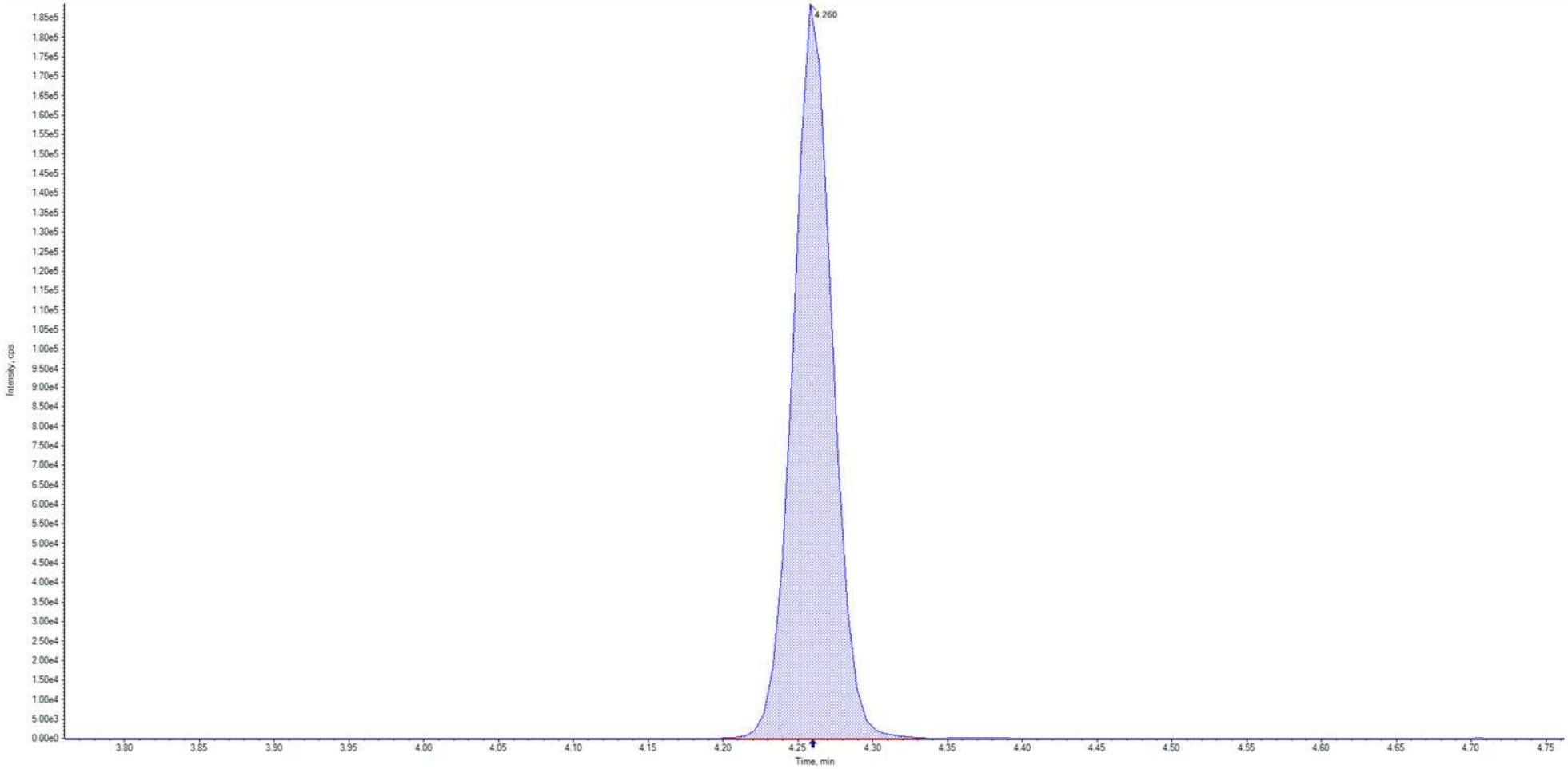
13C9-PFNA
Sample: IA1633STD-.5



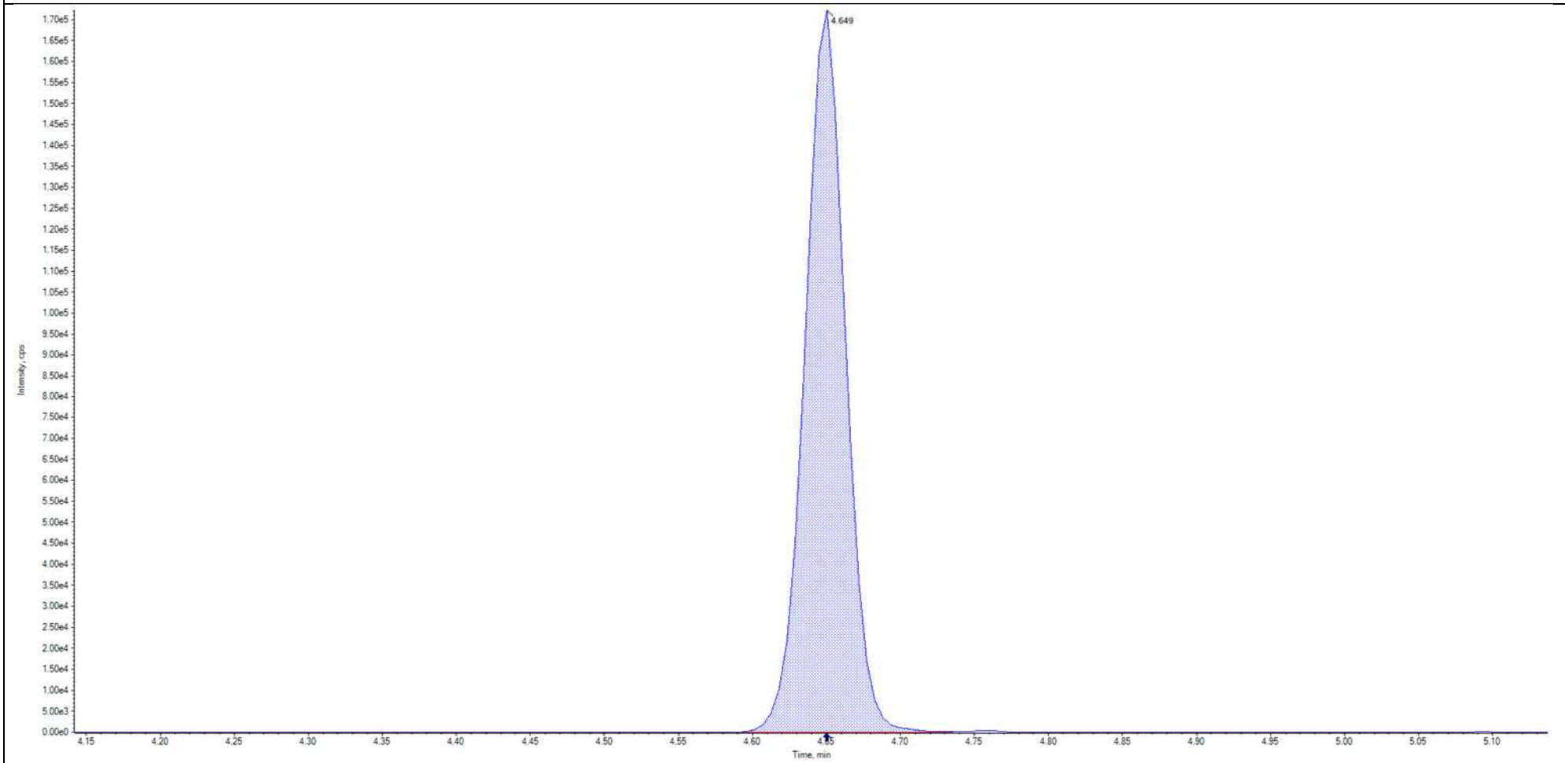
13C6-PFDA
Sample: IA1633STD-.5



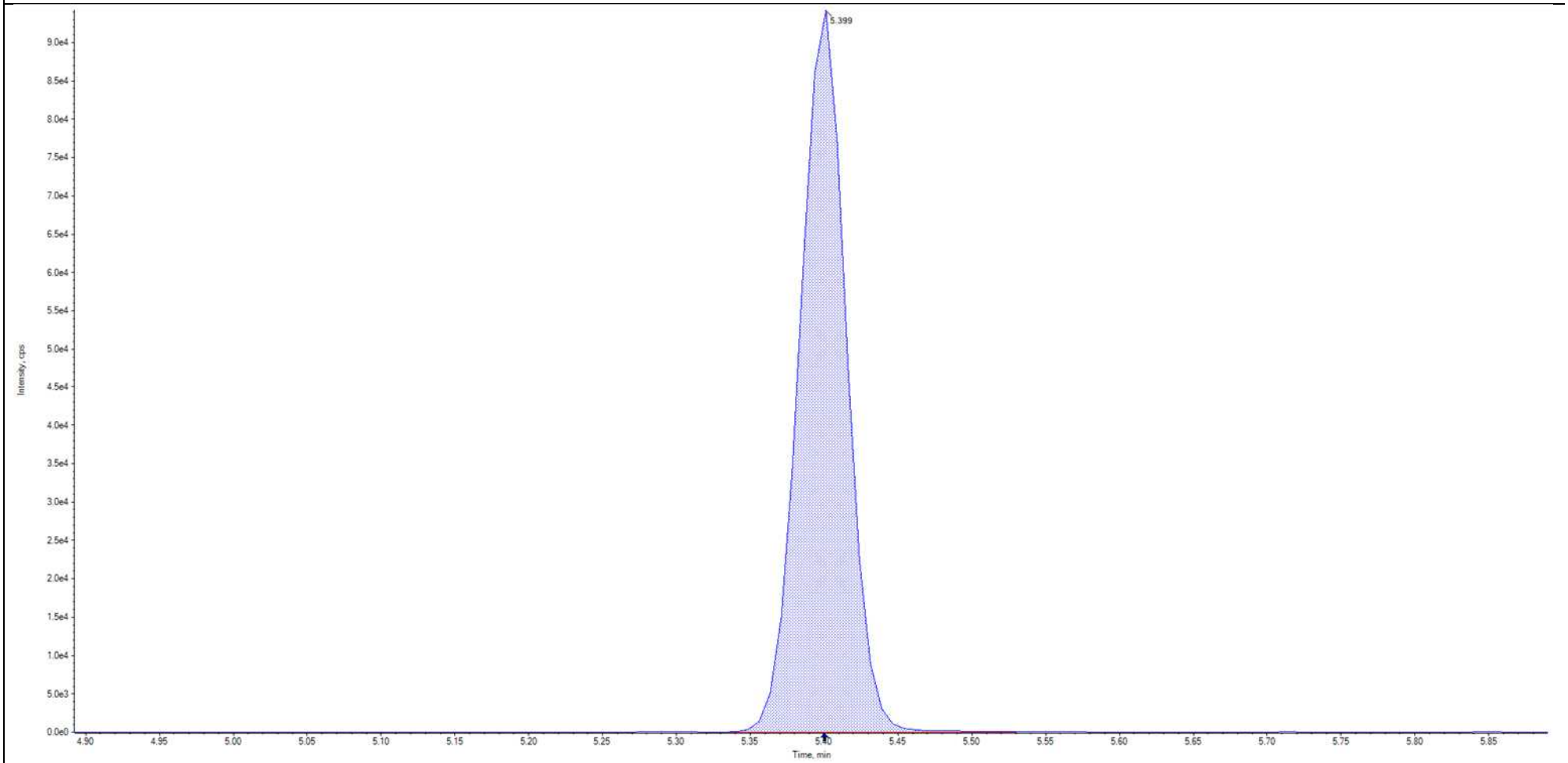
13C7-PFUnA
Sample: IA1633STD-.5



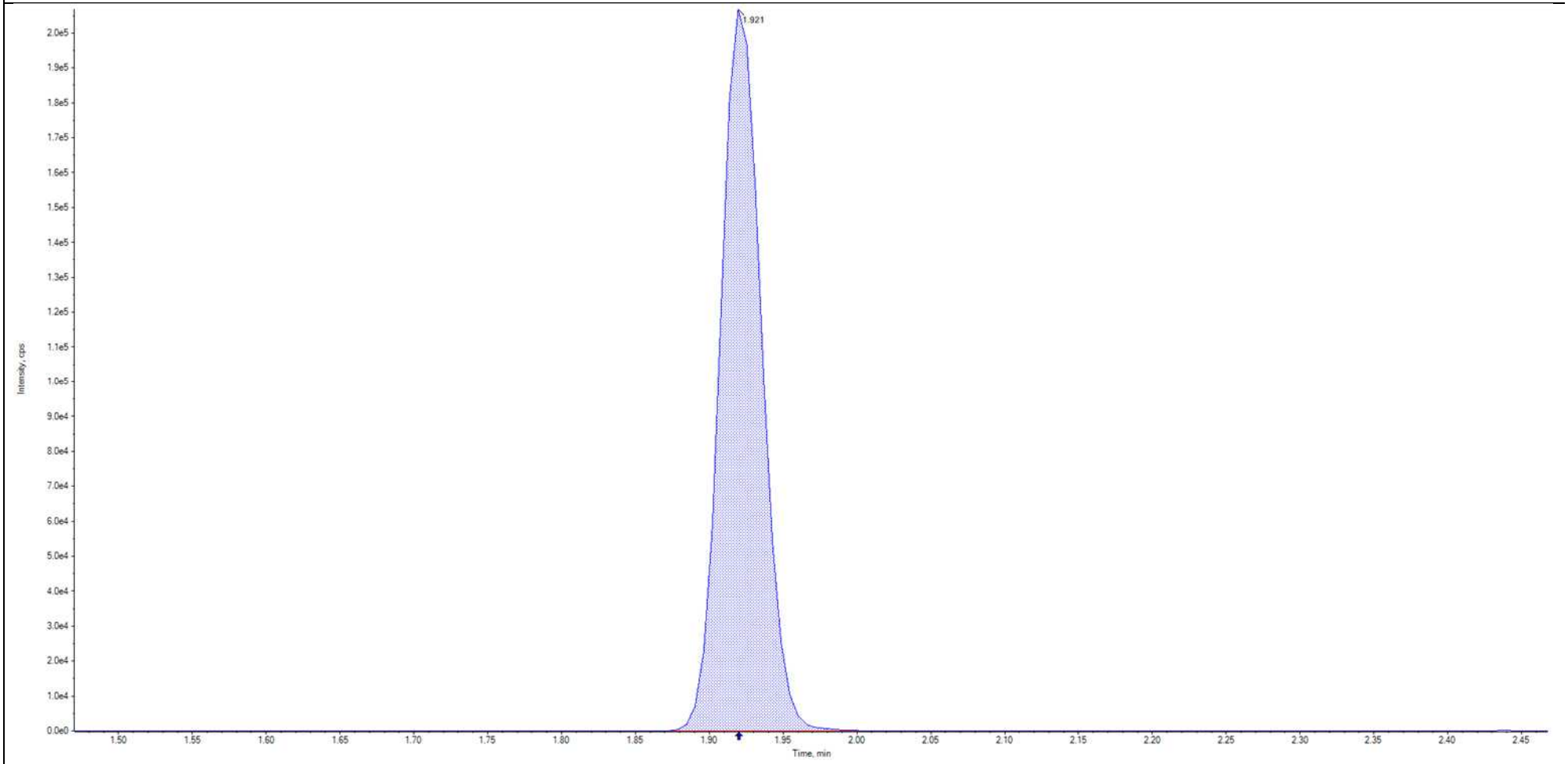
13C2-PFDoA
Sample: IA1633STD-.5



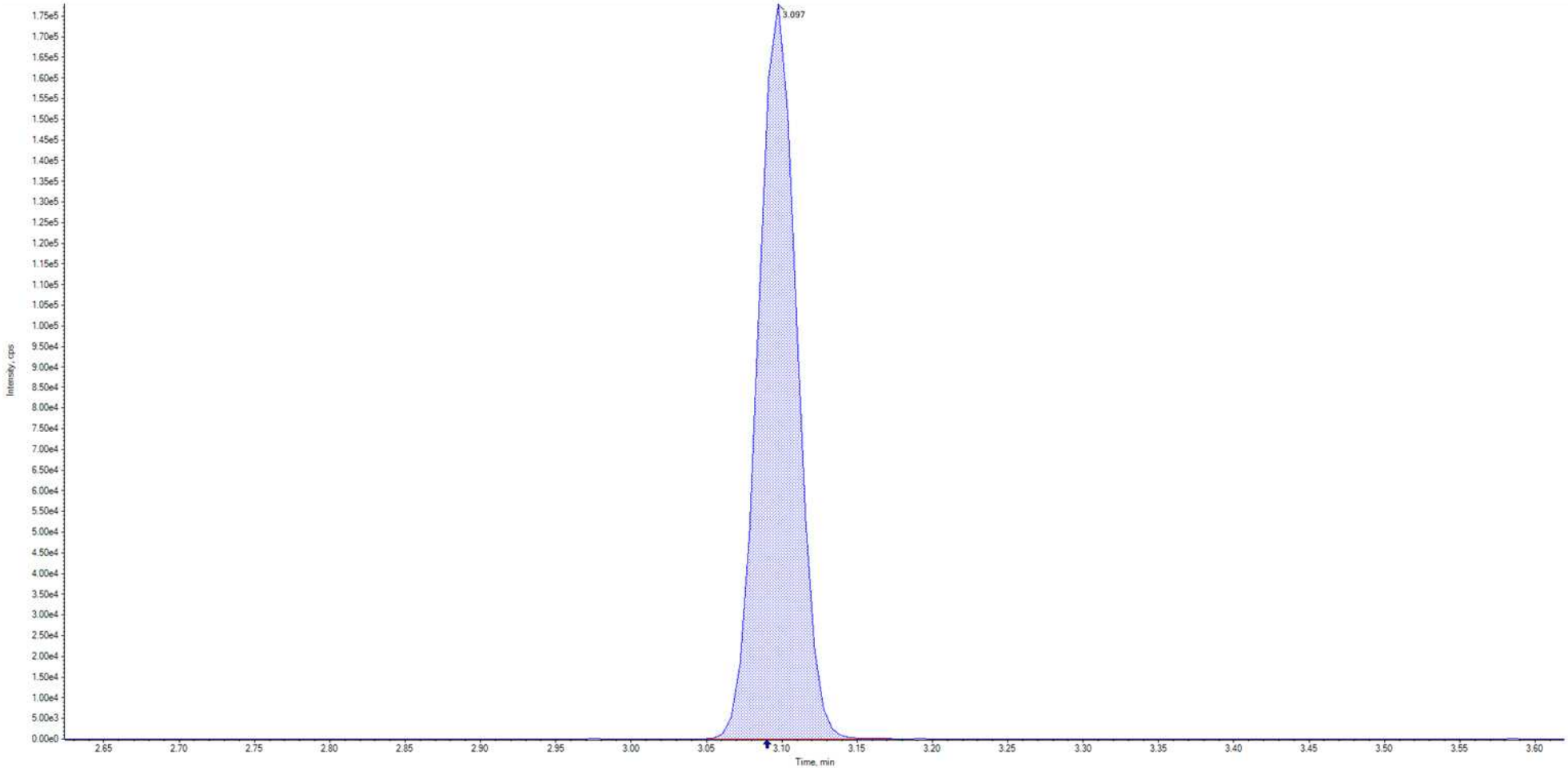
13C2-PFTeDA
Sample: IA1633STD-.5



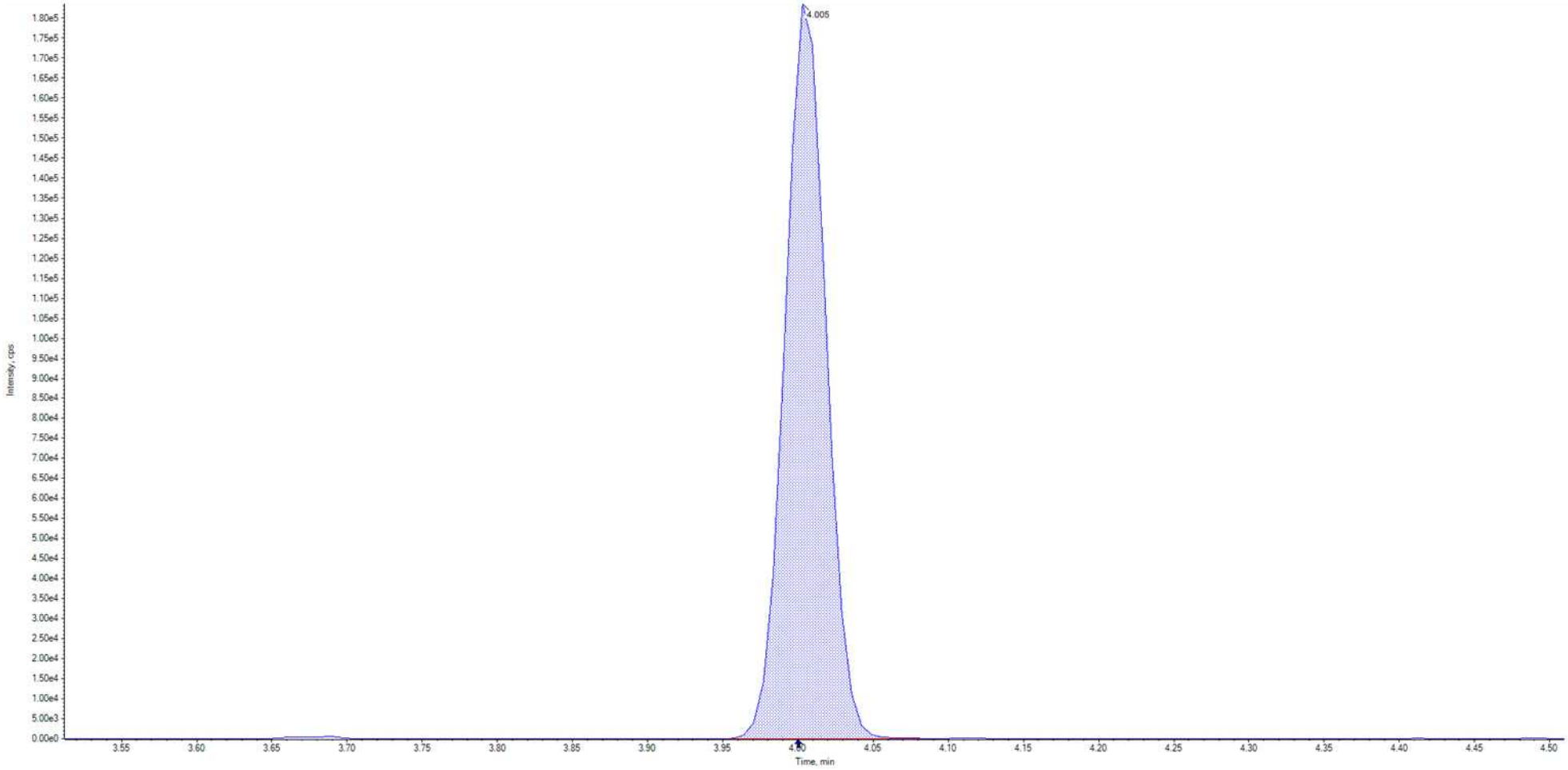
13C3-PFBS
Sample: IA1633STD-.5



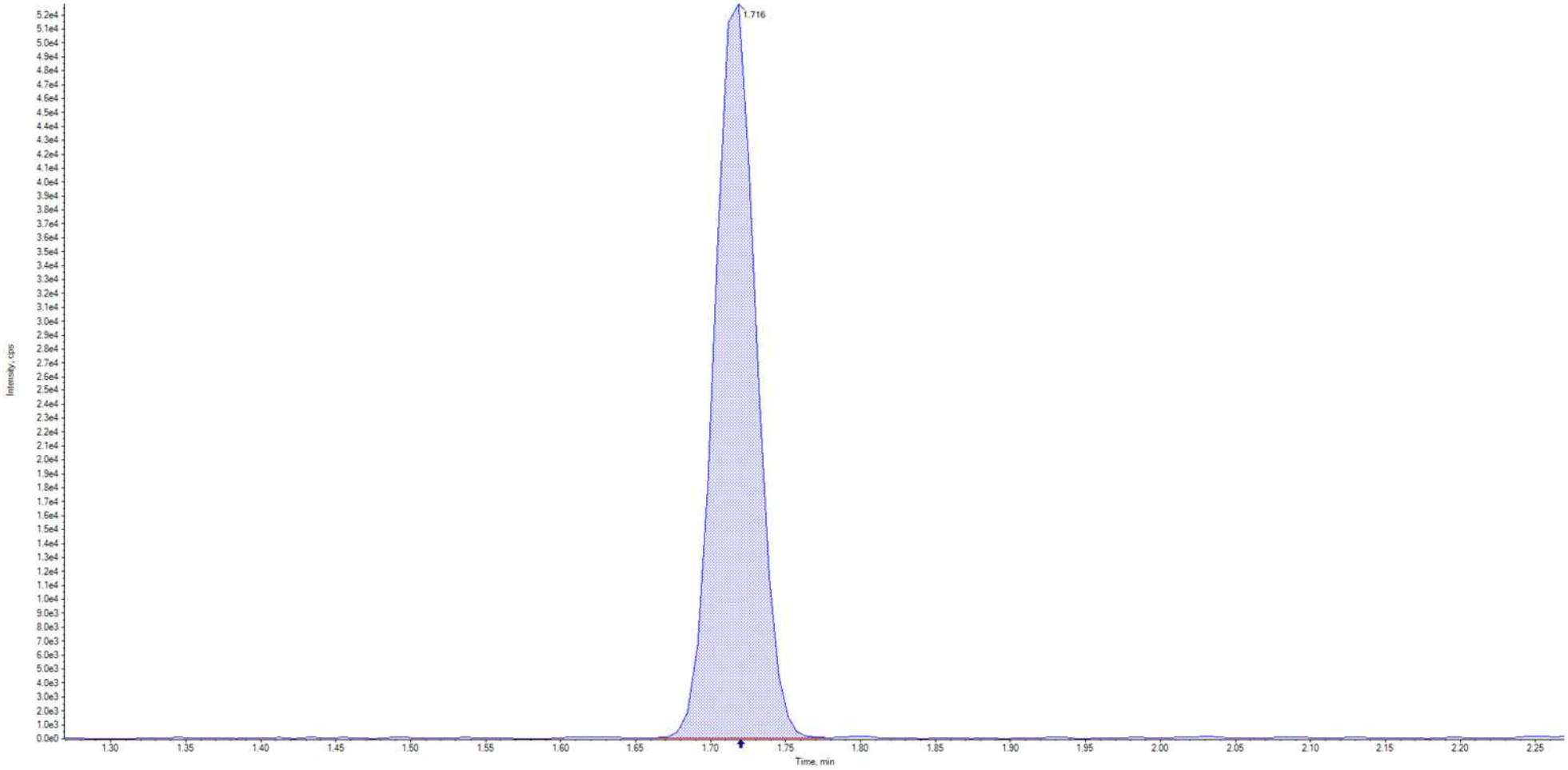
13C3-PFHxS
Sample: IA1633STD-.5



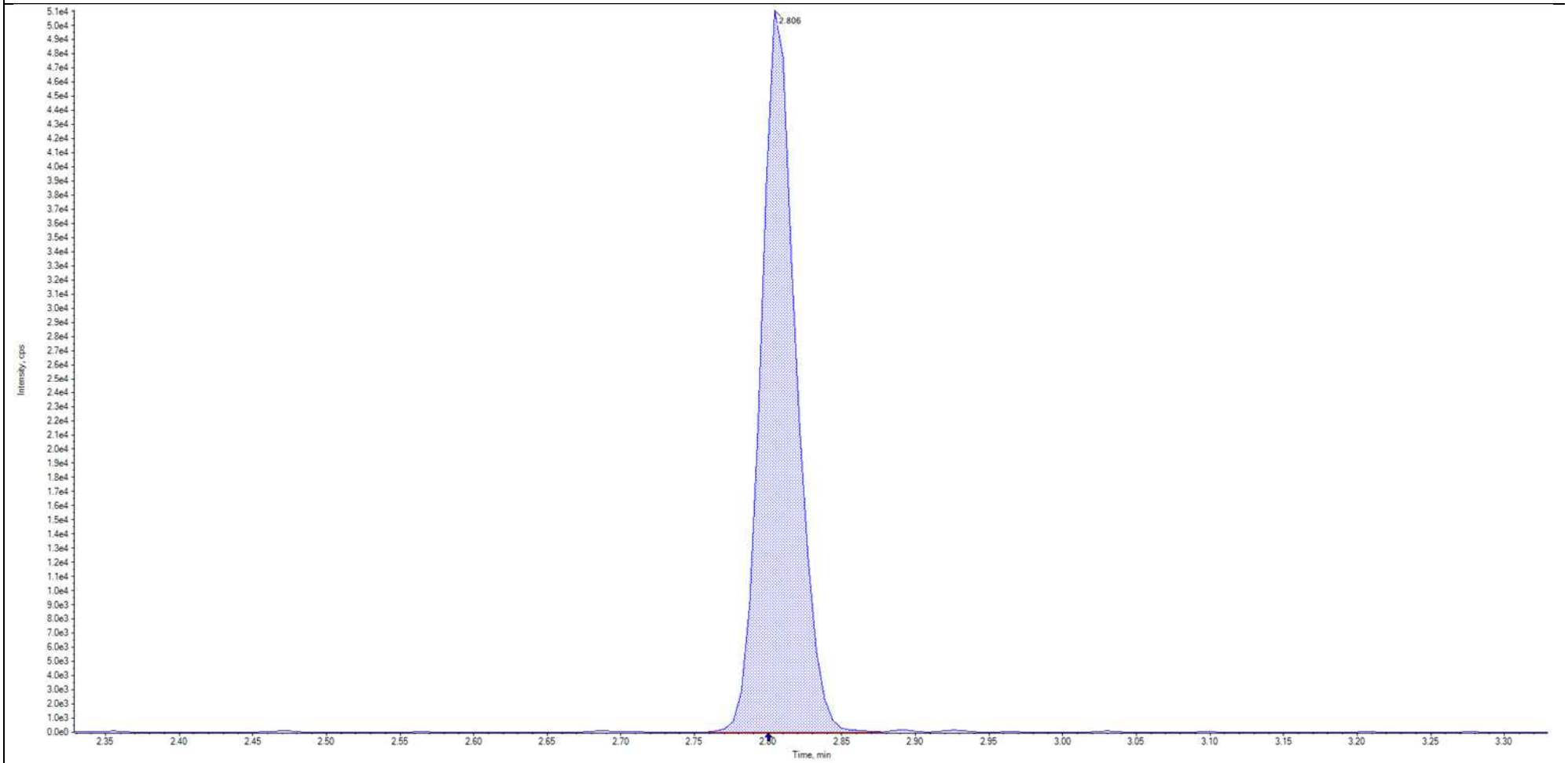
13C8-PFOS
Sample: IA1633STD-.5



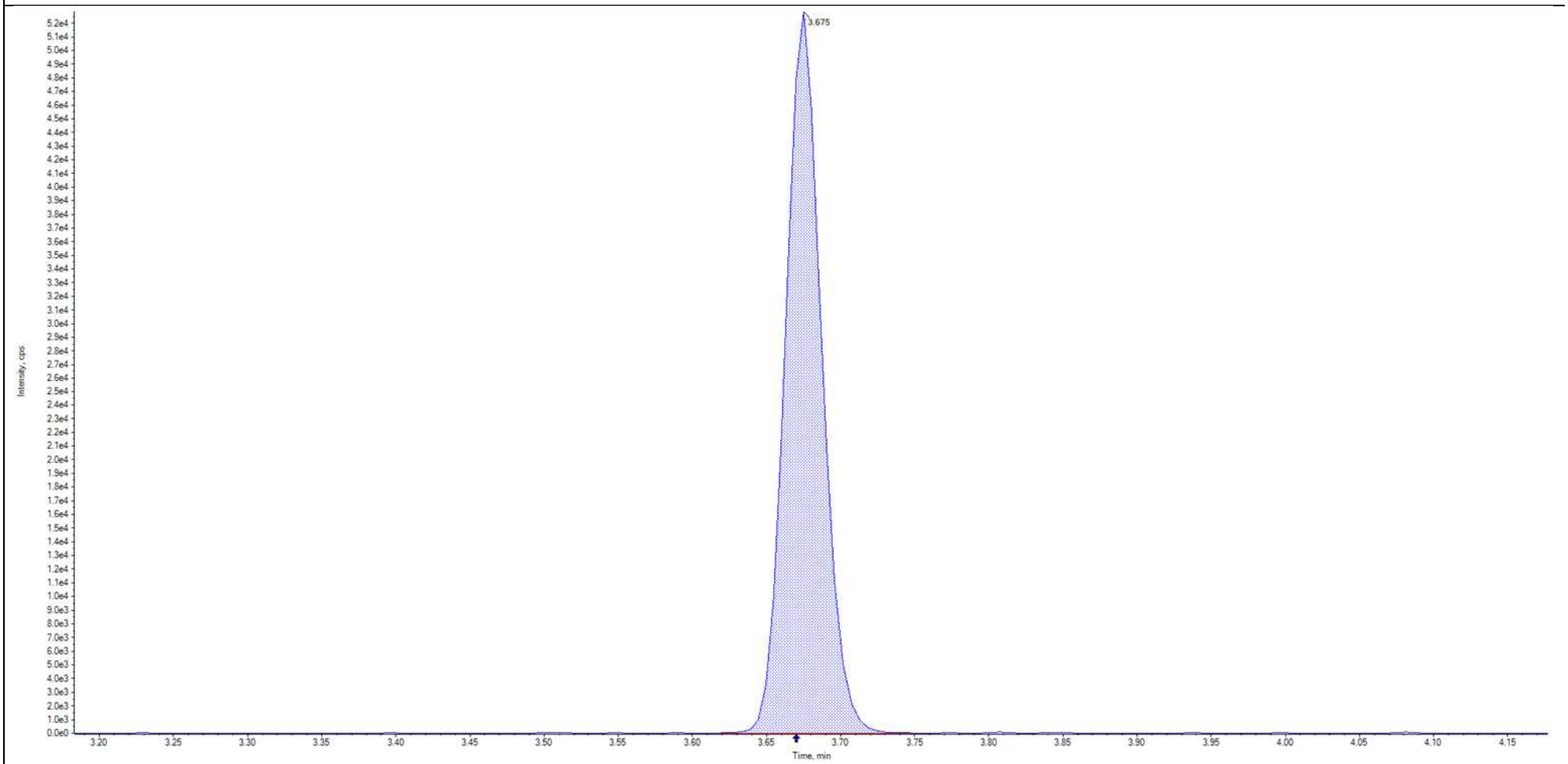
13C2-4:2FTS
Sample: IA1633STD-.5



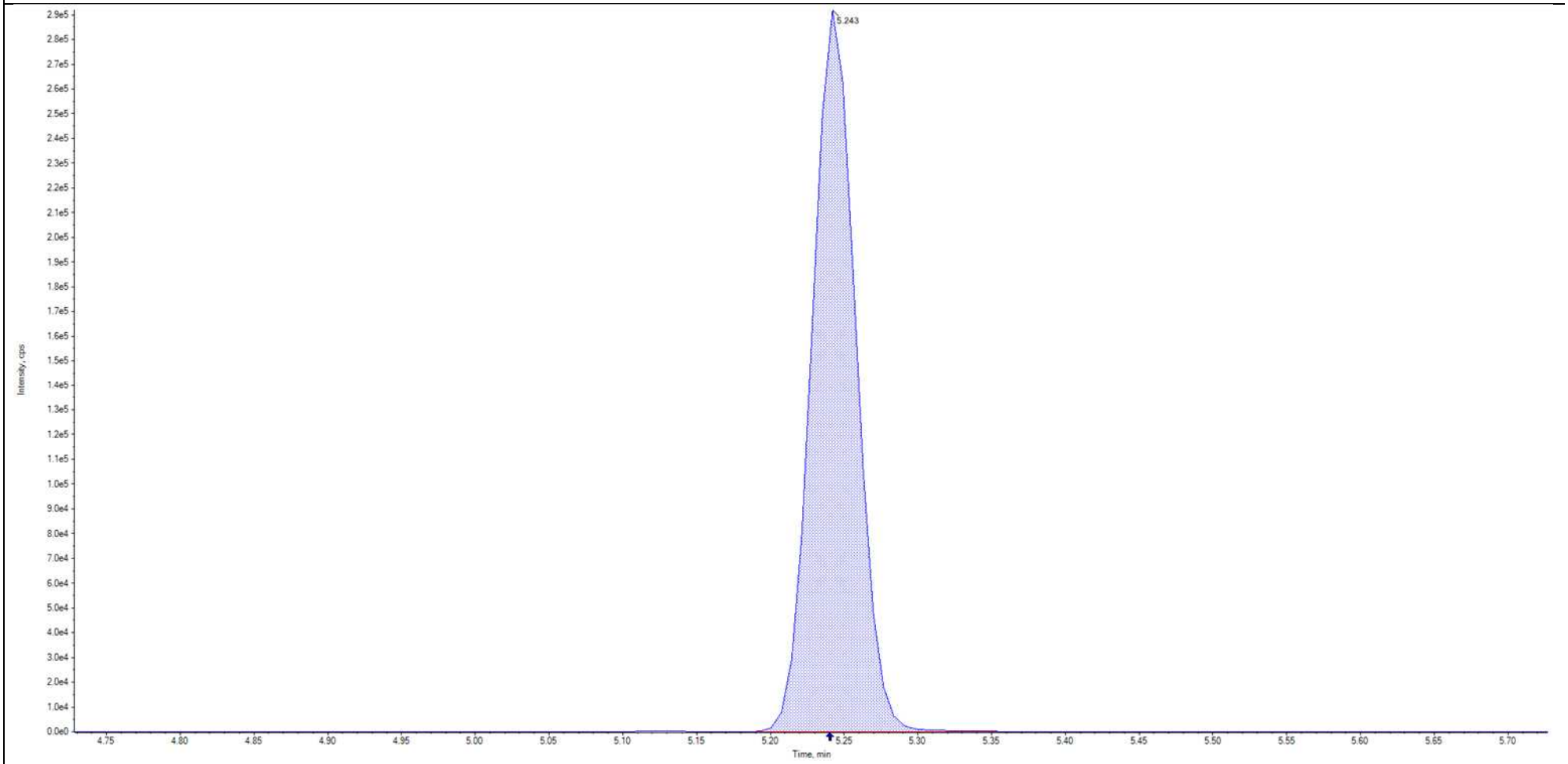
13C2-6:2FTS
Sample: IA1633STD-.5



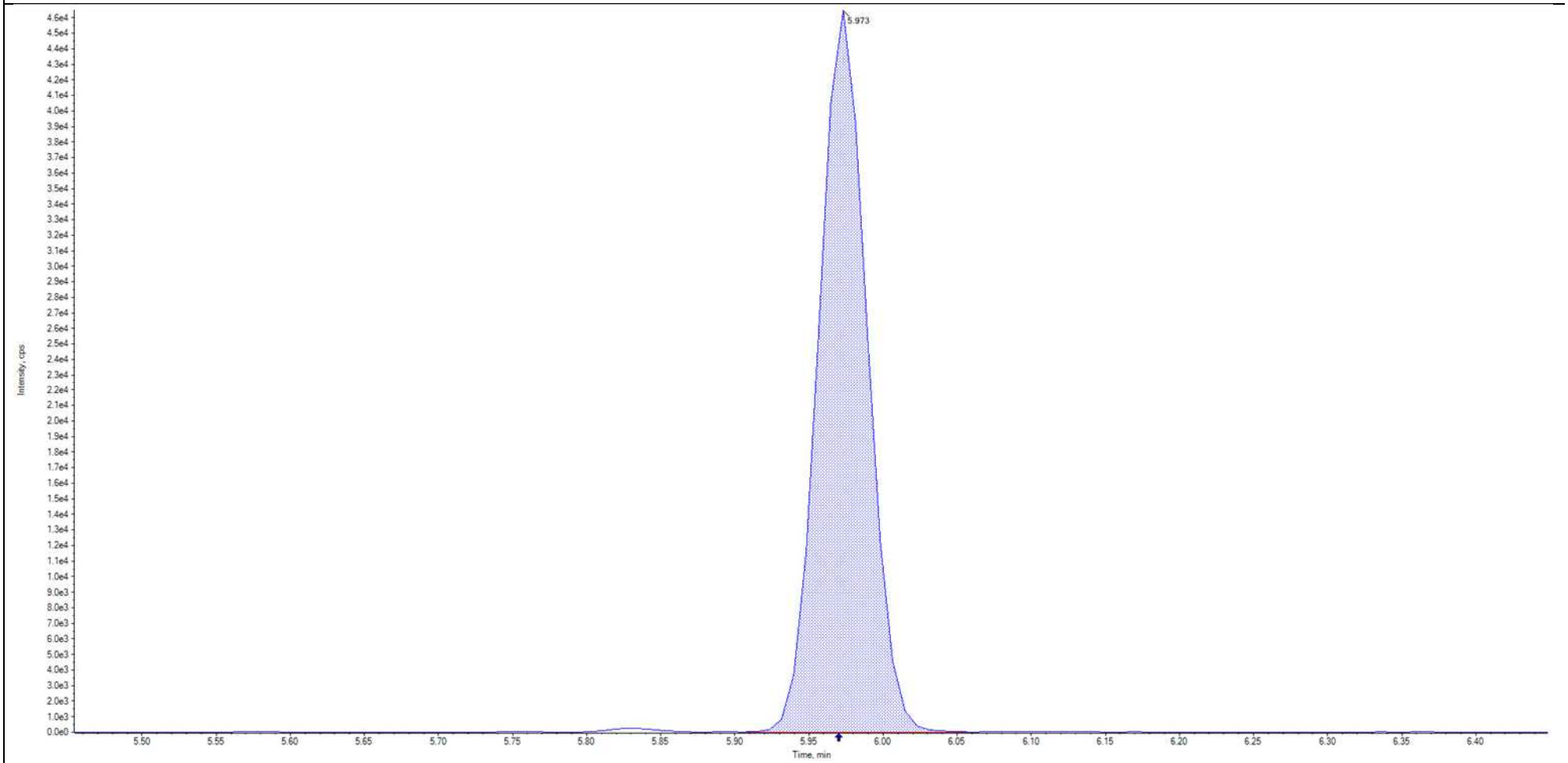
13C2-8:2FTS
Sample: IA1633STD-.5



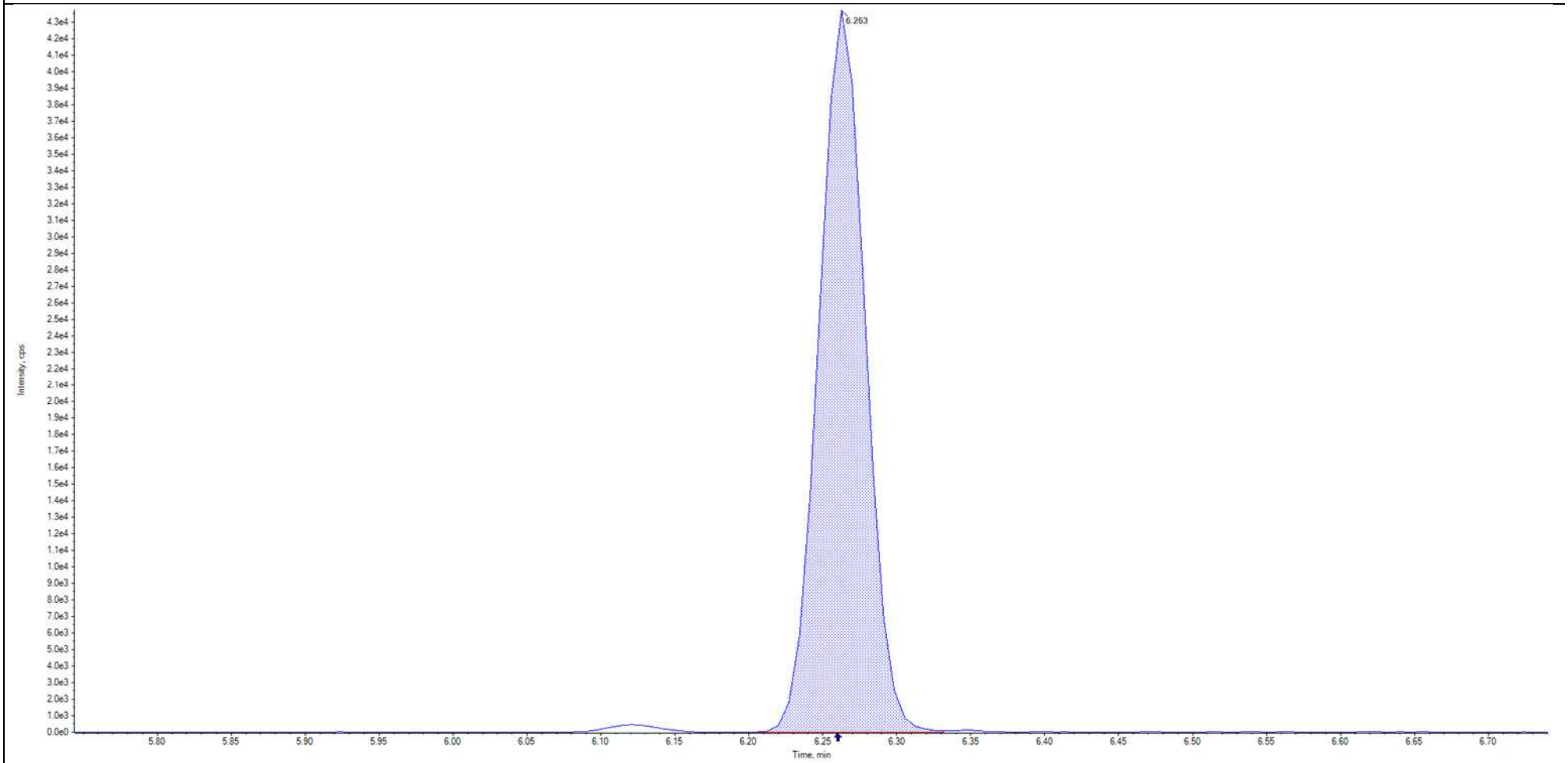
13C8-PFOSA
Sample: IA1633STD-.5



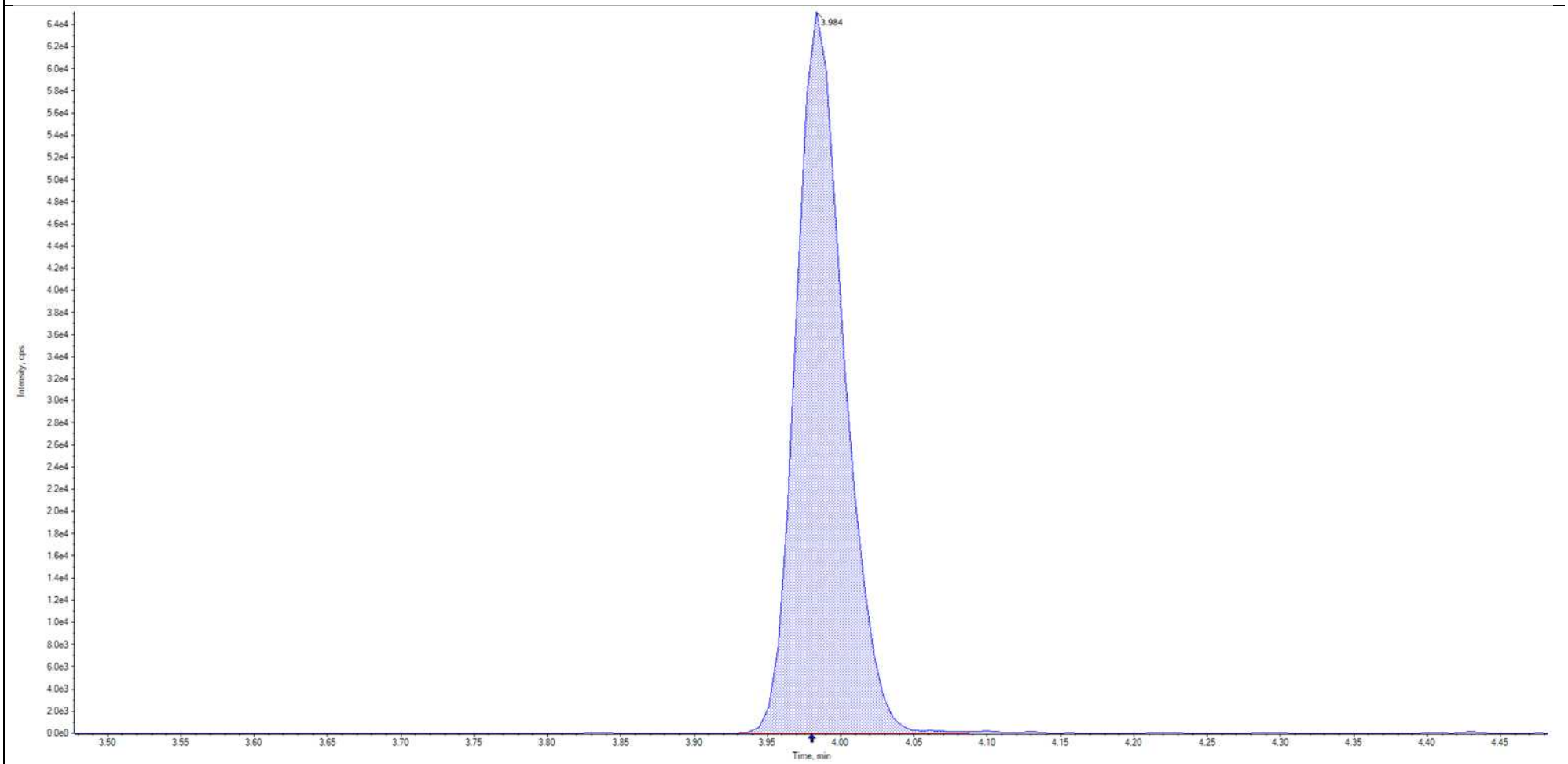
d3-NMeFOSA
Sample: IA1633STD-.5



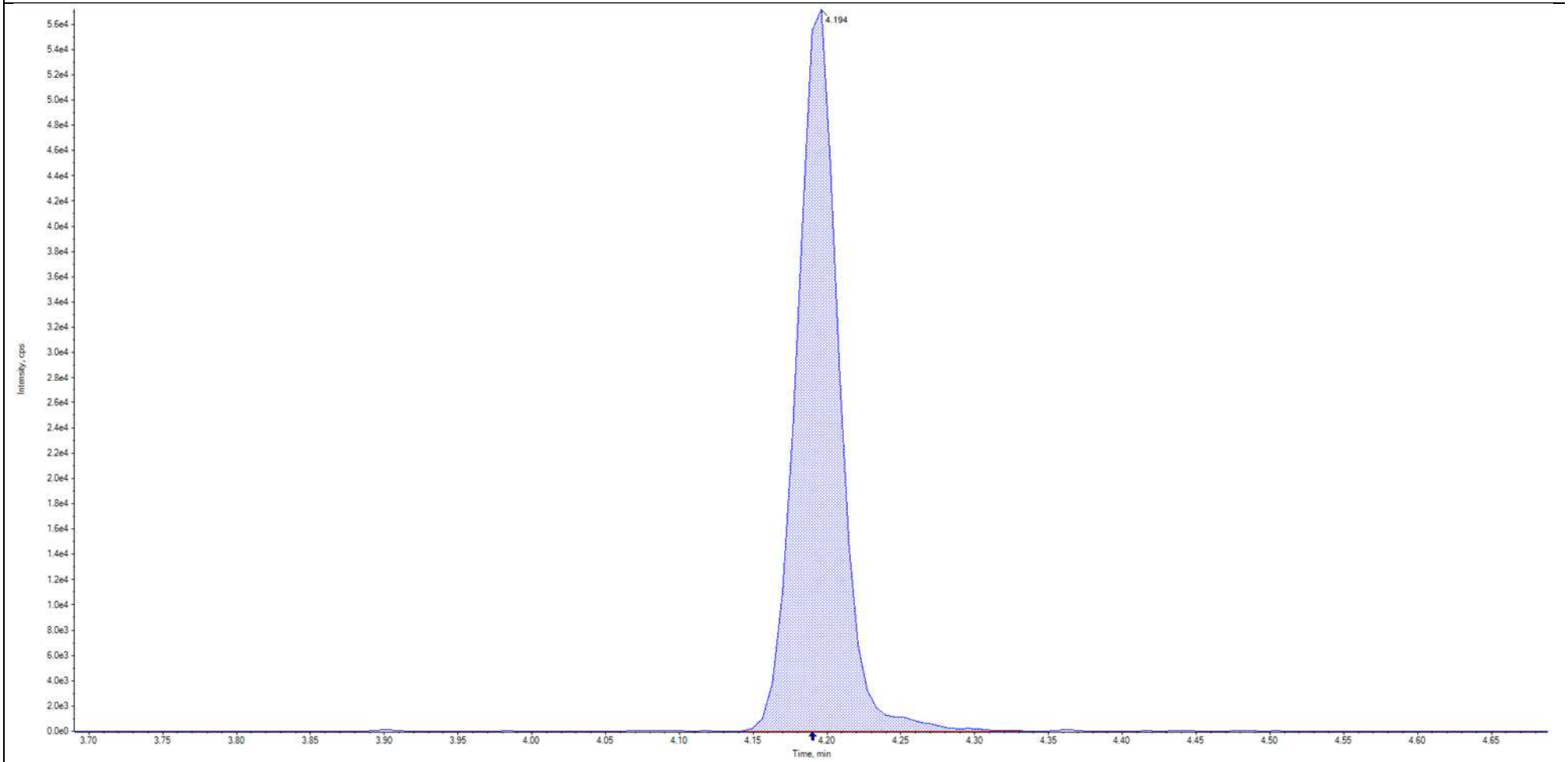
d5-NEtFOSA
Sample: IA1633STD-.5



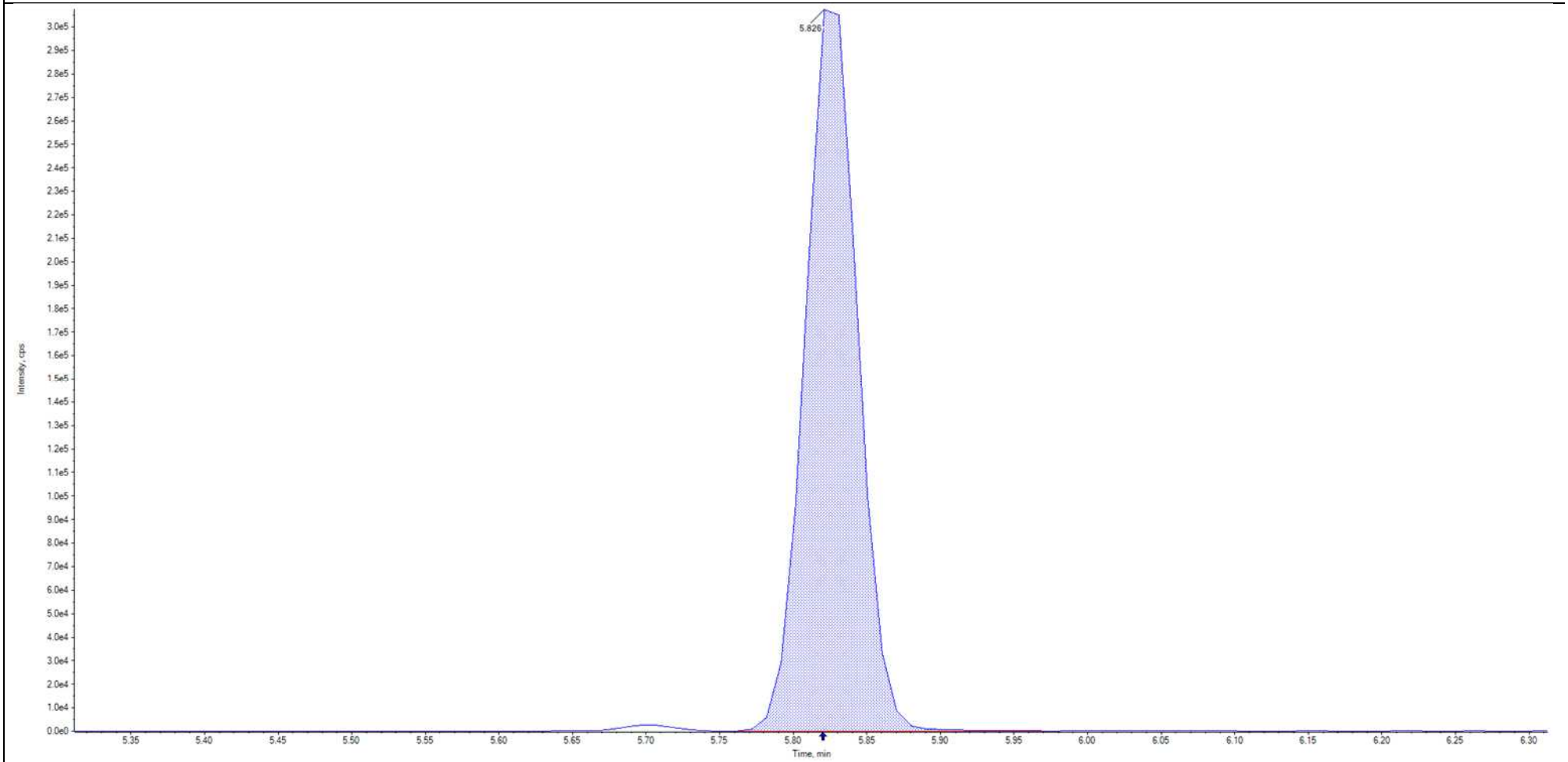
d3-NMeFOSAA
Sample: IA1633STD-.5



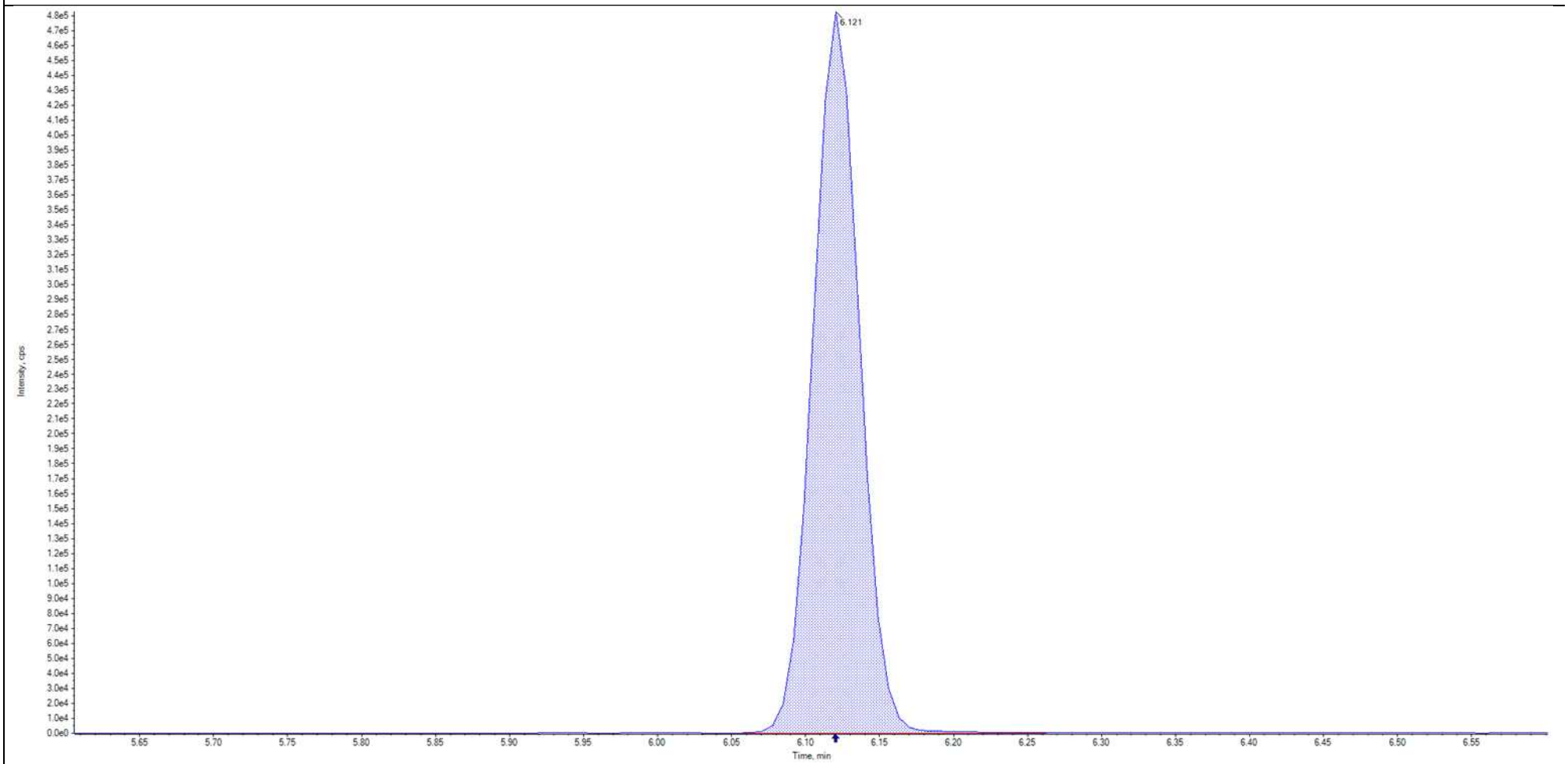
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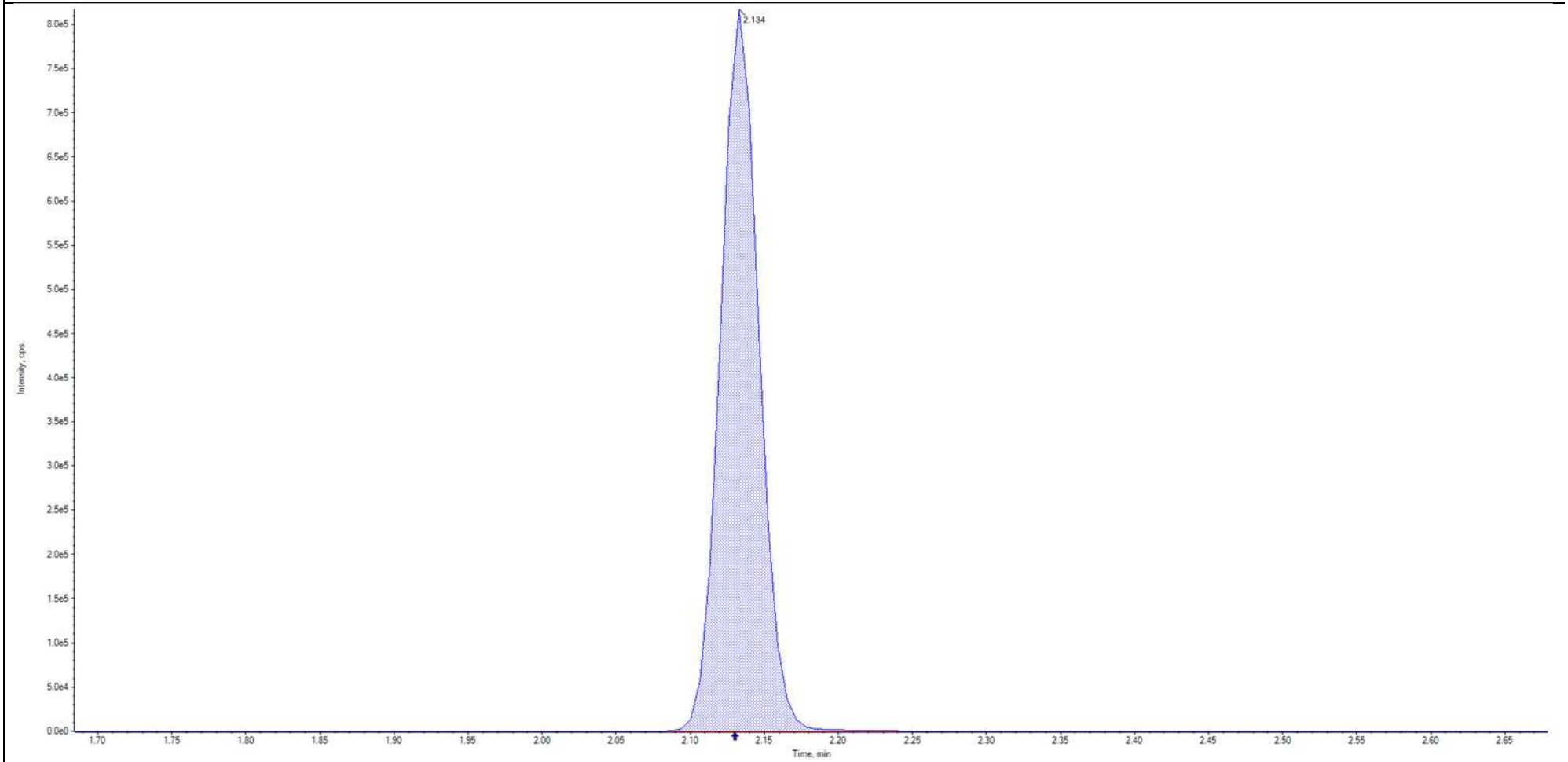
d7-NMeFOSE
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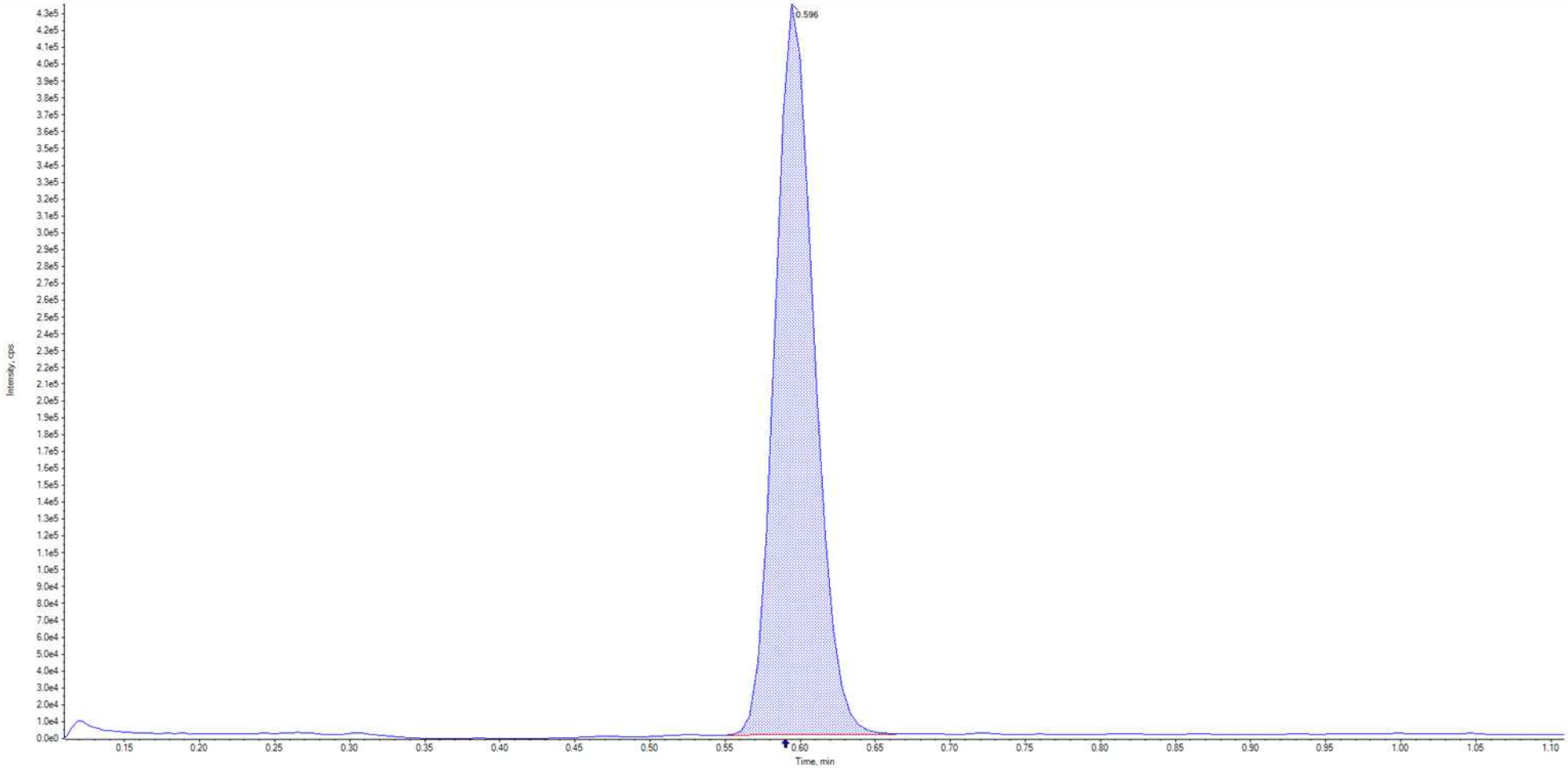
d9-NEtFOSE
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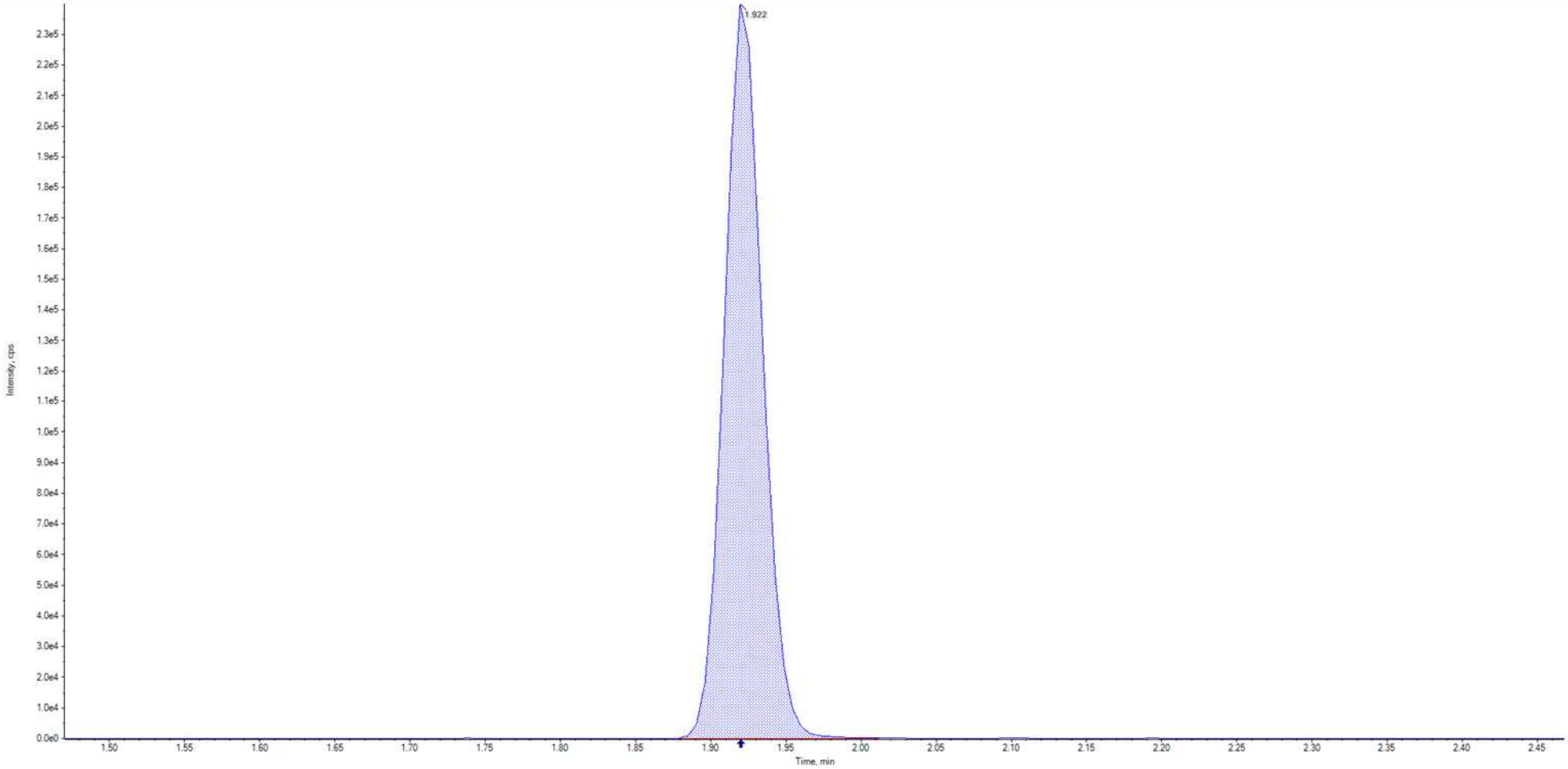
13C3-HFPO-DA
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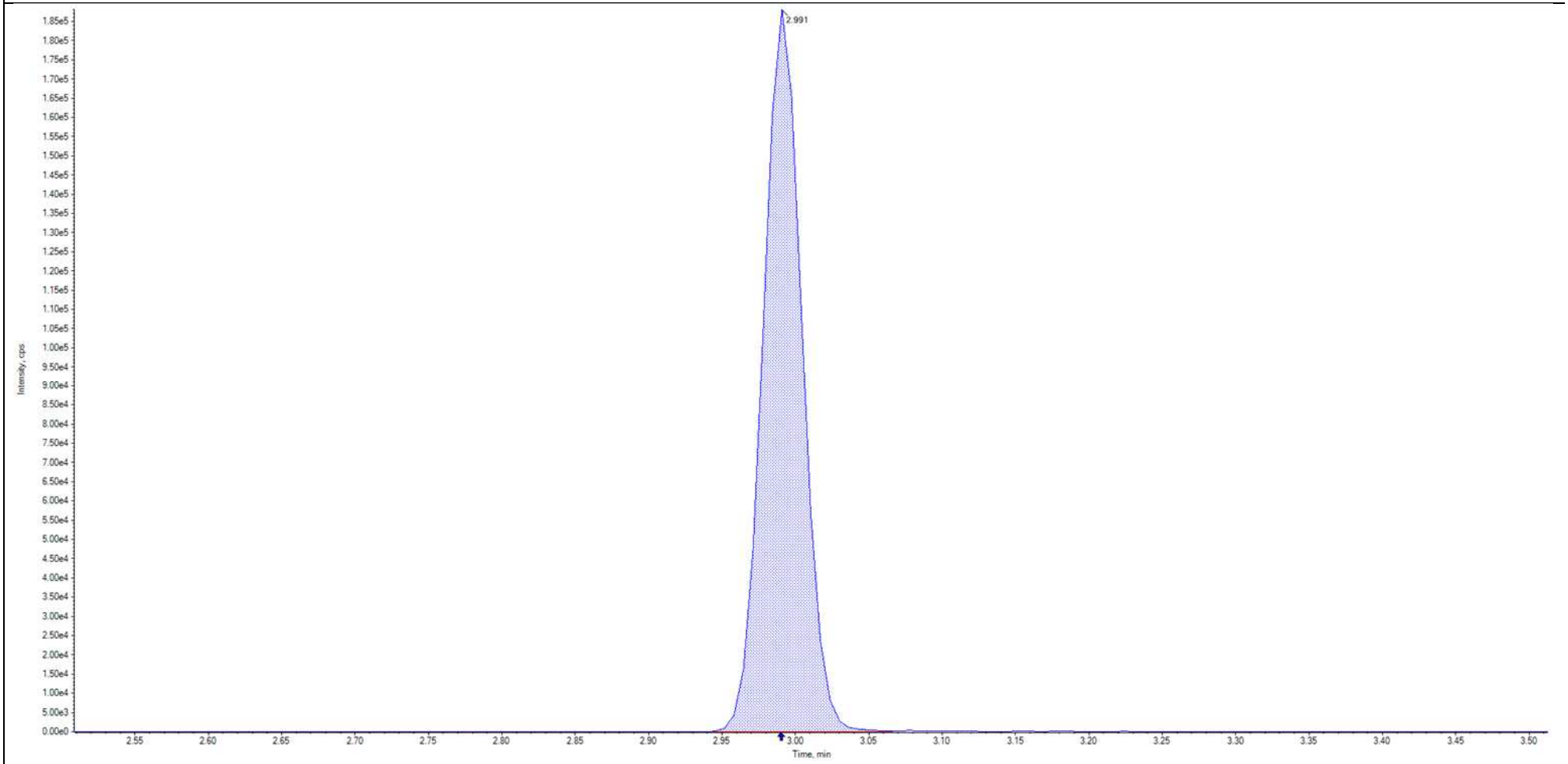
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13C2-PFHxA
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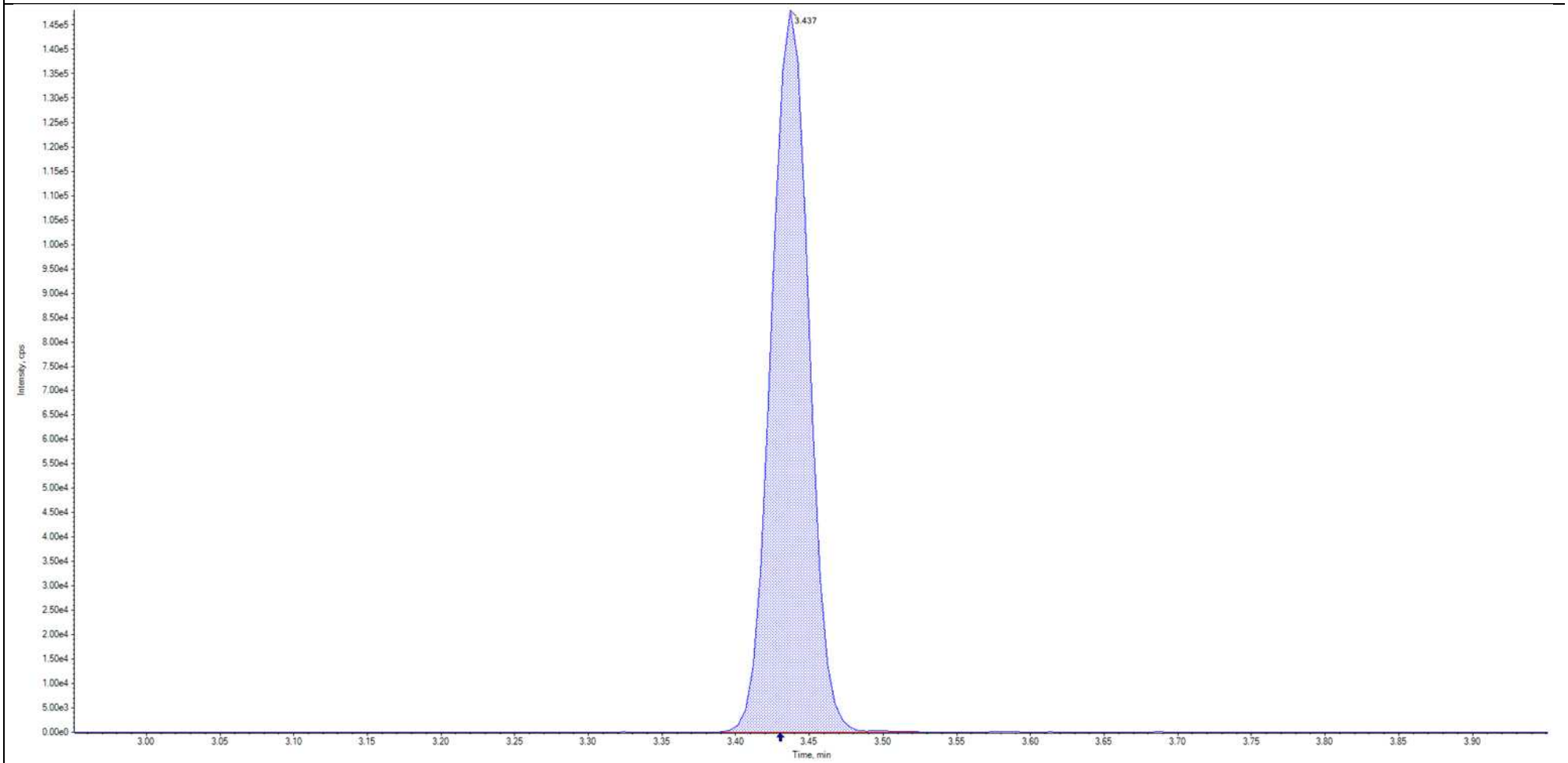


13C4-PFOA
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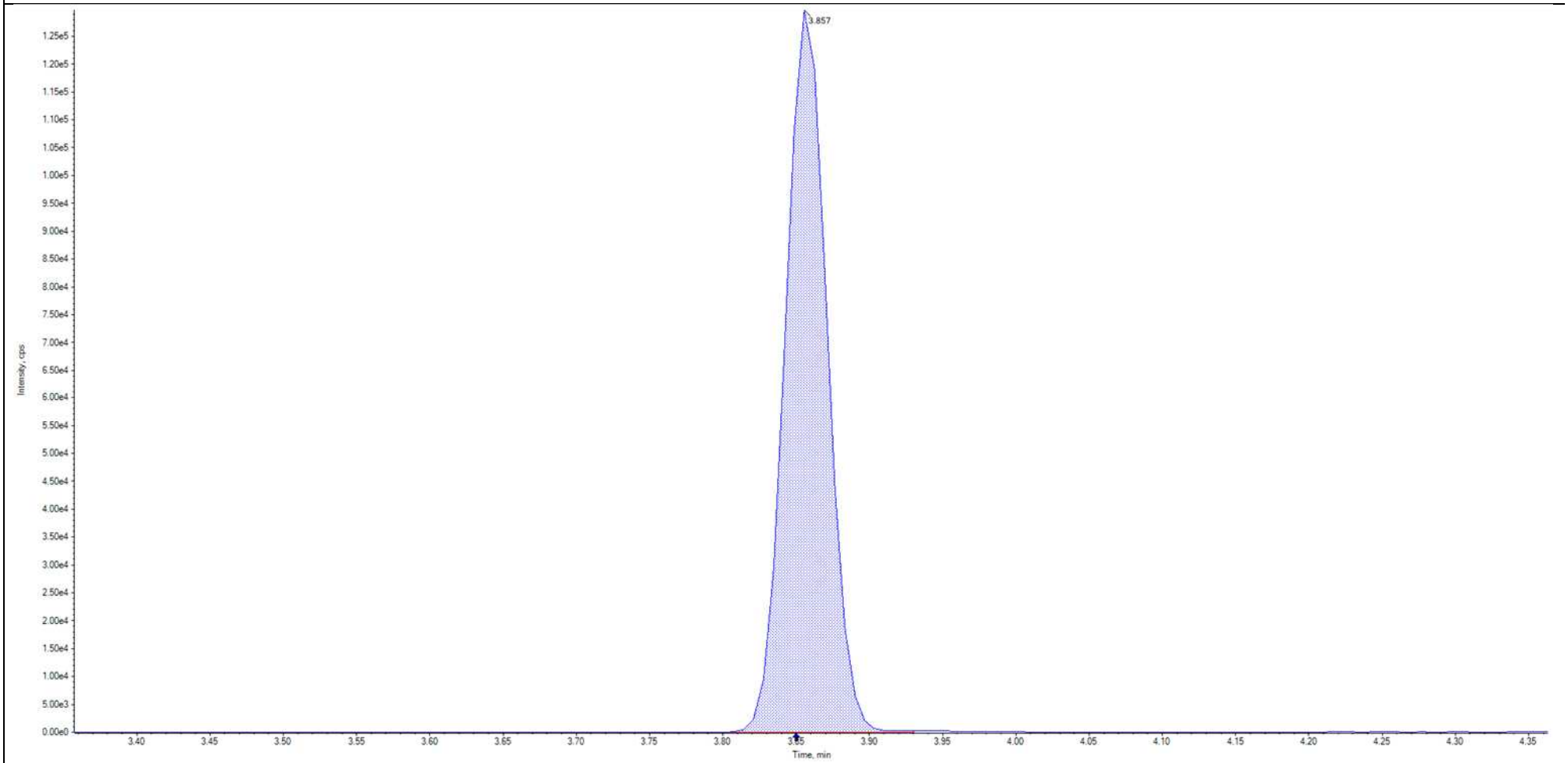


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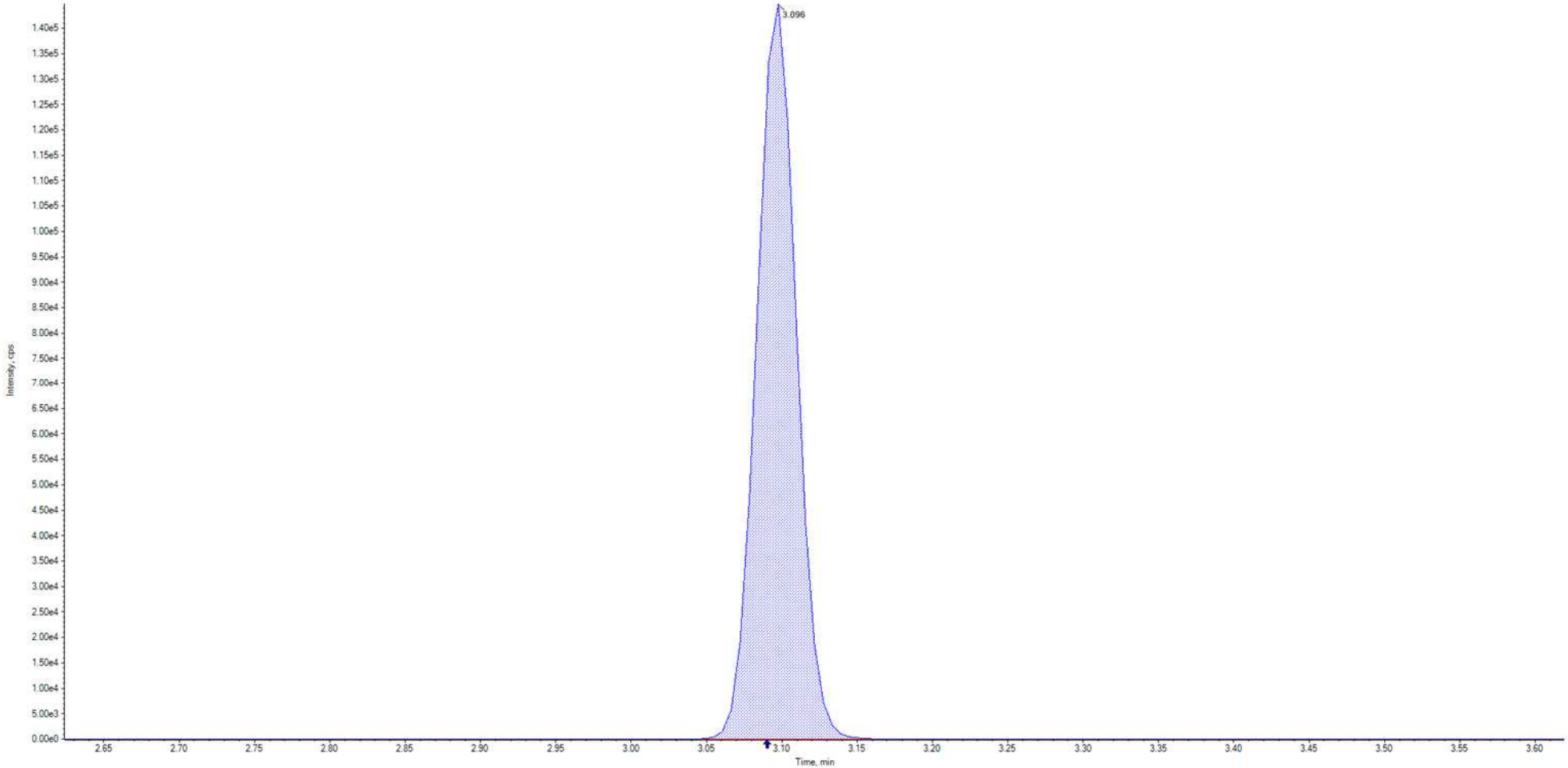
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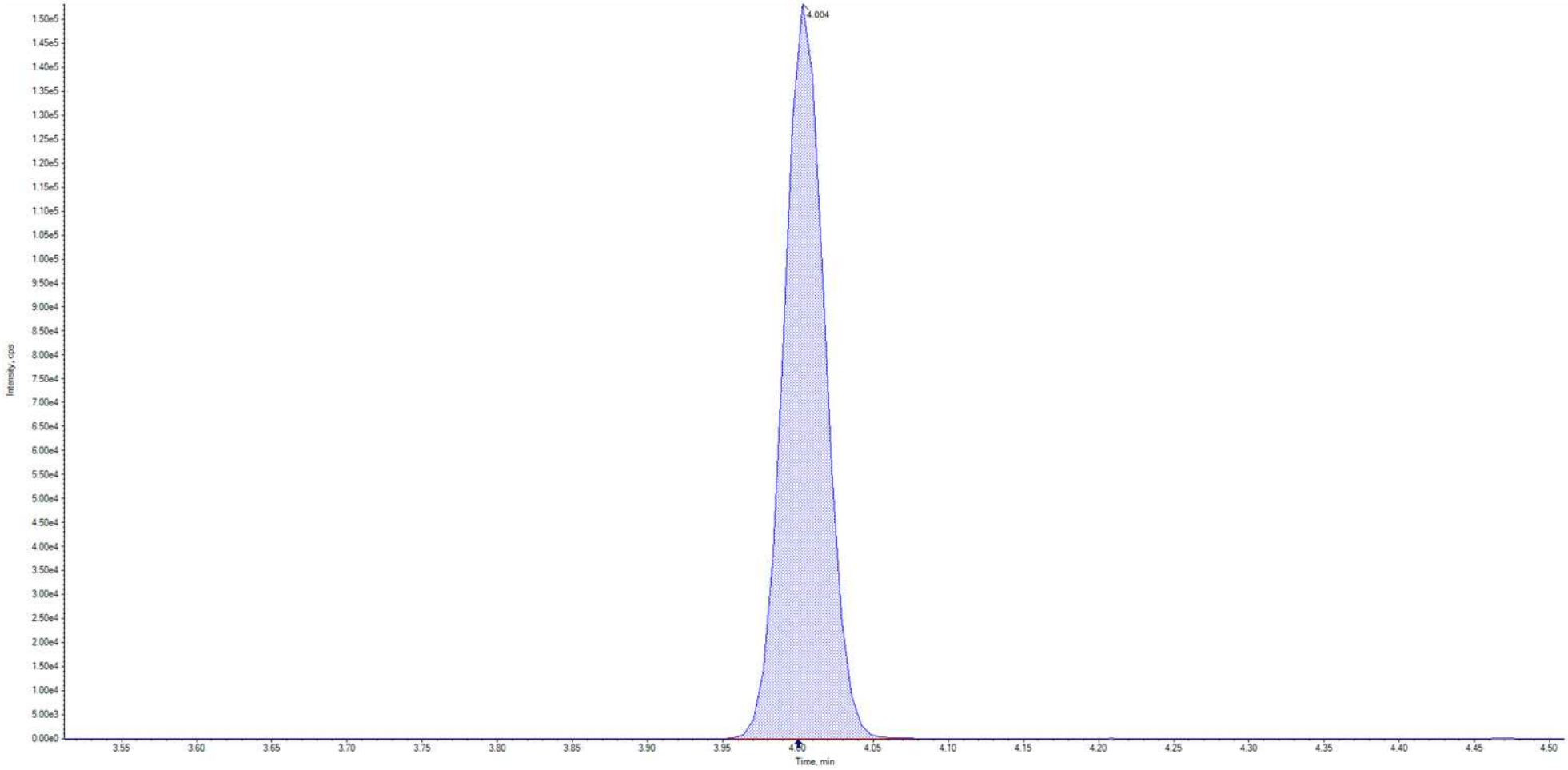
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18O2-PFHxS
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13C4-PFOS
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User: LCMS09:JW

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.59	213.0 / 169.0	1665038		10.744	N/A	N/A	N/A	107.4
2	PFPeA	2706-90-3	1.17	263.0 / 219.0	749202		5.210	0.007	N/A	N/A	104.2
3	PFPeA_2	2706-90-3	1.17	263.0 / 68.9	5251		5.206	0.007	N/A	N/A	104.1
4	PFHxA	307-24-4	1.92	313.0 / 269.0	452175		2.612	0.084	0.081	Pass	104.5
5	PFHxA_2	307-24-4	1.92	313.0 / 119.0	37787		2.567	0.084	0.081	Pass	102.7
6	PFHpA	375-85-9	2.50	363.1 / 319.0	510666		2.765	0.398	0.373	Pass	110.6
7	PFHpA_2	375-85-9	2.49	363.1 / 169.0	203468		2.790	0.398	0.373	Pass	111.6

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	2.99	413.1 / 369.1	510178	M5	2.525	0.420	0.424	Pass	101.0
9	PFOA_2	335-67-1	2.99	413.1 / 169.0	214088	M5	2.504	0.420	0.424	Pass	100.2
10	PFNA	375-95-1	3.43	462.8 / 418.9	351968	M5	2.592	0.492	0.493	Pass	103.7
11	PFNA_2	375-95-1	3.43	462.8 / 219.0	173187	M5	2.620	0.492	0.493	Pass	104.8
12	PFDA	335-76-2	3.85	513.1 / 469.1	506127		2.533	0.191	0.188	Pass	101.3
13	PFDA_2	335-76-2	3.85	513.1 / 219.0	96717		2.629	0.191	0.188	Pass	105.1
14	PFUnA	2058-94-8	4.26	563.1 / 519.1	586262		2.782	0.141	0.146	Pass	111.3
15	PFUnA_2	2058-94-8	4.26	563.1 / 269.0	82427		2.721	0.141	0.146	Pass	108.9
16	PFDoA	307-55-1	4.65	613.1 / 569.1	635053		2.736	0.130	0.142	Pass	109.4
17	PFDoA_2	307-55-1	4.65	613.1 / 319.0	82841		2.589	0.130	0.142	Pass	103.6
18	PFTrDA	72629-94-8	5.03	663.1 / 619.1	565040		2.771	0.153	0.152	Pass	110.8
19	PFTrDA_2	72629-94-8	5.03	663.1 / 169.0	86456		2.760	0.153	0.152	Pass	110.4
20	PFTeDA	376-06-7	5.40	713.1 / 669.1	482581		2.717	0.158	0.154	Pass	108.7
21	PFTeDA_2	376-06-7	5.39	713.1 / 169.0	76085		2.624	0.158	0.154	Pass	104.9
22	PFBS	375-73-5	1.92	299.1 / 80.1	375073		2.439	0.391	0.374	Pass	109.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.92	299.1 / 99.1	146504		2.732	0.391	0.374	Pass	116.3
24	PFPeS	2706-91-4	2.56	349.1 / 80.1	376998		2.583	0.312	0.314	Pass	109.9
25	PFPeS_2	2706-91-4	2.56	349.1 / 99.1	117496		2.564	0.312	0.314	Pass	109.1
26	PFHxS	355-46-4	3.09	399.1 / 80.1	305154	M5	2.290	0.318	0.306	Pass	100.4
27	PFHxS_2	355-46-4	3.09	399.1 / 99.1	96925	M5	2.512	0.318	0.306	Pass	110.2
28	PFHpS	375-92-8	3.56	449.1 / 80.1	319049		2.426	0.311	0.316	Pass	101.9
29	PFHpS_2	375-92-8	3.56	449.1 / 99.1	99272		2.467	0.311	0.316	Pass	103.7
30	PFOS	1763-23-1	4.00	499.1 / 80.1	364503	M5	2.279	0.263	0.244	Pass	98.2
31	PFOS_2	1763-23-1	4.00	499.1 / 99.1	95872	M5	2.385	0.263	0.244	Pass	102.8
32	PFNS	68259-12-1	4.41	549.1 / 80.1	279311		2.565	0.301	0.294	Pass	106.9
33	PFNS_2	68259-12-1	4.41	549.1 / 99.1	84114		2.702	0.301	0.294	Pass	112.6
34	PFDS	335-77-3	4.81	599.1 / 80.1	281780		2.633	0.273	0.290	Pass	109.3
35	PFDS_2	335-77-3	4.81	599.1 / 99.1	76924		2.546	0.273	0.290	Pass	105.6
36	PFDoS	79780-39-5	5.55	699.2 / 80.1	250510		2.570	0.247	0.256	Pass	106.2
37	PFDoS_2	79780-39-5	5.55	699.2 / 99.1	61998		2.467	0.247	0.256	Pass	102.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.71	327.1 / 307.1	331902		10.404	0.631	0.650	Pass	111.0
39	4:2FTS_2	757124-72-4	1.71	327.1 / 81.1	209438		10.172	0.631	0.650	Pass	108.6
40	6:2FTS	27619-97-2	2.80	427.2 / 407.2	303189		11.105	0.615	0.620	Pass	116.8
41	6:2FTS_2	27619-97-2	2.80	427.2 / 81.1	186372		10.650	0.615	0.620	Pass	112.0
42	8:2FTS	39108-34-4	3.67	527.2 / 507.2	245593		11.579	0.669	0.676	Pass	120.6
43	8:2FTS_2	39108-34-4	3.67	527.2 / 81.1	164401		11.260	0.669	0.676	Pass	117.3
44	PFOSA	754-91-6	5.24	498.1 / 78.1	453787	M5	2.588	0.024	0.026	Pass	103.5
45	PFOSA_2	754-91-6	5.24	498.1 / 478.0	10916	M5	2.409	0.024	0.026	Pass	96.4
46	NMeFOSA	31506-32-8	5.98	512.2 / 219.0	116243	M5	2.626	1.394	1.377	Pass	105.0
47	NMeFOSA_2	31506-32-8	5.93	512.2 / 169.0	162042	M5	2.634	1.394	1.377	Pass	105.4
48	NEtFOSA	4151-50-2	6.27	526.2 / 219.0	115462		2.699	1.253	1.292	Pass	108.0
49	NEtFOSA_2	4151-50-2	6.23	526.2 / 169.0	144728		2.711	1.253	1.292	Pass	108.5
50	NMeFOSAA	2355-31-9	3.98	570.2 / 419.1	63717	M5	2.644	0.799	0.697	Pass	105.8
51	NMeFOSAA_2	2355-31-9	3.98	570.2 / 483.0	50918	M5	2.941	0.799	0.697	Pass	117.6
52	NEtFOSAA	2991-50-6	4.19	584.2 / 419.1	59240	M5	2.509	0.548	0.557	Pass	100.4

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.19	584.2 / 526.2	32491	M5	2.497	0.548	0.557	Pass	99.9
54	NMeFOSE	24448-09-7	5.84	616.1 / 58.9	1728162	M5	26.082	N/A	N/A	N/A	104.3
55	NEtFOSE	1691-99-2	6.14	630.0 / 58.9	2460257	M5	26.761	N/A	N/A	N/A	107.1
56	HFPO-DA	13252-13-6	2.13	285.0 / 169.0	1572905		10.457	0.538	0.501	Pass	104.6
57	HFPO-DA_2	13252-13-6	2.13	285.0 / 184.9	845739		10.664	0.538	0.501	Pass	106.6
58	ADONA	919005-14-4	2.68	376.9 / 251.0	2939003		10.795	0.645	0.691	Pass	114.2
59	ADONA_2	919005-14-4	2.68	376.9 / 84.8	1896337		10.514	0.645	0.691	Pass	111.3
60	9Cl-PF3ONS	756426-58-1	4.28	530.8 / 351.1	2946967		10.811	0.333	0.332	Pass	115.9
61	9Cl-PF3ONS_2	756426-58-1	4.28	532.8 / 353.0	981537		10.833	0.333	0.332	Pass	116.1
62	11Cl-PF3OUdS	763051-92-9	5.07	630.9 / 451.0	2566254		11.133	0.313	0.322	Pass	118.1
63	11Cl-PF3OUdS_2	763051-92-9	5.07	632.9 / 452.9	802472		10.845	0.313	0.322	Pass	115.0
64	3:3FTCA	356-02-5	1.56	241.1 / 177.1	143001		12.878	1.037	1.010	Pass	103.0
65	3:3FTCA_2	356-02-5	1.56	241.1 / 117.0	148294		12.299	1.037	1.010	Pass	98.4
66	5:3FTCA	914637-49-3	3.03	341.1 / 237.1	3069698		70.916	1.003	1.017	Pass	113.5
67	5:3FTCA_2	914637-49-3	3.03	341.1 / 217.0	3078799		70.592	1.003	1.017	Pass	113.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.06	441.1 / 316.9	2437617		66.149	1.420	1.343	Pass	105.8
69	7:3FTCA_2	812-70-4	4.06	441.1 / 337.1	3461790		71.065	1.420	1.343	Pass	113.7
70	PFEESA	113507-82-7	2.22	315.1 / 135.0	2143172		4.764	0.086	0.081	Pass	106.8
71	PFEESA_2	113507-82-7	2.22	315.1 / 82.9	183524		4.960	0.086	0.081	Pass	111.2
72	PFMPA	377-73-1	0.75	229.0 / 85.0	834661		5.149	N/A	N/A	N/A	103.0
73	PFMBA	863090-89-5	1.44	279.0 / 85.0	850980		5.170	N/A	N/A	N/A	103.4
74	NFDHA	151772-58-6	1.84	295.0 / 201.0	645647		5.483	0.714	0.681	Pass	109.7
75	NFDHA_2	151772-58-6	1.84	295.0 / 84.9	461183		5.534	0.714	0.681	Pass	110.7
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	1.70	333.2 / 312.1	111521		4.063	N/A	N/A	N/A	81.3
79	13C2-PFOA	Surr	2.98	415.0 / 370.0	323036		2.432	N/A	N/A	N/A	97.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.59	217.0 / 172.0	1734014		9.452	NA	NA	NA	94.5

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C5-PFPeA	EIS	1.17	268.0 / 223.0	749255		4.970	NA	NA	NA	99.4
13C5-PFHxA	EIS	1.91	318.0 / 273.0	337944		2.384	NA	NA	NA	95.4
13C4-PFHpA	EIS	2.49	367.0 / 322.0	318100		2.327	NA	NA	NA	93.1
13C8-PFOA	EIS	2.98	420.8 / 376.0	590918		2.474	NA	NA	NA	99.0
13C9-PFNA	EIS	3.43	472.0 / 427.0	251699		1.151	NA	NA	NA	92.1
13C6-PFDA	EIS	3.85	519.0 / 474.0	282550		1.175	NA	NA	NA	94.0
13C7-PFUnA	EIS	4.25	570.0 / 525.0	311128		1.173	NA	NA	NA	93.8

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.64	615.1 / 570.0	307064		1.151	NA	NA	NA	92.1
	13C2-PFTeDA	EIS	5.39	715.1 / 670.1	195365		1.129	NA	NA	NA	90.3
	13C3-PFBS	EIS	1.91	302.1 / 80.1	337284		2.167	NA	NA	NA	93.0
	13C3-PFHxS	EIS	3.09	402.1 / 80.1	304978		2.204	NA	NA	NA	93.0
	13C8-PFOS	EIS	4.00	507.1 / 80.1	335550		2.234	NA	NA	NA	93.1
	13C2-4:2FTS	EIS	1.71	329.1 / 81.1	97208		4.234	NA	NA	NA	90.3
	13C2-6:2FTS	EIS	2.80	429.2 / 81.1	80793		4.087	NA	NA	NA	85.9
	13C2-8:2FTS	EIS	3.67	529.2 / 81.1	76511		3.823	NA	NA	NA	79.6

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.23	506.1 / 78.1	547515		2.296	NA	NA	NA	91.8
d3-NMeFOSA	EIS	5.97	515.2 / 219.0	98735		2.293	NA	NA	NA	91.7
d5-NEtFOSA	EIS	6.26	531.2 / 219.0	87785		2.242	NA	NA	NA	89.7
d3-NMeFOSAA	EIS	3.97	573.2 / 419.1	132565		4.500	NA	NA	NA	90.0
d5-NEtFOSAA	EIS	4.18	589.3 / 419.1	108895		4.625	NA	NA	NA	92.5
d7-NMeFOSE	EIS	5.82	623.2 / 58.9	731185		23.608	NA	NA	NA	94.4
d9-NEtFOSE	EIS	6.12	639.2 / 58.9	973204		23.424	NA	NA	NA	93.7

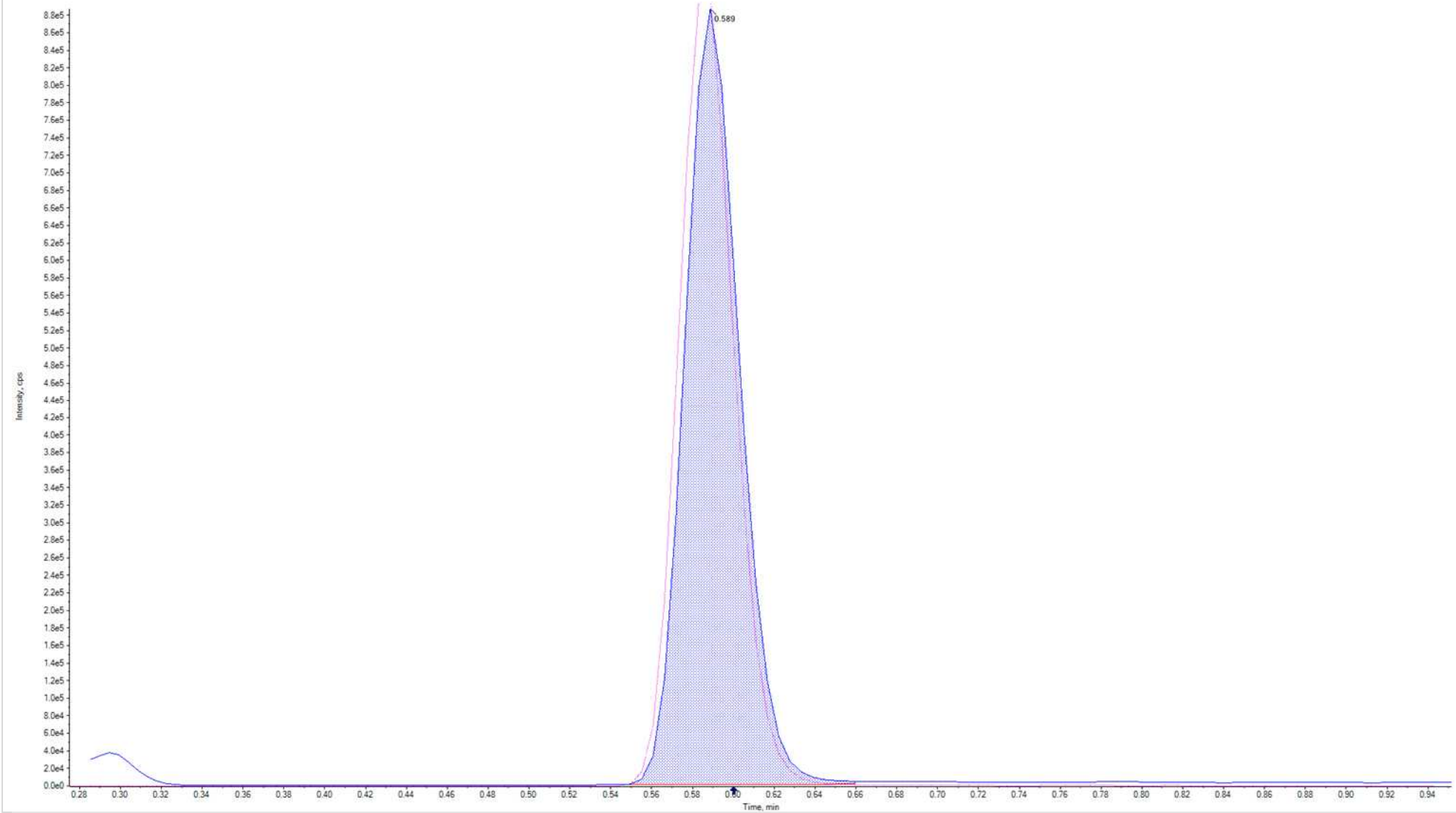
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	13C3-HFPO-DA	EIS	2.12	287.0 / 169.0	1484236		9.900	NA	NA	NA	99.0
	13C3-PFBA	NIS	0.59	216.0 / 172.0	811731		5.601	NA	NA	NA	112.0
	13C2-PFHxA	NIS	1.91	315.0 / 270.0	417363		2.575	NA	NA	NA	103.0
	13C4-PFOA	NIS	2.98	417.0 / 372.0	362989		2.525	NA	NA	NA	101.0
	13C5-PFNA	NIS	3.43	468.0 / 423.0	273972		1.329	NA	NA	NA	106.4
	13C2-PFDA	NIS	3.85	515.1 / 470.1	280549		1.319	NA	NA	NA	105.5
	18O2-PFHxS	NIS	3.09	403.1 / 84.1	290981		2.472	NA	NA	NA	104.3
	13C4-PFOS	NIS	3.99	503.1 / 80.1	302162		2.513	NA	NA	NA	104.7

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

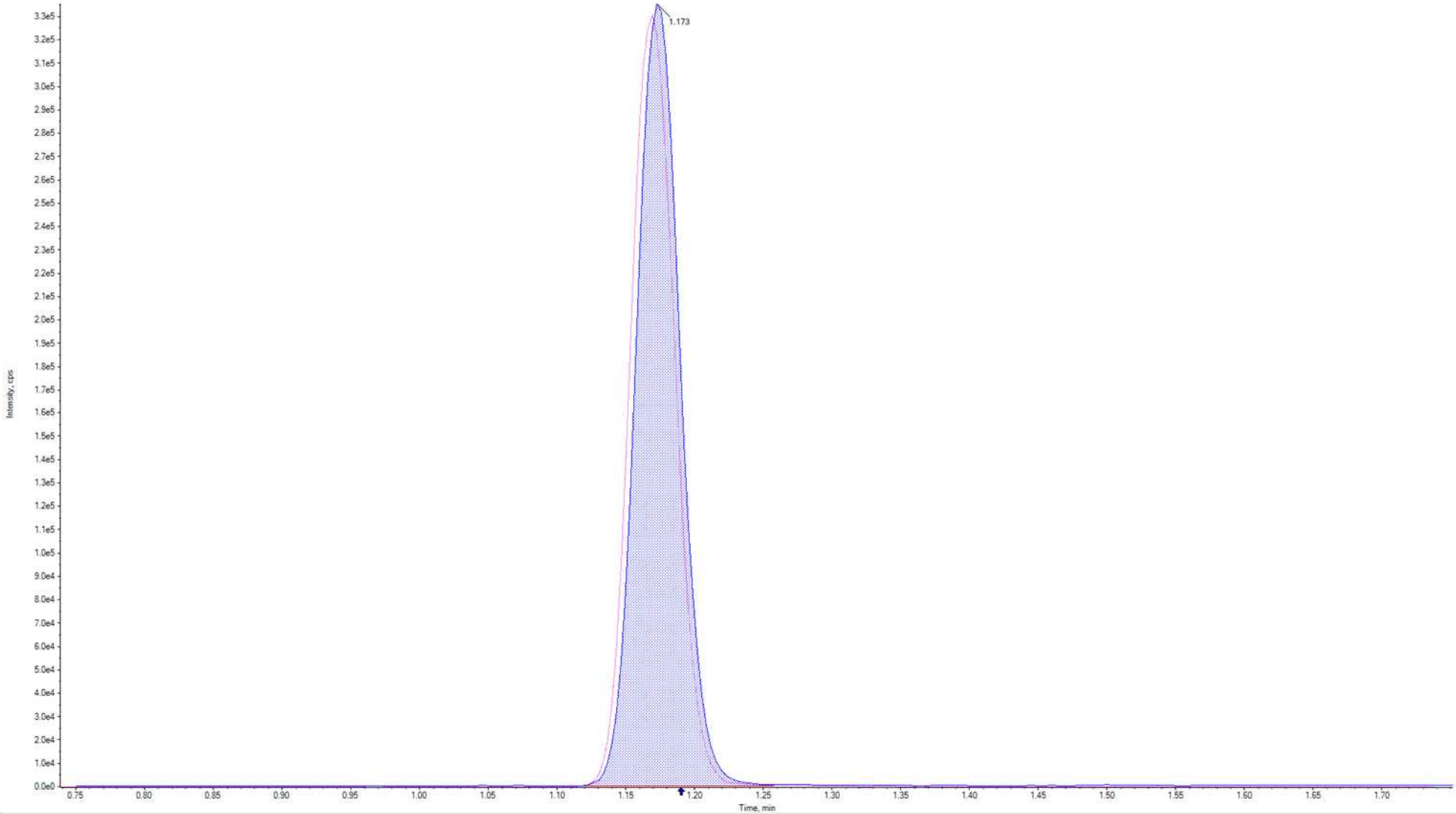
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFBA
Sample: IA1633STD-2.5 S/N:1595.4 Points Across peak:23



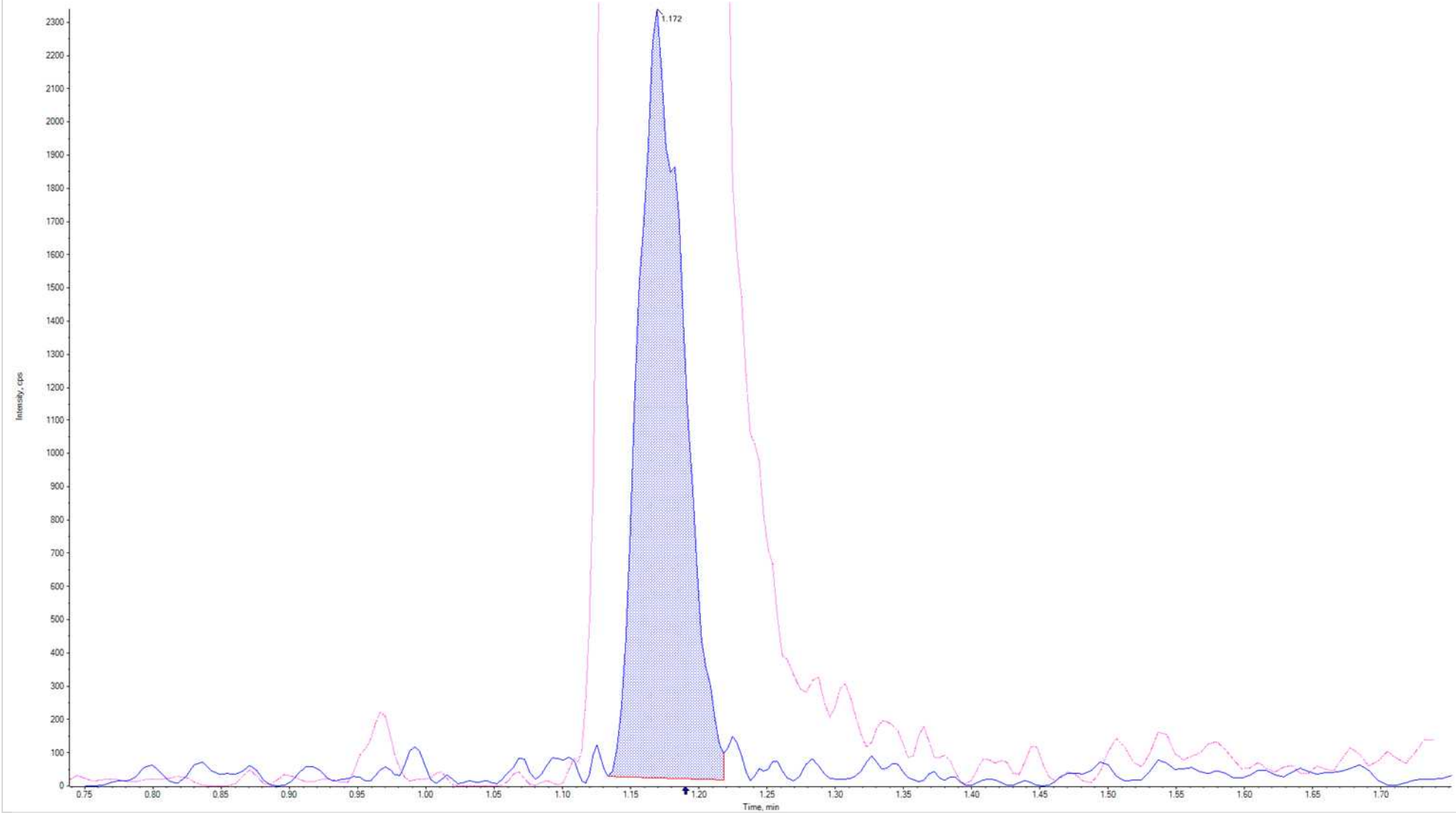
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFPeA
Sample: IA1633STD-2.5 S/N:4025.0 Points Across peak:46



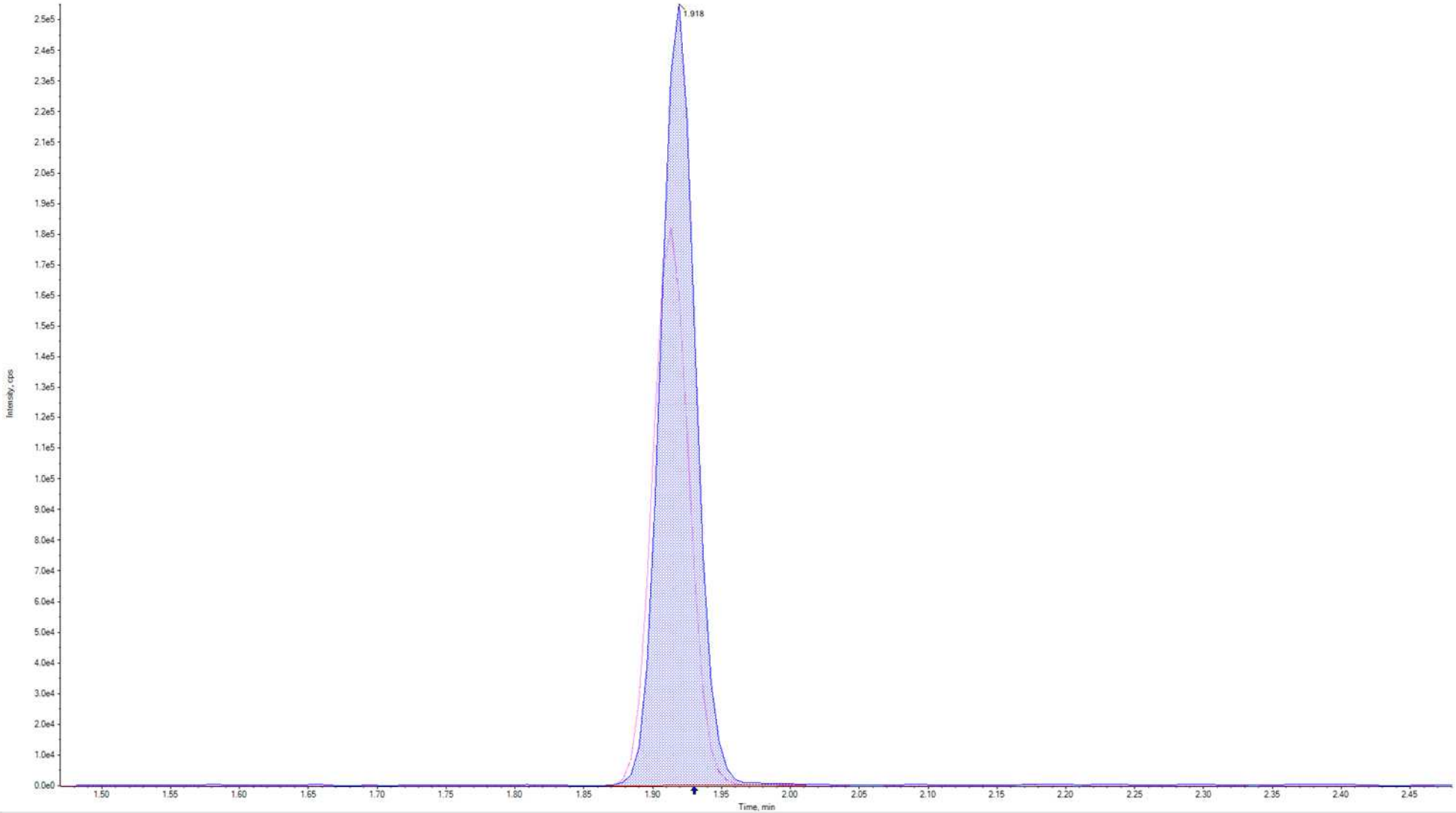
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFPeA_2
Sample: IA1633STD-2.5 S/N:139.3 Points Across peak:27



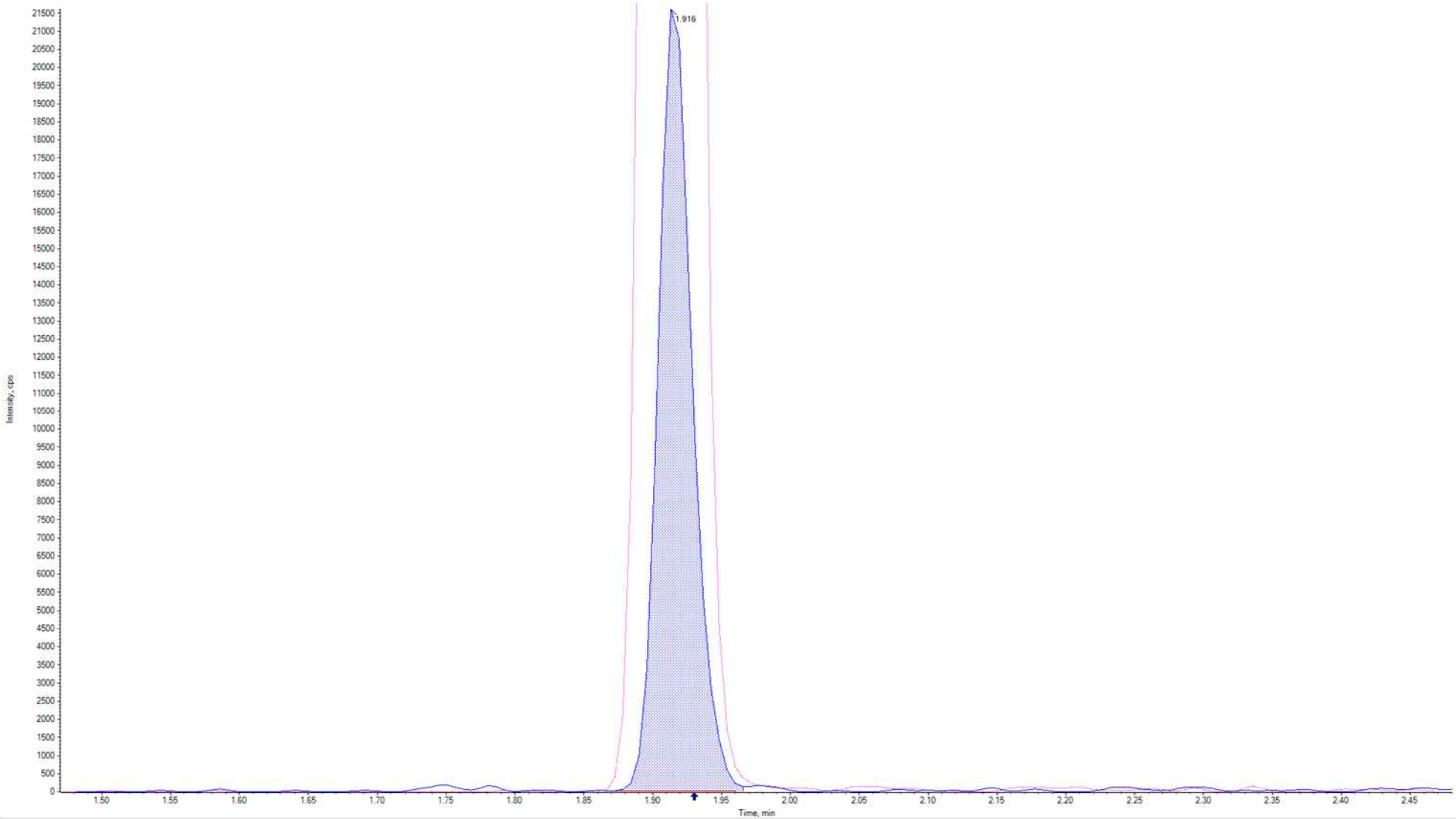
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHxA
Sample: IA1633STD-2.5 S/N:3563.6 Points Across peak:27



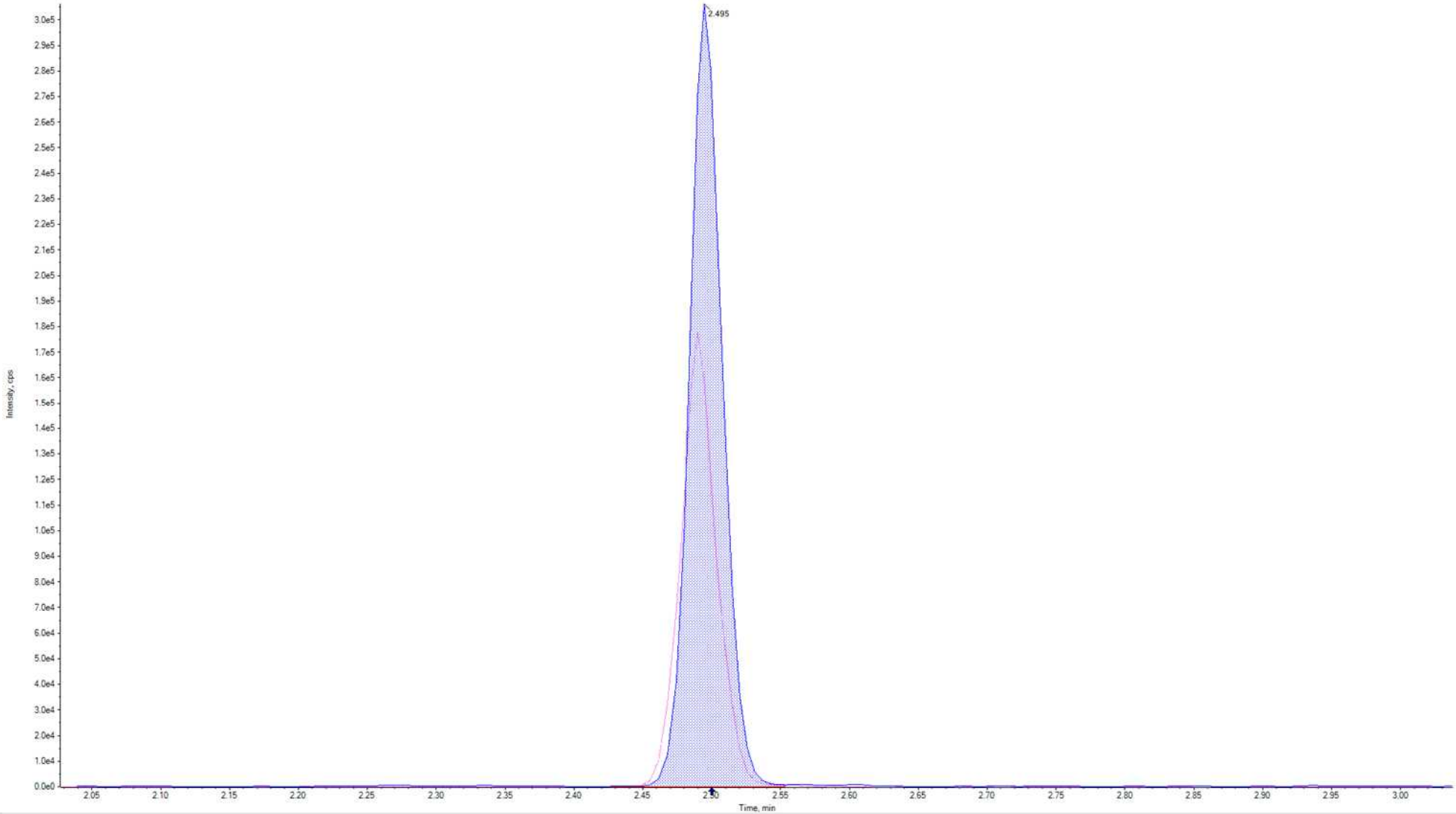
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
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PFHxA_2
Sample: IA1633STD-2.5 S/N:541.2 Points Across peak:18



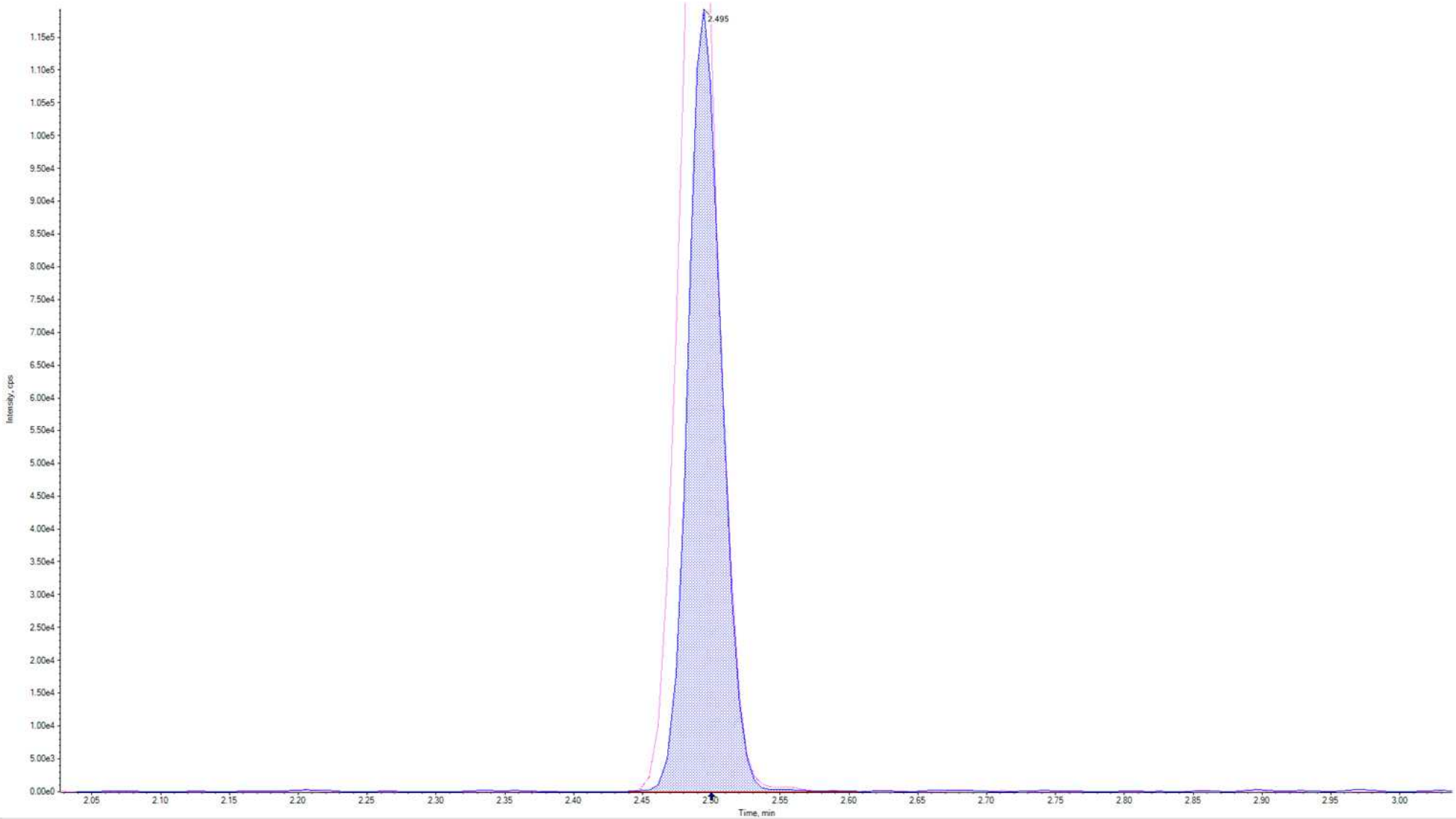
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFHpA
Sample: IA1633STD-2.5 S/N:3758.7 Points Across peak:27



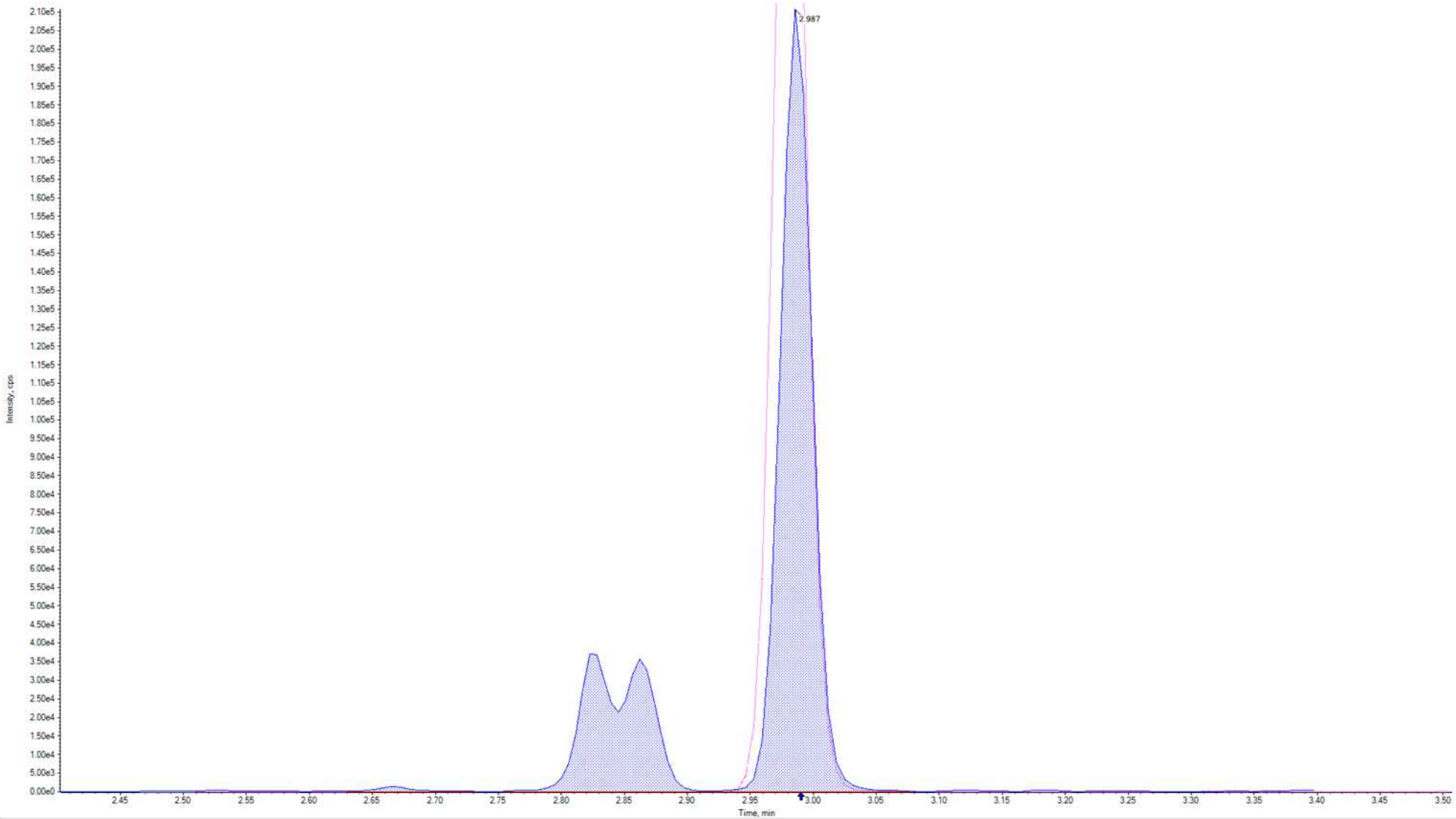
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
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PFHpA_2
Sample: IA1633STD-2.5 S/N:2391.4 Points Across peak:34



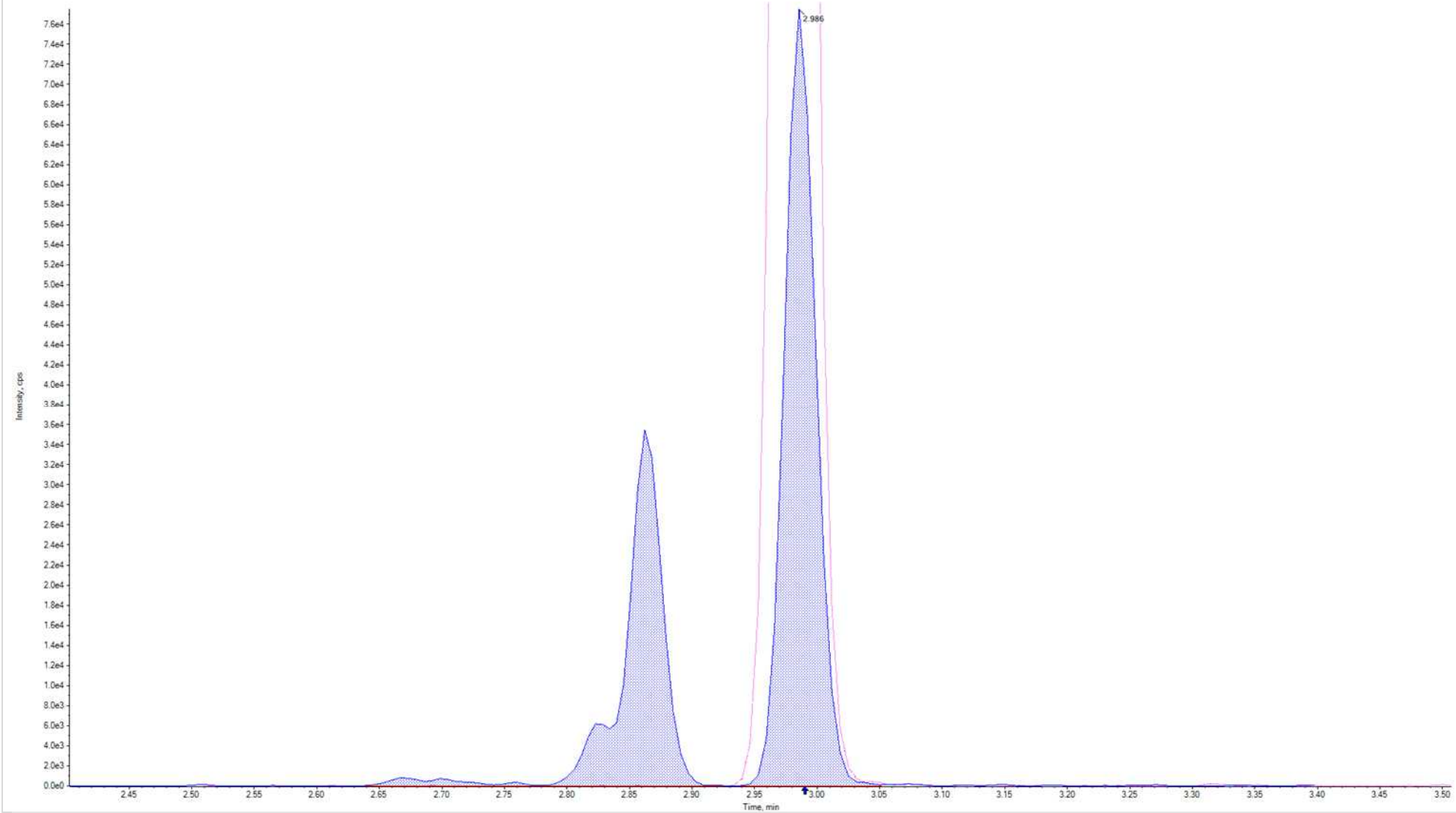
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOA
Sample: IA1633STD-2.5 S/N:670.6 Points Across peak:76



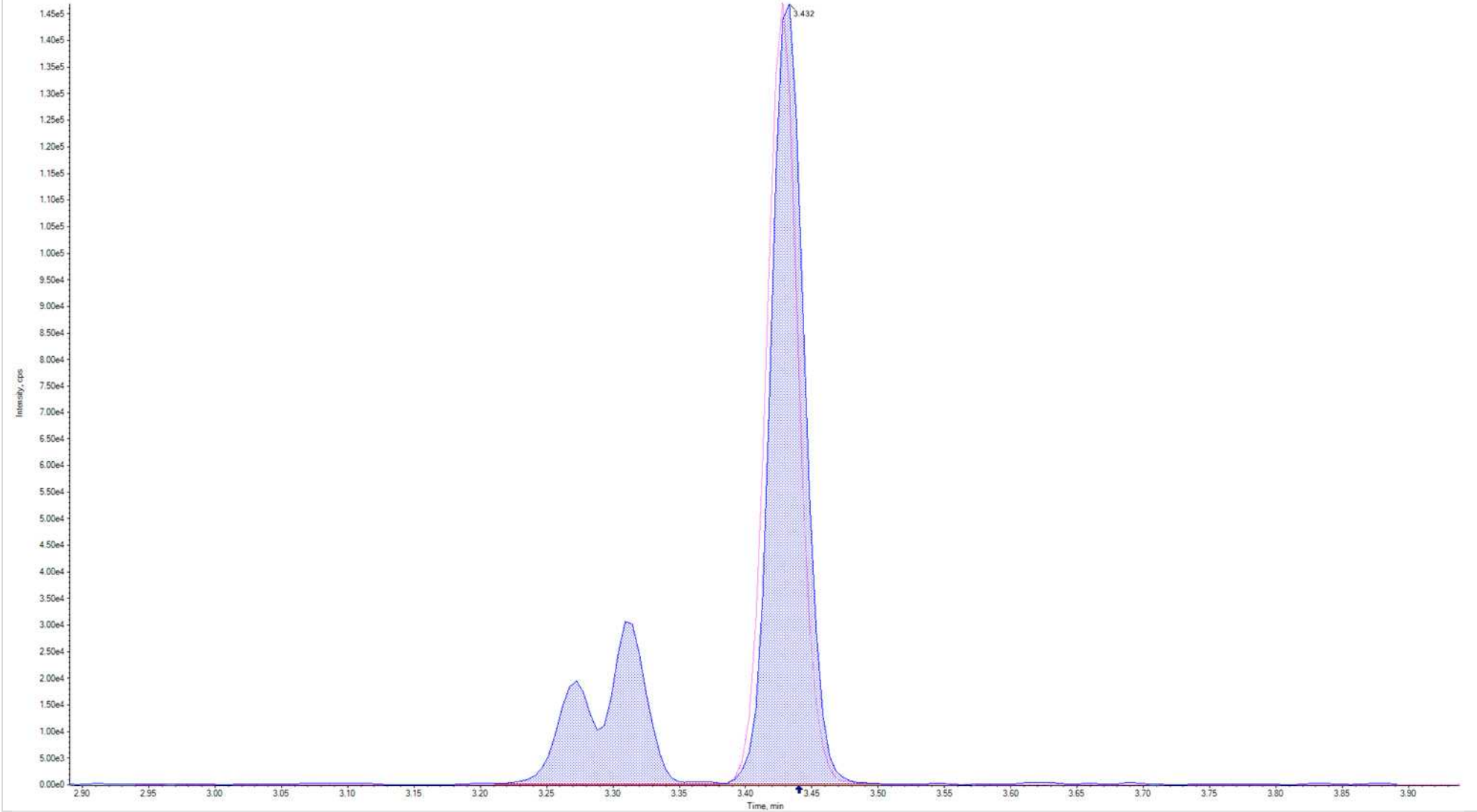
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOA_2
Sample: IA1633STD-2.5 S/N:479.6 Points Across peak:70



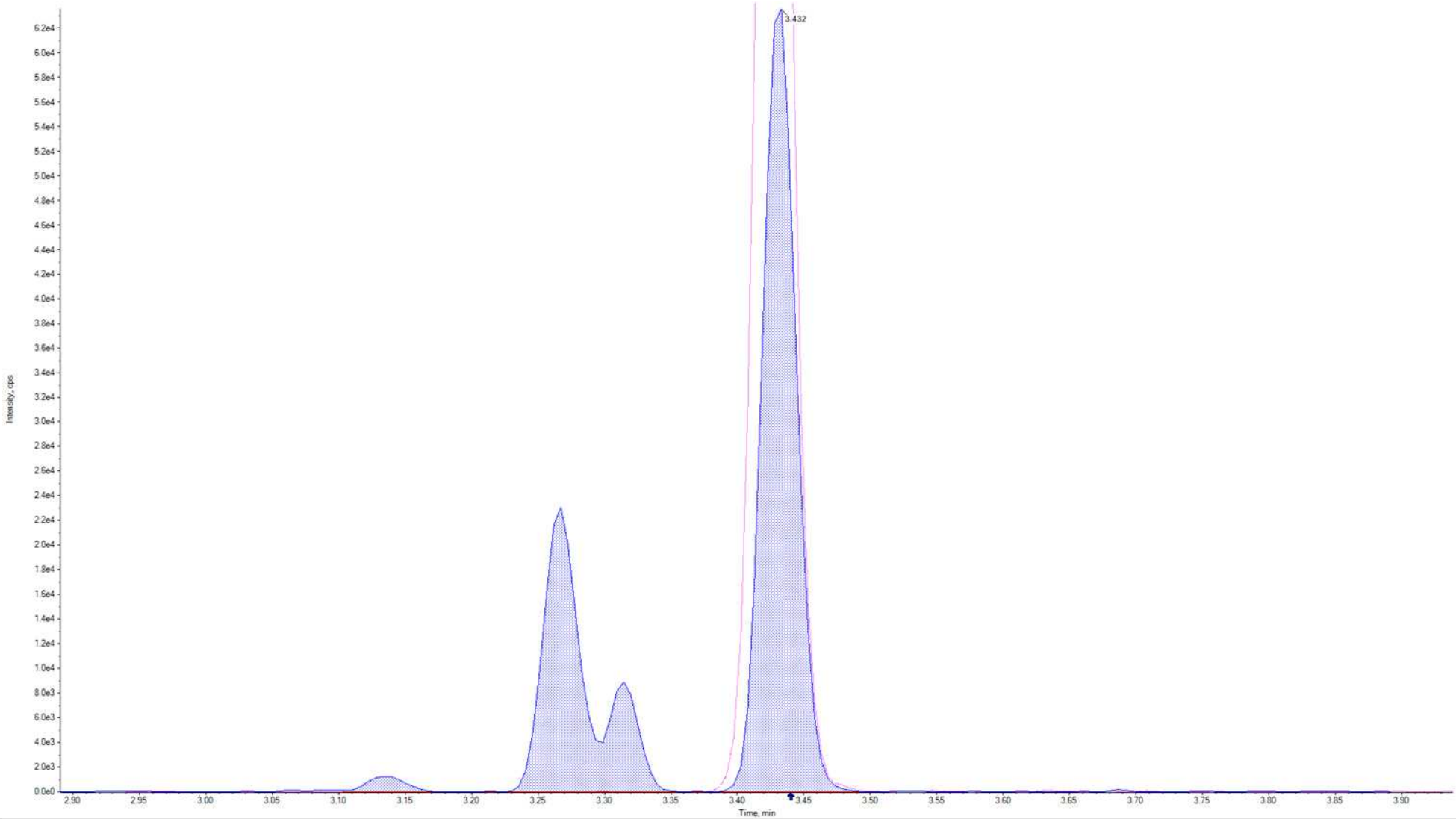
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNA
Sample: IA1633STD-2.5 S/N:616.4 Points Across peak:59



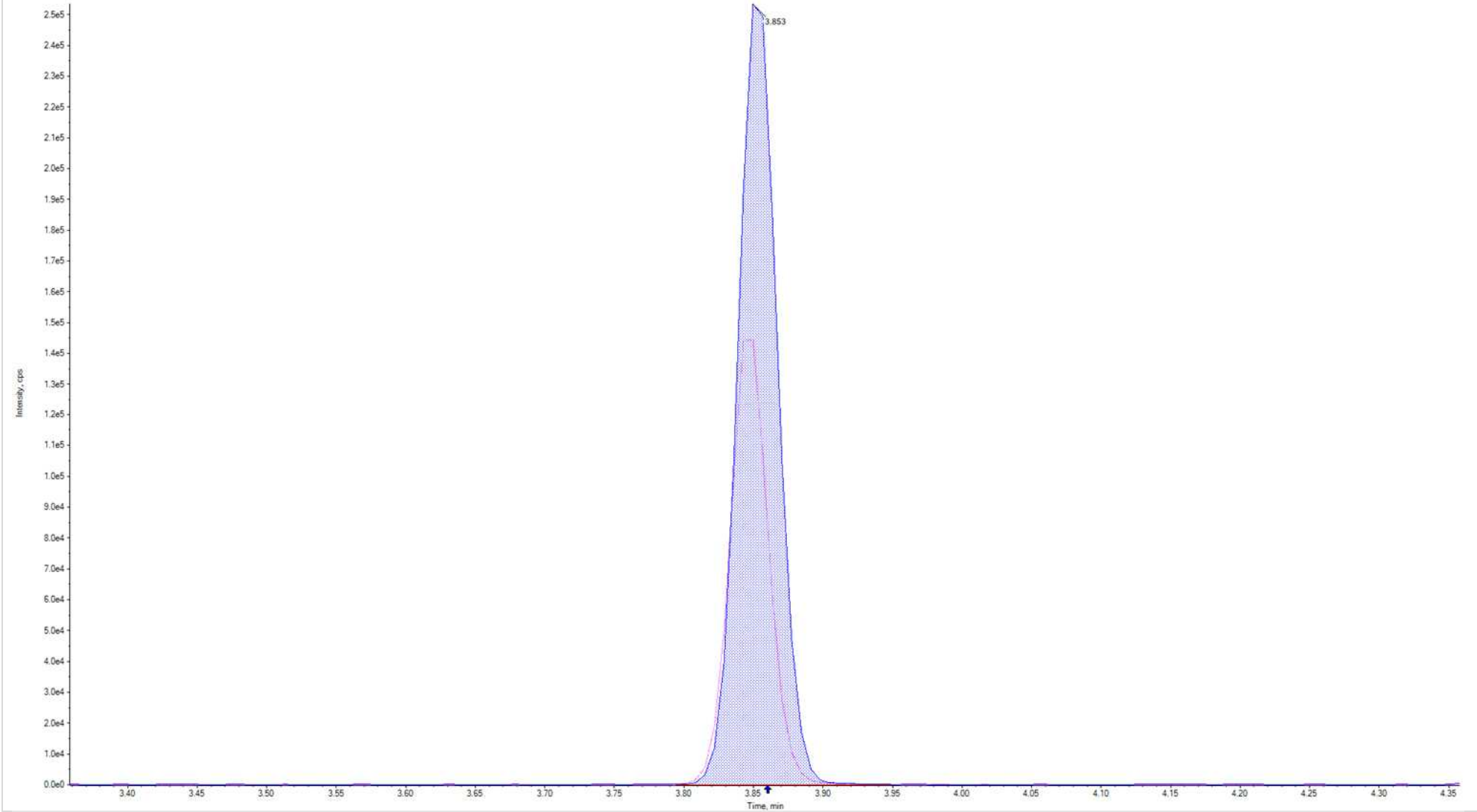
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNA_2
Sample: IA1633STD-2.5 S/N:513.7 Points Across peak:76



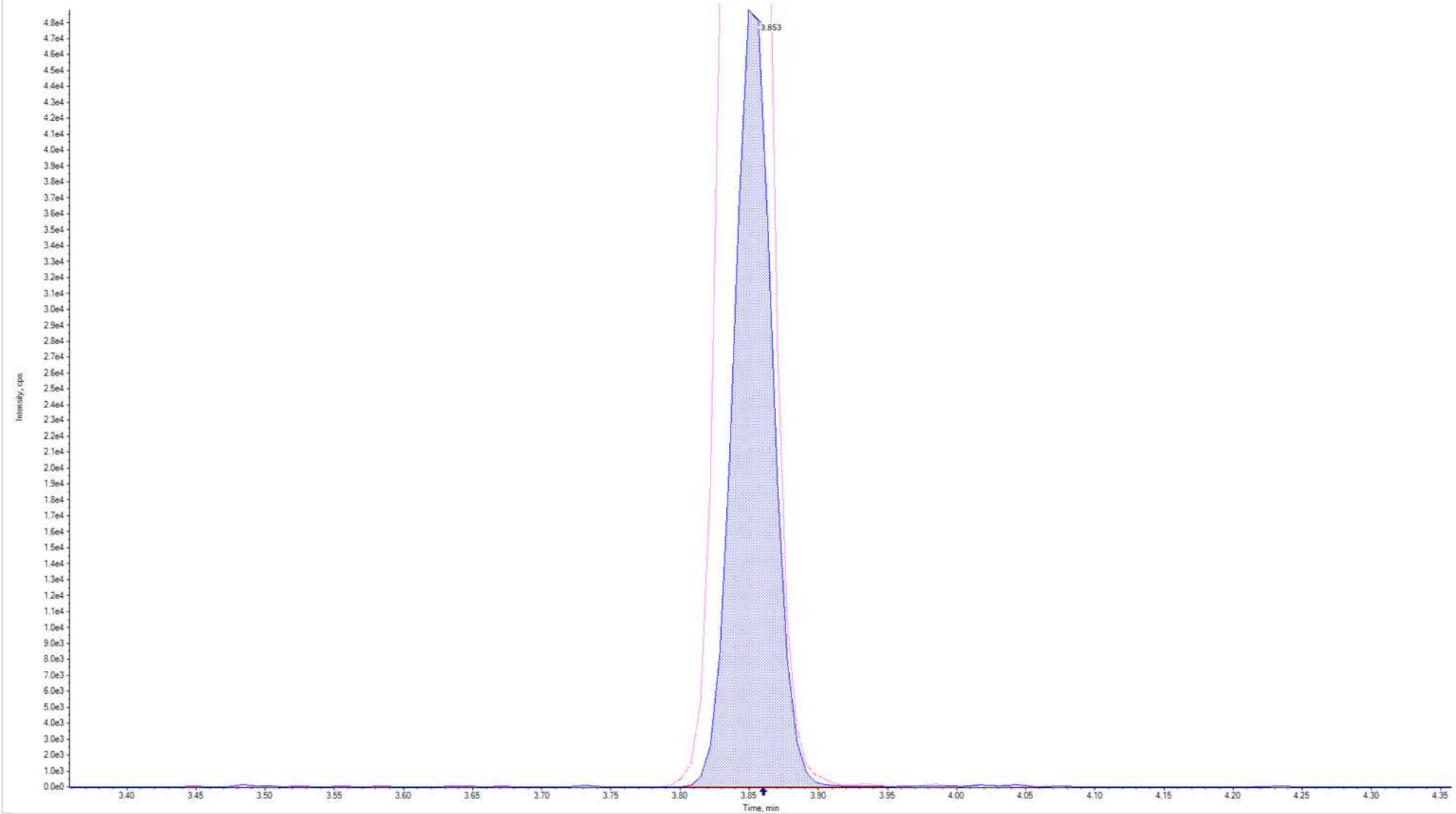
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDA
Sample: IA1633STD-2.5 S/N:5080.9 Points Across peak:24



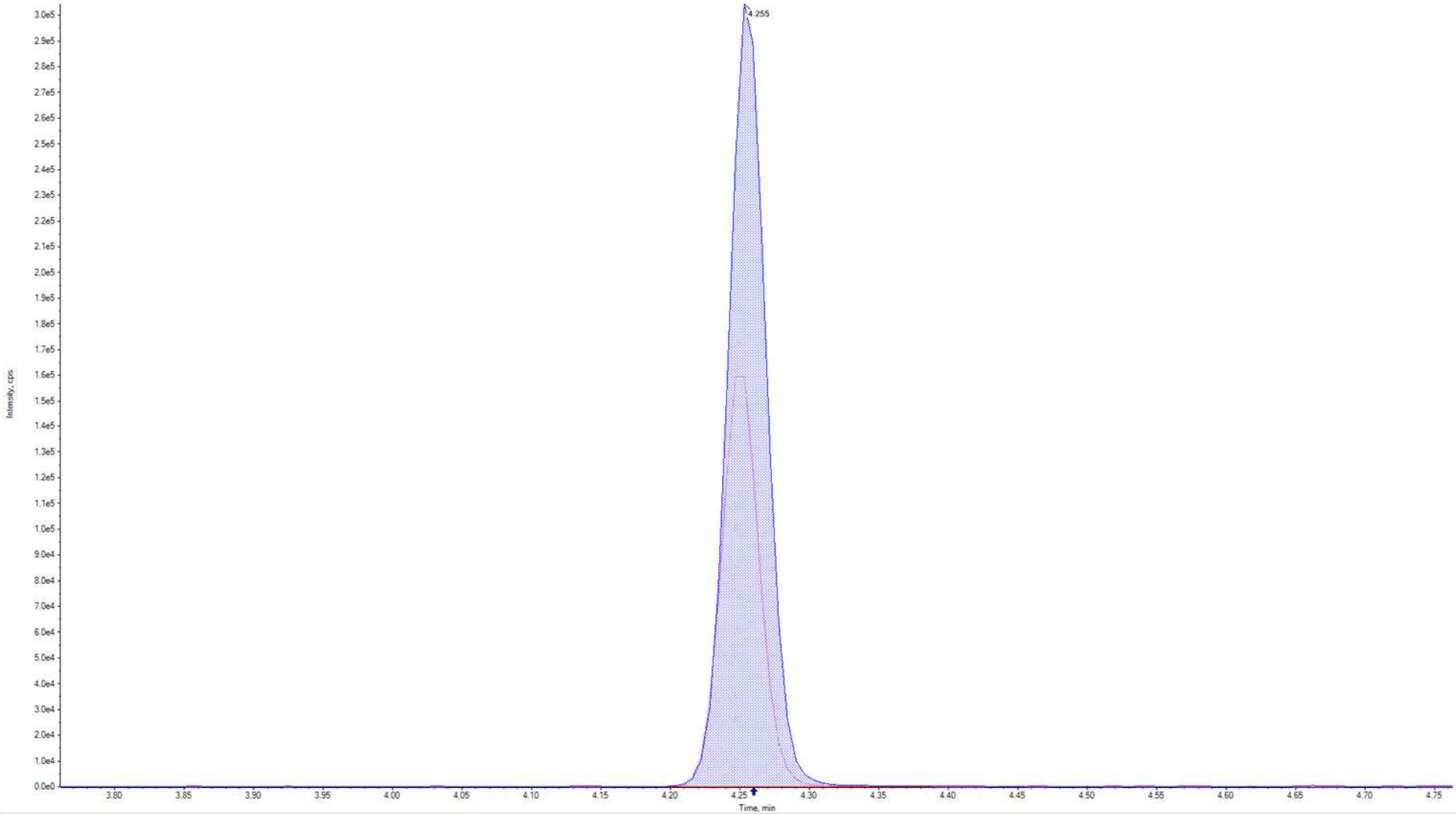
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDA_2
Sample: IA1633STD-2.5 S/N:978.6 Points Across peak:27



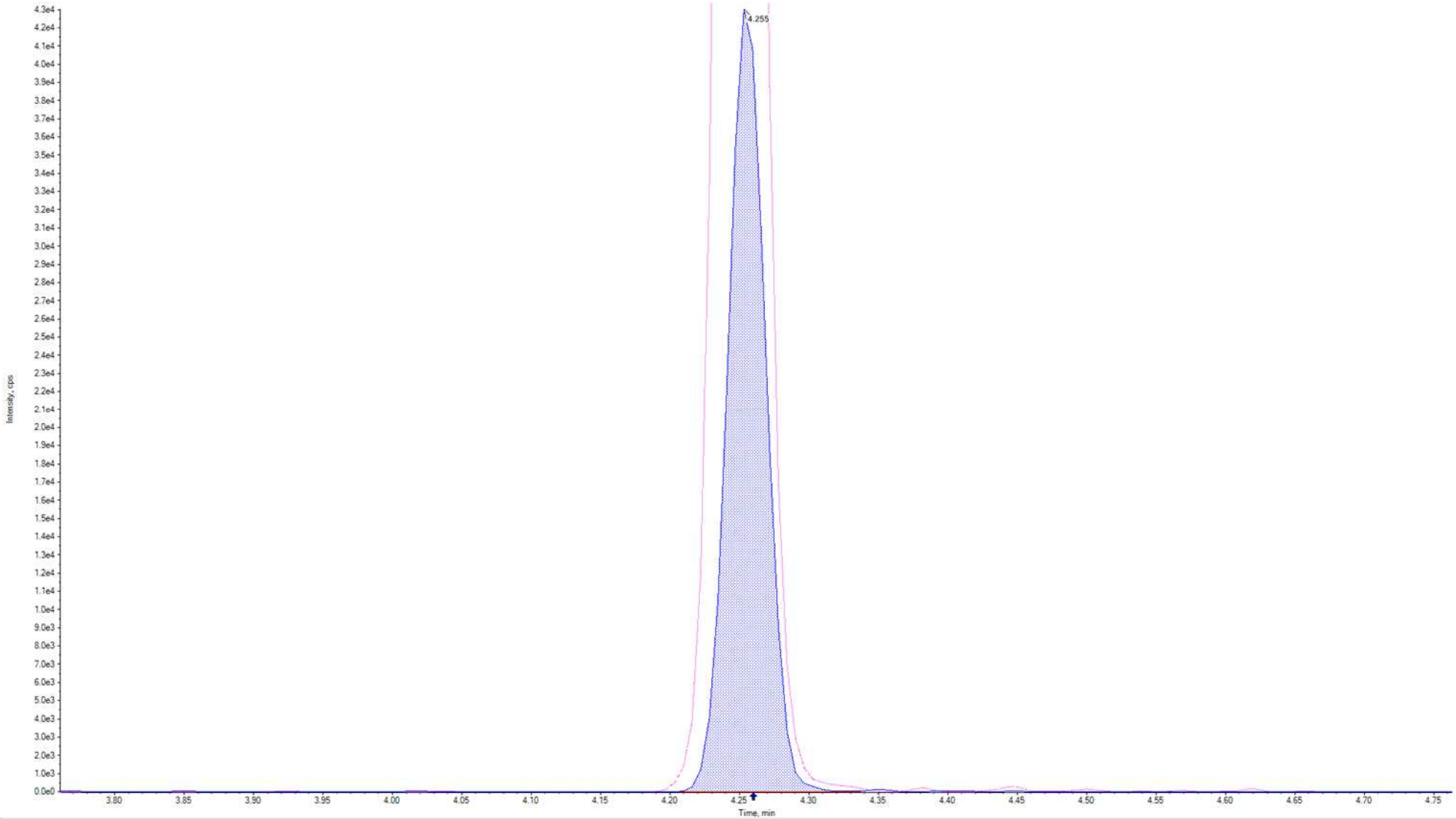
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFUnA
Sample: IA1633STD-2.5 S/N:6864.8 Points Across peak:32



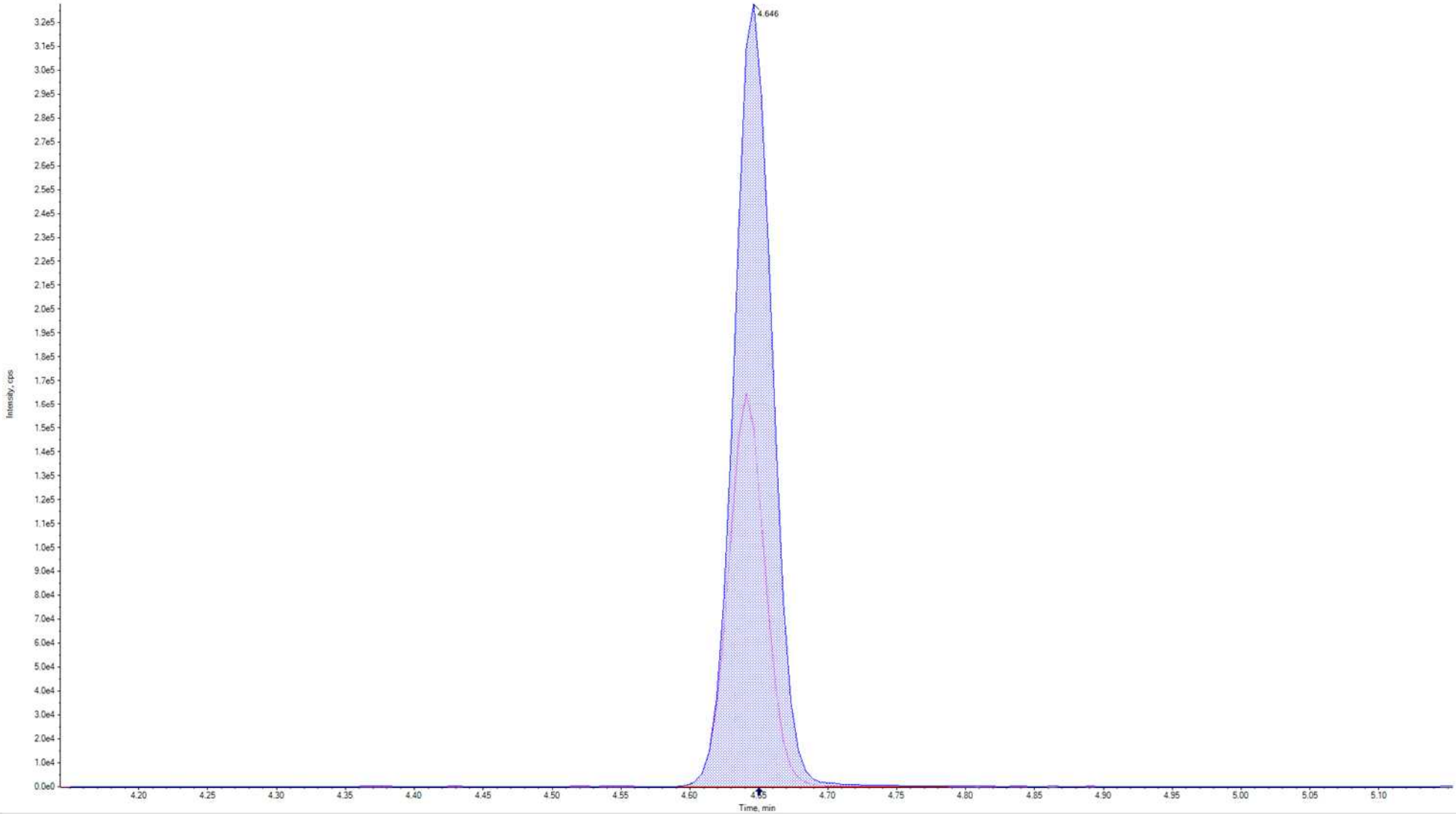
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFUnA_2
Sample: IA1633STD-2.5 S/N:970.6 Points Across peak:24



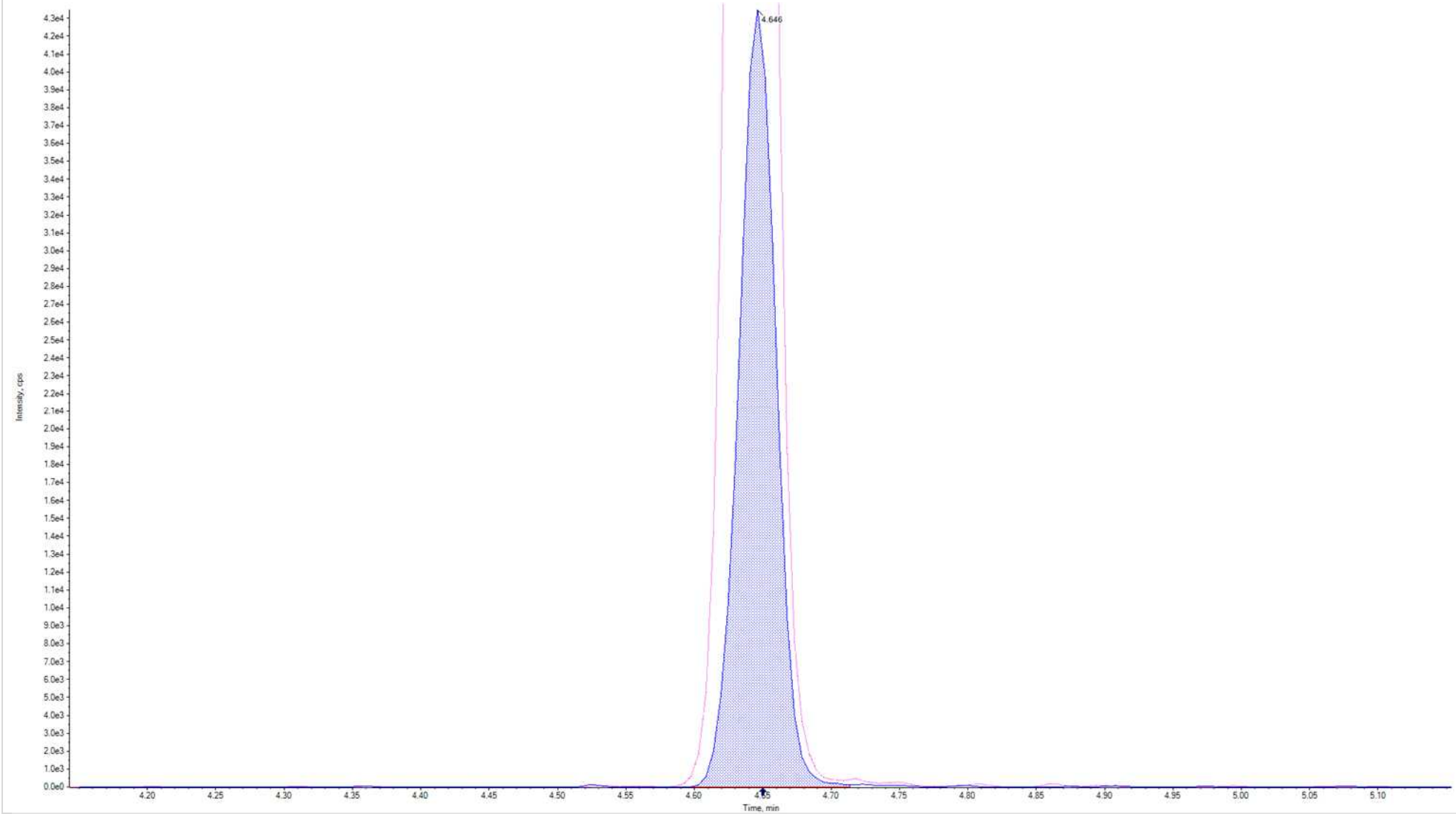
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFDoA
Sample: IA1633STD-2.5 S/N:9034.5 Points Across peak:38



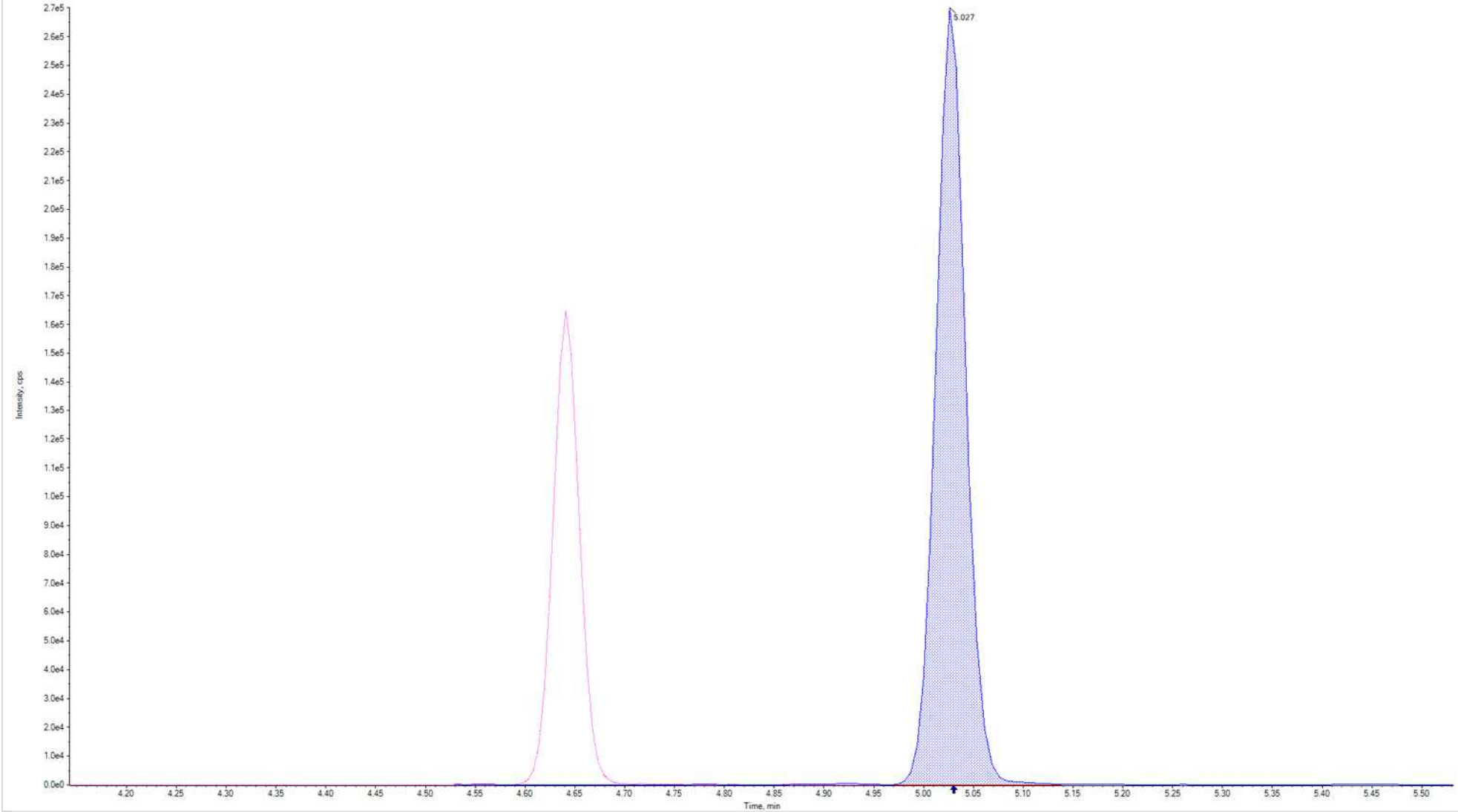
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDoA_2
Sample: IA1633STD-2.5 S/N:1198.6 Points Across peak:29



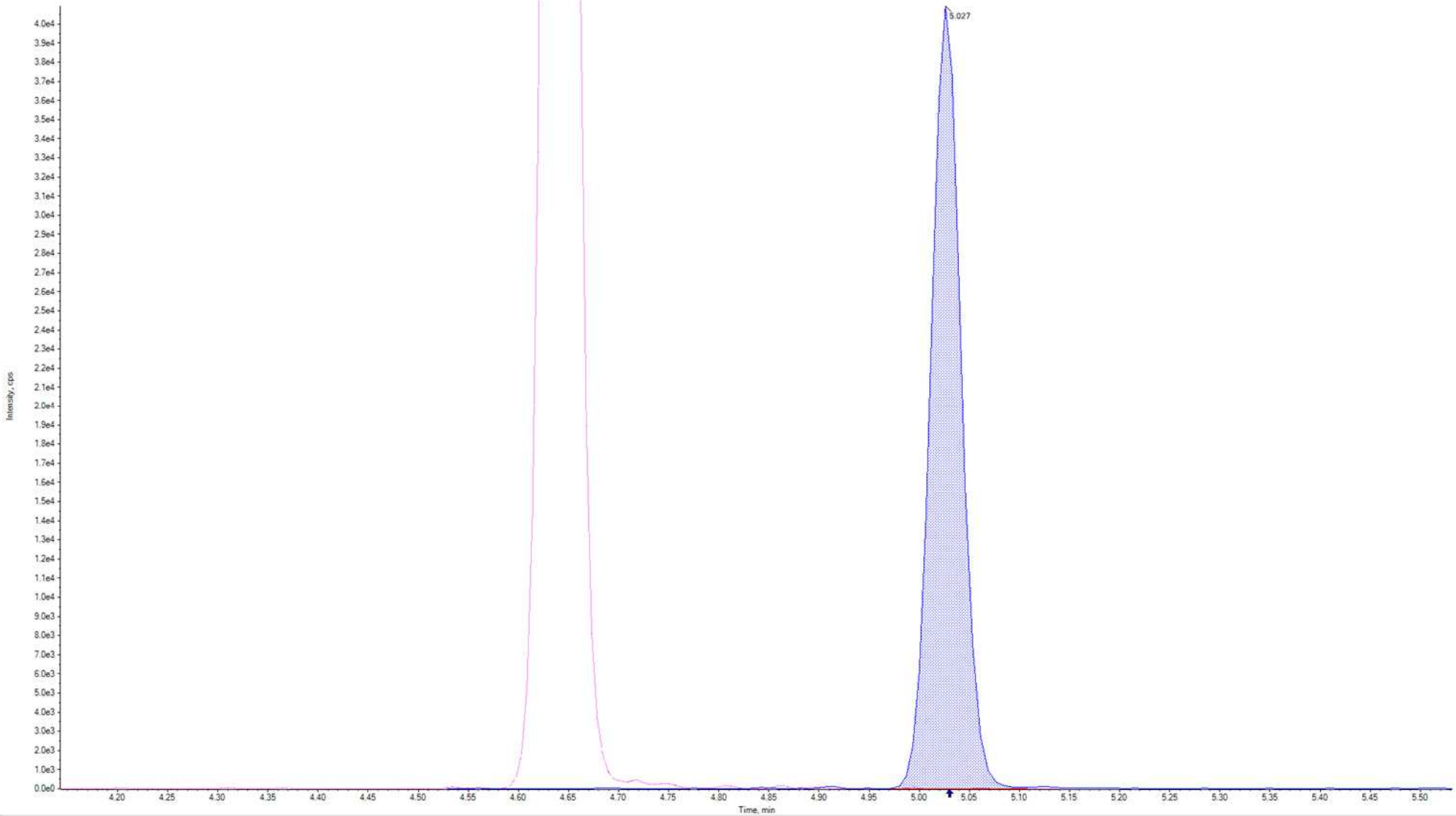
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFTrDA
Sample: IA1633STD-2.5 S/N:10830.1 Points Across peak:25



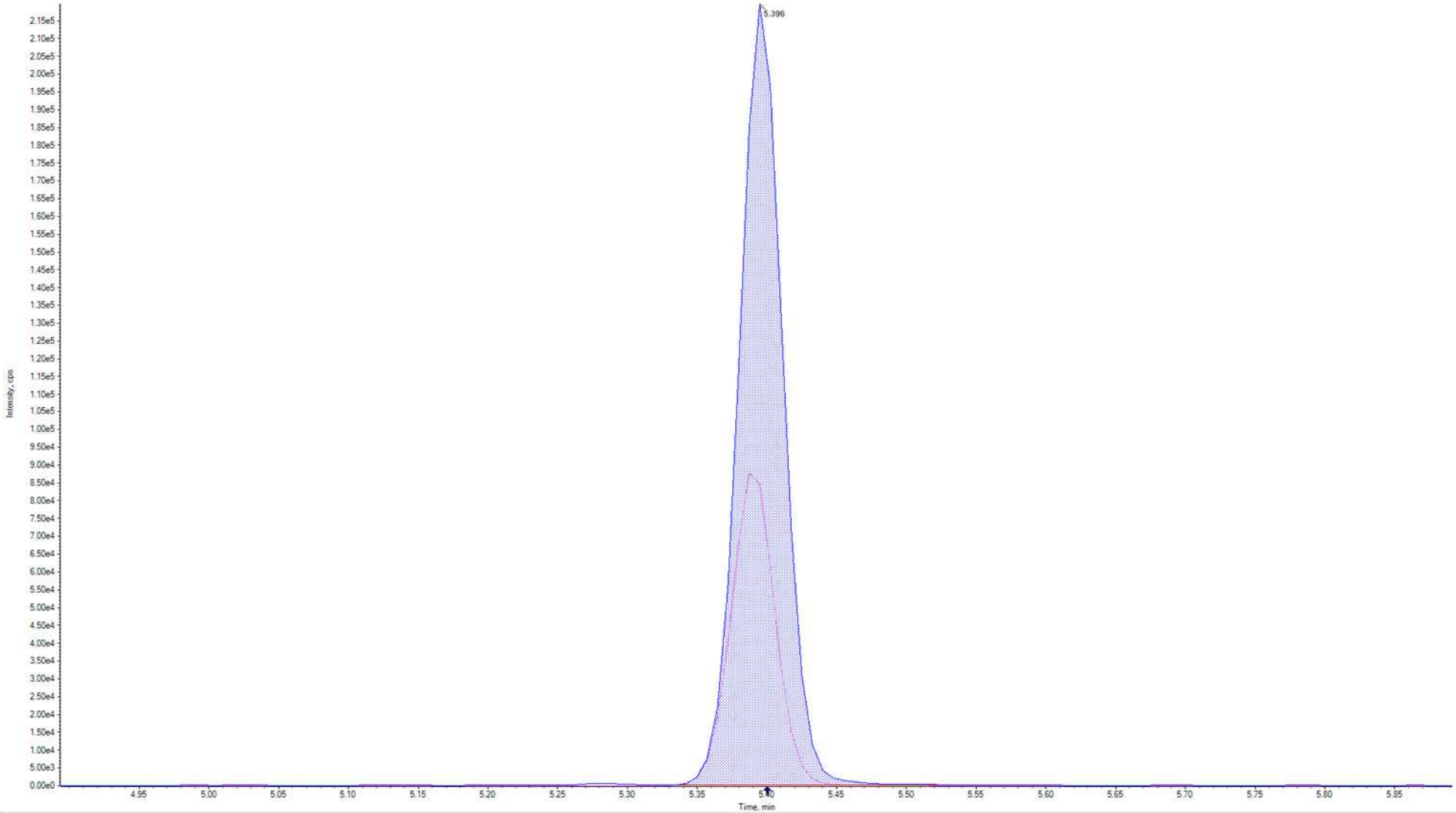
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Alpha Analytical LLC
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PFTrDA_2
Sample: IA1633STD-2.5 S/N:1641.5 Points Across peak:22



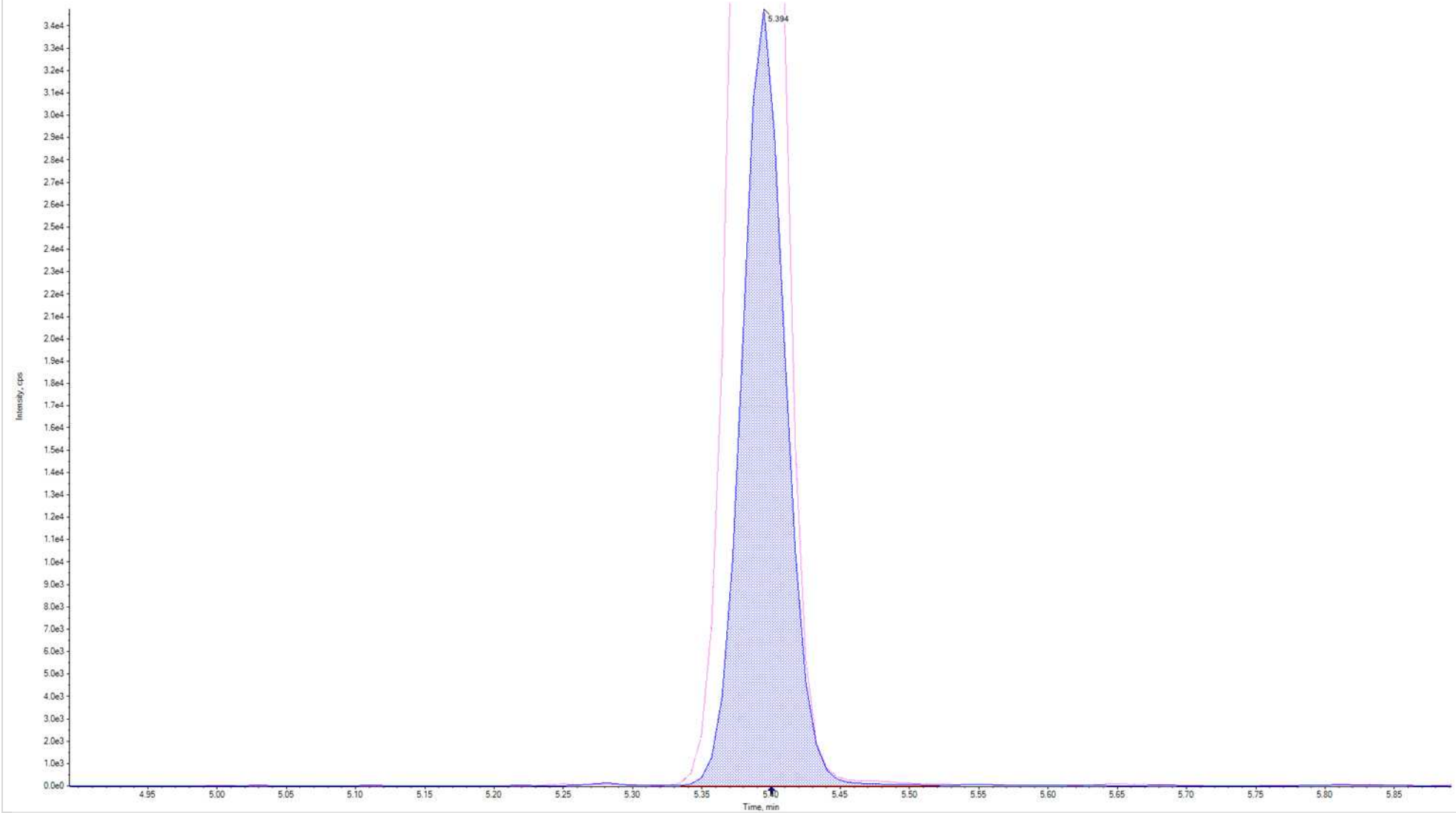
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFTeDA
Sample: IA1633STD-2.5 S/N:3420.6 Points Across peak:28



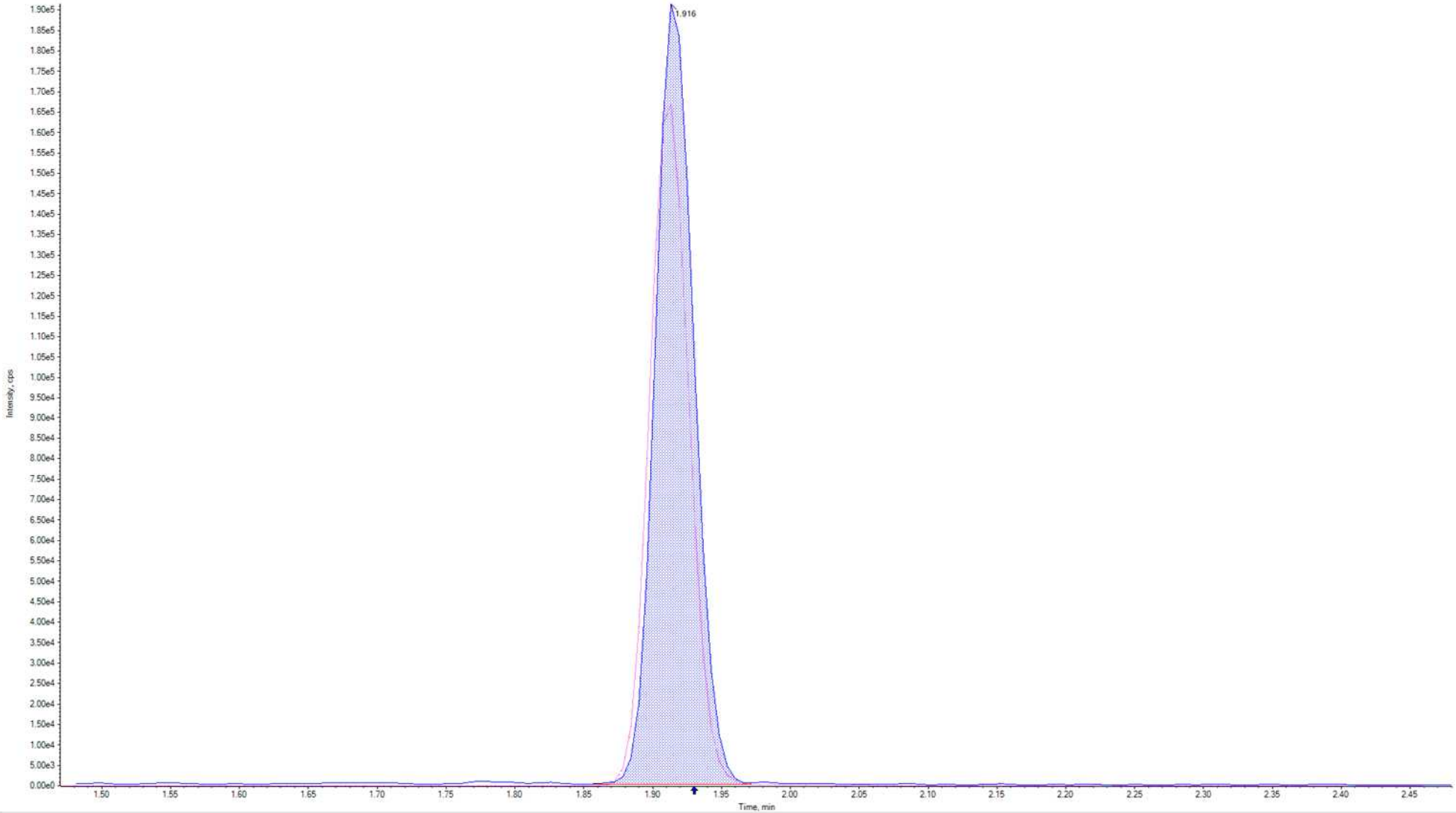
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Alpha Analytical LLC
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PFTeDA_2
Sample: IA1633STD-2.5 S/N:1329.0 Points Across peak:24



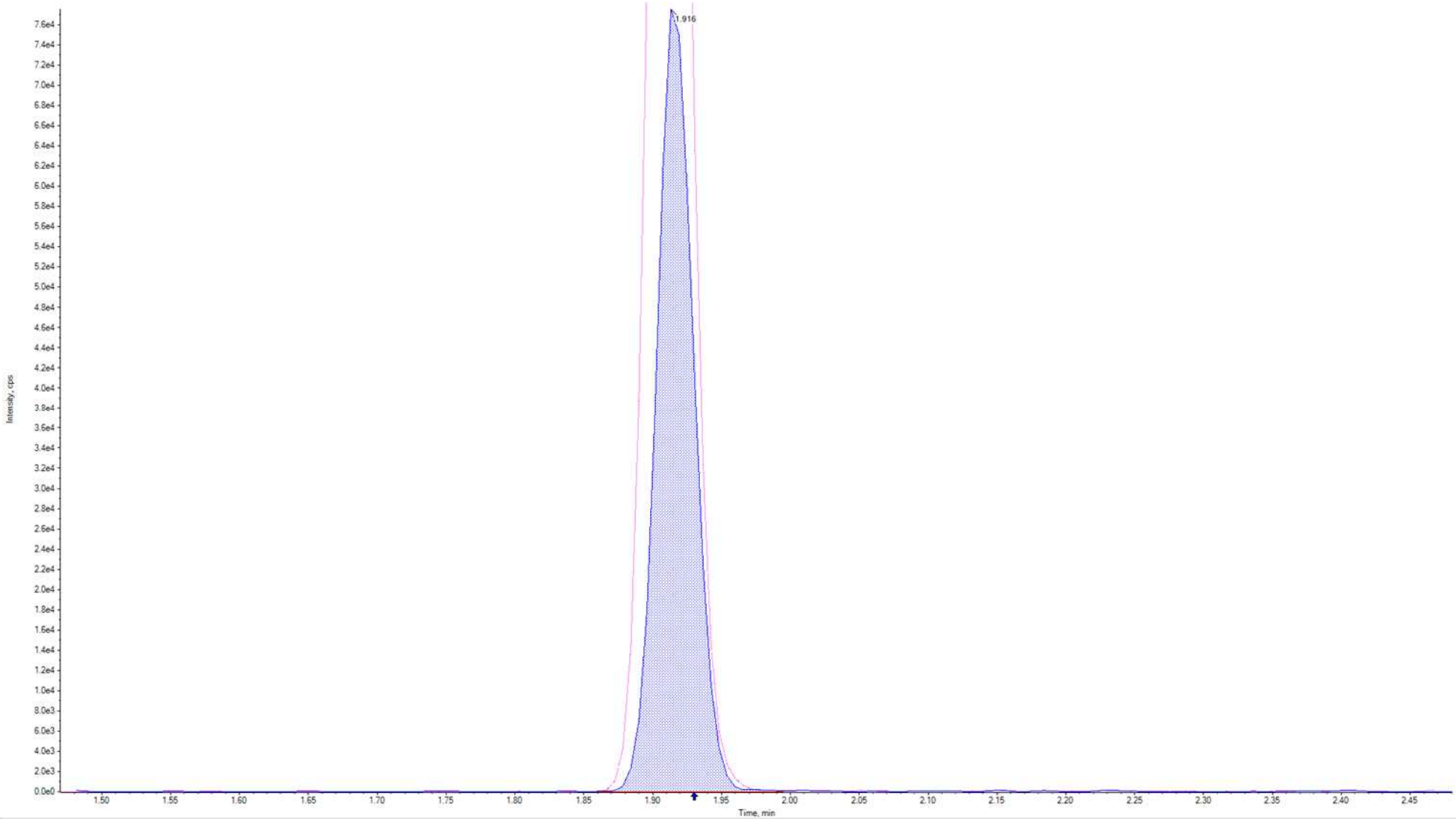
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFBS
Sample: IA1633STD-2.5 S/N:2212.3 Points Across peak:22



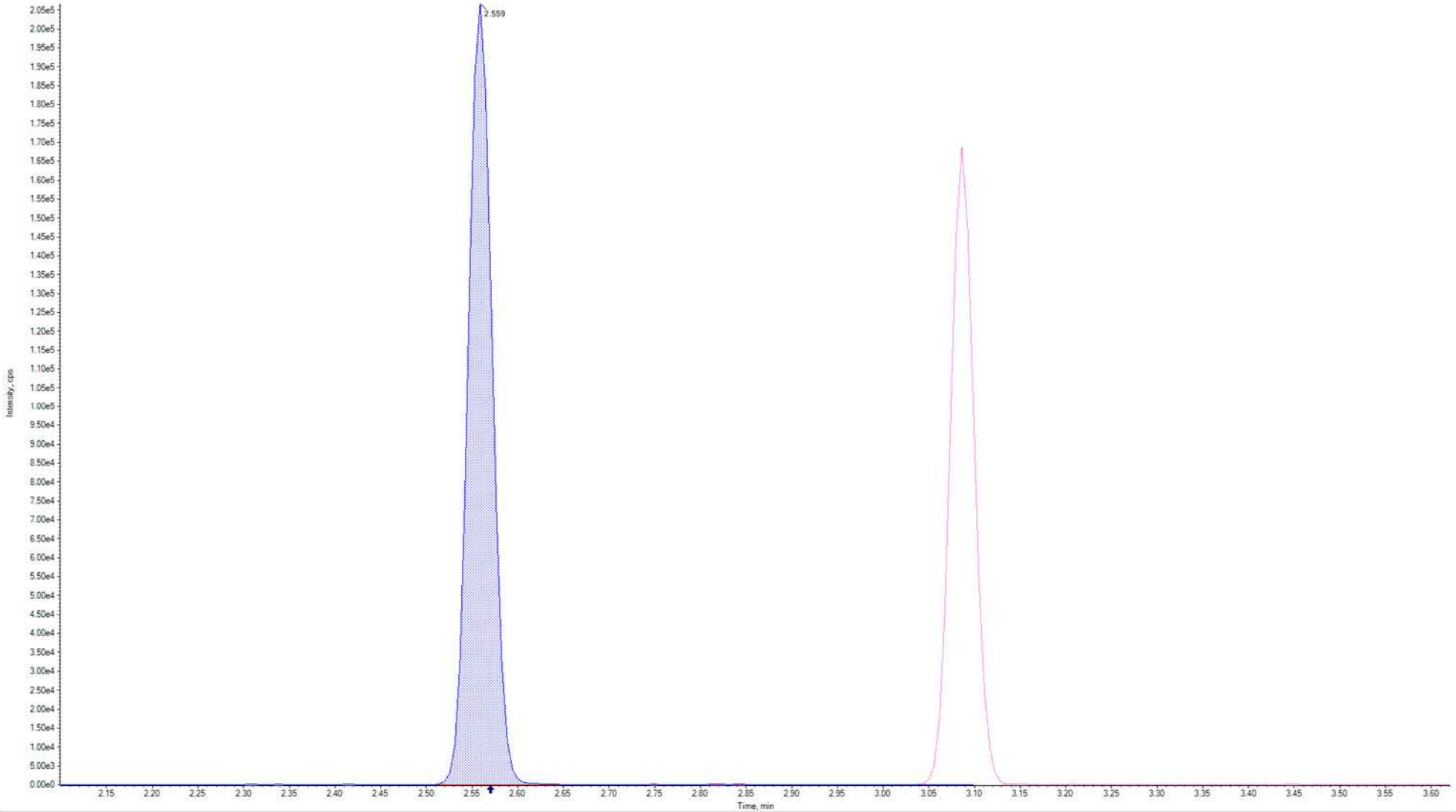
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFBS_2
Sample: IA1633STD-2.5 S/N:1943.2 Points Across peak:26



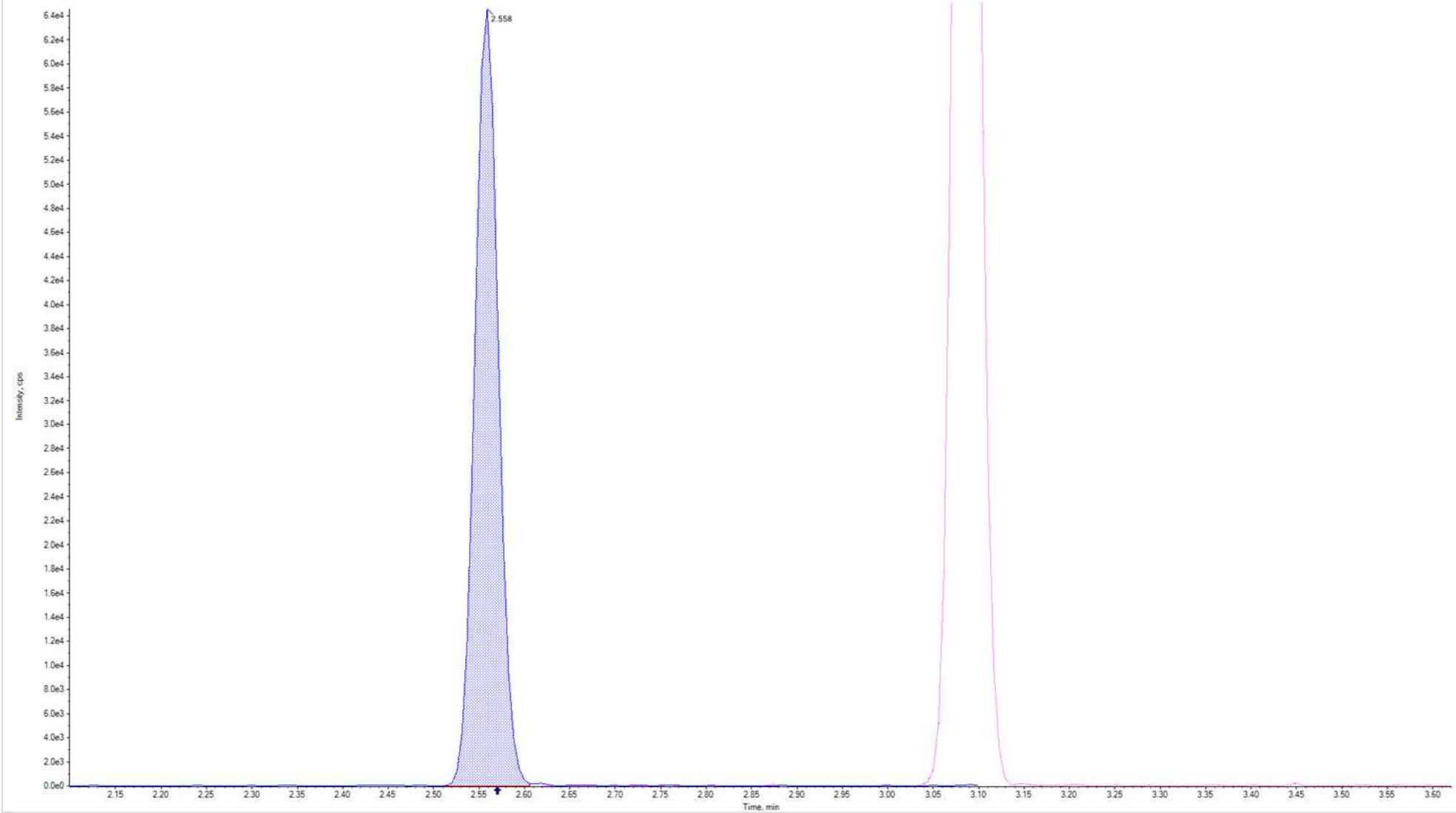
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFPeS
Sample: IA1633STD-2.5 S/N:2993.4 Points Across peak:32



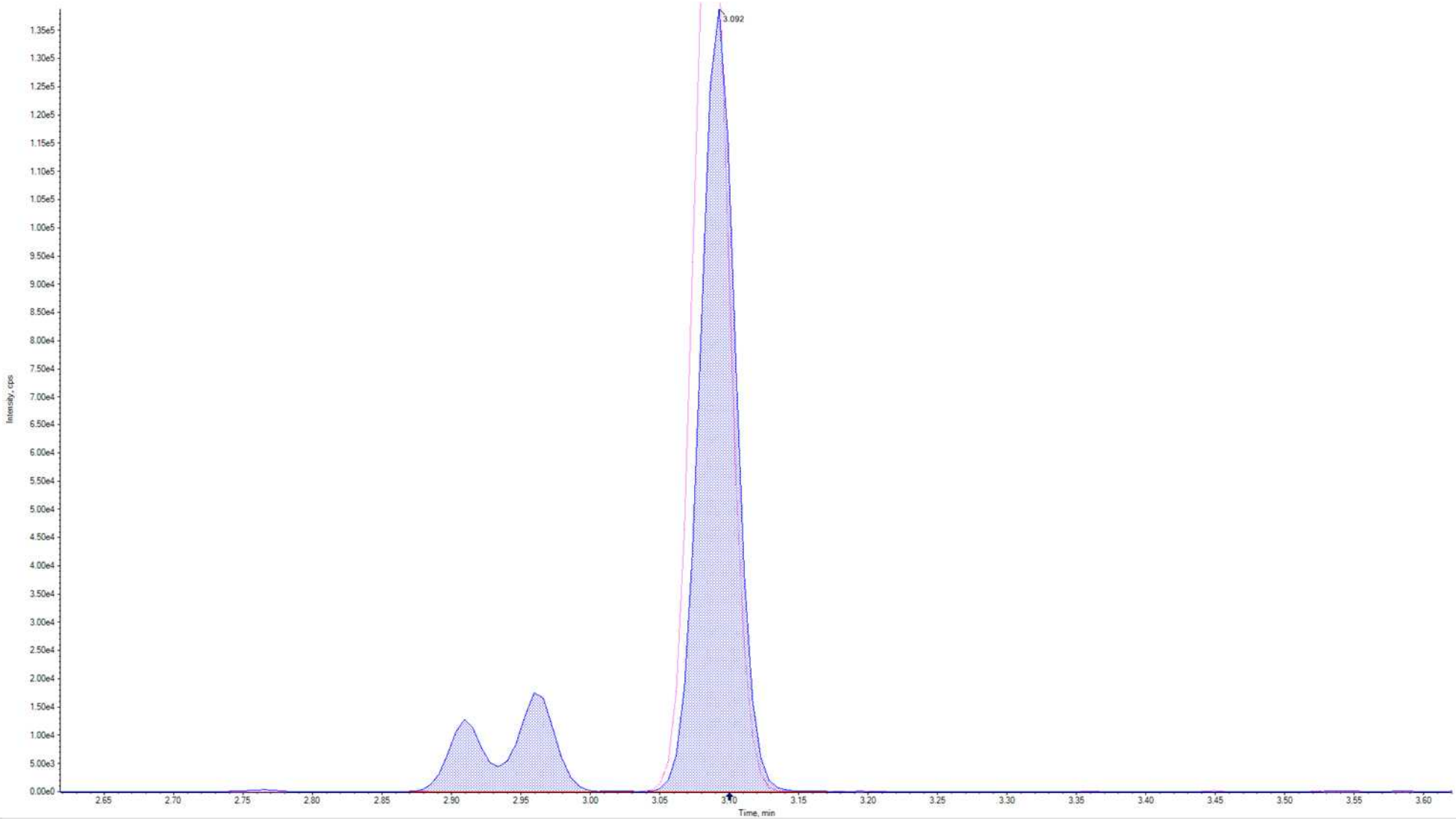
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFPeS_2
Sample: IA1633STD-2.5 S/N:1294.5 Points Across peak:19



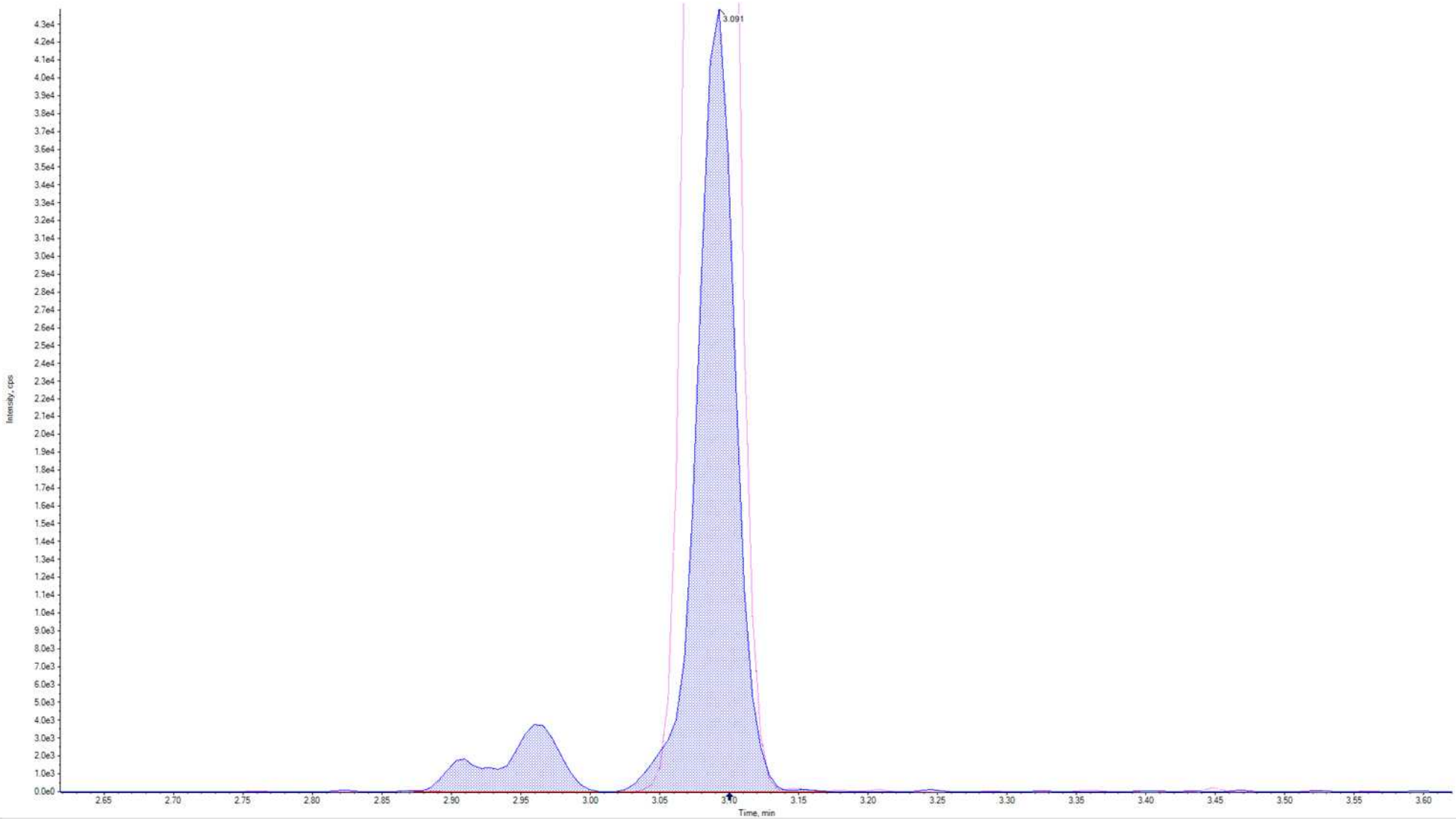
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHxS
Sample: IA1633STD-2.5 S/N:970.7 Points Across peak:52



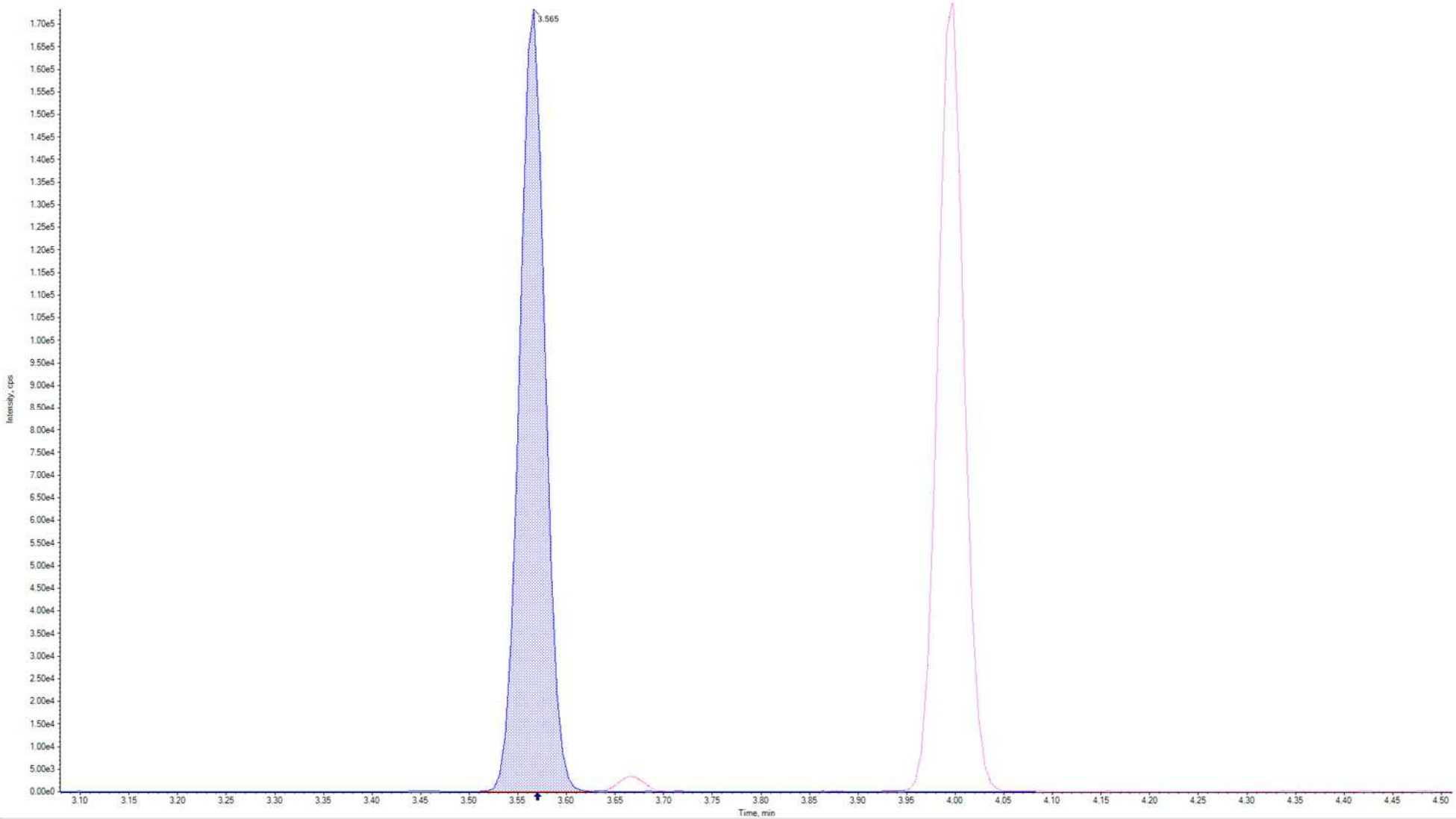
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFHxS_2
Sample: IA1633STD-2.5 S/N:931.6 Points Across peak:51



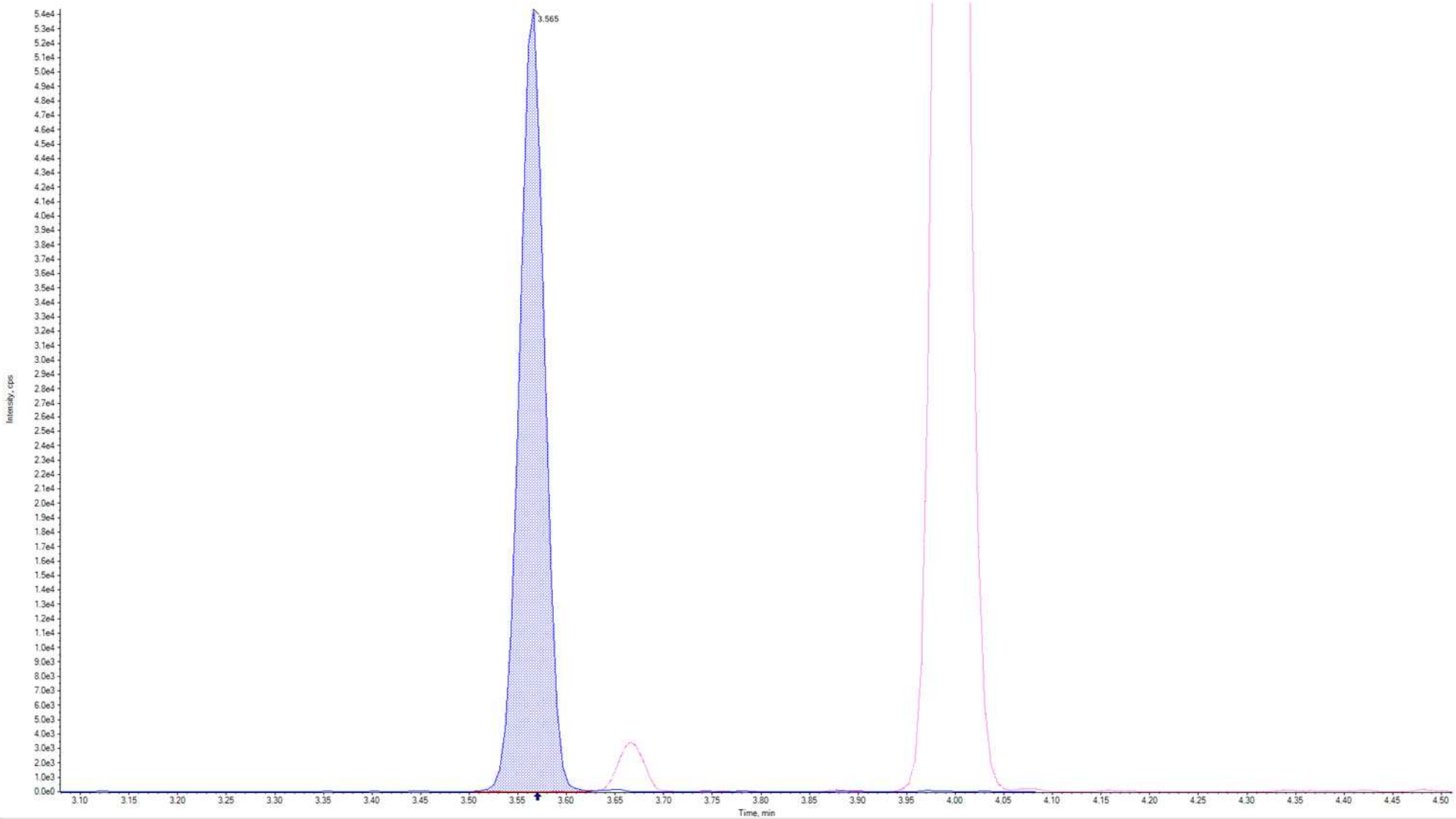
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHpS
Sample: IA1633STD-2.5 S/N:3475.4 Points Across peak:24



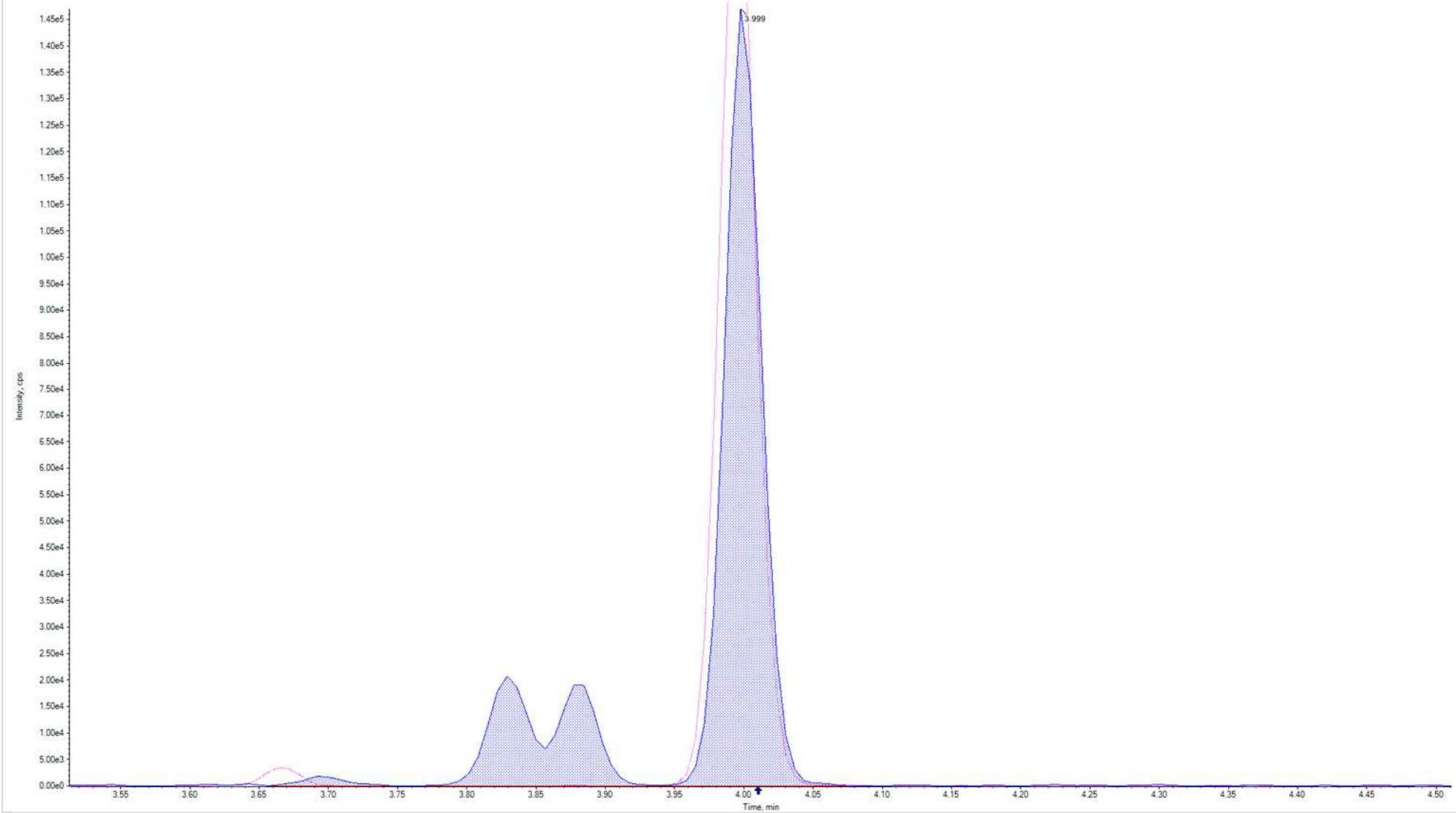
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
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PFHpS_2
Sample: IA1633STD-2.5 S/N:1090.2 Points Across peak:26



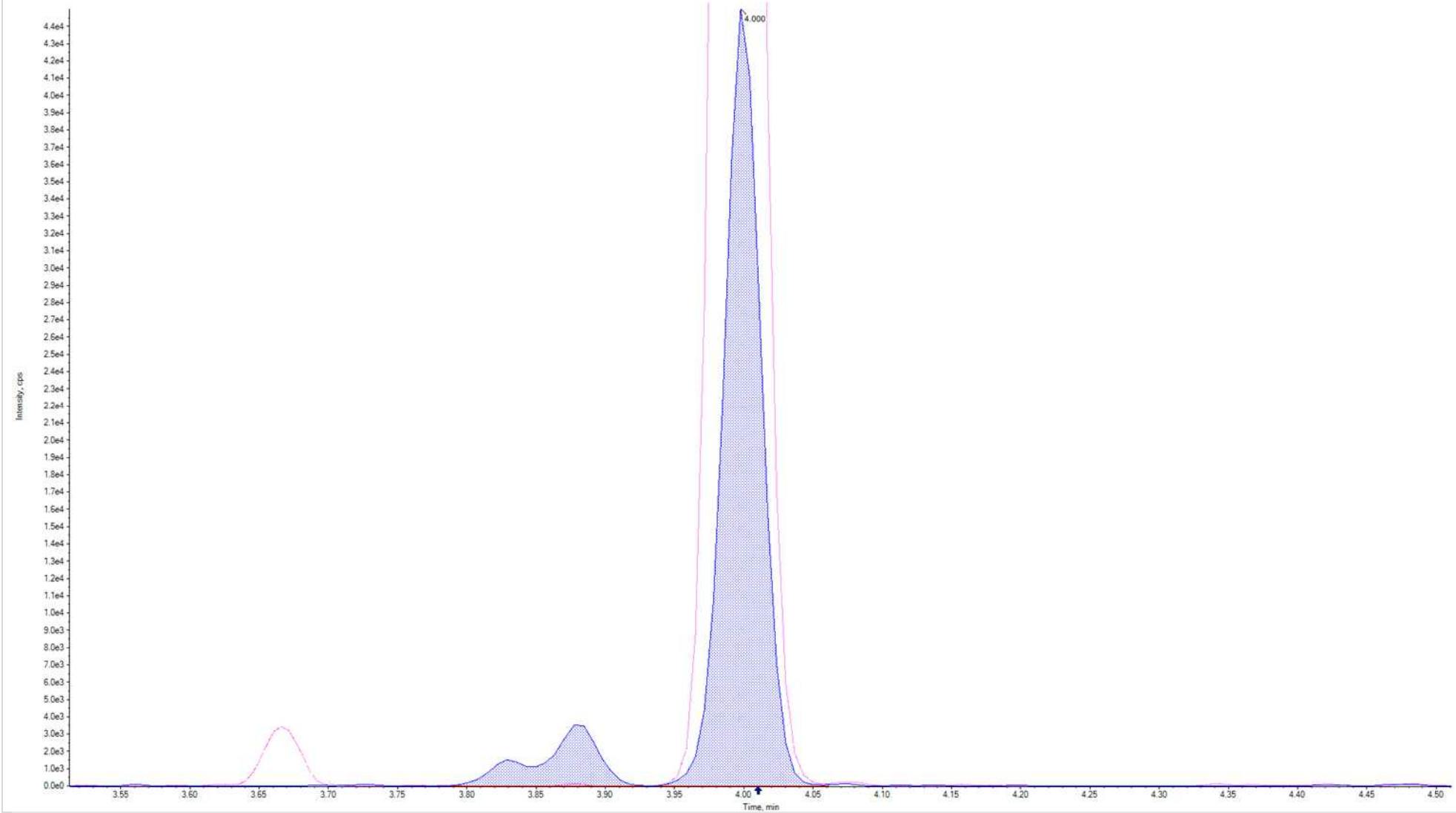
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOS
Sample: IA1633STD-2.5 S/N:530.9 Points Across peak:68



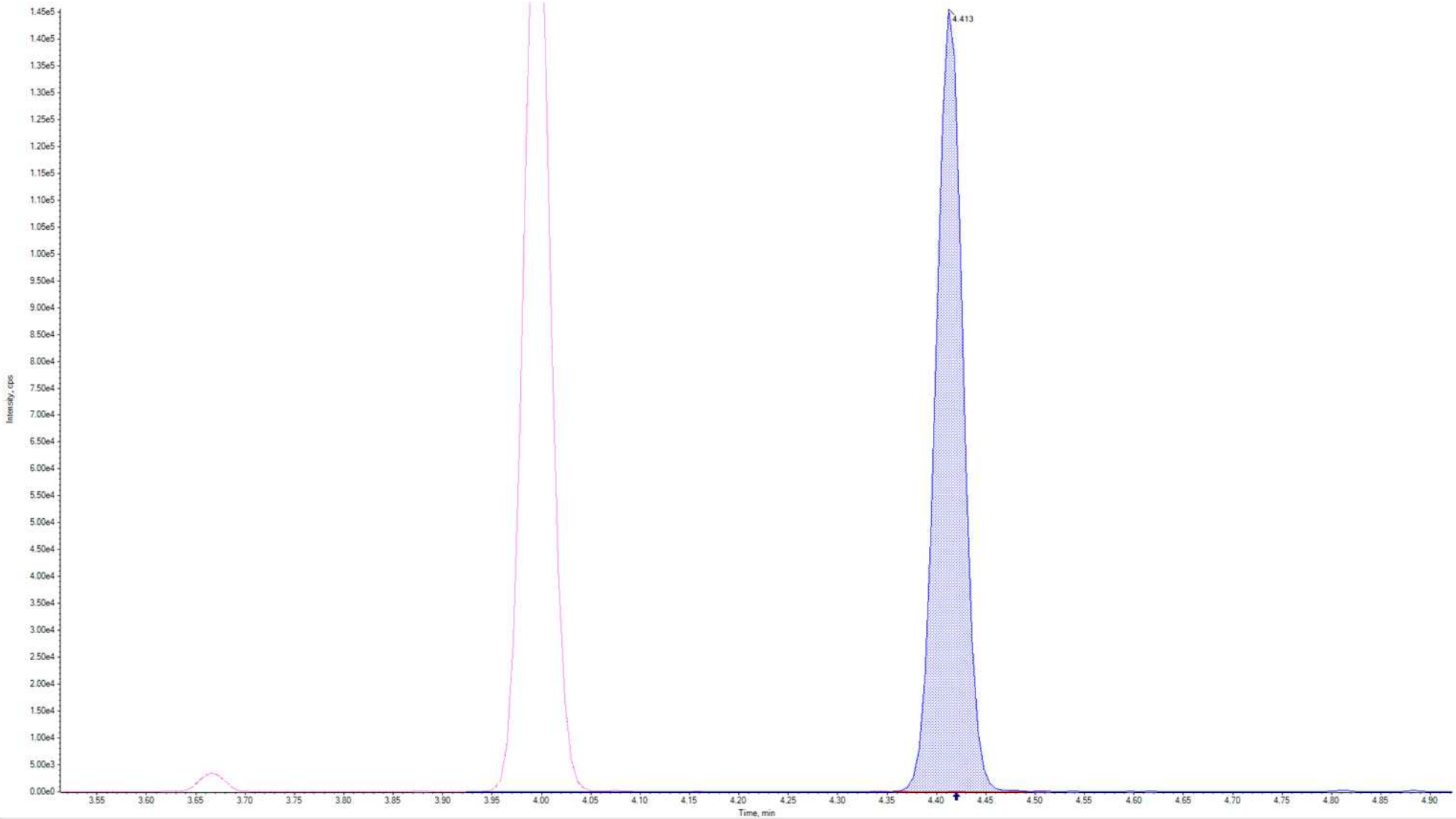
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOS_2
Sample: IA1633STD-2.5 S/N:897.7 Points Across peak:43



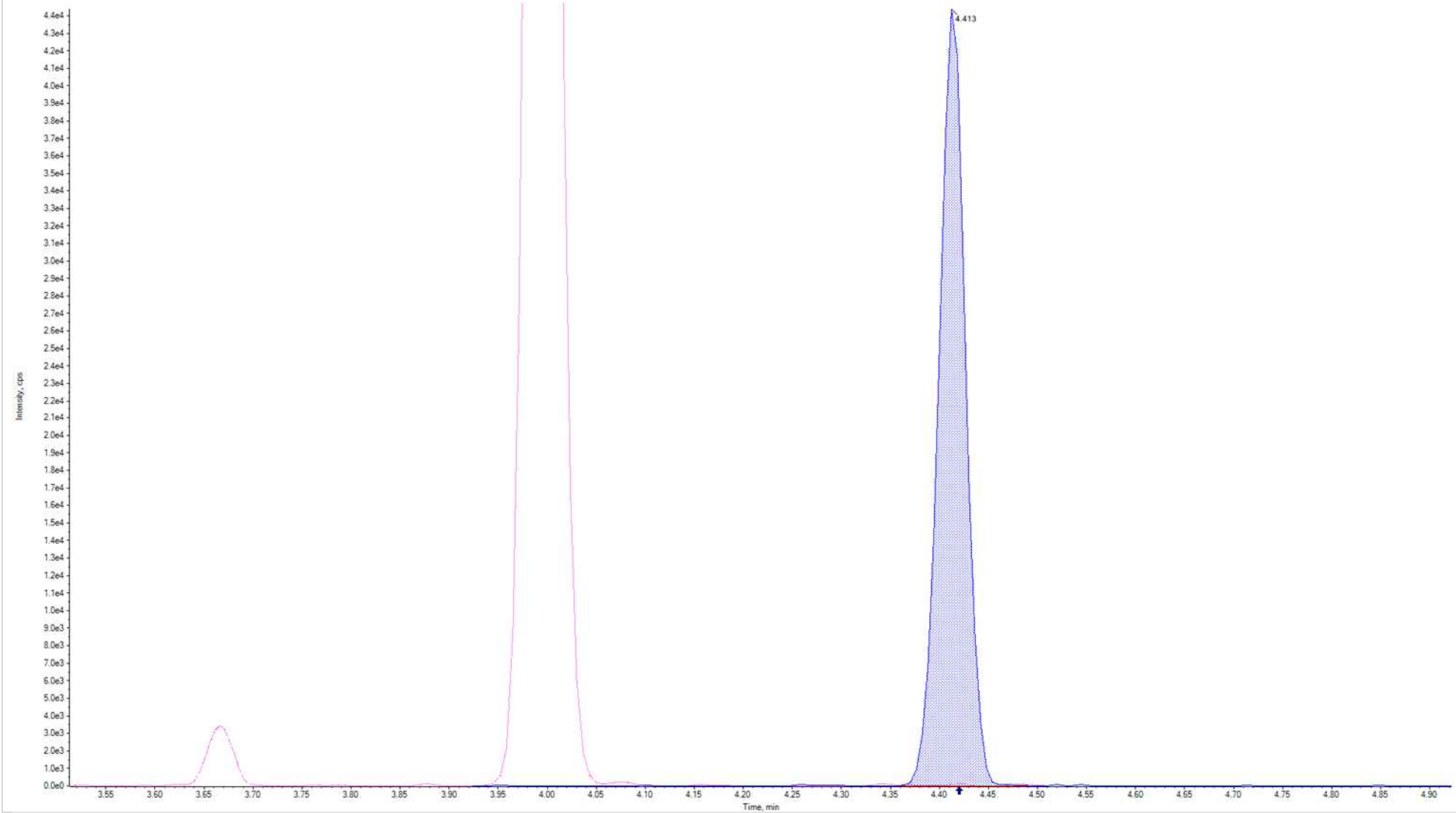
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS
Sample: IA1633STD-2.5 S/N:3269.7 Points Across peak:28



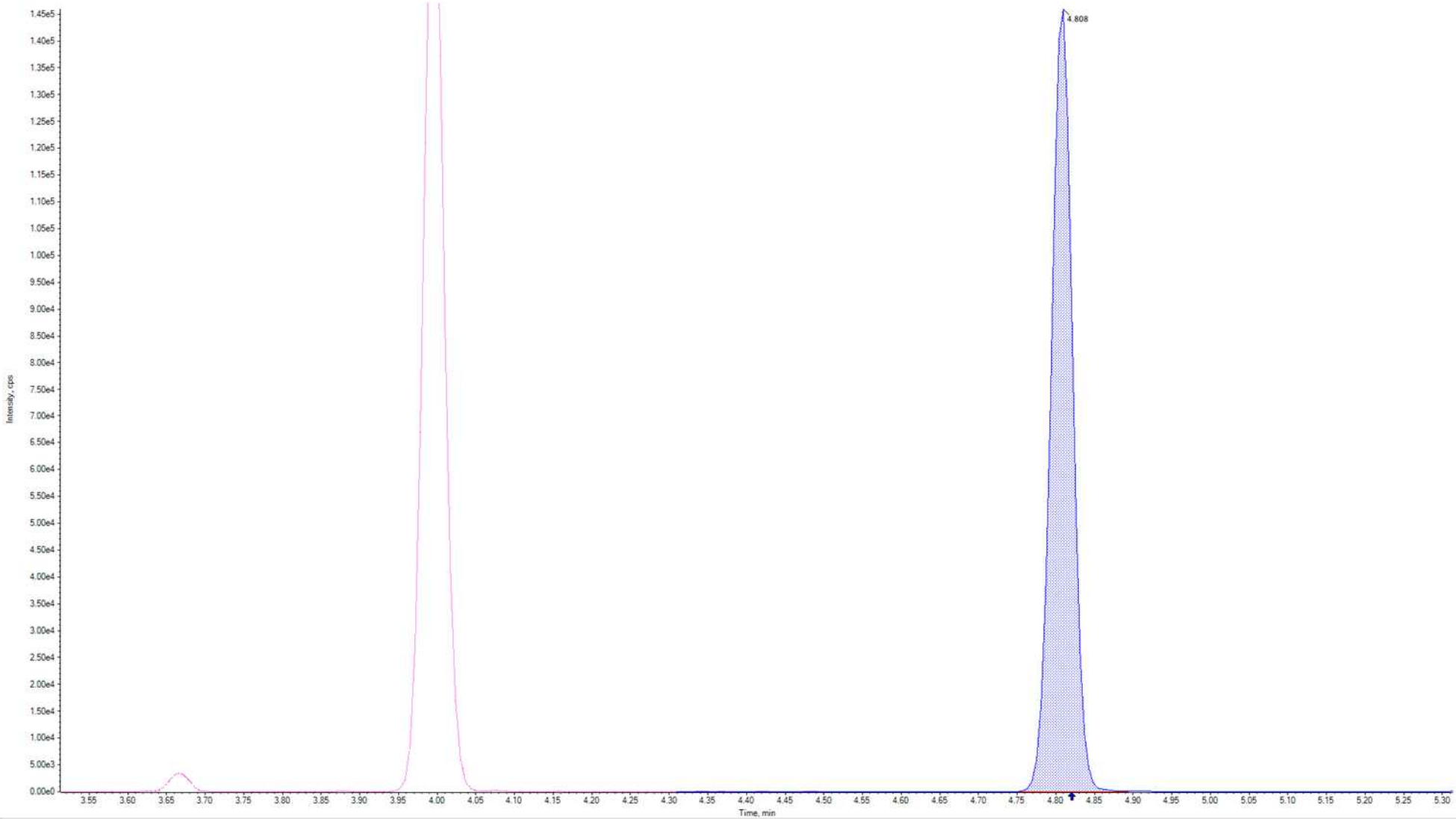
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS_2
Sample: IA1633STD-2.5 S/N:1112.5 Points Across peak:29



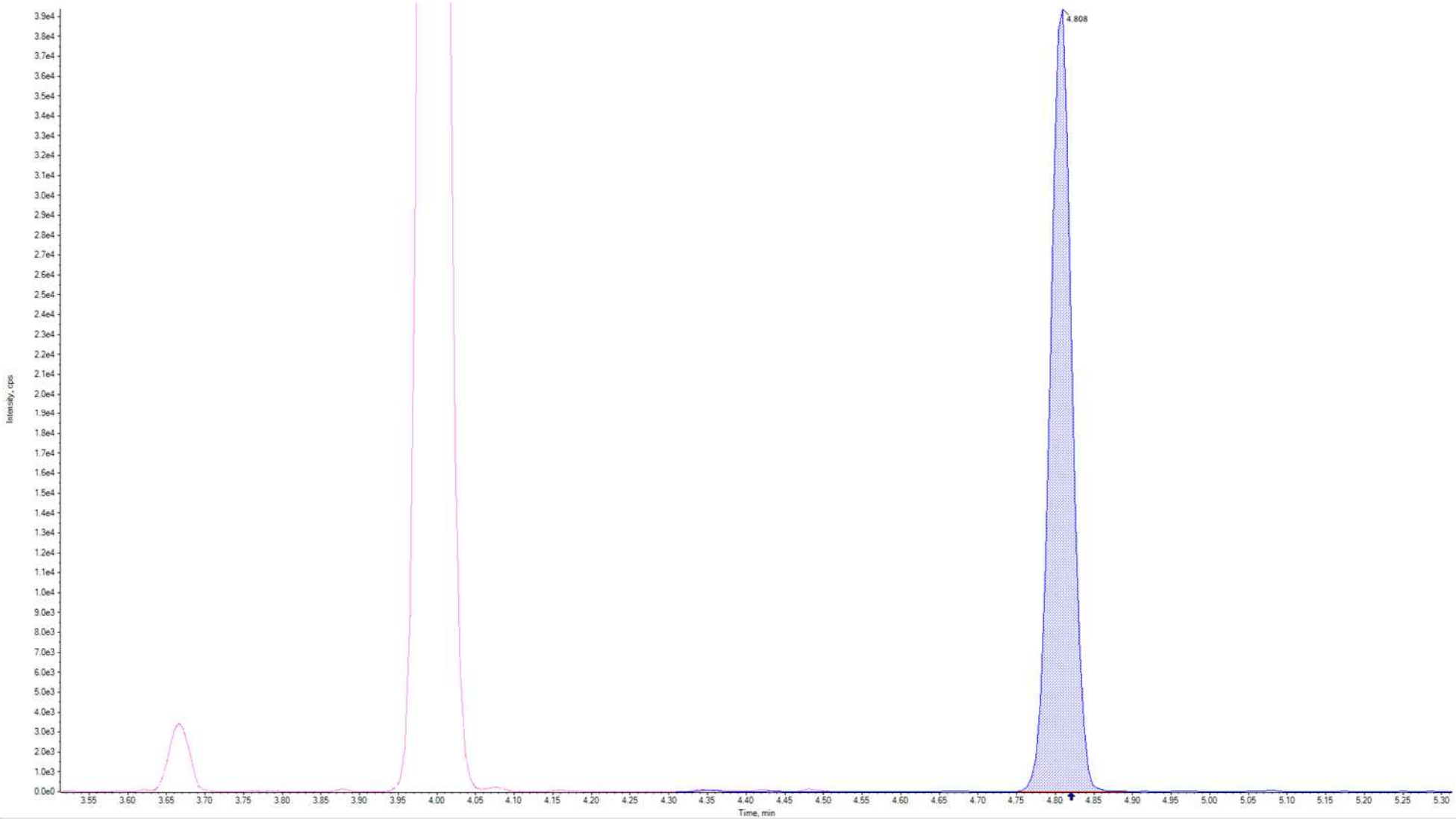
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDS
Sample: IA1633STD-2.5 S/N:5120.8 Points Across peak:29



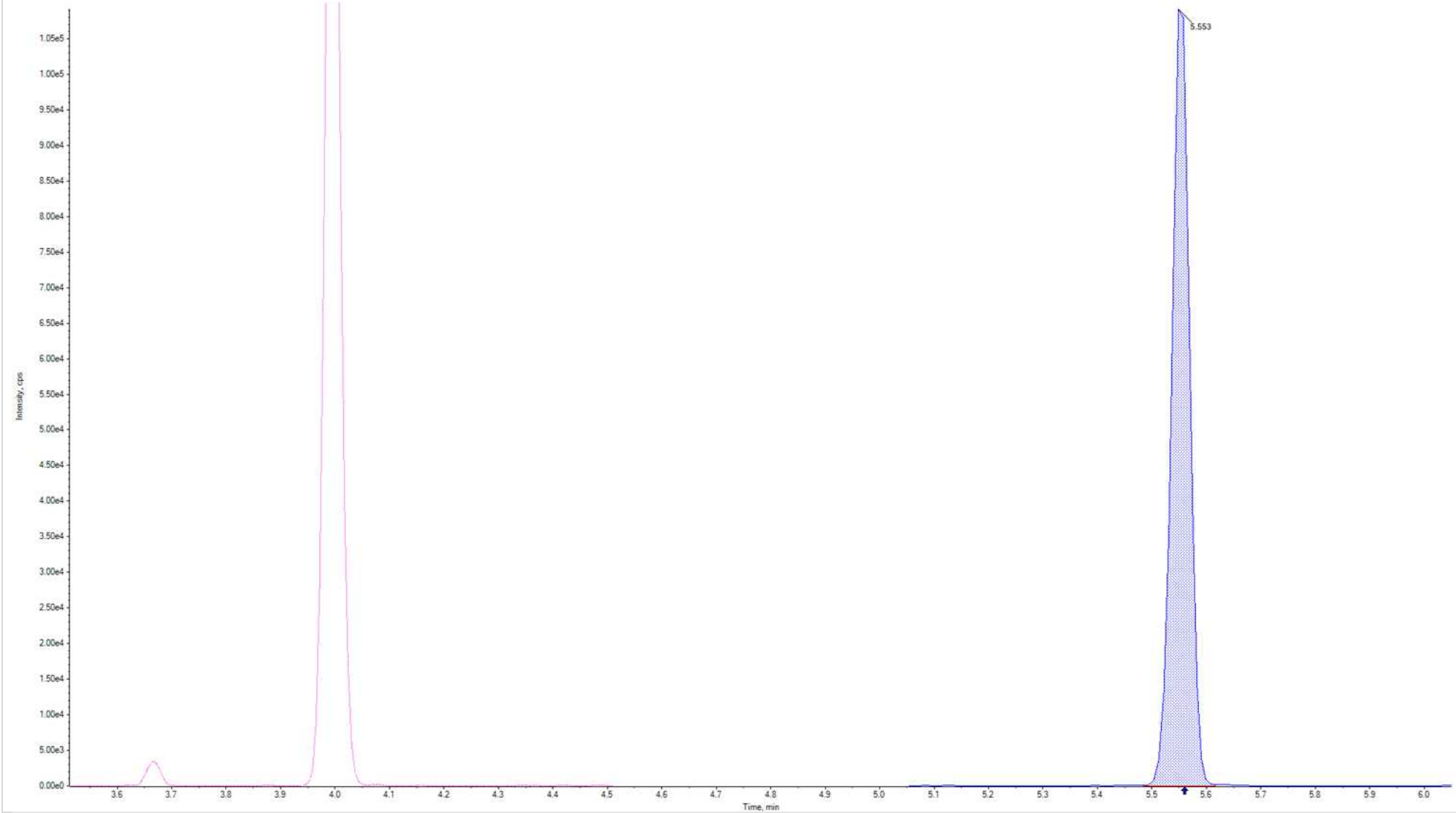
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDS_2
Sample: IA1633STD-2.5 S/N:1381.4 Points Across peak:29



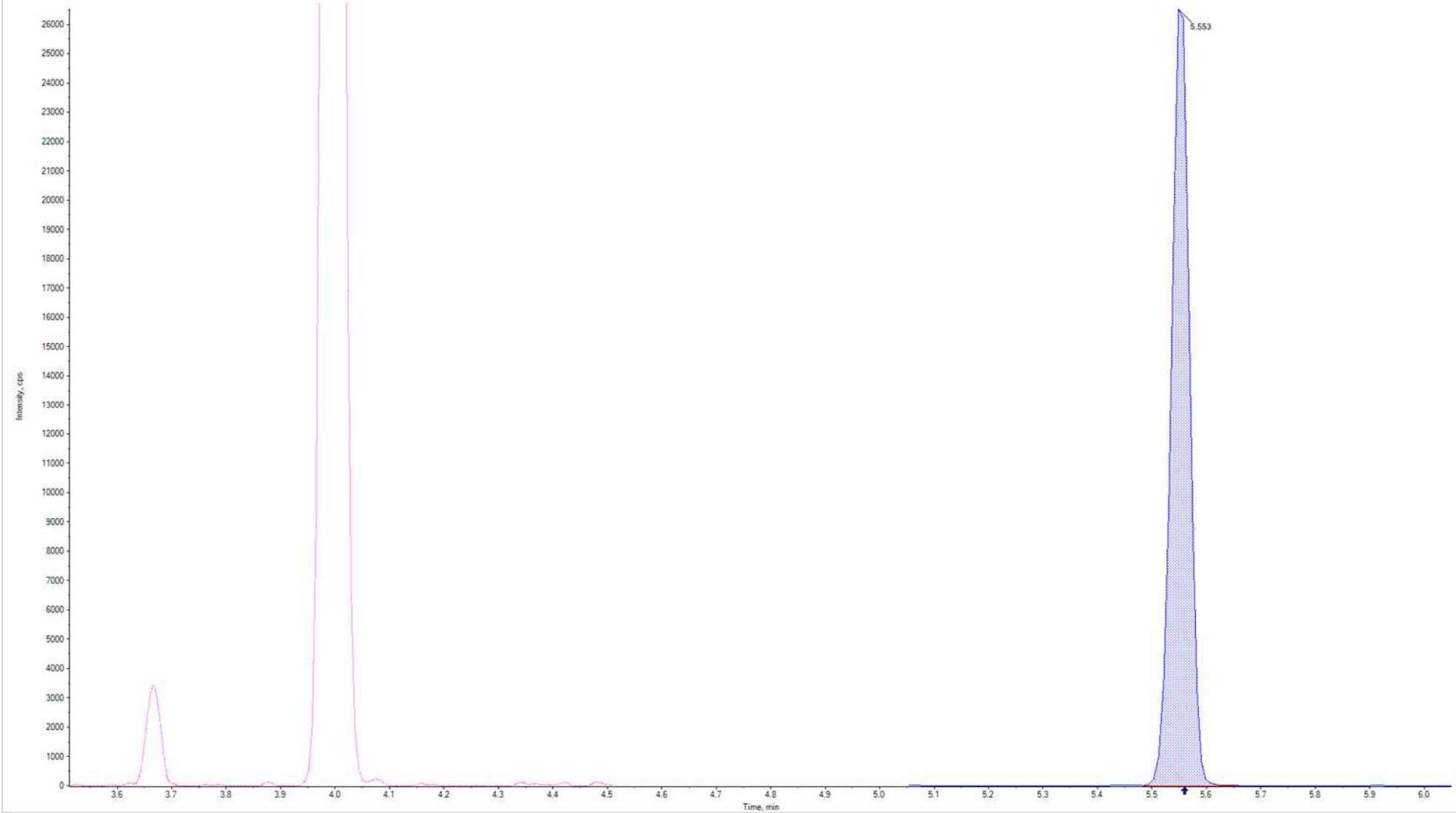
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDoS
Sample: IA1633STD-2.5 S/N:4770.9 Points Across peak:16



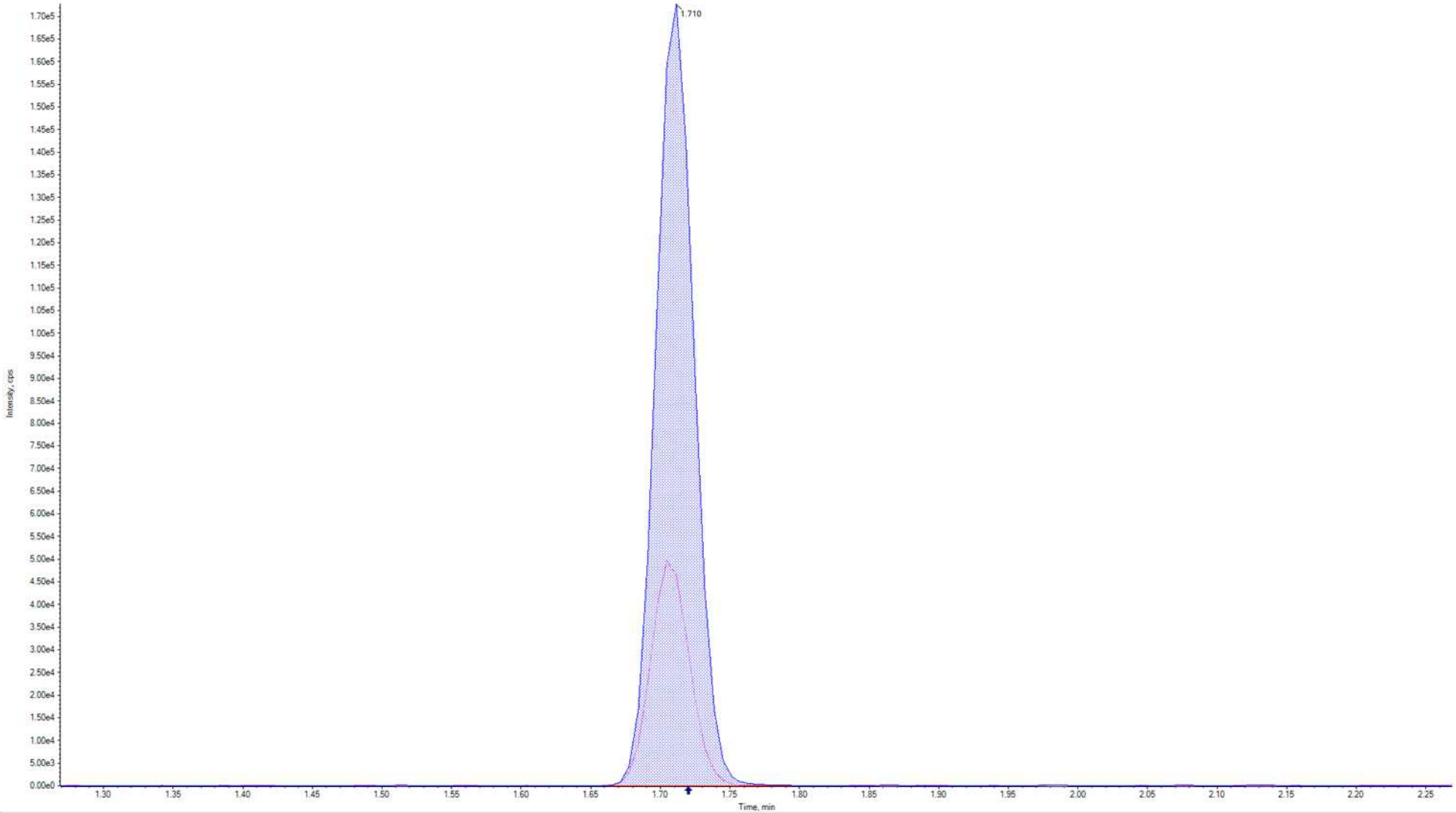
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDoS_2
Sample: IA1633STD-2.5 S/N:1684.2 Points Across peak:25



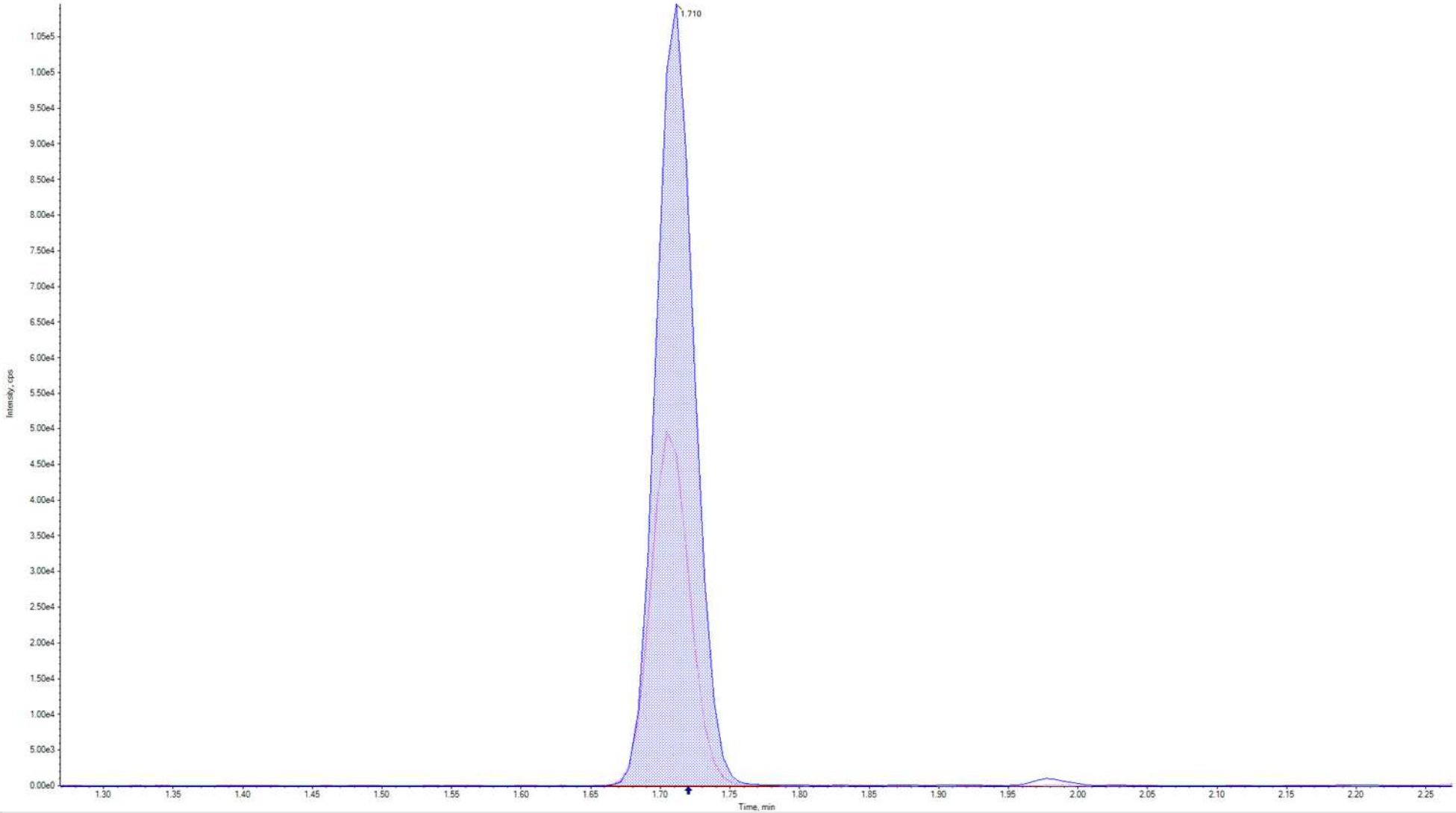
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

4:2FTS
Sample: IA1633STD-2.5 S/N:6495.9 Points Across peak:28



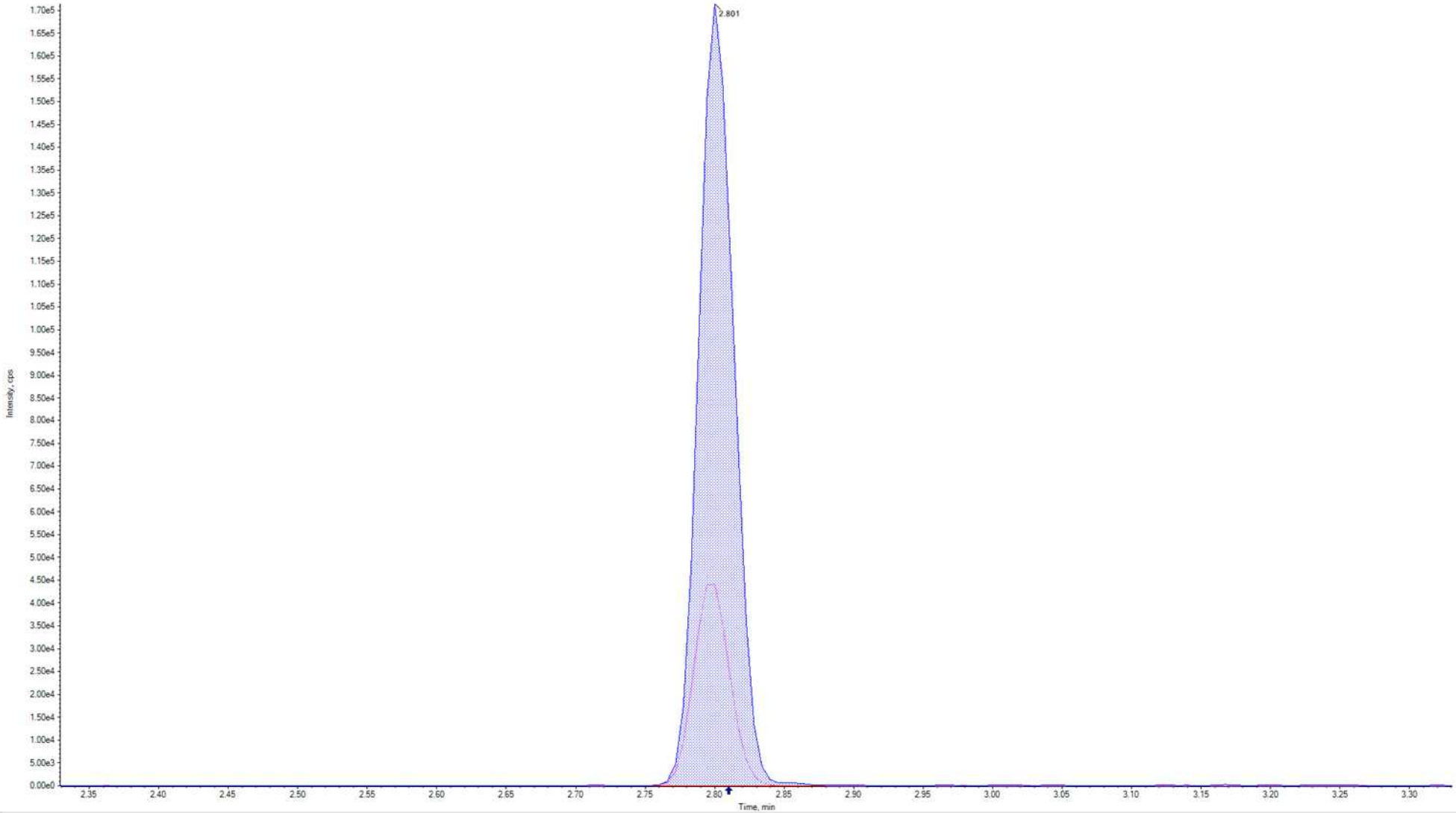
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

4:2FTS_2
Sample: IA1633STD-2.5 S/N:3459.3 Points Across peak:22



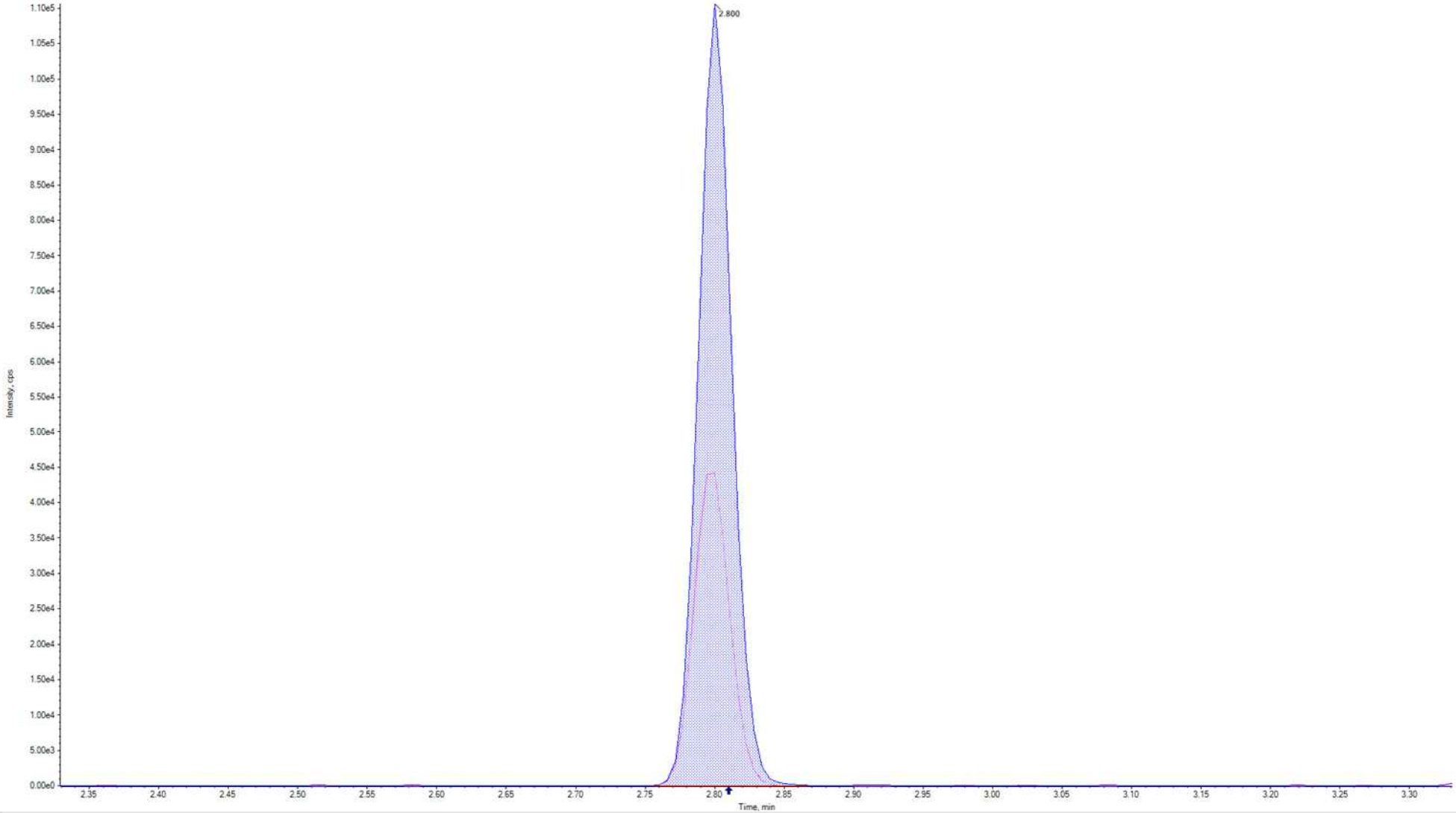
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

6:2FTS
Sample: IA1633STD-2.5 S/N:3053.3 Points Across peak:25



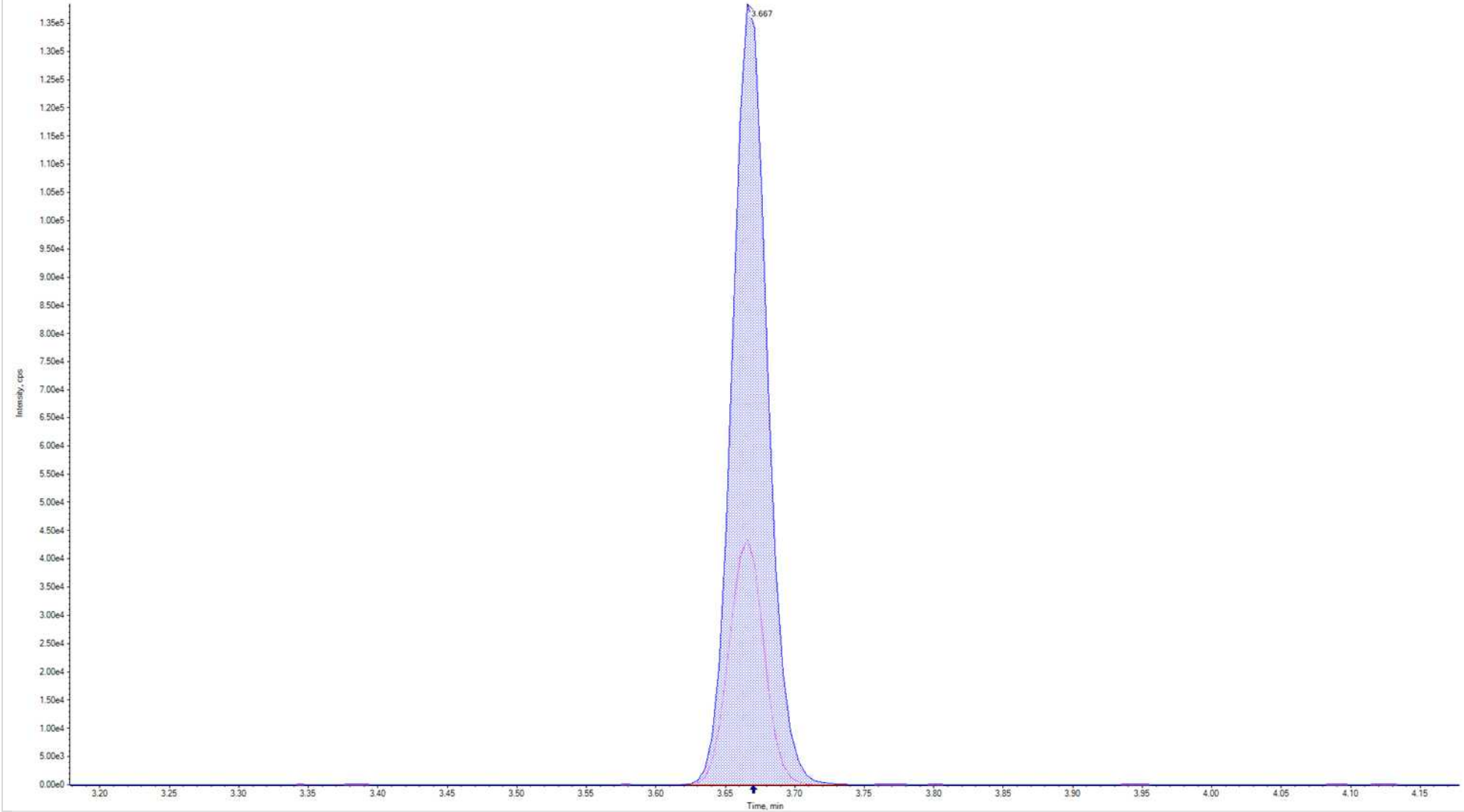
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

6:2FTS_2
Sample: IA1633STD-2.5 S/N:2218.1 Points Across peak:25



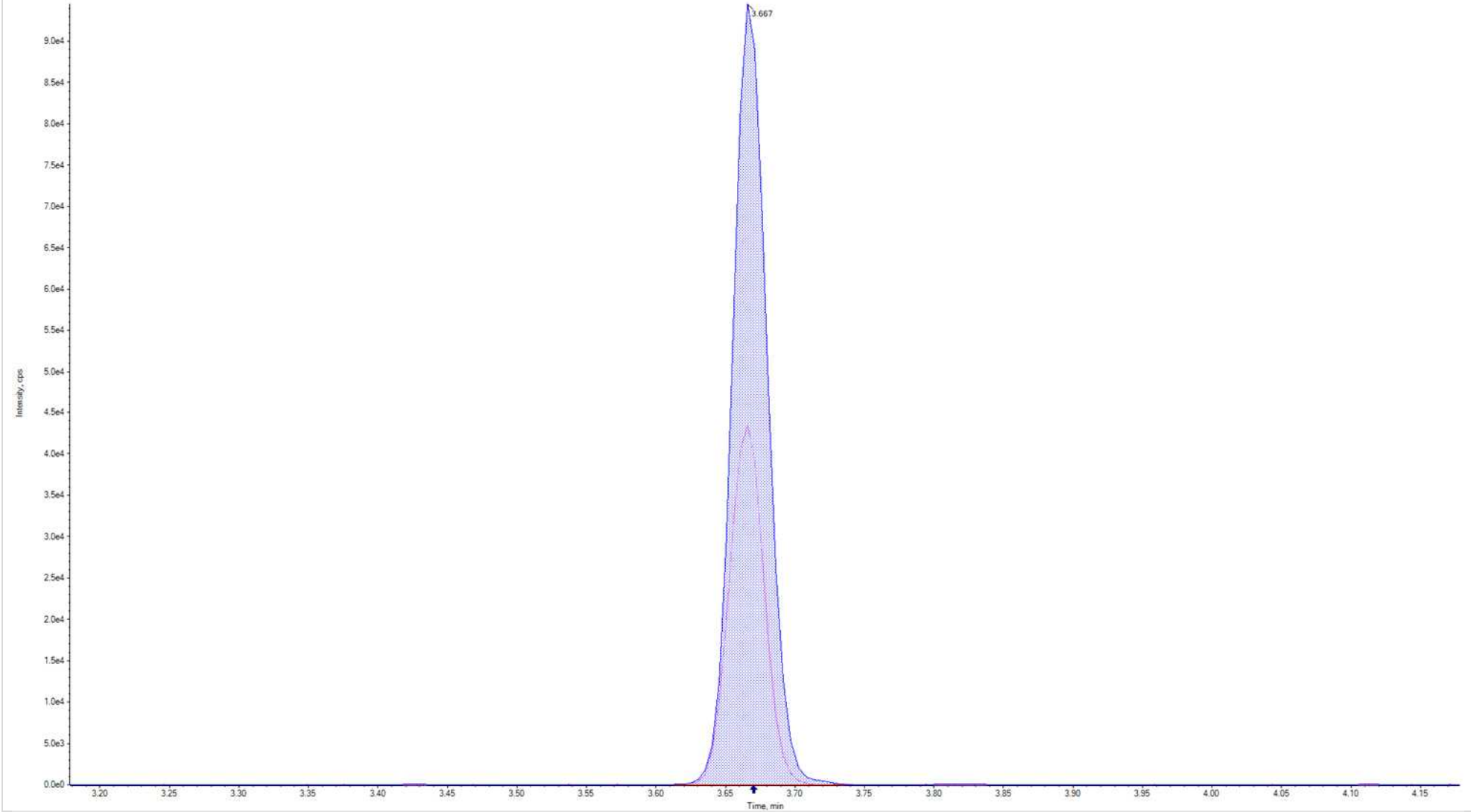
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

8:2FTS
Sample: IA1633STD-2.5 S/N:2775.5 Points Across peak:28



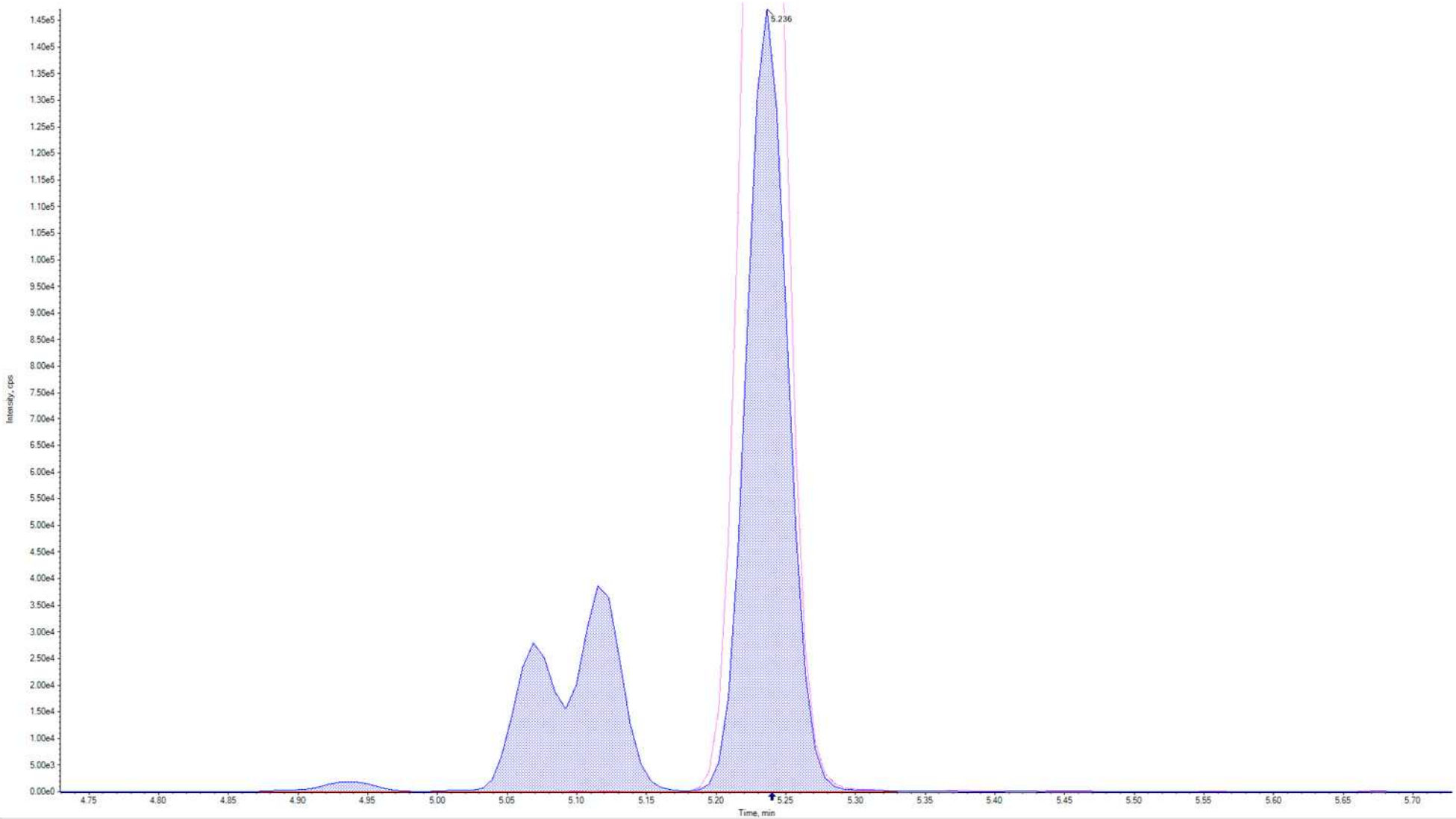
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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8:2FTS_2
Sample: IA1633STD-2.5 S/N:1895.3 Points Across peak:27



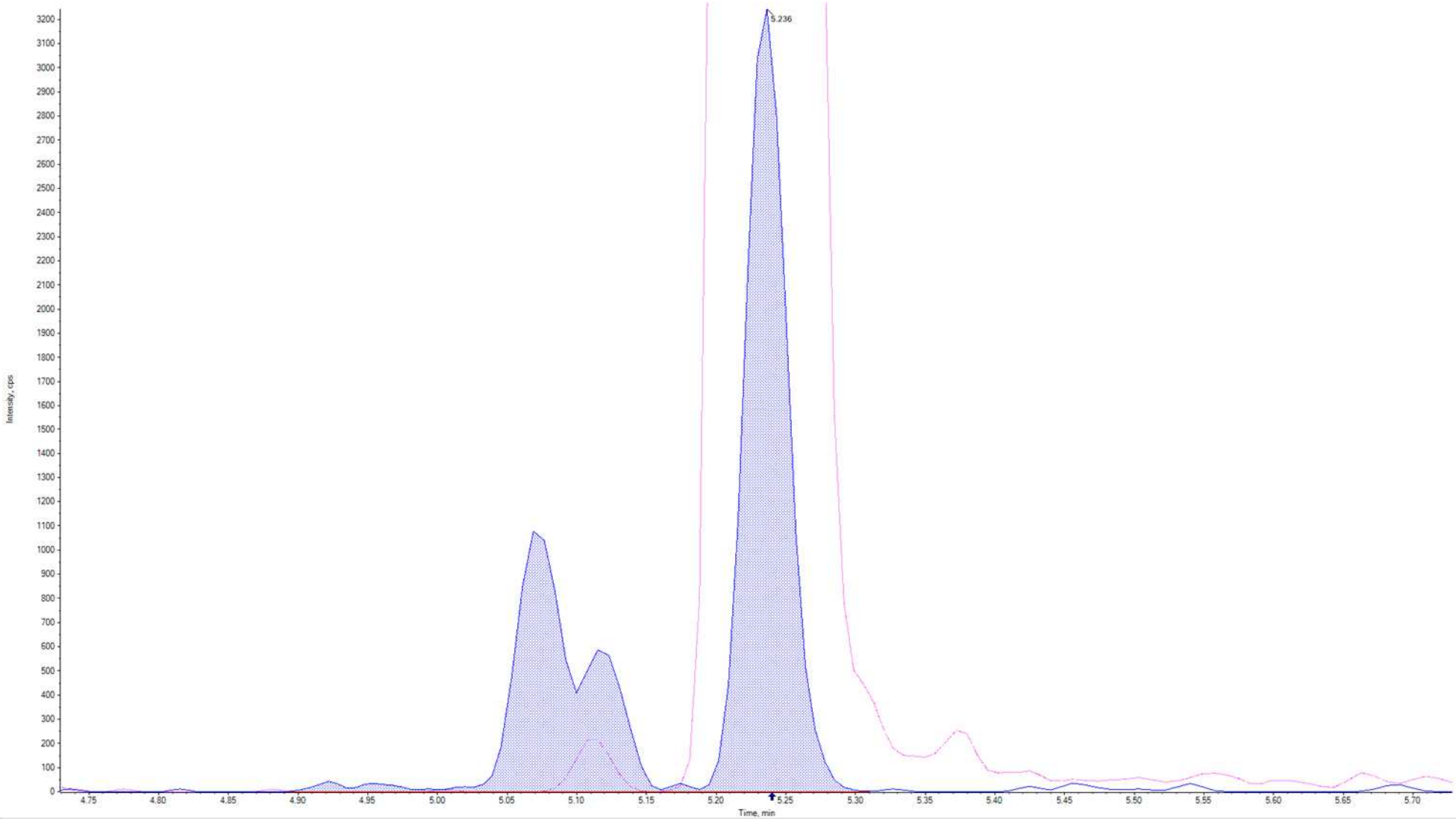
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOSA
Sample: IA1633STD-2.5 S/N:369.5 Points Across peak:73



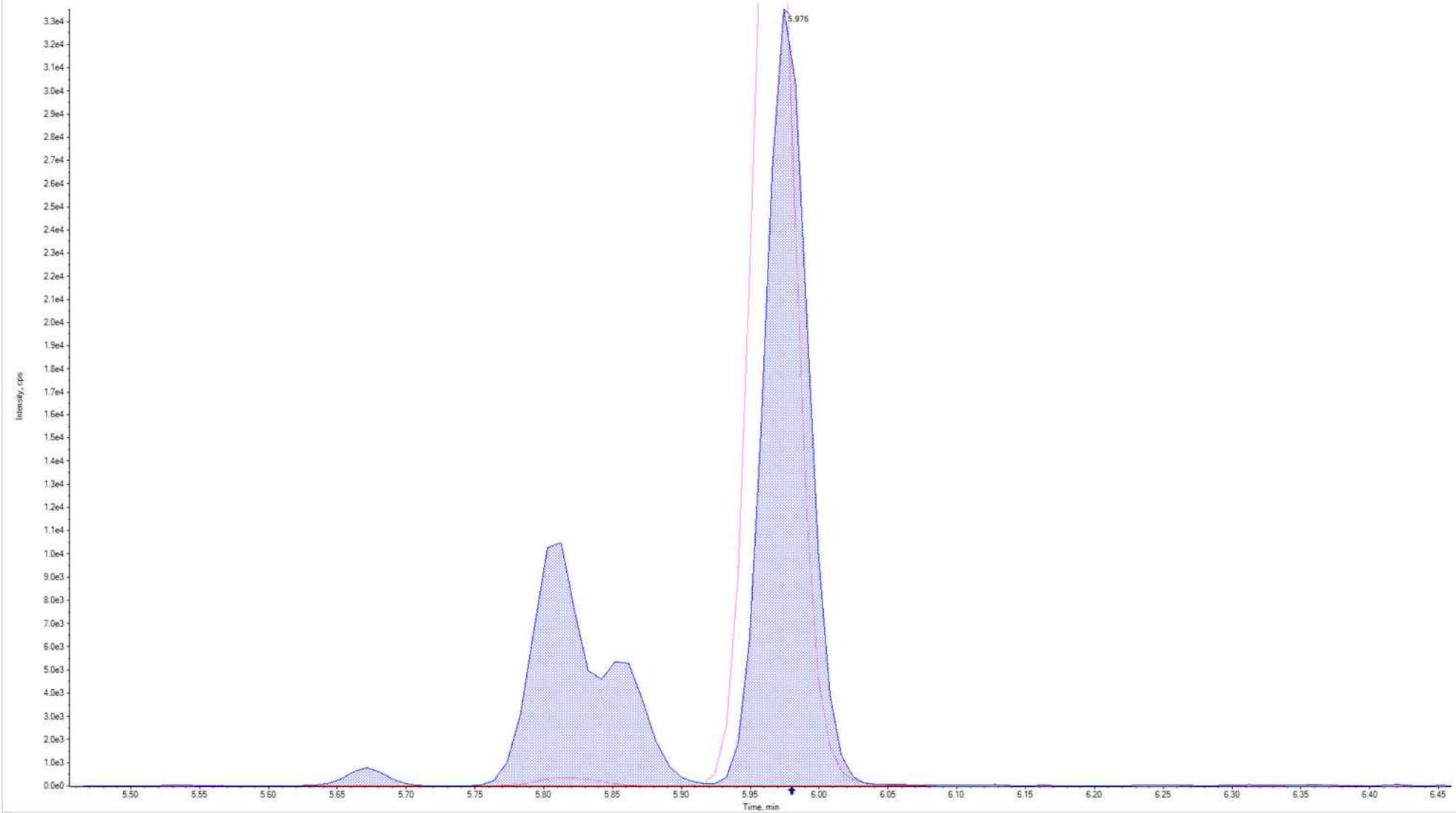
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOSA_2
Sample: IA1633STD-2.5 S/N:192.3 Points Across peak:62



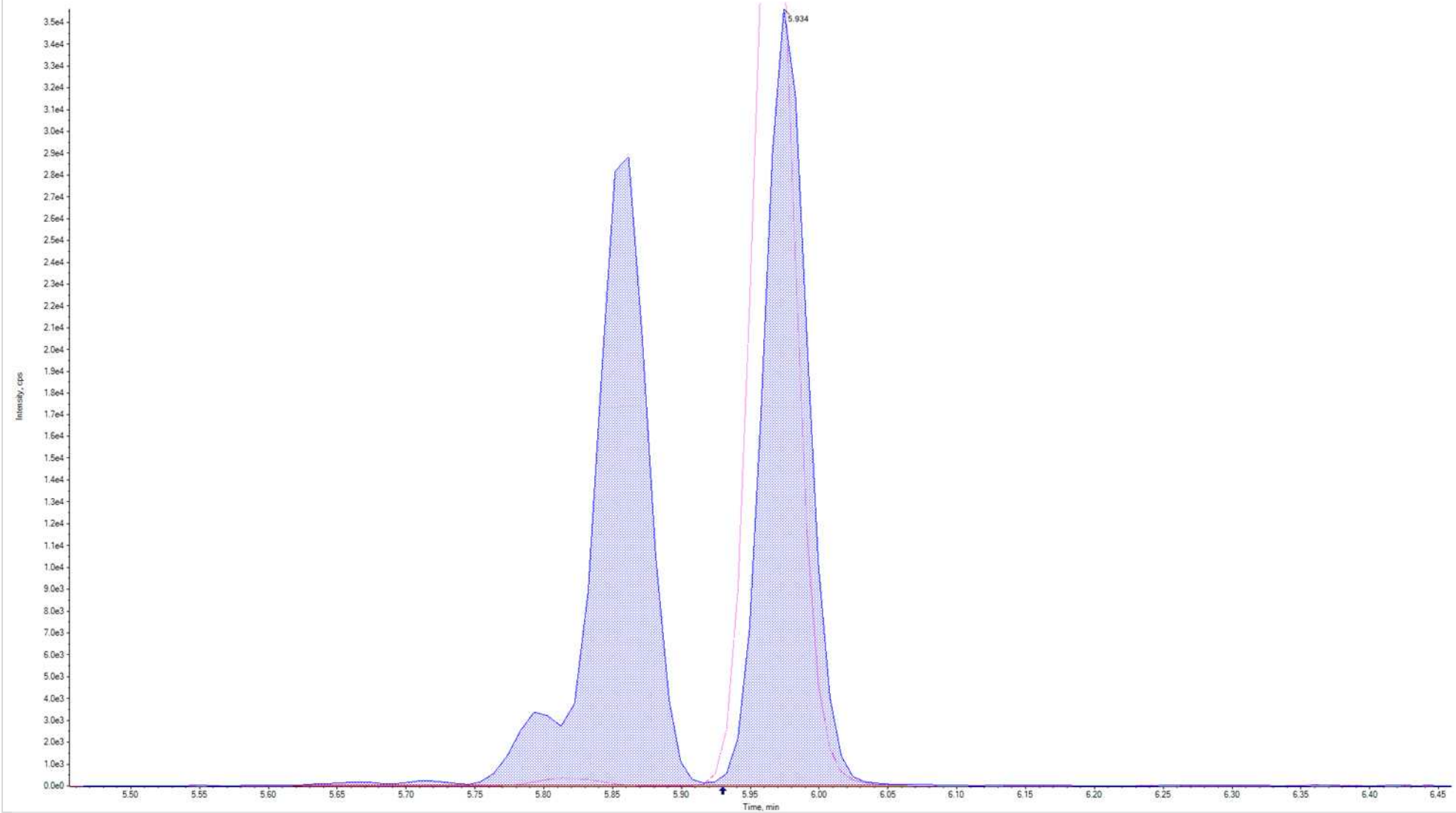
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSA
Sample: IA1633STD-2.5 S/N:465.0 Points Across peak:54



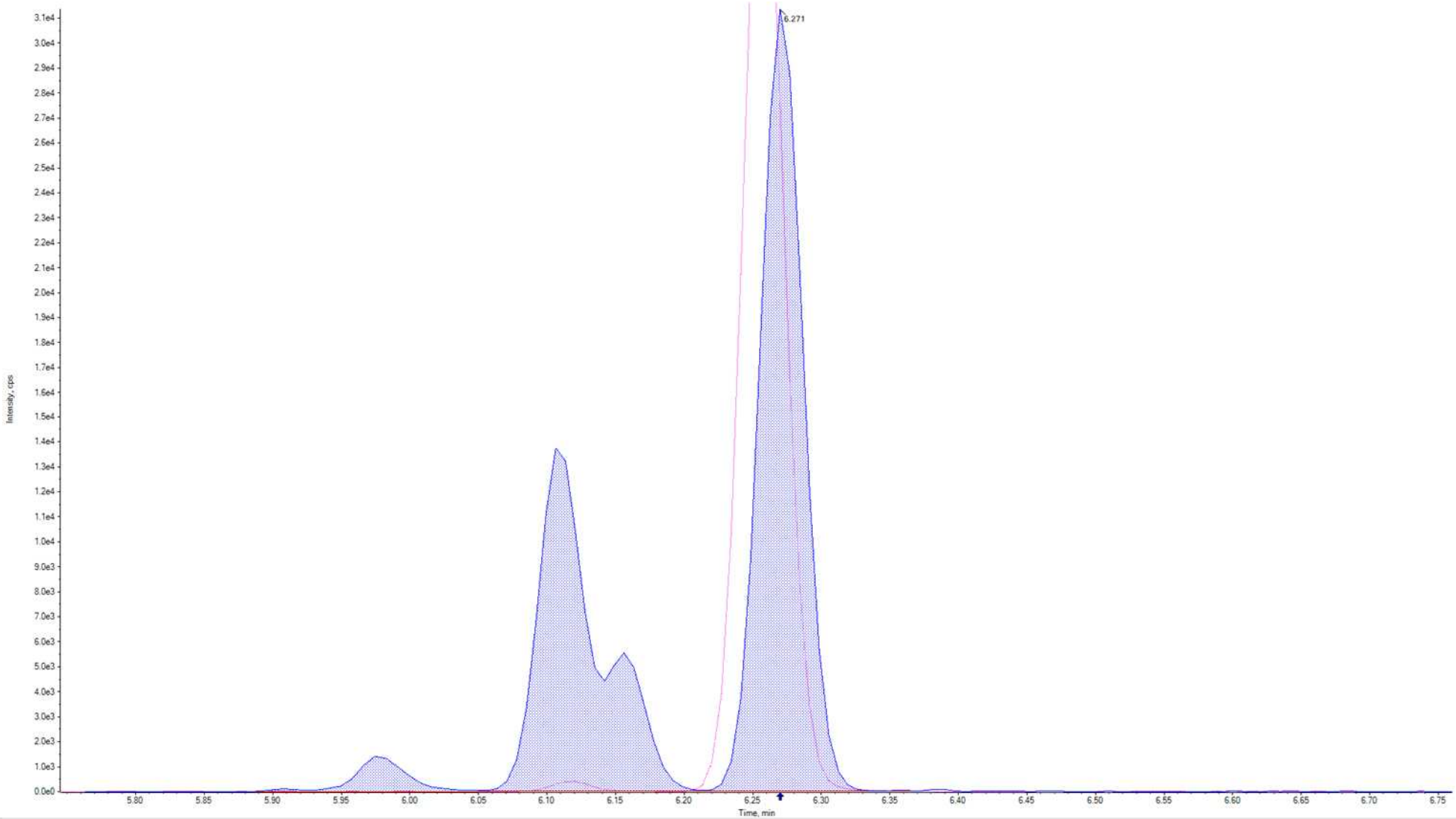
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSA_2
Sample: IA1633STD-2.5 S/N:264.9 Points Across peak:51



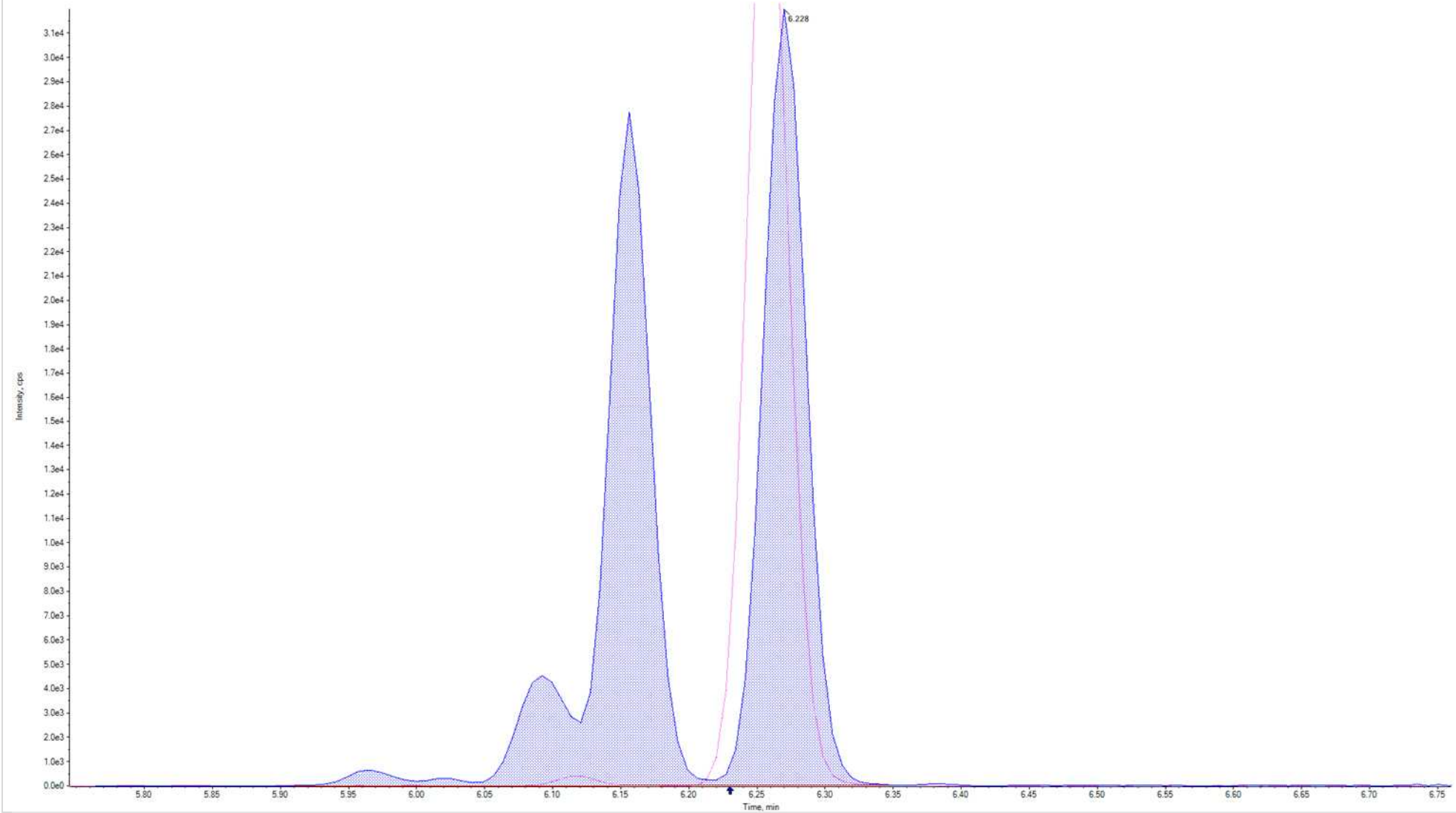
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSA
Sample: IA1633STD-2.5 S/N:670.9 Points Across peak:68



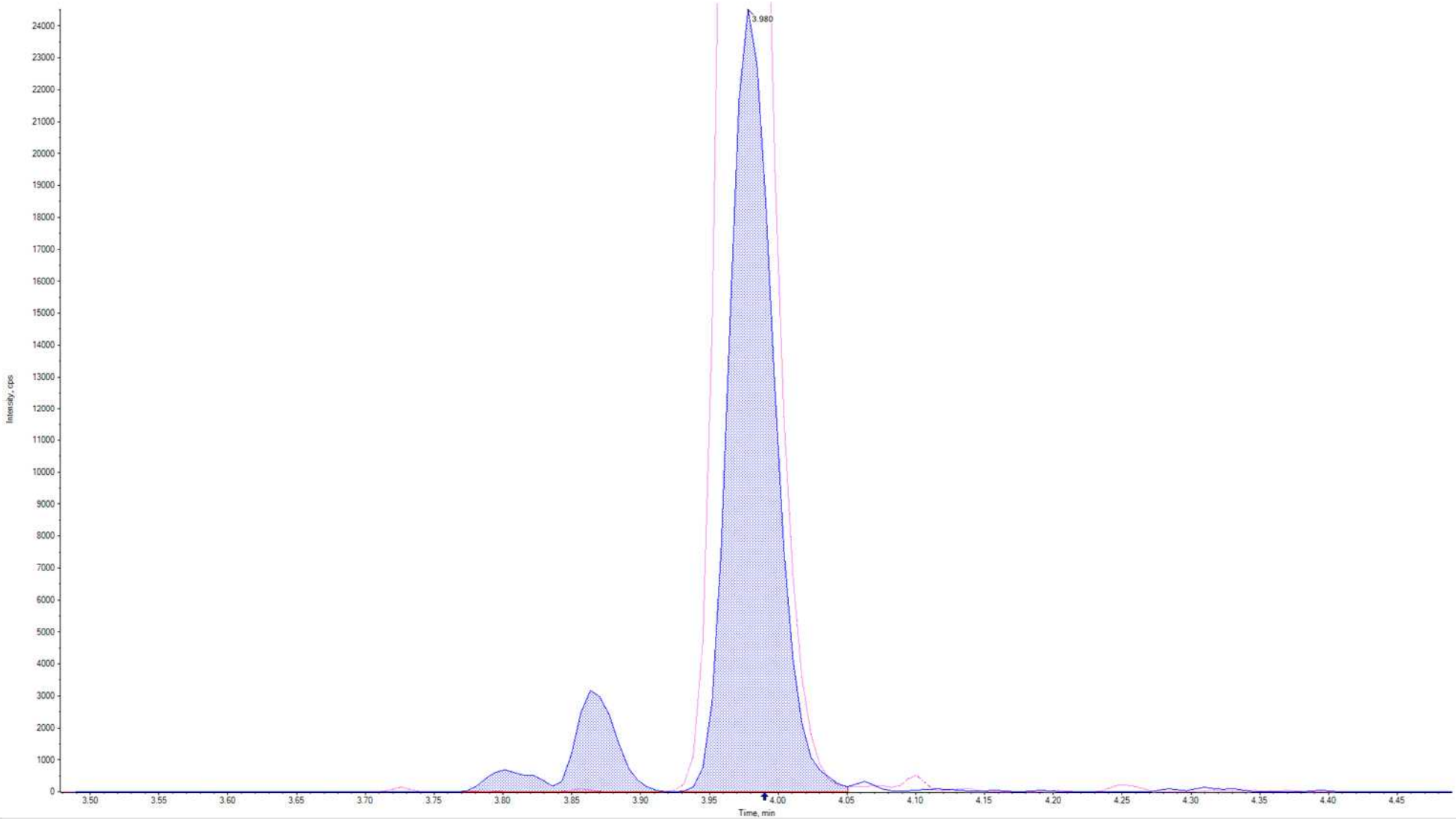
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSA_2
Sample: IA1633STD-2.5 S/N:523.9 Points Across peak:64



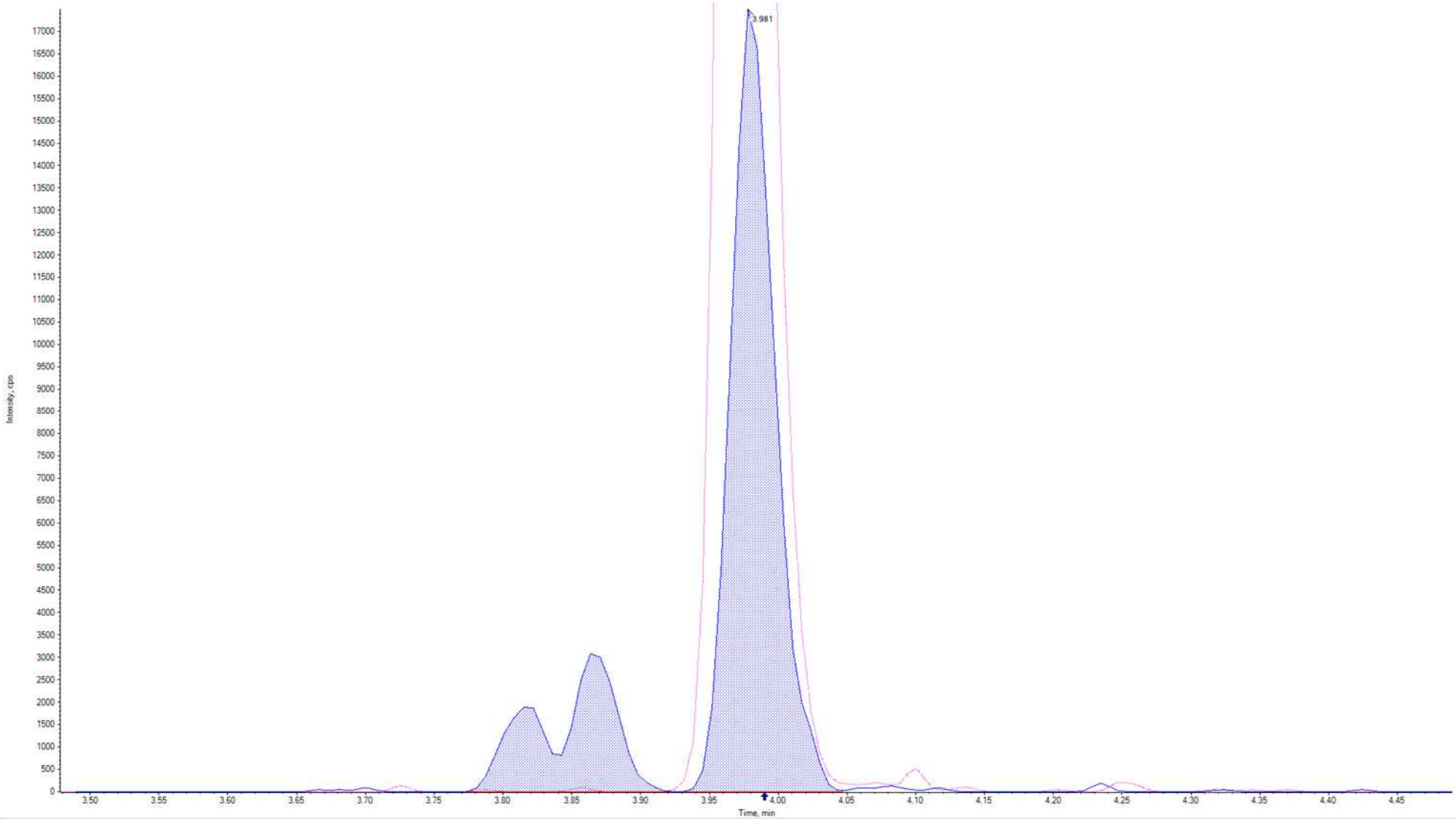
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSAA
Sample: IA1633STD-2.5 S/N:429.4 Points Across peak:45



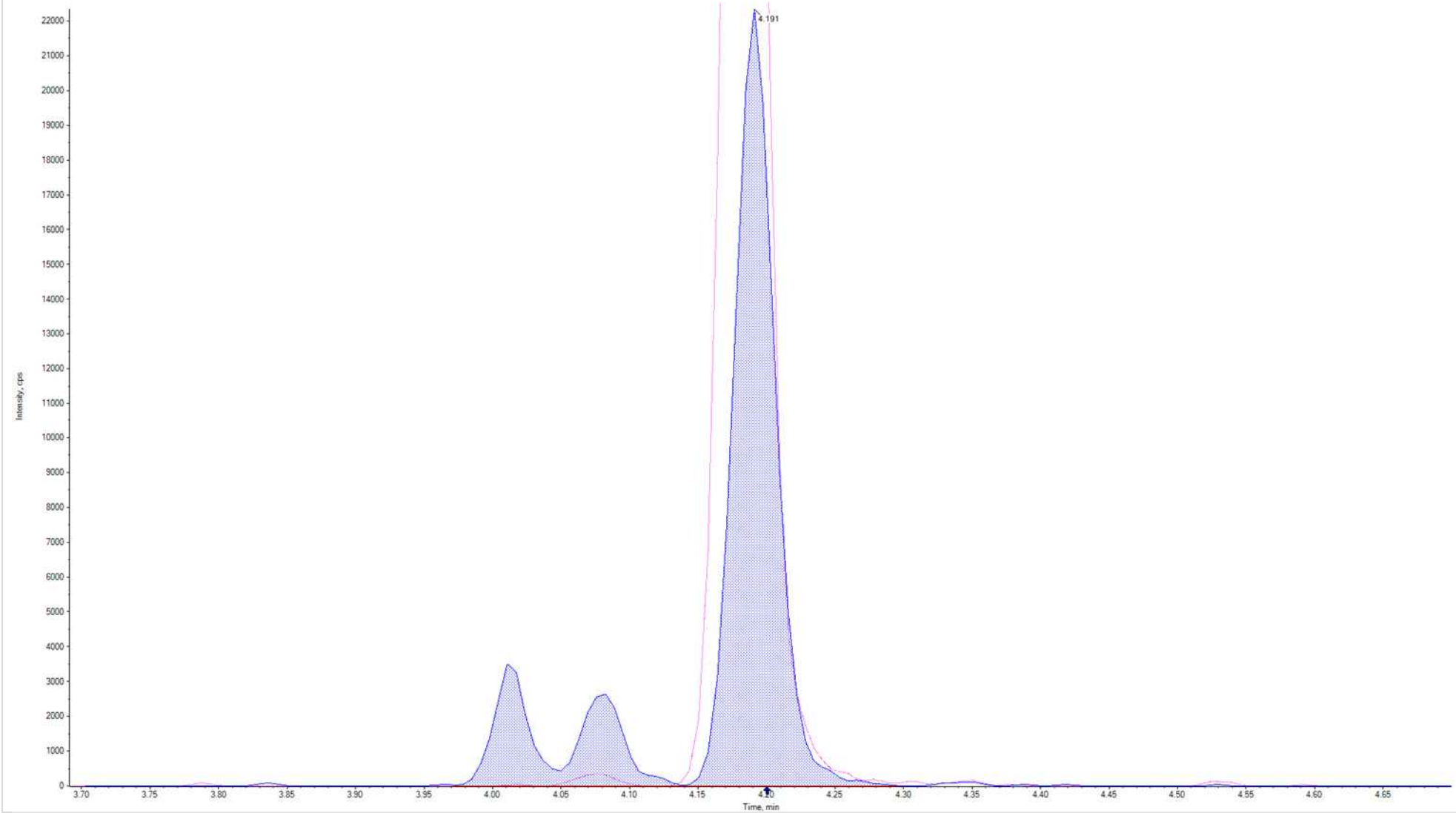
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSAA_2
Sample: IA1633STD-2.5 S/N:345.5 Points Across peak:44



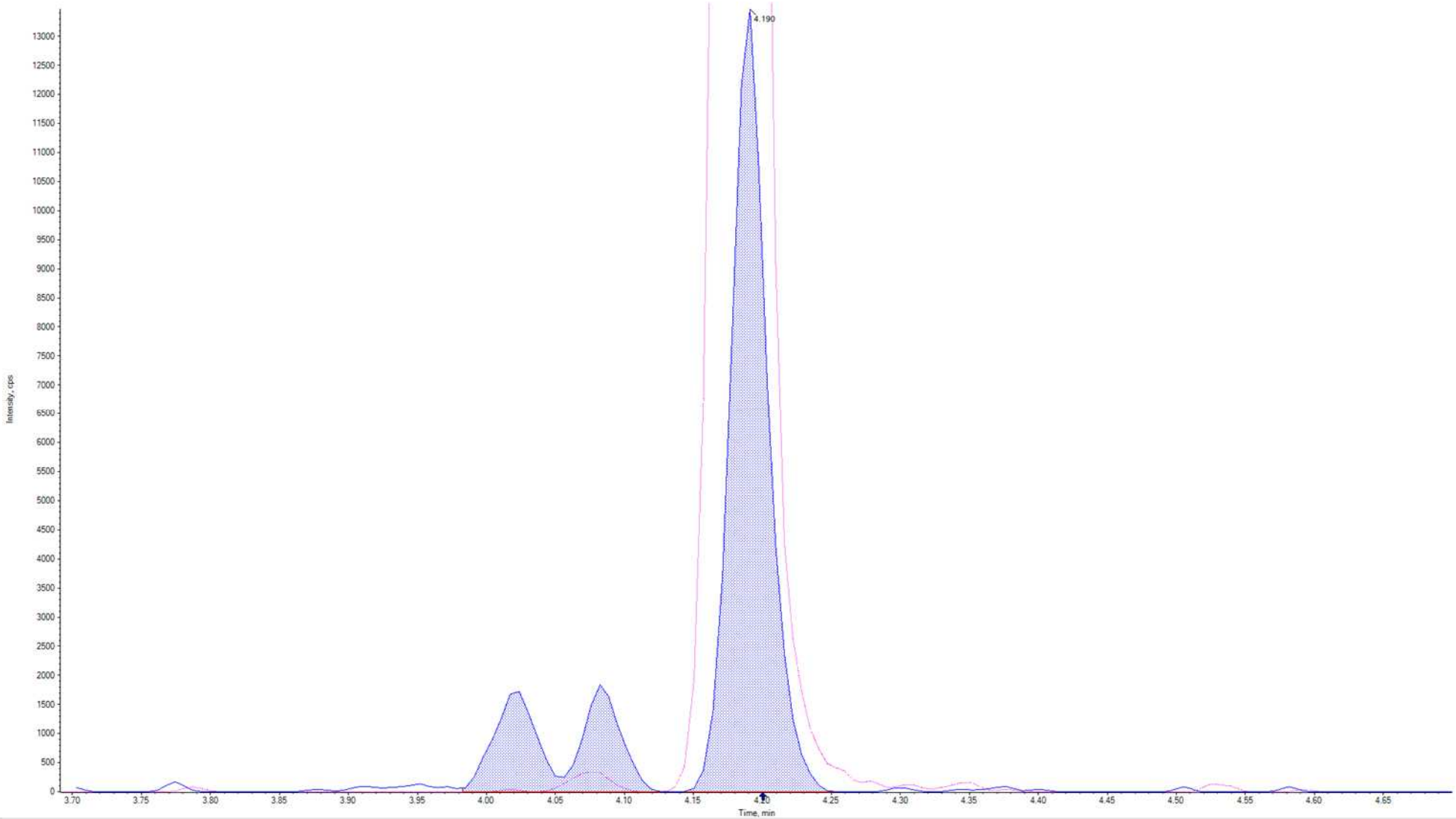
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSAA
Sample: IA1633STD-2.5 S/N:461.7 Points Across peak:53



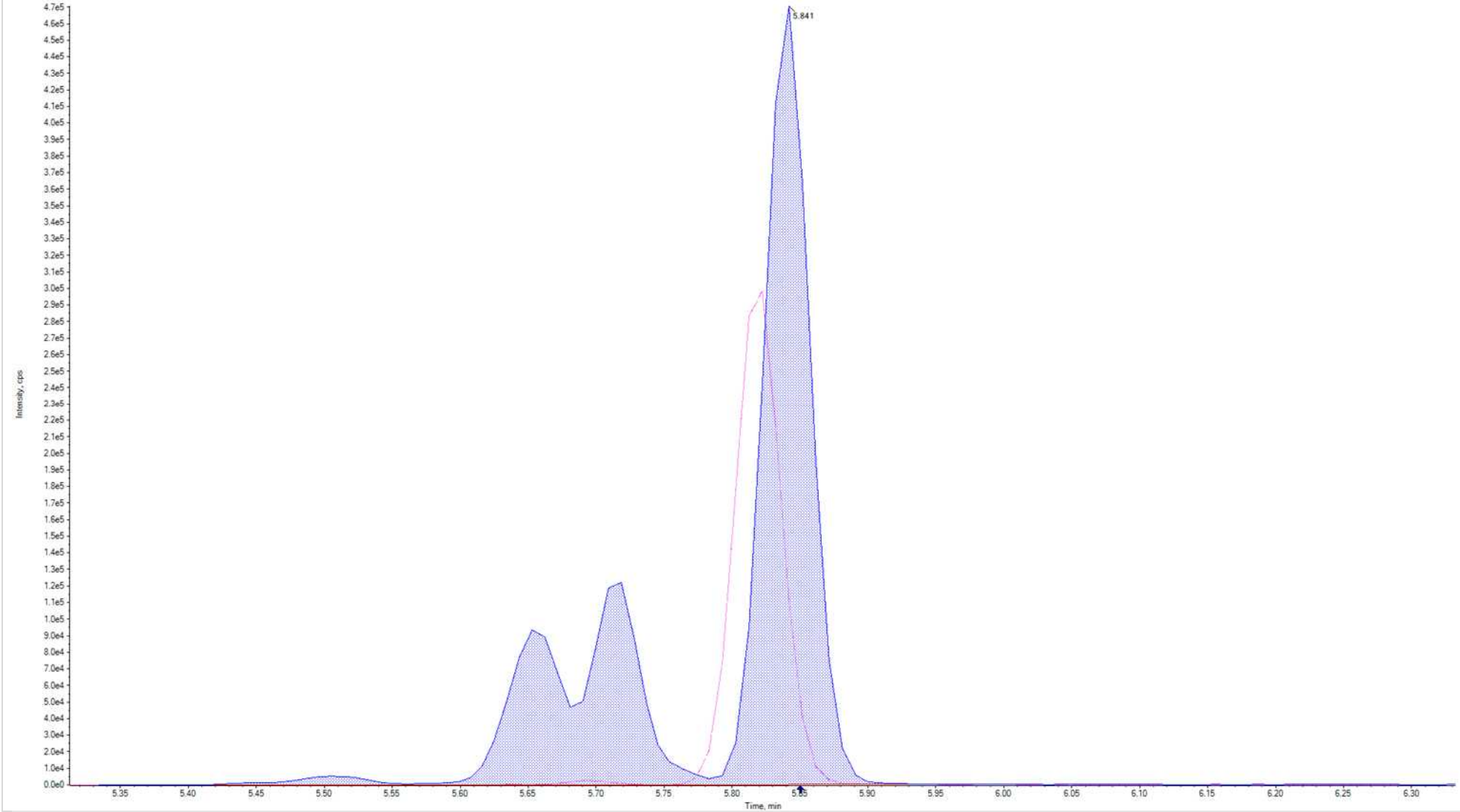
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSAA_2
Sample: IA1633STD-2.5 S/N:286.5 Points Across peak:45



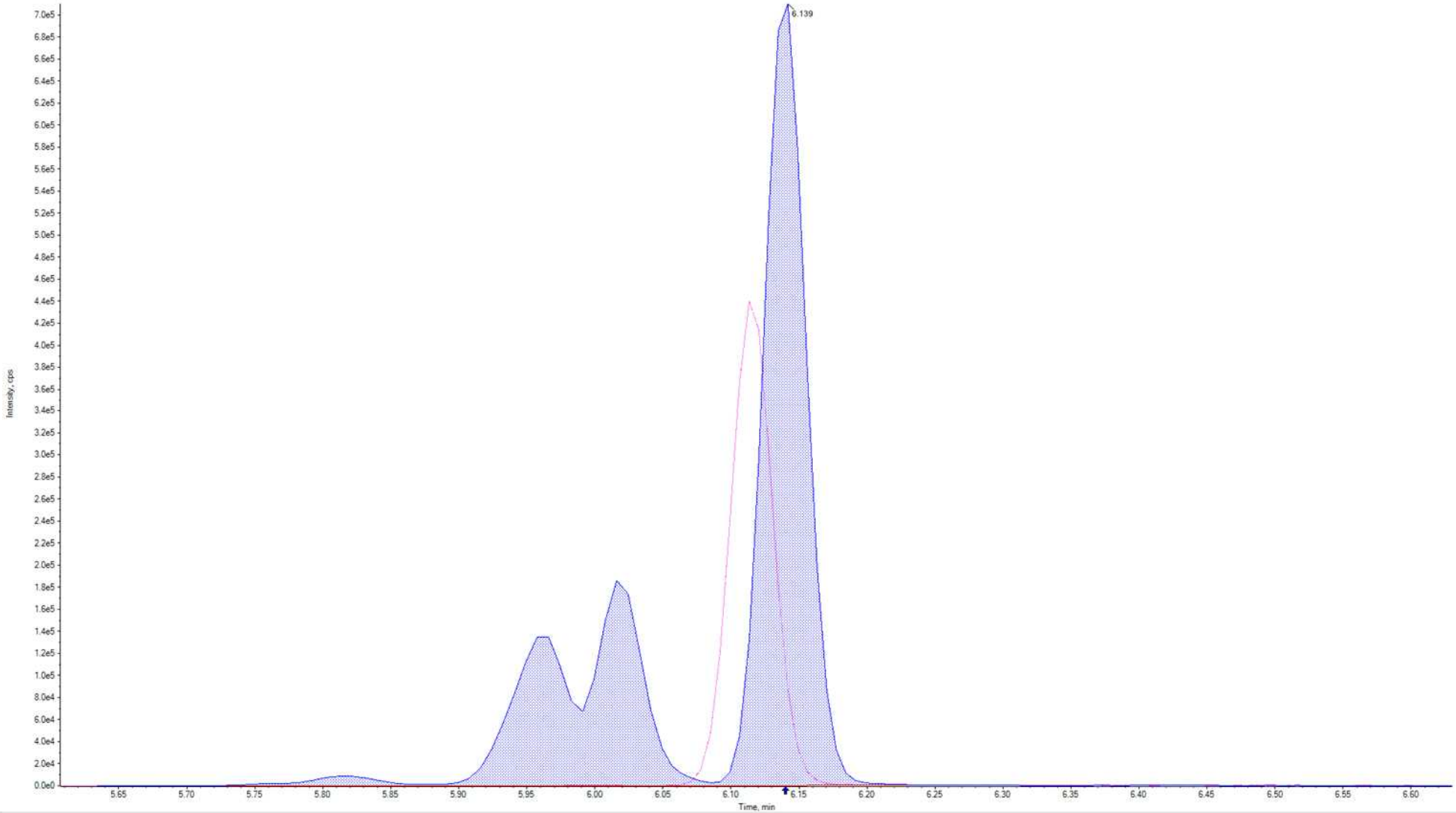
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSE
Sample: IA1633STD-2.5 S/N:245.2 Points Across peak:67

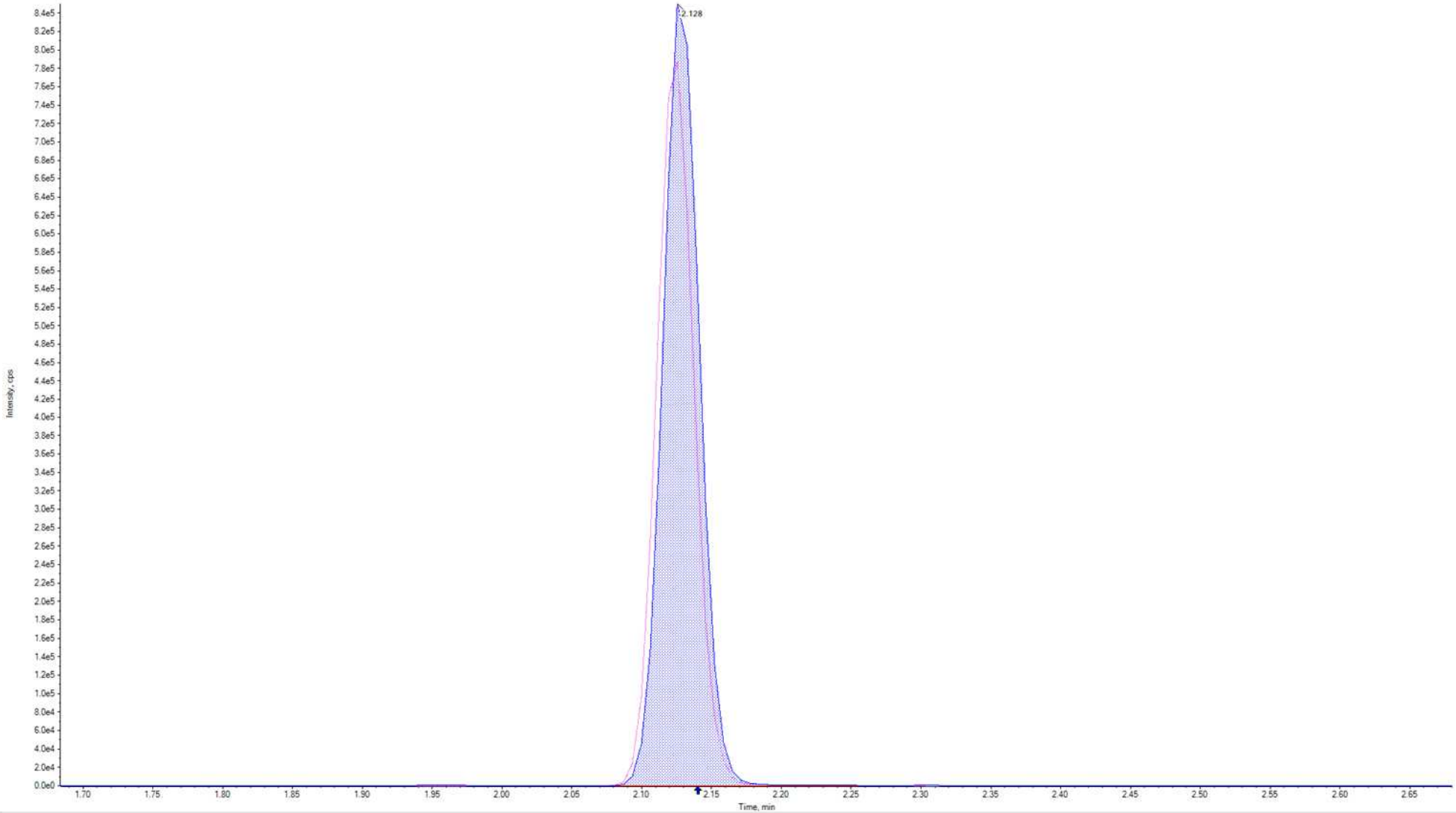


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSE
Sample: IA1633STD-2.5 S/N:424.6 Points Across peak:73

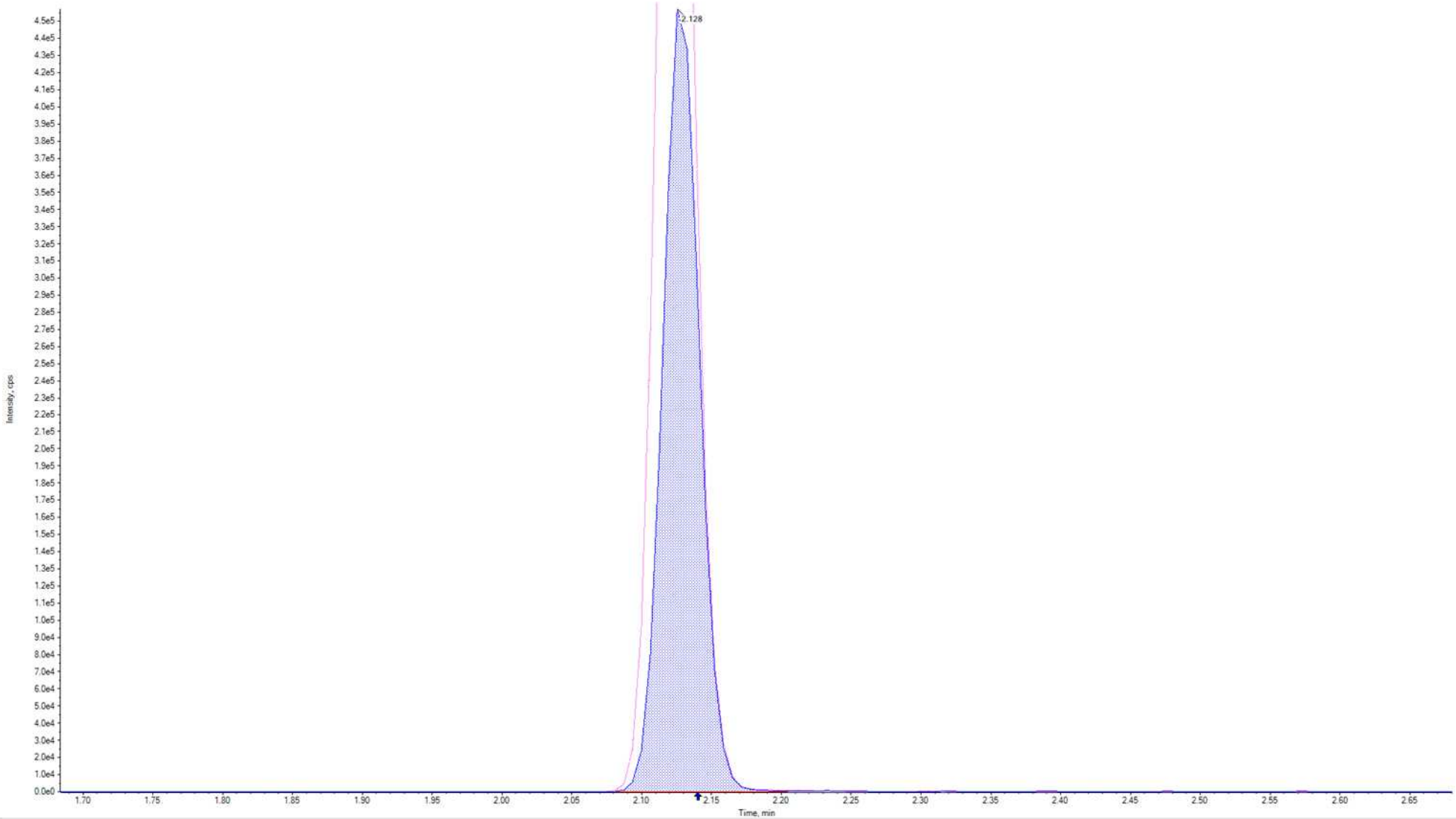


HFPO-DA
Sample: IA1633STD-2.5 S/N:19173.5 Points Across peak:32



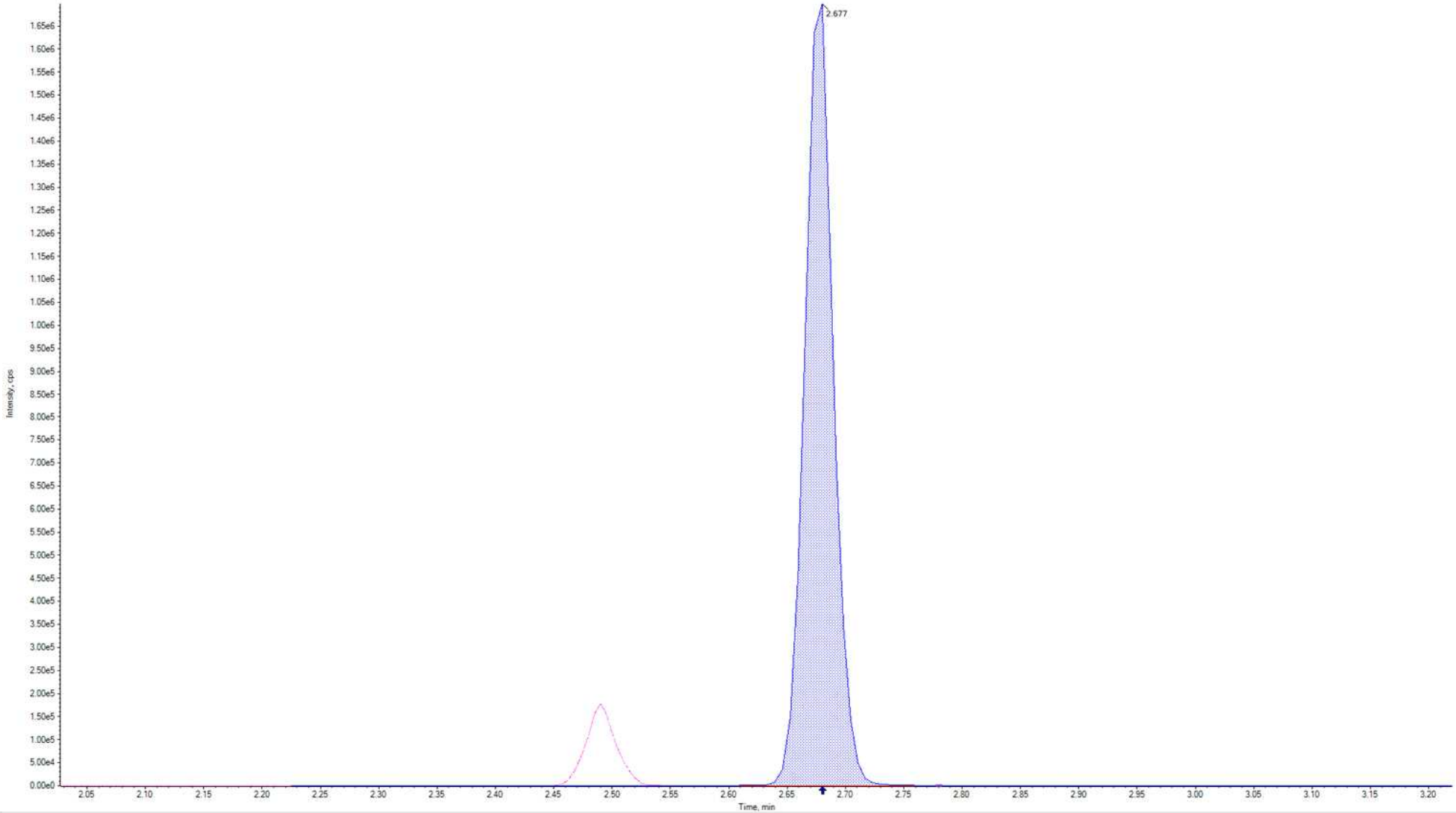
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

HFPO-DA_2
Sample: IA1633STD-2.5 S/N:10309.7 Points Across peak:23



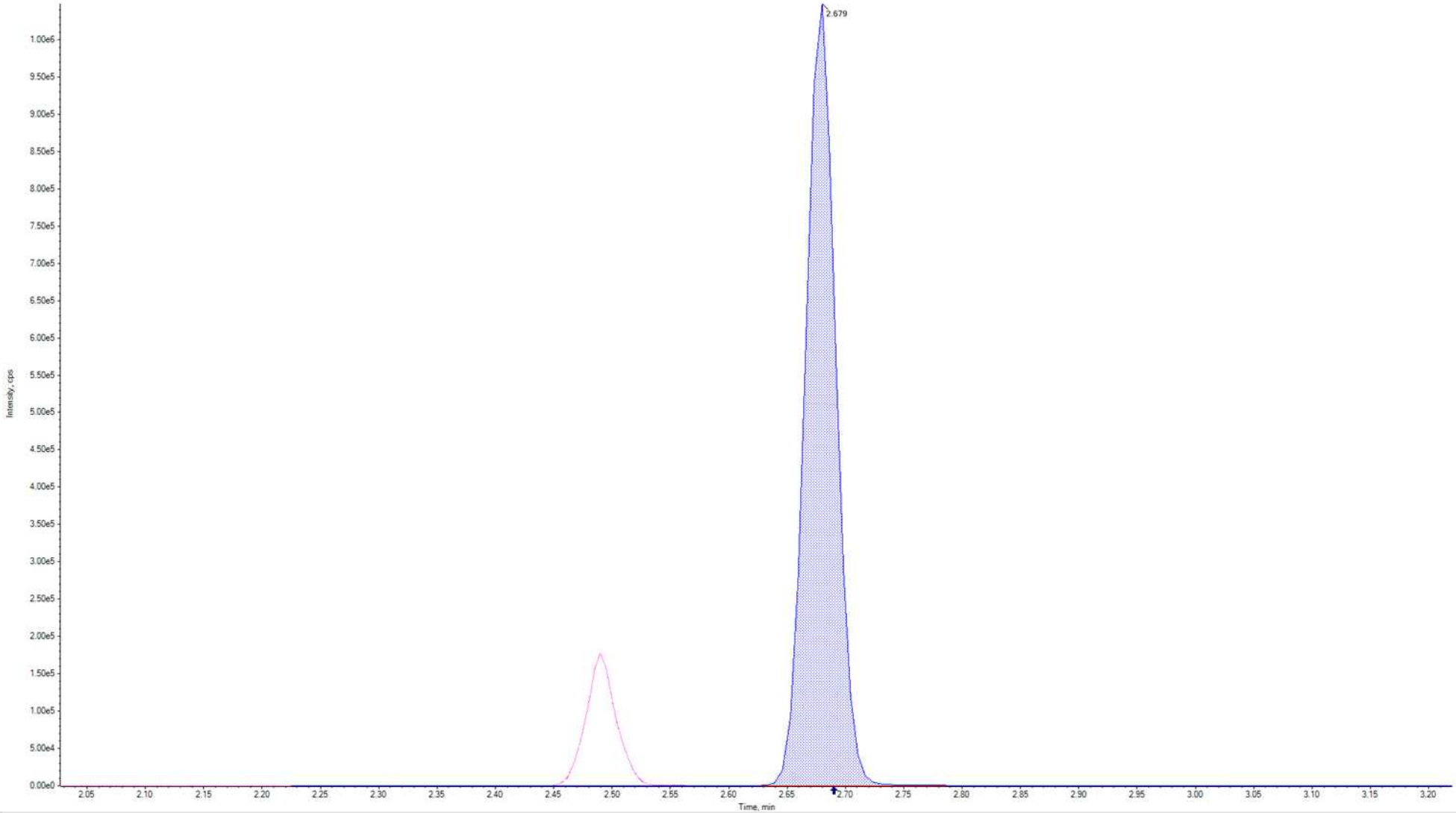
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

ADONA
Sample: IA1633STD-2.5 S/N:34048.6 Points Across peak:30



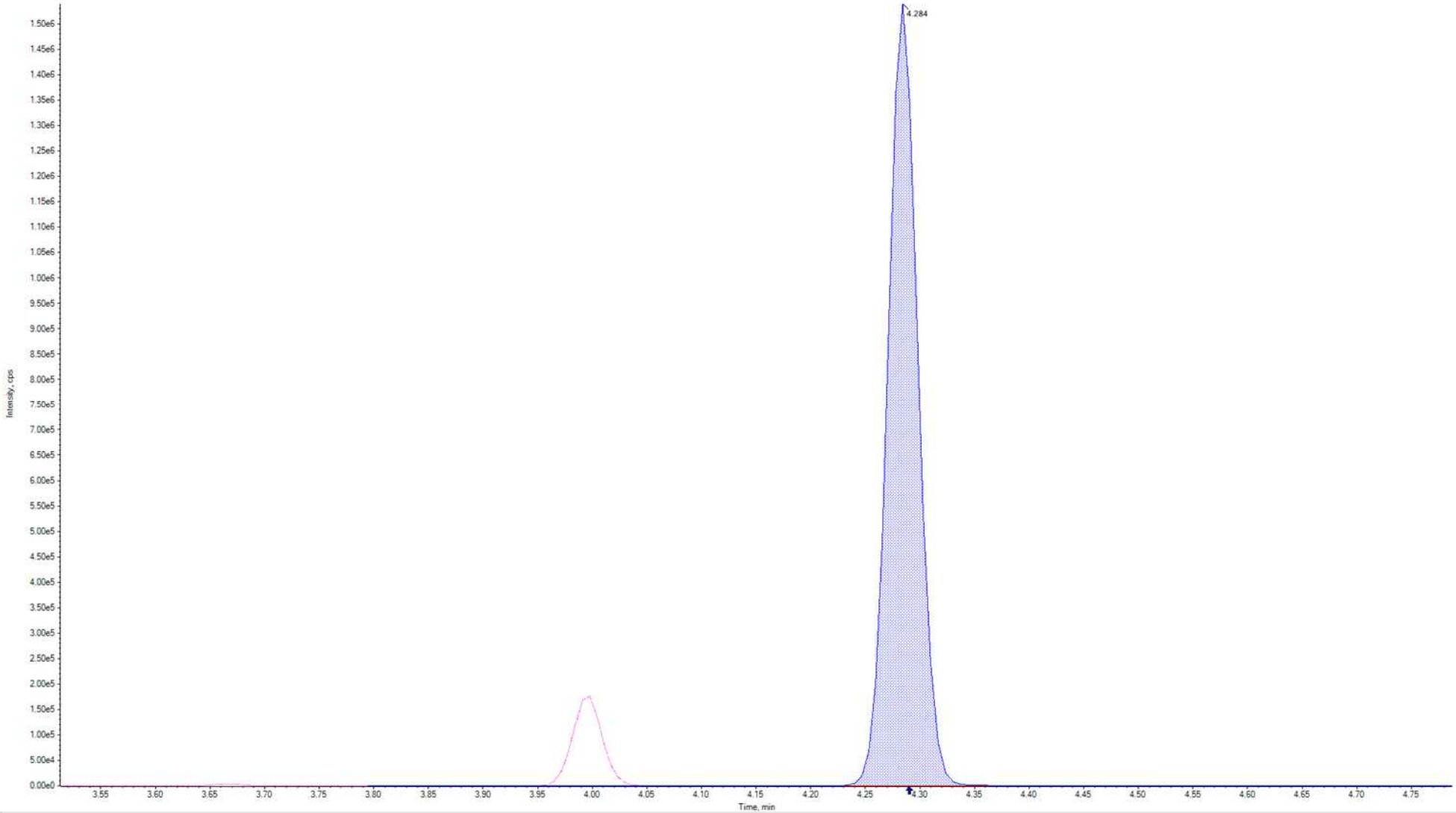
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

ADONA_2
Sample: IA1633STD-2.5 S/N:21010.0 Points Across peak:37



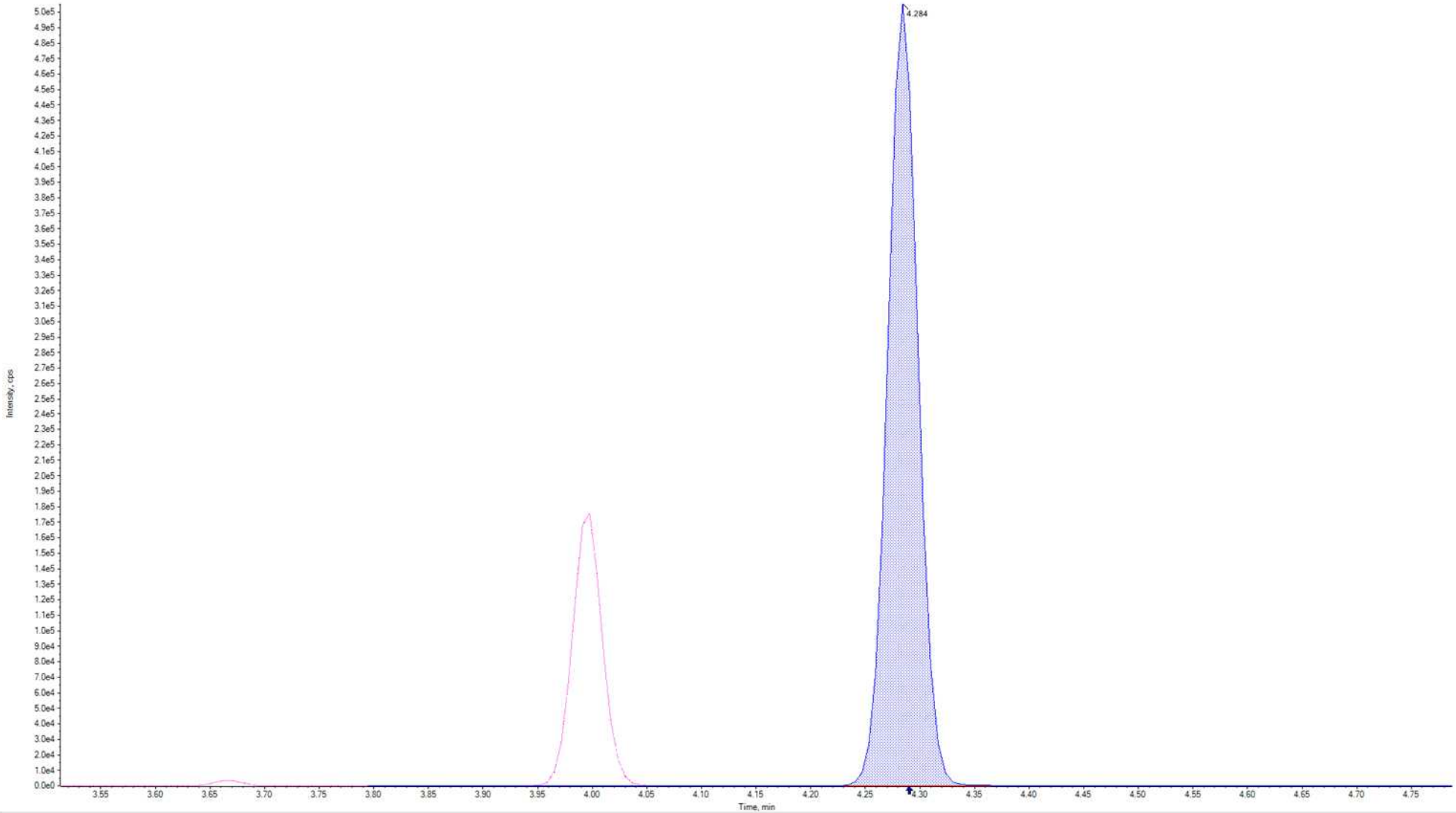
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS
Sample: IA1633STD-2.5 S/N:7228.3 Points Across peak:29



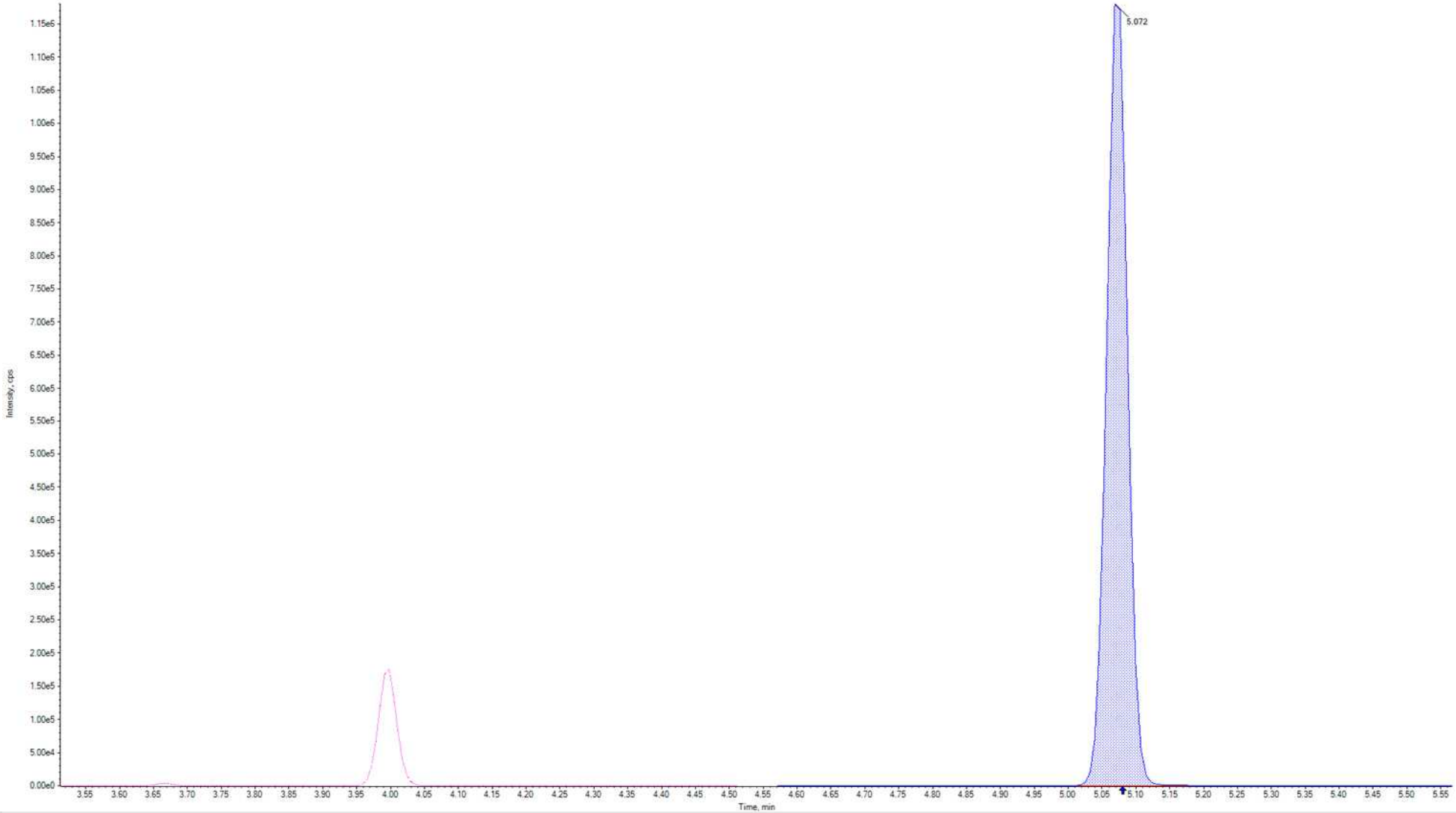
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS_2
Sample: IA1633STD-2.5 S/N:5035.6 Points Across peak:29



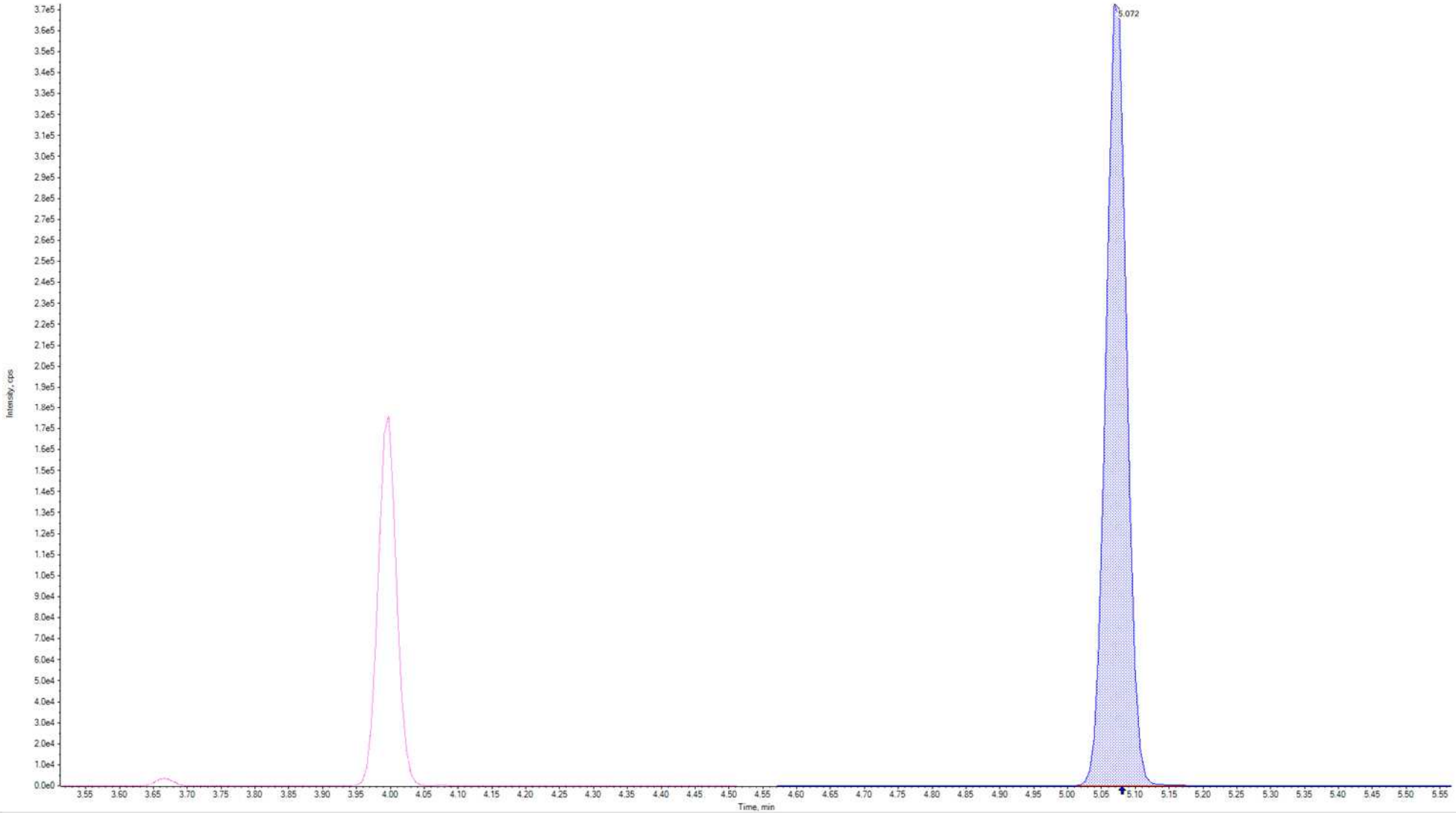
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

11Cl-PF3OUdS
Sample: IA1633STD-2.5 S/N:8576.2 Points Across peak:33



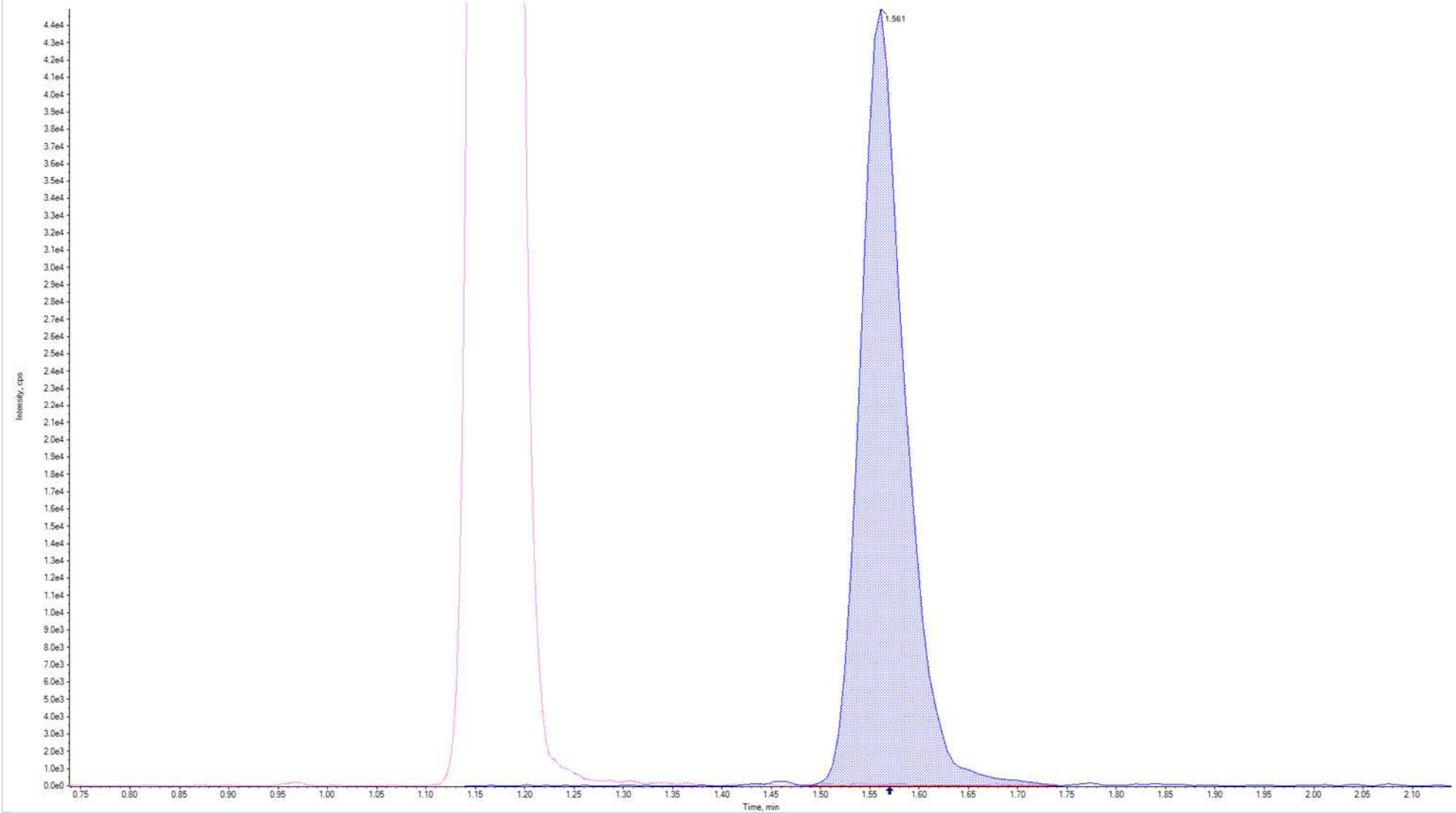
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_25.wiff2_4
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11Cl-PF3OUdS_2
Sample: IA1633STD-2.5 S/N:6051.3 Points Across peak:26



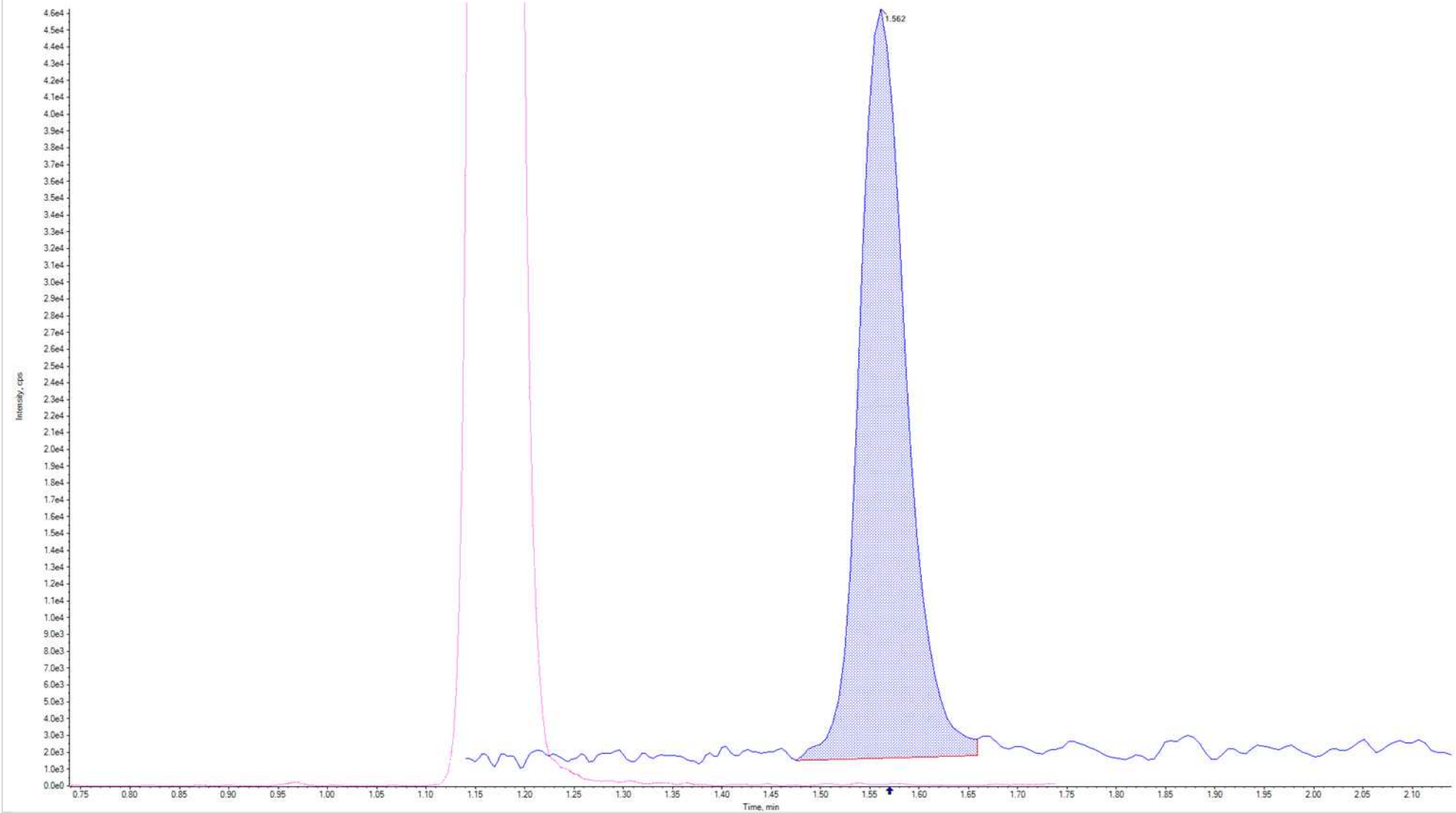
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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3:3FTCA
Sample: IA1633STD-2.5 S/N:1126.4 Points Across peak:42



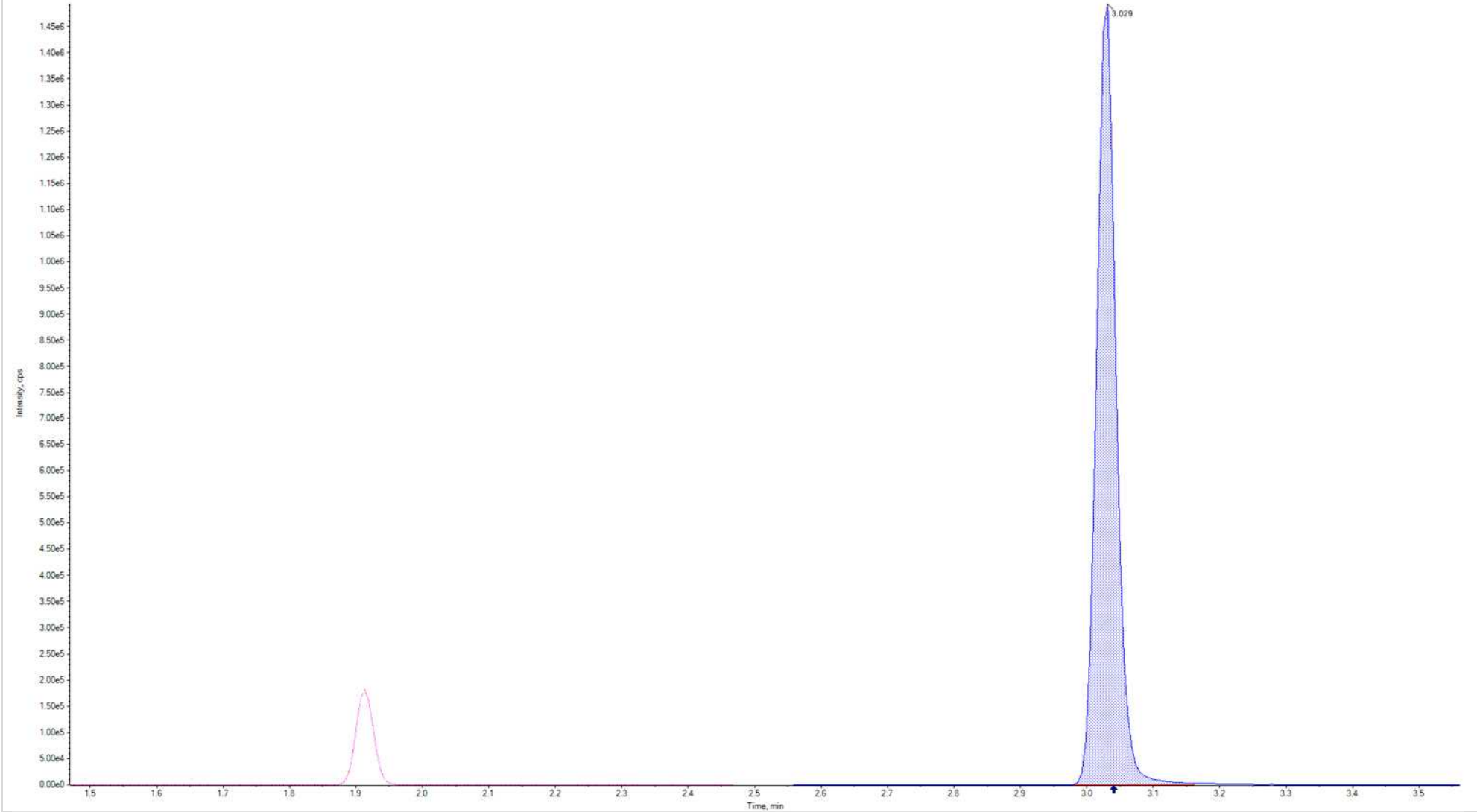
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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3:3FTCA_2
Sample: IA1633STD-2.5 S/N:296.5 Points Across peak:31



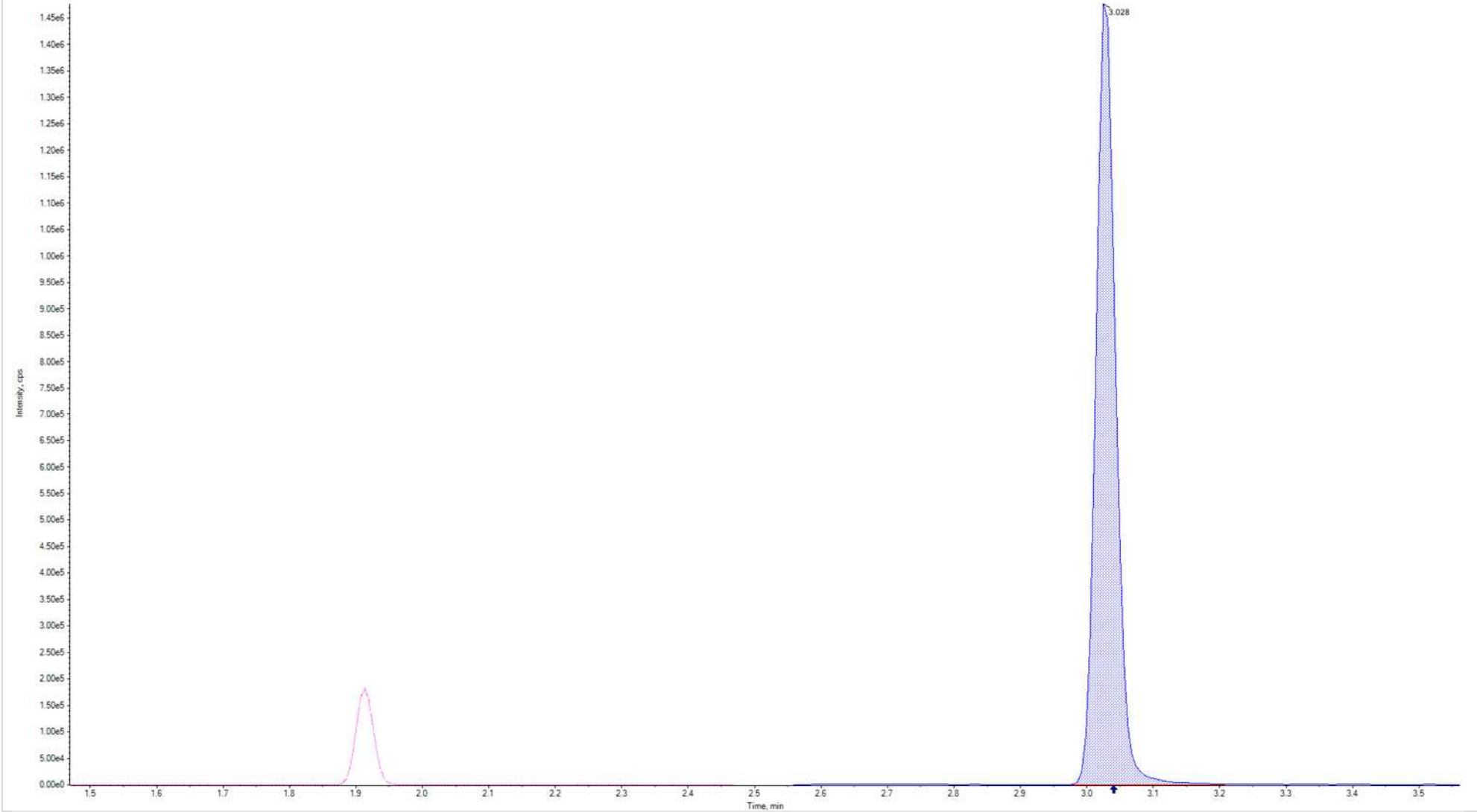
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Alpha Analytical LLC
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5:3FTCA
Sample: IA1633STD-2.5 S/N:16791.7 Points Across peak:33



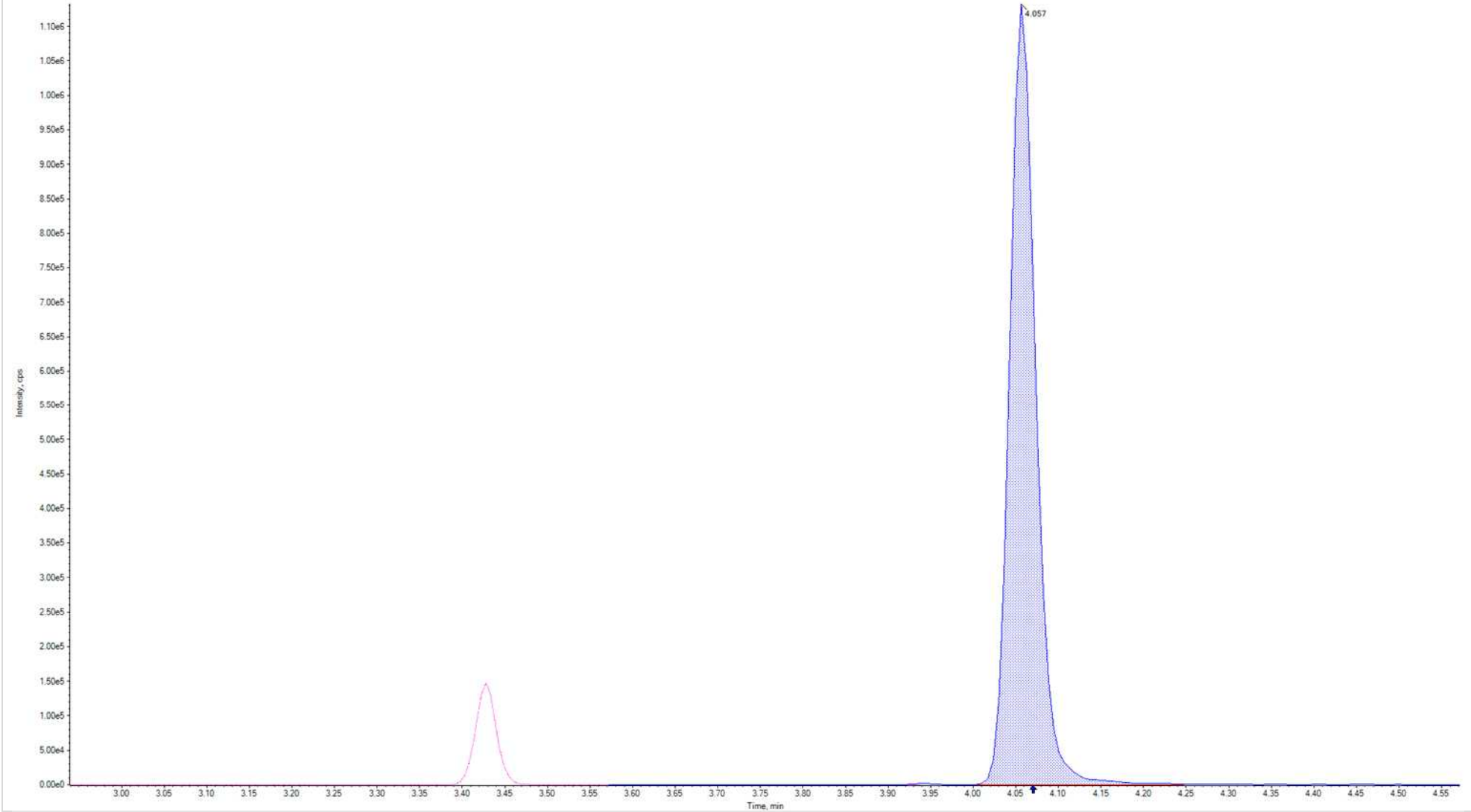
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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5:3FTCA_2
Sample: IA1633STD-2.5 S/N:3939.0 Points Across peak:41



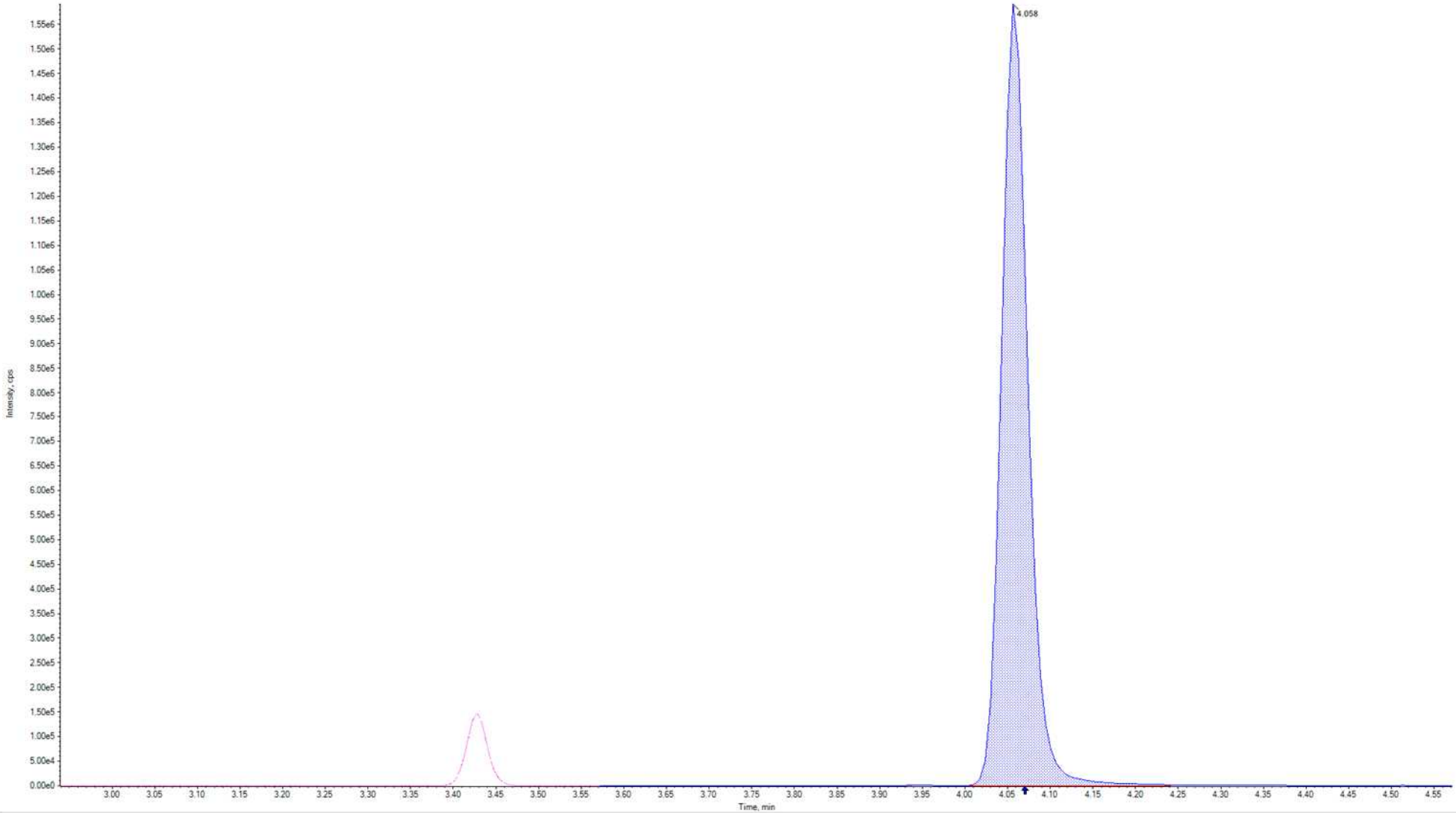
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Alpha Analytical LLC
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7:3FTCA
Sample: IA1633STD-2.5 S/N:27615.5 Points Across peak:43



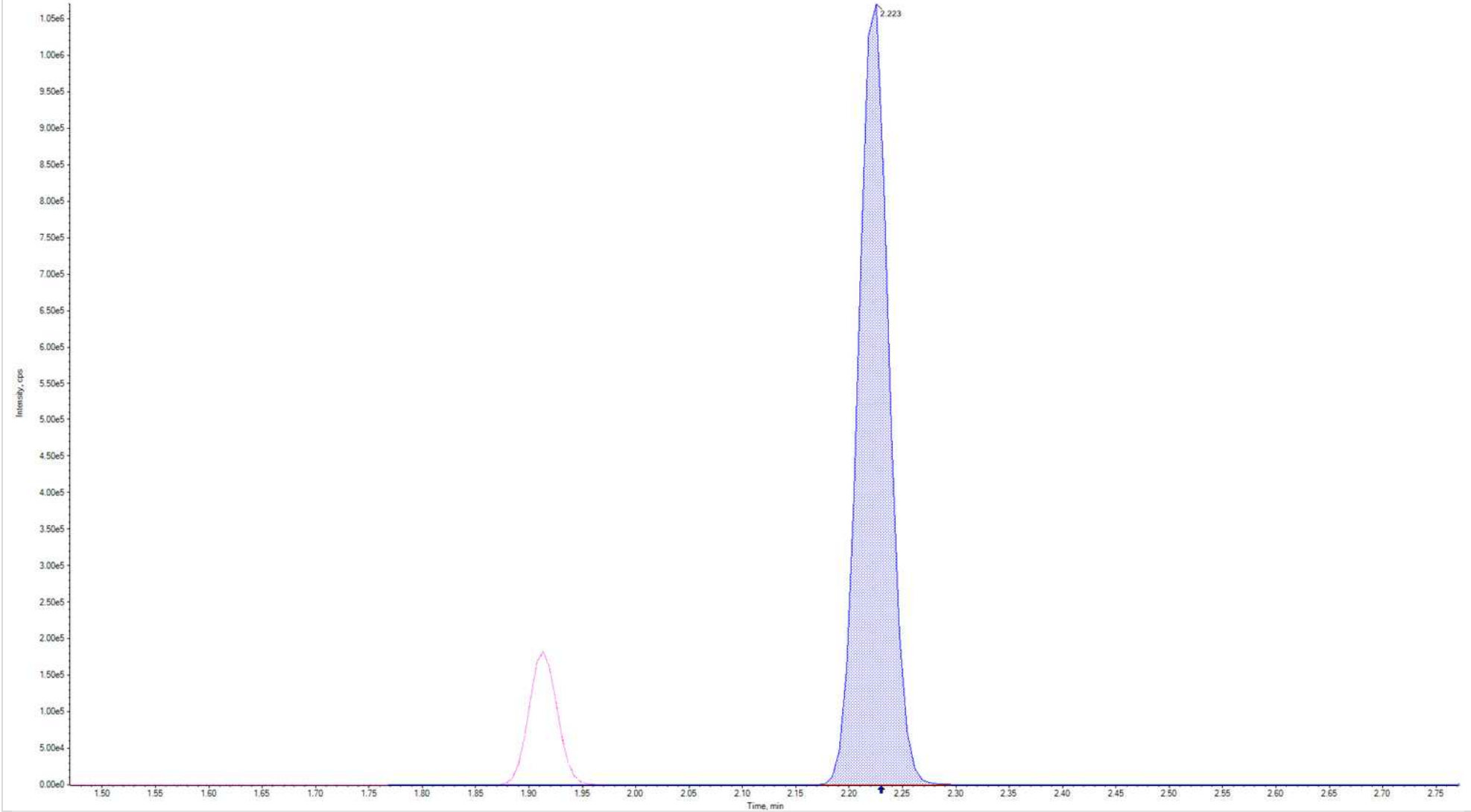
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Alpha Analytical LLC
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7:3FTCA_2
Sample: IA1633STD-2.5 S/N:43881.1 Points Across peak:41



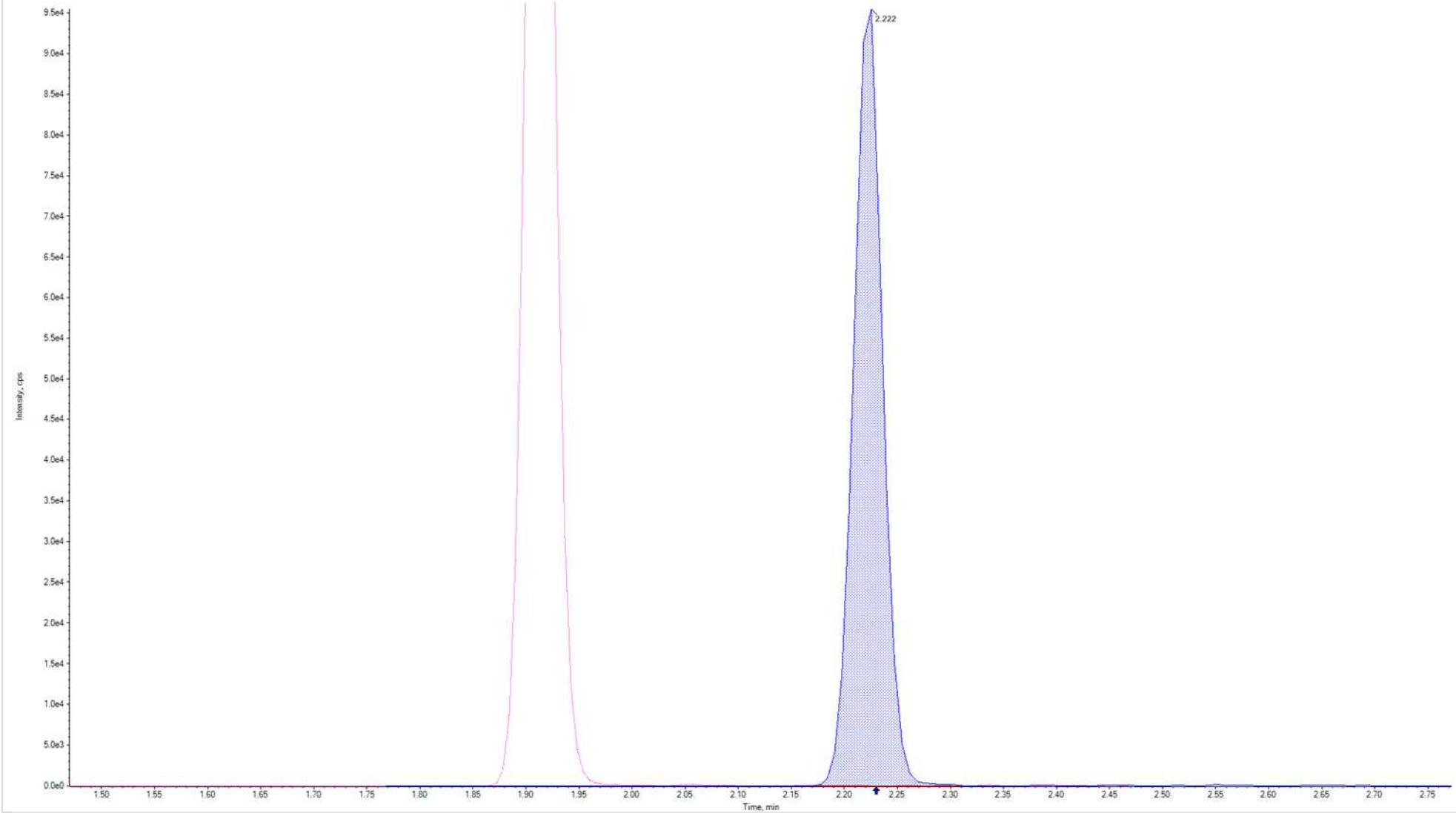
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Alpha Analytical LLC
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PFEESA
Sample: IA1633STD-2.5 S/N:7787.1 Points Across peak:31



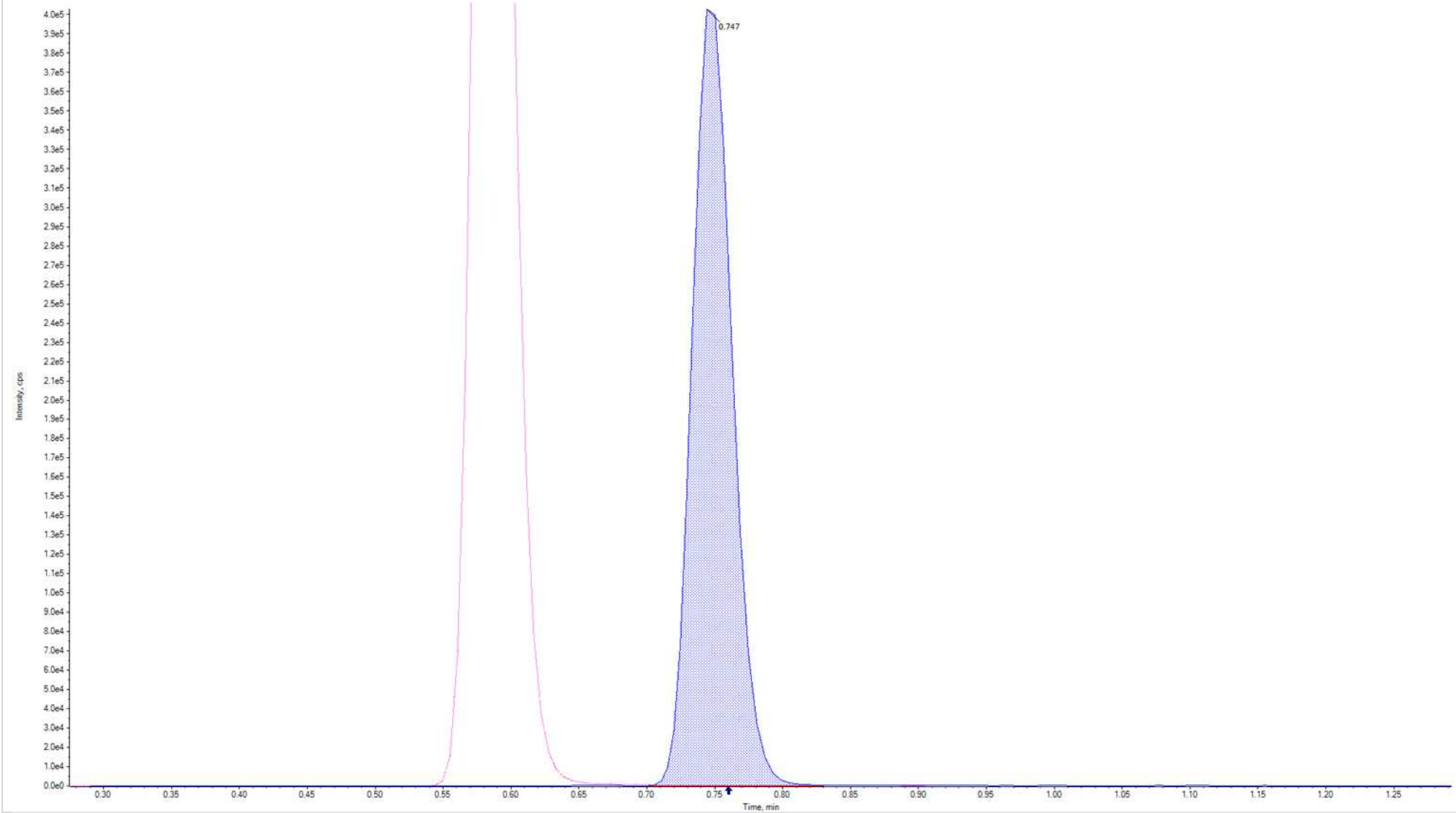
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Alpha Analytical LLC
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PFEESA_2
Sample: IA1633STD-2.5 S/N:2153.2 Points Across peak:28



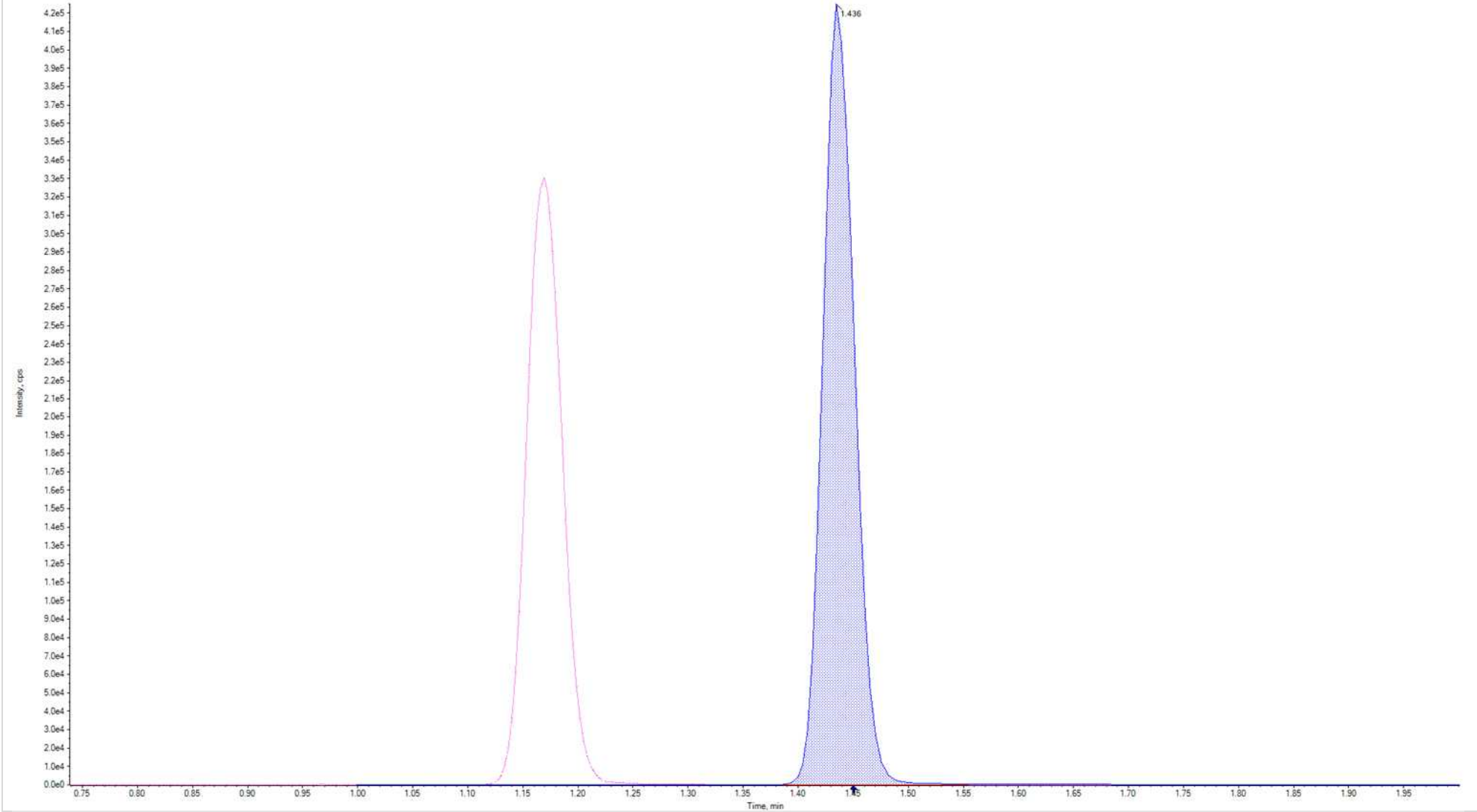
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Alpha Analytical LLC
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PFMPA
Sample: IA1633STD-2.5 S/N:9746.5 Points Across peak:26



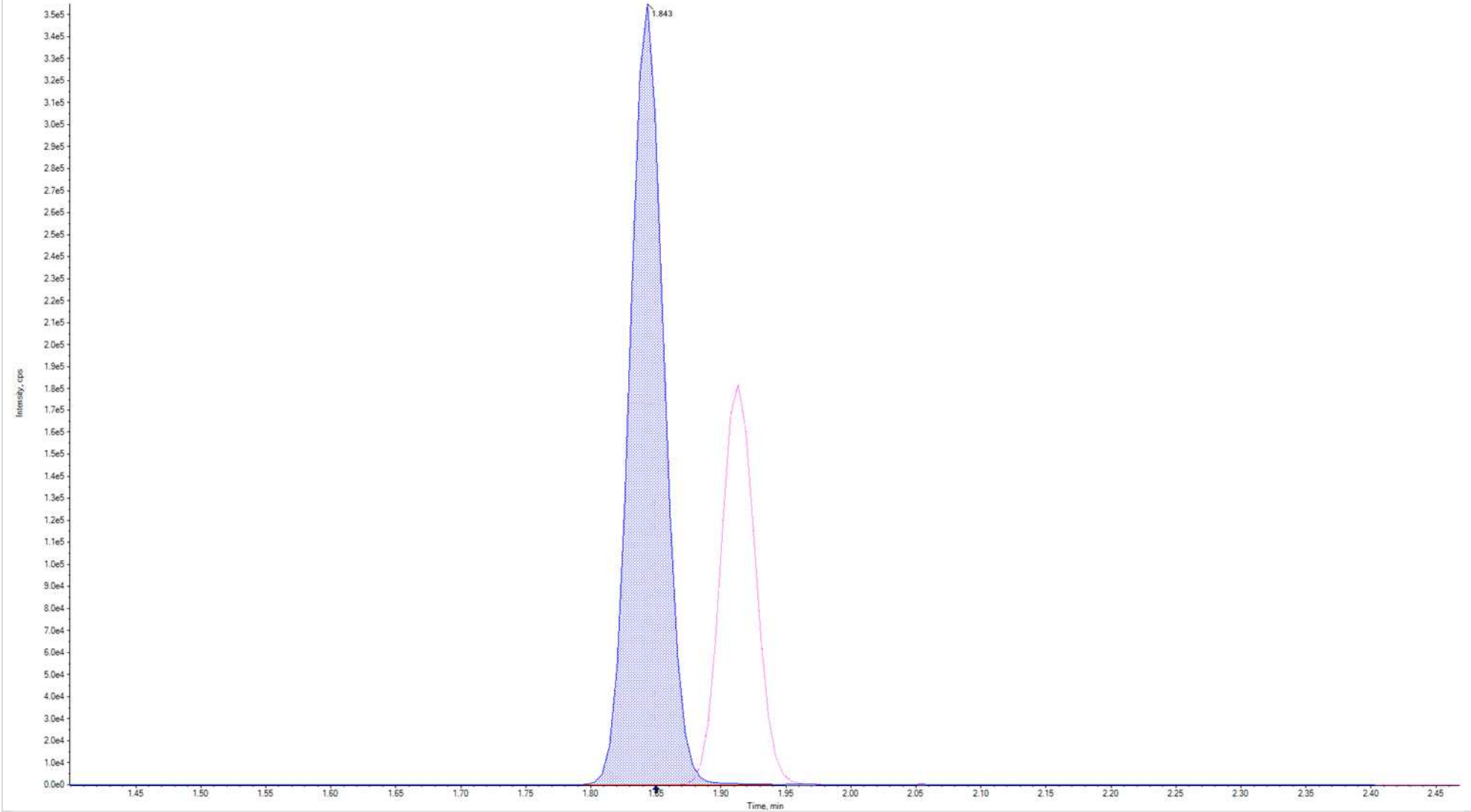
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Alpha Analytical LLC
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PFMBA
Sample: IA1633STD-2.5 S/N:24501.7 Points Across peak:38



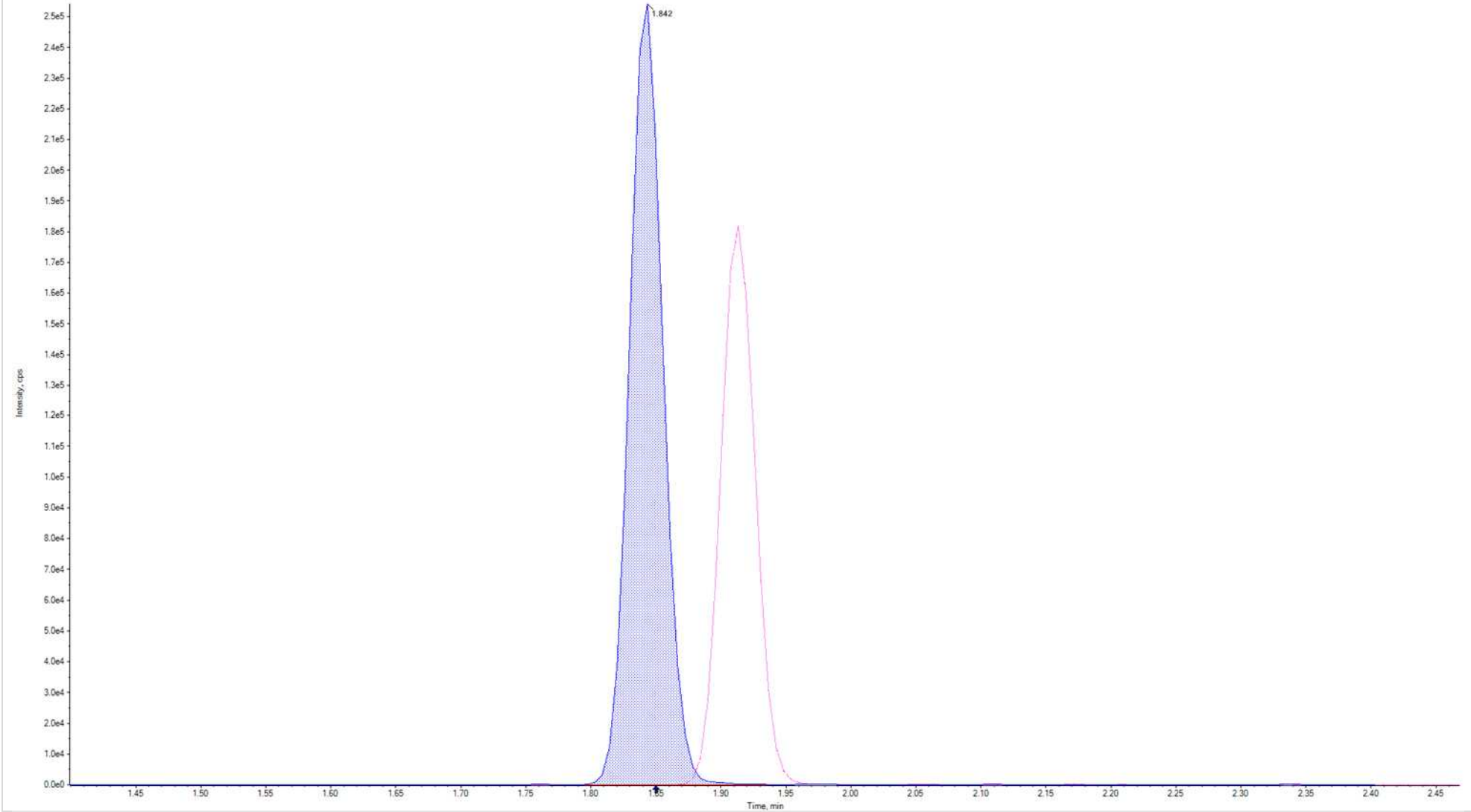
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Alpha Analytical LLC
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NFDHA
Sample: IA1633STD-2.5 S/N:4606.8 Points Across peak:31

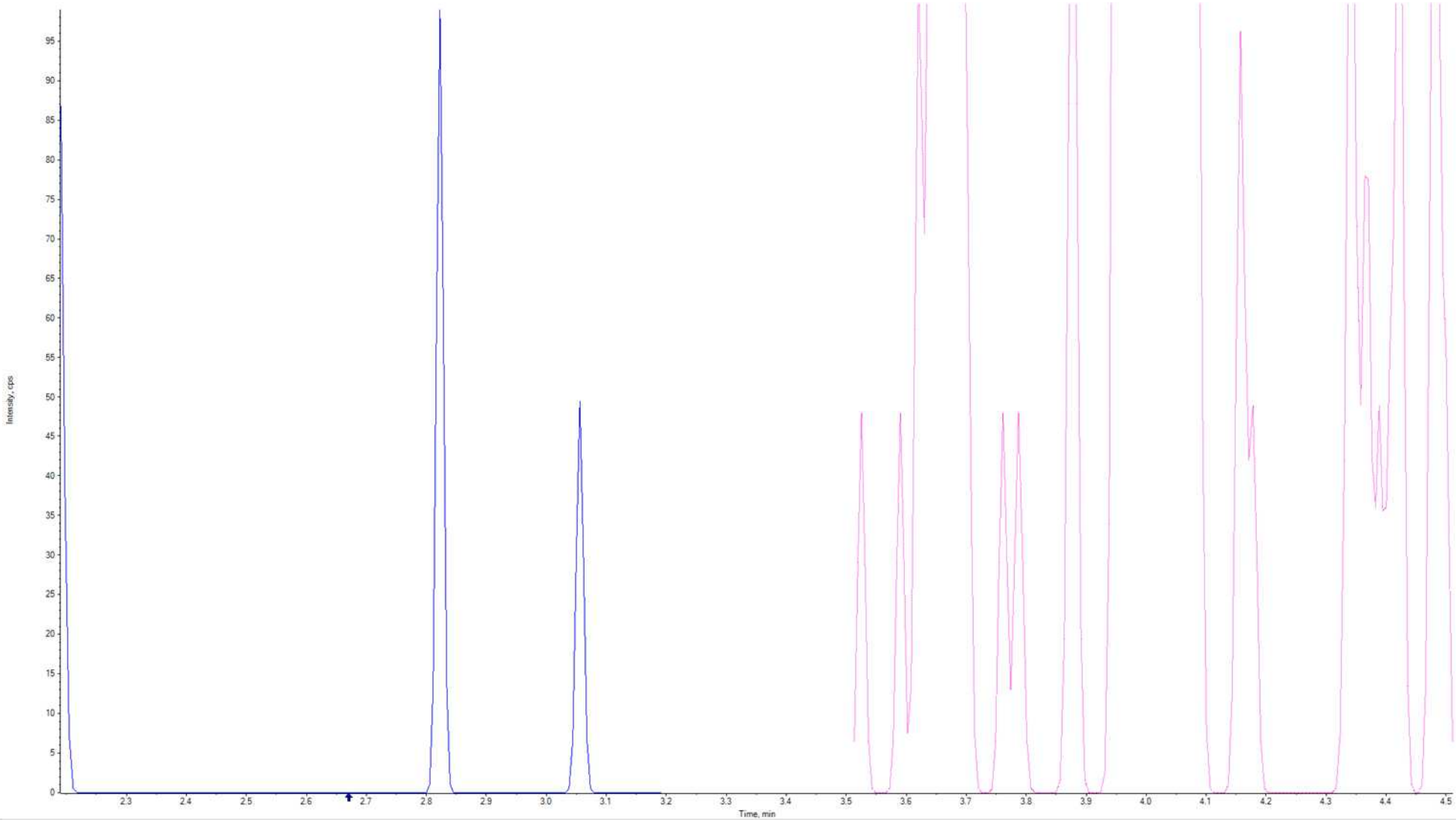


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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NFDHA_2
Sample: IA1633STD-2.5 S/N:7007.0 Points Across peak:29

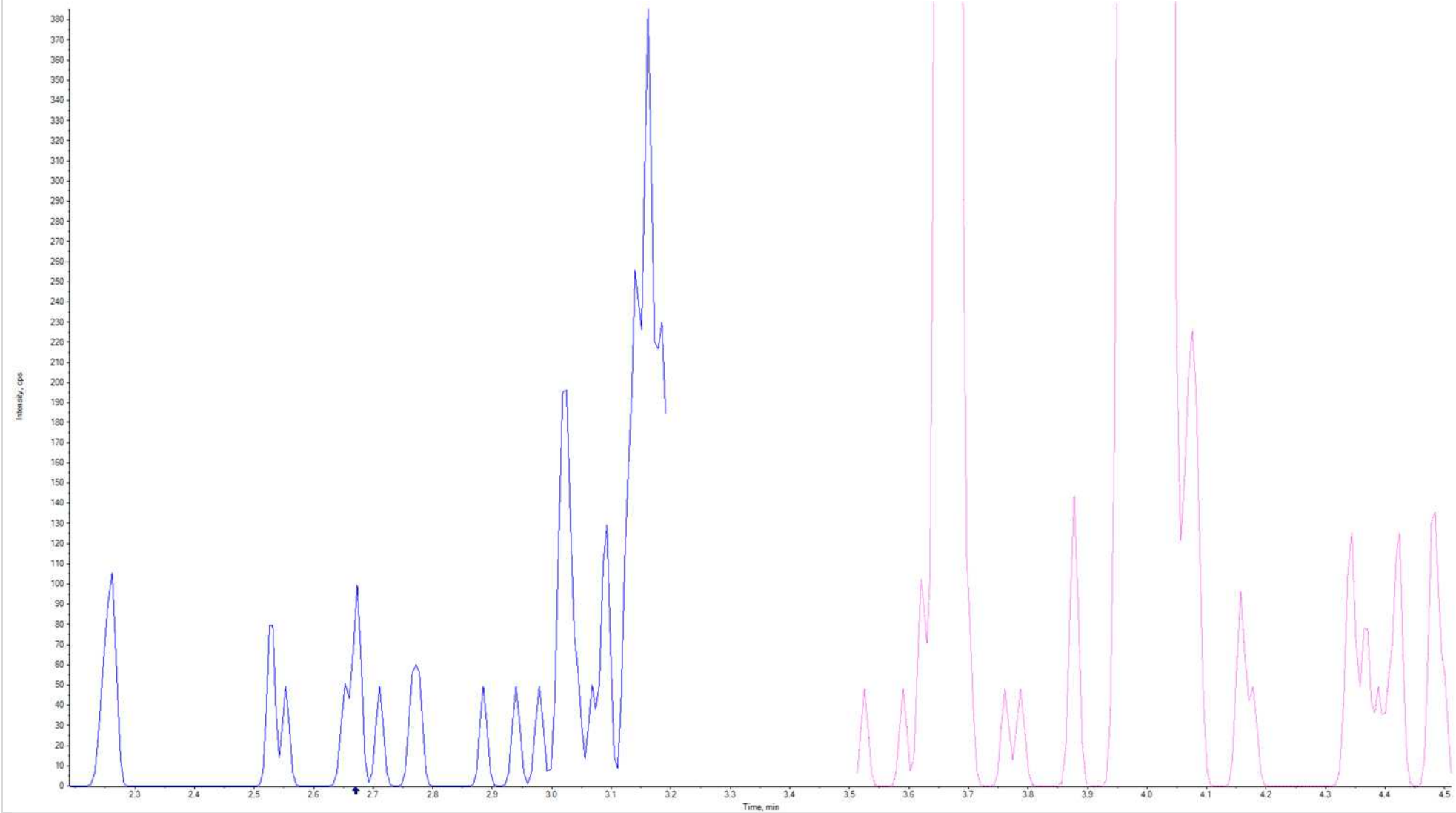


TDCA
Sample: IA1633STD-2.5 S/N:N/A Points Across peak:N/A



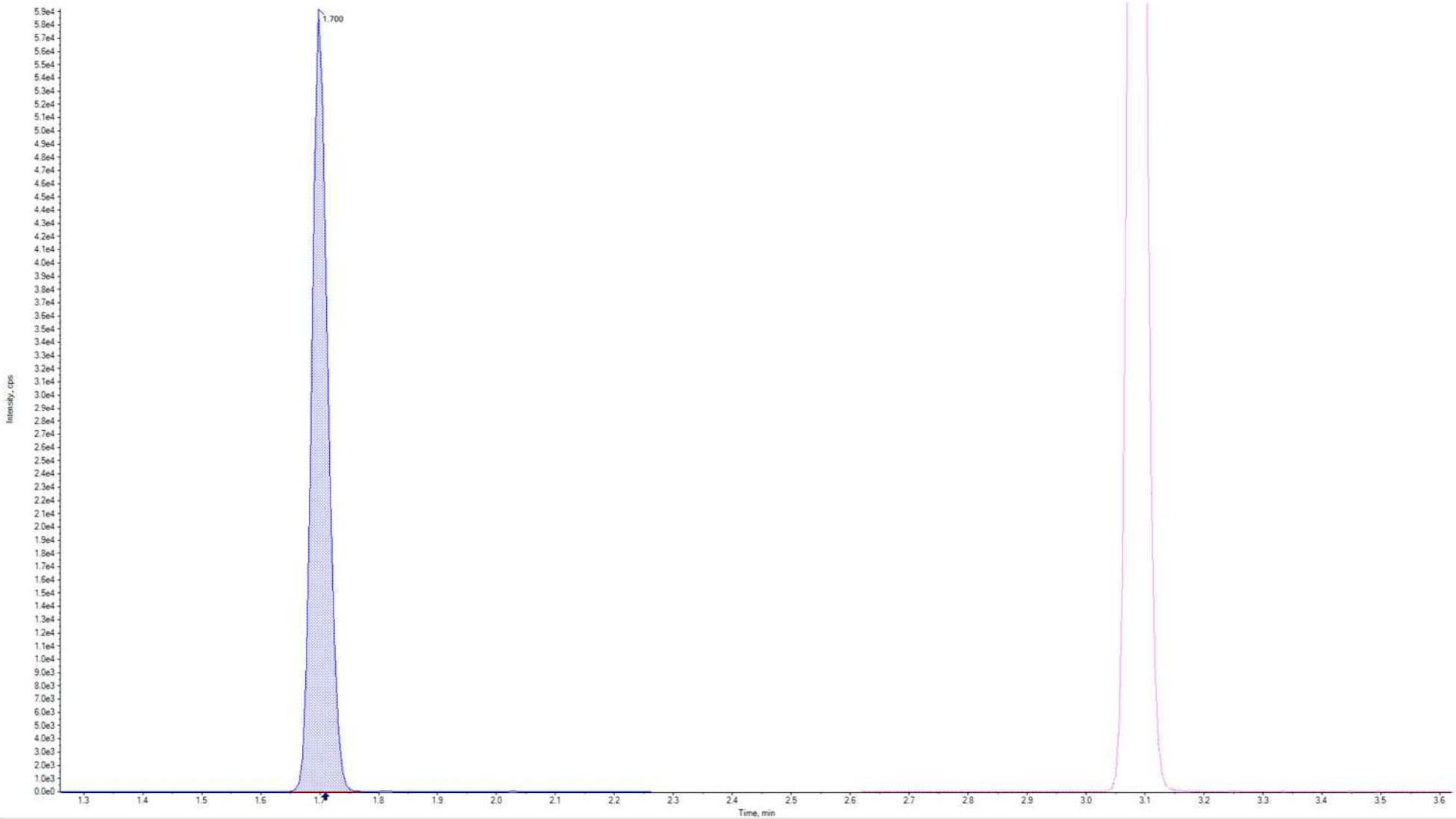
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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TDCA_2
Sample: IA1633STD-2.5 S/N:N/A Points Across peak:N/A



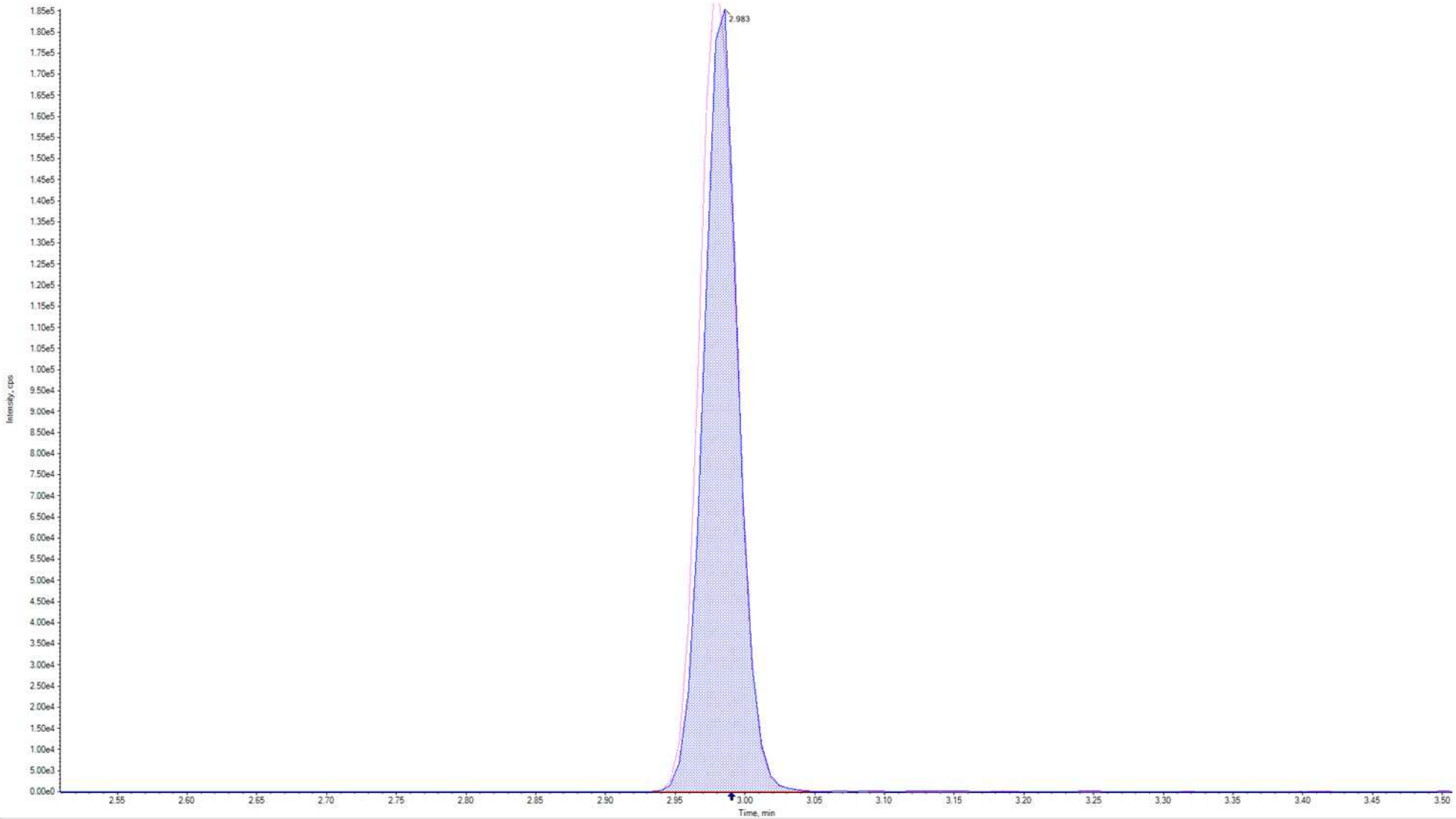
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13C2D4-4:2FTS
Sample: IA1633STD-2.5 S/N:2225.8 Points Across peak:26

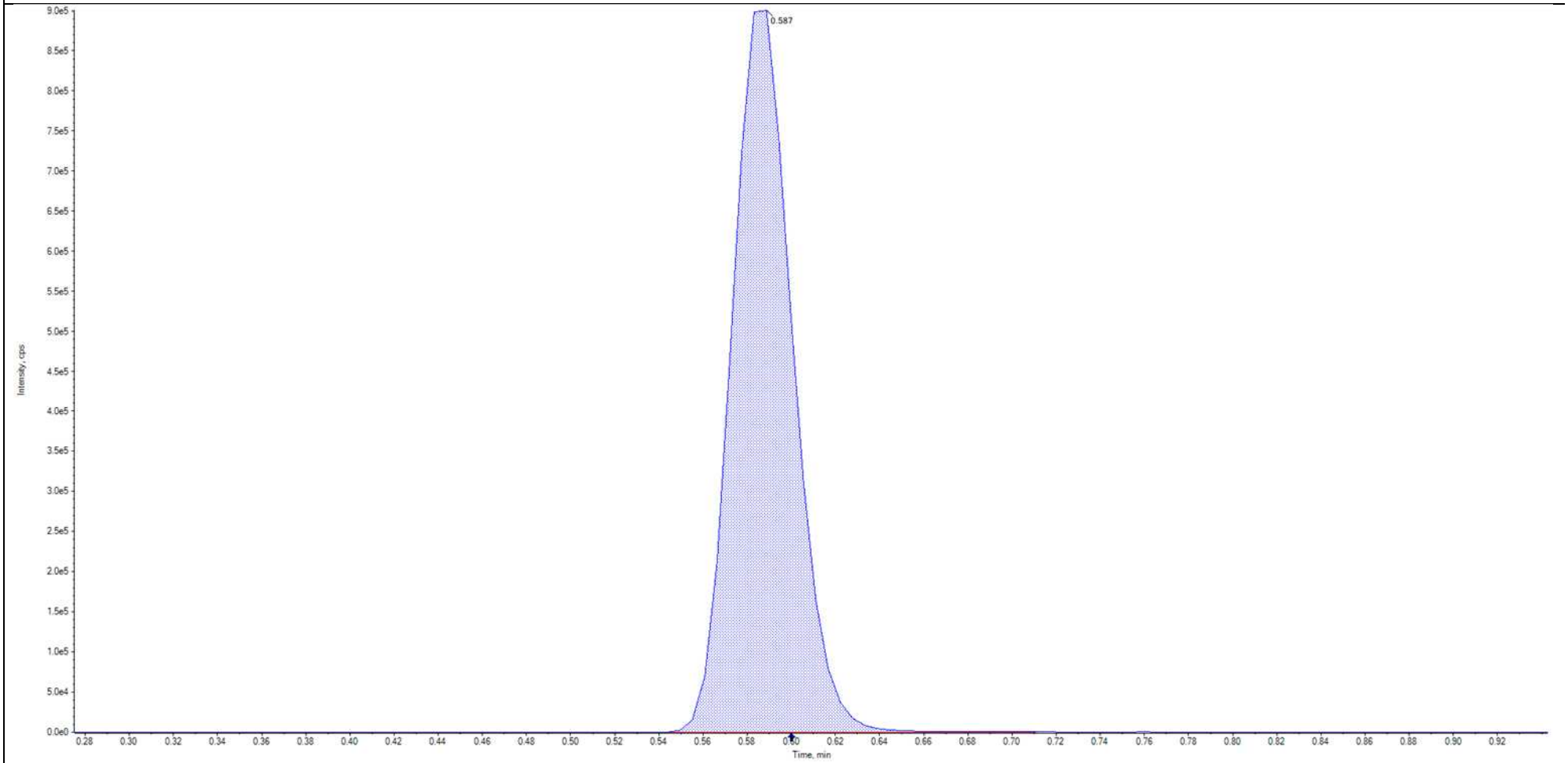


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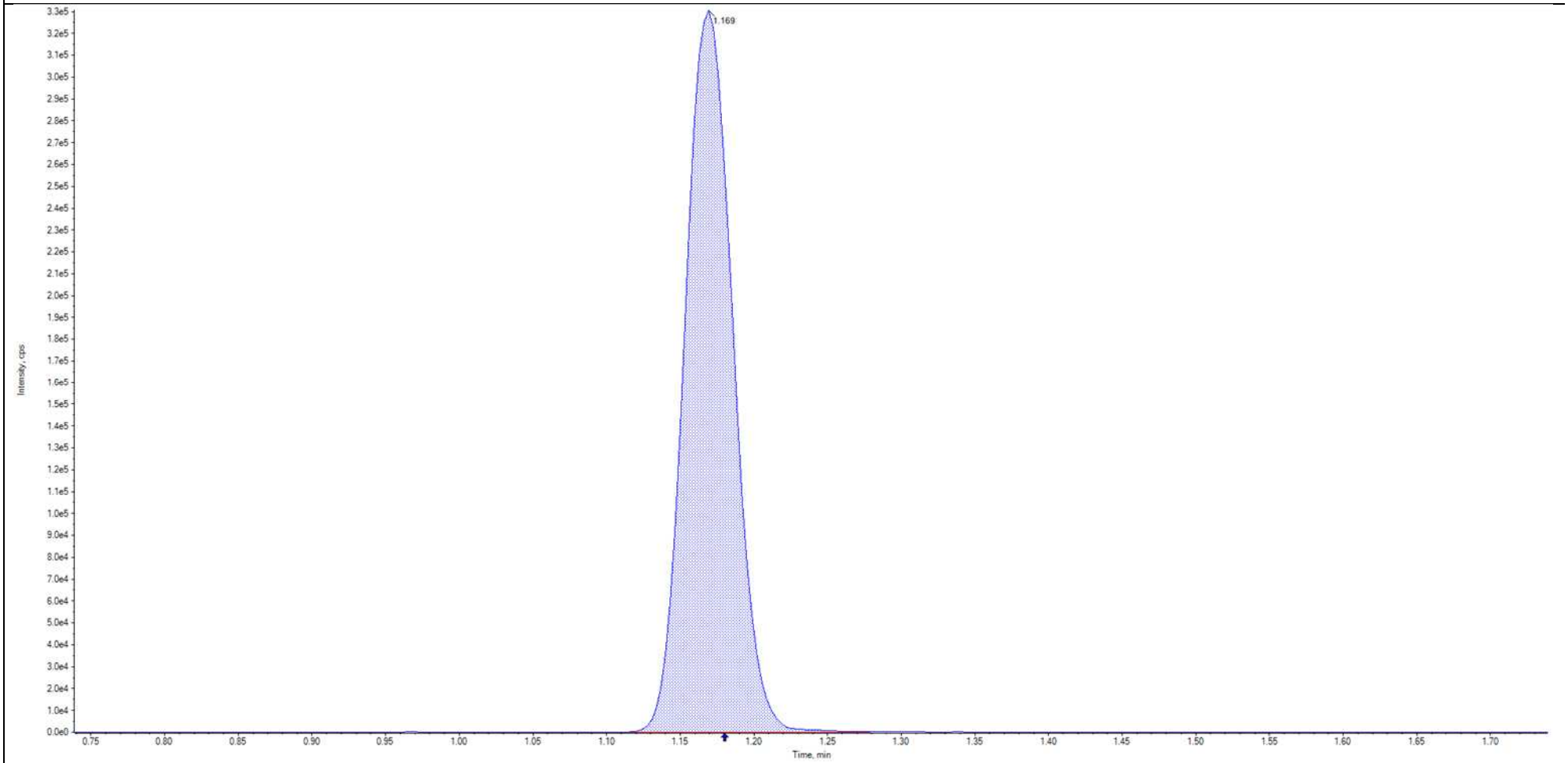
13C2-PFOA
Sample: IA1633STD-2.5 S/N:4182.6 Points Across peak:22



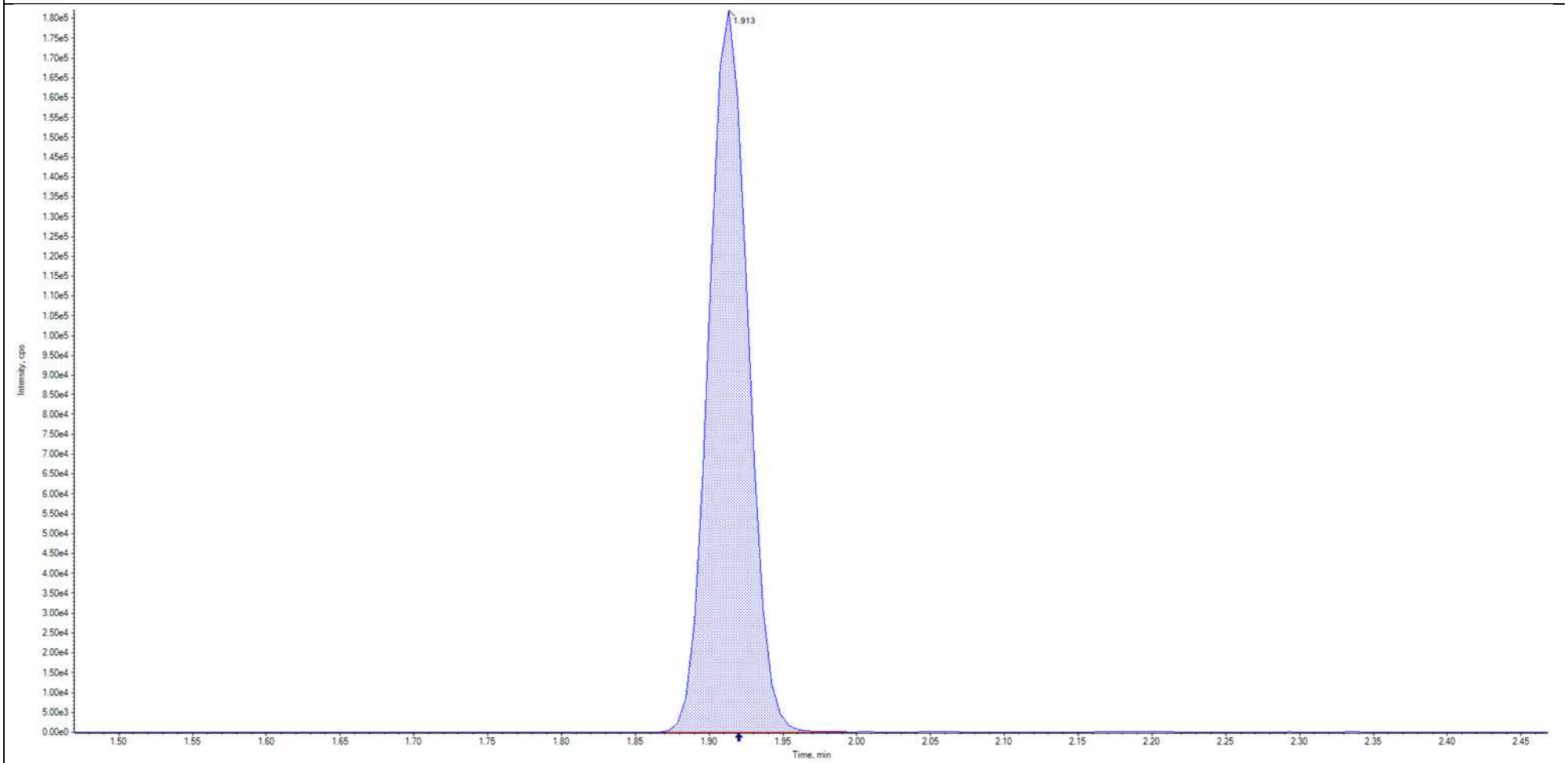
13C4-PFBA
Sample: IA1633STD-2.5



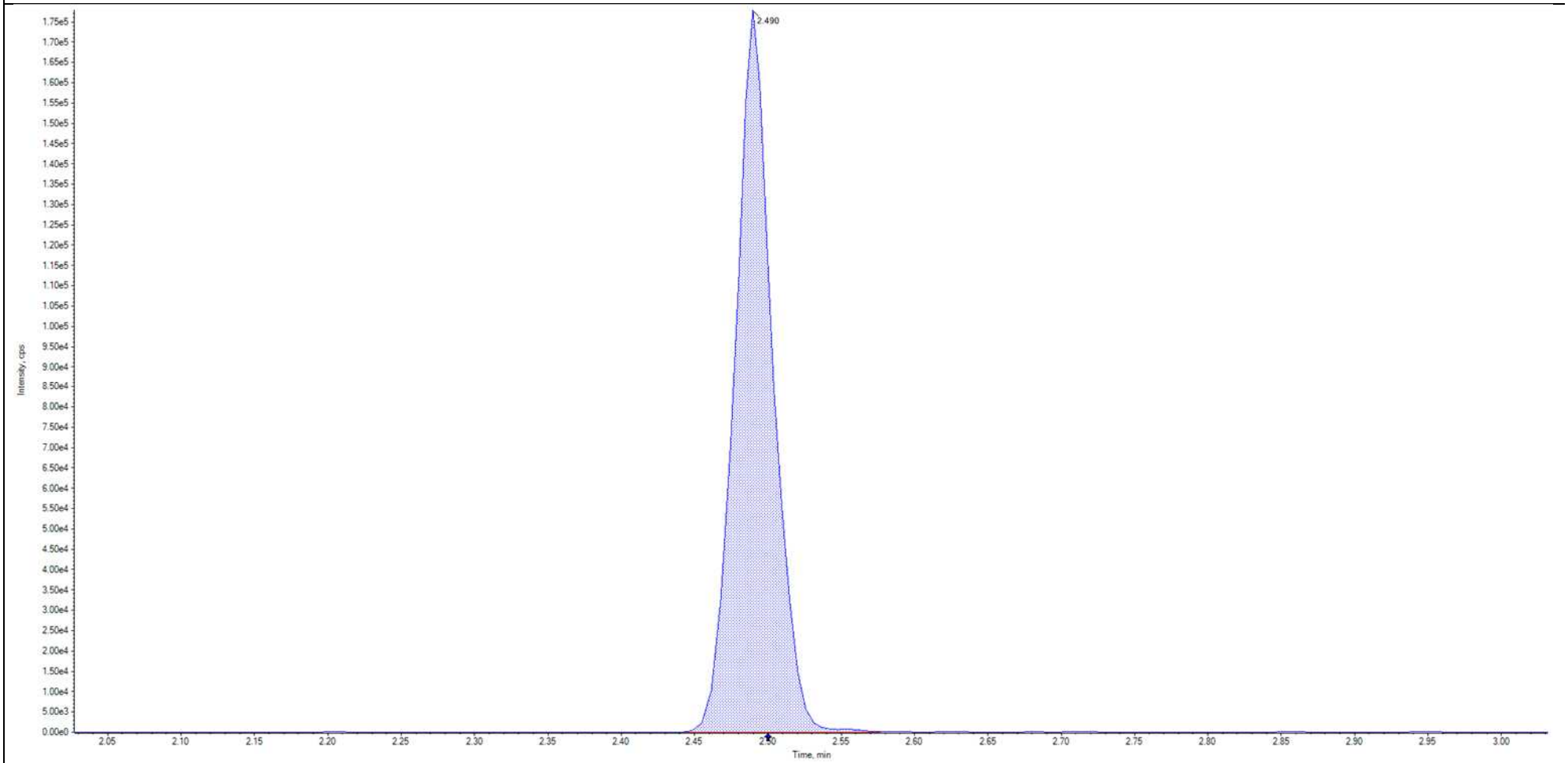
13C5-PFPeA
Sample: IA1633STD-2.5



13C5-PFHxA
Sample: IA1633STD-2.5

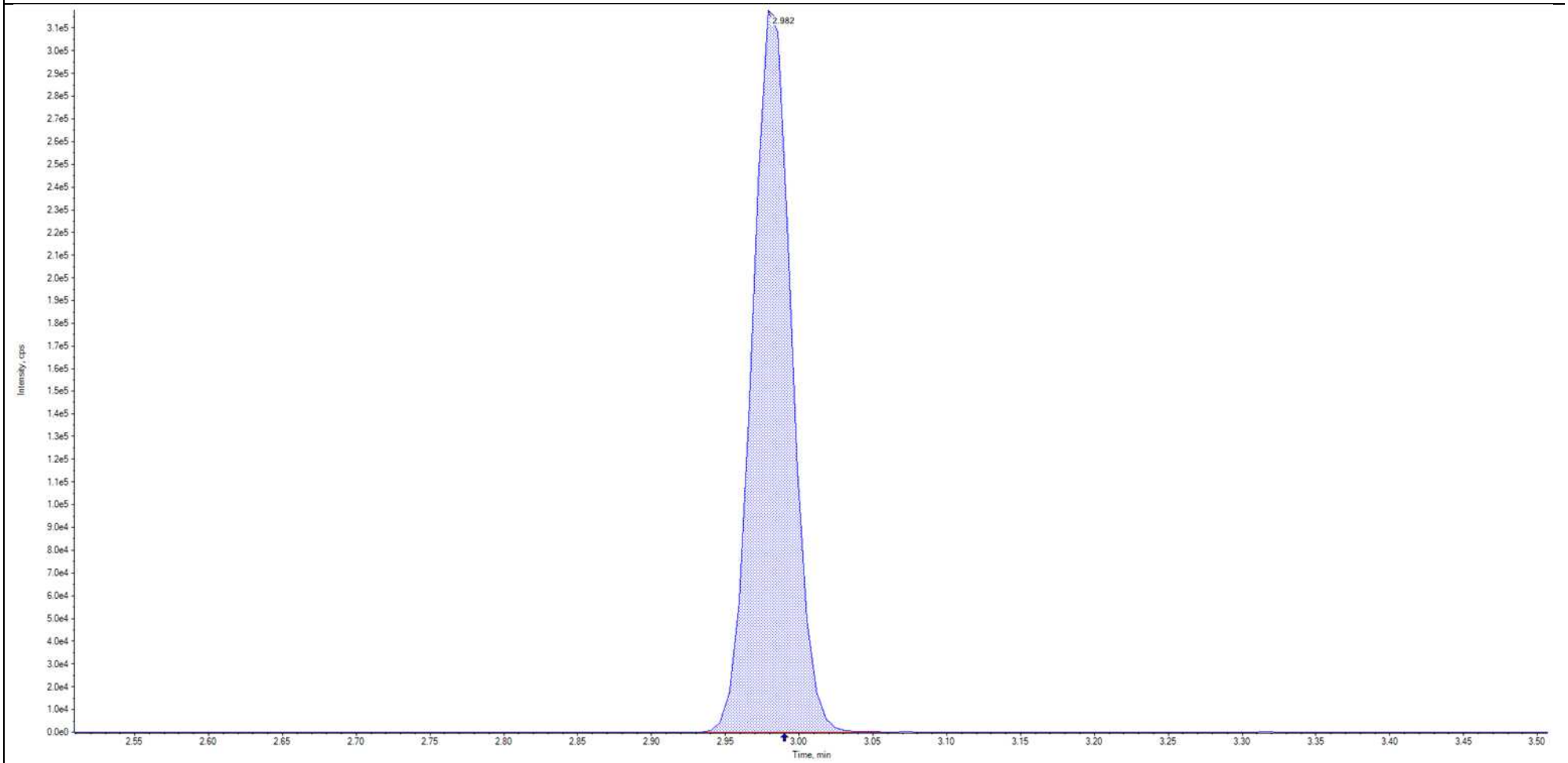


13C4-PFHpA
Sample: IA1633STD-2.5

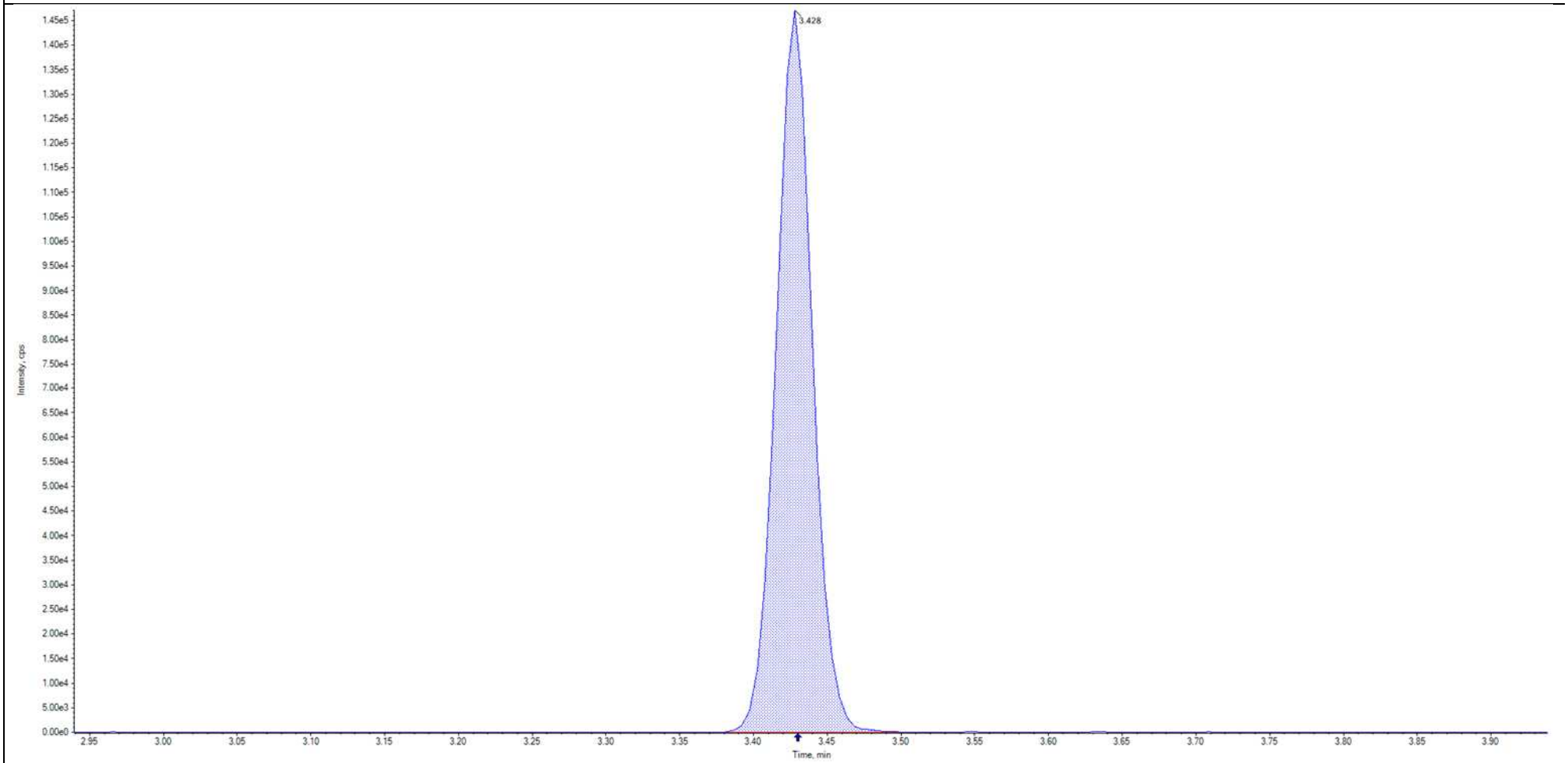


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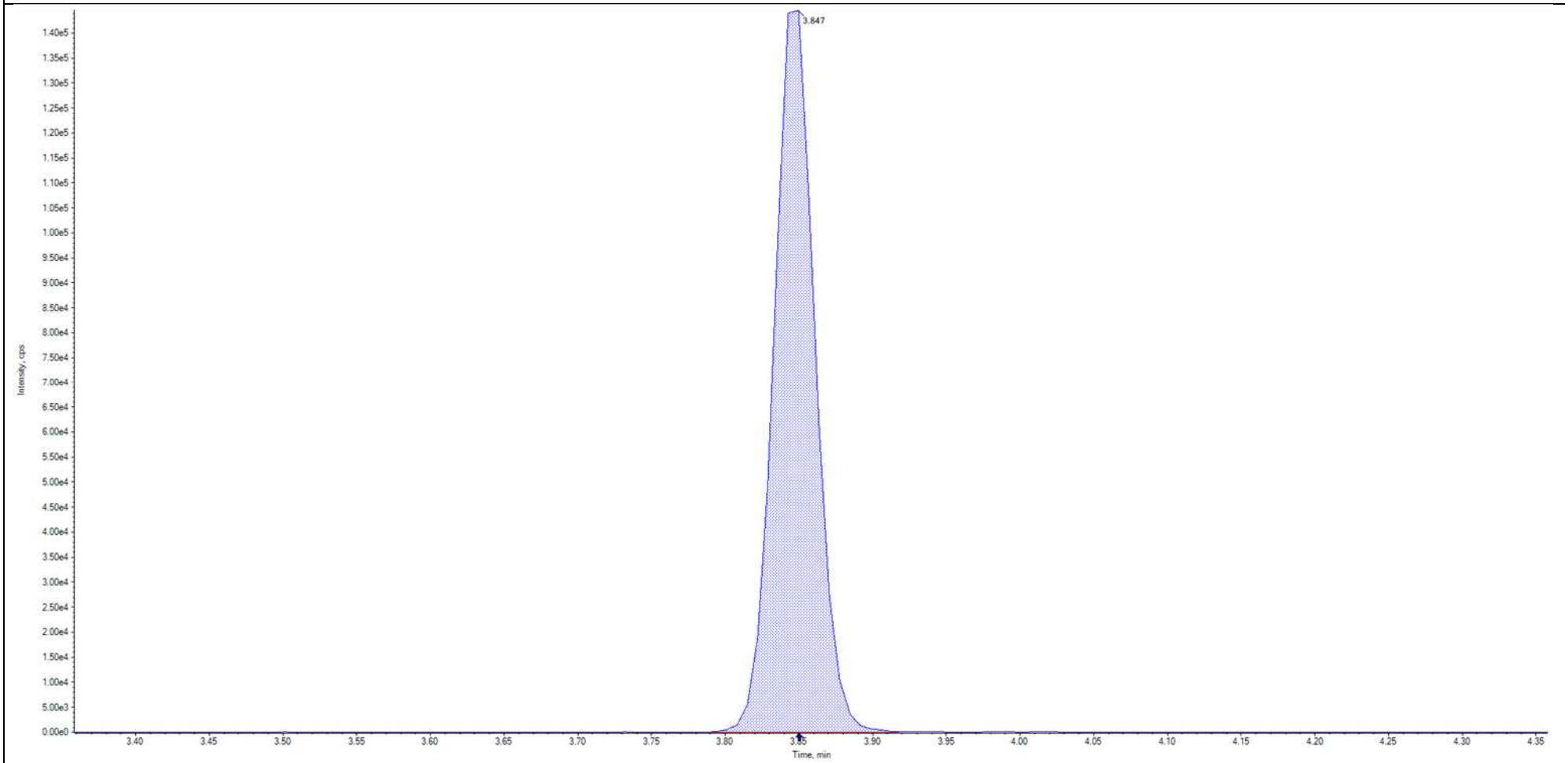
13C8-PFOA
Sample: IA1633STD-2.5



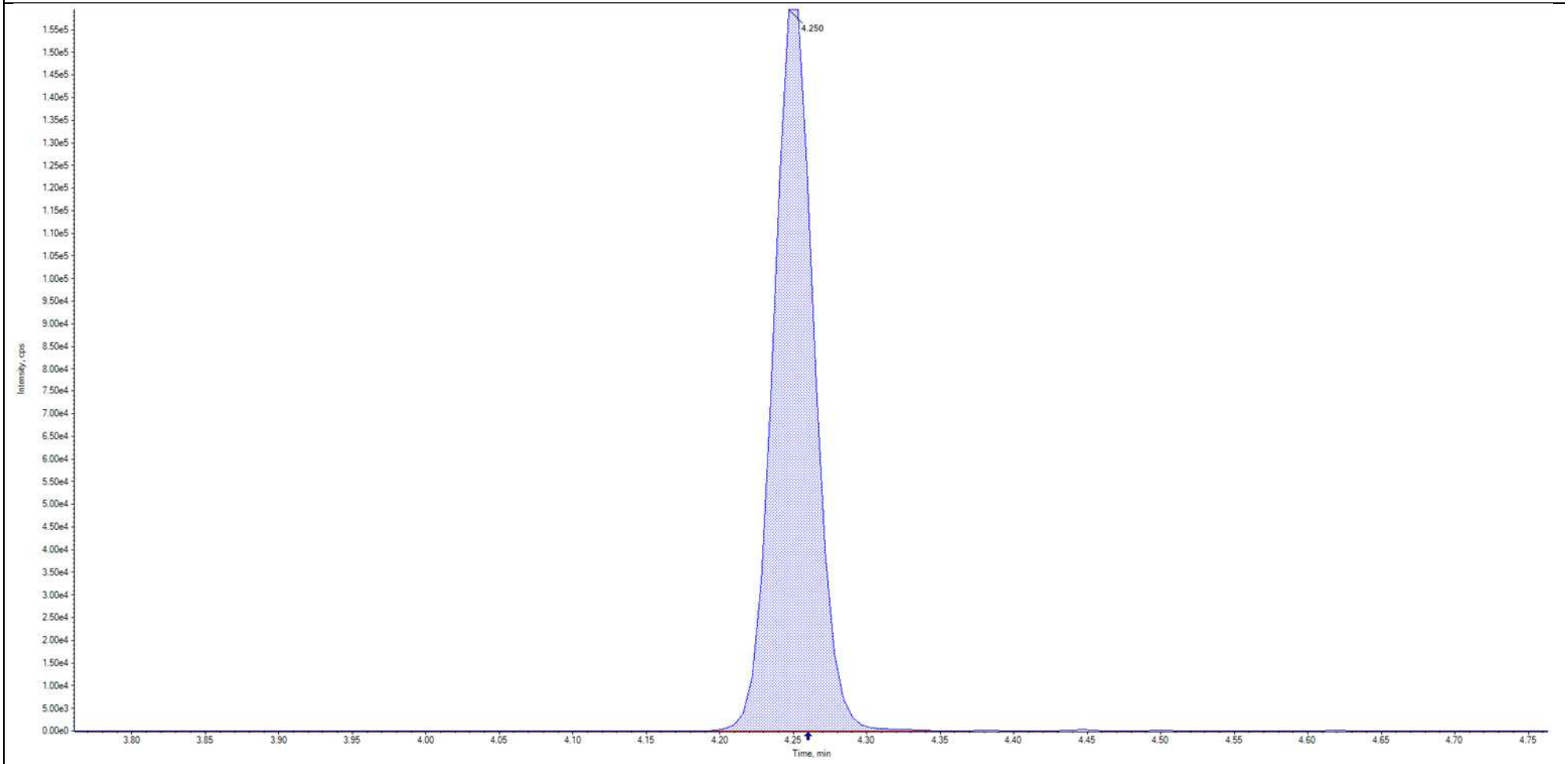
13C9-PFNA
Sample: IA1633STD-2.5



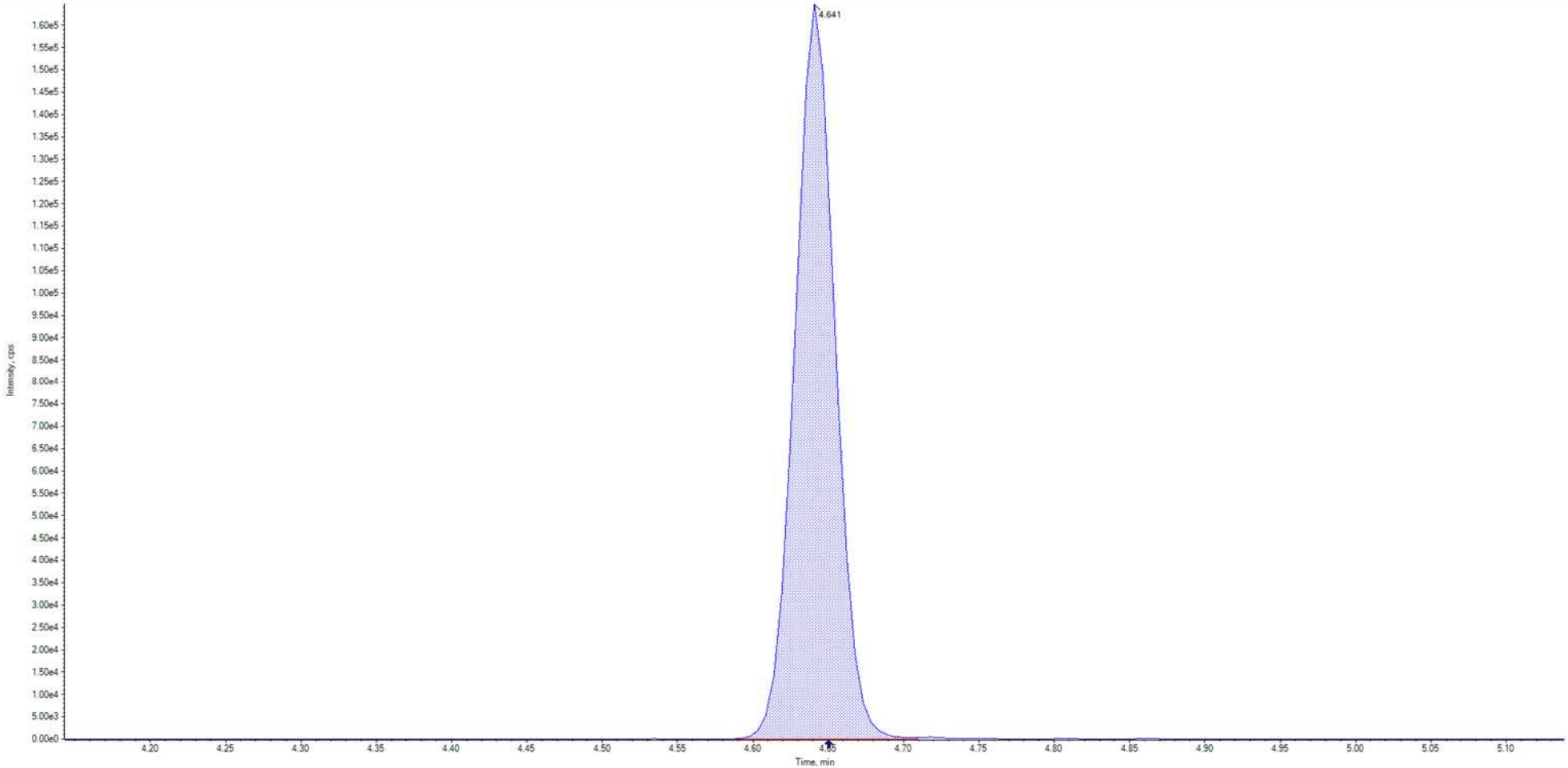
13C6-PFDA
Sample: IA1633STD-2.5



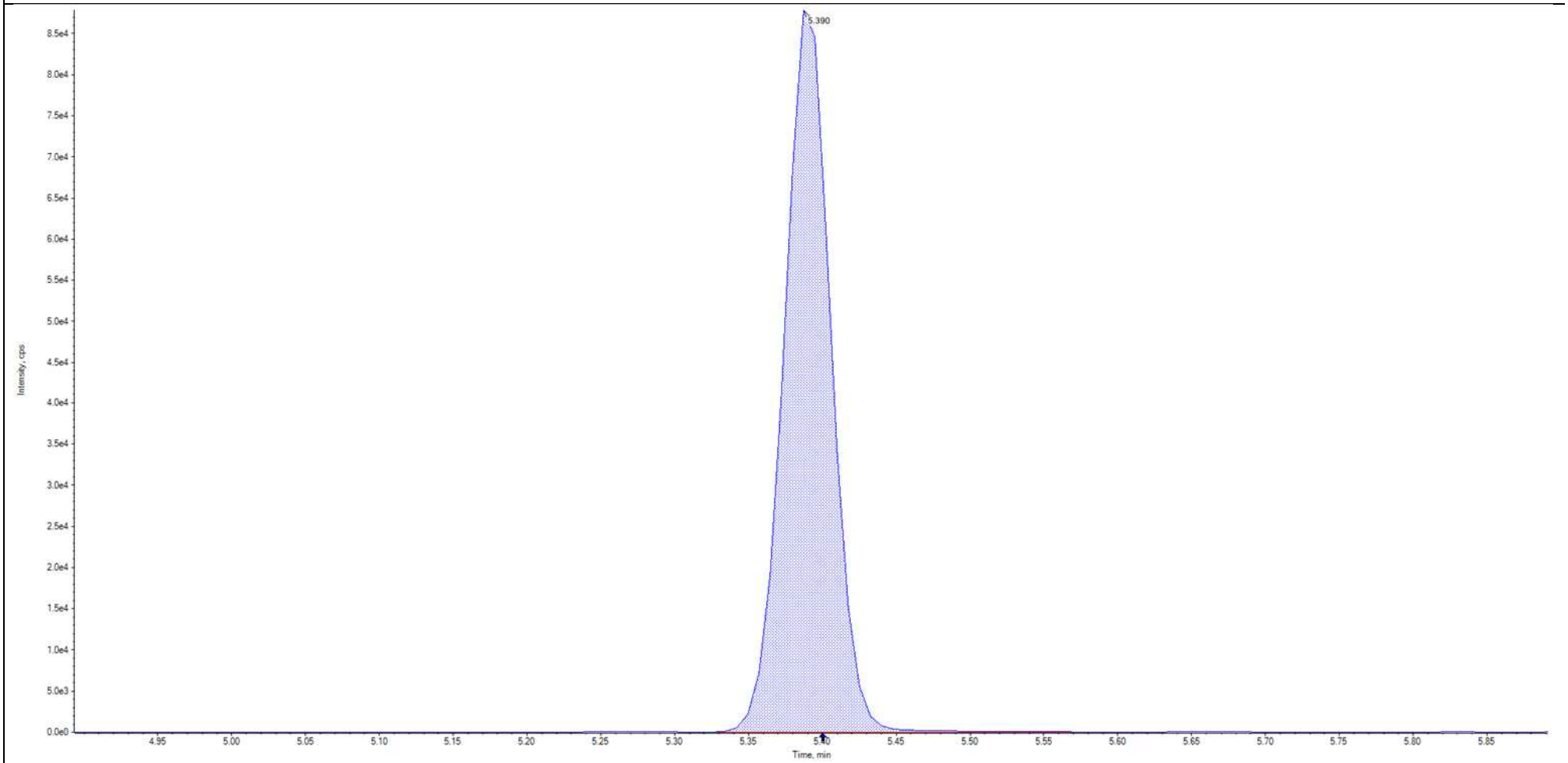
13C7-PFUnA
Sample: IA1633STD-2.5



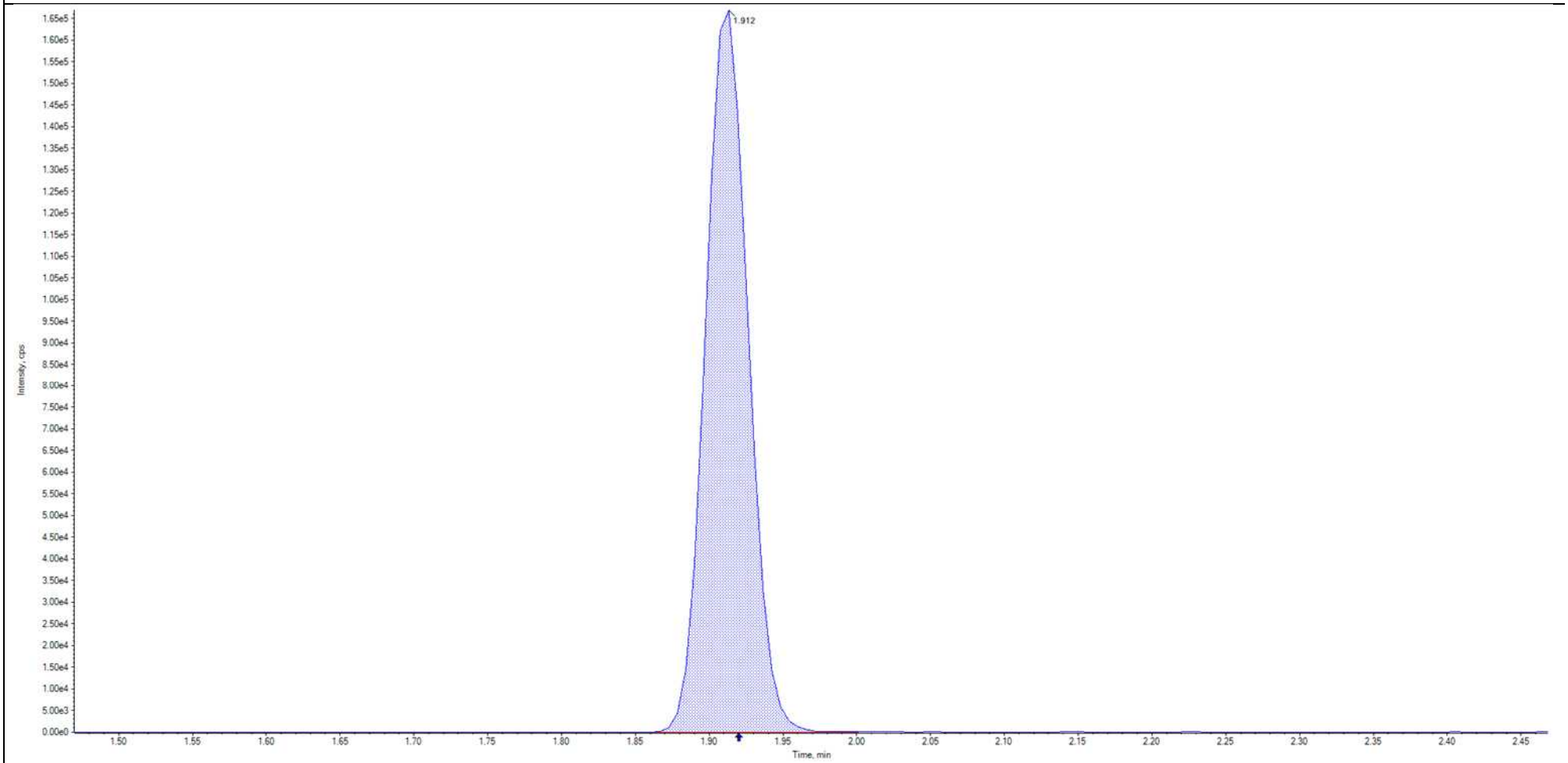
13C2-PFDoA
Sample: IA1633STD-2.5



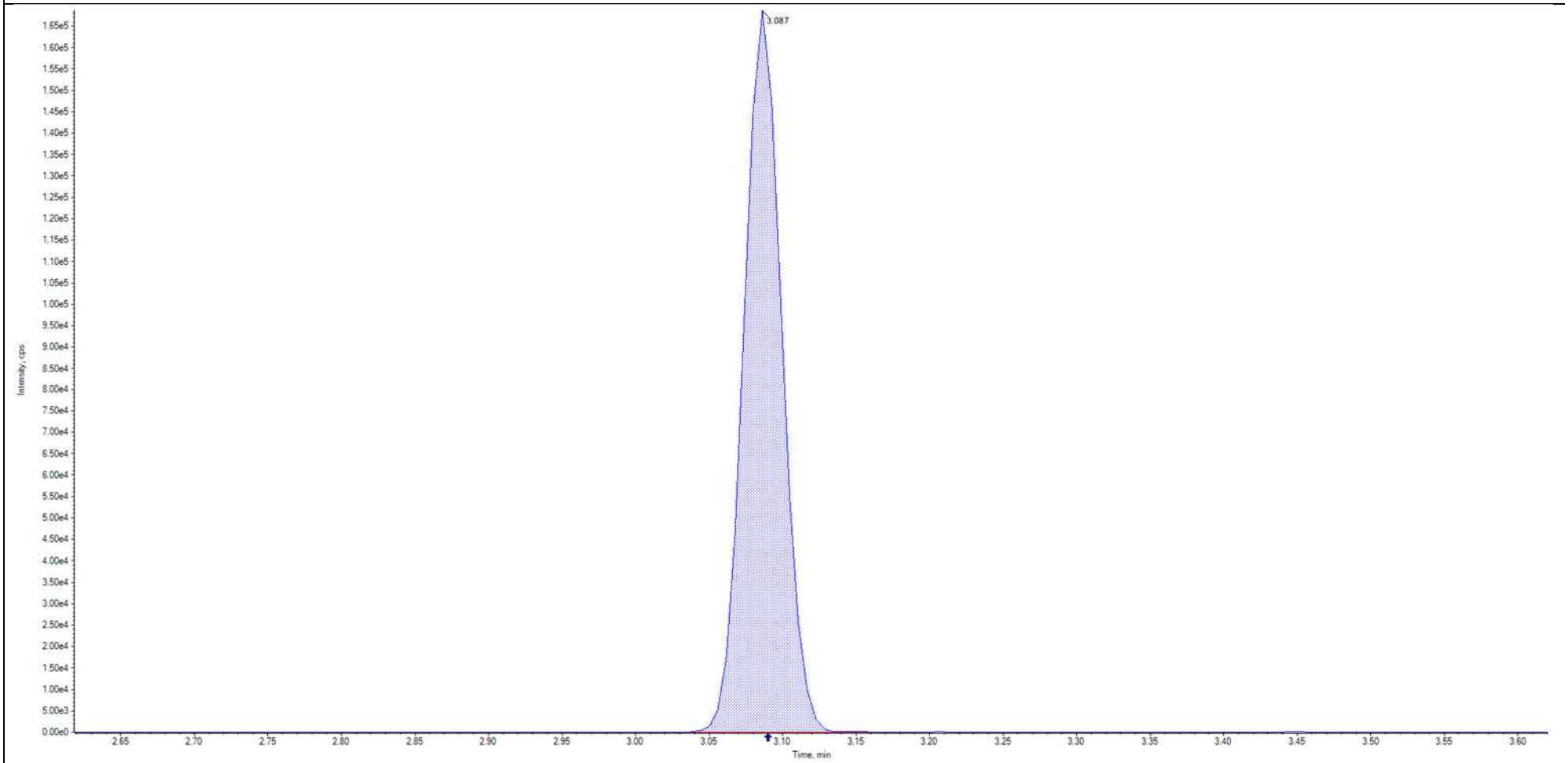
13C2-PFTeDA
Sample: IA1633STD-2.5



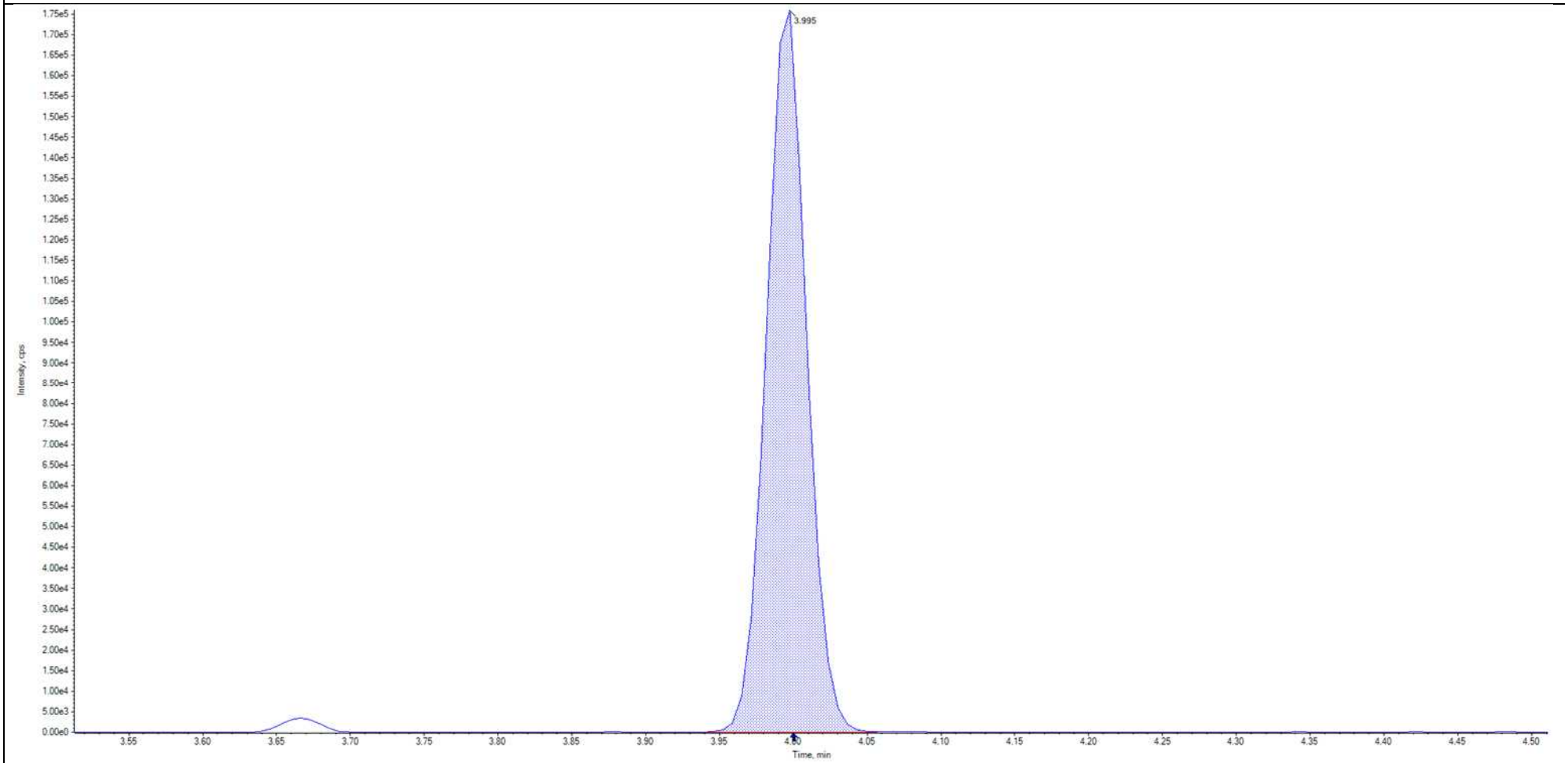
13C3-PFBS
Sample: IA1633STD-2.5



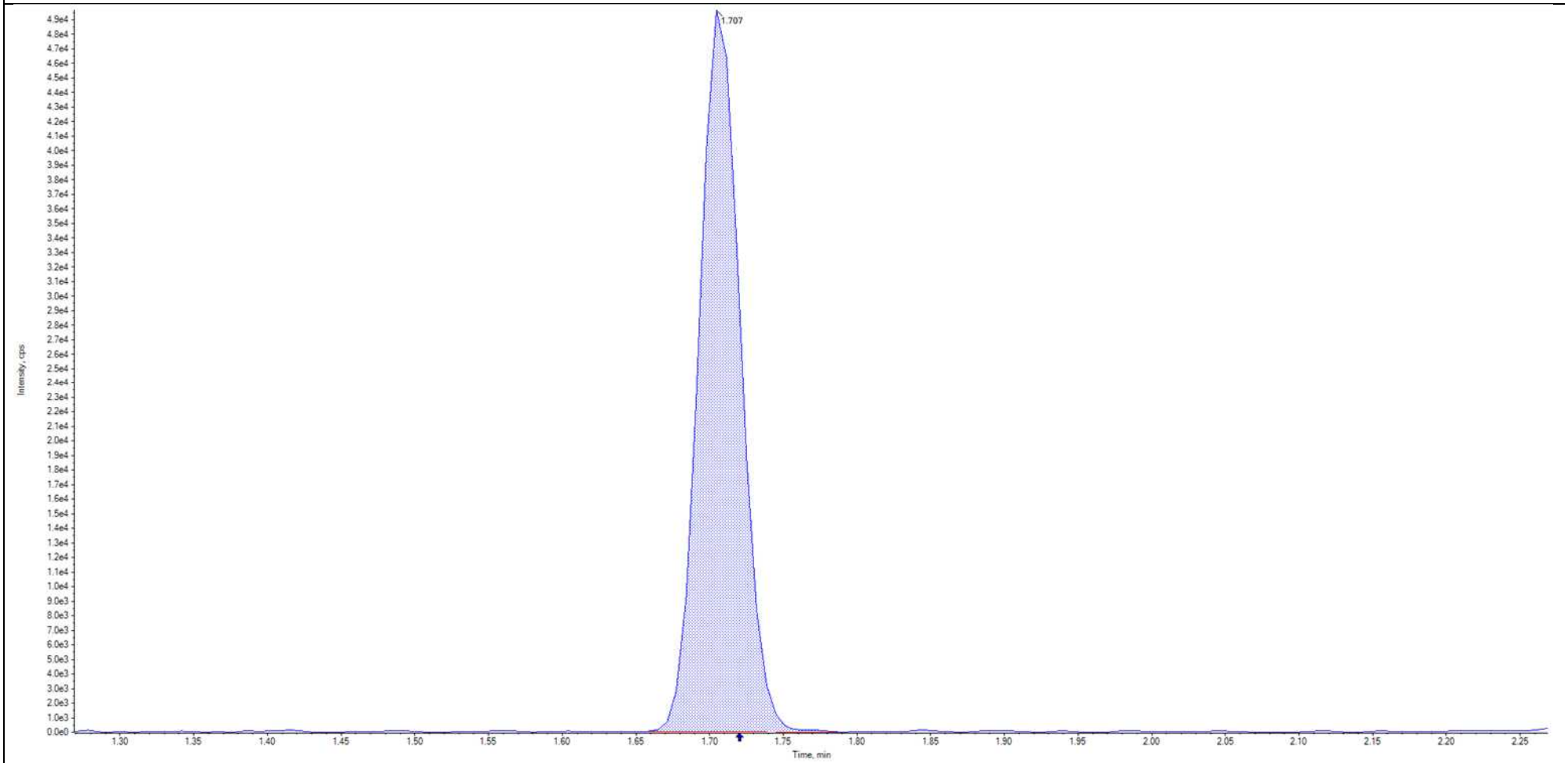
13C3-PFHxS
Sample: IA1633STD-2.5



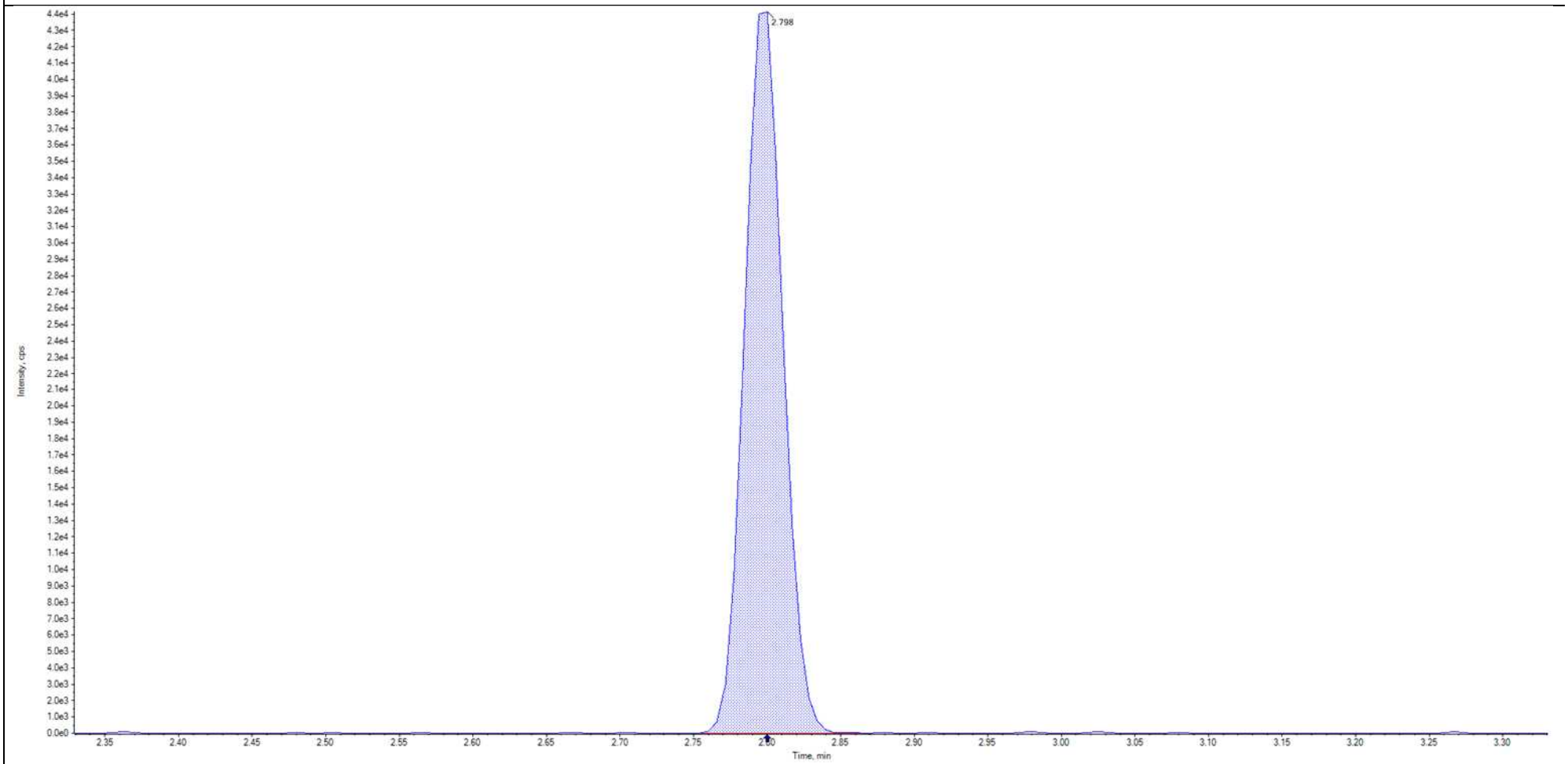
13C8-PFOS
Sample: IA1633STD-2.5



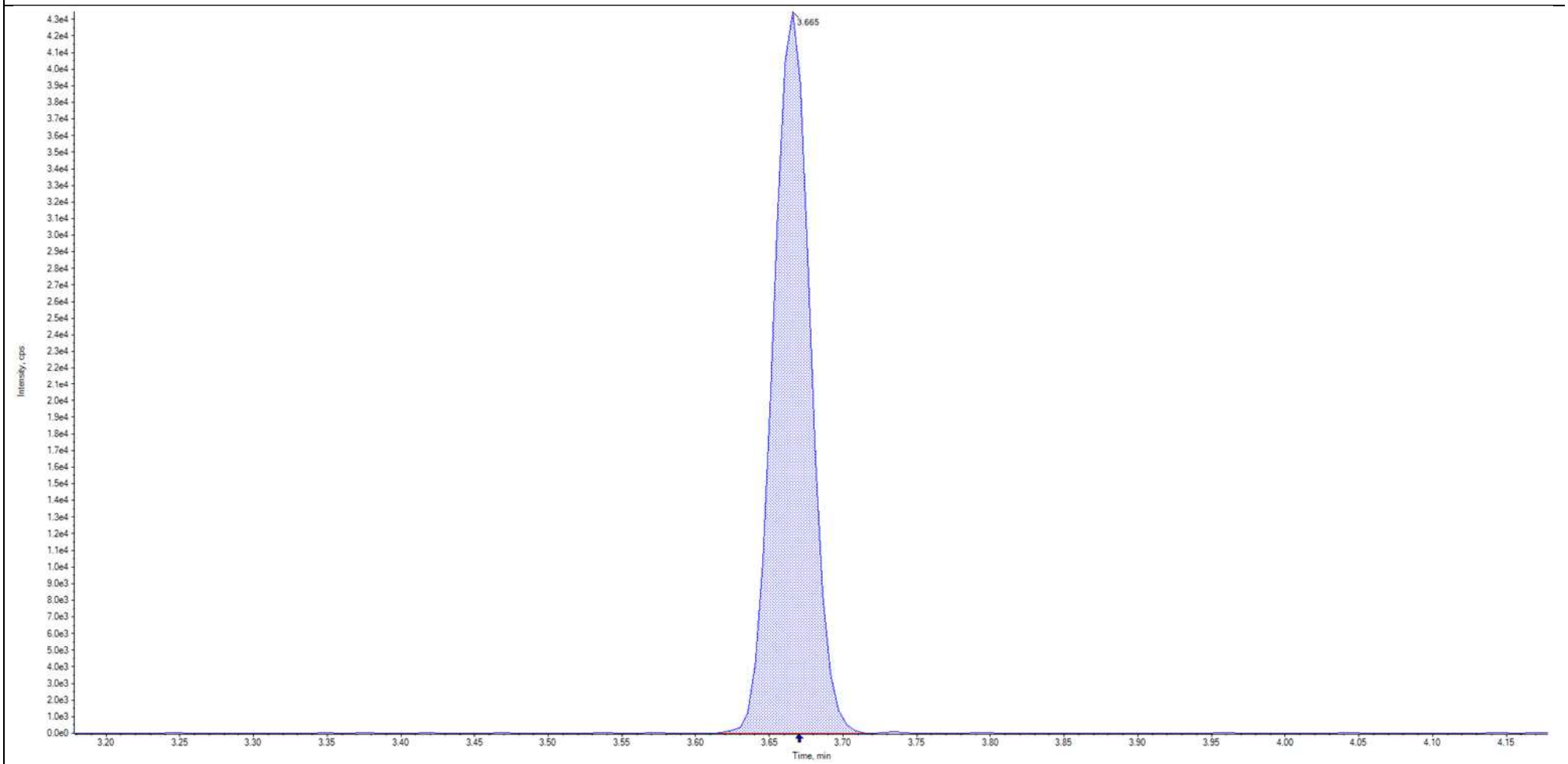
13C2-4:2FTS
Sample: IA1633STD-2.5



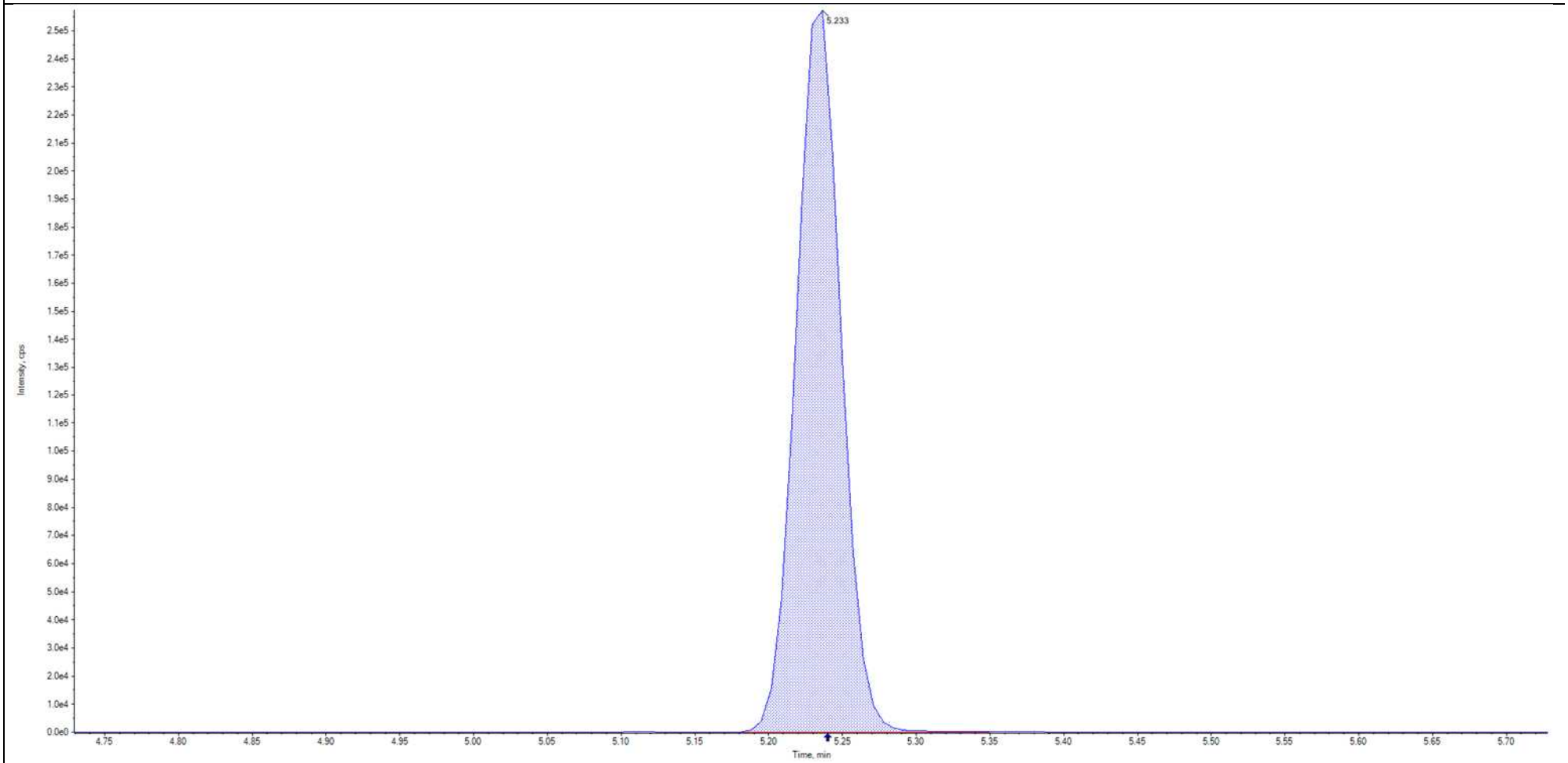
13C2-6:2FTS
Sample: IA1633STD-2.5



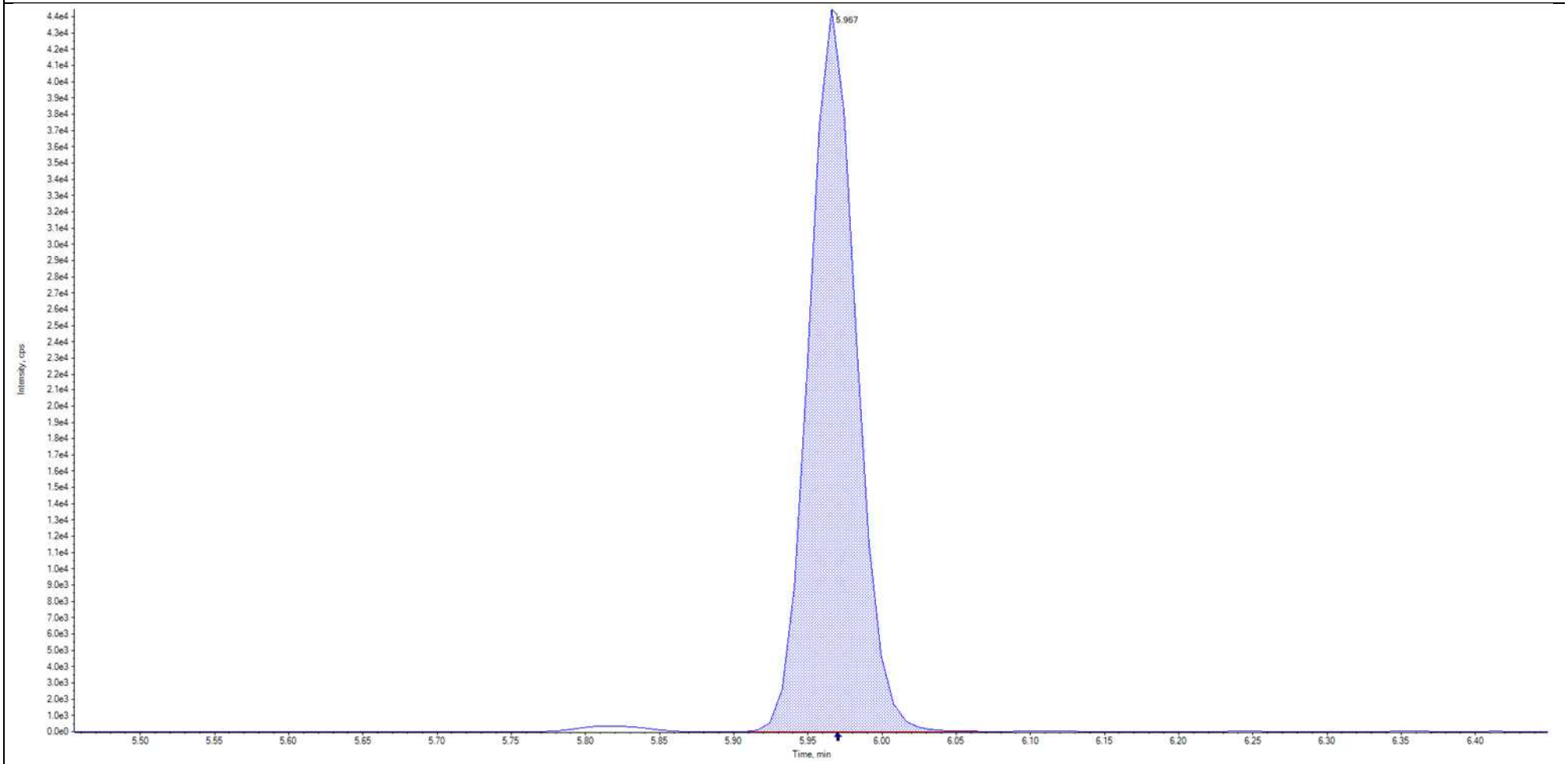
13C2-8:2FTS
Sample: IA1633STD-2.5



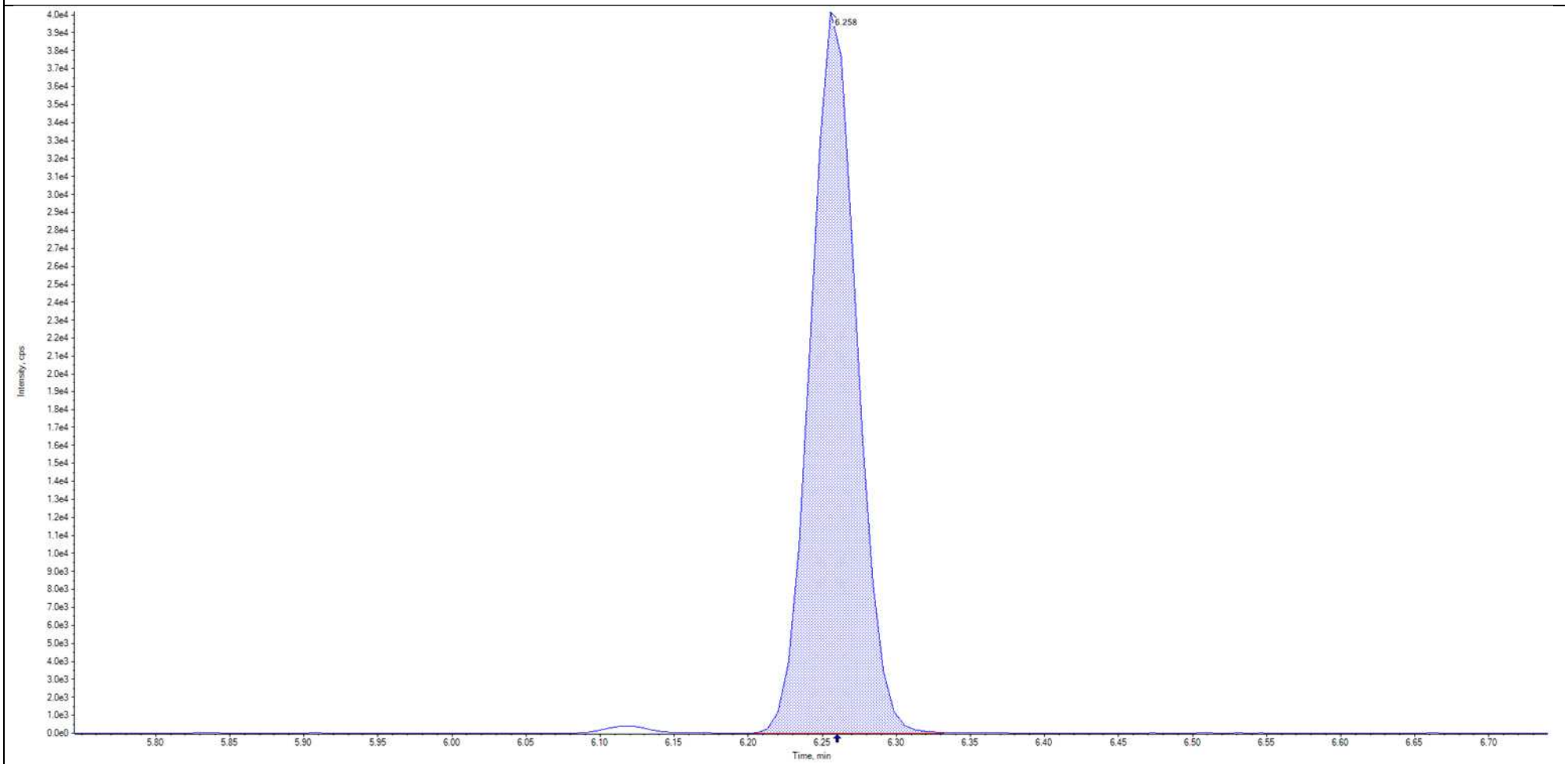
13C8-PFOSA
Sample: IA1633STD-2.5



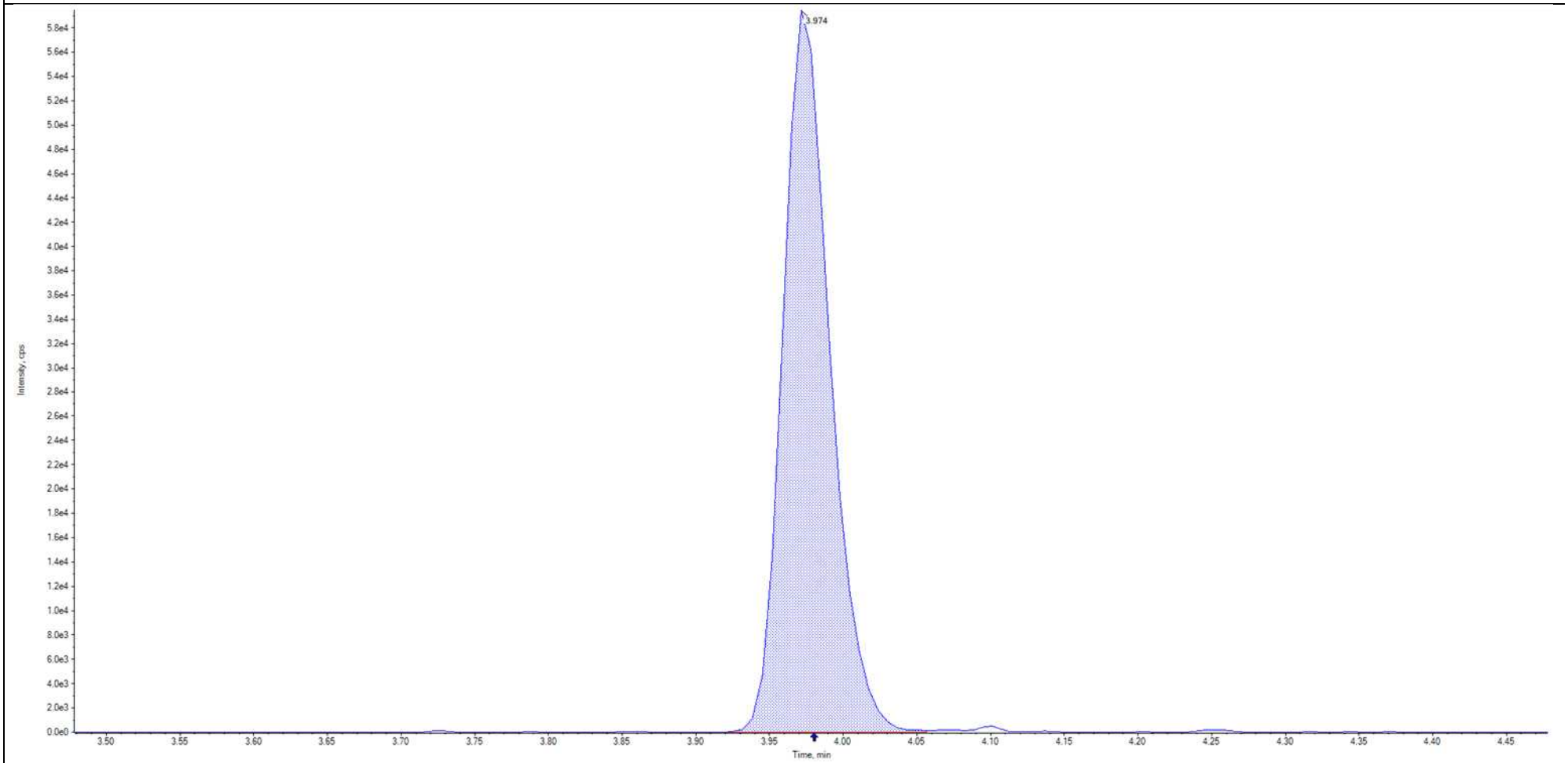
d3-NMeFOSA
Sample: IA1633STD-2.5



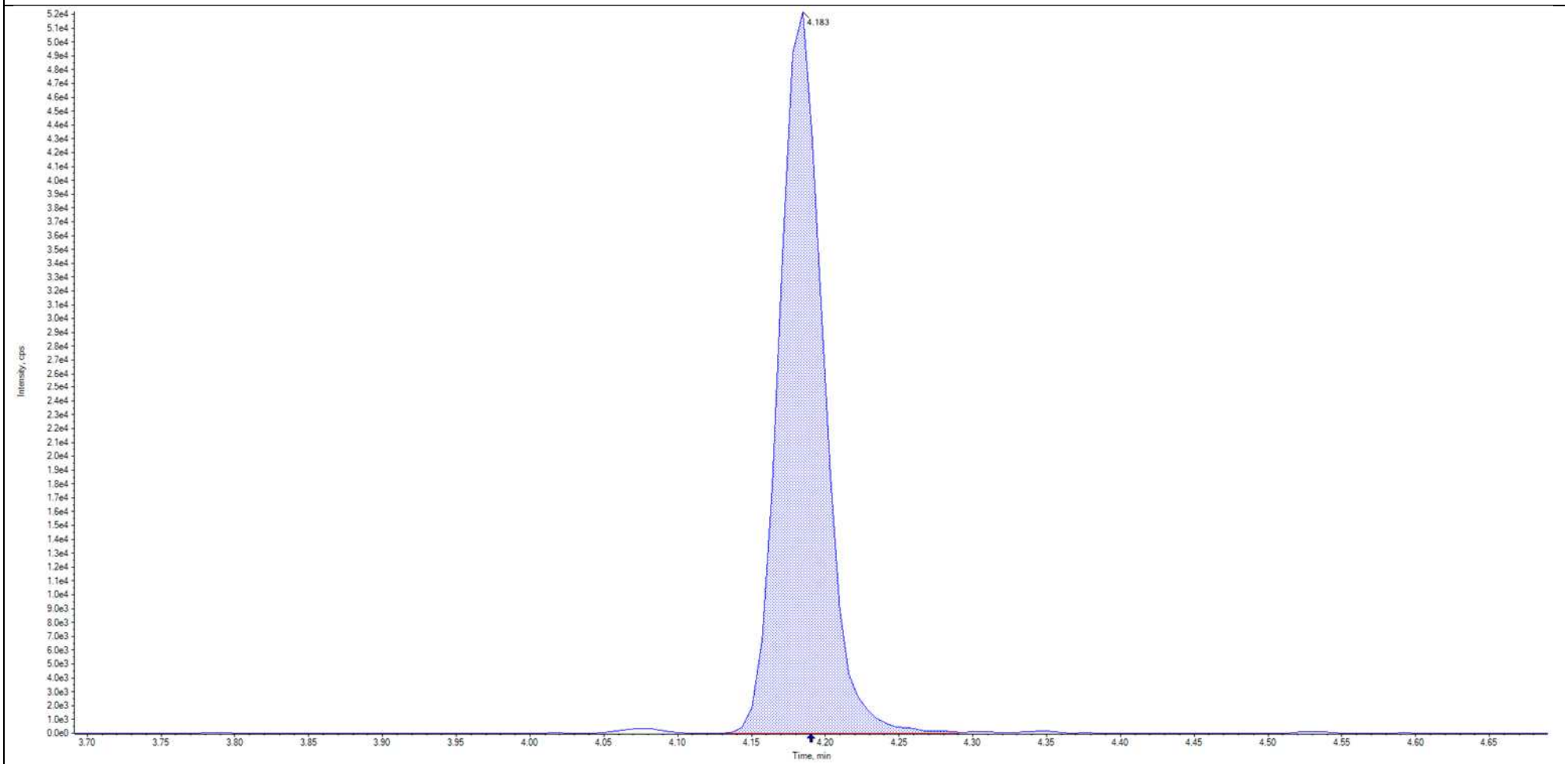
d5-NEtFOSA
Sample: IA1633STD-2.5



d3-NMeFOSAA
Sample: IA1633STD-2.5

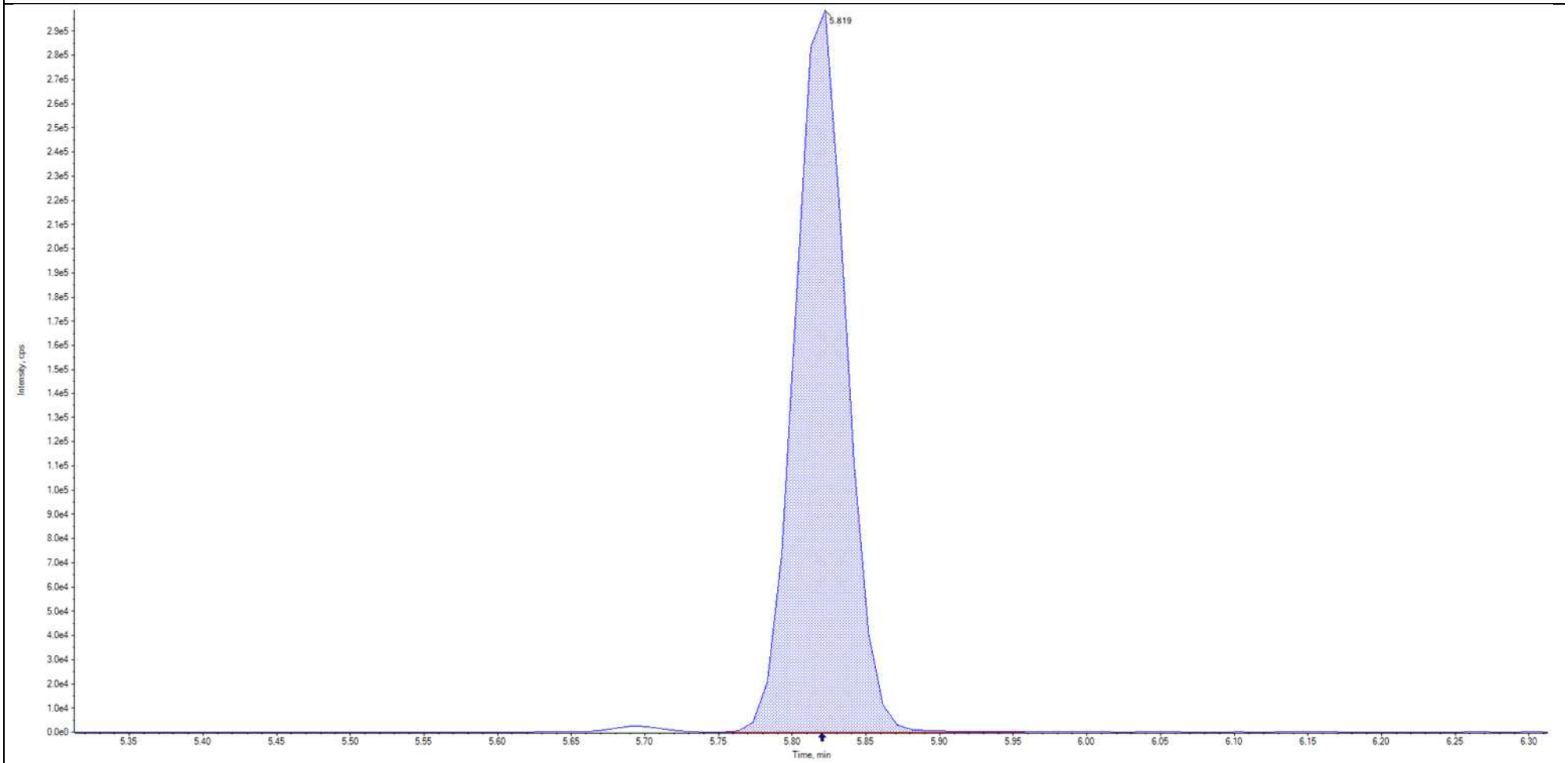


d5-NEtFOSAA
Sample: IA1633STD-2.5

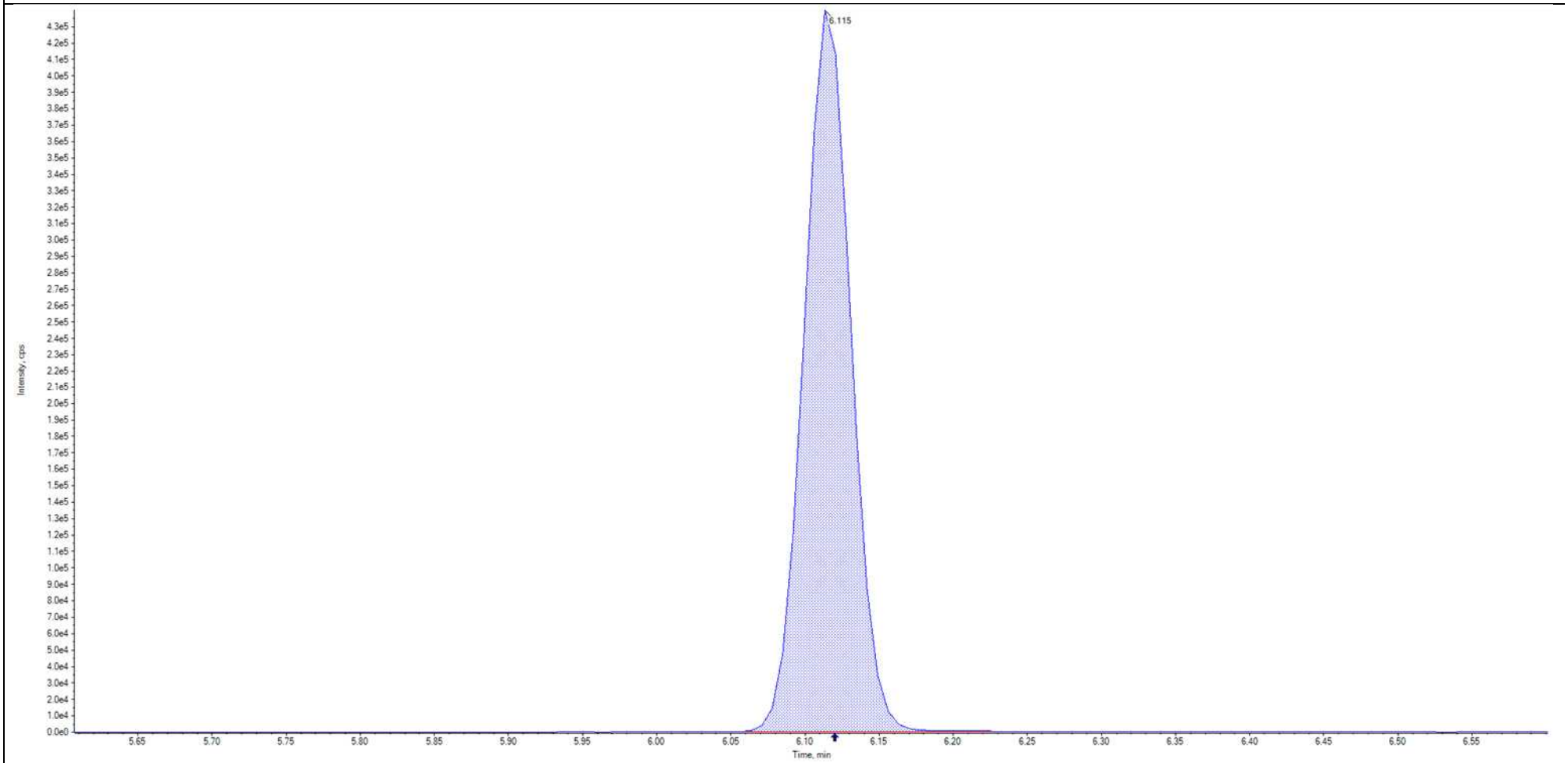


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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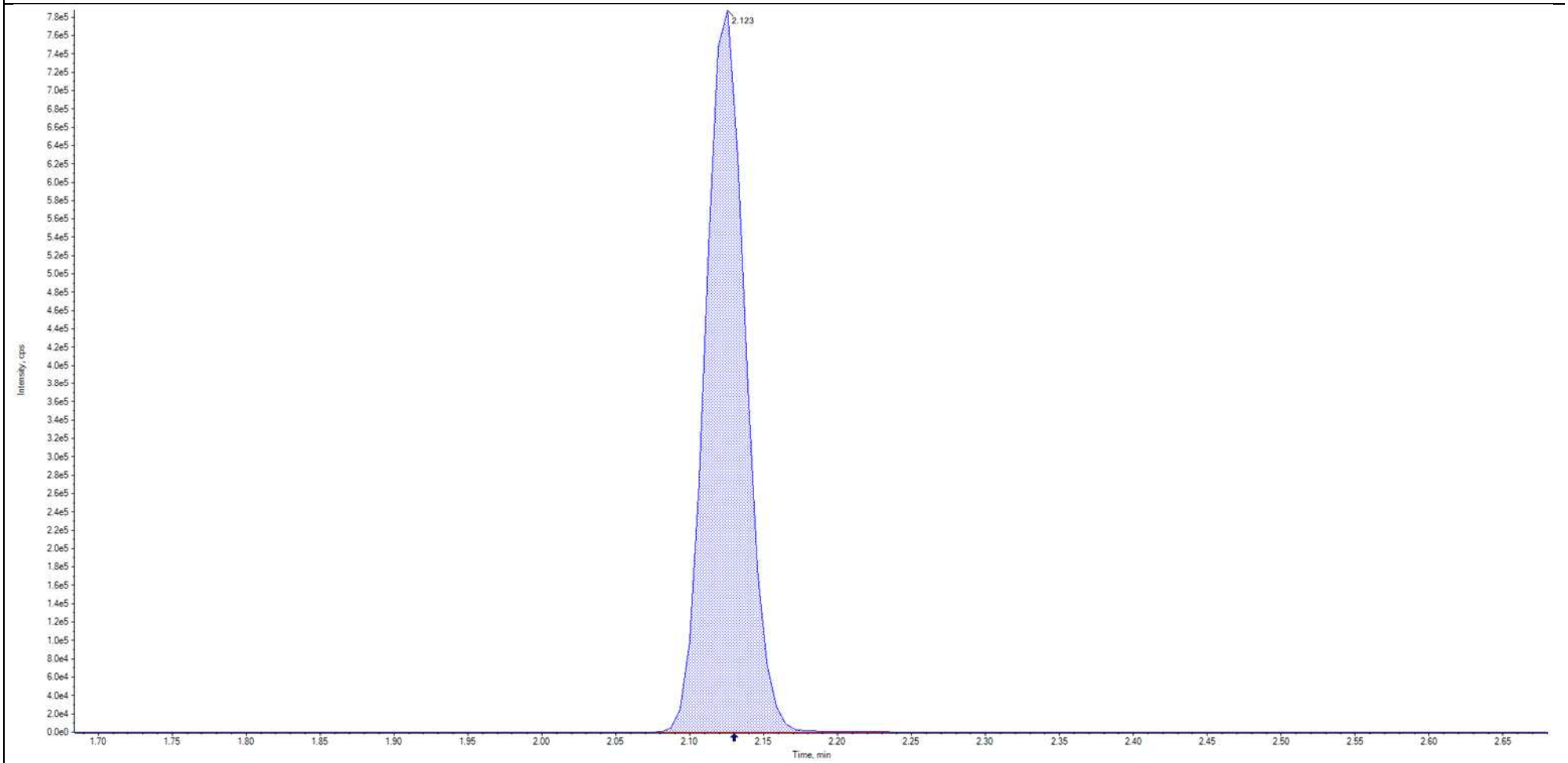
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Sample: IA1633STD-2.5



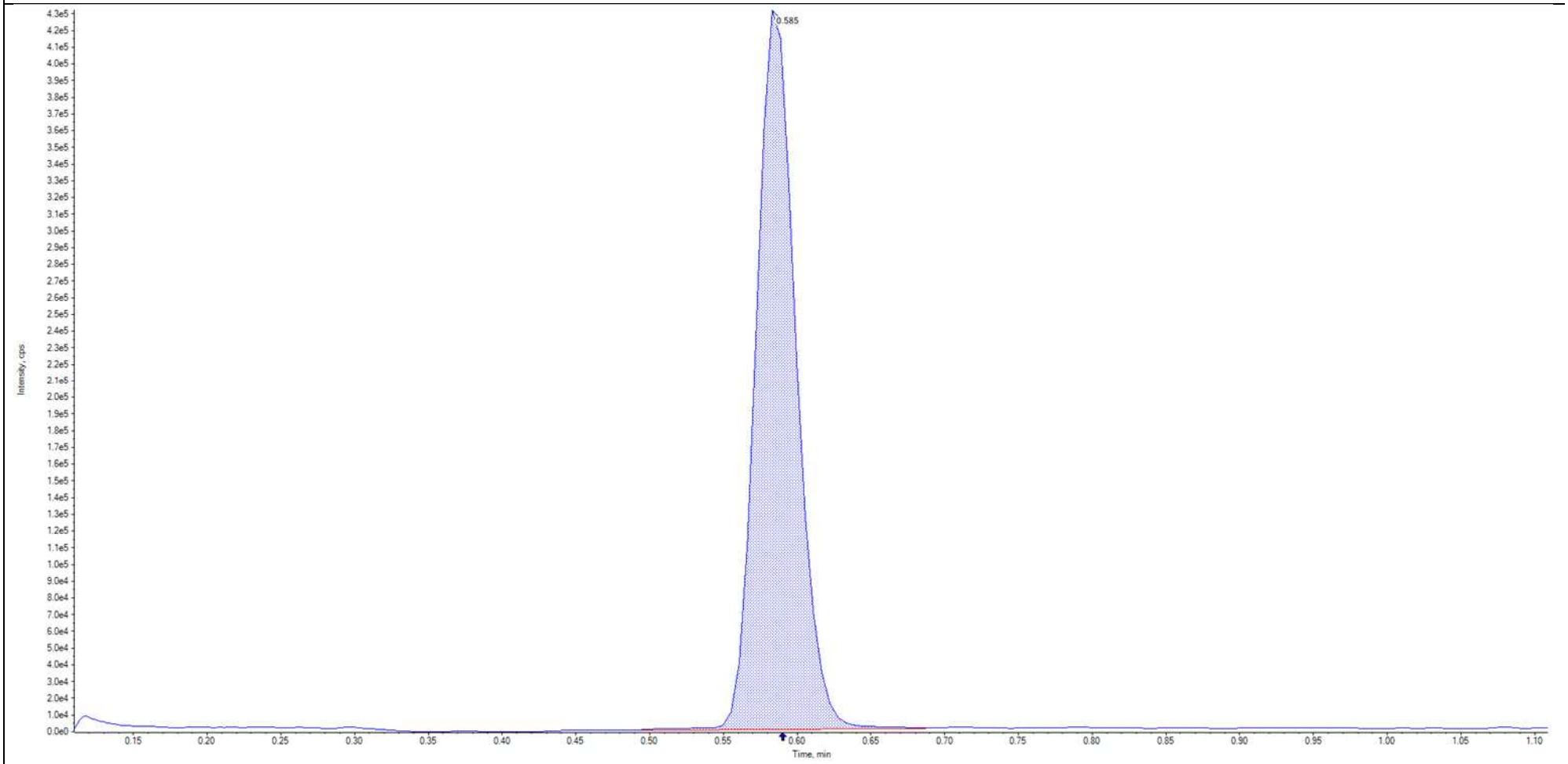
d9-NEtFOSE
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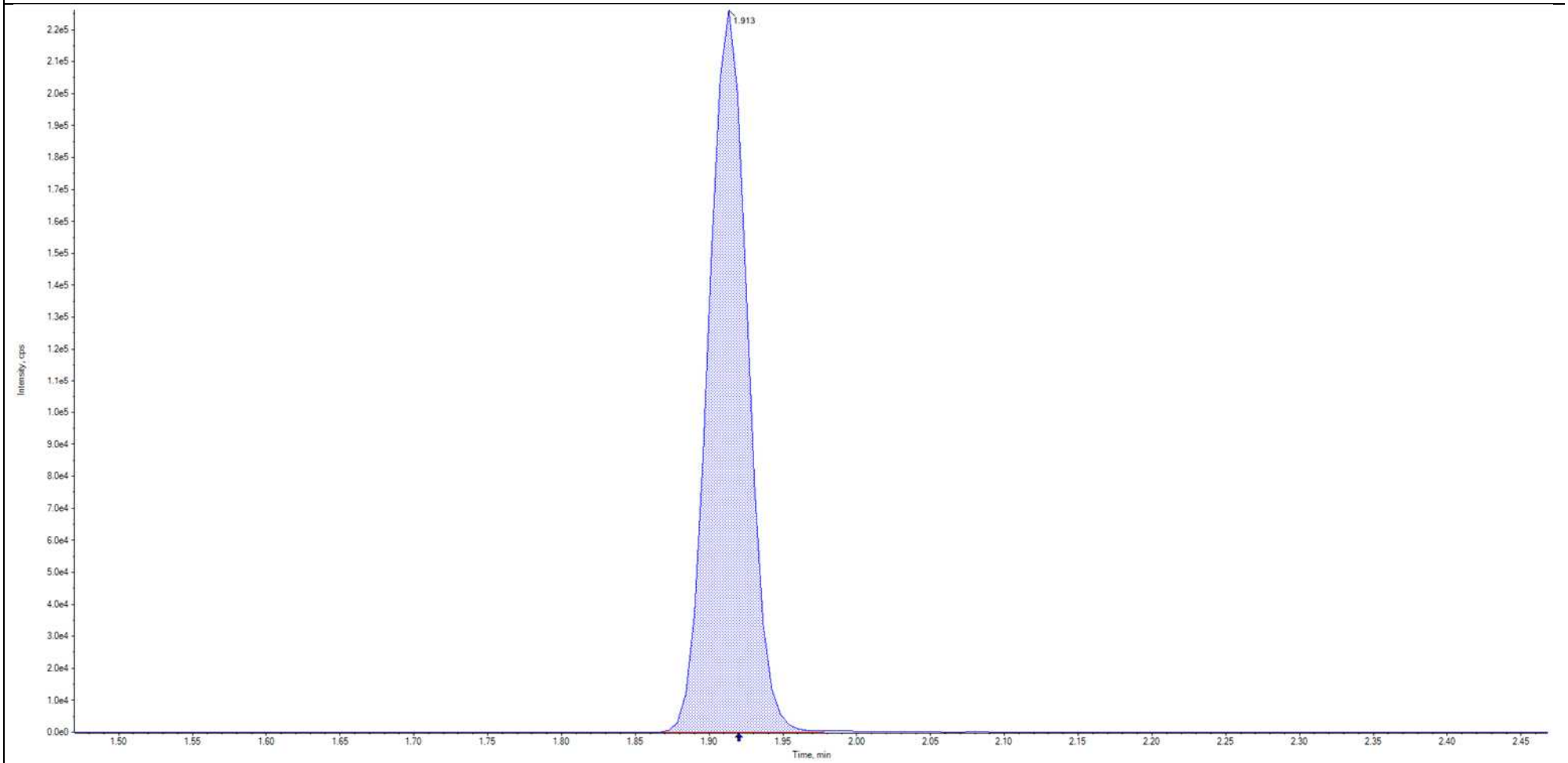
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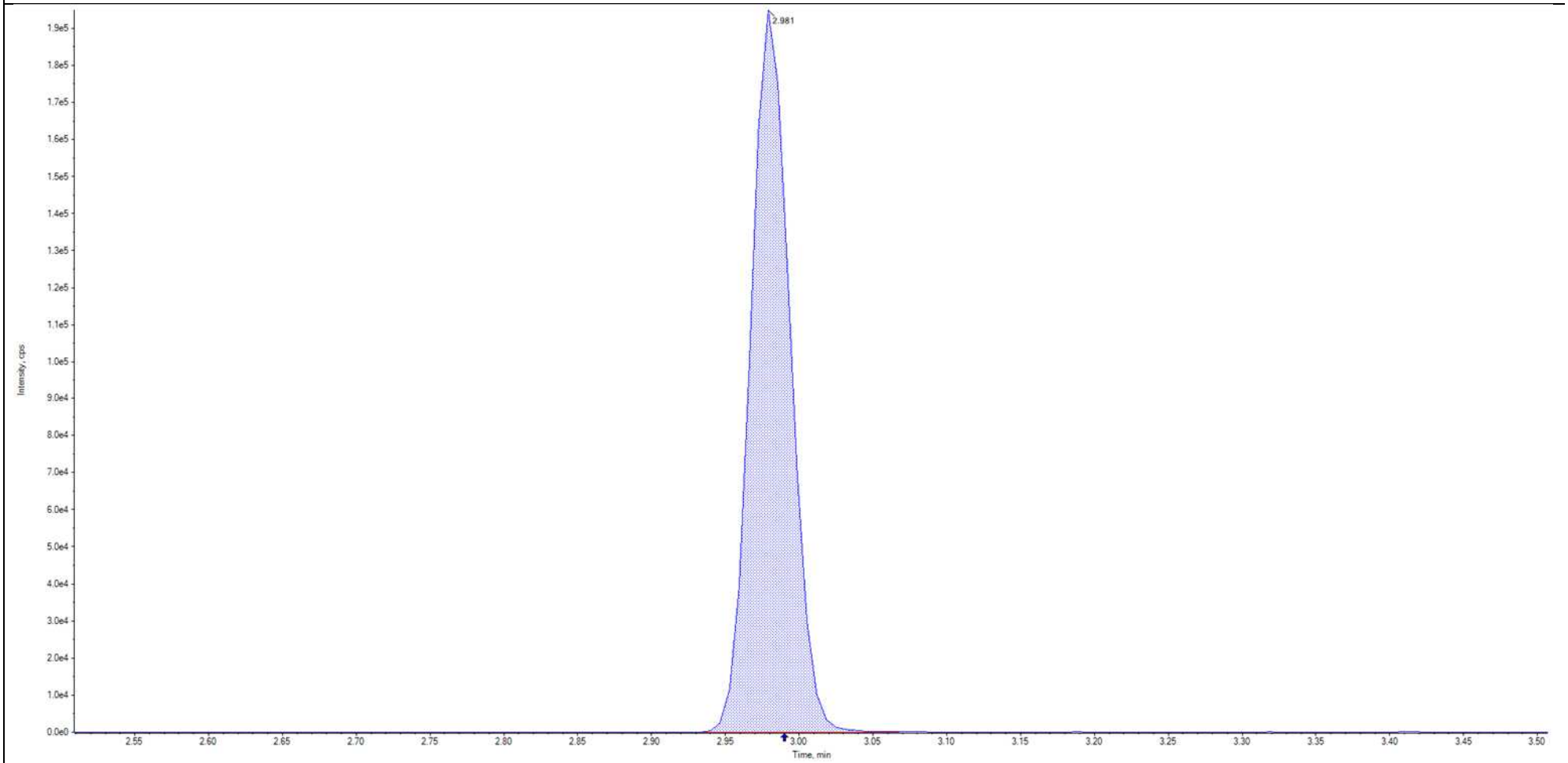
13C3-PFBA
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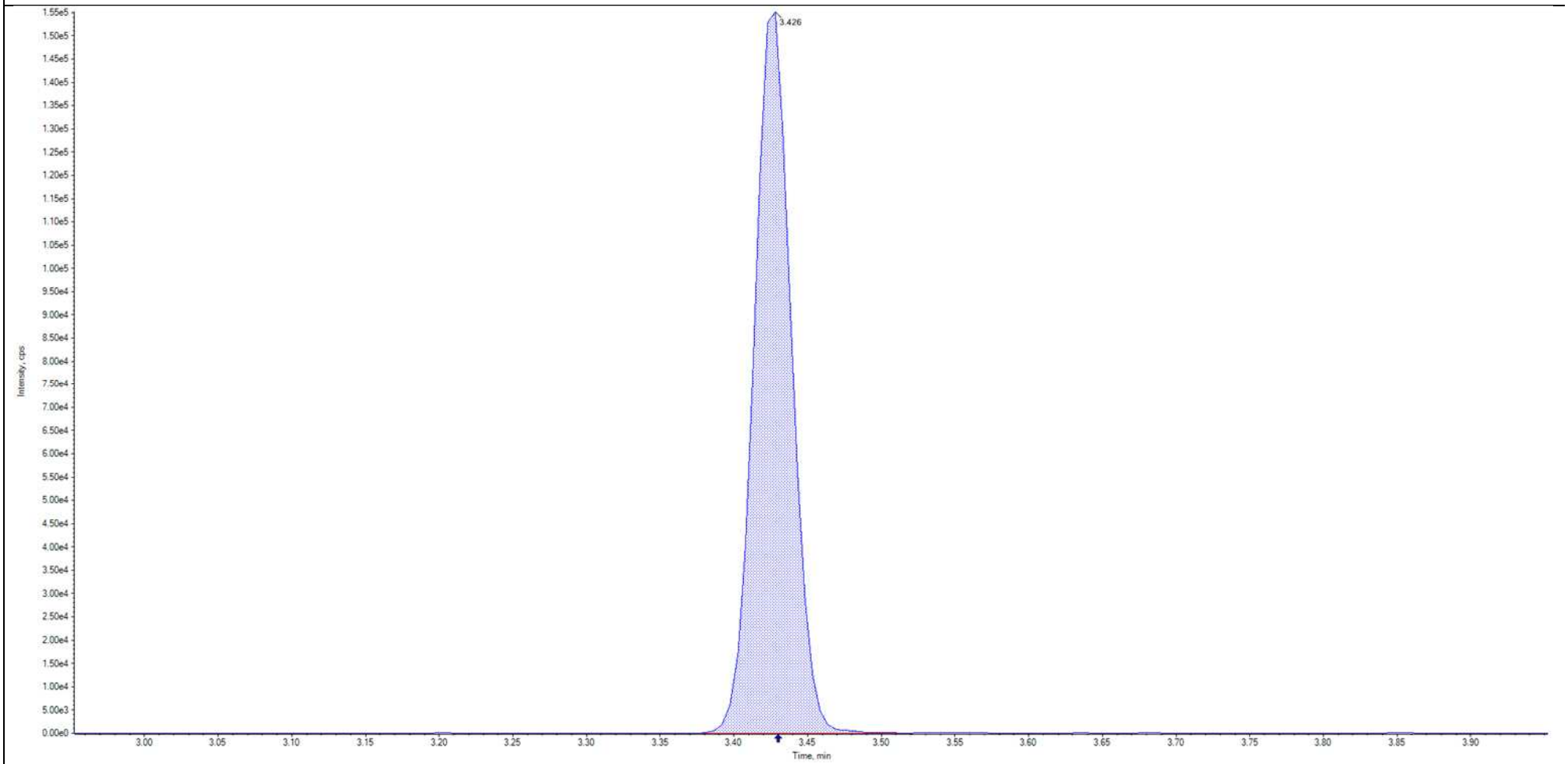
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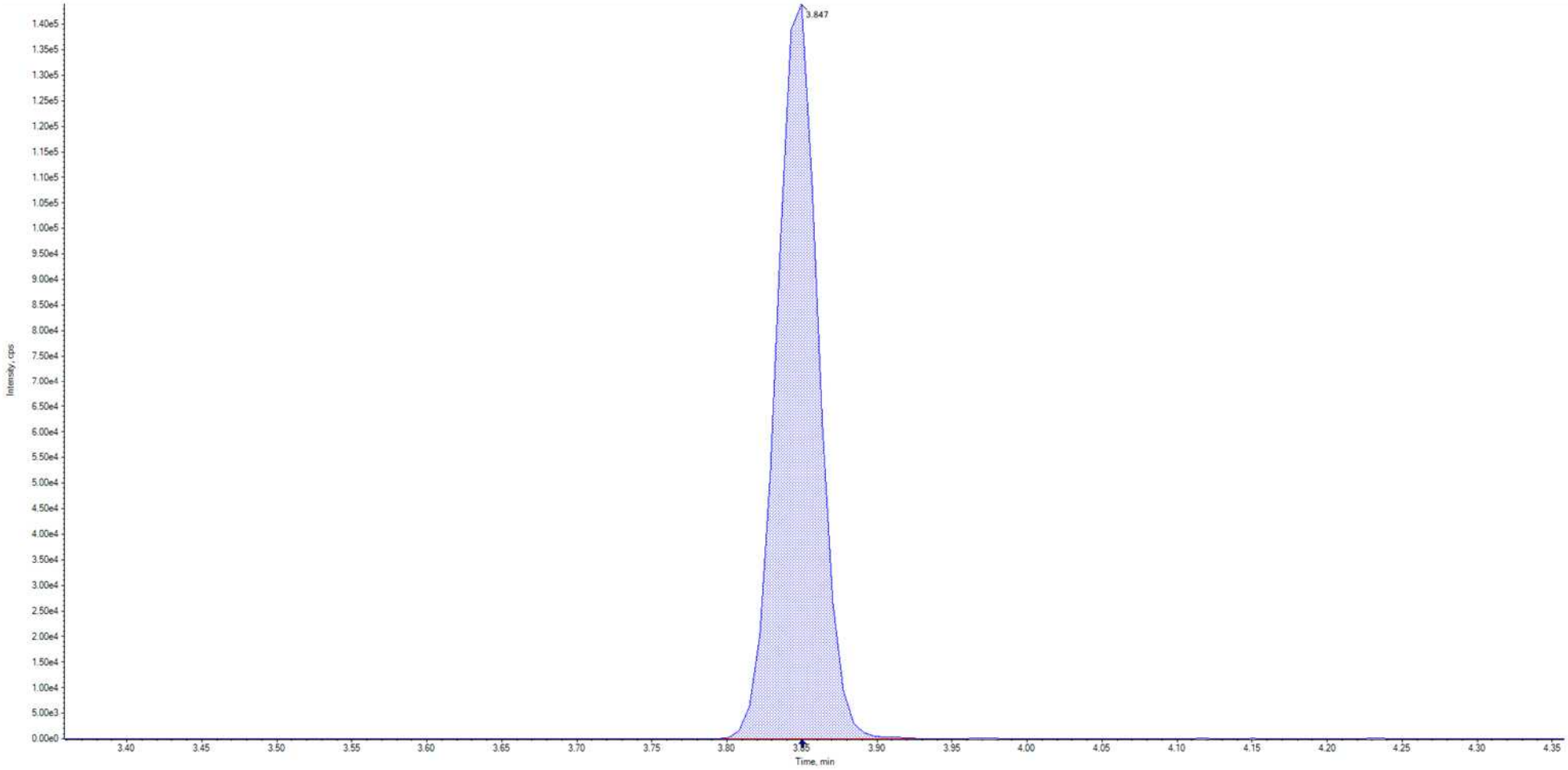
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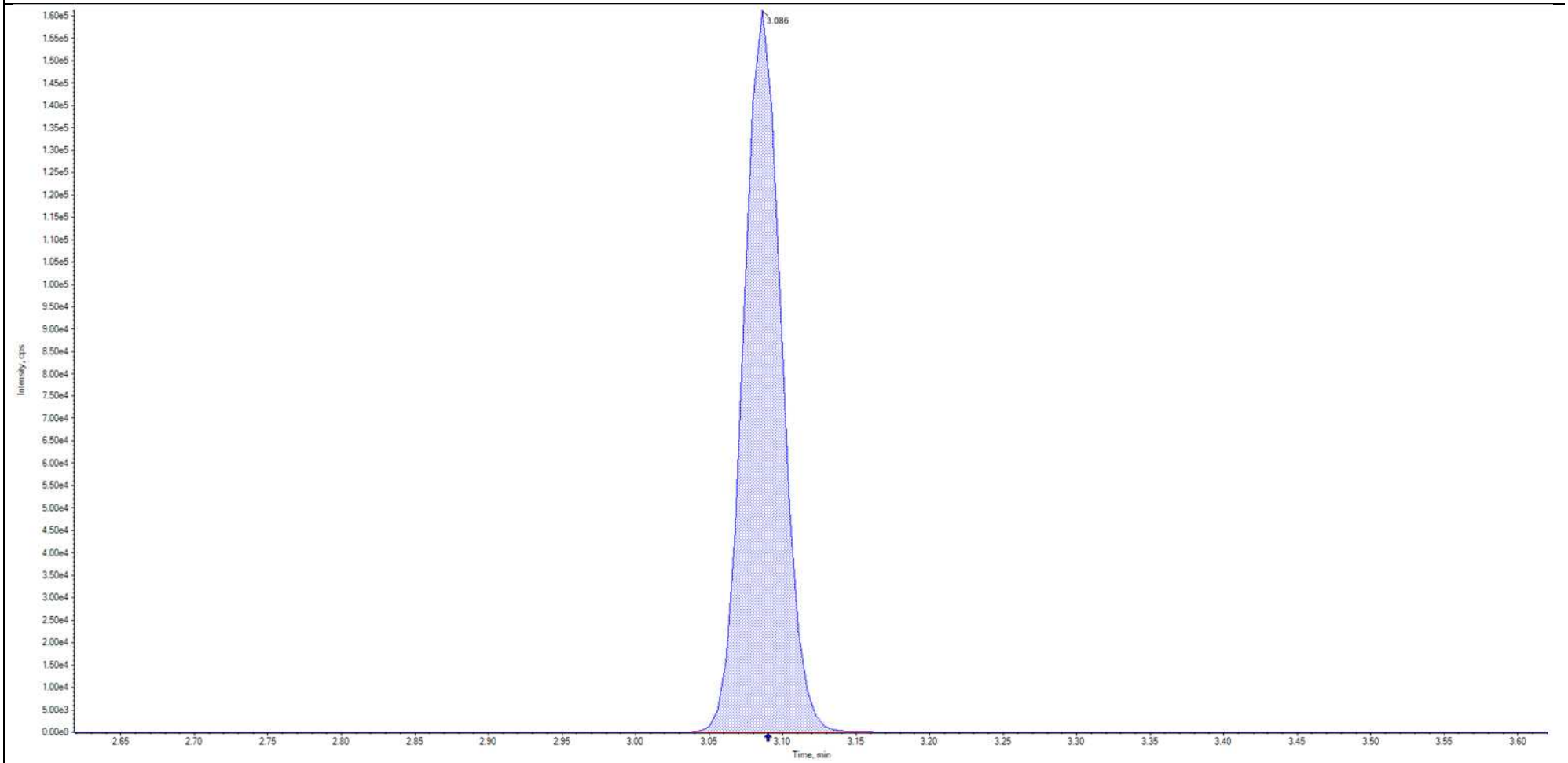
13C5-PFNA
Sample: IA1633STD-2.5



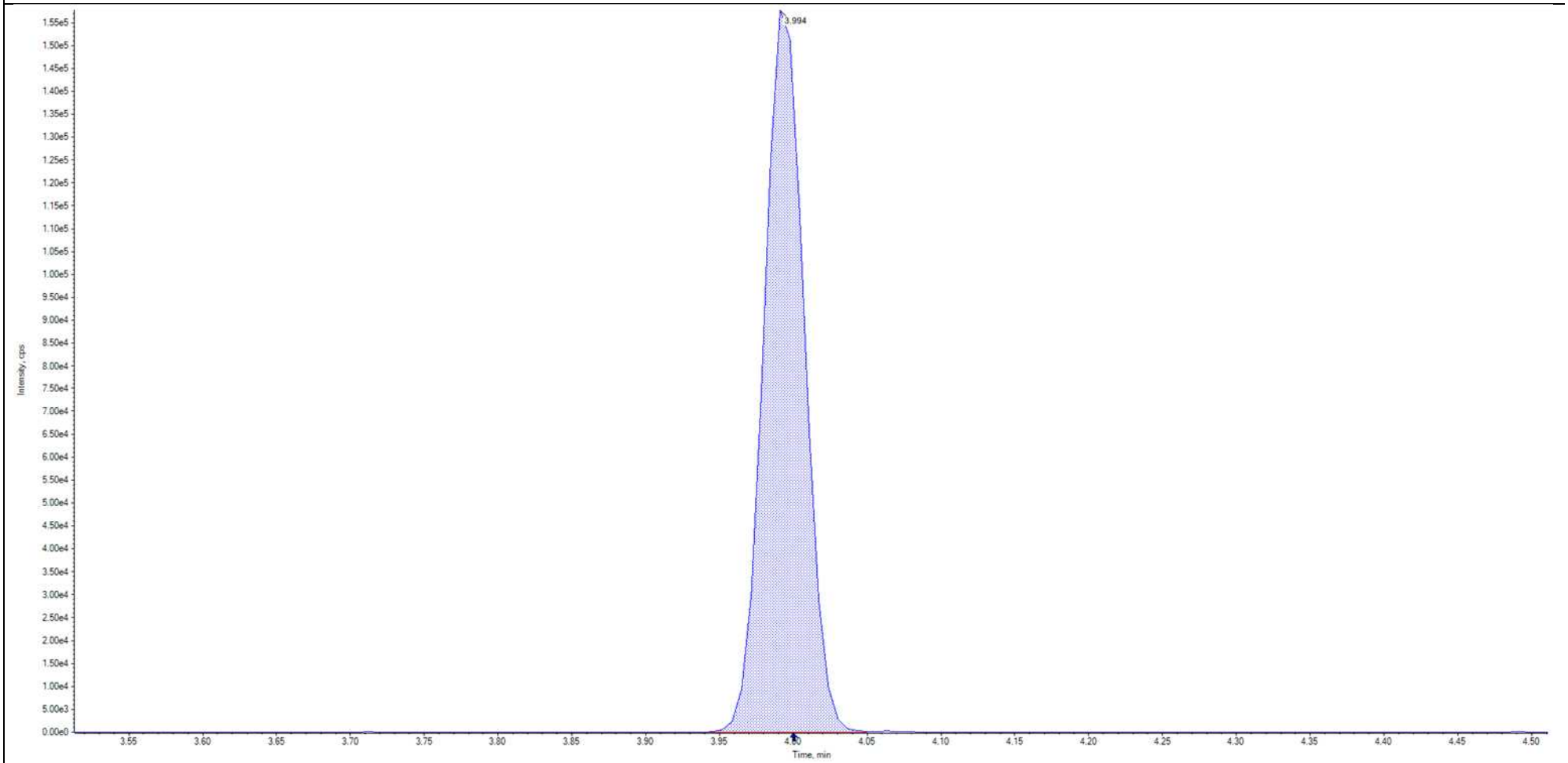
13C2-PFDA
Sample: IA1633STD-2.5



18O2-PFHxS
Sample: IA1633STD-2.5



13C4-PFOS
Sample: IA1633STD-2.5



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

ID: IA1633STD-5
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Description: WG2035972,,EPA1633F_250303_CAL_L5
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:JW

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.60	213.0 / 169.0	3301288		19.512	N/A	N/A	N/A	97.6
2	PFPeA	2706-90-3	1.19	263.0 / 219.0	1536865		9.820	0.007	N/A	N/A	98.2
3	PFPeA_2	2706-90-3	1.19	263.0 / 68.9	10911		9.940	0.007	N/A	N/A	99.4
4	PFHxA	307-24-4	1.93	313.0 / 269.0	993215		5.196	0.081	0.081	Pass	103.9
5	PFHxA_2	307-24-4	1.93	313.0 / 119.0	80051		4.925	0.081	0.081	Pass	98.5
6	PFHpA	375-85-9	2.50	363.1 / 319.0	1081988		4.861	0.373	0.373	Pass	97.2
7	PFHpA_2	375-85-9	2.50	363.1 / 169.0	404059		4.598	0.373	0.373	Pass	92.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	2.99	413.1 / 369.1	1059244	M5	4.998	0.424	0.424	Pass	100.0
9	PFOA_2	335-67-1	2.99	413.1 / 169.0	449450	M5	5.011	0.424	0.424	Pass	100.2
10	PFNA	375-95-1	3.44	462.8 / 418.9	754244	M5	5.227	0.493	0.493	Pass	104.5
11	PFNA_2	375-95-1	3.44	462.8 / 219.0	371579	M5	5.288	0.493	0.493	Pass	105.8
12	PFDA	335-76-2	3.86	513.1 / 469.1	1098134		5.116	0.188	0.188	Pass	102.3
13	PFDA_2	335-76-2	3.86	513.1 / 219.0	206664		5.229	0.188	0.188	Pass	104.6
14	PFUnA	2058-94-8	4.26	563.1 / 519.1	1126033		4.824	0.146	0.146	Pass	96.5
15	PFUnA_2	2058-94-8	4.26	563.1 / 269.0	164648		4.907	0.146	0.146	Pass	98.2
16	PFDoA	307-55-1	4.65	613.1 / 569.1	1285277		5.002	0.142	0.142	Pass	100.1
17	PFDoA_2	307-55-1	4.65	613.1 / 319.0	182330		5.149	0.142	0.142	Pass	103.0
18	PFTrDA	72629-94-8	5.03	663.1 / 619.1	1143113		5.064	0.152	0.152	Pass	101.3
19	PFTrDA_2	72629-94-8	5.03	663.1 / 169.0	173323		5.000	0.152	0.152	Pass	100.0
20	PFTeDA	376-06-7	5.40	713.1 / 669.1	1015779		4.903	0.154	0.154	Pass	98.1
21	PFTeDA_2	376-06-7	5.40	713.1 / 169.0	156348		4.623	0.154	0.154	Pass	92.5
22	PFBS	375-73-5	1.93	299.1 / 80.1	743303		4.253	0.374	0.374	Pass	95.8

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.93	299.1 / 99.1	278216		4.565	0.374	0.374	Pass	97.1
24	PFPeS	2706-91-4	2.57	349.1 / 80.1	763378		4.671	0.314	0.314	Pass	99.4
25	PFPeS_2	2706-91-4	2.57	349.1 / 99.1	239858		4.675	0.314	0.314	Pass	99.5
26	PFHxS	355-46-4	3.10	399.1 / 80.1	666792	M5	4.468	0.306	0.306	Pass	98.0
27	PFHxS_2	355-46-4	3.10	399.1 / 99.1	204030	M5	4.721	0.306	0.306	Pass	103.5
28	PFHpS	375-92-8	3.57	449.1 / 80.1	684345		4.644	0.316	0.316	Pass	97.6
29	PFHpS_2	375-92-8	3.57	449.1 / 99.1	216244		4.796	0.316	0.316	Pass	100.8
30	PFOS	1763-23-1	4.01	499.1 / 80.1	789631	M5	4.406	0.244	0.244	Pass	95.0
31	PFOS_2	1763-23-1	4.01	499.1 / 99.1	192713		4.279	0.244	0.244	Pass	92.2
32	PFNS	68259-12-1	4.42	549.1 / 80.1	568907		4.662	0.294	0.294	Pass	97.1
33	PFNS_2	68259-12-1	4.42	549.1 / 99.1	167215		4.793	0.294	0.294	Pass	99.9
34	PFDS	335-77-3	4.82	599.1 / 80.1	567545		4.734	0.290	0.290	Pass	98.2
35	PFDS_2	335-77-3	4.82	599.1 / 99.1	164482		4.858	0.290	0.290	Pass	100.8
36	PFDoS	79780-39-5	5.56	699.2 / 80.1	520719		4.767	0.256	0.256	Pass	98.5
37	PFDoS_2	79780-39-5	5.56	699.2 / 99.1	133378		4.737	0.256	0.256	Pass	97.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.72	327.1 / 307.1	667760		19.061	0.650	0.650	Pass	101.9
39	4:2FTS_2	757124-72-4	1.72	327.1 / 81.1	433871		19.188	0.650	0.650	Pass	102.6
40	6:2FTS	27619-97-2	2.81	427.2 / 407.2	613808		18.486	0.620	0.620	Pass	97.3
41	6:2FTS_2	27619-97-2	2.81	427.2 / 81.1	380645		17.886	0.620	0.620	Pass	94.1
42	8:2FTS	39108-34-4	3.67	527.2 / 507.2	505170		19.170	0.676	0.676	Pass	99.9
43	8:2FTS_2	39108-34-4	3.67	527.2 / 81.1	341482		18.825	0.676	0.676	Pass	98.0
44	PFOSA	754-91-6	5.24	498.1 / 78.1	956494	M5	4.928	0.026	0.026	Pass	98.6
45	PFOSA_2	754-91-6	5.24	498.1 / 478.0	24841	M5	4.954	0.026	0.026	Pass	99.1
46	NMeFOSA	31506-32-8	5.98	512.2 / 219.0	250084	M5	4.963	1.377	1.377	Pass	99.3
47	NMeFOSA_2	31506-32-8	5.93	512.2 / 169.0	344349		4.918	1.377	1.377	Pass	98.4
48	NEtFOSA	4151-50-2	6.27	526.2 / 219.0	235607		4.701	1.292	1.292	Pass	94.0
49	NEtFOSA_2	4151-50-2	6.23	526.2 / 169.0	304375		4.867	1.292	1.292	Pass	97.4
50	NMeFOSAA	2355-31-9	3.99	570.2 / 419.1	145585		4.623	0.697	0.697	Pass	92.5
51	NMeFOSAA_2	2355-31-9	3.99	570.2 / 483.0	101452	M5	4.484	0.697	0.697	Pass	89.7
52	NEtFOSAA	2991-50-6	4.20	584.2 / 419.1	132430	M5	5.207	0.557	0.557	Pass	104.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.20	584.2 / 526.2	73749	M5	5.261	0.557	0.557	Pass	105.2
54	NMeFOSE	24448-09-7	5.85	616.1 / 58.9	3643445	M5	49.553	N/A	N/A	N/A	99.1
55	NEtFOSE	1691-99-2	6.14	630.0 / 58.9	5175067	M5	50.657	N/A	N/A	N/A	101.3
56	HFPO-DA	13252-13-6	2.14	285.0 / 169.0	3399227		20.693	0.501	0.501	Pass	103.5
57	HFPO-DA_2	13252-13-6	2.14	285.0 / 184.9	1703068		19.664	0.501	0.501	Pass	98.3
58	ADONA	919005-14-4	2.68	376.9 / 251.0	5884811		17.937	0.691	0.691	Pass	94.9
59	ADONA_2	919005-14-4	2.69	376.9 / 84.8	4064983		18.701	0.691	0.691	Pass	99.0
60	9Cl-PF3ONS	756426-58-1	4.29	530.8 / 351.1	6032741		19.751	0.332	0.332	Pass	105.6
61	9Cl-PF3ONS_2	756426-58-1	4.29	532.8 / 353.0	2002545		19.725	0.332	0.332	Pass	105.5
62	11Cl-PF3OUdS	763051-92-9	5.08	630.9 / 451.0	5149429		19.937	0.322	0.322	Pass	105.5
63	11Cl-PF3OUdS_2	763051-92-9	5.08	632.9 / 452.9	1656131		19.976	0.322	0.322	Pass	105.7
64	3:3FTCA	356-02-5	1.57	241.1 / 177.1	303513		25.115	1.010	1.010	Pass	100.5
65	3:3FTCA_2	356-02-5	1.57	241.1 / 117.0	306657		23.370	1.010	1.010	Pass	93.5
66	5:3FTCA	914637-49-3	3.04	341.1 / 237.1	6094534		127.497	1.017	1.017	Pass	102.0
67	5:3FTCA_2	914637-49-3	3.04	341.1 / 217.0	6196859		128.663	1.017	1.017	Pass	102.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.07	441.1 / 316.9	5129873		130.975	1.343	1.343	Pass	104.8
69	7:3FTCA_2	812-70-4	4.07	441.1 / 337.1	6887248		133.024	1.343	1.343	Pass	106.4
70	PFEESA	113507-82-7	2.23	315.1 / 135.0	4413745		8.885	0.081	0.081	Pass	99.6
71	PFEESA_2	113507-82-7	2.23	315.1 / 82.9	355581		8.703	0.081	0.081	Pass	97.6
72	PFMPA	377-73-1	0.76	229.0 / 85.0	1710204		9.664	N/A	N/A	N/A	96.6
73	PFMBA	863090-89-5	1.45	279.0 / 85.0	1781362		9.944	N/A	N/A	N/A	99.4
74	NFDHA	151772-58-6	1.85	295.0 / 201.0	1325671		10.195	0.681	0.681	Pass	102.0
75	NFDHA_2	151772-58-6	1.85	295.0 / 84.9	902339		9.805	0.681	0.681	Pass	98.1
76	TDCA	516-50-7	2.67	499.1 / 124.1	1993257		9.851	5.680	5.680	Pass	98.5
77	TDCA_2	516-50-7	2.67	499.1 / 79.9	11320857		9.931	5.680	5.680	Pass	99.3
78	13C2D4-4:2FTS	Surr	1.71	333.2 / 312.1	151148		4.895	N/A	N/A	N/A	97.9
79	13C2-PFOA	Surr	2.99	415.0 / 370.0	368927		2.517	N/A	N/A	N/A	100.7

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.60	217.0 / 172.0	1893182		9.925	NA	NA	NA	99.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.18	268.0 / 223.0	815409		4.751	NA	NA	NA	95.0
	13C5-PFHxA	EIS	1.92	318.0 / 273.0	373194		2.313	NA	NA	NA	92.5
	13C4-PFHpA	EIS	2.50	367.0 / 322.0	383347		2.463	NA	NA	NA	98.5
	13C8-PFOA	EIS	2.99	420.8 / 376.0	619864		2.352	NA	NA	NA	94.1
	13C9-PFNA	EIS	3.43	472.0 / 427.0	267518		1.165	NA	NA	NA	93.2
	13C6-PFDA	EIS	3.85	519.0 / 474.0	303509		1.169	NA	NA	NA	93.6
	13C7-PFUnA	EIS	4.26	570.0 / 525.0	344649		1.203	NA	NA	NA	96.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.65	615.1 / 570.0	339869		1.180	NA	NA	NA	94.4
	13C2-PFTeDA	EIS	5.40	715.1 / 670.1	227851		1.219	NA	NA	NA	97.6
	13C3-PFBS	EIS	1.92	302.1 / 80.1	383340		2.189	NA	NA	NA	94.0
	13C3-PFHxS	EIS	3.09	402.1 / 80.1	341511		2.194	NA	NA	NA	92.6
	13C8-PFOS	EIS	4.00	507.1 / 80.1	375974		2.474	NA	NA	NA	103.1
	13C2-4:2FTS	EIS	1.72	329.1 / 81.1	106752		4.134	NA	NA	NA	88.1
	13C2-6:2FTS	EIS	2.80	429.2 / 81.1	98255		4.419	NA	NA	NA	92.8
	13C2-8:2FTS	EIS	3.67	529.2 / 81.1	95058		4.223	NA	NA	NA	88.0

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.24	506.1 / 78.1	605958		2.512	NA	NA	NA	100.5
d3-NMeFOSA	EIS	5.97	515.2 / 219.0	112380		2.580	NA	NA	NA	103.2
d5-NEtFOSA	EIS	6.26	531.2 / 219.0	102844		2.596	NA	NA	NA	103.9
d3-NMeFOSAA	EIS	3.98	573.2 / 419.1	173229		5.812	NA	NA	NA	116.2
d5-NEtFOSAA	EIS	4.19	589.3 / 419.1	117302		4.925	NA	NA	NA	98.5
d7-NMeFOSE	EIS	5.82	623.2 / 58.9	811391		25.897	NA	NA	NA	103.6
d9-NEtFOSE	EIS	6.12	639.2 / 58.9	1081459		25.731	NA	NA	NA	102.9

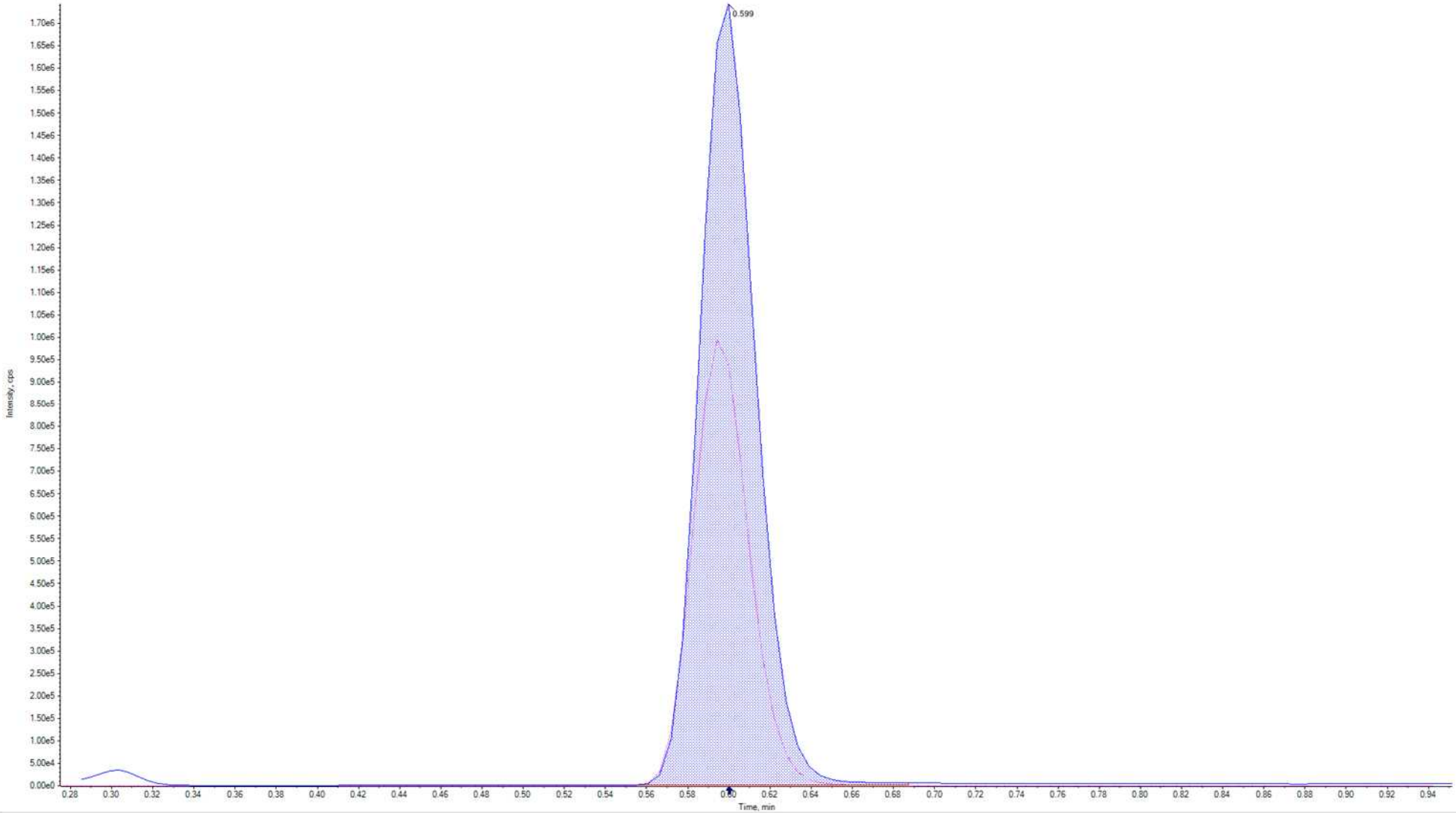
	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.13	287.0 / 169.0	1620896		9.497	NA	NA	NA	95.0
	13C3-PFBA	NIS	0.59	216.0 / 172.0	844058		5.824	NA	NA	NA	116.5
	13C2-PFHxA	NIS	1.92	315.0 / 270.0	475130		2.932	NA	NA	NA	117.3
	13C4-PFOA	NIS	2.99	417.0 / 372.0	400543		2.786	NA	NA	NA	111.4
	13C5-PFNA	NIS	3.43	468.0 / 423.0	287712		1.396	NA	NA	NA	111.7
	13C2-PFDA	NIS	3.85	515.1 / 470.1	302924		1.425	NA	NA	NA	114.0
	18O2-PFHxS	NIS	3.09	403.1 / 84.1	327303		2.780	NA	NA	NA	117.3
	13C4-PFOS	NIS	4.00	503.1 / 80.1	305674		2.543	NA	NA	NA	105.9

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

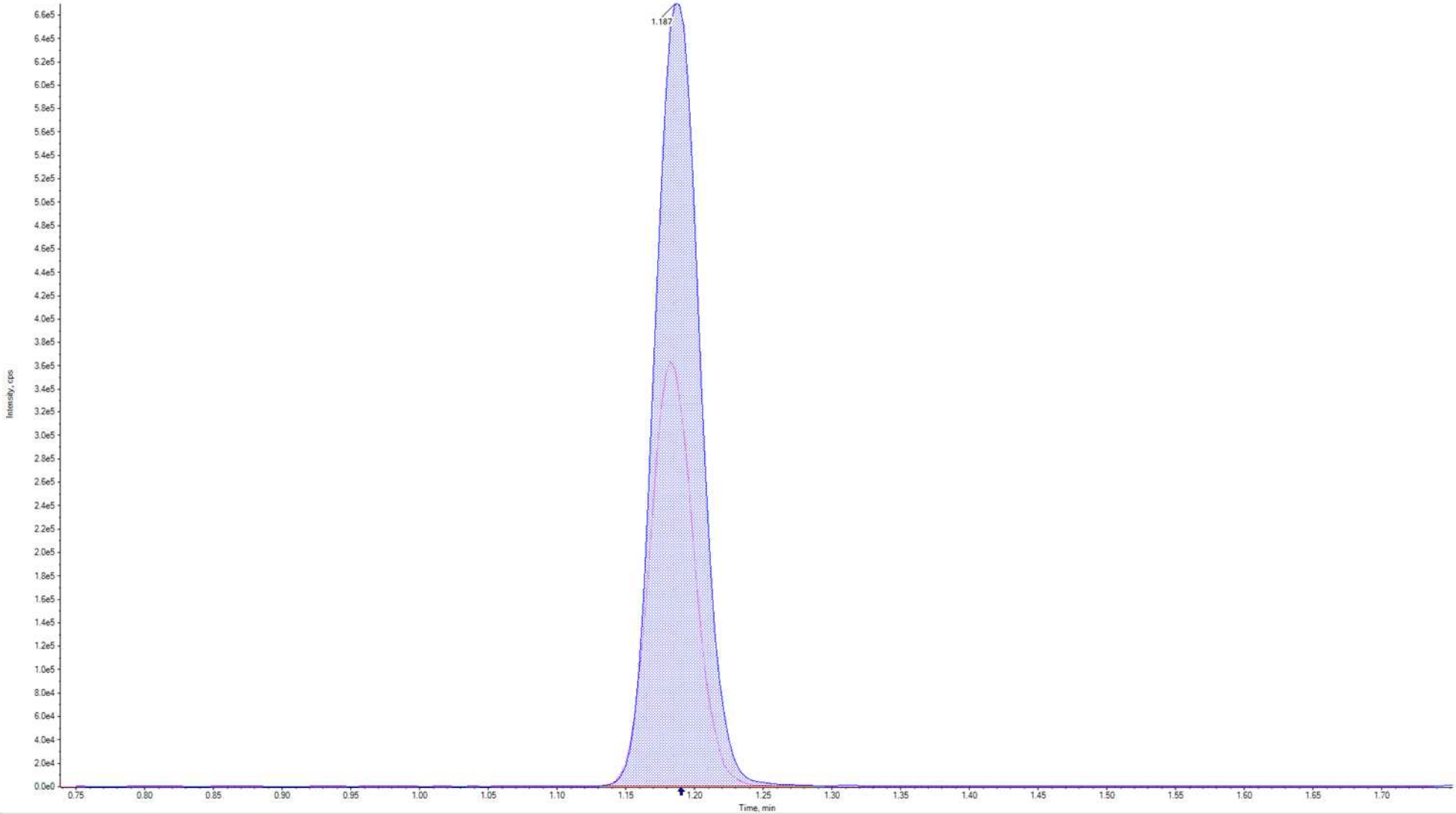
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Alpha Analytical LLC
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PFBA
Sample: IA1633STD-5 S/N:2556.3 Points Across peak:29



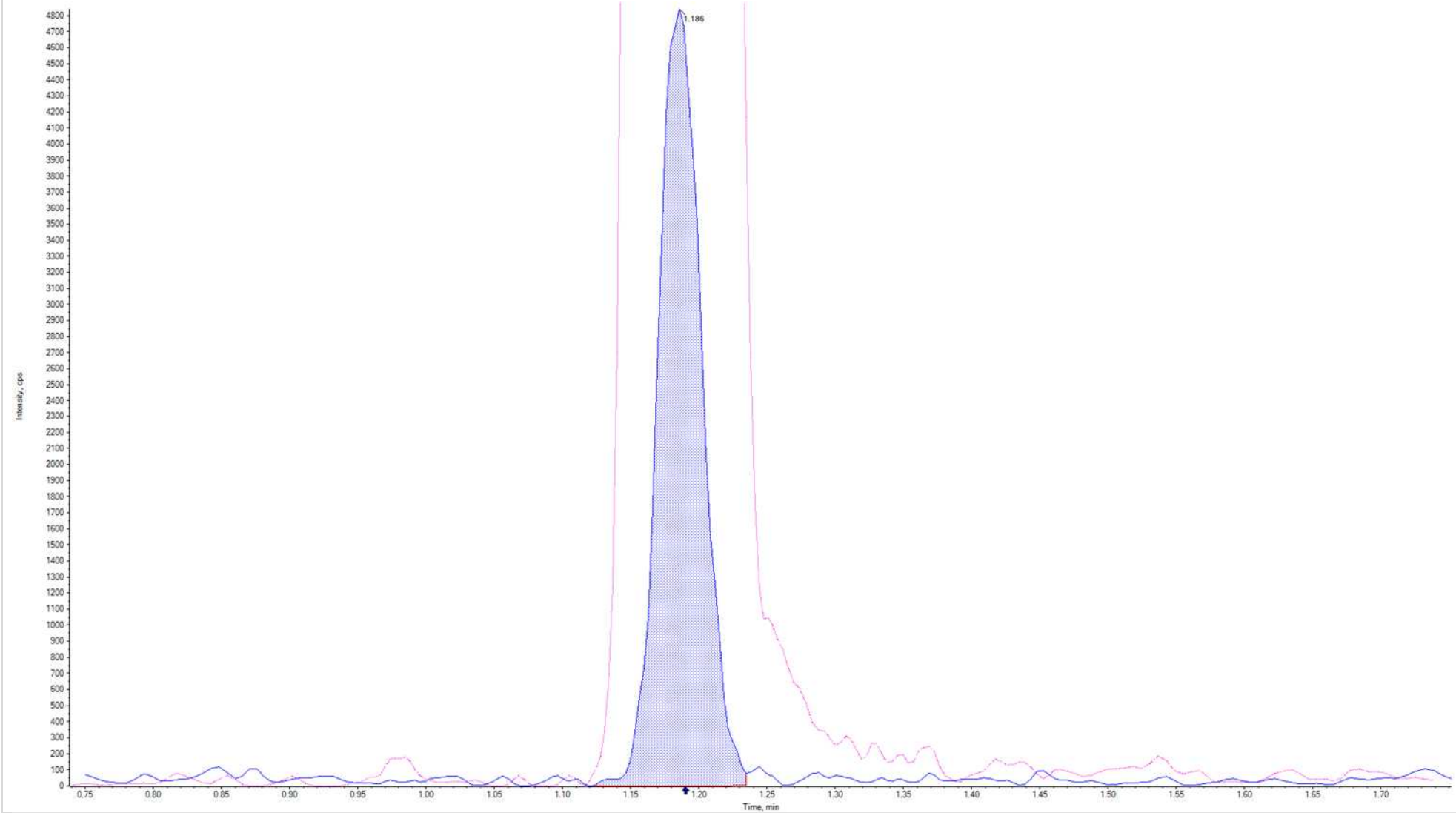
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFPeA
Sample: IA1633STD-5 S/N:5413.7 Points Across peak:50



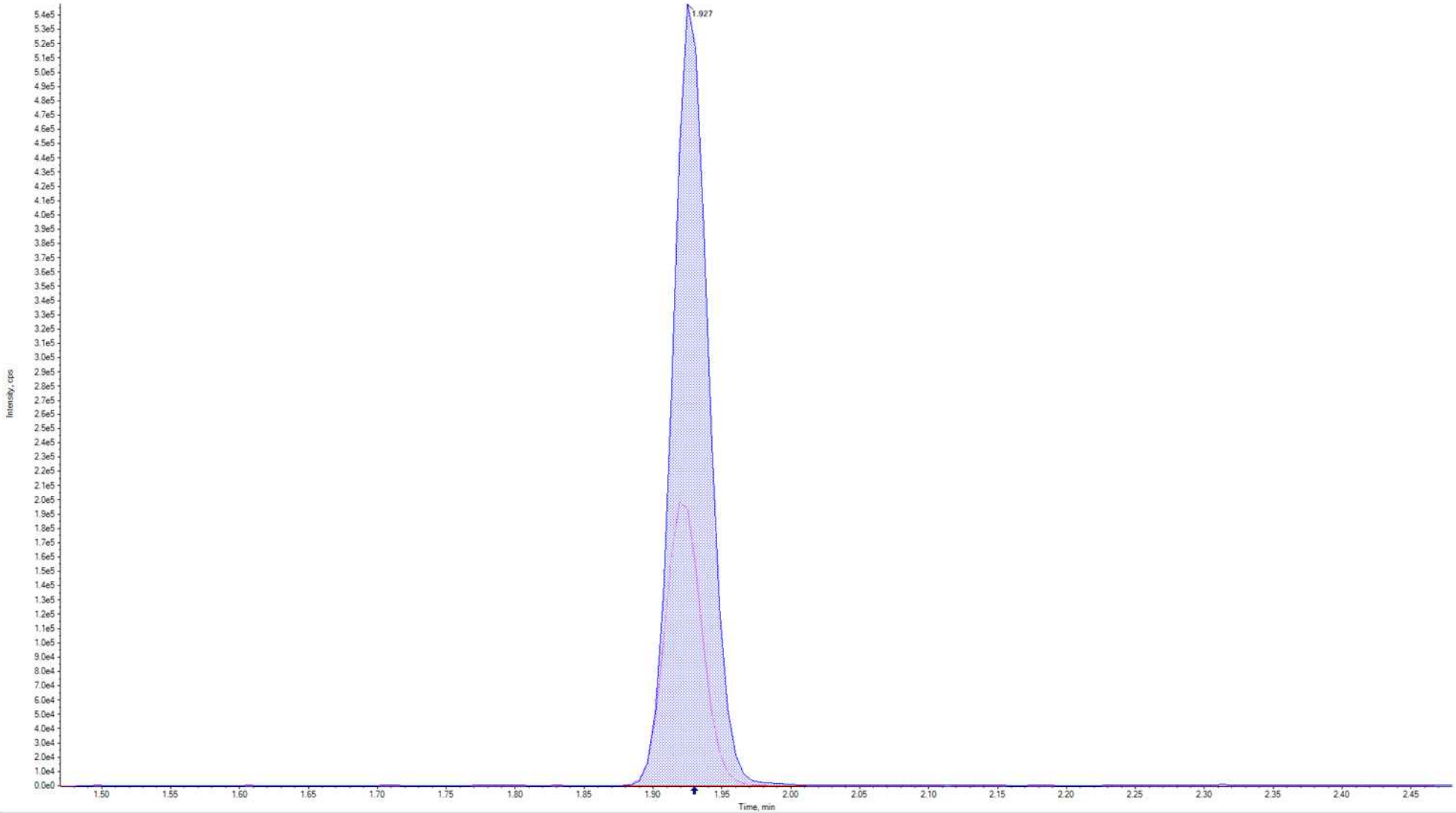
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFPeA_2
Sample: IA1633STD-5 S/N:291.1 Points Across peak:37



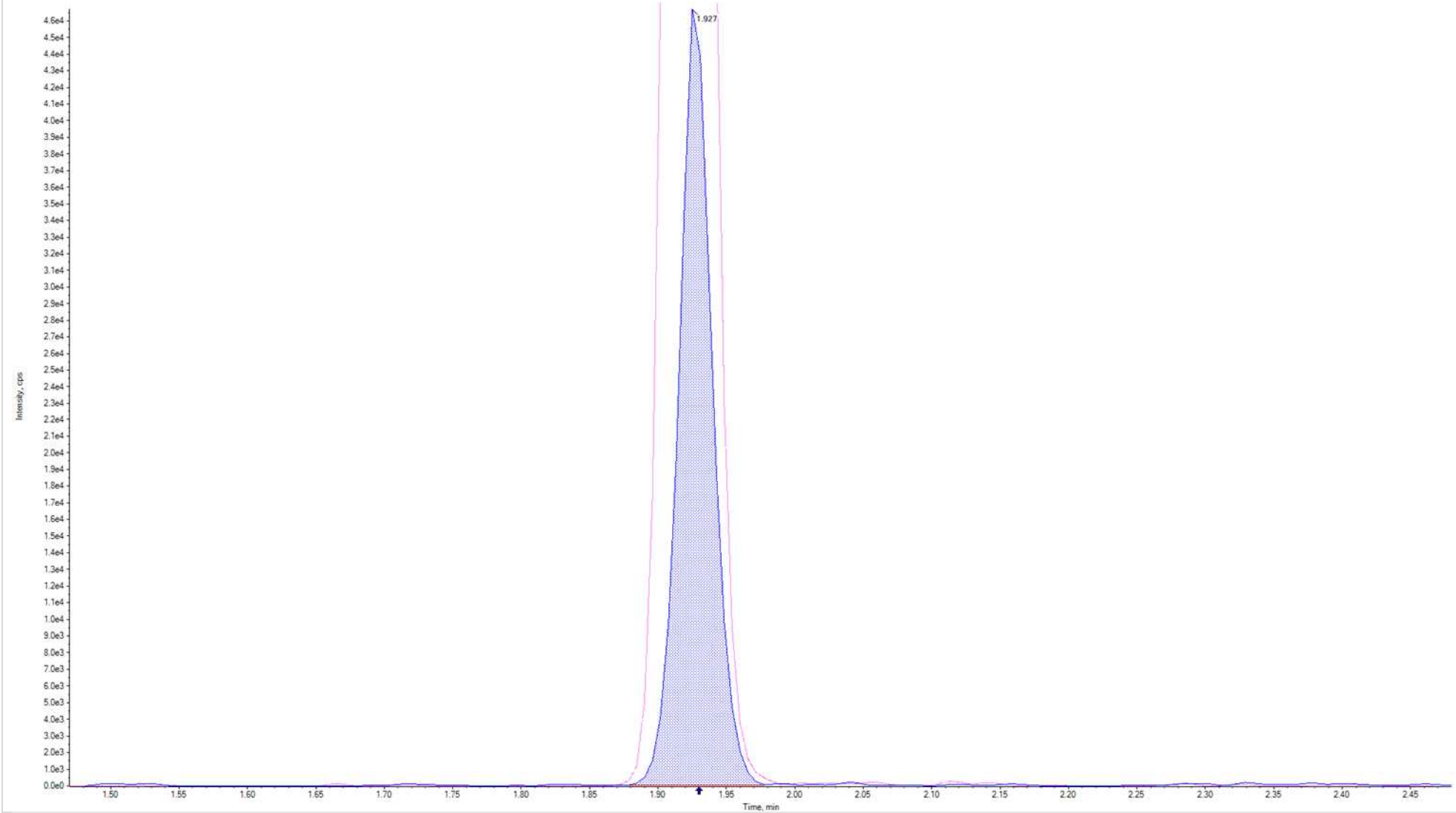
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Alpha Analytical LLC
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PFHxA
Sample: IA1633STD-5 S/N:8644.1 Points Across peak:27



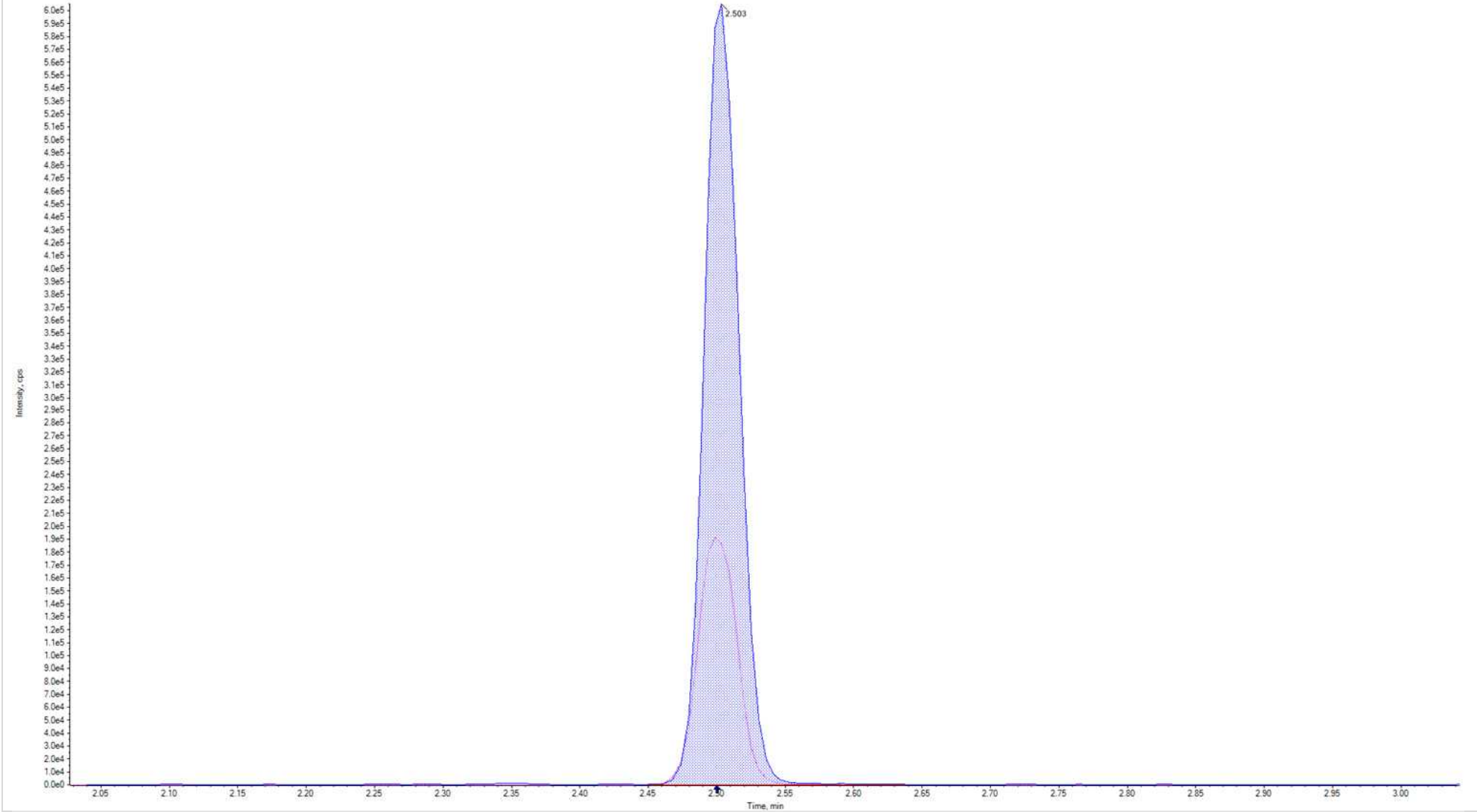
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
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PFHxA_2
Sample: IA1633STD-5 S/N:1047.9 Points Across peak:20



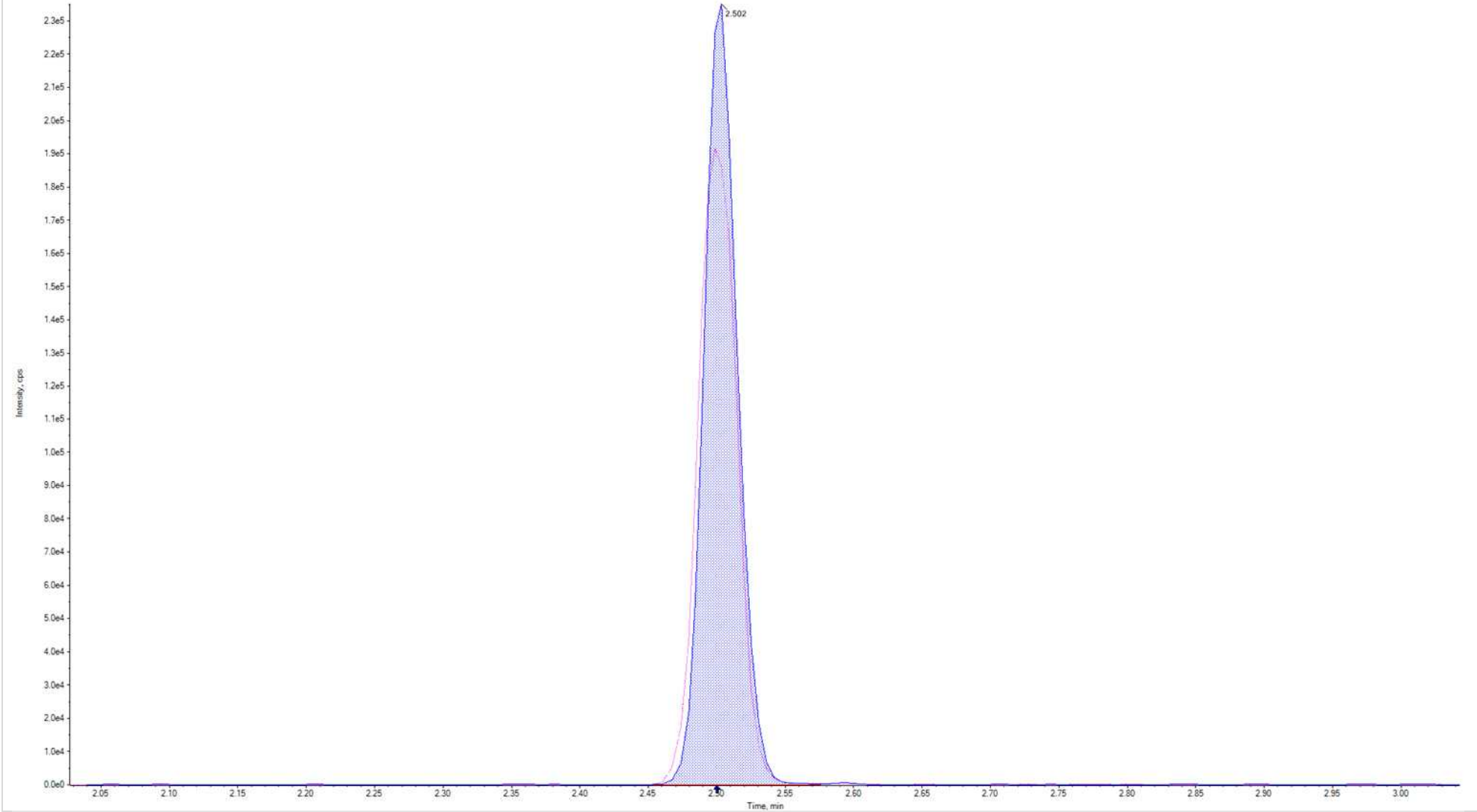
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFHpA
Sample: IA1633STD-5 S/N:5442.8 Points Across peak:36



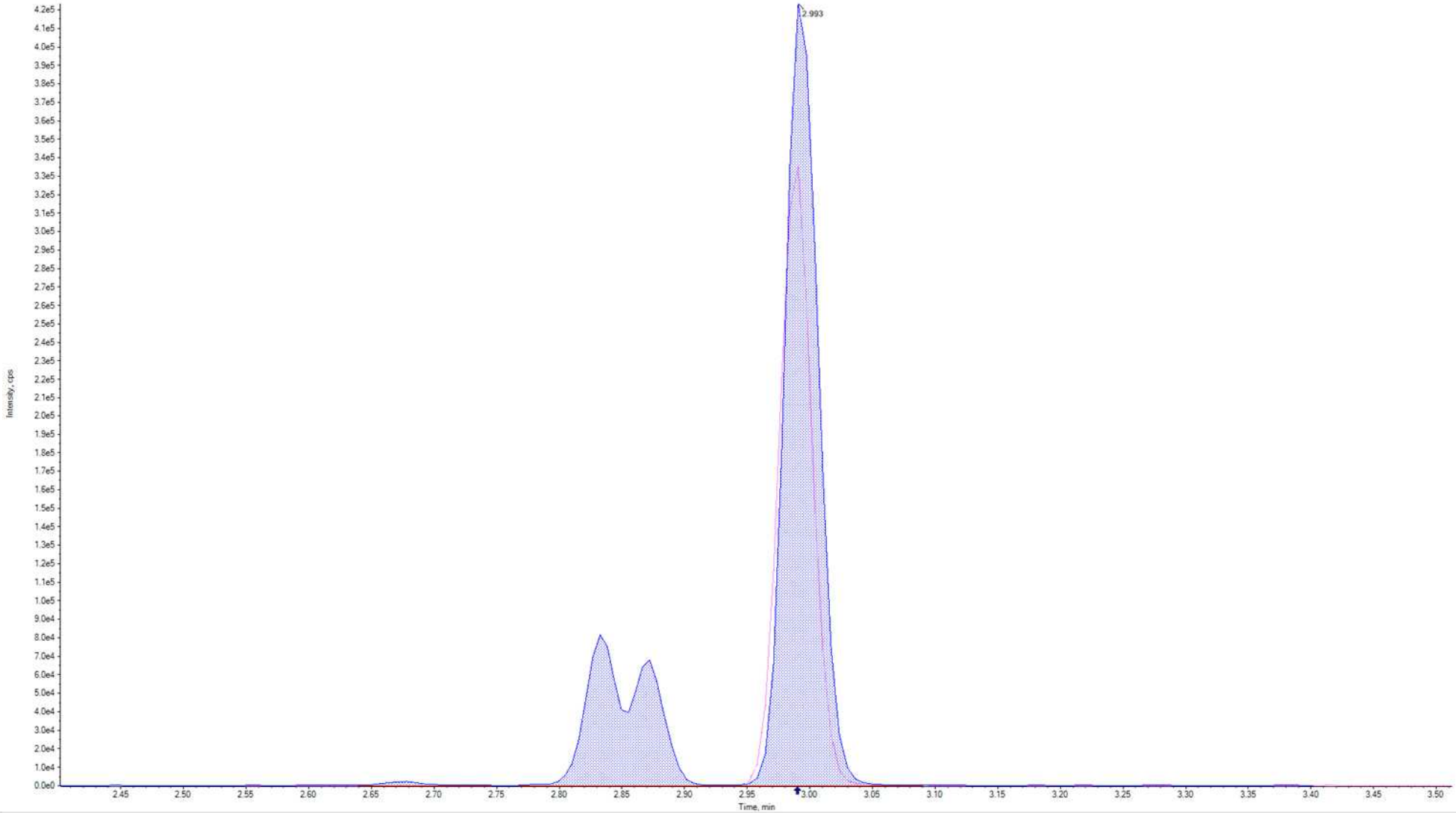
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
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PFHpA_2
Sample: IA1633STD-5 S/N:4715.0 Points Across peak:27



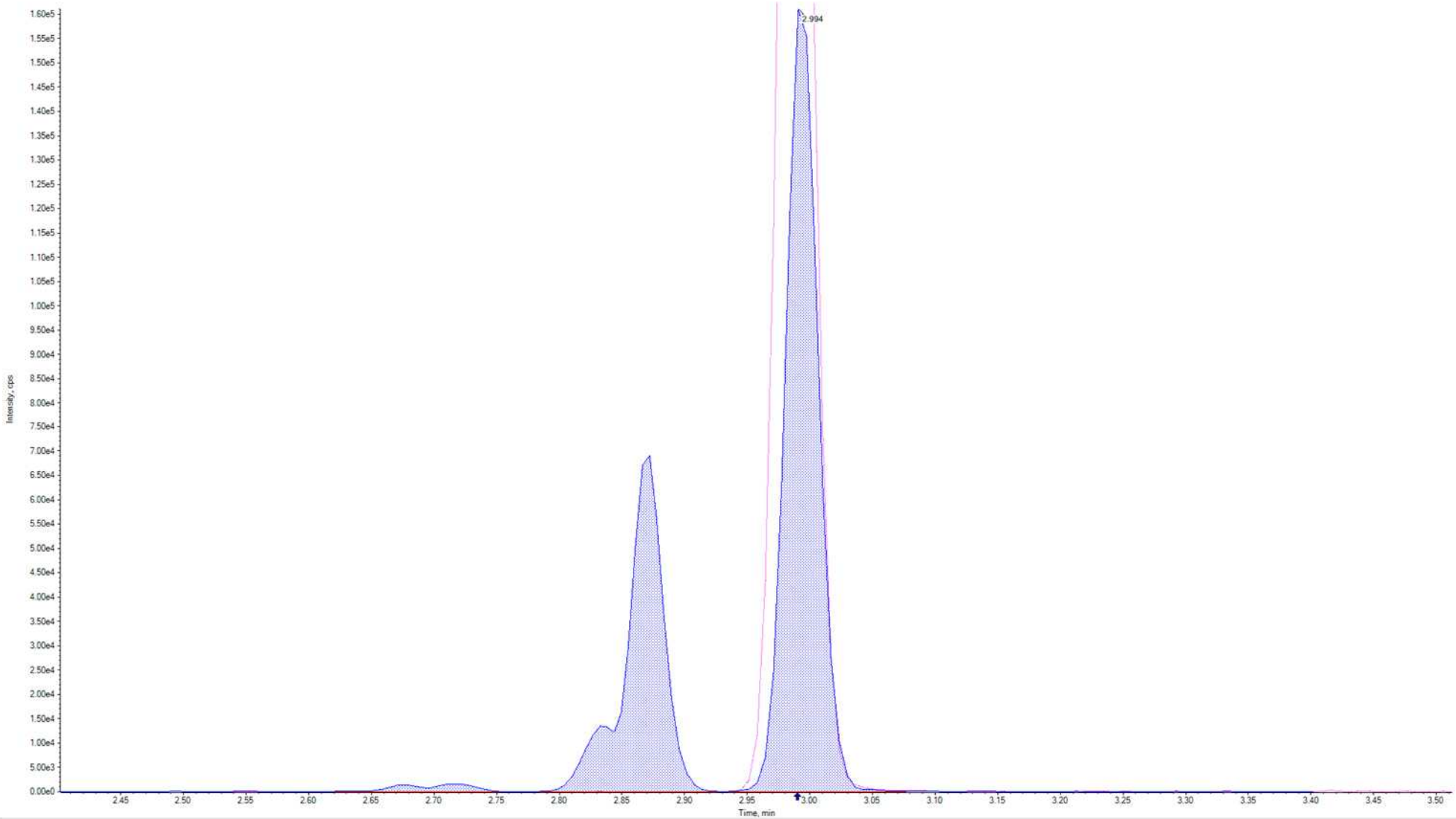
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
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PFOA
Sample: IA1633STD-5 S/N:807.4 Points Across peak:75



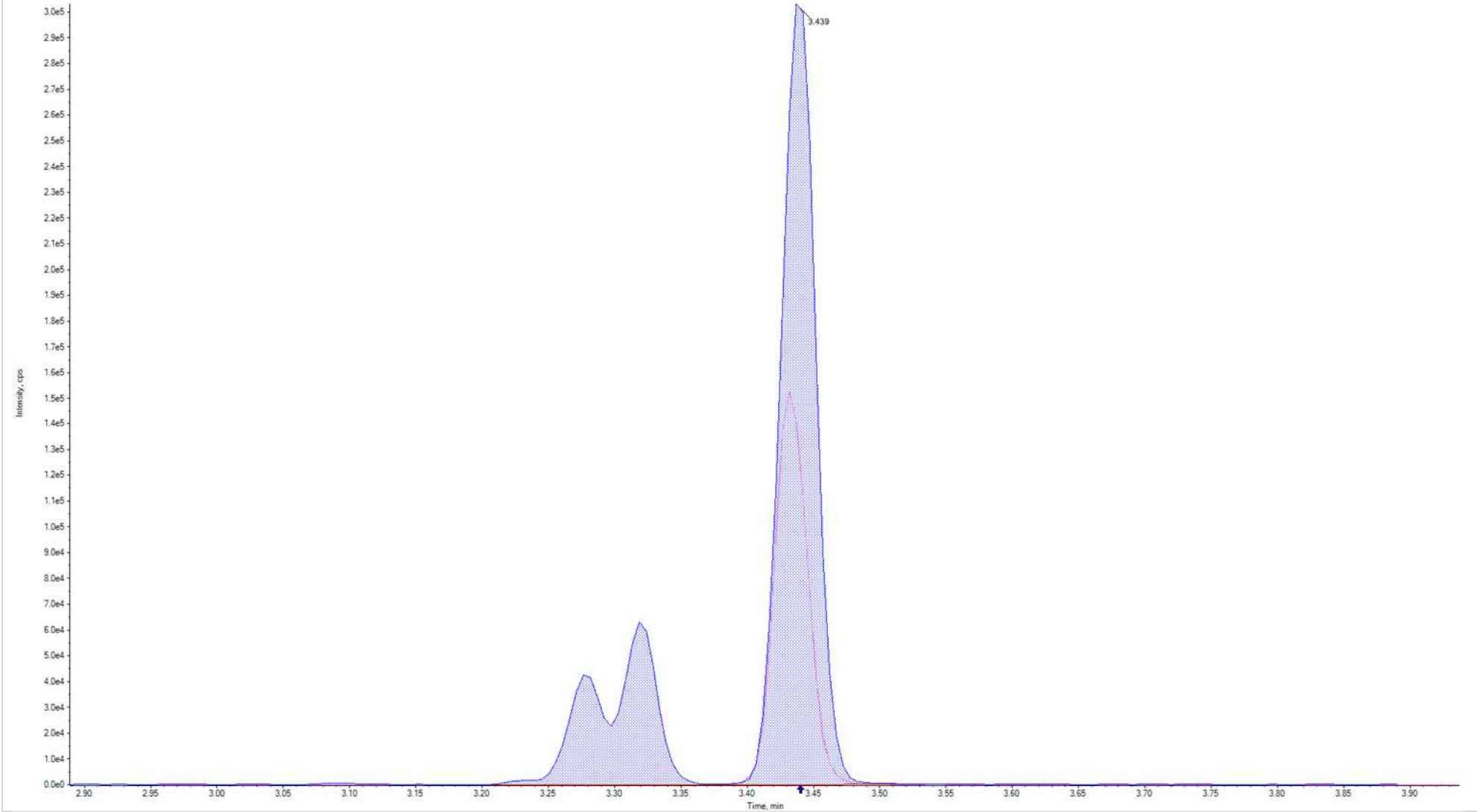
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFOA_2
Sample: IA1633STD-5 S/N:576.6 Points Across peak:78



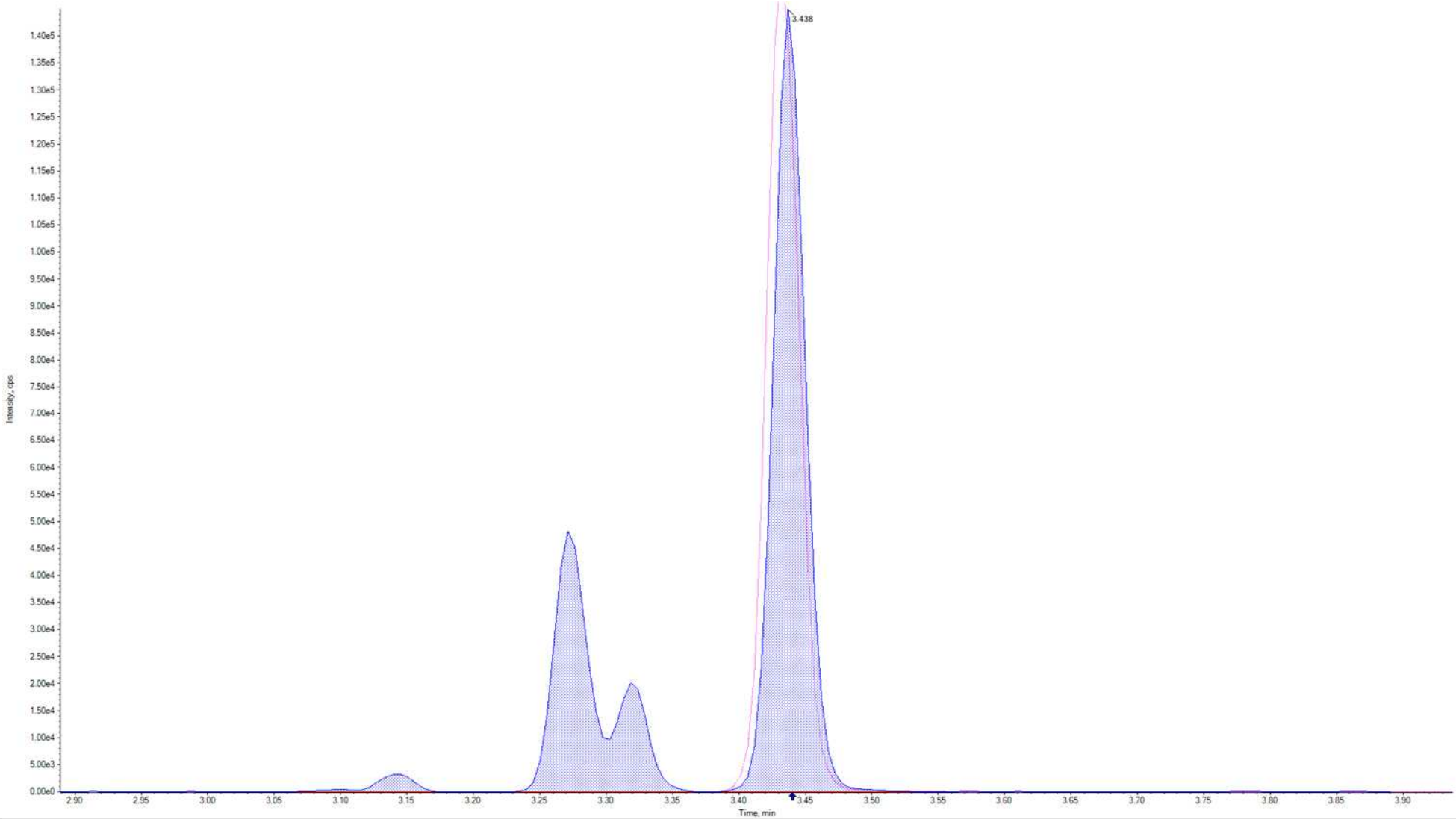
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Alpha Analytical LLC
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PFNA
Sample: IA1633STD-5 S/N:781.9 Points Across peak:68



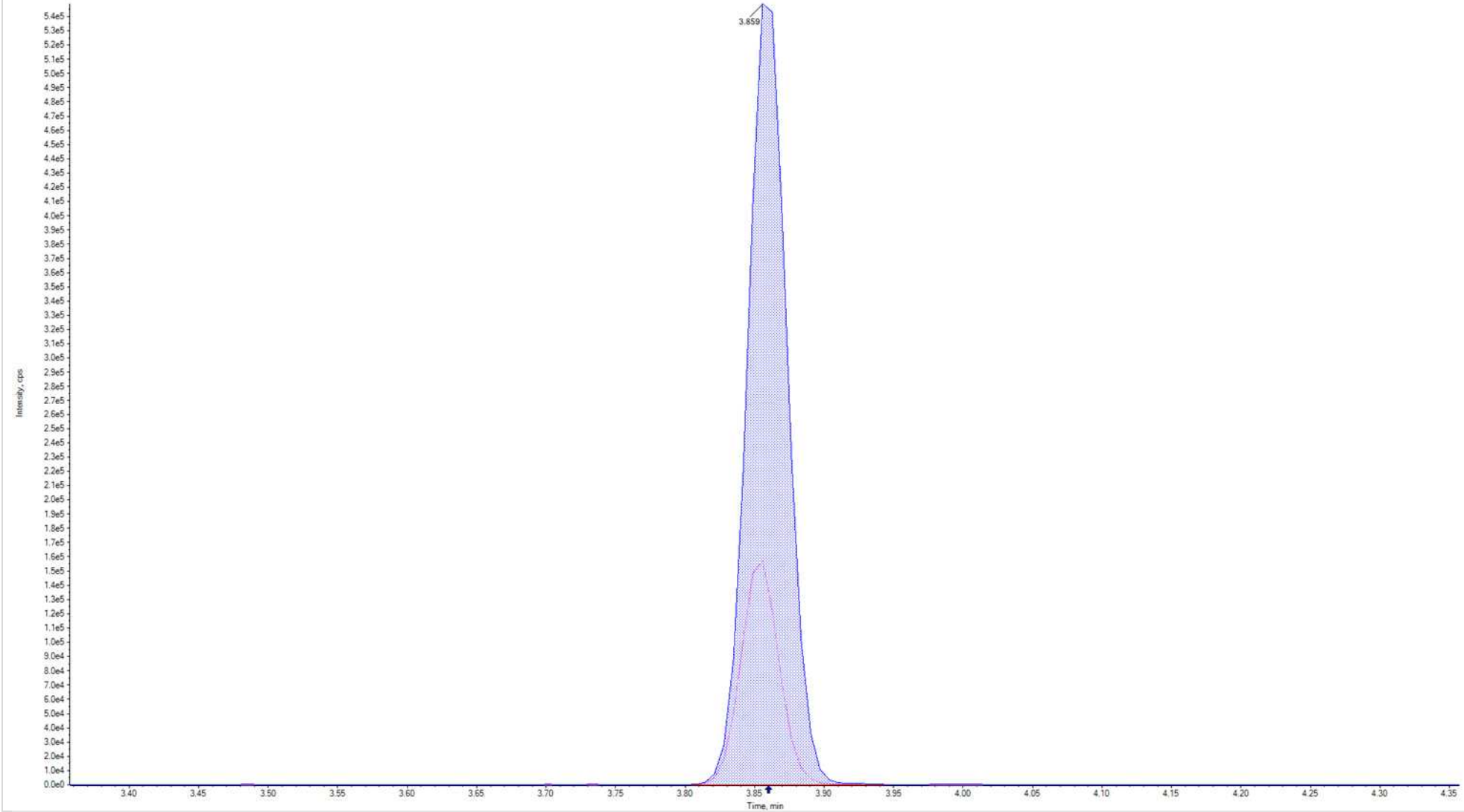
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNA_2
Sample: IA1633STD-5 S/N:497.0 Points Across peak:90



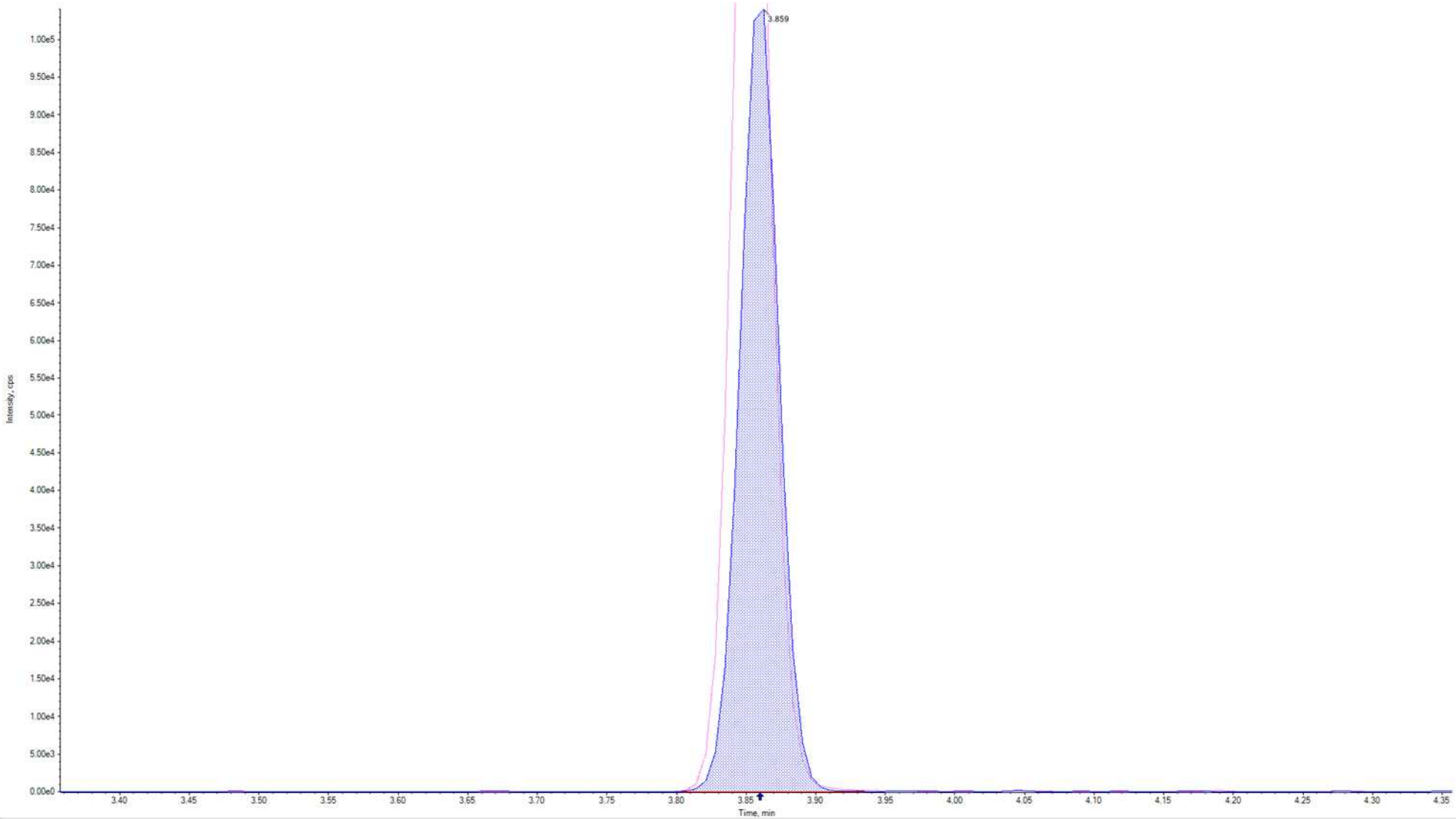
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFDA
Sample: IA1633STD-5 S/N:11005.4 Points Across peak:28



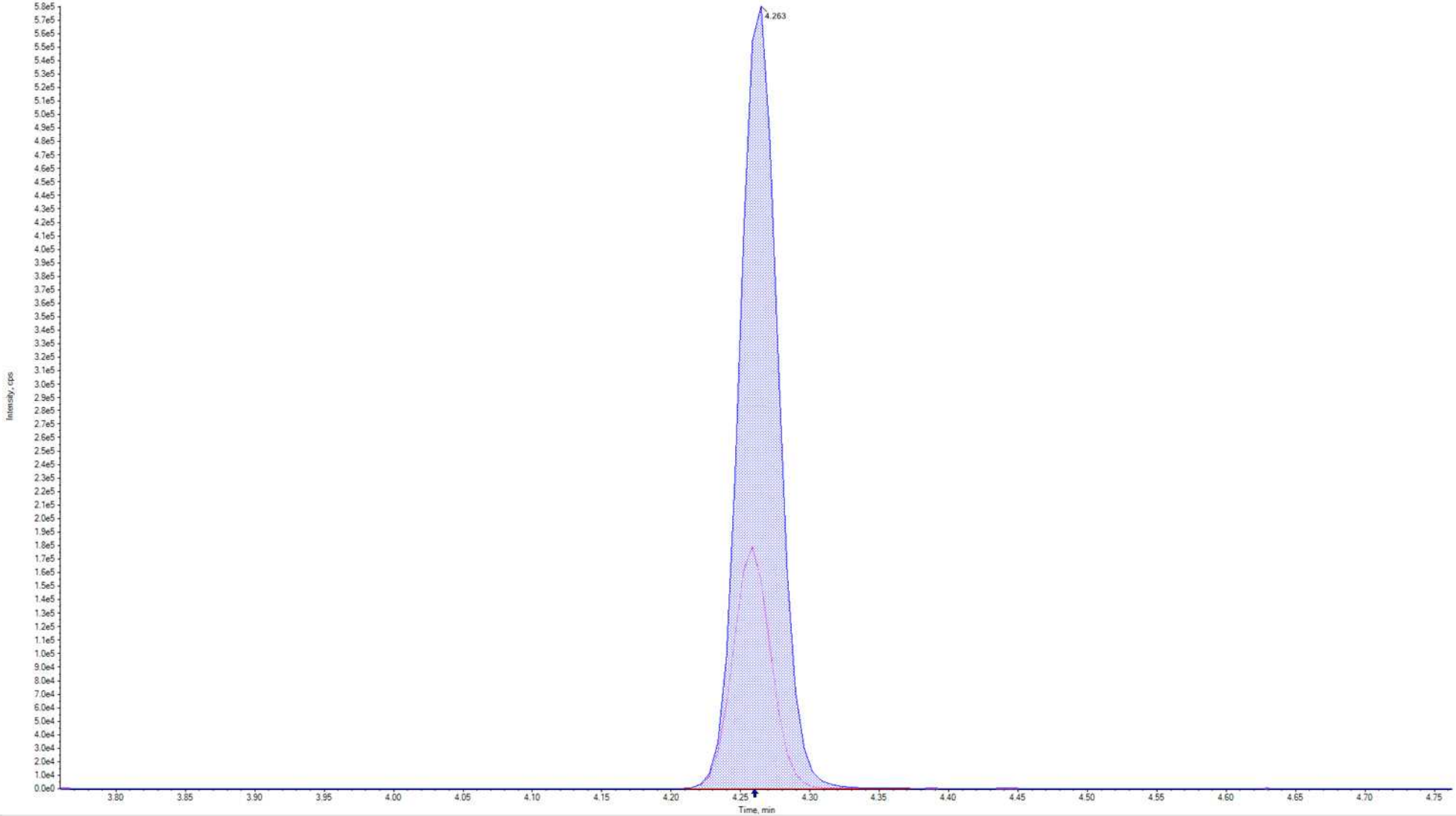
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFDA_2
Sample: IA1633STD-5 S/N:2086.3 Points Across peak:23



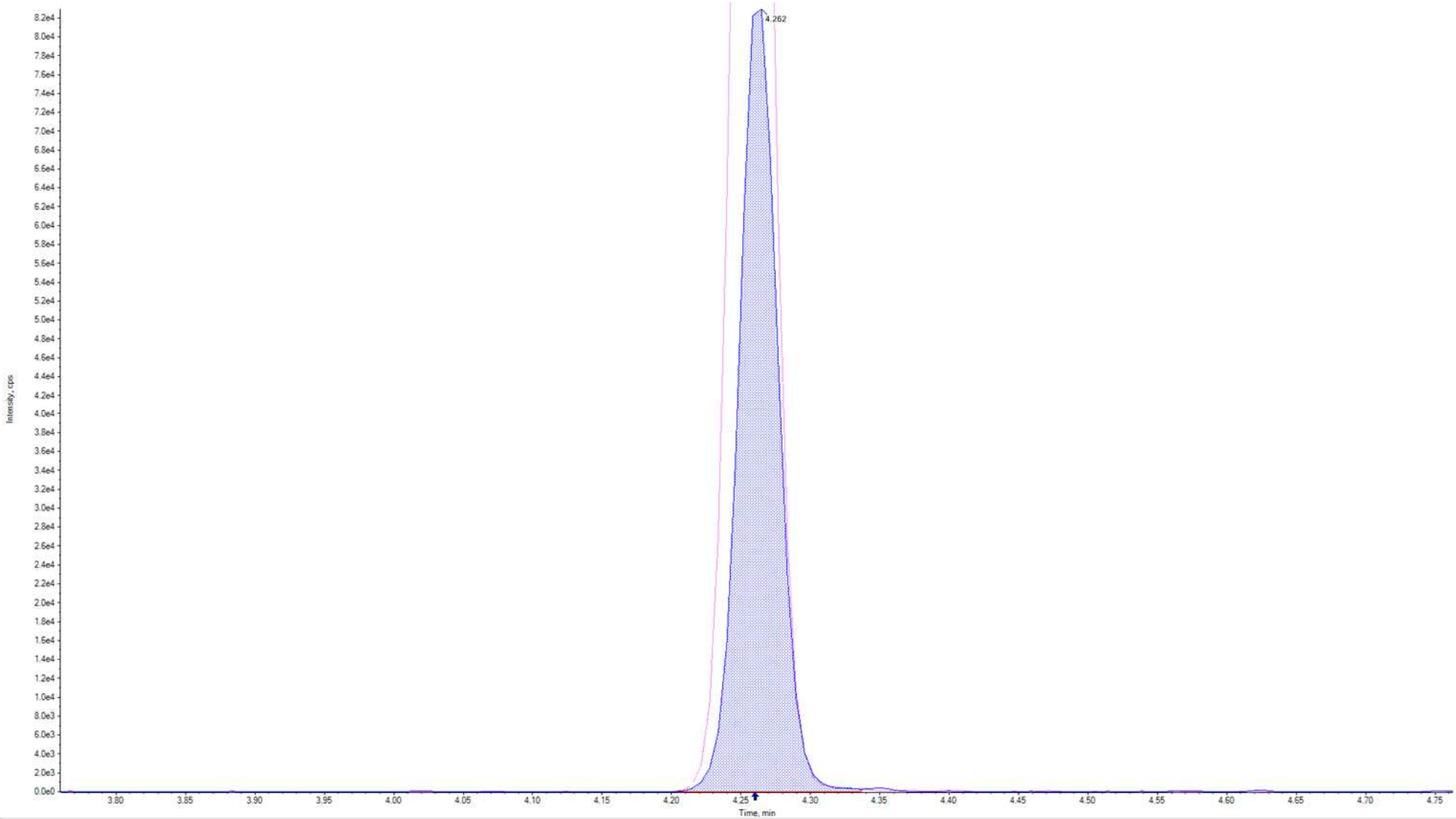
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFUnA
Sample: IA1633STD-5 S/N:13090.2 Points Across peak:31



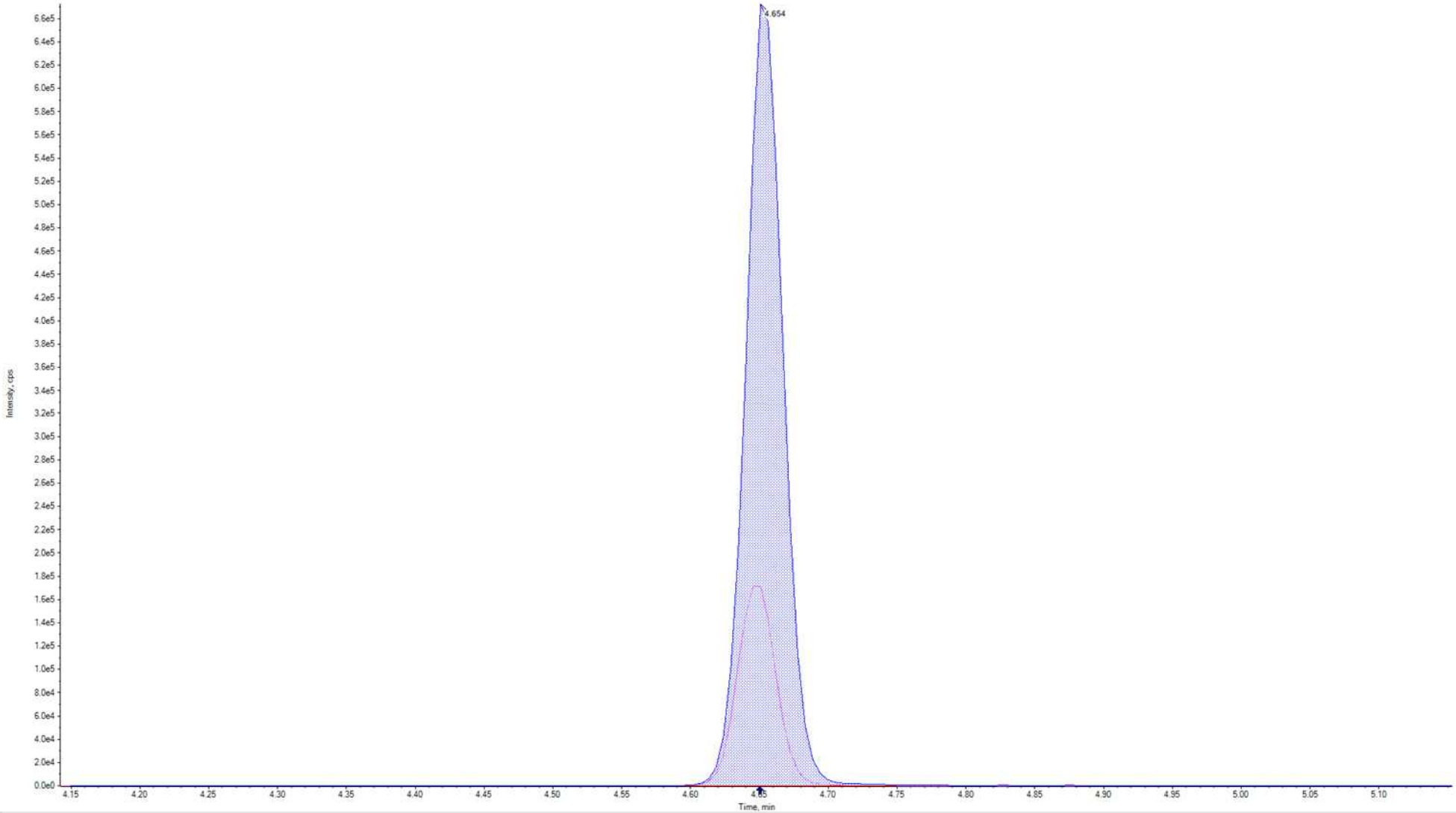
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFUnA_2
Sample: IA1633STD-5 S/N:1870.8 Points Across peak:26



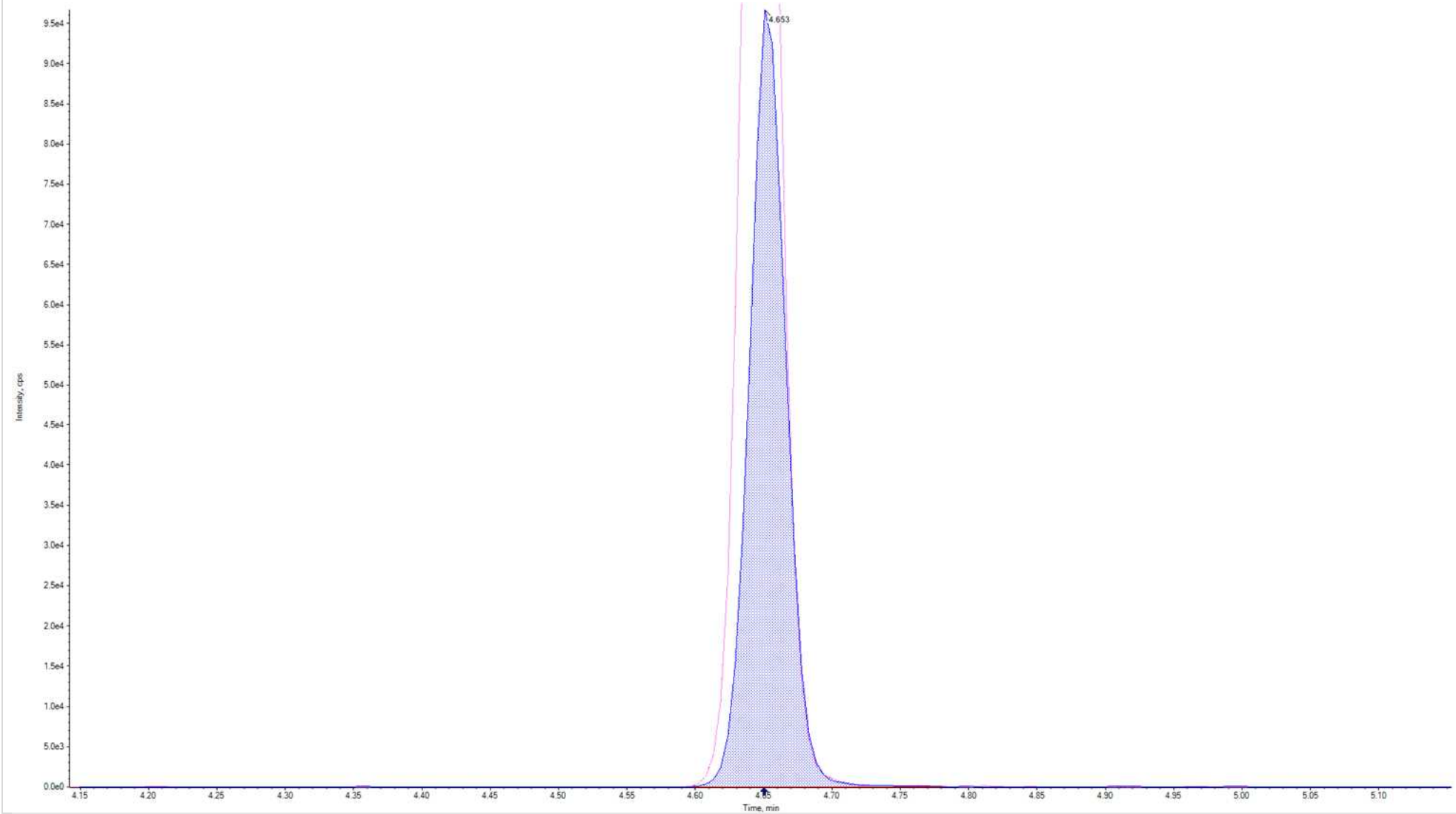
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PFDoA
Sample: IA1633STD-5 S/N:14388.4 Points Across peak:31



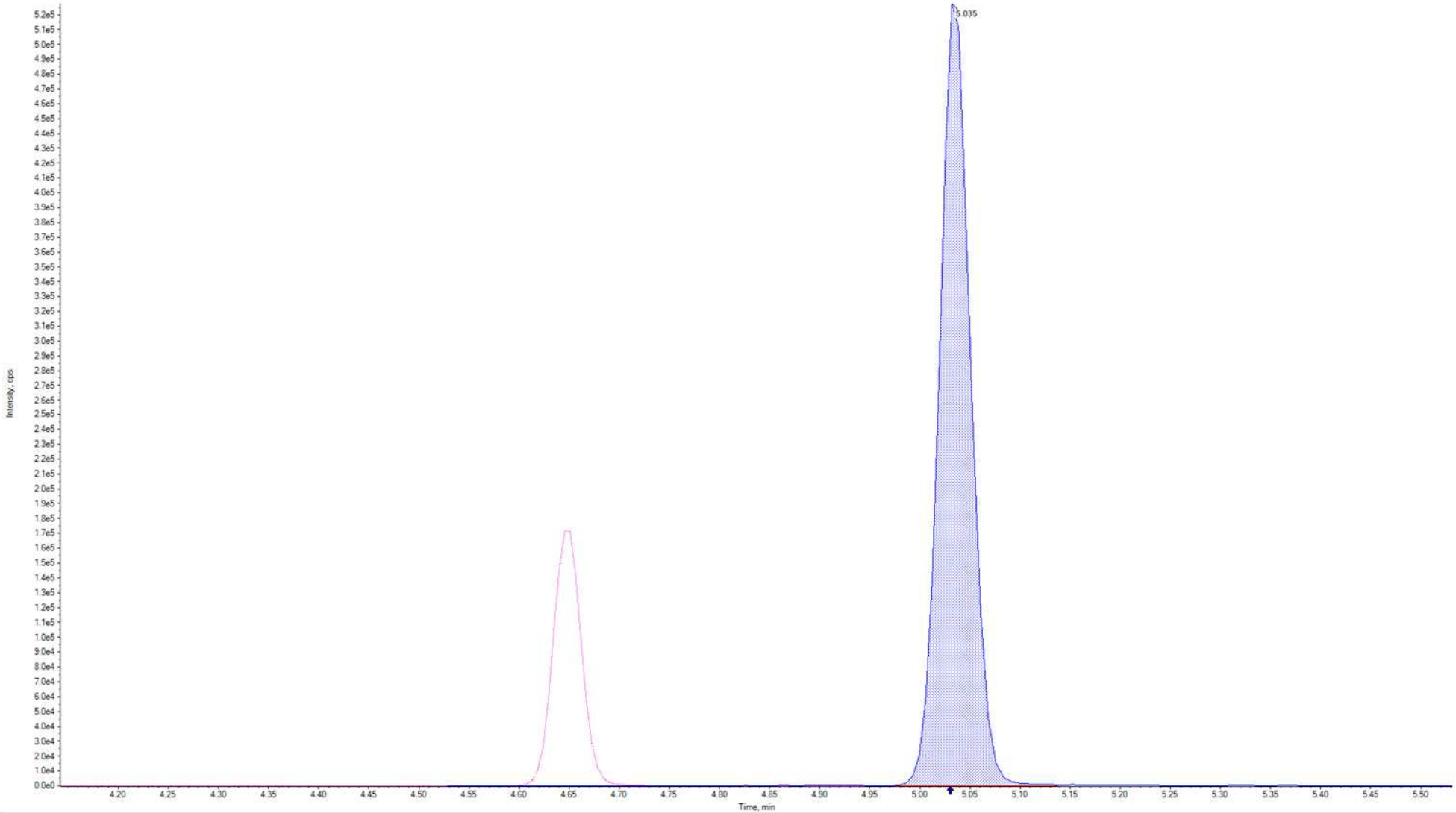
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDoA_2
Sample: IA1633STD-5 S/N:2665.8 Points Across peak:38



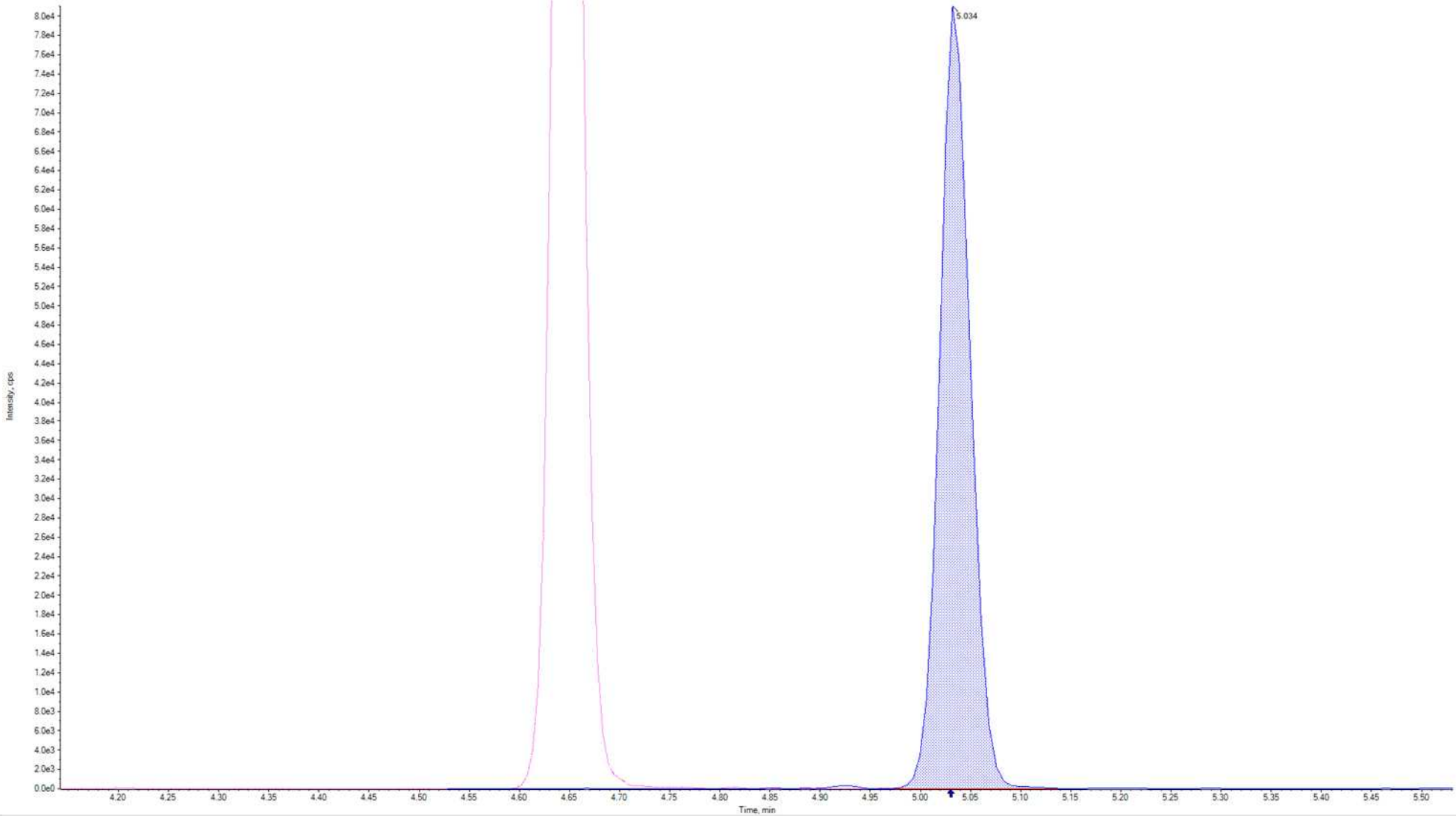
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFTrDA
Sample: IA1633STD-5 S/N:21144.2 Points Across peak:26



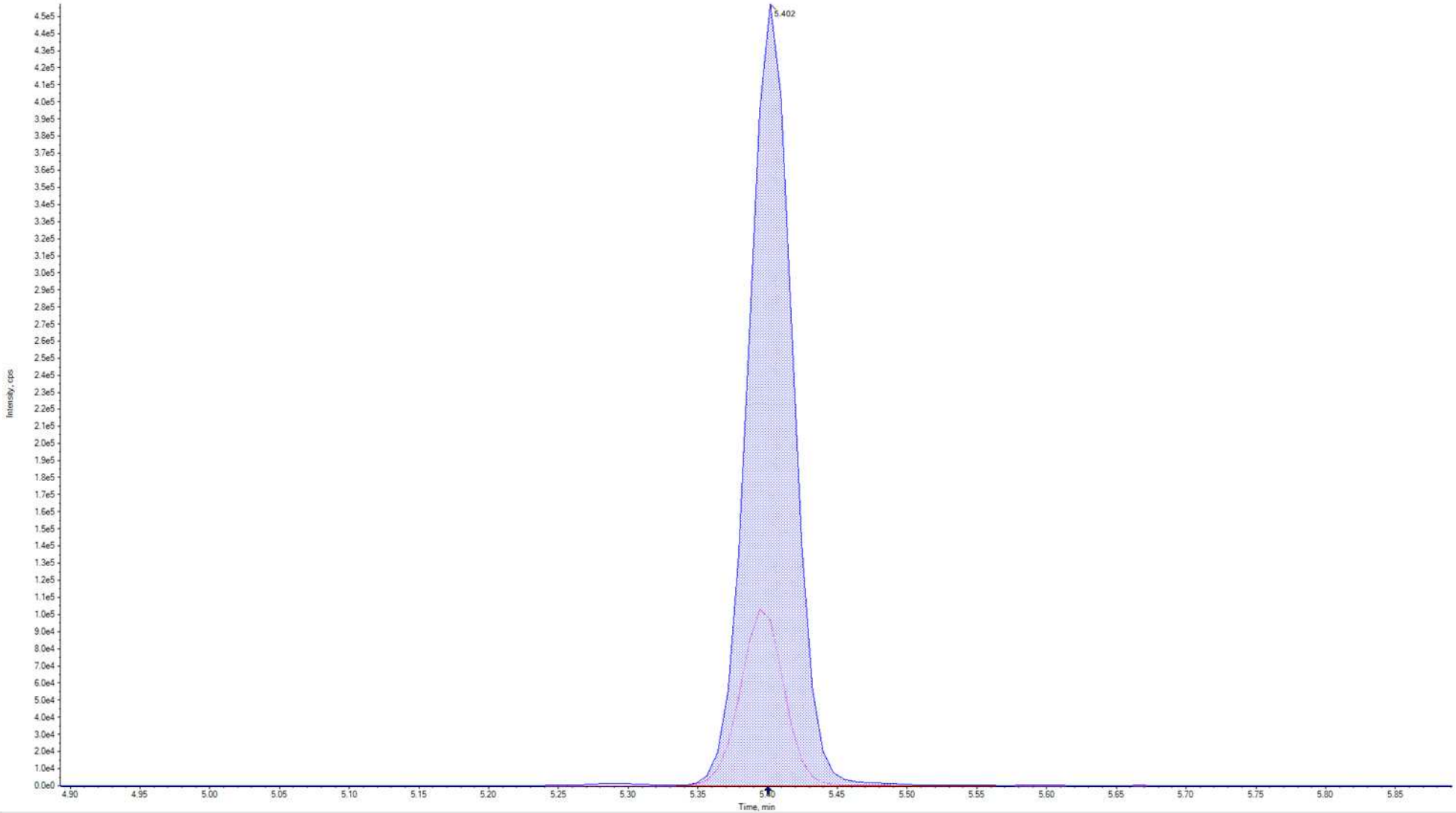
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFTrDA_2
Sample: IA1633STD-5 S/N:3249.4 Points Across peak:28



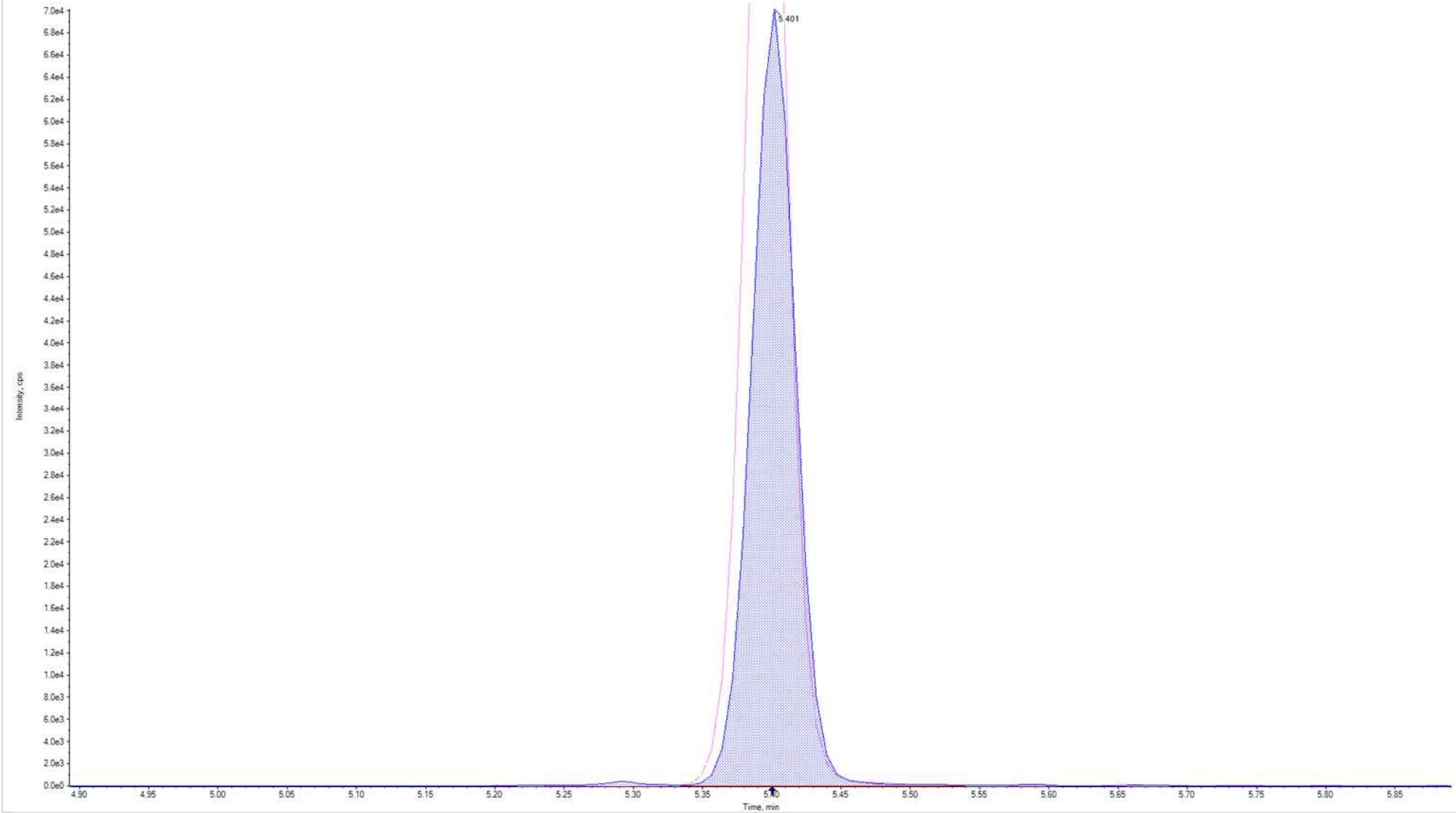
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFTeDA
Sample: IA1633STD-5 S/N:9918.5 Points Across peak:30



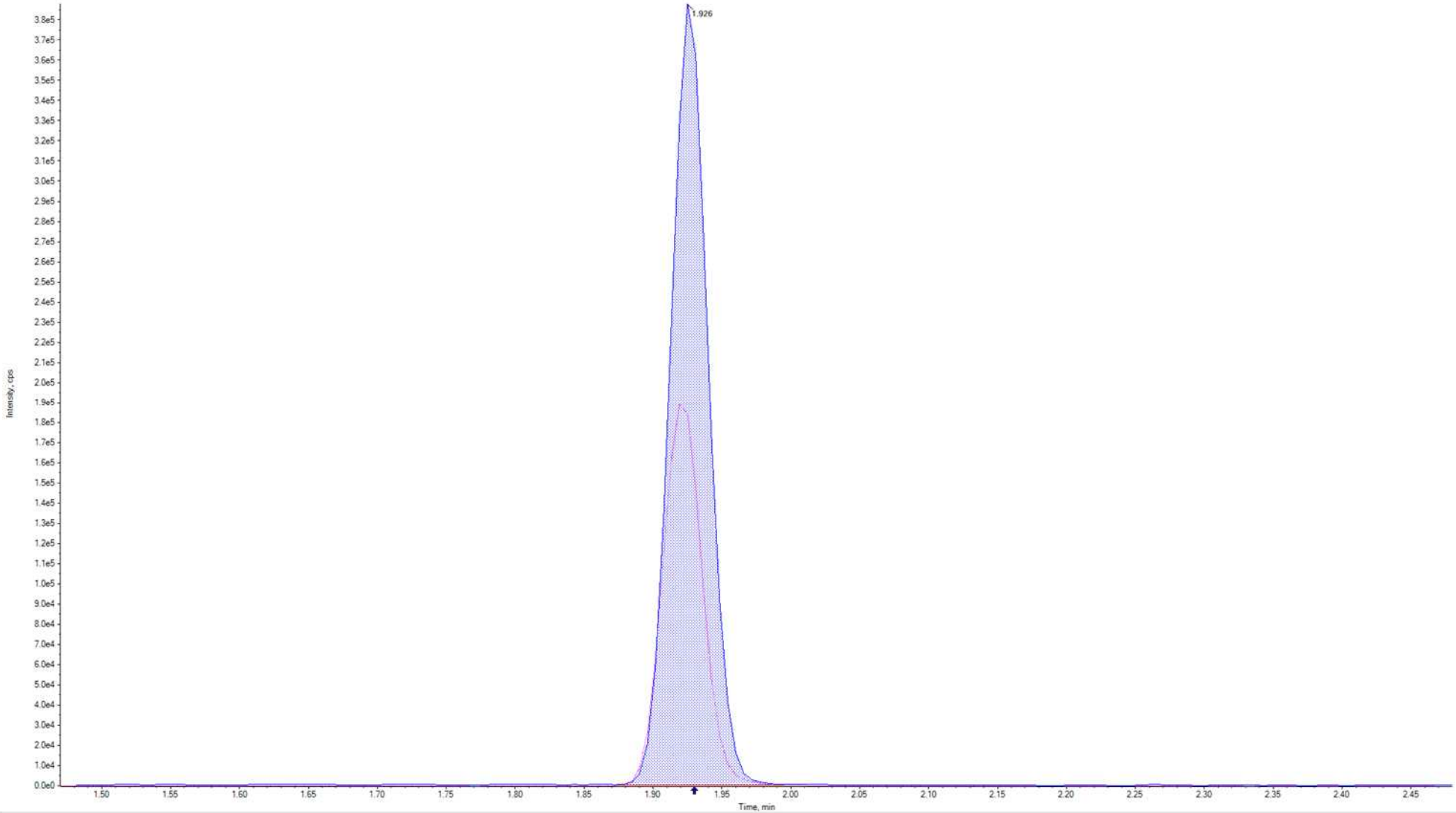
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFTeDA_2
Sample: IA1633STD-5 S/N:1586.4 Points Across peak:26



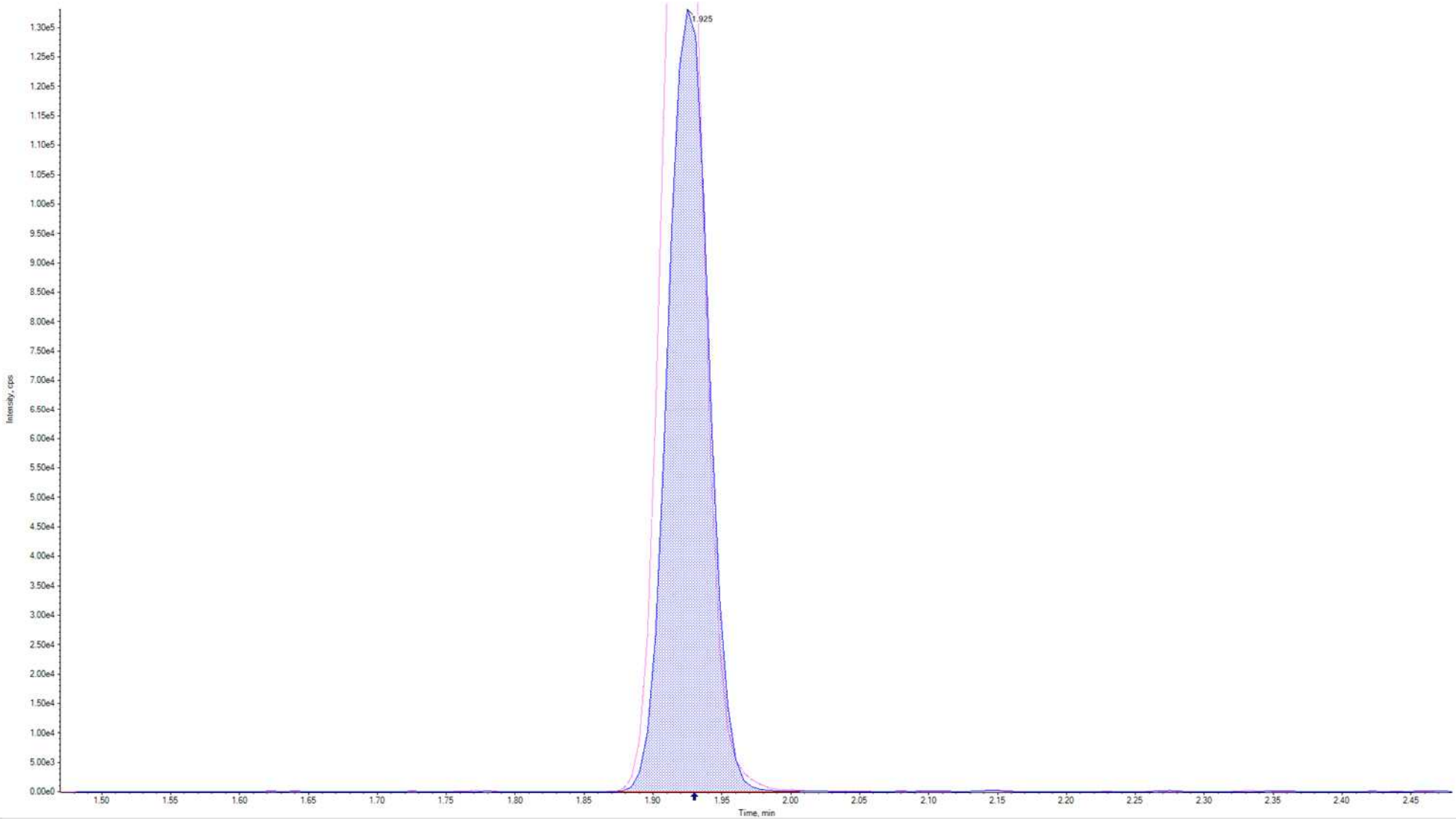
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PFBS
Sample: IA1633STD-5 S/N:2670.2 Points Across peak:22



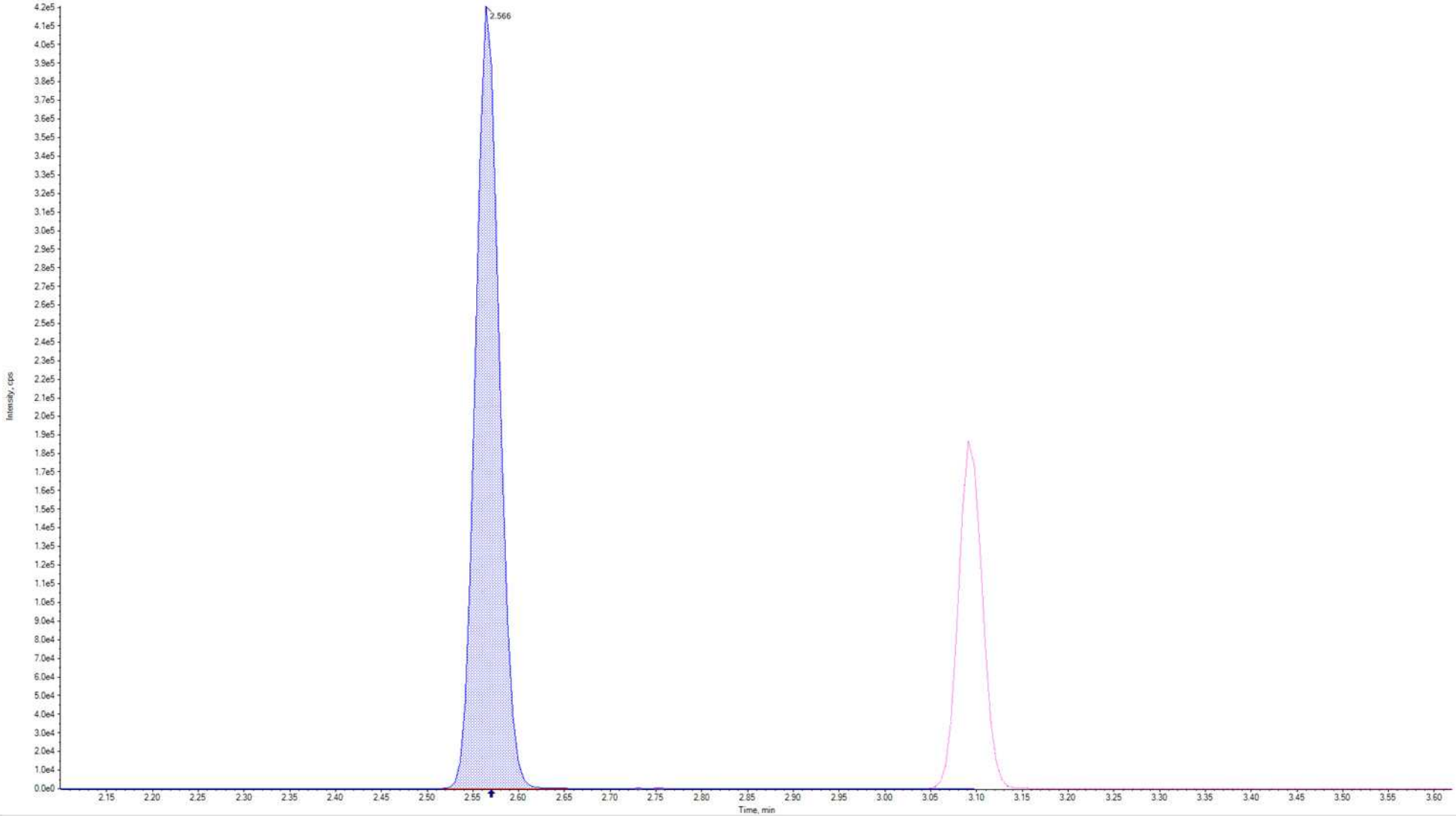
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Alpha Analytical LLC
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PFBS_2
Sample: IA1633STD-5 S/N:2620.1 Points Across peak:27



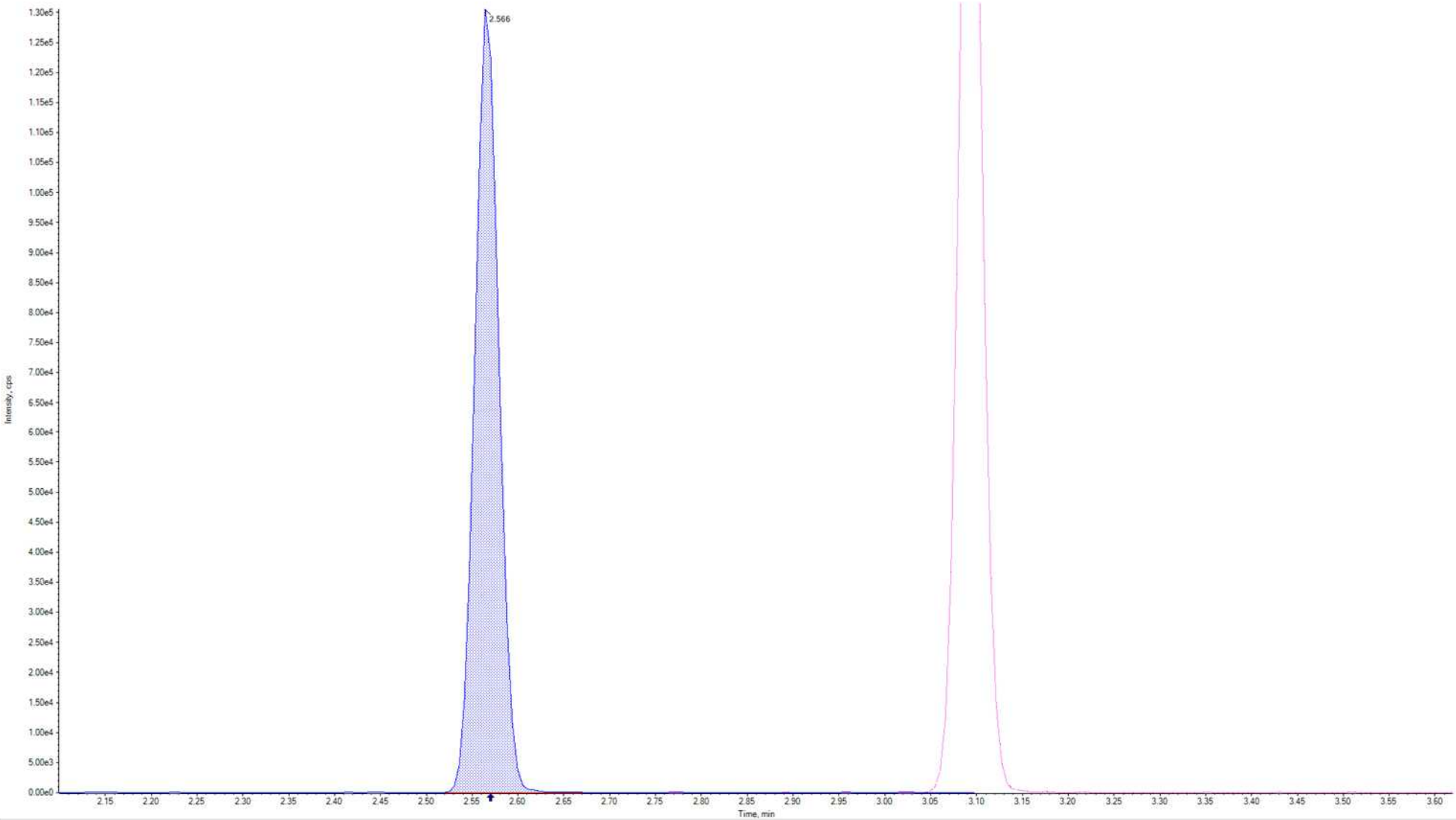
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Alpha Analytical LLC
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PFPeS
Sample: IA1633STD-5 S/N:4625.9 Points Across peak:30



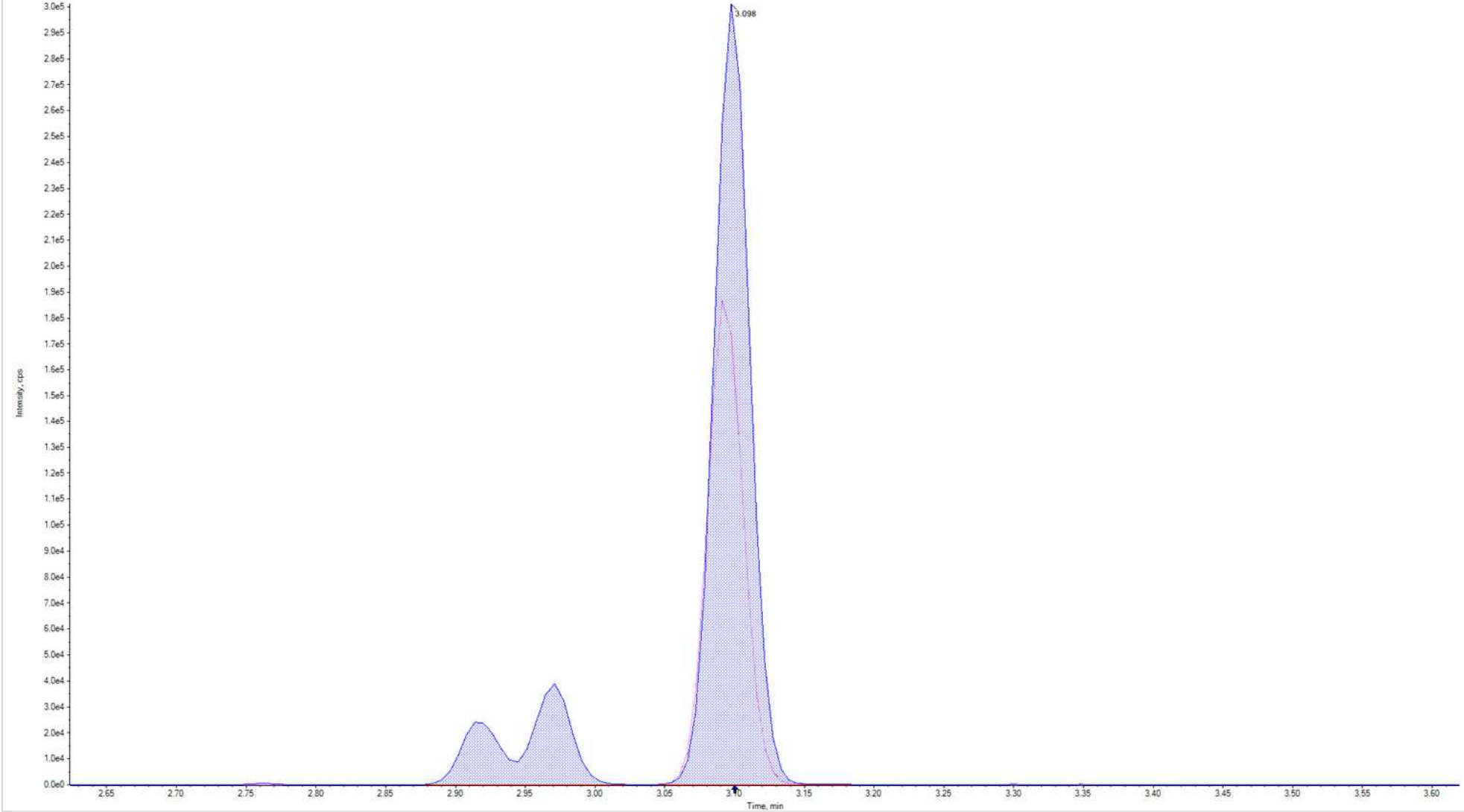
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Alpha Analytical LLC
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PFPeS_2
Sample: IA1633STD-5 S/N:2617.7 Points Across peak:30



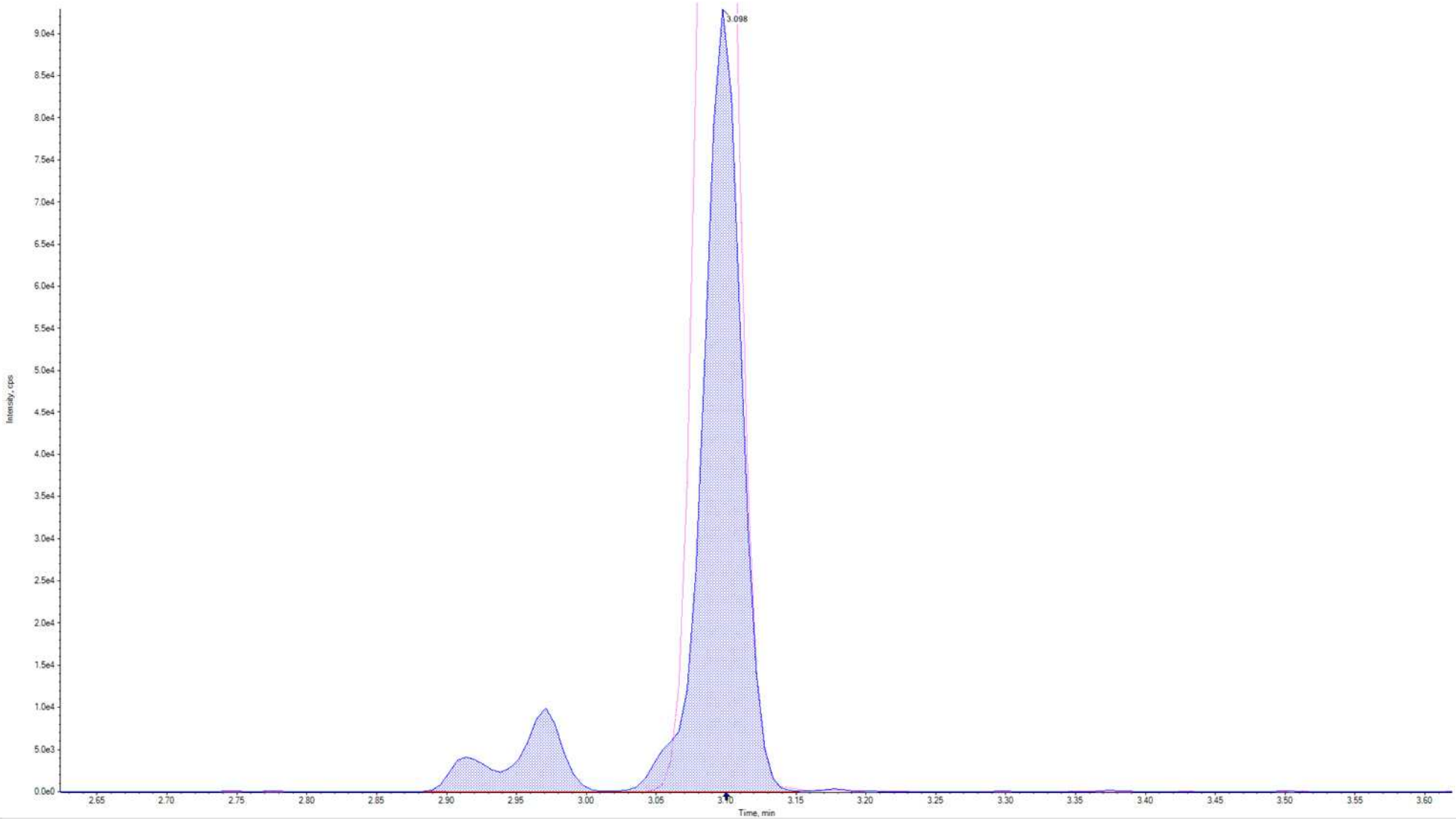
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Alpha Analytical LLC
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PFHxS
Sample: IA1633STD-5 S/N:1292.4 Points Across peak:55



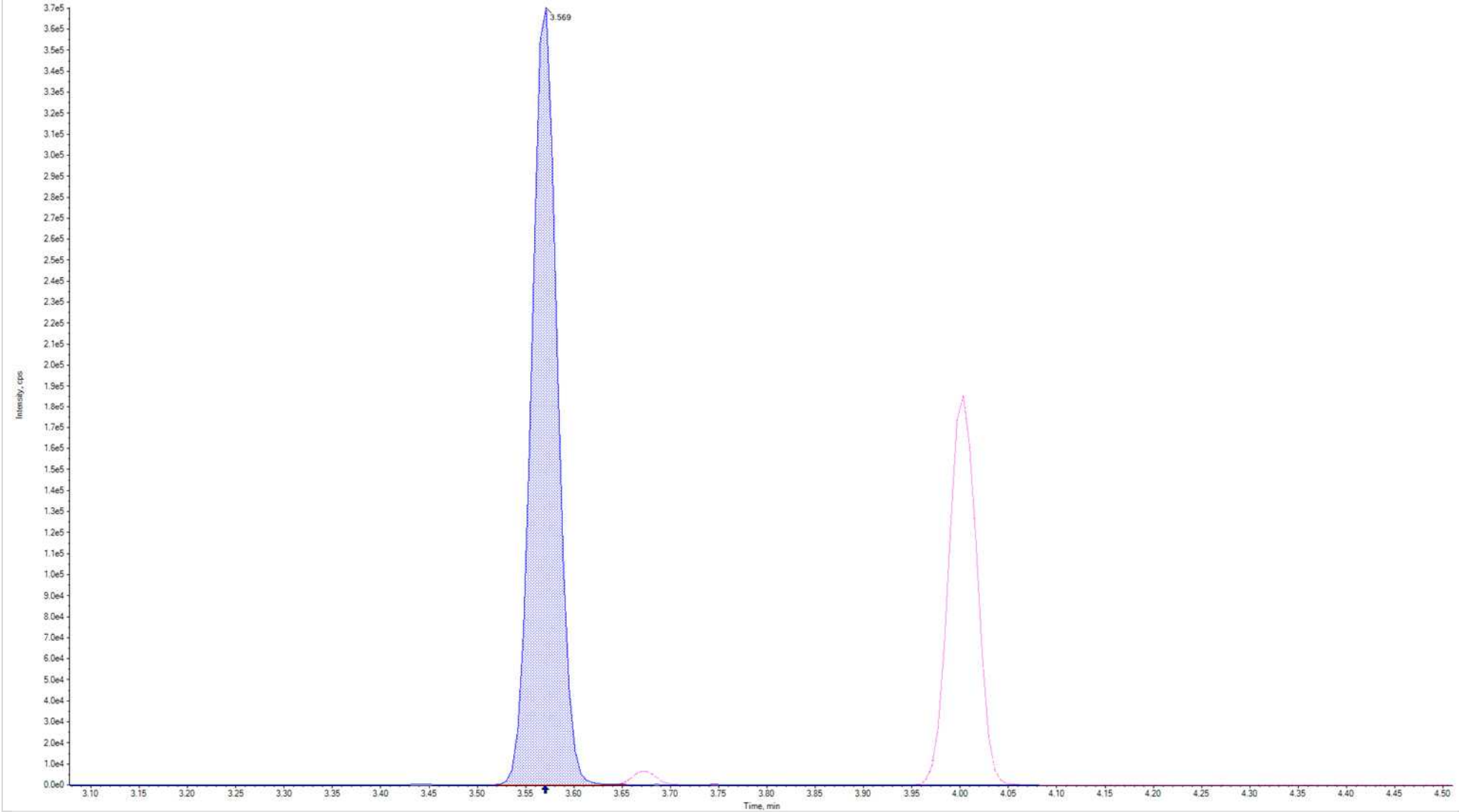
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Alpha Analytical LLC
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PFHxS_2
Sample: IA1633STD-5 S/N:1061.8 Points Across peak:46



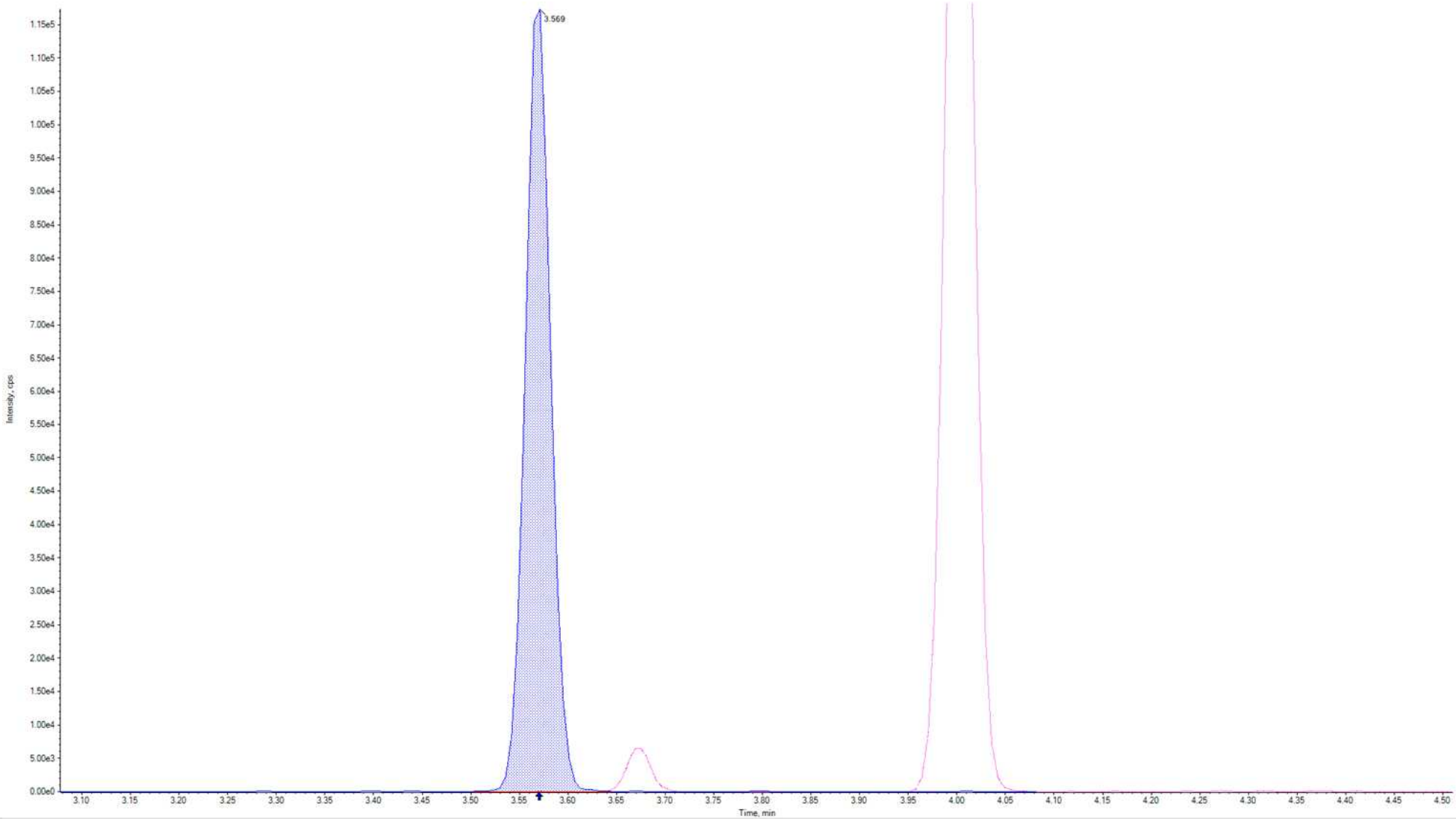
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHpS
Sample: IA1633STD-5 S/N:7425.2 Points Across peak:31



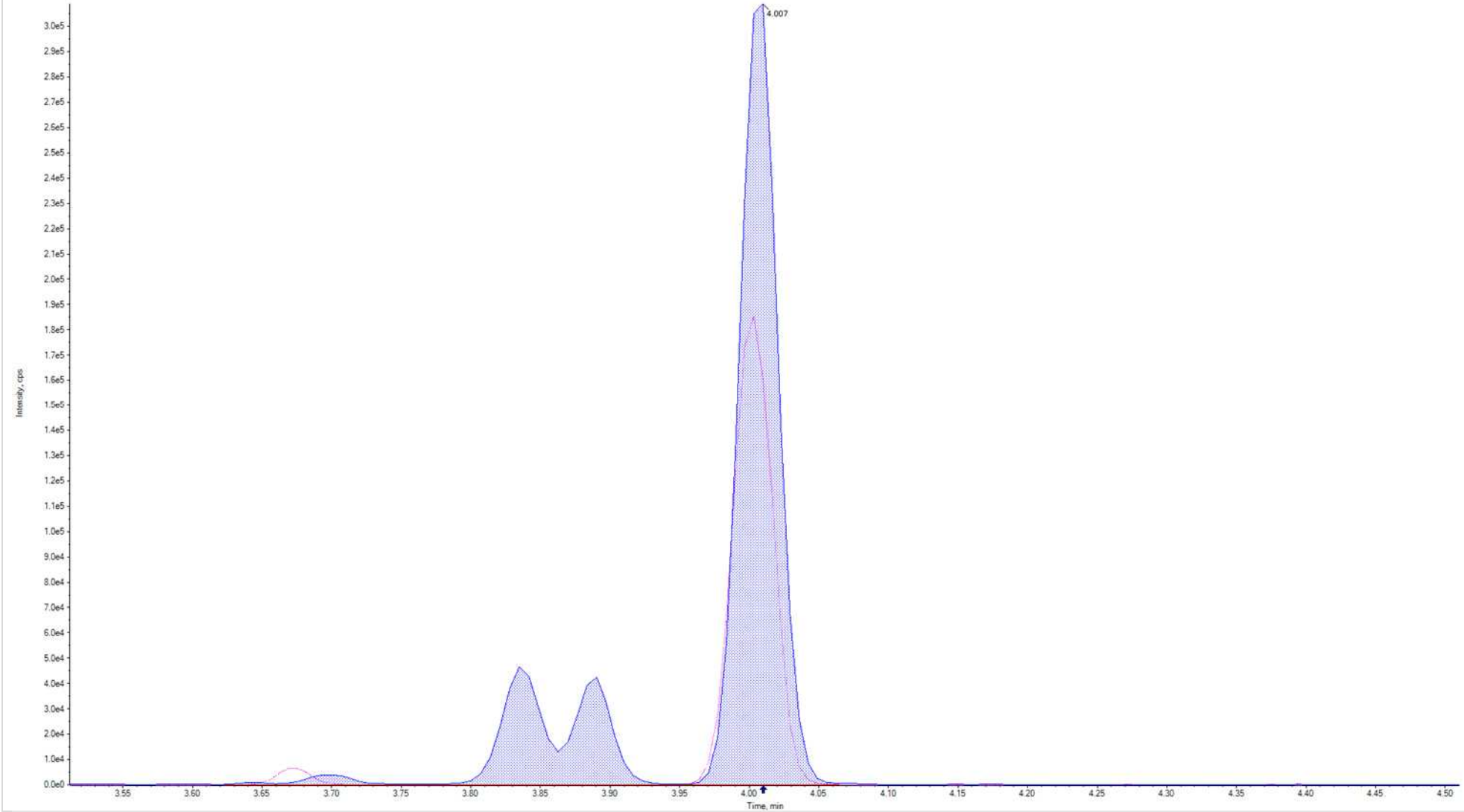
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHpS_2
Sample: IA1633STD-5 S/N:2352.8 Points Across peak:31



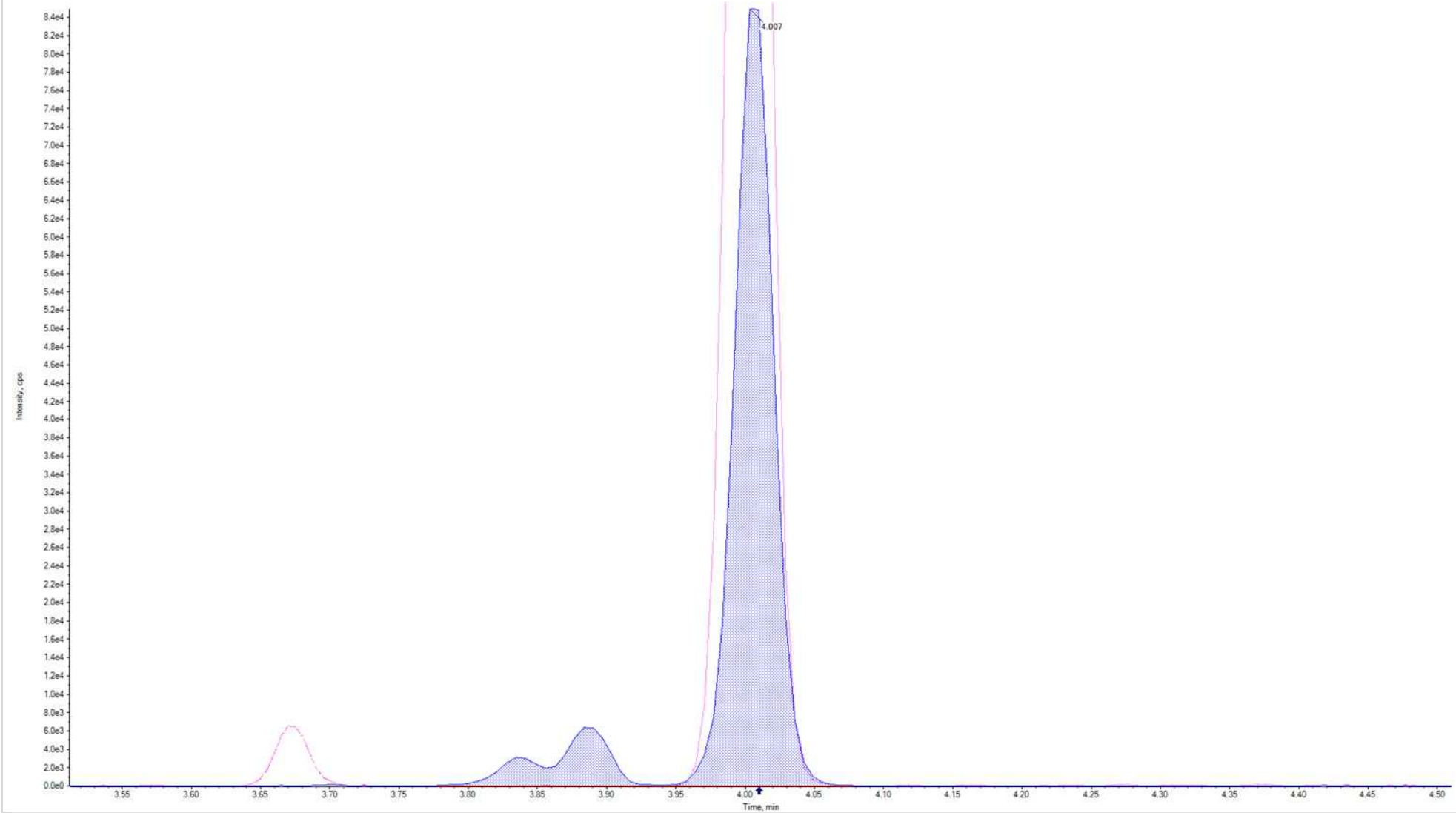
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOS
Sample: IA1633STD-5 S/N:524.9 Points Across peak:73



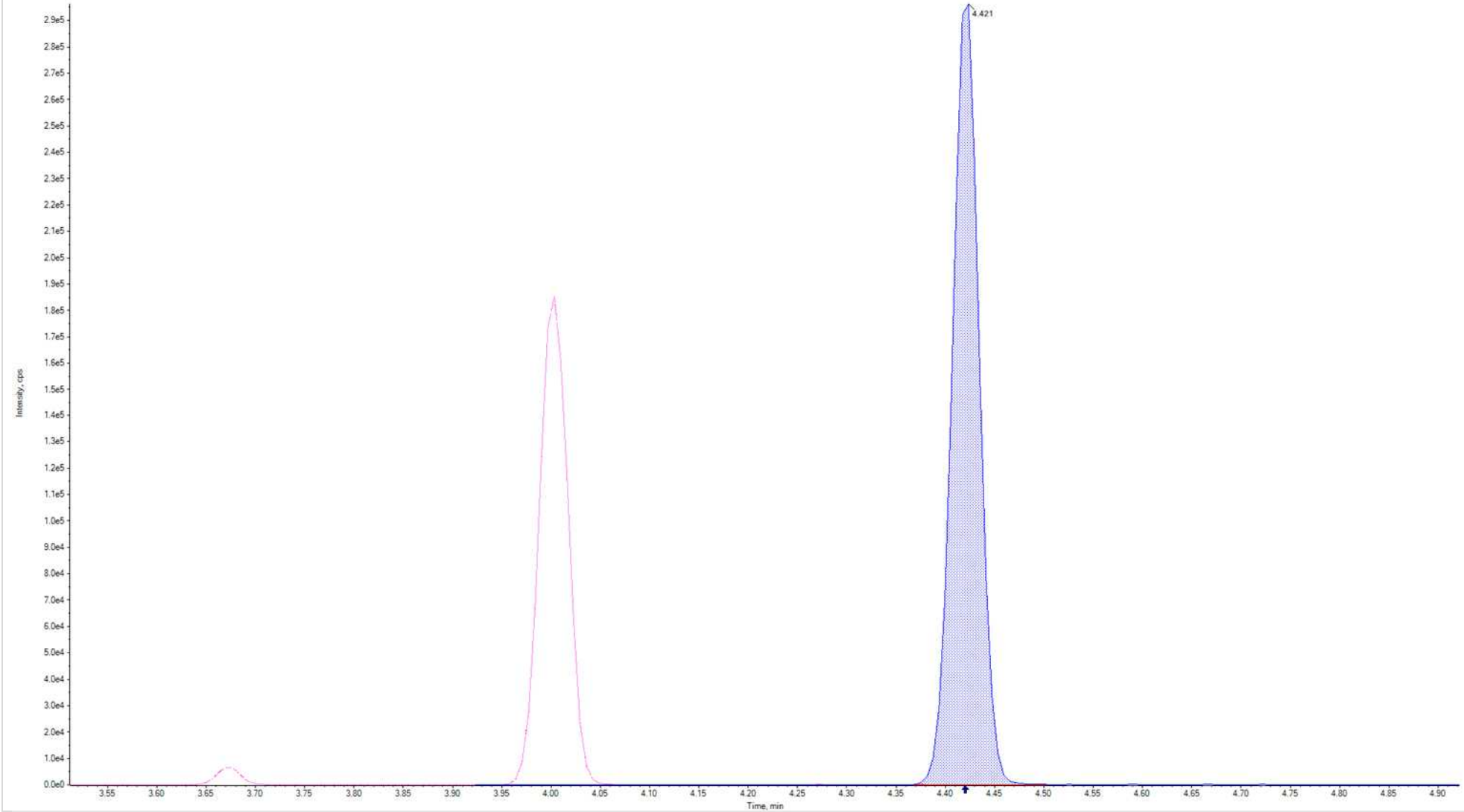
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFOS_2
Sample: IA1633STD-5 S/N:1345.4 Points Across peak:55



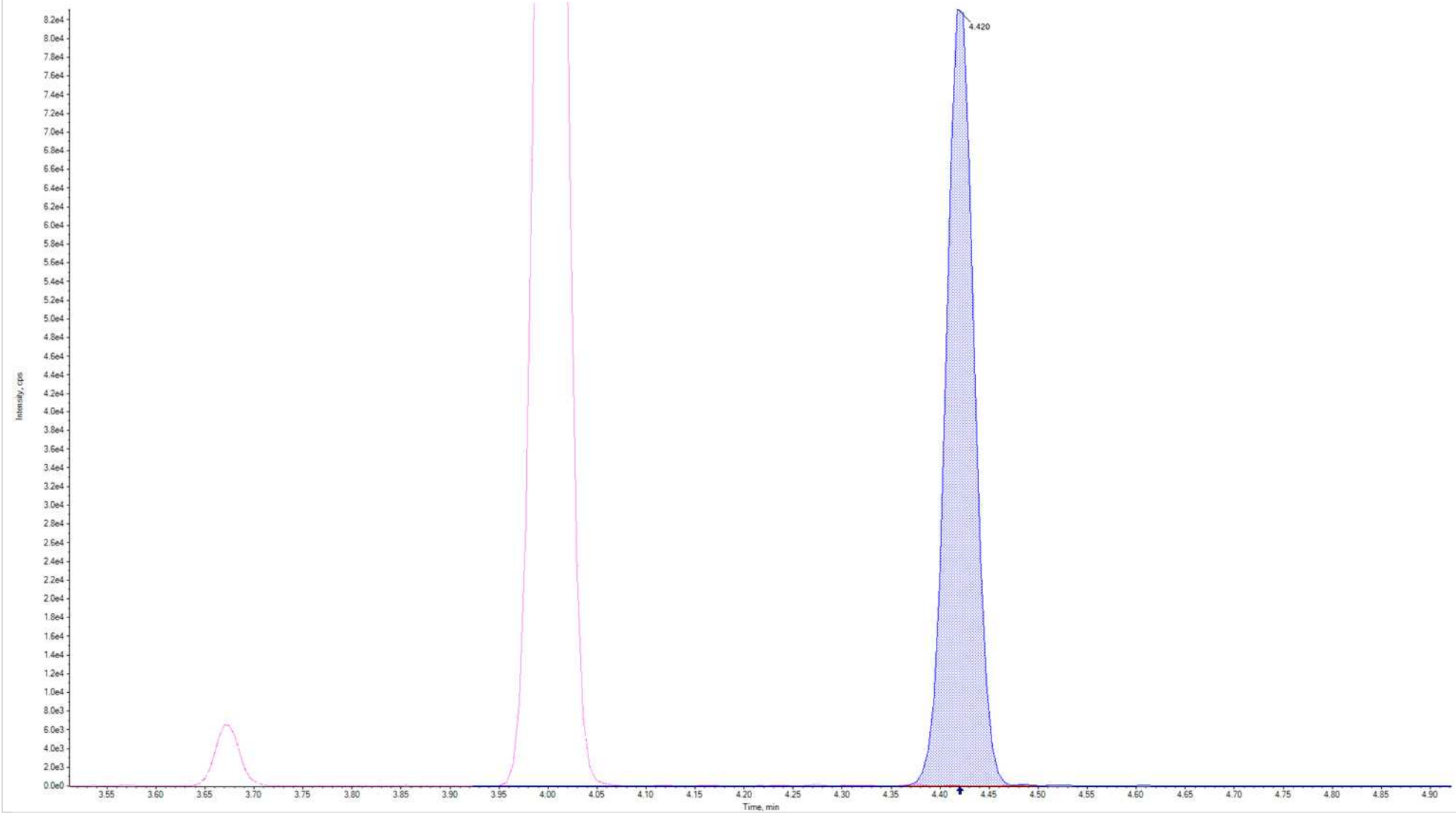
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS
Sample: IA1633STD-5 S/N:7426.4 Points Across peak:30



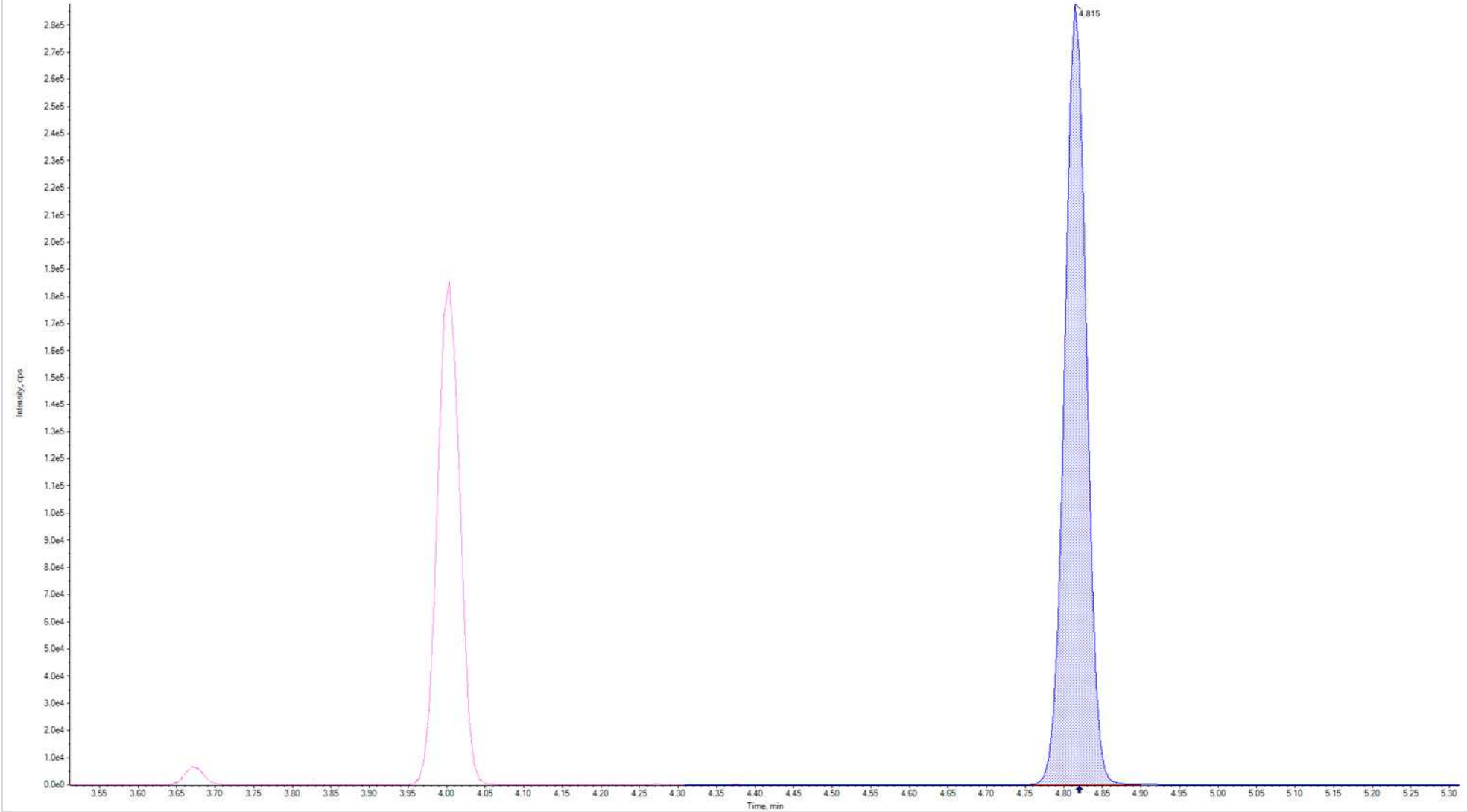
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS_2
Sample: IA1633STD-5 S/N:1915.3 Points Across peak:28



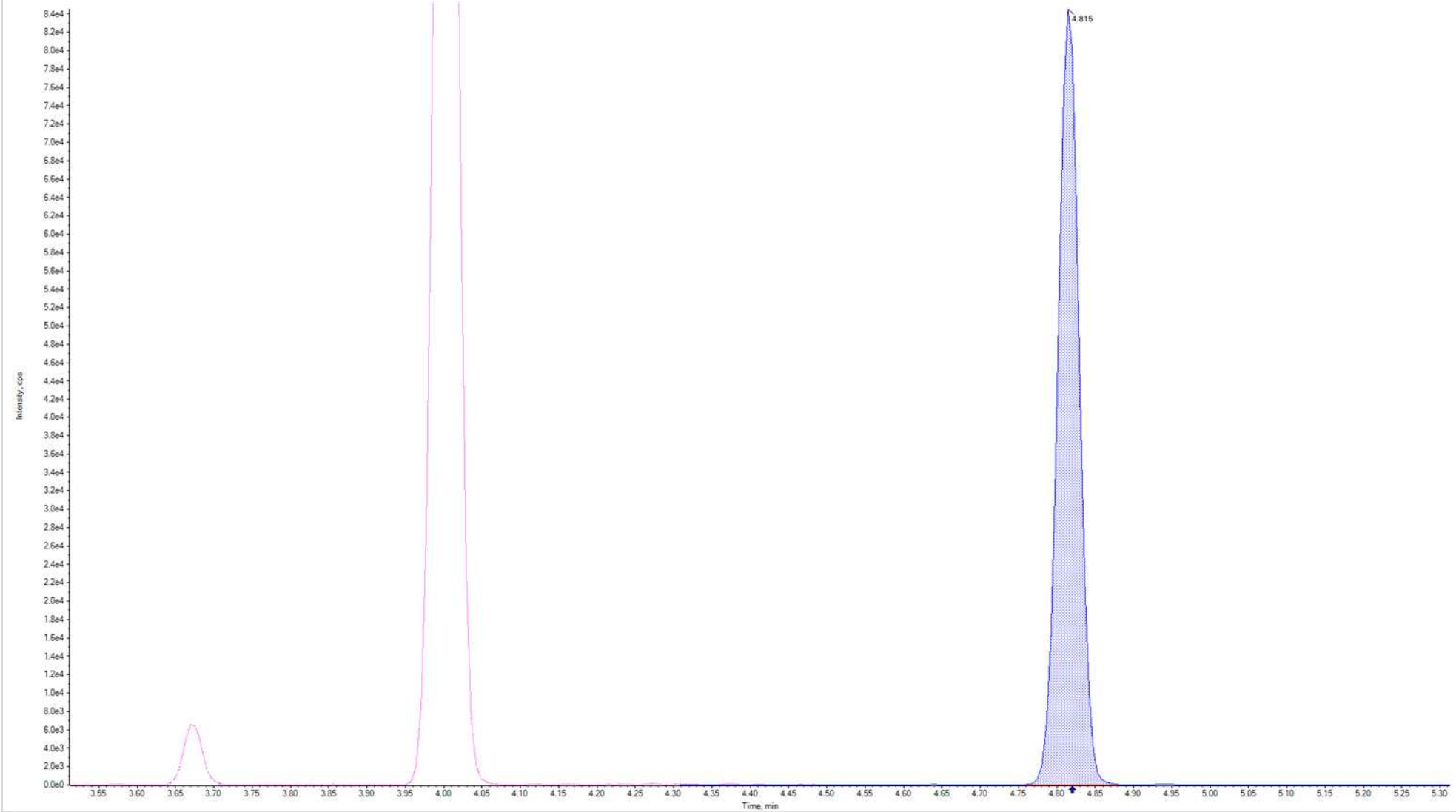
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDS
Sample: IA1633STD-5 S/N:5533.7 Points Across peak:30



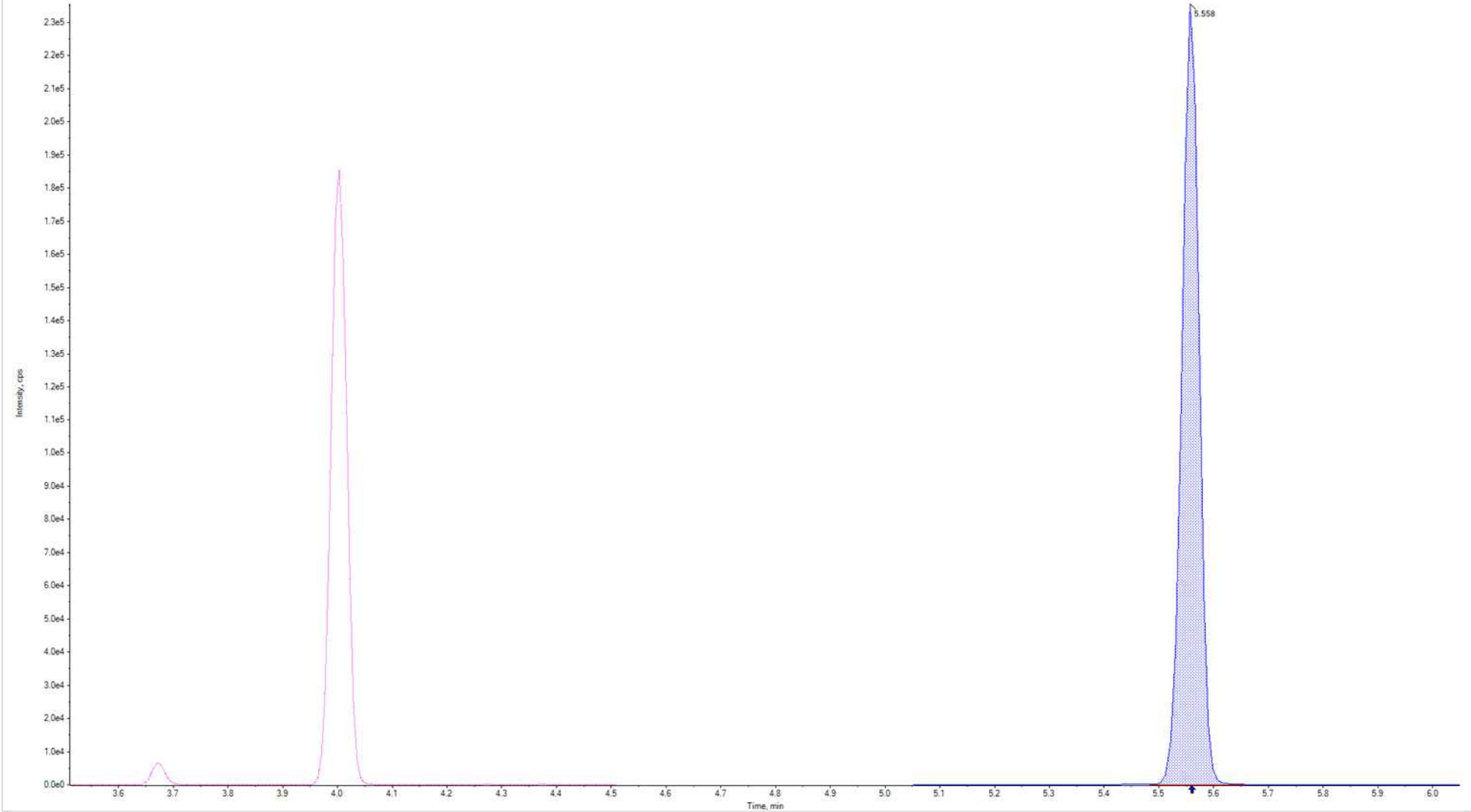
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFDS_2
Sample: IA1633STD-5 S/N:2965.8 Points Across peak:29



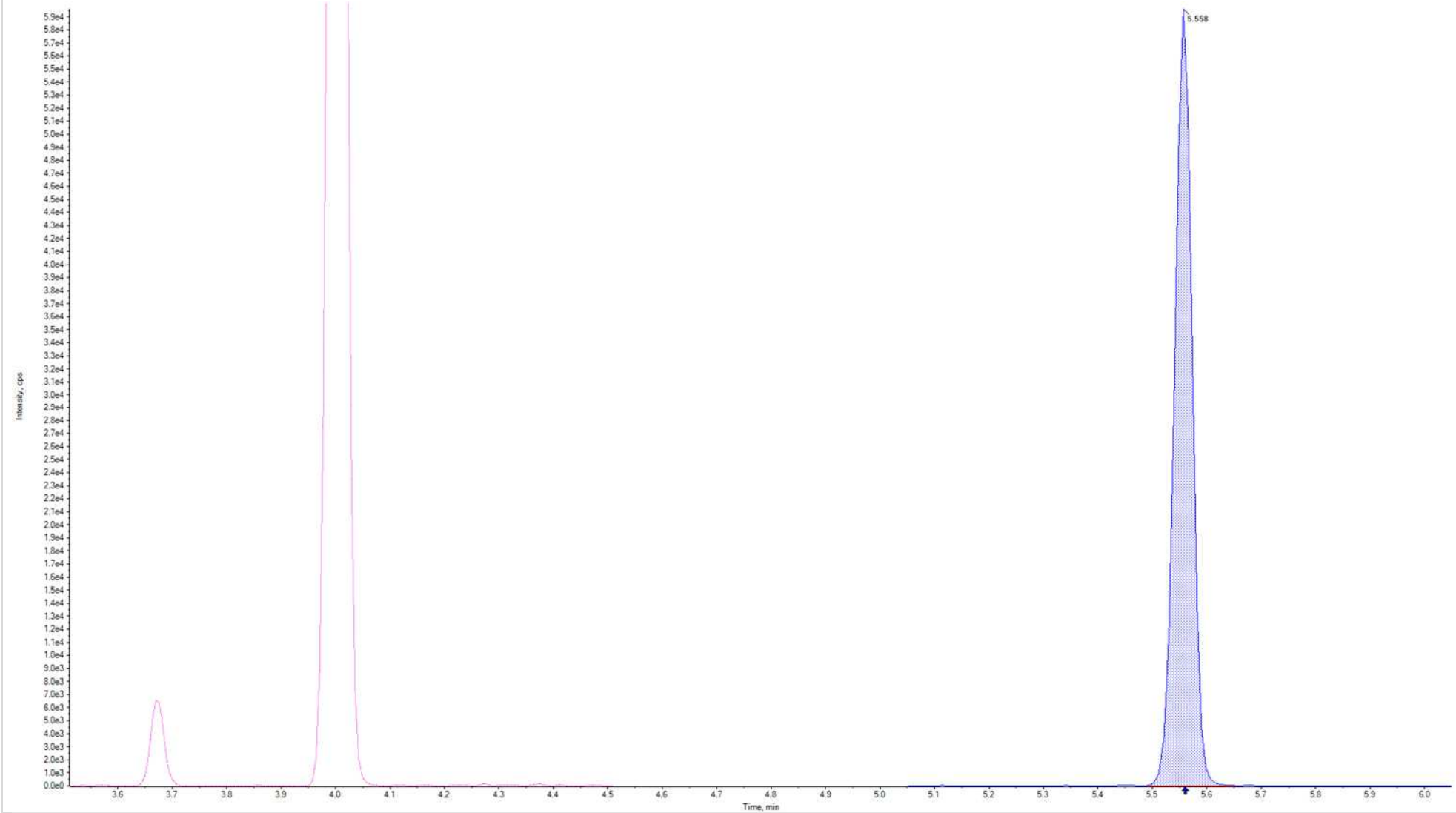
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFDoS
Sample: IA1633STD-5 S/N:7819.0 Points Across peak:23



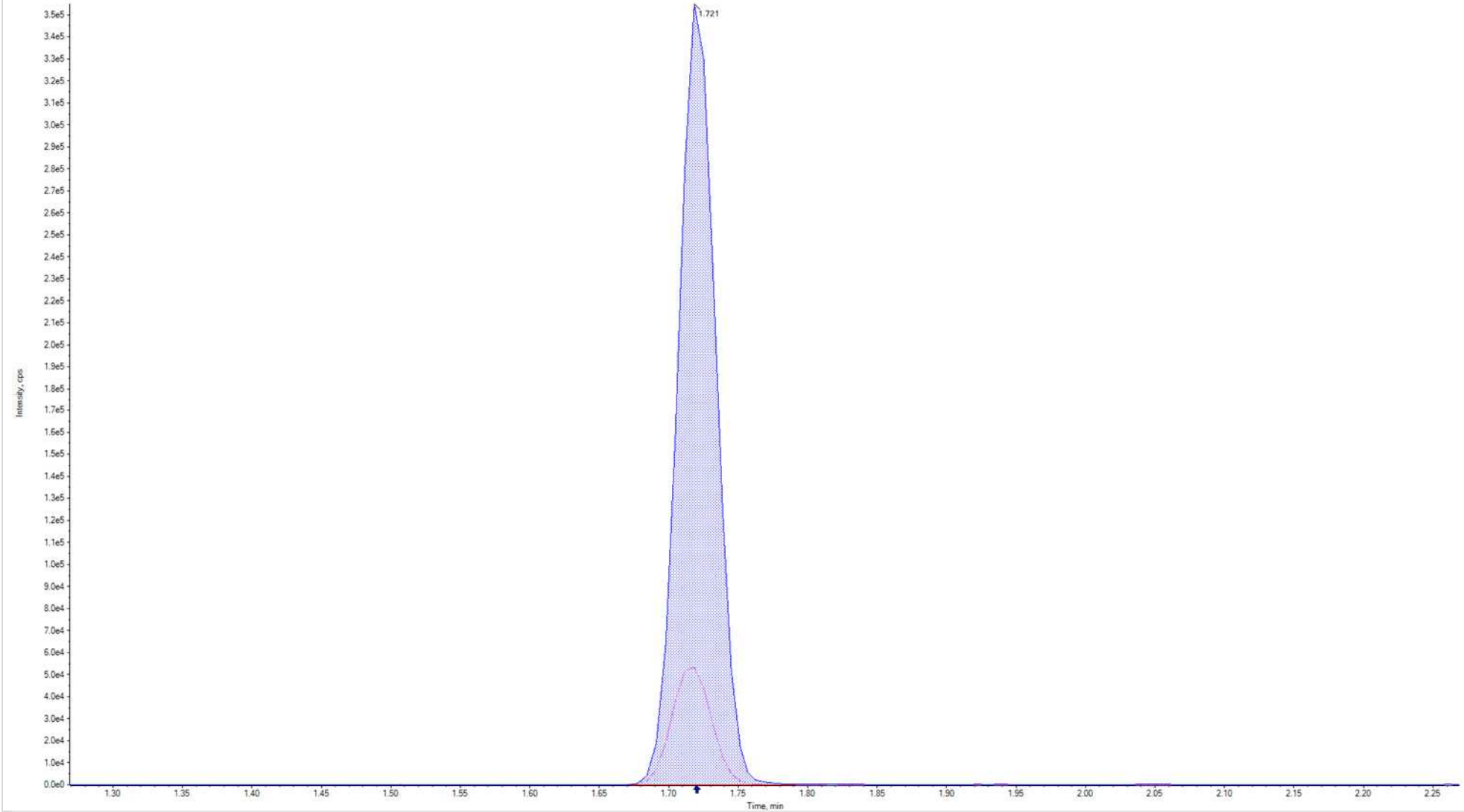
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
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PFDoS_2
Sample: IA1633STD-5 S/N:3538.3 Points Across peak:21



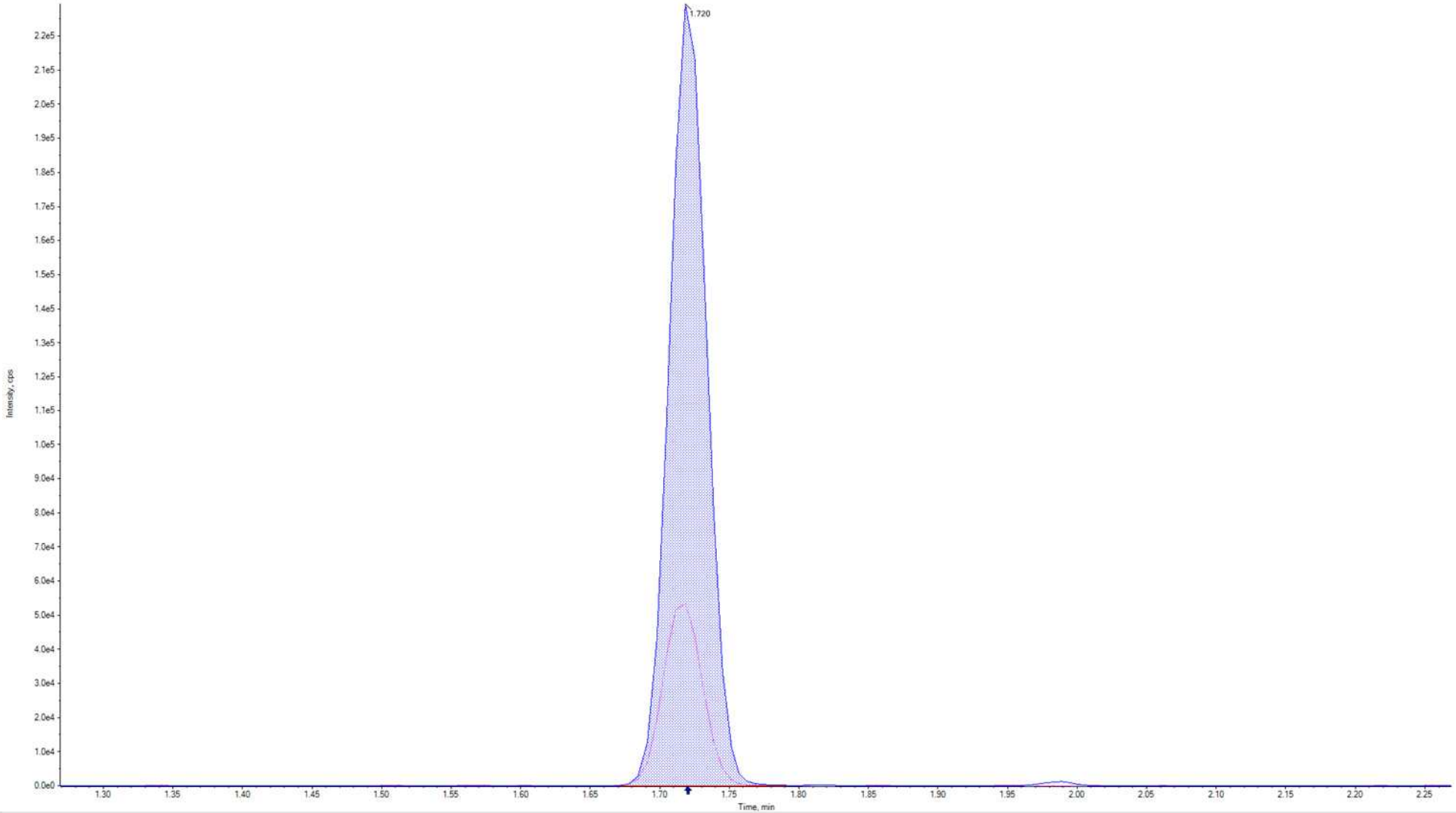
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

4:2FTS
Sample: IA1633STD-5 S/N:13345.6 Points Across peak:22



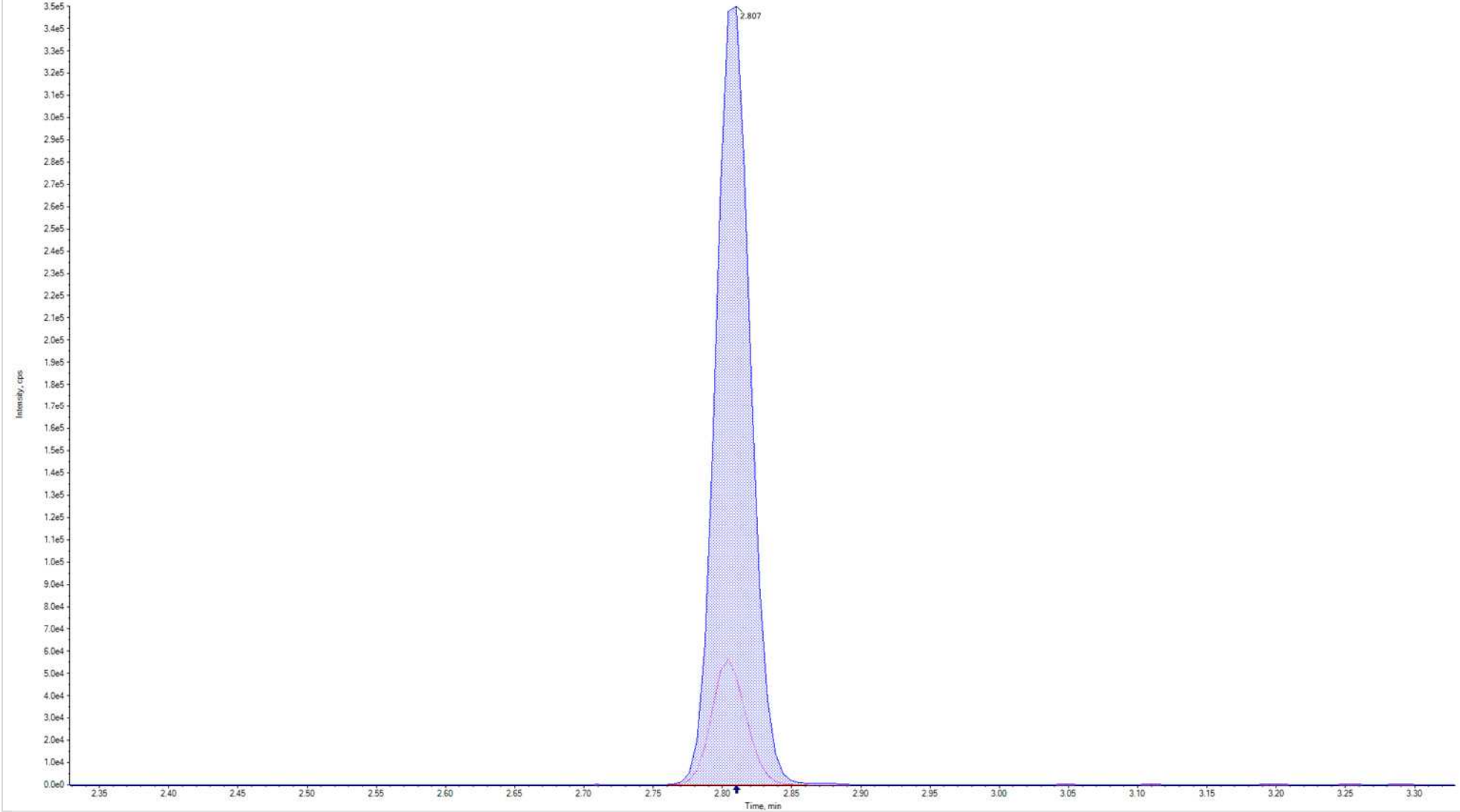
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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4:2FTS_2
Sample: IA1633STD-5 S/N:6618.9 Points Across peak:22



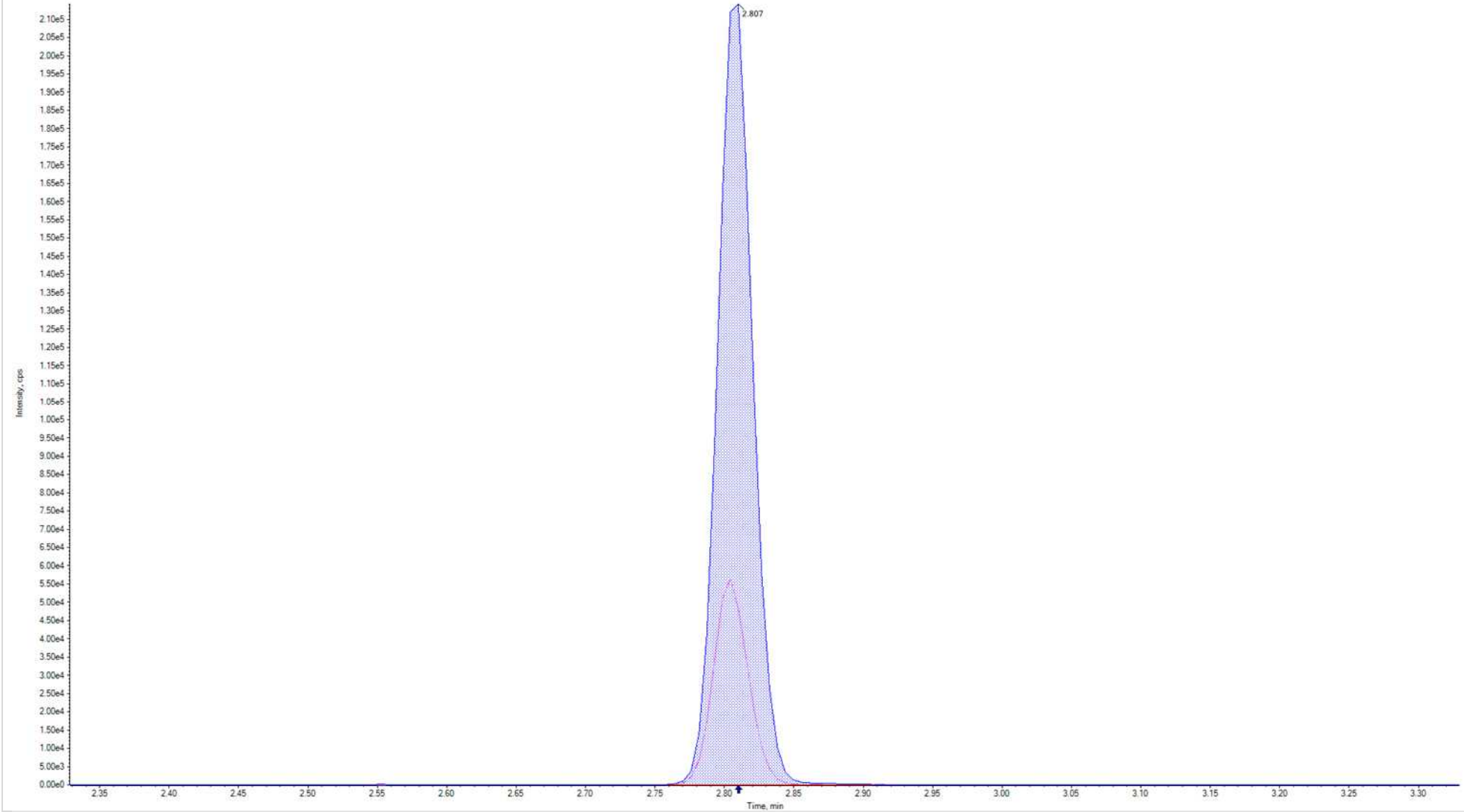
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
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6:2FTS
Sample: IA1633STD-5 S/N:7019.5 Points Across peak:20



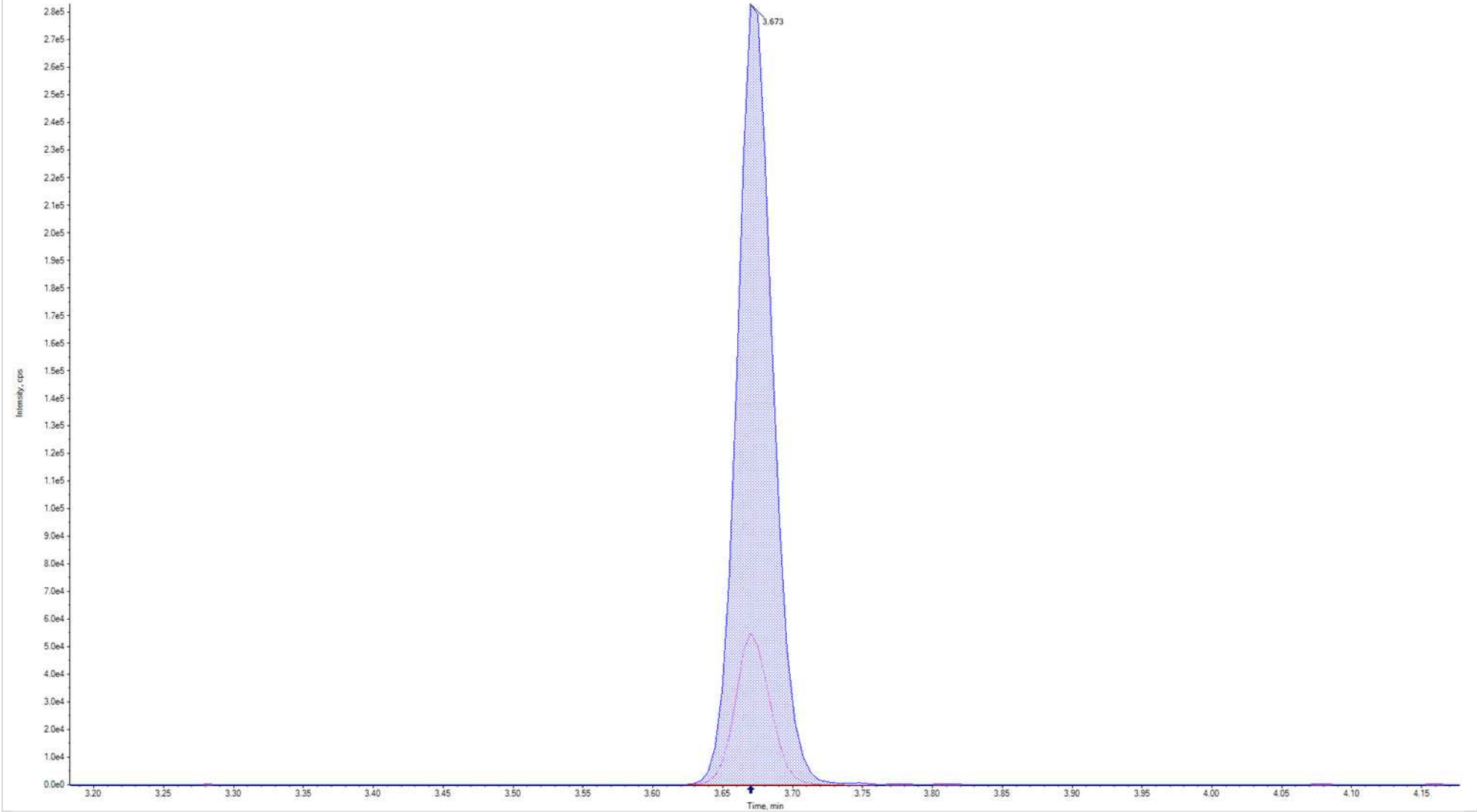
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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6:2FTS_2
Sample: IA1633STD-5 S/N:4295.5 Points Across peak:35



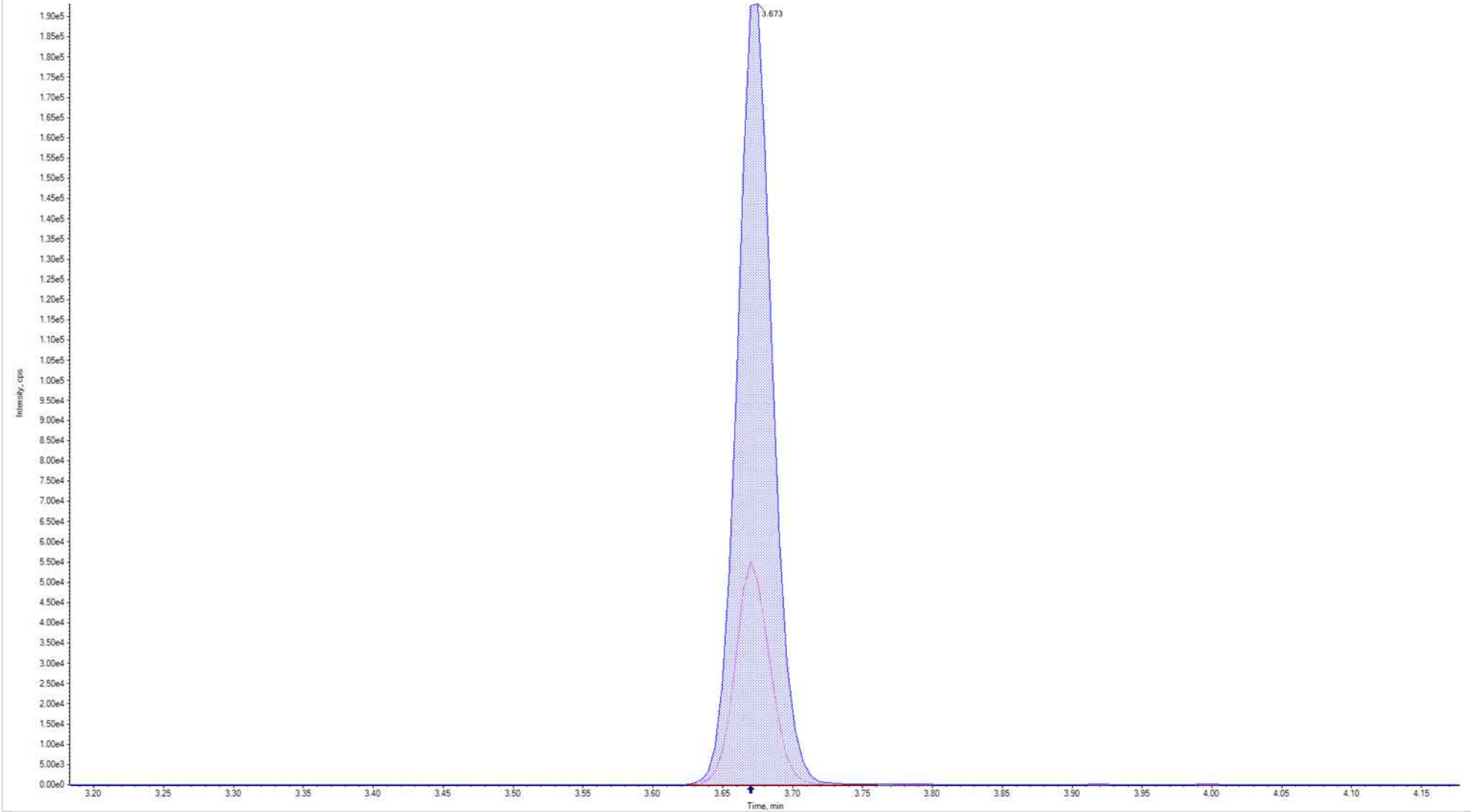
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

8:2FTS
Sample: IA1633STD-5 S/N:5674.4 Points Across peak:26



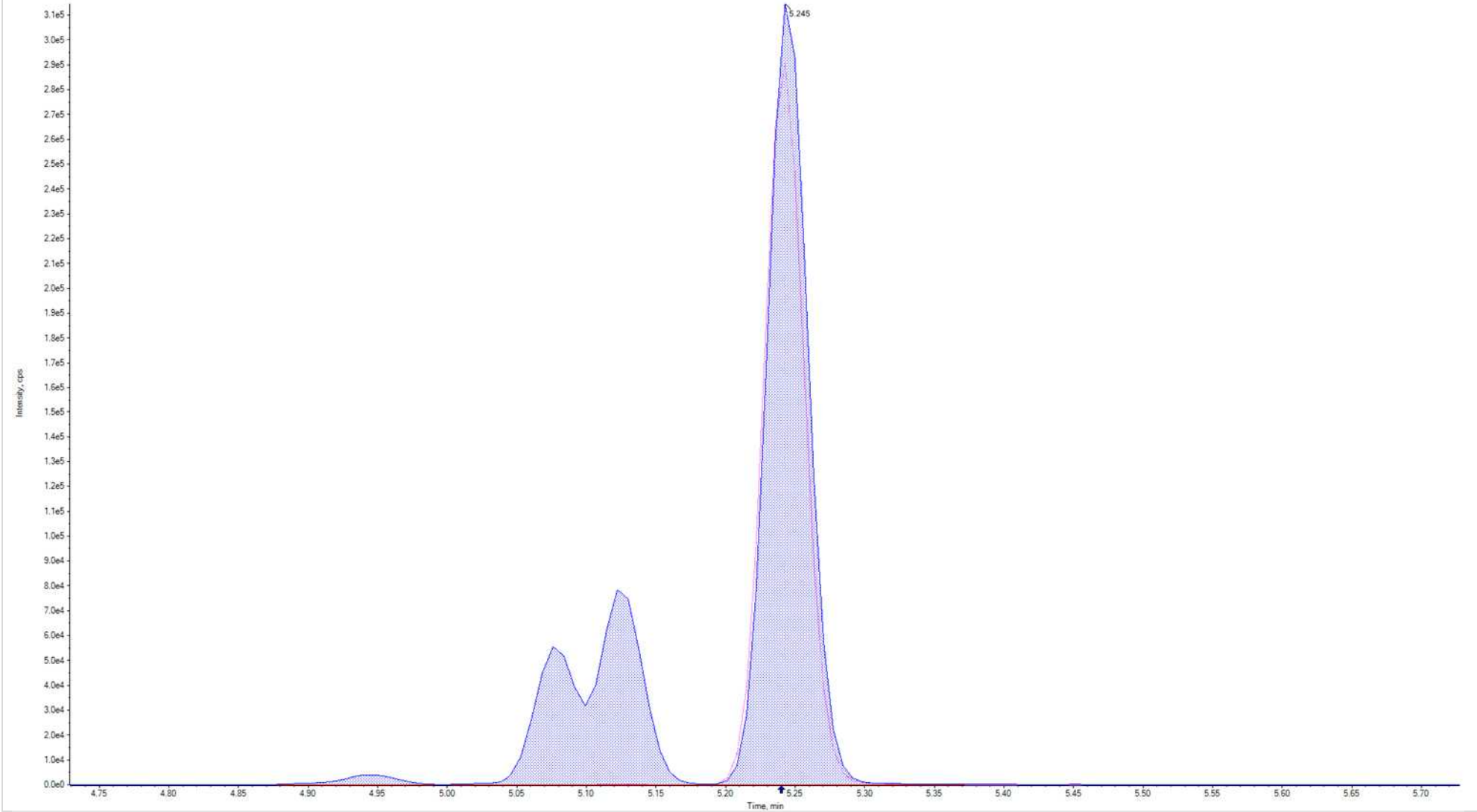
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

8:2FTS_2
Sample: IA1633STD-5 S/N:3872.9 Points Across peak:29



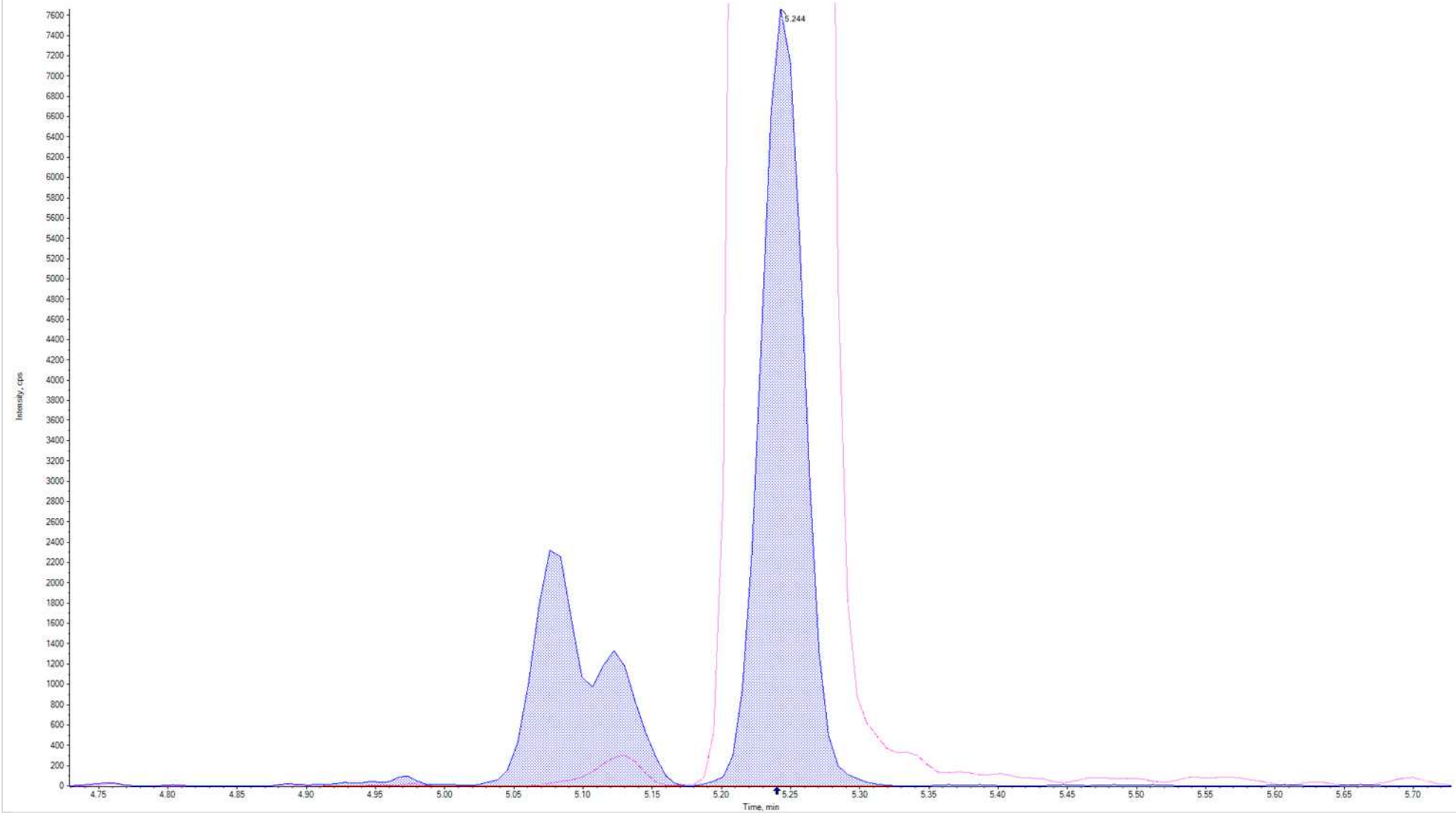
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Alpha Analytical LLC
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PFOSA
Sample: IA1633STD-5 S/N:352.1 Points Across peak:74



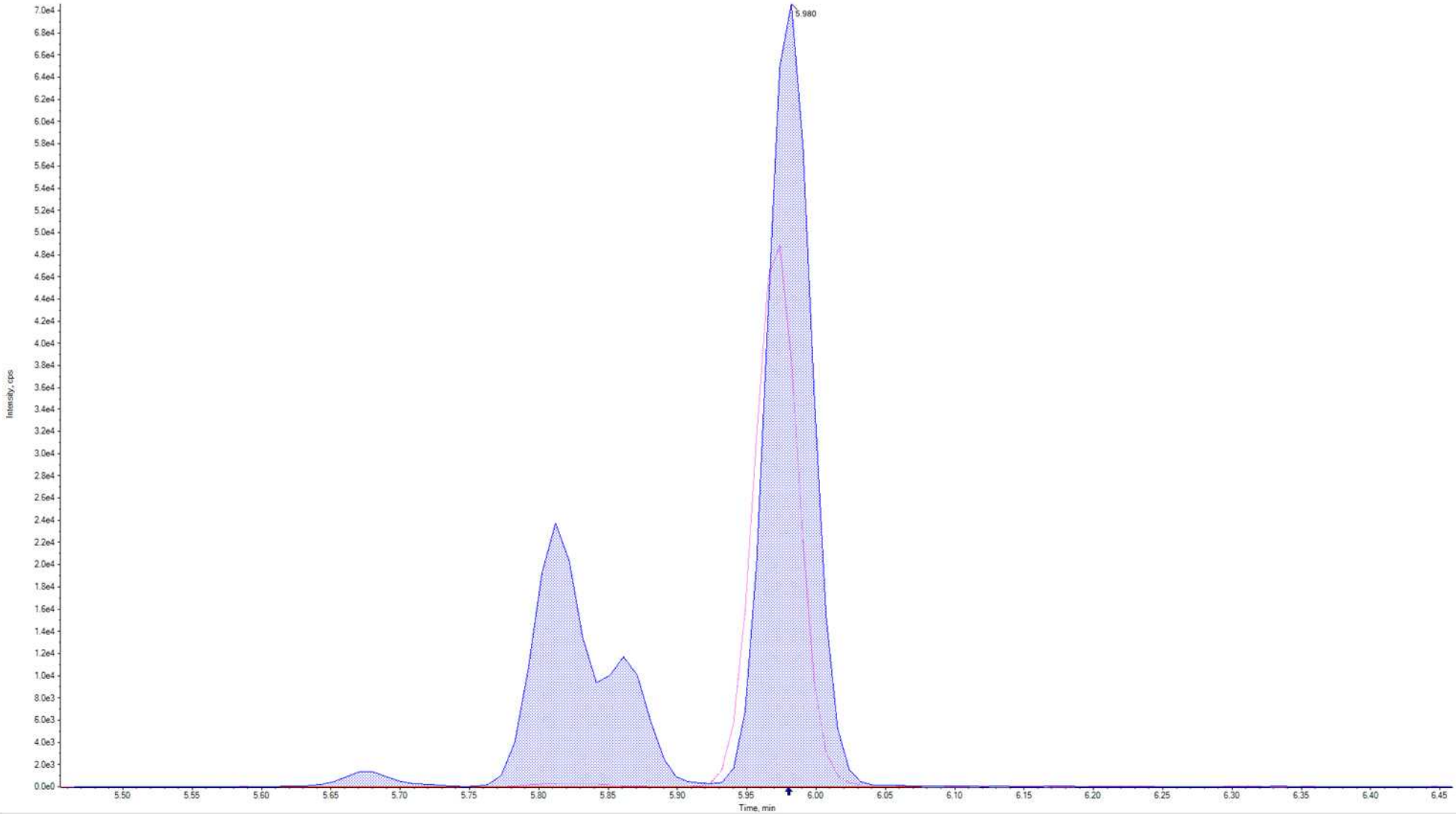
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOSA_2
Sample: IA1633STD-5 S/N:313.9 Points Across peak:62



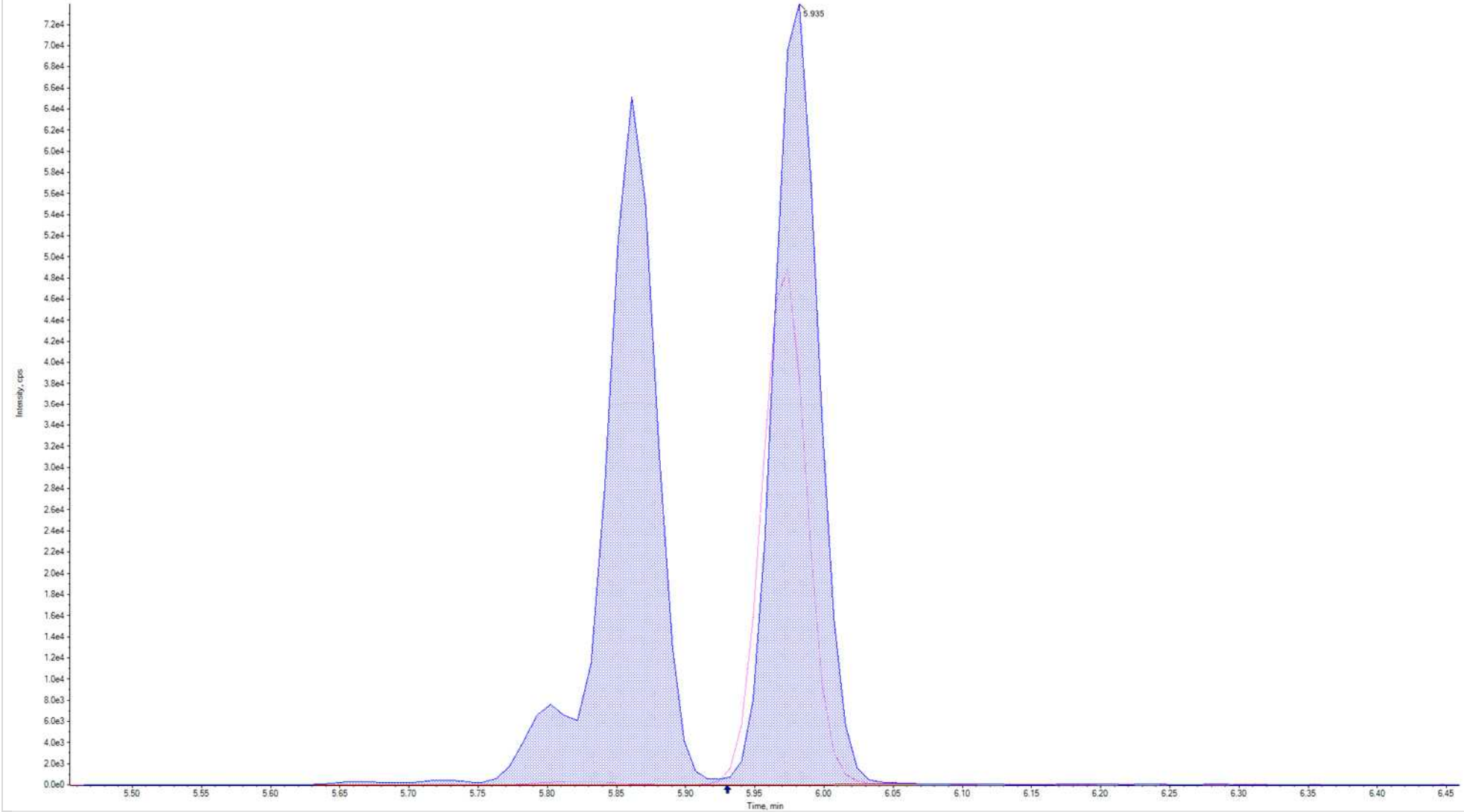
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NMeFOSA
Sample: IA1633STD-5 S/N:336.3 Points Across peak:55



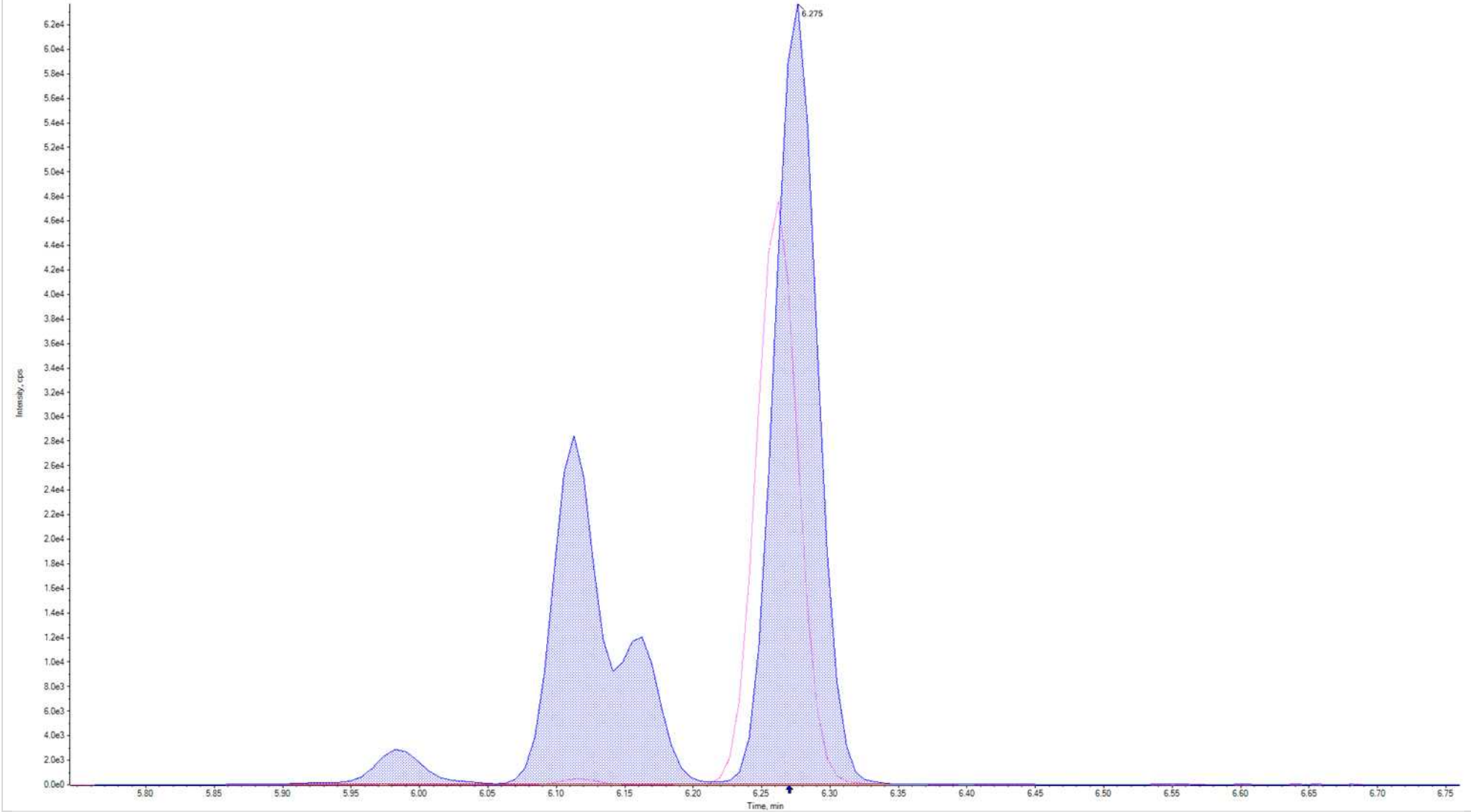
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSA_2
Sample: IA1633STD-5 S/N:310.7 Points Across peak:54



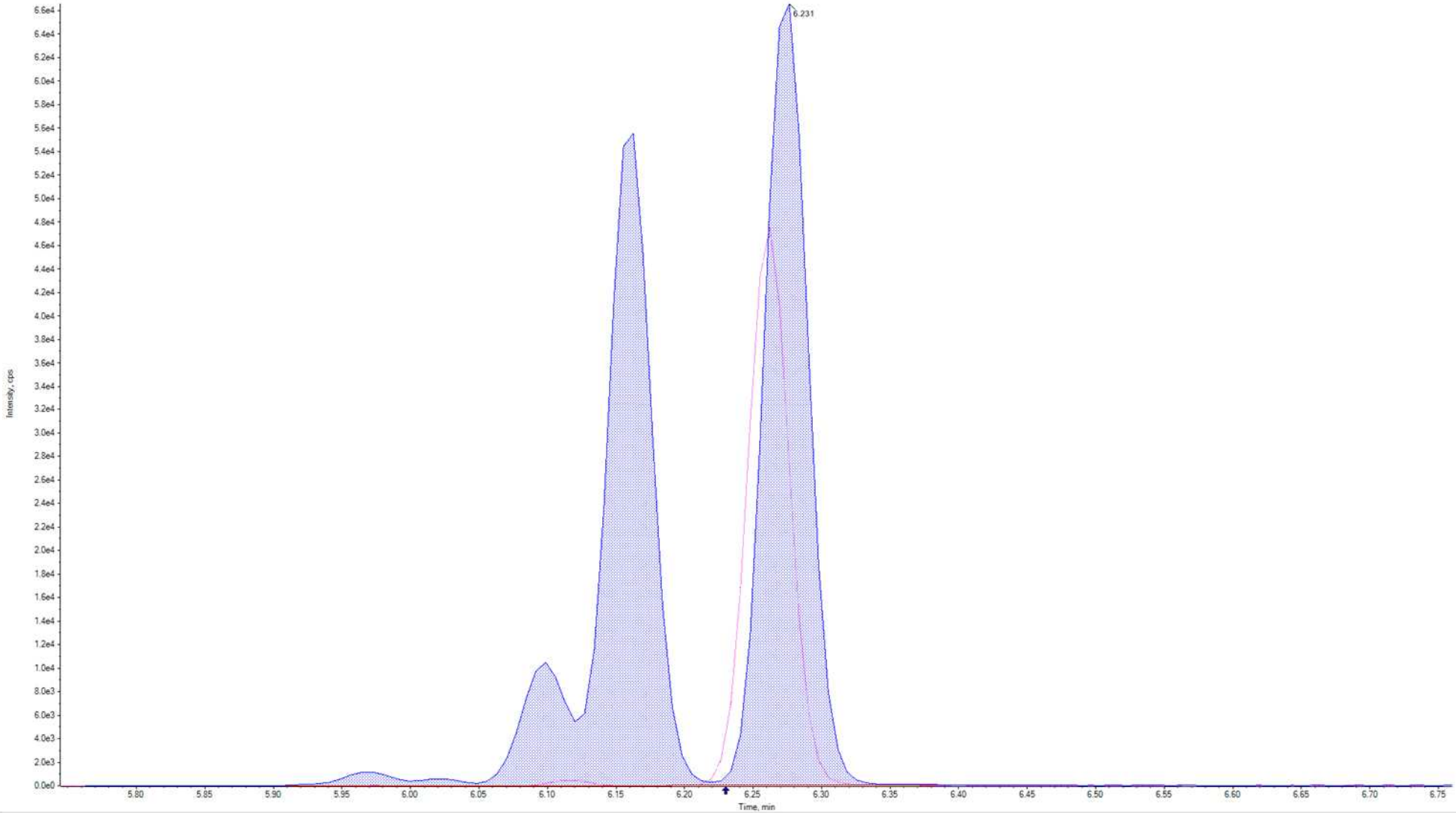
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NEtFOSA
Sample: IA1633STD-5 S/N:684.7 Points Across peak:66



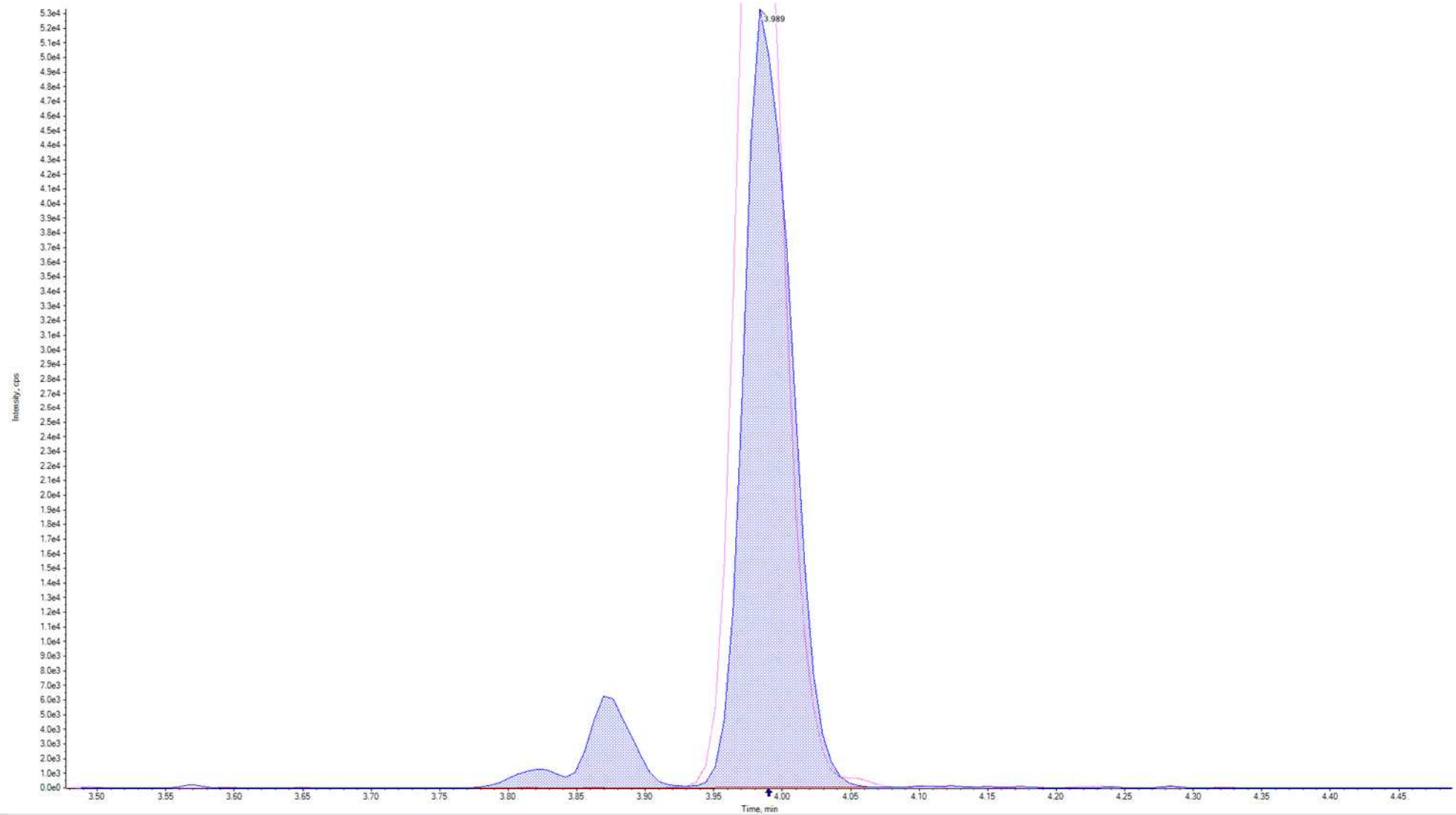
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSA_2
Sample: IA1633STD-5 S/N:662.4 Points Across peak:73



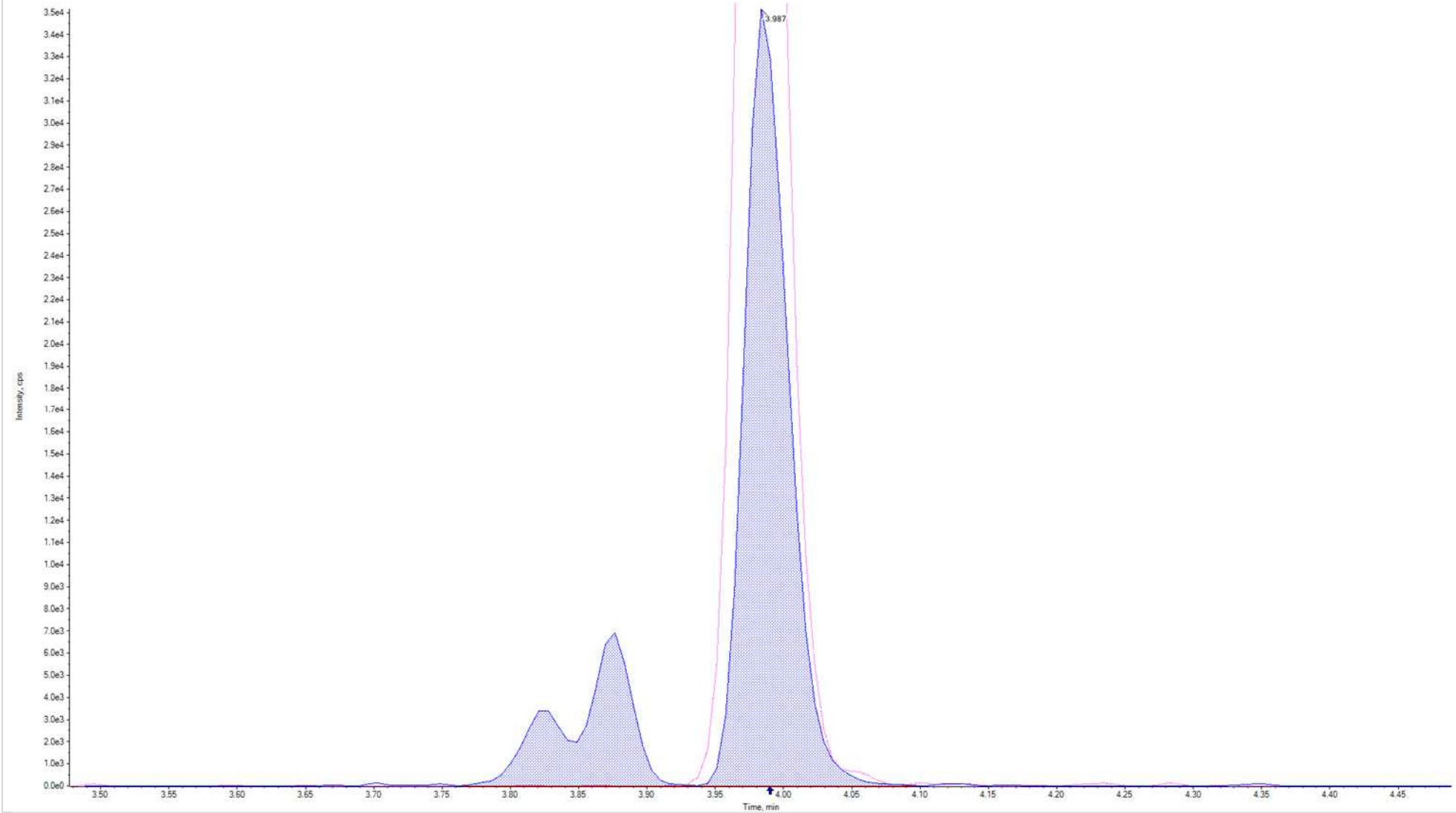
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Last Altered: 3/4/2025 6:51:07 AM
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NMeFOSAA
Sample: IA1633STD-5 S/N:709.1 Points Across peak:50



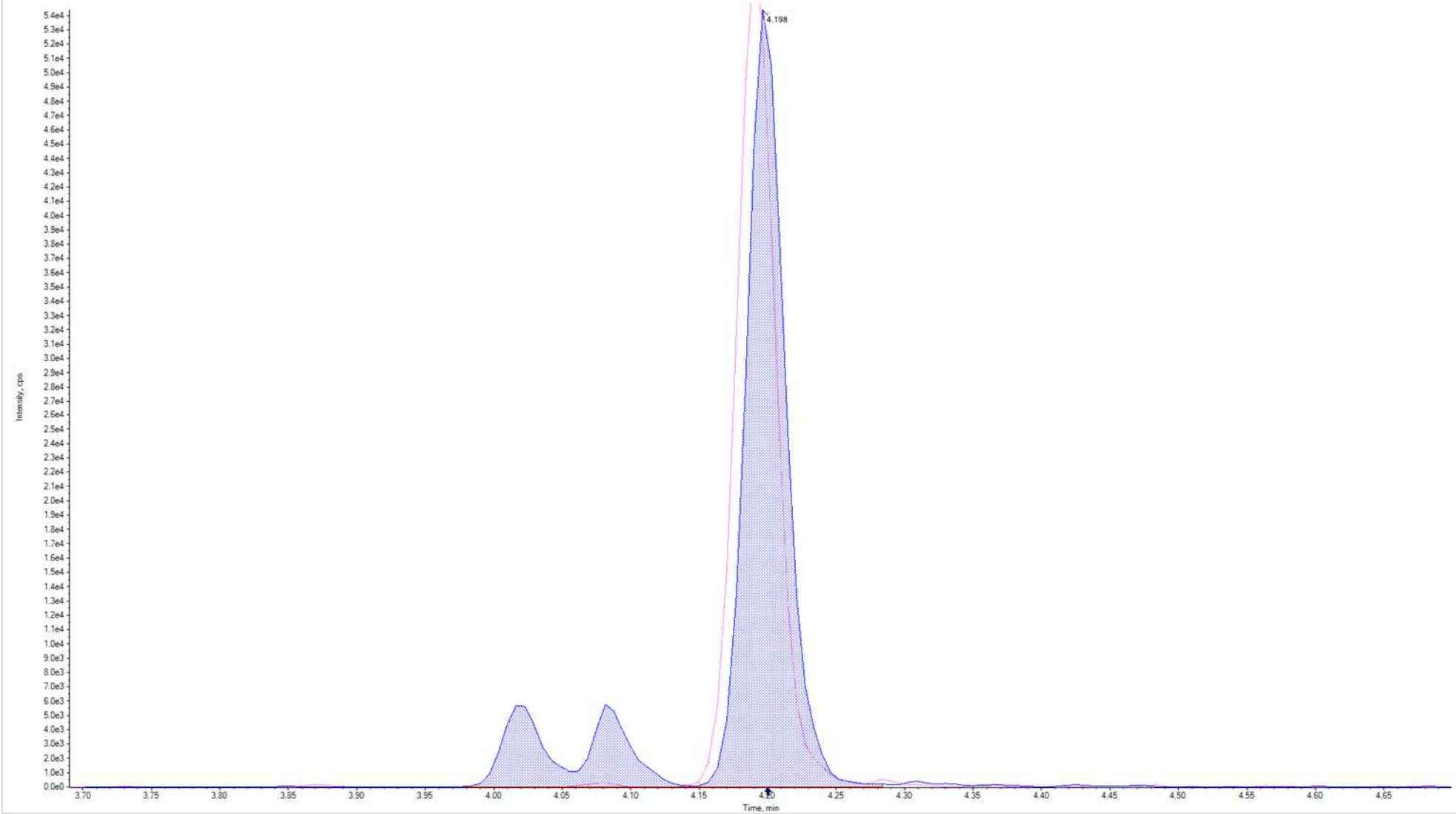
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NMeFOSAA_2
Sample: IA1633STD-5 S/N:505.5 Points Across peak:53



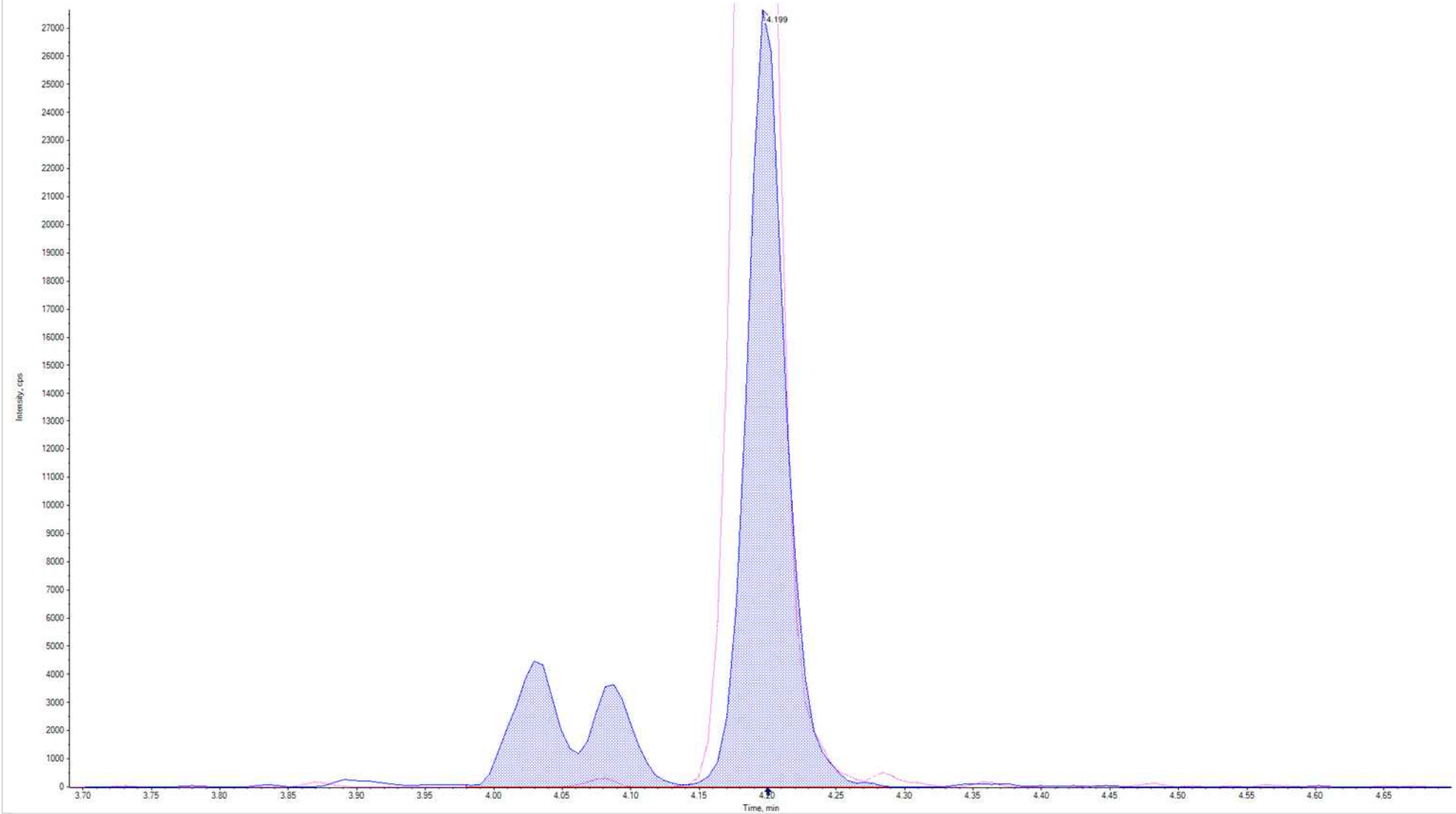
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSAA
Sample: IA1633STD-5 S/N:463.0 Points Across peak:51



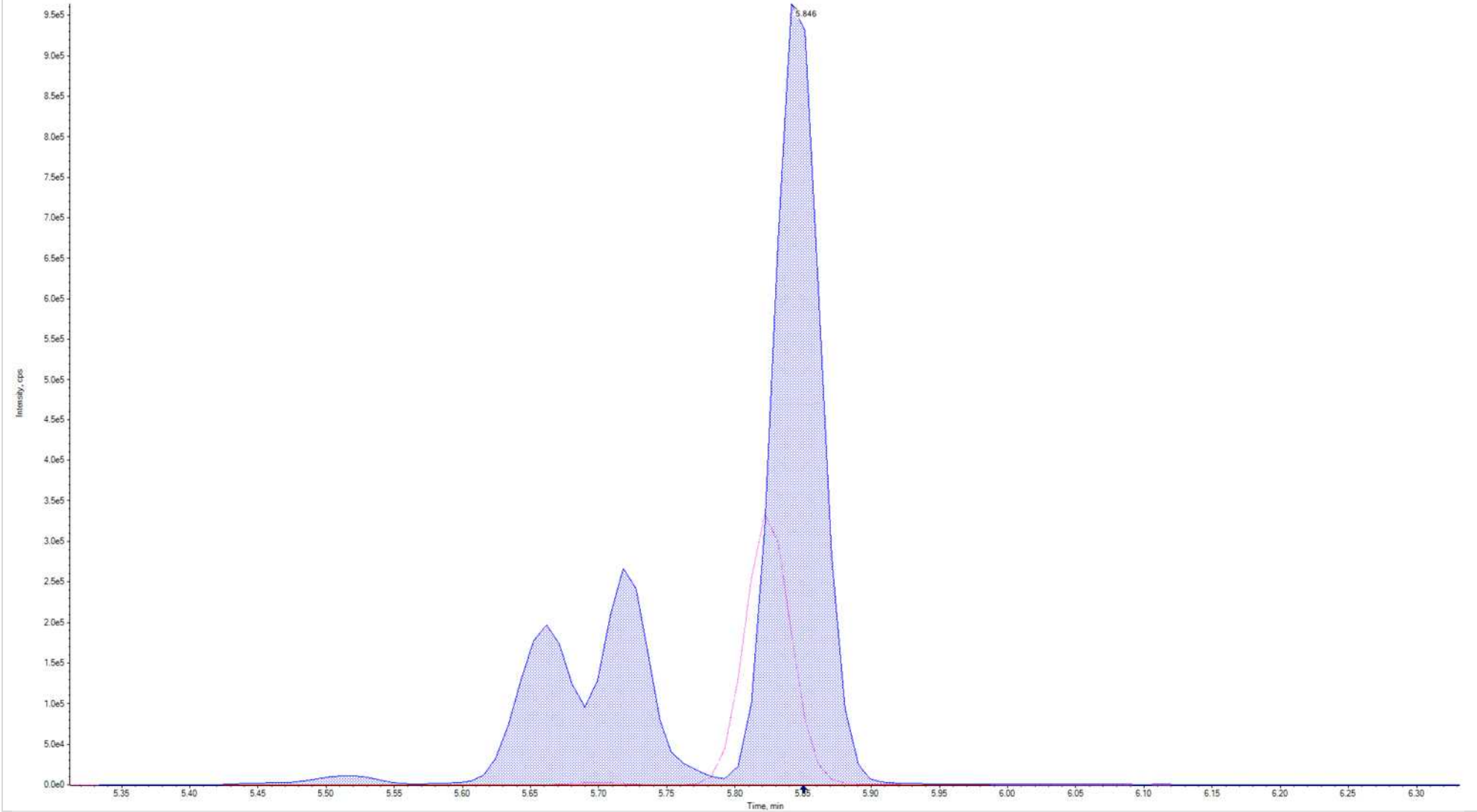
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Alpha Analytical LLC
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NEtFOSAA_2
Sample: IA1633STD-5 S/N:390.8 Points Across peak:51



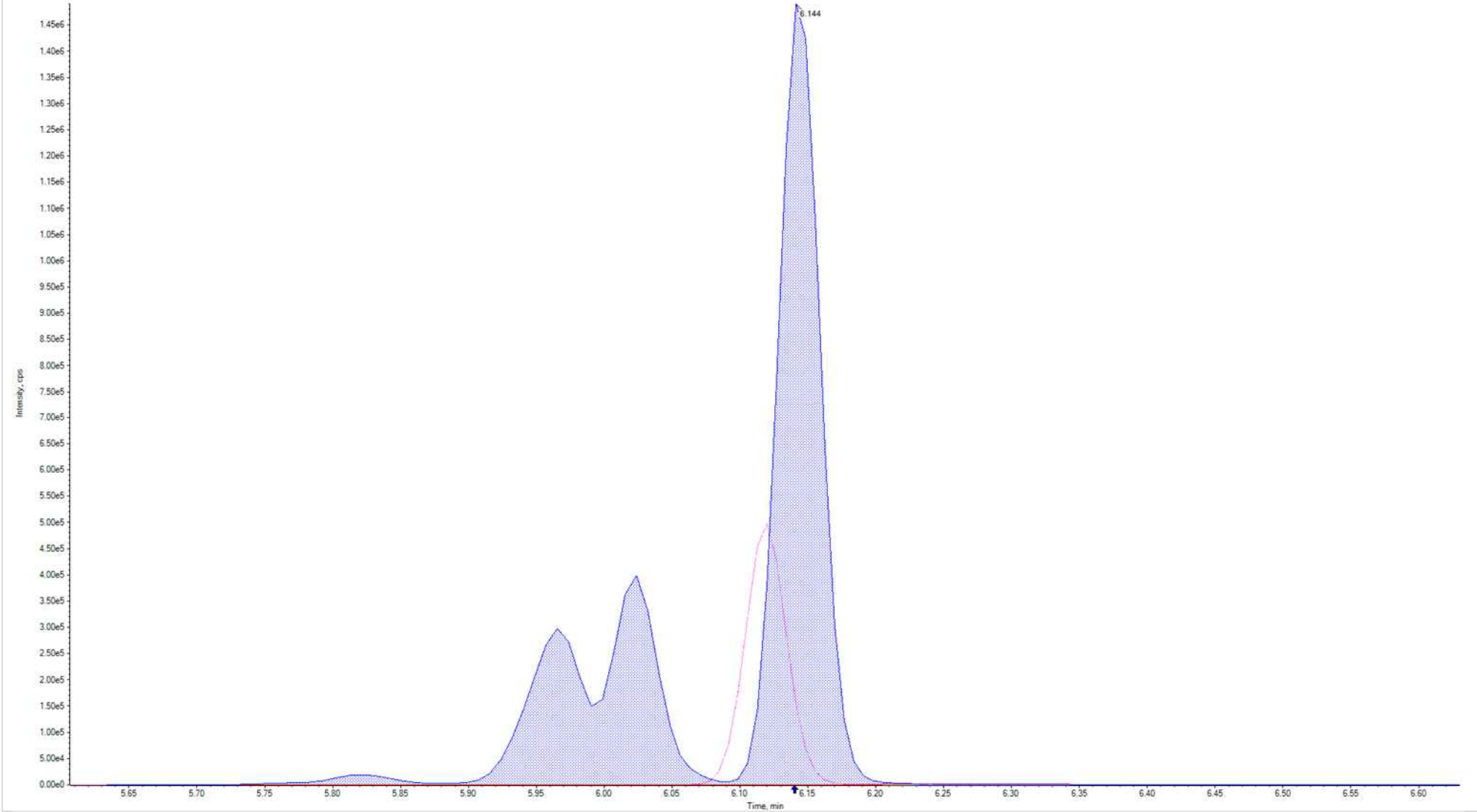
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Alpha Analytical LLC
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NMeFOSE
Sample: IA1633STD-5 S/N:246.8 Points Across peak:65



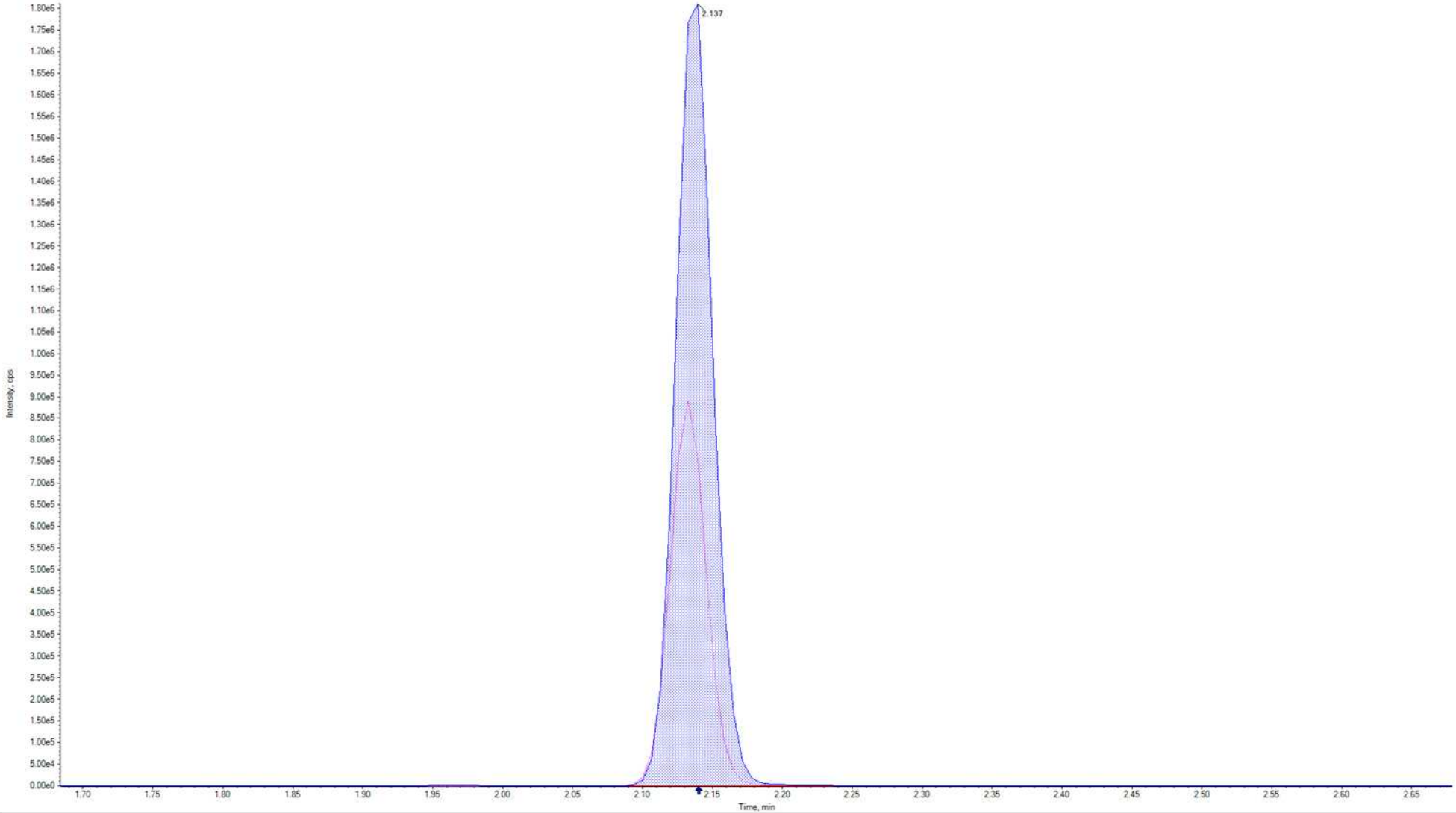
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

NEtFOSE
Sample: IA1633STD-5 S/N:450.1 Points Across peak:71



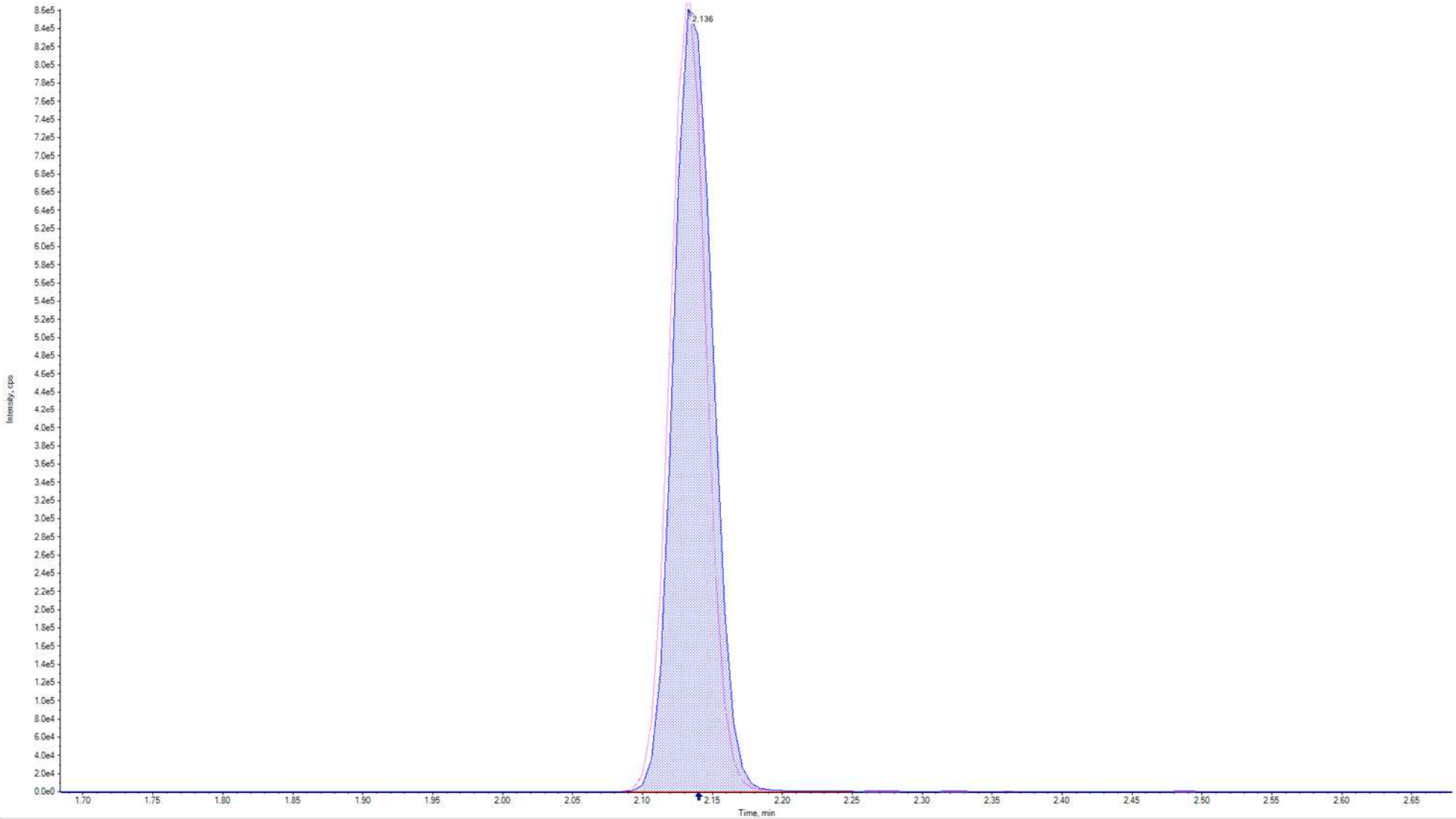
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

HFPO-DA
Sample: IA1633STD-5 S/N:4673.7 Points Across peak:29



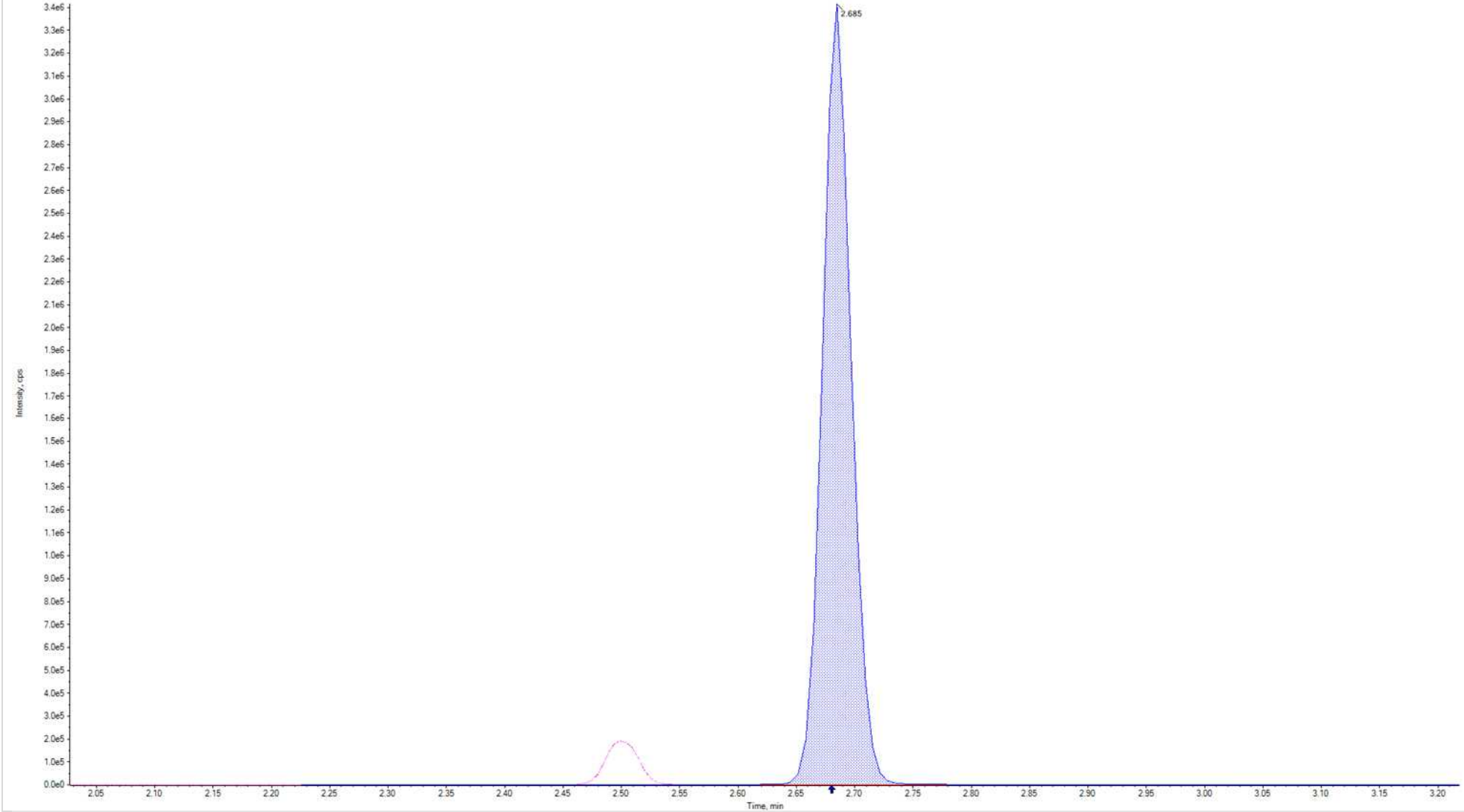
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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HFPO-DA_2
Sample: IA1633STD-5 S/N:19433.7 Points Across peak:31



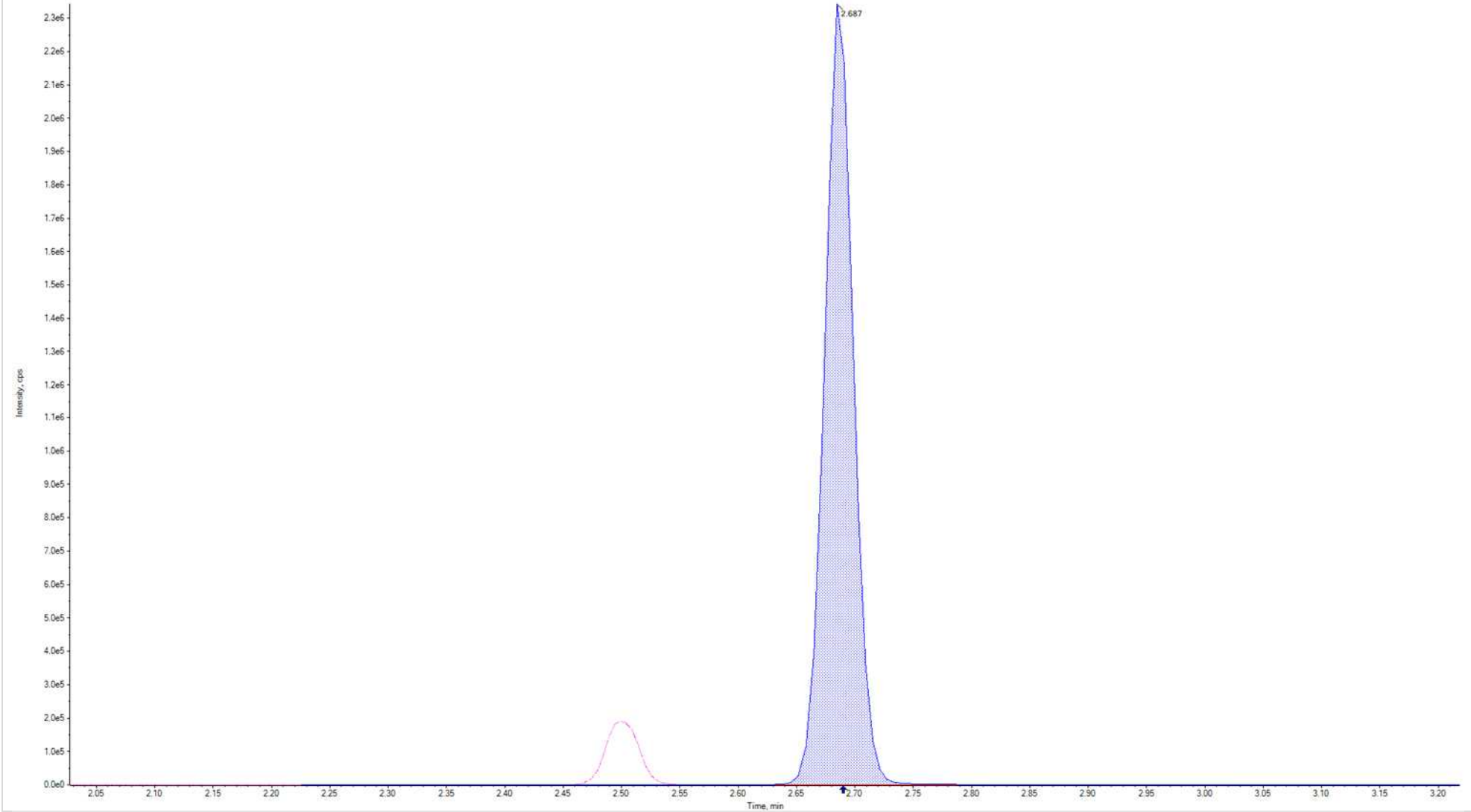
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

ADONA
Sample: IA1633STD-5 S/N:68491.7 Points Across peak:38



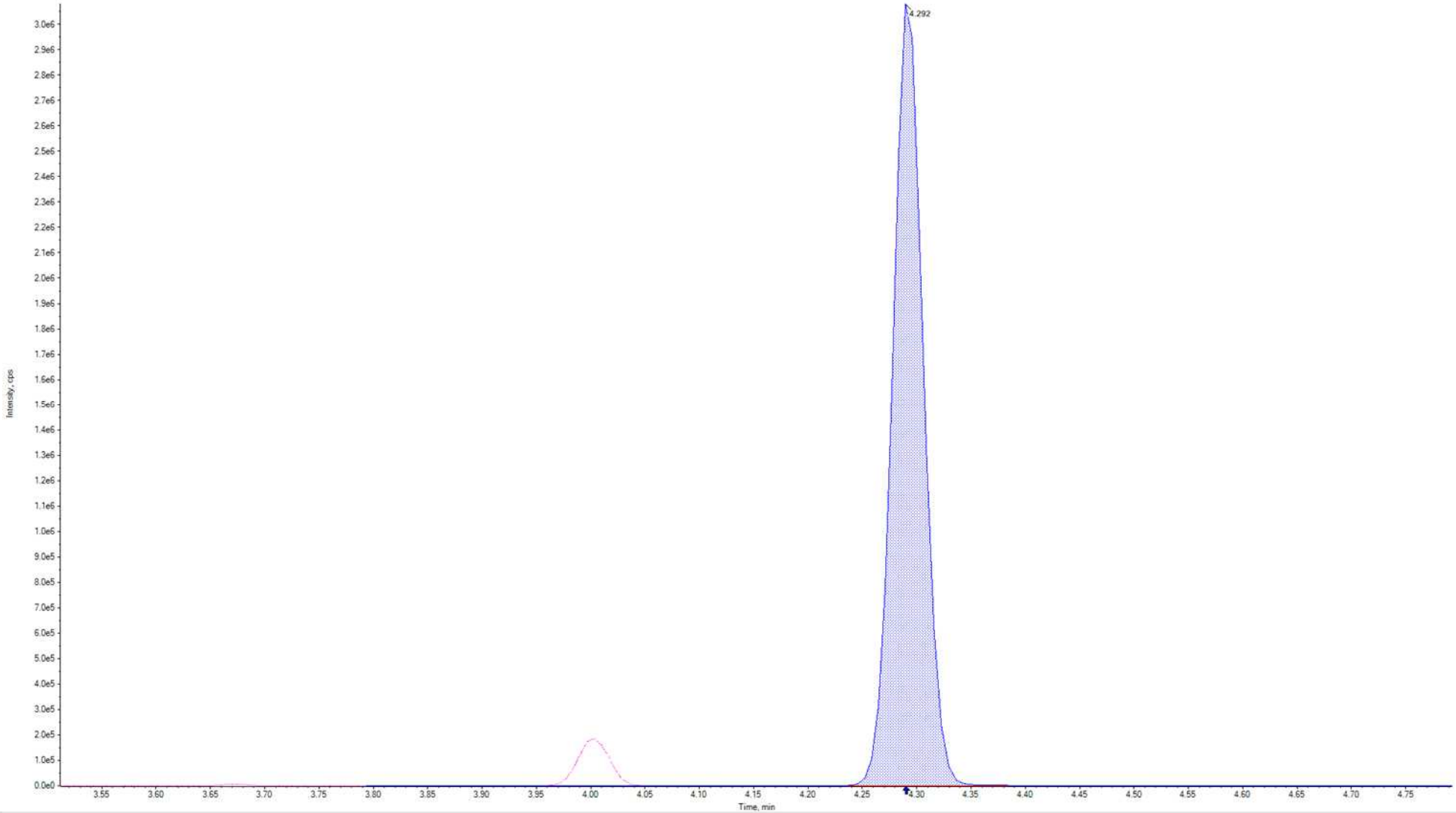
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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ADONA_2
Sample: IA1633STD-5 S/N:46981.1 Points Across peak:40



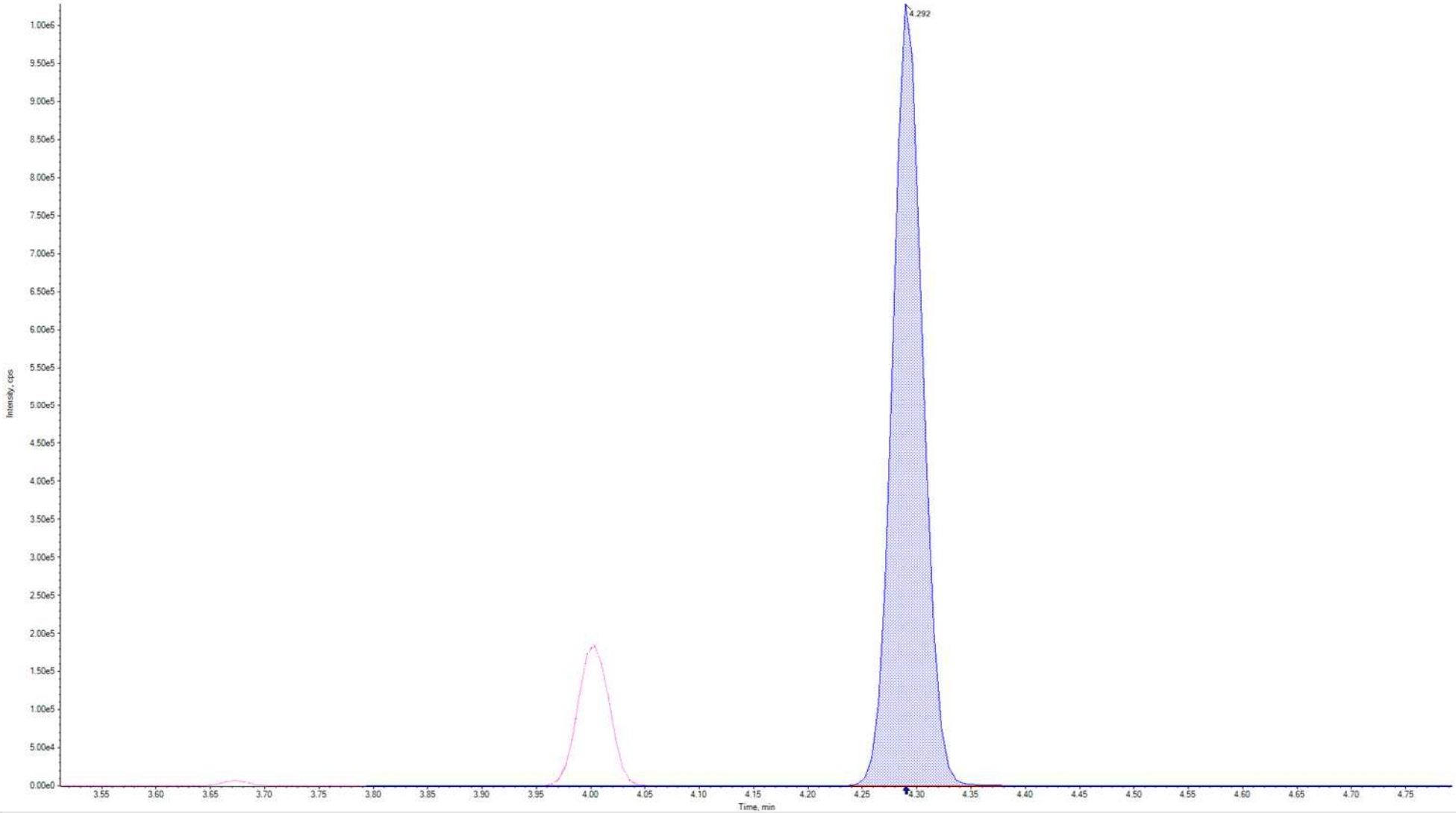
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS
Sample: IA1633STD-5 S/N:10343.2 Points Across peak:38



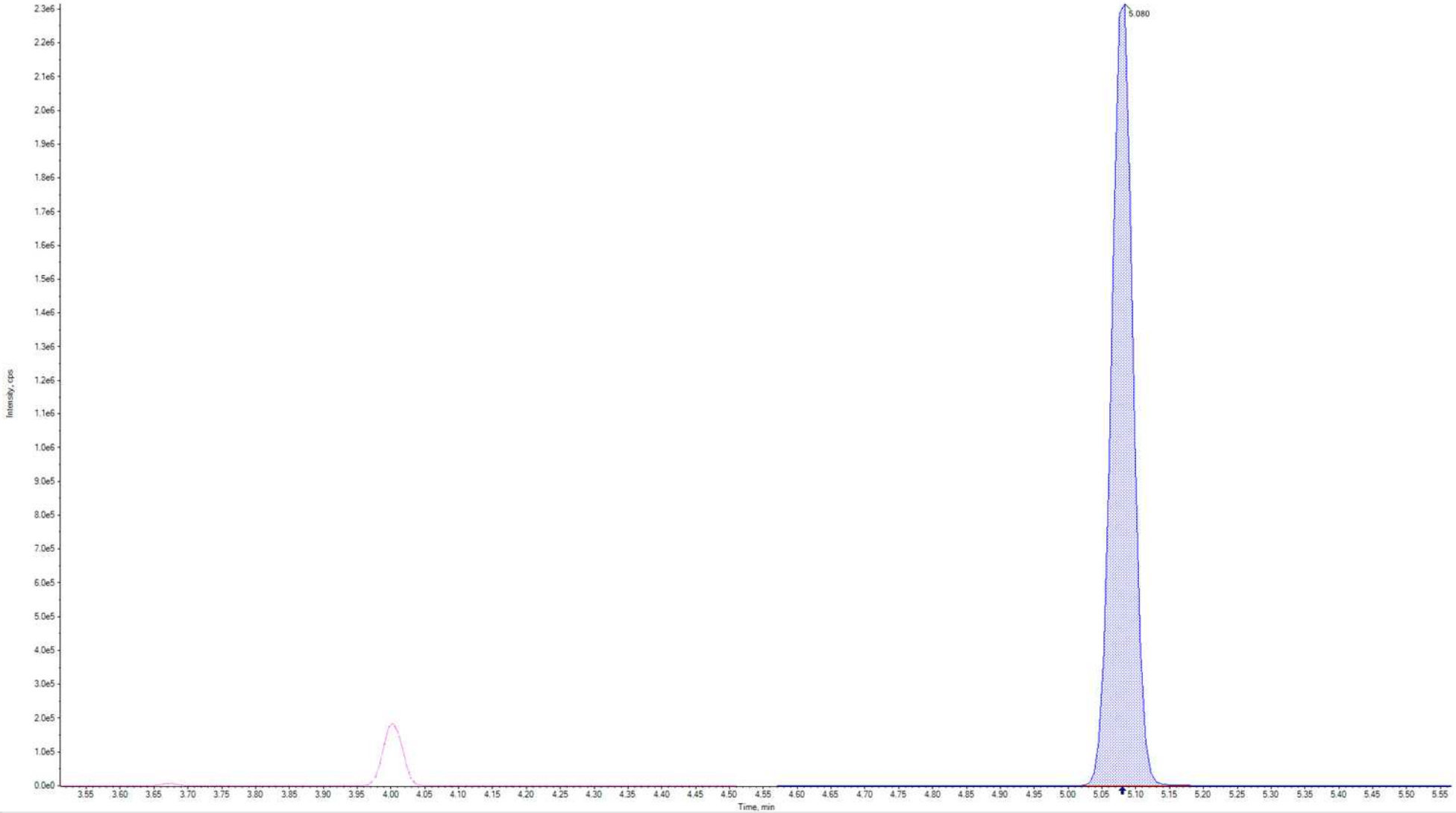
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS_2
Sample: IA1633STD-5 S/N:9206.7 Points Across peak:34



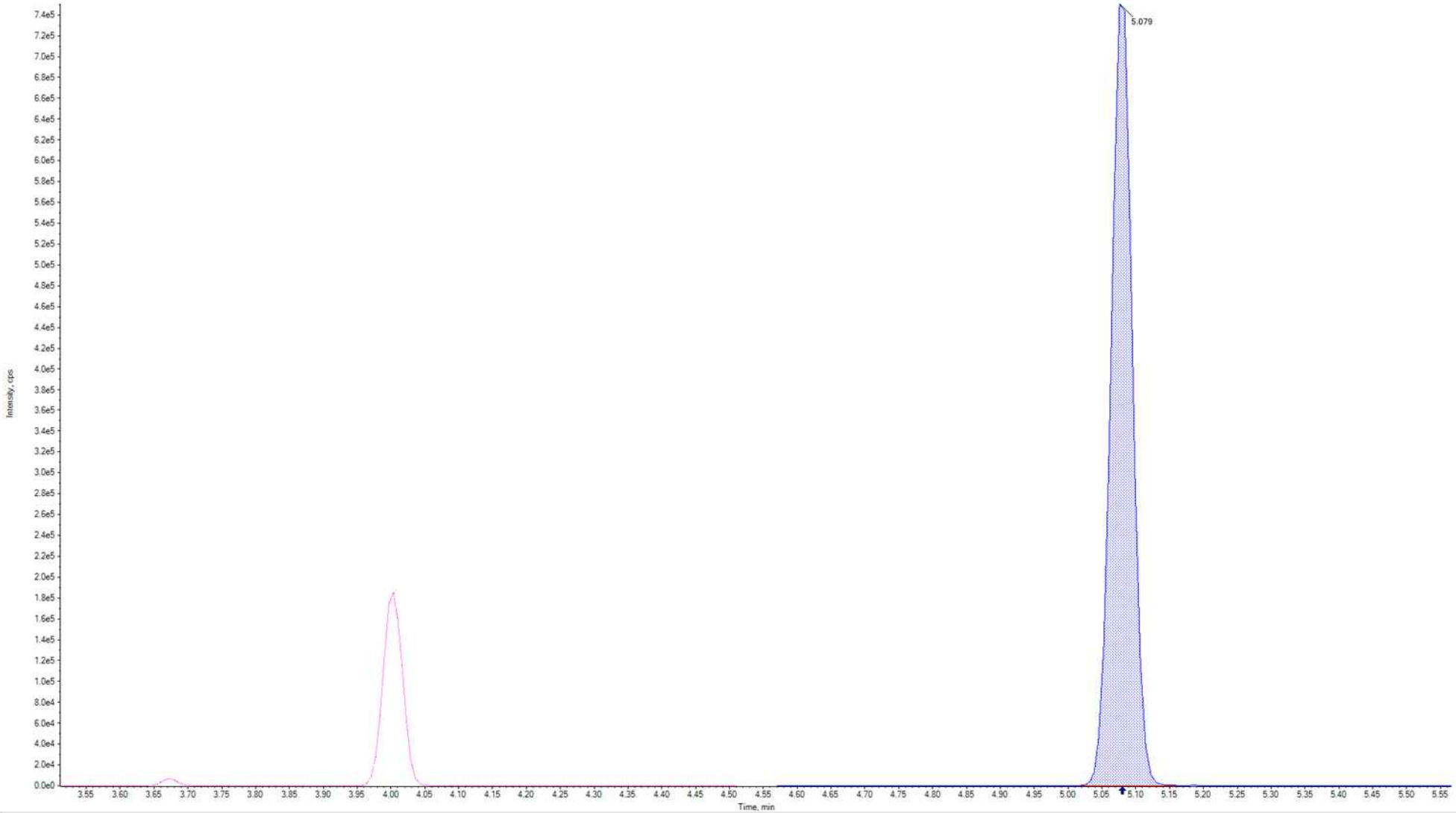
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

11Cl-PF3OUdS
Sample: IA1633STD-5 S/N:9496.6 Points Across peak:32



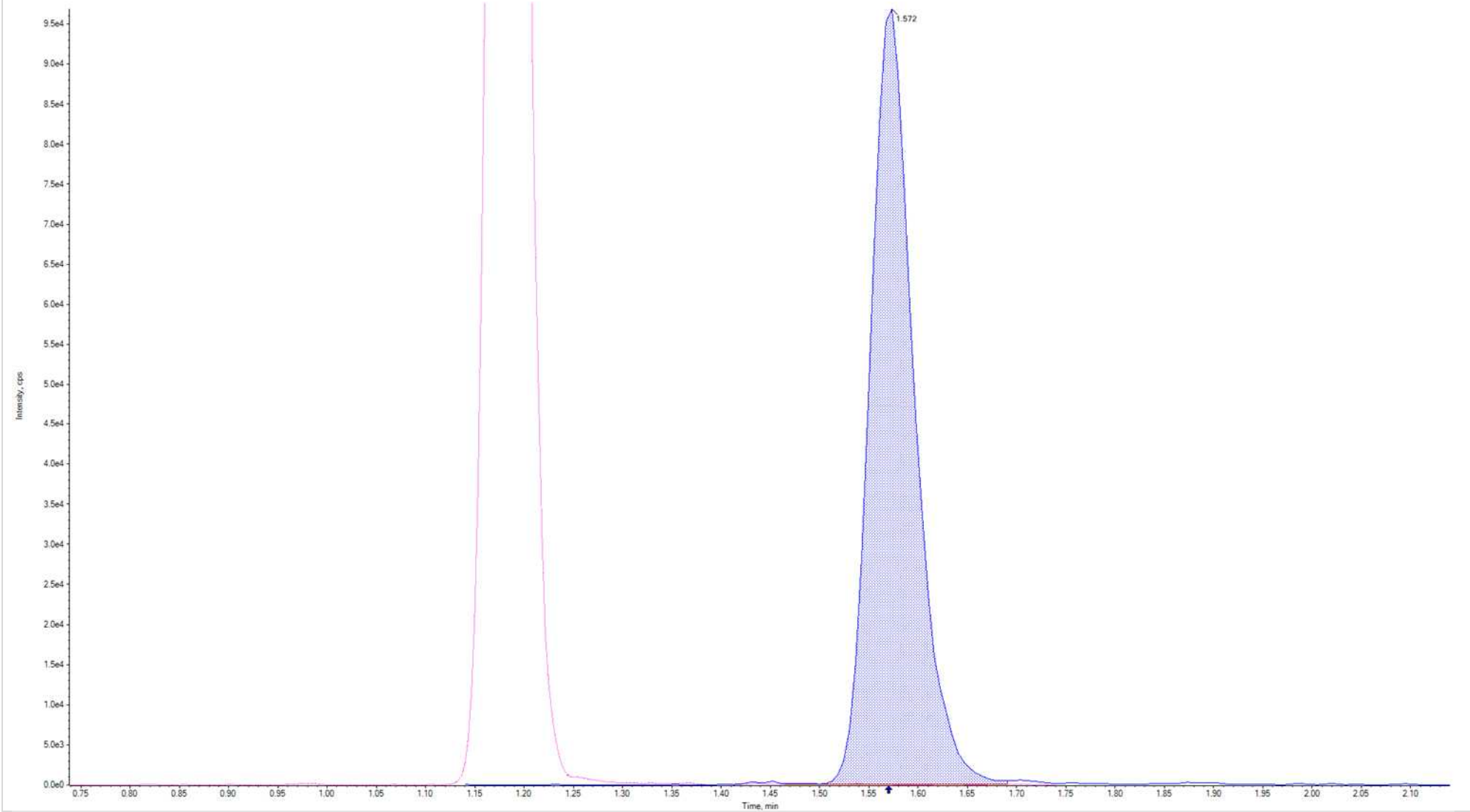
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

11Cl-PF3OUdS_2
Sample: IA1633STD-5 S/N:9686.8 Points Across peak:27



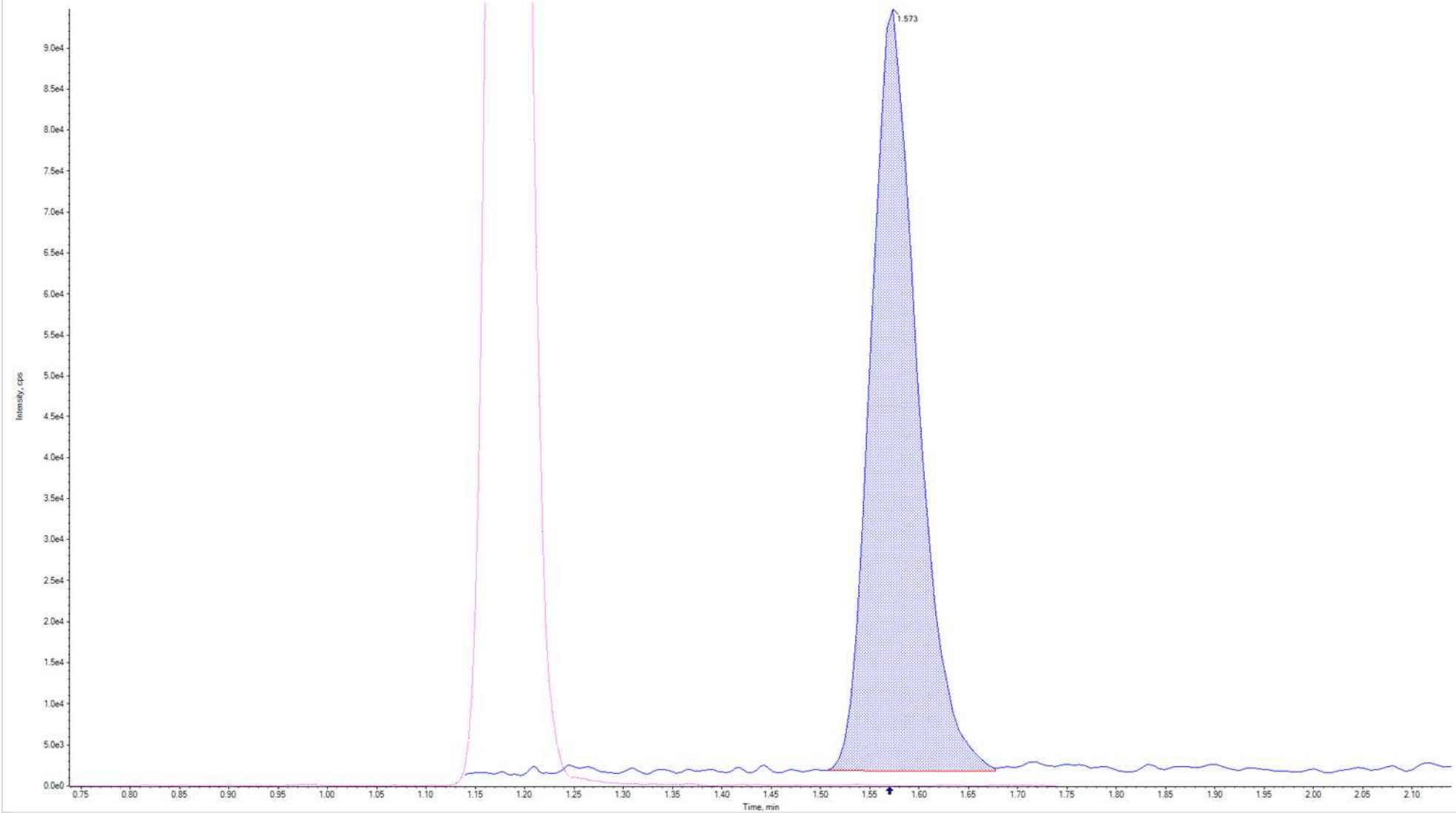
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

3:3FTCA
Sample: IA1633STD-5 S/N:1846.5 Points Across peak:38



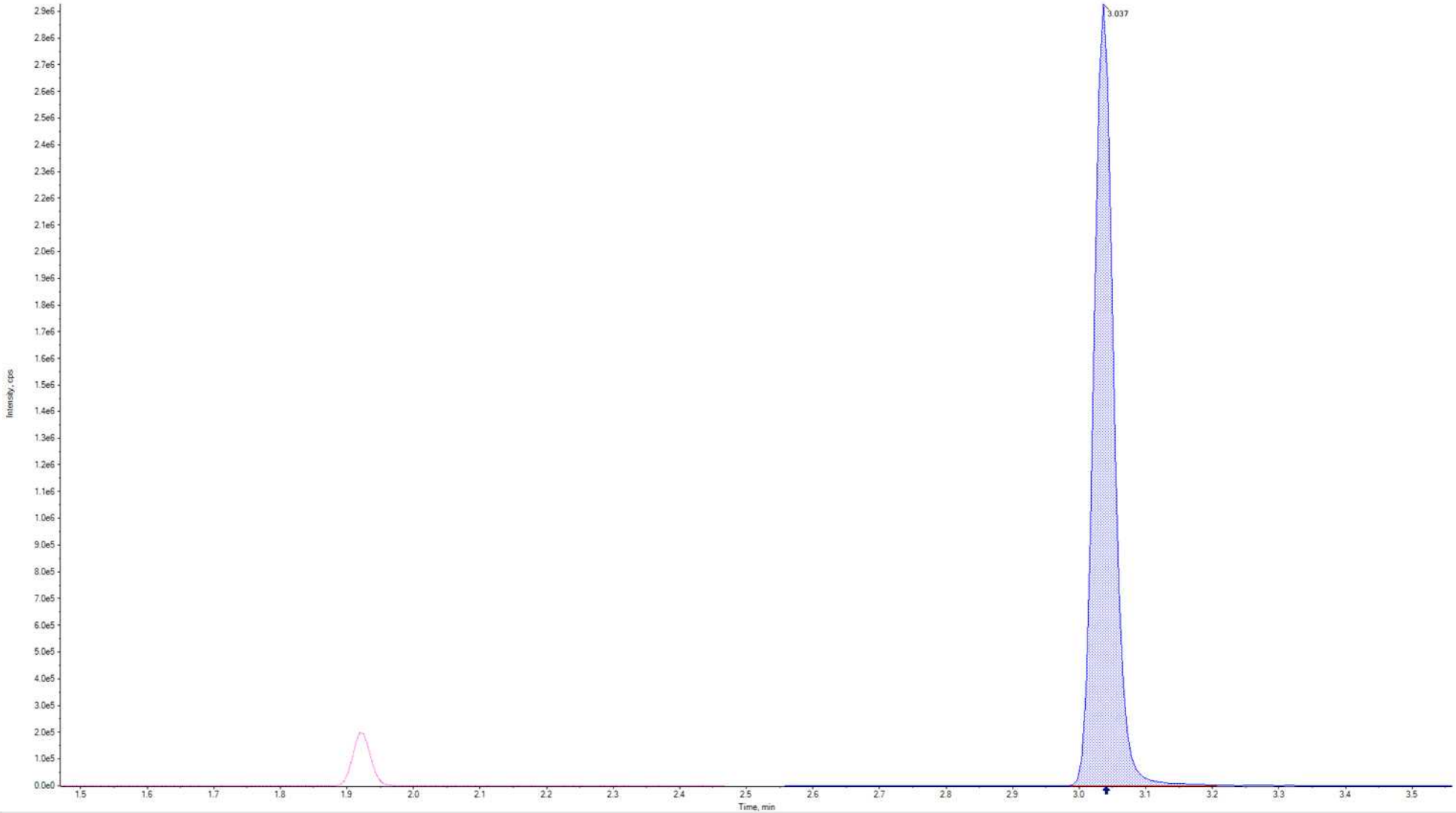
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

3:3FTCA_2
Sample: IA1633STD-5 S/N:492.9 Points Across peak:29



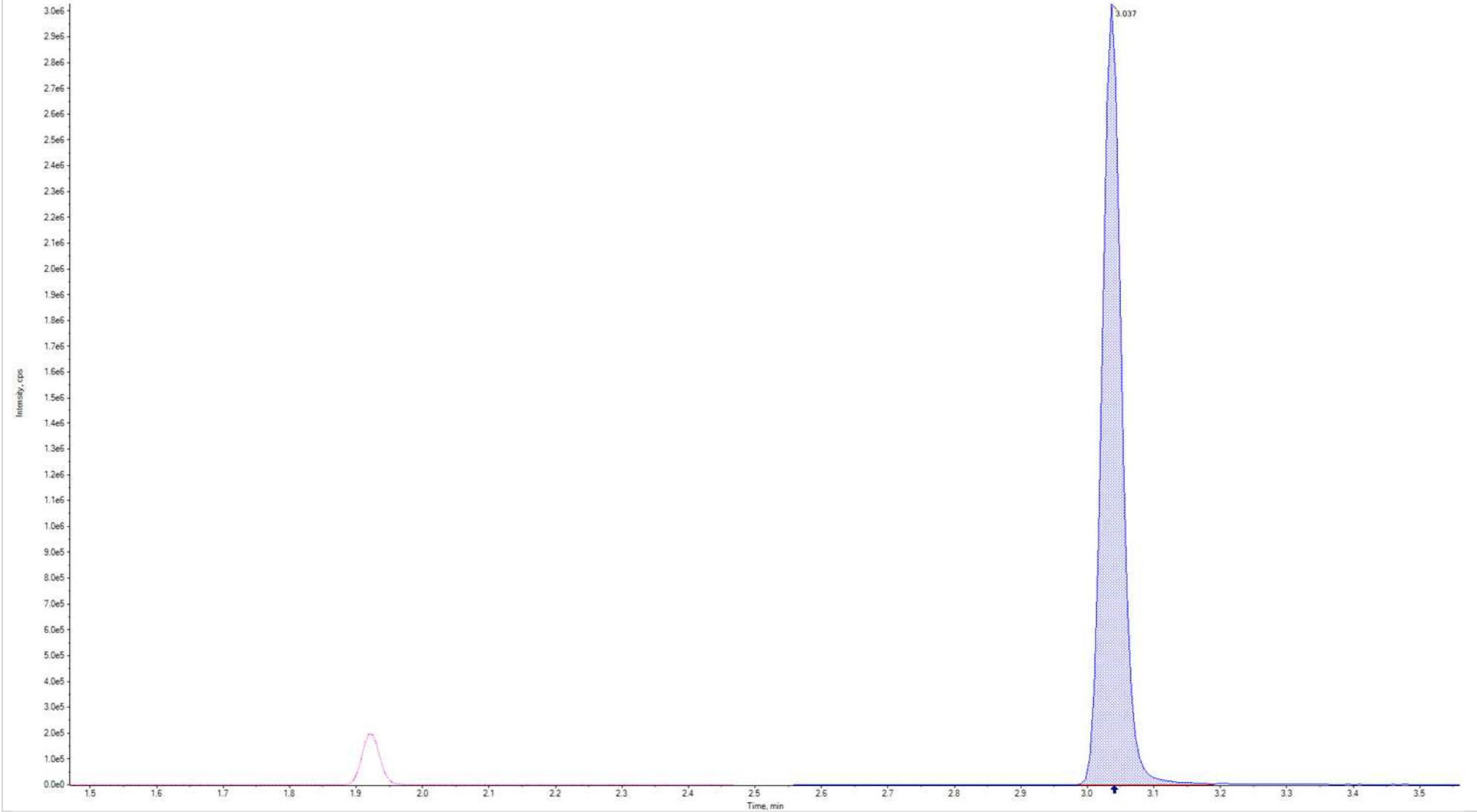
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

5:3FTCA
Sample: IA1633STD-5 S/N:17754.5 Points Across peak:42



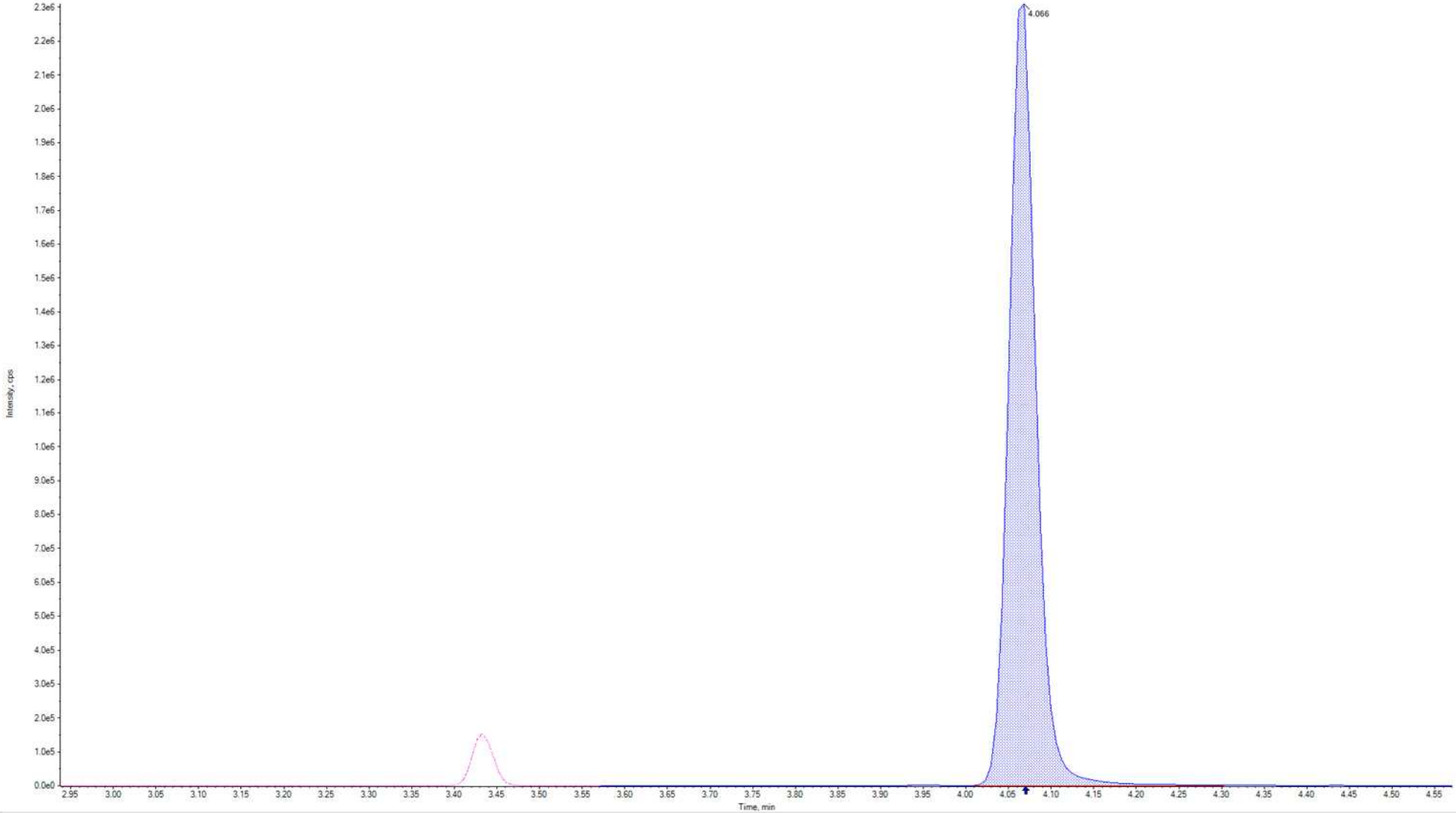
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

5:3FTCA_2
Sample: IA1633STD-5 S/N:6862.0 Points Across peak:36

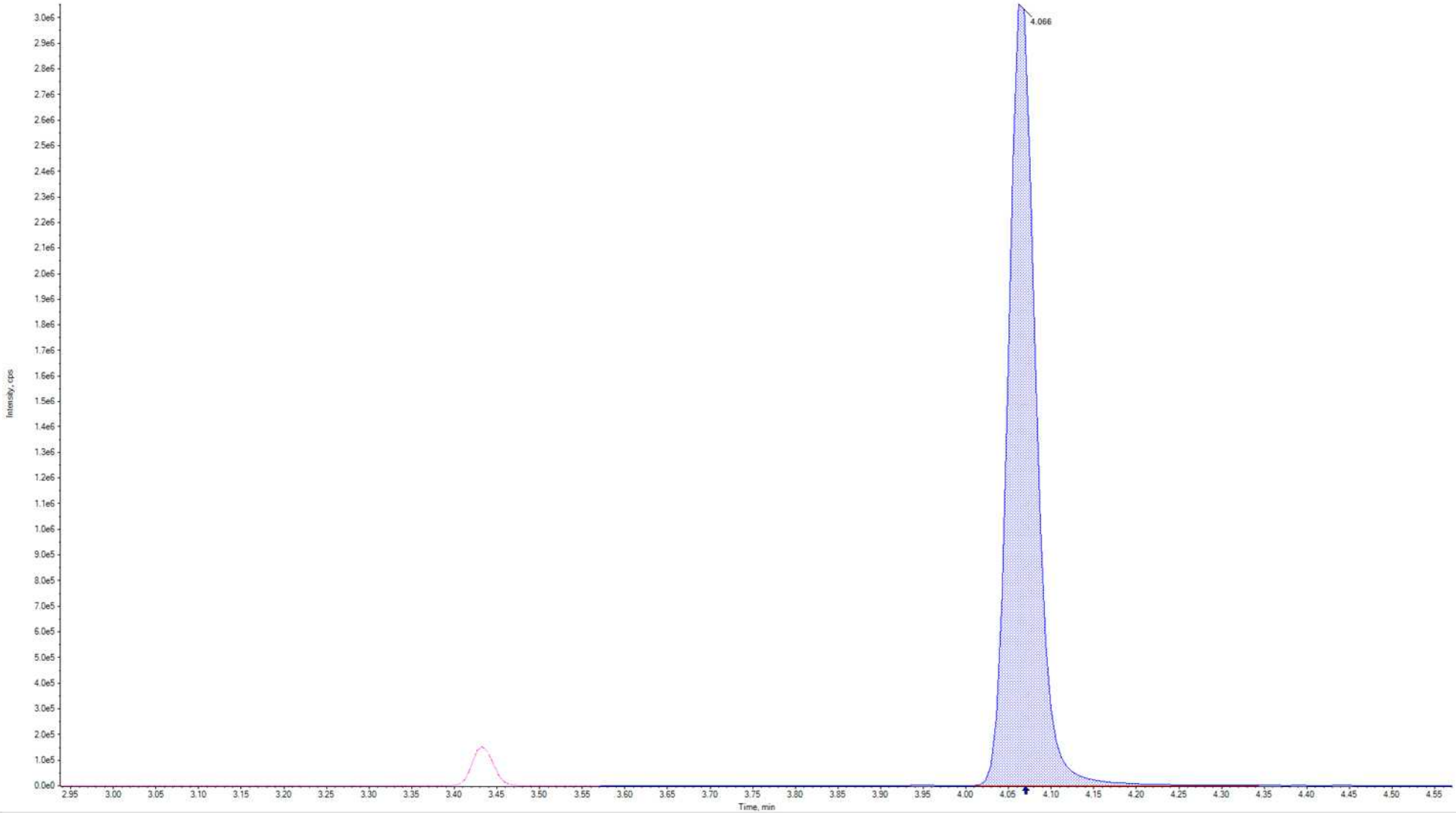


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

7:3FTCA
Sample: IA1633STD-5 S/N:25113.7 Points Across peak:49

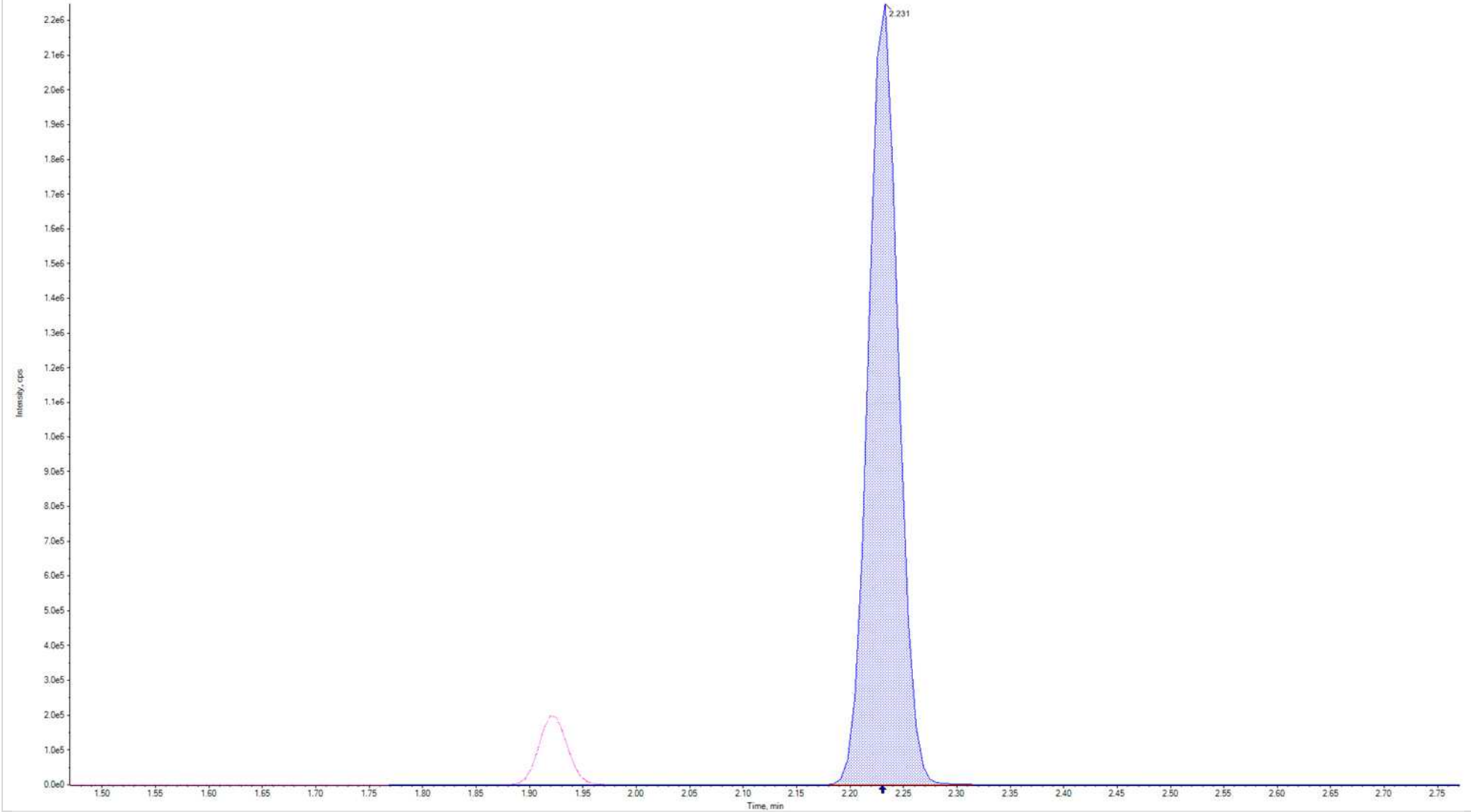


7:3FTCA_2
Sample: IA1633STD-5 S/N:44124.7 Points Across peak:55



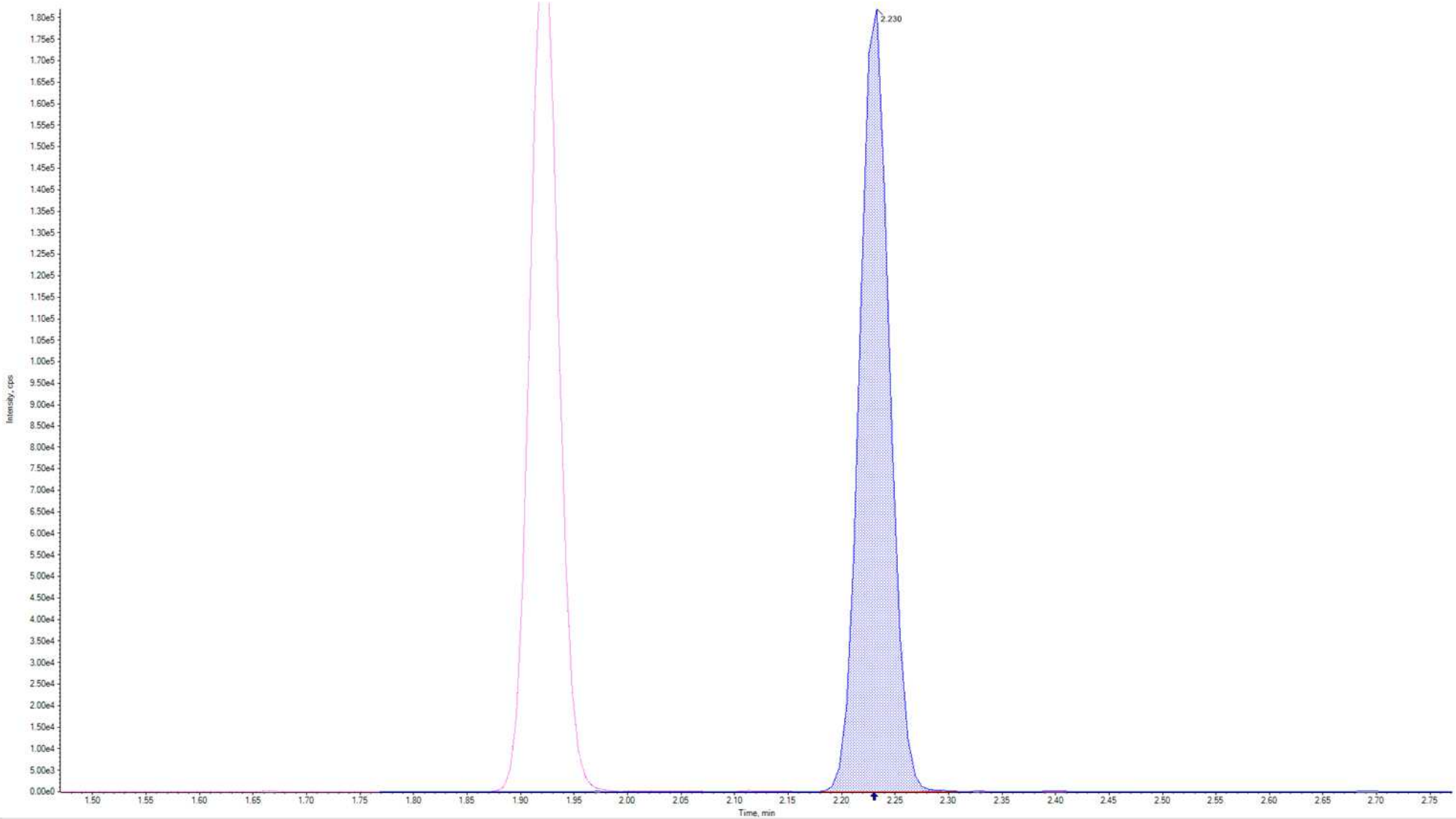
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFEESA
Sample: IA1633STD-5 S/N:50698.2 Points Across peak:26



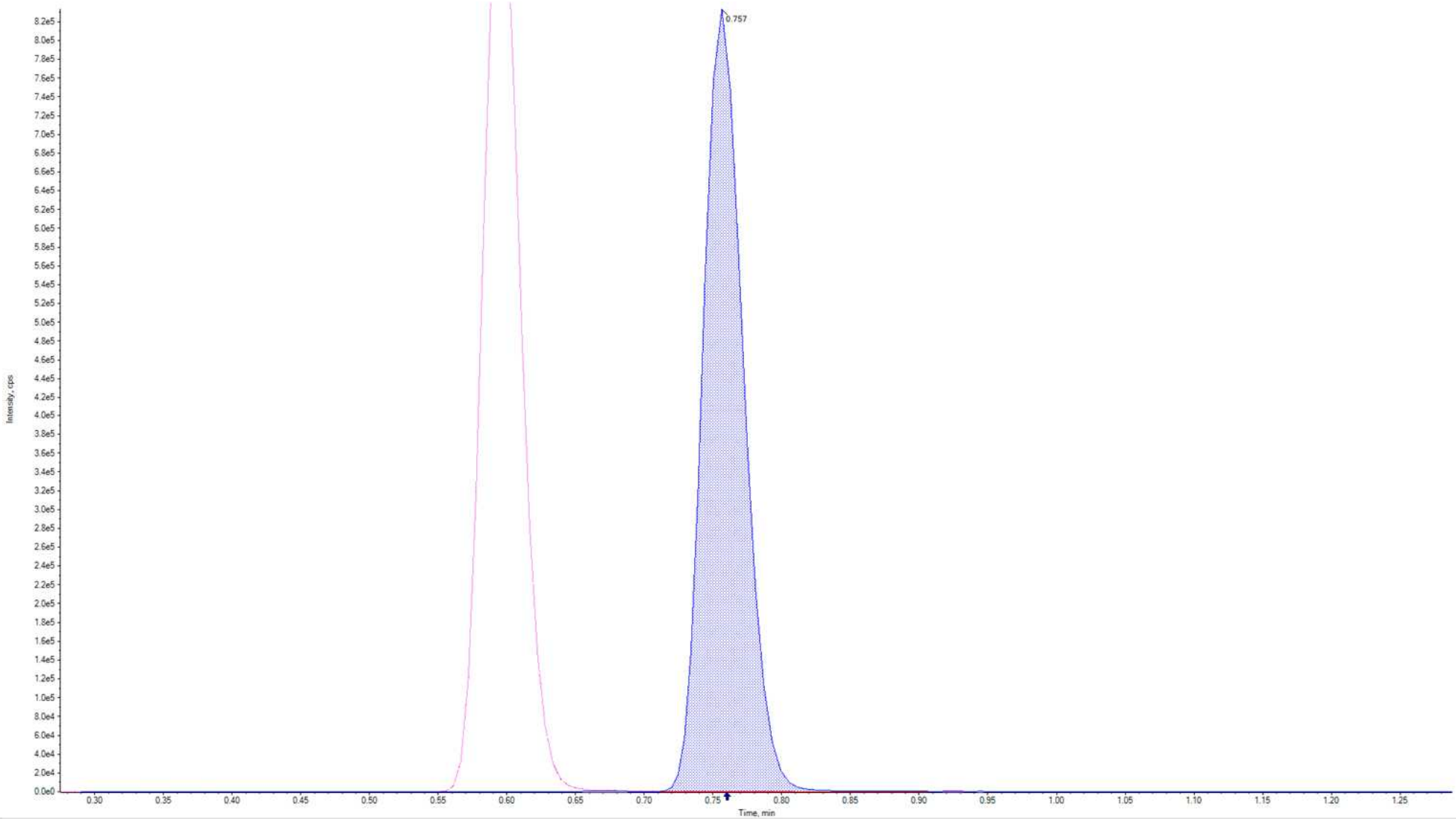
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
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PFEESA_2
Sample: IA1633STD-5 S/N:3617.6 Points Across peak:25



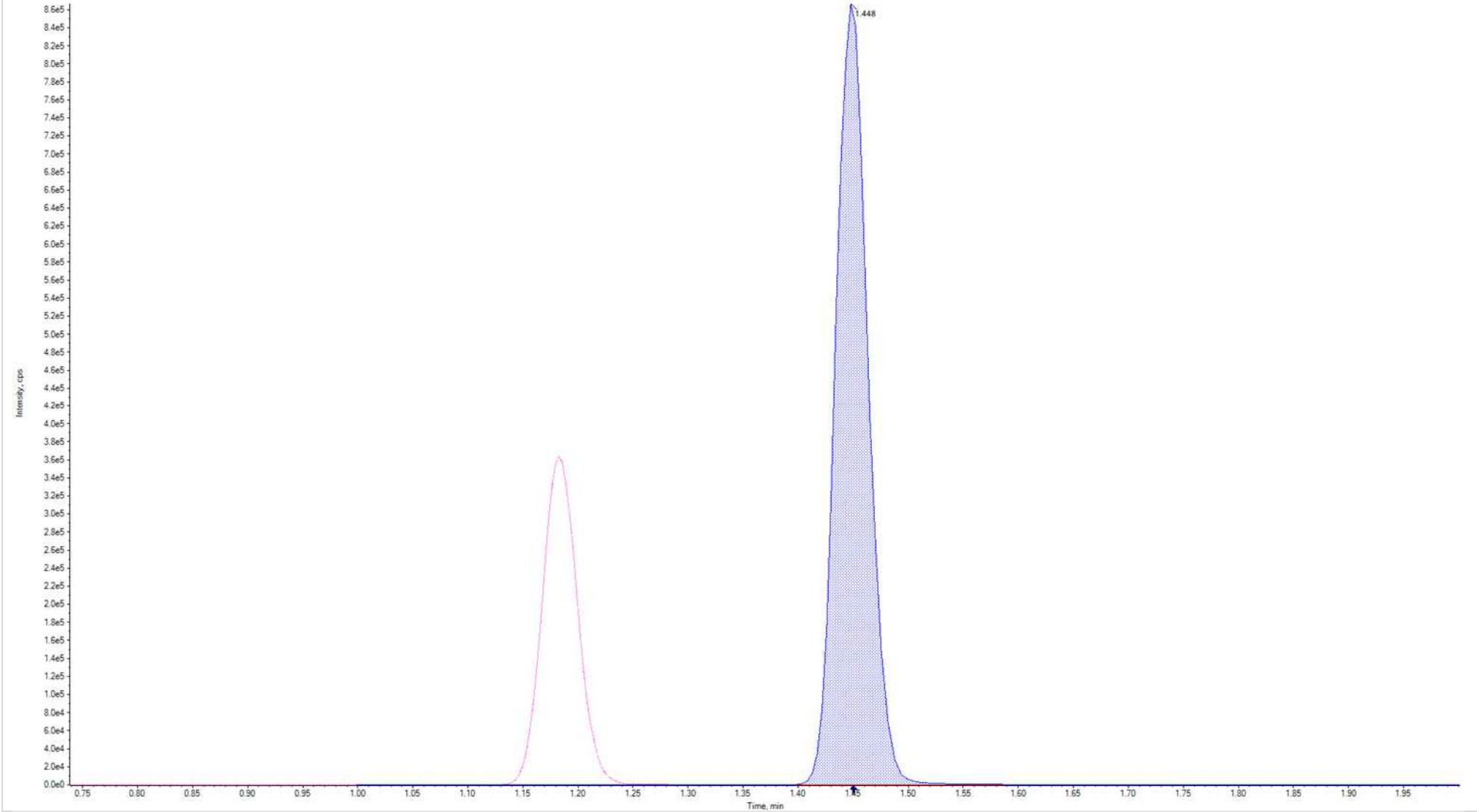
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFMPA
Sample: IA1633STD-5 S/N:11270.0 Points Across peak:38



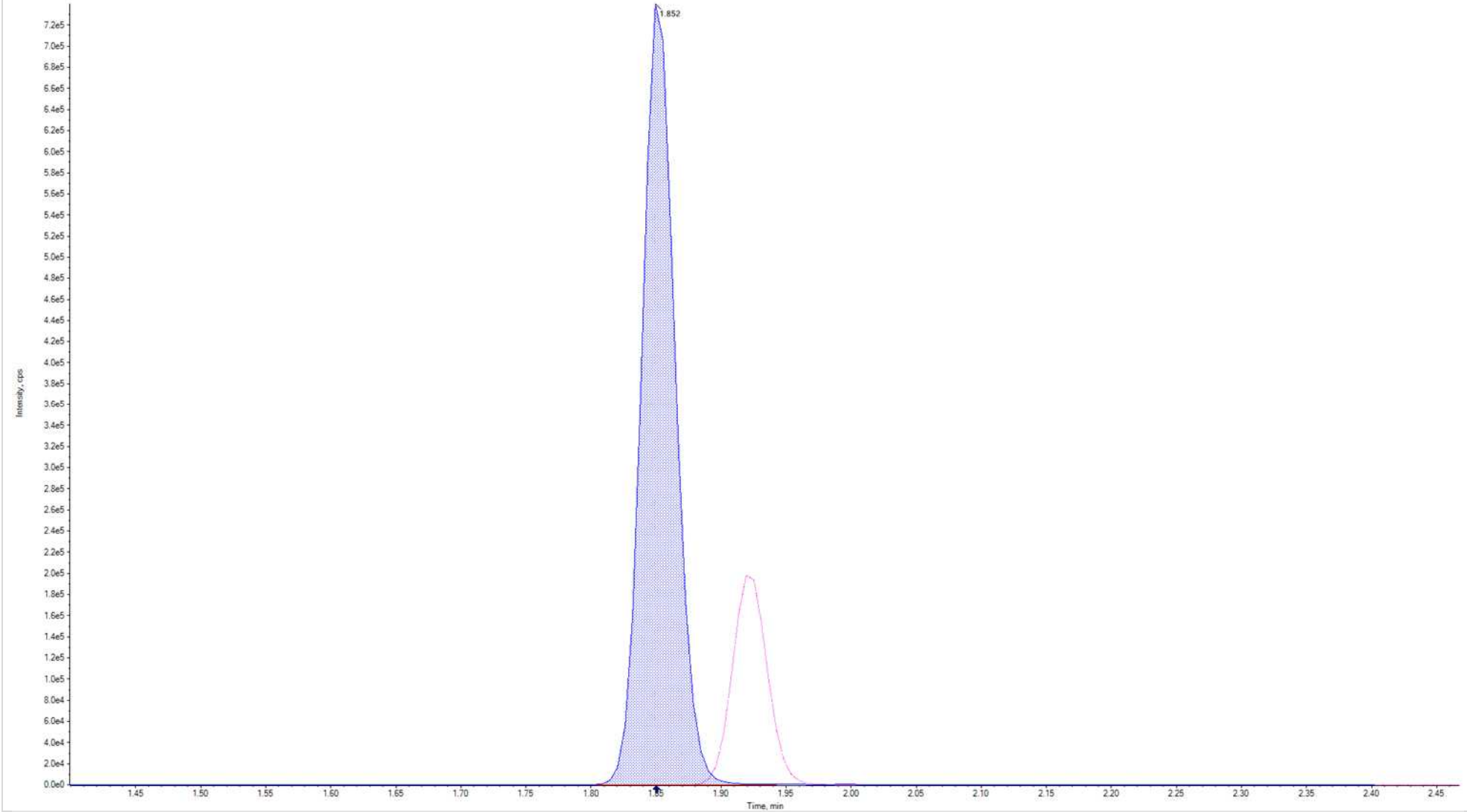
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_5
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFMBA
Sample: IA1633STD-5 S/N:24782.7 Points Across peak:53



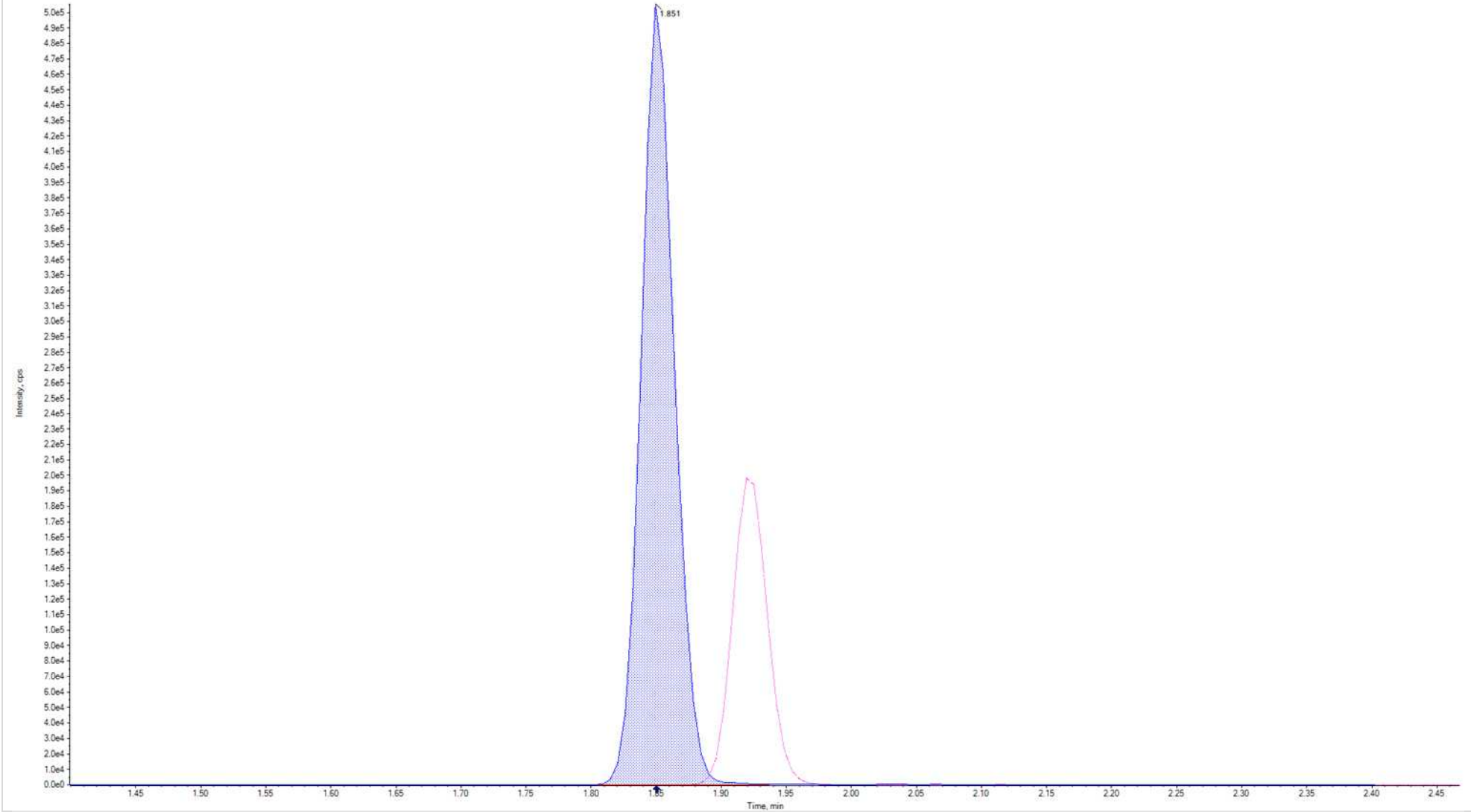
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NFDHA
Sample: IA1633STD-5 S/N:6080.0 Points Across peak:27



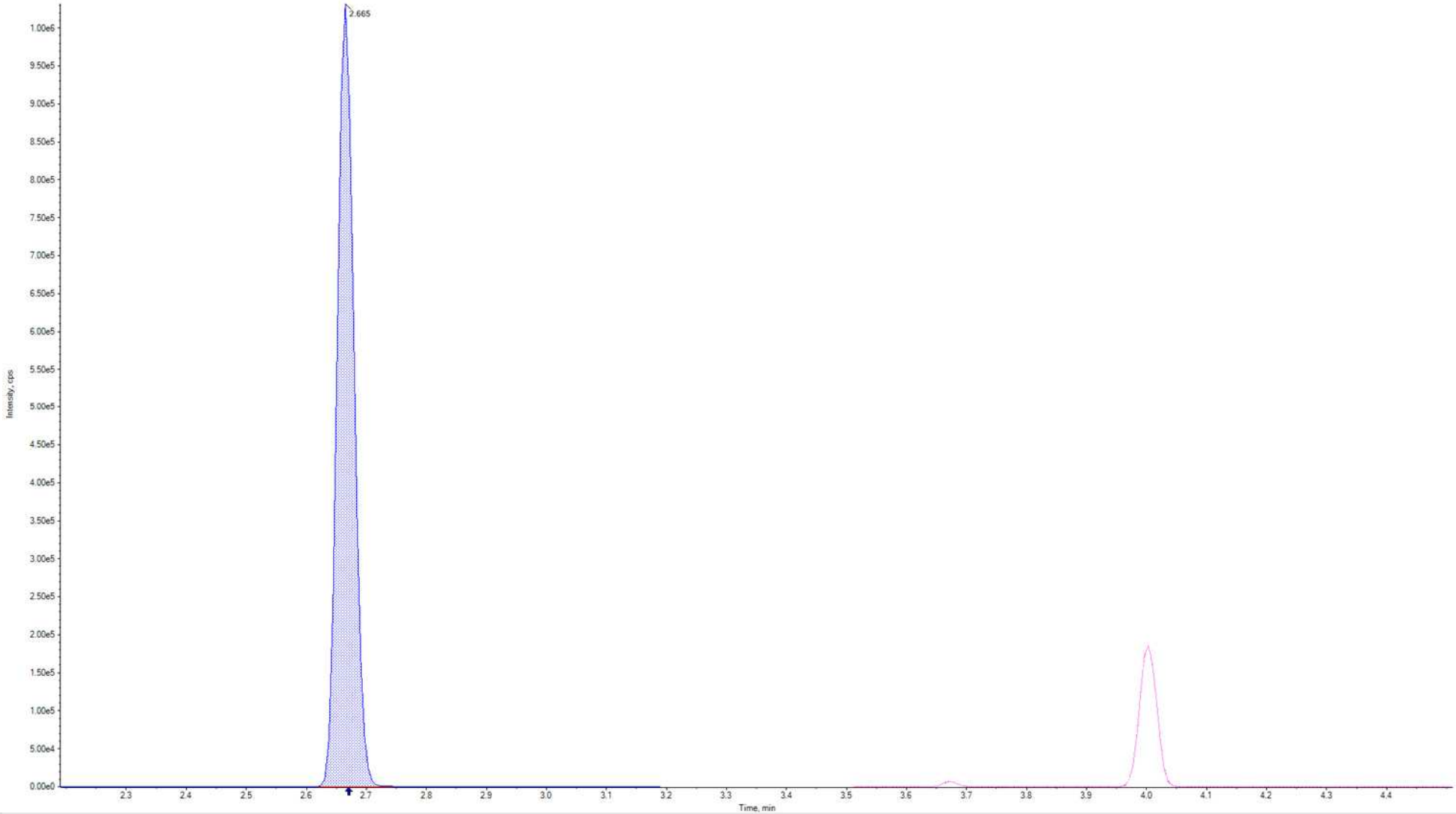
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NFDHA_2
Sample: IA1633STD-5 S/N:13939.2 Points Across peak:25



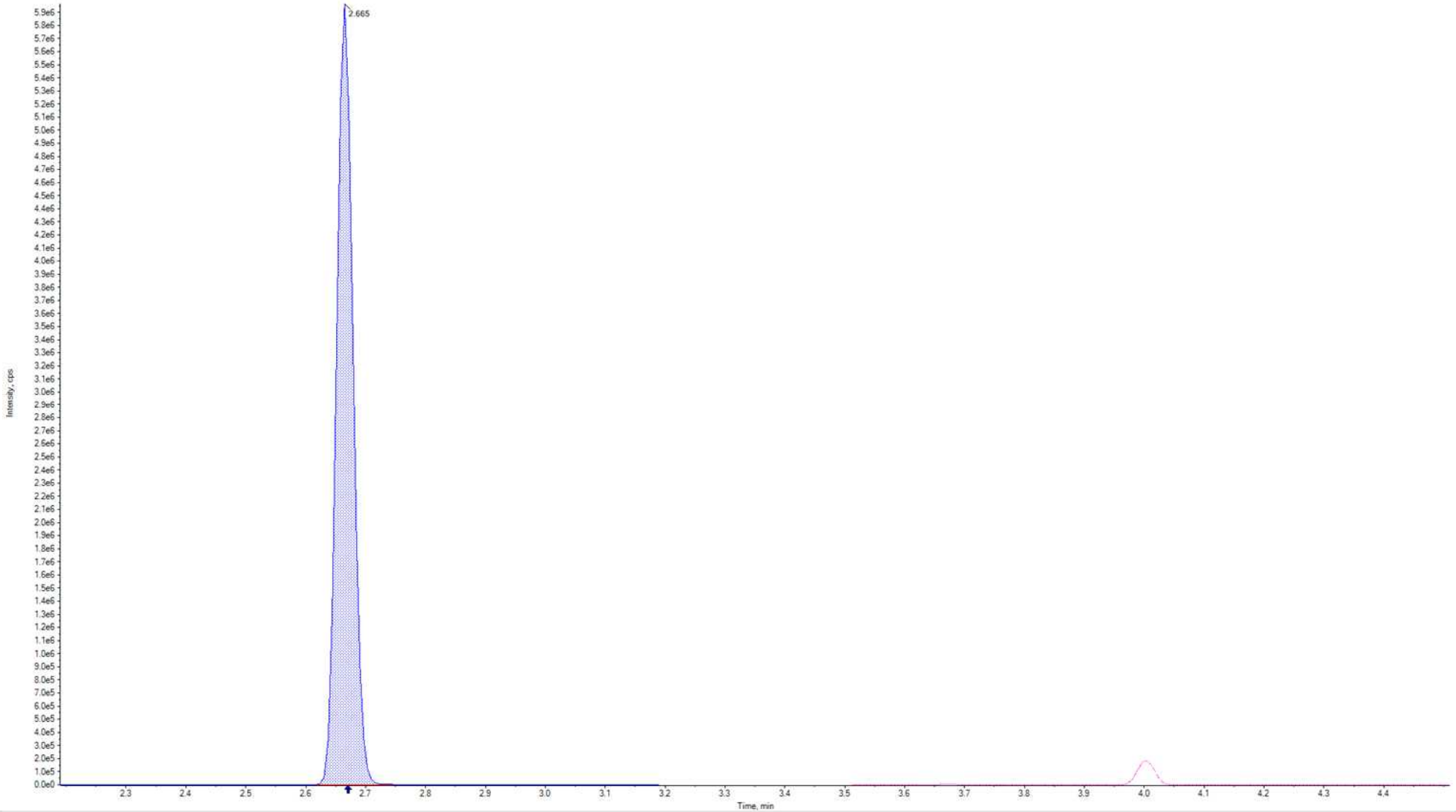
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Alpha Analytical LLC
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TDCA
Sample: IA1633STD-5 S/N:11730.4 Points Across peak:26



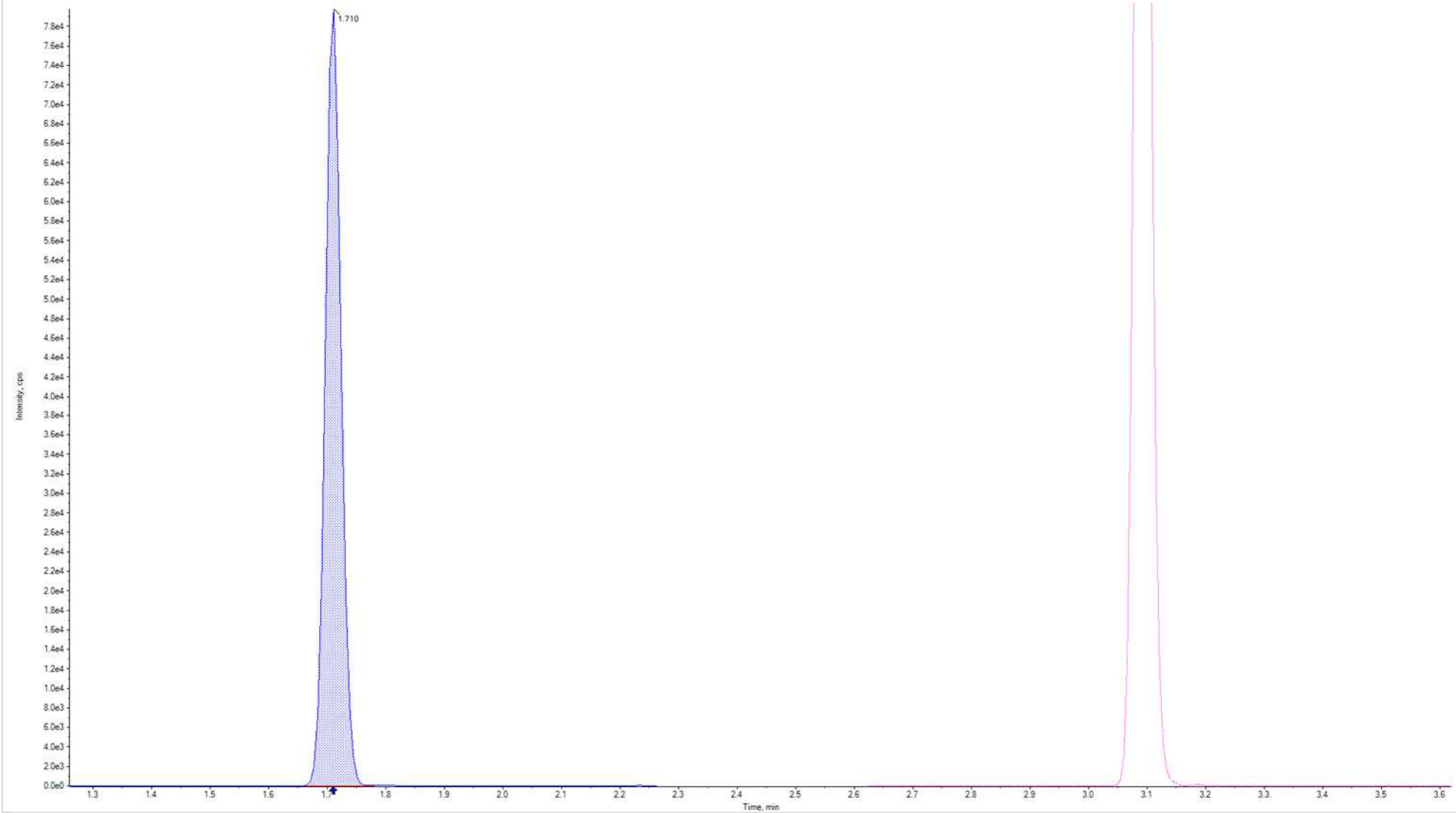
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

TDCA_2
Sample: IA1633STD-5 S/N:119607.9 Points Across peak:32



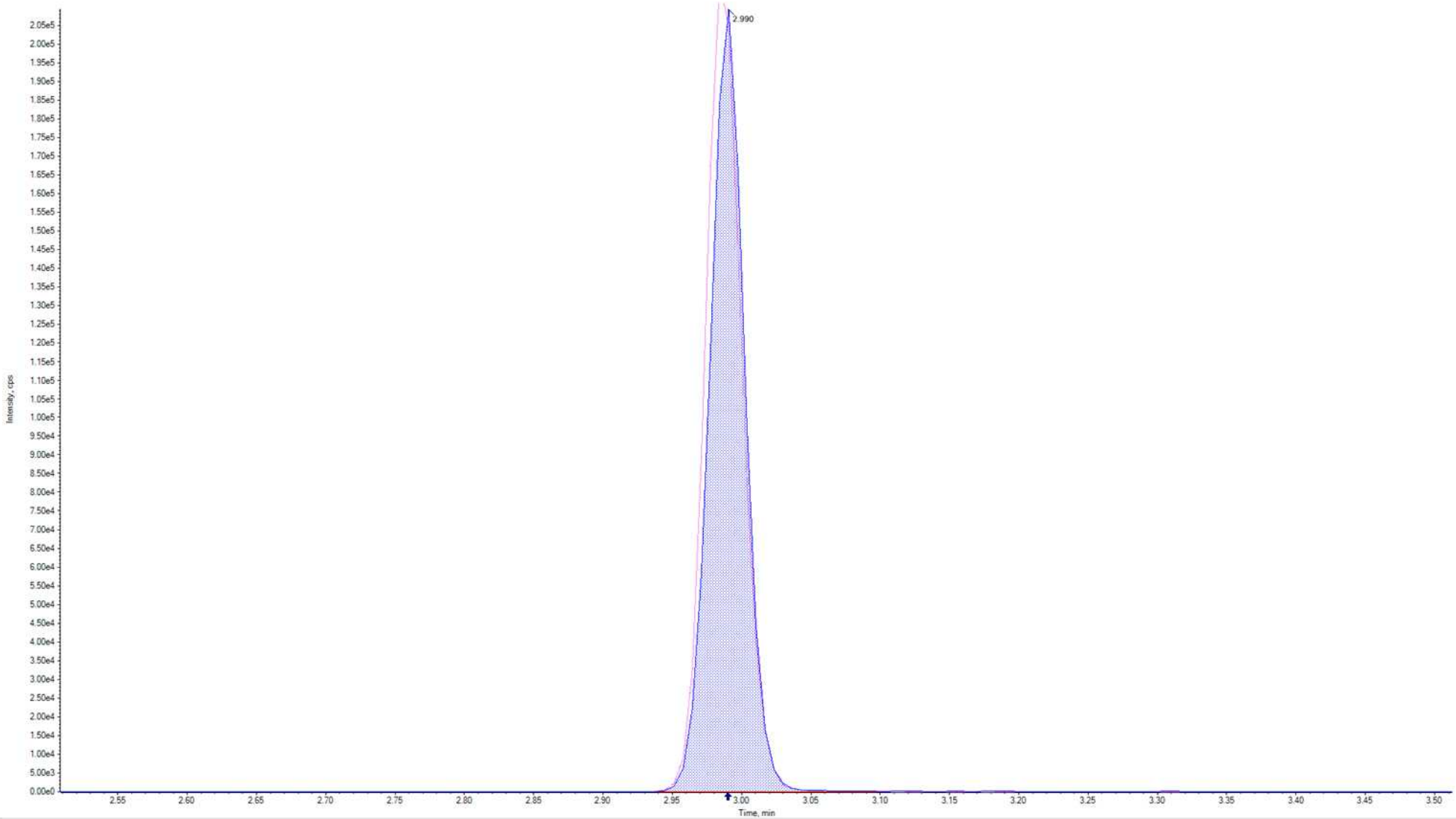
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

13C2D4-4:2FTS
Sample: IA1633STD-5 S/N:3000.0 Points Across peak:26

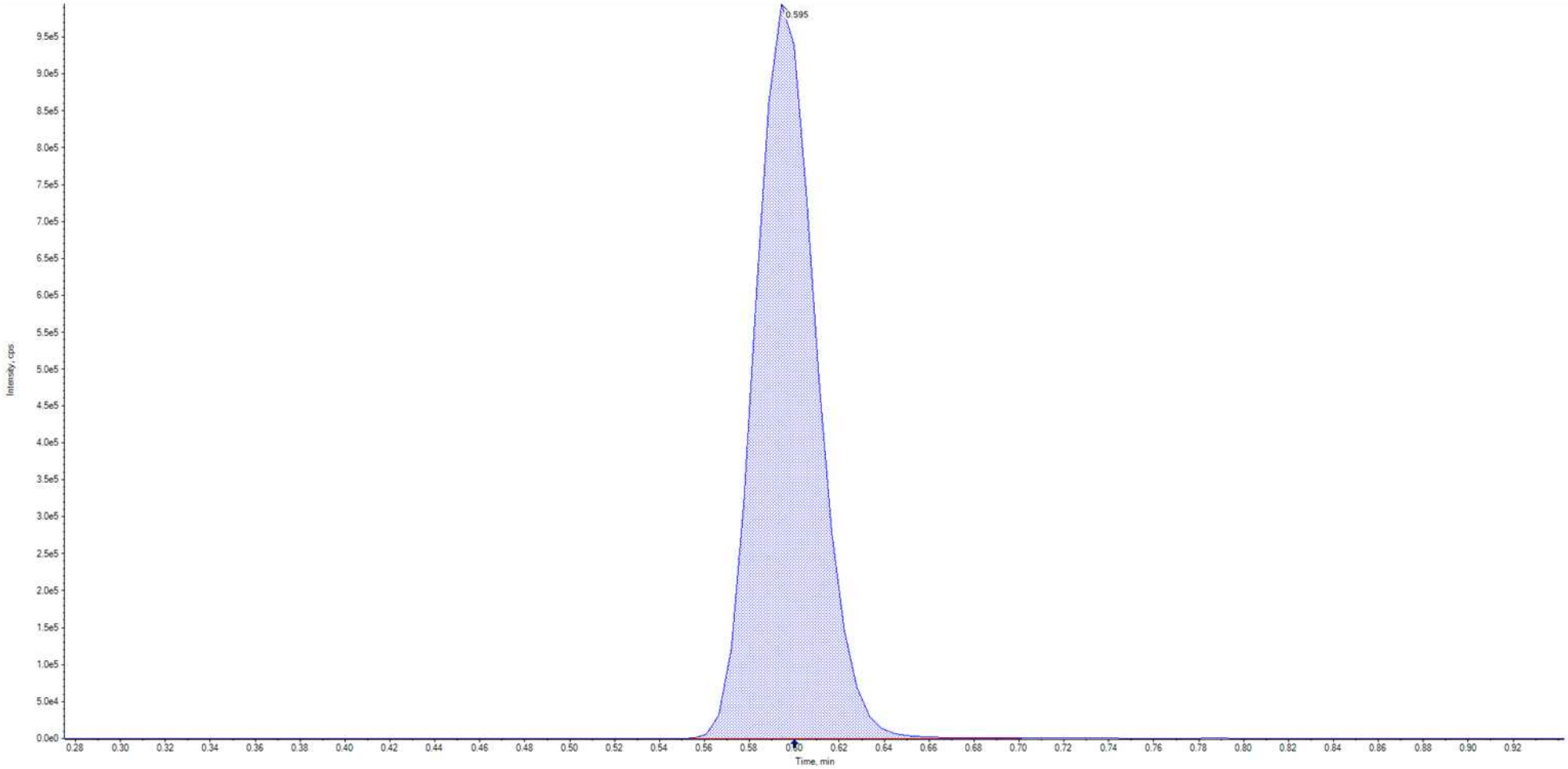


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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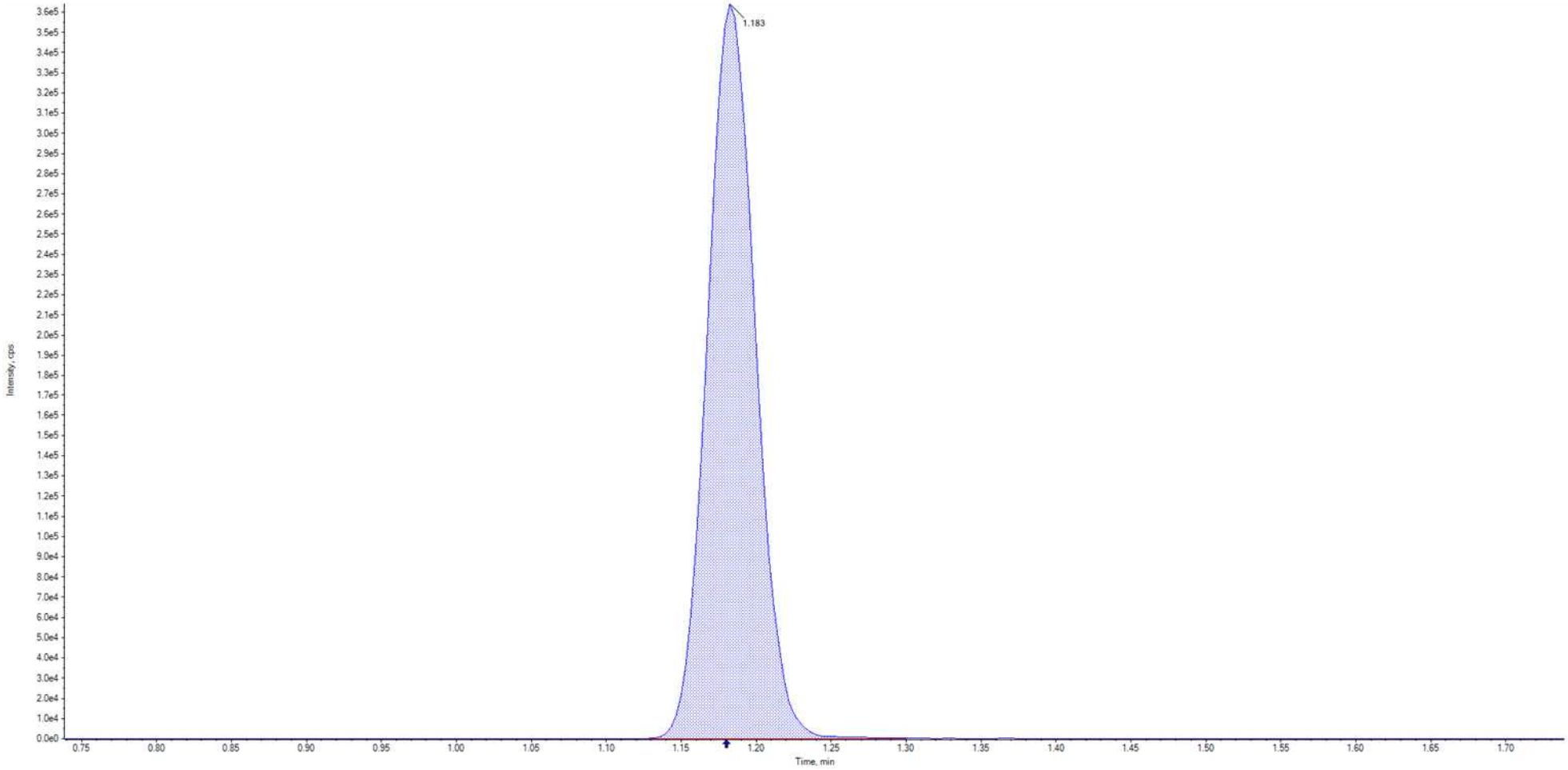
13C2-PFOA
Sample: IA1633STD-5 S/N:4722.1 Points Across peak:30



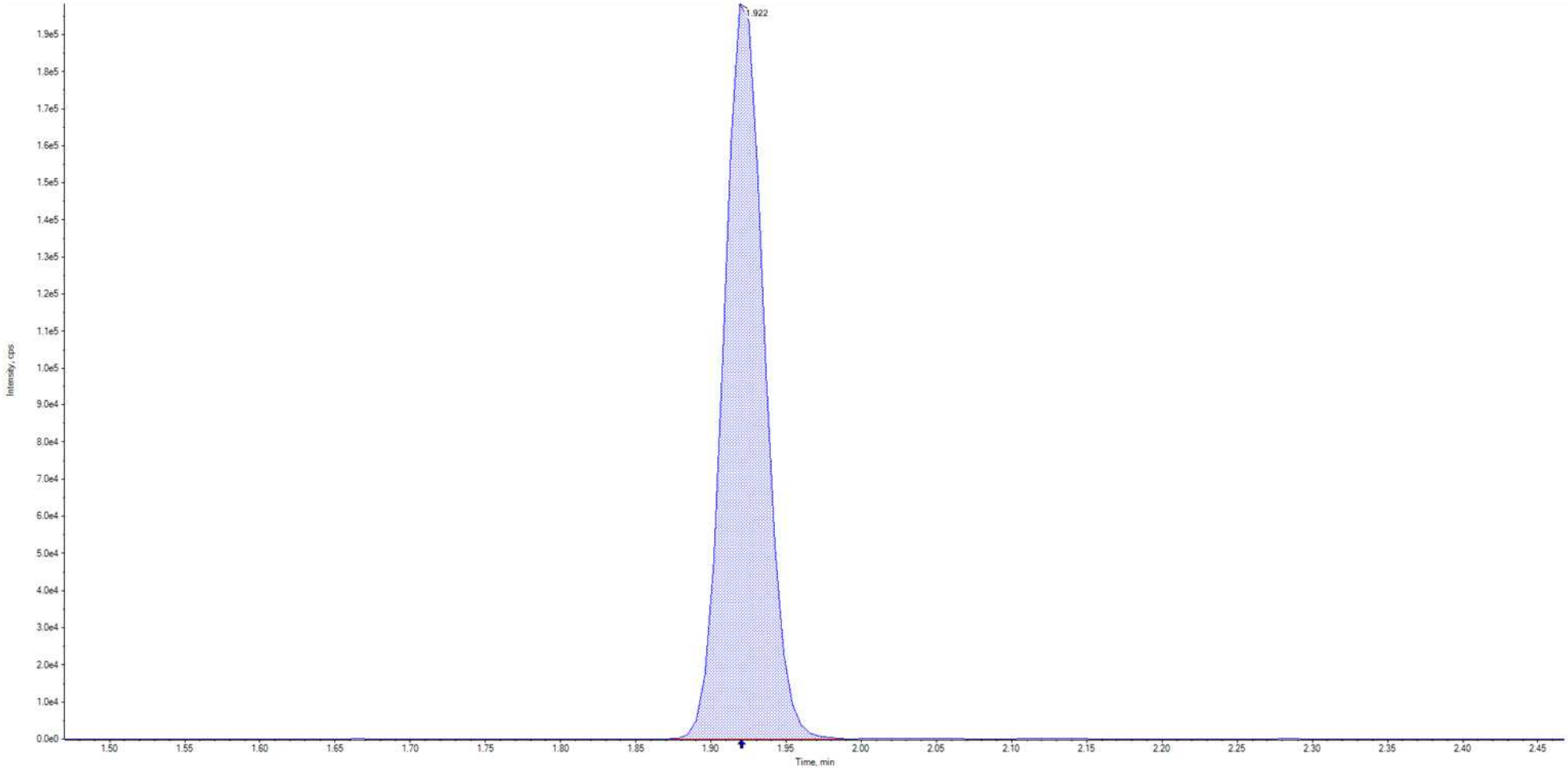
13C4-PFBA
Sample: IA1633STD-5



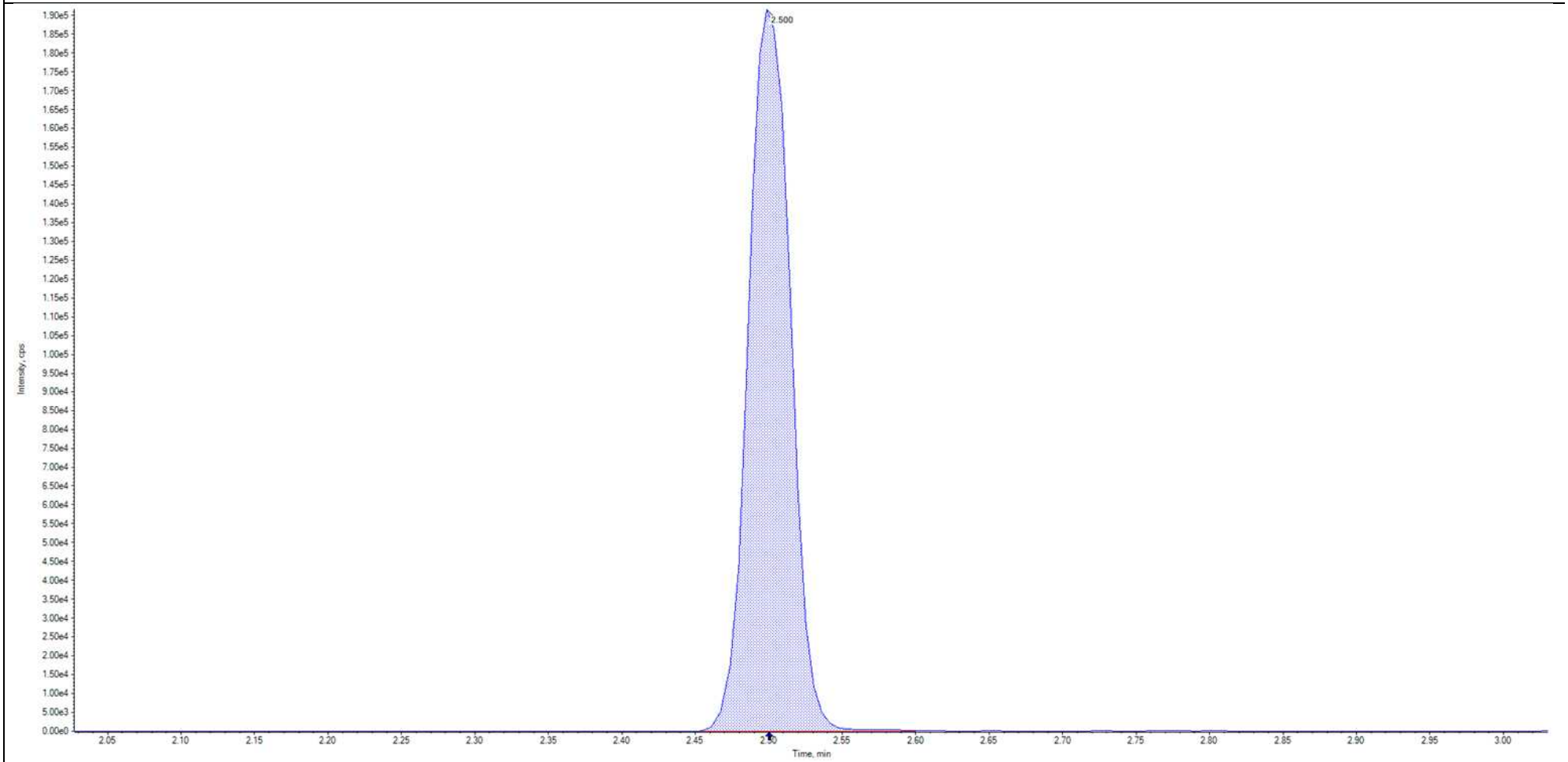
13C5-PFPeA
Sample: IA1633STD-5



13C5-PFHxA
Sample: IA1633STD-5

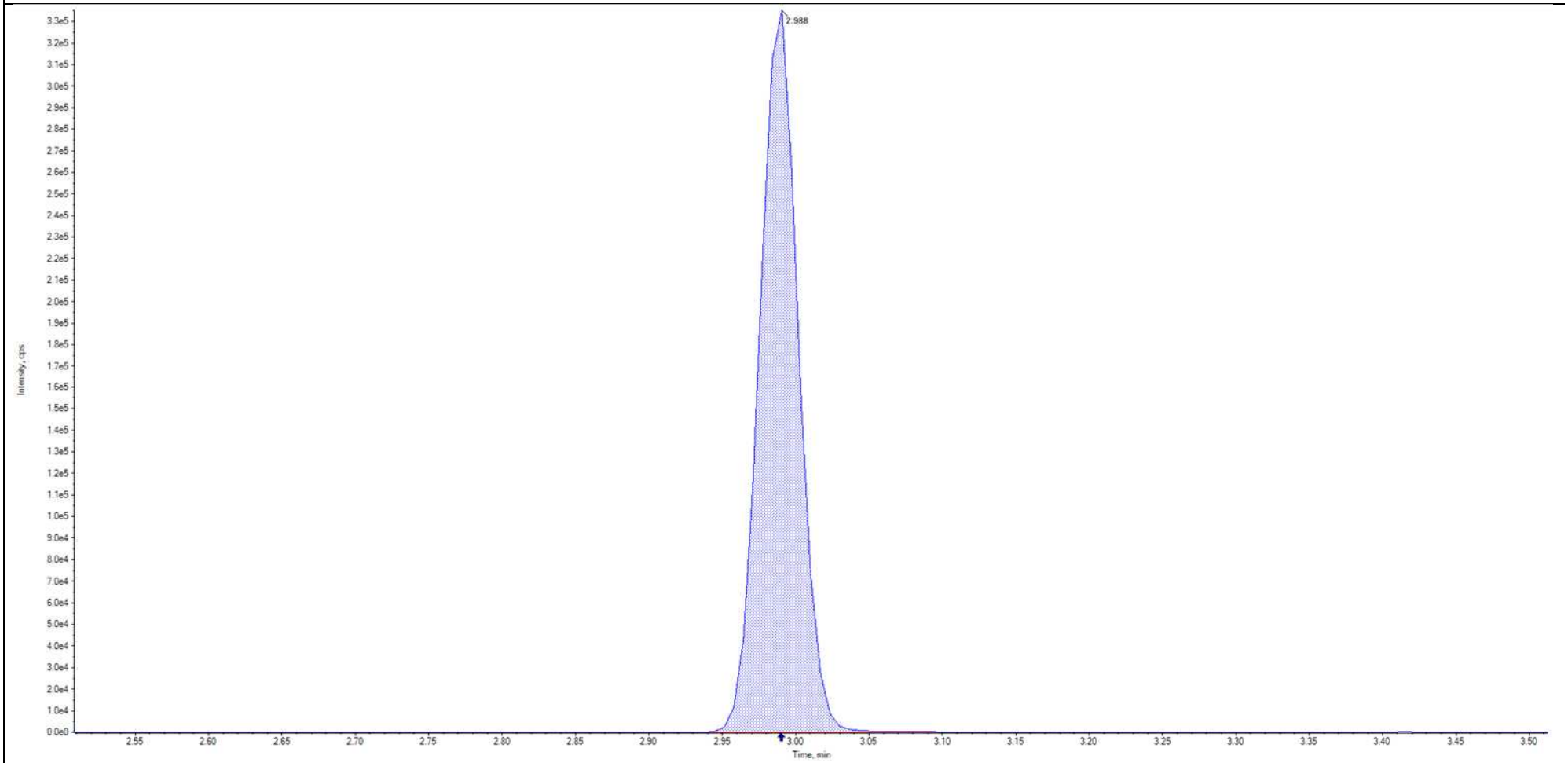


13C4-PFHpA
Sample: IA1633STD-5



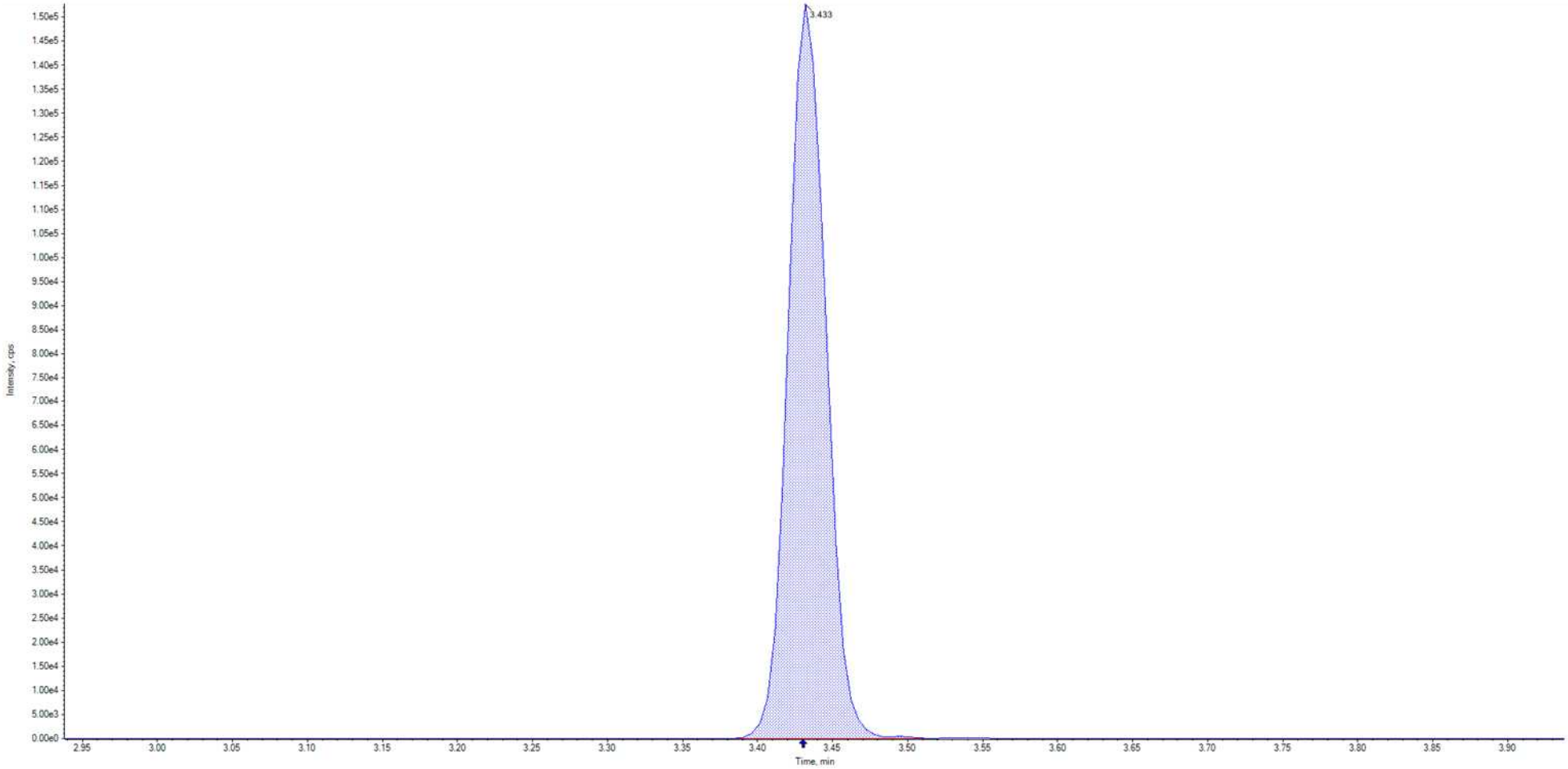
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

13C8-PFOA
Sample: IA1633STD-5



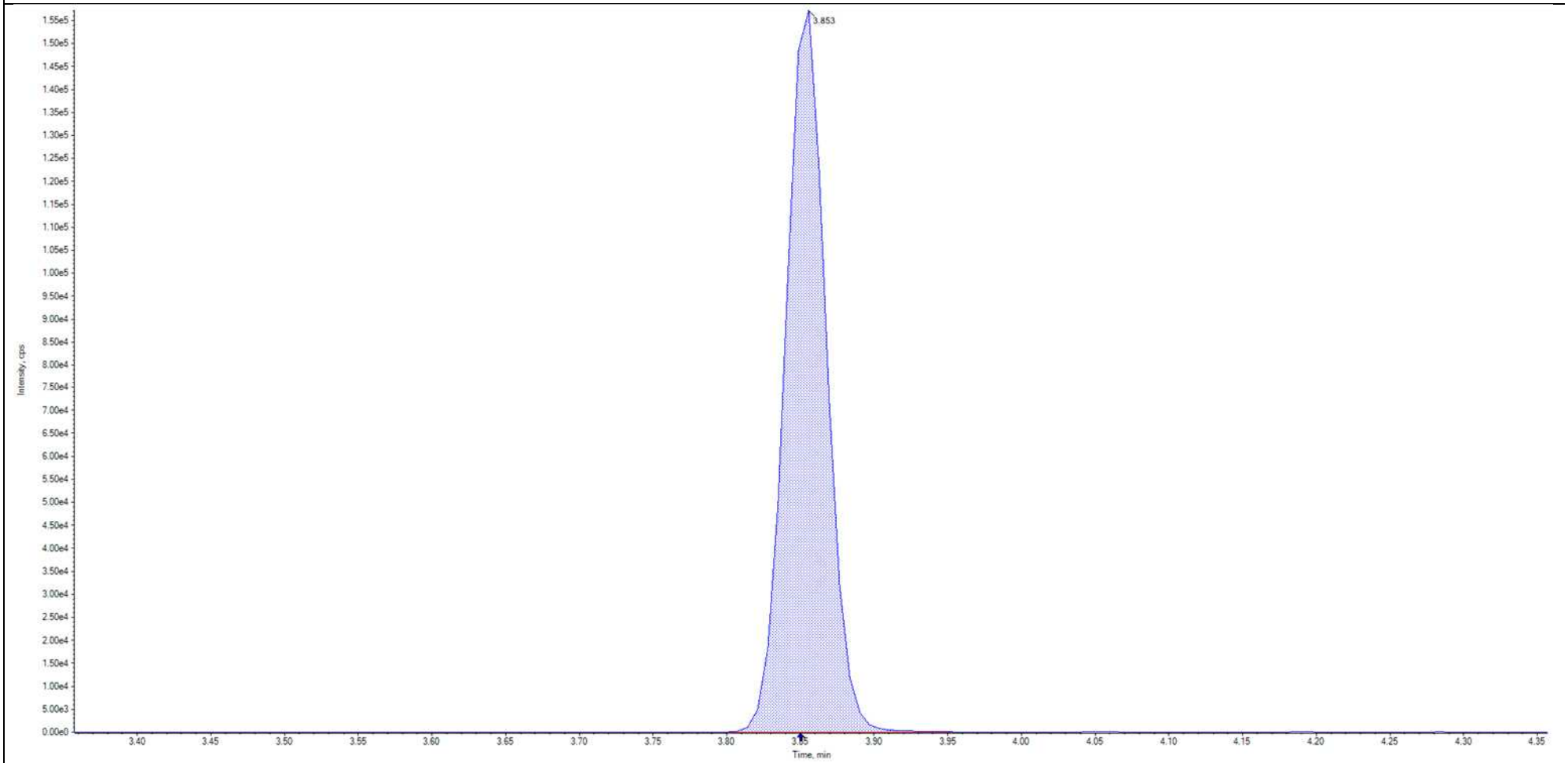
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

13C9-PFNA
Sample: IA1633STD-5

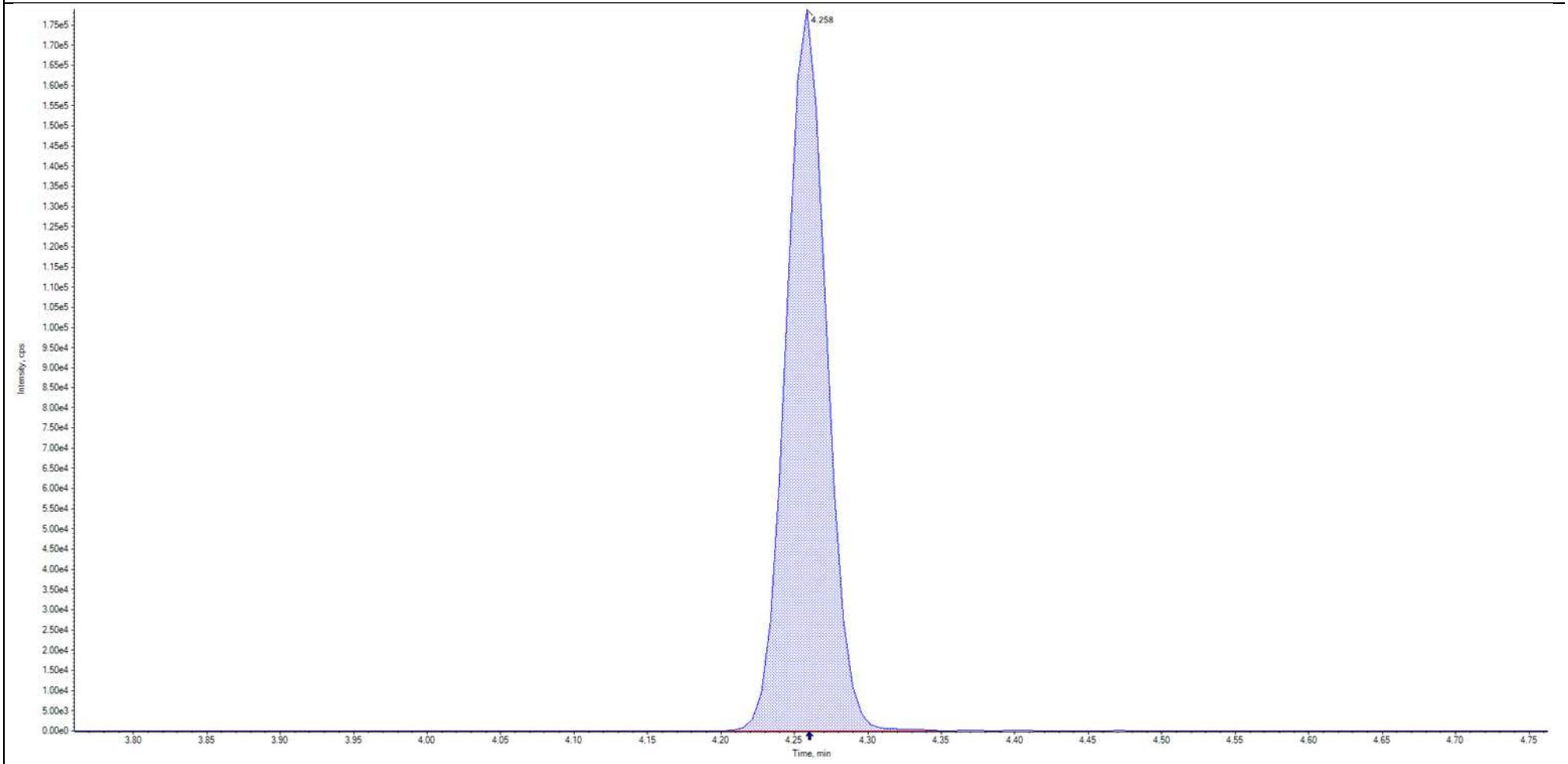


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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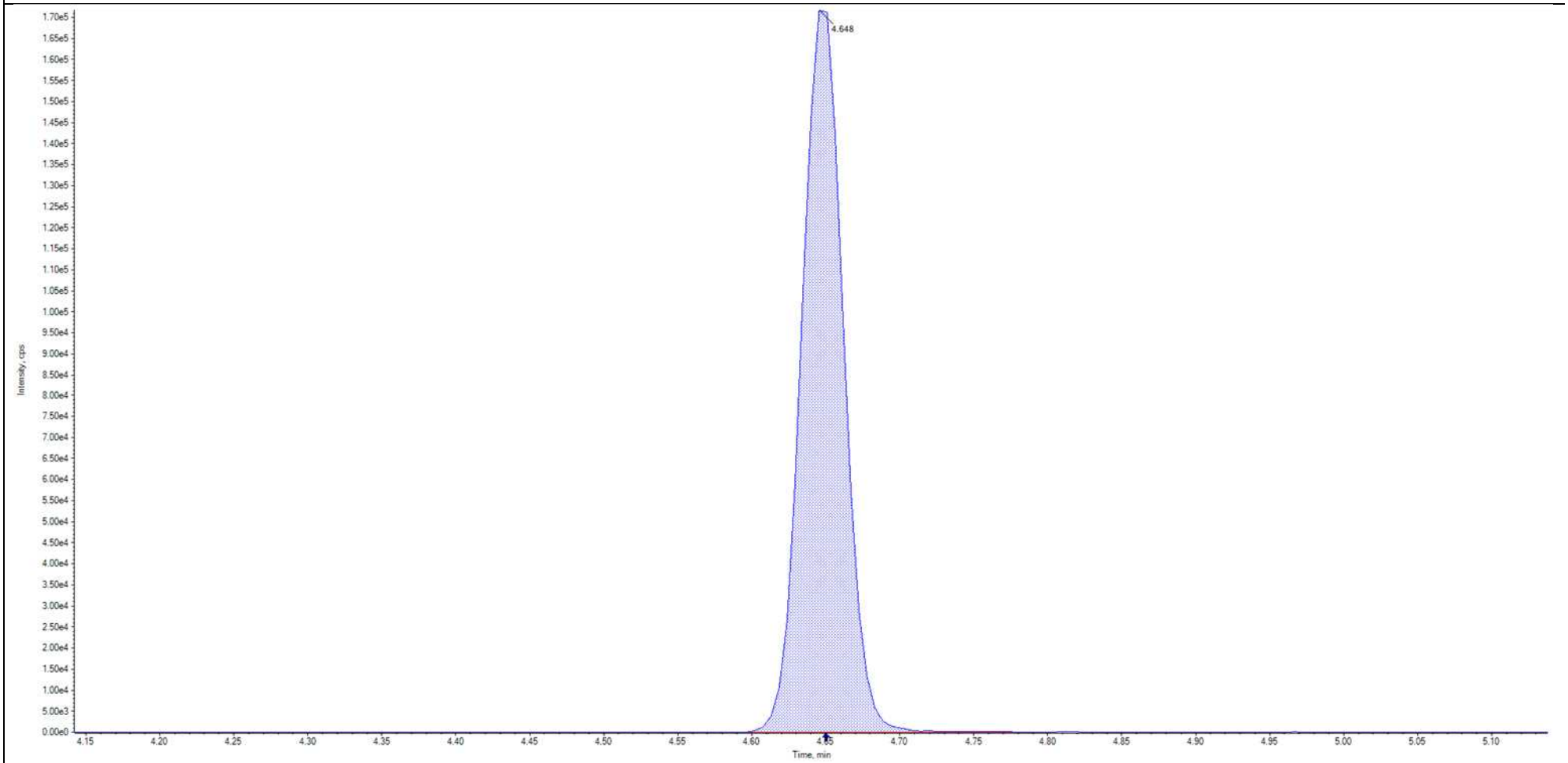
13C6-PFDA
Sample: IA1633STD-5



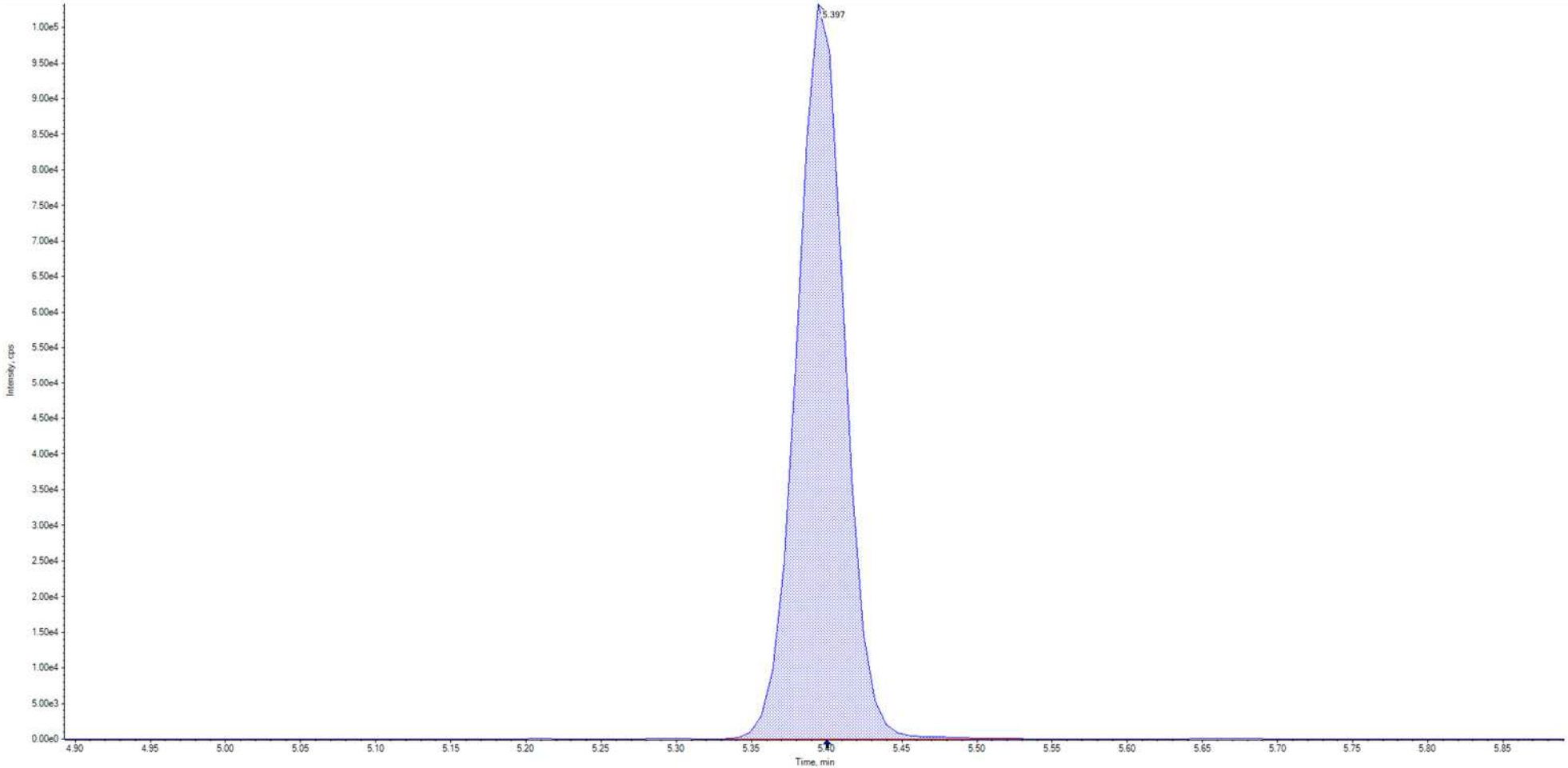
13C7-PFUnA
Sample: IA1633STD-5



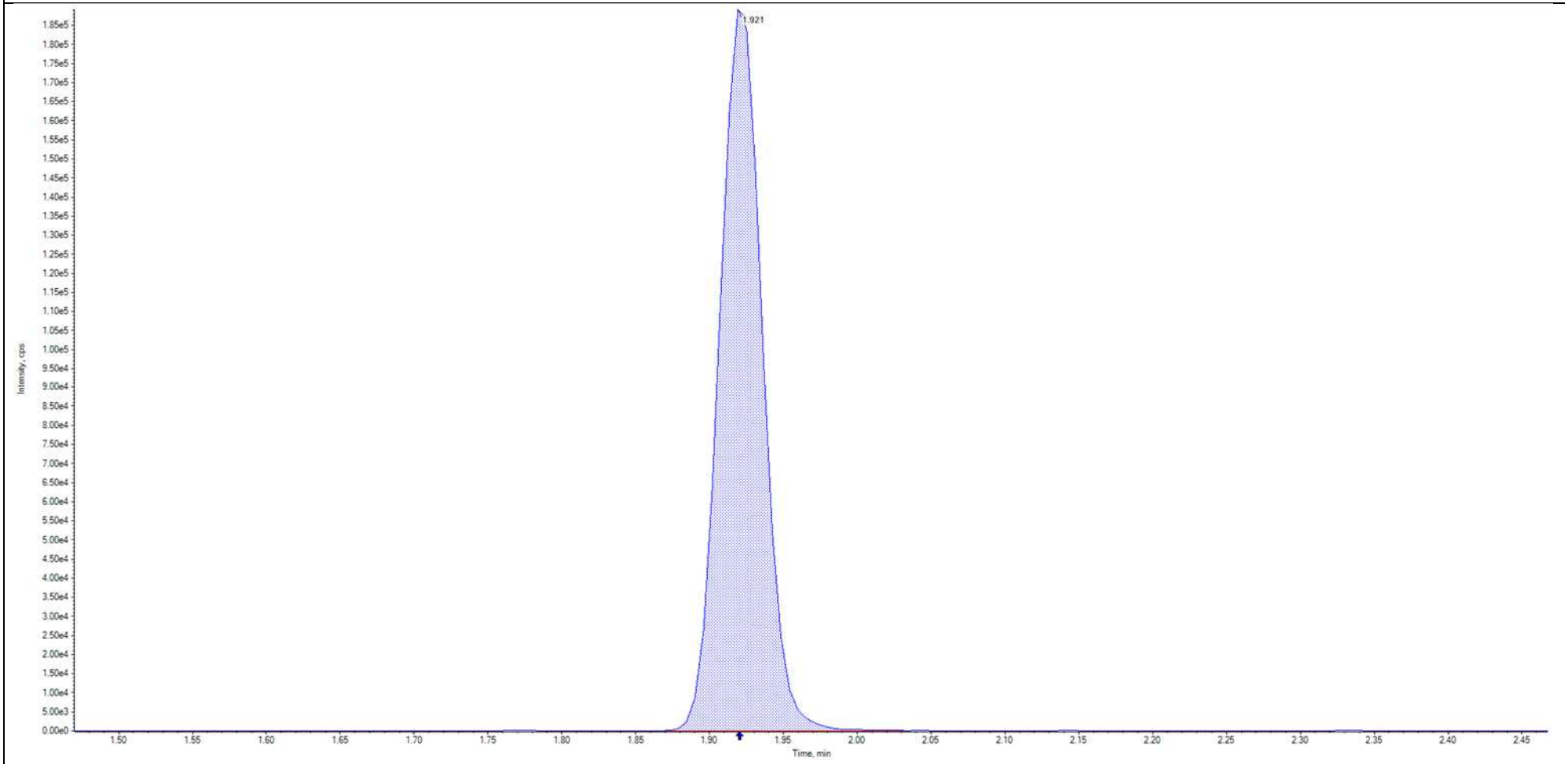
13C2-PFDoA
Sample: IA1633STD-5



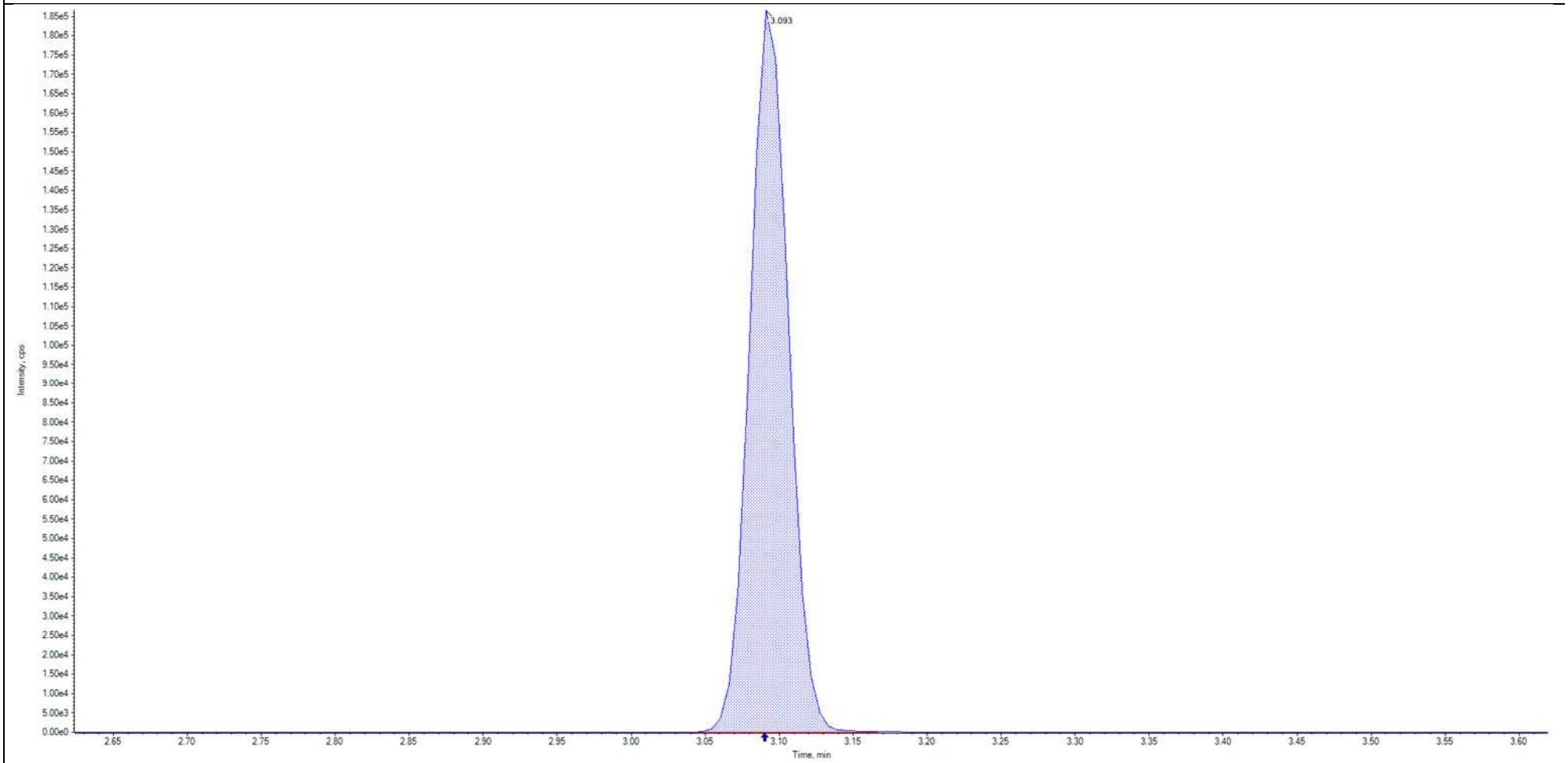
13C2-PFTeDA
Sample: IA1633STD-5



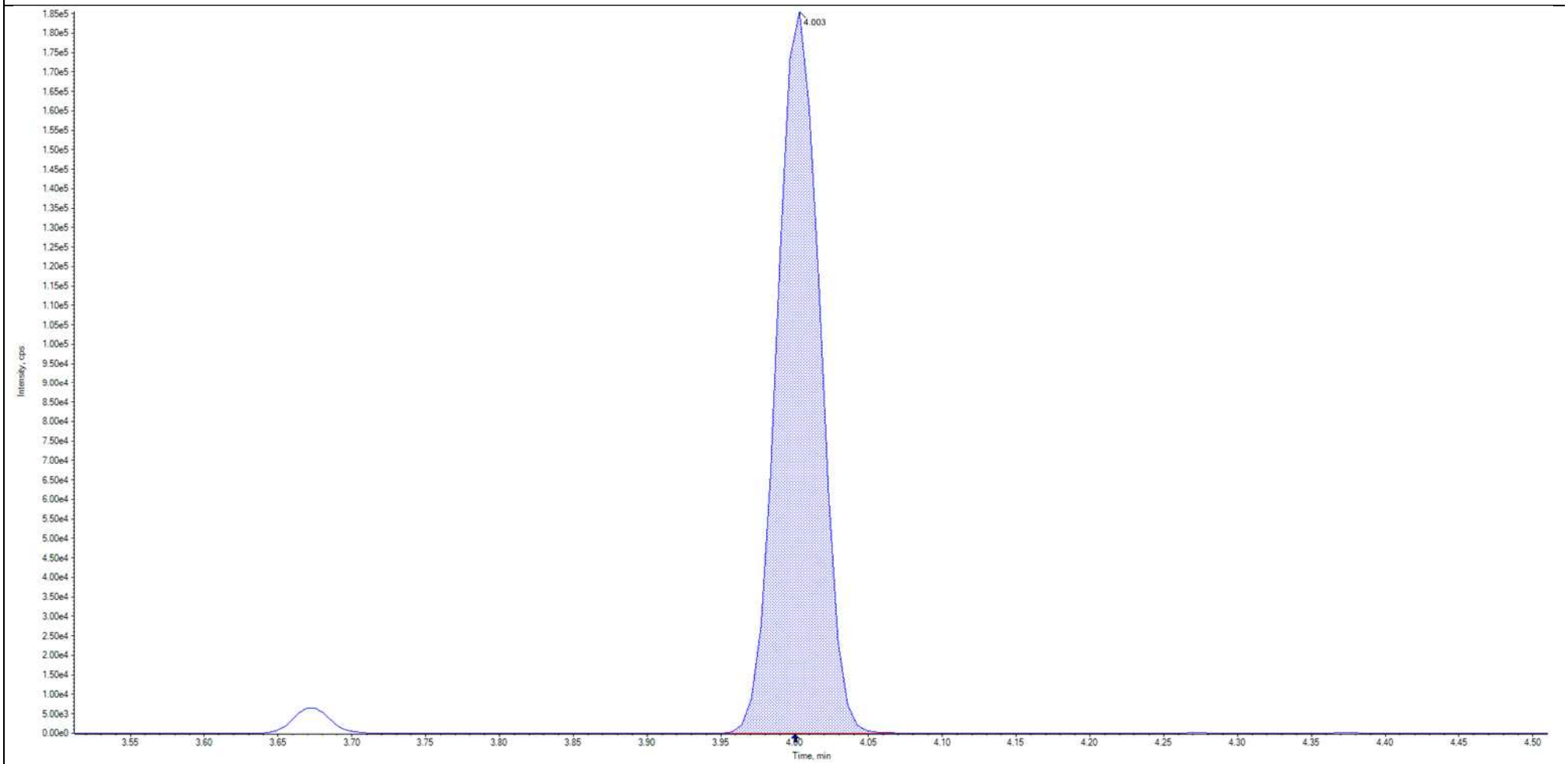
13C3-PFBS
Sample: IA1633STD-5



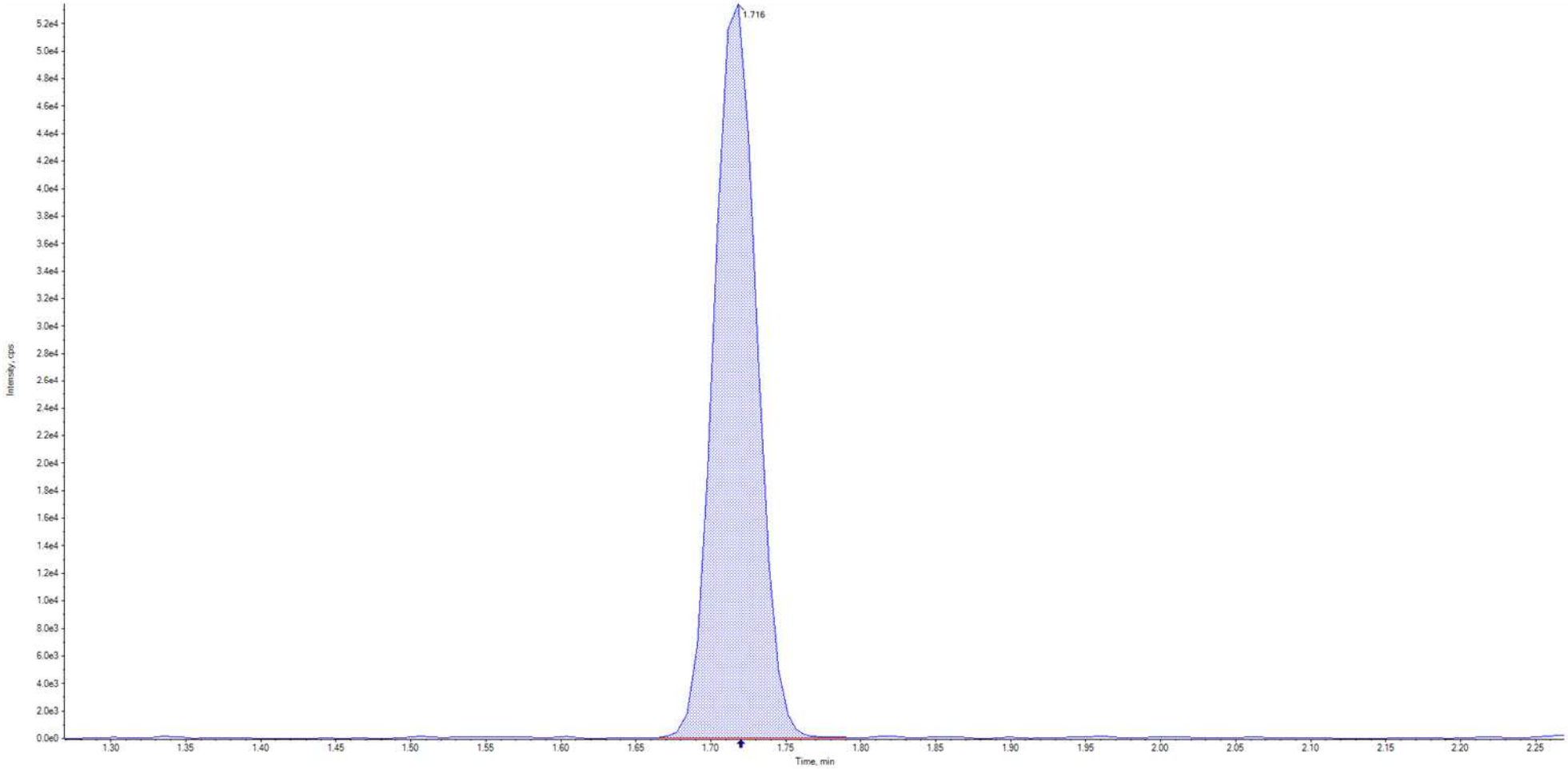
13C3-PFHxS
Sample: IA1633STD-5



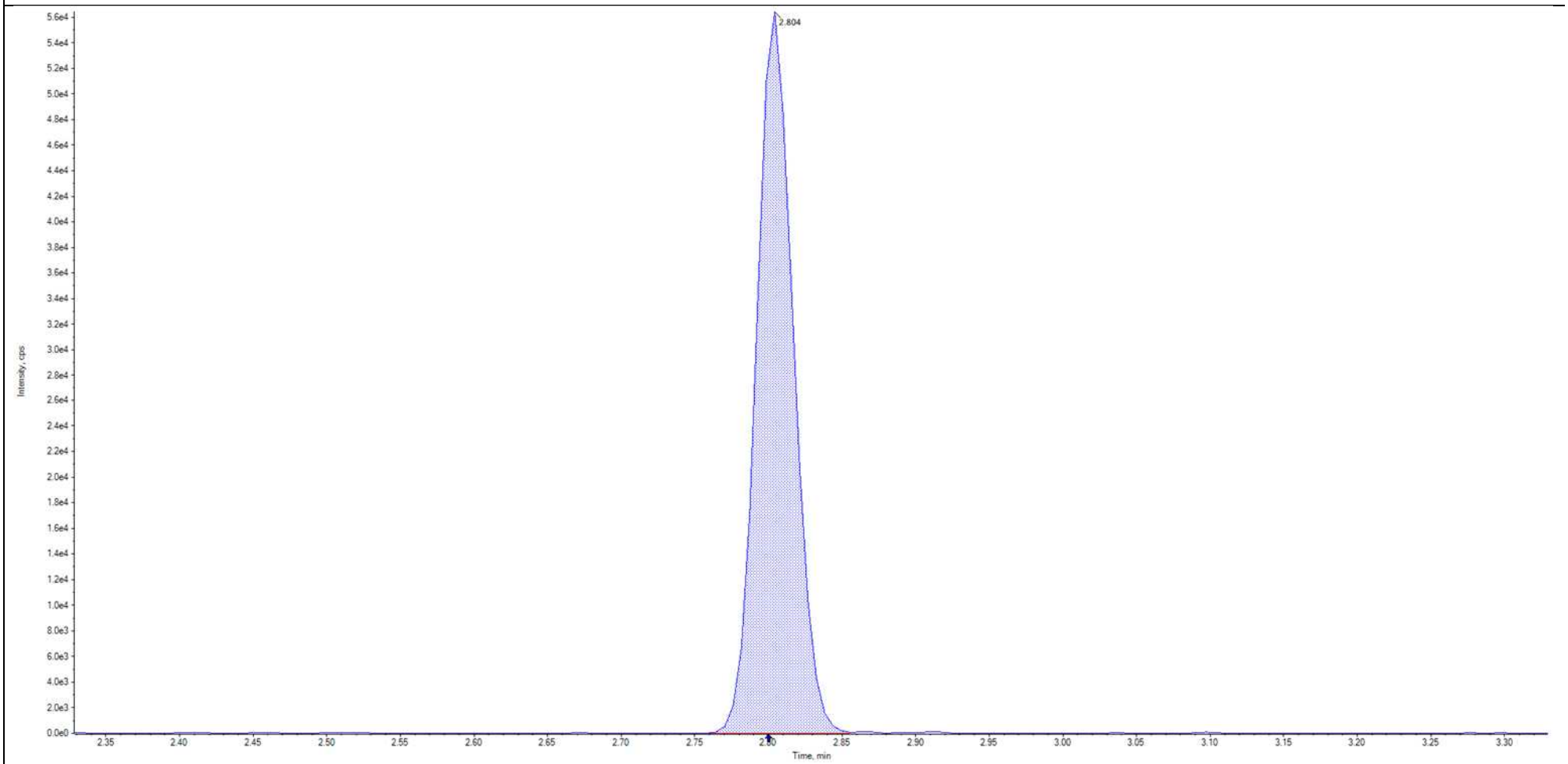
13C8-PFOS
Sample: IA1633STD-5



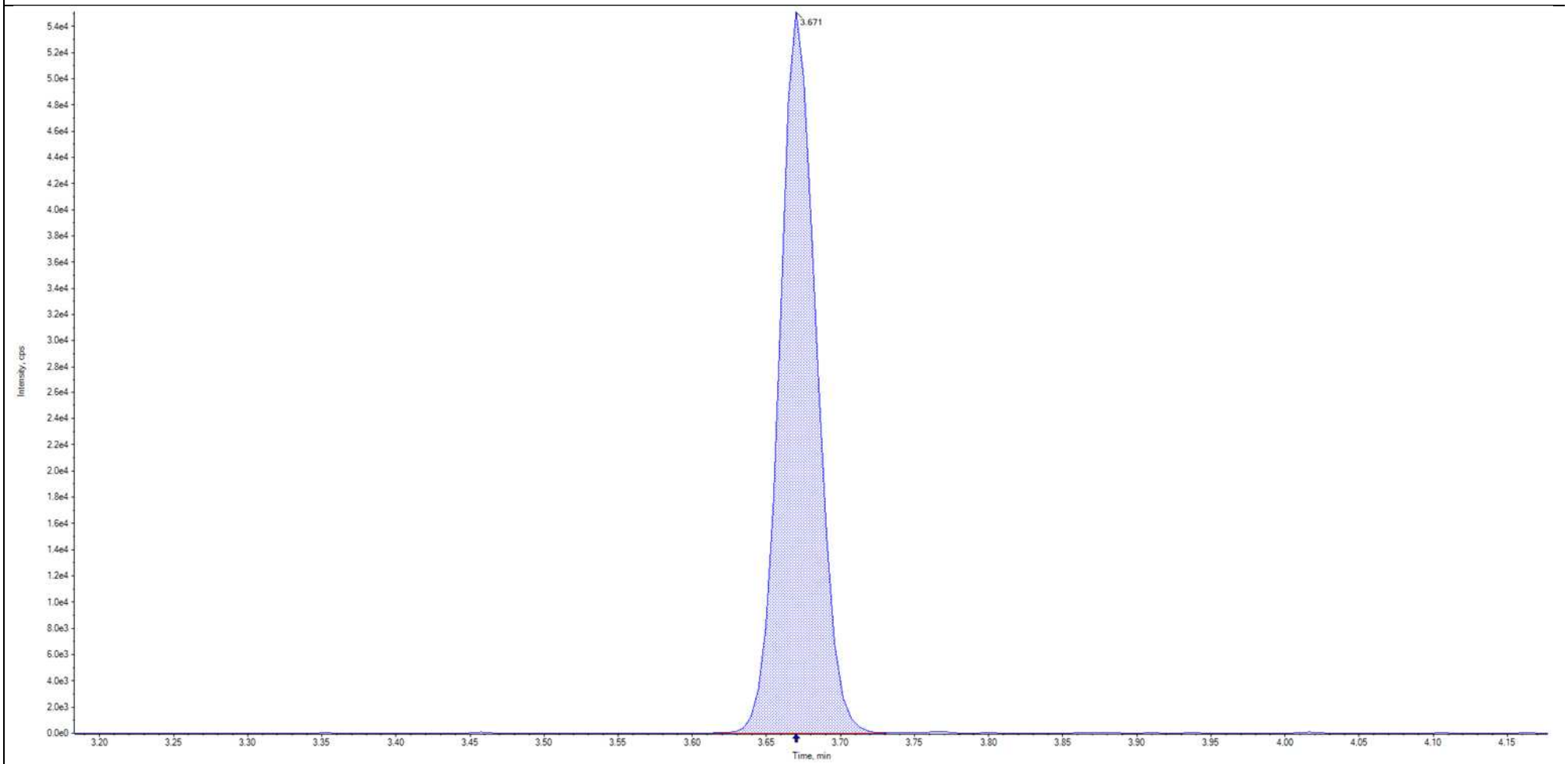
13C2-4:2FTS
Sample: IA1633STD-5



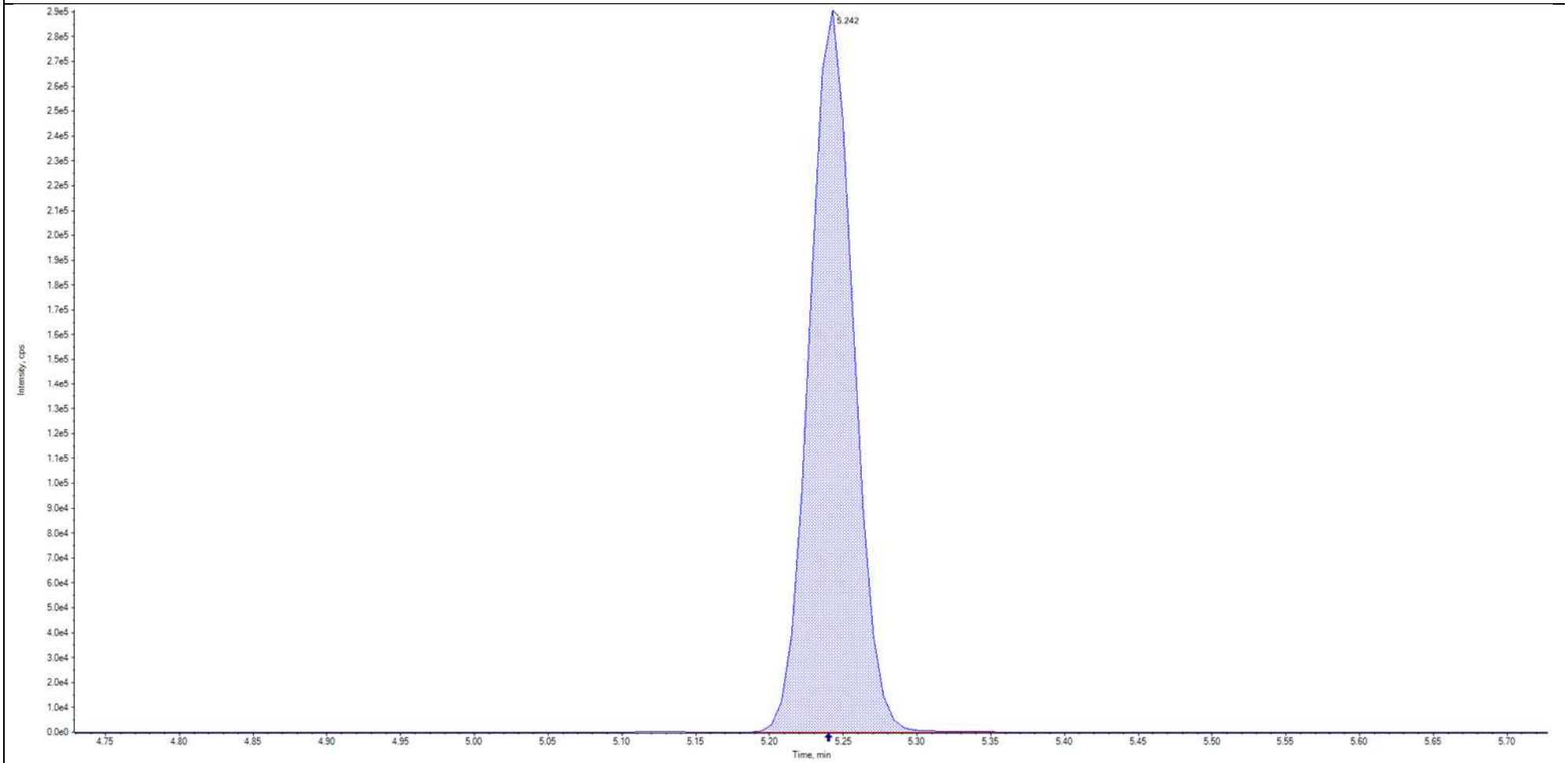
13C2-6:2FTS
Sample: IA1633STD-5



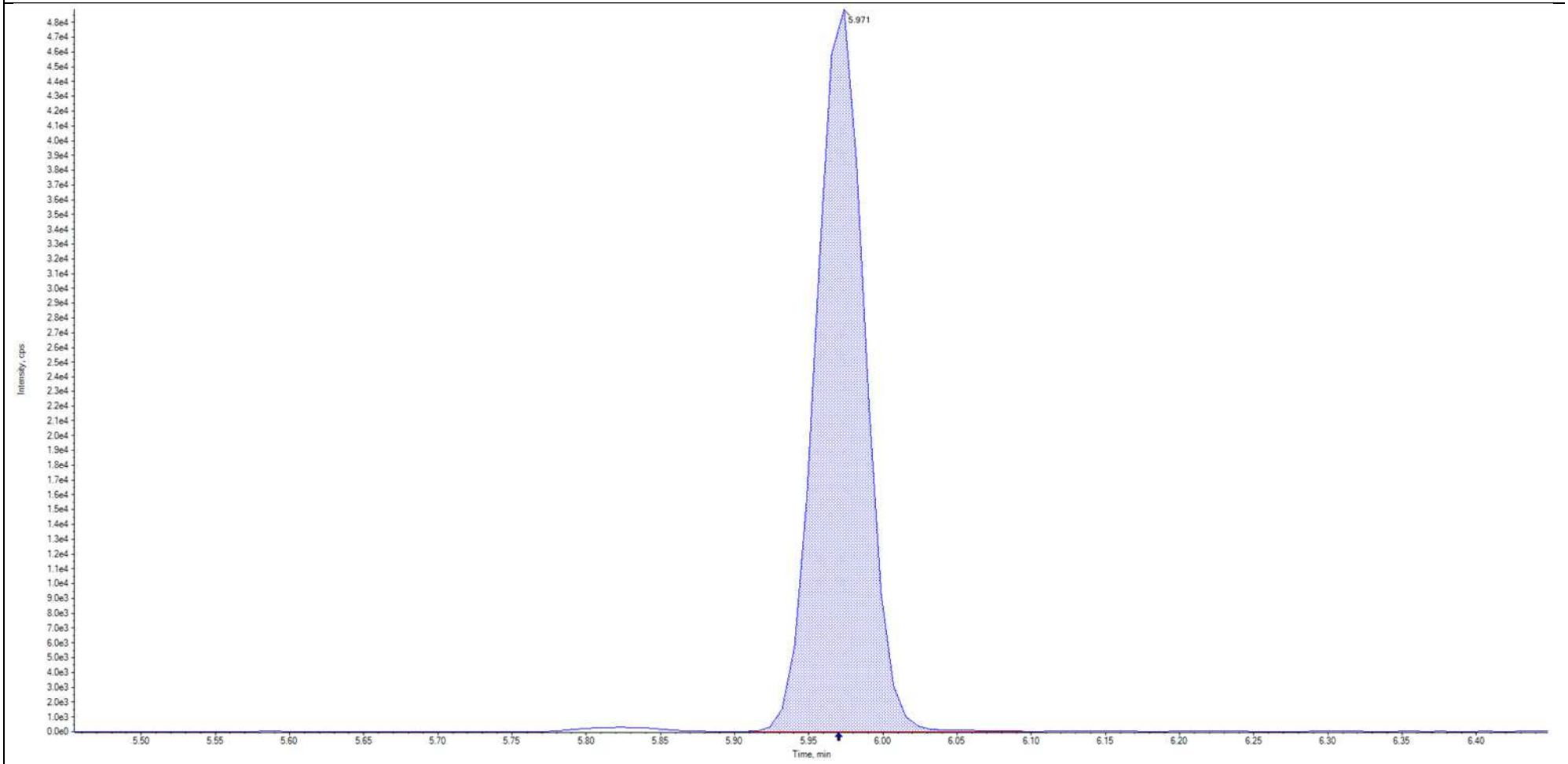
13C2-8:2FTS
Sample: IA1633STD-5



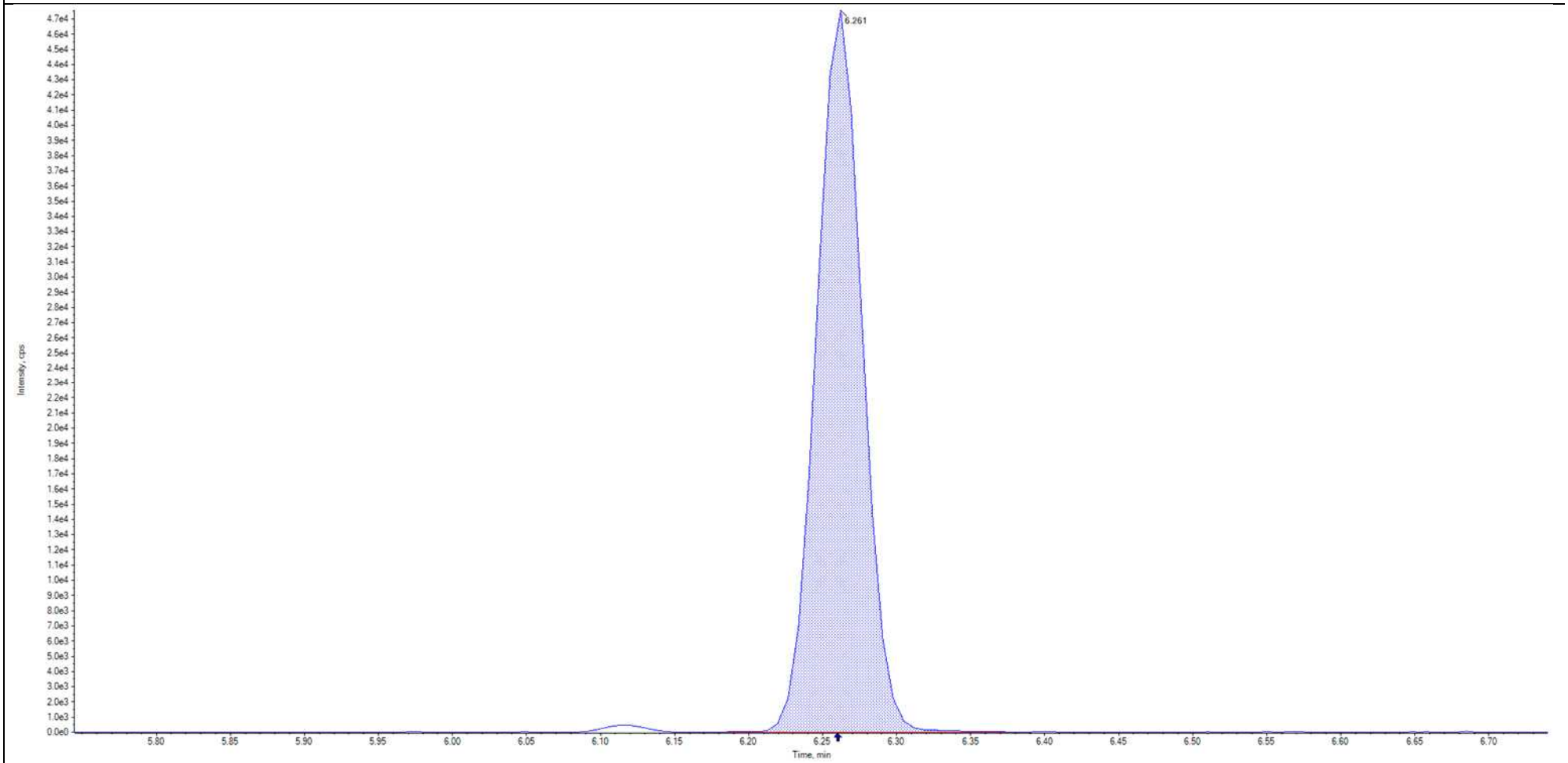
13C8-PFOSA
Sample: IA1633STD-5



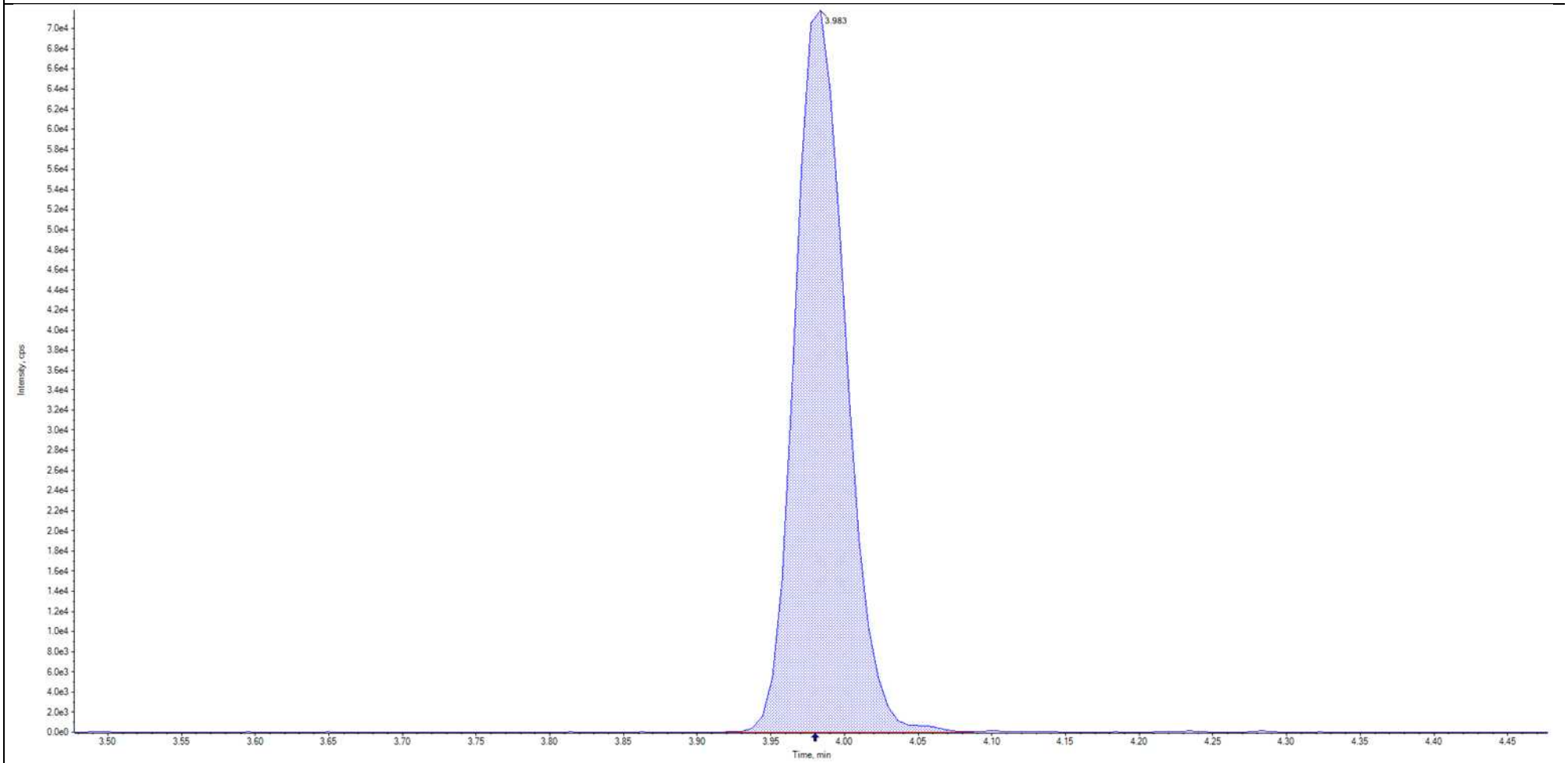
d3-NMeFOSA
Sample: IA1633STD-5



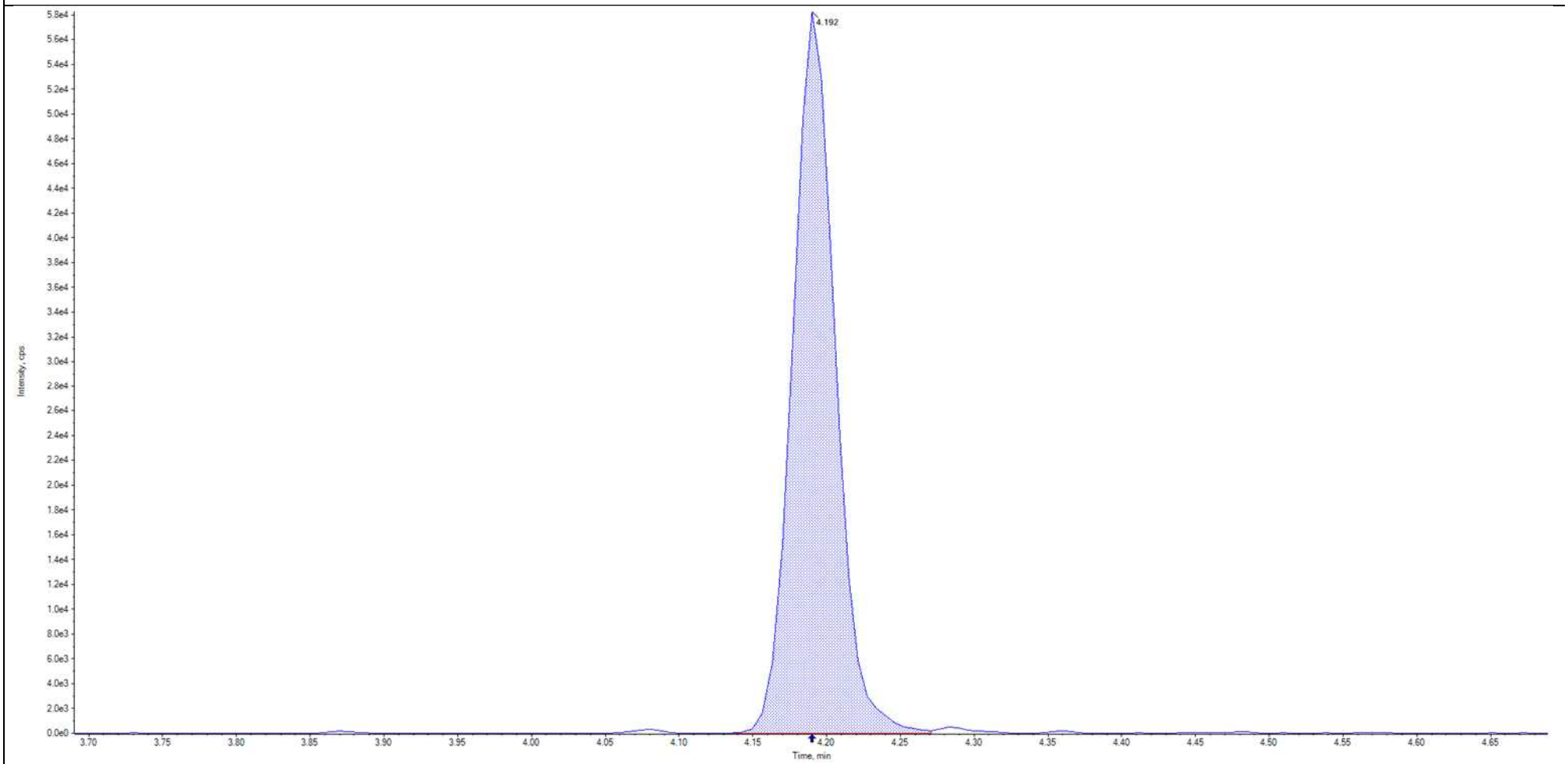
d5-NEtFOSA
Sample: IA1633STD-5



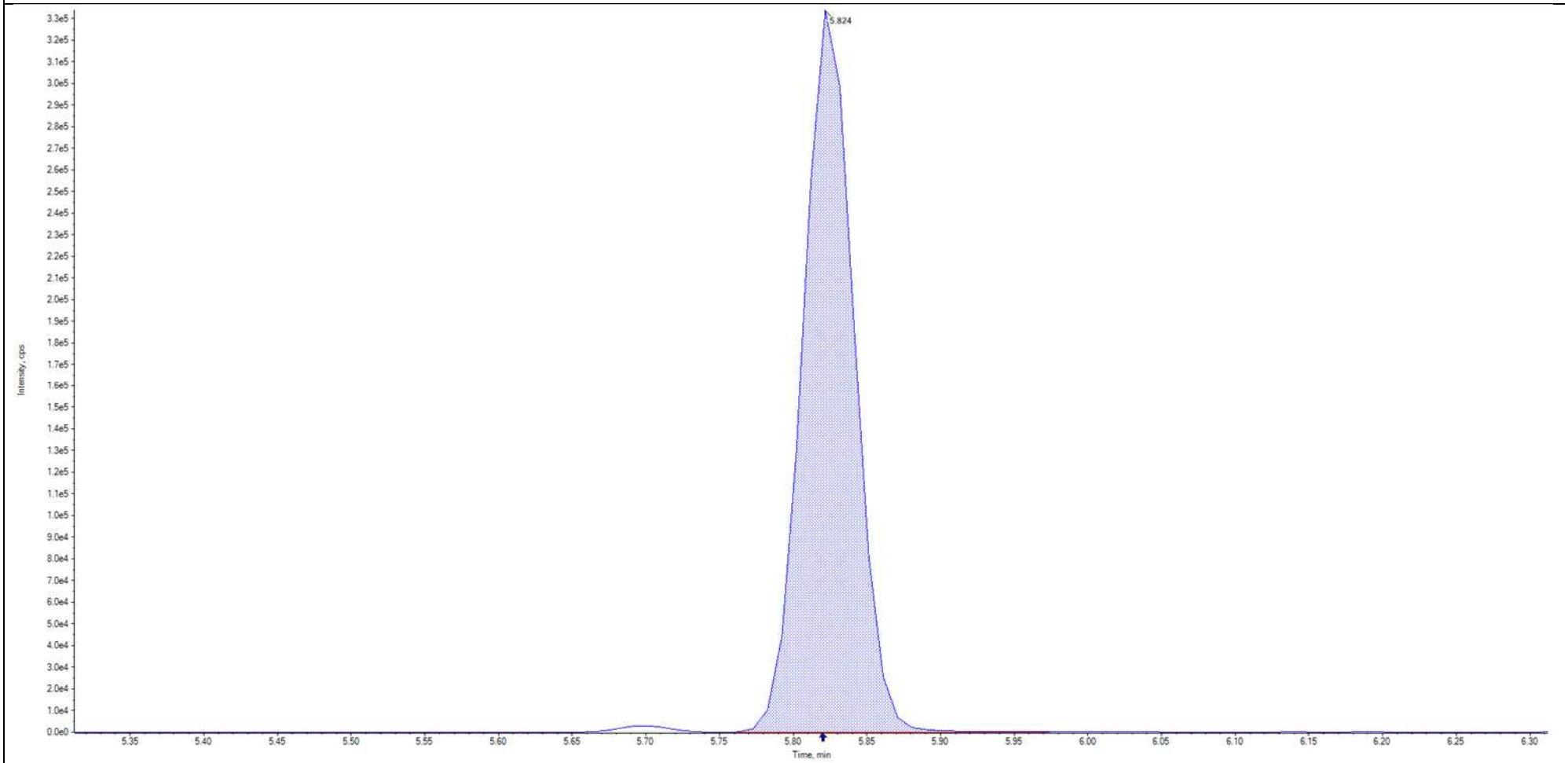
d3-NMeFOSAA
Sample: IA1633STD-5



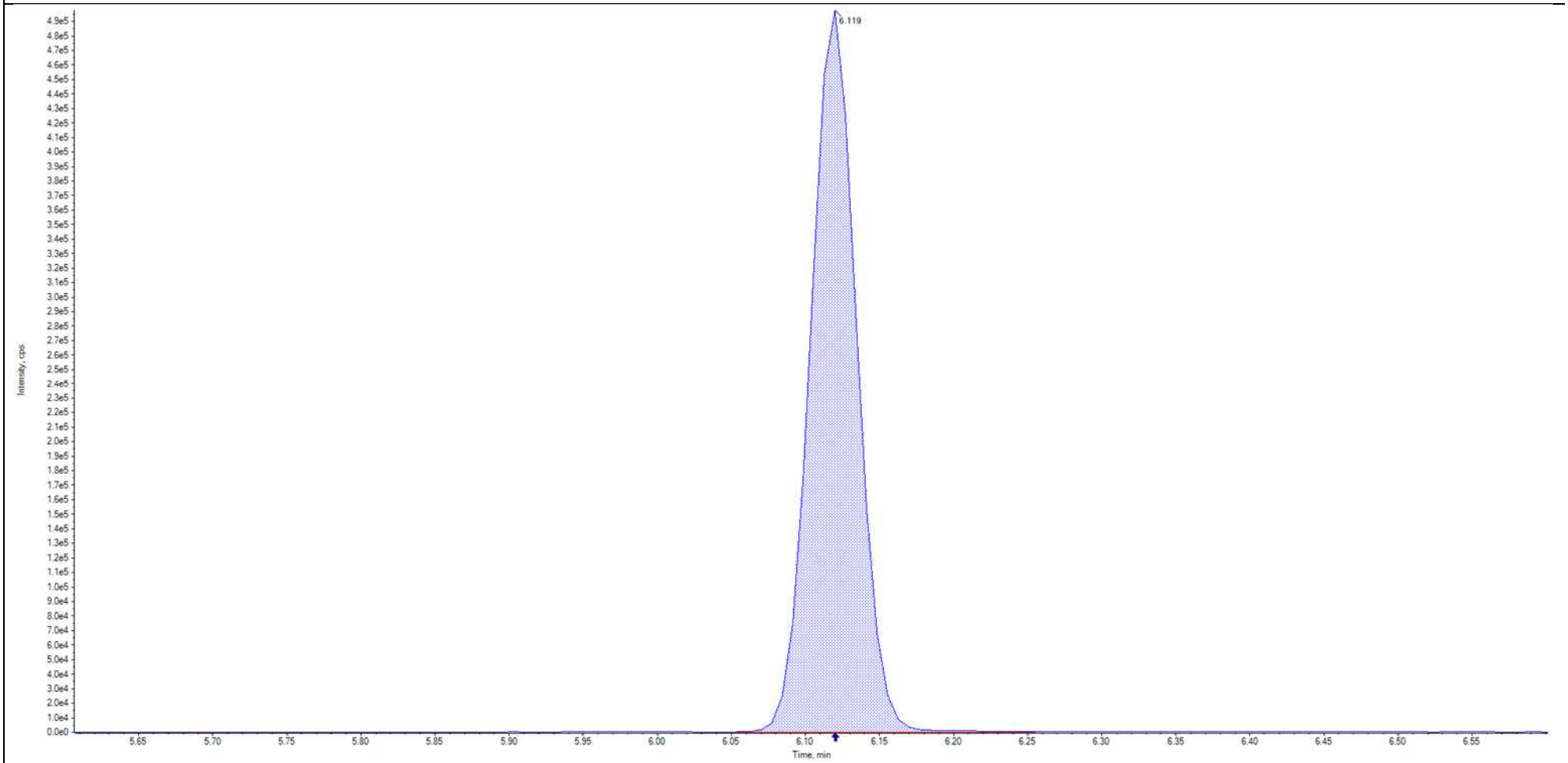
d5-NEtFOSAA
Sample: IA1633STD-5



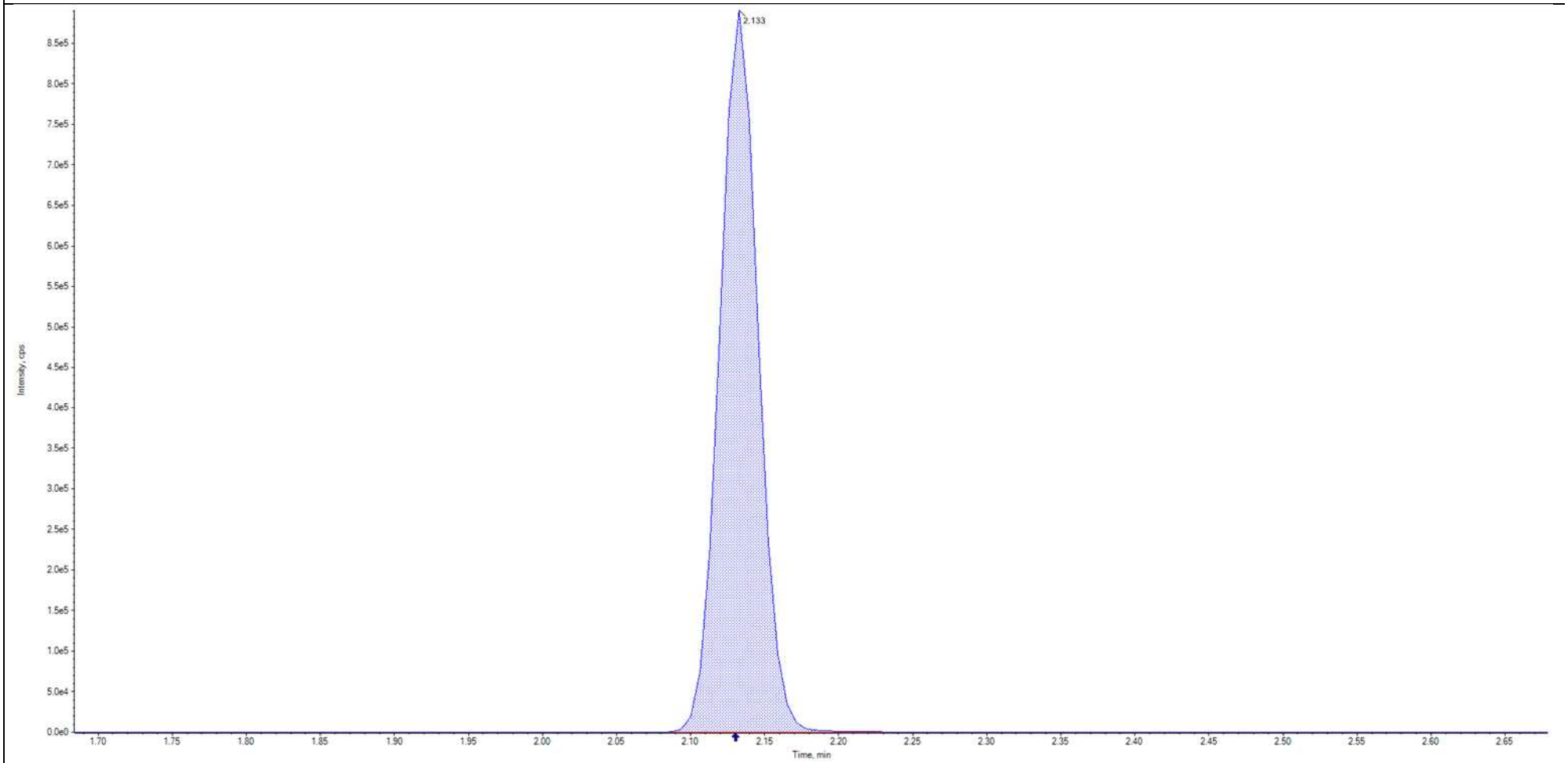
d7-NMeFOSE
Sample: IA1633STD-5



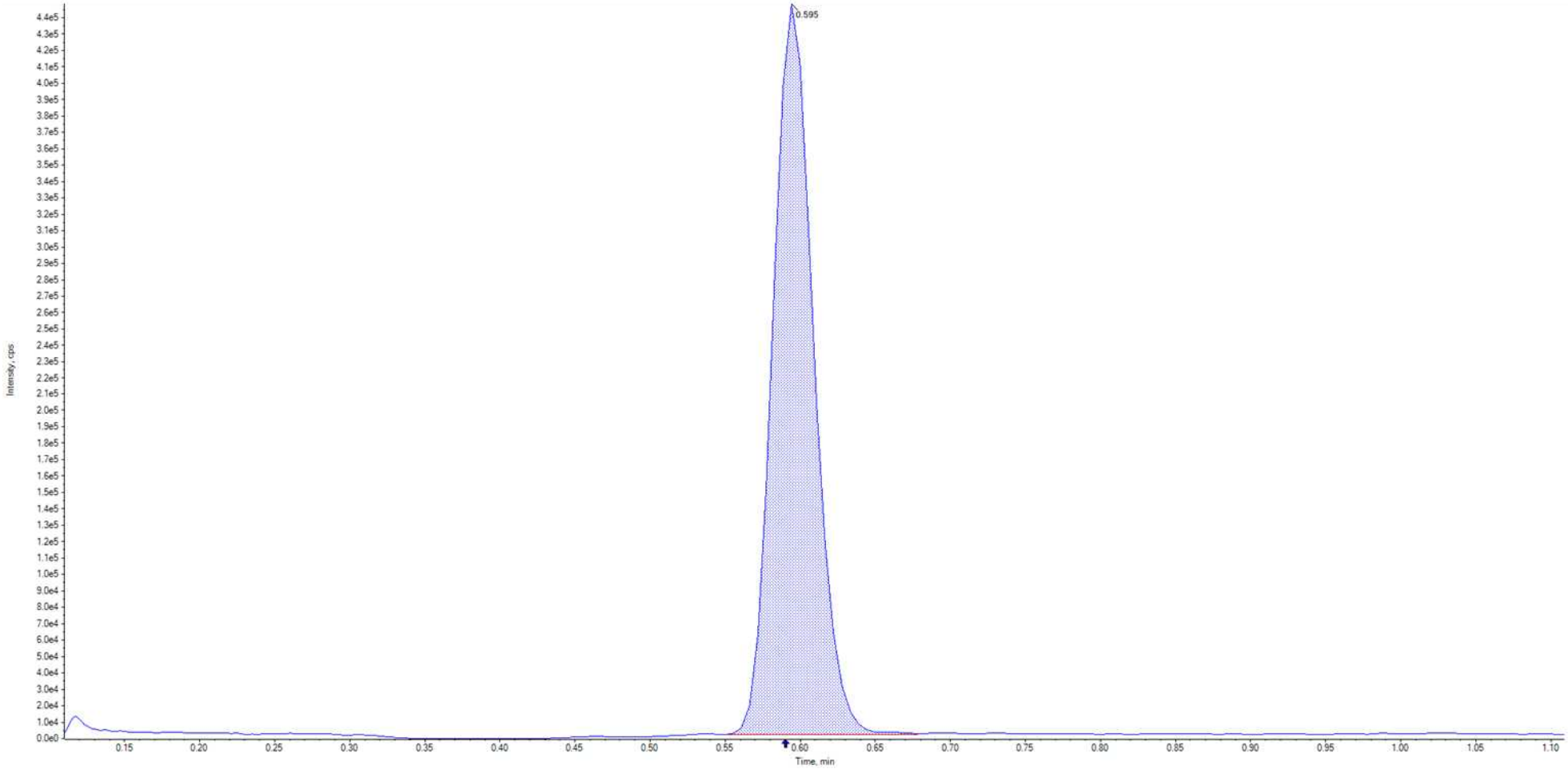
d9-NEtFOSE
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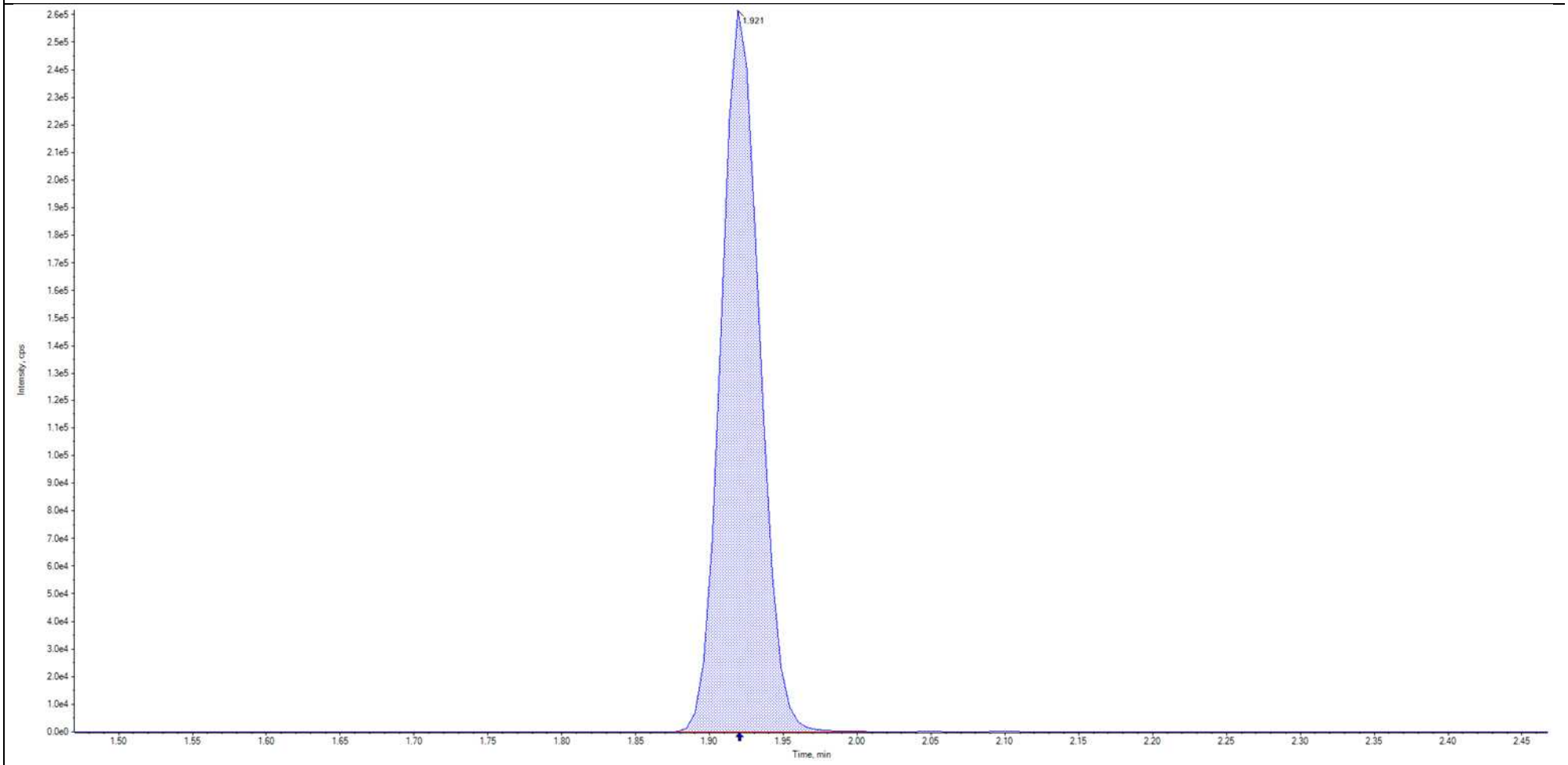
13C3-HFPO-DA
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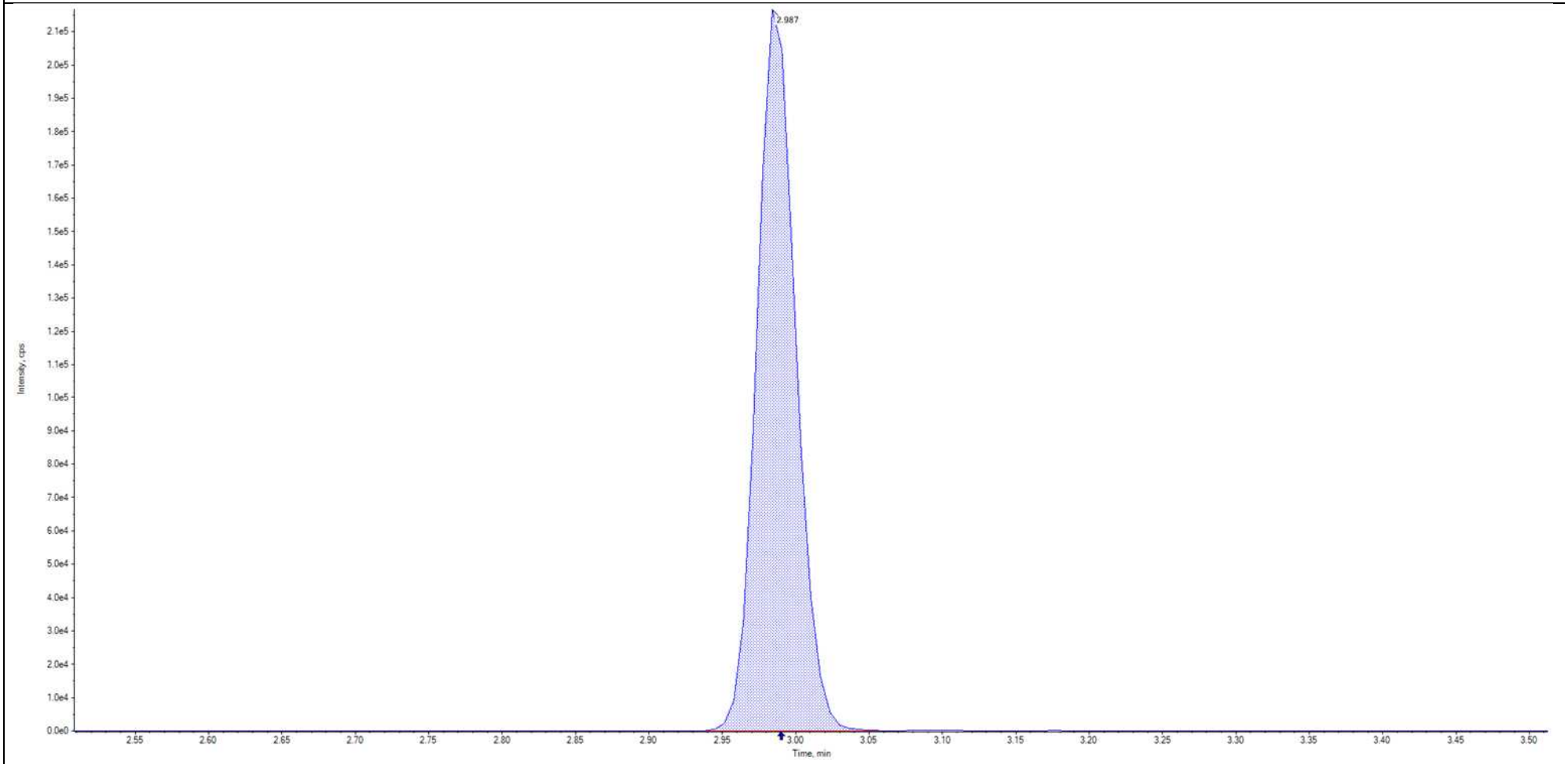
13C3-PFBA
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13C2-PFHxA
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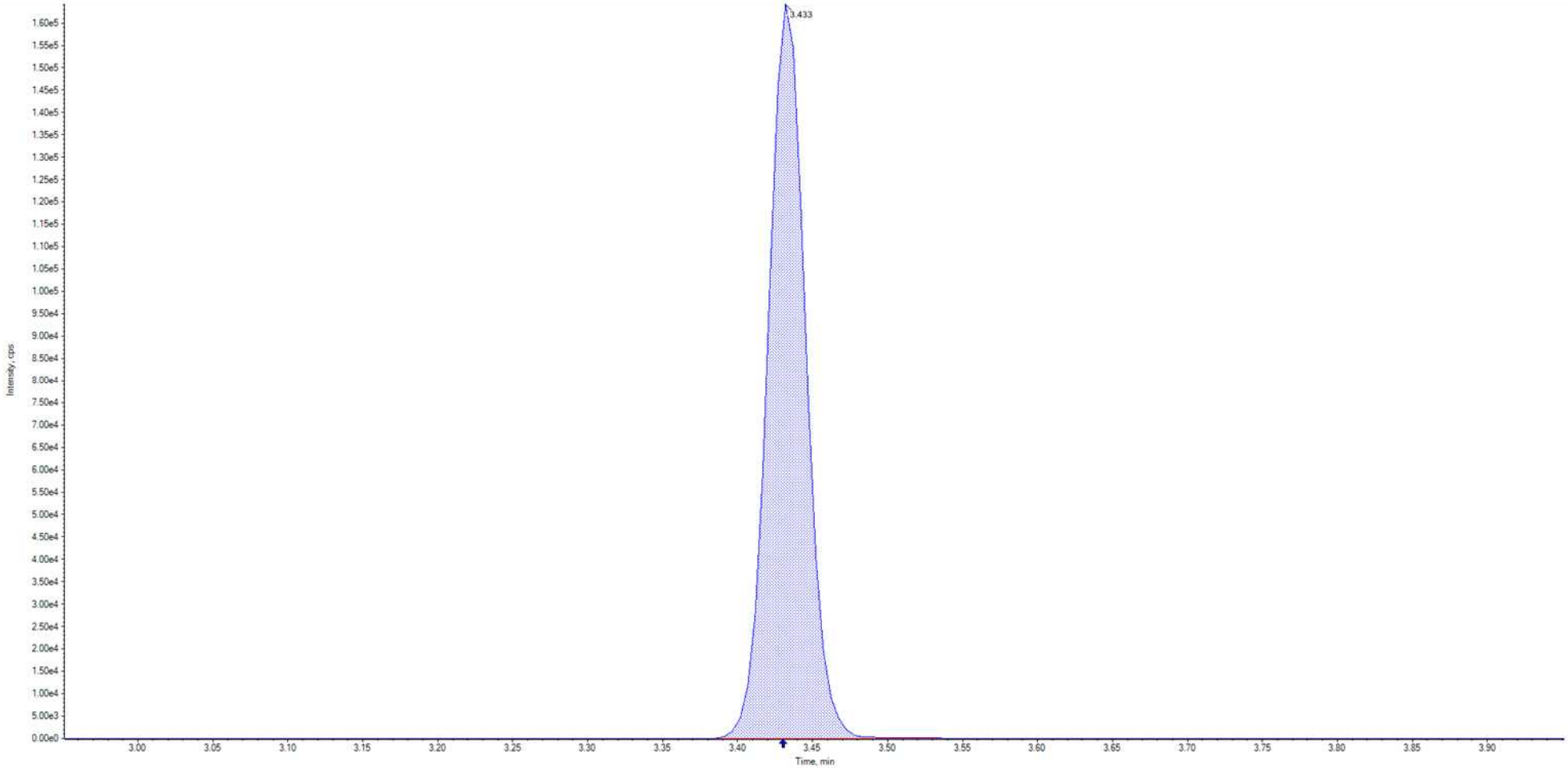


13C4-PFOA
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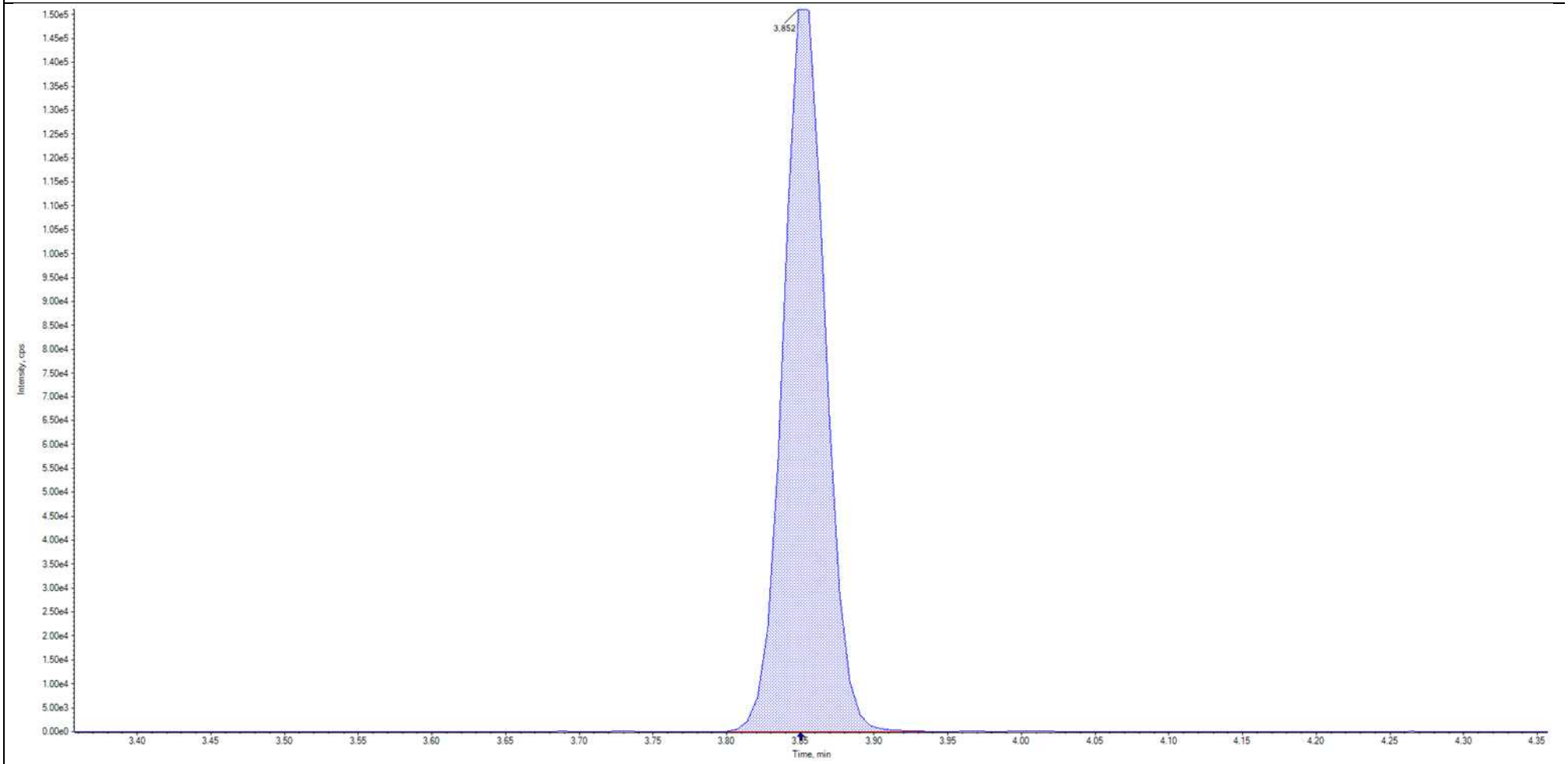


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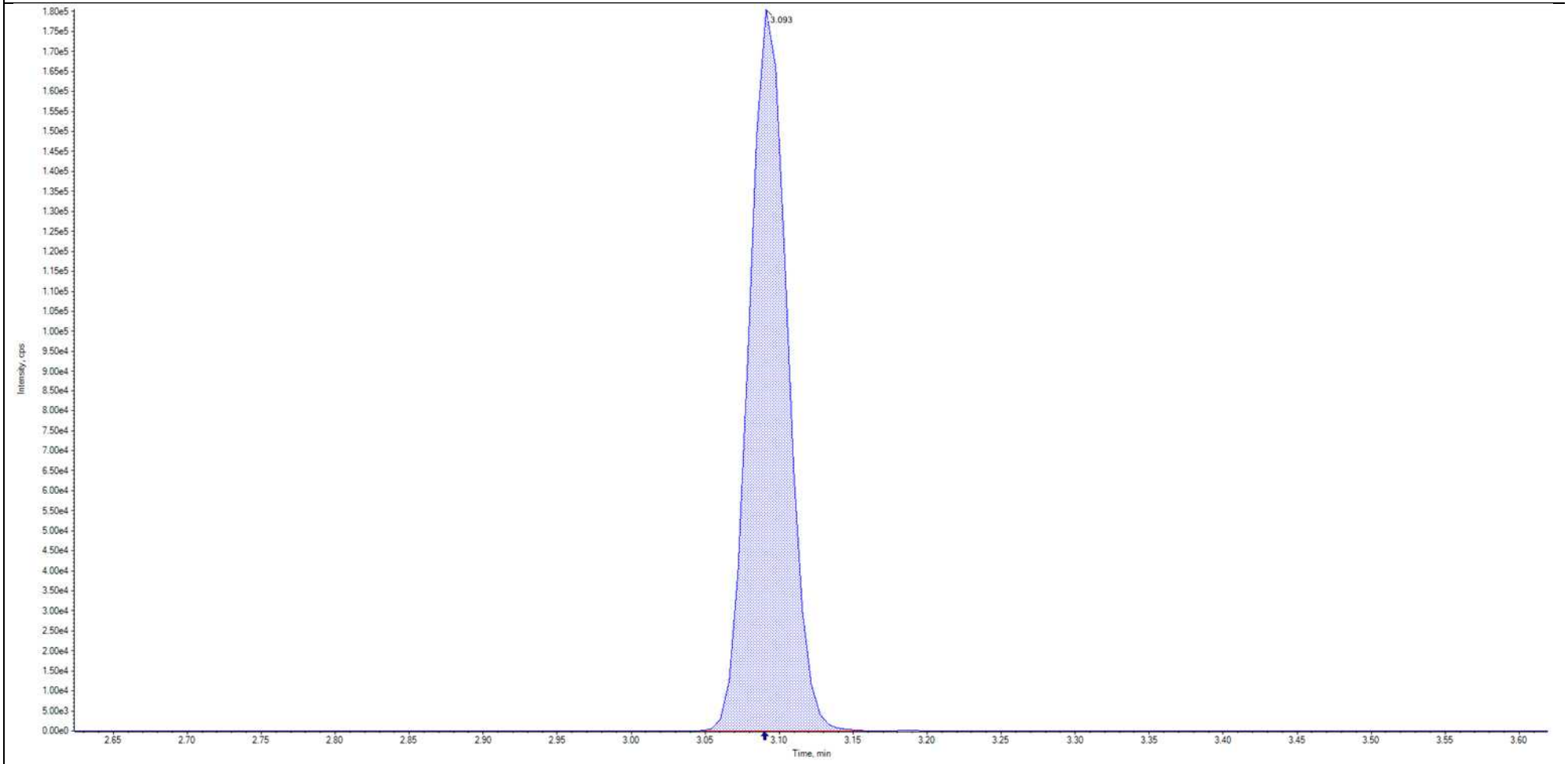
13C5-PFNA
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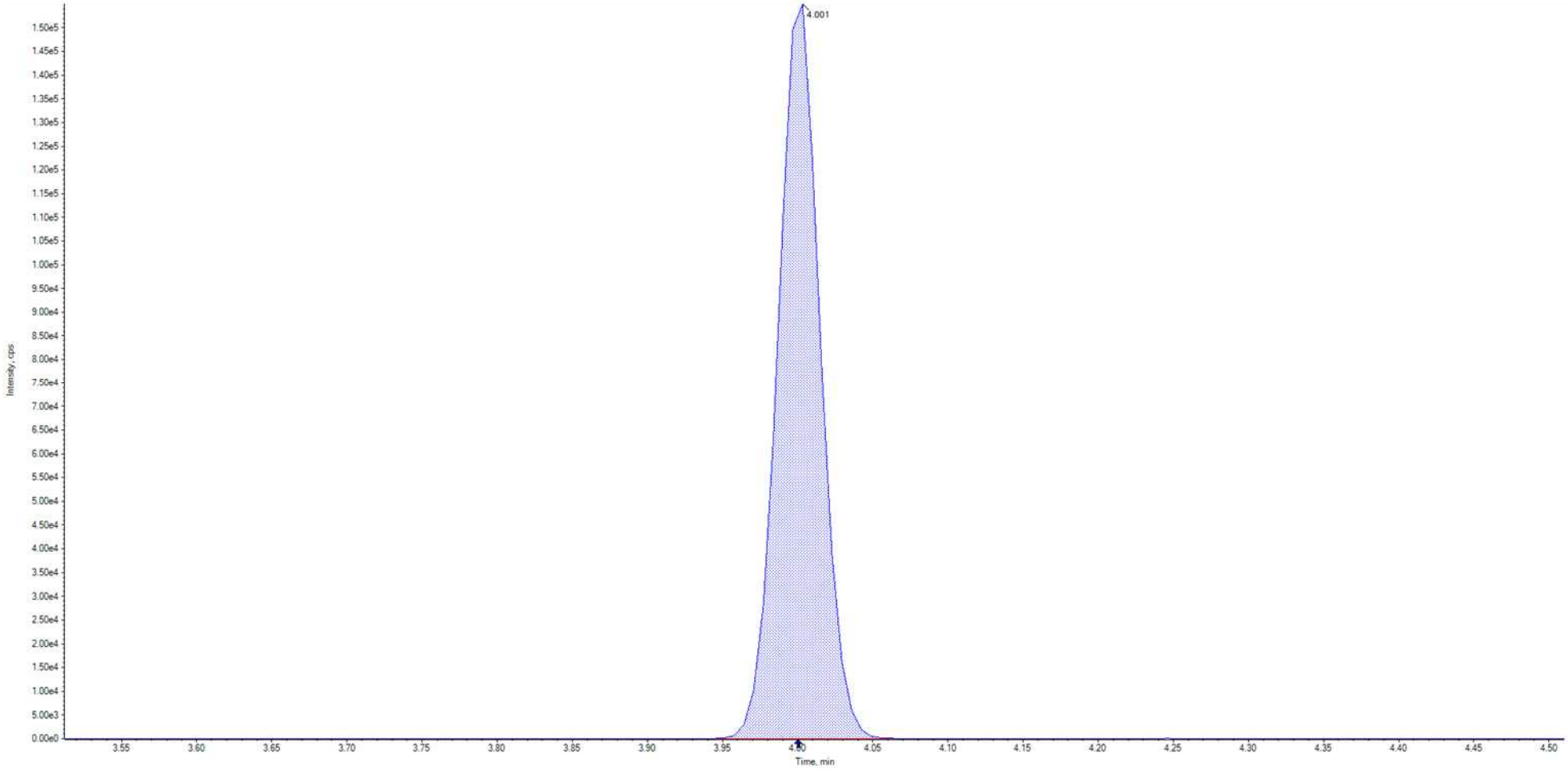
13C2-PFDA
Sample: IA1633STD-5



18O2-PFHxS
Sample: IA1633STD-5



13C4-PFOS
Sample: IA1633STD-5



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Calibration: 250303_1633_ICAL

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User: LCMS09:JW

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.59	213.0 / 169.0	7000230		50.900	N/A	N/A	N/A	101.8
2	PFPeA	2706-90-3	1.18	263.0 / 219.0	3385792		25.691	0.007	N/A	N/A	102.8
3	PFPeA_2	2706-90-3	1.18	263.0 / 68.9	23810		25.759	0.007	N/A	N/A	103.0
4	PFHxA	307-24-4	1.92	313.0 / 269.0	2055627		13.046	0.085	0.081	Pass	104.4
5	PFHxA_2	307-24-4	1.92	313.0 / 119.0	174678		13.039	0.085	0.081	Pass	104.3
6	PFHpA	375-85-9	2.49	363.1 / 319.0	2271101		13.751	0.410	0.373	Pass	110.0
7	PFHpA_2	375-85-9	2.49	363.1 / 169.0	931839		14.291	0.410	0.373	Pass	114.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	2.99	413.1 / 369.1	2251933	M5	11.547	0.440	0.424	Pass	92.4
9	PFOA_2	335-67-1	2.98	413.1 / 169.0	990389	M5	11.998	0.440	0.424	Pass	96.0
10	PFNA	375-95-1	3.43	462.8 / 418.9	1644711	M5	11.317	0.506	0.493	Pass	90.5
11	PFNA_2	375-95-1	3.43	462.8 / 219.0	831792	M5	11.754	0.506	0.493	Pass	94.0
12	PFDA	335-76-2	3.85	513.1 / 469.1	2393212		12.928	0.188	0.188	Pass	103.4
13	PFDA_2	335-76-2	3.85	513.1 / 219.0	450406		13.215	0.188	0.188	Pass	105.7
14	PFUnA	2058-94-8	4.25	563.1 / 519.1	2646158		13.066	0.143	0.146	Pass	104.5
15	PFUnA_2	2058-94-8	4.25	563.1 / 269.0	378054		12.989	0.143	0.146	Pass	103.9
16	PFDoA	307-55-1	4.64	613.1 / 569.1	2898158		12.778	0.135	0.142	Pass	102.2
17	PFDoA_2	307-55-1	4.64	613.1 / 319.0	390618		12.497	0.135	0.142	Pass	100.0
18	PFTrDA	72629-94-8	5.02	663.1 / 619.1	2502695		12.561	0.149	0.152	Pass	100.5
19	PFTrDA_2	72629-94-8	5.02	663.1 / 169.0	371983		12.156	0.149	0.152	Pass	97.3
20	PFTeDA	376-06-7	5.39	713.1 / 669.1	2116245		12.538	0.161	0.154	Pass	100.3
21	PFTeDA_2	376-06-7	5.39	713.1 / 169.0	340930		12.372	0.161	0.154	Pass	99.0
22	PFBS	375-73-5	1.92	299.1 / 80.1	1652384		10.752	0.384	0.374	Pass	96.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.92	299.1 / 99.1	634414		11.839	0.384	0.374	Pass	100.3
24	PFPeS	2706-91-4	2.56	349.1 / 80.1	1674196		11.271	0.308	0.314	Pass	95.5
25	PFPeS_2	2706-91-4	2.56	349.1 / 99.1	515363		11.050	0.308	0.314	Pass	93.6
26	PFHxS	355-46-4	3.09	399.1 / 80.1	1468749	M5	10.827	0.299	0.306	Pass	95.0
27	PFHxS_2	355-46-4	3.09	399.1 / 99.1	438951		11.175	0.299	0.306	Pass	98.0
28	PFHpS	375-92-8	3.56	449.1 / 80.1	1564690		12.517	0.299	0.316	Pass	105.2
29	PFHpS_2	375-92-8	3.56	449.1 / 99.1	467318		12.217	0.299	0.316	Pass	102.7
30	PFOS	1763-23-1	4.00	499.1 / 80.1	1724874	M5	11.344	0.249	0.244	Pass	97.8
31	PFOS_2	1763-23-1	3.99	499.1 / 99.1	428992	M5	11.229	0.249	0.244	Pass	96.8
32	PFNS	68259-12-1	4.41	549.1 / 80.1	1286807		12.429	0.291	0.294	Pass	103.6
33	PFNS_2	68259-12-1	4.41	549.1 / 99.1	374249		12.646	0.291	0.294	Pass	105.4
34	PFDS	335-77-3	4.80	599.1 / 80.1	1268050		12.467	0.284	0.290	Pass	103.0
35	PFDS_2	335-77-3	4.80	599.1 / 99.1	360471		12.550	0.284	0.290	Pass	103.7
36	PFDoS	79780-39-5	5.55	699.2 / 80.1	1153280		12.445	0.259	0.256	Pass	102.9
37	PFDoS_2	79780-39-5	5.55	699.2 / 99.1	298534		12.498	0.259	0.256	Pass	103.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.71	327.1 / 307.1	1557181		50.865	0.613	0.650	Pass	108.5
39	4:2FTS_2	757124-72-4	1.71	327.1 / 81.1	953826		48.273	0.613	0.650	Pass	102.9
40	6:2FTS	27619-97-2	2.80	427.2 / 407.2	1324969		45.265	0.619	0.620	Pass	95.1
41	6:2FTS_2	27619-97-2	2.80	427.2 / 81.1	819560		43.684	0.619	0.620	Pass	91.8
42	8:2FTS	39108-34-4	3.66	527.2 / 507.2	1088274		47.930	0.685	0.676	Pass	99.9
43	8:2FTS_2	39108-34-4	3.66	527.2 / 81.1	745877		47.720	0.685	0.676	Pass	99.4
44	PFOSA	754-91-6	5.23	498.1 / 78.1	2139399	M5	12.508	0.024	0.026	Pass	100.1
45	PFOSA_2	754-91-6	5.23	498.1 / 478.0	51685	M5	11.697	0.024	0.026	Pass	93.6
46	NMeFOSA	31506-32-8	5.97	512.2 / 219.0	541857	M5	12.759	1.401	1.377	Pass	102.1
47	NMeFOSA_2	31506-32-8	5.93	512.2 / 169.0	759297	M5	12.867	1.401	1.377	Pass	102.9
48	NEtFOSA	4151-50-2	6.27	526.2 / 219.0	532096		12.580	1.265	1.292	Pass	100.6
49	NEtFOSA_2	4151-50-2	6.23	526.2 / 169.0	673101		12.754	1.265	1.292	Pass	102.0
50	NMeFOSAA	2355-31-9	3.97	570.2 / 419.1	291267		12.512	0.692	0.697	Pass	100.1
51	NMeFOSAA_2	2355-31-9	3.97	570.2 / 483.0	201561		12.051	0.692	0.697	Pass	96.4
52	NEtFOSAA	2991-50-6	4.19	584.2 / 419.1	275571	M5	12.075	0.576	0.557	Pass	96.6

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.19	584.2 / 526.2	158643	M5	12.611	0.576	0.557	Pass	100.9
54	NMeFOSE	24448-09-7	5.84	616.1 / 58.9	7981840	M5	127.131	N/A	N/A	N/A	101.7
55	NEtFOSE	1691-99-2	6.13	630.0 / 58.9	11142098	M5	127.199	N/A	N/A	N/A	101.8
56	HFPO-DA	13252-13-6	2.13	285.0 / 169.0	7141362		52.425	0.536	0.501	Pass	104.9
57	HFPO-DA_2	13252-13-6	2.13	285.0 / 184.9	3825894		53.270	0.536	0.501	Pass	106.5
58	ADONA	919005-14-4	2.68	376.9 / 251.0	12920958		53.080	0.616	0.691	Pass	112.3
59	ADONA_2	919005-14-4	2.68	376.9 / 84.8	7952884		49.313	0.616	0.691	Pass	104.4
60	9Cl-PF3ONS	756426-58-1	4.28	530.8 / 351.1	12541430		48.400	0.342	0.332	Pass	103.6
61	9Cl-PF3ONS_2	756426-58-1	4.28	532.8 / 353.0	4283660		49.735	0.342	0.332	Pass	106.5
62	11Cl-PF3OUdS	763051-92-9	5.07	630.9 / 451.0	10793343		49.258	0.322	0.322	Pass	104.4
63	11Cl-PF3OUdS_2	763051-92-9	5.07	632.9 / 452.9	3470998		49.350	0.322	0.322	Pass	104.6
64	3:3FTCA	356-02-5	1.56	241.1 / 177.1	667027		65.547	0.967	1.010	Pass	104.9
65	3:3FTCA_2	356-02-5	1.56	241.1 / 117.0	644827		58.357	0.967	1.010	Pass	93.4
66	5:3FTCA	914637-49-3	3.03	341.1 / 237.1	13302452		337.637	1.047	1.017	Pass	108.0
67	5:3FTCA_2	914637-49-3	3.03	341.1 / 217.0	13929104		350.884	1.047	1.017	Pass	112.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.05	441.1 / 316.9	11466526		290.703	1.311	1.343	Pass	93.0
69	7:3FTCA_2	812-70-4	4.05	441.1 / 337.1	15032155		288.298	1.311	1.343	Pass	92.3
70	PFEESA	113507-82-7	2.22	315.1 / 135.0	9656667		23.584	0.080	0.081	Pass	105.8
71	PFEESA_2	113507-82-7	2.22	315.1 / 82.9	771227		22.901	0.080	0.081	Pass	102.7
72	PFMPA	377-73-1	0.75	229.0 / 85.0	3563990		24.775	N/A	N/A	N/A	99.1
73	PFMBA	863090-89-5	1.44	279.0 / 85.0	3833878		25.416	N/A	N/A	N/A	101.7
74	NFDHA	151772-58-6	1.84	295.0 / 201.0	2706957		25.257	0.757	0.681	Pass	101.0
75	NFDHA_2	151772-58-6	1.84	295.0 / 84.9	2048502		27.006	0.757	0.681	Pass	108.0
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	1.70	333.2 / 312.1	140144		5.528	N/A	N/A	N/A	110.6
79	13C2-PFOA	Surr	2.98	415.0 / 370.0	321115		2.345	N/A	N/A	N/A	93.8

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.59	217.0 / 172.0	1538900		9.454	NA	NA	NA	94.5

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C5-PFPeA	EIS	1.18	268.0 / 223.0	686638		4.843	NA	NA	NA	96.9
13C5-PFHxA	EIS	1.91	318.0 / 273.0	307593		2.308	NA	NA	NA	92.3
13C4-PFHpA	EIS	2.49	367.0 / 322.0	284423		2.212	NA	NA	NA	88.5
13C8-PFOA	EIS	2.98	420.8 / 376.0	570430		2.317	NA	NA	NA	92.7
13C9-PFNA	EIS	3.42	472.0 / 427.0	269414		1.304	NA	NA	NA	104.4
13C6-PFDA	EIS	3.84	519.0 / 474.0	261727		1.125	NA	NA	NA	90.0
13C7-PFUnA	EIS	4.25	570.0 / 525.0	298986		1.165	NA	NA	NA	93.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.64	615.1 / 570.0	300013		1.162	NA	NA	NA	93.0
	13C2-PFTeDA	EIS	5.39	715.1 / 670.1	185641		1.109	NA	NA	NA	88.7
	13C3-PFBS	EIS	1.91	302.1 / 80.1	337061		2.344	NA	NA	NA	100.6
	13C3-PFHxS	EIS	3.08	402.1 / 80.1	310424		2.429	NA	NA	NA	102.5
	13C8-PFOS	EIS	3.99	507.1 / 80.1	318962		2.184	NA	NA	NA	91.0
	13C2-4:2FTS	EIS	1.71	329.1 / 81.1	93285		4.399	NA	NA	NA	93.8
	13C2-6:2FTS	EIS	2.80	429.2 / 81.1	86619		4.744	NA	NA	NA	99.7
	13C2-8:2FTS	EIS	3.66	529.2 / 81.1	81905		4.431	NA	NA	NA	92.3

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.23	506.1 / 78.1	534011		2.303	NA	NA	NA	92.1
d3-NMeFOSA	EIS	5.96	515.2 / 219.0	94719		2.262	NA	NA	NA	90.5
d5-NEtFOSA	EIS	6.25	531.2 / 219.0	86793		2.279	NA	NA	NA	91.2
d3-NMeFOSAA	EIS	3.97	573.2 / 419.1	128047		4.469	NA	NA	NA	89.4
d5-NEtFOSAA	EIS	4.18	589.3 / 419.1	105261		4.597	NA	NA	NA	91.9
d7-NMeFOSE	EIS	5.81	623.2 / 58.9	692857		23.003	NA	NA	NA	92.0
d9-NEtFOSE	EIS	6.11	639.2 / 58.9	927289		22.949	NA	NA	NA	91.8

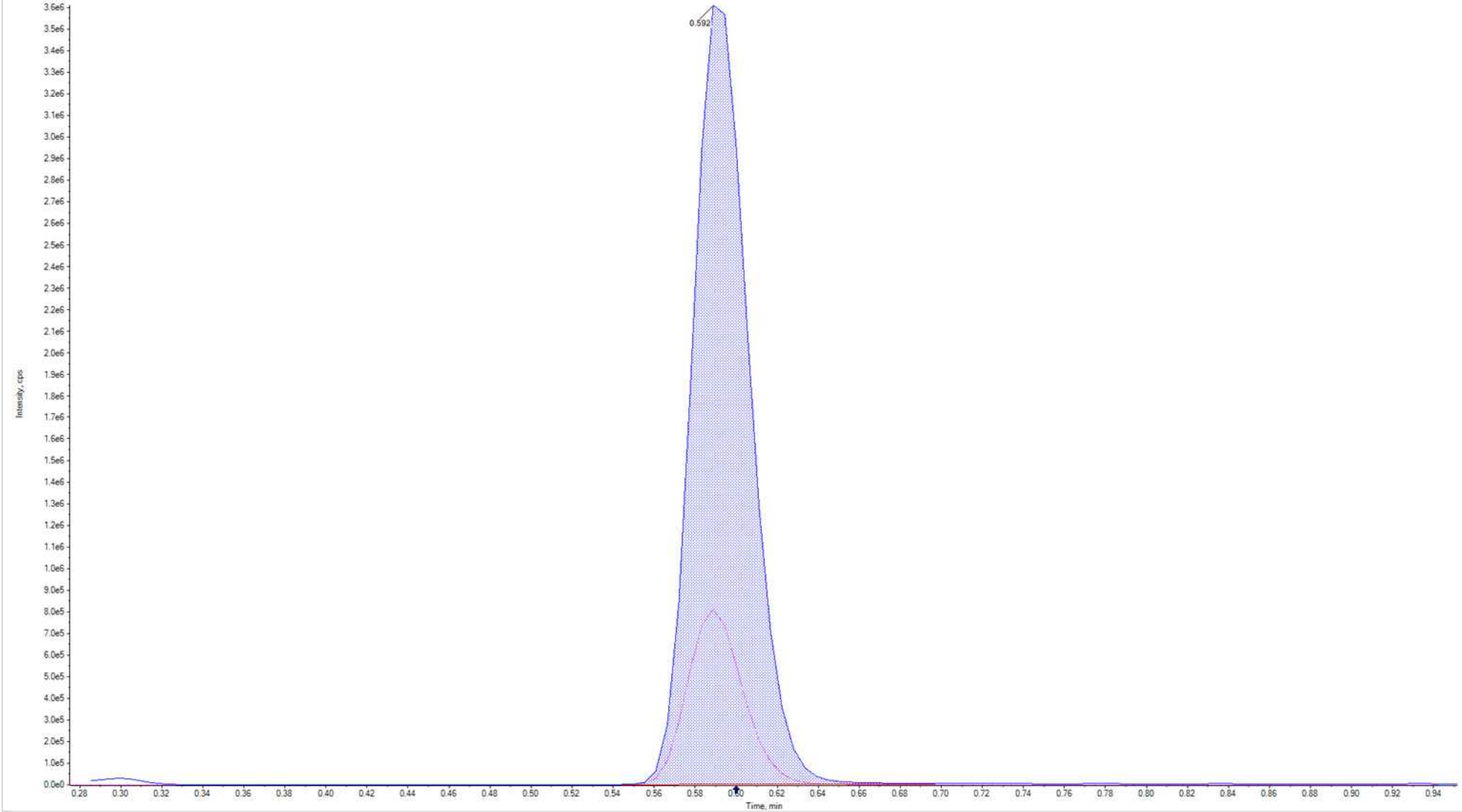
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	13C3-HFPO-DA	EIS	2.12	287.0 / 169.0	1344147		9.534	NA	NA	NA	95.3
	13C3-PFBA	NIS	0.59	216.0 / 172.0	720236		4.969	NA	NA	NA	99.4
	13C2-PFHxA	NIS	1.91	315.0 / 270.0	392485		2.422	NA	NA	NA	96.9
	13C4-PFOA	NIS	2.98	417.0 / 372.0	374183		2.603	NA	NA	NA	104.1
	13C5-PFNA	NIS	3.42	468.0 / 423.0	258701		1.255	NA	NA	NA	100.4
	13C2-PFDA	NIS	3.84	515.1 / 470.1	271458		1.277	NA	NA	NA	102.1
	18O2-PFHxS	NIS	3.09	403.1 / 84.1	268756		2.283	NA	NA	NA	96.3
	13C4-PFOS	NIS	3.99	503.1 / 80.1	293863		2.444	NA	NA	NA	101.9

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

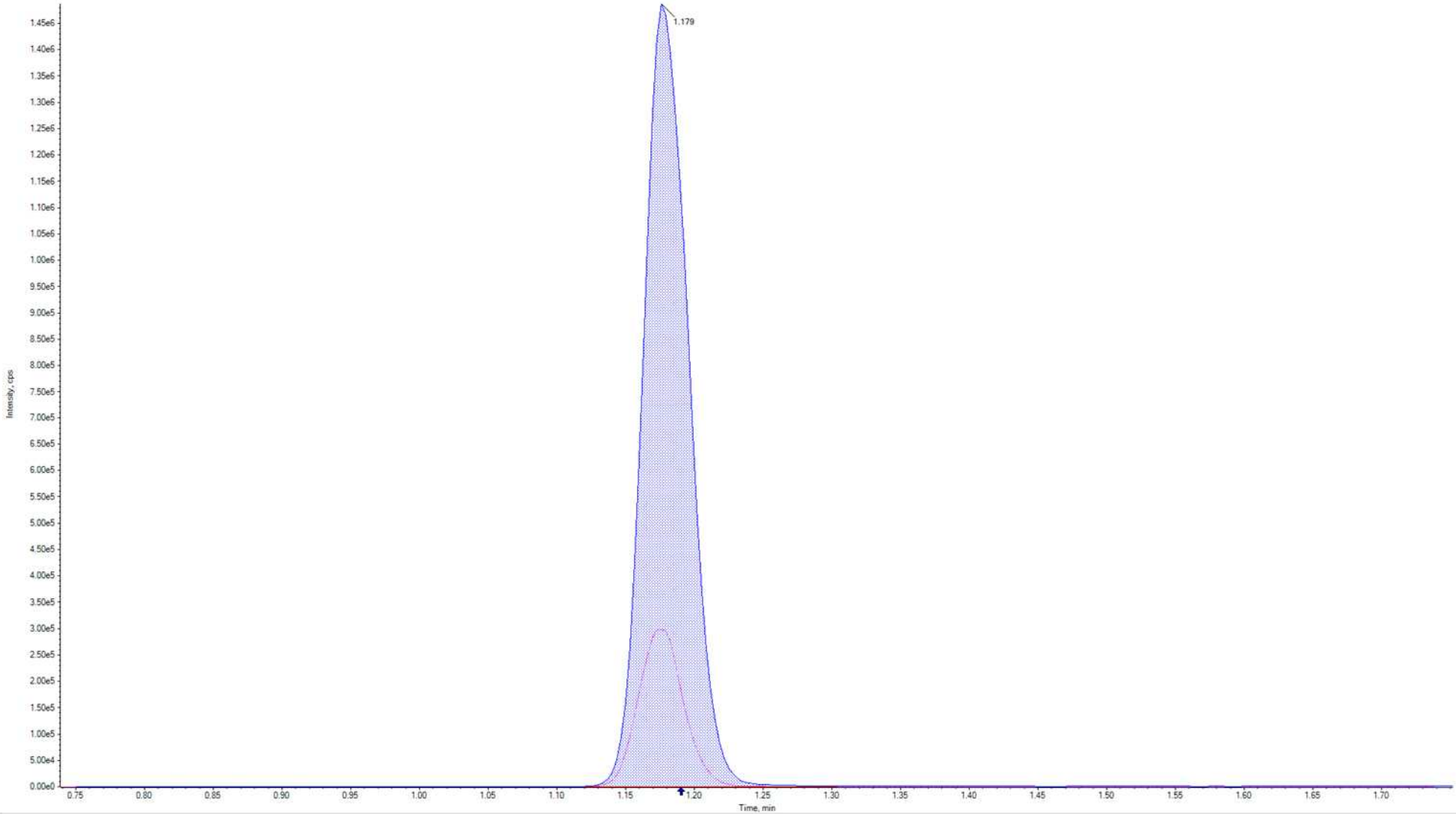
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PFBA
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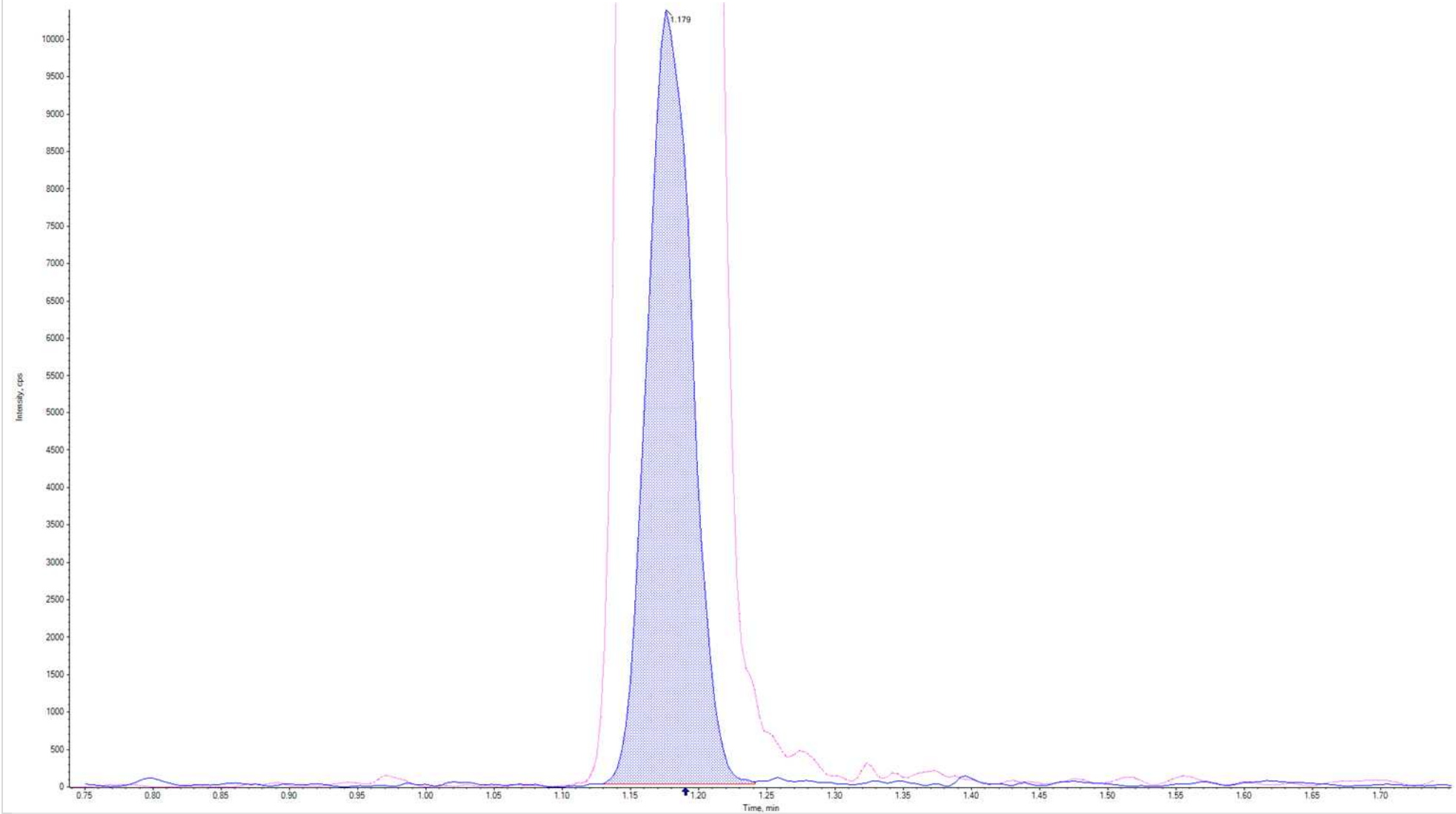
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PFPeA
Sample: IA1633STD-12.5 S/N:7843.5 Points Across peak:57



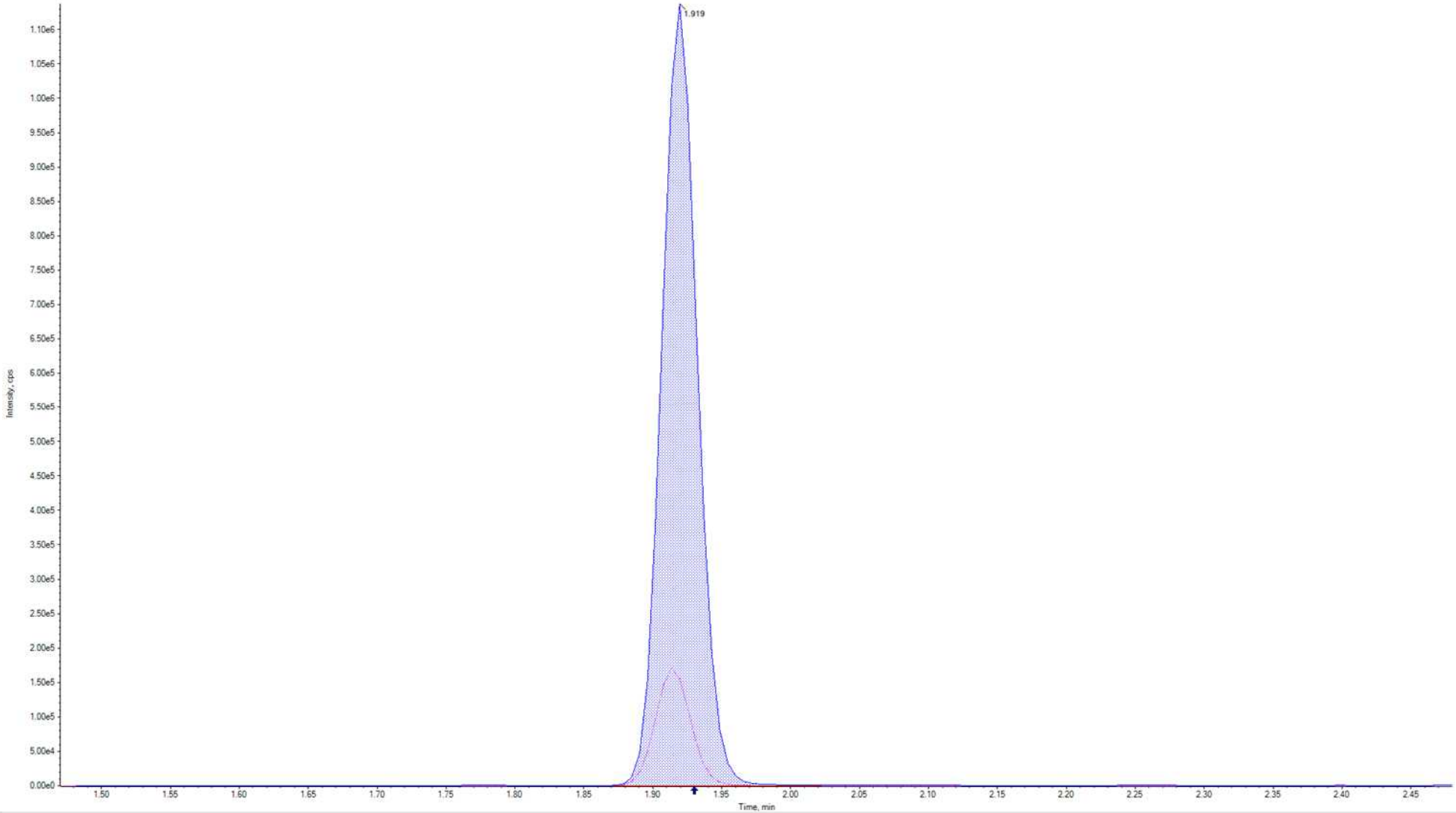
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFPeA_2
Sample: IA1633STD-12.5 S/N:623.1 Points Across peak:36



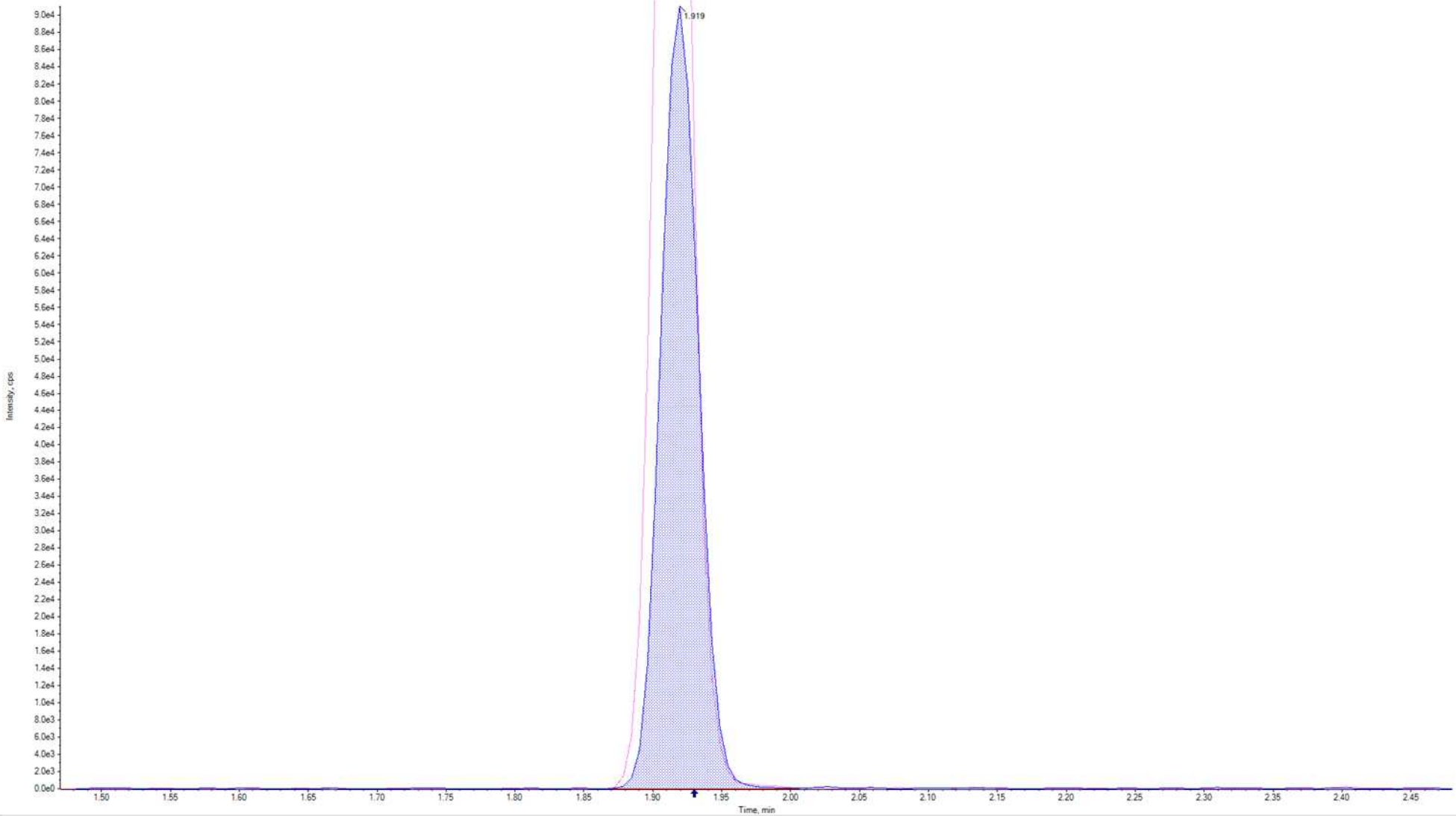
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Alpha Analytical LLC
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PFHxA
Sample: IA1633STD-12.5 S/N:10853.4 Points Across peak:30



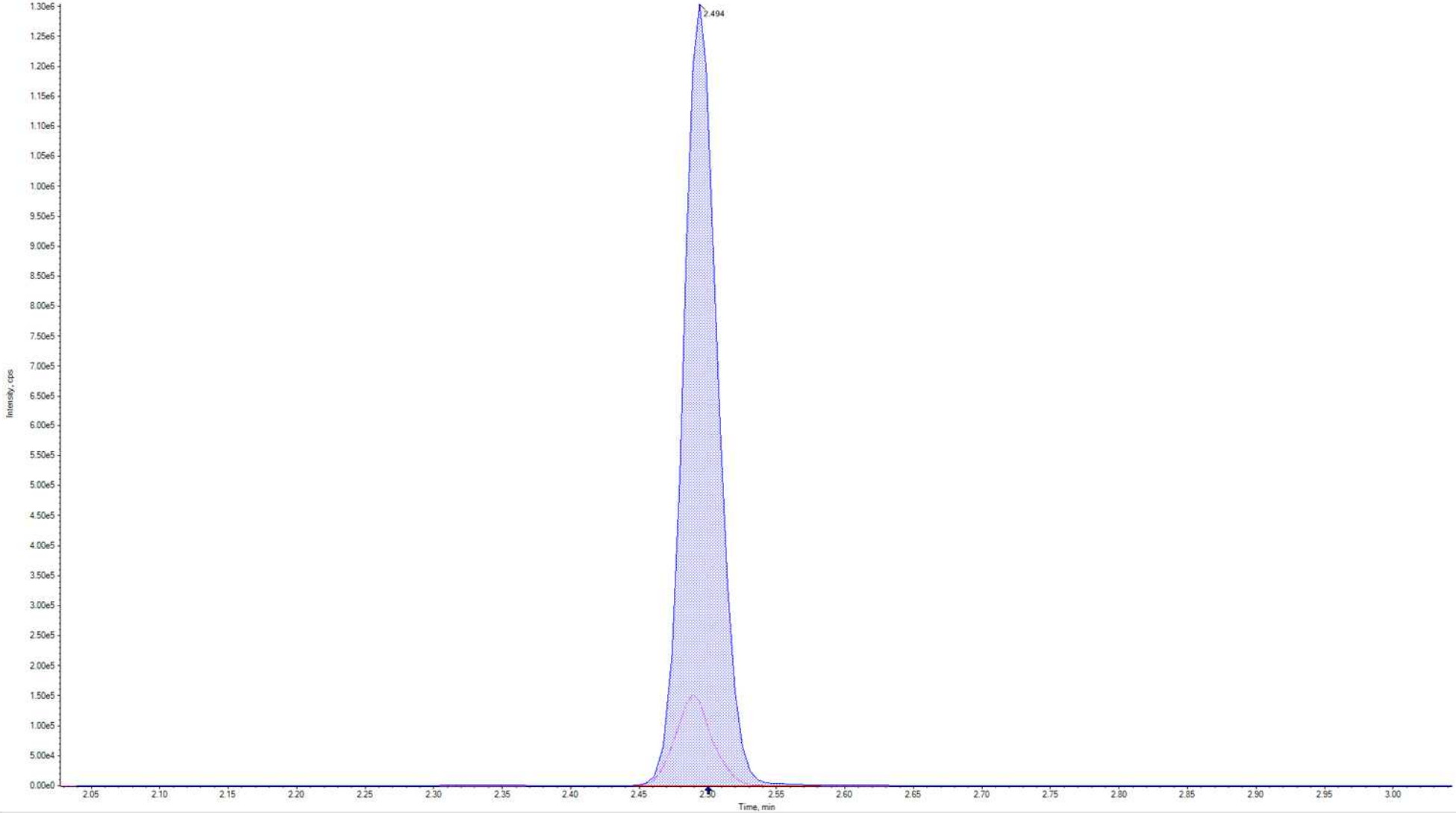
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFHxA_2
Sample: IA1633STD-12.5 S/N:2282.2 Points Across peak:26



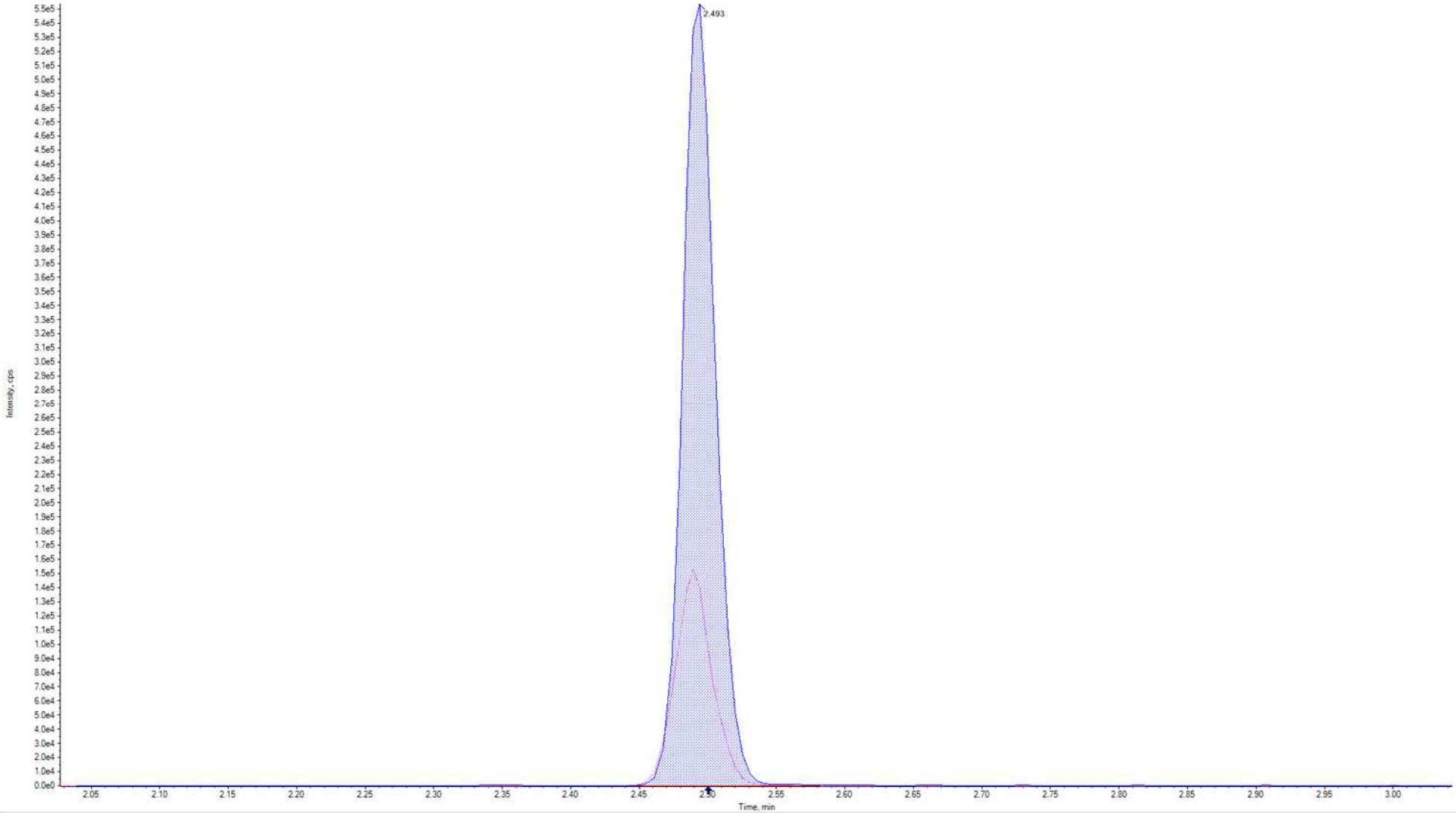
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFHpA
Sample: IA1633STD-12.5 S/N:8674.8 Points Across peak:29



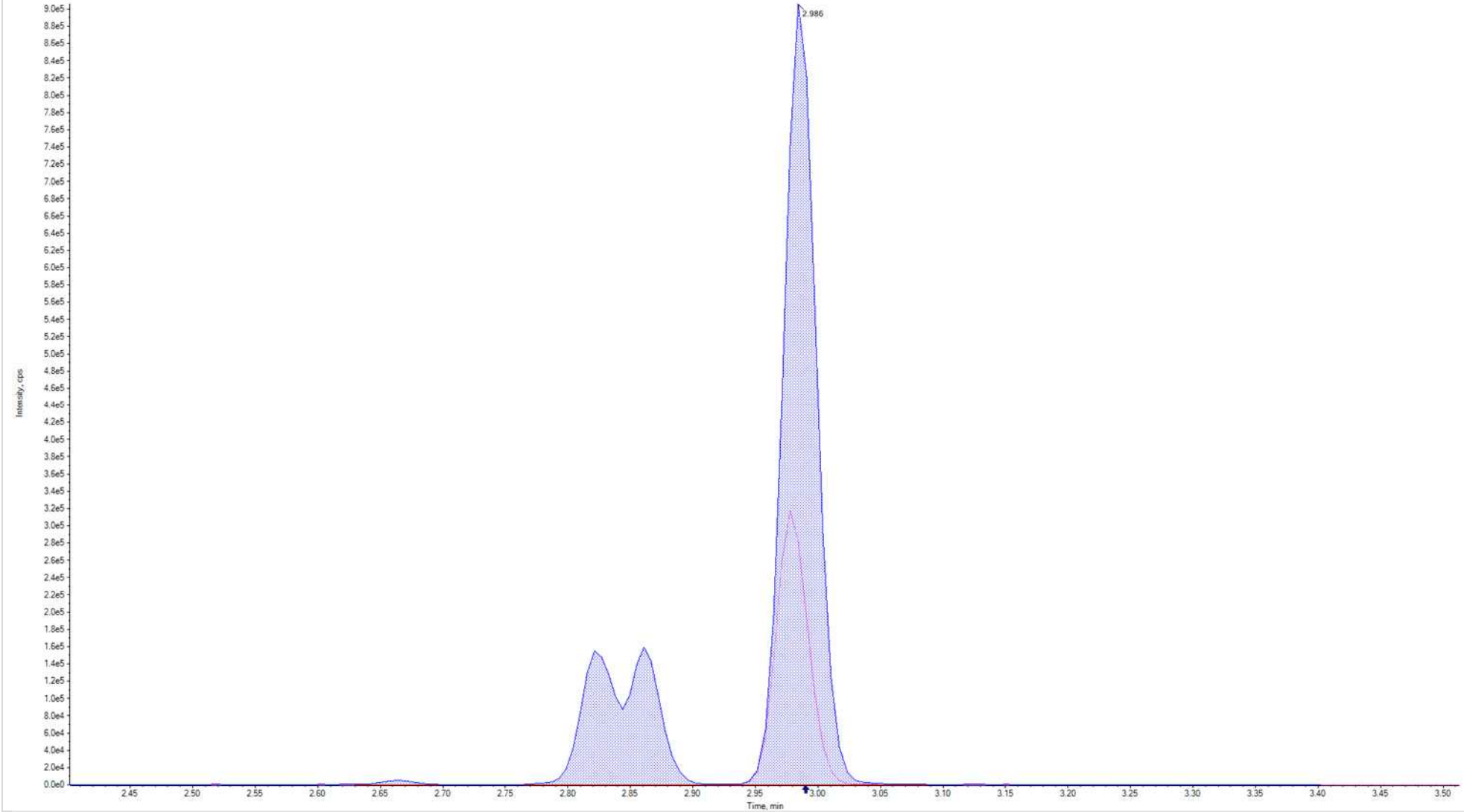
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Alpha Analytical LLC
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PFHpA_2
Sample: IA1633STD-12.5 S/N:11100.3 Points Across peak:27



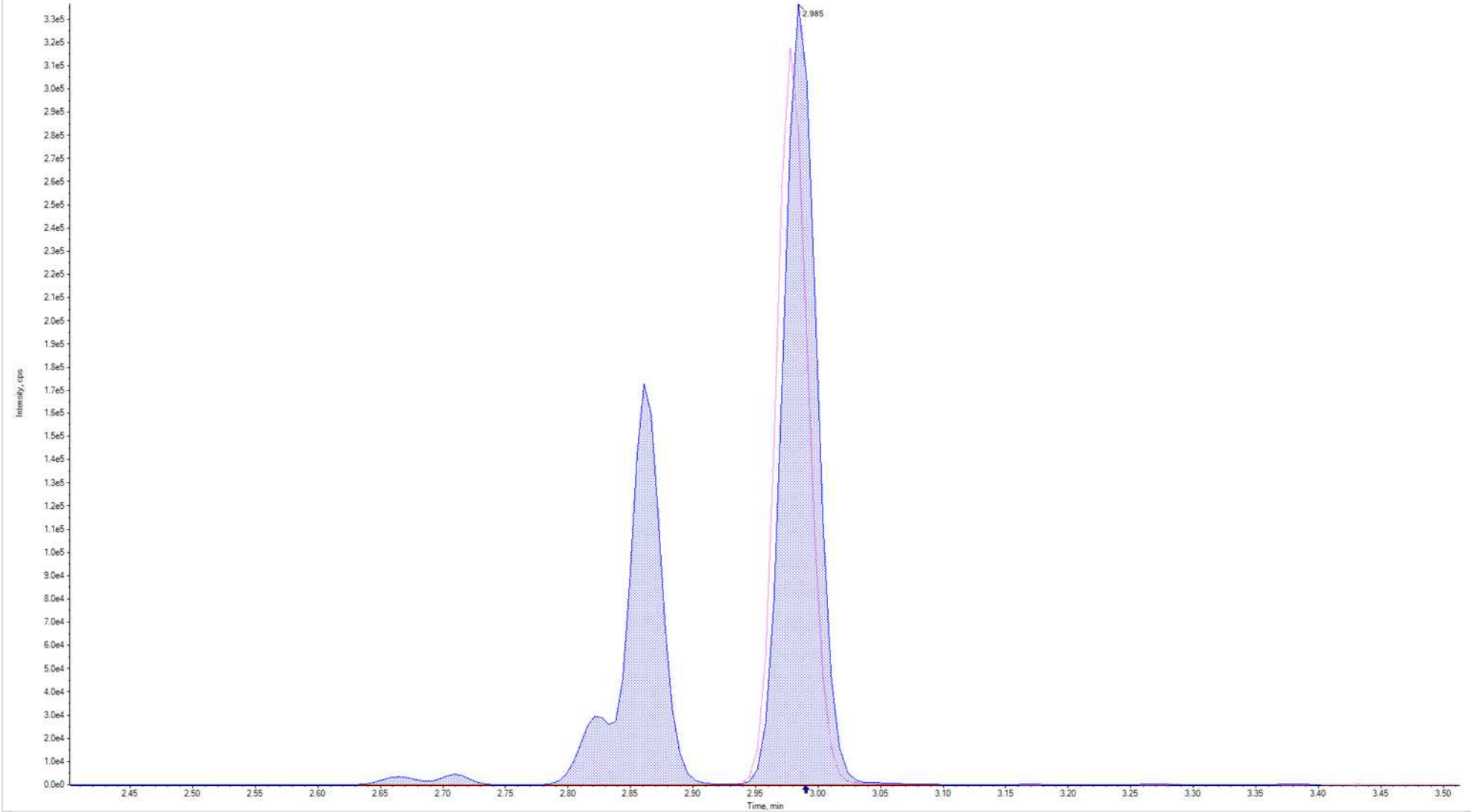
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Alpha Analytical LLC
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PFOA
Sample: IA1633STD-12.5 S/N:832.5 Points Across peak:79



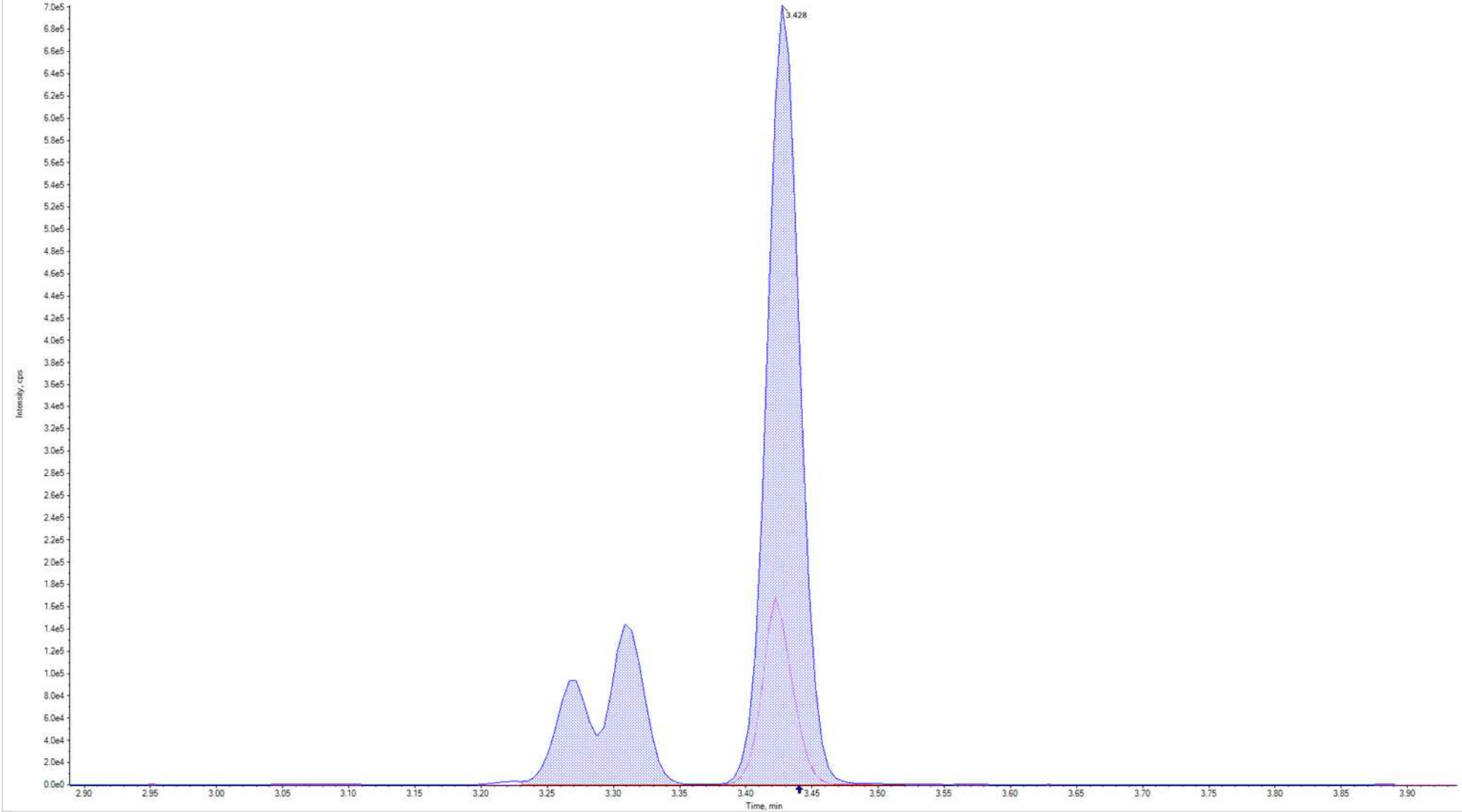
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Alpha Analytical LLC
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PFOA_2
Sample: IA1633STD-12.5 S/N:478.6 Points Across peak:80



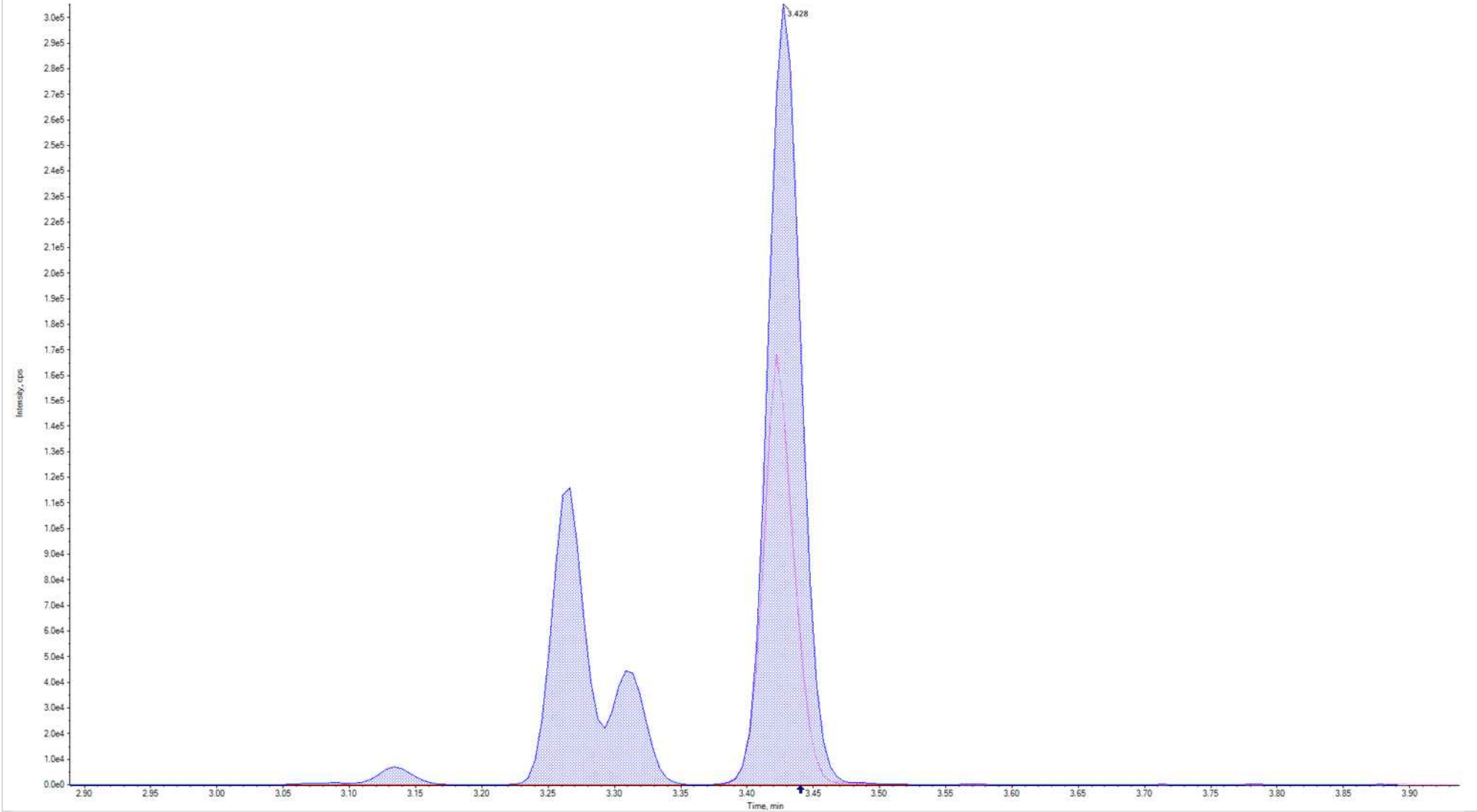
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Alpha Analytical LLC
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PFNA
Sample: IA1633STD-12.5 S/N:777.5 Points Across peak:57



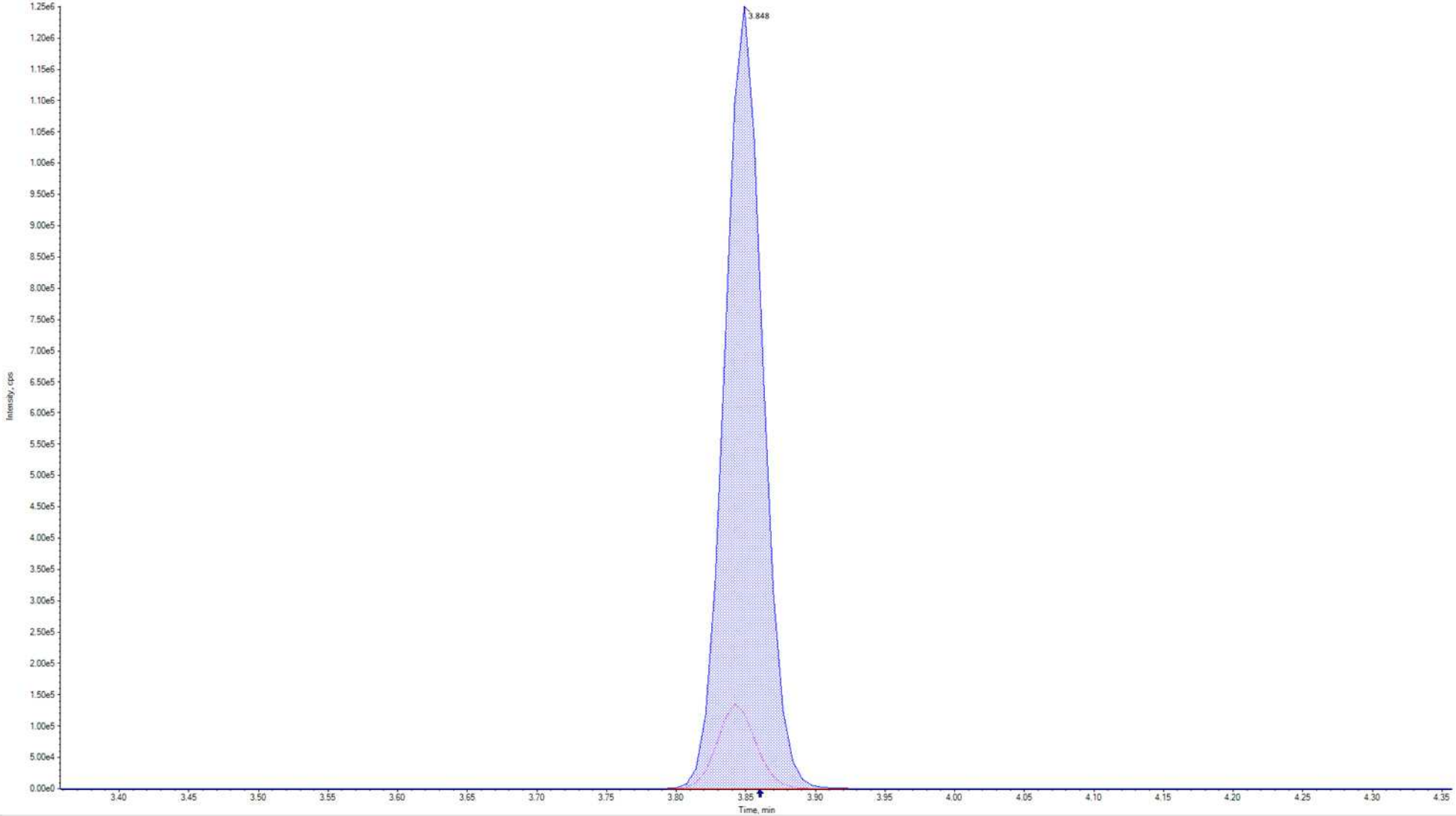
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFNA_2
Sample: IA1633STD-12.5 S/N:494.1 Points Across peak:91



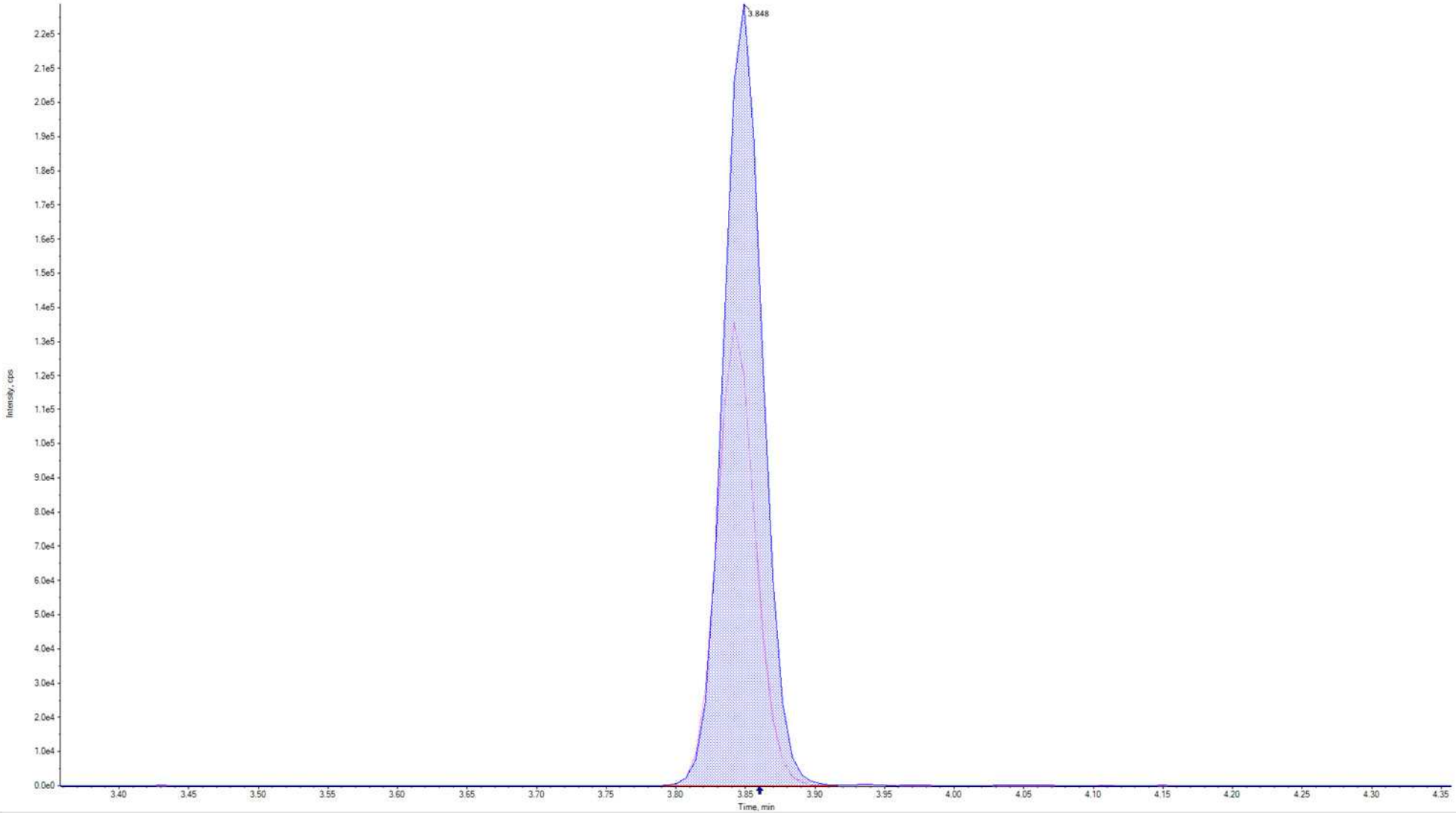
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Alpha Analytical LLC
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PFDA
Sample: IA1633STD-12.5 S/N:25083.7 Points Across peak:30



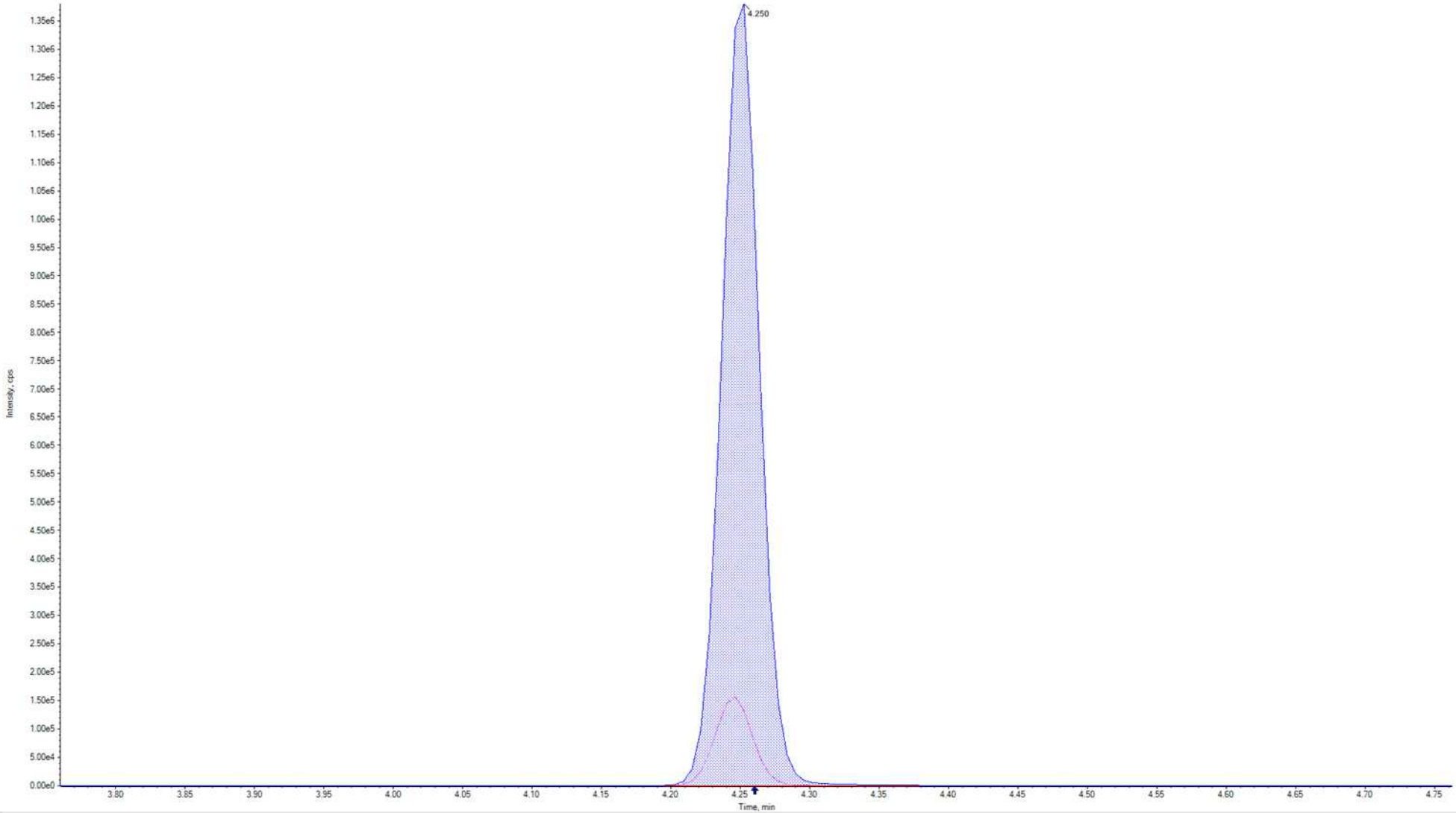
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PFDA_2
Sample: IA1633STD-12.5 S/N:4554.7 Points Across peak:24



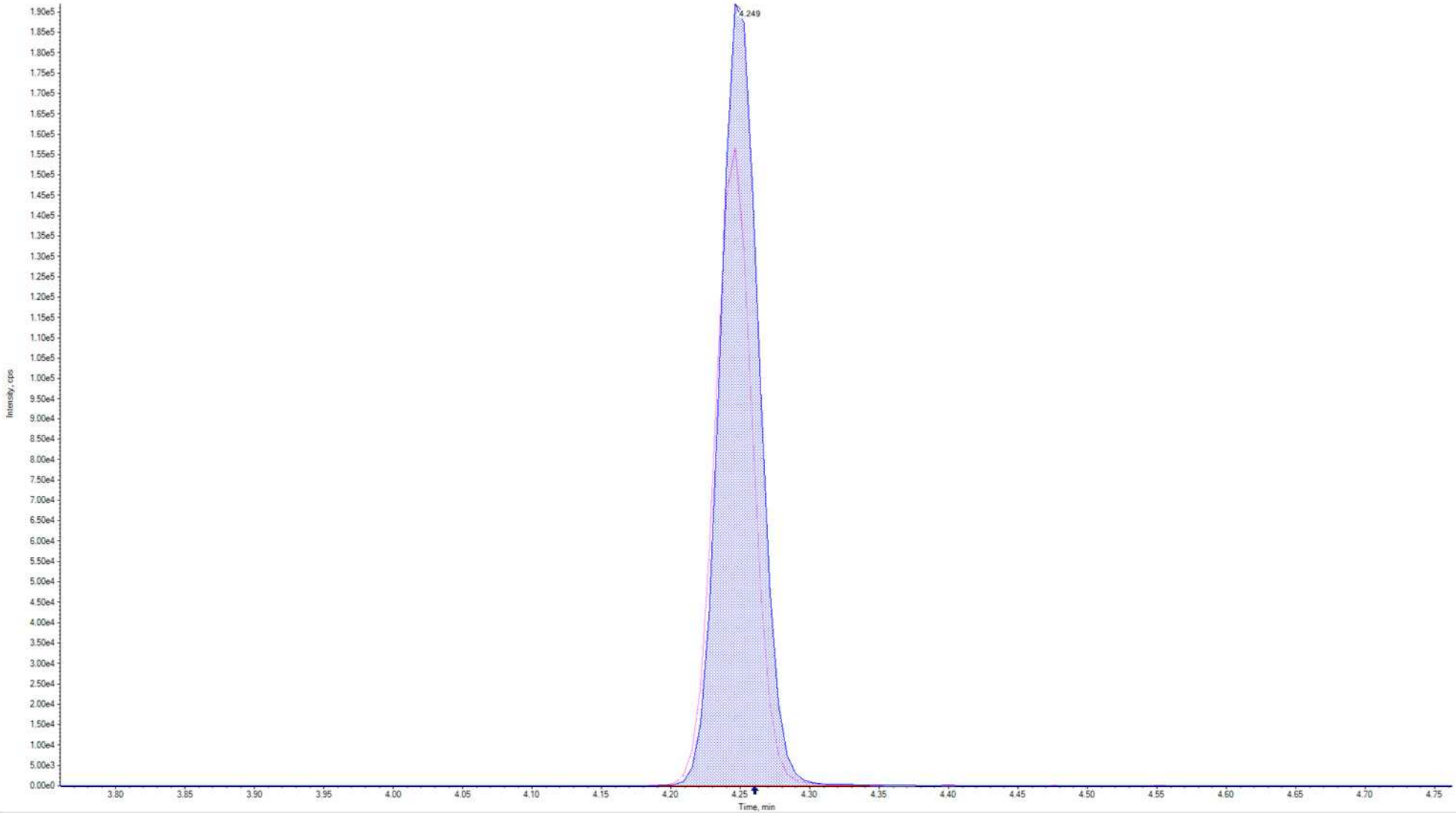
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Alpha Analytical LLC
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PFUnA
Sample: IA1633STD-12.5 S/N:31127.9 Points Across peak:35



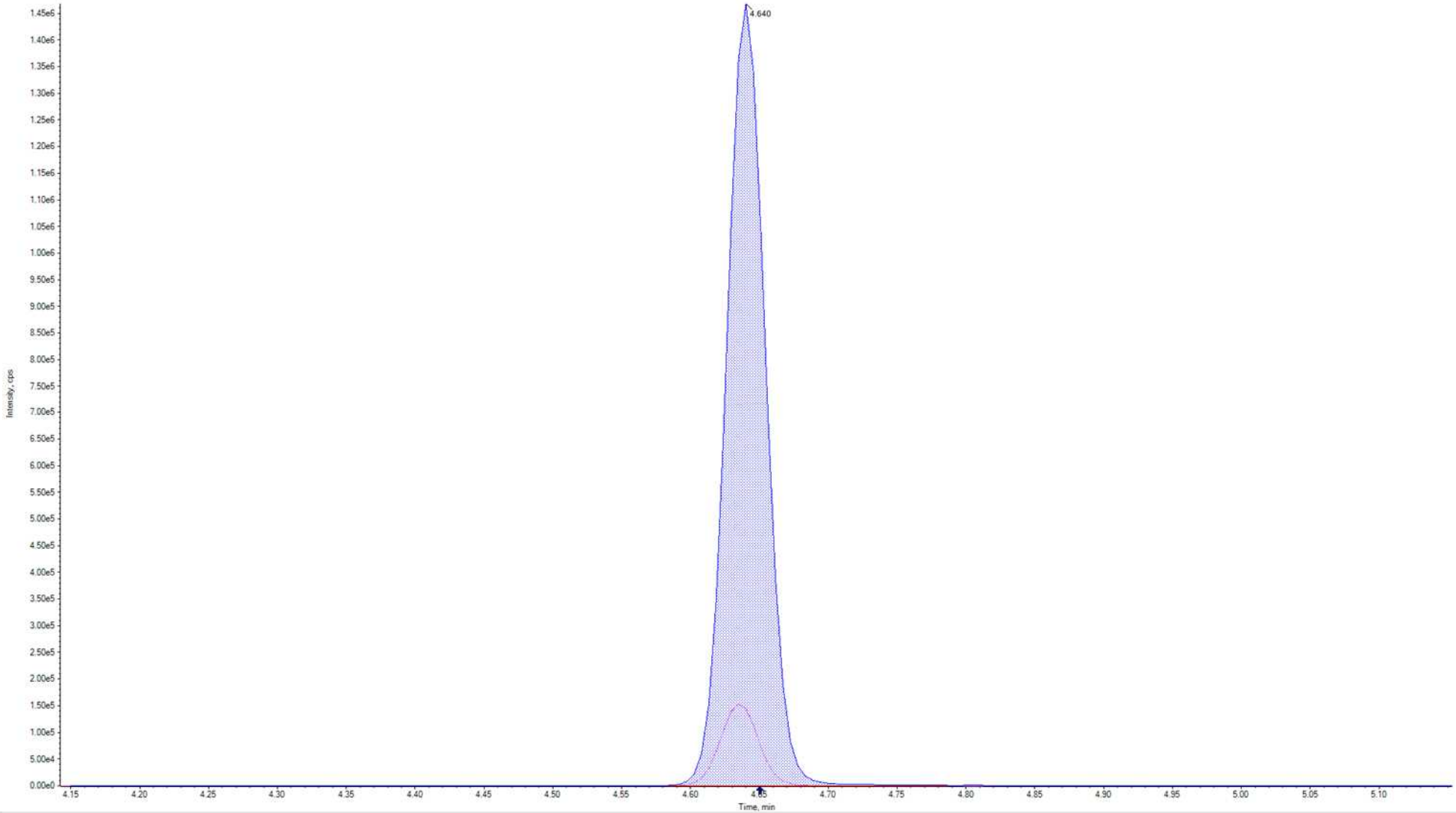
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PFUnA_2
Sample: IA1633STD-12.5 S/N:4331.0 Points Across peak:32



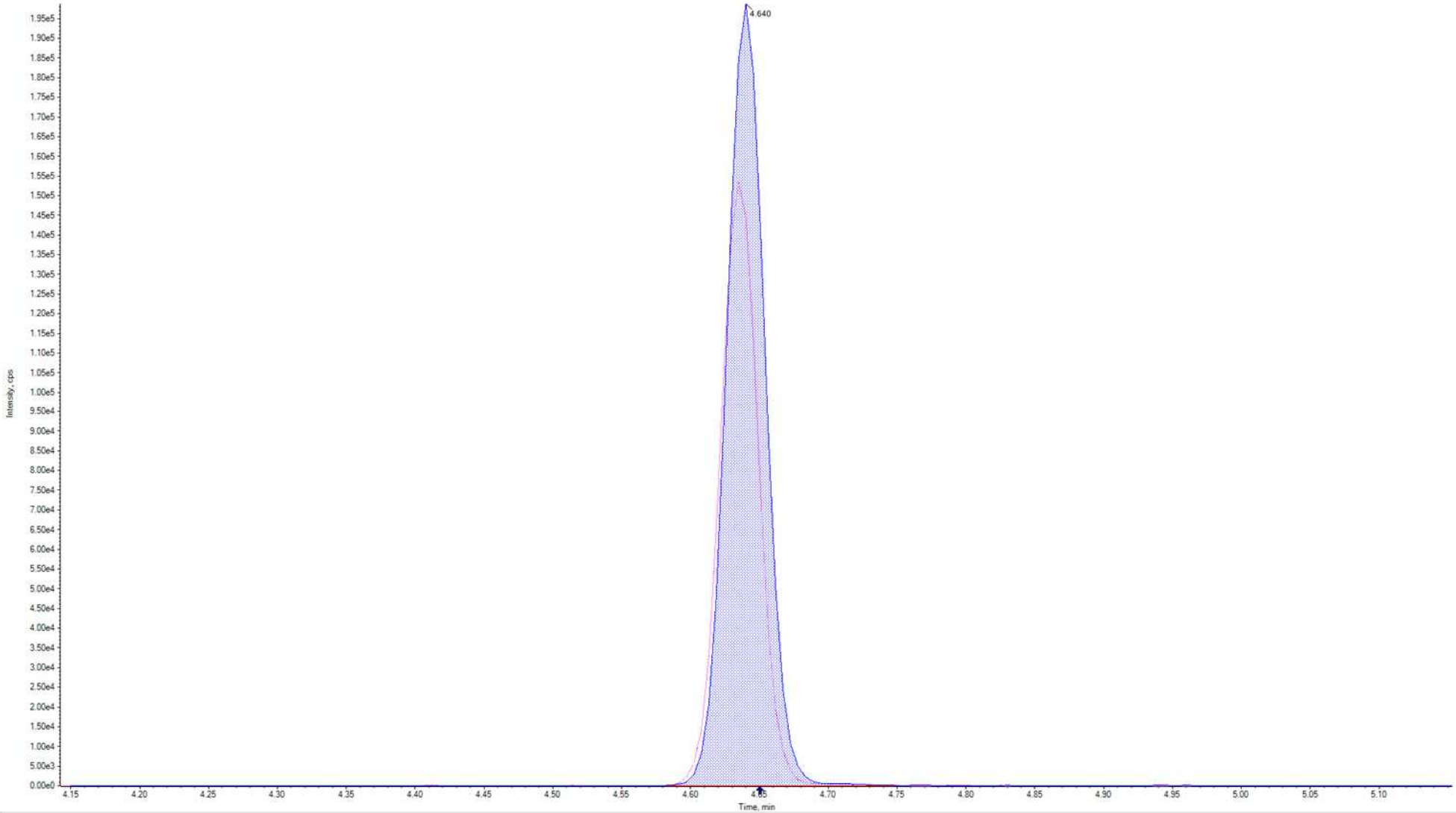
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PFDoA
Sample: IA1633STD-12.5 S/N:19054.7 Points Across peak:43



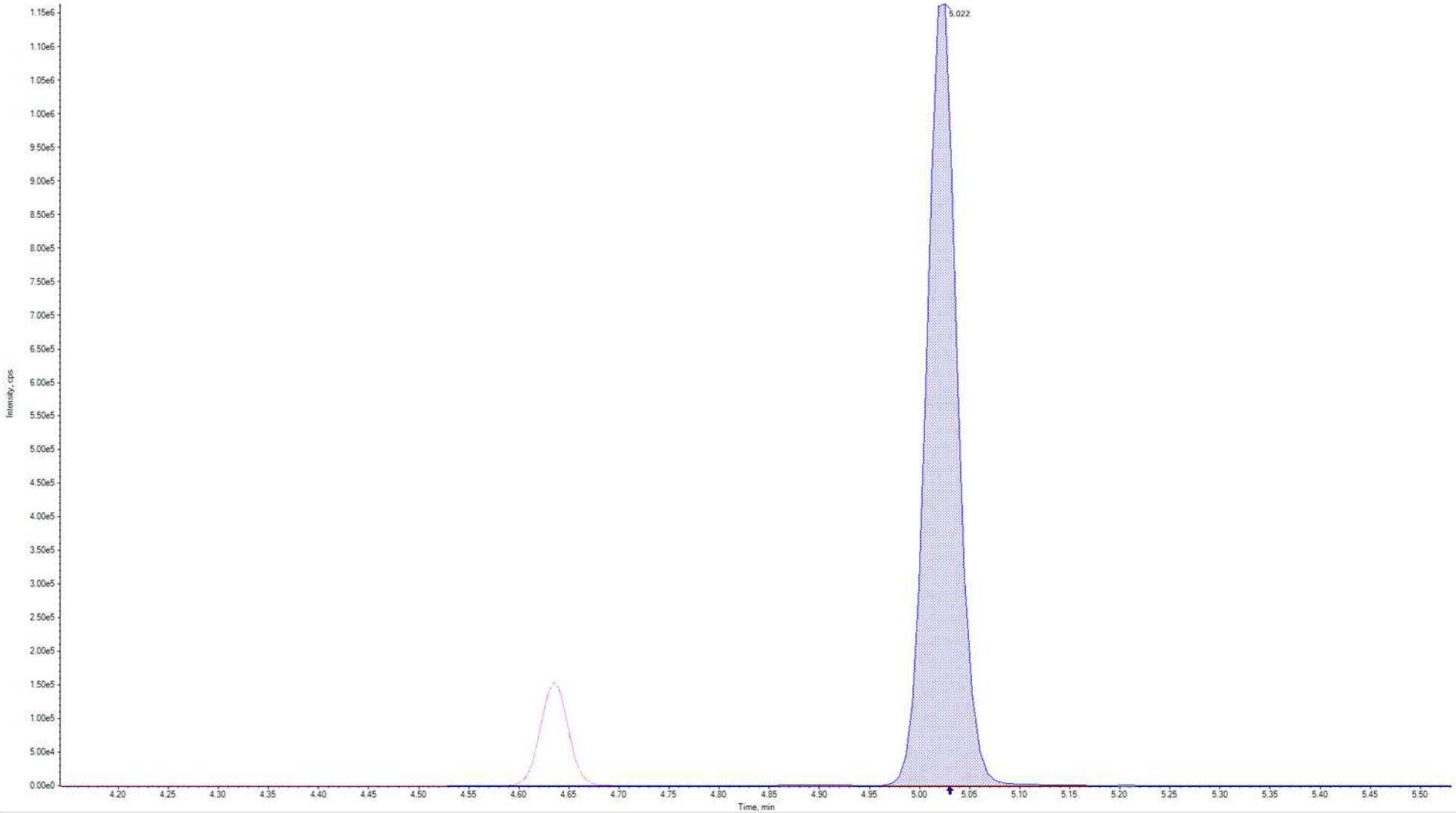
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

PFDoA_2
Sample: IA1633STD-12.5 S/N:4604.8 Points Across peak:37



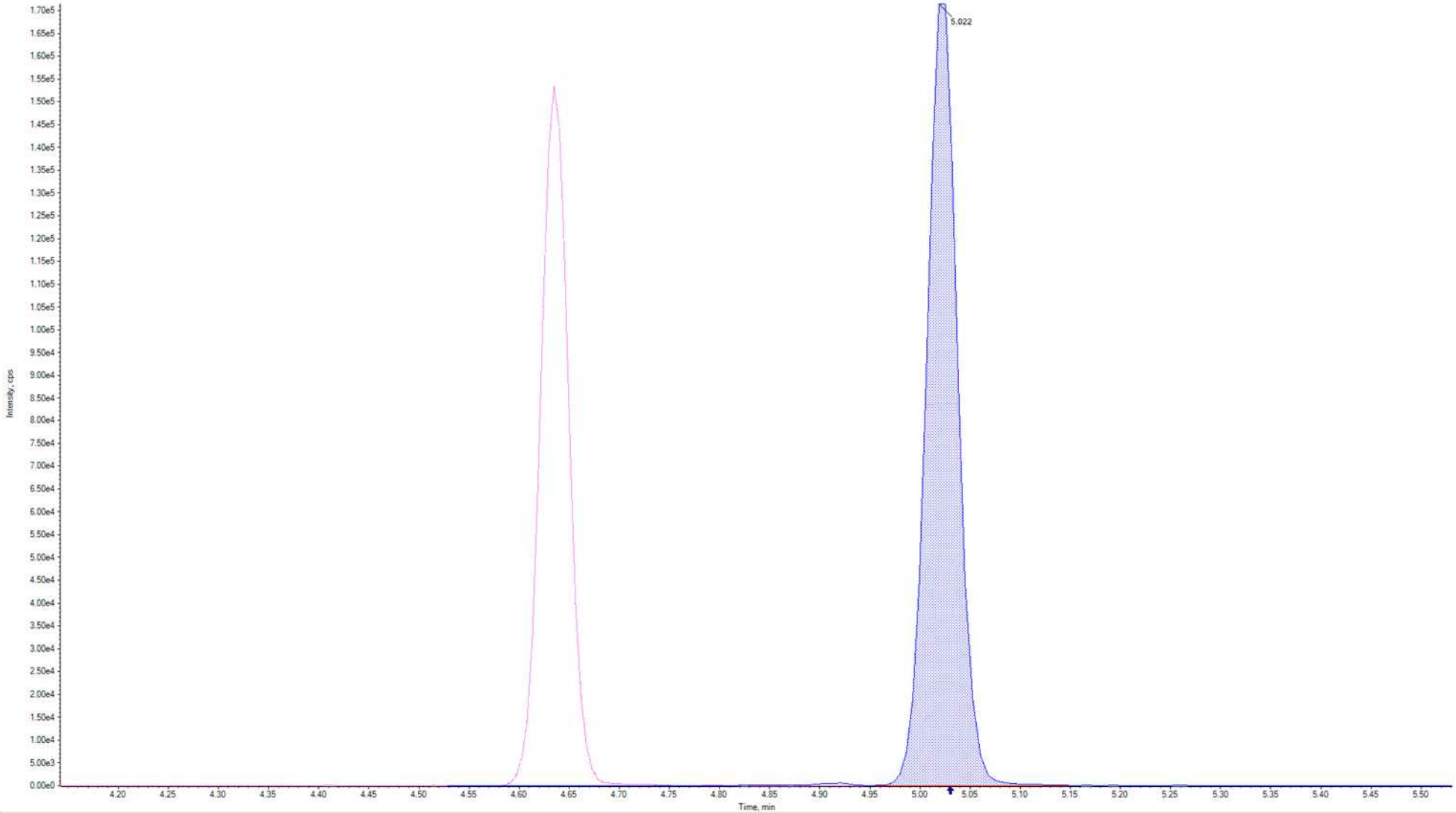
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PFTrDA
Sample: IA1633STD-12.5 S/N:11019.6 Points Across peak:34



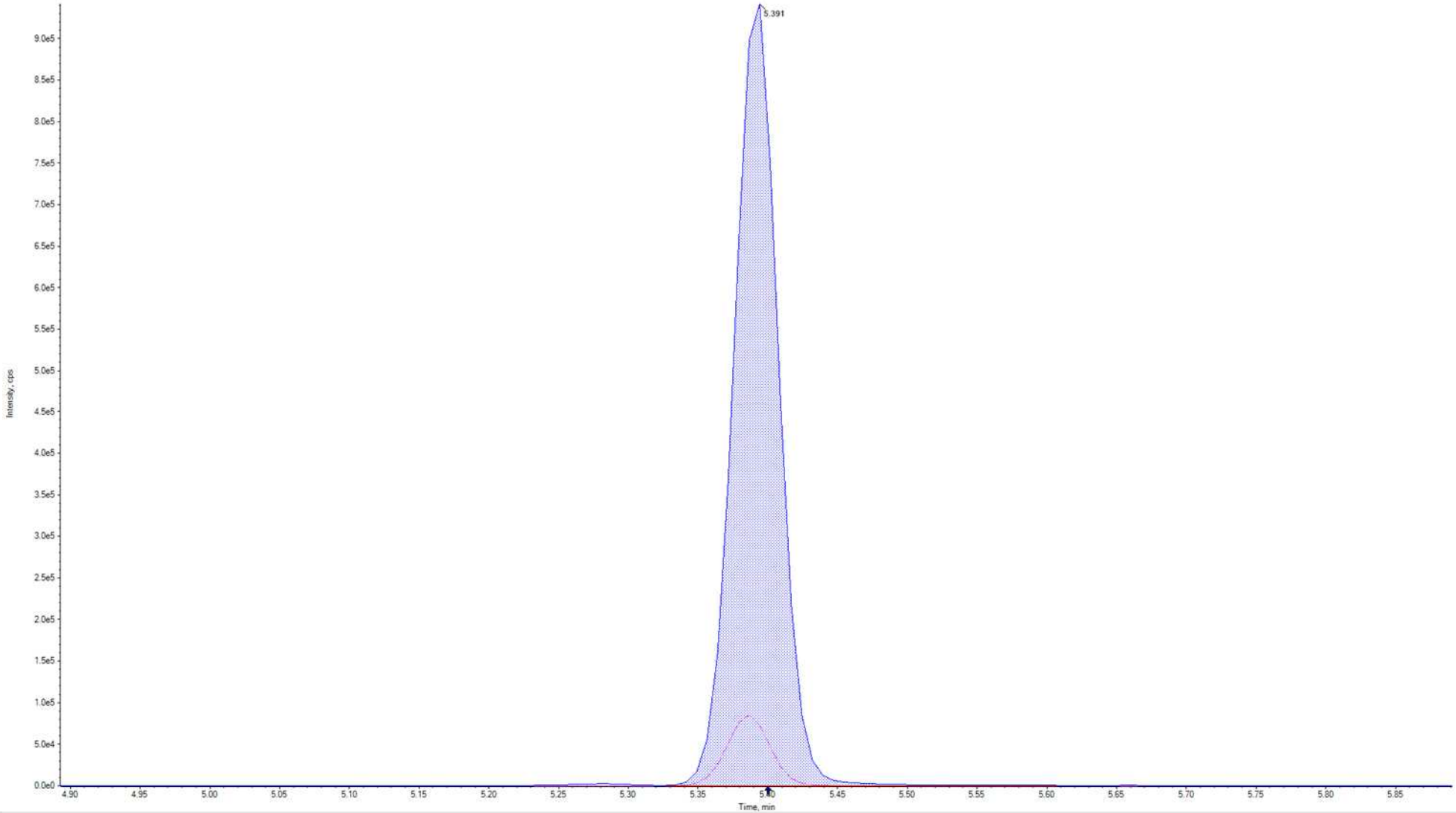
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Alpha Analytical LLC
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PFTrDA_2
Sample: IA1633STD-12.5 S/N:3413.4 Points Across peak:30



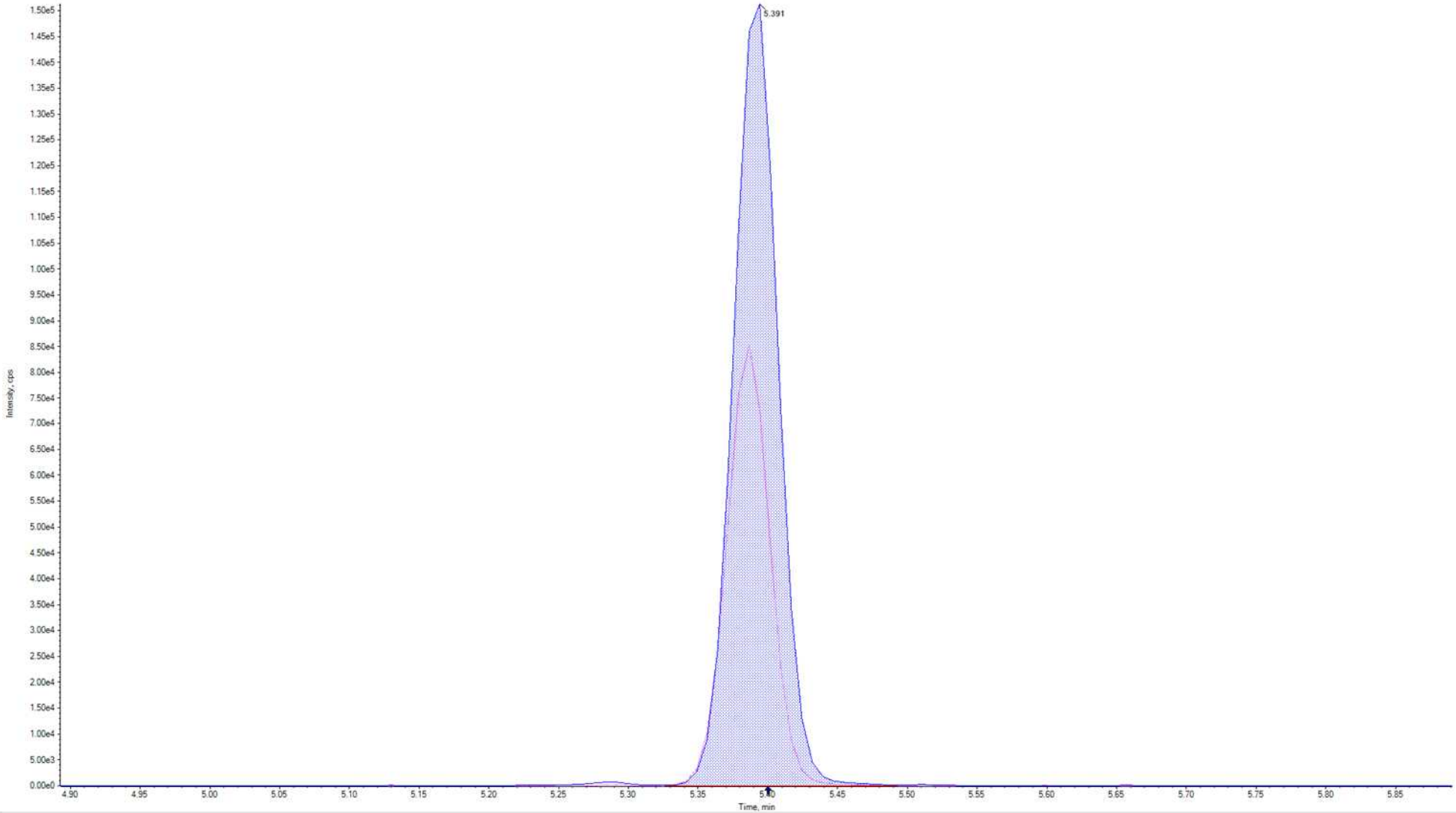
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFTeDA
Sample: IA1633STD-12.5 S/N:7482.0 Points Across peak:38



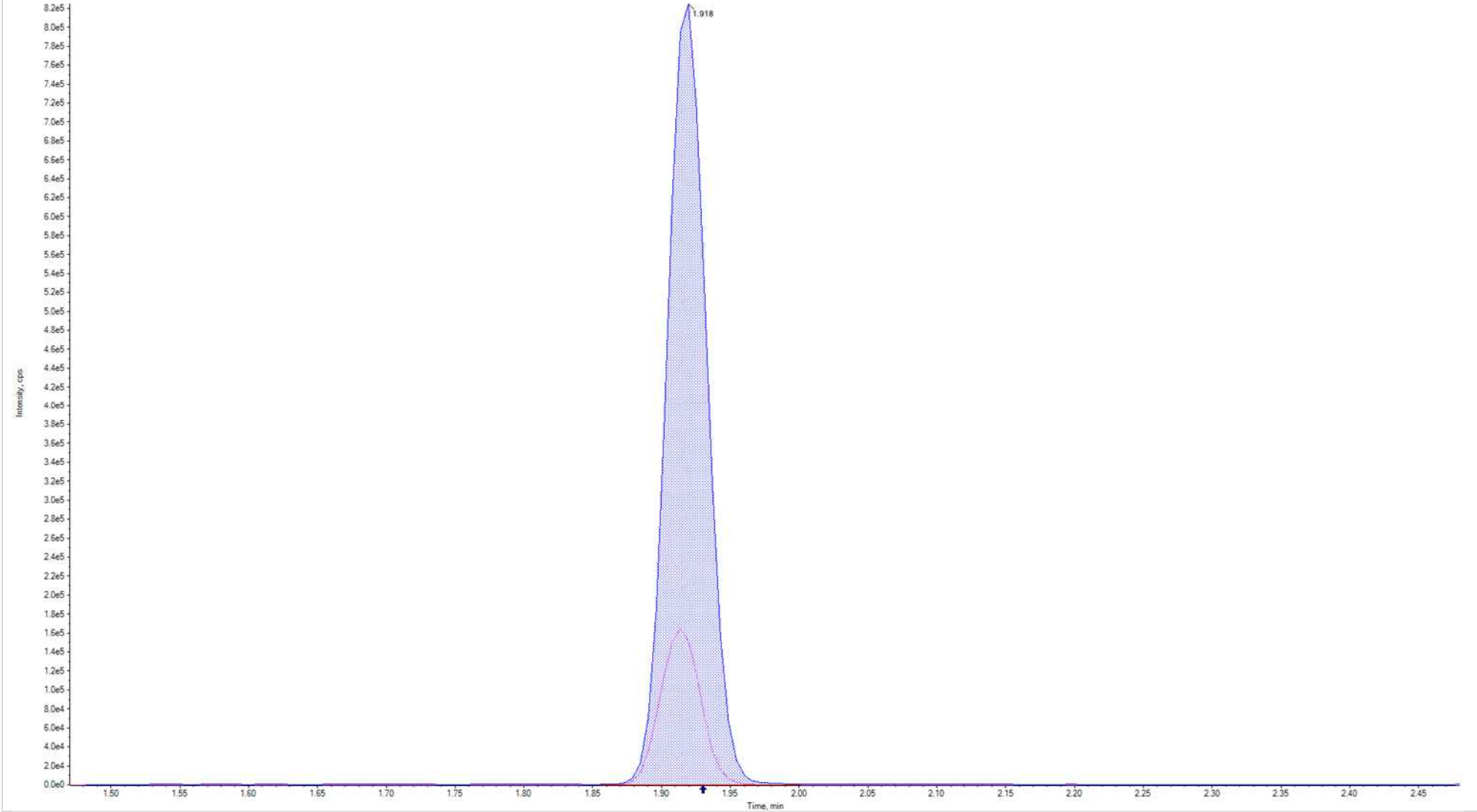
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Alpha Analytical LLC
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PFTeDA_2
Sample: IA1633STD-12.5 S/N:2912.0 Points Across peak:22



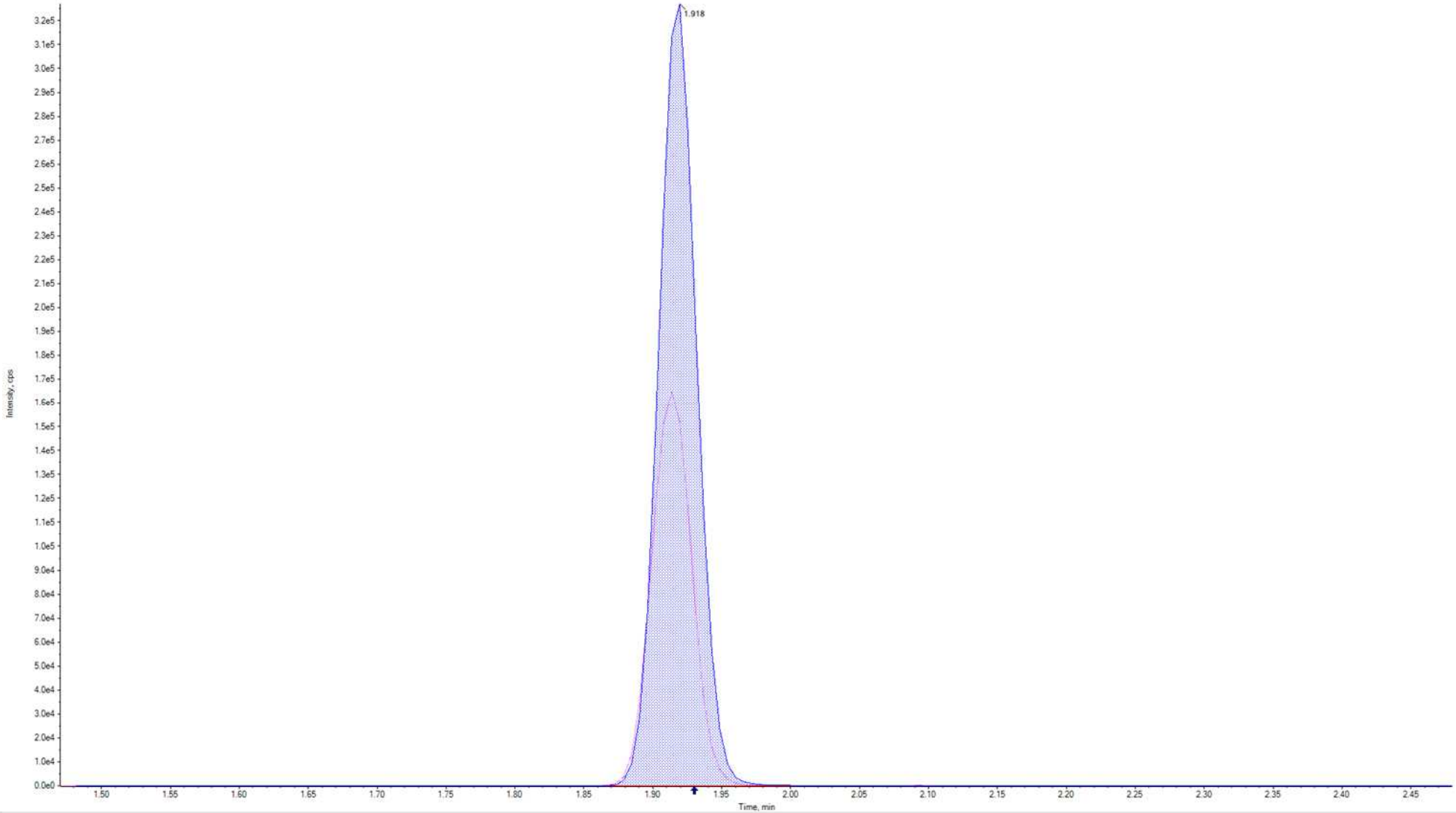
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Alpha Analytical LLC
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PFBS
Sample: IA1633STD-12.5 S/N:5426.7 Points Across peak:32



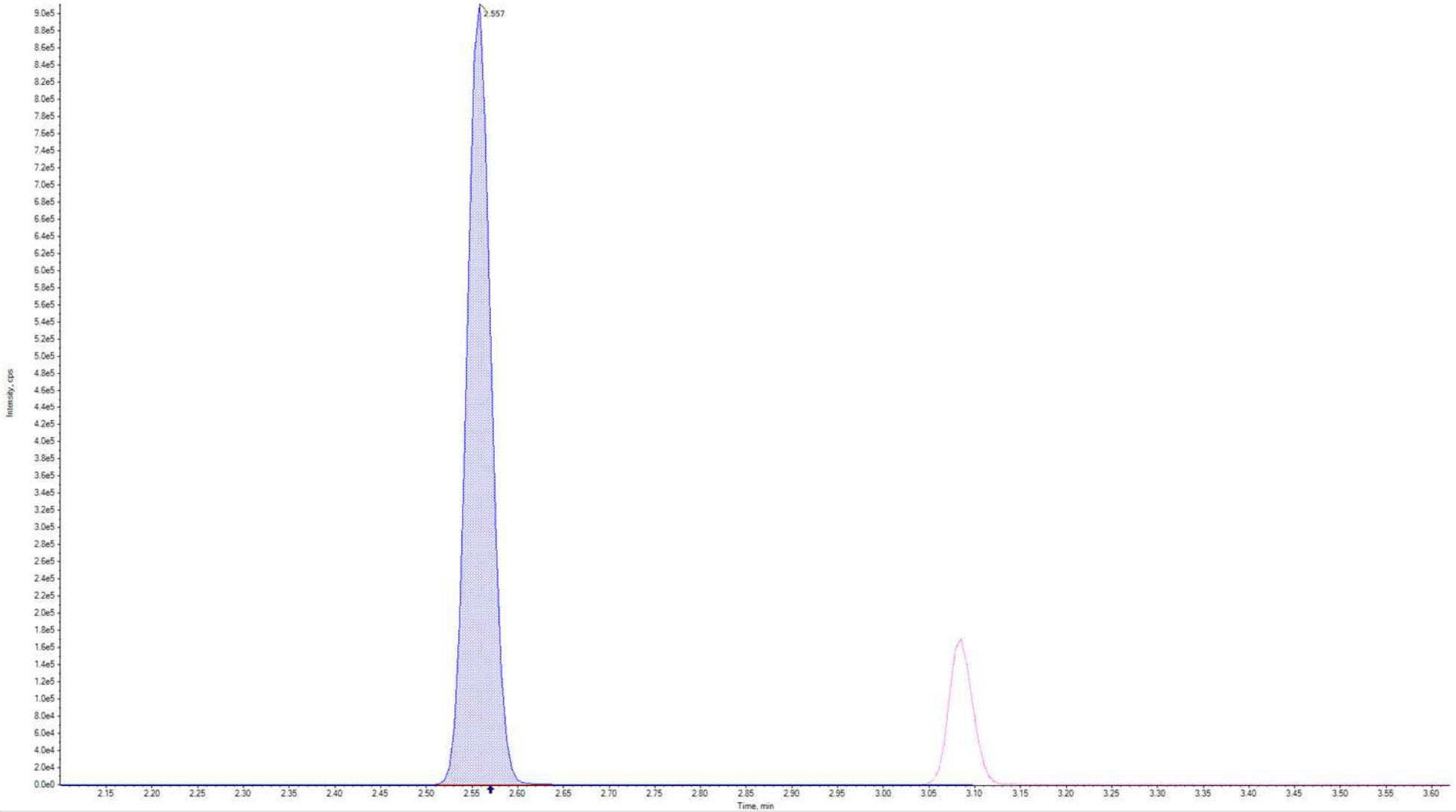
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Alpha Analytical LLC
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PFBS_2
Sample: IA1633STD-12.5 S/N:5019.2 Points Across peak:29



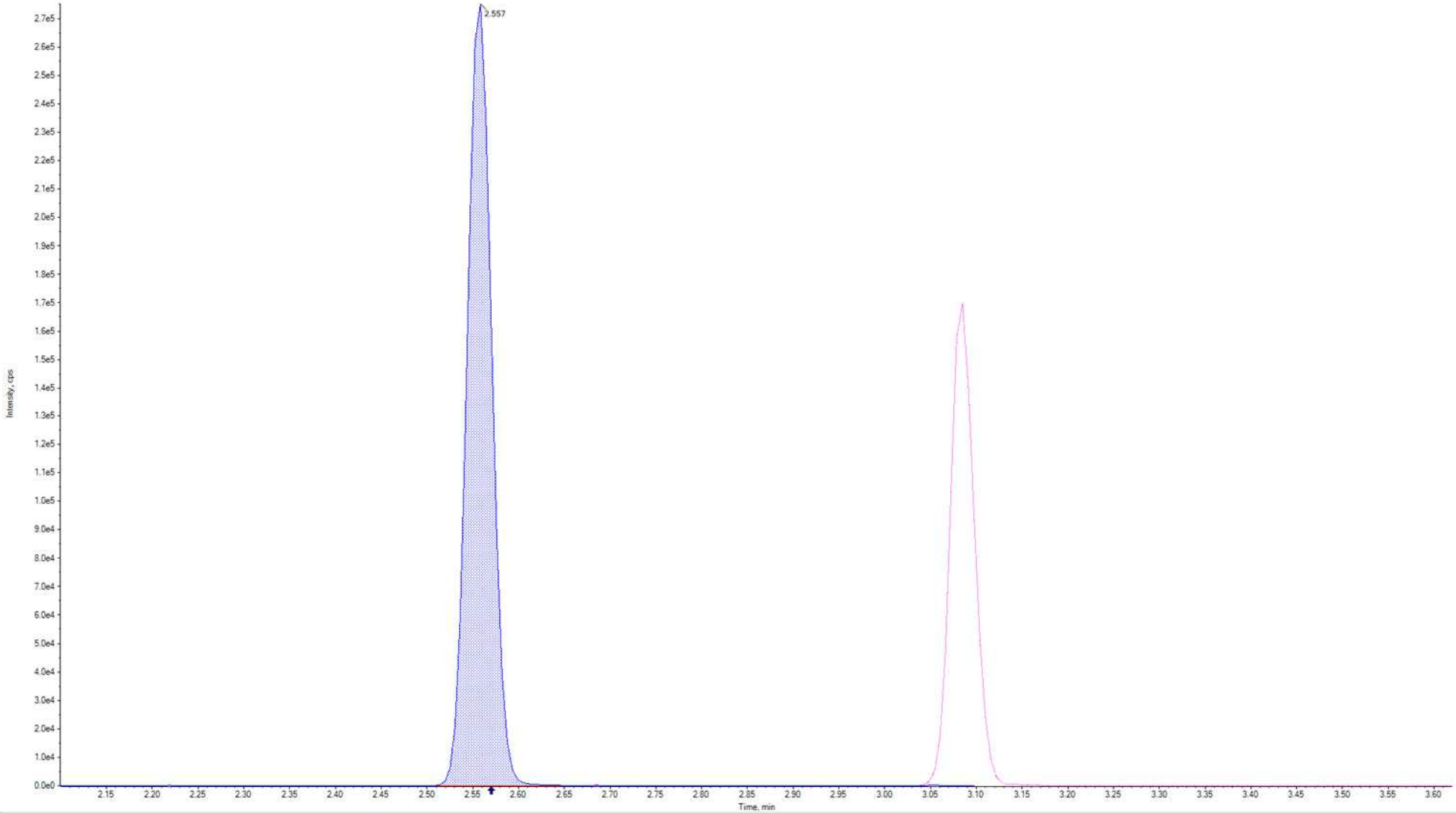
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

PFPeS
Sample: IA1633STD-12.5 S/N:5107.7 Points Across peak:33



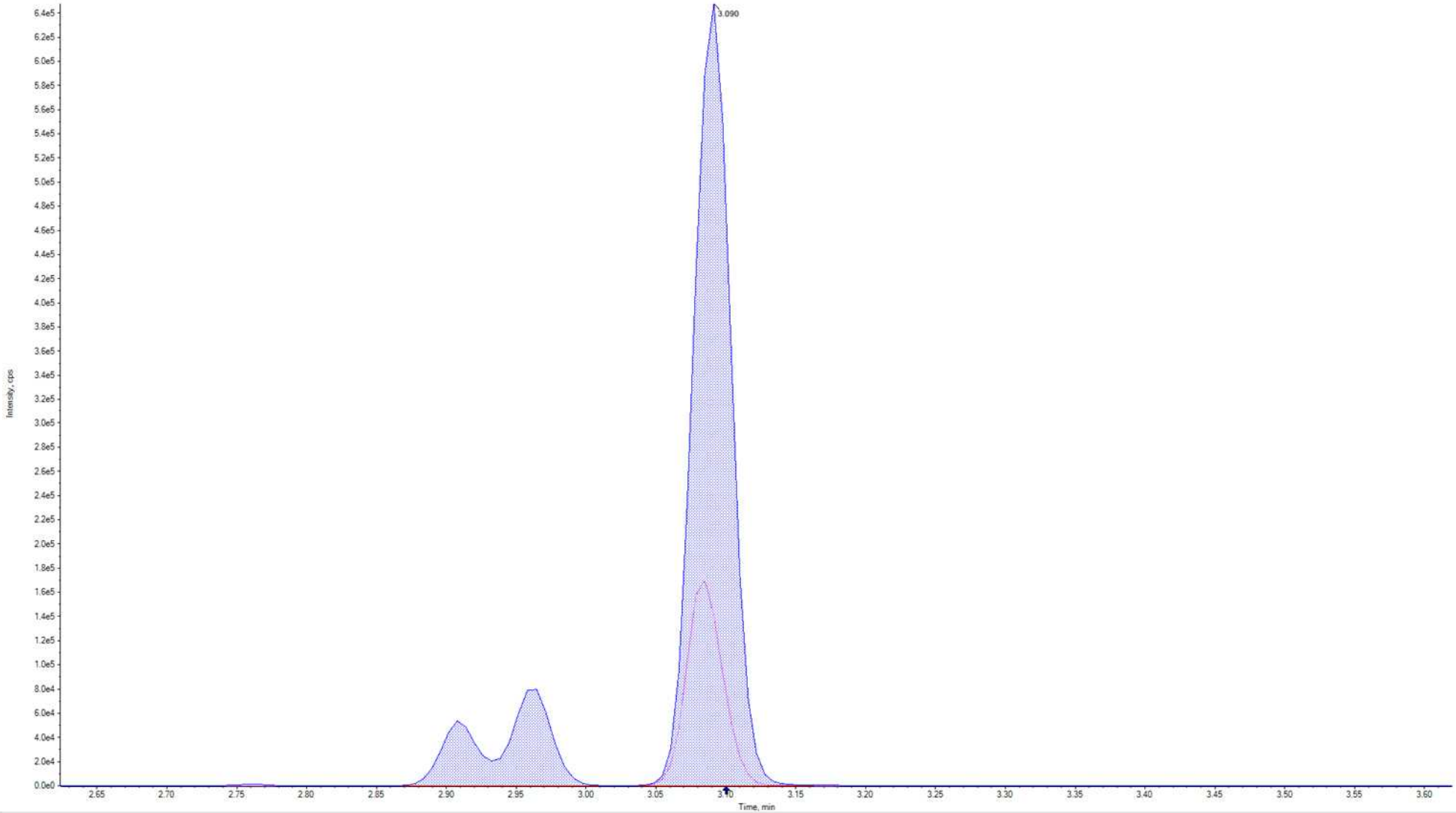
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Alpha Analytical LLC
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PFPeS_2
Sample: IA1633STD-12.5 S/N:3812.3 Points Across peak:28



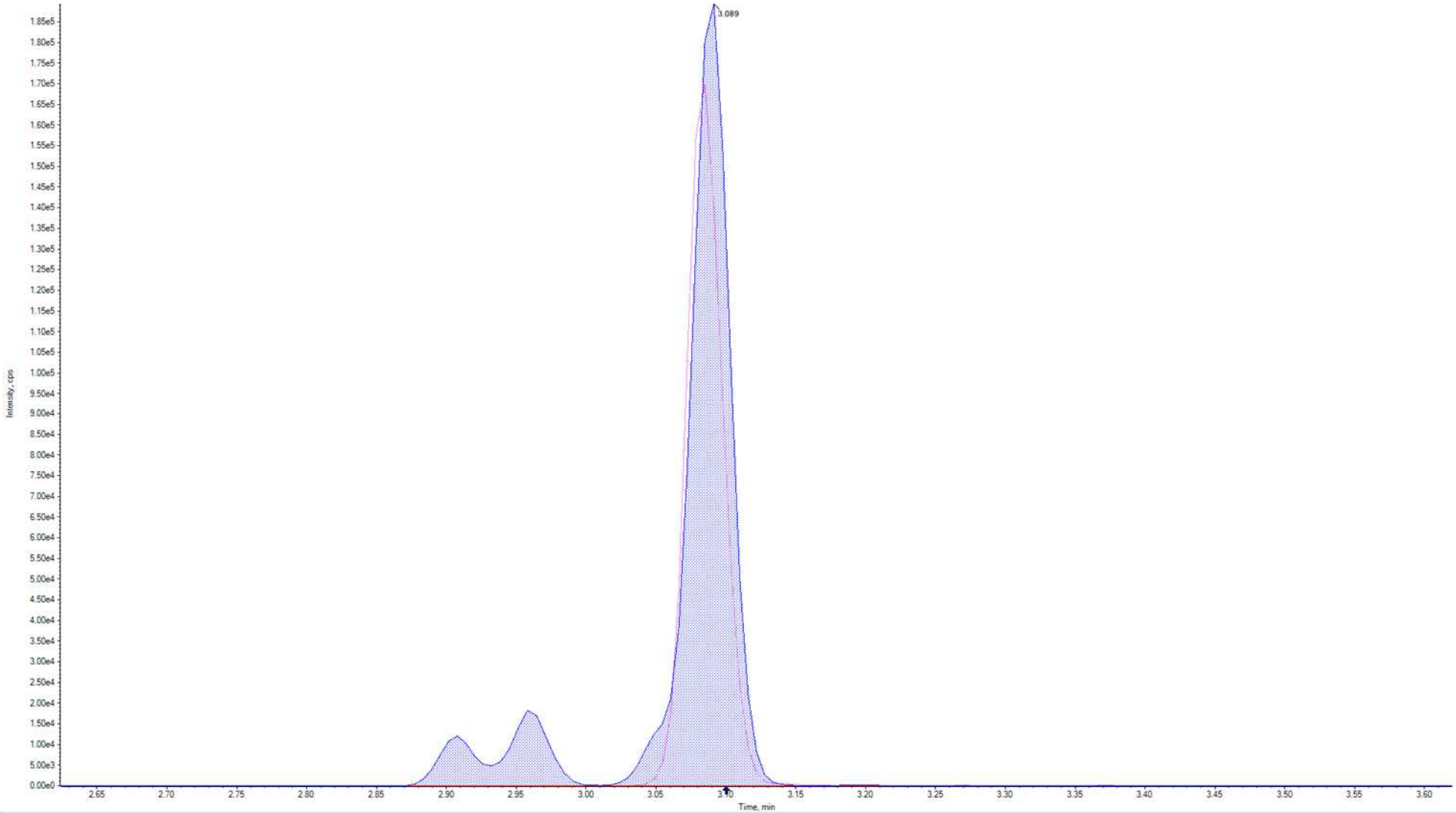
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Alpha Analytical LLC
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PFHxS
Sample: IA1633STD-12.5 S/N:1219.7 Points Across peak:51



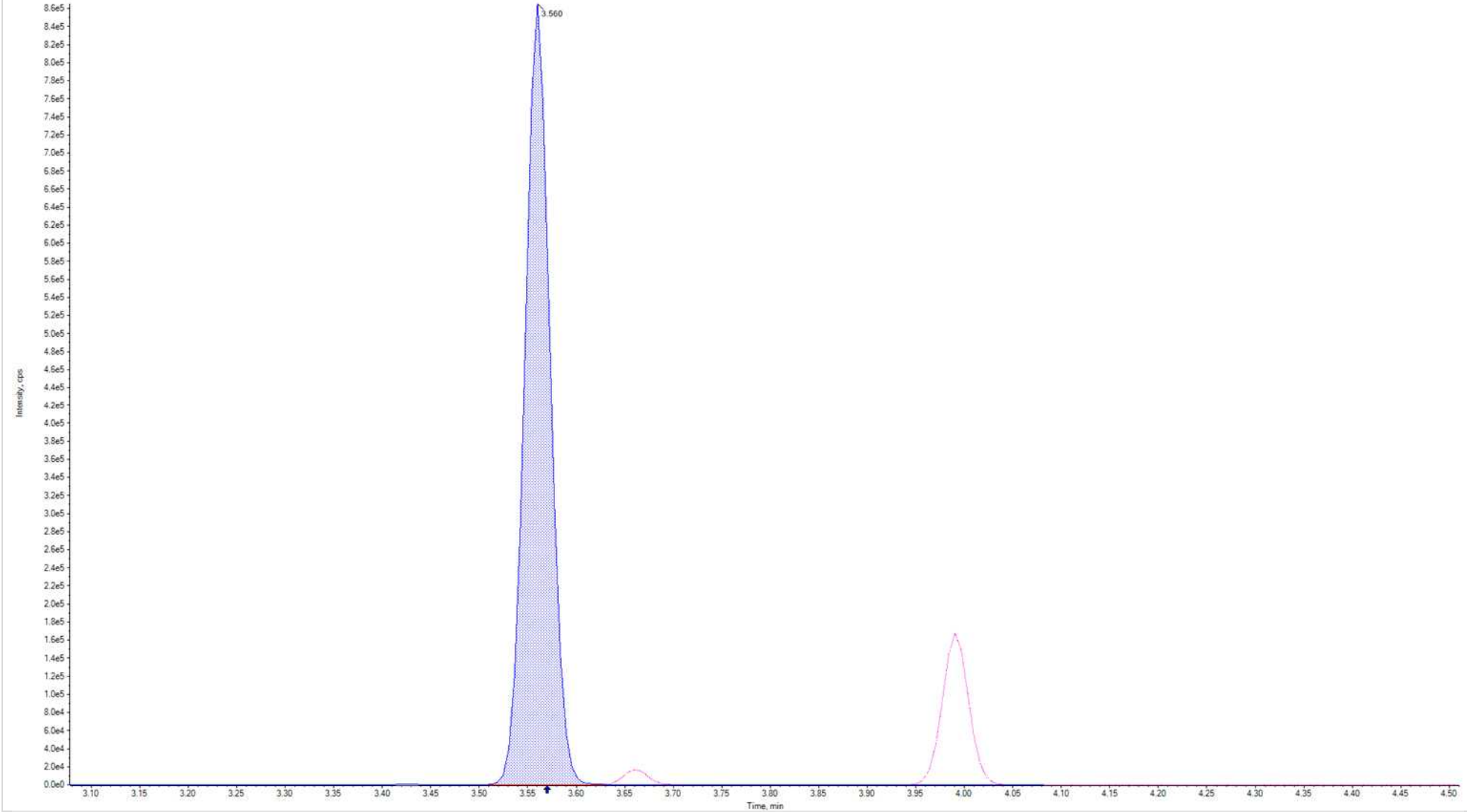
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Alpha Analytical LLC
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PFHxS_2
Sample: IA1633STD-12.5 S/N:1736.0 Points Across peak:68



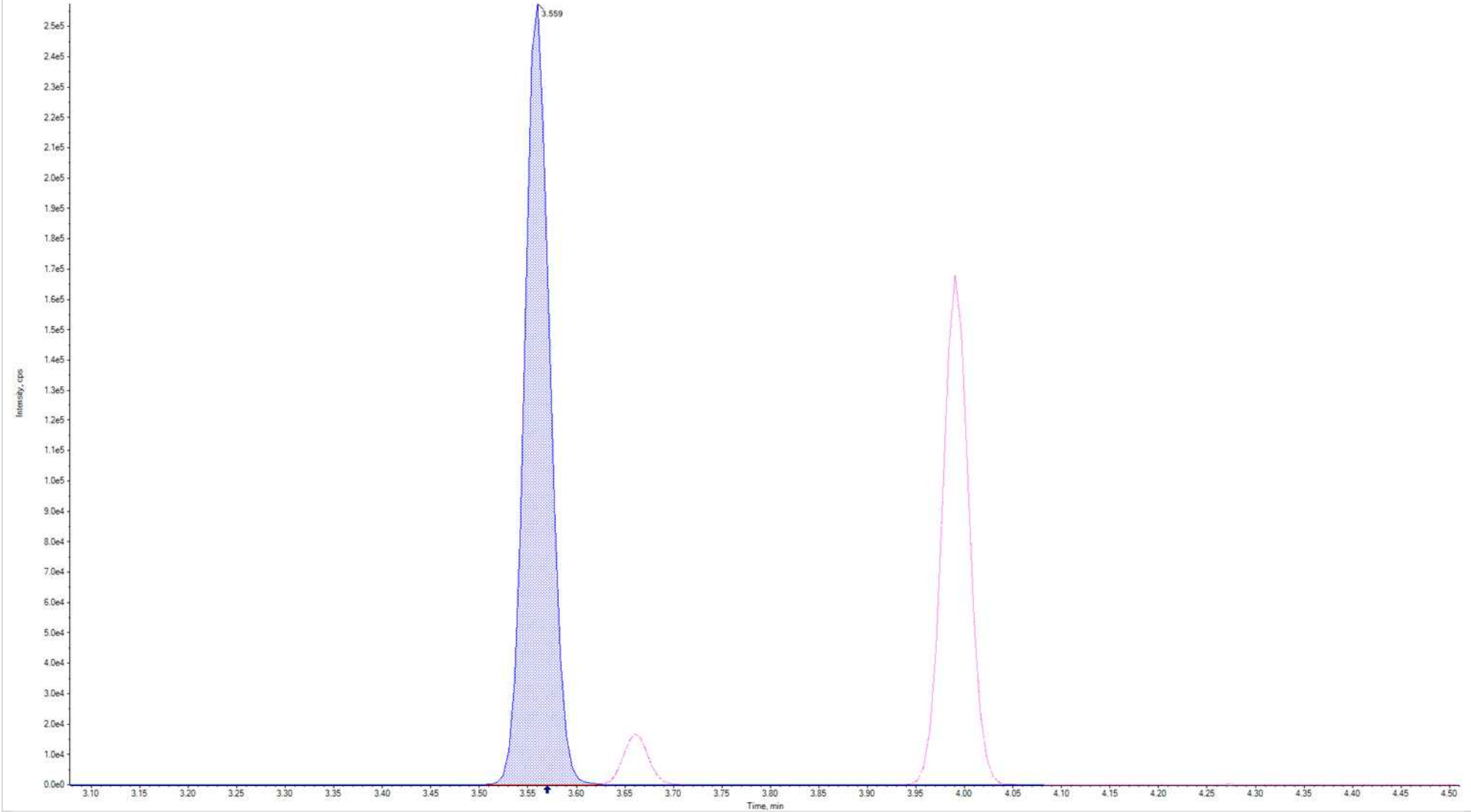
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFHpS
Sample: IA1633STD-12.5 S/N:6243.0 Points Across peak:26



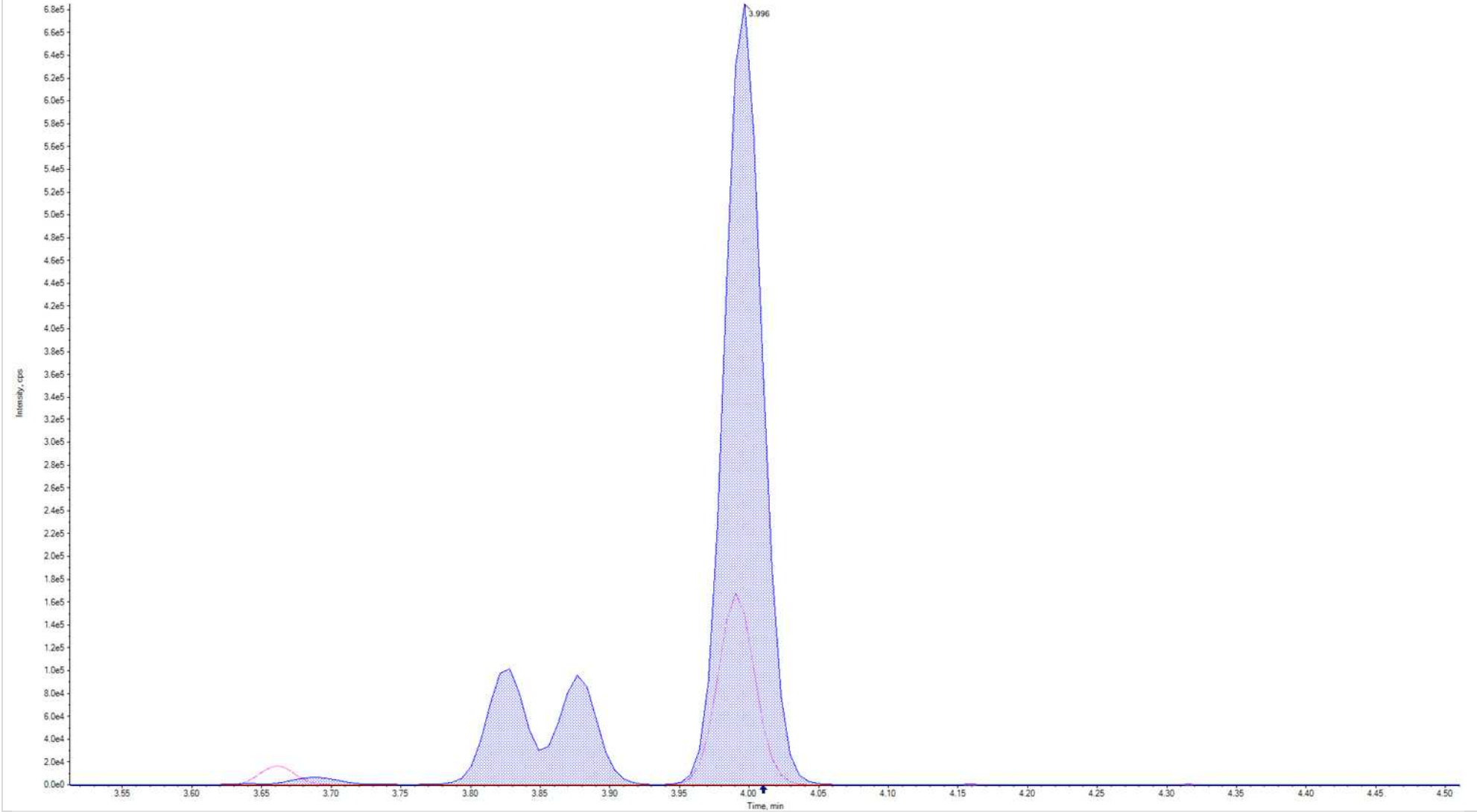
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Alpha Analytical LLC
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PFHpS_2
Sample: IA1633STD-12.5 S/N:5161.8 Points Across peak:27



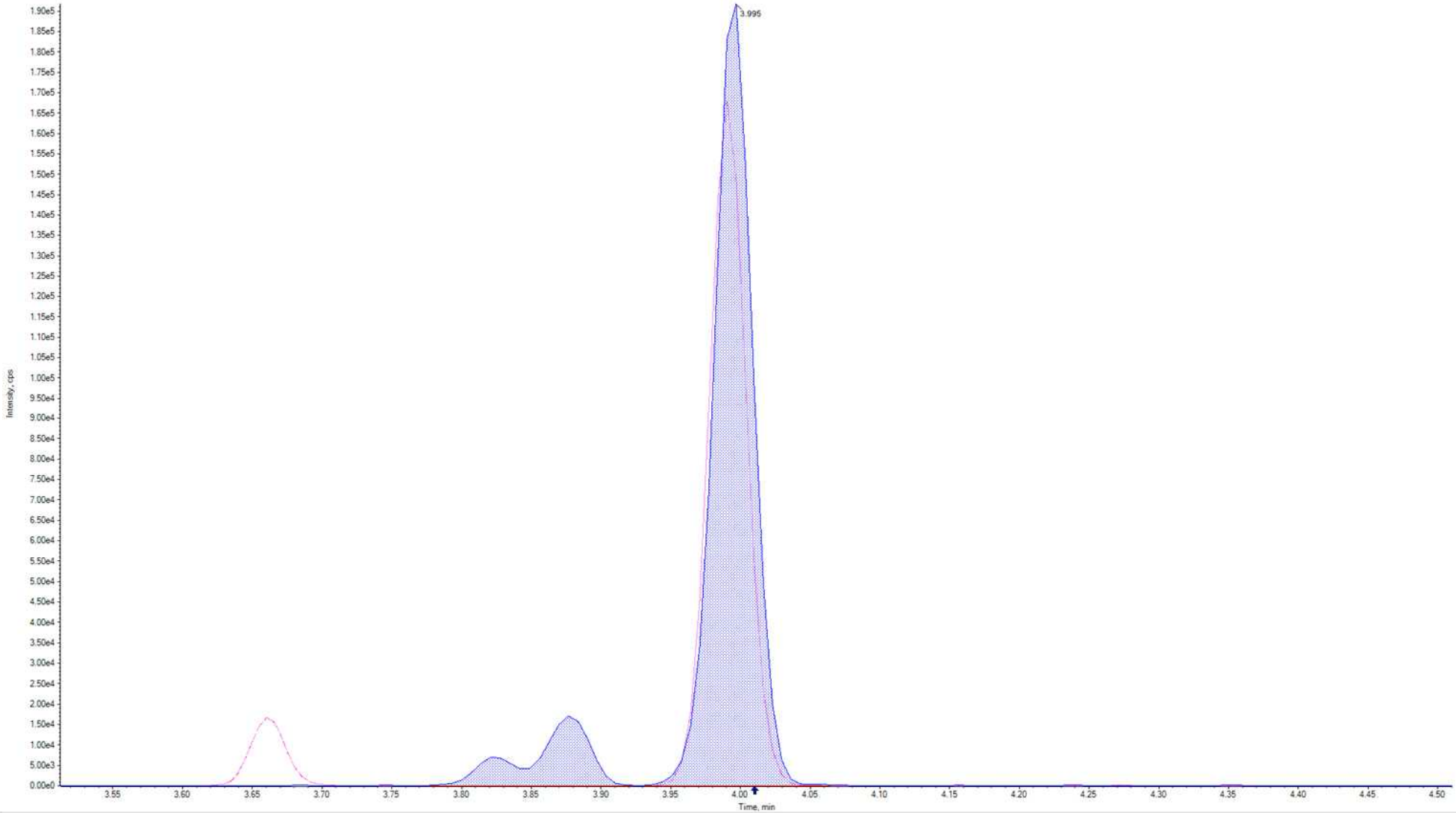
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOS
Sample: IA1633STD-12.5 S/N:593.0 Points Across peak:75



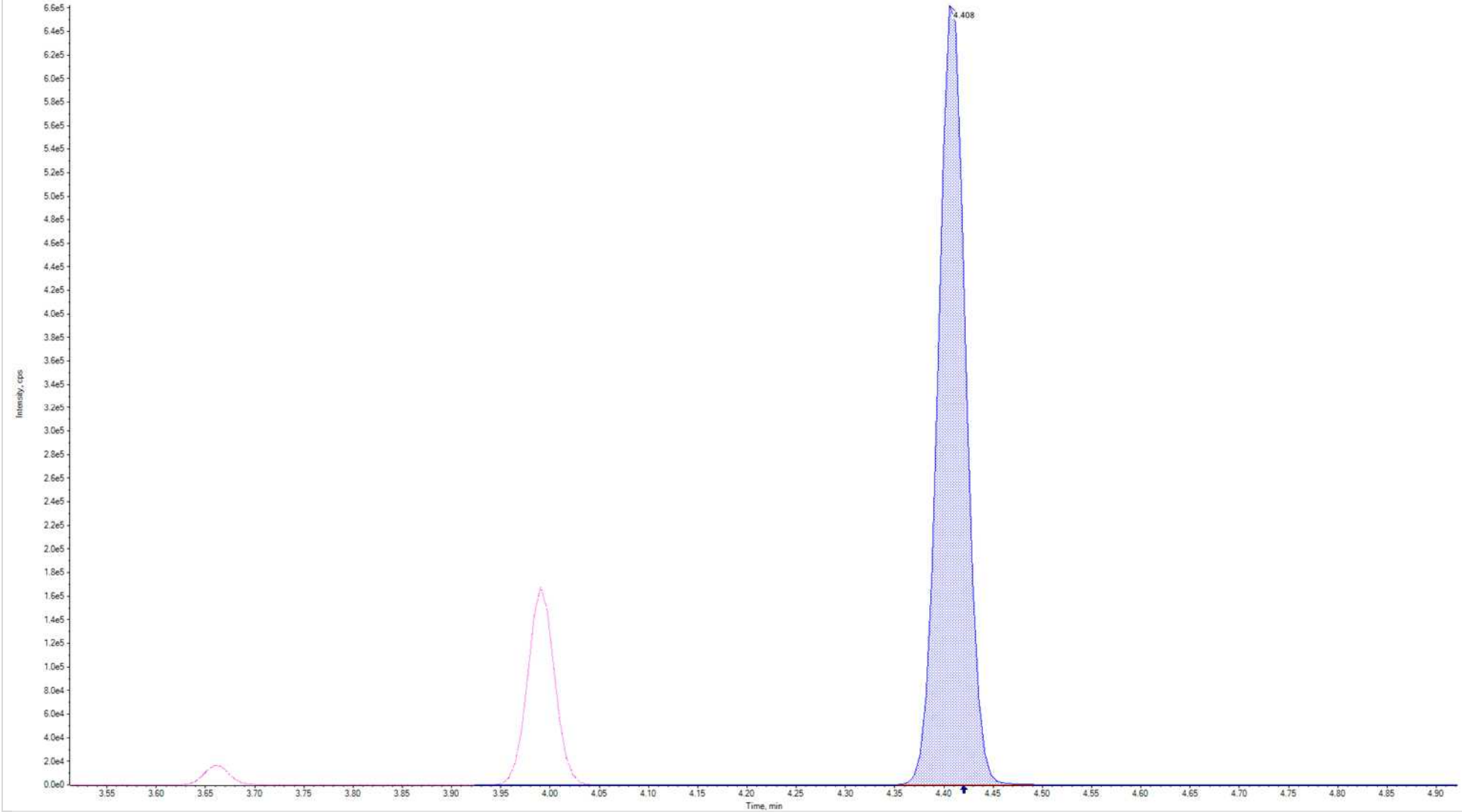
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOS_2
Sample: IA1633STD-12.5 S/N:1258.0 Points Across peak:45



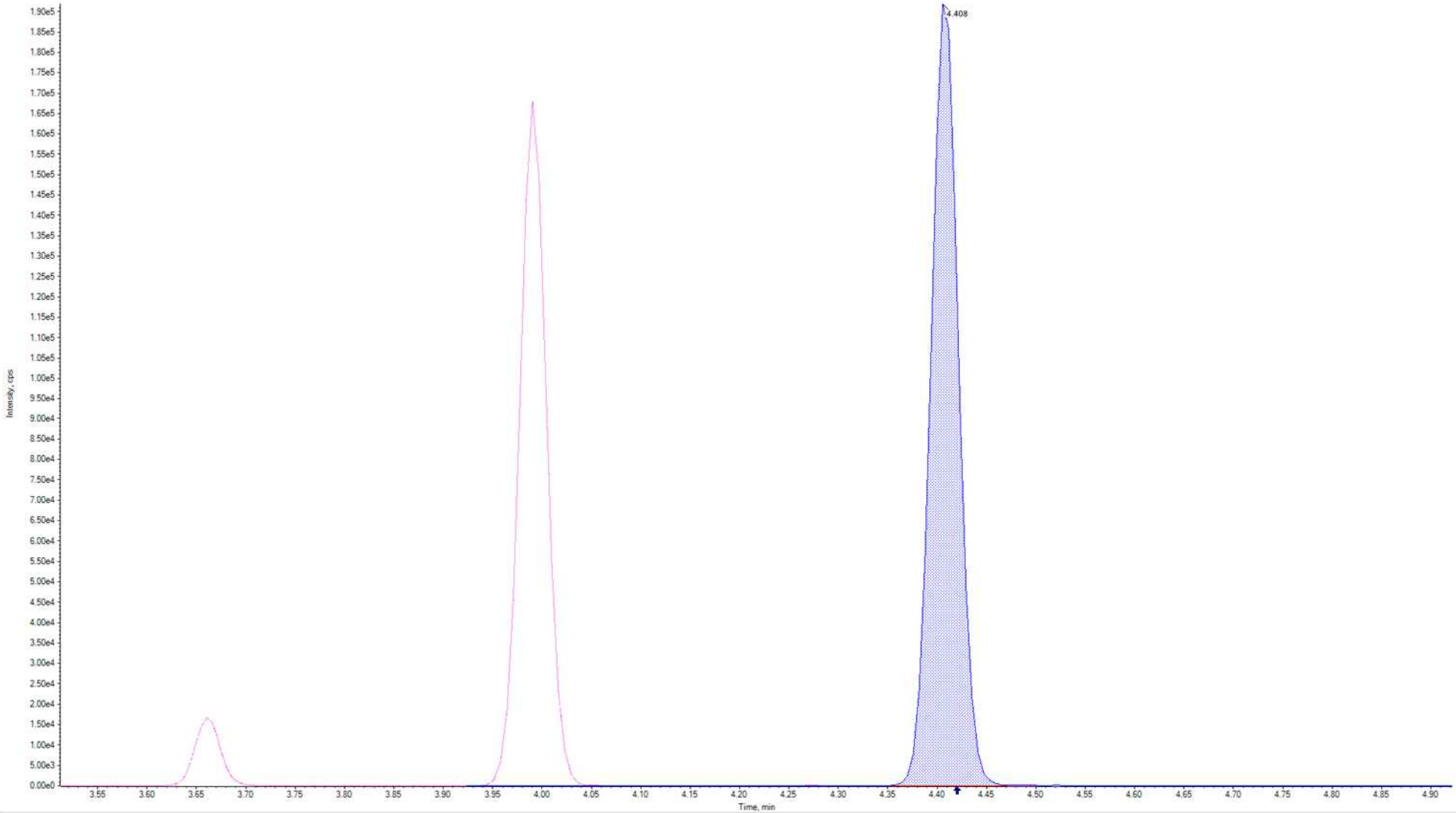
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS
Sample: IA1633STD-12.5 S/N:7699.3 Points Across peak:33



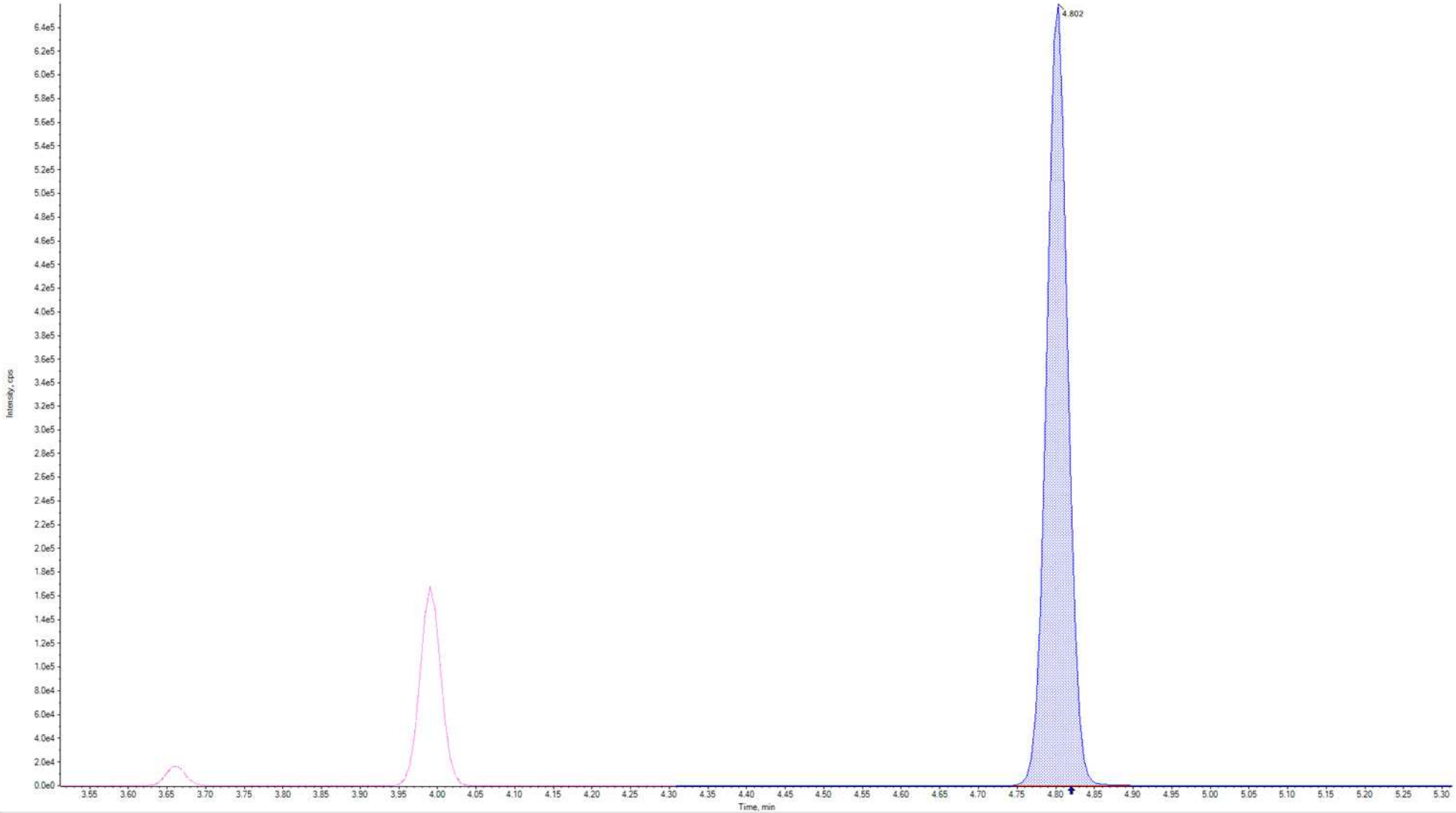
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS_2
Sample: IA1633STD-12.5 S/N:4809.8 Points Across peak:27



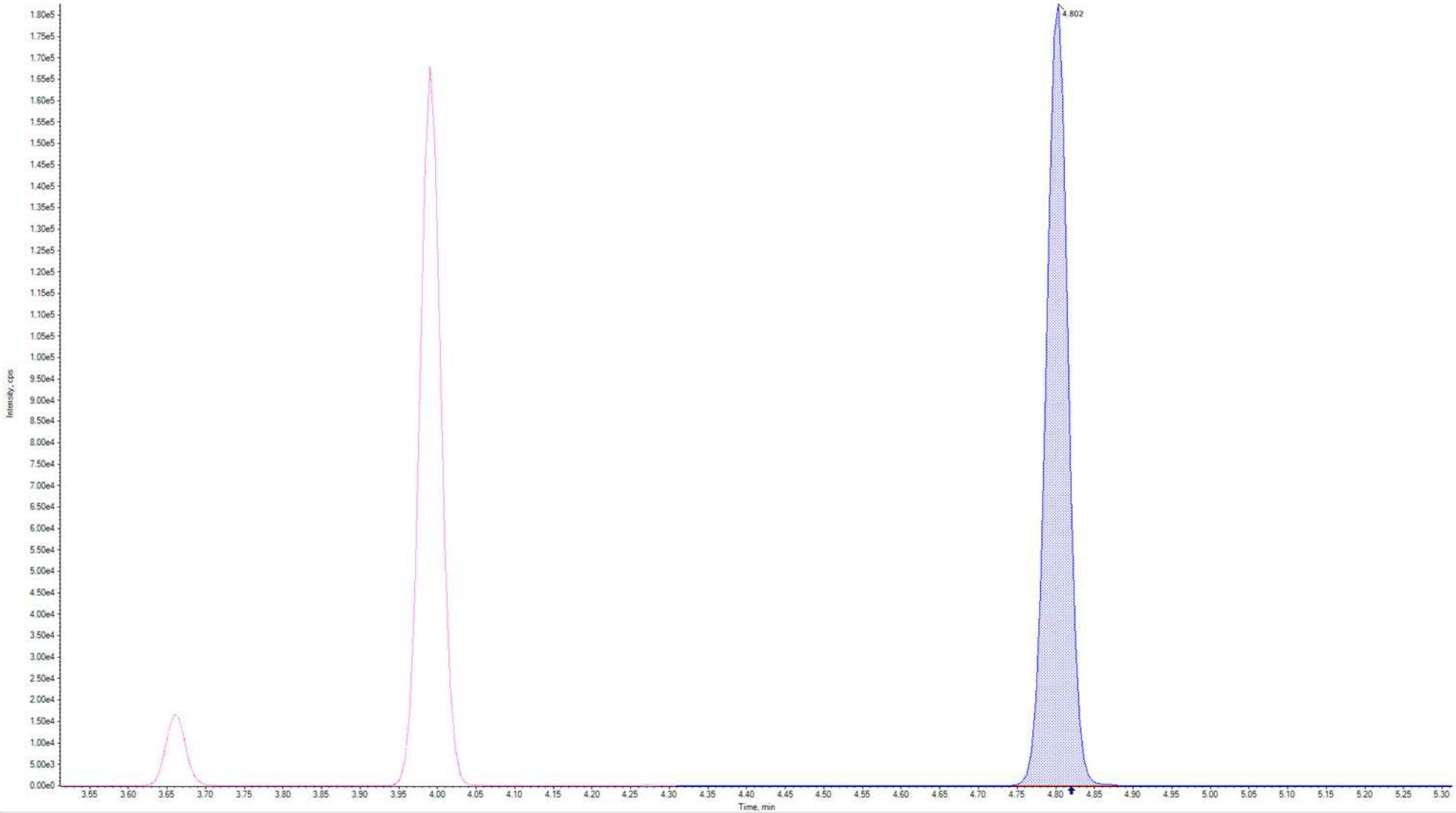
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDS
Sample: IA1633STD-12.5 S/N:23159.2 Points Across peak:33



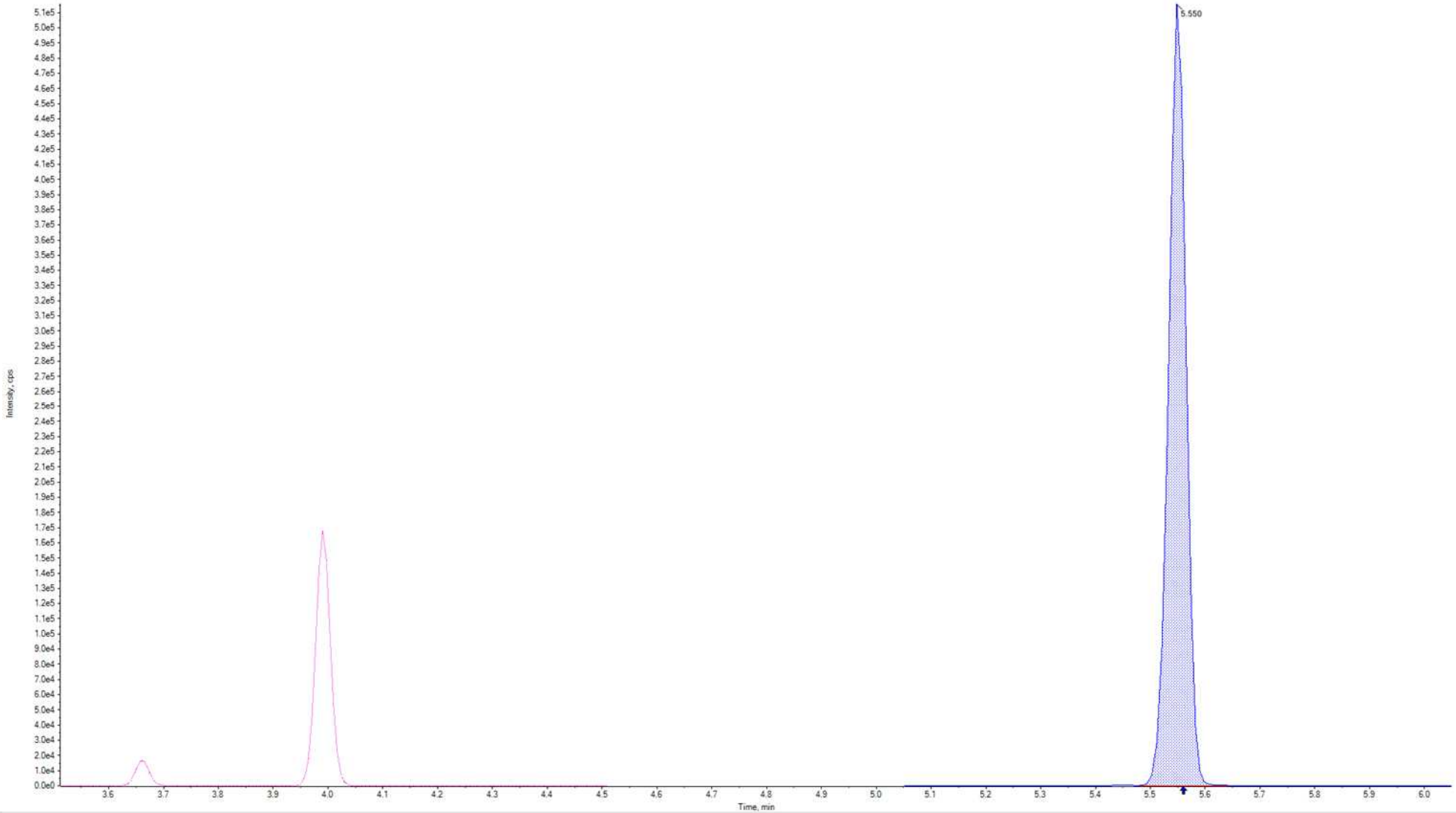
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDS_2
Sample: IA1633STD-12.5 S/N:6407.2 Points Across peak:38



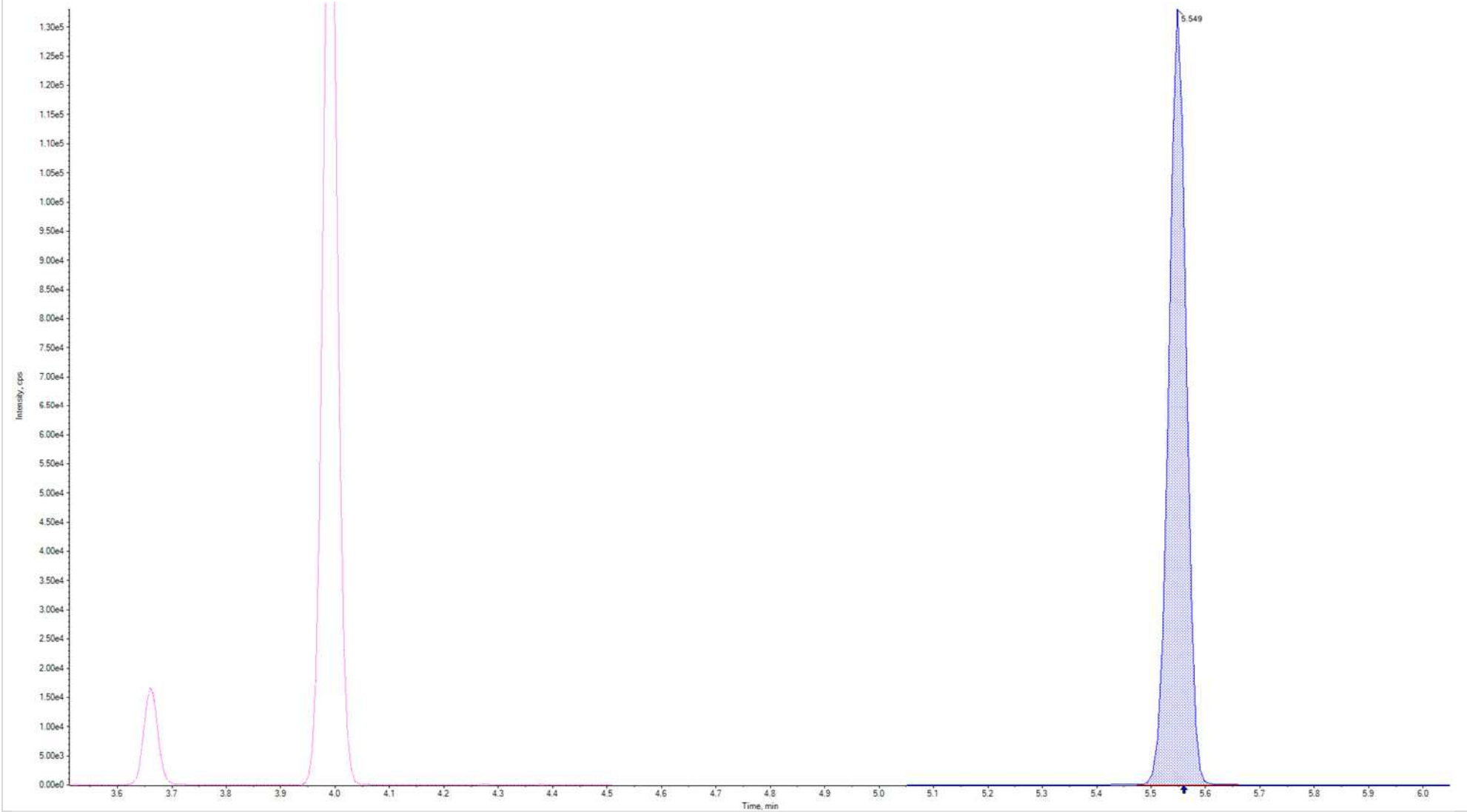
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDoS
Sample: IA1633STD-12.5 S/N:16086.1 Points Across peak:28



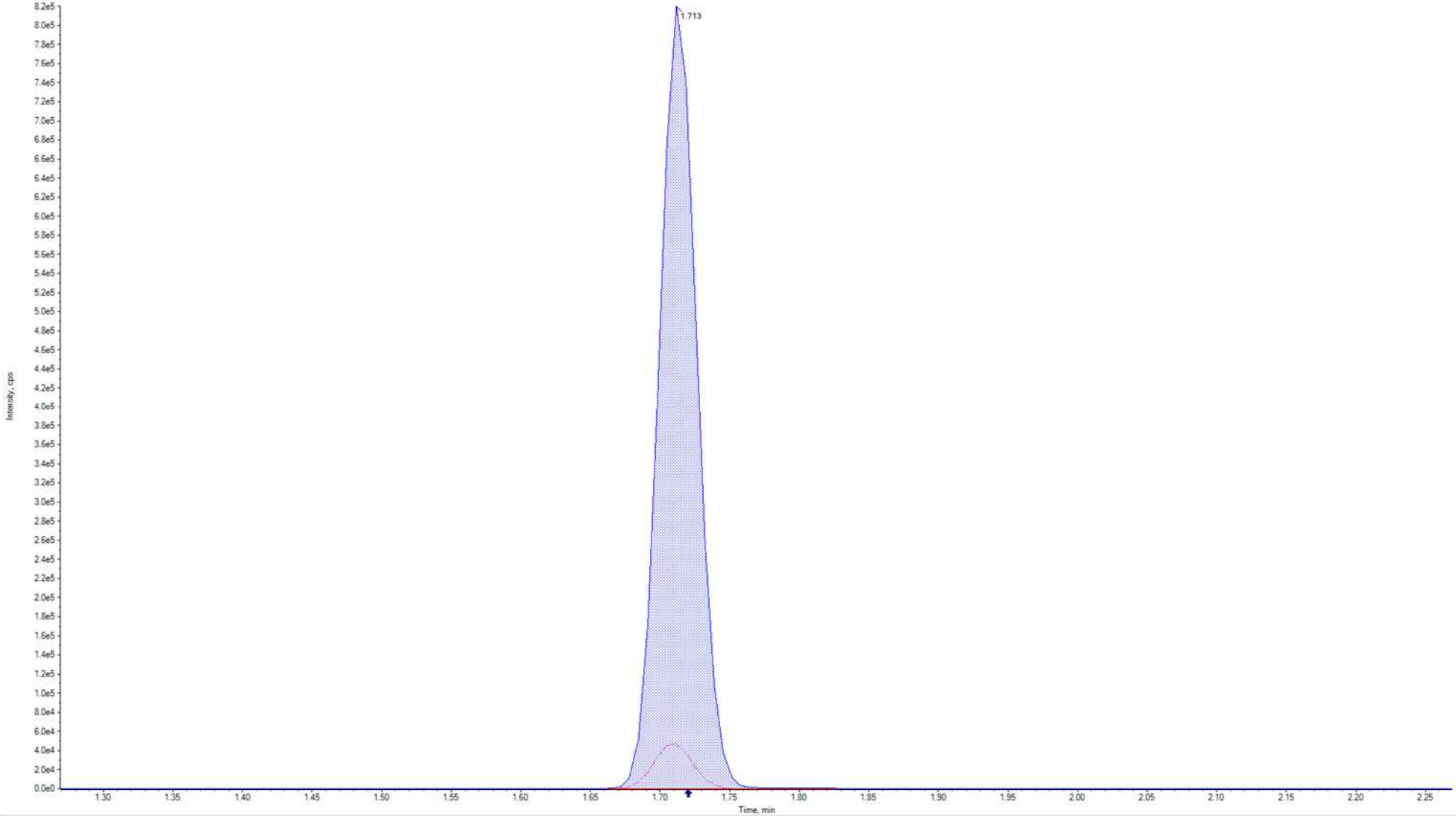
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDoS_2
Sample: IA1633STD-12.5 S/N:10341.7 Points Across peak:25



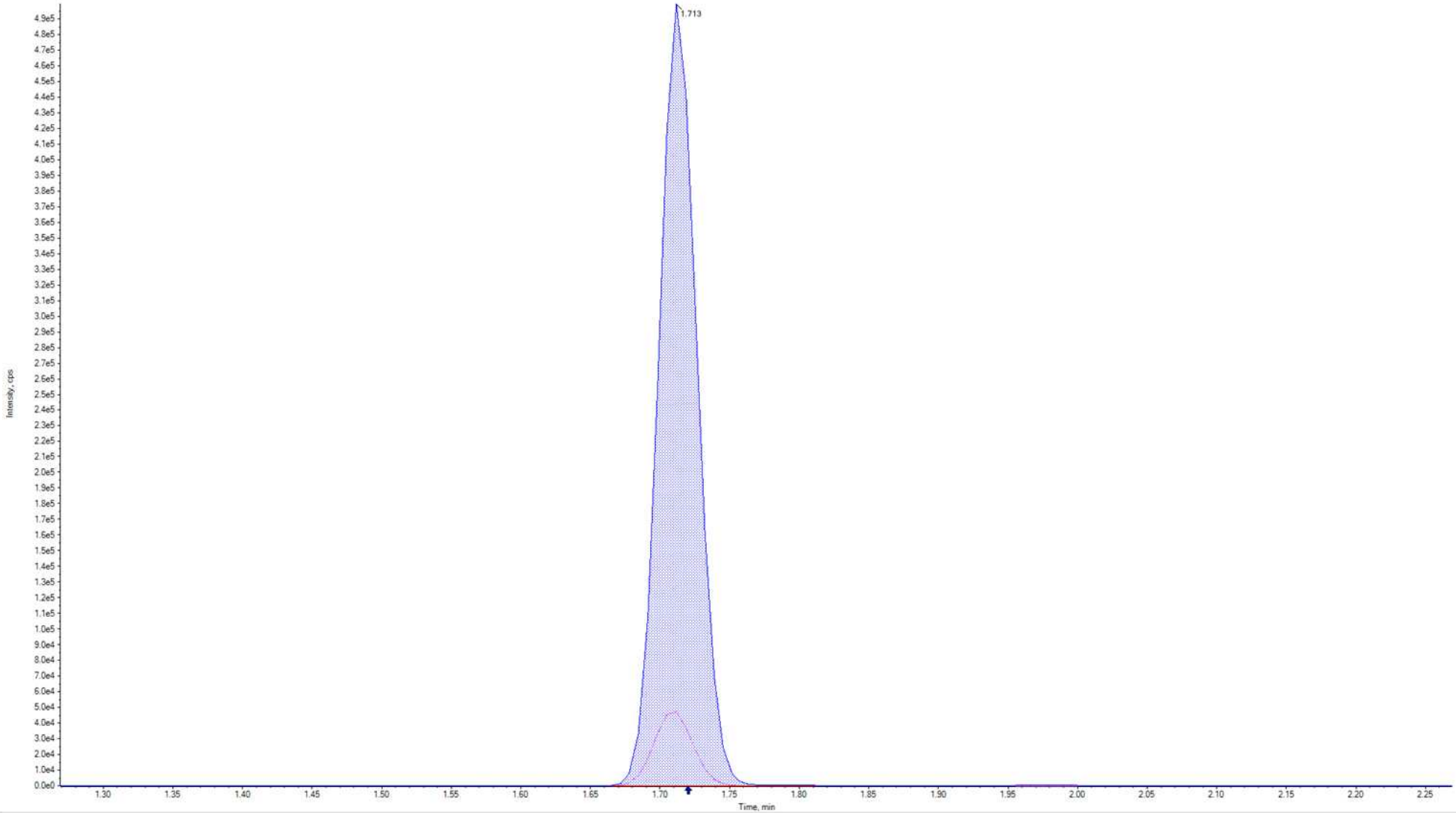
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
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4:2FTS
Sample: IA1633STD-12.5 S/N:30838.1 Points Across peak:40



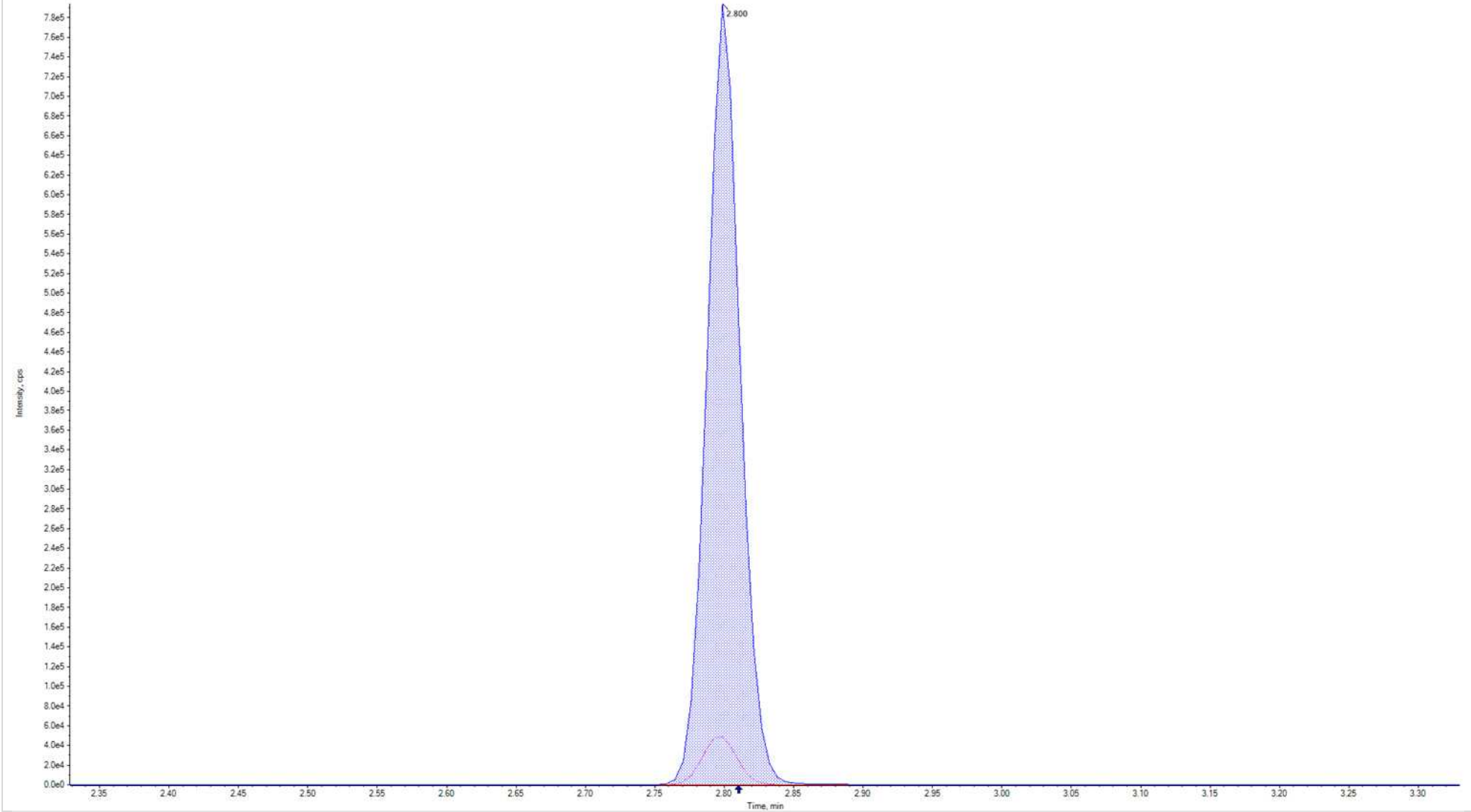
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

4:2FTS_2
Sample: IA1633STD-12.5 S/N:5890.8 Points Across peak:34



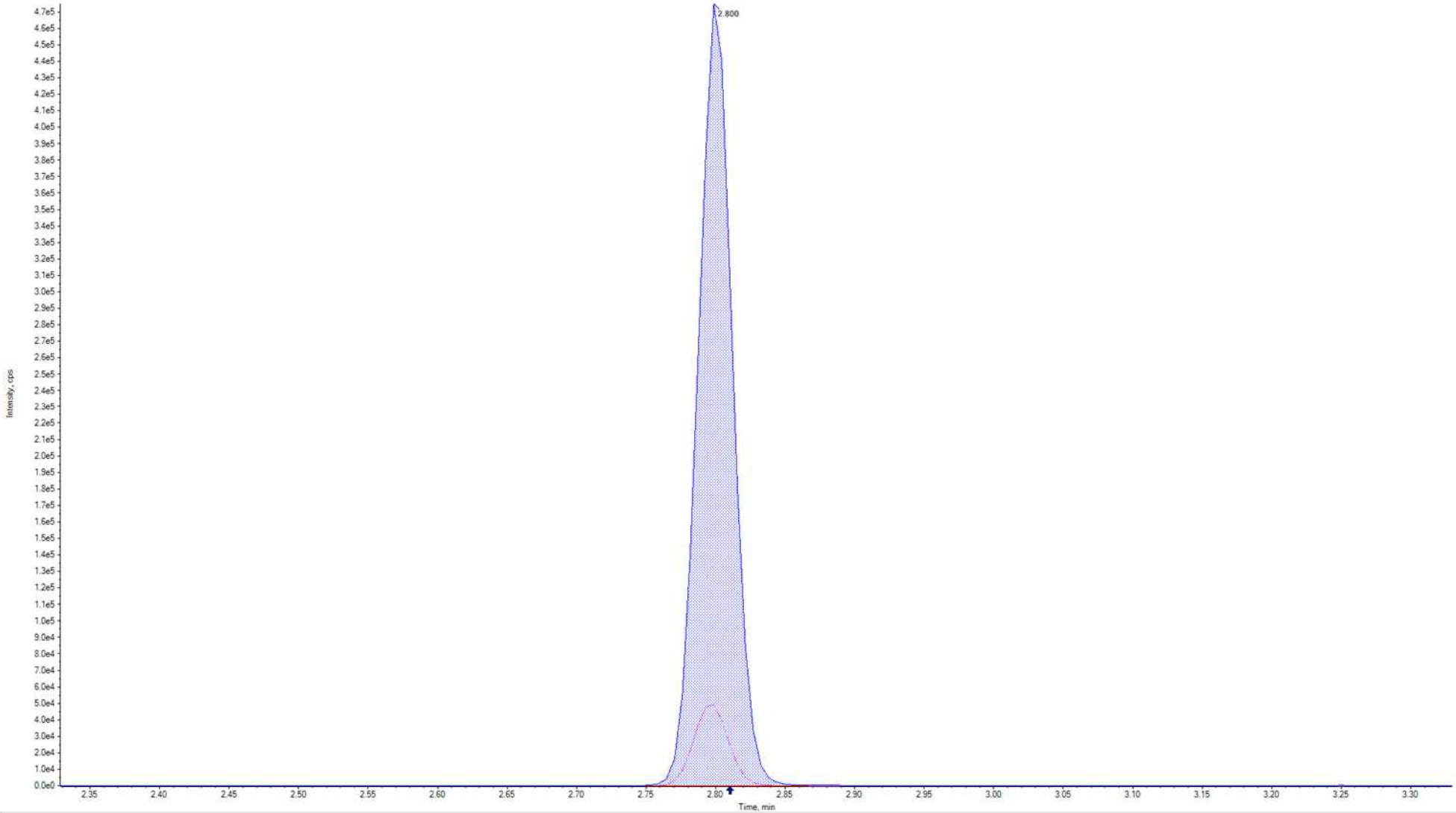
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
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Generated: 3/3/2025 3:16:24 PM

6:2FTS
Sample: IA1633STD-12.5 S/N:5350.2 Points Across peak:34



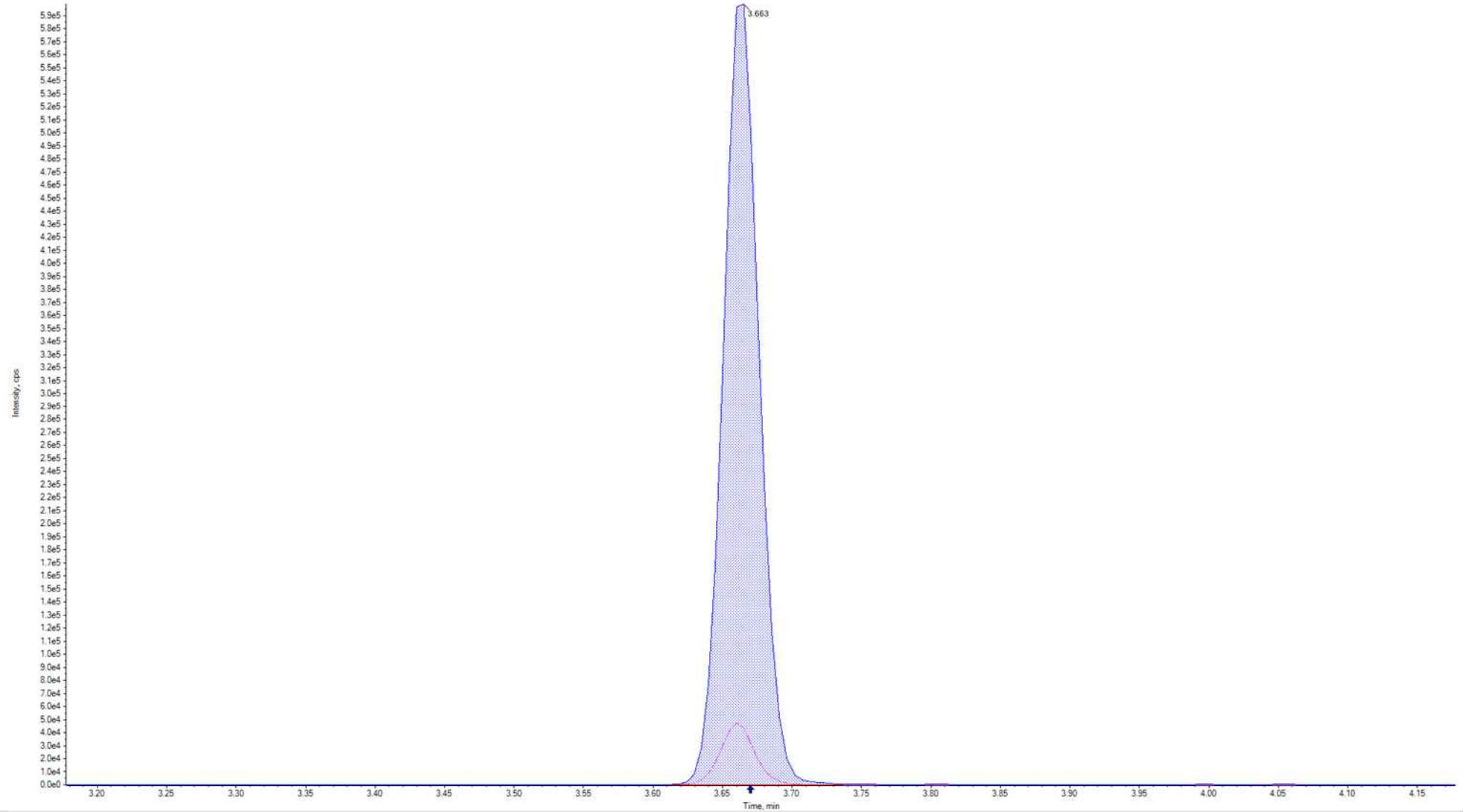
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

6:2FTS_2
Sample: IA1633STD-12.5 S/N:4291.3 Points Across peak:24



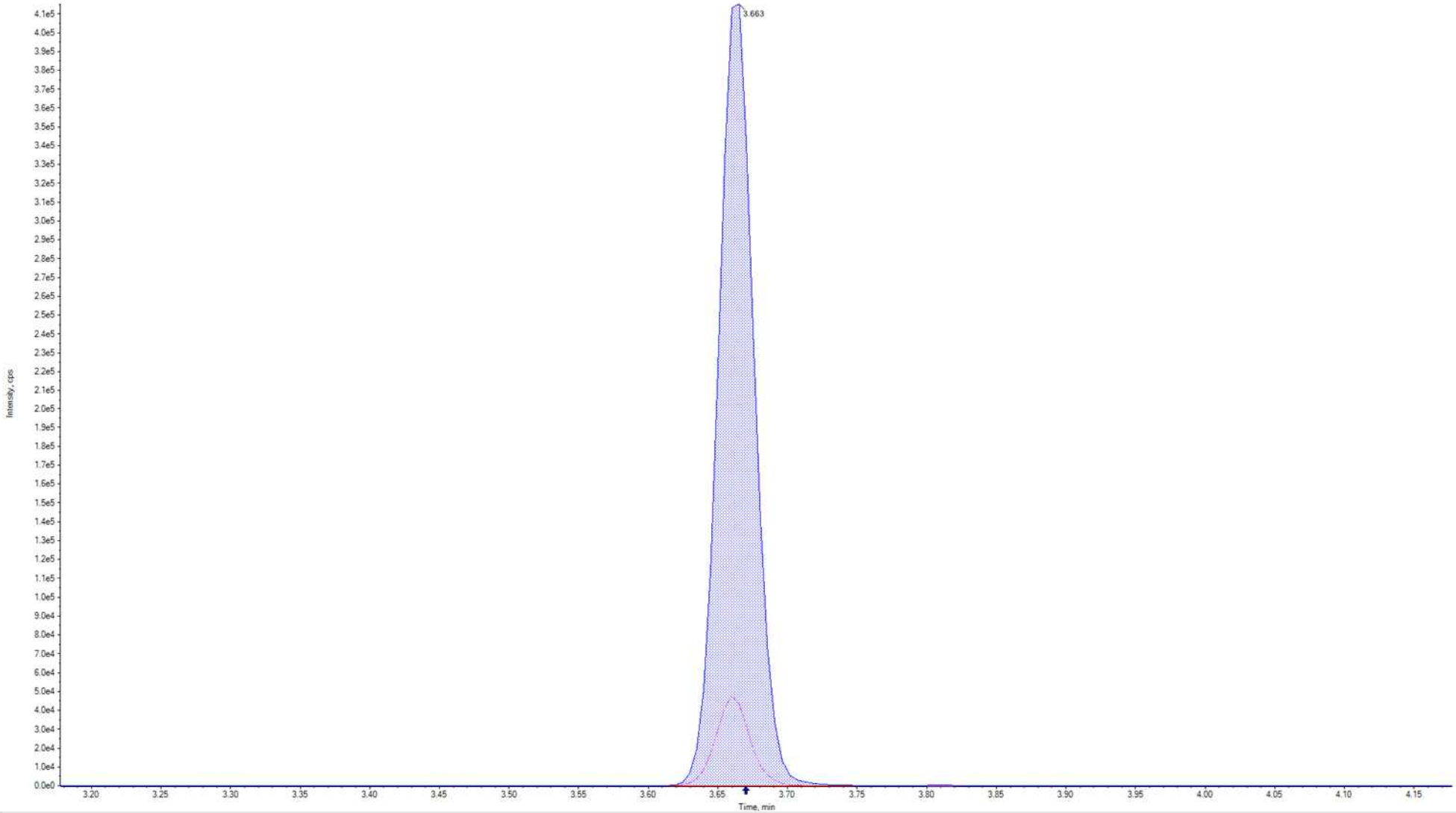
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

8:2FTS
Sample: IA1633STD-12.5 S/N:6069.4 Points Across peak:28



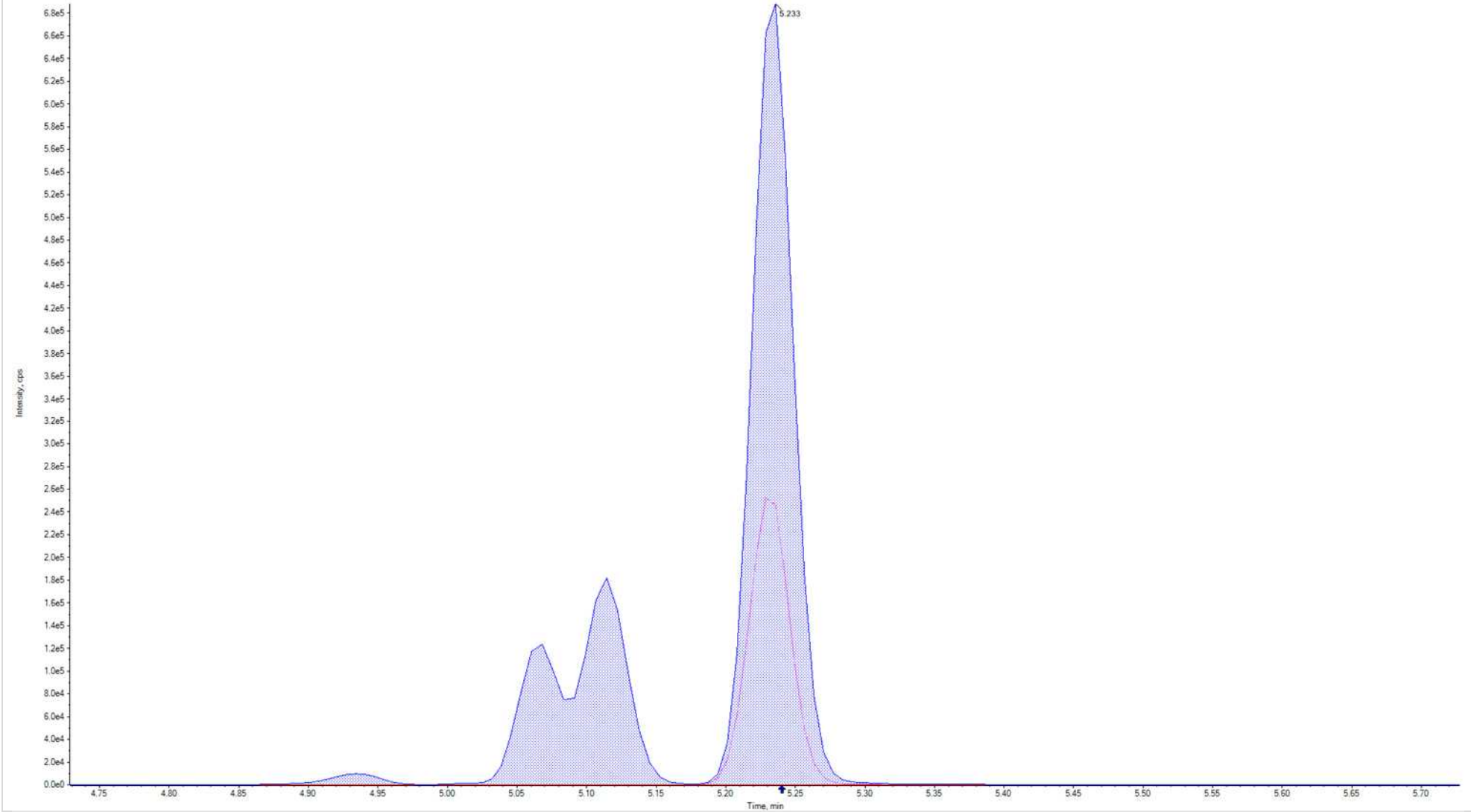
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

8:2FTS_2
Sample: IA1633STD-12.5 S/N:6771.6 Points Across peak:30



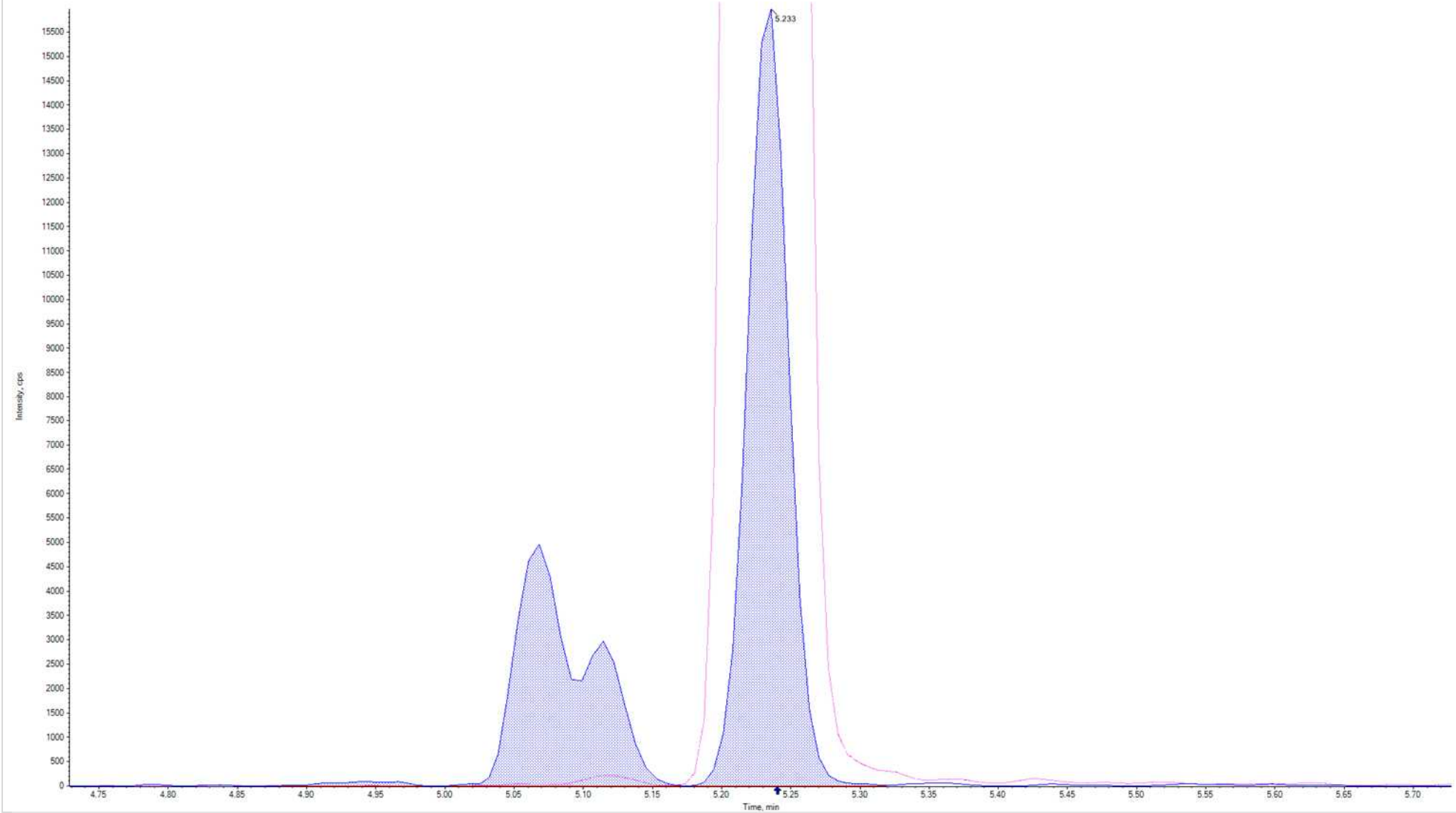
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOSA
Sample: IA1633STD-12.5 S/N:353.3 Points Across peak:82



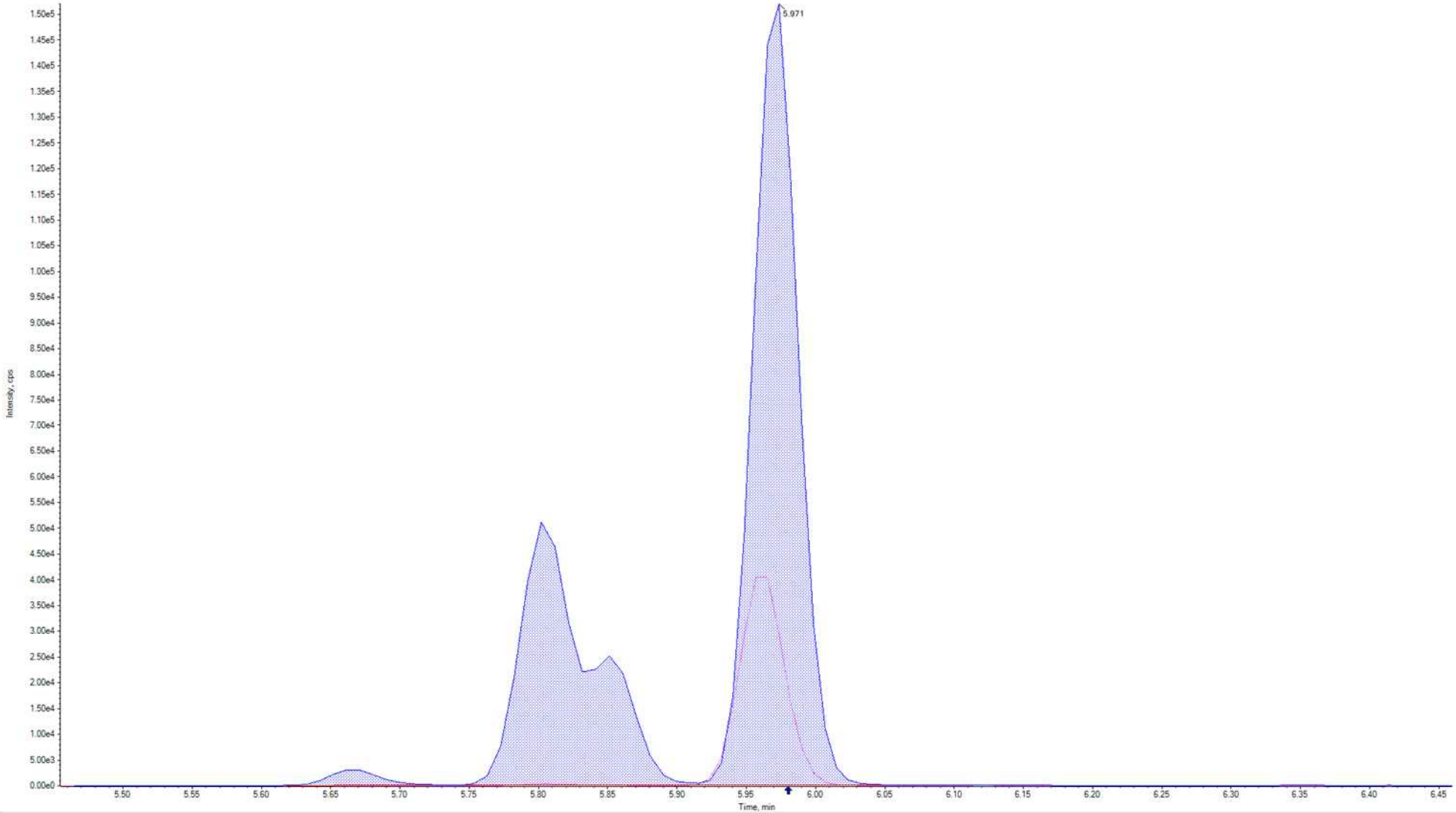
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFOSA_2
Sample: IA1633STD-12.5 S/N:347.8 Points Across peak:65



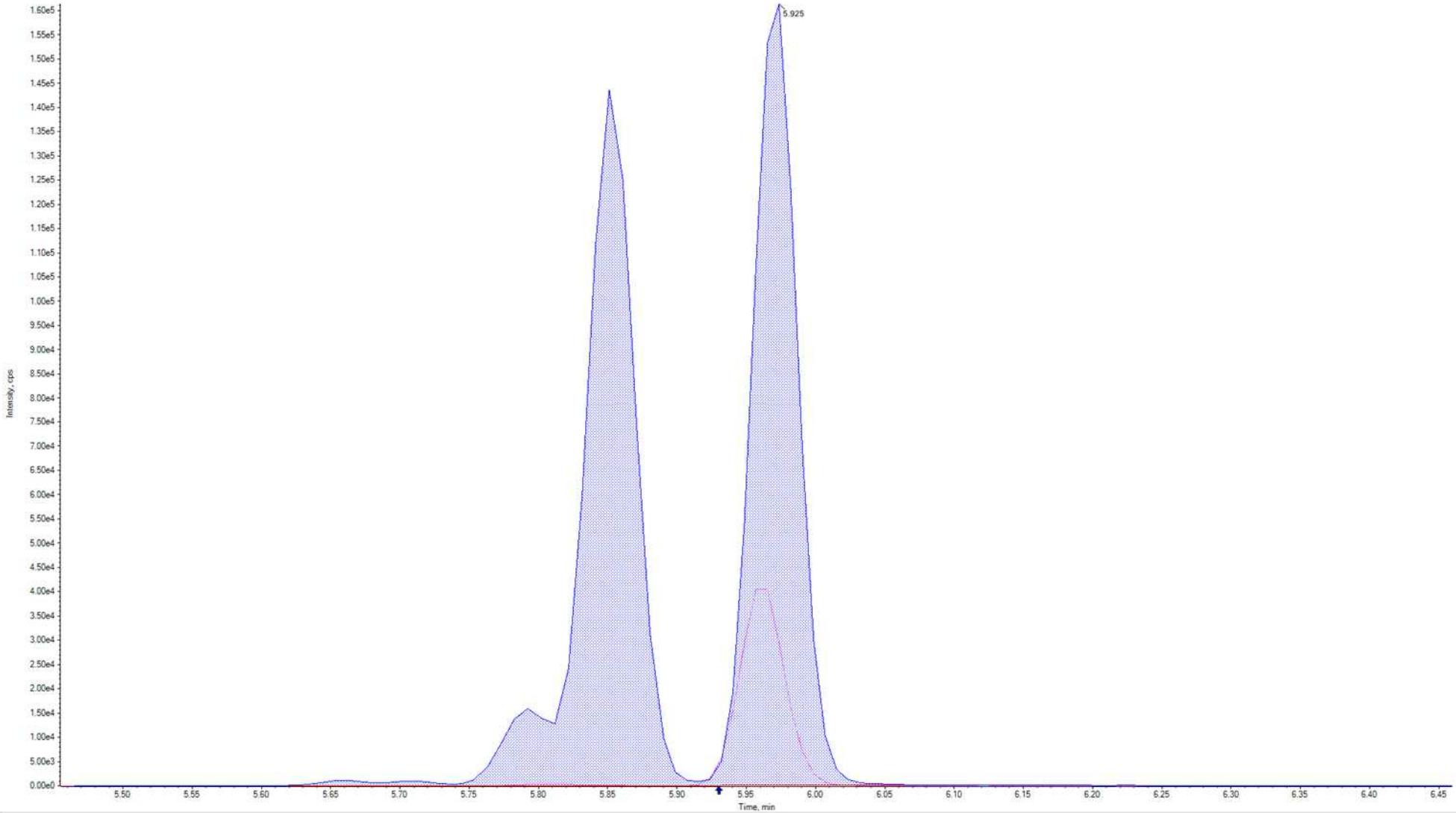
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NMeFOSA
Sample: IA1633STD-12.5 S/N:354.9 Points Across peak:50



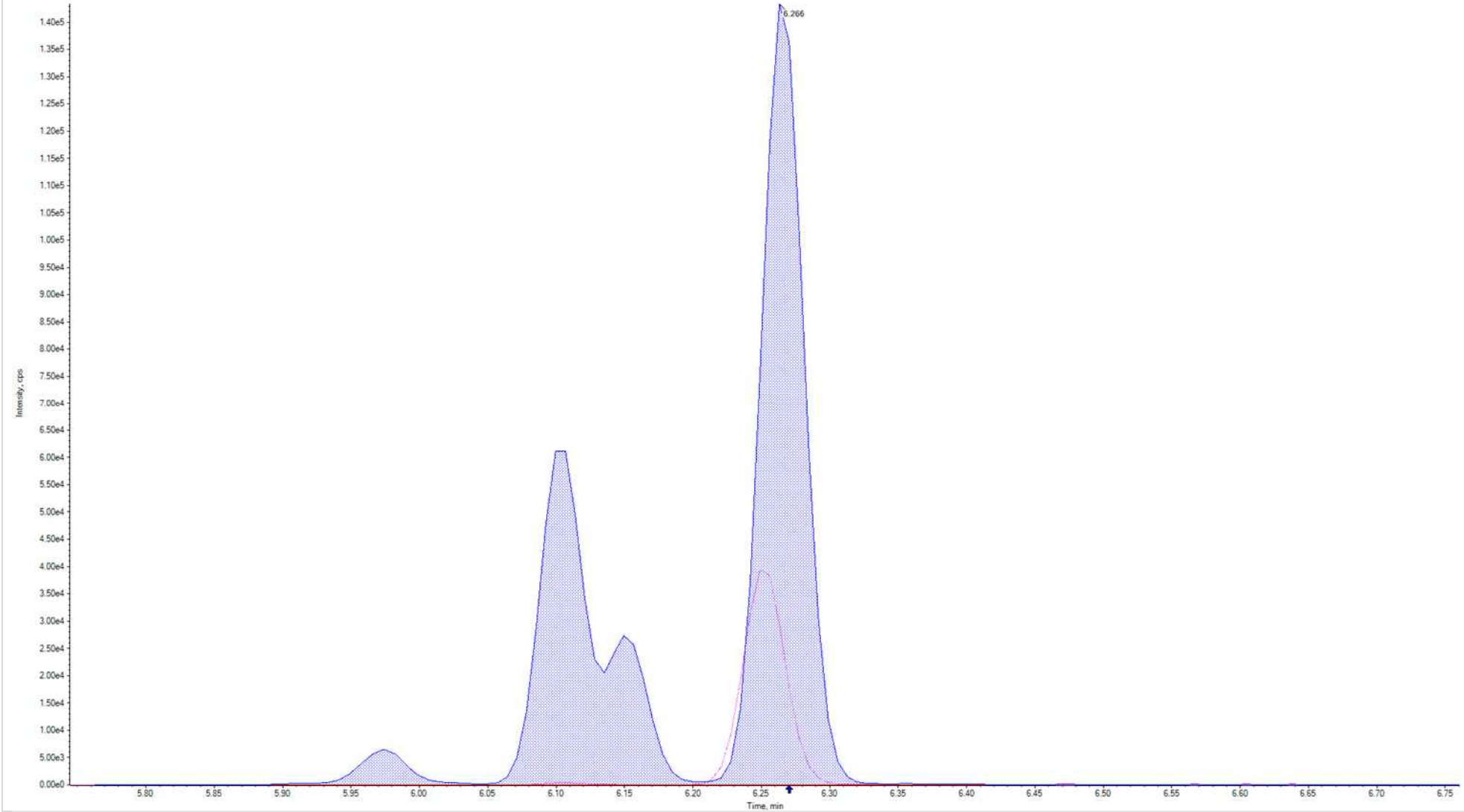
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Alpha Analytical LLC
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NMeFOSA_2
Sample: IA1633STD-12.5 S/N:309.7 Points Across peak:54



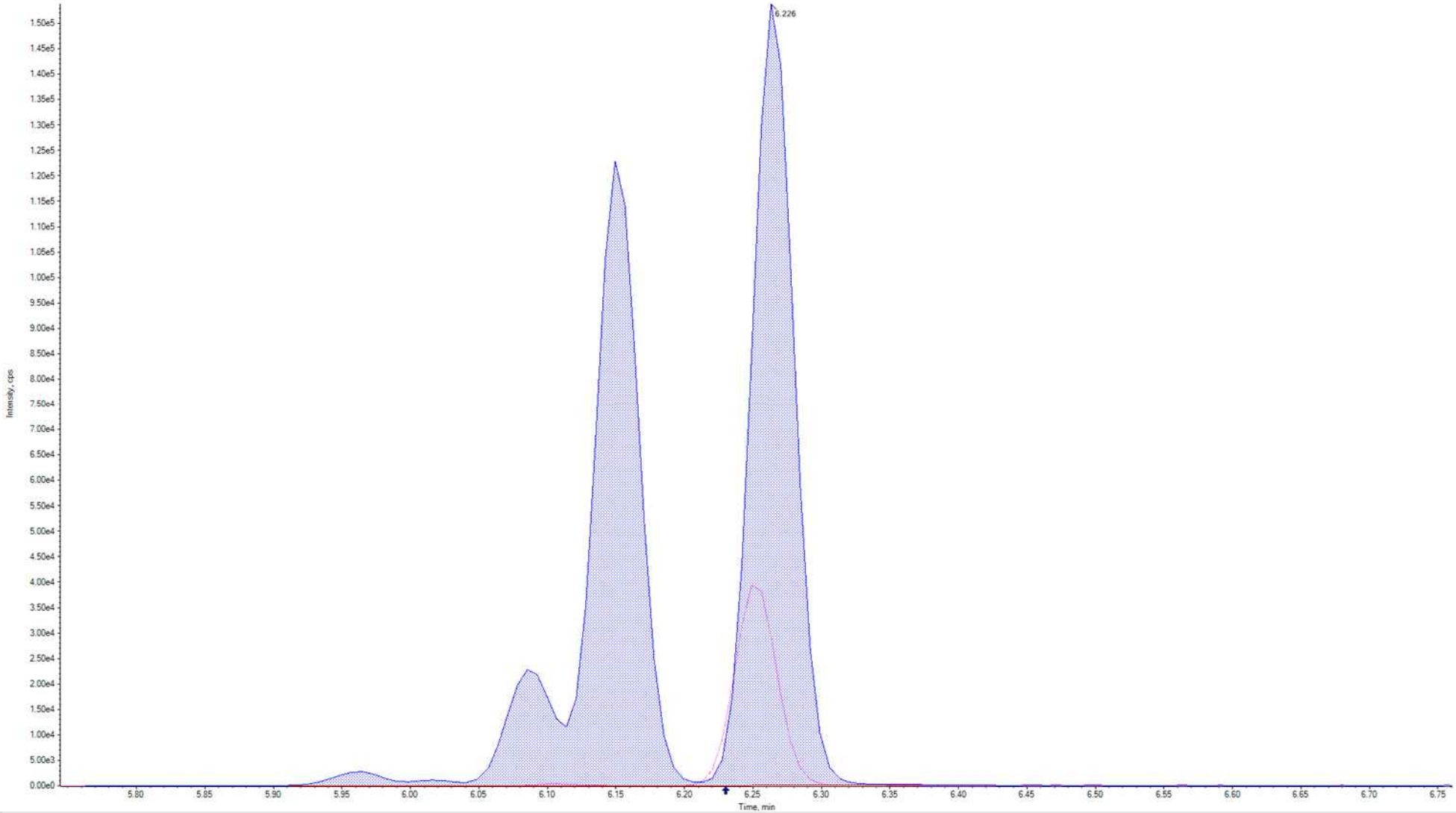
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSA
Sample: IA1633STD-12.5 S/N:736.7 Points Across peak:77



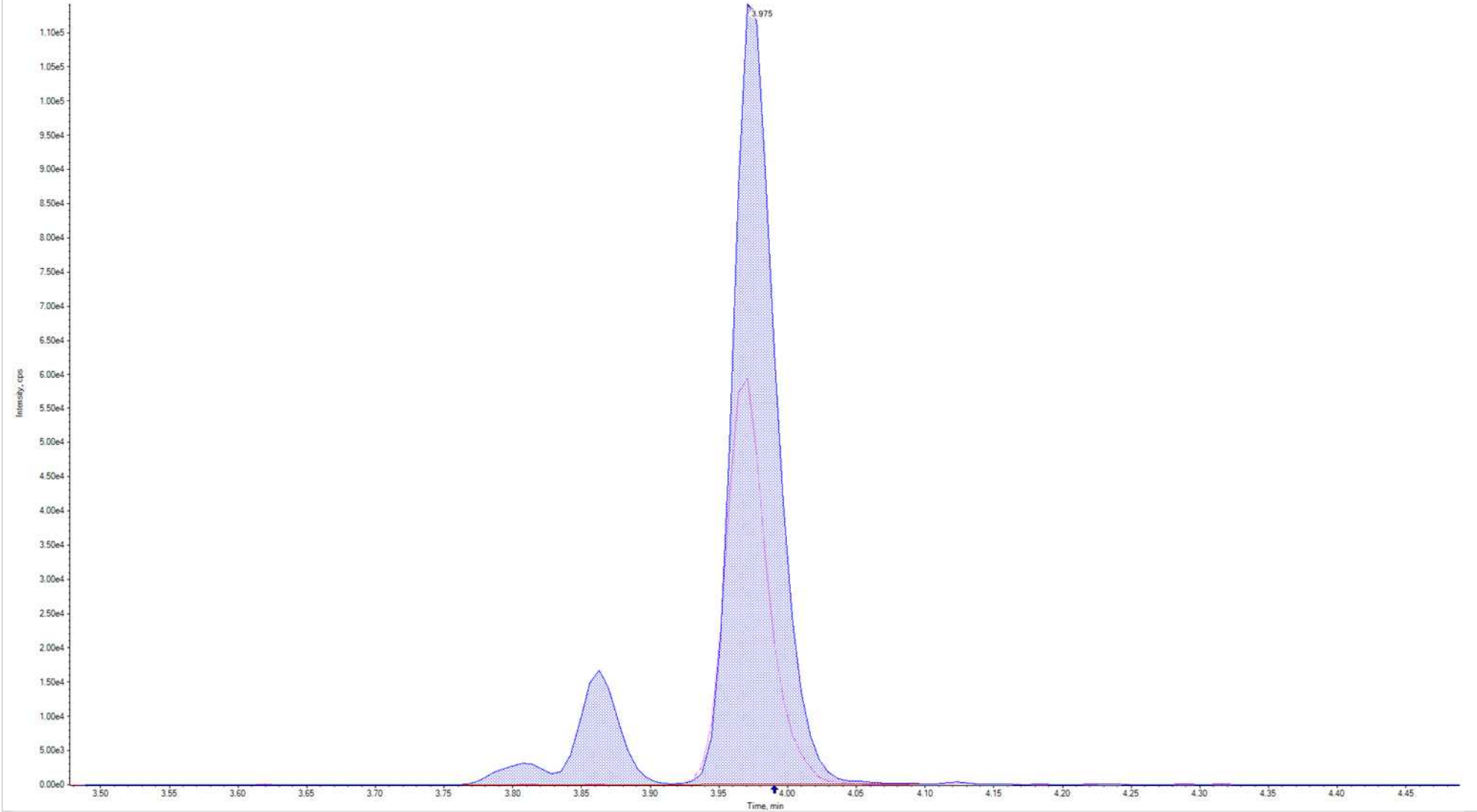
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSA_2
Sample: IA1633STD-12.5 S/N:585.3 Points Across peak:70



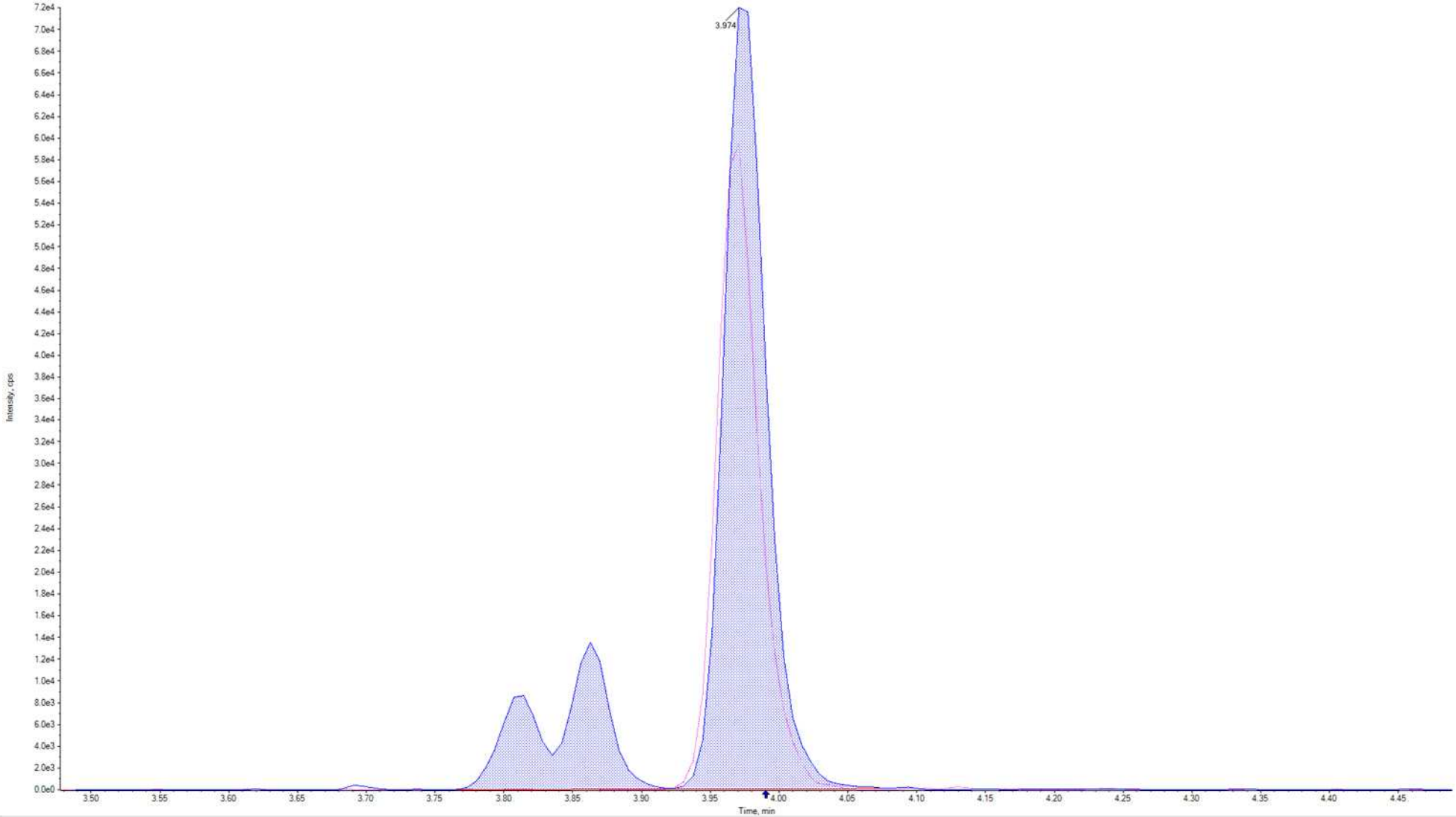
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSAA
Sample: IA1633STD-12.5 S/N:720.0 Points Across peak:54



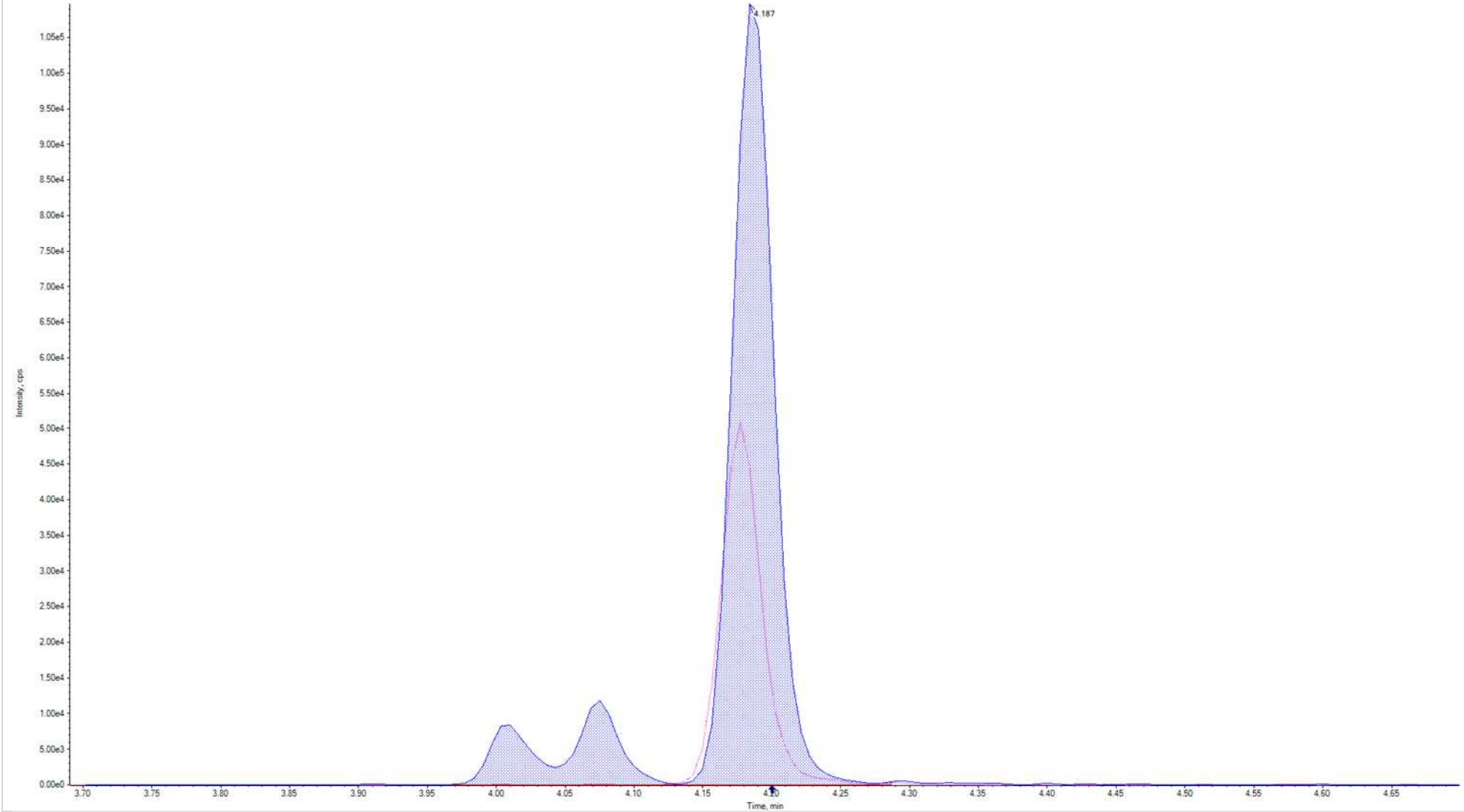
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NMeFOSAA_2
Sample: IA1633STD-12.5 S/N:462.2 Points Across peak:50



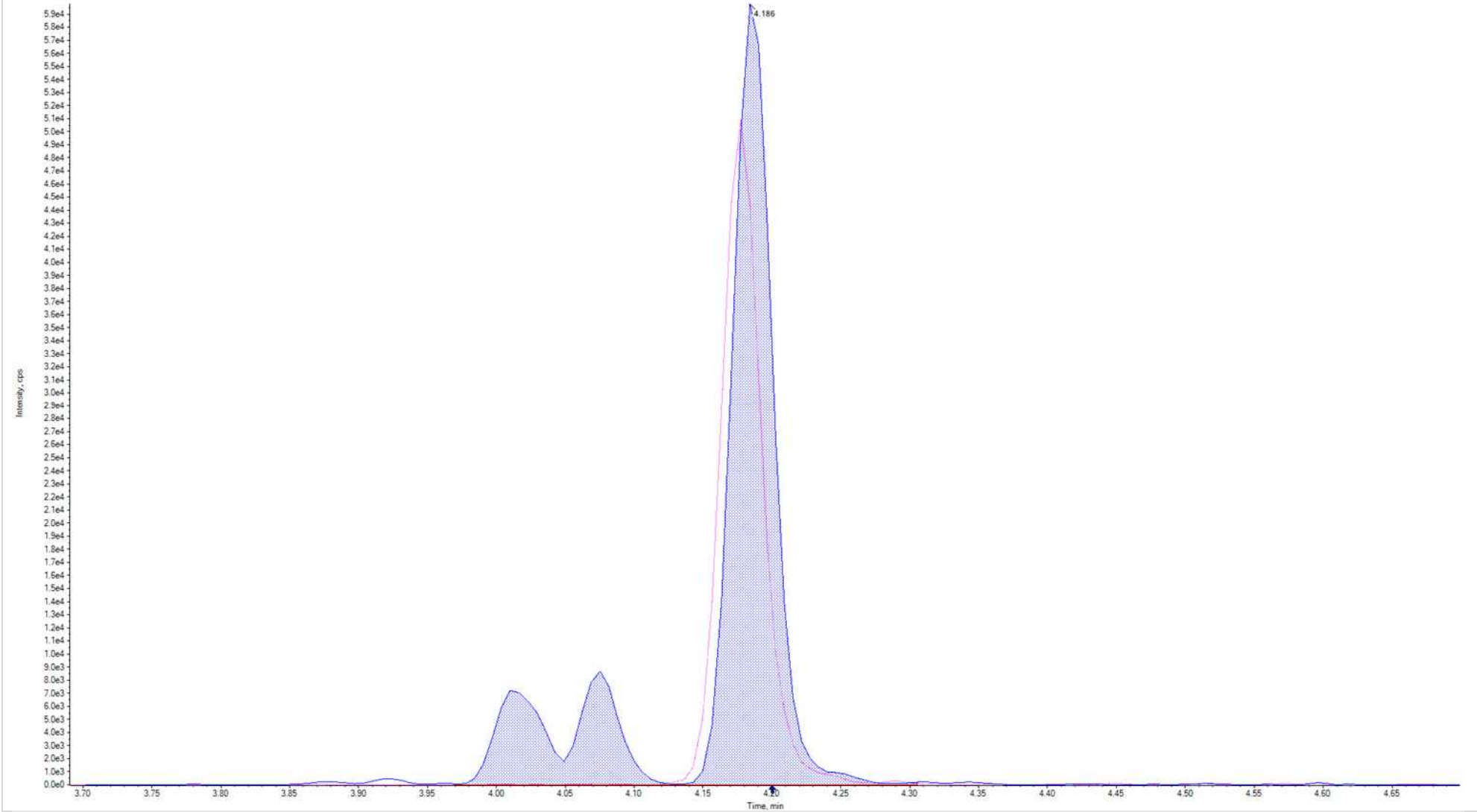
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSAA
Sample: IA1633STD-12.5 S/N:667.6 Points Across peak:53



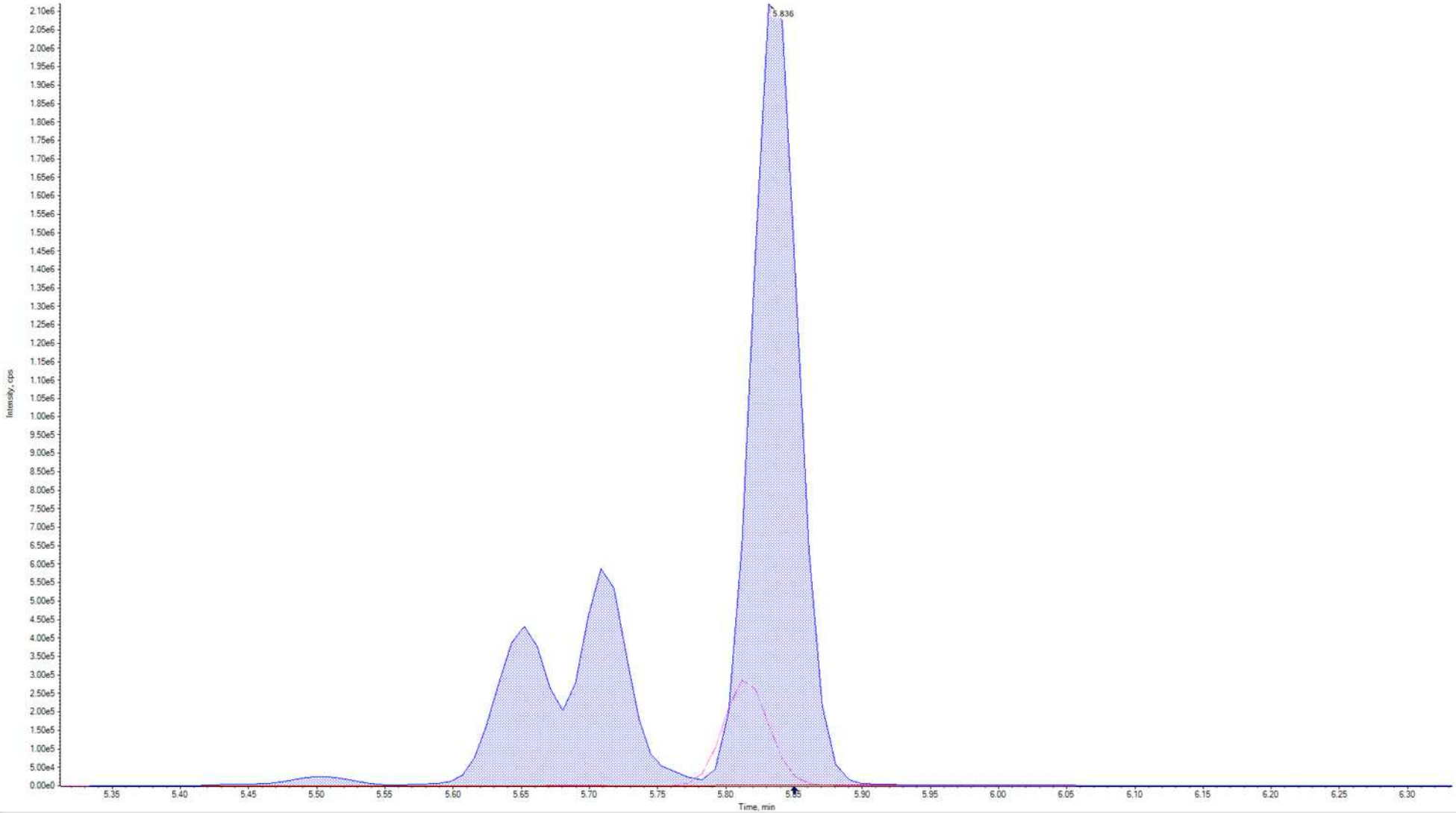
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Alpha Analytical LLC
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NEtFOSAA_2
Sample: IA1633STD-12.5 S/N:434.9 Points Across peak:55



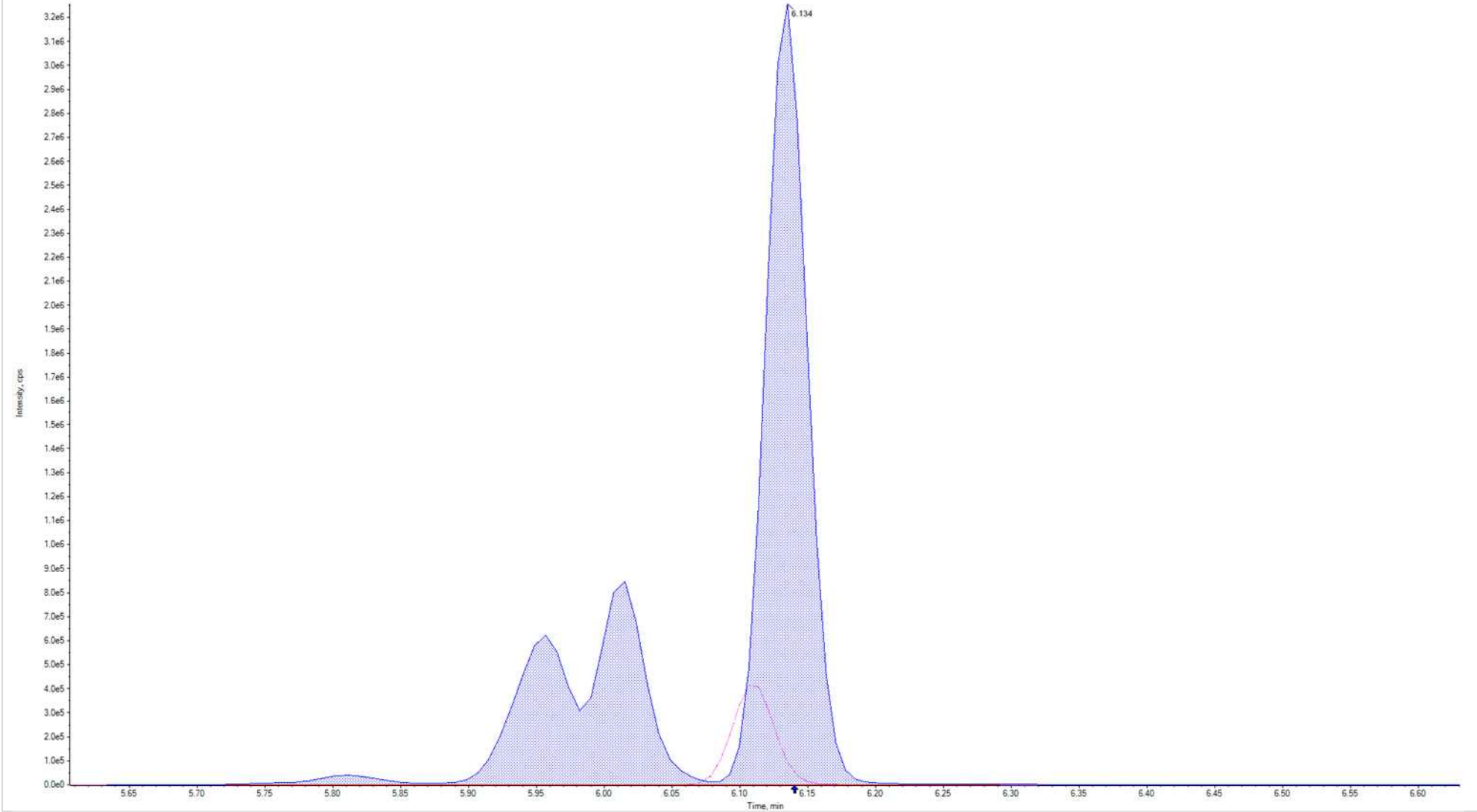
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSE
Sample: IA1633STD-12.5 S/N:242.4 Points Across peak:63



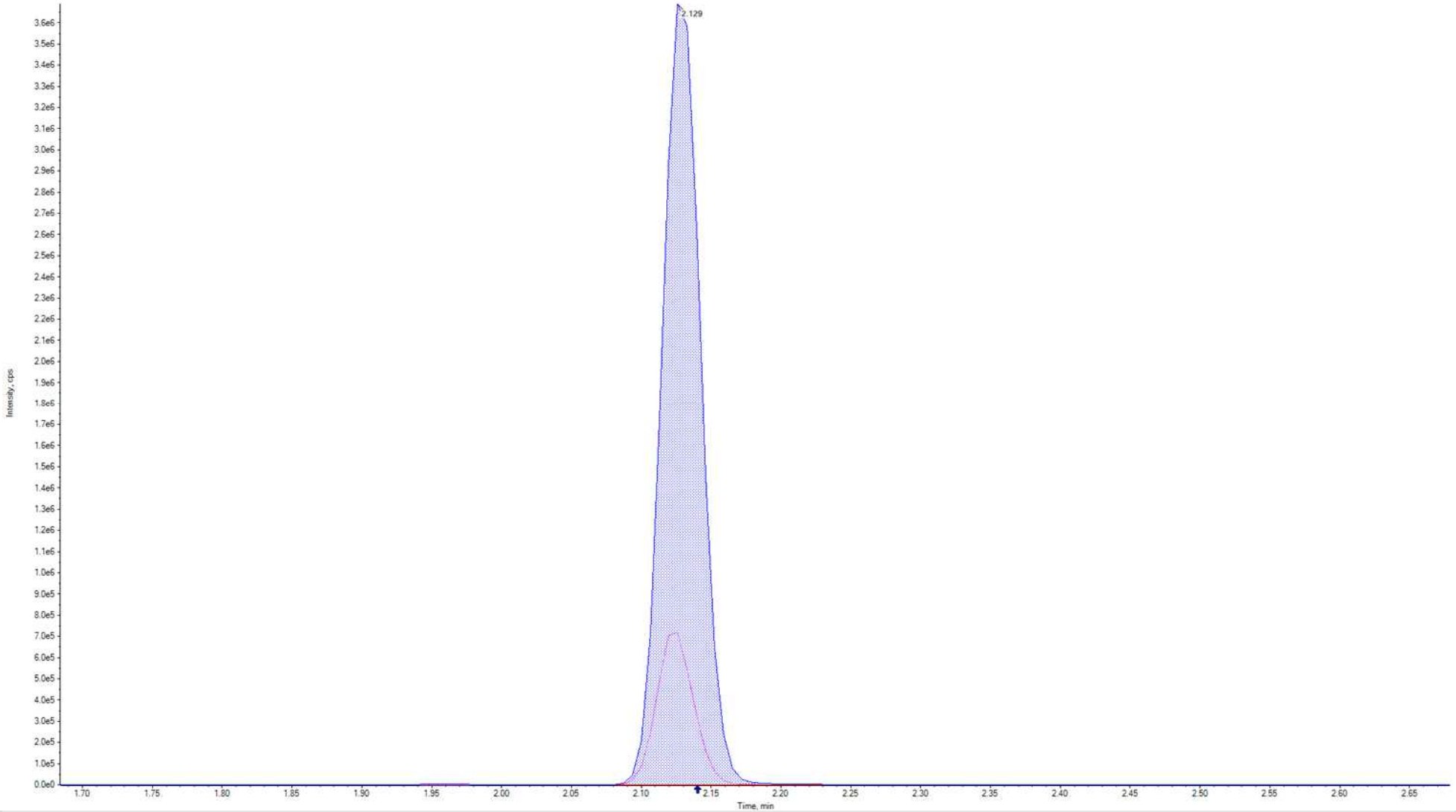
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

NEtFOSE
Sample: IA1633STD-12.5 S/N:415.0 Points Across peak:75



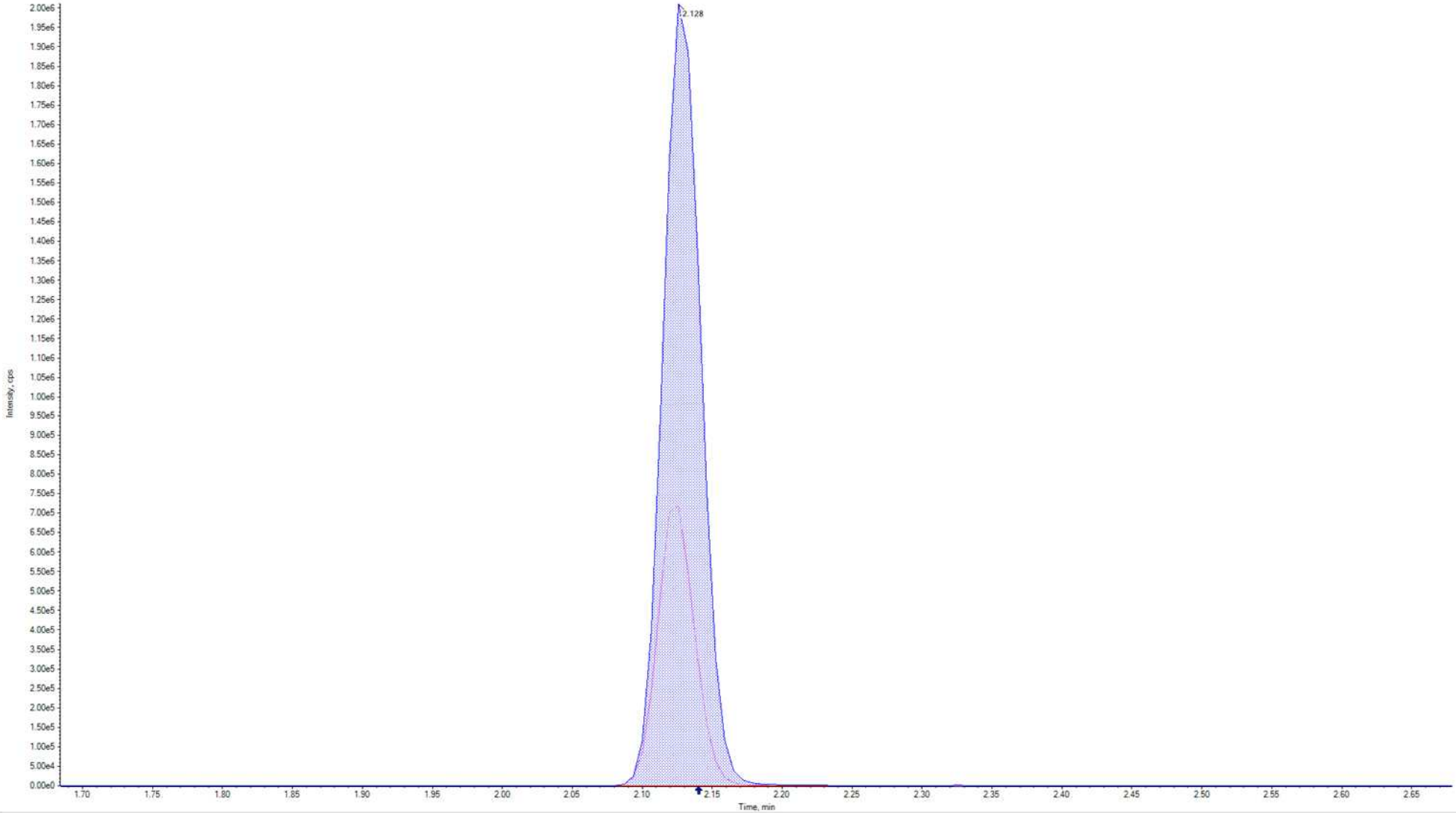
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

HFPO-DA
Sample: IA1633STD-12.5 S/N:83224.7 Points Across peak:42



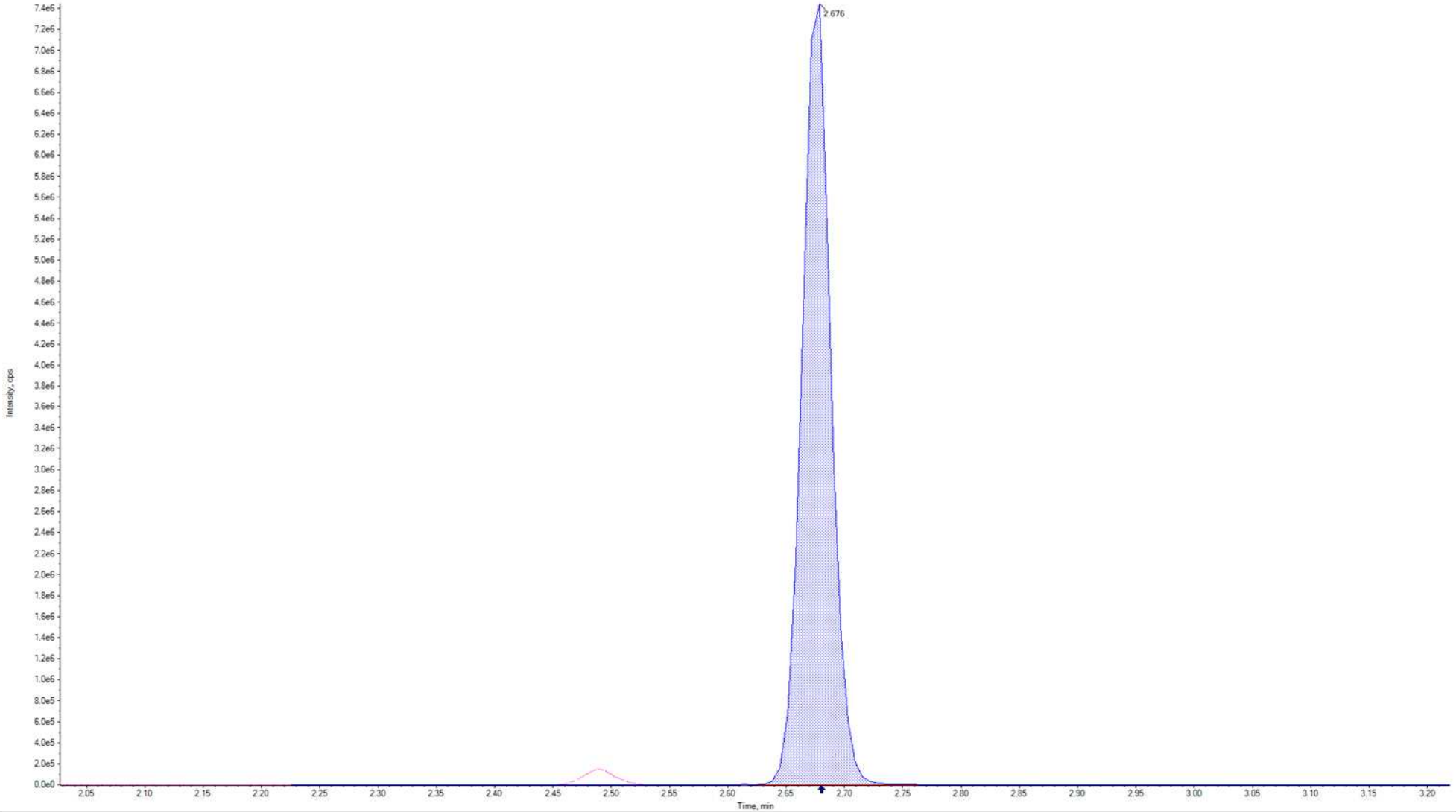
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
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HFPO-DA_2
Sample: IA1633STD-12.5 S/N:4105.2 Points Across peak:29



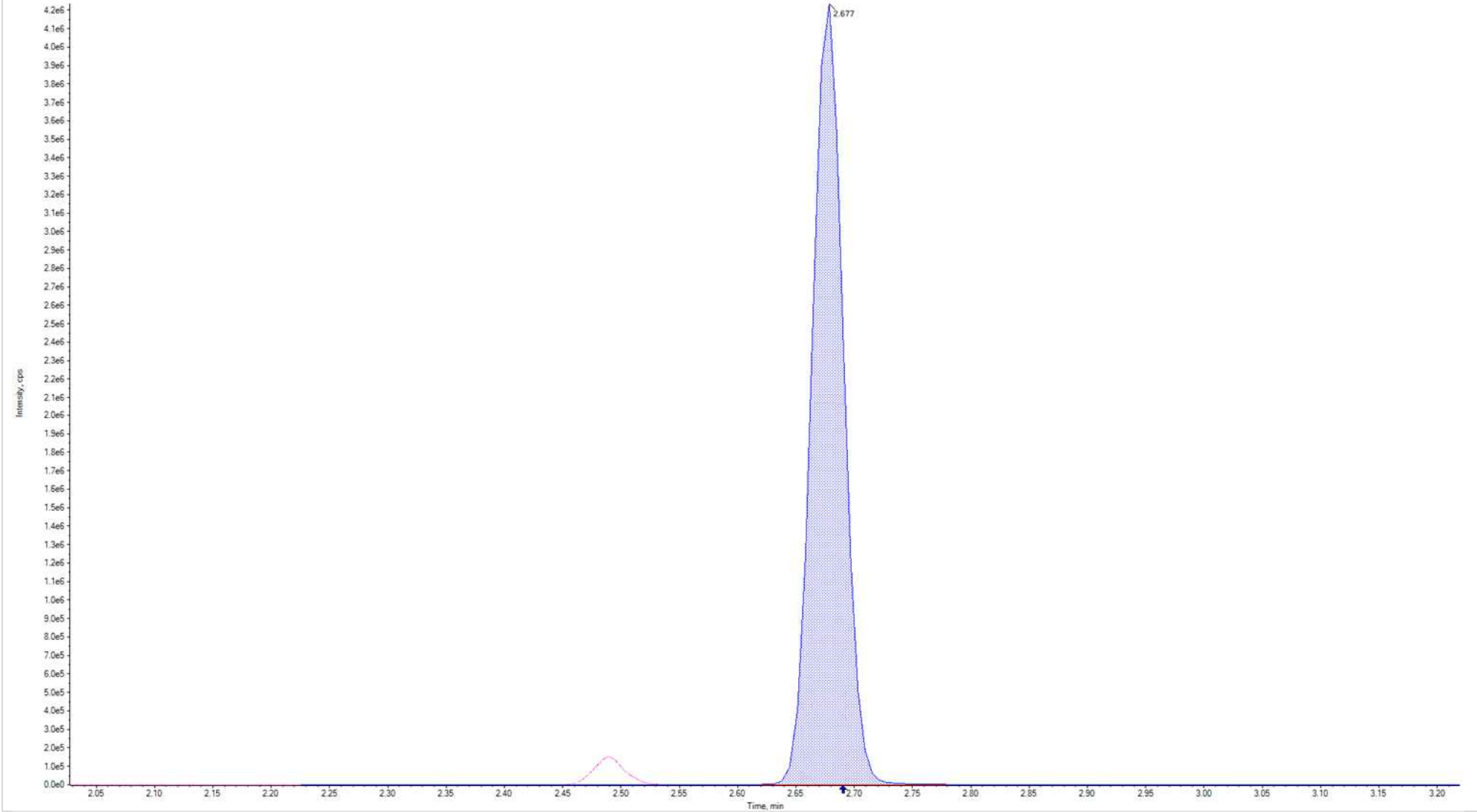
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

ADONA
Sample: IA1633STD-12.5 S/N:114841.1 Points Across peak:31



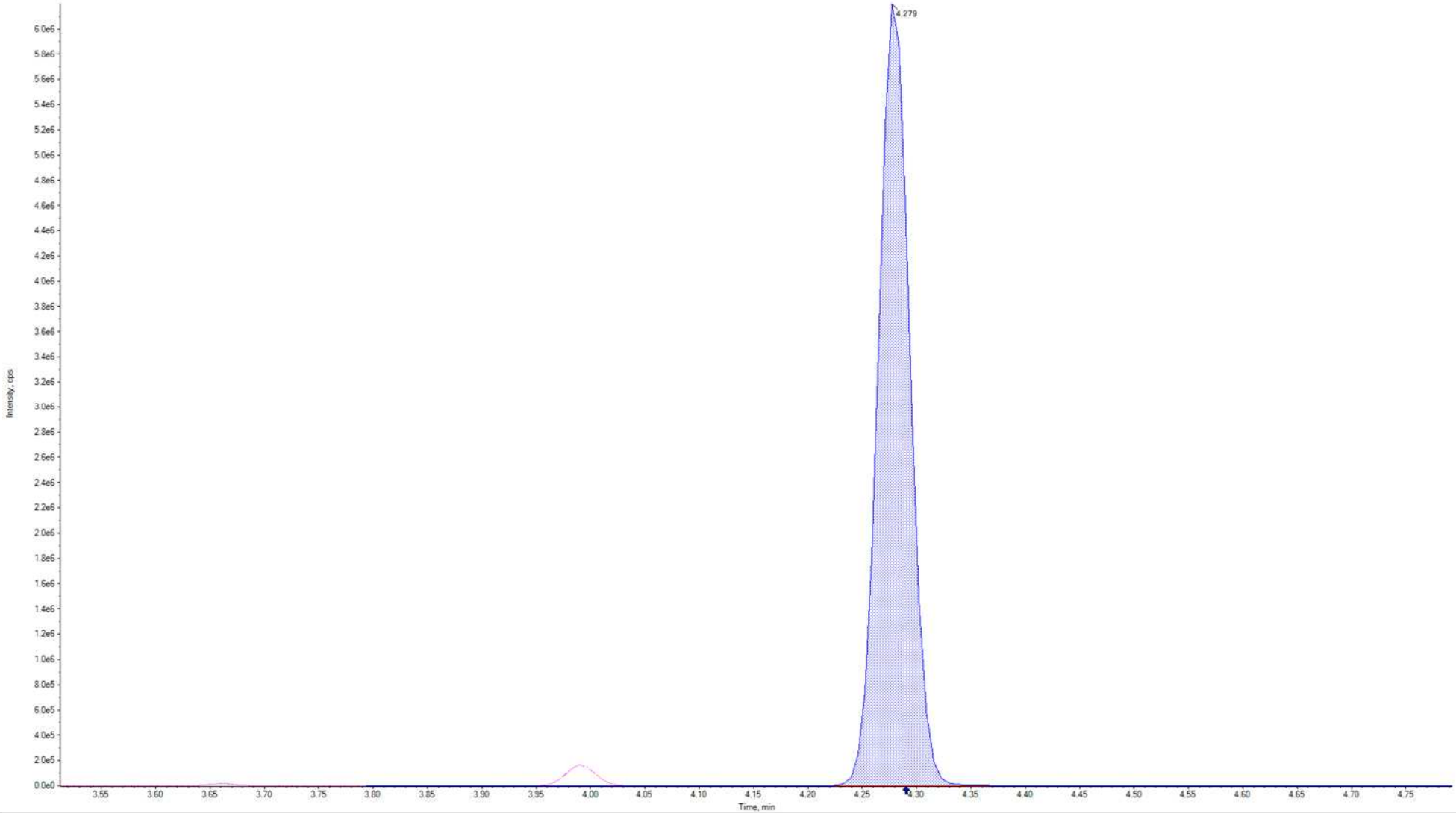
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
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ADONA_2
Sample: IA1633STD-12.5 S/N:84905.7 Points Across peak:39



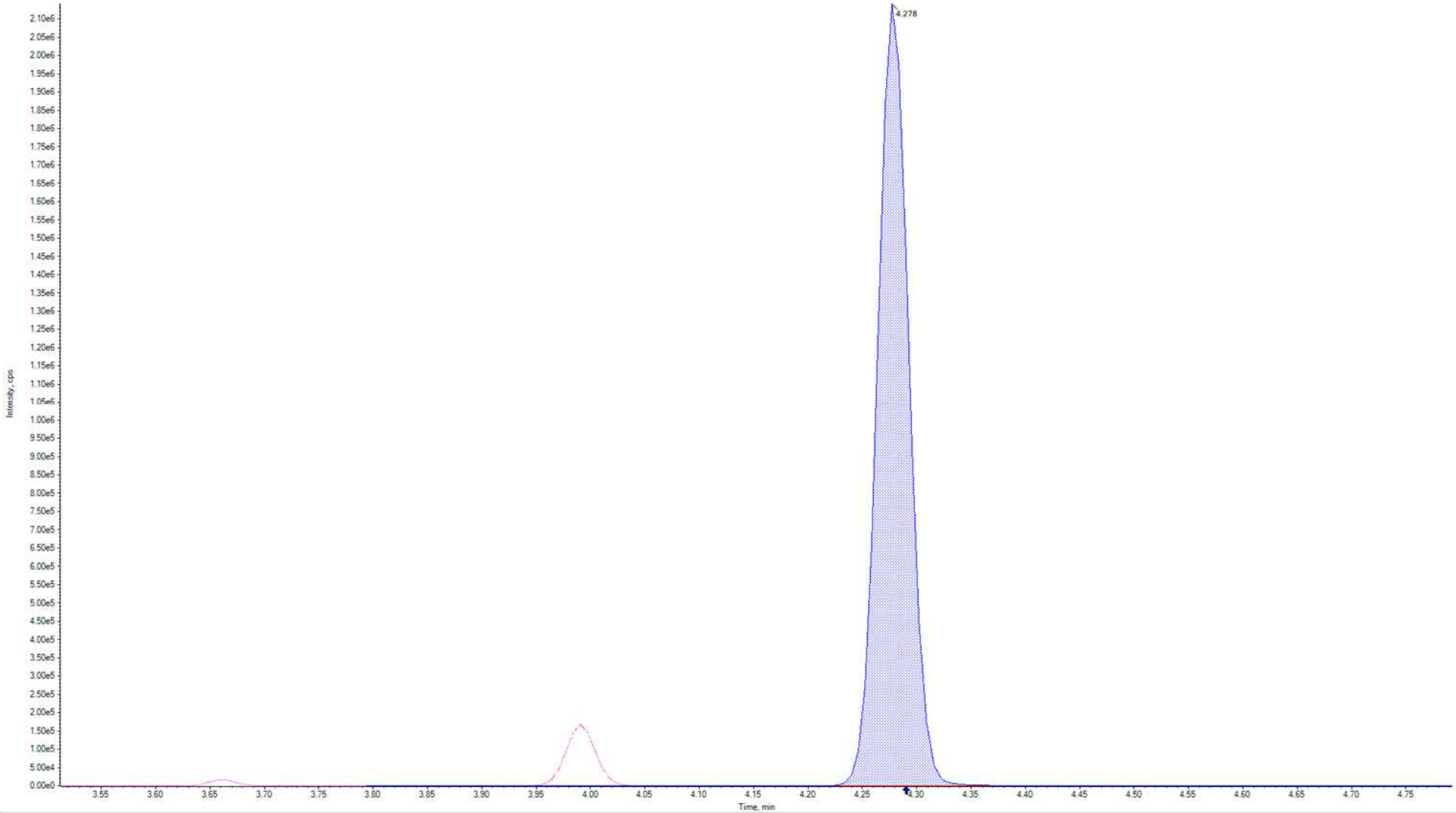
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS
Sample: IA1633STD-12.5 S/N:9177.7 Points Across peak:33



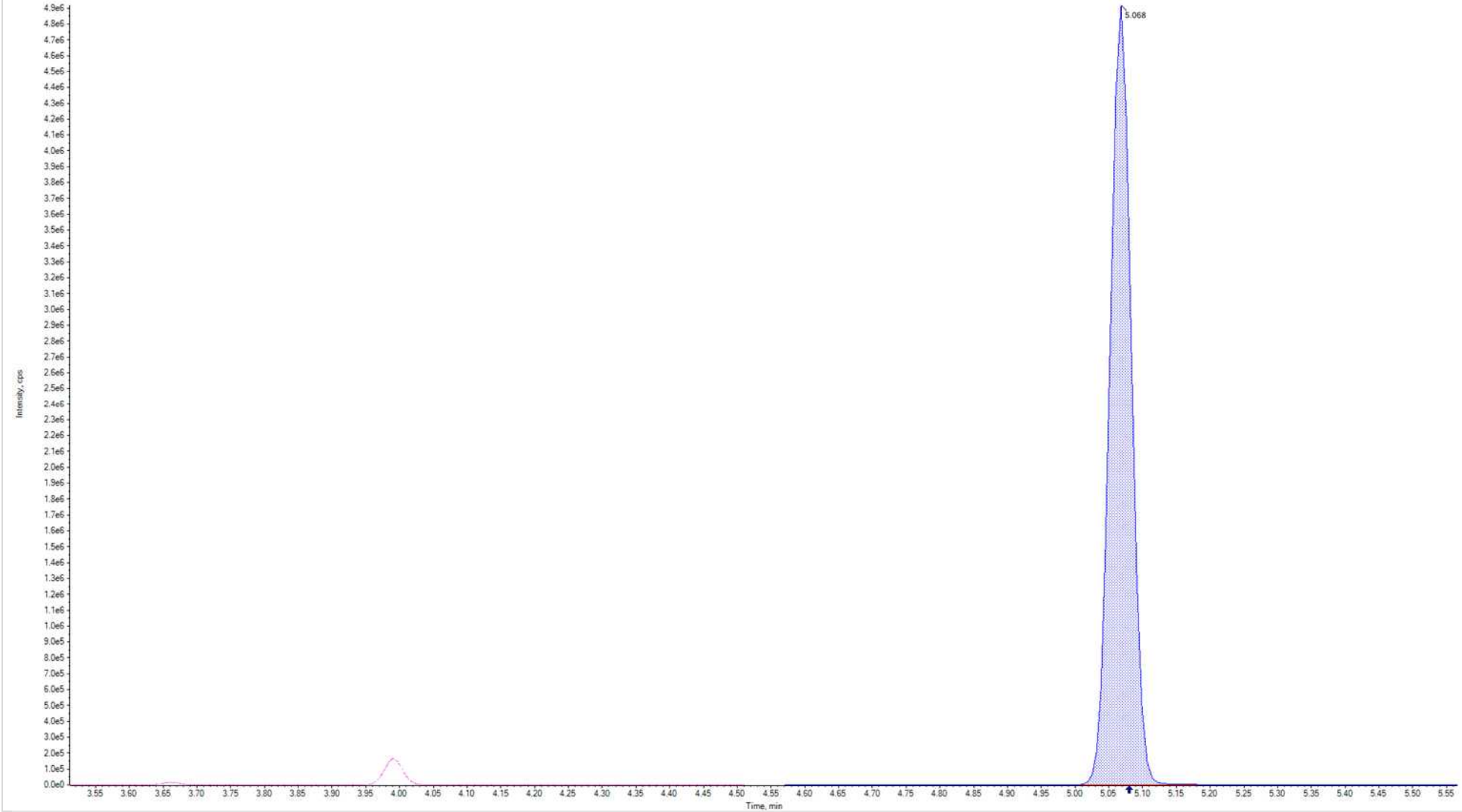
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS_2
Sample: IA1633STD-12.5 S/N:6801.3 Points Across peak:32



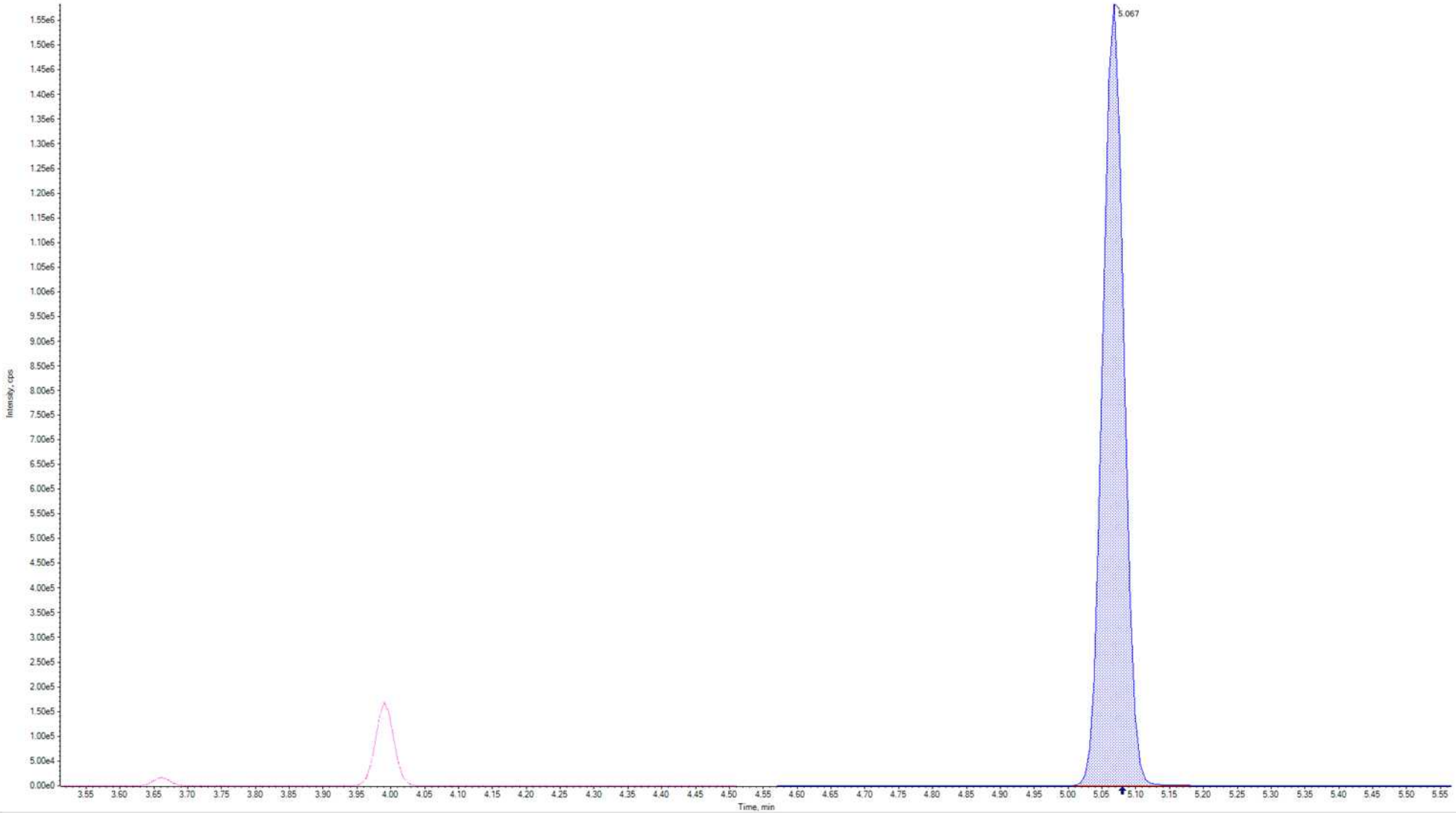
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

11Cl-PF3OUdS
Sample: IA1633STD-12.5 S/N:7748.8 Points Across peak:35



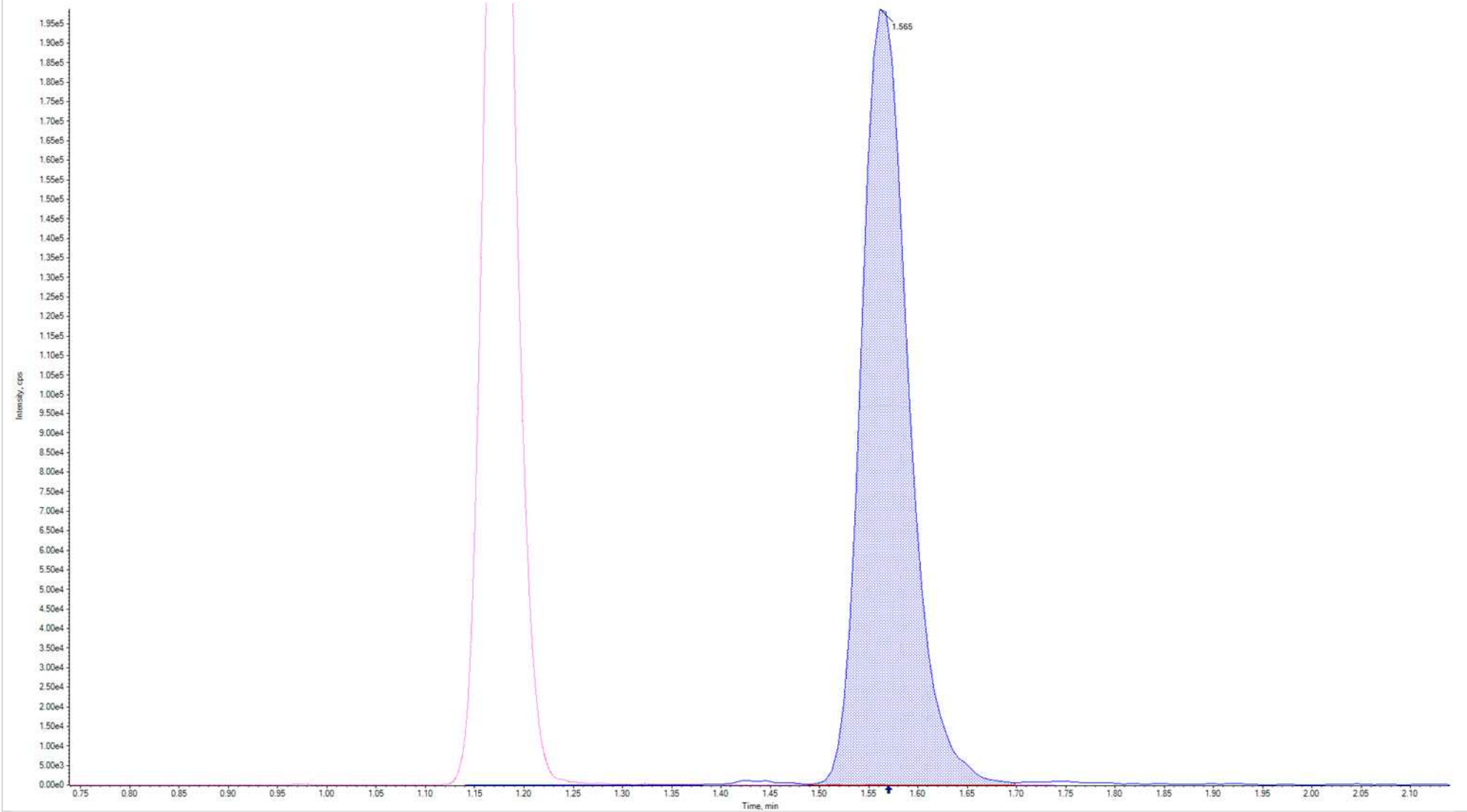
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

11Cl-PF3OUdS_2
Sample: IA1633STD-12.5 S/N:6510.9 Points Across peak:41



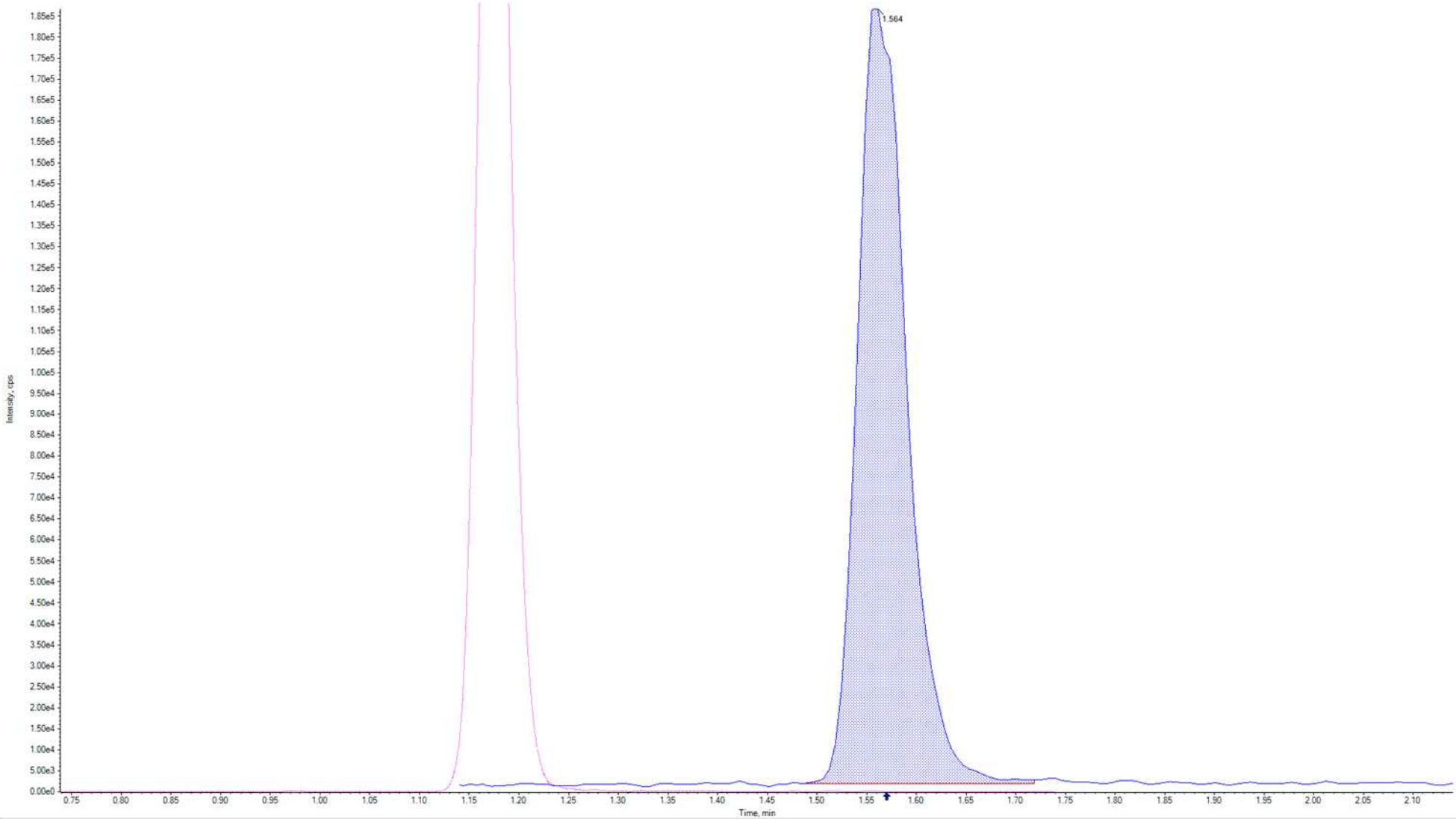
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_27.wiff2_6
Last Altered: 3/4/2025 6:51:07 AM
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3:3FTCA
Sample: IA1633STD-12.5 S/N:2120.0 Points Across peak:35



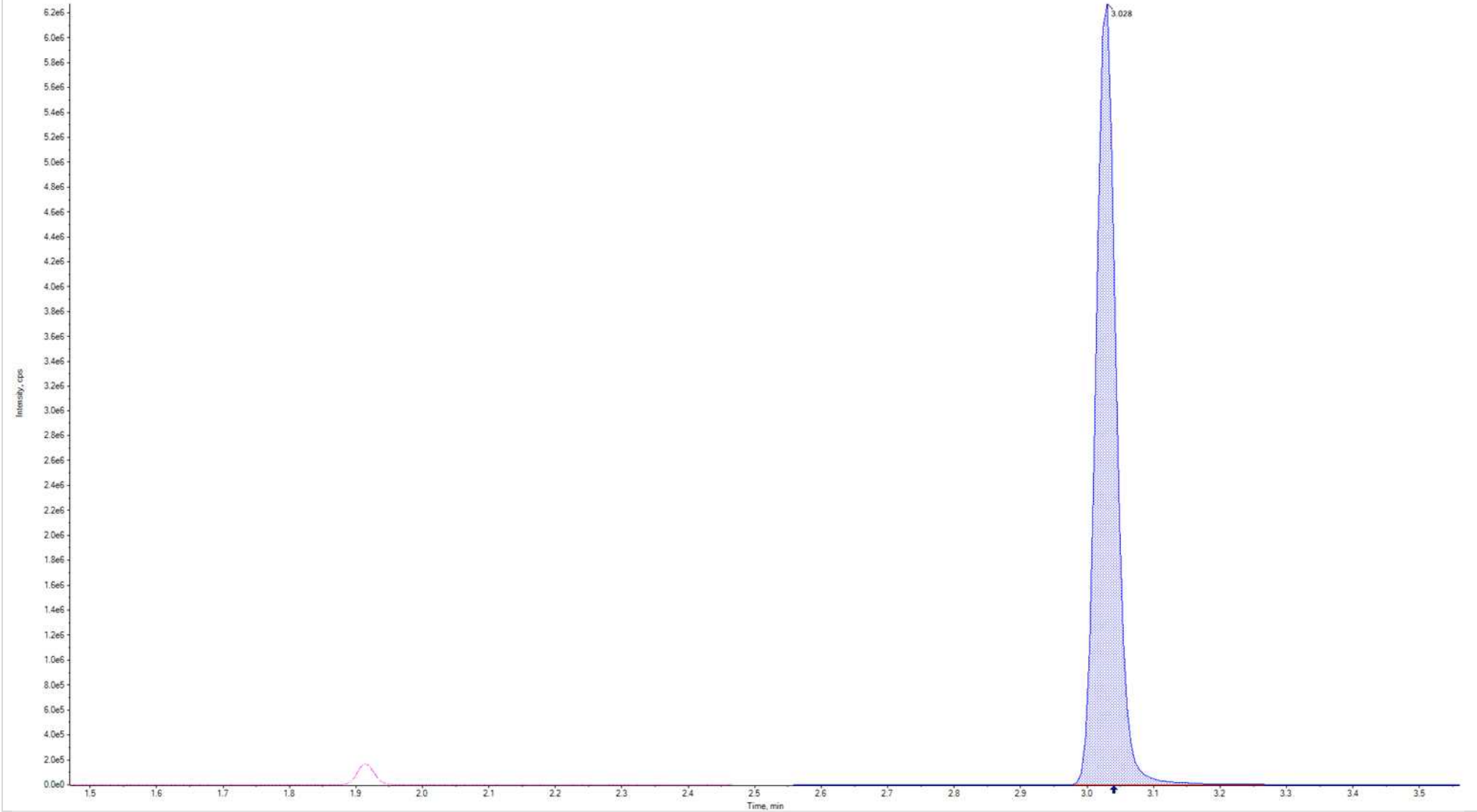
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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3:3FTCA_2
Sample: IA1633STD-12.5 S/N:752.8 Points Across peak:38



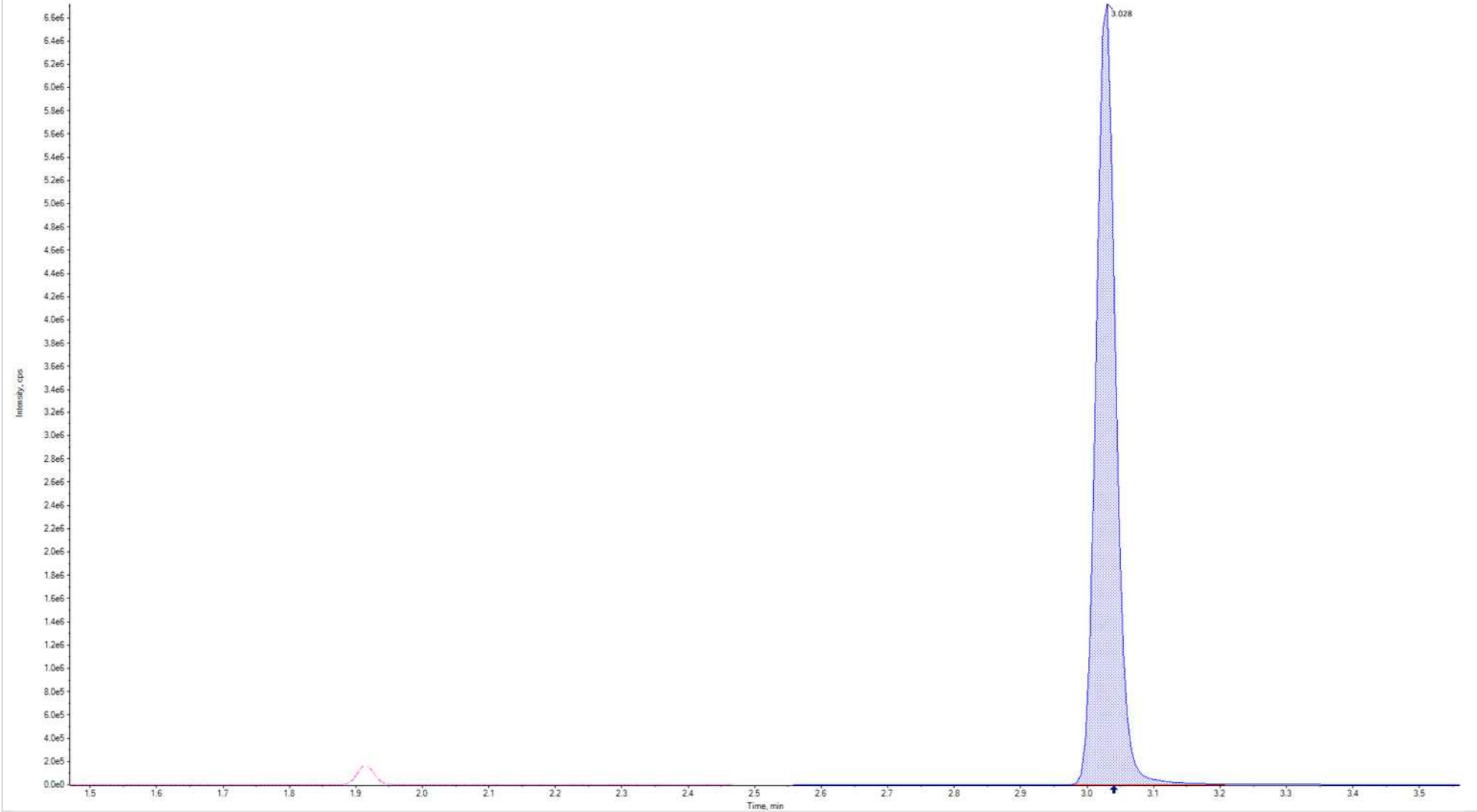
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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5:3FTCA
Sample: IA1633STD-12.5 S/N:118744.1 Points Across peak:59



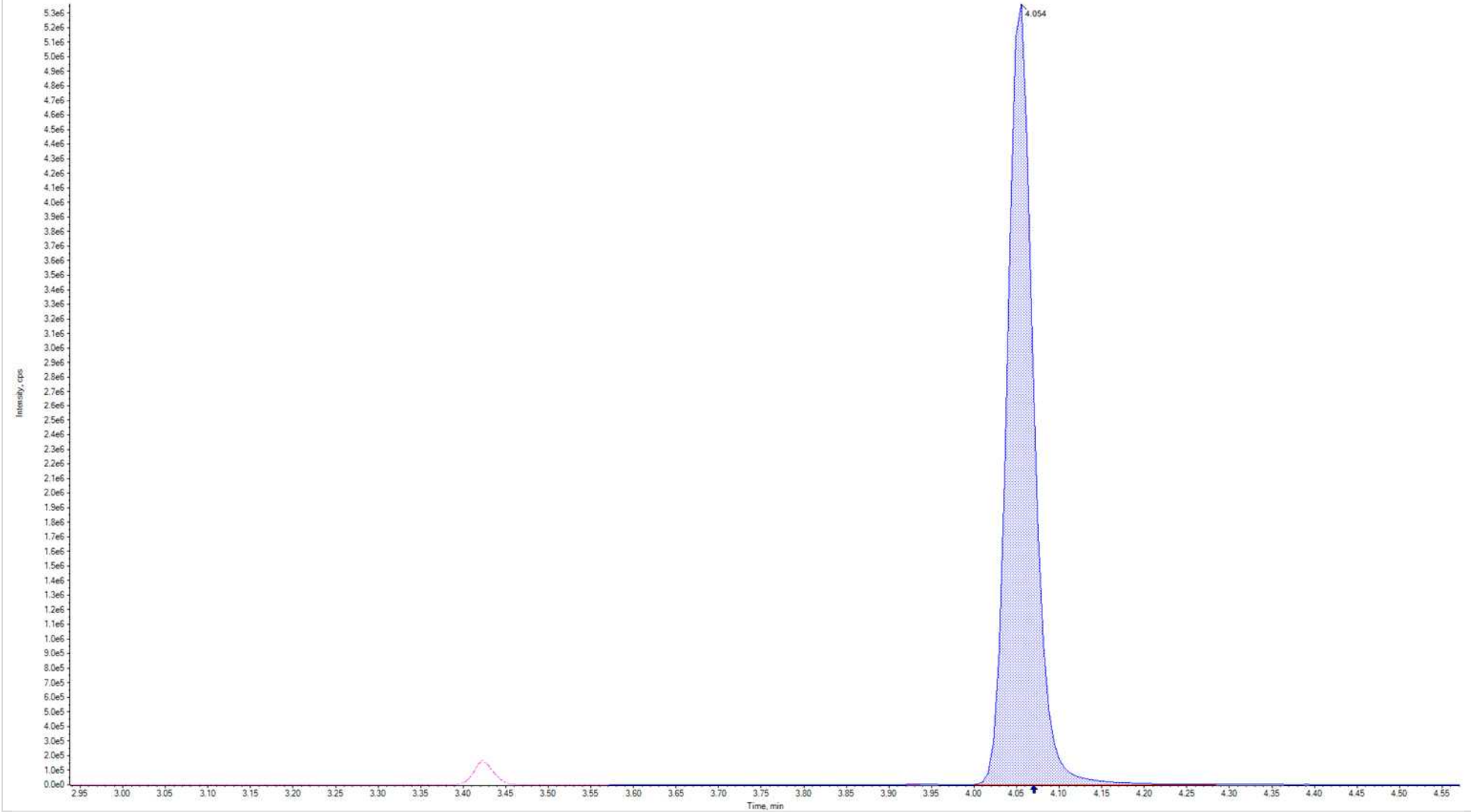
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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5:3FTCA_2
Sample: IA1633STD-12.5 S/N:9859.1 Points Across peak:46



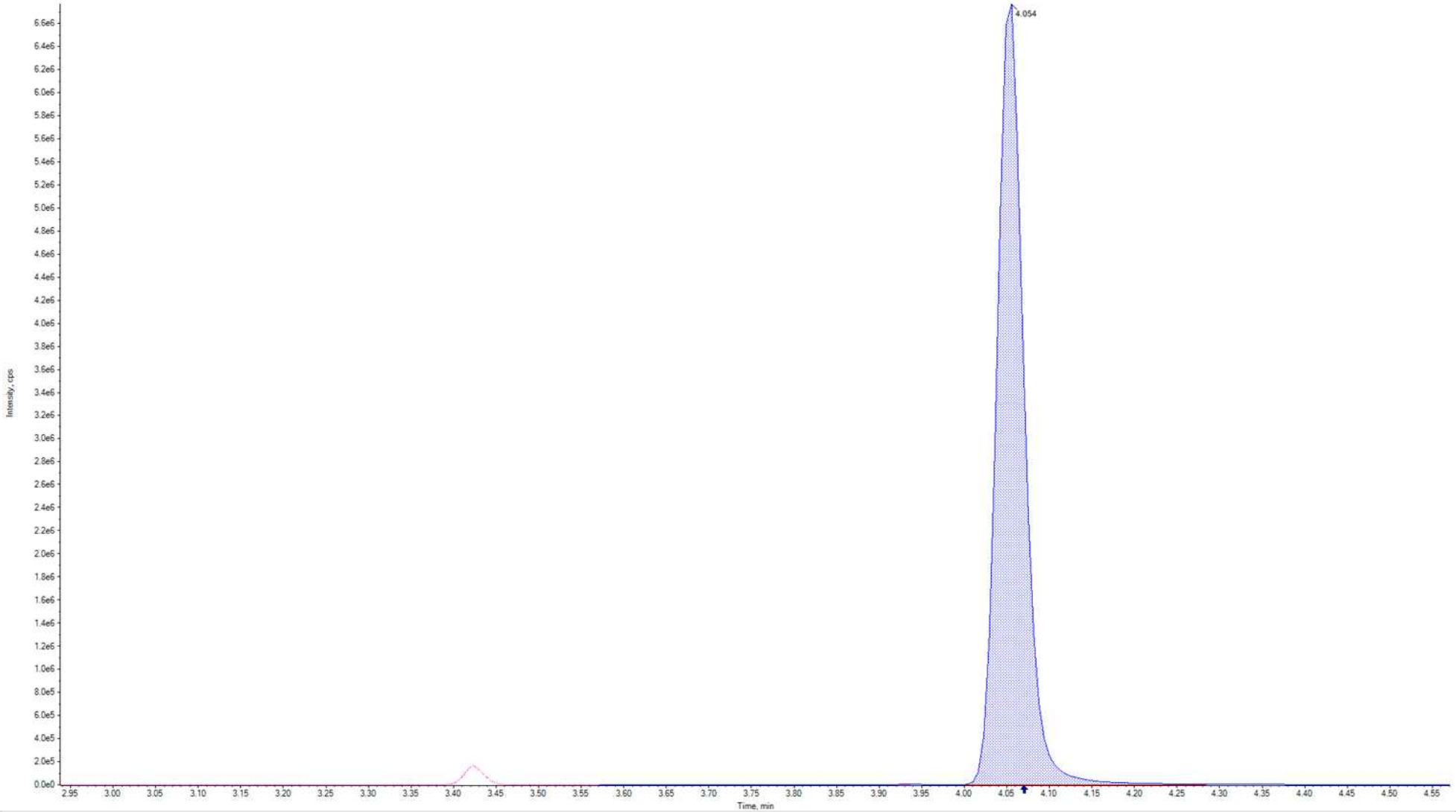
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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7:3FTCA
Sample: IA1633STD-12.5 S/N:147851.9 Points Across peak:47



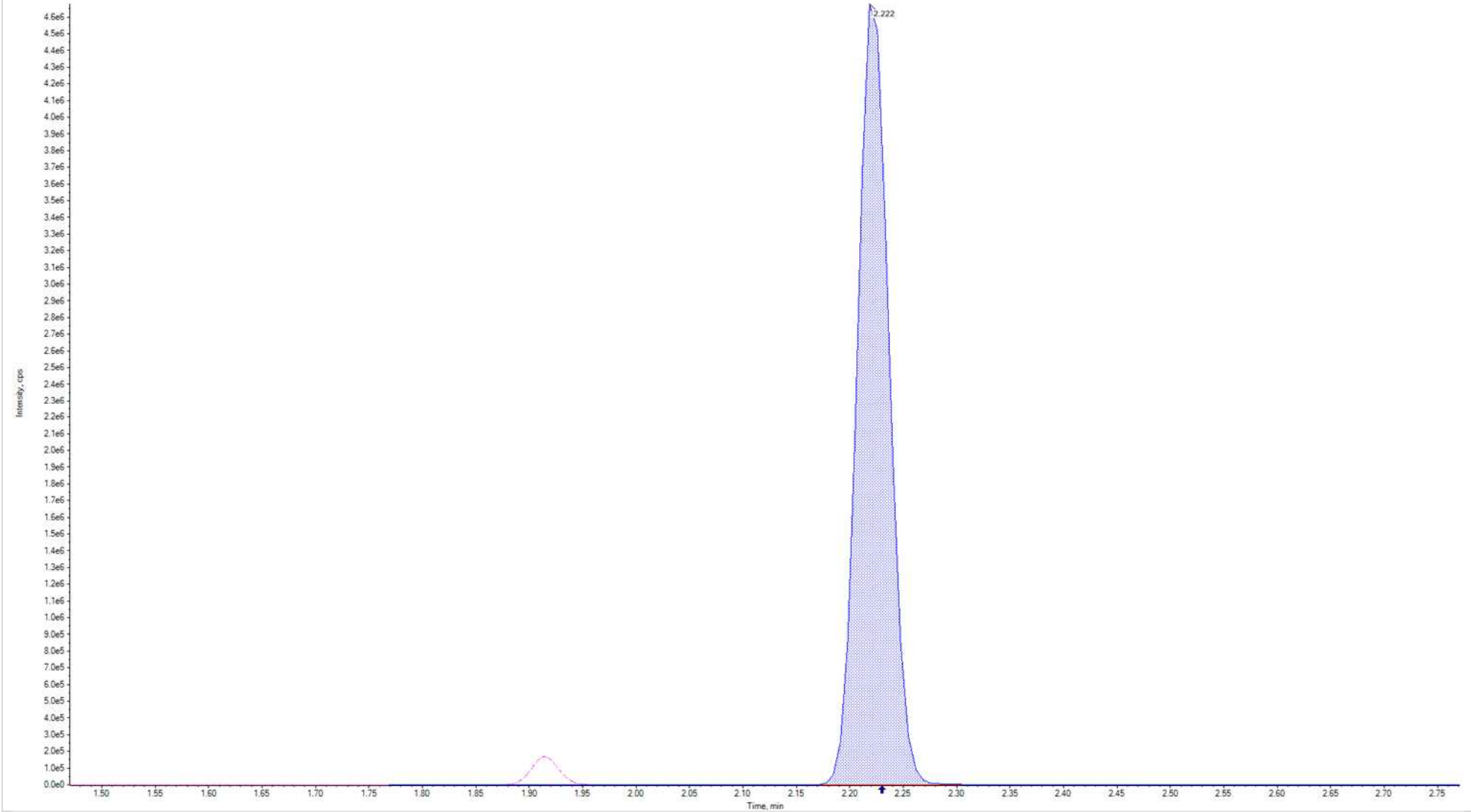
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Alpha Analytical LLC
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7:3FTCA_2
Sample: IA1633STD-12.5 S/N:27641.4 Points Across peak:48



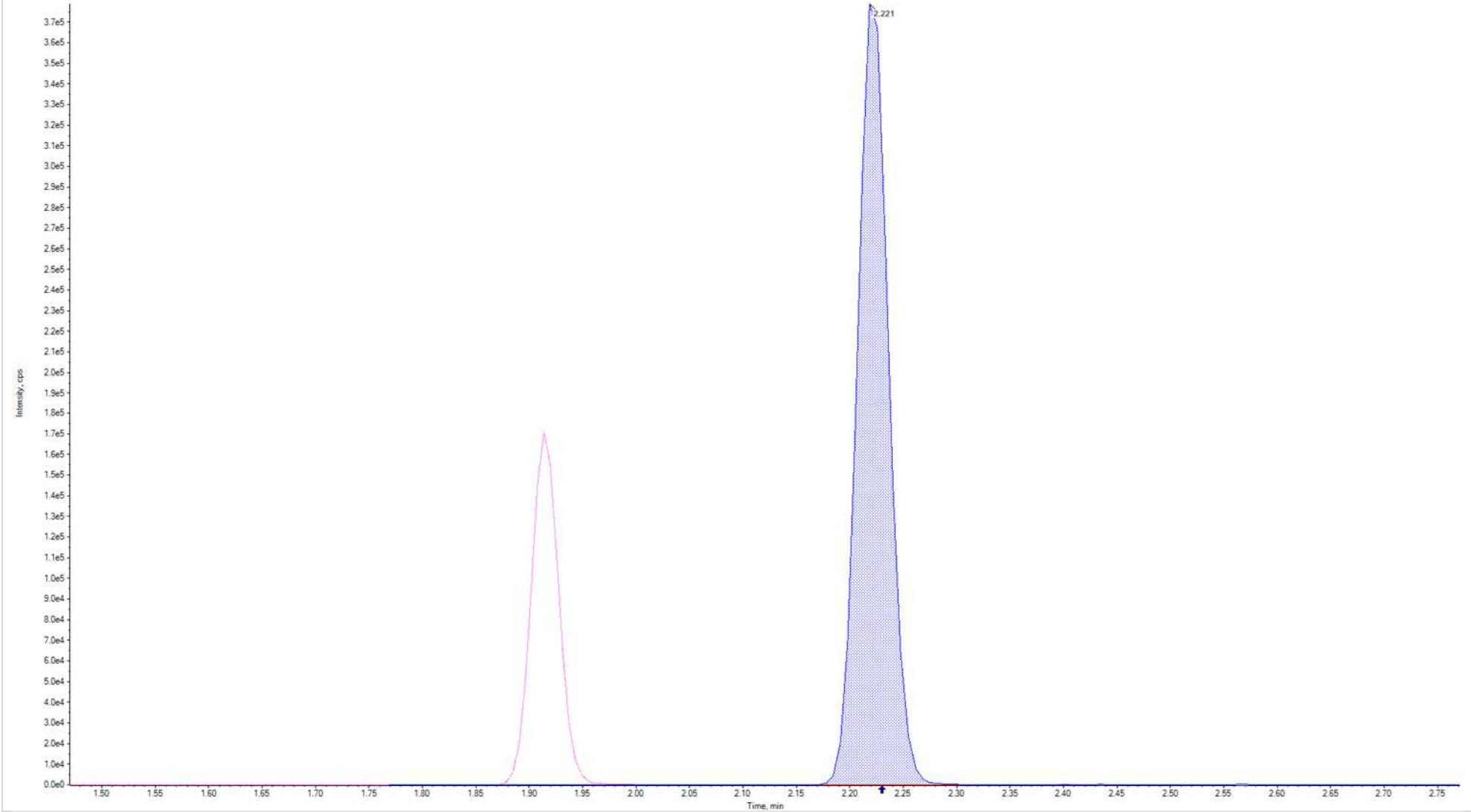
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Alpha Analytical LLC
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PFEESA
Sample: IA1633STD-12.5 S/N:8576.1 Points Across peak:34



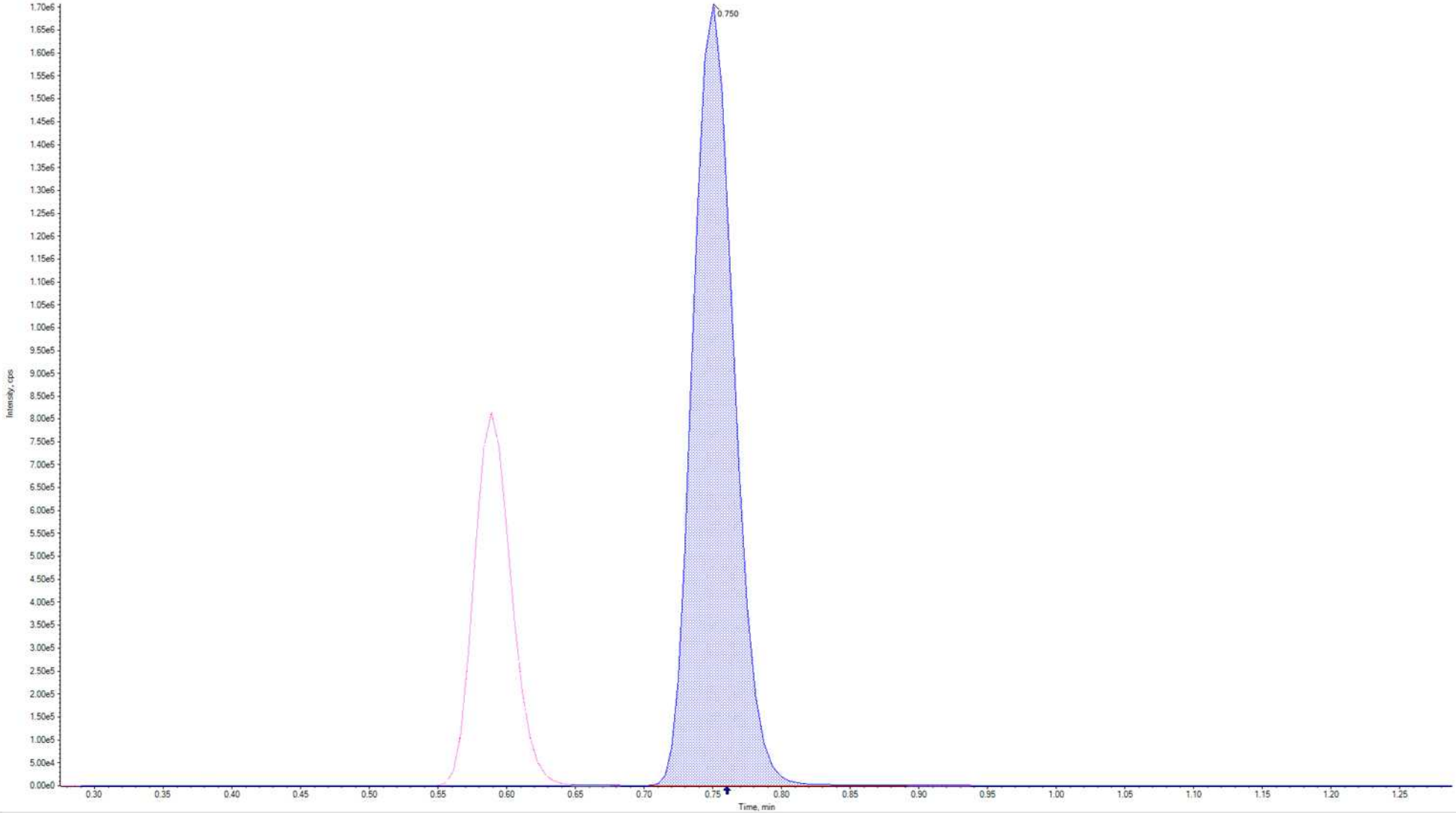
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Alpha Analytical LLC
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PFEESA_2
Sample: IA1633STD-12.5 S/N:6227.2 Points Across peak:24



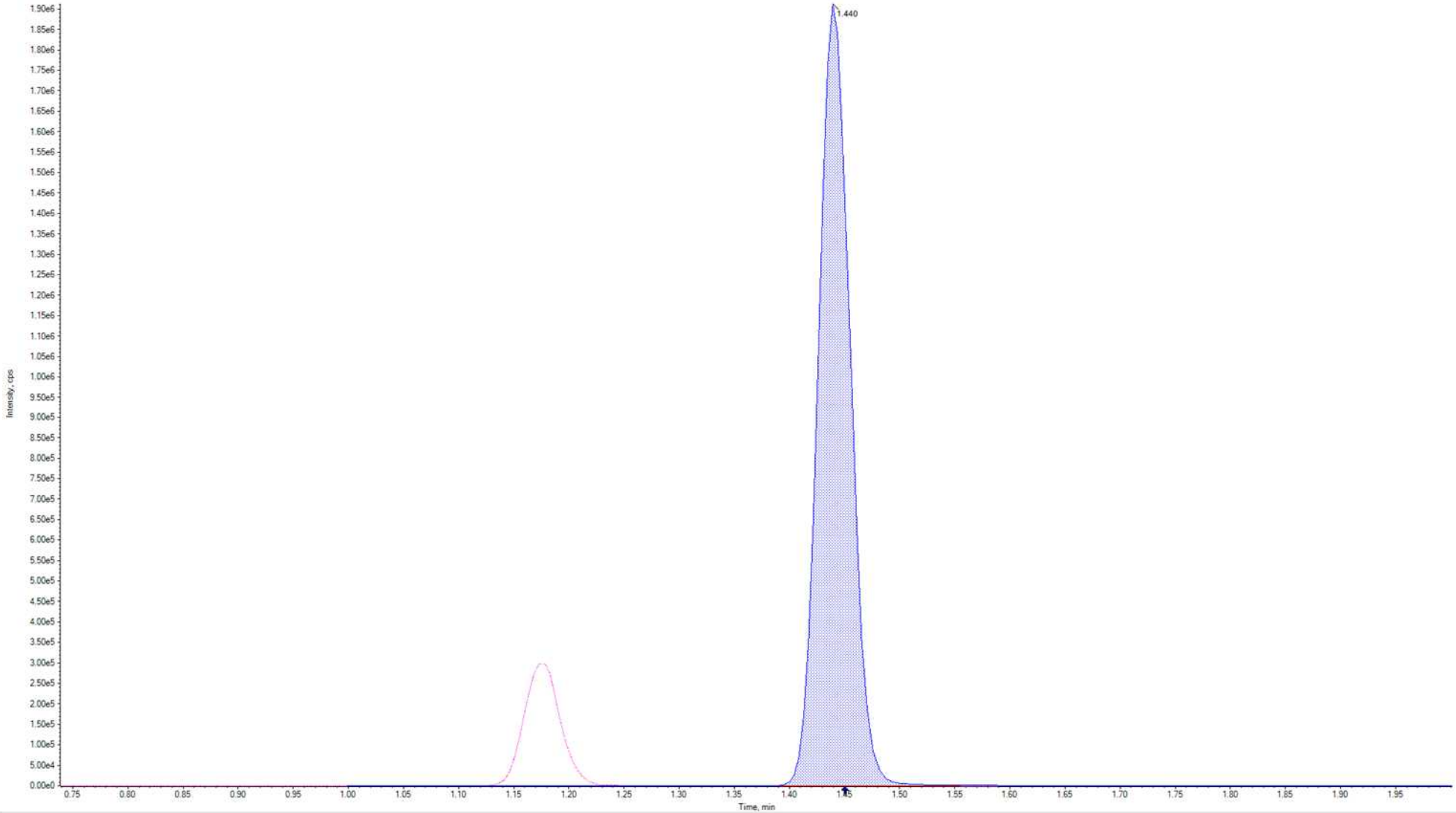
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFMPA
Sample: IA1633STD-12.5 S/N:25560.4 Points Across peak:36



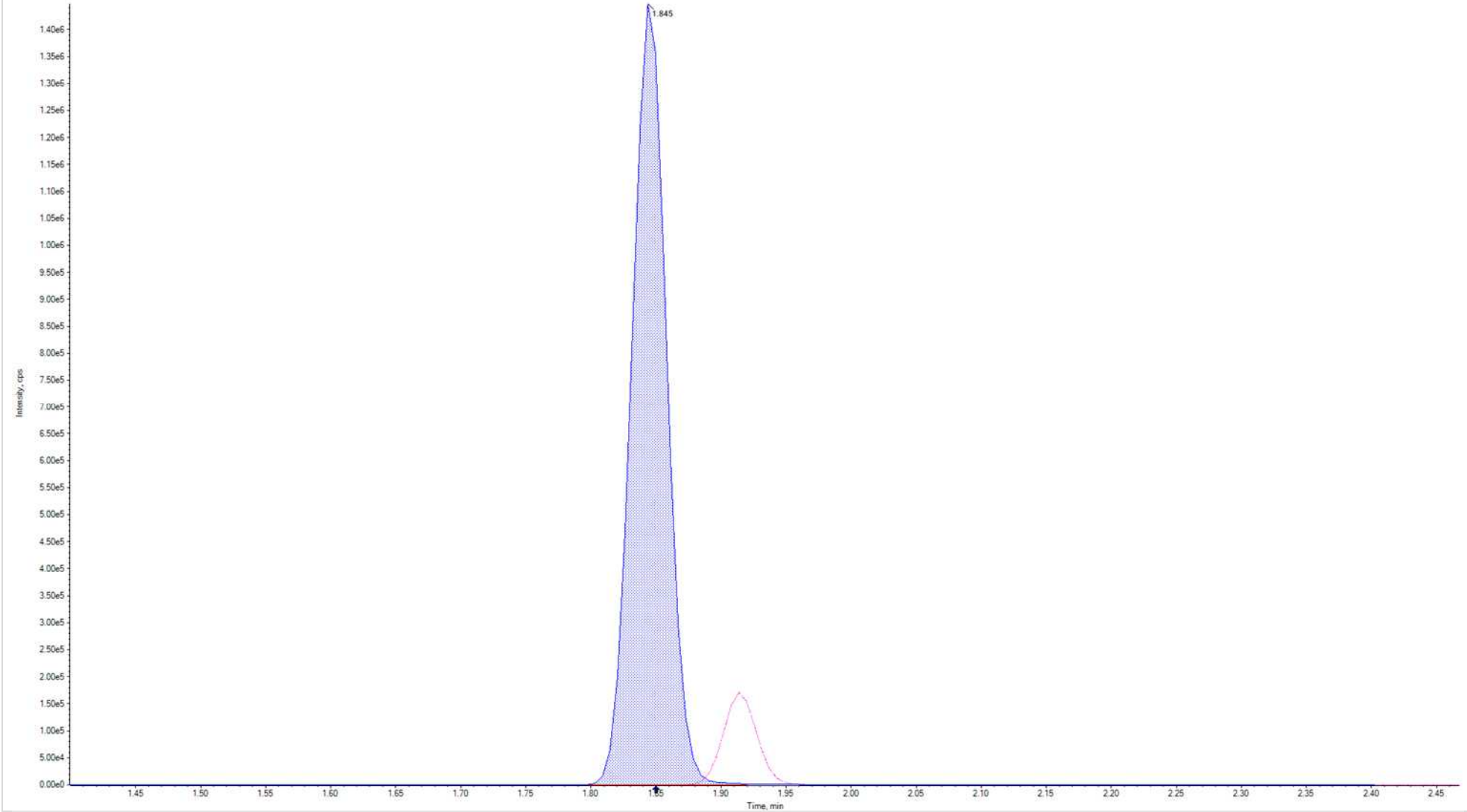
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFMBA
Sample: IA1633STD-12.5 S/N:110251.9 Points Across peak:36



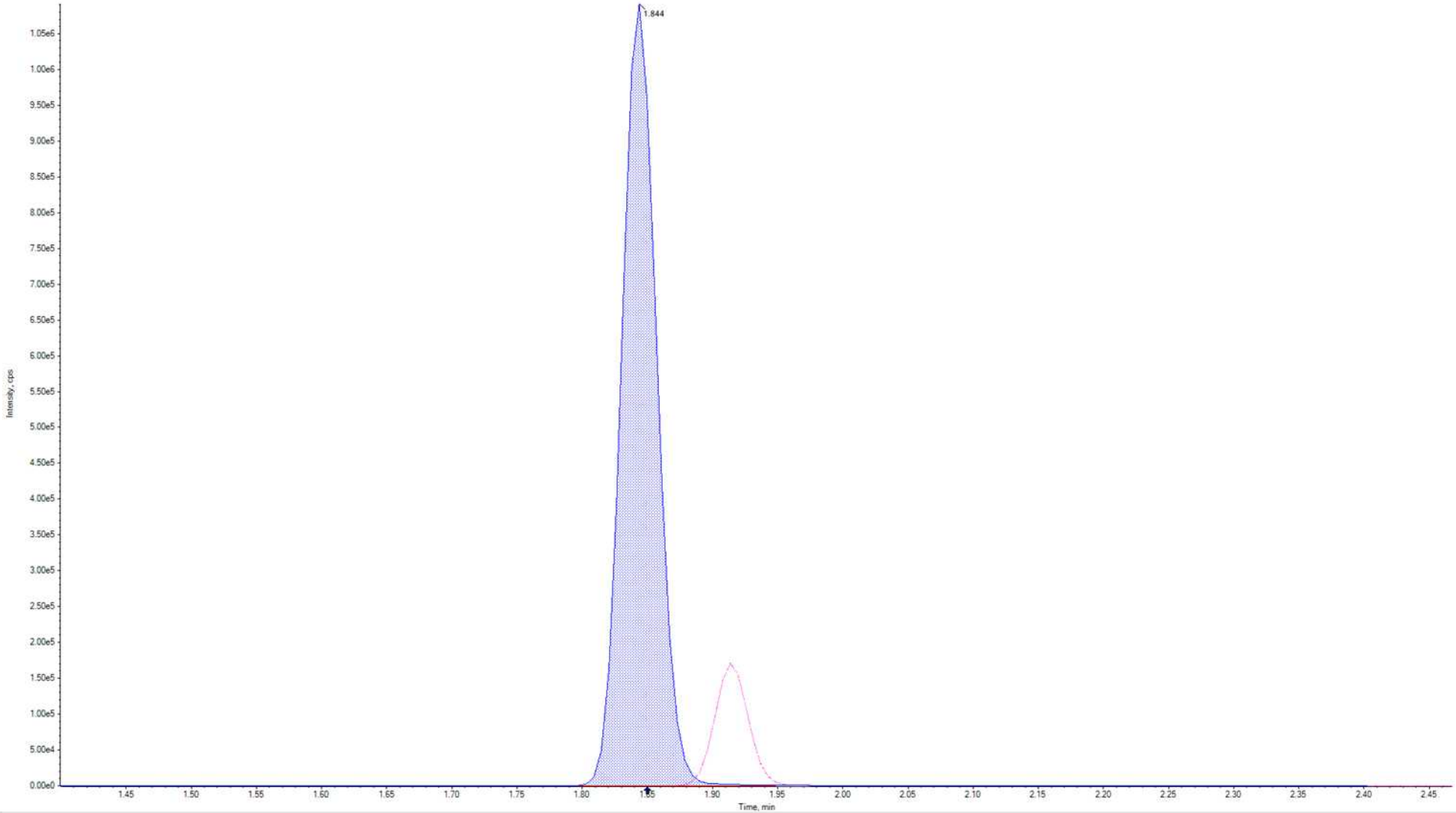
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NFDHA
Sample: IA1633STD-12.5 S/N:4183.7 Points Across peak:24



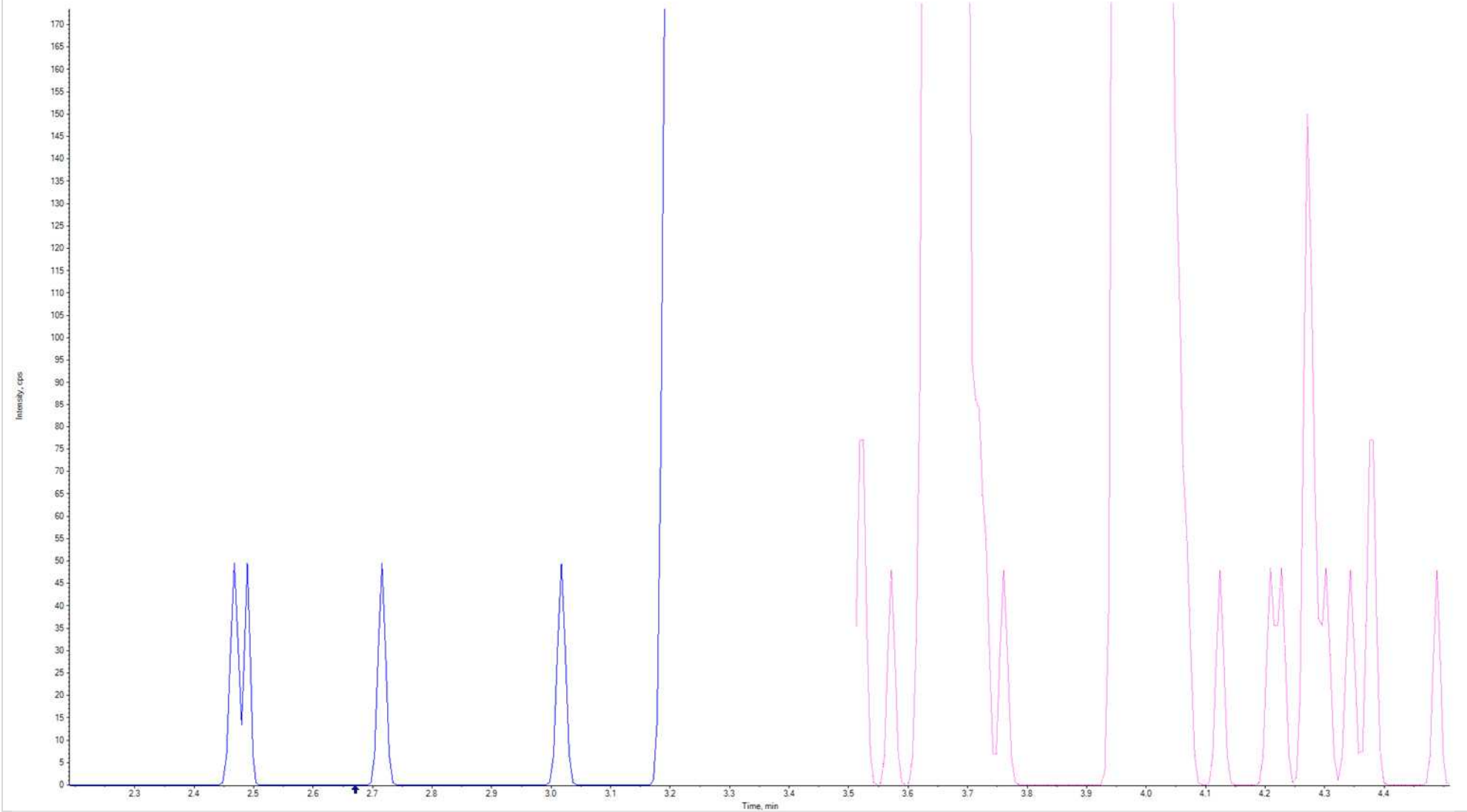
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Alpha Analytical LLC
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NFDHA_2
Sample: IA1633STD-12.5 S/N:3654.4 Points Across peak:31



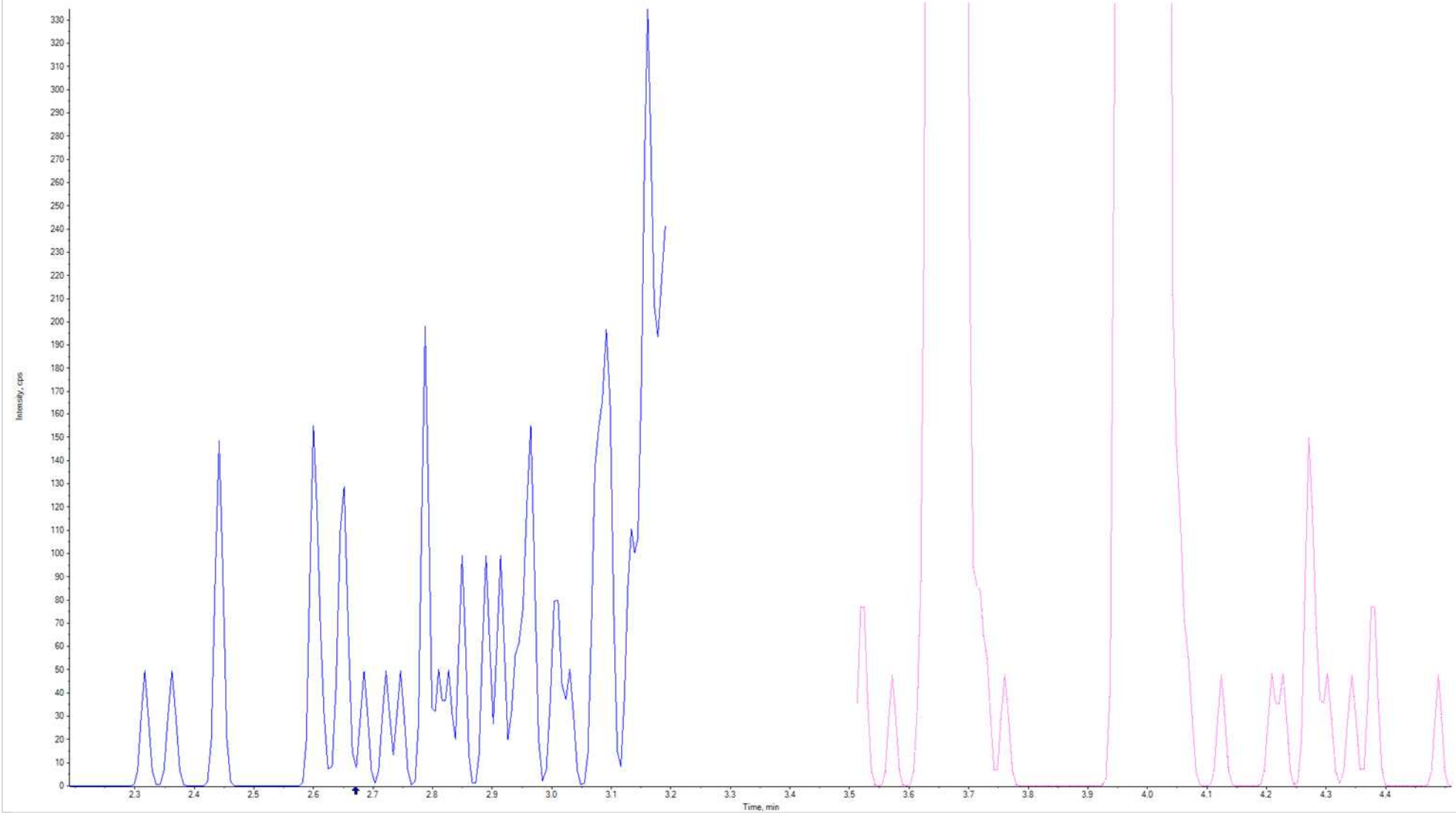
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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TDCA
Sample: IA1633STD-12.5 S/N:N/A Points Across peak:N/A



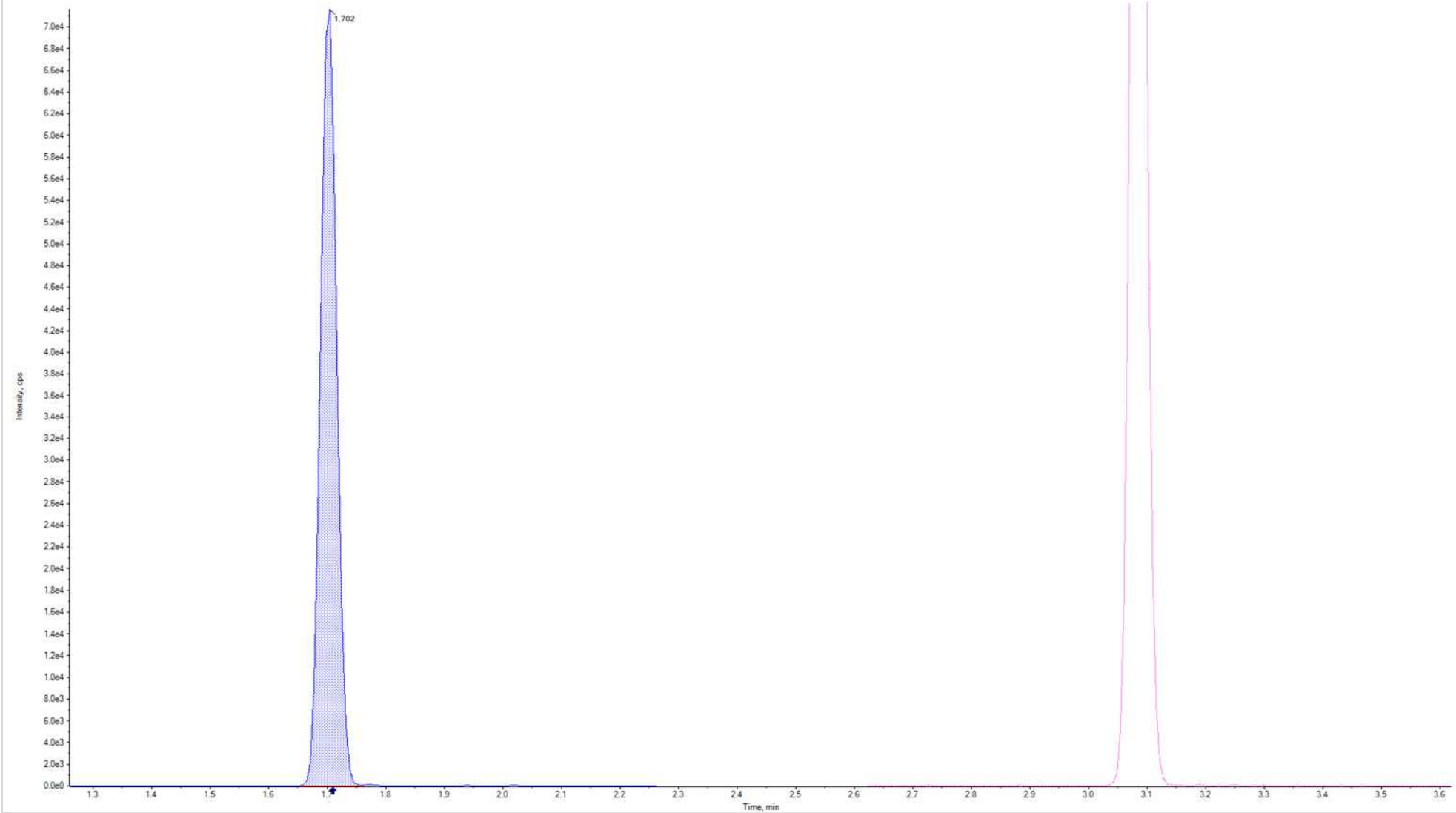
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

TDCA_2
Sample: IA1633STD-12.5 S/N:N/A Points Across peak:N/A



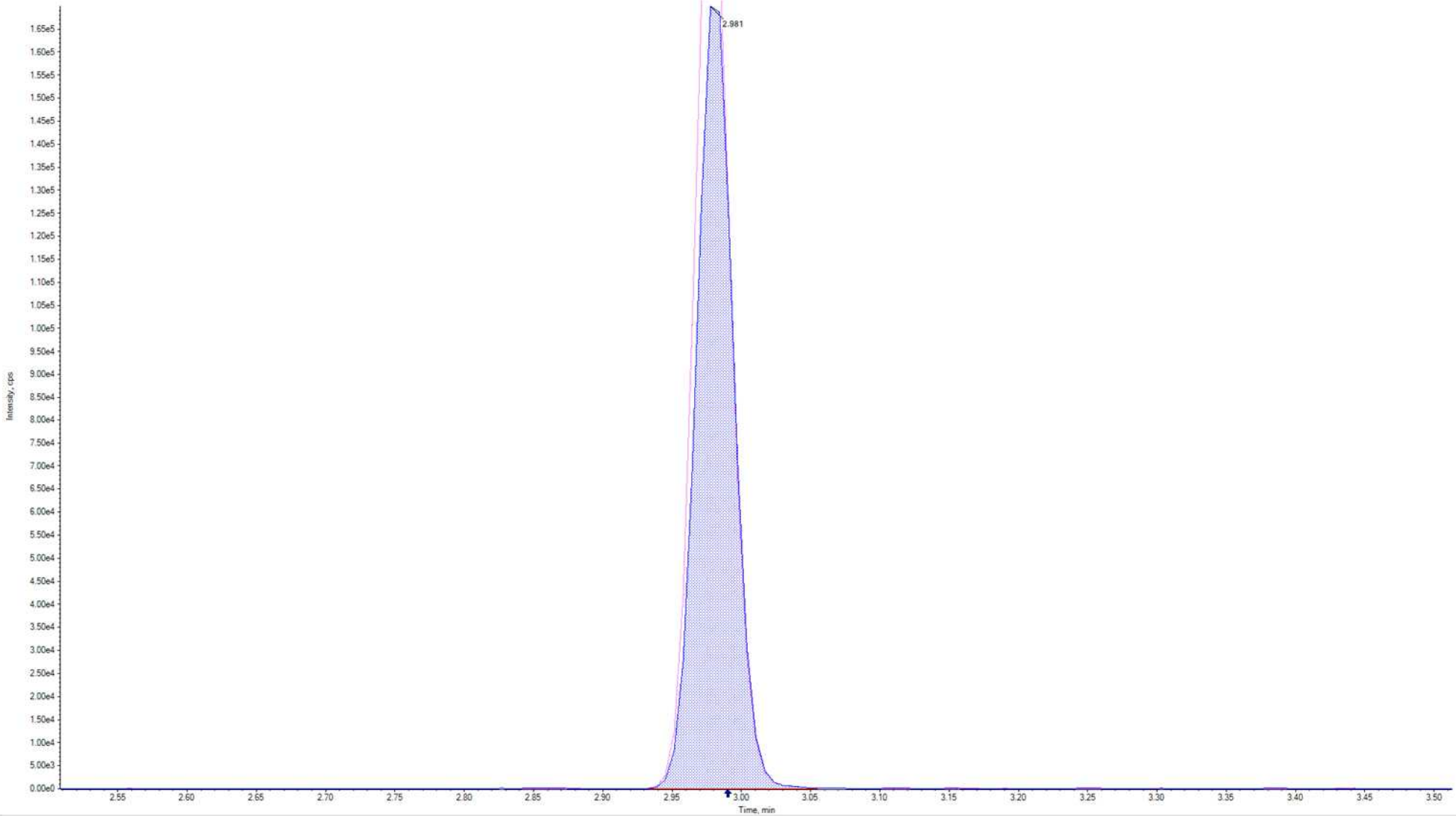
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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13C2D4-4:2FTS
Sample: IA1633STD-12.5 S/N:2693.7 Points Across peak:21

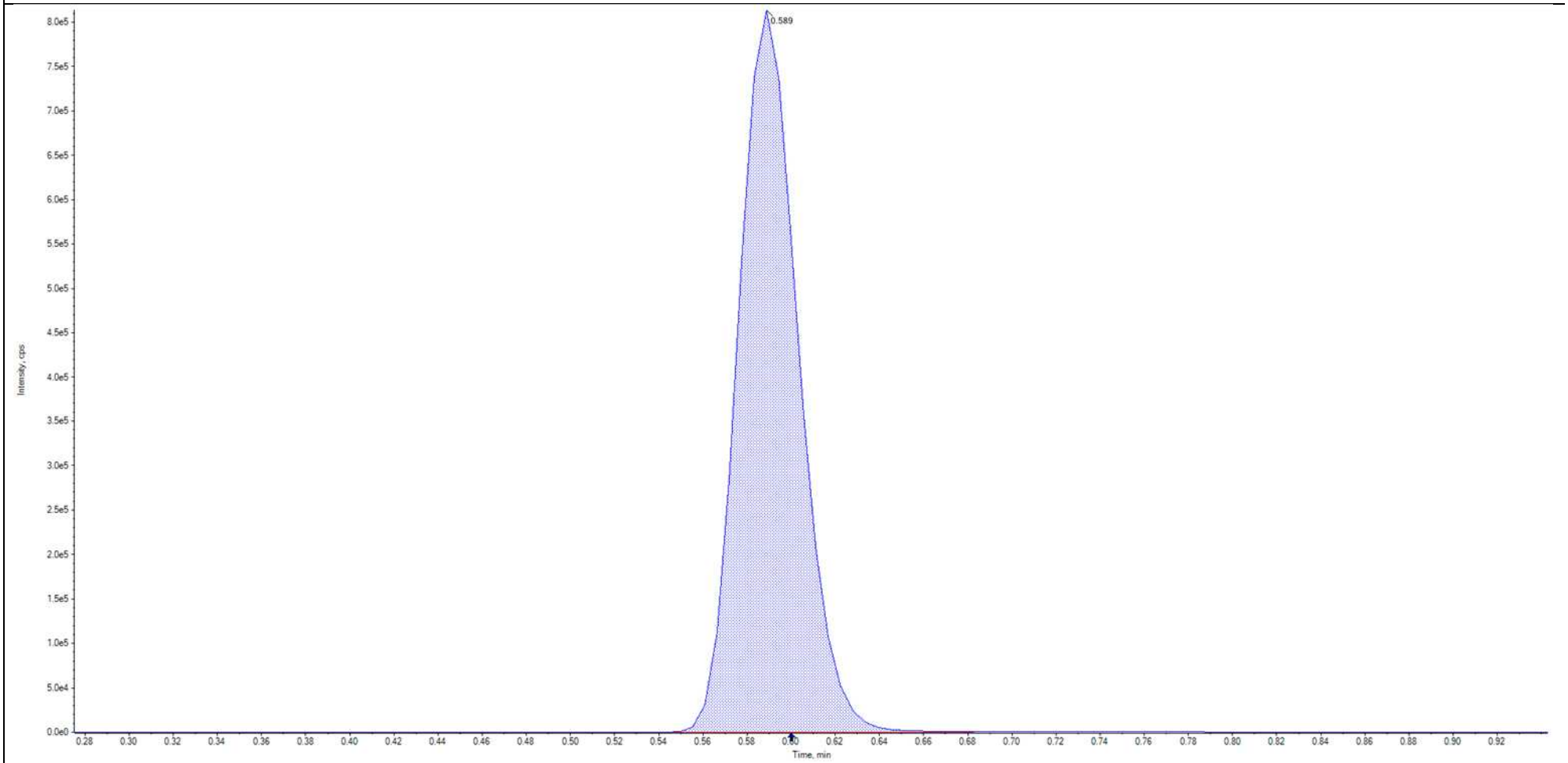


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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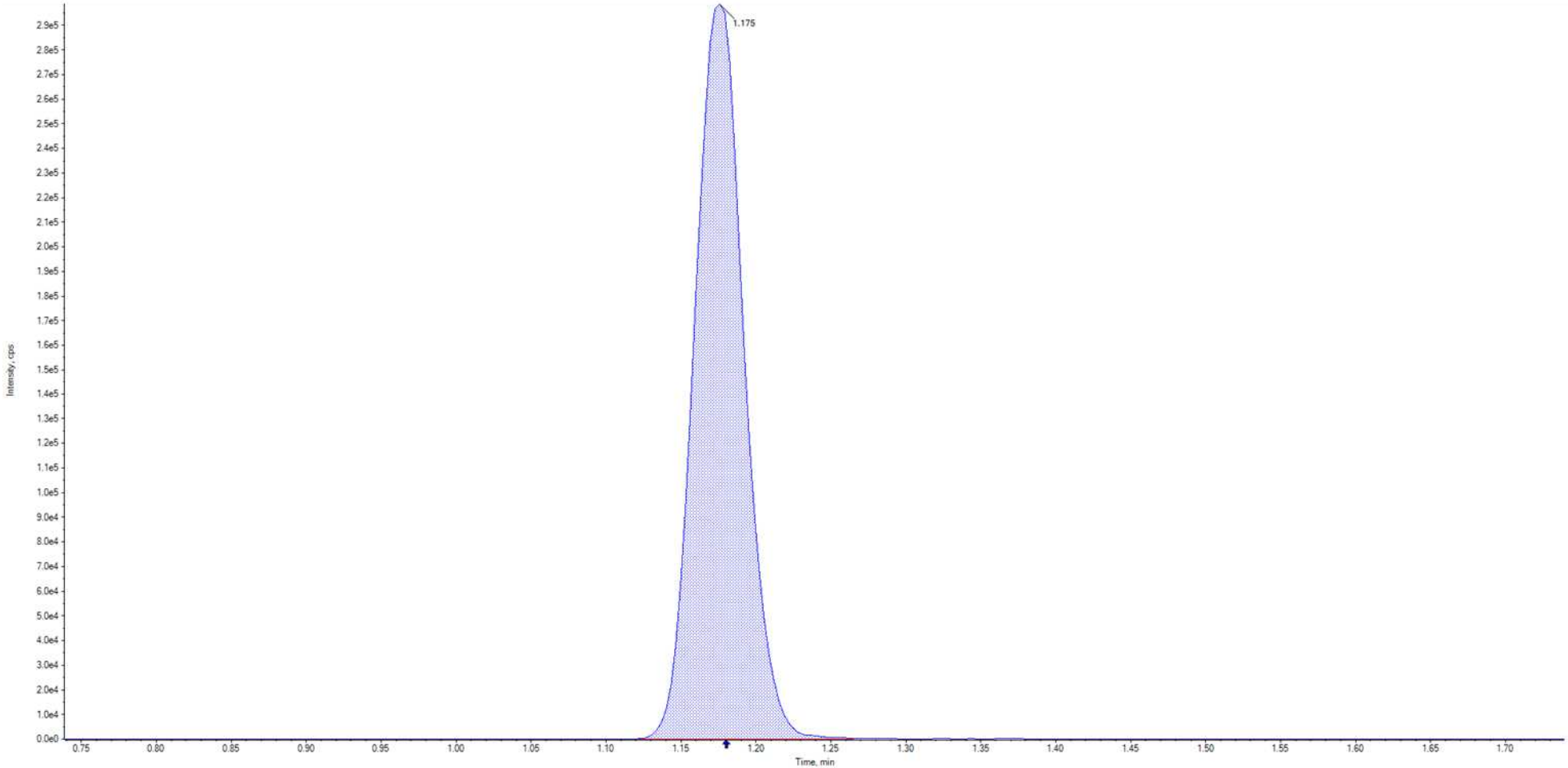
13C2-PFOA
Sample: IA1633STD-12.5 S/N:3834.3 Points Across peak:24



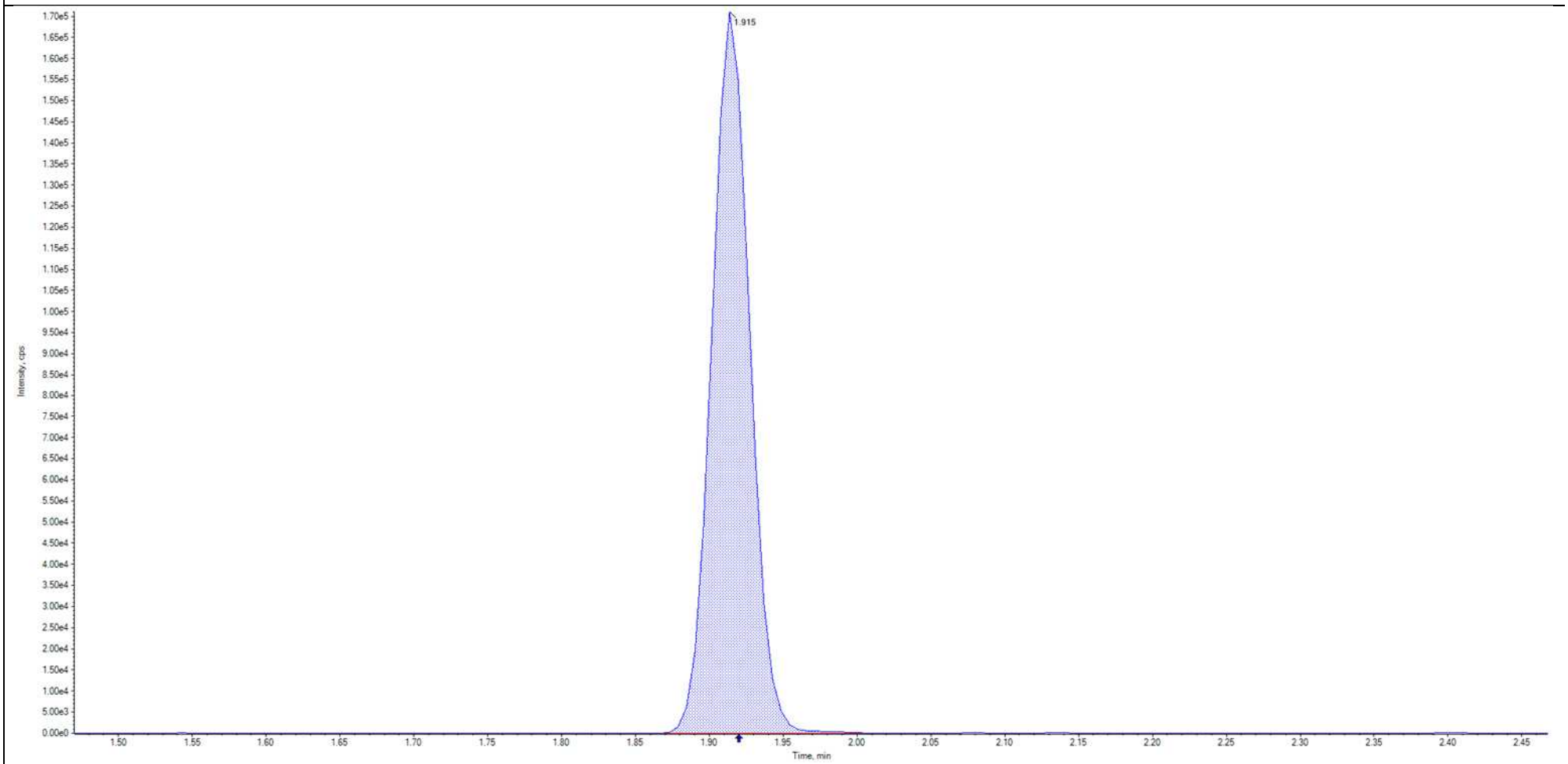
13C4-PFBA
Sample: IA1633STD-12.5



13C5-PFPeA
Sample: IA1633STD-12.5

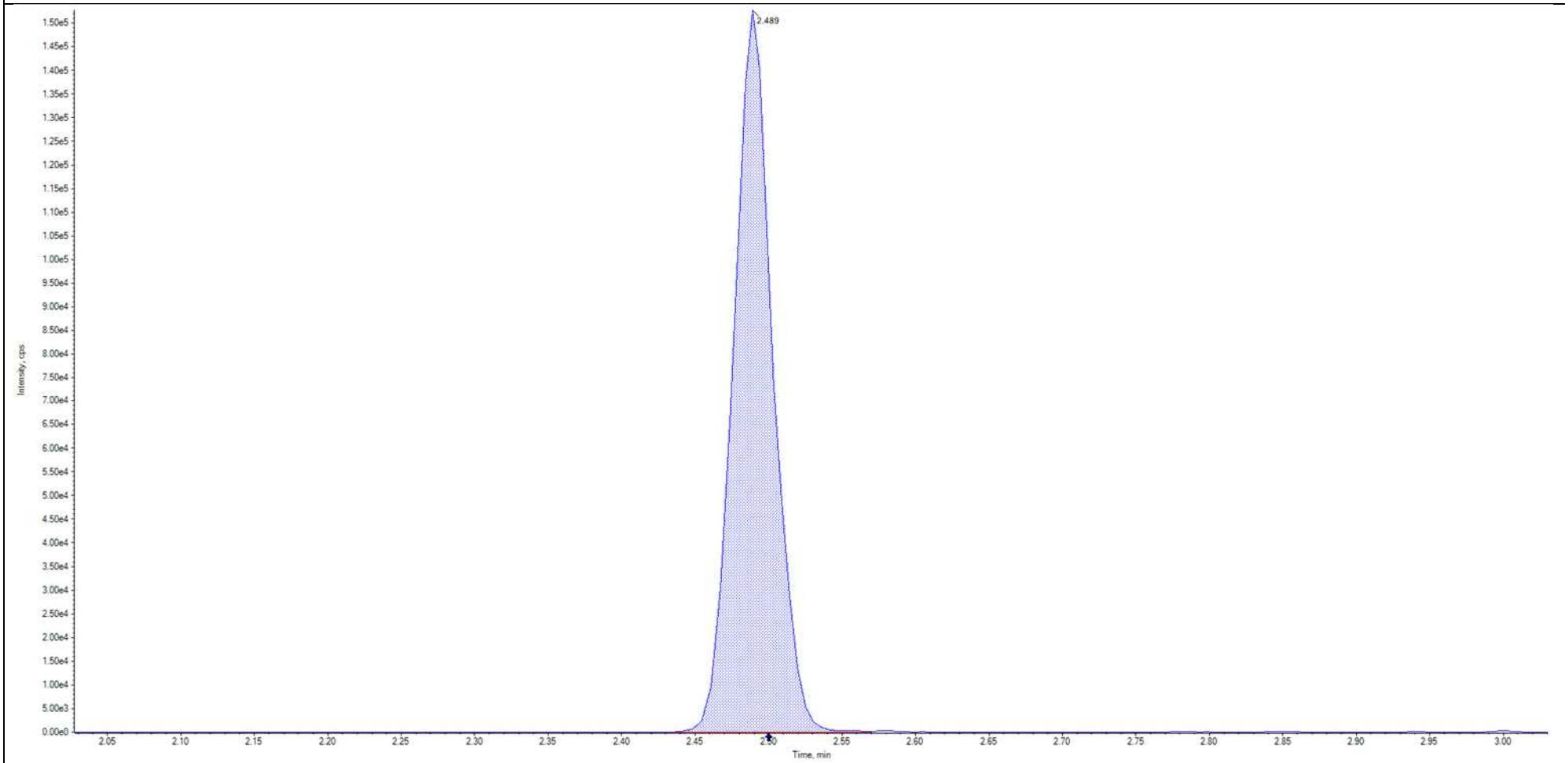


13C5-PFHxA
Sample: IA1633STD-12.5

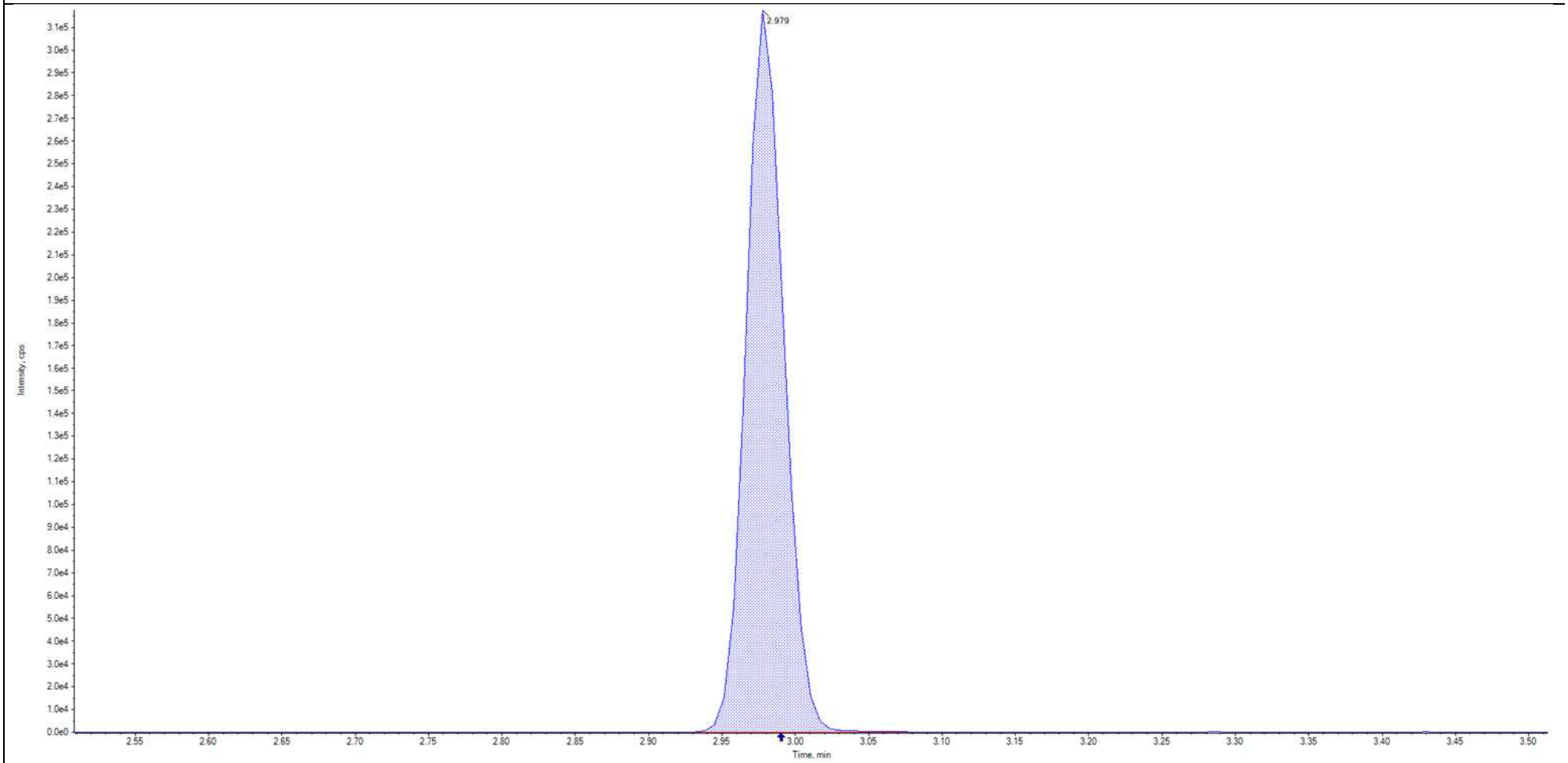


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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13C4-PFHpA
Sample: IA1633STD-12.5

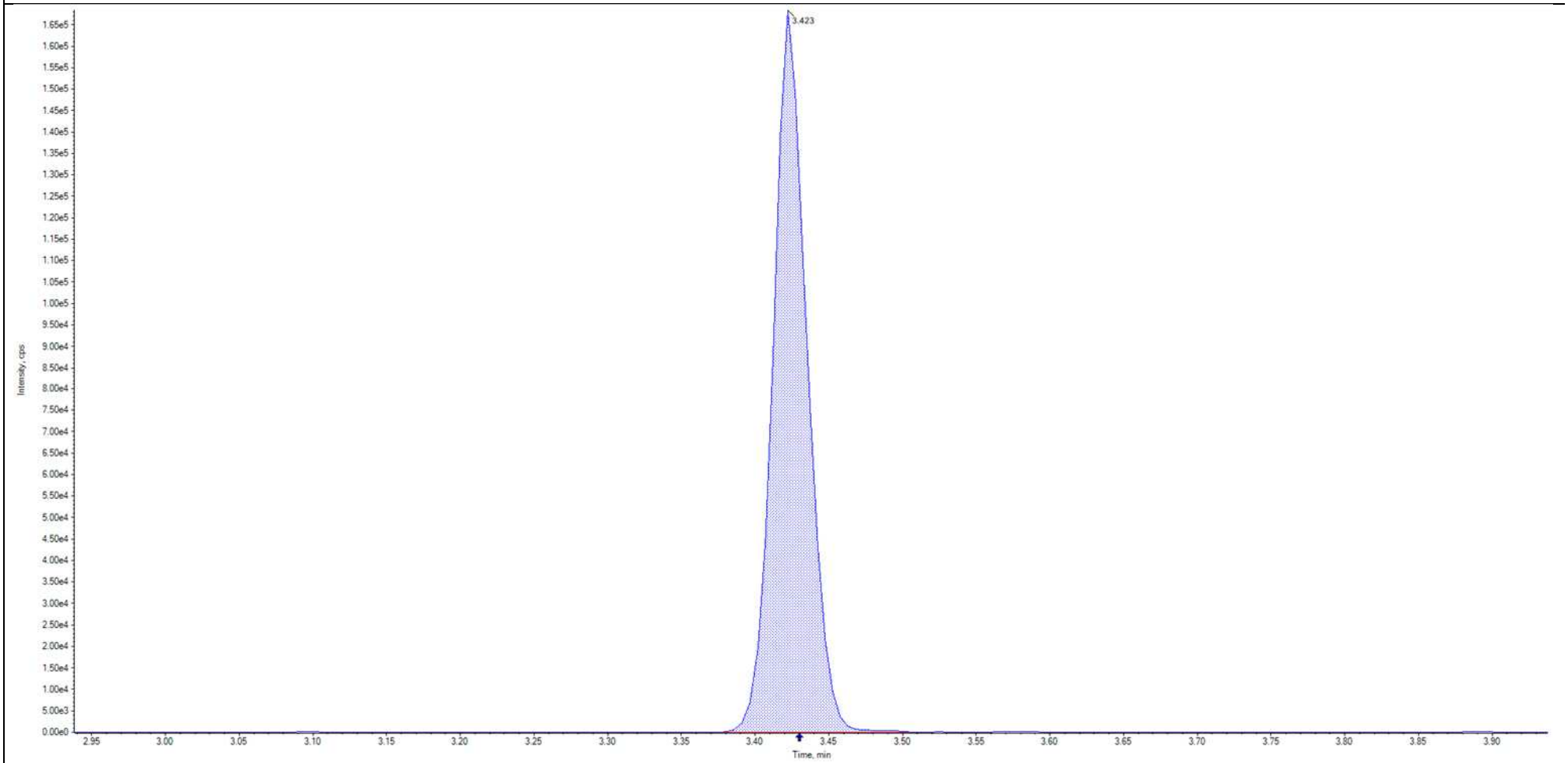


13C8-PFOA
Sample: IA1633STD-12.5

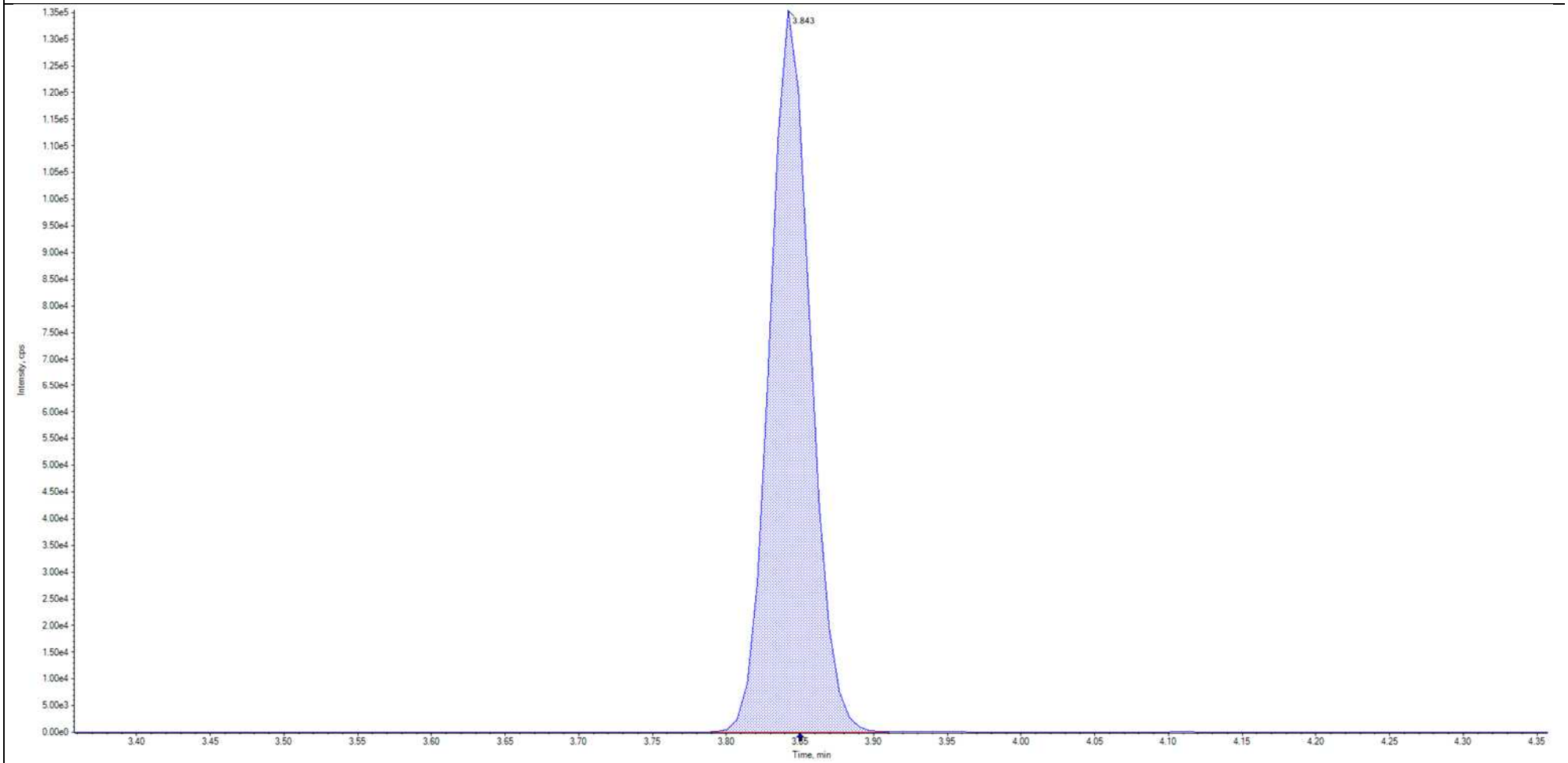


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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13C9-PFNA
Sample: IA1633STD-12.5

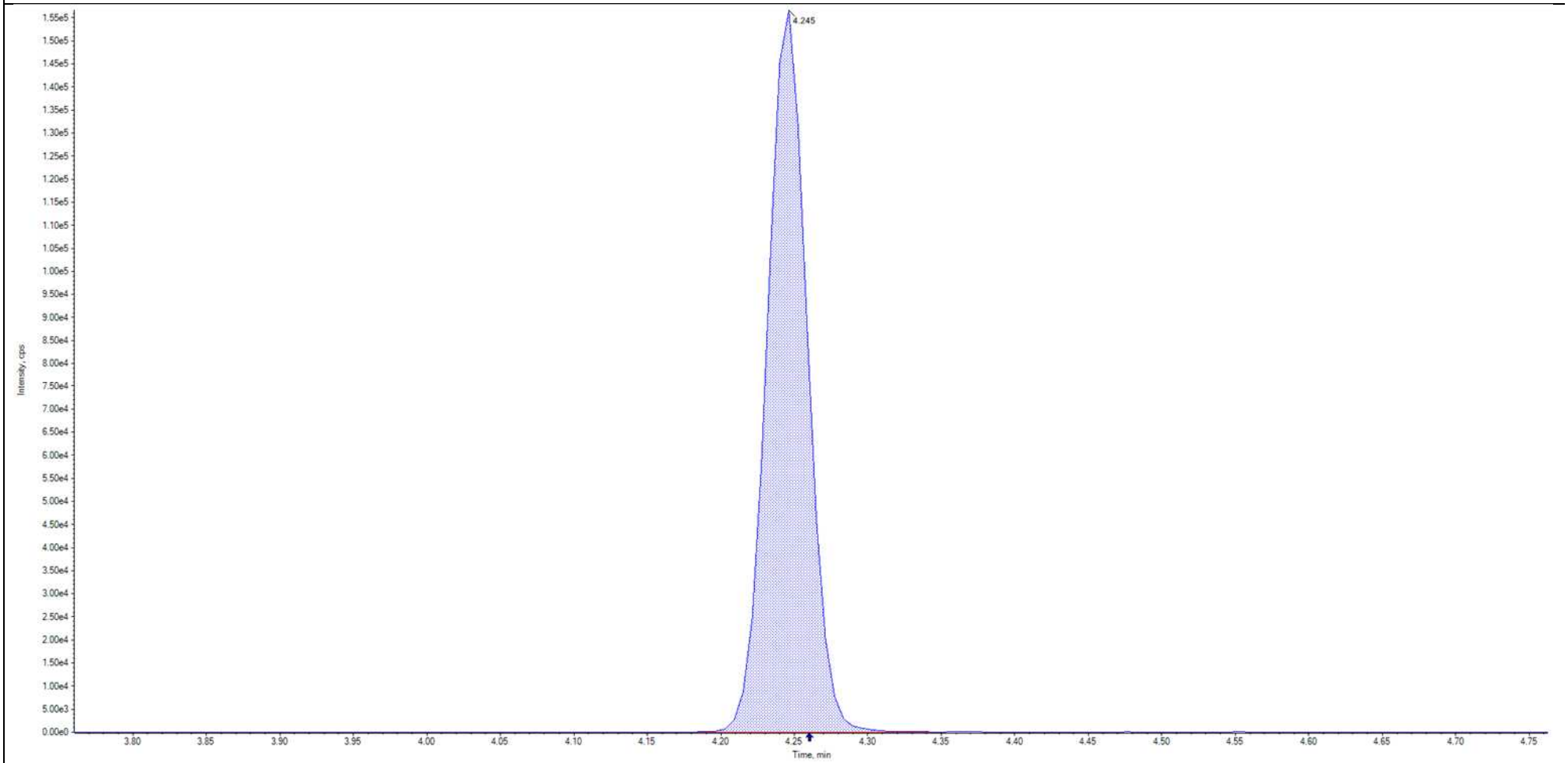


13C6-PFDA
Sample: IA1633STD-12.5

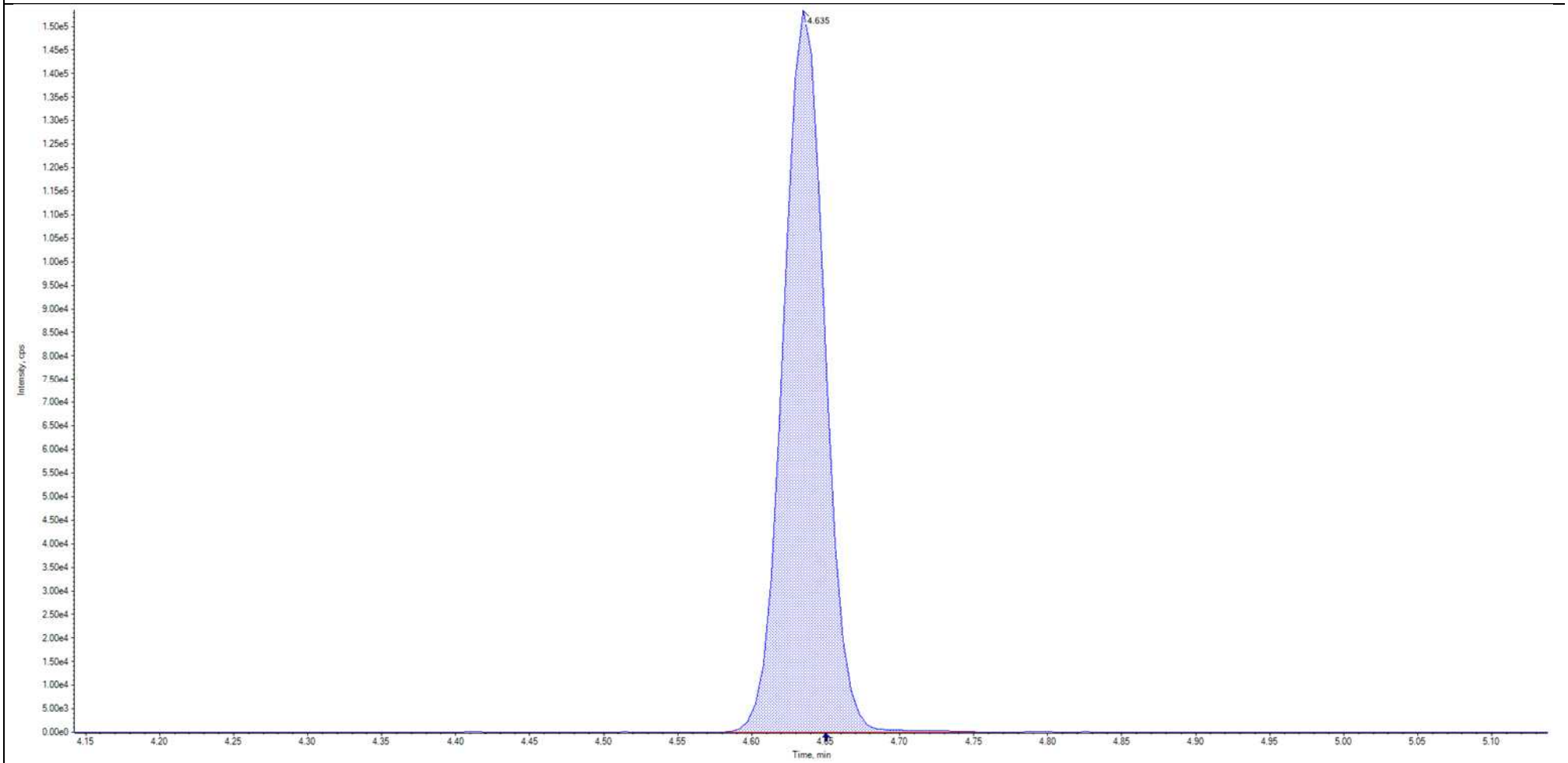


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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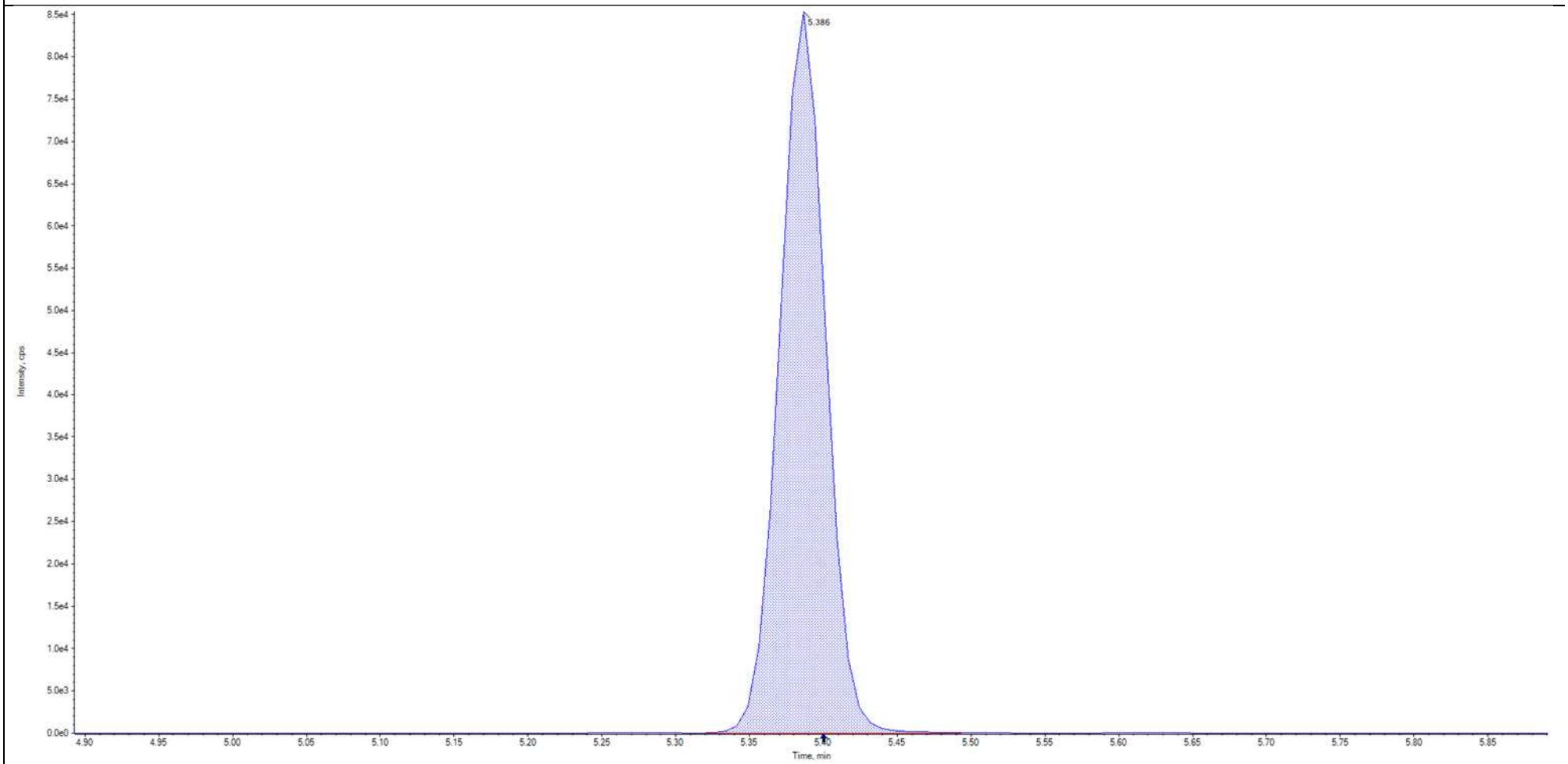
13C7-PFUnA
Sample: IA1633STD-12.5



13C2-PFDoA
Sample: IA1633STD-12.5

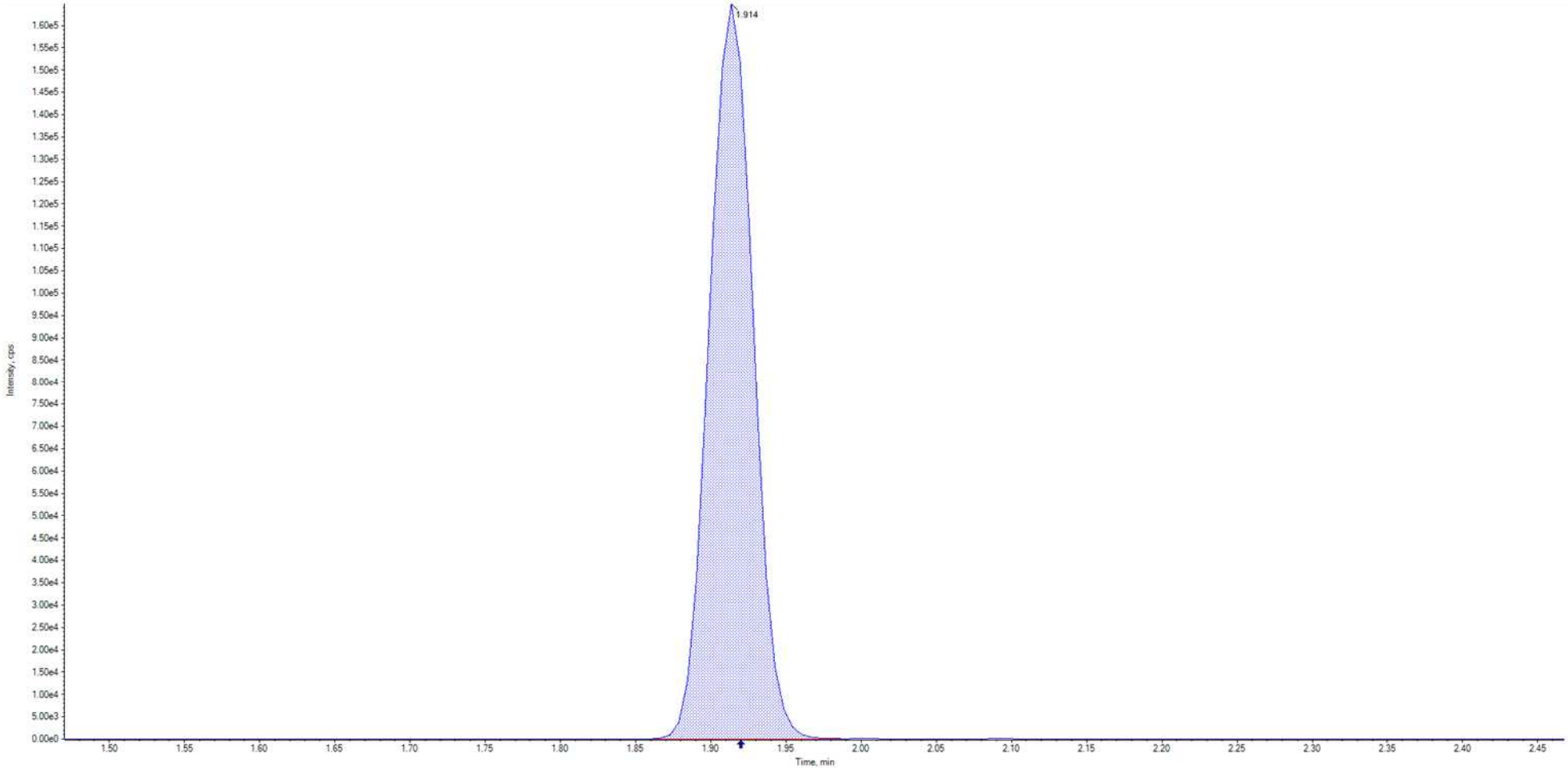


13C2-PFTeDA
Sample: IA1633STD-12.5

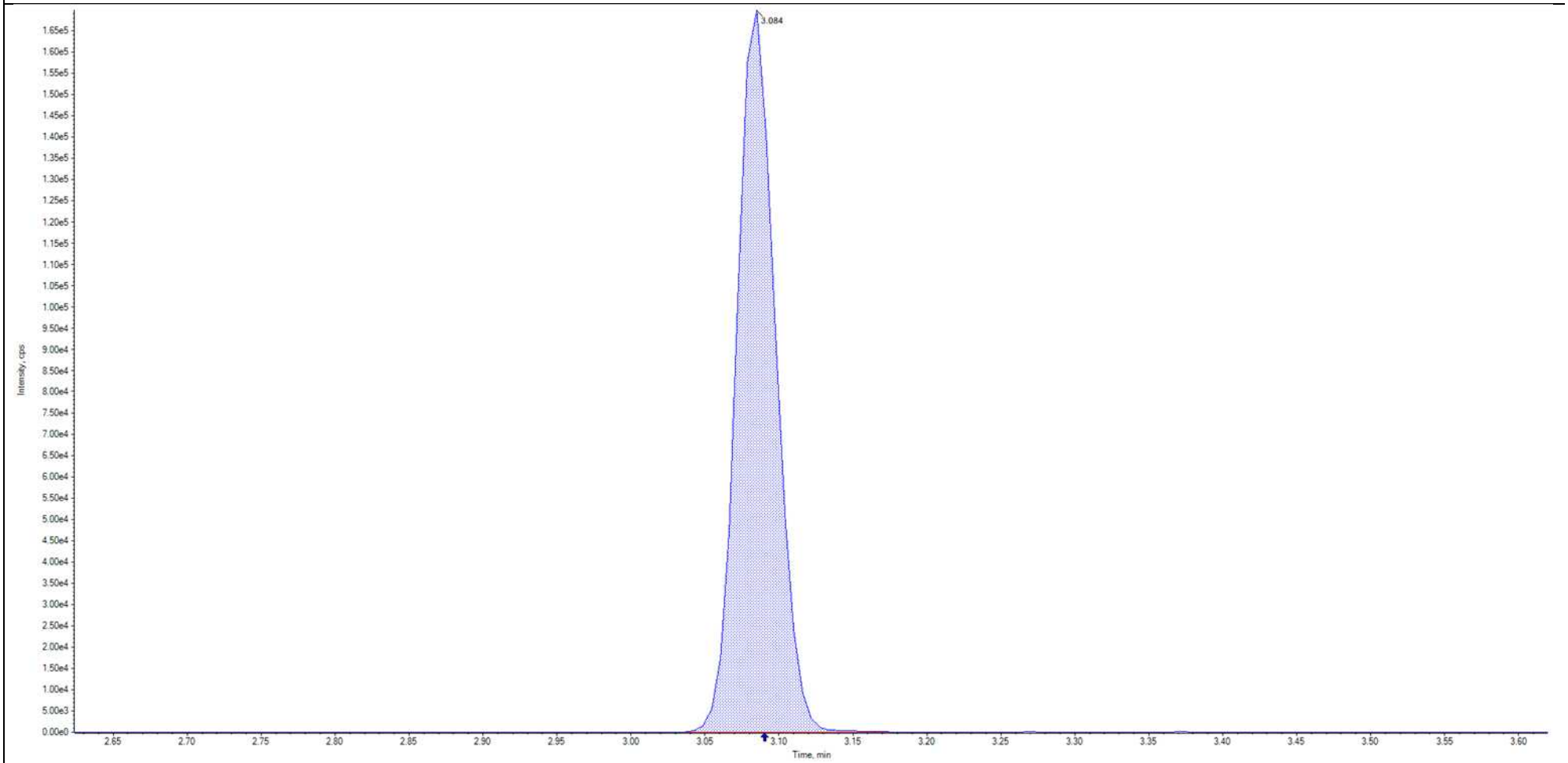


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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13C3-PFBS
Sample: IA1633STD-12.5

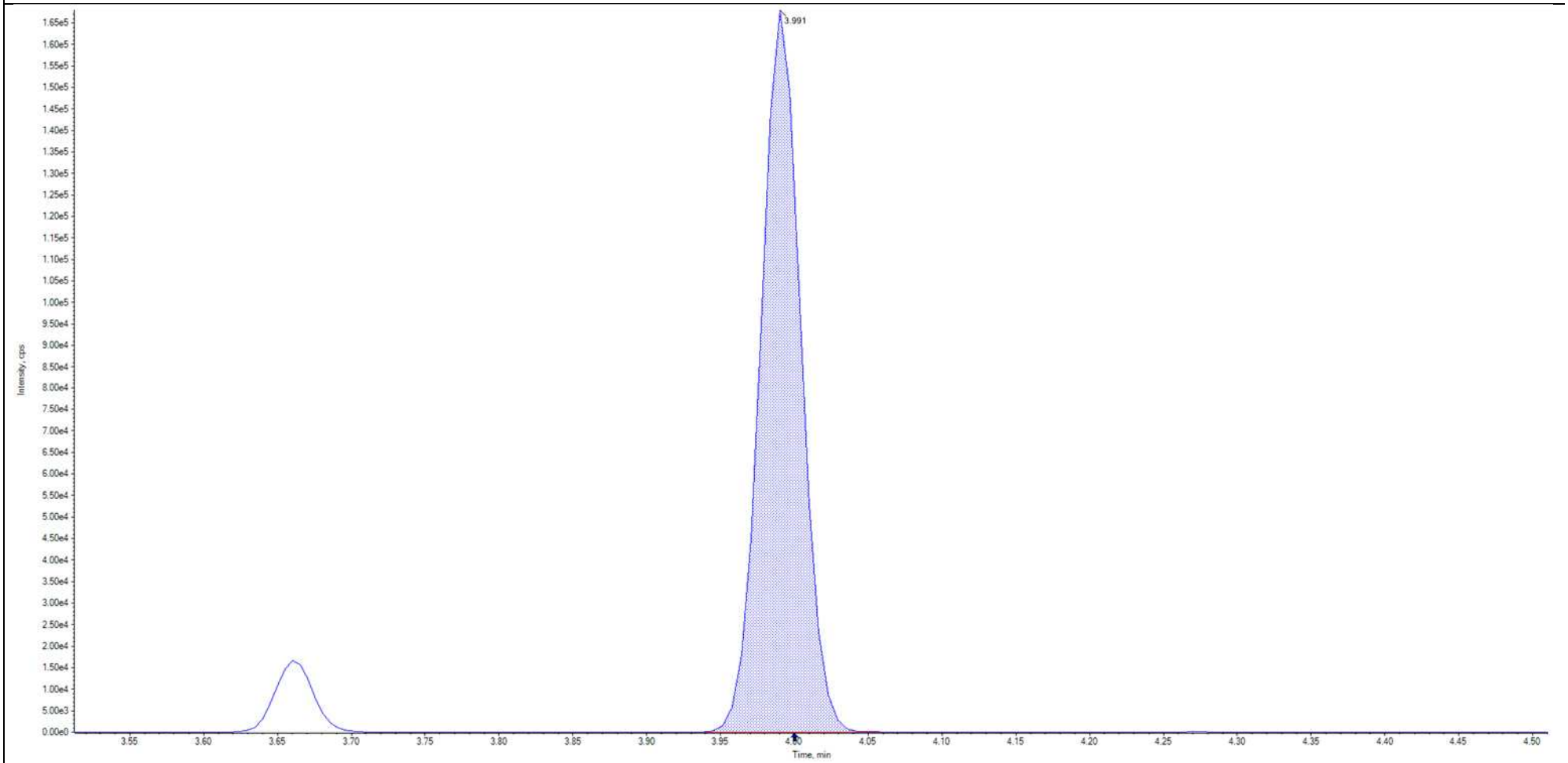


13C3-PFHxS
Sample: IA1633STD-12.5

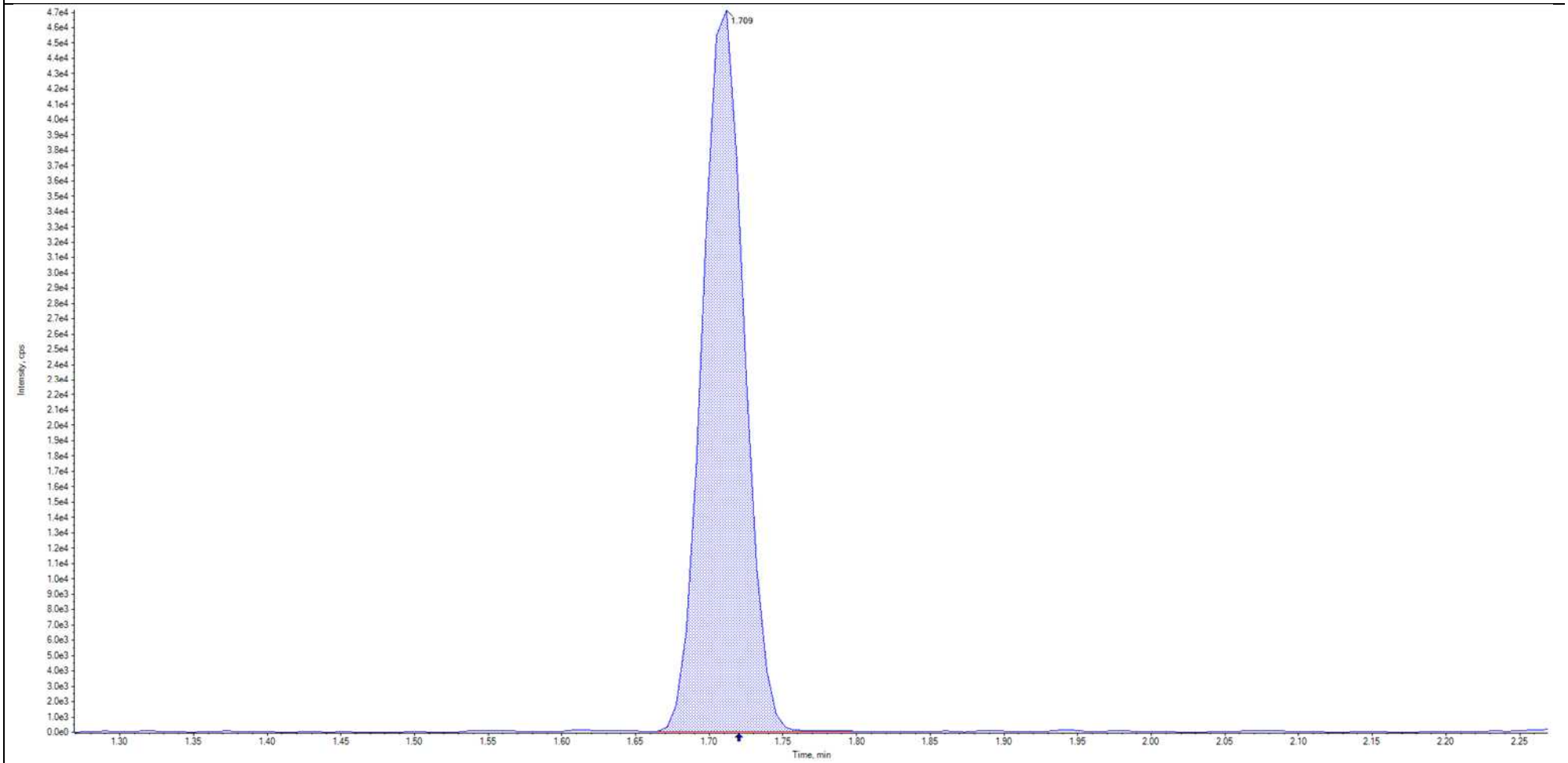


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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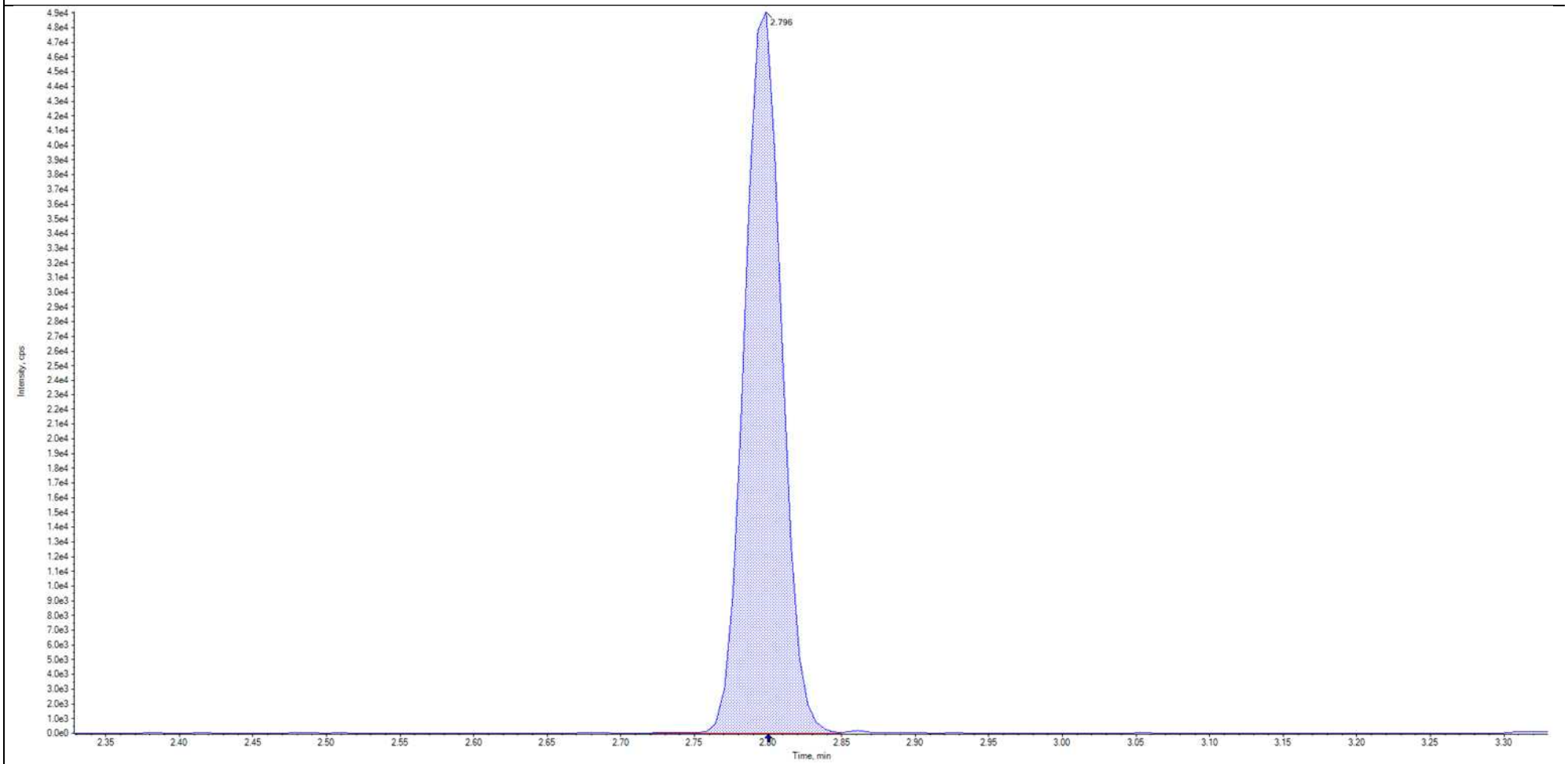
13C8-PFOS
Sample: IA1633STD-12.5



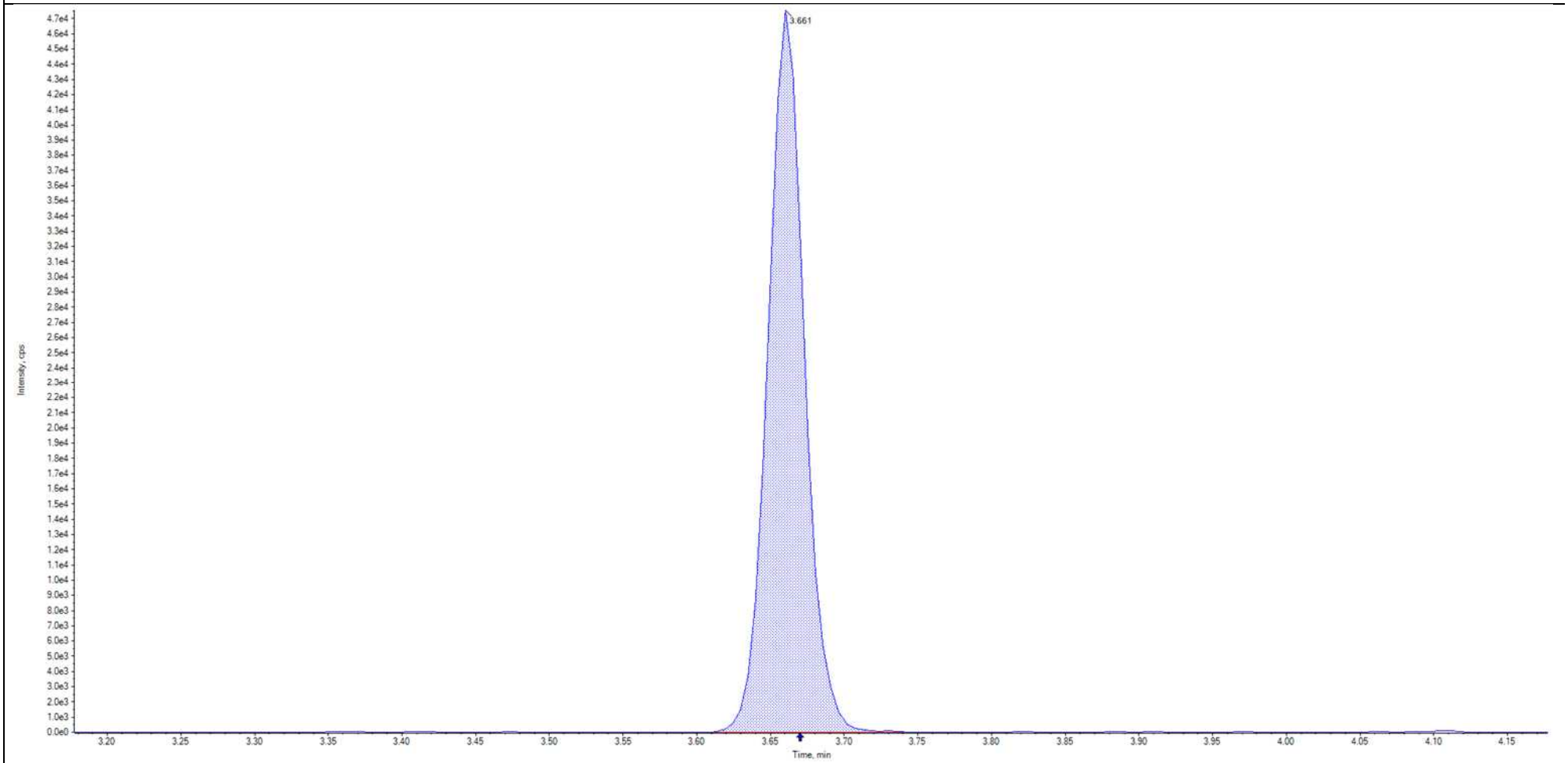
13C2-4:2FTS
Sample: IA1633STD-12.5



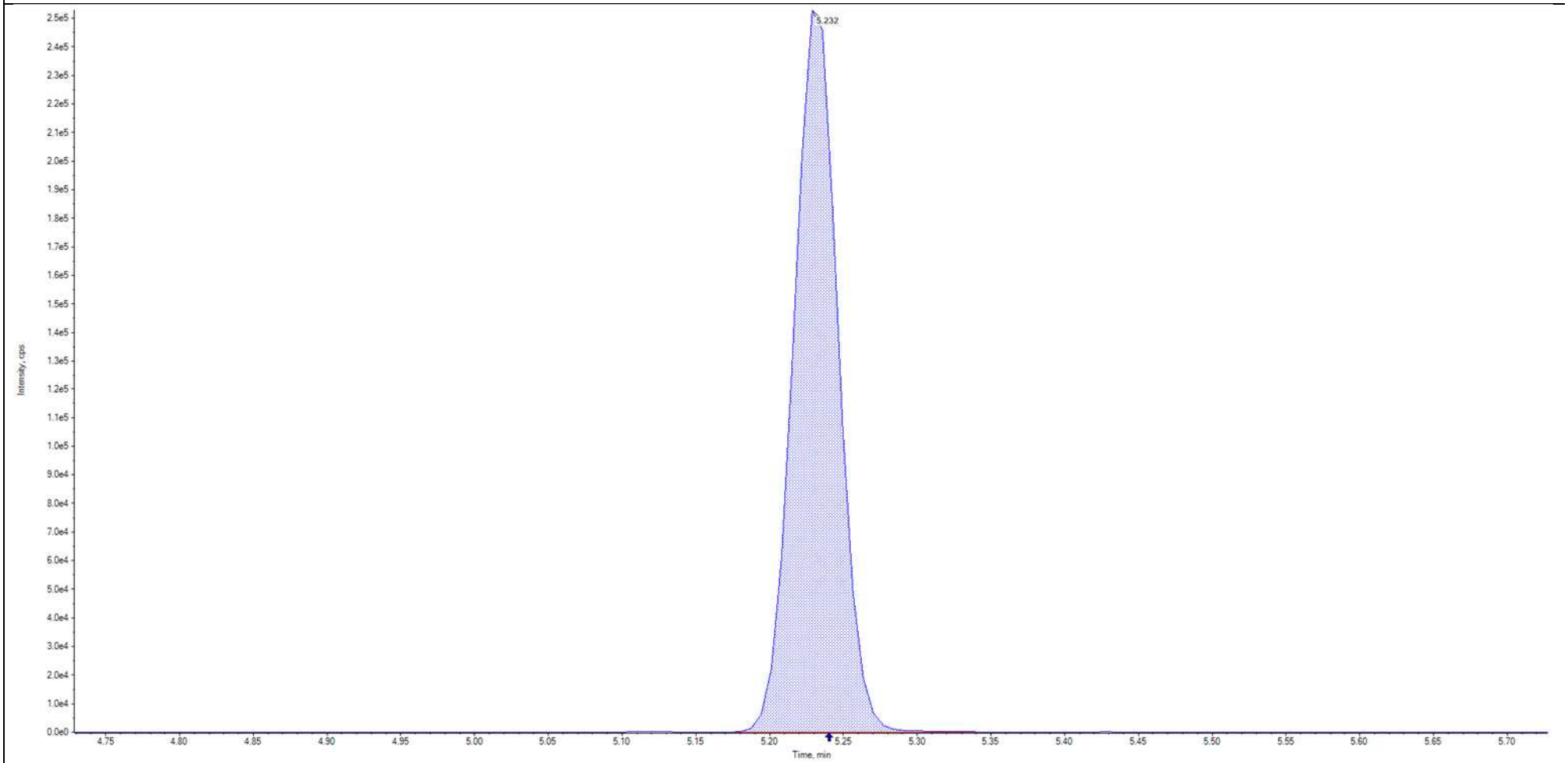
13C2-6:2FTS
Sample: IA1633STD-12.5



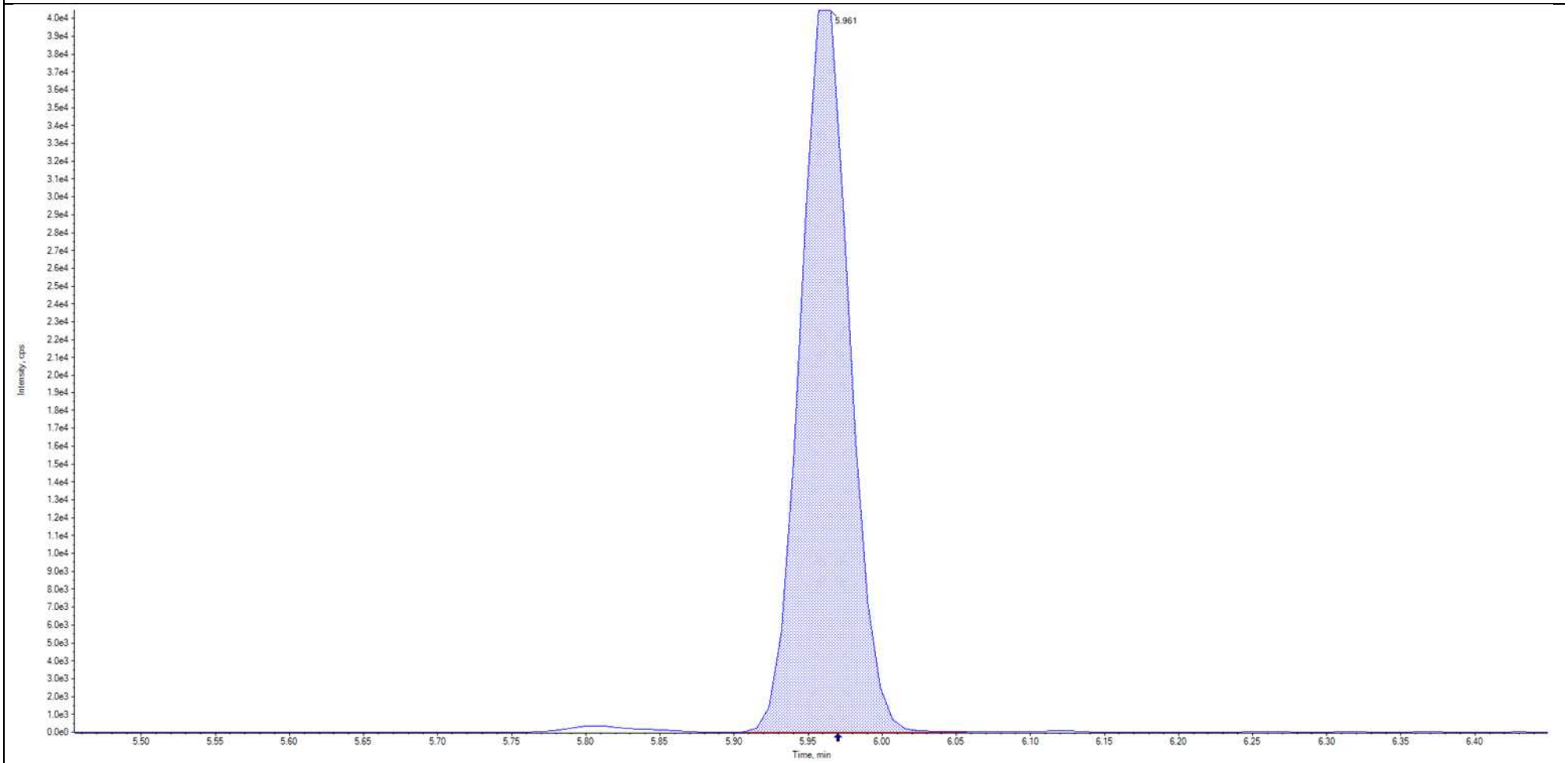
13C2-8:2FTS
Sample: IA1633STD-12.5



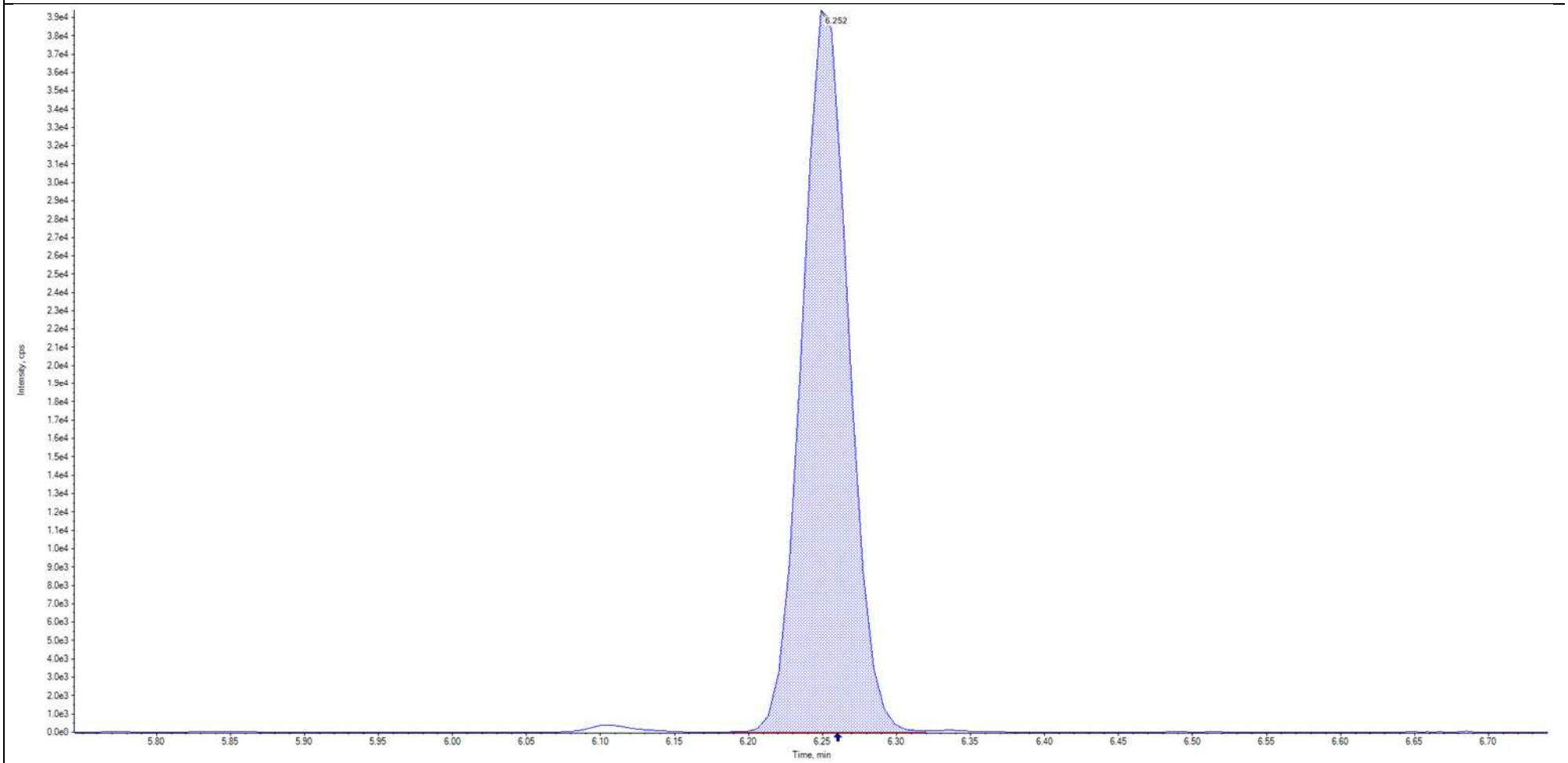
13C8-PFOSA
Sample: IA1633STD-12.5



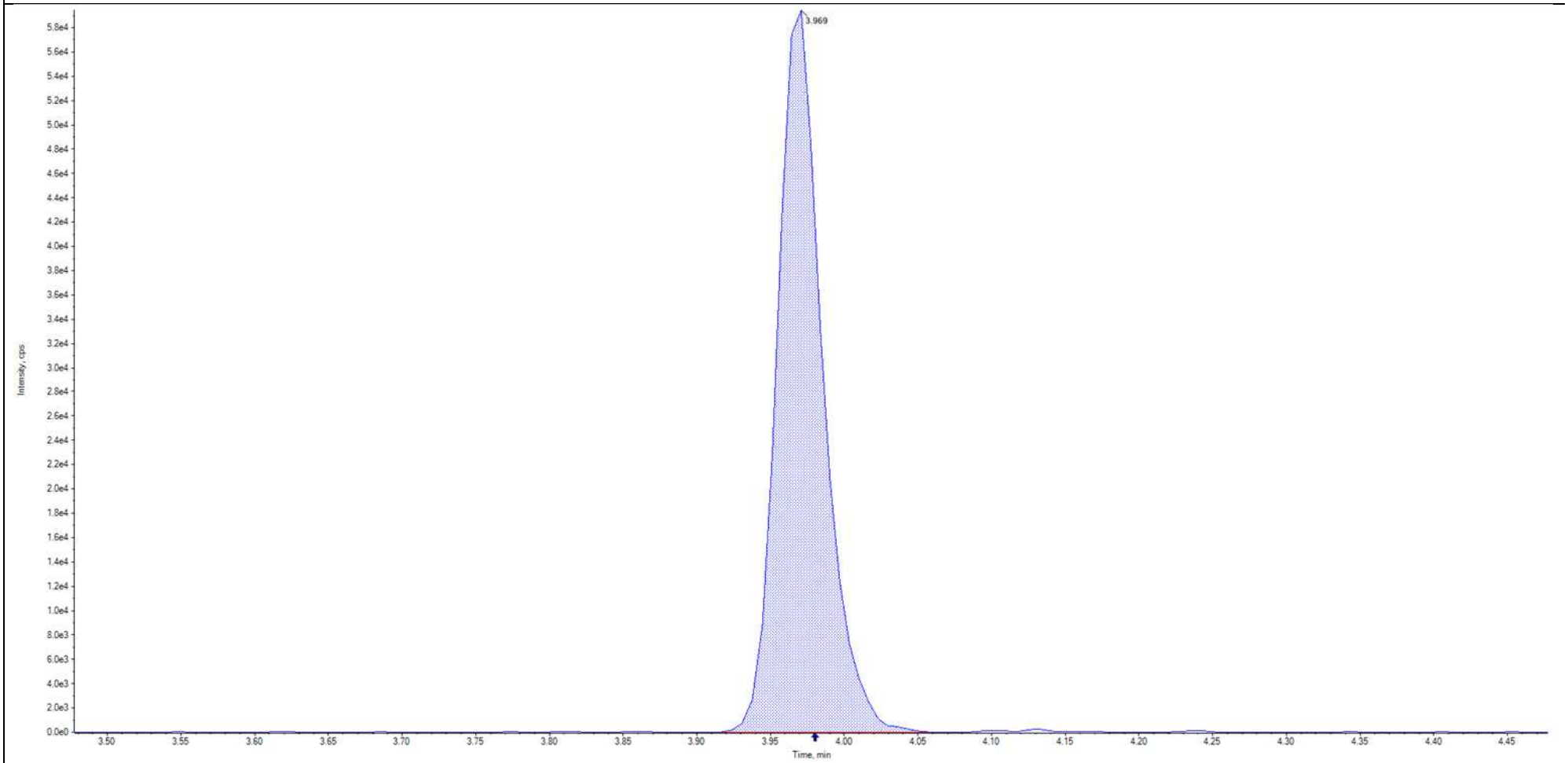
d3-NMeFOSA
Sample: IA1633STD-12.5



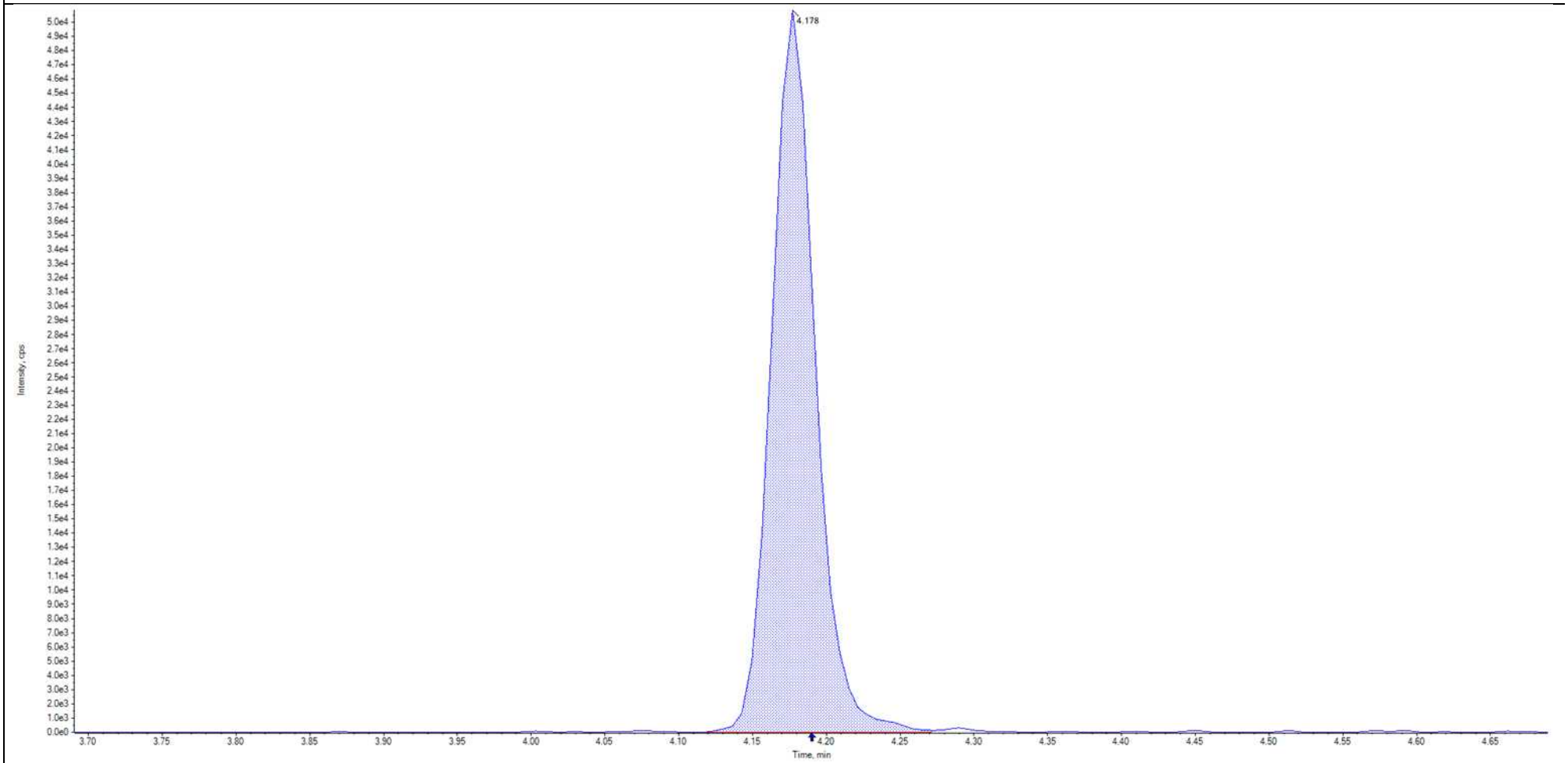
d5-NEtFOSA
Sample: IA1633STD-12.5



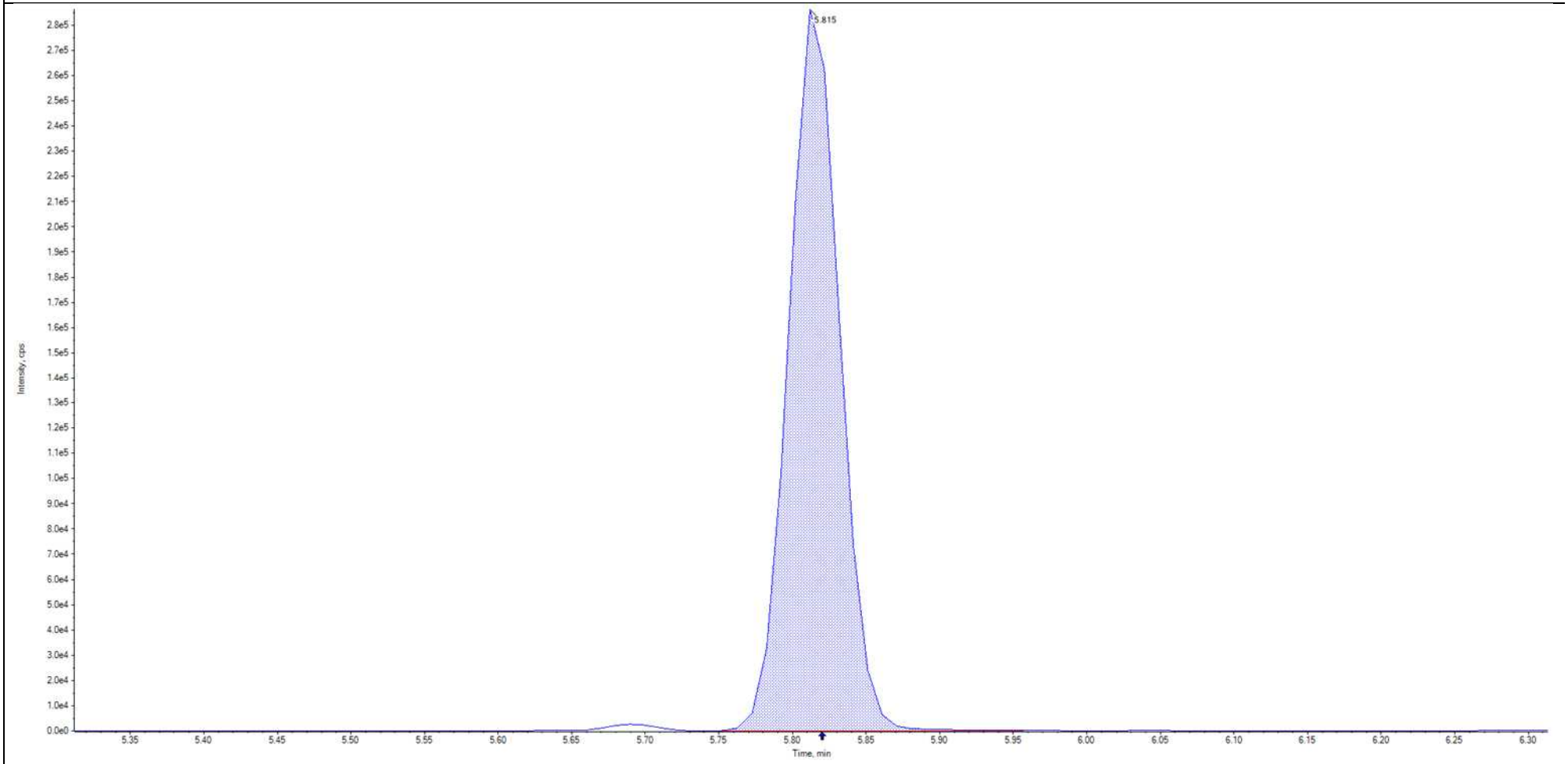
d3-NMeFOSAA
Sample: IA1633STD-12.5



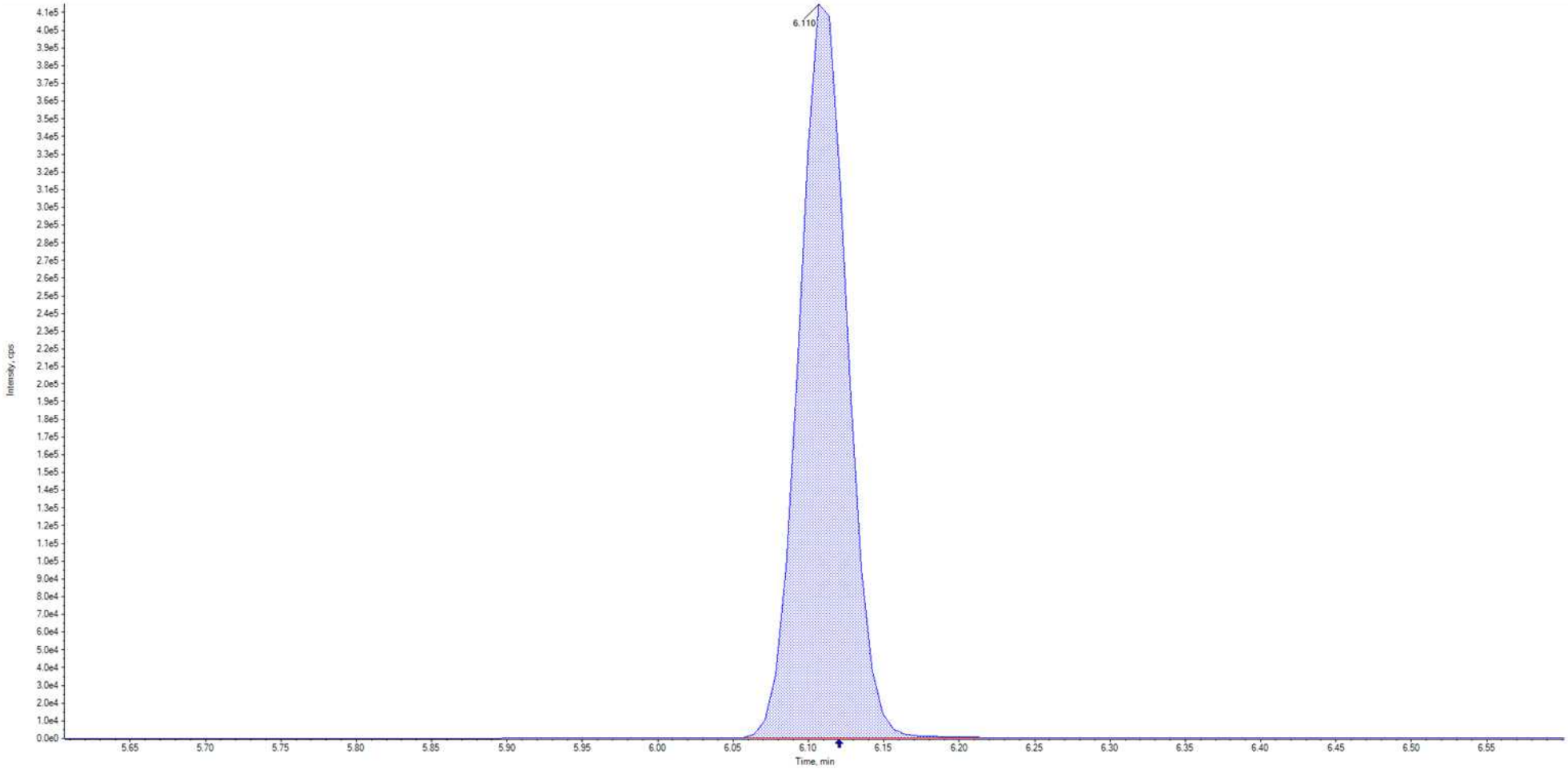
d5-NEtFOSAA
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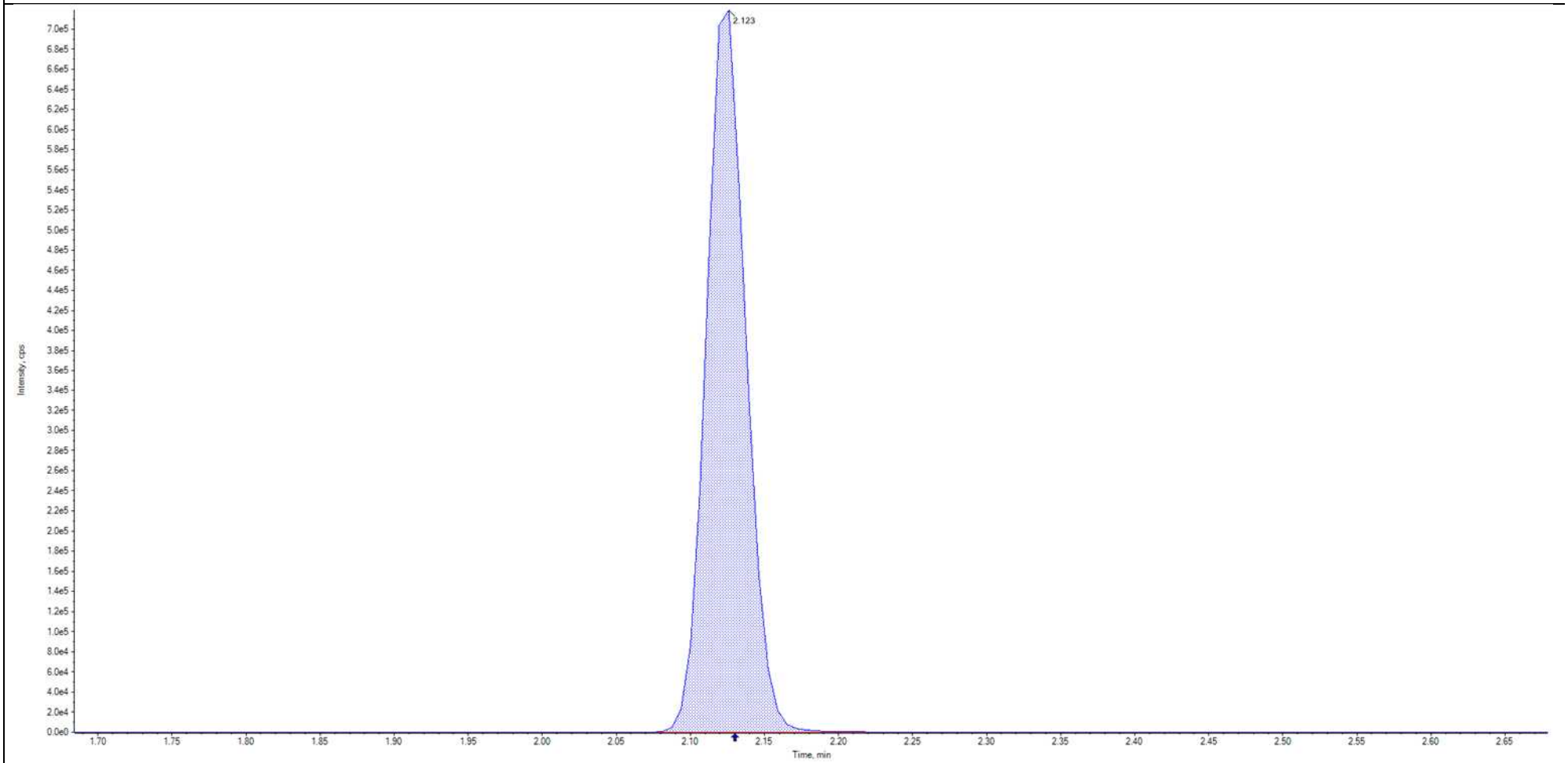
d7-NMeFOSE
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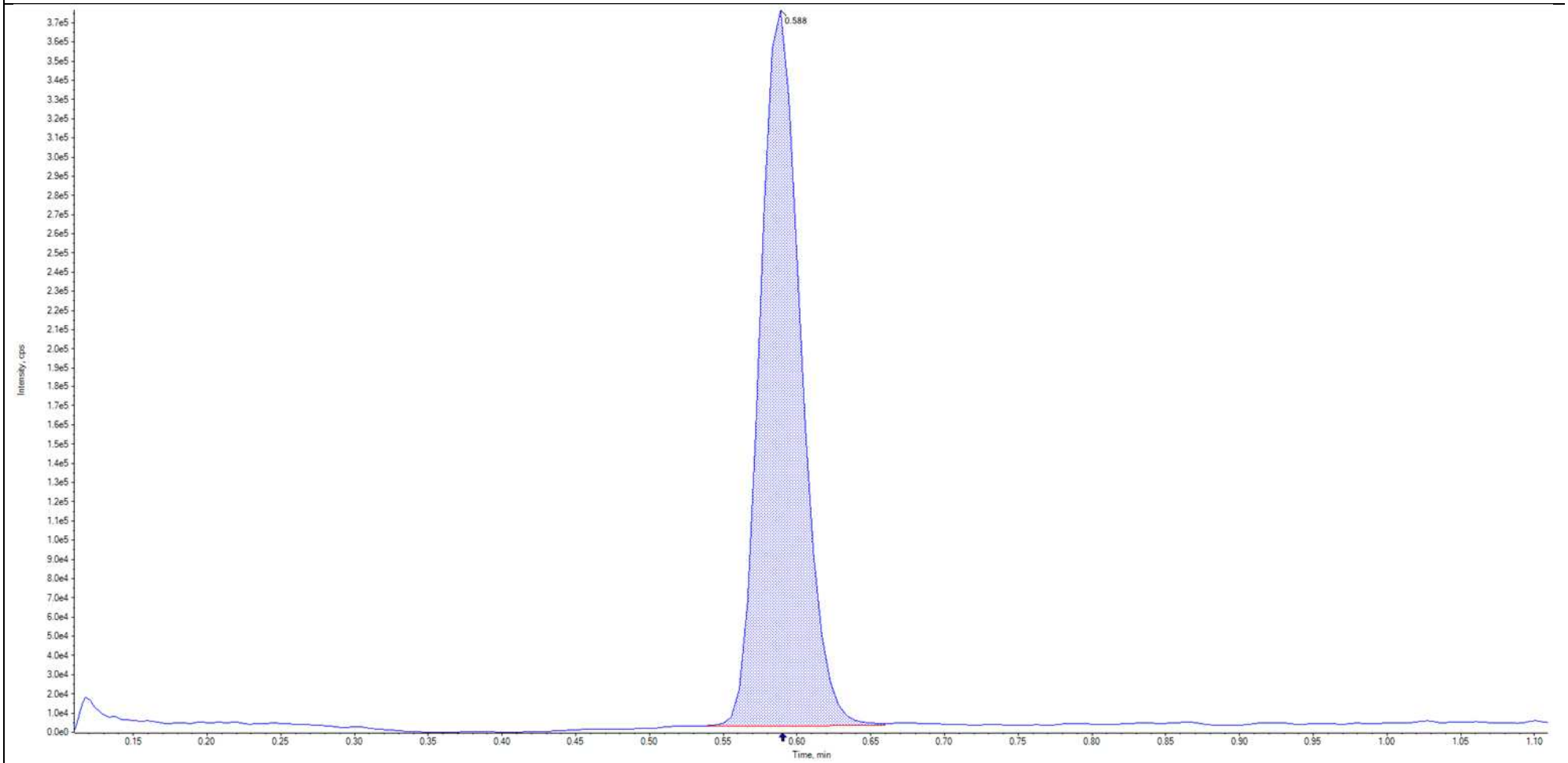
d9-NEtFOSE
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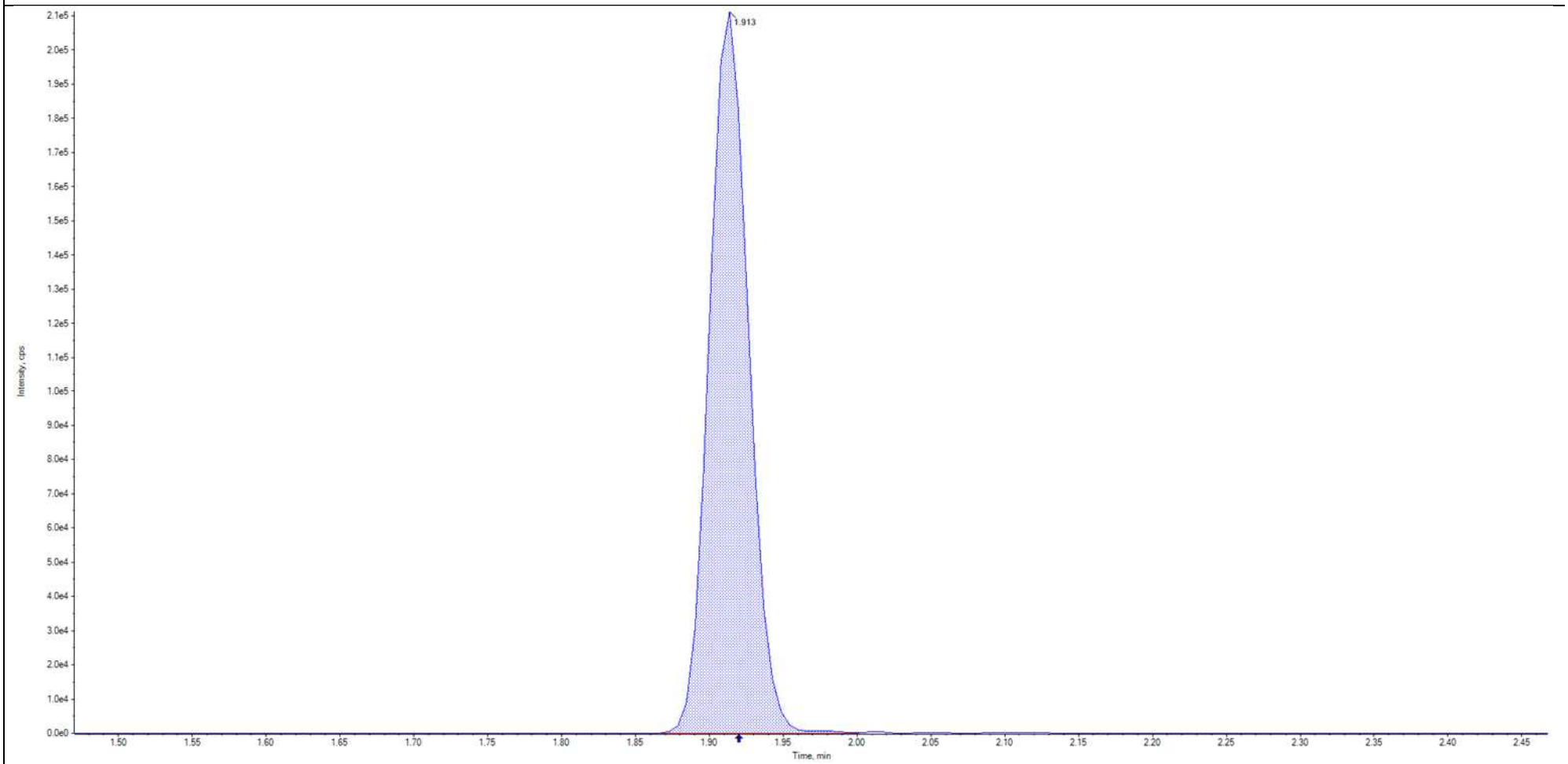
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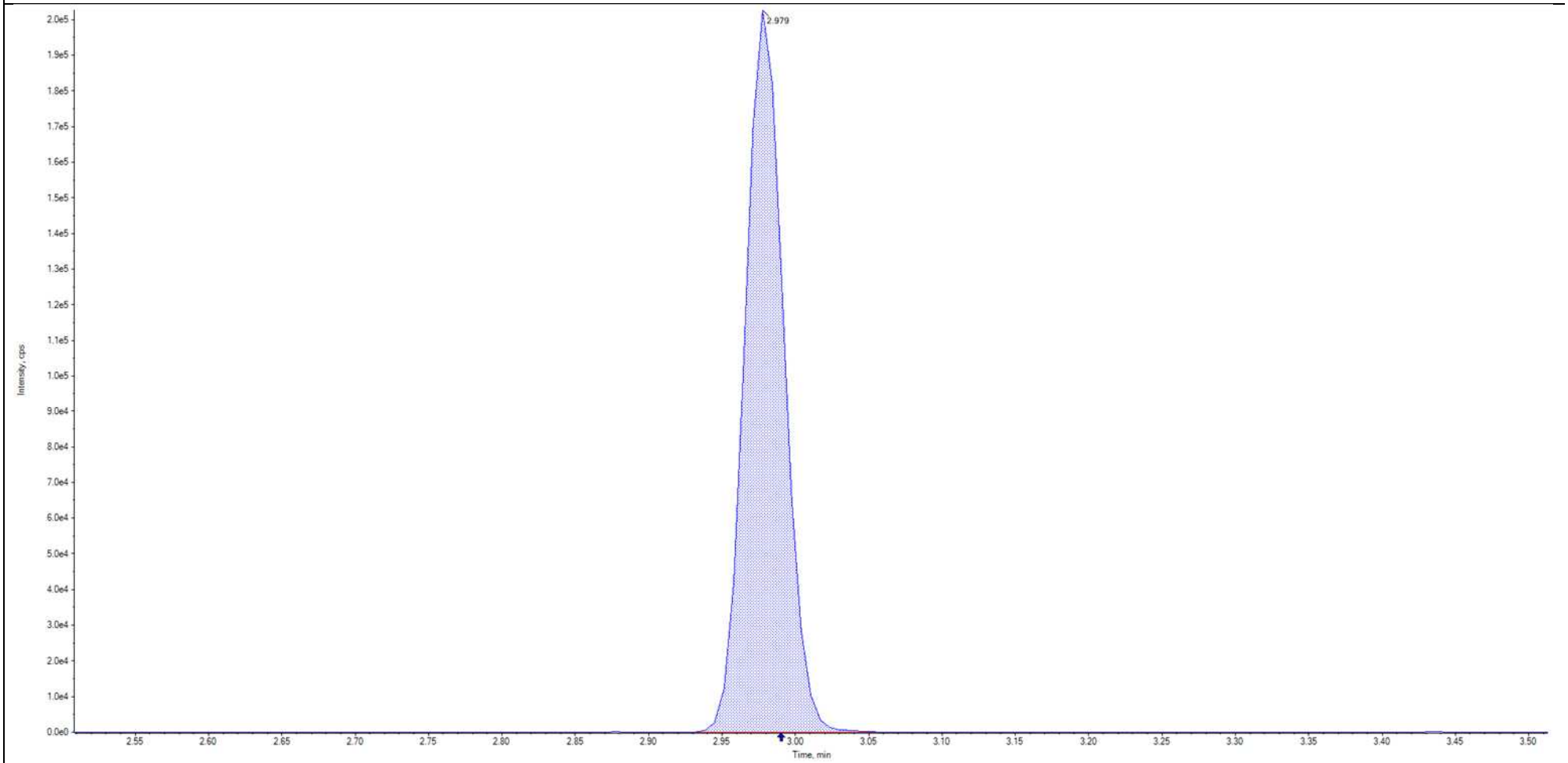
13C3-PFBA
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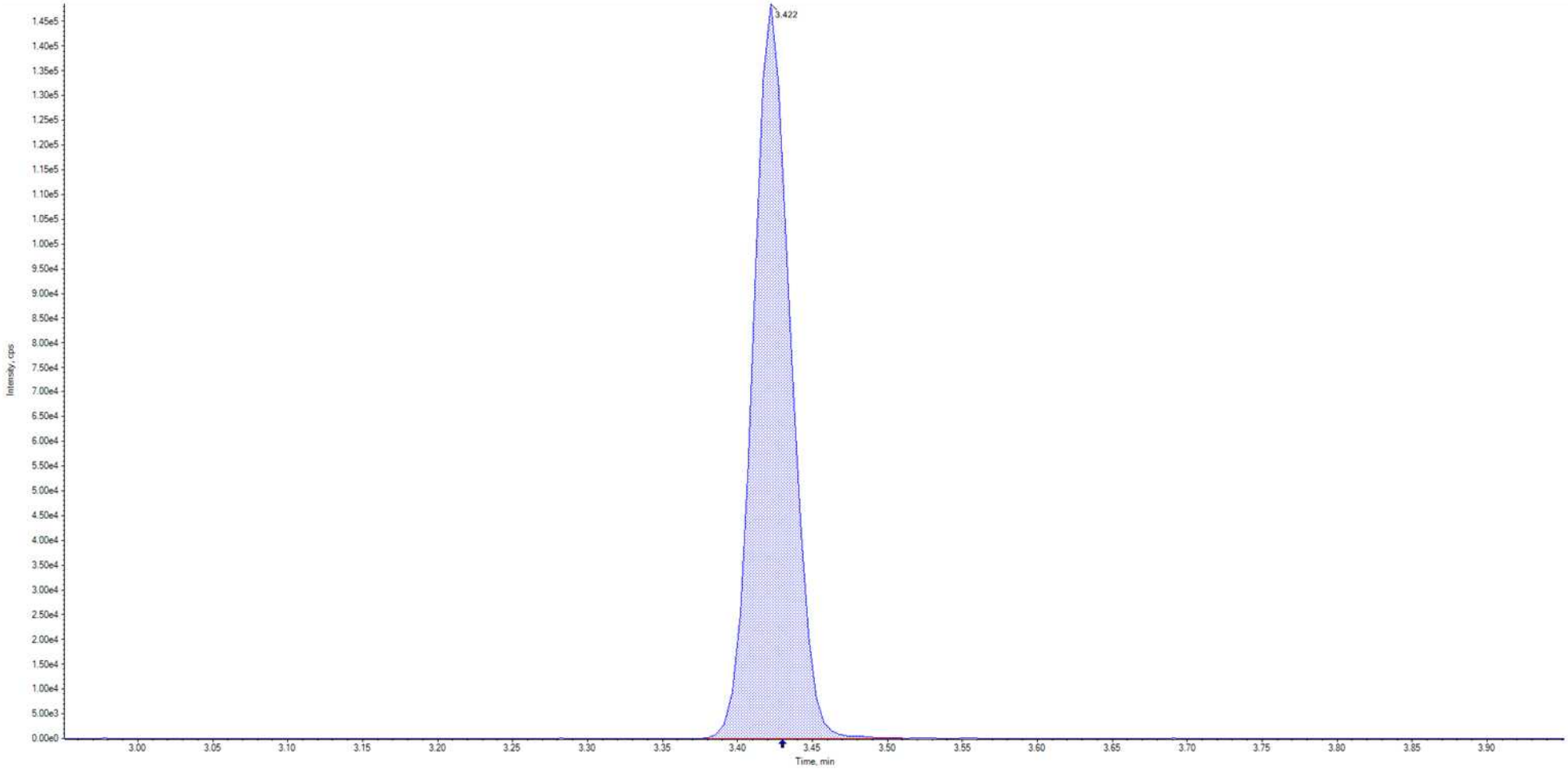
13C2-PFHxA
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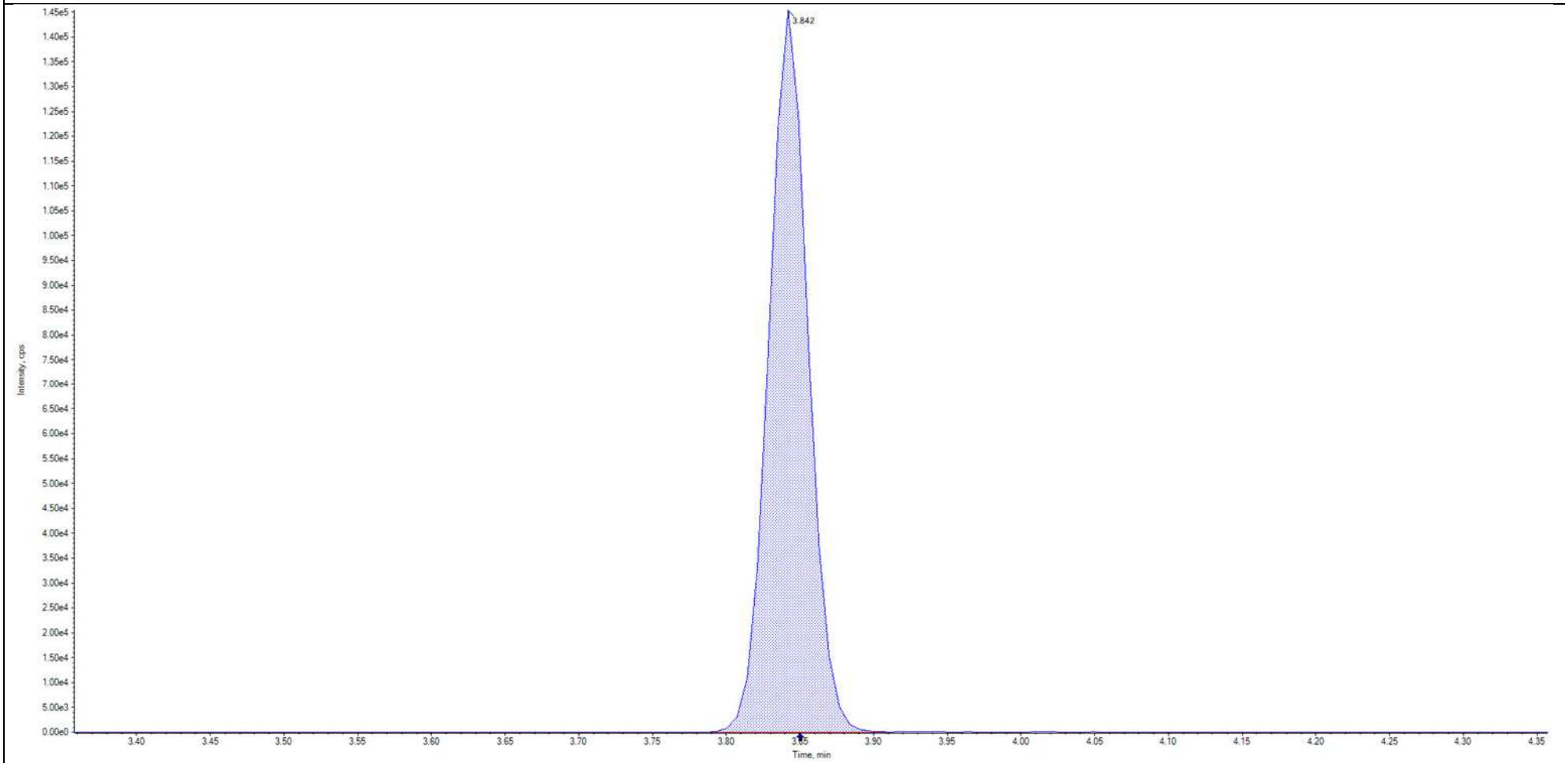
13C4-PFOA
Sample: IA1633STD-12.5



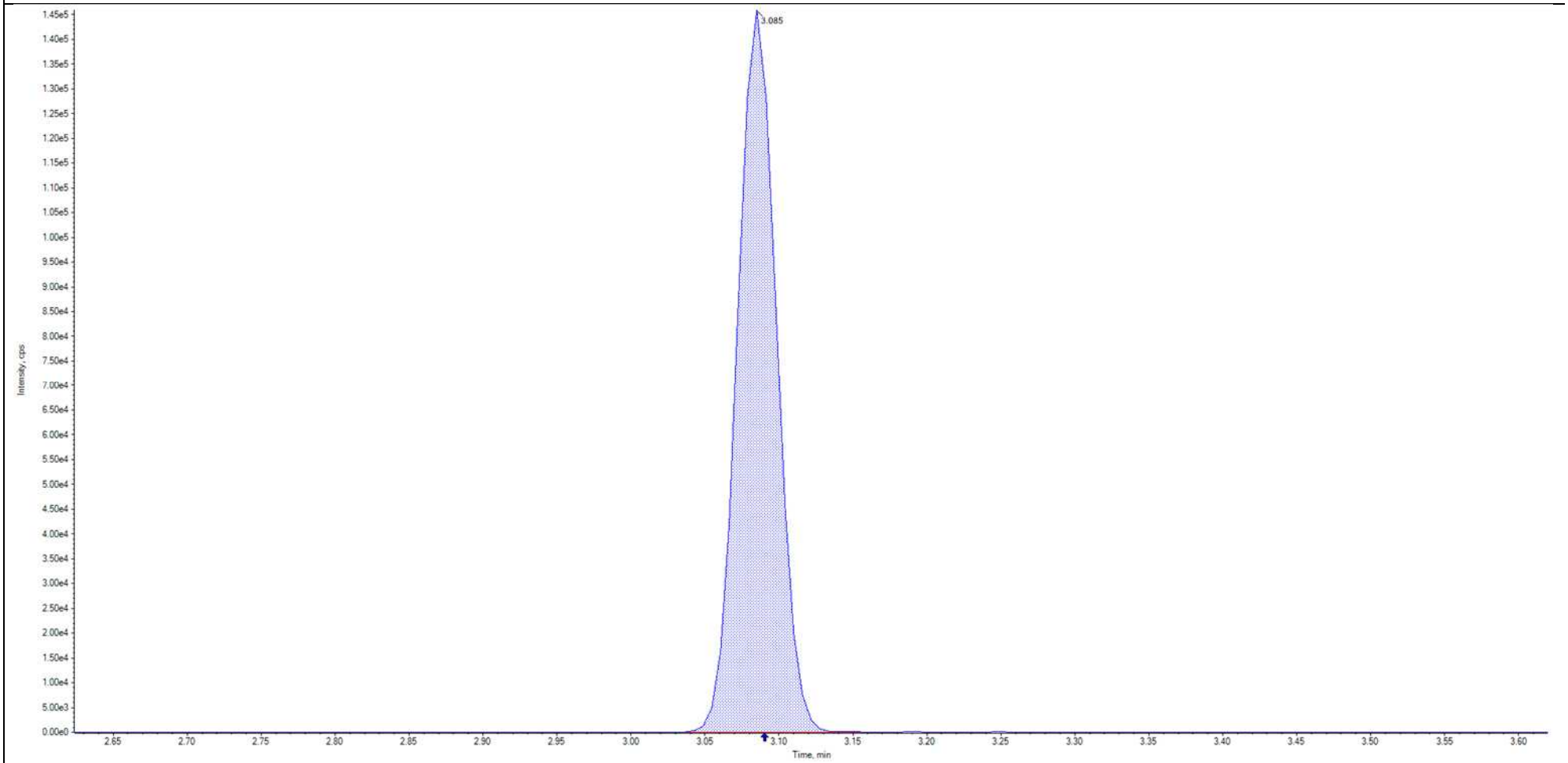
13C5-PFNA
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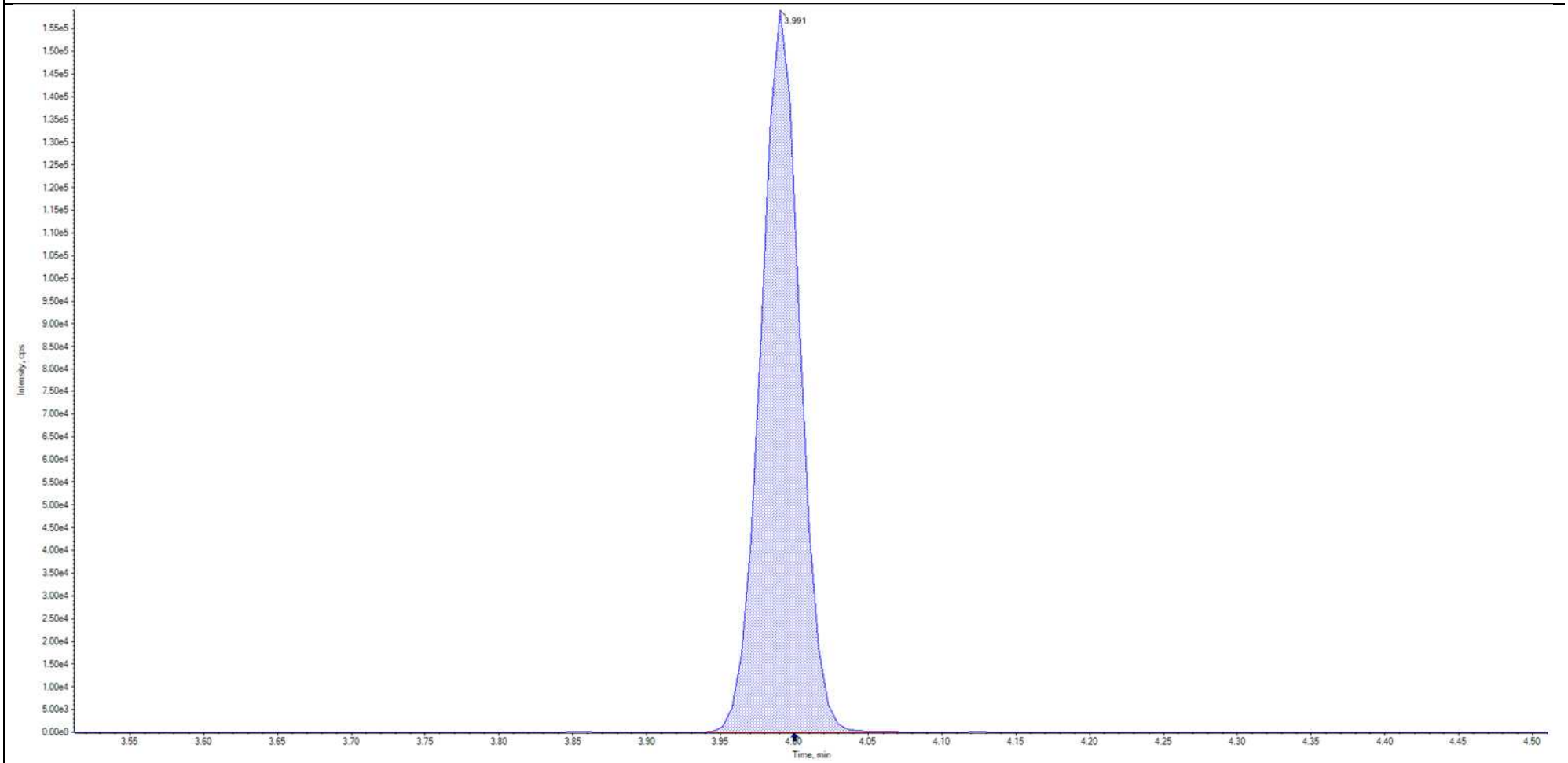
13C2-PFDA
Sample: IA1633STD-12.5



18O2-PFHxS
Sample: IA1633STD-12.5



13C4-PFOS
Sample: IA1633STD-12.5



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Alpha Analytical LLC
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Alpha Analytical LLC
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User: LCMS09:JW

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.59	213.0 / 169.0	12882735		99.592	N/A	N/A	N/A	99.6
2	PFPeA	2706-90-3	1.18	263.0 / 219.0	6731661		51.136	0.007	N/A	N/A	102.3
3	PFPeA_2	2706-90-3	1.18	263.0 / 68.9	47638		51.595	0.007	N/A	N/A	103.2
4	PFHxA	307-24-4	1.92	313.0 / 269.0	4283855		26.153	0.081	0.081	Pass	104.6
5	PFHxA_2	307-24-4	1.92	313.0 / 119.0	345107		24.780	0.081	0.081	Pass	99.1
6	PFHpA	375-85-9	2.49	363.1 / 319.0	4615047		25.582	0.386	0.373	Pass	102.3
7	PFHpA_2	375-85-9	2.49	363.1 / 169.0	1780927		25.004	0.386	0.373	Pass	100.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	2.98	413.1 / 369.1	4650748	M5	23.702	0.417	0.424	Pass	94.8
9	PFOA_2	335-67-1	2.98	413.1 / 169.0	1937983	M5	23.334	0.417	0.424	Pass	93.3
10	PFNA	375-95-1	3.43	462.8 / 418.9	3254324	M5	25.146	0.502	0.493	Pass	100.6
11	PFNA_2	375-95-1	3.43	462.8 / 219.0	1632476	M5	25.906	0.502	0.493	Pass	103.6
12	PFDA	335-76-2	3.85	513.1 / 469.1	4900144		26.597	0.187	0.188	Pass	106.4
13	PFDA_2	335-76-2	3.85	513.1 / 219.0	918498		27.077	0.187	0.188	Pass	108.3
14	PFUnA	2058-94-8	4.25	563.1 / 519.1	4930660		25.798	0.148	0.146	Pass	103.2
15	PFUnA_2	2058-94-8	4.25	563.1 / 269.0	730631		26.598	0.148	0.146	Pass	106.4
16	PFDoA	307-55-1	4.64	613.1 / 569.1	5751338		24.239	0.137	0.142	Pass	97.0
17	PFDoA_2	307-55-1	4.64	613.1 / 319.0	787803		24.092	0.137	0.142	Pass	96.4
18	PFTrDA	72629-94-8	5.02	663.1 / 619.1	4971702		23.851	0.157	0.152	Pass	95.4
19	PFTrDA_2	72629-94-8	5.02	663.1 / 169.0	780956		24.395	0.157	0.152	Pass	97.6
20	PFTeDA	376-06-7	5.39	713.1 / 669.1	4474053		24.931	0.162	0.154	Pass	99.7
21	PFTeDA_2	376-06-7	5.39	713.1 / 169.0	724361		24.722	0.162	0.154	Pass	98.9
22	PFBS	375-73-5	1.92	299.1 / 80.1	3430735		22.354	0.360	0.374	Pass	100.7

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.92	299.1 / 99.1	1234796		23.073	0.360	0.374	Pass	98.2
24	PFPeS	2706-91-4	2.56	349.1 / 80.1	3500458		24.807	0.317	0.314	Pass	105.6
25	PFPeS_2	2706-91-4	2.56	349.1 / 99.1	1109160		25.033	0.317	0.314	Pass	106.5
26	PFHxS	355-46-4	3.09	399.1 / 80.1	2820486	M5	21.887	0.313	0.306	Pass	96.0
27	PFHxS_2	355-46-4	3.09	399.1 / 99.1	882828		23.659	0.313	0.306	Pass	103.8
28	PFHpS	375-92-8	3.56	449.1 / 80.1	3139370		25.199	0.299	0.316	Pass	105.9
29	PFHpS_2	375-92-8	3.56	449.1 / 99.1	940011		24.659	0.299	0.316	Pass	103.6
30	PFOS	1763-23-1	4.00	499.1 / 80.1	3530703	M5	23.299	0.253	0.244	Pass	100.4
31	PFOS_2	1763-23-1	4.00	499.1 / 99.1	894478	M5	23.494	0.253	0.244	Pass	101.3
32	PFNS	68259-12-1	4.41	549.1 / 80.1	2718126		26.345	0.279	0.294	Pass	109.8
33	PFNS_2	68259-12-1	4.41	549.1 / 99.1	758136		25.706	0.279	0.294	Pass	107.1
34	PFDS	335-77-3	4.80	599.1 / 80.1	2594683		25.598	0.286	0.290	Pass	106.2
35	PFDS_2	335-77-3	4.80	599.1 / 99.1	743327		25.969	0.286	0.290	Pass	107.8
36	PFDoS	79780-39-5	5.55	699.2 / 80.1	2467934		26.723	0.250	0.256	Pass	110.4
37	PFDoS_2	79780-39-5	5.55	699.2 / 99.1	616630		25.905	0.250	0.256	Pass	107.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.71	327.1 / 307.1	3184094		92.227	0.663	0.650	Pass	98.4
39	4:2FTS_2	757124-72-4	1.71	327.1 / 81.1	2112038		94.783	0.663	0.650	Pass	101.2
40	6:2FTS	27619-97-2	2.80	427.2 / 407.2	2925605		99.064	0.644	0.620	Pass	104.2
41	6:2FTS_2	27619-97-2	2.80	427.2 / 81.1	1883076		99.482	0.644	0.620	Pass	104.6
42	8:2FTS	39108-34-4	3.66	527.2 / 507.2	2370696		91.288	0.655	0.676	Pass	95.1
43	8:2FTS_2	39108-34-4	3.66	527.2 / 81.1	1553114		86.877	0.655	0.676	Pass	90.5
44	PFOSA	754-91-6	5.23	498.1 / 78.1	4520171	M5	25.508	0.024	0.026	Pass	102.0
45	PFOSA_2	754-91-6	5.23	498.1 / 478.0	107583	M5	23.501	0.024	0.026	Pass	94.0
46	NMeFOSA	31506-32-8	5.97	512.2 / 219.0	1158854	M5	26.842	1.381	1.377	Pass	107.4
47	NMeFOSA_2	31506-32-8	5.93	512.2 / 169.0	1600670	M5	26.682	1.381	1.377	Pass	106.7
48	NEtFOSA	4151-50-2	6.27	526.2 / 219.0	1109116		25.375	1.277	1.292	Pass	101.5
49	NEtFOSA_2	4151-50-2	6.23	526.2 / 169.0	1416485		25.973	1.277	1.292	Pass	103.9
50	NMeFOSAA	2355-31-9	3.98	570.2 / 419.1	622923		25.201	0.690	0.697	Pass	100.8
51	NMeFOSAA_2	2355-31-9	3.98	570.2 / 483.0	429736		24.199	0.690	0.697	Pass	96.8
52	NEtFOSAA	2991-50-6	4.19	584.2 / 419.1	637334		27.008	0.536	0.557	Pass	108.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.19	584.2 / 526.2	341636	M5	26.265	0.536	0.557	Pass	105.1
54	NMeFOSE	24448-09-7	5.84	616.1 / 58.9	16569436	M5	257.678	N/A	N/A	N/A	103.1
55	NEtFOSE	1691-99-2	6.14	630.0 / 58.9	22852970	M5	257.471	N/A	N/A	N/A	103.0
56	HFPO-DA	13252-13-6	2.13	285.0 / 169.0	13910898		99.610	0.553	0.501	Pass	99.6
57	HFPO-DA_2	13252-13-6	2.13	285.0 / 184.9	7688877		104.424	0.553	0.501	Pass	104.4
58	ADONA	919005-14-4	2.68	376.9 / 251.0	25930873		97.522	0.600	0.691	Pass	103.2
59	ADONA_2	919005-14-4	2.68	376.9 / 84.8	15548513		88.263	0.600	0.691	Pass	93.4
60	9Cl-PF3ONS	756426-58-1	4.28	530.8 / 351.1	23659955		91.623	0.333	0.332	Pass	98.2
61	9Cl-PF3ONS_2	756426-58-1	4.28	532.8 / 353.0	7886520		91.881	0.333	0.332	Pass	98.5
62	11Cl-PF3OUdS	763051-92-9	5.07	630.9 / 451.0	20368386		93.275	0.322	0.322	Pass	98.9
63	11Cl-PF3OUdS_2	763051-92-9	5.07	632.9 / 452.9	6564879		93.659	0.322	0.322	Pass	99.3
64	3:3FTCA	356-02-5	1.57	241.1 / 177.1	1415043		139.211	1.049	1.010	Pass	111.4
65	3:3FTCA_2	356-02-5	1.57	241.1 / 117.0	1485047		134.548	1.049	1.010	Pass	107.6
66	5:3FTCA	914637-49-3	3.03	341.1 / 237.1	25694766		627.339	1.006	1.017	Pass	100.4
67	5:3FTCA_2	914637-49-3	3.03	341.1 / 217.0	25859917		626.623	1.006	1.017	Pass	100.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.06	441.1 / 316.9	24676376		702.540	1.219	1.343	Pass	112.4
69	7:3FTCA_2	812-70-4	4.06	441.1 / 337.1	30072402		647.680	1.219	1.343	Pass	103.6
70	PFEESA	113507-82-7	2.22	315.1 / 135.0	19431116		45.649	0.086	0.081	Pass	102.4
71	PFEESA_2	113507-82-7	2.22	315.1 / 82.9	1679296		47.966	0.086	0.081	Pass	107.6
72	PFMPA	377-73-1	0.75	229.0 / 85.0	7200947		53.220	N/A	N/A	N/A	106.4
73	PFMBA	863090-89-5	1.44	279.0 / 85.0	7792939		51.721	N/A	N/A	N/A	103.4
74	NFDHA	151772-58-6	1.84	295.0 / 201.0	5669052		50.880	0.725	0.681	Pass	101.8
75	NFDHA_2	151772-58-6	1.84	295.0 / 84.9	4108479		52.100	0.725	0.681	Pass	104.2
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	1.70	333.2 / 312.1	124643		4.923	N/A	N/A	N/A	98.5
79	13C2-PFOA	Surr	2.98	415.0 / 370.0	288456		2.425	N/A	N/A	N/A	97.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.59	217.0 / 172.0	1447437		9.993	NA	NA	NA	99.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.18	268.0 / 223.0	685863		4.978	NA	NA	NA	99.6
	13C5-PFHxA	EIS	1.91	318.0 / 273.0	319770		2.469	NA	NA	NA	98.7
	13C4-PFHpA	EIS	2.49	367.0 / 322.0	310681		2.486	NA	NA	NA	99.5
	13C8-PFOA	EIS	2.98	420.8 / 376.0	573938		2.684	NA	NA	NA	107.4
	13C9-PFNA	EIS	3.42	472.0 / 427.0	239909		1.289	NA	NA	NA	103.2
	13C6-PFDA	EIS	3.84	519.0 / 474.0	260492		1.198	NA	NA	NA	95.9
	13C7-PFUnA	EIS	4.25	570.0 / 525.0	282174		1.176	NA	NA	NA	94.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.64	615.1 / 570.0	313864		1.301	NA	NA	NA	104.0
	13C2-PFTeDA	EIS	5.38	715.1 / 670.1	197382		1.261	NA	NA	NA	100.9
	13C3-PFBS	EIS	1.91	302.1 / 80.1	336610		2.344	NA	NA	NA	100.6
	13C3-PFHxS	EIS	3.09	402.1 / 80.1	294893		2.310	NA	NA	NA	97.5
	13C8-PFOS	EIS	3.99	507.1 / 80.1	317869		2.327	NA	NA	NA	97.0
	13C2-4:2FTS	EIS	1.71	329.1 / 81.1	105202		4.967	NA	NA	NA	105.9
	13C2-6:2FTS	EIS	2.80	429.2 / 81.1	87393		4.793	NA	NA	NA	100.7
	13C2-8:2FTS	EIS	3.66	529.2 / 81.1	93679		5.075	NA	NA	NA	105.7

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.23	506.1 / 78.1	553248		2.551	NA	NA	NA	102.1
d3-NMeFOSA	EIS	5.96	515.2 / 219.0	96291		2.459	NA	NA	NA	98.4
d5-NEtFOSA	EIS	6.25	531.2 / 219.0	89693		2.519	NA	NA	NA	100.8
d3-NMeFOSAA	EIS	3.97	573.2 / 419.1	135961		5.075	NA	NA	NA	101.5
d5-NEtFOSAA	EIS	4.18	589.3 / 419.1	108839		5.084	NA	NA	NA	101.7
d7-NMeFOSE	EIS	5.82	623.2 / 58.9	709614		25.195	NA	NA	NA	100.8
d9-NEtFOSE	EIS	6.11	639.2 / 58.9	939611		24.869	NA	NA	NA	99.5

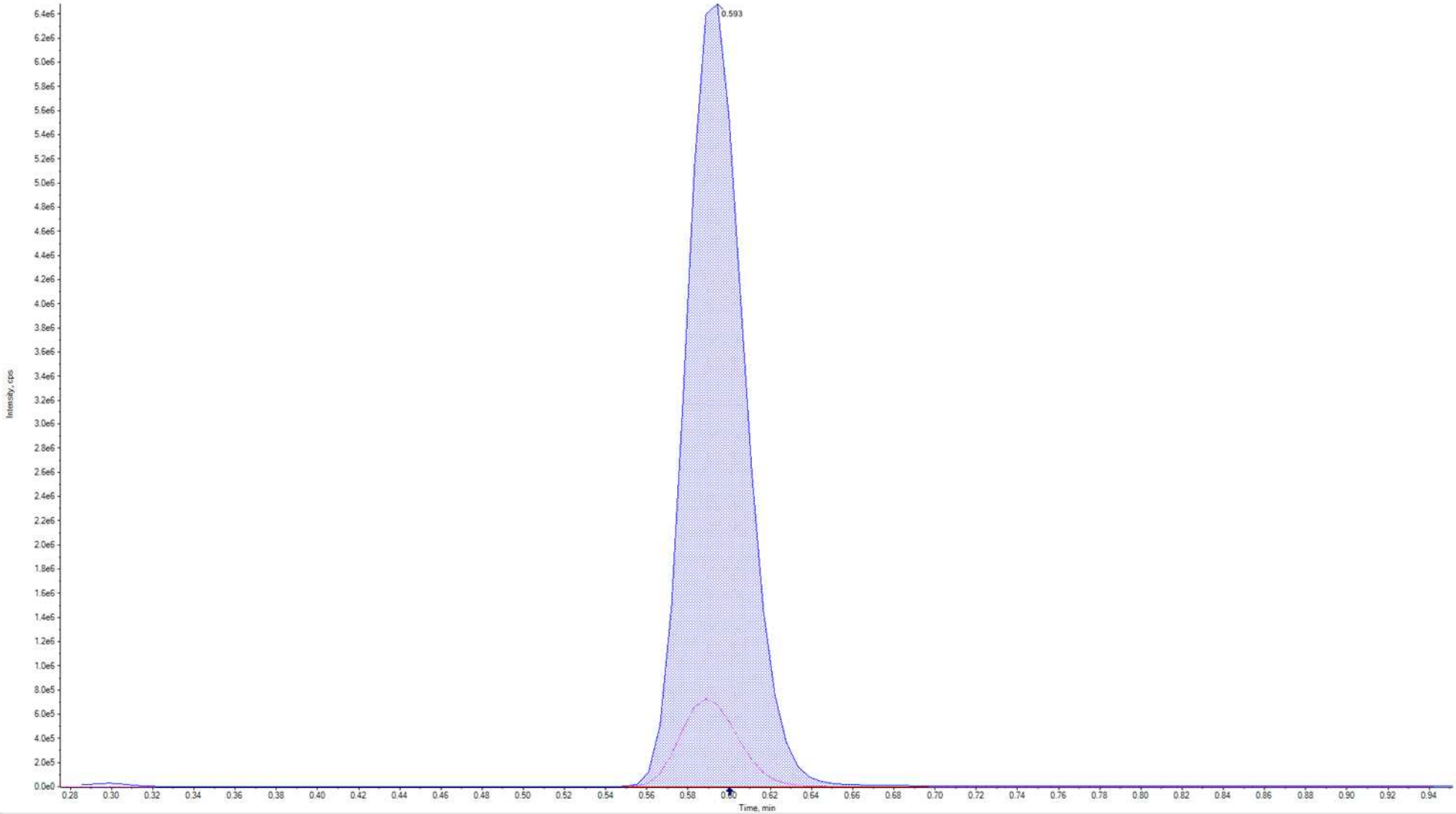
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	13C3-HFPO-DA	EIS	2.12	287.0 / 169.0	1378029		10.058	NA	NA	NA	100.6
	13C3-PFBA	NIS	0.59	216.0 / 172.0	640882		4.422	NA	NA	NA	88.4
	13C2-PFHxA	NIS	1.91	315.0 / 270.0	381434		2.354	NA	NA	NA	94.1
	13C4-PFOA	NIS	2.98	417.0 / 372.0	324971		2.260	NA	NA	NA	90.4
	13C5-PFNA	NIS	3.42	468.0 / 423.0	233033		1.131	NA	NA	NA	90.5
	13C2-PFDA	NIS	3.84	515.1 / 470.1	253712		1.193	NA	NA	NA	95.5
	18O2-PFHxS	NIS	3.08	403.1 / 84.1	268416		2.280	NA	NA	NA	96.2
	13C4-PFOS	NIS	3.99	503.1 / 80.1	274782		2.286	NA	NA	NA	95.2

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

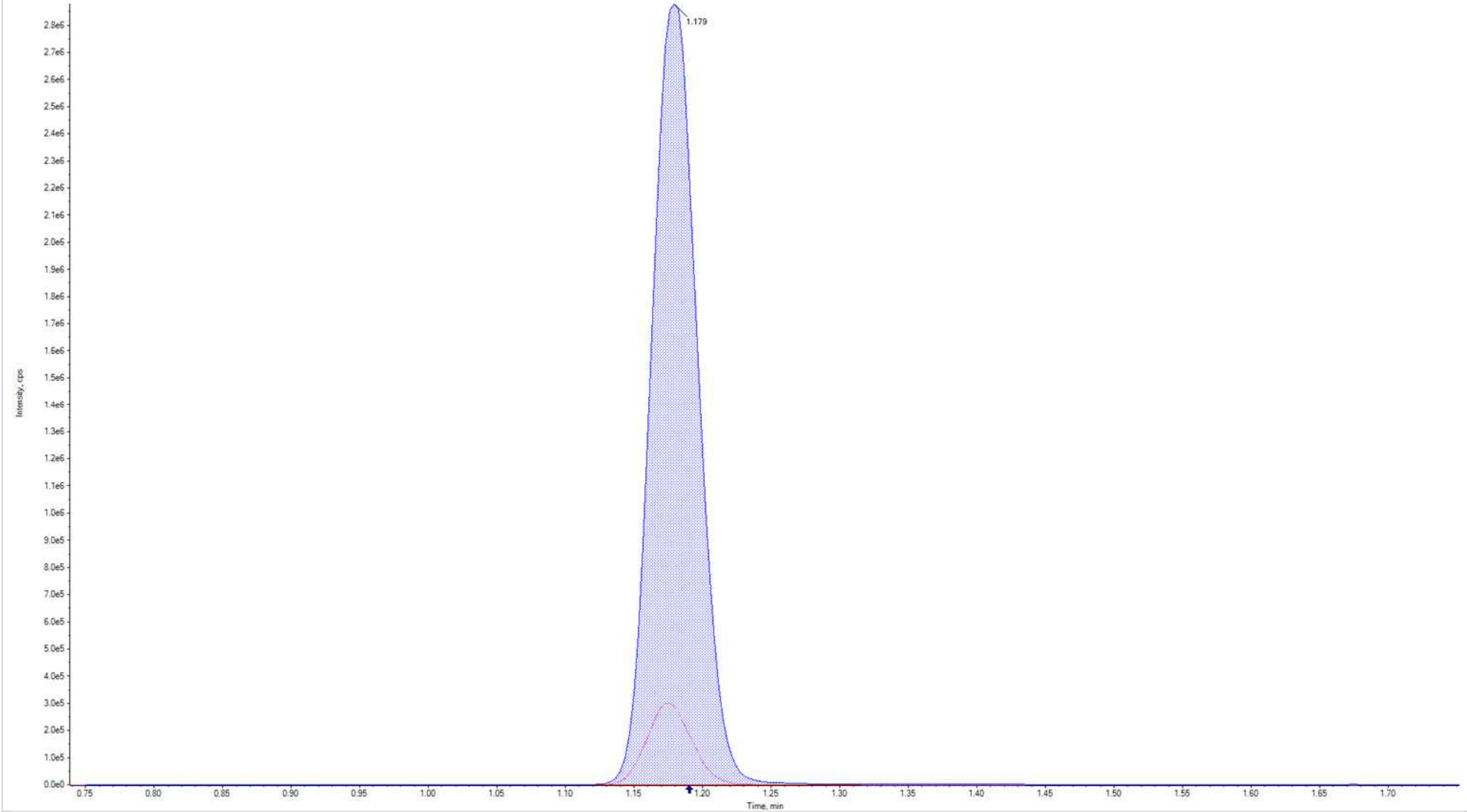
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PFBA
Sample: IA1633STD-25 S/N:5846.5 Points Across peak:31



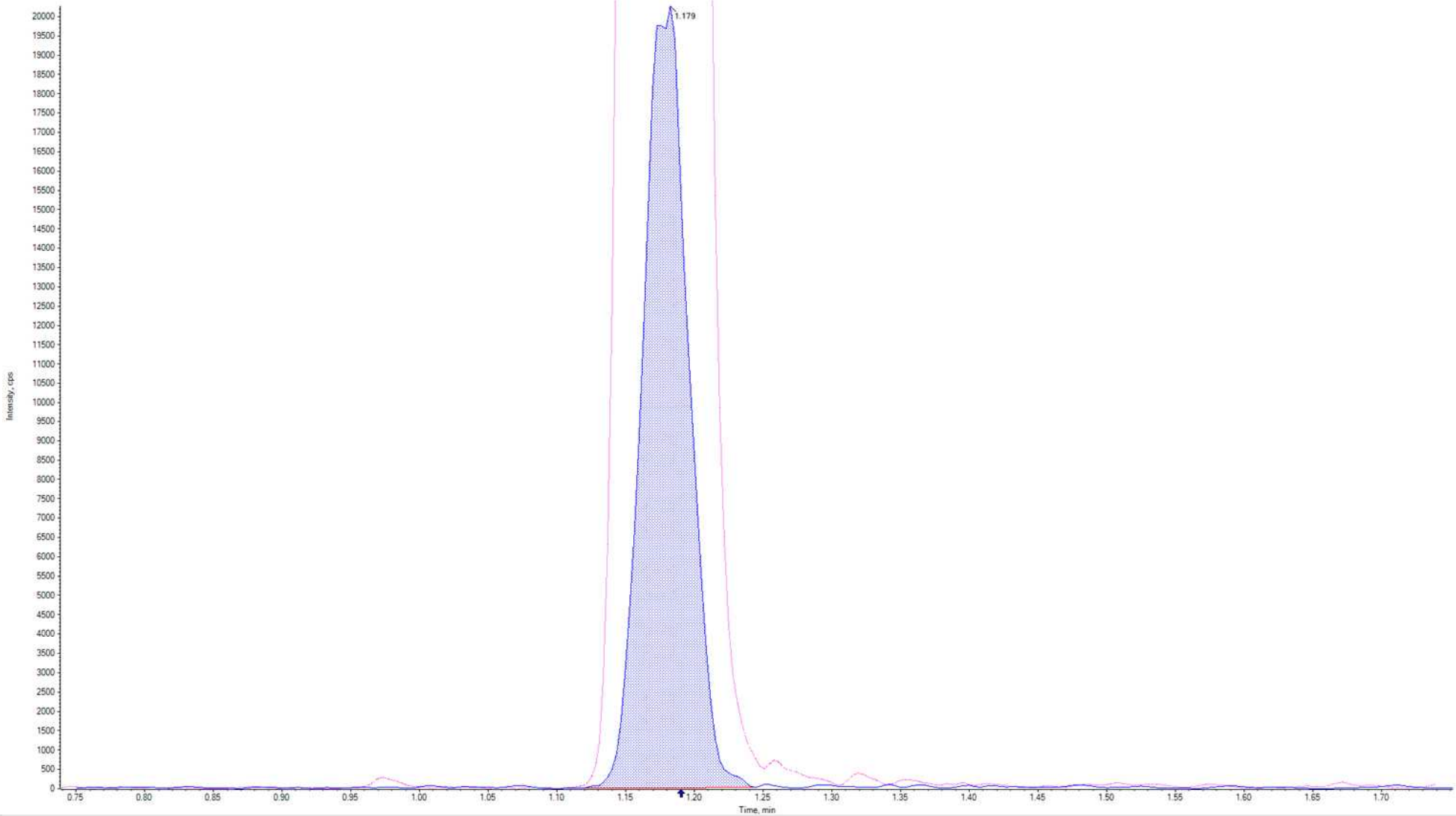
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFPeA
Sample: IA1633STD-25 S/N:11860.1 Points Across peak:65



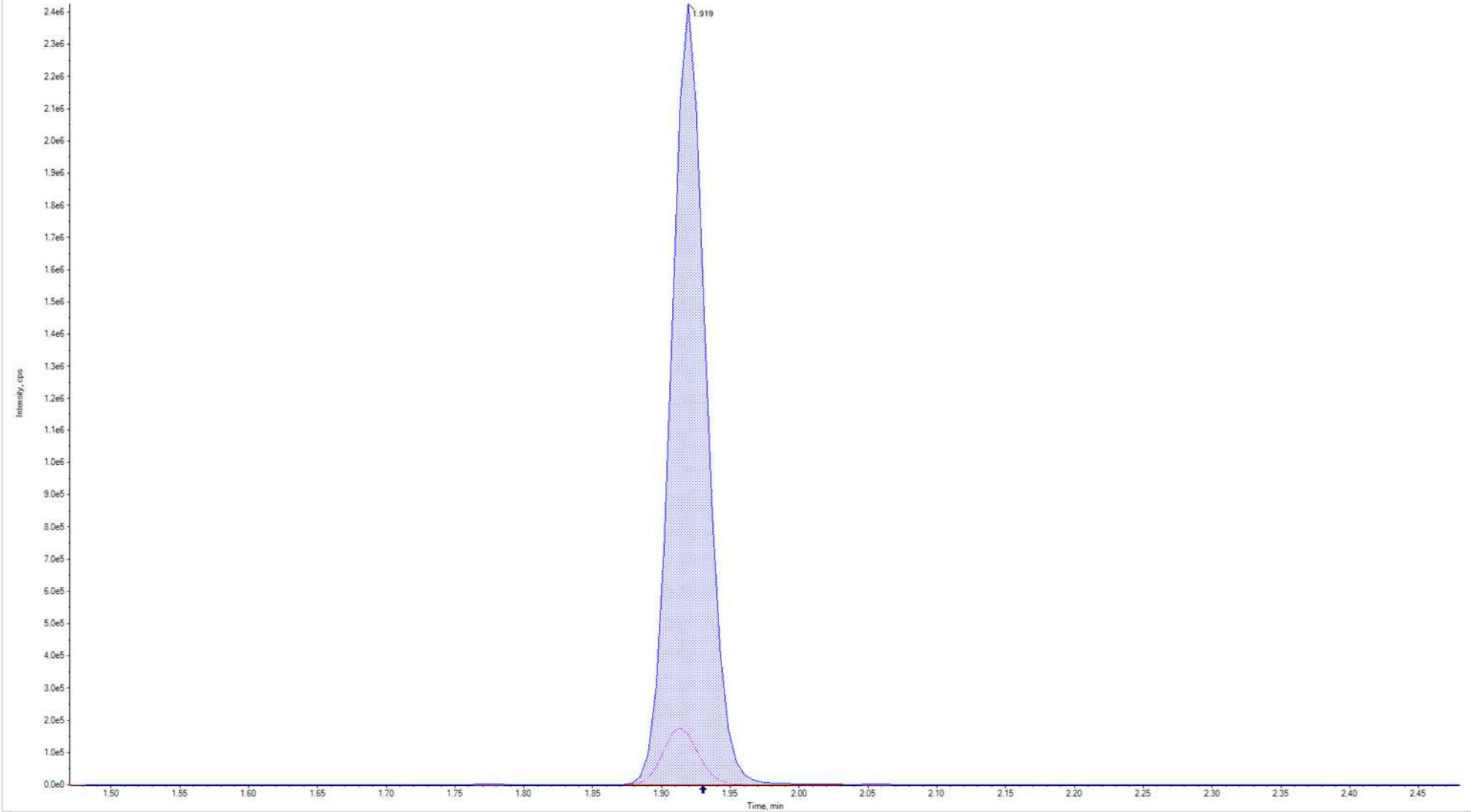
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFPeA_2
Sample: IA1633STD-25 S/N:1217.9 Points Across peak:42



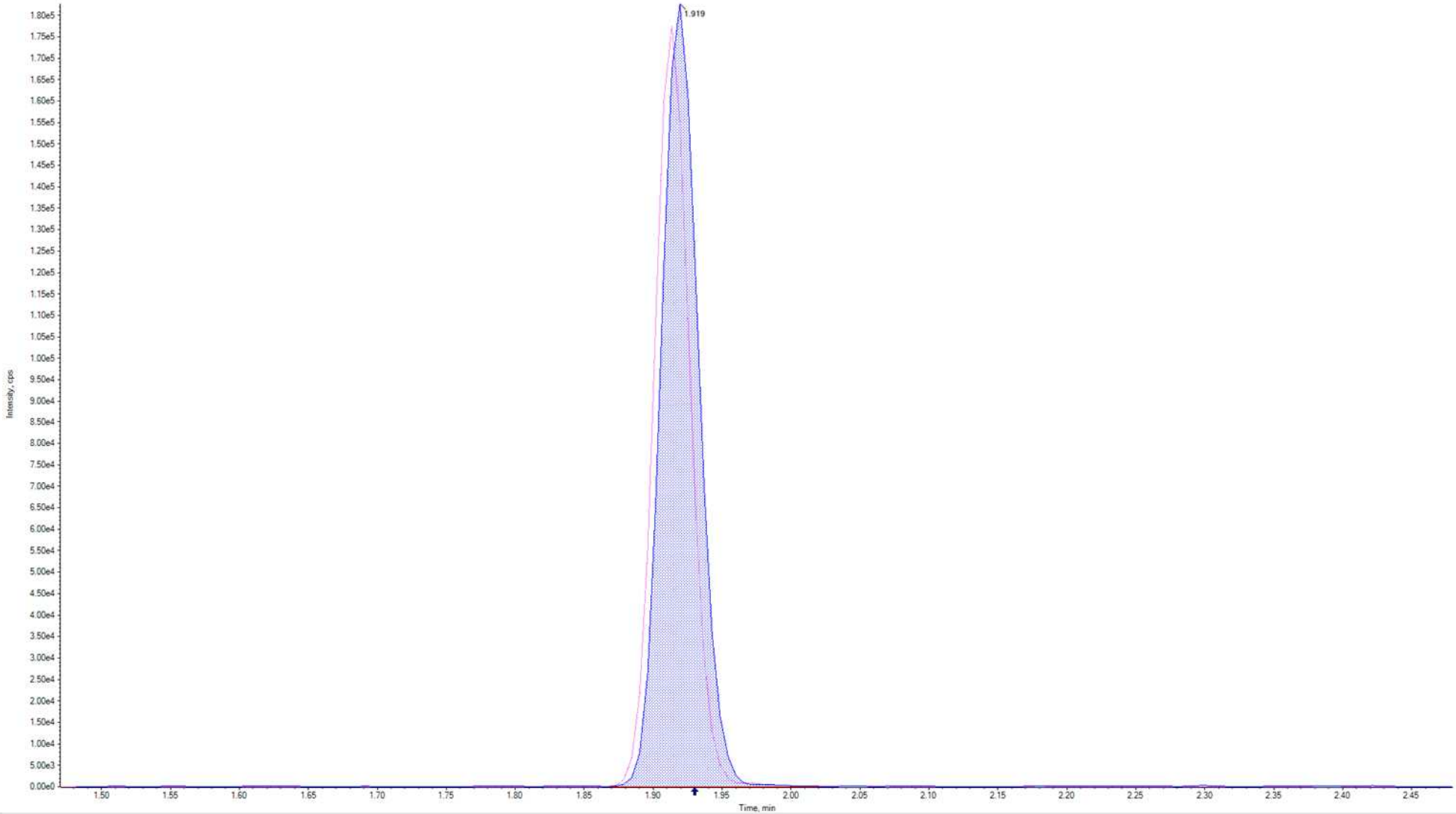
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHxA
Sample: IA1633STD-25 S/N:7696.6 Points Across peak:34



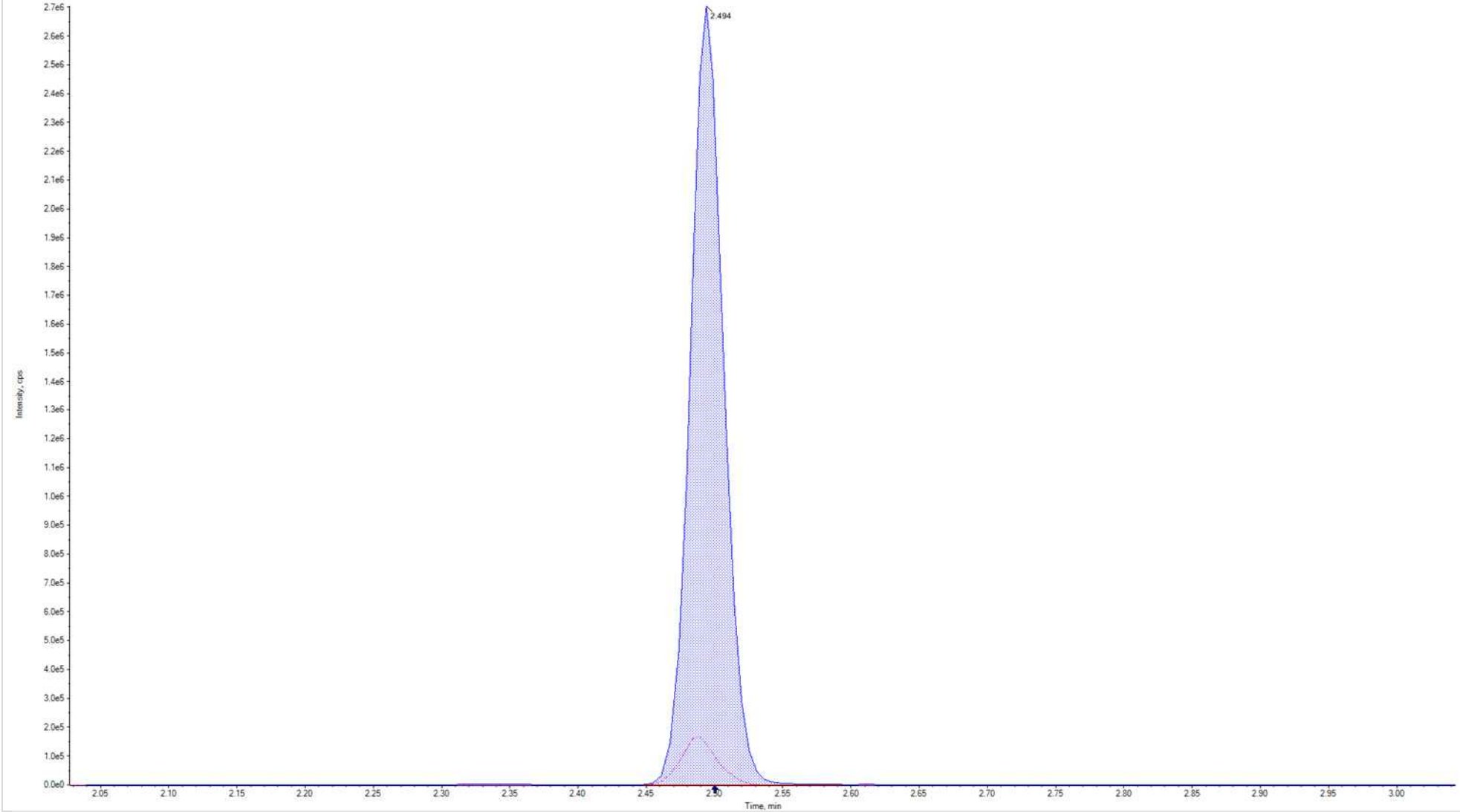
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHxA_2
Sample: IA1633STD-25 S/N:4577.4 Points Across peak:29



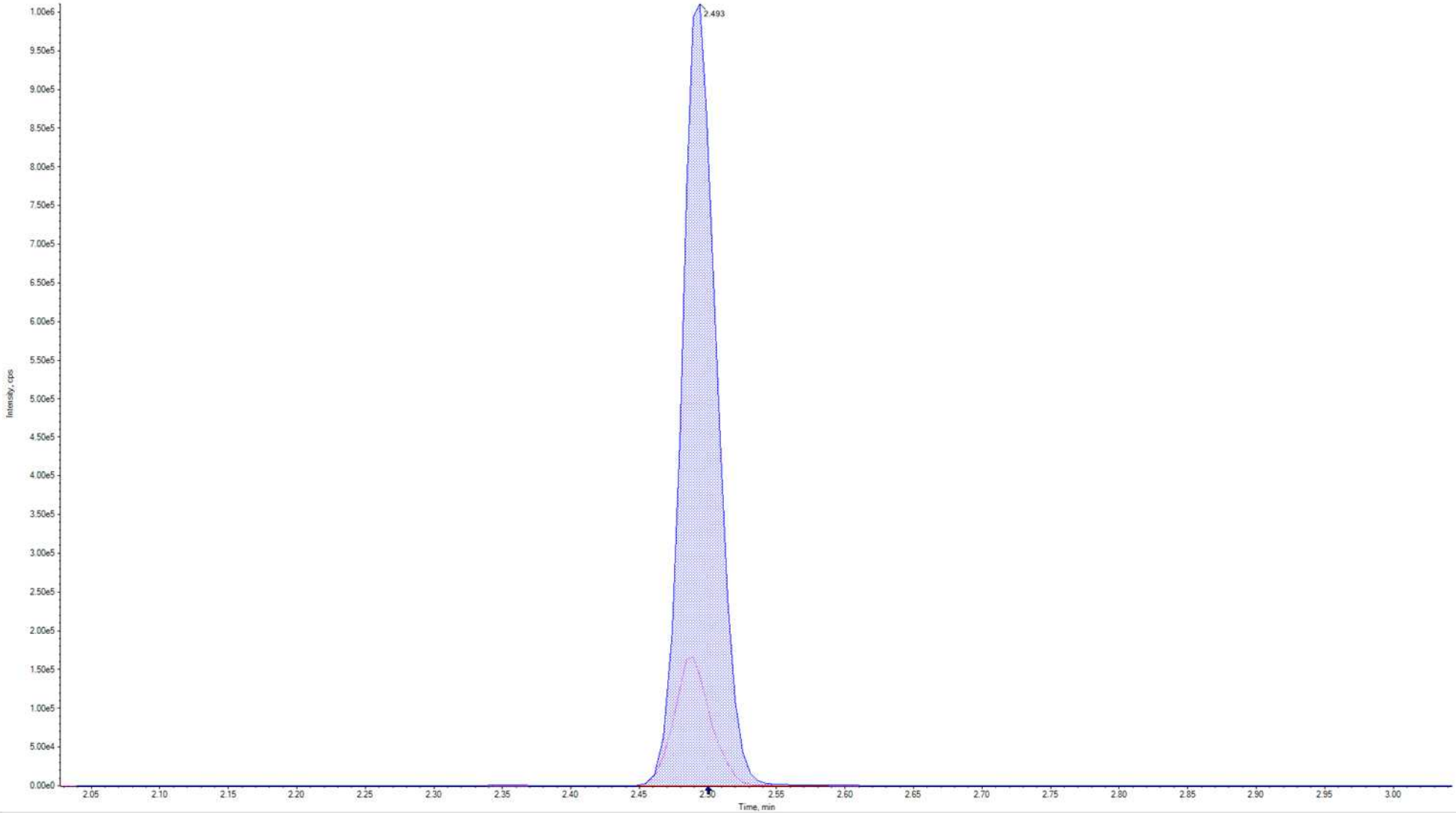
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHpA
Sample: IA1633STD-25 S/N:24340.5 Points Across peak:31



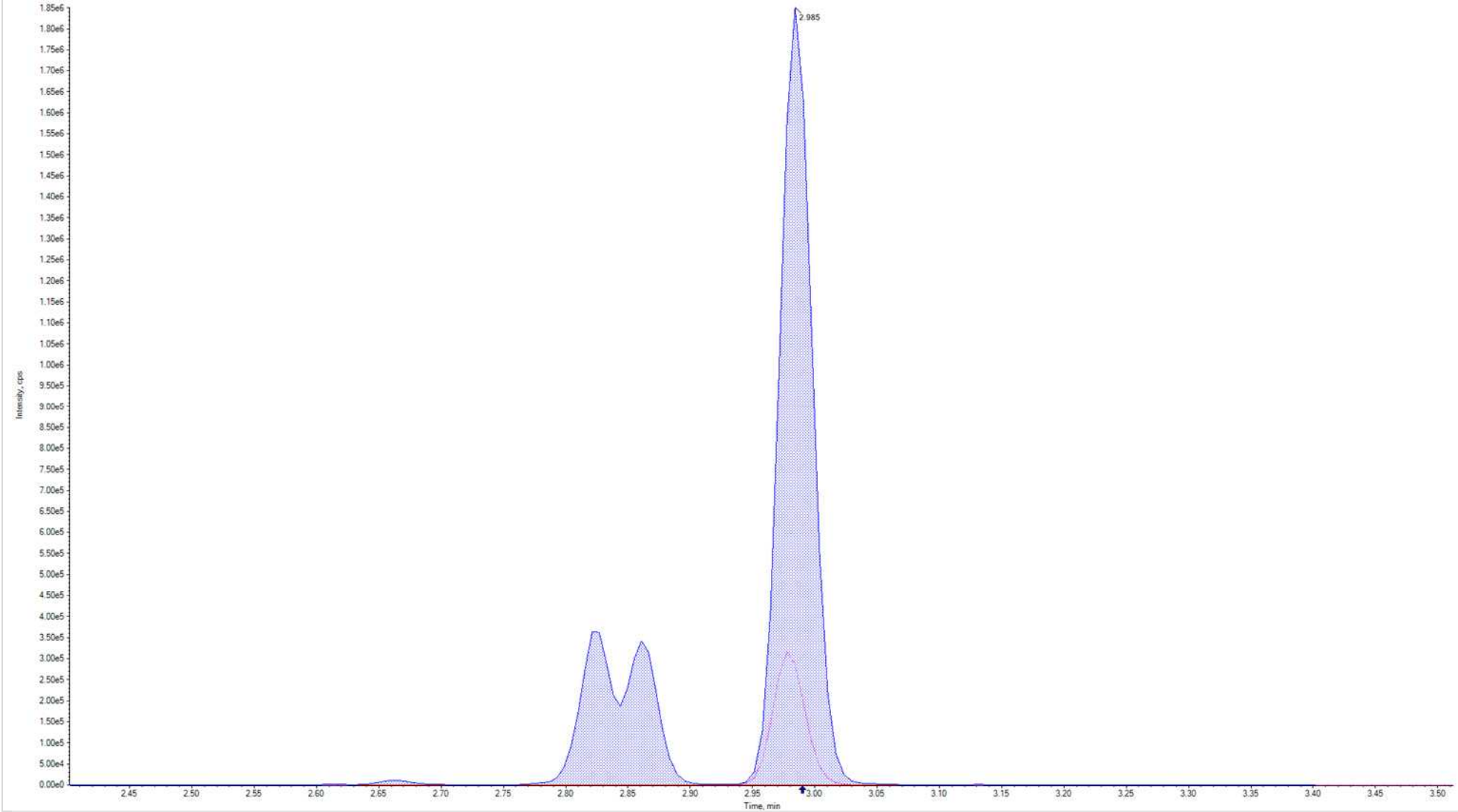
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHpA_2
Sample: IA1633STD-25 S/N:20261.0 Points Across peak:28



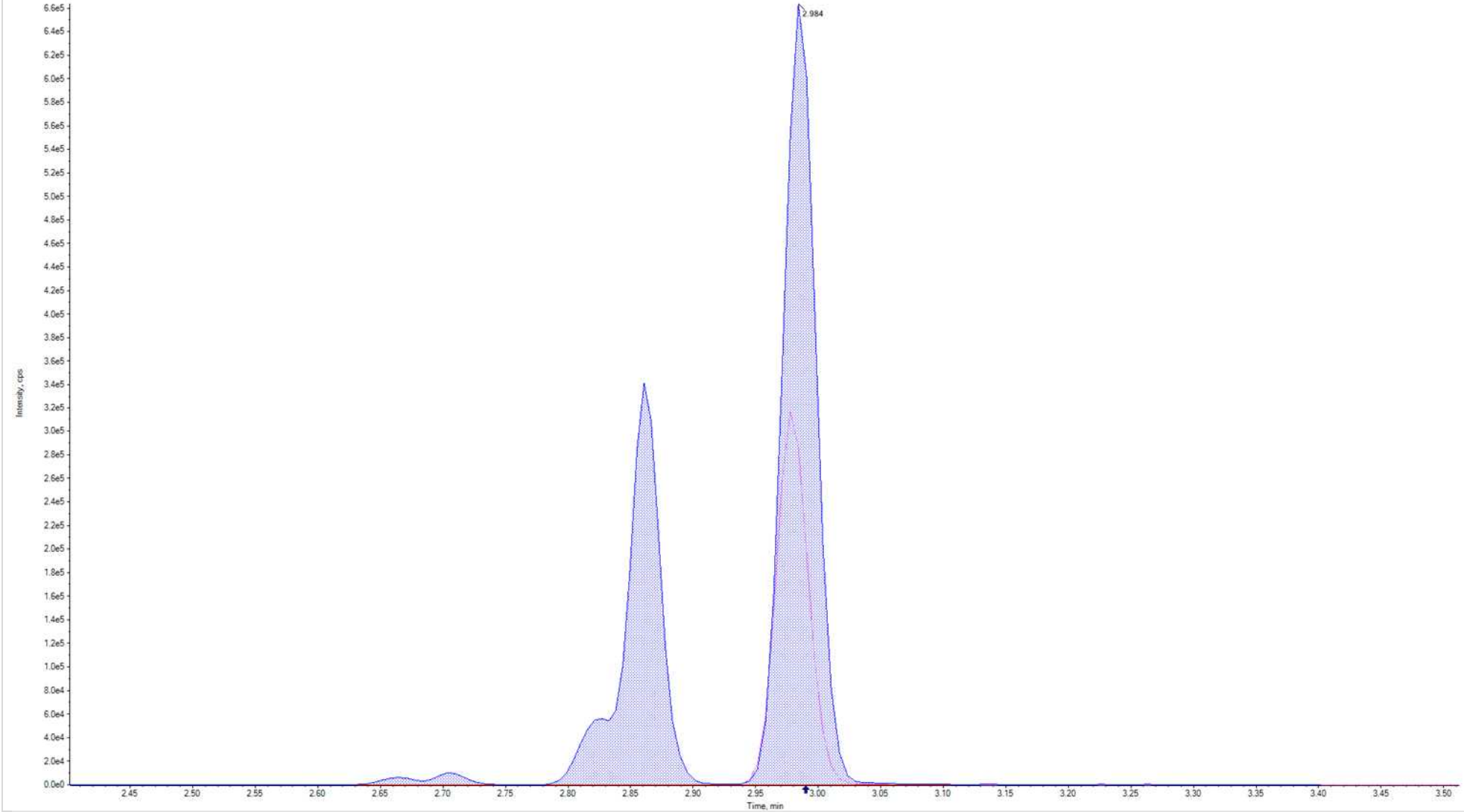
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOA
Sample: IA1633STD-25 S/N:838.7 Points Across peak:74



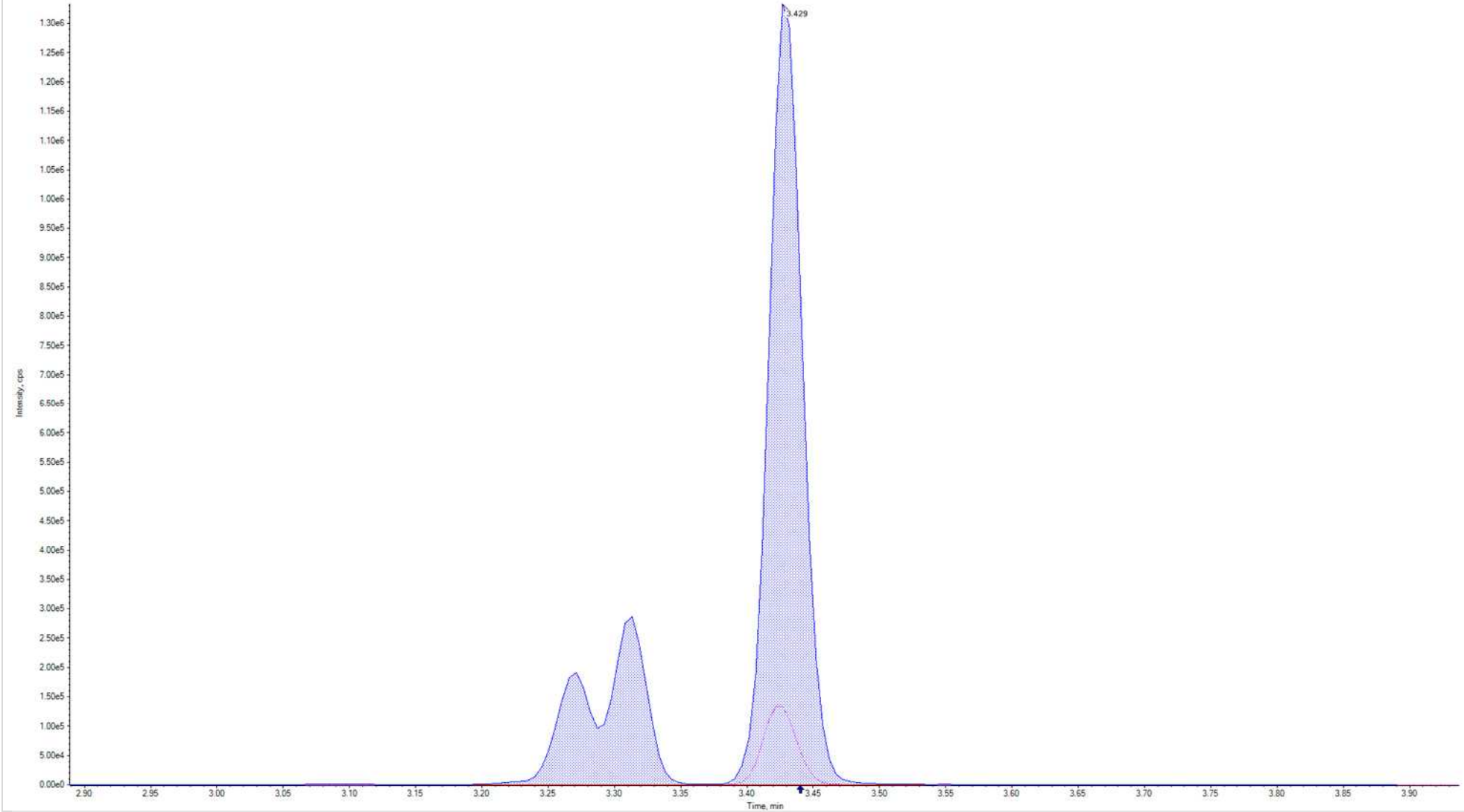
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOA_2
Sample: IA1633STD-25 S/N:538.0 Points Across peak:82



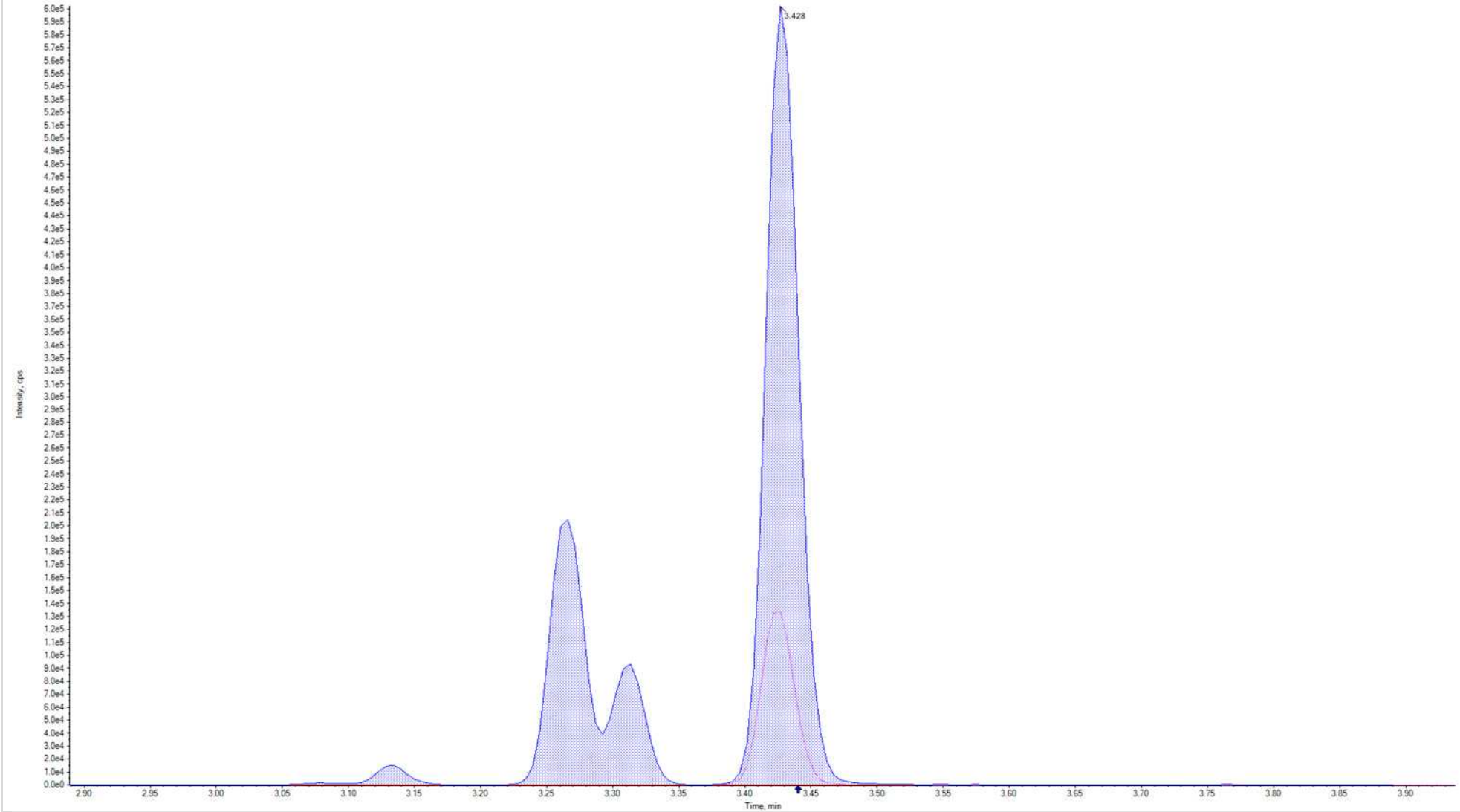
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNA
Sample: IA1633STD-25 S/N:802.2 Points Across peak:68



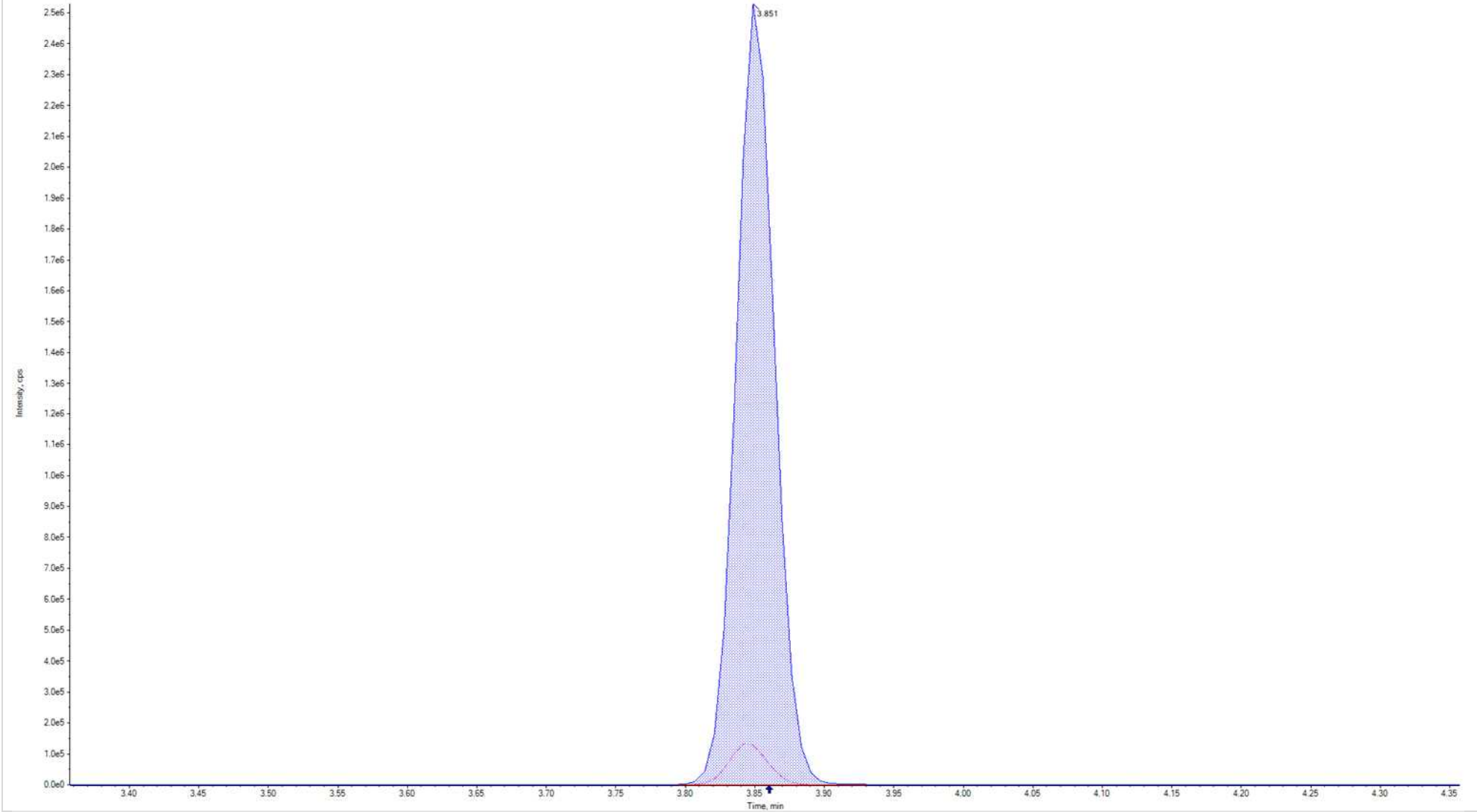
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNA_2
Sample: IA1633STD-25 S/N:481.1 Points Across peak:91



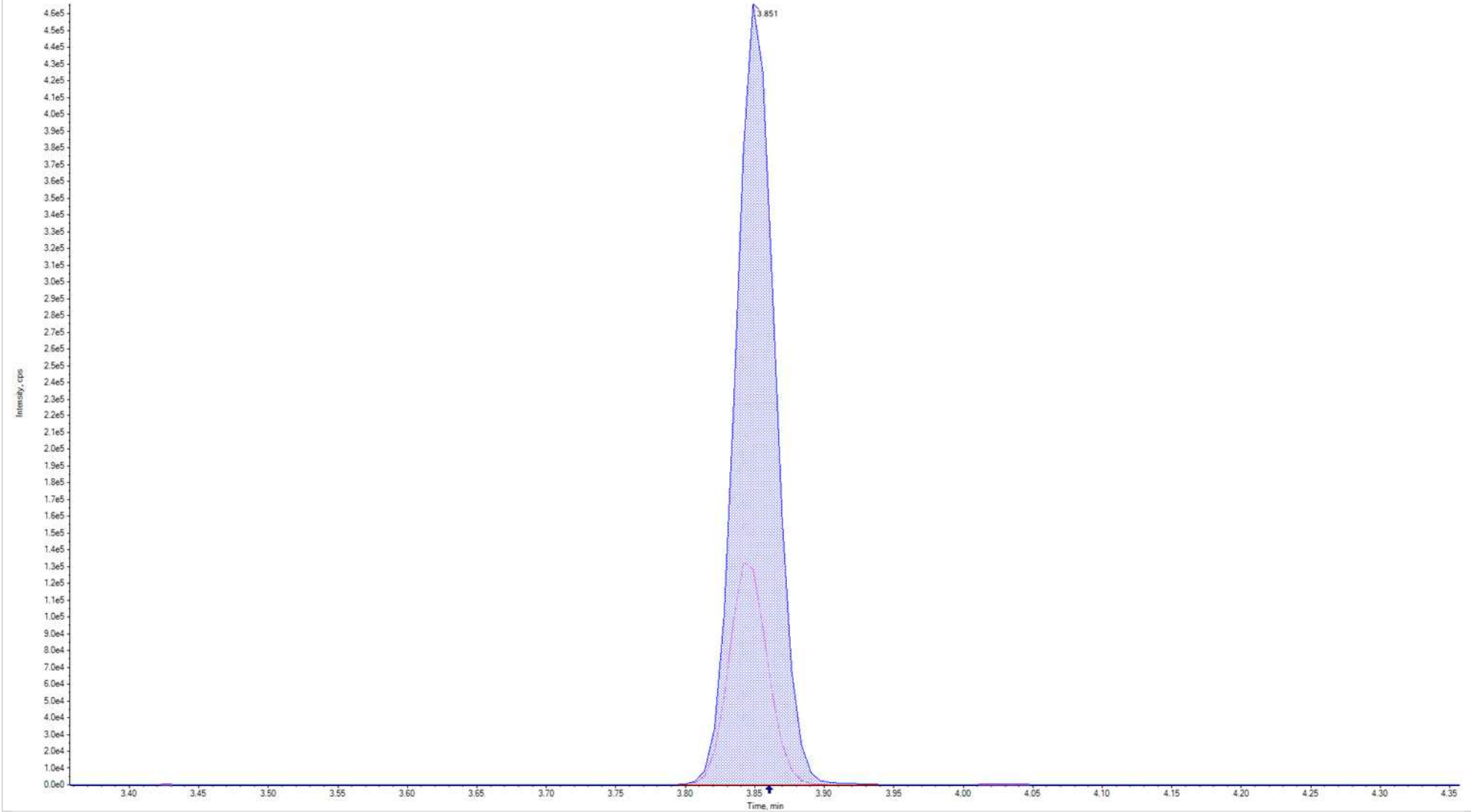
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDA
Sample: IA1633STD-25 S/N:50711.8 Points Across peak:34



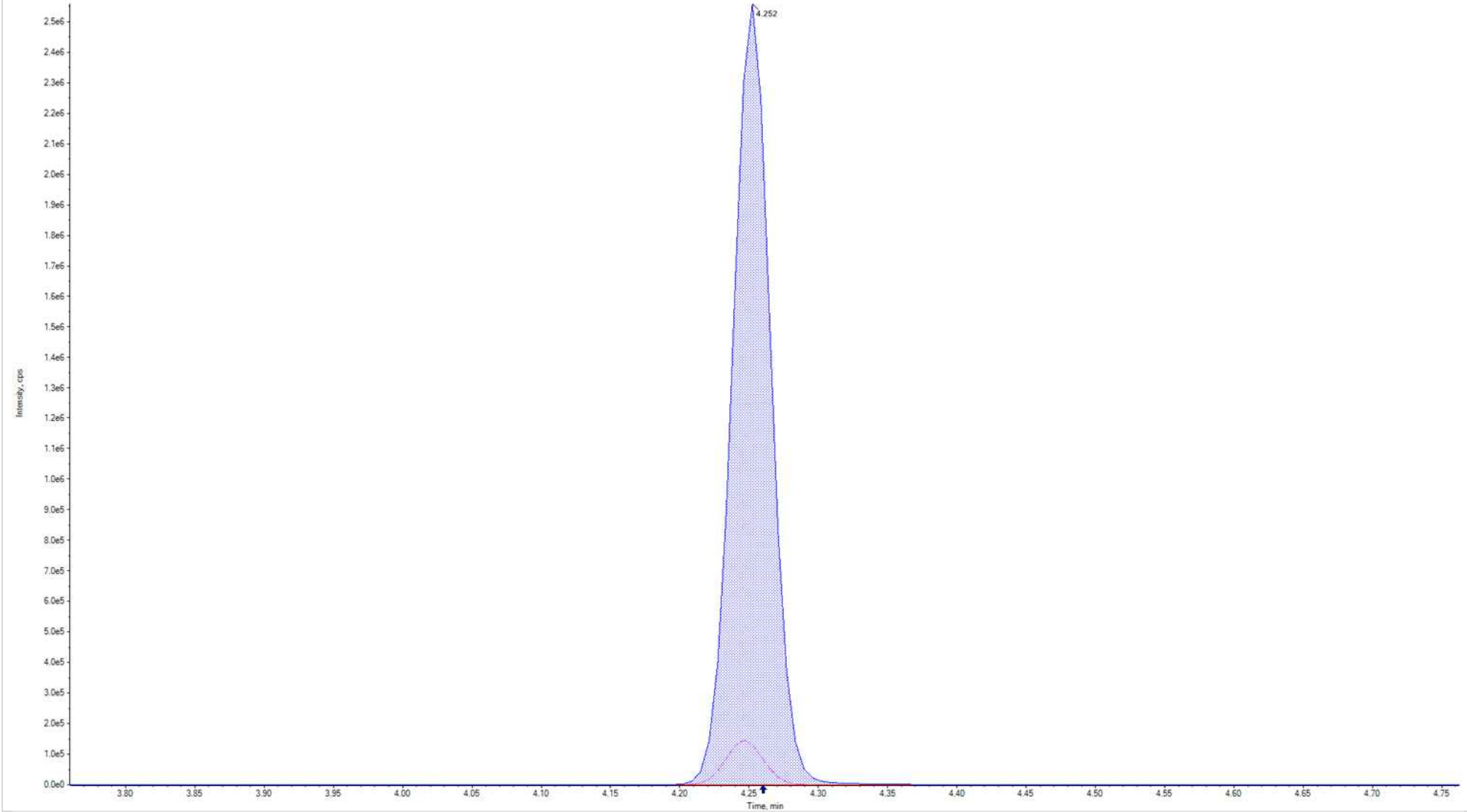
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDA_2
Sample: IA1633STD-25 S/N:5983.6 Points Across peak:29



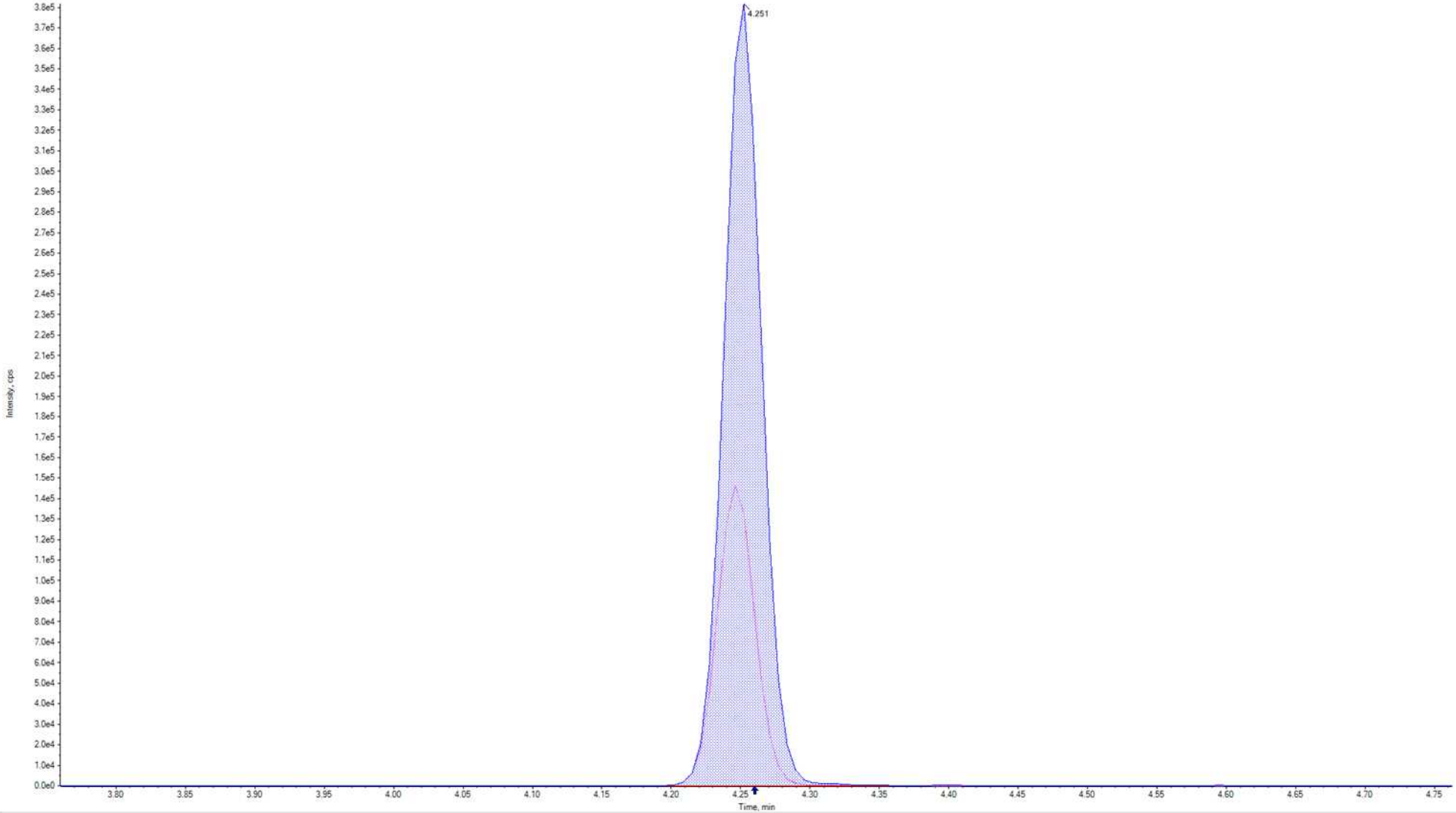
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFUnA
Sample: IA1633STD-25 S/N:57705.4 Points Across peak:38



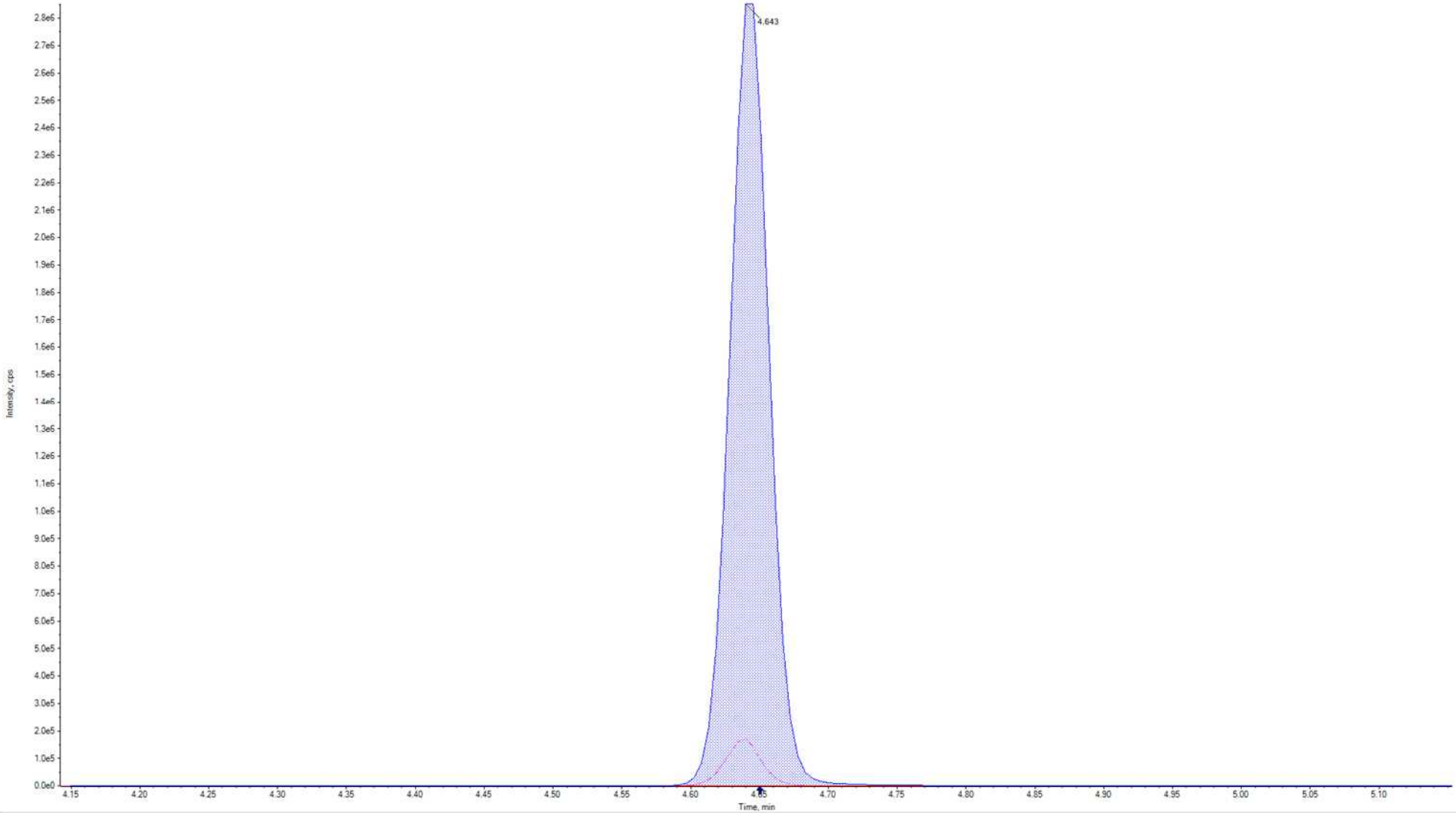
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFUnA_2
Sample: IA1633STD-25 S/N:5035.1 Points Across peak:33



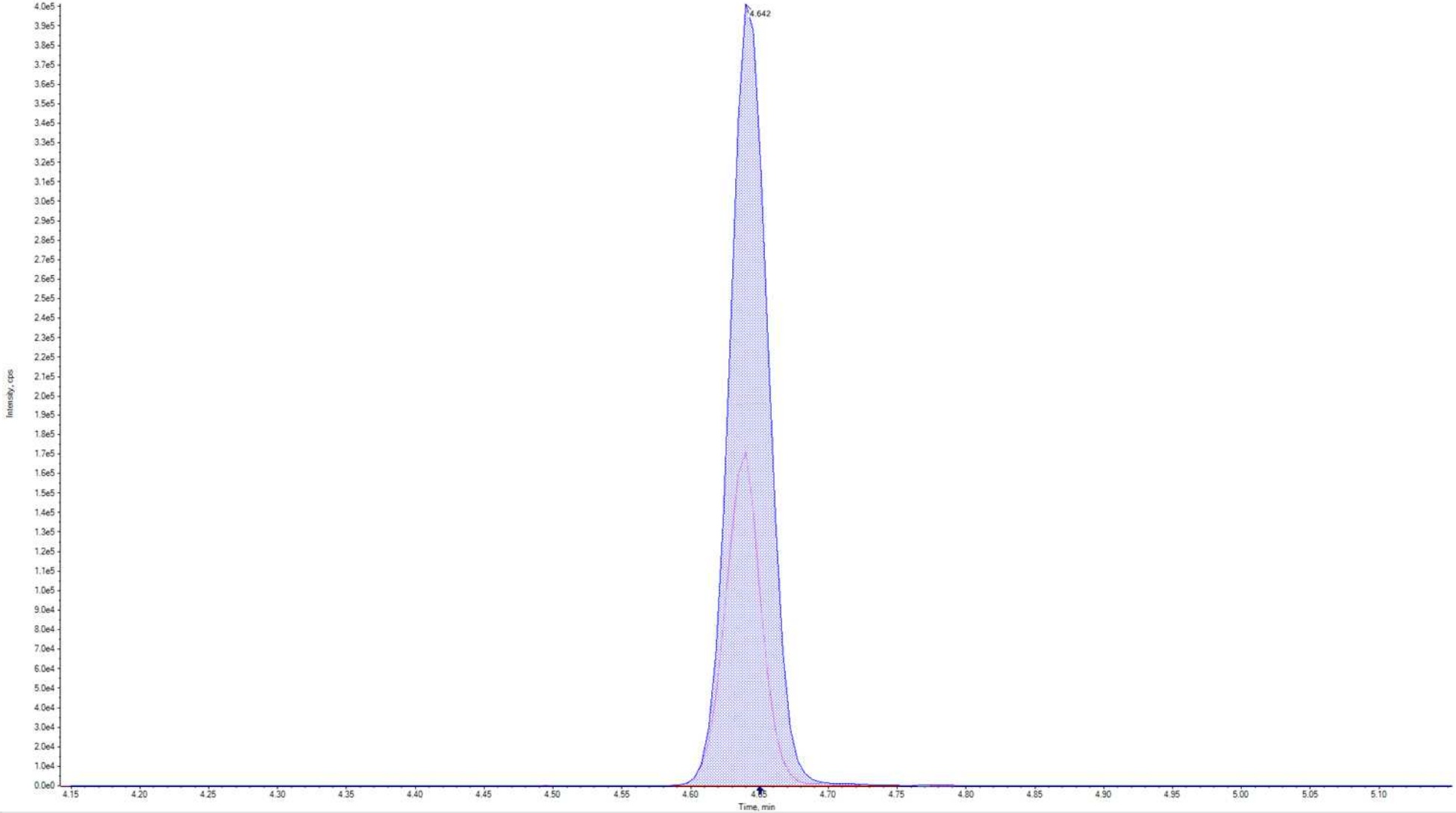
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDoA
Sample: IA1633STD-25 S/N:25359.5 Points Across peak:38



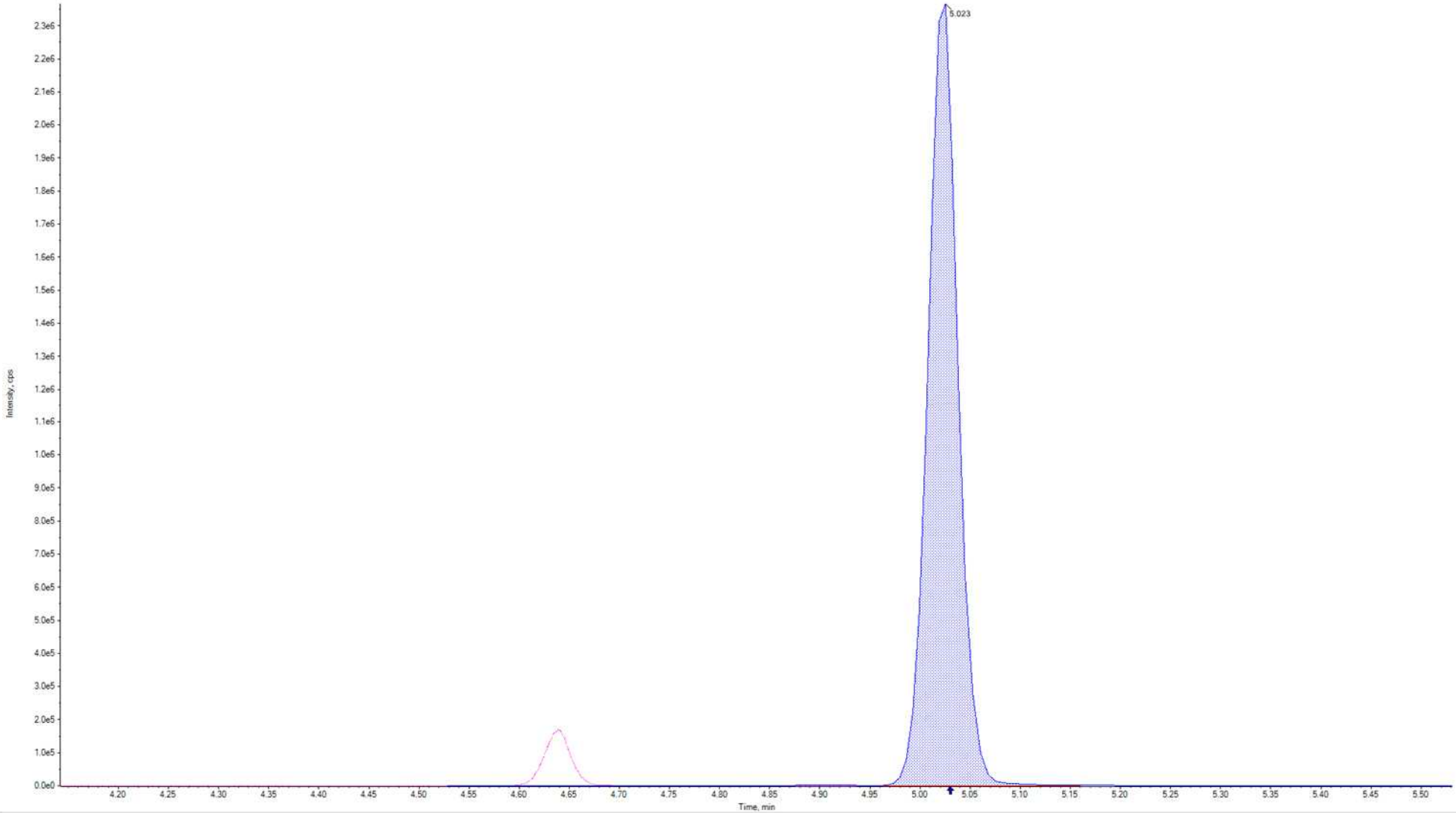
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDoA_2
Sample: IA1633STD-25 S/N:5535.9 Points Across peak:37



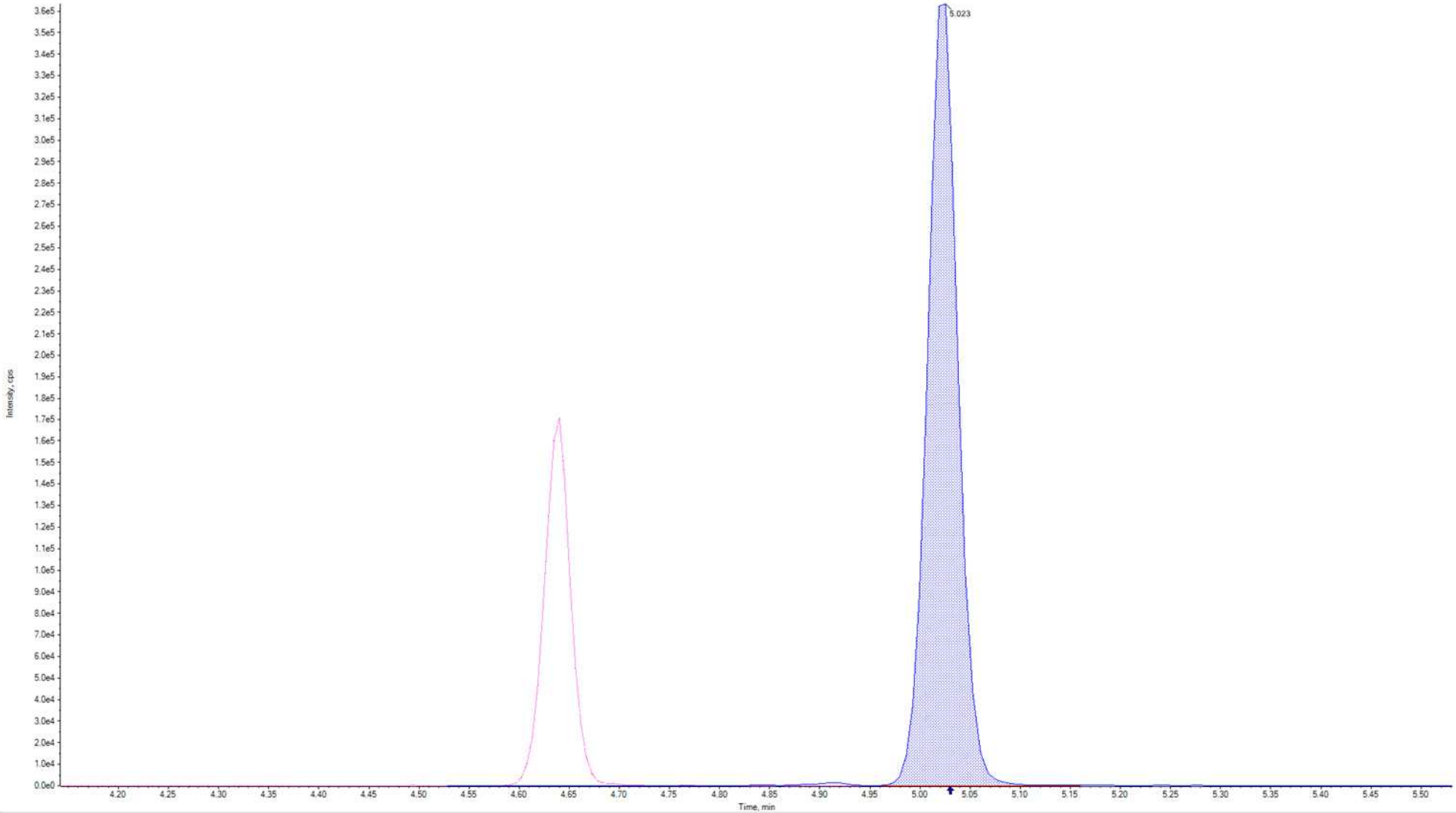
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFTrDA
Sample: IA1633STD-25 S/N:26307.6 Points Across peak:30



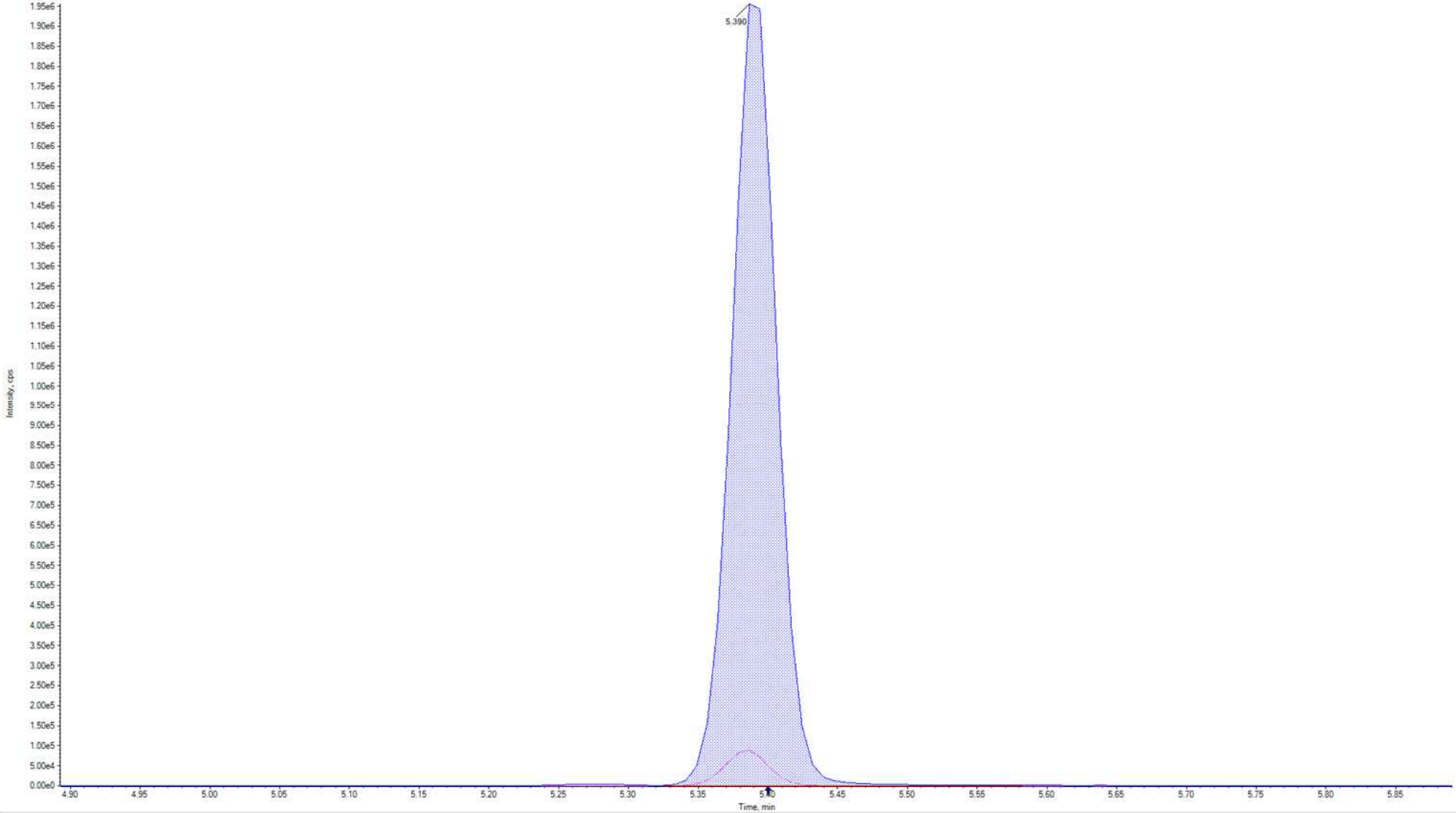
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFTrDA_2
Sample: IA1633STD-25 S/N:3491.6 Points Across peak:30



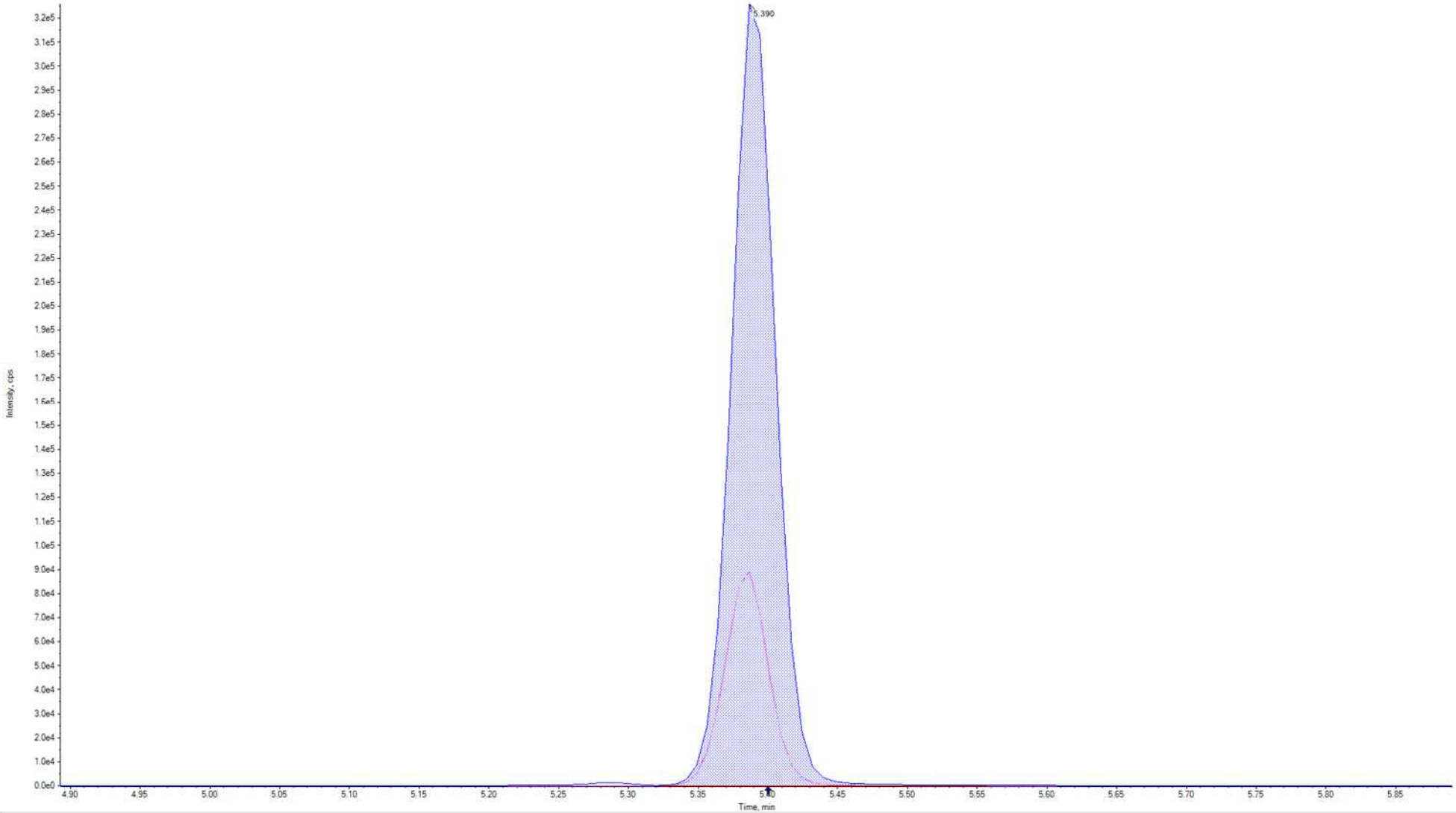
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFTeDA
Sample: IA1633STD-25 S/N:13494.9 Points Across peak:33



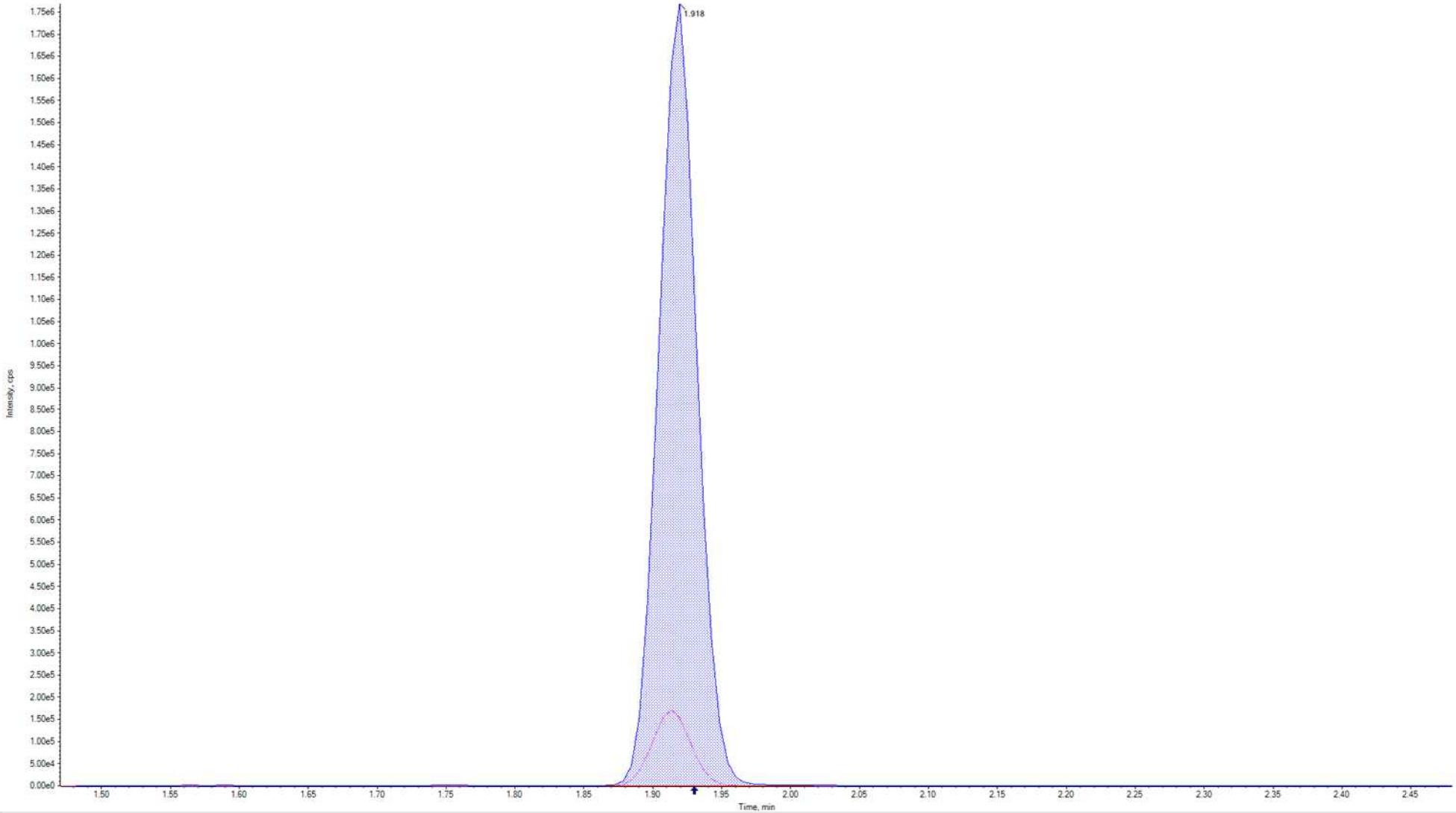
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFTeDA_2
Sample: IA1633STD-25 S/N:10363.9 Points Across peak:30



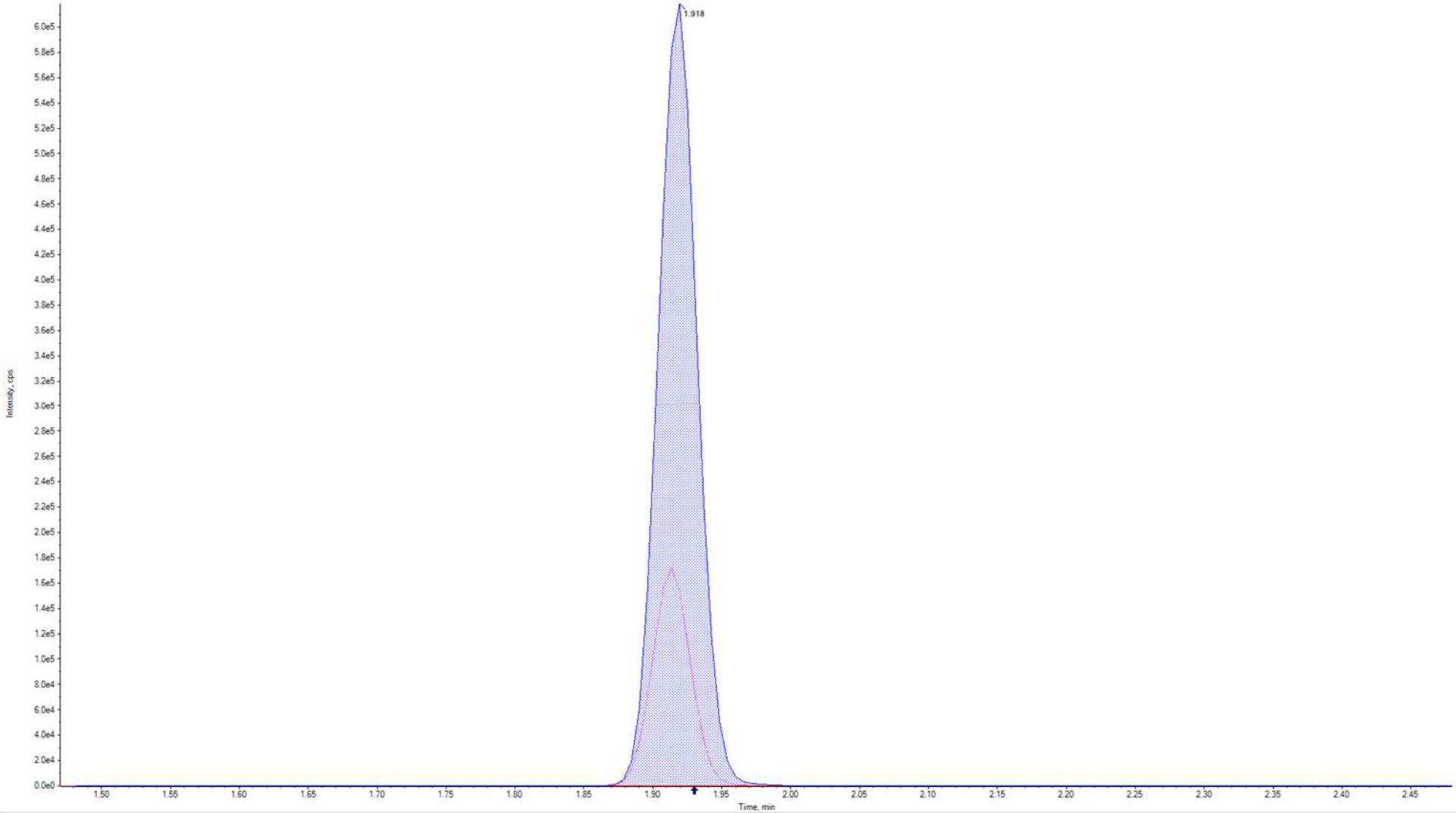
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

PFBS
Sample: IA1633STD-25 S/N:6765.3 Points Across peak:29



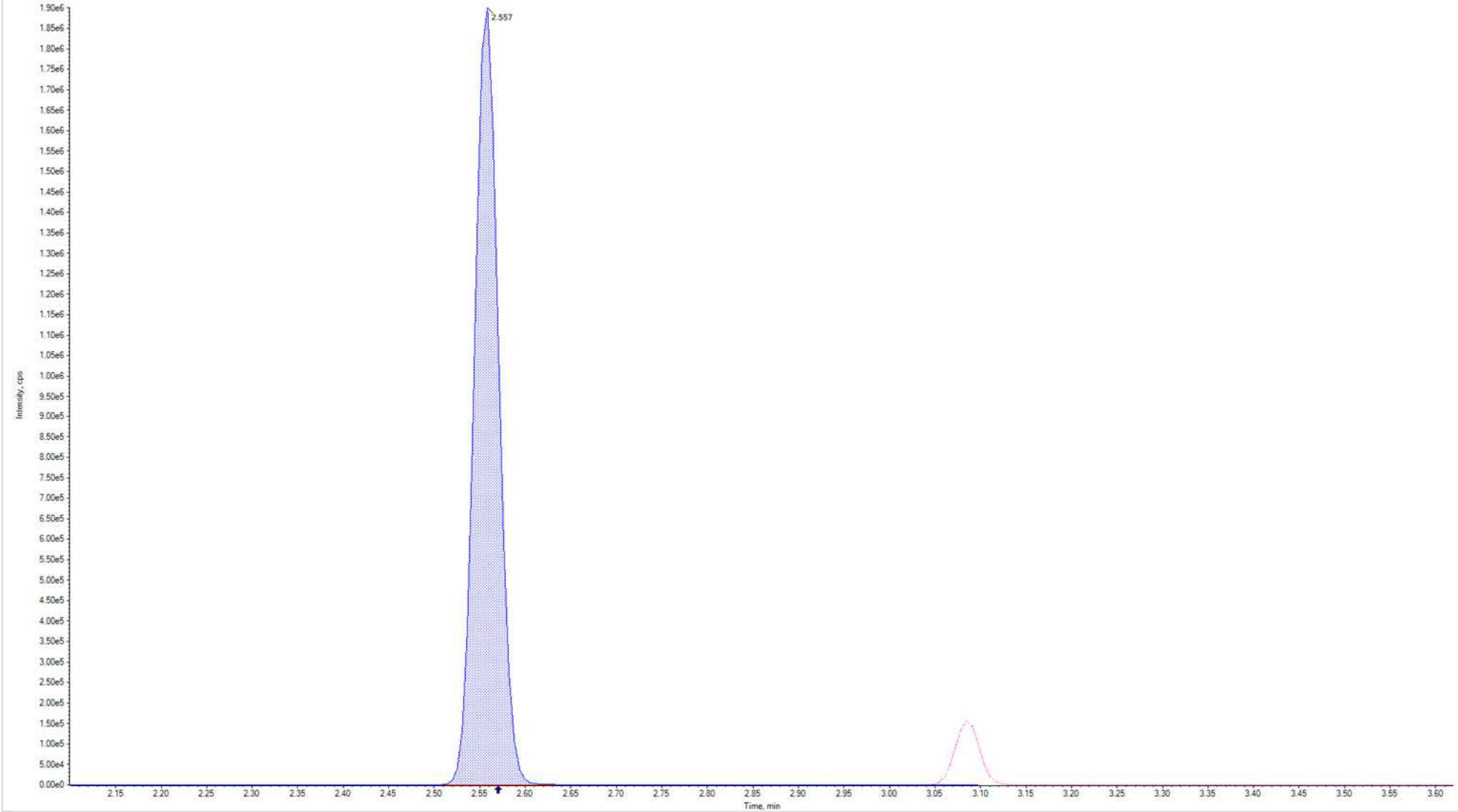
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFBS_2
Sample: IA1633STD-25 S/N:15497.8 Points Across peak:30



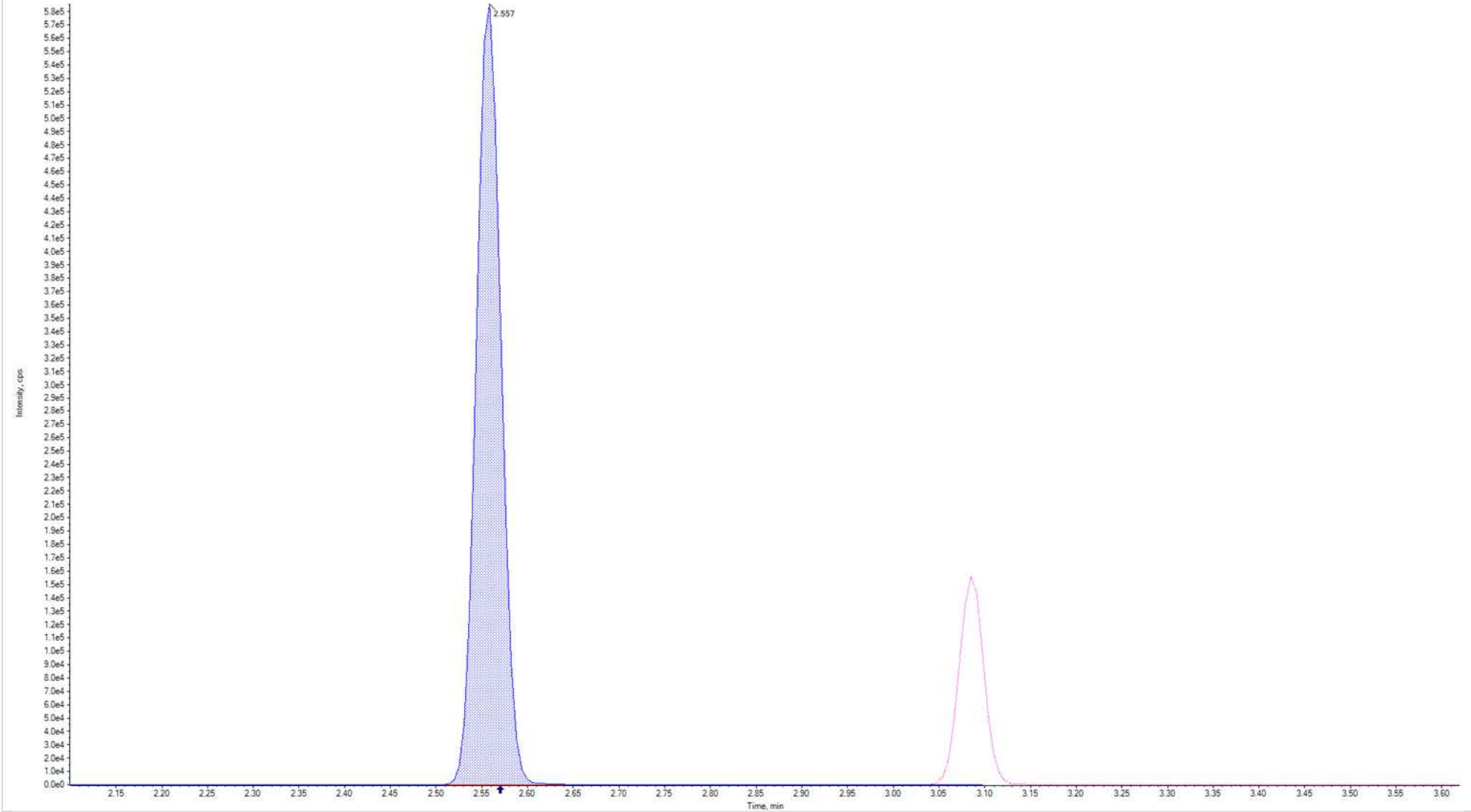
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFPeS
Sample: IA1633STD-25 S/N:7261.1 Points Across peak:31



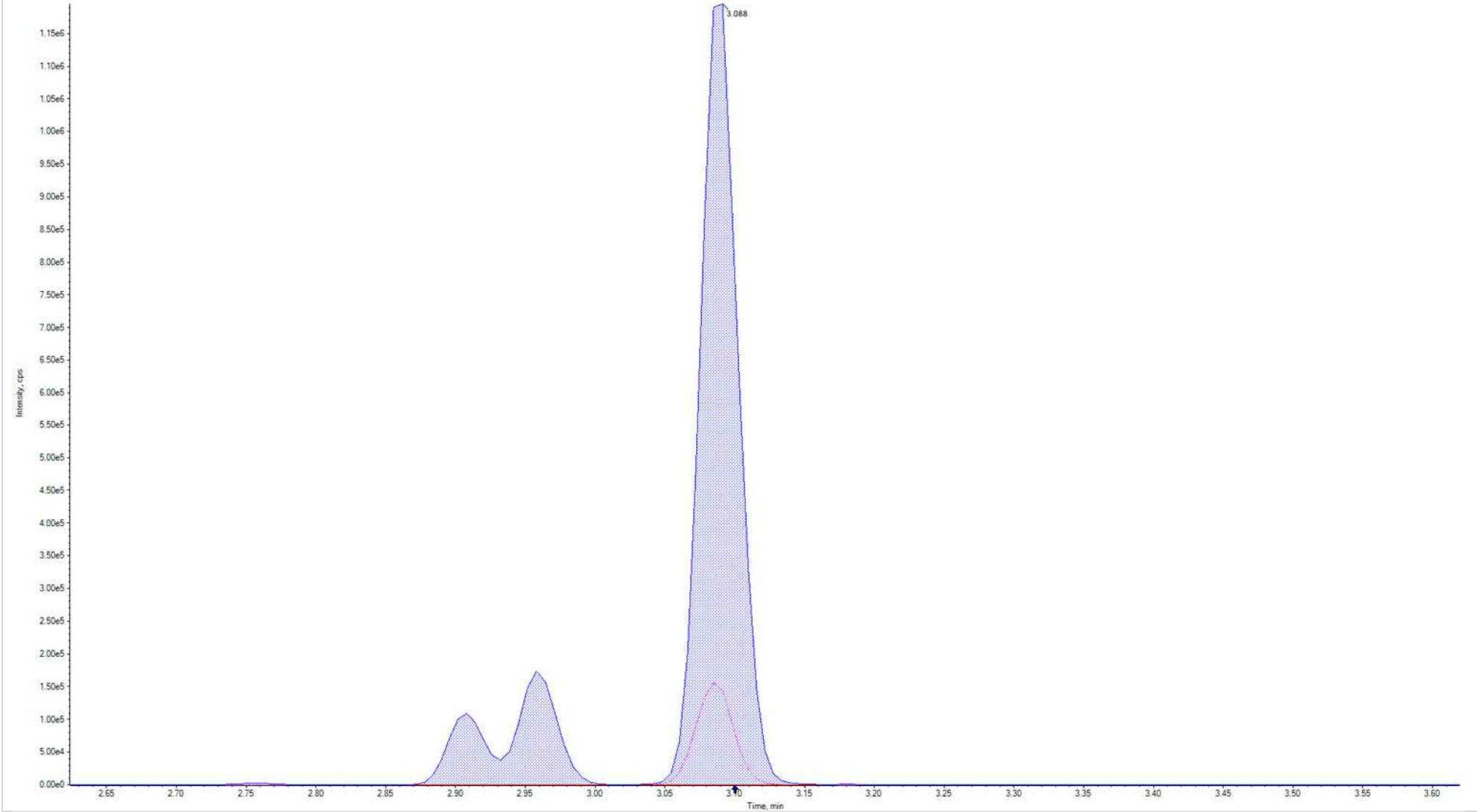
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFPeS_2
Sample: IA1633STD-25 S/N:5313.0 Points Across peak:30



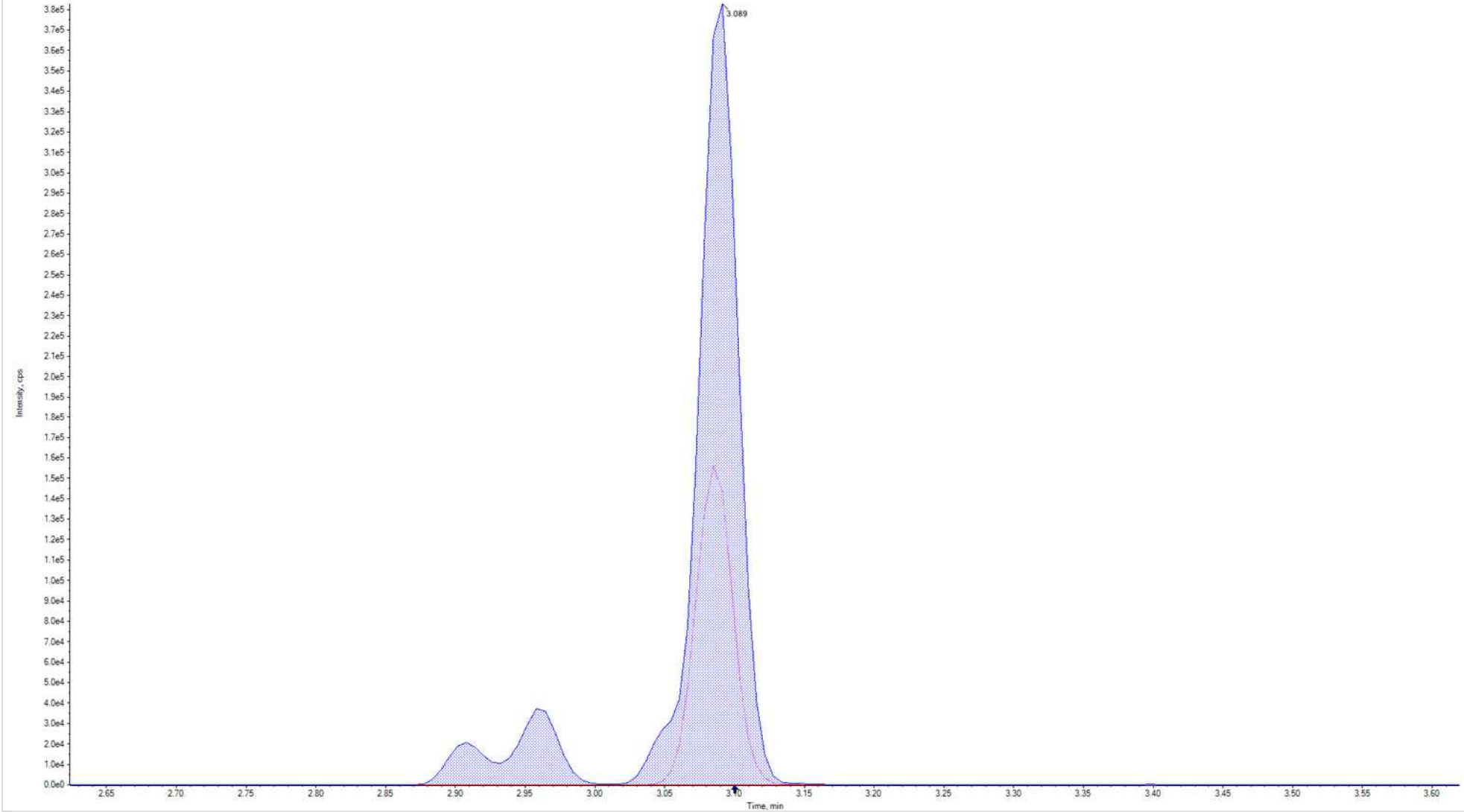
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHxS
Sample: IA1633STD-25 S/N:1171.7 Points Across peak:51



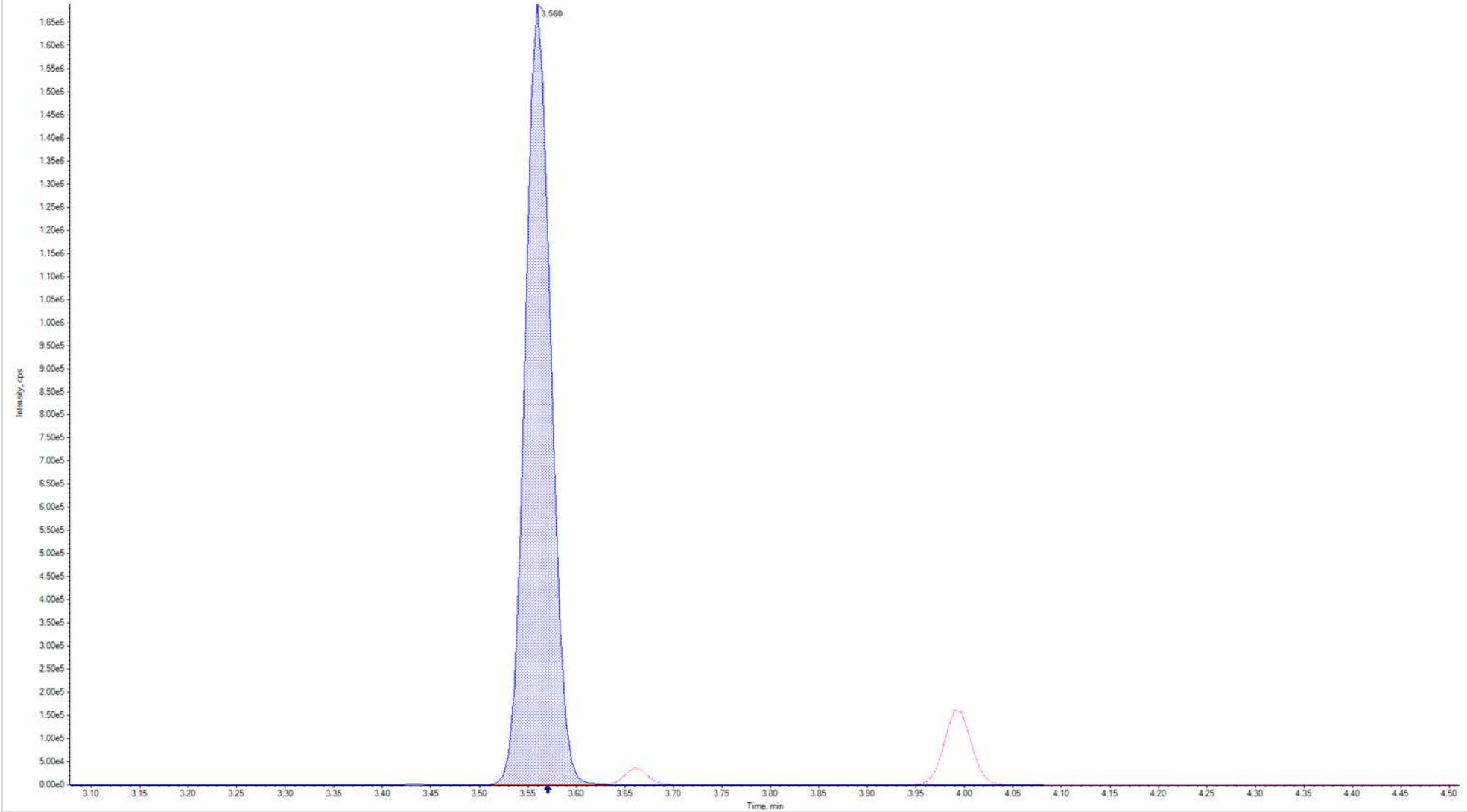
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHxS_2
Sample: IA1633STD-25 S/N:1865.7 Points Across peak:53



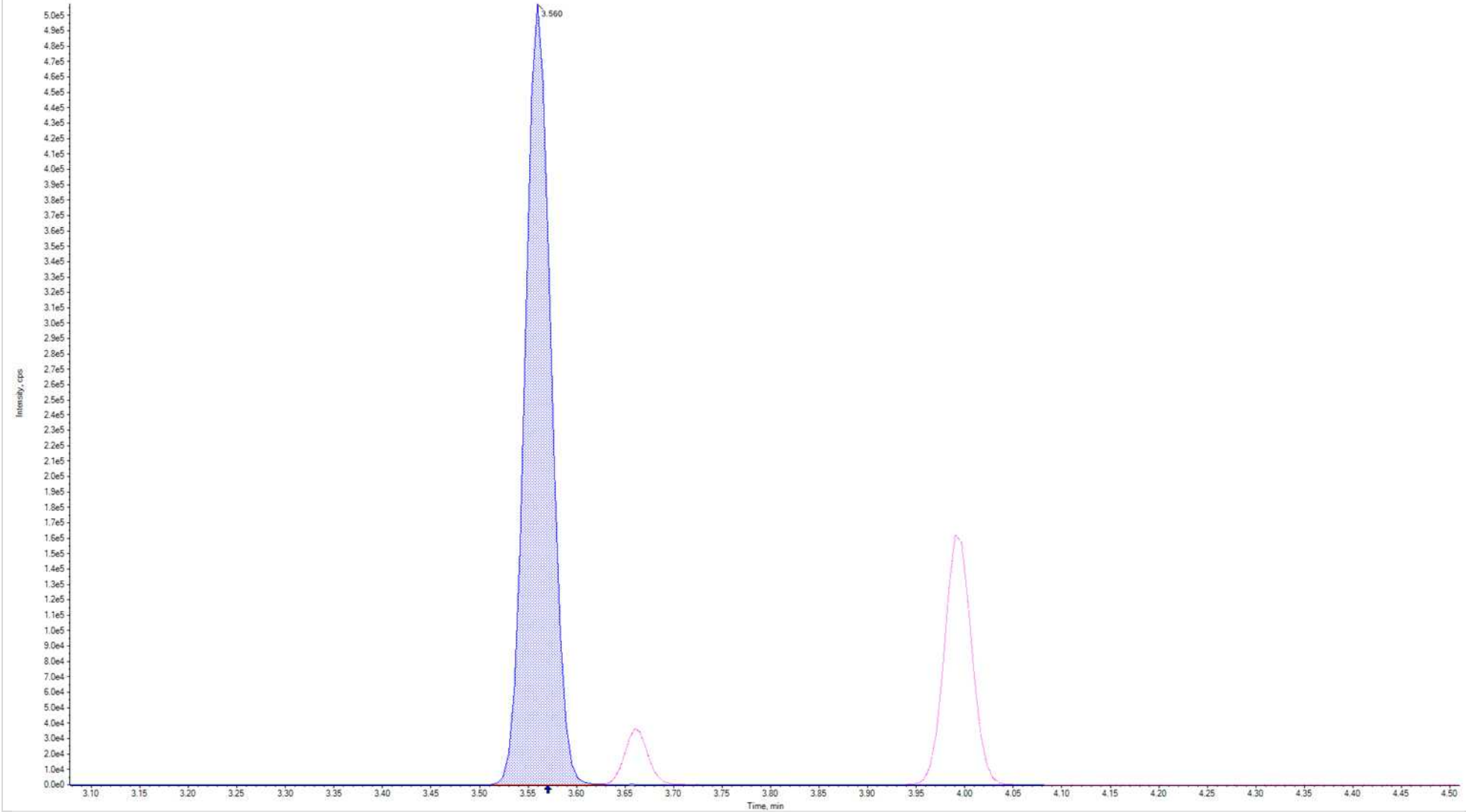
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHpS
Sample: IA1633STD-25 S/N:7088.8 Points Across peak:32



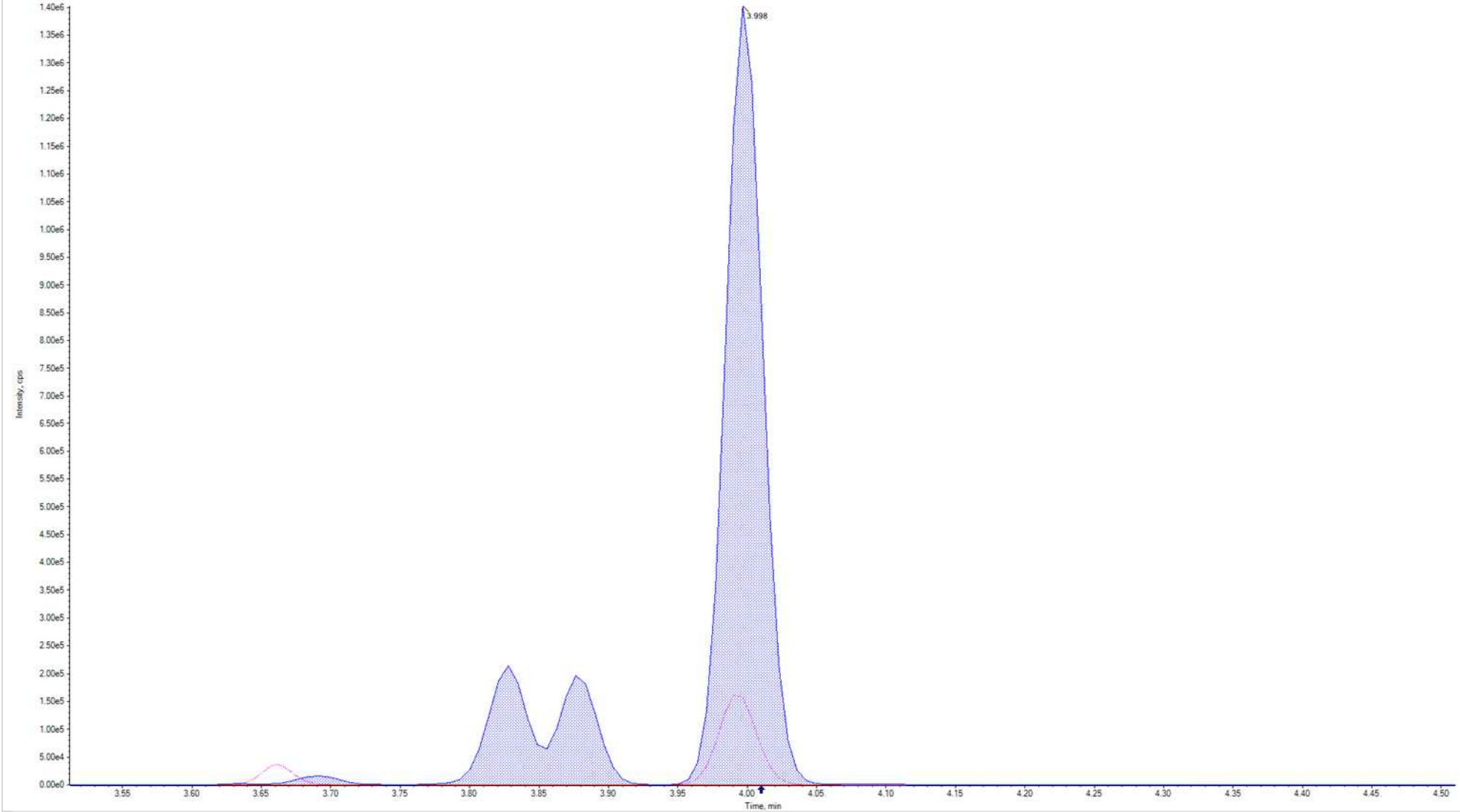
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHpS_2
Sample: IA1633STD-25 S/N:6810.8 Points Across peak:27



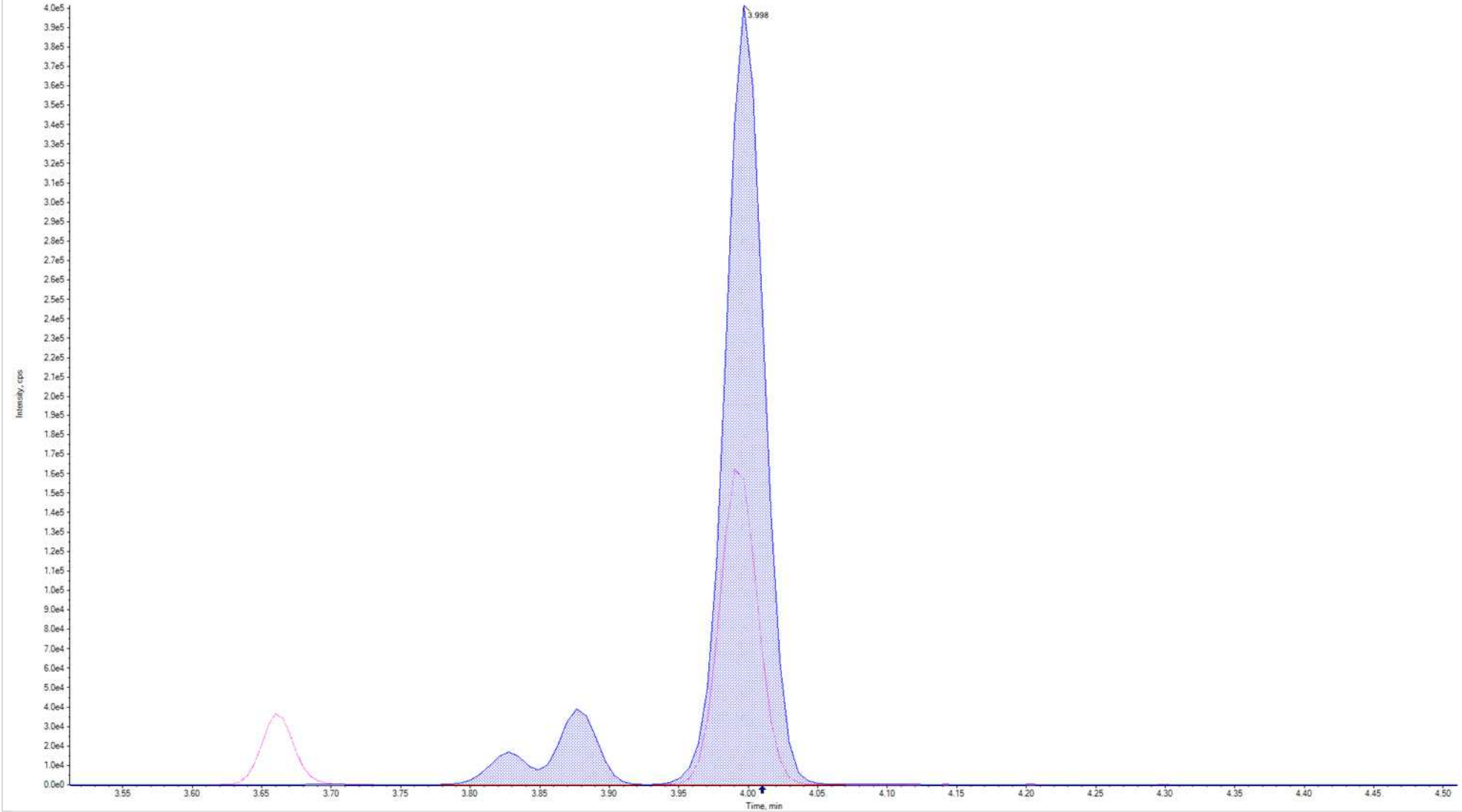
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOS
Sample: IA1633STD-25 S/N:629.7 Points Across peak:74



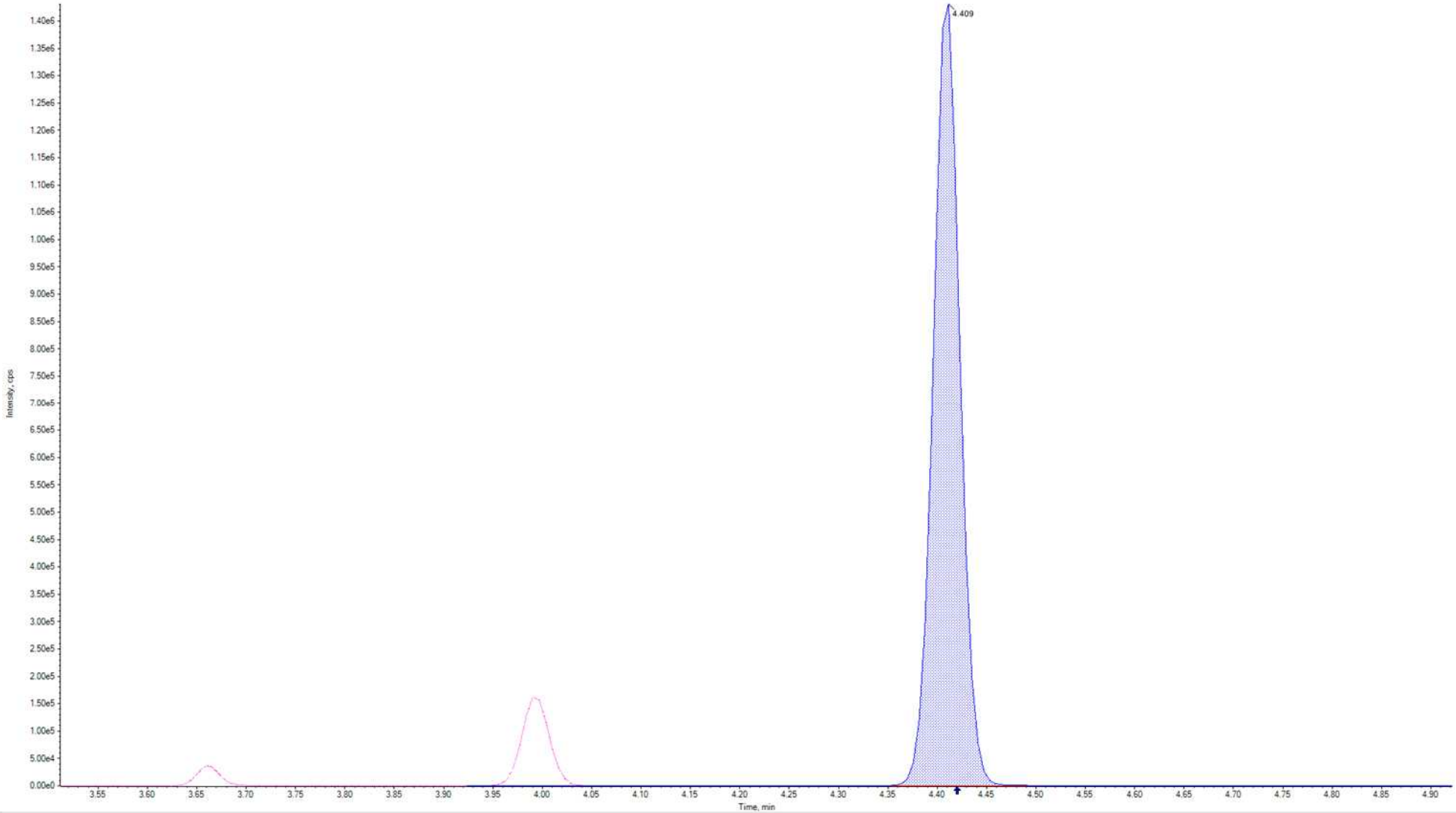
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOS_2
Sample: IA1633STD-25 S/N:1161.0 Points Across peak:47



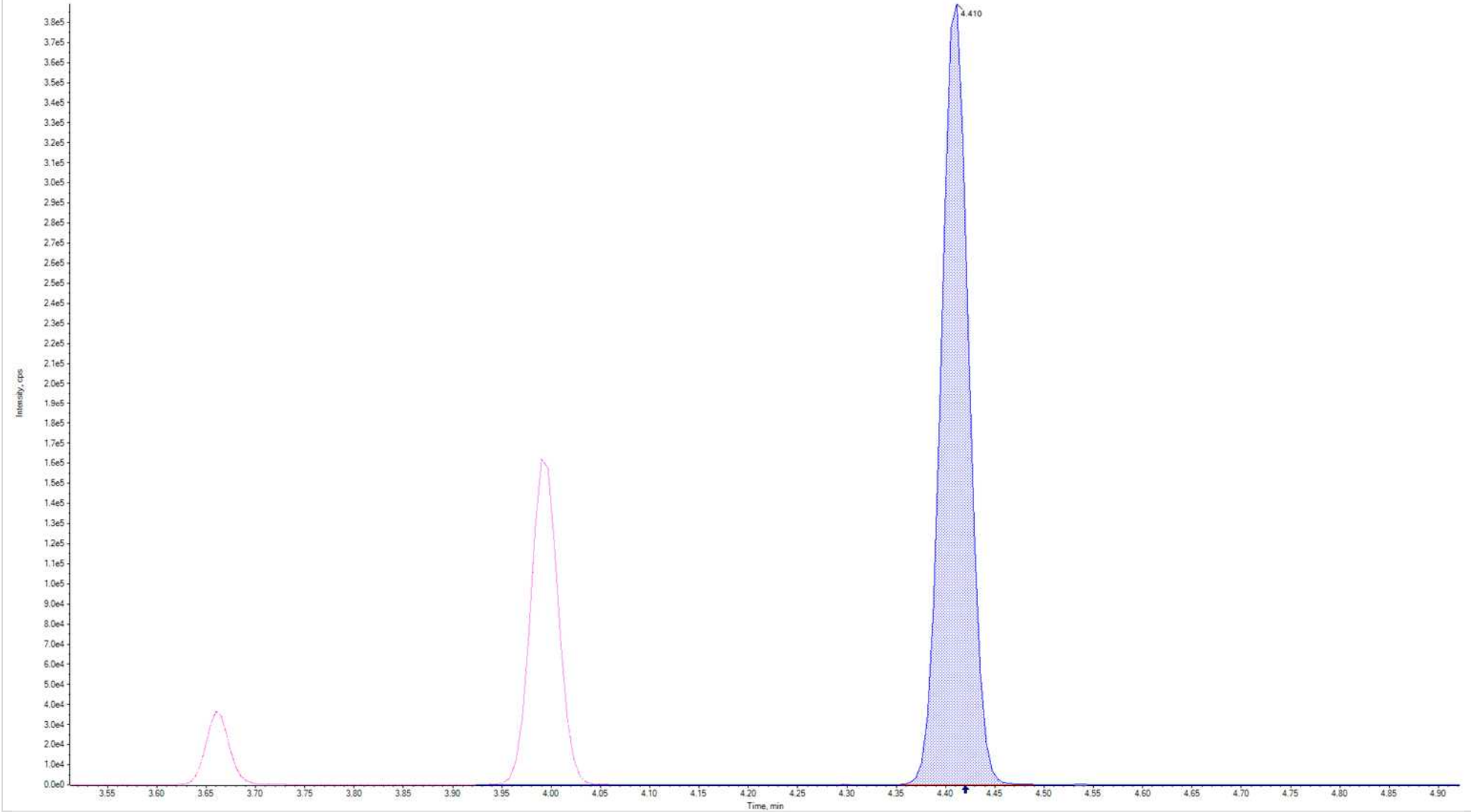
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS
Sample: IA1633STD-25 S/N:6699.8 Points Across peak:29



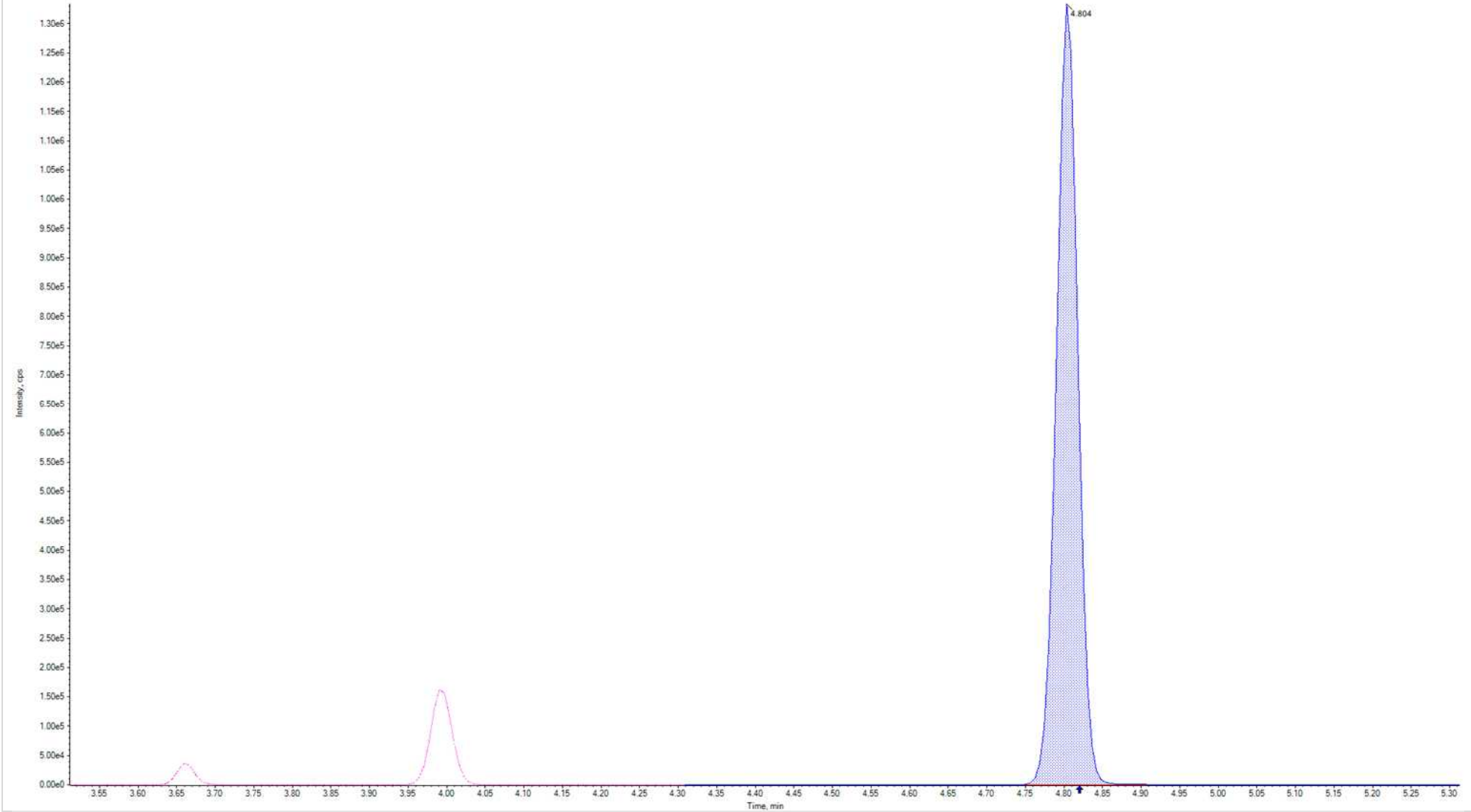
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS_2
Sample: IA1633STD-25 S/N:6072.5 Points Across peak:31



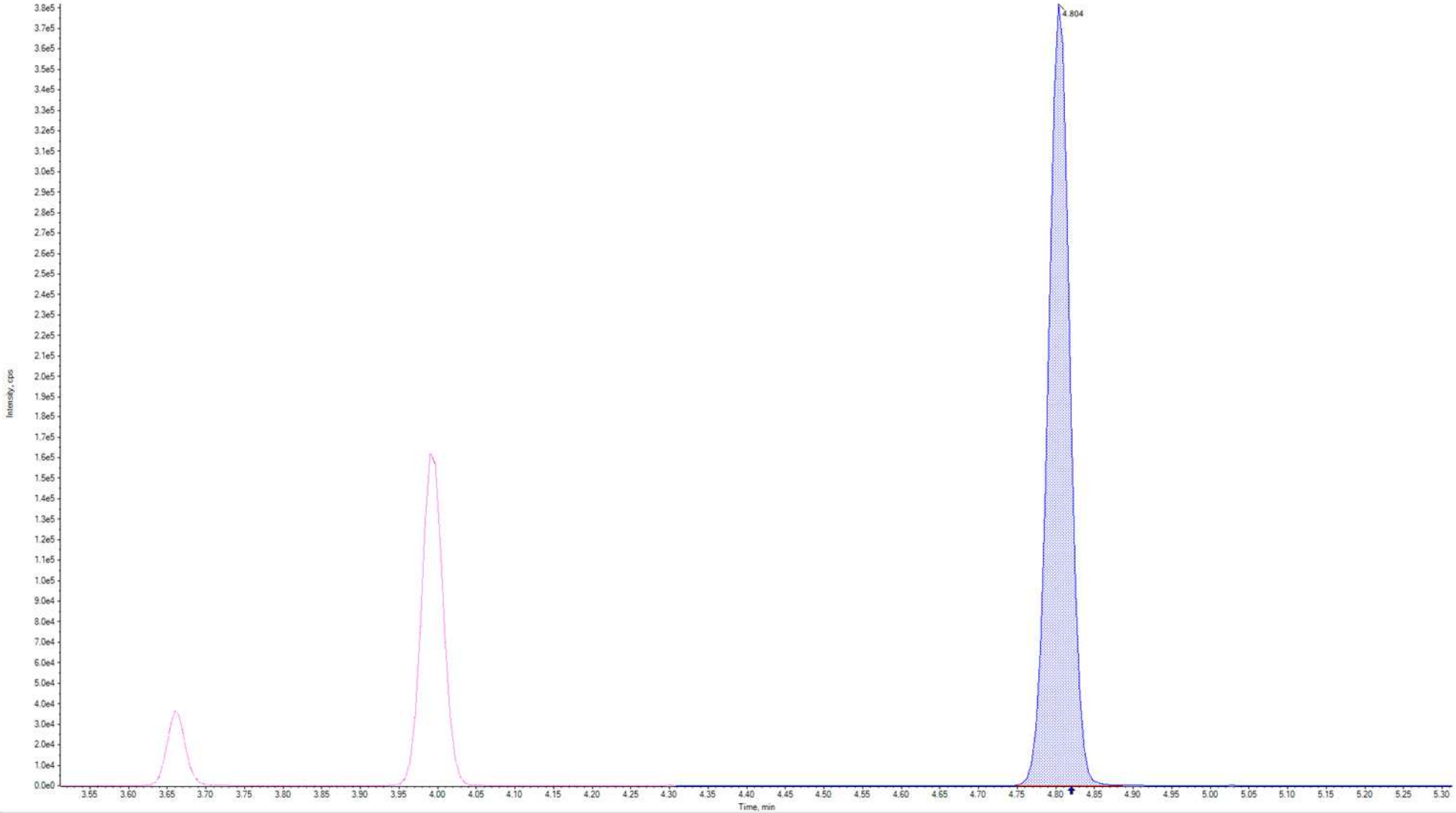
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDS
Sample: IA1633STD-25 S/N:46800.8 Points Across peak:35



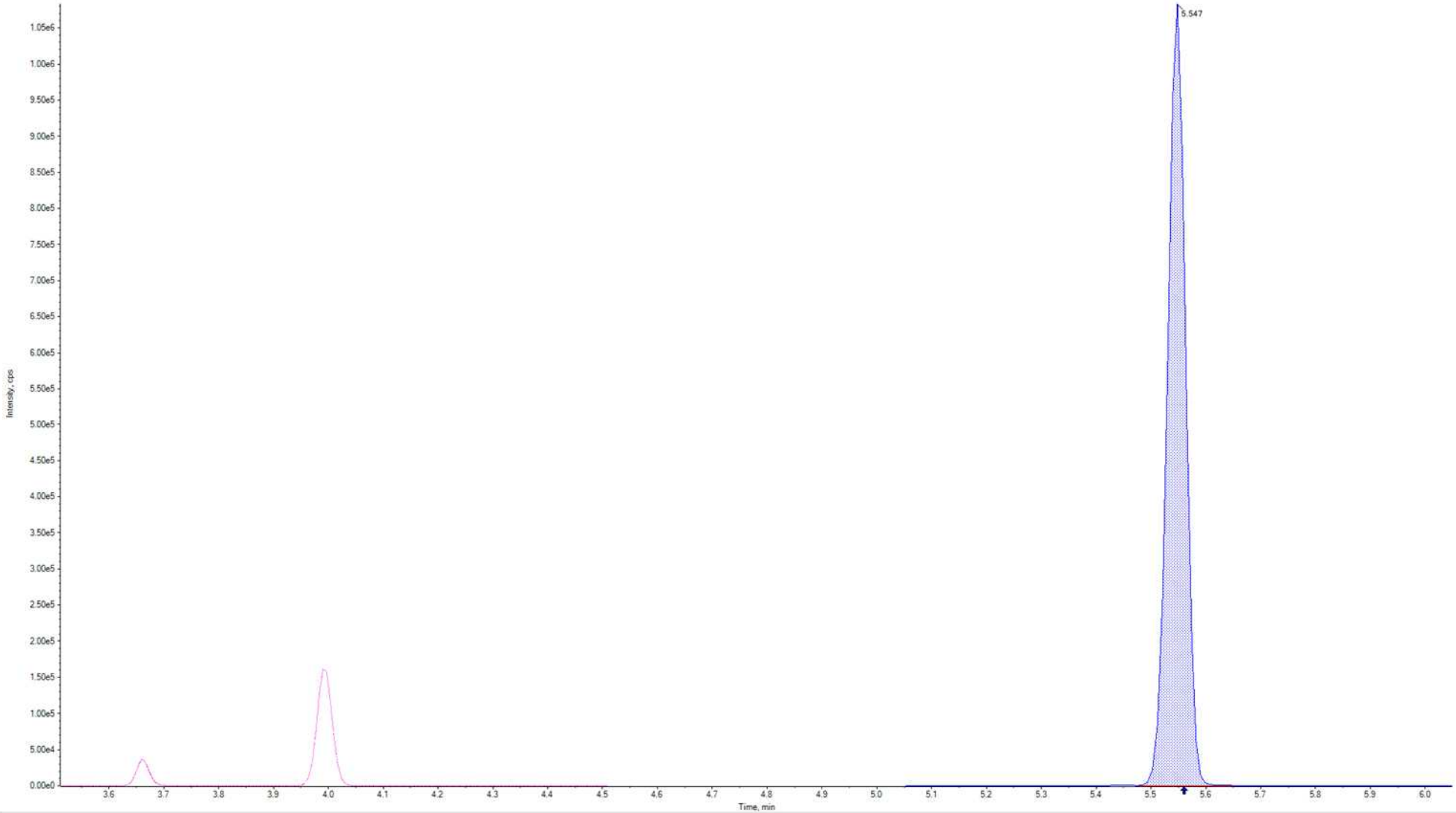
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFDS_2
Sample: IA1633STD-25 S/N:7954.0 Points Across peak:29



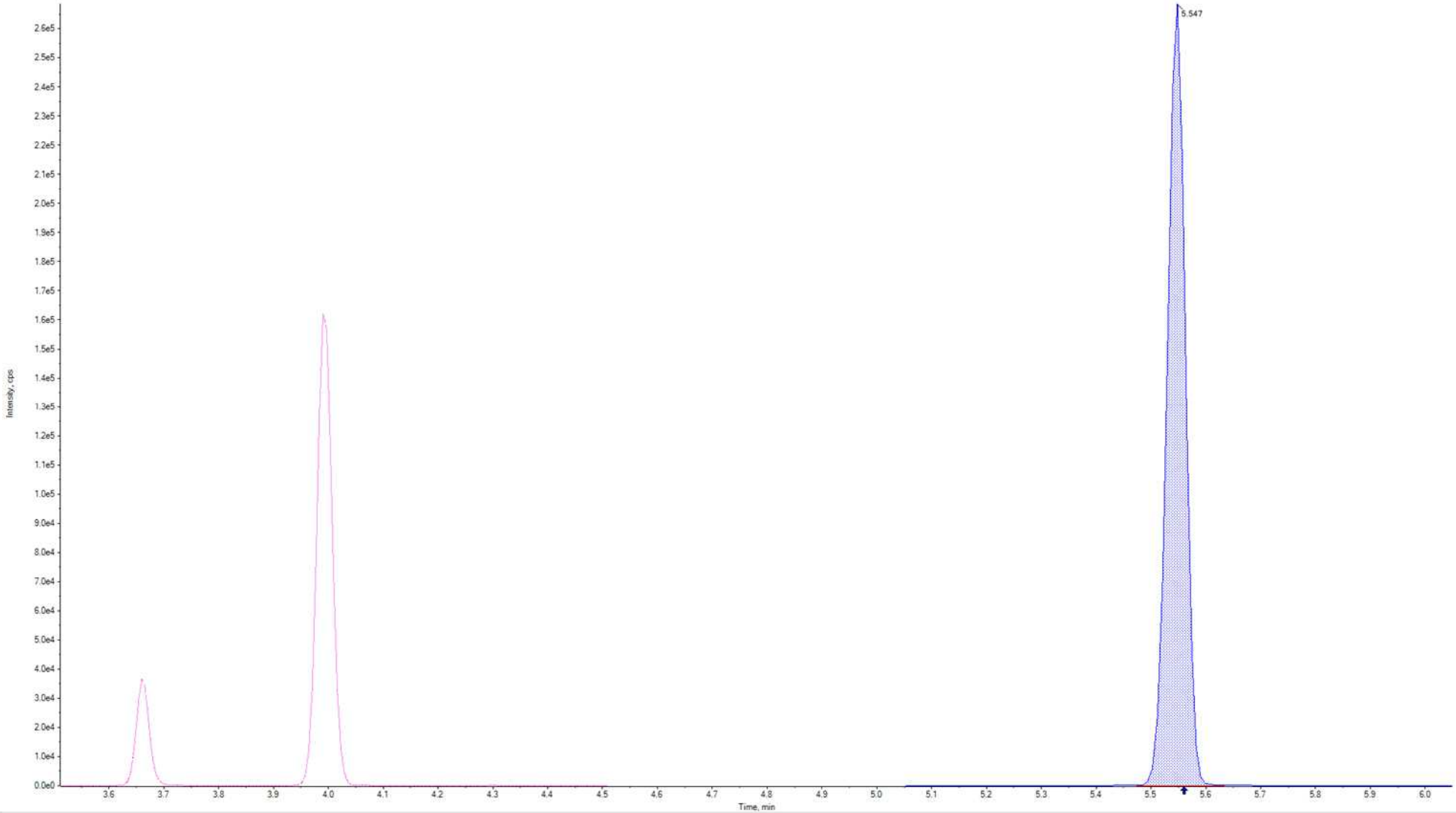
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFDoS
Sample: IA1633STD-25 S/N:34441.2 Points Across peak:28



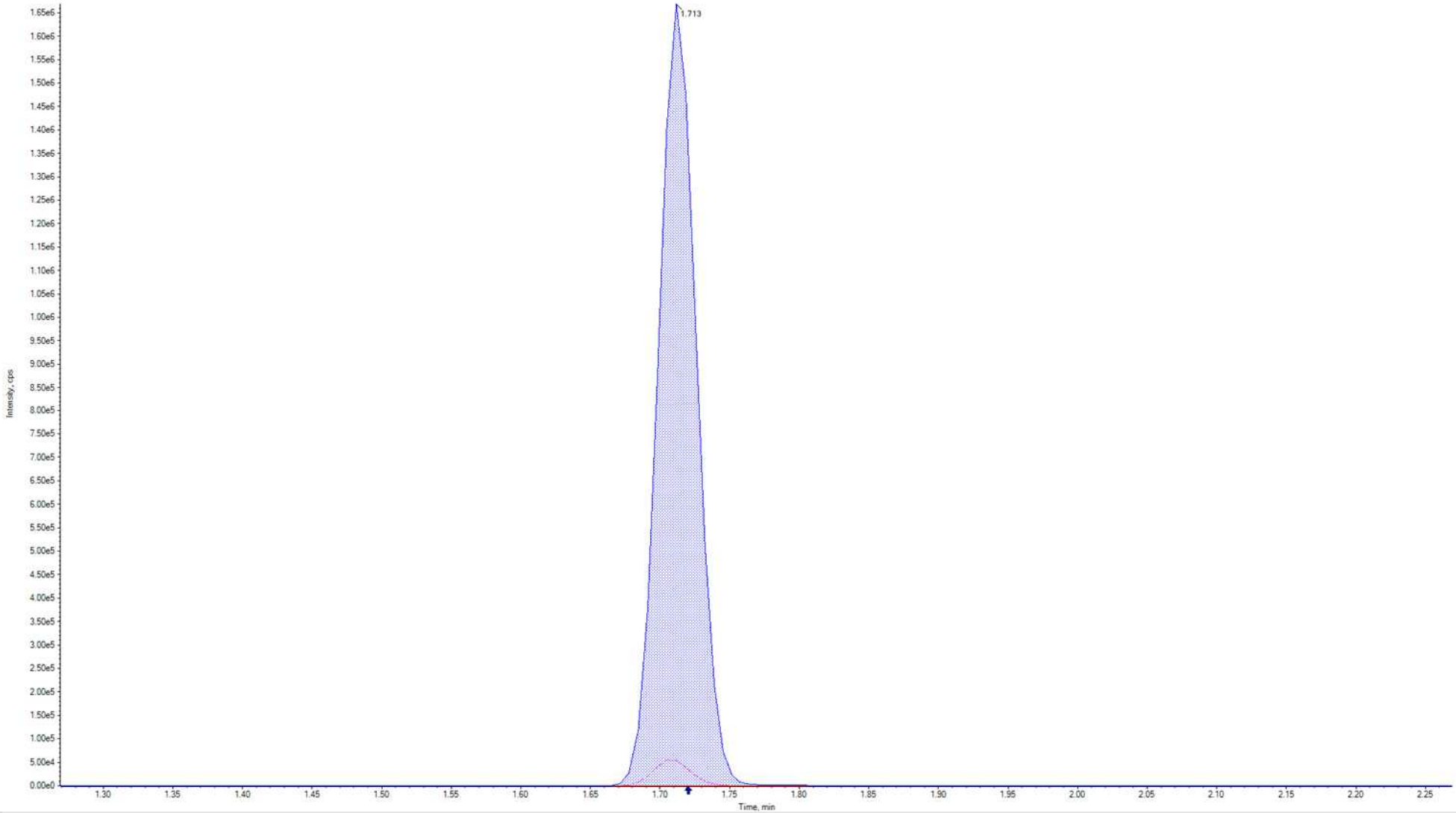
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDoS_2
Sample: IA1633STD-25 S/N:20862.7 Points Across peak:19



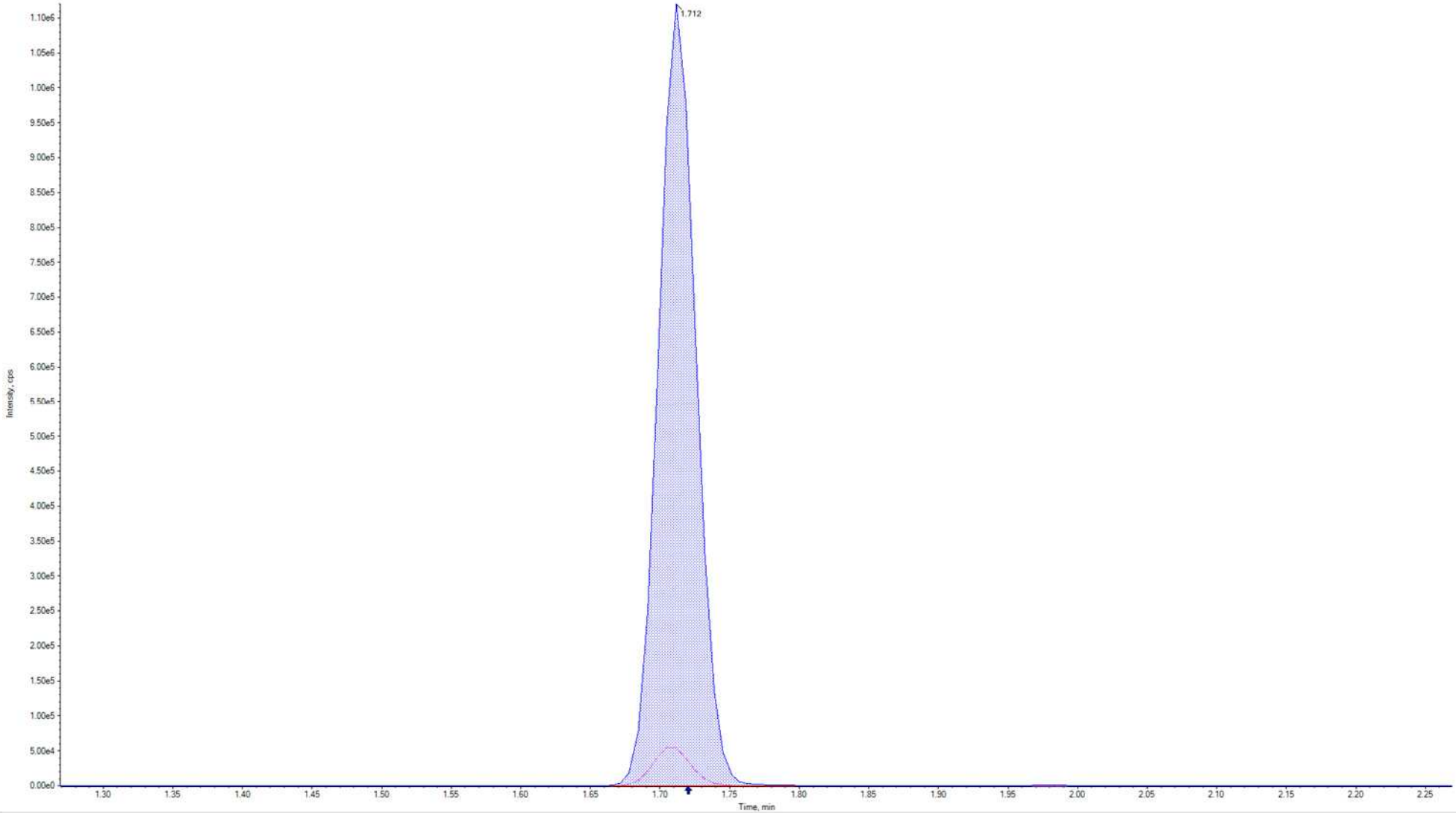
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
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4:2FTS
Sample: IA1633STD-25 S/N:62747.7 Points Across peak:29



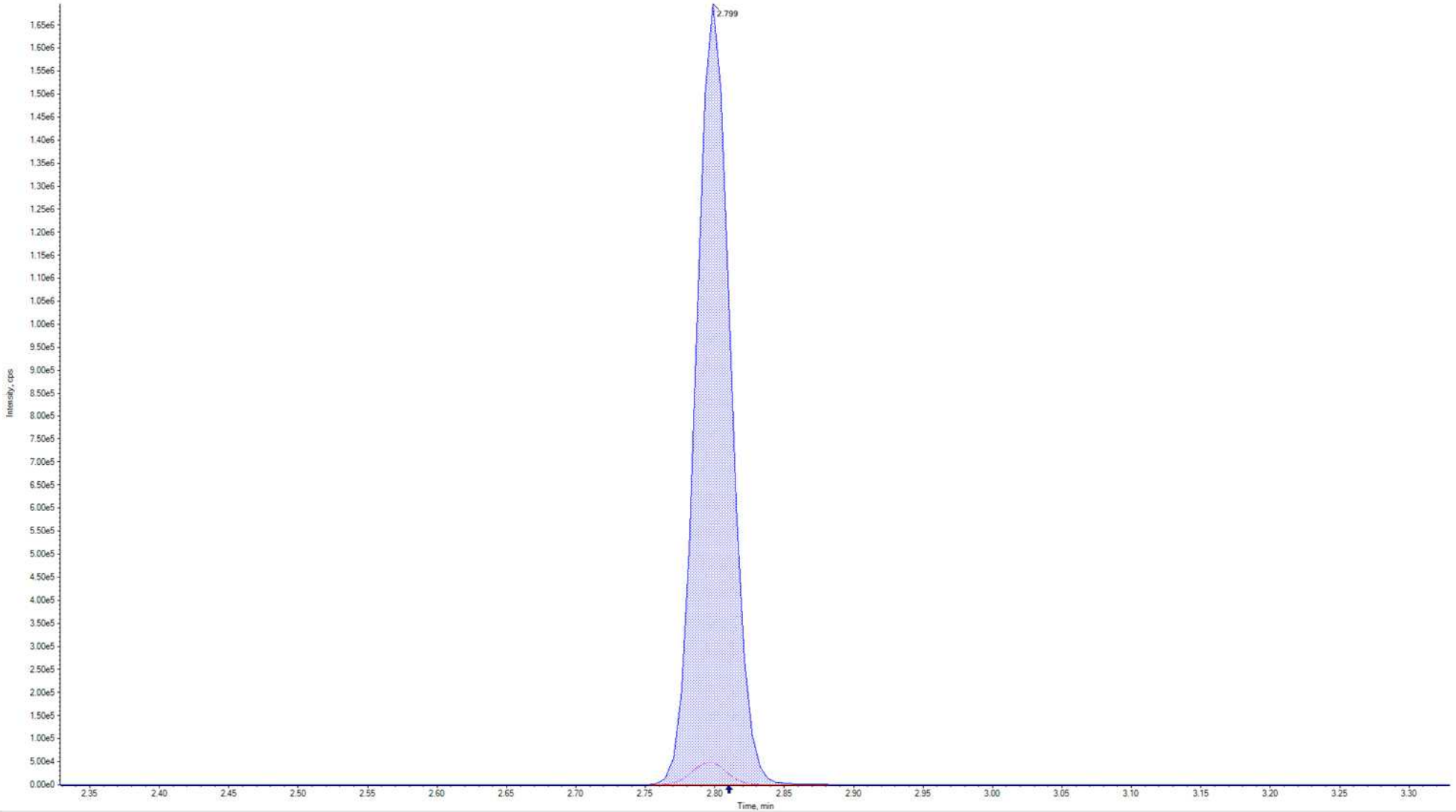
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

4:2FTS_2
Sample: IA1633STD-25 S/N:6984.8 Points Across peak:38



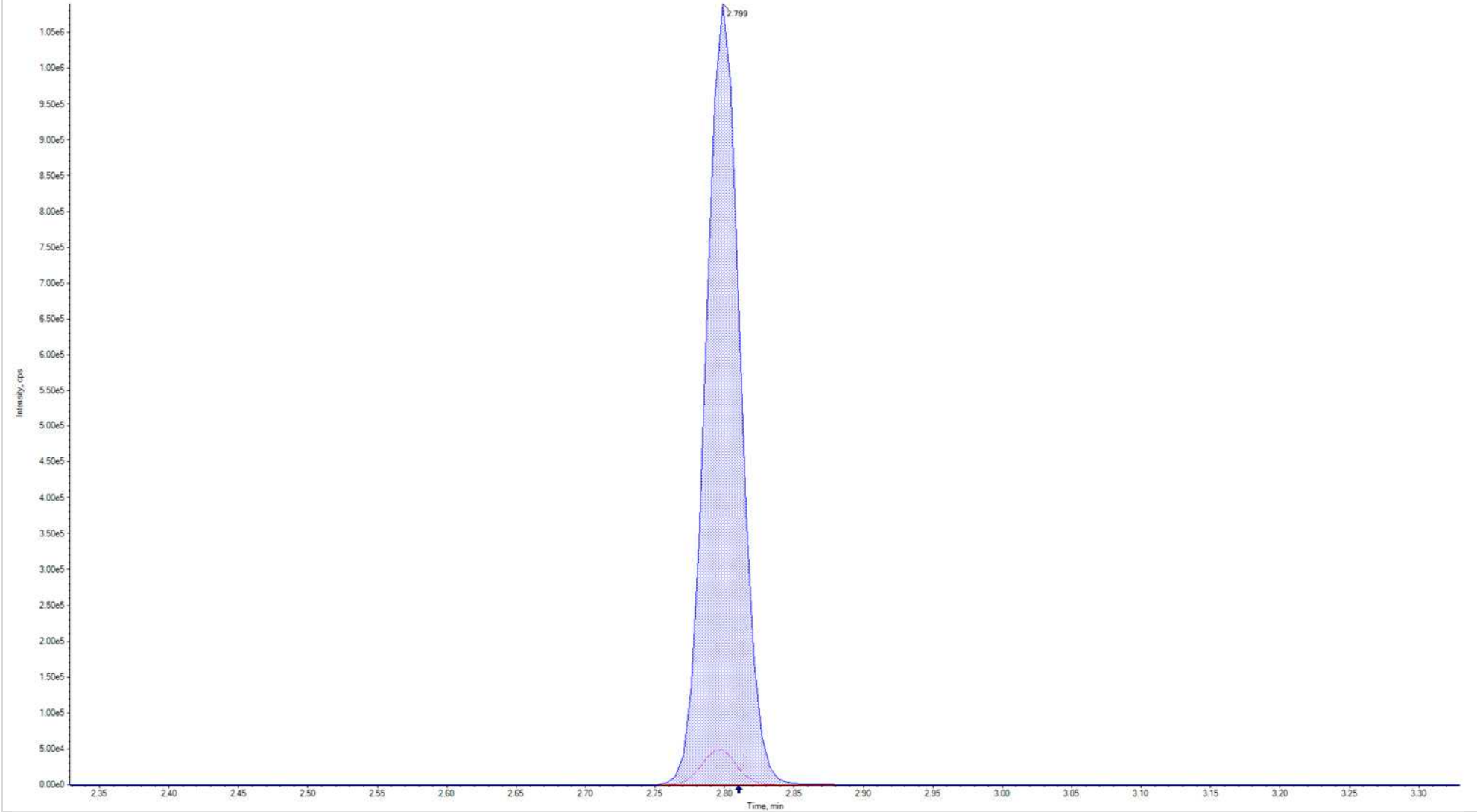
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
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6:2FTS
Sample: IA1633STD-25 S/N:6292.0 Points Across peak:36



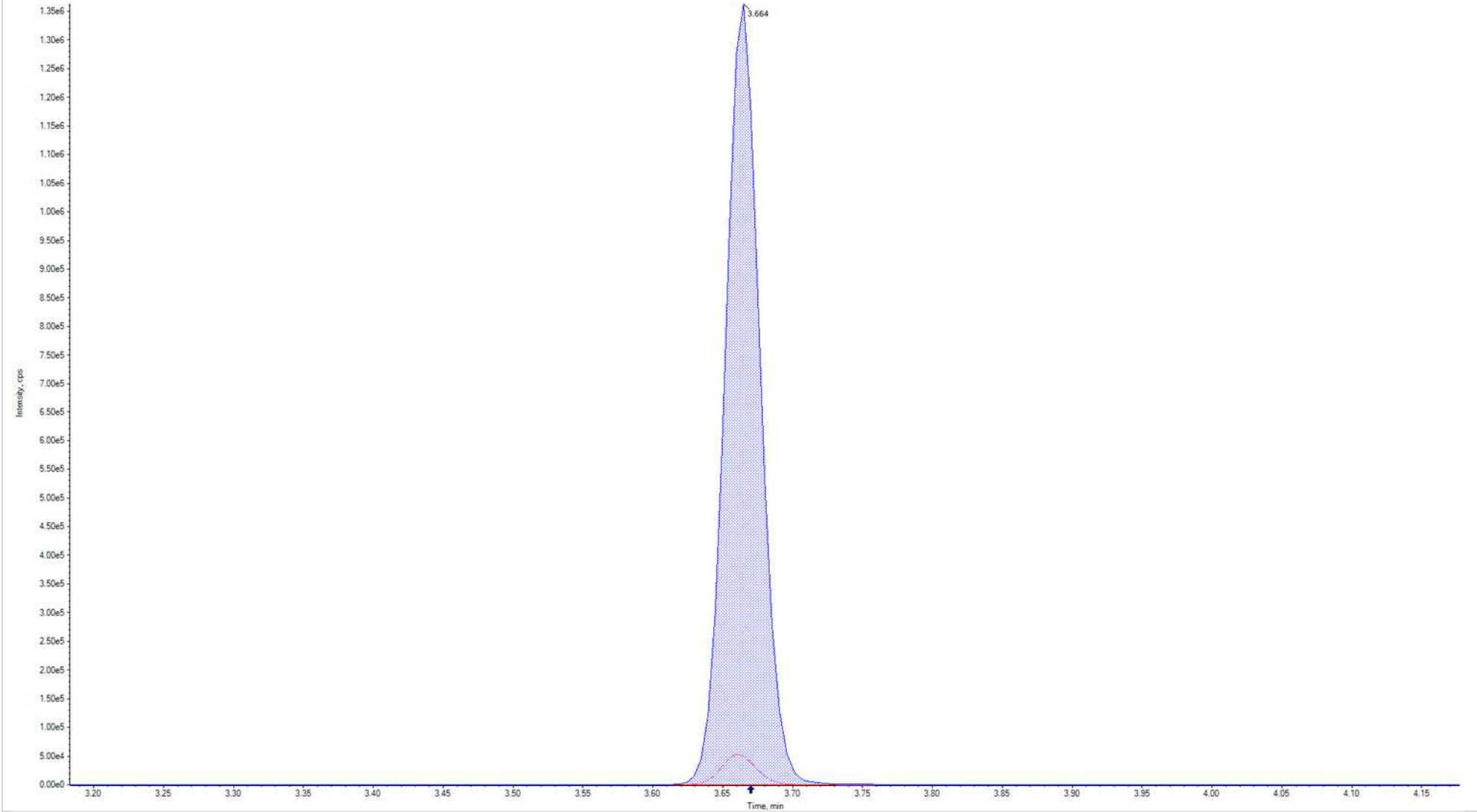
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

6:2FTS_2
Sample: IA1633STD-25 S/N:5996.6 Points Across peak:28



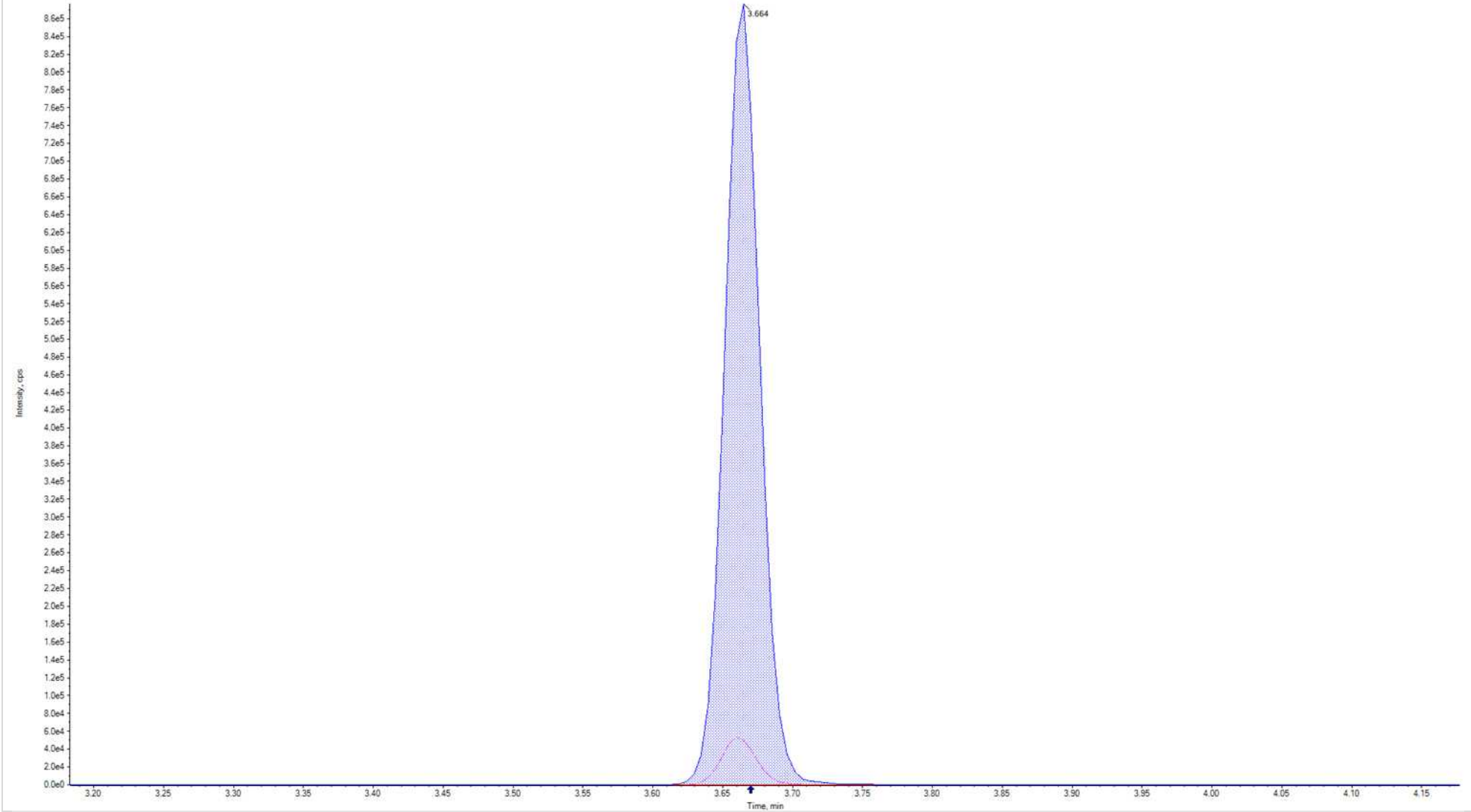
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

8:2FTS
Sample: IA1633STD-25 S/N:7718.1 Points Across peak:28



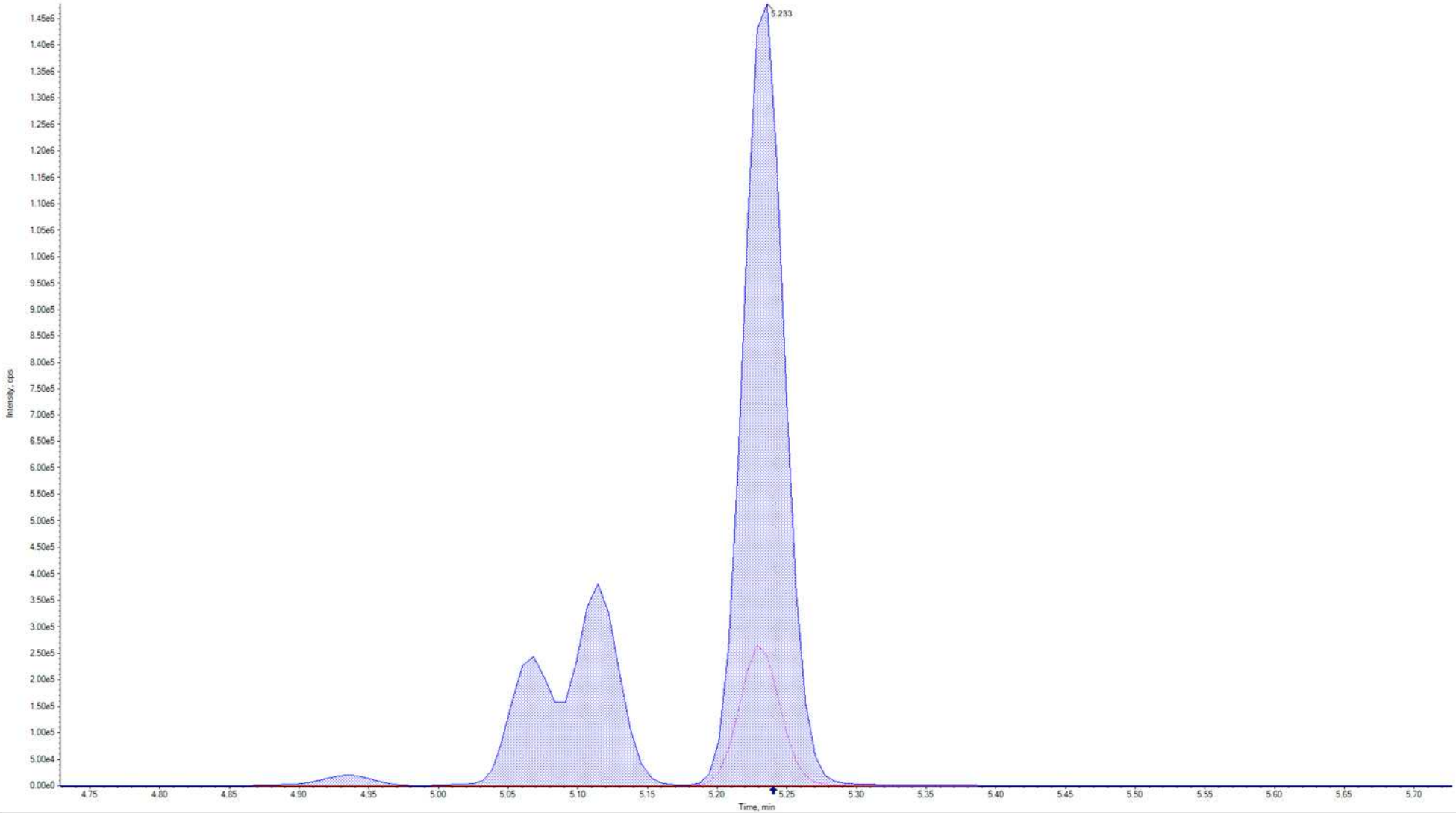
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Alpha Analytical LLC
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8:2FTS_2
Sample: IA1633STD-25 S/N:10106.2 Points Across peak:35



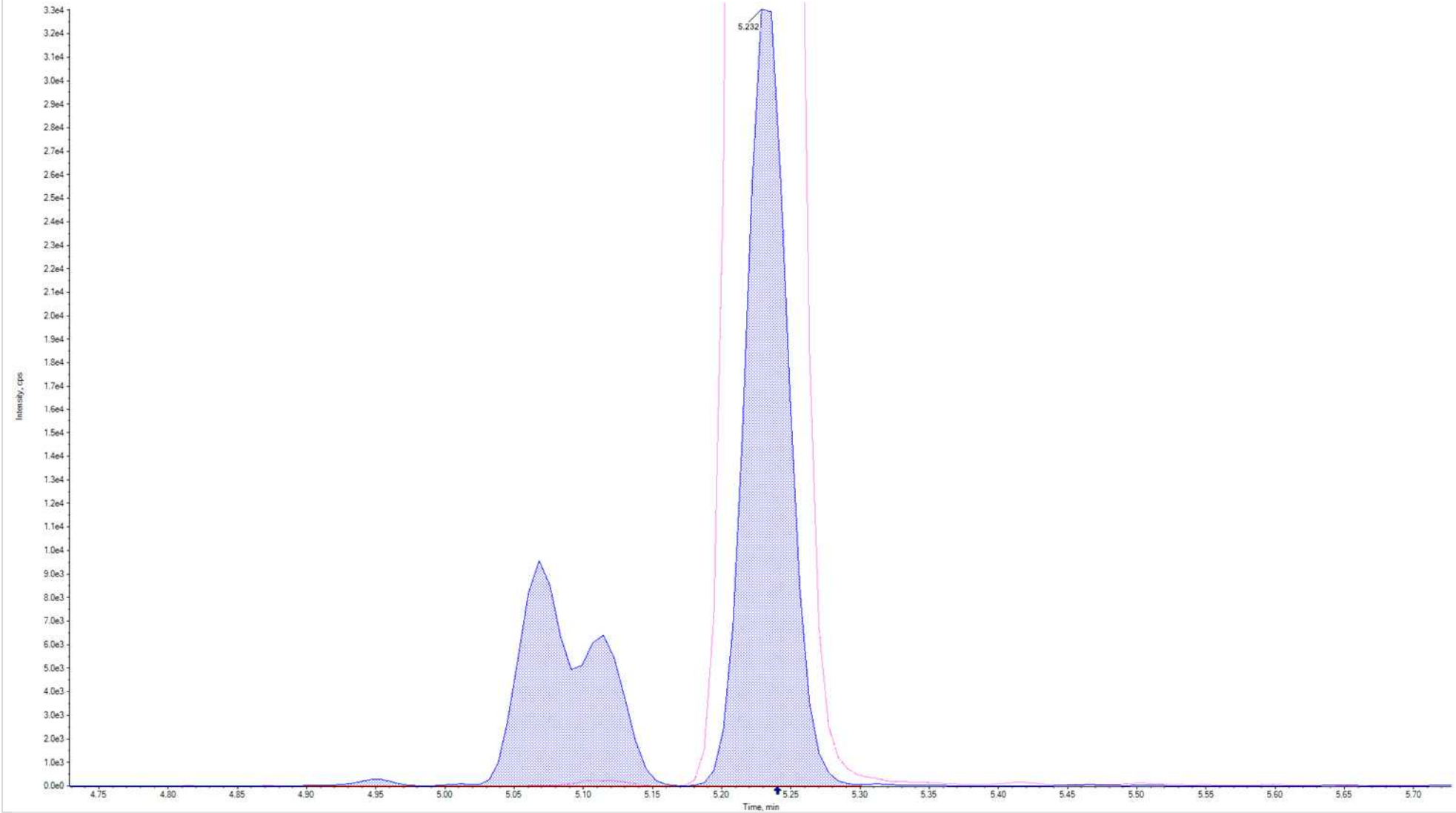
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOSA
Sample: IA1633STD-25 S/N:384.6 Points Across peak:76



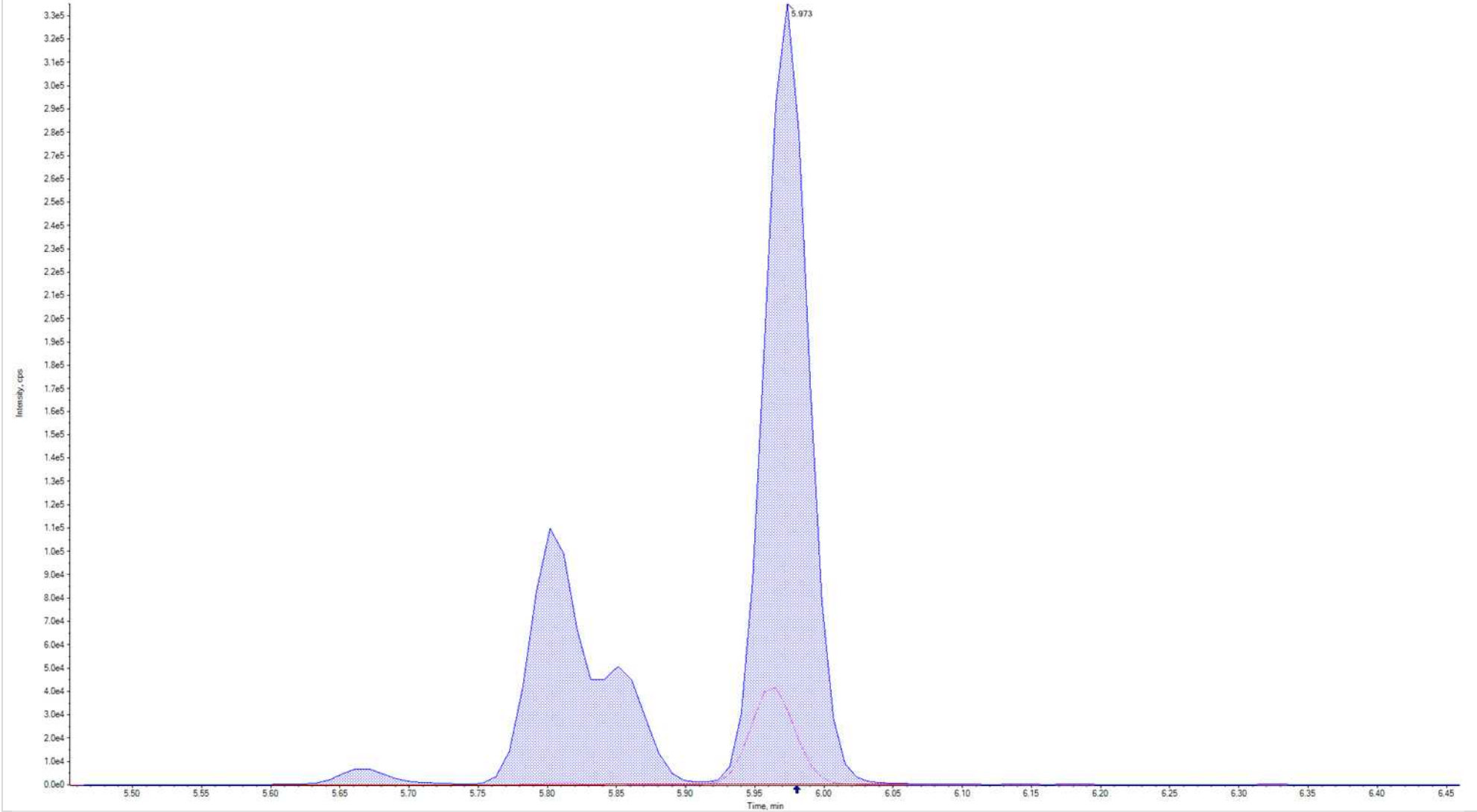
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Alpha Analytical LLC
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PFOSA_2
Sample: IA1633STD-25 S/N:454.9 Points Across peak:61



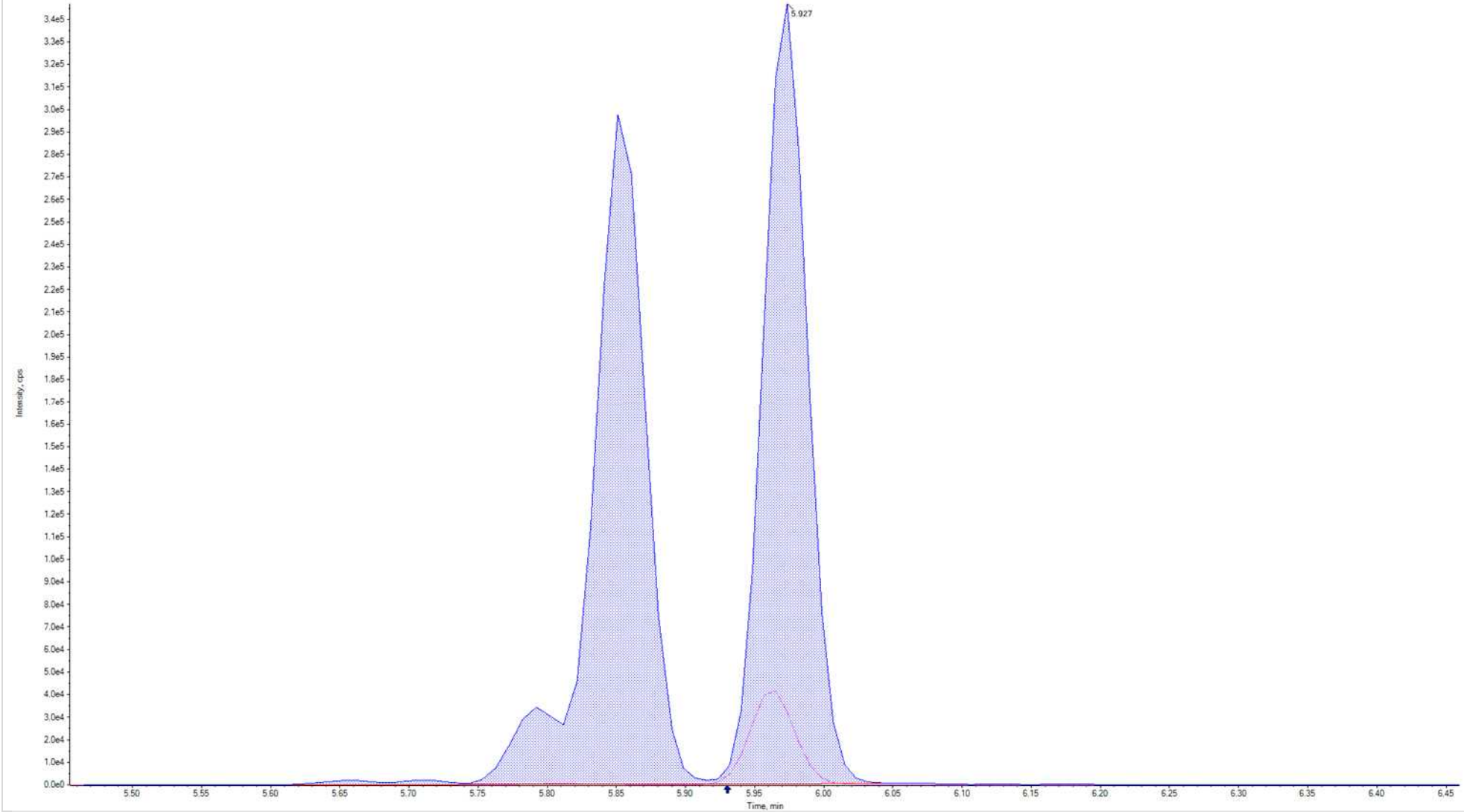
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Alpha Analytical LLC
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NMeFOSA
Sample: IA1633STD-25 S/N:329.7 Points Across peak:56



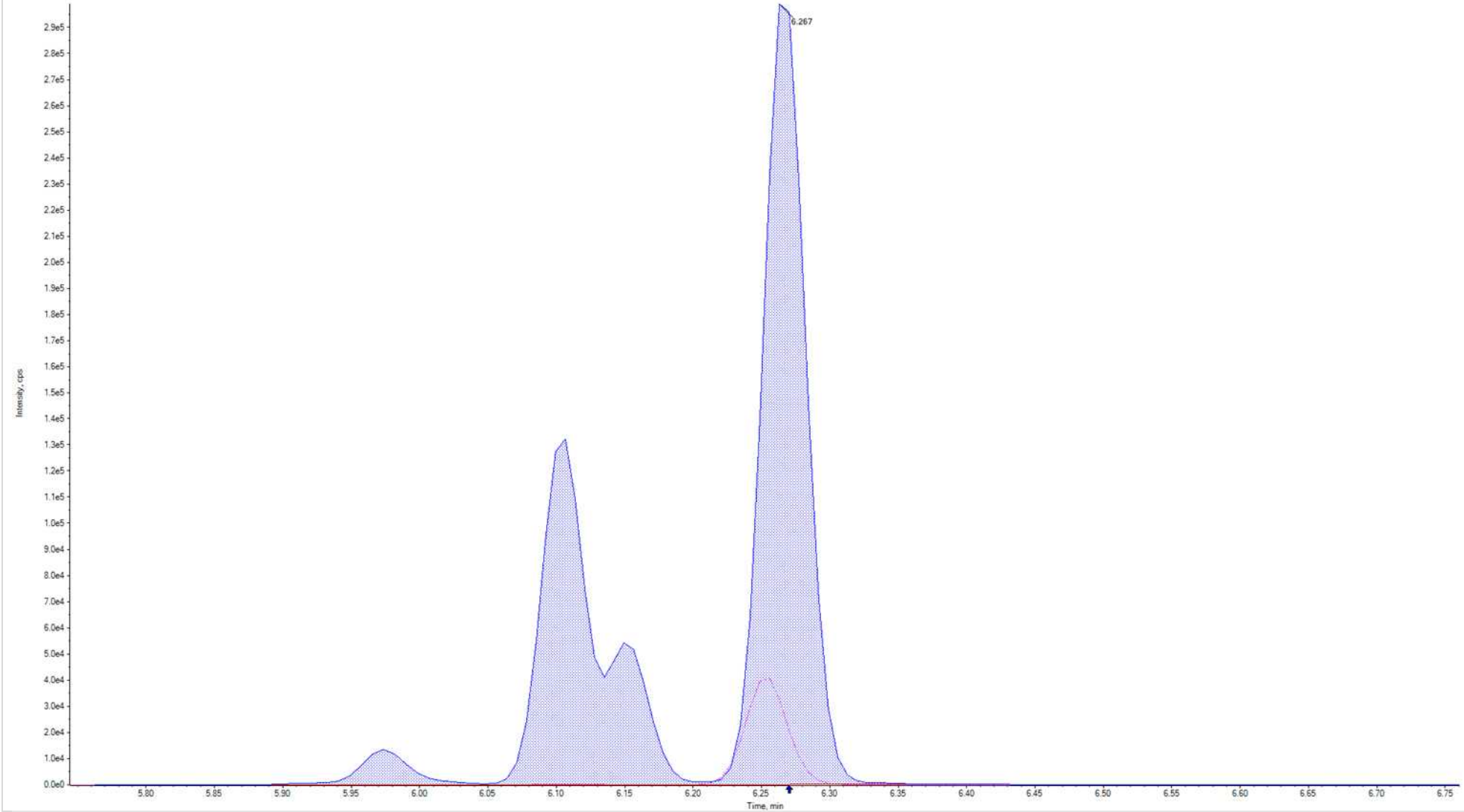
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSA_2
Sample: IA1633STD-25 S/N:278.7 Points Across peak:53



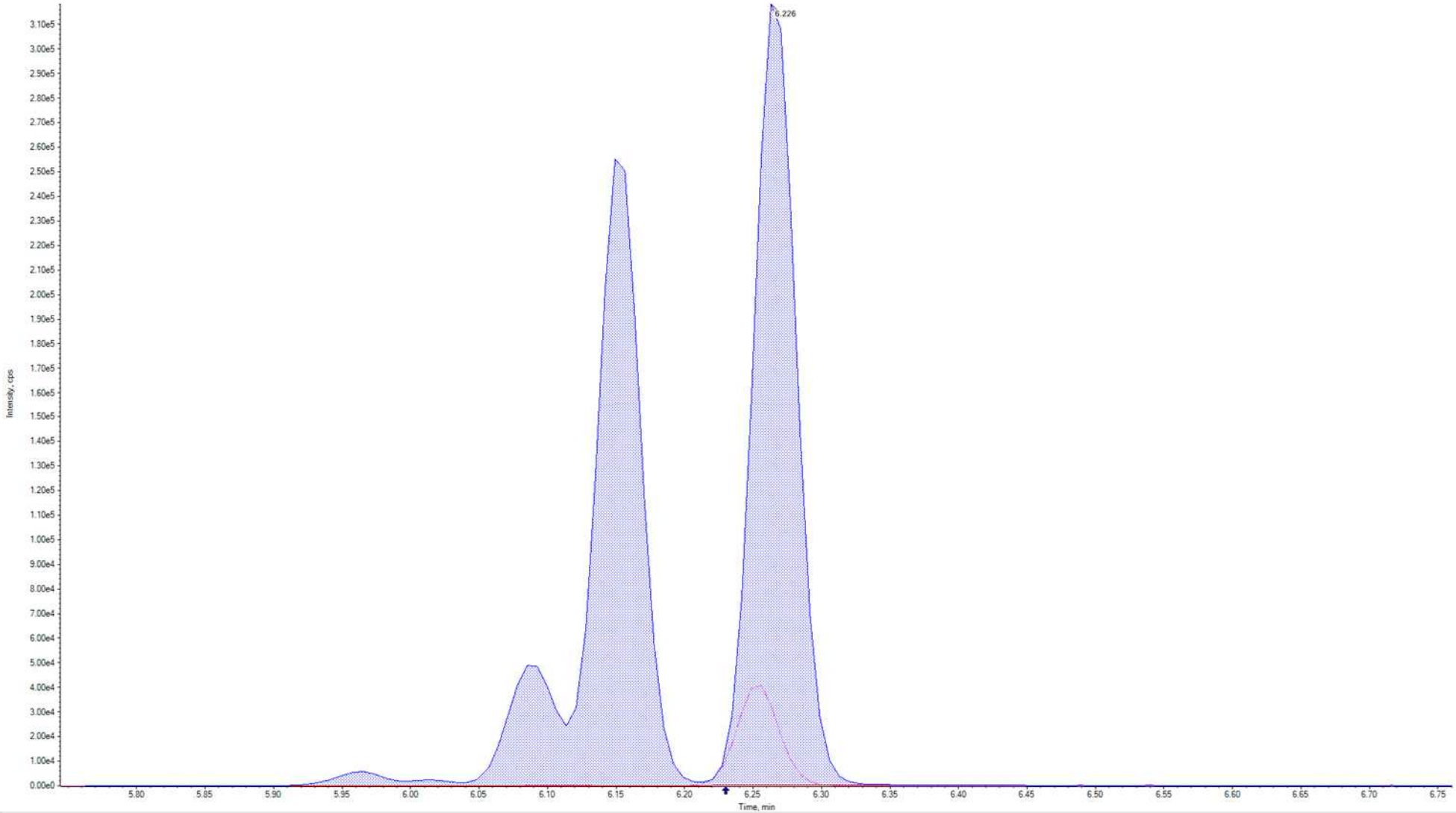
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NEtFOSA
Sample: IA1633STD-25 S/N:680.1 Points Across peak:74



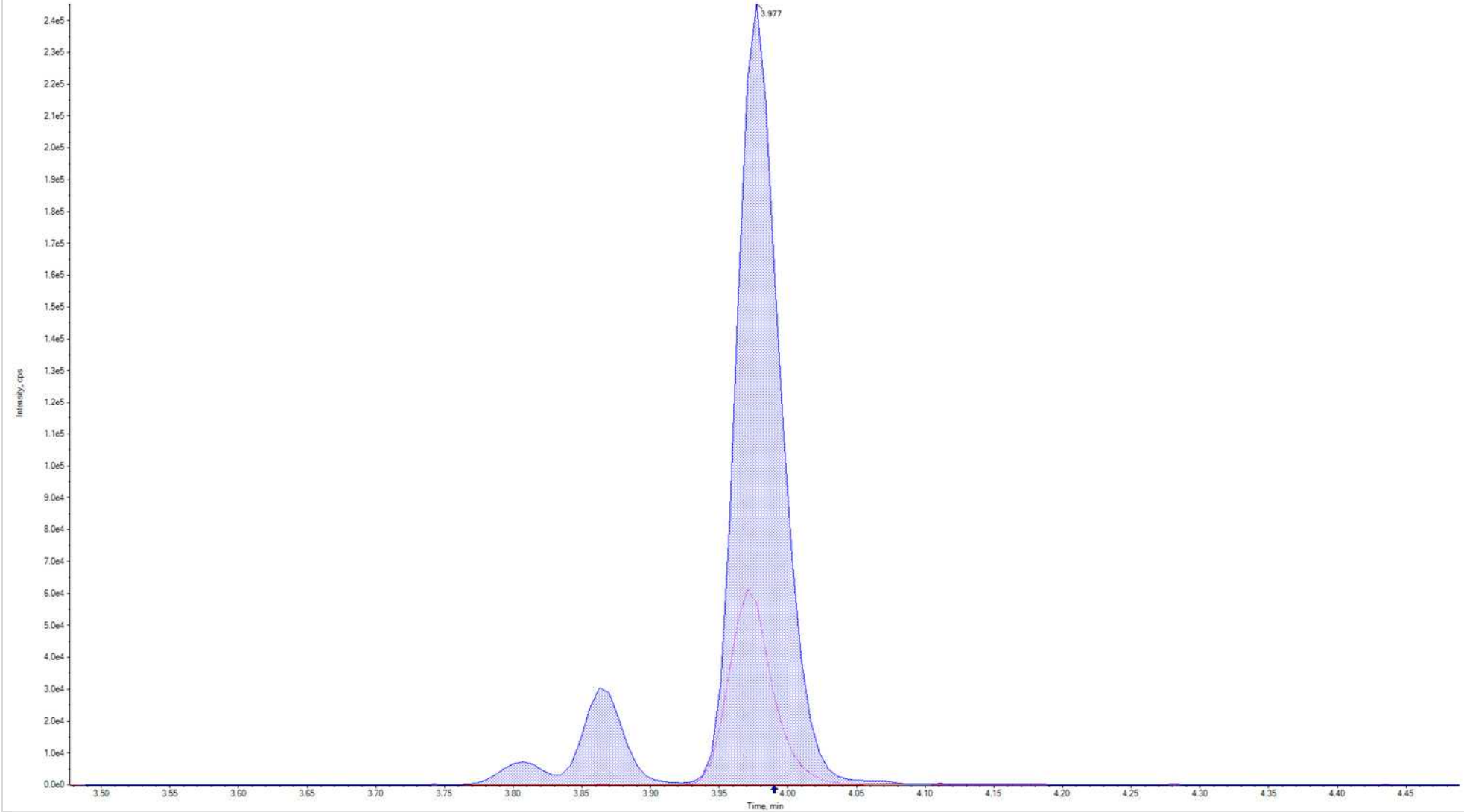
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

NEtFOSA_2
Sample: IA1633STD-25 S/N:746.8 Points Across peak:70



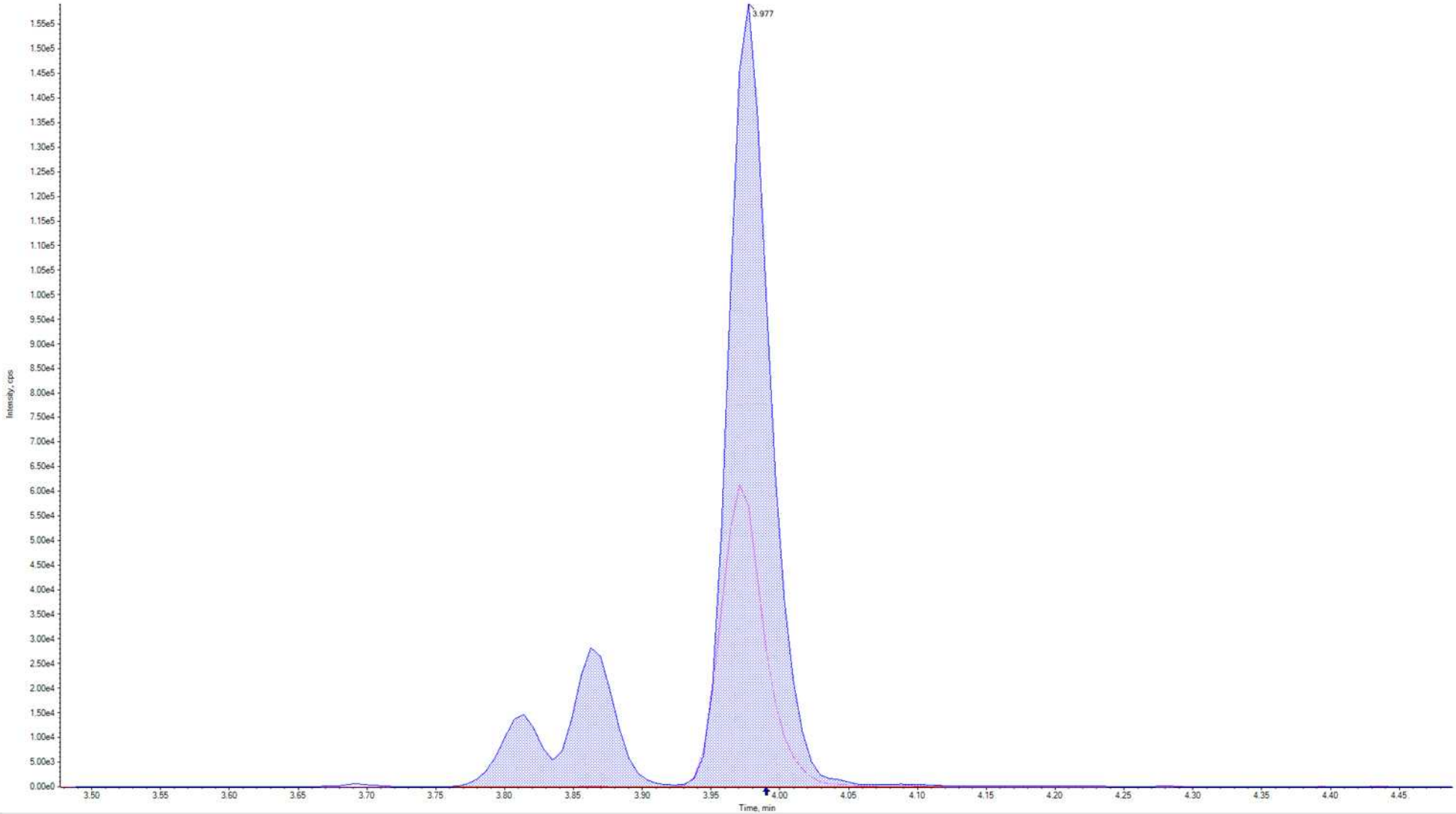
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSAA
Sample: IA1633STD-25 S/N:823.7 Points Across peak:57



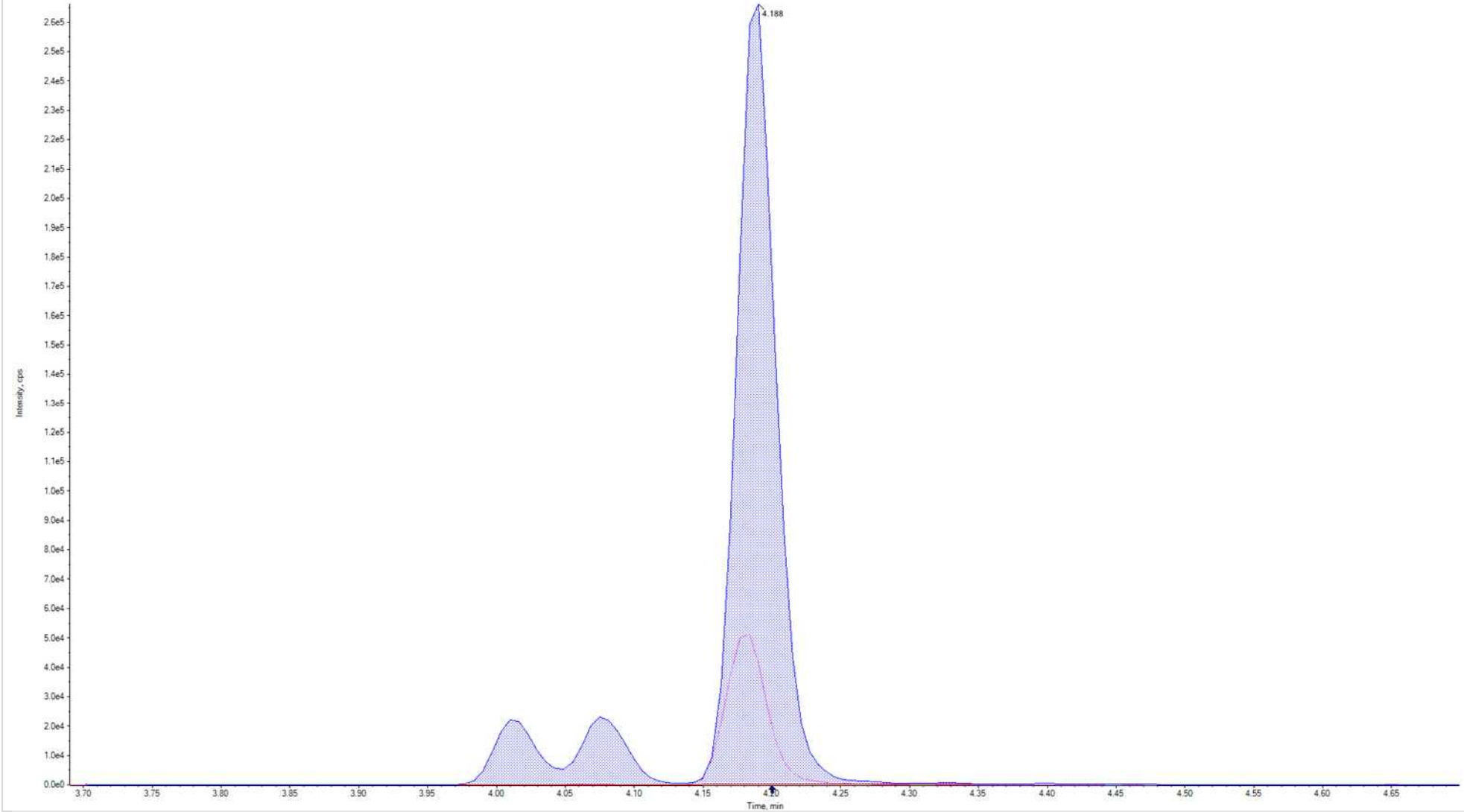
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSAA_2
Sample: IA1633STD-25 S/N:490.5 Points Across peak:60



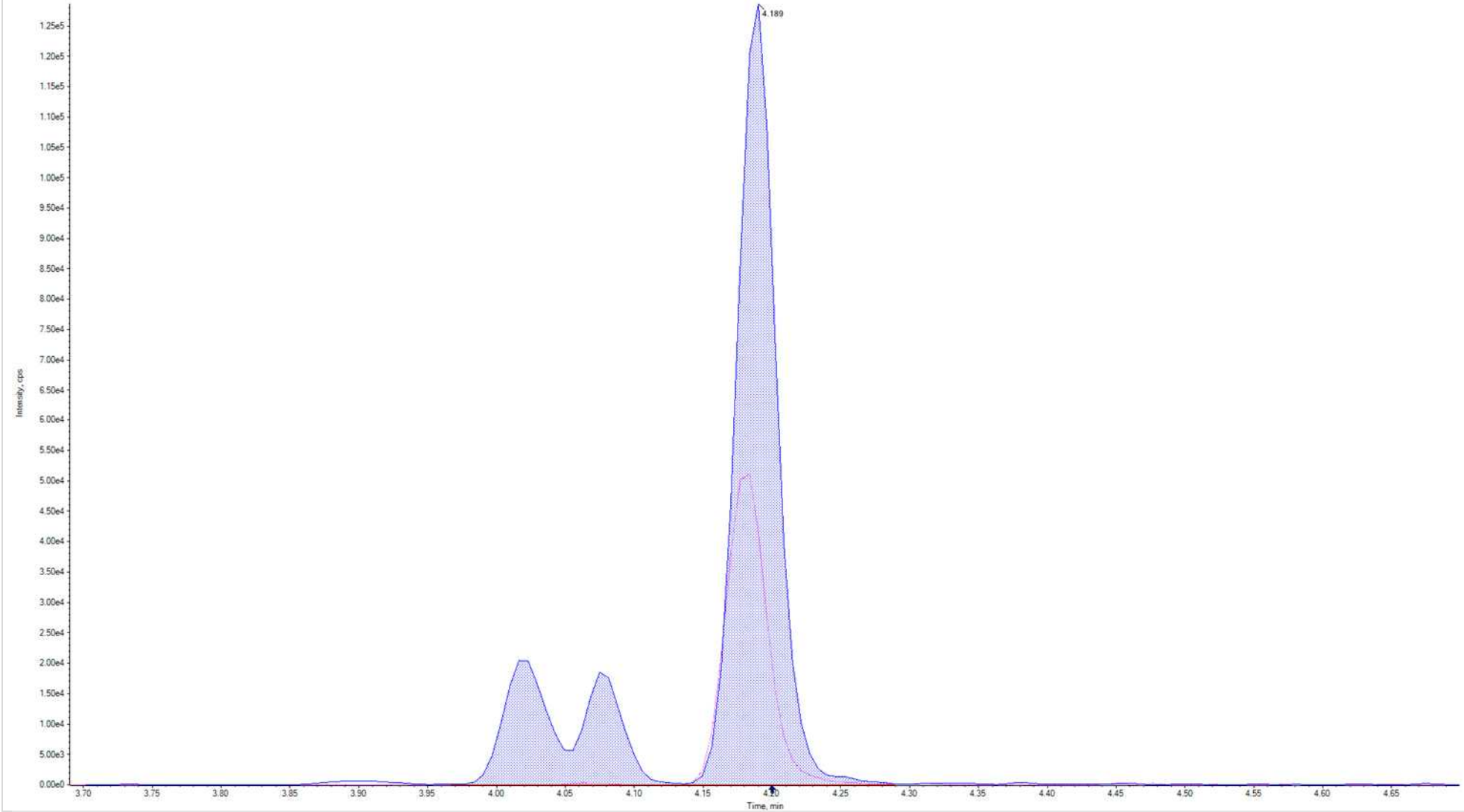
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Alpha Analytical LLC
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NEtFOSAA
Sample: IA1633STD-25 S/N:694.6 Points Across peak:63



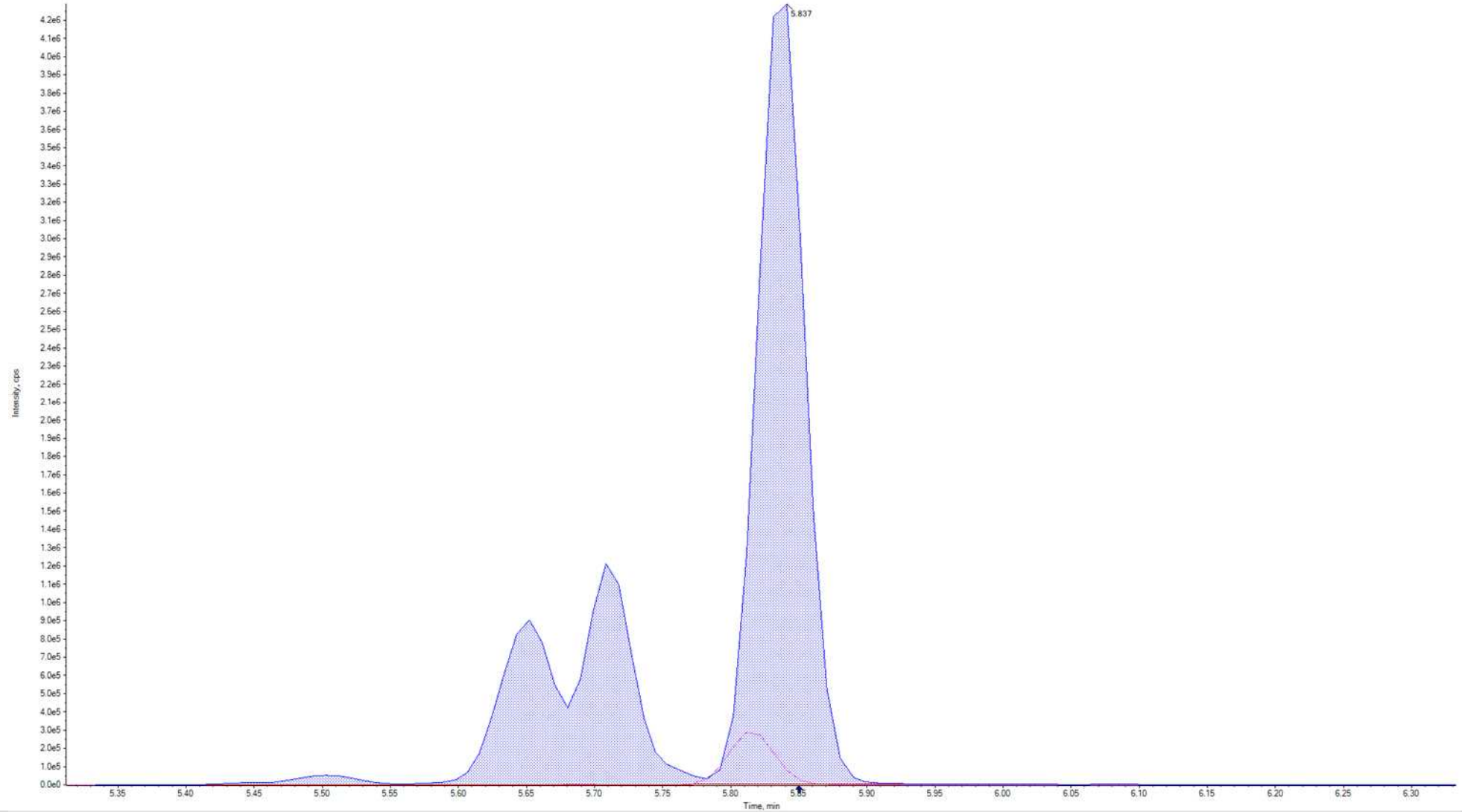
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

NEtFOSAA_2
Sample: IA1633STD-25 S/N:424.5 Points Across peak:52



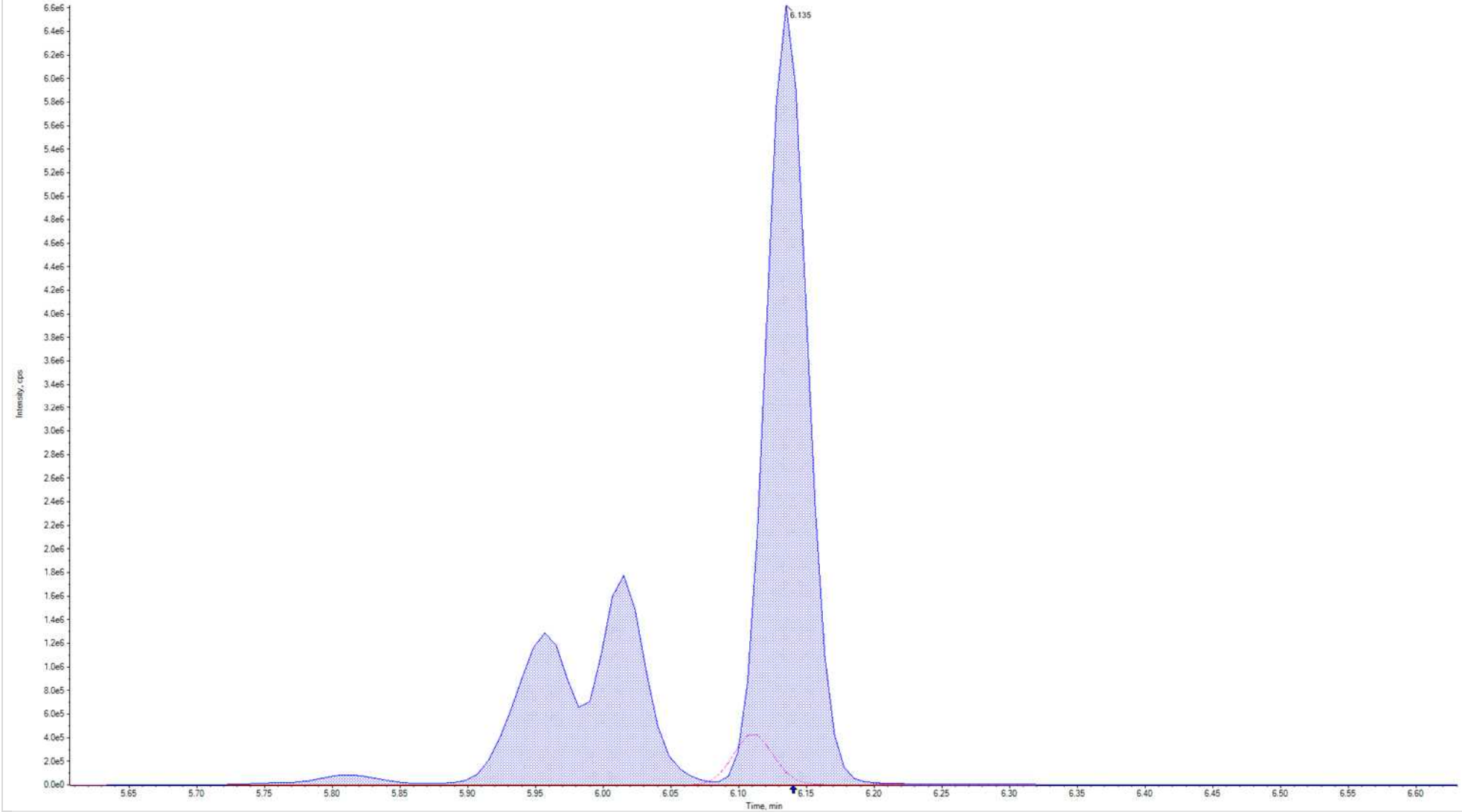
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSE
Sample: IA1633STD-25 S/N:223.4 Points Across peak:66



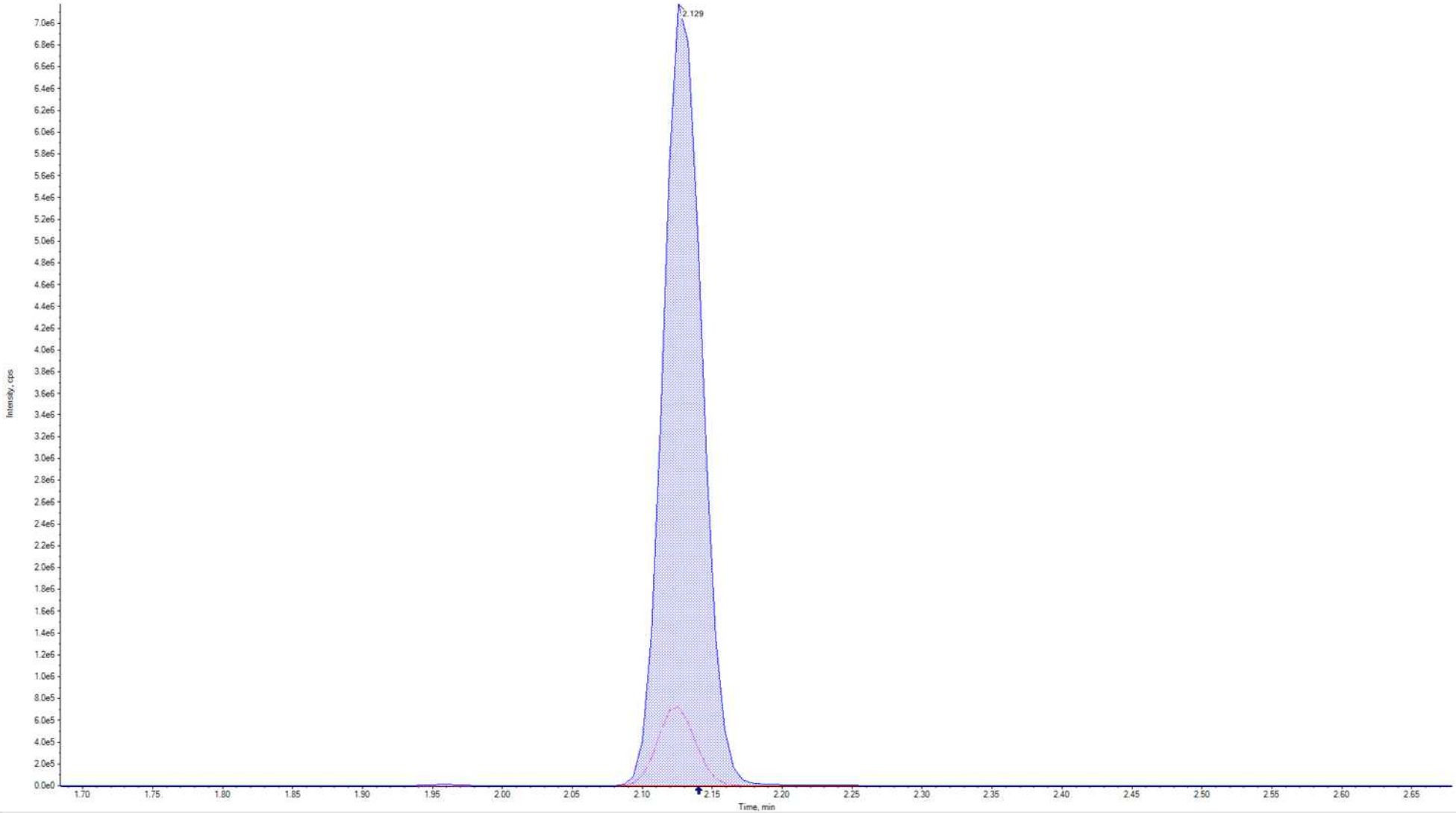
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

NEtFOSE
Sample: IA1633STD-25 S/N:411.7 Points Across peak:73



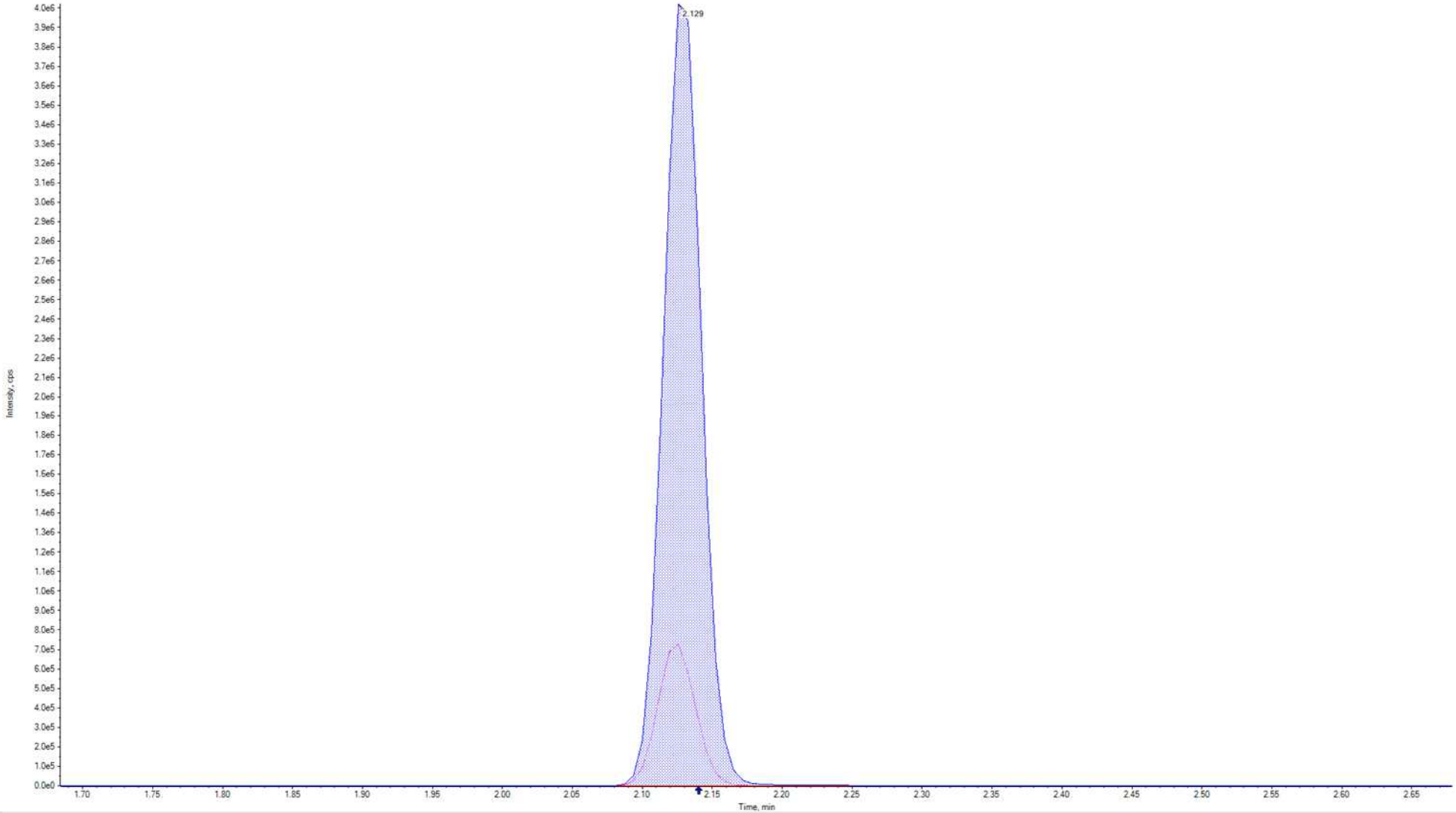
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

HFPO-DA
Sample: IA1633STD-25 S/N:161897.2 Points Across peak:32



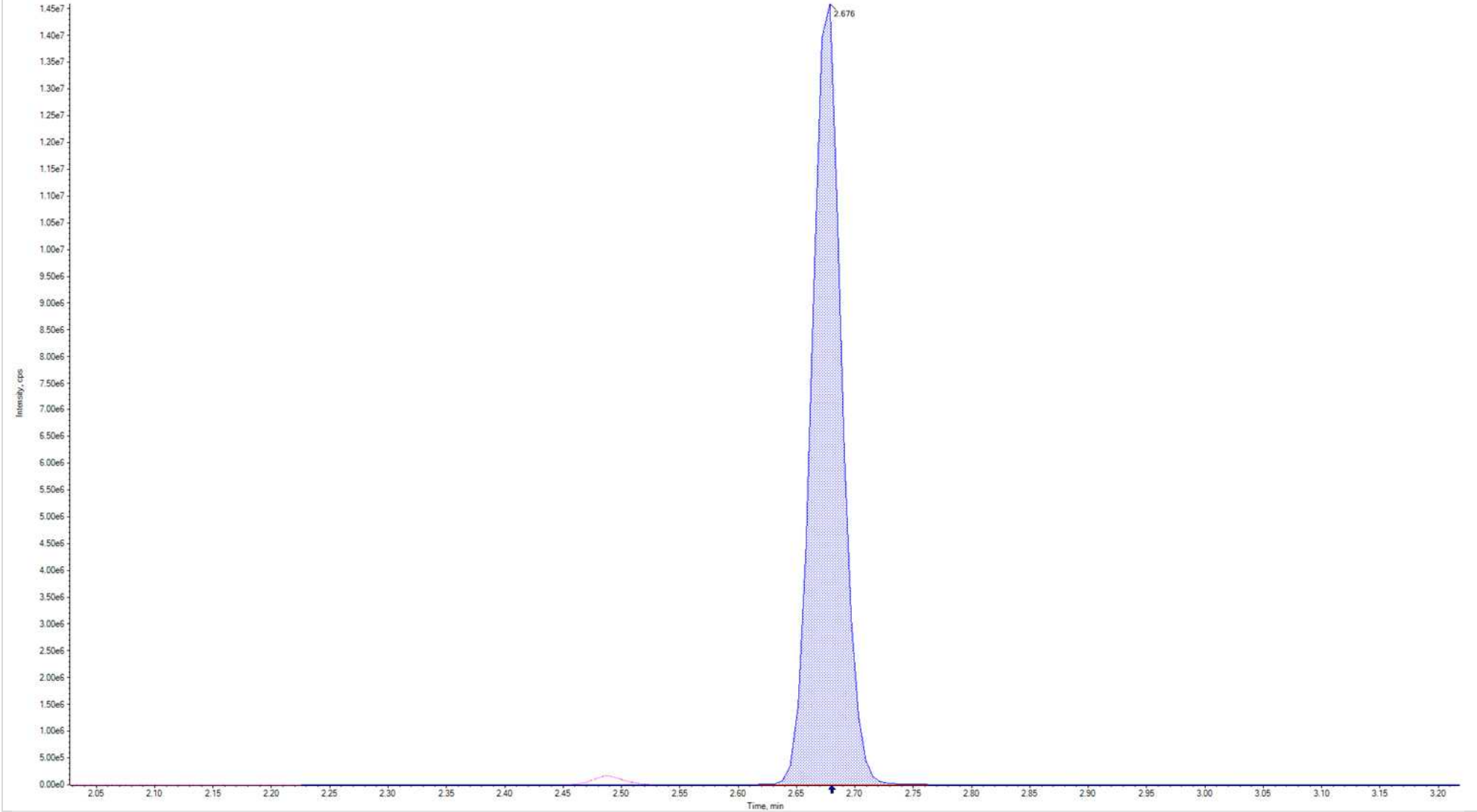
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Alpha Analytical LLC
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HFPO-DA_2
Sample: IA1633STD-25 S/N:90707.8 Points Across peak:32



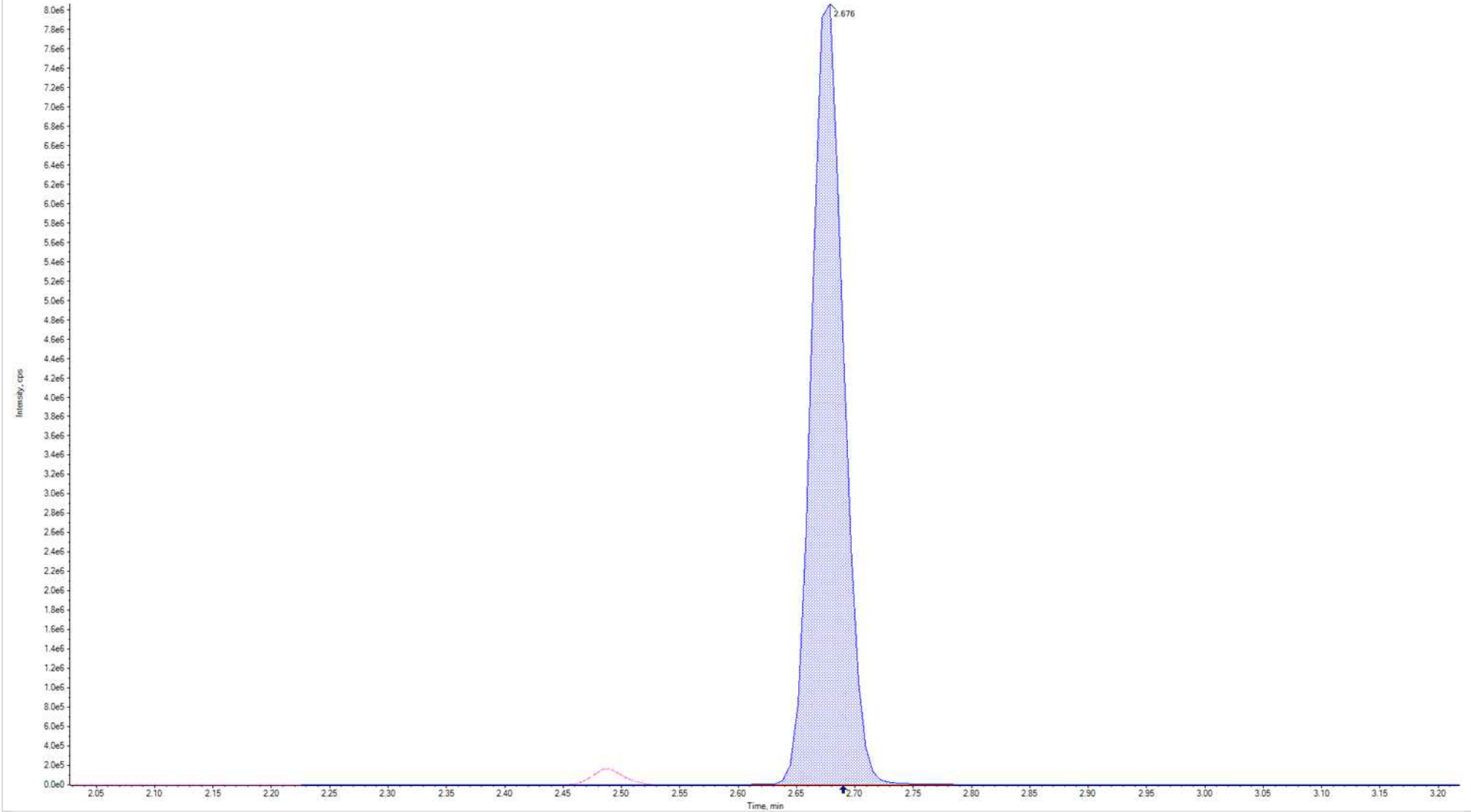
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

ADONA
Sample: IA1633STD-25 S/N:130003.1 Points Across peak:36



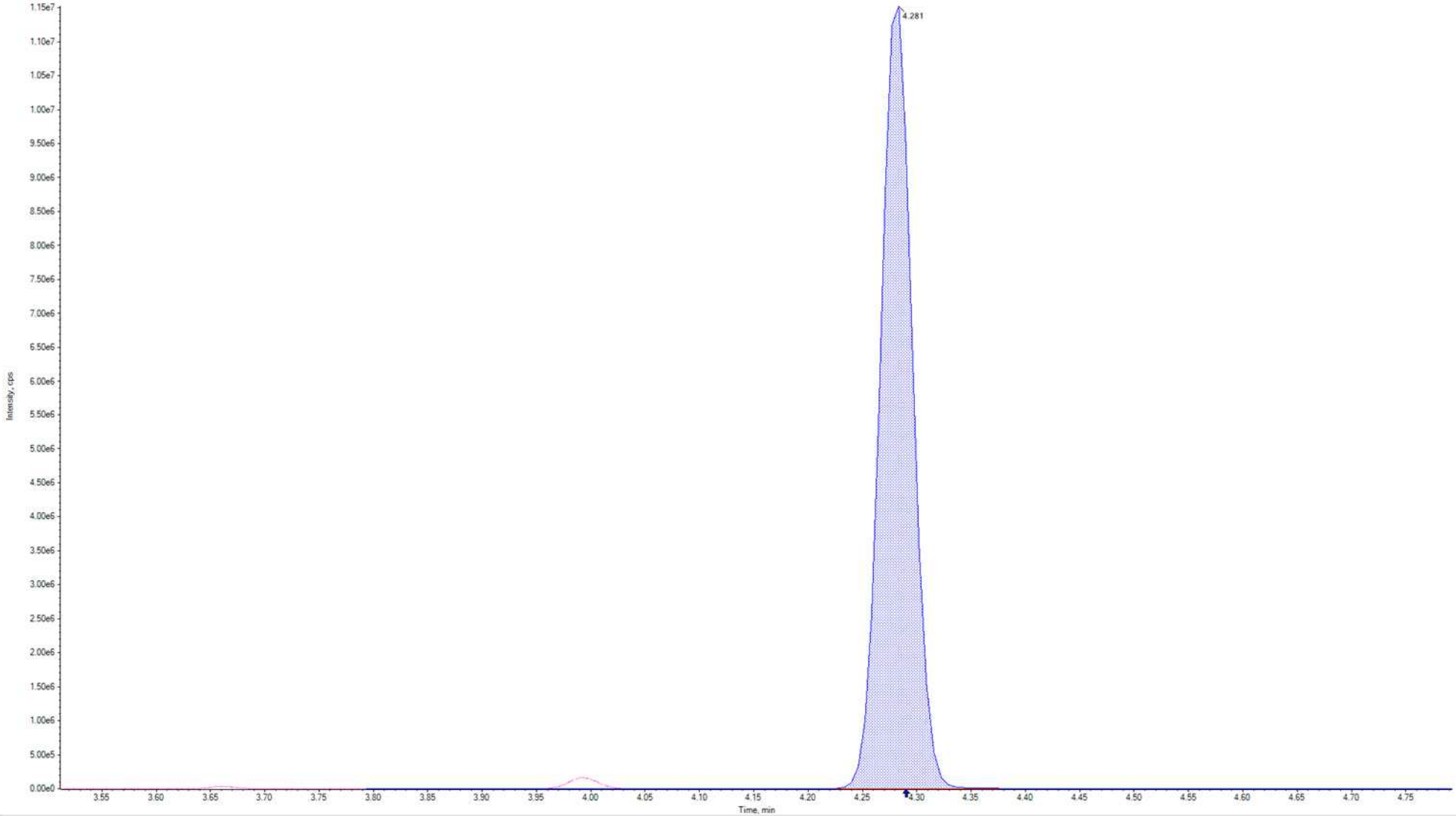
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

ADONA_2
Sample: IA1633STD-25 S/N:161722.5 Points Across peak:37



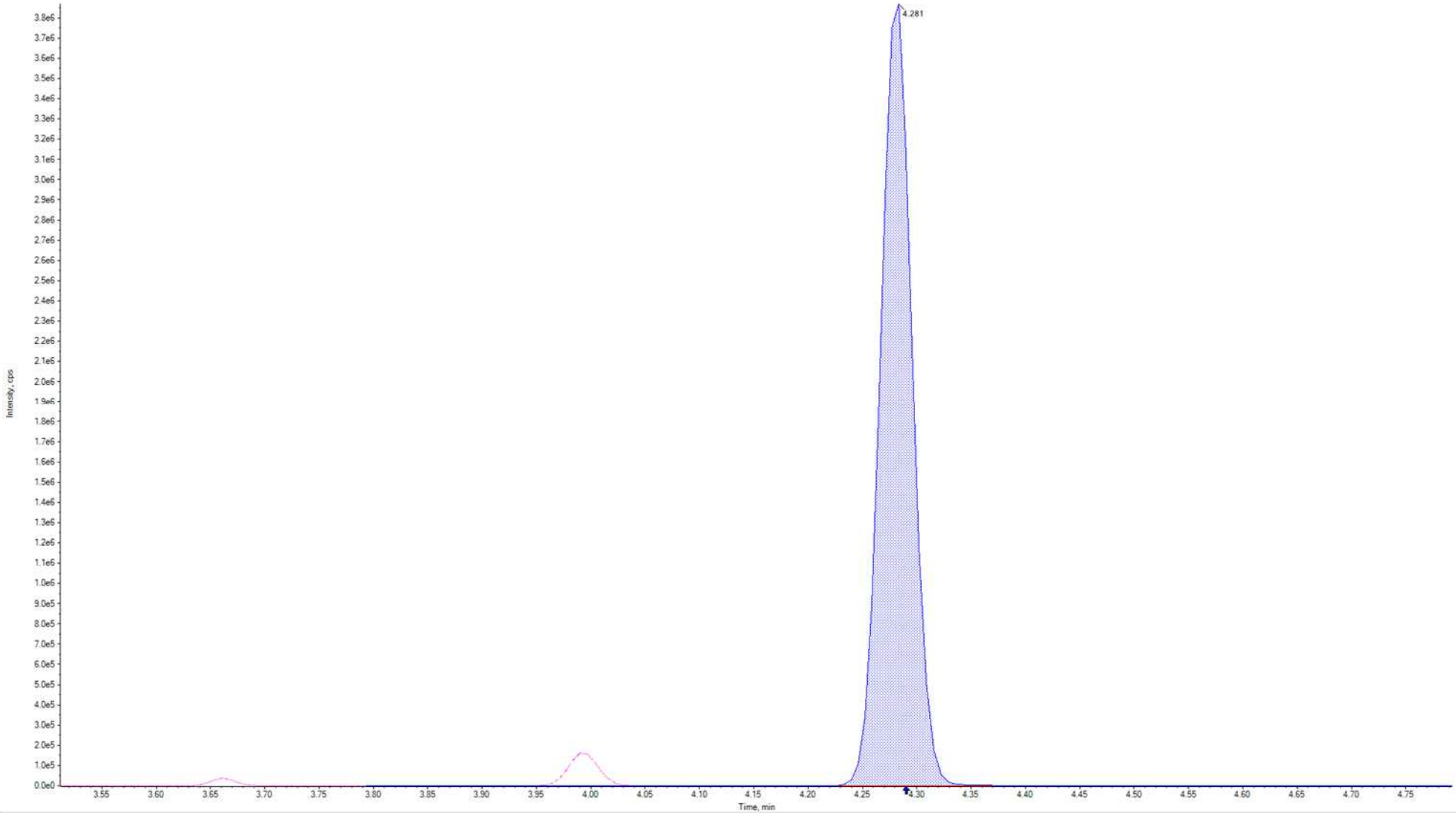
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS
Sample: IA1633STD-25 S/N:7679.6 Points Across peak:40



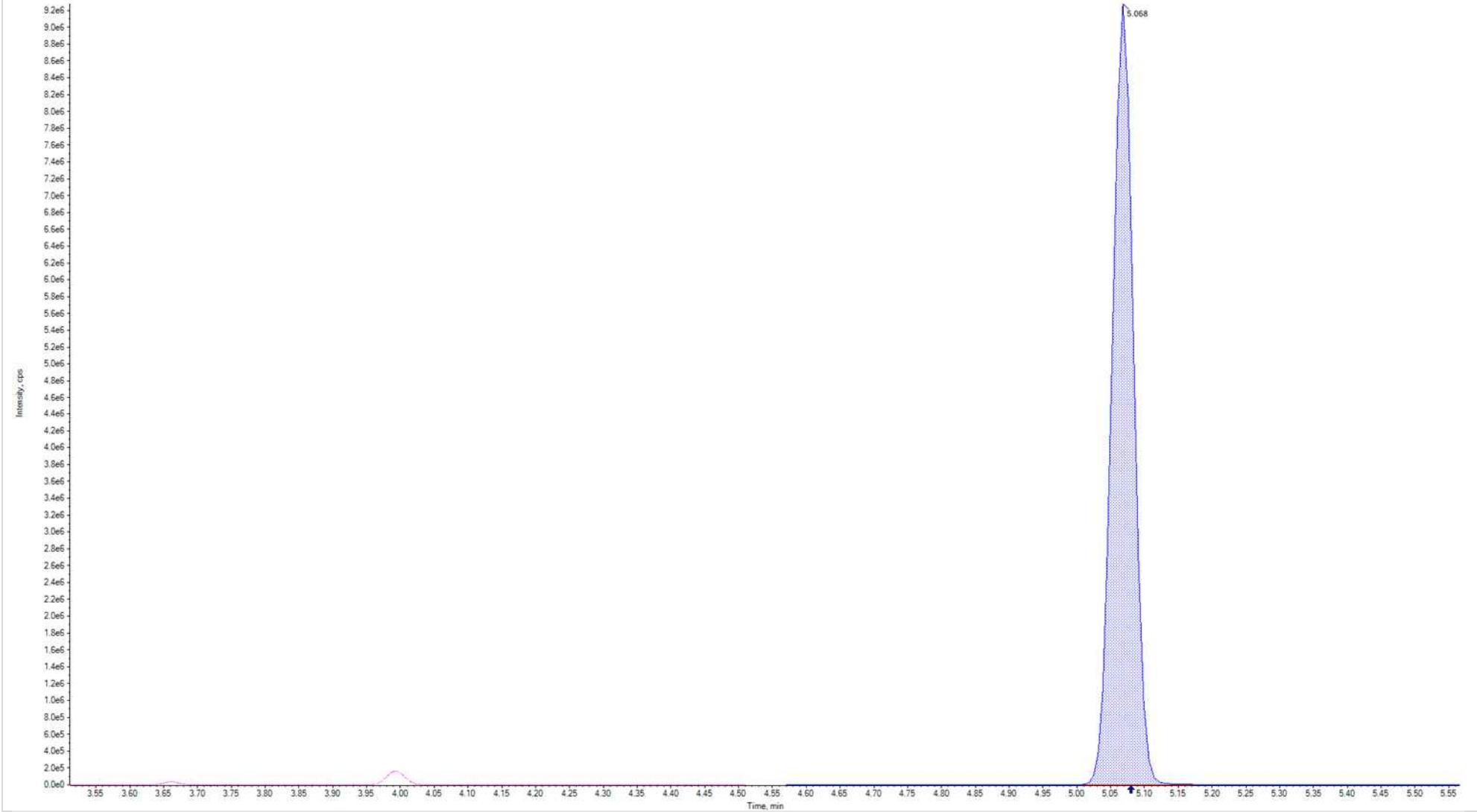
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS_2
Sample: IA1633STD-25 S/N:87281.6 Points Across peak:32



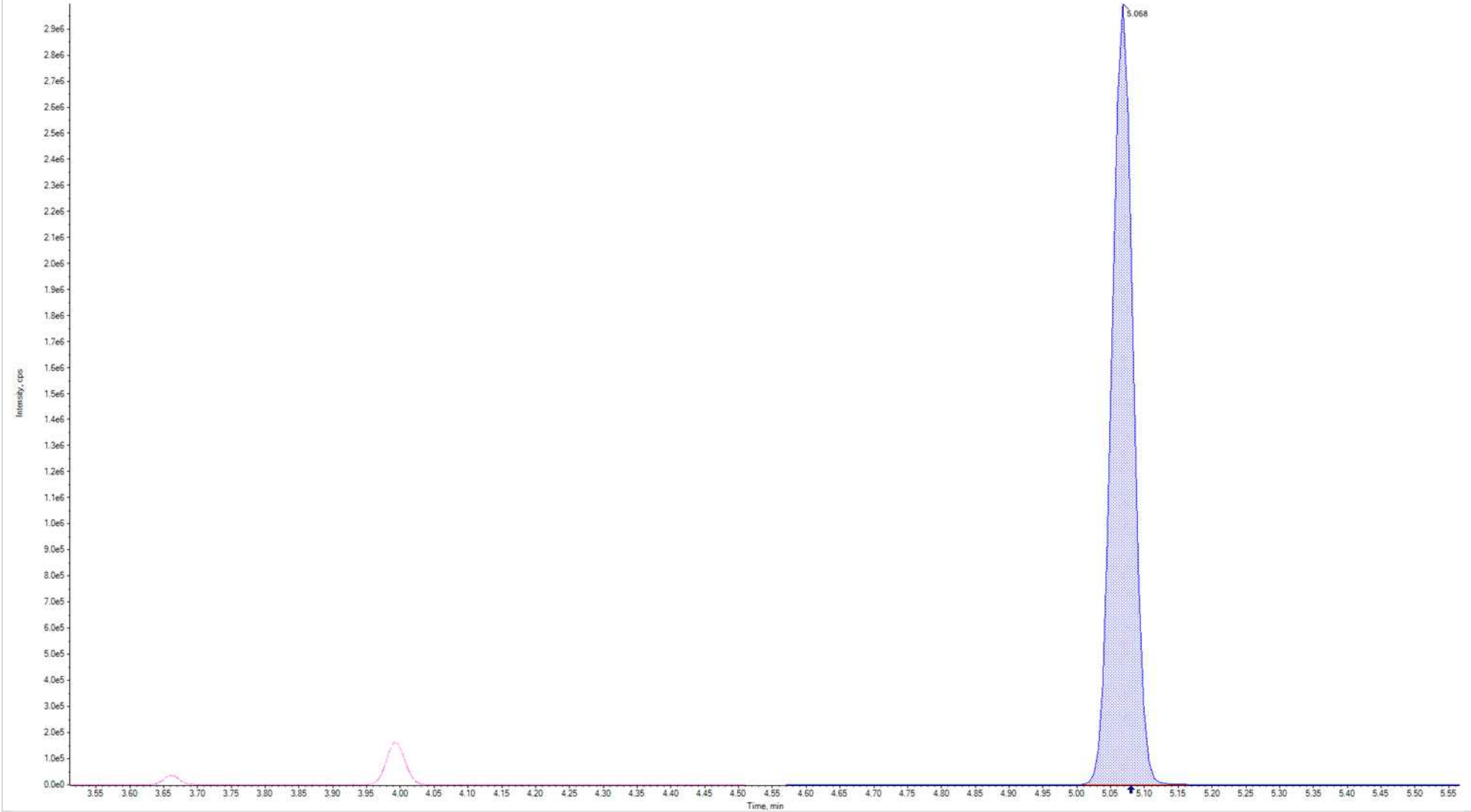
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

11Cl-PF3OUdS
Sample: IA1633STD-25 S/N:6638.3 Points Across peak:30



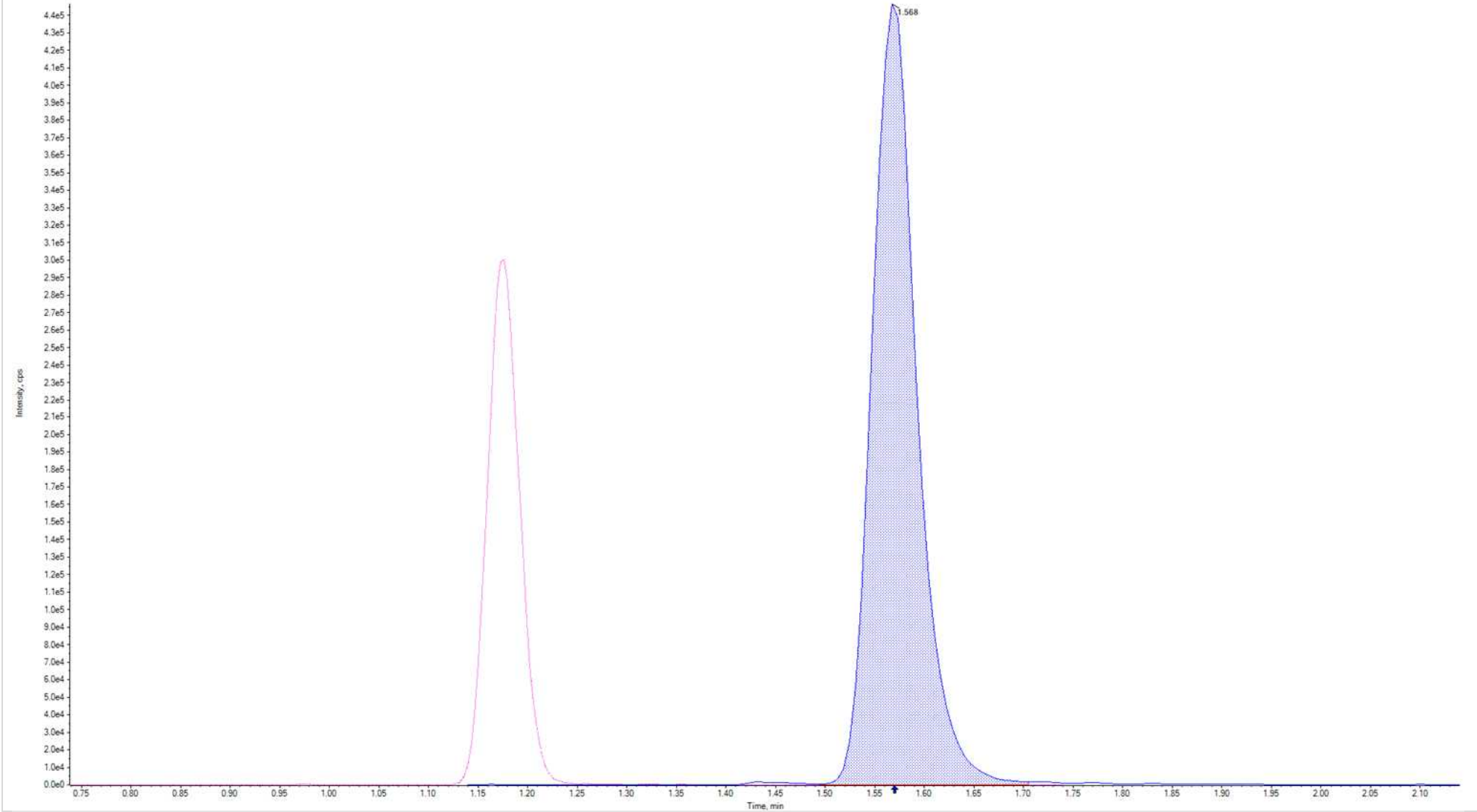
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_28.wiff2_7
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11Cl-PF3OUdS_2
Sample: IA1633STD-25 S/N:142684.5 Points Across peak:40



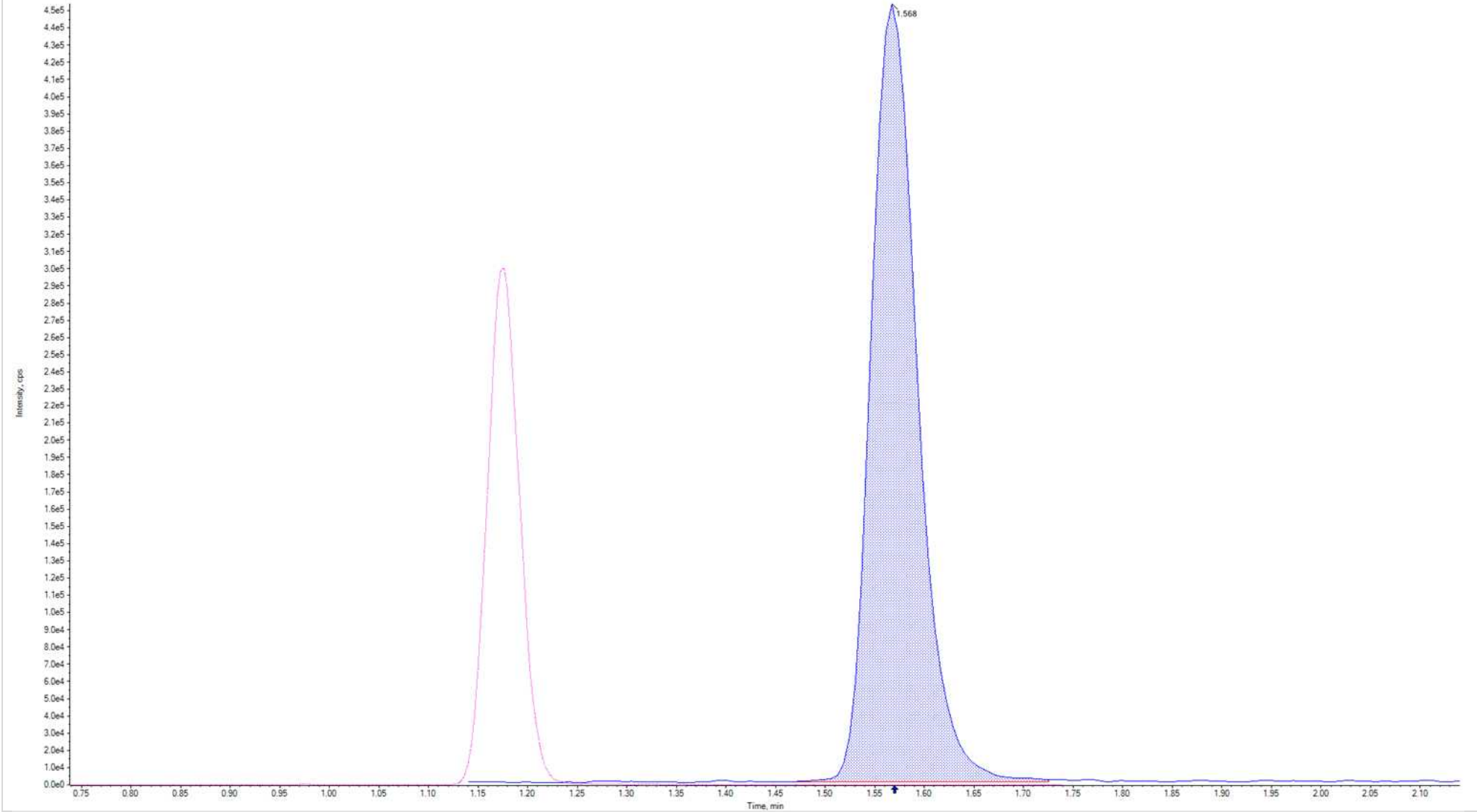
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Alpha Analytical LLC
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3:3FTCA
Sample: IA1633STD-25 S/N:3070.7 Points Across peak:35



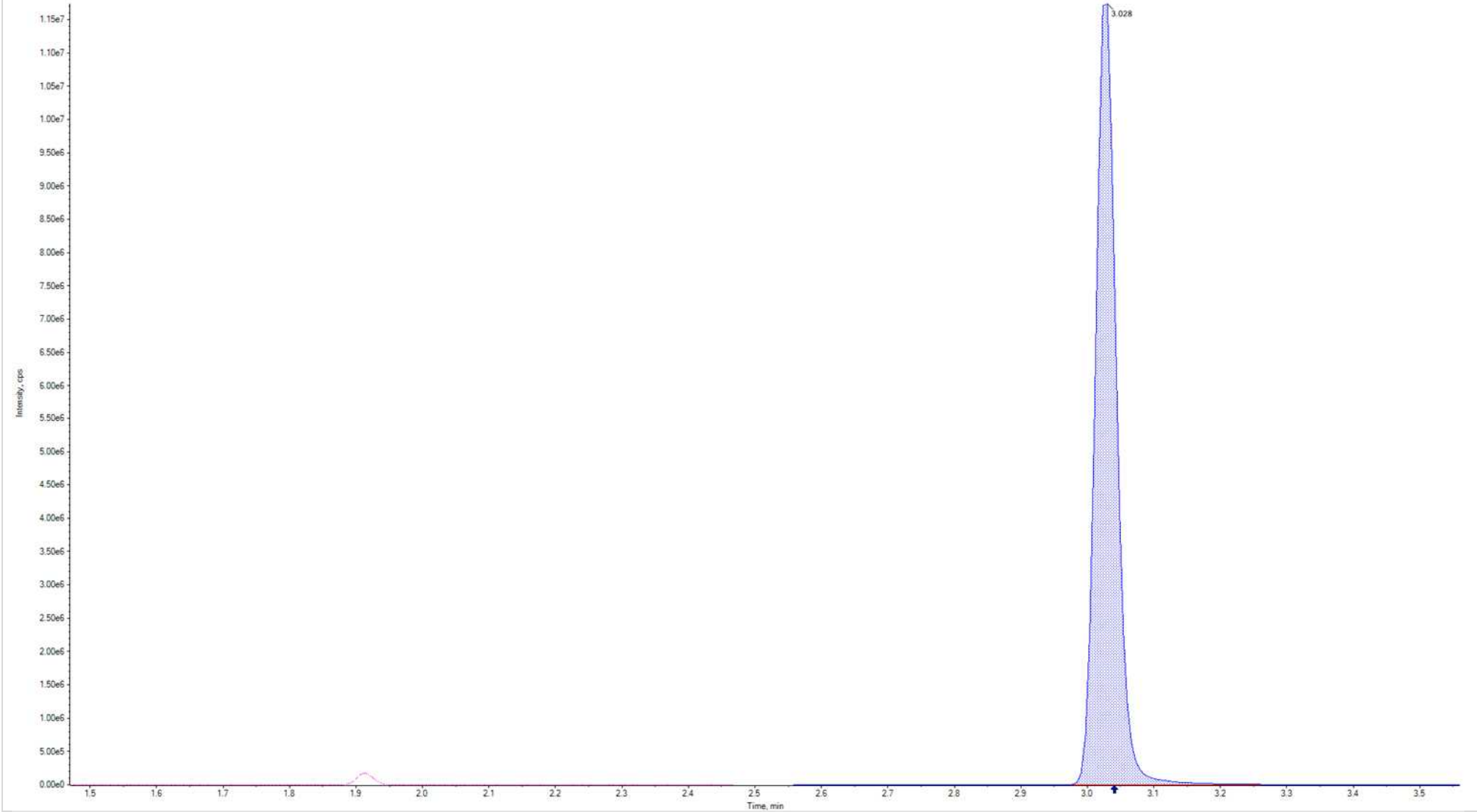
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Alpha Analytical LLC
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3:3FTCA_2
Sample: IA1633STD-25 S/N:1422.7 Points Across peak:43



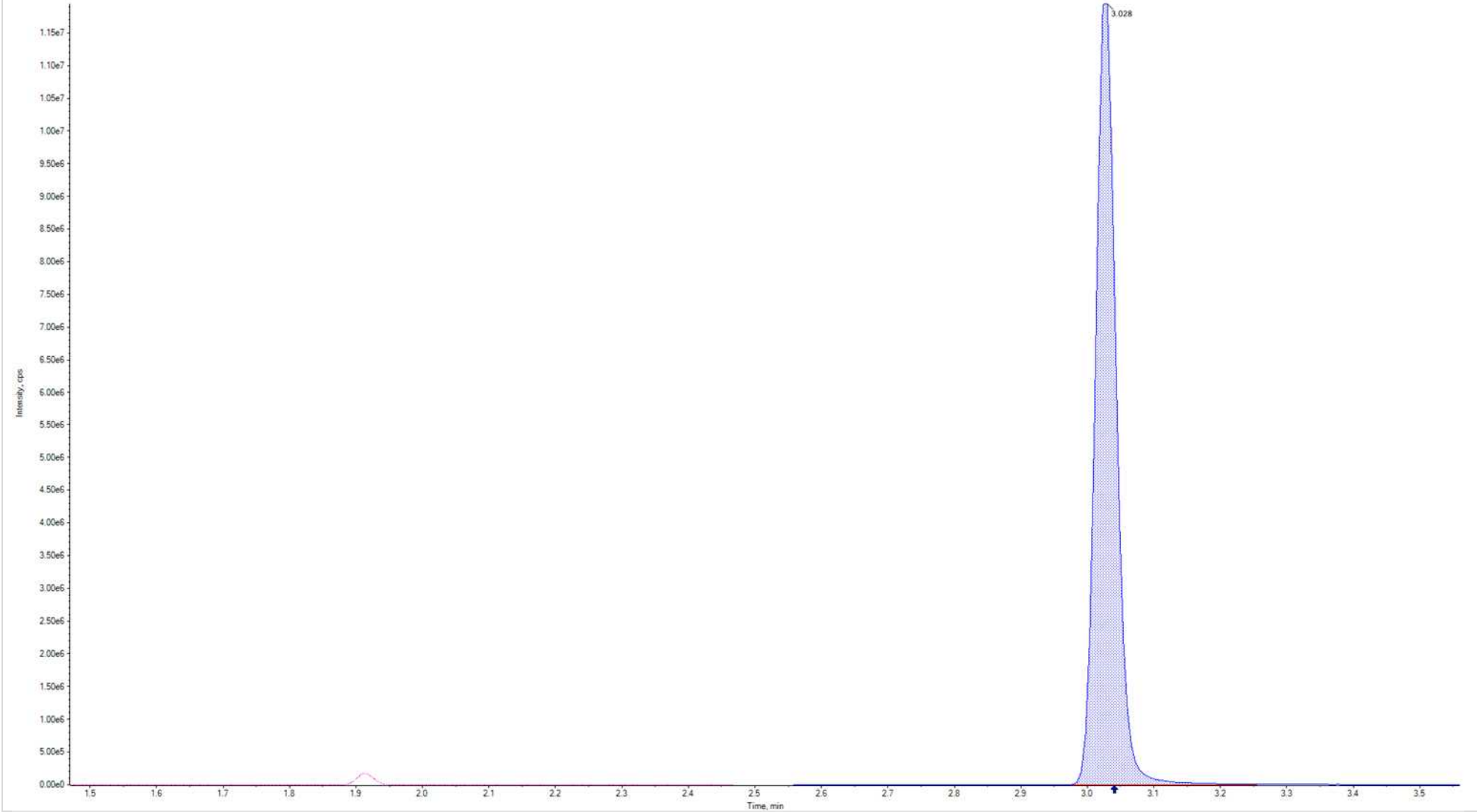
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5:3FTCA
Sample: IA1633STD-25 S/N:260743.8 Points Across peak:57



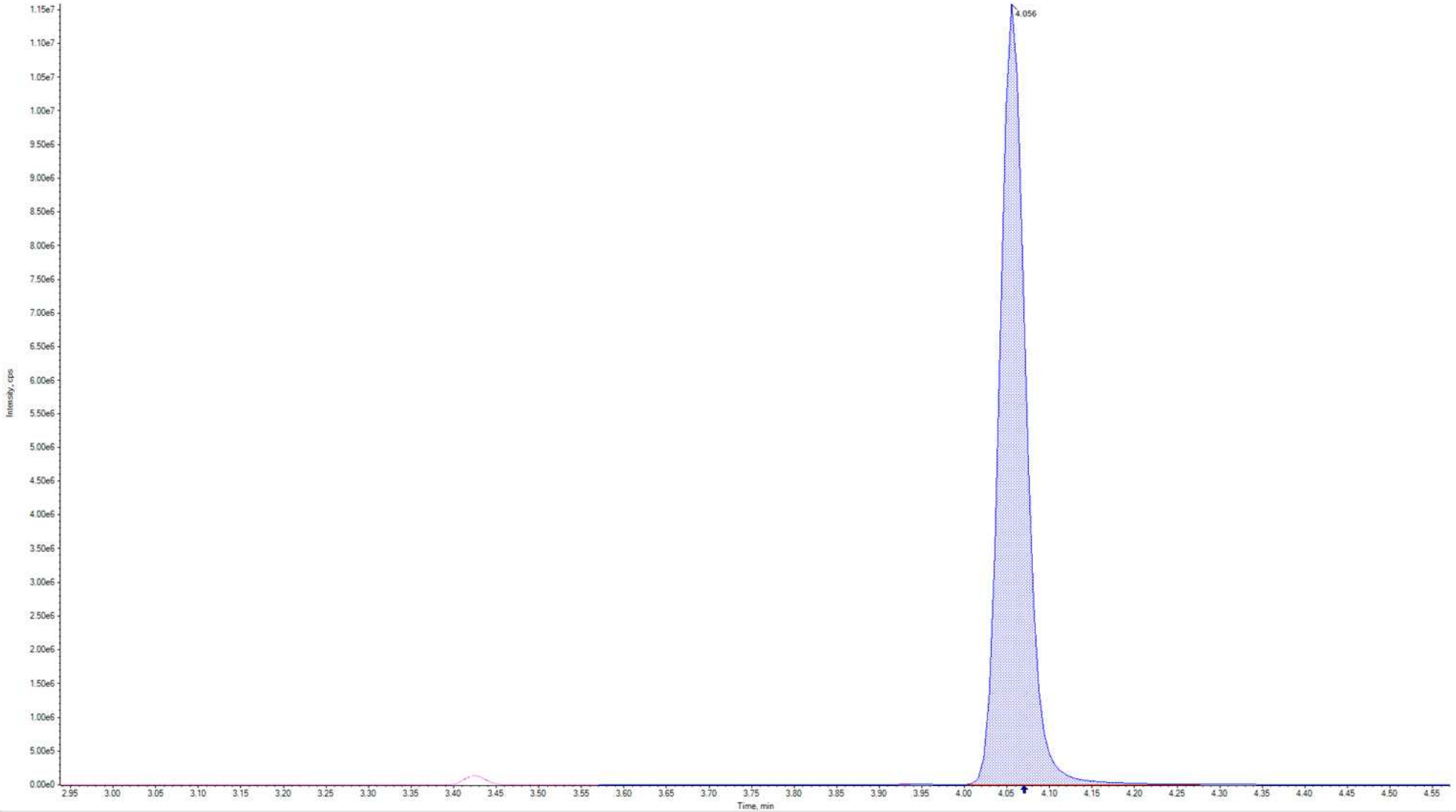
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5:3FTCA_2
Sample: IA1633STD-25 S/N:10624.7 Points Across peak:52



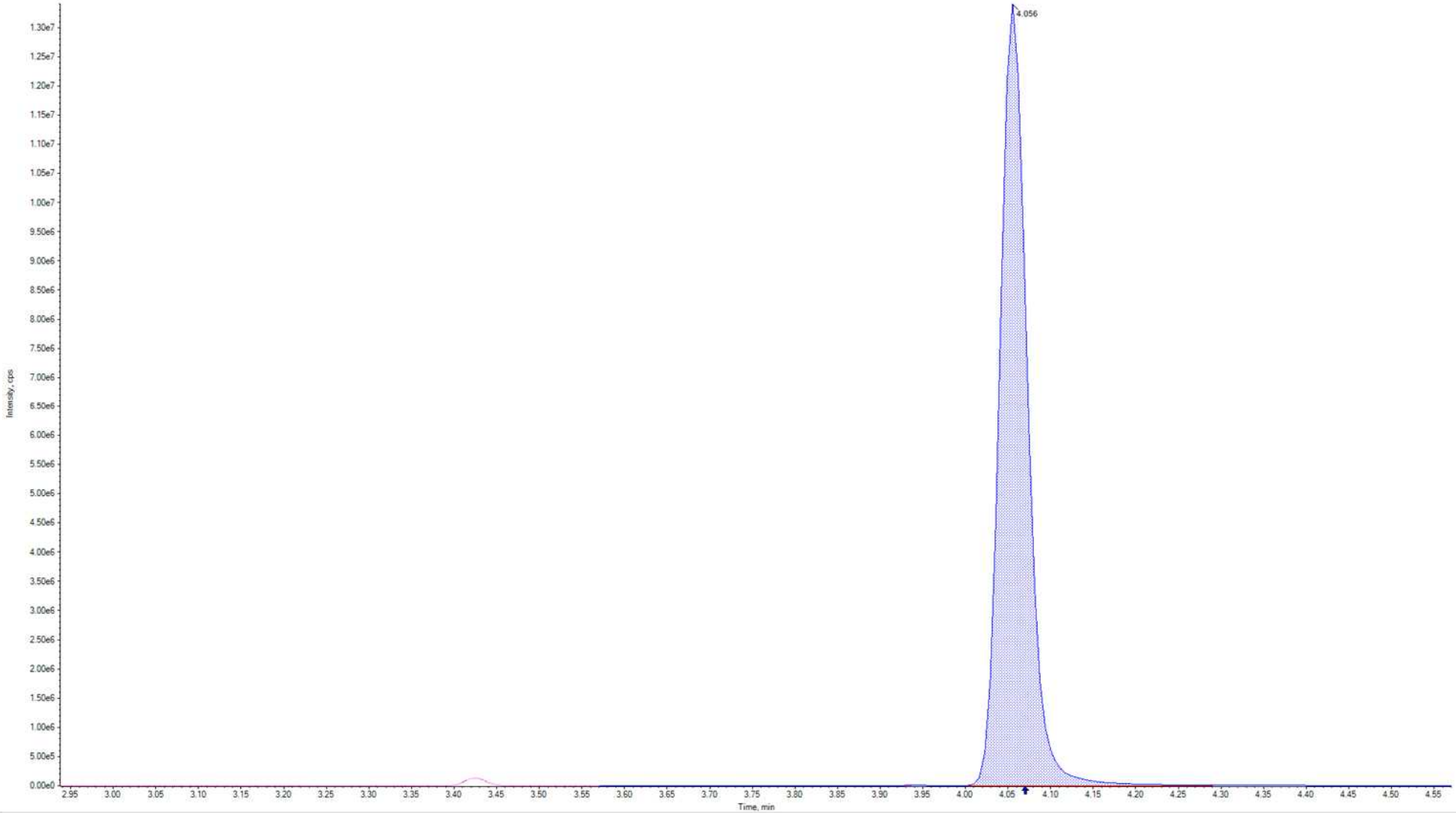
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7:3FTCA
Sample: IA1633STD-25 S/N:30004.9 Points Across peak:46



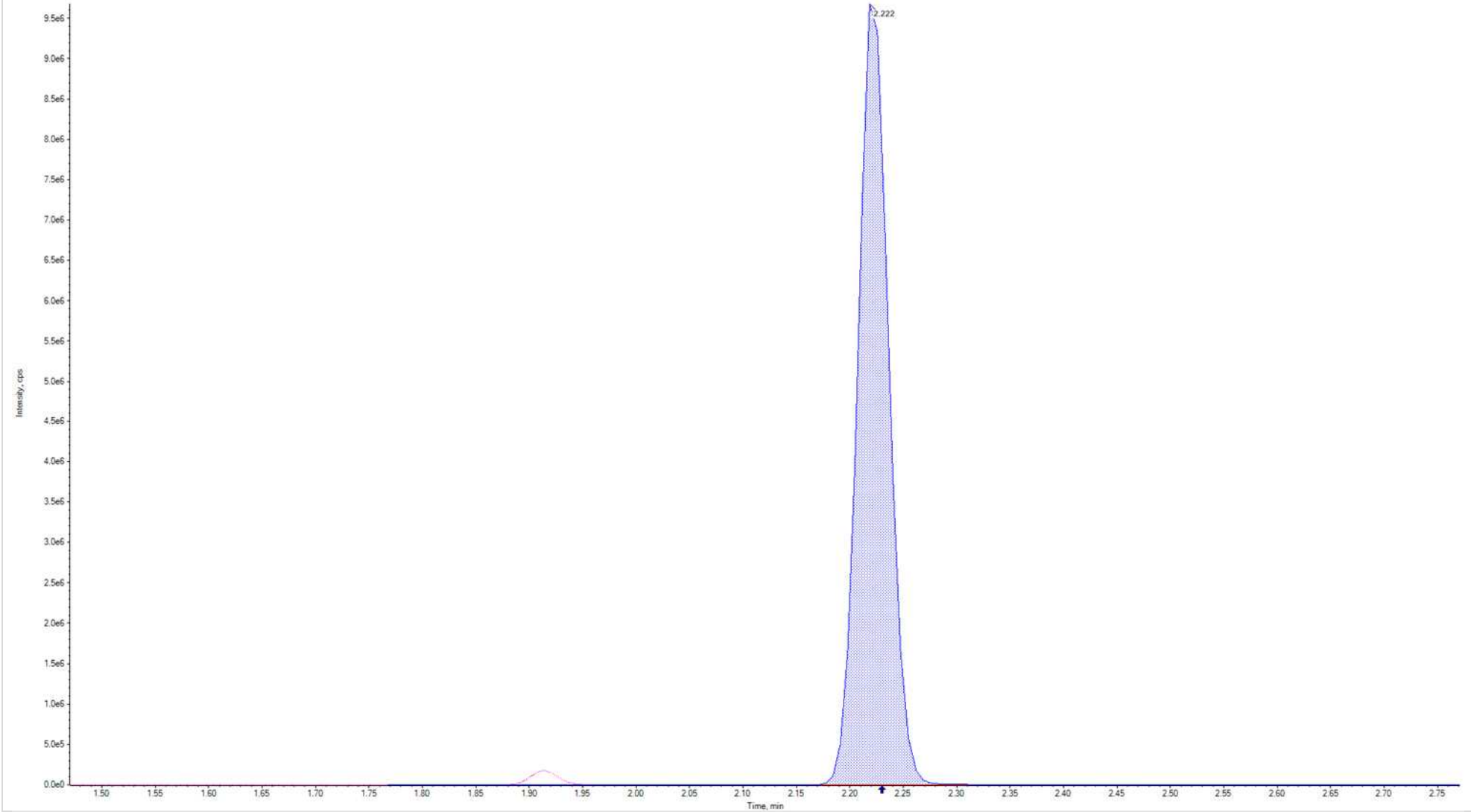
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Alpha Analytical LLC
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7:3FTCA_2
Sample: IA1633STD-25 S/N:26206.2 Points Across peak:48



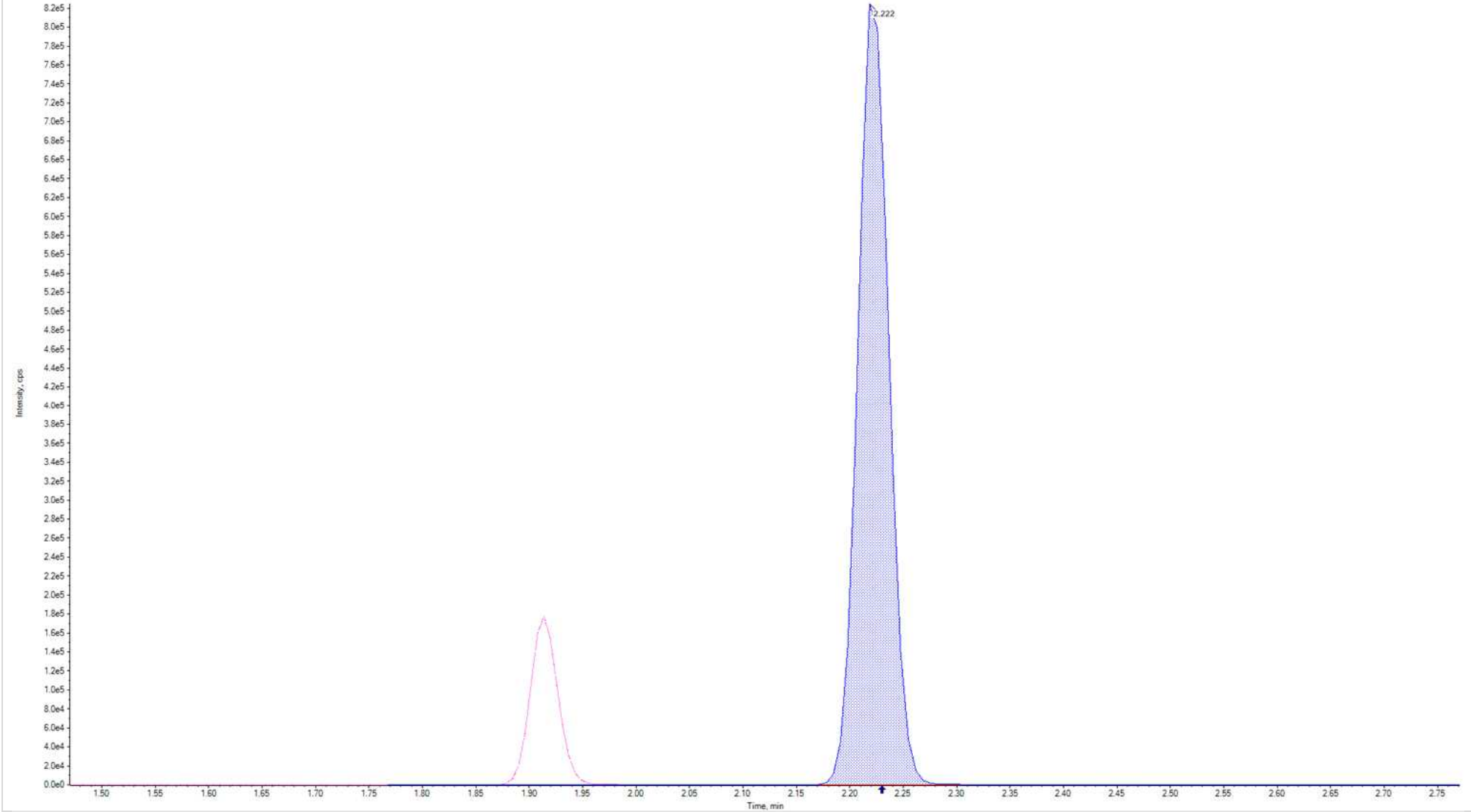
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Alpha Analytical LLC
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PFEESA
Sample: IA1633STD-25 S/N:9068.9 Points Across peak:32



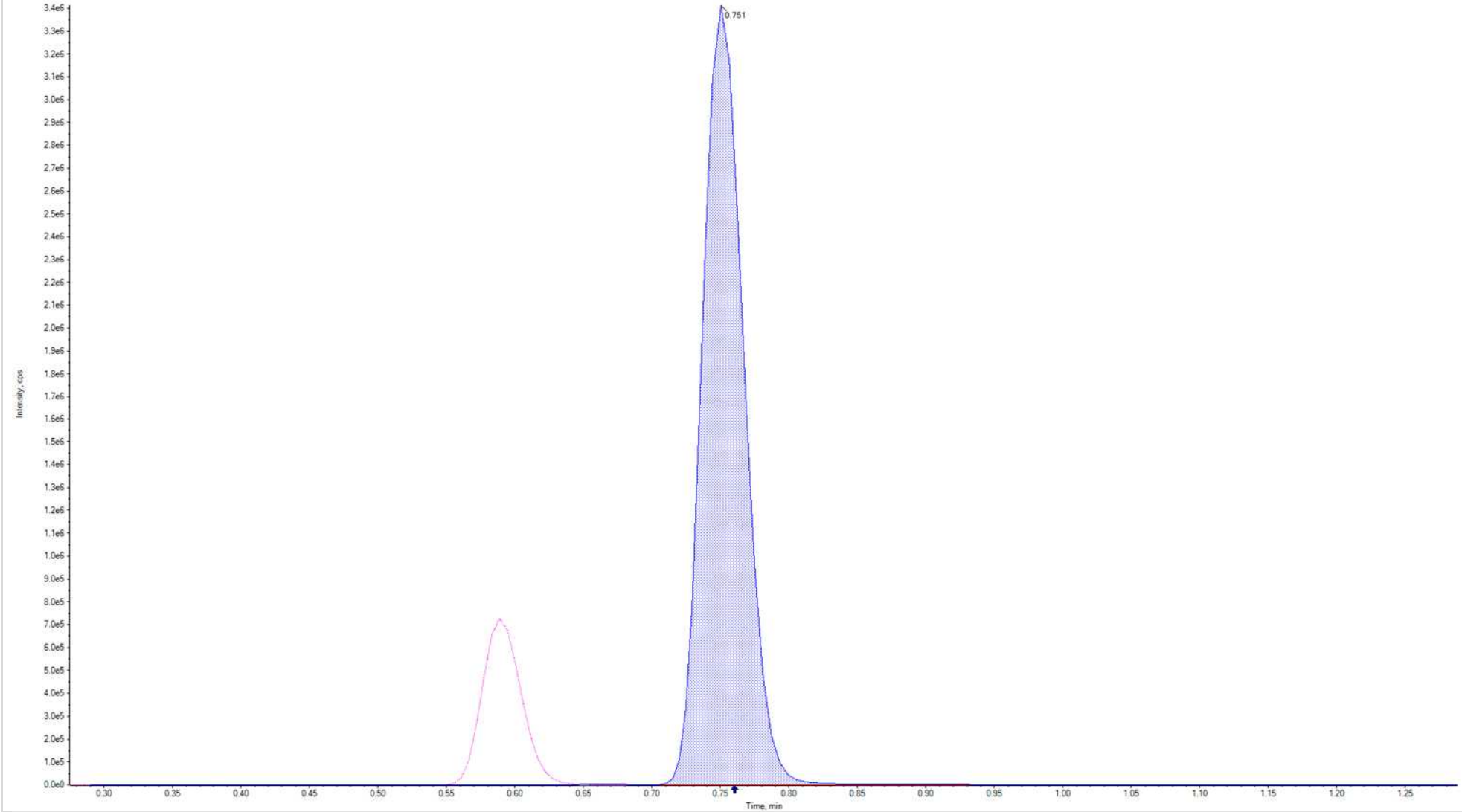
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Alpha Analytical LLC
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PFEESA_2
Sample: IA1633STD-25 S/N:18599.3 Points Across peak:30



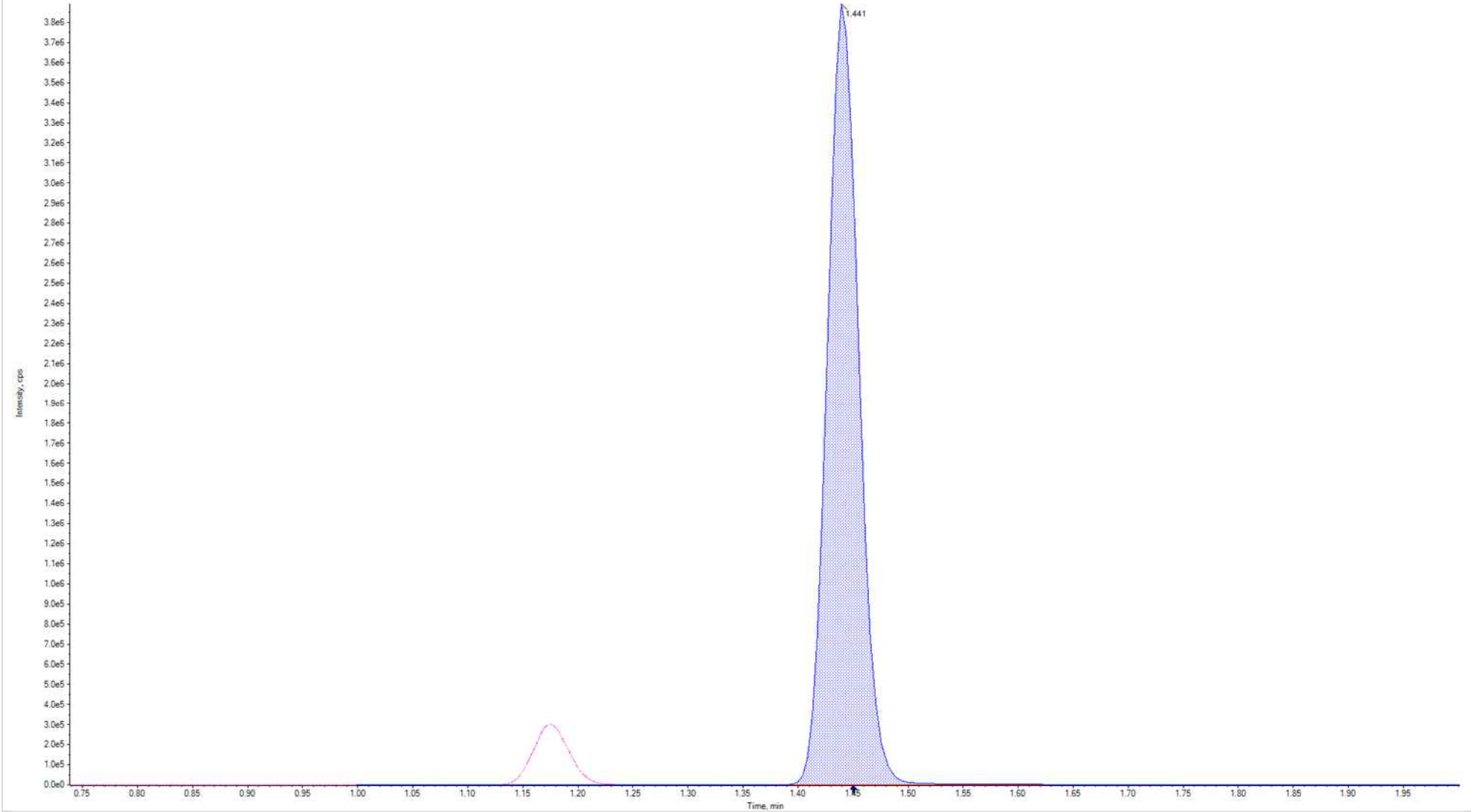
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PFMPA
Sample: IA1633STD-25 S/N:30761.7 Points Across peak:49



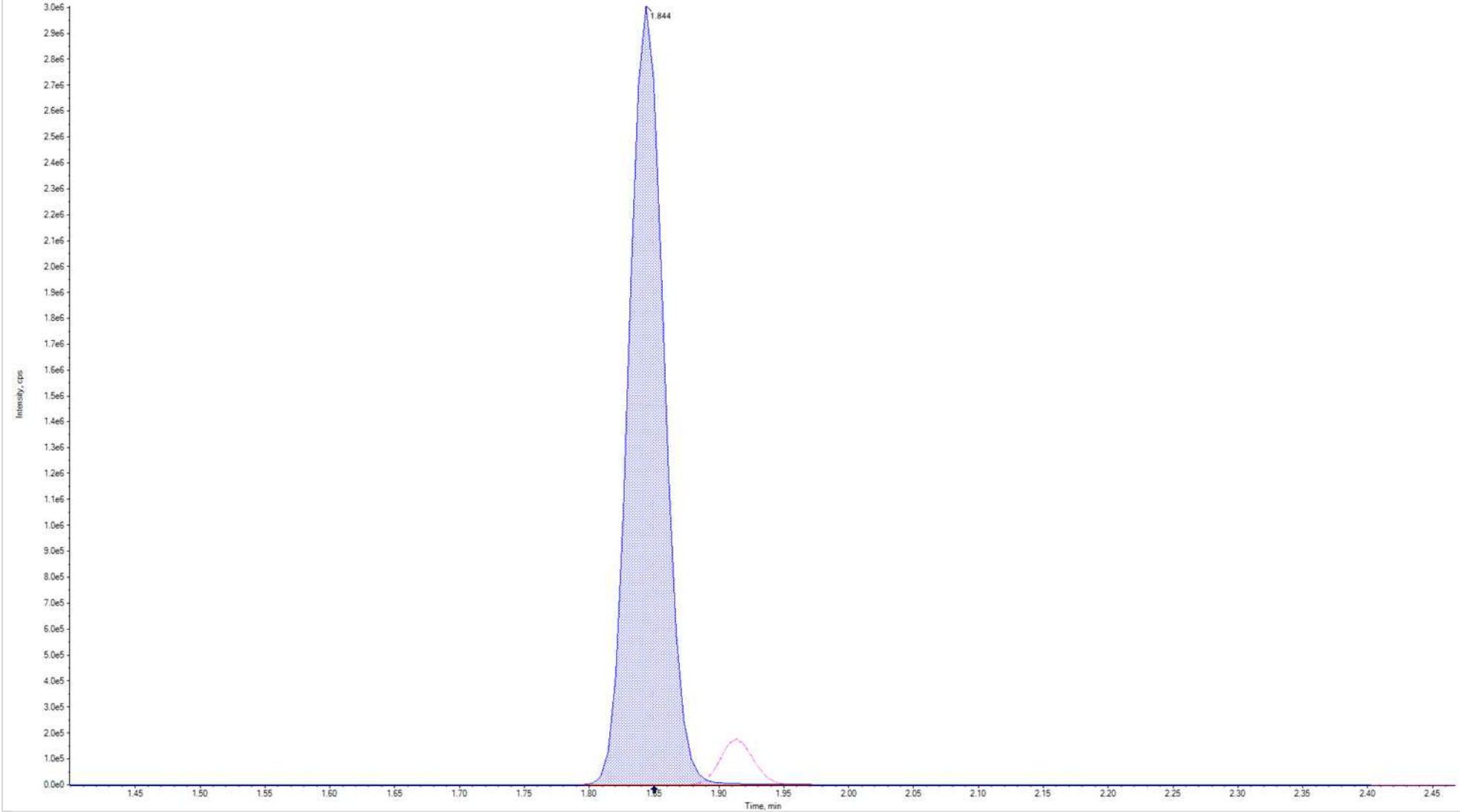
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PFMBA
Sample: IA1633STD-25 S/N:41277.8 Points Across peak:56



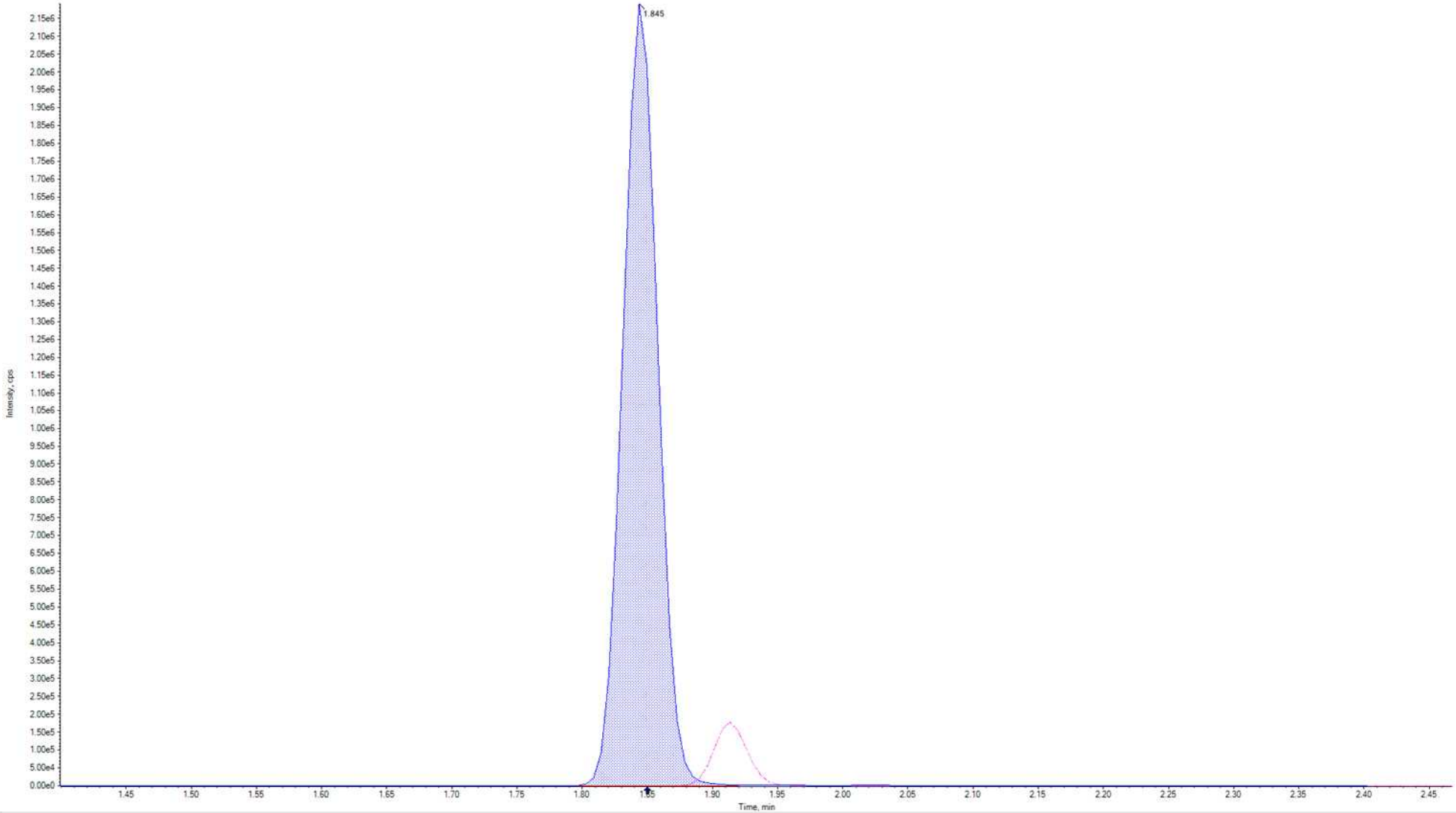
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Alpha Analytical LLC
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NFDHA
Sample: IA1633STD-25 S/N:82847.6 Points Across peak:40



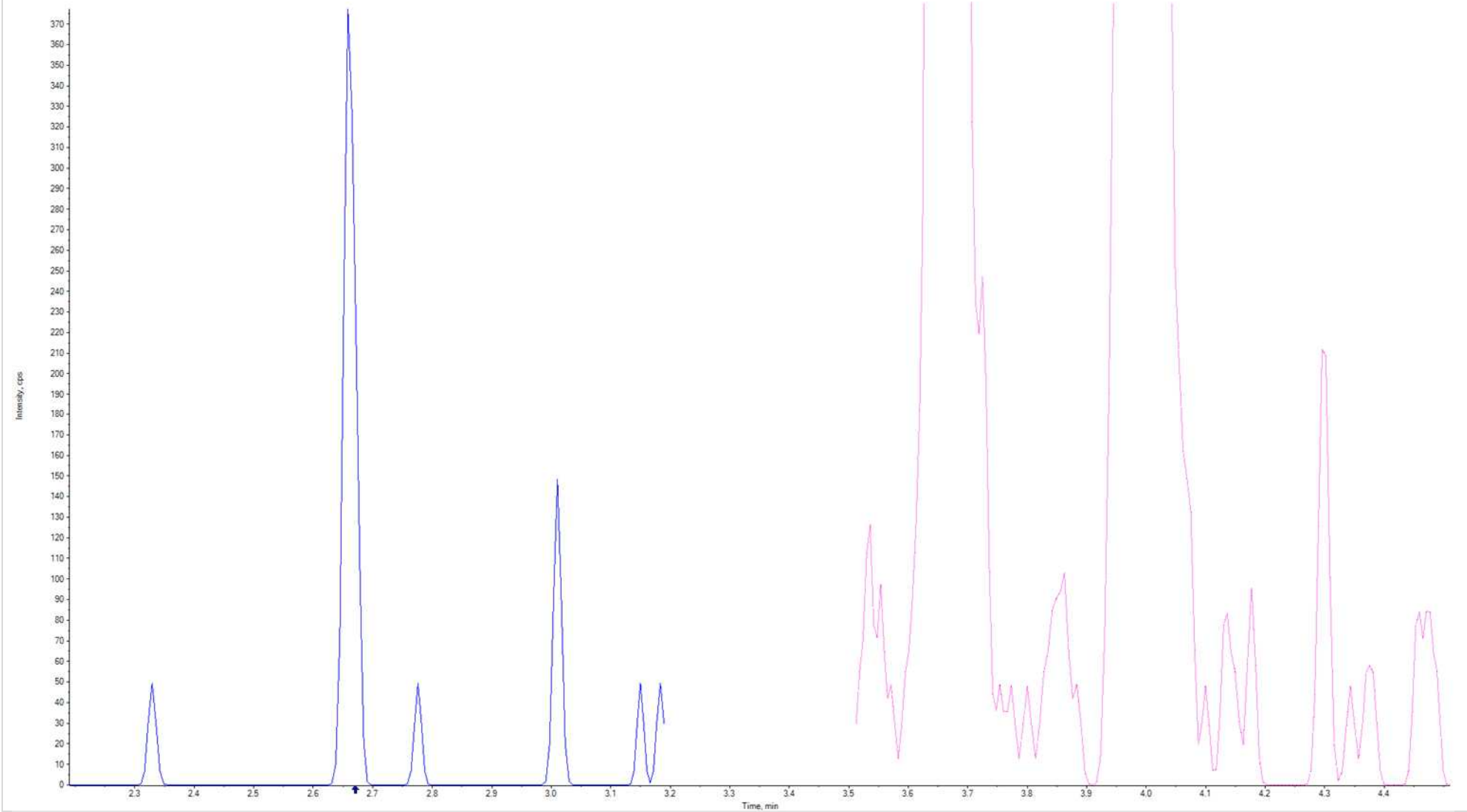
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NFDHA_2
Sample: IA1633STD-25 S/N:29464.8 Points Across peak:28



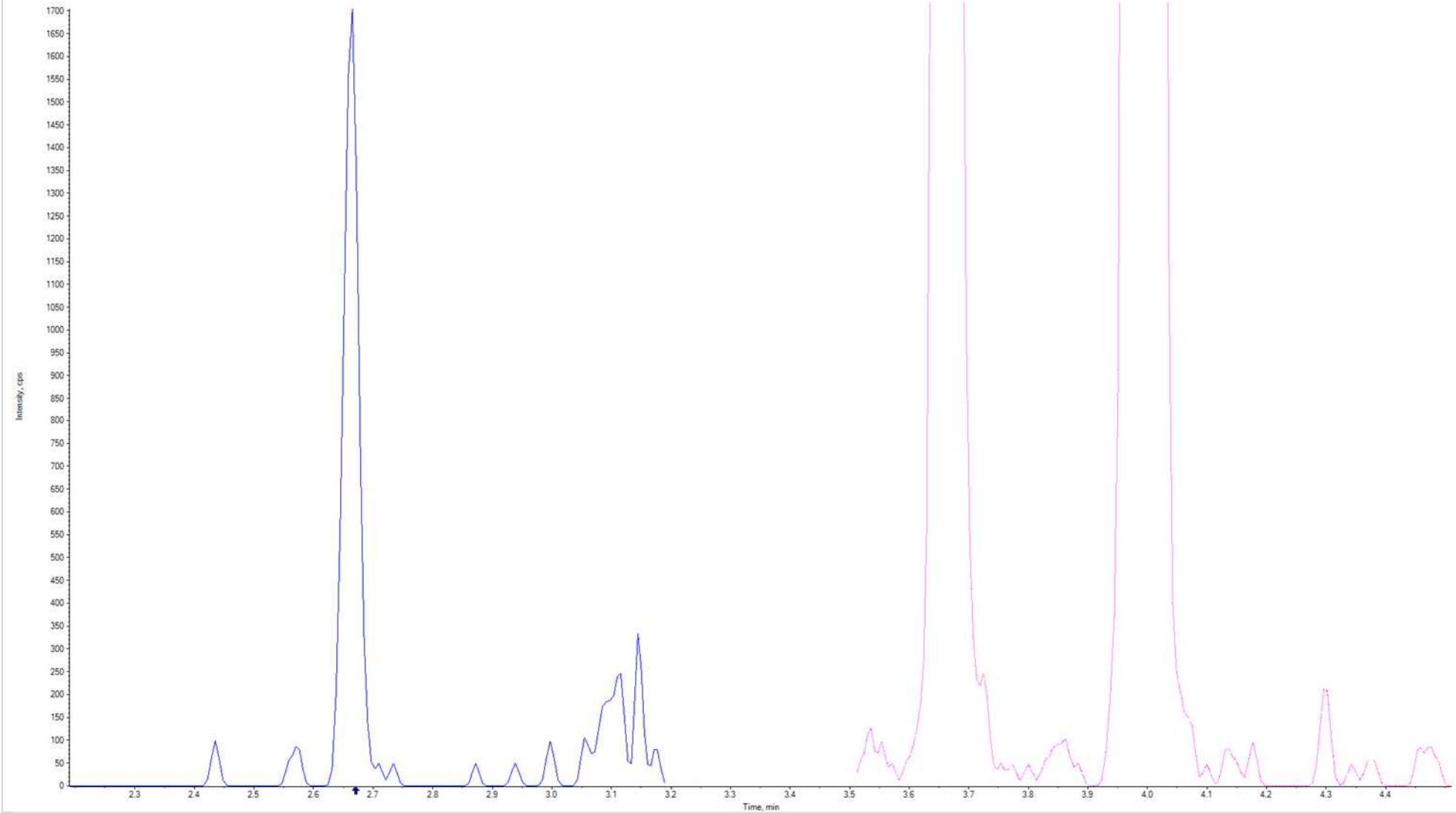
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TDCA
Sample: IA1633STD-25 S/N:N/A Points Across peak:N/A



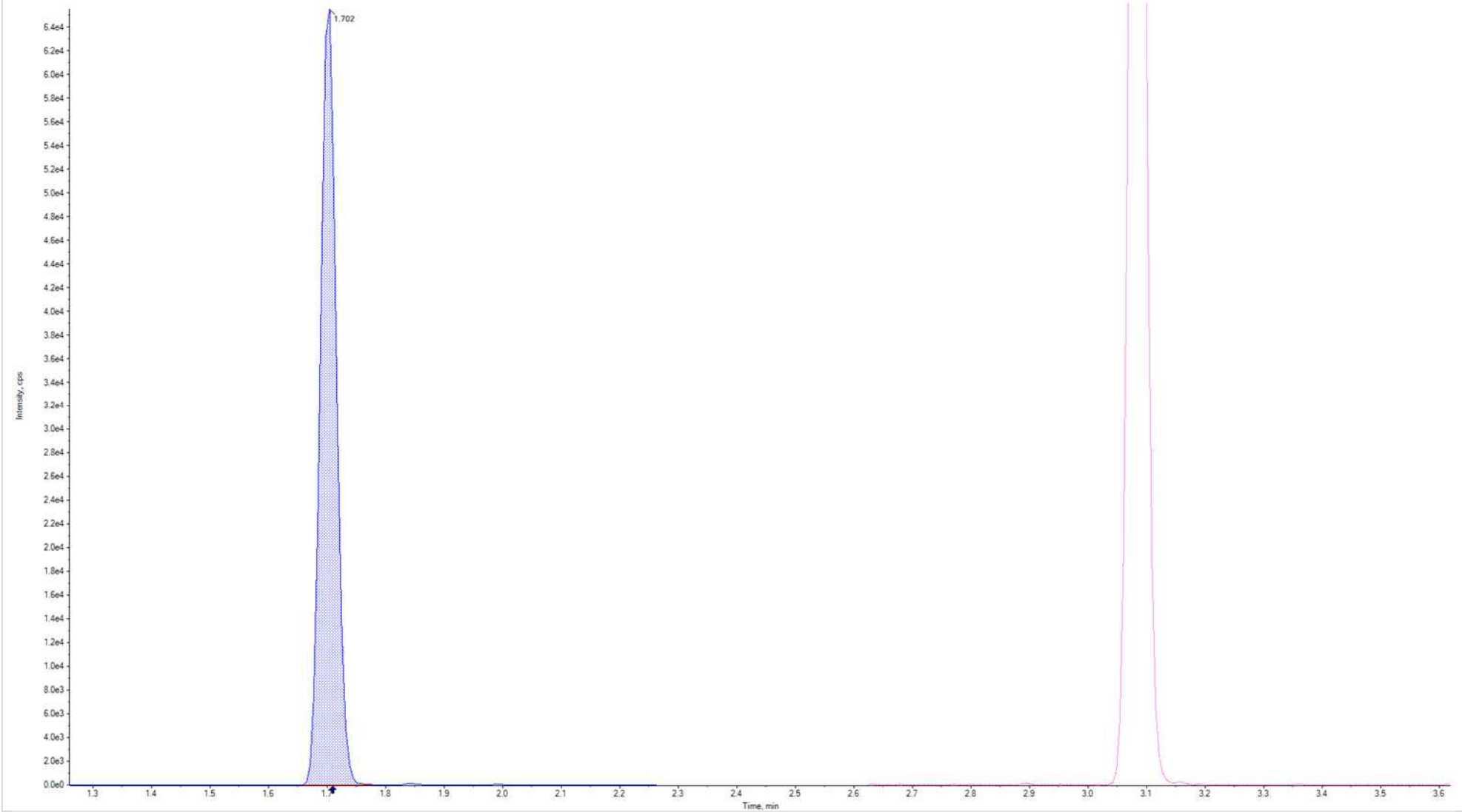
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TDCA_2
Sample: IA1633STD-25 S/N:N/A Points Across peak:N/A



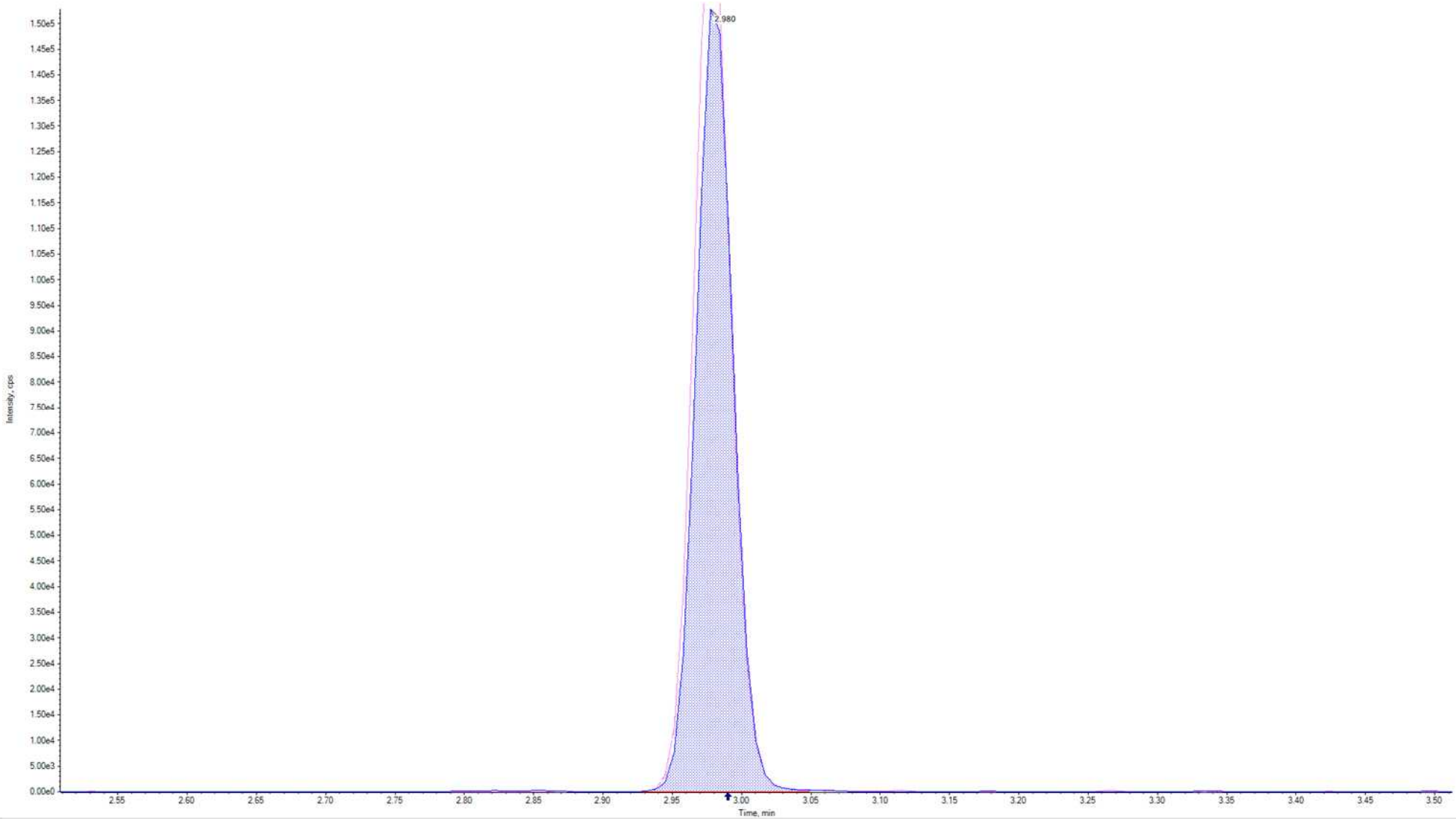
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13C2D4-4:2FTS
Sample: IA1633STD-25 S/N:2463.7 Points Across peak:28



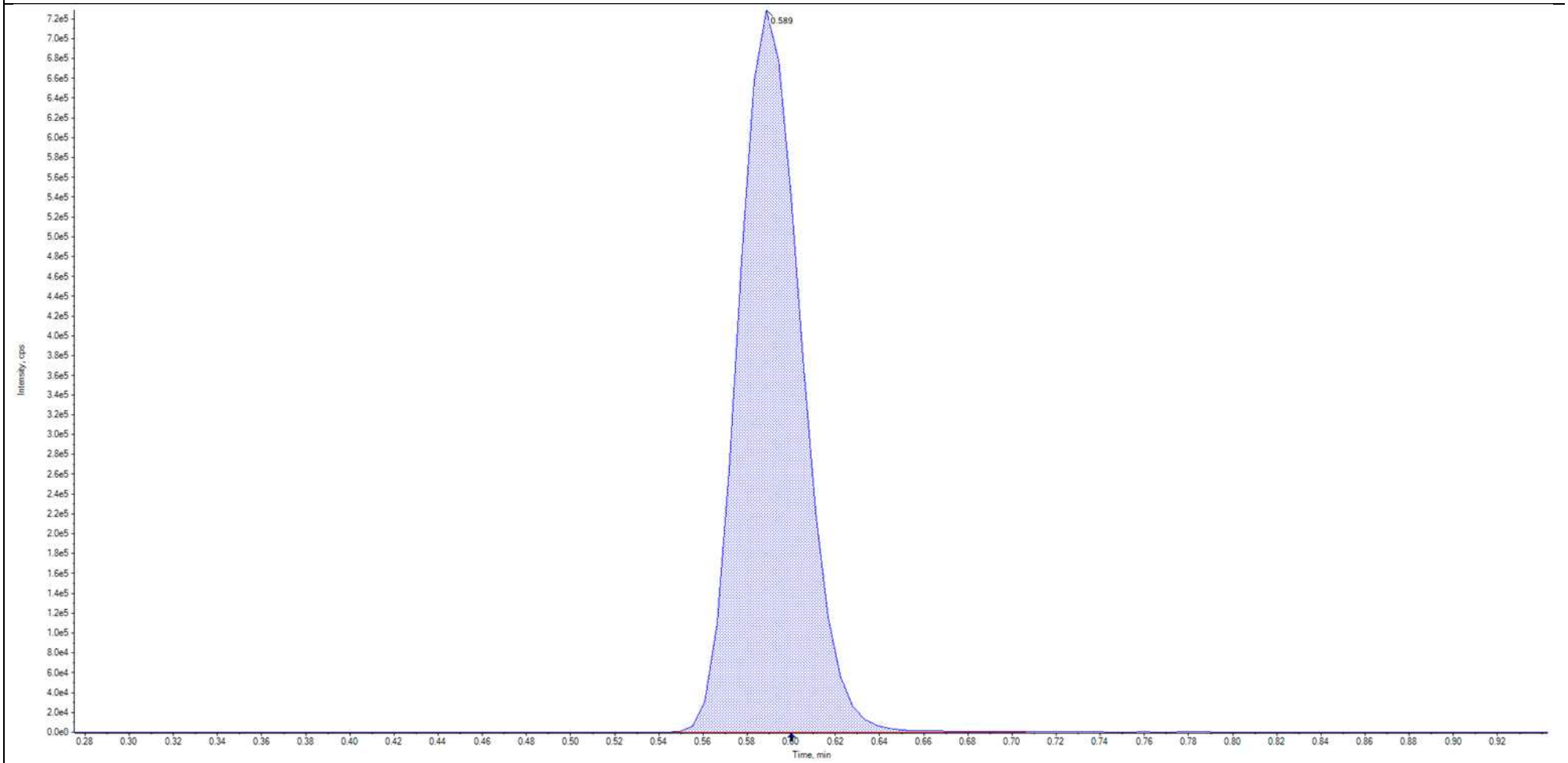
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13C2-PFOA
Sample: IA1633STD-25 S/N:3447.5 Points Across peak:22

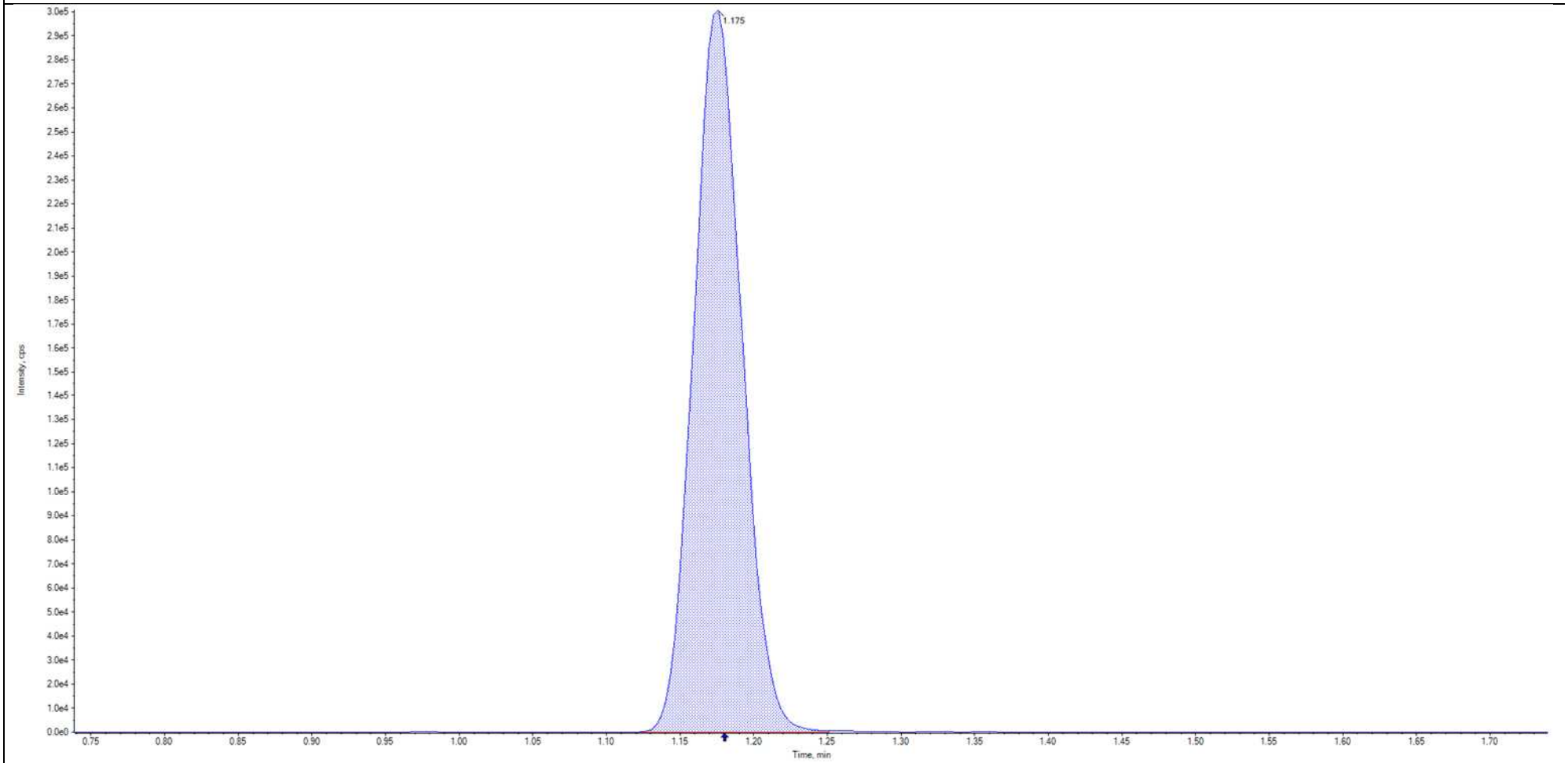


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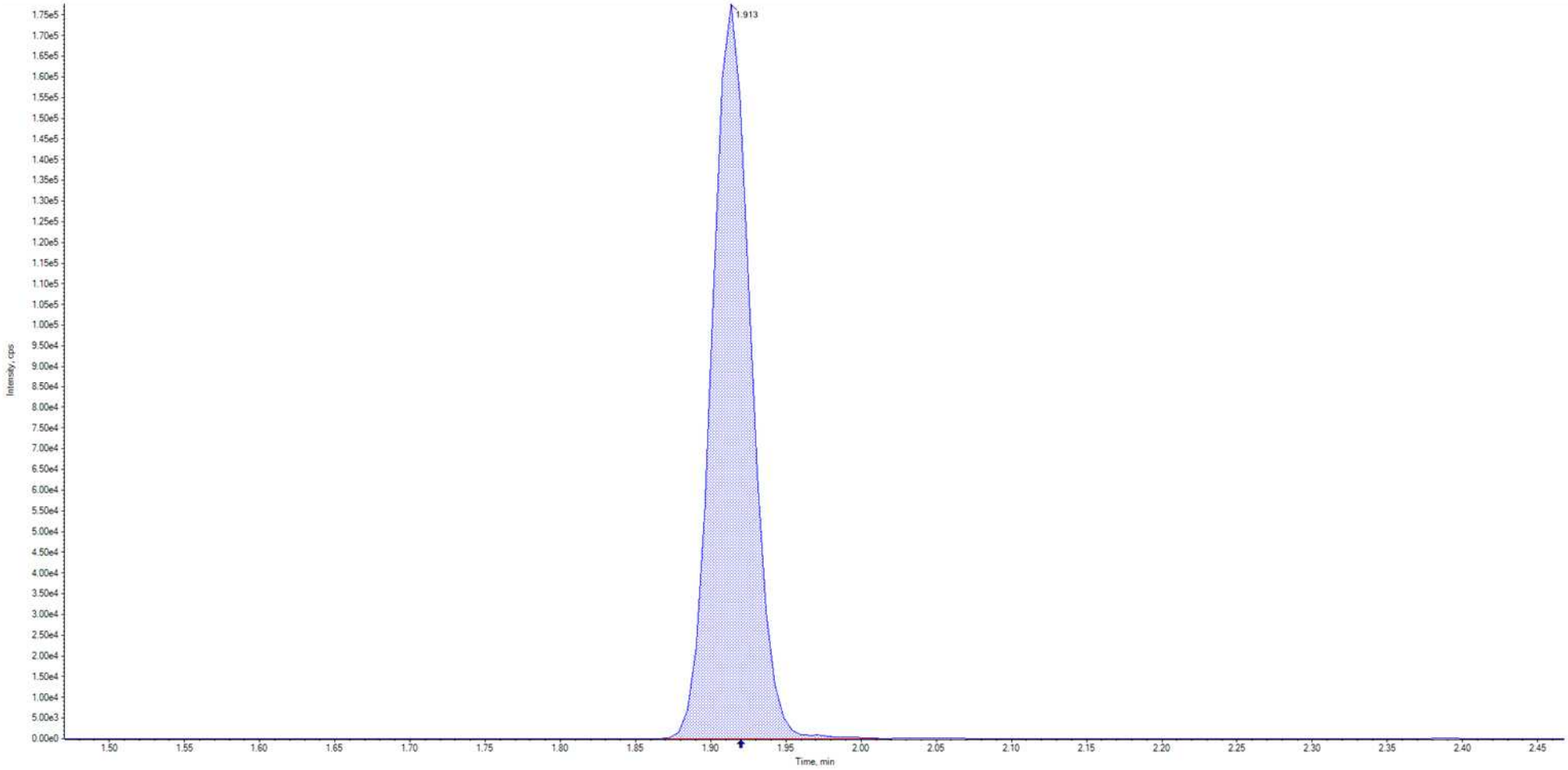
13C4-PFBA
Sample: IA1633STD-25



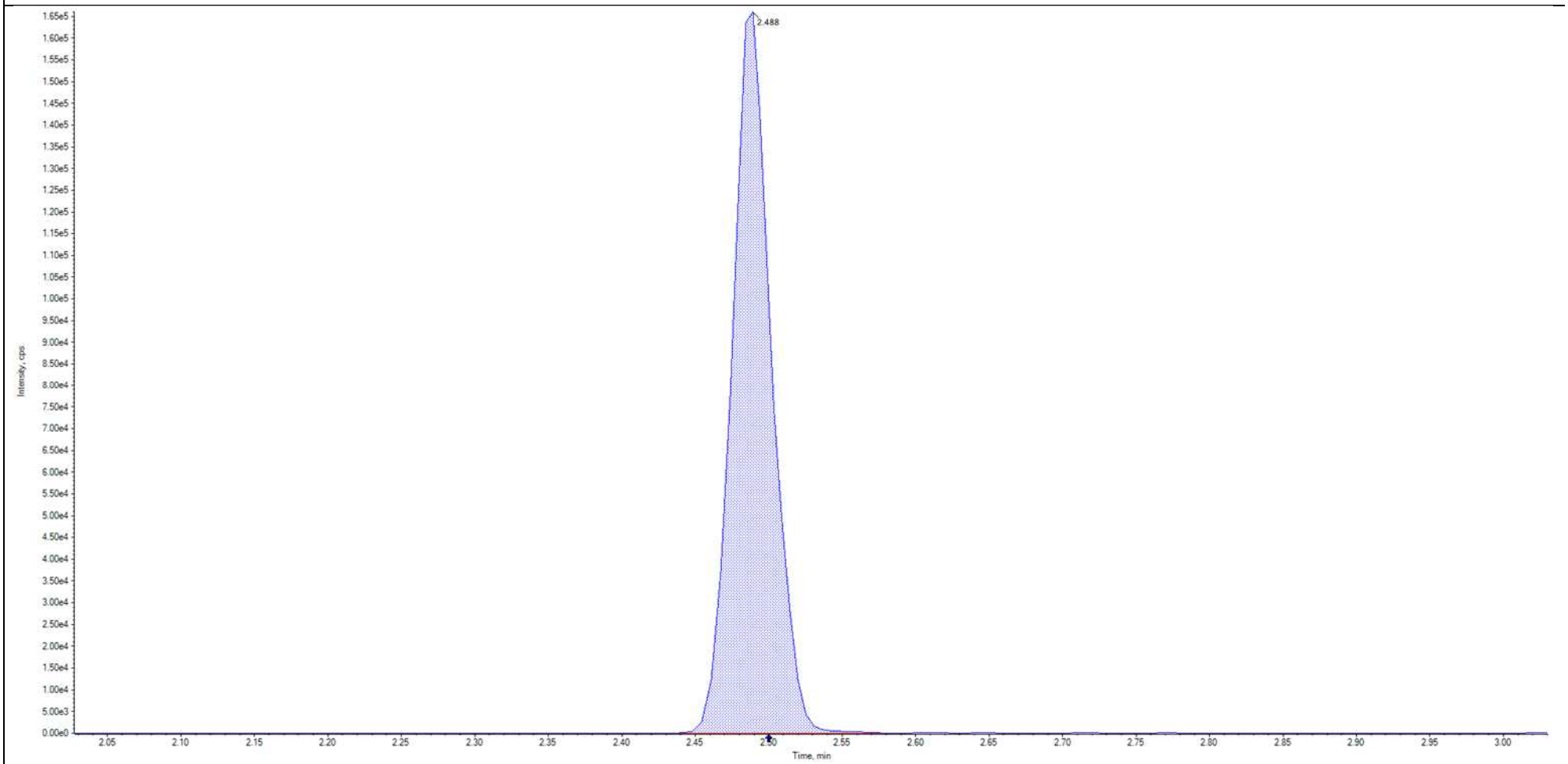
13C5-PFPeA
Sample: IA1633STD-25



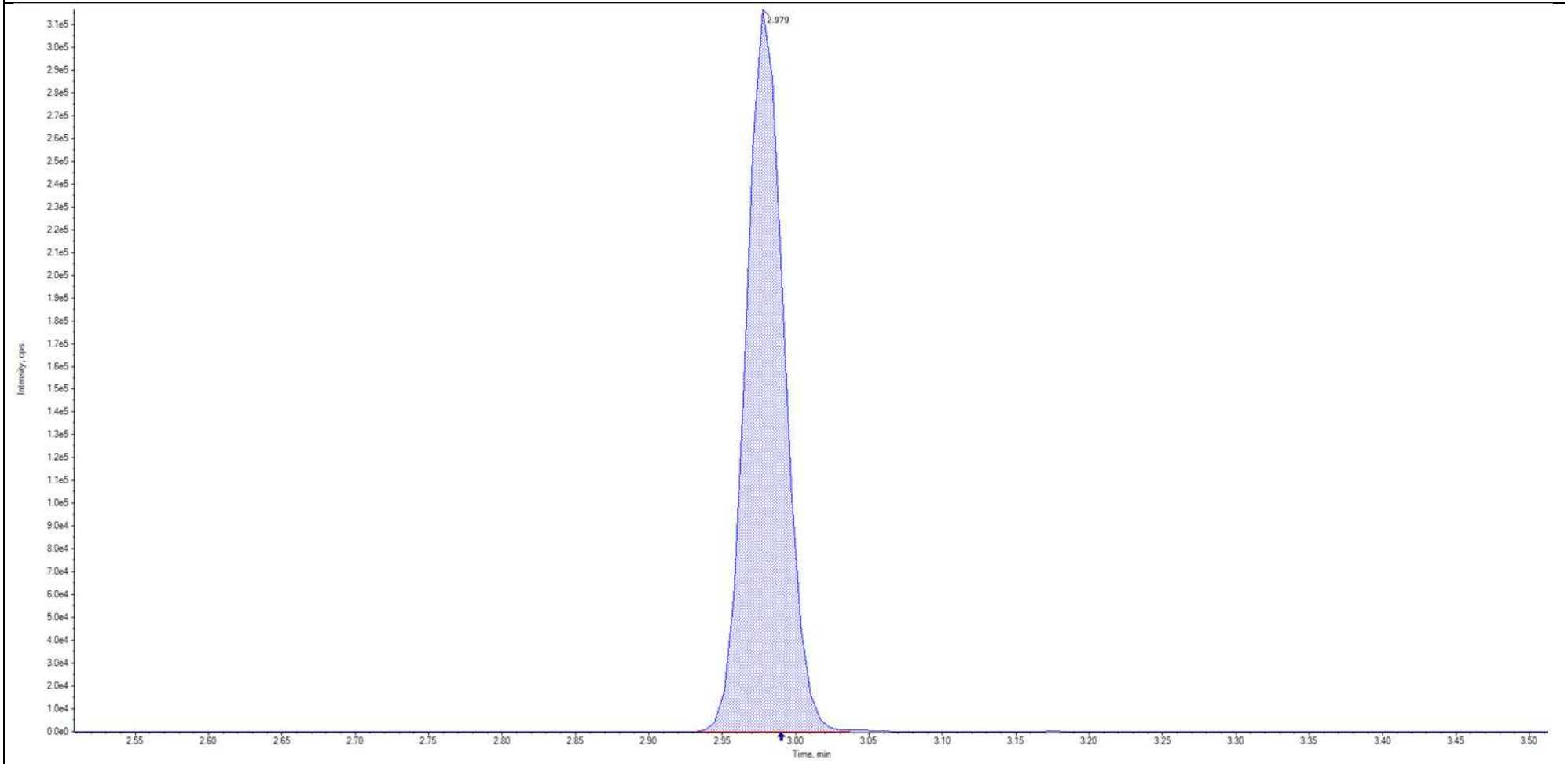
13C5-PFHxA
Sample: IA1633STD-25



13C4-PFHpA
Sample: IA1633STD-25

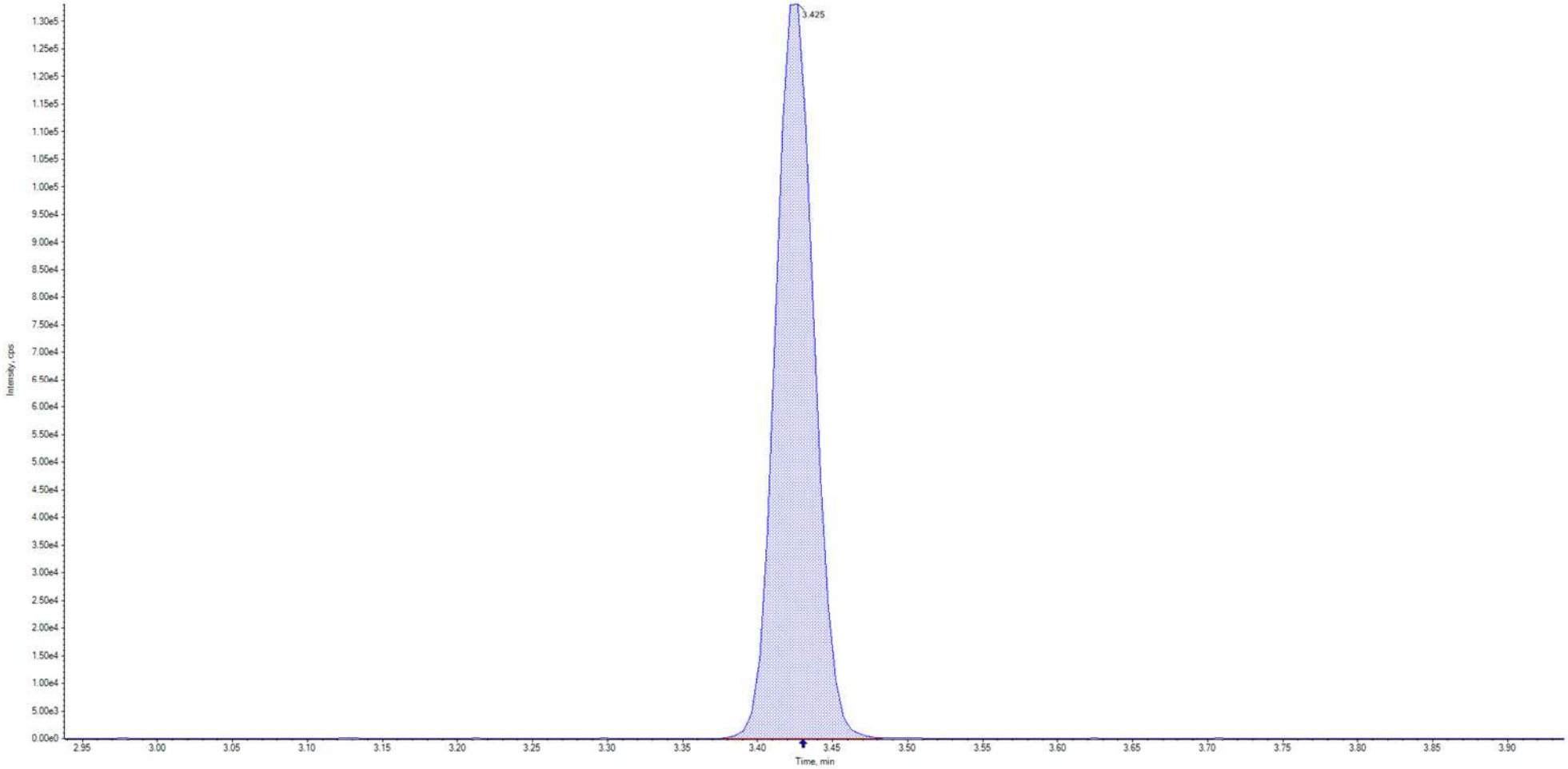


13C8-PFOA
Sample: IA1633STD-25



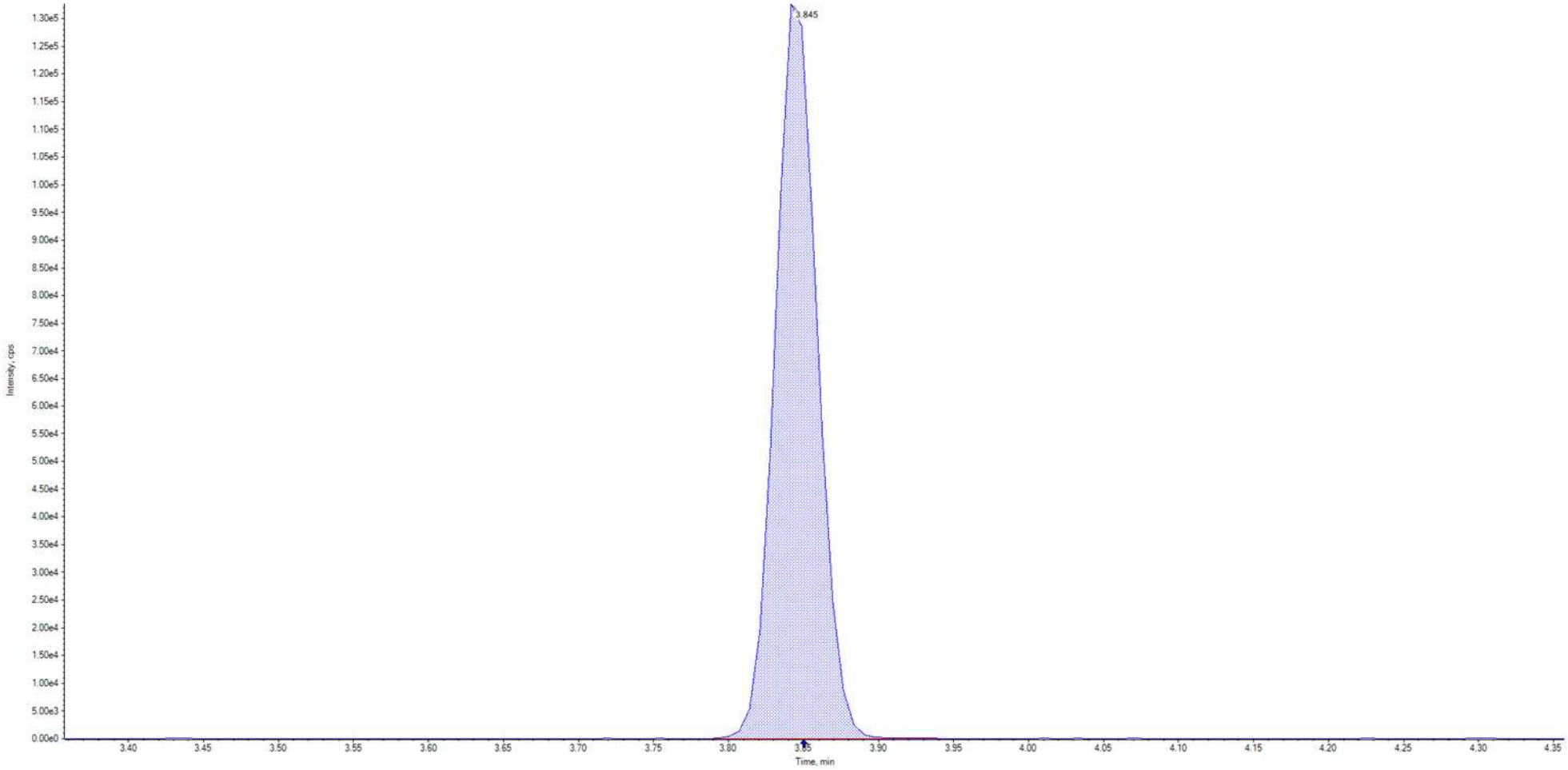
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13C9-PFNA
Sample: IA1633STD-25

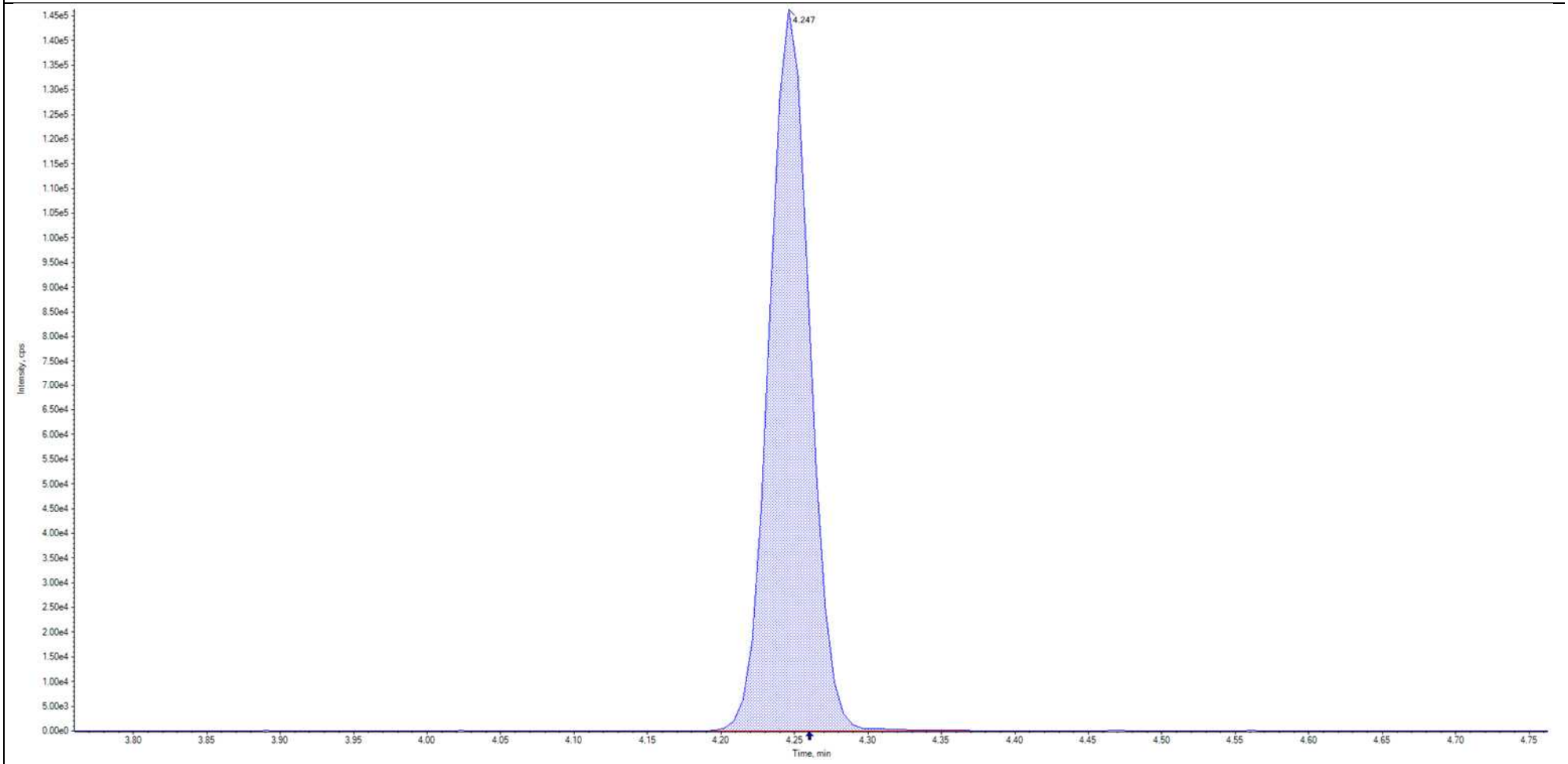


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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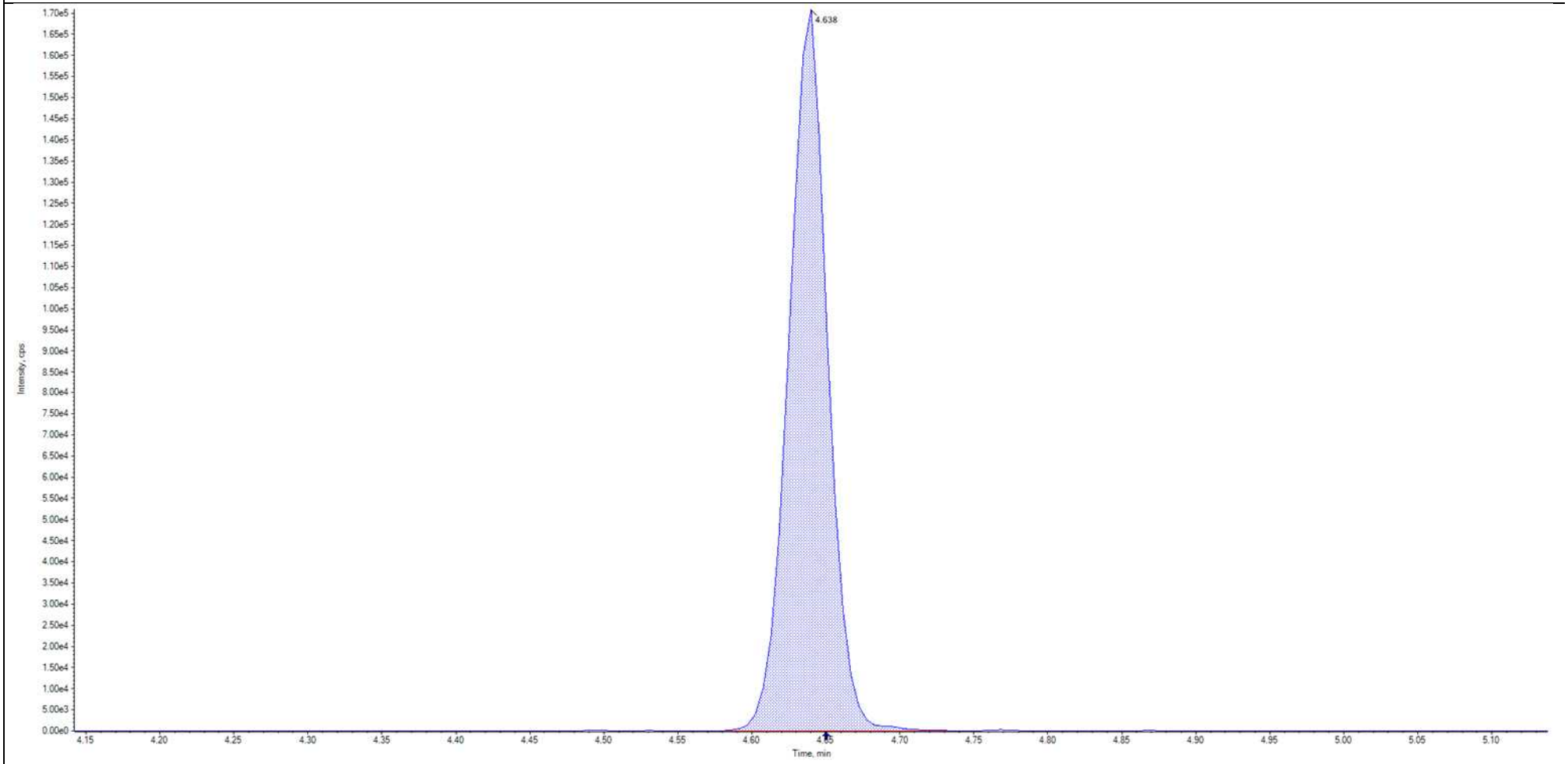
13C6-PFDA
Sample: IA1633STD-25



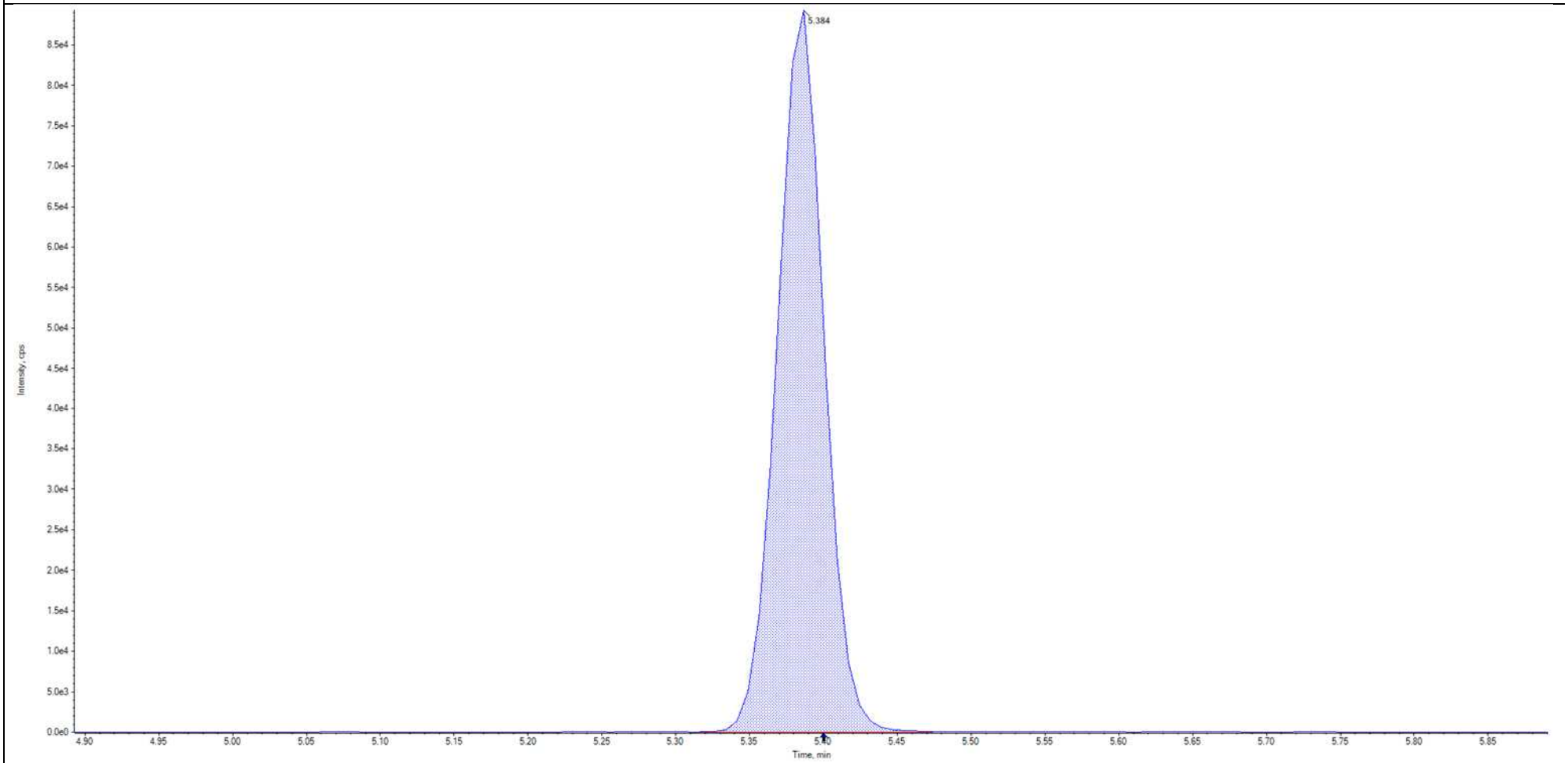
13C7-PFUnA
Sample: IA1633STD-25



13C2-PFDoA
Sample: IA1633STD-25

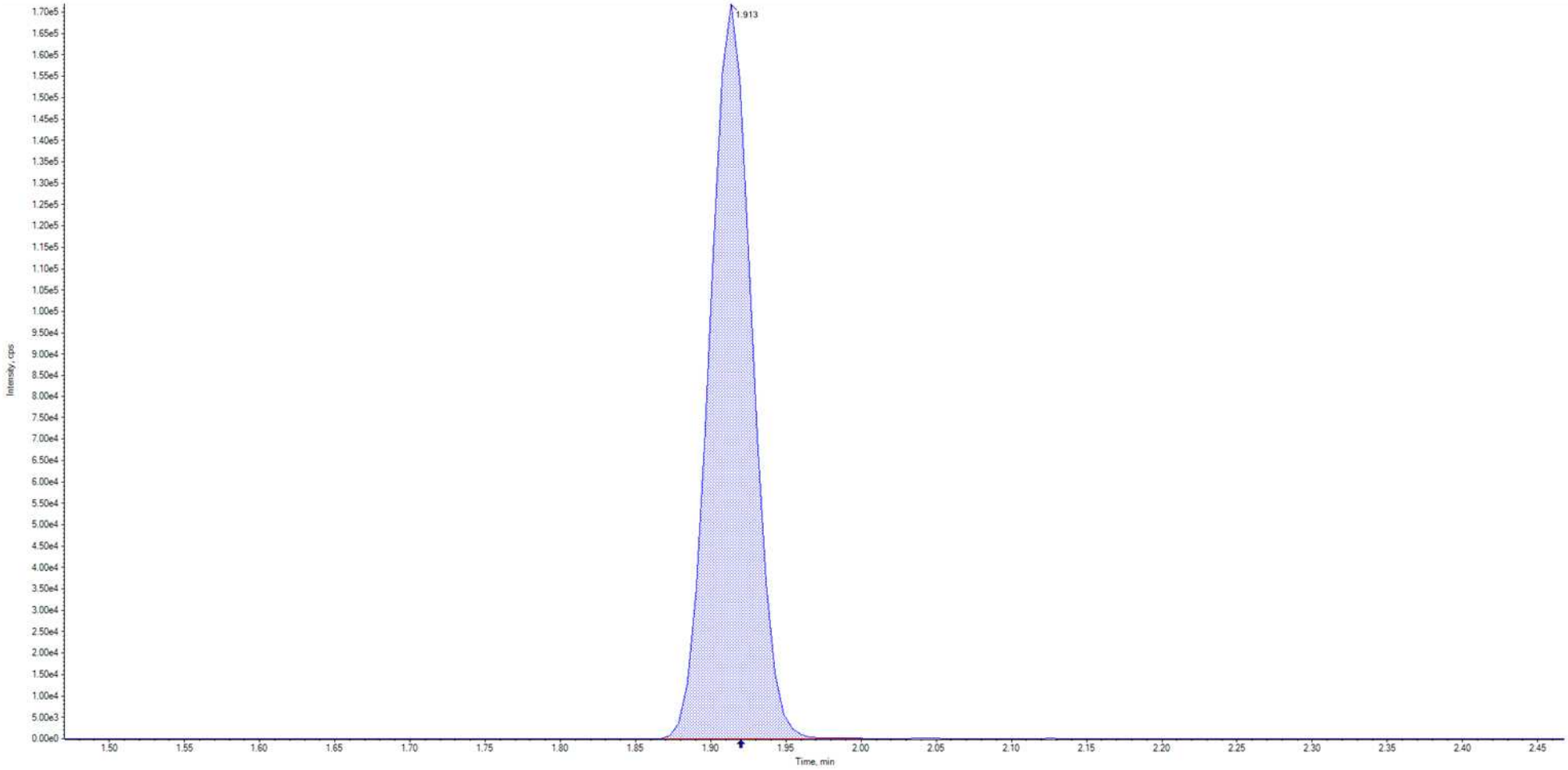


13C2-PFTeDA
Sample: IA1633STD-25

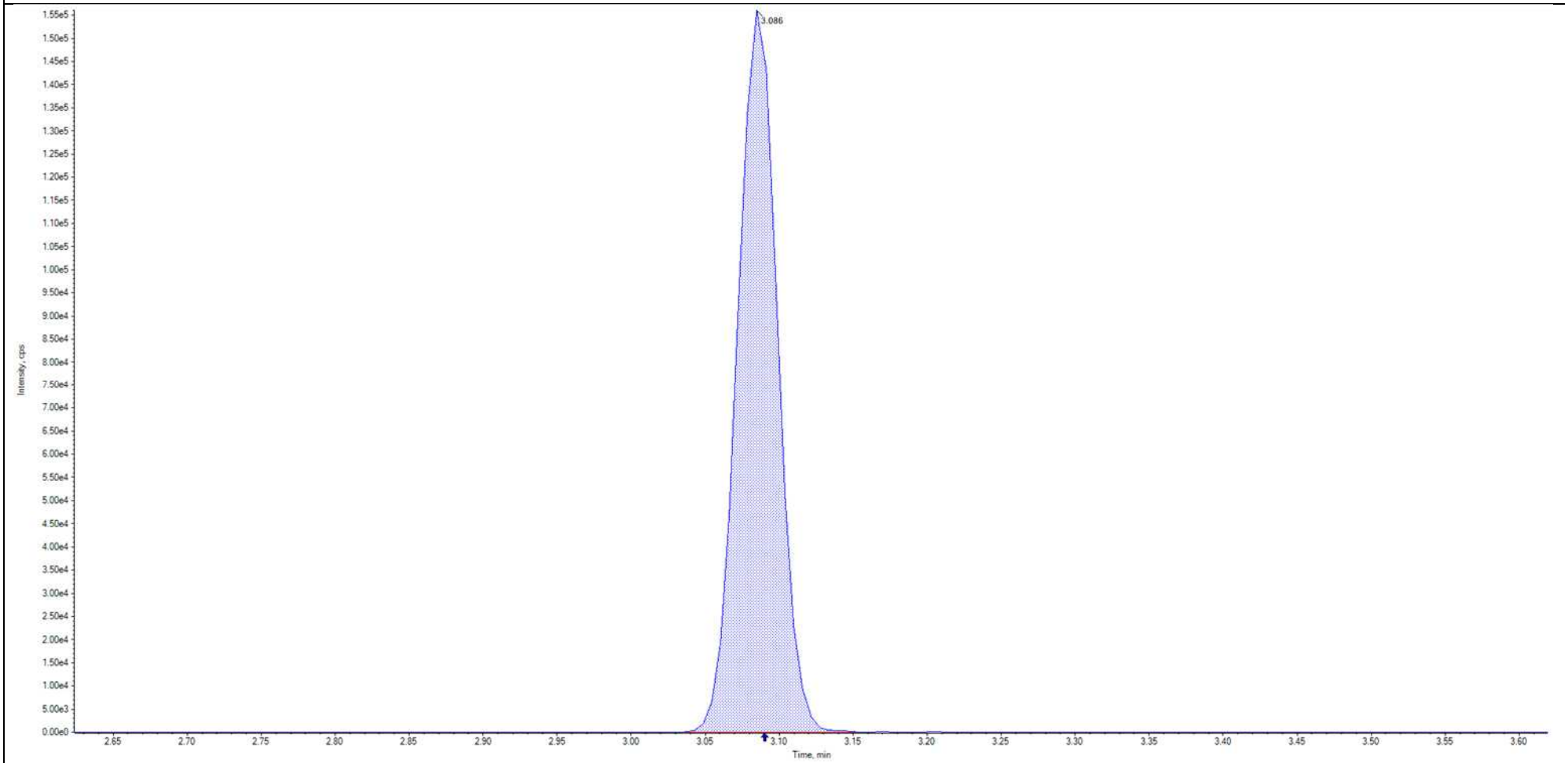


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C3-PFBS
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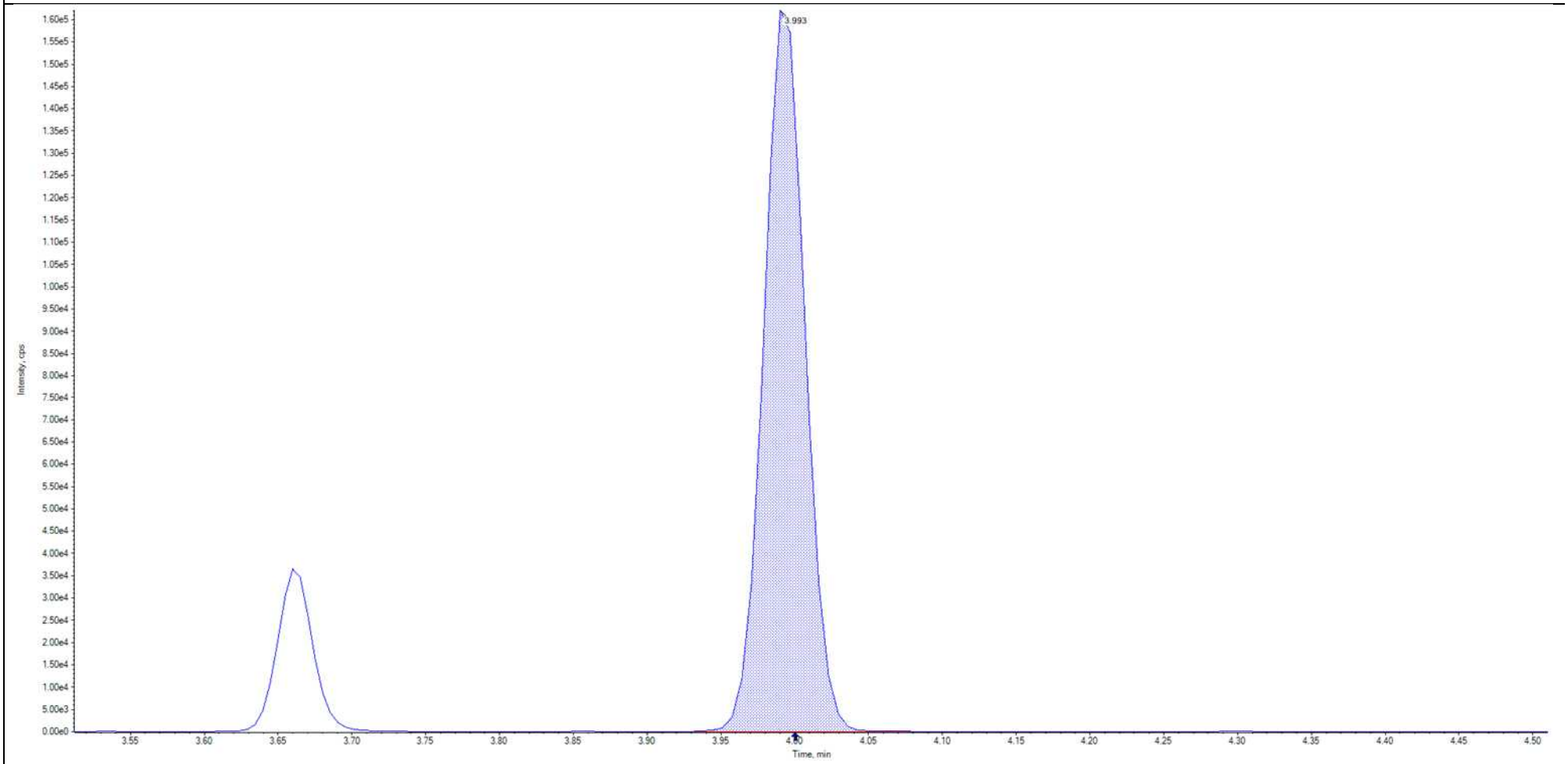


13C3-PFHxS
Sample: IA1633STD-25

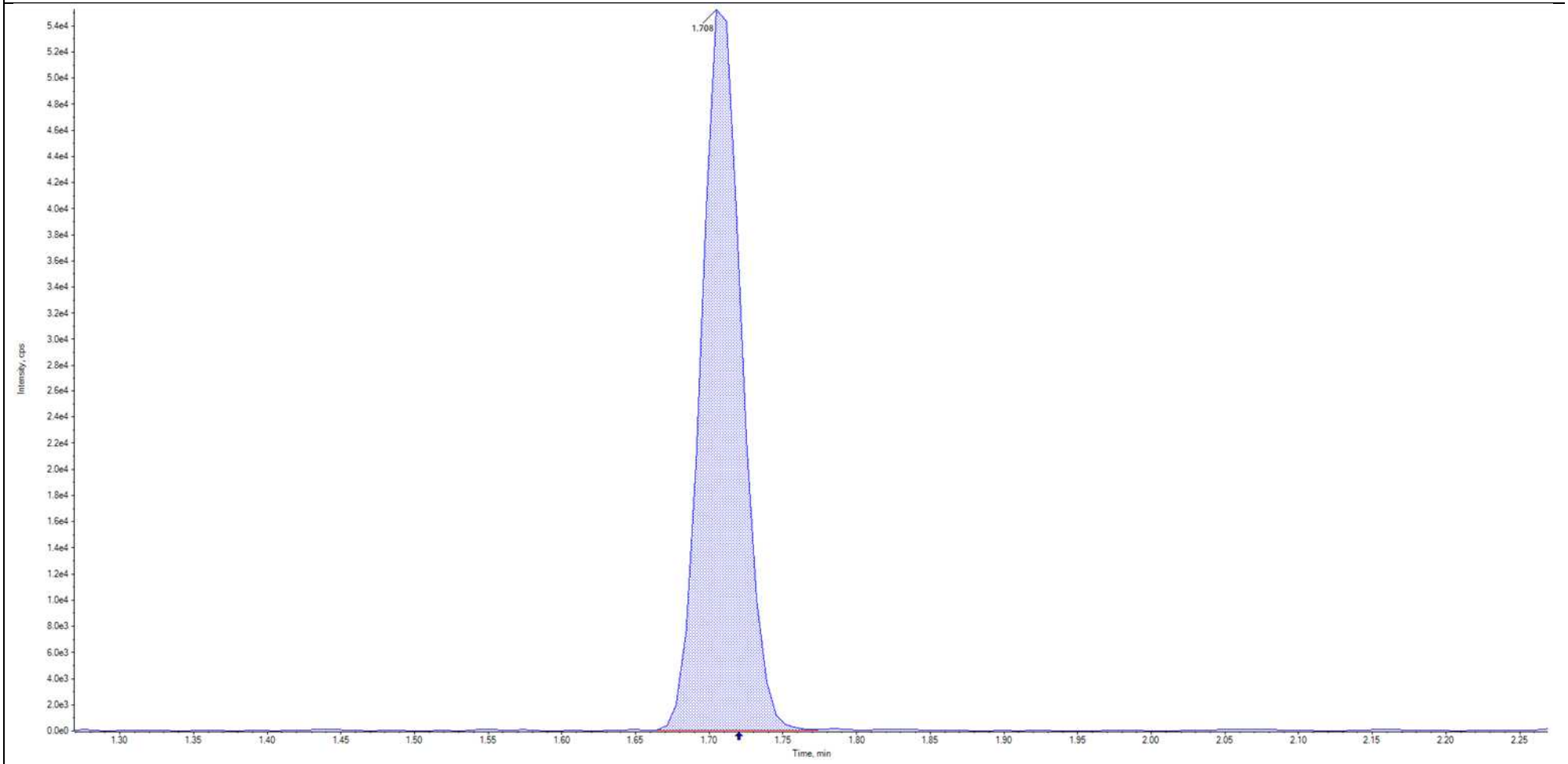


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C8-PFOS
Sample: IA1633STD-25

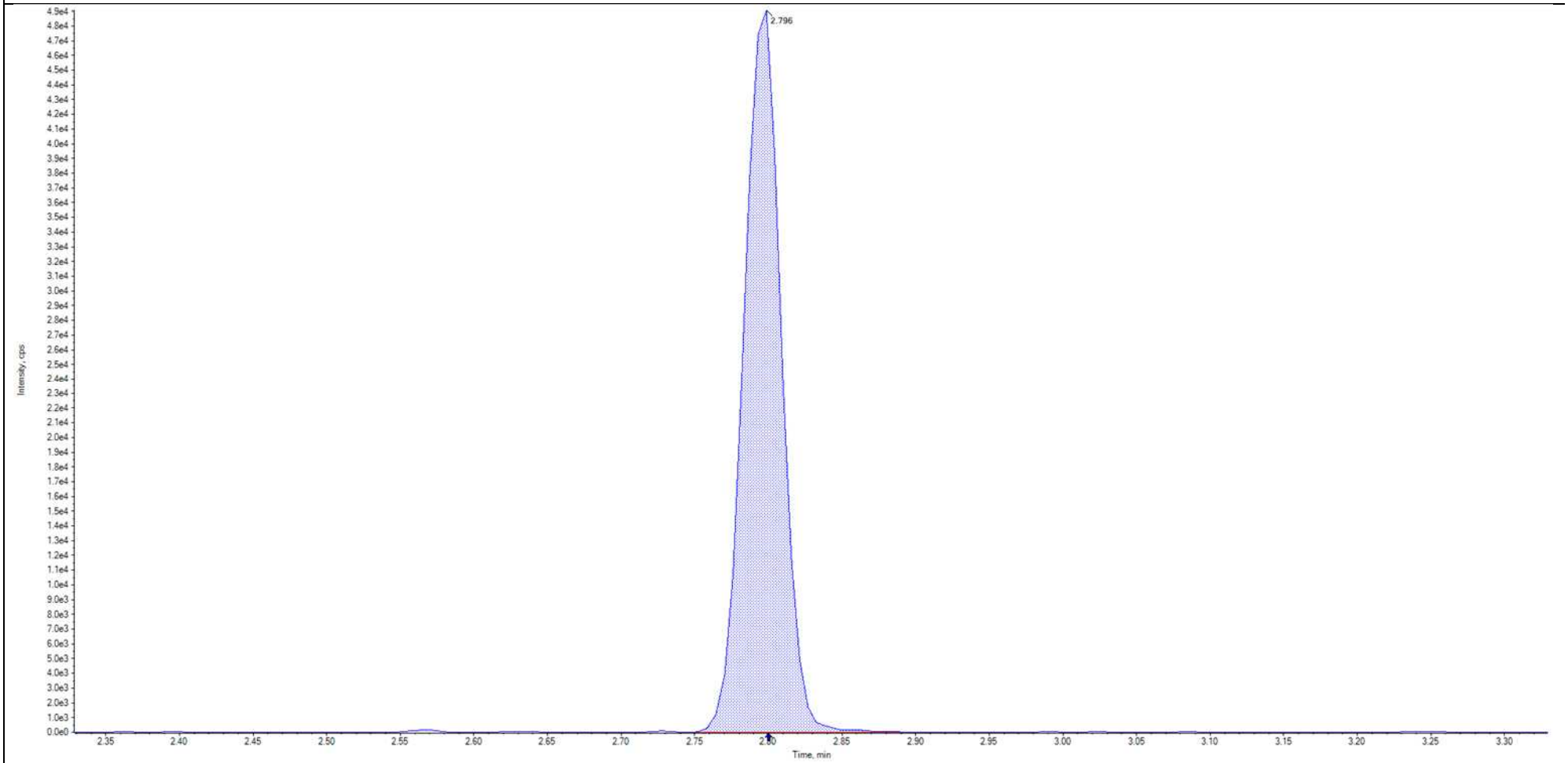


13C2-4:2FTS
Sample: IA1633STD-25

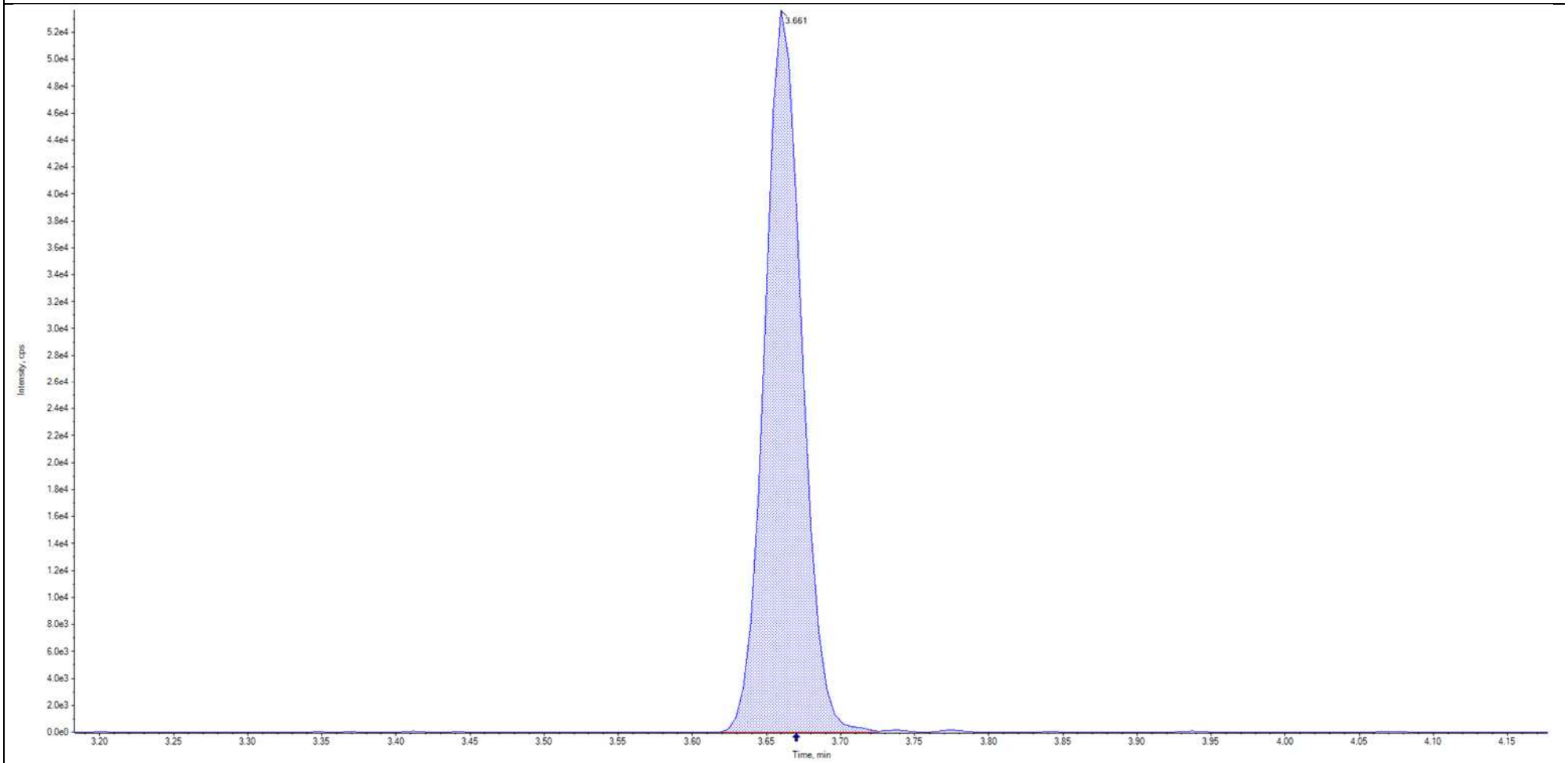


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C2-6:2FTS
Sample: IA1633STD-25

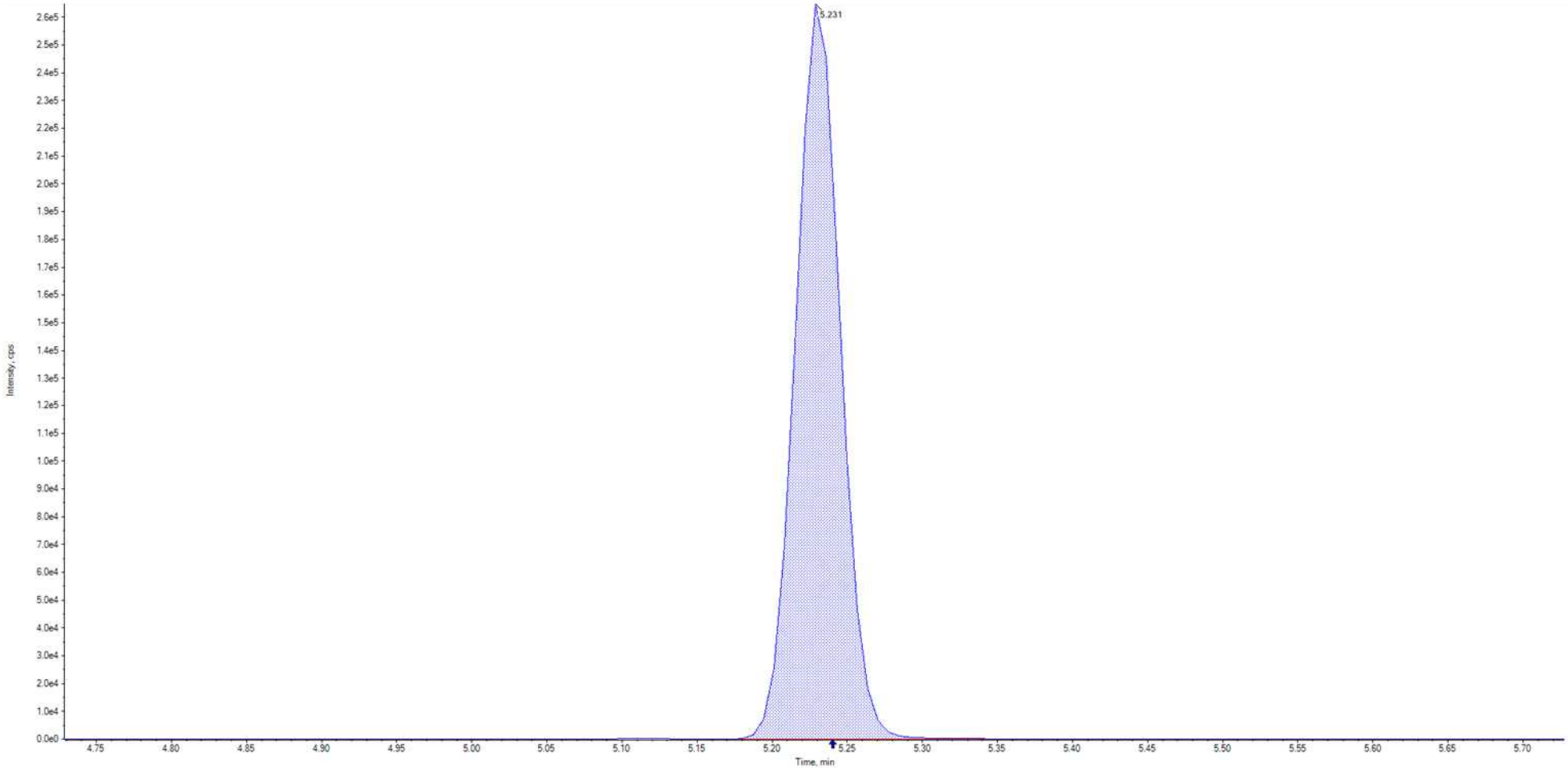


13C2-8:2FTS
Sample: IA1633STD-25

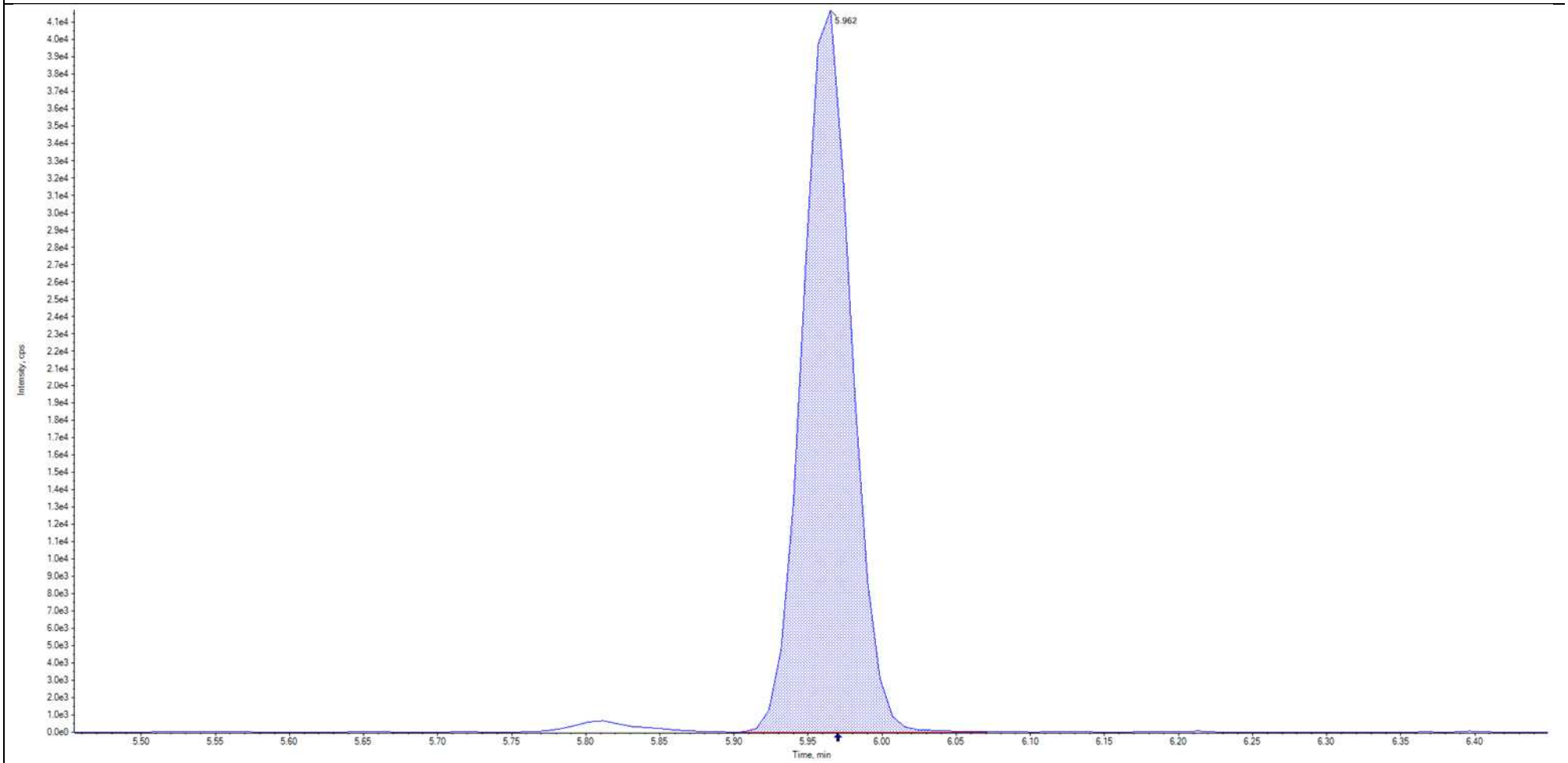


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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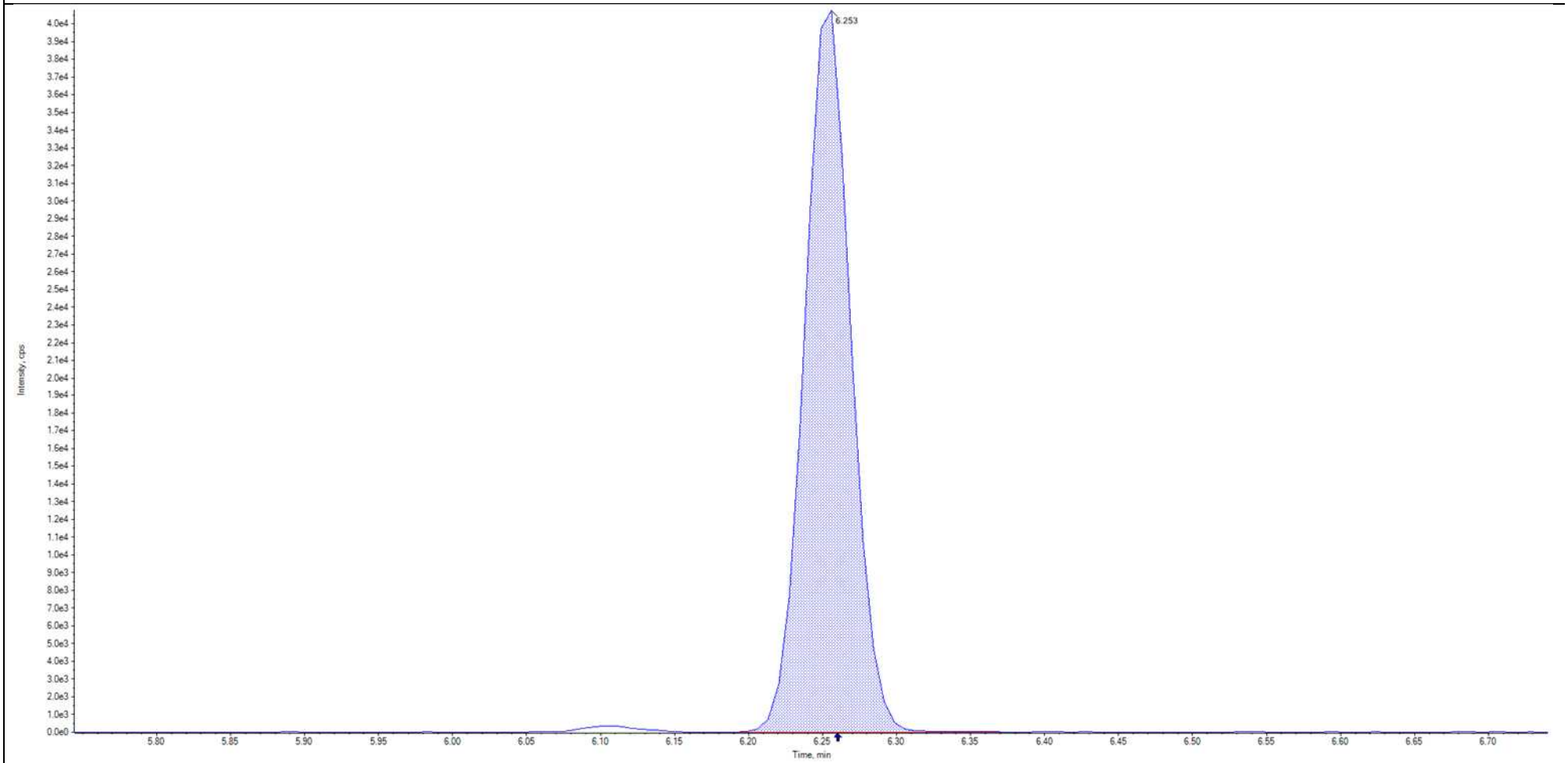
13C8-PFOSA
Sample: IA1633STD-25



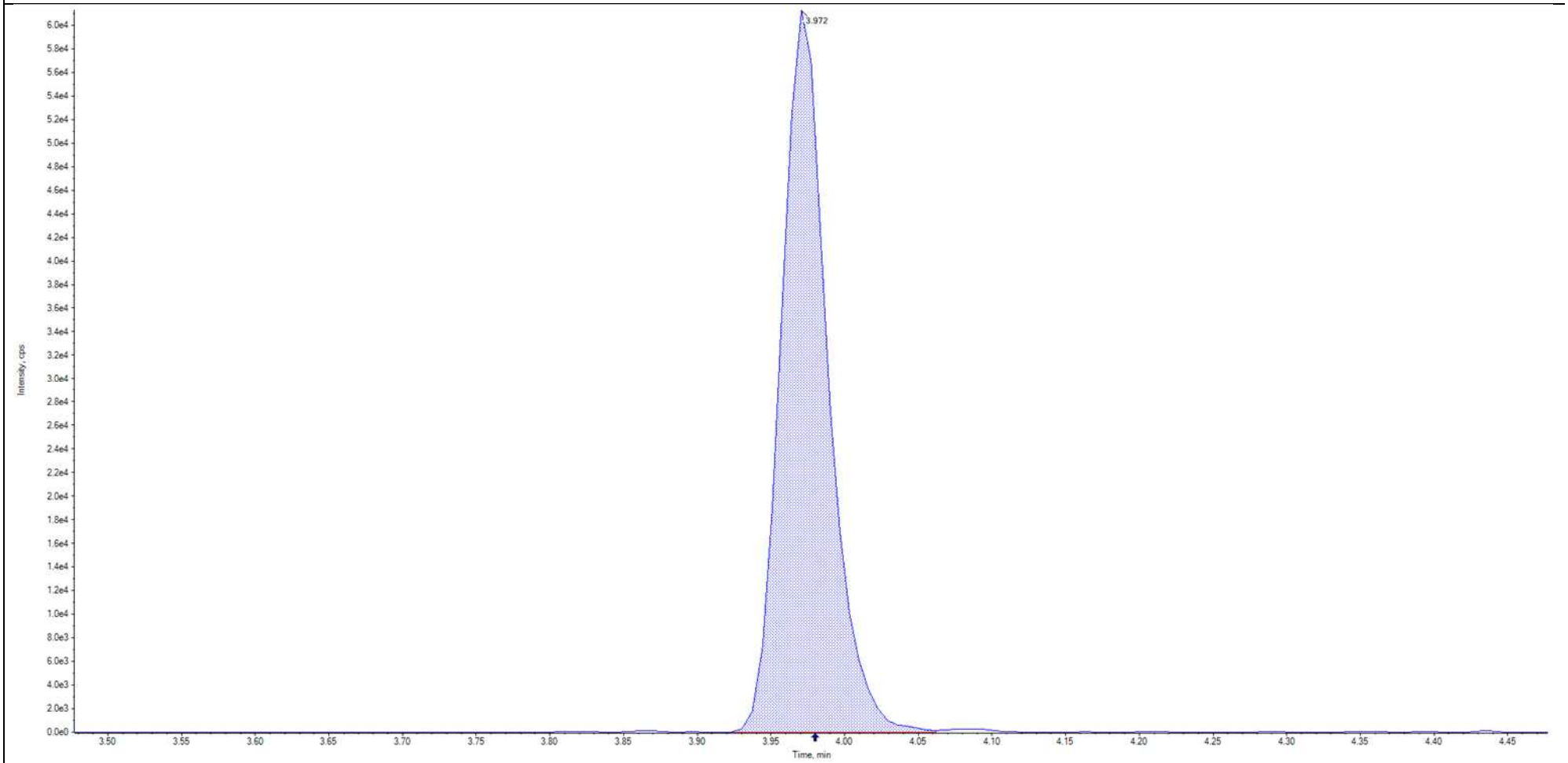
d3-NMeFOSA
Sample: IA1633STD-25



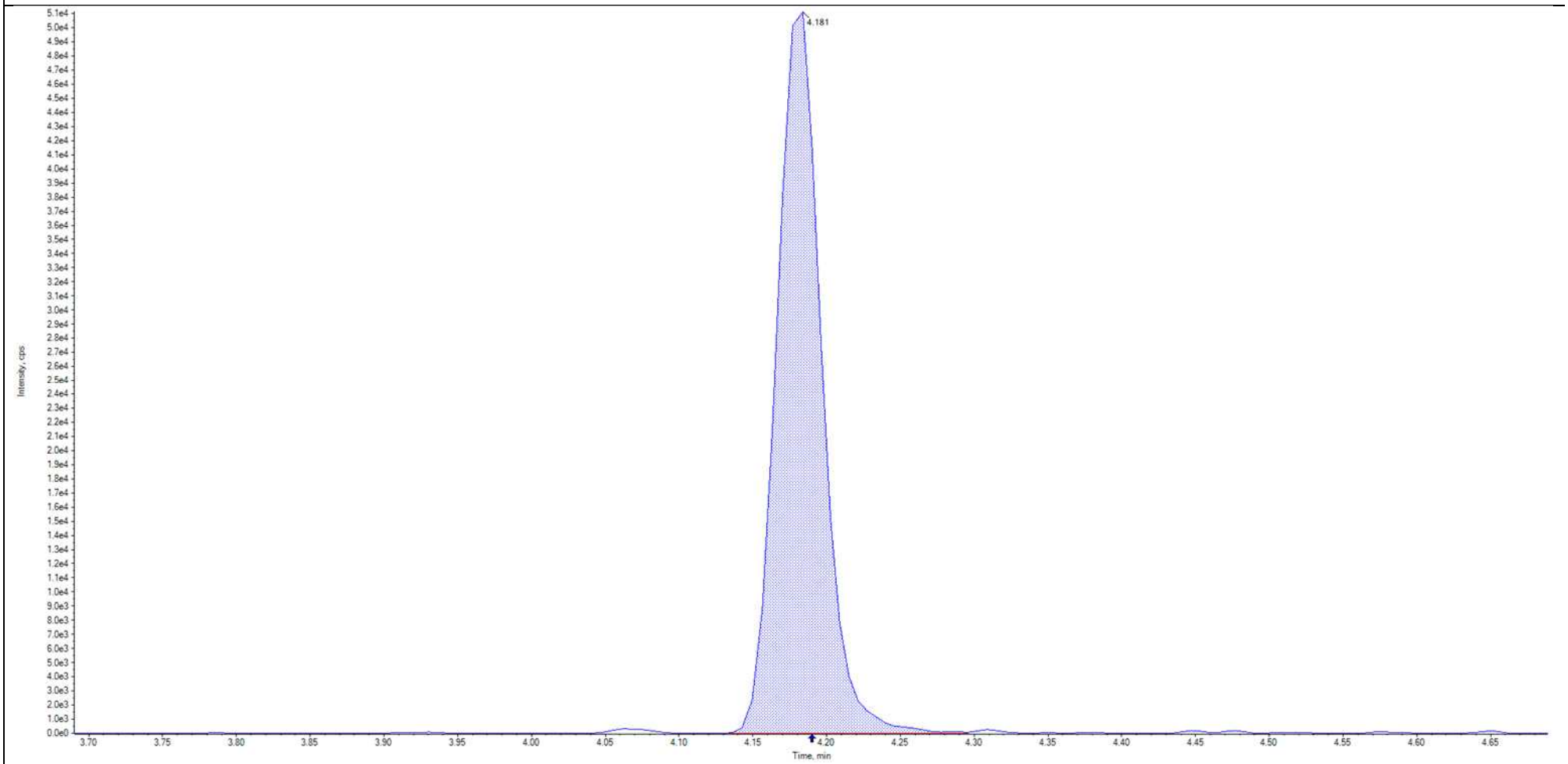
d5-NEtFOSA
Sample: IA1633STD-25



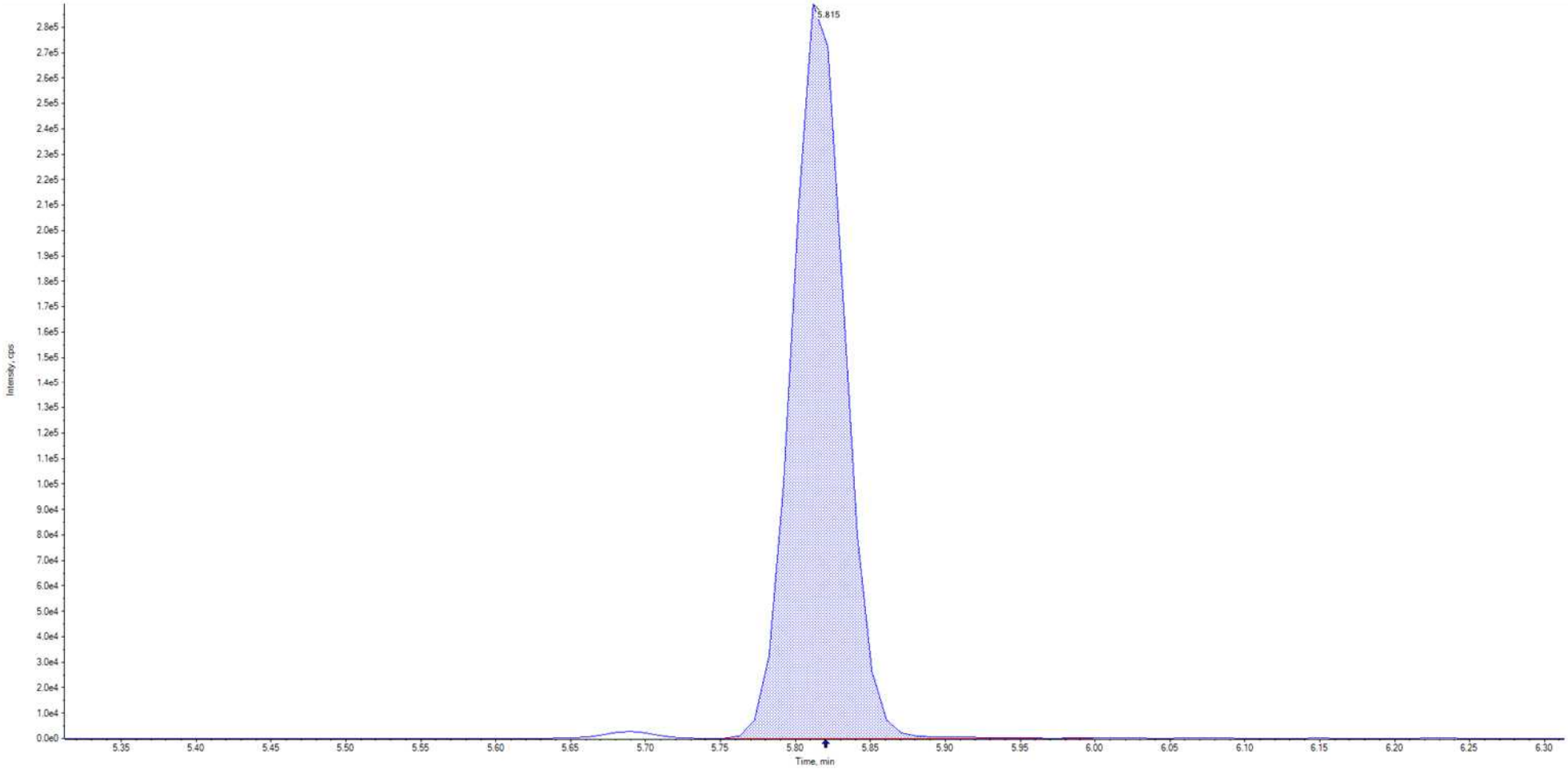
d3-NMeFOSAA
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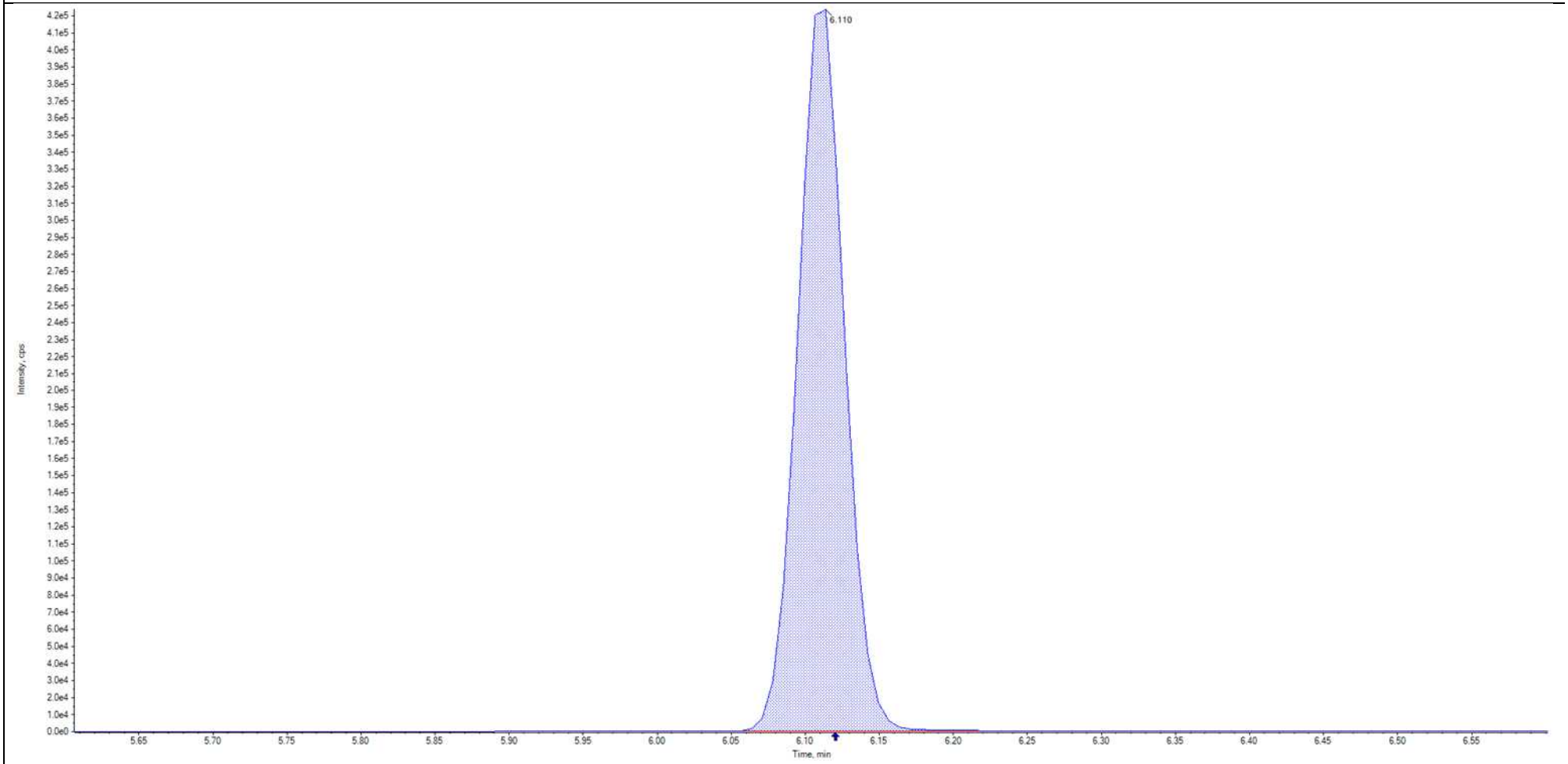
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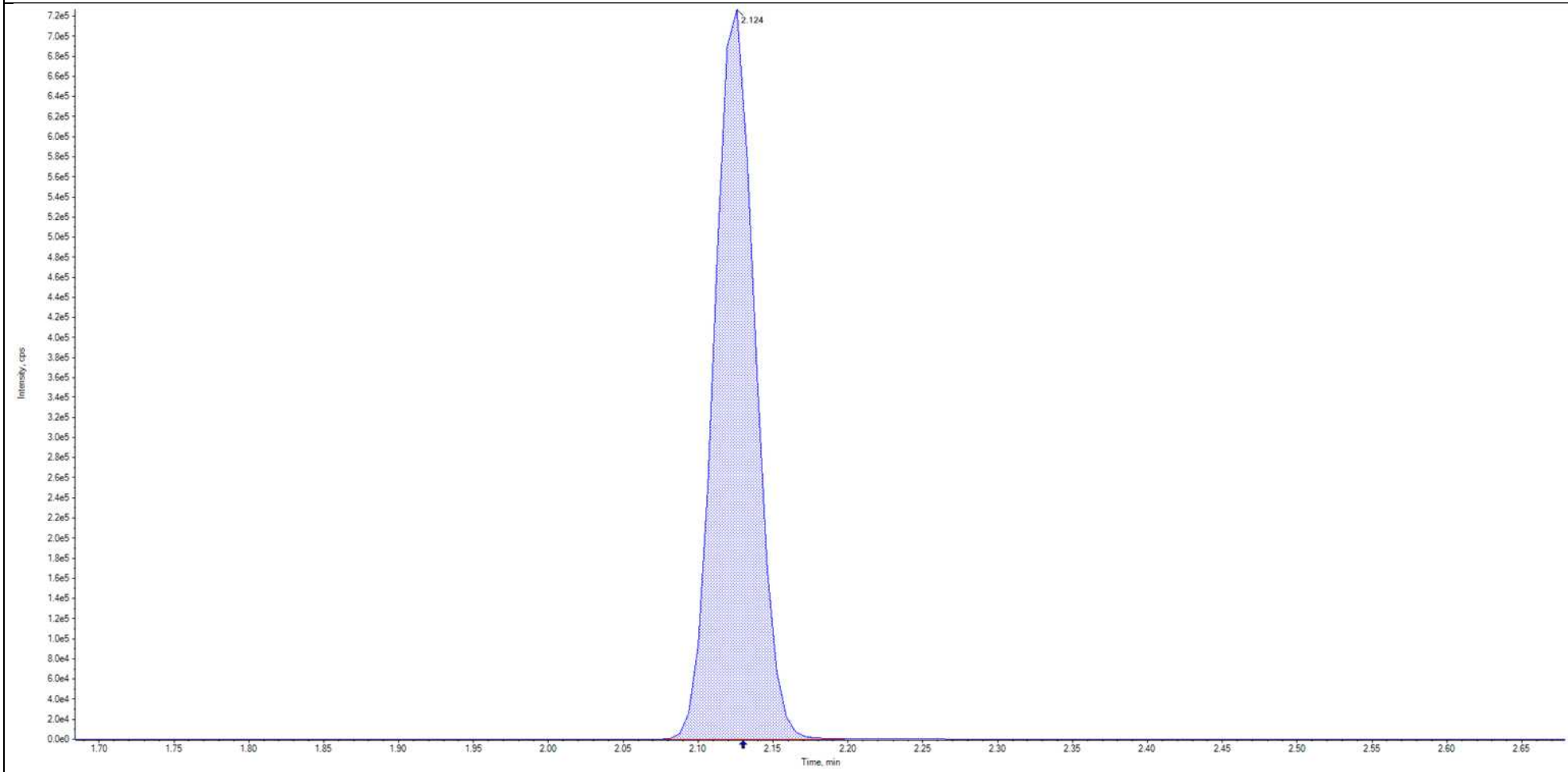
d7-NMeFOSE
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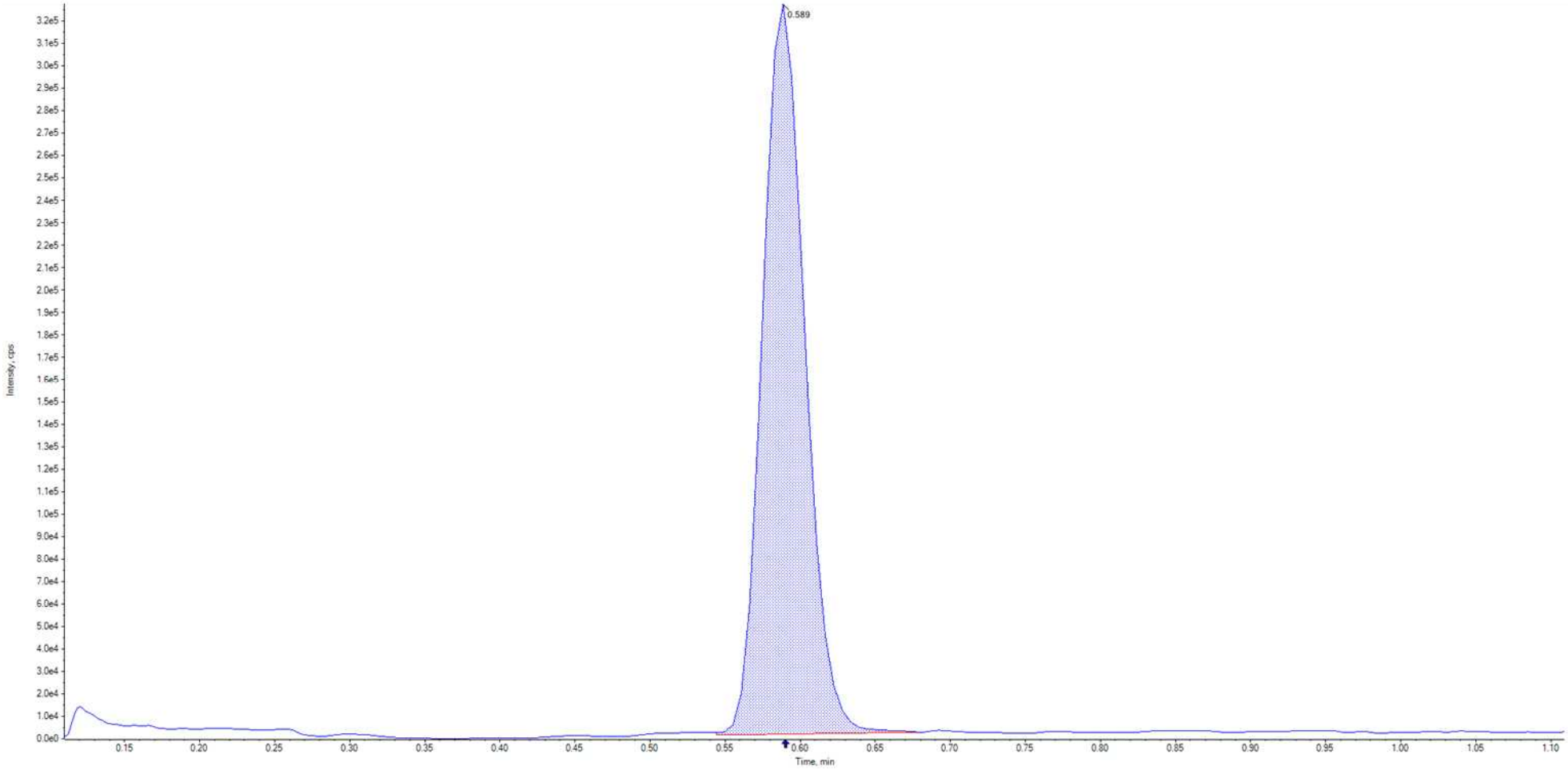
d9-NEtFOSE
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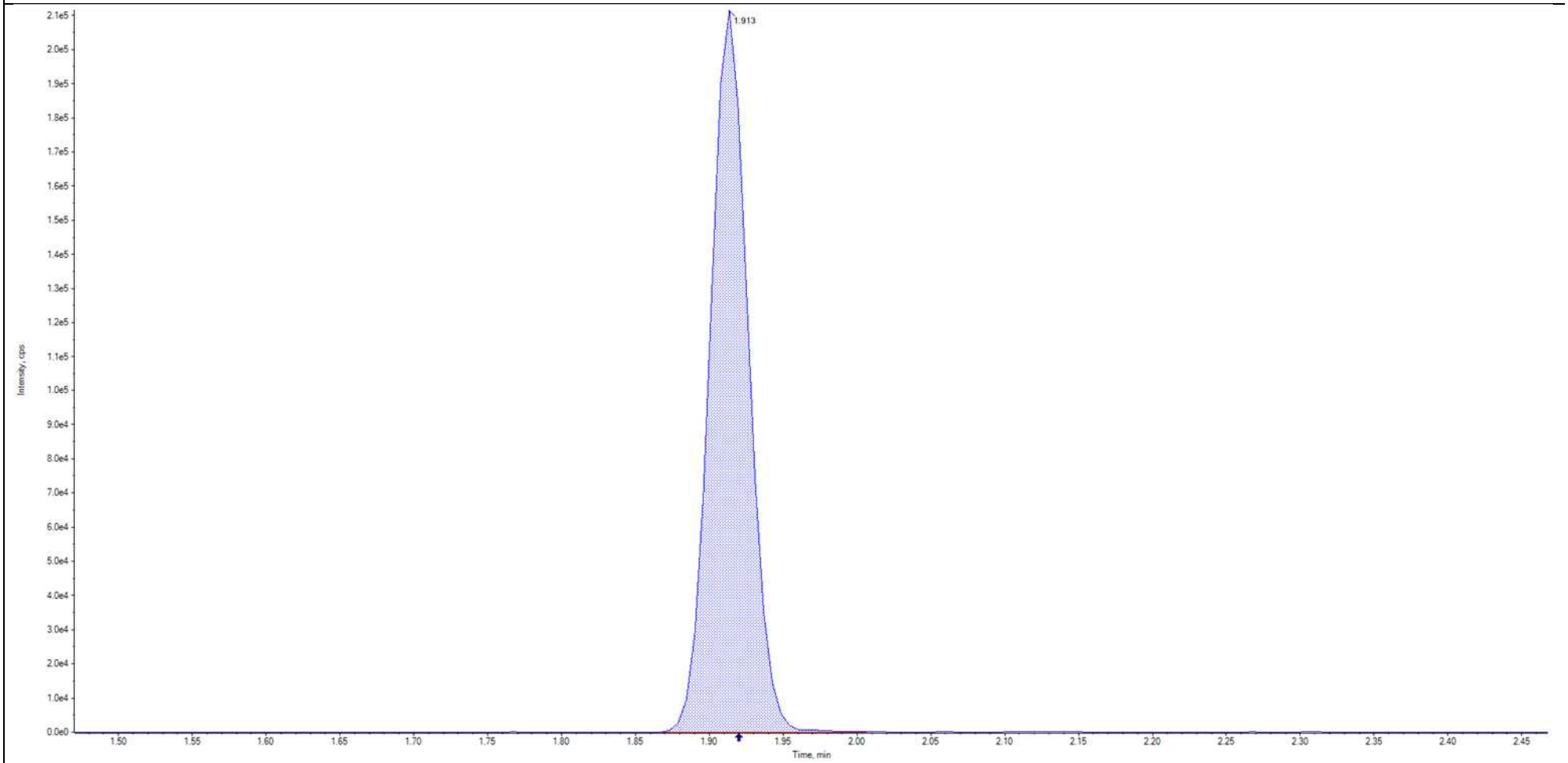
13C3-HFPO-DA
Sample: IA1633STD-25



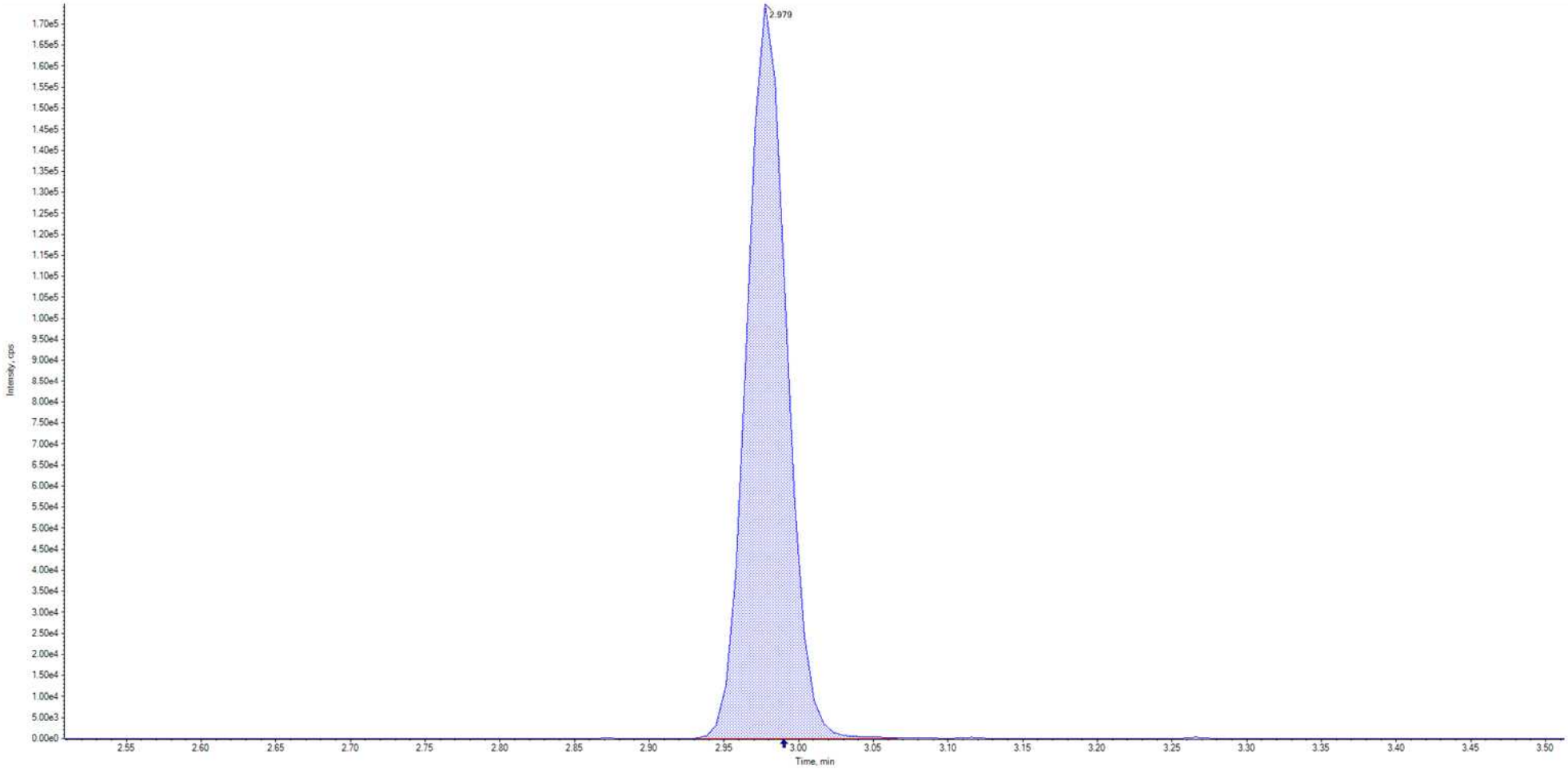
13C3-PFBA
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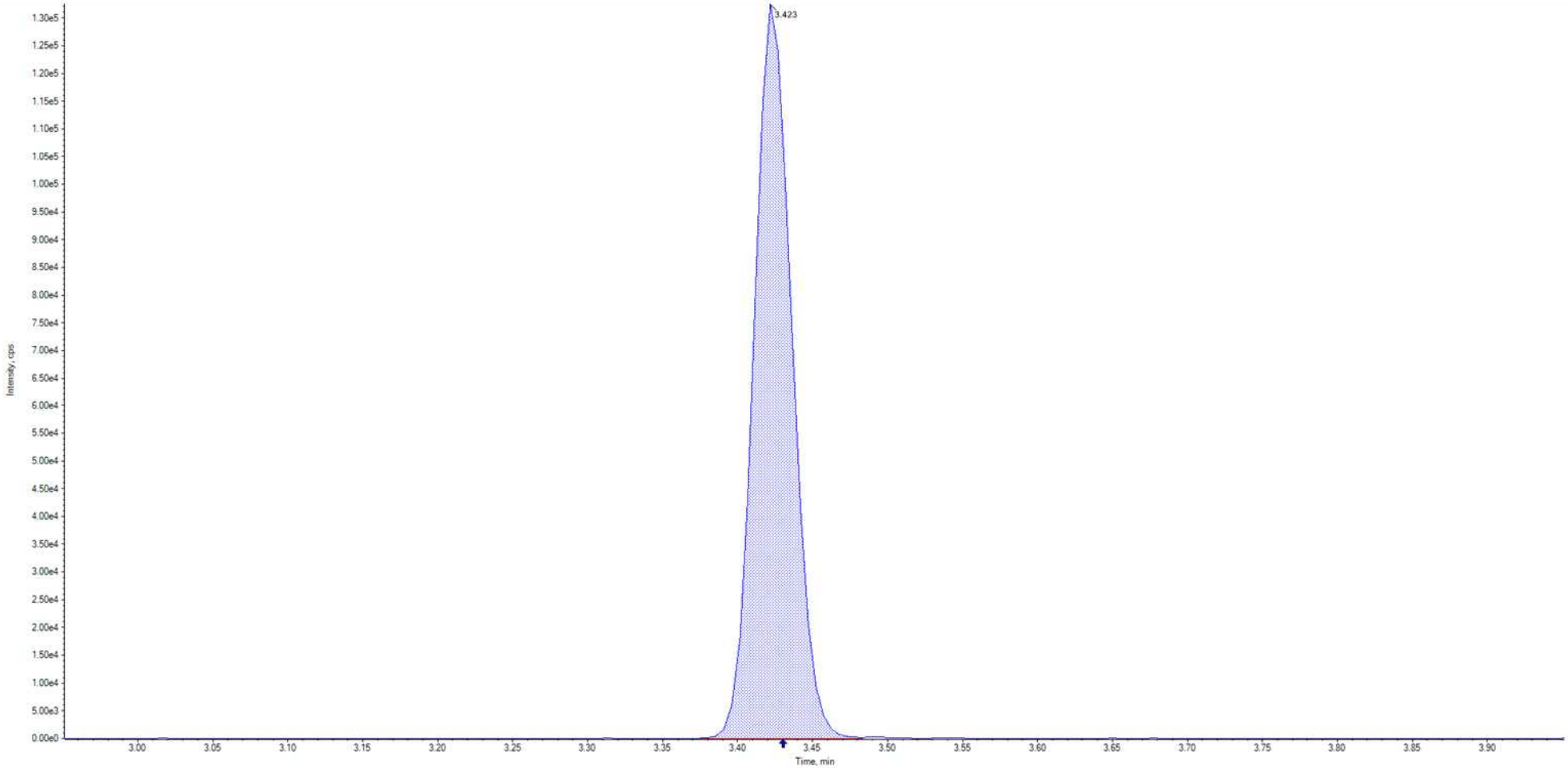
13C2-PFHxA
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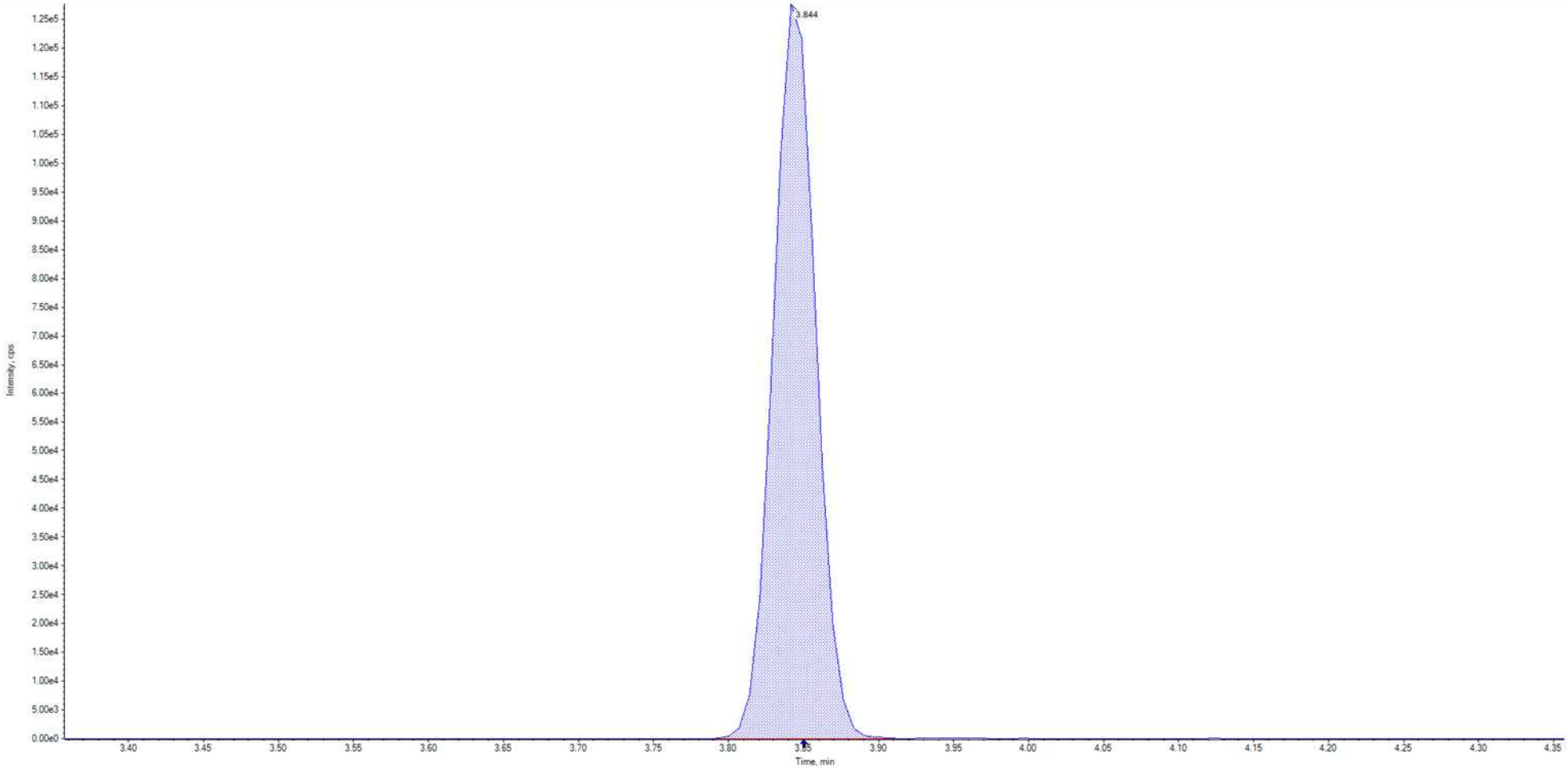
13C4-PFOA
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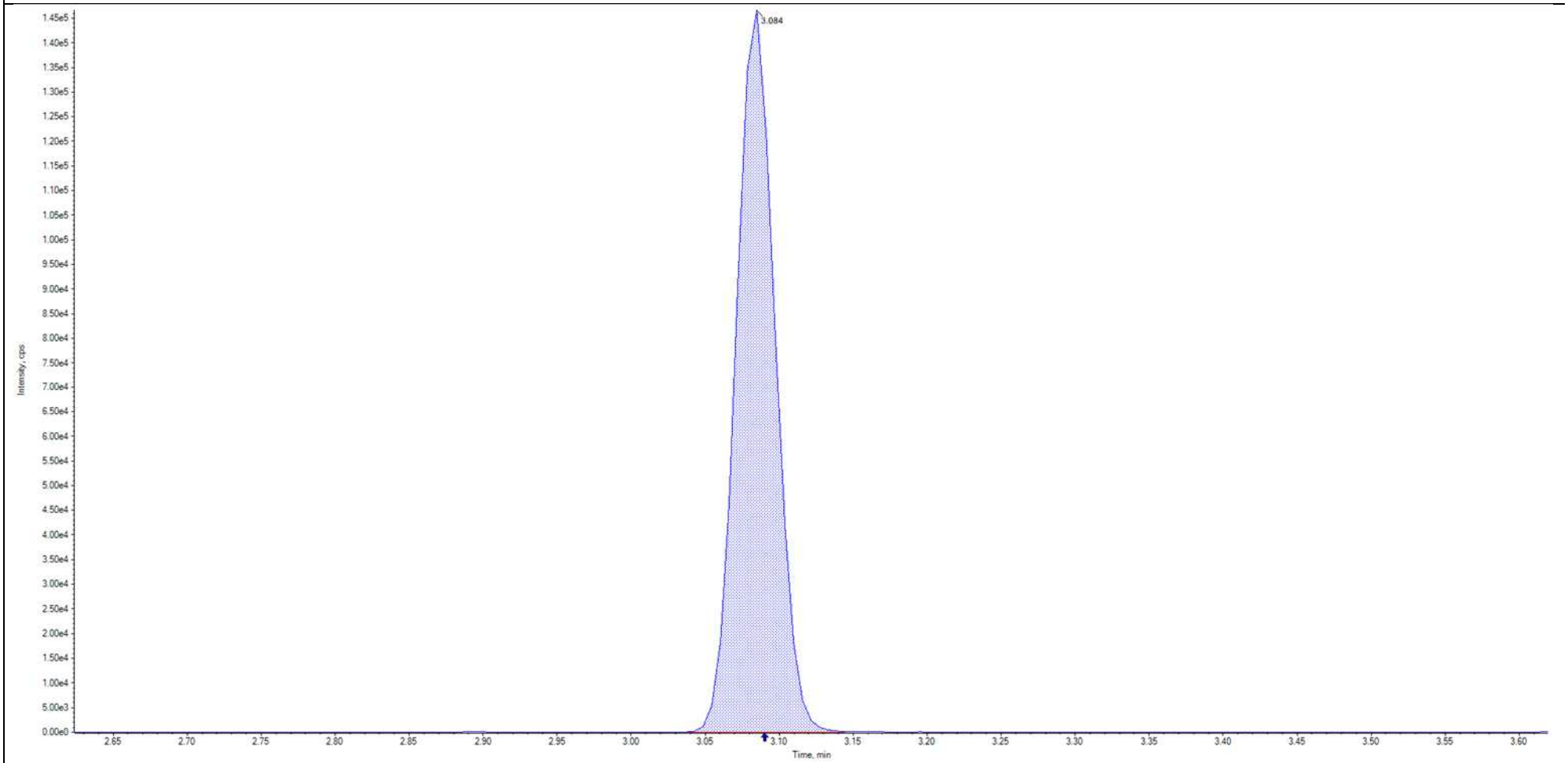
13C5-PFNA
Sample: IA1633STD-25



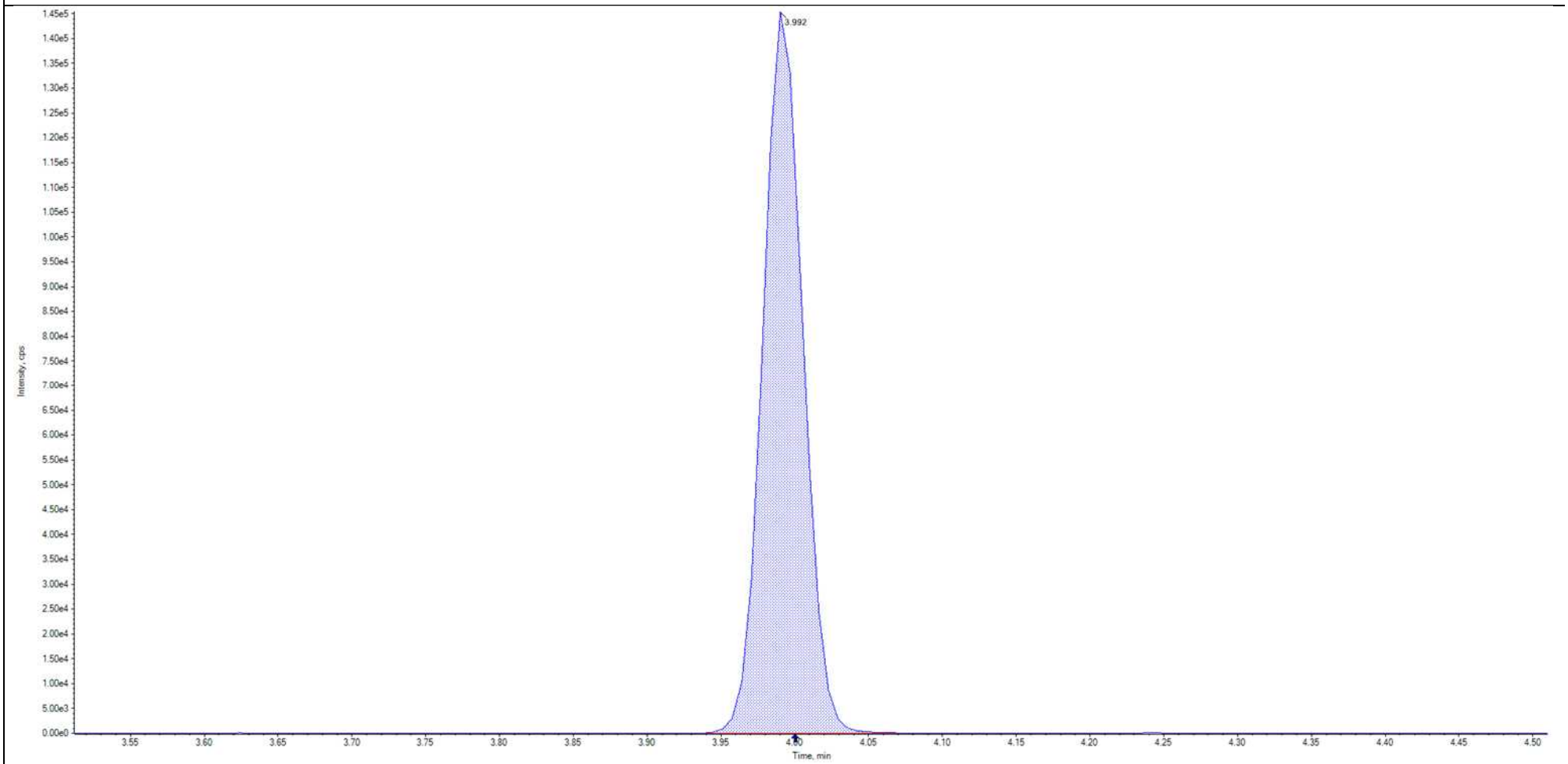
13C2-PFDA
Sample: IA1633STD-25



18O2-PFHxS
Sample: IA1633STD-25



13C4-PFOS
Sample: IA1633STD-25



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Alpha Analytical LLC
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Alpha Analytical LLC
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LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.60	213.0 / 169.0	24068781		210.285	N/A	N/A	N/A	105.1
2	PFPeA	2706-90-3	1.19	263.0 / 219.0	13165995		103.859	0.007	N/A	N/A	103.9
3	PFPeA_2	2706-90-3	1.19	263.0 / 68.9	91997		103.471	0.007	N/A	N/A	103.5
4	PFHxA	307-24-4	1.93	313.0 / 269.0	8005794		50.842	0.087	0.081	Pass	101.7
5	PFHxA_2	307-24-4	1.93	313.0 / 119.0	696133		51.996	0.087	0.081	Pass	104.0
6	PFHpA	375-85-9	2.51	363.1 / 319.0	9253281		47.505	0.396	0.373	Pass	95.0
7	PFHpA_2	375-85-9	2.51	363.1 / 169.0	3660858		47.603	0.396	0.373	Pass	95.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	3.00	413.1 / 369.1	9382514	M5	51.876	0.442	0.424	Pass	103.8
9	PFOA_2	335-67-1	3.00	413.1 / 169.0	4144027	M5	54.132	0.442	0.424	Pass	108.3
10	PFNA	375-95-1	3.44	462.8 / 418.9	6937733	M5	54.893	0.493	0.493	Pass	109.8
11	PFNA_2	375-95-1	3.44	462.8 / 219.0	3421228	M5	55.594	0.493	0.493	Pass	111.2
12	PFDA	335-76-2	3.87	513.1 / 469.1	9749585		50.343	0.181	0.188	Pass	100.7
13	PFDA_2	335-76-2	3.86	513.1 / 219.0	1769363		49.622	0.181	0.188	Pass	99.2
14	PFUnA	2058-94-8	4.27	563.1 / 519.1	9277433		49.015	0.159	0.146	Pass	98.0
15	PFUnA_2	2058-94-8	4.27	563.1 / 269.0	1473369		54.161	0.159	0.146	Pass	108.3
16	PFDoA	307-55-1	4.66	613.1 / 569.1	11328963		49.791	0.144	0.142	Pass	99.6
17	PFDoA_2	307-55-1	4.66	613.1 / 319.0	1633680		52.099	0.144	0.142	Pass	104.2
18	PFTrDA	72629-94-8	5.04	663.1 / 619.1	10358401		51.821	0.157	0.152	Pass	103.6
19	PFTrDA_2	72629-94-8	5.04	663.1 / 169.0	1628690		53.054	0.157	0.152	Pass	106.1
20	PFTeDA	376-06-7	5.41	713.1 / 669.1	9185109		48.341	0.156	0.154	Pass	96.7
21	PFTeDA_2	376-06-7	5.41	713.1 / 169.0	1436142		46.294	0.156	0.154	Pass	92.6
22	PFBS	375-73-5	1.93	299.1 / 80.1	6442266		45.942	0.371	0.374	Pass	103.5

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.93	299.1 / 99.1	2388642		48.849	0.371	0.374	Pass	103.9
24	PFPeS	2706-91-4	2.57	349.1 / 80.1	7099834		49.314	0.303	0.314	Pass	104.9
25	PFPeS_2	2706-91-4	2.57	349.1 / 99.1	2148955		47.535	0.303	0.314	Pass	101.1
26	PFHxS	355-46-4	3.10	399.1 / 80.1	6188572	M5	47.066	0.295	0.306	Pass	103.2
27	PFHxS_2	355-46-4	3.10	399.1 / 99.1	1823366		47.891	0.295	0.306	Pass	105.0
28	PFHpS	375-92-8	3.58	449.1 / 80.1	6448557		49.150	0.295	0.316	Pass	103.3
29	PFHpS_2	375-92-8	3.57	449.1 / 99.1	1900434		47.338	0.295	0.316	Pass	99.5
30	PFOS	1763-23-1	4.01	499.1 / 80.1	7481587	M5	46.880	0.256	0.244	Pass	101.0
31	PFOS_2	1763-23-1	4.01	499.1 / 99.1	1912657		47.702	0.256	0.244	Pass	102.8
32	PFNS	68259-12-1	4.43	549.1 / 80.1	5205066		47.903	0.291	0.294	Pass	99.8
33	PFNS_2	68259-12-1	4.42	549.1 / 99.1	1514762		48.769	0.291	0.294	Pass	101.6
34	PFDS	335-77-3	4.82	599.1 / 80.1	5221579		48.915	0.286	0.290	Pass	101.5
35	PFDS_2	335-77-3	4.82	599.1 / 99.1	1490828		49.456	0.286	0.290	Pass	102.6
36	PFDoS	79780-39-5	5.56	699.2 / 80.1	4770330		49.048	0.252	0.256	Pass	101.3
37	PFDoS_2	79780-39-5	5.56	699.2 / 99.1	1202949		47.986	0.252	0.256	Pass	99.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.73	327.1 / 307.1	6660449		193.838	0.637	0.650	Pass	103.7
39	4:2FTS_2	757124-72-4	1.73	327.1 / 81.1	4242953		191.319	0.637	0.650	Pass	102.3
40	6:2FTS	27619-97-2	2.81	427.2 / 407.2	5948441		179.300	0.638	0.620	Pass	94.4
41	6:2FTS_2	27619-97-2	2.81	427.2 / 81.1	3795702		178.504	0.638	0.620	Pass	94.0
42	8:2FTS	39108-34-4	N/A	527.2 / 507.2	N/A		N/A	N/A	0.676	N/A	N/A
43	8:2FTS_2	39108-34-4	N/A	527.2 / 81.1	N/A		N/A	N/A	0.676	N/A	N/A
44	PFOSA	754-91-6	5.25	498.1 / 78.1	9546074	M5	53.215	0.024	0.026	Pass	106.4
45	PFOSA_2	754-91-6	5.25	498.1 / 478.0	224986	M5	48.550	0.024	0.026	Pass	97.1
46	NMeFOSA	31506-32-8	5.99	512.2 / 219.0	2438874	M5	52.996	1.381	1.377	Pass	106.0
47	NMeFOSA_2	31506-32-8	5.94	512.2 / 169.0	3367080	M5	52.656	1.381	1.377	Pass	105.3
48	NEtFOSA	4151-50-2	6.28	526.2 / 219.0	2344301		52.660	1.265	1.292	Pass	105.3
49	NEtFOSA_2	4151-50-2	6.24	526.2 / 169.0	2965247		53.384	1.265	1.292	Pass	106.8
50	NMeFOSAA	2355-31-9	3.99	570.2 / 419.1	1289199		53.596	0.684	0.697	Pass	107.2
51	NMeFOSAA_2	2355-31-9	3.99	570.2 / 483.0	882078		51.041	0.684	0.697	Pass	102.1
52	NEtFOSAA	2991-50-6	4.20	584.2 / 419.1	1274167		50.631	0.572	0.557	Pass	101.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.20	584.2 / 526.2	728366	M5	52.507	0.572	0.557	Pass	105.0
54	NMeFOSE	24448-09-7	5.85	616.1 / 58.9	35316875	M5	540.772	N/A	N/A	N/A	108.2
55	NEtFOSE	1691-99-2	6.15	630.0 / 58.9	46839270	M5	524.078	N/A	N/A	N/A	104.8
56	HFPO-DA	13252-13-6	2.14	285.0 / 169.0	28089338		206.507	0.495	0.501	Pass	103.3
57	HFPO-DA_2	13252-13-6	2.14	285.0 / 184.9	13906692		193.913	0.495	0.501	Pass	97.0
58	ADONA	919005-14-4	2.69	376.9 / 251.0	41854908		145.788	0.746	0.691	Pass	77.1
59	ADONA_2	919005-14-4	2.69	376.9 / 84.8	31210593		164.089	0.746	0.691	Pass	86.8
60	9Cl-PF3ONS	756426-58-1	4.30	530.8 / 351.1	43985831		161.739	0.336	0.332	Pass	86.5
61	9Cl-PF3ONS_2	756426-58-1	4.30	532.8 / 353.0	14765600		163.344	0.336	0.332	Pass	87.4
62	11Cl-PF3OUdS	763051-92-9	5.08	630.9 / 451.0	37585090		163.432	0.322	0.322	Pass	86.5
63	11Cl-PF3OUdS_2	763051-92-9	5.08	632.9 / 452.9	12101519		163.936	0.322	0.322	Pass	86.7
64	3:3FTCA	356-02-5	1.58	241.1 / 177.1	2933501		299.691	1.022	1.010	Pass	119.9
65	3:3FTCA_2	356-02-5	1.58	241.1 / 117.0	2997797		282.049	1.022	1.010	Pass	112.8
66	5:3FTCA	914637-49-3	3.04	341.1 / 237.1	48209215		1224.387	1.029	1.017	Pass	98.0
67	5:3FTCA_2	914637-49-3	3.04	341.1 / 217.0	49591047		1250.010	1.029	1.017	Pass	100.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.07	441.1 / 316.9	48312405		1408.433	1.157	1.343	Pass	112.7
69	7:3FTCA_2	812-70-4	4.07	441.1 / 337.1	55887926		1232.532	1.157	1.343	Pass	98.6
70	PFEESA	113507-82-7	2.24	315.1 / 135.0	38438538		93.936	0.082	0.081	Pass	105.3
71	PFEESA_2	113507-82-7	2.24	315.1 / 82.9	3141191		93.331	0.082	0.081	Pass	104.6
72	PFMPA	377-73-1	0.76	229.0 / 85.0	14008445		117.007	N/A	N/A	N/A	117.0
73	PFMBA	863090-89-5	1.45	279.0 / 85.0	15351804		105.806	N/A	N/A	N/A	105.8
74	NFDHA	151772-58-6	1.86	295.0 / 201.0	11291899		105.423	0.709	0.681	Pass	105.4
75	NFDHA_2	151772-58-6	1.86	295.0 / 84.9	8000907		105.542	0.709	0.681	Pass	105.5
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	1.72	333.2 / 312.1	127883		5.347	N/A	N/A	N/A	106.9
79	13C2-PFOA	Surr	3.00	415.0 / 370.0	328767		2.637	N/A	N/A	N/A	105.5

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.60	217.0 / 172.0	1280734		10.239	NA	NA	NA	102.4

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.19	268.0 / 223.0	660469		5.357	NA	NA	NA	107.1
	13C5-PFHxA	EIS	1.93	318.0 / 273.0	307402		2.652	NA	NA	NA	106.1
	13C4-PFHpA	EIS	2.51	367.0 / 322.0	335449		3.000	NA	NA	NA	120.0
	13C8-PFOA	EIS	2.99	420.8 / 376.0	529023		2.360	NA	NA	NA	94.4
	13C9-PFNA	EIS	3.44	472.0 / 427.0	234293		1.255	NA	NA	NA	100.4
	13C6-PFDA	EIS	3.86	519.0 / 474.0	273817		1.353	NA	NA	NA	108.3
	13C7-PFUnA	EIS	4.26	570.0 / 525.0	279442		1.252	NA	NA	NA	100.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.65	615.1 / 570.0	300975		1.340	NA	NA	NA	107.2
	13C2-PFTeDA	EIS	5.40	715.1 / 670.1	208984		1.435	NA	NA	NA	114.8
	13C3-PFBS	EIS	1.93	302.1 / 80.1	307558		2.267	NA	NA	NA	97.3
	13C3-PFHxS	EIS	3.10	402.1 / 80.1	300885		2.496	NA	NA	NA	105.3
	13C8-PFOS	EIS	4.01	507.1 / 80.1	334761		2.483	NA	NA	NA	103.5
	13C2-4:2FTS	EIS	1.72	329.1 / 81.1	104704		5.234	NA	NA	NA	111.6
	13C2-6:2FTS	EIS	2.81	429.2 / 81.1	98174		5.700	NA	NA	NA	119.8
	13C2-8:2FTS	EIS	3.68	529.2 / 81.1	109677		6.290	NA	NA	NA	131.0

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.25	506.1 / 78.1	560053		2.617	NA	NA	NA	104.7
d3-NMeFOSA	EIS	5.98	515.2 / 219.0	102640		2.656	NA	NA	NA	106.2
d5-NEtFOSA	EIS	6.27	531.2 / 219.0	91351		2.599	NA	NA	NA	104.0
d3-NMeFOSAA	EIS	3.99	573.2 / 419.1	132309		5.004	NA	NA	NA	100.1
d5-NEtFOSAA	EIS	4.20	589.3 / 419.1	116072		5.493	NA	NA	NA	109.9
d7-NMeFOSE	EIS	5.83	623.2 / 58.9	720708		25.926	NA	NA	NA	103.7
d9-NEtFOSE	EIS	6.13	639.2 / 58.9	946123		25.371	NA	NA	NA	101.5

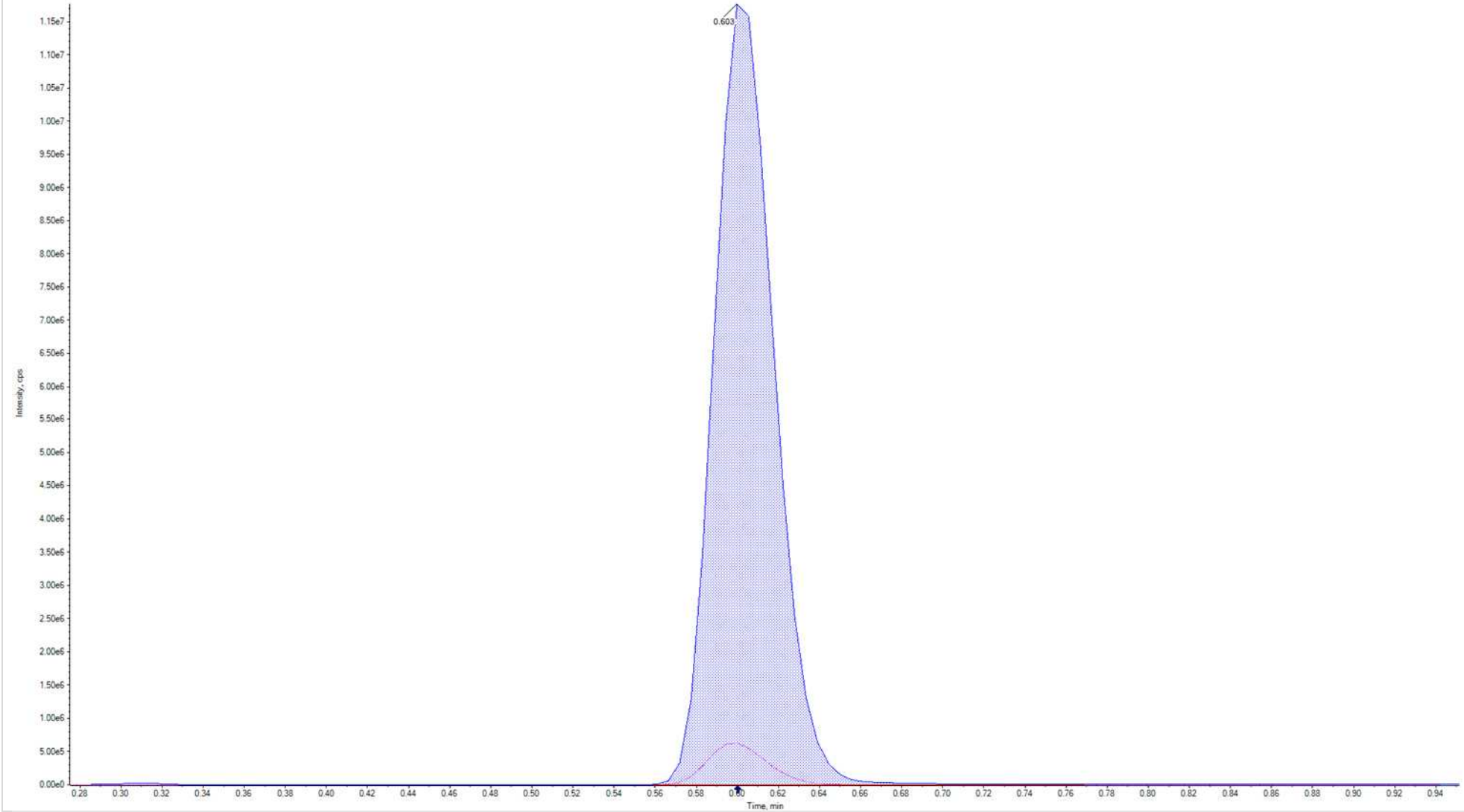
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	13C3-HFPO-DA	EIS	2.14	287.0 / 169.0	1342192		10.948	NA	NA	NA	109.5
	13C3-PFBA	NIS	0.60	216.0 / 172.0	553474		3.819	NA	NA	NA	76.4
	13C2-PFHxA	NIS	1.93	315.0 / 270.0	341317		2.106	NA	NA	NA	84.2
	13C4-PFOA	NIS	2.99	417.0 / 372.0	340601		2.369	NA	NA	NA	94.8
	13C5-PFNA	NIS	3.44	468.0 / 423.0	233897		1.135	NA	NA	NA	90.8
	13C2-PFDA	NIS	3.86	515.1 / 470.1	236126		1.110	NA	NA	NA	88.8
	18O2-PFHxS	NIS	3.10	403.1 / 84.1	253531		2.154	NA	NA	NA	90.9
	13C4-PFOS	NIS	4.01	503.1 / 80.1	271206		2.256	NA	NA	NA	94.0

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

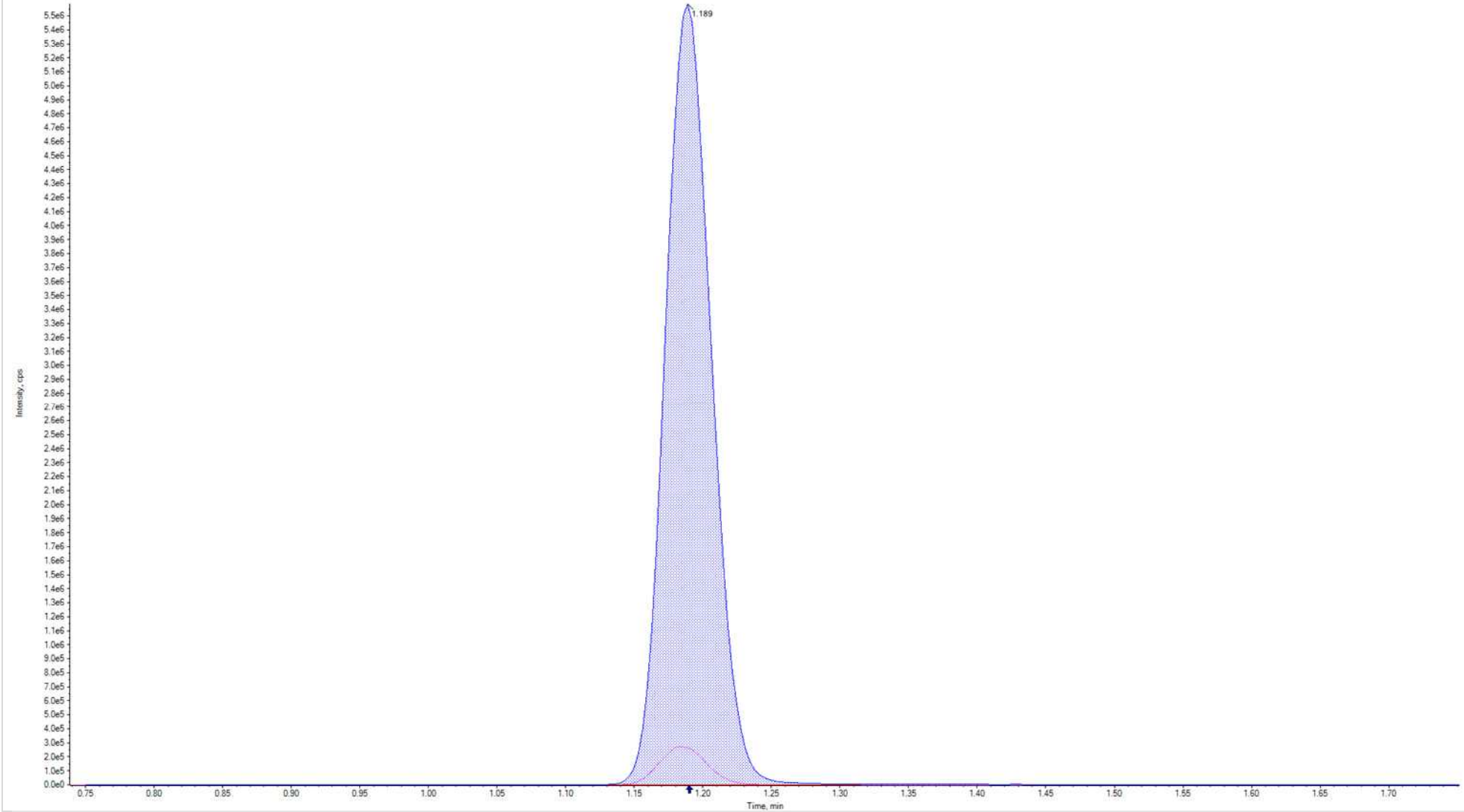
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_29.wiff2_8
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PFBA
Sample: IA1633STD-50 S/N:7485.4 Points Across peak:43



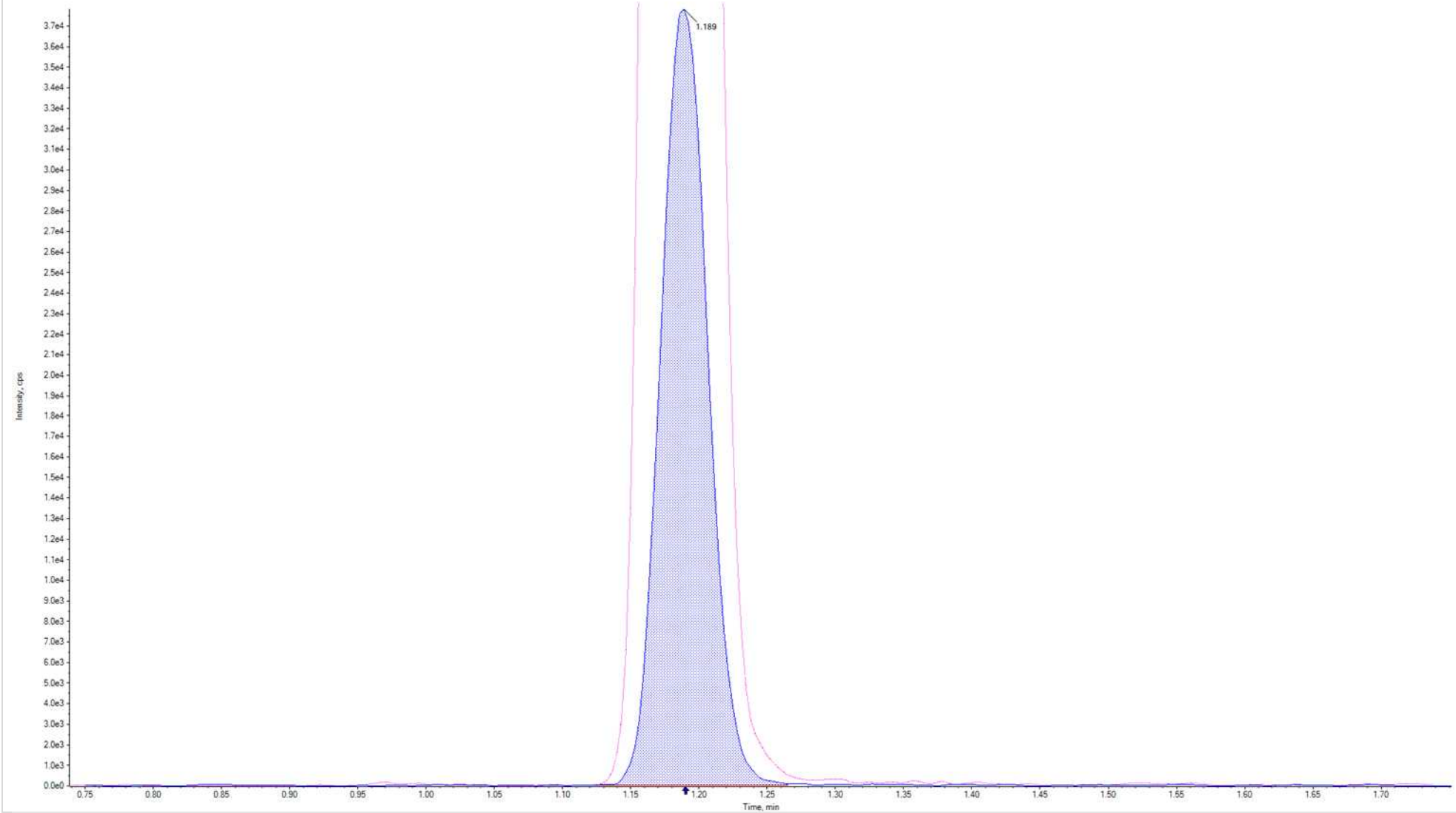
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Alpha Analytical LLC
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PFPeA
Sample: IA1633STD-50 S/N:16422.9 Points Across peak:60



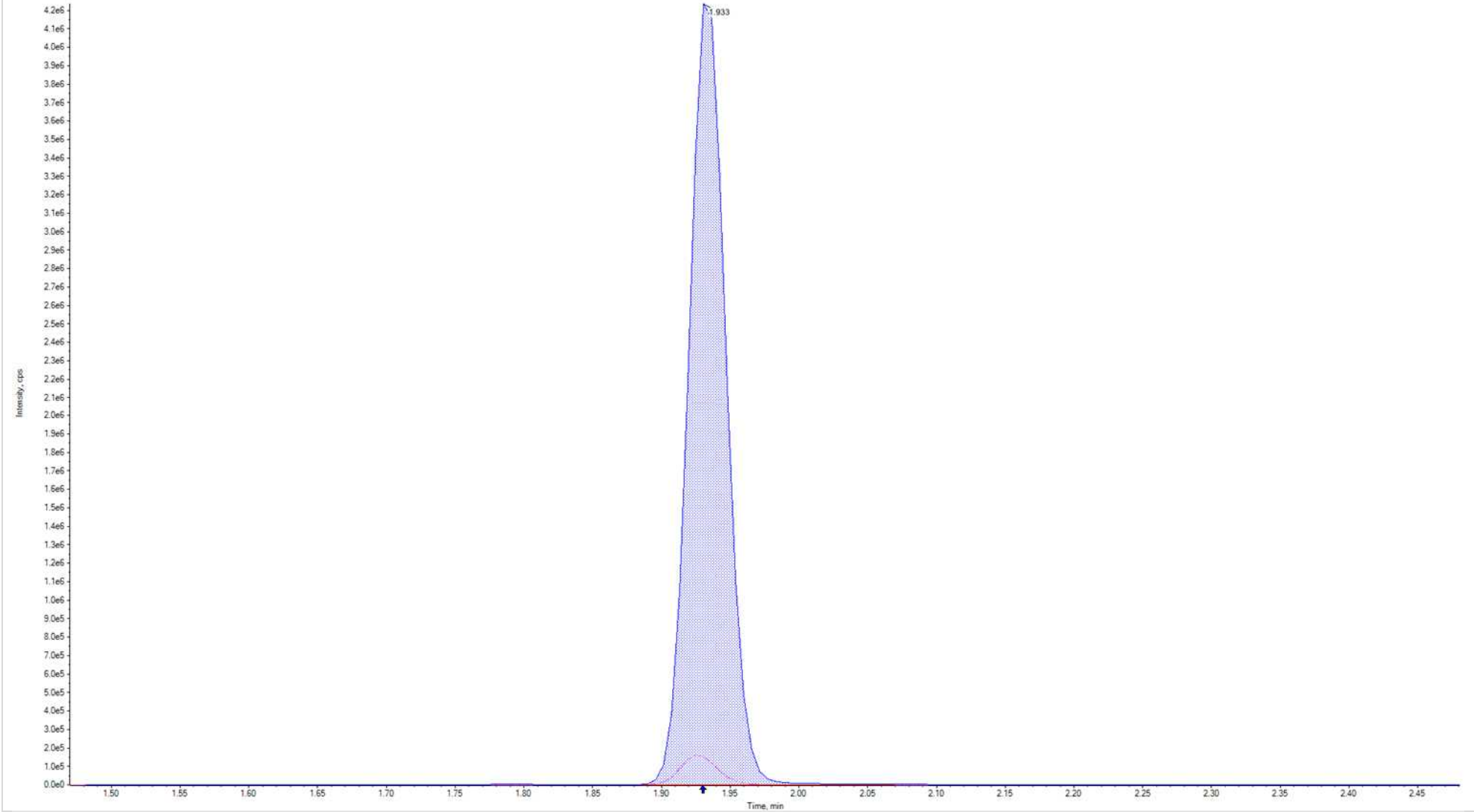
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Alpha Analytical LLC
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PFPeA_2
Sample: IA1633STD-50 S/N:2273.9 Points Across peak:45



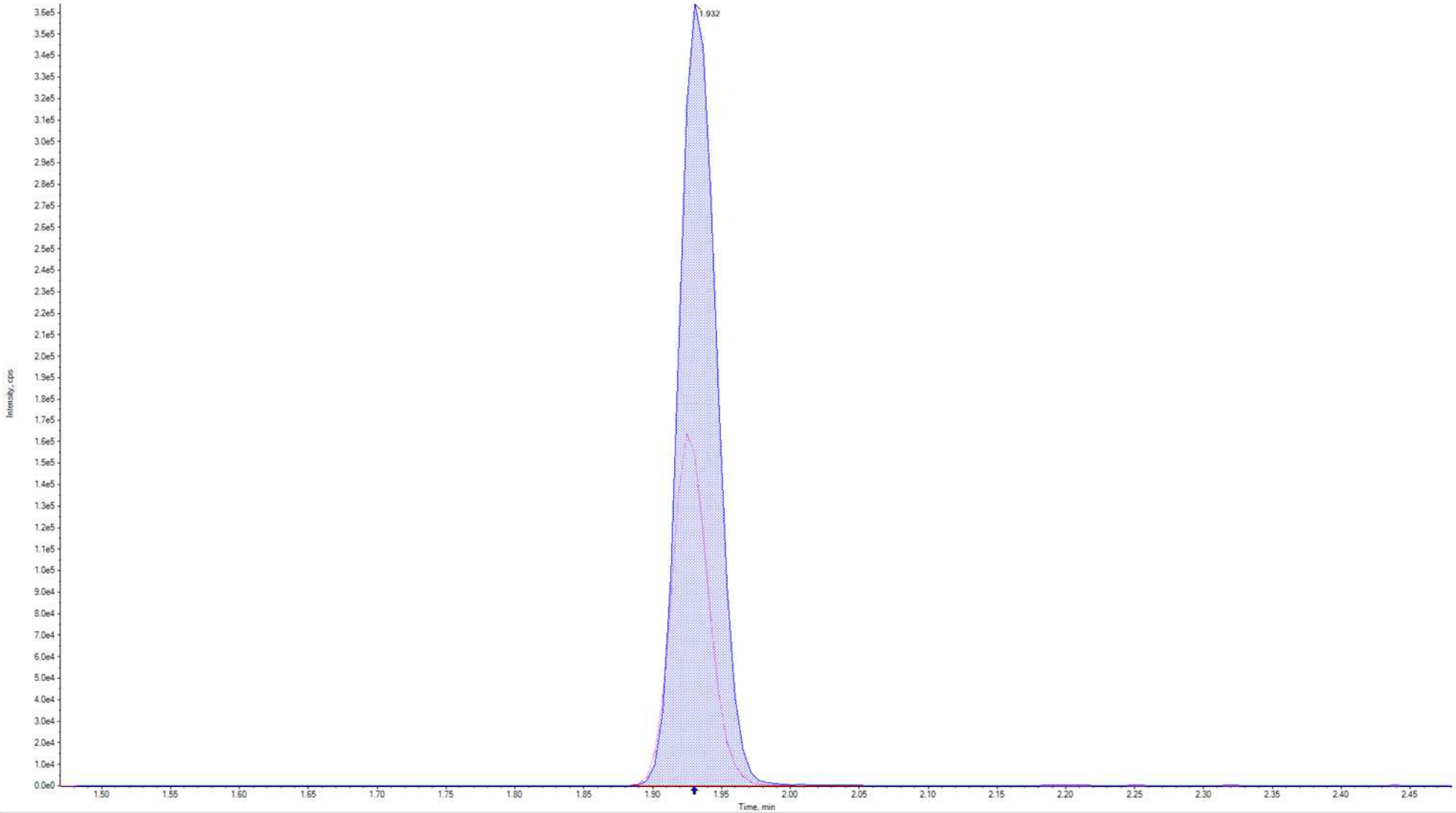
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Alpha Analytical LLC
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PFHxA
Sample: IA1633STD-50 S/N:30867.4 Points Across peak:35



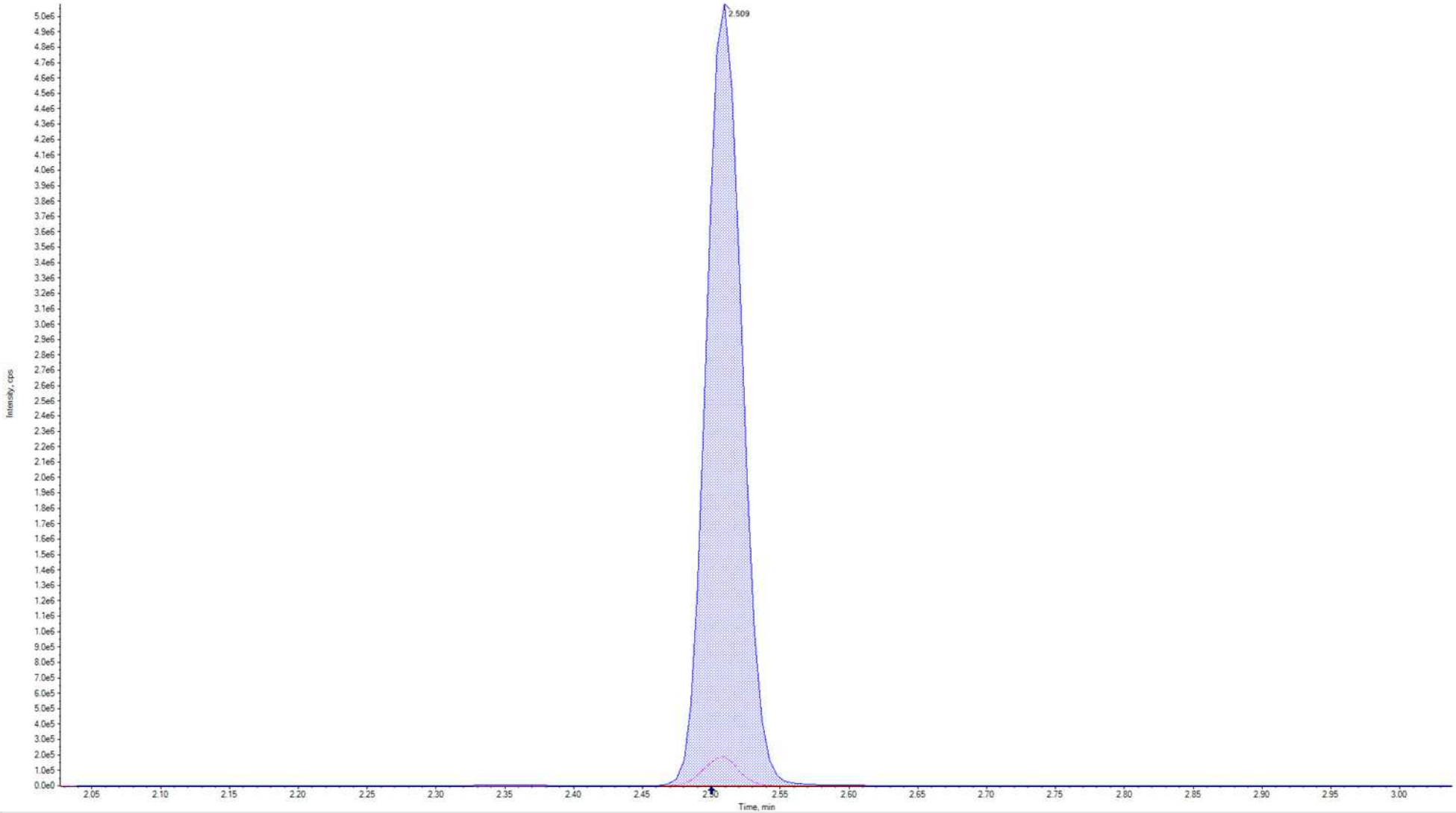
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Alpha Analytical LLC
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PFHxA_2
Sample: IA1633STD-50 S/N:9123.8 Points Across peak:34



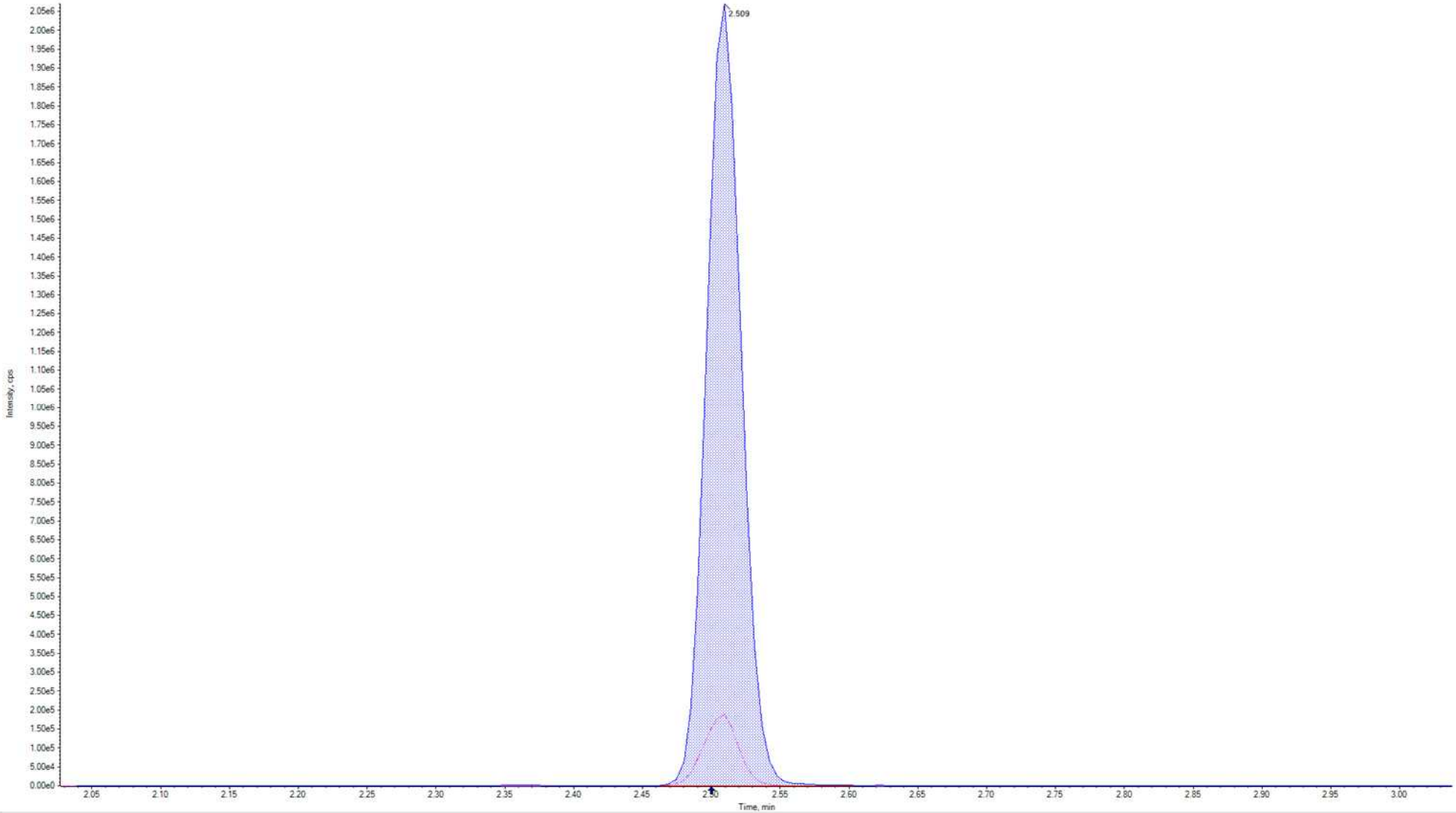
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Alpha Analytical LLC
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PFHpA
Sample: IA1633STD-50 S/N:16135.7 Points Across peak:37



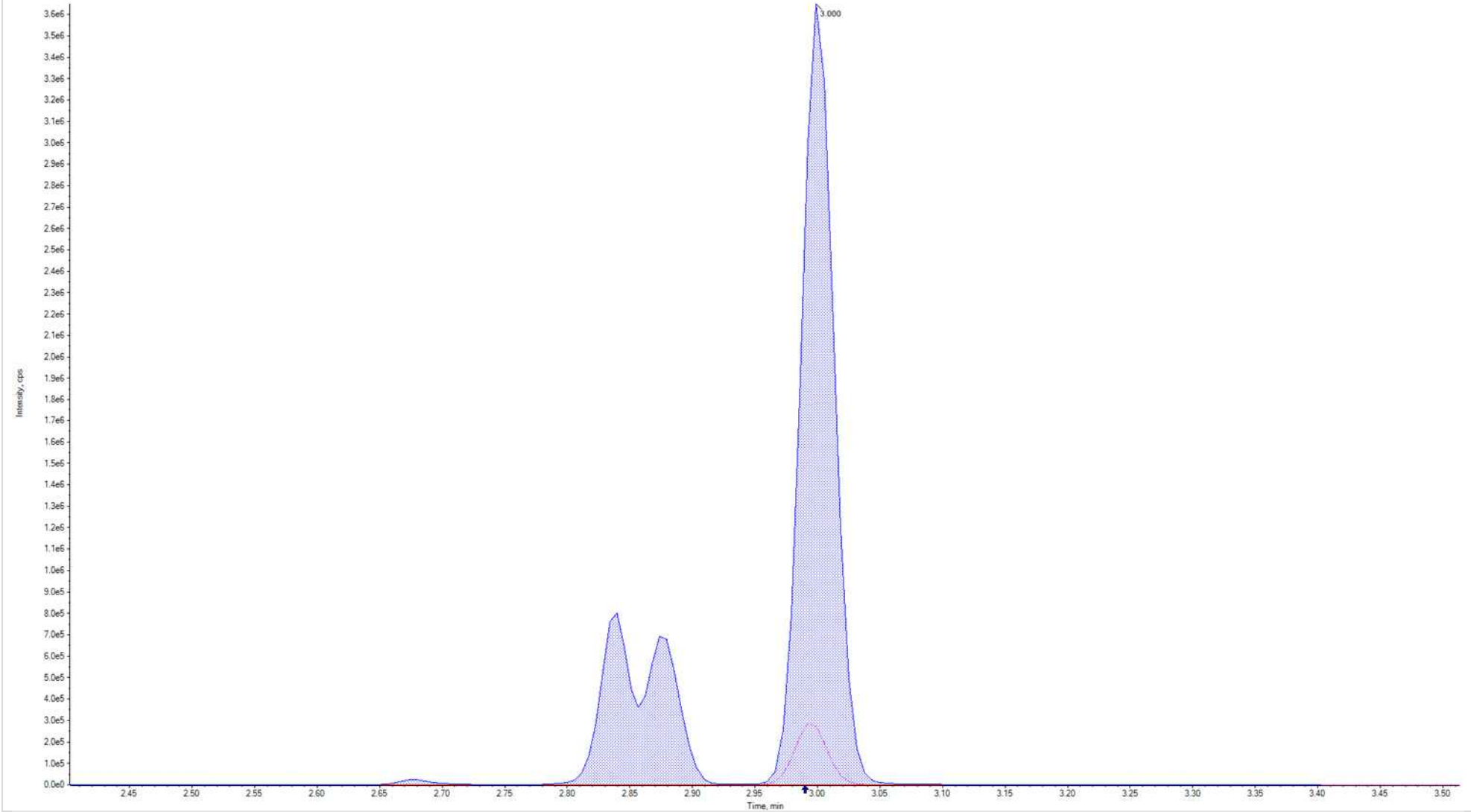
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Alpha Analytical LLC
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PFHpA_2
Sample: IA1633STD-50 S/N:41508.7 Points Across peak:30



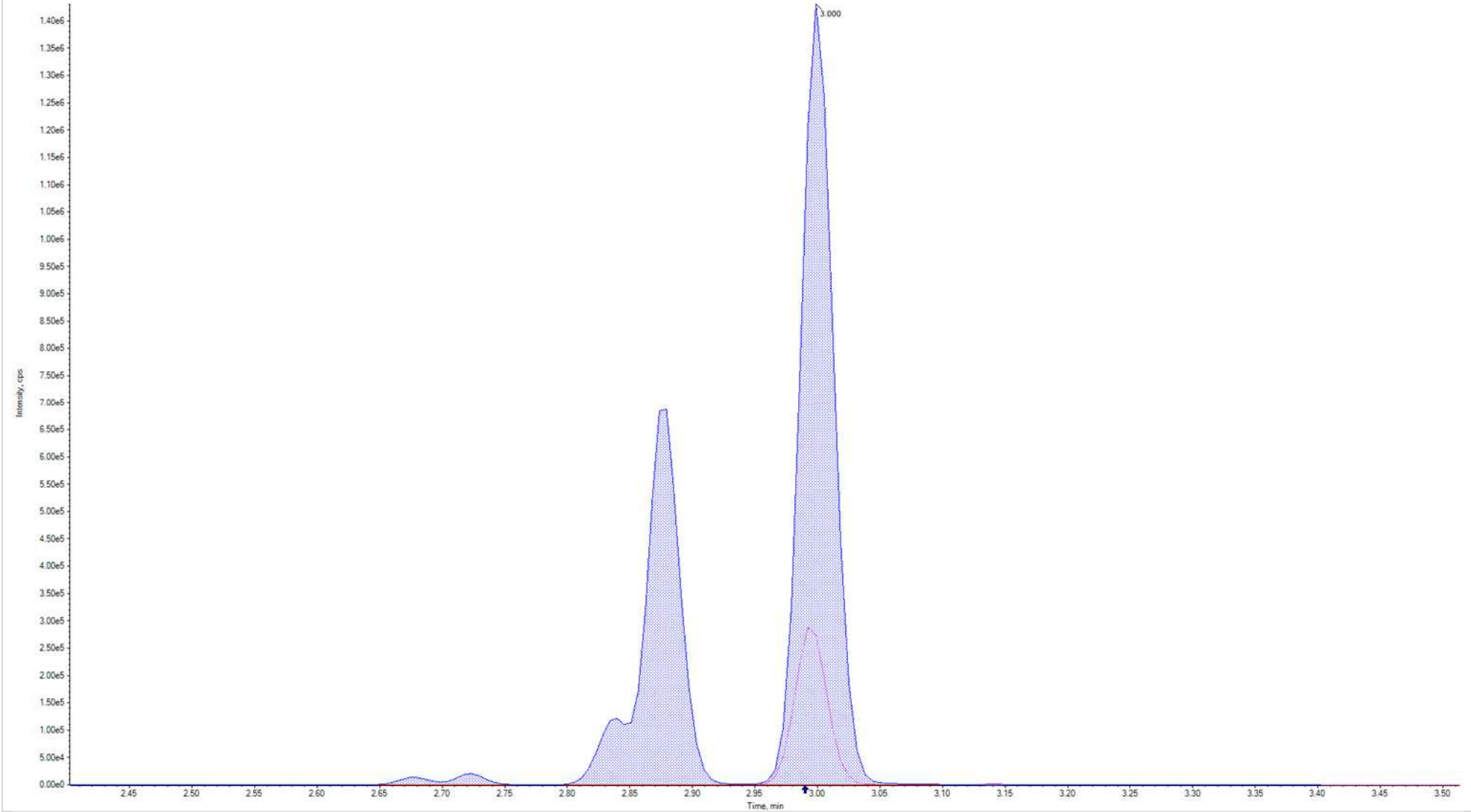
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Alpha Analytical LLC
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PFOA
Sample: IA1633STD-50 S/N:835.1 Points Across peak:80



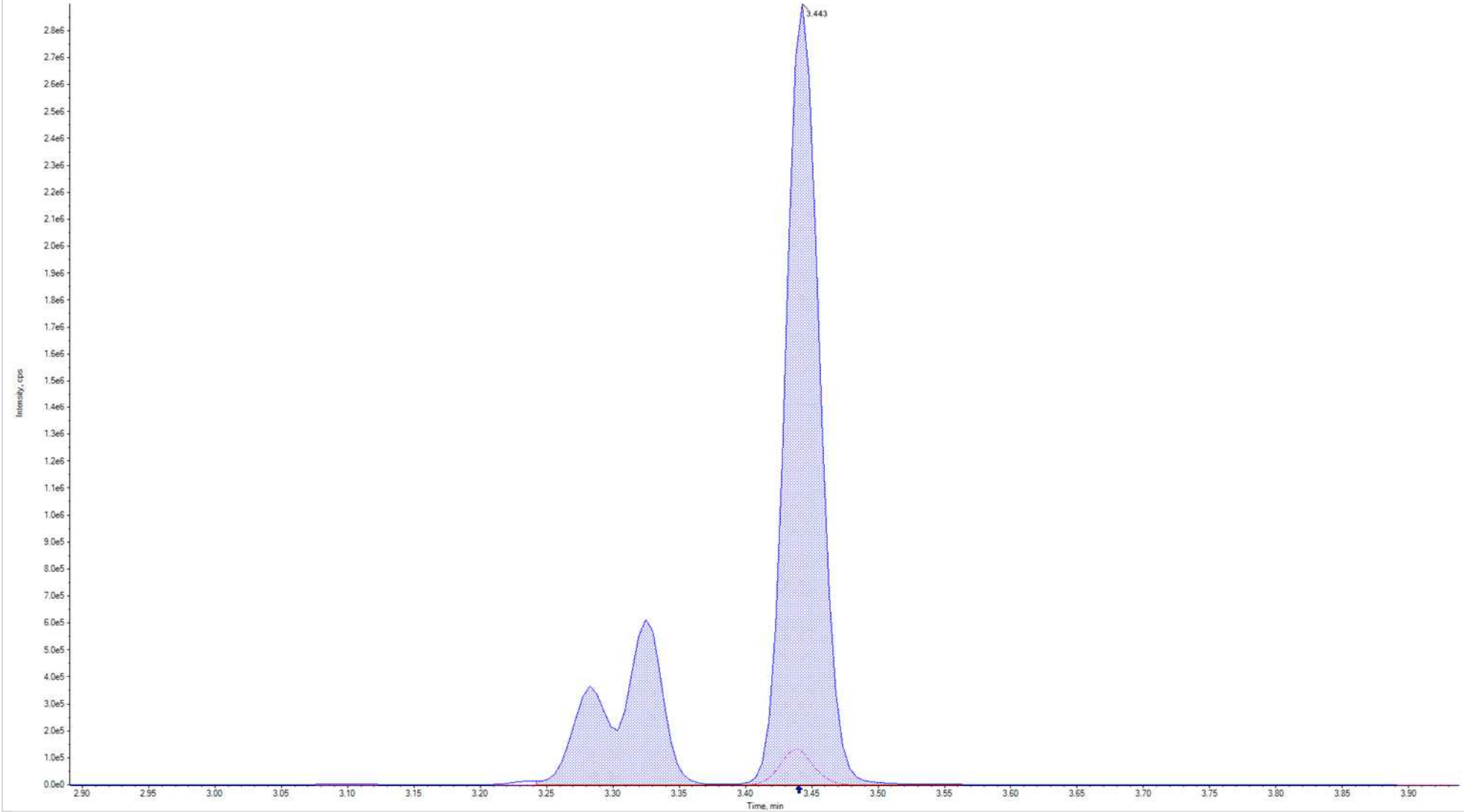
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_29.wiff2_8
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PFOA_2
Sample: IA1633STD-50 S/N:592.9 Points Across peak:78



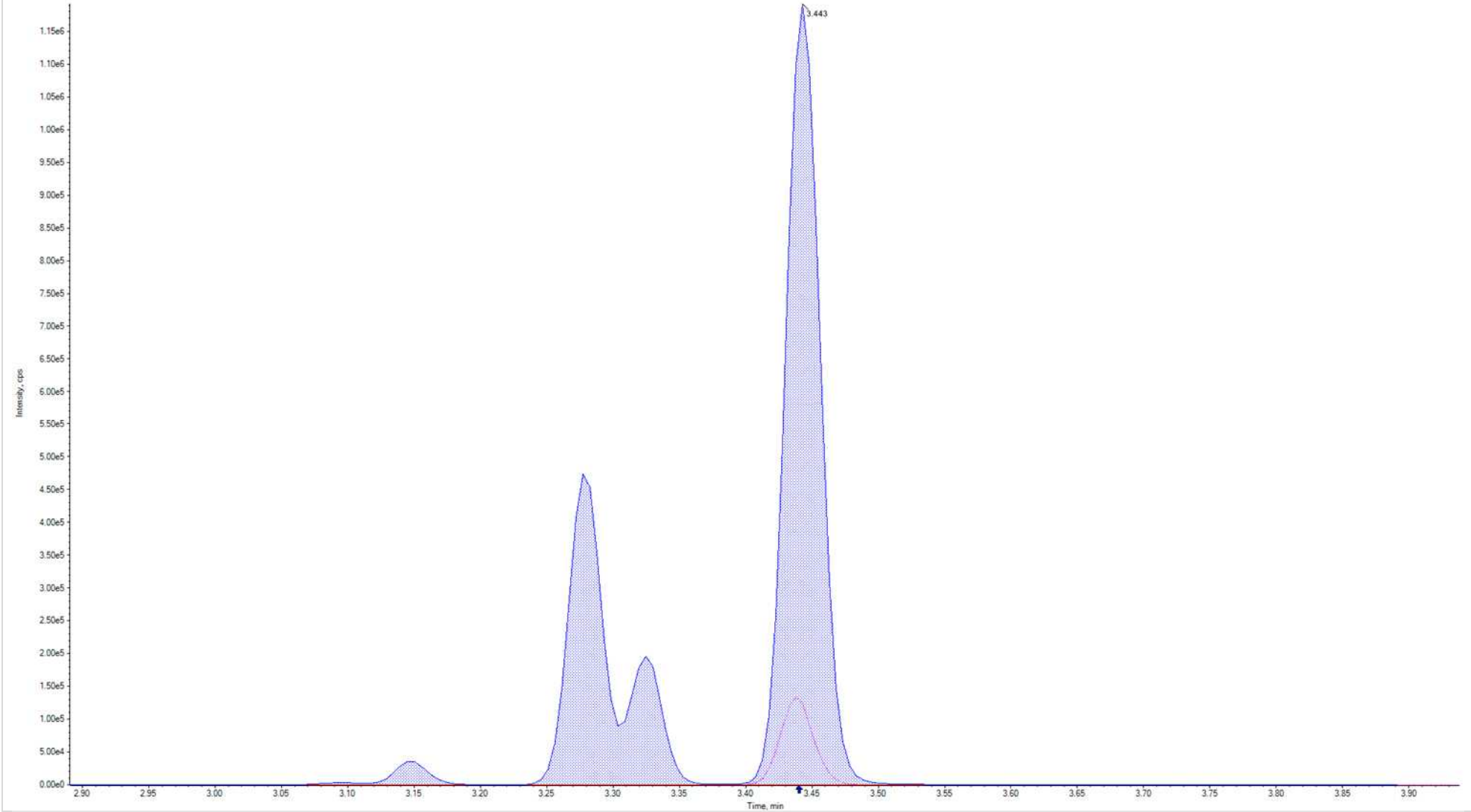
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Alpha Analytical LLC
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PFNA
Sample: IA1633STD-50 S/N:818.6 Points Across peak:63



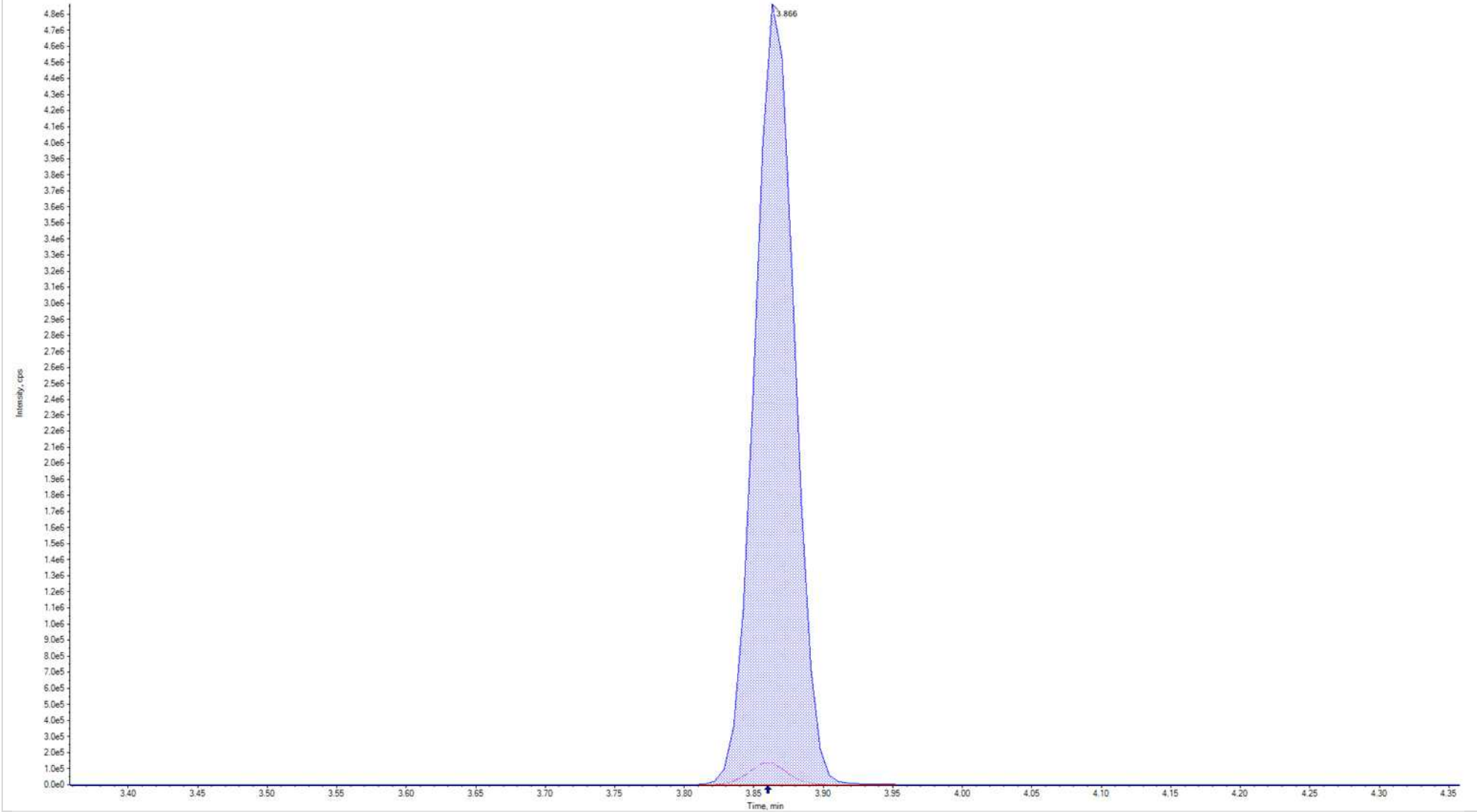
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PFNA_2
Sample: IA1633STD-50 S/N:467.4 Points Across peak:95



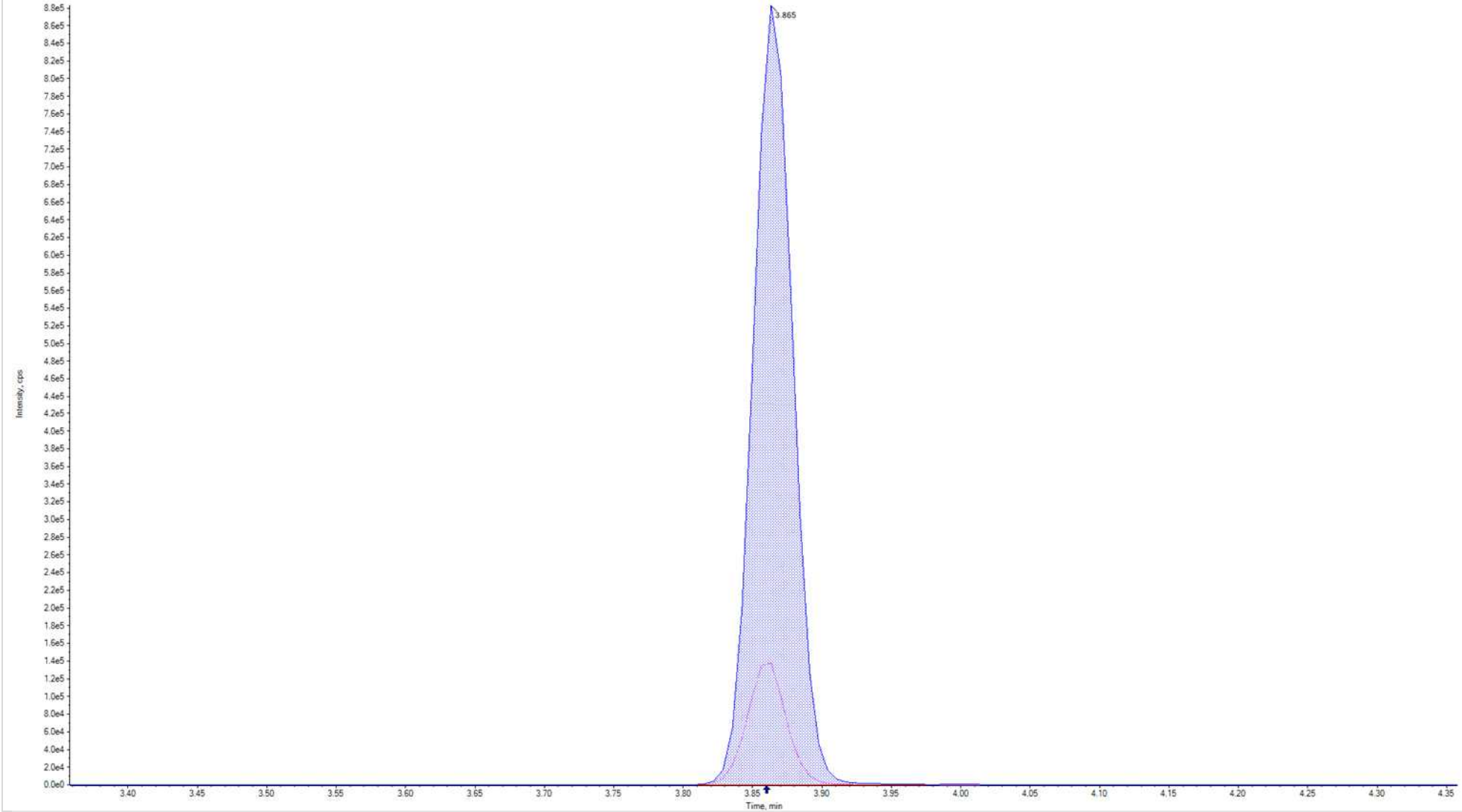
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PFDA
Sample: IA1633STD-50 S/N:97539.6 Points Across peak:32



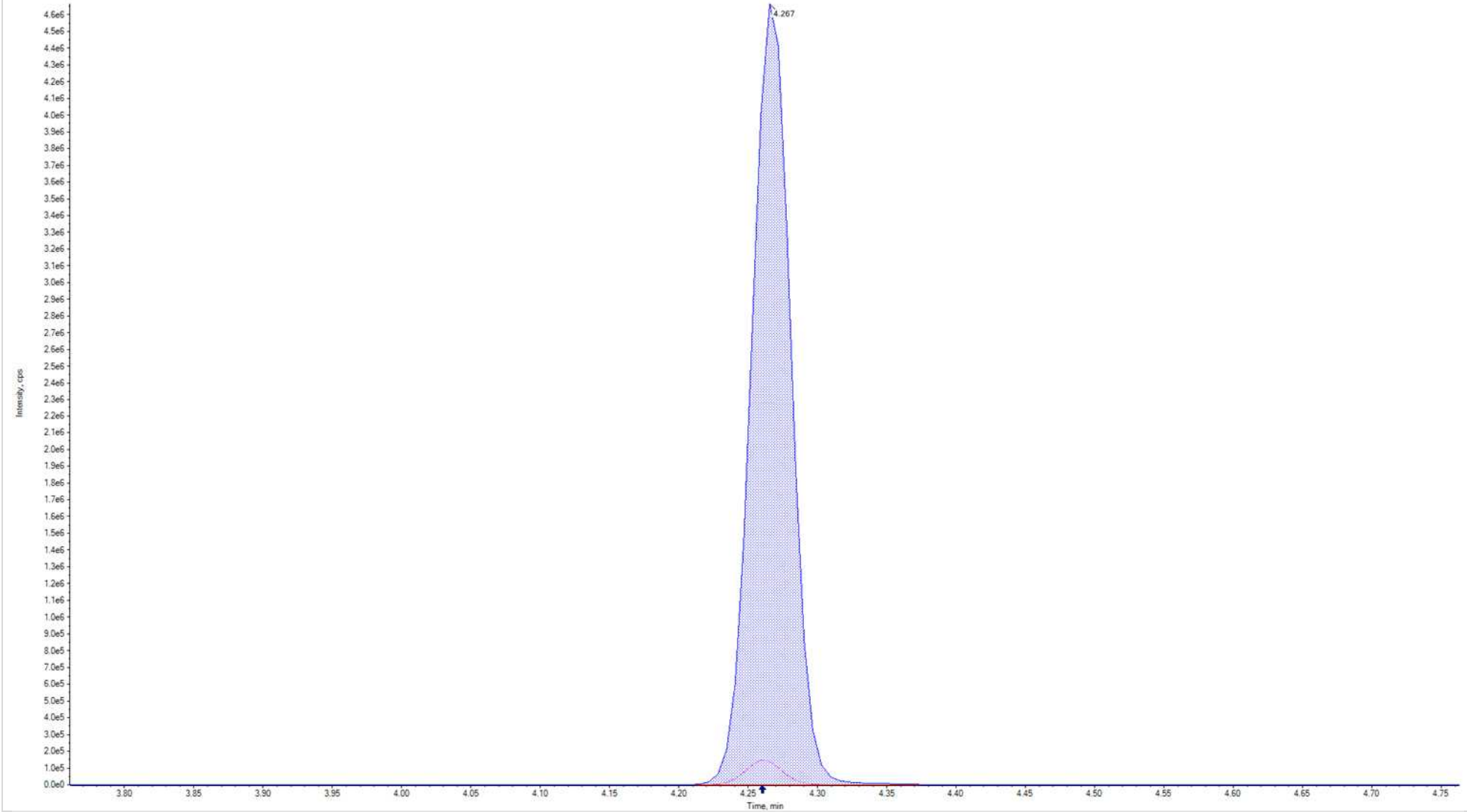
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PFDA_2
Sample: IA1633STD-50 S/N:5594.0 Points Across peak:29



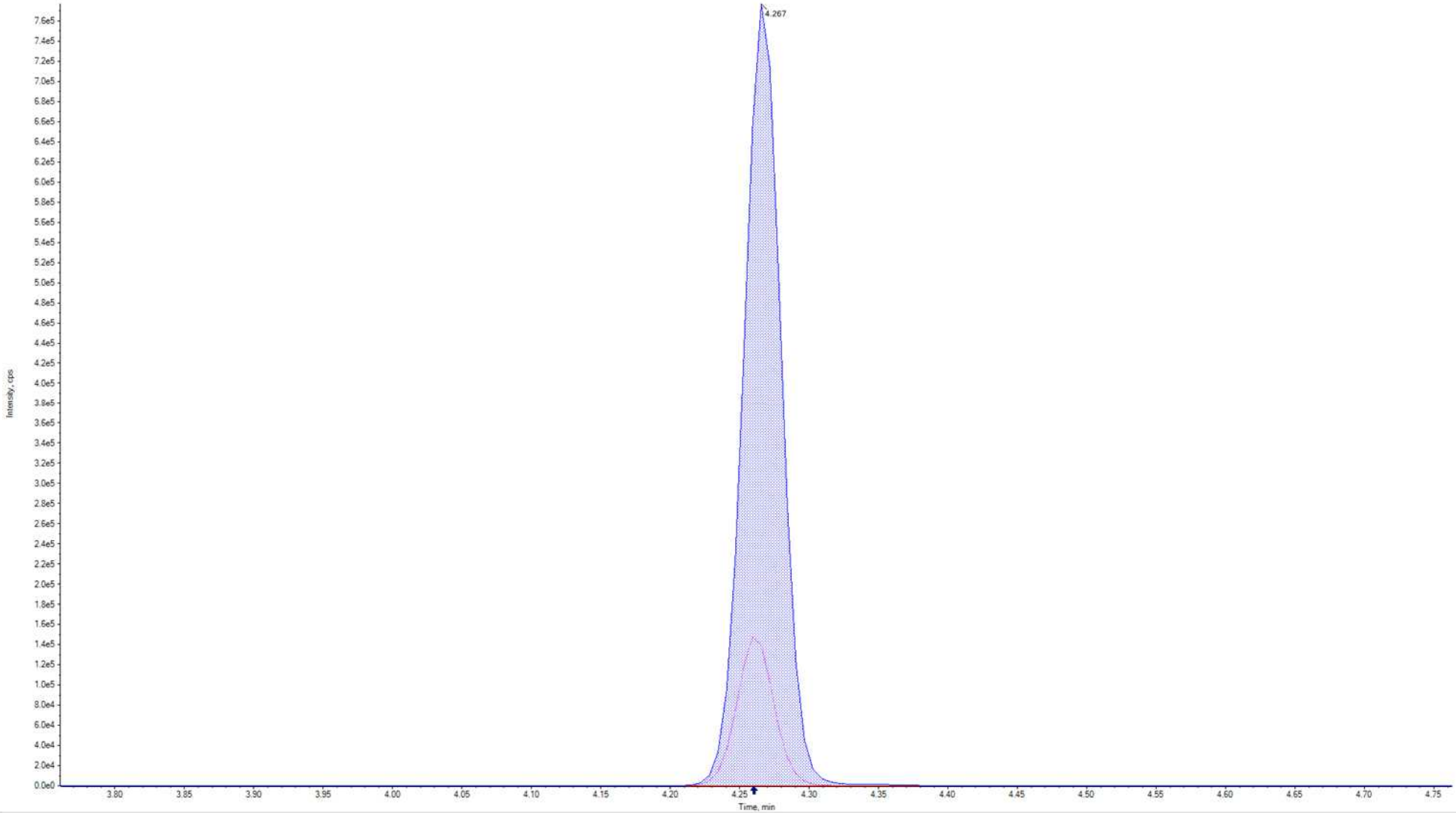
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PFUnA
Sample: IA1633STD-50 S/N:23879.4 Points Across peak:32



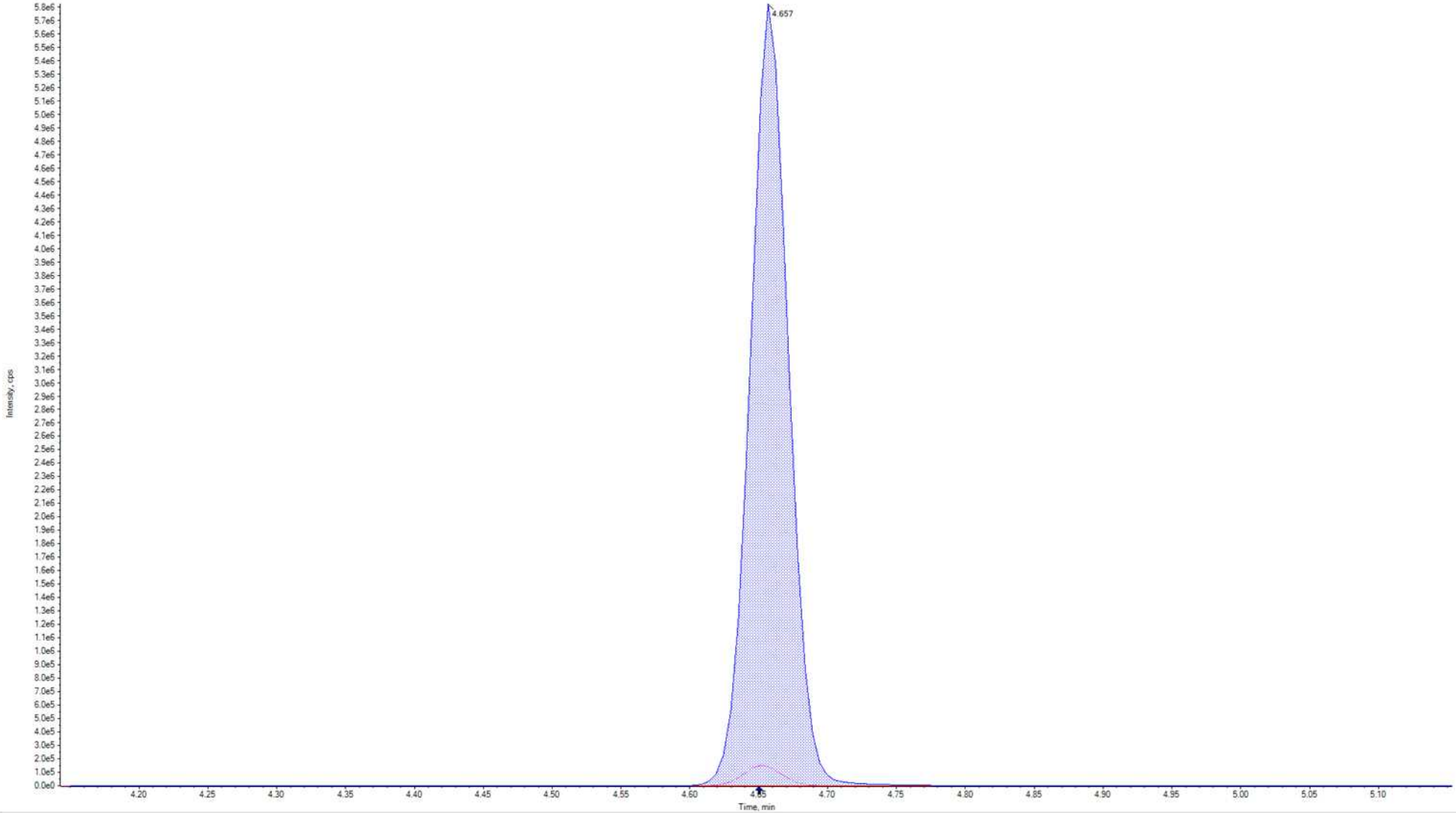
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PFUnA_2
Sample: IA1633STD-50 S/N:6114.1 Points Across peak:34



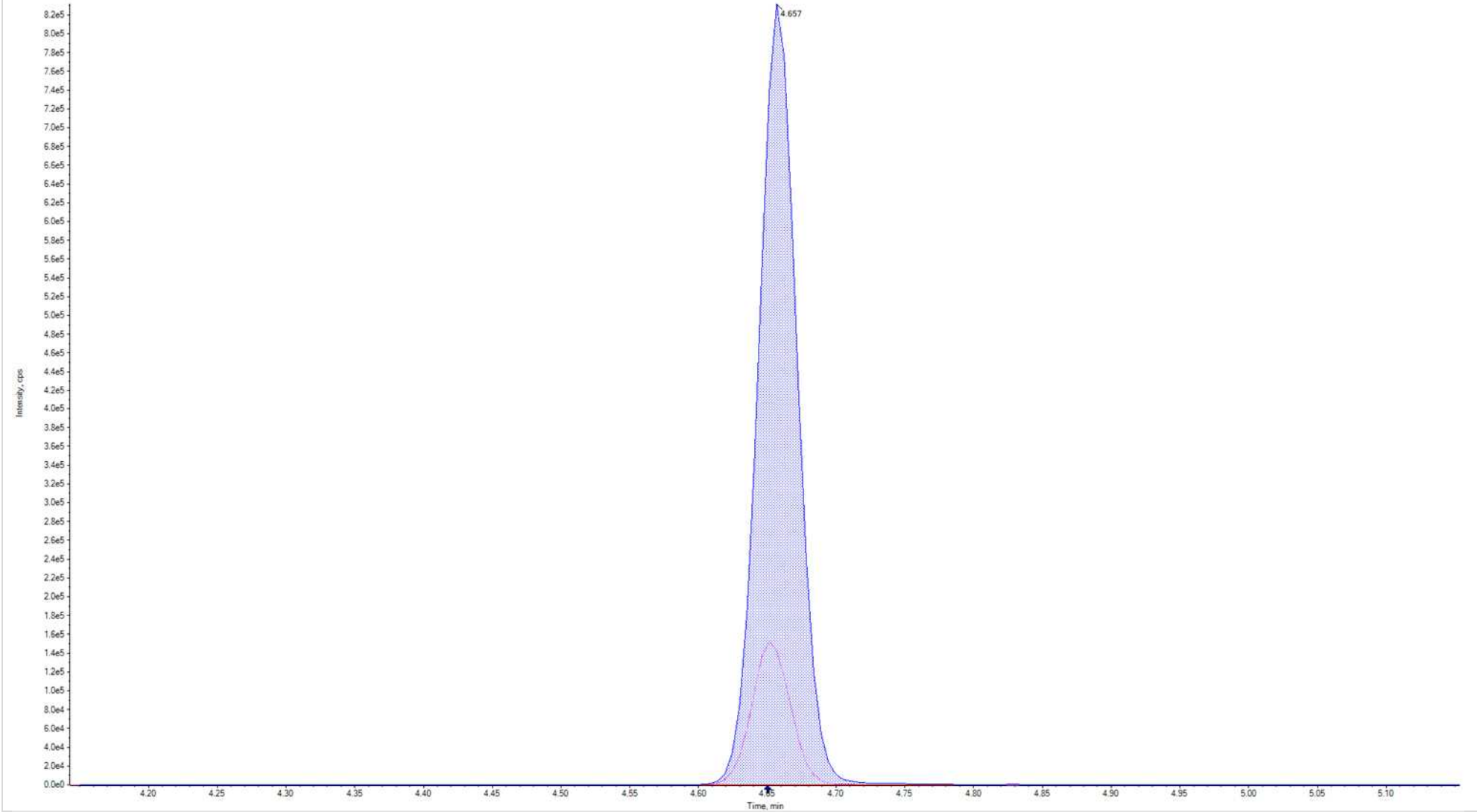
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PFDoA
Sample: IA1633STD-50 S/N:51154.4 Points Across peak:38



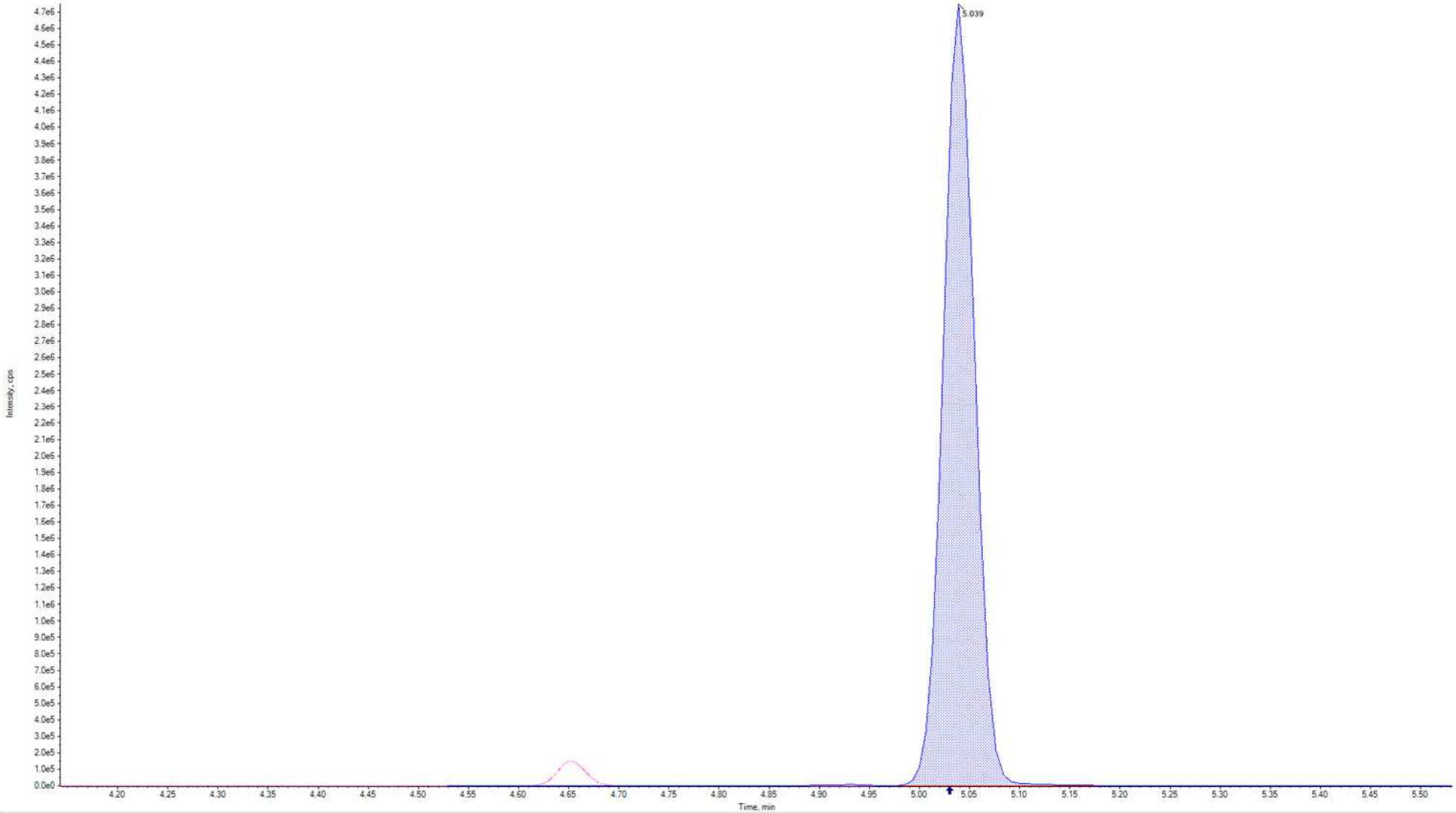
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PFDoA_2
Sample: IA1633STD-50 S/N:6661.9 Points Across peak:43



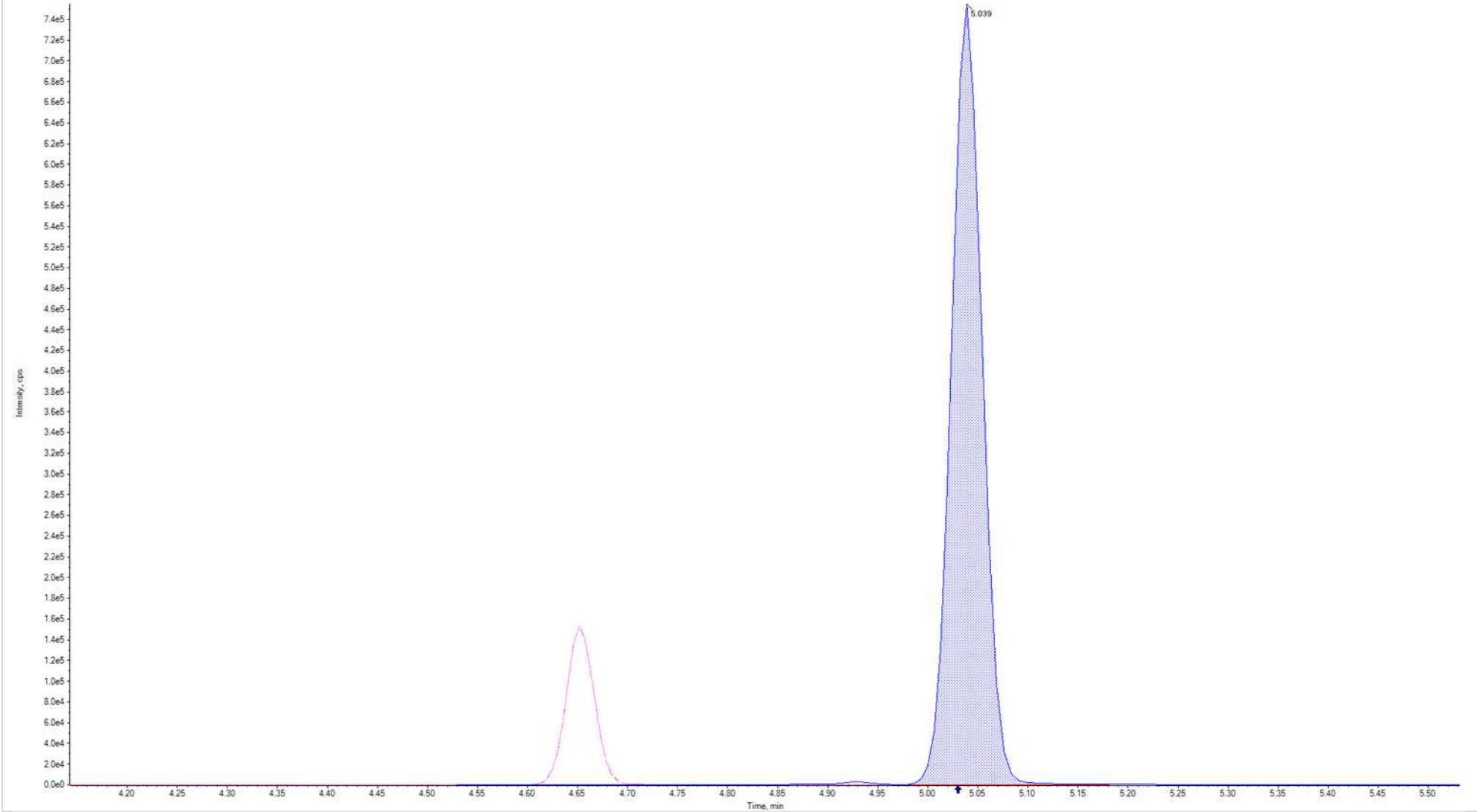
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PFTrDA
Sample: IA1633STD-50 S/N:35068.5 Points Across peak:34



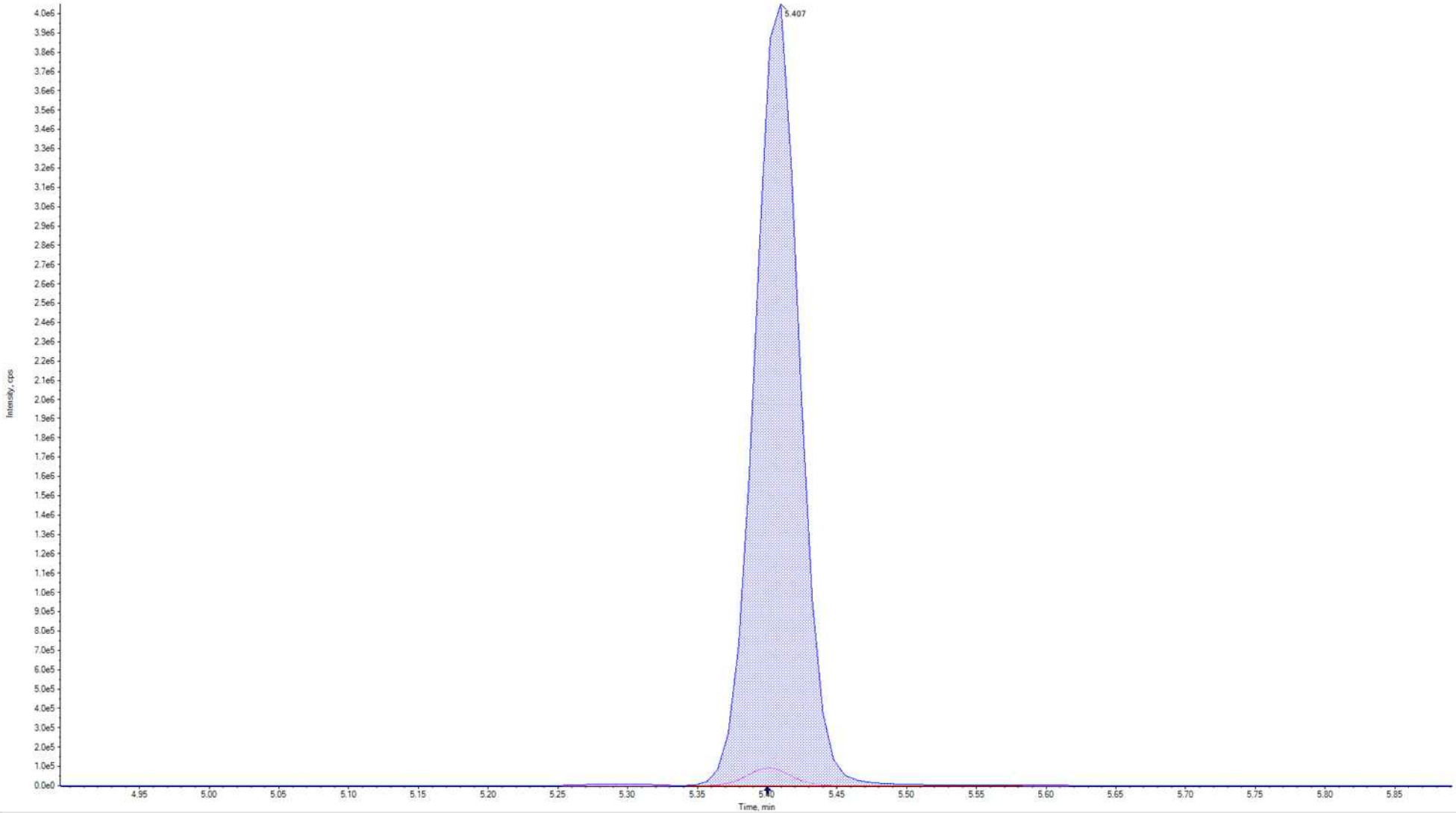
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PFTrDA_2
Sample: IA1633STD-50 S/N:30282.4 Points Across peak:30



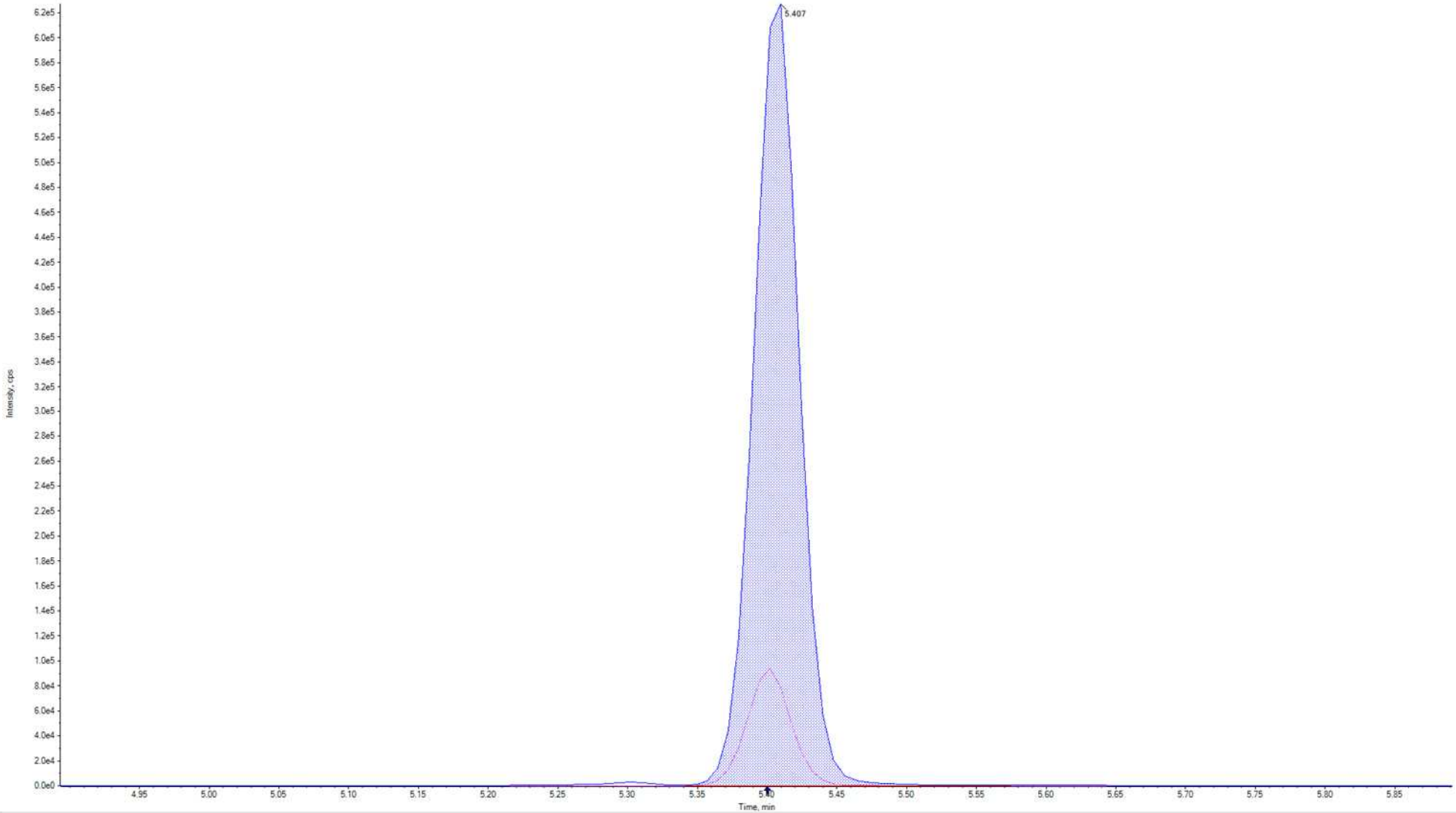
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PFTeDA
Sample: IA1633STD-50 S/N:12757.3 Points Across peak:31



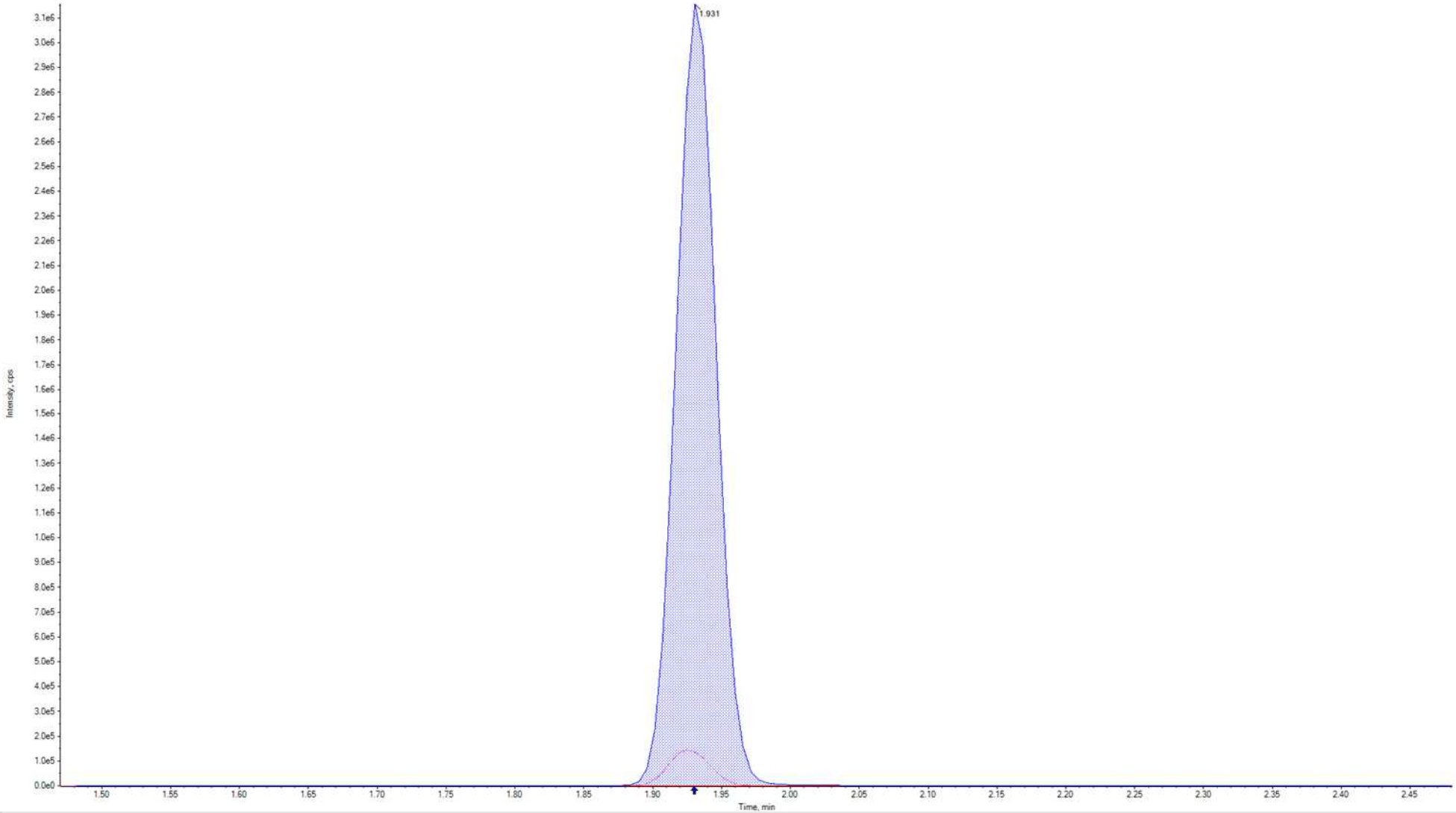
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PFTeDA_2
Sample: IA1633STD-50 S/N:39297.8 Points Across peak:29



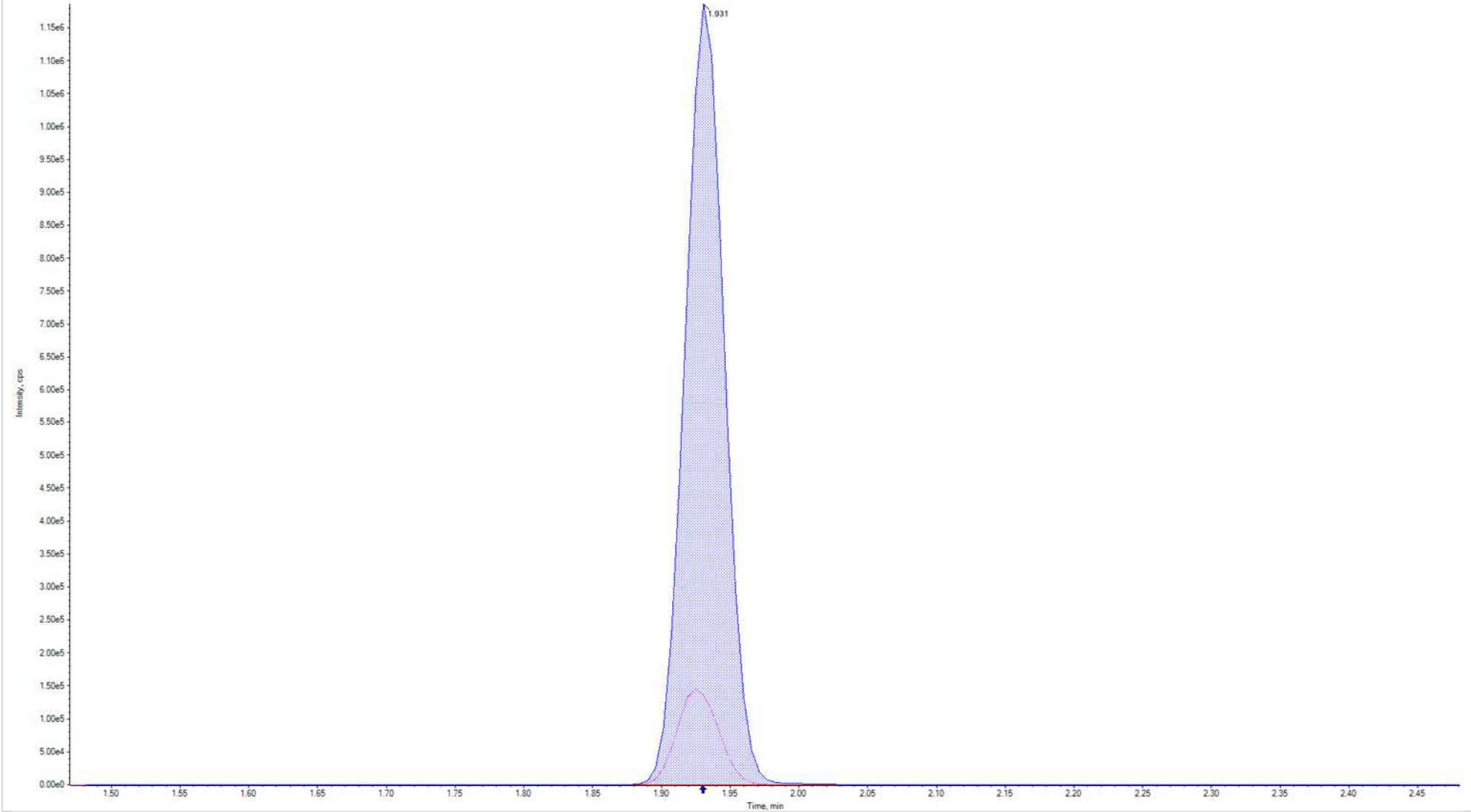
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PFBS
Sample: IA1633STD-50 S/N:5415.3 Points Across peak:36



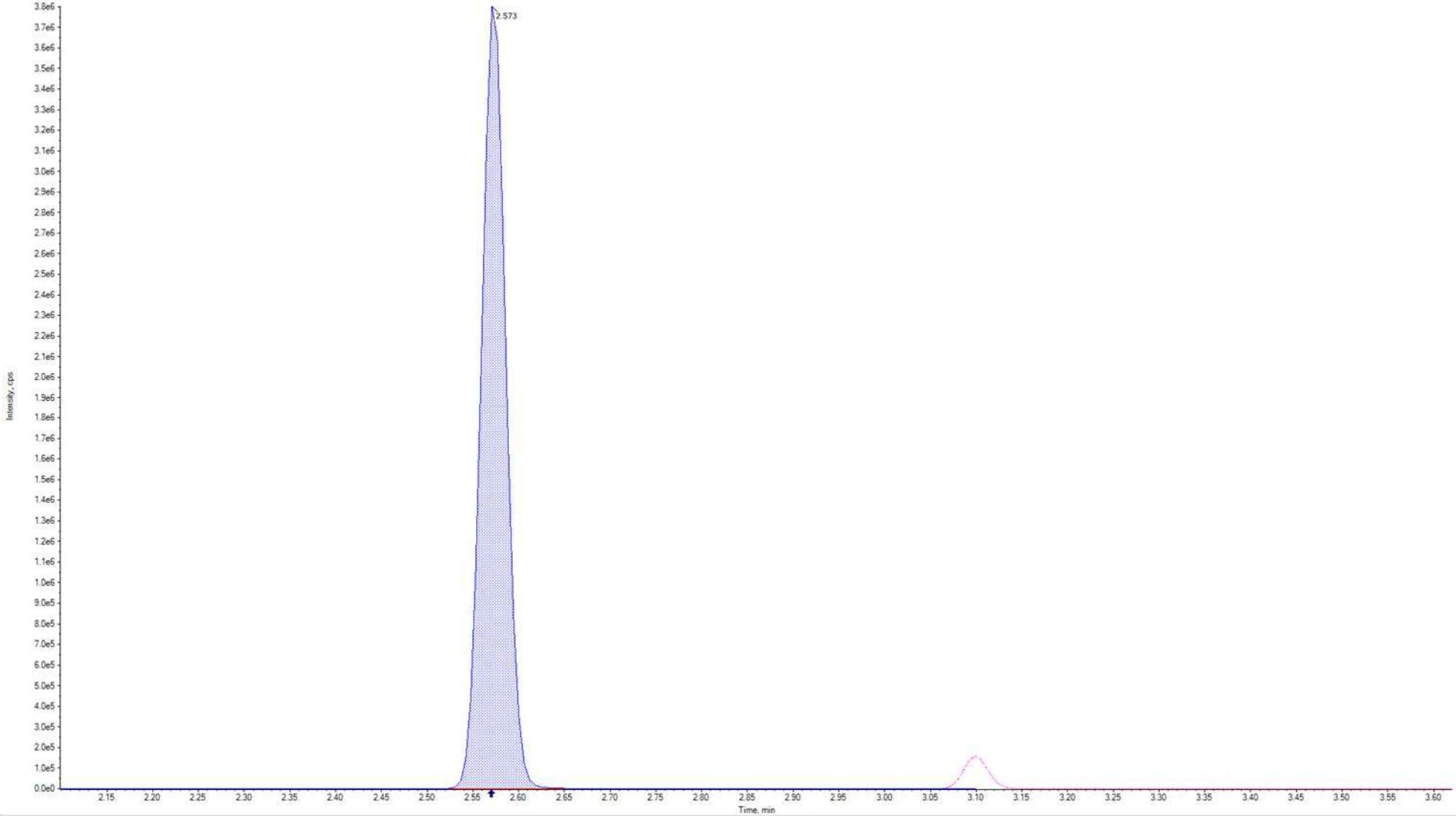
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PFBS_2
Sample: IA1633STD-50 S/N:29737.3 Points Across peak:39



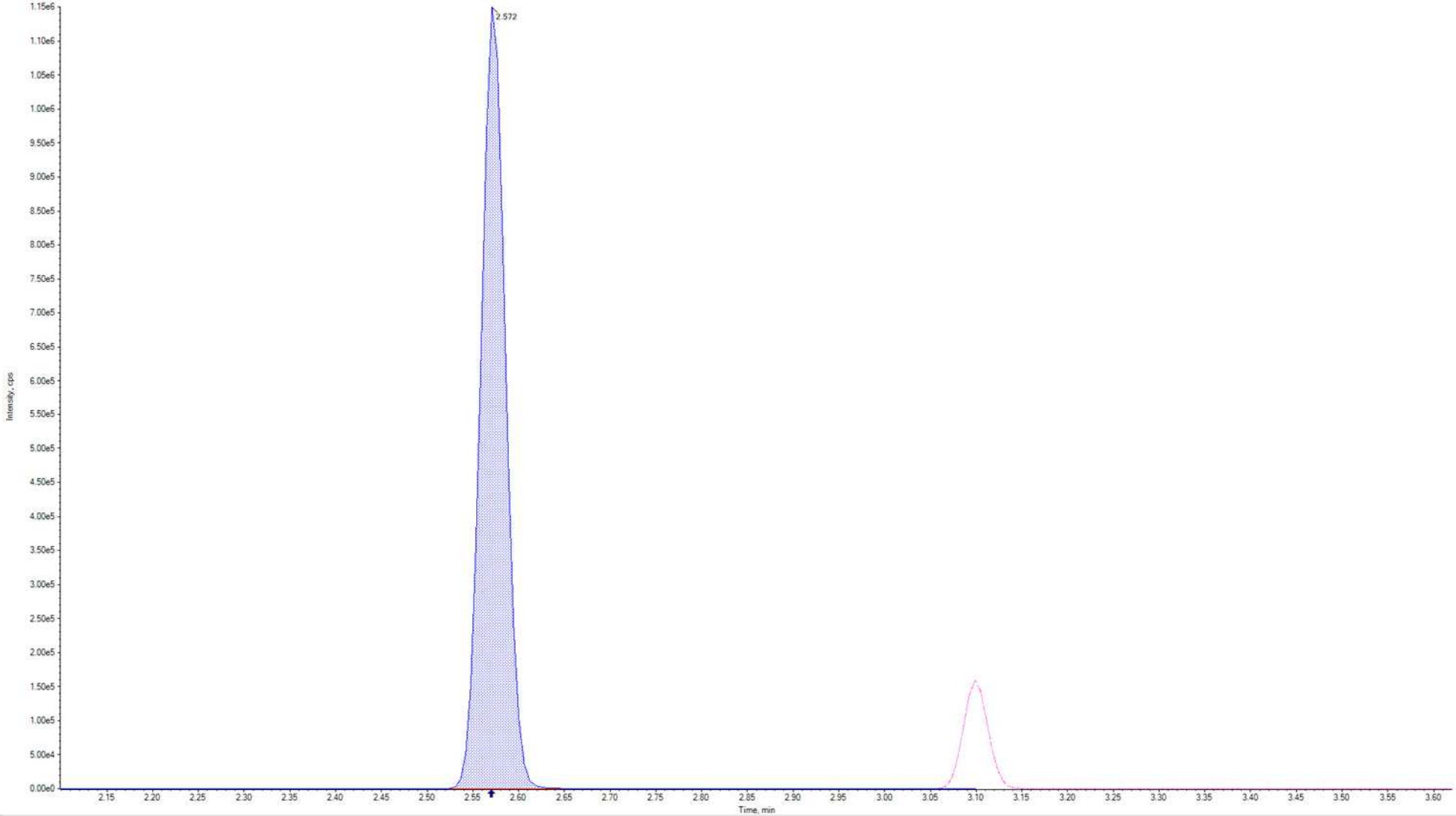
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PFPeS
Sample: IA1633STD-50 S/N:7981.3 Points Across peak:28



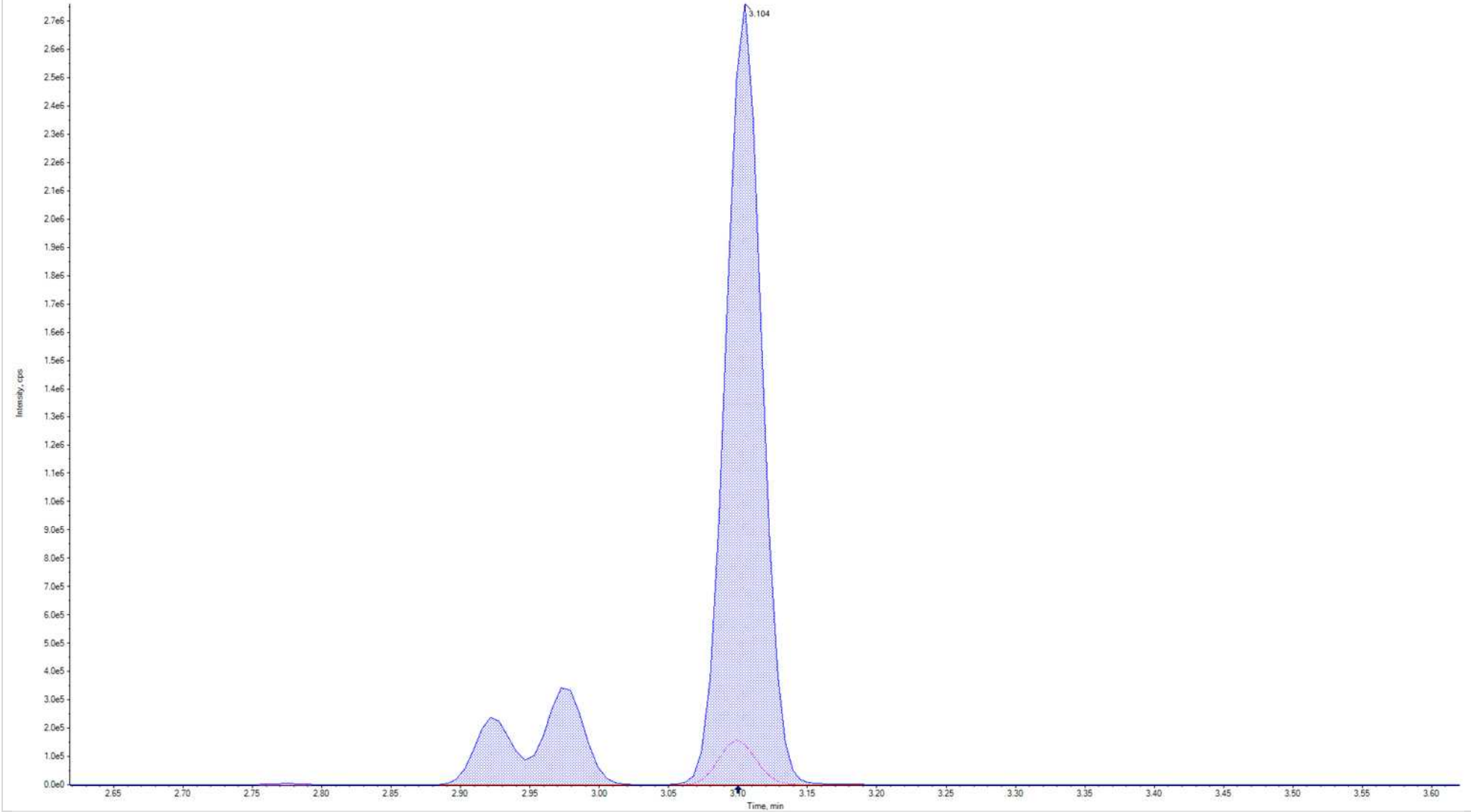
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PFPeS_2
Sample: IA1633STD-50 S/N:6582.0 Points Across peak:33



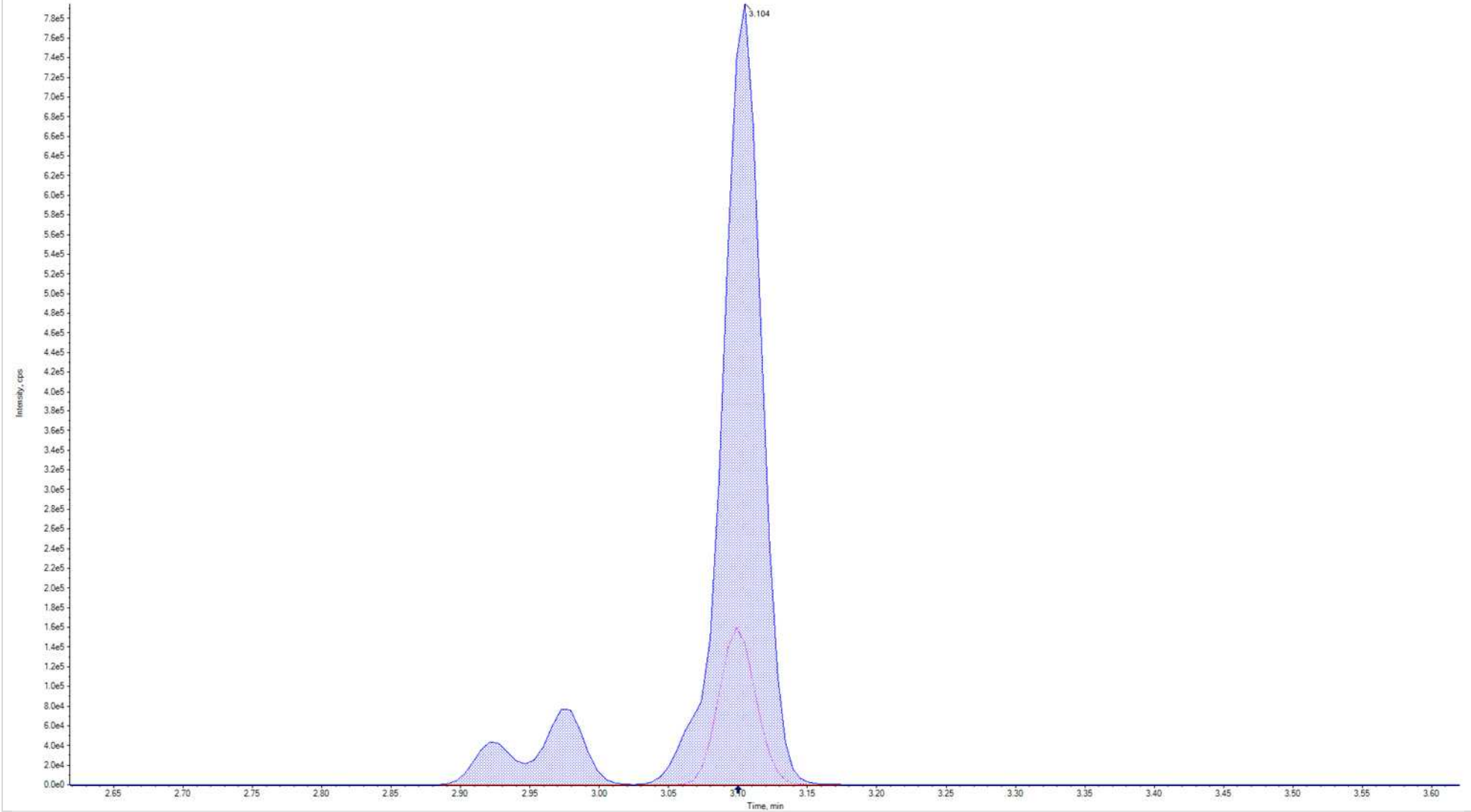
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Alpha Analytical LLC
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PFHxS
Sample: IA1633STD-50 S/N:1374.2 Points Across peak:56



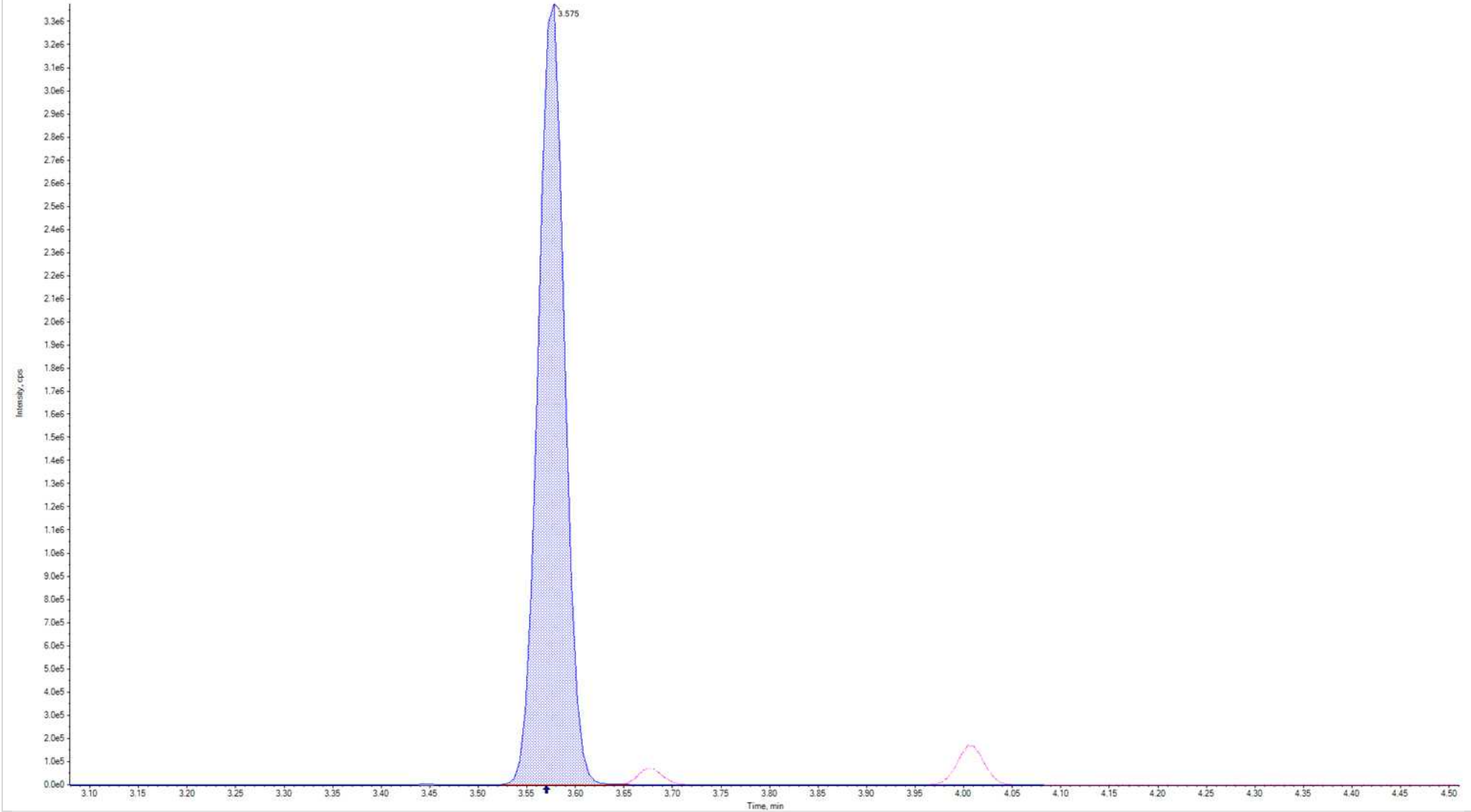
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Alpha Analytical LLC
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PFHxS_2
Sample: IA1633STD-50 S/N:1550.8 Points Across peak:54



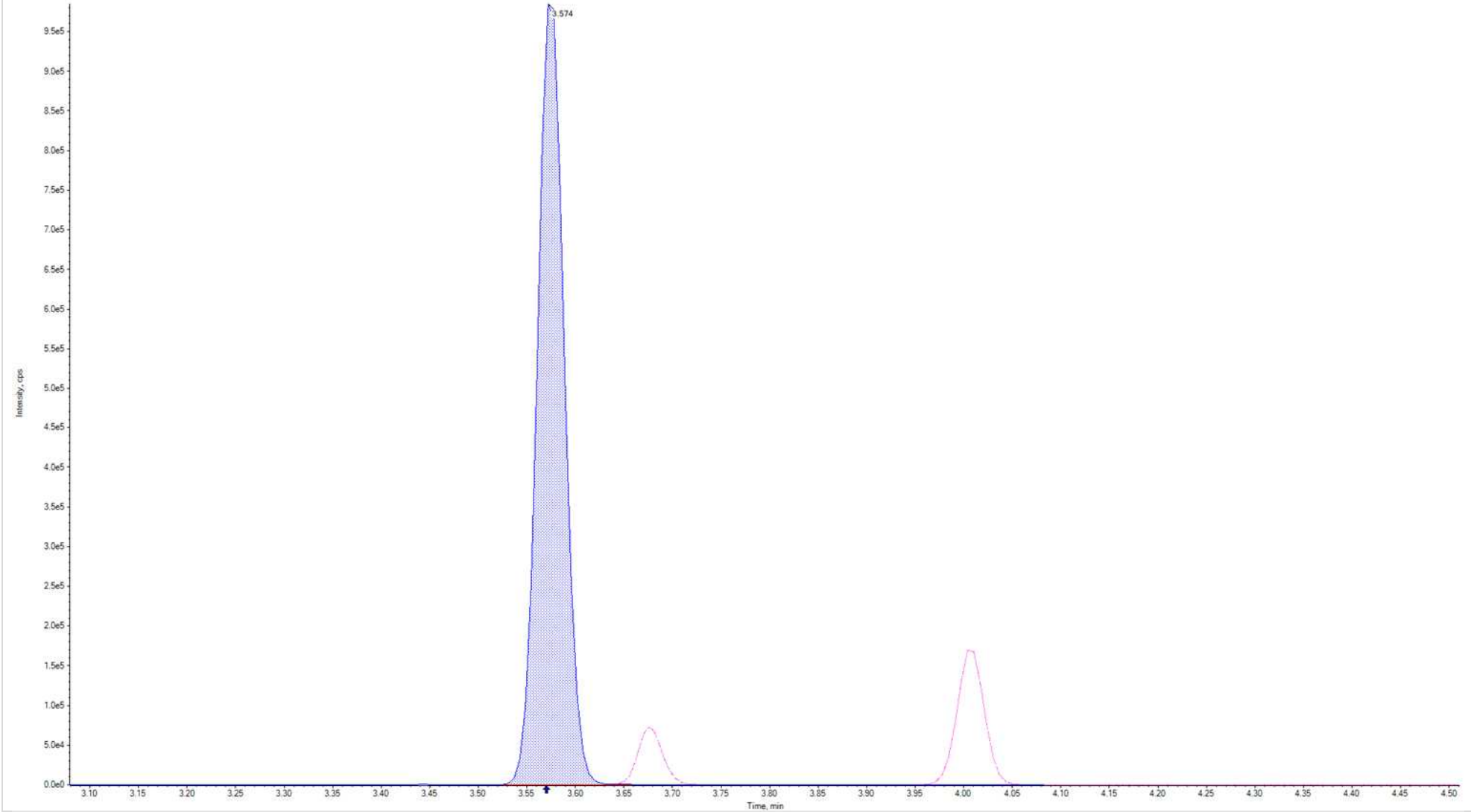
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Alpha Analytical LLC
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PFHpS
Sample: IA1633STD-50 S/N:12199.8 Points Across peak:41



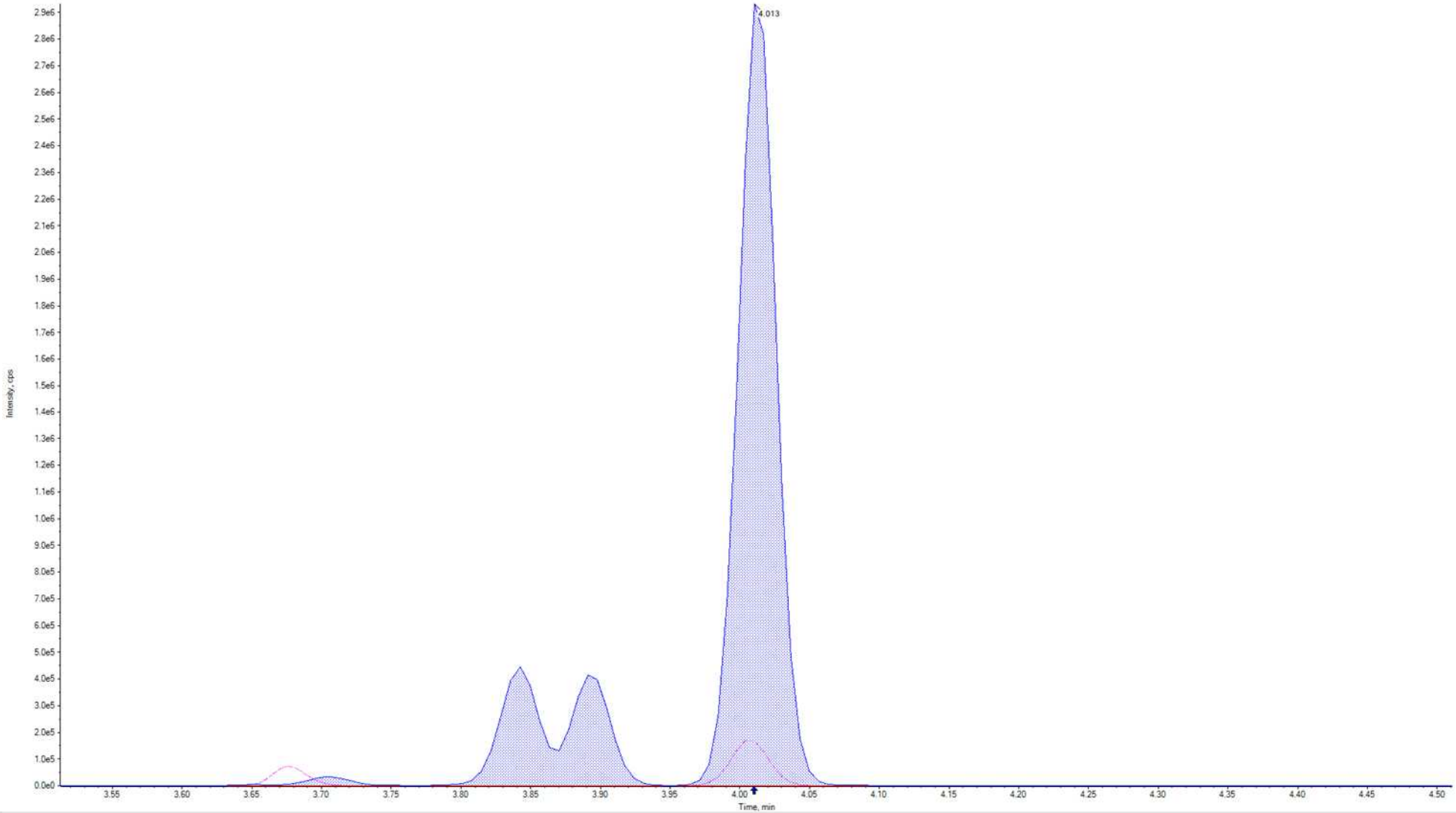
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Alpha Analytical LLC
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PFHpS_2
Sample: IA1633STD-50 S/N:12439.3 Points Across peak:35



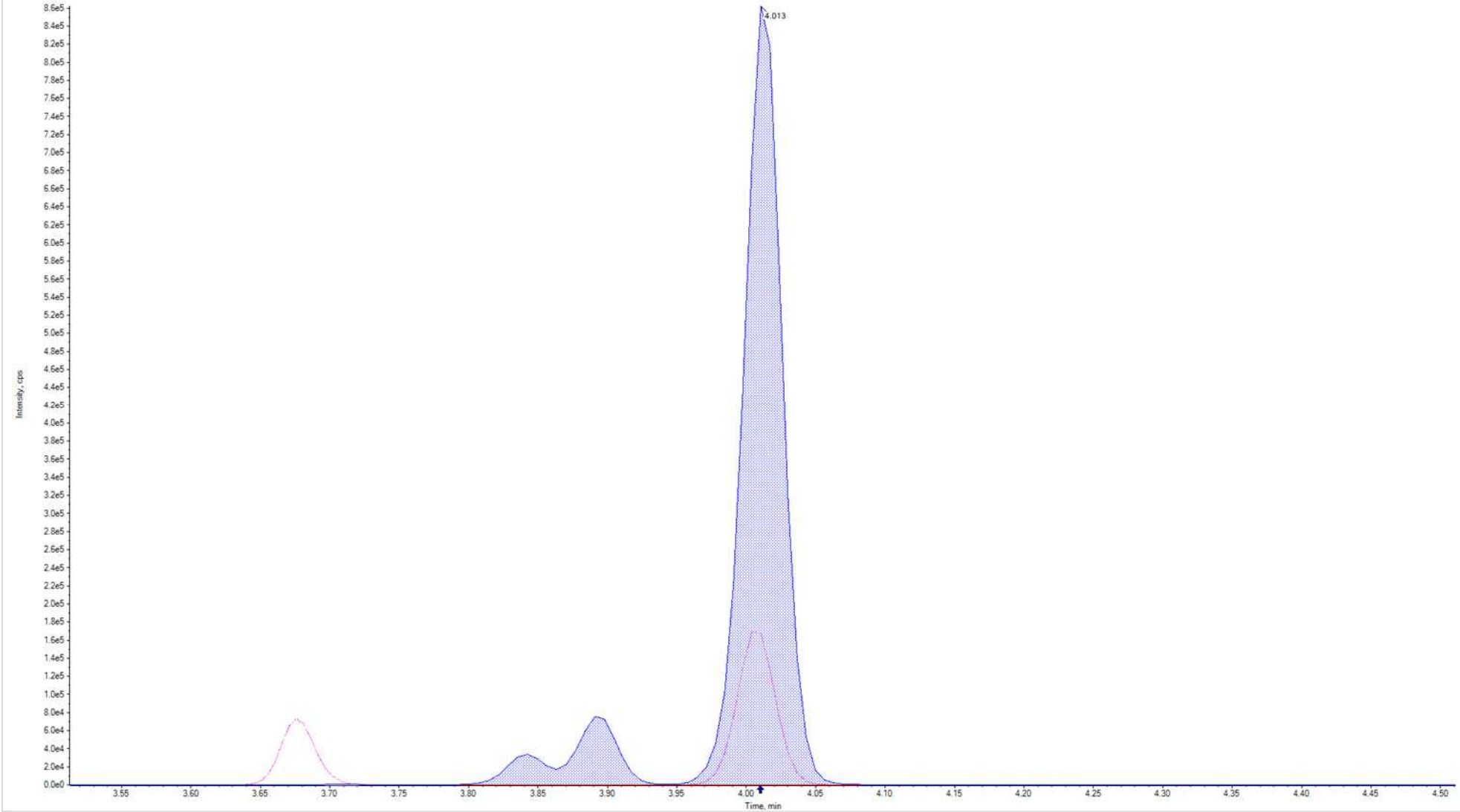
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

PFOS
Sample: IA1633STD-50 S/N:633.4 Points Across peak:77



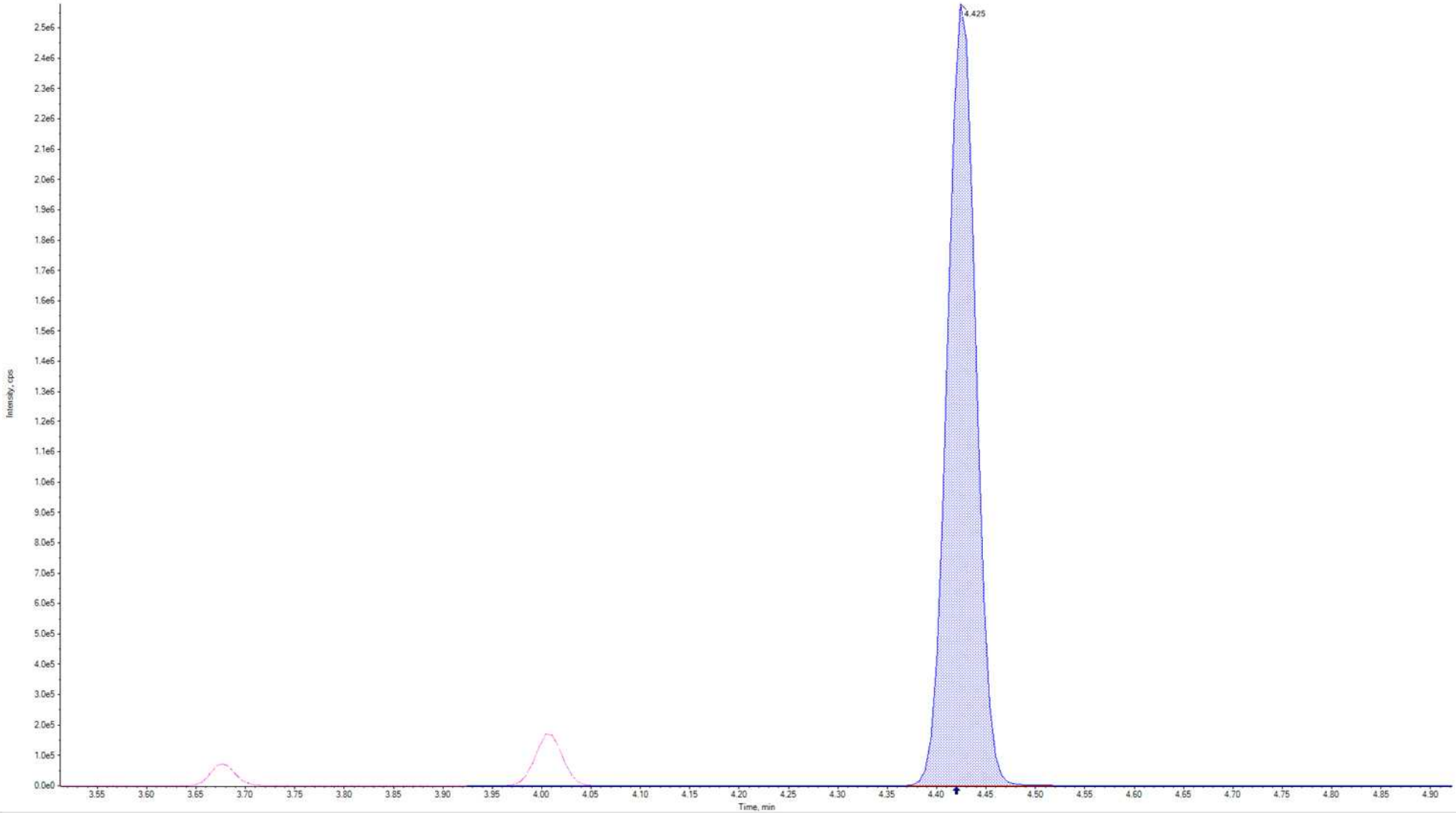
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Alpha Analytical LLC
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PFOS_2
Sample: IA1633STD-50 S/N:1452.3 Points Across peak:52



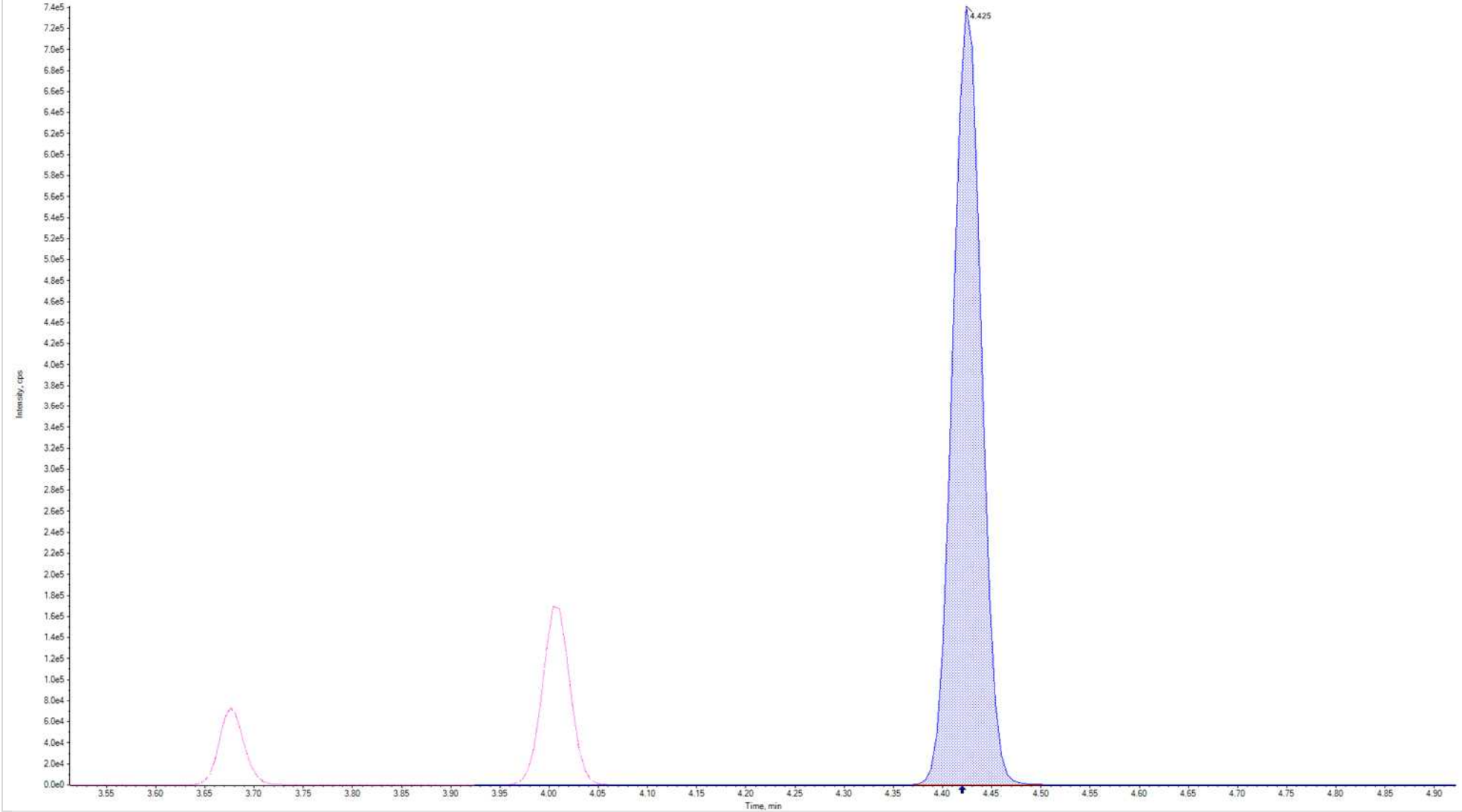
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS
Sample: IA1633STD-50 S/N:64649.4 Points Across peak:38



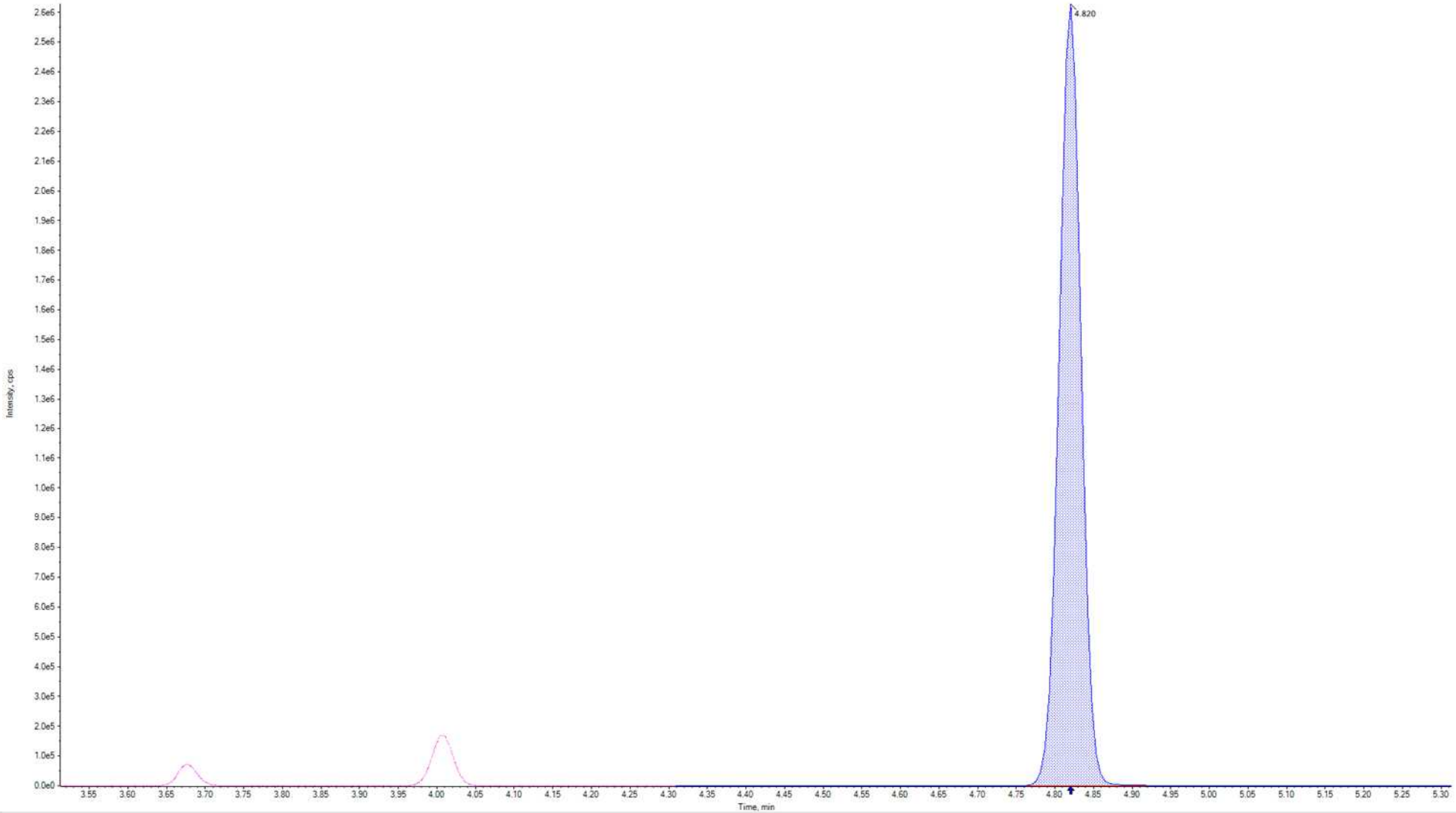
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Alpha Analytical LLC
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PFNS_2
Sample: IA1633STD-50 S/N:7289.2 Points Across peak:29



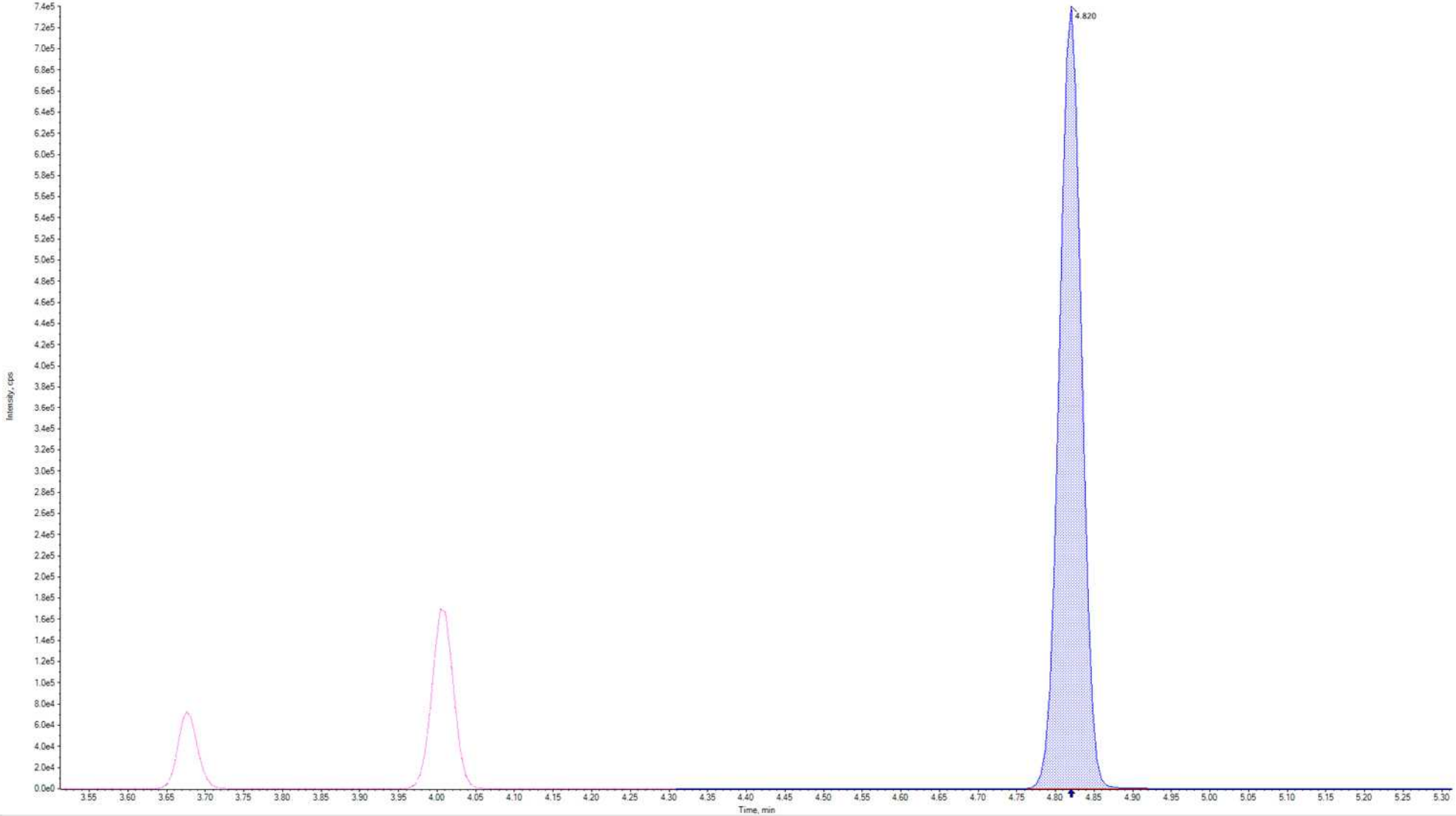
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Alpha Analytical LLC
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PFDS
Sample: IA1633STD-50 S/N:92231.6 Points Across peak:41



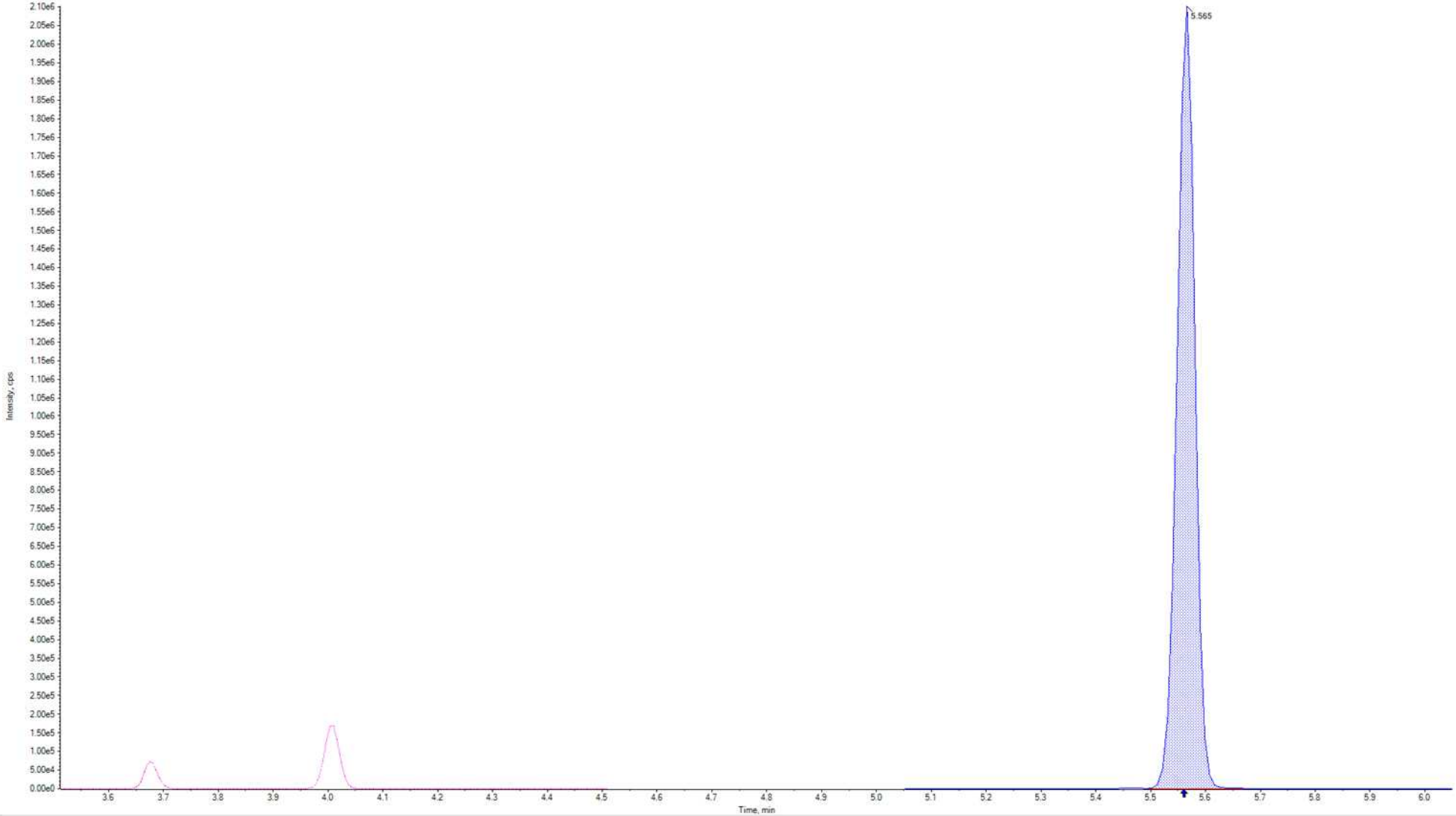
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PFDS_2
Sample: IA1633STD-50 S/N:13198.7 Points Across peak:39



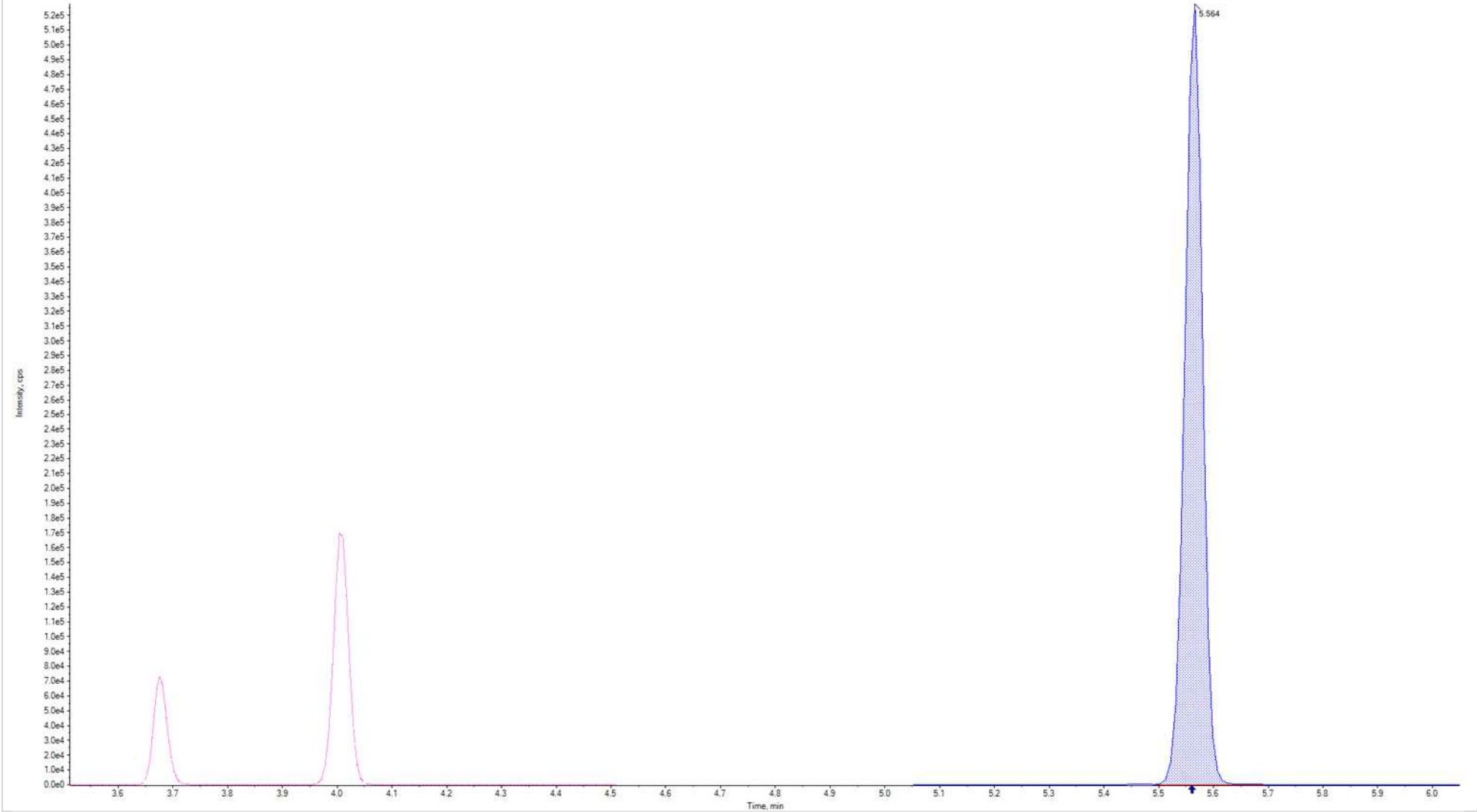
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Alpha Analytical LLC
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PFDoS
Sample: IA1633STD-50 S/N:25340.3 Points Across peak:27



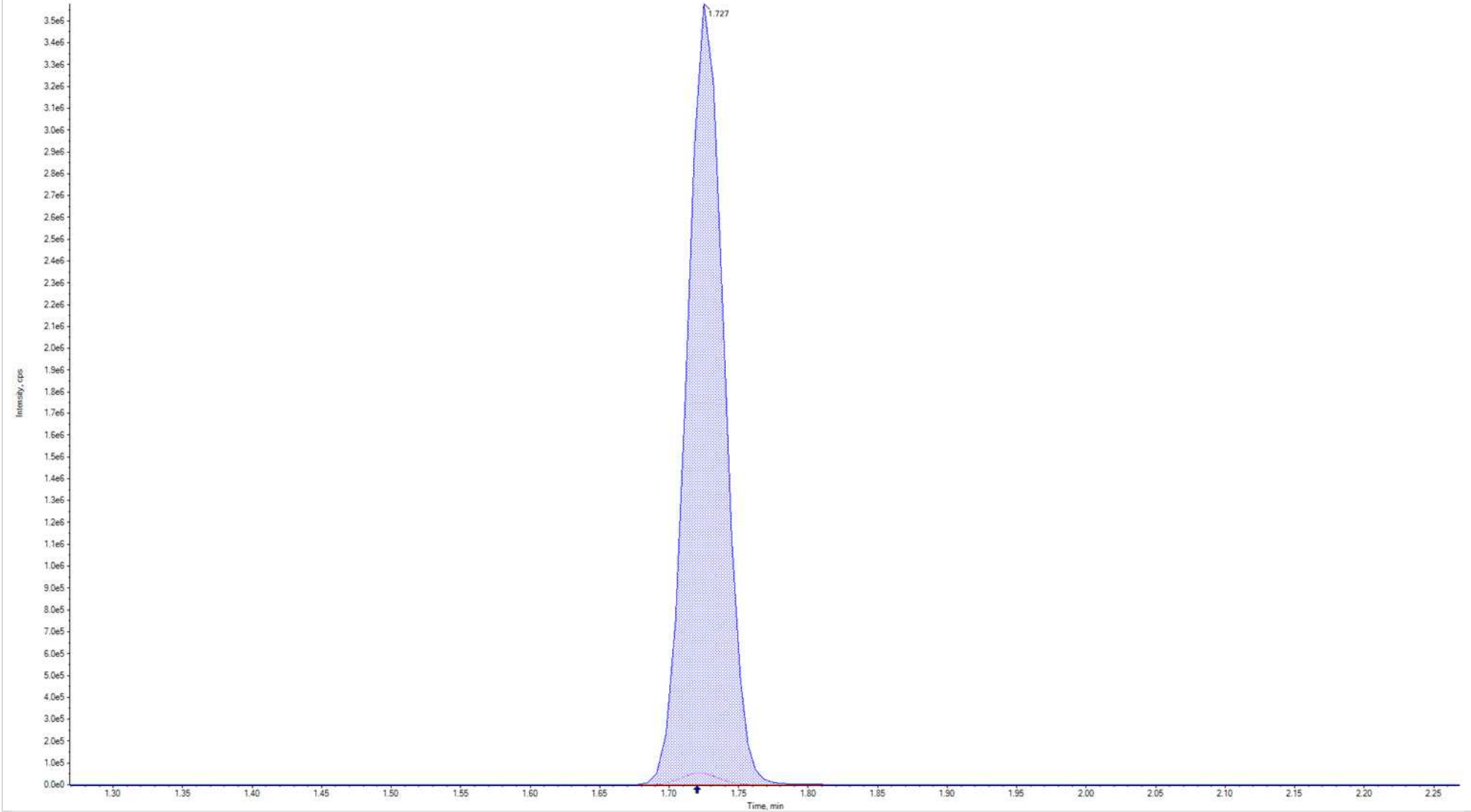
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Alpha Analytical LLC
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PFDoS_2
Sample: IA1633STD-50 S/N:41004.6 Points Across peak:28



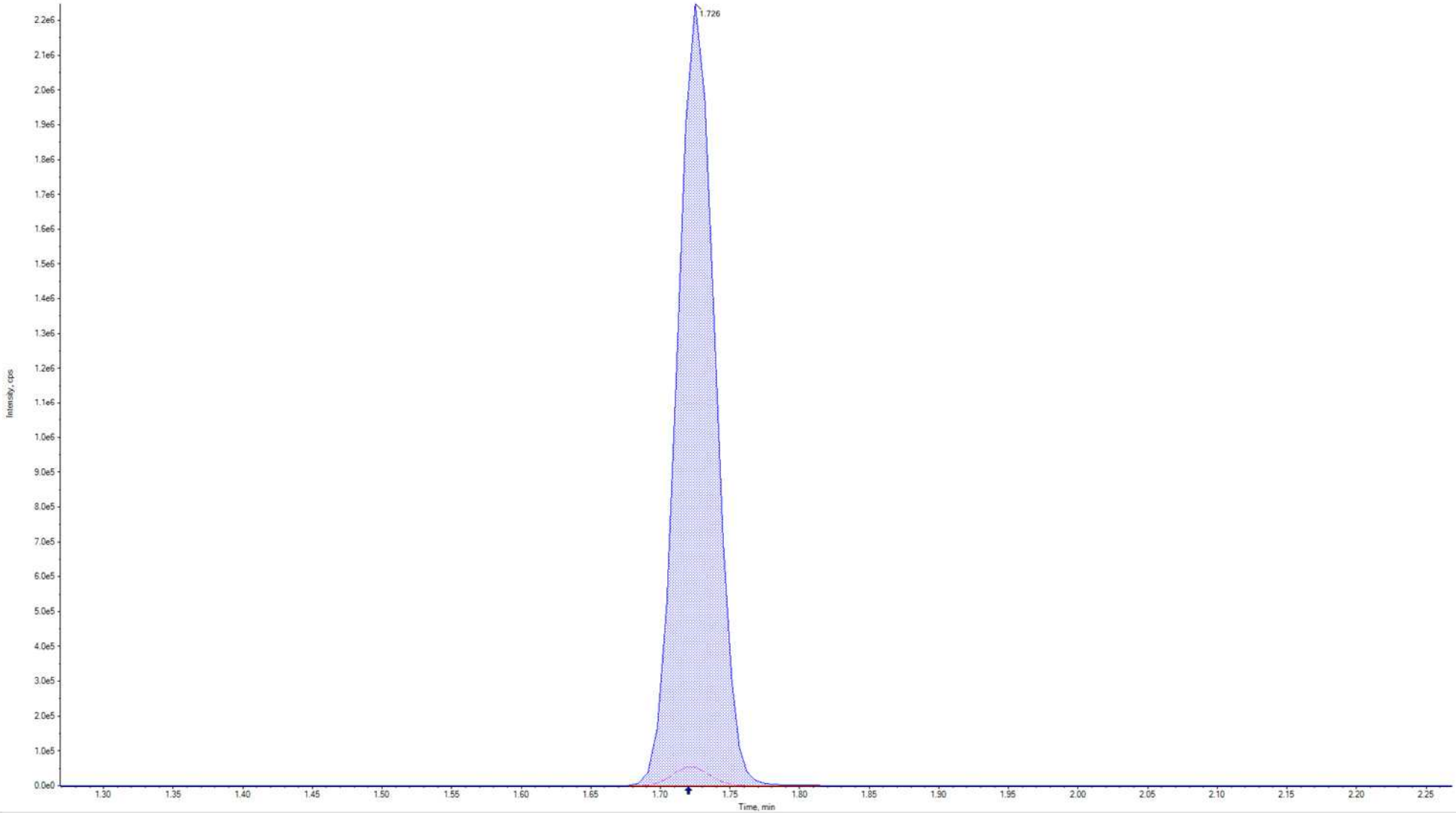
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Alpha Analytical LLC
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4:2FTS
Sample: IA1633STD-50 S/N:7948.3 Points Across peak:35



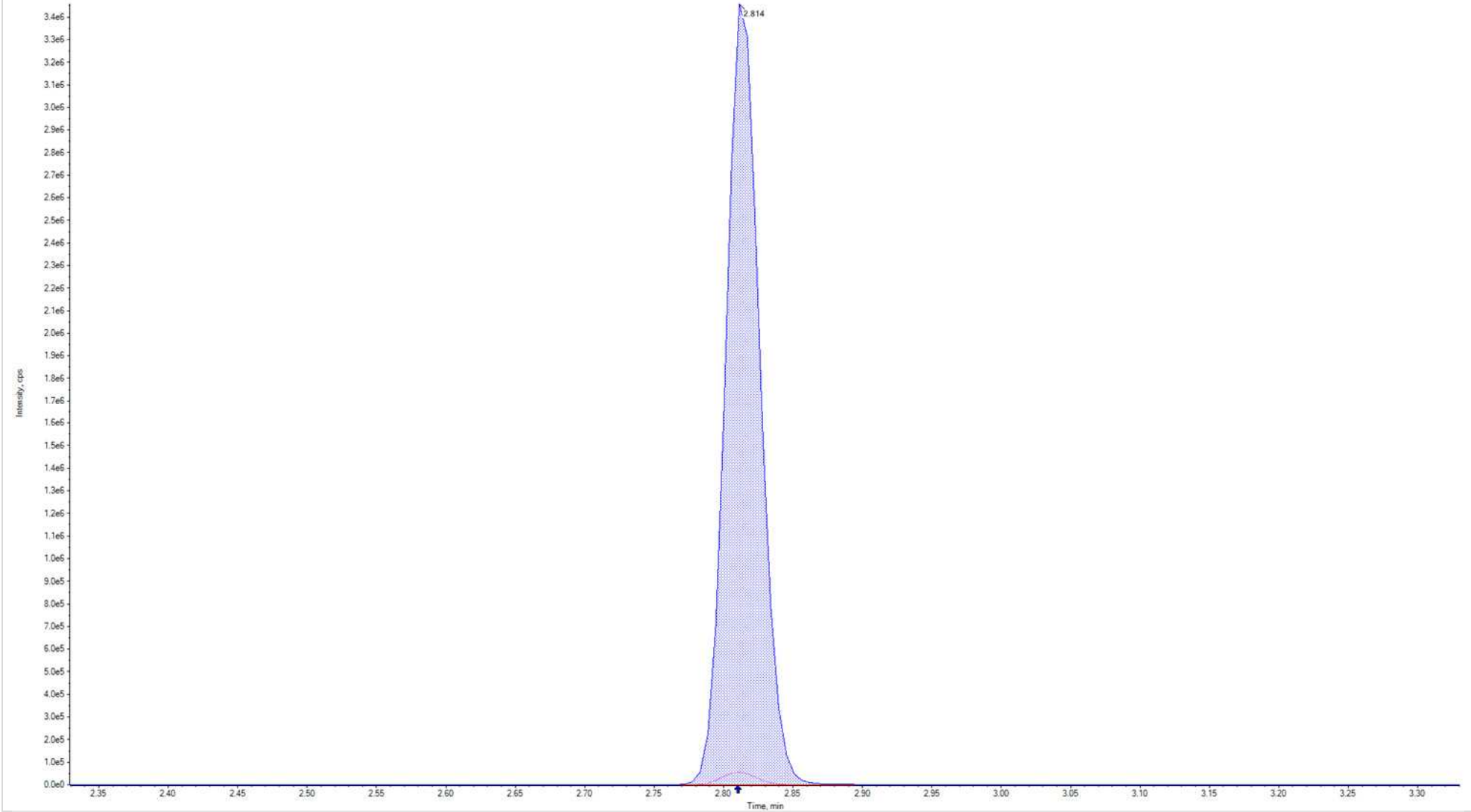
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Alpha Analytical LLC
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4:2FTS_2
Sample: IA1633STD-50 S/N:8174.4 Points Across peak:39



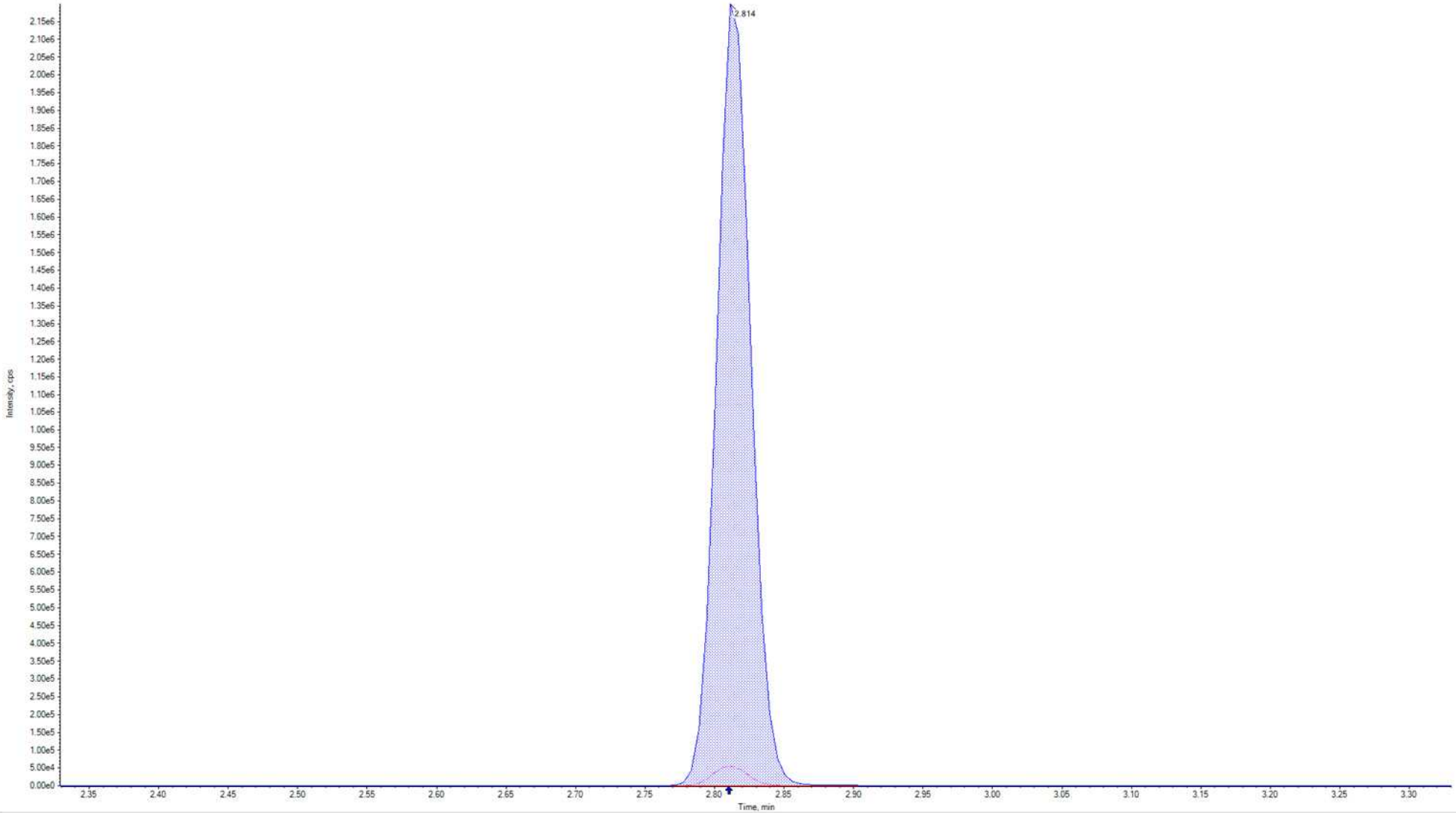
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Alpha Analytical LLC
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6:2FTS
Sample: IA1633STD-50 S/N:69345.2 Points Across peak:45



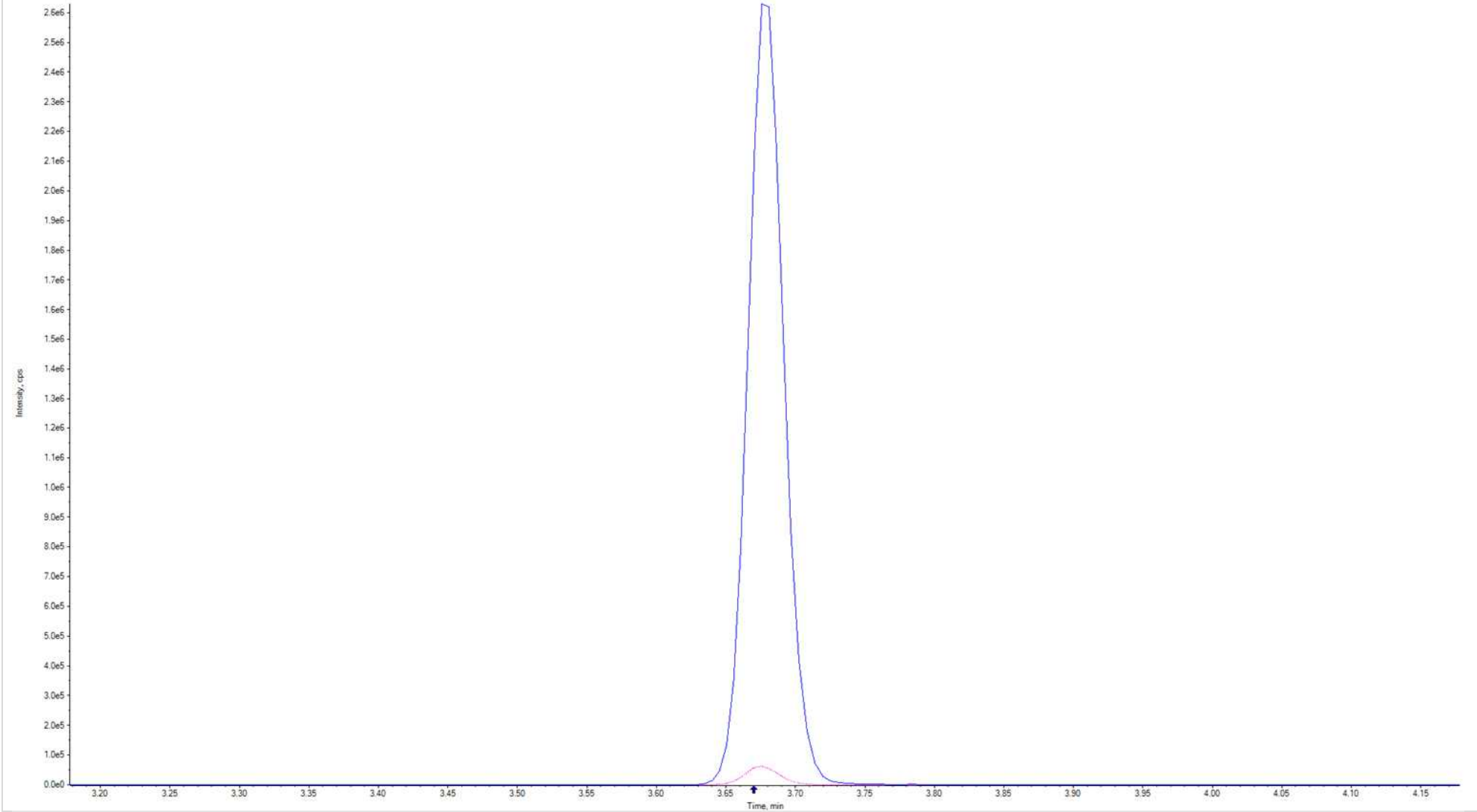
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6:2FTS_2
Sample: IA1633STD-50 S/N:8878.4 Points Across peak:34



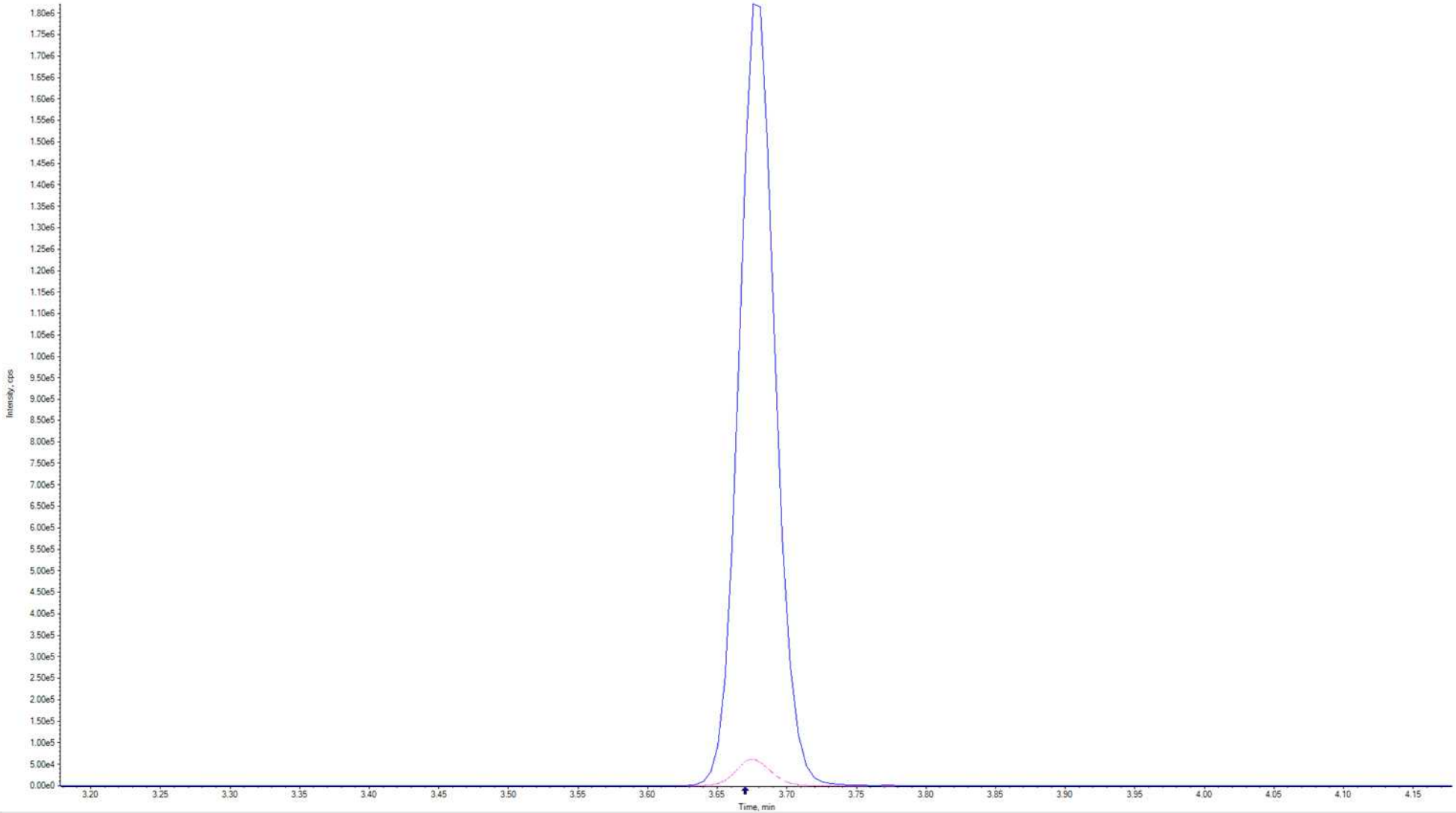
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8:2FTS
Sample: IA1633STD-50 S/N:N/A Points Across peak:N/A



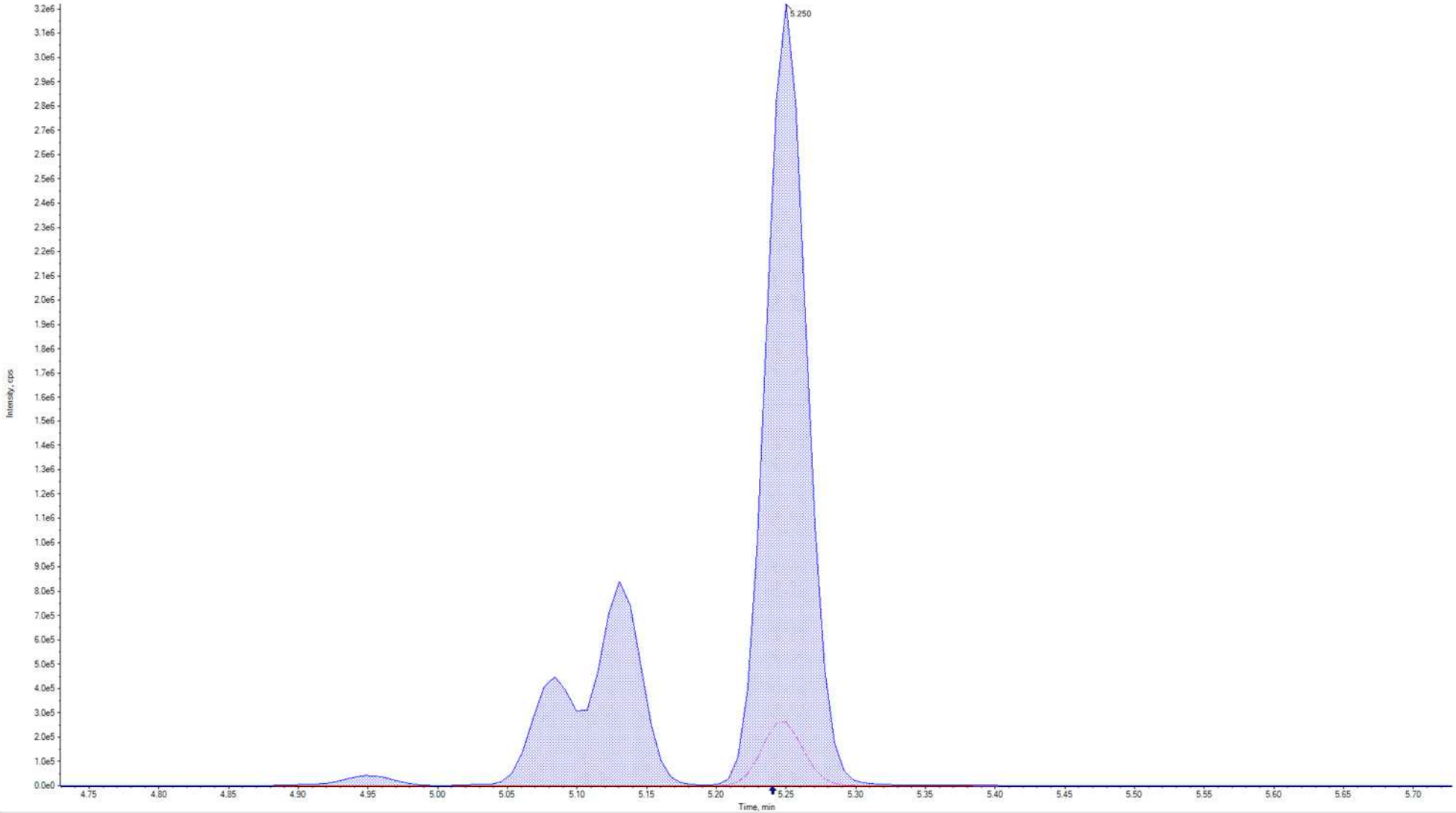
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8:2FTS_2
Sample: IA1633STD-50 S/N:N/A Points Across peak:N/A



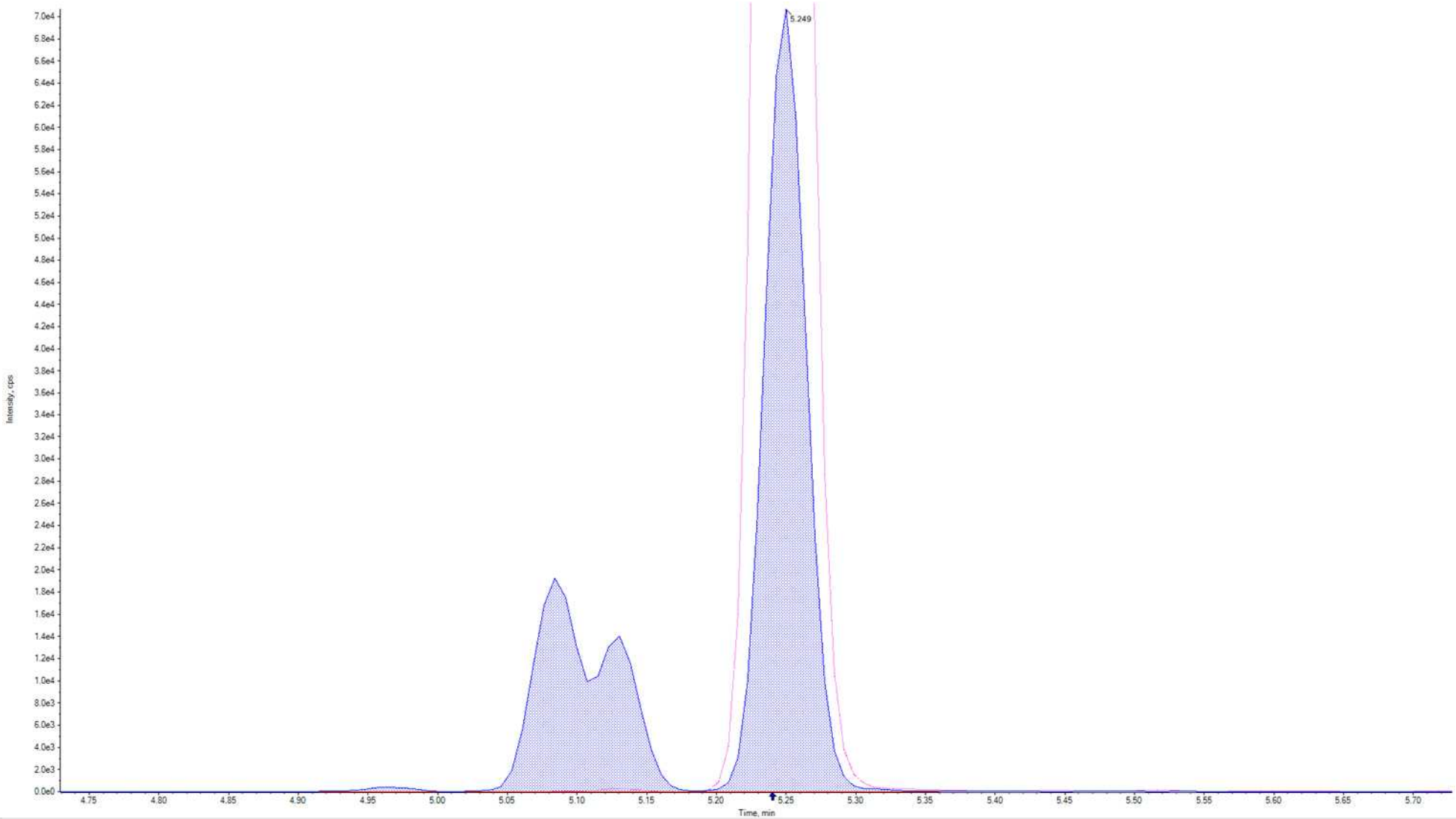
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PFOSA
Sample: IA1633STD-50 S/N:361.9 Points Across peak:76



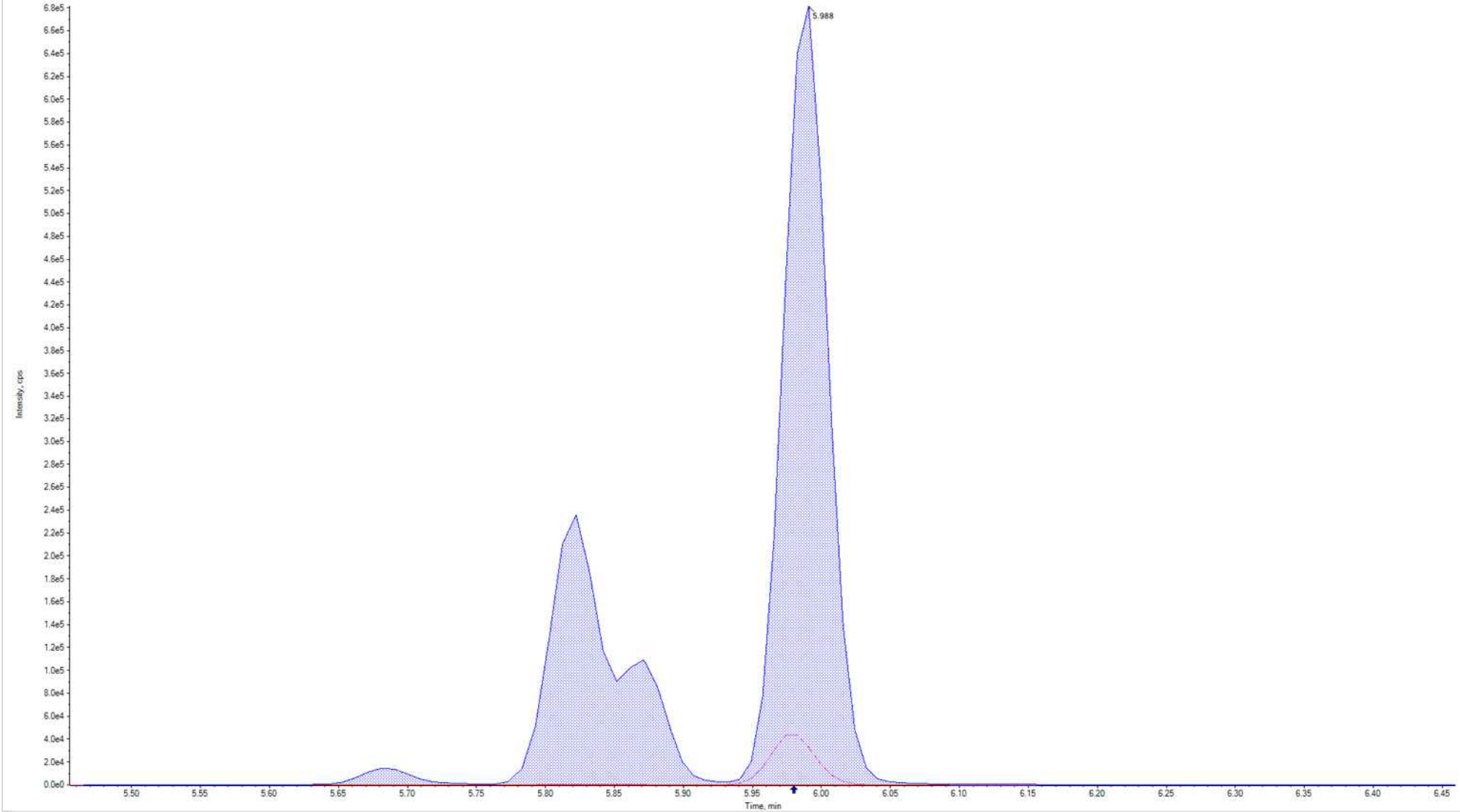
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PFOSA_2
Sample: IA1633STD-50 S/N:391.4 Points Across peak:67



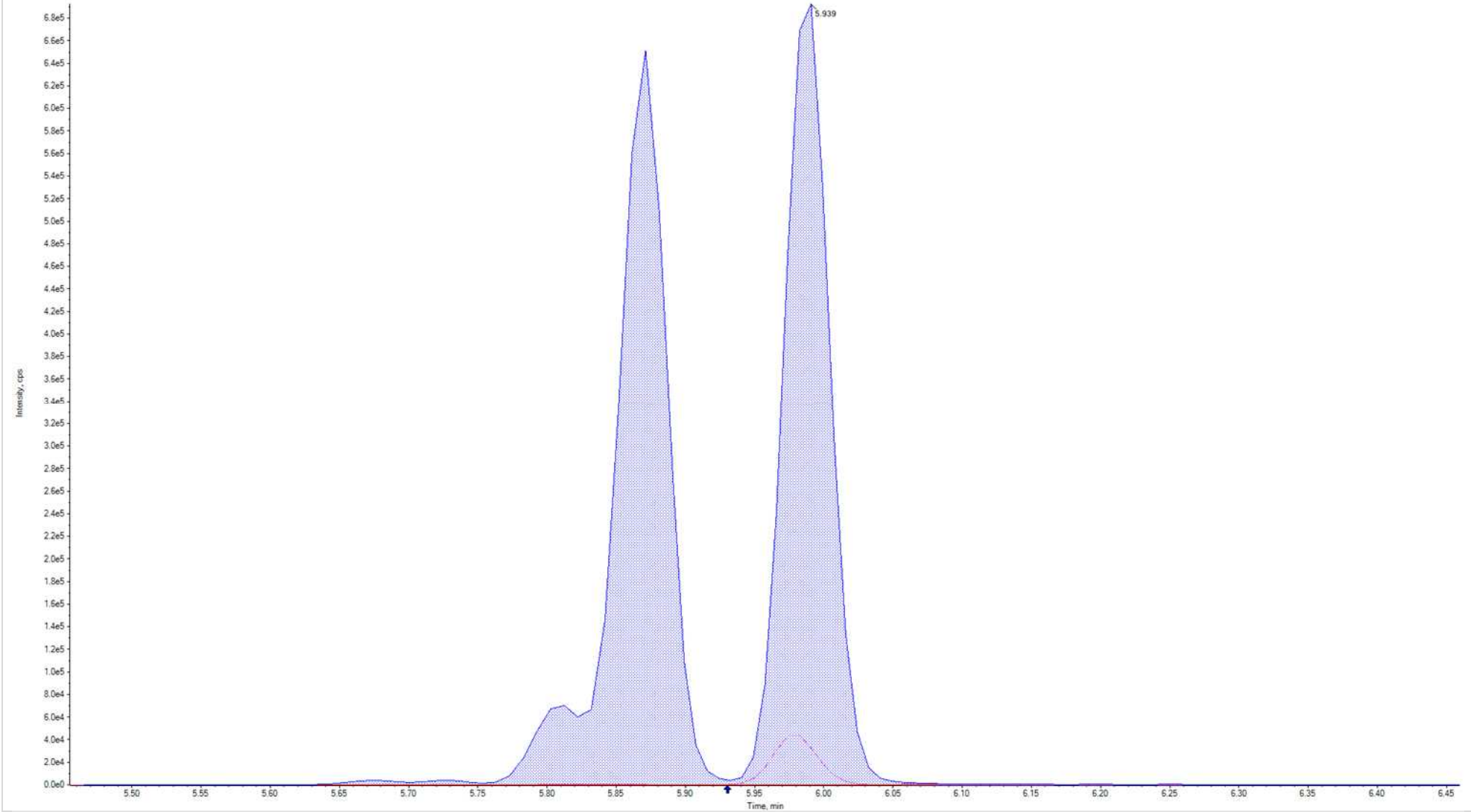
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NMeFOSA
Sample: IA1633STD-50 S/N:332.6 Points Across peak:60



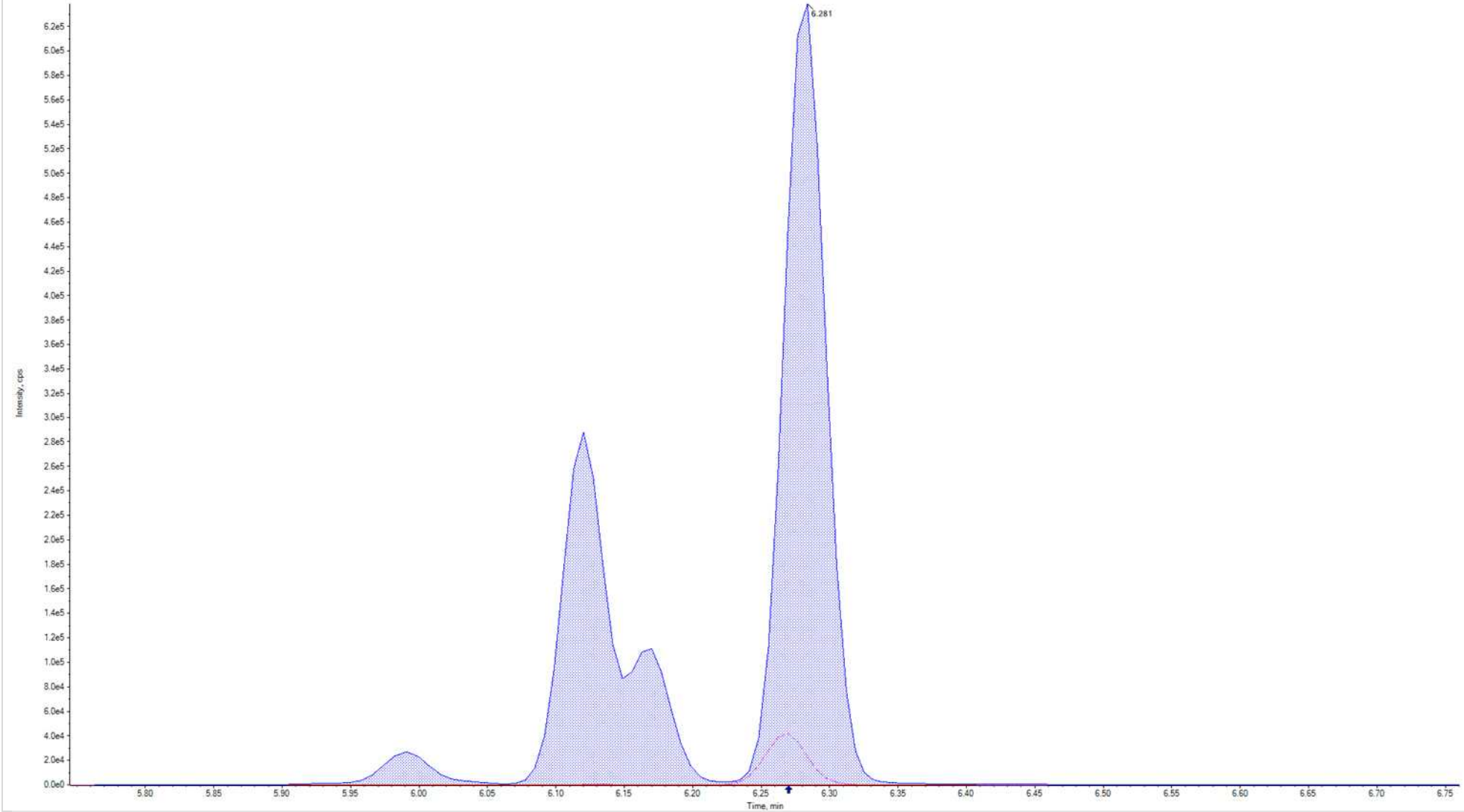
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NMeFOSA_2
Sample: IA1633STD-50 S/N:242.6 Points Across peak:59



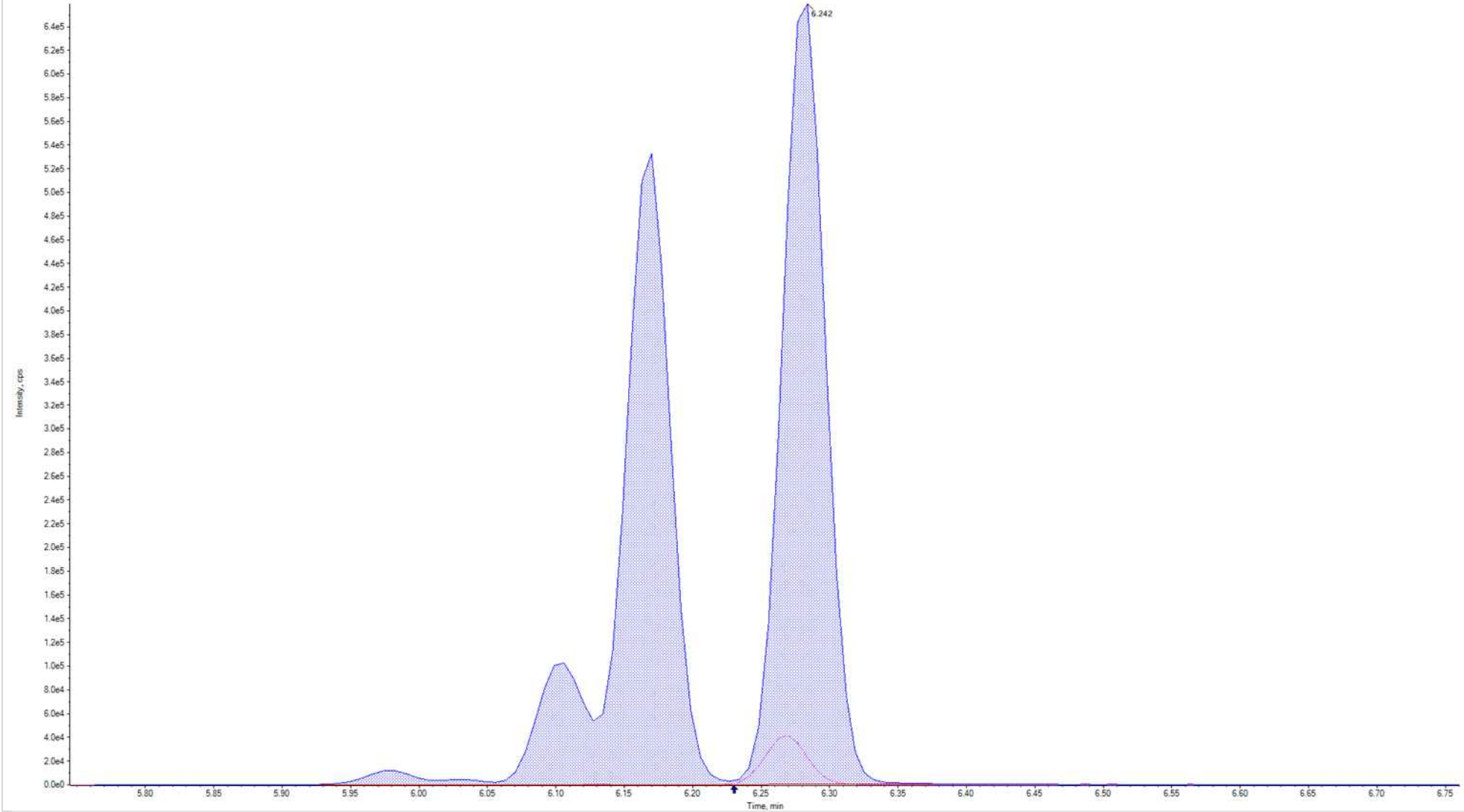
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

NEtFOSA
Sample: IA1633STD-50 S/N:701.5 Points Across peak:78



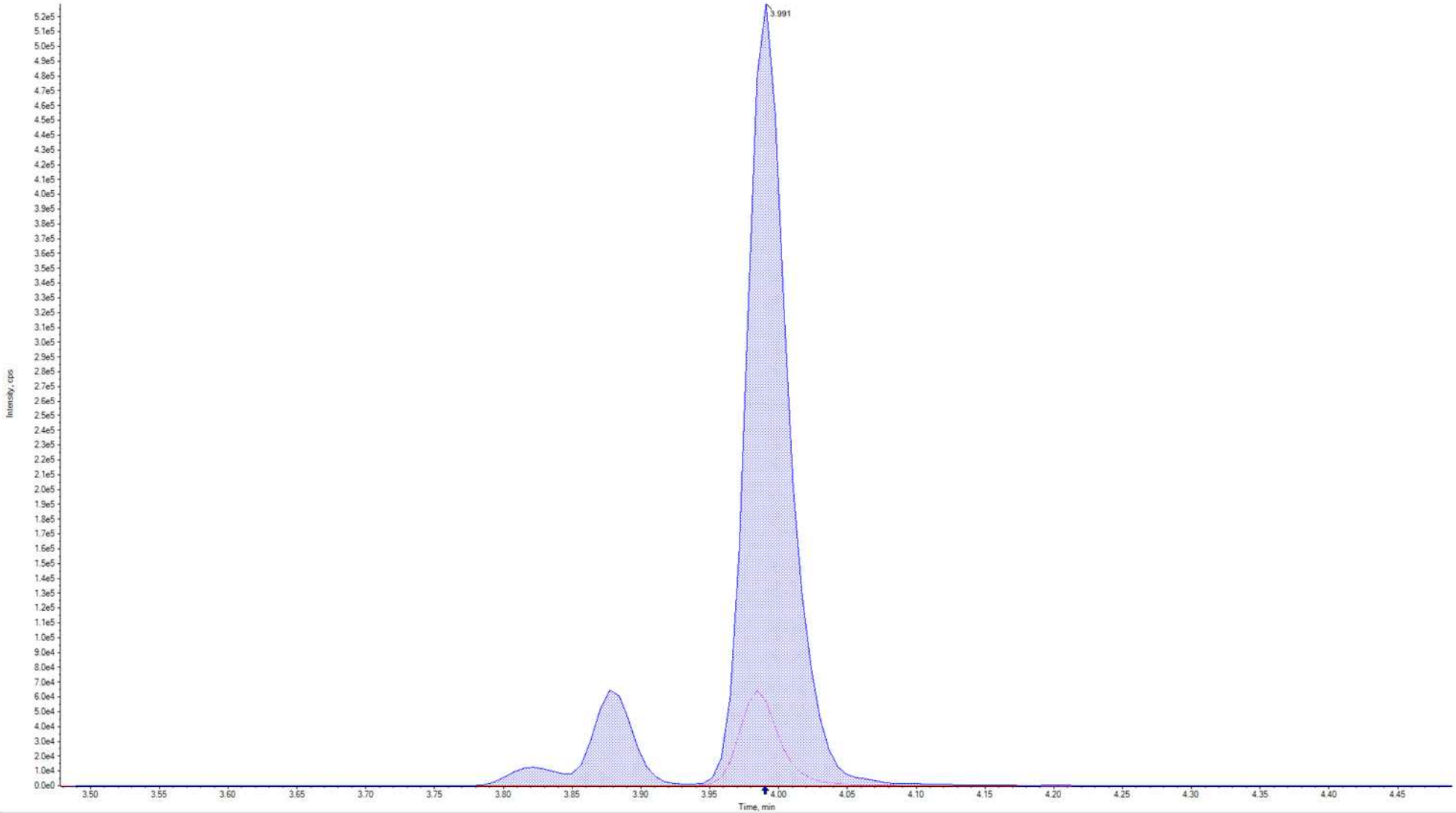
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSA_2
Sample: IA1633STD-50 S/N:693.8 Points Across peak:73



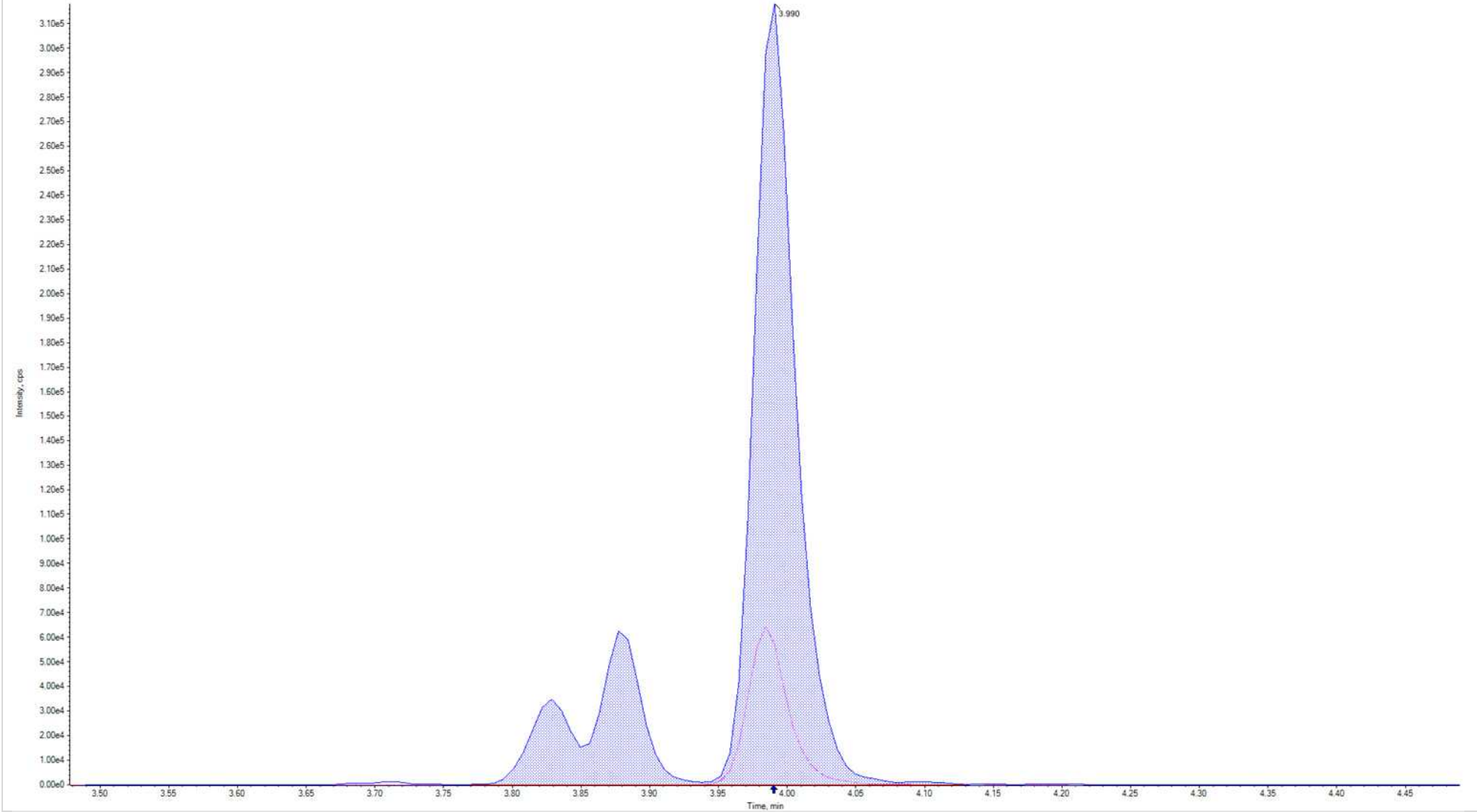
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Alpha Analytical LLC
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NMeFOSAA
Sample: IA1633STD-50 S/N:665.4 Points Across peak:65



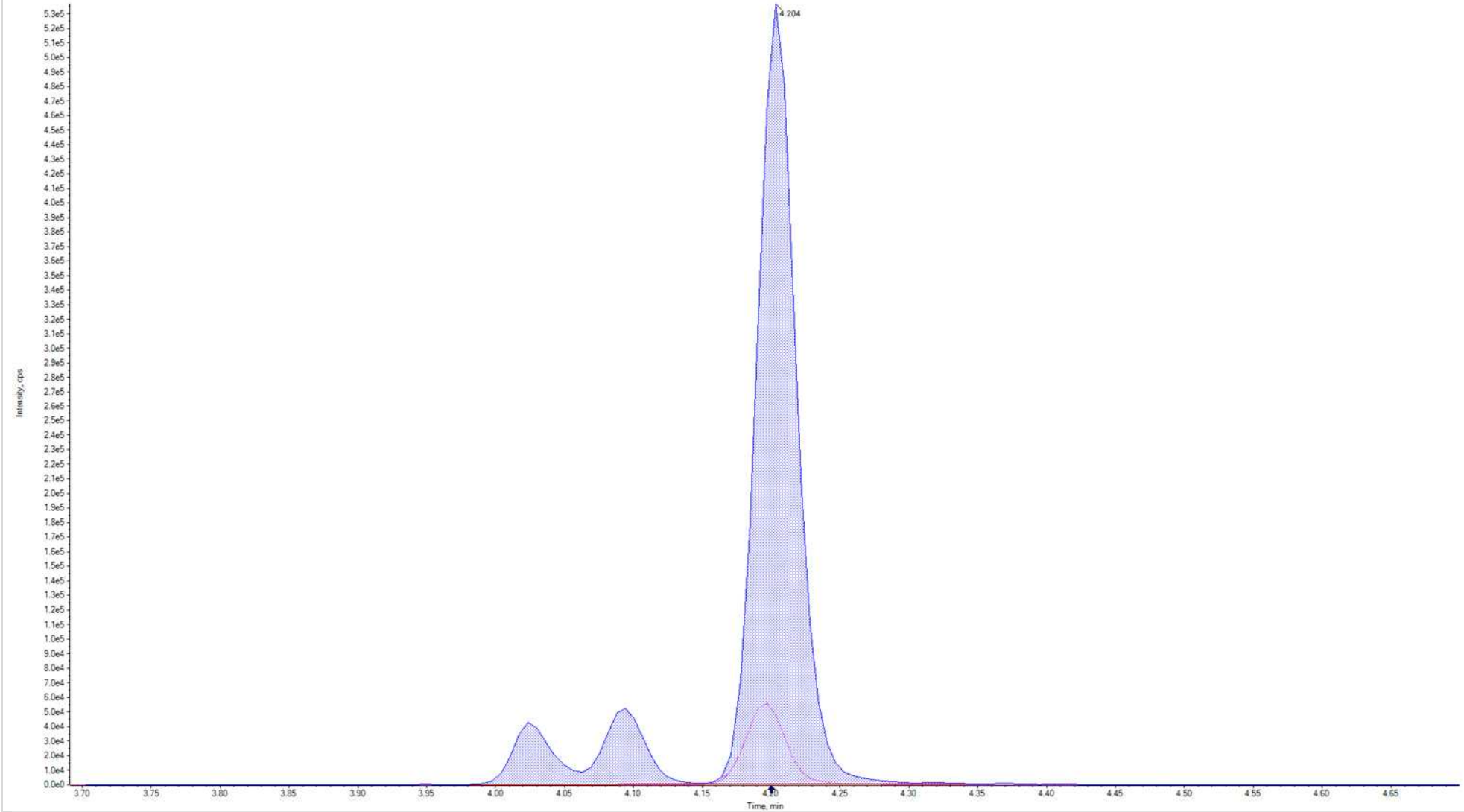
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Alpha Analytical LLC
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NMeFOSAA_2
Sample: IA1633STD-50 S/N:431.6 Points Across peak:57



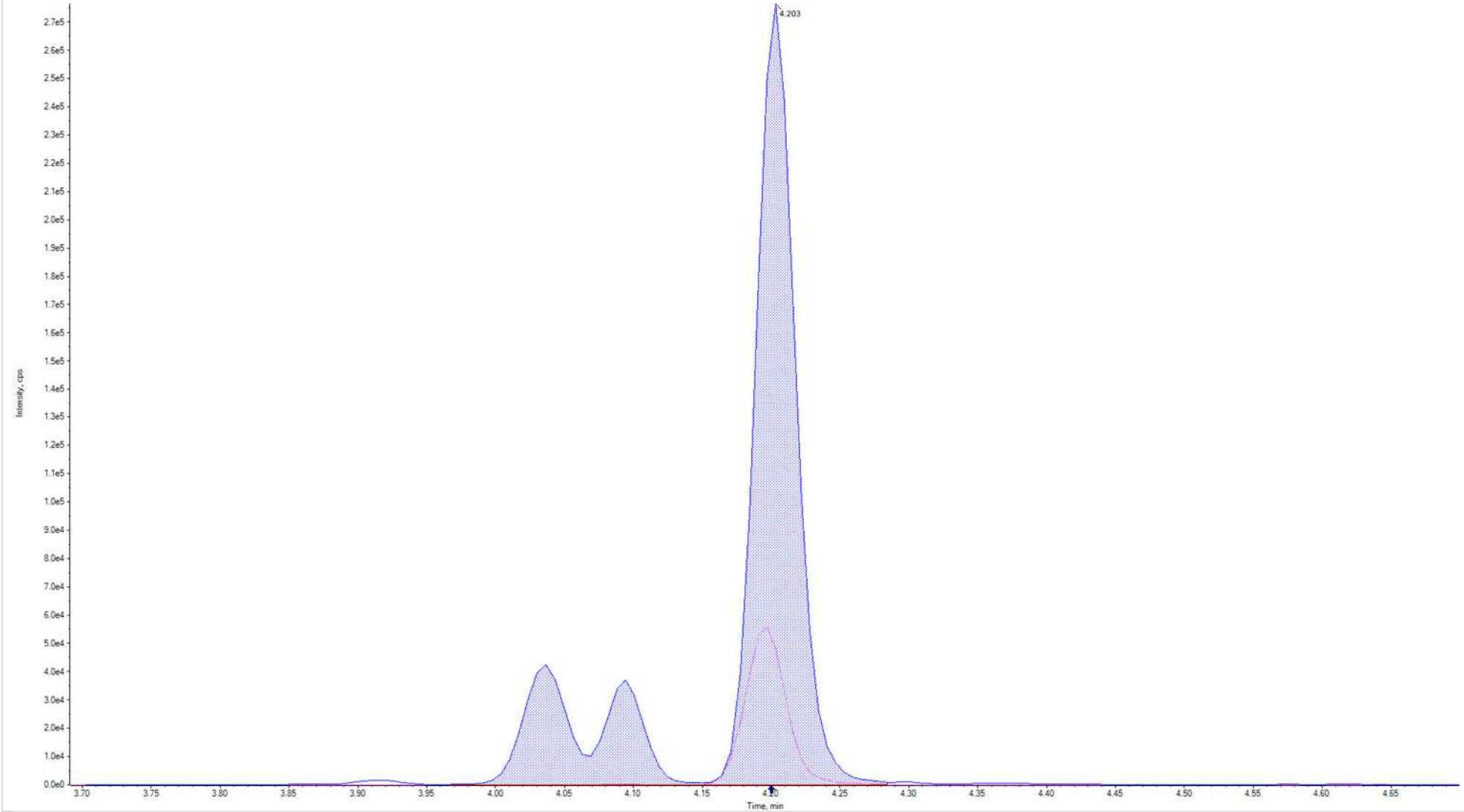
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NEtFOSAA
Sample: IA1633STD-50 S/N:604.5 Points Across peak:60



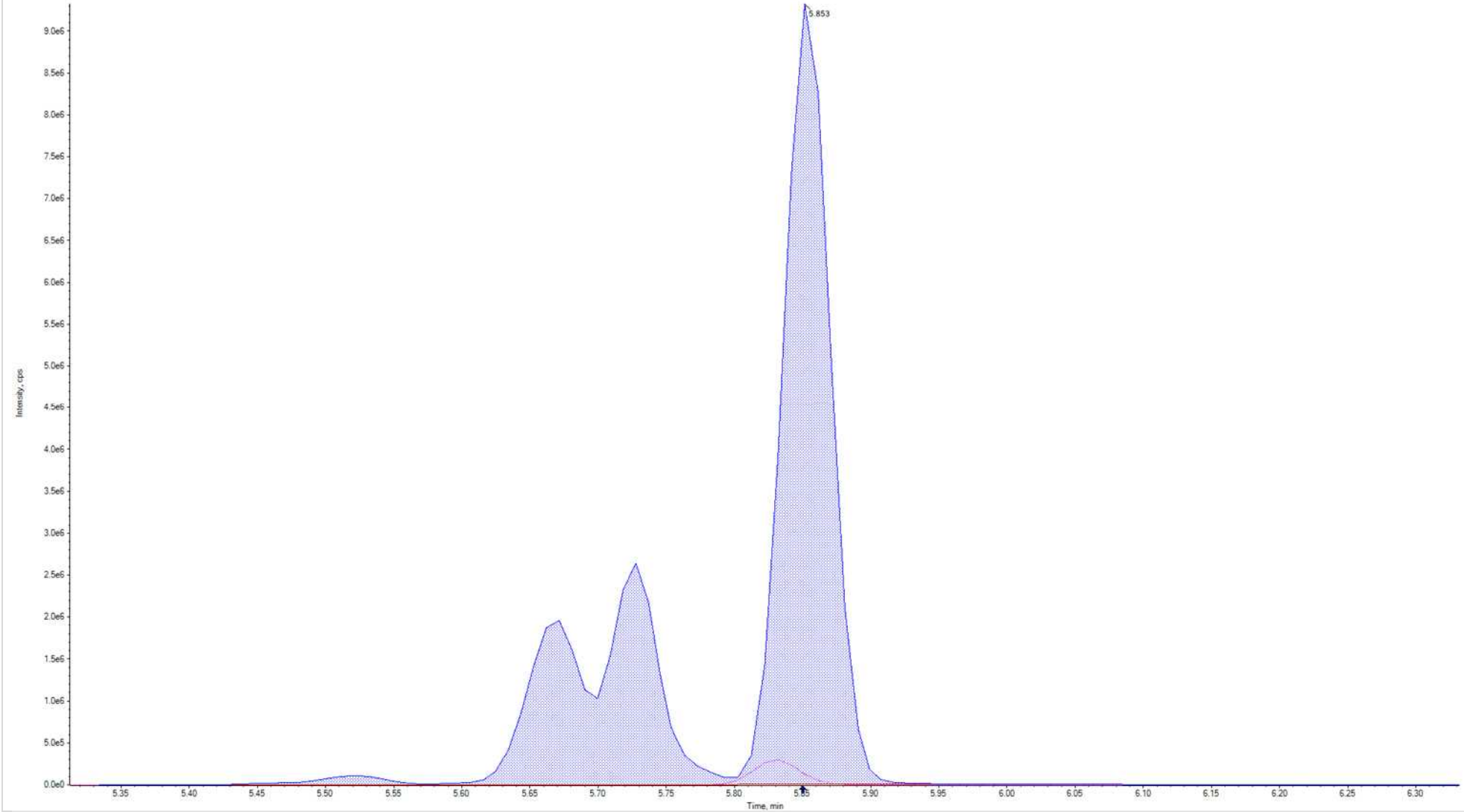
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NEtFOSAA_2
Sample: IA1633STD-50 S/N:444.6 Points Across peak:53



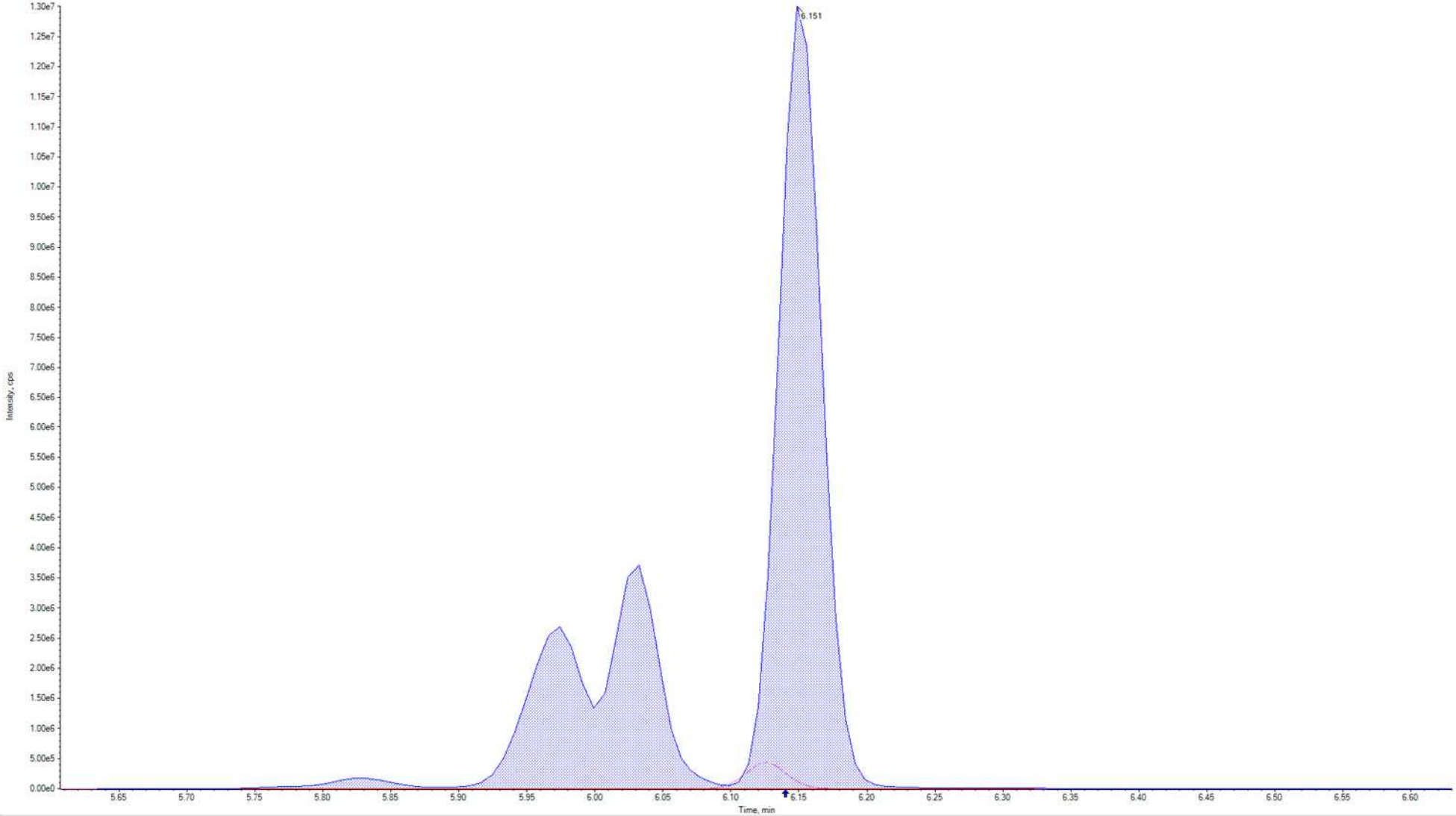
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Alpha Analytical LLC
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NMeFOSE
Sample: IA1633STD-50 S/N:235.2 Points Across peak:64



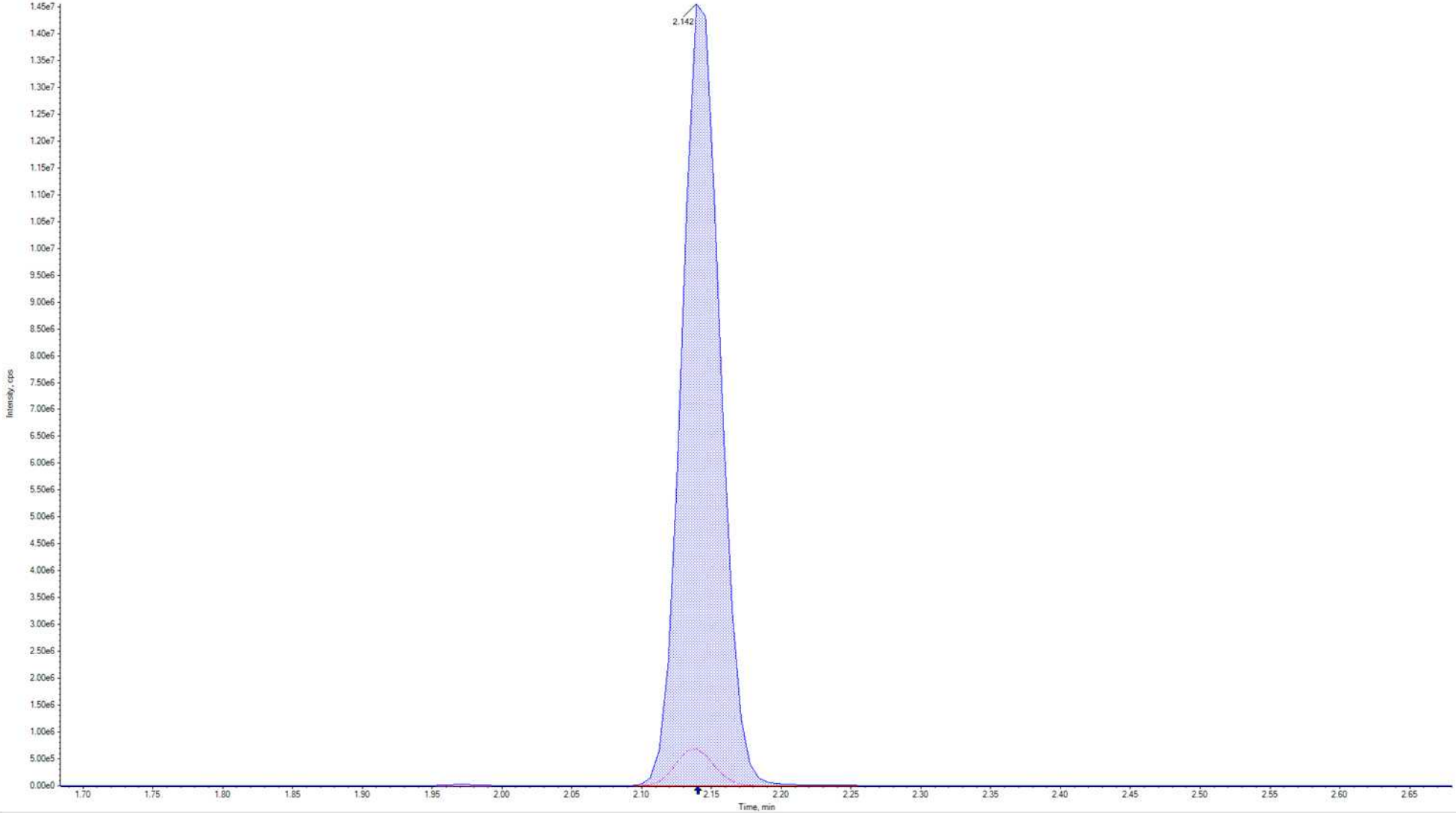
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NEtFOSE
Sample: IA1633STD-50 S/N:380.0 Points Across peak:77



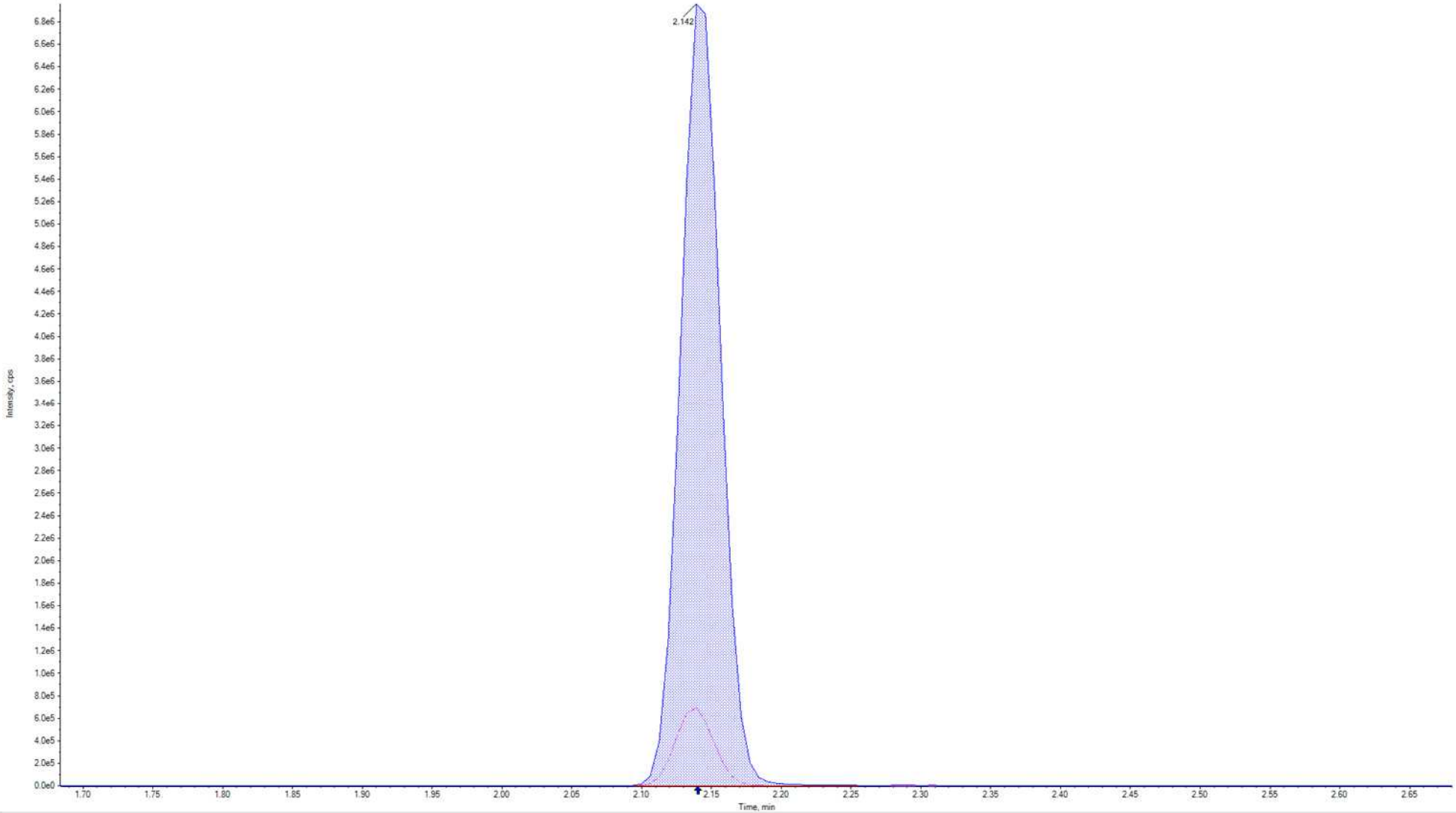
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HFPO-DA
Sample: IA1633STD-50 S/N:328304.0 Points Across peak:34



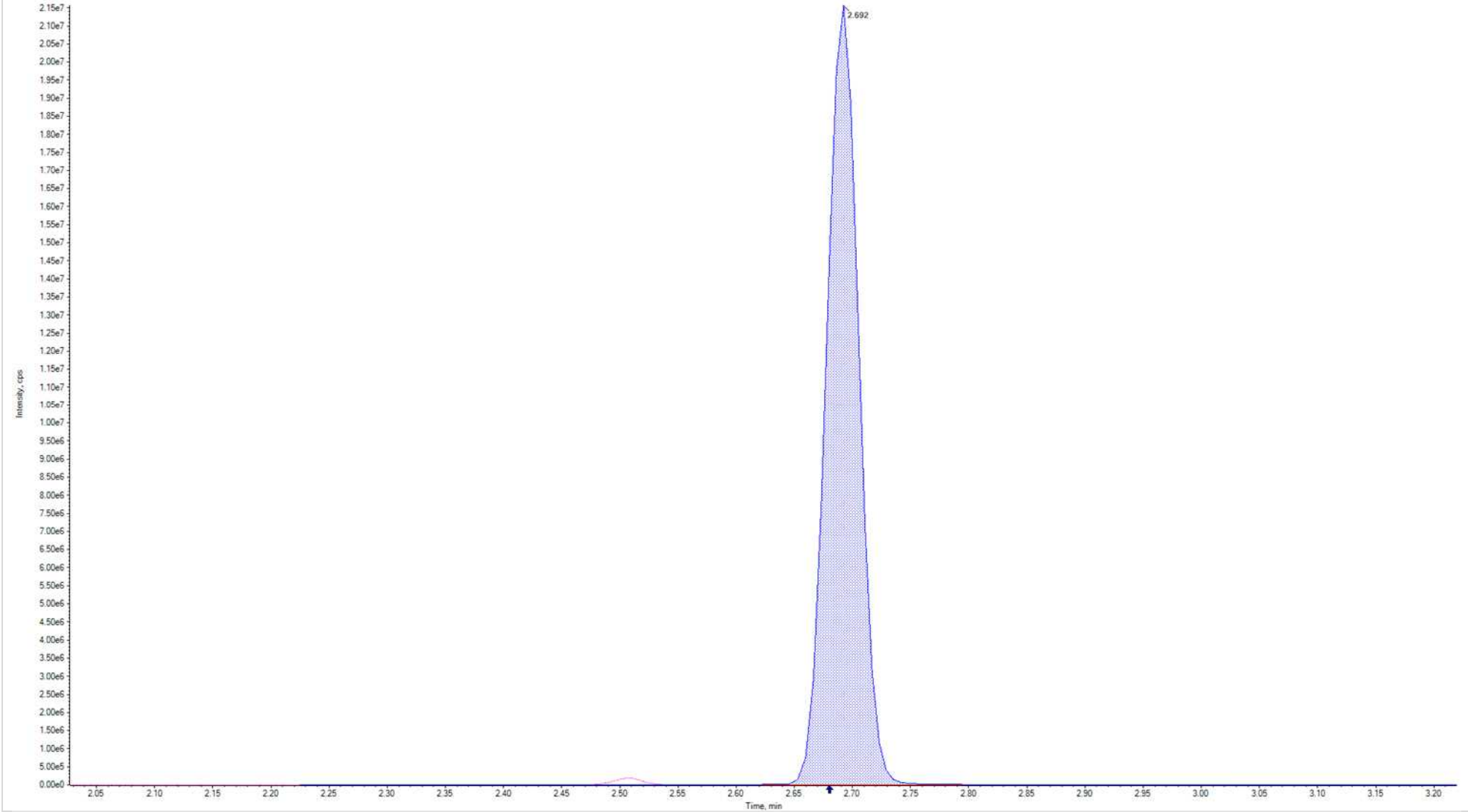
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Alpha Analytical LLC
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HFPO-DA_2
Sample: IA1633STD-50 S/N:59399.9 Points Across peak:30



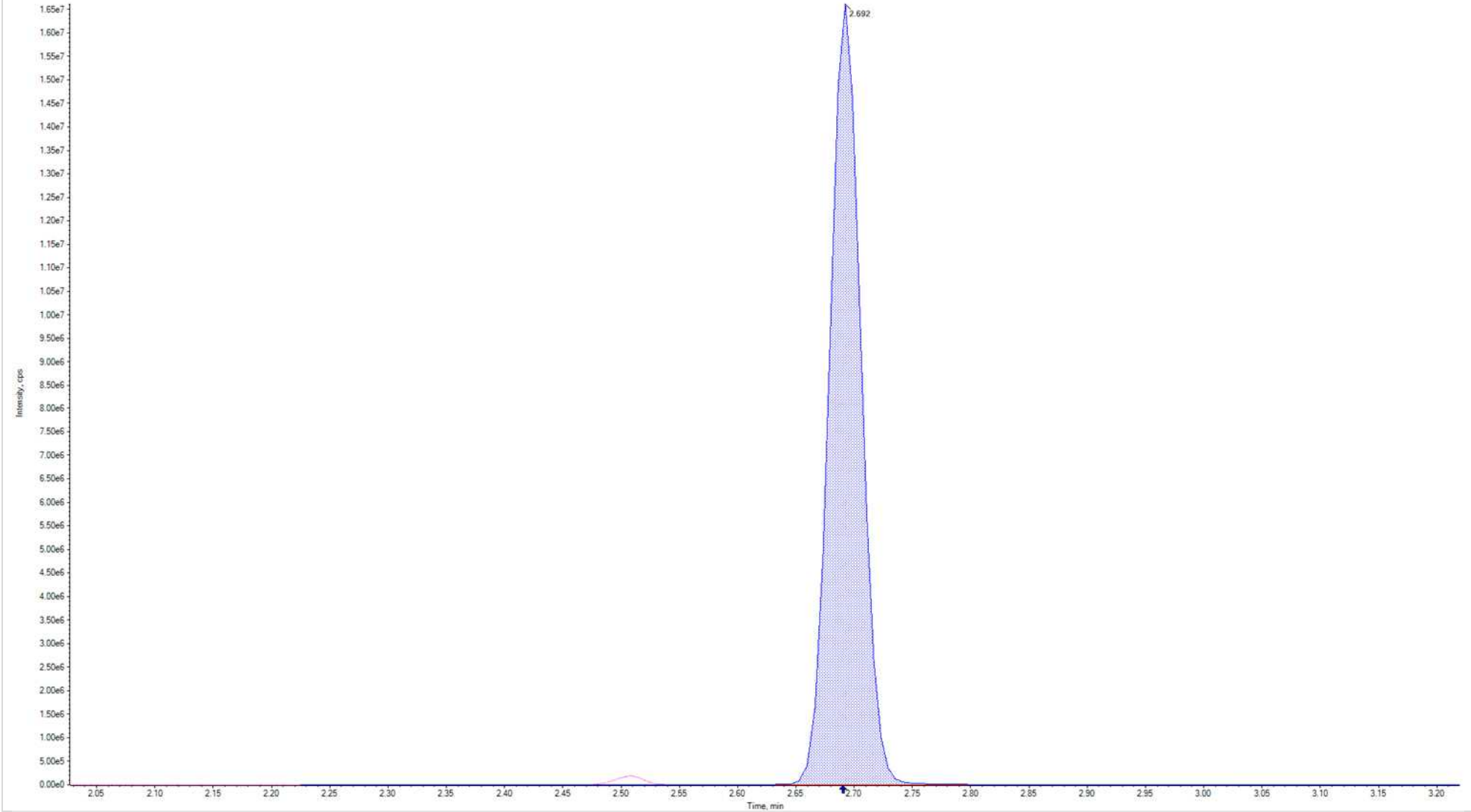
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

ADONA
Sample: IA1633STD-50 S/N:138565.1 Points Across peak:38



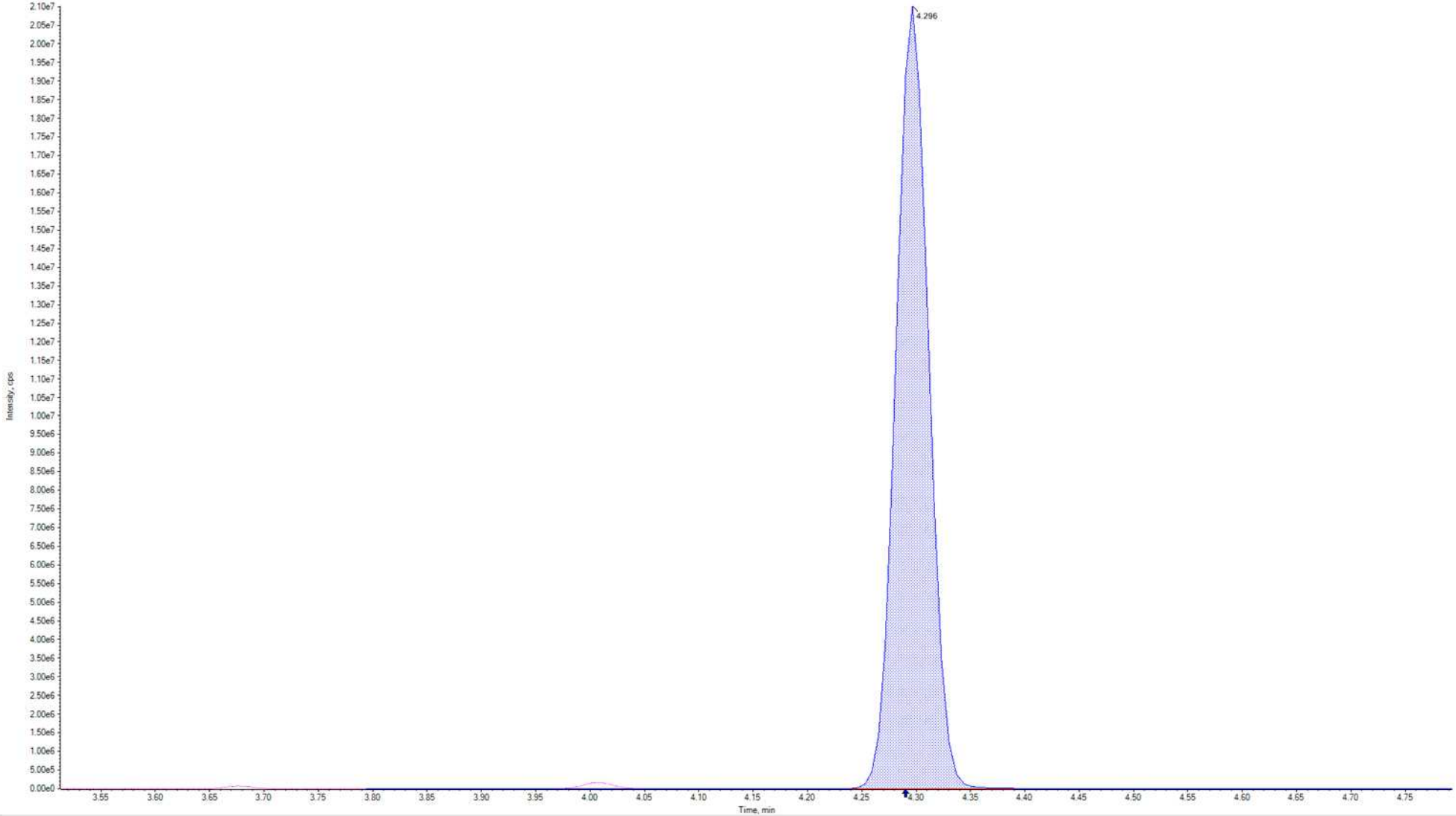
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

ADONA_2
Sample: IA1633STD-50 S/N:80214.4 Points Across peak:37



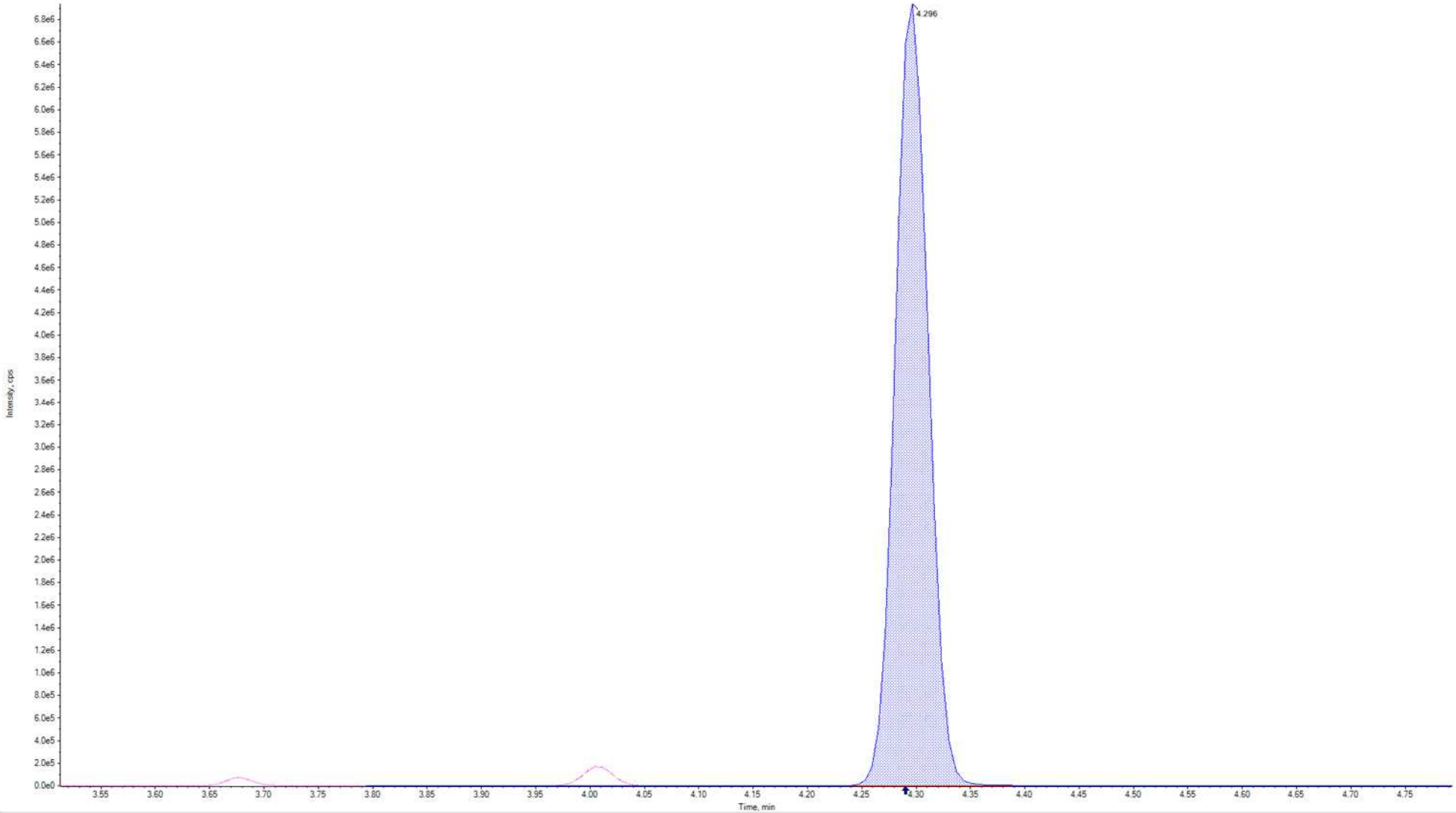
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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9Cl-PF3ONS
Sample: IA1633STD-50 S/N:6378.8 Points Across peak:35



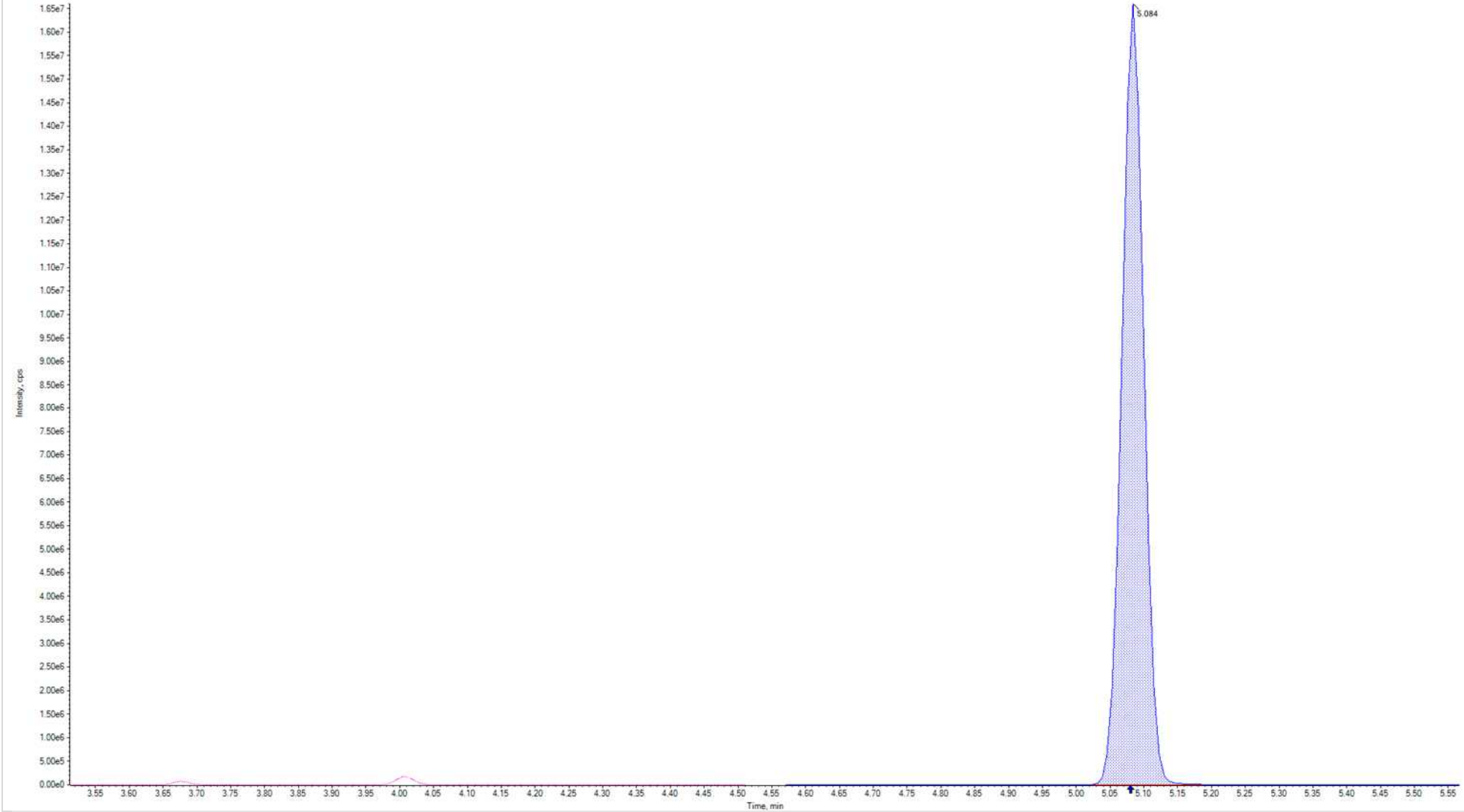
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_29.wiff2_8
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS_2
Sample: IA1633STD-50 S/N:6416.0 Points Across peak:36



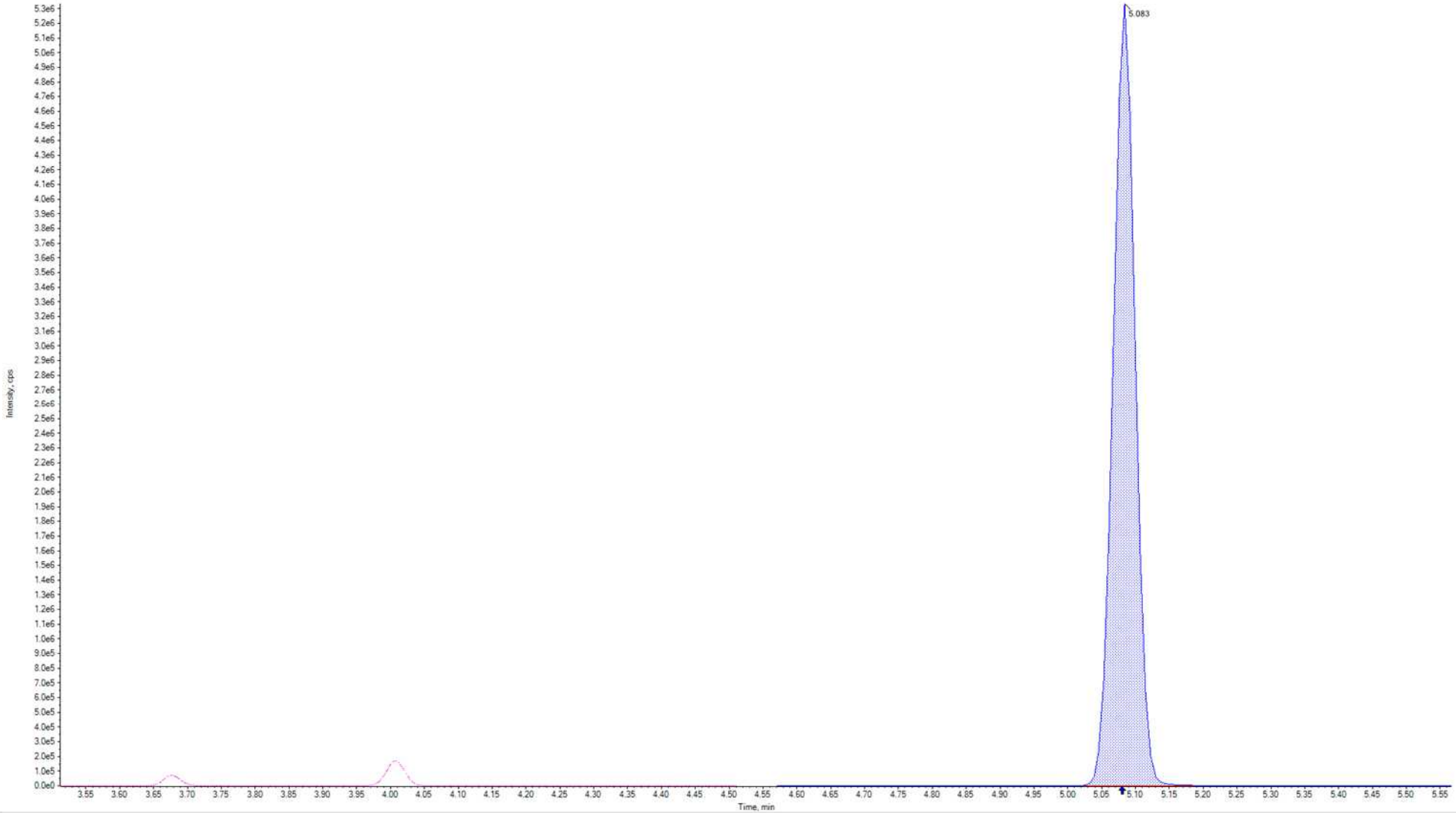
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

11Cl-PF3OUdS
Sample: IA1633STD-50 S/N:790590.7 Points Across peak:38



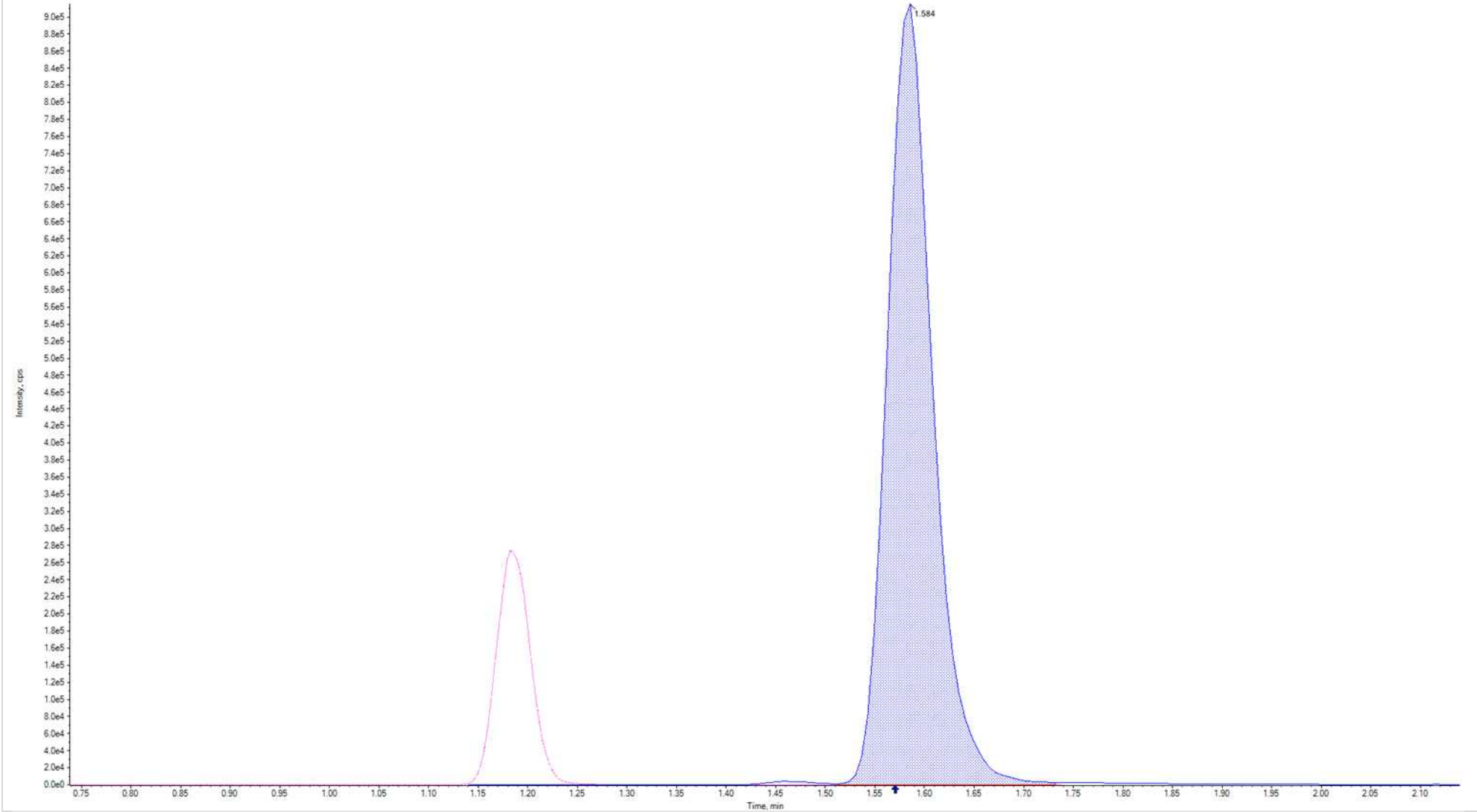
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Alpha Analytical LLC
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11Cl-PF3OUdS_2
Sample: IA1633STD-50 S/N:253928.4 Points Across peak:33



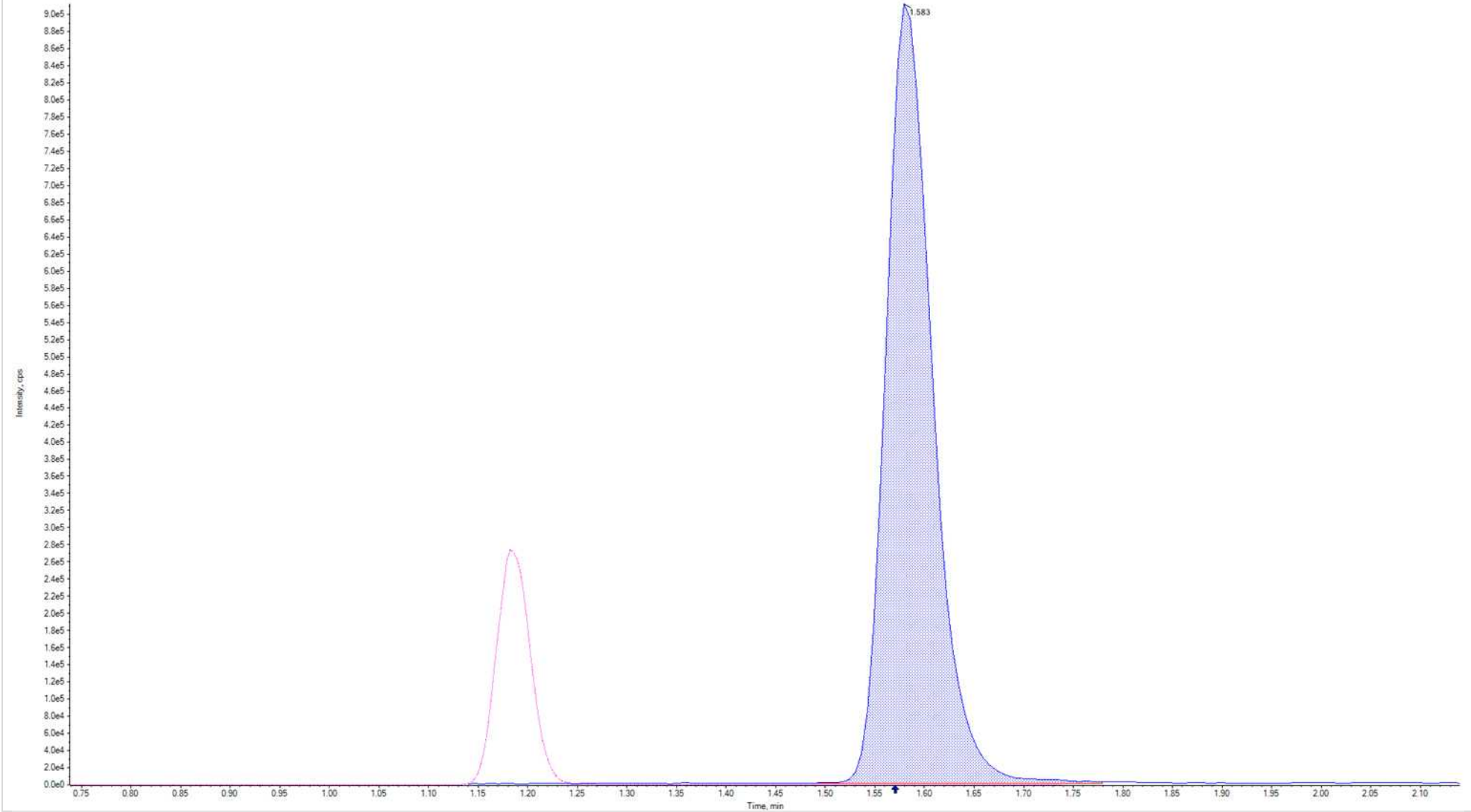
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Alpha Analytical LLC
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3:3FTCA
Sample: IA1633STD-50 S/N:3258.3 Points Across peak:36



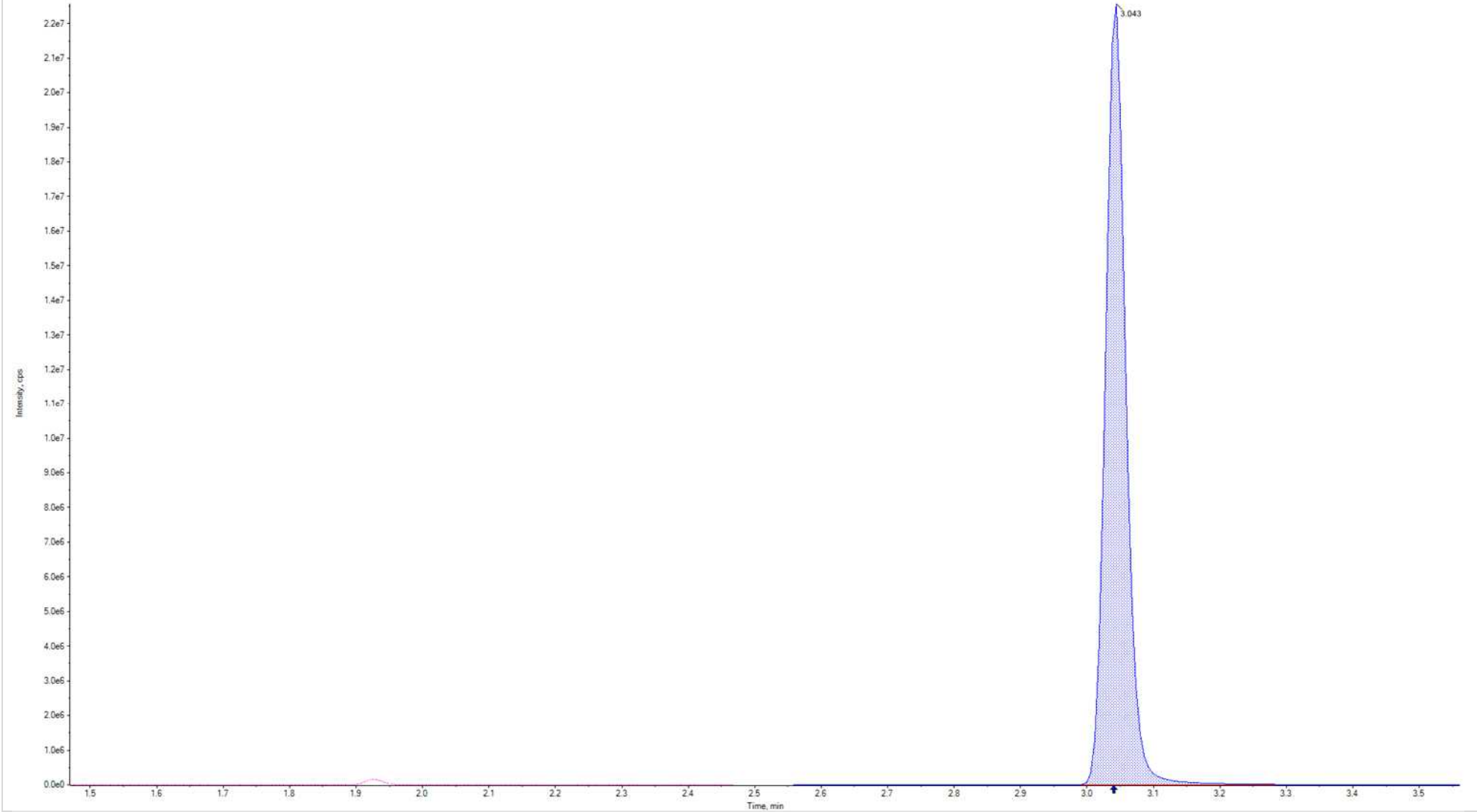
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Alpha Analytical LLC
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3:3FTCA_2
Sample: IA1633STD-50 S/N:2091.9 Points Across peak:52



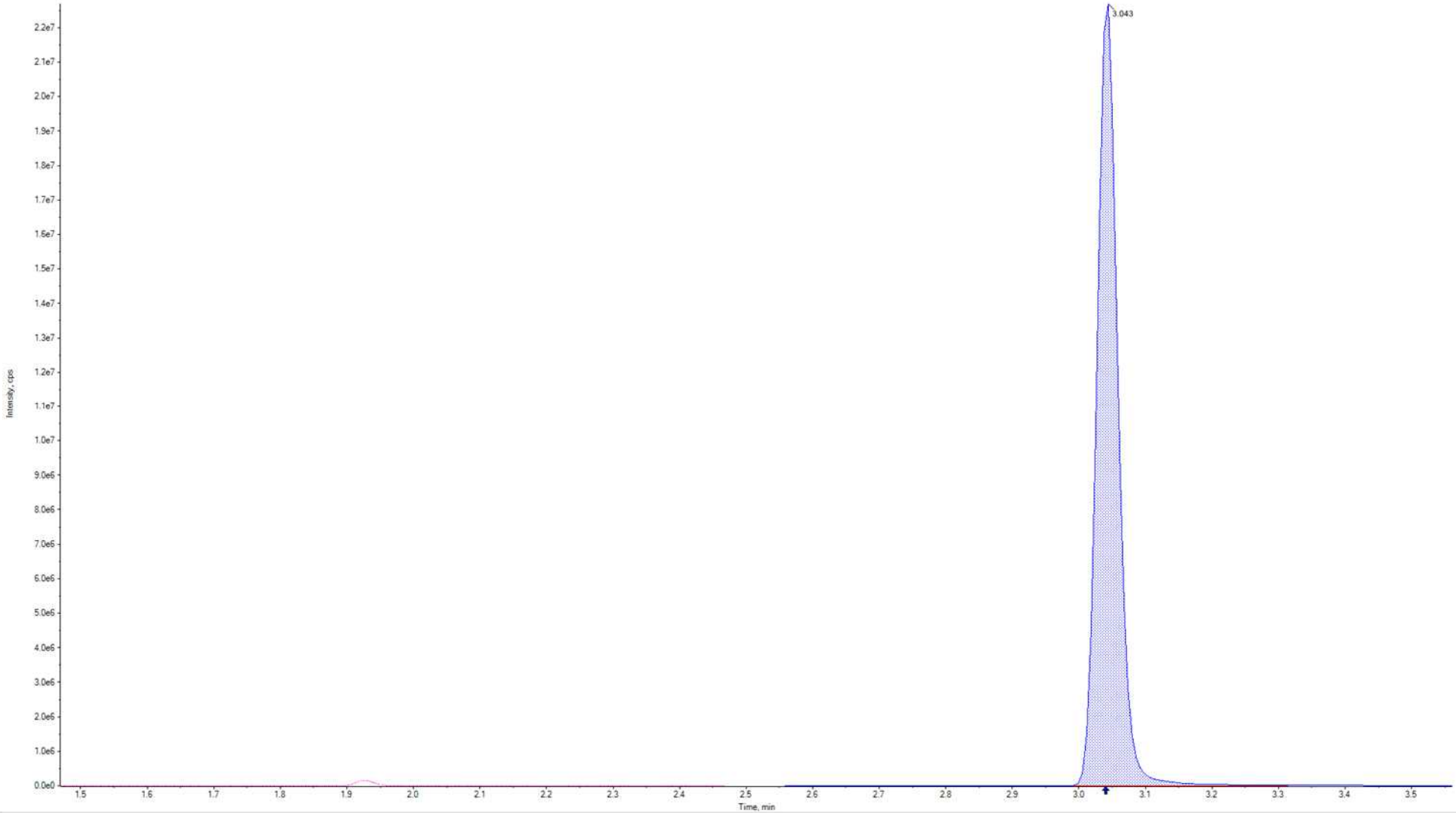
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Alpha Analytical LLC
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5:3FTCA
Sample: IA1633STD-50 S/N:30154.7 Points Across peak:67



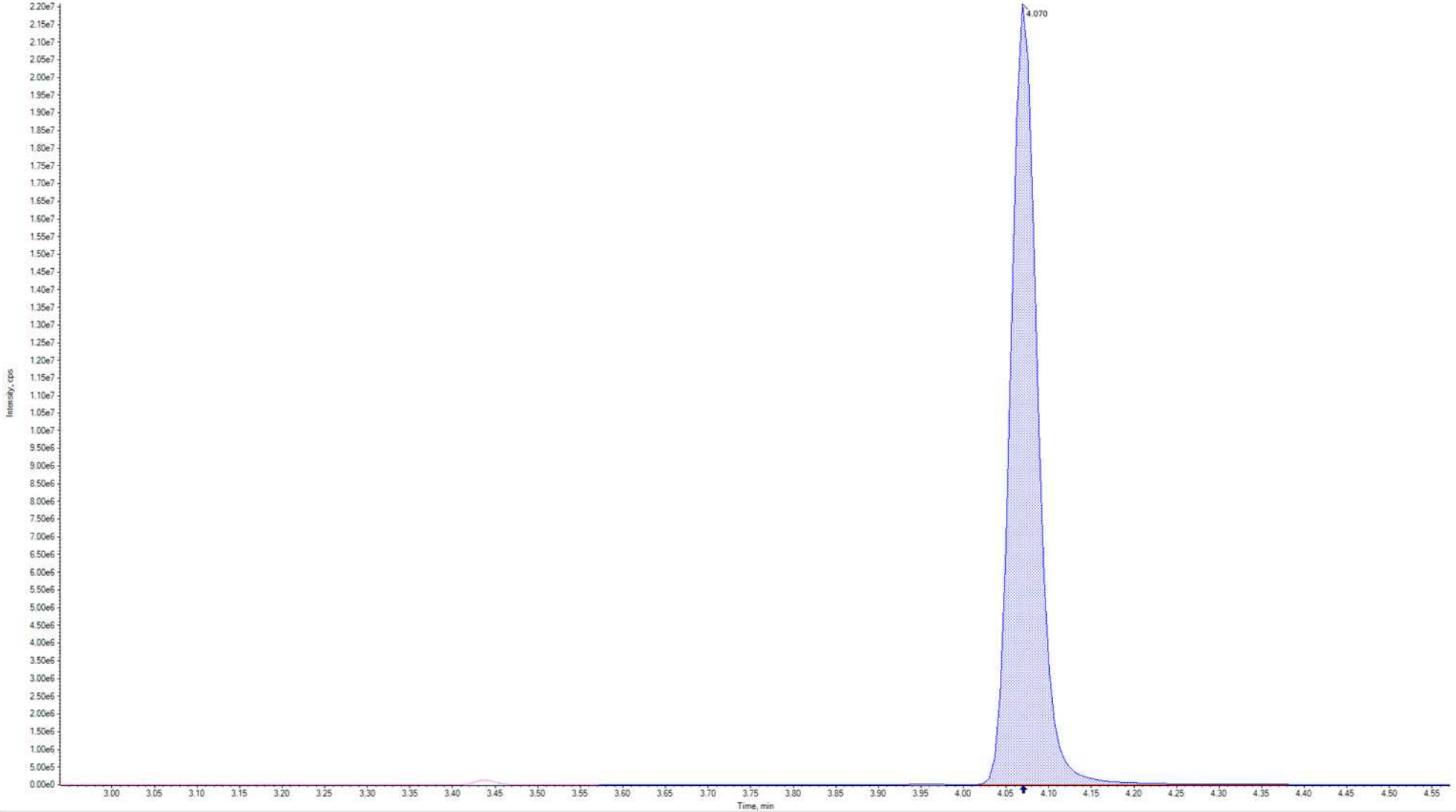
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5:3FTCA_2
Sample: IA1633STD-50 S/N:21608.5 Points Across peak:60



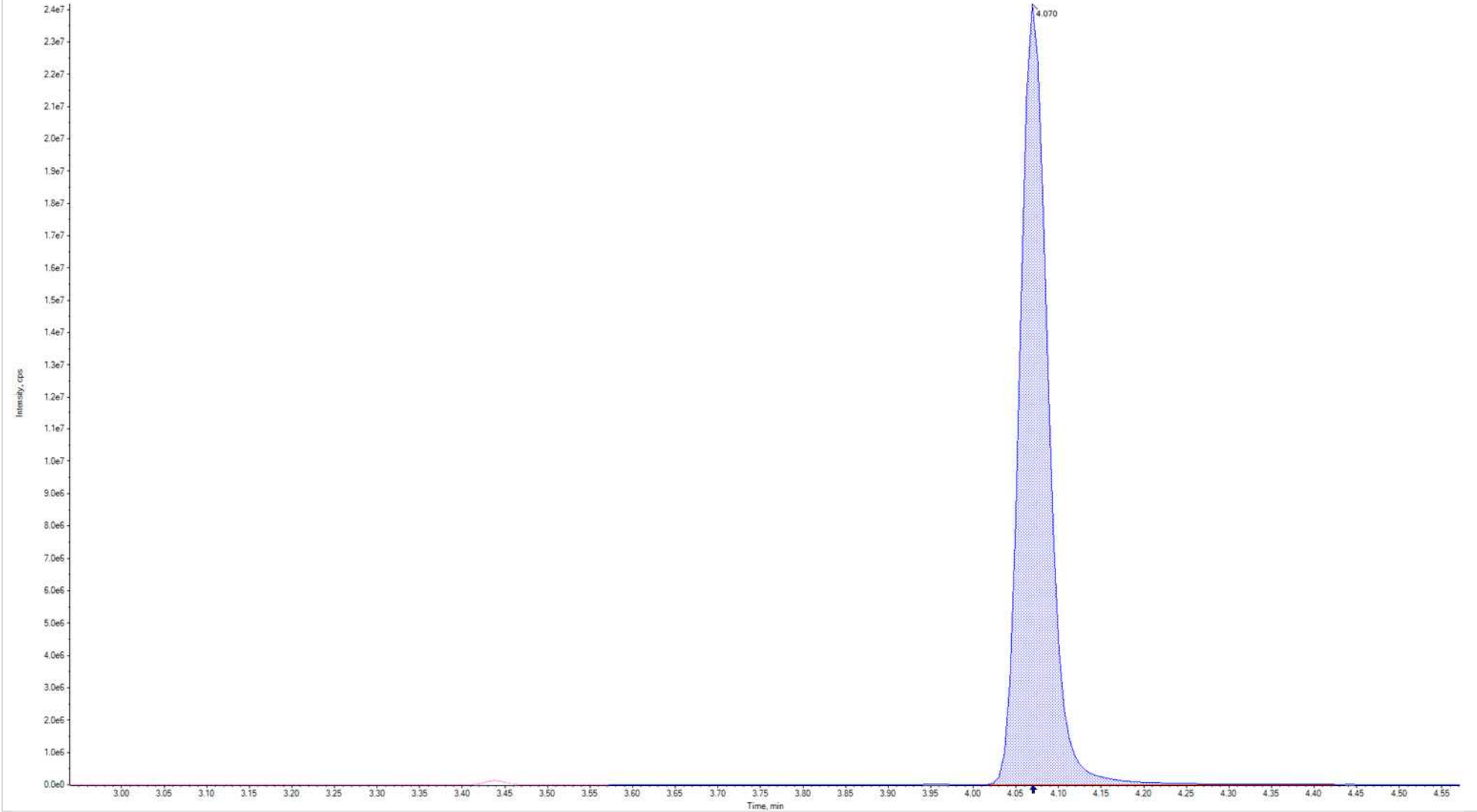
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Alpha Analytical LLC
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7:3FTCA
Sample: IA1633STD-50 S/N:36509.9 Points Across peak:65



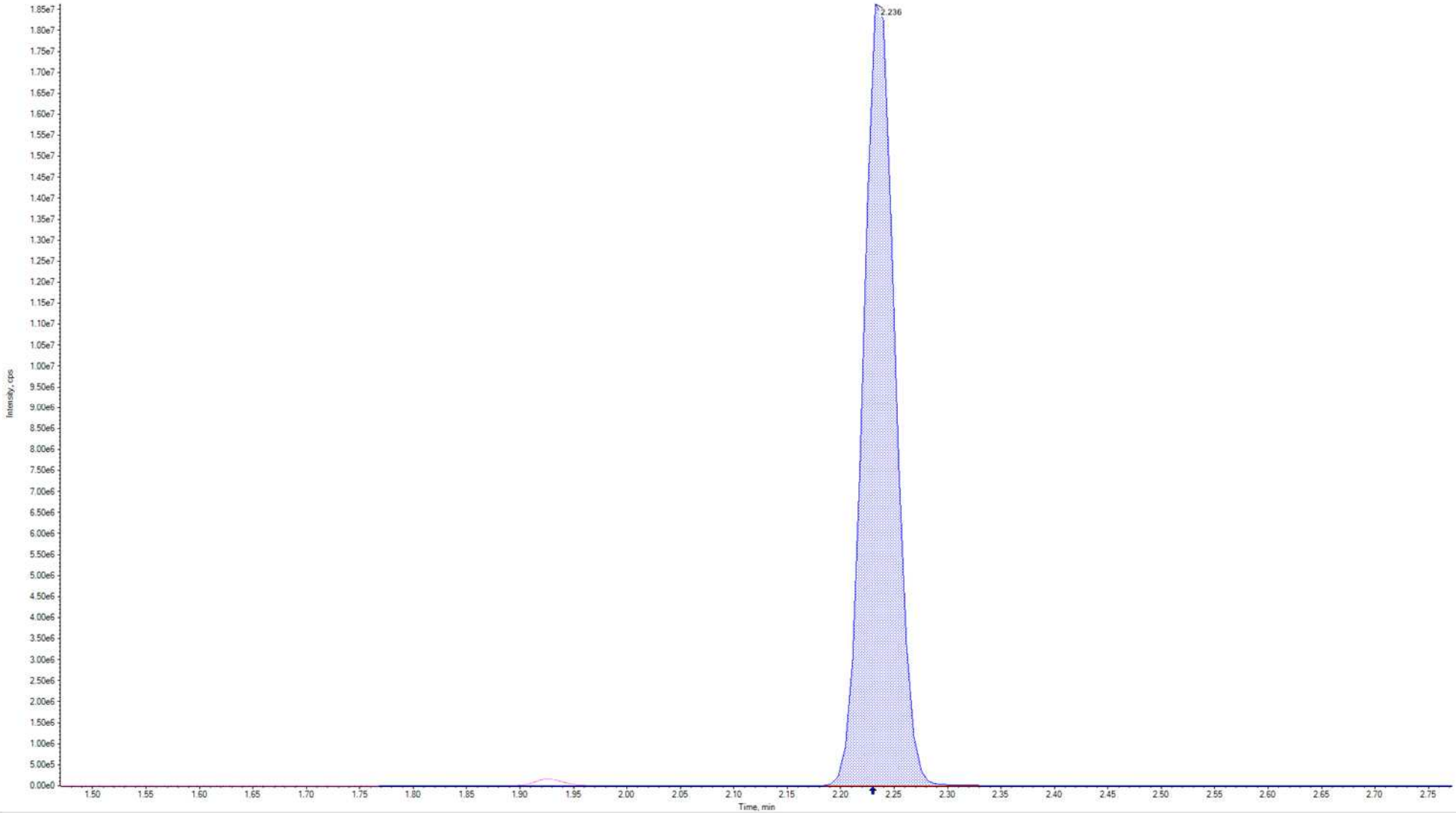
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7:3FTCA_2
Sample: IA1633STD-50 S/N:38591.4 Points Across peak:68



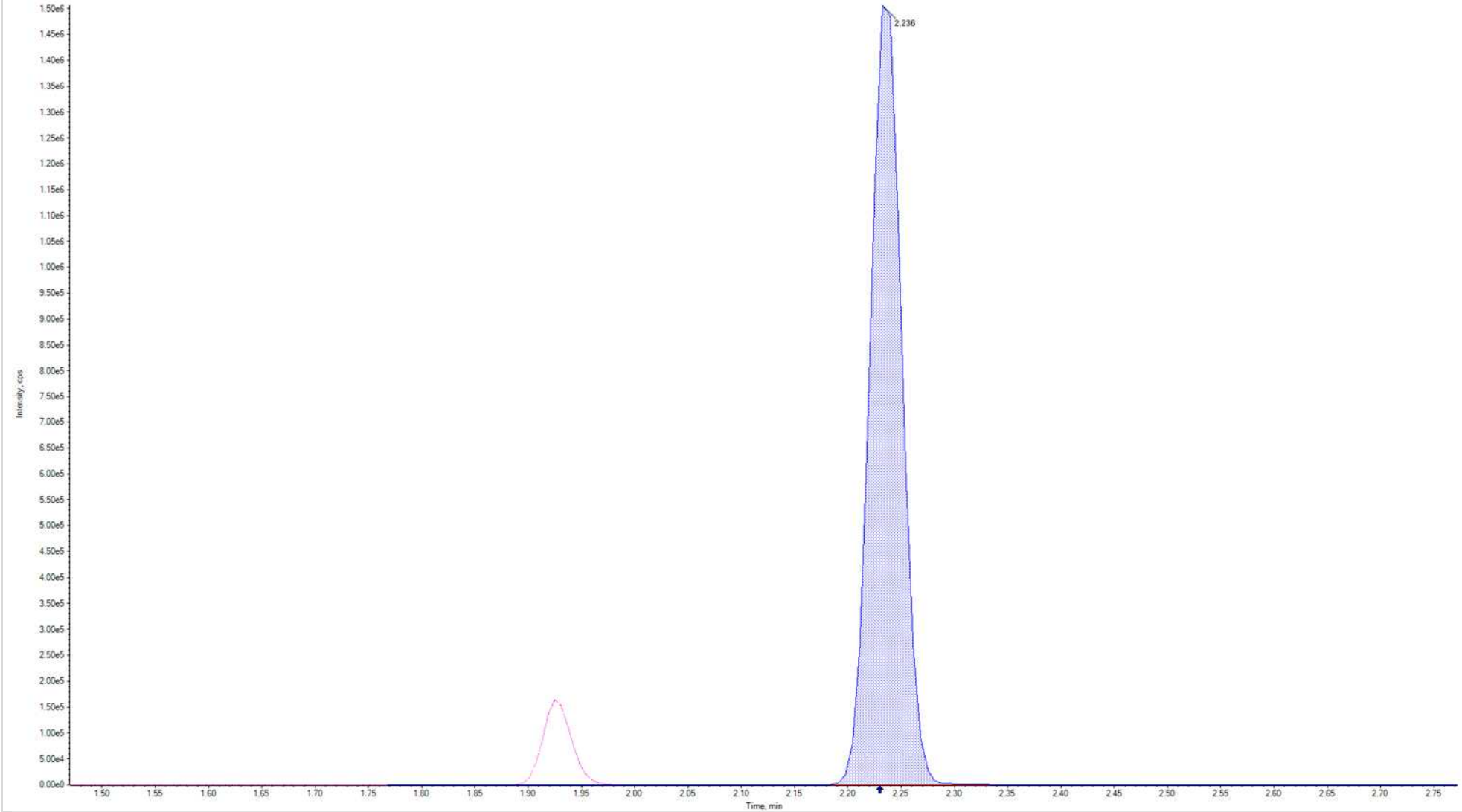
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PFEESA
Sample: IA1633STD-50 S/N:420262.4 Points Across peak:33



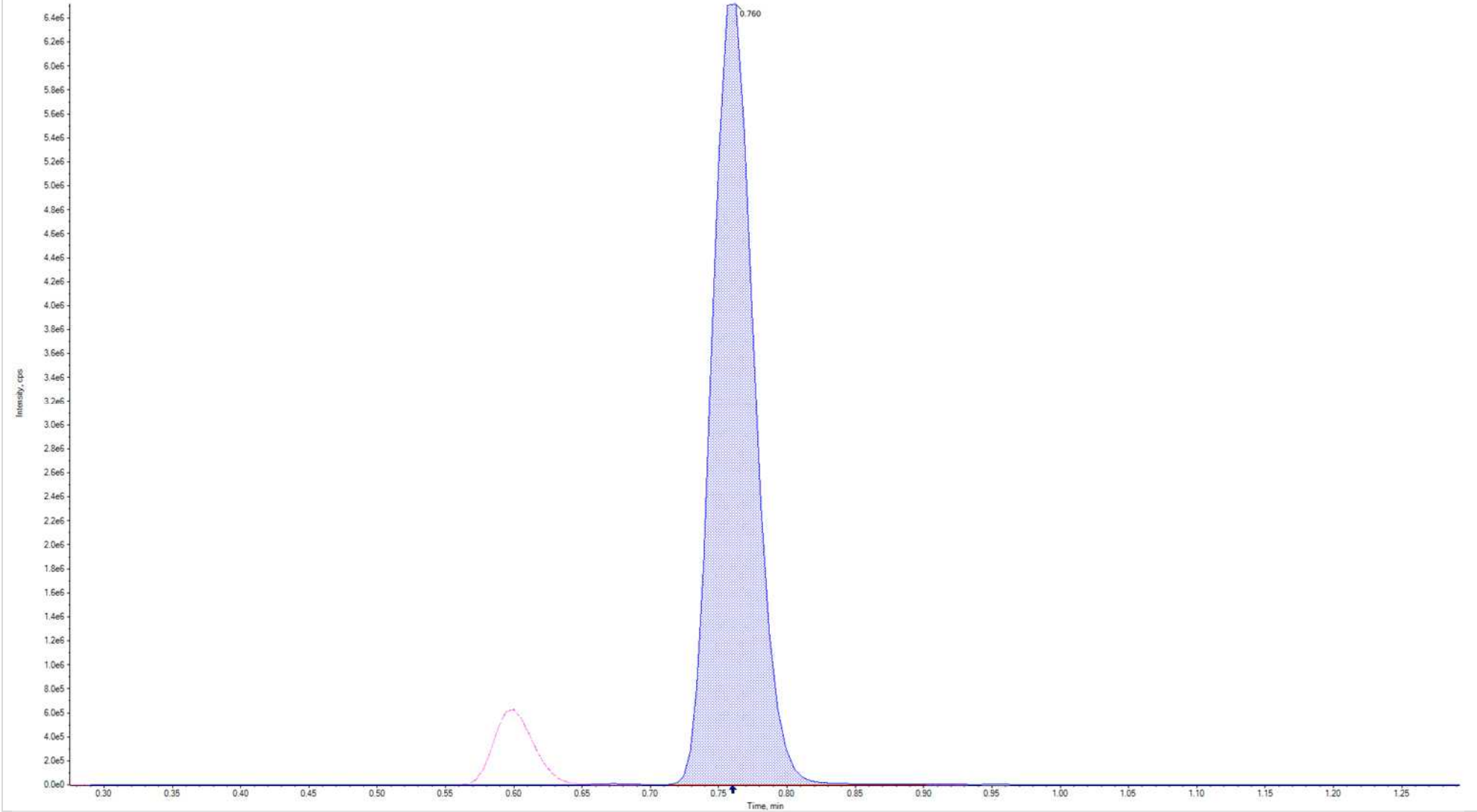
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFEESA_2
Sample: IA1633STD-50 S/N:6748.9 Points Across peak:29



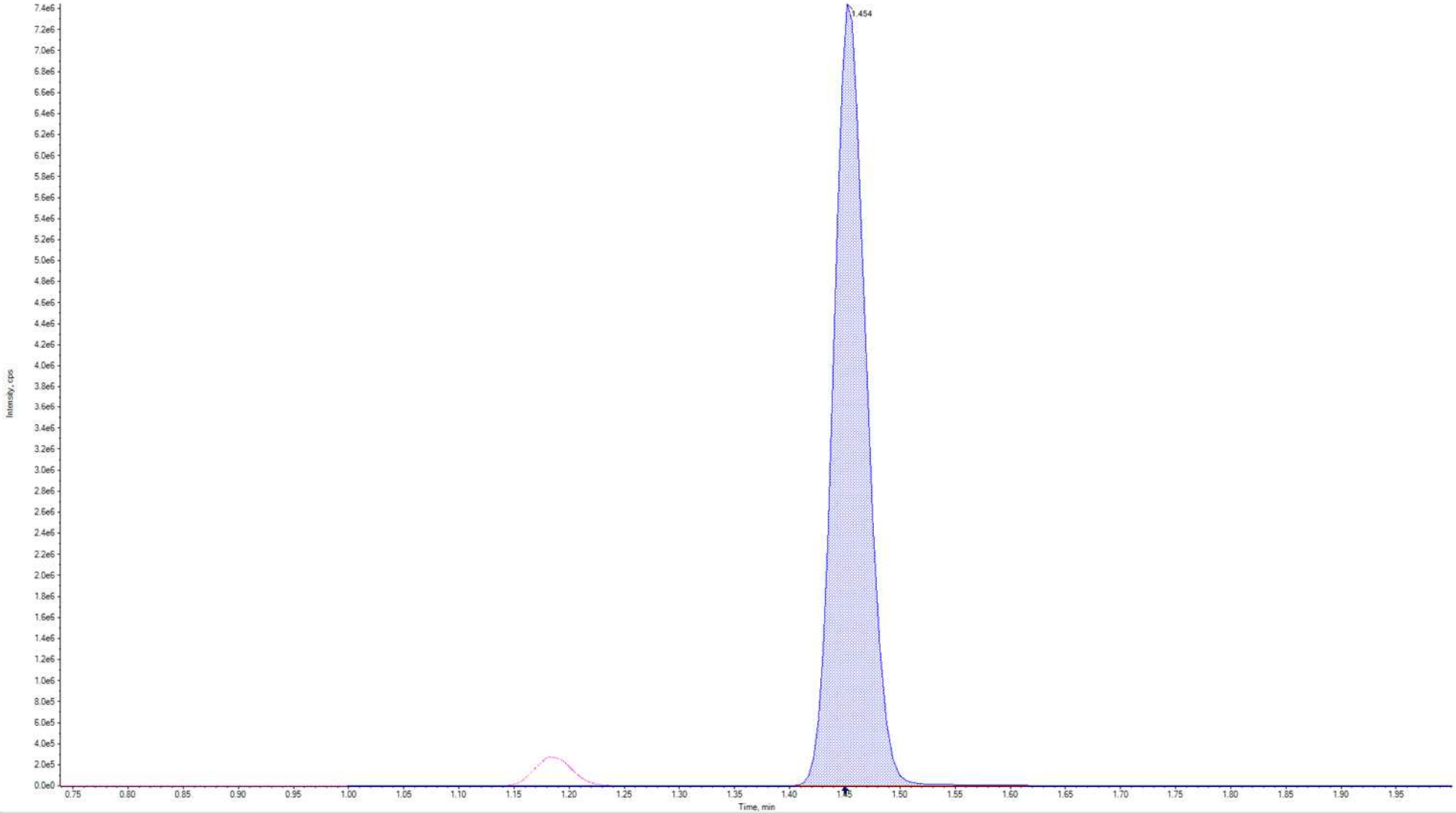
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PFMPA
Sample: IA1633STD-50 S/N:26984.3 Points Across peak:36



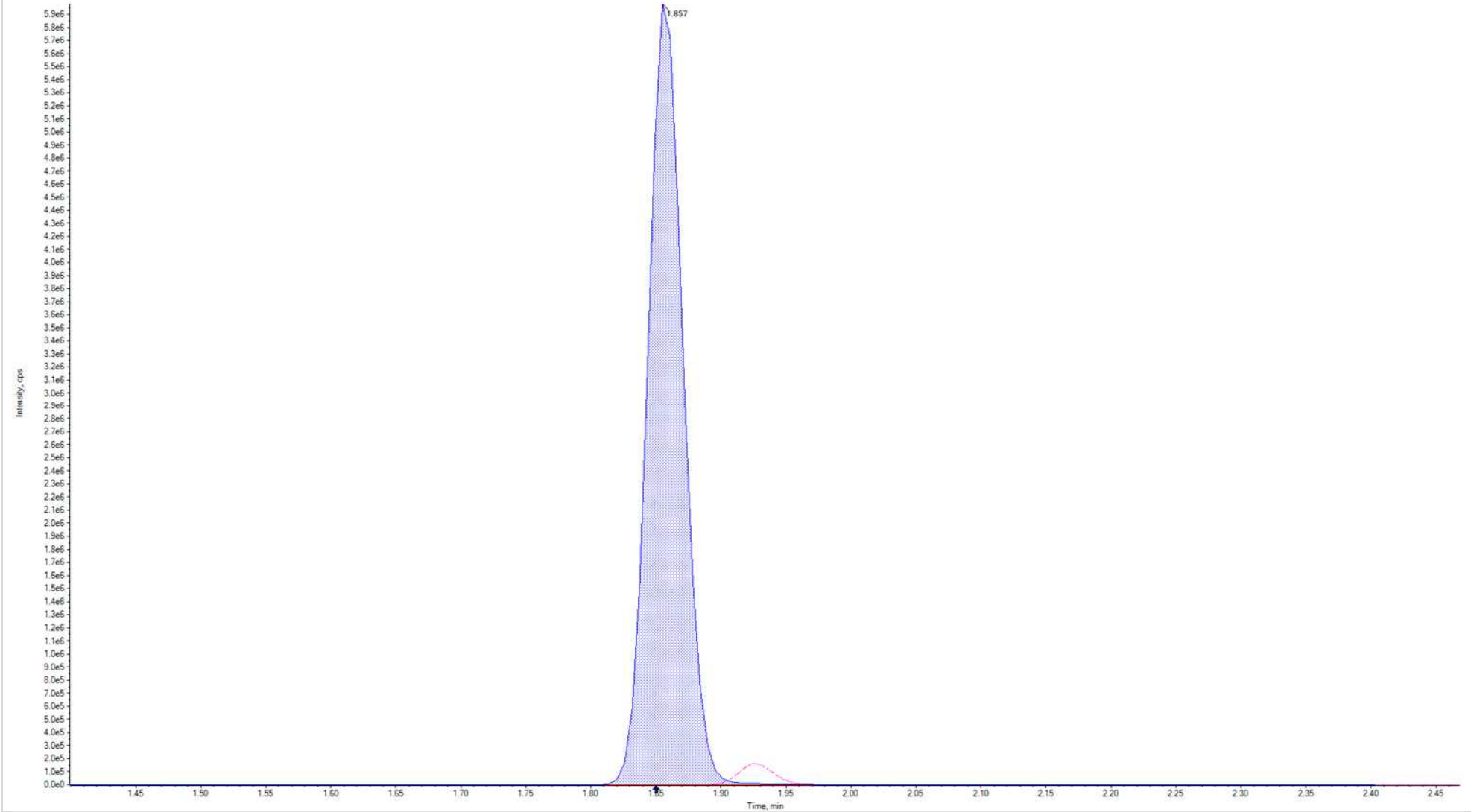
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Alpha Analytical LLC
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PFMBA
Sample: IA1633STD-50 S/N:47522.7 Points Across peak:55



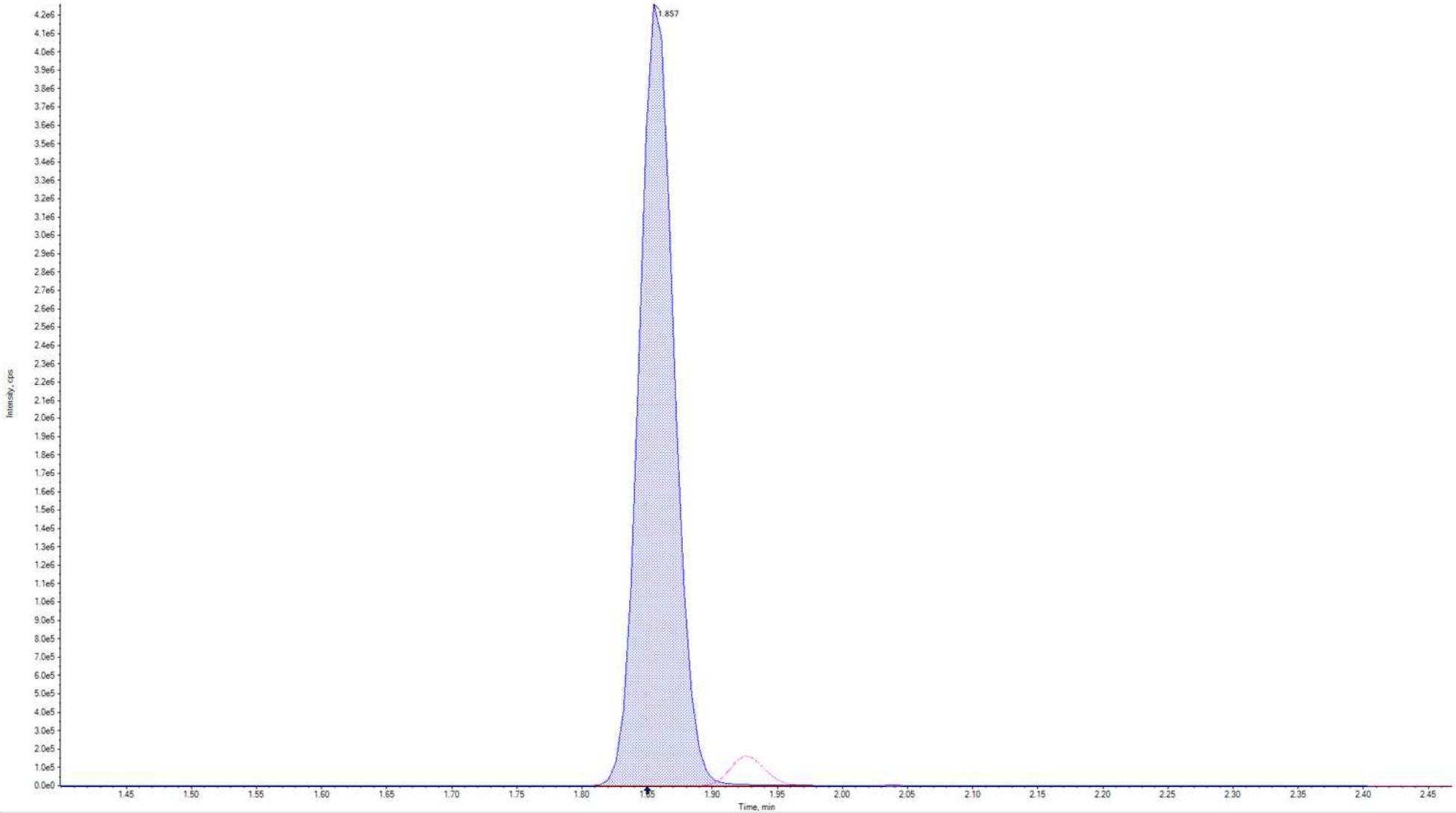
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Alpha Analytical LLC
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NFDHA
Sample: IA1633STD-50 S/N:164883.5 Points Across peak:34

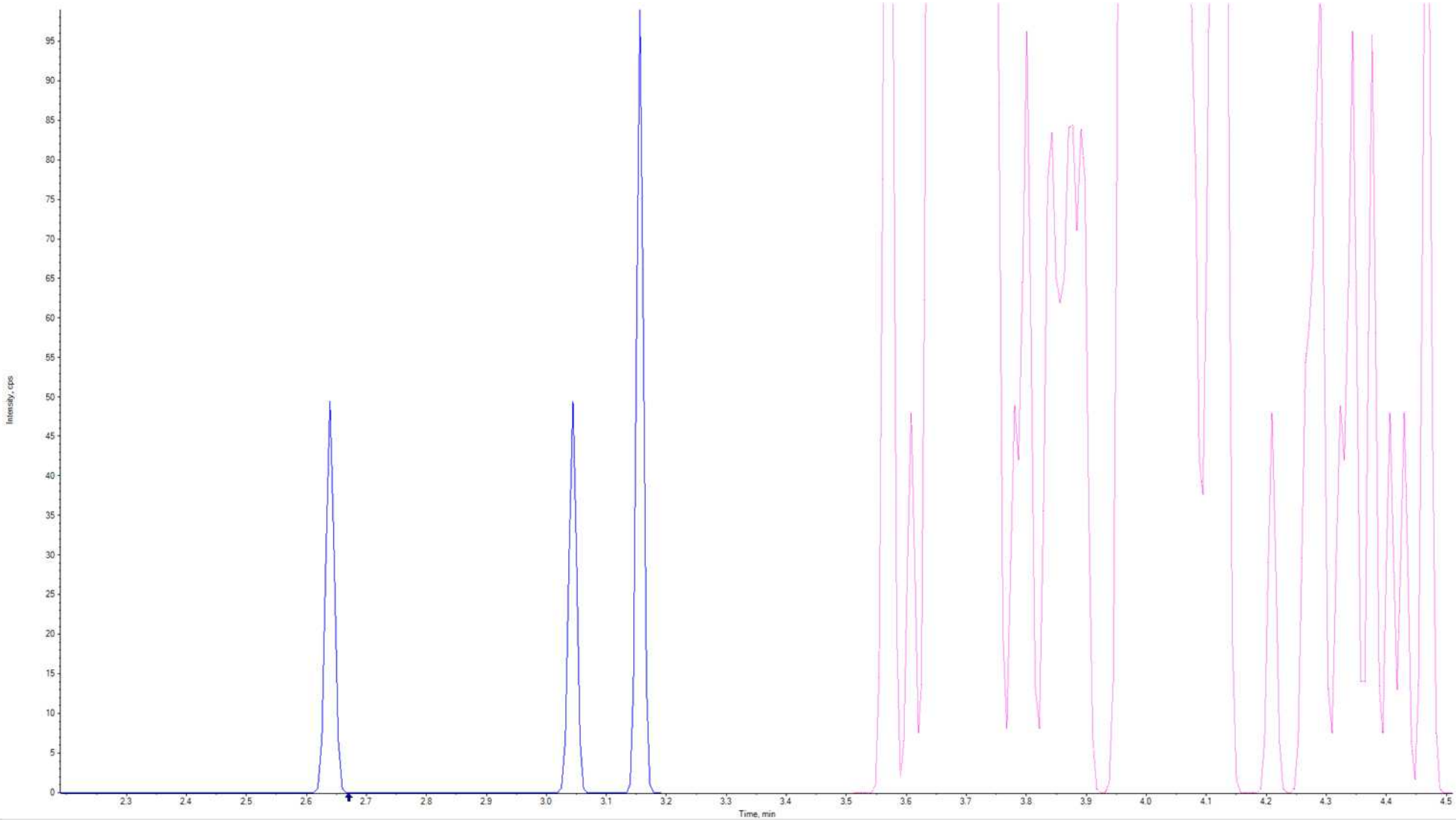


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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NFDHA_2
Sample: IA1633STD-50 S/N:117491.9 Points Across peak:38

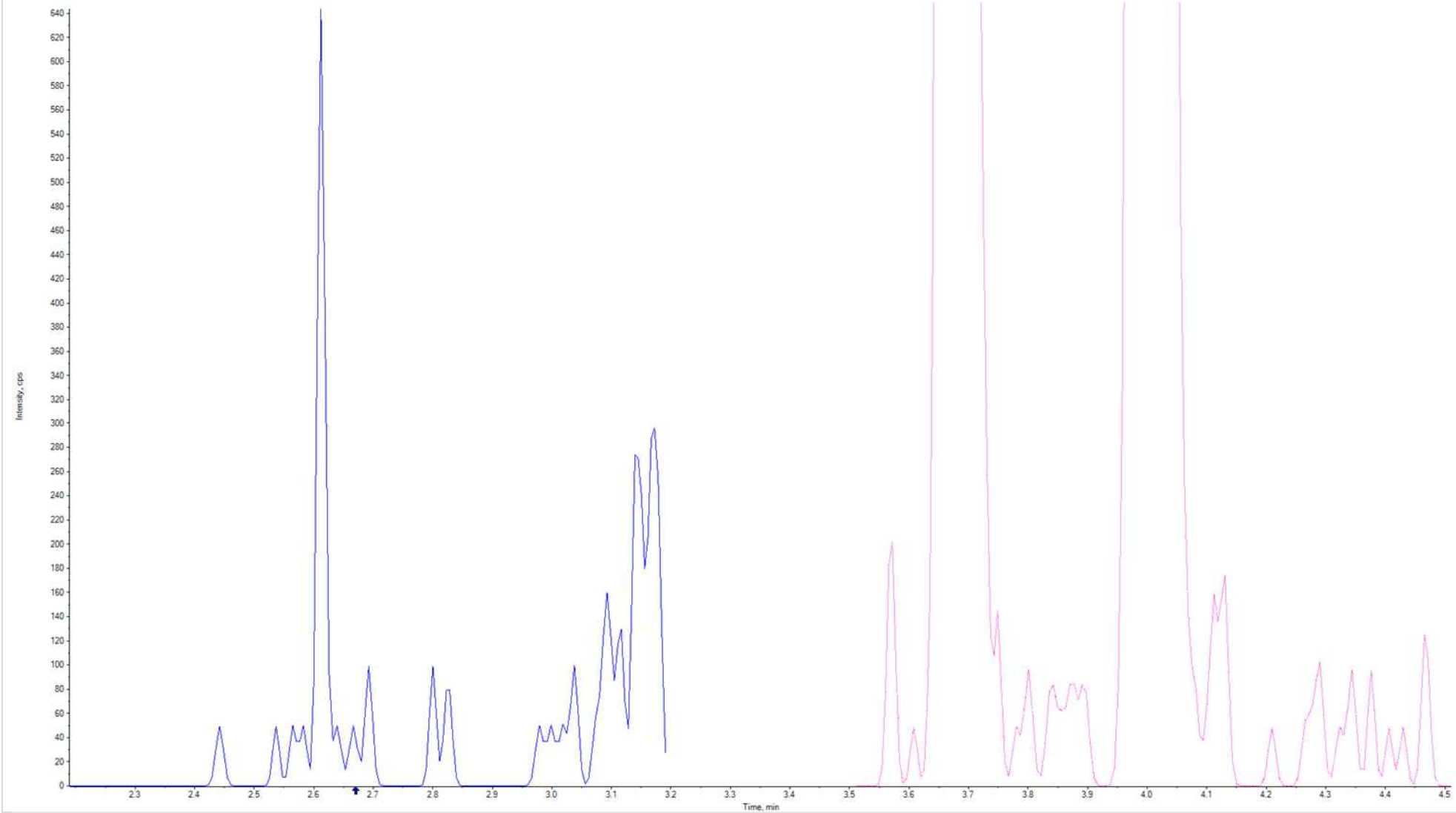


TDCA
Sample: IA1633STD-50 S/N:N/A Points Across peak:N/A



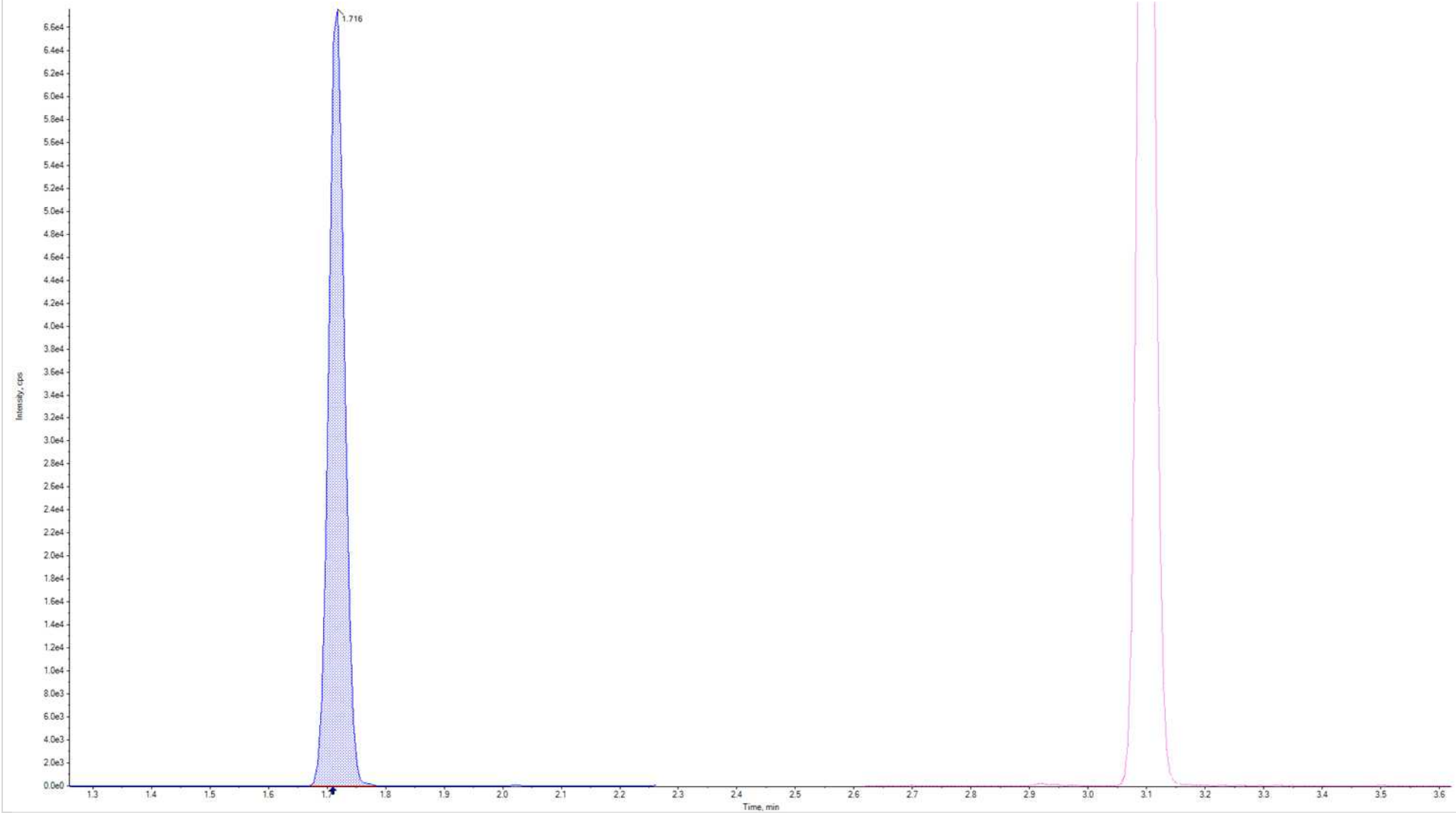
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Last Altered: 3/4/2025 6:51:07 AM
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TDCA_2
Sample: IA1633STD-50 S/N:N/A Points Across peak:N/A



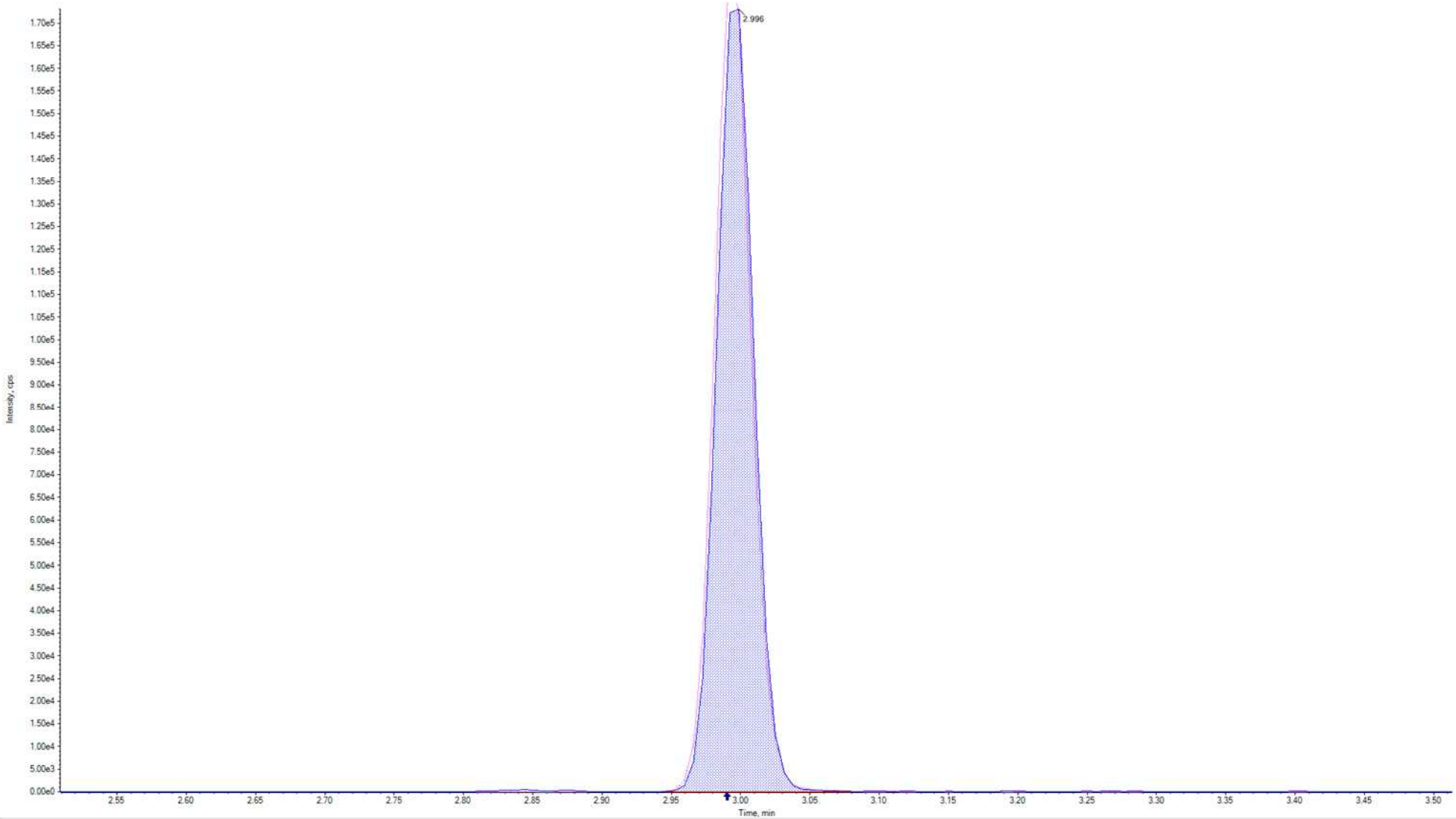
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13C2D4-4:2FTS
Sample: IA1633STD-50 S/N:2541.0 Points Across peak:29

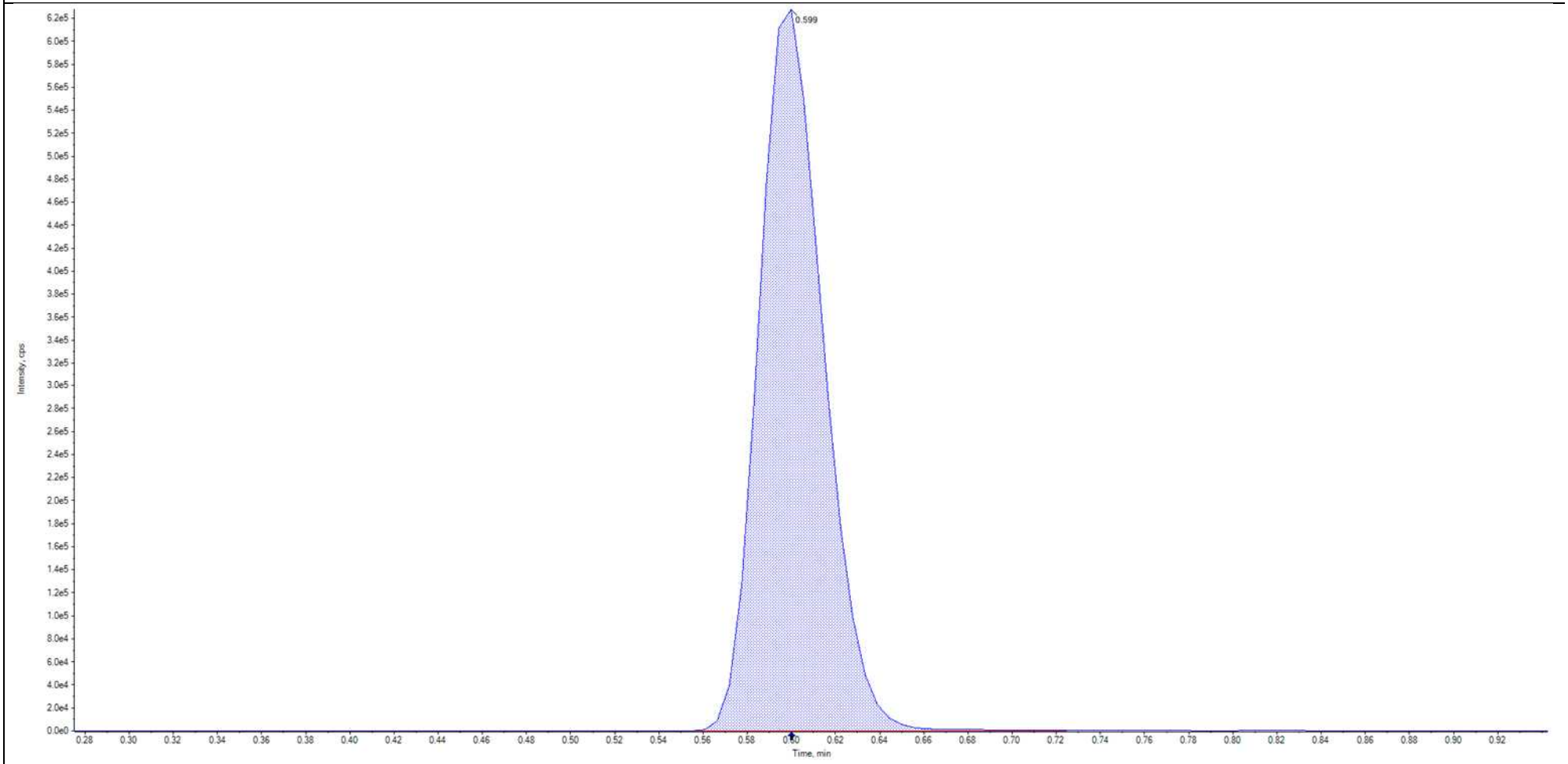


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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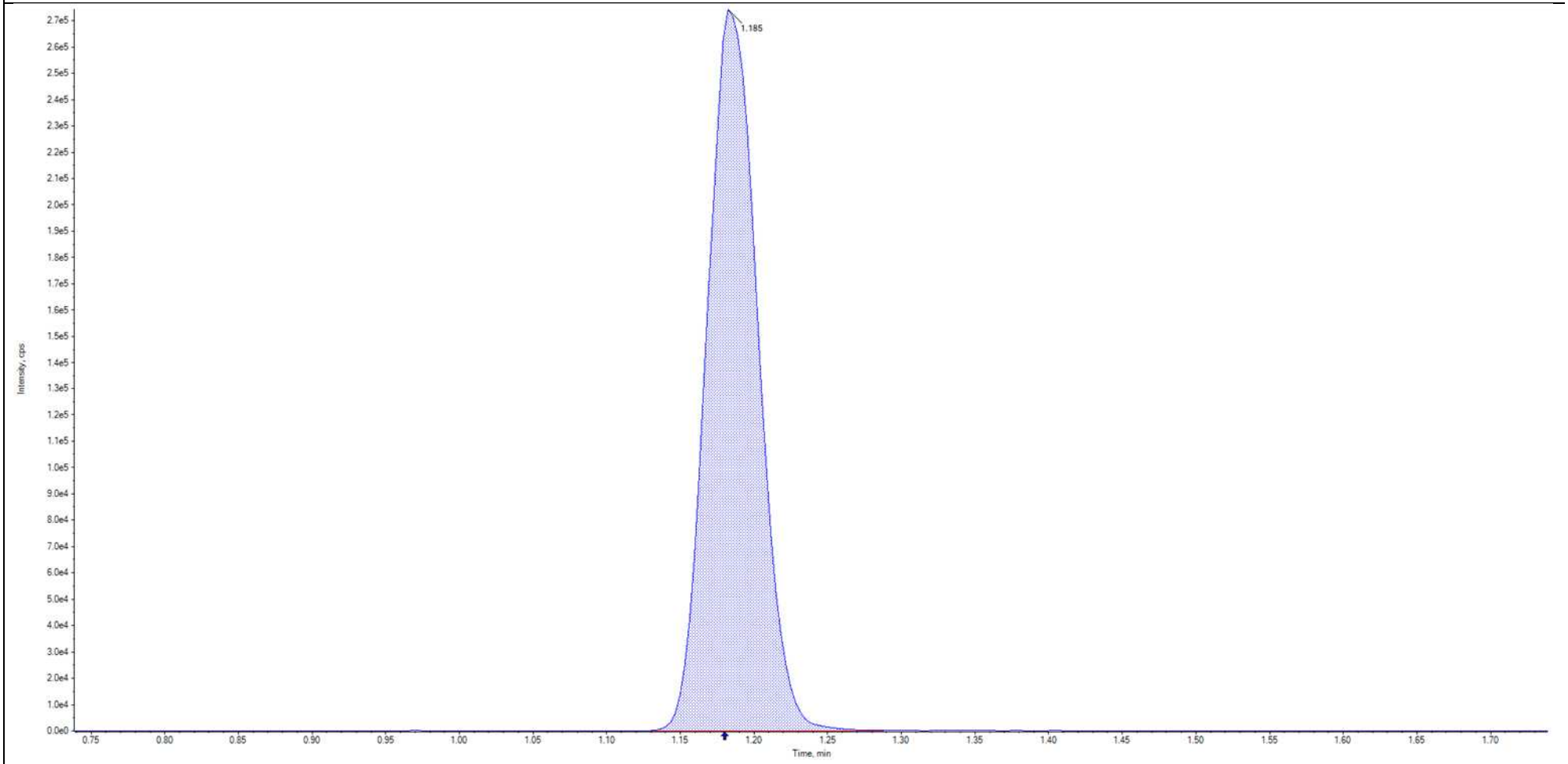
13C2-PFOA
Sample: IA1633STD-50 S/N:3757.1 Points Across peak:27



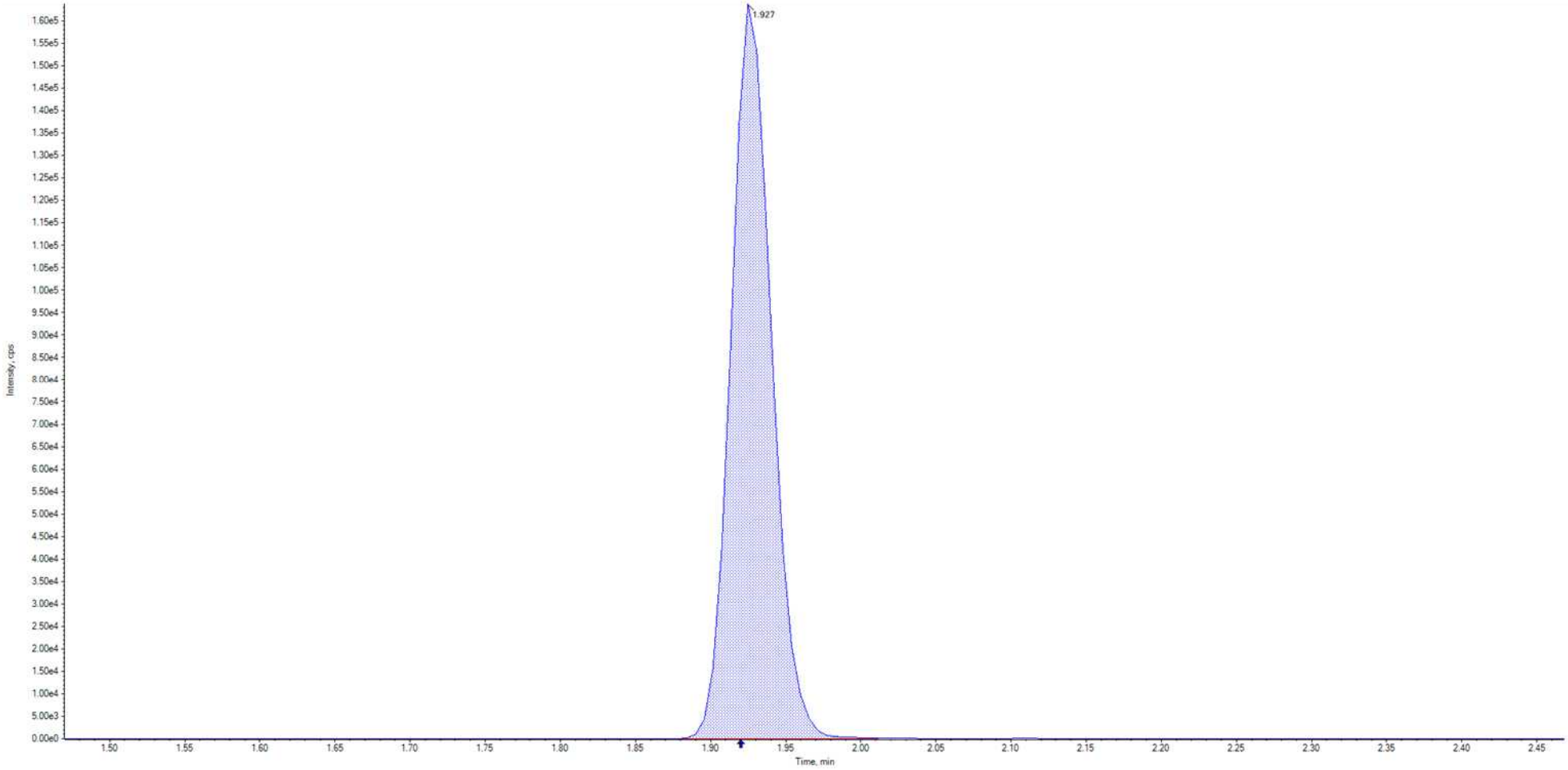
13C4-PFBA
Sample: IA1633STD-50



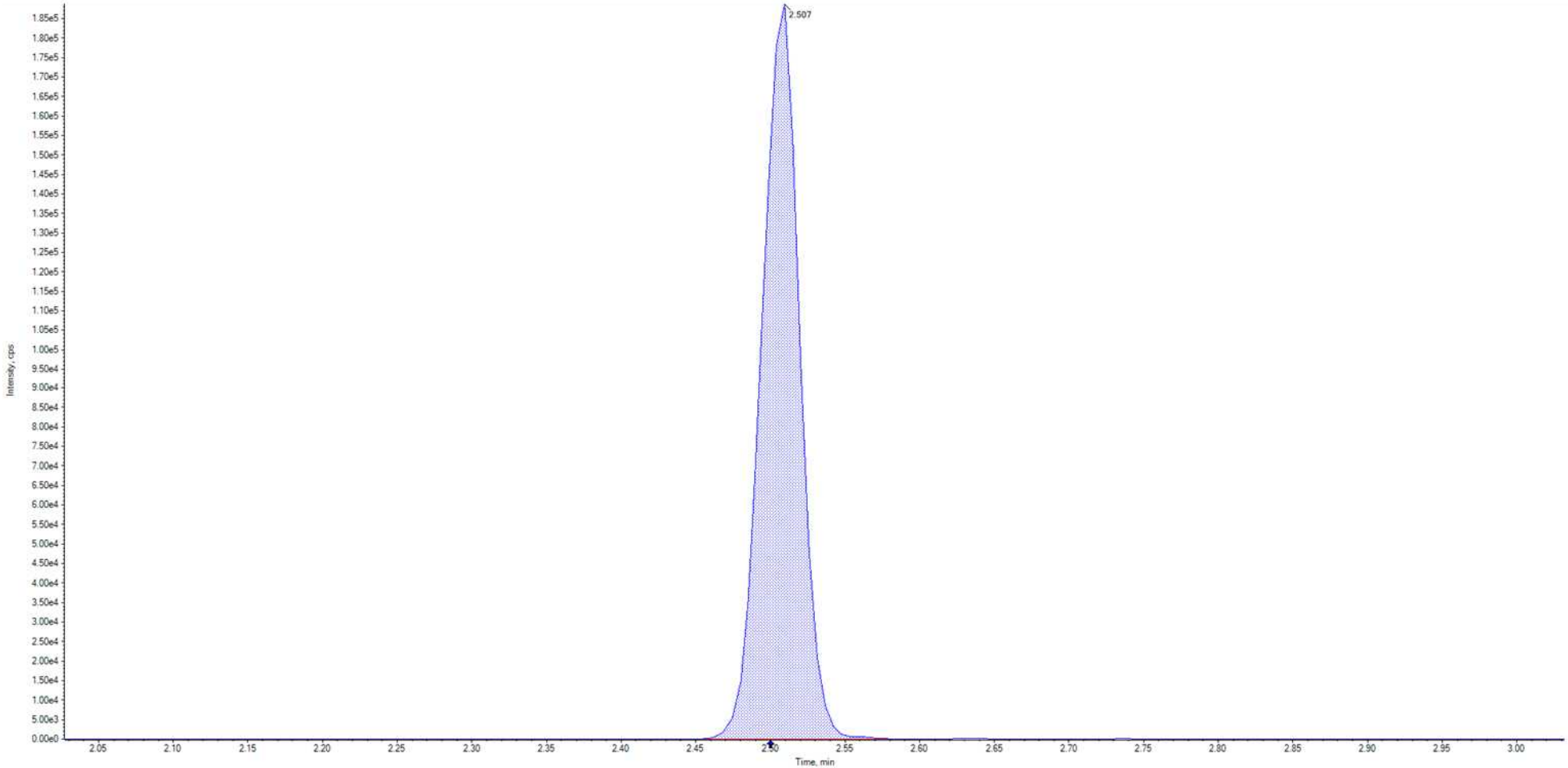
13C5-PFPeA
Sample: IA1633STD-50



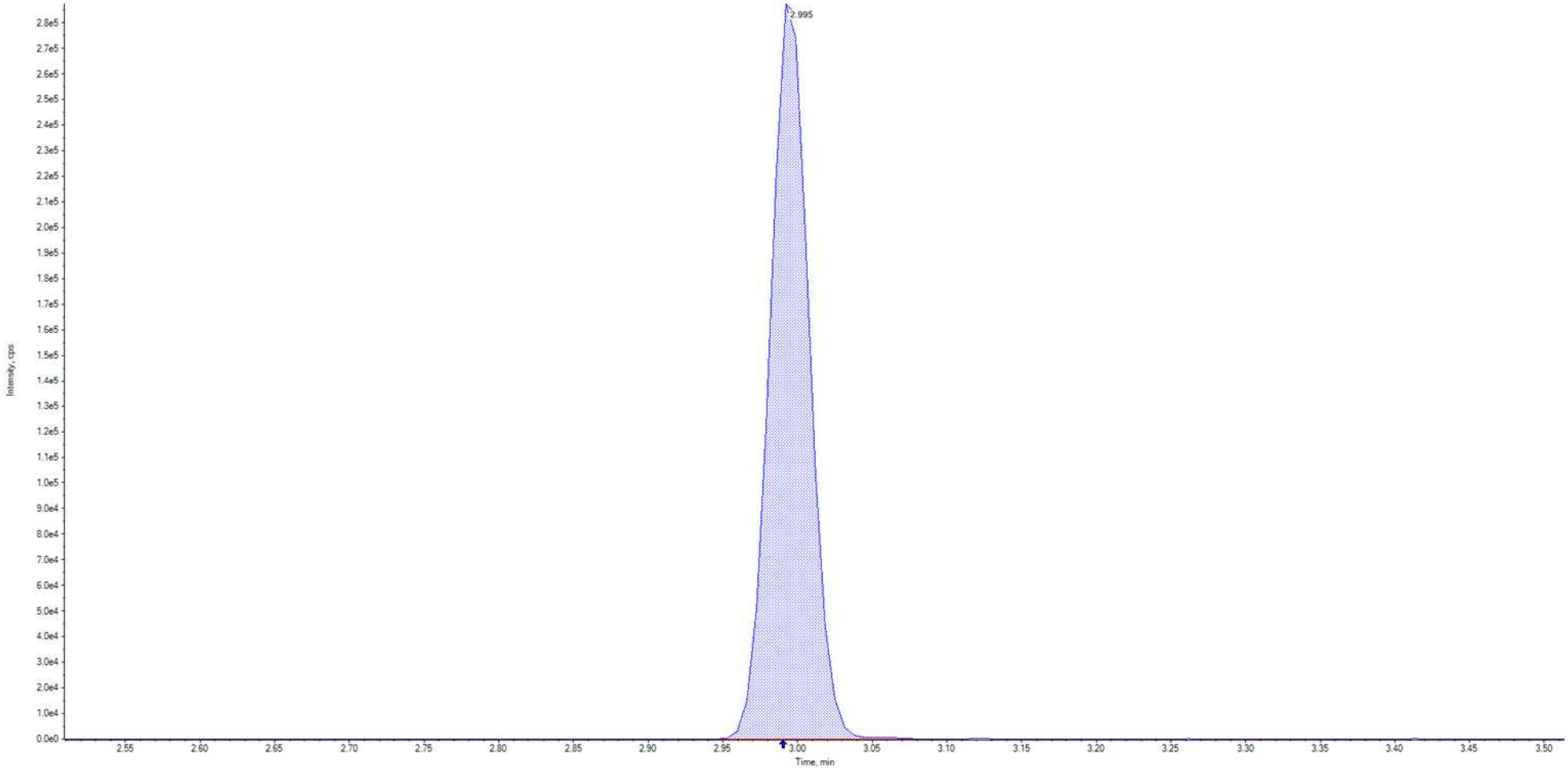
13C5-PFHxA
Sample: IA1633STD-50



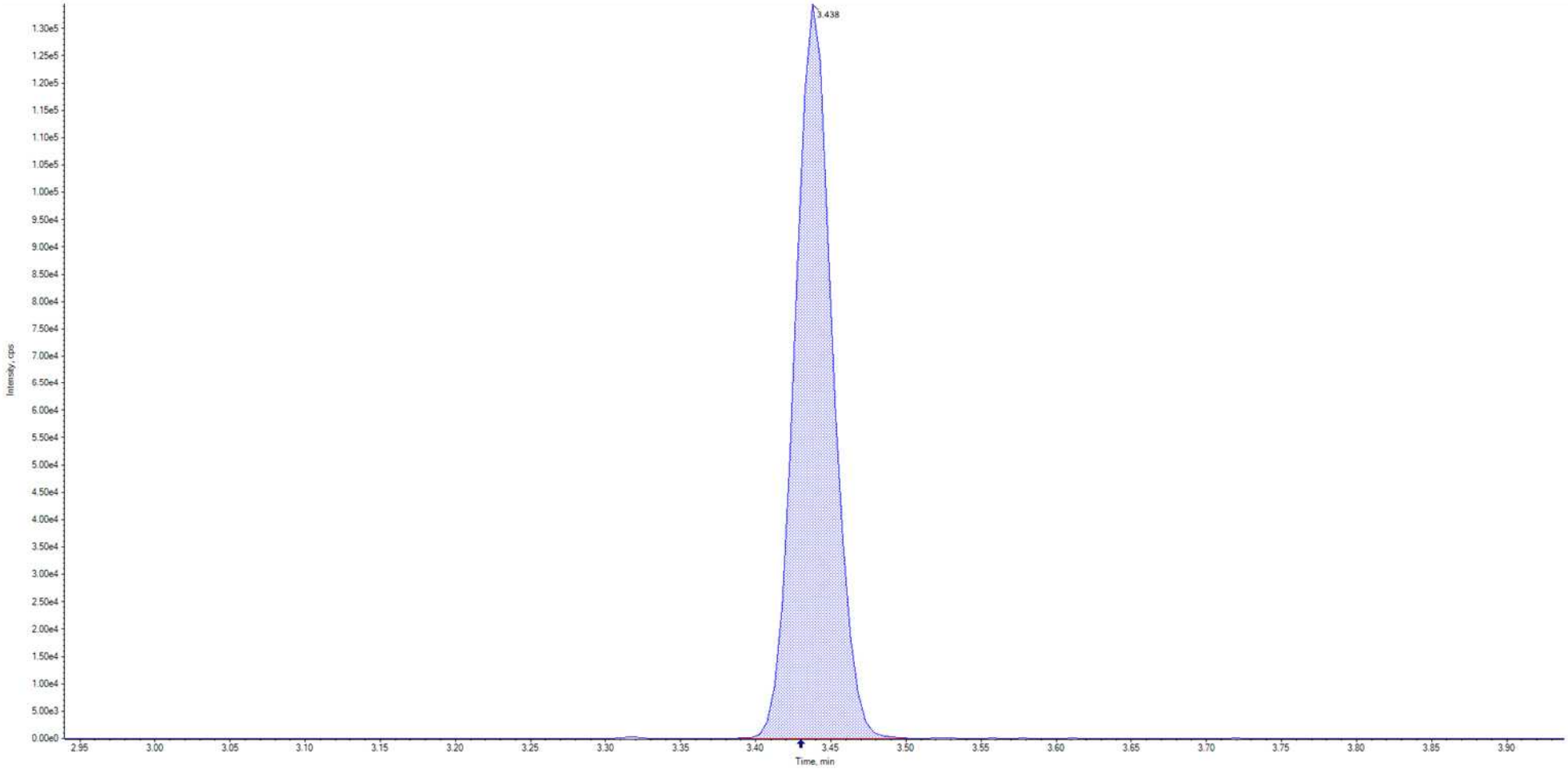
13C4-PFHpA
Sample: IA1633STD-50



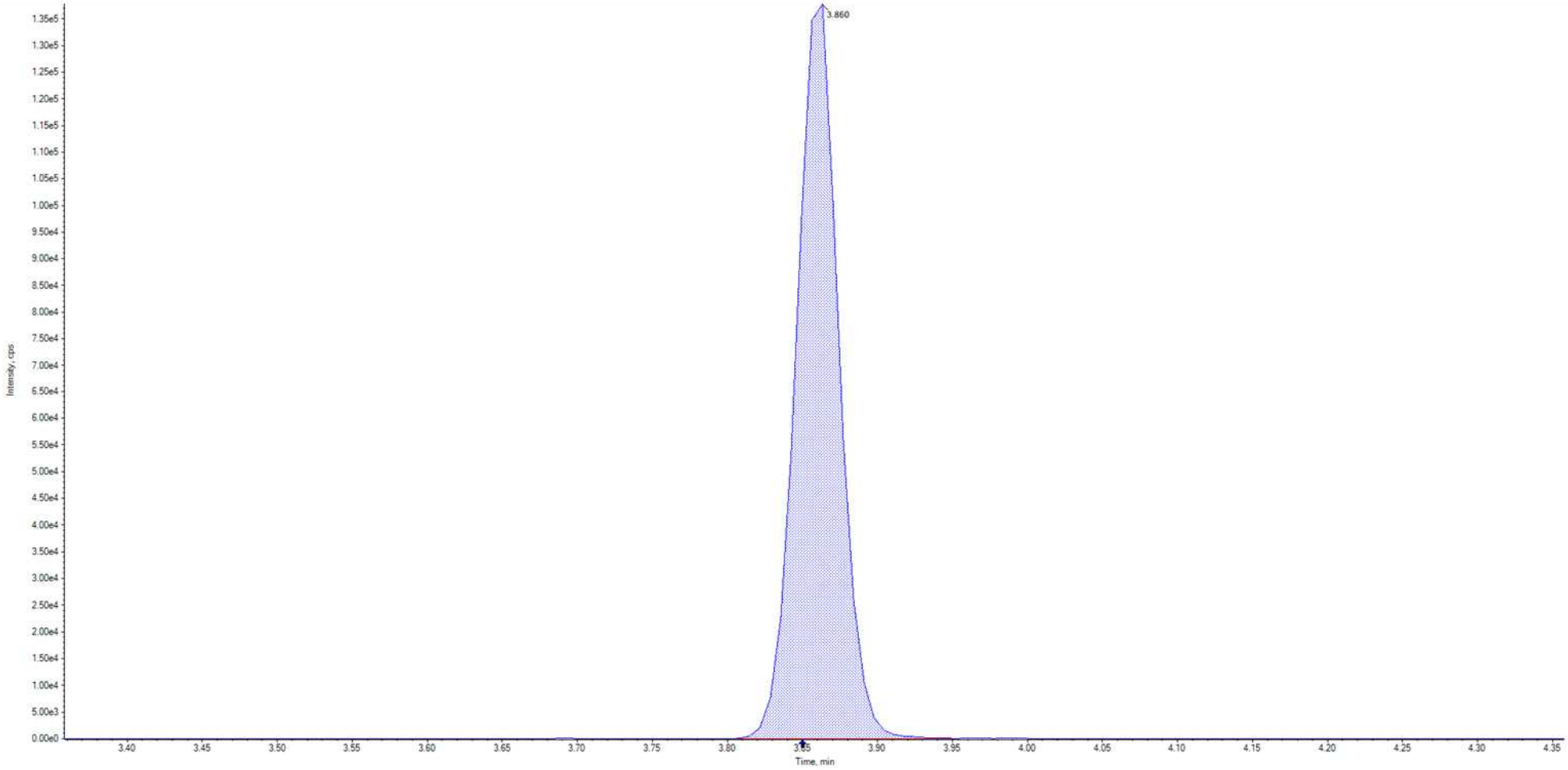
13C8-PFOA
Sample: IA1633STD-50



13C9-PFNA
Sample: IA1633STD-50

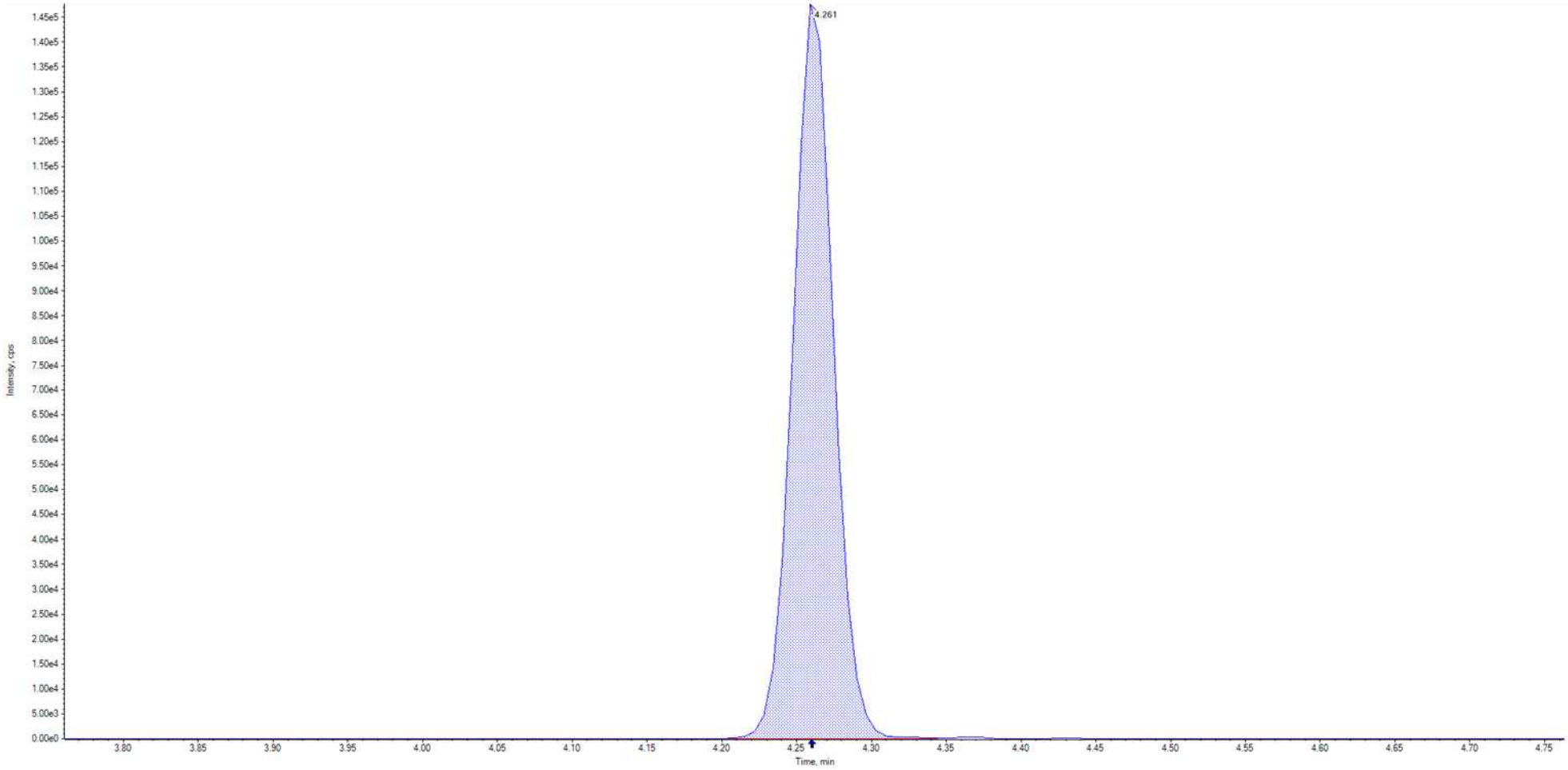


13C6-PFDA
Sample: IA1633STD-50

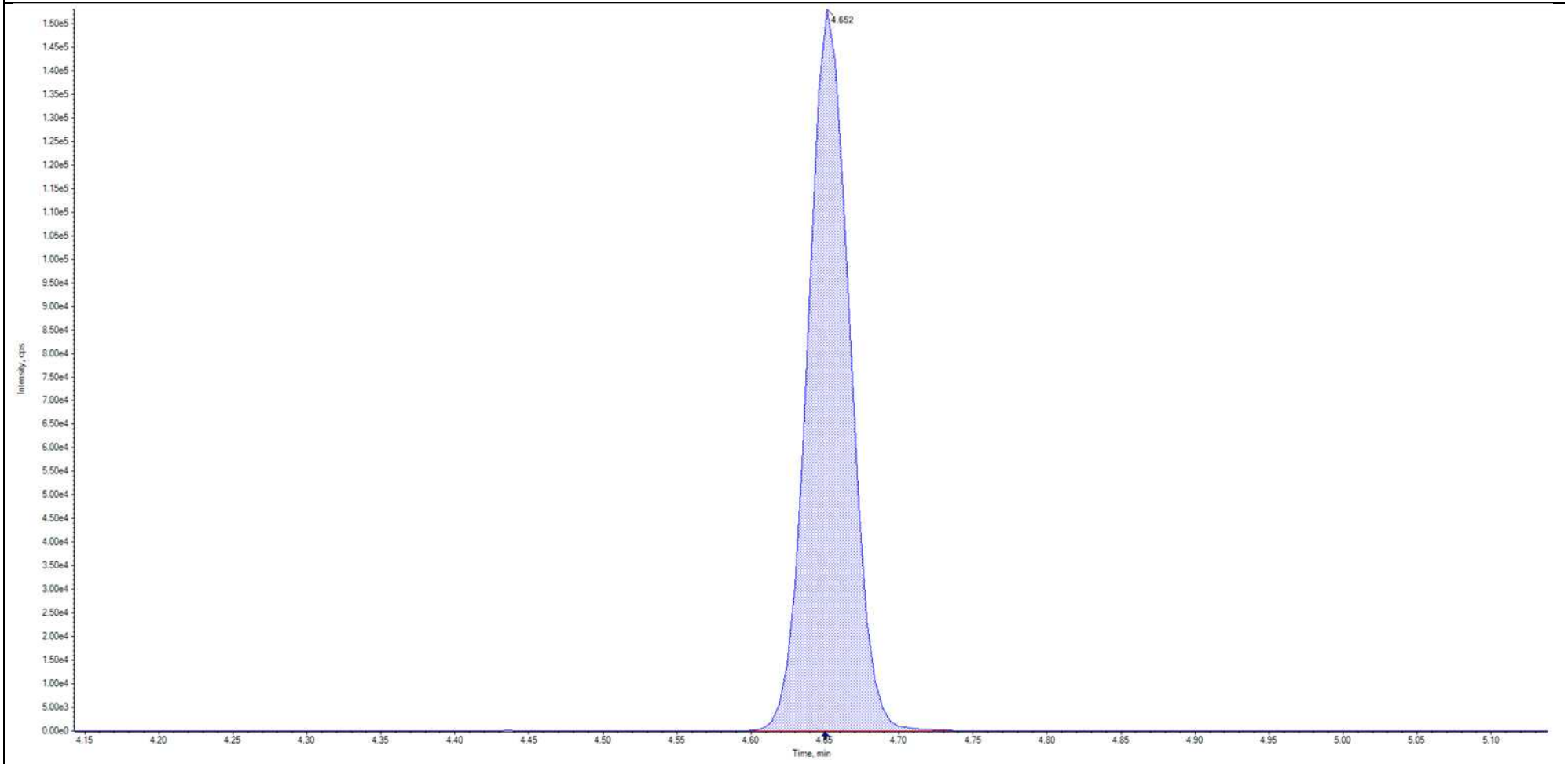


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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13C7-PFUnA
Sample: IA1633STD-50

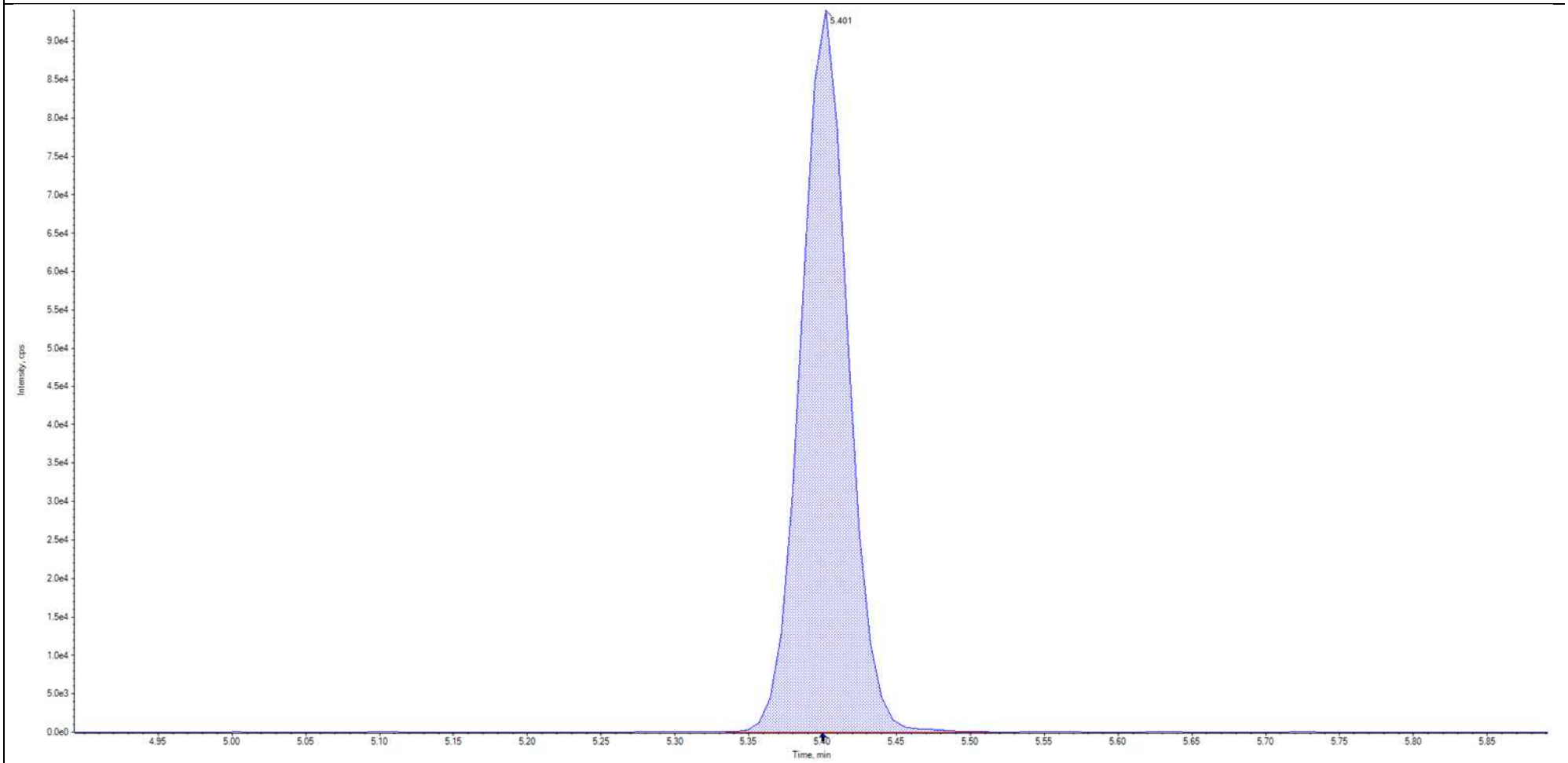


13C2-PFDoA
Sample: IA1633STD-50

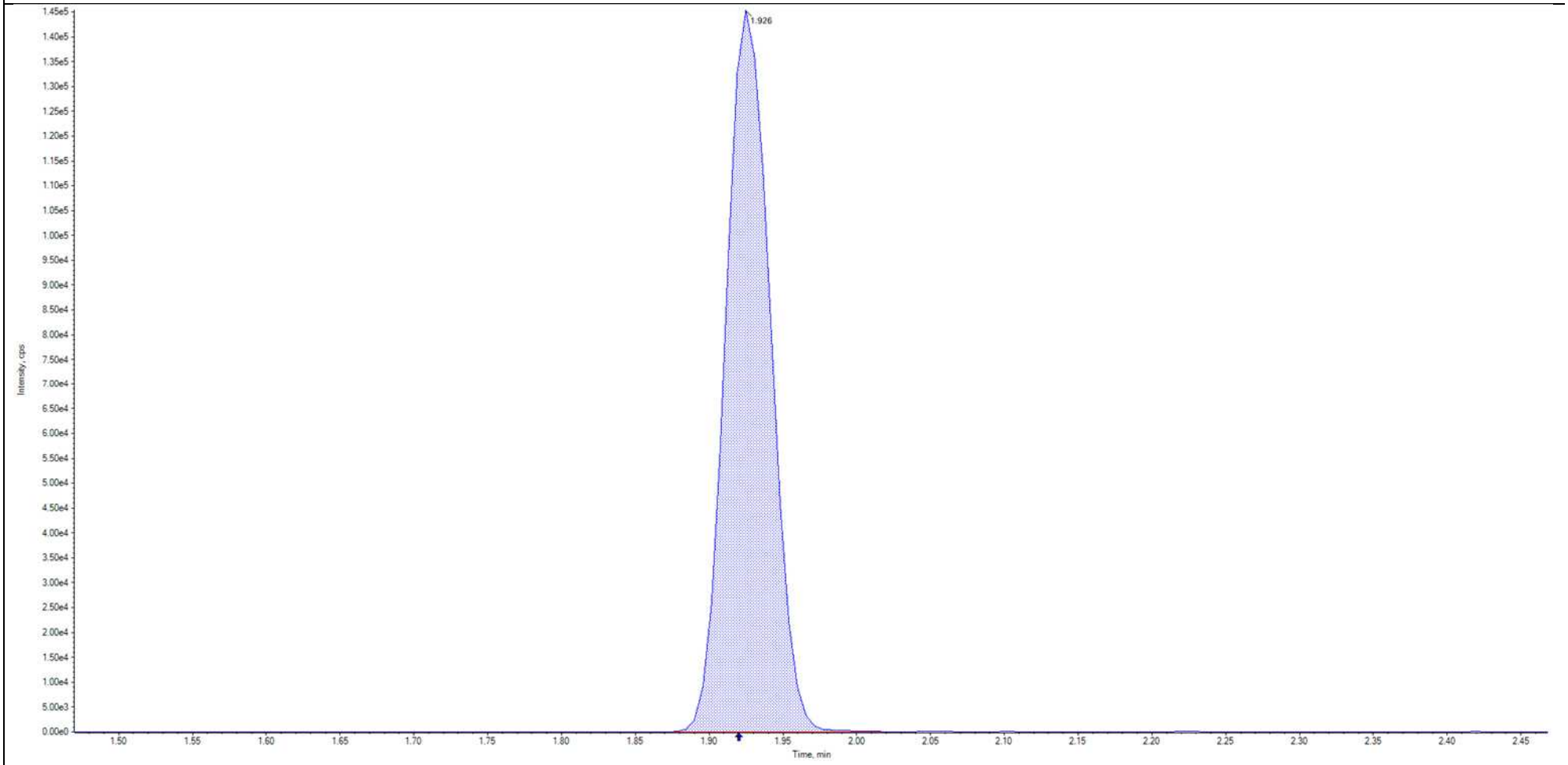


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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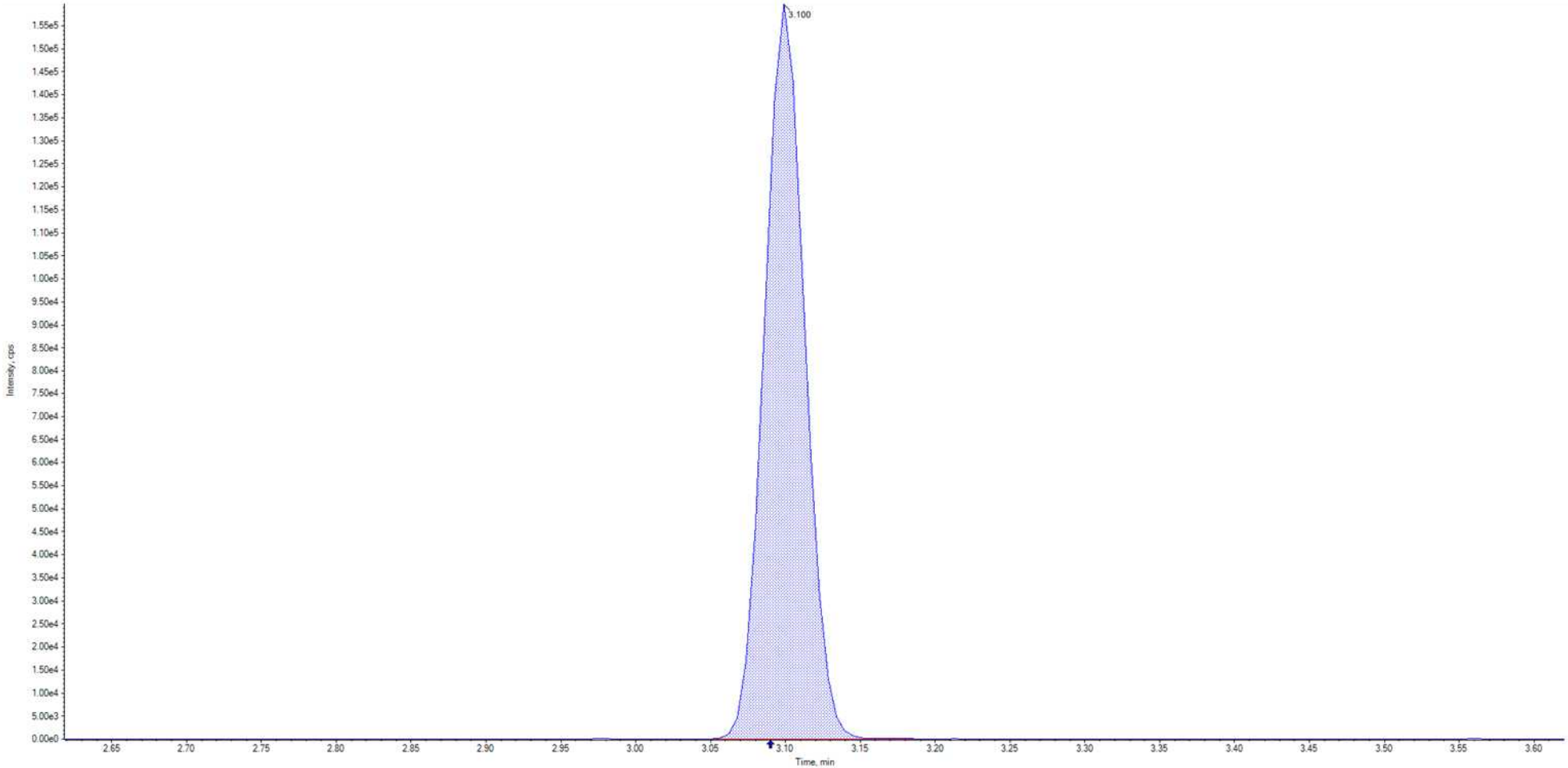
13C2-PFTeDA
Sample: IA1633STD-50



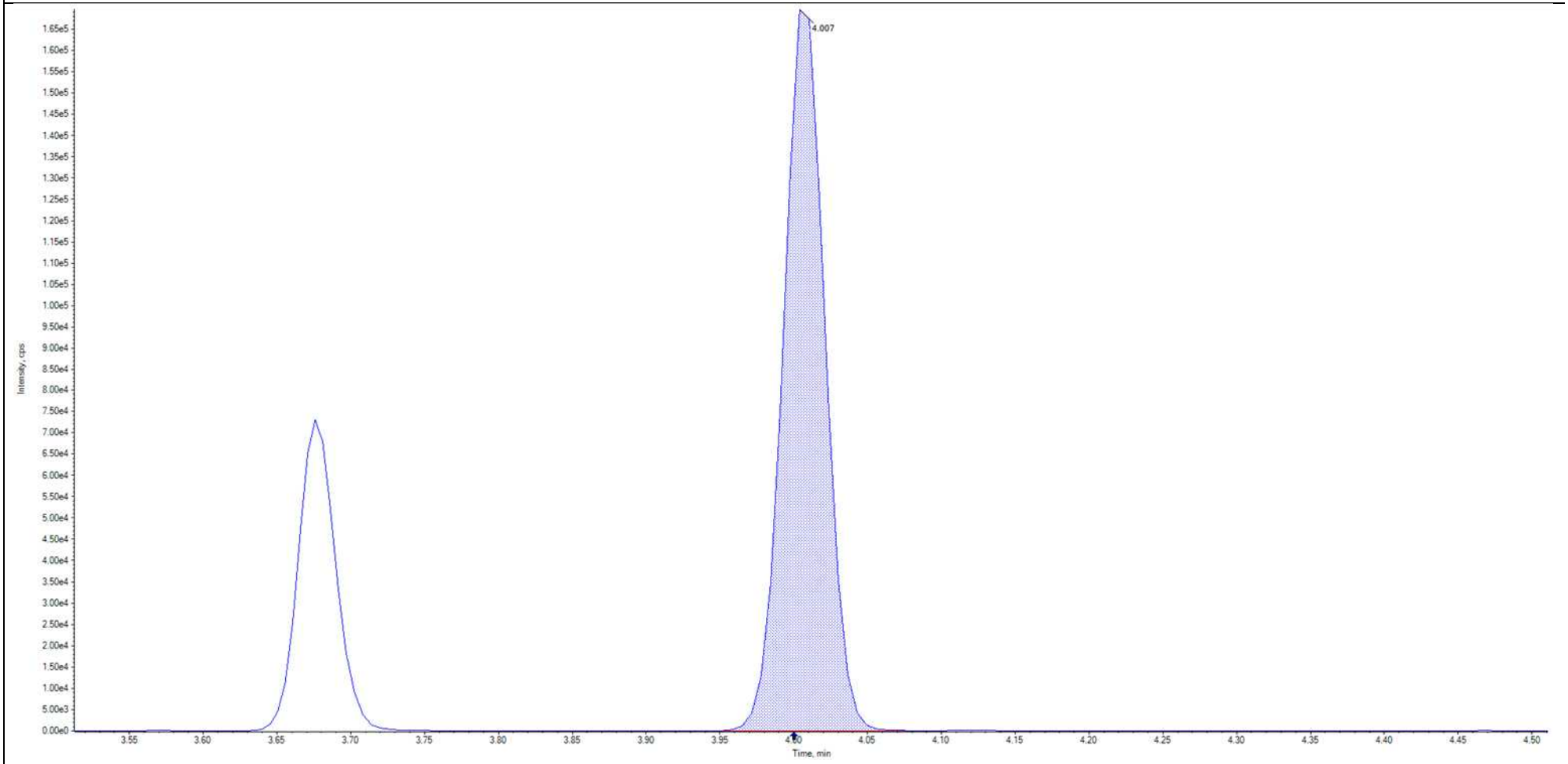
13C3-PFBS
Sample: IA1633STD-50



13C3-PFHxS
Sample: IA1633STD-50

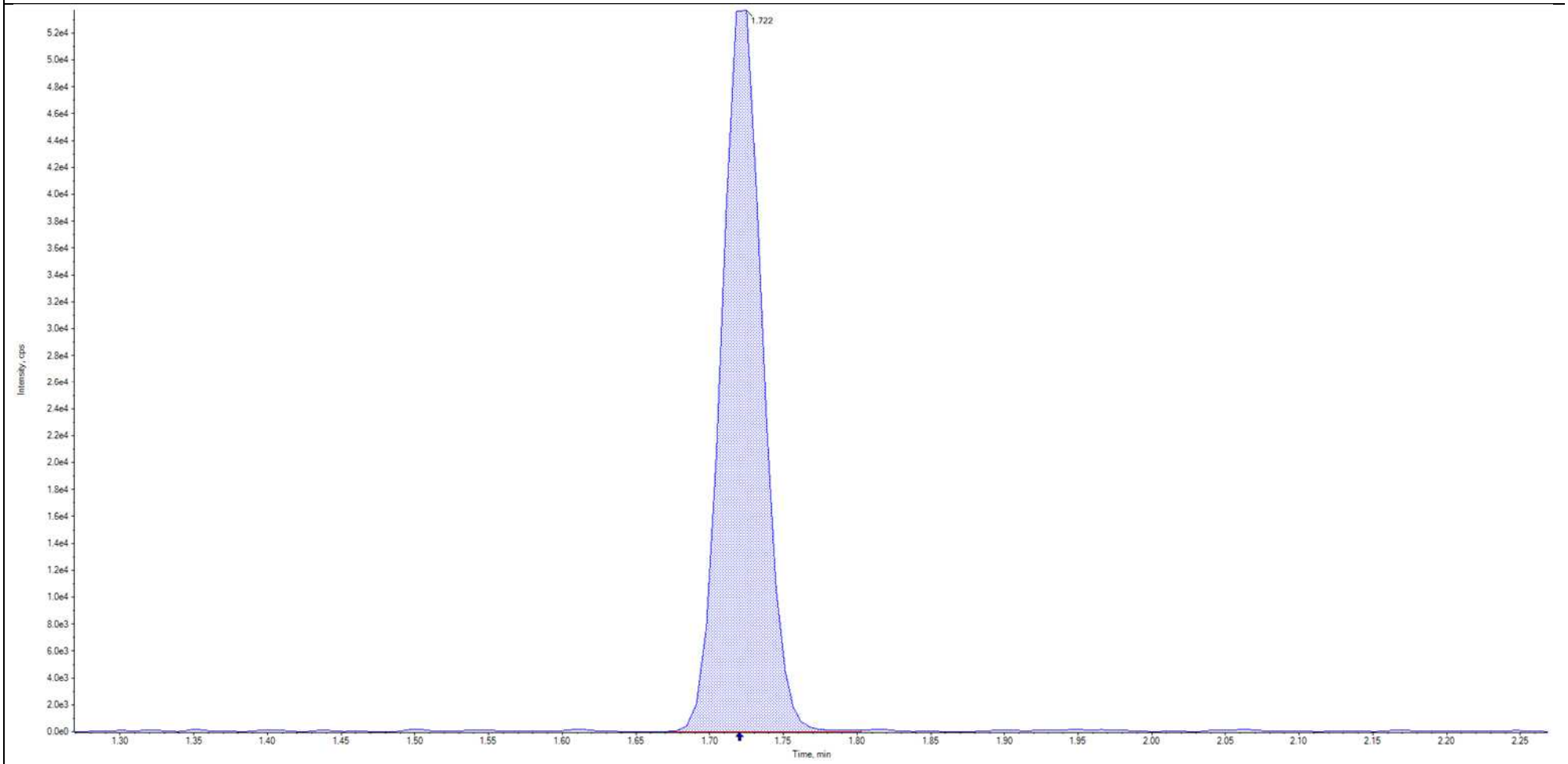


13C8-PFOS
Sample: IA1633STD-50



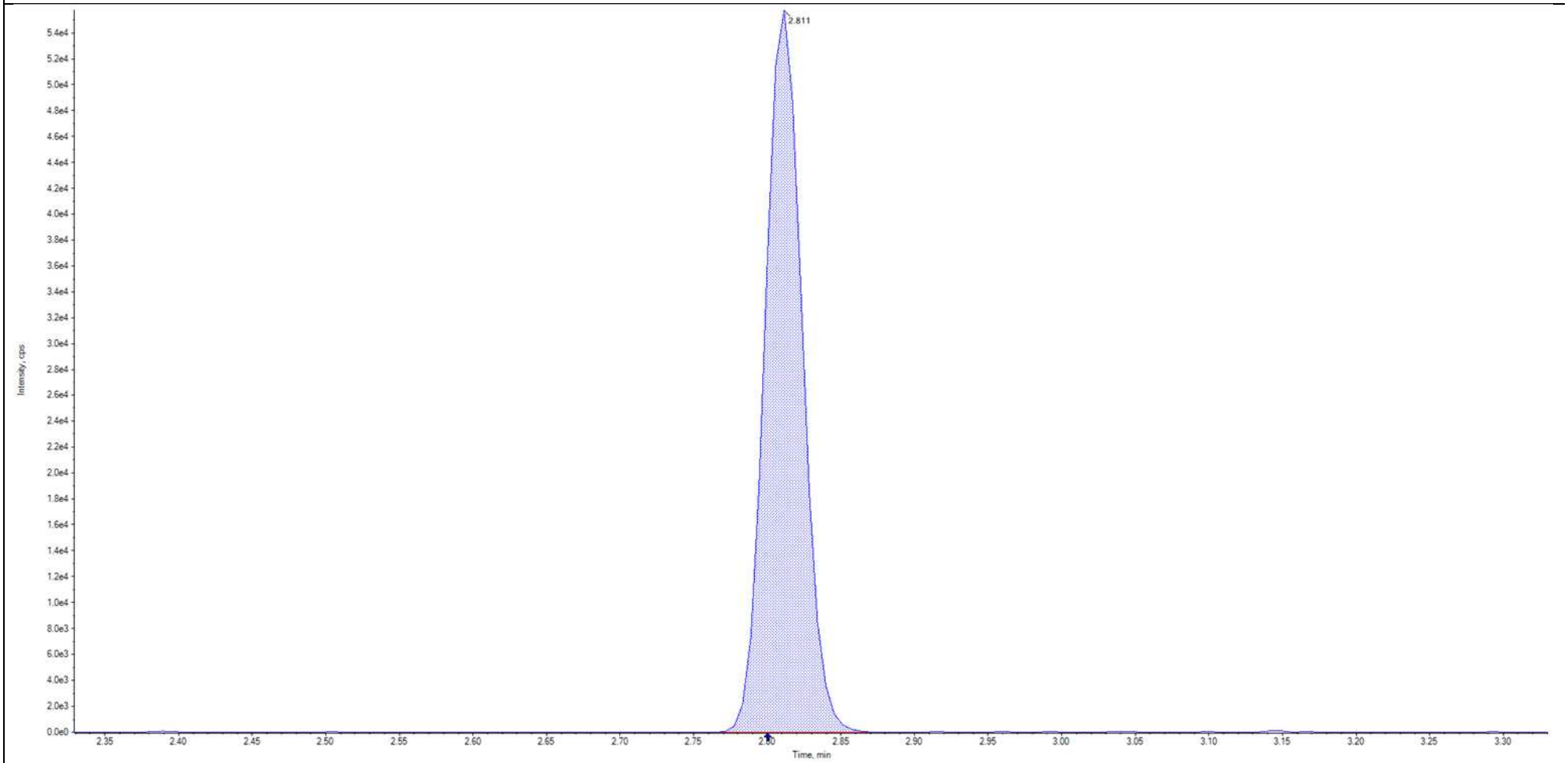
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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13C2-4:2FTS
Sample: IA1633STD-50

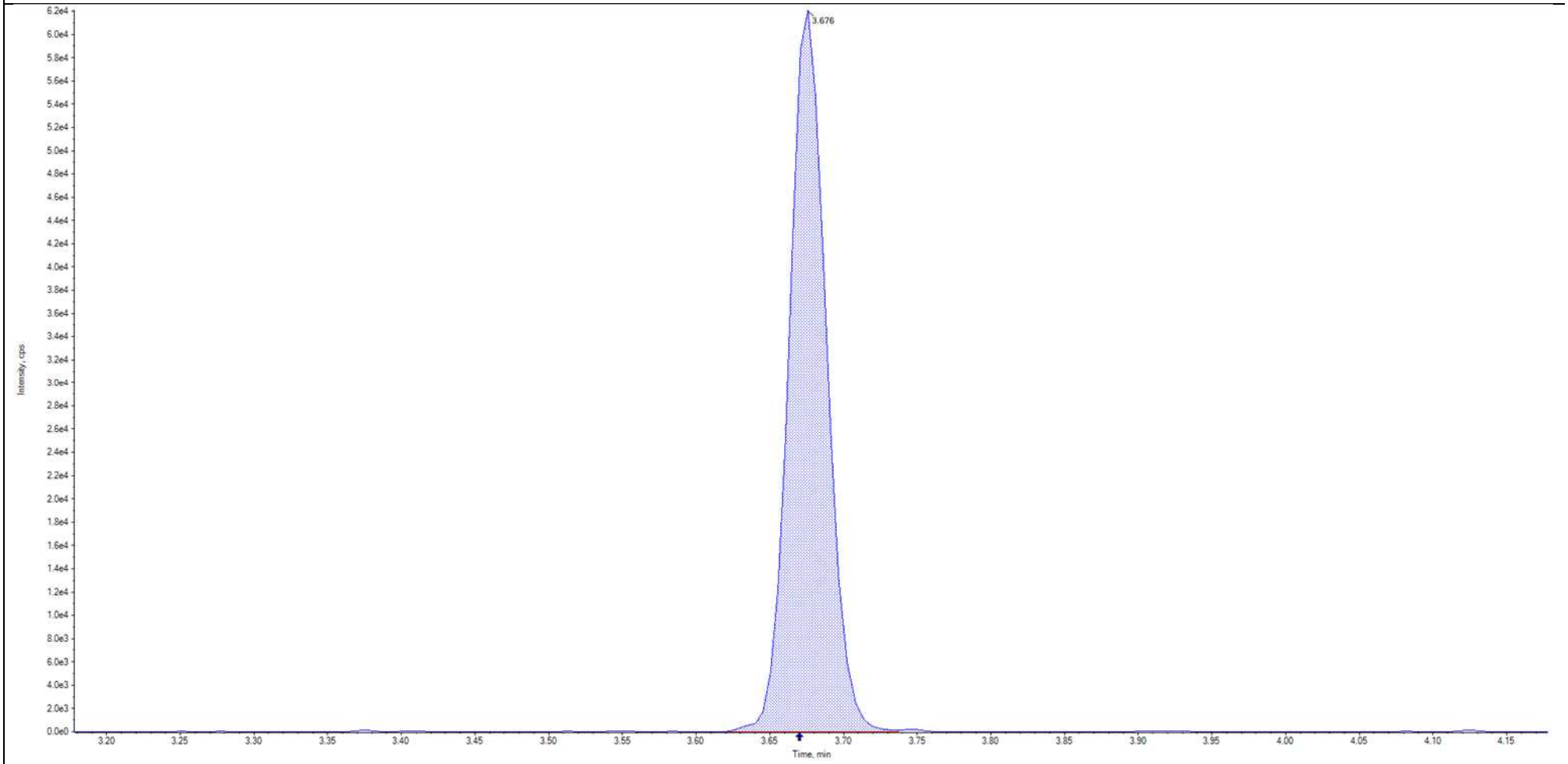


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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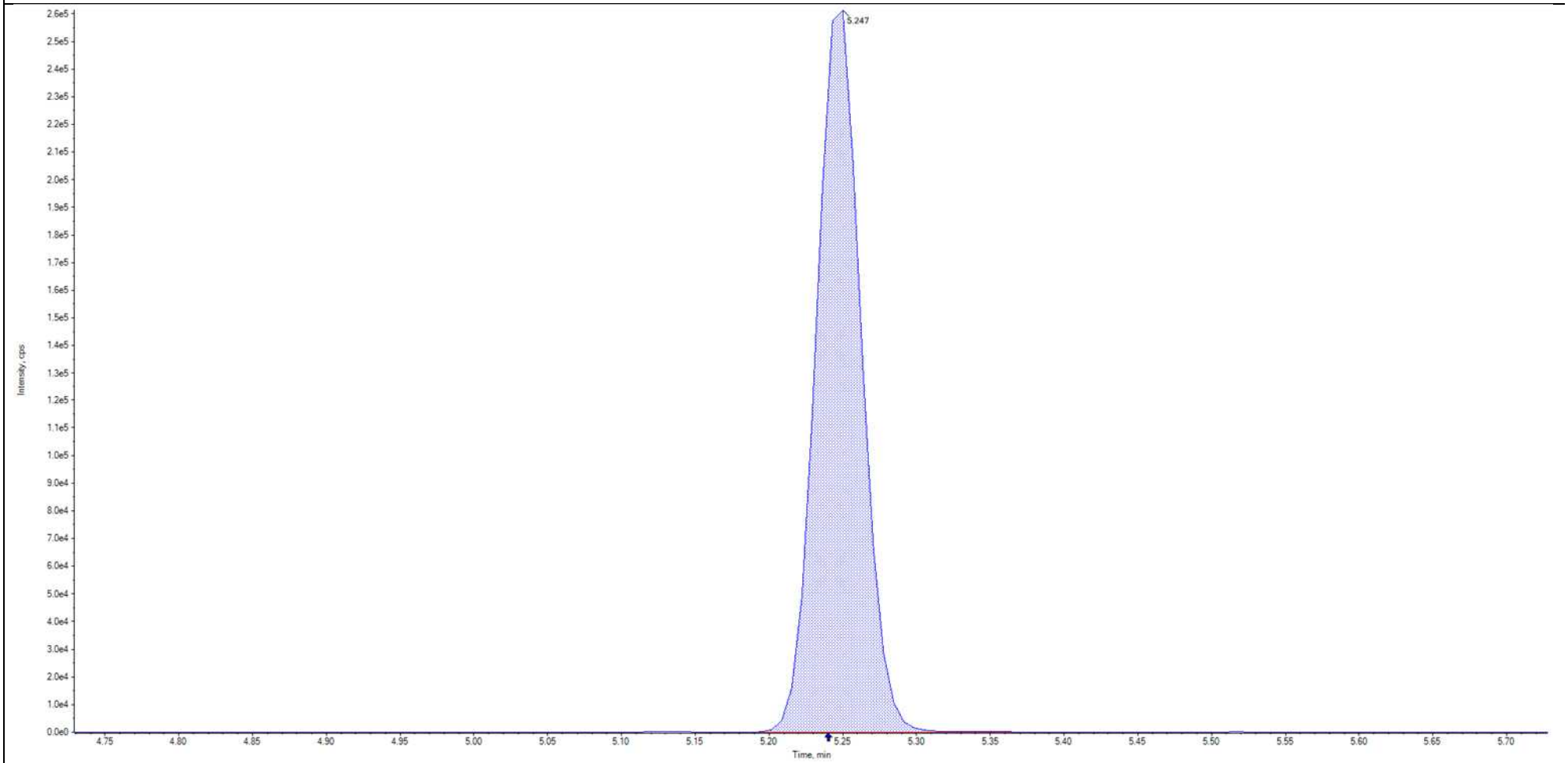
13C2-6:2FTS
Sample: IA1633STD-50



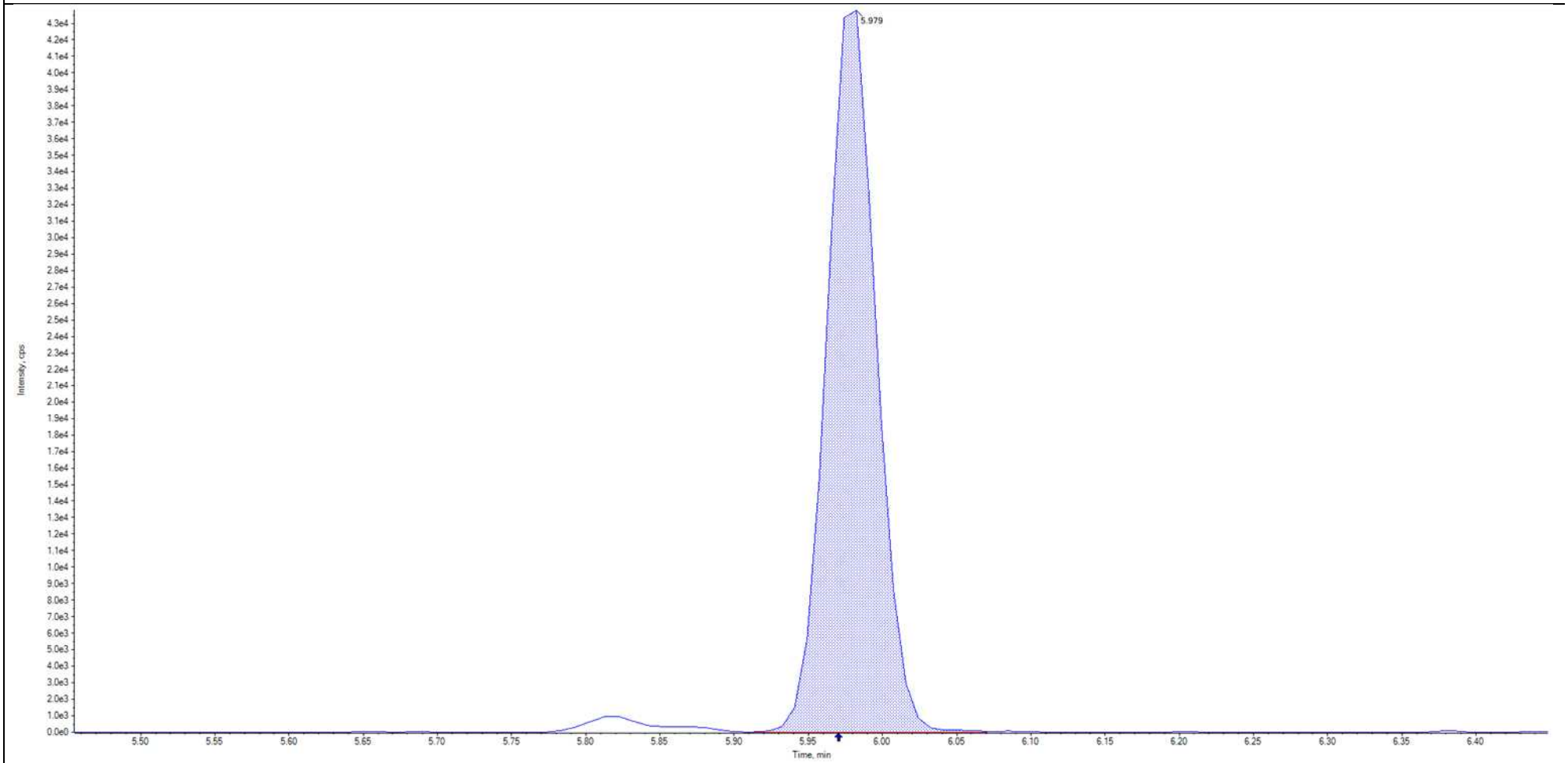
13C2-8:2FTS
Sample: IA1633STD-50



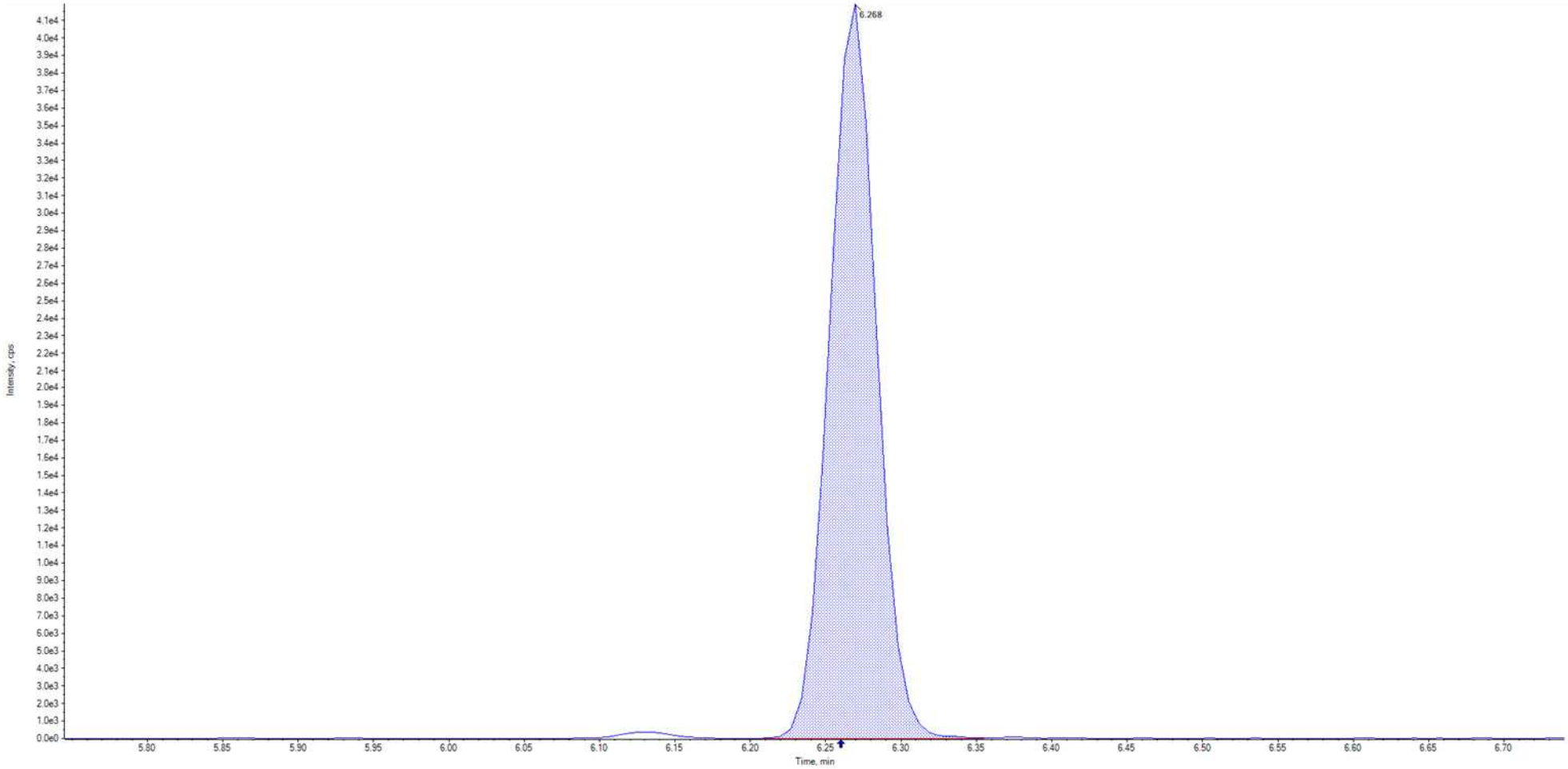
13C8-PFOSA
Sample: IA1633STD-50



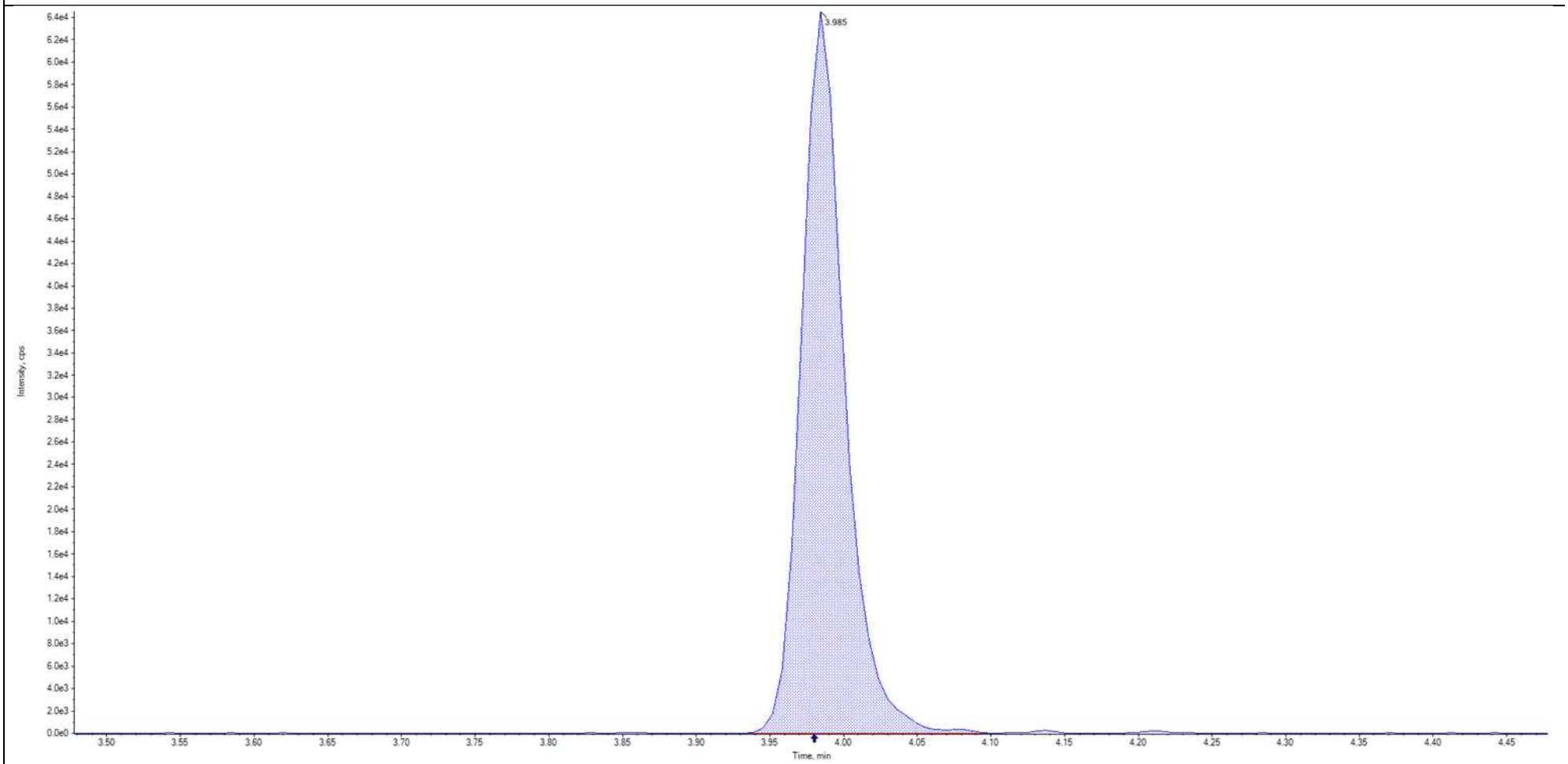
d3-NMeFOSA
Sample: IA1633STD-50



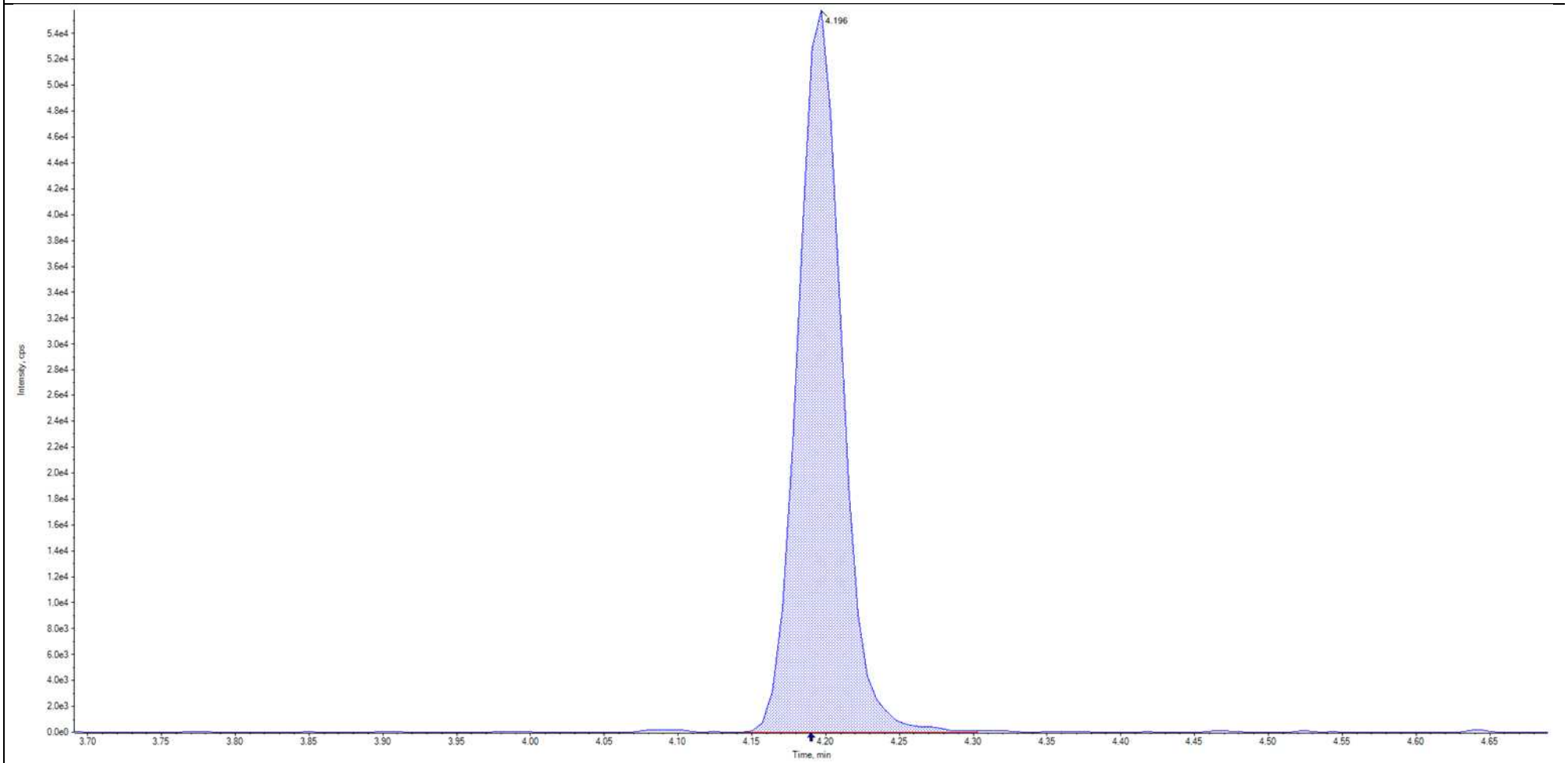
d5-NEtFOSA
Sample: IA1633STD-50



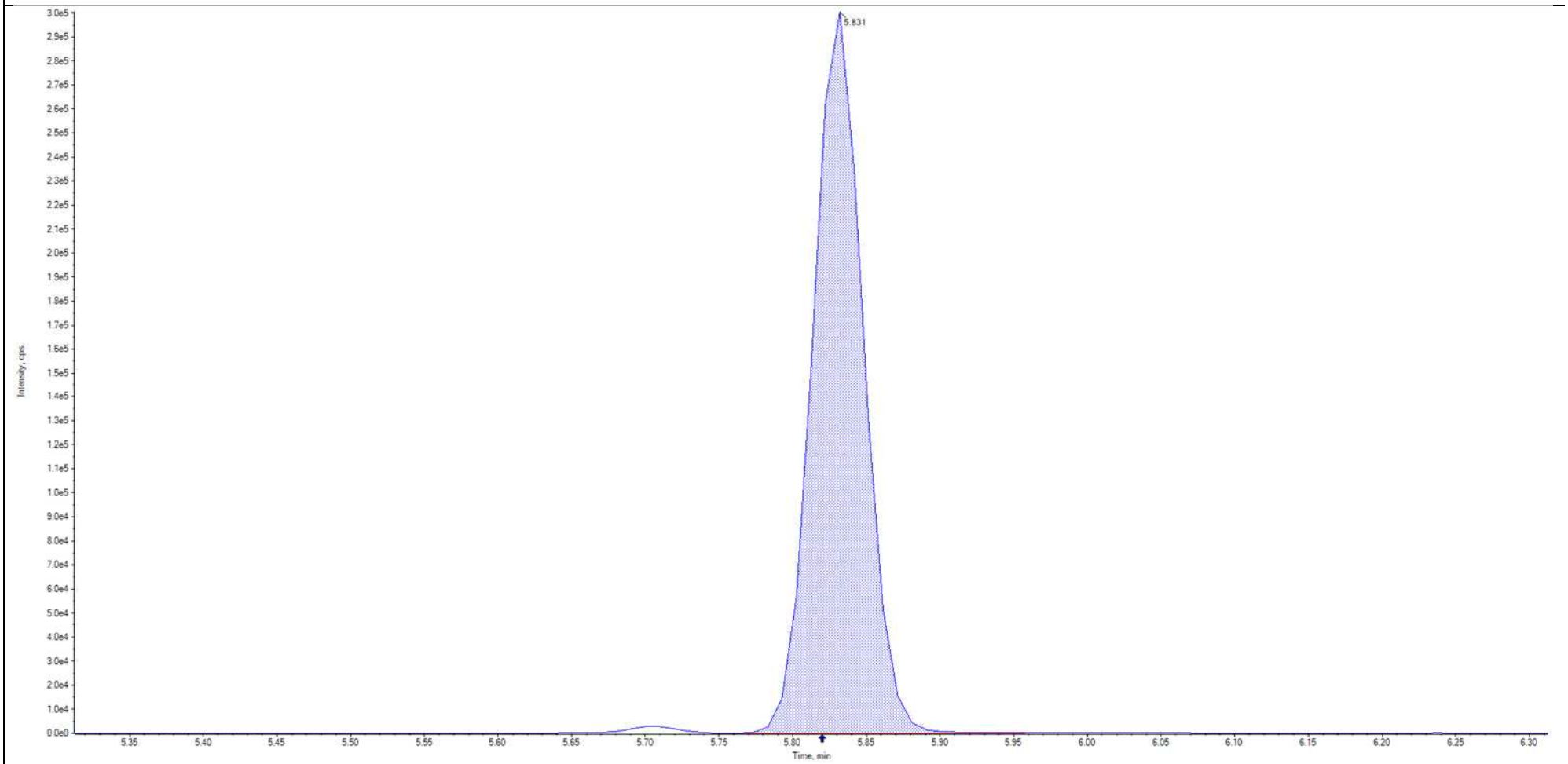
d3-NMeFOSAA
Sample: IA1633STD-50



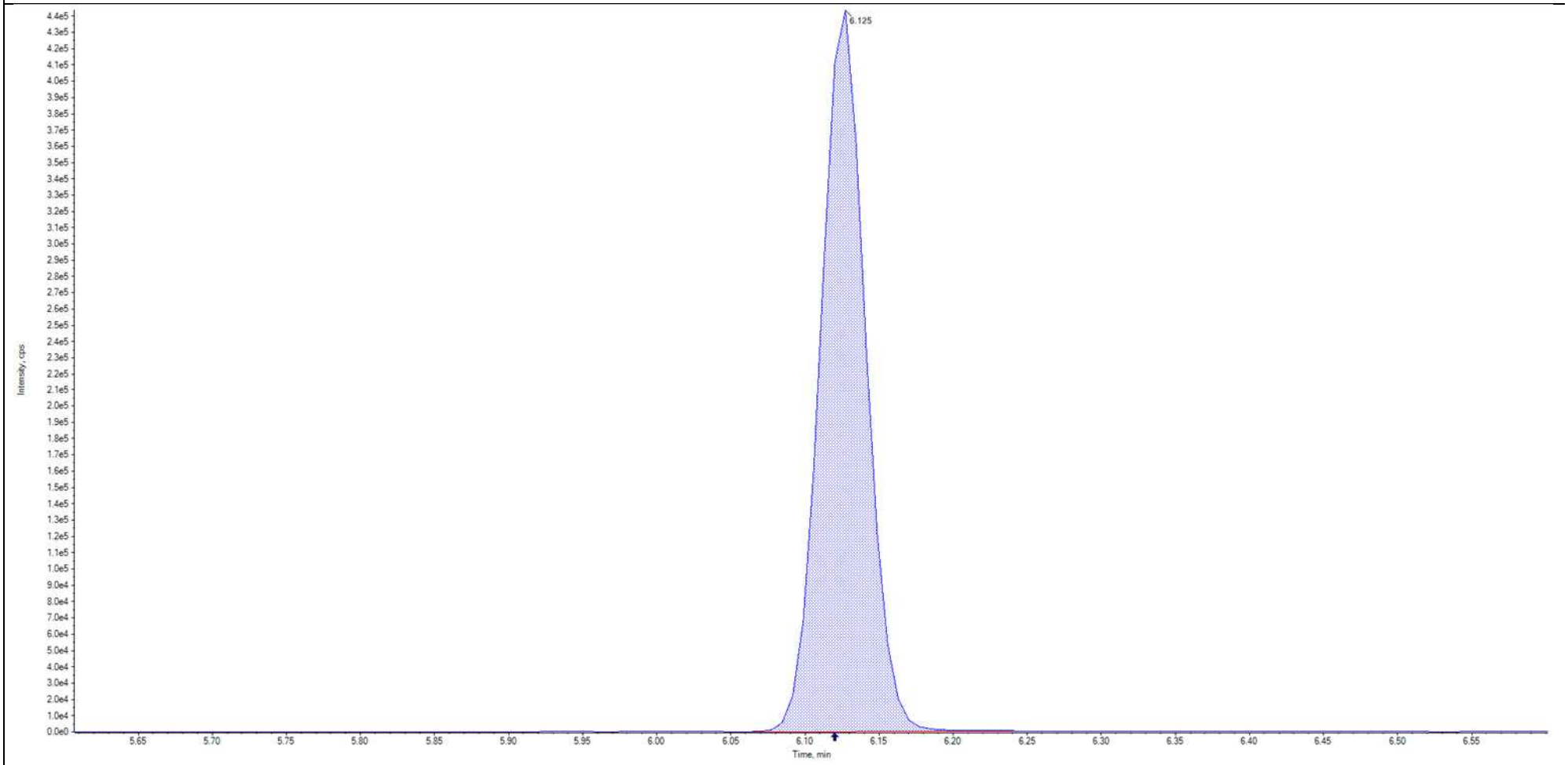
d5-NEtFOSAA
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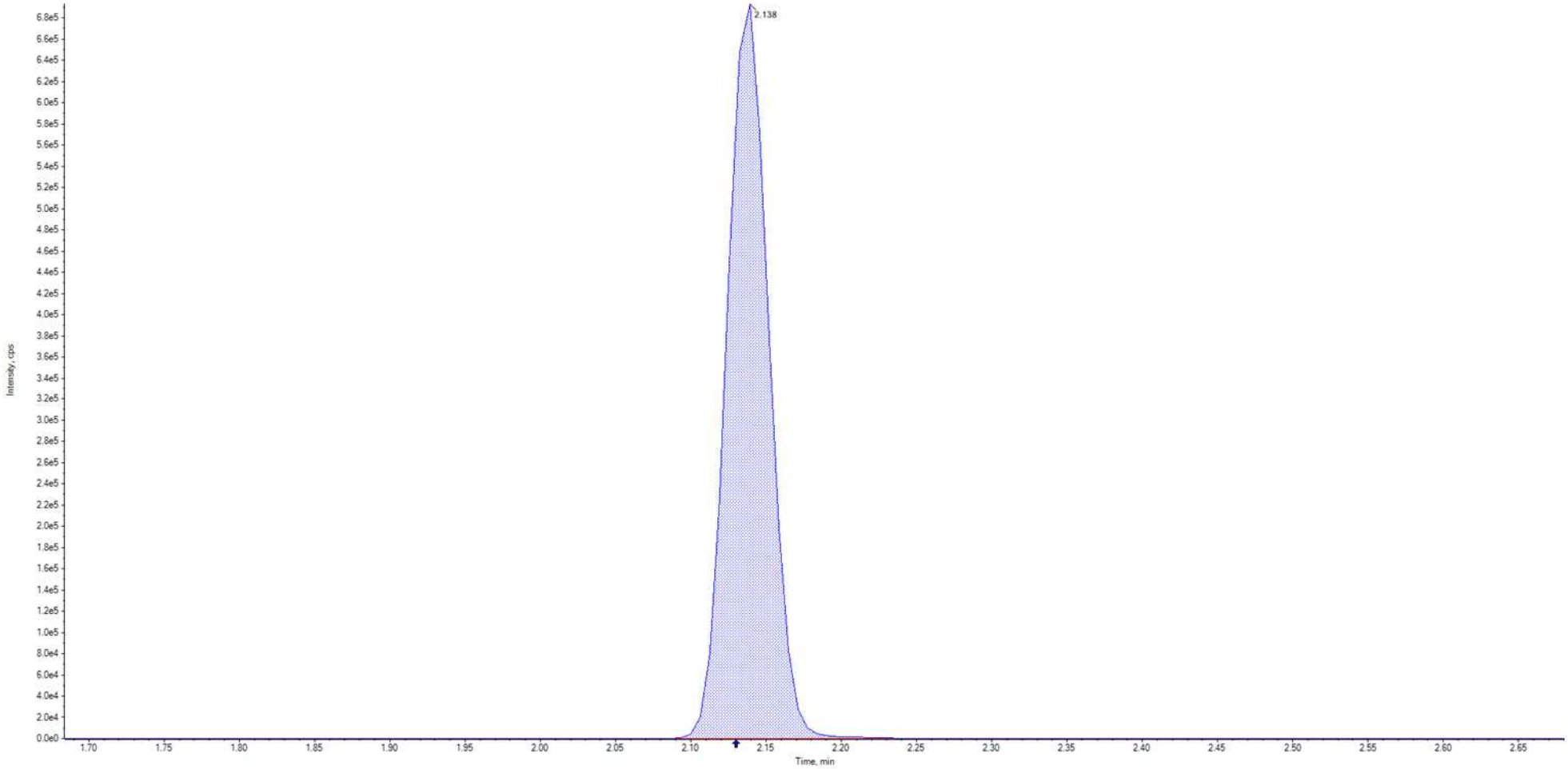
d7-NMeFOSE
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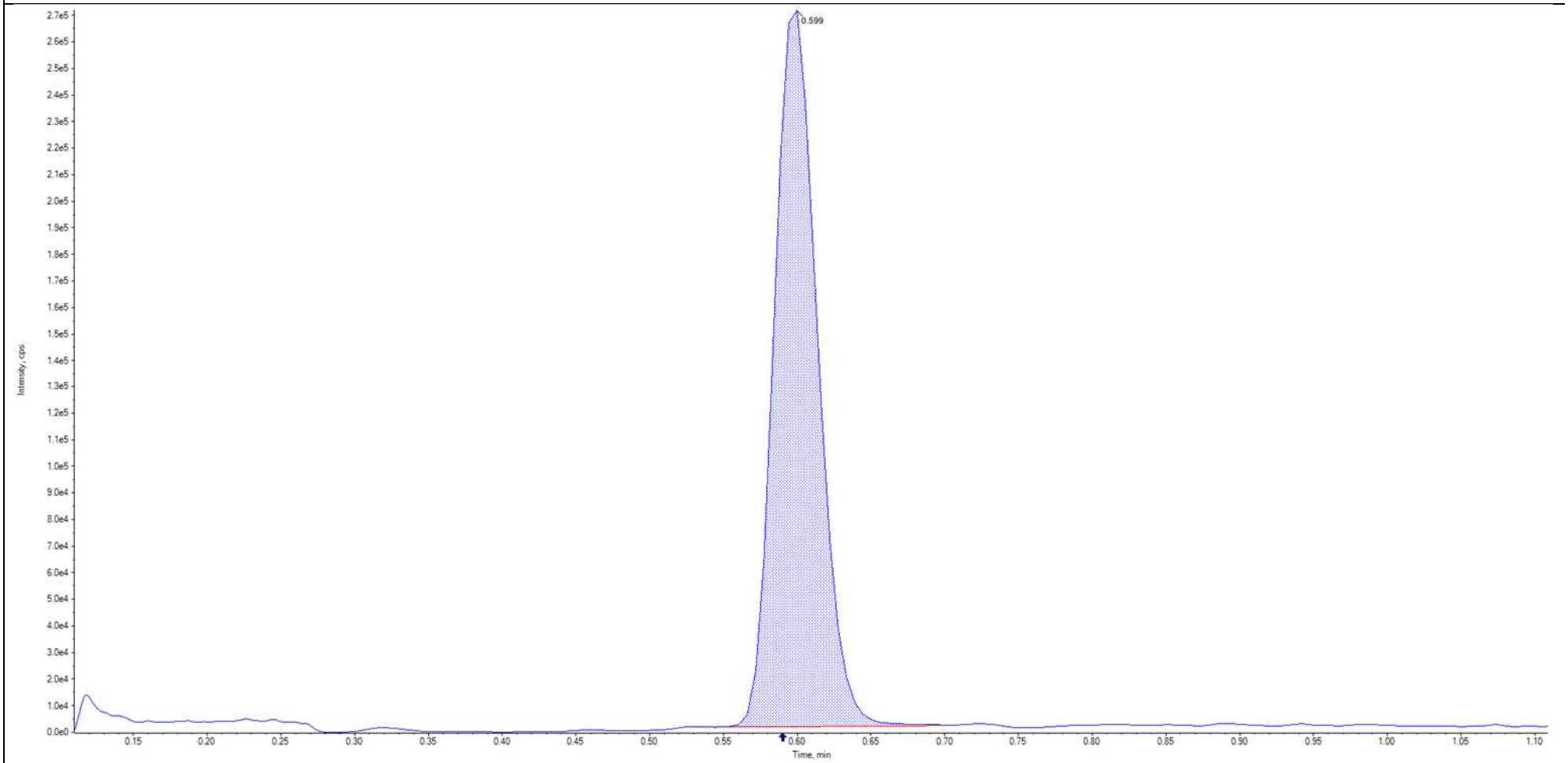
d9-NEtFOSE
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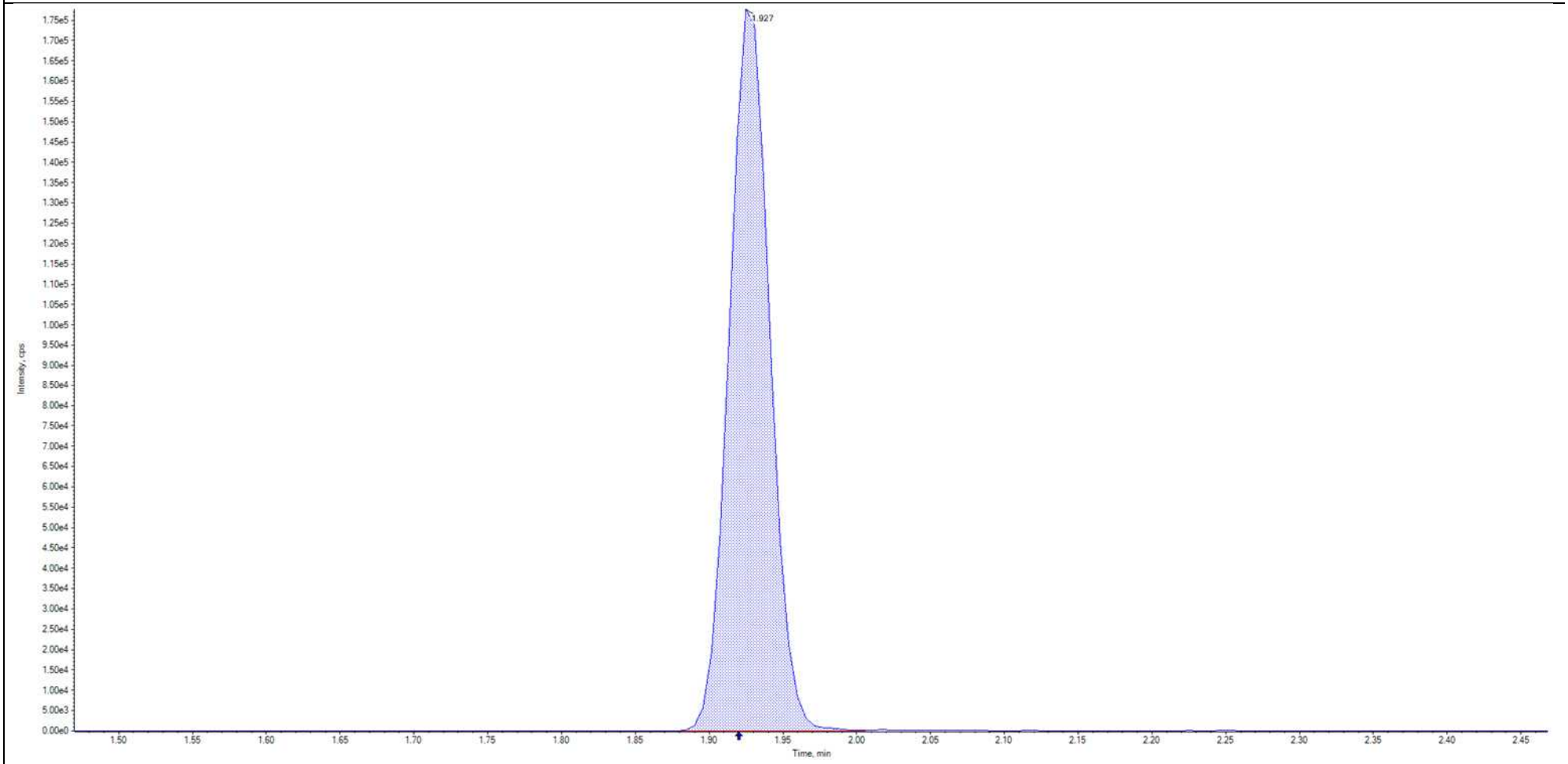
13C3-HFPO-DA
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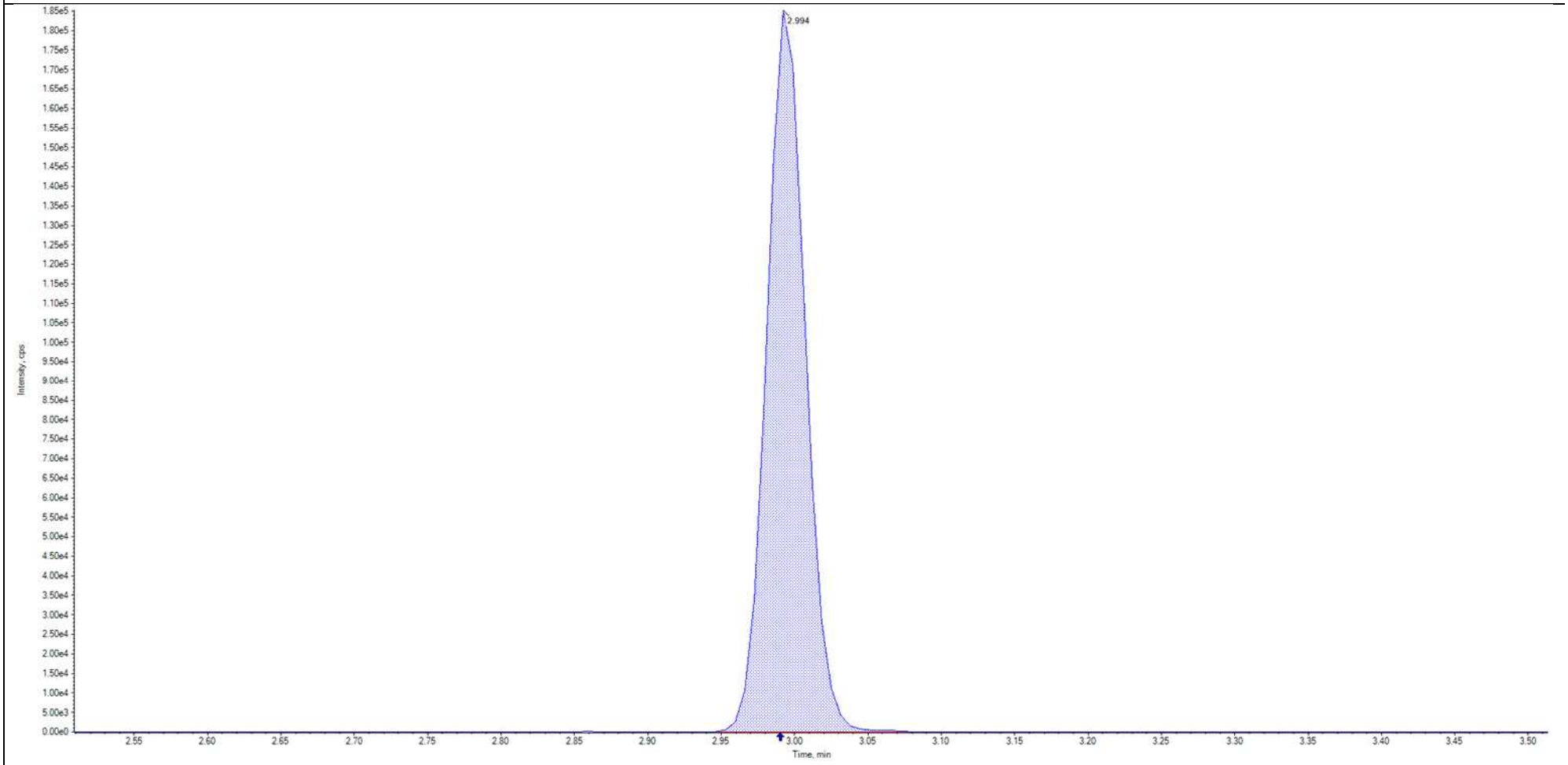
13C3-PFBA
Sample: IA1633STD-50



13C2-PFHxA
Sample: IA1633STD-50

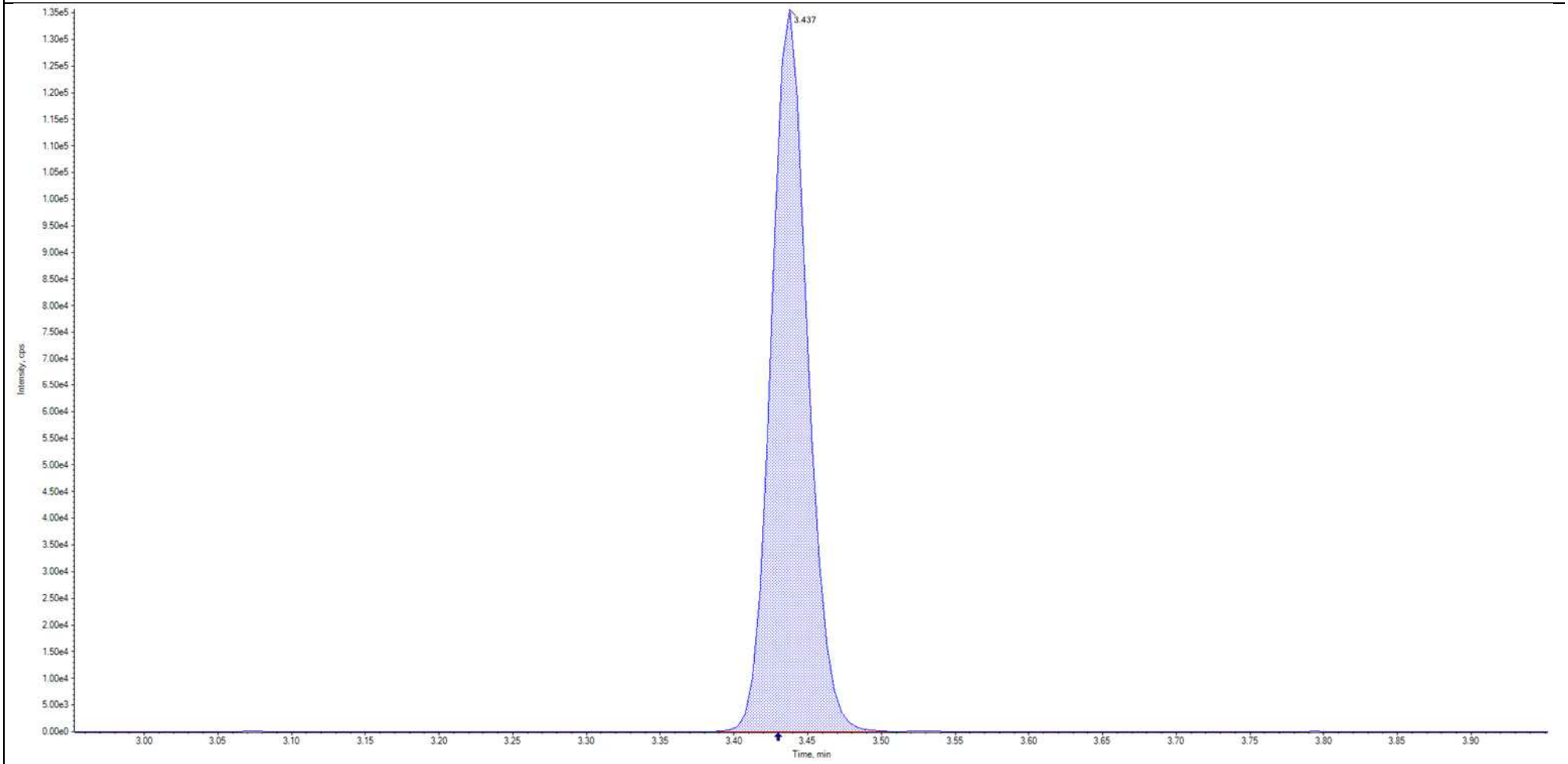


13C4-PFOA
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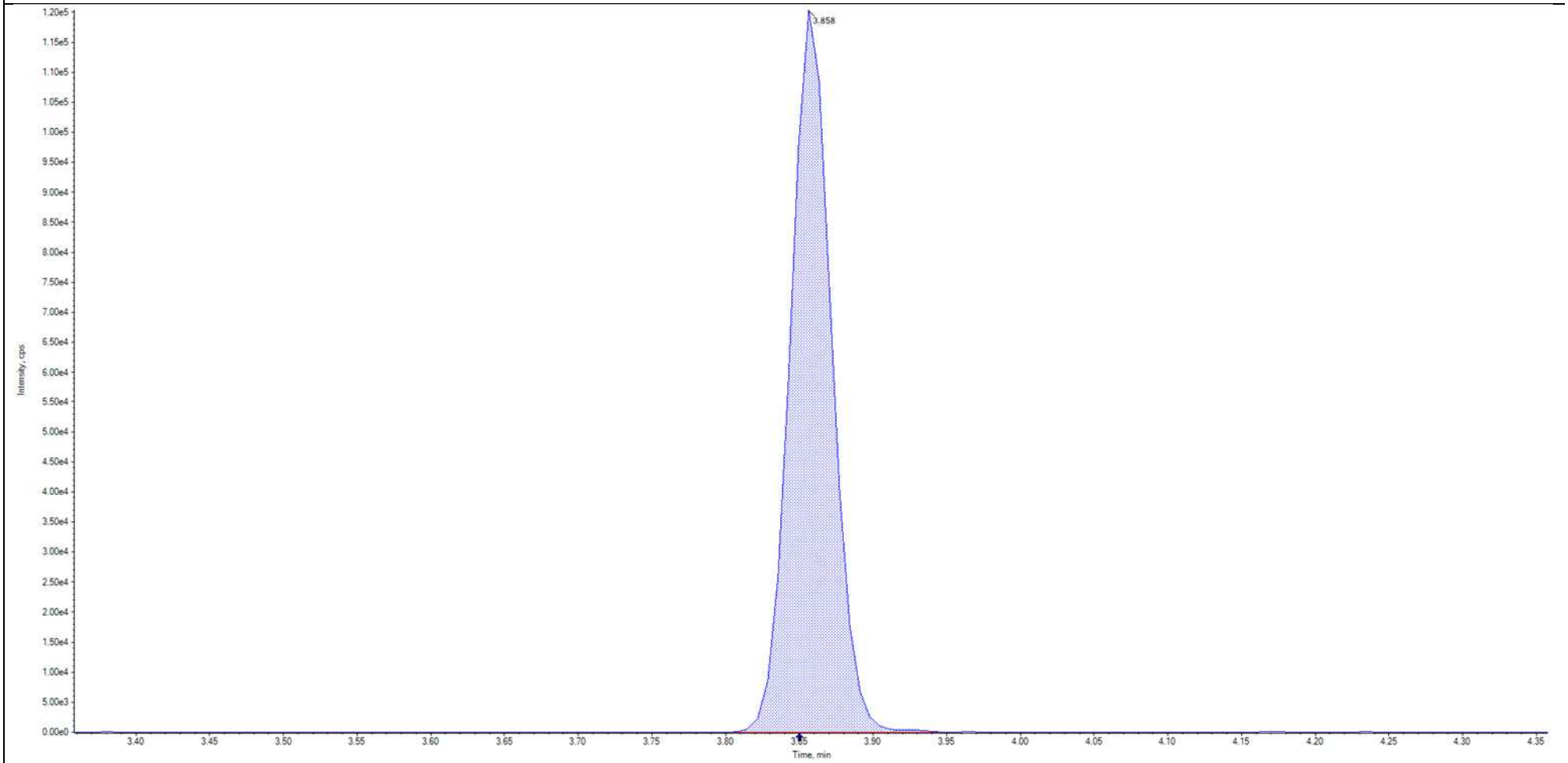


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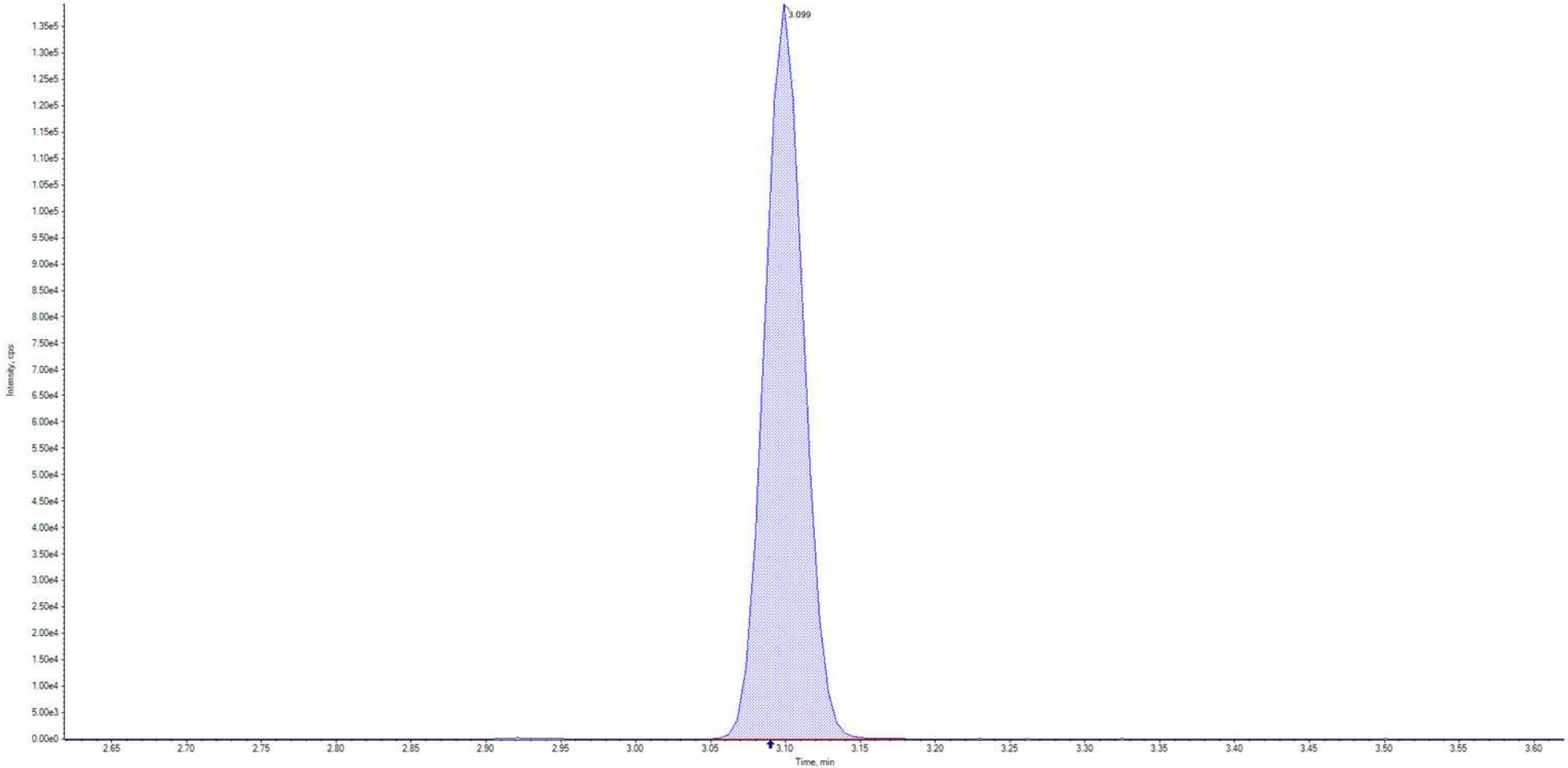
13C5-PFNA
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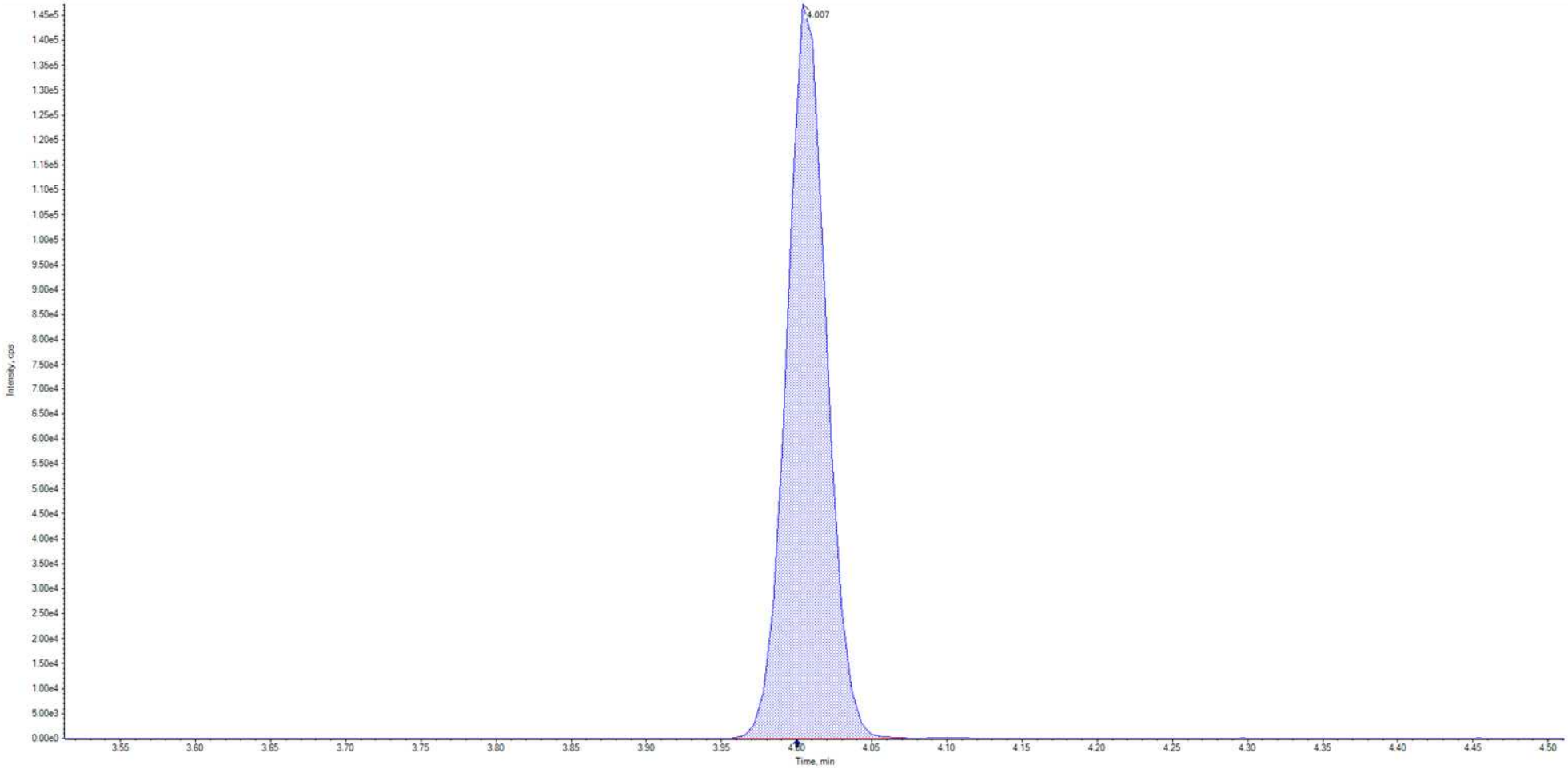
13C2-PFDA
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18O2-PFHxS
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13C4-PFOS
Sample: IA1633STD-50



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User: LCMS09:JW

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.60	213.0 / 169.0	29592587		269.999	N/A	N/A	N/A	108.0
2	PFPeA	2706-90-3	1.19	263.0 / 219.0	16309147		135.028	0.007	N/A	N/A	108.0
3	PFPeA_2	2706-90-3	1.19	263.0 / 68.9	114132		134.727	0.007	N/A	N/A	107.8
4	PFHxA	307-24-4	1.93	313.0 / 269.0	9738902		56.977	0.086	0.081	Pass	91.2
5	PFHxA_2	307-24-4	1.93	313.0 / 119.0	838718		57.713	0.086	0.081	Pass	92.3
6	PFHpA	375-85-9	2.50	363.1 / 319.0	11695516		63.173	0.395	0.373	Pass	101.1
7	PFHpA_2	375-85-9	2.50	363.1 / 169.0	4622672		63.244	0.395	0.373	Pass	101.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	2.99	413.1 / 369.1	12214696	M5	66.203	0.434	0.424	Pass	105.9
9	PFOA_2	335-67-1	2.98	413.1 / 169.0	5305375	M5	67.936	0.434	0.424	Pass	108.7
10	PFNA	375-95-1	3.44	462.8 / 418.9	8836404	M5	66.367	0.505	0.493	Pass	106.2
11	PFNA_2	375-95-1	3.44	462.8 / 219.0	4462467	M5	68.833	0.505	0.493	Pass	110.1
12	PFDA	335-76-2	3.86	513.1 / 469.1	11610738		64.733	0.184	0.188	Pass	103.6
13	PFDA_2	335-76-2	3.86	513.1 / 219.0	2132822		64.583	0.184	0.188	Pass	103.3
14	PFUnA	2058-94-8	4.26	563.1 / 519.1	12375537		67.627	0.149	0.146	Pass	108.2
15	PFUnA_2	2058-94-8	4.26	563.1 / 269.0	1839084		69.925	0.149	0.146	Pass	111.9
16	PFDoA	307-55-1	4.65	613.1 / 569.1	14057412		60.792	0.141	0.142	Pass	97.3
17	PFDoA_2	307-55-1	4.65	613.1 / 319.0	1977028		62.037	0.141	0.142	Pass	99.3
18	PFTrDA	72629-94-8	5.03	663.1 / 619.1	12552333		61.790	0.160	0.152	Pass	98.9
19	PFTrDA_2	72629-94-8	5.03	663.1 / 169.0	2008309		64.372	0.160	0.152	Pass	103.0
20	PFTeDA	376-06-7	5.40	713.1 / 669.1	11389632		62.294	0.156	0.154	Pass	99.7
21	PFTeDA_2	376-06-7	5.40	713.1 / 169.0	1777095		59.531	0.156	0.154	Pass	95.3
22	PFBS	375-73-5	1.92	299.1 / 80.1	7957403		60.419	0.377	0.374	Pass	108.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.92	299.1 / 99.1	2998562		65.291	0.377	0.374	Pass	111.0
24	PFPeS	2706-91-4	2.56	349.1 / 80.1	8382252		60.984	0.324	0.314	Pass	103.7
25	PFPeS_2	2706-91-4	2.57	349.1 / 99.1	2717726		62.969	0.324	0.314	Pass	107.1
26	PFHxS	355-46-4	3.10	399.1 / 80.1	7822638	M5	62.317	0.288	0.306	Pass	109.3
27	PFHxS_2	355-46-4	3.10	399.1 / 99.1	2254191		62.016	0.288	0.306	Pass	108.8
28	PFHpS	375-92-8	3.57	449.1 / 80.1	7818754		62.558	0.298	0.316	Pass	105.1
29	PFHpS_2	375-92-8	3.57	449.1 / 99.1	2328908		60.897	0.298	0.316	Pass	102.4
30	PFOS	1763-23-1	4.01	499.1 / 80.1	9063220	M5	59.616	0.252	0.244	Pass	102.8
31	PFOS_2	1763-23-1	4.01	499.1 / 99.1	2287243		59.882	0.252	0.244	Pass	103.2
32	PFNS	68259-12-1	4.42	549.1 / 80.1	6654625		64.290	0.286	0.294	Pass	107.2
33	PFNS_2	68259-12-1	4.42	549.1 / 99.1	1902597		64.303	0.286	0.294	Pass	107.2
34	PFDS	335-77-3	4.81	599.1 / 80.1	6425873		63.191	0.283	0.290	Pass	104.8
35	PFDS_2	335-77-3	4.81	599.1 / 99.1	1816684		63.264	0.283	0.290	Pass	104.9
36	PFDoS	79780-39-5	5.56	699.2 / 80.1	5954134		64.265	0.257	0.256	Pass	106.2
37	PFDoS_2	79780-39-5	5.56	699.2 / 99.1	1531292		64.123	0.257	0.256	Pass	106.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.72	327.1 / 307.1	8244658		226.547	0.654	0.650	Pass	96.8
39	4:2FTS_2	757124-72-4	1.72	327.1 / 81.1	5389296		229.442	0.654	0.650	Pass	98.1
40	6:2FTS	27619-97-2	2.81	427.2 / 407.2	7131070		207.429	0.665	0.620	Pass	87.2
41	6:2FTS_2	27619-97-2	2.81	427.2 / 81.1	4744143		215.304	0.665	0.620	Pass	90.5
42	8:2FTS	39108-34-4	N/A	527.2 / 507.2	N/A		N/A	N/A	0.676	N/A	N/A
43	8:2FTS_2	39108-34-4	N/A	527.2 / 81.1	N/A		N/A	N/A	0.676	N/A	N/A
44	PFOSA	754-91-6	5.24	498.1 / 78.1	11605870	M5	66.620	0.024	0.026	Pass	106.6
45	PFOSA_2	754-91-6	5.24	498.1 / 478.0	278614	M5	61.909	0.024	0.026	Pass	99.1
46	NMeFOSA	31506-32-8	5.98	512.2 / 219.0	3004999	M5	66.481	1.381	1.377	Pass	106.4
47	NMeFOSA_2	31506-32-8	5.94	512.2 / 169.0	4149531	M5	66.068	1.381	1.377	Pass	105.7
48	NEtFOSA	4151-50-2	6.28	526.2 / 219.0	2927446		63.867	1.261	1.292	Pass	102.2
49	NEtFOSA_2	4151-50-2	6.24	526.2 / 169.0	3690313		64.526	1.261	1.292	Pass	103.2
50	NMeFOSAA	2355-31-9	3.98	570.2 / 419.1	1555100		65.527	0.697	0.697	Pass	104.8
51	NMeFOSAA_2	2355-31-9	3.98	570.2 / 483.0	1083954		63.573	0.697	0.697	Pass	101.7
52	NEtFOSAA	2991-50-6	4.20	584.2 / 419.1	1569102		63.940	0.601	0.557	Pass	102.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.20	584.2 / 526.2	942559	M5	69.681	0.601	0.557	Pass	111.5
54	NMeFOSE	24448-09-7	5.85	616.1 / 58.9	43701785	M5	678.698	N/A	N/A	N/A	108.6
55	NEtFOSE	1691-99-2	6.14	630.0 / 58.9	59054522	M5	667.355	N/A	N/A	N/A	106.8
56	HFPO-DA	13252-13-6	2.14	285.0 / 169.0	34456419		248.491	0.510	0.501	Pass	99.4
57	HFPO-DA_2	13252-13-6	2.13	285.0 / 184.9	17570619		240.335	0.510	0.501	Pass	96.1
58	ADONA	919005-14-4	2.68	376.9 / 251.0	58871745		215.753	0.641	0.691	Pass	91.3
59	ADONA_2	919005-14-4	2.68	376.9 / 84.8	37713370		208.616	0.641	0.691	Pass	88.3
60	9Cl-PF3ONS	756426-58-1	4.29	530.8 / 351.1	51374727		198.306	0.337	0.332	Pass	85.1
61	9Cl-PF3ONS_2	756426-58-1	4.29	532.8 / 353.0	17302220		200.927	0.337	0.332	Pass	86.2
62	11Cl-PF3OUdS	763051-92-9	5.08	630.9 / 451.0	43809540		199.975	0.329	0.322	Pass	84.7
63	11Cl-PF3OUdS_2	763051-92-9	5.08	632.9 / 452.9	14408249		204.895	0.329	0.322	Pass	86.8
64	3:3FTCA	356-02-5	N/A	241.1 / 177.1	N/A		N/A	N/A	1.010	N/A	N/A
65	3:3FTCA_2	356-02-5	N/A	241.1 / 117.0	N/A		N/A	N/A	1.010	N/A	N/A
66	5:3FTCA	914637-49-3	3.04	341.1 / 237.1	60070838		1405.496	0.996	1.017	Pass	90.0
67	5:3FTCA_2	914637-49-3	3.04	341.1 / 217.0	59831272		1389.363	0.996	1.017	Pass	88.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.06	441.1 / 316.9	57706533		1596.892	1.164	1.343	Pass	102.2
69	7:3FTCA_2	812-70-4	4.06	441.1 / 337.1	67156791		1405.864	1.164	1.343	Pass	90.0
70	PFEESA	113507-82-7	2.23	315.1 / 135.0	48272608		108.678	0.082	0.081	Pass	97.0
71	PFEESA_2	113507-82-7	2.23	315.1 / 82.9	3939343		107.829	0.082	0.081	Pass	96.3
72	PFMPA	377-73-1	0.76	229.0 / 85.0	17466472		152.354	N/A	N/A	N/A	121.9
73	PFMBA	863090-89-5	1.45	279.0 / 85.0	18988827		137.357	N/A	N/A	N/A	109.9
74	NFDHA	151772-58-6	1.85	295.0 / 201.0	14641873		125.933	0.668	0.681	Pass	100.8
75	NFDHA_2	151772-58-6	1.85	295.0 / 84.9	9779817		118.849	0.668	0.681	Pass	95.1
76	TDCA	516-50-7	2.66	499.1 / 124.1	1703275		9.925	5.602	5.680	Pass	99.3
77	TDCA_2	516-50-7	2.66	499.1 / 79.9	9541237		9.868	5.602	5.680	Pass	98.7
78	13C2D4-4:2FTS	Surr	1.71	333.2 / 312.1	130410		5.174	N/A	N/A	N/A	103.5
79	13C2-PFOA	Surr	2.99	415.0 / 370.0	333473		2.378	N/A	N/A	N/A	95.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.60	217.0 / 172.0	1226408		9.622	NA	NA	NA	96.2

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C5-PFPeA	EIS	1.18	268.0 / 223.0	629290		4.661	NA	NA	NA	93.2
13C5-PFHxA	EIS	1.92	318.0 / 273.0	333680		2.629	NA	NA	NA	105.2
13C4-PFHpA	EIS	2.50	367.0 / 322.0	318824		2.604	NA	NA	NA	104.2
13C8-PFOA	EIS	2.99	420.8 / 376.0	539663		2.140	NA	NA	NA	85.6
13C9-PFNA	EIS	3.43	472.0 / 427.0	246823		1.199	NA	NA	NA	95.9
13C6-PFDA	EIS	3.85	519.0 / 474.0	253600		1.194	NA	NA	NA	95.5
13C7-PFUnA	EIS	4.26	570.0 / 525.0	270169		1.153	NA	NA	NA	92.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.65	615.1 / 570.0	305879		1.297	NA	NA	NA	103.8
	13C2-PFTeDA	EIS	5.40	715.1 / 670.1	201096		1.315	NA	NA	NA	105.2
	13C3-PFBS	EIS	1.92	302.1 / 80.1	288865		2.021	NA	NA	NA	86.7
	13C3-PFHxS	EIS	3.09	402.1 / 80.1	287253		2.261	NA	NA	NA	95.4
	13C8-PFOS	EIS	4.00	507.1 / 80.1	318897		2.290	NA	NA	NA	95.4
	13C2-4:2FTS	EIS	1.71	329.1 / 81.1	110895		5.260	NA	NA	NA	112.1
	13C2-6:2FTS	EIS	2.80	429.2 / 81.1	101732		5.604	NA	NA	NA	117.7
	13C2-8:2FTS	EIS	3.67	529.2 / 81.1	103408		5.627	NA	NA	NA	117.2

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.24	506.1 / 78.1	543891		2.460	NA	NA	NA	98.4
d3-NMeFOSA	EIS	5.97	515.2 / 219.0	100813		2.525	NA	NA	NA	101.0
d5-NEtFOSA	EIS	6.26	531.2 / 219.0	94057		2.591	NA	NA	NA	103.6
d3-NMeFOSAA	EIS	3.98	573.2 / 419.1	130539		4.779	NA	NA	NA	95.6
d5-NEtFOSAA	EIS	4.19	589.3 / 419.1	113185		5.185	NA	NA	NA	103.7
d7-NMeFOSE	EIS	5.82	623.2 / 58.9	710582		24.745	NA	NA	NA	99.0
d9-NEtFOSE	EIS	6.12	639.2 / 58.9	936762		24.318	NA	NA	NA	97.3

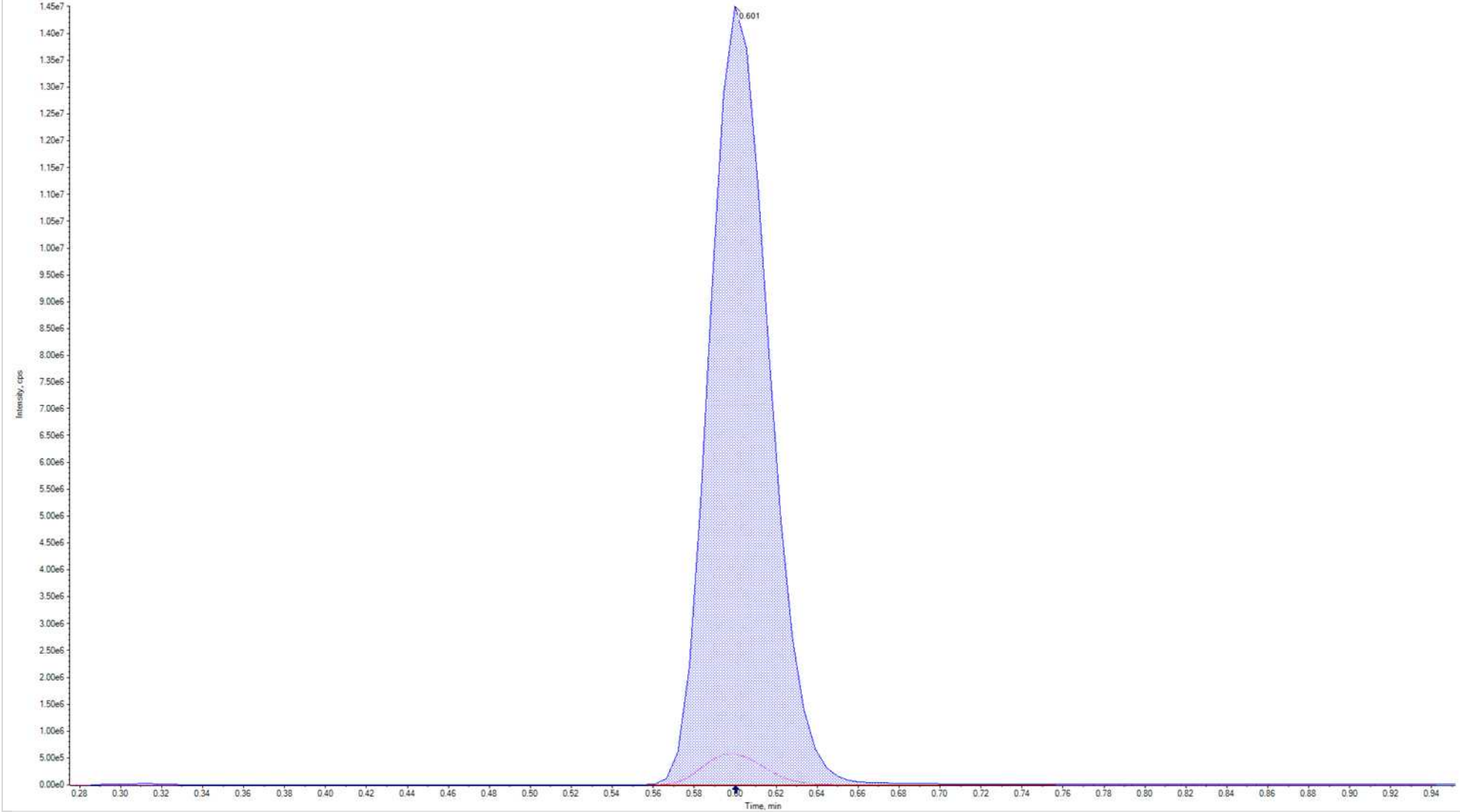
	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.13	287.0 / 169.0	1368255		10.191	NA	NA	NA	101.9
	13C3-PFBA	NIS	0.60	216.0 / 172.0	563998		3.891	NA	NA	NA	77.8
	13C2-PFHxA	NIS	1.92	315.0 / 270.0	373765		2.306	NA	NA	NA	92.2
	13C4-PFOA	NIS	2.99	417.0 / 372.0	383195		2.665	NA	NA	NA	106.6
	13C5-PFNA	NIS	3.43	468.0 / 423.0	257767		1.251	NA	NA	NA	100.1
	13C2-PFDA	NIS	3.85	515.1 / 470.1	247882		1.166	NA	NA	NA	93.3
	18O2-PFHxS	NIS	3.09	403.1 / 84.1	267211		2.270	NA	NA	NA	95.8
	13C4-PFOS	NIS	4.00	503.1 / 80.1	280158		2.330	NA	NA	NA	97.1

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

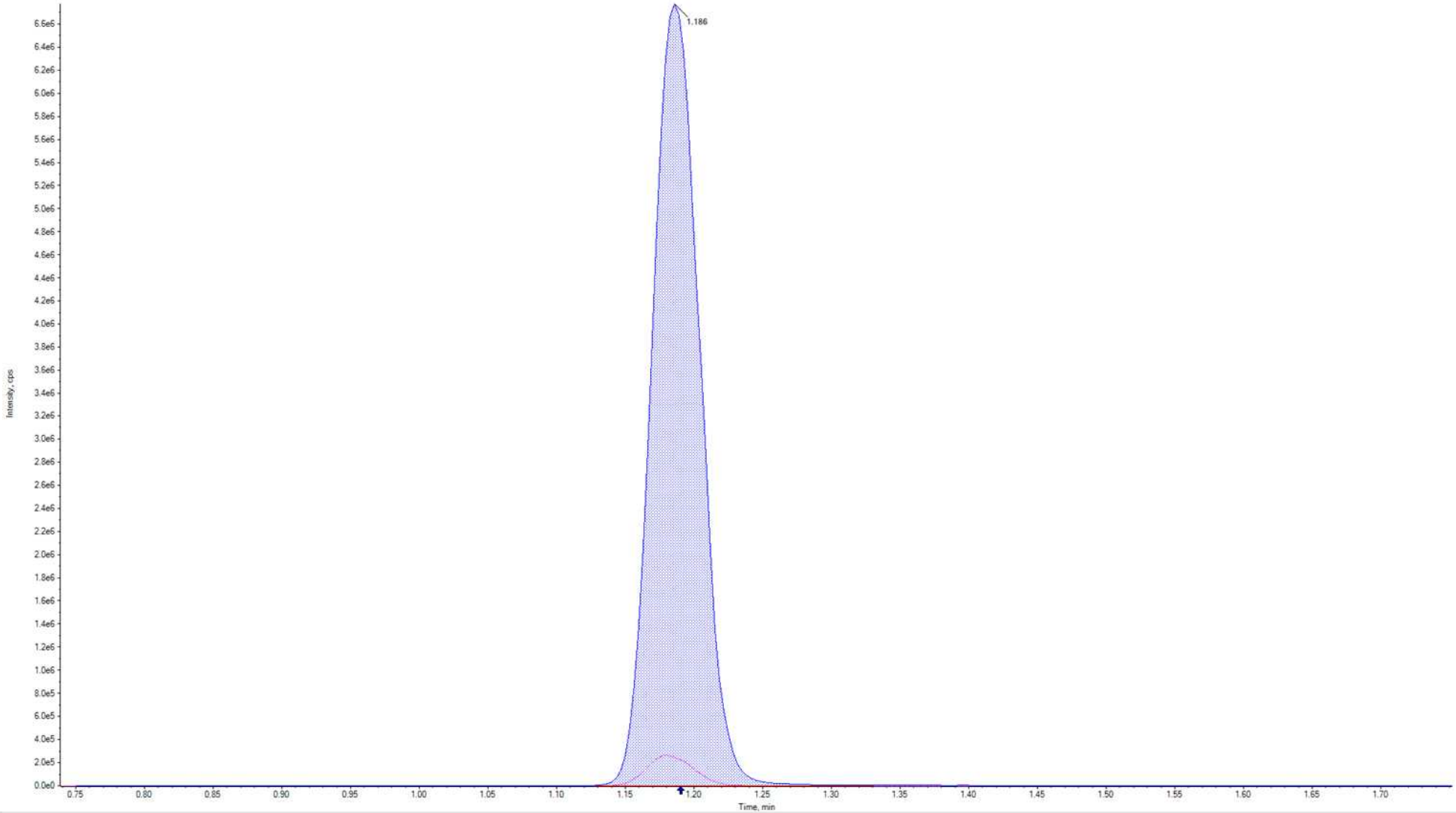
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
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PFBA
Sample: IA1633STD-62.5 S/N:5613.4 Points Across peak:42



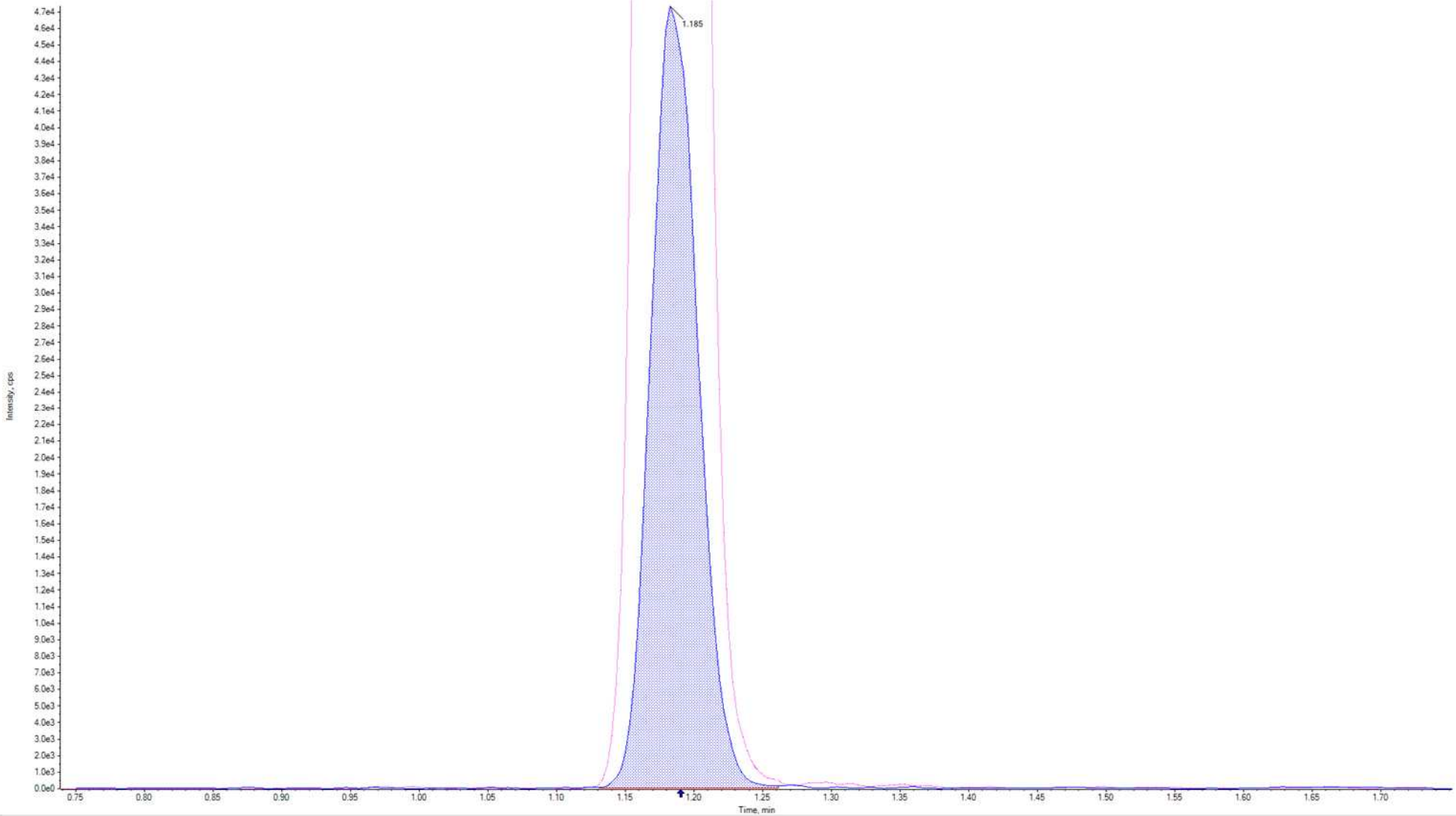
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Alpha Analytical LLC
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PFPeA
Sample: IA1633STD-62.5 S/N:17981.3 Points Across peak:65



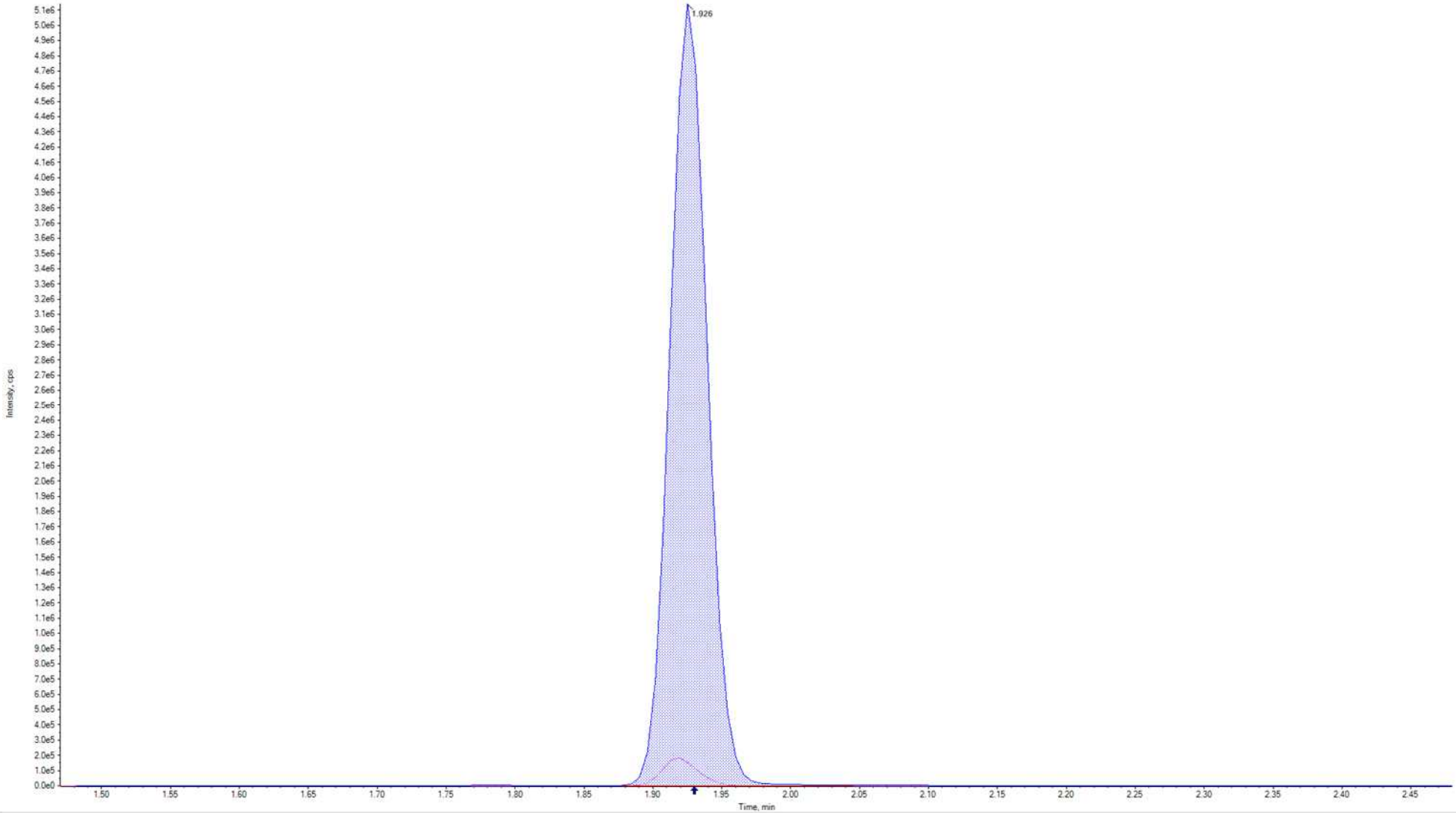
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Alpha Analytical LLC
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PFPeA_2
Sample: IA1633STD-62.5 S/N:2845.9 Points Across peak:41



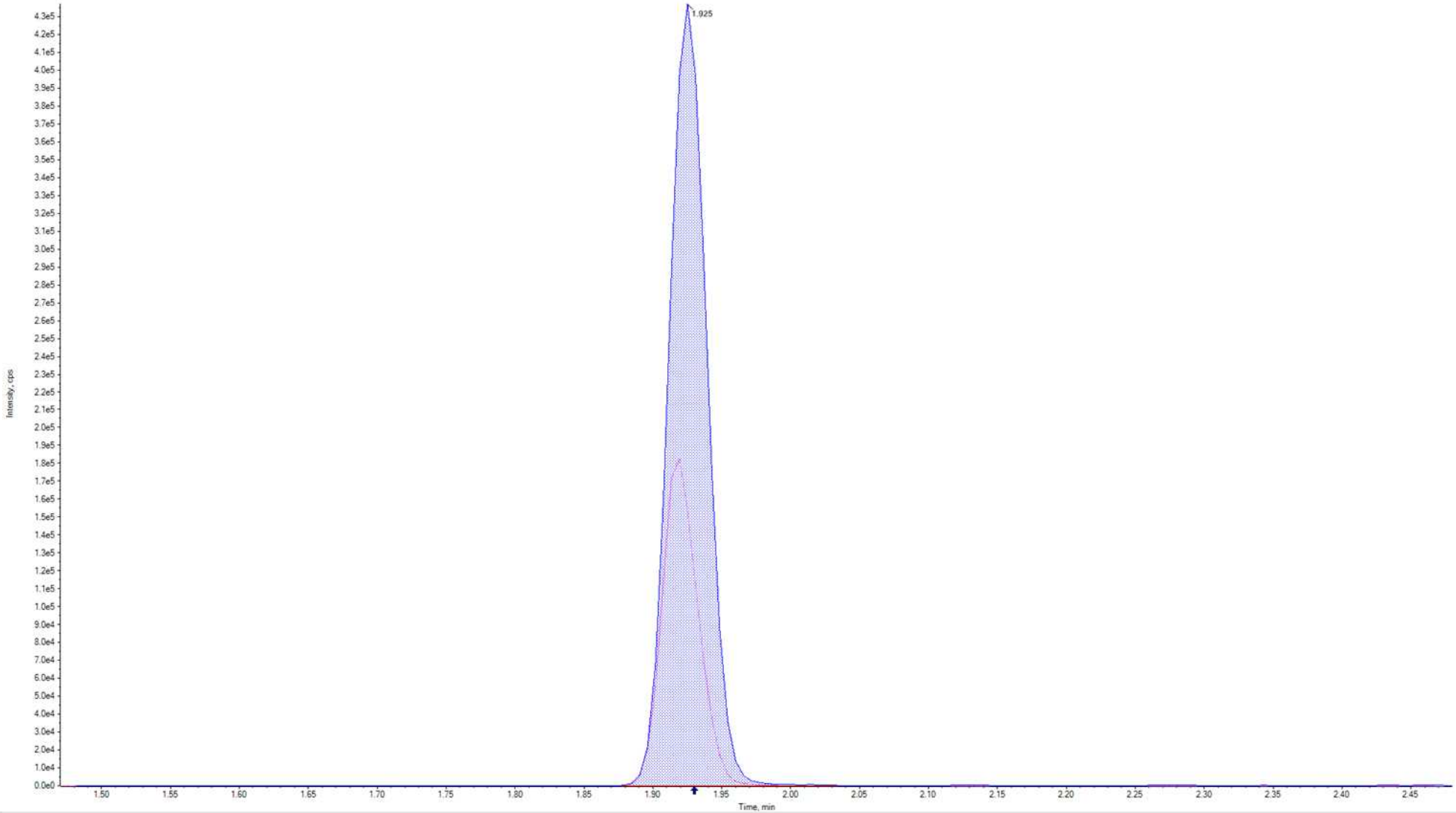
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Alpha Analytical LLC
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PFHxA
Sample: IA1633STD-62.5 S/N:10456.5 Points Across peak:33



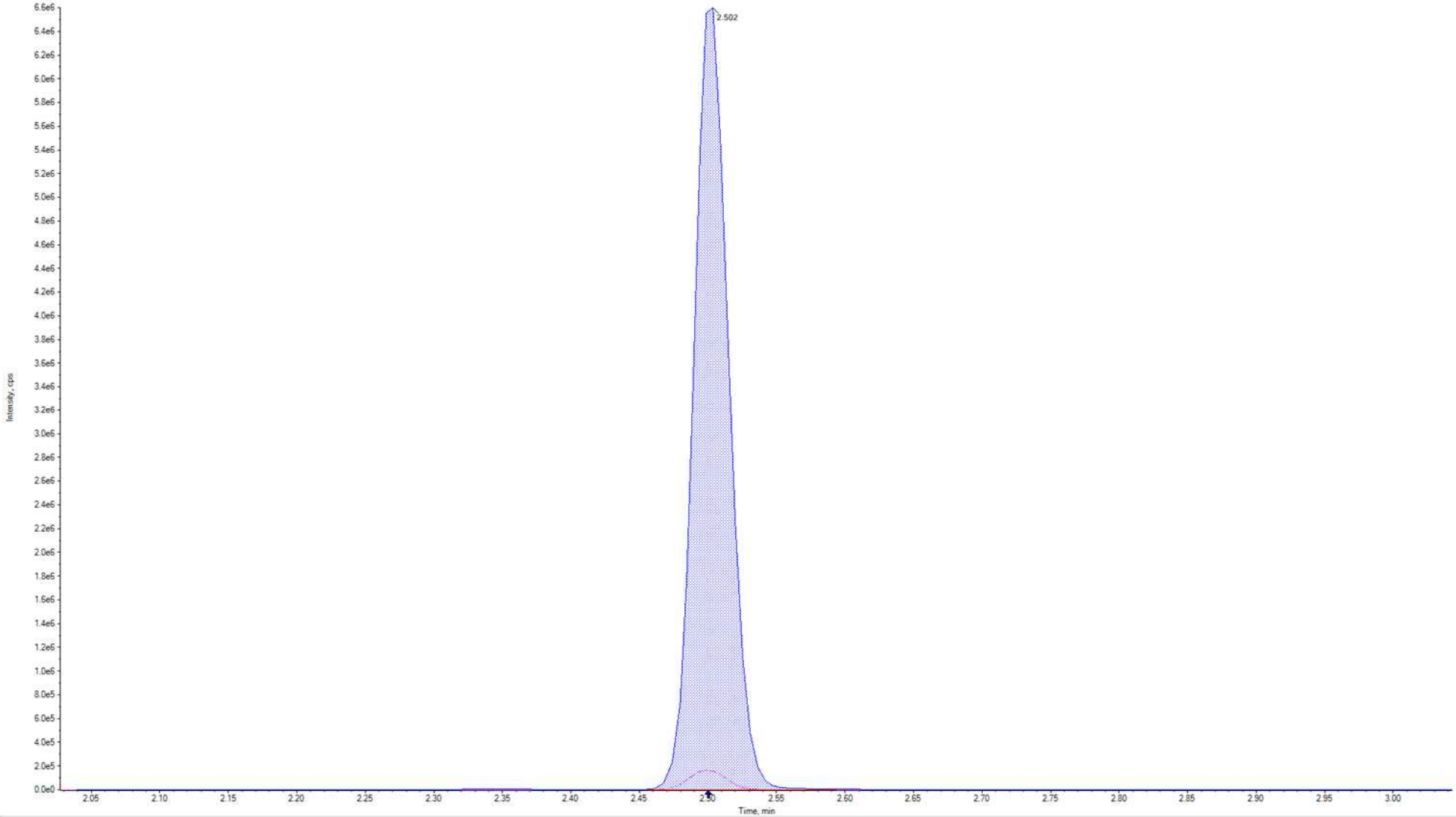
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Alpha Analytical LLC
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PFHxA_2
Sample: IA1633STD-62.5 S/N:10955.3 Points Across peak:33



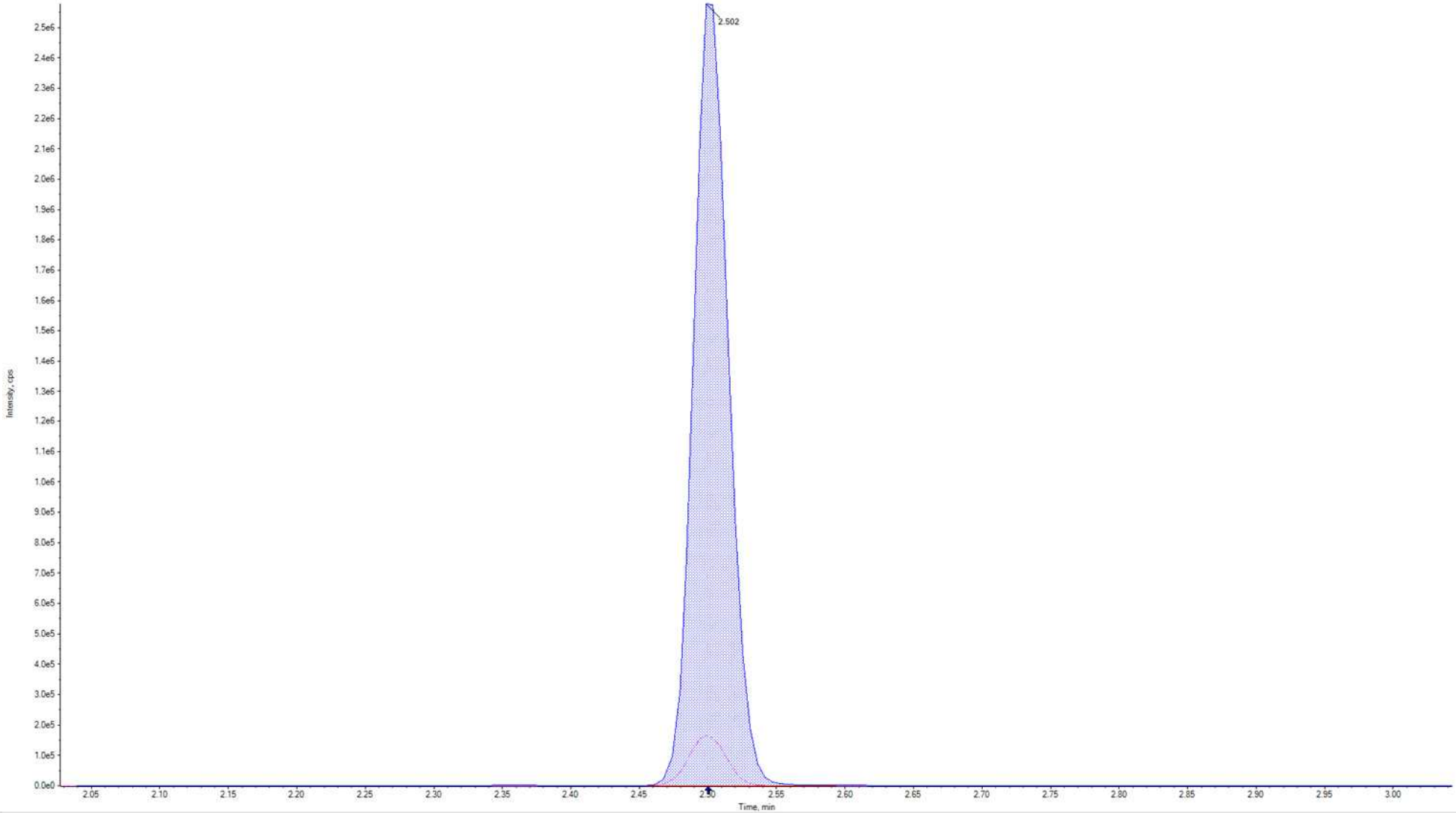
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

PFHpA
Sample: IA1633STD-62.5 S/N:14609.3 Points Across peak:33



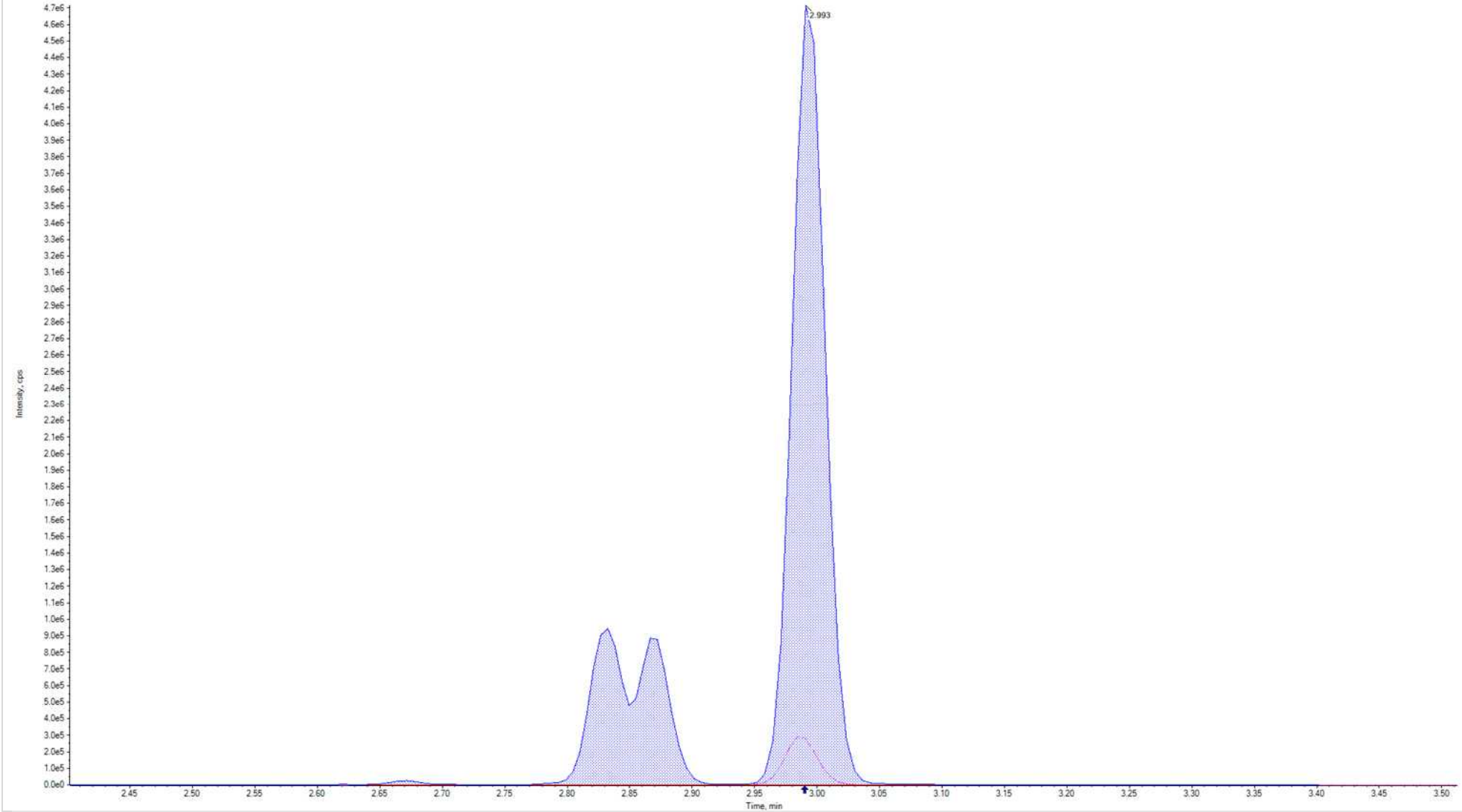
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Alpha Analytical LLC
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PFHpA_2
Sample: IA1633STD-62.5 S/N:51688.8 Points Across peak:27



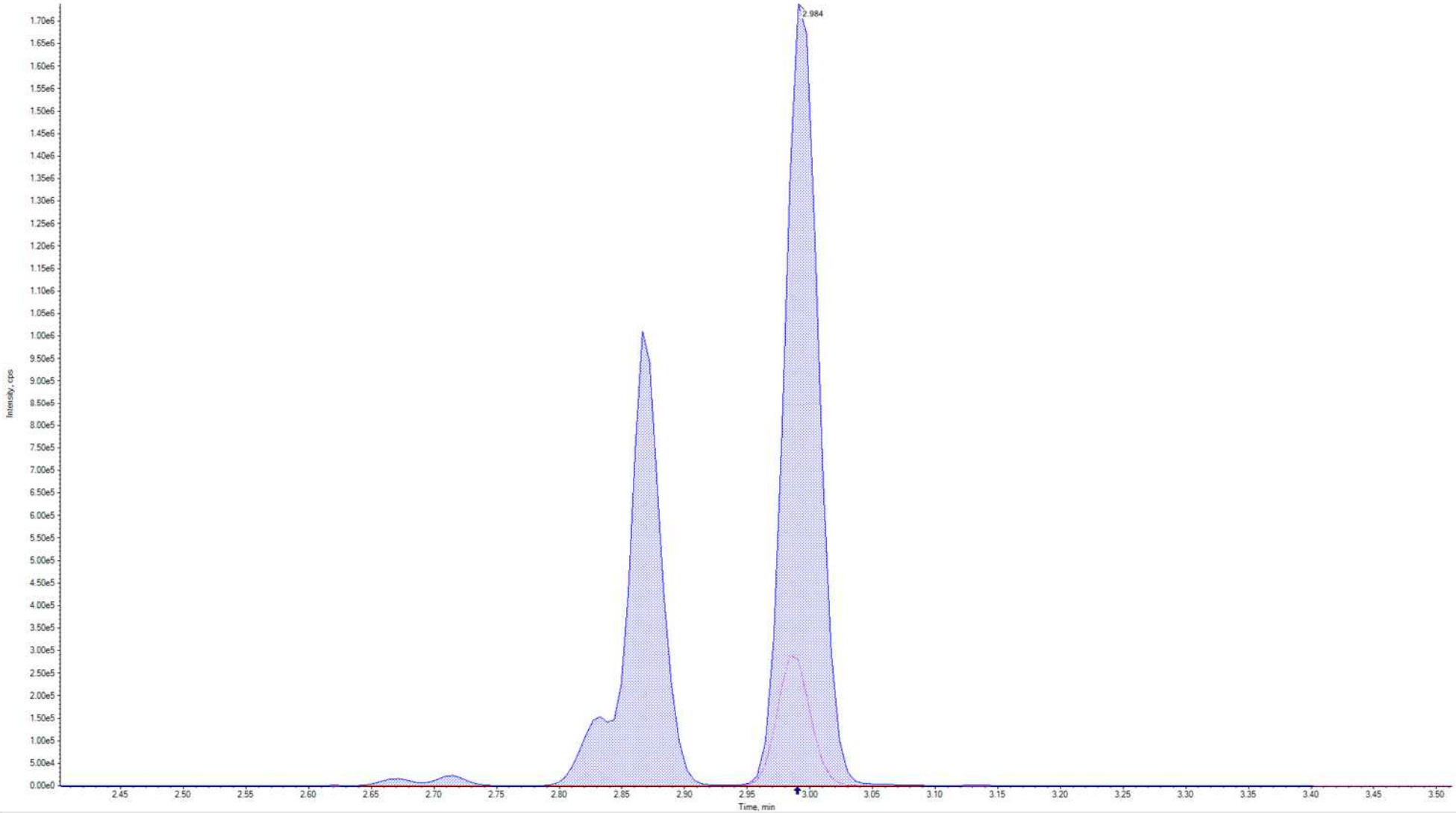
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Alpha Analytical LLC
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PFOA
Sample: IA1633STD-62.5 S/N:874.1 Points Across peak:80



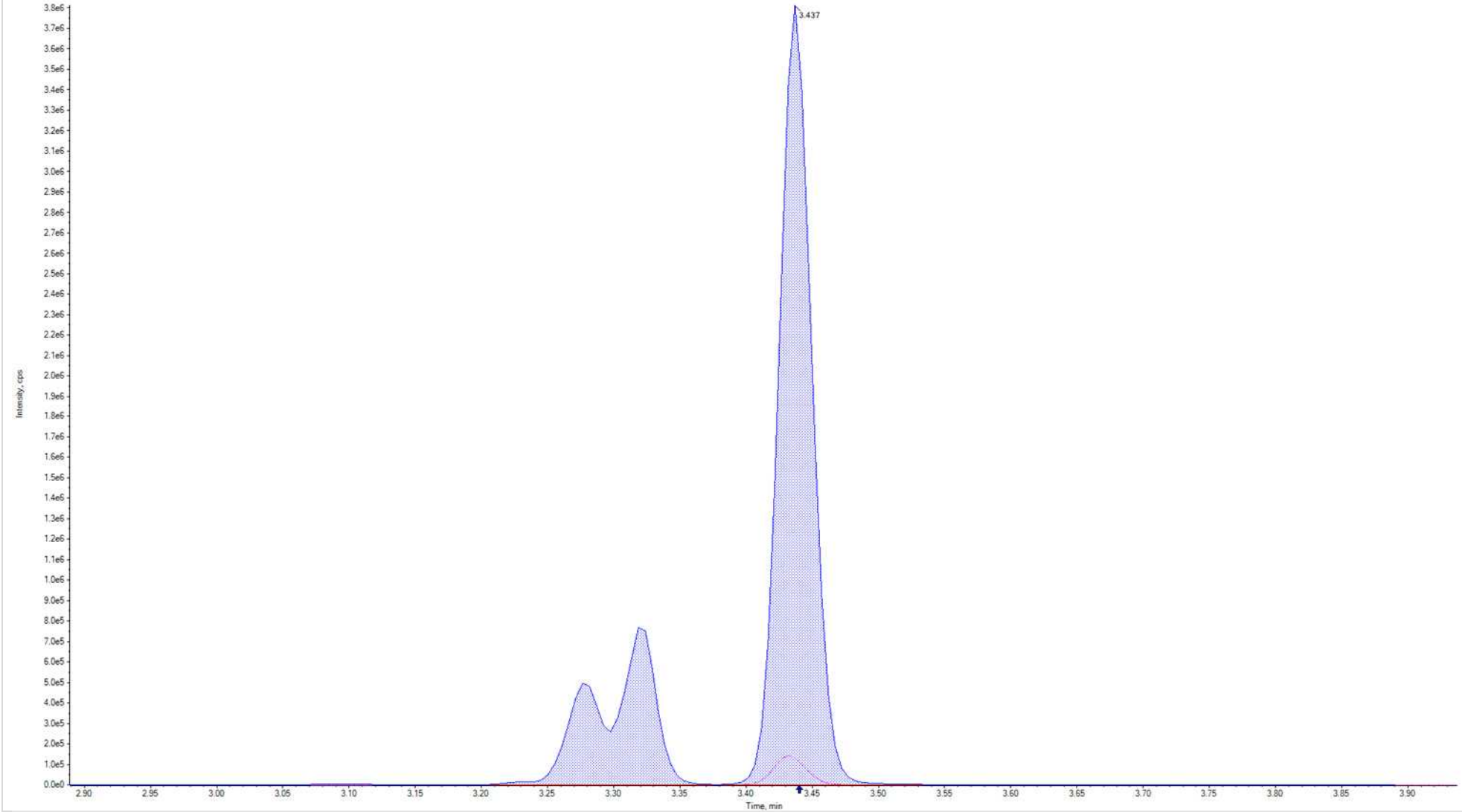
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOA_2
Sample: IA1633STD-62.5 S/N:477.8 Points Across peak:80



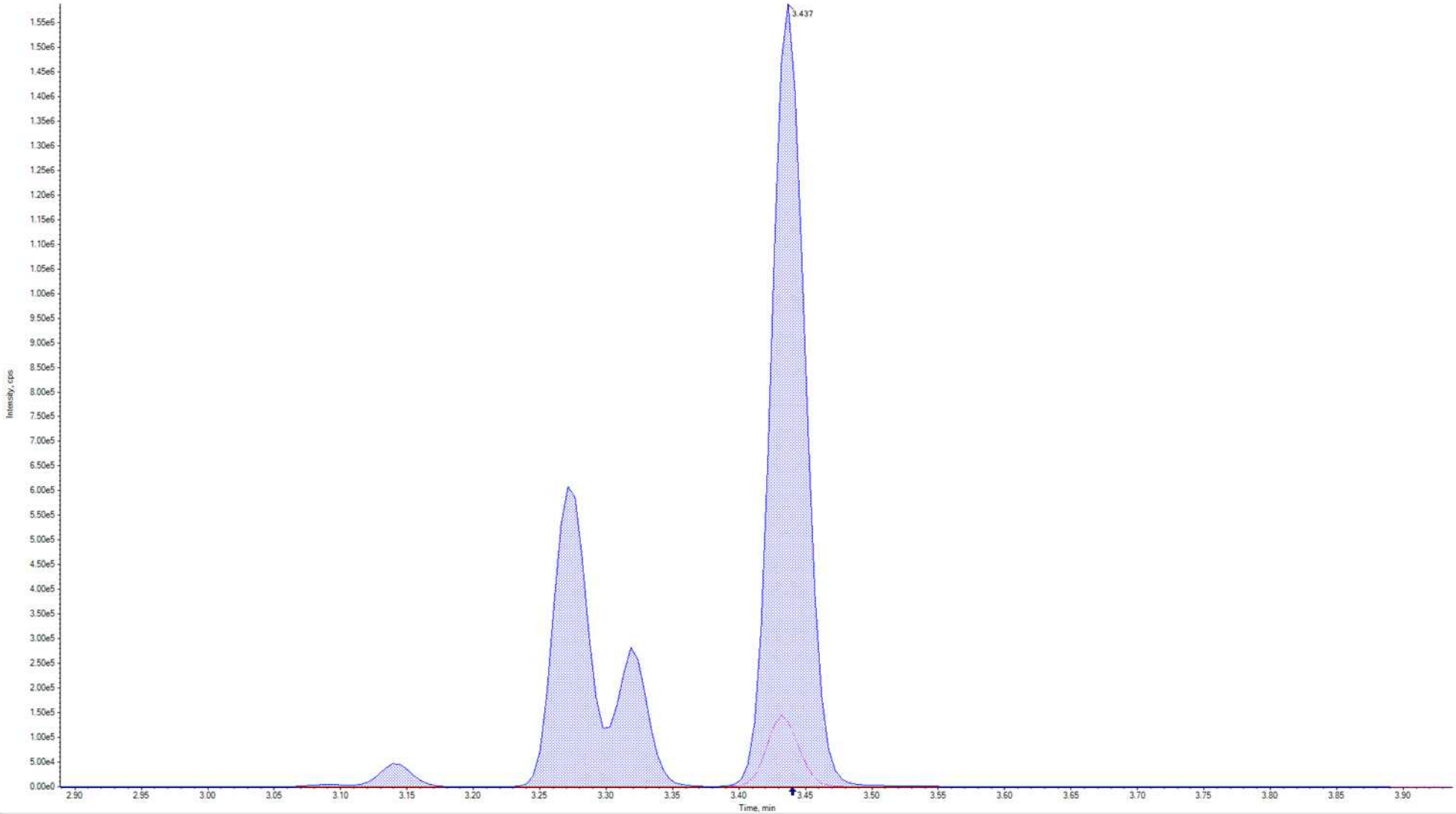
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Alpha Analytical LLC
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PFNA
Sample: IA1633STD-62.5 S/N:907.5 Points Across peak:73



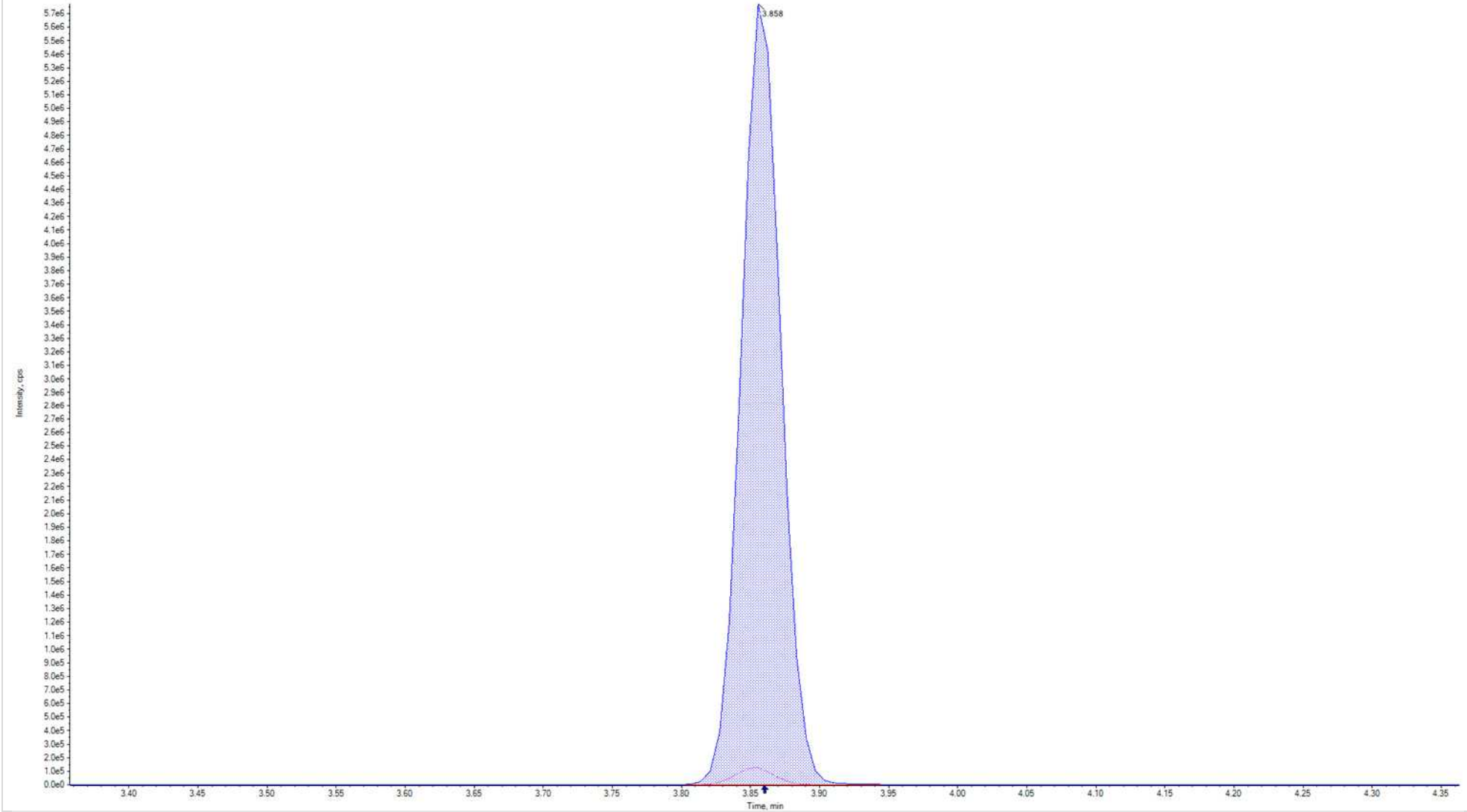
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PFNA_2
Sample: IA1633STD-62.5 S/N:478.5 Points Across peak:94



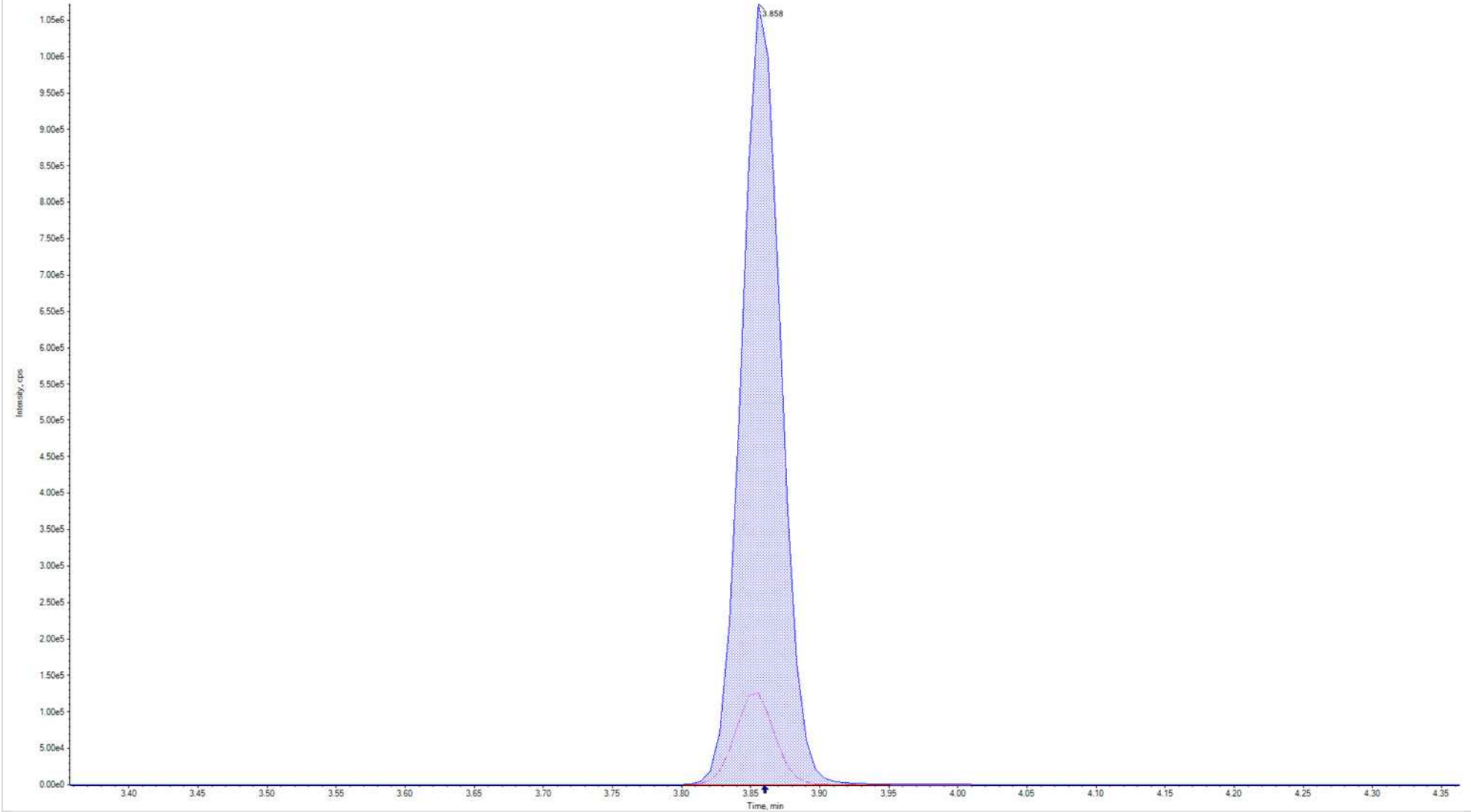
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PFDA
Sample: IA1633STD-62.5 S/N:108690.3 Points Across peak:28



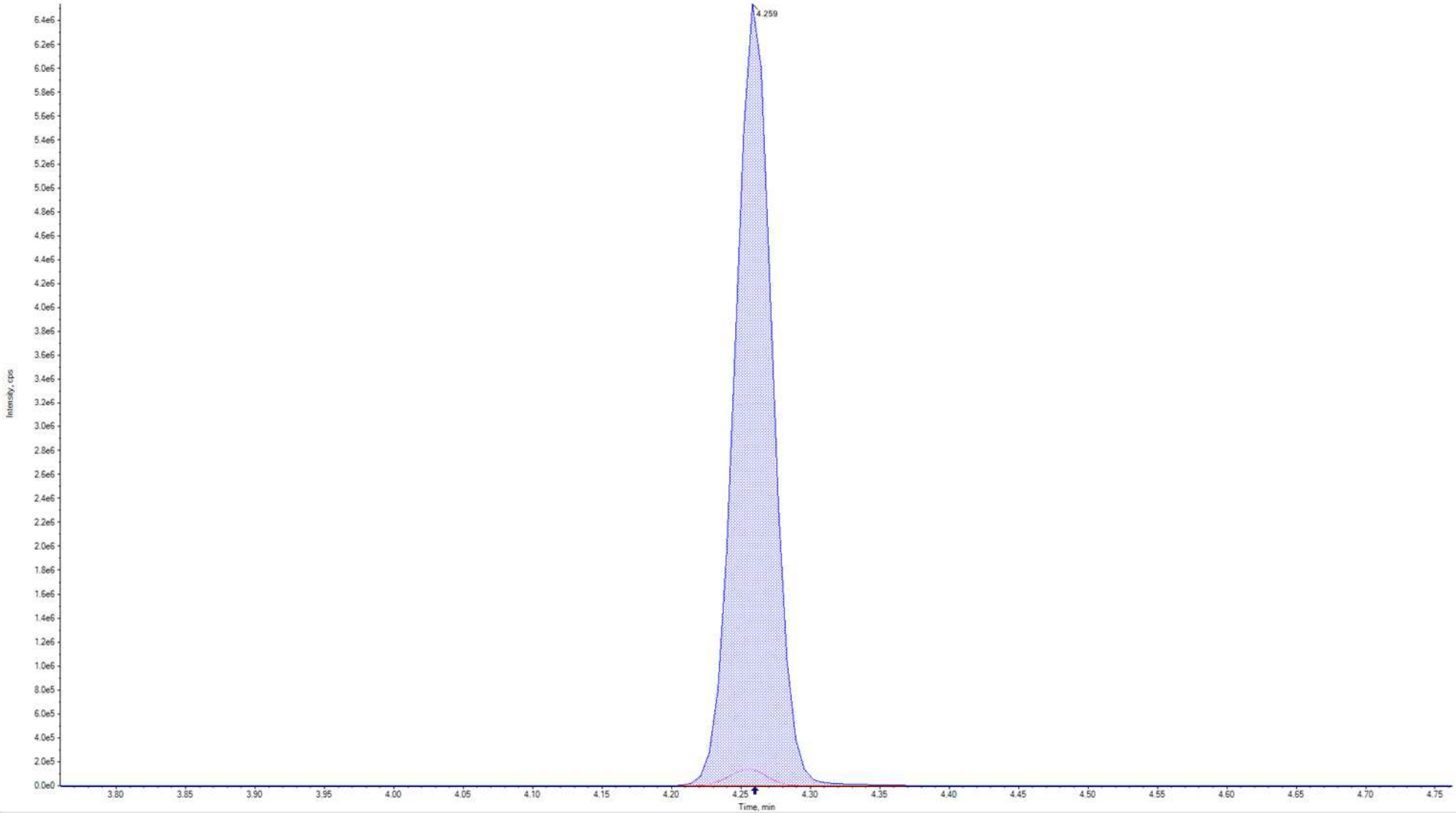
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PFDA_2
Sample: IA1633STD-62.5 S/N:6160.0 Points Across peak:25



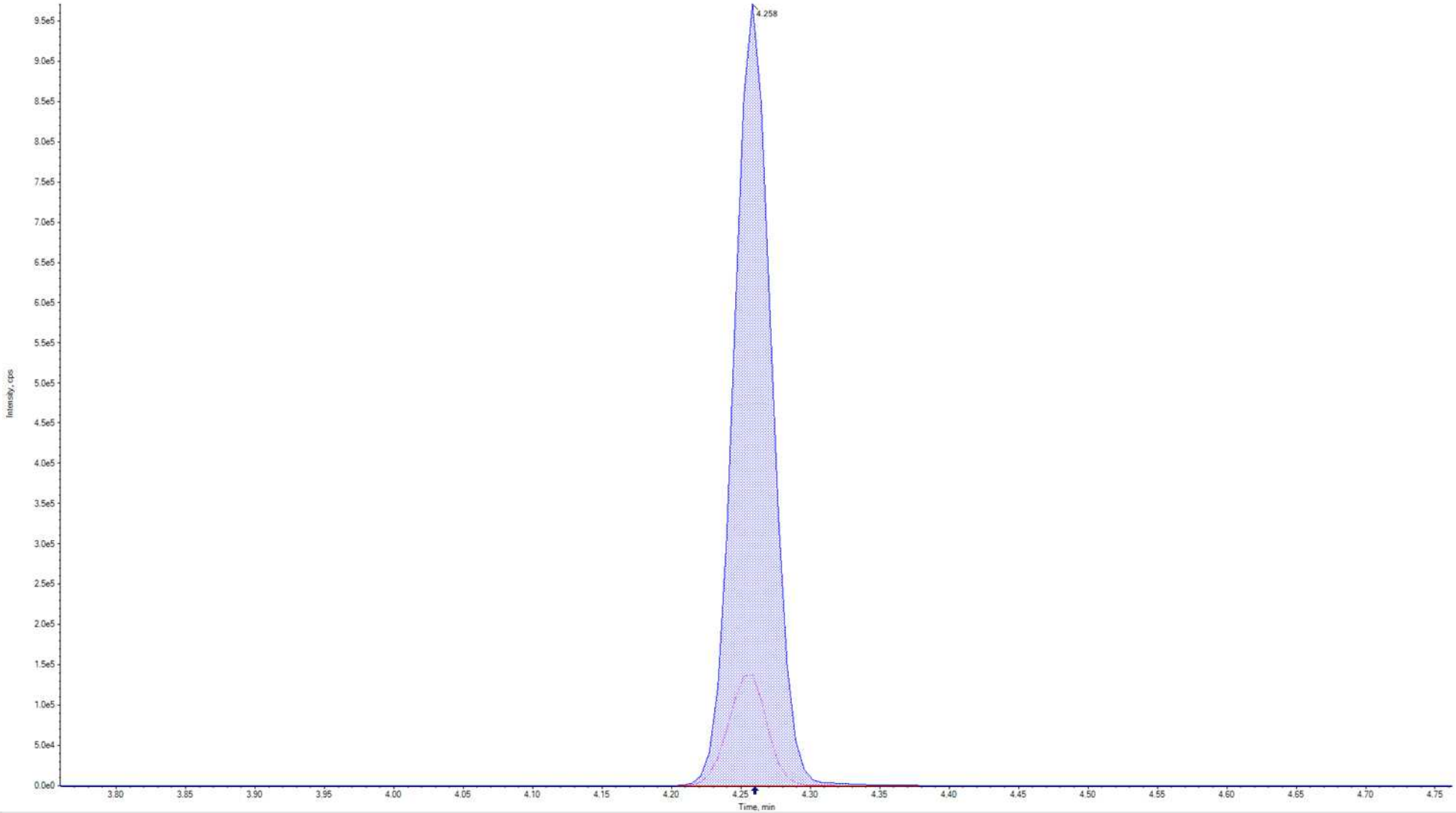
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PFUnA
Sample: IA1633STD-62.5 S/N:30023.2 Points Across peak:36



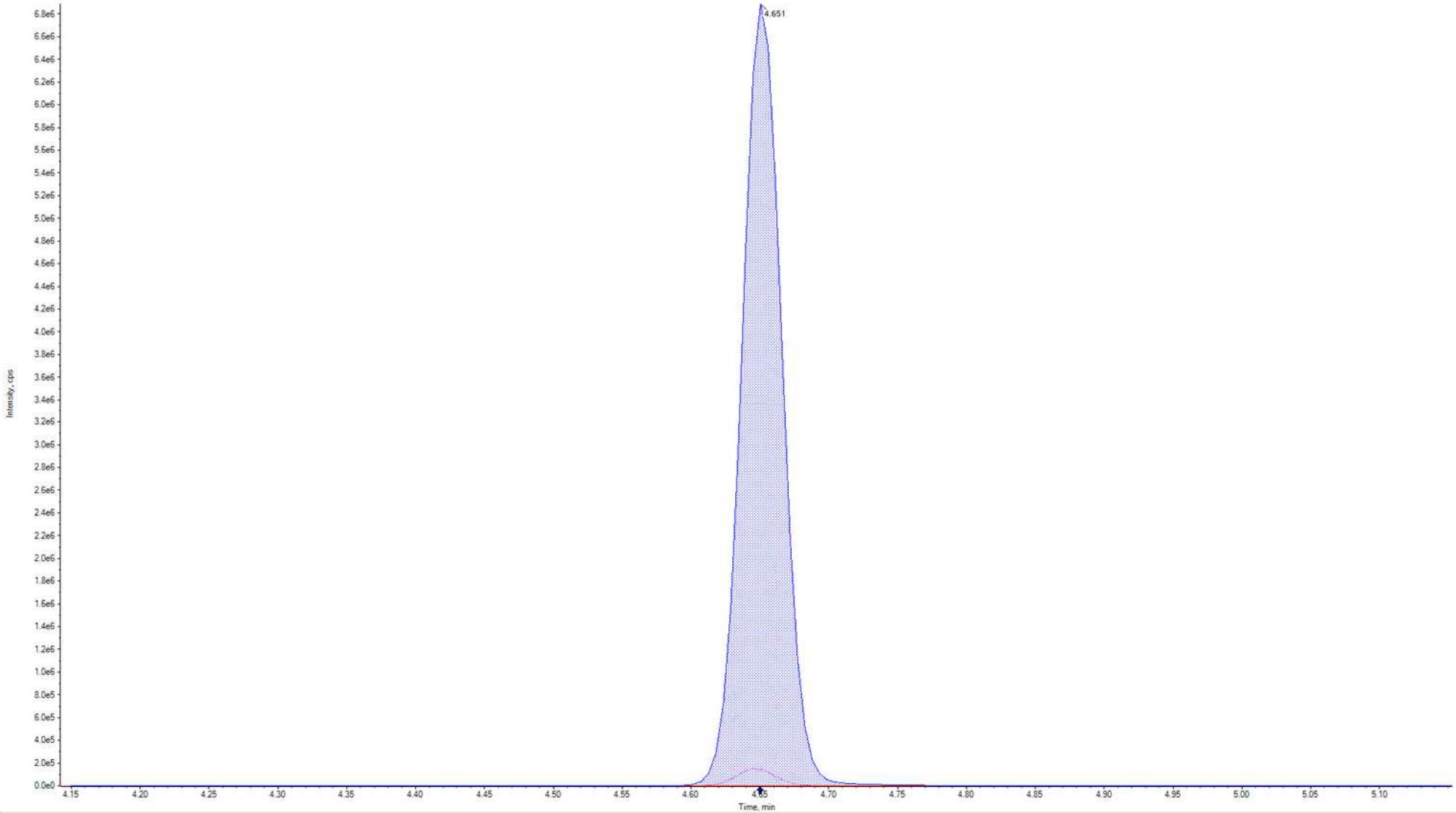
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PFUnA_2
Sample: IA1633STD-62.5 S/N:5061.0 Points Across peak:36



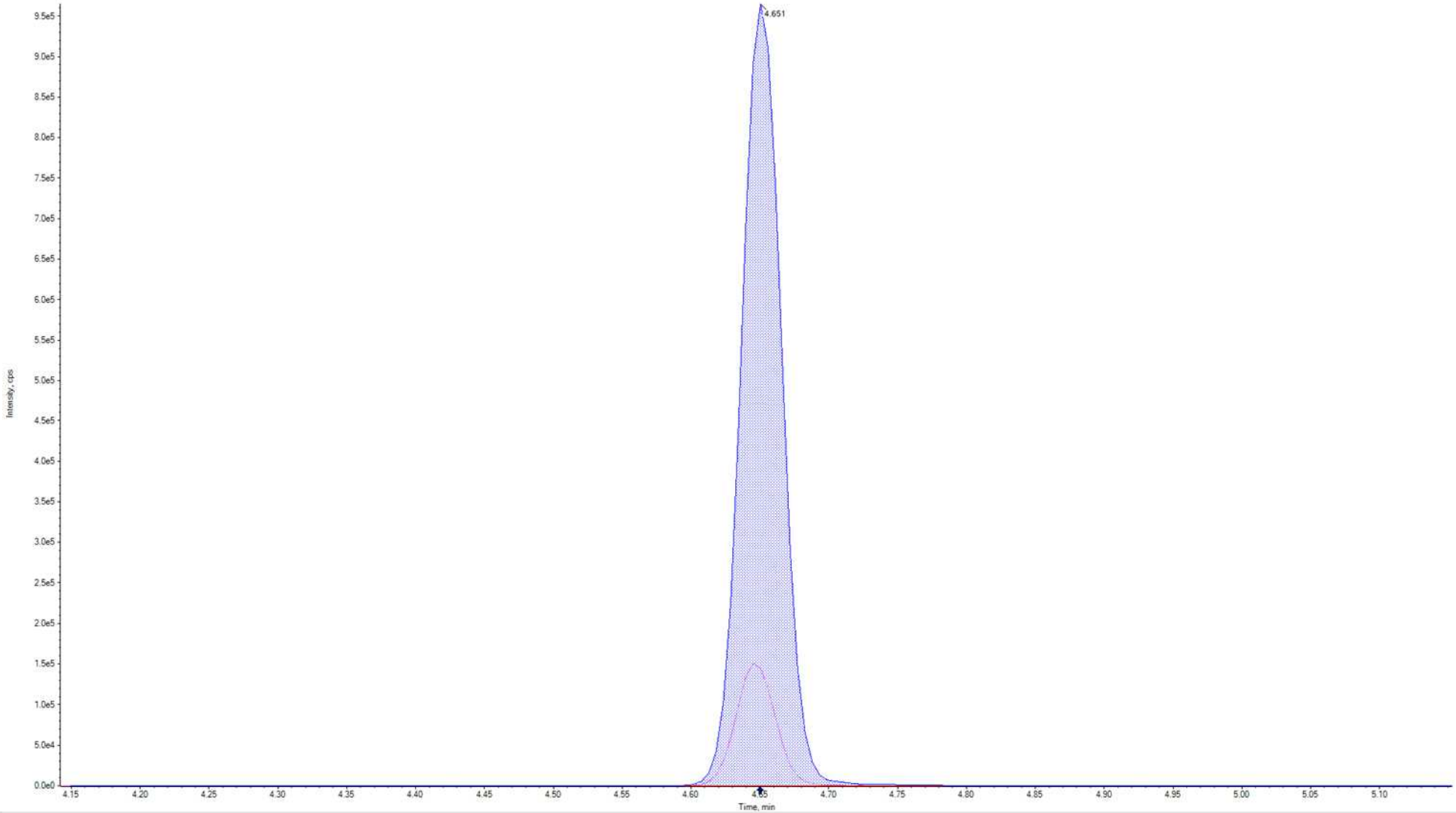
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PFDoA
Sample: IA1633STD-62.5 S/N:189932.3 Points Across peak:38



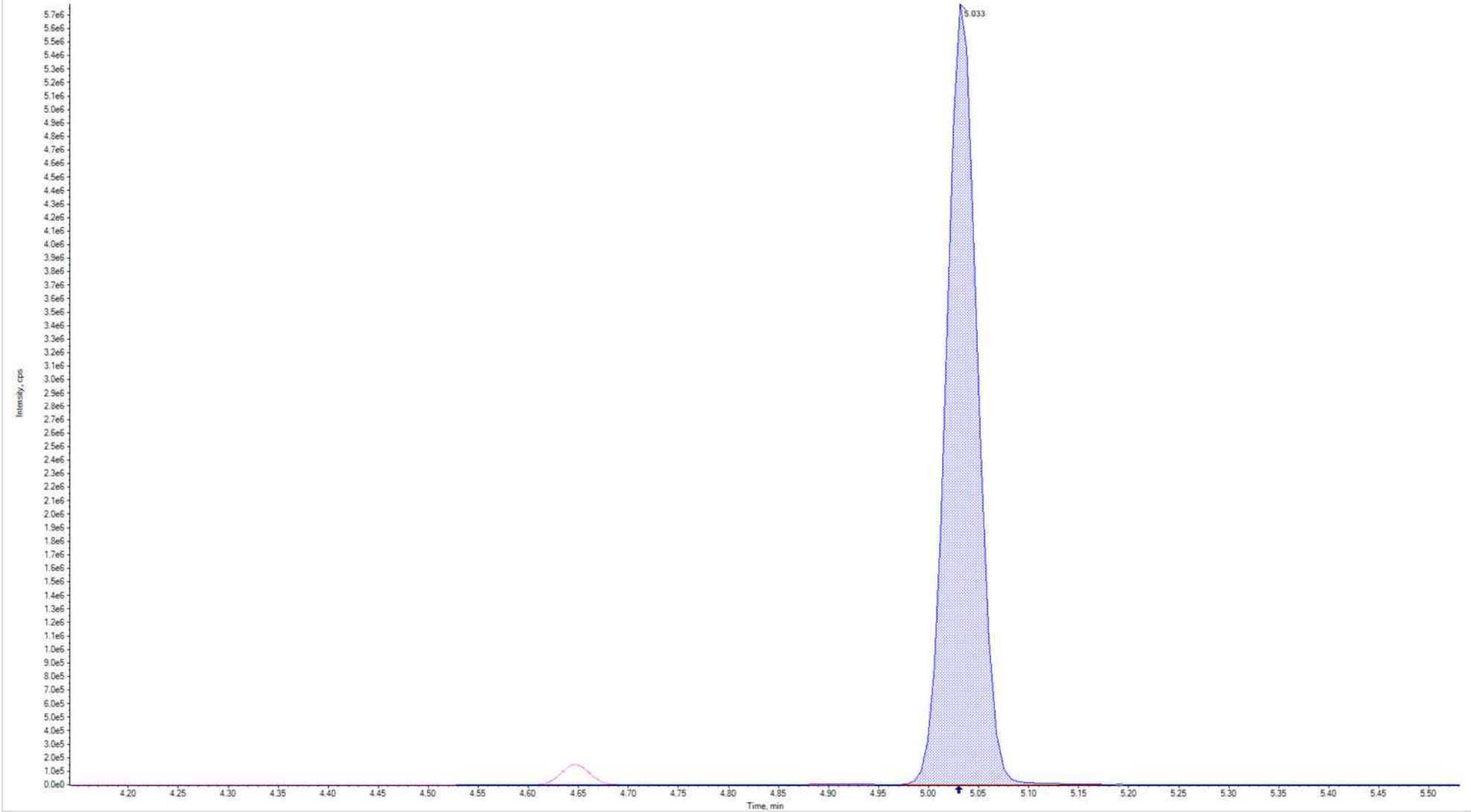
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFDoA_2
Sample: IA1633STD-62.5 S/N:7118.9 Points Across peak:40



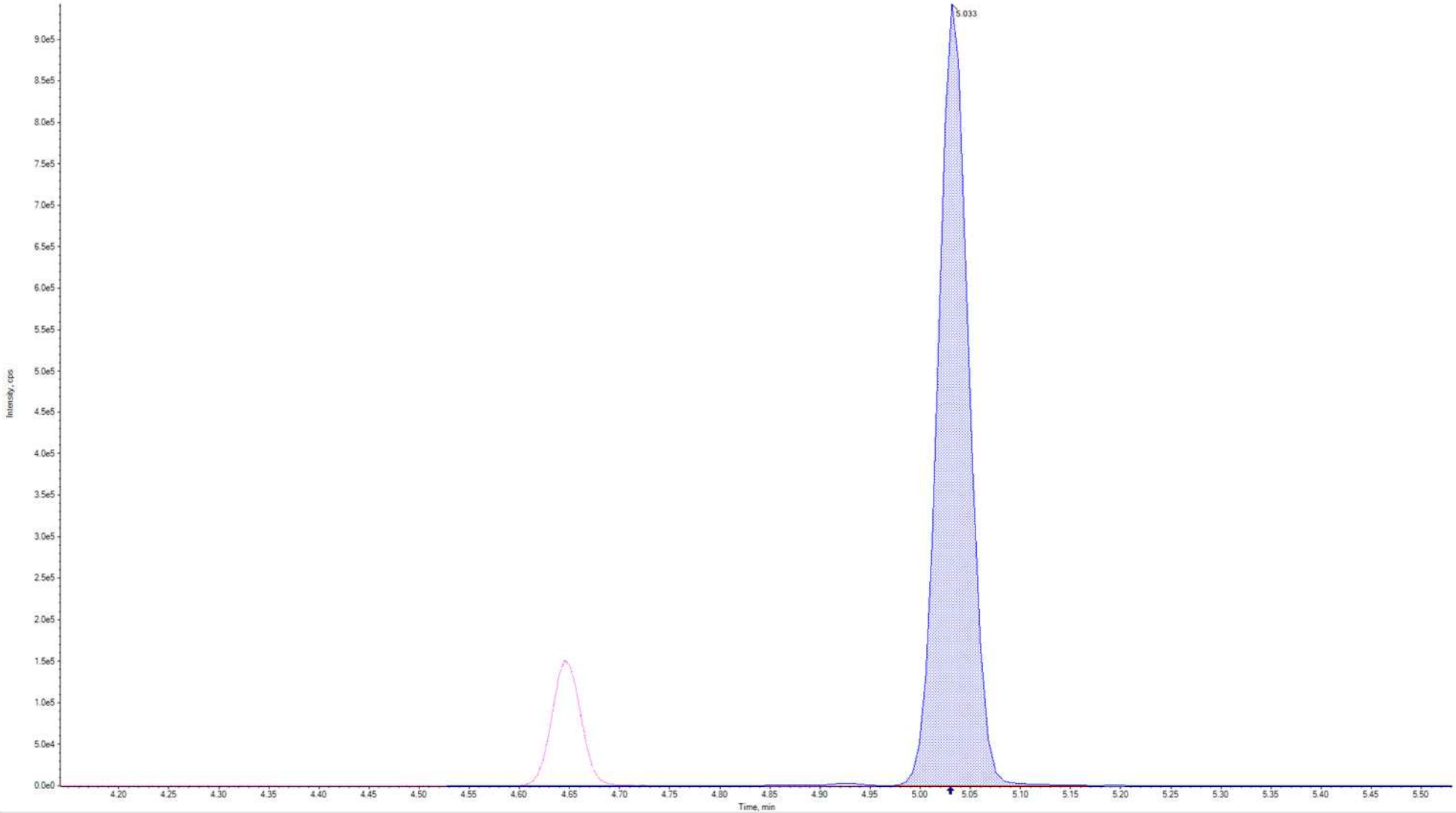
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Alpha Analytical LLC
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PFTrDA
Sample: IA1633STD-62.5 S/N:24768.7 Points Across peak:32



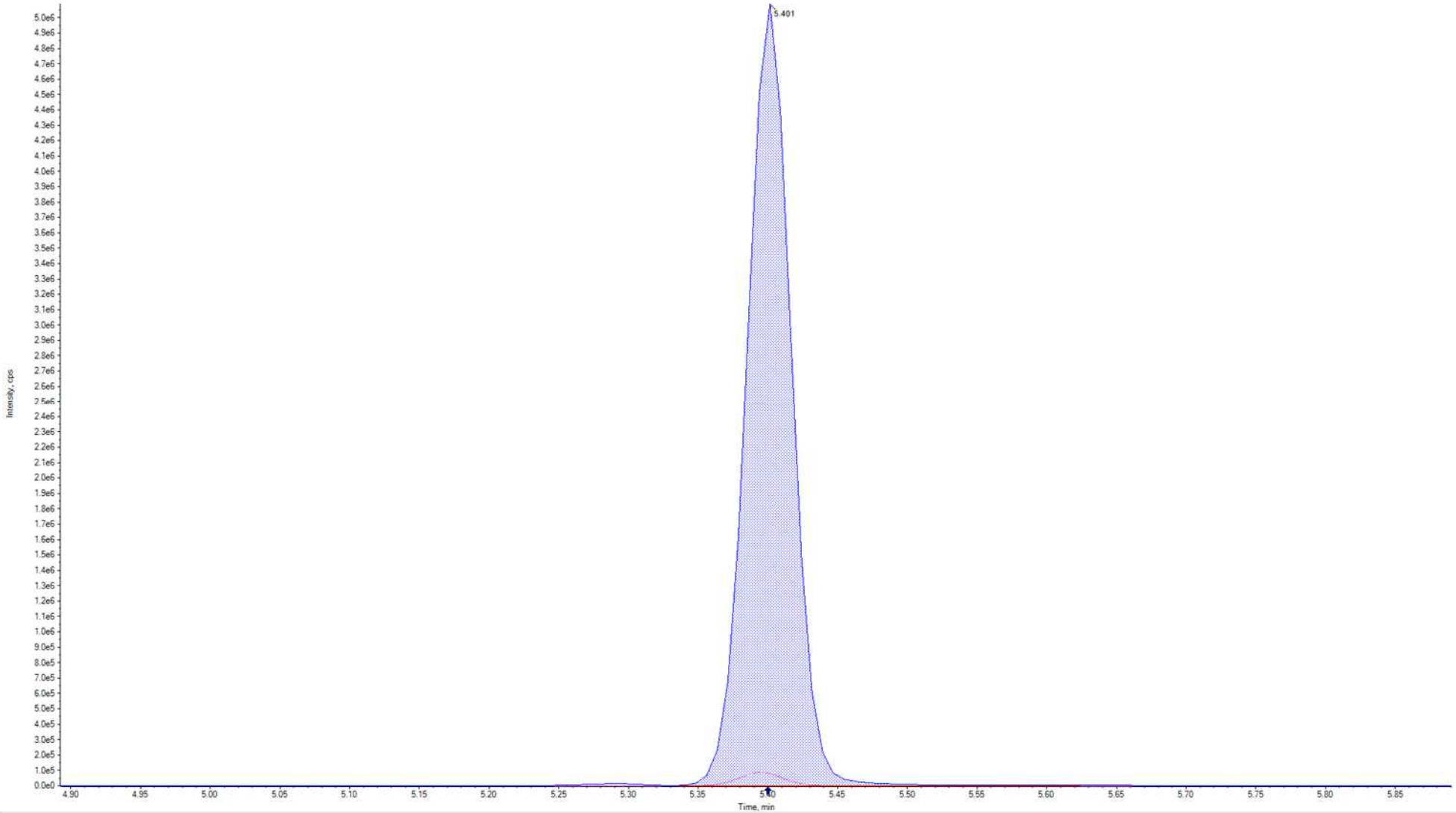
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Alpha Analytical LLC
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PFTrDA_2
Sample: IA1633STD-62.5 S/N:2941.3 Points Across peak:30



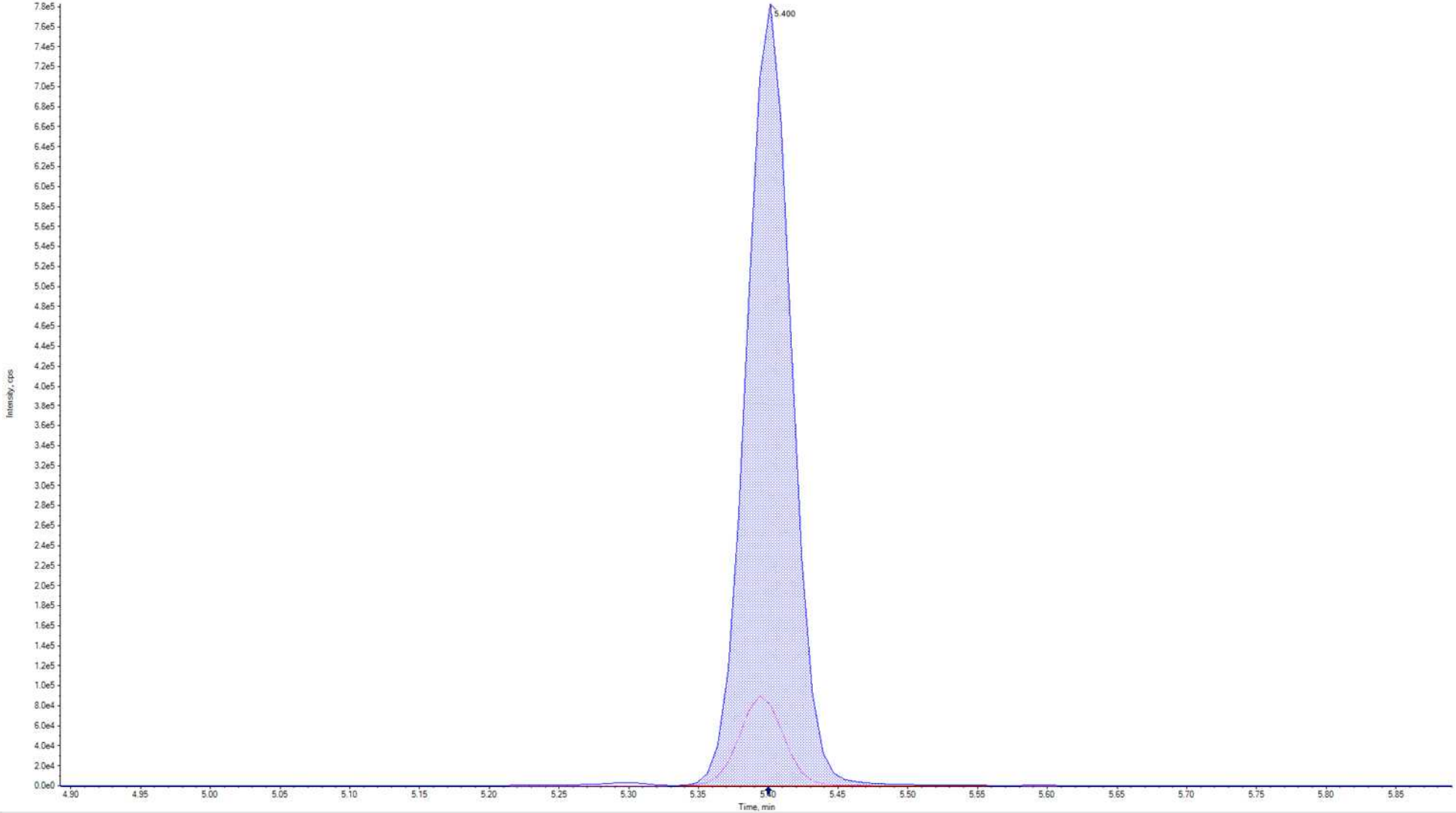
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Alpha Analytical LLC
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PFTeDA
Sample: IA1633STD-62.5 S/N:11542.0 Points Across peak:36



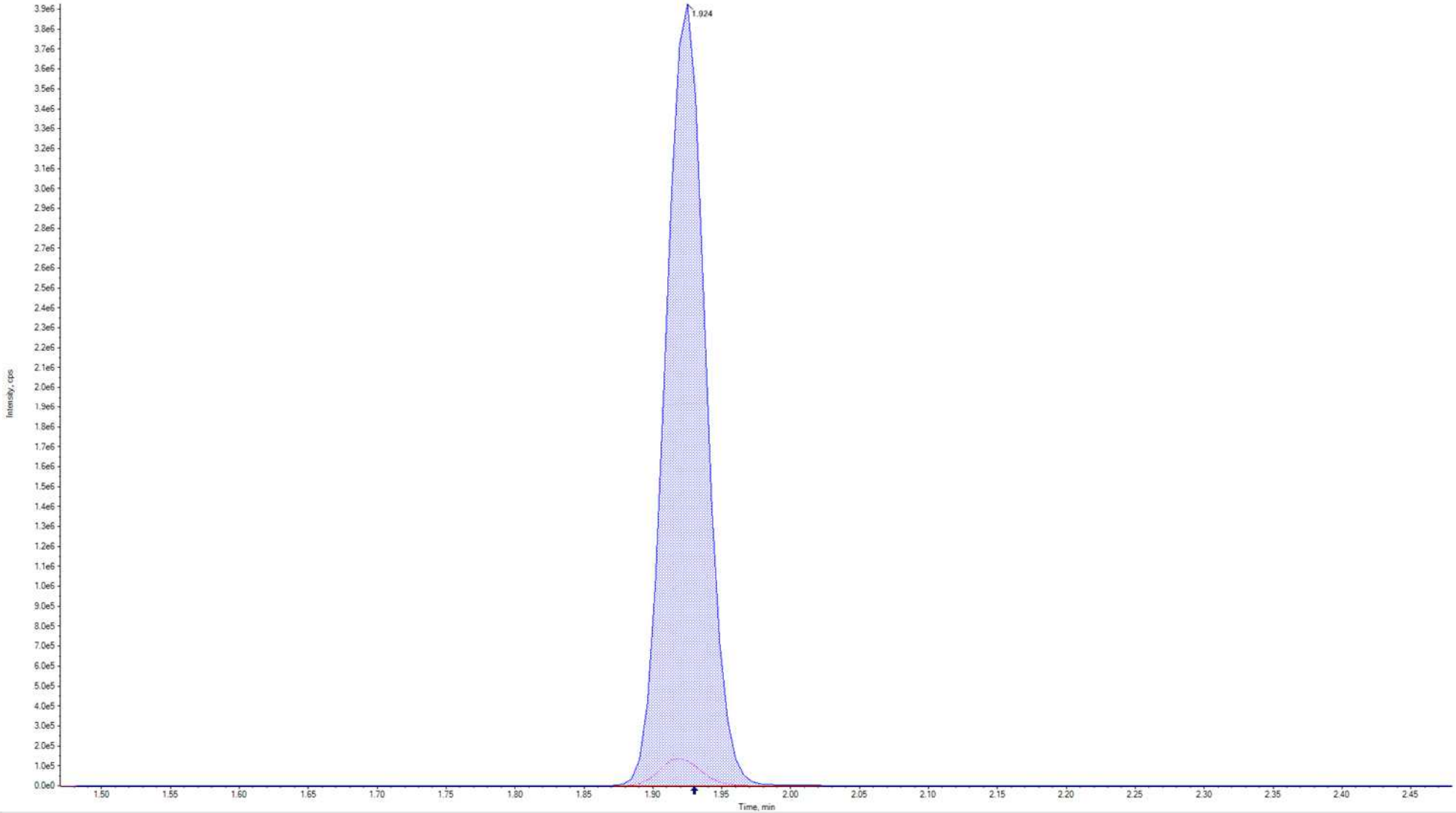
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Alpha Analytical LLC
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PFTeDA_2
Sample: IA1633STD-62.5 S/N:49052.9 Points Across peak:30



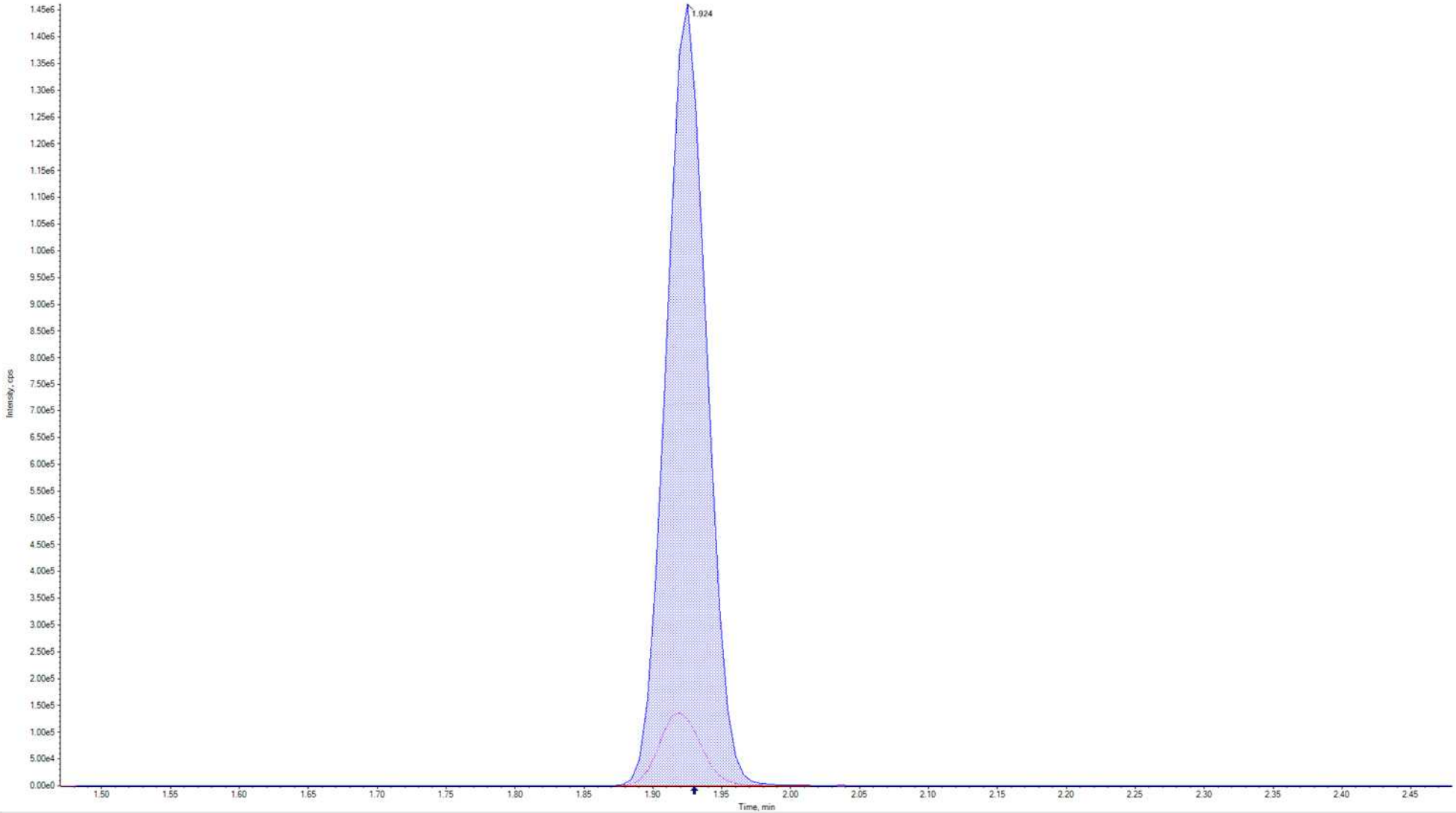
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PFBS
Sample: IA1633STD-62.5 S/N:6794.6 Points Across peak:42



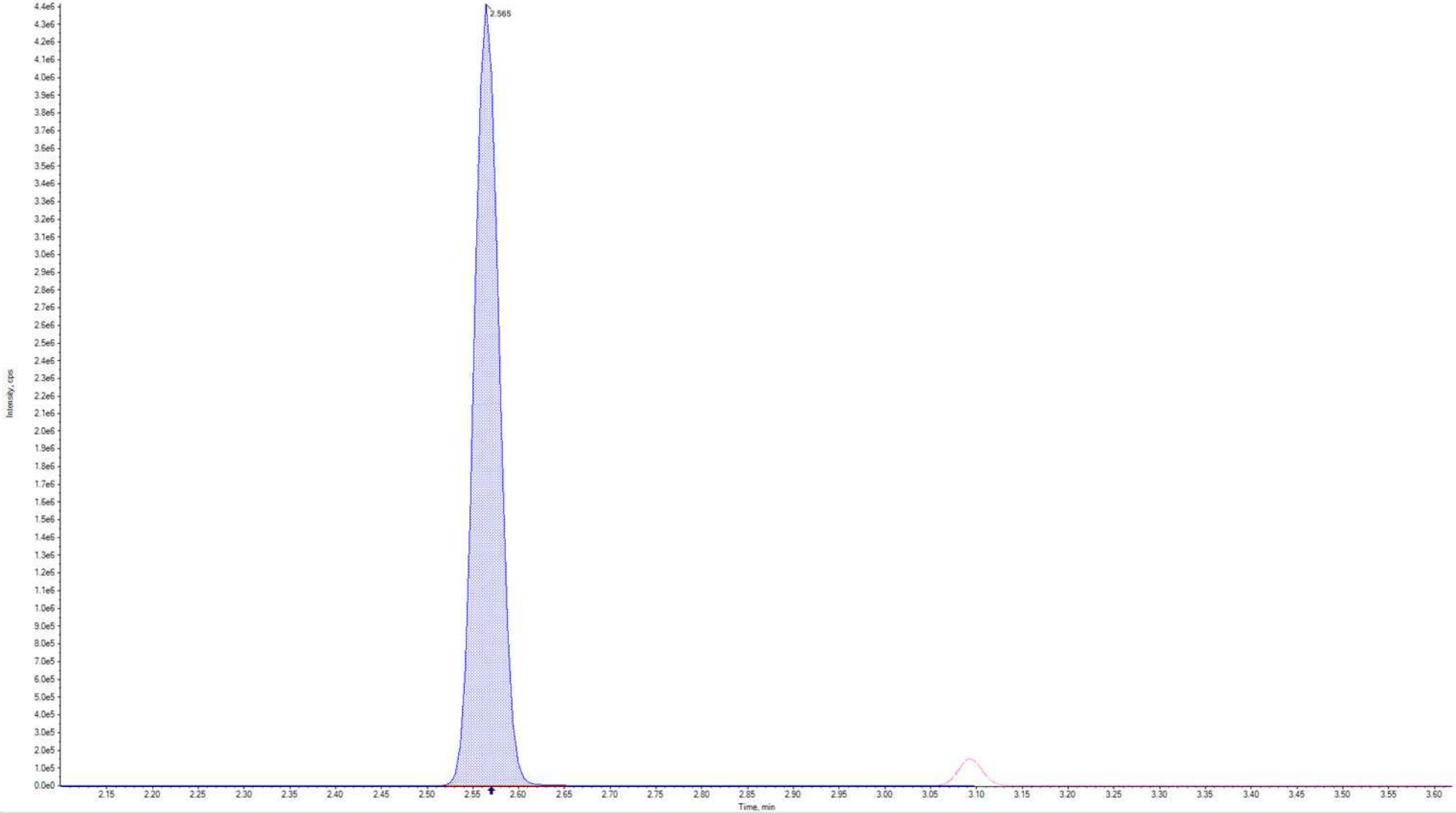
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Alpha Analytical LLC
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PFBS_2
Sample: IA1633STD-62.5 S/N:36627.5 Points Across peak:31



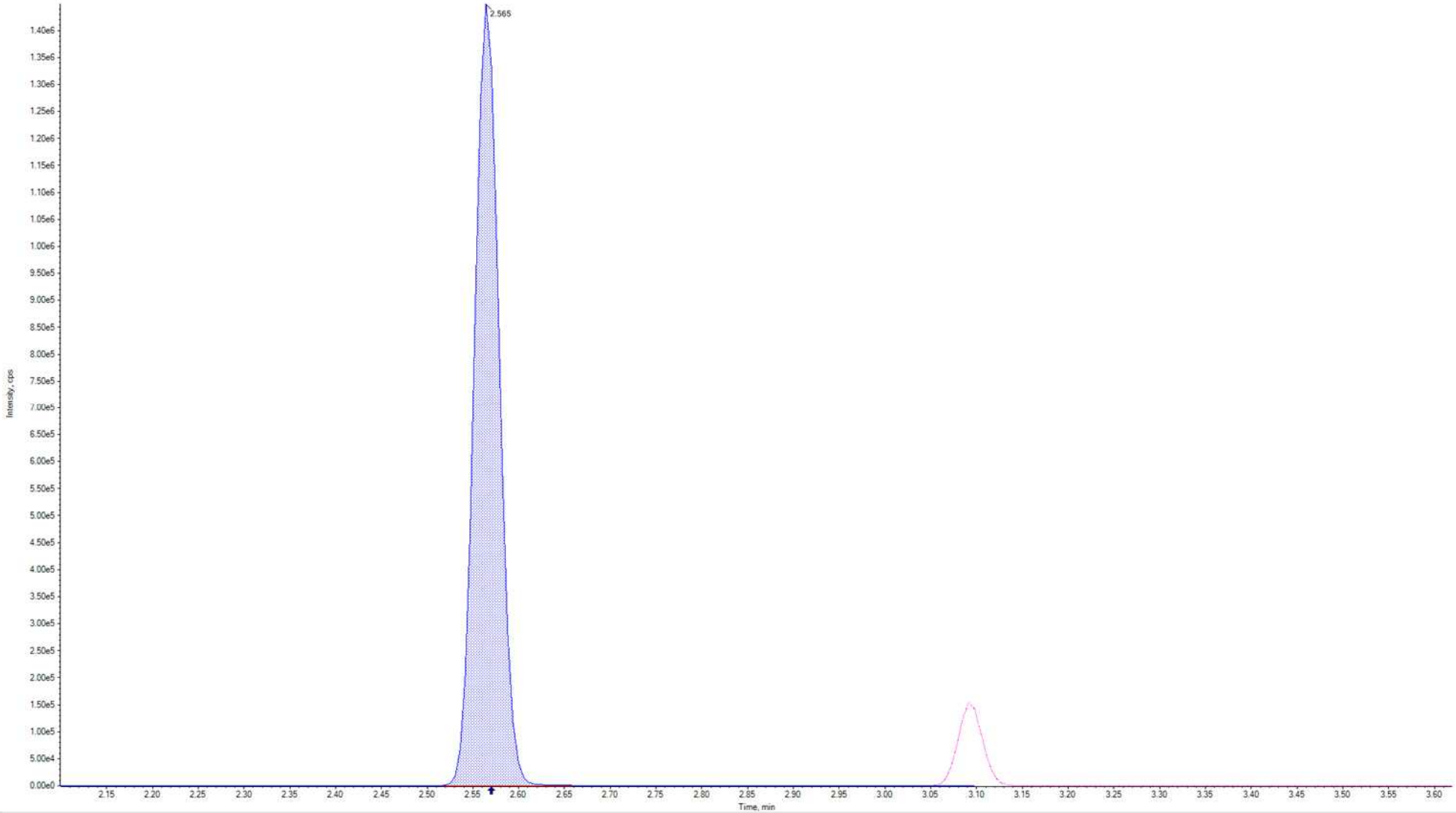
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PFPeS
Sample: IA1633STD-62.5 S/N:88544.8 Points Across peak:32



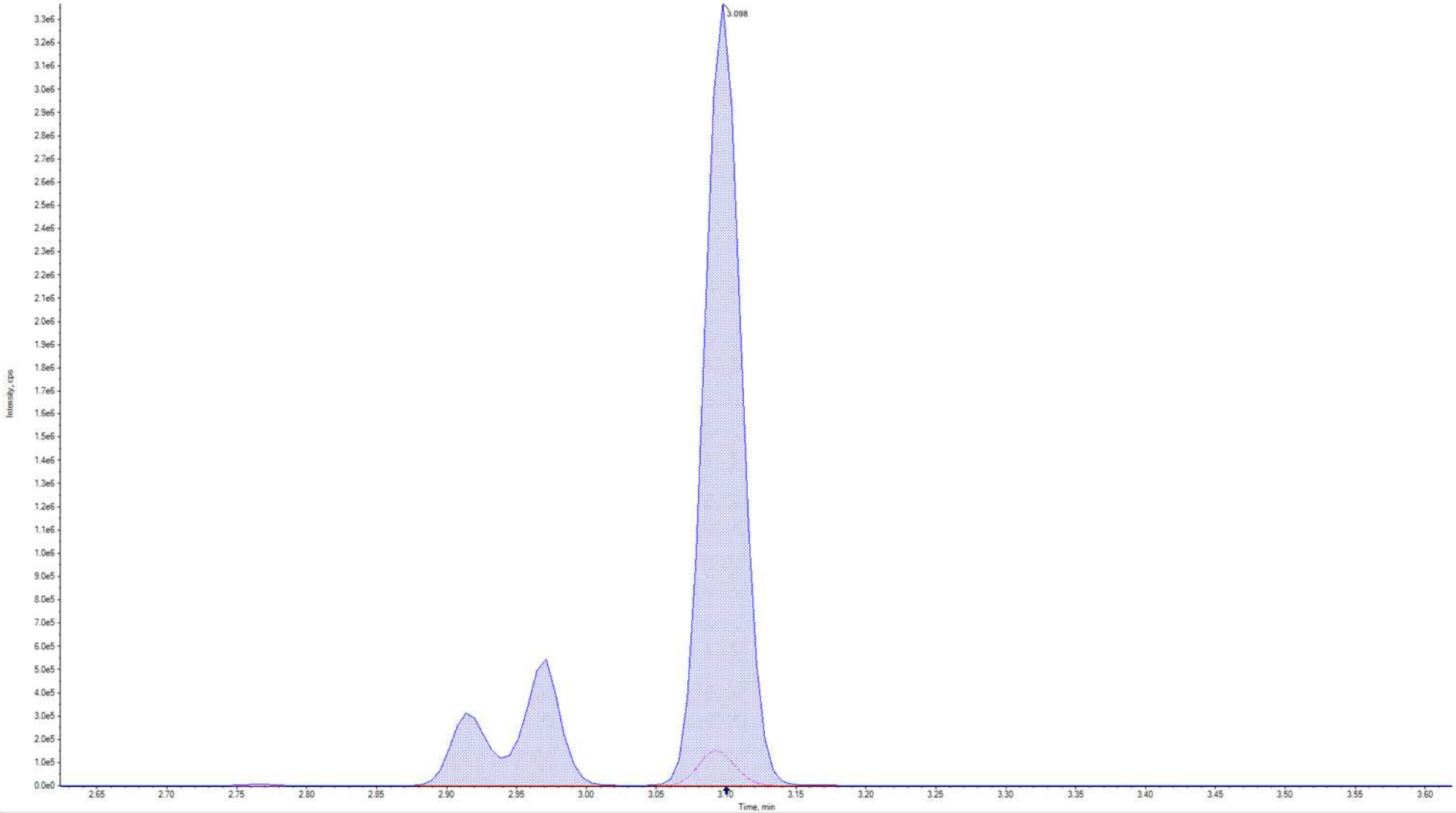
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Alpha Analytical LLC
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PFPeS_2
Sample: IA1633STD-62.5 S/N:5582.8 Points Across peak:39



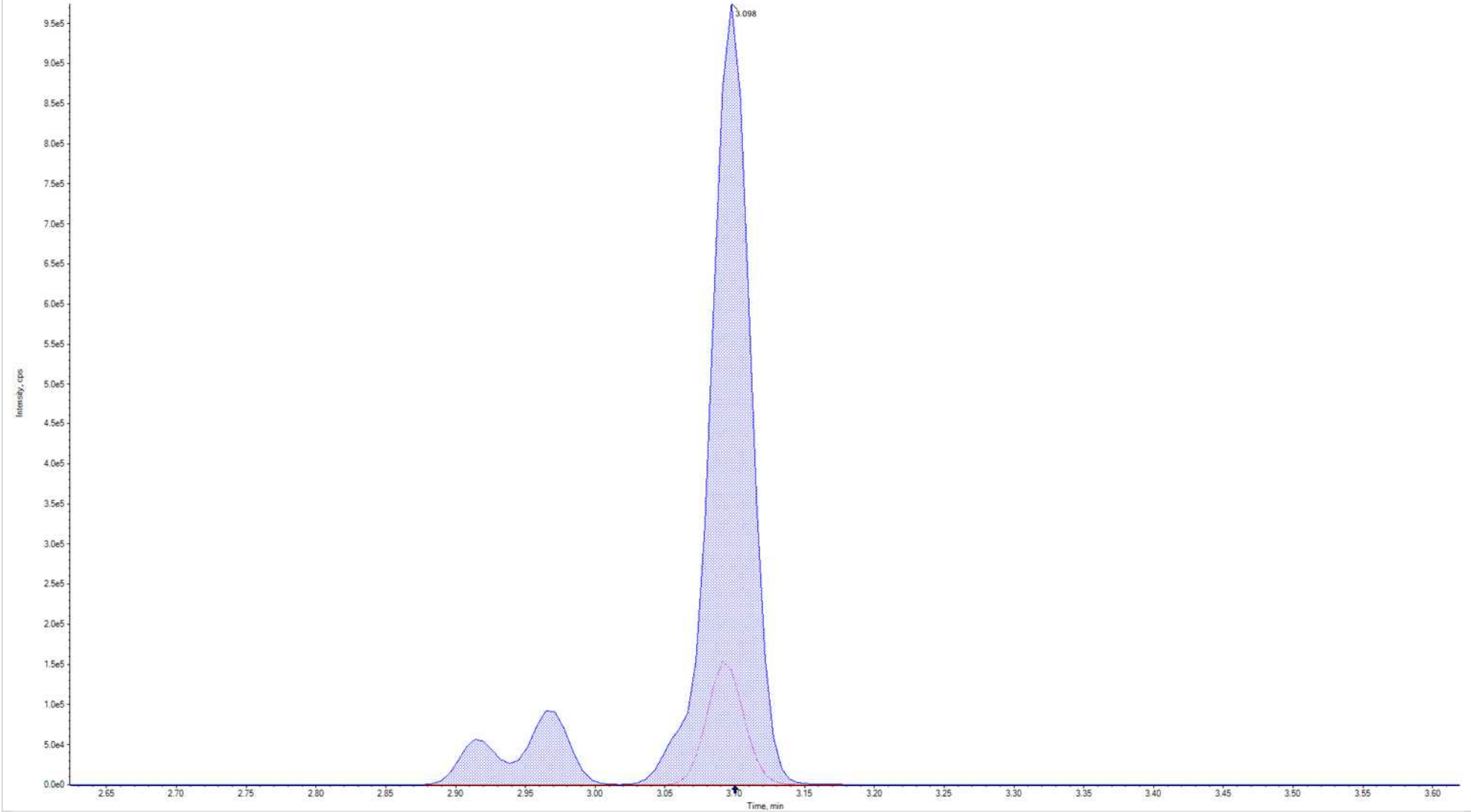
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Alpha Analytical LLC
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PFHxS
Sample: IA1633STD-62.5 S/N:1153.8 Points Across peak:56



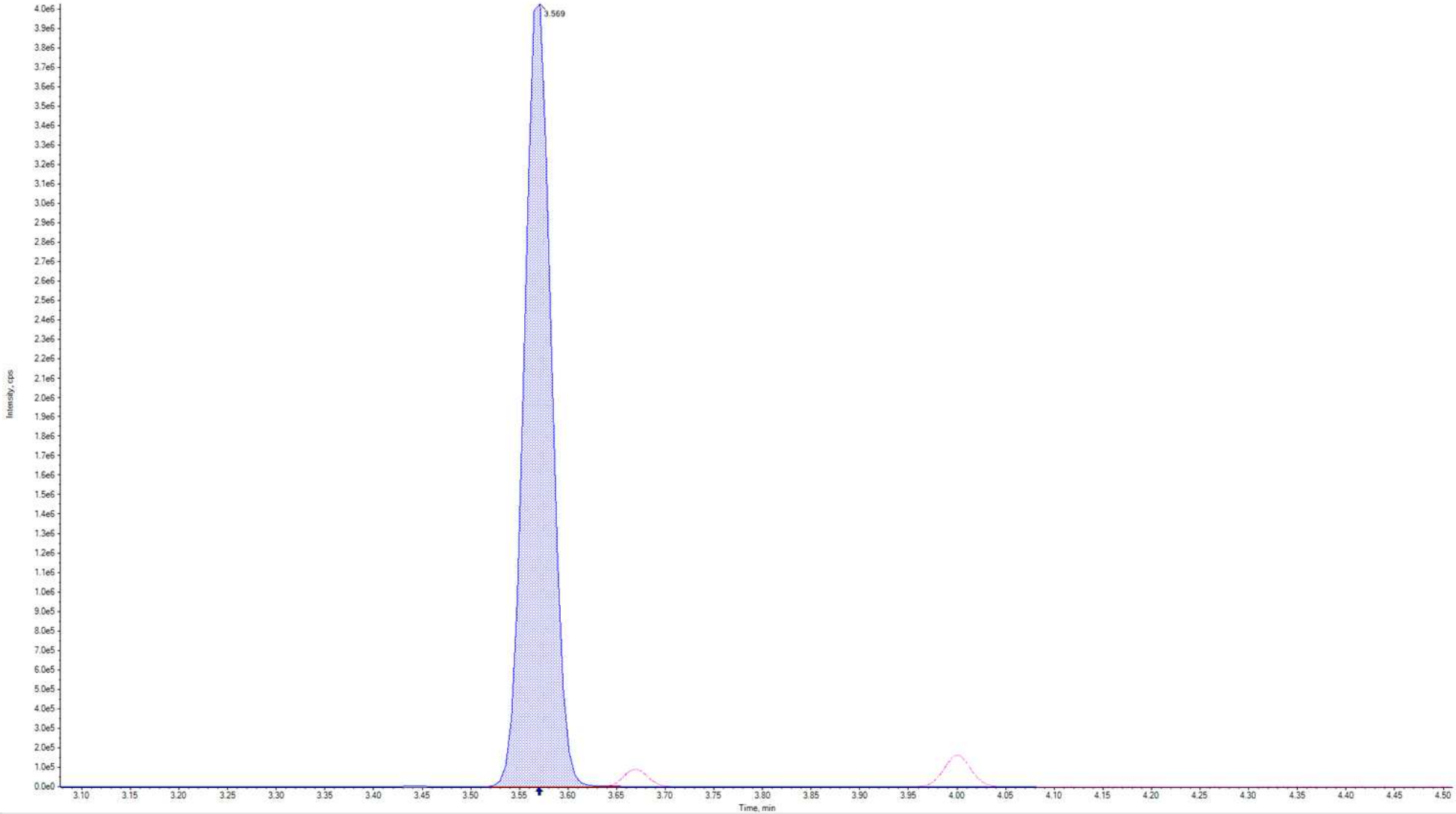
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Alpha Analytical LLC
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PFHxS_2
Sample: IA1633STD-62.5 S/N:1599.5 Points Across peak:65



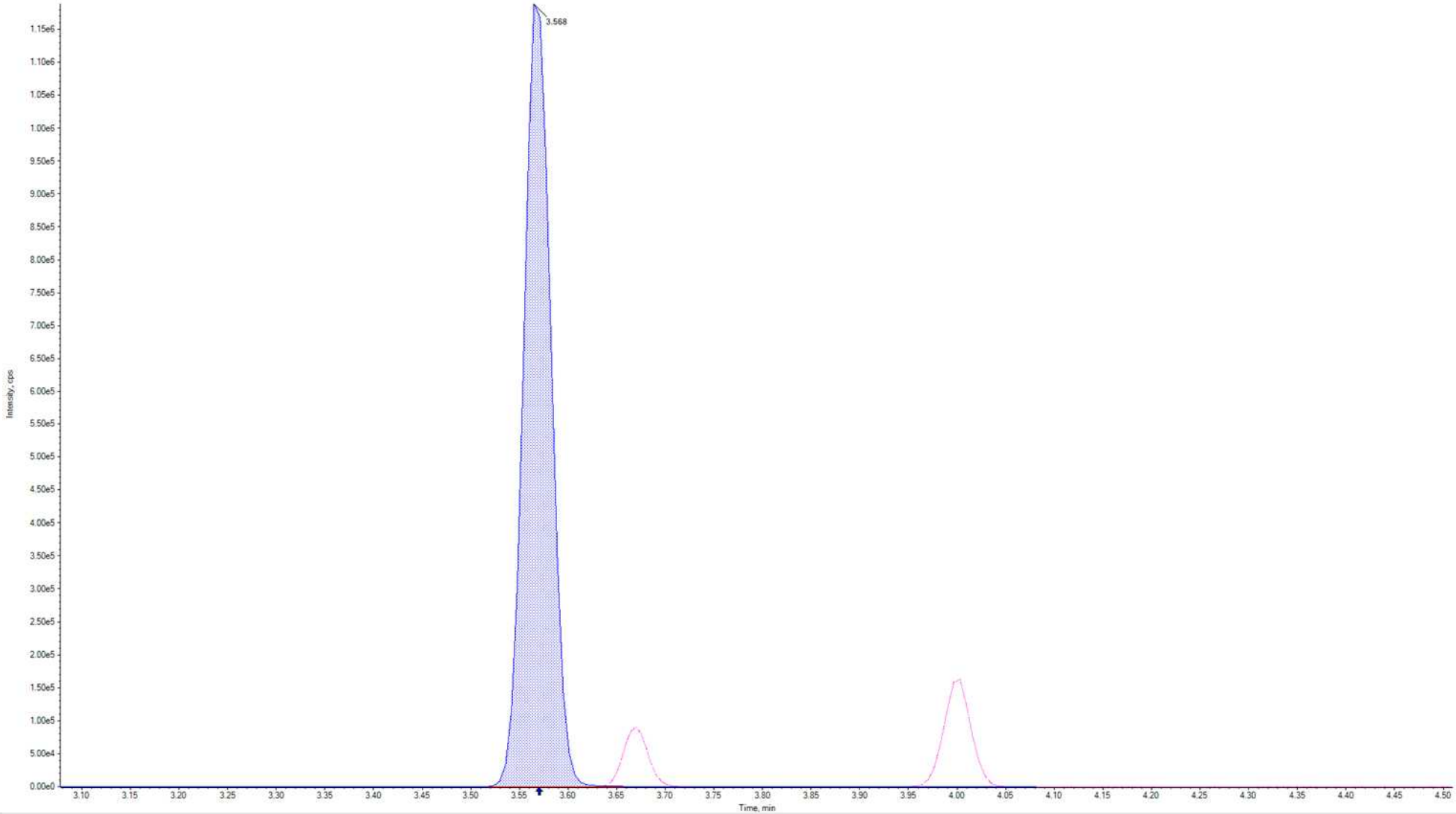
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFHpS
Sample: IA1633STD-62.5 S/N:9180.9 Points Across peak:39



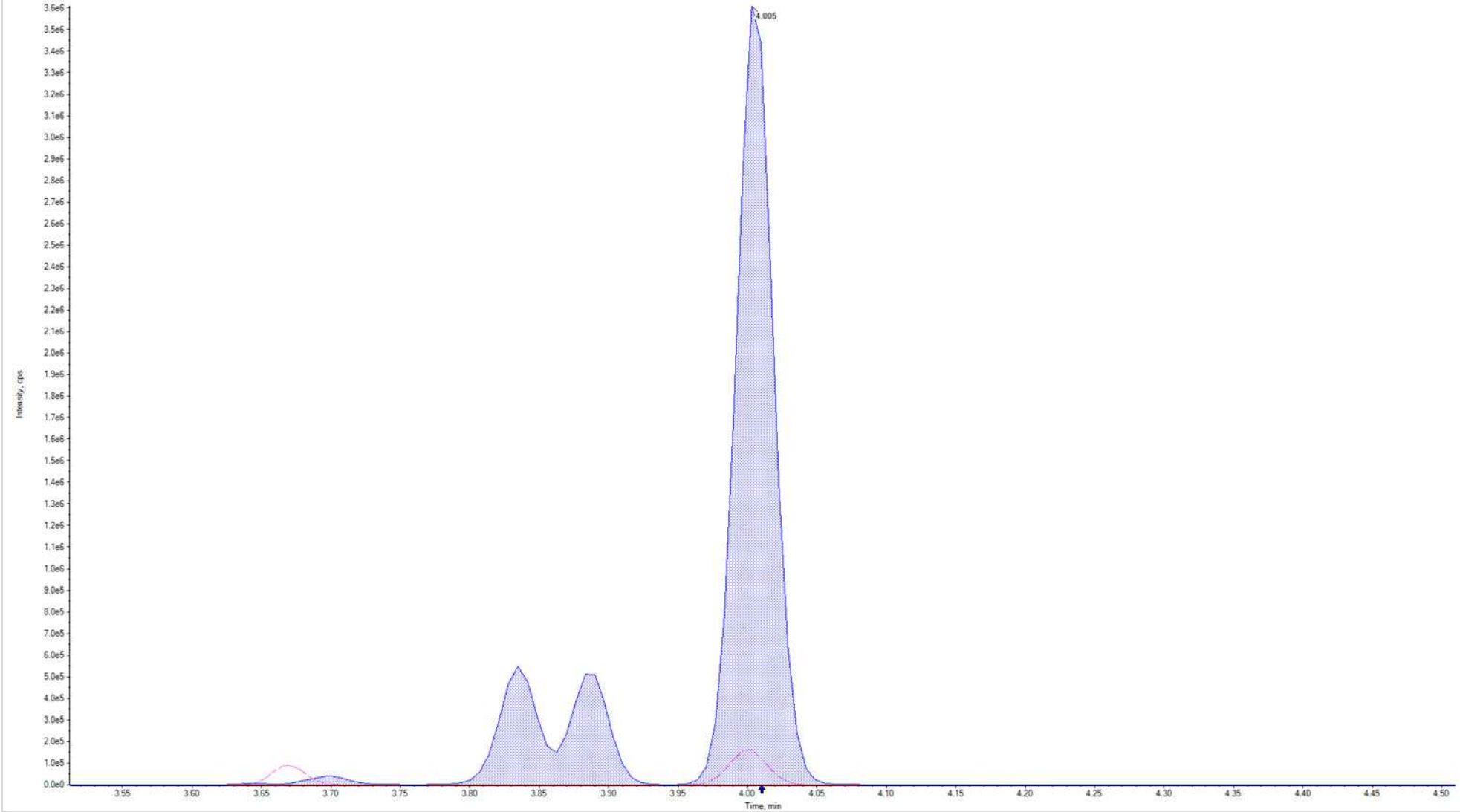
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Alpha Analytical LLC
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PFHpS_2
Sample: IA1633STD-62.5 S/N:9678.9 Points Across peak:34



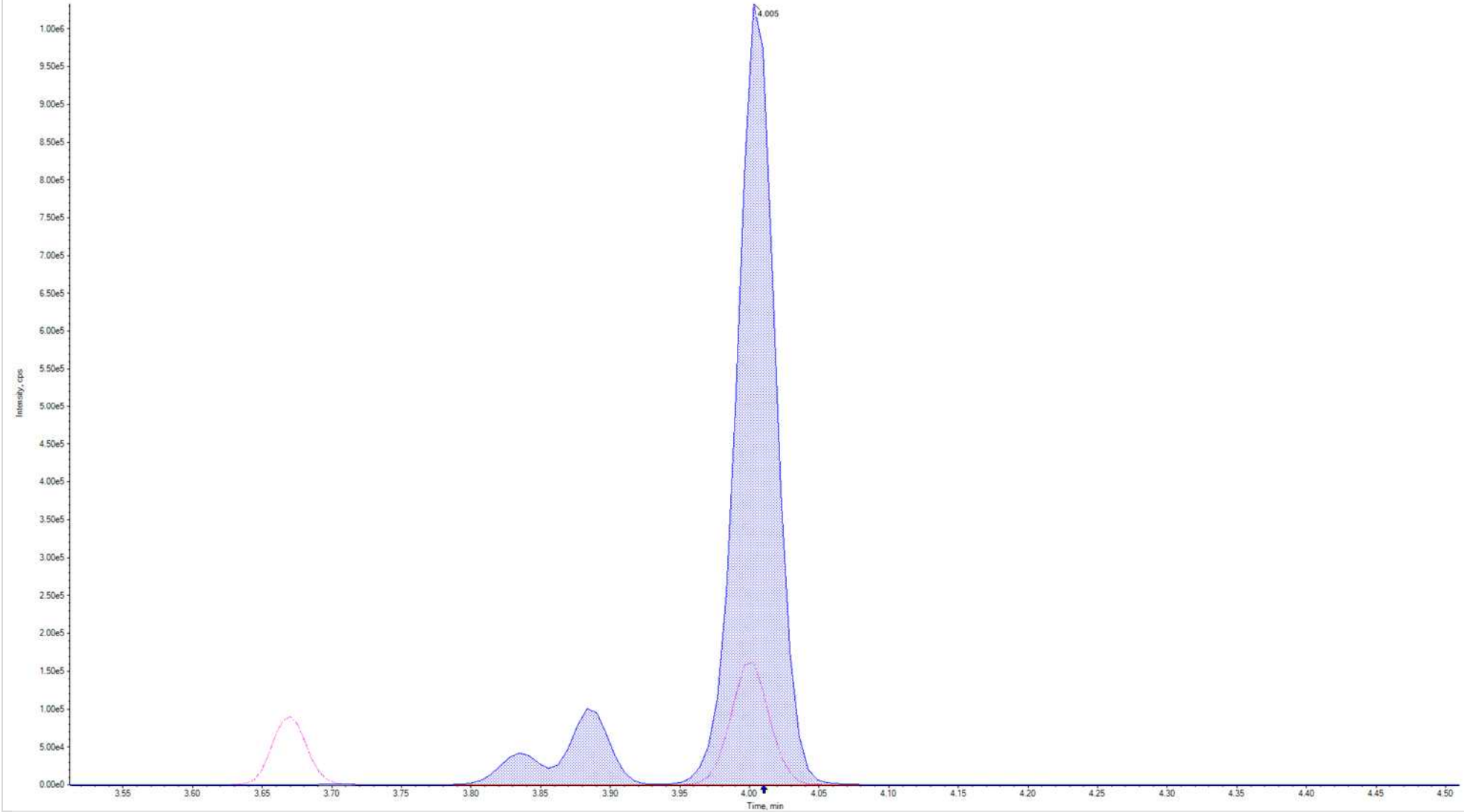
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOS
Sample: IA1633STD-62.5 S/N:599.1 Points Across peak:77



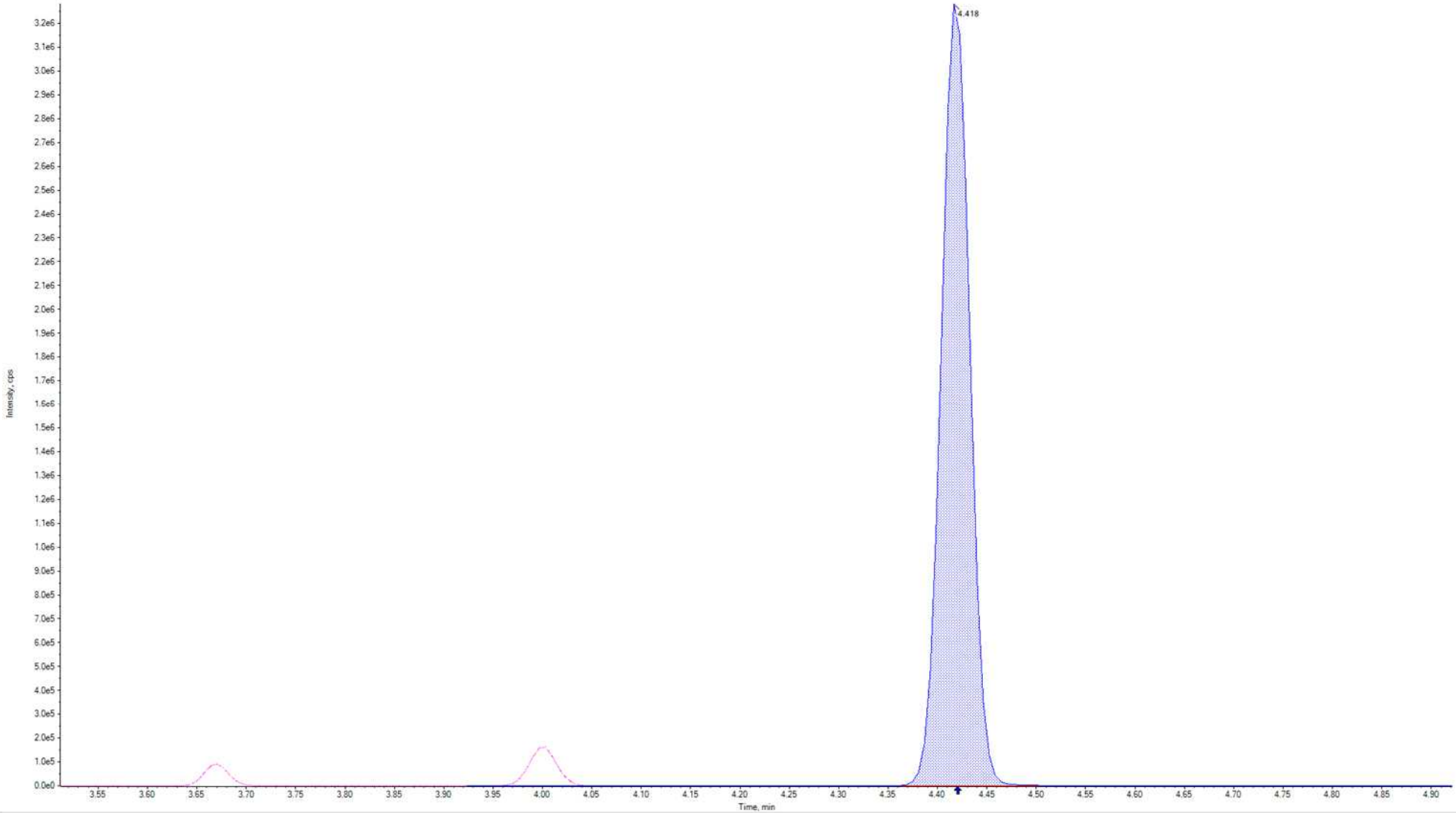
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOS_2
Sample: IA1633STD-62.5 S/N:1419.0 Points Across peak:55



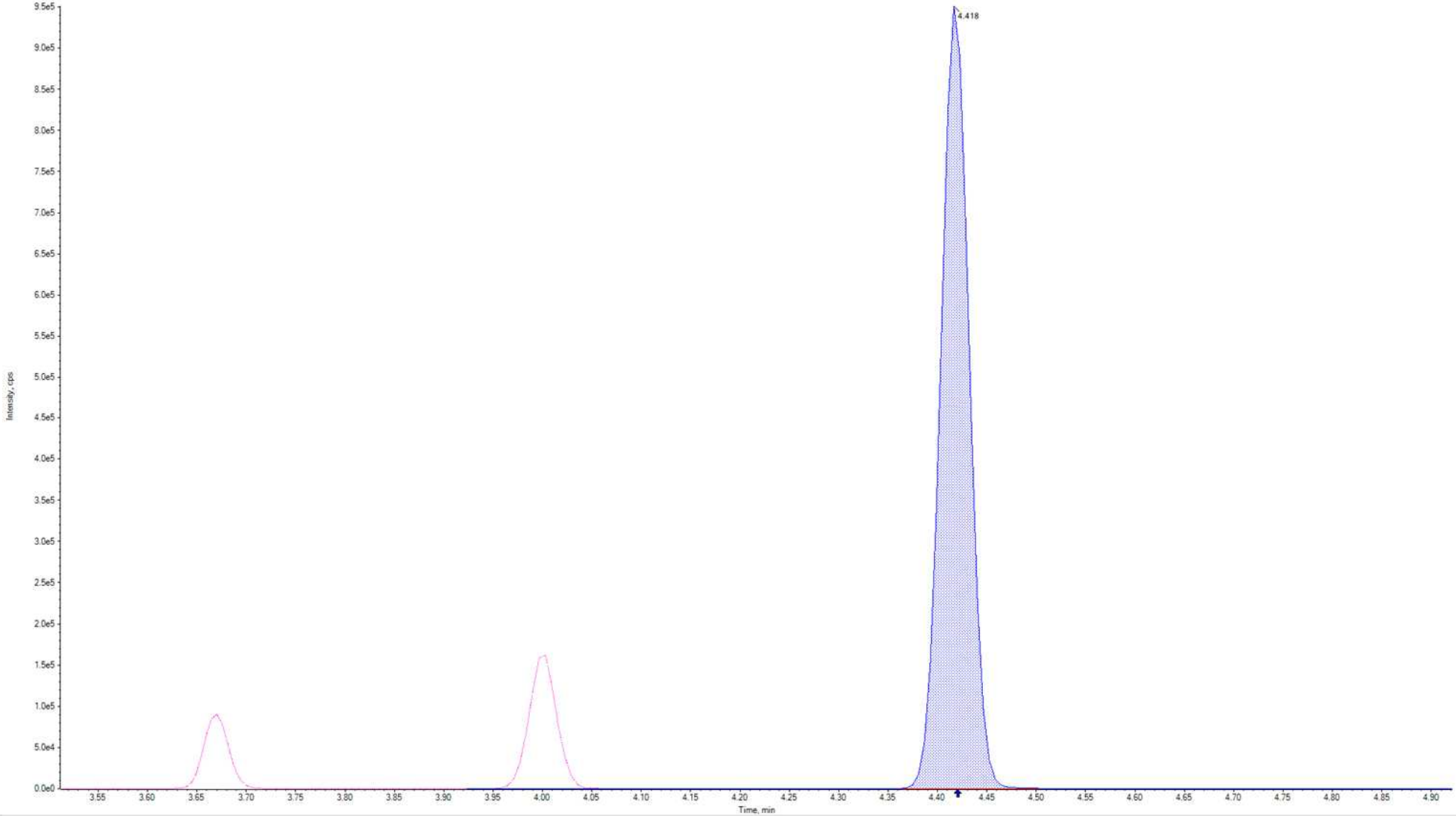
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFNS
Sample: IA1633STD-62.5 S/N:7088.6 Points Across peak:36



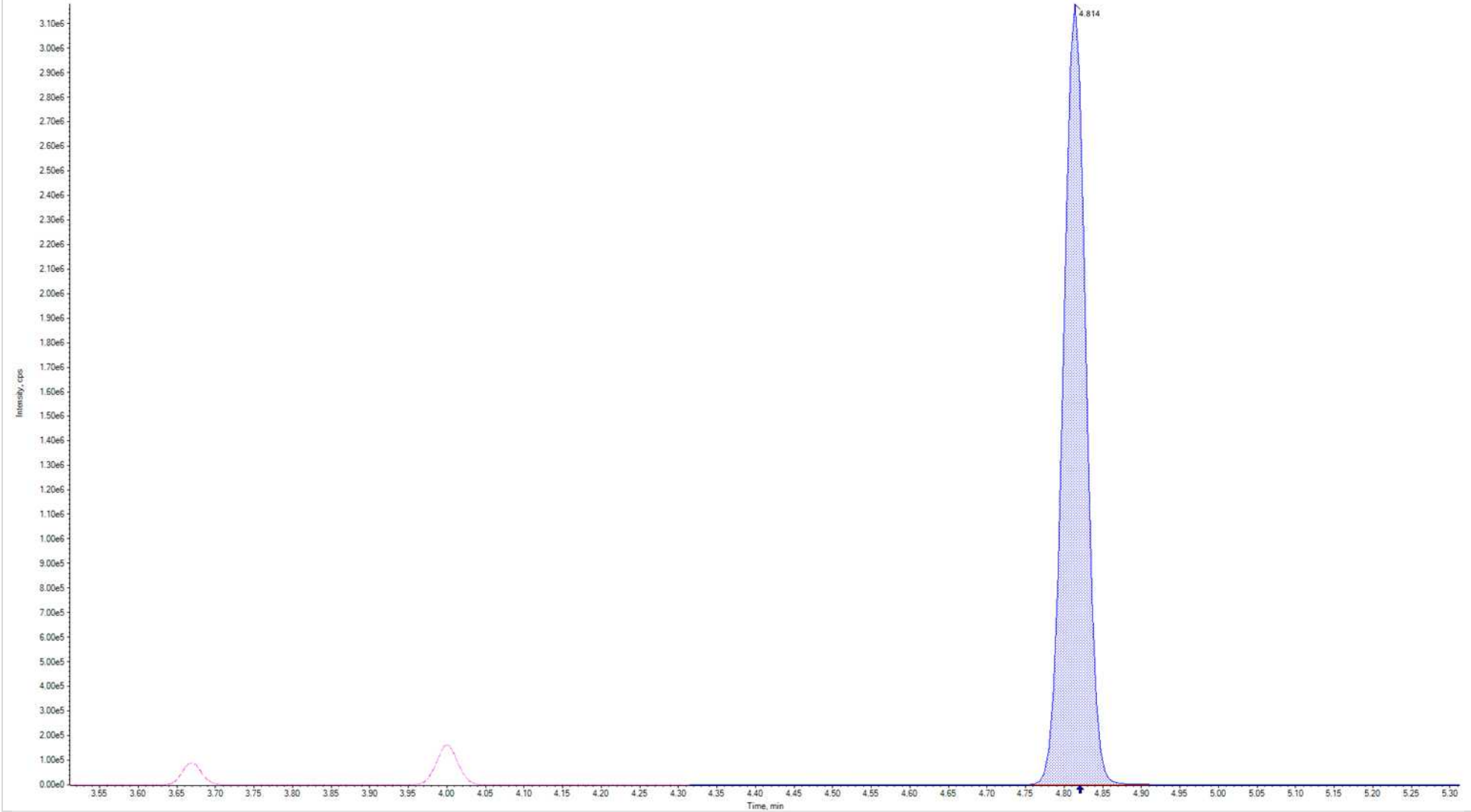
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFNS_2
Sample: IA1633STD-62.5 S/N:7783.0 Points Across peak:30



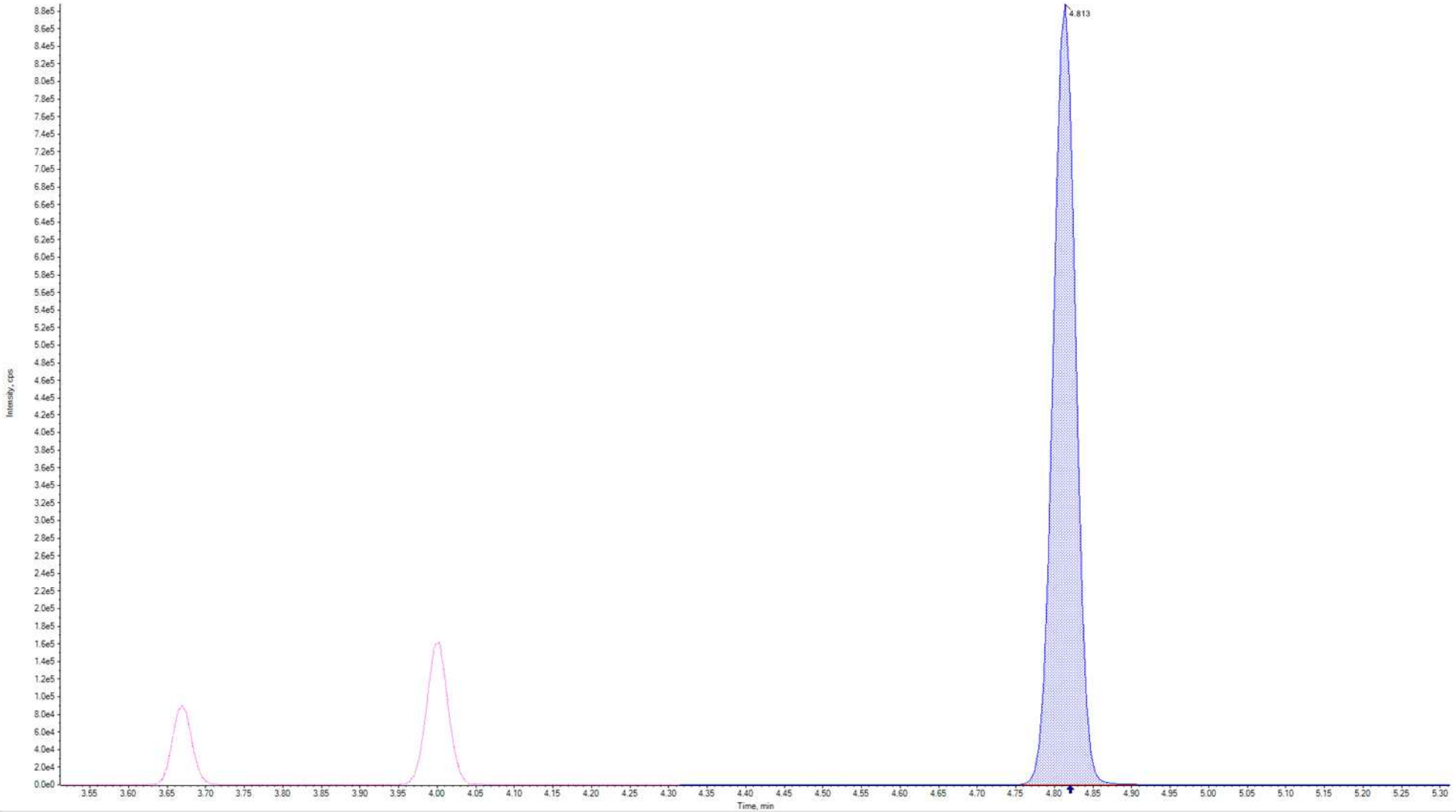
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFDS
Sample: IA1633STD-62.5 S/N:111590.0 Points Across peak:41



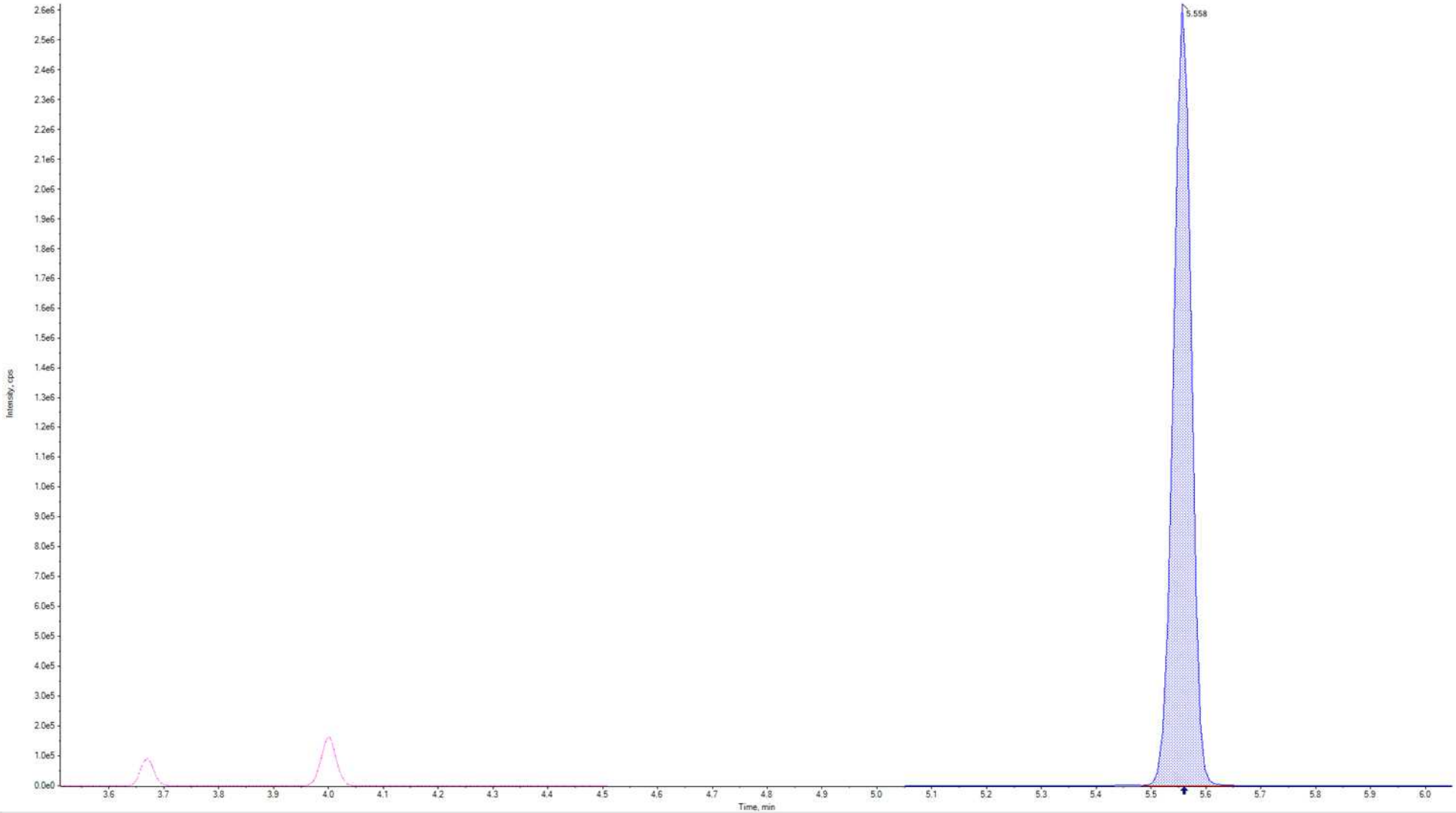
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFDS_2
Sample: IA1633STD-62.5 S/N:11129.9 Points Across peak:32



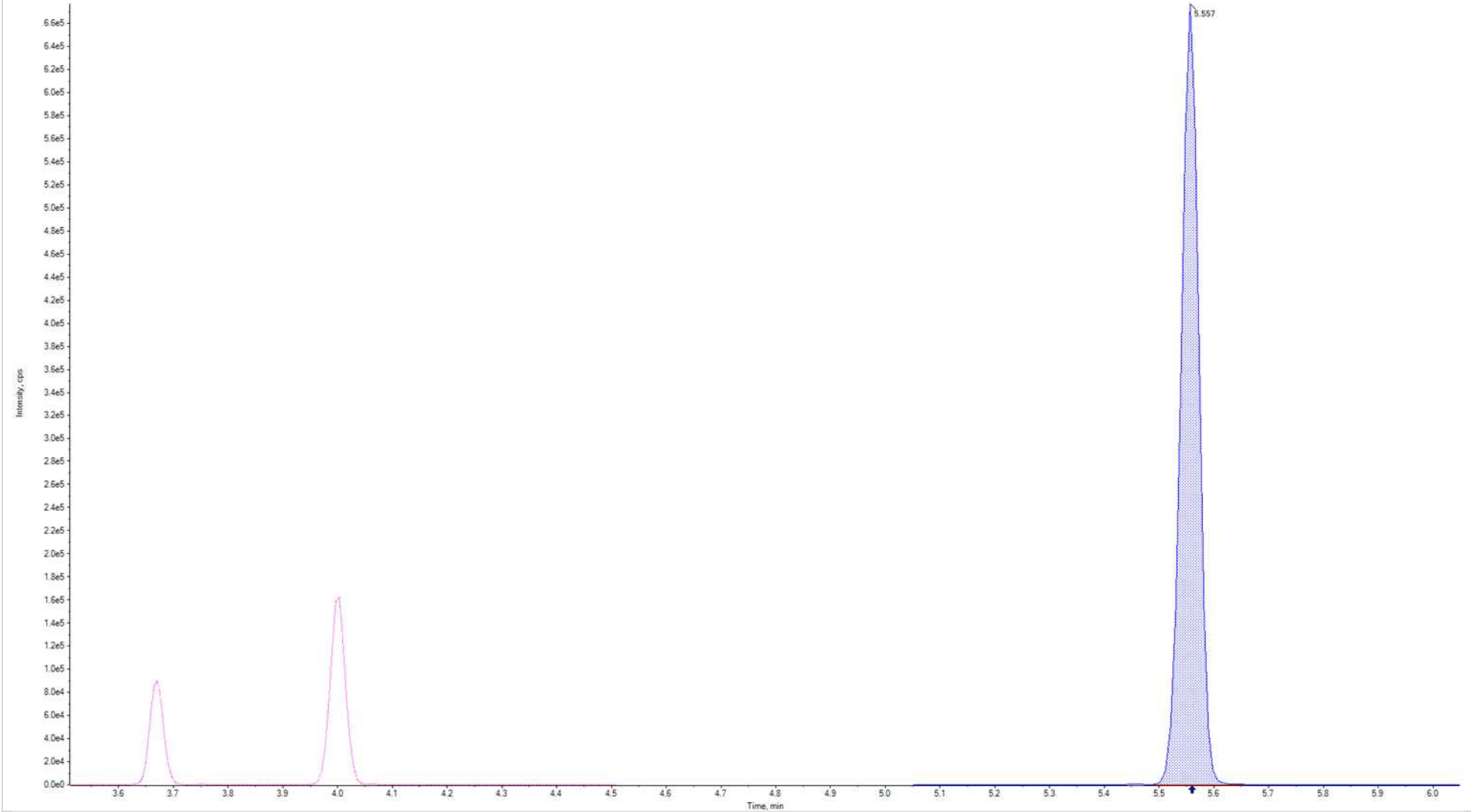
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
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PFDoS
Sample: IA1633STD-62.5 S/N:22934.2 Points Across peak:26



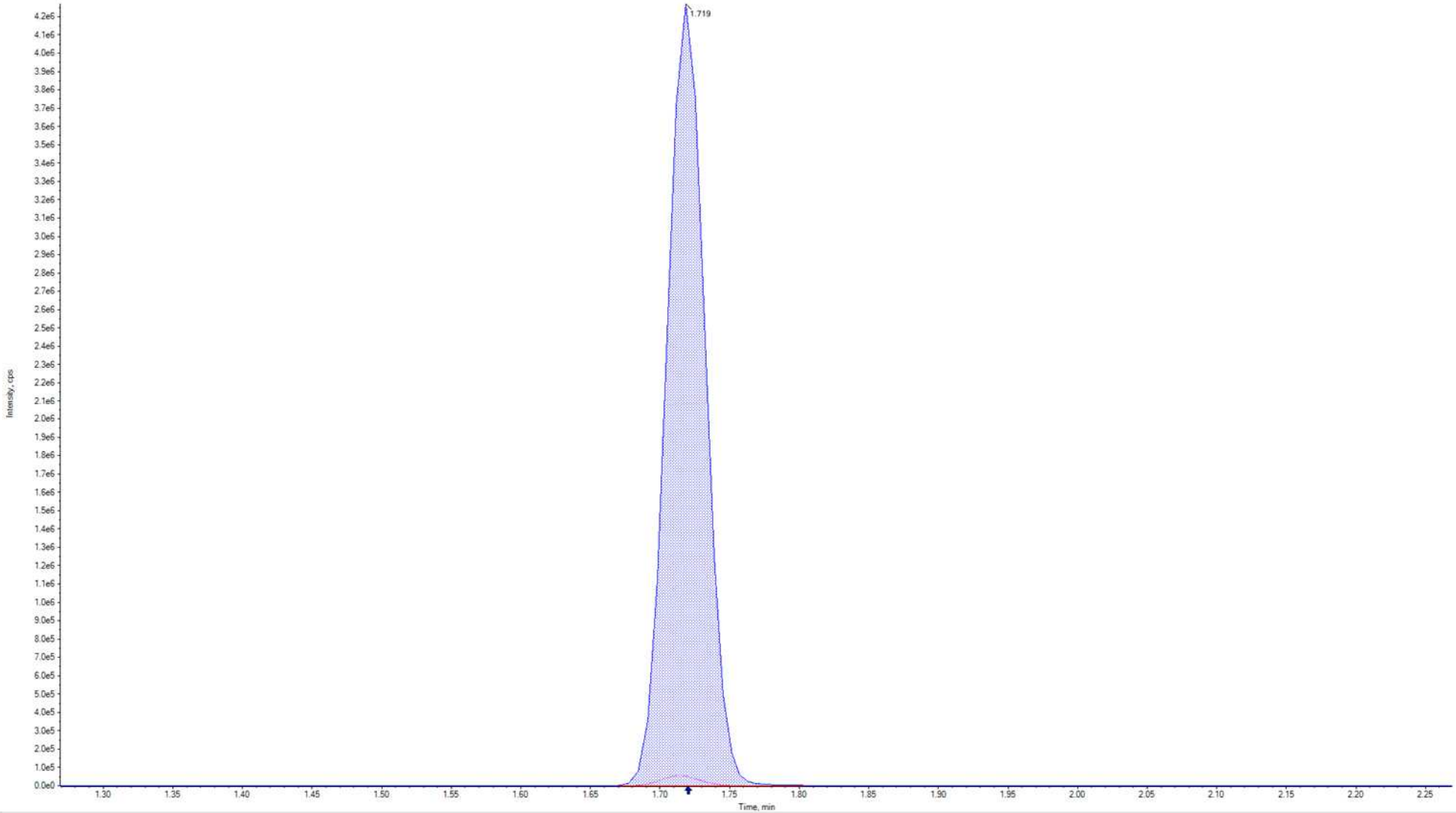
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
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PFDoS_2
Sample: IA1633STD-62.5 S/N:4491.8 Points Across peak:30



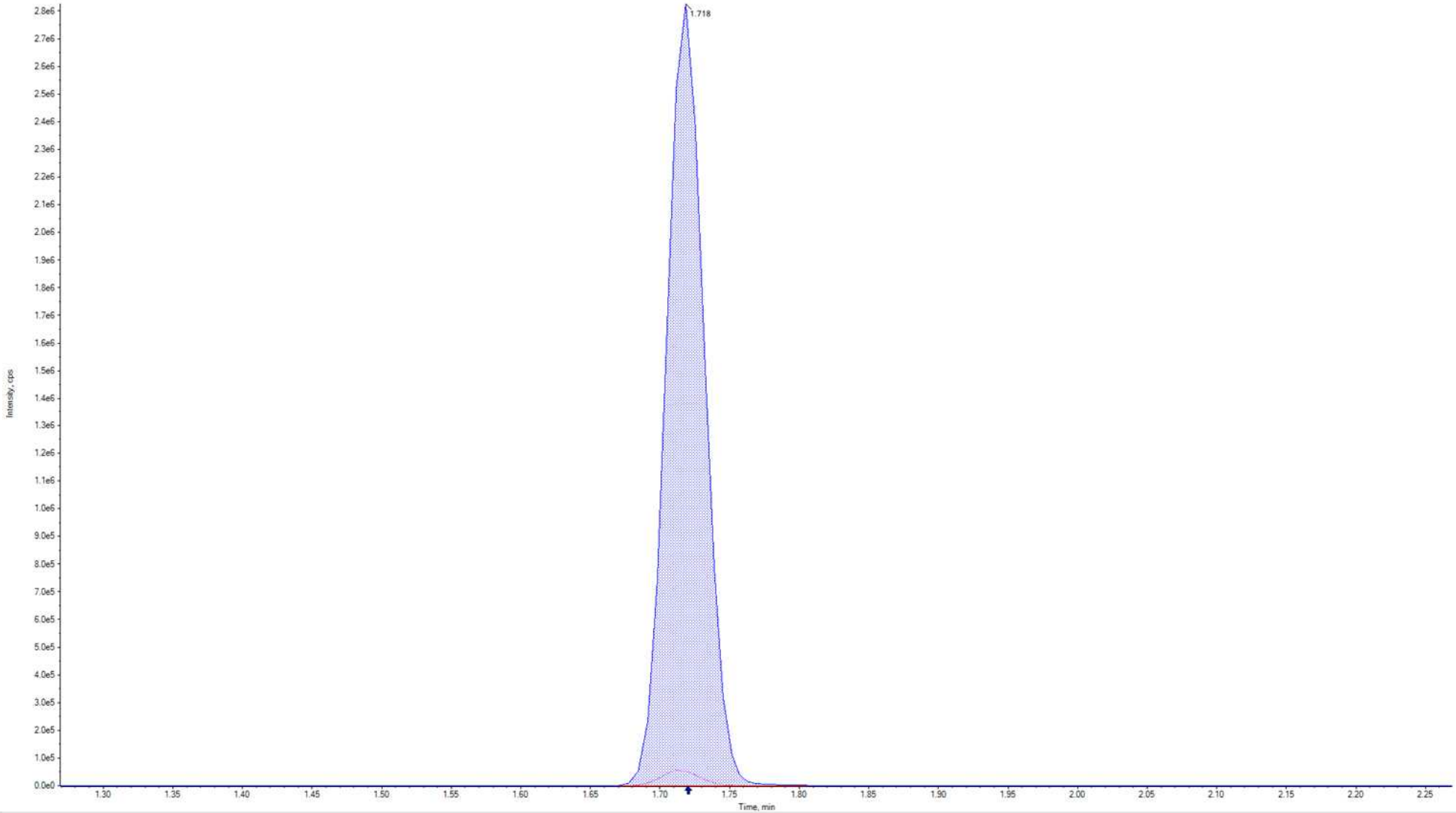
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

4:2FTS
Sample: IA1633STD-62.5 S/N:160505.2 Points Across peak:33



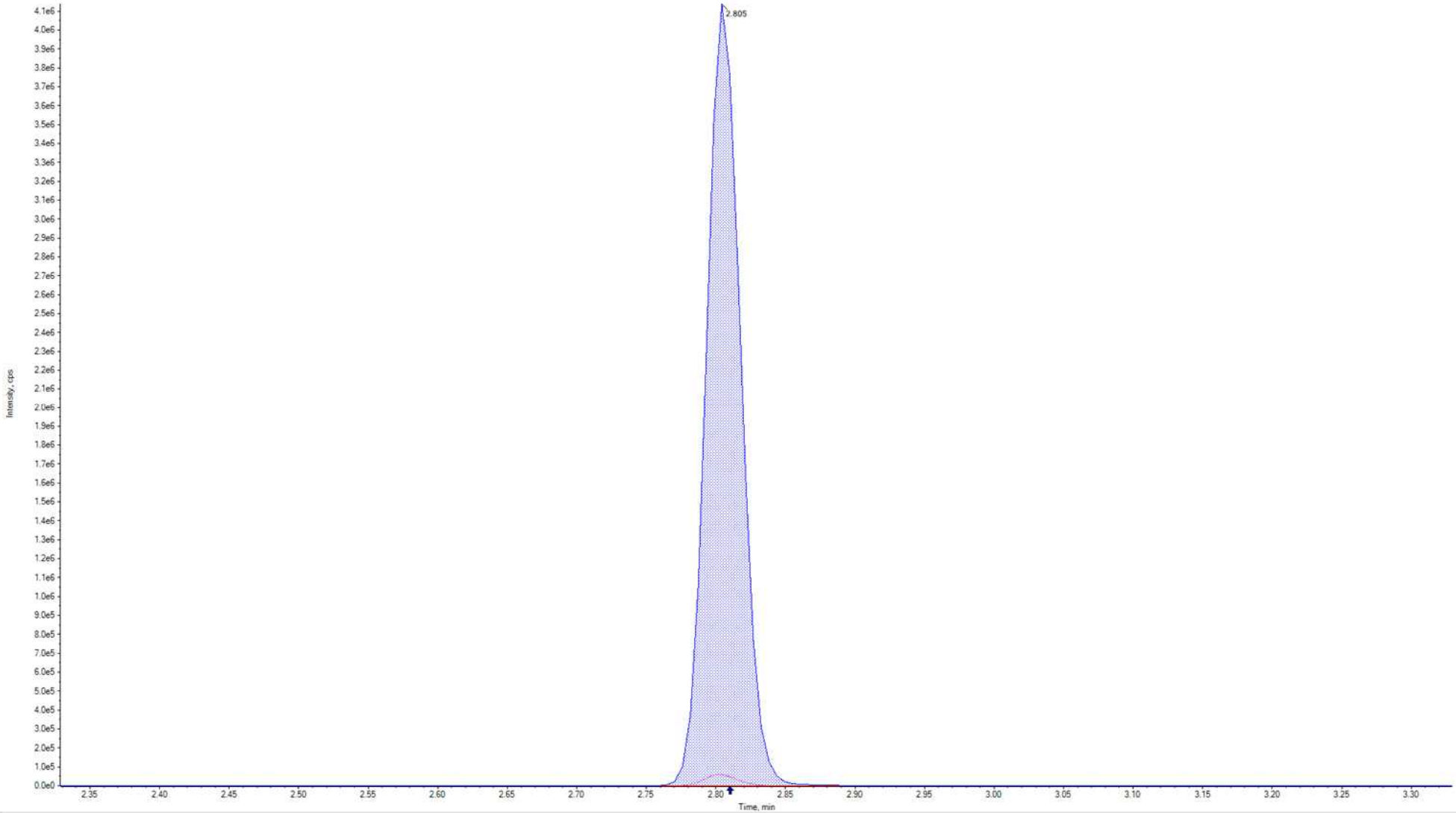
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

4:2FTS_2
Sample: IA1633STD-62.5 S/N:9487.6 Points Across peak:33



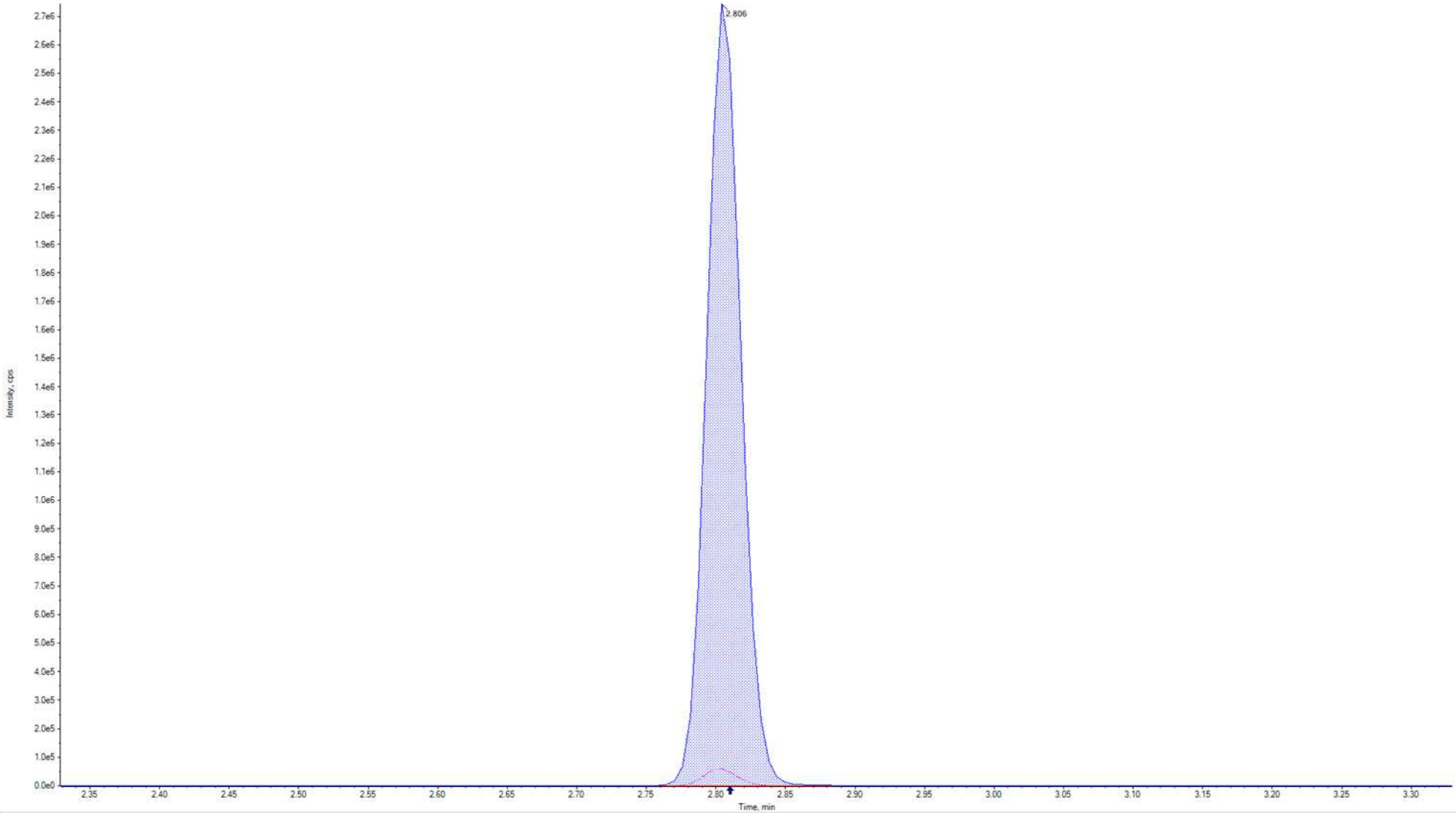
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

6:2FTS
Sample: IA1633STD-62.5 S/N:7252.7 Points Across peak:37



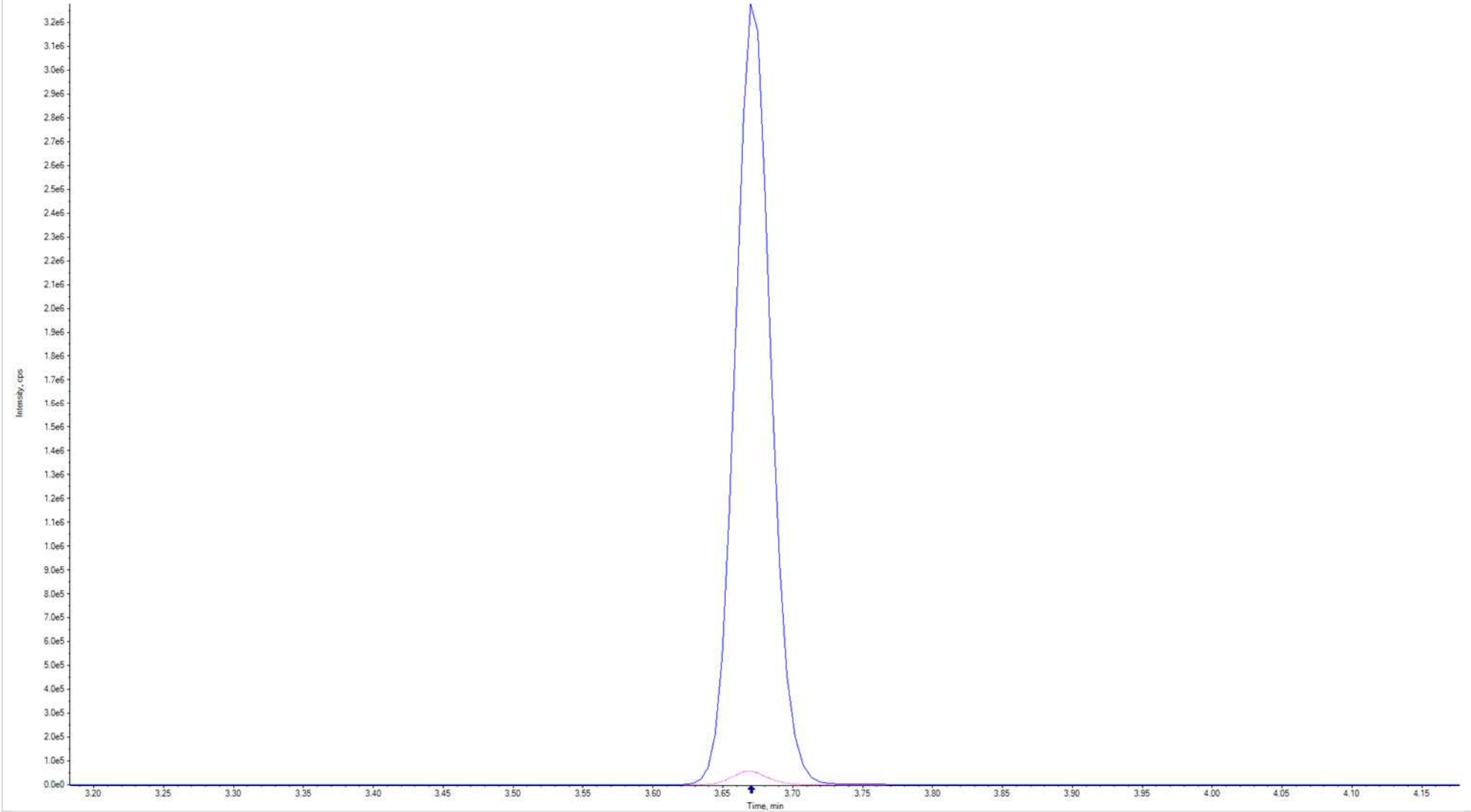
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

6:2FTS_2
Sample: IA1633STD-62.5 S/N:8030.3 Points Across peak:32



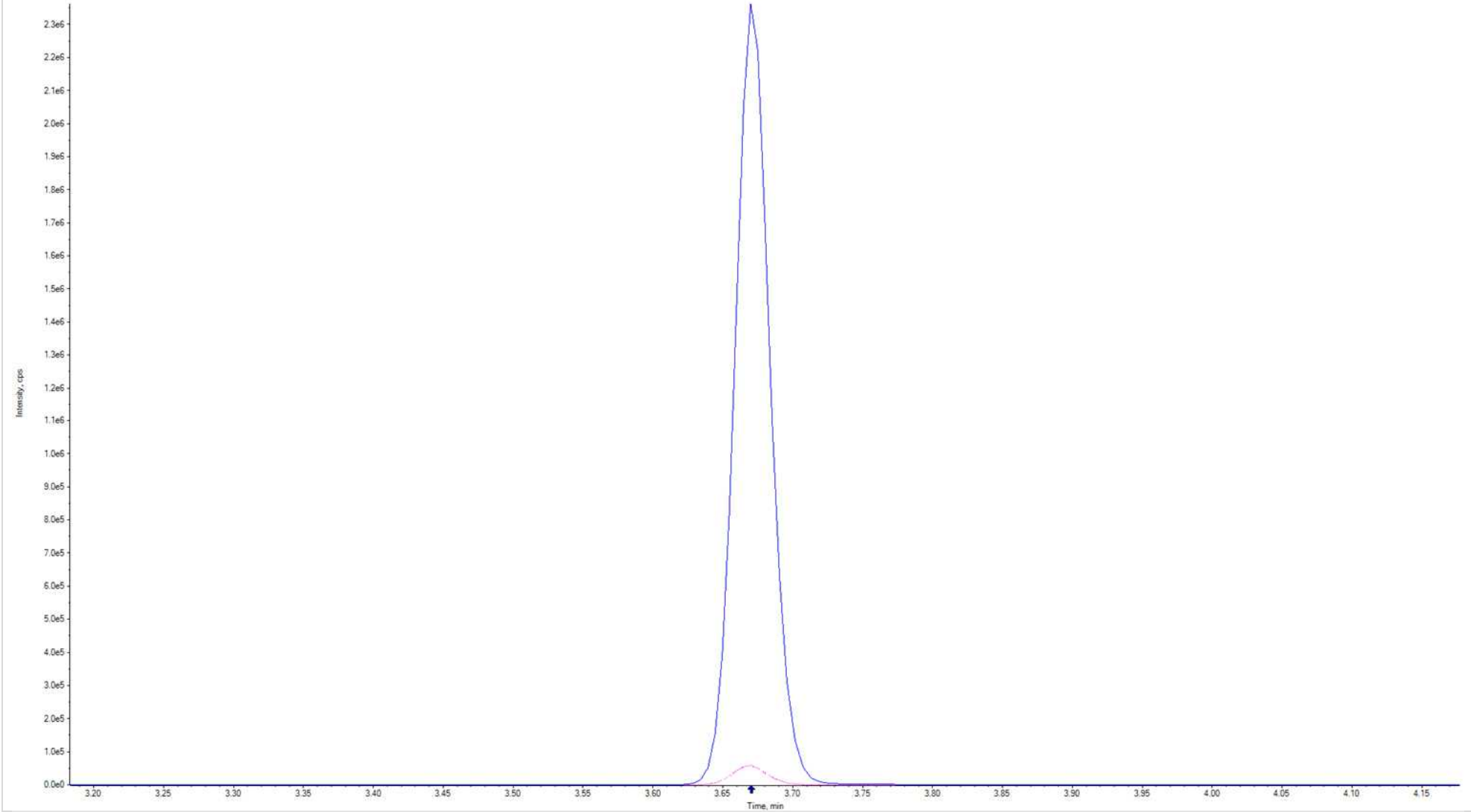
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

8:2FTS
Sample: IA1633STD-62.5 S/N:N/A Points Across peak:N/A



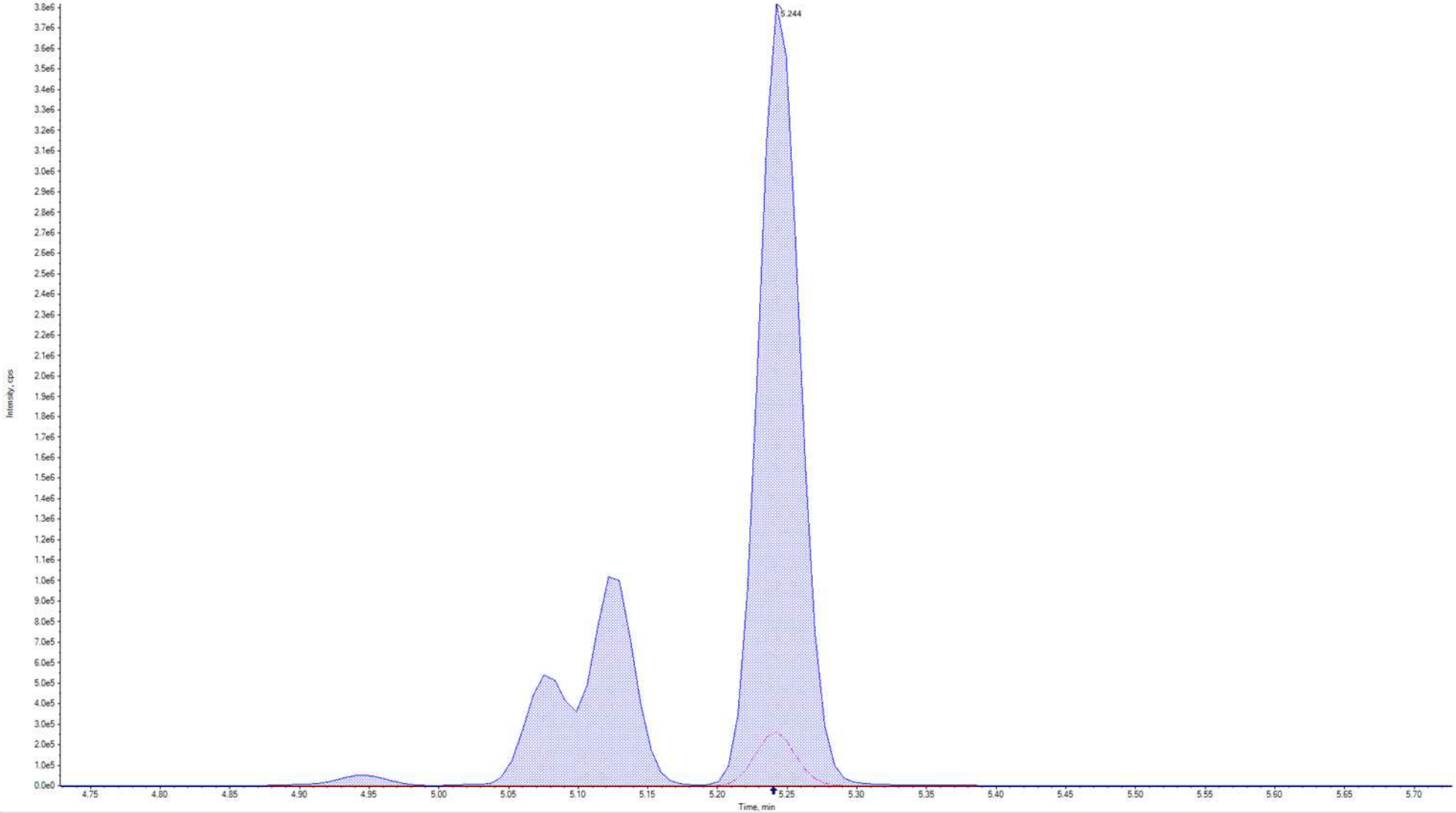
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

8:2FTS_2
Sample: IA1633STD-62.5 S/N:N/A Points Across peak:N/A



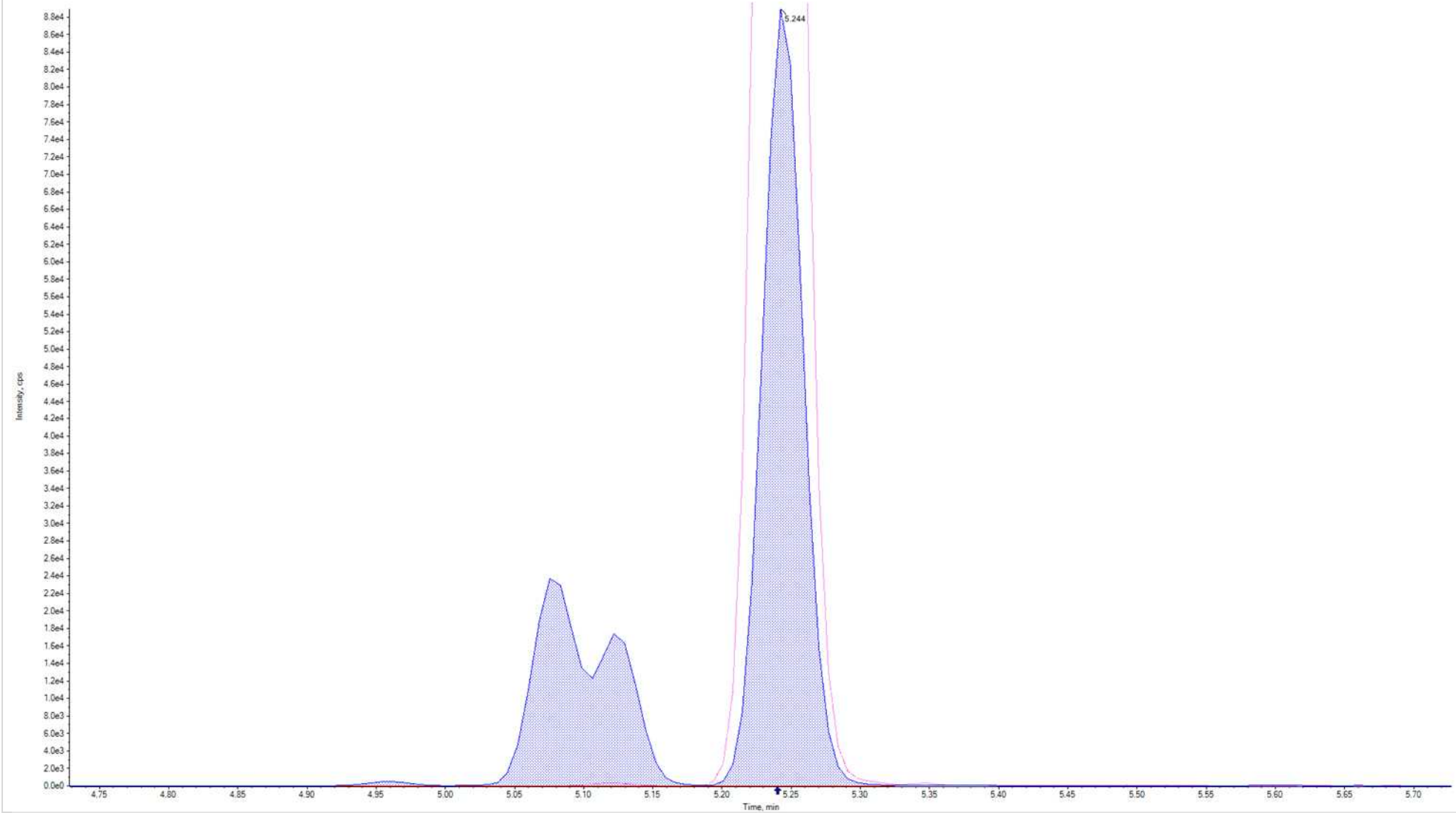
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFOSA
Sample: IA1633STD-62.5 S/N:364.6 Points Across peak:81



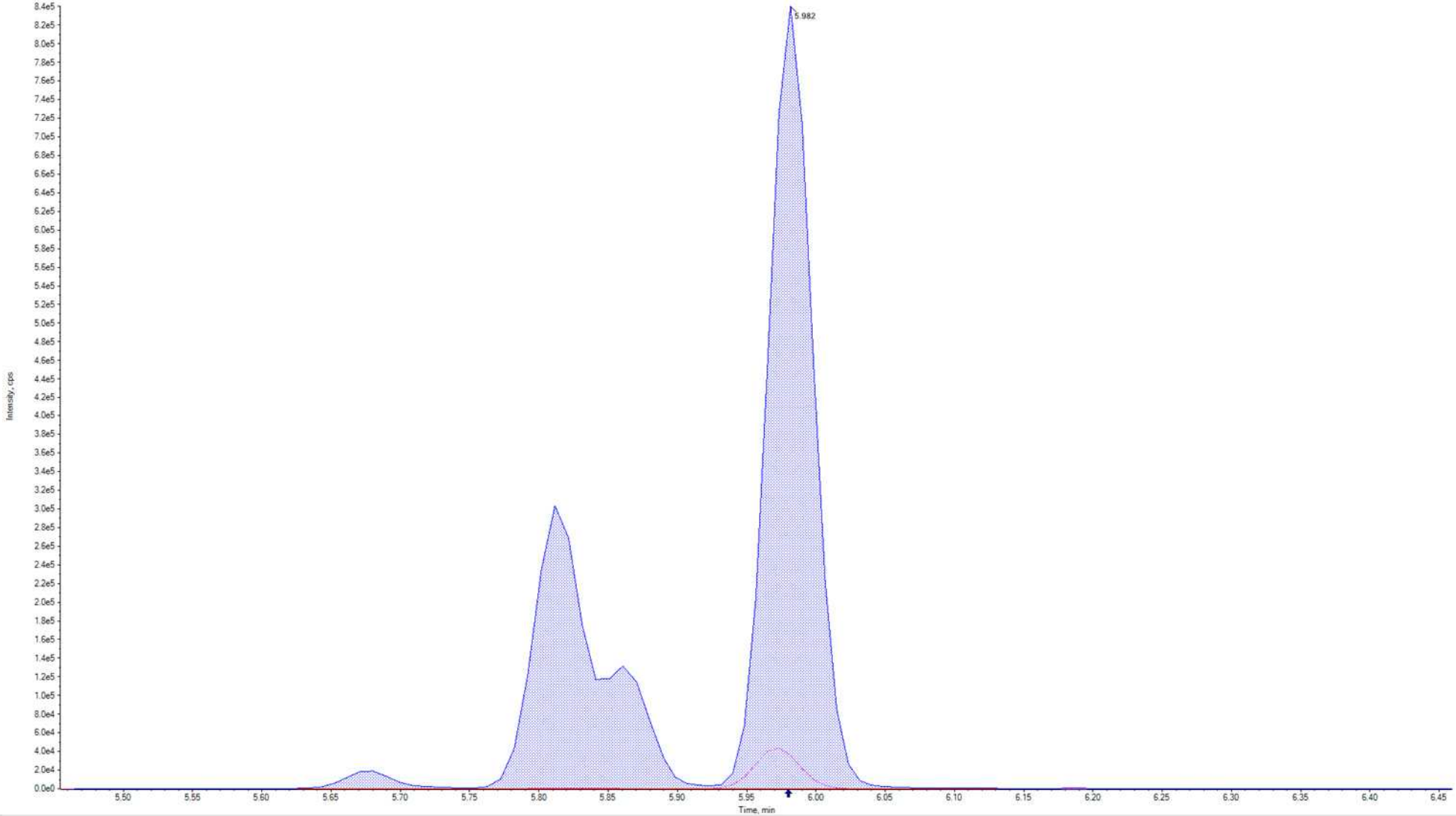
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFOSA_2
Sample: IA1633STD-62.5 S/N:448.0 Points Across peak:61



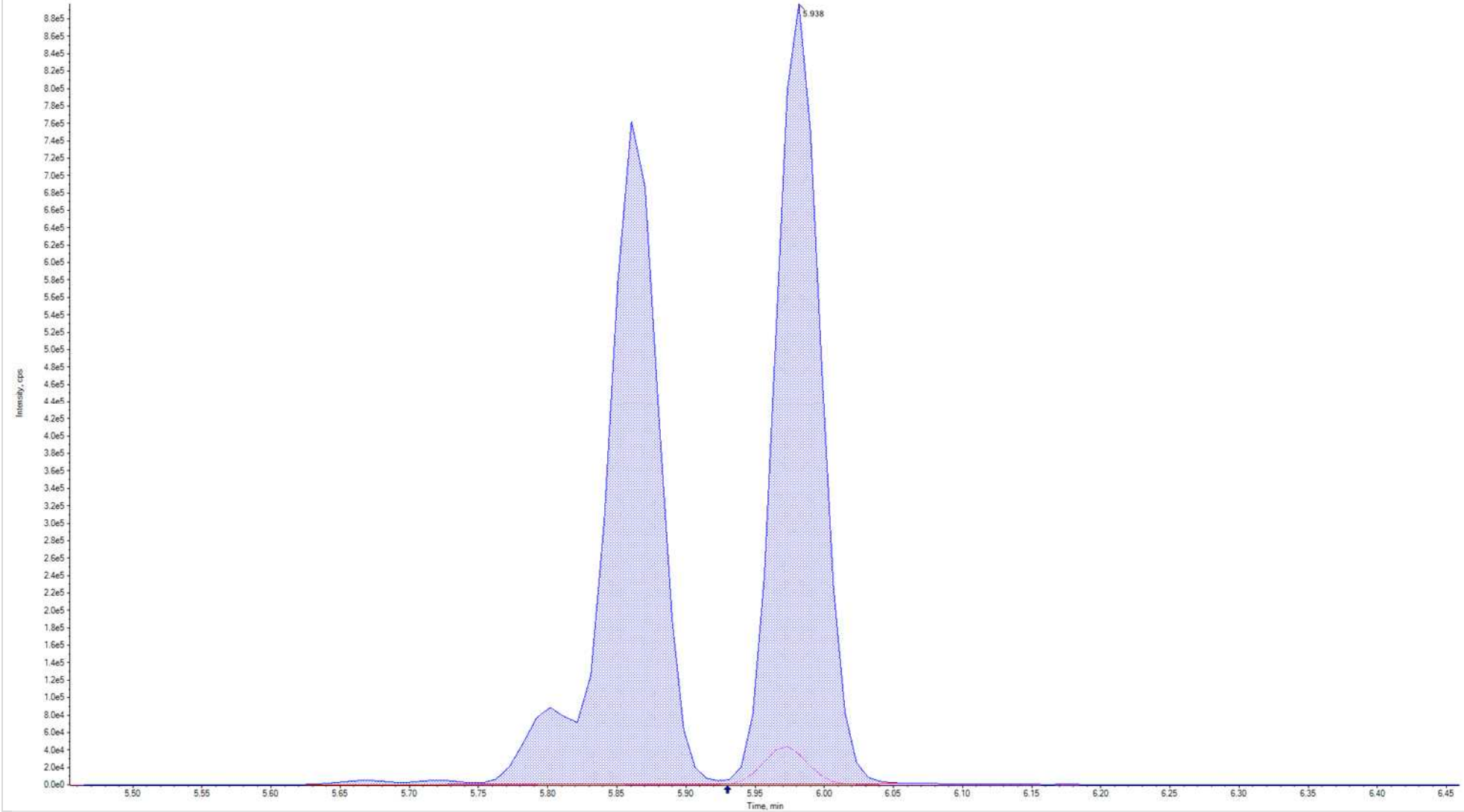
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSA
Sample: IA1633STD-62.5 S/N:342.4 Points Across peak:65



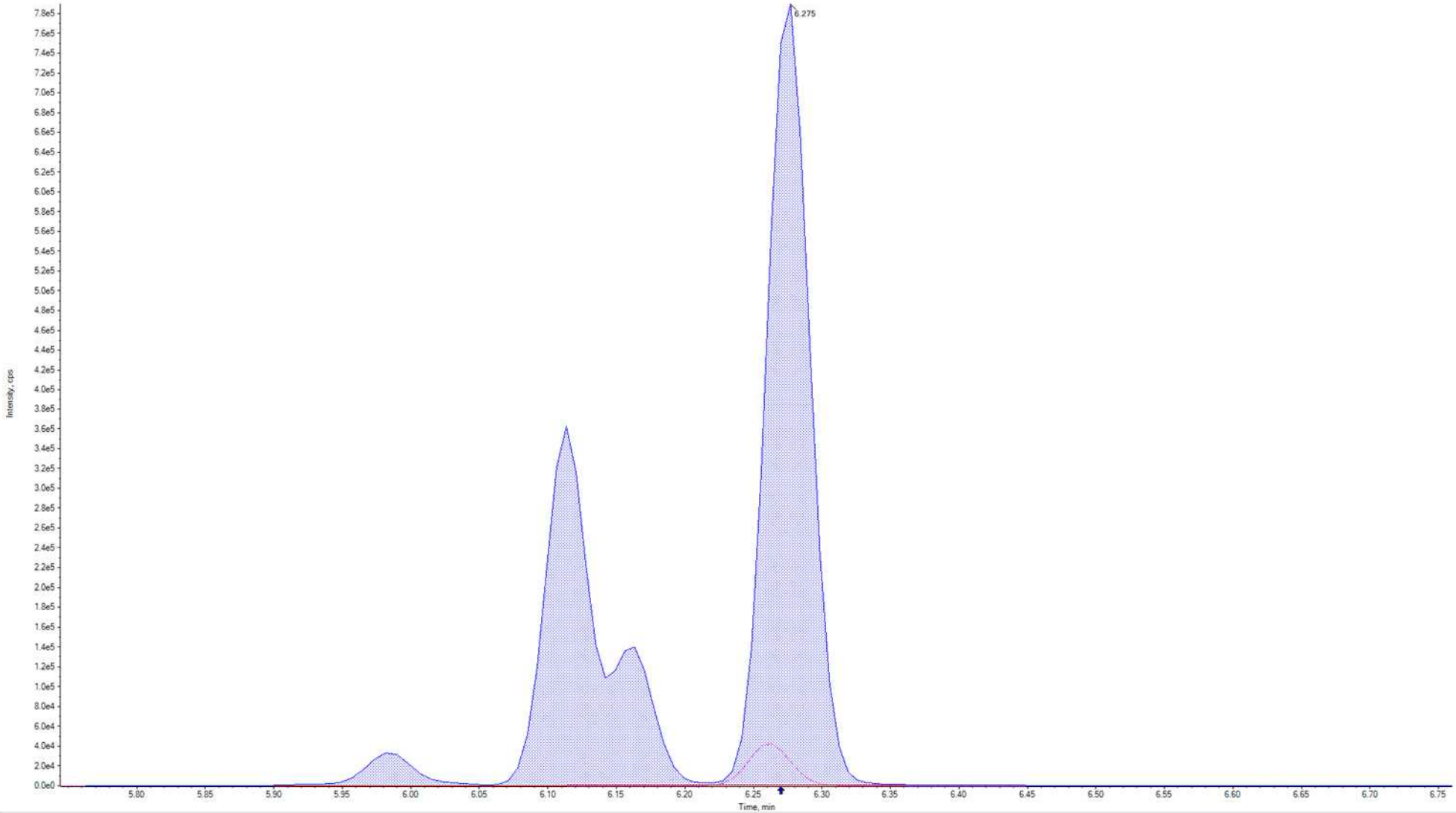
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSA_2
Sample: IA1633STD-62.5 S/N:295.2 Points Across peak:53



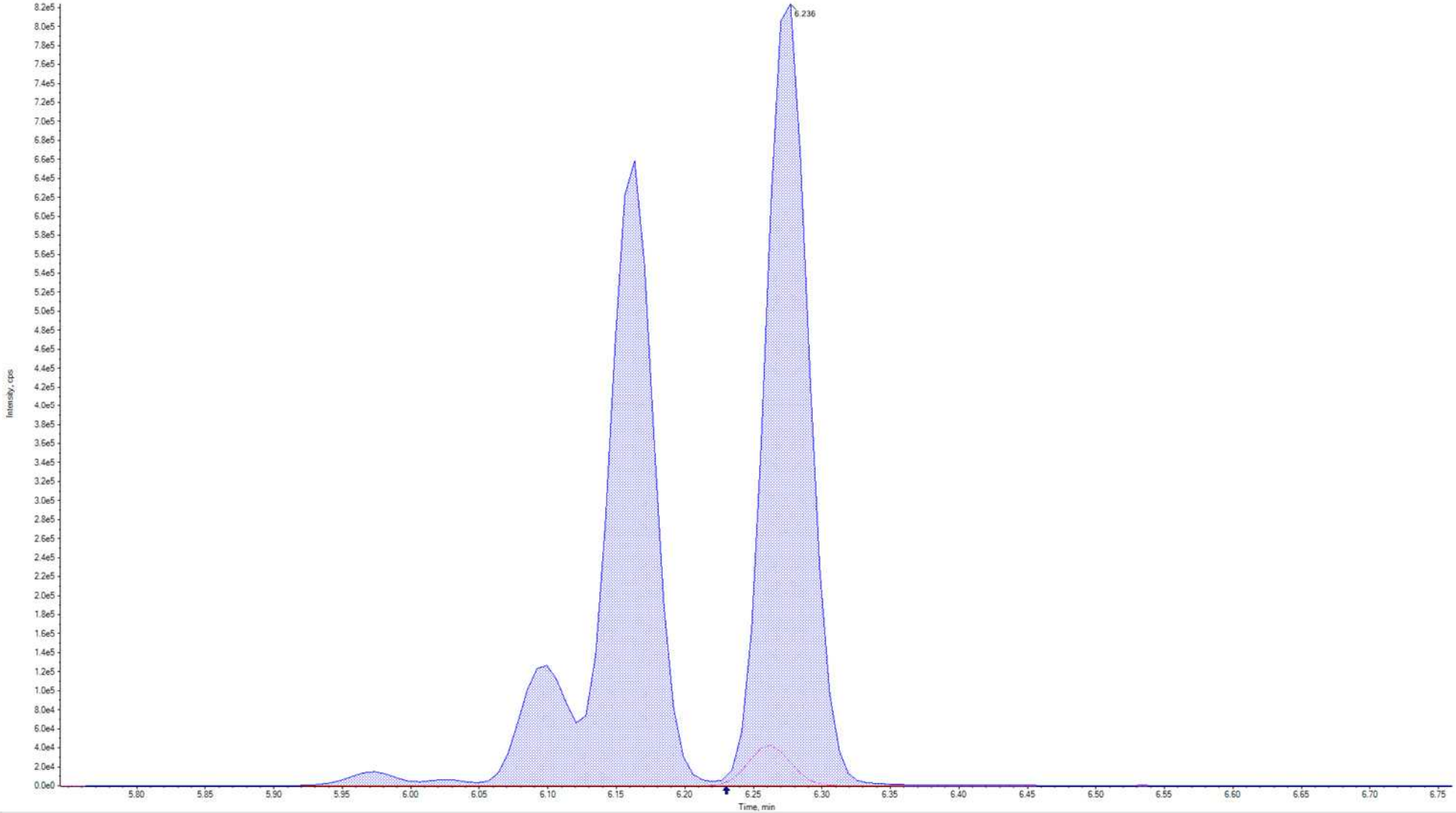
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSA
Sample: IA1633STD-62.5 S/N:707.0 Points Across peak:71



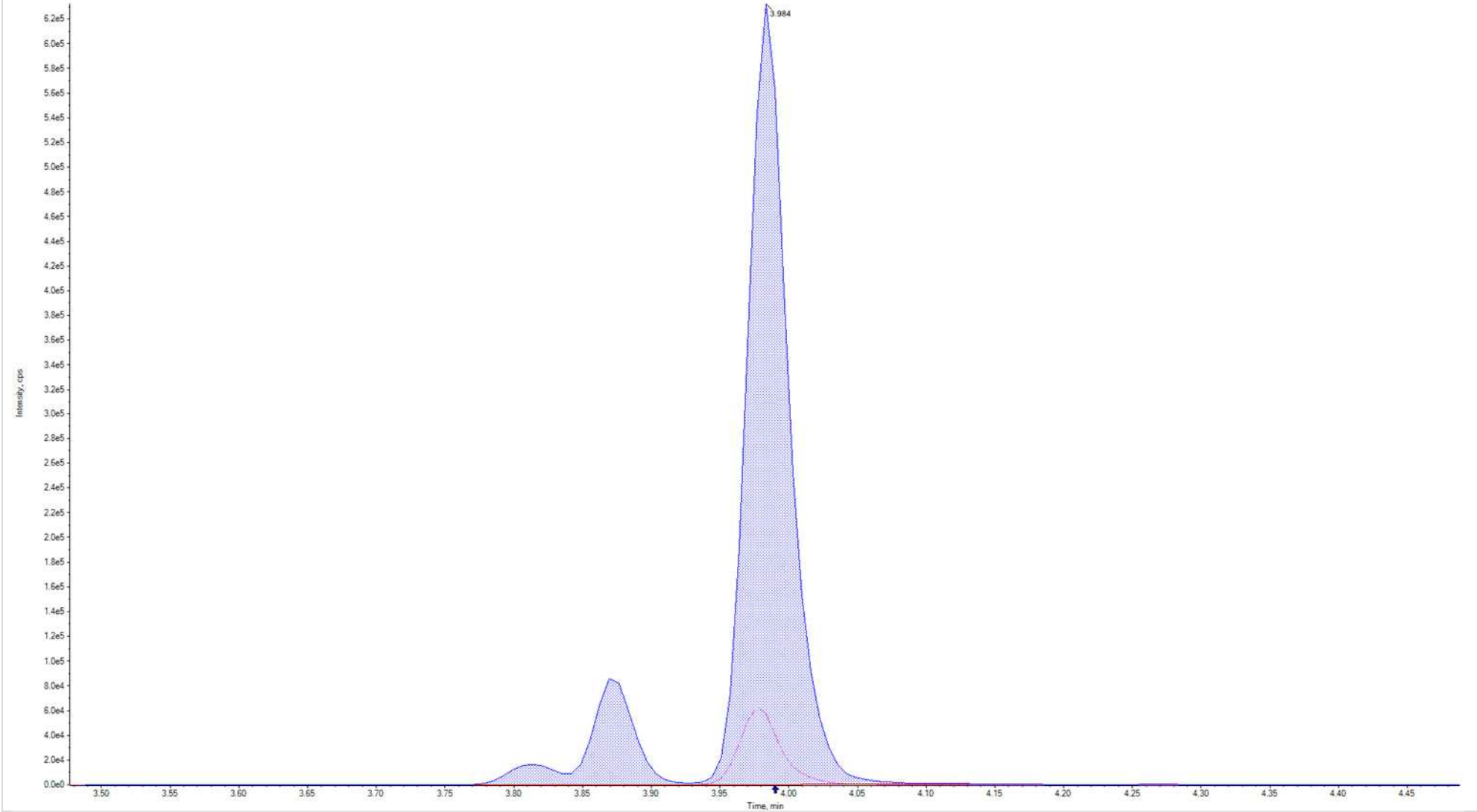
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Alpha Analytical LLC
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Generated: 3/3/2025 3:16:24 PM

NEtFOSA_2
Sample: IA1633STD-62.5 S/N:741.4 Points Across peak:76



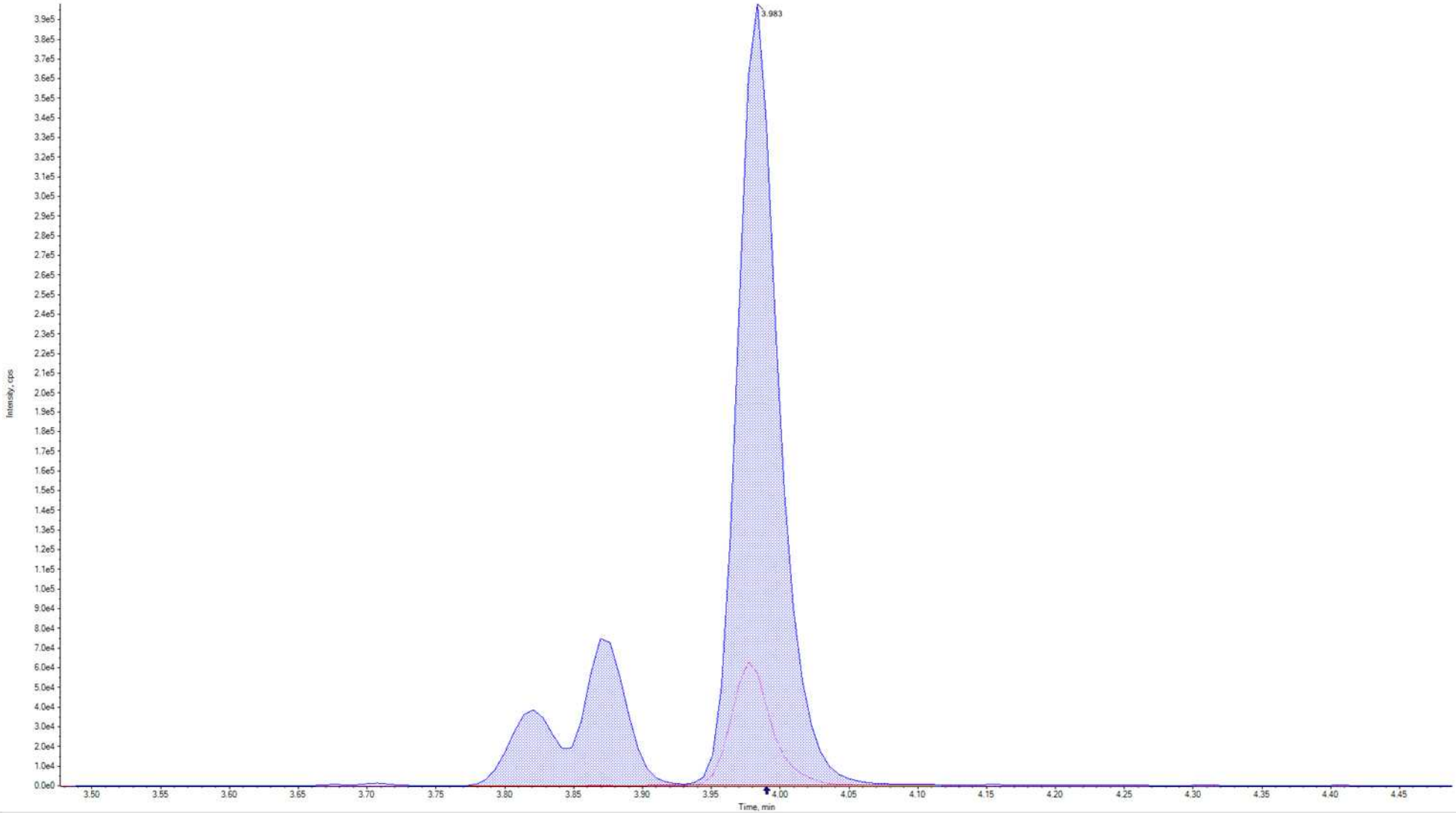
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSAA
Sample: IA1633STD-62.5 S/N:652.1 Points Across peak:61



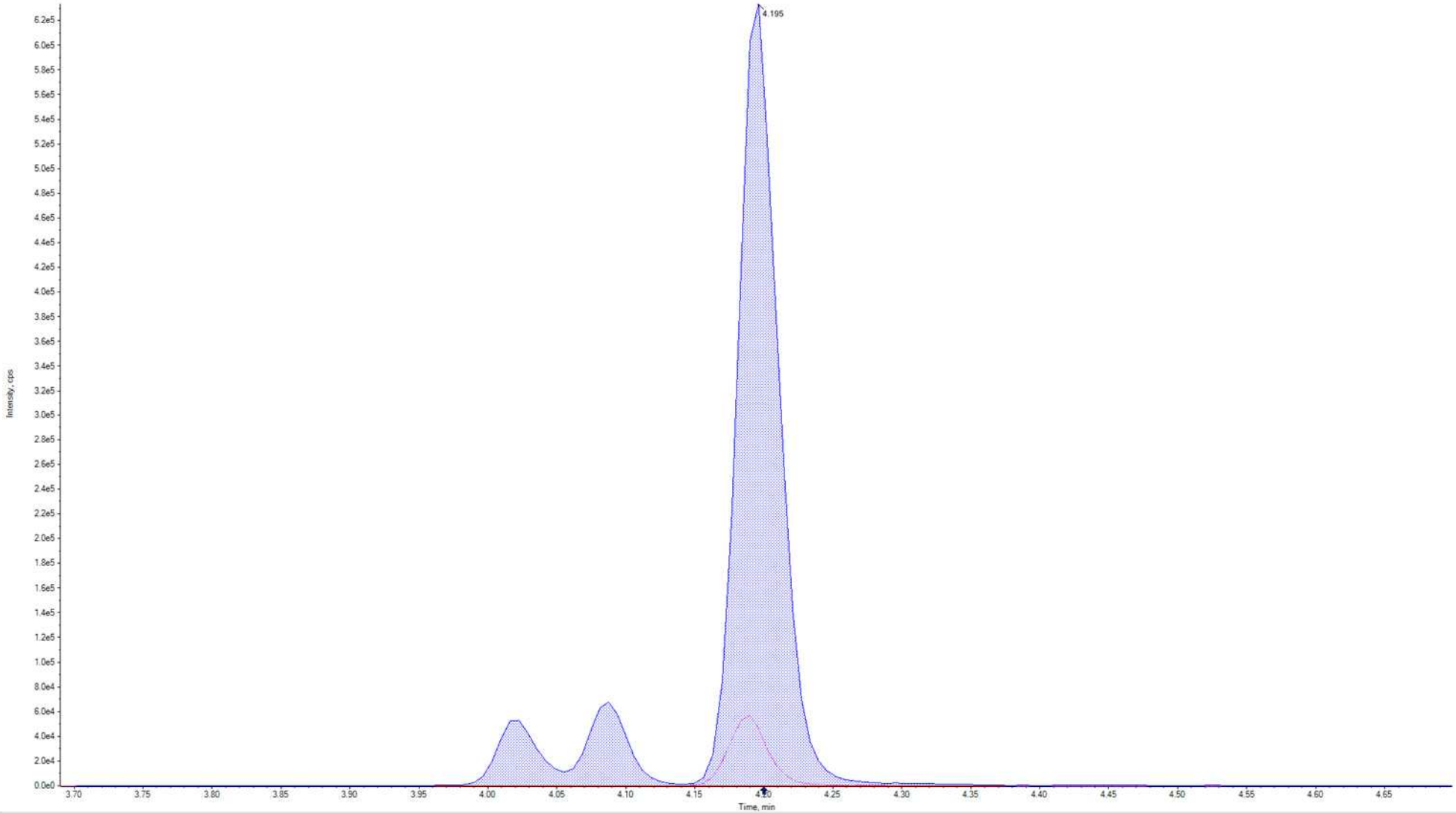
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Alpha Analytical LLC
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NMeFOSAA_2
Sample: IA1633STD-62.5 S/N:557.3 Points Across peak:58



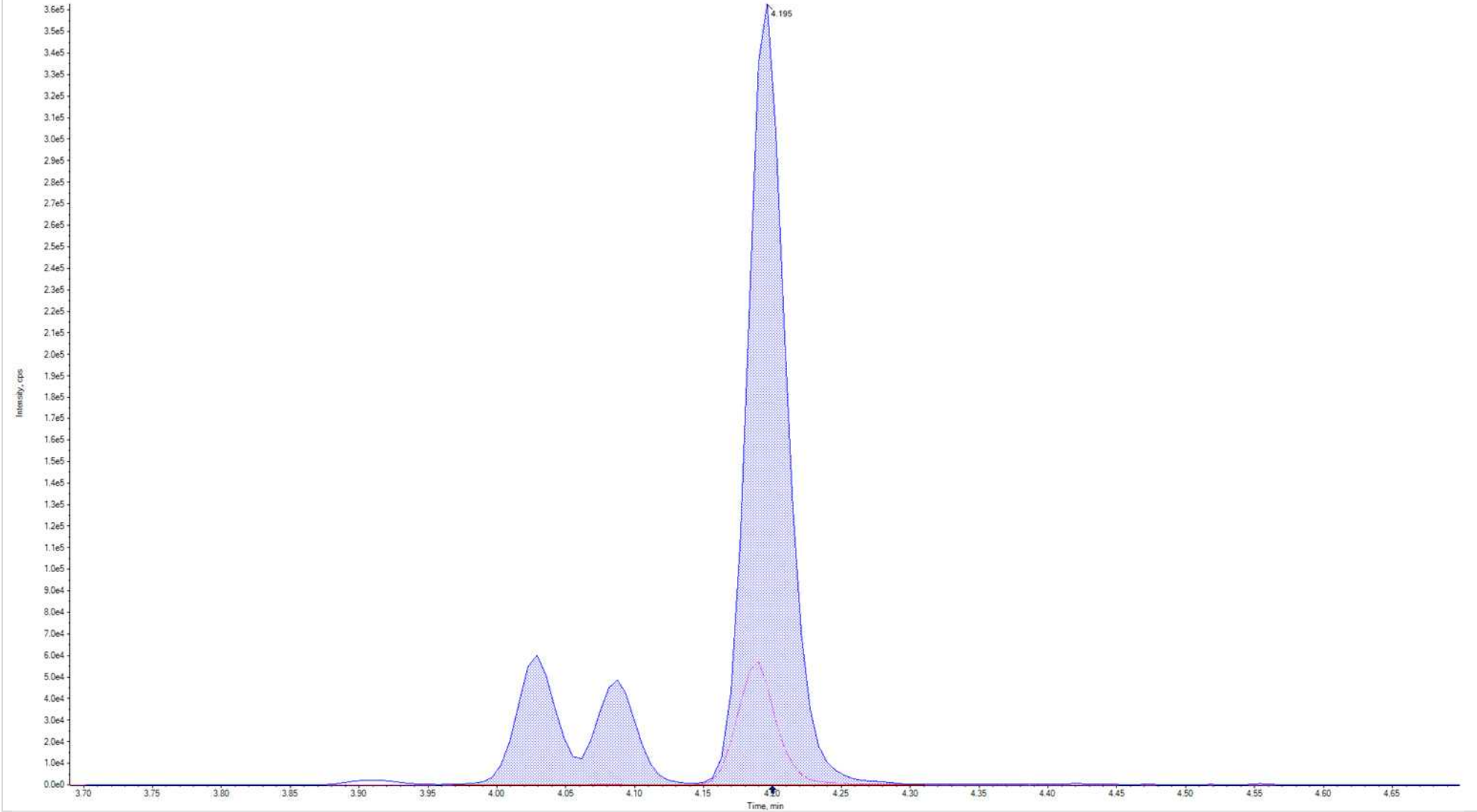
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSAA
Sample: IA1633STD-62.5 S/N:529.7 Points Across peak:68



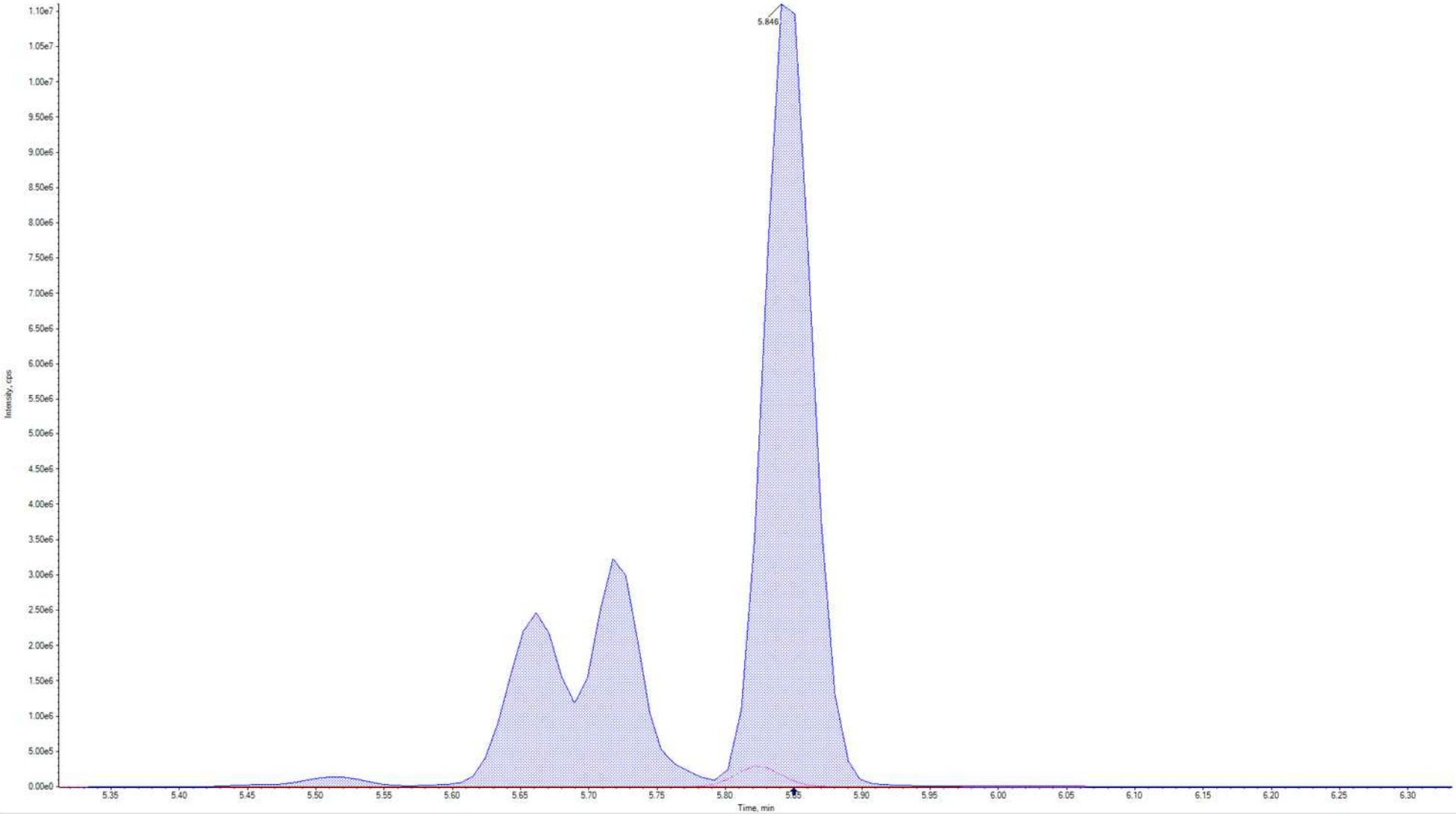
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSAA_2
Sample: IA1633STD-62.5 S/N:458.1 Points Across peak:56



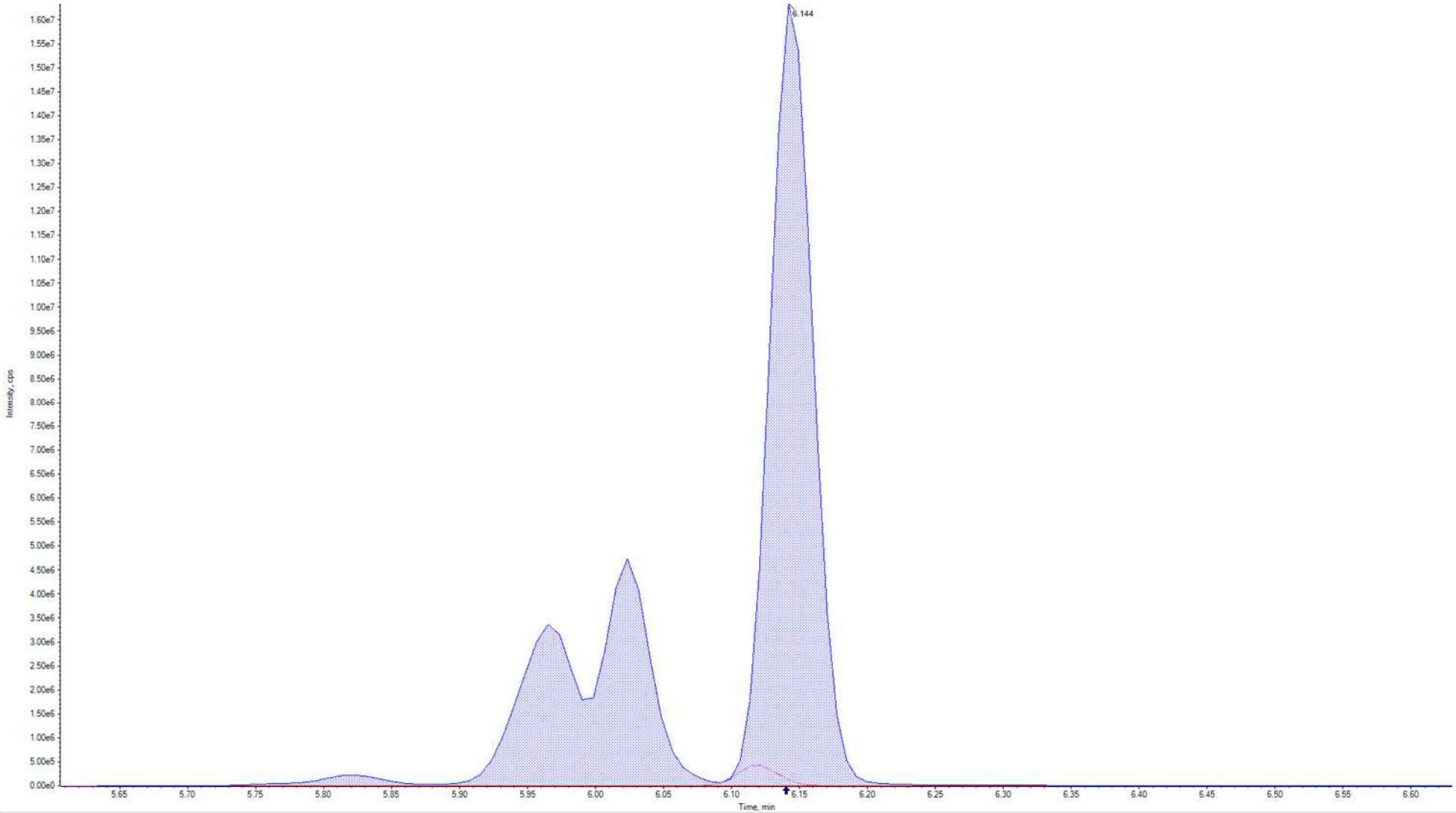
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NMeFOSE
Sample: IA1633STD-62.5 S/N:225.5 Points Across peak:71



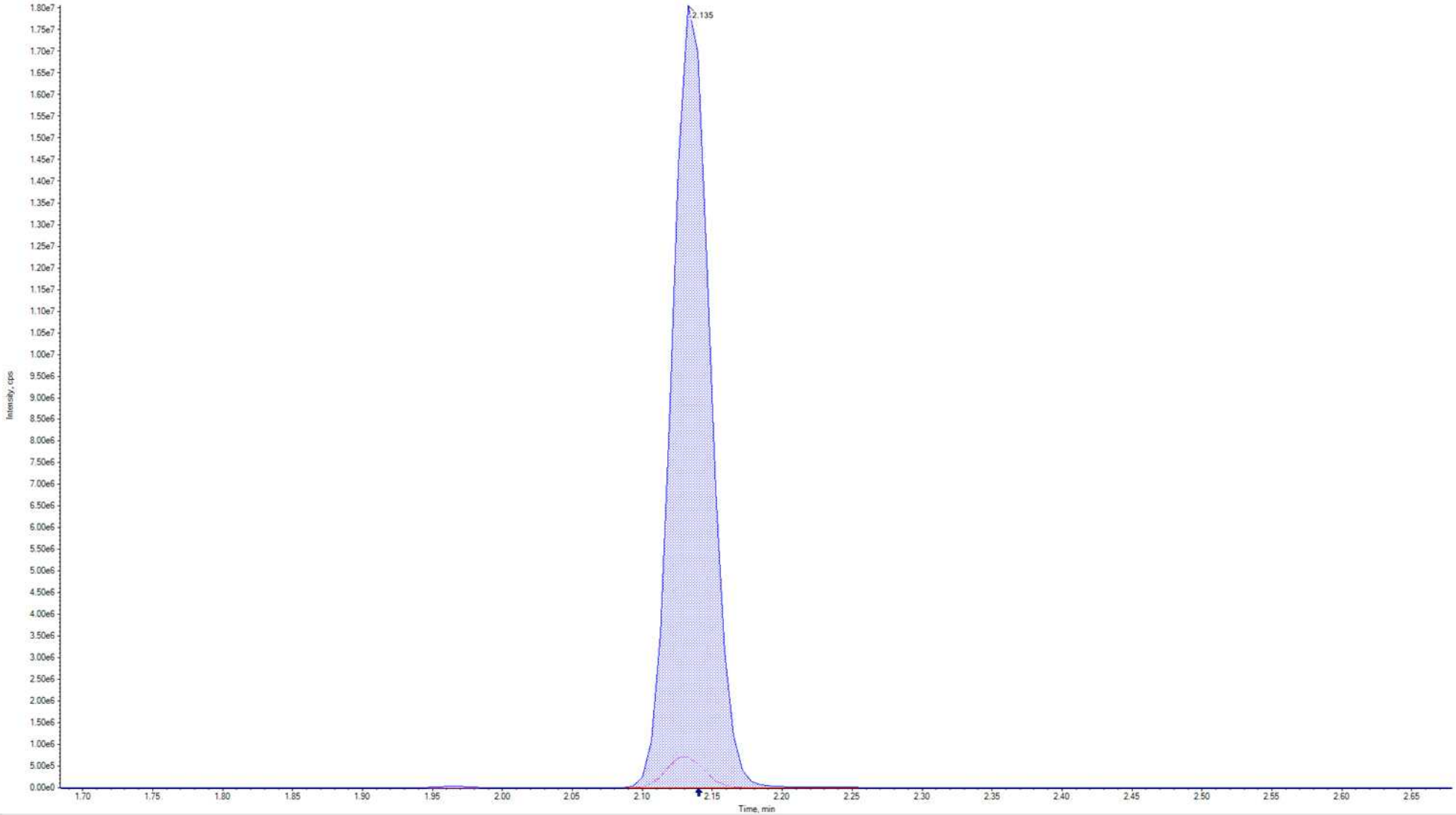
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

NEtFOSE
Sample: IA1633STD-62.5 S/N:375.5 Points Across peak:80



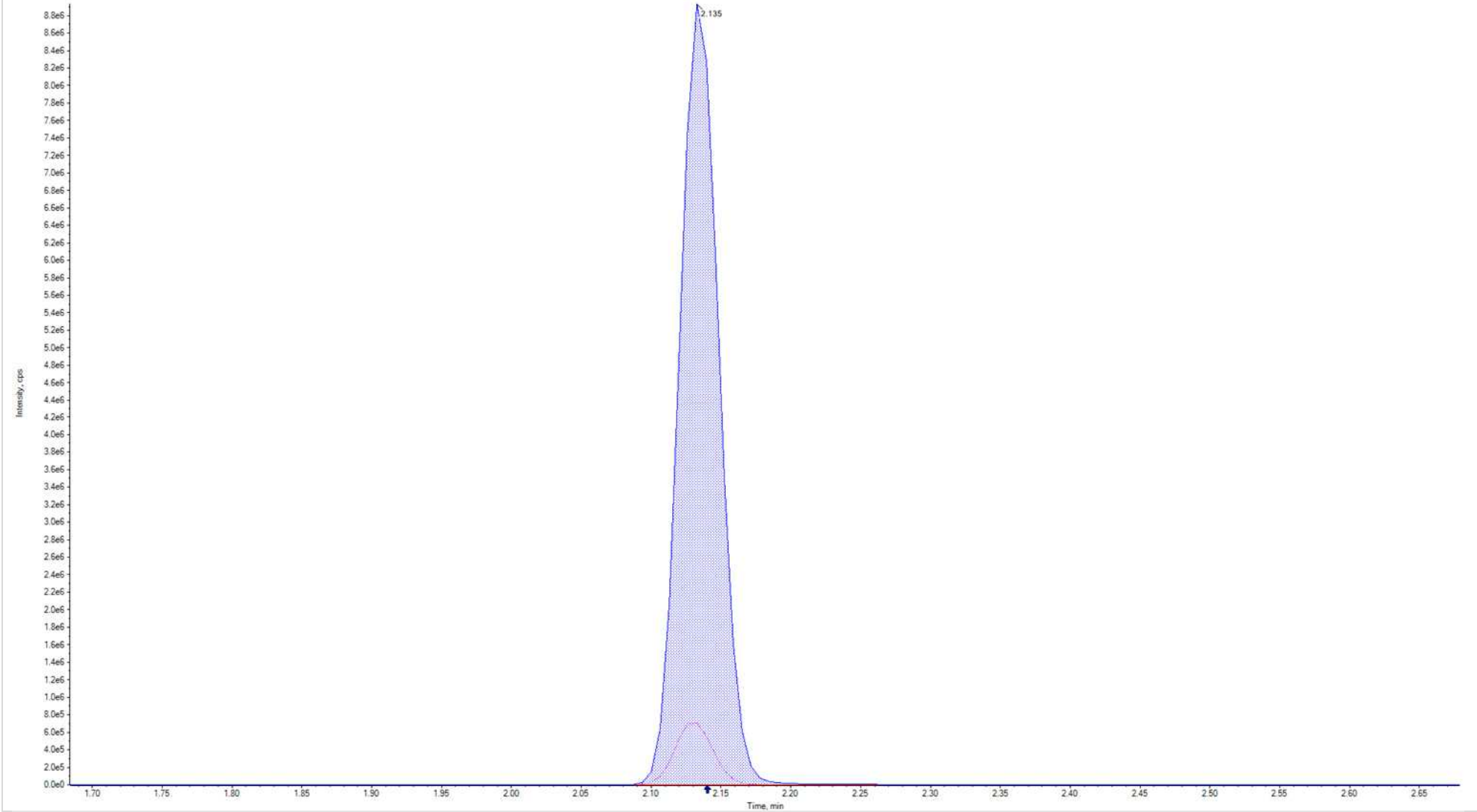
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

HFPO-DA
Sample: IA1633STD-62.5 S/N:34936.3 Points Across peak:34



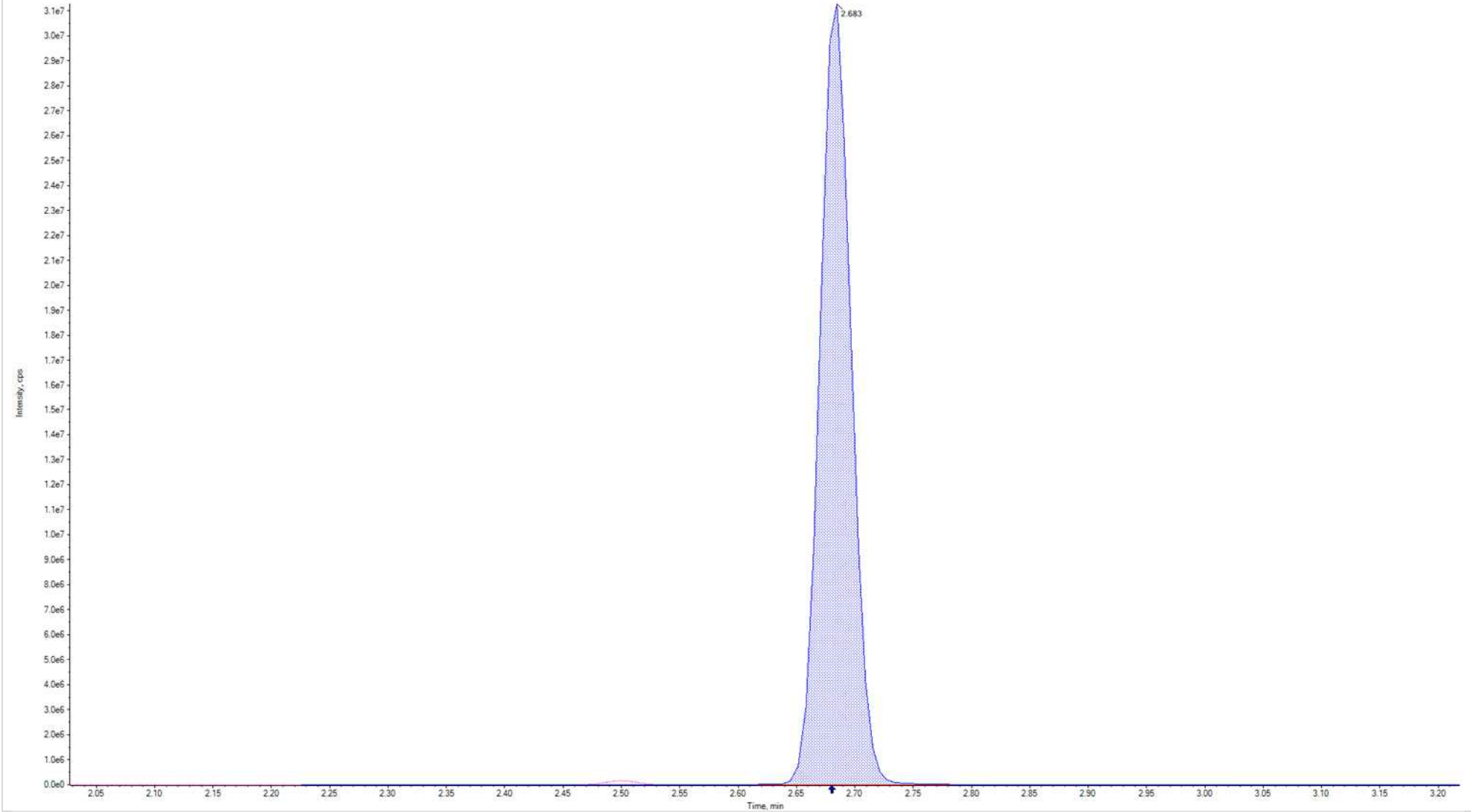
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
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HFPO-DA_2
Sample: IA1633STD-62.5 S/N:26447.0 Points Across peak:41



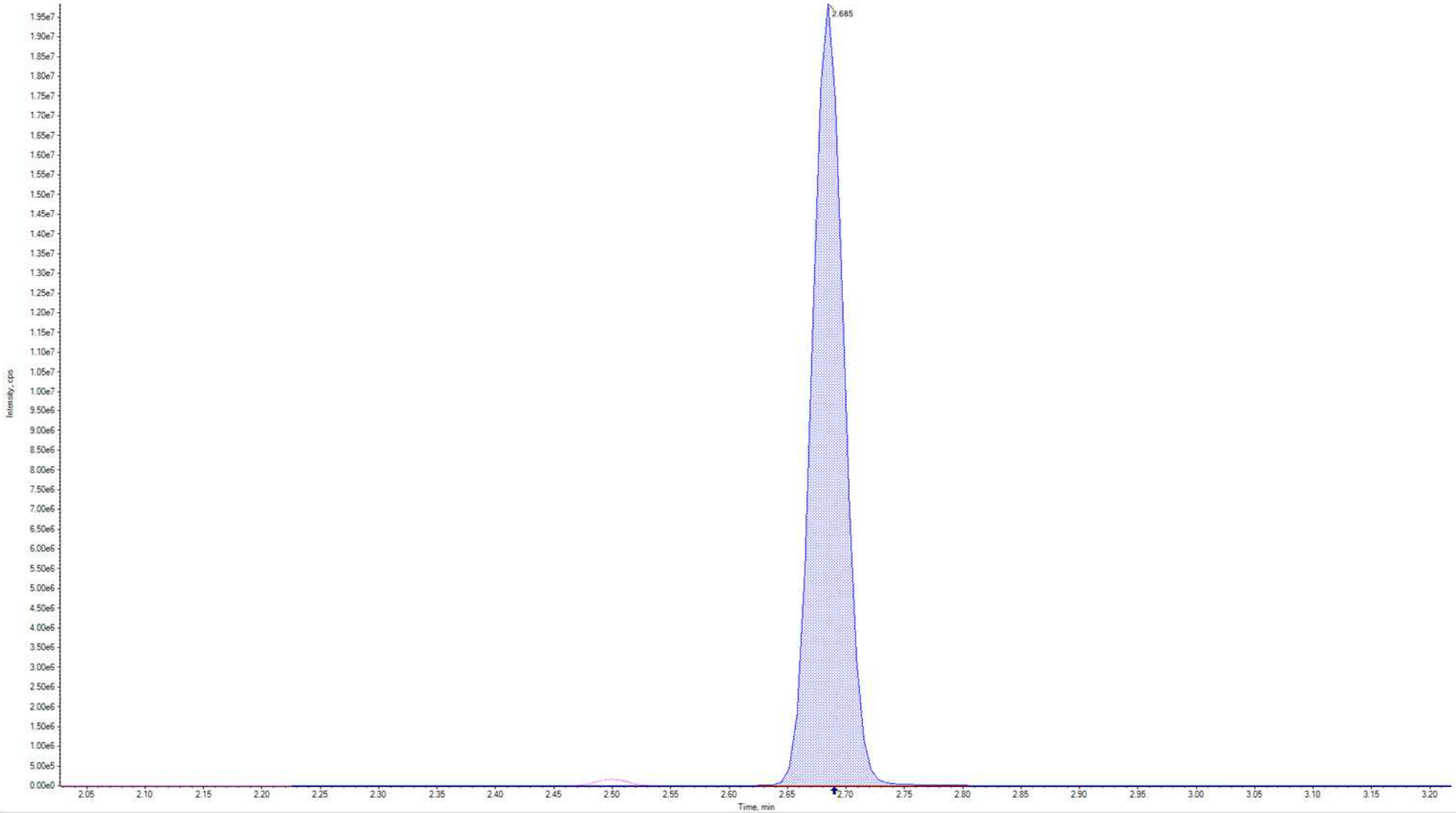
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

ADONA
Sample: IA1633STD-62.5 S/N:21919.2 Points Across peak:35



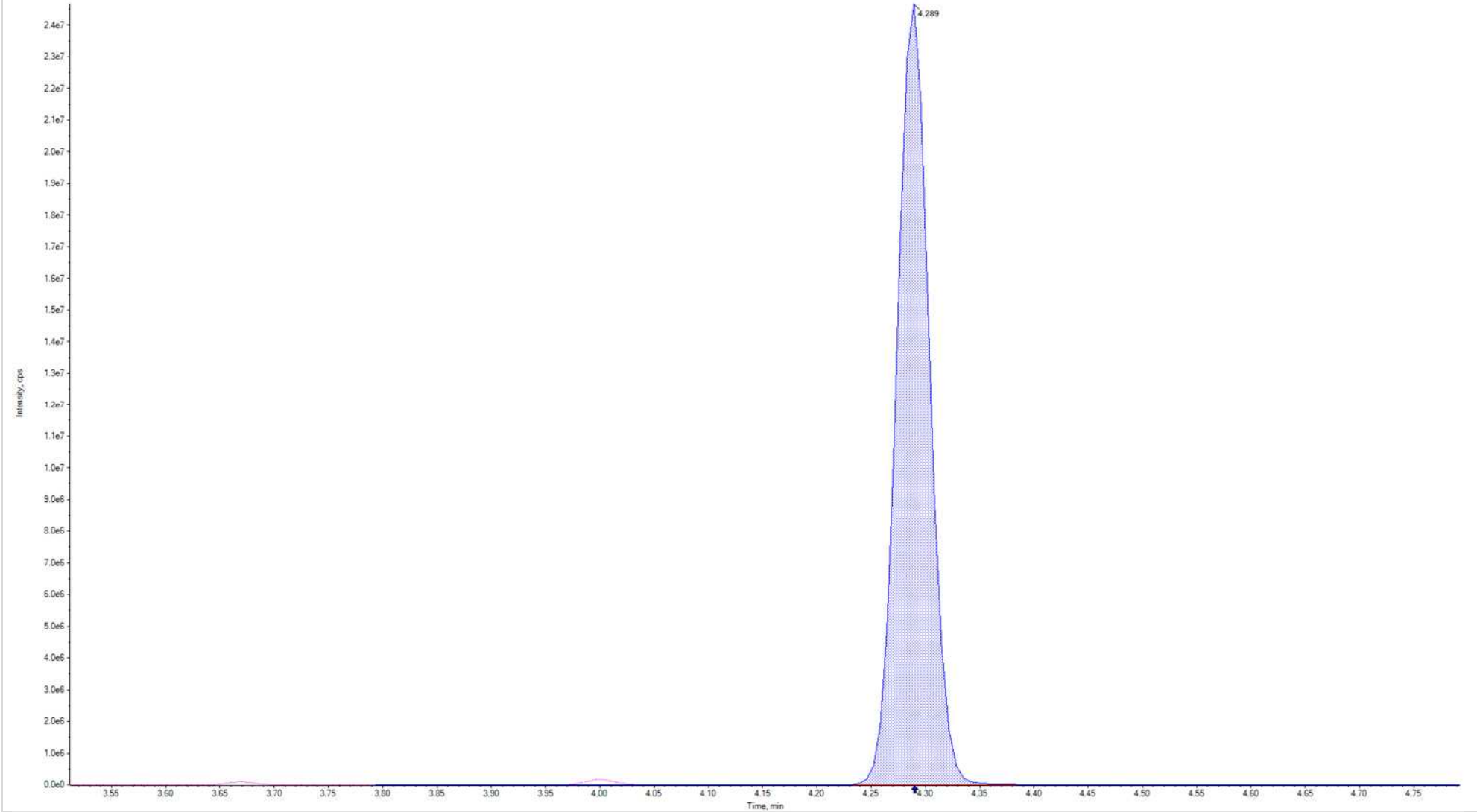
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

ADONA_2
Sample: IA1633STD-62.5 S/N:93728.5 Points Across peak:47



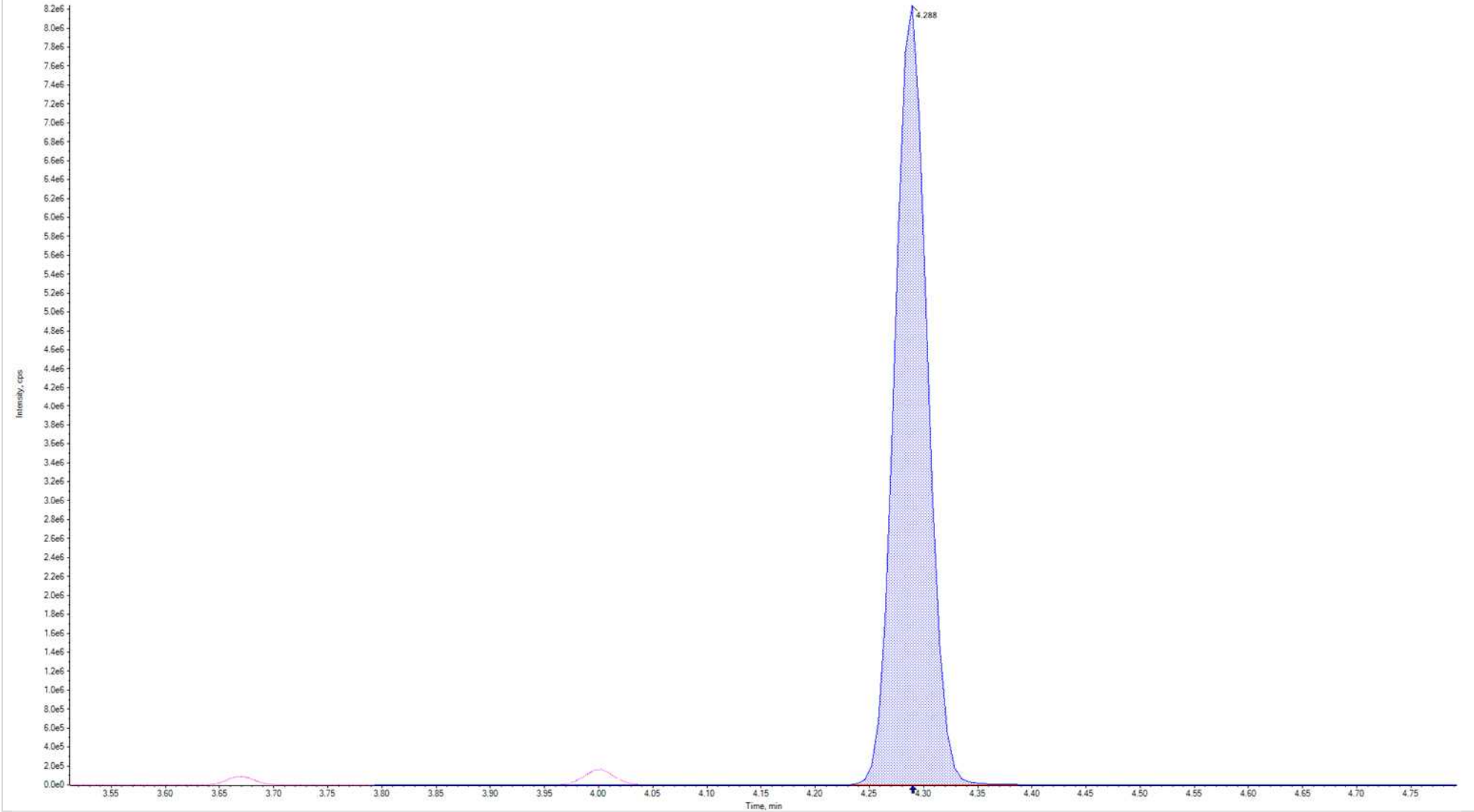
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS
Sample: IA1633STD-62.5 S/N:6318.0 Points Across peak:36



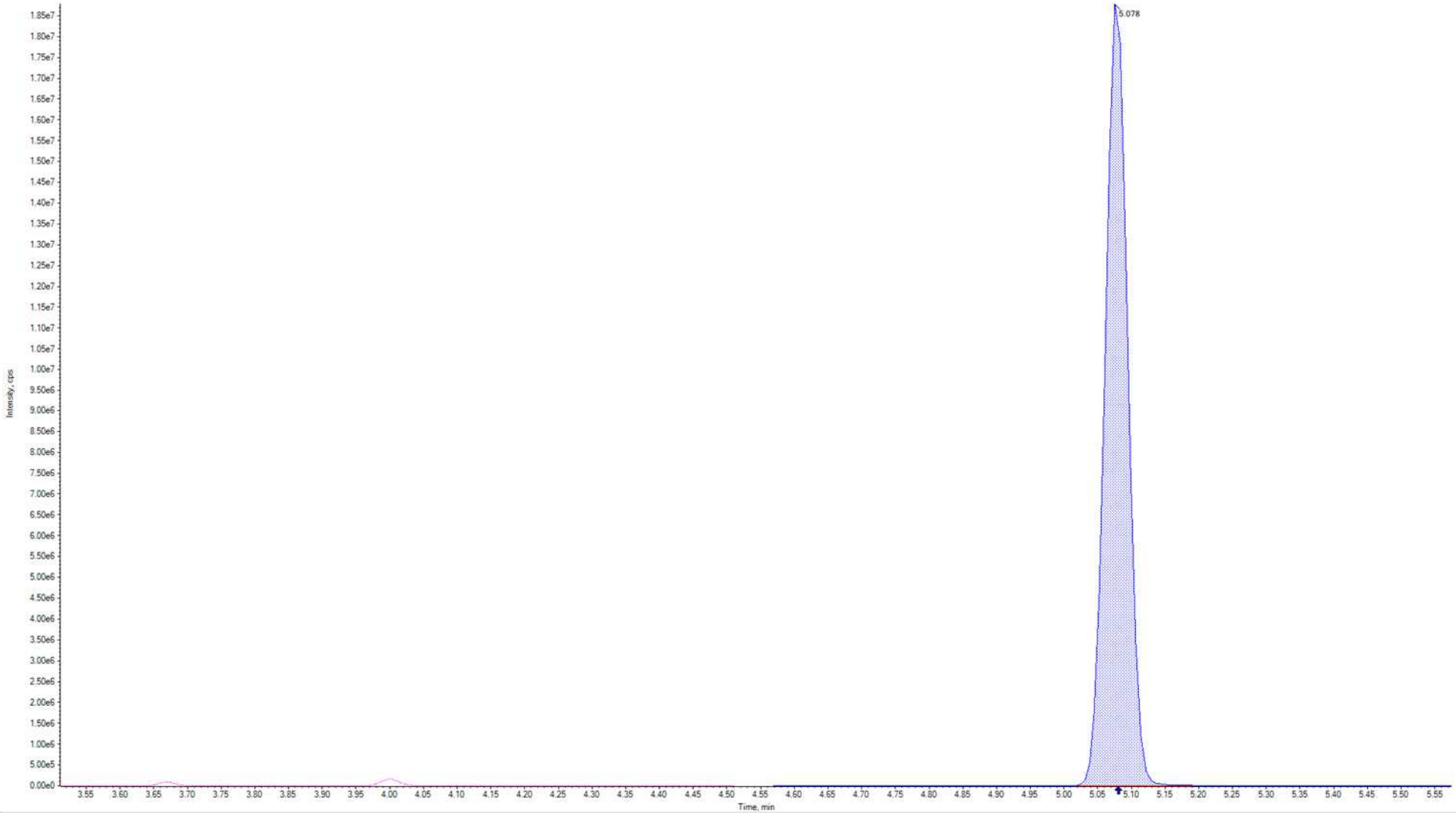
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

9Cl-PF3ONS_2
Sample: IA1633STD-62.5 S/N:6854.2 Points Across peak:39



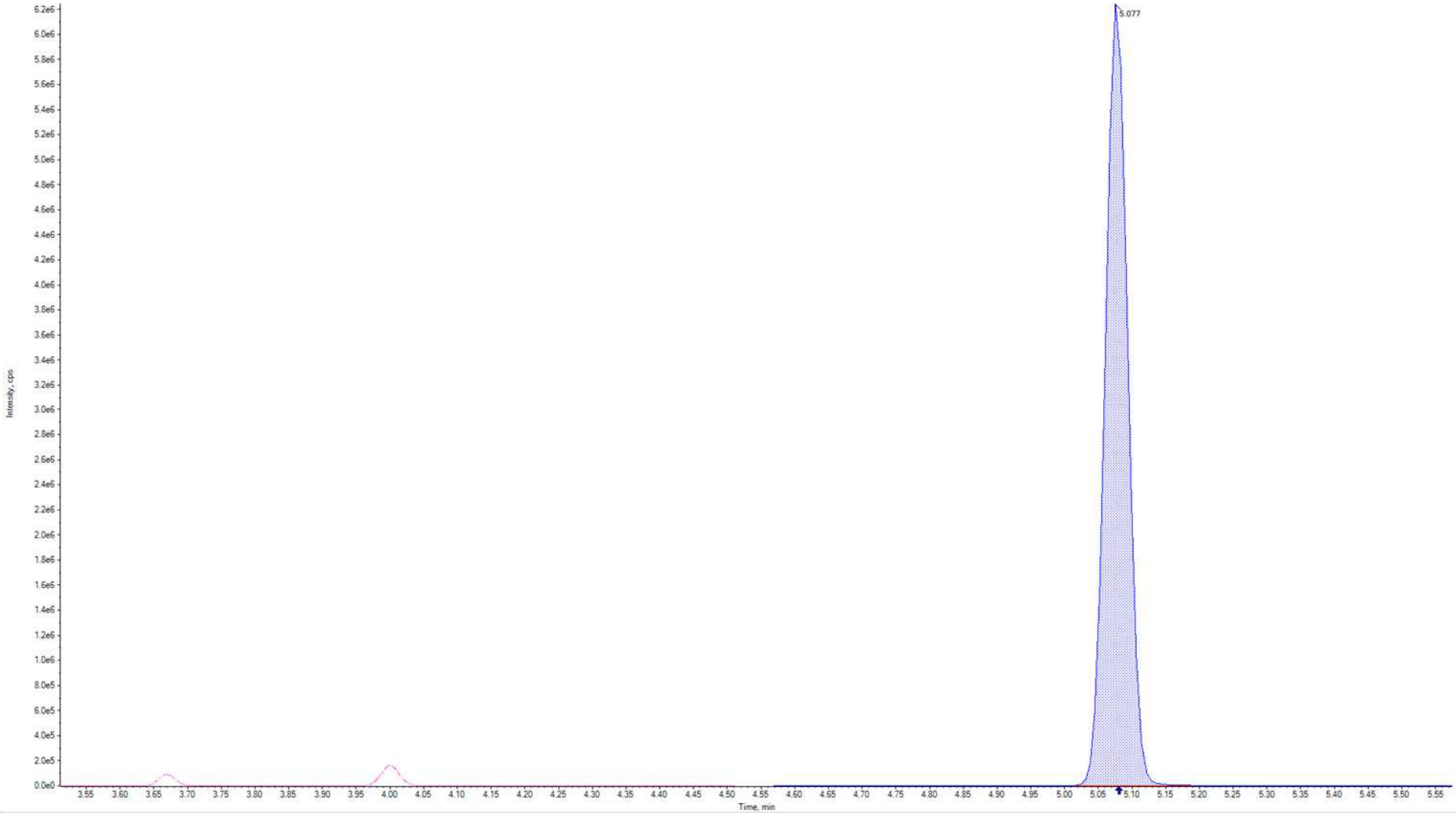
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Alpha Analytical LLC
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11Cl-PF3OUdS
Sample: IA1633STD-62.5 S/N:894638.4 Points Across peak:35



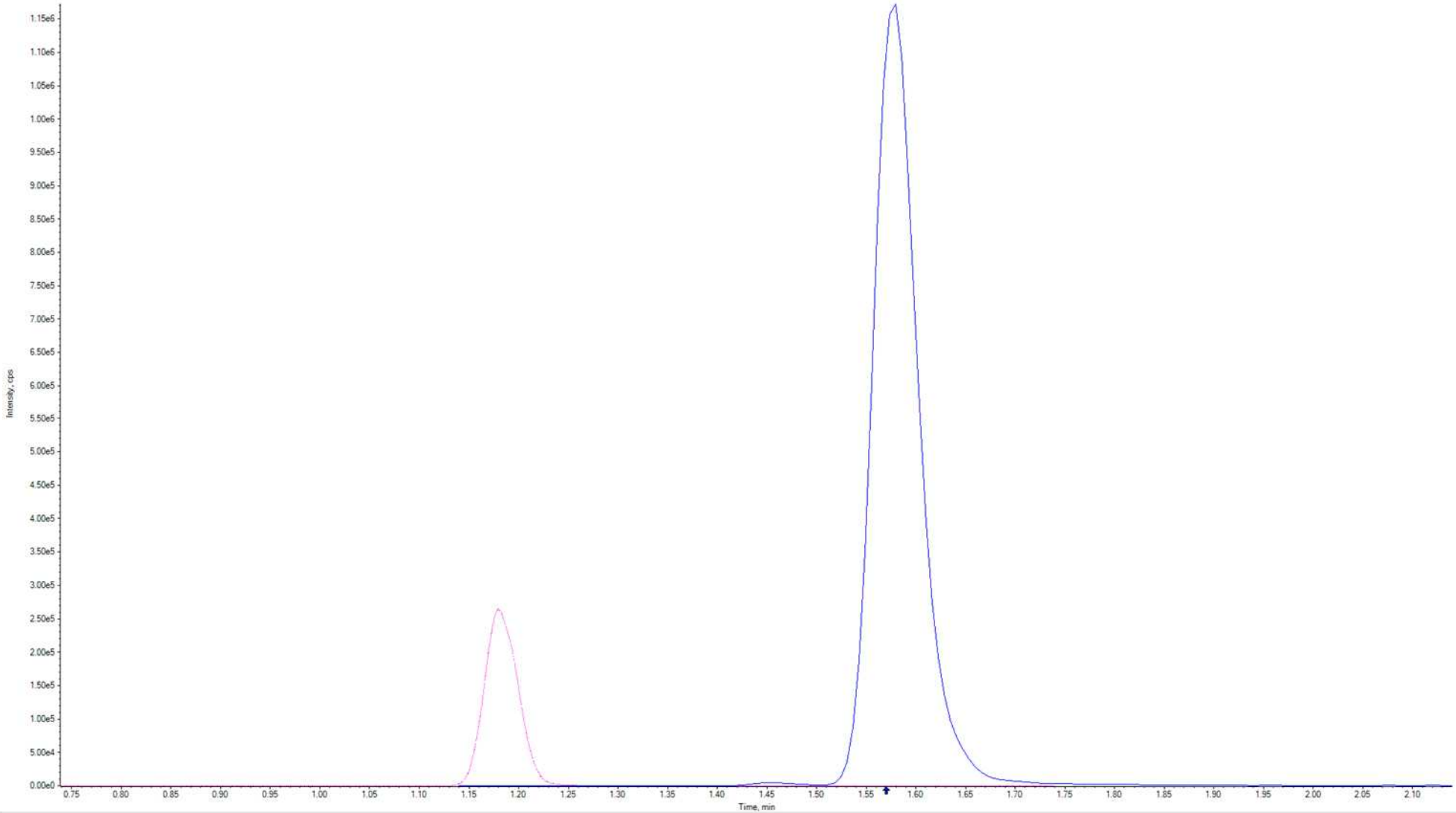
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Alpha Analytical LLC
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11Cl-PF3OUdS_2
Sample: IA1633STD-62.5 S/N:297361.6 Points Across peak:41



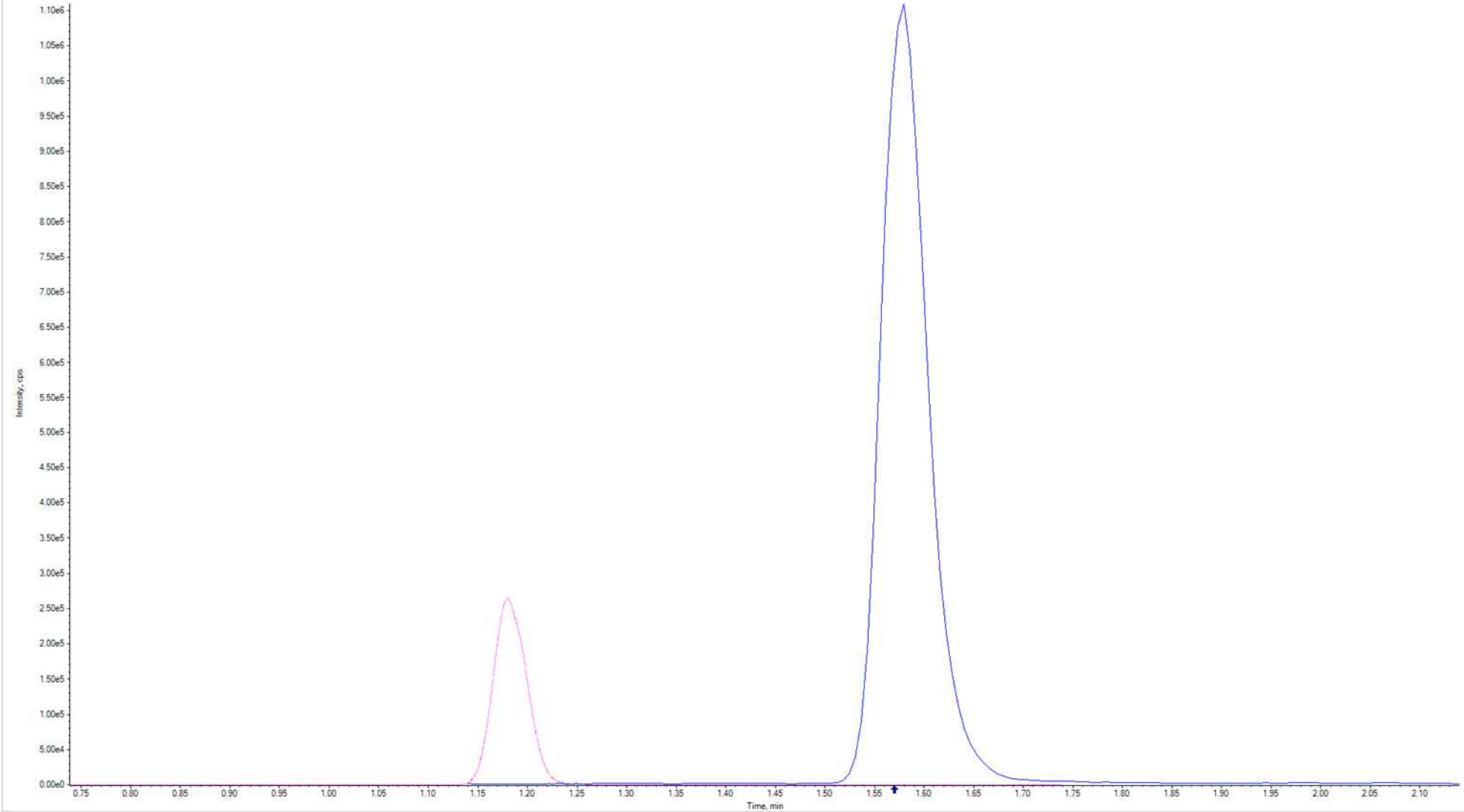
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Alpha Analytical LLC
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3:3FTCA
Sample: IA1633STD-62.5 S/N:N/A Points Across peak:N/A



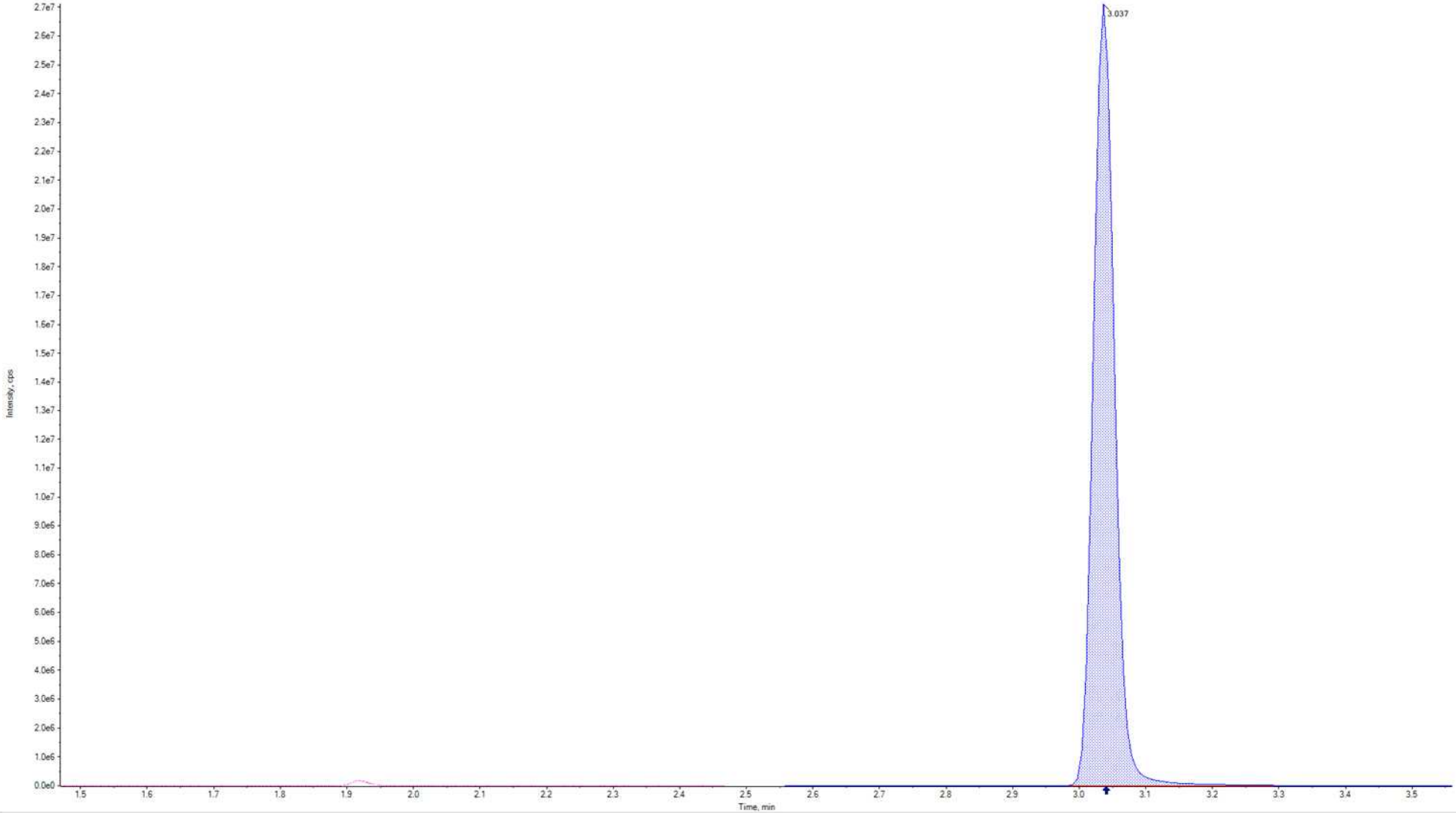
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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3:3FTCA_2
Sample: IA1633STD-62.5 S/N:N/A Points Across peak:N/A



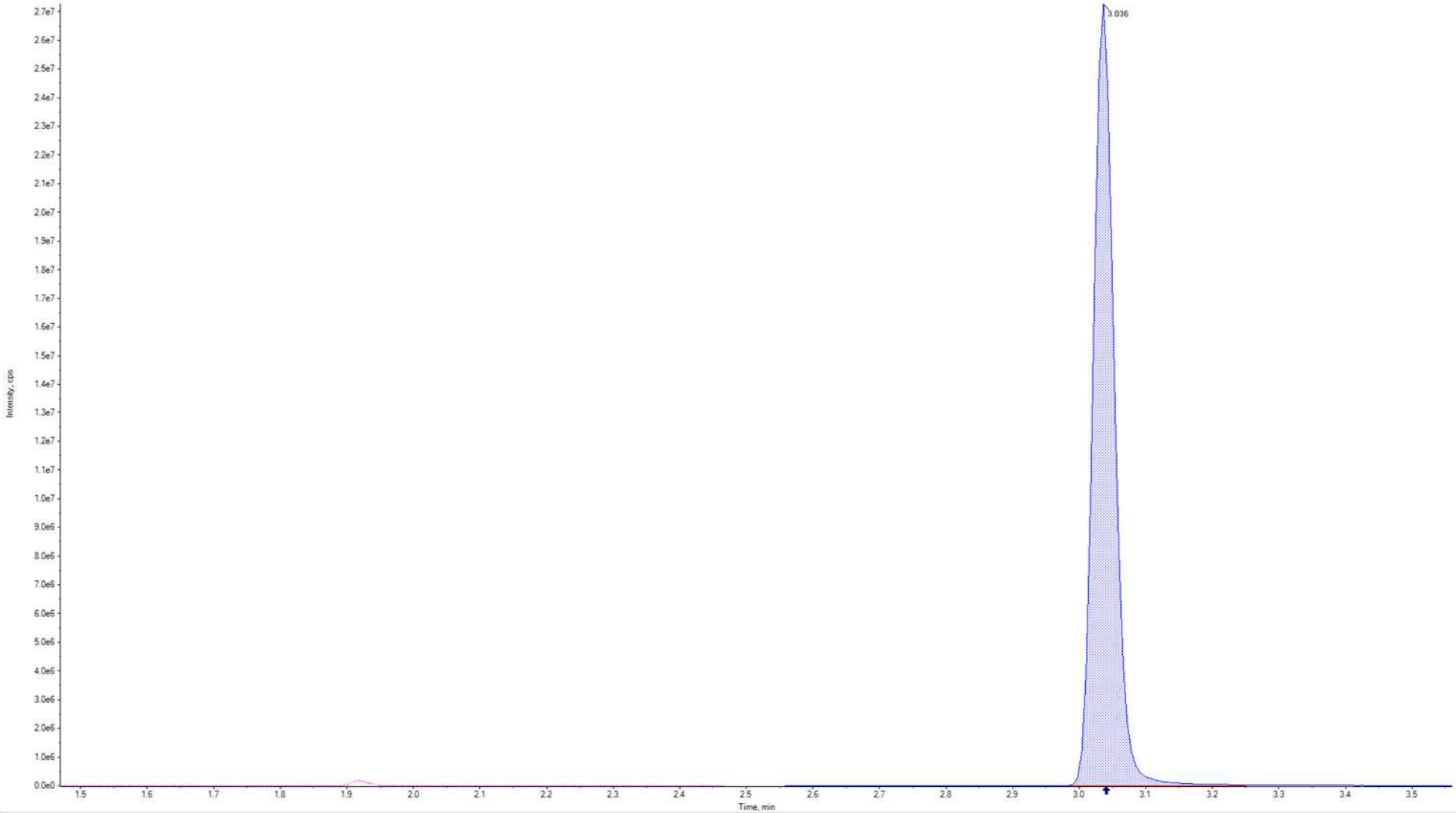
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Alpha Analytical LLC
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5:3FTCA
Sample: IA1633STD-62.5 S/N:30242.4 Points Across peak:65



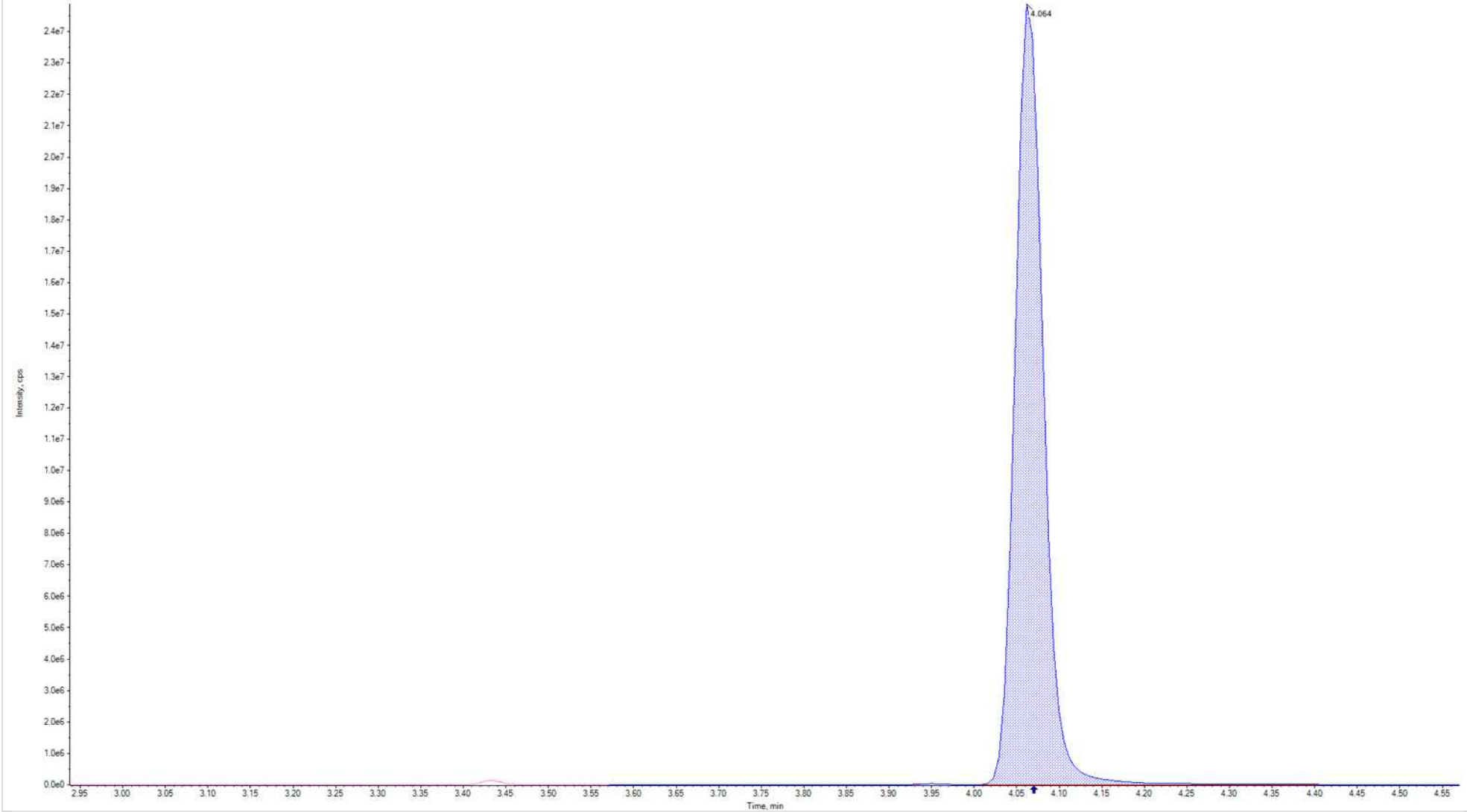
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Alpha Analytical LLC
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5:3FTCA_2
Sample: IA1633STD-62.5 S/N:14728.3 Points Across peak:49



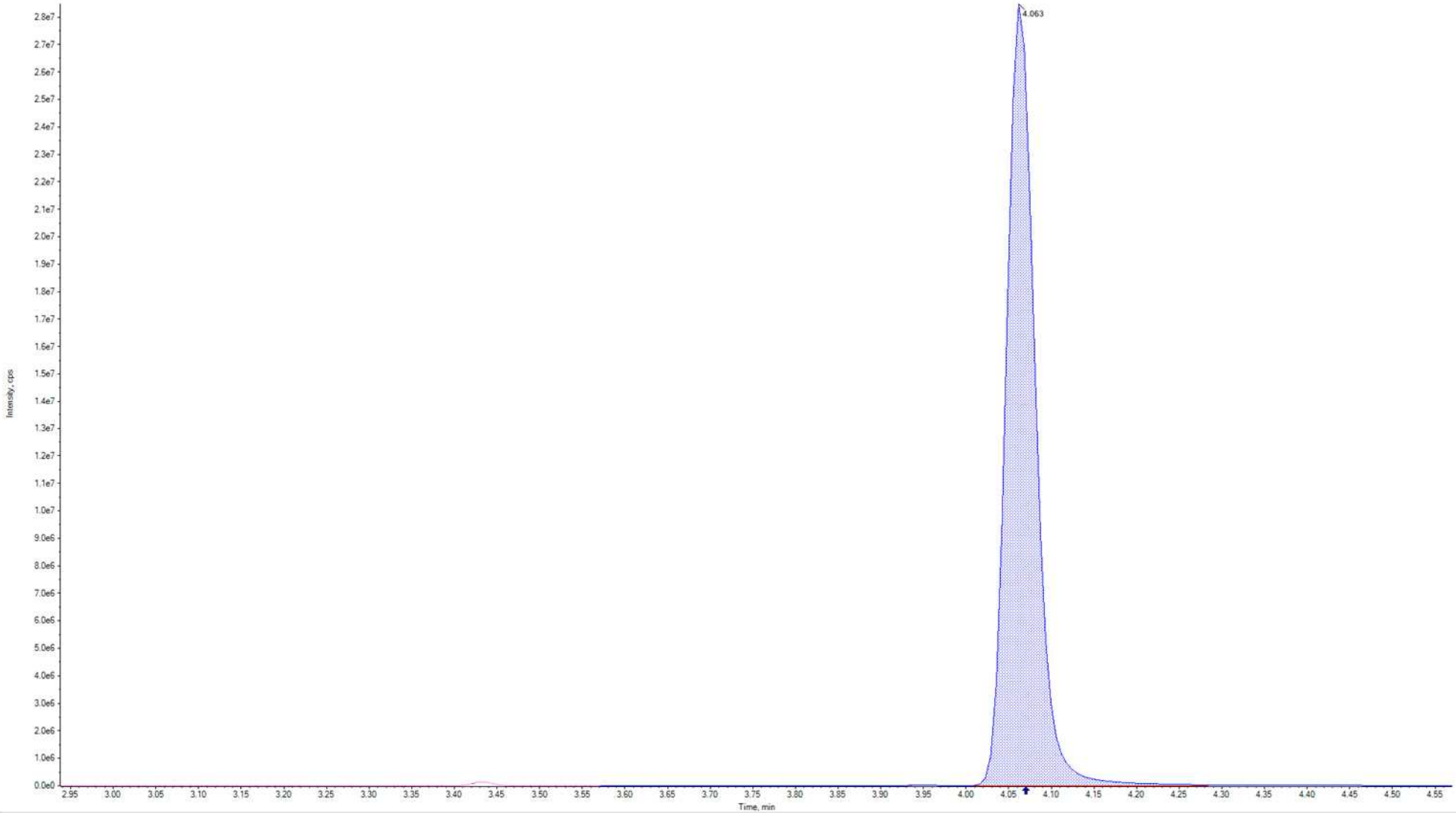
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Alpha Analytical LLC
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7:3FTCA
Sample: IA1633STD-62.5 S/N:22432.7 Points Across peak:68



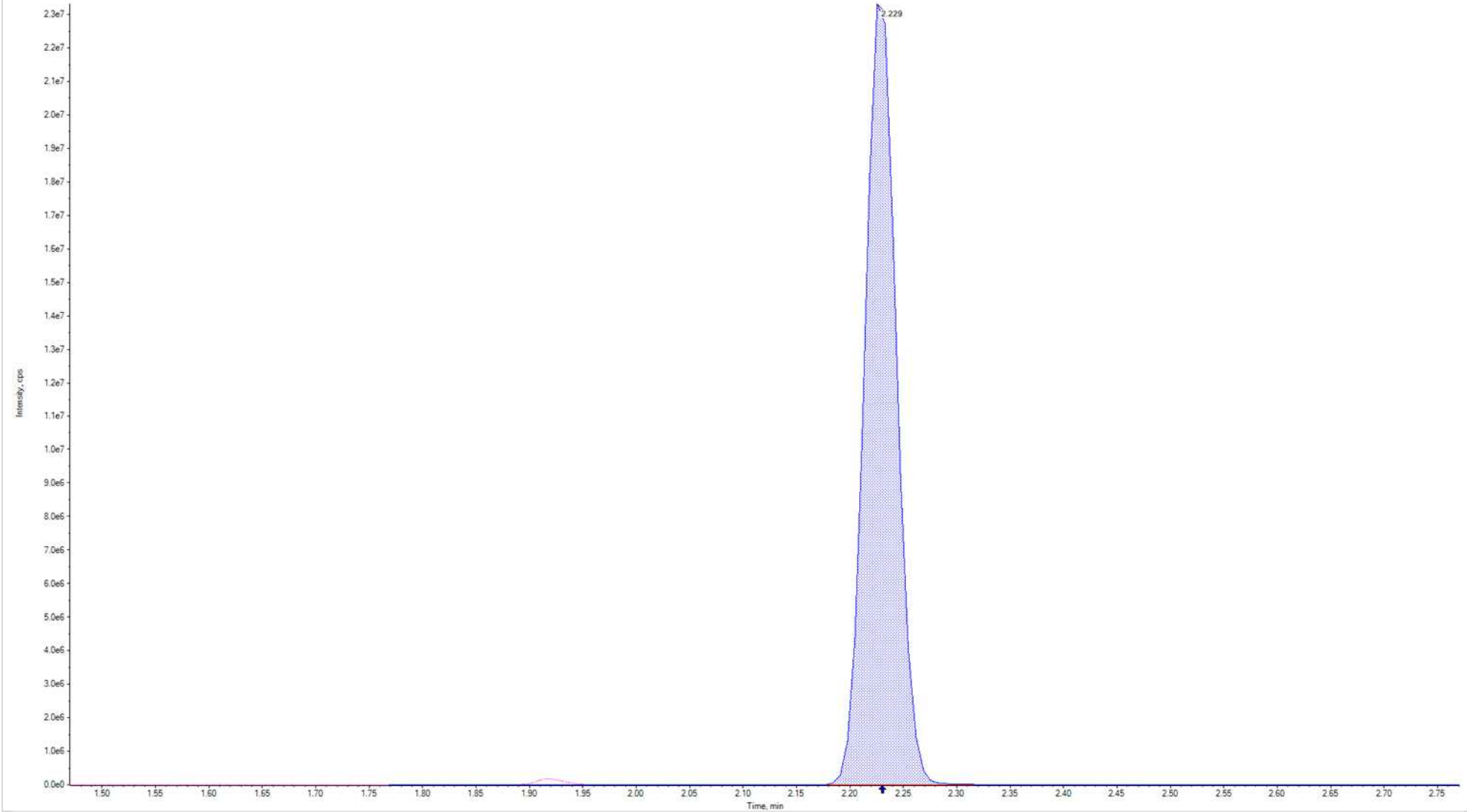
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Alpha Analytical LLC
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7:3FTCA_2
Sample: IA1633STD-62.5 S/N:20008.1 Points Across peak:46



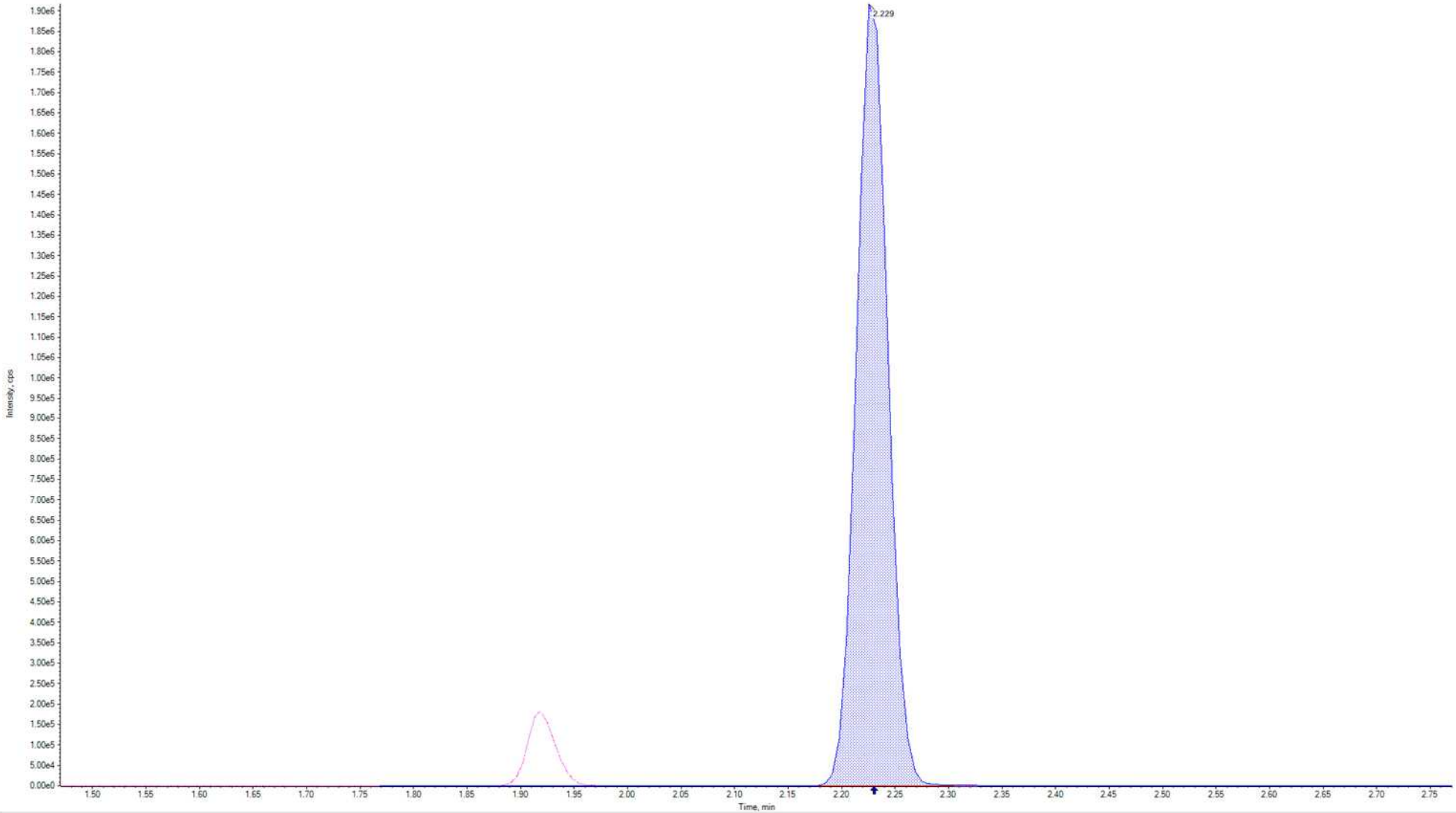
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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PFEESA
Sample: IA1633STD-62.5 S/N:8045.2 Points Across peak:34



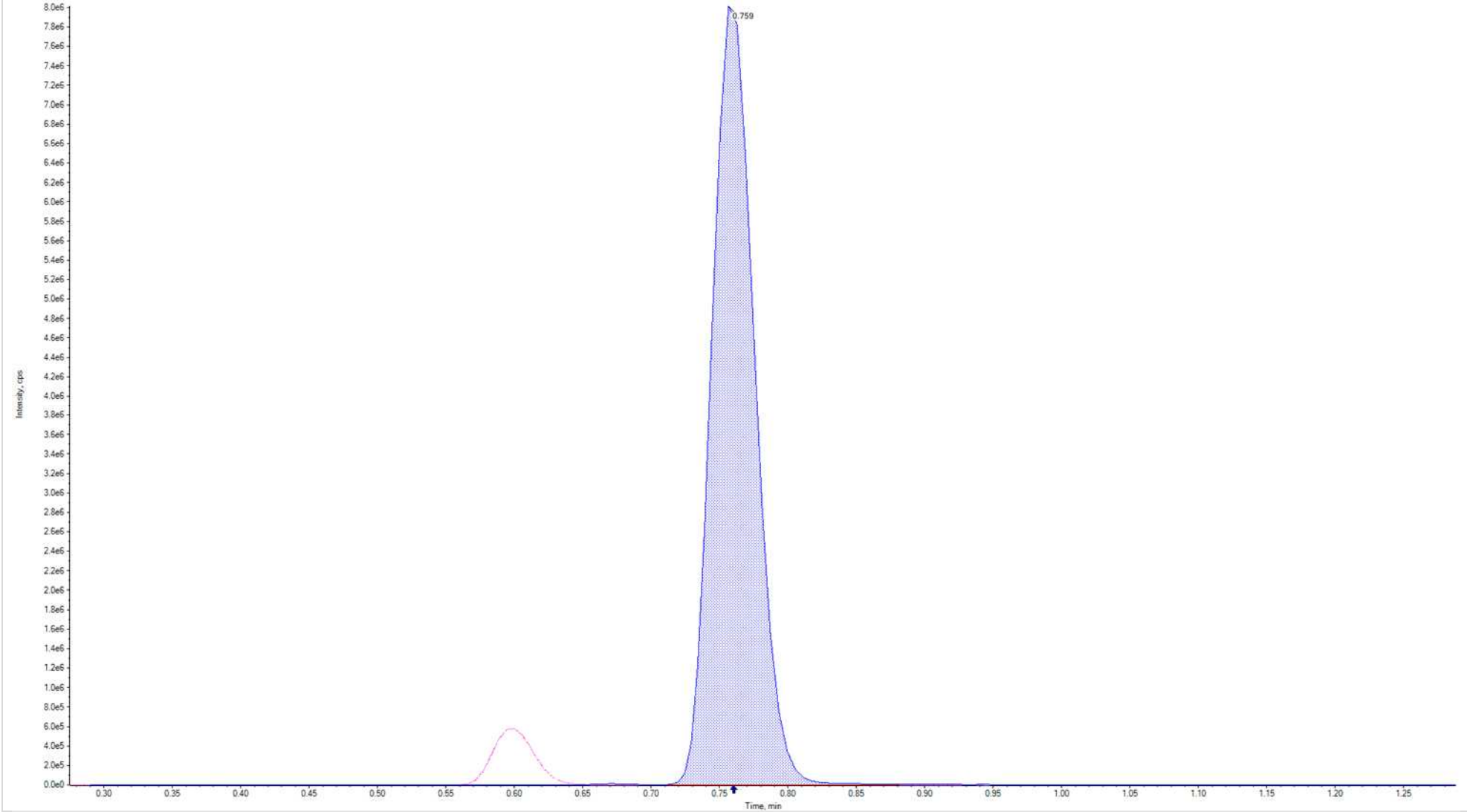
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PFEESA_2
Sample: IA1633STD-62.5 S/N:7465.7 Points Across peak:24



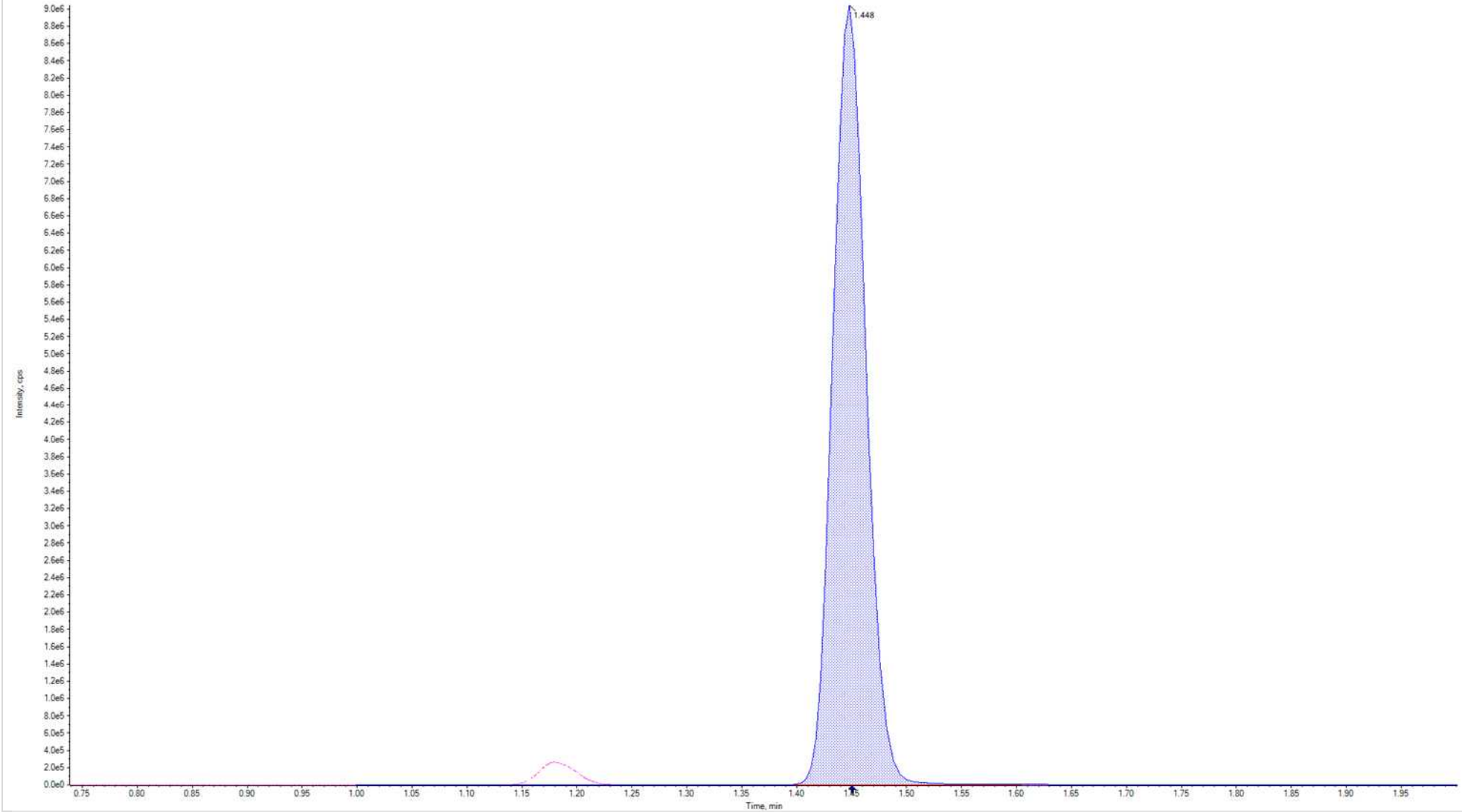
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Alpha Analytical LLC
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PFMPA
Sample: IA1633STD-62.5 S/N:30657.5 Points Across peak:32



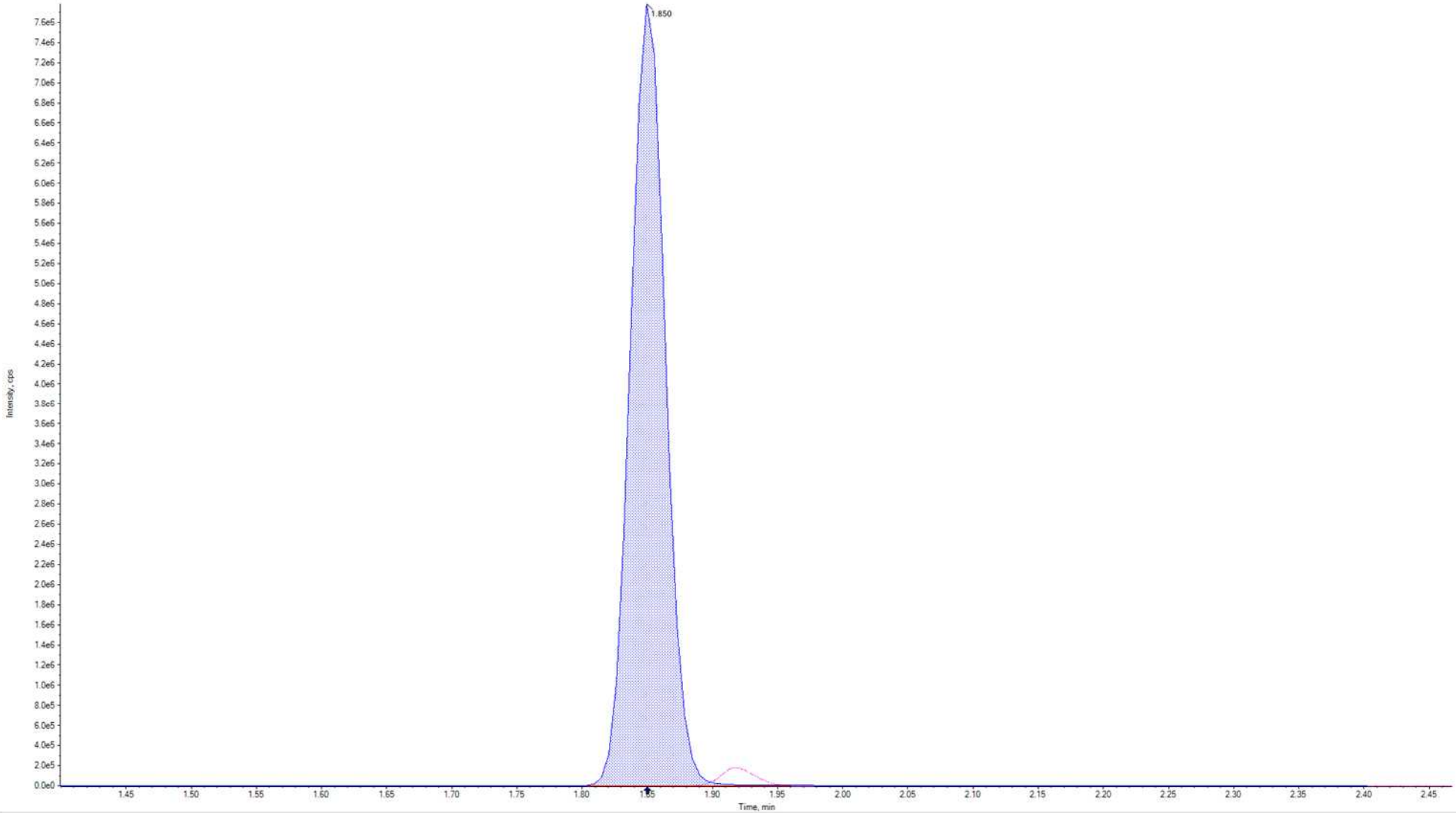
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
Generated: 3/3/2025 3:16:24 PM

PFMBA
Sample: IA1633STD-62.5 S/N:38464.5 Points Across peak:44



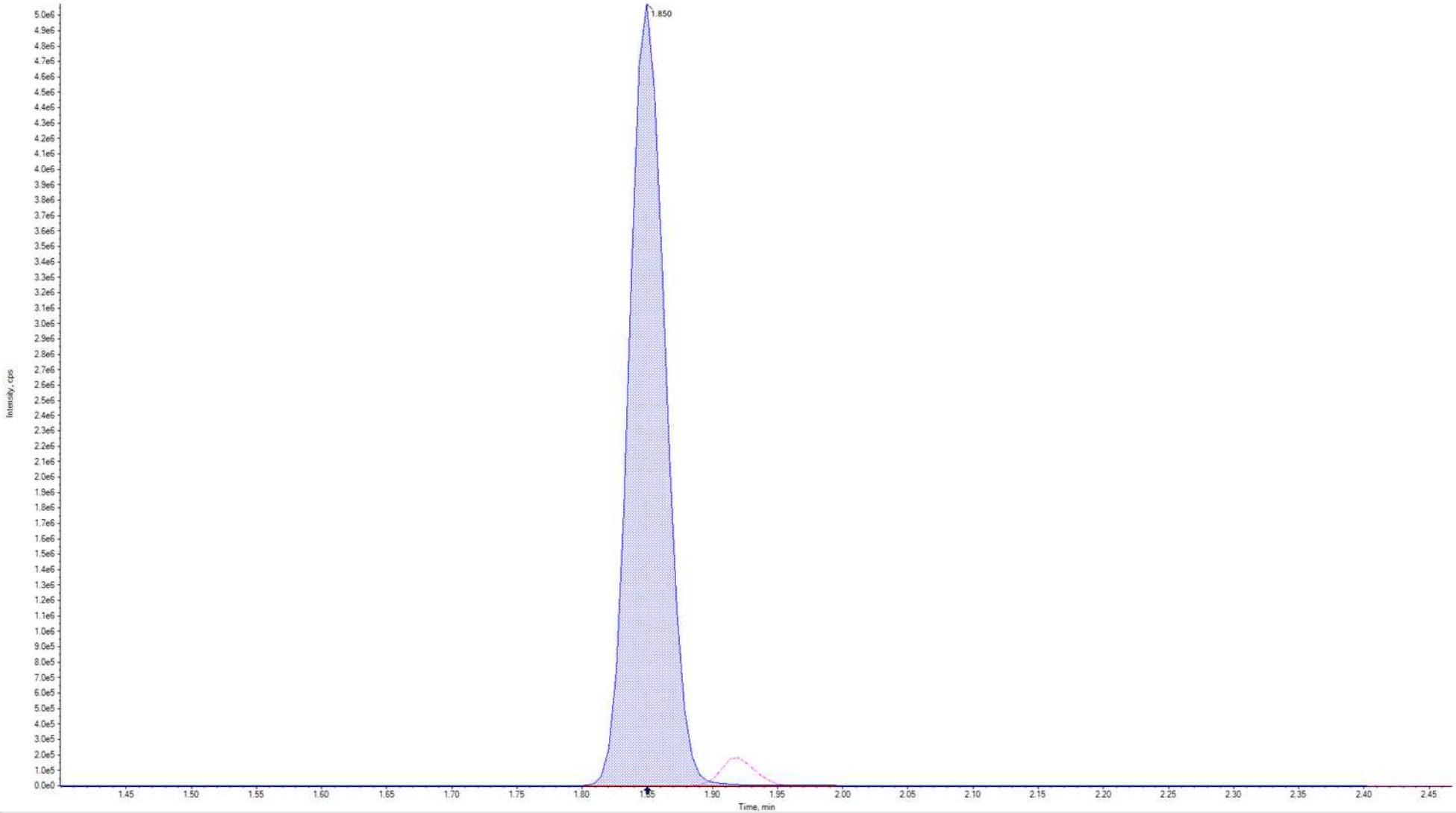
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NFDHA
Sample: IA1633STD-62.5 S/N:214637.0 Points Across peak:32



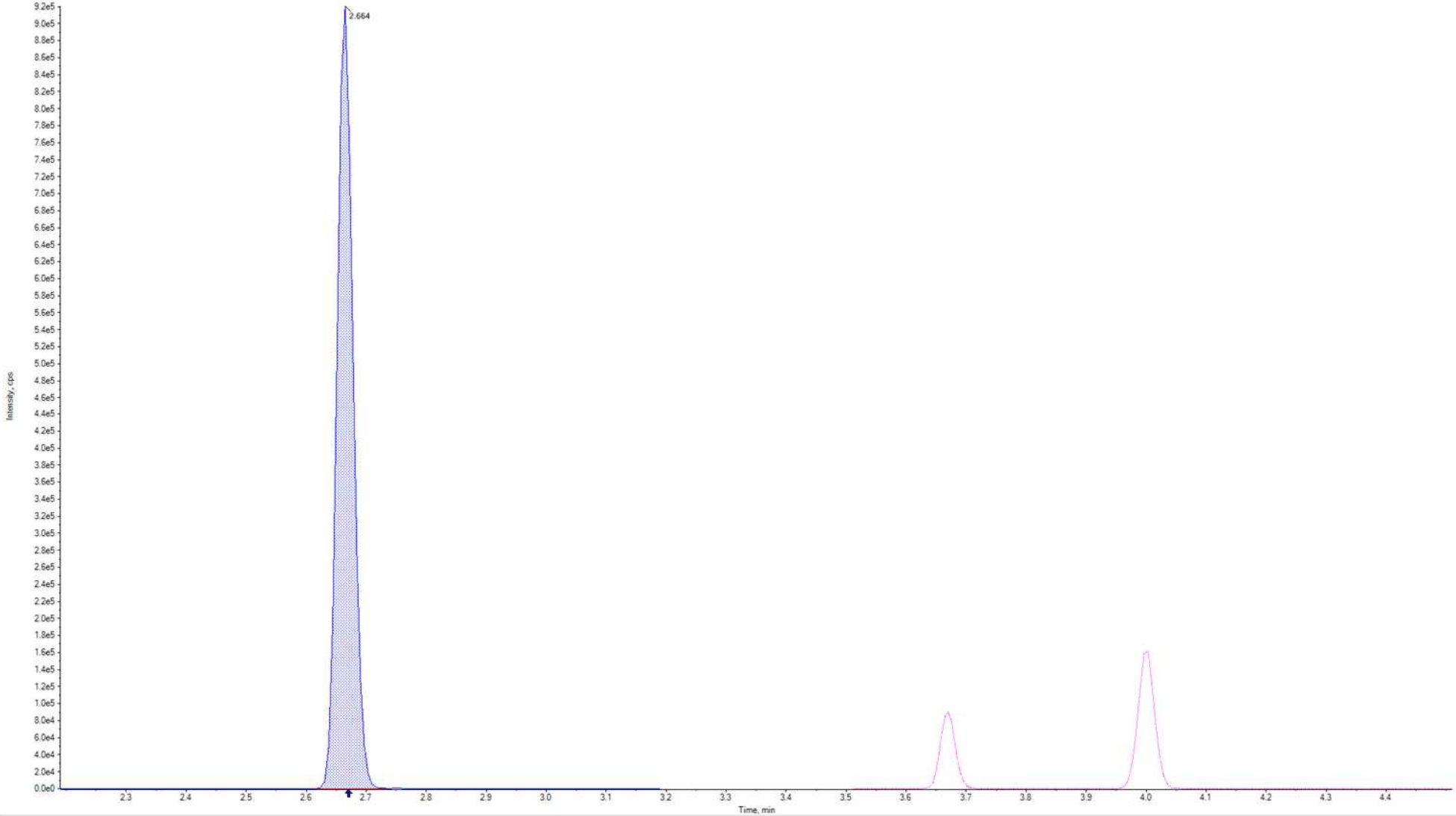
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Alpha Analytical LLC
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Last Altered: 3/4/2025 6:51:07 AM
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NFDHA_2
Sample: IA1633STD-62.5 S/N:44727.4 Points Across peak:42

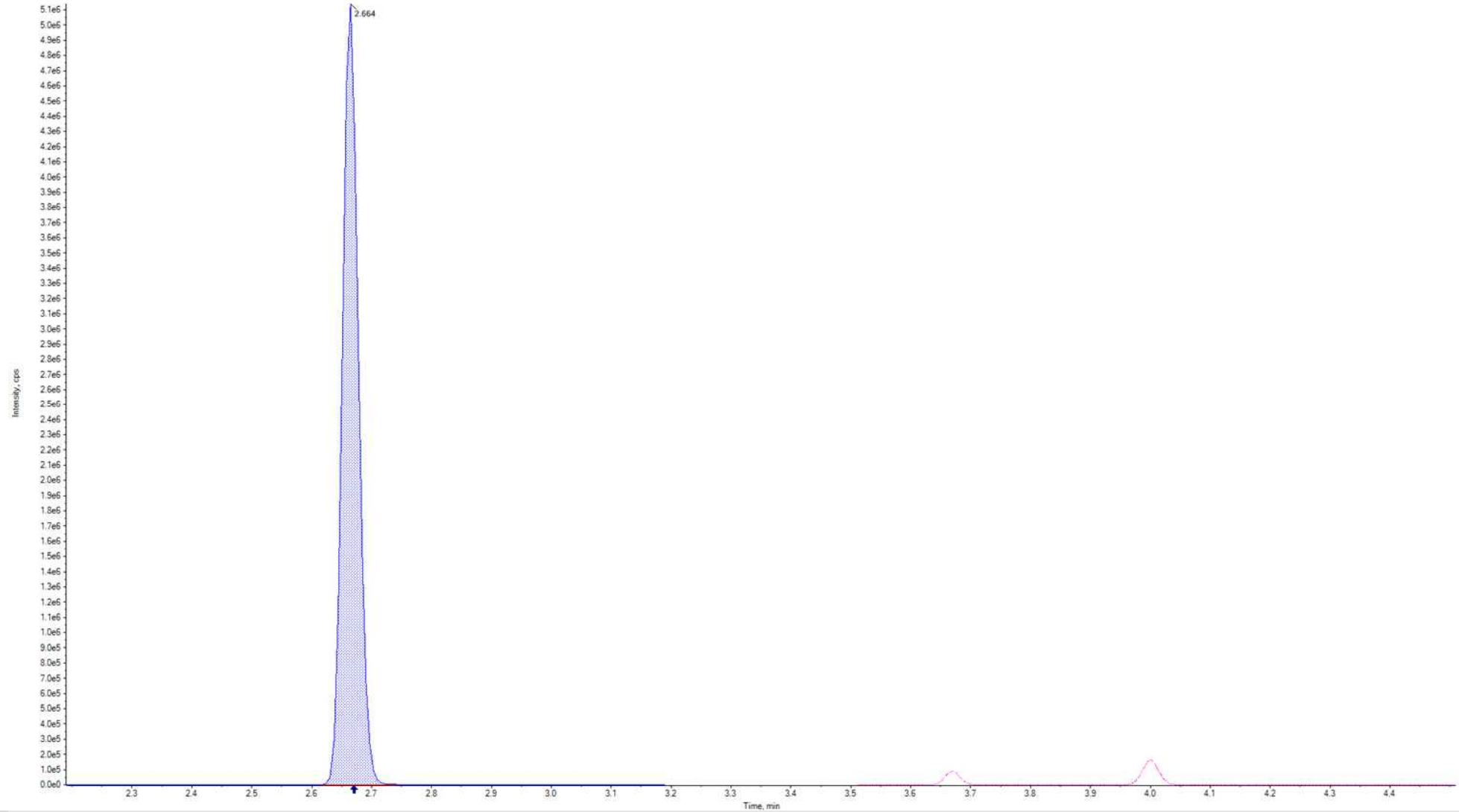


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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TDCA
Sample: IA1633STD-62.5 S/N:6403.7 Points Across peak:22

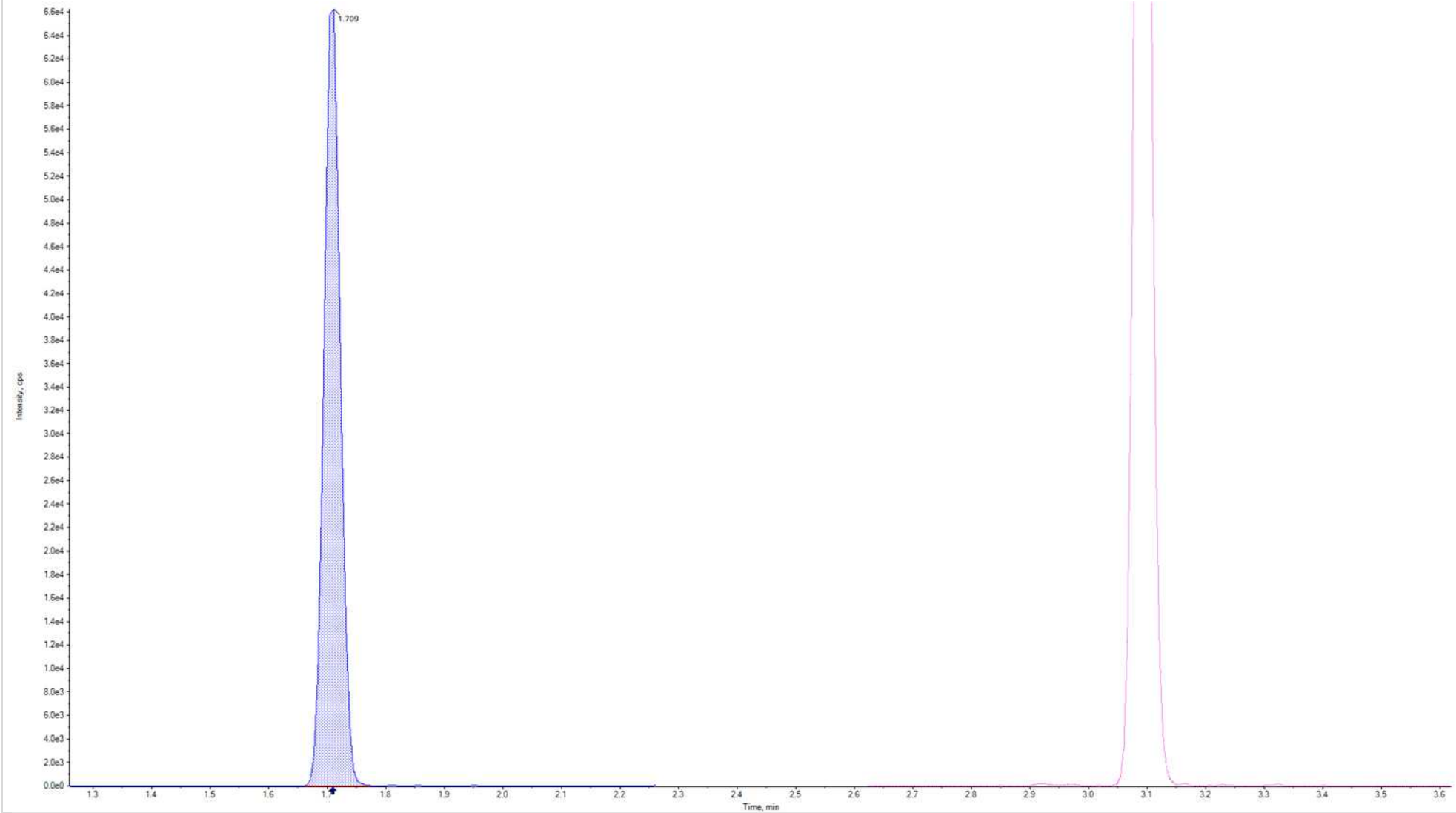


TDCA_2
Sample: IA1633STD-62.5 S/N:5733.5 Points Across peak:27



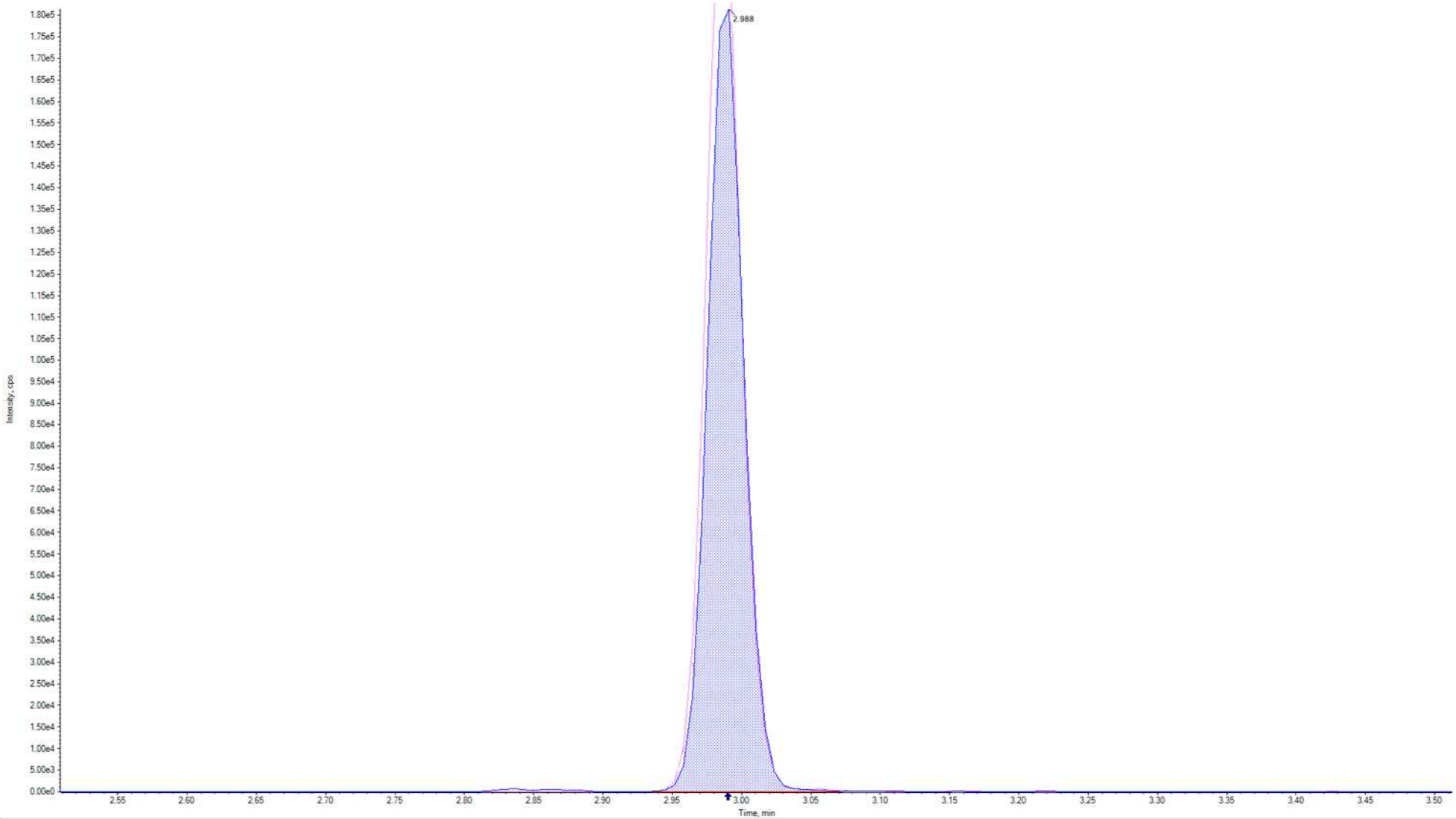
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Alpha Analytical LLC
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13C2D4-4:2FTS
Sample: IA1633STD-62.5 S/N:2490.8 Points Across peak:24

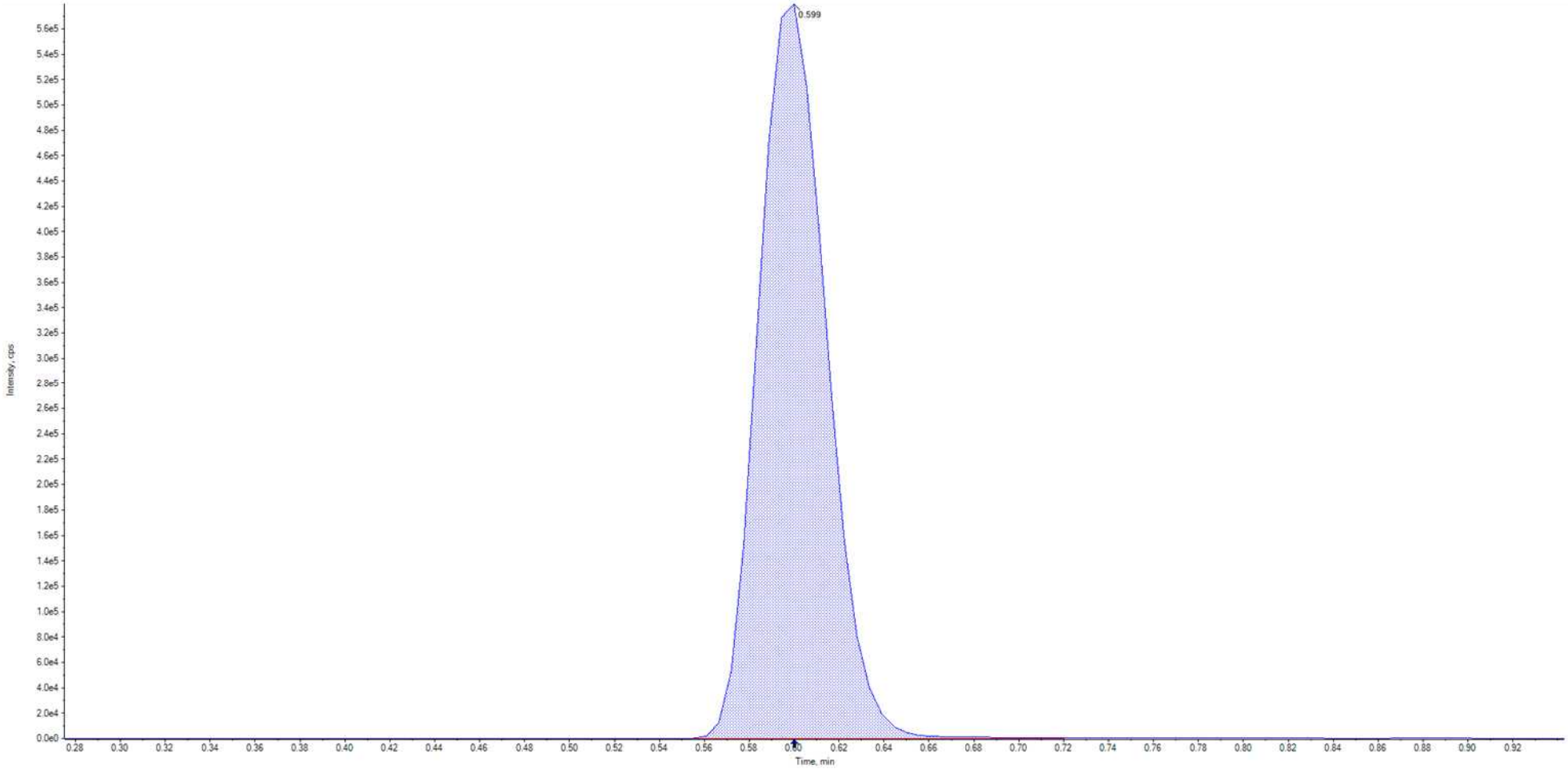


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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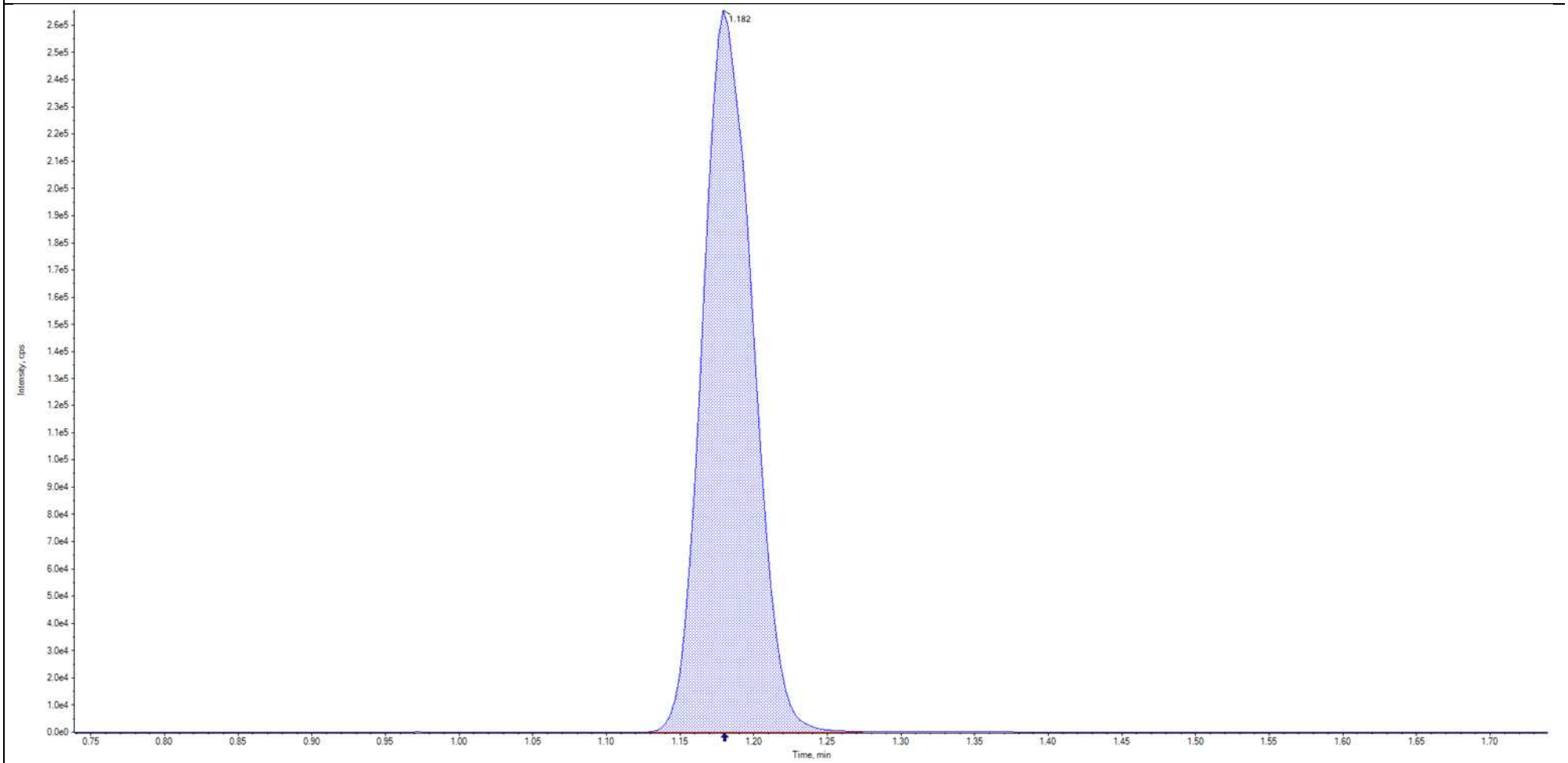
13C2-PFOA
Sample: IA1633STD-62.5 S/N:4091.7 Points Across peak:26



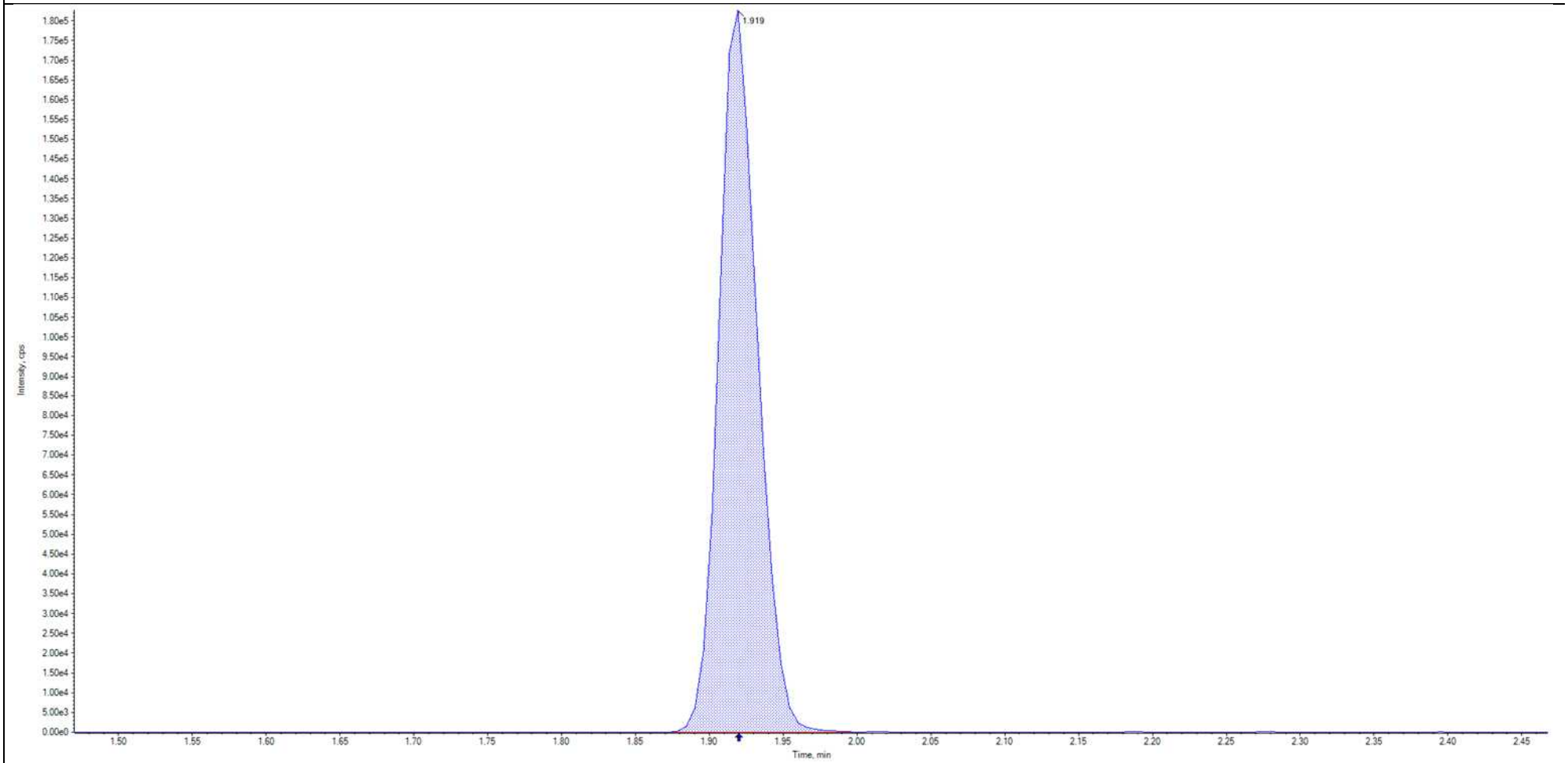
13C4-PFBA
Sample: IA1633STD-62.5



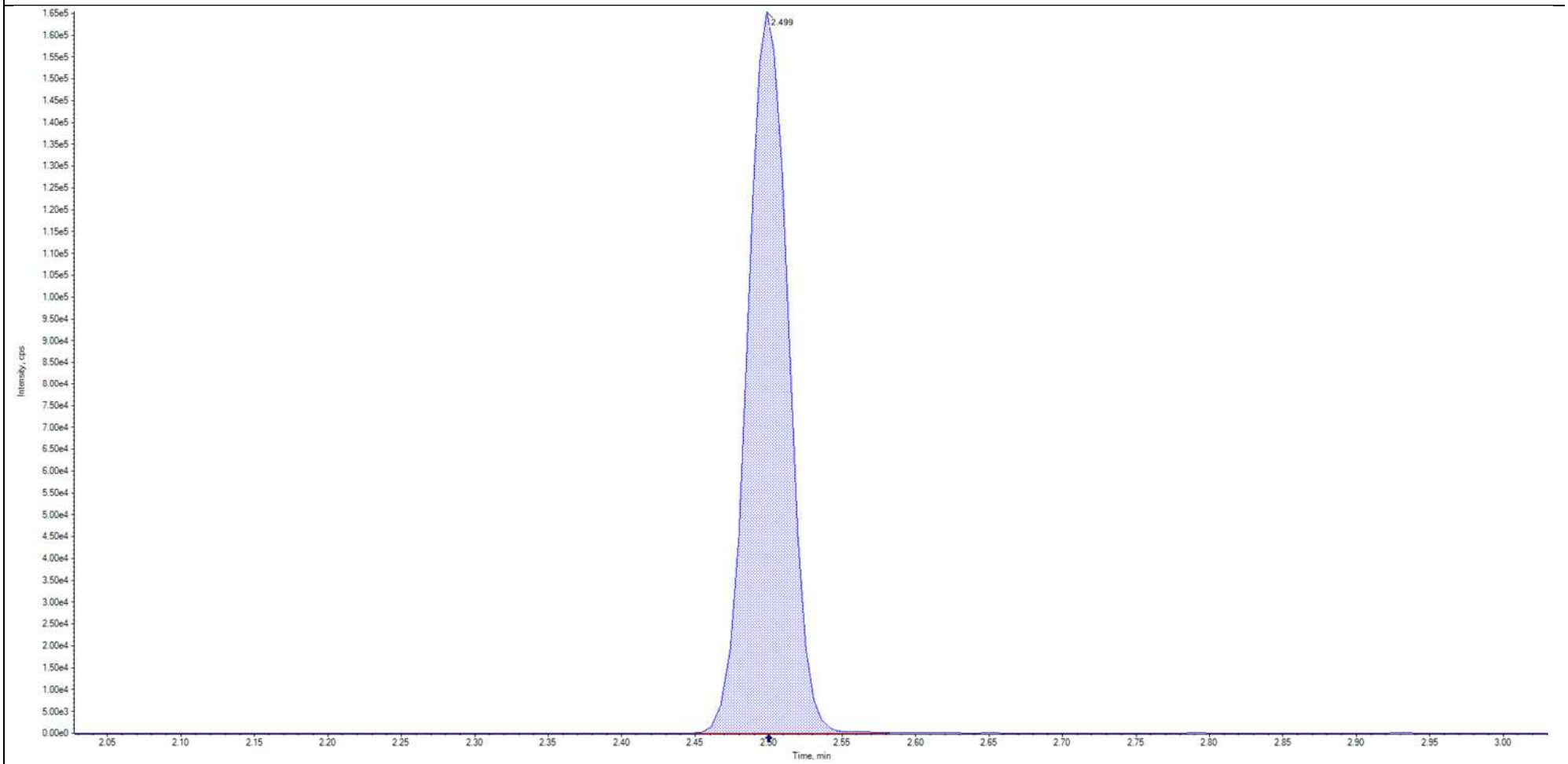
13C5-PFPeA
Sample: IA1633STD-62.5



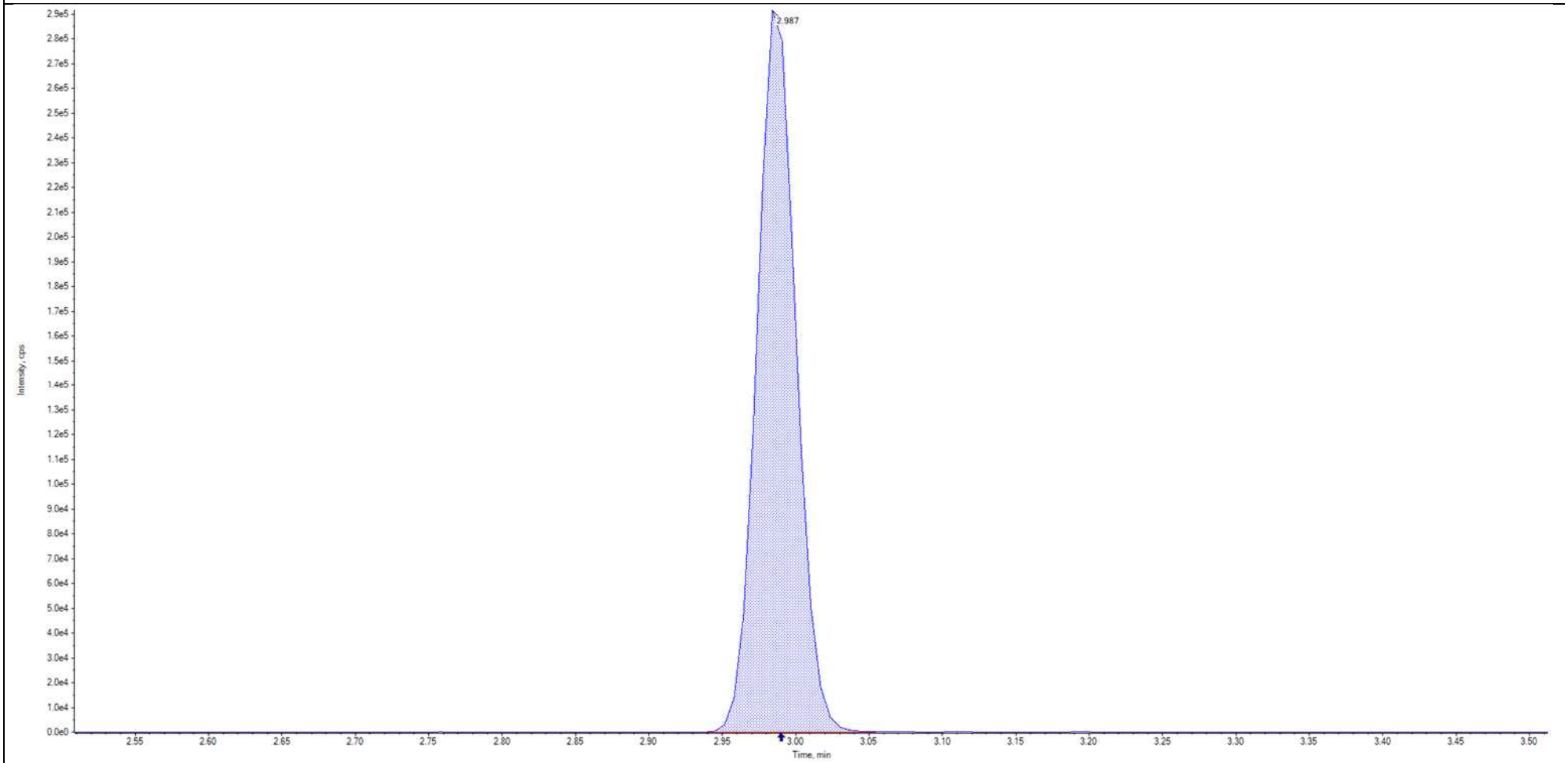
13C5-PFHxA
Sample: IA1633STD-62.5



13C4-PFHpA
Sample: IA1633STD-62.5

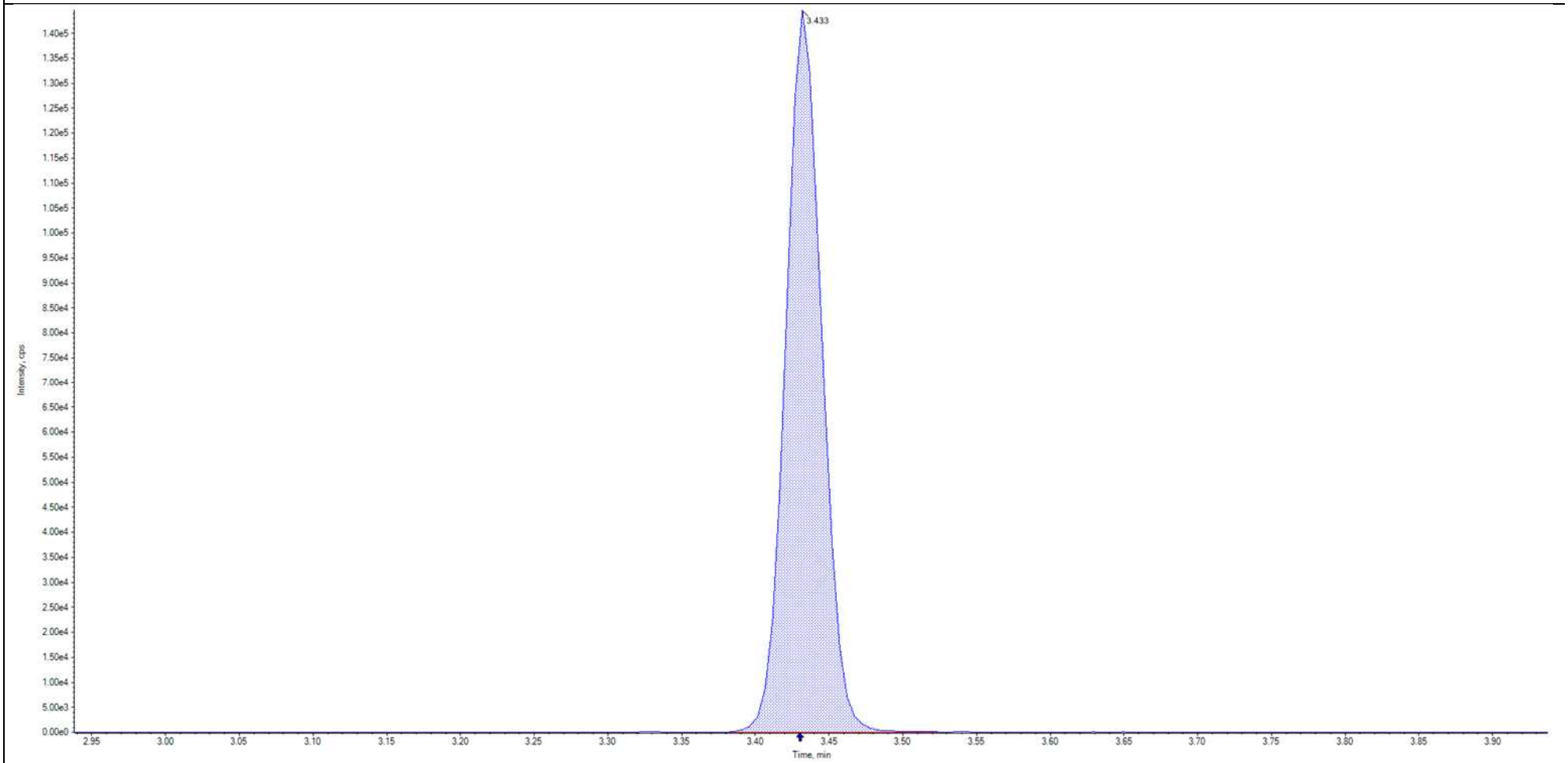


13C8-PFOA
Sample: IA1633STD-62.5

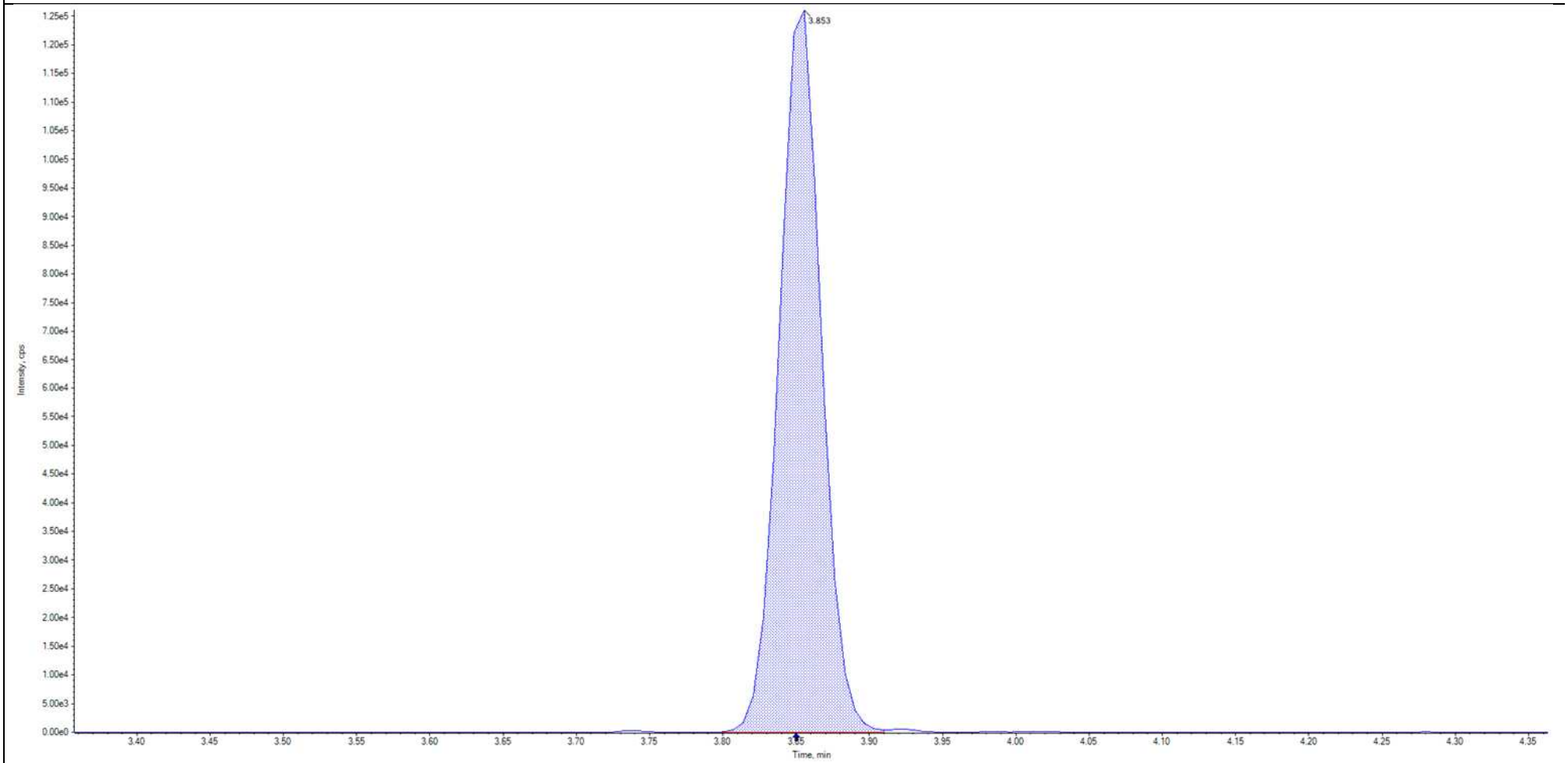


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Alpha Analytical LLC
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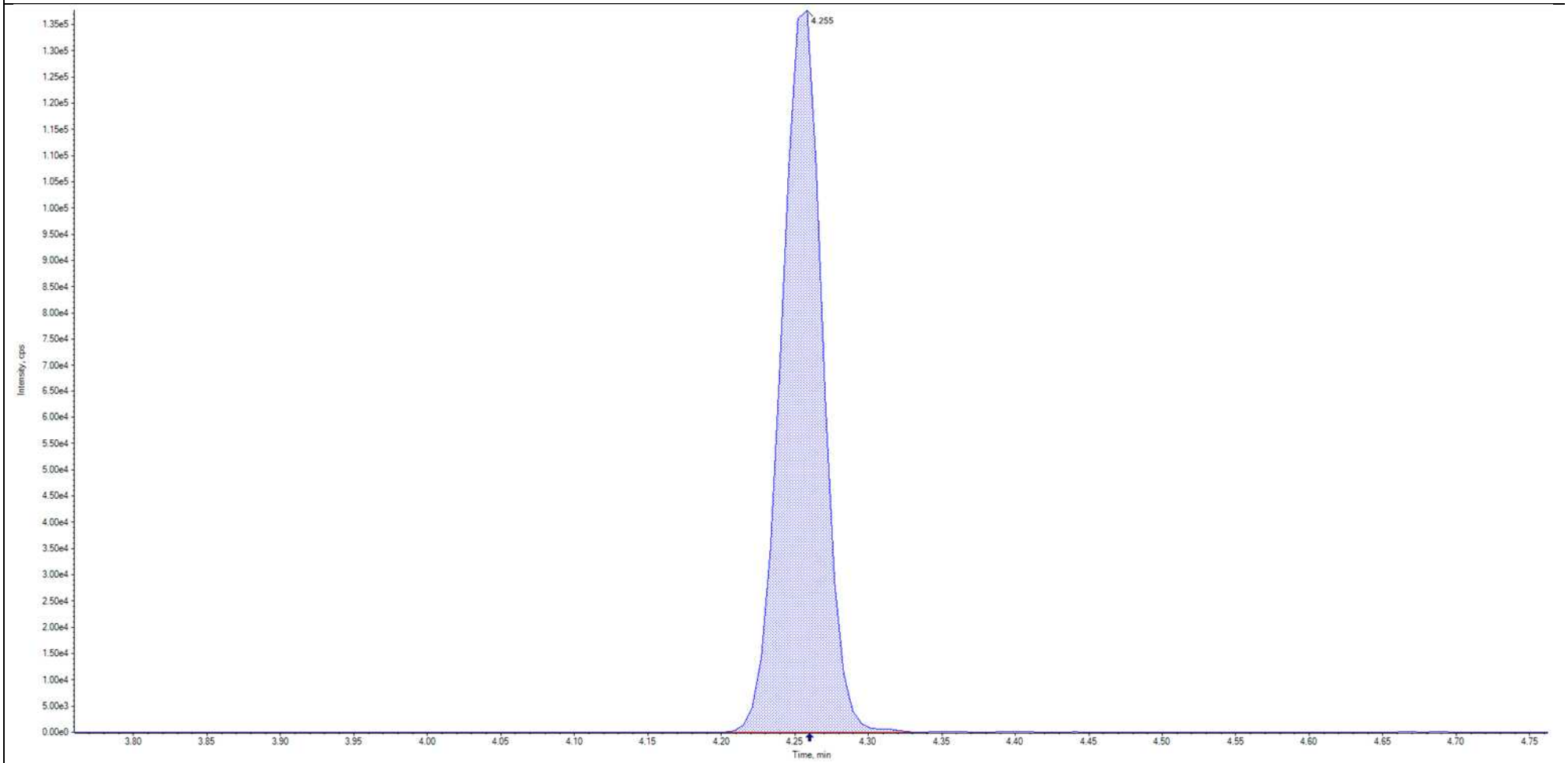
13C9-PFNA
Sample: IA1633STD-62.5



13C6-PFDA
Sample: IA1633STD-62.5

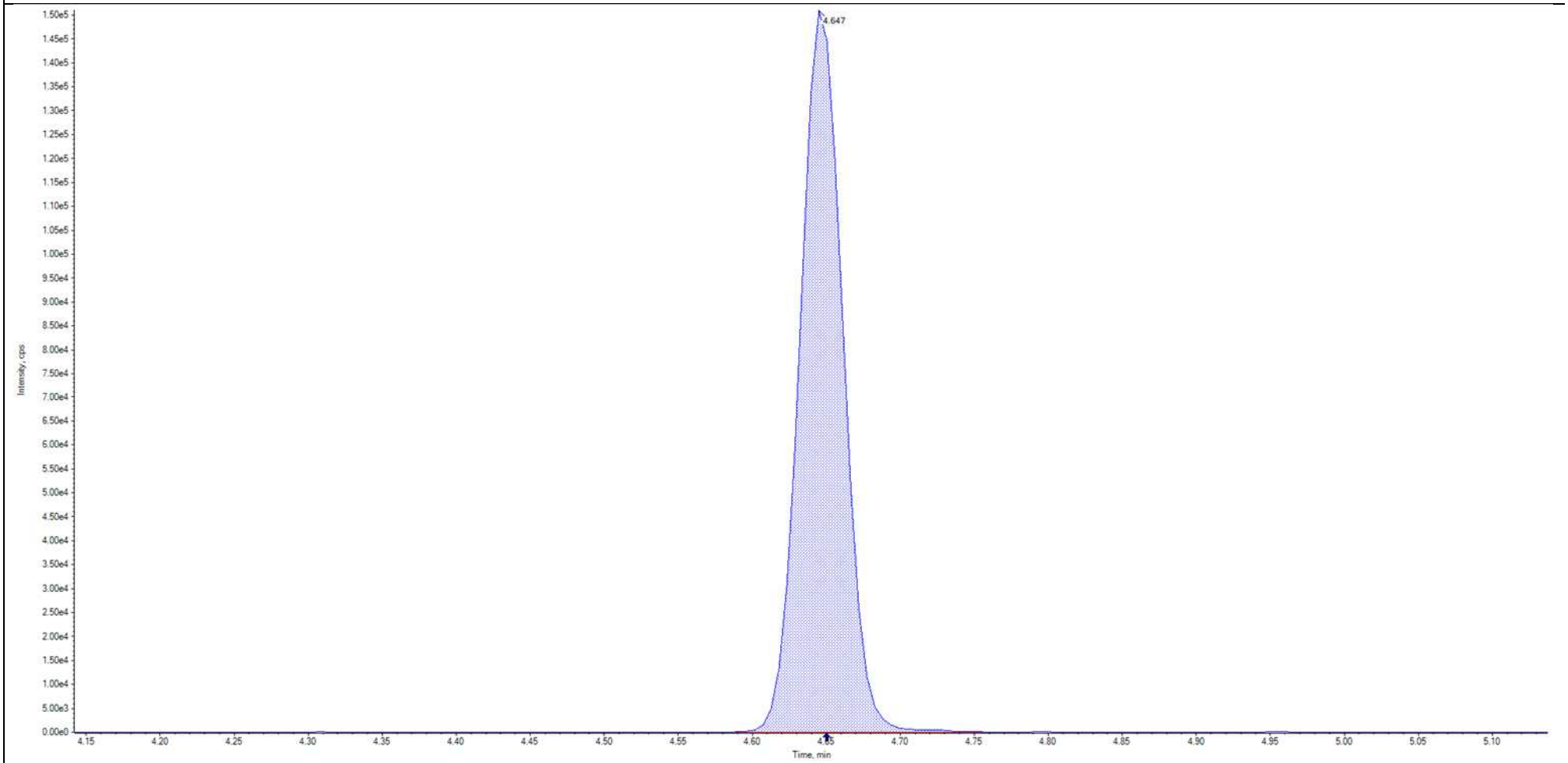


13C7-PFUnA
Sample: IA1633STD-62.5

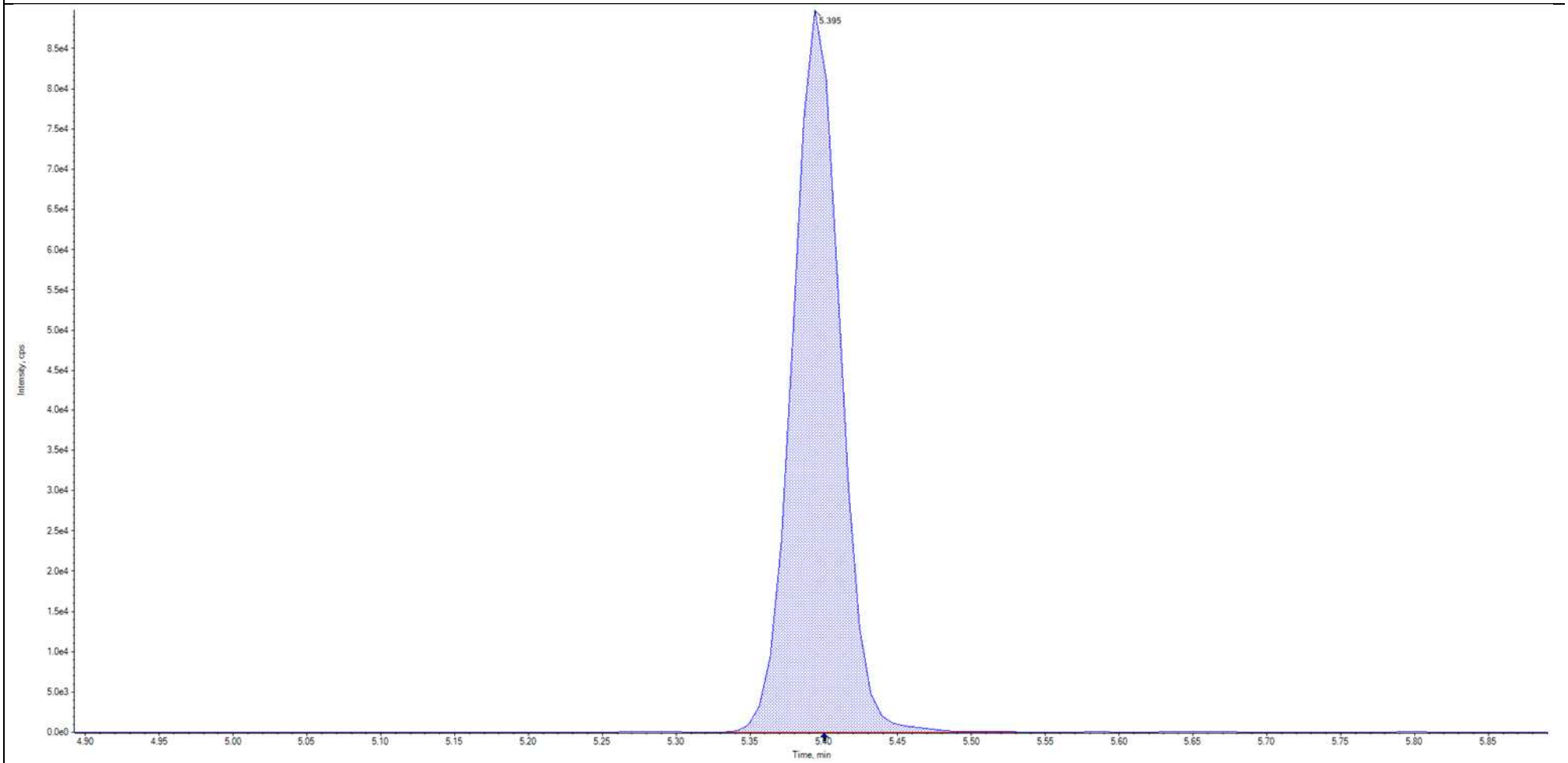


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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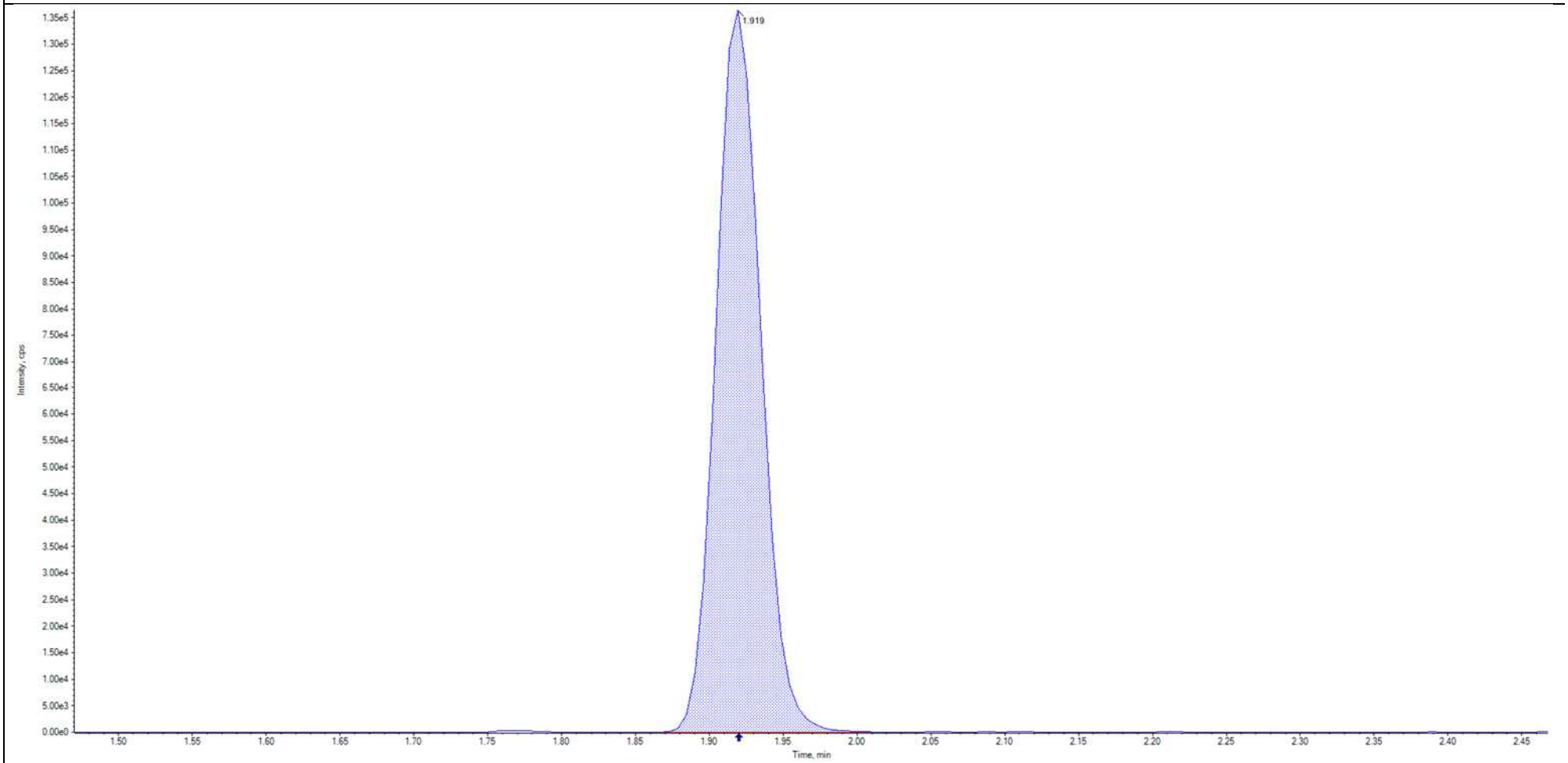
13C2-PFDoA
Sample: IA1633STD-62.5



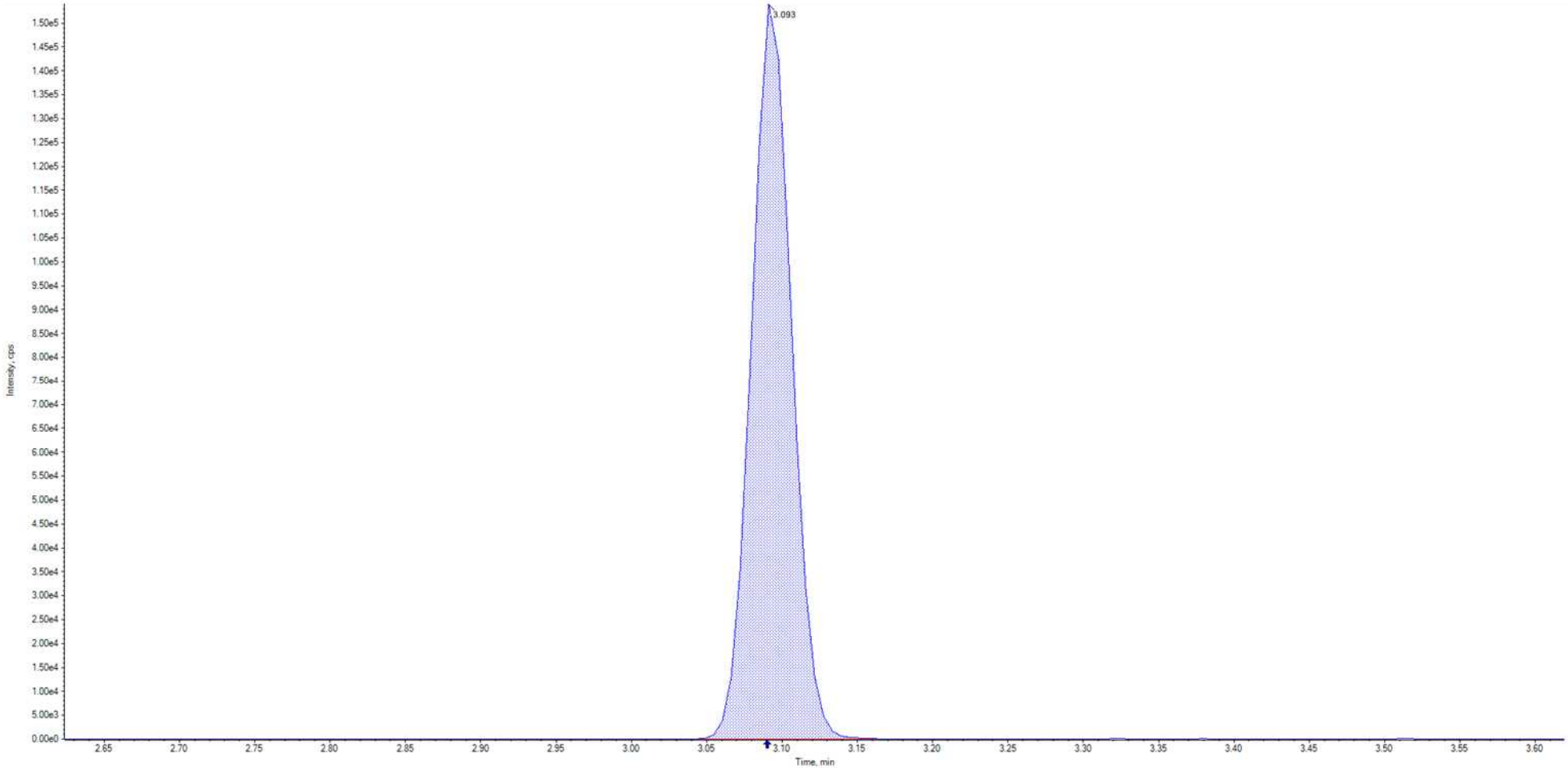
13C2-PFTeDA
Sample: IA1633STD-62.5



13C3-PFBS
Sample: IA1633STD-62.5

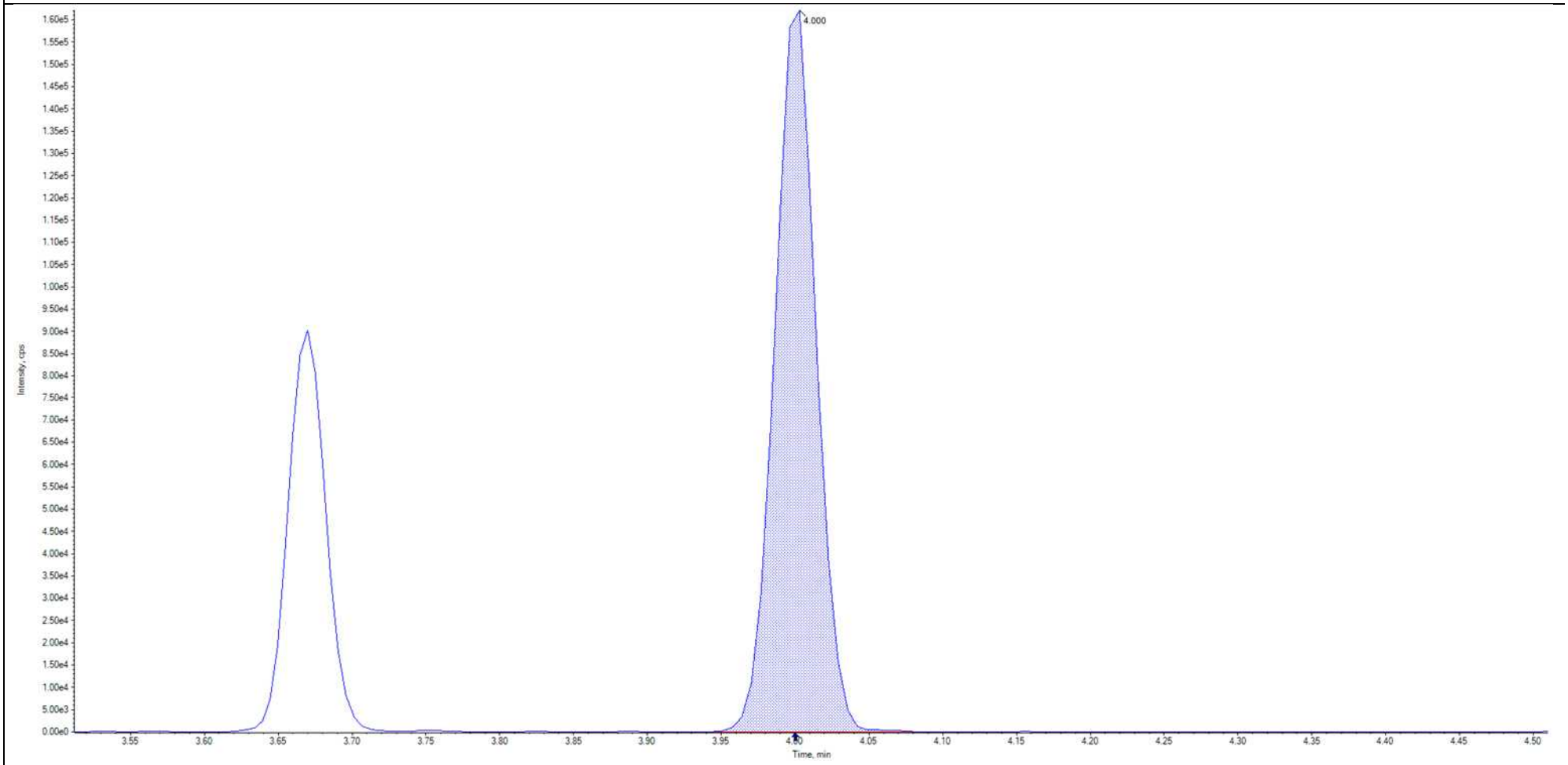


13C3-PFHxS
Sample: IA1633STD-62.5



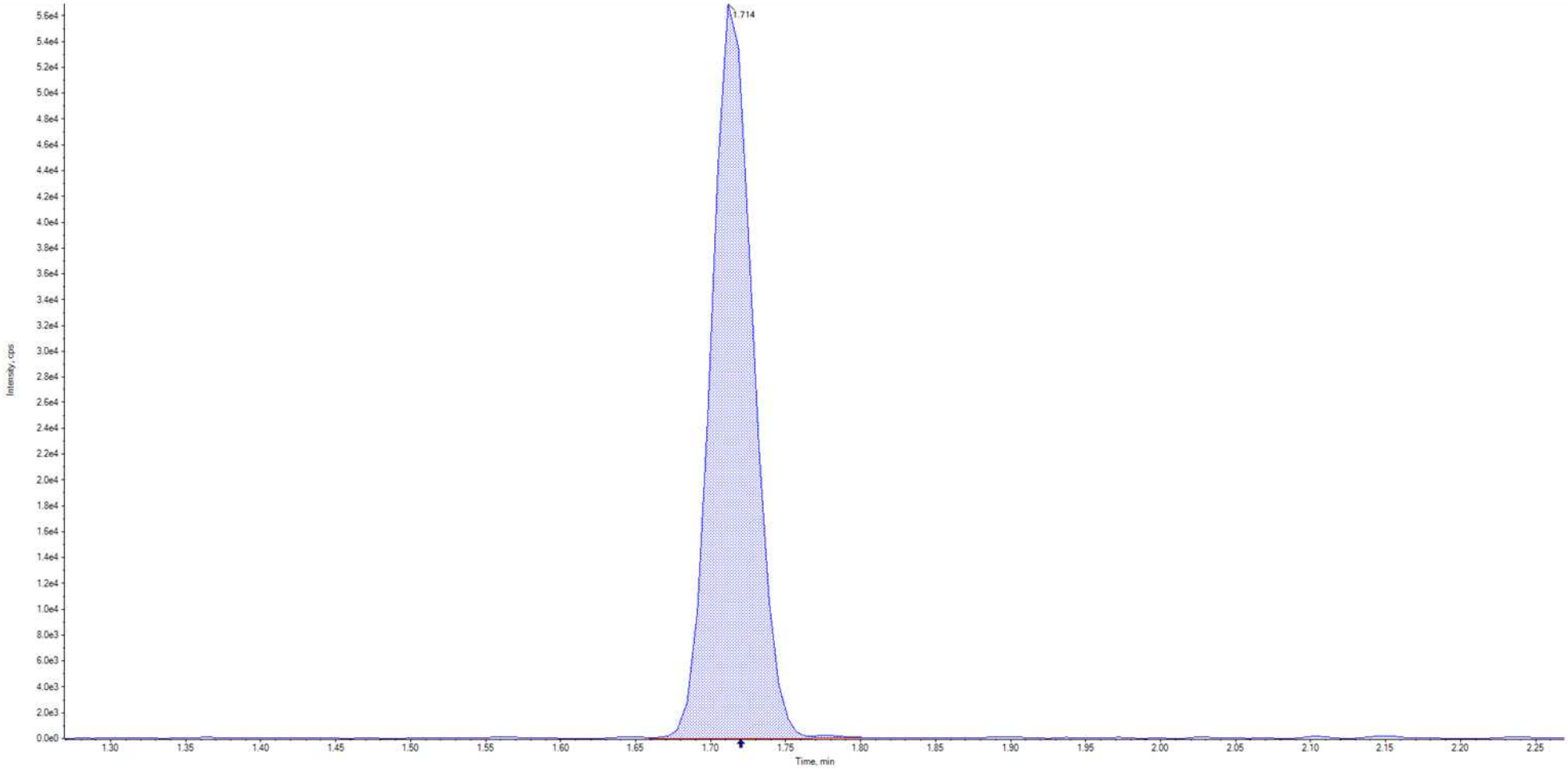
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_30.wiff2_9
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13C8-PFOS
Sample: IA1633STD-62.5

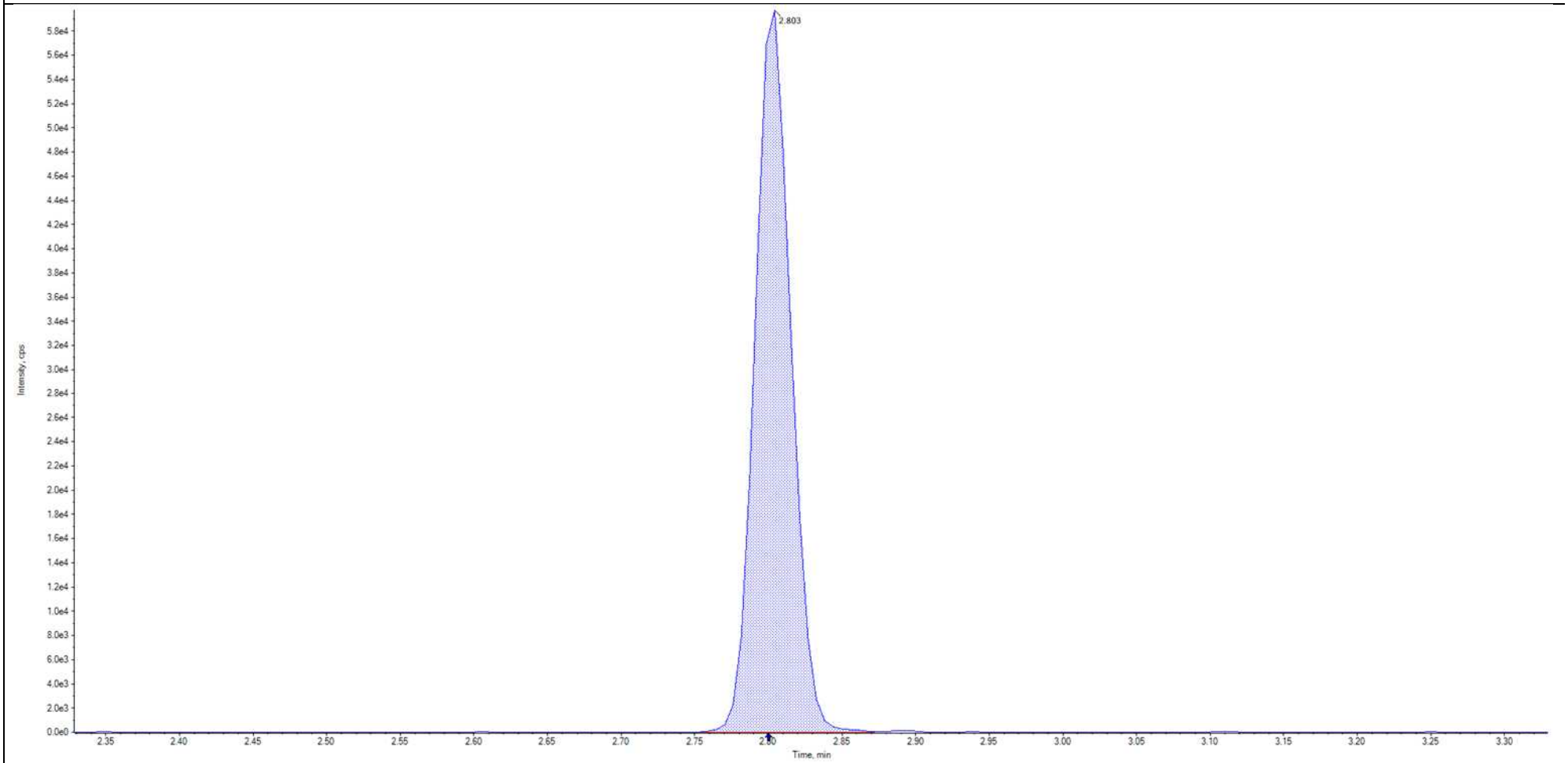


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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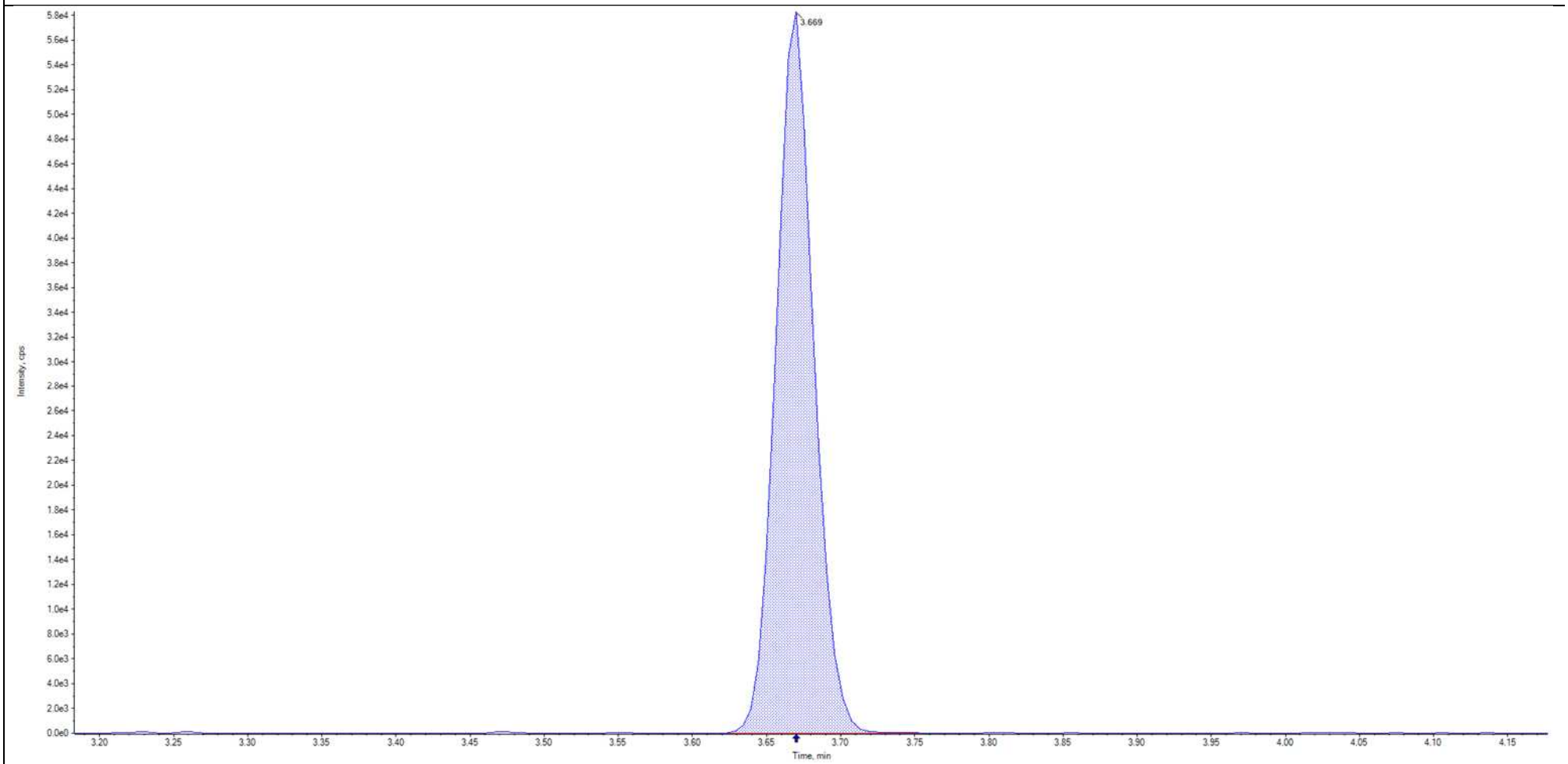
13C2-4:2FTS
Sample: IA1633STD-62.5



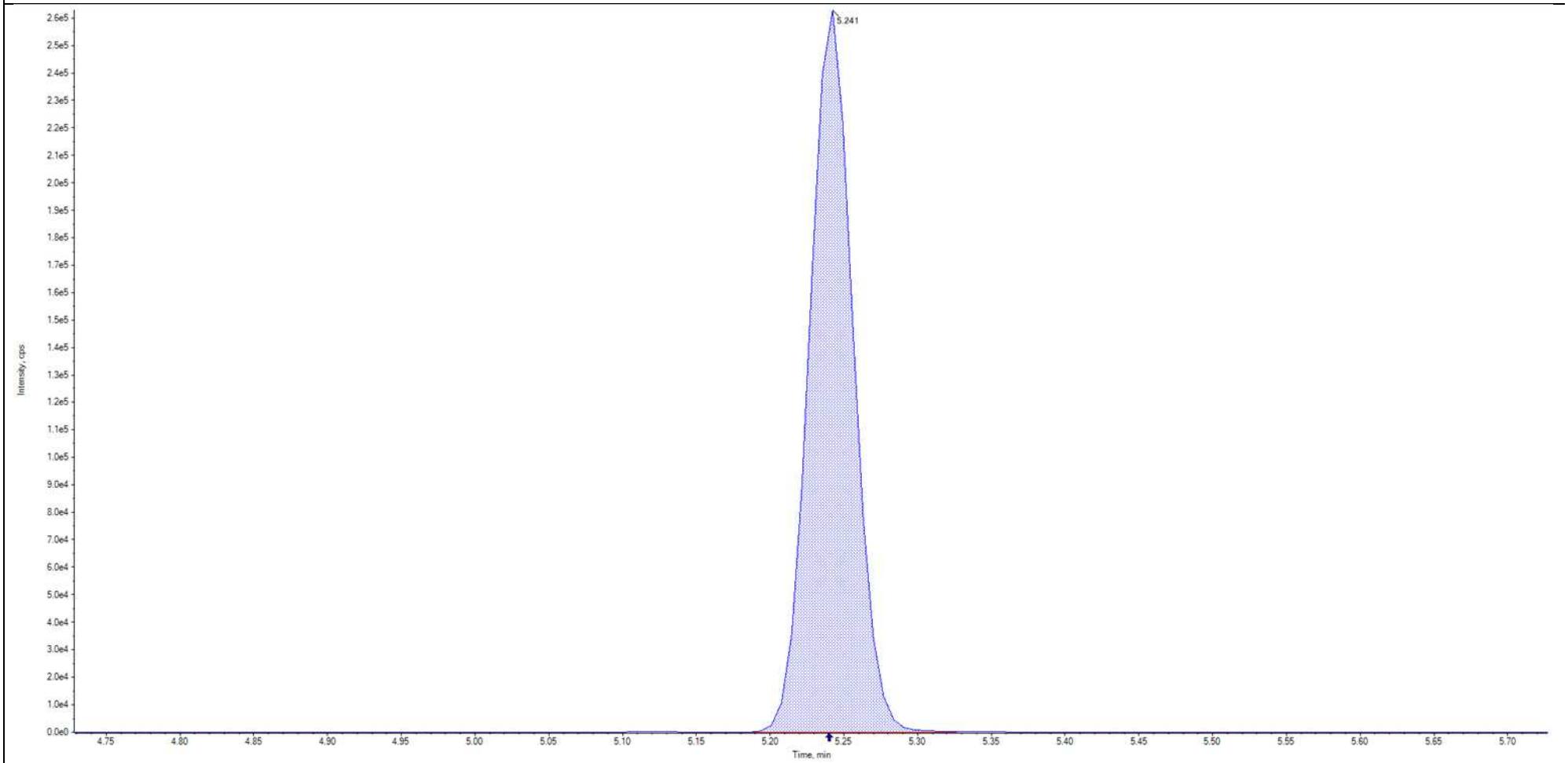
13C2-6:2FTS
Sample: IA1633STD-62.5



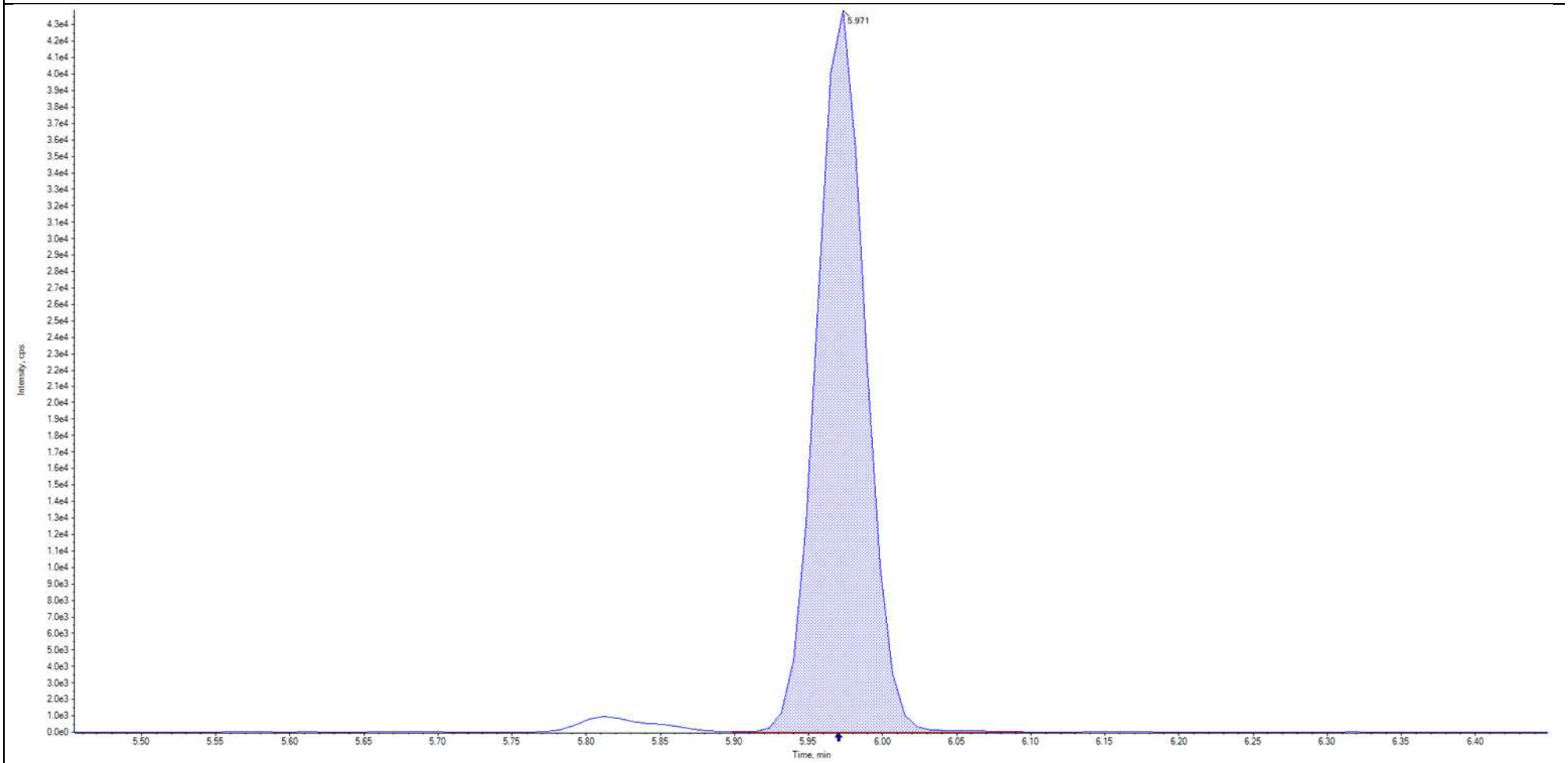
13C2-8:2FTS
Sample: IA1633STD-62.5



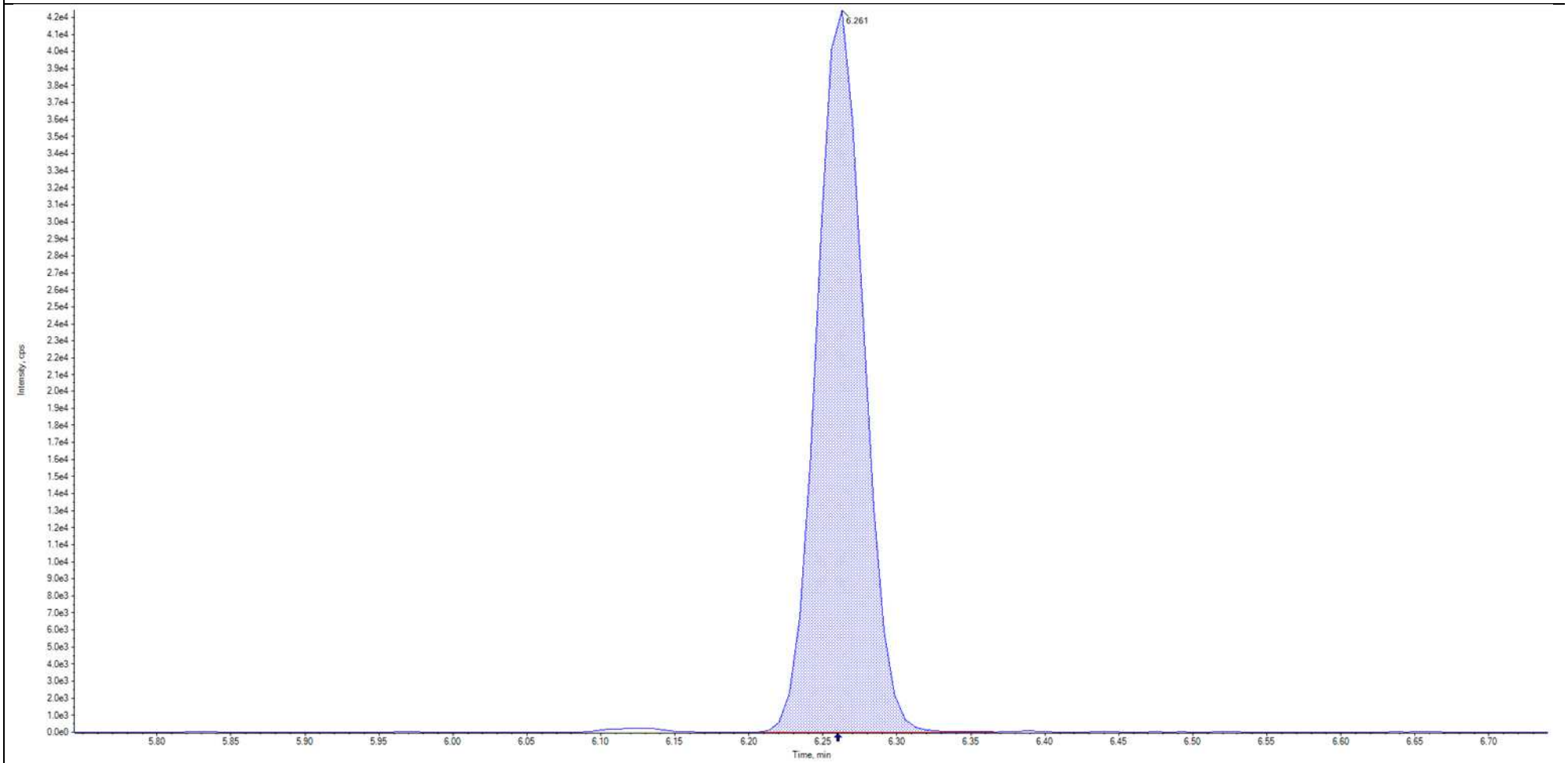
13C8-PFOSA
Sample: IA1633STD-62.5



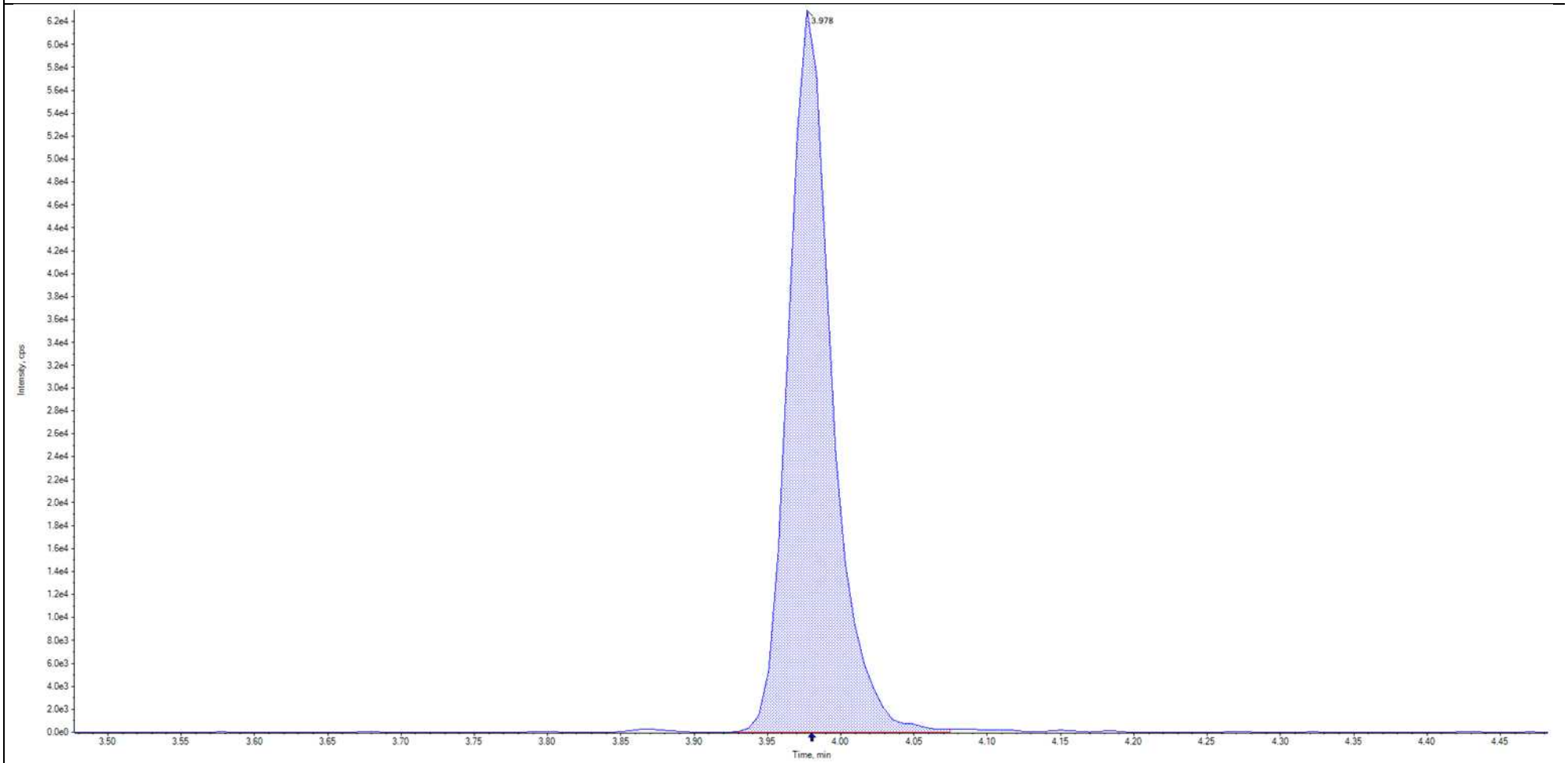
d3-NMeFOSA
Sample: IA1633STD-62.5



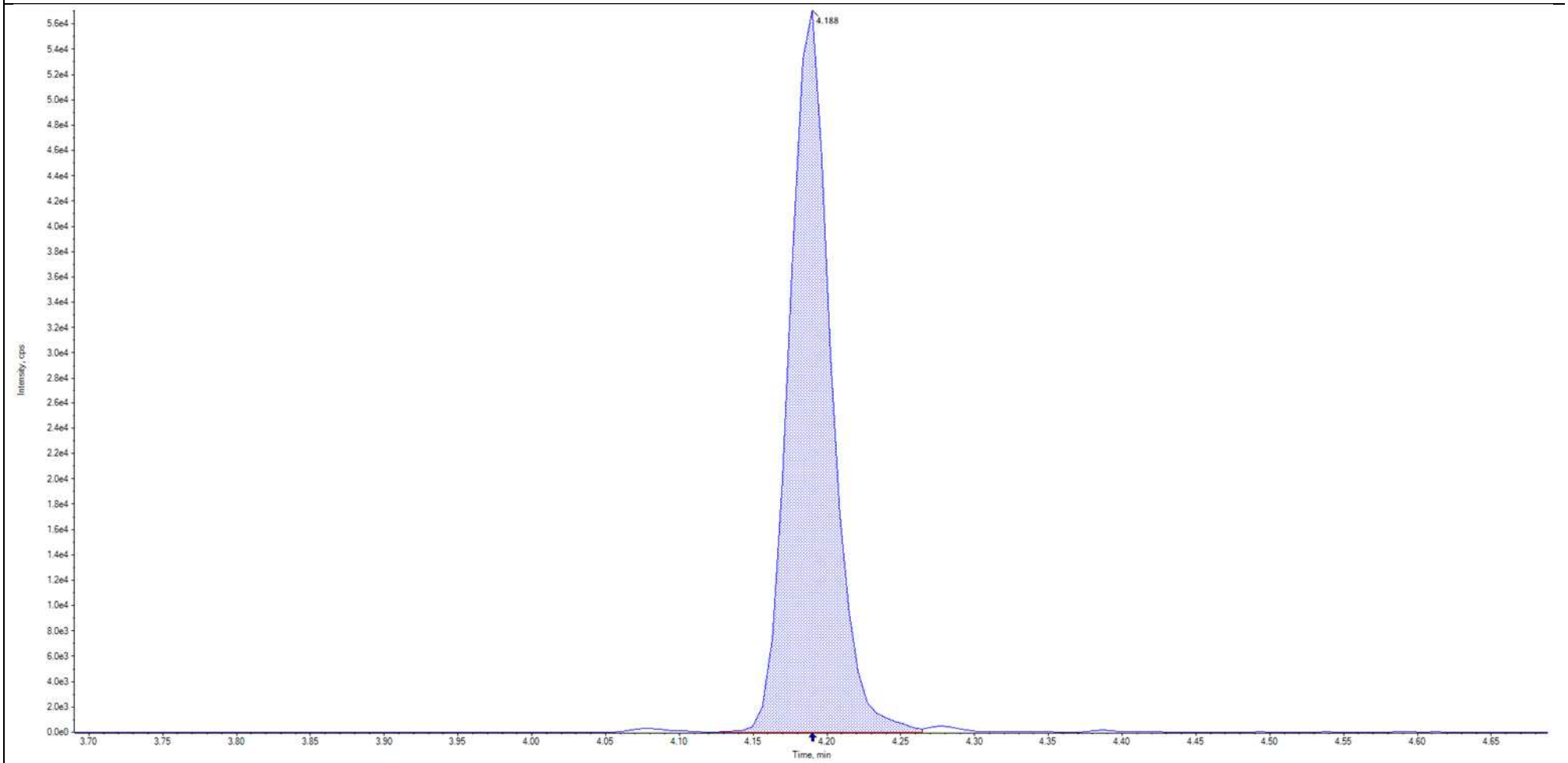
d5-NEtFOSA
Sample: IA1633STD-62.5



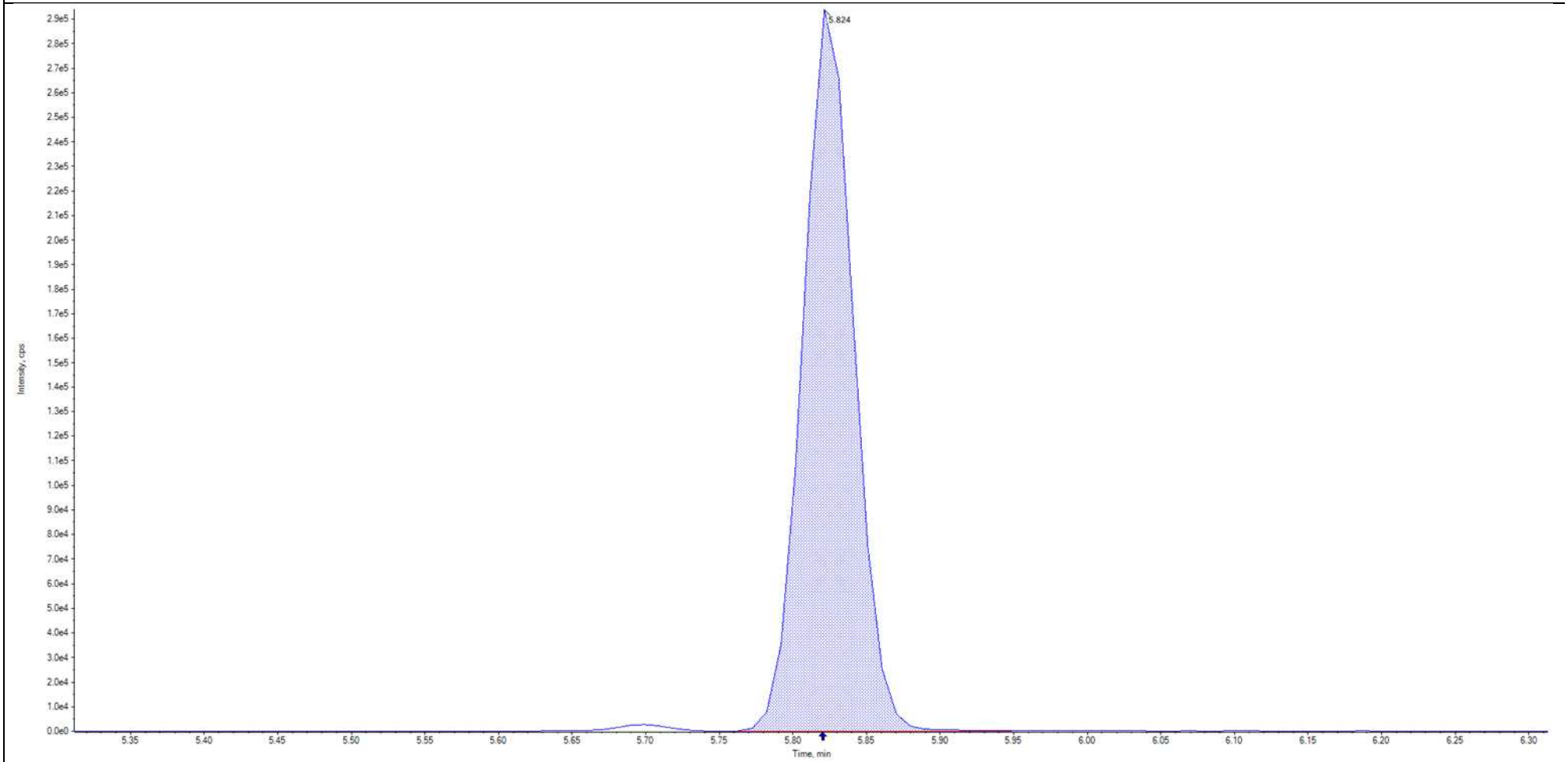
d3-NMeFOSAA
Sample: IA1633STD-62.5



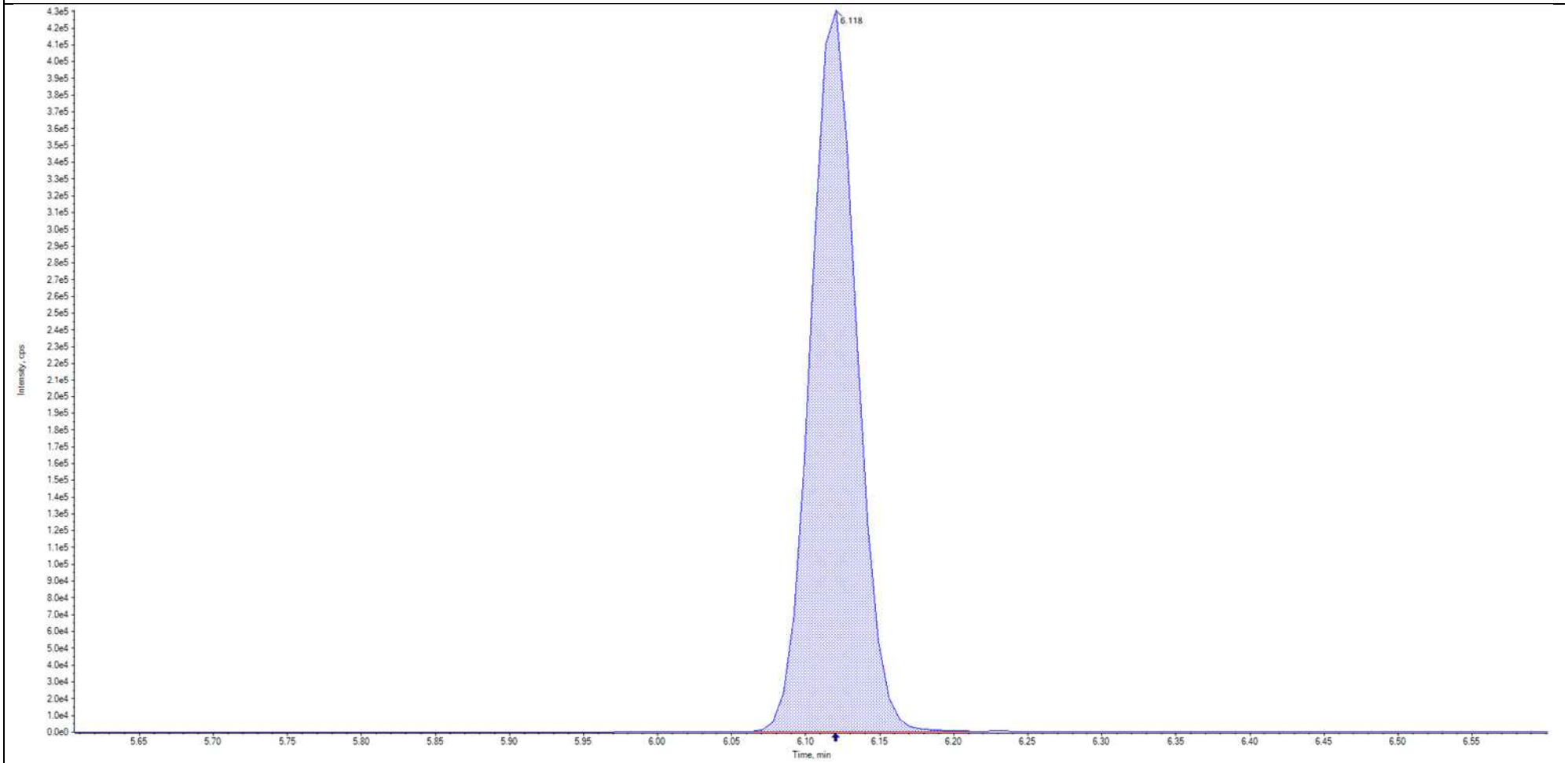
d5-NEtFOSAA
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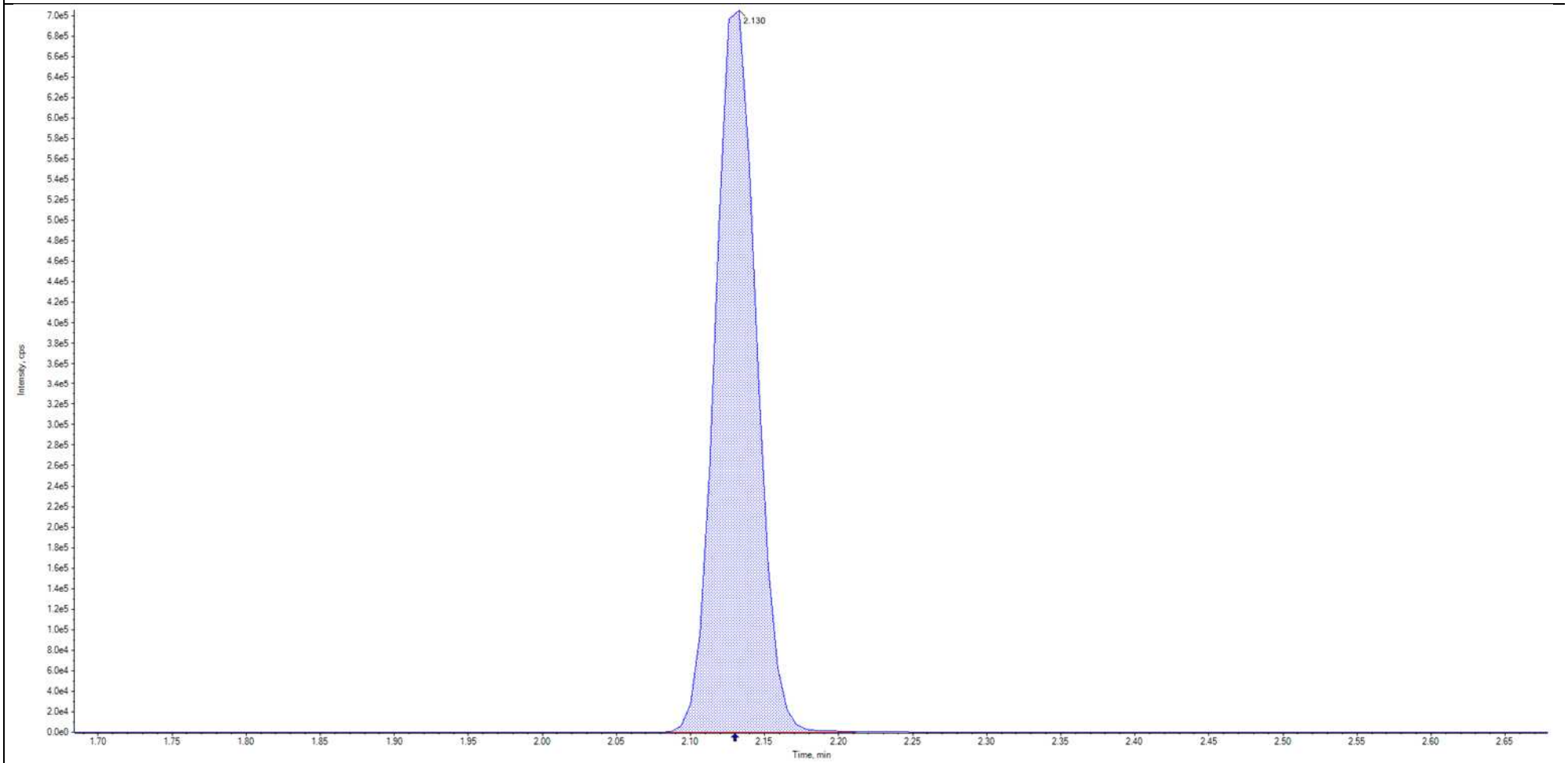
d7-NMeFOSE
Sample: IA1633STD-62.5



d9-NEtFOSE
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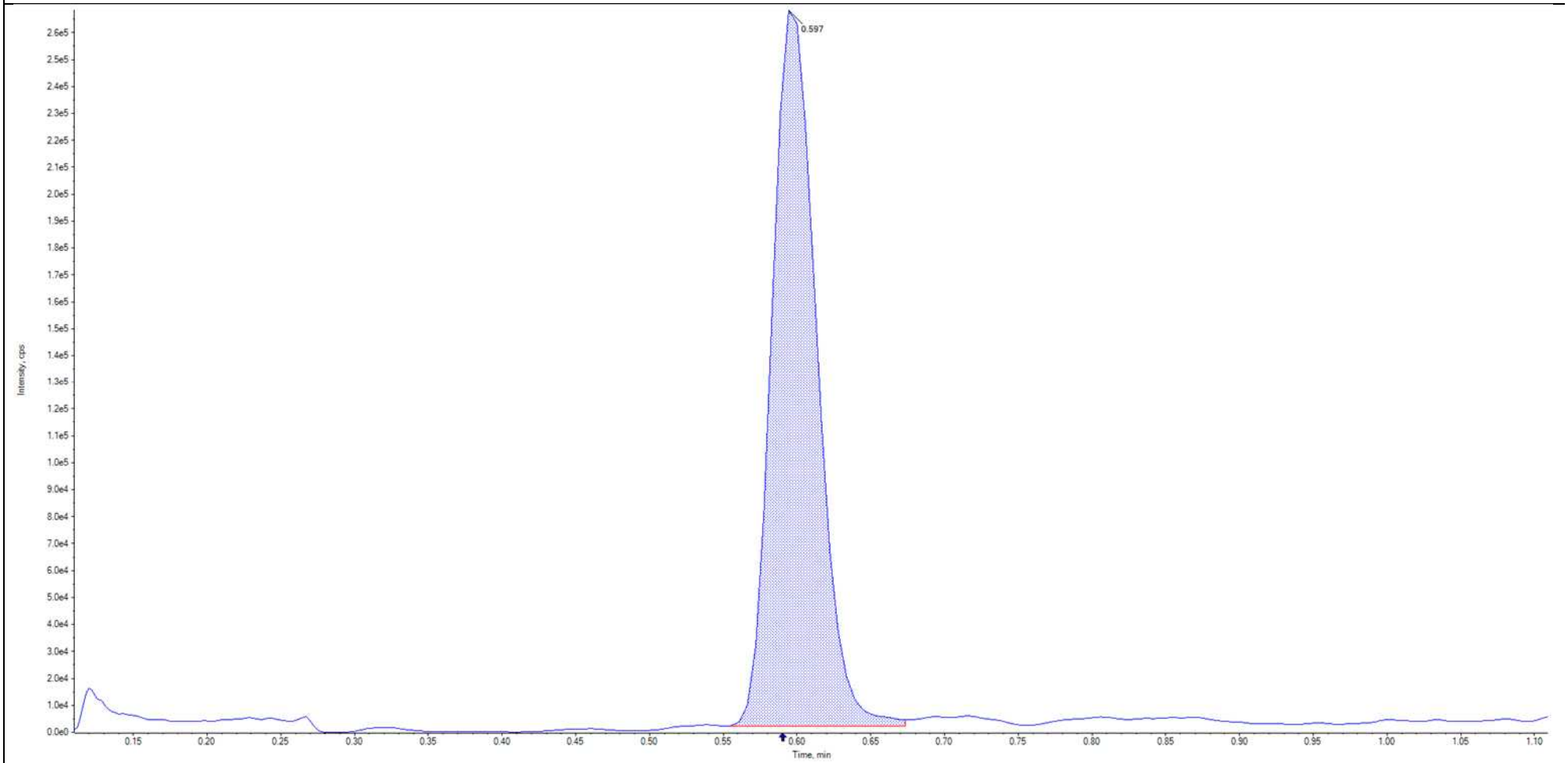


13C3-HFPO-DA
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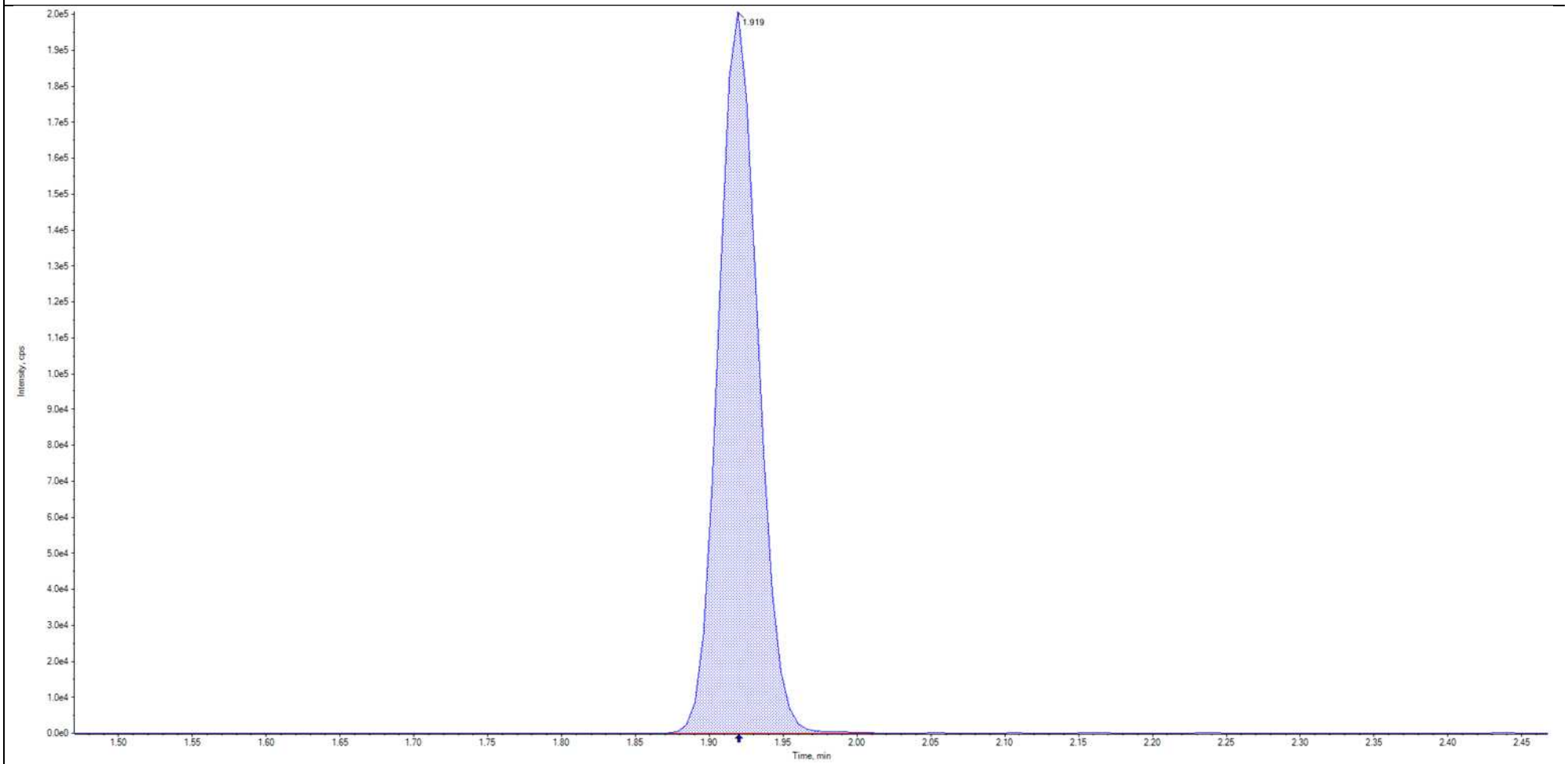
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13C3-PFBA
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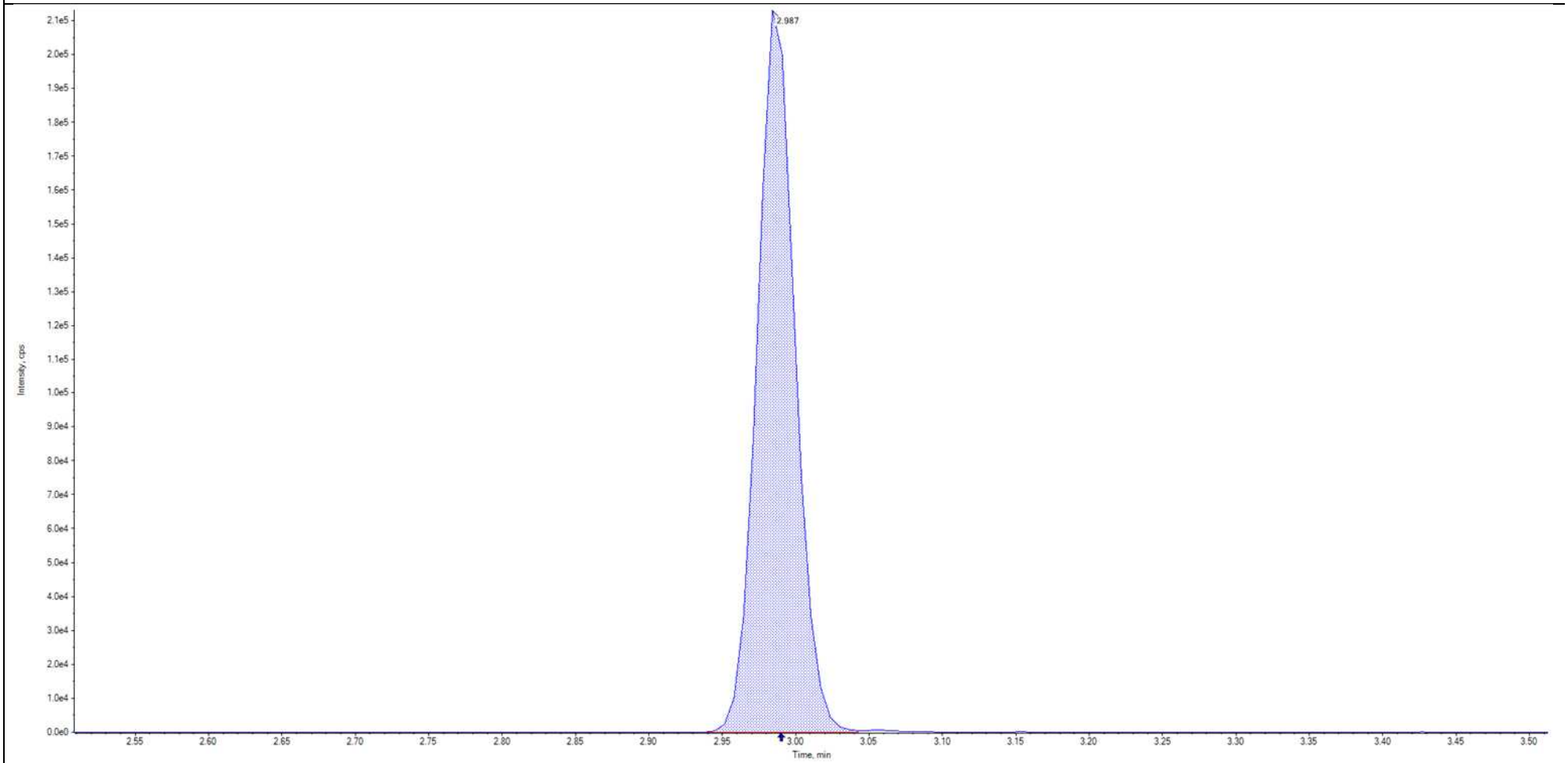


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13C2-PFHxA
Sample: IA1633STD-62.5

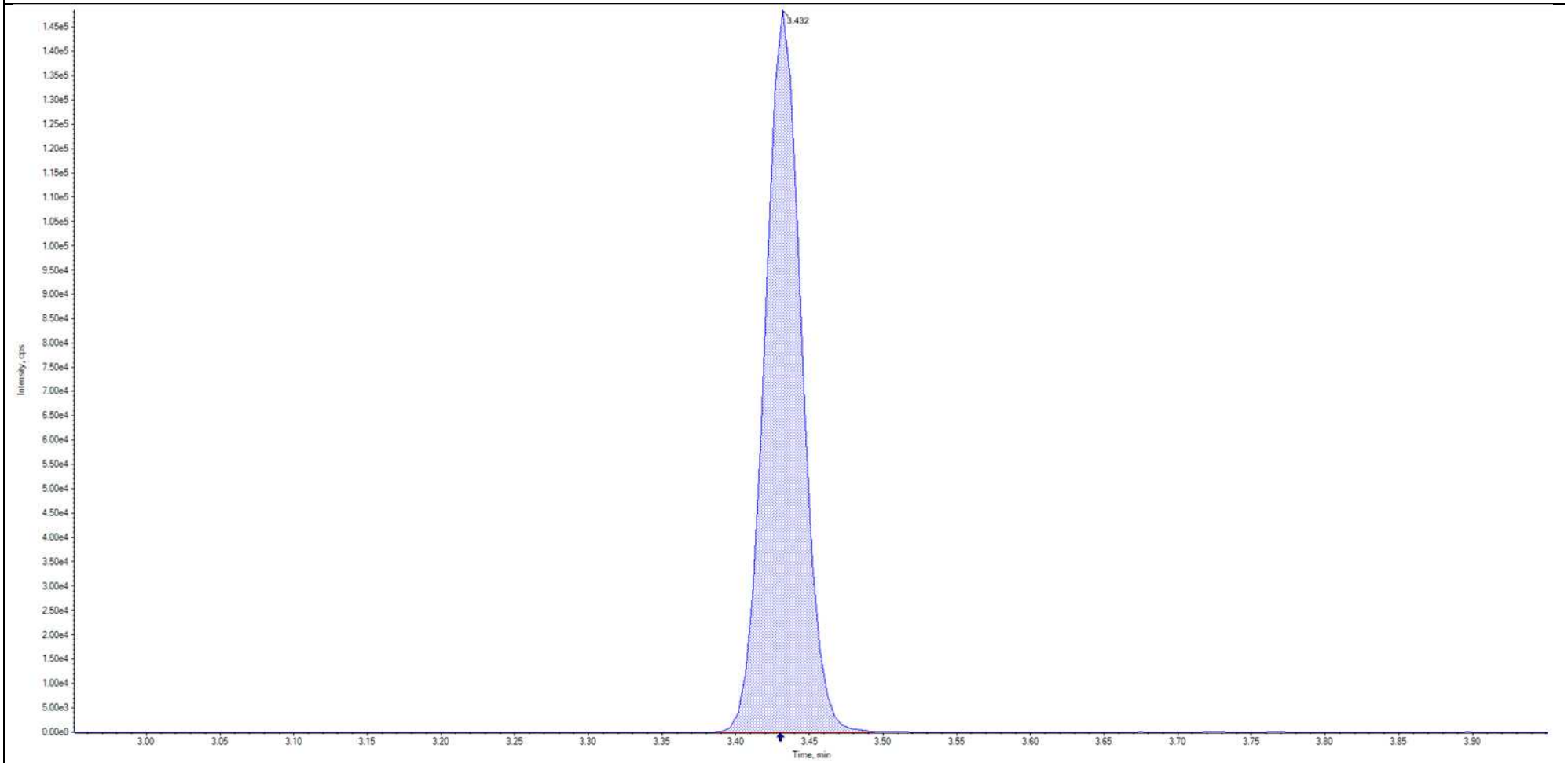


13C4-PFOA
Sample: IA1633STD-62.5



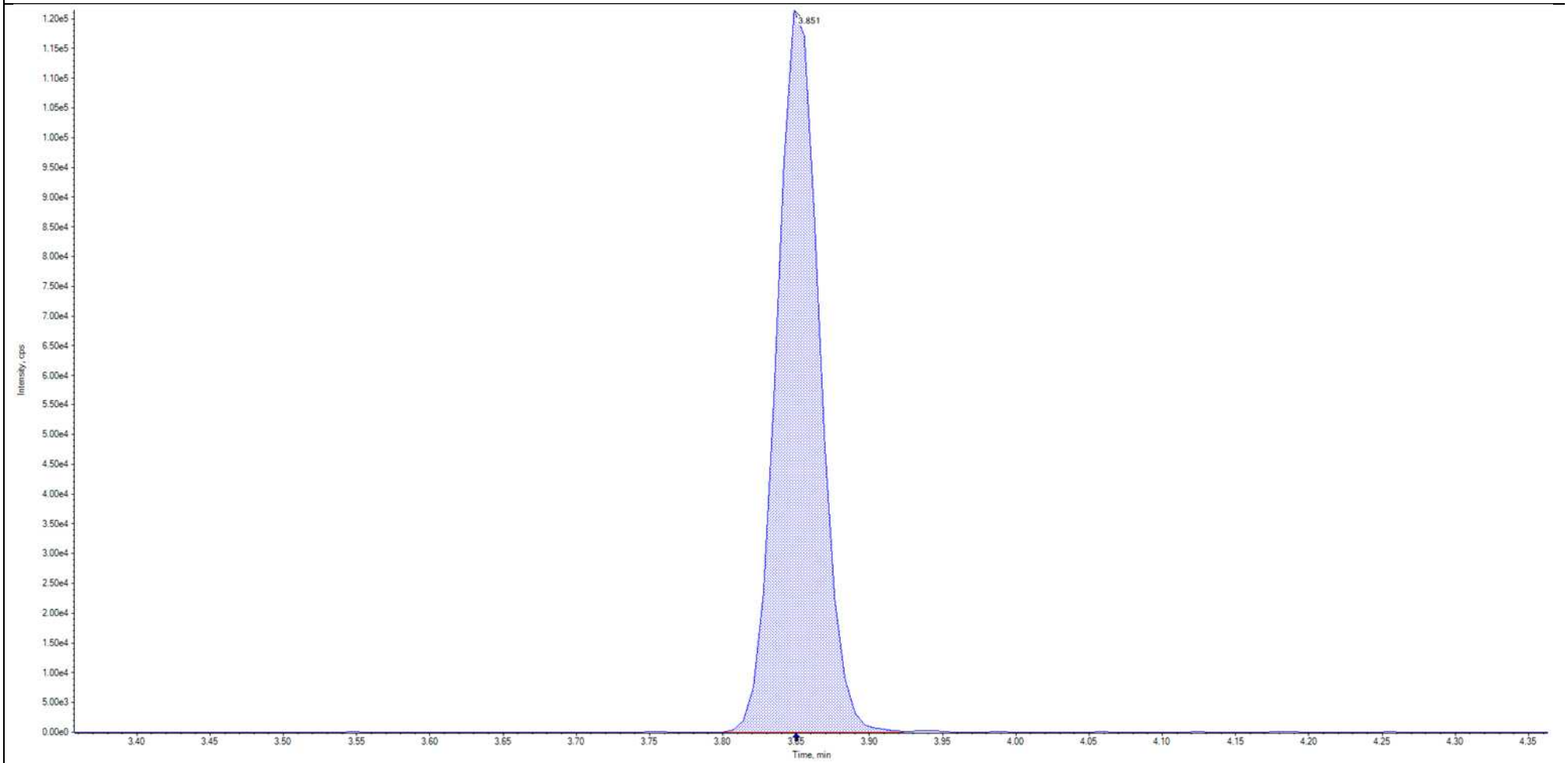
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13C5-PFNA
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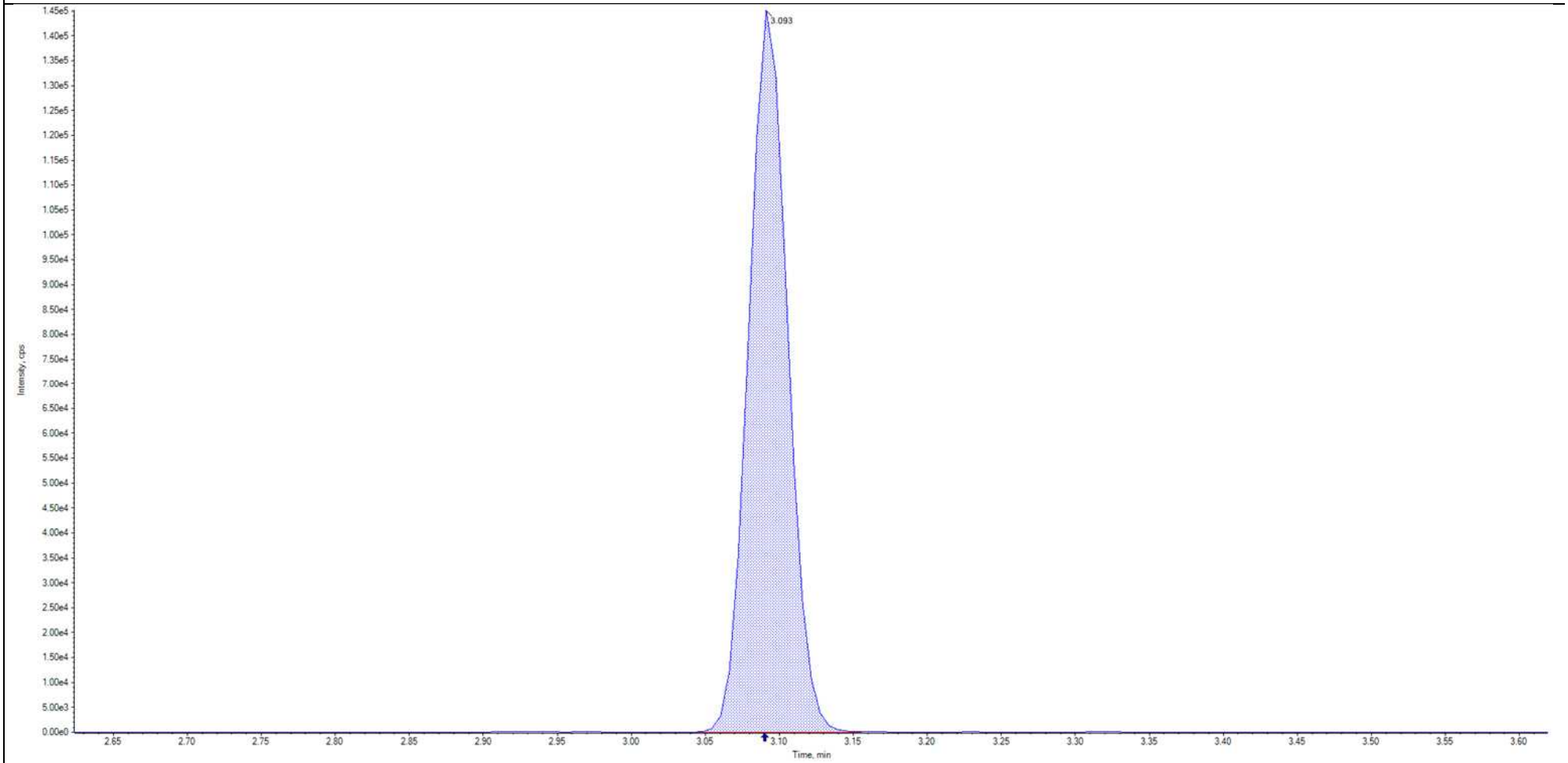


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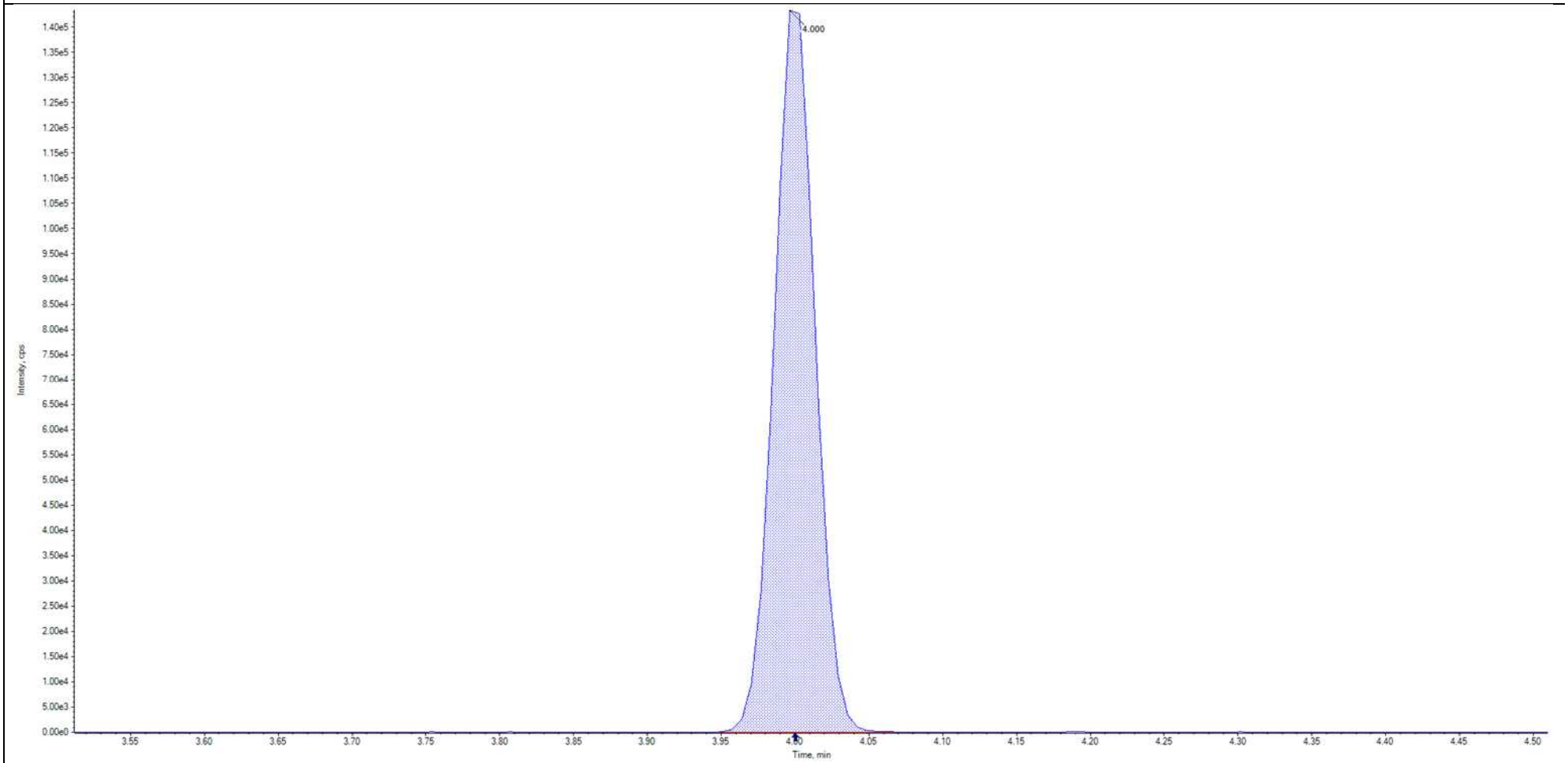
13C2-PFDA
Sample: IA1633STD-62.5



18O2-PFHxS
Sample: IA1633STD-62.5



13C4-PFOS
Sample: IA1633STD-62.5



Alpha Analytical LLC
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Instrument: SCIEX Triple Quad 5500+
User: LCMS09:JW

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.60	213.0 / 169.0	1475313		9.472	N/A	N/A	N/A	94.7
2	PFPeA	2706-90-3	1.18	263.0 / 219.0	1380377		9.445	0.007	N/A	N/A	94.5
3	PFPeA_2	2706-90-3	1.18	263.0 / 68.9	10261		10.011	0.007	N/A	N/A	100.1
4	PFHxA	307-24-4	1.92	313.0 / 269.0	1577944		8.560	0.089	0.081	Pass	85.6
5	PFHxA_2	307-24-4	1.92	313.0 / 119.0	139847		8.922	0.089	0.081	Pass	89.2
6	PFHpA	375-85-9	2.49	363.1 / 319.0	1501786		8.270	0.418	0.373	Pass	82.7
7	PFHpA_2	375-85-9	2.49	363.1 / 169.0	627621		8.754	0.418	0.373	Pass	87.5

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	2.99	413.1 / 369.1	1716678	M5	8.694	0.430	0.424	Pass	86.9
9	PFOA_2	335-67-1	2.99	413.1 / 169.0	737767	M5	8.828	0.430	0.424	Pass	88.3
10	PFNA	375-95-1	3.43	462.8 / 418.9	1377768		10.557	0.446	0.493	Pass	105.6
11	PFNA_2	375-95-1	3.43	462.8 / 219.0	614040		9.662	0.446	0.493	Pass	96.6
12	PFDA	335-76-2	3.85	513.1 / 469.1	1757210		9.557	0.196	0.188	Pass	95.6
13	PFDA_2	335-76-2	3.85	513.1 / 219.0	344375		10.172	0.196	0.188	Pass	101.7
14	PFUnA	2058-94-8	4.25	563.1 / 519.1	1837044		9.113	0.156	0.146	Pass	91.1
15	PFUnA_2	2058-94-8	4.25	563.1 / 269.0	286101		9.875	0.156	0.146	Pass	98.8
16	PFDoA	307-55-1	4.65	613.1 / 569.1	1922171		8.298	0.139	0.142	Pass	83.0
17	PFDoA_2	307-55-1	4.65	613.1 / 319.0	266429		8.345	0.139	0.142	Pass	83.5
18	PFTrDA	72629-94-8	5.03	663.1 / 619.1	1829768		8.991	0.151	0.152	Pass	89.9
19	PFTrDA_2	72629-94-8	5.02	663.1 / 169.0	276035		8.832	0.151	0.152	Pass	88.3
20	PFTeDA	376-06-7	5.39	713.1 / 669.1	1776155		9.950	0.156	0.154	Pass	99.5
21	PFTeDA_2	376-06-7	5.39	713.1 / 169.0	277139		9.509	0.156	0.154	Pass	95.1
22	PFBS	375-73-5	1.92	299.1 / 80.1	1636995		10.921	0.375	0.374	Pass	109.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.92	299.1 / 99.1	614141		11.749	0.375	0.374	Pass	117.5
24	PFPeS	2706-91-4	2.56	349.1 / 80.1	1704355		12.091	0.288	0.314	Pass	120.9
25	PFPeS_2	2706-91-4	2.56	349.1 / 99.1	490983		11.092	0.288	0.314	Pass	110.9
26	PFHxS	355-46-4	3.09	399.1 / 80.1	1417950	M5	11.014	0.296	0.306	Pass	110.1
27	PFHxS_2	355-46-4	3.09	399.1 / 99.1	419974		11.266	0.296	0.306	Pass	112.7
28	PFHpS	375-92-8	3.56	449.1 / 80.1	1285589		9.688	0.294	0.316	Pass	96.9
29	PFHpS_2	375-92-8	3.56	449.1 / 99.1	377799		9.305	0.294	0.316	Pass	93.1
30	PFOS	1763-23-1	4.00	499.1 / 80.1	1518989	M5	9.411	0.235	0.244	Pass	94.1
31	PFOS_2	1763-23-1	4.00	499.1 / 99.1	356972	M5	8.803	0.235	0.244	Pass	88.0
32	PFNS	68259-12-1	4.41	549.1 / 80.1	1168916		10.637	0.298	0.294	Pass	106.4
33	PFNS_2	68259-12-1	4.41	549.1 / 99.1	348918		11.107	0.298	0.294	Pass	111.1
34	PFDS	335-77-3	4.81	599.1 / 80.1	1134859		10.512	0.284	0.290	Pass	105.1
35	PFDS_2	335-77-3	4.81	599.1 / 99.1	322726		10.585	0.284	0.290	Pass	105.9
36	PFDoS	79780-39-5	5.55	699.2 / 80.1	1008639		10.254	0.258	0.256	Pass	102.5
37	PFDoS_2	79780-39-5	5.55	699.2 / 99.1	260045		10.257	0.258	0.256	Pass	102.6

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.71	327.1 / 307.1	358914		11.093	0.648	0.650	Pass	110.9
39	4:2FTS_2	757124-72-4	1.71	327.1 / 81.1	232447		11.131	0.648	0.650	Pass	111.3
40	6:2FTS	27619-97-2	2.80	427.2 / 407.2	312535		11.346	0.604	0.620	Pass	113.5
41	6:2FTS_2	27619-97-2	2.80	427.2 / 81.1	188761		10.692	0.604	0.620	Pass	106.9
42	8:2FTS	39108-34-4	3.67	527.2 / 507.2	257707		11.372	0.671	0.676	Pass	113.7
43	8:2FTS_2	39108-34-4	3.66	527.2 / 81.1	172809		11.078	0.671	0.676	Pass	110.8
44	PFOSA	754-91-6	5.24	498.1 / 78.1	1829359	M5	10.482	0.023	0.026	Pass	104.8
45	PFOSA_2	754-91-6	5.24	498.1 / 478.0	42126	M5	9.344	0.023	0.026	Pass	93.4
46	NMeFOSA	31506-32-8	5.98	512.2 / 219.0	393606		8.781	1.084	1.377	Pass	87.8
47	NMeFOSA_2	31506-32-8	5.97	512.2 / 169.0	426623		6.850	1.084	1.377	Pass	68.5
48	NEtFOSA	4151-50-2	6.27	526.2 / 219.0	411413		9.328	1.059	1.292	Pass	93.3
49	NEtFOSA_2	4151-50-2	6.27	526.2 / 169.0	435762		7.918	1.059	1.292	Pass	79.2
50	NMeFOSAA	2355-31-9	3.98	570.2 / 419.1	262546		9.816	0.725	0.697	Pass	98.2
51	NMeFOSAA_2	2355-31-9	3.98	570.2 / 483.0	190472		9.912	0.725	0.697	Pass	99.1
52	NEtFOSAA	2991-50-6	4.19	584.2 / 419.1	263151		10.486	0.567	0.557	Pass	104.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.19	584.2 / 526.2	149260	M5	10.790	0.567	0.557	Pass	107.9
54	NMeFOSE	24448-09-7	5.84	616.1 / 58.9	678258		10.502	N/A	N/A	N/A	105.0
55	NEtFOSE	1691-99-2	6.14	630.0 / 58.9	977045		10.911	N/A	N/A	N/A	109.1
56	HFPO-DA	13252-13-6	2.13	285.0 / 169.0	1686143		12.079	0.528	0.501	Pass	120.8
57	HFPO-DA_2	13252-13-6	2.13	285.0 / 184.9	891030		12.106	0.528	0.501	Pass	121.1
58	ADONA	919005-14-4	2.68	376.9 / 251.0	3084633		11.525	0.625	0.691	Pass	115.3
59	ADONA_2	919005-14-4	2.68	376.9 / 84.8	1928078		10.873	0.625	0.691	Pass	108.7
60	9Cl-PF3ONS	756426-58-1	4.28	530.8 / 351.1	3198030		11.627	0.321	0.332	Pass	116.3
61	9Cl-PF3ONS_2	756426-58-1	4.28	532.8 / 353.0	1025682		11.219	0.321	0.332	Pass	112.2
62	11Cl-PF3OUdS	763051-92-9	5.07	630.9 / 451.0	2576664		11.078	0.321	0.322	Pass	110.8
63	11Cl-PF3OUdS_2	763051-92-9	5.07	632.9 / 452.9	827957		11.090	0.321	0.322	Pass	110.9
64	3:3FTCA	356-02-5	1.56	241.1 / 177.1	122170		10.826	1.030	1.010	Pass	108.3
65	3:3FTCA_2	356-02-5	1.56	241.1 / 117.0	125888		10.274	1.030	1.010	Pass	102.7
66	5:3FTCA	914637-49-3	3.03	341.1 / 237.1	471979		10.239	1.009	1.017	Pass	102.4
67	5:3FTCA_2	914637-49-3	3.03	341.1 / 217.0	476182		10.253	1.009	1.017	Pass	102.5

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.06	441.1 / 316.9	364095		10.279	1.468	1.343	Pass	102.8
69	7:3FTCA_2	812-70-4	4.06	441.1 / 337.1	534462		11.414	1.468	1.343	Pass	114.1
70	PFEESA	113507-82-7	2.22	315.1 / 135.0	4310600		8.998	0.083	0.081	Pass	90.0
71	PFEESA_2	113507-82-7	2.22	315.1 / 82.9	357688		9.078	0.083	0.081	Pass	90.8
72	PFMPA	377-73-1	0.75	229.0 / 85.0	1399930		8.593	N/A	N/A	N/A	85.9
73	PFMBA	863090-89-5	1.44	279.0 / 85.0	1526493		9.126	N/A	N/A	N/A	91.3
74	NFDHA	151772-58-6	1.84	295.0 / 201.0	1296479		10.339	0.666	0.681	Pass	103.4
75	NFDHA_2	151772-58-6	1.84	295.0 / 84.9	863287		9.727	0.666	0.681	Pass	97.3
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	1.70	333.2 / 312.1	122595		4.813	N/A	N/A	N/A	96.3
79	13C2-PFOA	Surr	2.98	415.0 / 370.0	295994		2.161	N/A	N/A	N/A	86.5

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.59	217.0 / 172.0	1742788		9.825	NA	NA	NA	98.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.17	268.0 / 223.0	761418		5.221	NA	NA	NA	104.4
	13C5-PFHxA	EIS	1.91	318.0 / 273.0	359877		2.625	NA	NA	NA	105.0
	13C4-PFHpA	EIS	2.49	367.0 / 322.0	312732		2.364	NA	NA	NA	94.6
	13C8-PFOA	EIS	2.98	420.8 / 376.0	577550		2.345	NA	NA	NA	93.8
	13C9-PFNA	EIS	3.43	472.0 / 427.0	241944		1.181	NA	NA	NA	94.5
	13C6-PFDA	EIS	3.85	519.0 / 474.0	259975		1.178	NA	NA	NA	94.2
	13C7-PFUnA	EIS	4.25	570.0 / 525.0	297623		1.222	NA	NA	NA	97.8

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.64	615.1 / 570.0	306428		1.251	NA	NA	NA	100.1
	13C2-PFTeDA	EIS	5.39	715.1 / 670.1	196326		1.236	NA	NA	NA	98.9
	13C3-PFBS	EIS	1.91	302.1 / 80.1	328768		2.276	NA	NA	NA	97.7
	13C3-PFHxS	EIS	3.09	402.1 / 80.1	294599		2.294	NA	NA	NA	96.8
	13C8-PFOS	EIS	3.99	507.1 / 80.1	338570		2.420	NA	NA	NA	100.8
	13C2-4:2FTS	EIS	1.71	329.1 / 81.1	98594		4.628	NA	NA	NA	98.7
	13C2-6:2FTS	EIS	2.80	429.2 / 81.1	81511		4.444	NA	NA	NA	93.4
	13C2-8:2FTS	EIS	3.66	529.2 / 81.1	81744		4.402	NA	NA	NA	91.7

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.23	506.1 / 78.1	544867		2.453	NA	NA	NA	98.1
d3-NMeFOSA	EIS	5.96	515.2 / 219.0	99972		2.493	NA	NA	NA	99.7
d5-NEtFOSA	EIS	6.26	531.2 / 219.0	90509		2.482	NA	NA	NA	99.3
d3-NMeFOSAA	EIS	3.98	573.2 / 419.1	147120		5.361	NA	NA	NA	107.2
d5-NEtFOSAA	EIS	4.18	589.3 / 419.1	115752		5.278	NA	NA	NA	105.6
d7-NMeFOSE	EIS	5.82	623.2 / 58.9	712694		24.703	NA	NA	NA	98.8
d9-NEtFOSE	EIS	6.11	639.2 / 58.9	947981		24.495	NA	NA	NA	98.0

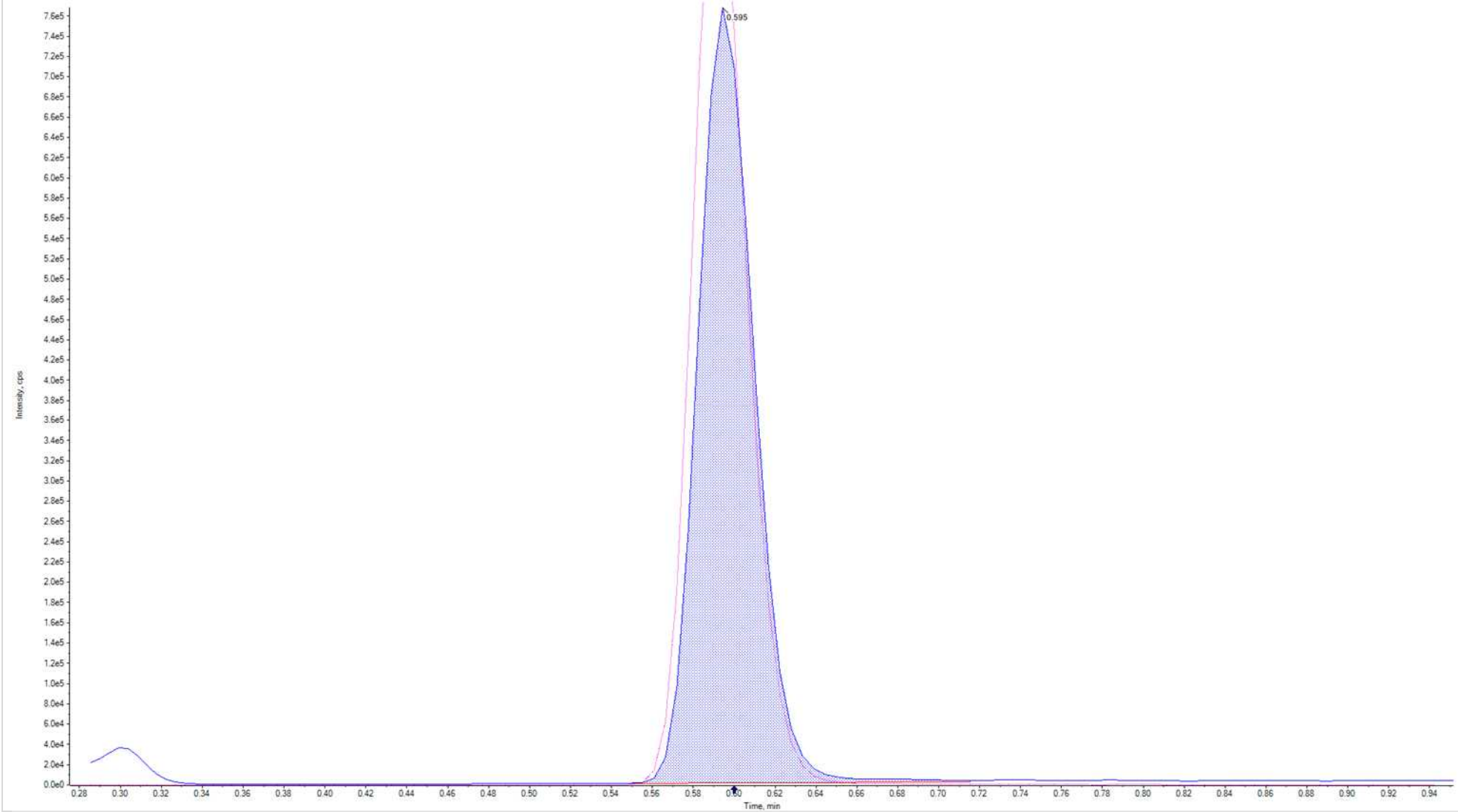
	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.12	287.0 / 169.0	1377490		9.498	NA	NA	NA	95.0
	13C3-PFBA	NIS	0.59	216.0 / 172.0	784842		5.415	NA	NA	NA	108.3
	13C2-PFHxA	NIS	1.91	315.0 / 270.0	403737		2.491	NA	NA	NA	99.6
	13C4-PFOA	NIS	2.98	417.0 / 372.0	374223		2.603	NA	NA	NA	104.1
	13C5-PFNA	NIS	3.42	468.0 / 423.0	256661		1.245	NA	NA	NA	99.6
	13C2-PFDA	NIS	3.85	515.1 / 470.1	257551		1.211	NA	NA	NA	96.9
	18O2-PFHxS	NIS	3.09	403.1 / 84.1	270026		2.294	NA	NA	NA	96.8
	13C4-PFOS	NIS	3.99	503.1 / 80.1	281465		2.341	NA	NA	NA	97.6

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

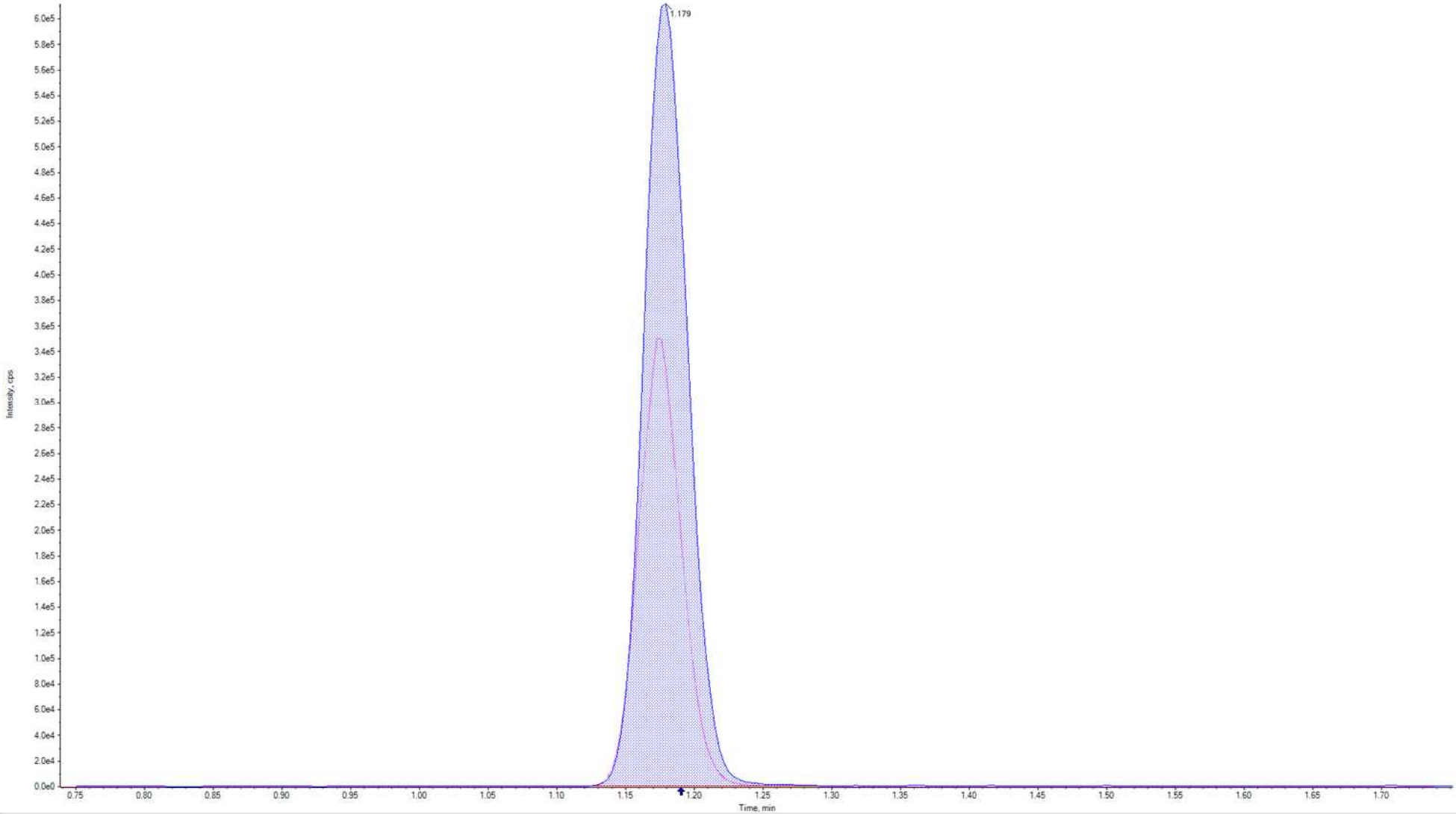
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

PFBA
Sample: CA1633STD-10 S/N:1282.4 Points Across peak:40



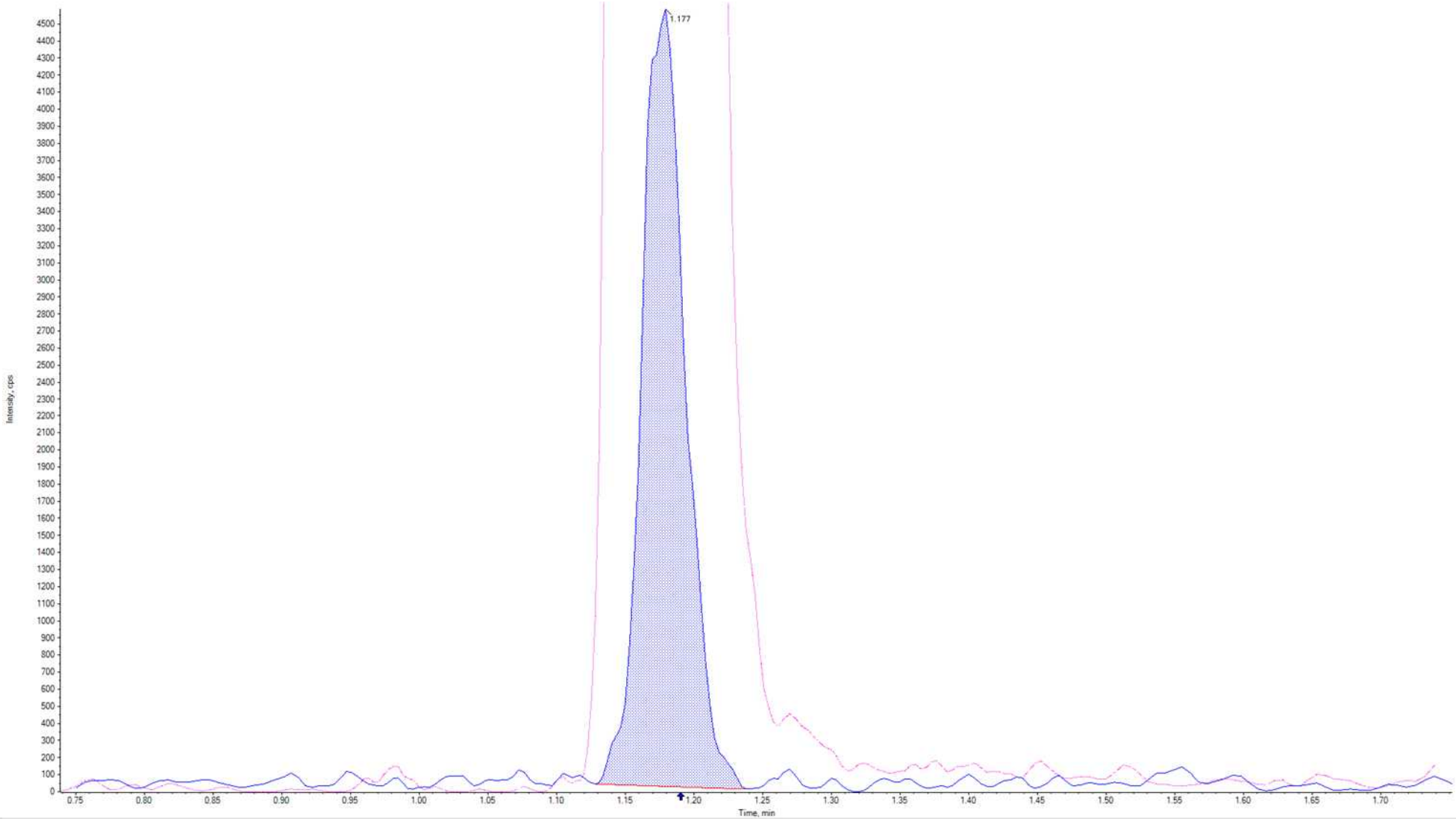
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFPeA
Sample: CA1633STD-10 S/N:6348.4 Points Across peak:58



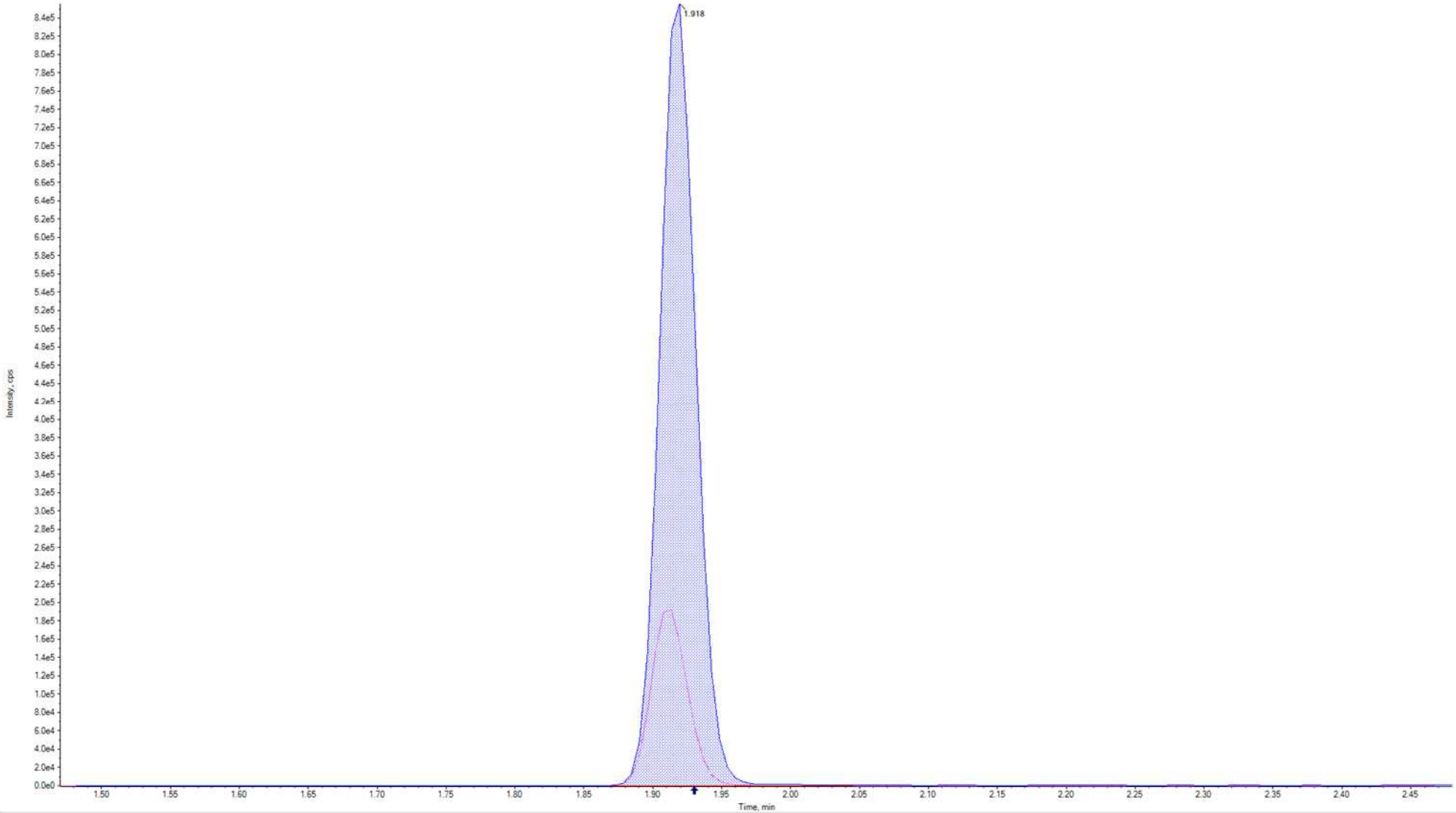
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFPeA_2
Sample: CA1633STD-10 S/N:274.0 Points Across peak:35



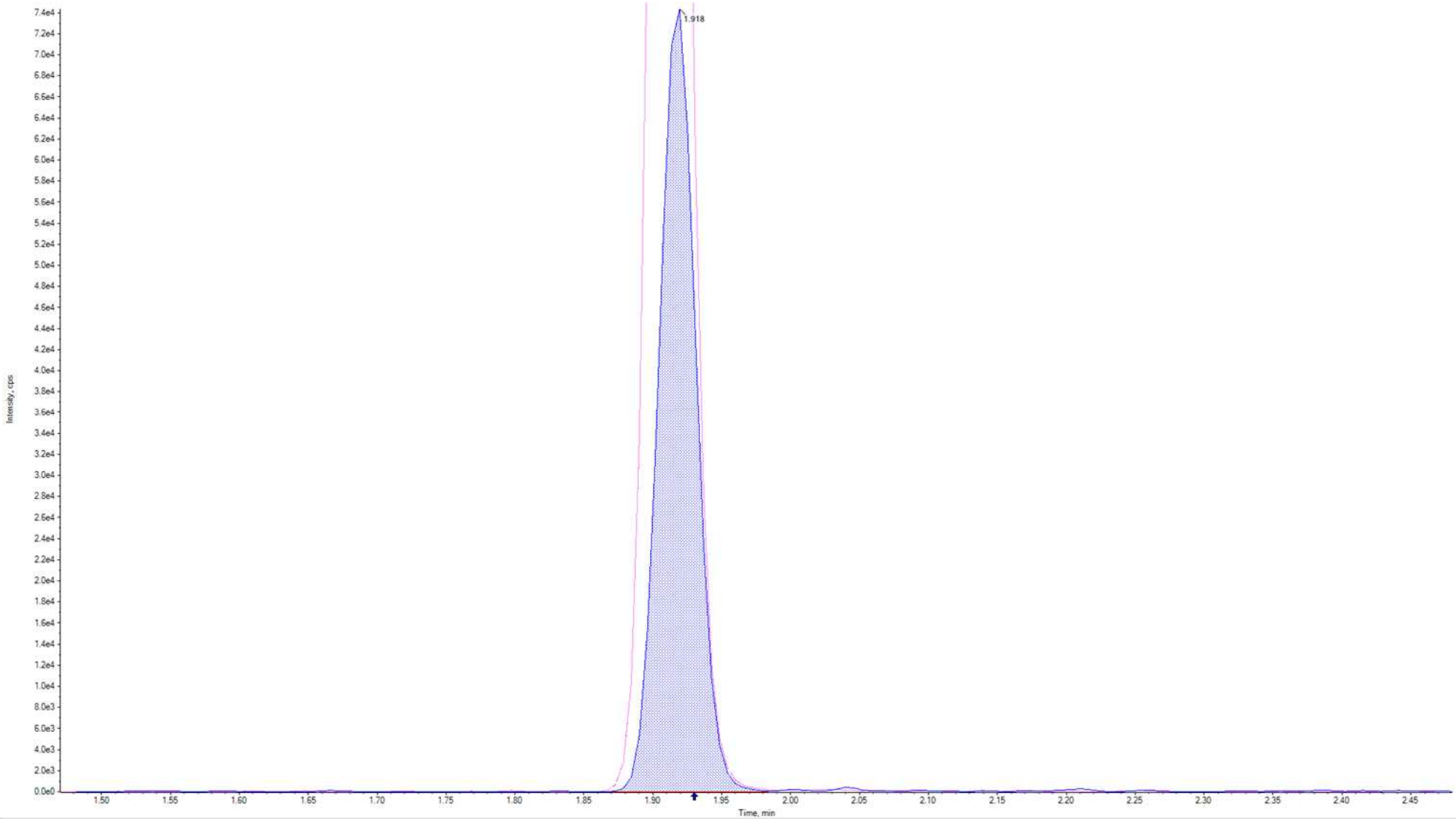
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

PFHxA
Sample: CA1633STD-10 S/N:7563.8 Points Across peak:37



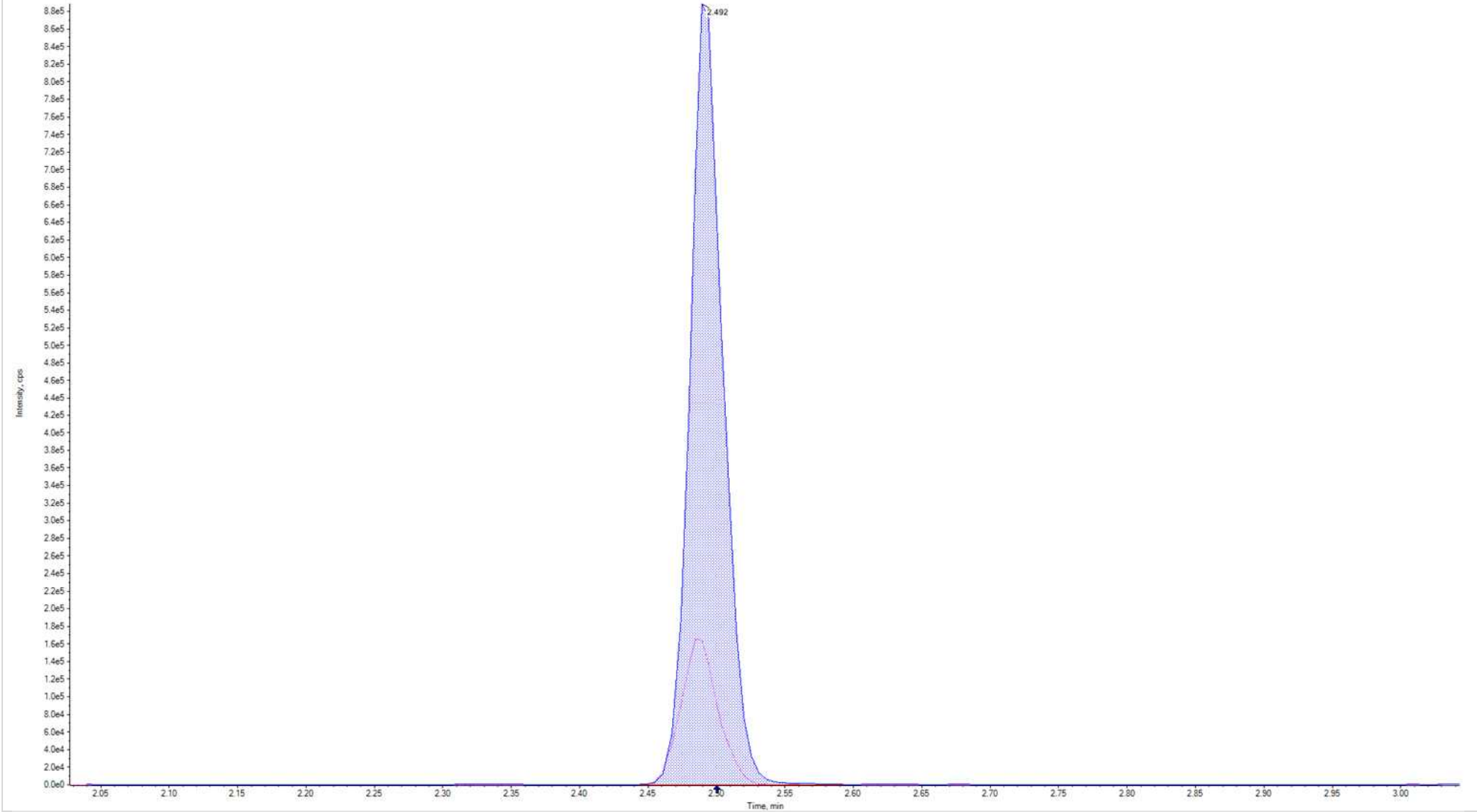
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFHxA_2
Sample: CA1633STD-10 S/N:1862.8 Points Across peak:22



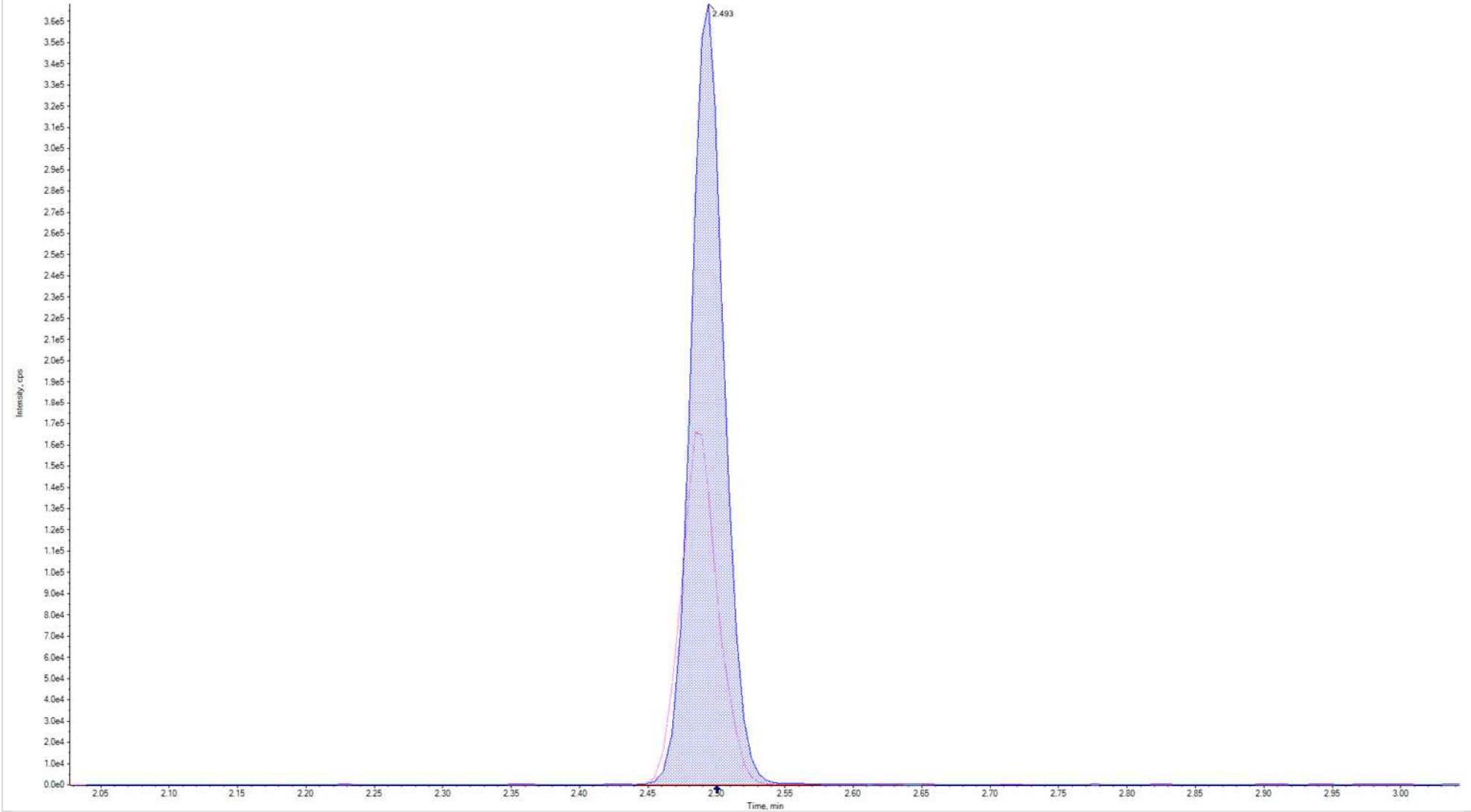
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

PFHpA
Sample: CA1633STD-10 S/N:6330.3 Points Across peak:31



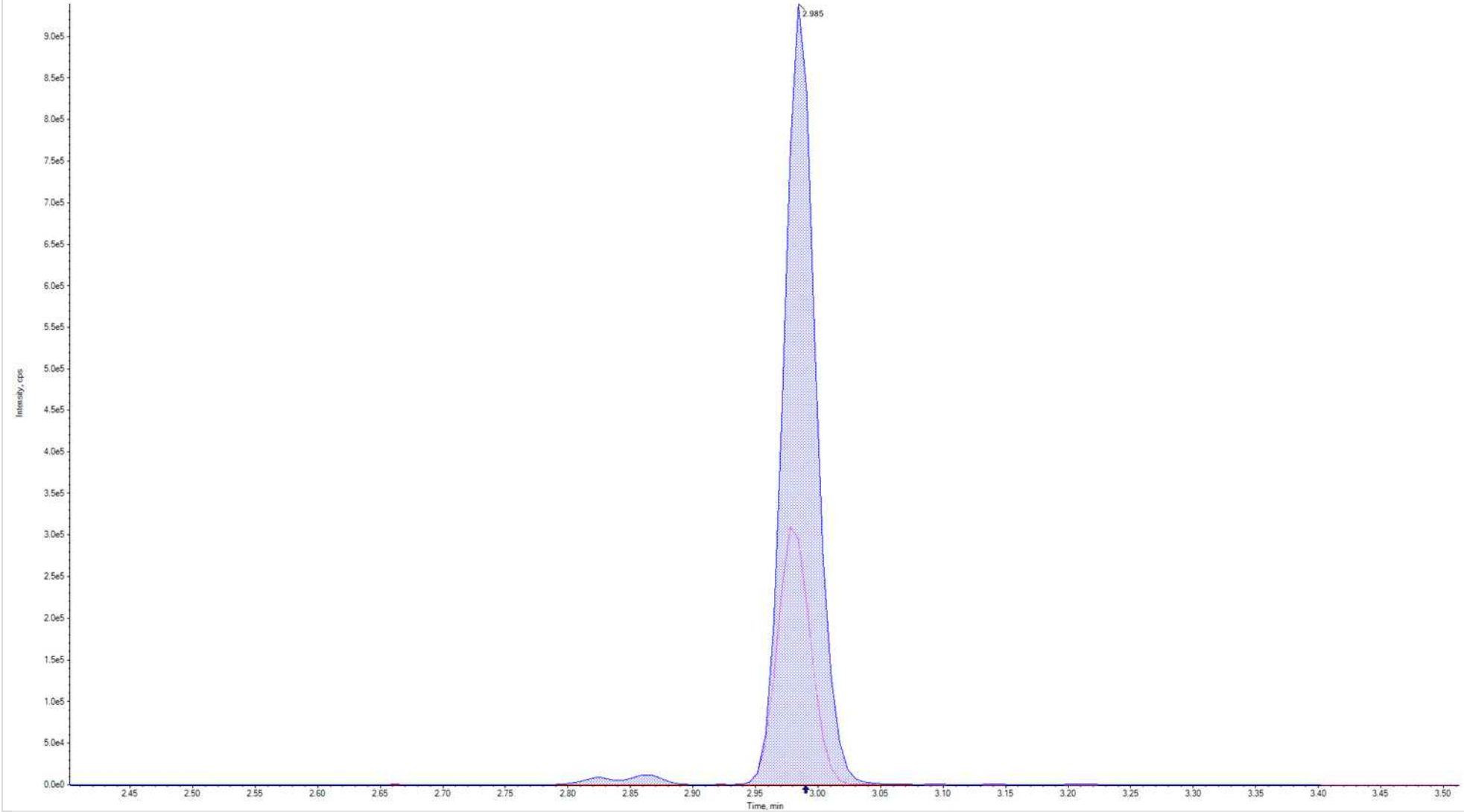
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFHpA_2
Sample: CA1633STD-10 S/N:7383.6 Points Across peak:25



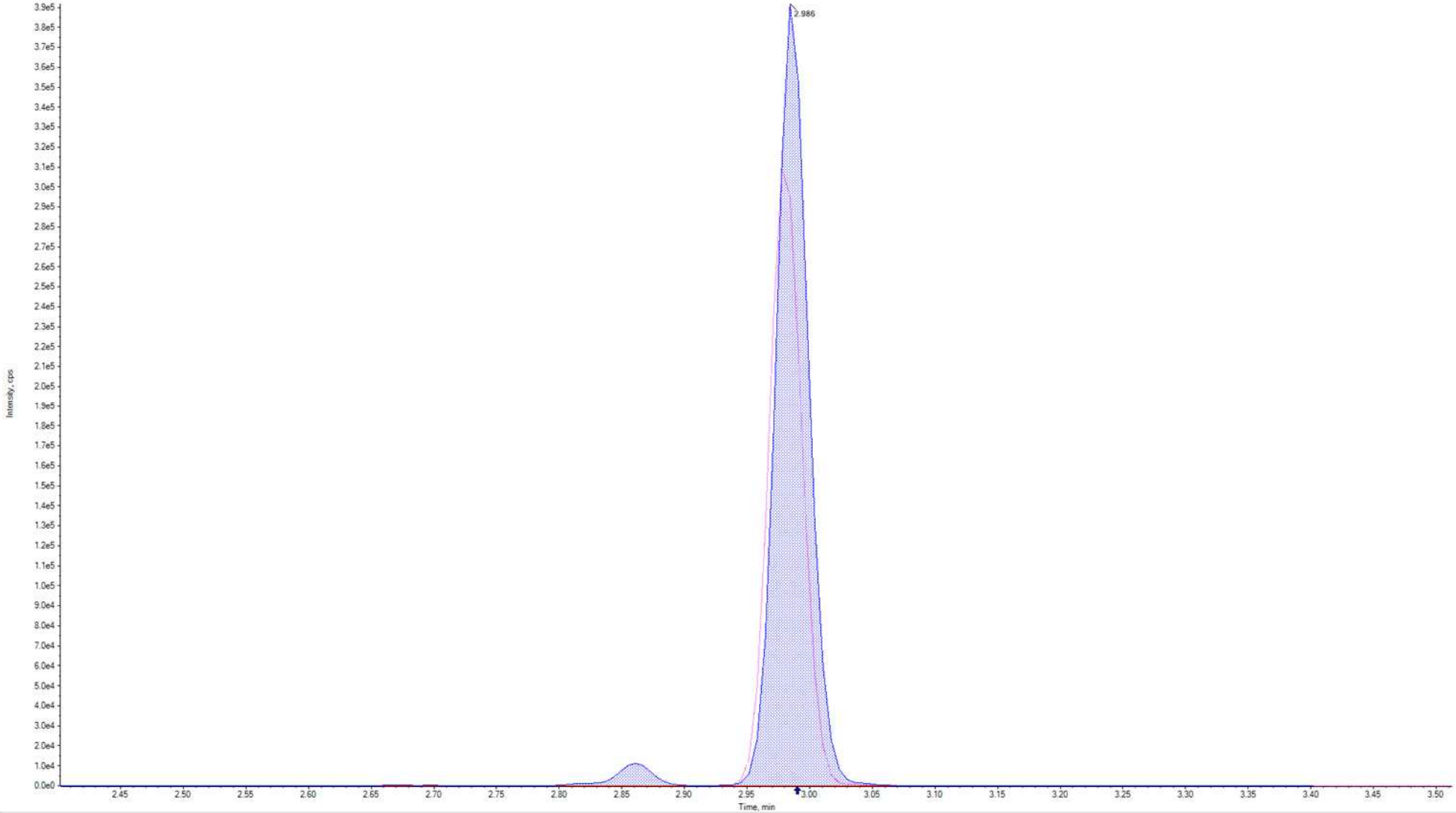
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFOA
Sample: CA1633STD-10 S/N:2485.7 Points Across peak:75



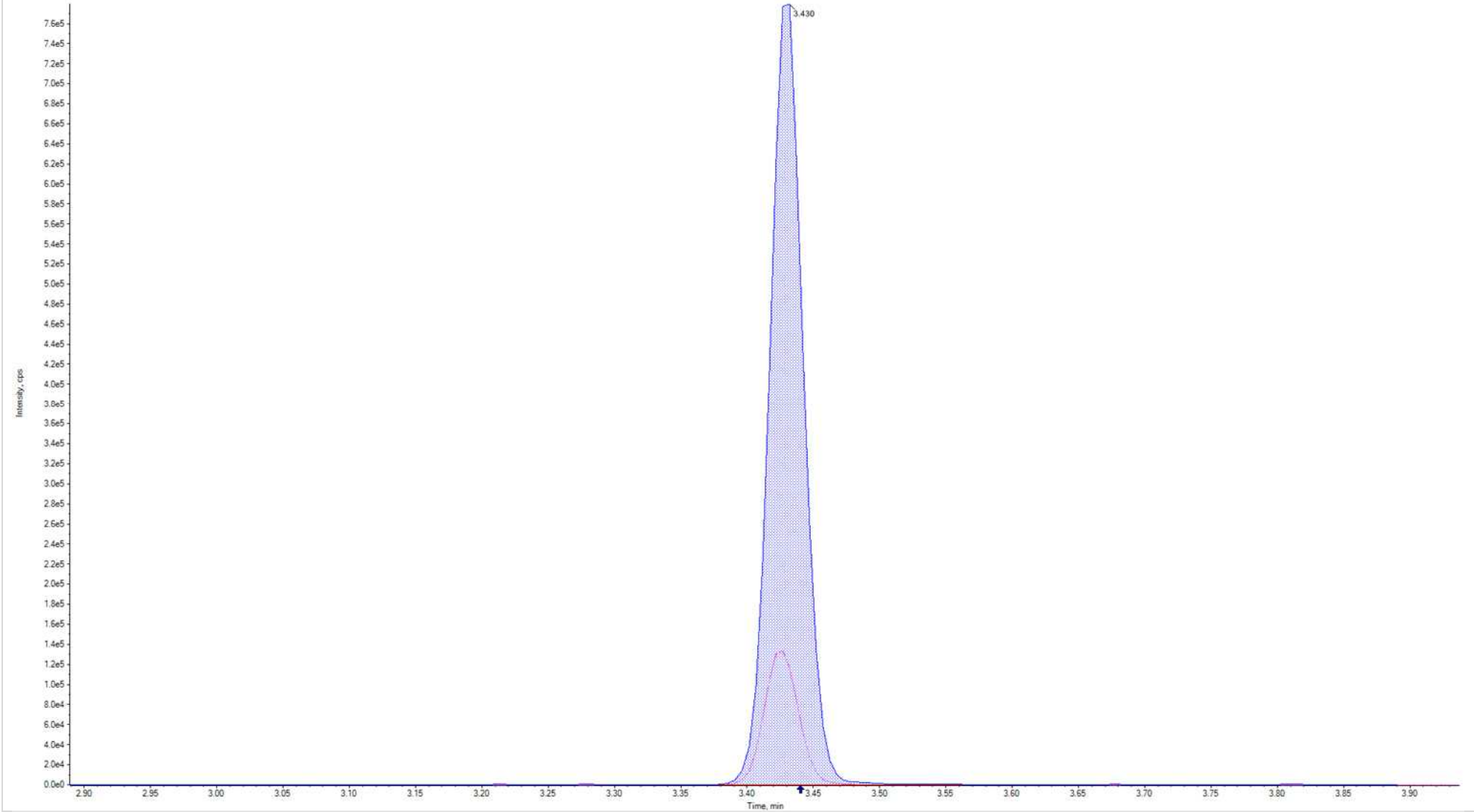
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFOA_2
Sample: CA1633STD-10 S/N:2243.3 Points Across peak:77



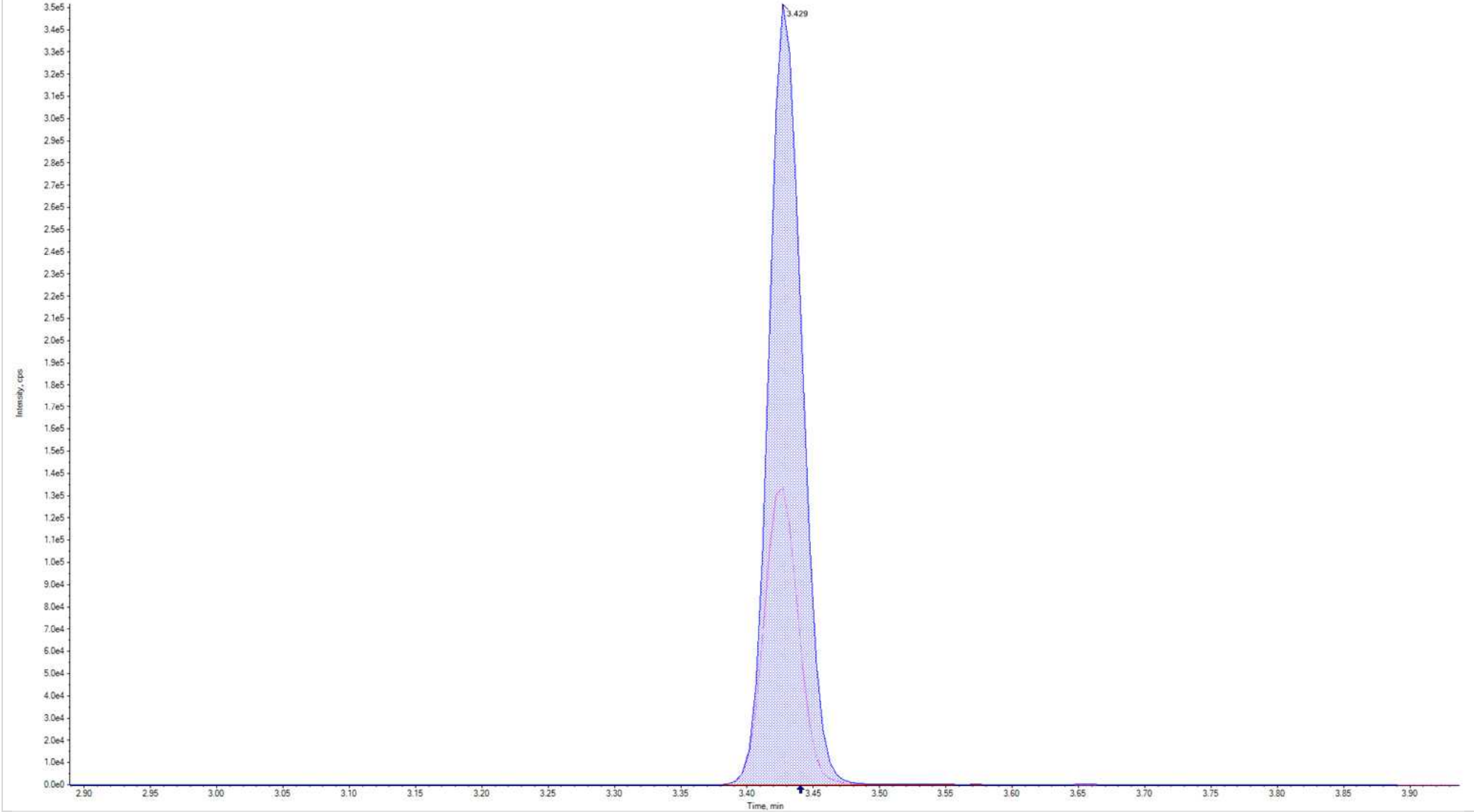
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFNA
Sample: CA1633STD-10 S/N:2770.3 Points Across peak:38



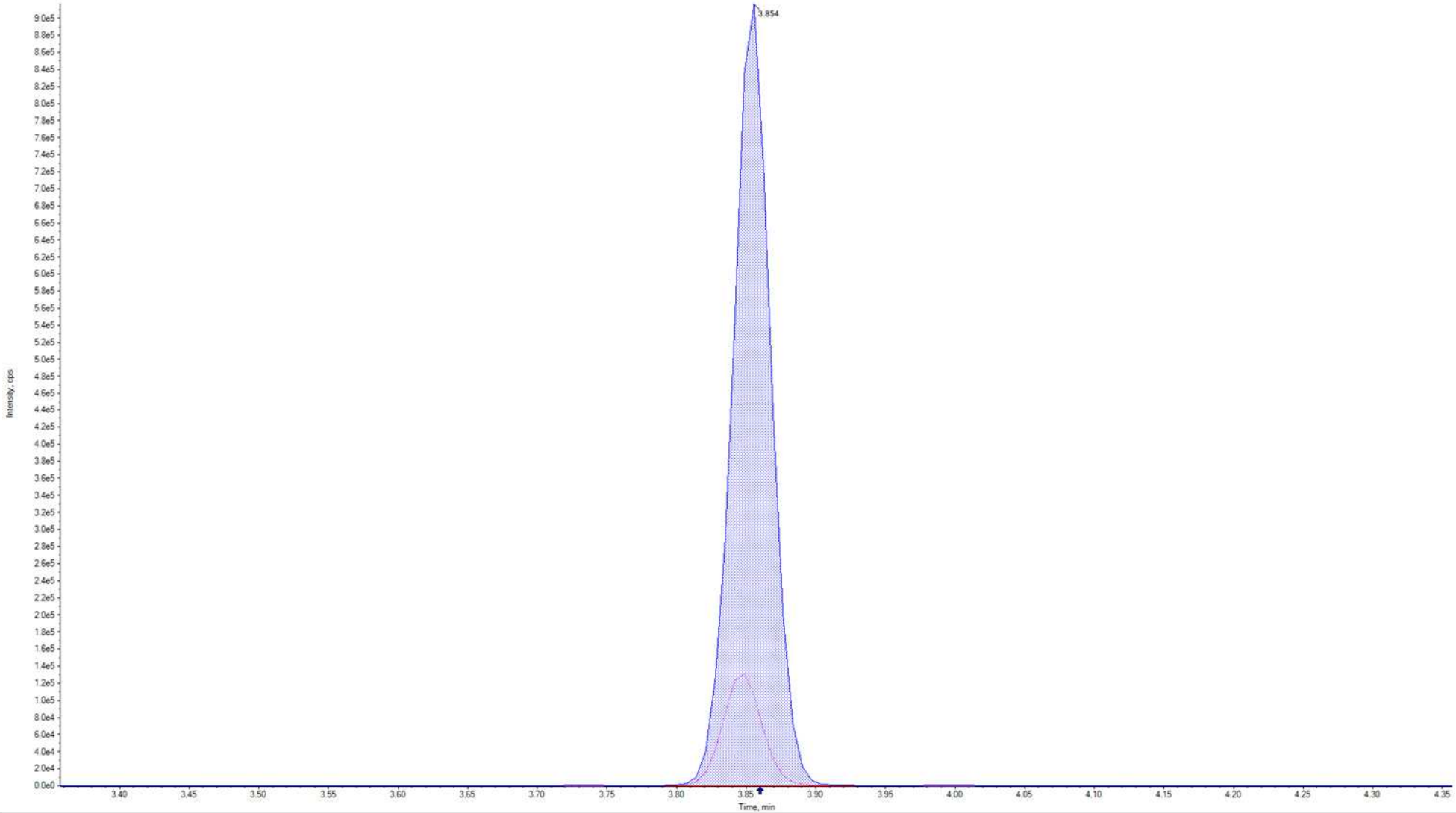
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFNA_2
Sample: CA1633STD-10 S/N:3415.4 Points Across peak:42



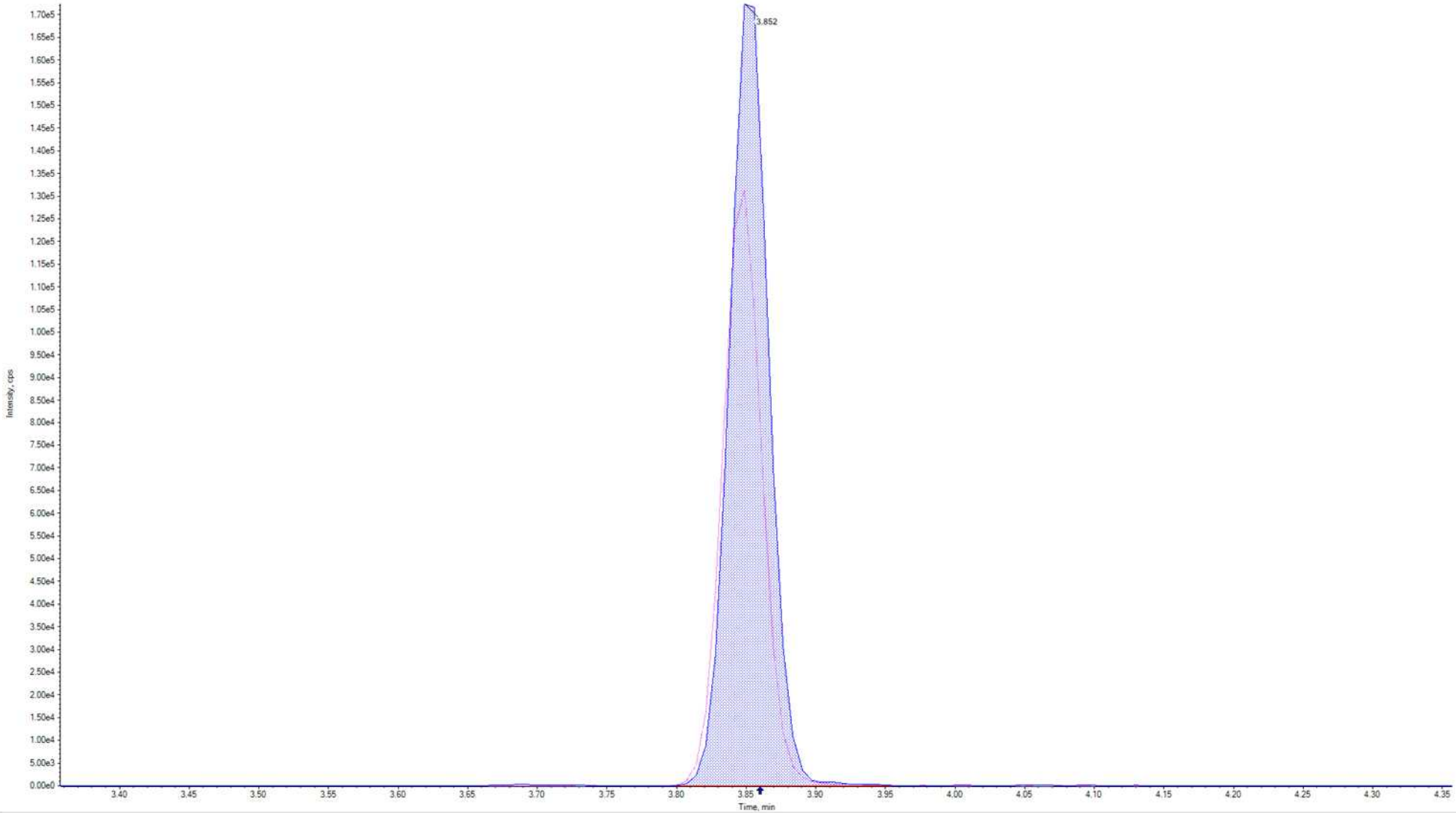
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Generated: 3/4/2025 5:58:35 AM

PFDA
Sample: CA1633STD-10 S/N:18382.7 Points Across peak:29



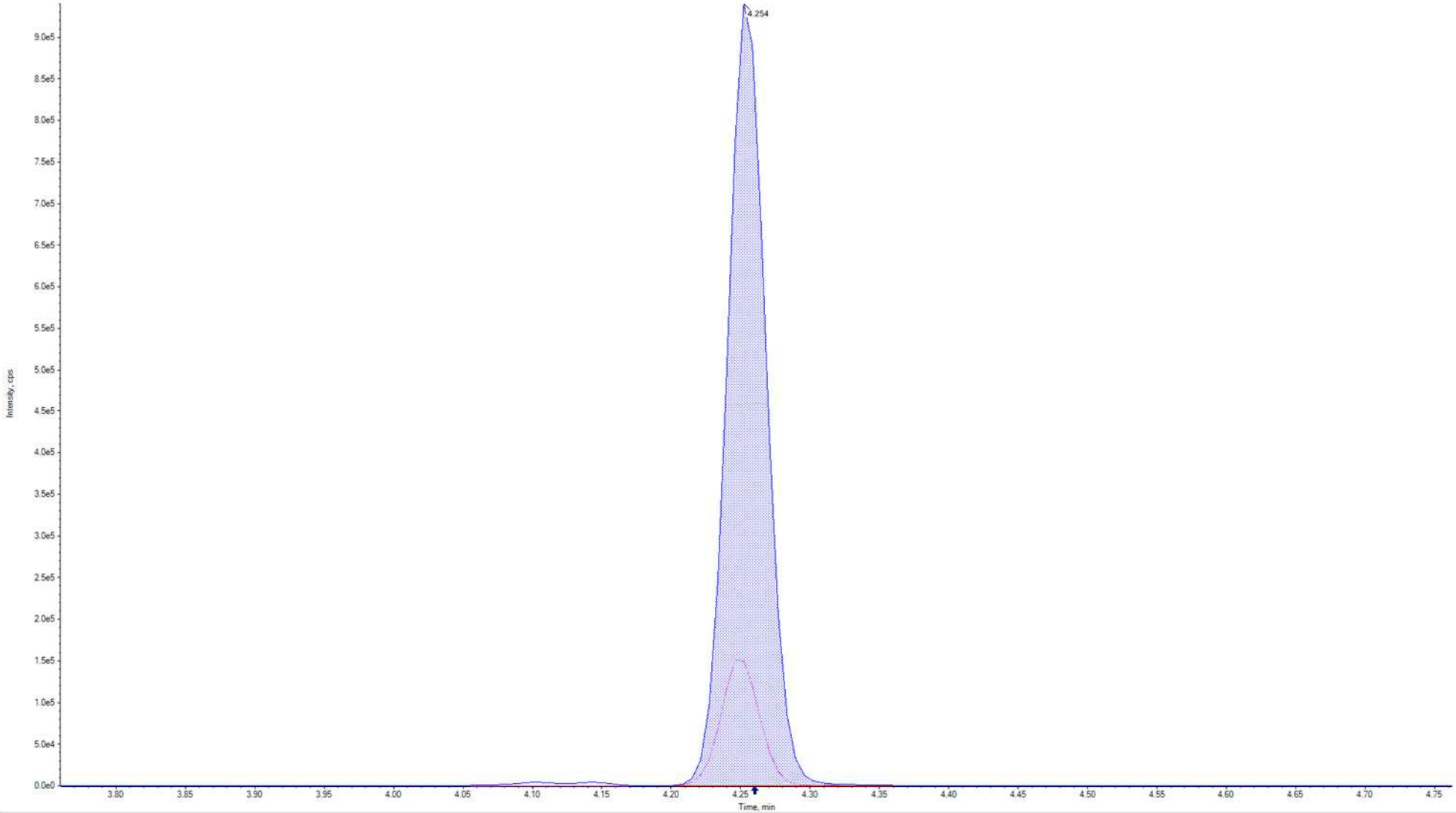
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFDA_2
Sample: CA1633STD-10 S/N:3456.6 Points Across peak:33



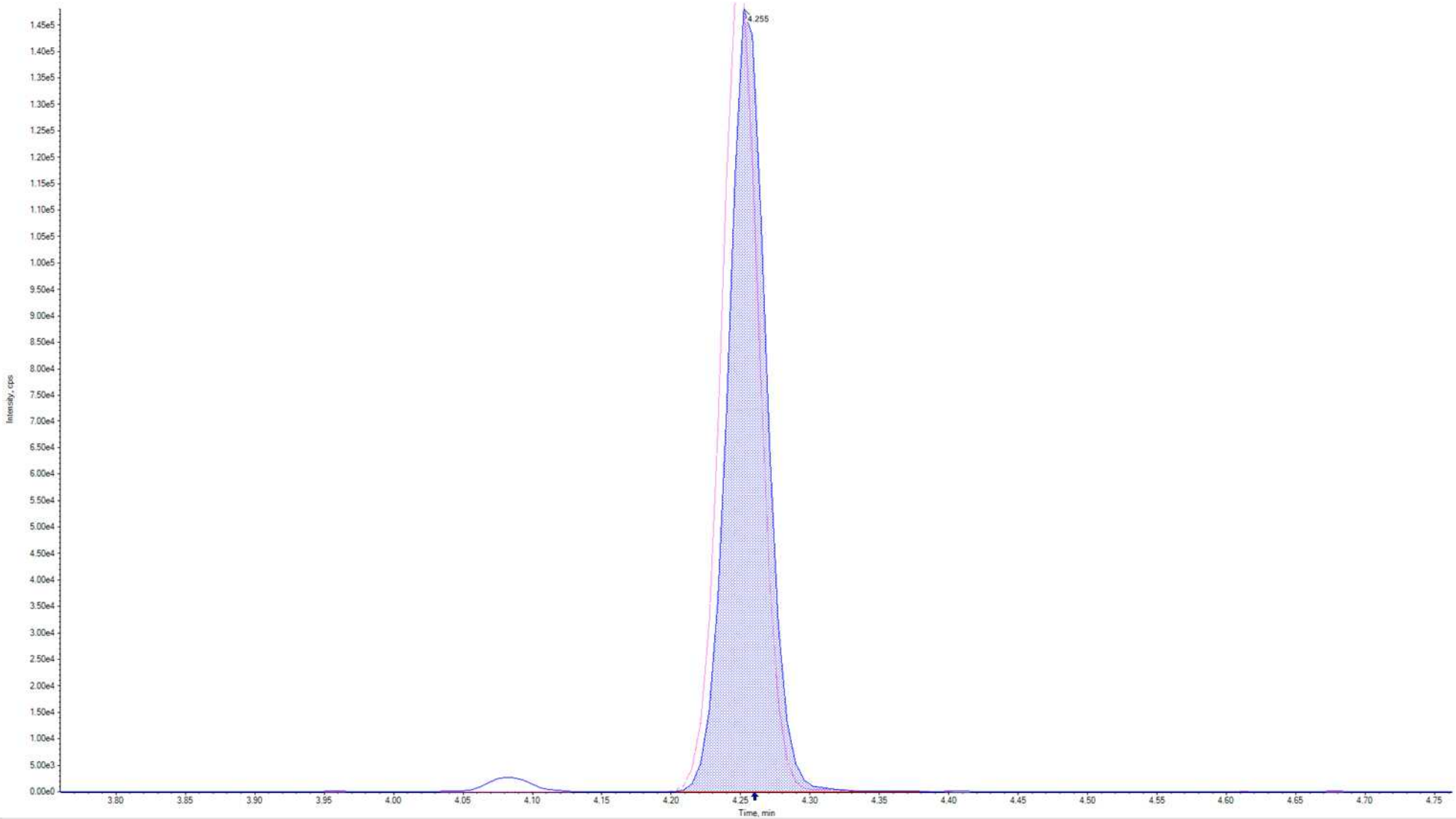
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFUnA
Sample: CA1633STD-10 S/N:21207.7 Points Across peak:30



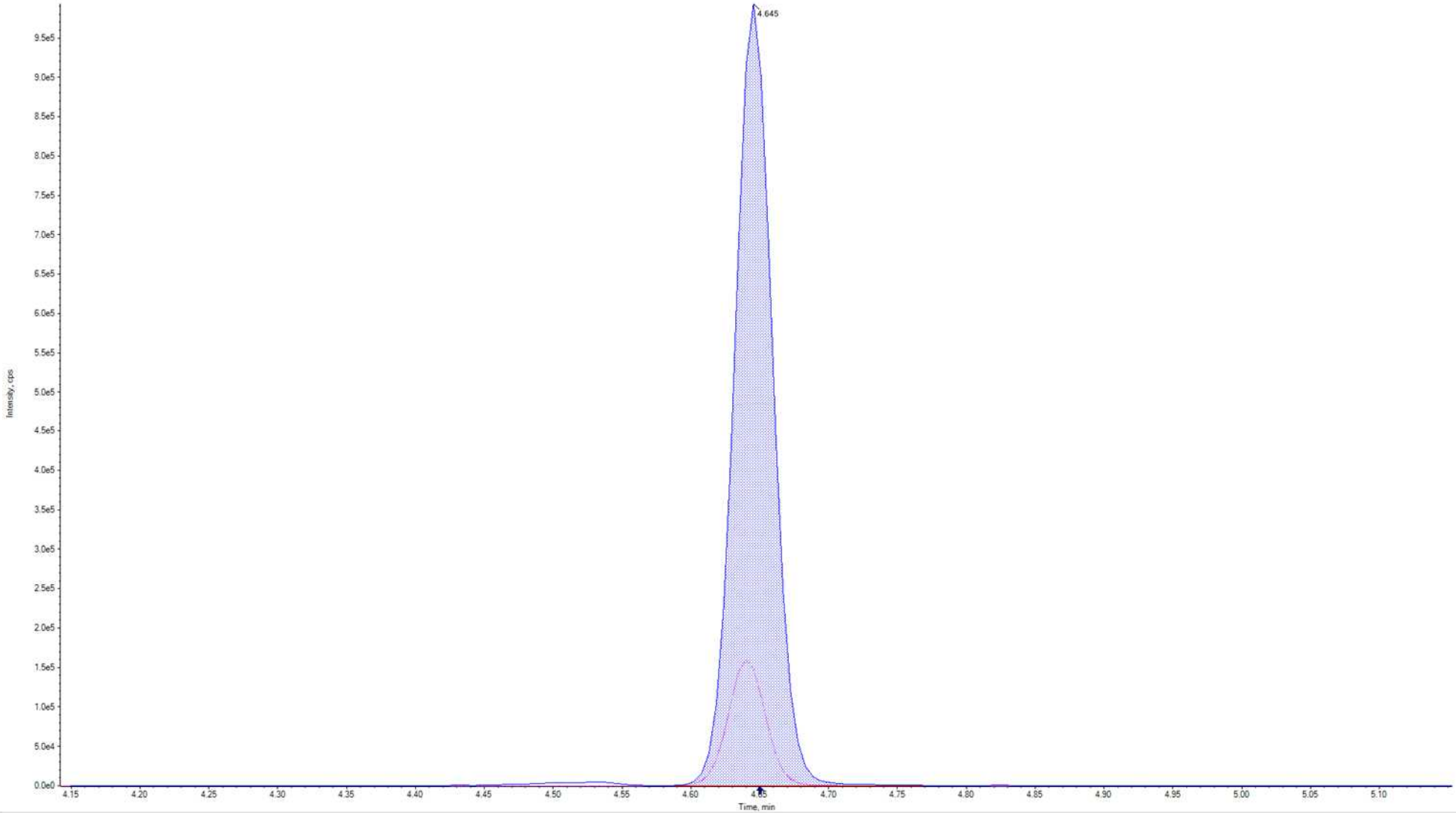
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFUnA_2
Sample: CA1633STD-10 S/N:3338.9 Points Across peak:37



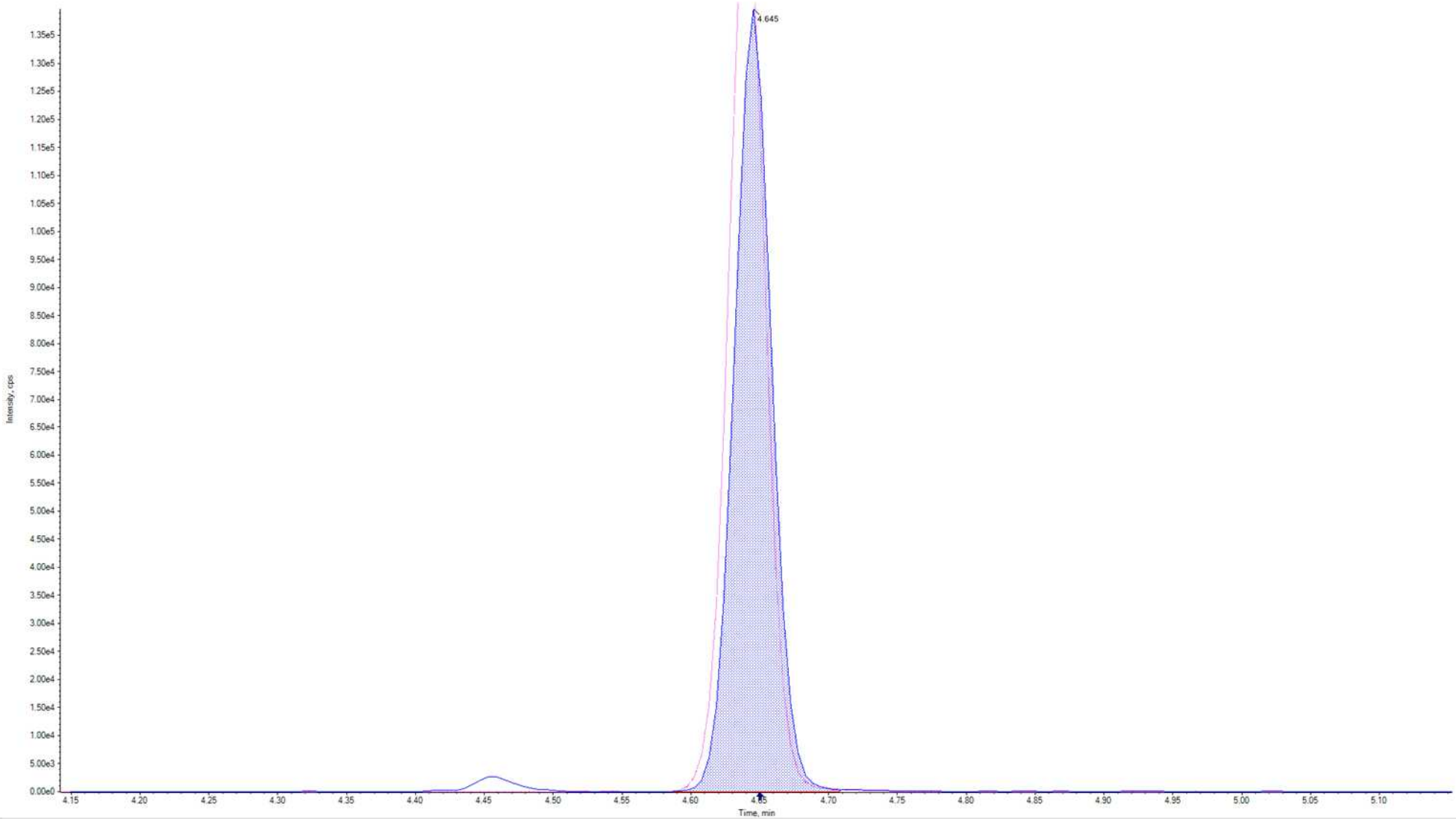
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

PFDoA
Sample: CA1633STD-10 S/N:10483.5 Points Across peak:43



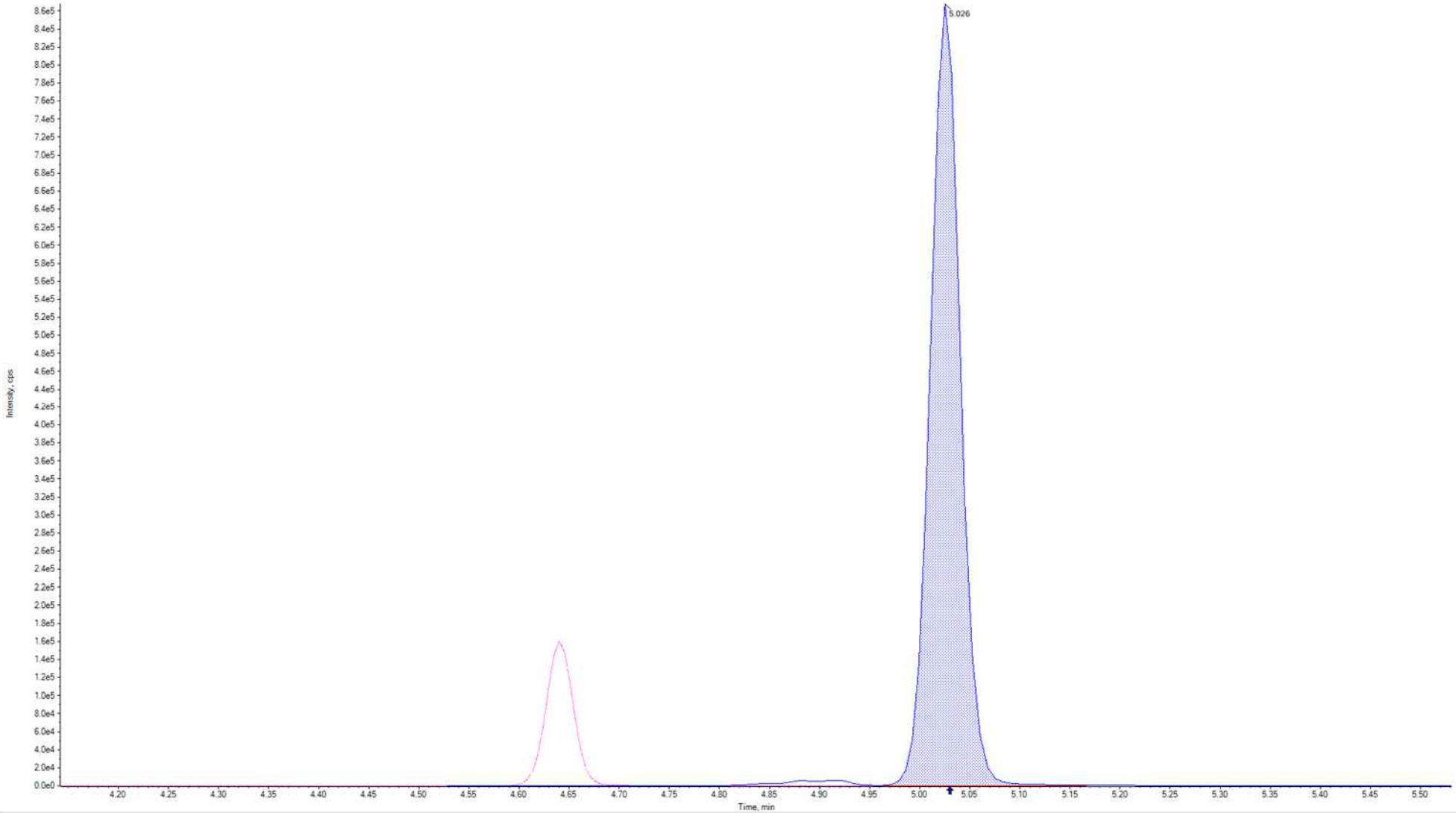
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFDoA_2
Sample: CA1633STD-10 S/N:2272.4 Points Across peak:25



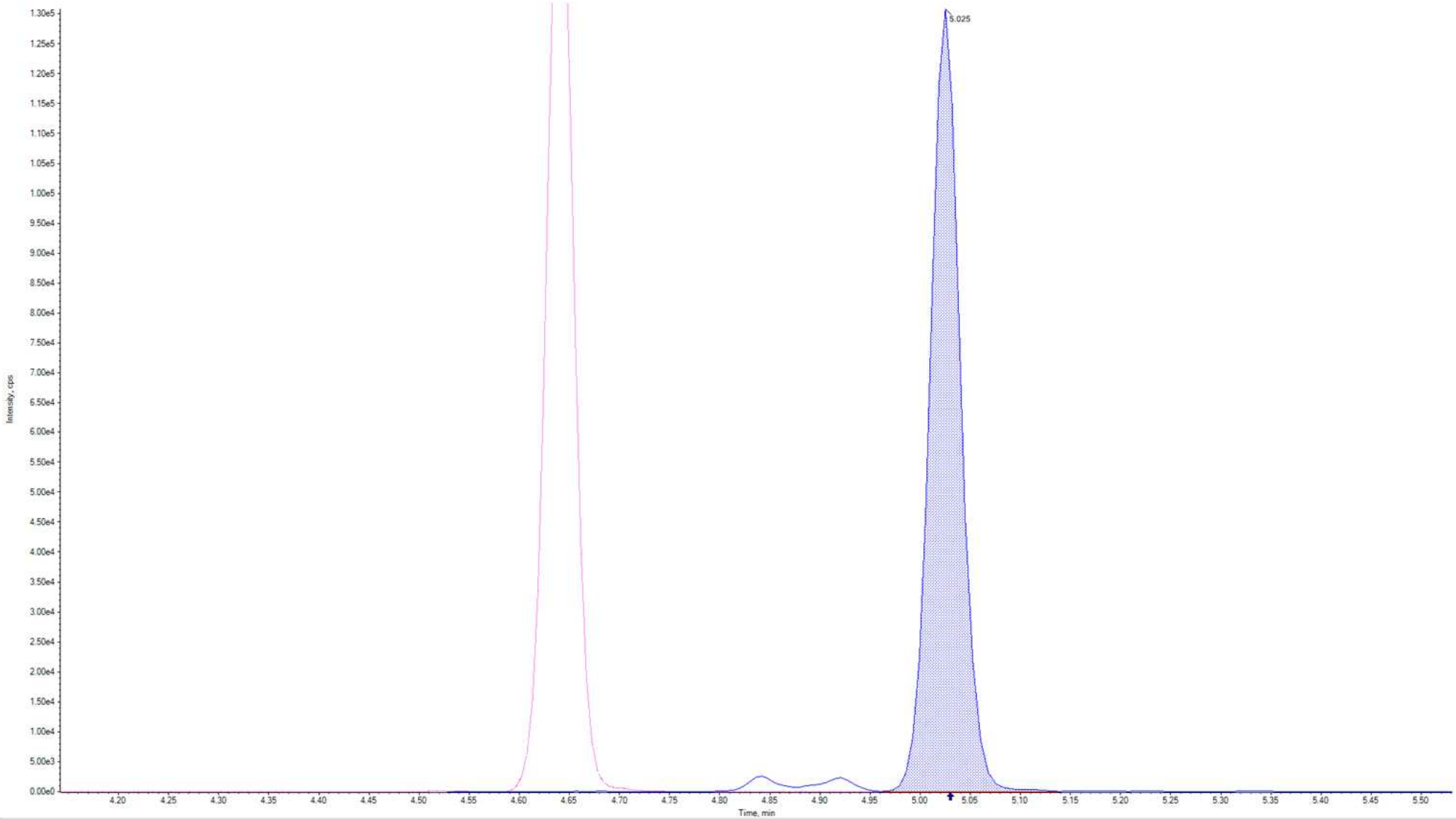
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFTrDA
Sample: CA1633STD-10 S/N:9308.8 Points Across peak:30



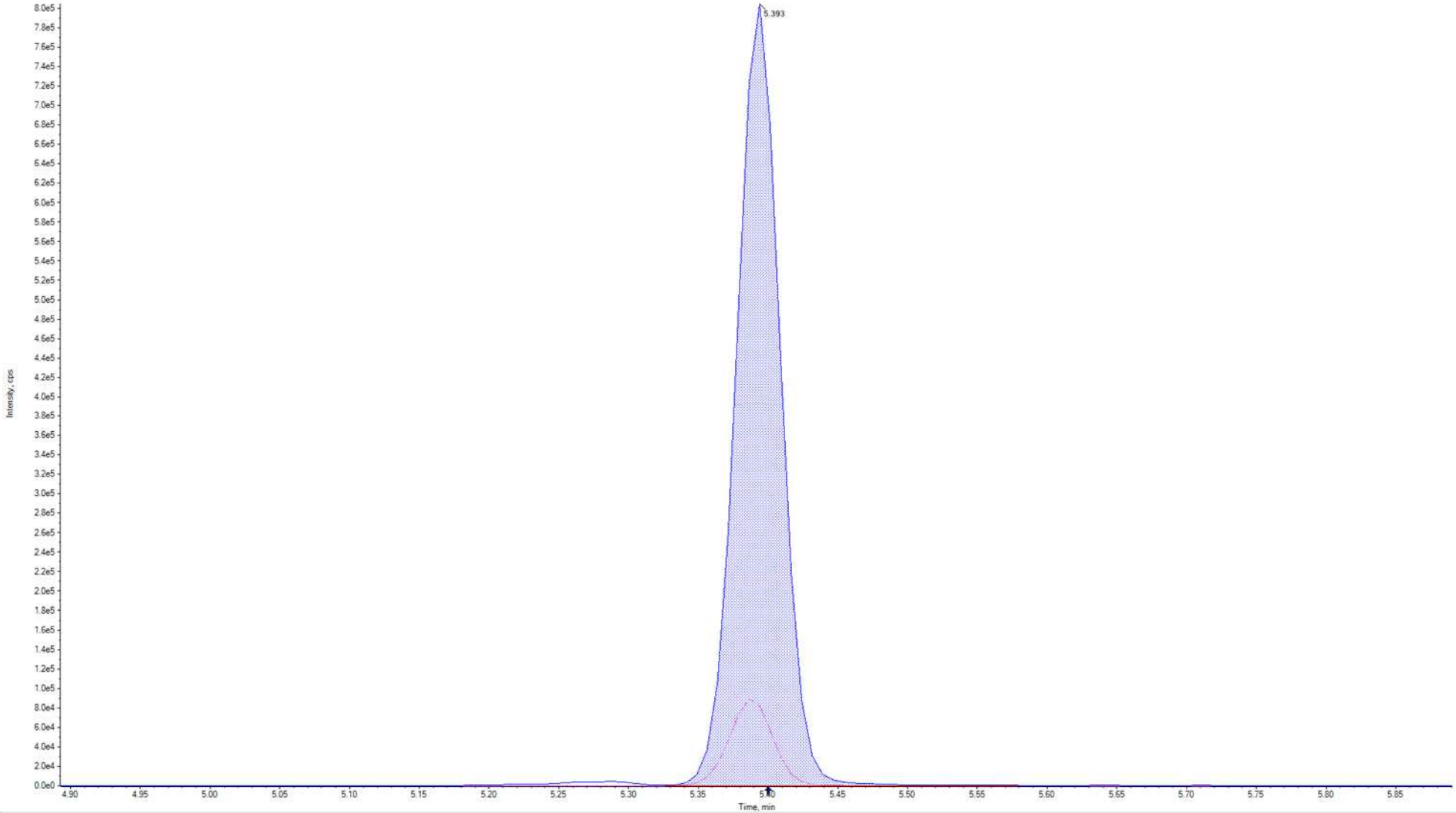
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFTrDA_2
Sample: CA1633STD-10 S/N:1786.1 Points Across peak:26



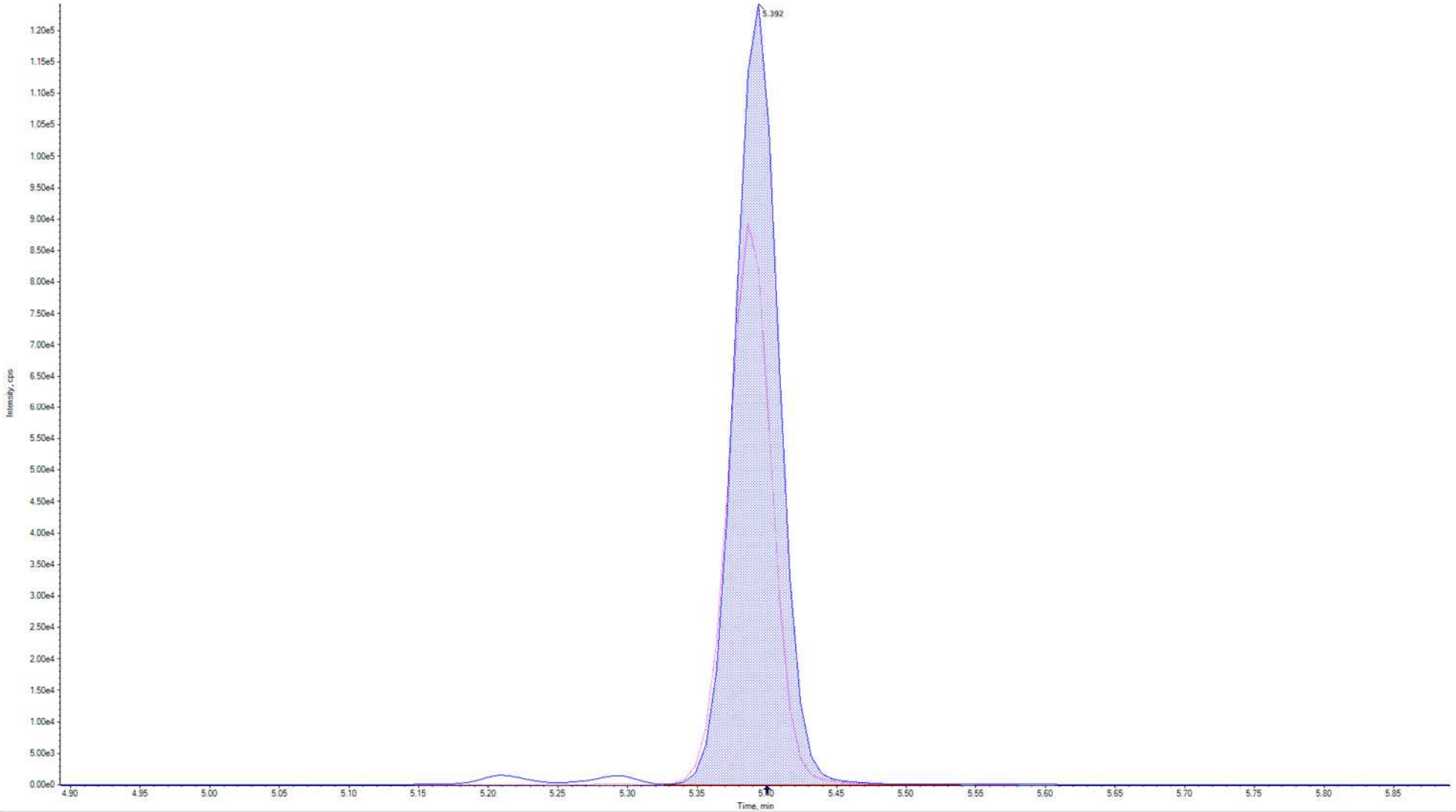
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Generated: 3/4/2025 5:58:35 AM

PFTeDA
Sample: CA1633STD-10 S/N:4705.8 Points Across peak:36



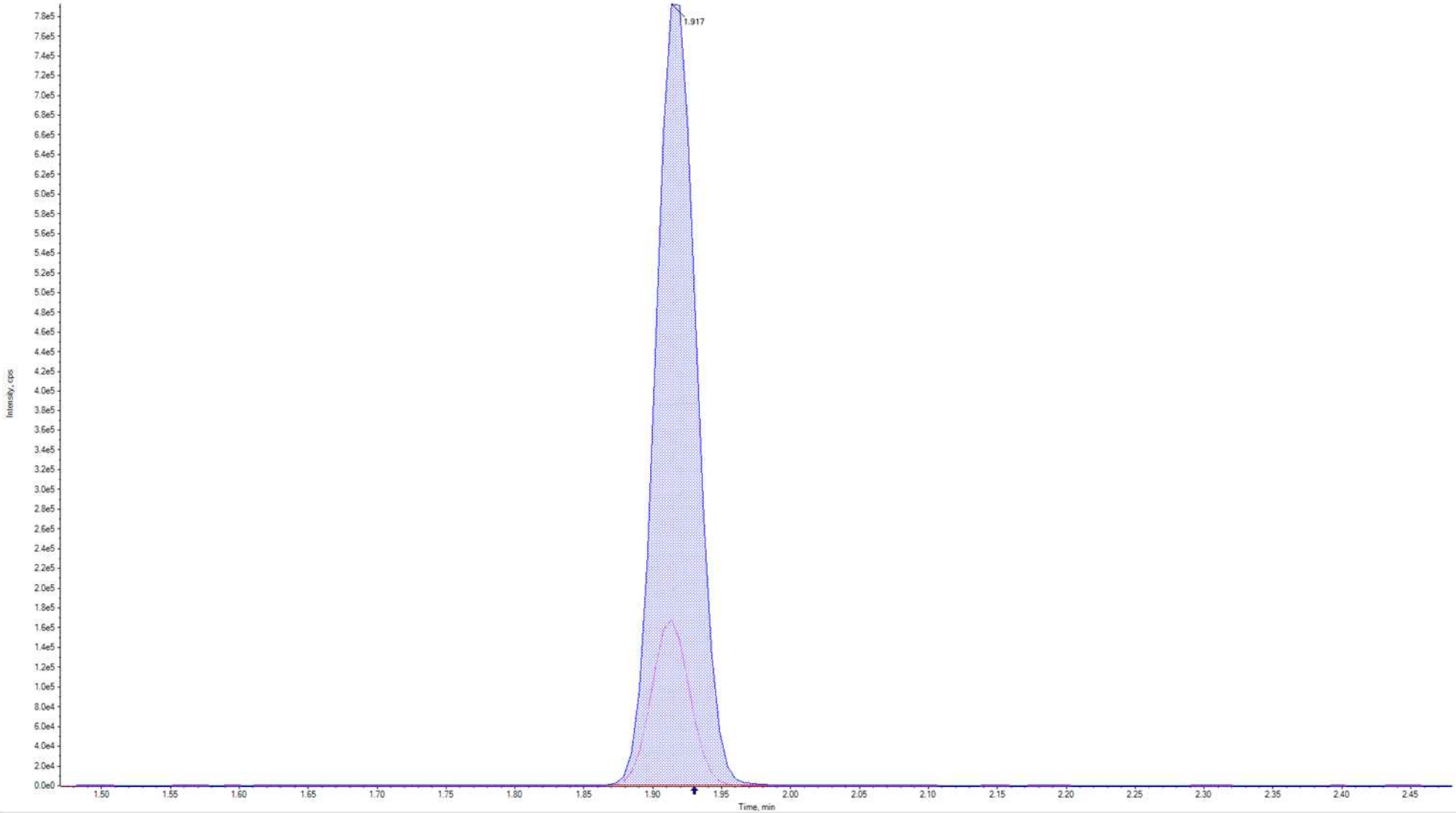
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Alpha Analytical LLC
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PFTeDA_2
Sample: CA1633STD-10 S/N:1790.2 Points Across peak:27



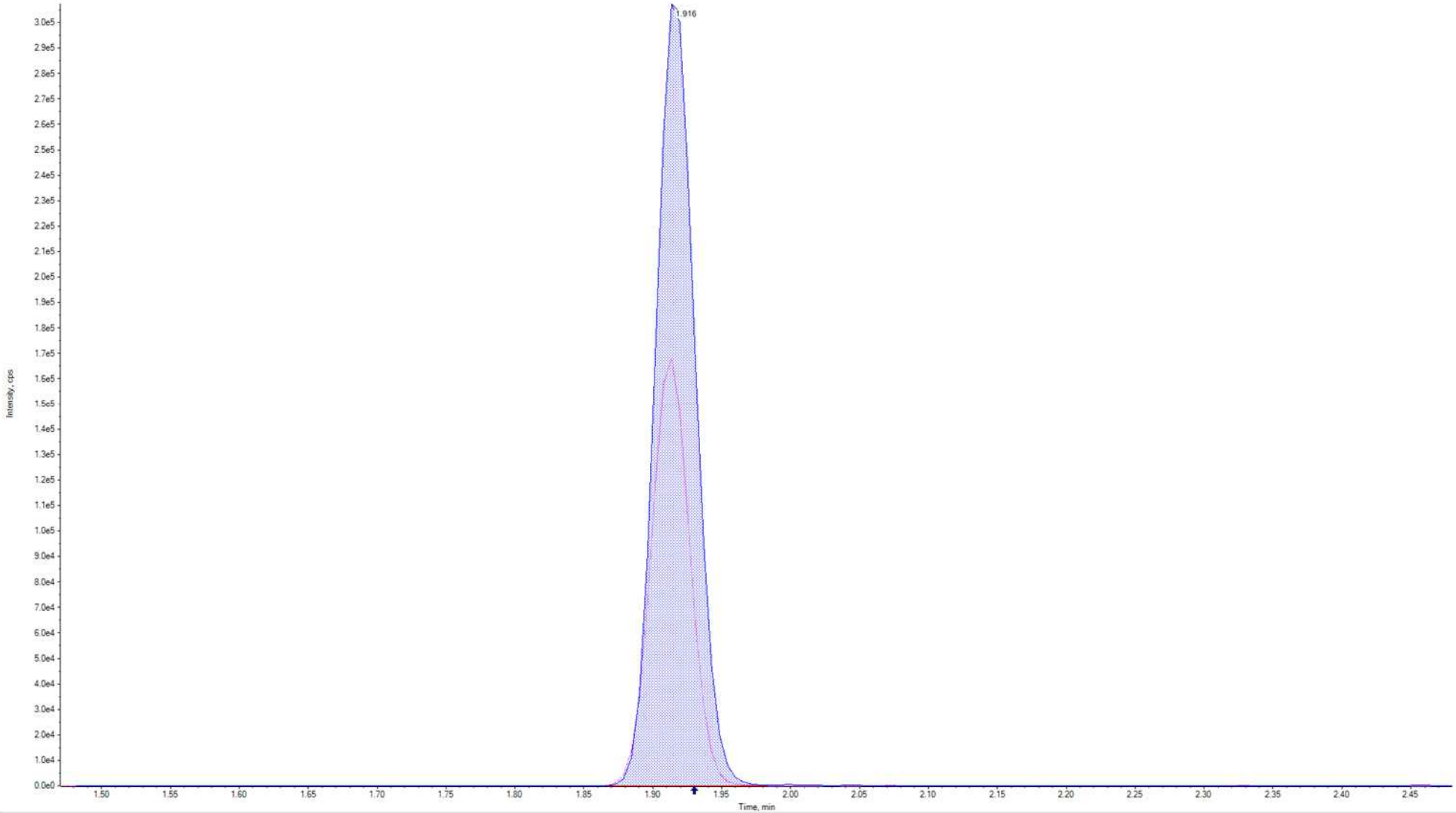
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

PFBS
Sample: CA1633STD-10 S/N:4100.7 Points Across peak:27



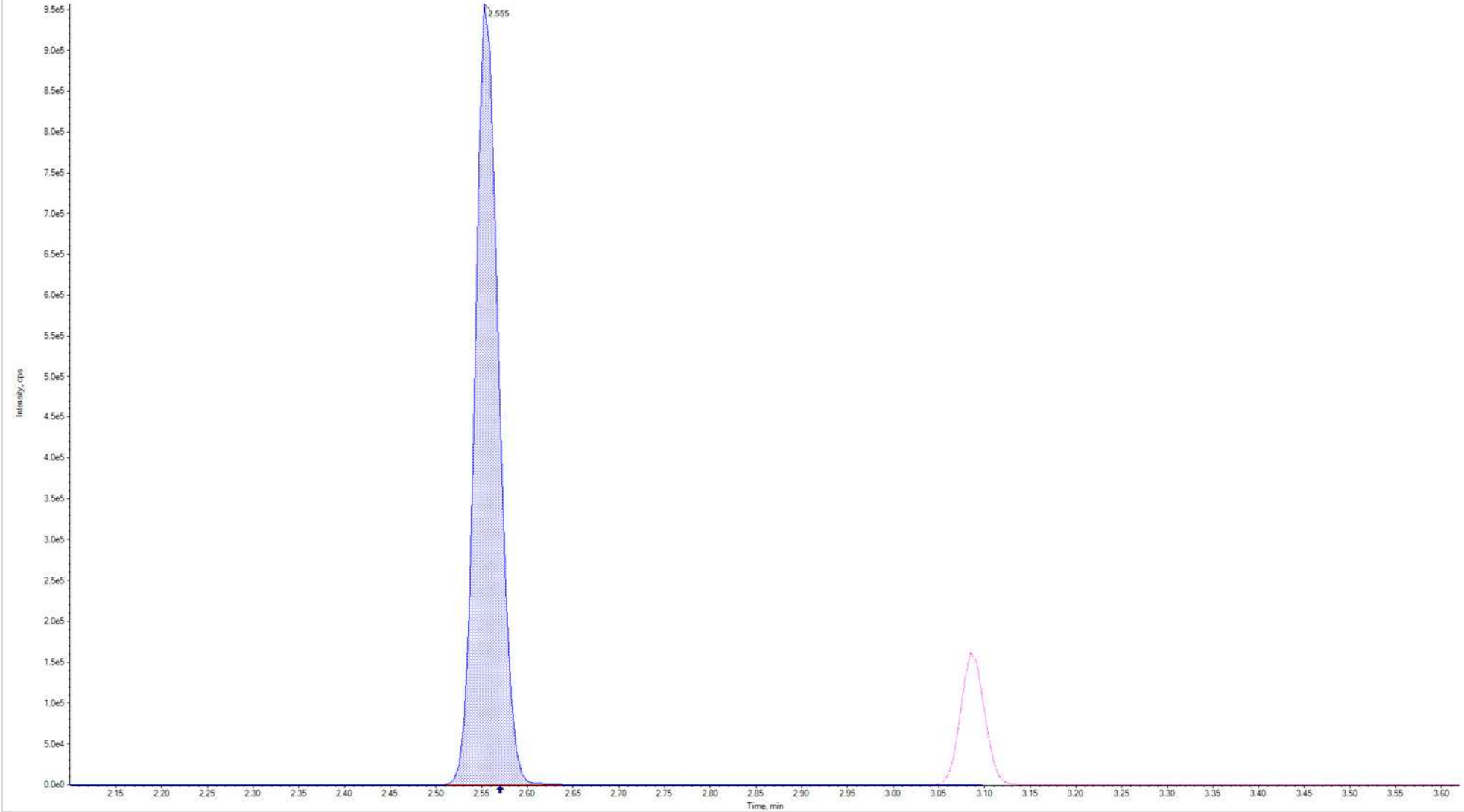
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

PFBS_2
Sample: CA1633STD-10 S/N:7703.7 Points Across peak:22



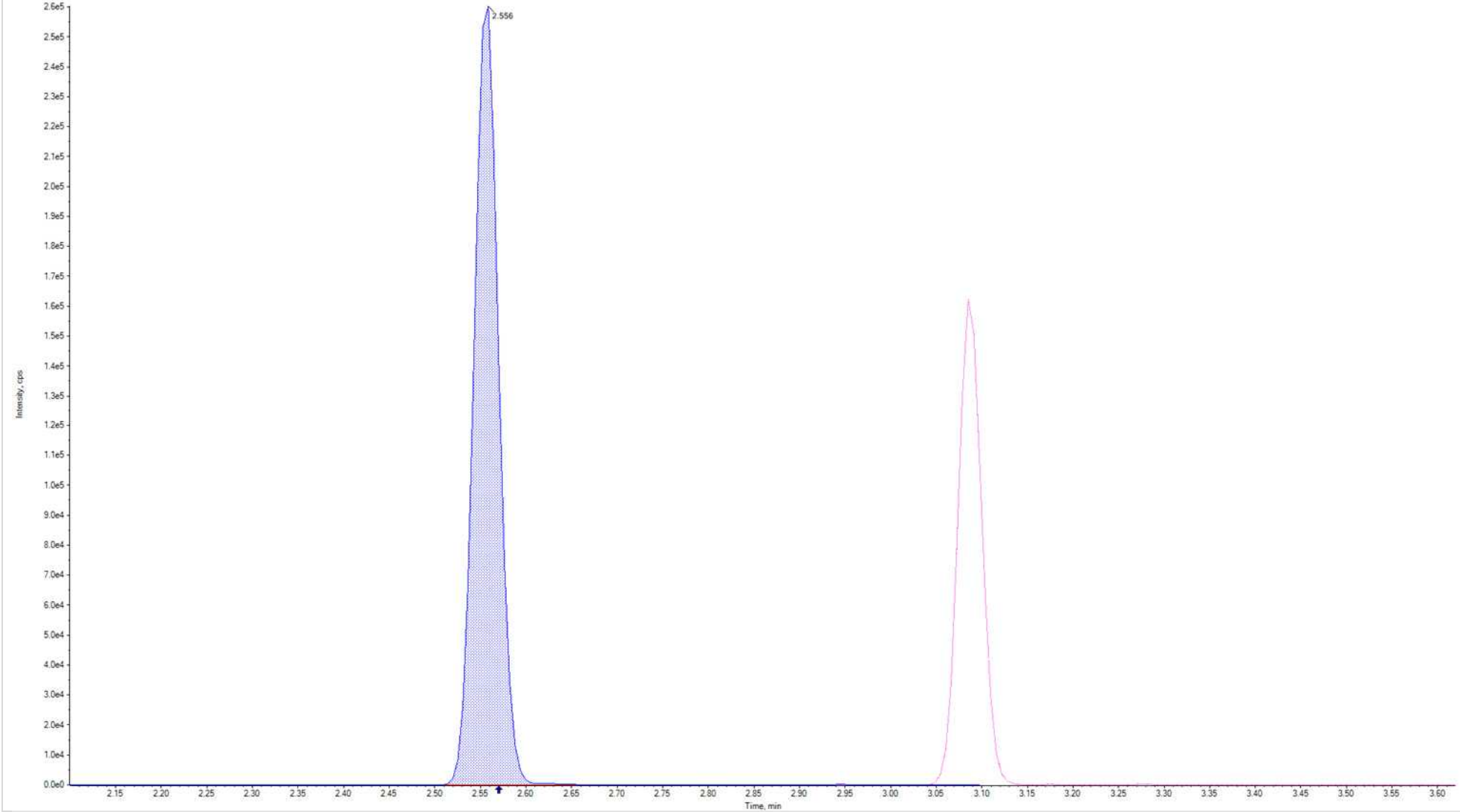
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFPeS
Sample: CA1633STD-10 S/N:7569.5 Points Across peak:37



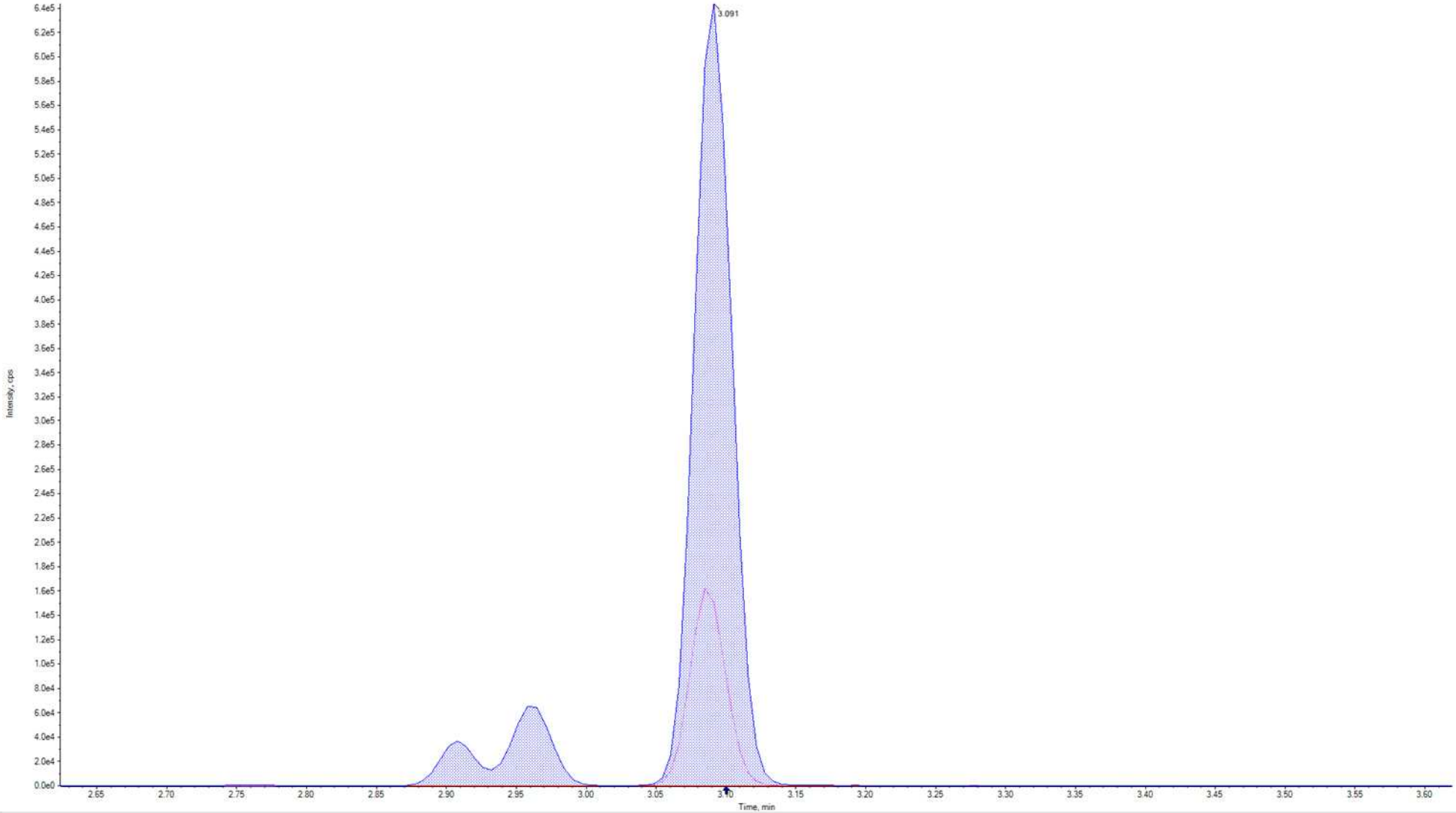
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

PFPeS_2
Sample: CA1633STD-10 S/N:5218.9 Points Across peak:30



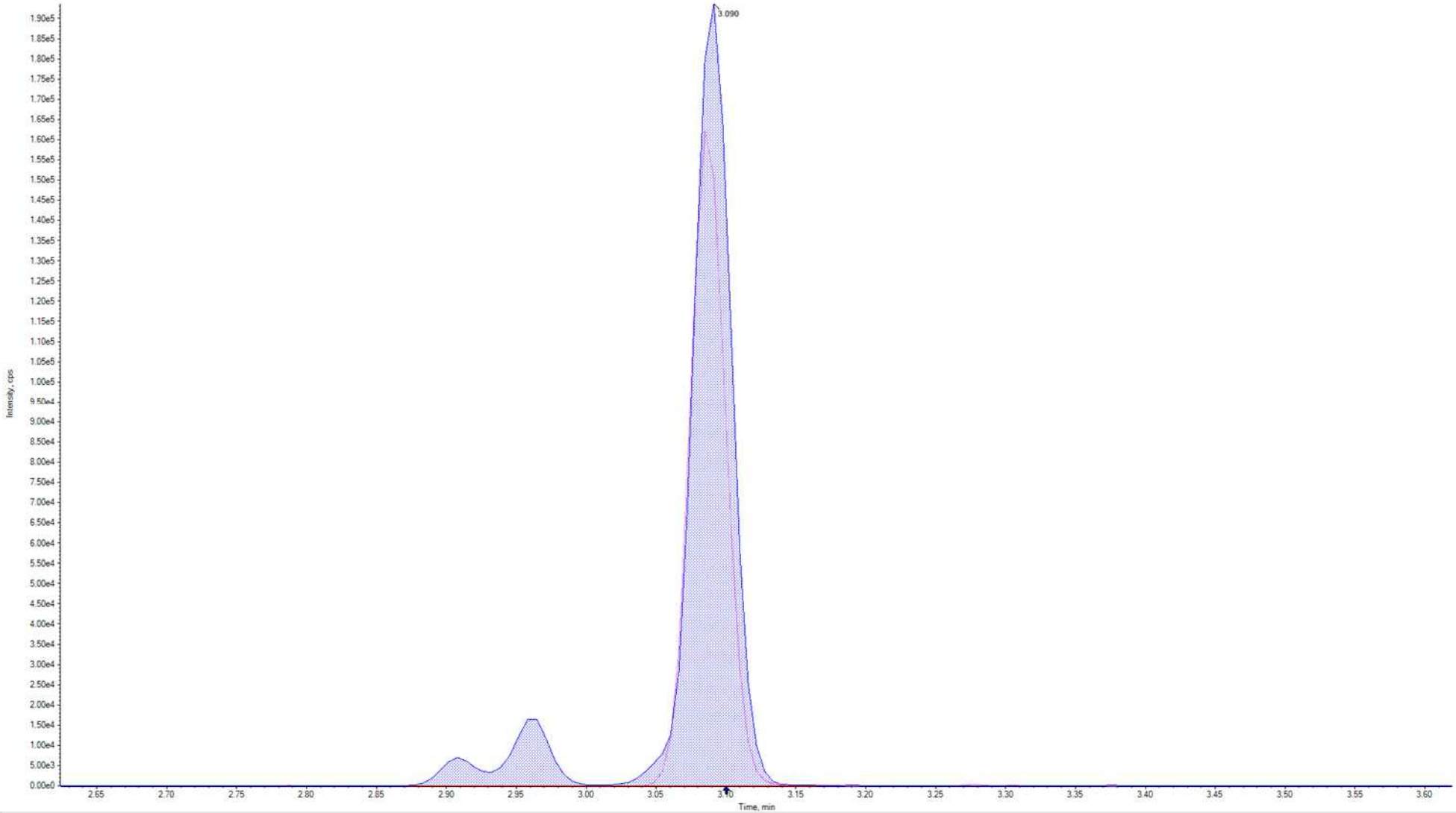
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFHxS
Sample: CA1633STD-10 S/N:1343.6 Points Across peak:59



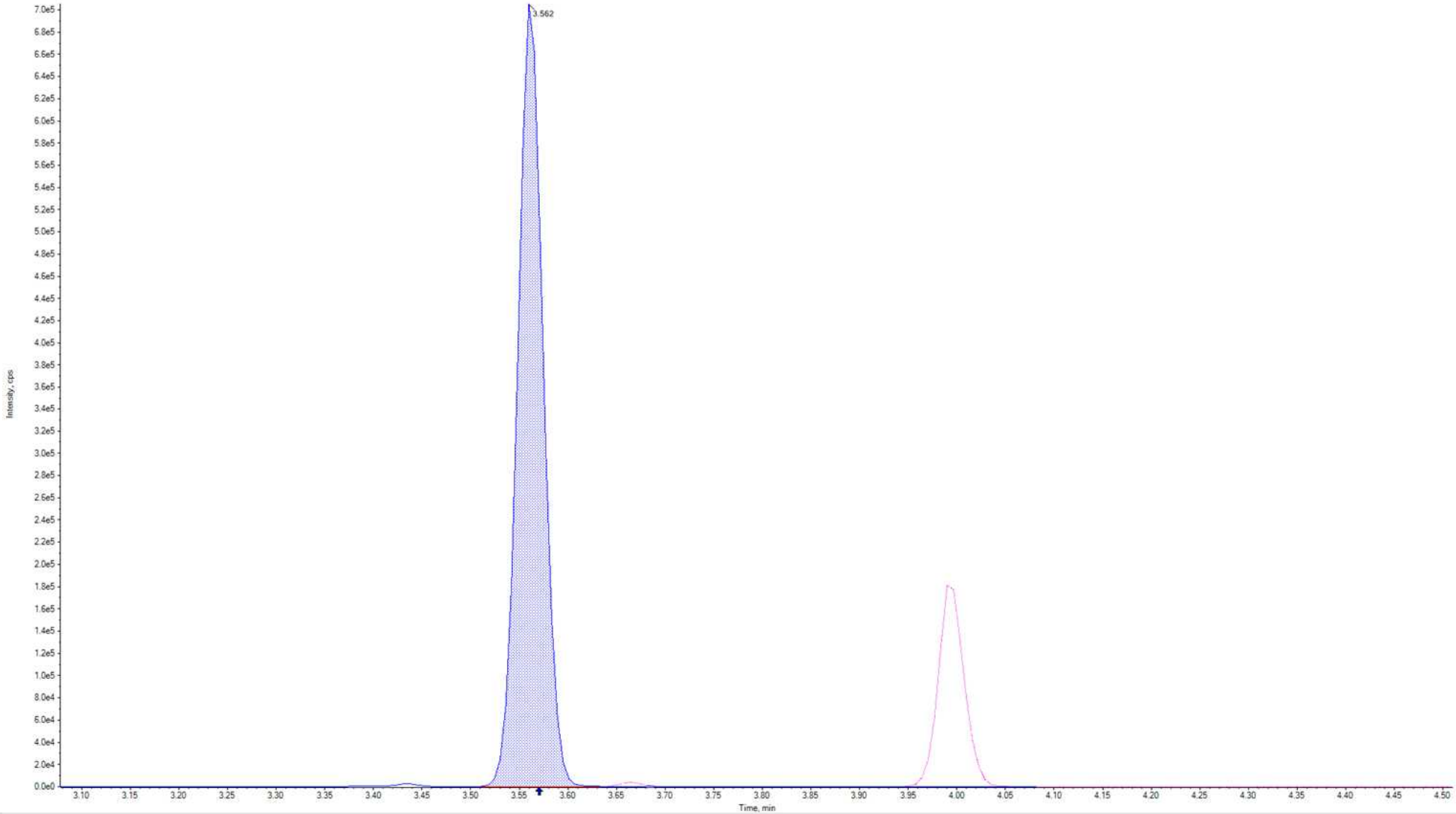
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFHxS_2
Sample: CA1633STD-10 S/N:1542.6 Points Across peak:52



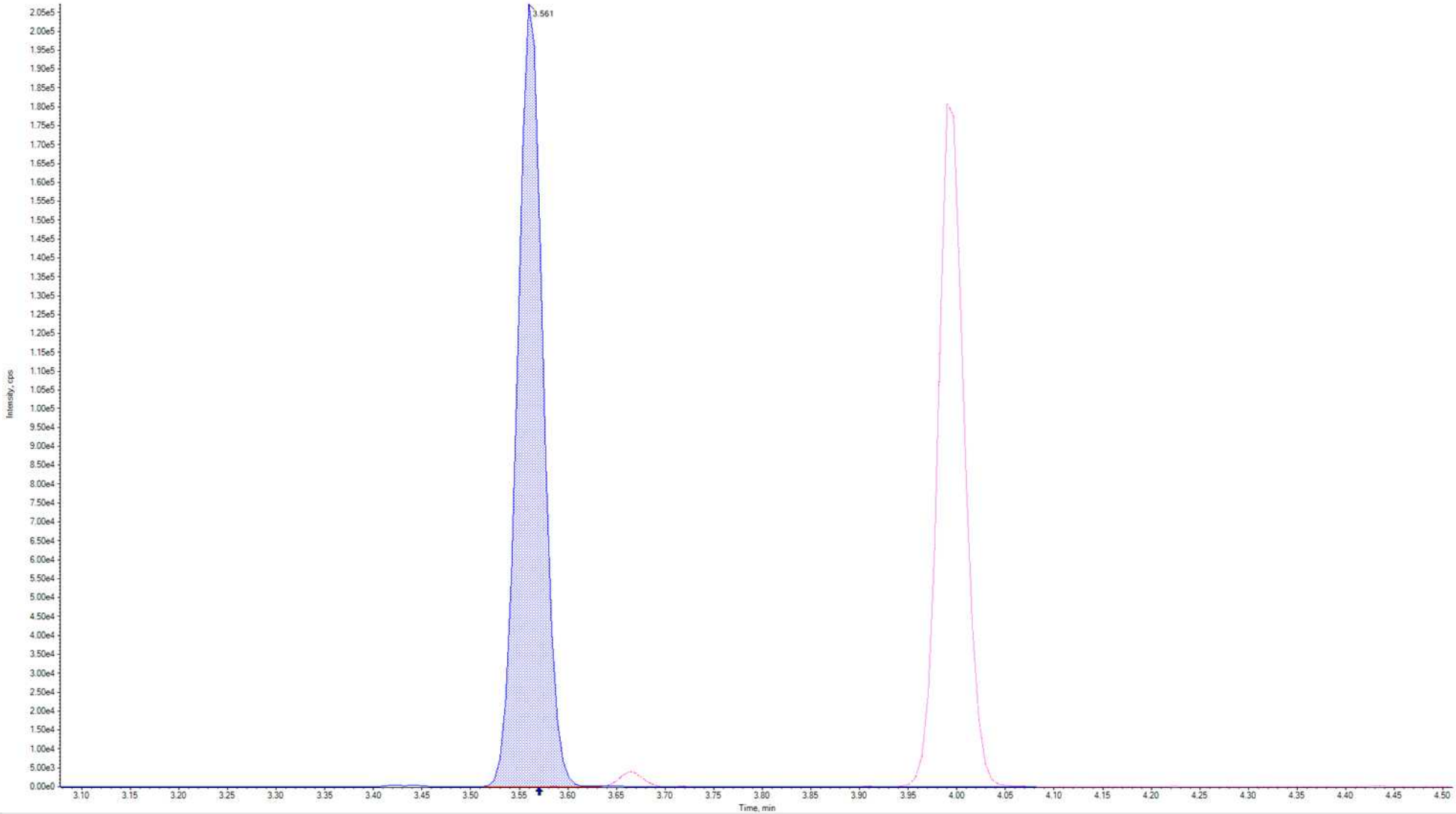
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFHpS
Sample: CA1633STD-10 S/N:14144.6 Points Across peak:27



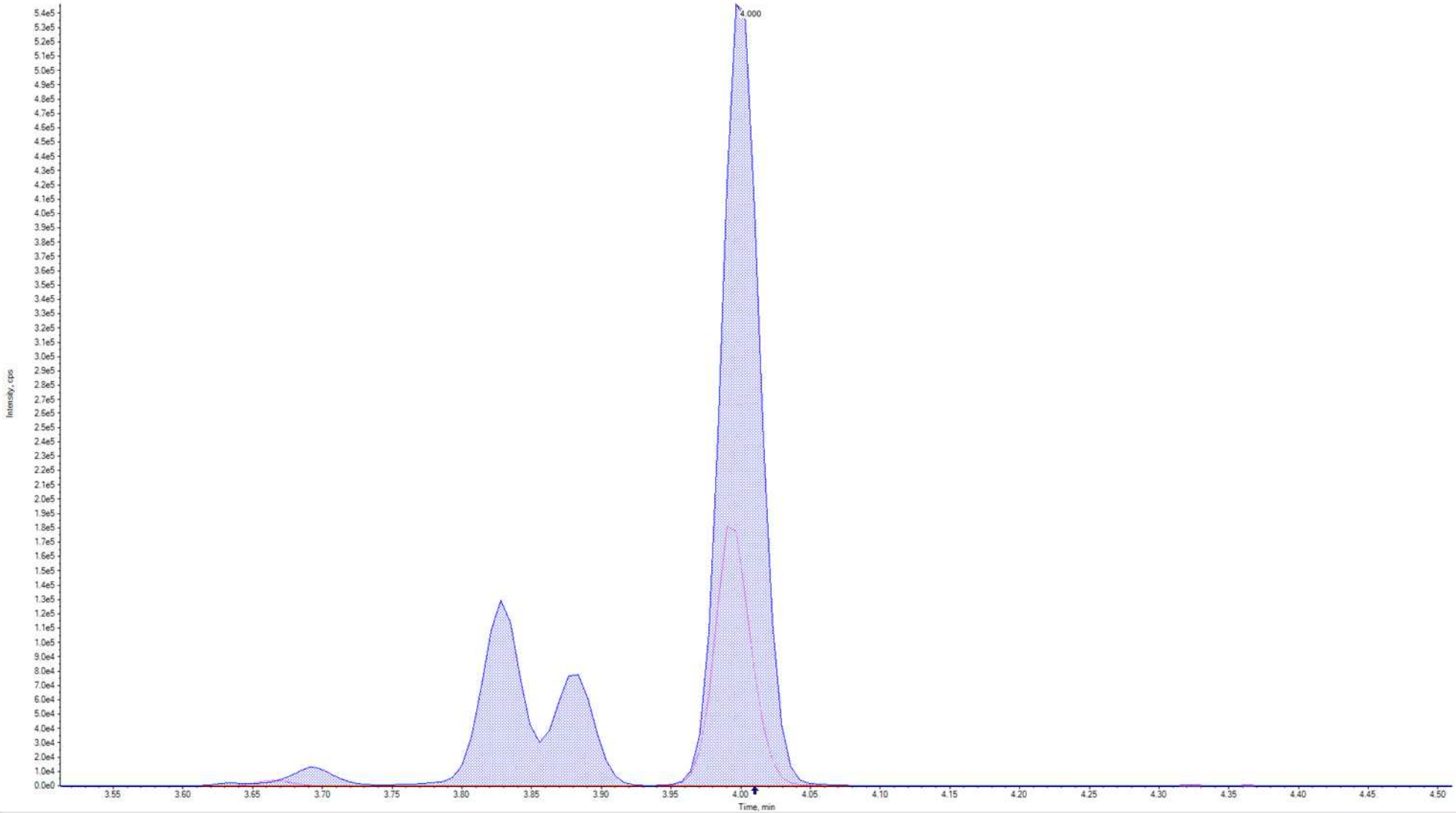
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFHpS_2
Sample: CA1633STD-10 S/N:4155.6 Points Across peak:26



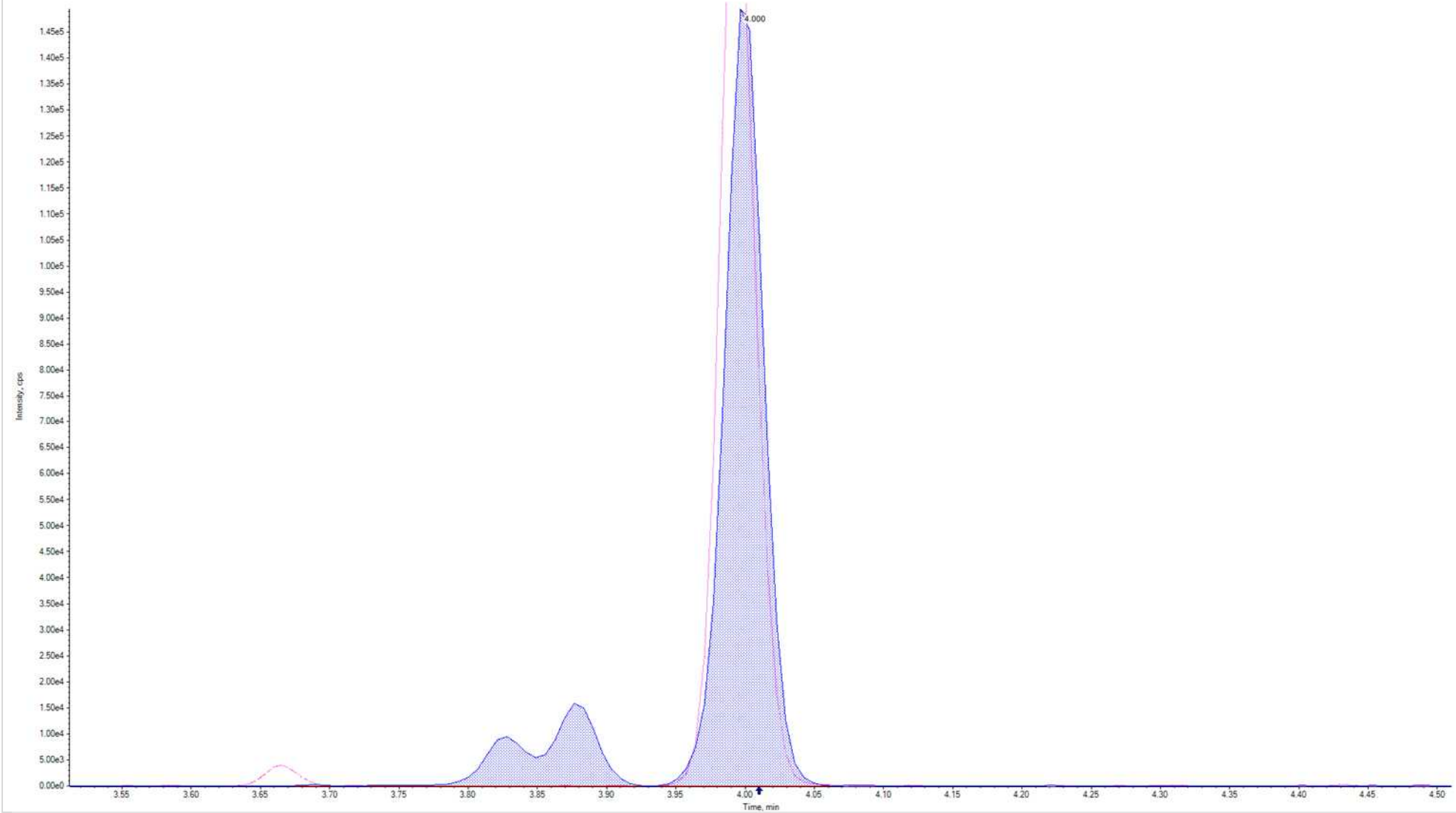
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFOS
Sample: CA1633STD-10 S/N:433.0 Points Across peak:78



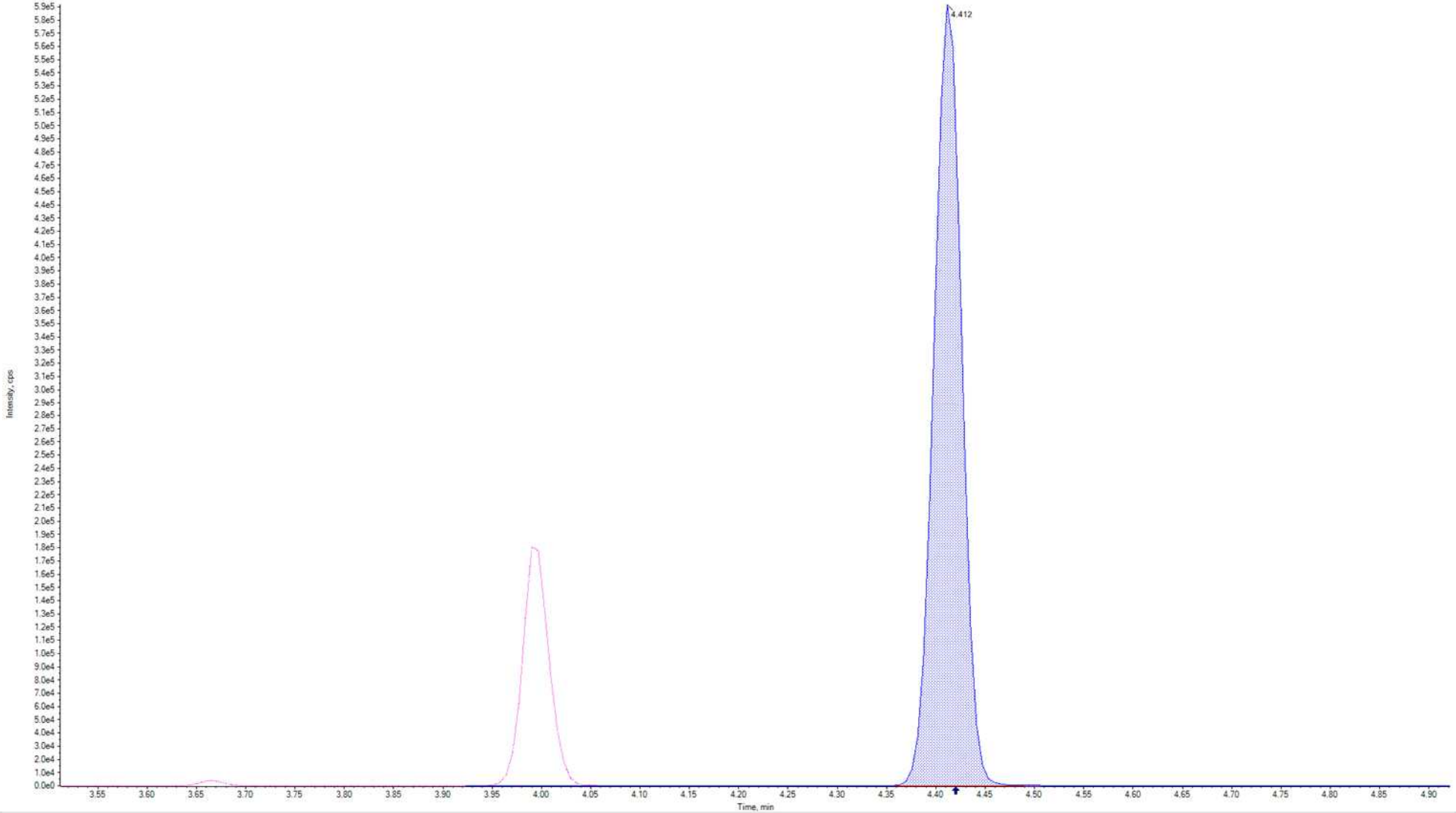
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFOS_2
Sample: CA1633STD-10 S/N:1045.5 Points Across peak:67



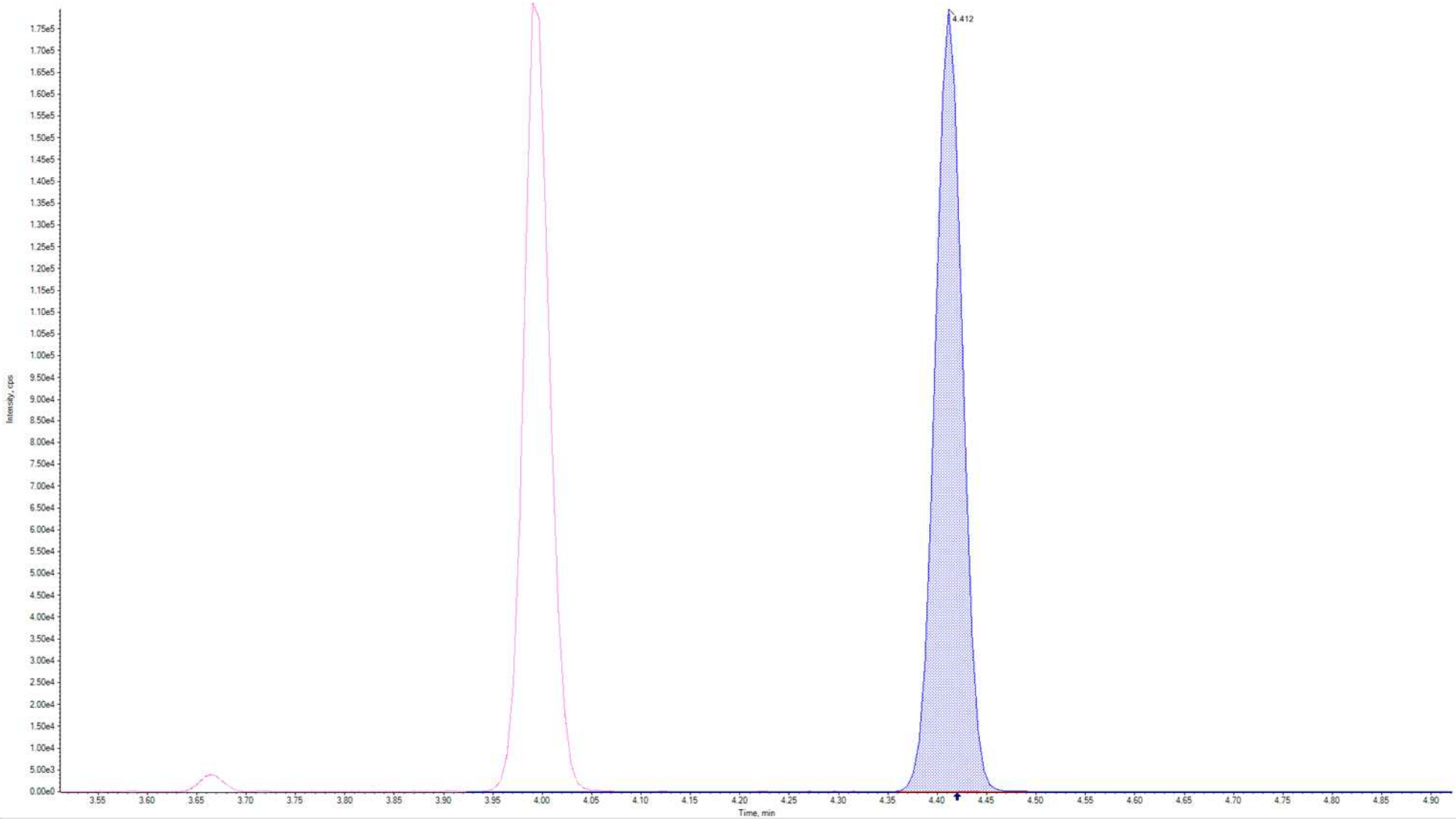
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFNS
Sample: CA1633STD-10 S/N:5513.9 Points Across peak:26



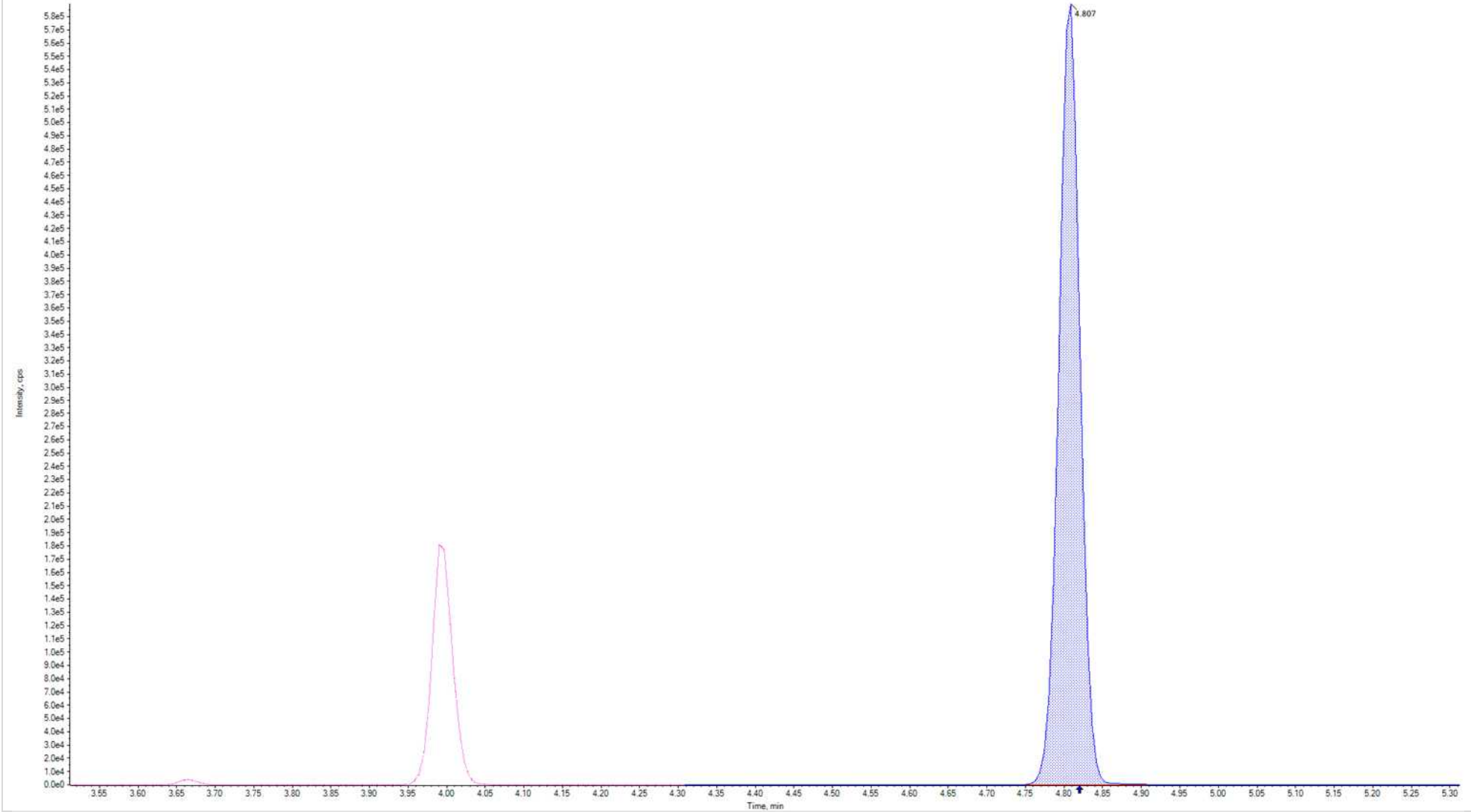
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFNS_2
Sample: CA1633STD-10 S/N:4499.5 Points Across peak:37



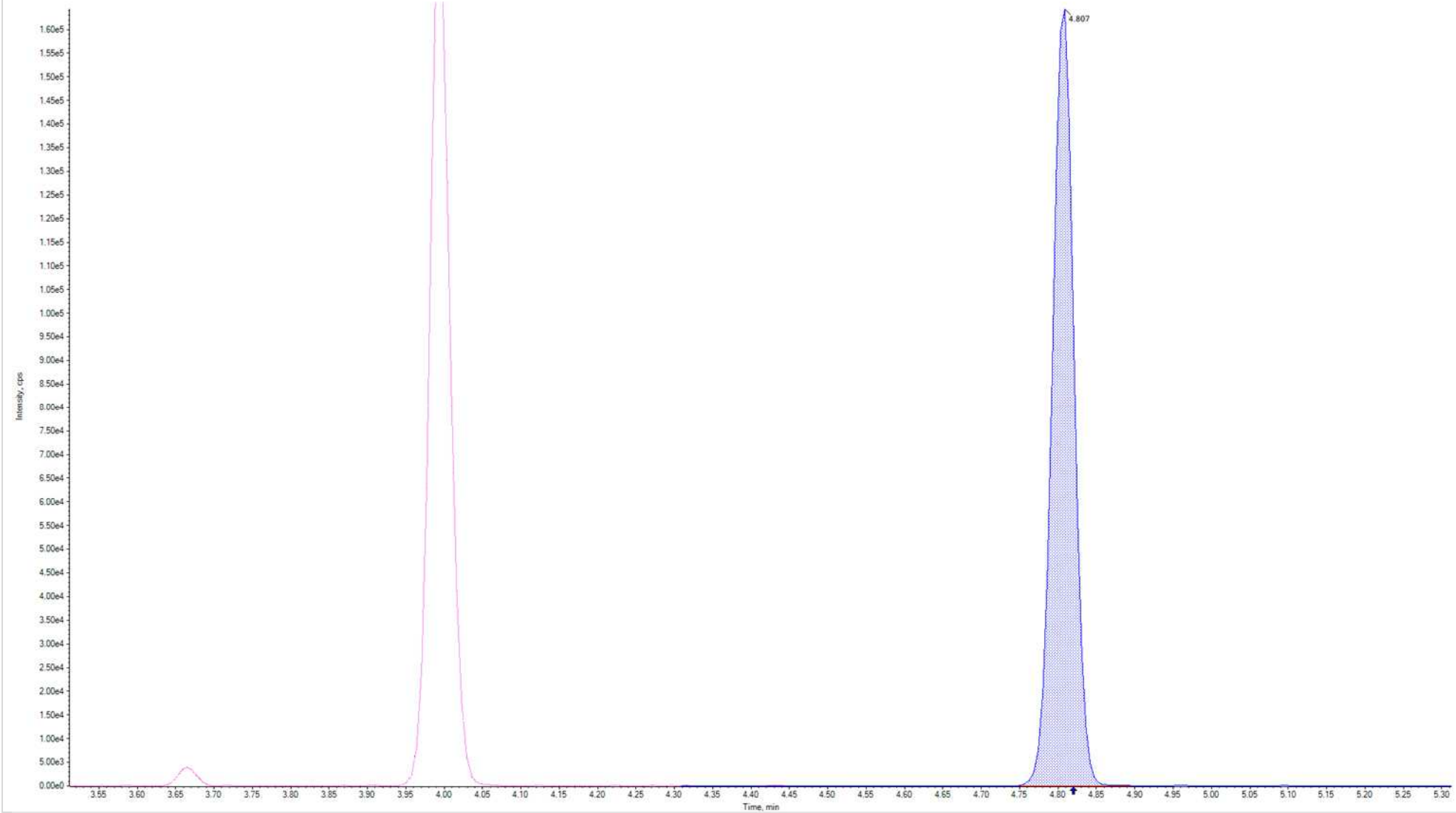
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFDS
Sample: CA1633STD-10 S/N:5317.3 Points Across peak:35



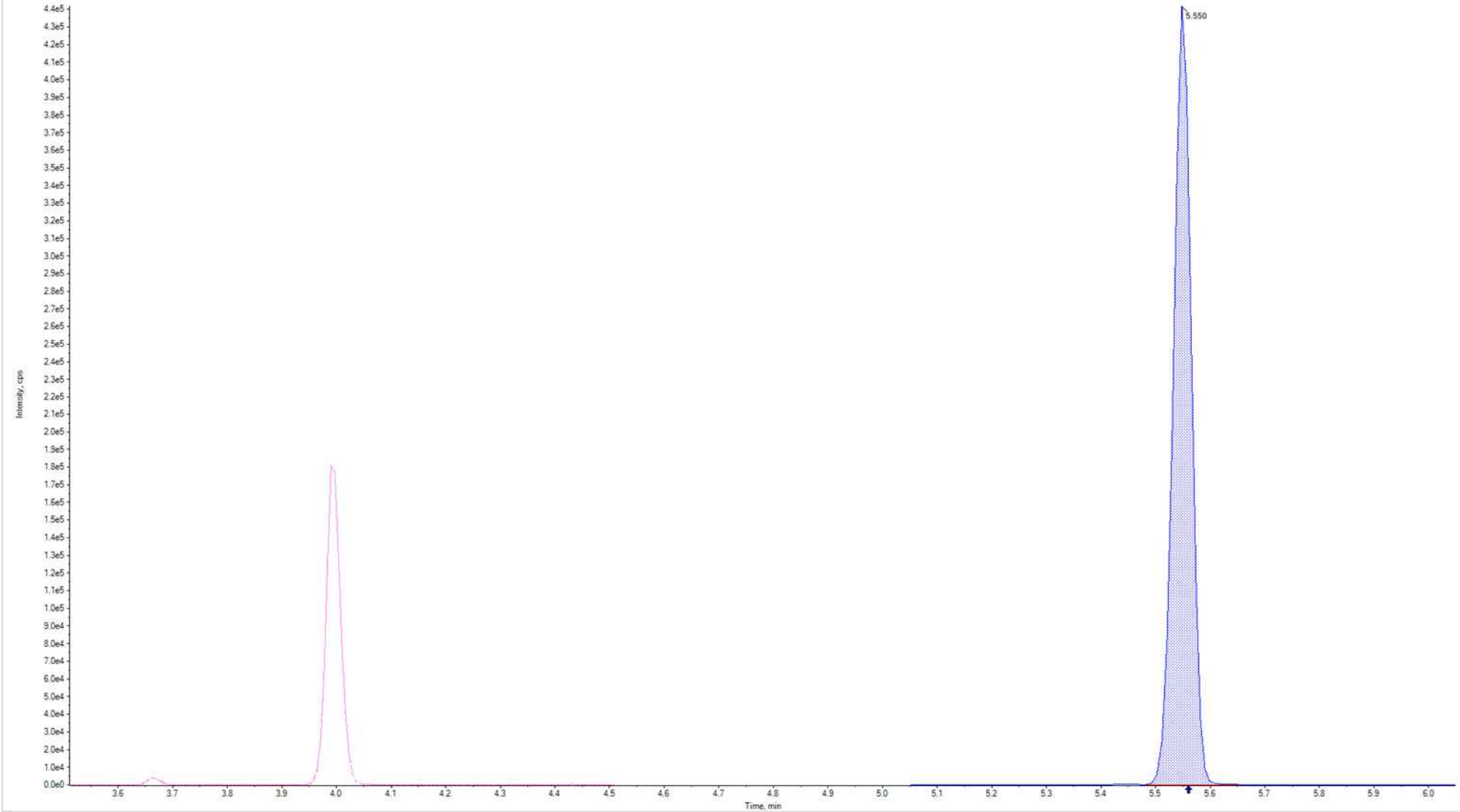
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFDS_2
Sample: CA1633STD-10 S/N:5766.6 Points Across peak:35



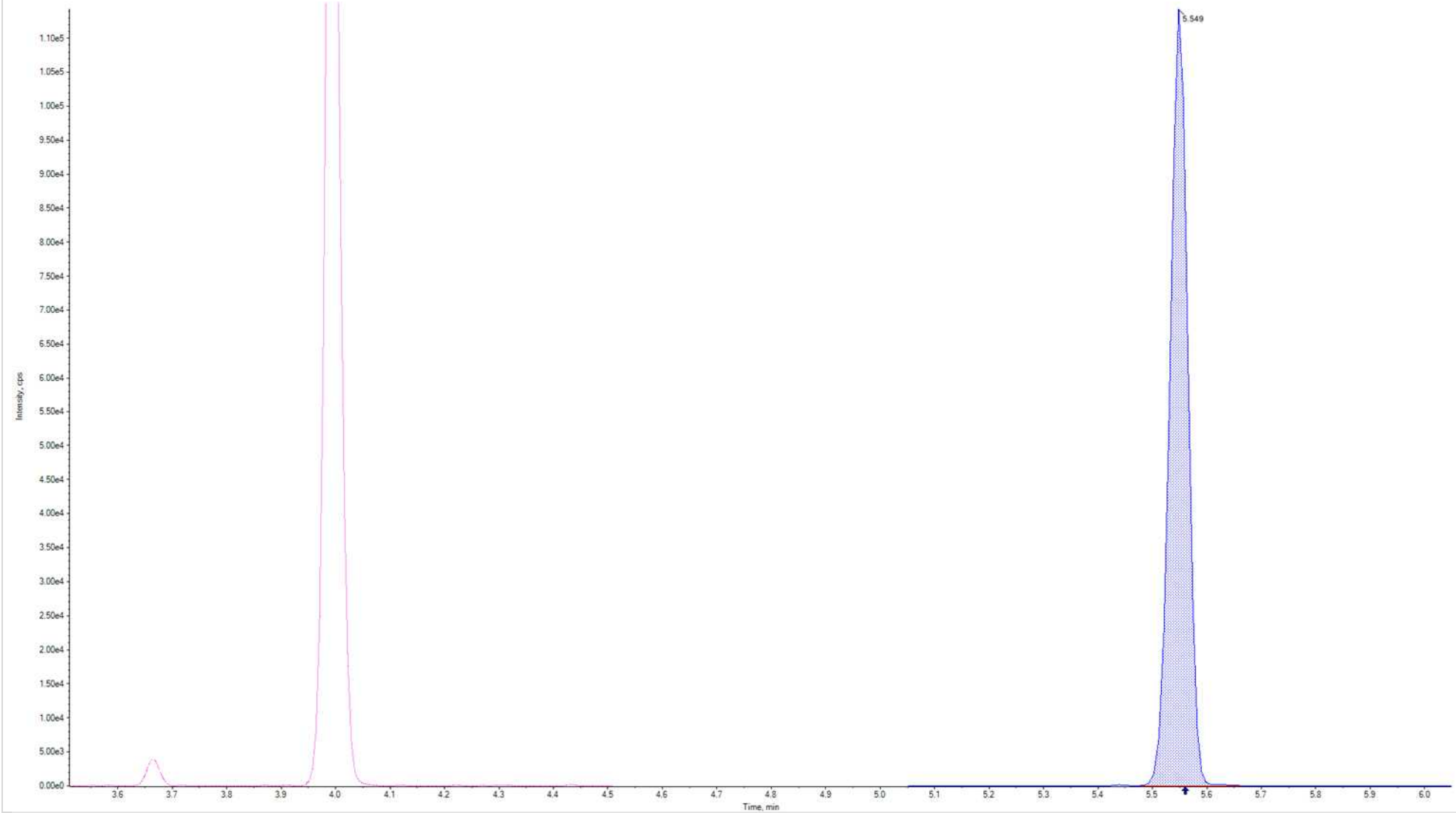
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFDoS
Sample: CA1633STD-10 S/N:3254.0 Points Across peak:27



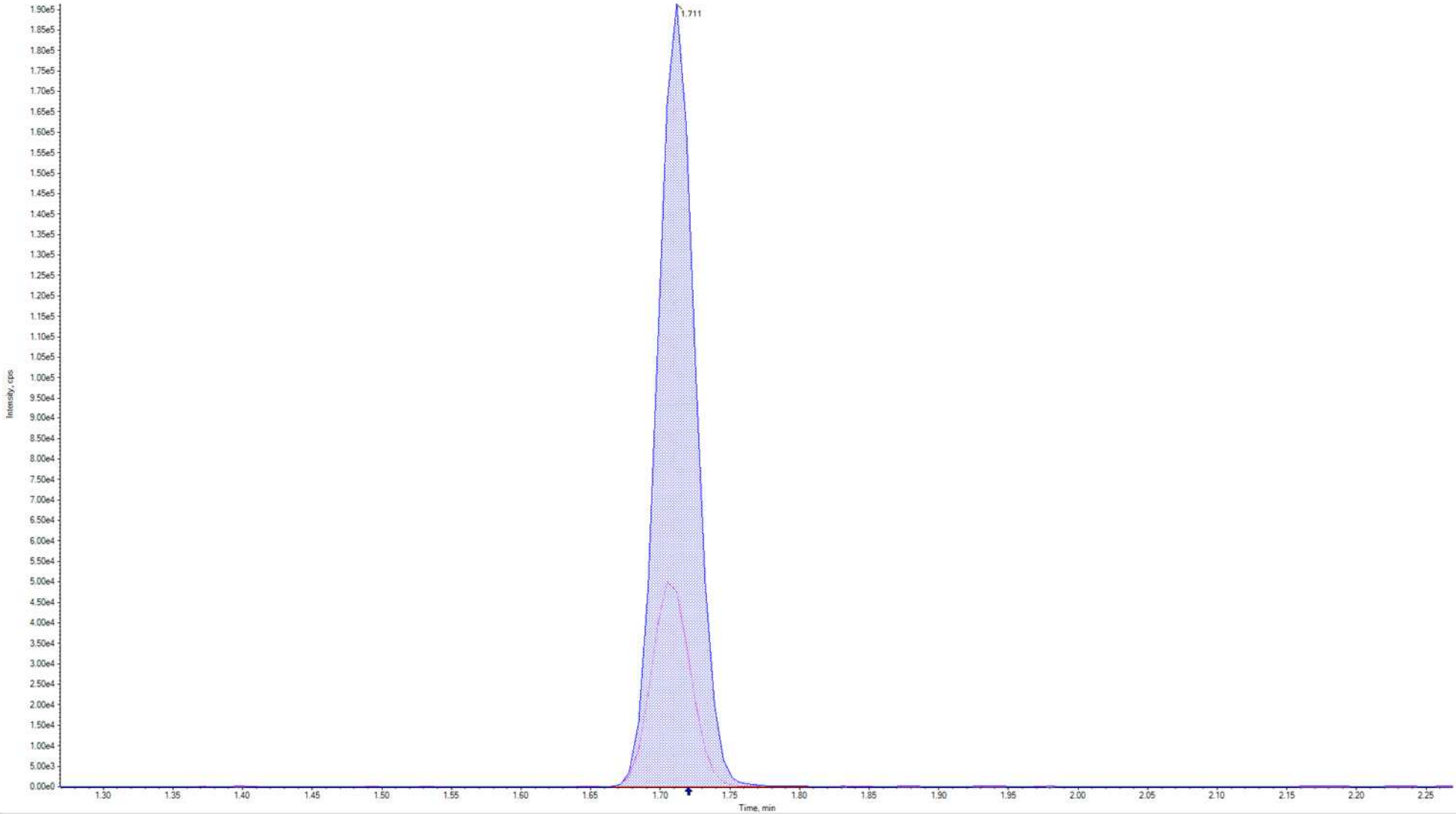
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFDoS_2
Sample: CA1633STD-10 S/N:4002.3 Points Across peak:25



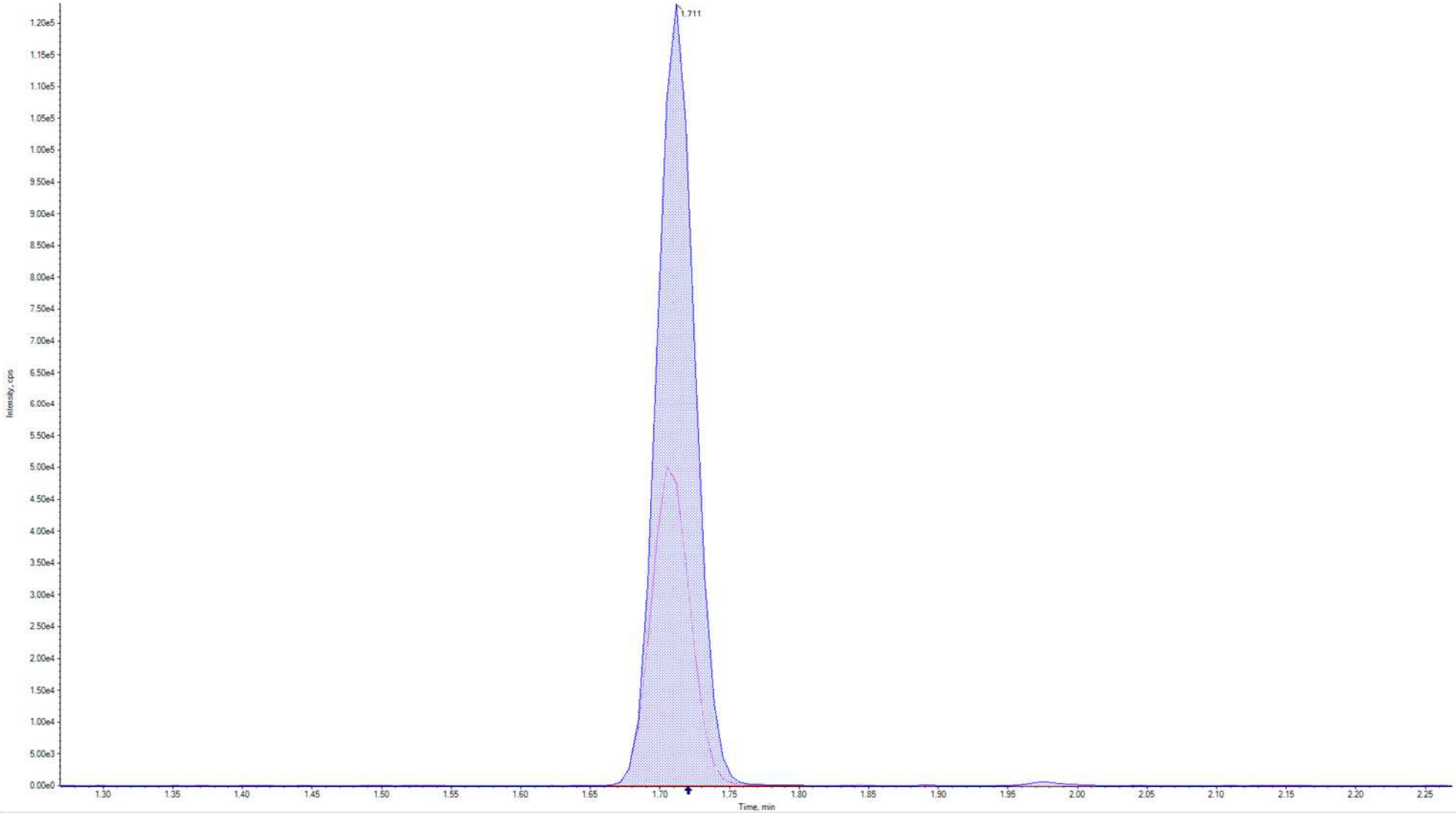
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

4:2FTS
Sample: CA1633STD-10 S/N:7195.6 Points Across peak:29



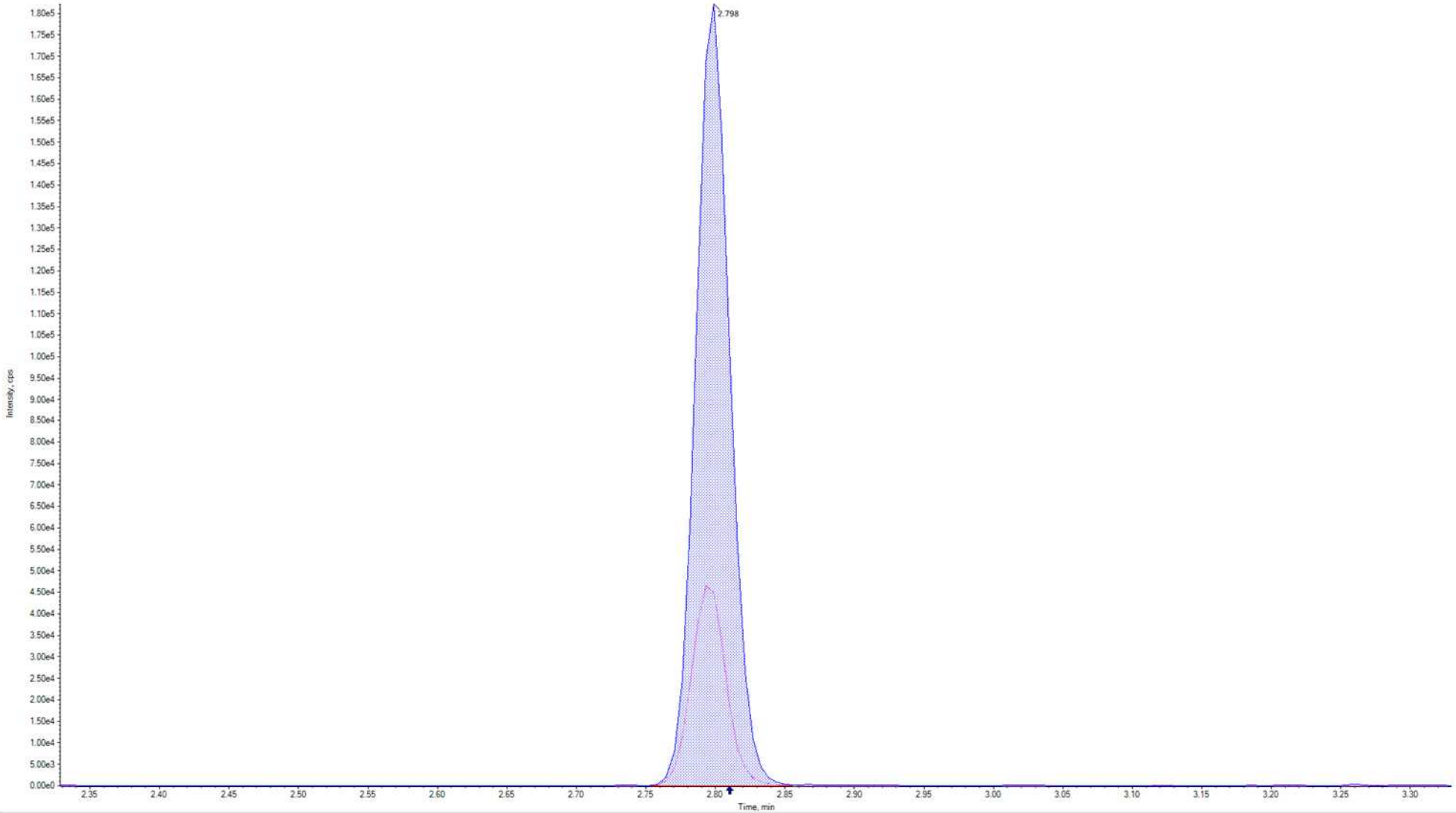
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

4:2FTS_2
Sample: CA1633STD-10 S/N:4097.6 Points Across peak:27



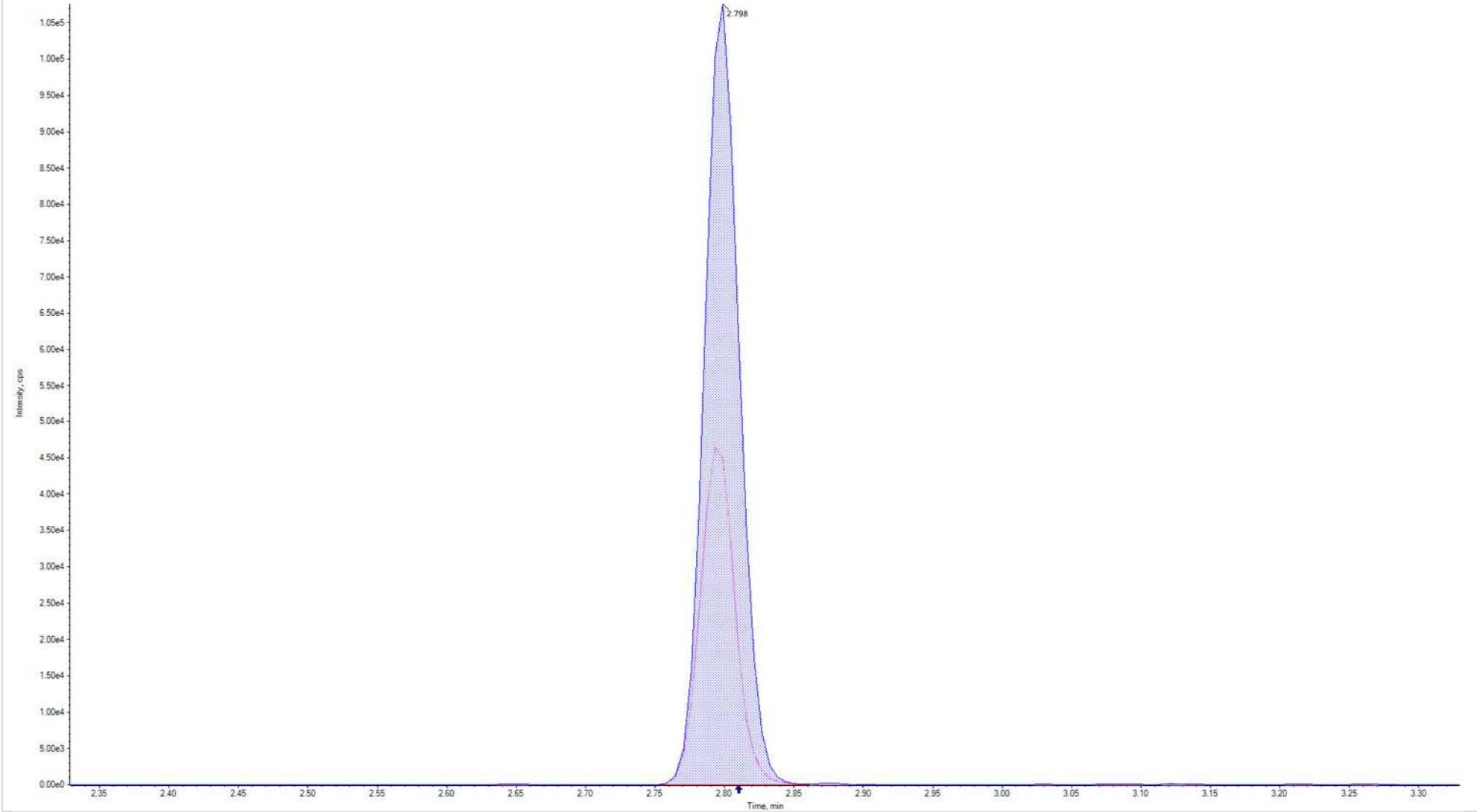
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

6:2FTS
Sample: CA1633STD-10 S/N:2808.2 Points Across peak:19



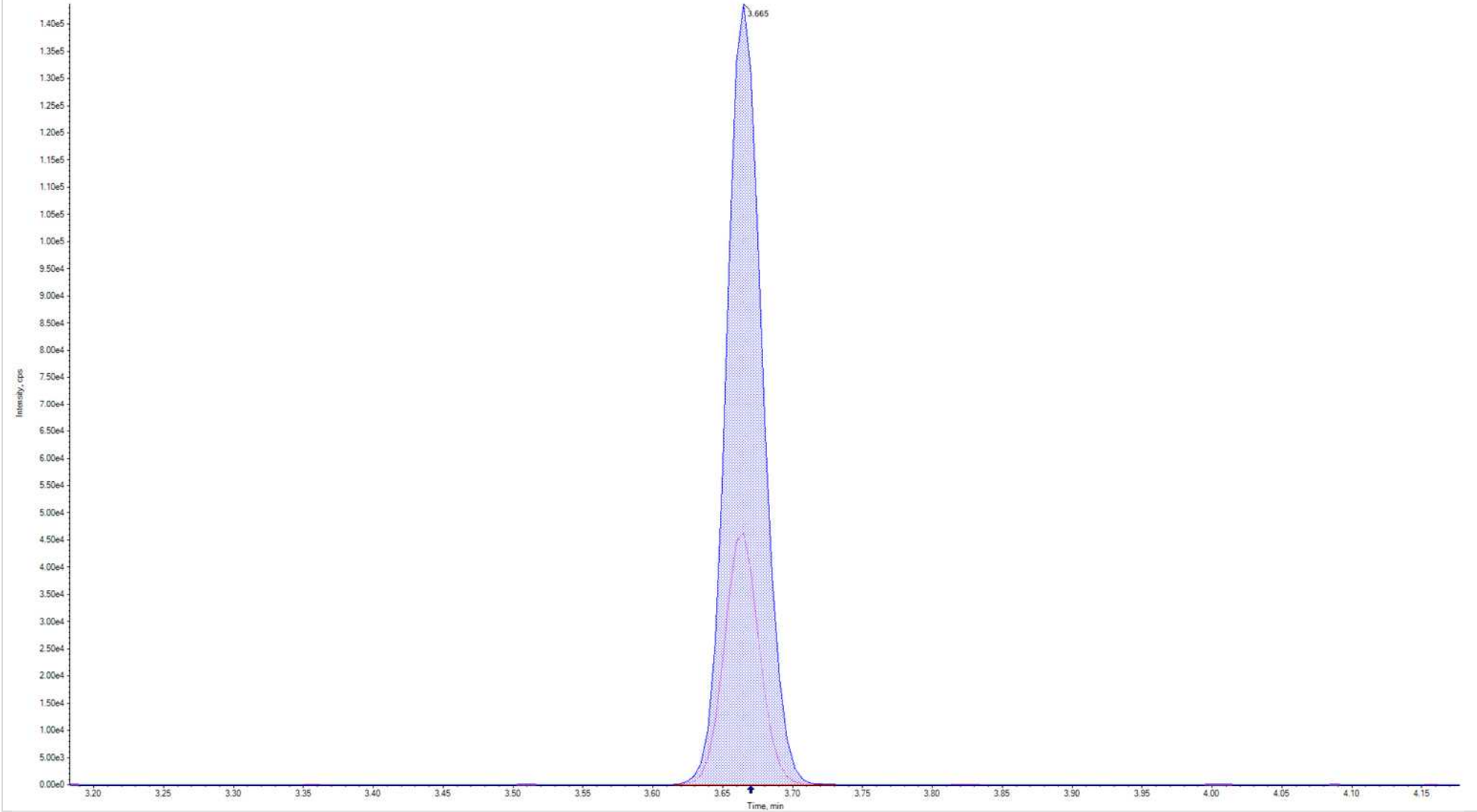
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

6:2FTS_2
Sample: CA1633STD-10 S/N:2158.0 Points Across peak:25



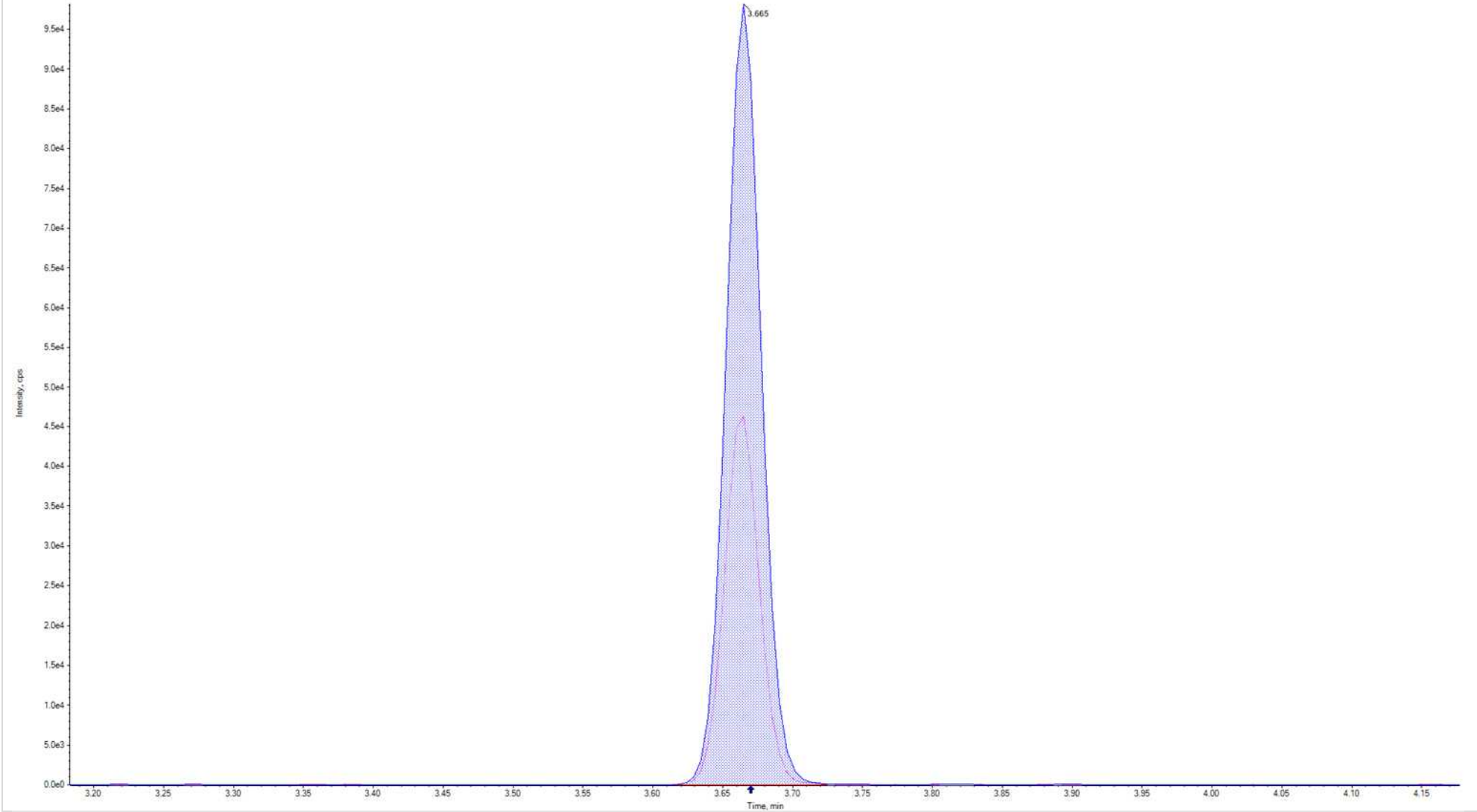
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

8:2FTS
Sample: CA1633STD-10 S/N:2882.2 Points Across peak:32



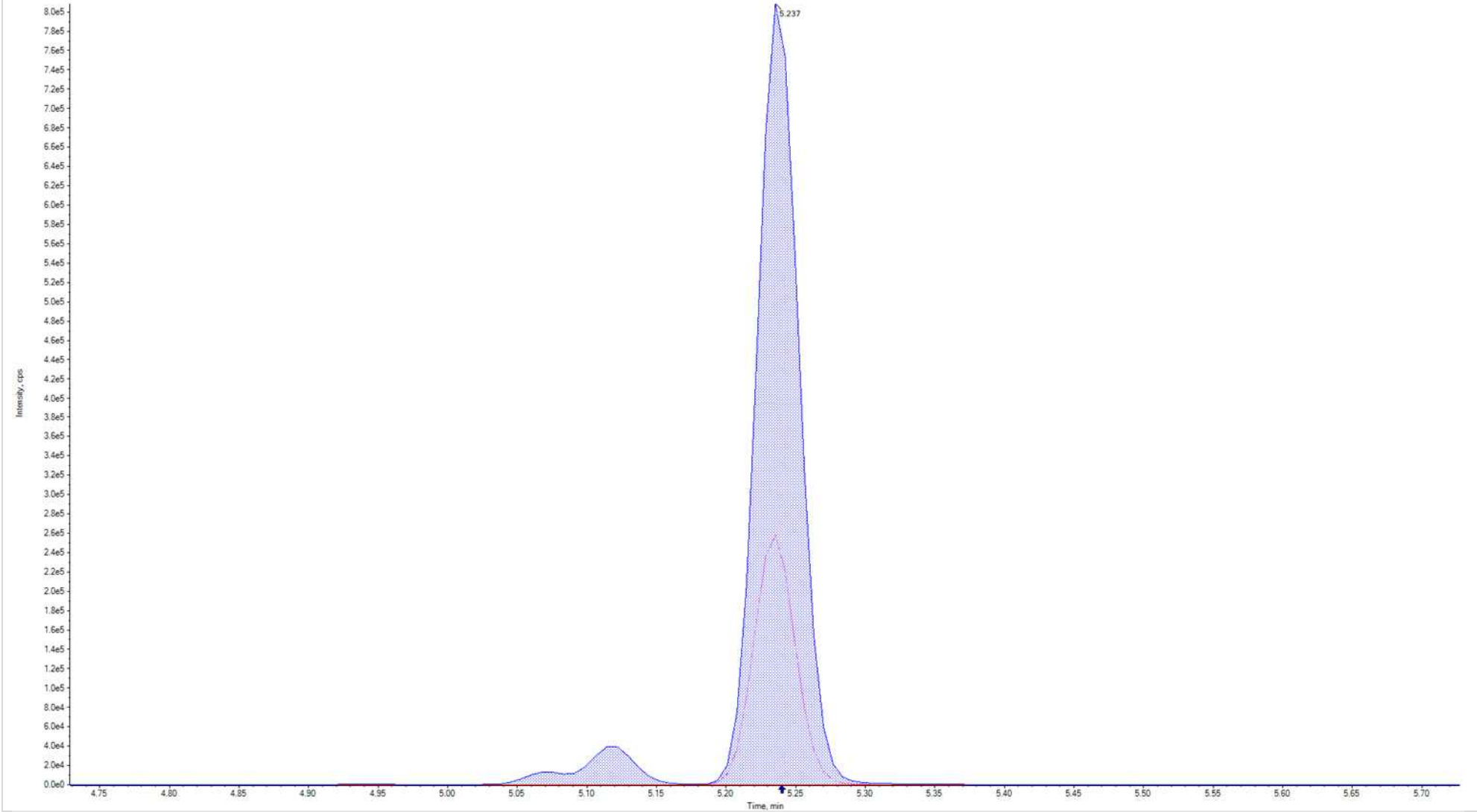
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

8:2FTS_2
Sample: CA1633STD-10 S/N:1969.1 Points Across peak:24



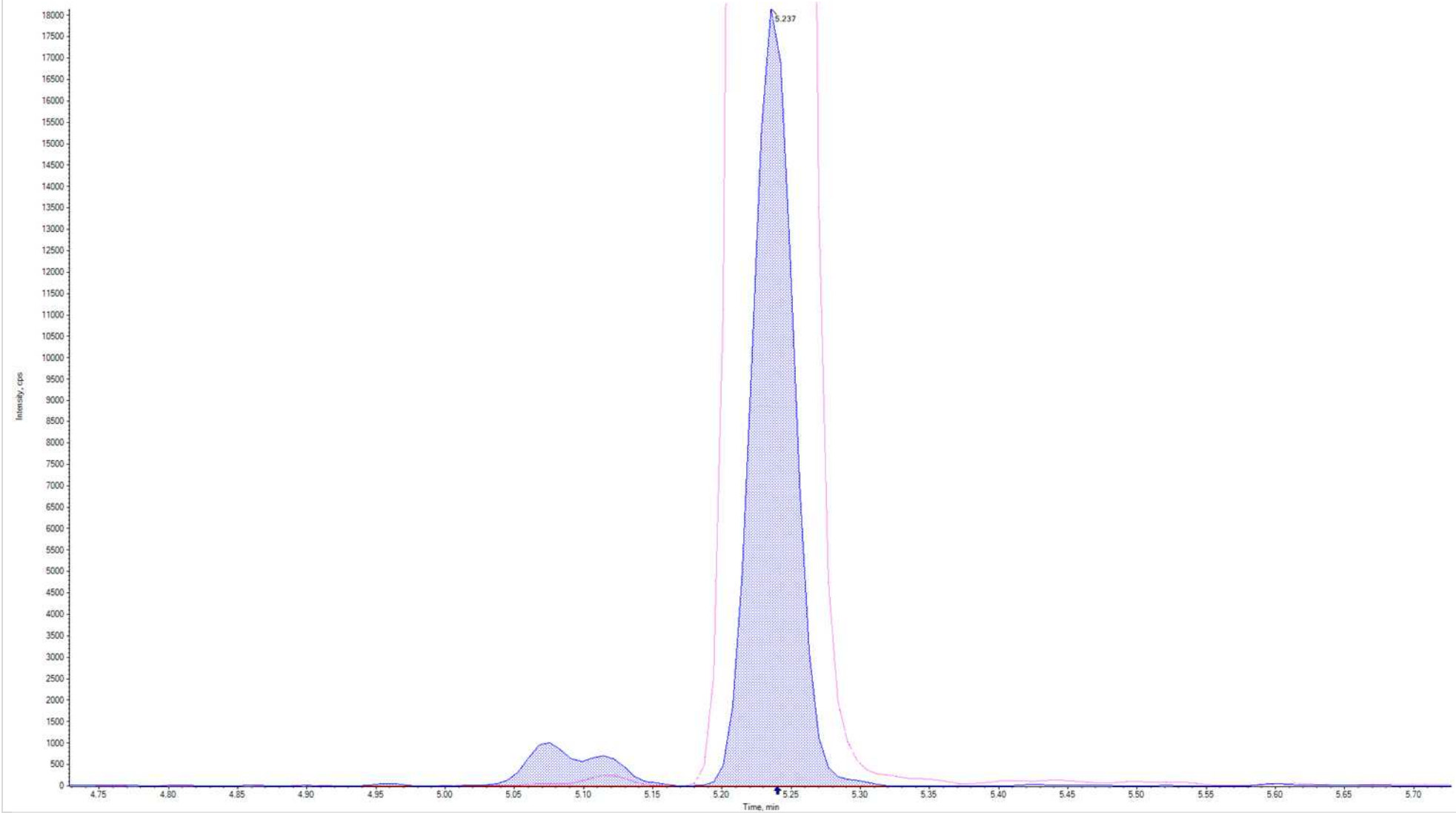
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFOSA
Sample: CA1633STD-10 S/N:1083.0 Points Across peak:76



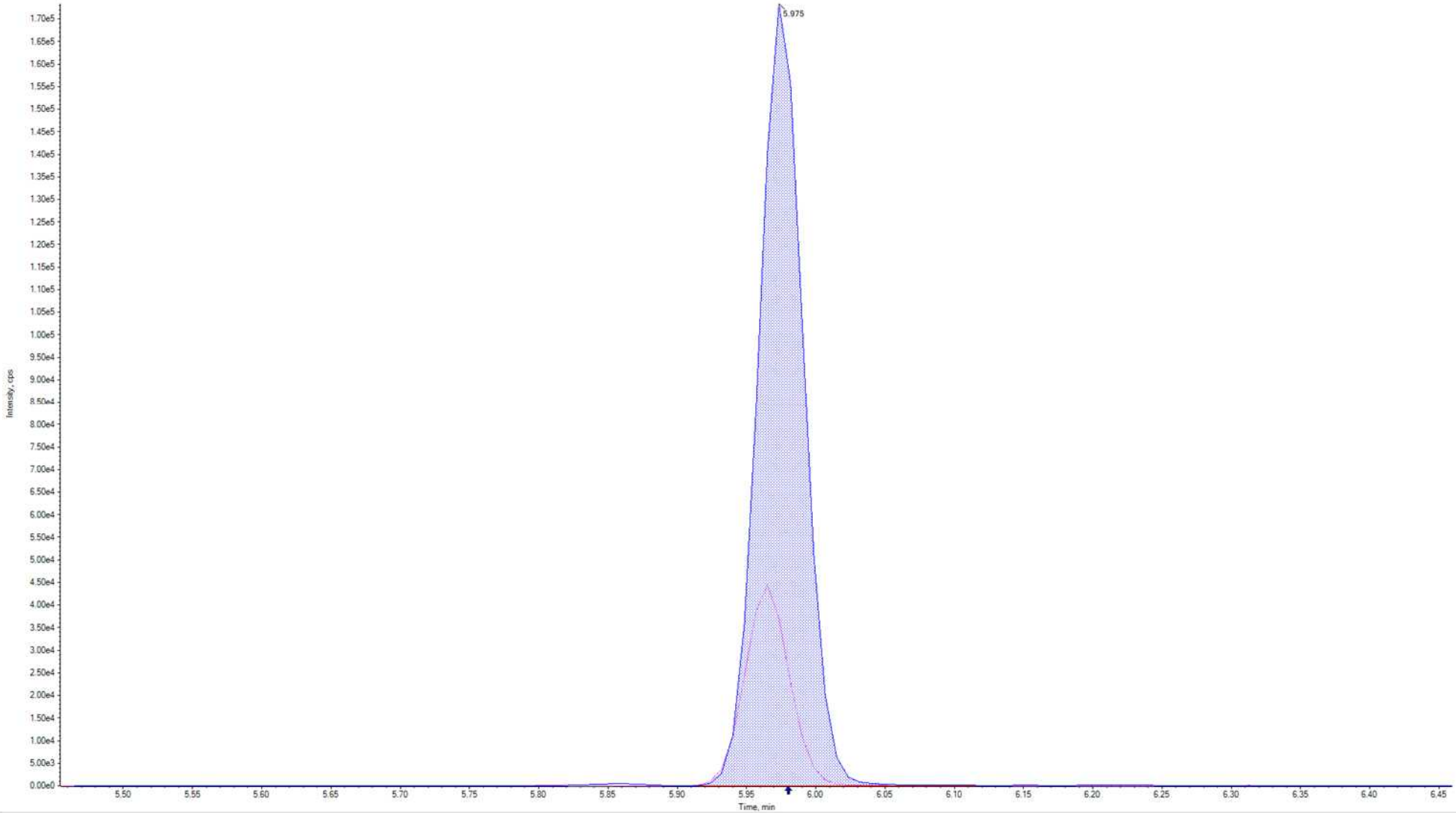
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFOSA_2
Sample: CA1633STD-10 S/N:634.0 Points Across peak:59



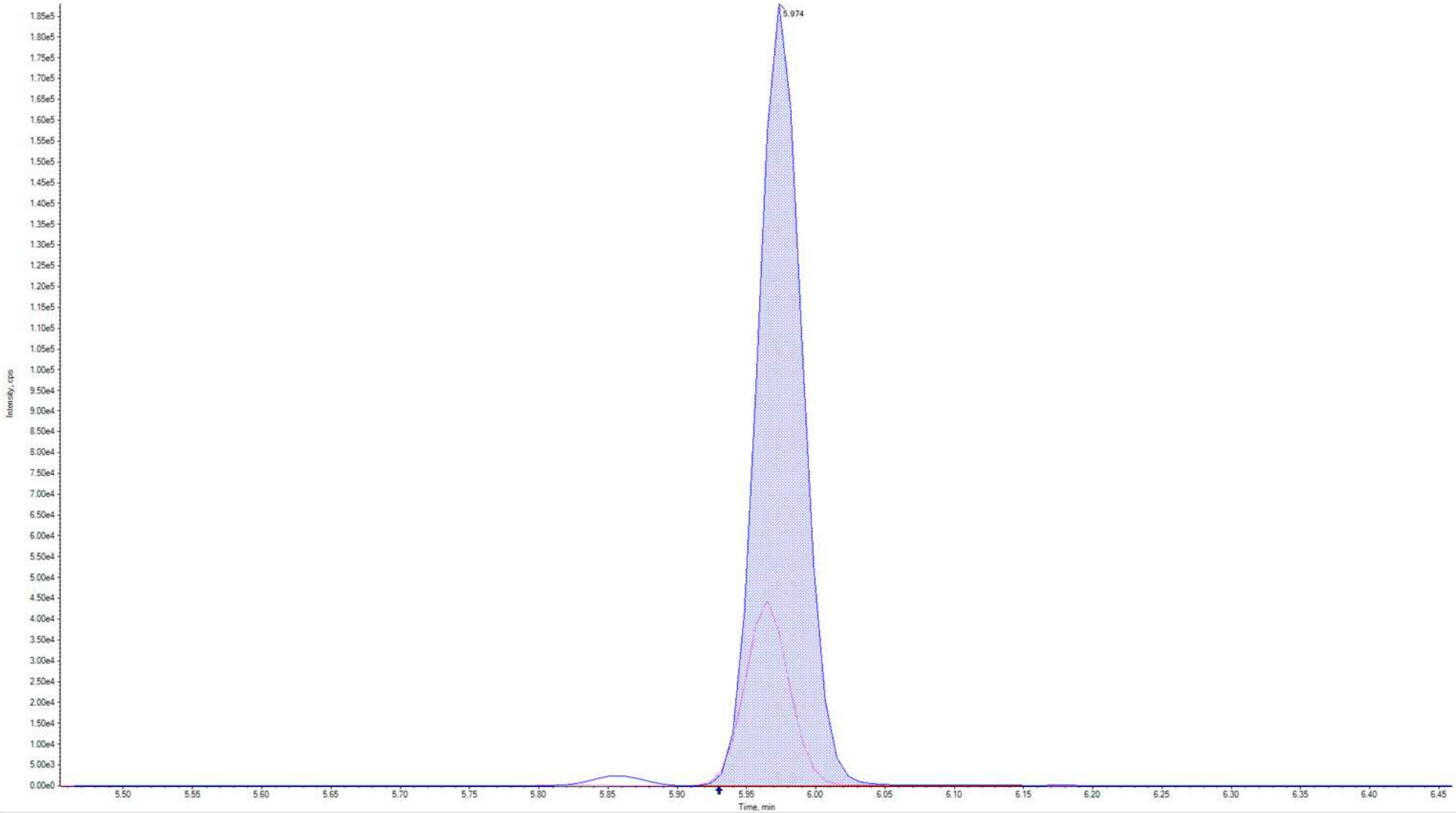
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NMeFOSA
Sample: CA1633STD-10 S/N:1562.8 Points Across peak:29



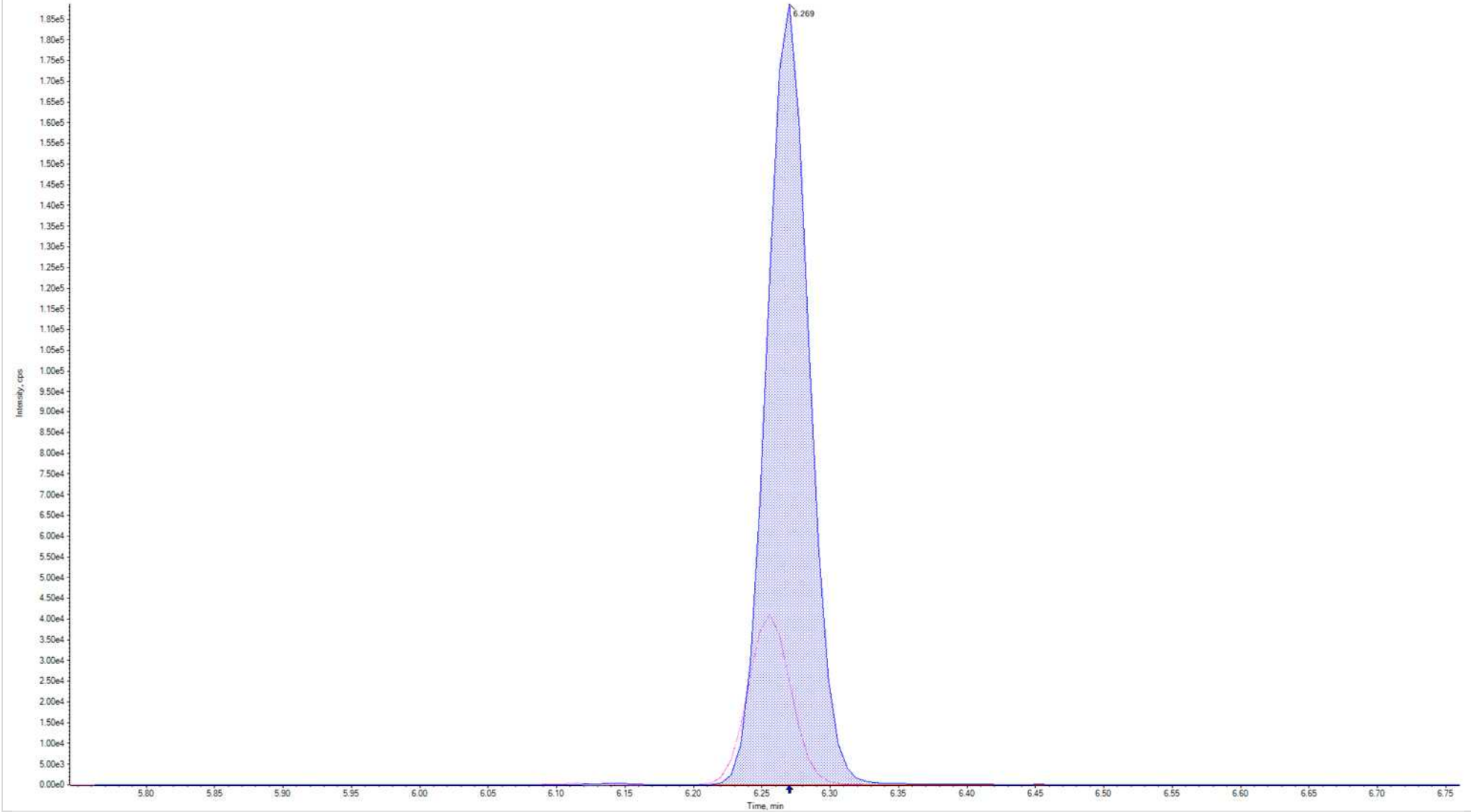
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NMeFOSA_2
Sample: CA1633STD-10 S/N:1459.5 Points Across peak:33



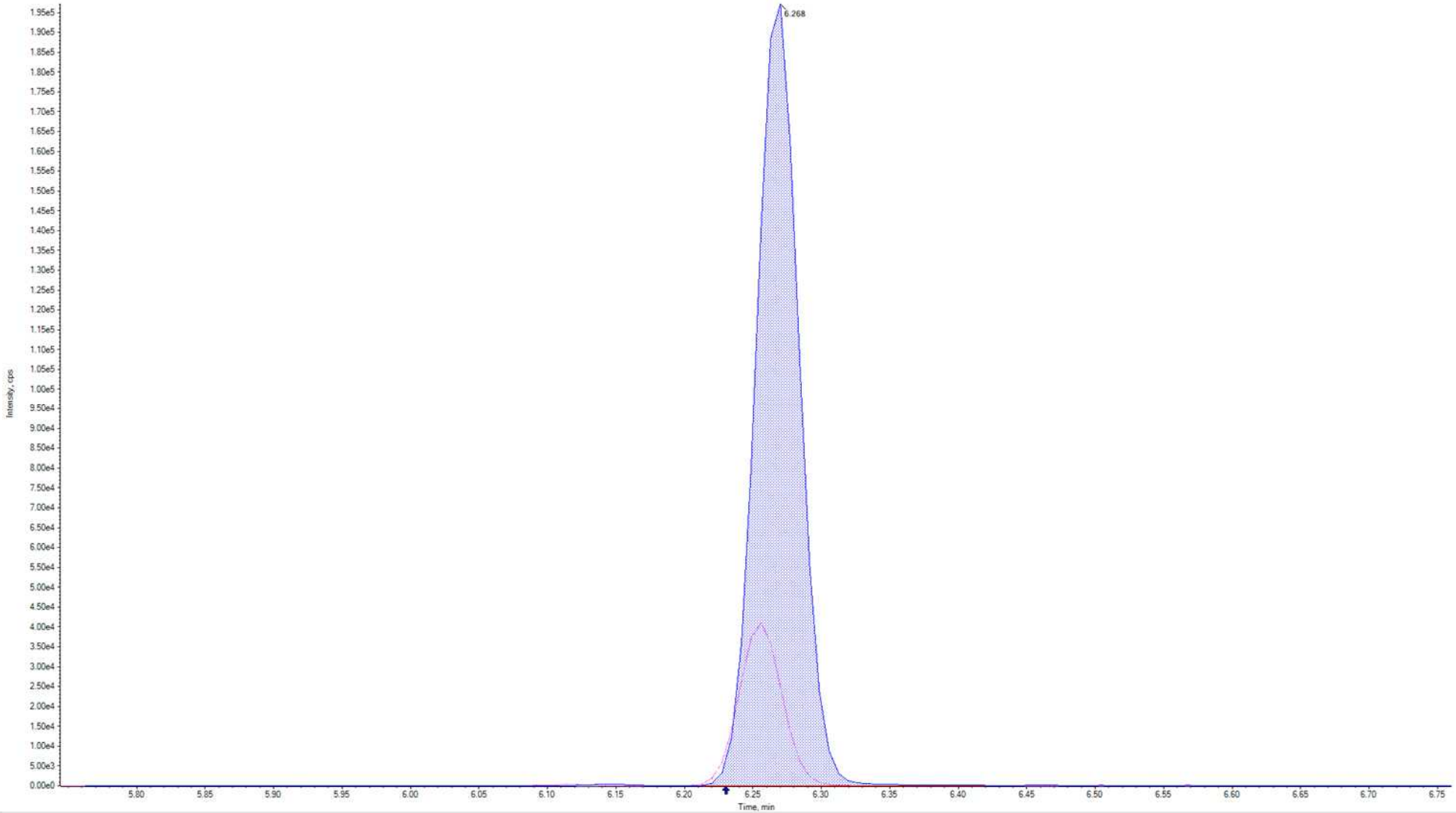
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NEtFOSA
Sample: CA1633STD-10 S/N:3227.0 Points Across peak:47



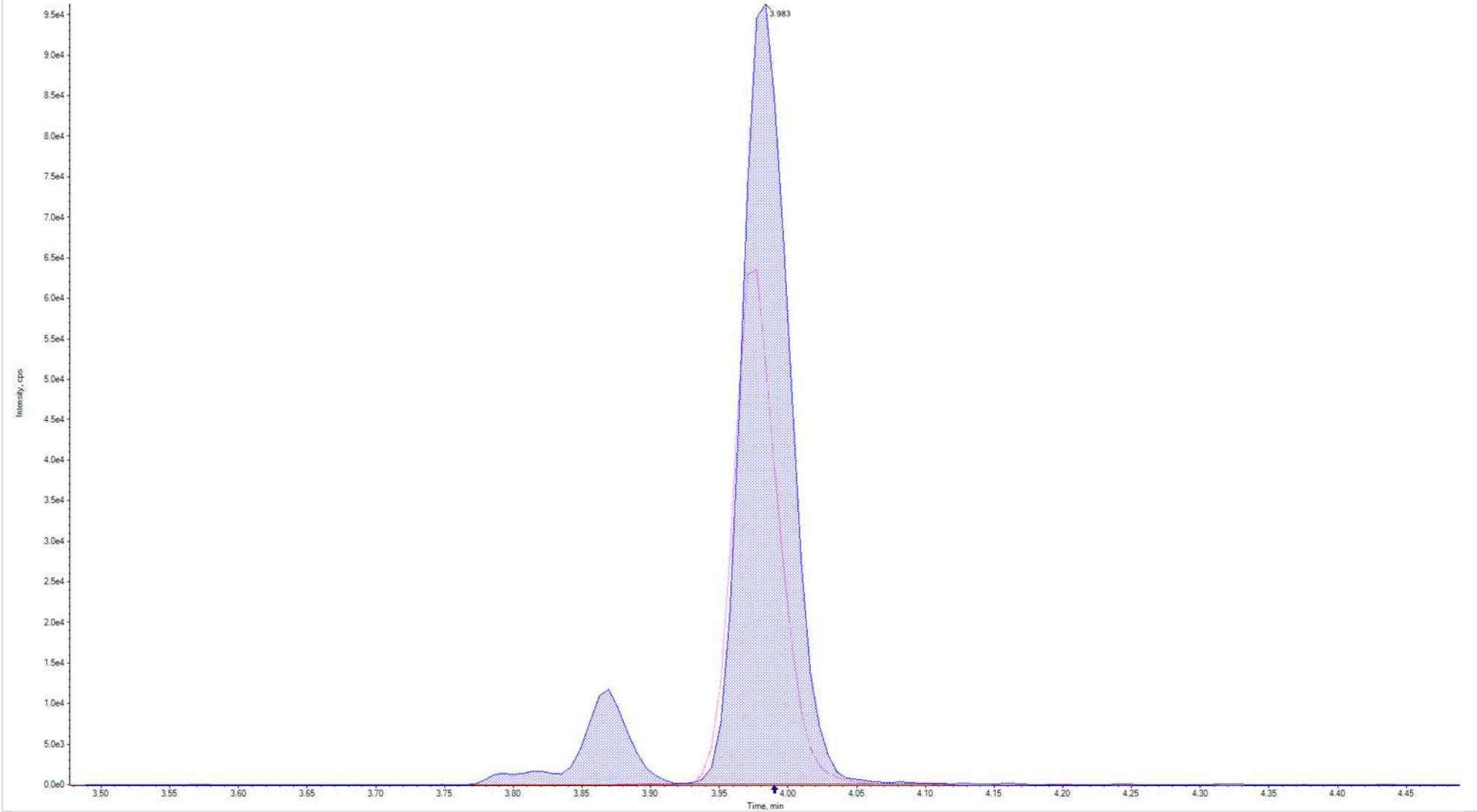
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NEtFOSA_2
Sample: CA1633STD-10 S/N:3445.5 Points Across peak:38



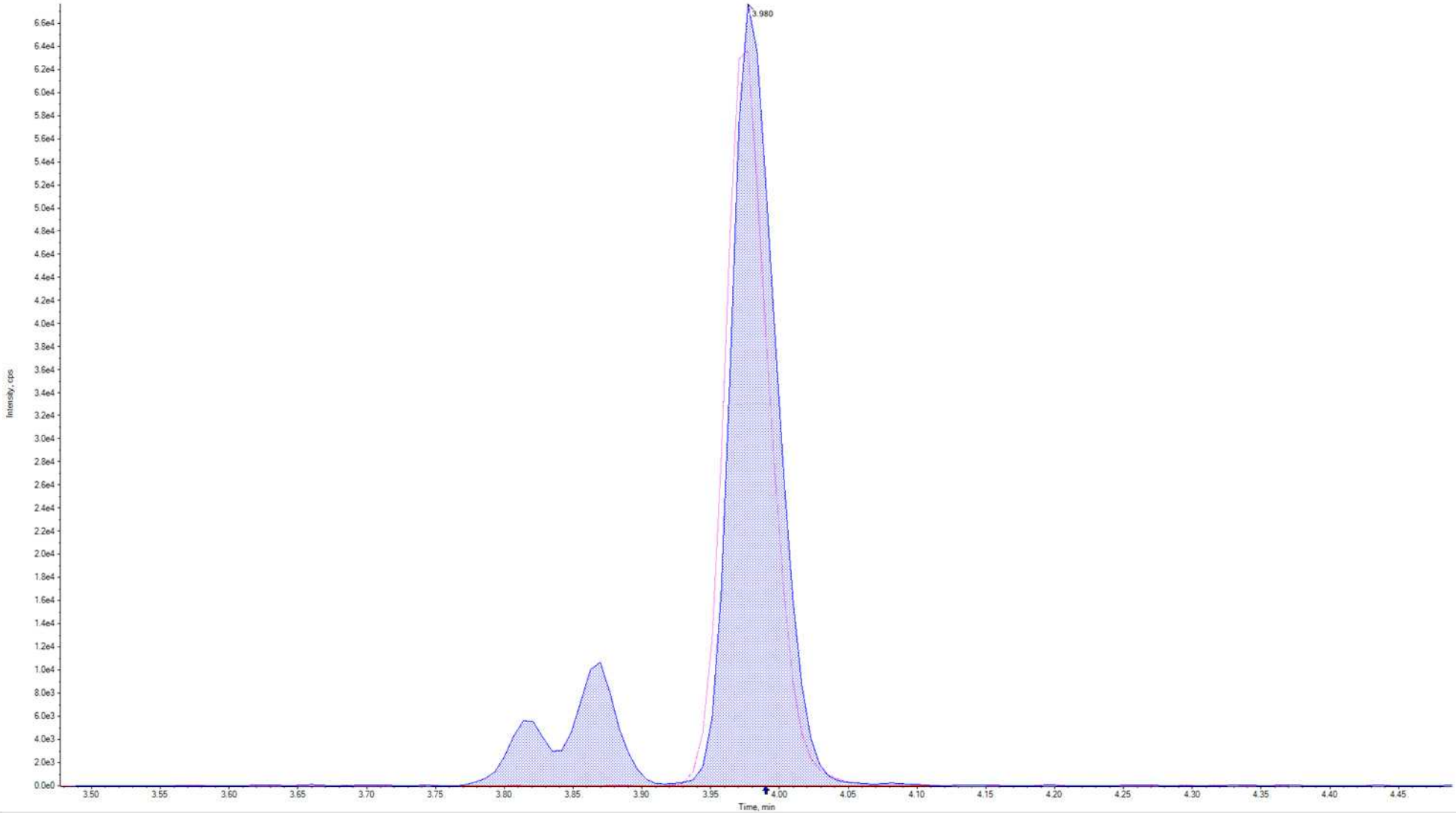
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NMeFOSAA
Sample: CA1633STD-10 S/N:686.9 Points Across peak:55



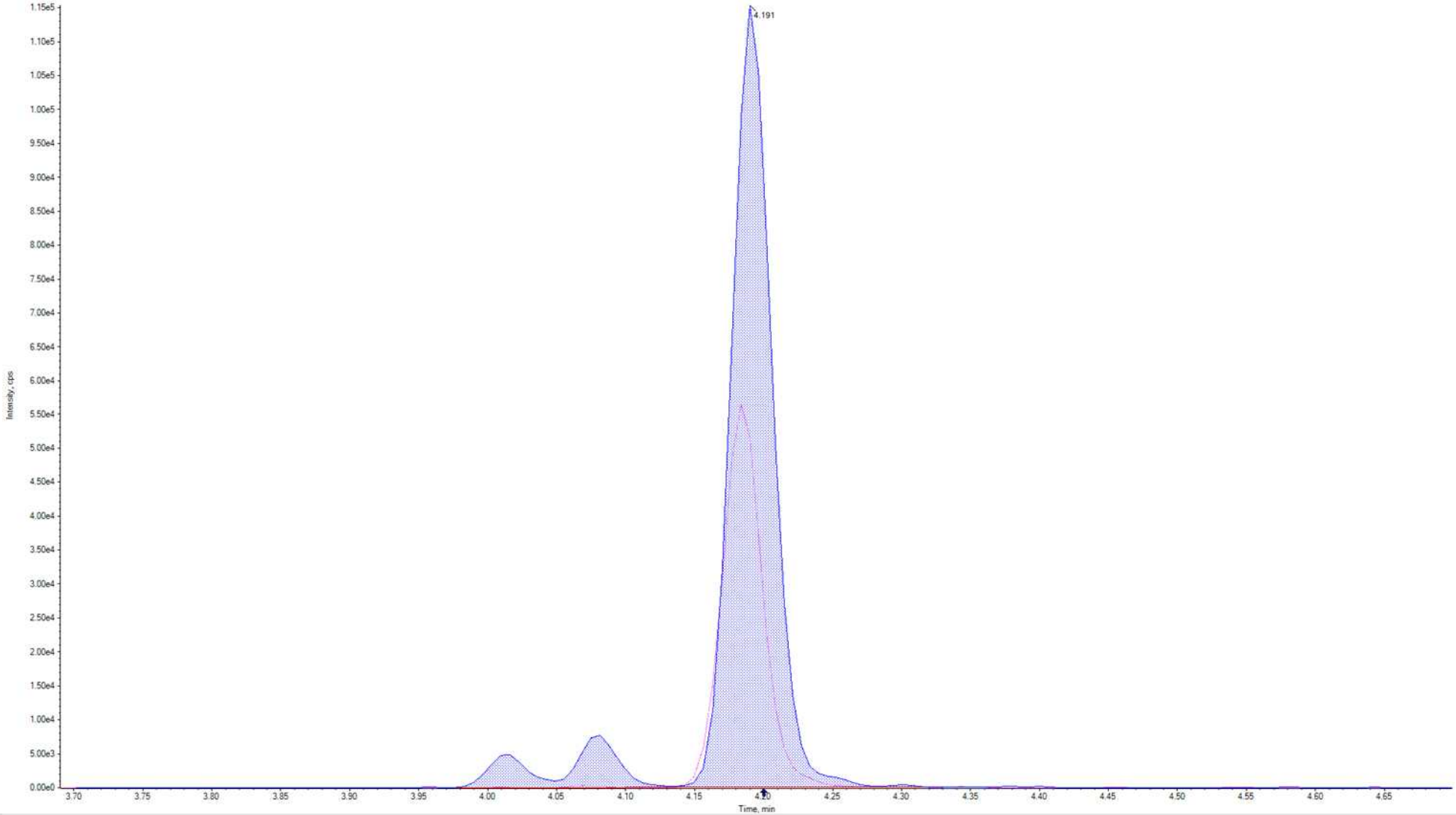
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NMeFOSAA_2
Sample: CA1633STD-10 S/N:646.1 Points Across peak:55



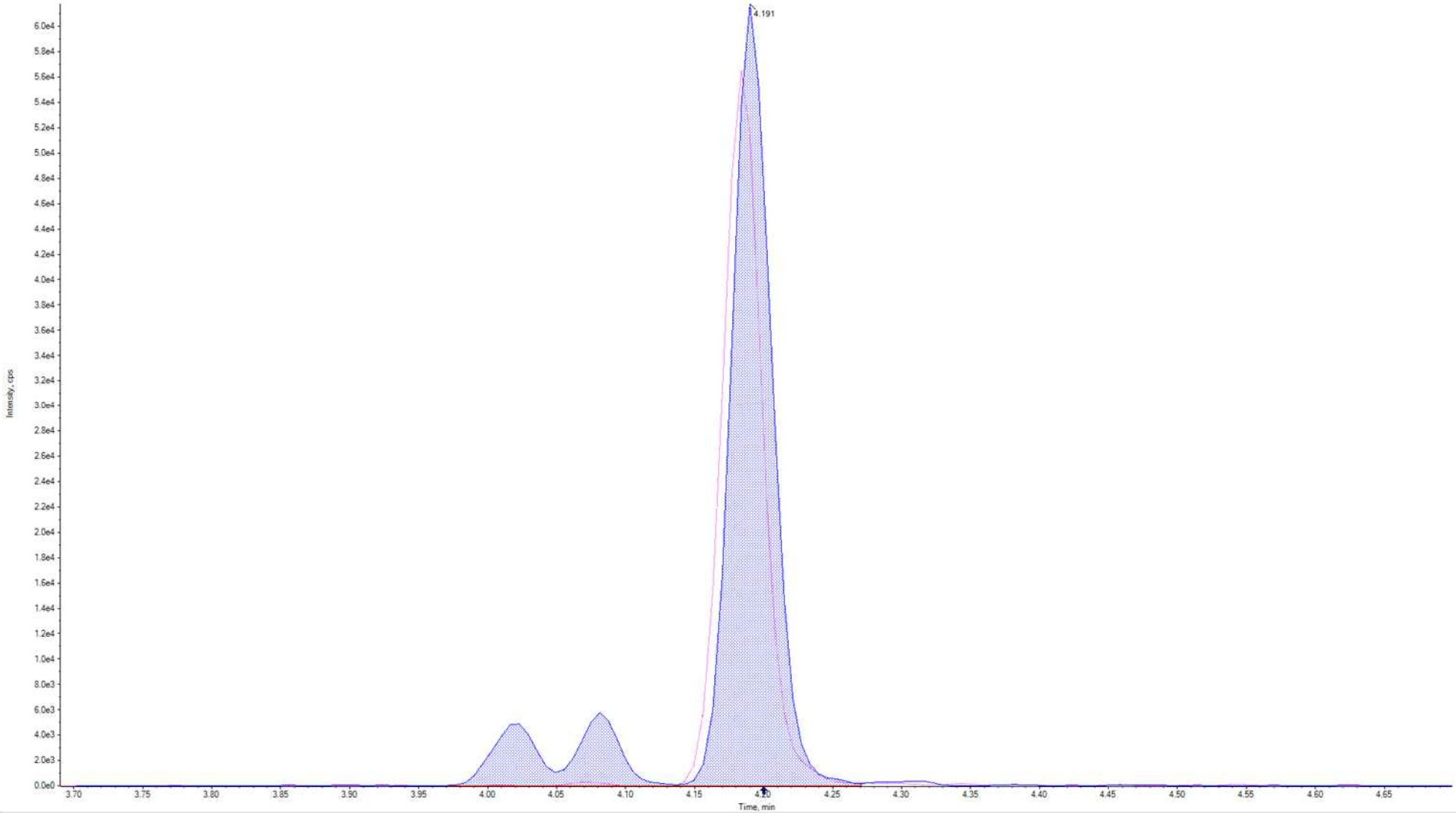
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NEtFOSAA
Sample: CA1633STD-10 S/N:786.7 Points Across peak:56



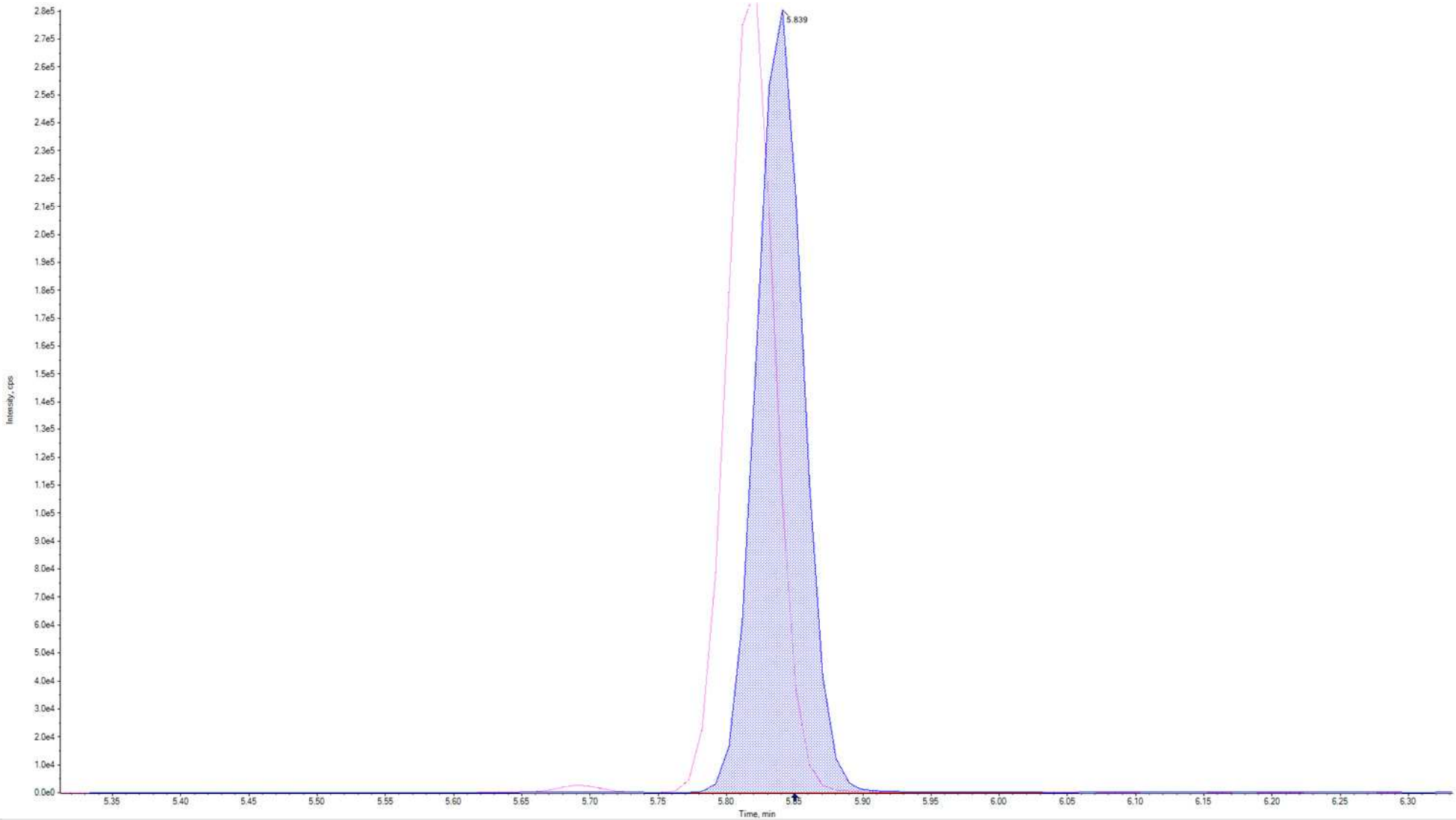
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NEtFOSAA_2
Sample: CA1633STD-10 S/N:542.5 Points Across peak:52



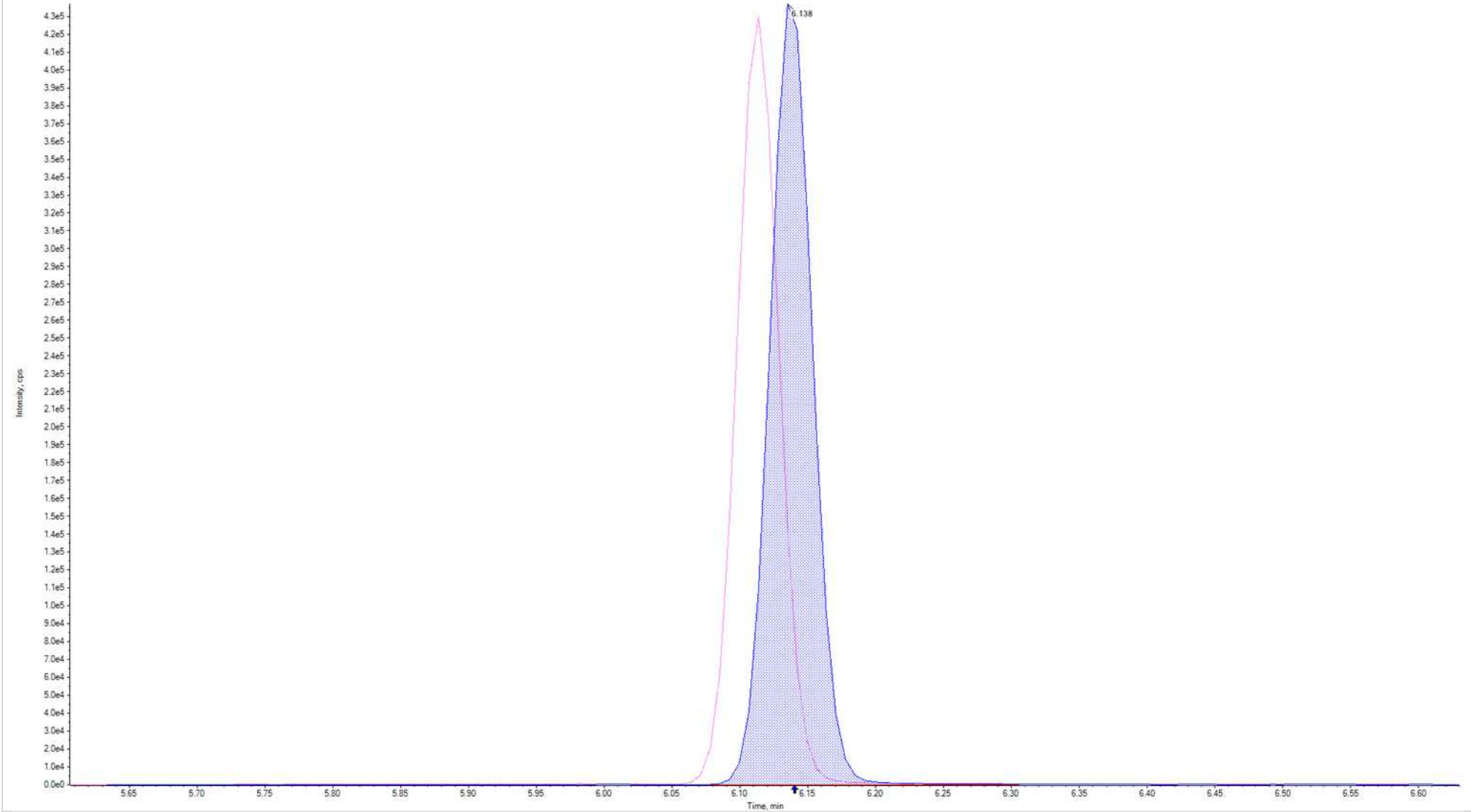
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NMeFOSE
Sample: CA1633STD-10 S/N:1339.8 Points Across peak:33



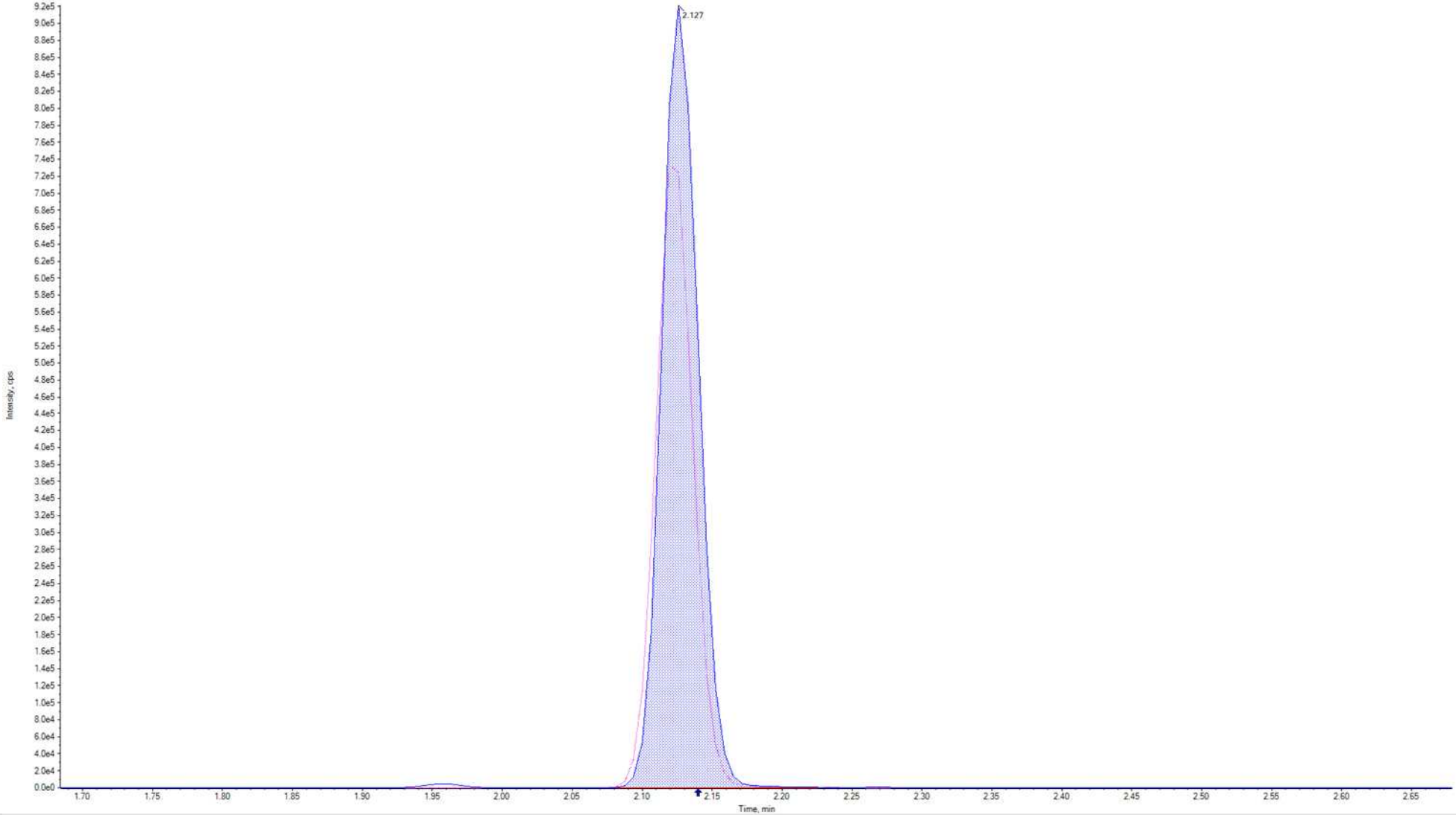
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NEtFOSE
Sample: CA1633STD-10 S/N:1979.1 Points Across peak:37



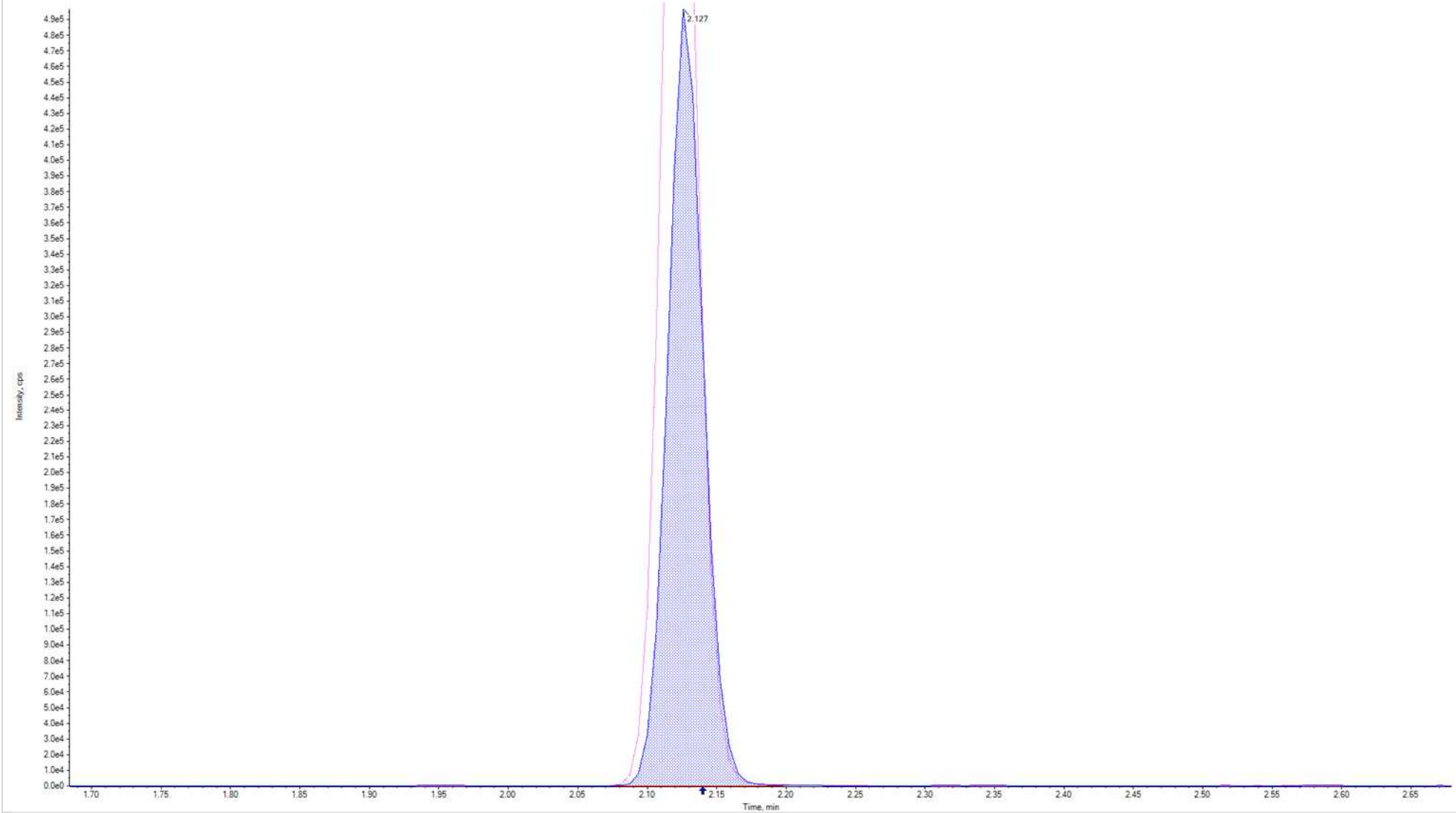
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

HFPO-DA
Sample: CA1633STD-10 S/N:20778.5 Points Across peak:26



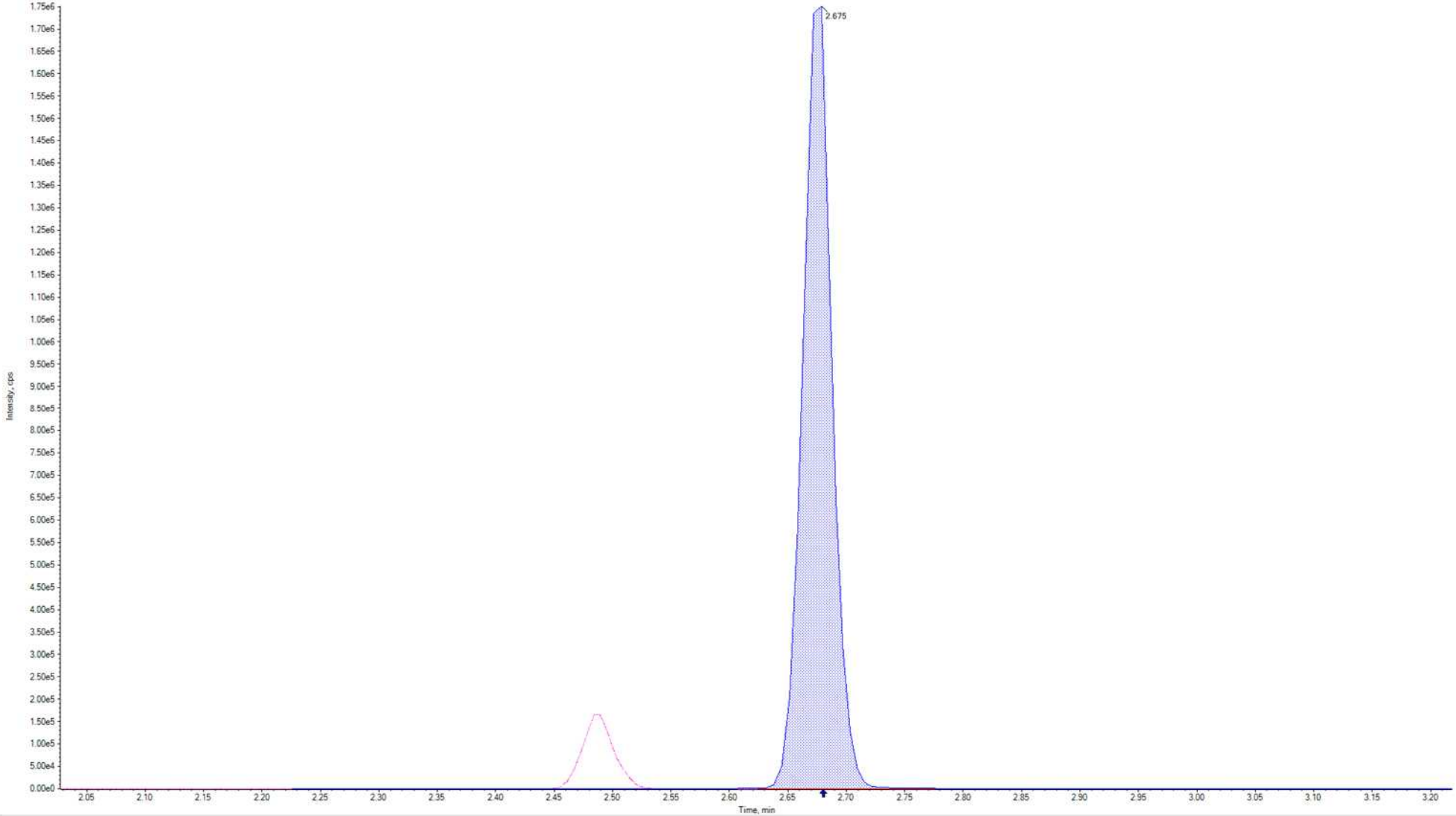
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

HFPO-DA_2
Sample: CA1633STD-10 S/N:11203.3 Points Across peak:24



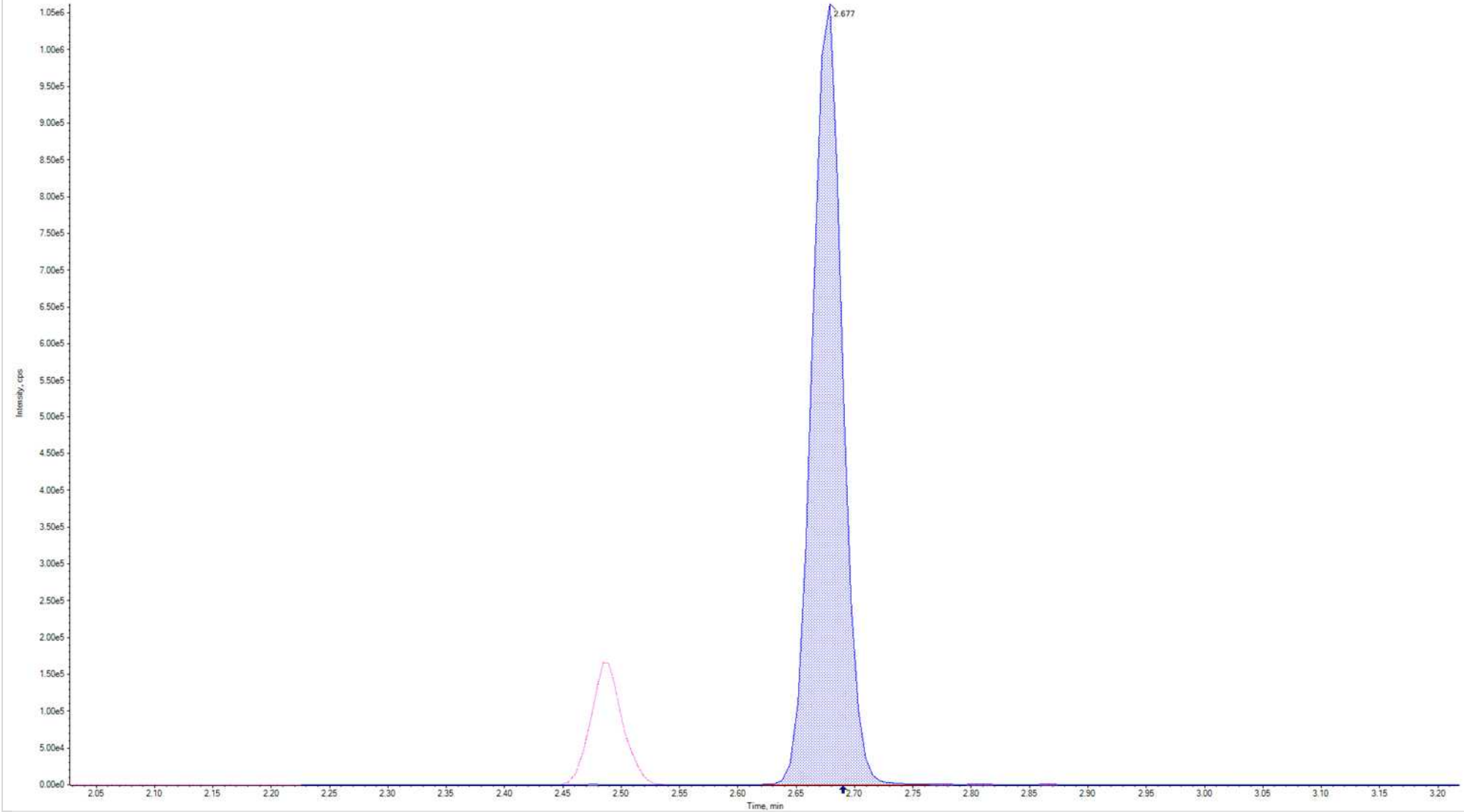
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

ADONA
Sample: CA1633STD-10 S/N:35109.1 Points Across peak:30



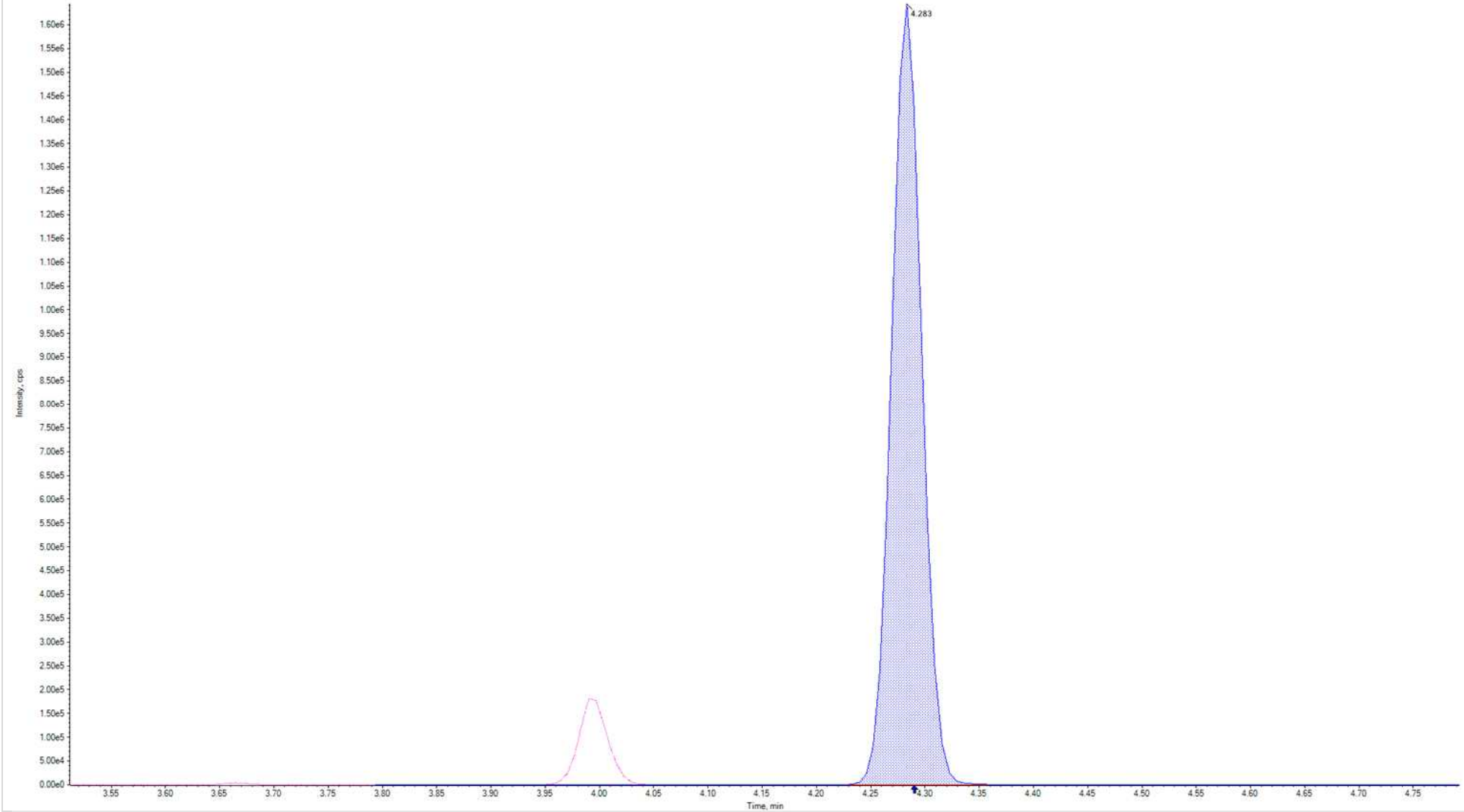
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

ADONA_2
Sample: CA1633STD-10 S/N:21295.4 Points Across peak:29



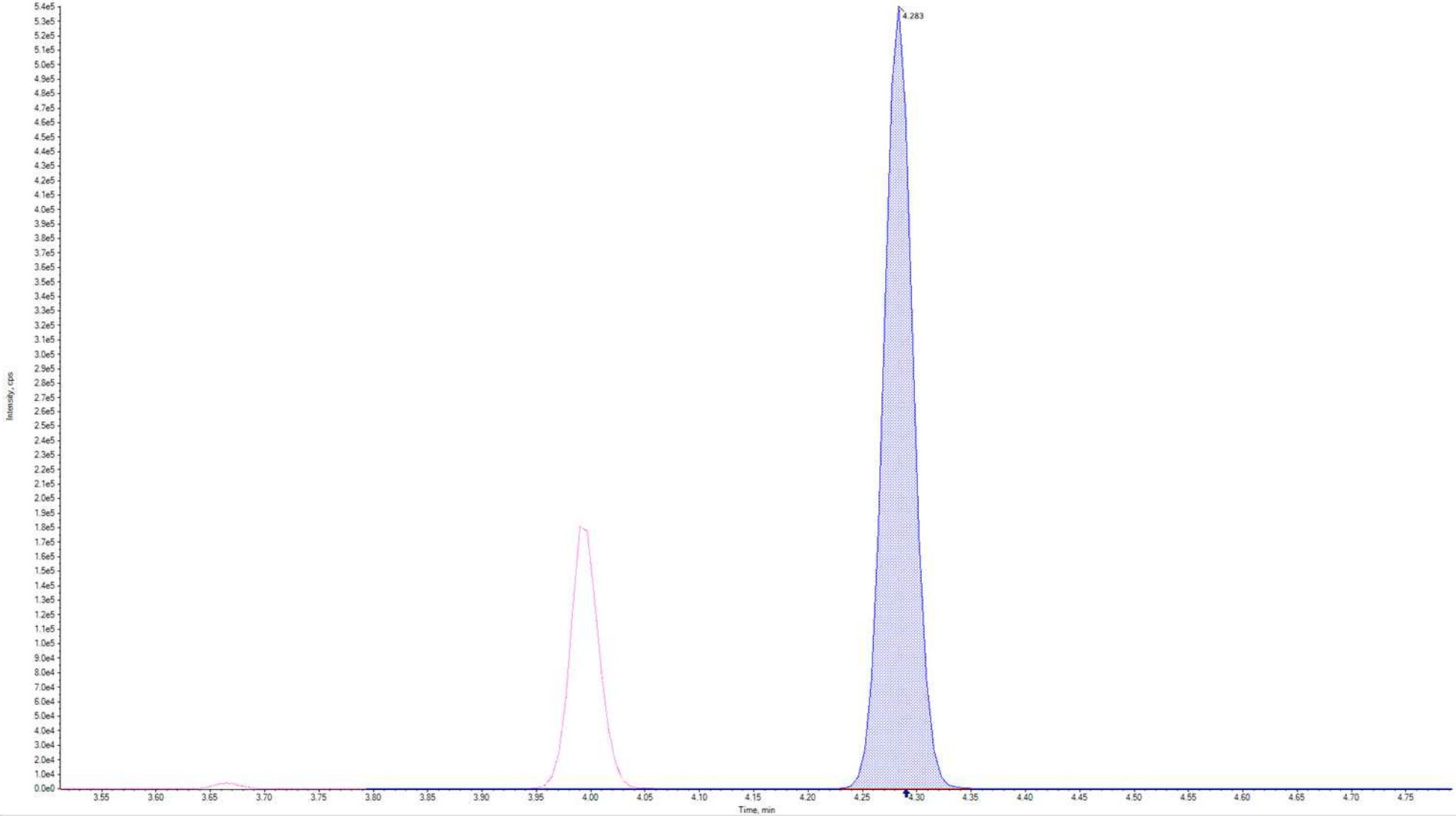
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

9Cl-PF3ONS
Sample: CA1633STD-10 S/N:37081.1 Points Across peak:26



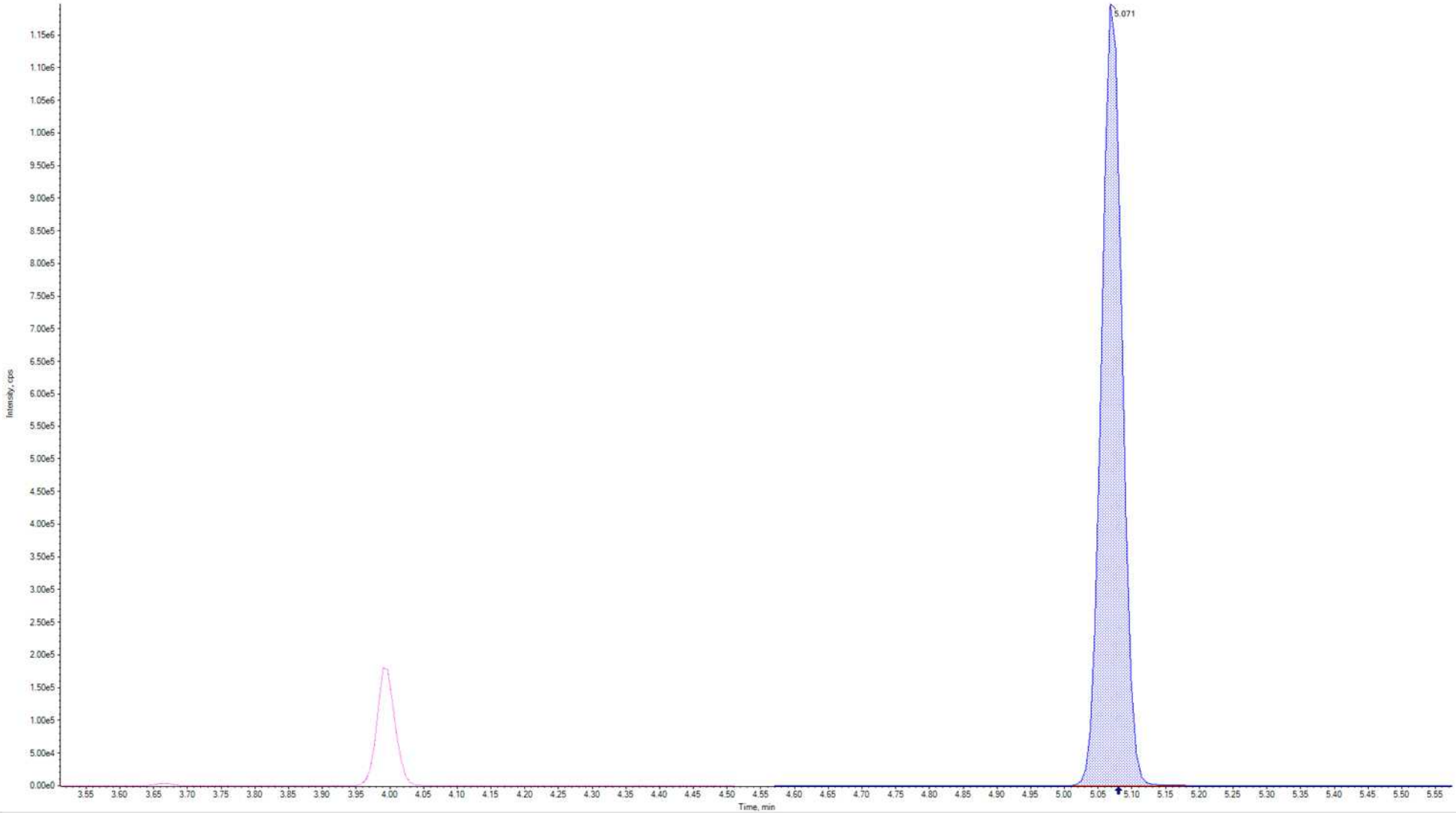
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

9Cl-PF3ONS_2
Sample: CA1633STD-10 S/N:5682.3 Points Across peak:26



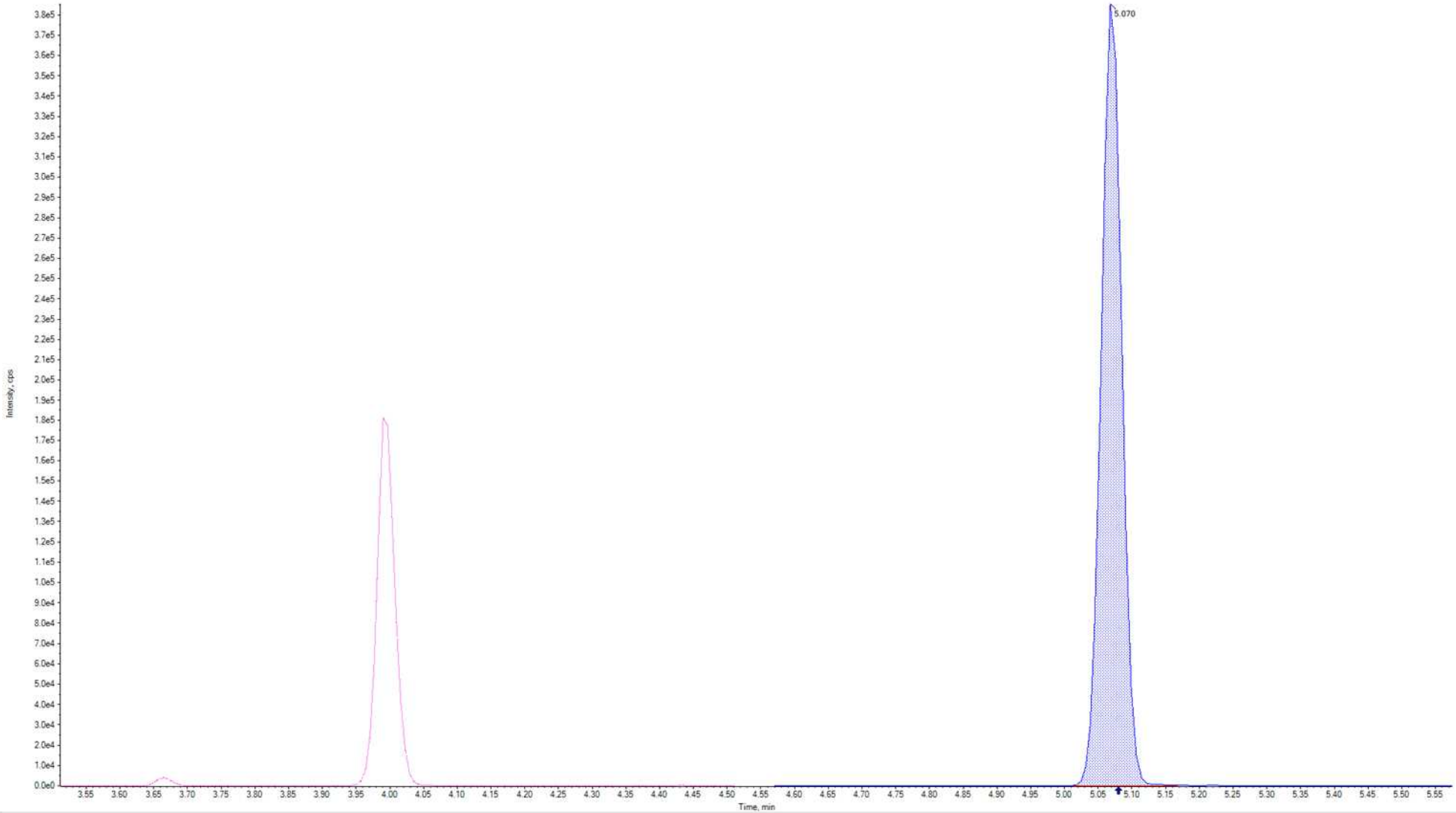
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

11Cl-PF3OUdS
Sample: CA1633STD-10 S/N:6989.9 Points Across peak:33



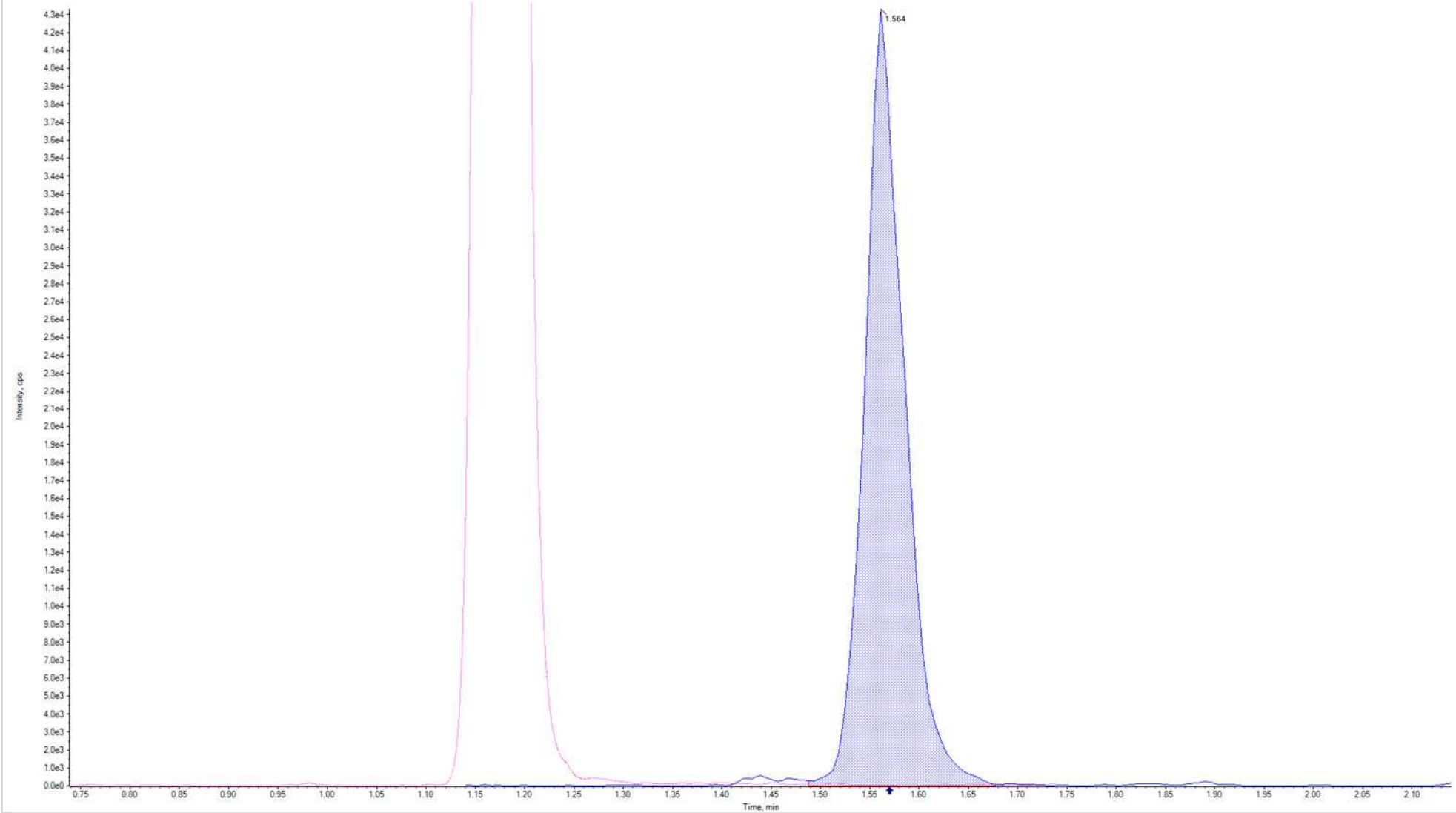
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

11Cl-PF3OUdS_2
Sample: CA1633STD-10 S/N:18353.7 Points Across peak:26



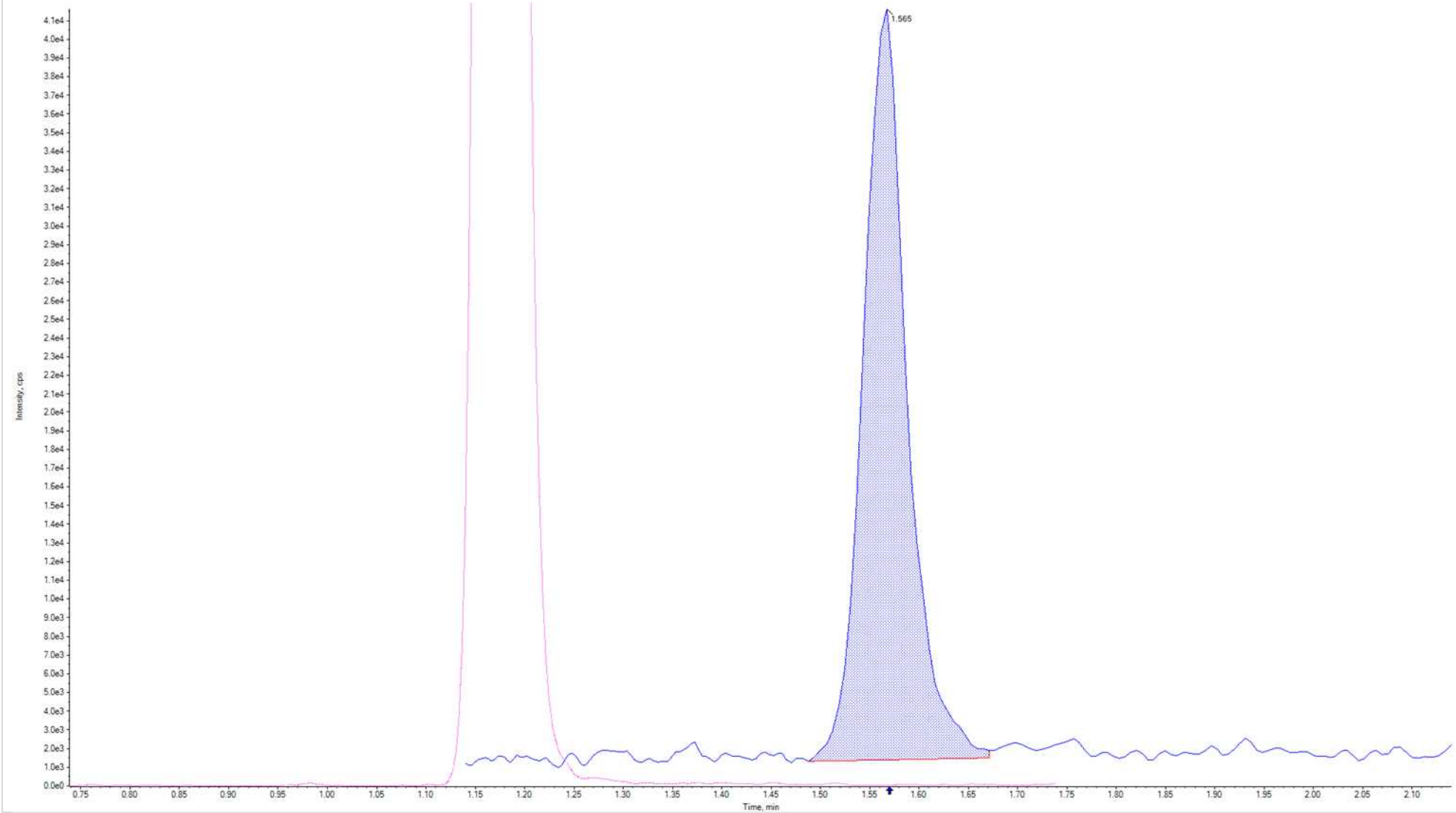
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

3:3FTCA
Sample: CA1633STD-10 S/N:1085.2 Points Across peak:32



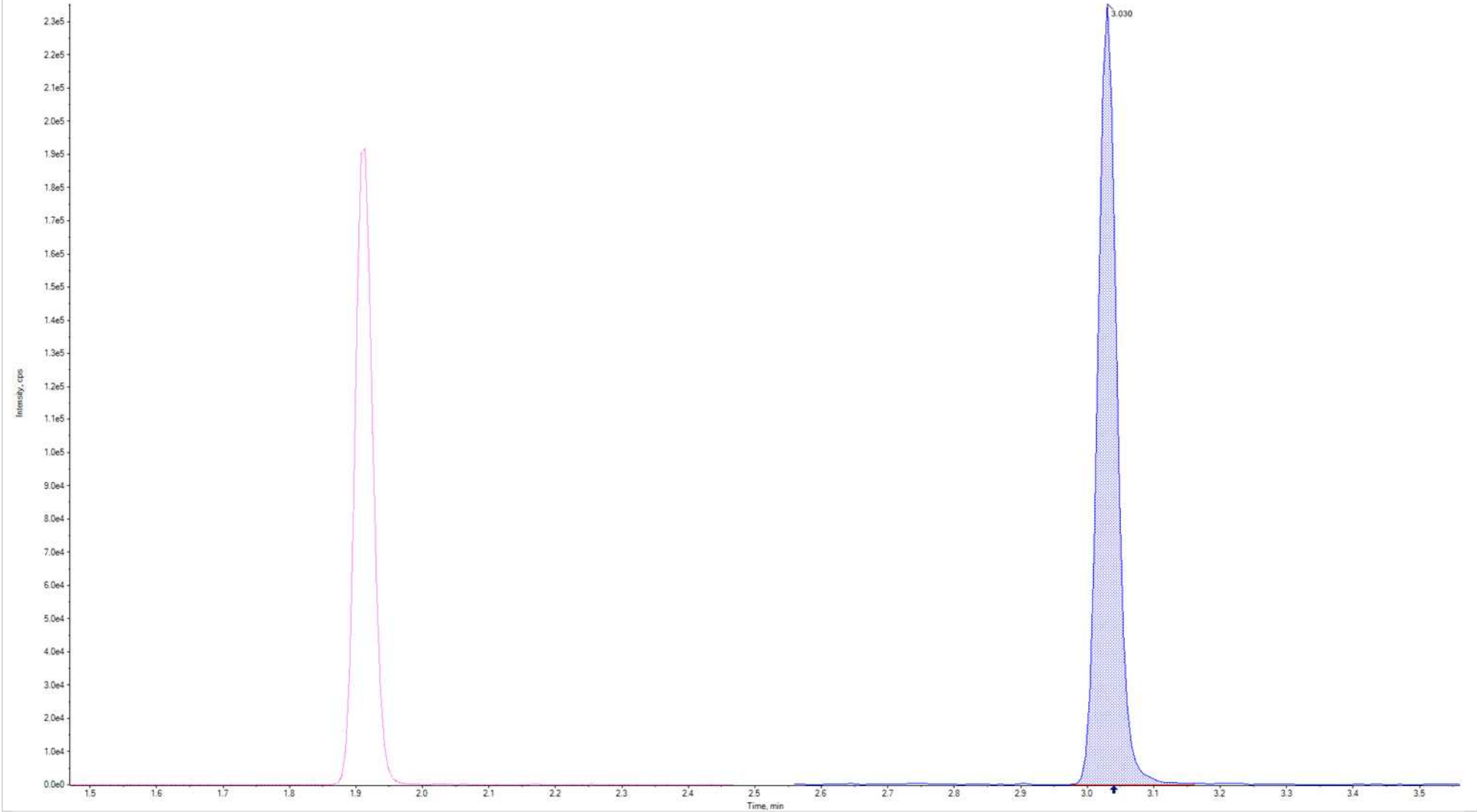
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

3:3FTCA_2
Sample: CA1633STD-10 S/N:320.1 Points Across peak:31



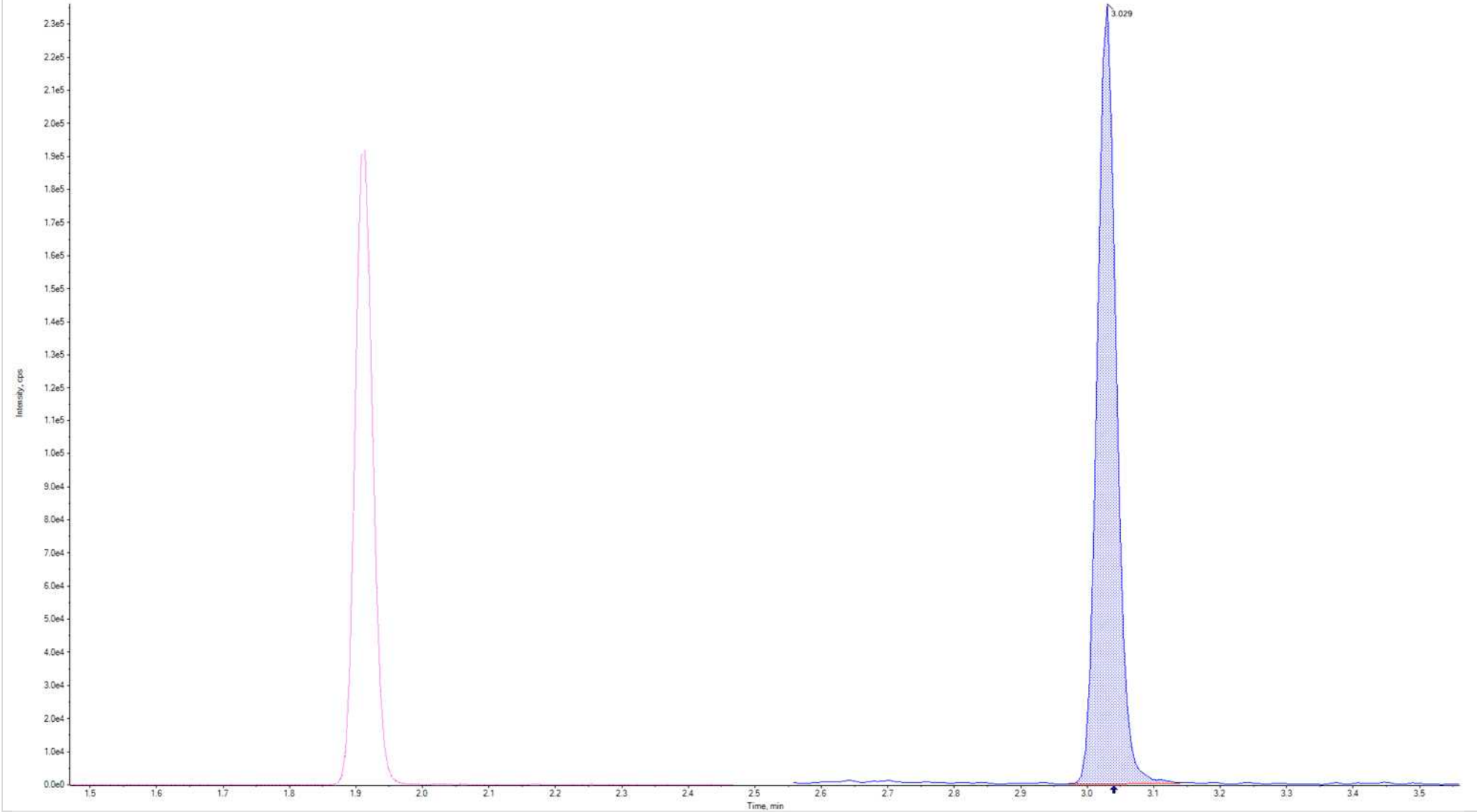
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

5:3FTCA
Sample: CA1633STD-10 S/N:5307.5 Points Across peak:33



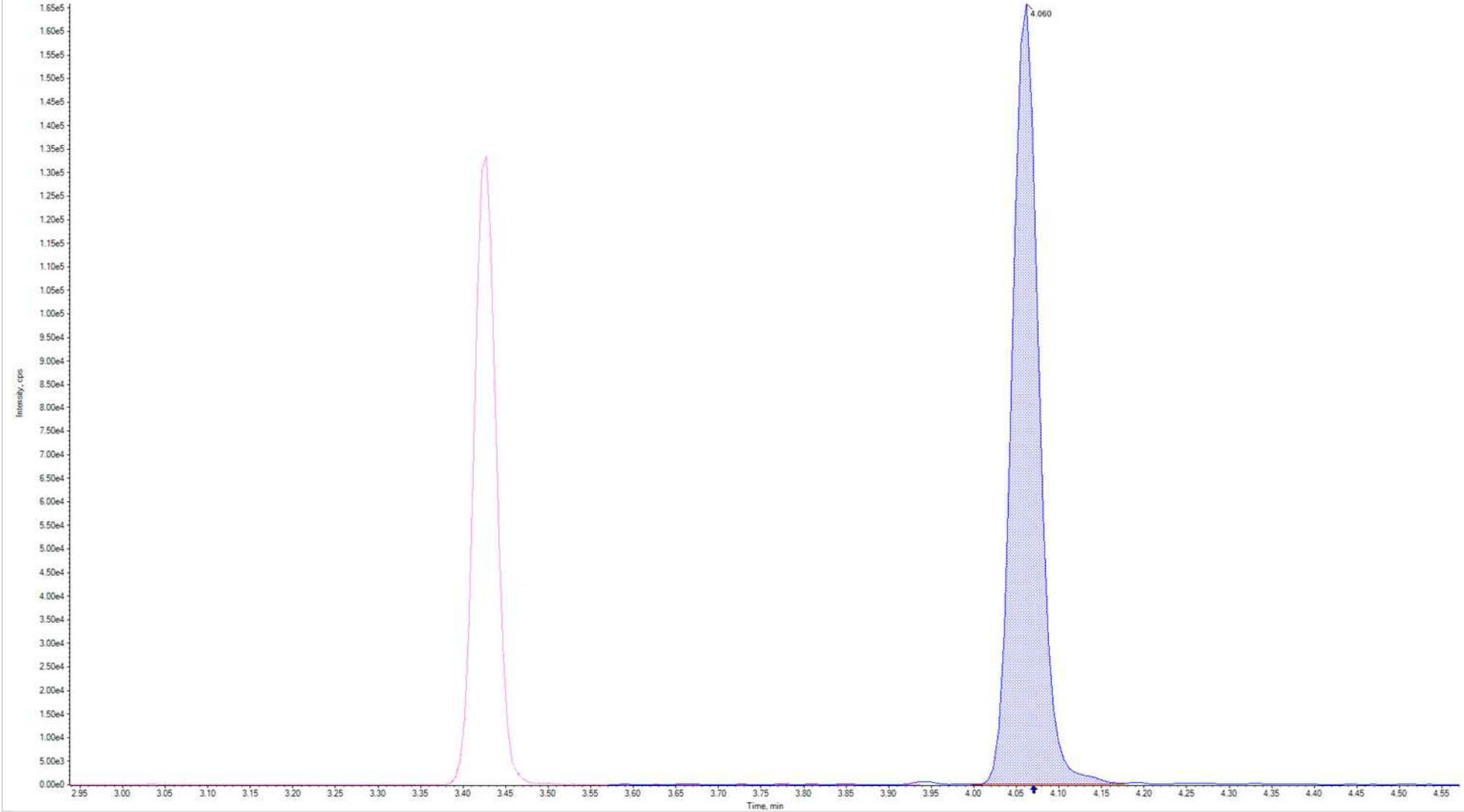
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

5:3FTCA_2
Sample: CA1633STD-10 S/N:2205.5 Points Across peak:30



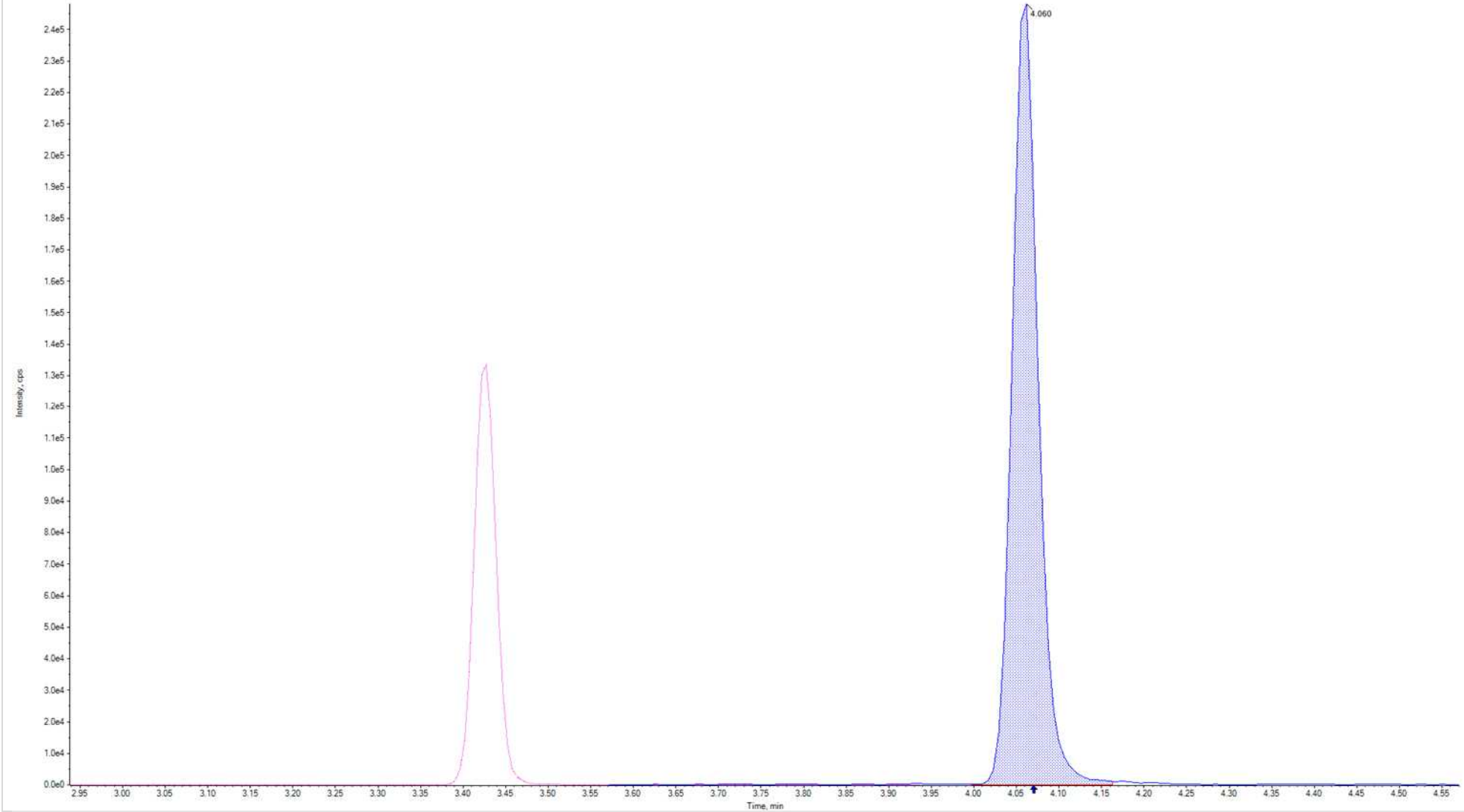
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

7:3FTCA
Sample: CA1633STD-10 S/N:4570.3 Points Across peak:29



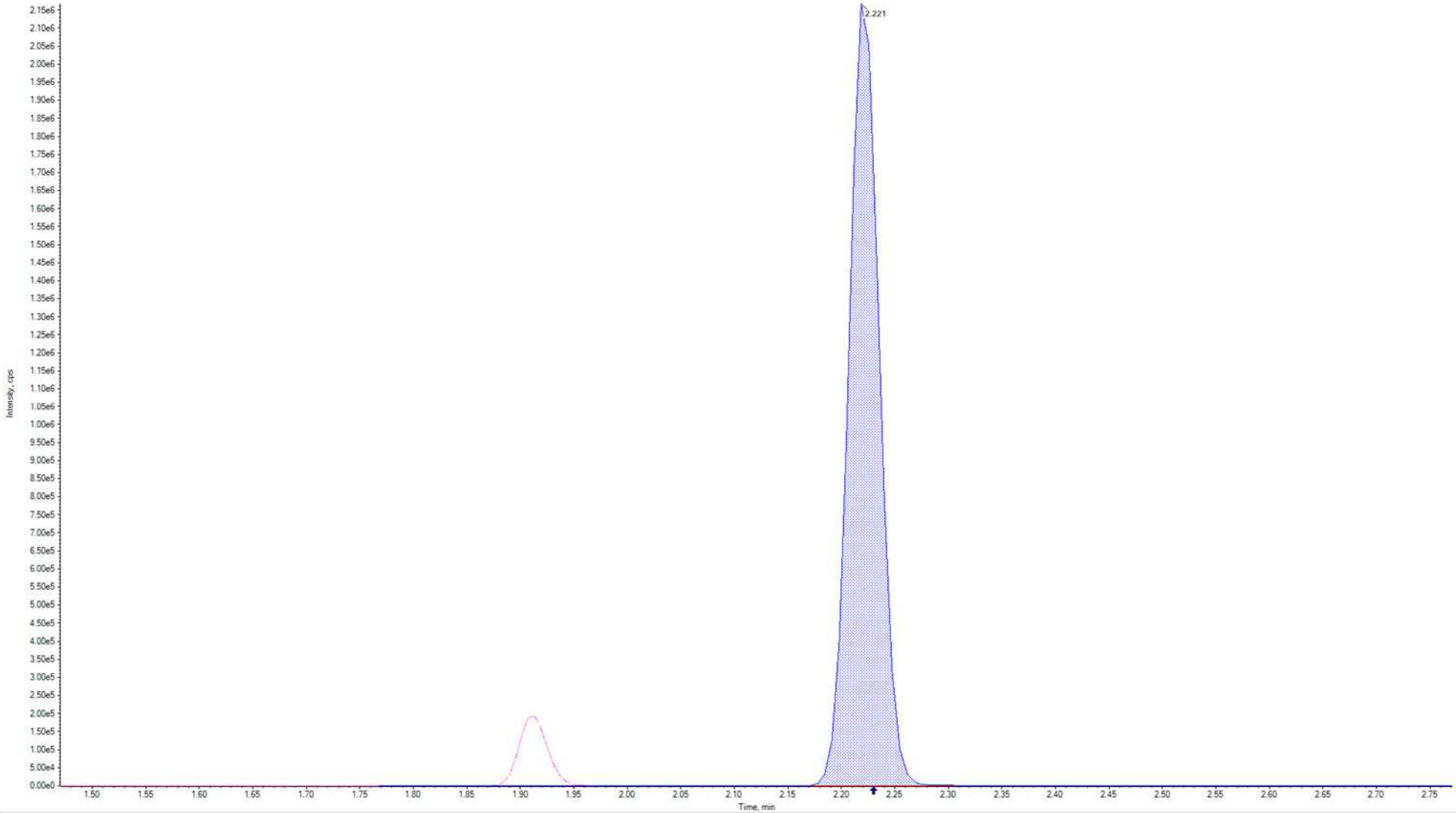
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

7:3FTCA_2
Sample: CA1633STD-10 S/N:4746.5 Points Across peak:30



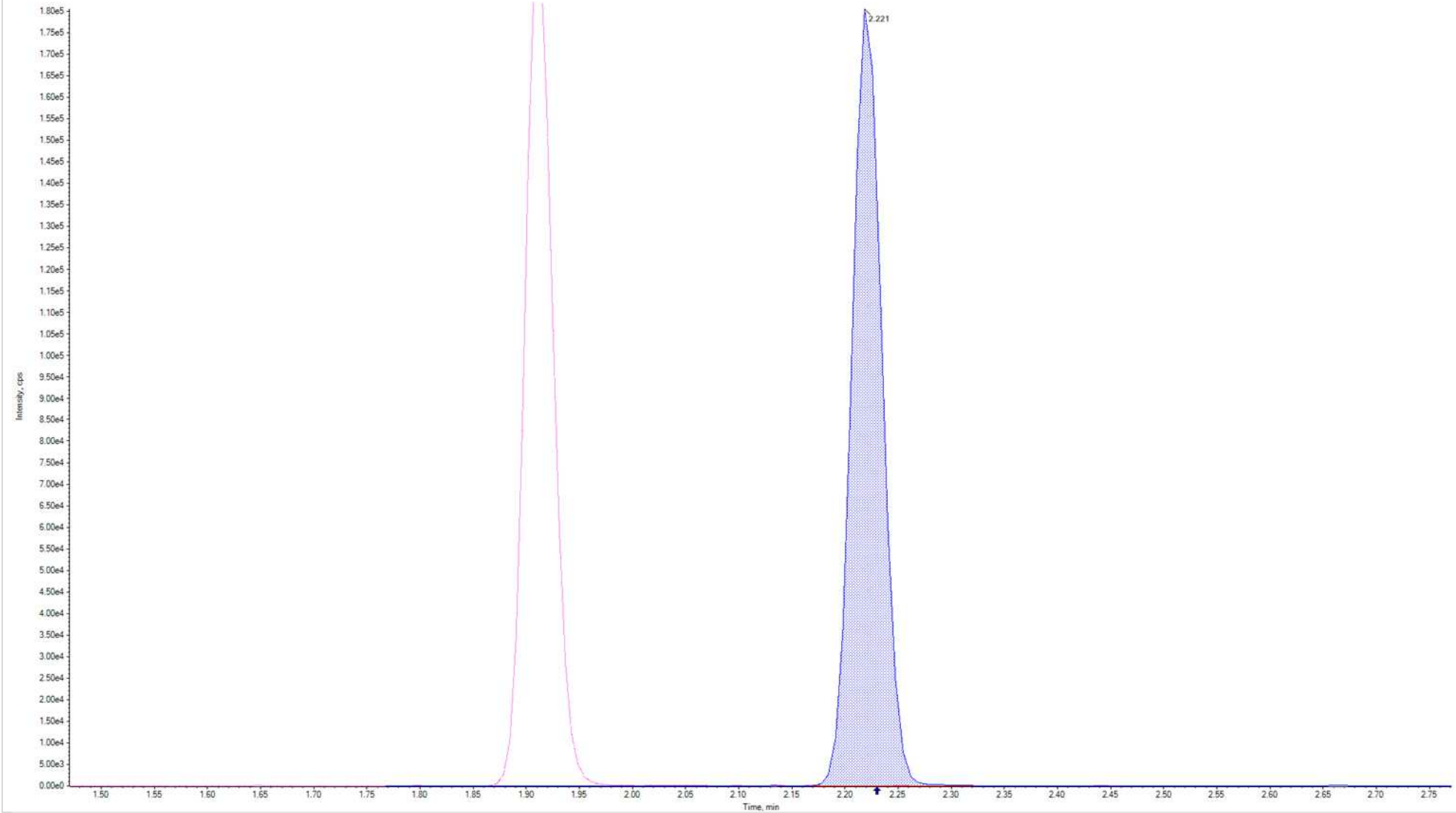
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFEESA
Sample: CA1633STD-10 S/N:48888.4 Points Across peak:33



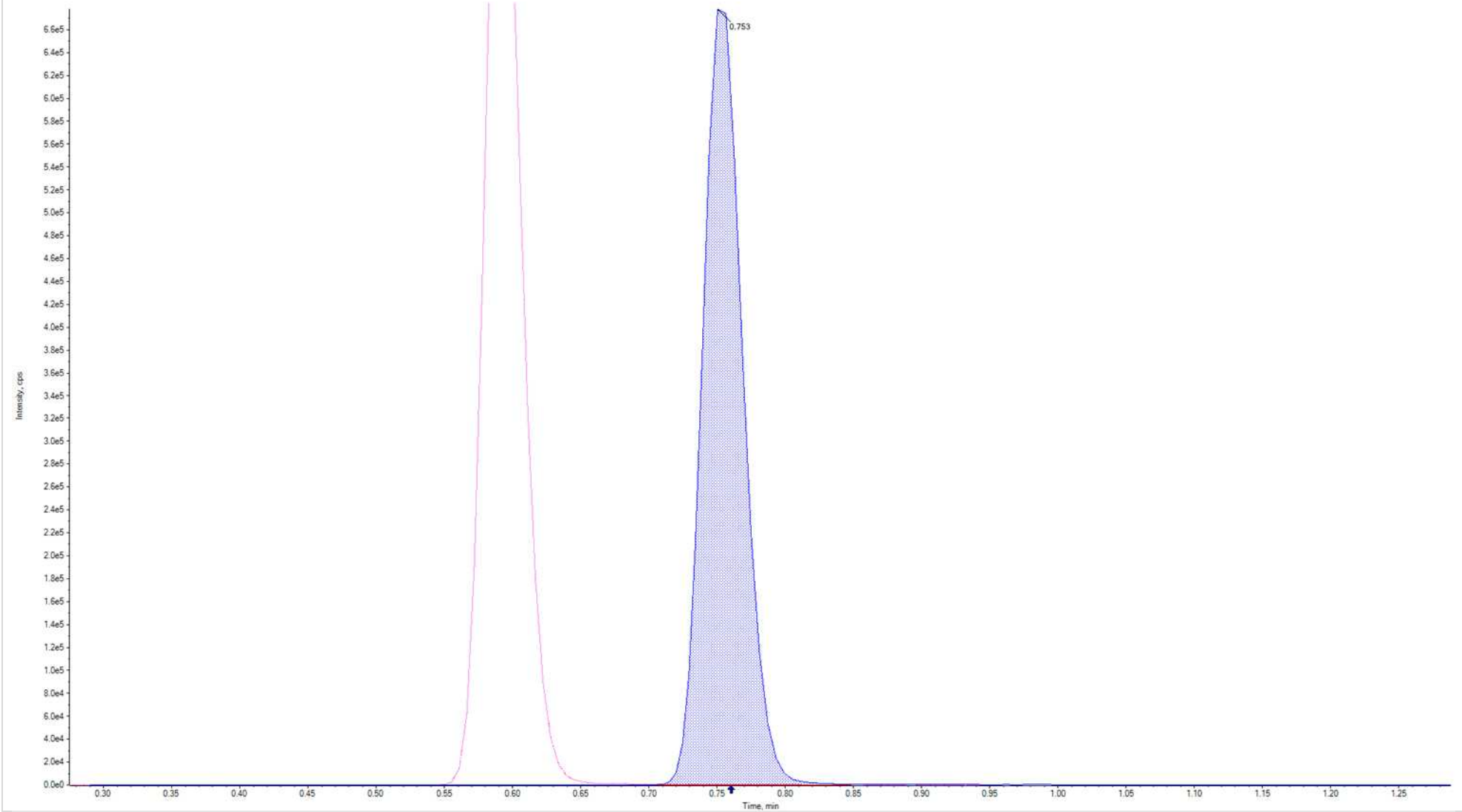
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFEESA_2
Sample: CA1633STD-10 S/N:3456.0 Points Across peak:27



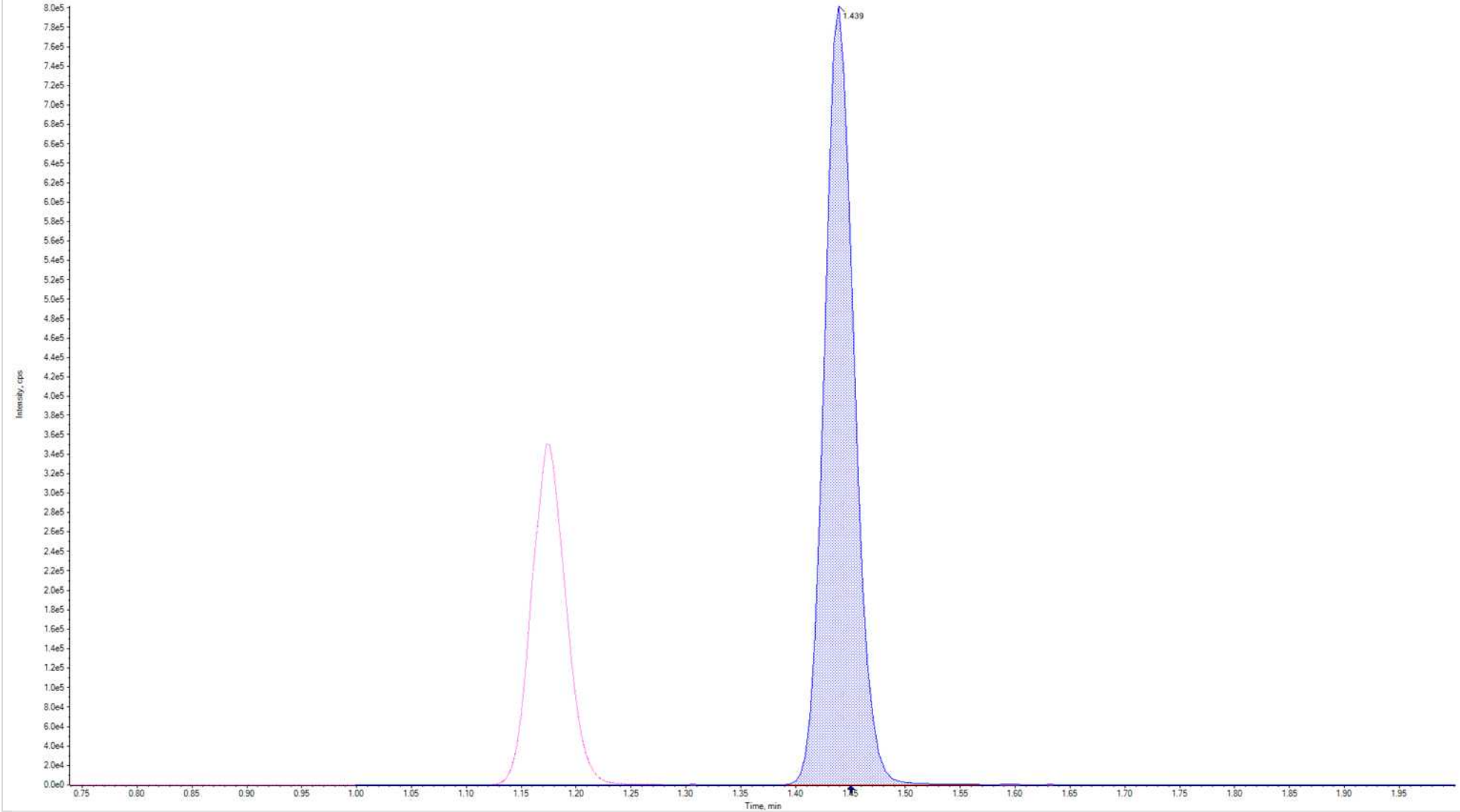
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFMPA
Sample: CA1633STD-10 S/N:14352.2 Points Across peak:28



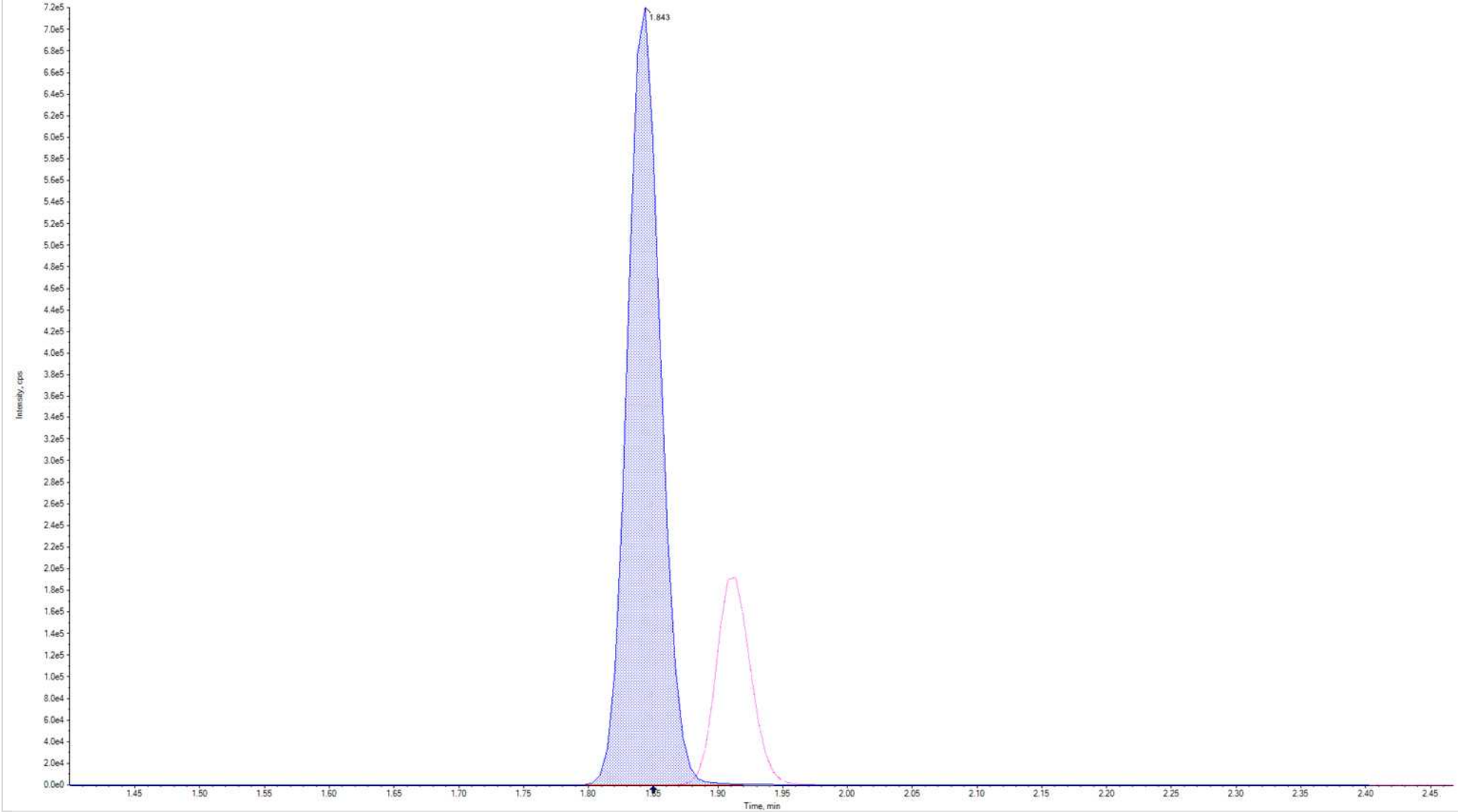
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFMBA
Sample: CA1633STD-10 S/N:17727.6 Points Across peak:38



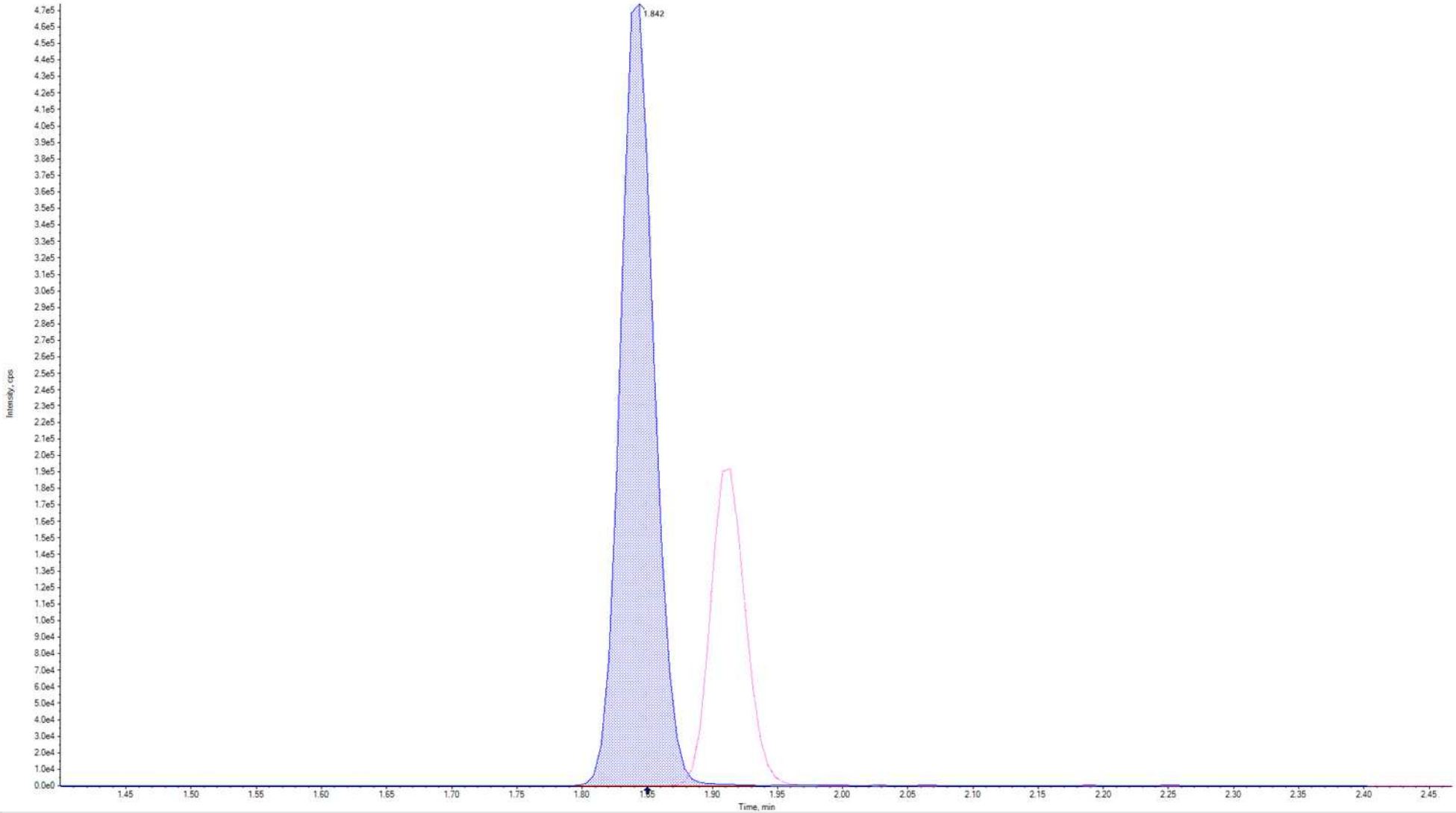
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NFDHA
Sample: CA1633STD-10 S/N:19854.6 Points Across peak:27



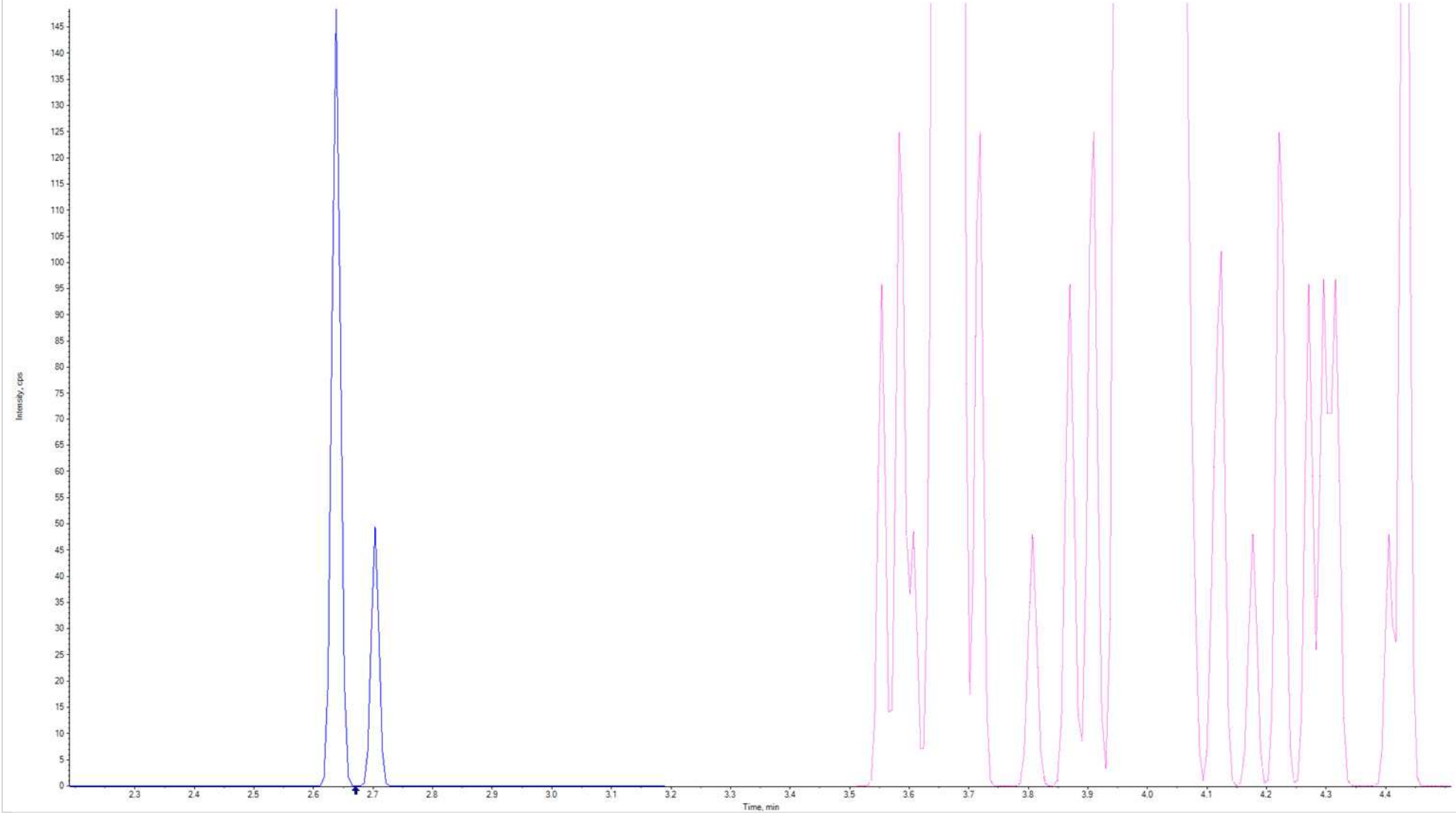
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NFDHA_2
Sample: CA1633STD-10 S/N:13067.3 Points Across peak:27



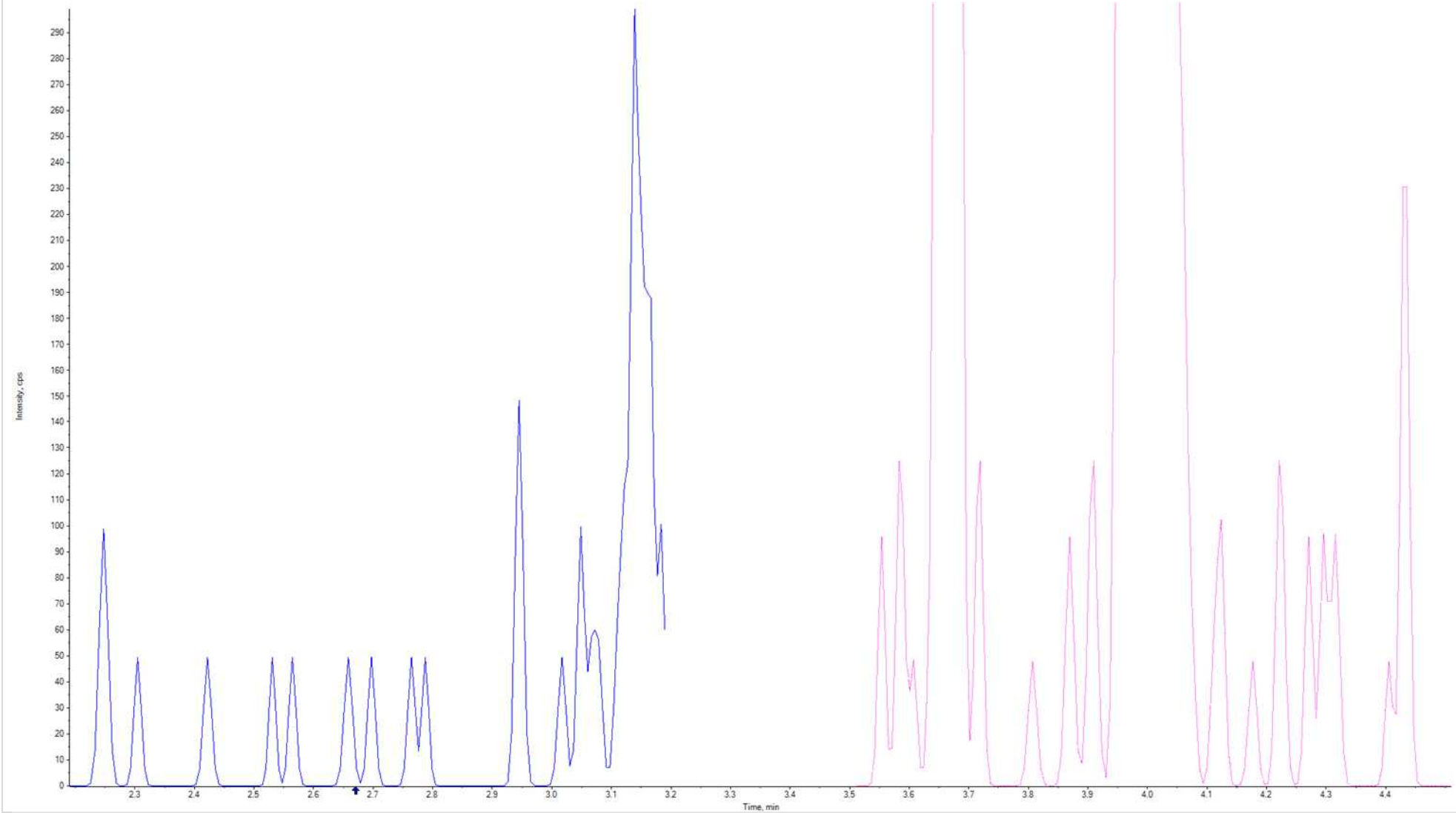
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

TDCA
Sample: CA1633STD-10 S/N:N/A Points Across peak:N/A



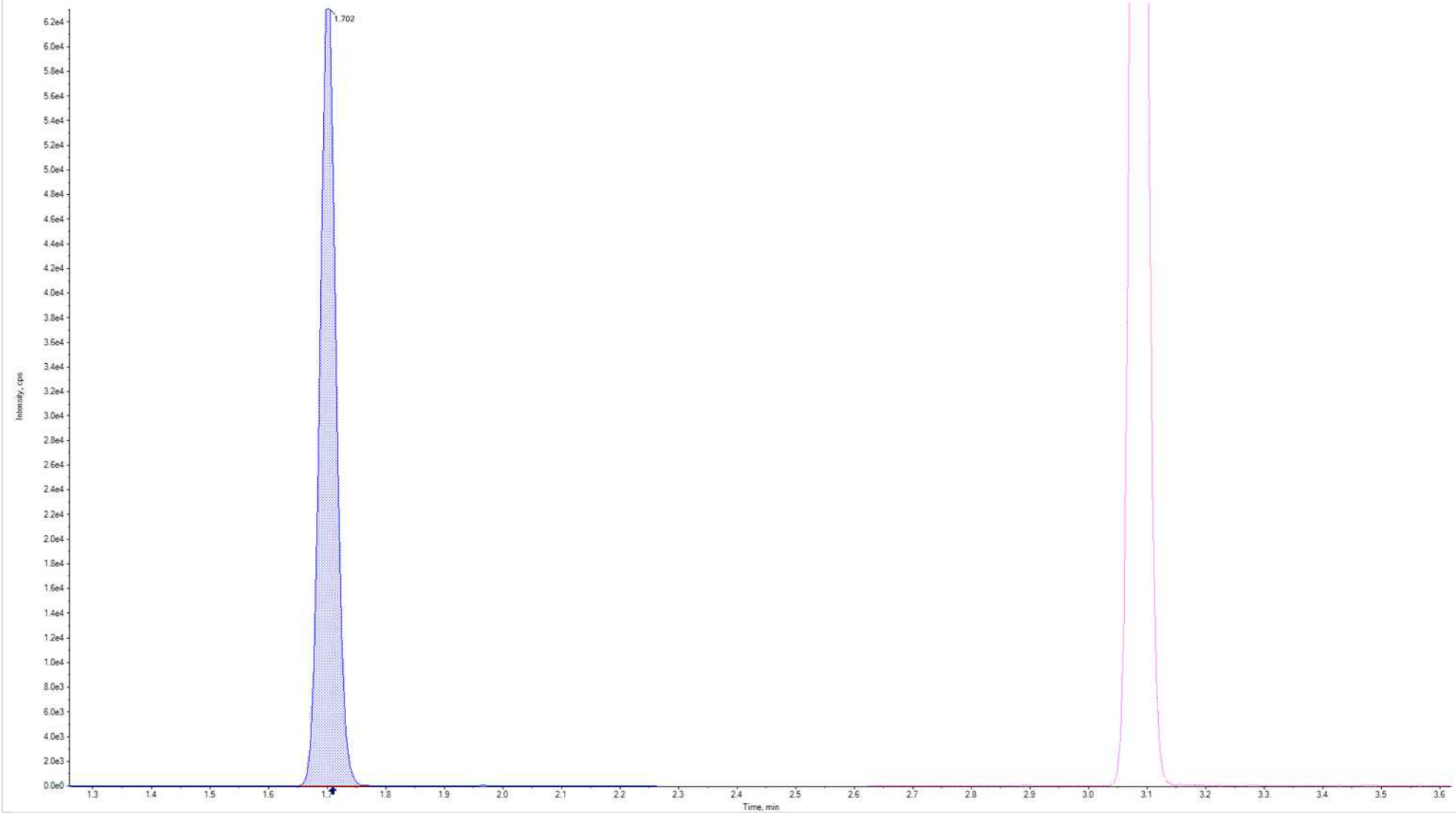
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

TDCA_2
Sample: CA1633STD-10 S/N:N/A Points Across peak:N/A



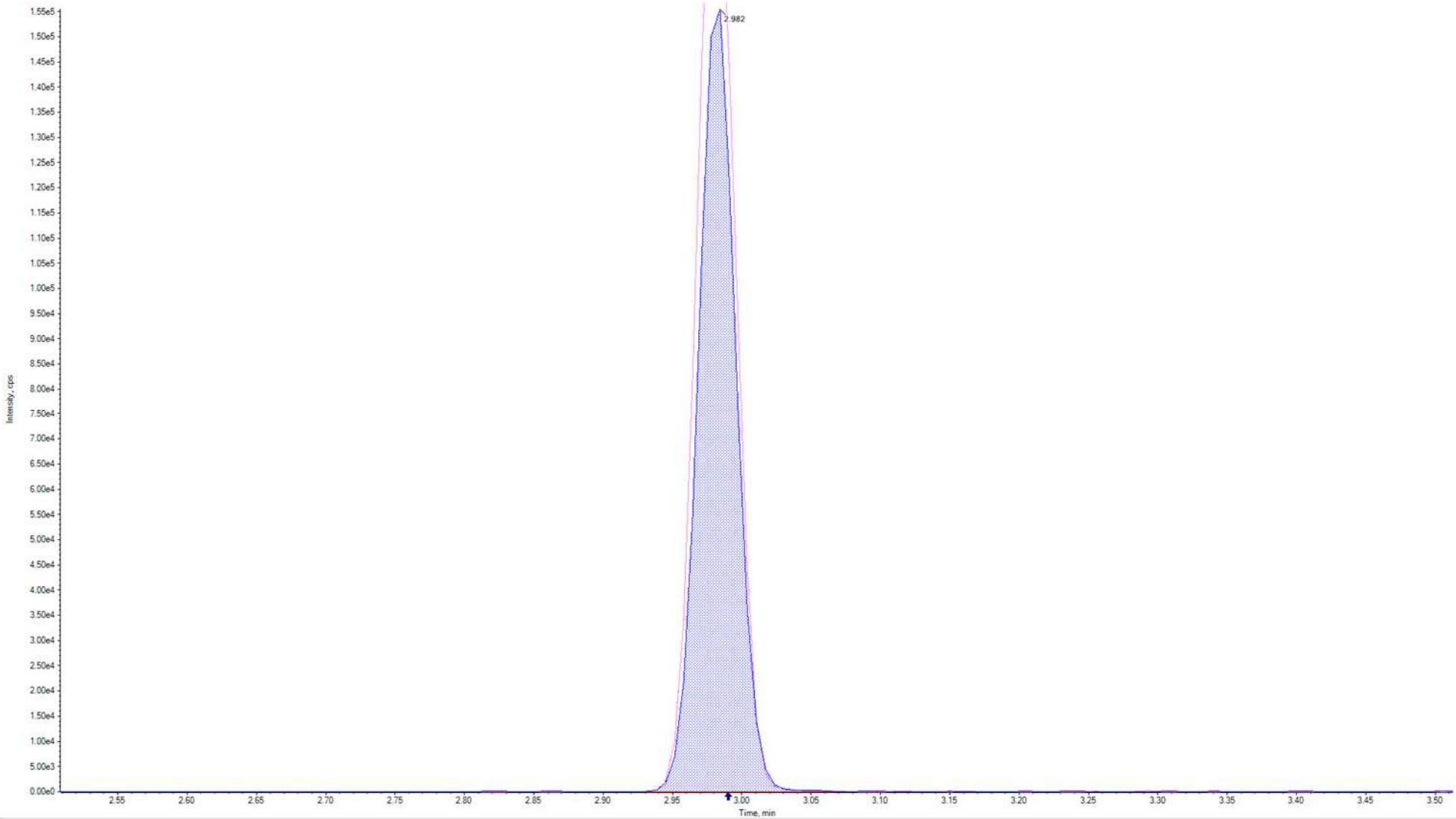
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

13C2D4-4:2FTS
Sample: CA1633STD-10 S/N:2370.7 Points Across peak:31

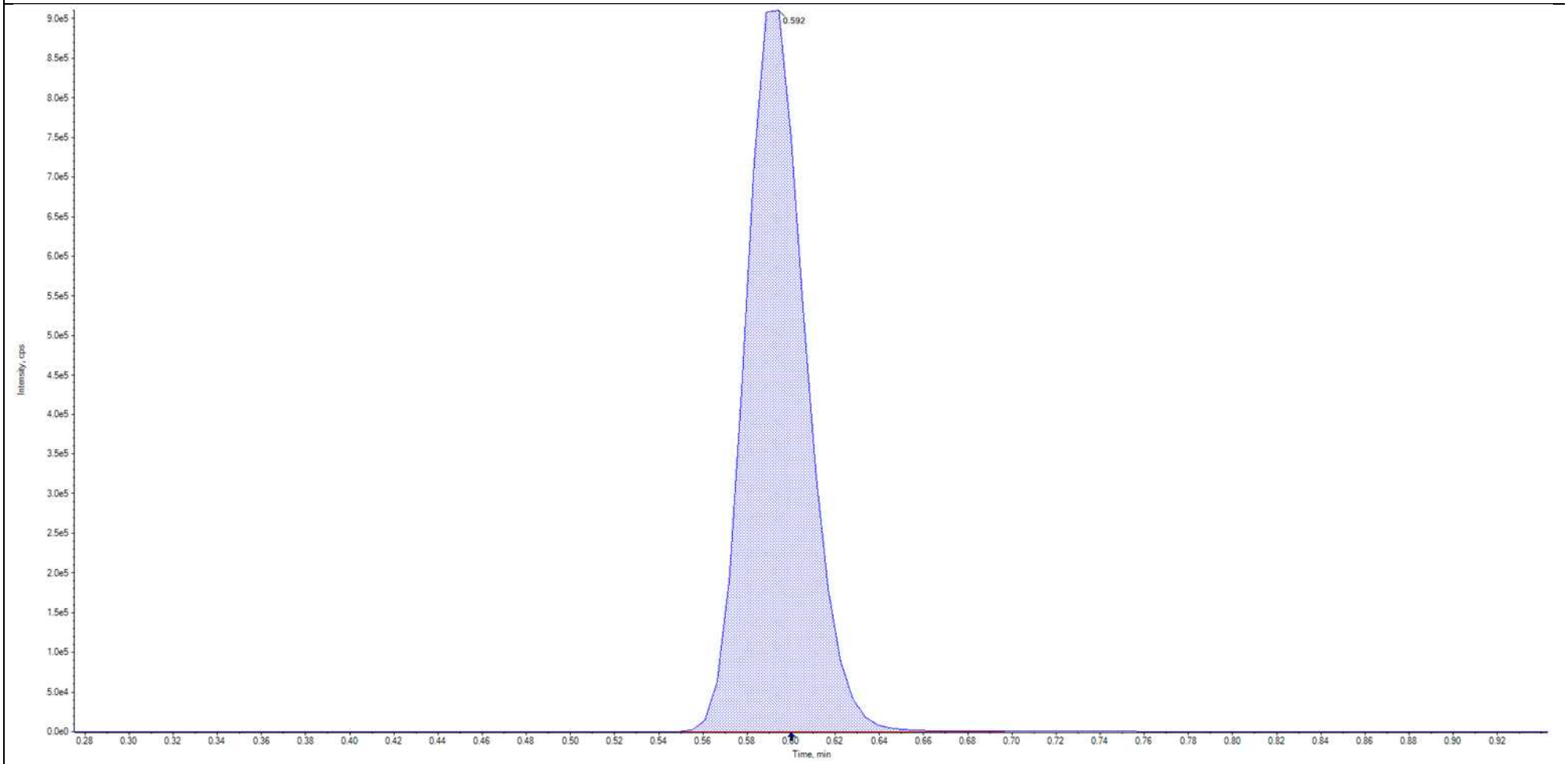


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

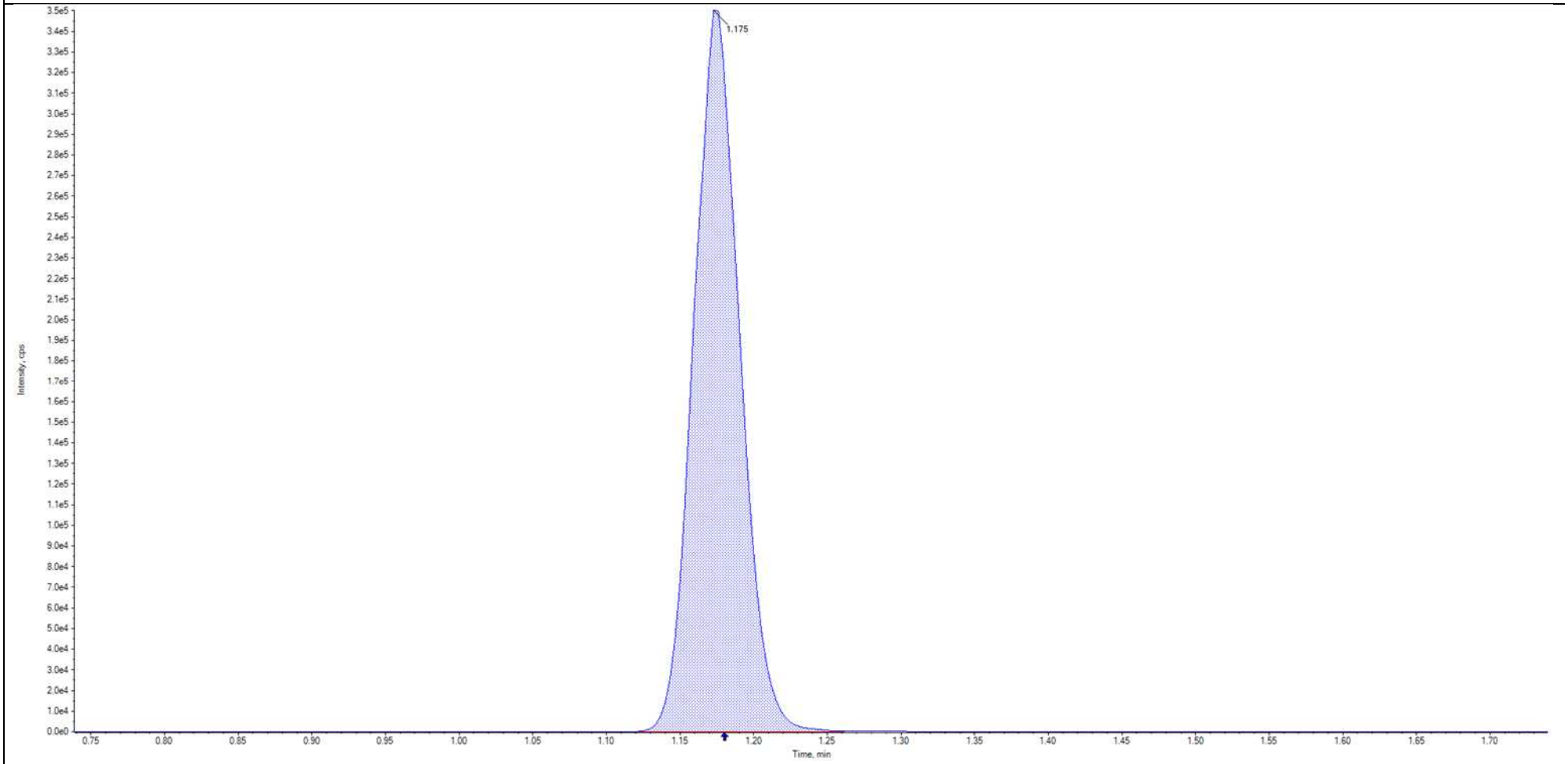
13C2-PFOA
Sample: CA1633STD-10 S/N:3507.5 Points Across peak:29



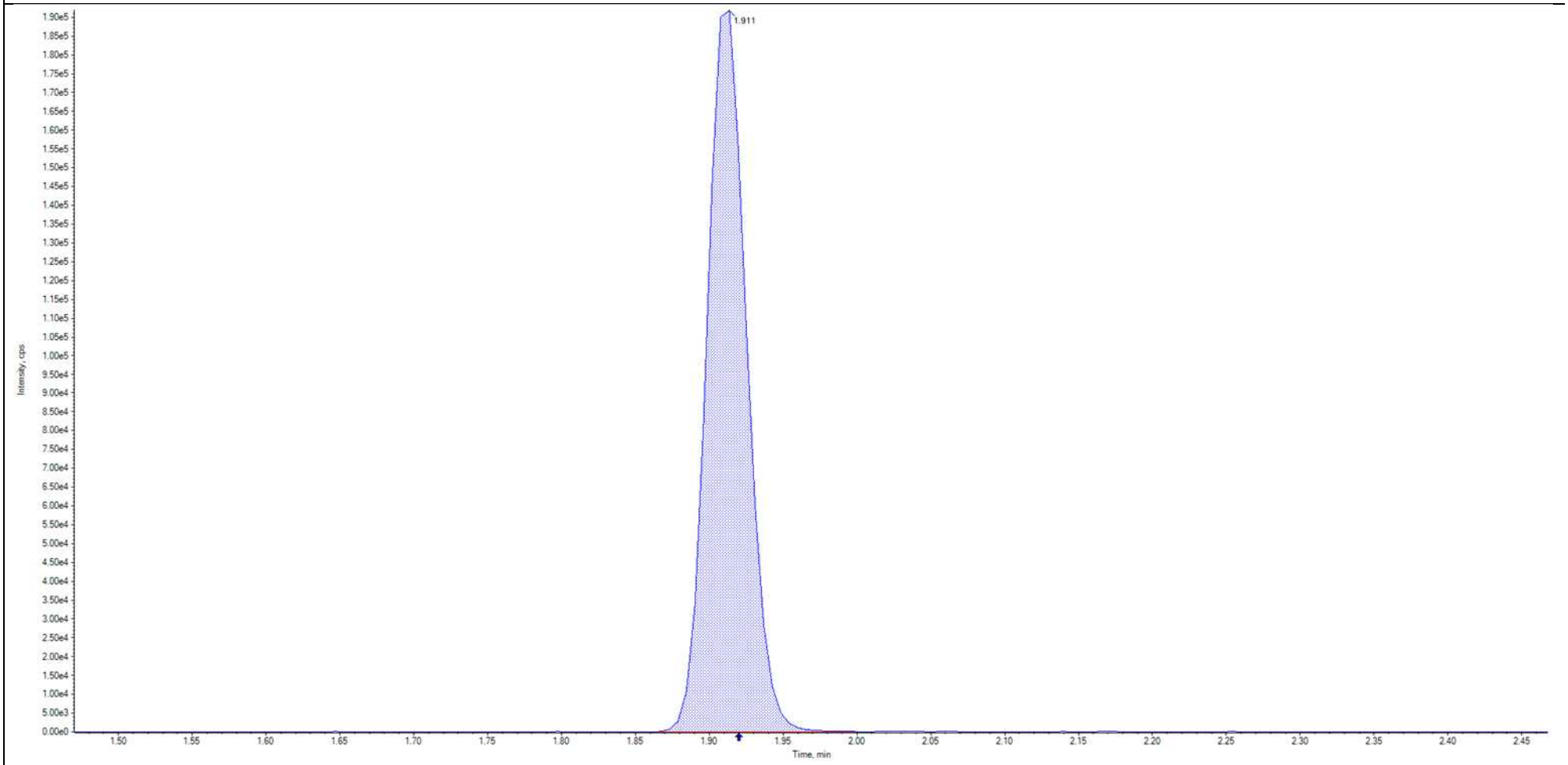
13C4-PFBA
Sample: CA1633STD-10



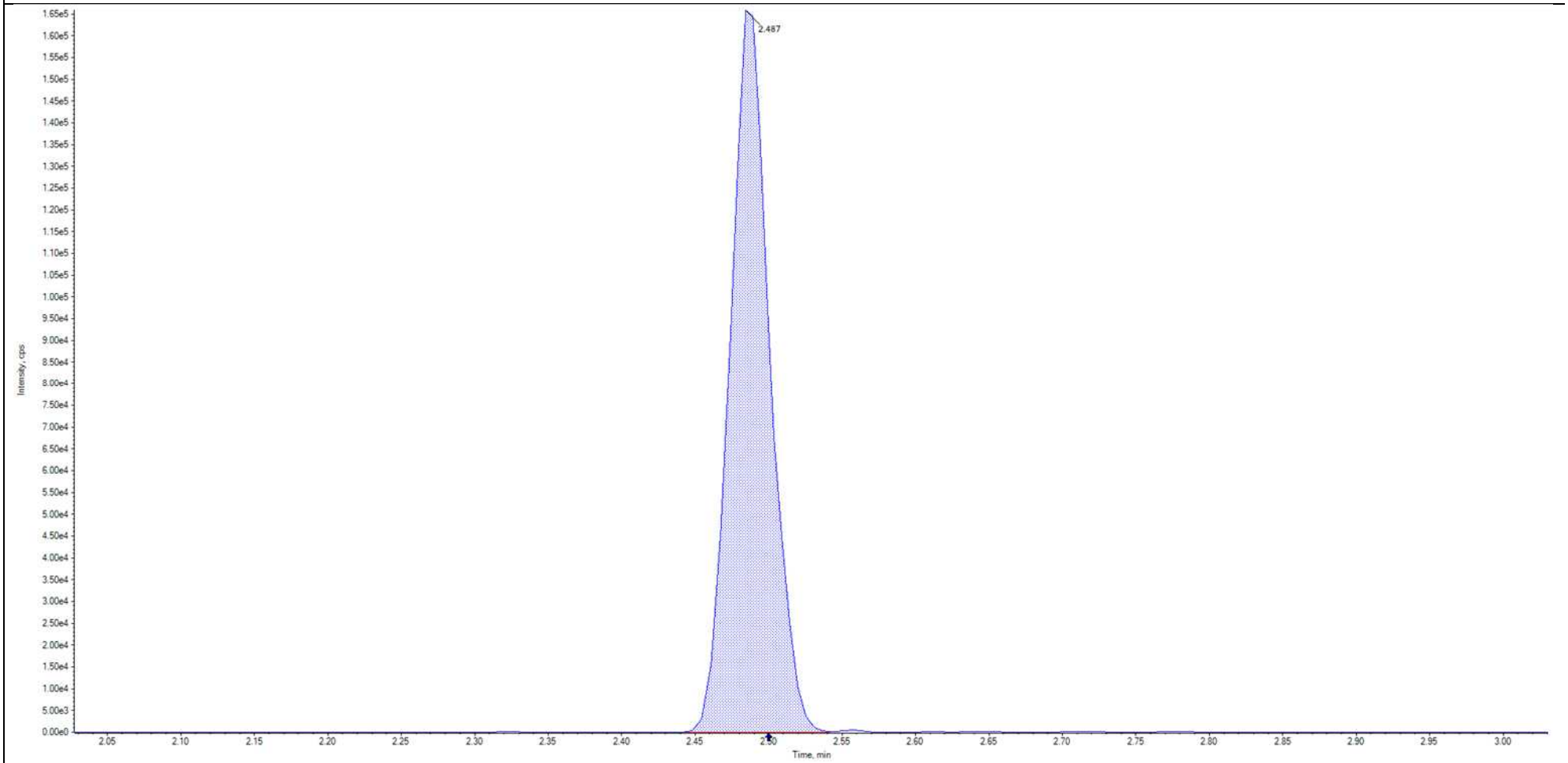
13C5-PFPeA
Sample: CA1633STD-10



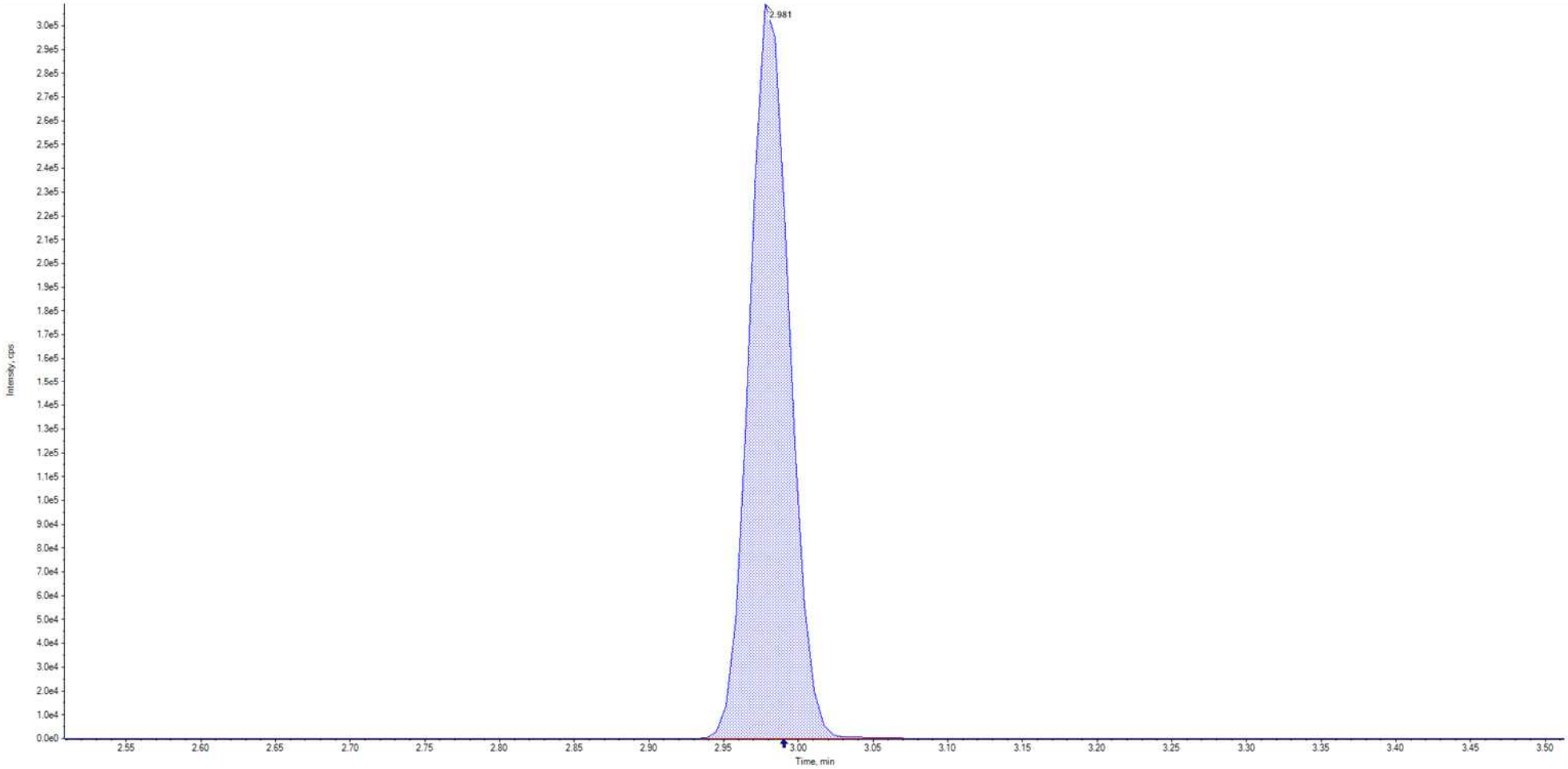
13C5-PFHxA
Sample: CA1633STD-10



13C4-PFHpA
Sample: CA1633STD-10

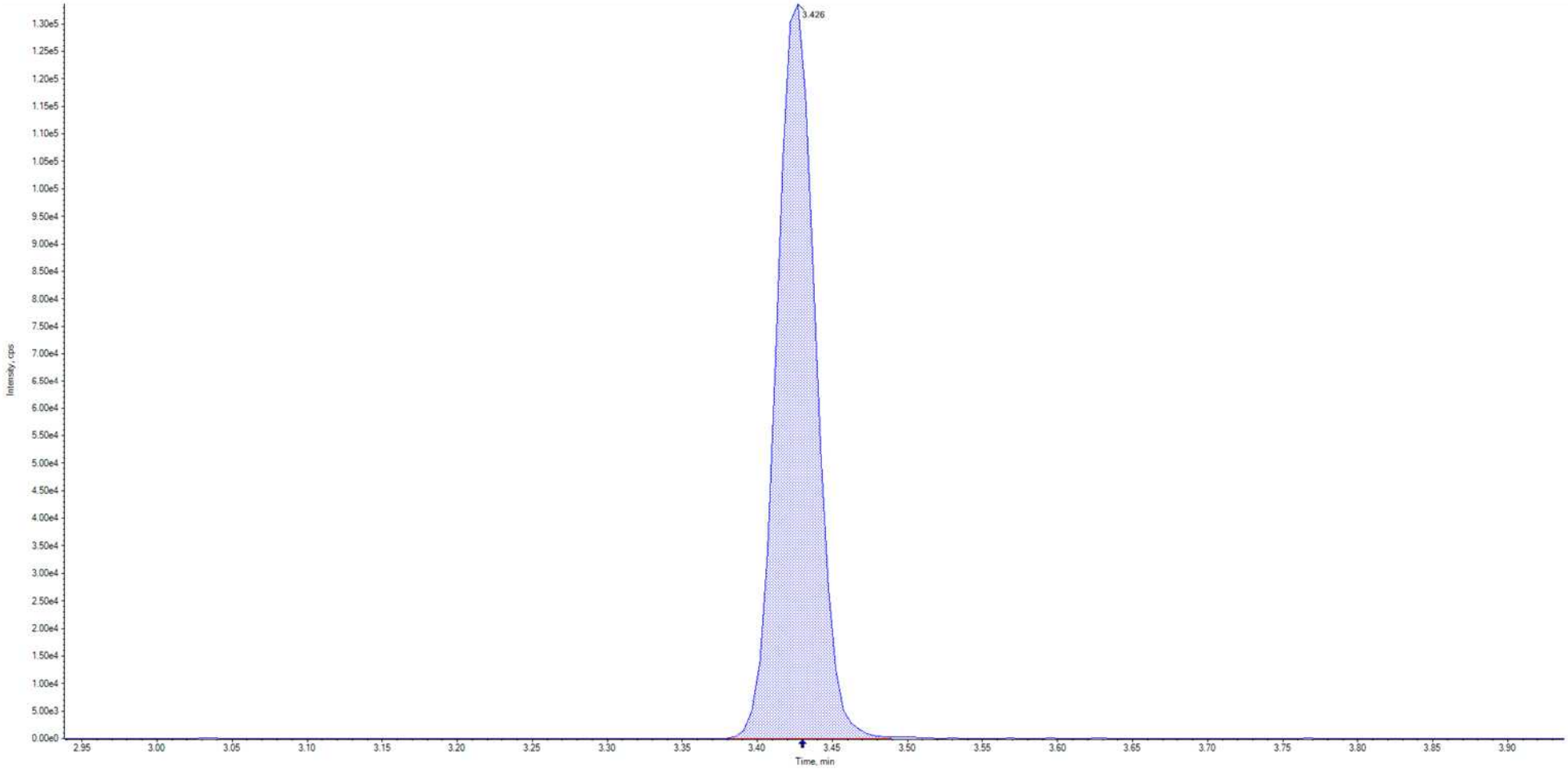


13C8-PFOA
Sample: CA1633STD-10

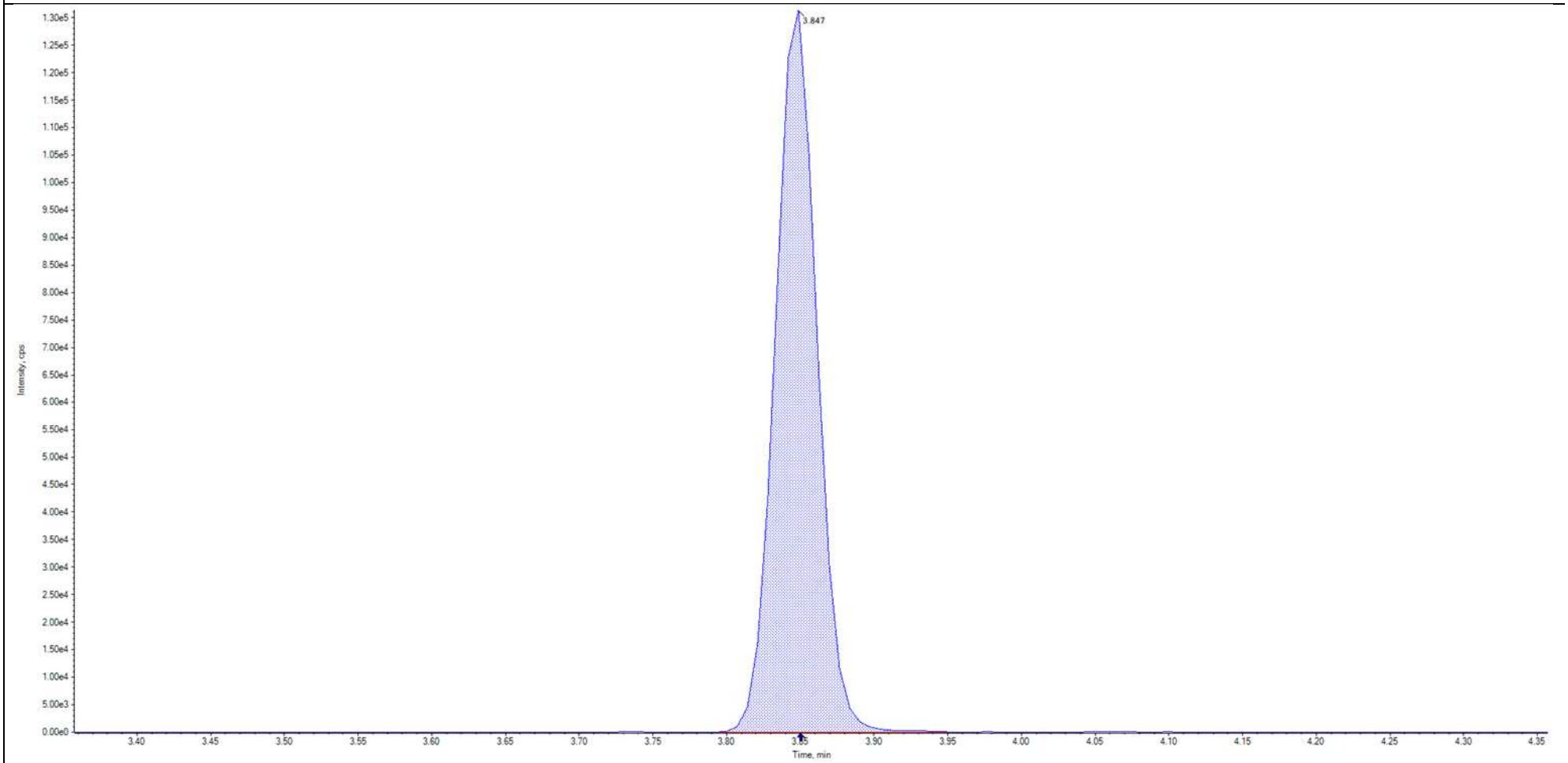


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

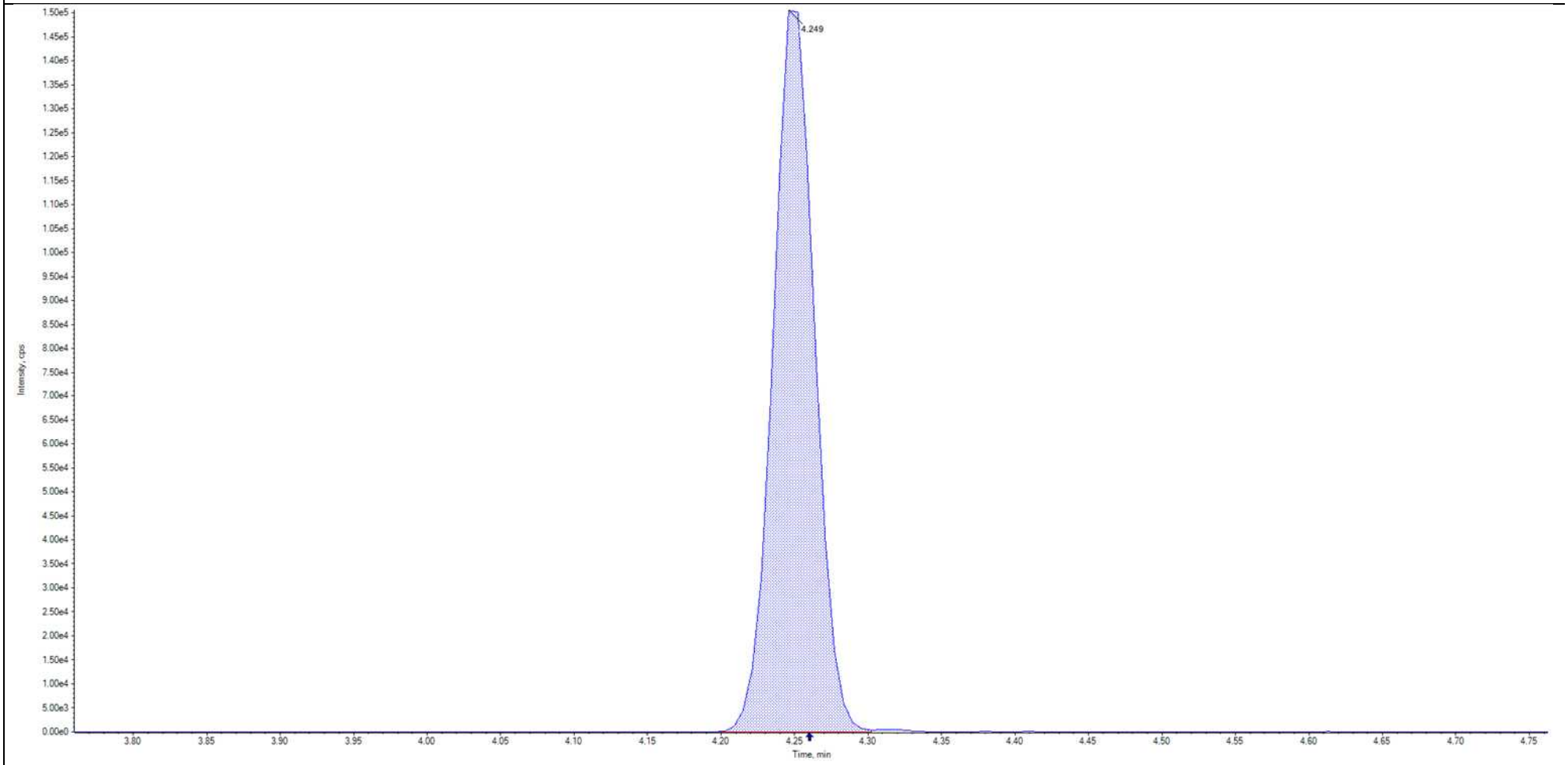
13C9-PFNA
Sample: CA1633STD-10



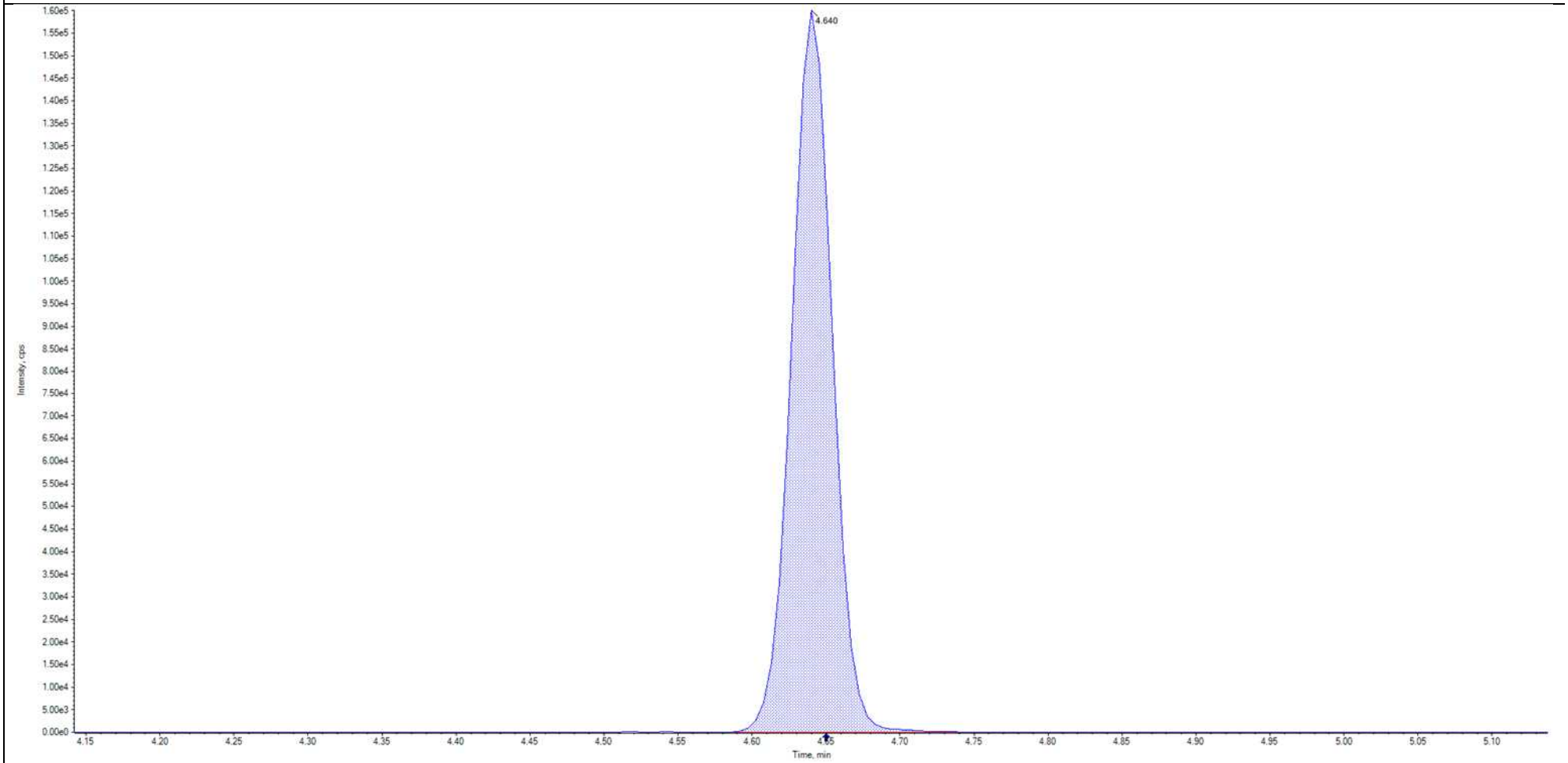
13C6-PFDA
Sample: CA1633STD-10



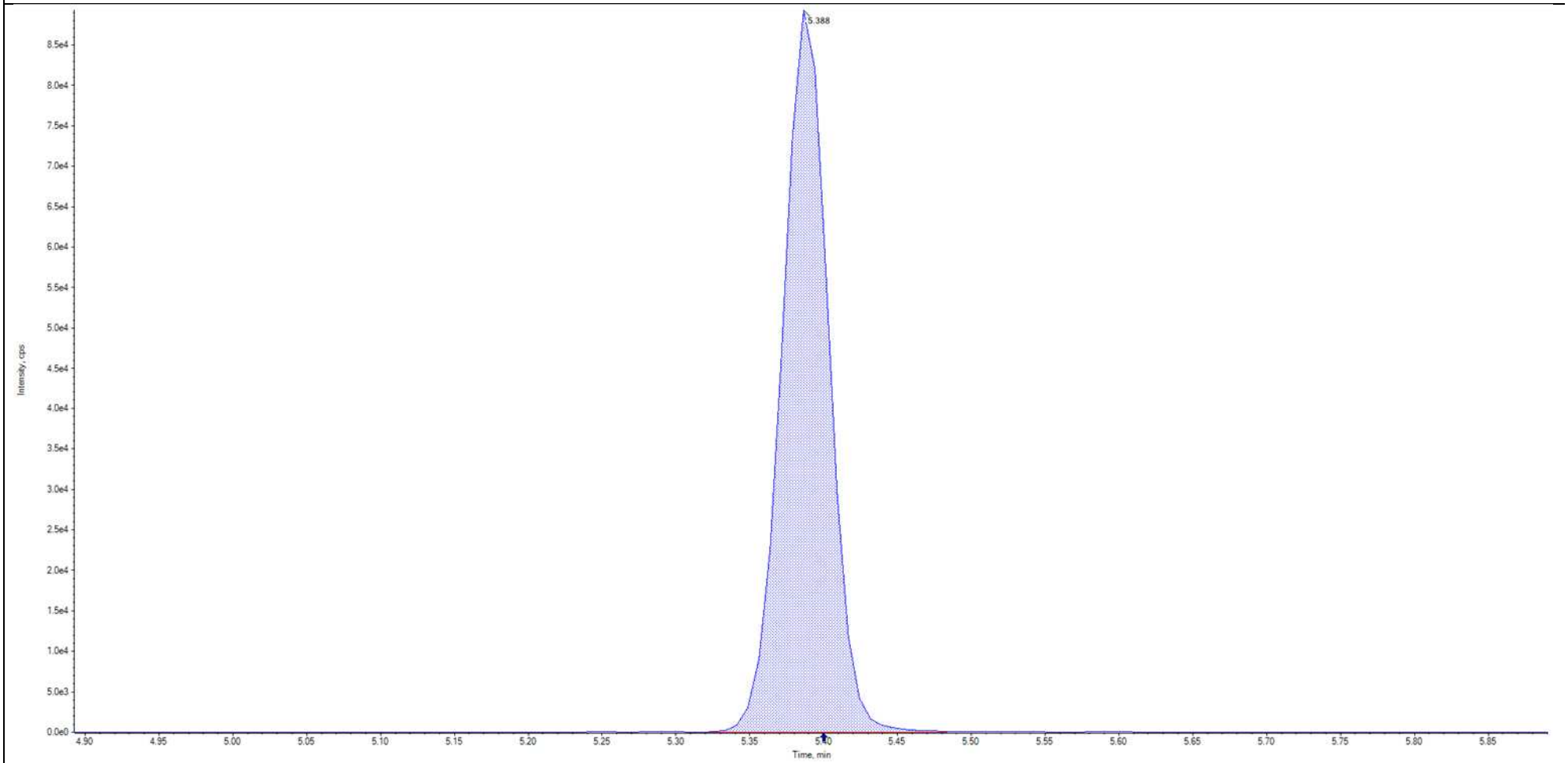
13C7-PFUnA
Sample: CA1633STD-10



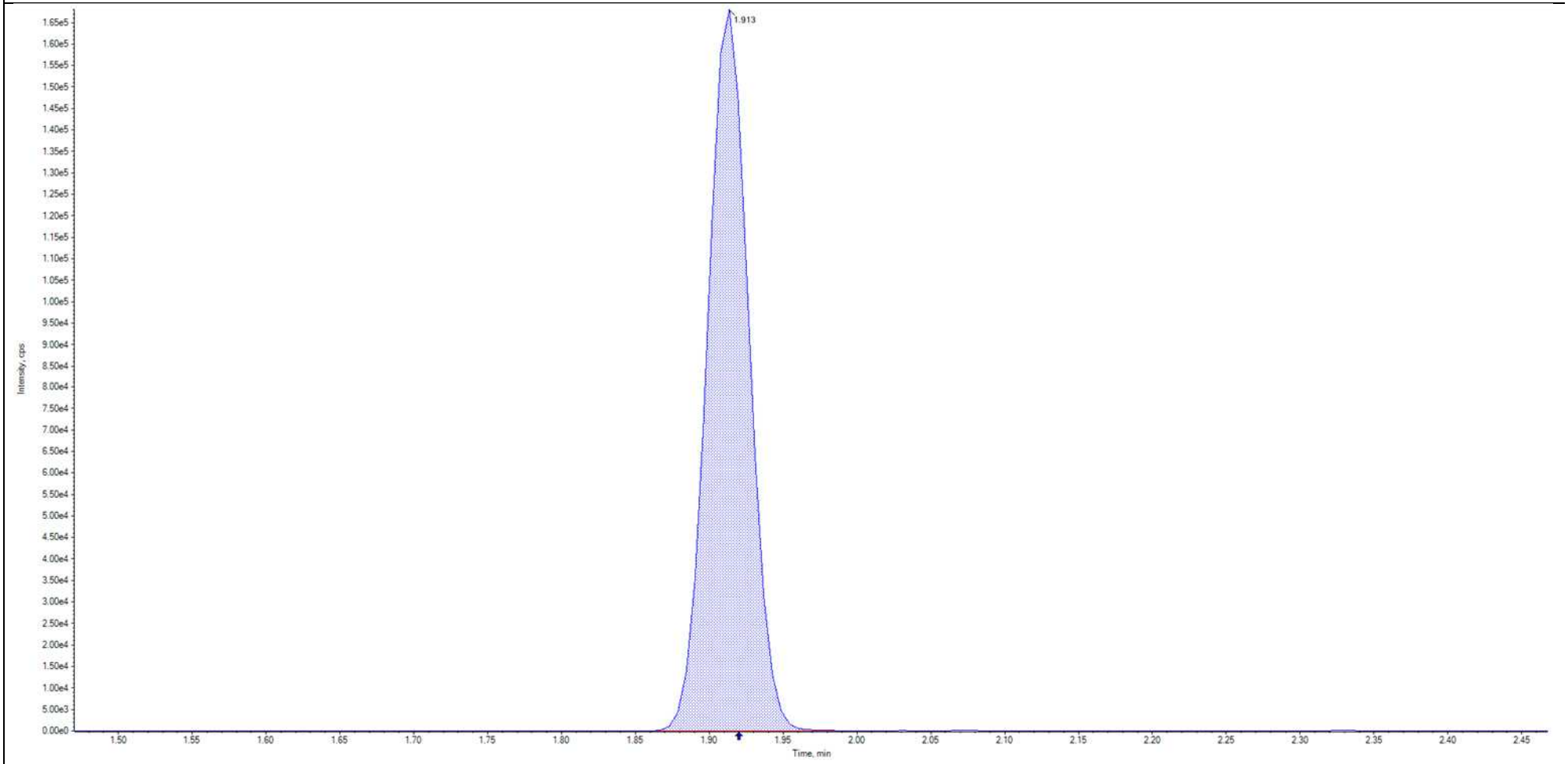
13C2-PFDoA
Sample: CA1633STD-10



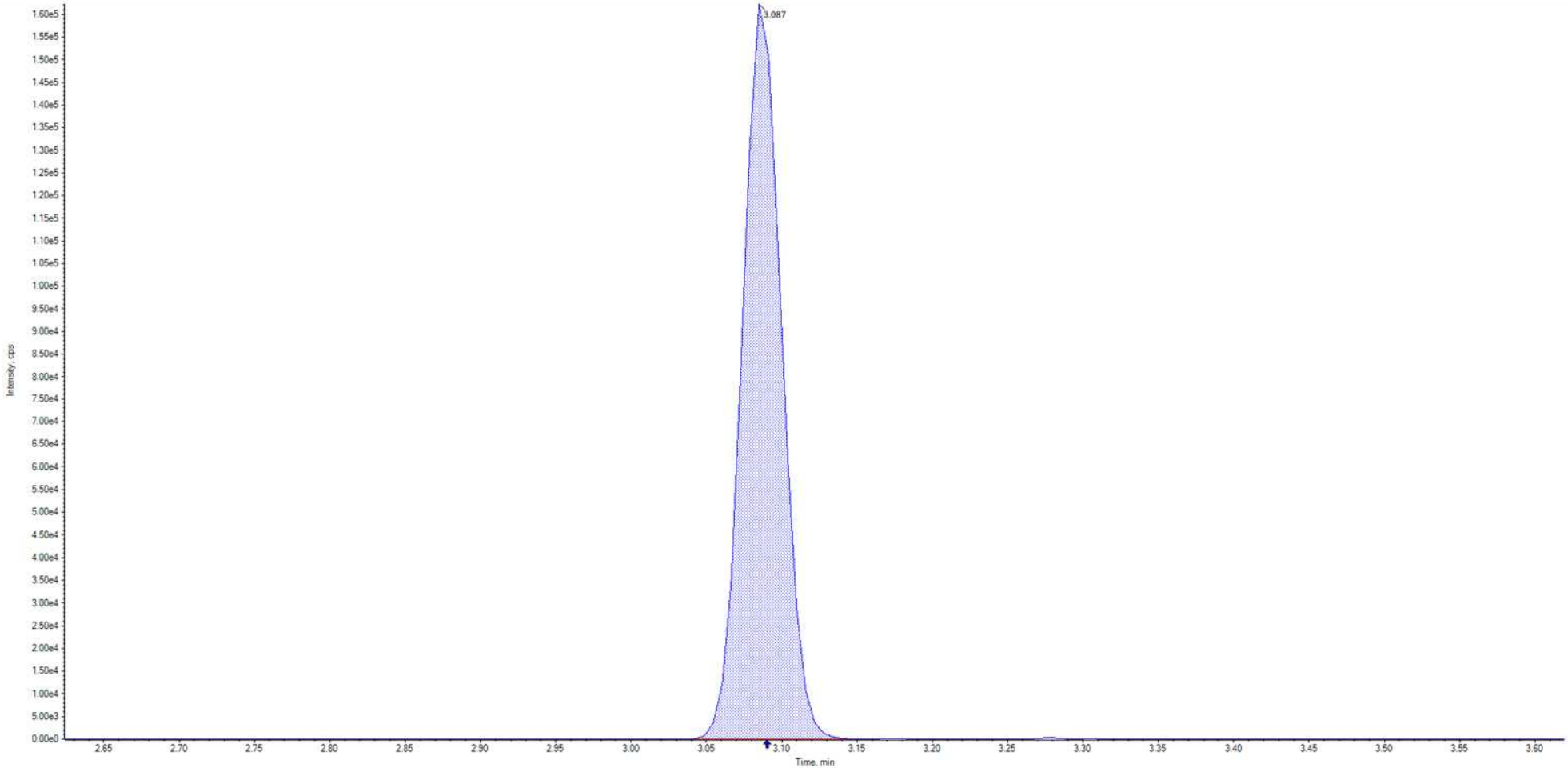
13C2-PFTeDA
Sample: CA1633STD-10



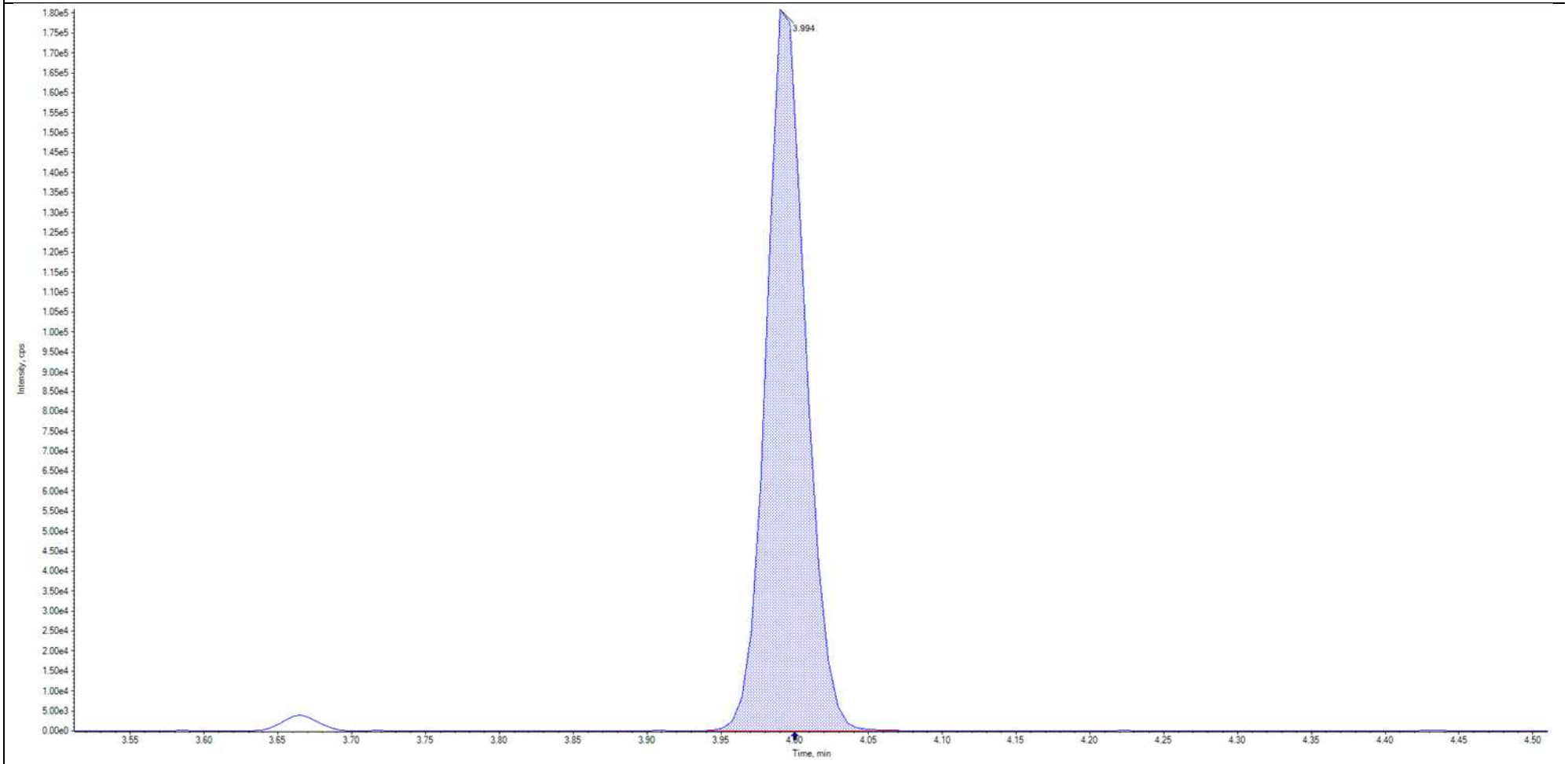
13C3-PFBS
Sample: CA1633STD-10



13C3-PFHxS
Sample: CA1633STD-10

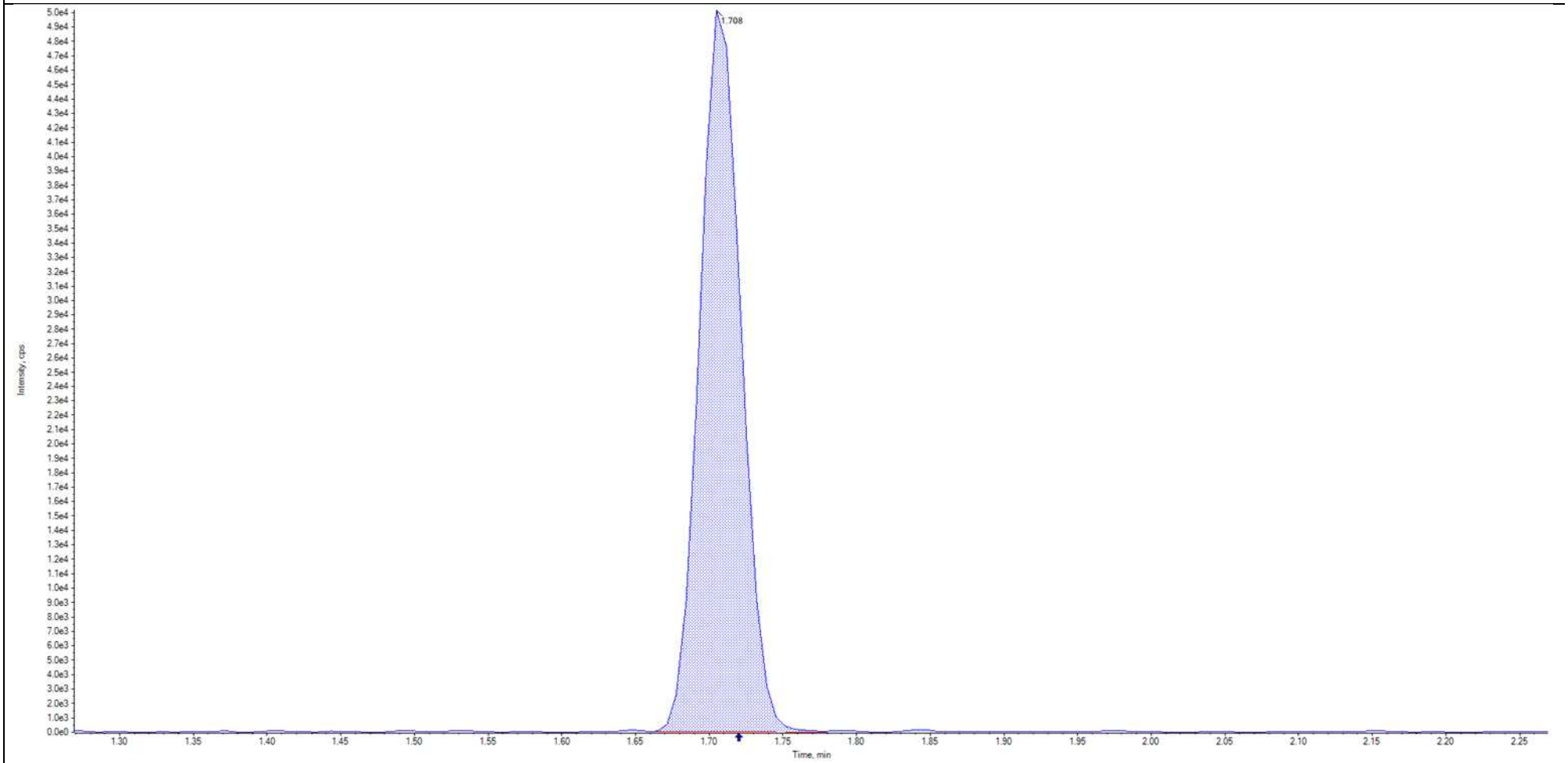


13C8-PFOS
Sample: CA1633STD-10

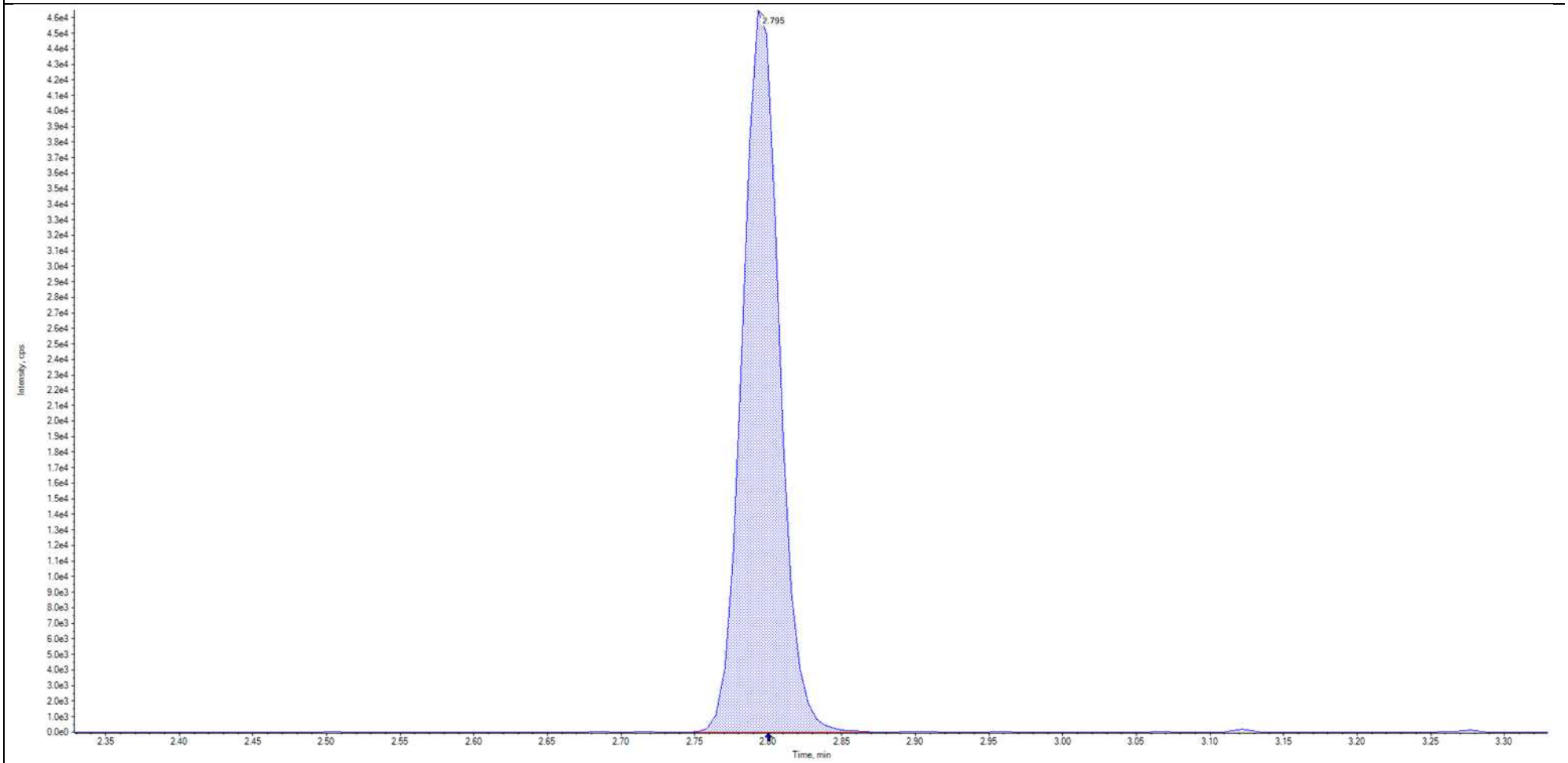


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

13C2-4:2FTS
Sample: CA1633STD-10

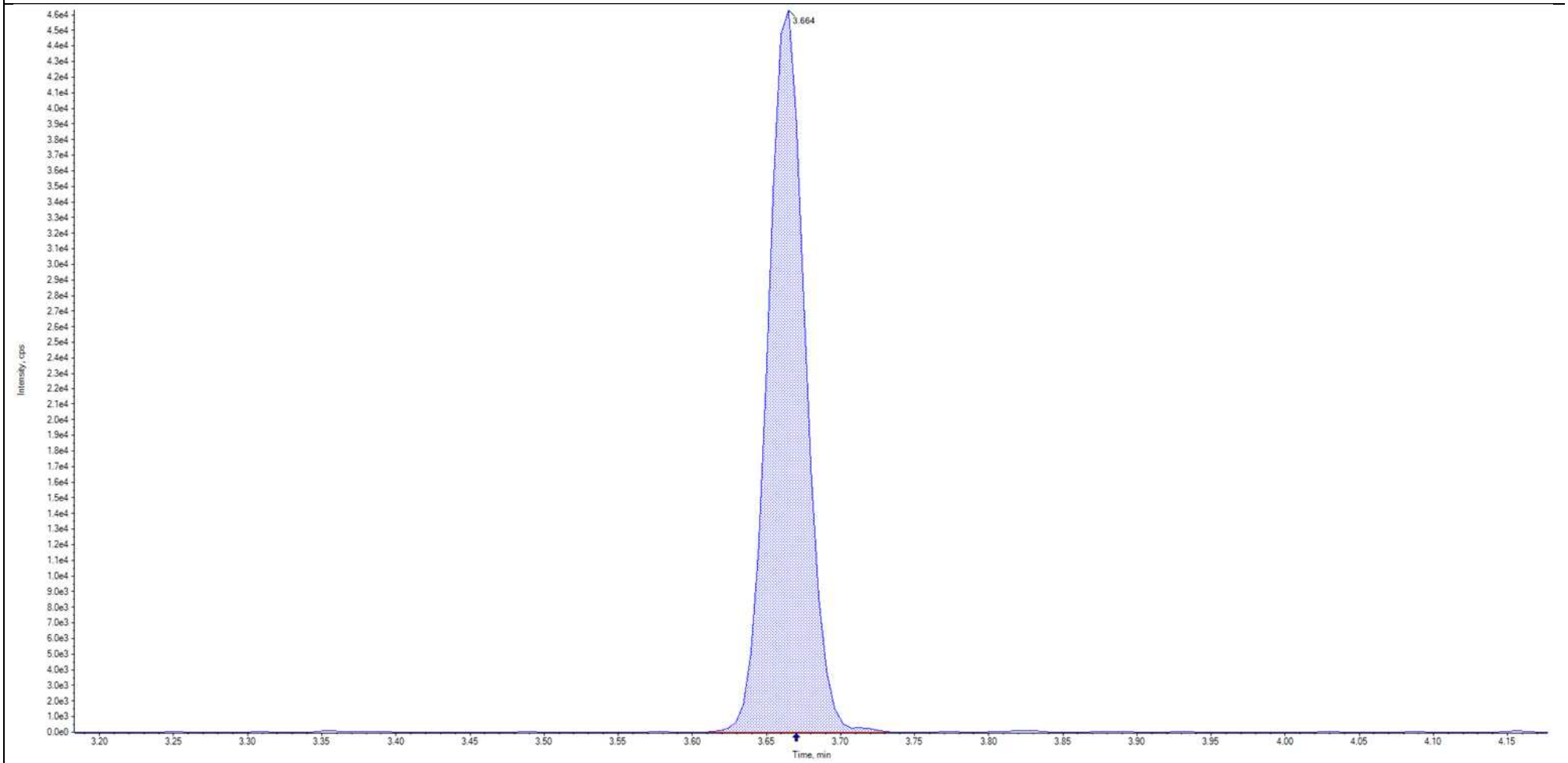


13C2-6:2FTS
Sample: CA1633STD-10

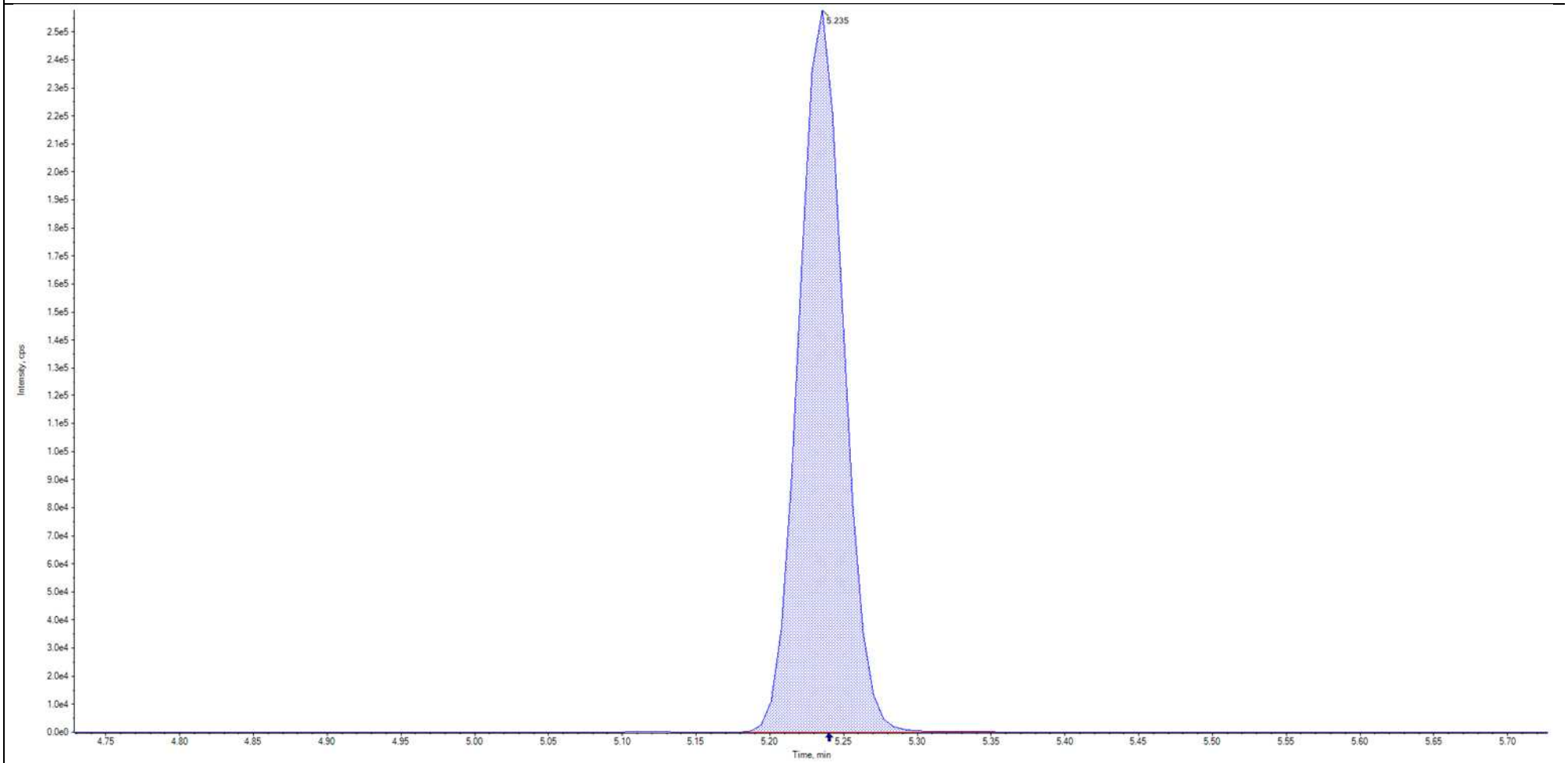


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

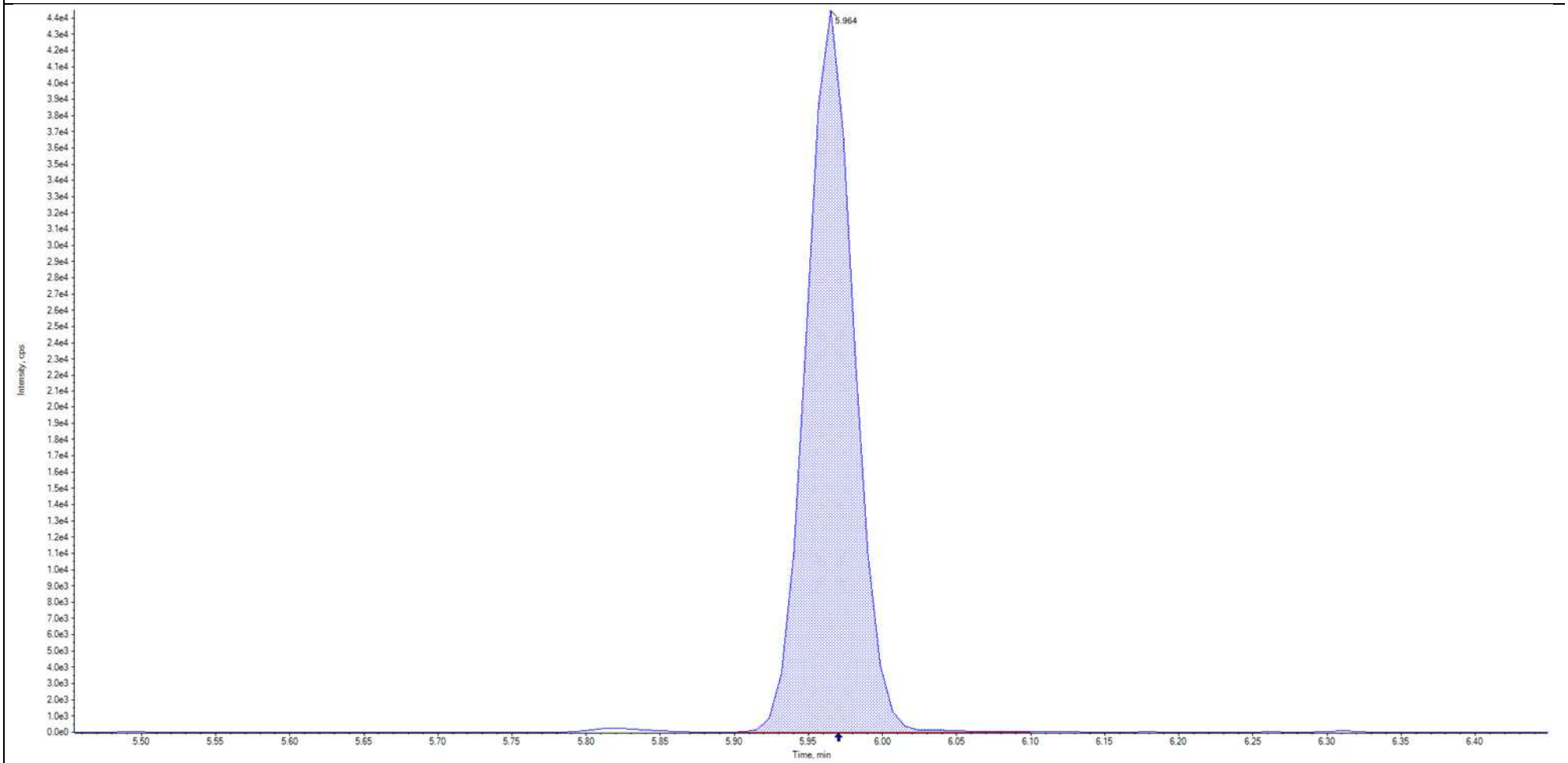
13C2-8:2FTS
Sample: CA1633STD-10



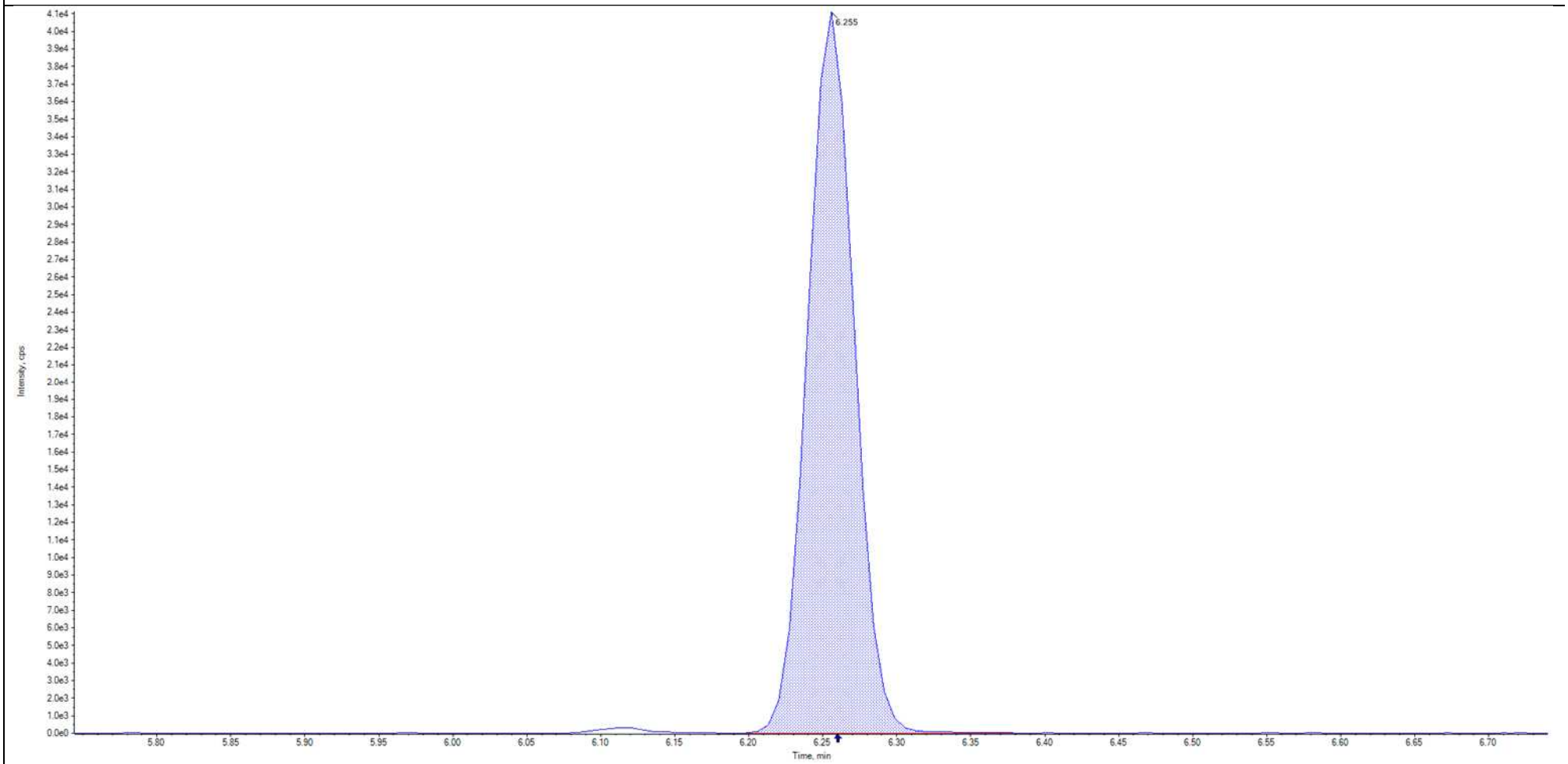
13C8-PFOSA
Sample: CA1633STD-10



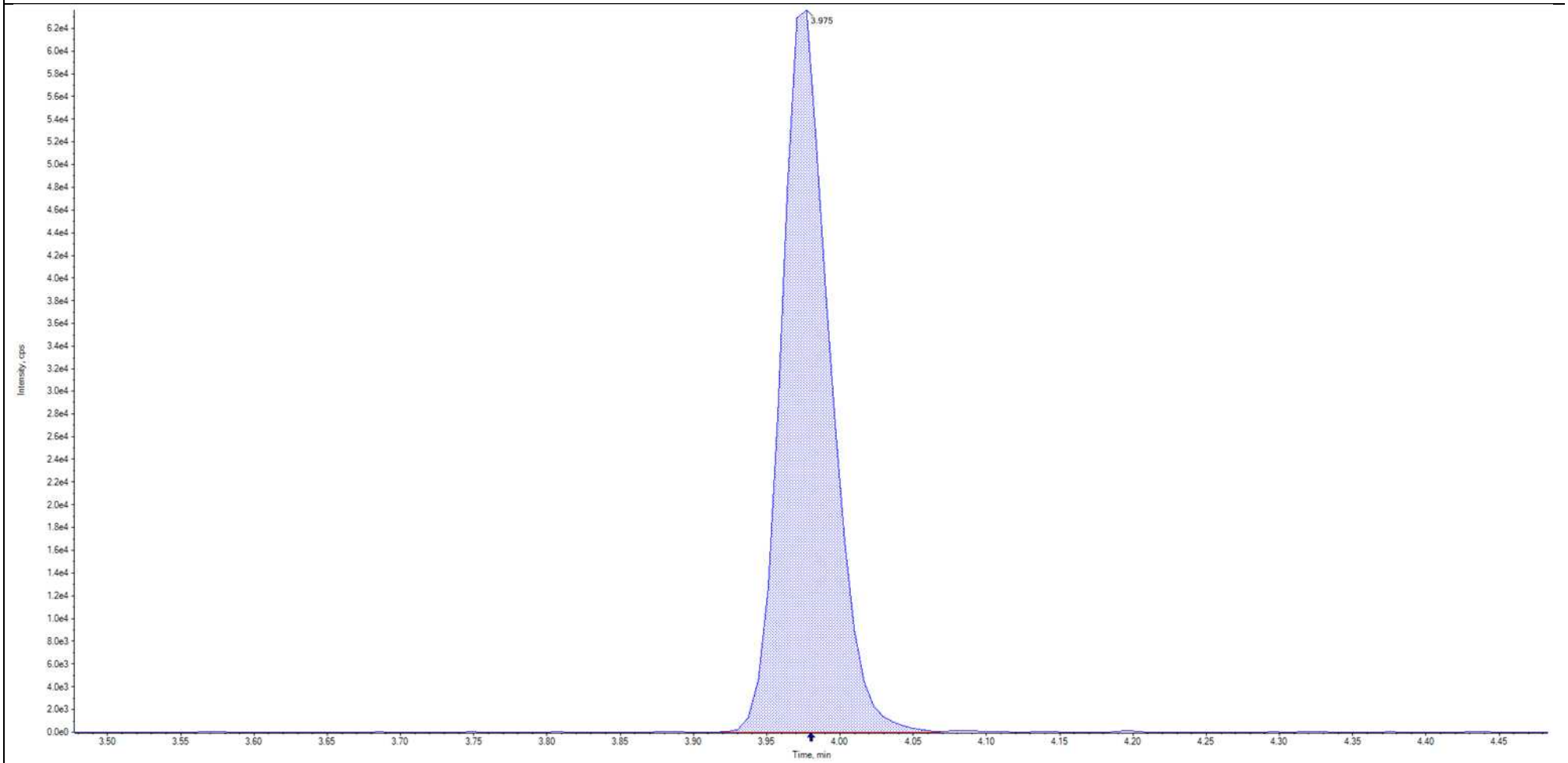
d3-NMeFOSA
Sample: CA1633STD-10



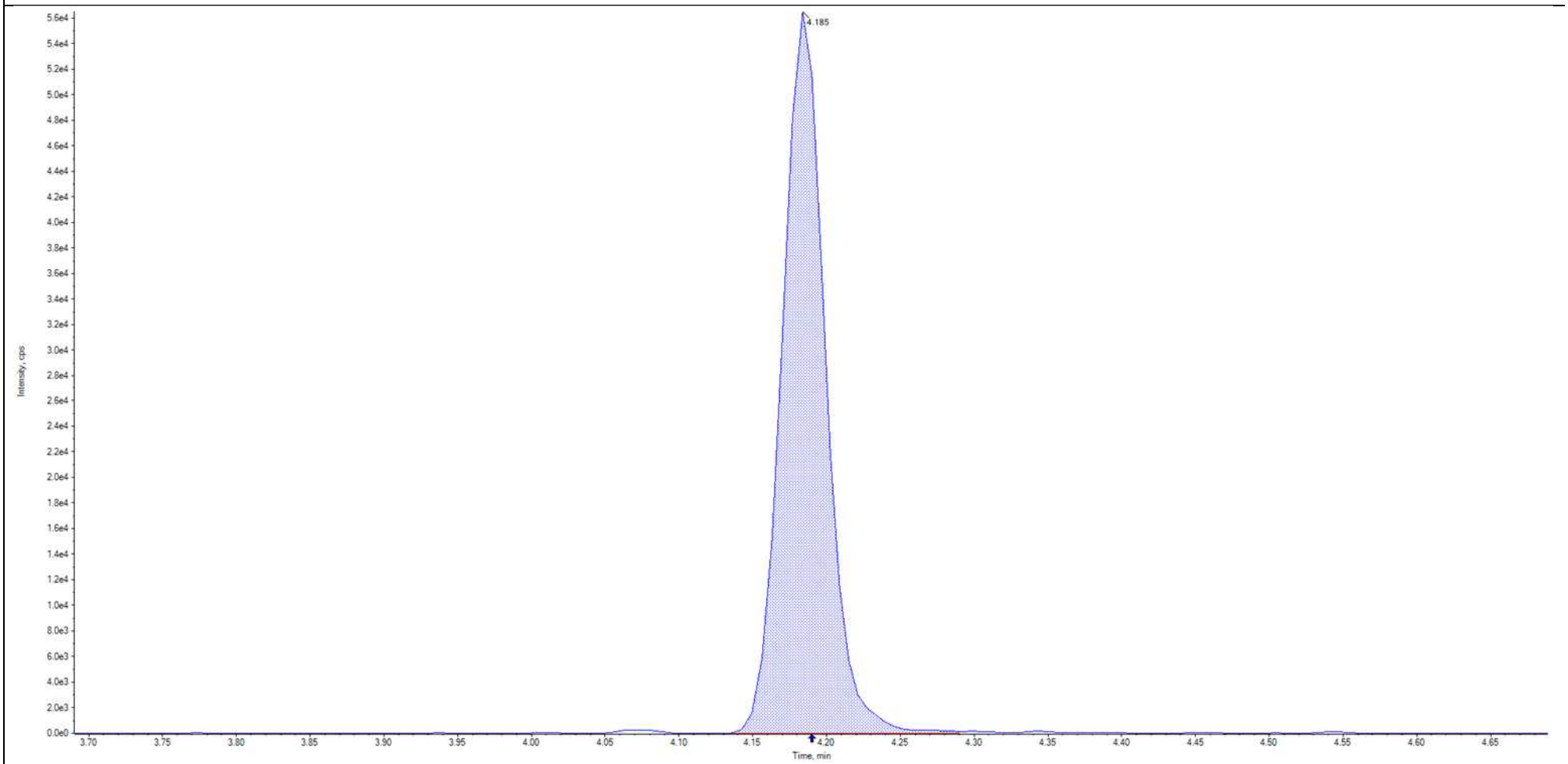
d5-NEtFOSA
Sample: CA1633STD-10



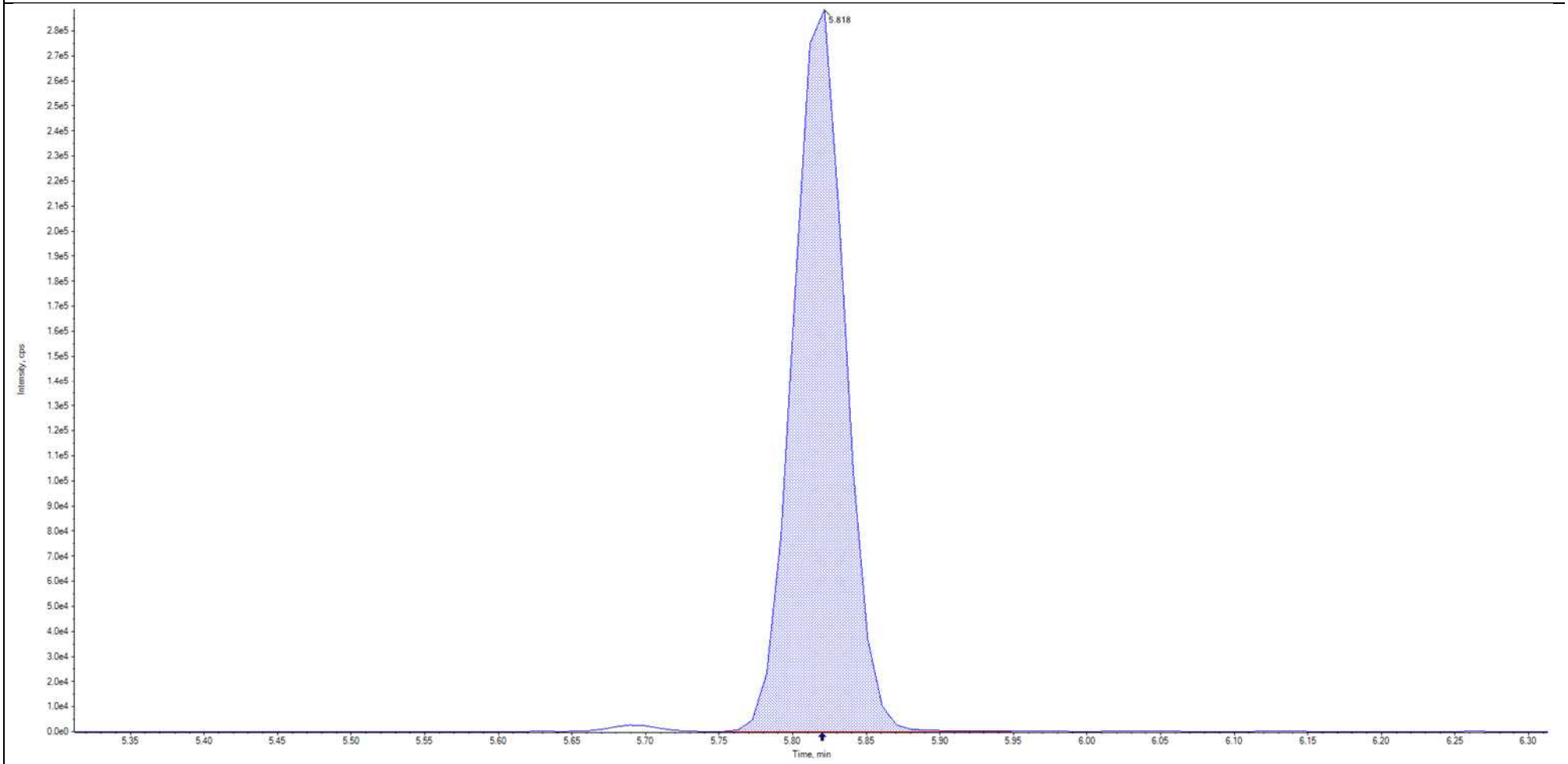
d3-NMeFOSAA
Sample: CA1633STD-10



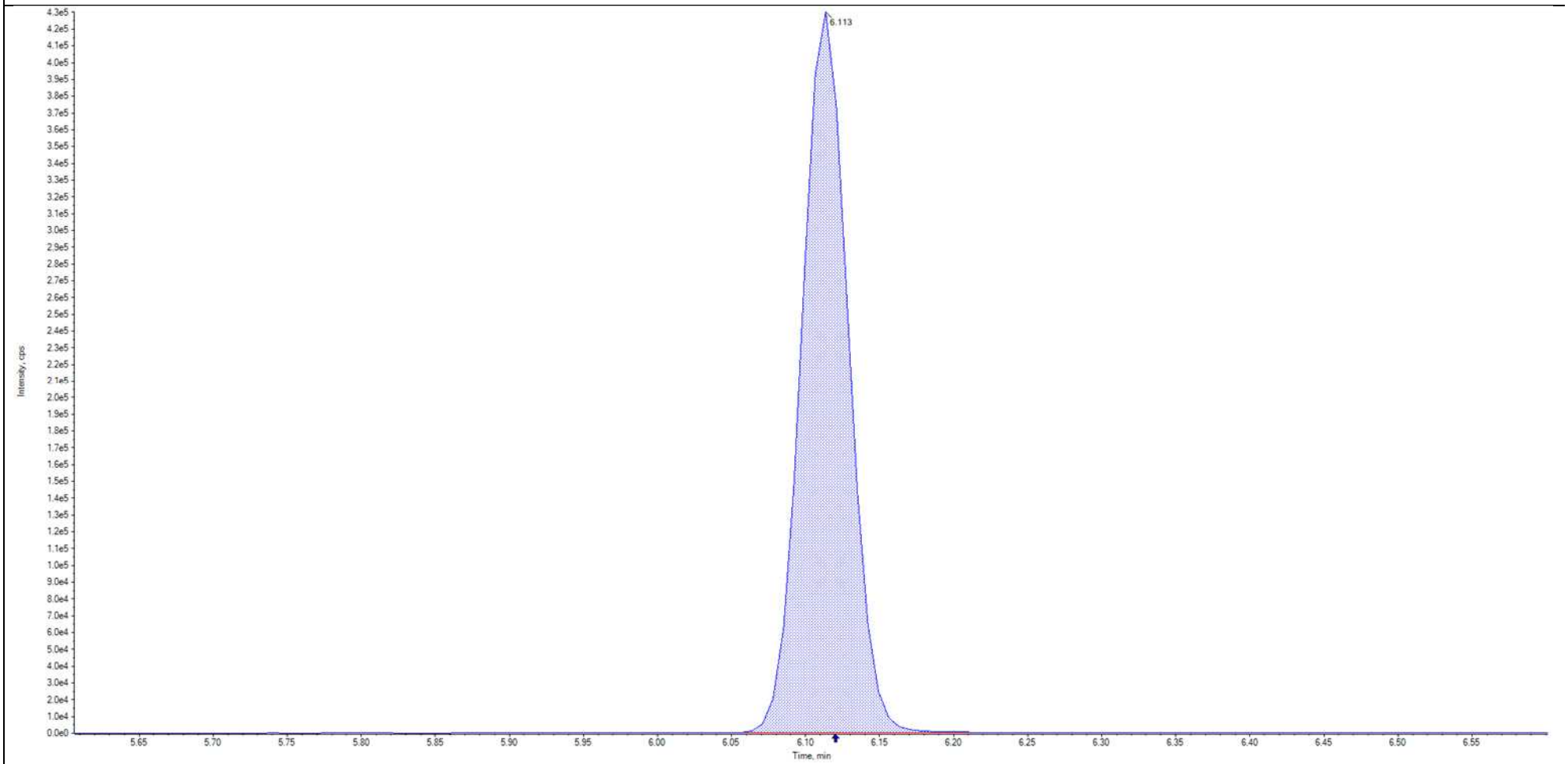
d5-NEtFOSAA
Sample: CA1633STD-10



d7-NMeFOSE
Sample: CA1633STD-10

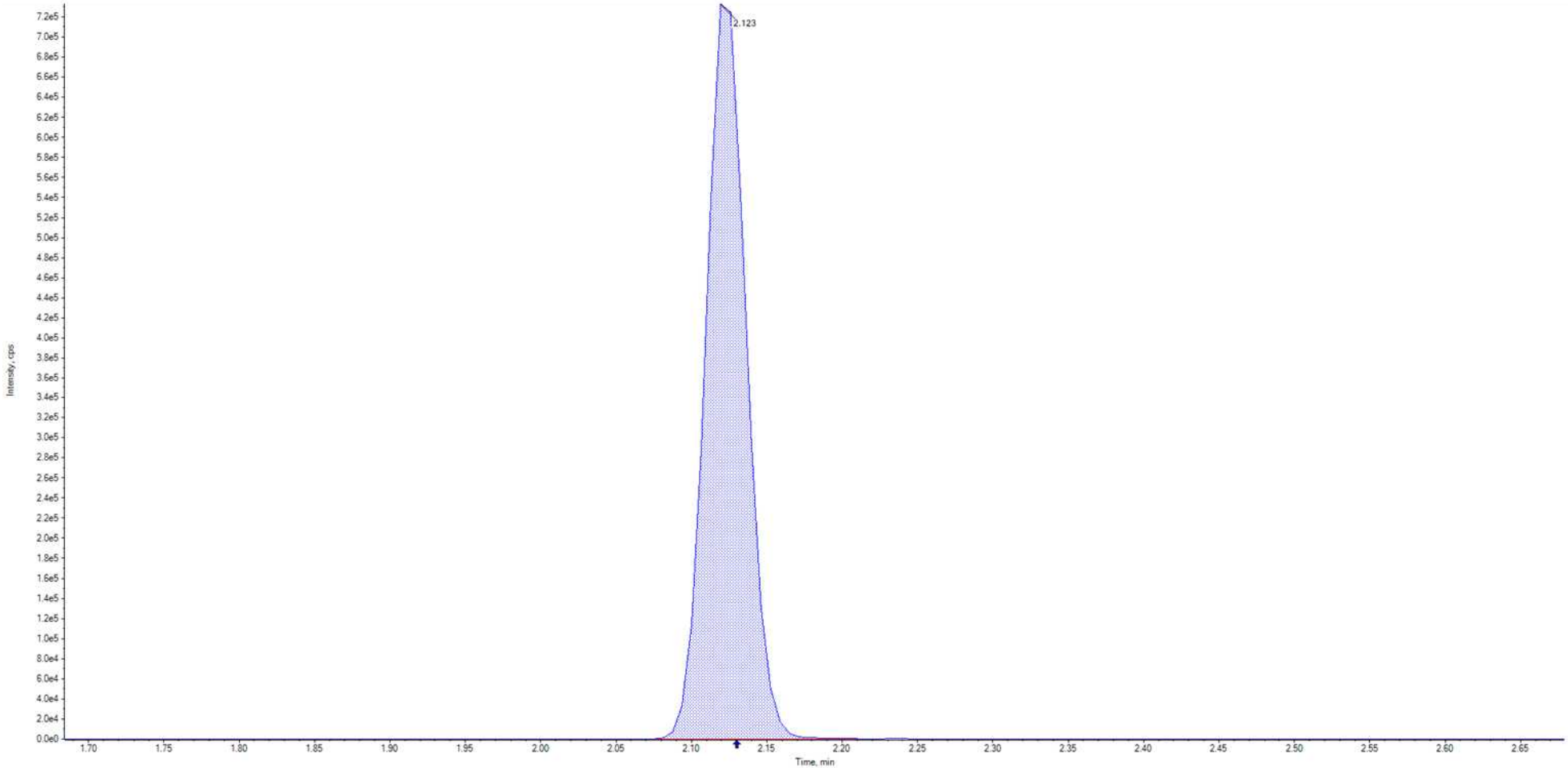


d9-NEtFOSE
Sample: CA1633STD-10

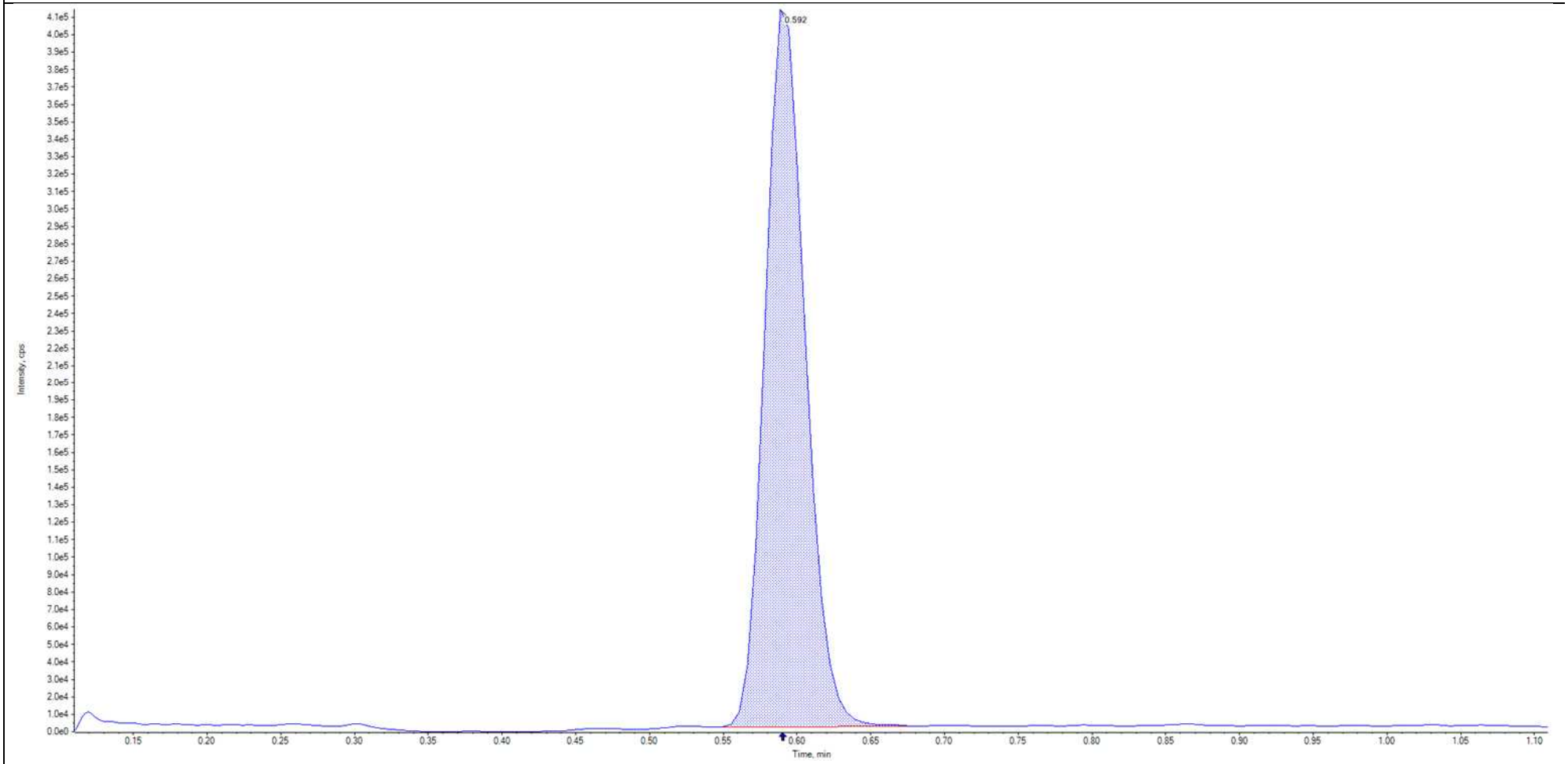


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_33.wiff2_3
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Generated: 3/4/2025 5:58:35 AM

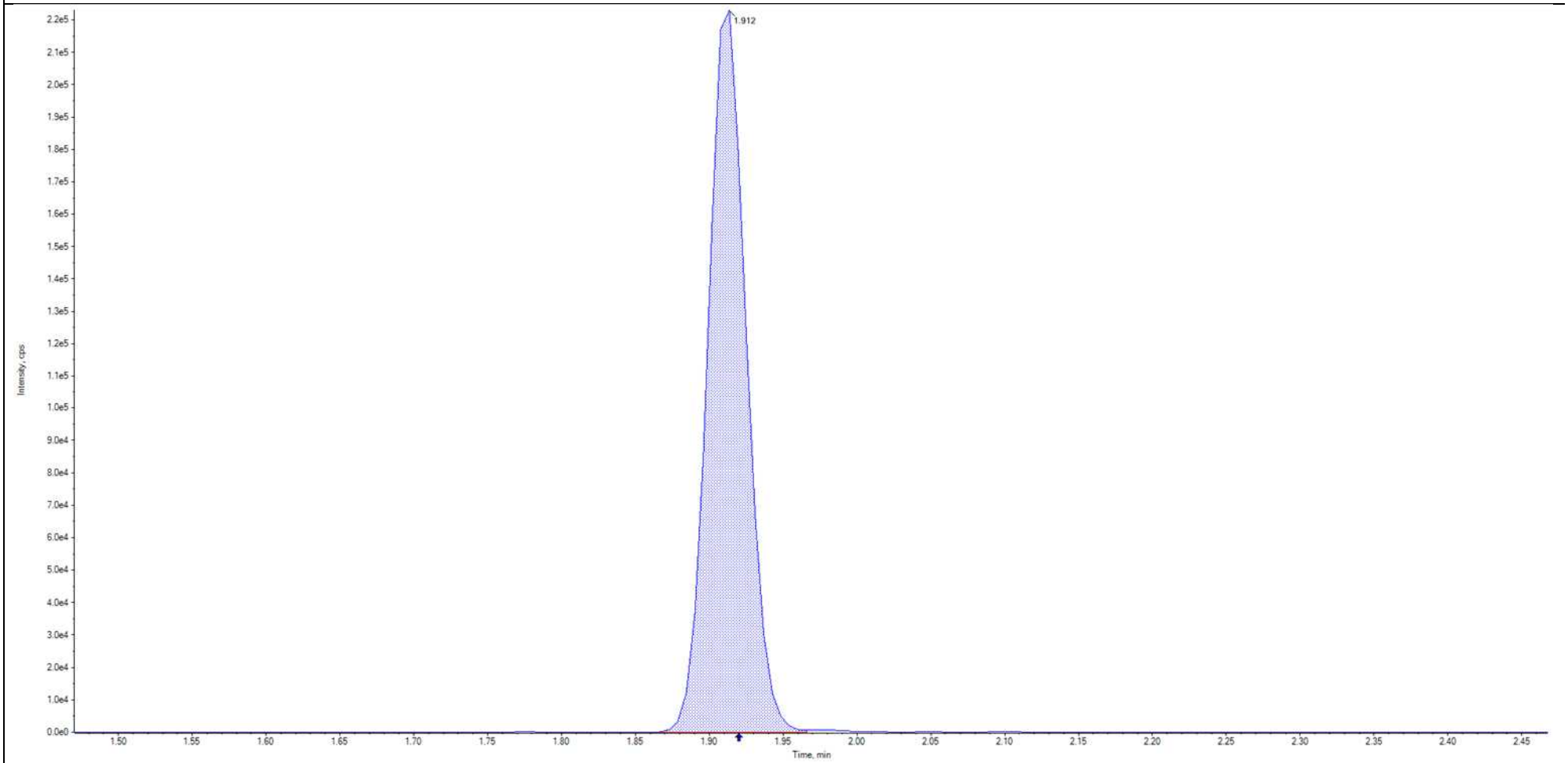
13C3-HFPO-DA
Sample: CA1633STD-10



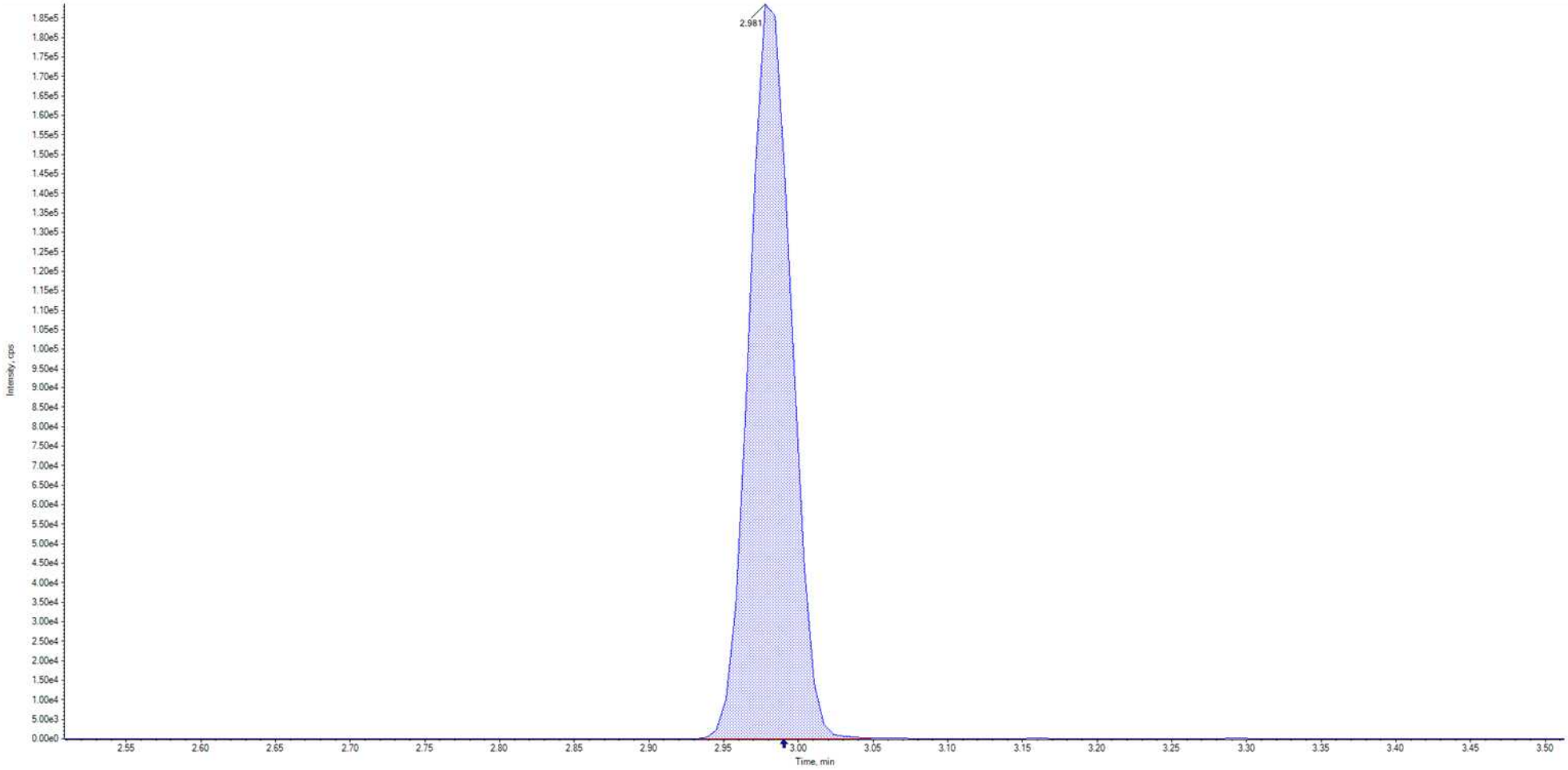
13C3-PFBA
Sample: CA1633STD-10



13C2-PFHxA
Sample: CA1633STD-10

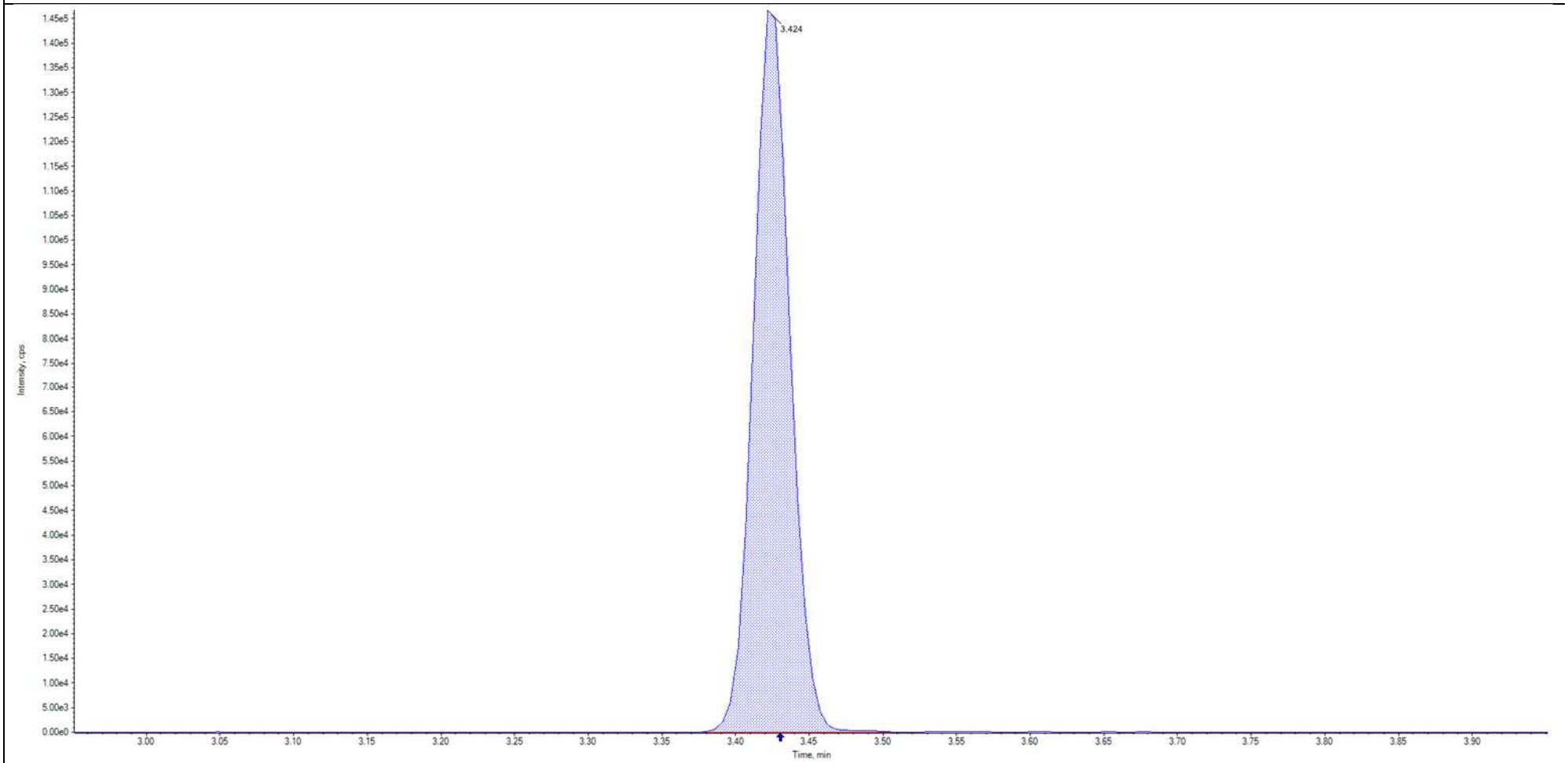


13C4-PFOA
Sample: CA1633STD-10



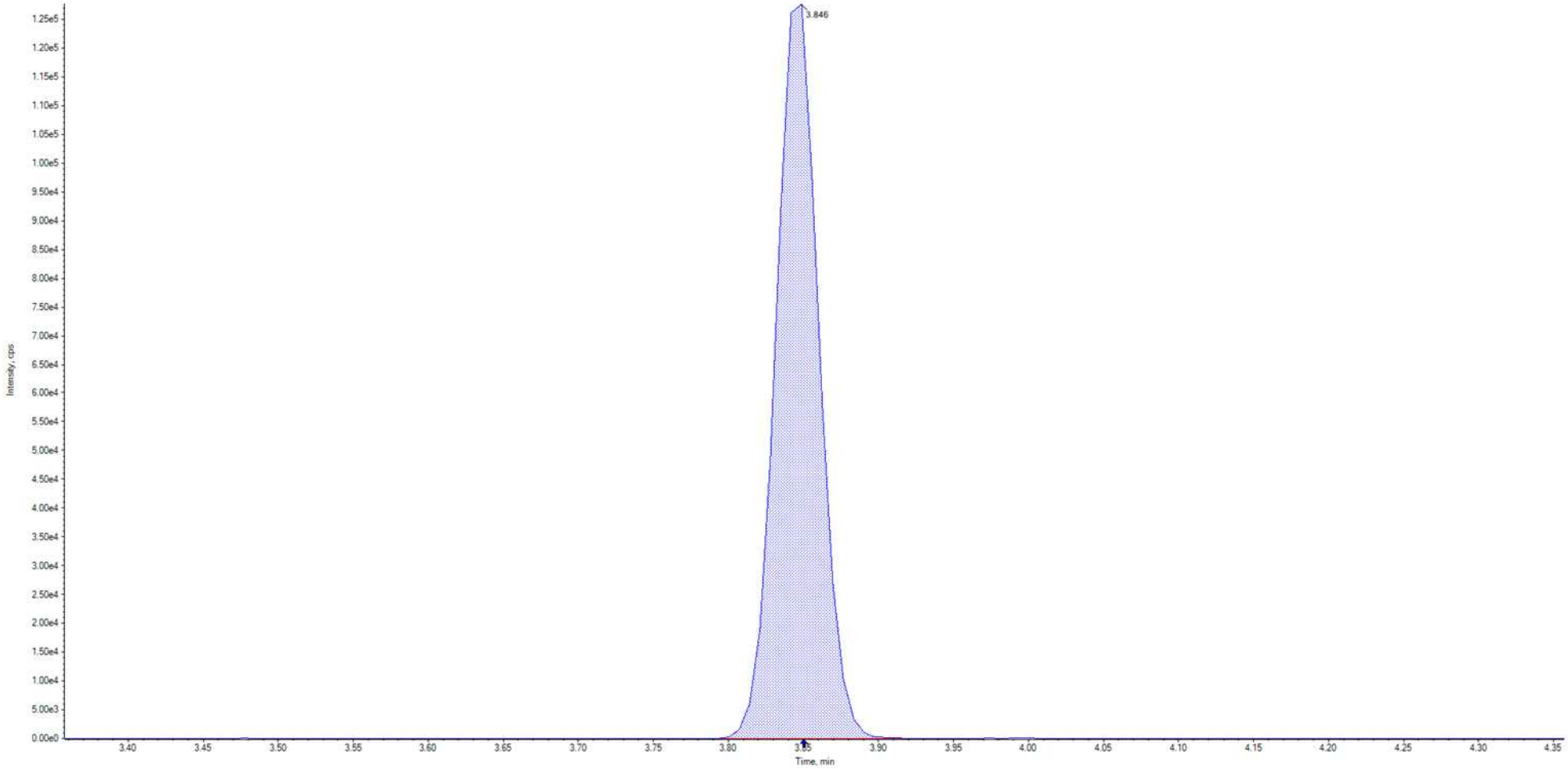
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

13C5-PFNA
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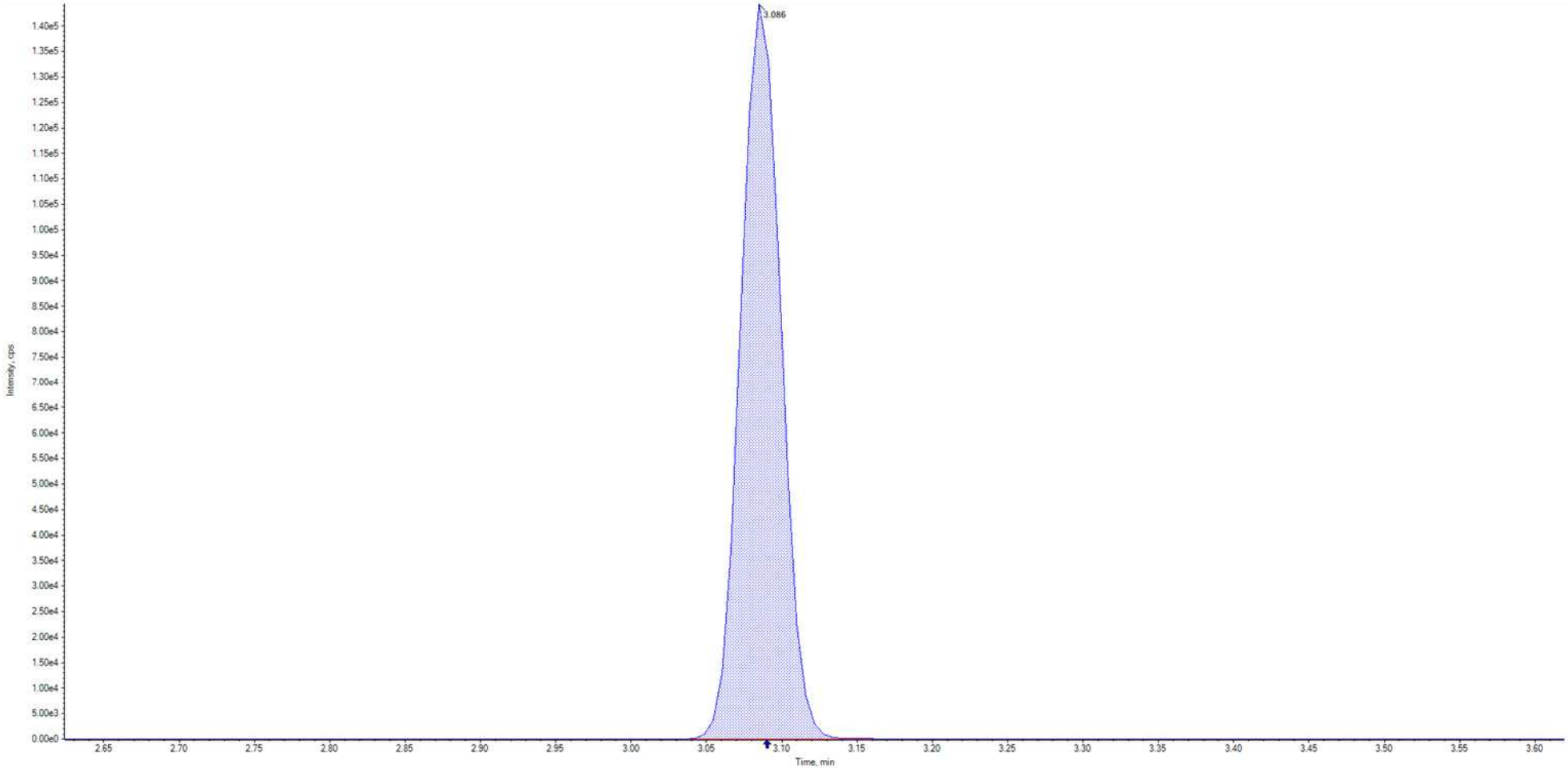


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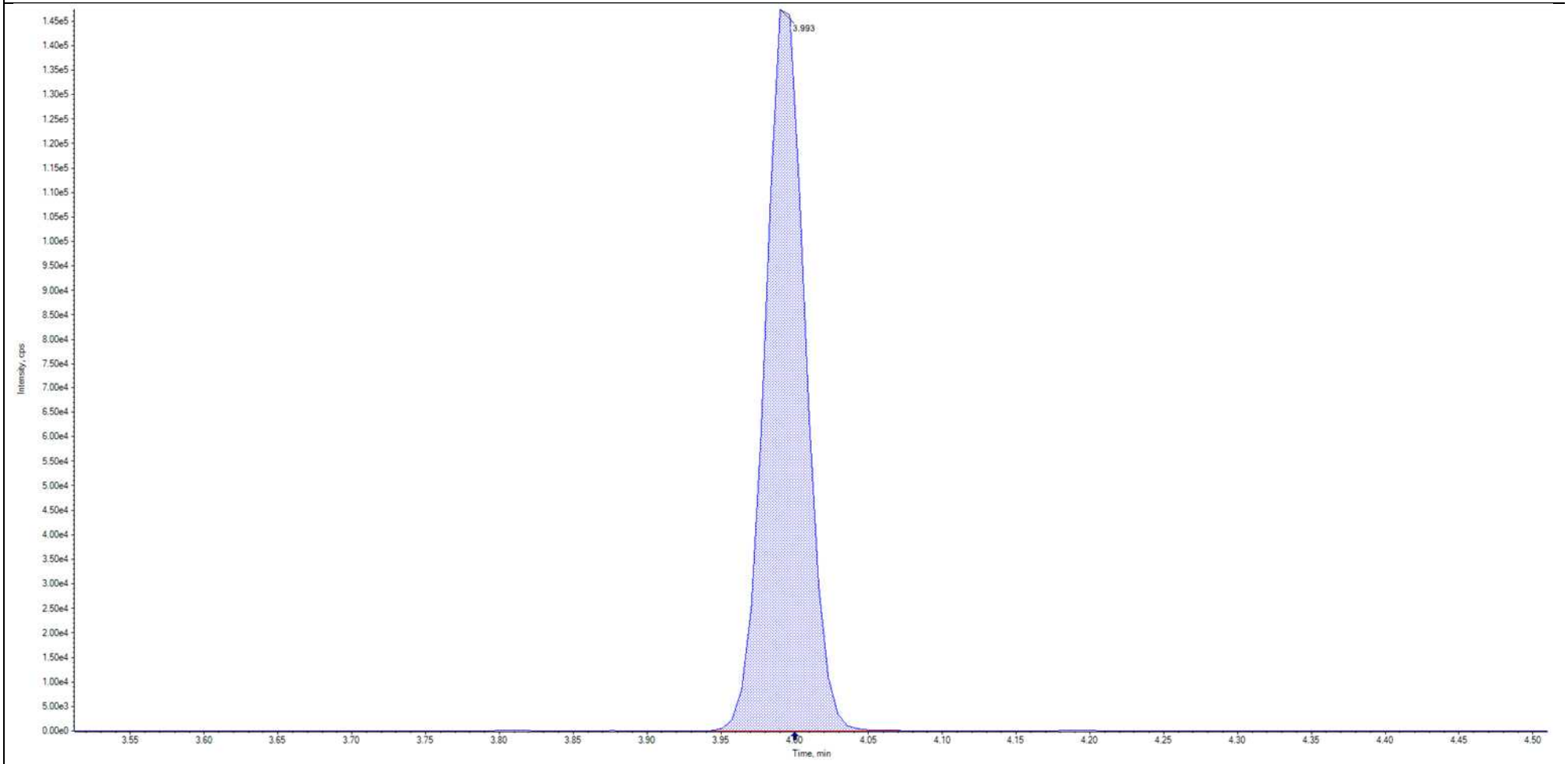
13C2-PFDA
Sample: CA1633STD-10



18O2-PFHxS
Sample: CA1633STD-10



13C4-PFOS
Sample: CA1633STD-10



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

ID: WG2035972-1,BSICS
Name: SCI09_250303_26.wiff2
Date & Time: 2025-03-03T15:17:32
Description: WG2035972,,EPA1633F_250303_CAL_L5
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:JW

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
76	TDCA	RT +/- PFOS	1.34	499.1 / 124.1	1993257		10.000	5.680	5.680	Pass	100.0
77	TDCA_2	RT +/- PFOS	1.34	499.1 / 79.9	11320857		10.000	5.680	5.680	Pass	100.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.60	217.0 / 172.0	1893182		9.925	NA	NA	NA	99.2
	13C5-PFPeA	EIS	1.18	268.0 / 223.0	815409		4.751	NA	NA	NA	95.0

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C5-PFHxA	EIS	1.92	318.0 / 273.0	373194		2.313	NA	NA	NA	92.5
13C4-PFHpA	EIS	2.50	367.0 / 322.0	383347		2.463	NA	NA	NA	98.5
13C8-PFOA	EIS	2.99	420.8 / 376.0	619864		2.352	NA	NA	NA	94.1
13C9-PFNA	EIS	3.43	472.0 / 427.0	267518		1.165	NA	NA	NA	93.2
13C6-PFDA	EIS	3.85	519.0 / 474.0	303509		1.169	NA	NA	NA	93.6
13C7-PFUnA	EIS	4.26	570.0 / 525.0	344649		1.203	NA	NA	NA	96.3
13C2-PFDoA	EIS	4.65	615.1 / 570.0	339869		1.180	NA	NA	NA	94.4

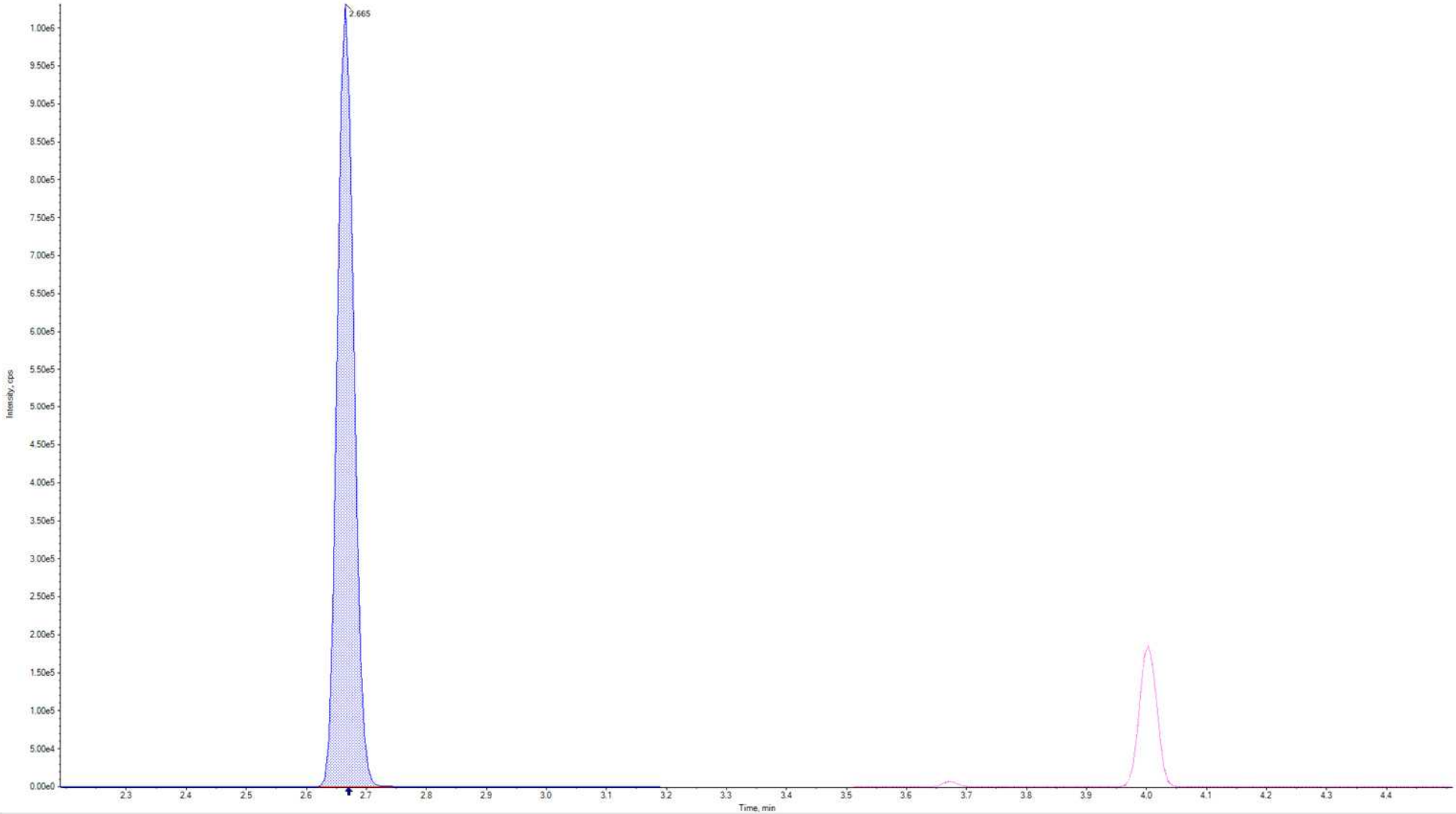
	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFTeDA	EIS	5.40	715.1 / 670.1	227851		1.219	NA	NA	NA	97.6
	13C3-PFBS	EIS	1.92	302.1 / 80.1	383340		2.189	NA	NA	NA	94.0
	13C3-PFHxS	EIS	3.09	402.1 / 80.1	341511		2.194	NA	NA	NA	92.6
	13C8-PFOS	EIS	4.00	507.1 / 80.1	375974		2.474	NA	NA	NA	103.1
	13C2-4:2FTS	EIS	1.72	329.1 / 81.1	106752		4.134	NA	NA	NA	88.1
	13C2-6:2FTS	EIS	2.80	429.2 / 81.1	98255		4.419	NA	NA	NA	92.8
	13C2-8:2FTS	EIS	3.67	529.2 / 81.1	95058		4.223	NA	NA	NA	88.0
	13C8-PFOSA	EIS	5.24	506.1 / 78.1	605958		2.512	NA	NA	NA	100.5

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
d3-NMeFOSA	EIS	5.97	515.2 / 219.0	112380		2.580	NA	NA	NA	103.2
d5-NEtFOSA	EIS	6.26	531.2 / 219.0	102844		2.596	NA	NA	NA	103.9
d3-NMeFOSAA	EIS	3.98	573.2 / 419.1	173229		5.812	NA	NA	NA	116.2
d5-NEtFOSAA	EIS	4.19	589.3 / 419.1	117302		4.925	NA	NA	NA	98.5
d7-NMeFOSE	EIS	5.82	623.2 / 58.9	811391		25.897	NA	NA	NA	103.6
d9-NEtFOSE	EIS	6.12	639.2 / 58.9	1081459		25.731	NA	NA	NA	102.9
13C3-HFPO-DA	EIS	2.13	287.0 / 169.0	1620896		9.497	NA	NA	NA	95.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-PFBA	NIS	0.59	216.0 / 172.0	844058		5.824	NA	NA	NA	116.5
	13C2-PFHxA	NIS	1.92	315.0 / 270.0	475130		2.932	NA	NA	NA	117.3
	13C4-PFOA	NIS	2.99	417.0 / 372.0	400543		2.786	NA	NA	NA	111.4
	13C5-PFNA	NIS	3.43	468.0 / 423.0	287712		1.396	NA	NA	NA	111.7
	13C2-PFDA	NIS	3.85	515.1 / 470.1	302924		1.425	NA	NA	NA	114.0
	18O2-PFHxS	NIS	3.09	403.1 / 84.1	327303		2.780	NA	NA	NA	117.3
	13C4-PFOS	NIS	4.00	503.1 / 80.1	305674		2.543	NA	NA	NA	105.9

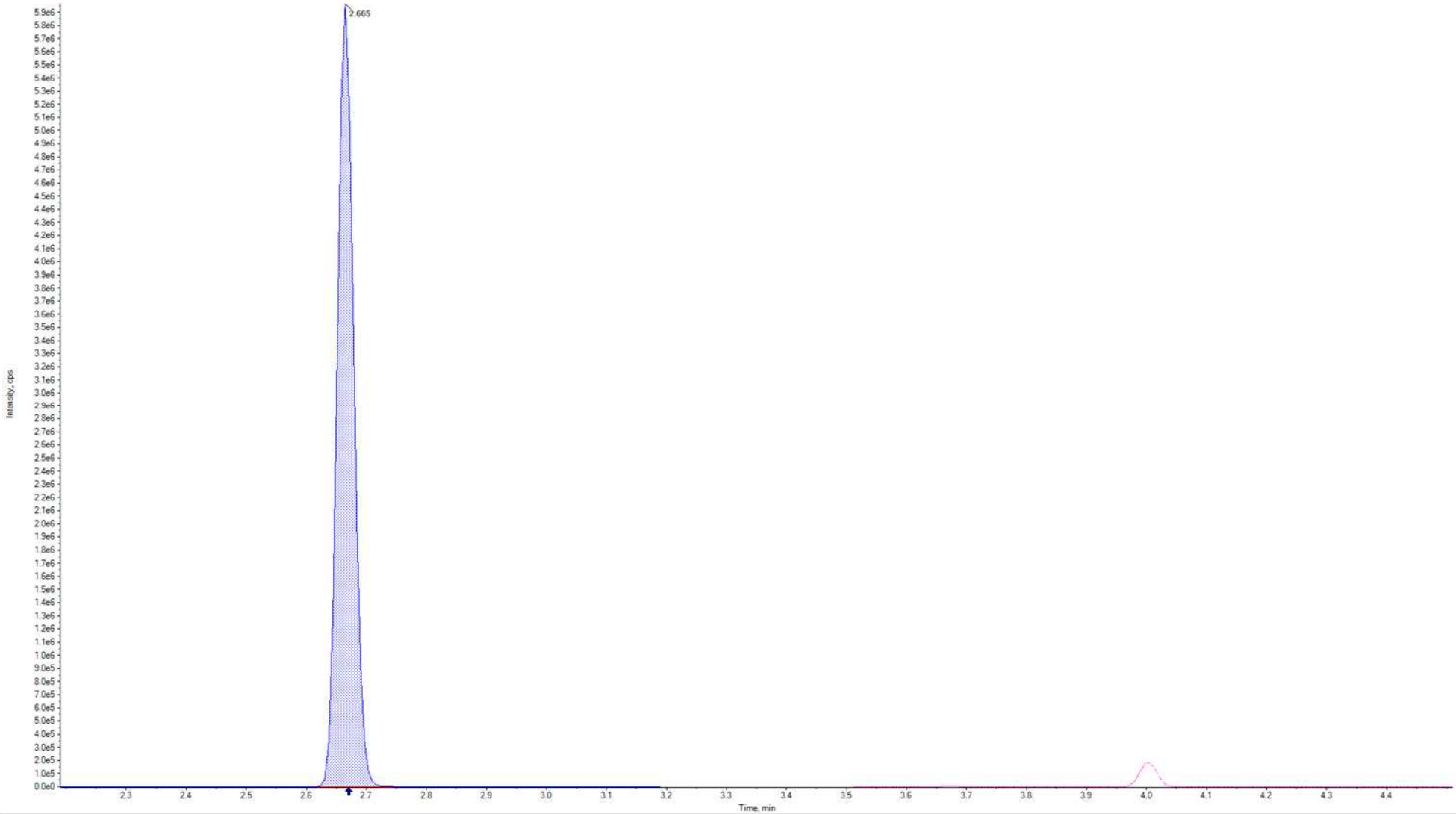
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Alpha Analytical LLC
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Last Altered: 3/4/2025 7:01:43 AM
Generated: 3/4/2025 5:58:35 AM

TDCA
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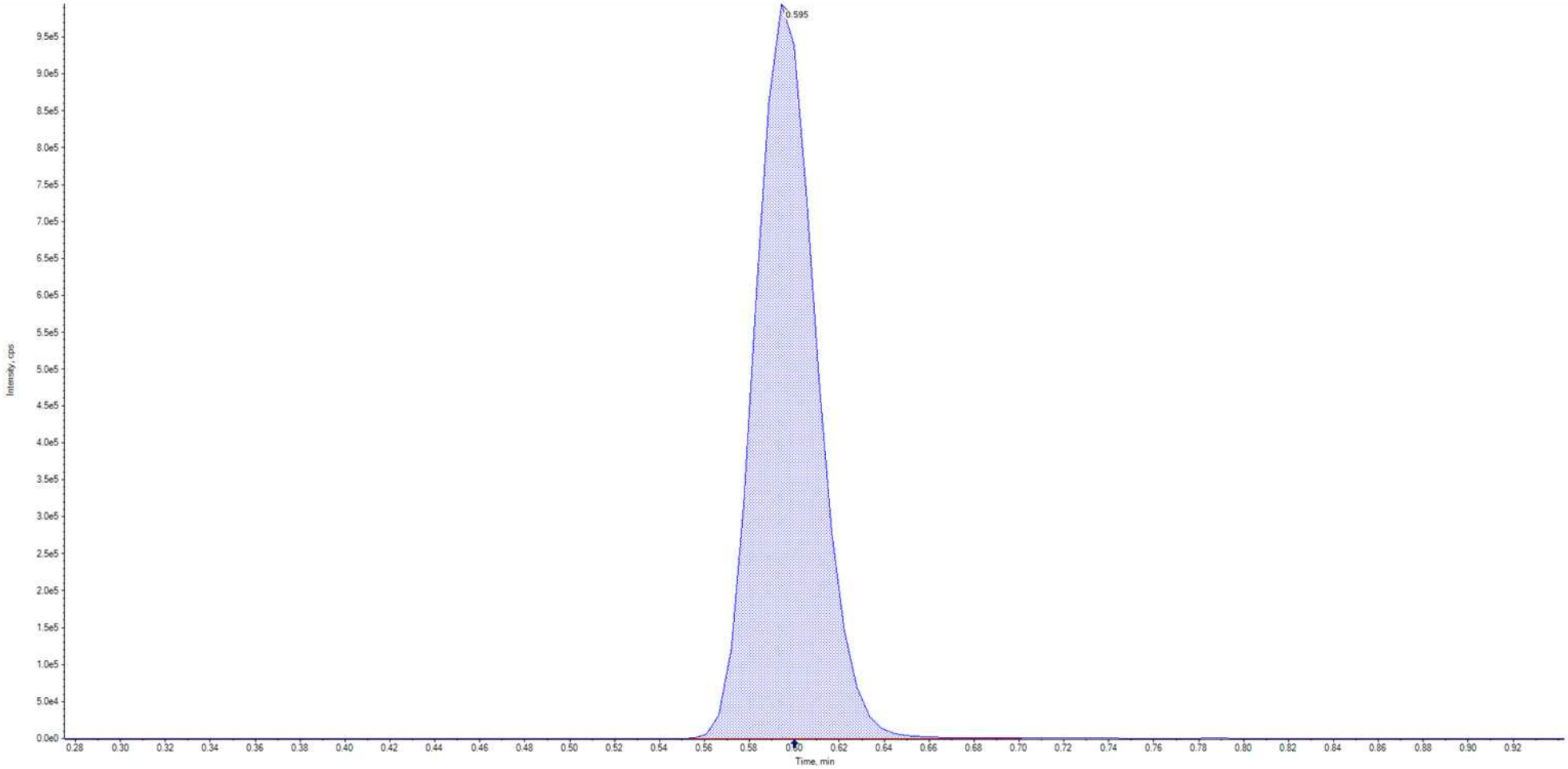


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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Last Altered: 3/4/2025 7:01:43 AM
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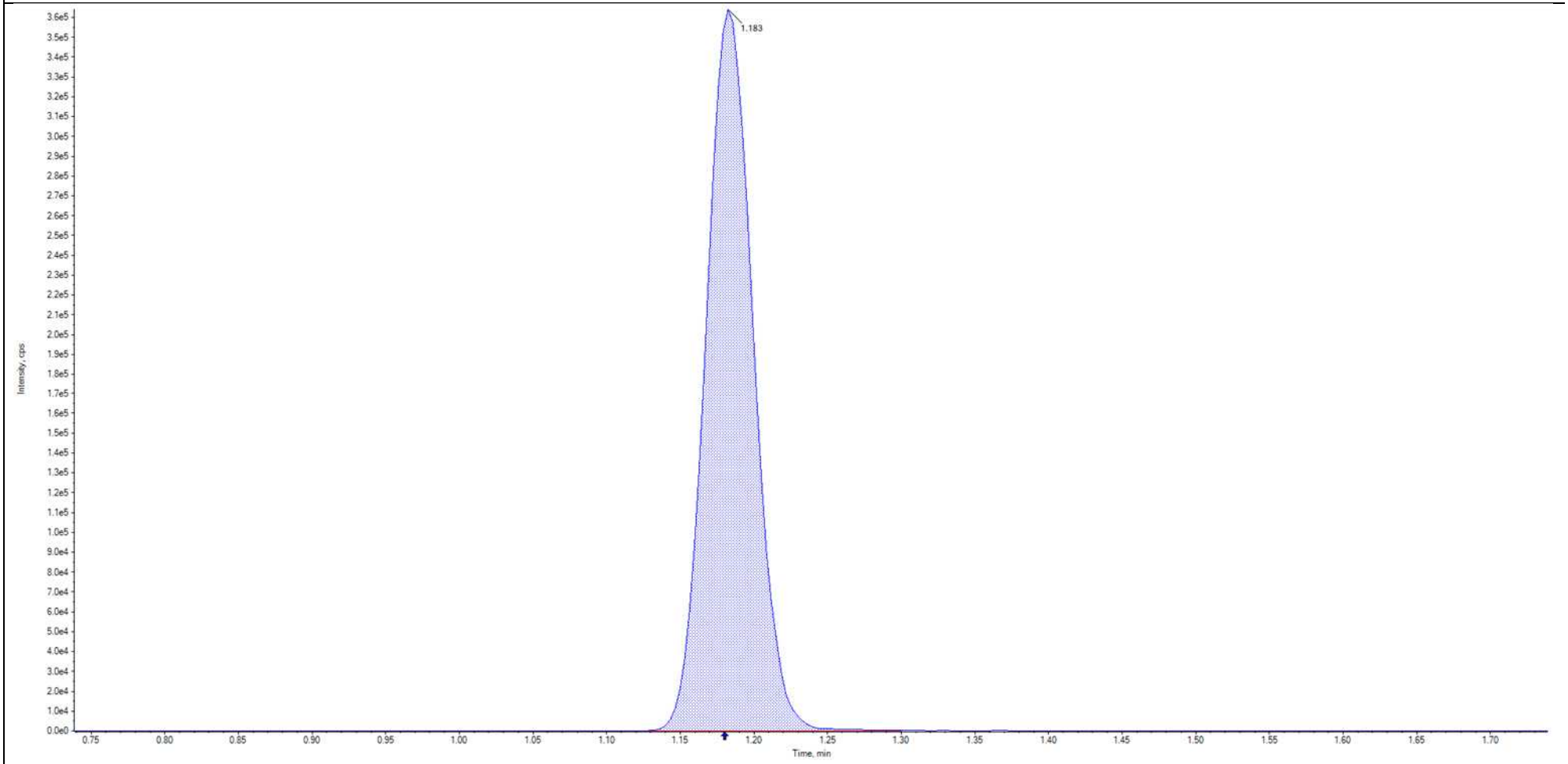
TDCA_2
Sample: WG2035972-1,BSICS S/N:119607.9 Points Across peak:32



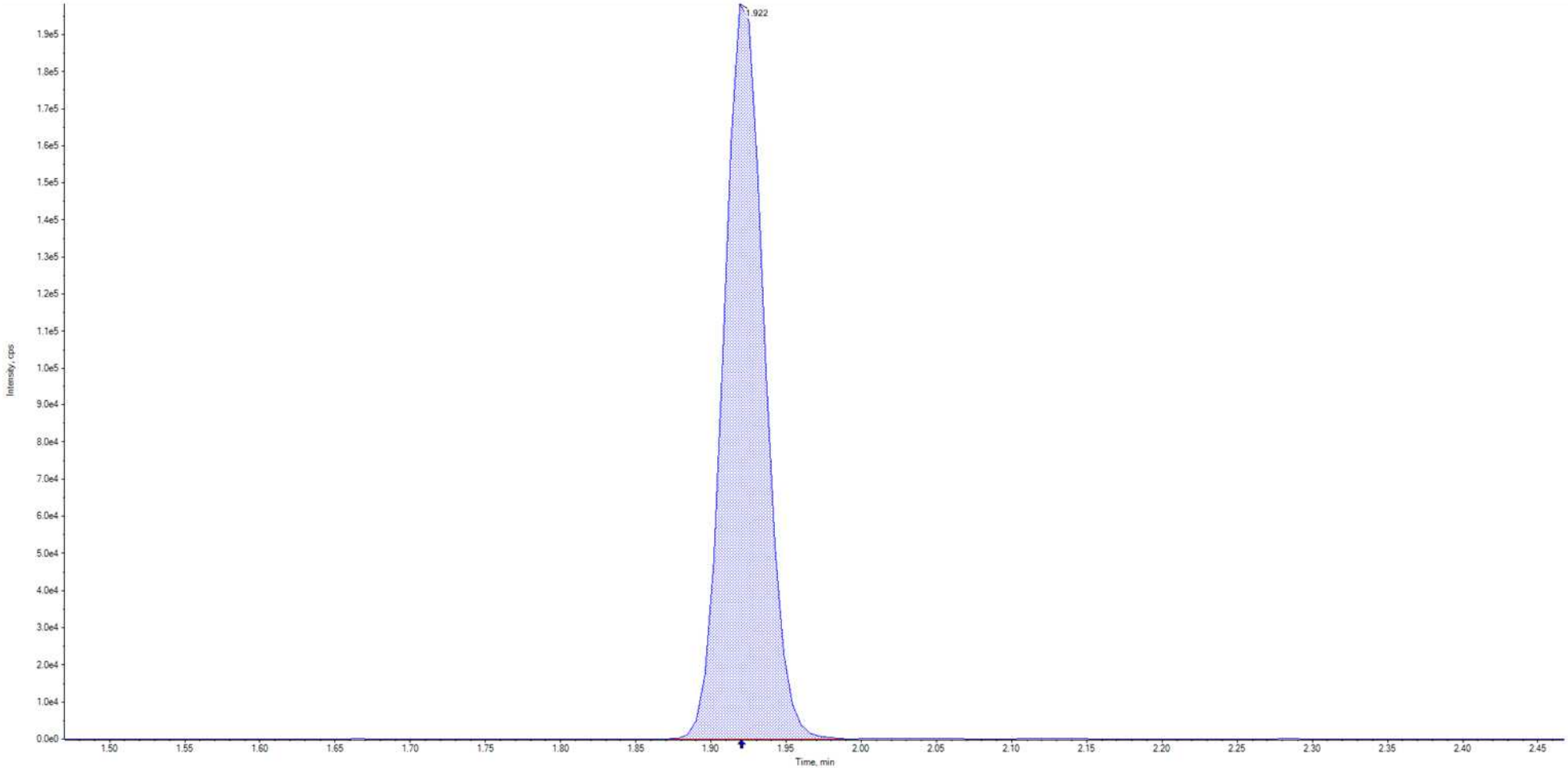
13C4-PFBA
Sample: WG2035972-1,BSICS



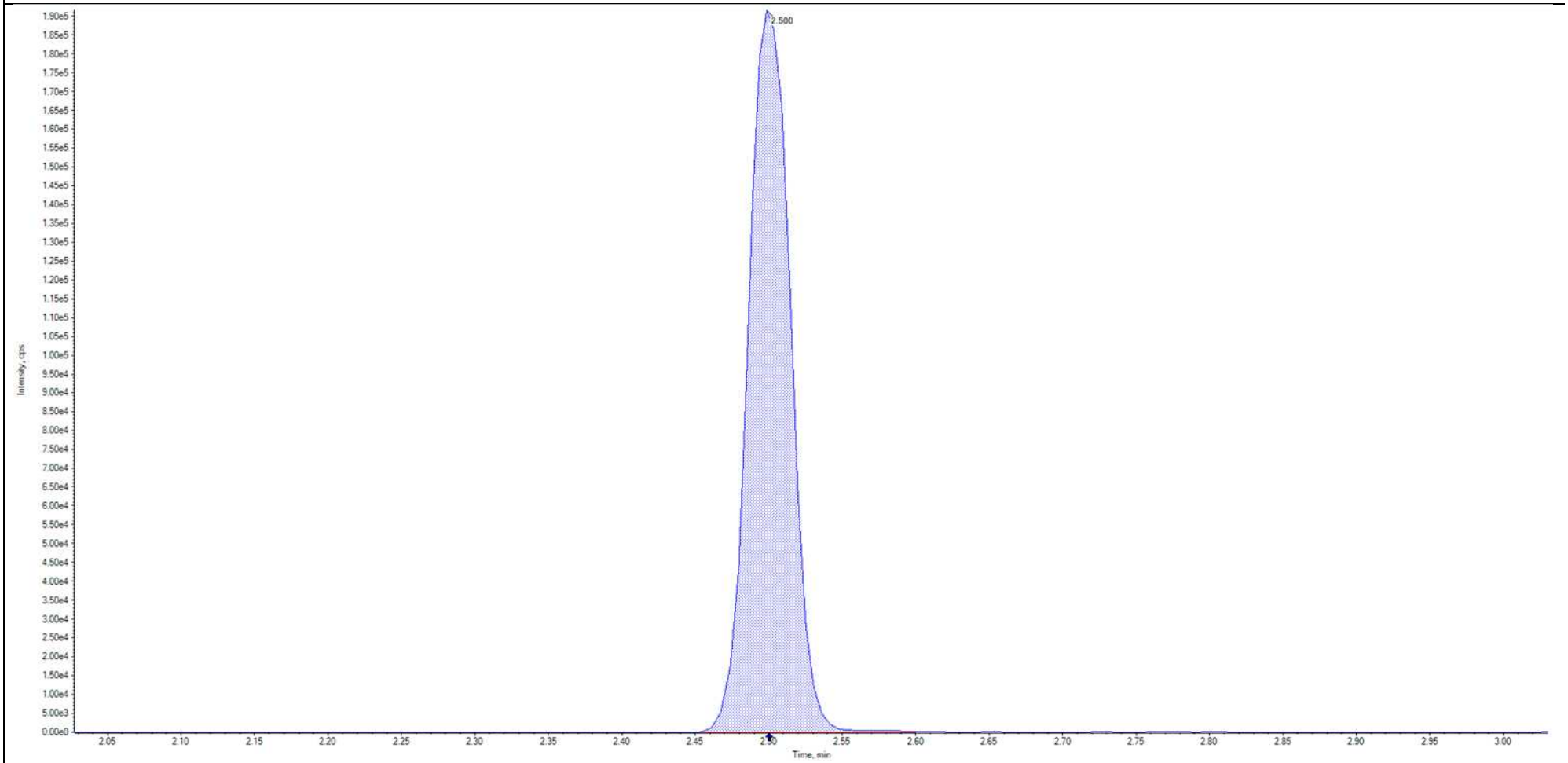
13C5-PFPeA
Sample: WG2035972-1,BSICS



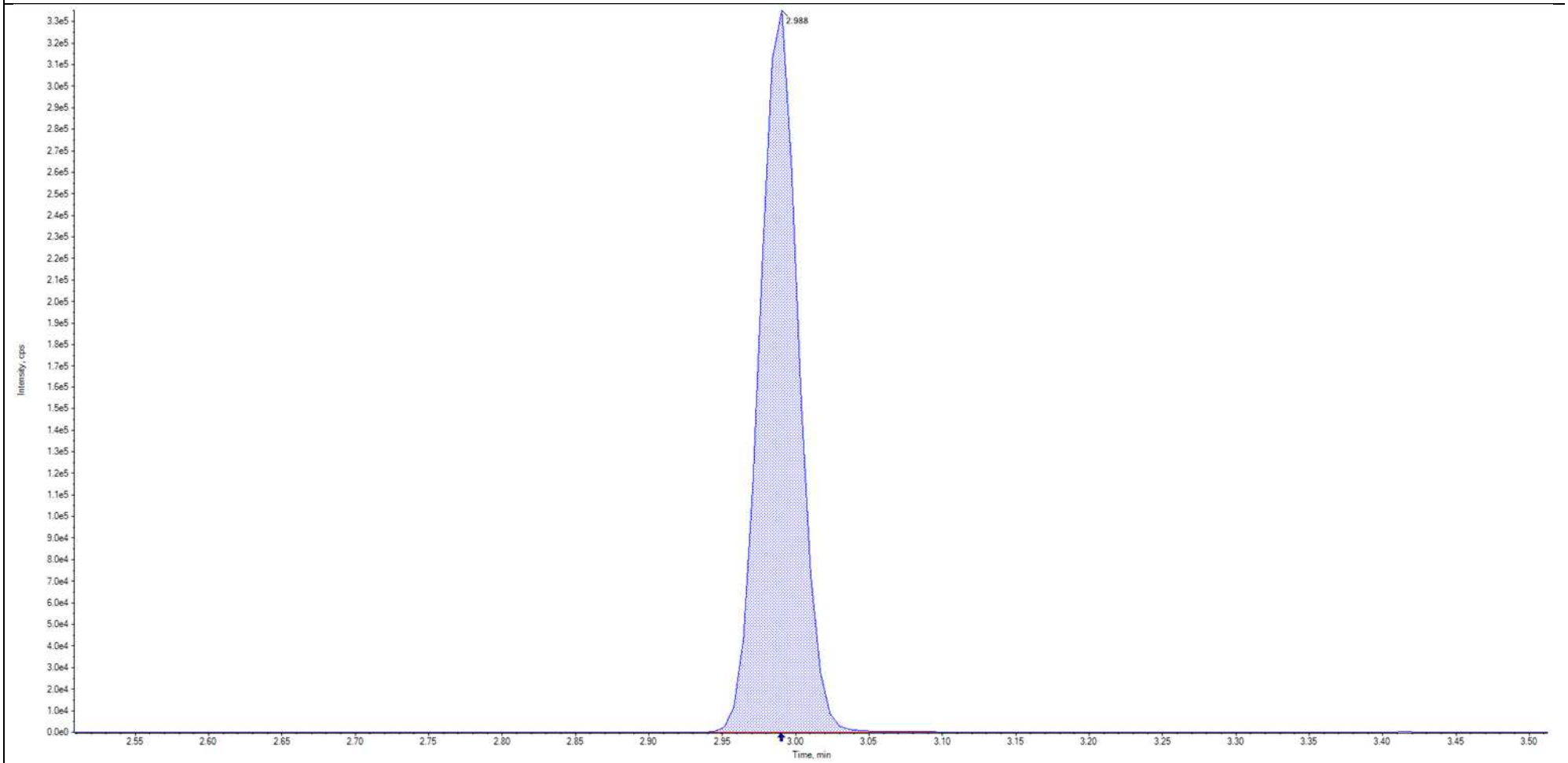
13C5-PFHxA
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13C4-PFHpA
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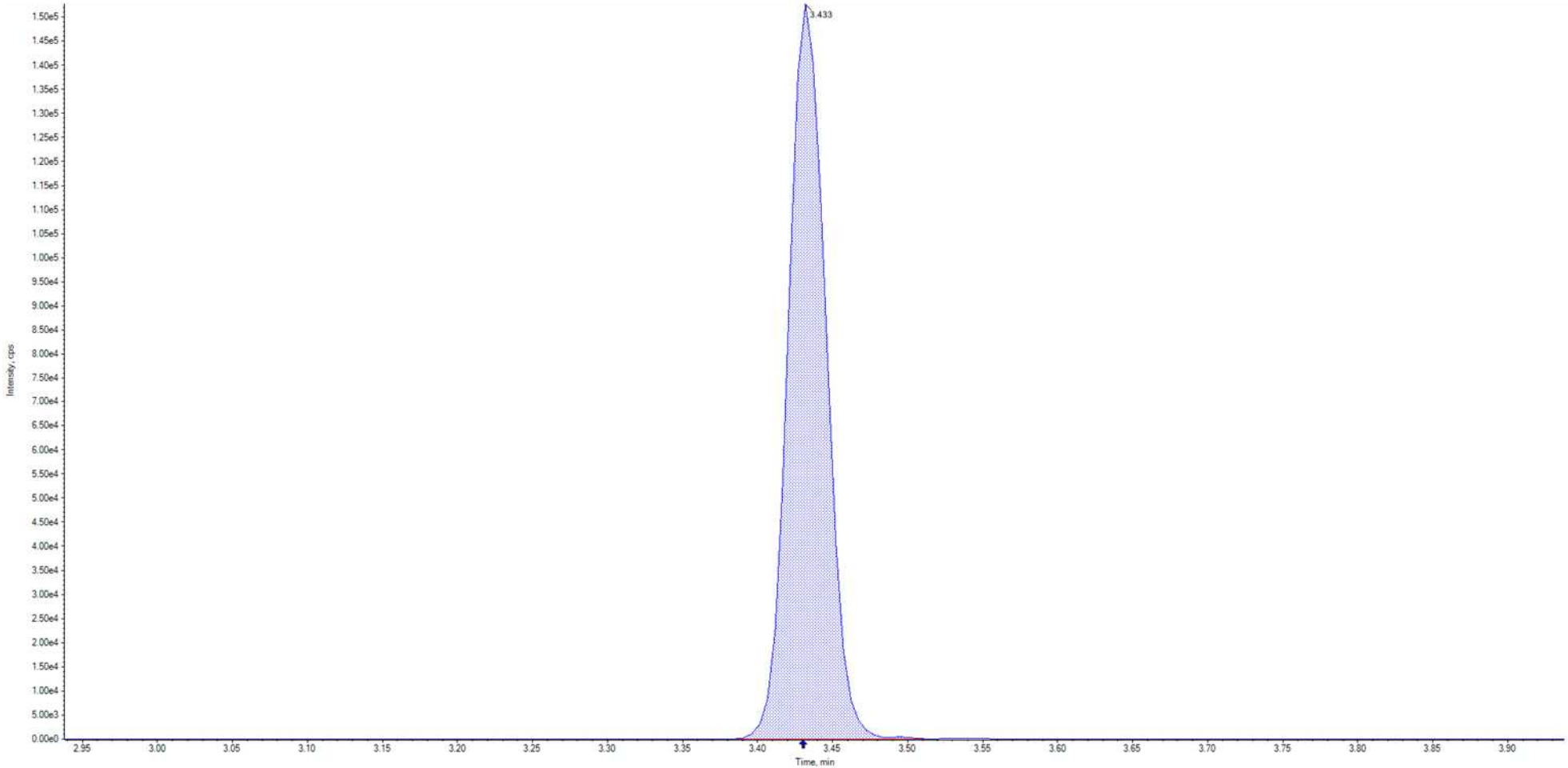


13C8-PFOA
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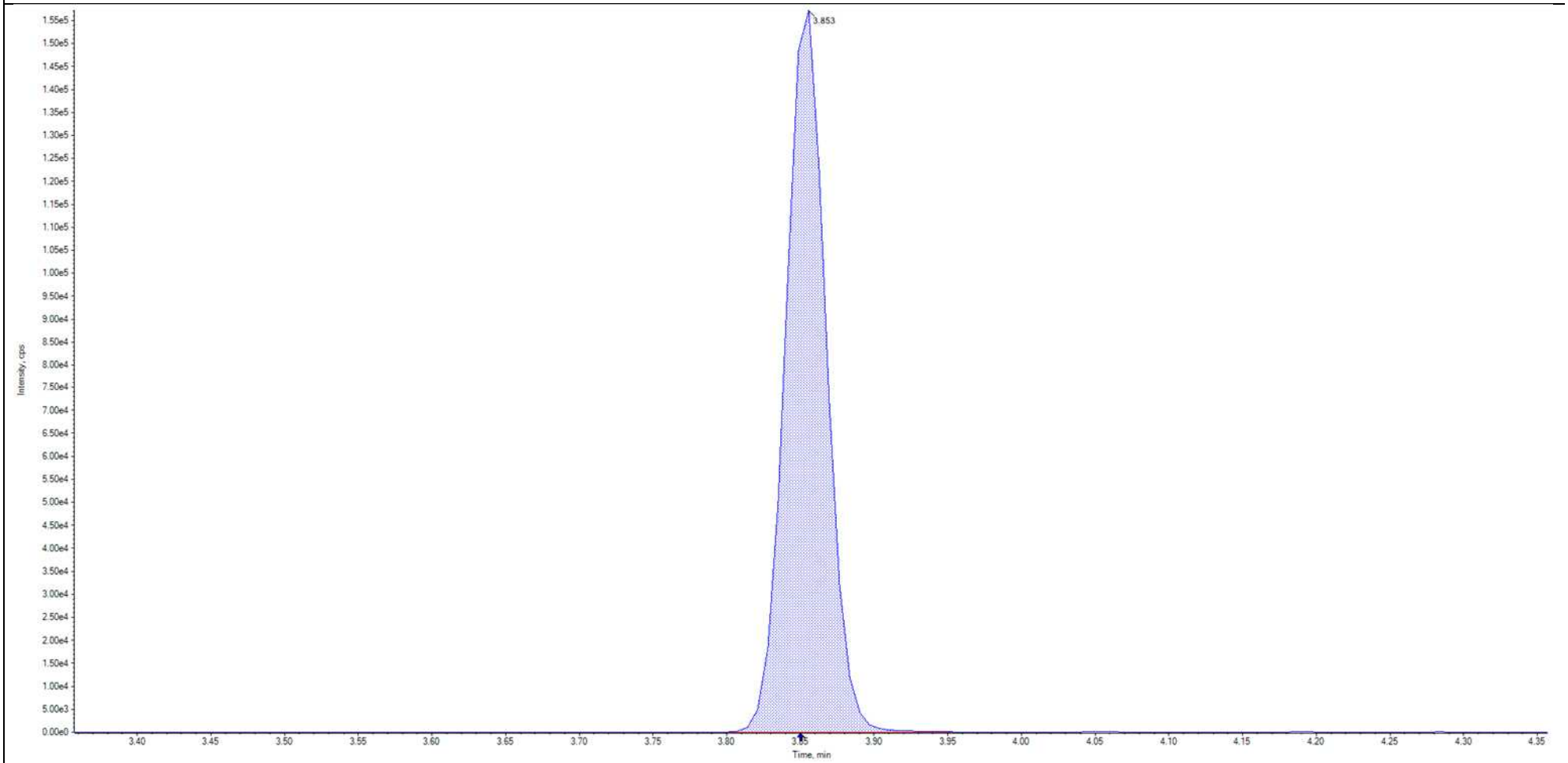


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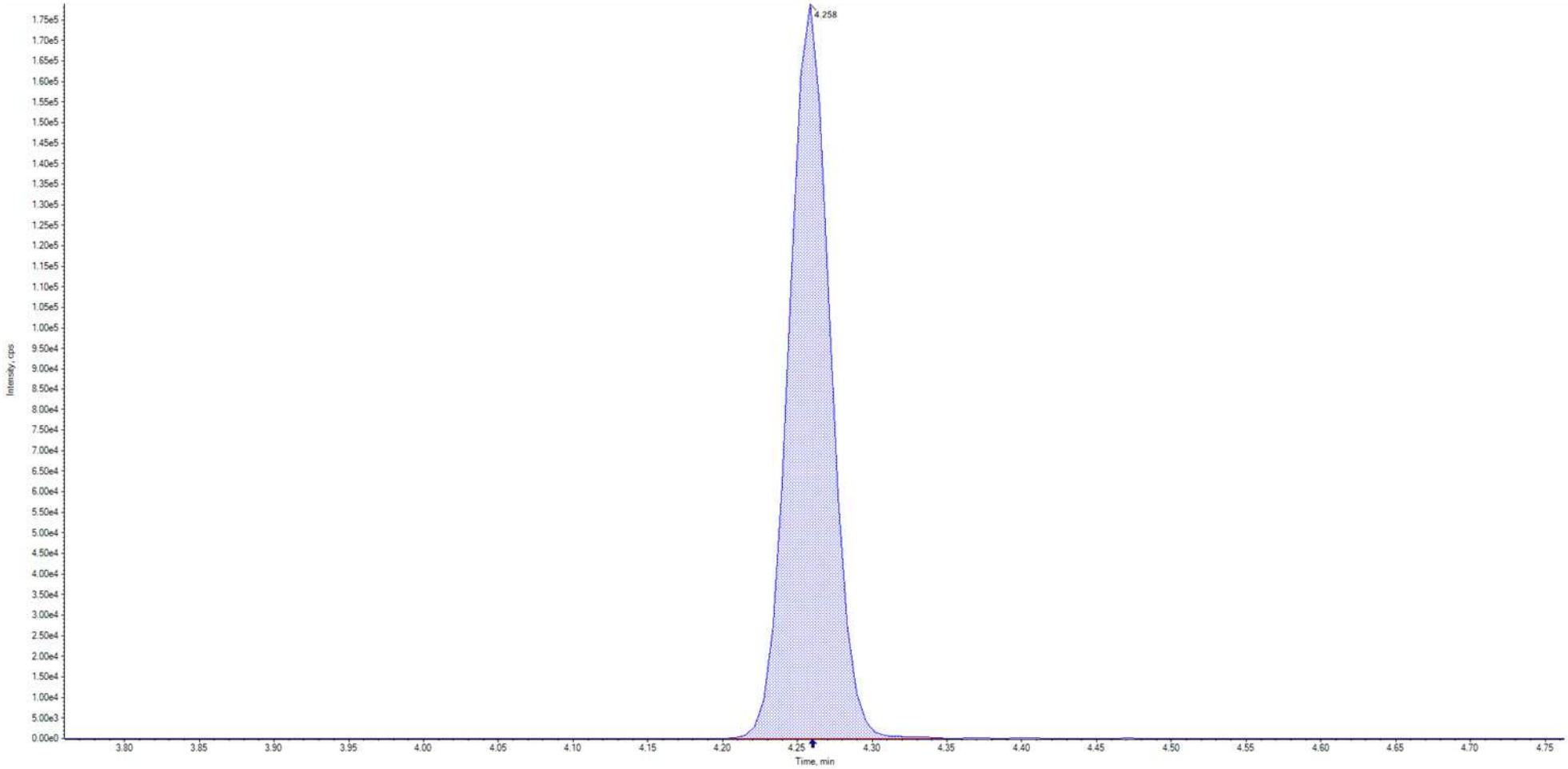
13C9-PFNA
Sample: WG2035972-1,BSICS



13C6-PFDA
Sample: WG2035972-1,BSICS

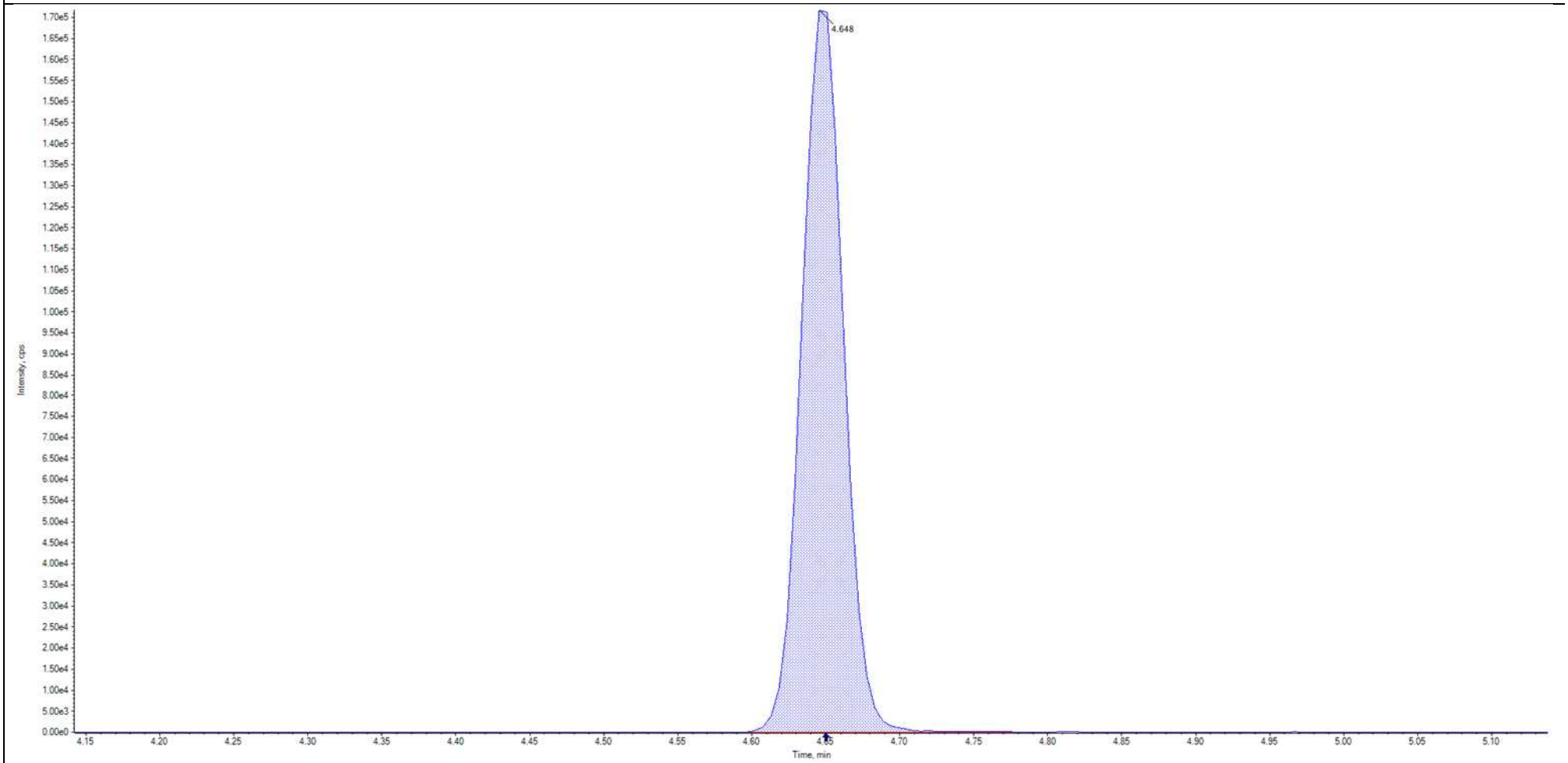


13C7-PFUnA
Sample: WG2035972-1,BSICS



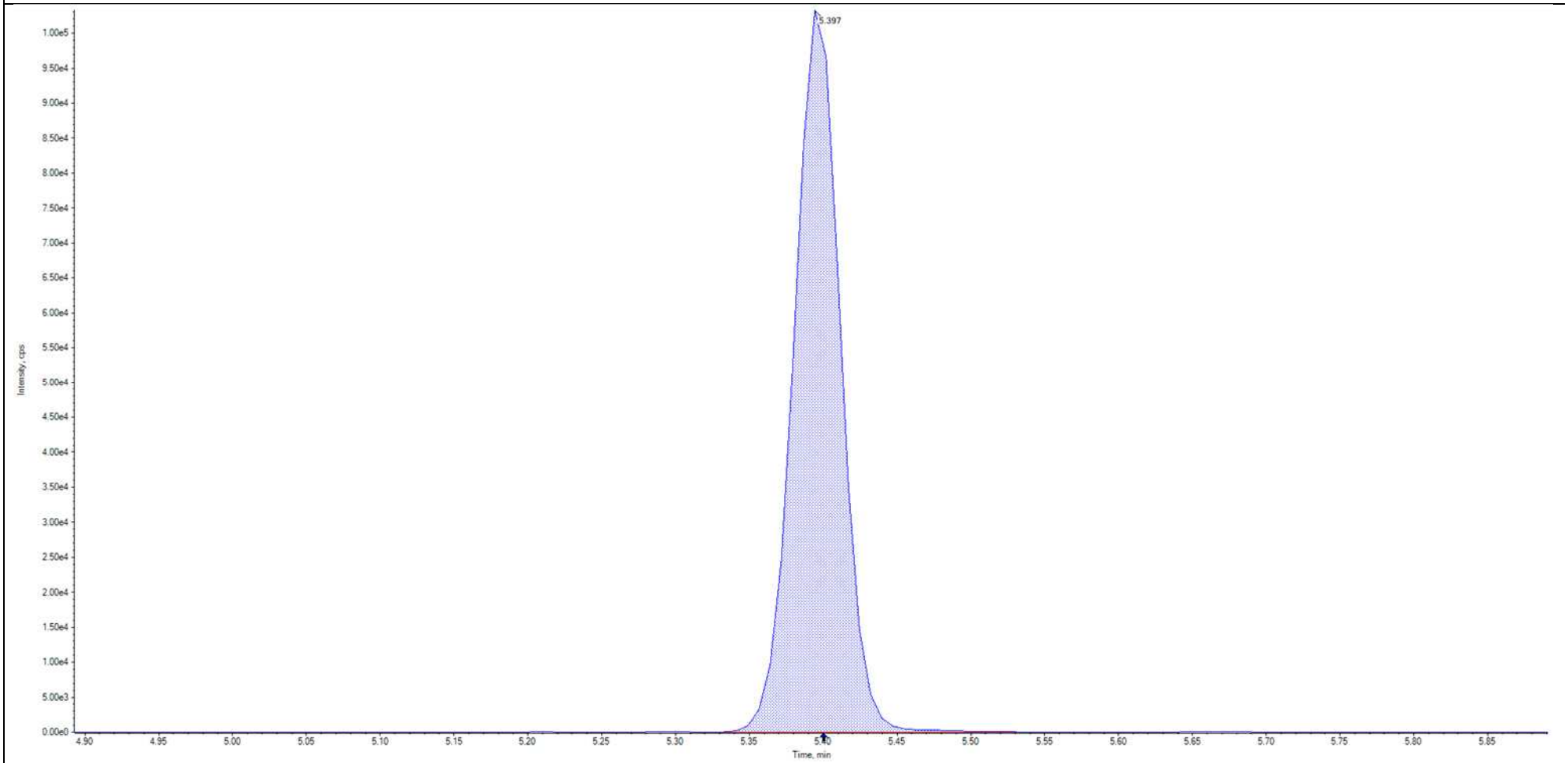
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Alpha Analytical LLC
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13C2-PFDoA
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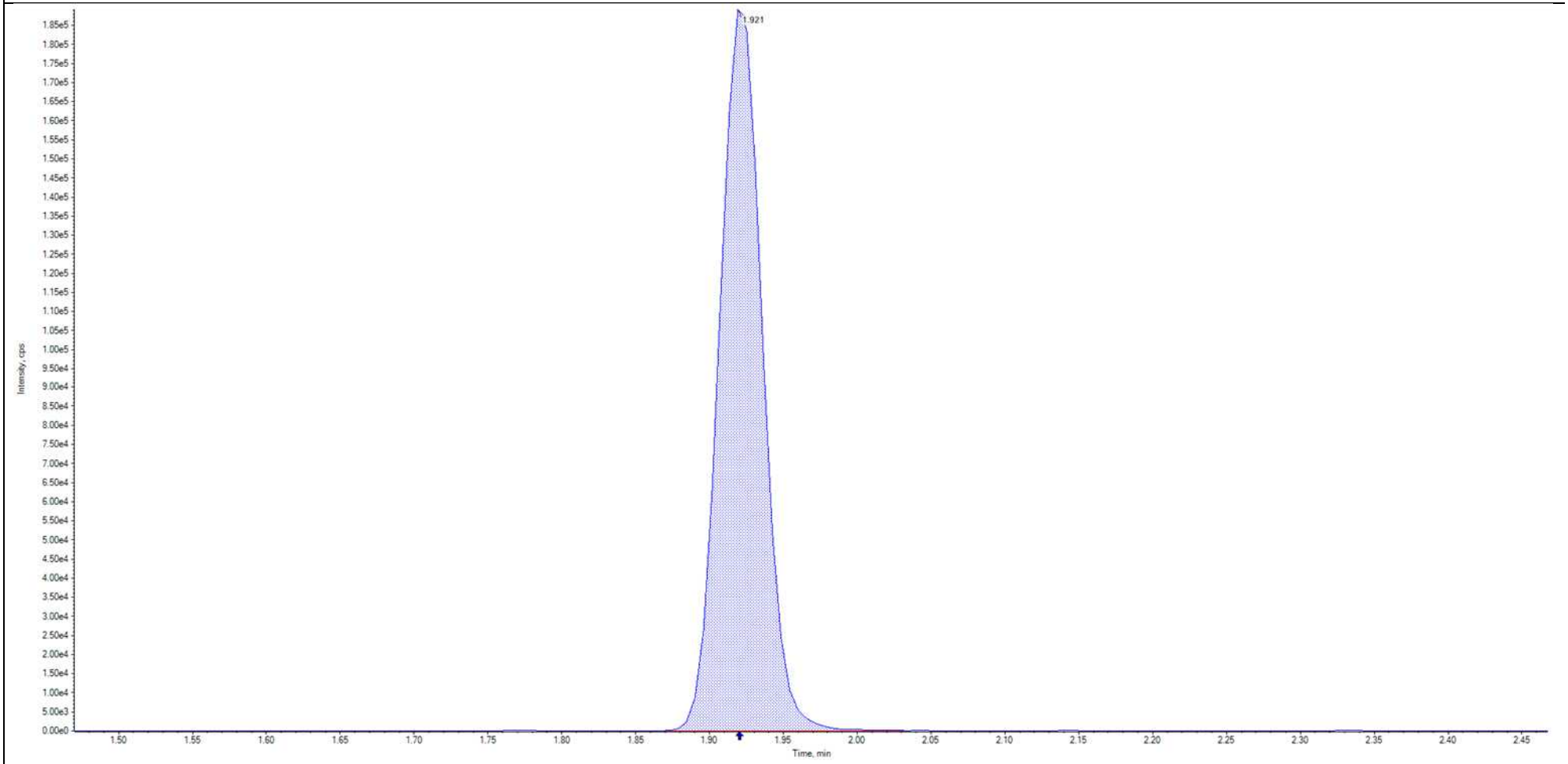


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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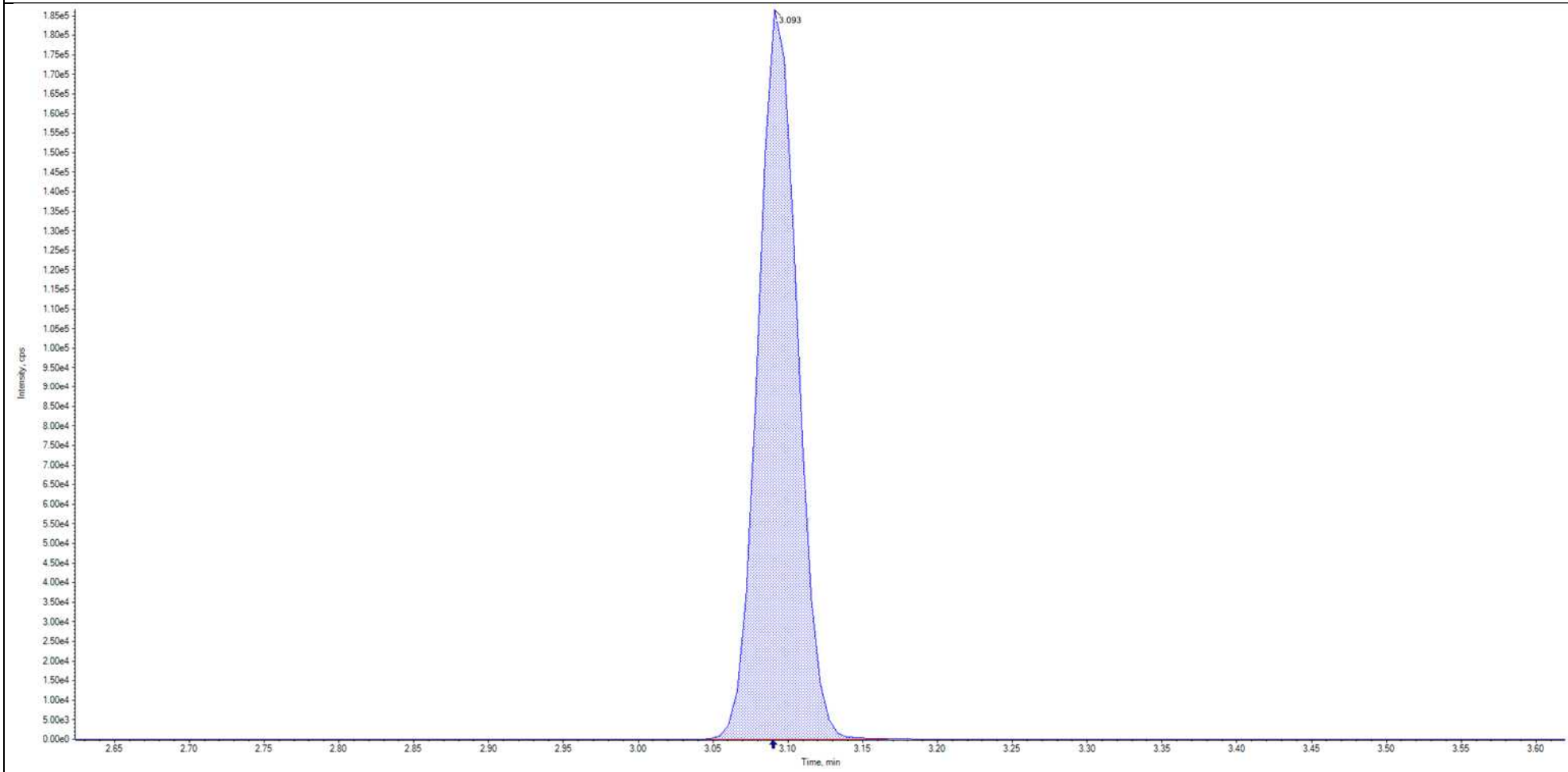
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Sample: WG2035972-1,BSICS



13C3-PFBS
Sample: WG2035972-1,BSICS

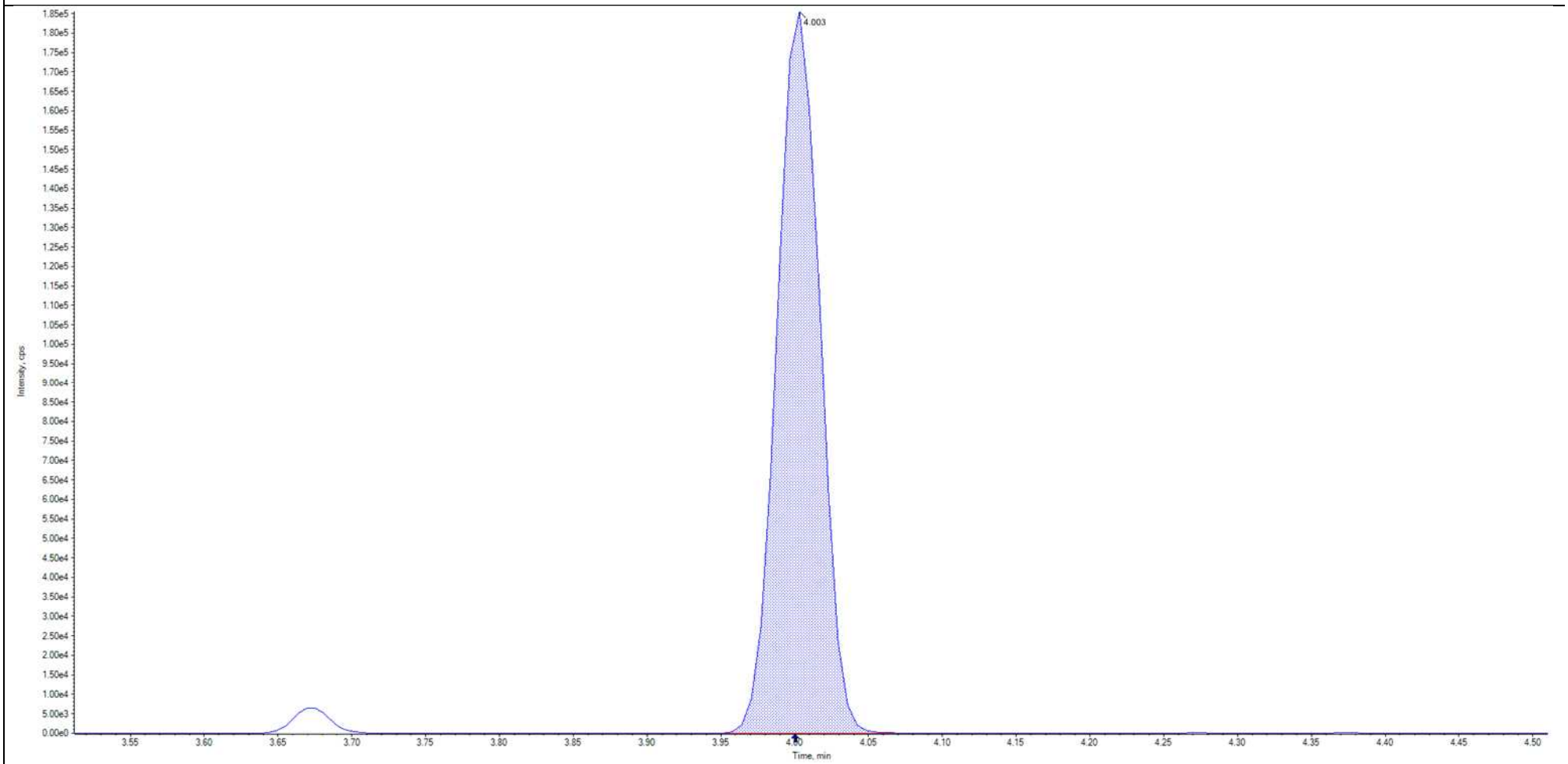


13C3-PFHxS
Sample: WG2035972-1,BSICS



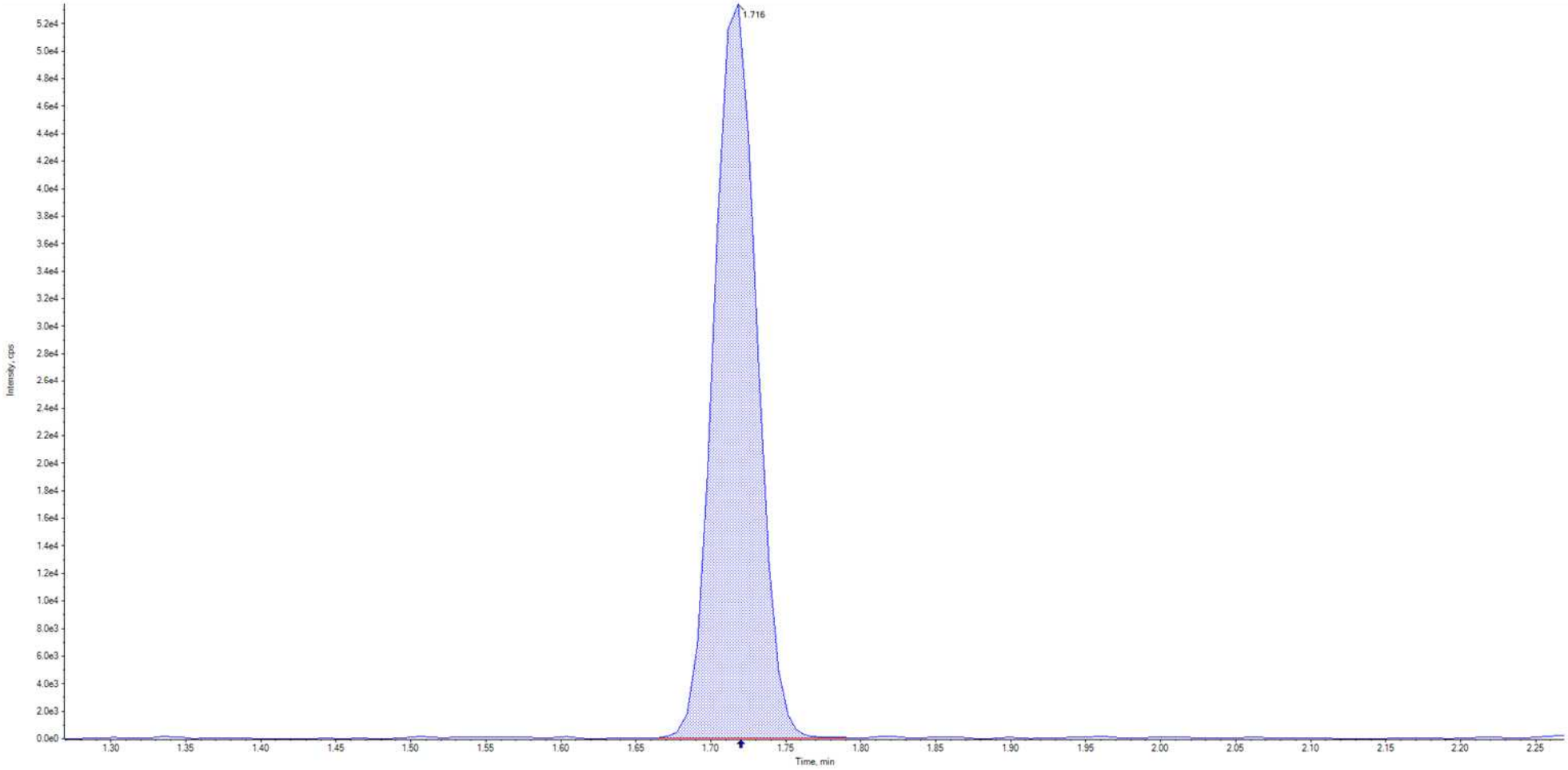
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

13C8-PFOS
Sample: WG2035972-1,BSICS

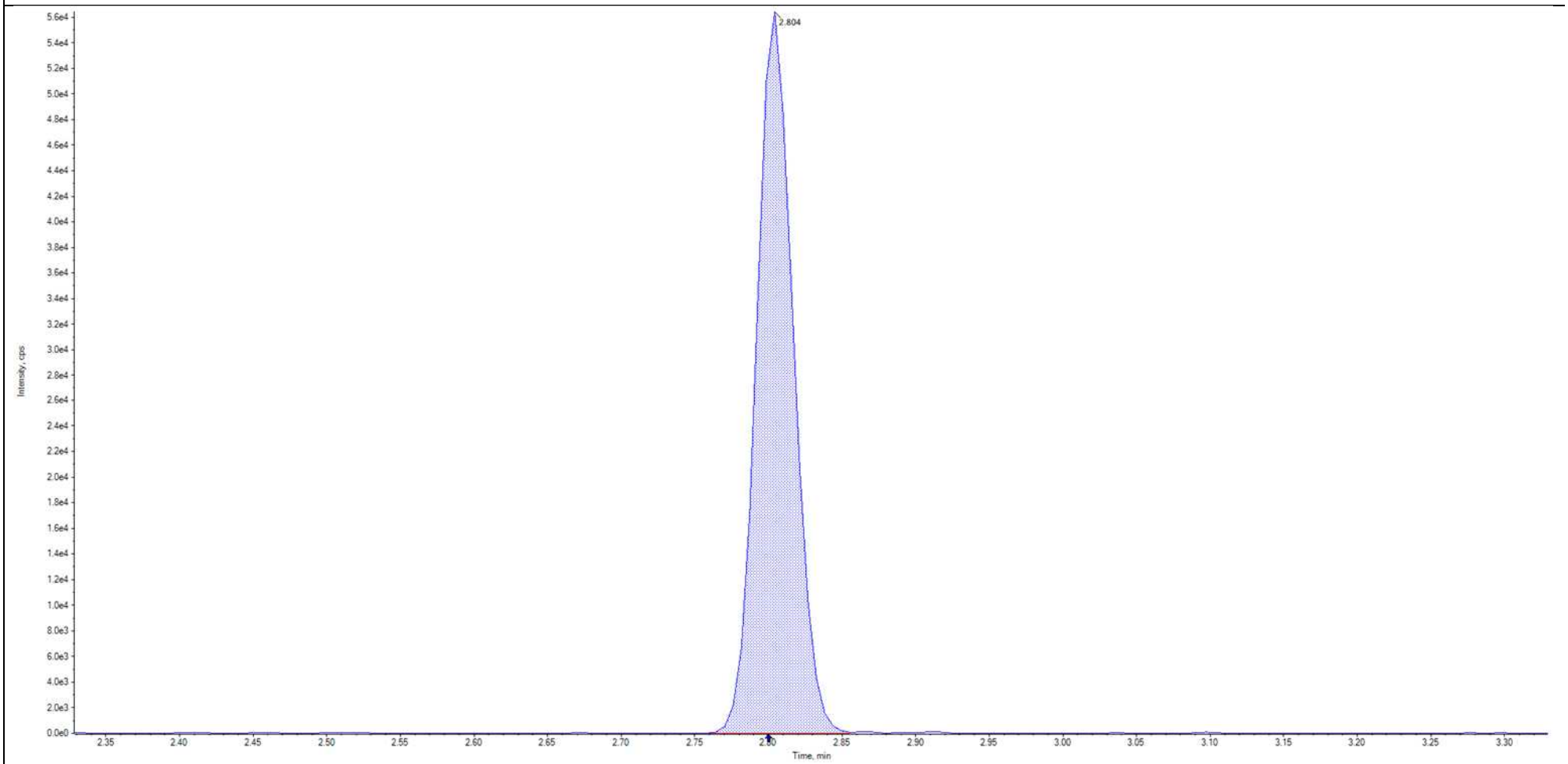


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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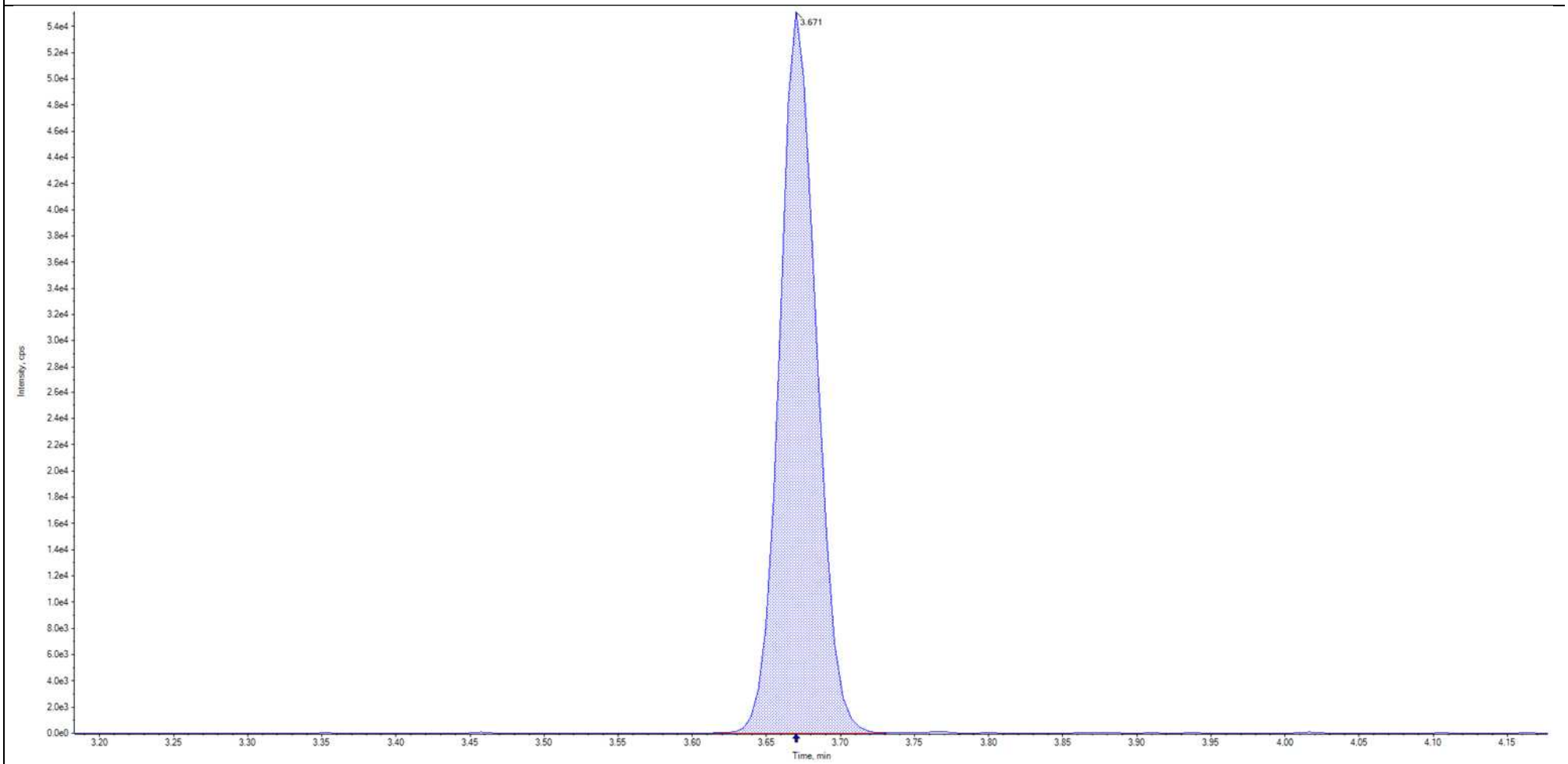
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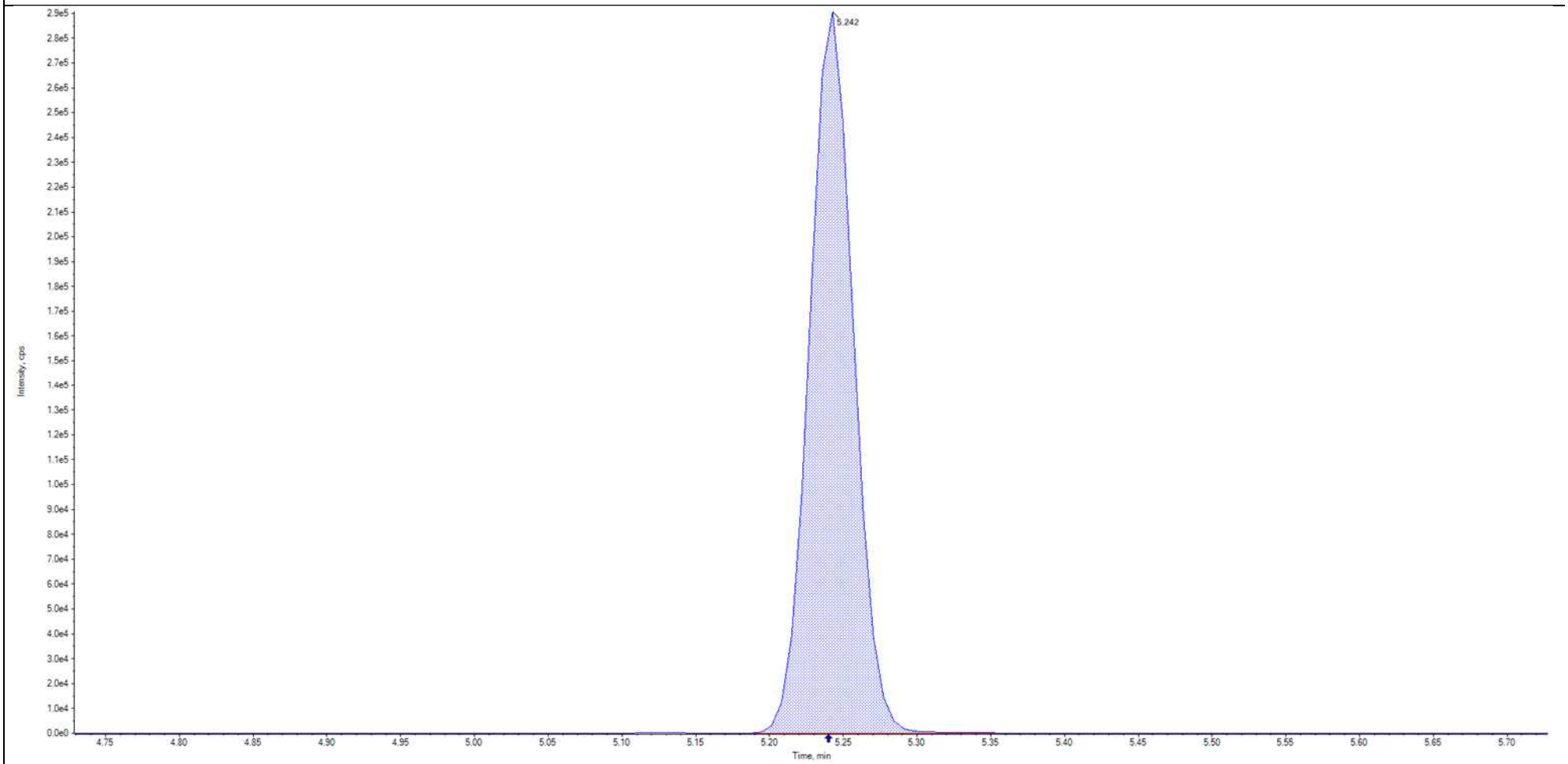
13C2-6:2FTS
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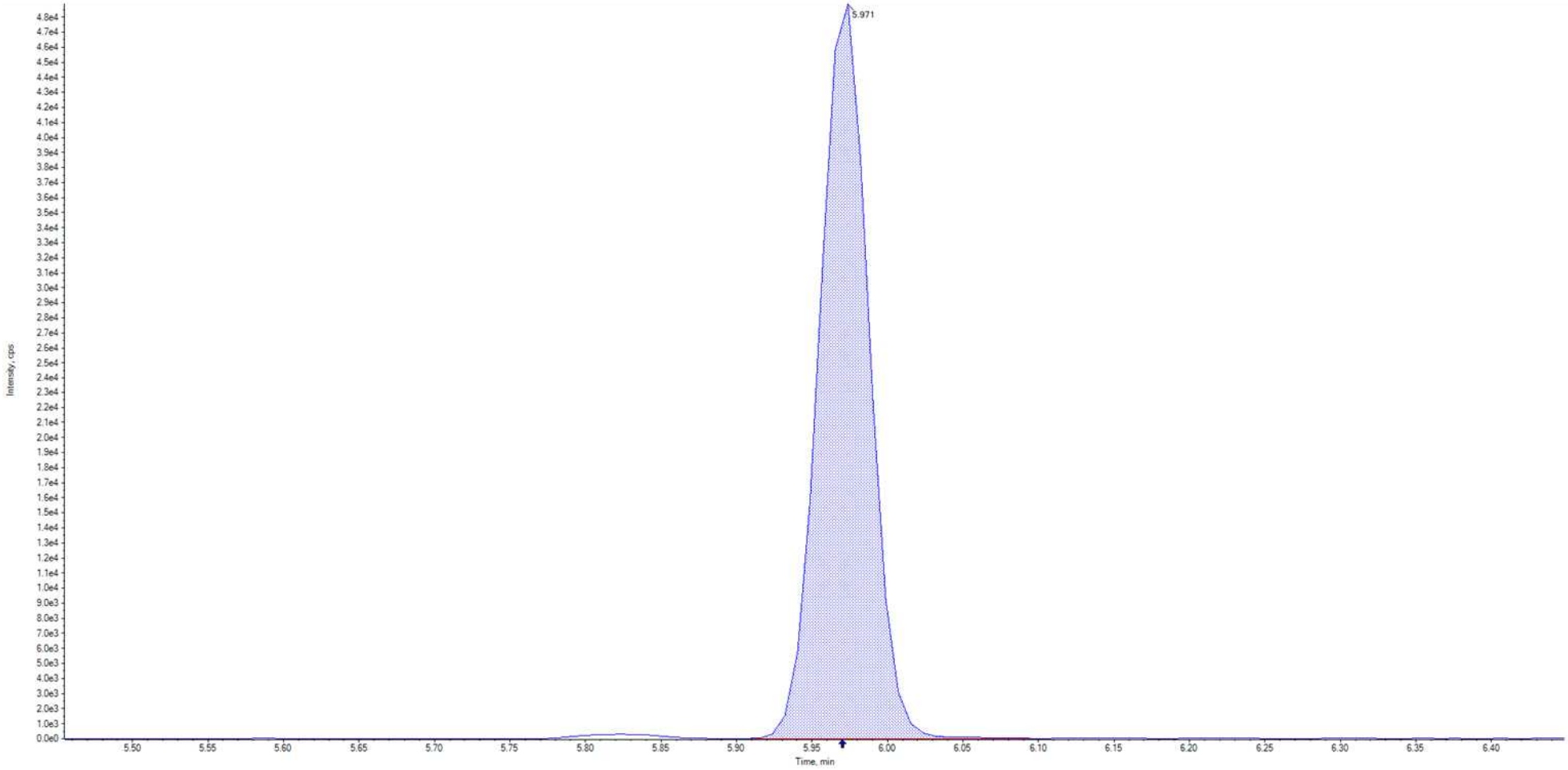
13C2-8:2FTS
Sample: WG2035972-1,BSICS



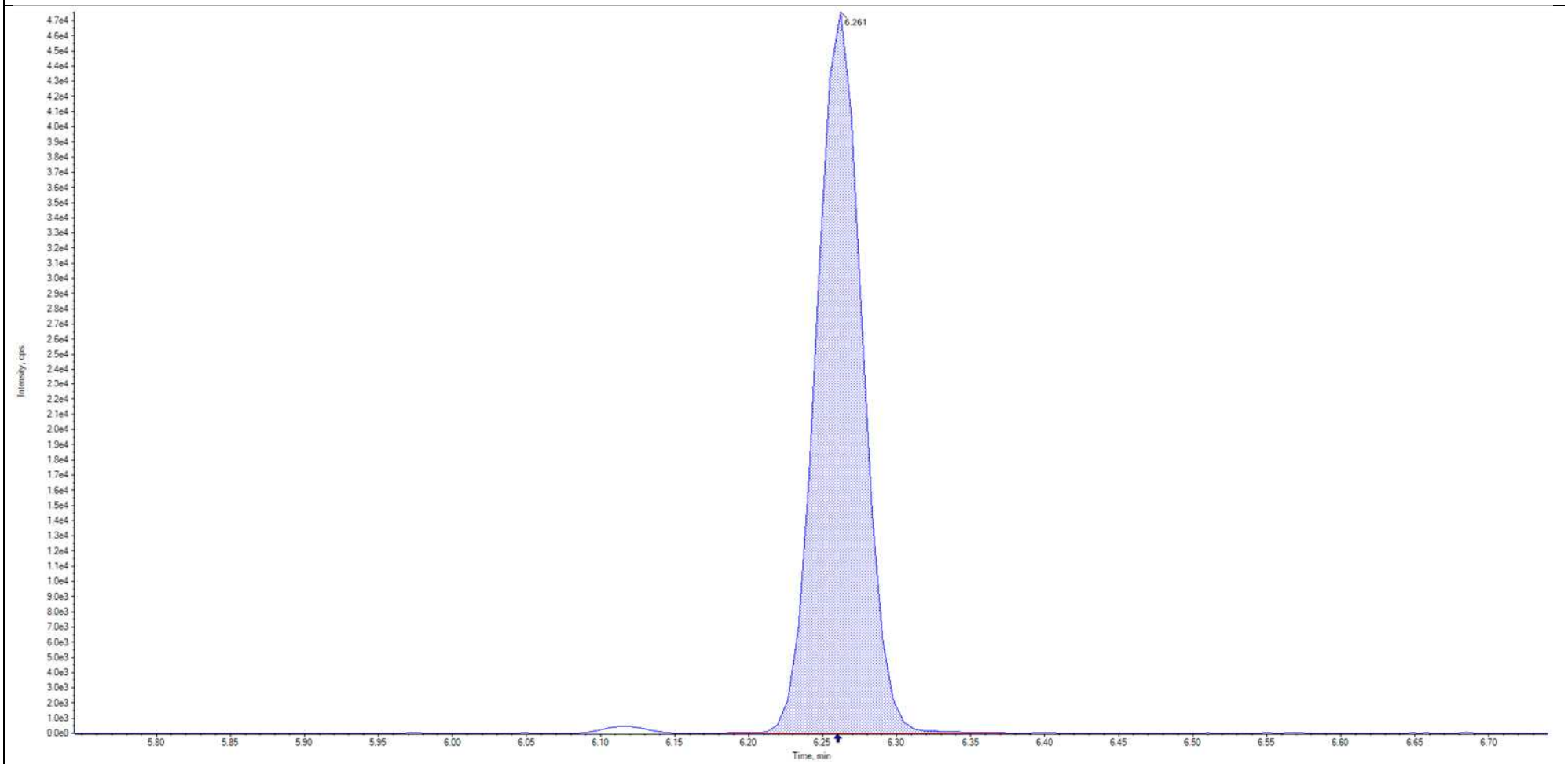
13C8-PFOSA
Sample: WG2035972-1,BSICS



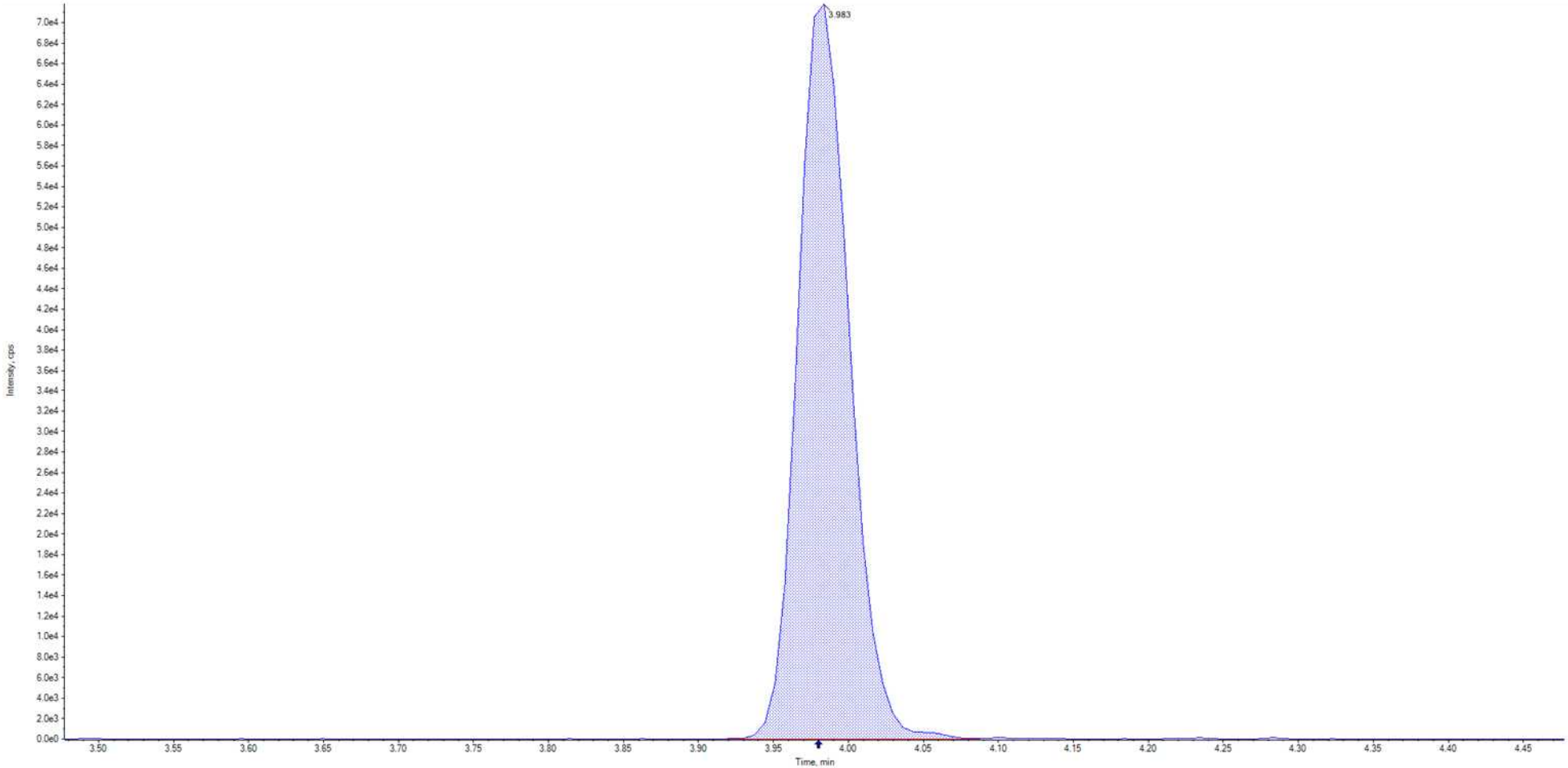
d3-NMeFOSA
Sample: WG2035972-1,BSICS



d5-NEtFOSA
Sample: WG2035972-1,BSICS

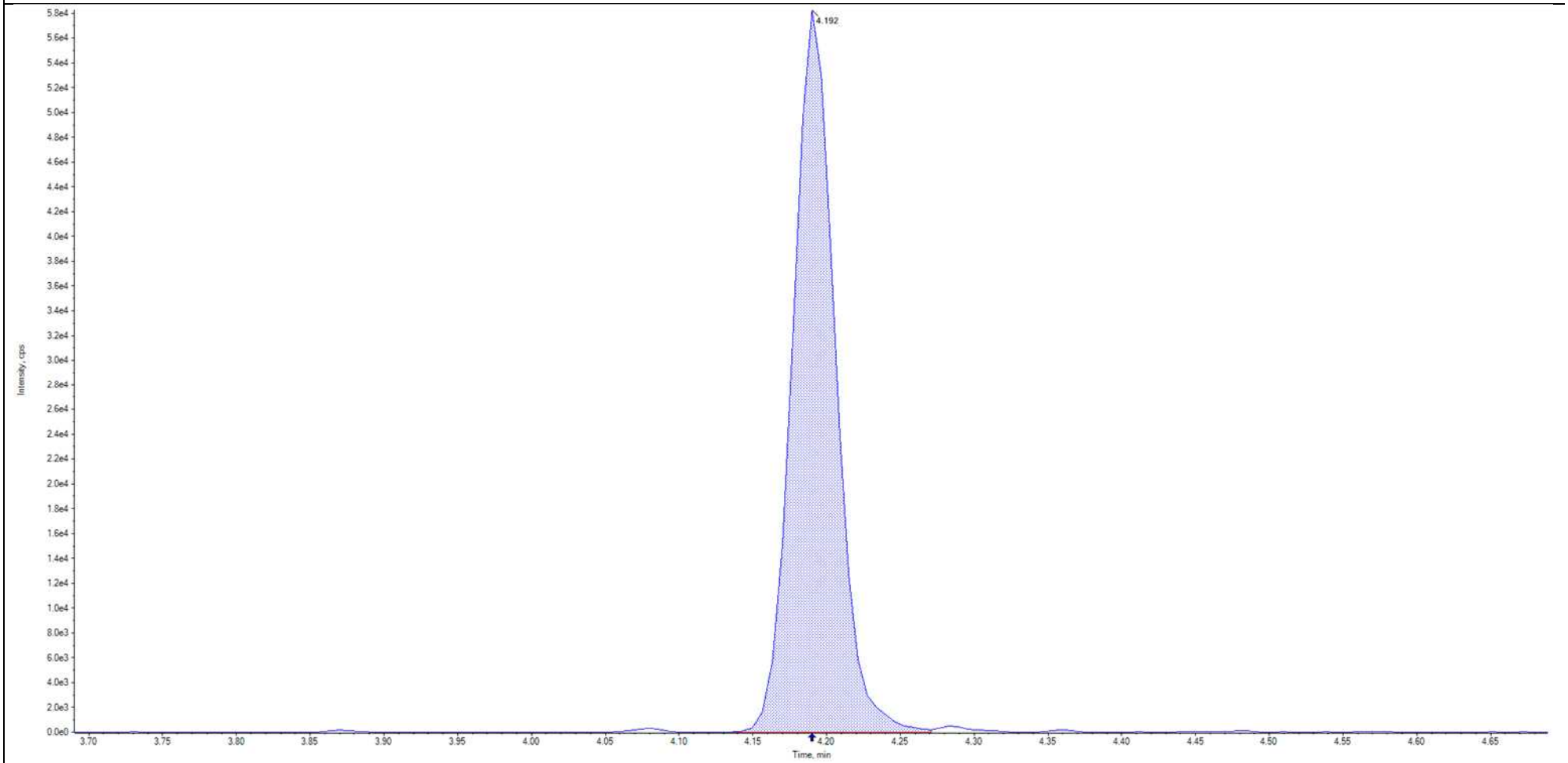


d3-NMeFOSAA
Sample: WG2035972-1,BSICS

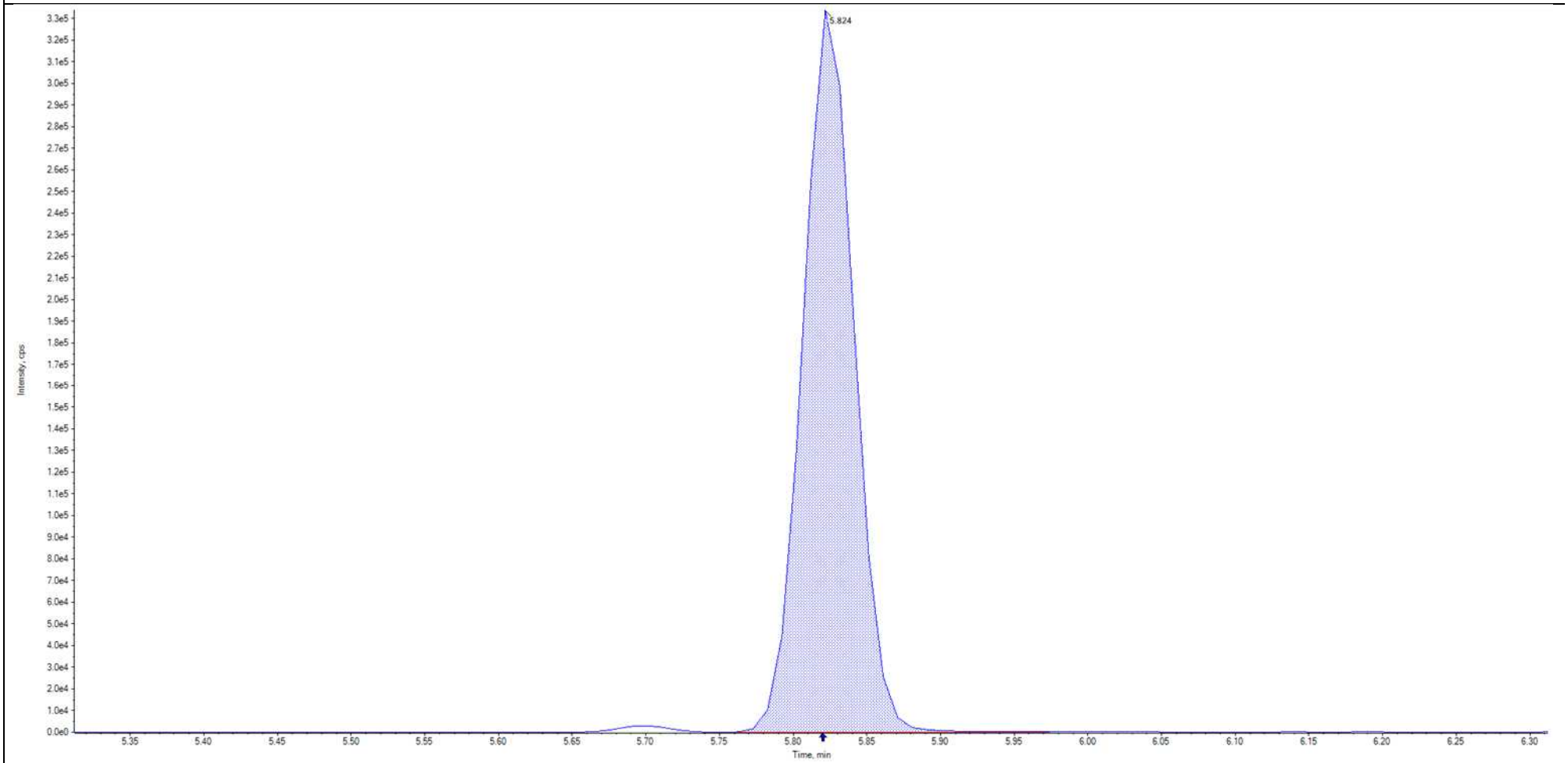


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Alpha Analytical LLC
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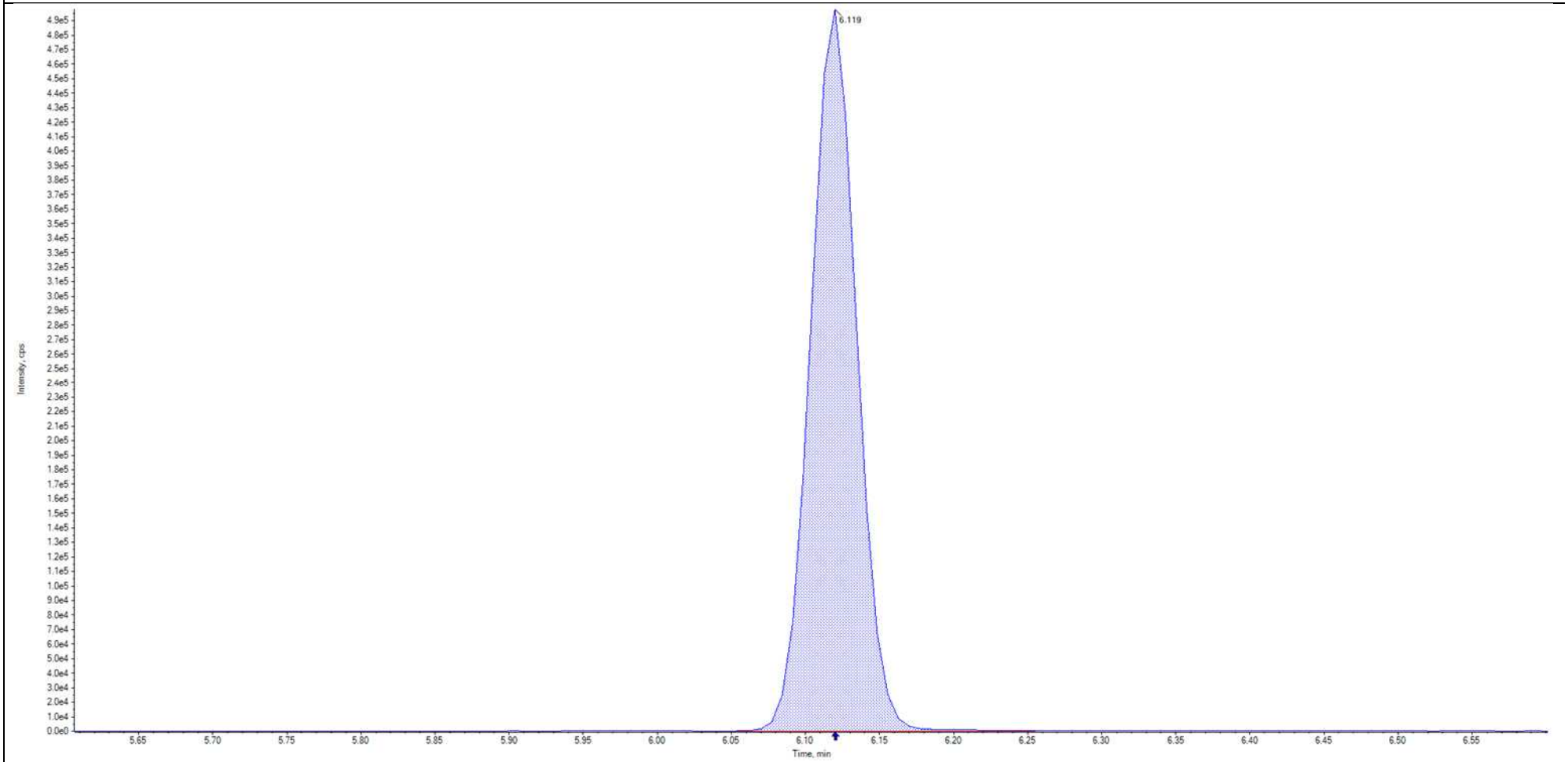
d5-NEtFOSAA
Sample: WG2035972-1,BSICS



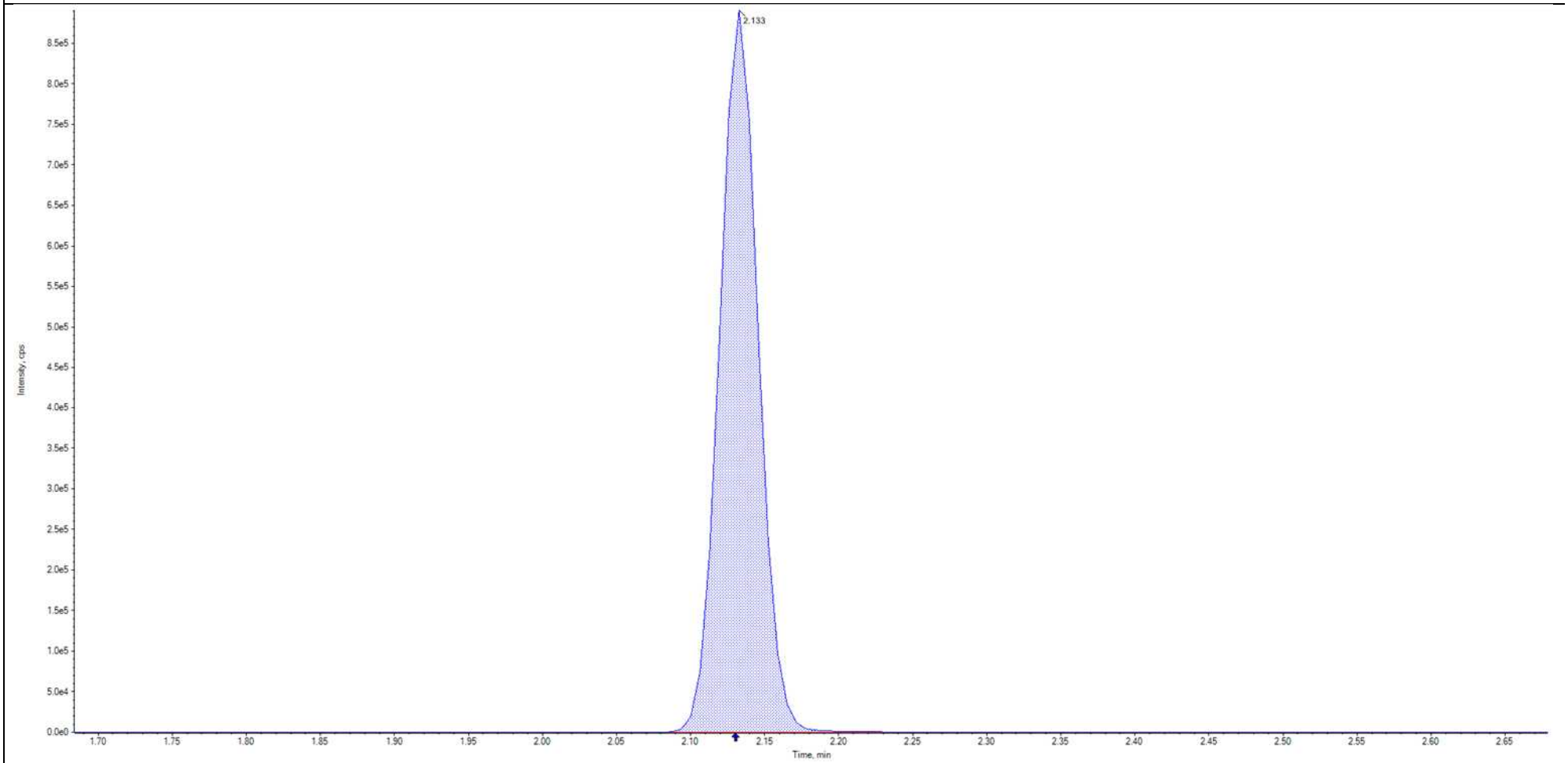
d7-NMeFOSE
Sample: WG2035972-1,BSICS



d9-NEtFOSE
Sample: WG2035972-1,BSICS

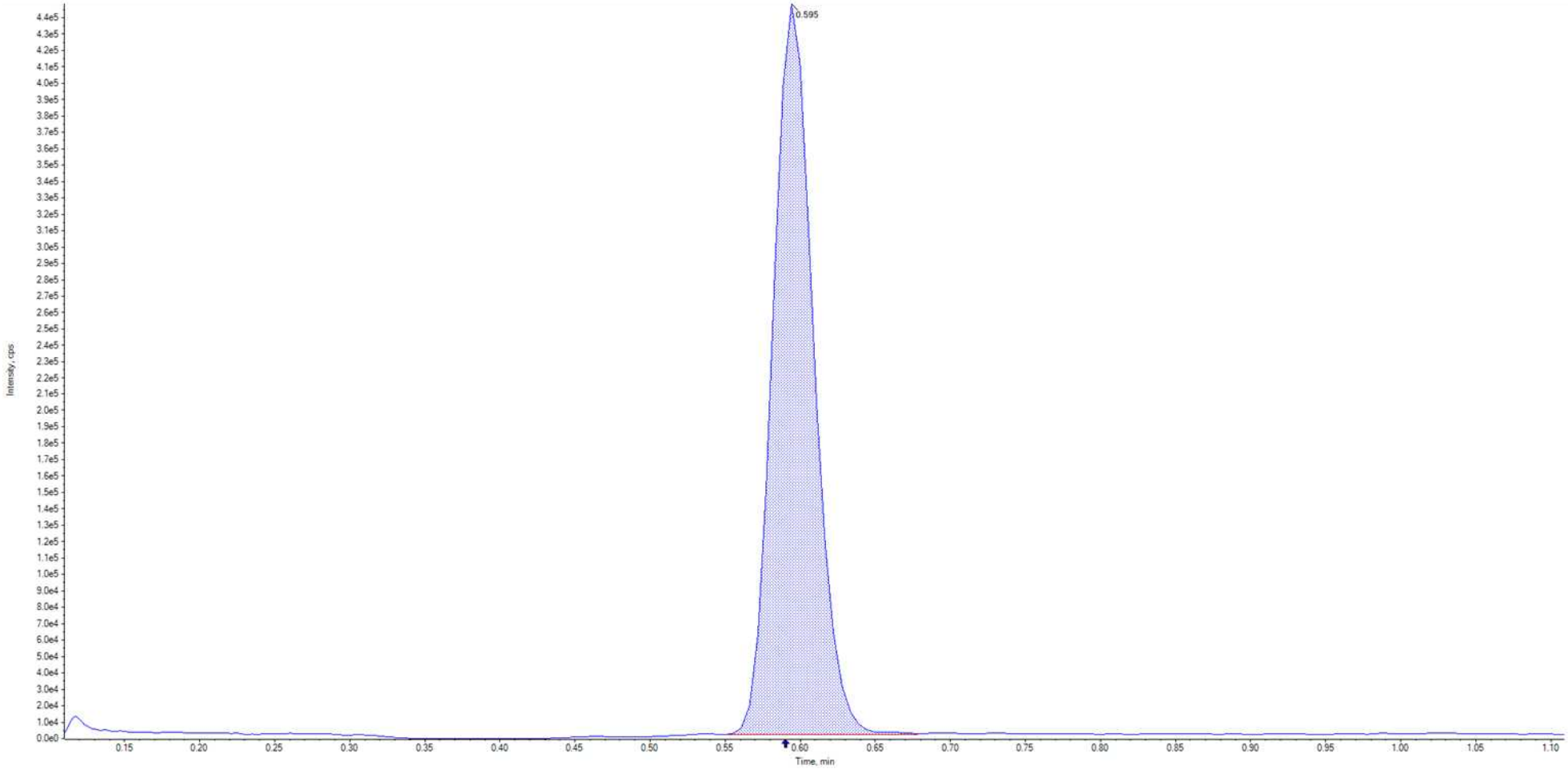


13C3-HFPO-DA
Sample: WG2035972-1,BSICS

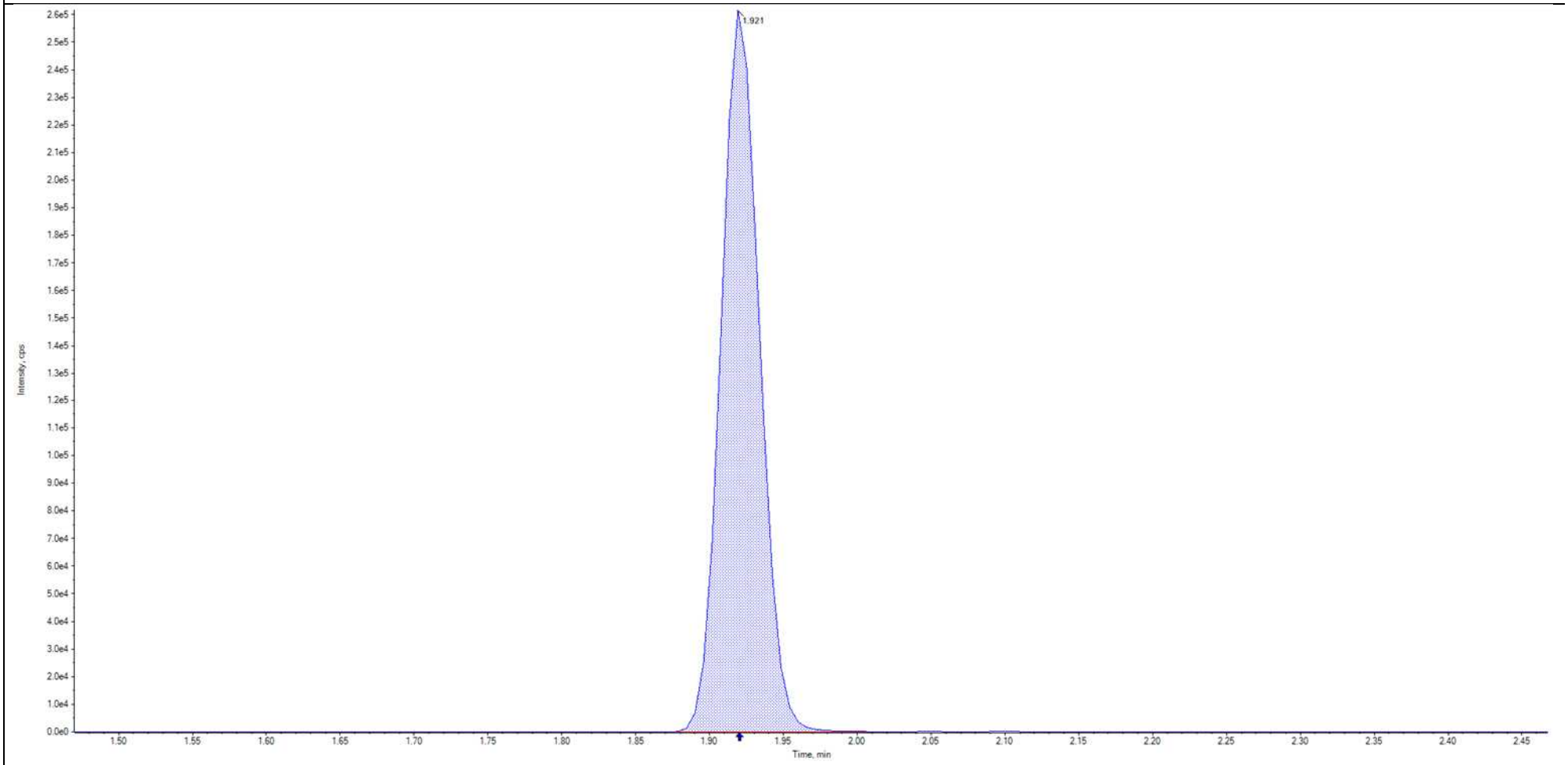


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13C3-PFBA
Sample: WG2035972-1,BSICS

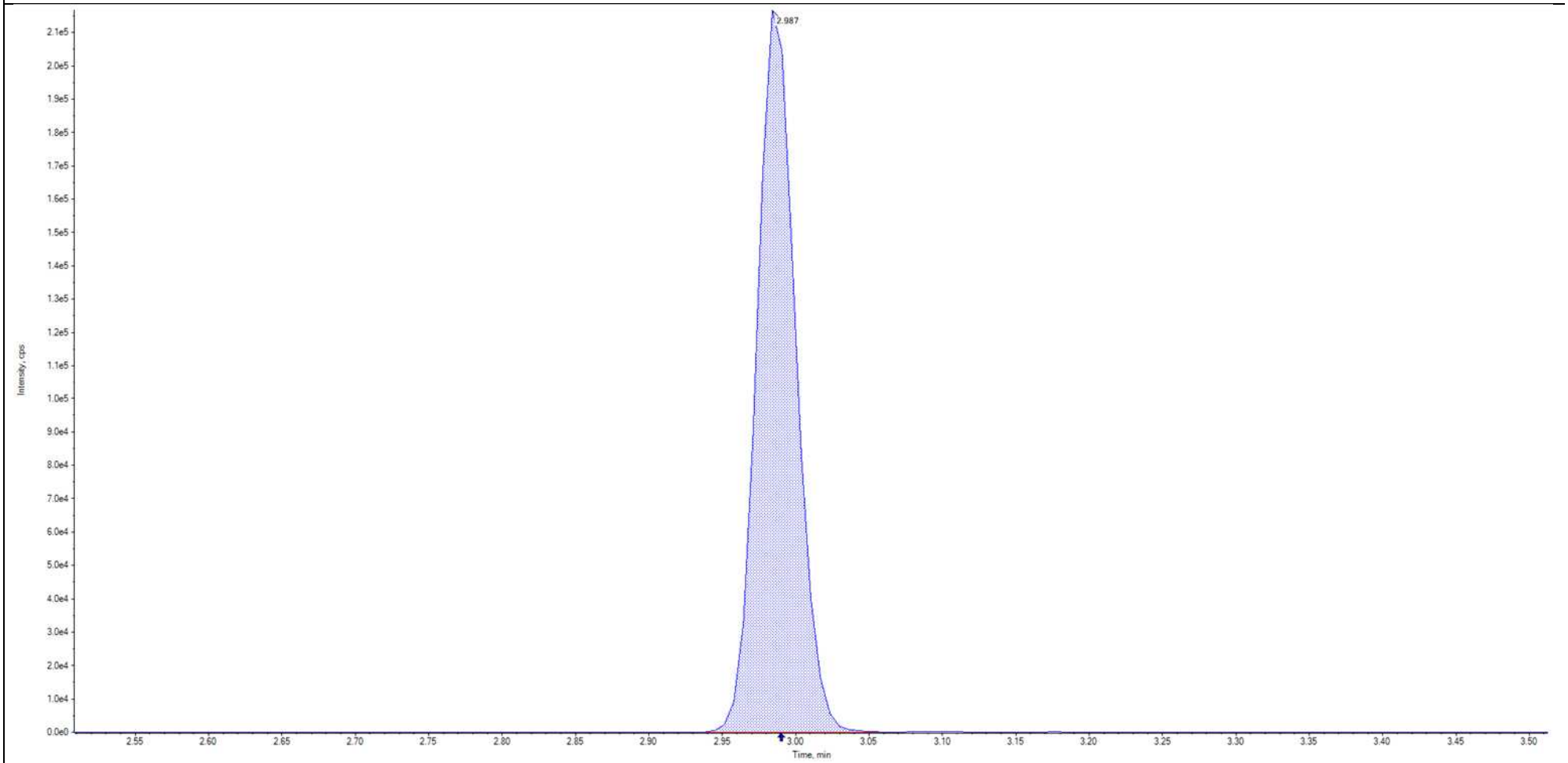


13C2-PFHxA
Sample: WG2035972-1,BSICS



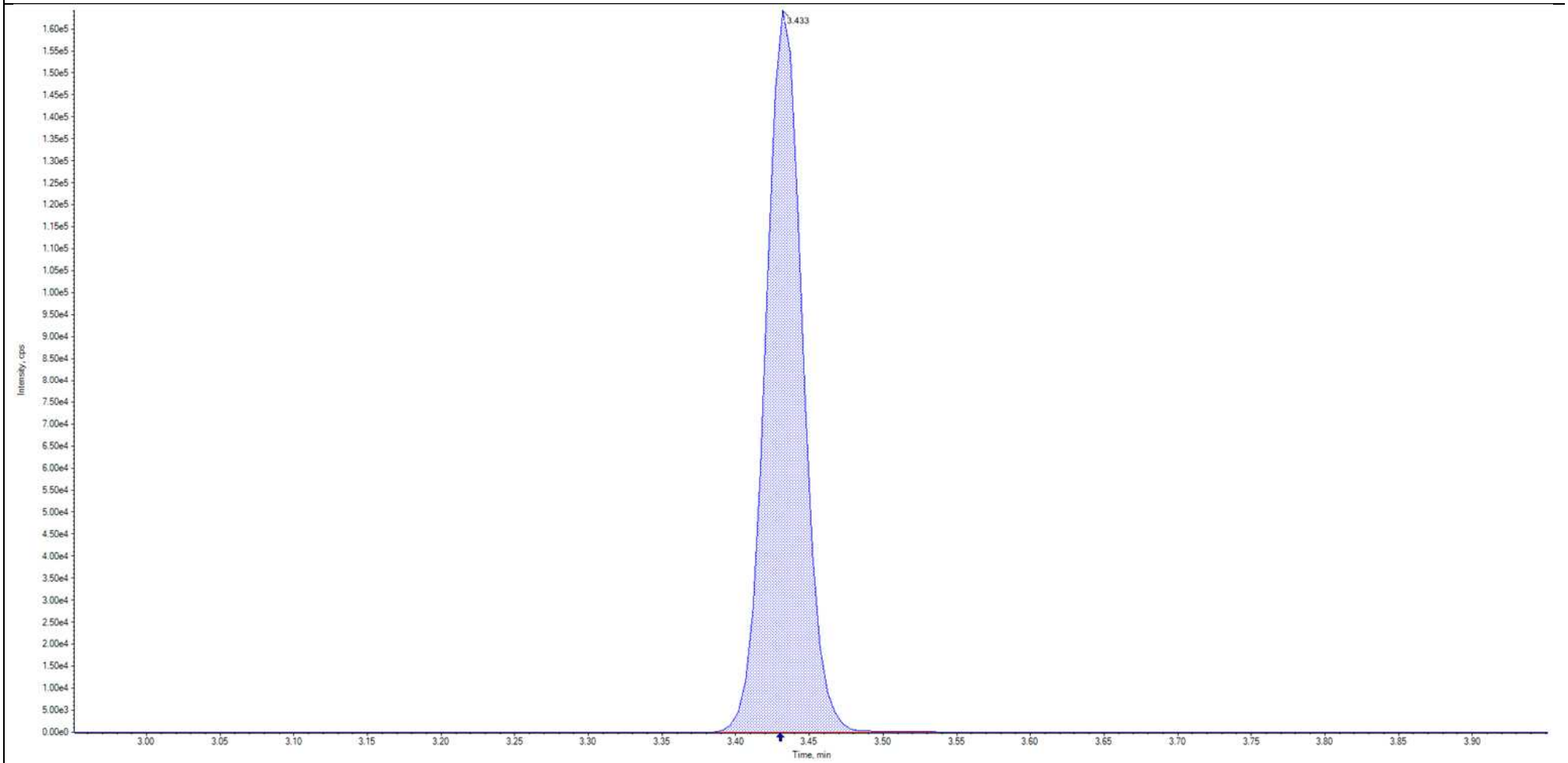
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Alpha Analytical LLC
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13C4-PFOA
Sample: WG2035972-1,BSICS



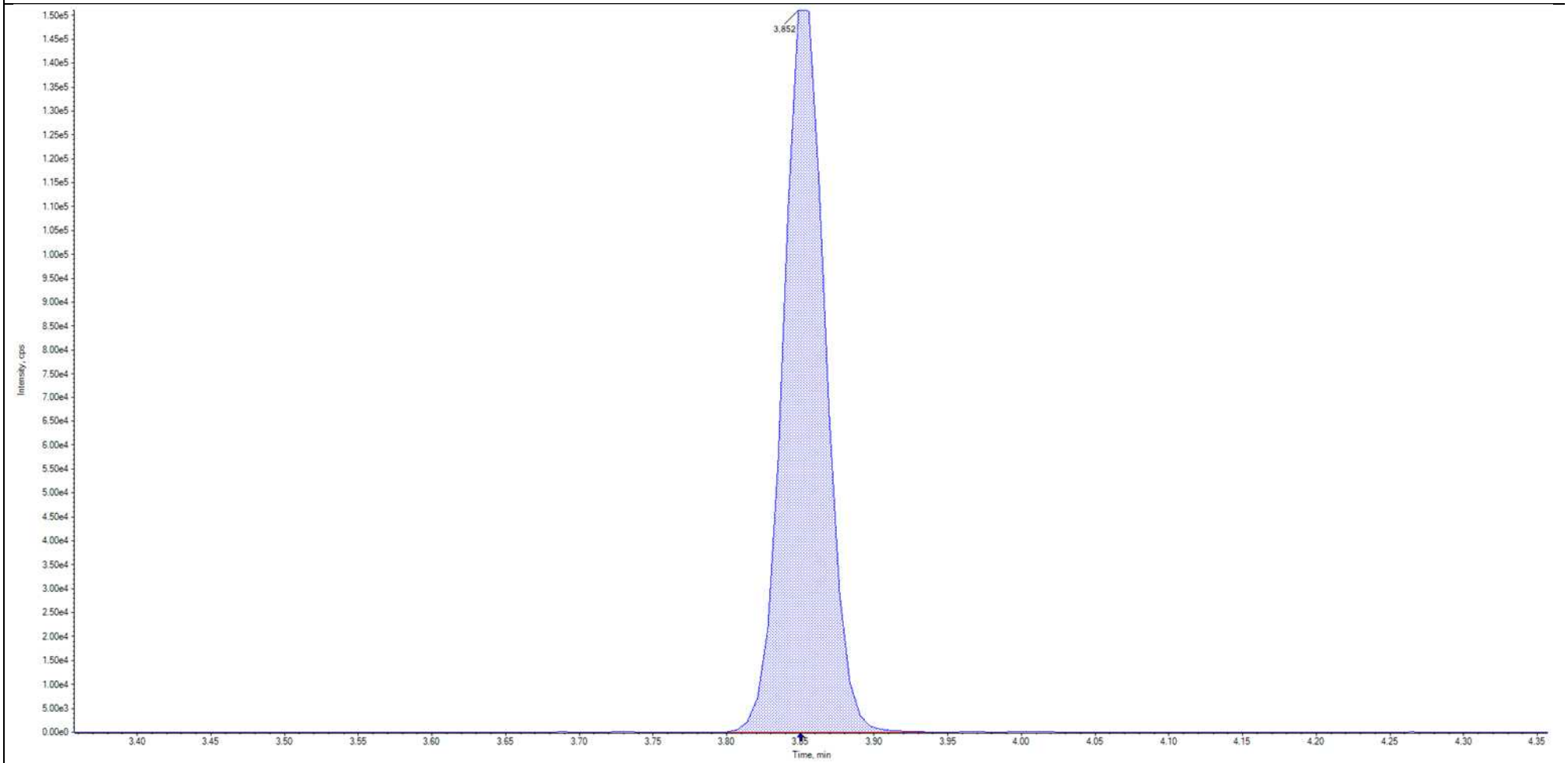
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Alpha Analytical LLC
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13C5-PFNA
Sample: WG2035972-1,BSICS

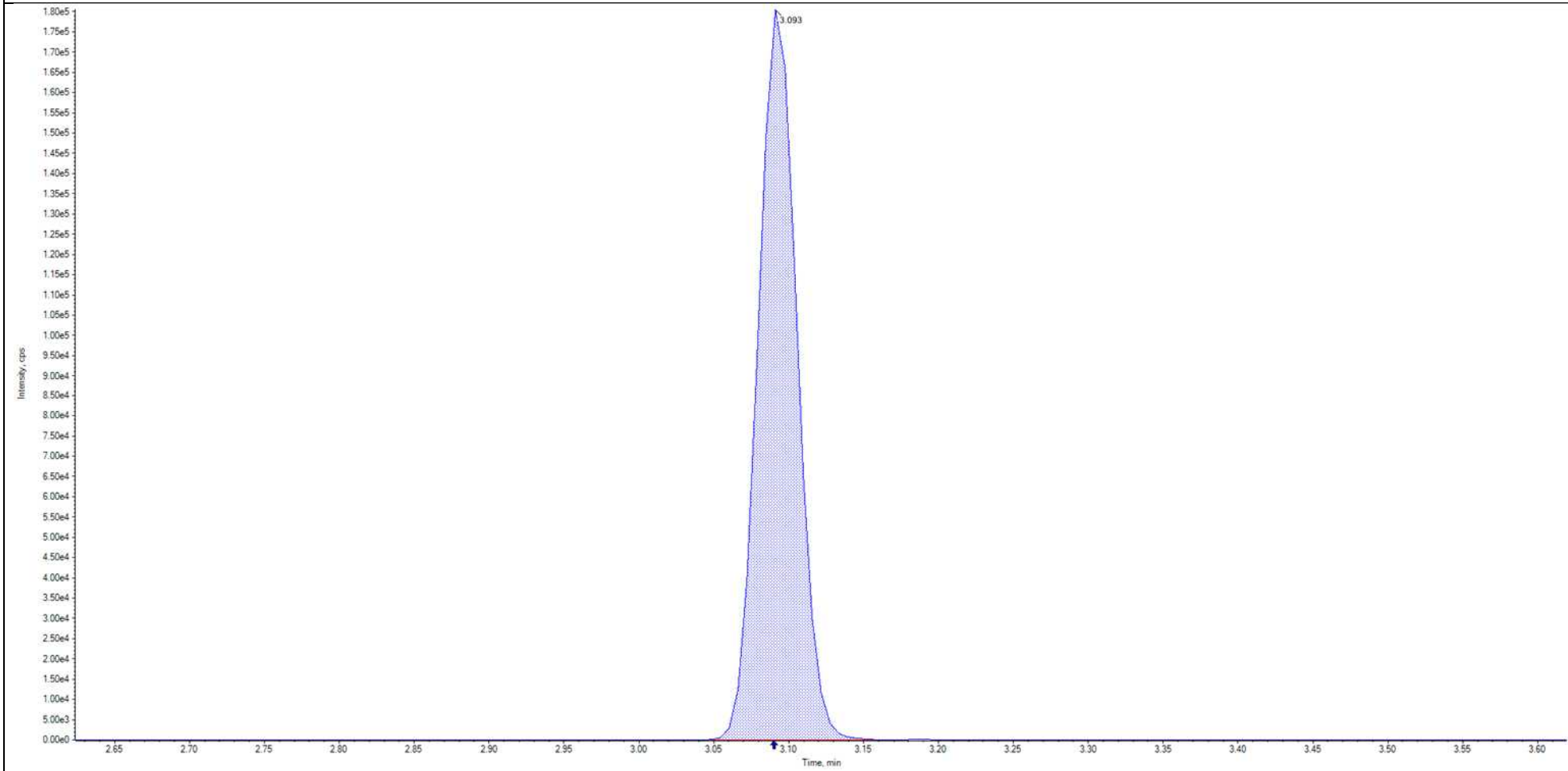


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Alpha Analytical LLC
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13C2-PFDA
Sample: WG2035972-1,BSICS

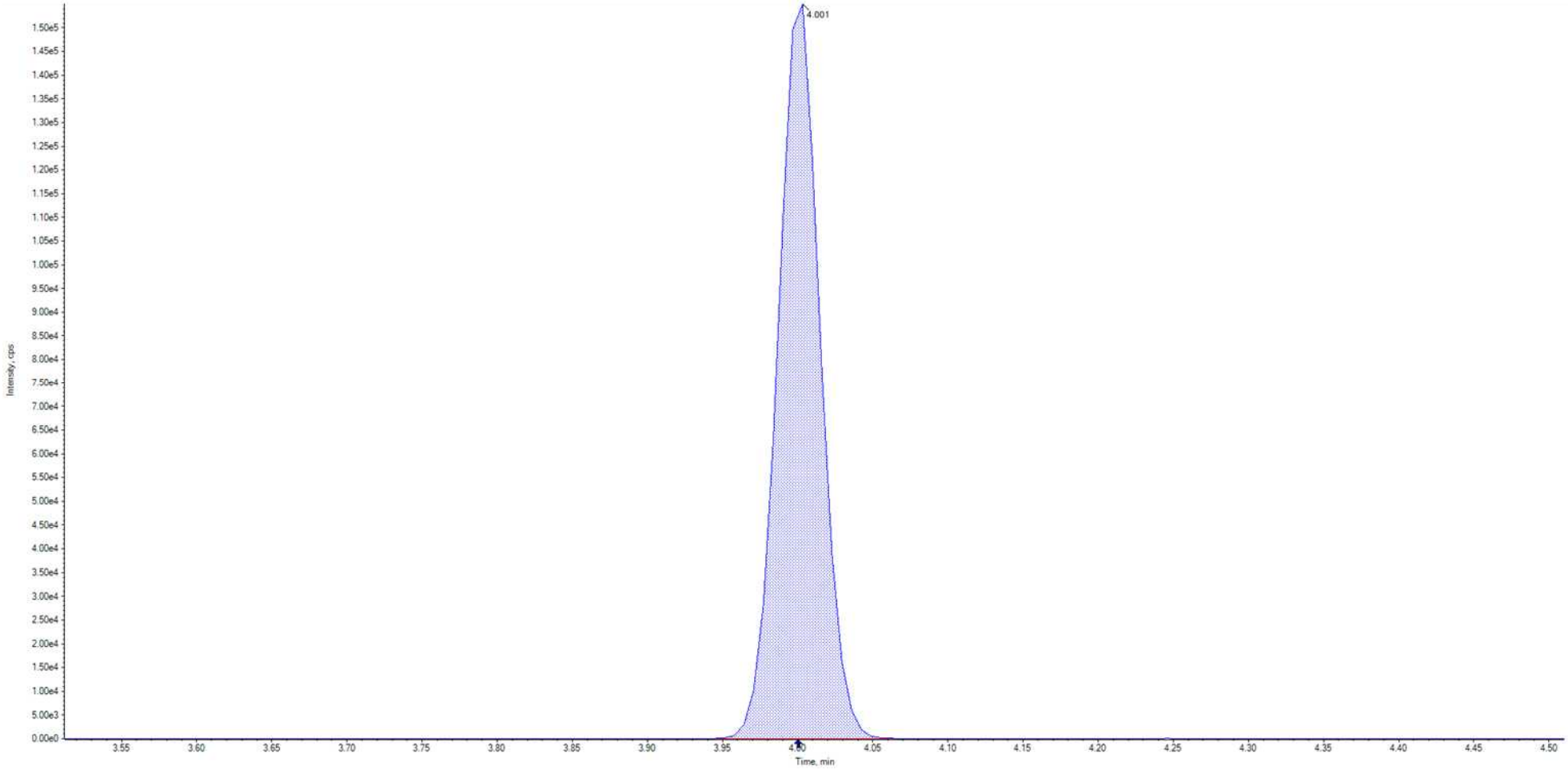


18O2-PFHxS
Sample: WG2035972-1,BSICS



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

13C4-PFOS
Sample: WG2035972-1,BSICS



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

ID: WG2035972-2,INSTBLANK
Name: SCI09_250303_31.wiff2
Date & Time: 2025-03-03T16:12:59
Description: WG2035972
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:JW

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	N/A	213.0 / 169.0	N/A		N/A	N/A	N/A	N/A	N/A
2	PFPeA	2706-90-3	N/A	263.0 / 219.0	N/A		N/A	N/A	N/A	N/A	N/A
3	PFPeA_2	2706-90-3	N/A	263.0 / 68.9	N/A		N/A	N/A	N/A	N/A	N/A
4	PFHxA	307-24-4	N/A	313.0 / 269.0	N/A		N/A	N/A	0.081	N/A	N/A
5	PFHxA_2	307-24-4	N/A	313.0 / 119.0	N/A		N/A	N/A	0.081	N/A	N/A
6	PFHpA	375-85-9	N/A	363.1 / 319.0	N/A		N/A	N/A	0.373	N/A	N/A
7	PFHpA_2	375-85-9	N/A	363.1 / 169.0	N/A		N/A	N/A	0.373	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	N/A	413.1 / 369.1	N/A		N/A	N/A	0.424	N/A	N/A
9	PFOA_2	335-67-1	N/A	413.1 / 169.0	N/A		N/A	N/A	0.424	N/A	N/A
10	PFNA	375-95-1	N/A	462.8 / 418.9	N/A		N/A	N/A	0.493	N/A	N/A
11	PFNA_2	375-95-1	N/A	462.8 / 219.0	N/A		N/A	N/A	0.493	N/A	N/A
12	PFDA	335-76-2	N/A	513.1 / 469.1	N/A		N/A	N/A	0.188	N/A	N/A
13	PFDA_2	335-76-2	N/A	513.1 / 219.0	N/A		N/A	N/A	0.188	N/A	N/A
14	PFUnA	2058-94-8	N/A	563.1 / 519.1	N/A		N/A	N/A	0.146	N/A	N/A
15	PFUnA_2	2058-94-8	N/A	563.1 / 269.0	N/A		N/A	N/A	0.146	N/A	N/A
16	PFDoA	307-55-1	N/A	613.1 / 569.1	N/A		N/A	N/A	0.142	N/A	N/A
17	PFDoA_2	307-55-1	N/A	613.1 / 319.0	N/A		N/A	N/A	0.142	N/A	N/A
18	PFTrDA	72629-94-8	5.02	663.1 / 619.1	7856		0.030	0.172	0.152	Pass	N/A
19	PFTrDA_2	72629-94-8	5.02	663.1 / 169.0	1352	M2	0.034	0.172	0.152	Pass	N/A
20	PFTeDA	376-06-7	5.39	713.1 / 669.1	11189		0.048	0.181	0.154	Pass	N/A
21	PFTeDA_2	376-06-7	5.39	713.1 / 169.0	2028	M2	0.053	0.181	0.154	Pass	N/A
22	PFBS	375-73-5	N/A	299.1 / 80.1	N/A		N/A	N/A	0.374	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	N/A	299.1 / 99.1	N/A		N/A	N/A	0.374	N/A	N/A
24	PFPeS	2706-91-4	N/A	349.1 / 80.1	N/A		N/A	N/A	0.314	N/A	N/A
25	PFPeS_2	2706-91-4	N/A	349.1 / 99.1	N/A		N/A	N/A	0.314	N/A	N/A
26	PFHxS	355-46-4	N/A	399.1 / 80.1	N/A		N/A	N/A	0.306	N/A	N/A
27	PFHxS_2	355-46-4	N/A	399.1 / 99.1	N/A		N/A	N/A	0.306	N/A	N/A
28	PFHpS	375-92-8	N/A	449.1 / 80.1	N/A		N/A	N/A	0.316	N/A	N/A
29	PFHpS_2	375-92-8	N/A	449.1 / 99.1	N/A		N/A	N/A	0.316	N/A	N/A
30	PFOS	1763-23-1	N/A	499.1 / 80.1	N/A		N/A	N/A	0.244	N/A	N/A
31	PFOS_2	1763-23-1	N/A	499.1 / 99.1	N/A		N/A	N/A	0.244	N/A	N/A
32	PFNS	68259-12-1	N/A	549.1 / 80.1	N/A		N/A	N/A	0.294	N/A	N/A
33	PFNS_2	68259-12-1	N/A	549.1 / 99.1	N/A		N/A	N/A	0.294	N/A	N/A
34	PFDS	335-77-3	N/A	599.1 / 80.1	N/A		N/A	N/A	0.290	N/A	N/A
35	PFDS_2	335-77-3	N/A	599.1 / 99.1	N/A		N/A	N/A	0.290	N/A	N/A
36	PFDoS	79780-39-5	N/A	699.2 / 80.1	N/A		N/A	N/A	0.256	N/A	N/A
37	PFDoS_2	79780-39-5	N/A	699.2 / 99.1	N/A		N/A	N/A	0.256	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	N/A	327.1 / 307.1	N/A		N/A	N/A	0.650	N/A	N/A
39	4:2FTS_2	757124-72-4	N/A	327.1 / 81.1	N/A		N/A	N/A	0.650	N/A	N/A
40	6:2FTS	27619-97-2	N/A	427.2 / 407.2	N/A		N/A	N/A	0.620	N/A	N/A
41	6:2FTS_2	27619-97-2	N/A	427.2 / 81.1	N/A		N/A	N/A	0.620	N/A	N/A
42	8:2FTS	39108-34-4	N/A	527.2 / 507.2	N/A		N/A	N/A	0.676	N/A	N/A
43	8:2FTS_2	39108-34-4	N/A	527.2 / 81.1	N/A		N/A	N/A	0.676	N/A	N/A
44	PFOSA	754-91-6	N/A	498.1 / 78.1	N/A		N/A	N/A	0.026	N/A	N/A
45	PFOSA_2	754-91-6	N/A	498.1 / 478.0	N/A		N/A	N/A	0.026	N/A	N/A
46	NMeFOSA	31506-32-8	N/A	512.2 / 219.0	N/A		N/A	N/A	1.377	N/A	N/A
47	NMeFOSA_2	31506-32-8	N/A	512.2 / 169.0	N/A		N/A	N/A	1.377	N/A	N/A
48	NEtFOSA	4151-50-2	N/A	526.2 / 219.0	N/A		N/A	N/A	1.292	N/A	N/A
49	NEtFOSA_2	4151-50-2	N/A	526.2 / 169.0	N/A		N/A	N/A	1.292	N/A	N/A
50	NMeFOSAA	2355-31-9	N/A	570.2 / 419.1	N/A		N/A	N/A	0.697	N/A	N/A
51	NMeFOSAA_2	2355-31-9	N/A	570.2 / 483.0	N/A		N/A	N/A	0.697	N/A	N/A
52	NEtFOSAA	2991-50-6	N/A	584.2 / 419.1	N/A		N/A	N/A	0.557	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	N/A	584.2 / 526.2	N/A		N/A	N/A	0.557	N/A	N/A
54	NMeFOSE	24448-09-7	5.84	616.1 / 58.9	6097	M5	0.081	N/A	N/A	N/A	N/A
55	NEtFOSE	1691-99-2	6.13	630.0 / 58.9	9057	M5	0.084	N/A	N/A	N/A	N/A
56	HFPO-DA	13252-13-6	N/A	285.0 / 169.0	N/A		N/A	N/A	0.501	N/A	N/A
57	HFPO-DA_2	13252-13-6	N/A	285.0 / 184.9	N/A		N/A	N/A	0.501	N/A	N/A
58	ADONA	919005-14-4	N/A	376.9 / 251.0	N/A		N/A	N/A	0.691	N/A	N/A
59	ADONA_2	919005-14-4	N/A	376.9 / 84.8	N/A		N/A	N/A	0.691	N/A	N/A
60	9Cl-PF3ONS	756426-58-1	N/A	530.8 / 351.1	N/A		N/A	N/A	0.332	N/A	N/A
61	9Cl-PF3ONS_2	756426-58-1	N/A	532.8 / 353.0	N/A		N/A	N/A	0.332	N/A	N/A
62	11Cl-PF3OUdS	763051-92-9	N/A	630.9 / 451.0	N/A		N/A	N/A	0.322	N/A	N/A
63	11Cl-PF3OUdS_2	763051-92-9	N/A	632.9 / 452.9	N/A		N/A	N/A	0.322	N/A	N/A
64	3:3FTCA	356-02-5	N/A	241.1 / 177.1	N/A		N/A	N/A	1.010	N/A	N/A
65	3:3FTCA_2	356-02-5	N/A	241.1 / 117.0	N/A		N/A	N/A	1.010	N/A	N/A
66	5:3FTCA	914637-49-3	N/A	341.1 / 237.1	N/A		N/A	N/A	1.017	N/A	N/A
67	5:3FTCA_2	914637-49-3	N/A	341.1 / 217.0	N/A		N/A	N/A	1.017	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.00	441.1 / 316.9	12498		0.286	1.557	1.343	Pass	N/A
69	7:3FTCA_2	812-70-4	4.00	441.1 / 337.1	19463		0.337	1.557	1.343	Pass	N/A
70	PFEESA	113507-82-7	N/A	315.1 / 135.0	N/A		N/A	N/A	0.081	N/A	N/A
71	PFEESA_2	113507-82-7	N/A	315.1 / 82.9	N/A		N/A	N/A	0.081	N/A	N/A
72	PFMPA	377-73-1	N/A	229.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
73	PFMBA	863090-89-5	N/A	279.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
74	NFDHA	151772-58-6	N/A	295.0 / 201.0	N/A		N/A	N/A	0.681	N/A	N/A
75	NFDHA_2	151772-58-6	N/A	295.0 / 84.9	N/A		N/A	N/A	0.681	N/A	N/A
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	1.68	333.2 / 312.1	163004		5.426	N/A	N/A	N/A	N/A
79	13C2-PFOA	Surr	2.97	415.0 / 370.0	383199		2.381	N/A	N/A	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.57	217.0 / 172.0	2009804		9.632	NA	NA	NA	96.3

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C5-PFPeA	EIS	1.14	268.0 / 223.0	846441		4.852	NA	NA	NA	97.0
13C5-PFHxA	EIS	1.90	318.0 / 273.0	390861		2.383	NA	NA	NA	95.3
13C4-PFHpA	EIS	2.48	367.0 / 322.0	397769		2.514	NA	NA	NA	100.6
13C8-PFOA	EIS	2.97	420.8 / 376.0	671411		2.320	NA	NA	NA	92.8
13C9-PFNA	EIS	3.42	472.0 / 427.0	298321		1.152	NA	NA	NA	92.2
13C6-PFDA	EIS	3.85	519.0 / 474.0	331466		1.262	NA	NA	NA	100.9
13C7-PFUnA	EIS	4.25	570.0 / 525.0	375345		1.294	NA	NA	NA	103.6

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.64	615.1 / 570.0	394277		1.352	NA	NA	NA	108.1
	13C2-PFTeDA	EIS	5.39	715.1 / 670.1	255452		1.351	NA	NA	NA	108.0
	13C3-PFBS	EIS	1.90	302.1 / 80.1	401941		2.359	NA	NA	NA	101.3
	13C3-PFHxS	EIS	3.08	402.1 / 80.1	339577		2.243	NA	NA	NA	94.6
	13C8-PFOS	EIS	4.00	507.1 / 80.1	384796		2.288	NA	NA	NA	95.3
	13C2-4:2FTS	EIS	1.69	329.1 / 81.1	115495		4.597	NA	NA	NA	98.0
	13C2-6:2FTS	EIS	2.79	429.2 / 81.1	104257		4.820	NA	NA	NA	101.3
	13C2-8:2FTS	EIS	3.66	529.2 / 81.1	95174		4.346	NA	NA	NA	90.5

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.23	506.1 / 78.1	669458		2.507	NA	NA	NA	100.3
d3-NMeFOSA	EIS	5.96	515.2 / 219.0	111540		2.313	NA	NA	NA	92.5
d5-NEtFOSA	EIS	6.25	531.2 / 219.0	108010		2.463	NA	NA	NA	98.5
d3-NMeFOSAA	EIS	3.98	573.2 / 419.1	174468		5.288	NA	NA	NA	105.8
d5-NEtFOSAA	EIS	4.18	589.3 / 419.1	146376		5.552	NA	NA	NA	111.0
d7-NMeFOSE	EIS	5.82	623.2 / 58.9	826844		23.840	NA	NA	NA	95.4
d9-NEtFOSE	EIS	6.11	639.2 / 58.9	1144650		24.602	NA	NA	NA	98.4

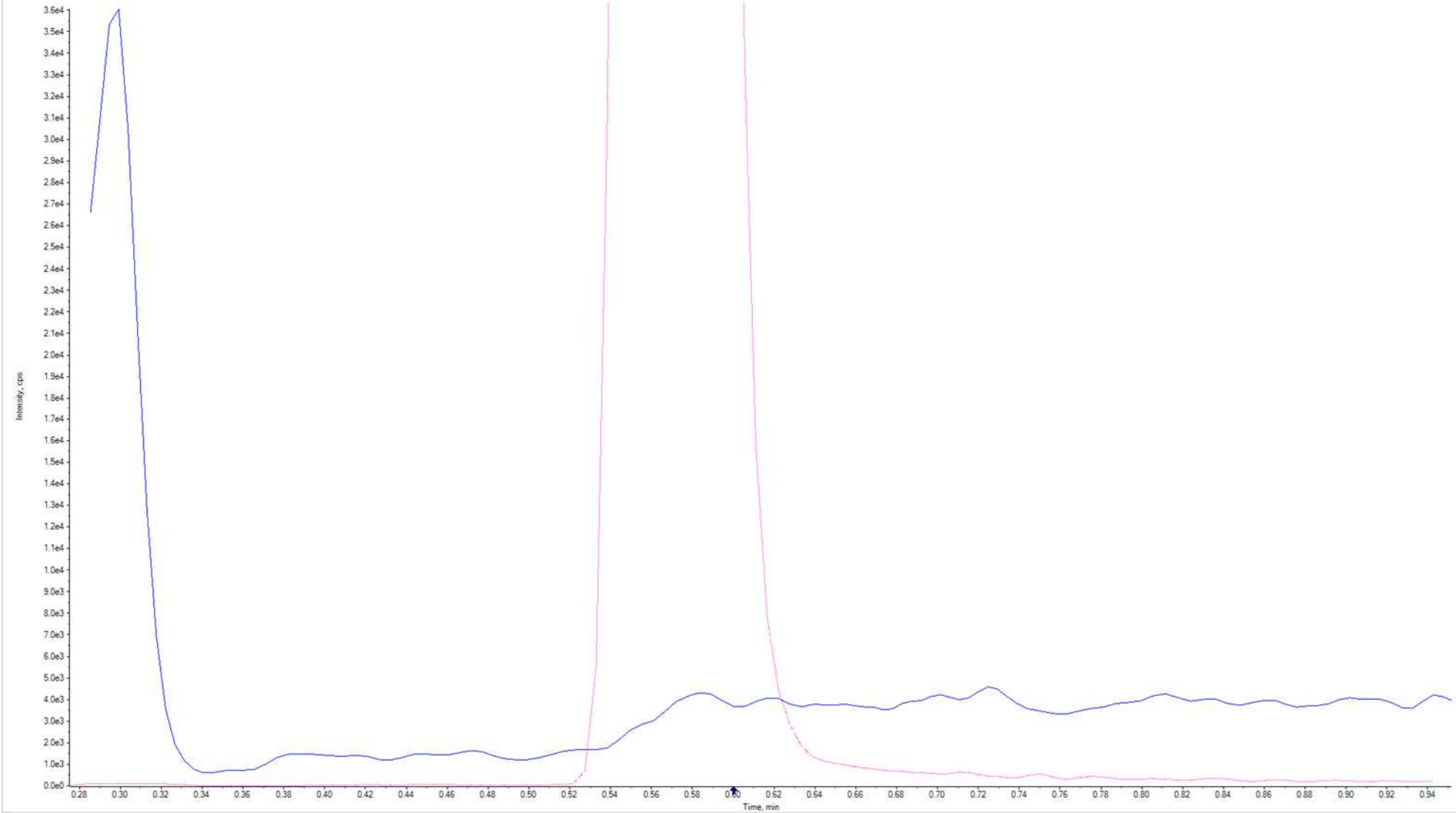
	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.11	287.0 / 169.0	1759107		10.141	NA	NA	NA	101.4
	13C3-PFBA	NIS	0.57	216.0 / 172.0	923253		6.370	NA	NA	NA	127.4
	13C2-PFHxA	NIS	1.90	315.0 / 270.0	482941		2.980	NA	NA	NA	119.2
	13C4-PFOA	NIS	2.97	417.0 / 372.0	439739		3.059	NA	NA	NA	122.4
	13C5-PFNA	NIS	3.42	468.0 / 423.0	324299		1.574	NA	NA	NA	125.9
	13C2-PFDA	NIS	3.85	515.1 / 470.1	306654		1.442	NA	NA	NA	115.4
	18O2-PFHxS	NIS	3.08	403.1 / 84.1	318424		2.705	NA	NA	NA	114.1
	13C4-PFOS	NIS	4.00	503.1 / 80.1	338374		2.815	NA	NA	NA	117.3

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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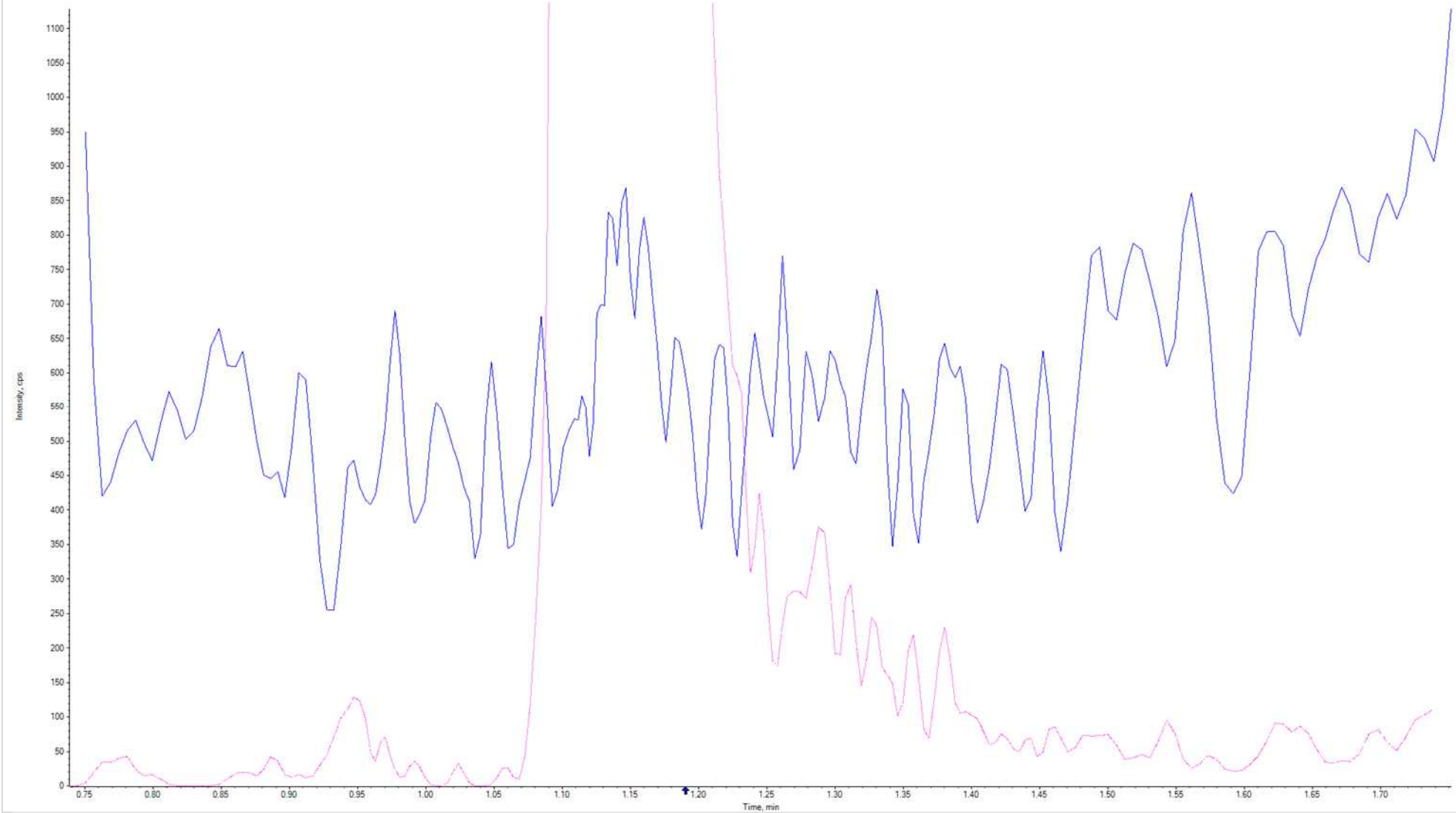
	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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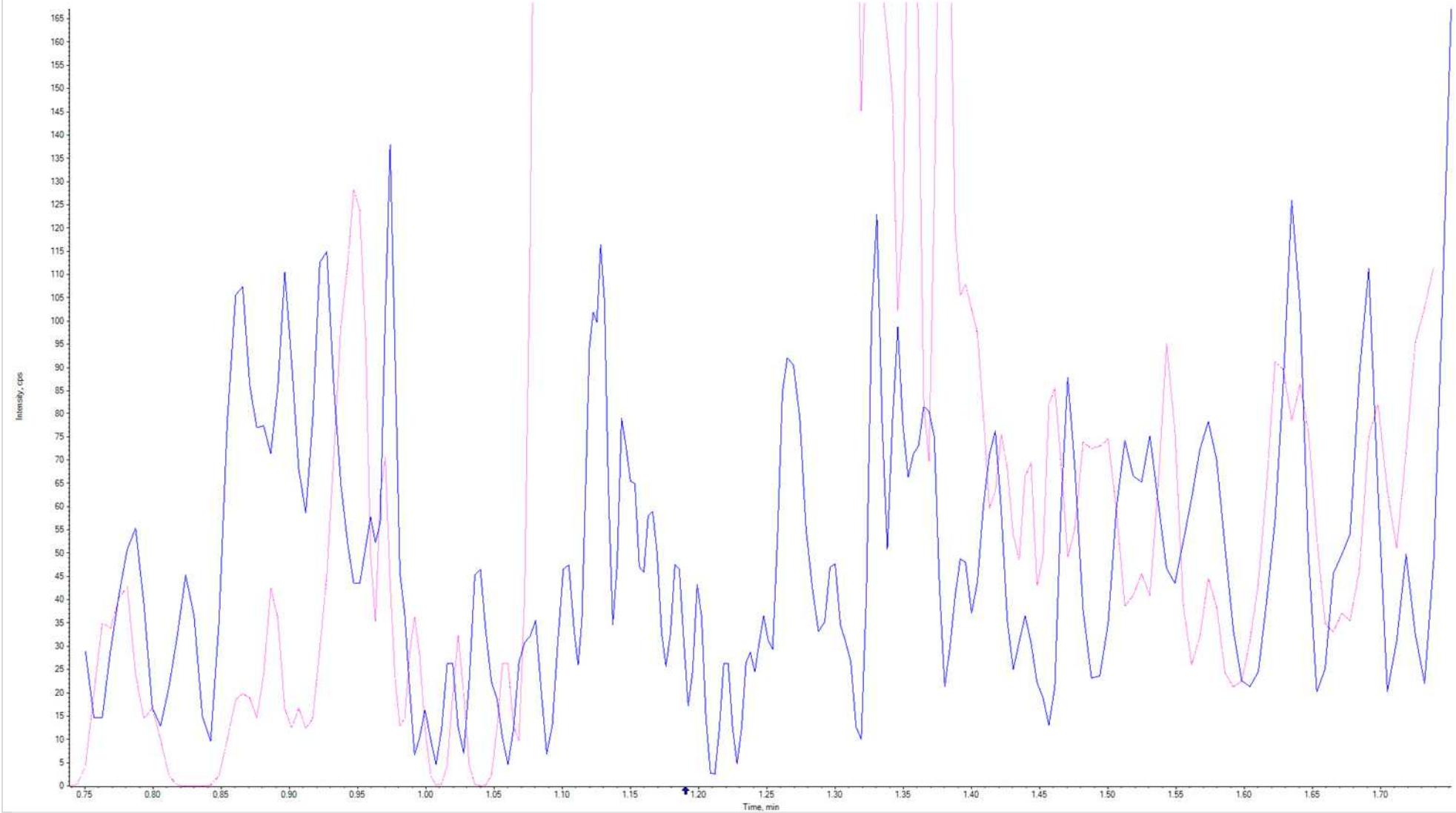
PFBA
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PFPeA
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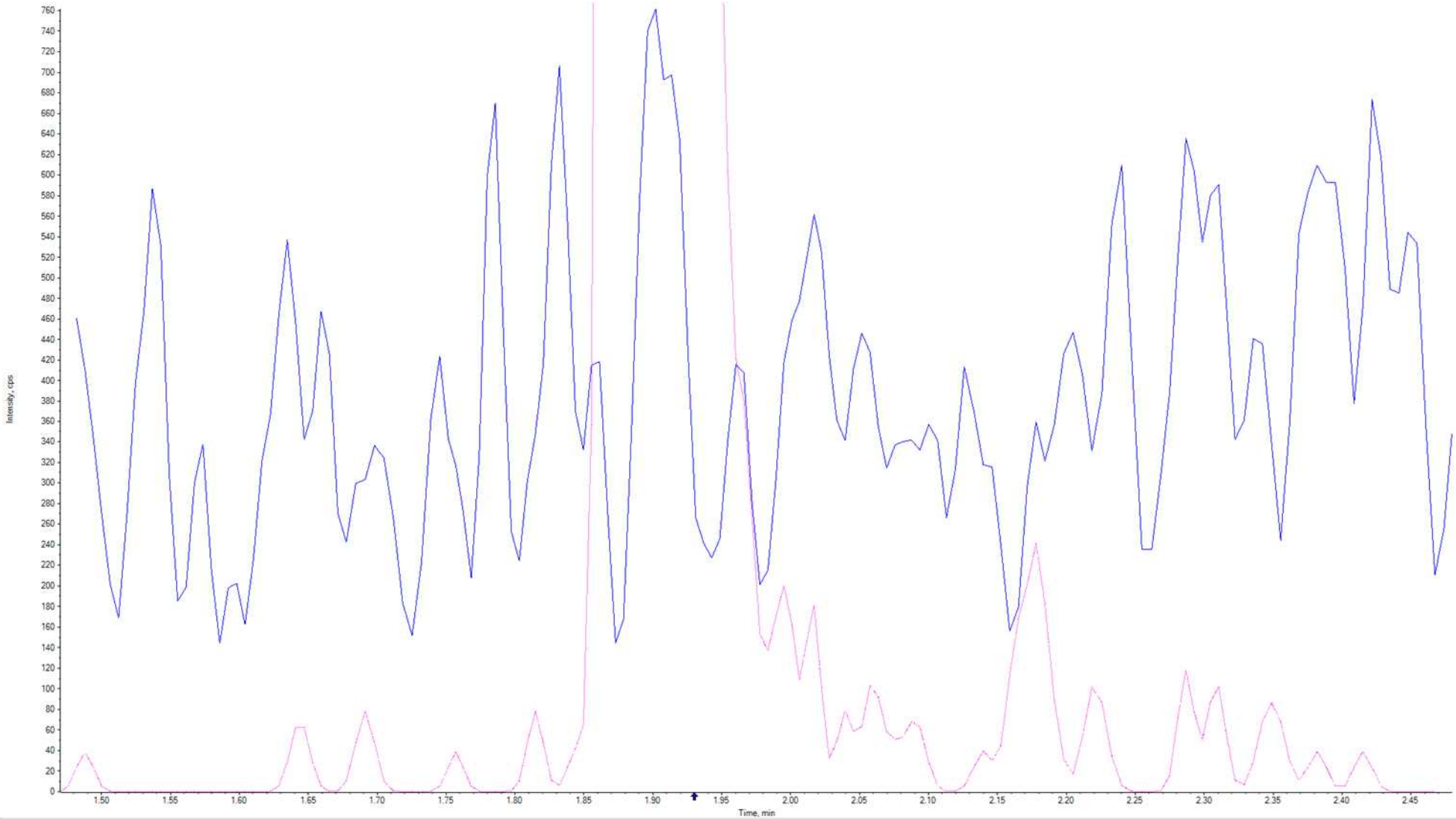


PFPeA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



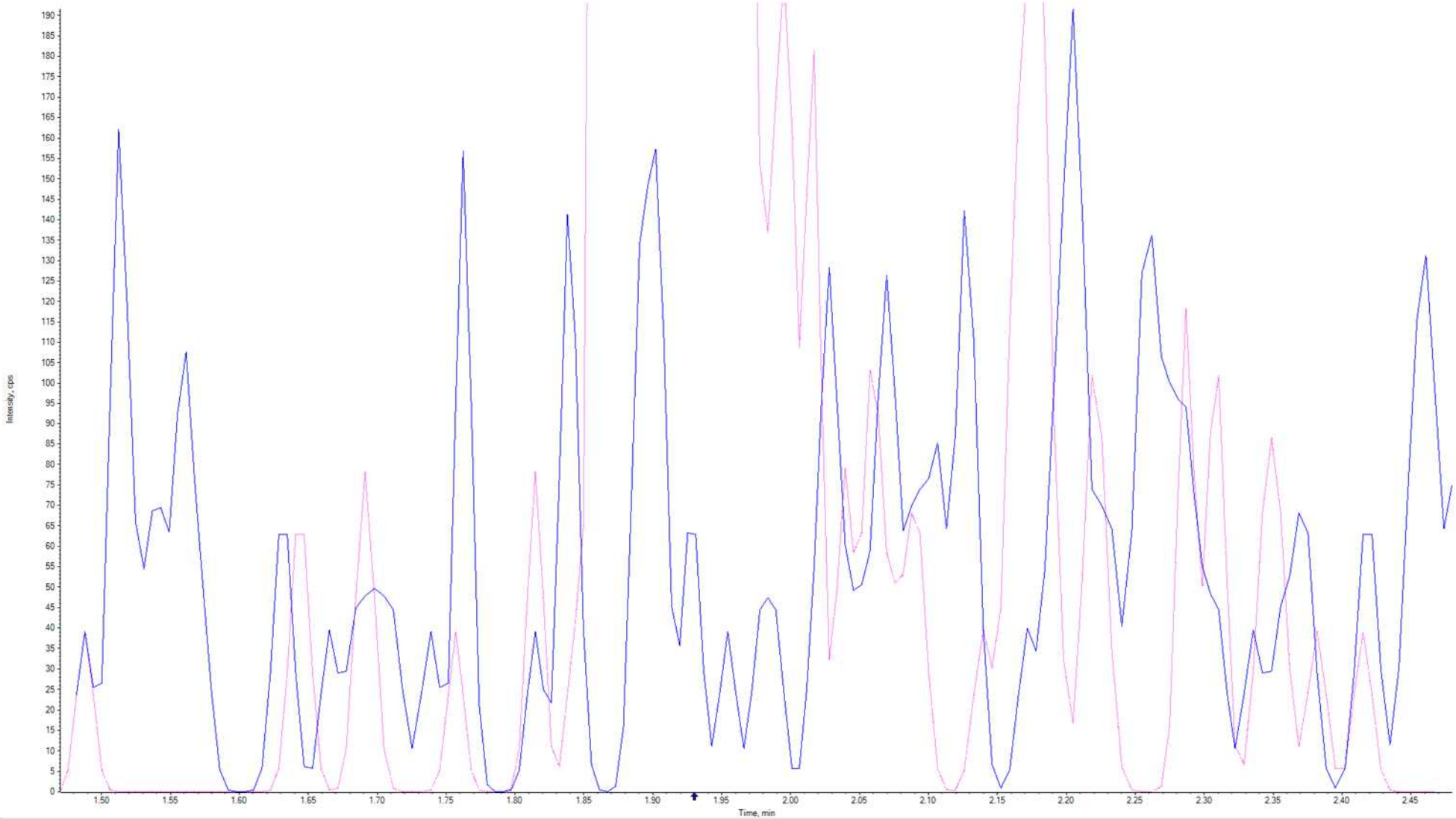
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PFHxA
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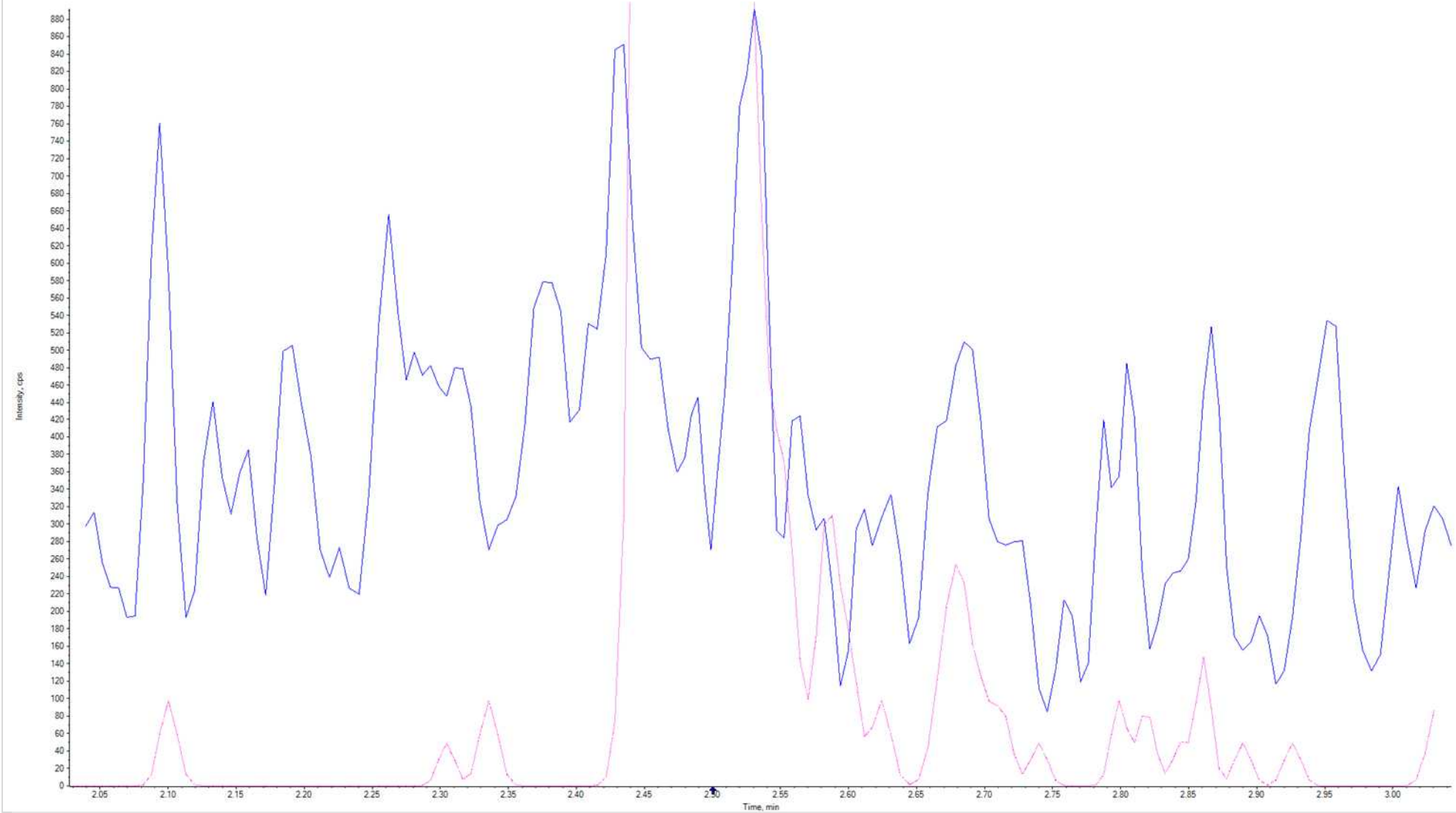
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PFHxA_2
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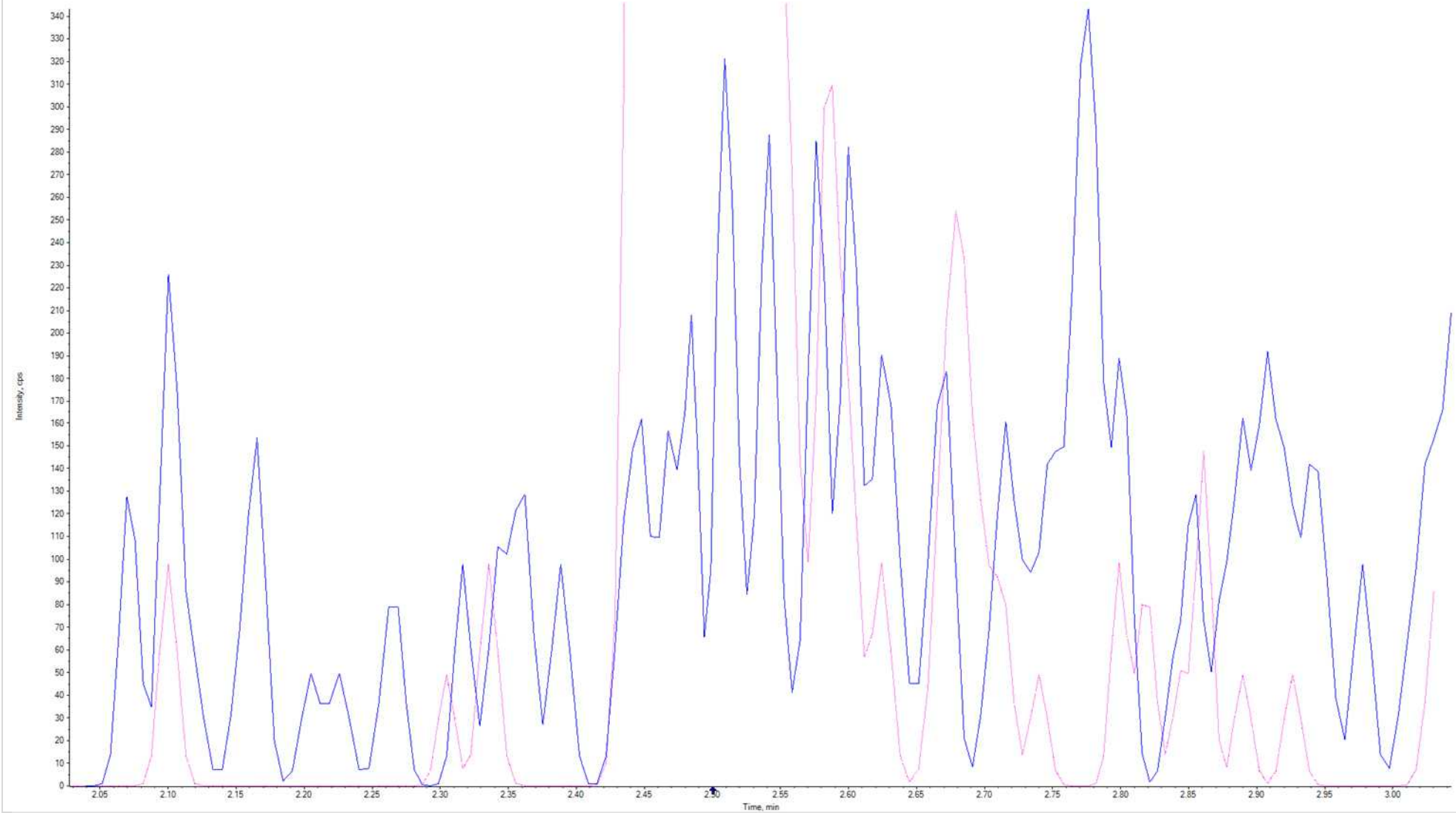
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PFHpA
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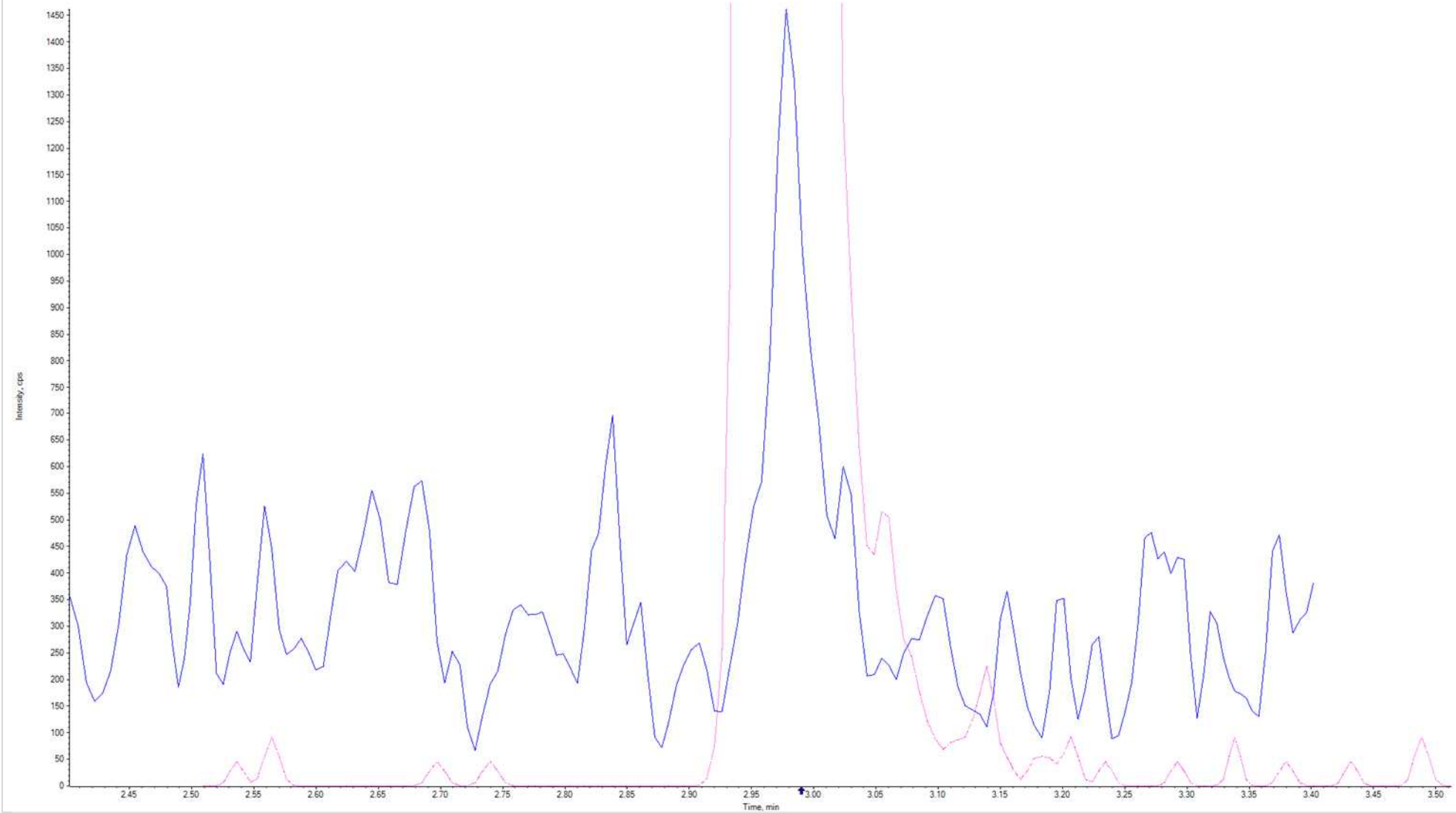
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PFHpA_2
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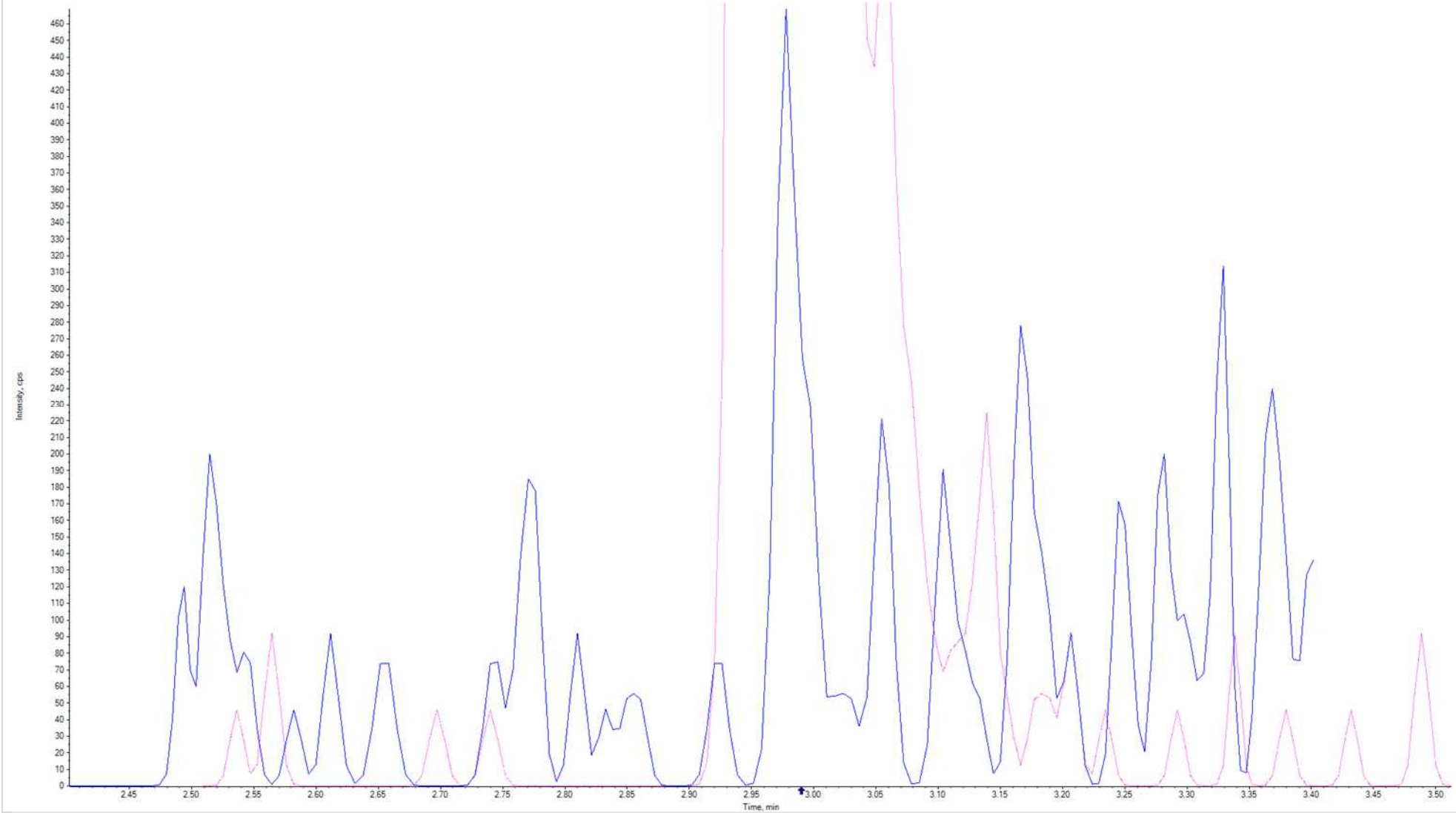
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Alpha Analytical LLC
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PFOA
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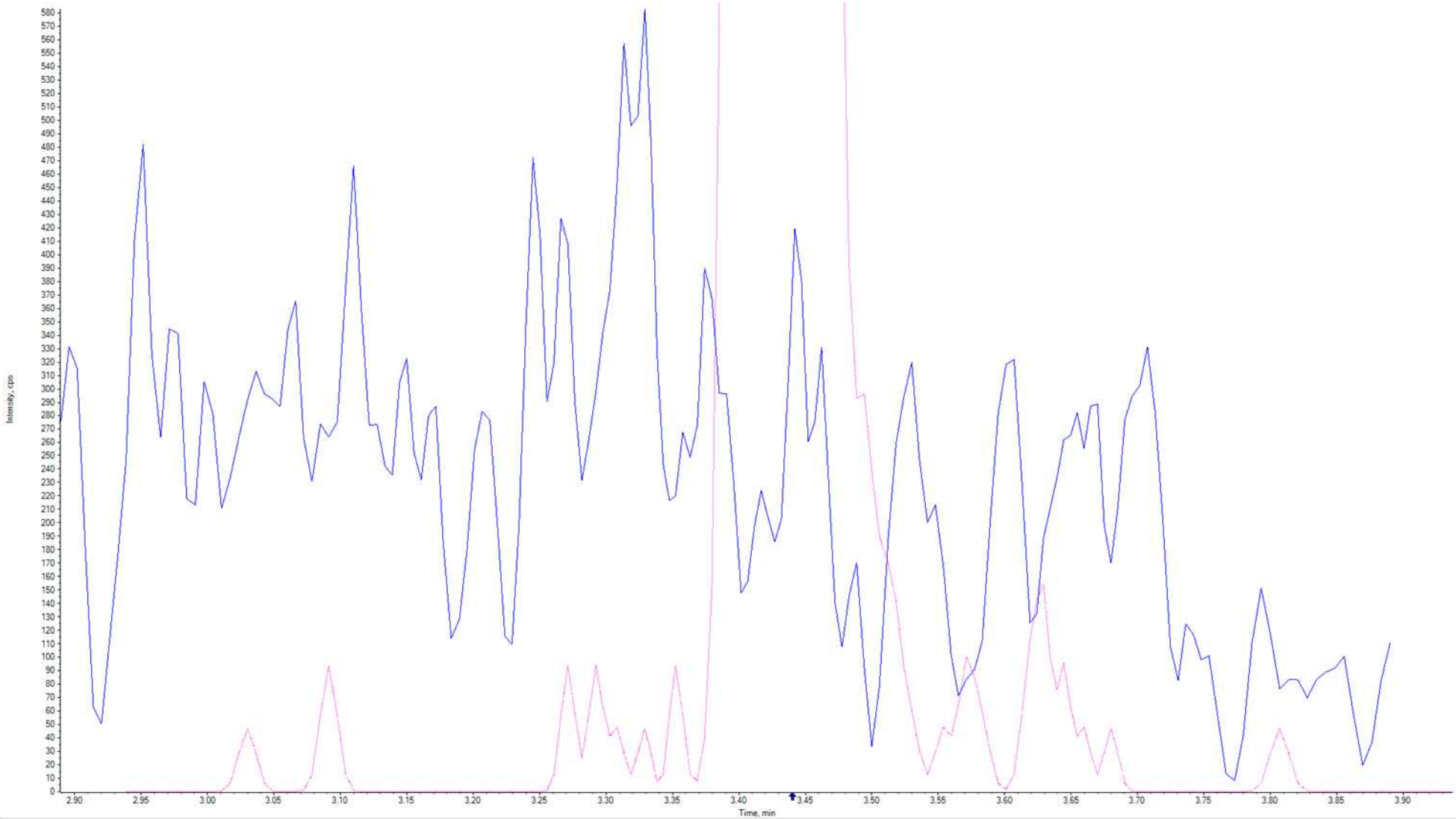
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PFOA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



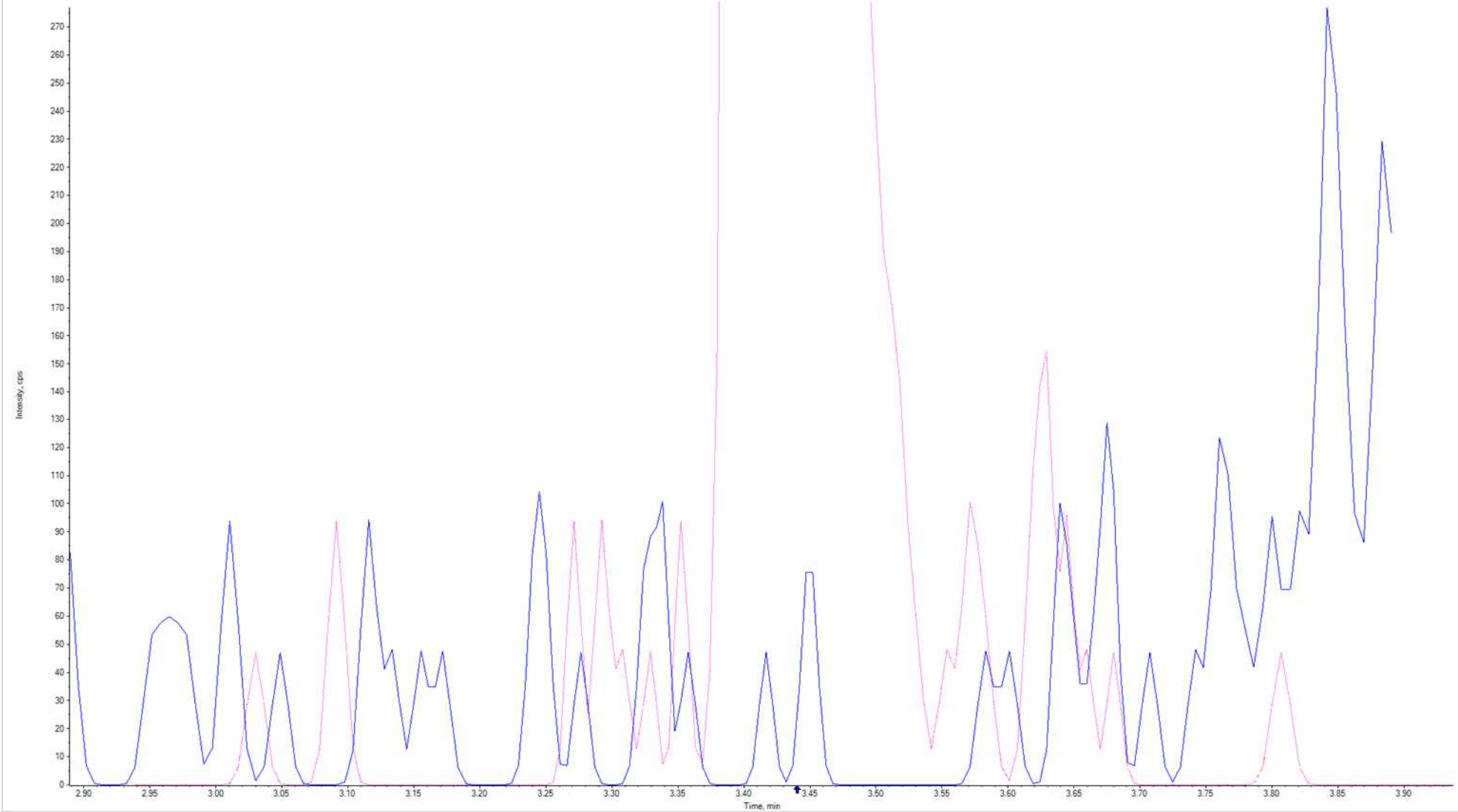
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PFNA
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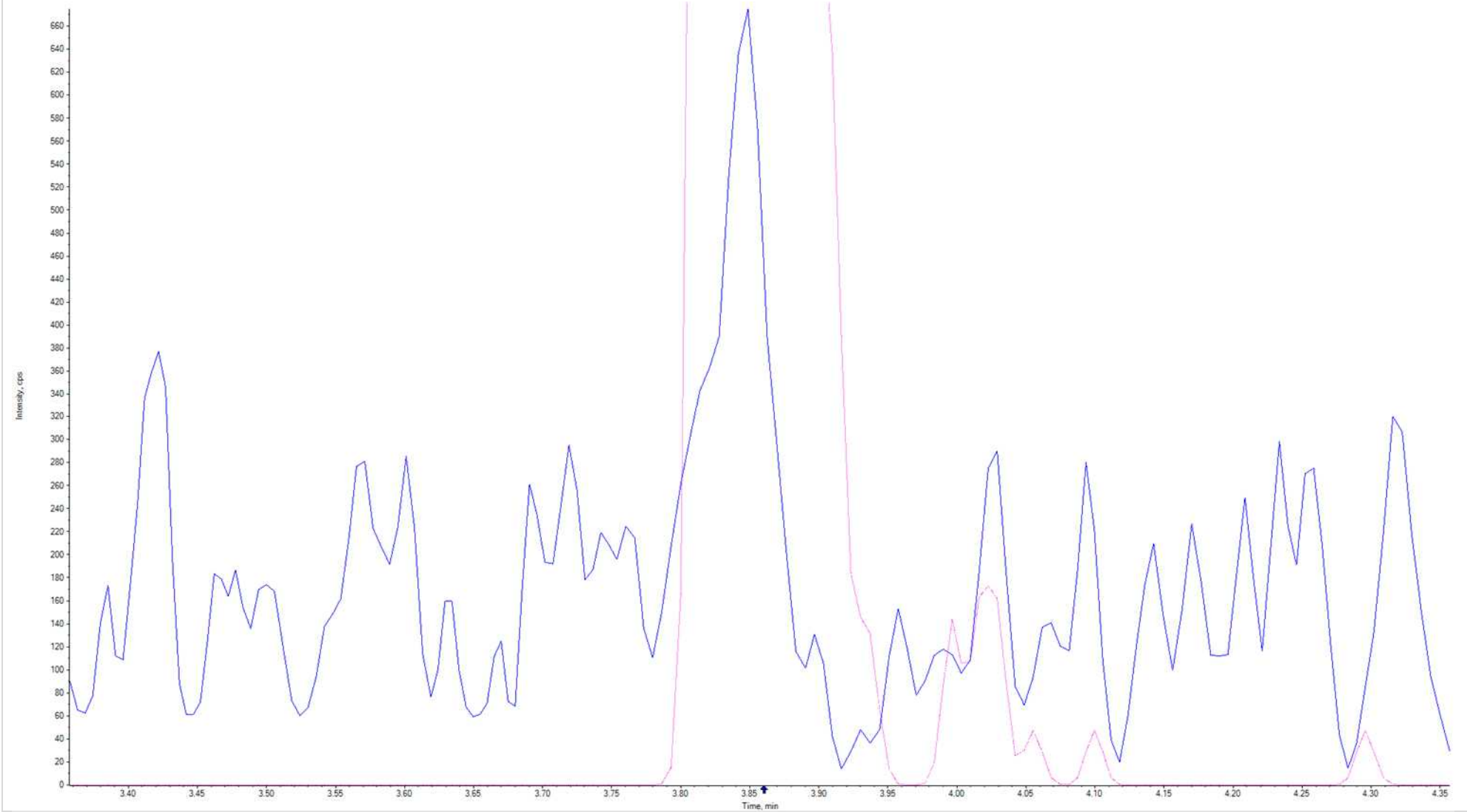
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PFNA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



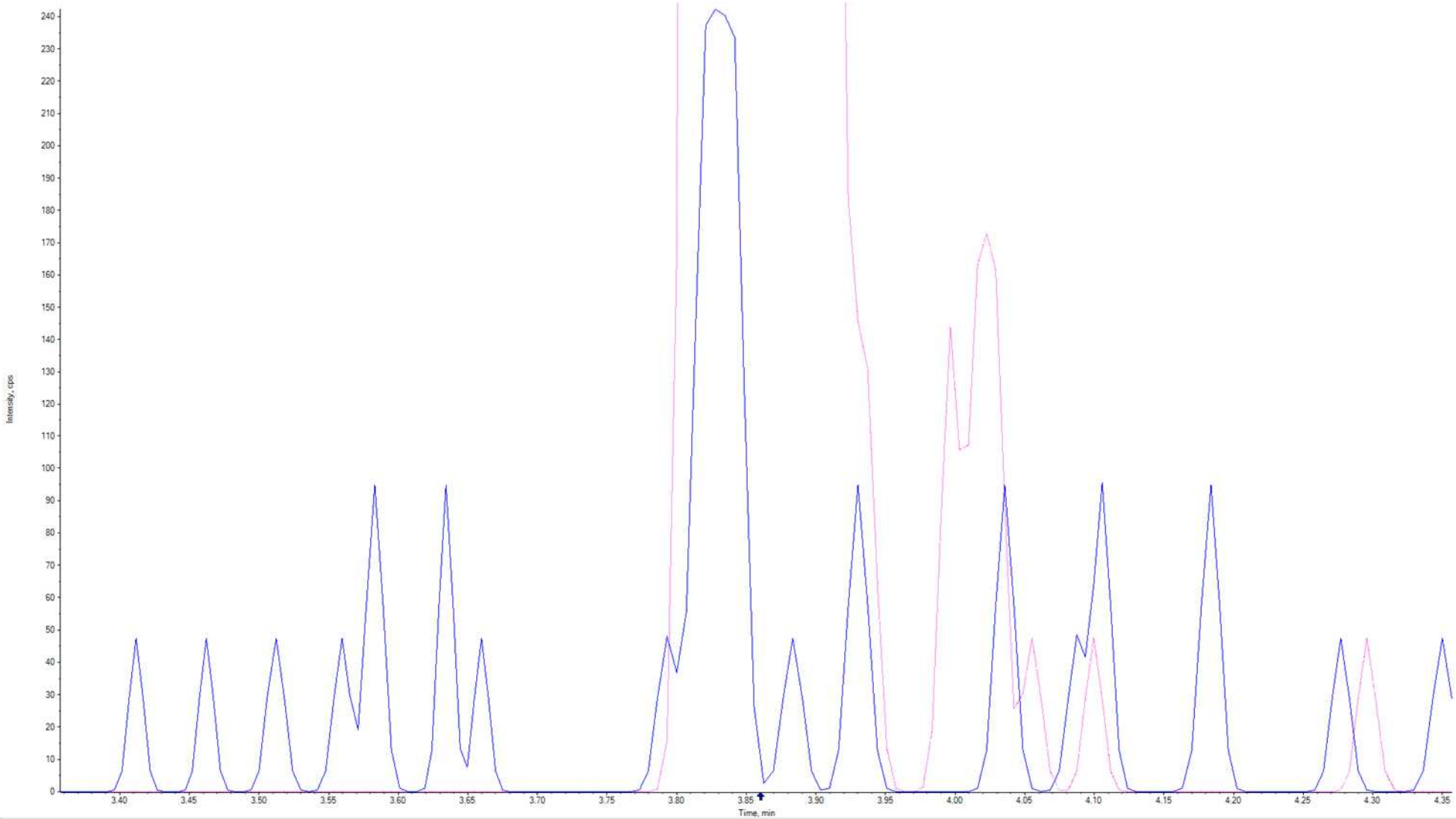
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PFDA
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



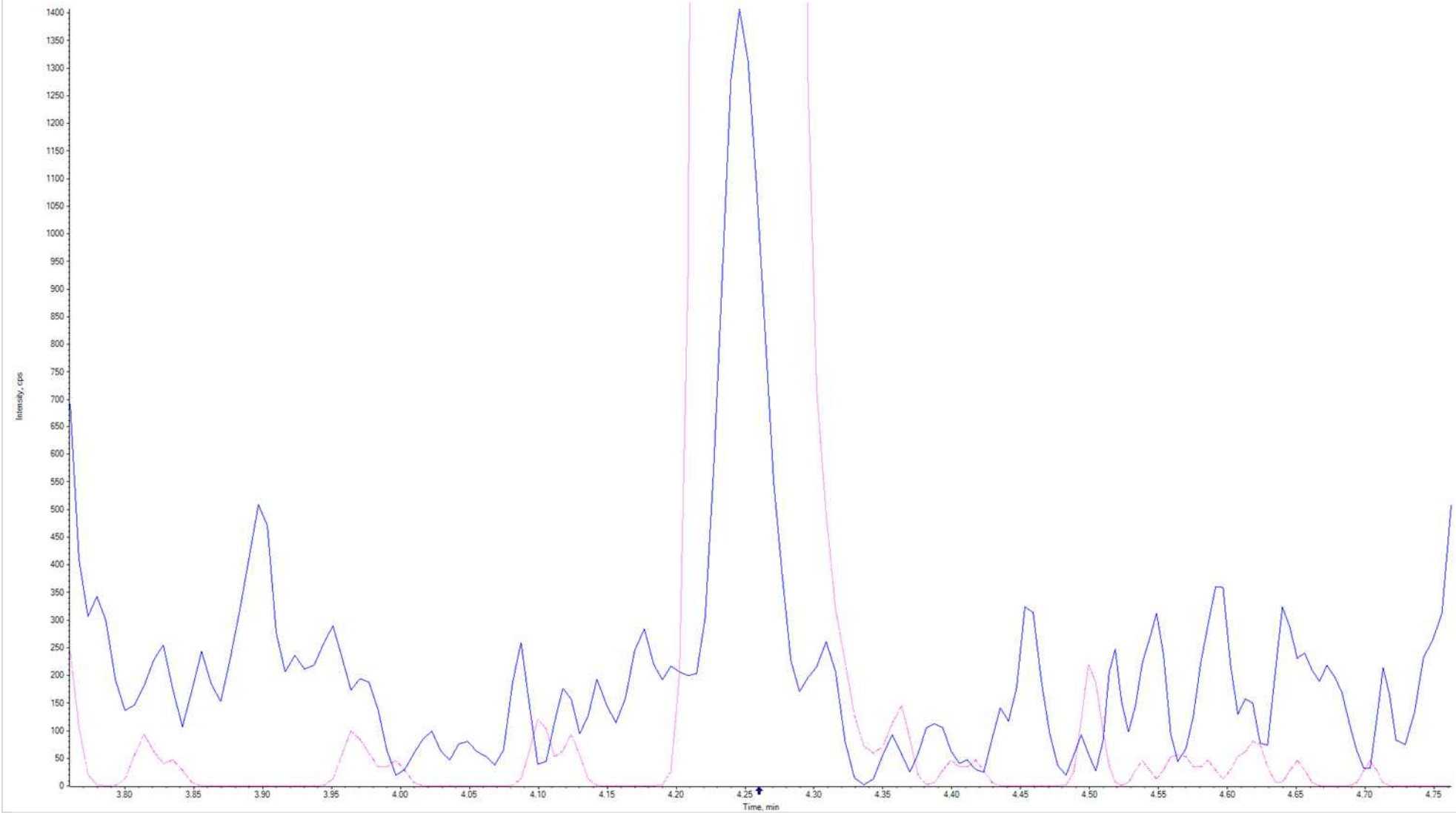
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PFDA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



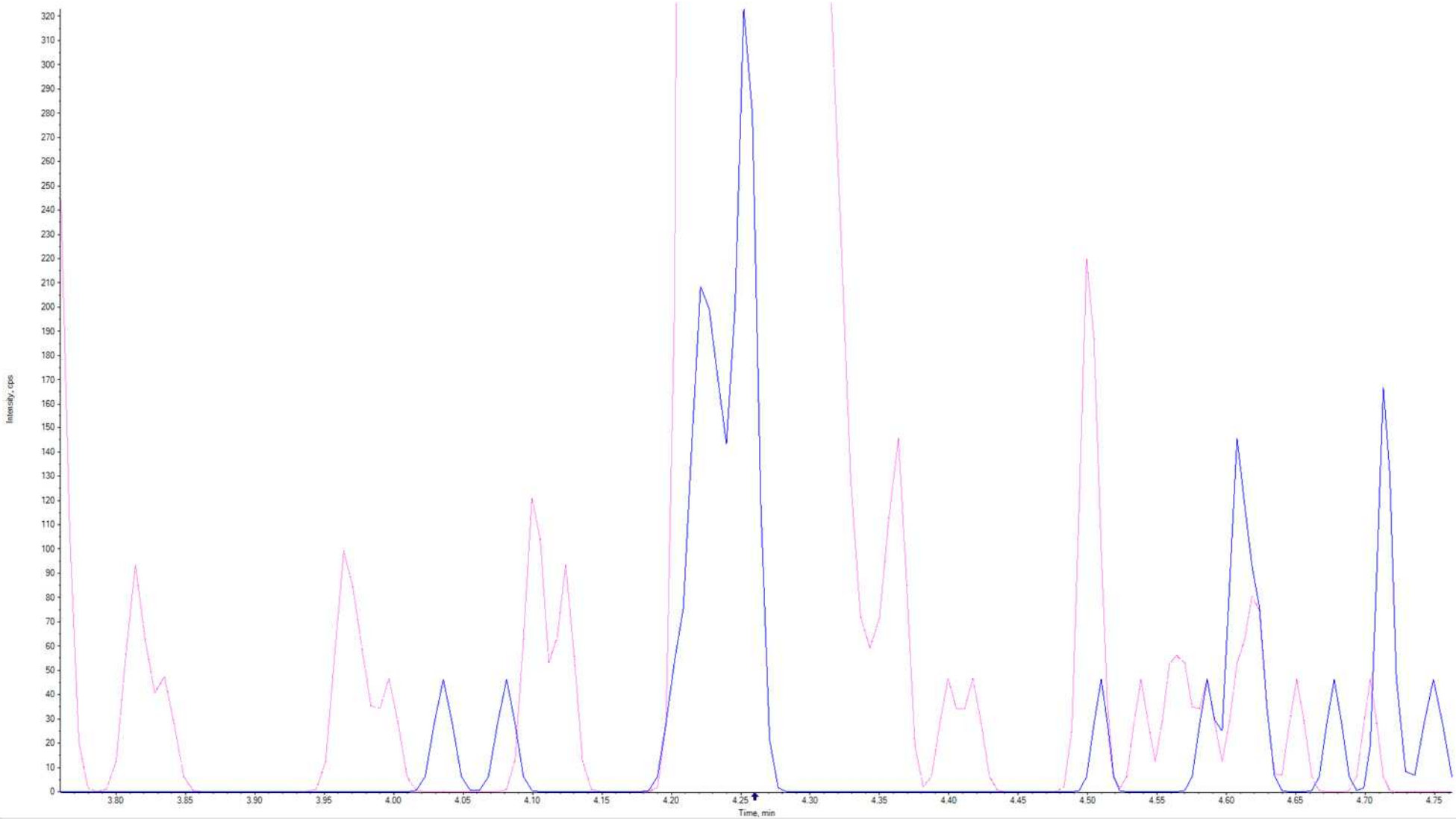
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PFUnA
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



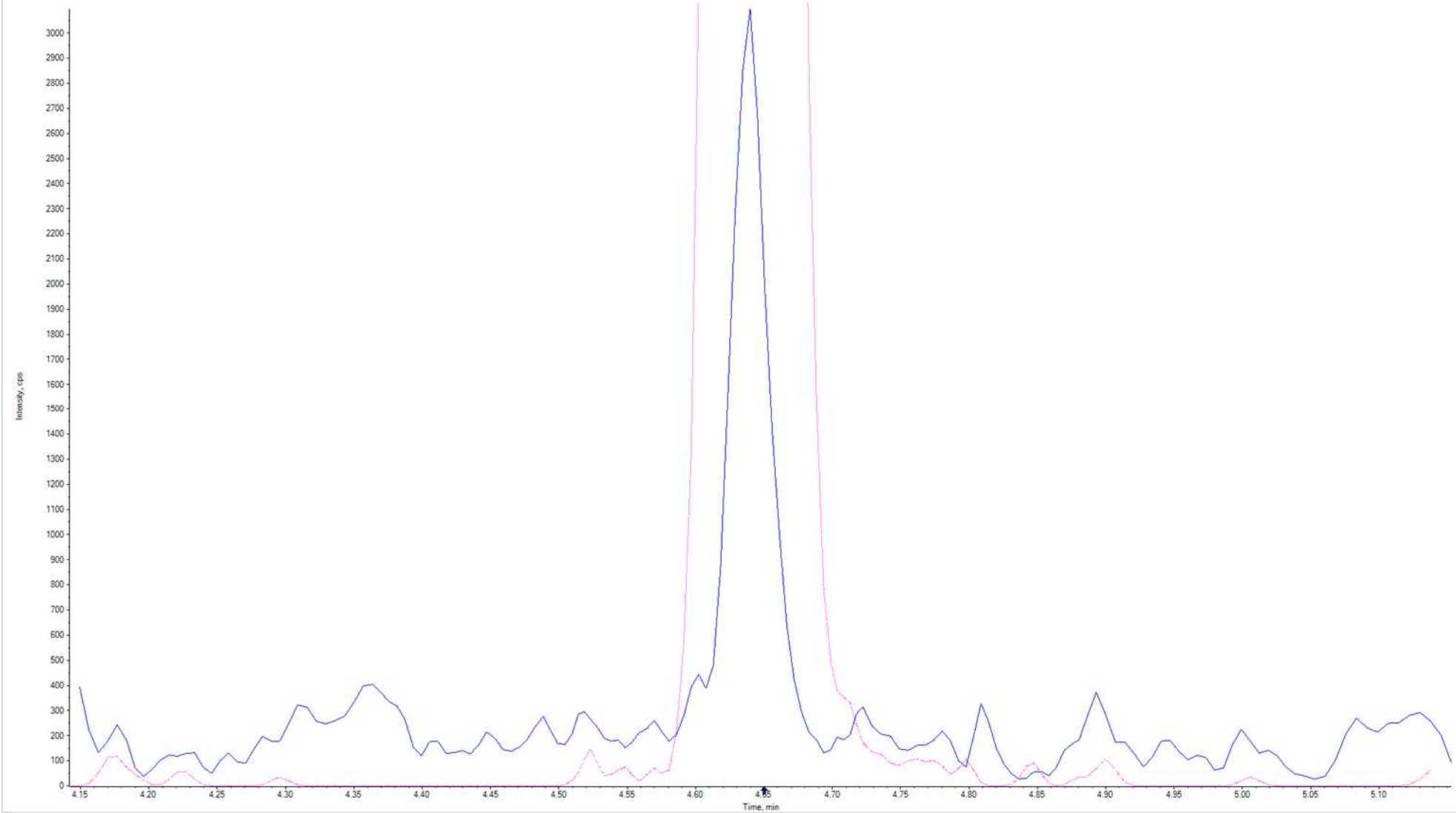
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PFUnA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



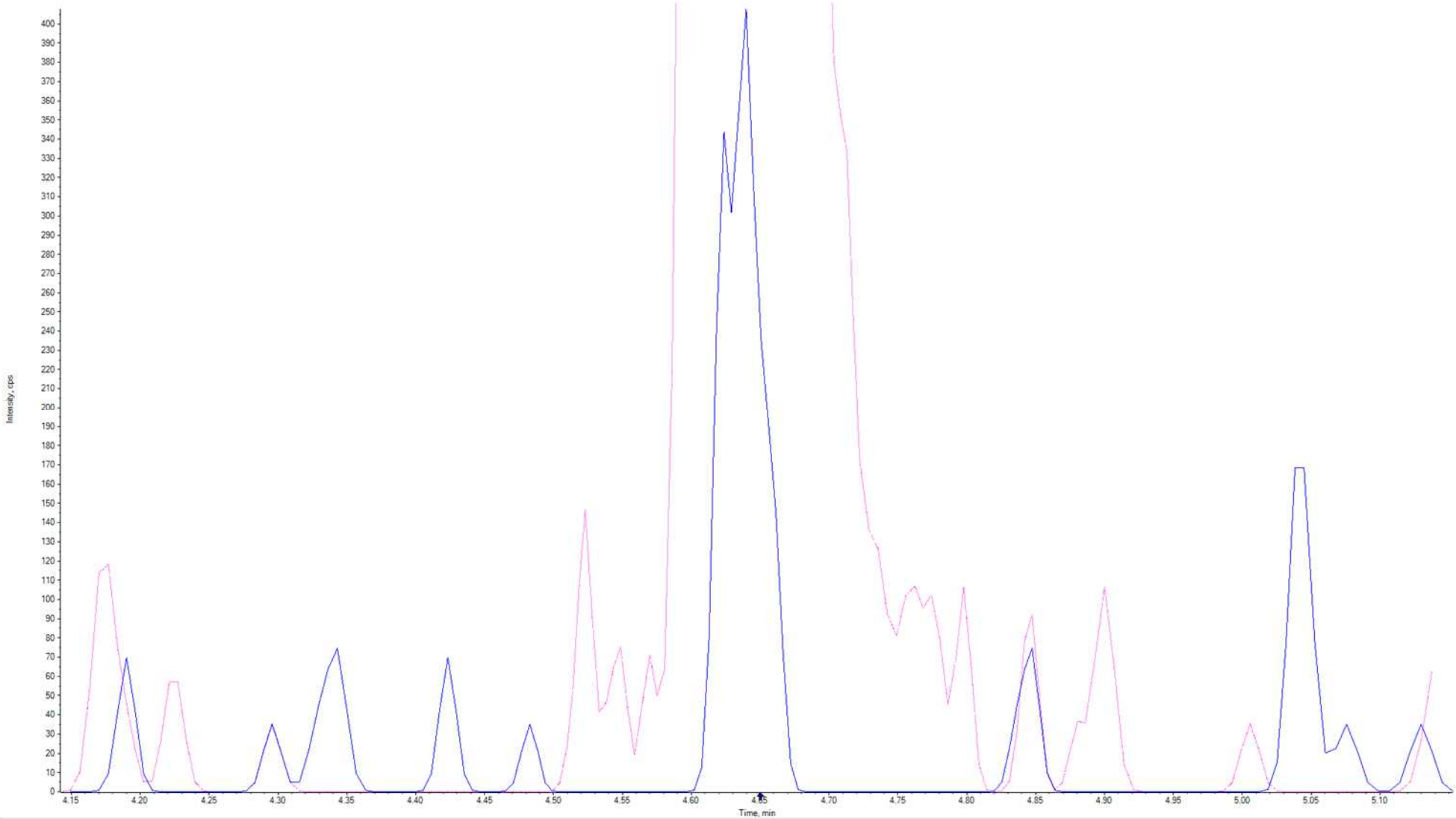
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PFDoA
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



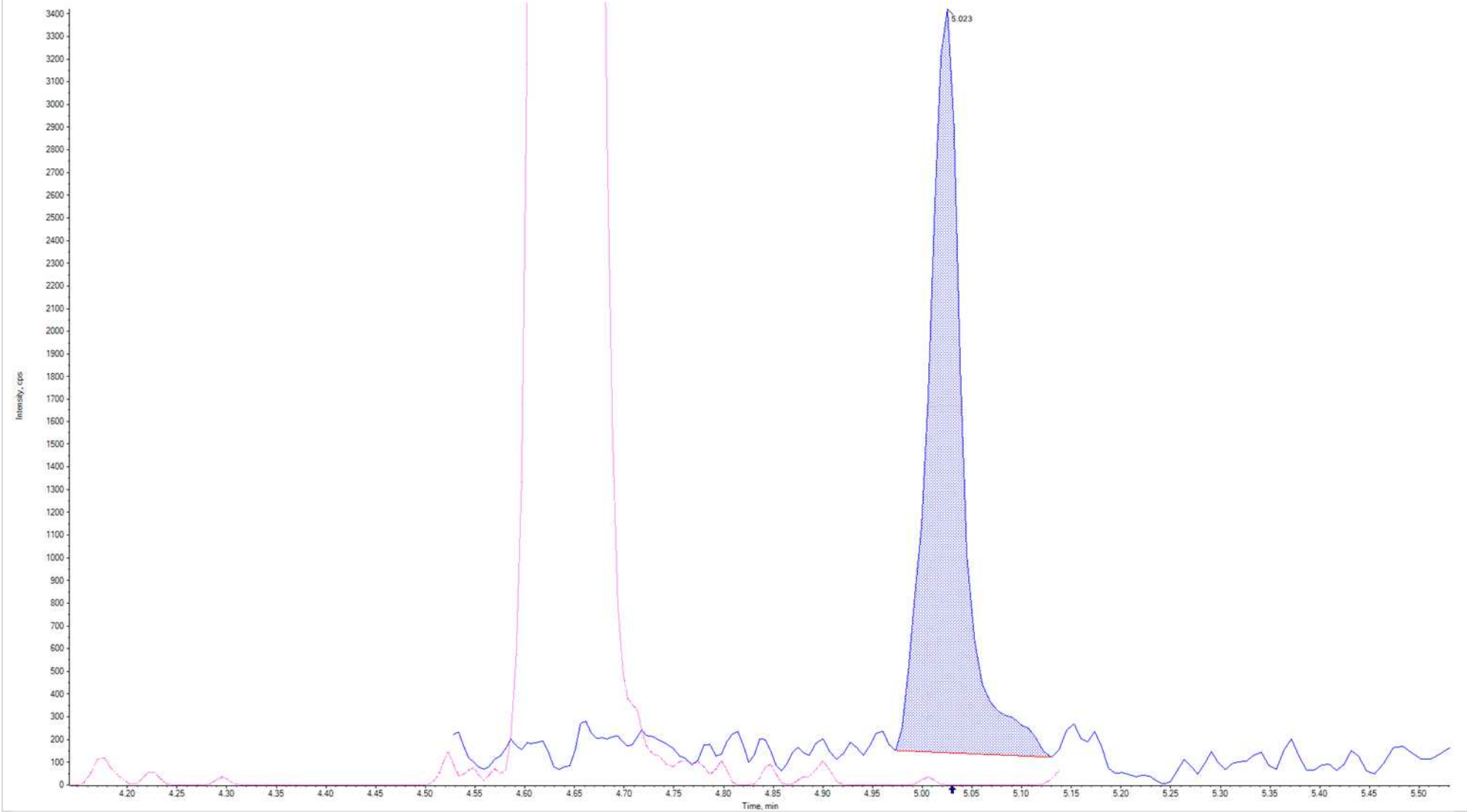
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Generated: 3/4/2025 5:58:35 AM

PFDoA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



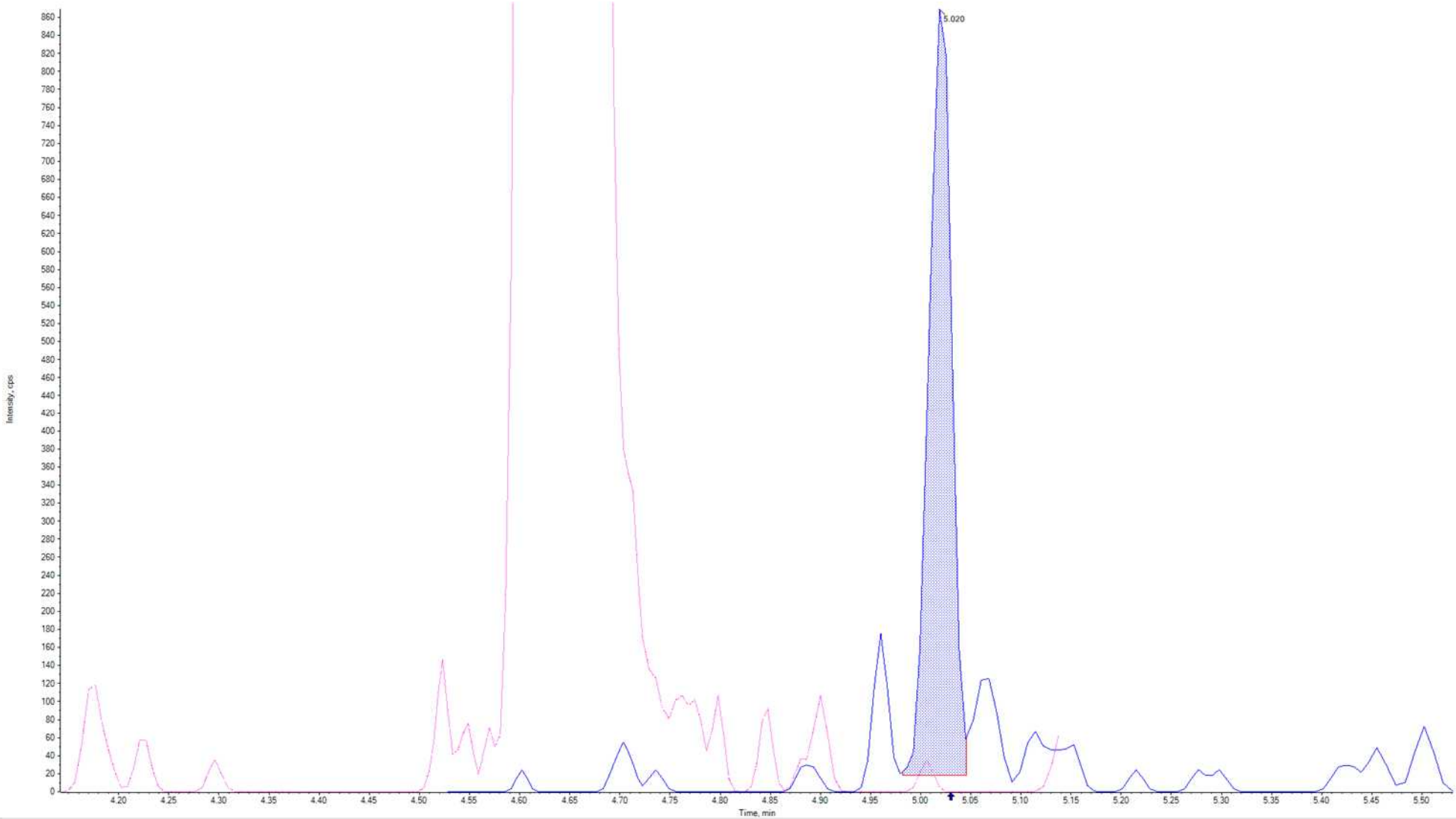
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PFTrDA
Sample: WG2035972-2,INSTBLANK S/N:131.5 Points Across peak:23



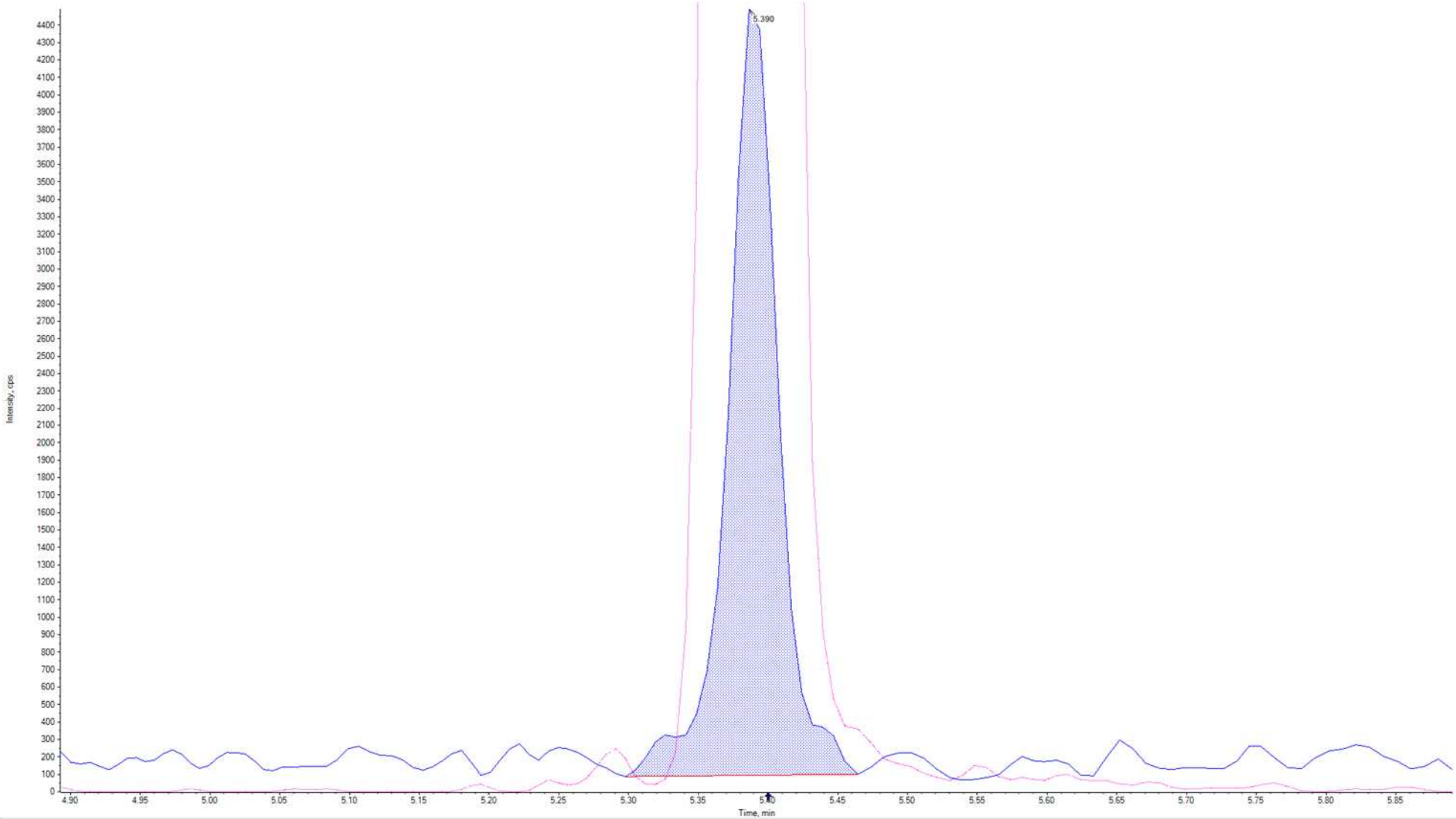
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Alpha Analytical LLC
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PFTrDA_2
Sample: WG2035972-2,INSTBLANK S/N:34.1 Points Across peak:12



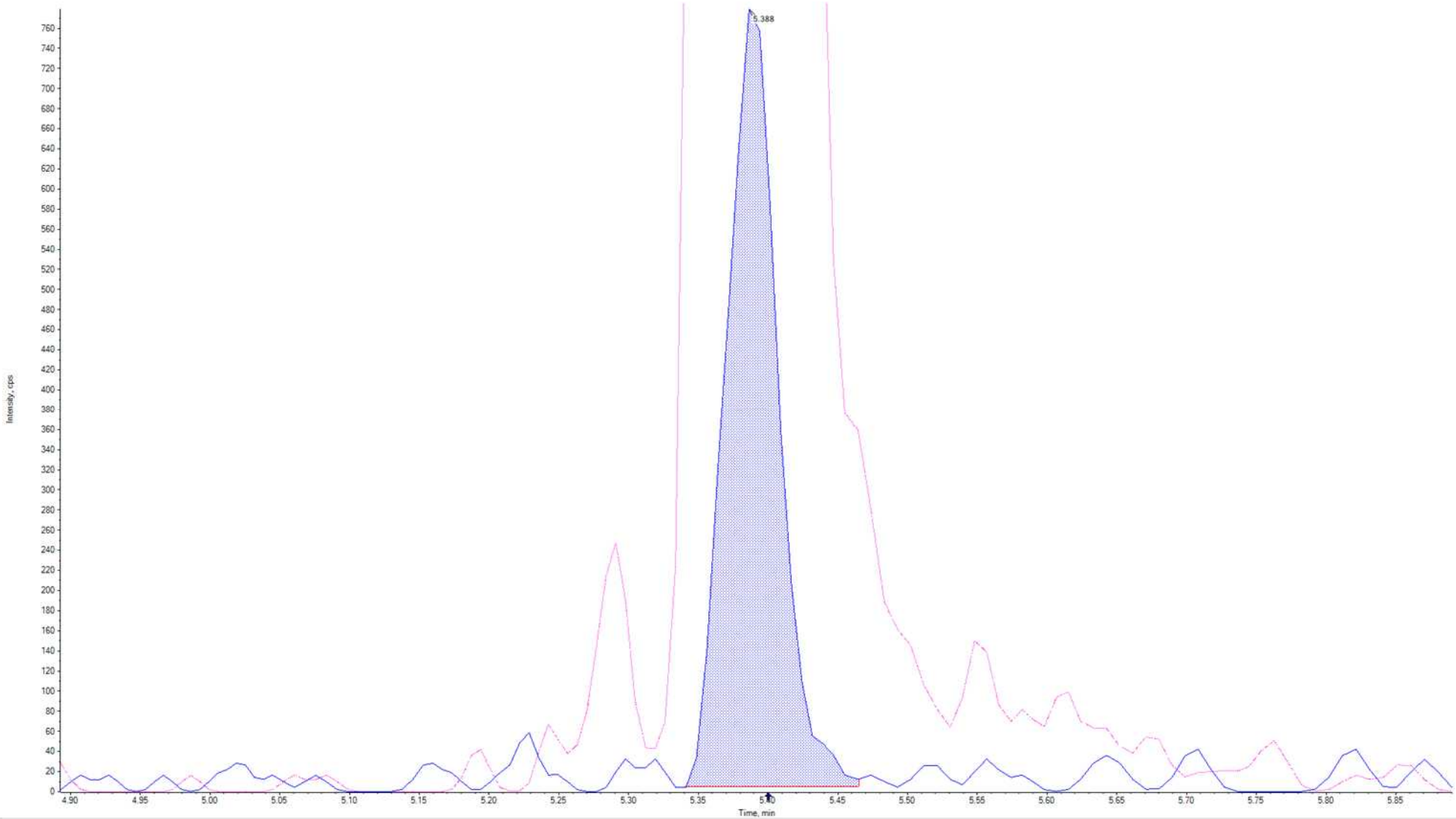
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PFTeDA
Sample: WG2035972-2,INSTBLANK S/N:195.7 Points Across peak:23



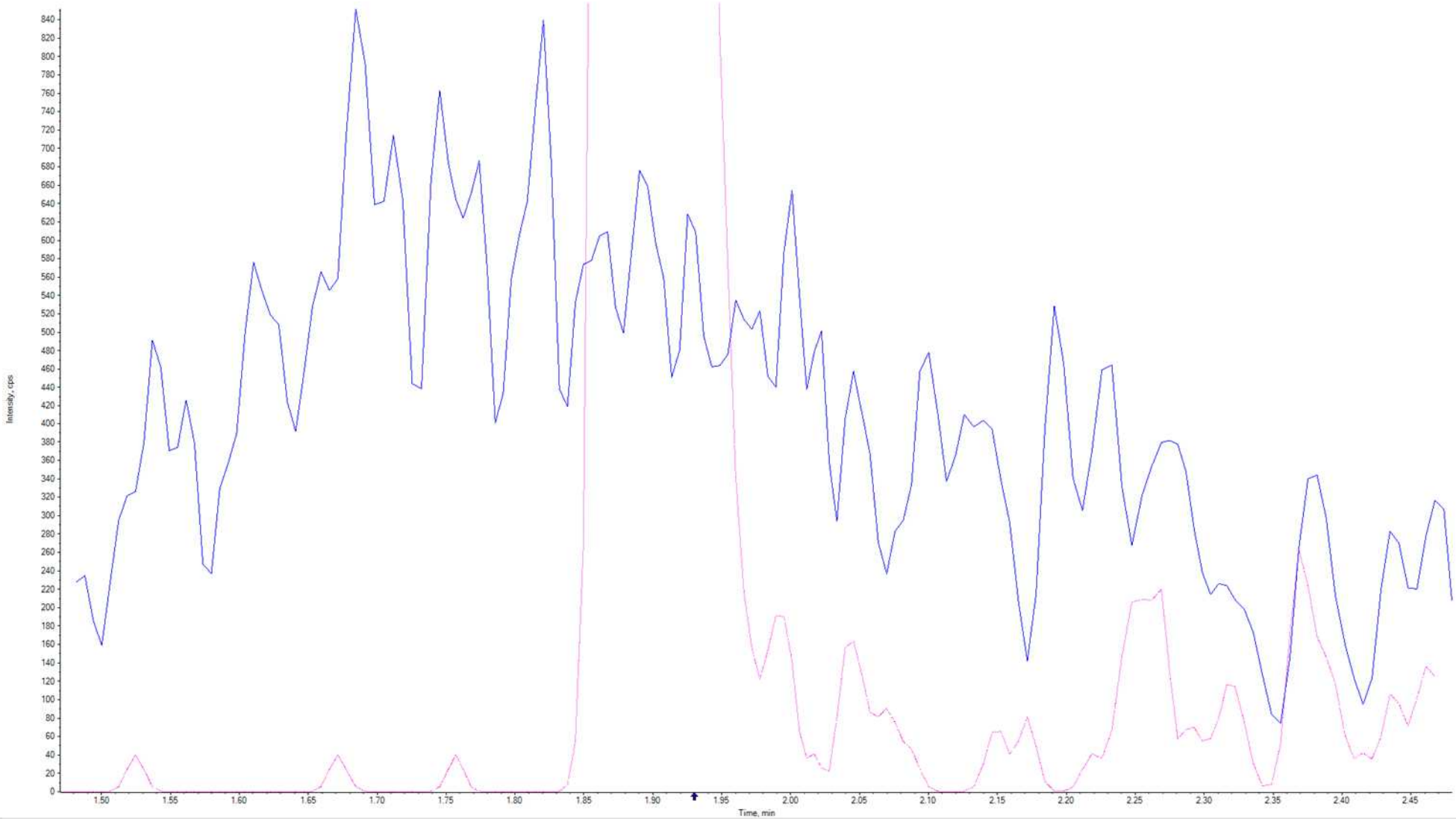
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PFTeDA_2
Sample: WG2035972-2,INSTBLANK S/N:48.5 Points Across peak:19



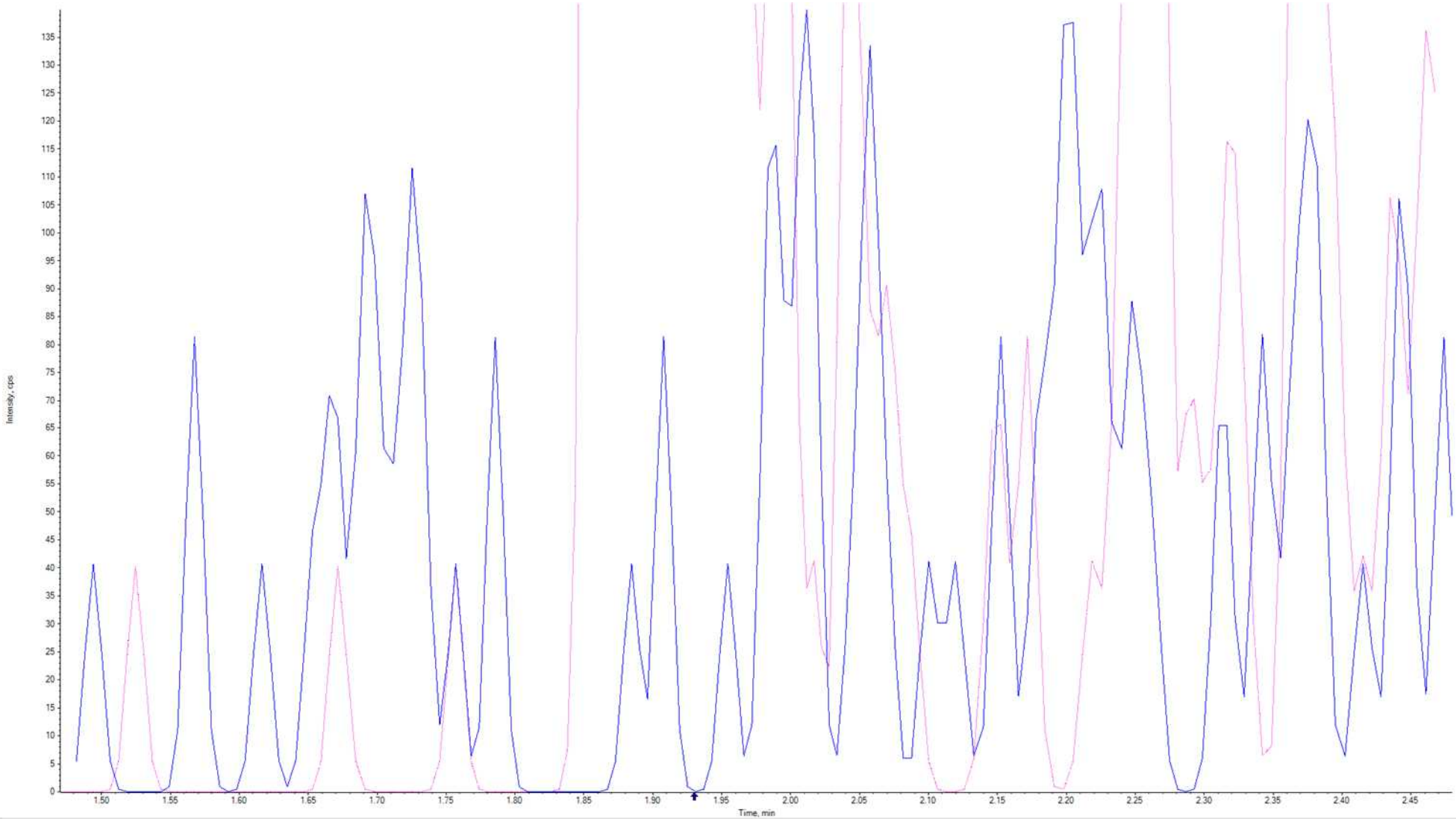
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PFBS
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



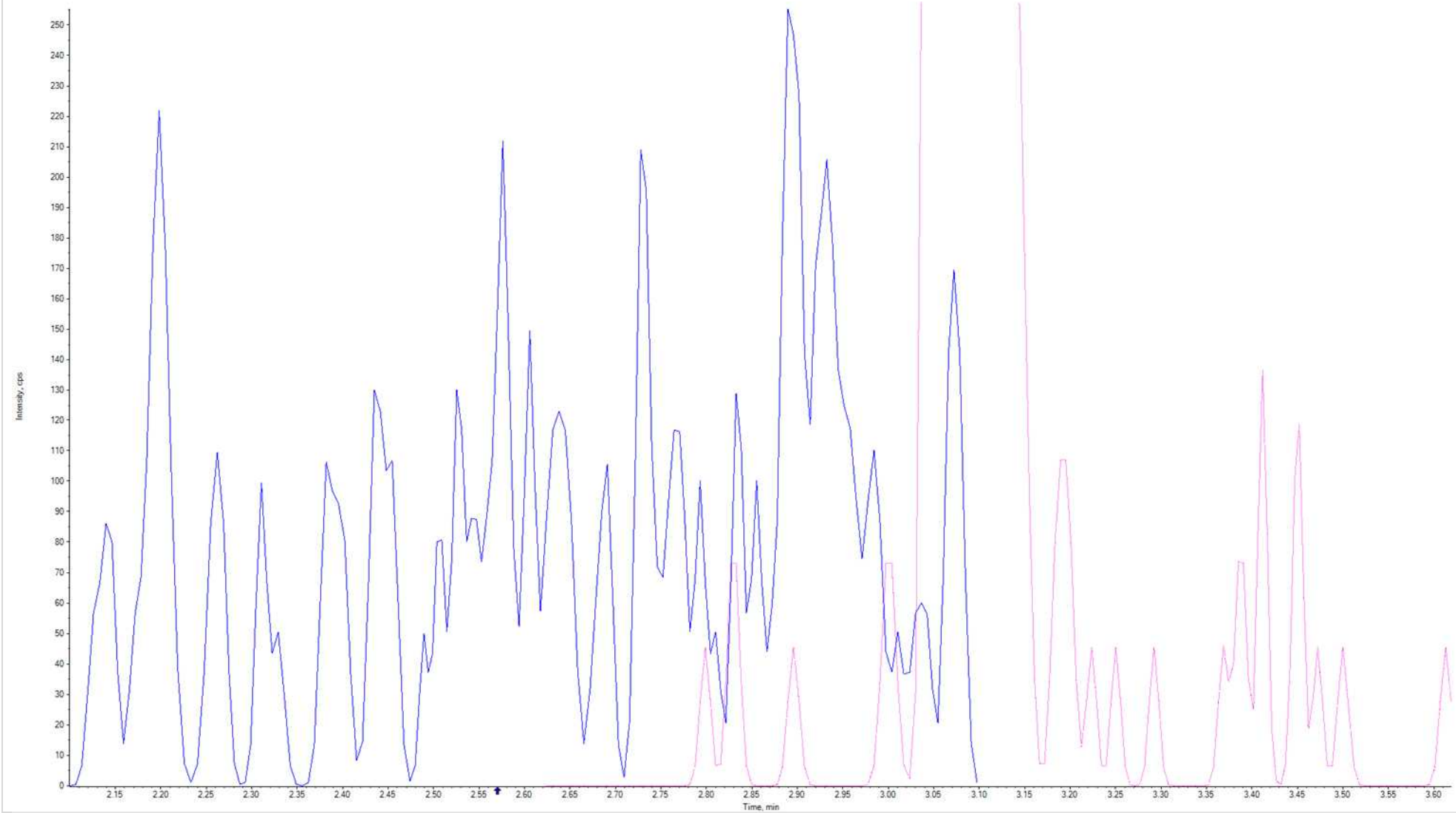
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PFBS_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



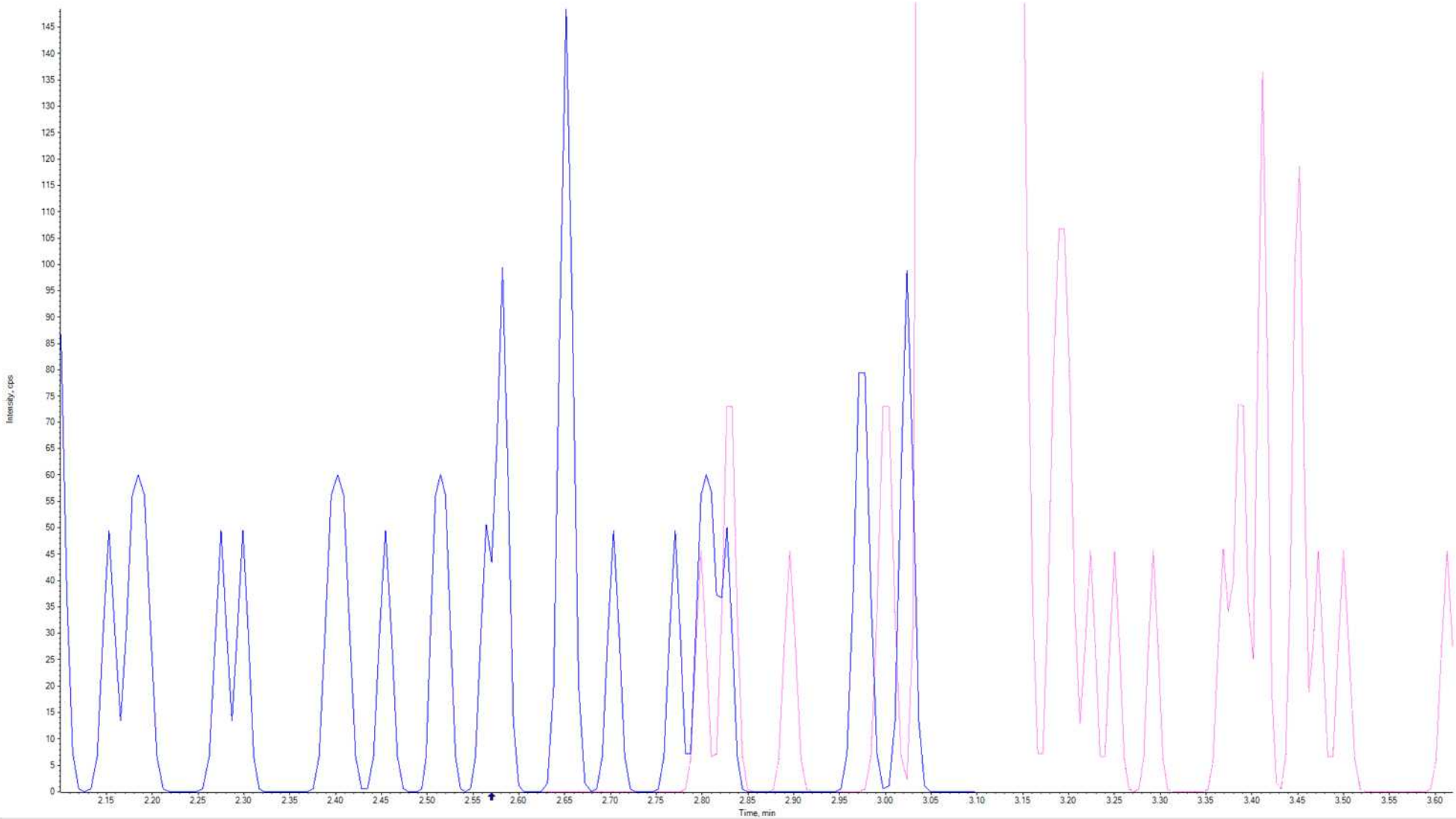
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PFPeS
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



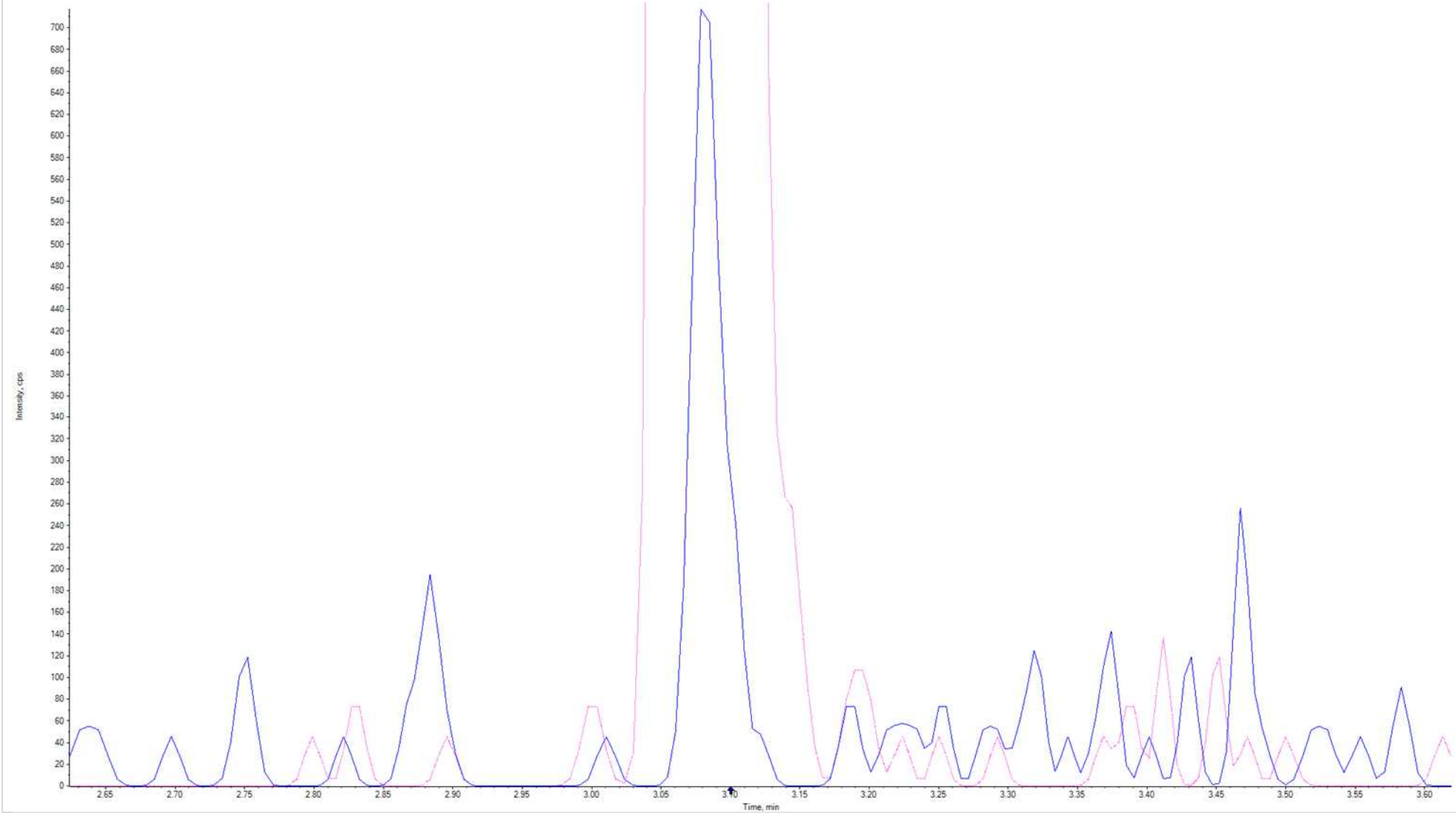
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFPeS_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



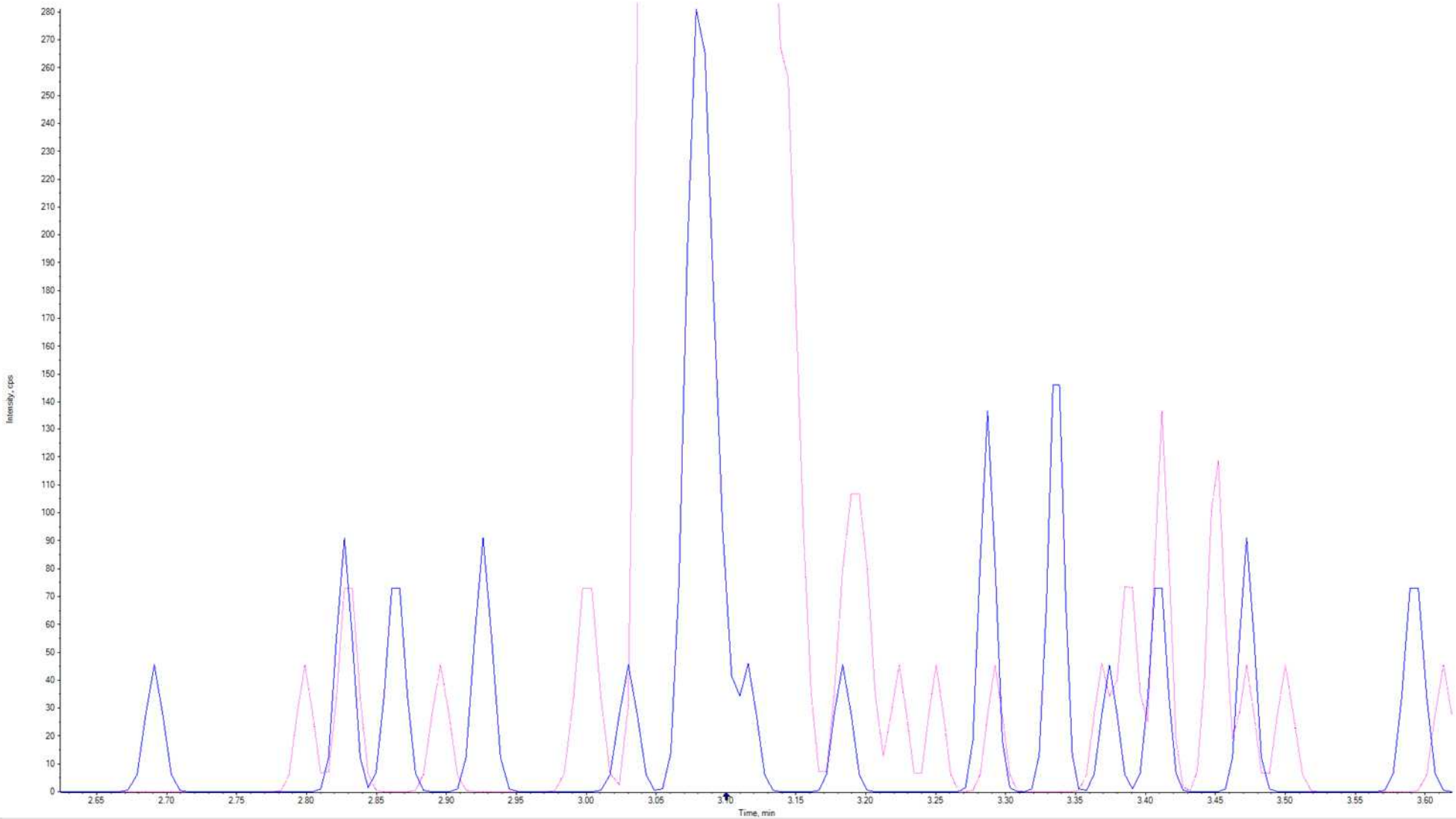
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFHxS
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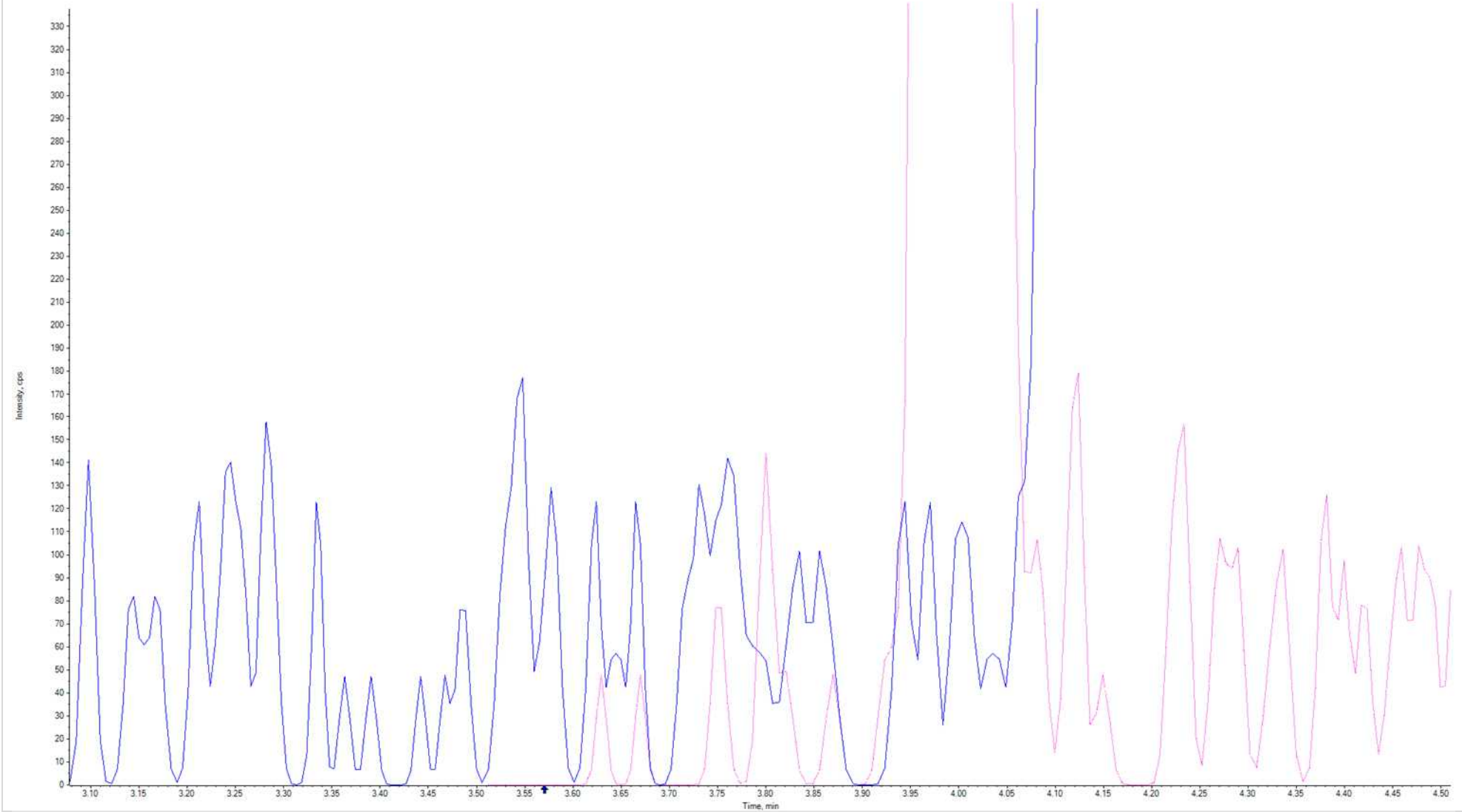
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Generated: 3/4/2025 5:58:35 AM

PFHxS_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



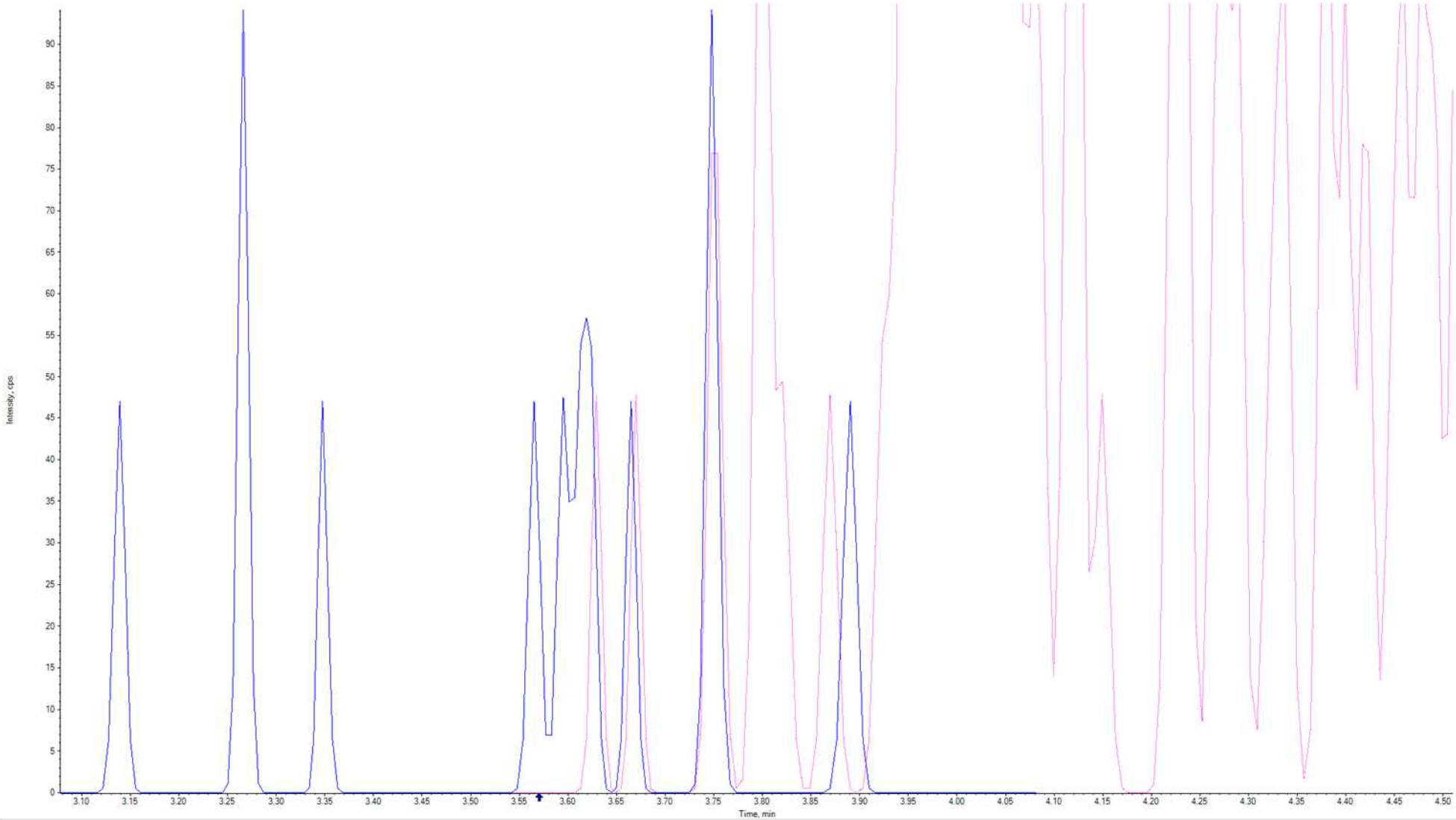
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_31.wiff2_1
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFHpS
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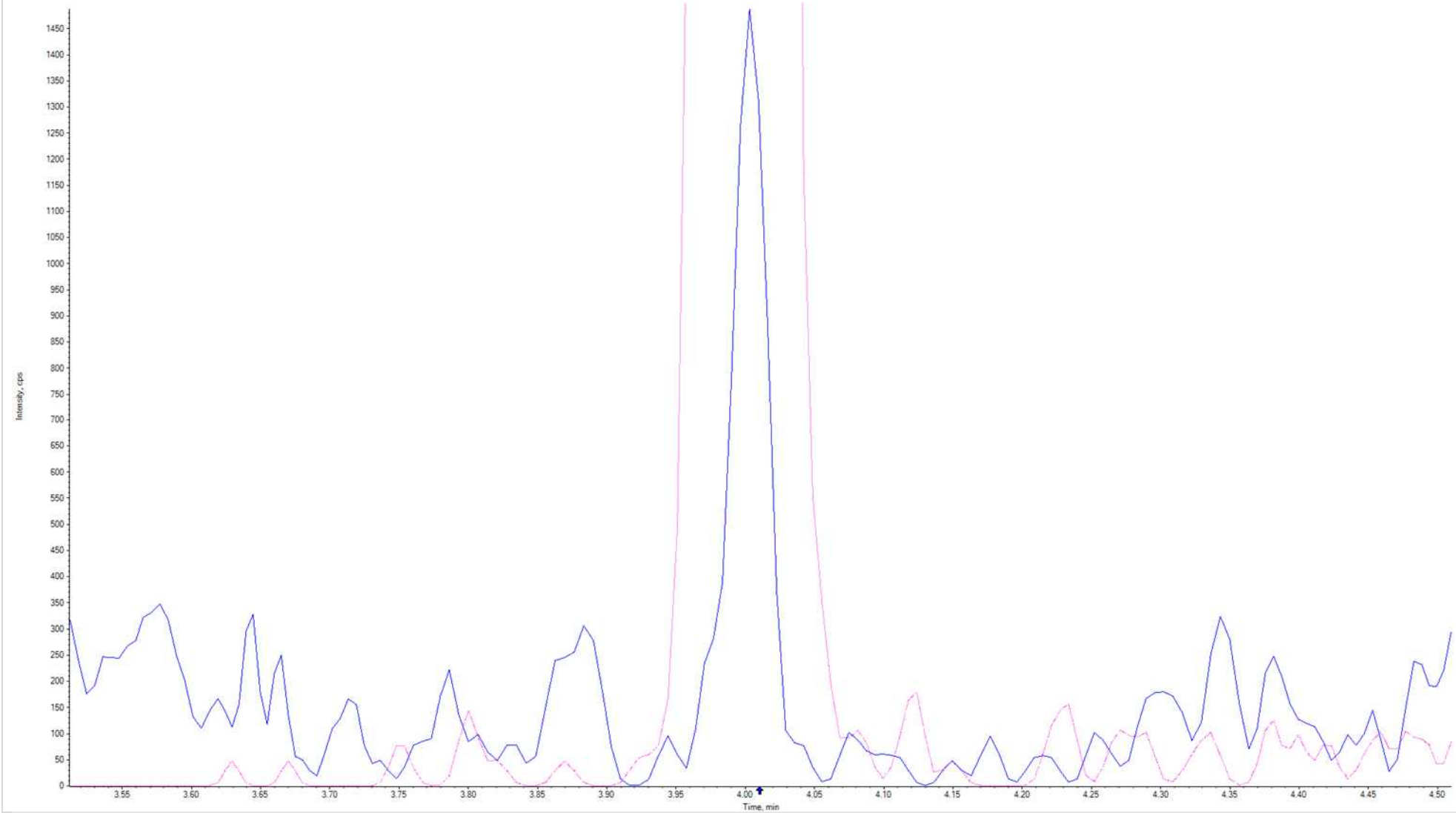
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
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PFHpS_2
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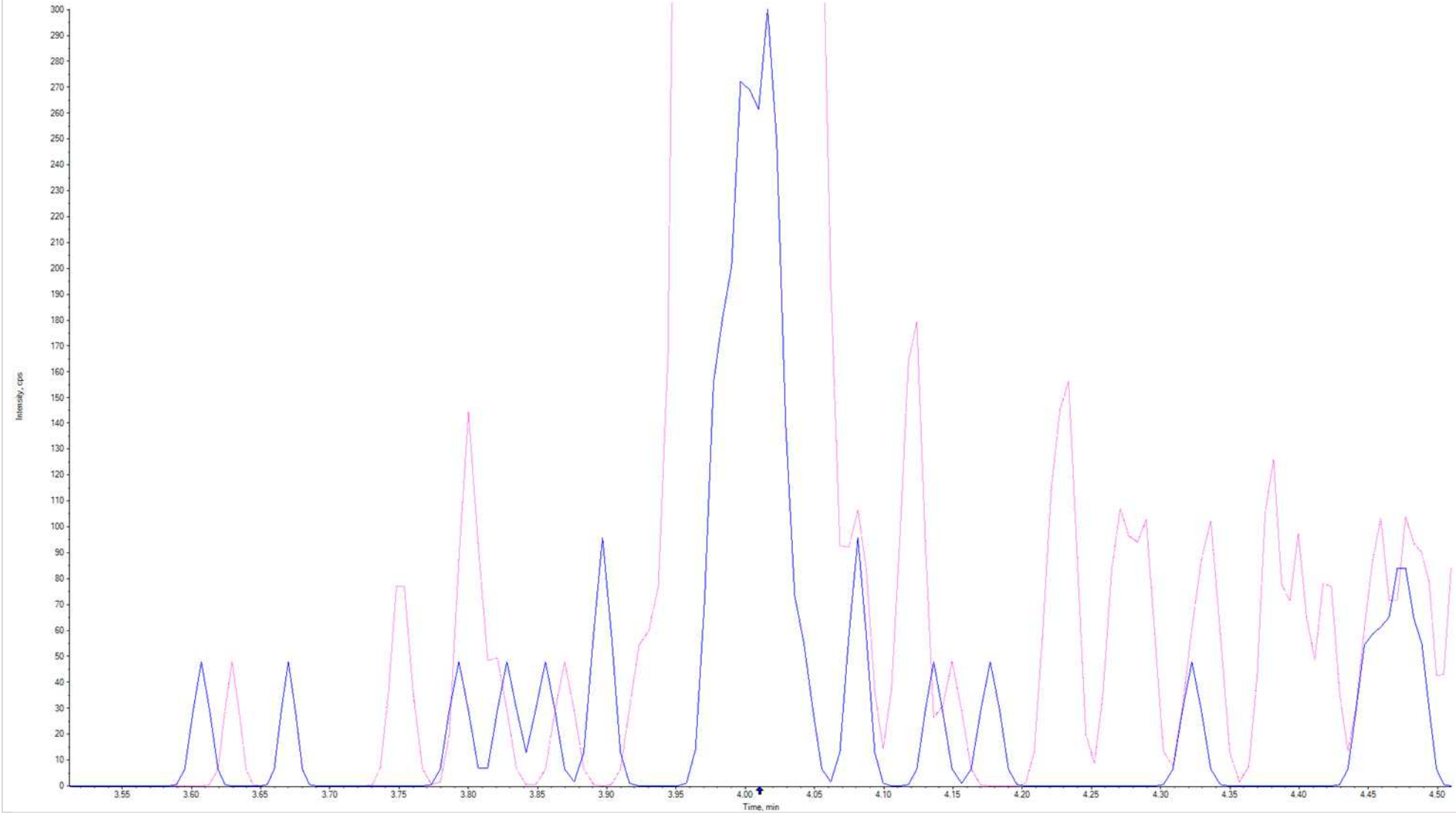
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Alpha Analytical LLC
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PFOS
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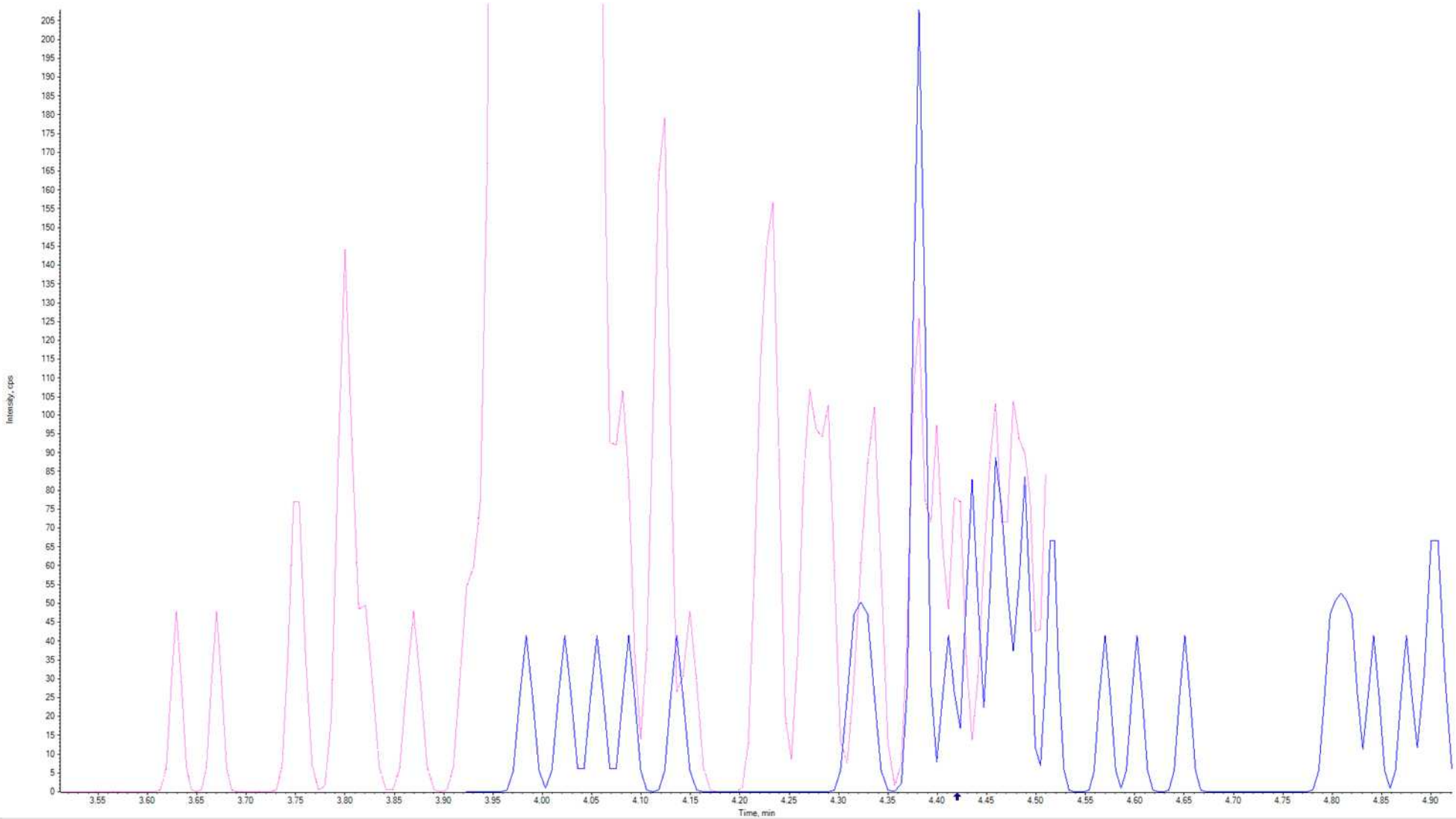
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

PFOS_2
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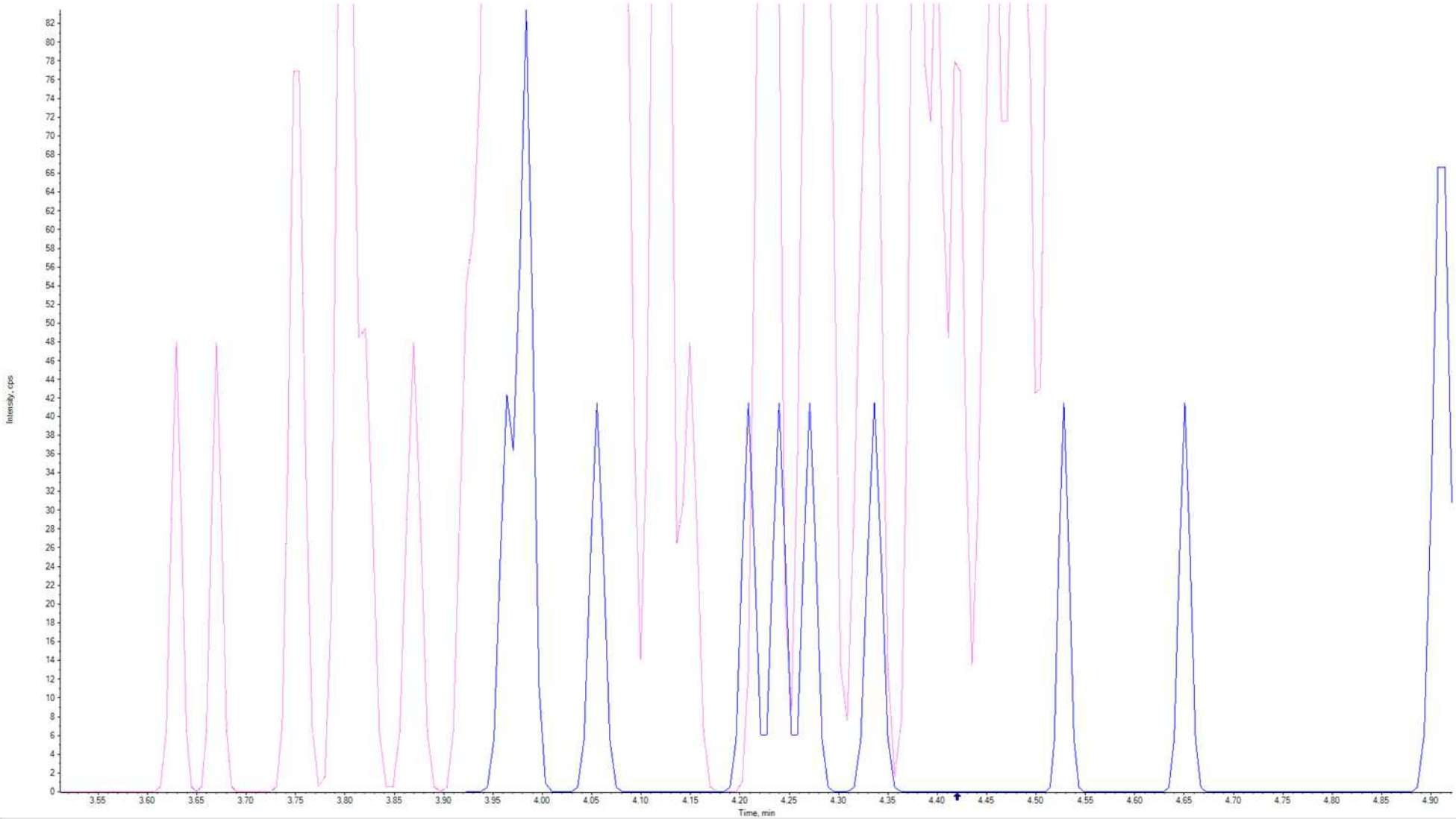


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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFNS
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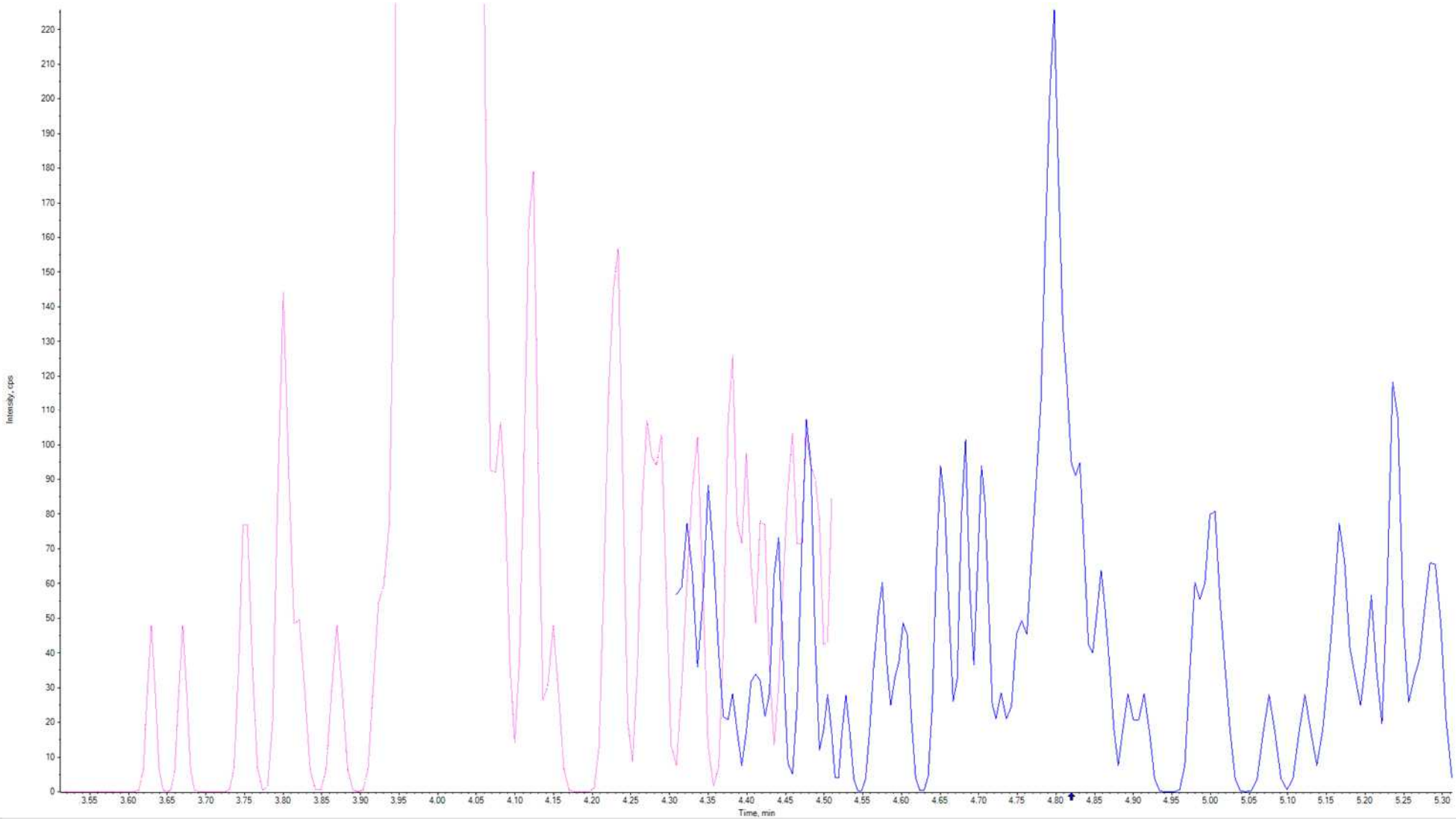


PFNS_2
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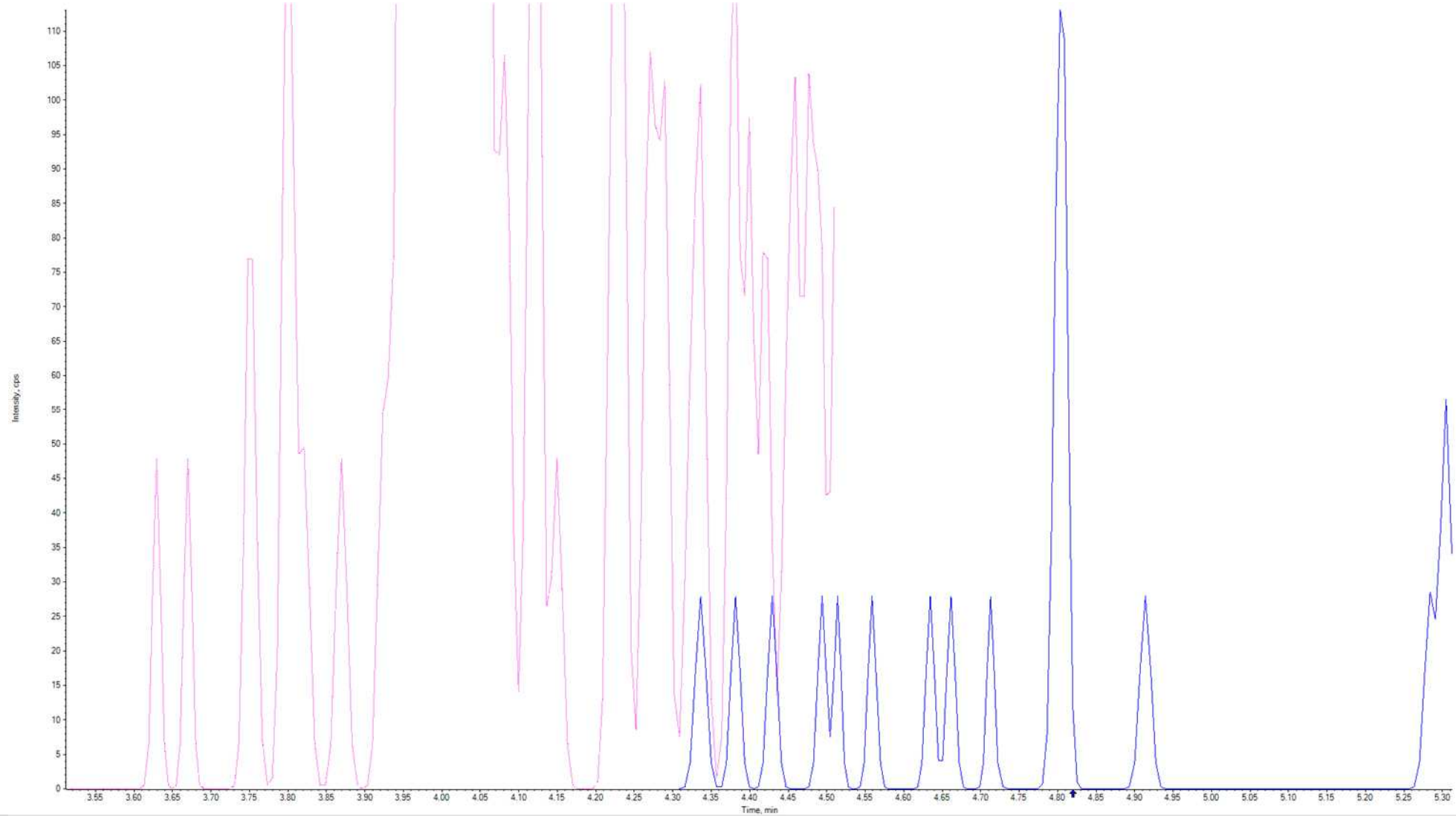
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

PFDS
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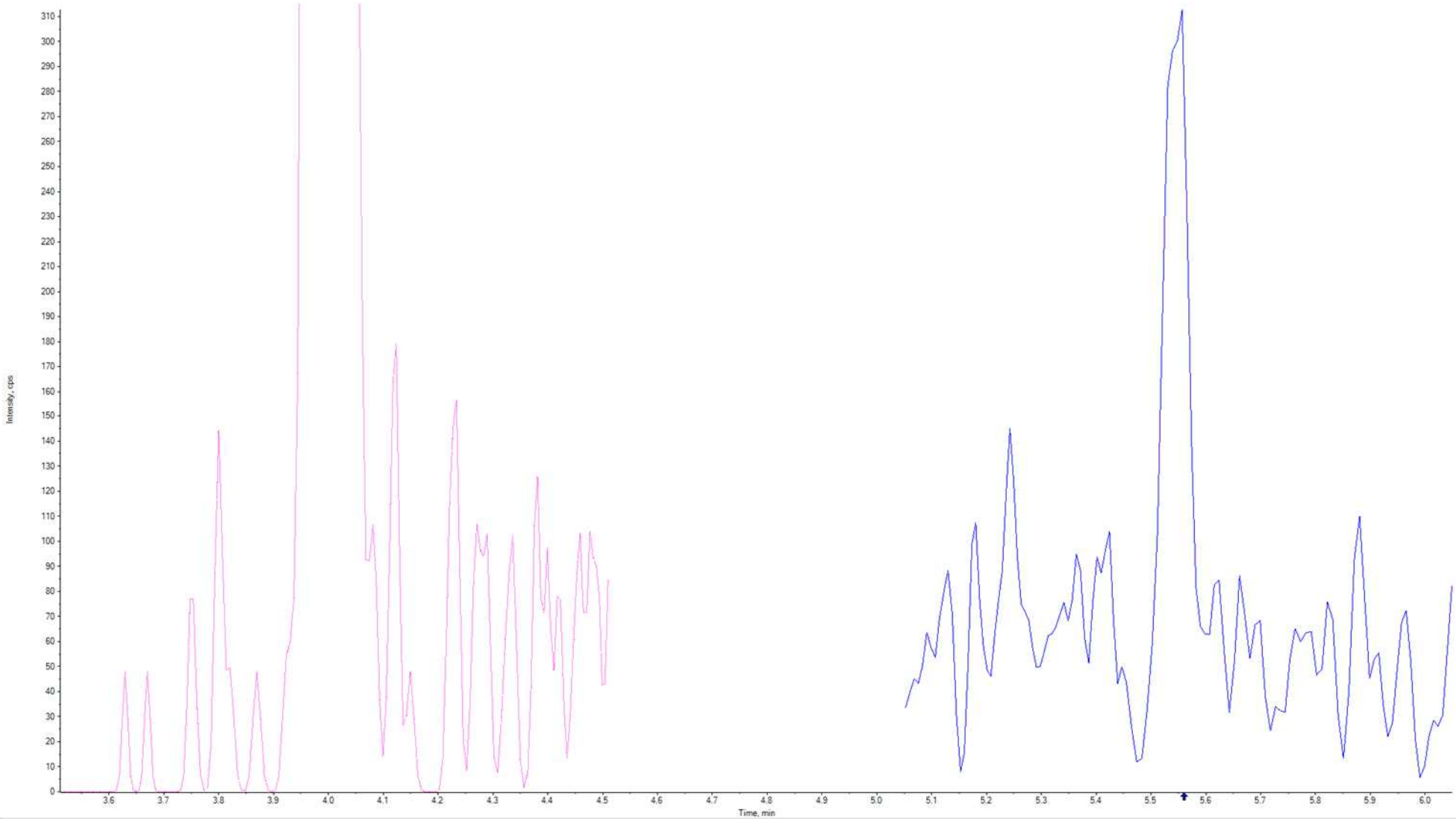
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFDS_2
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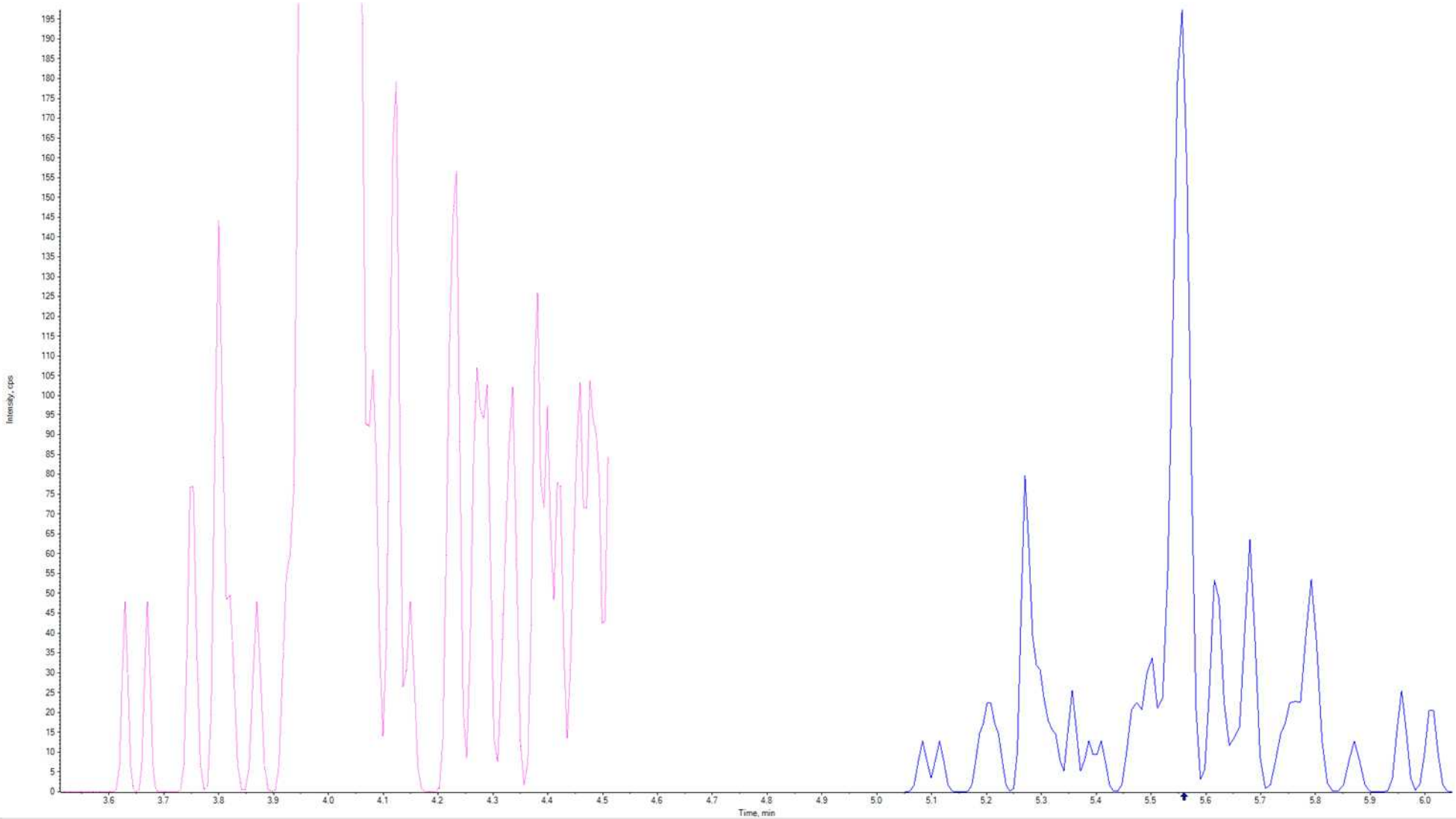
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

PFDoS
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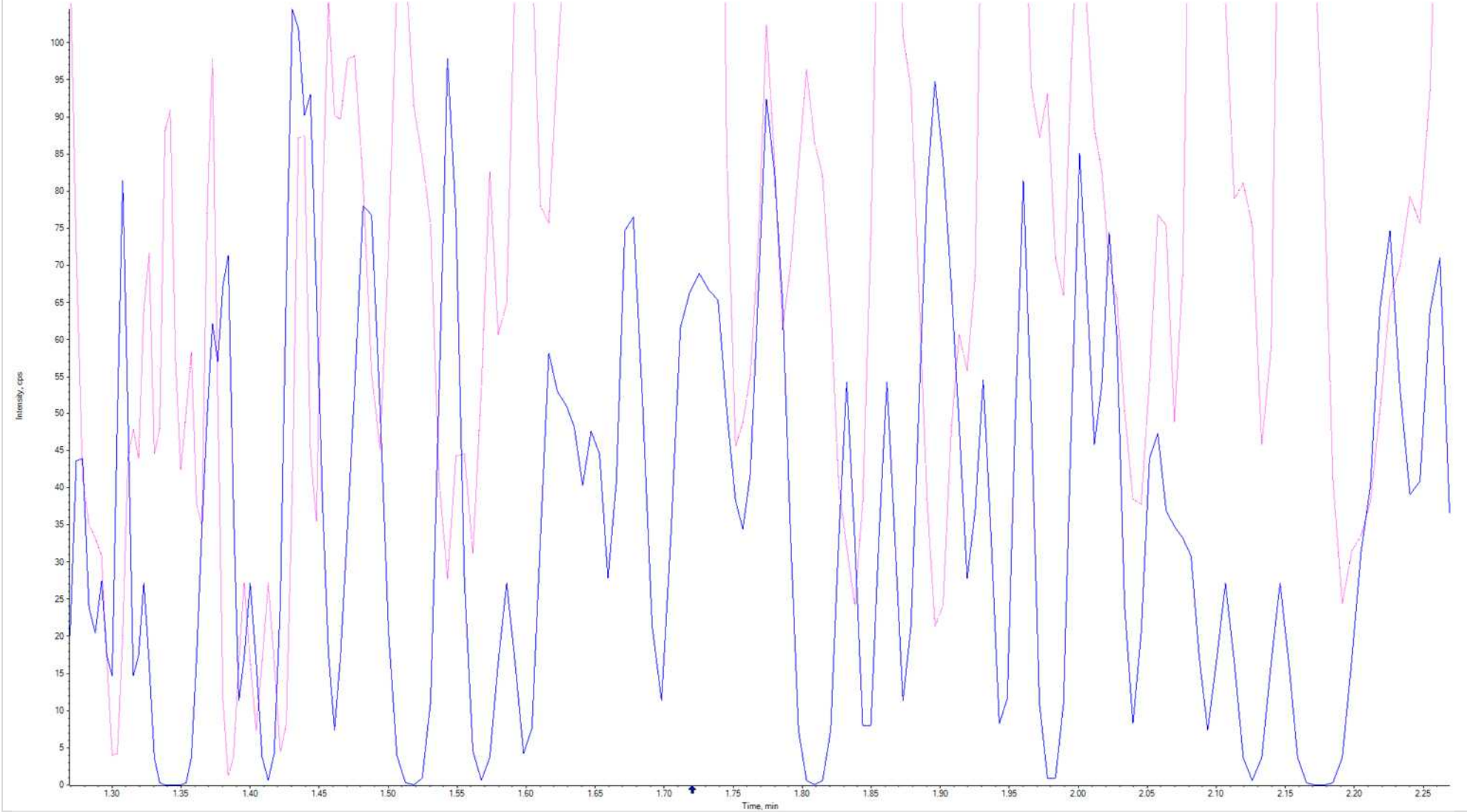


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFDoS_2
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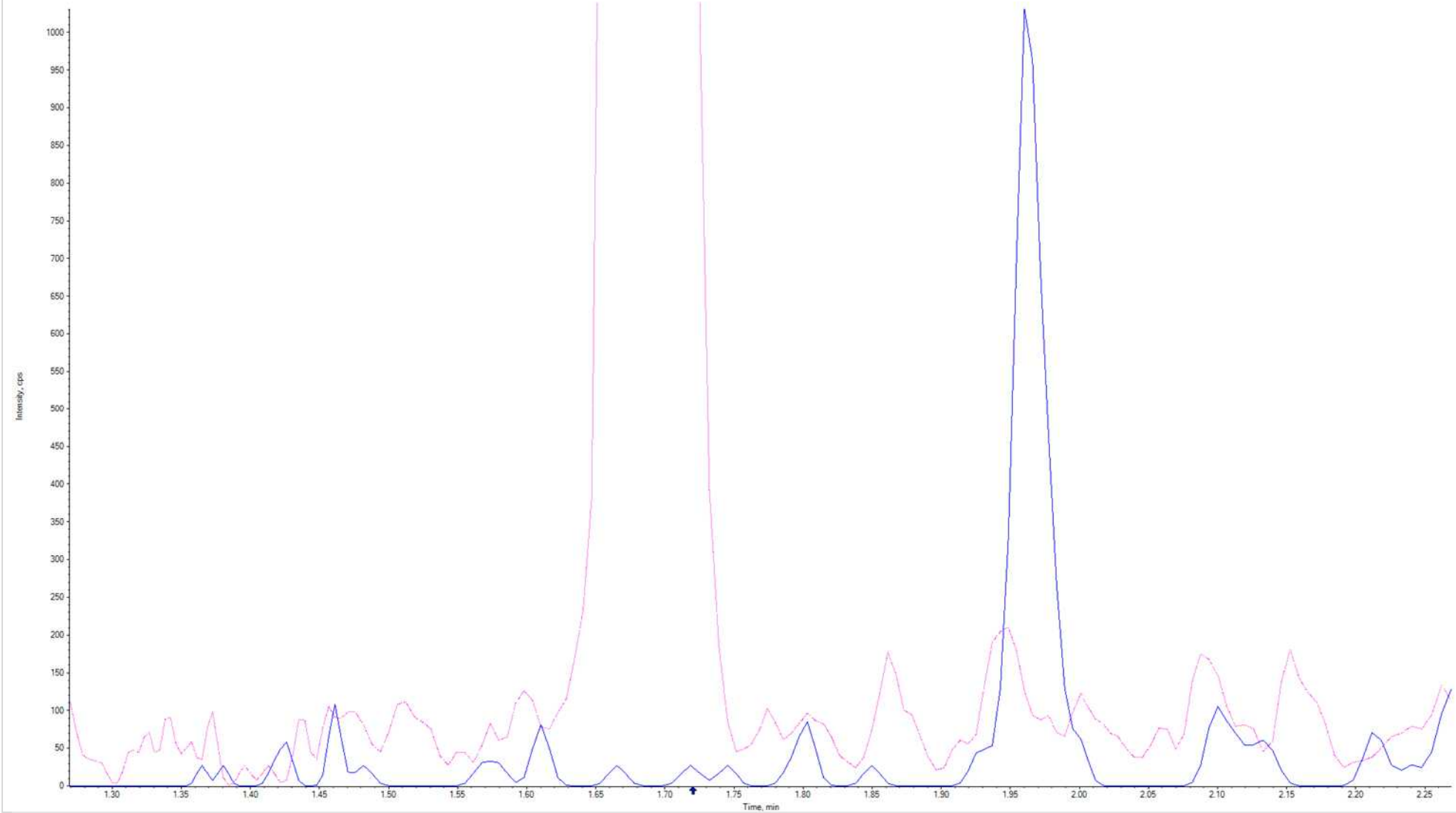


4:2FTS
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



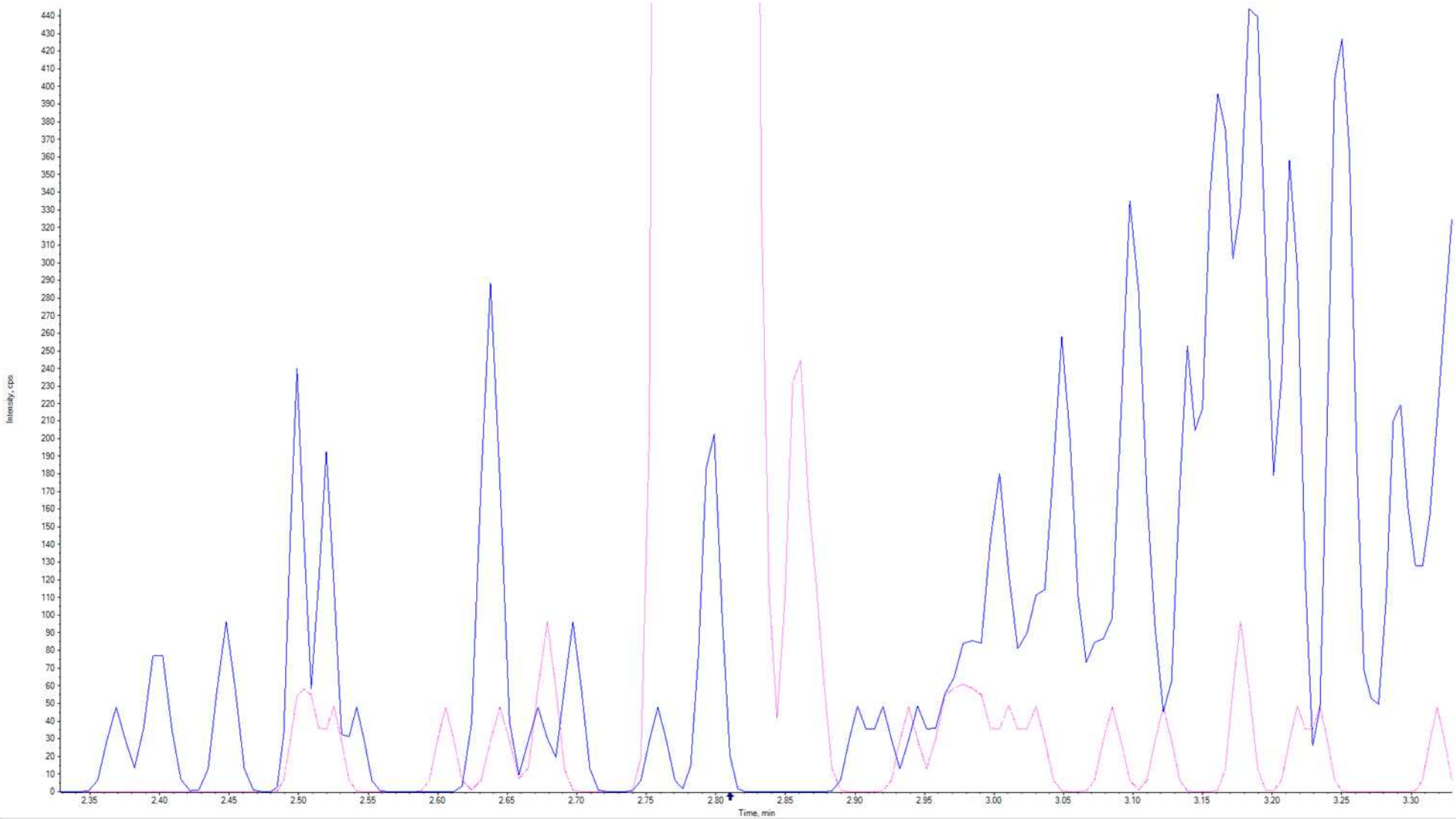
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

4:2FTS_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



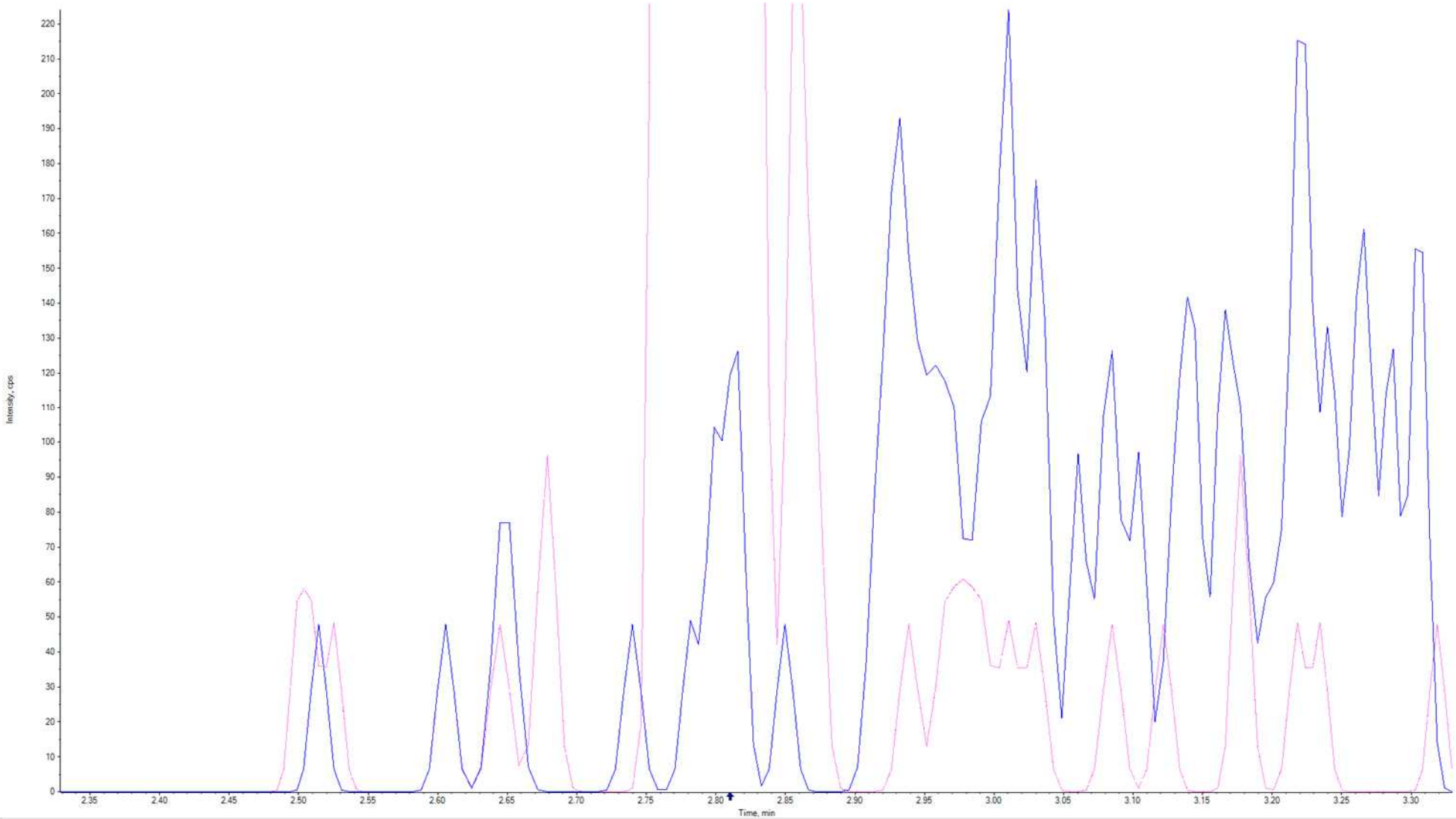
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

6:2FTS
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



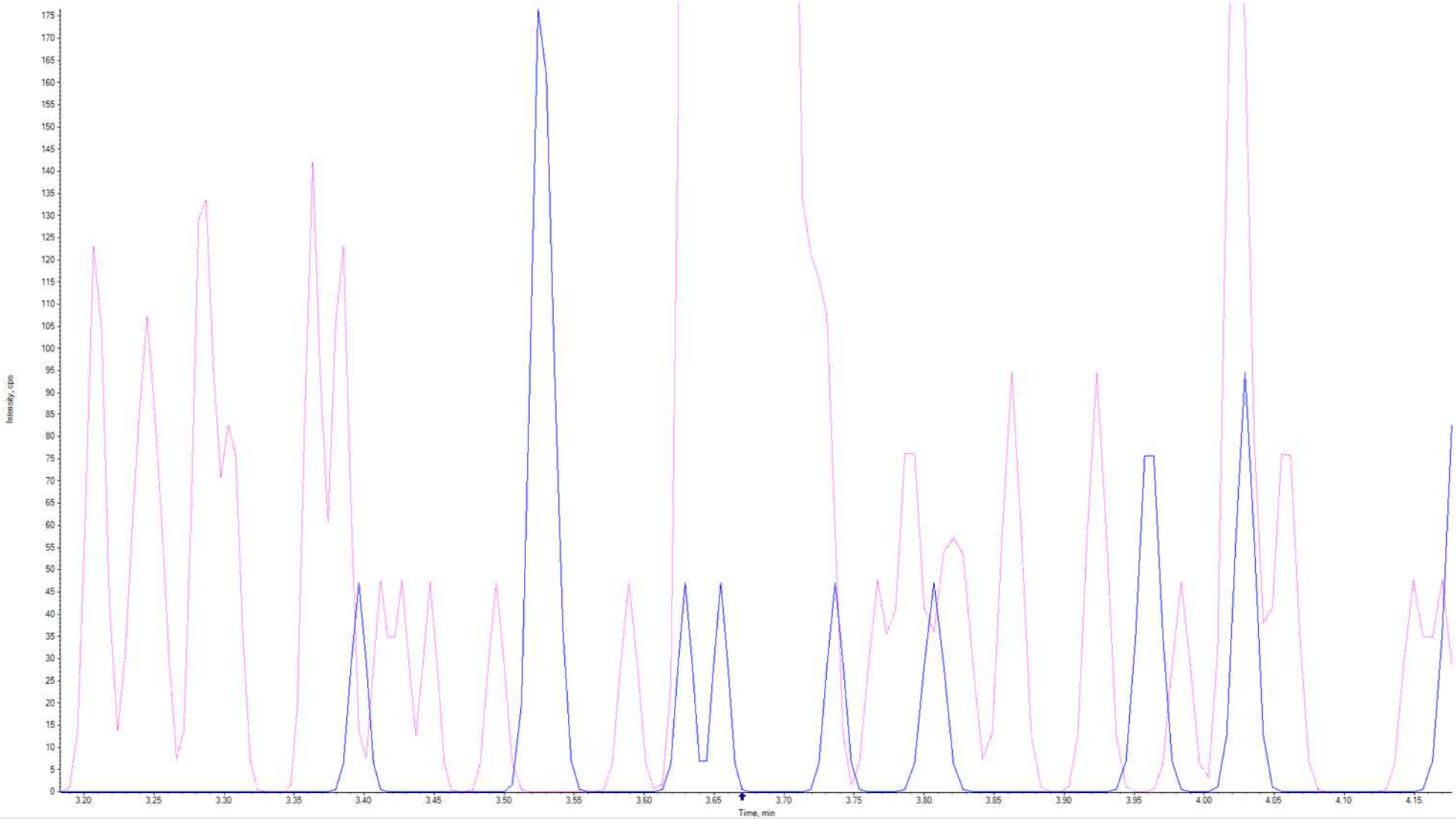
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Last Altered: 3/4/2025 10:08:00 AM
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6:2FTS_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



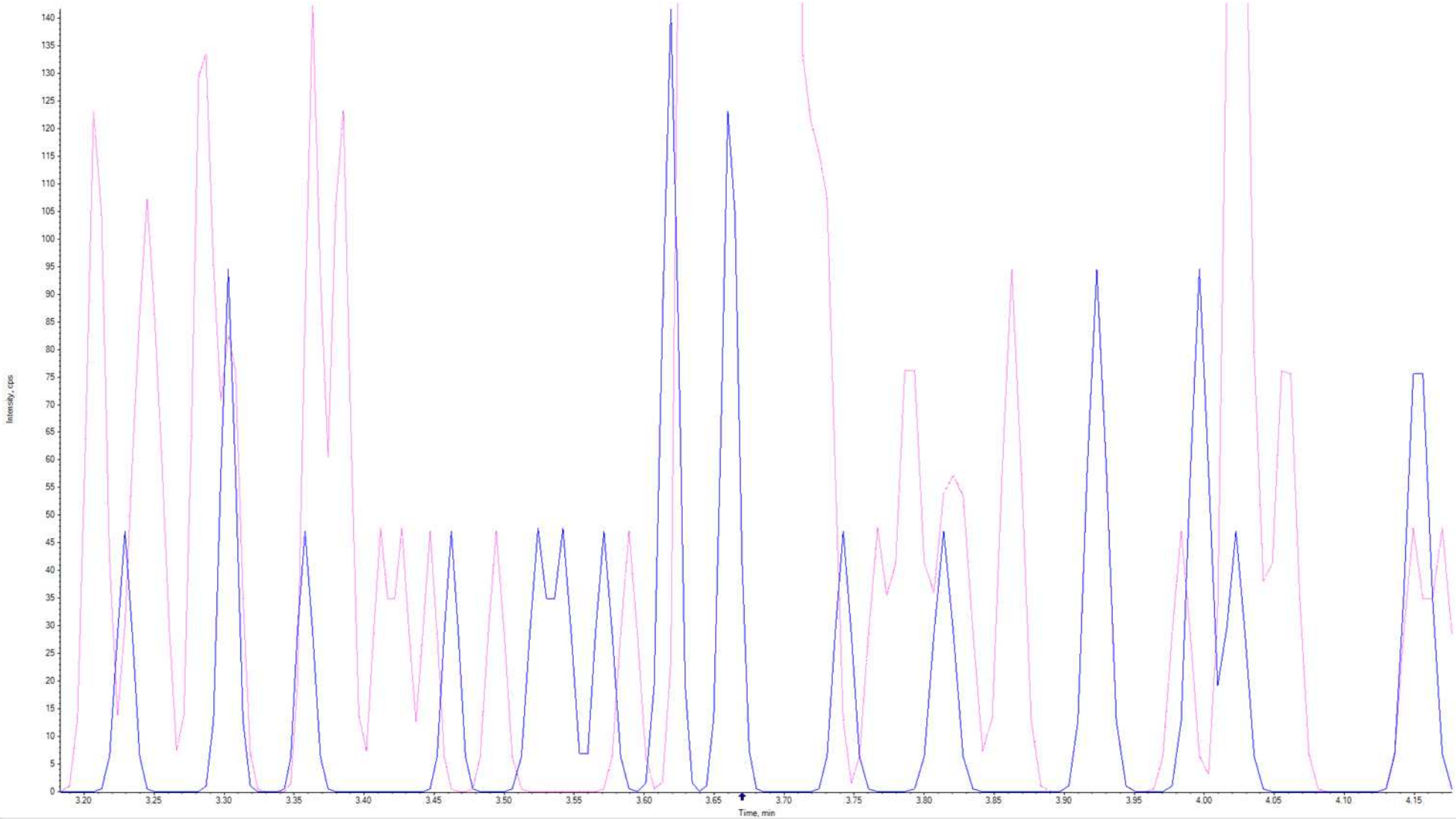
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

8:2FTS
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



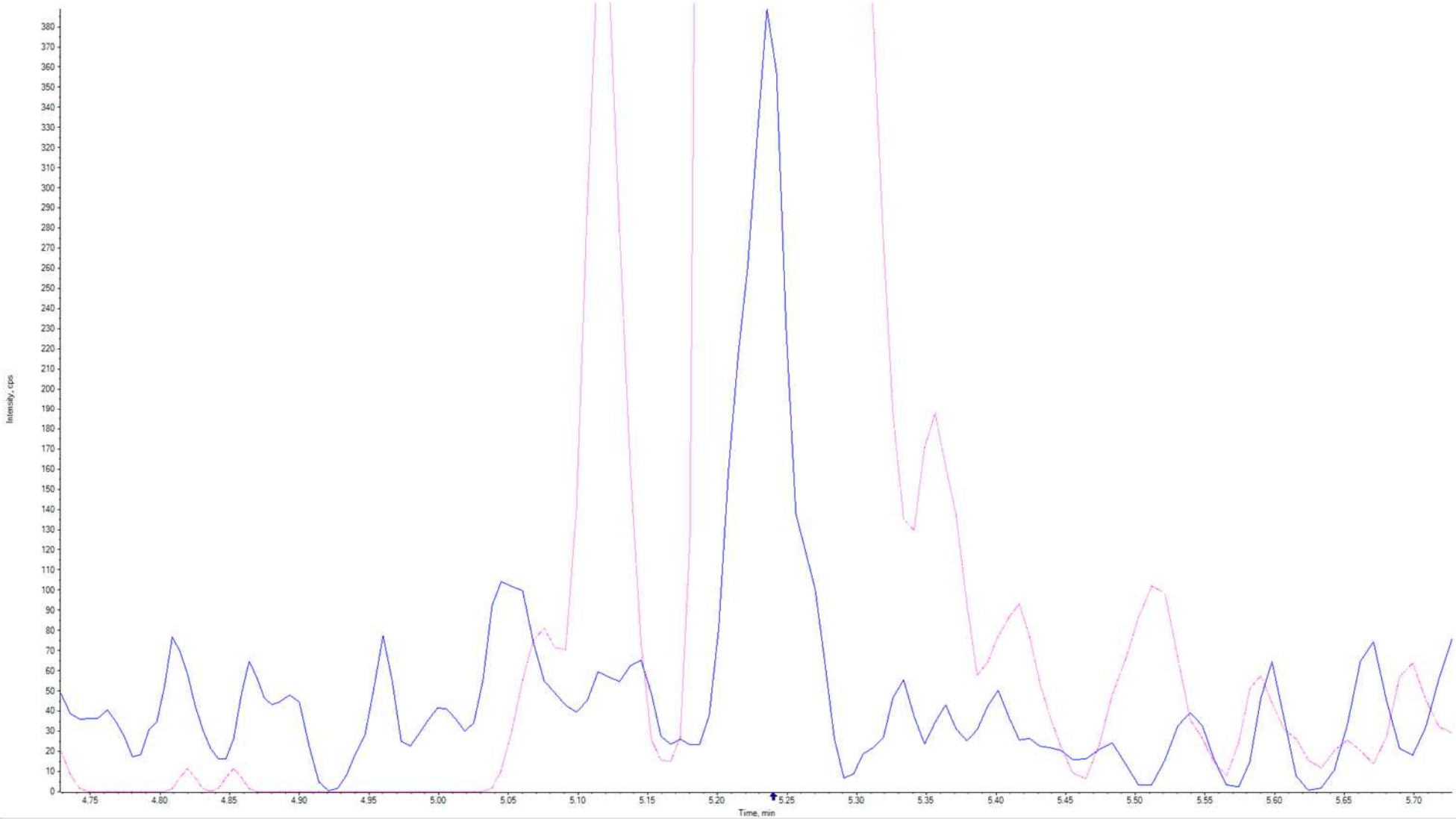
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

8:2FTS_2
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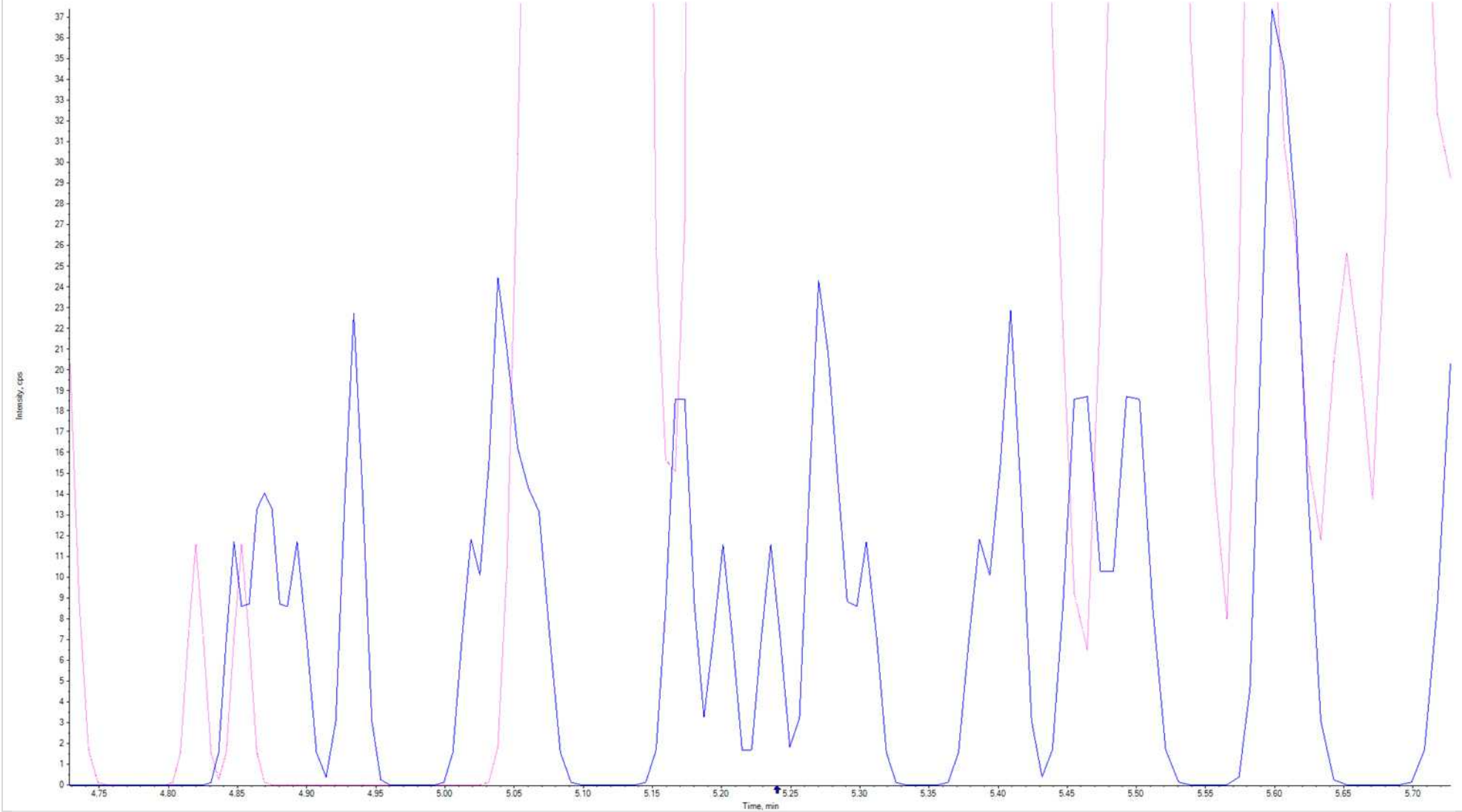
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFOSA
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



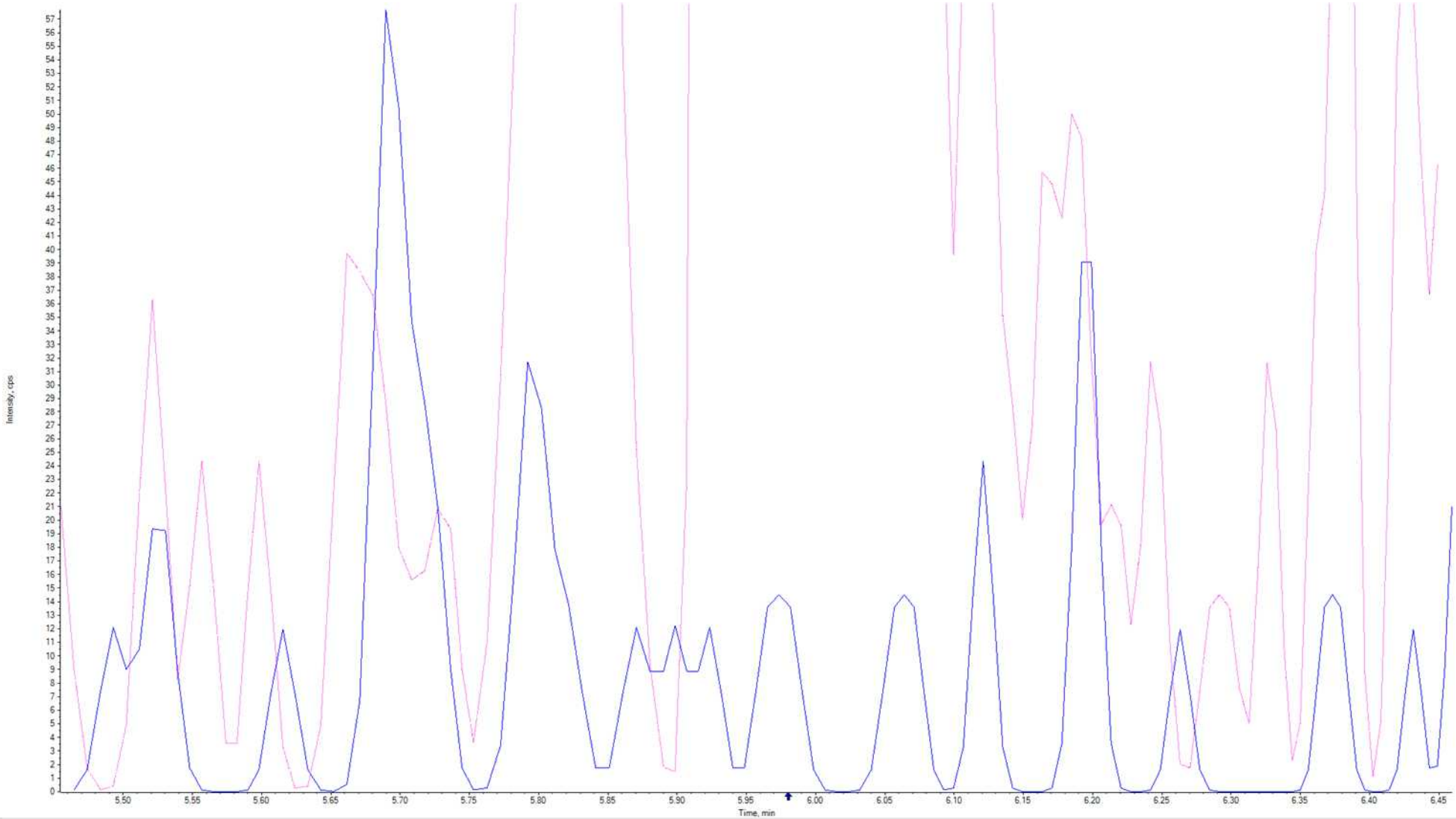
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

PFOSA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



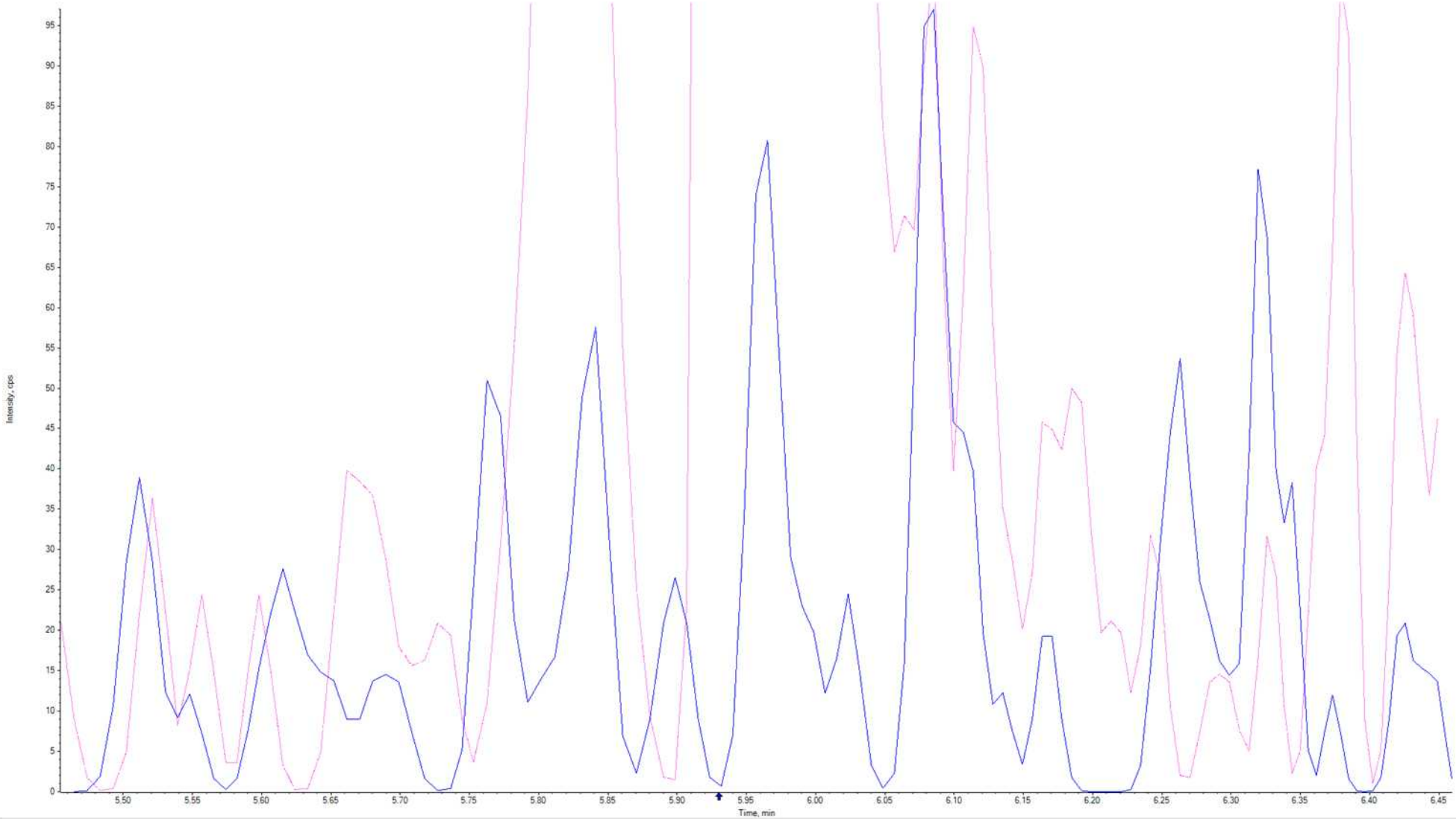
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NMeFOSA
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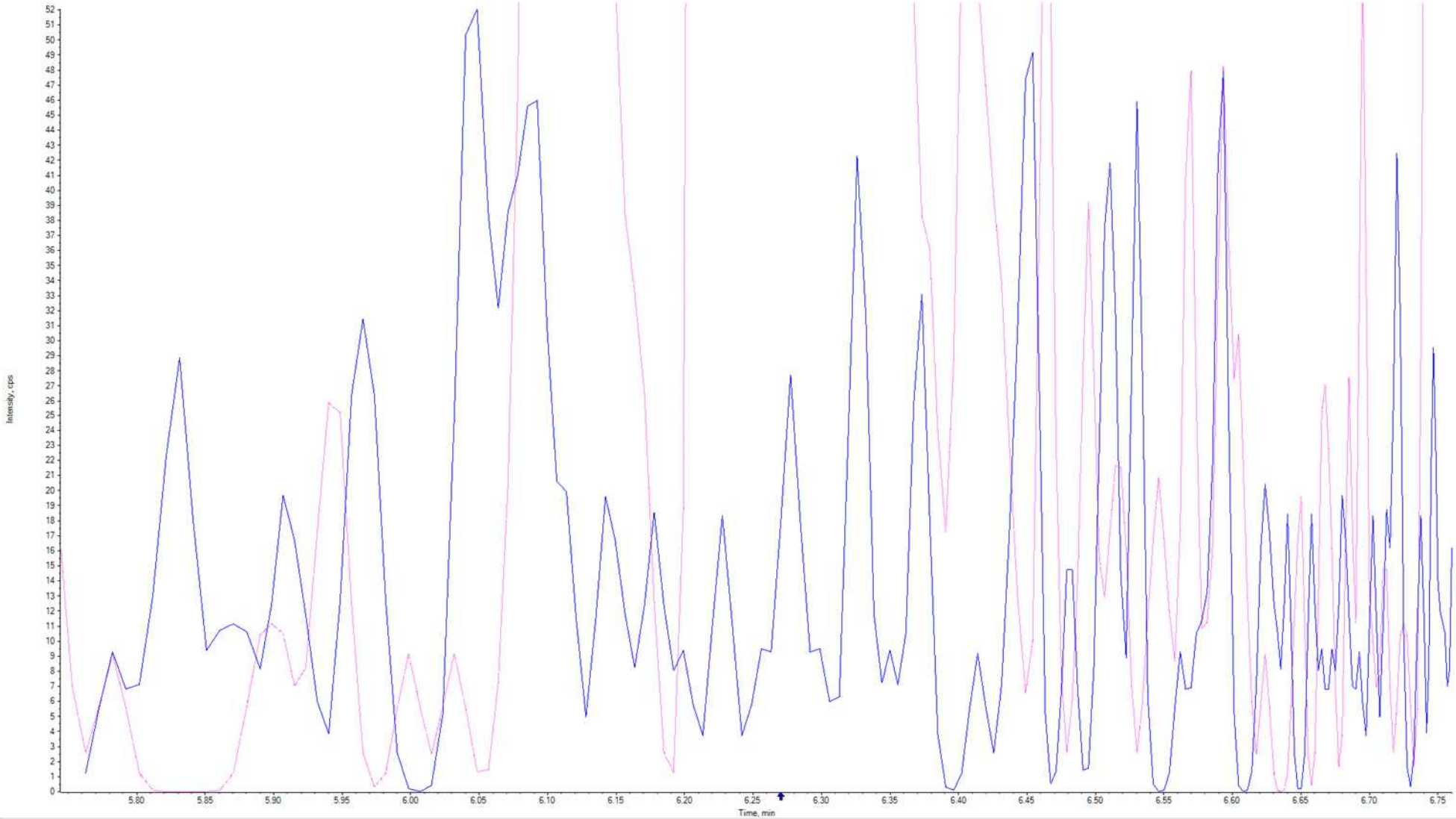
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Alpha Analytical LLC
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NMeFOSA_2
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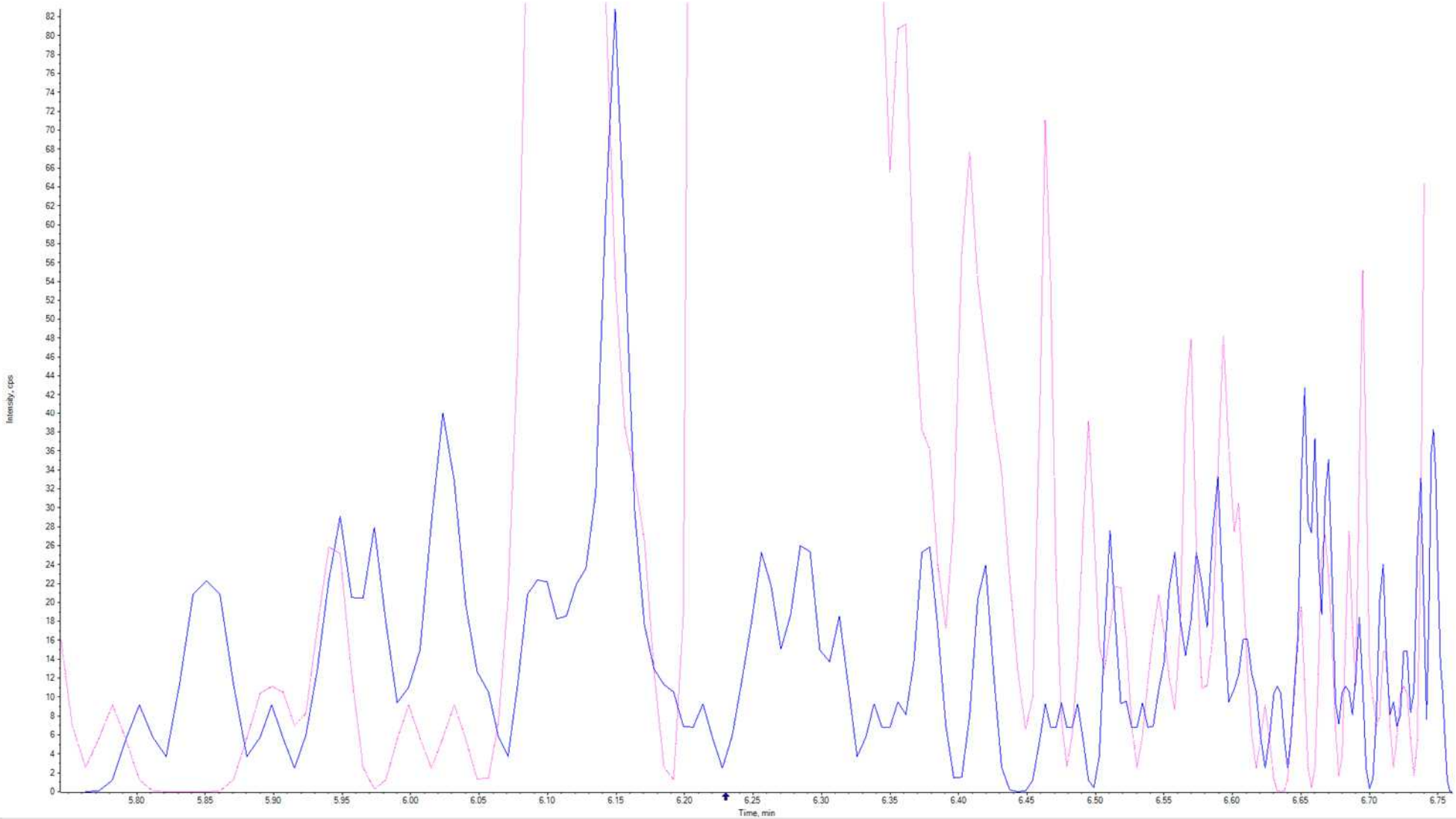
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Generated: 3/4/2025 5:58:35 AM

NEtFOSA
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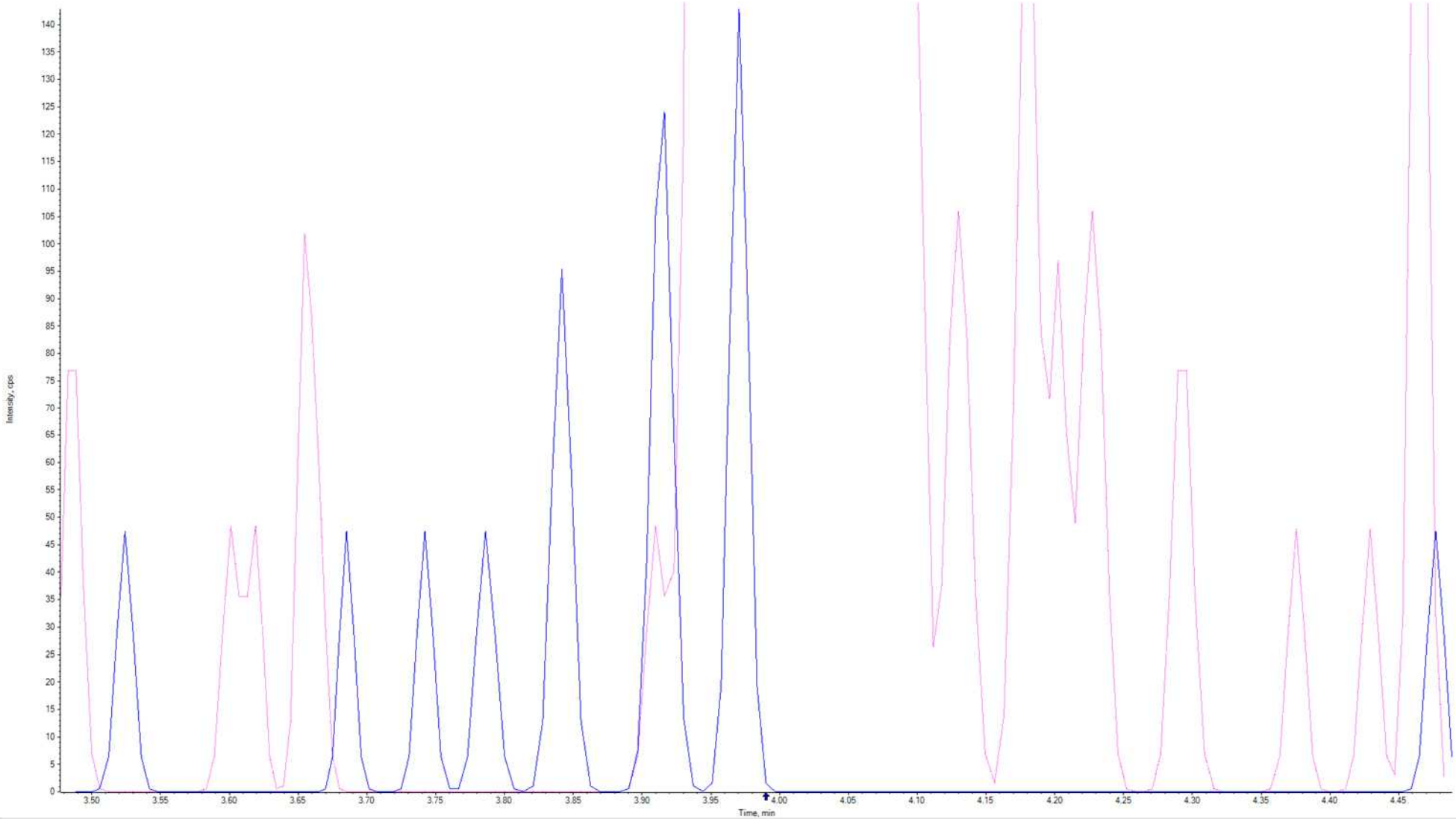
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

NEtFOSA_2
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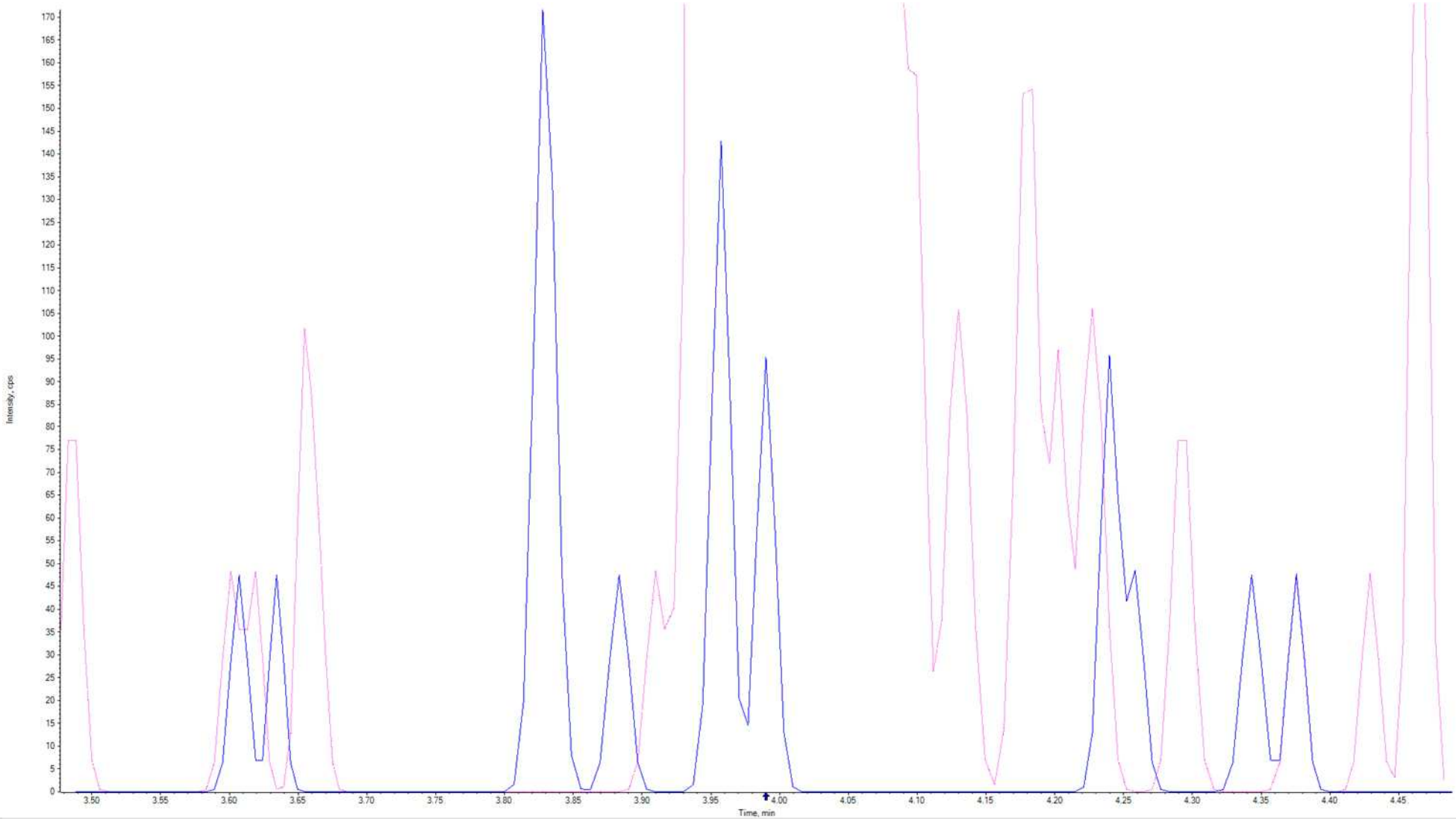
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NMeFOSAA
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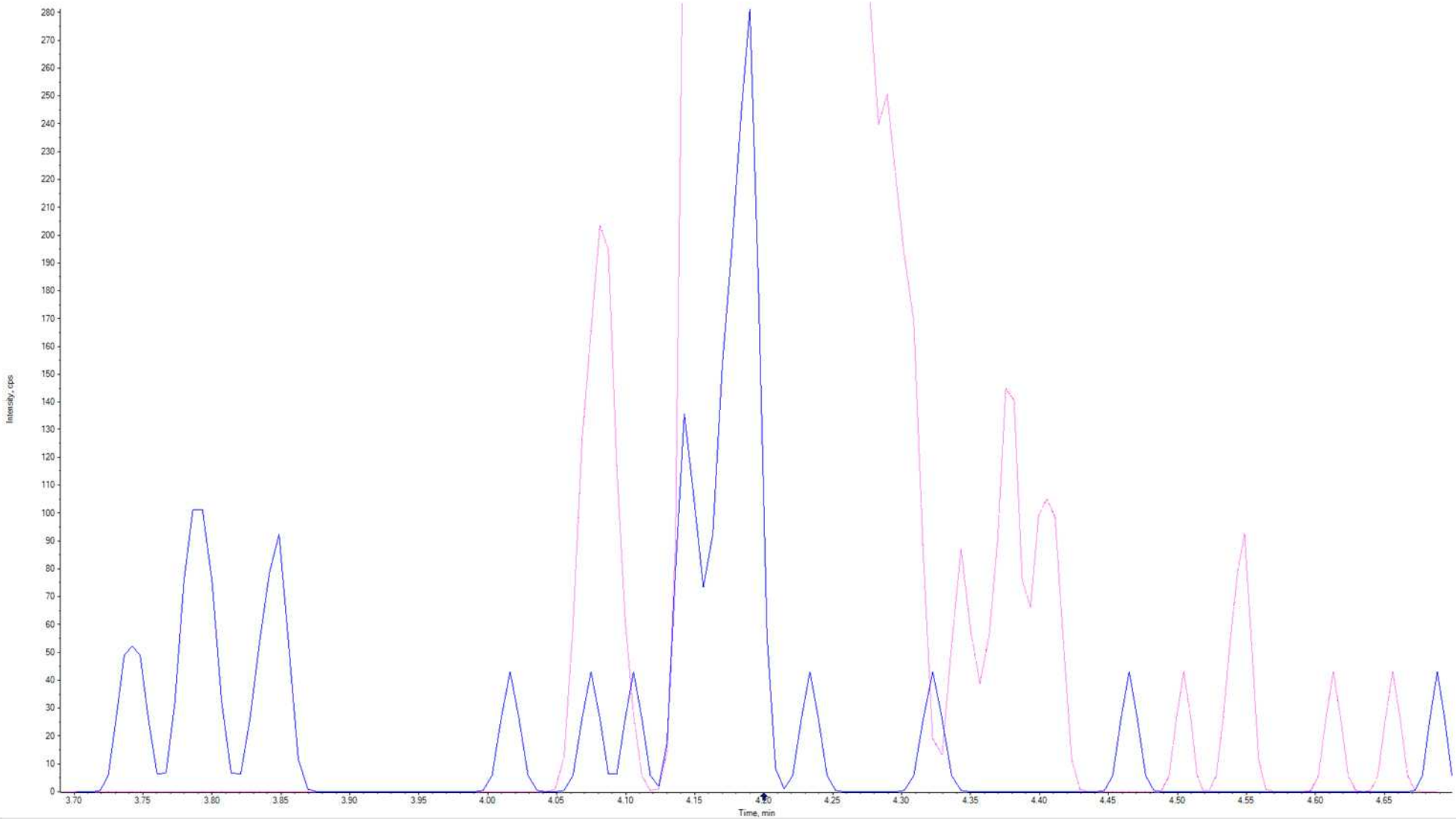
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NMeFOSAA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



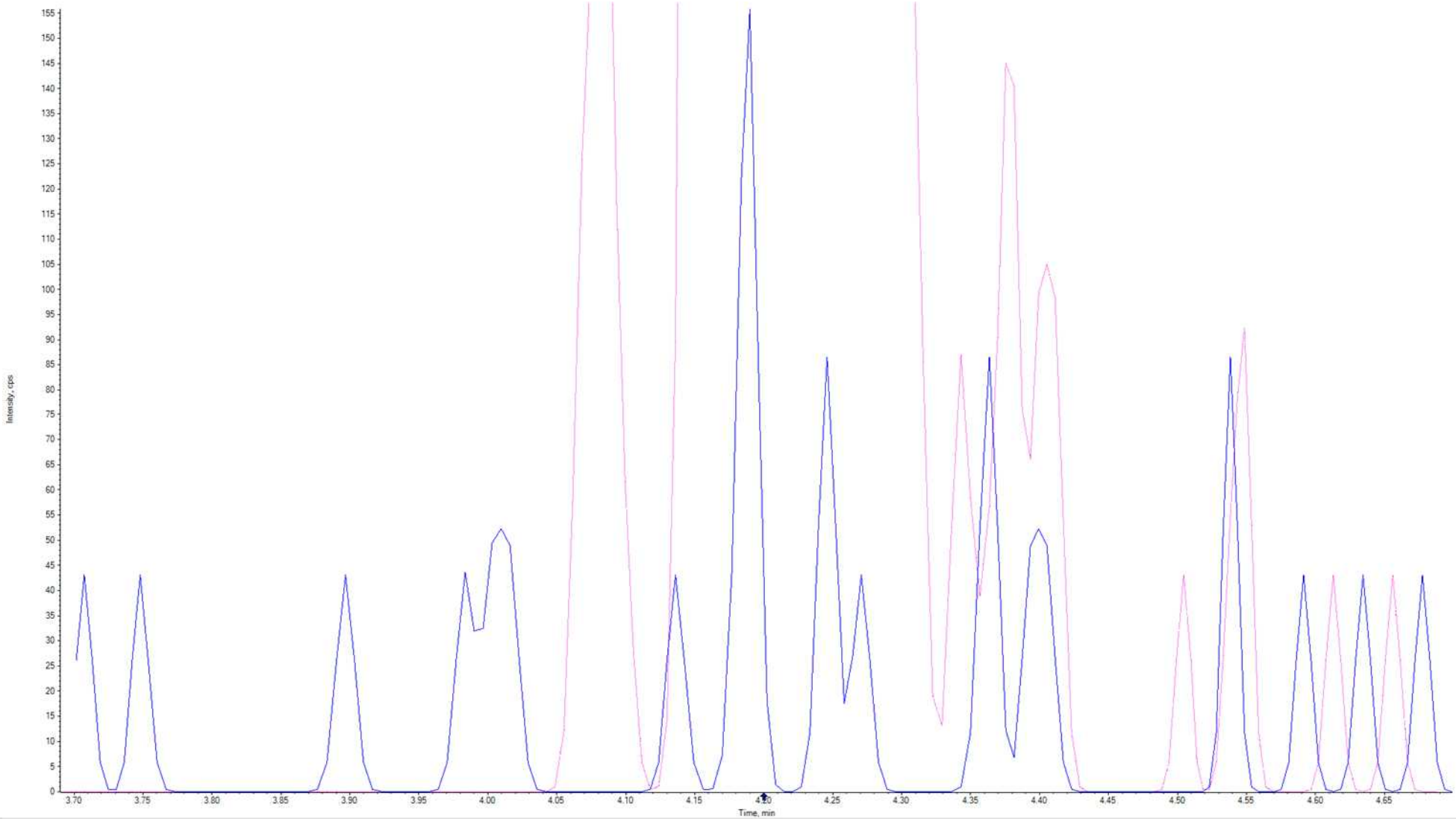
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NEtFOSAA
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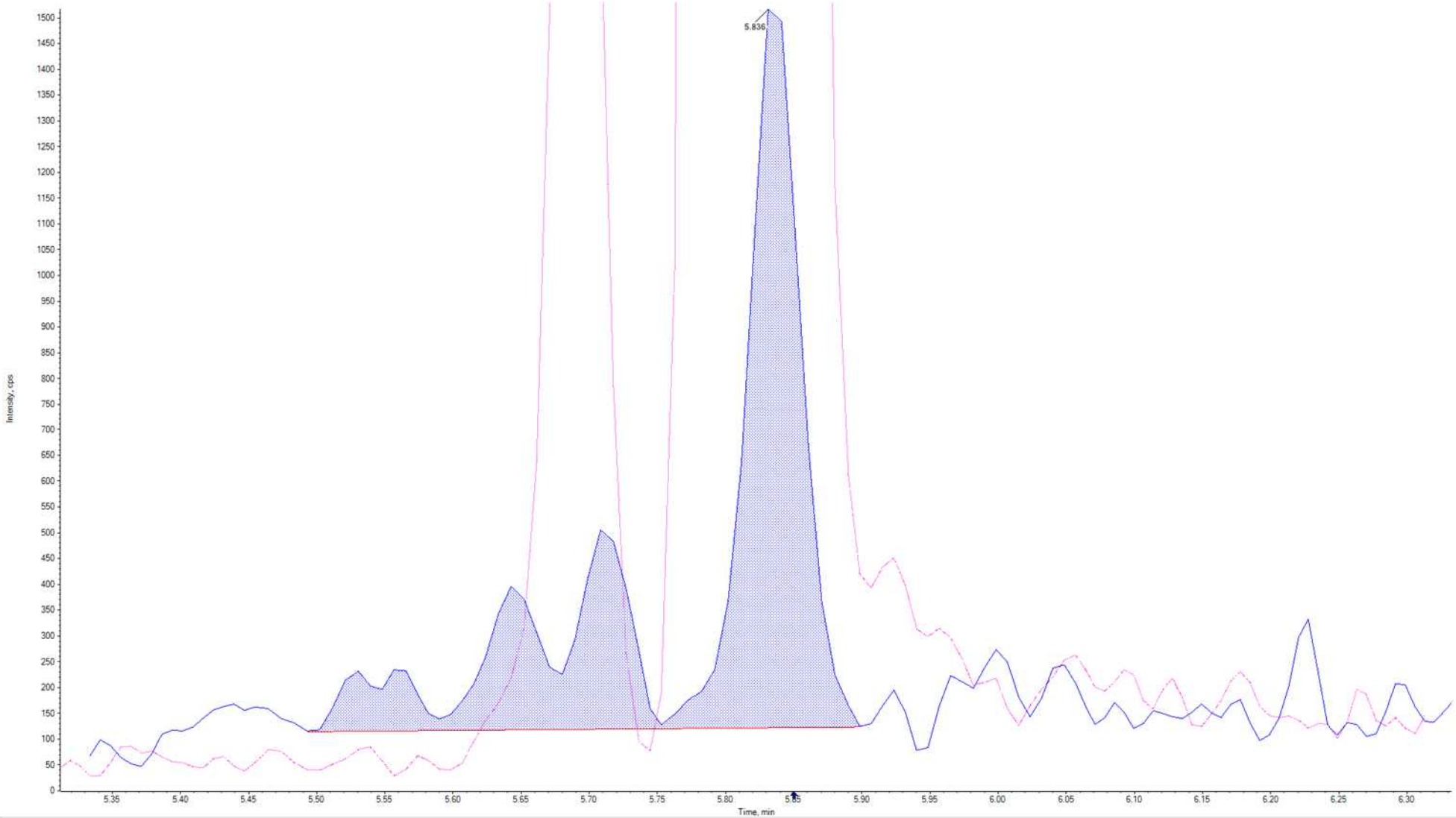
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_31.wiff2_1
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NEtFOSAA_2
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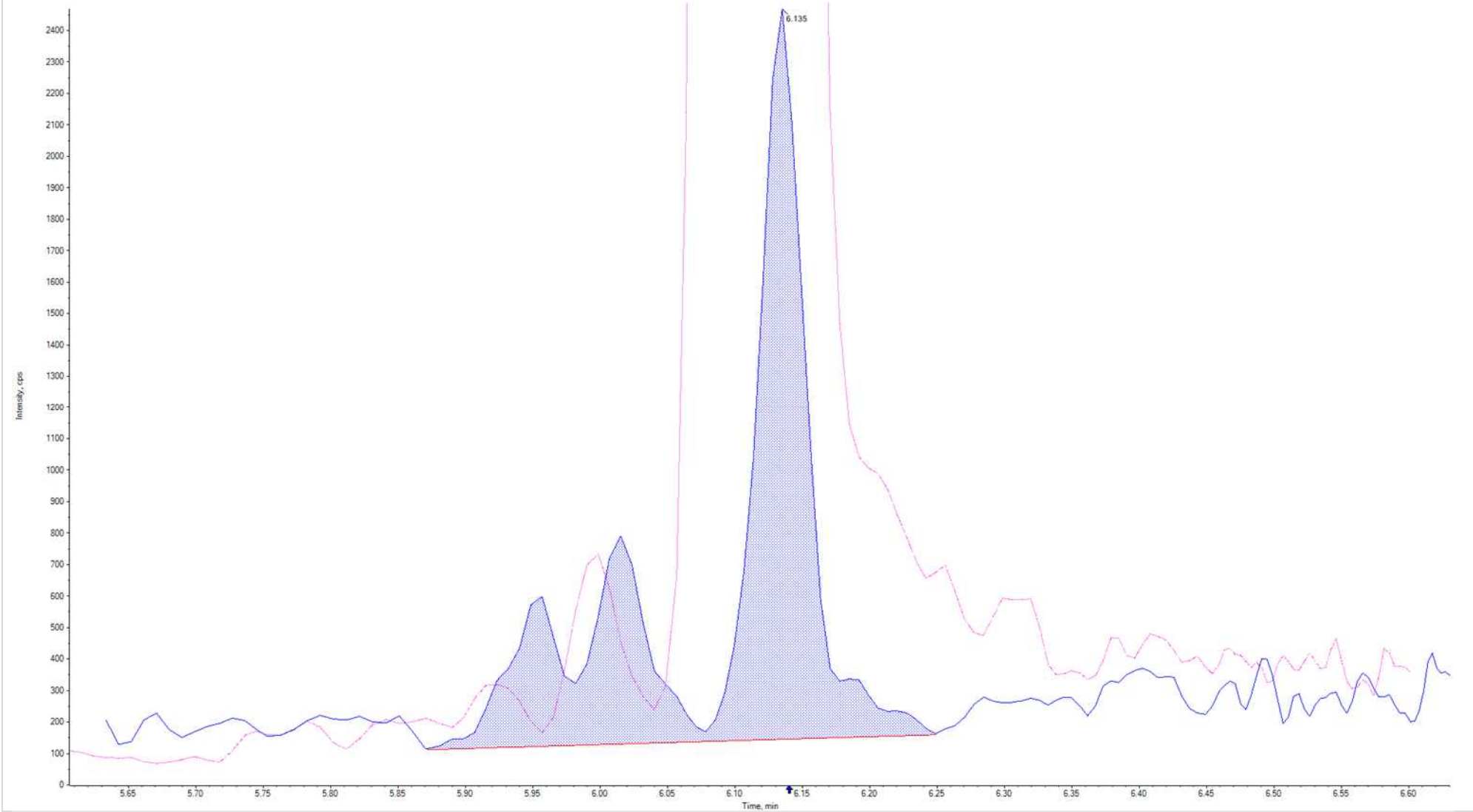
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_31.wiff2_1
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NMeFOSE
Sample: WG2035972-2,INSTBLANK S/N:37.2 Points Across peak:46

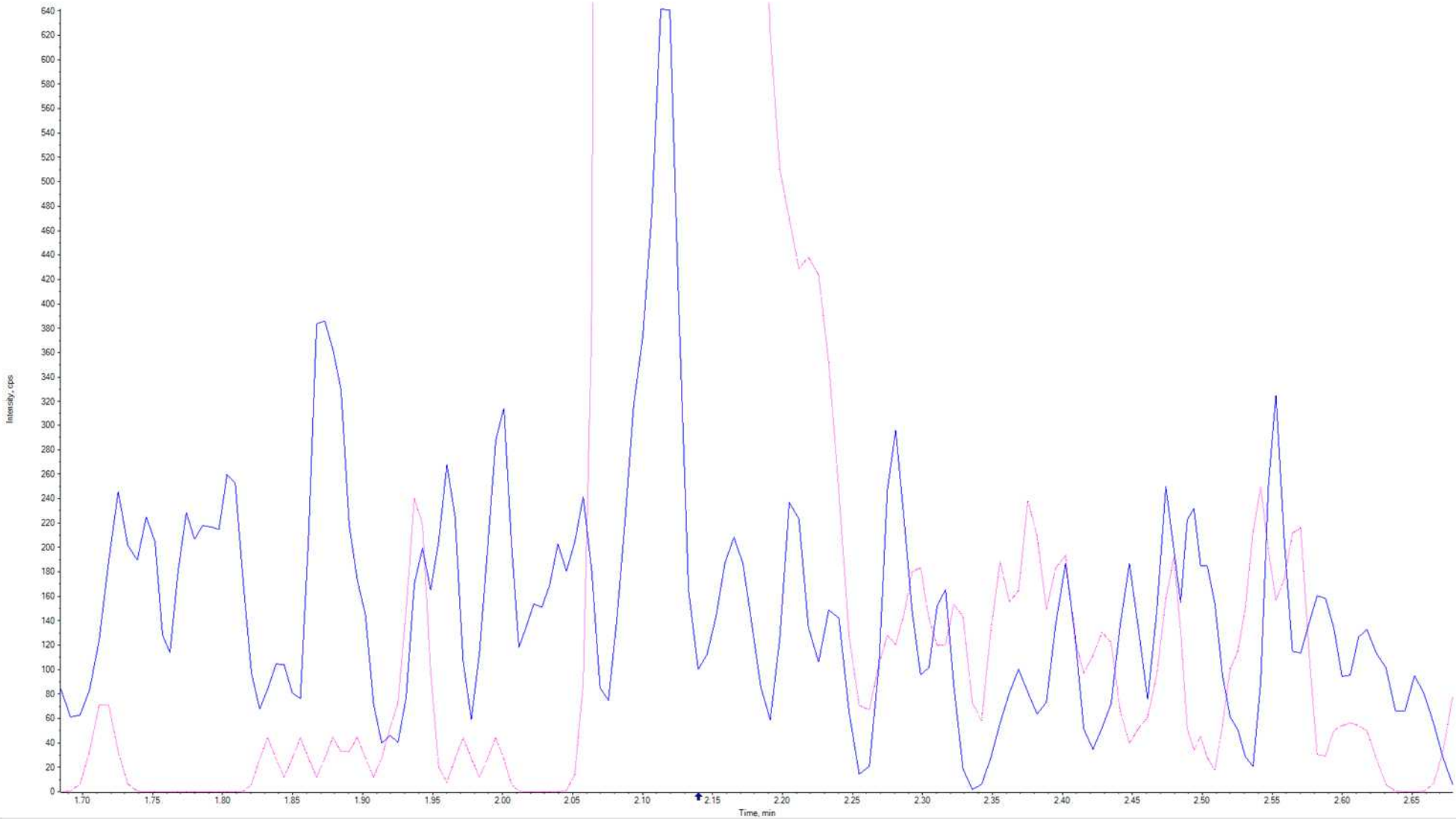


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NEtFOSE
Sample: WG2035972-2,INSTBLANK S/N:58.4 Points Across peak:50

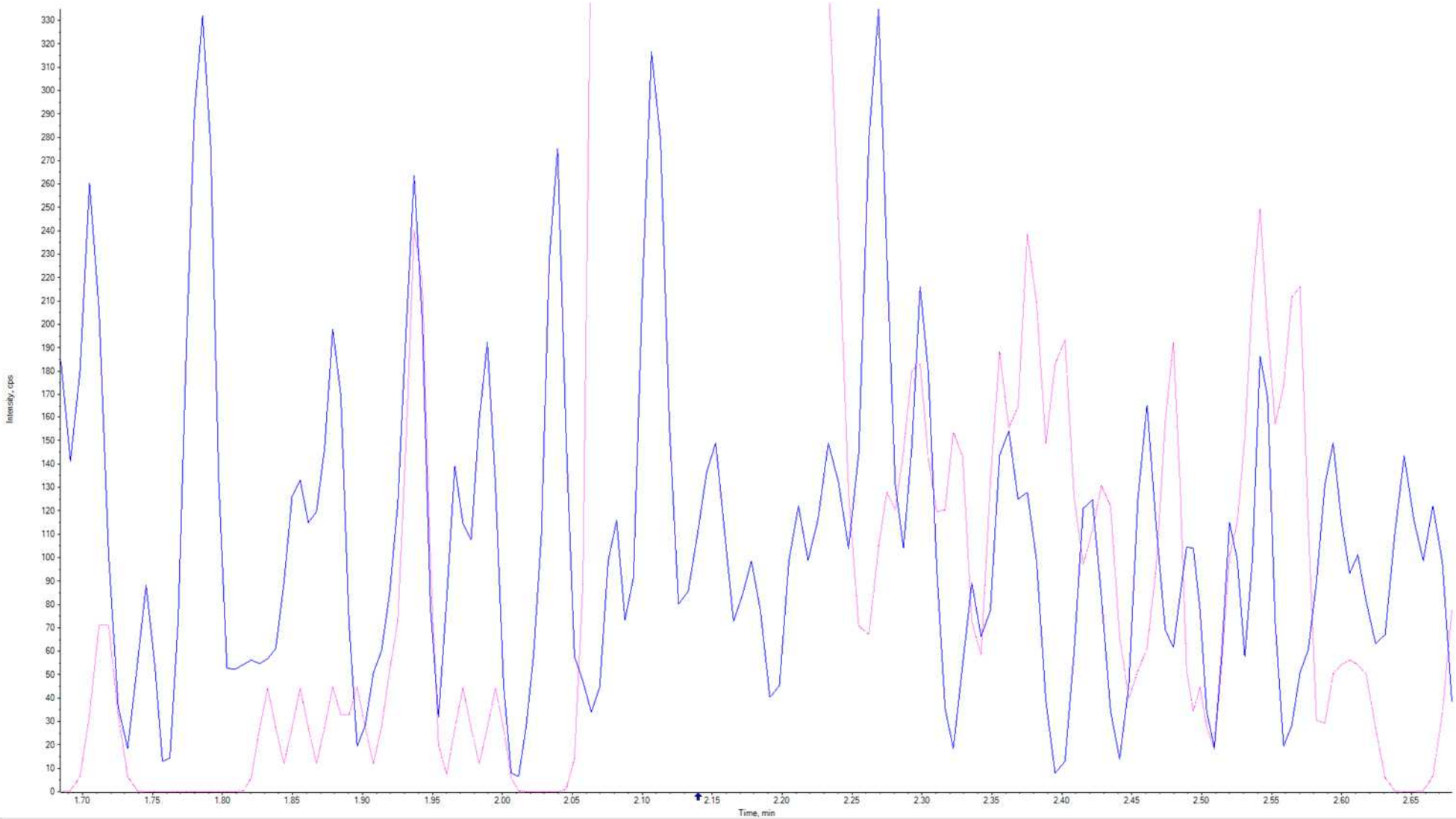


HFPO-DA
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



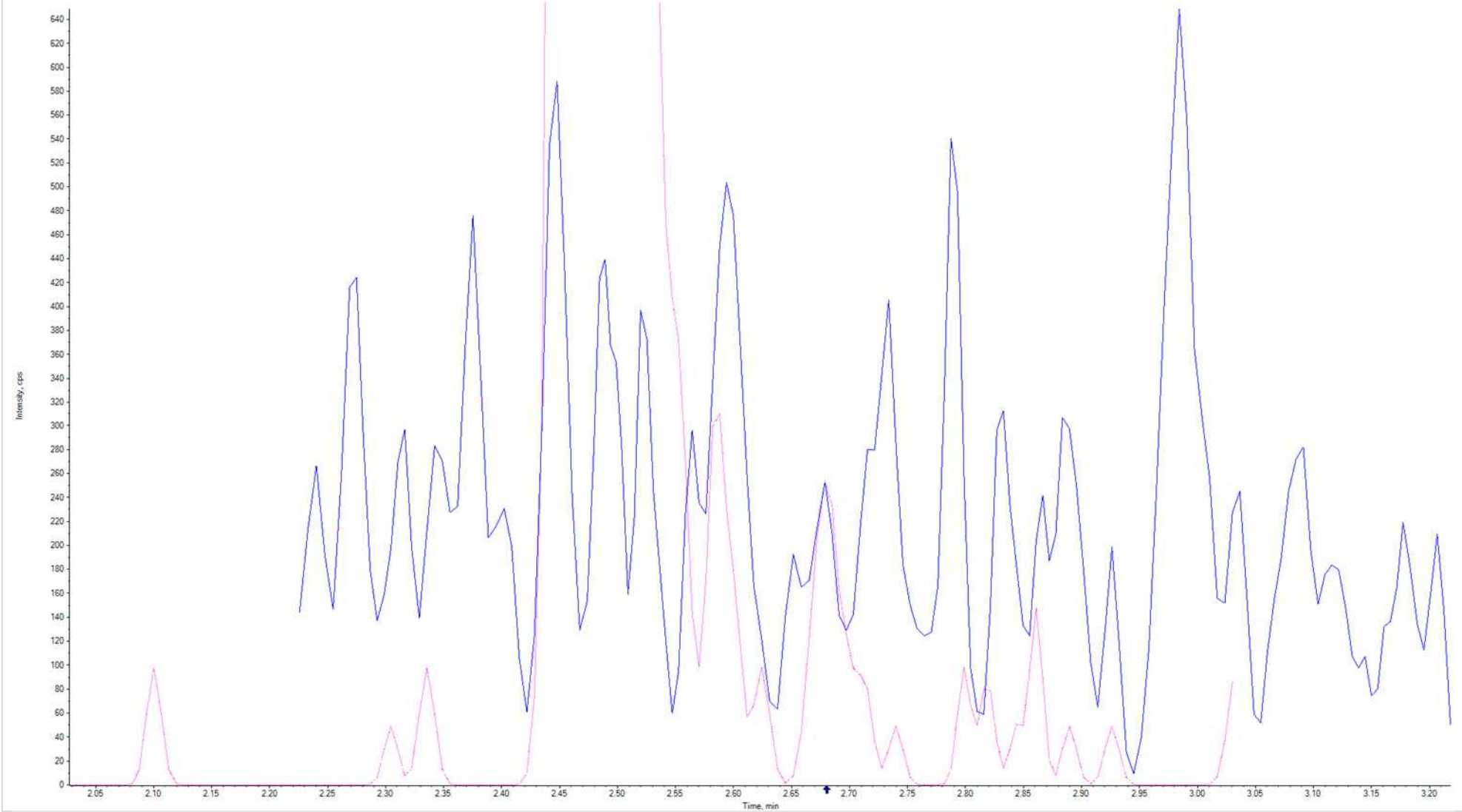
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_31.wiff2_1
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

HFPO-DA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



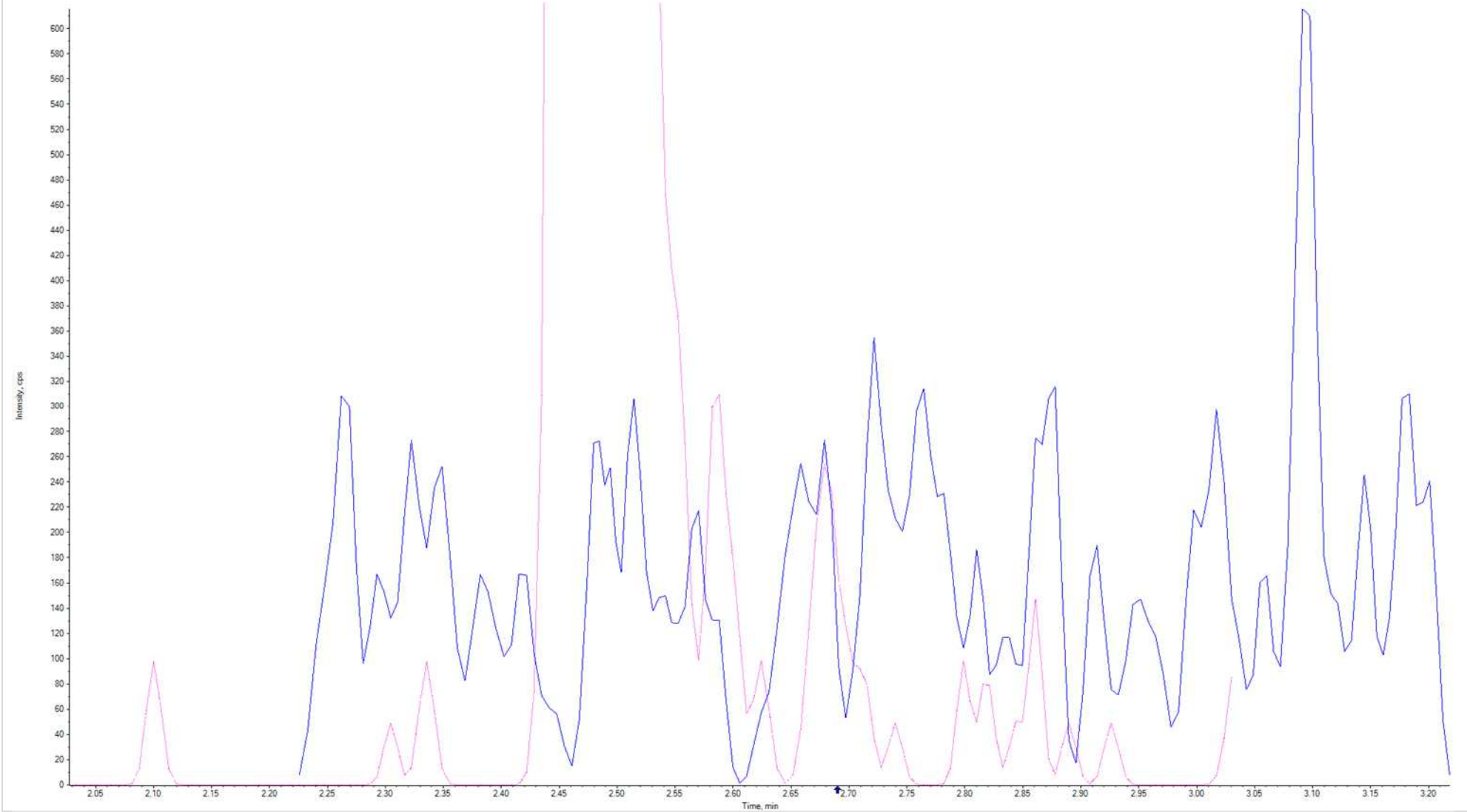
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_31.wiff2_1
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

ADONA
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



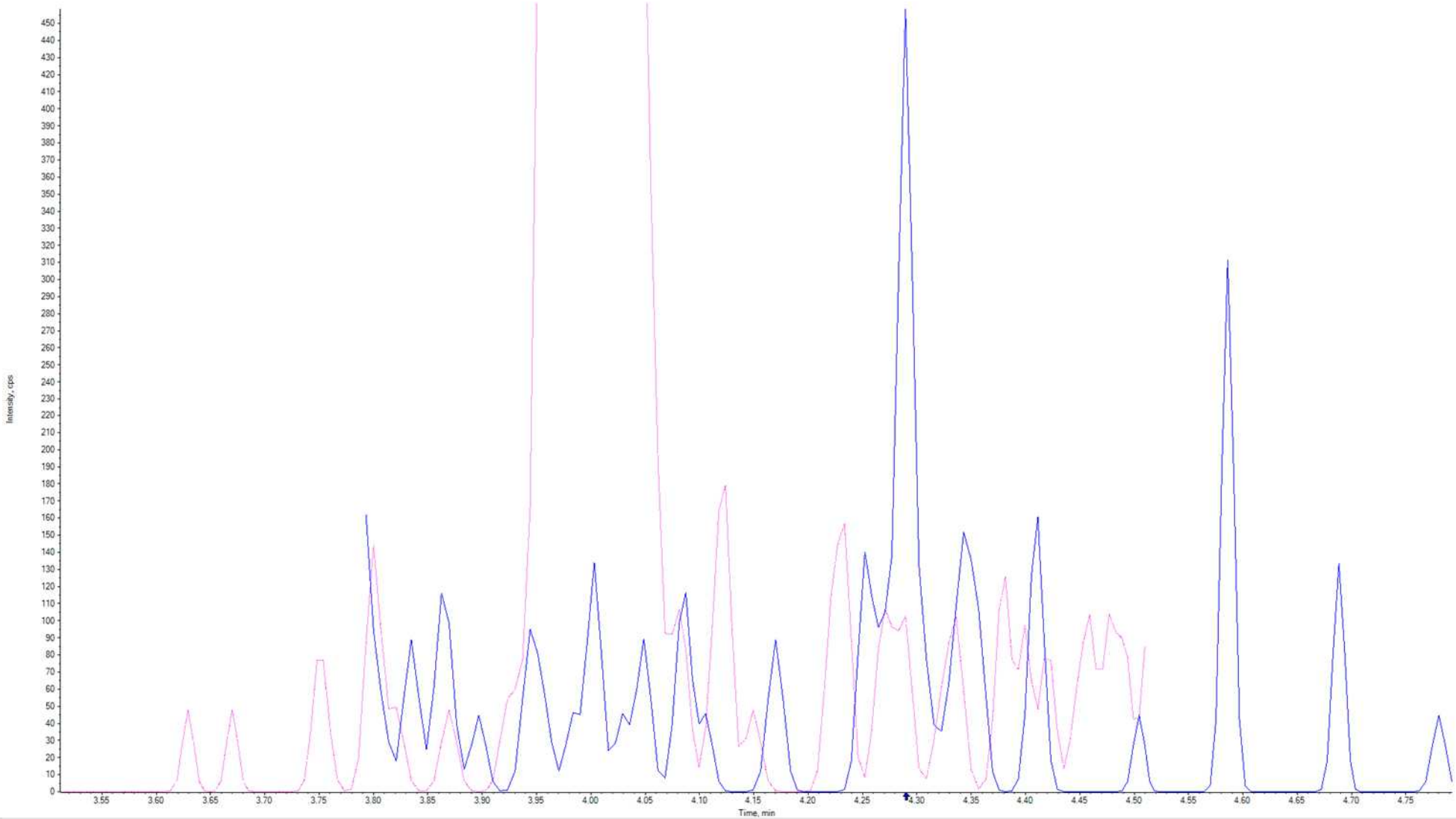
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_31.wiff2_1
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

ADONA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



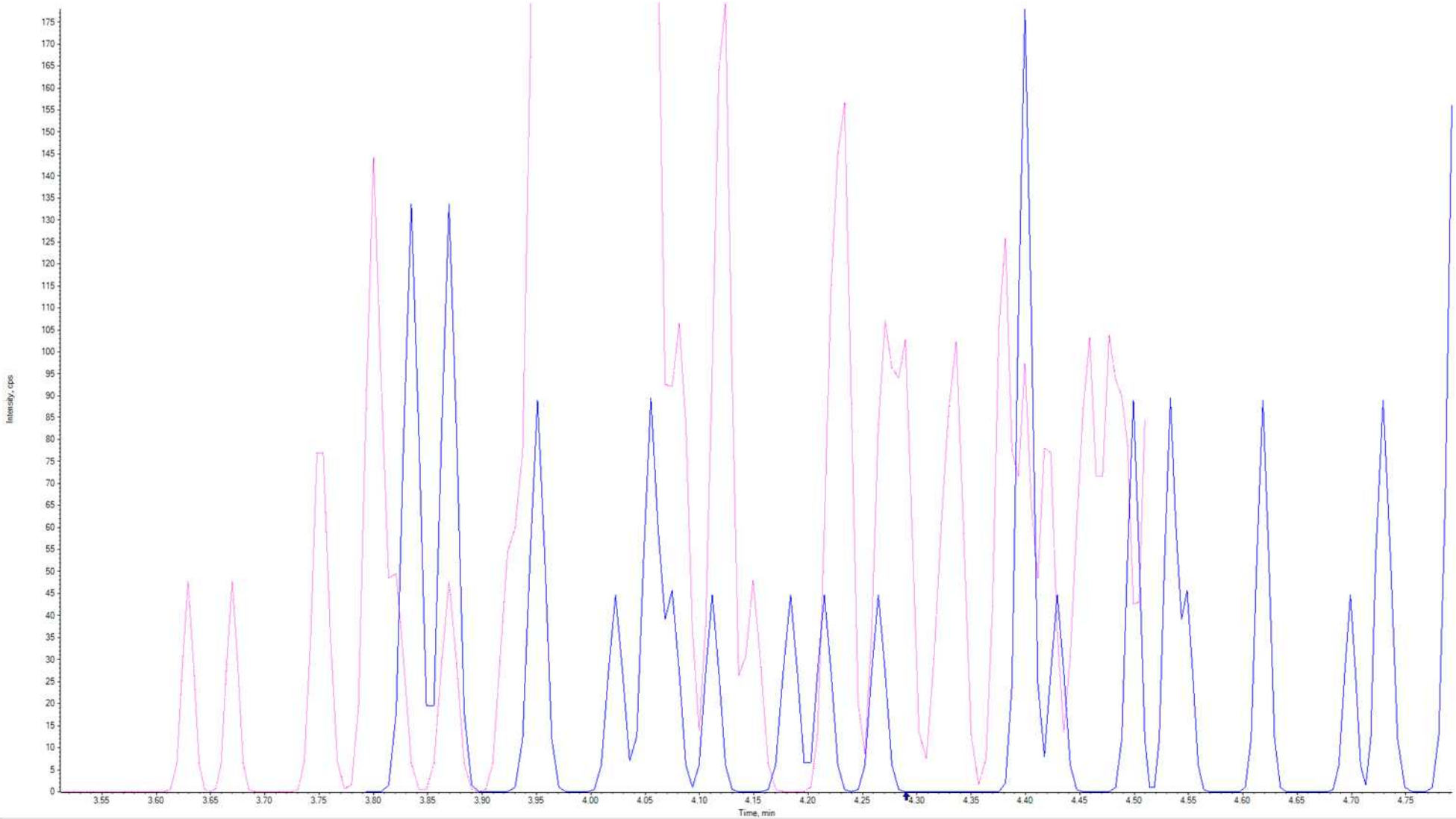
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Alpha Analytical LLC
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9Cl-PF3ONS
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



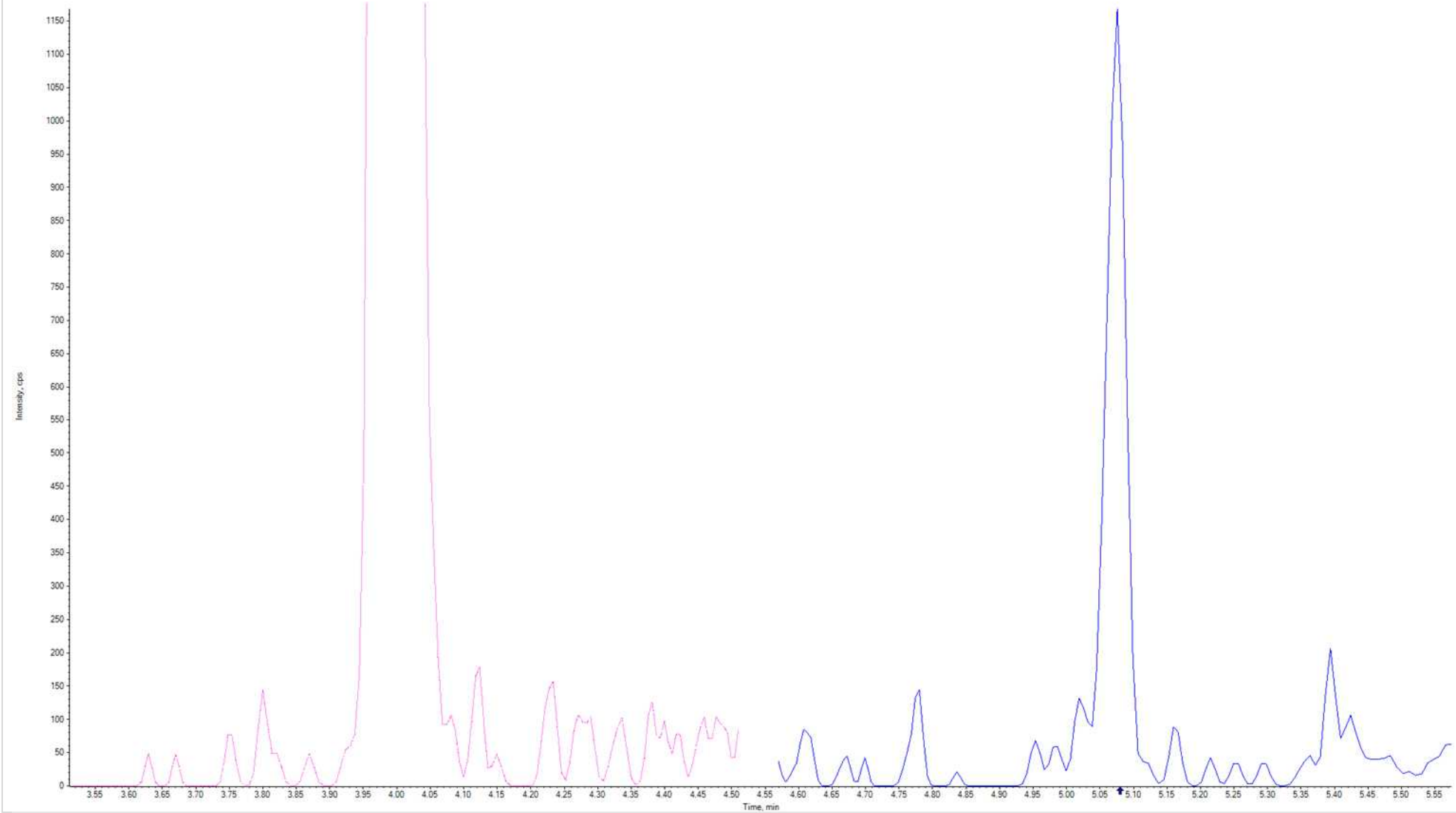
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9Cl-PF3ONS_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



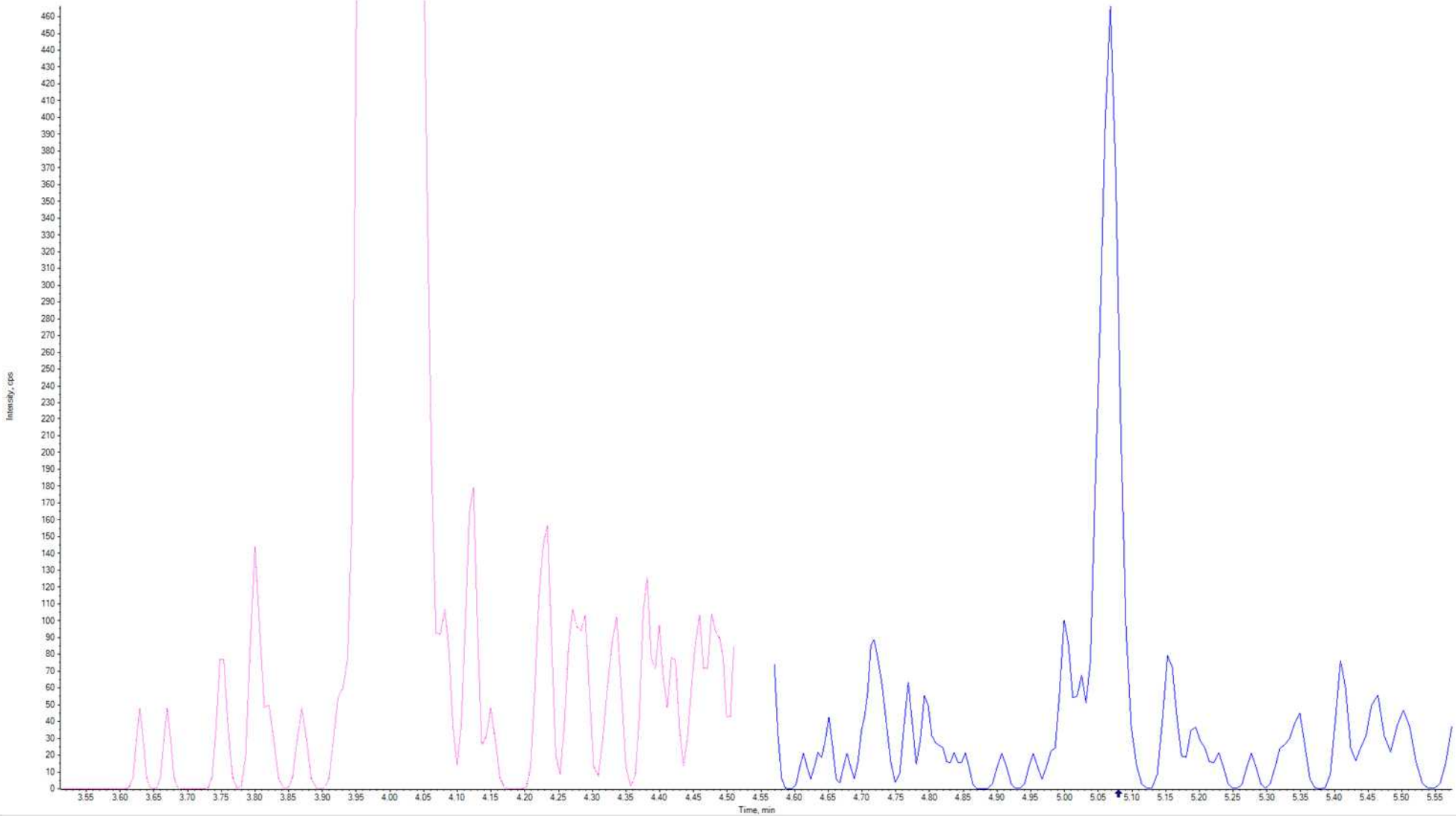
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11Cl-PF3OUdS
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



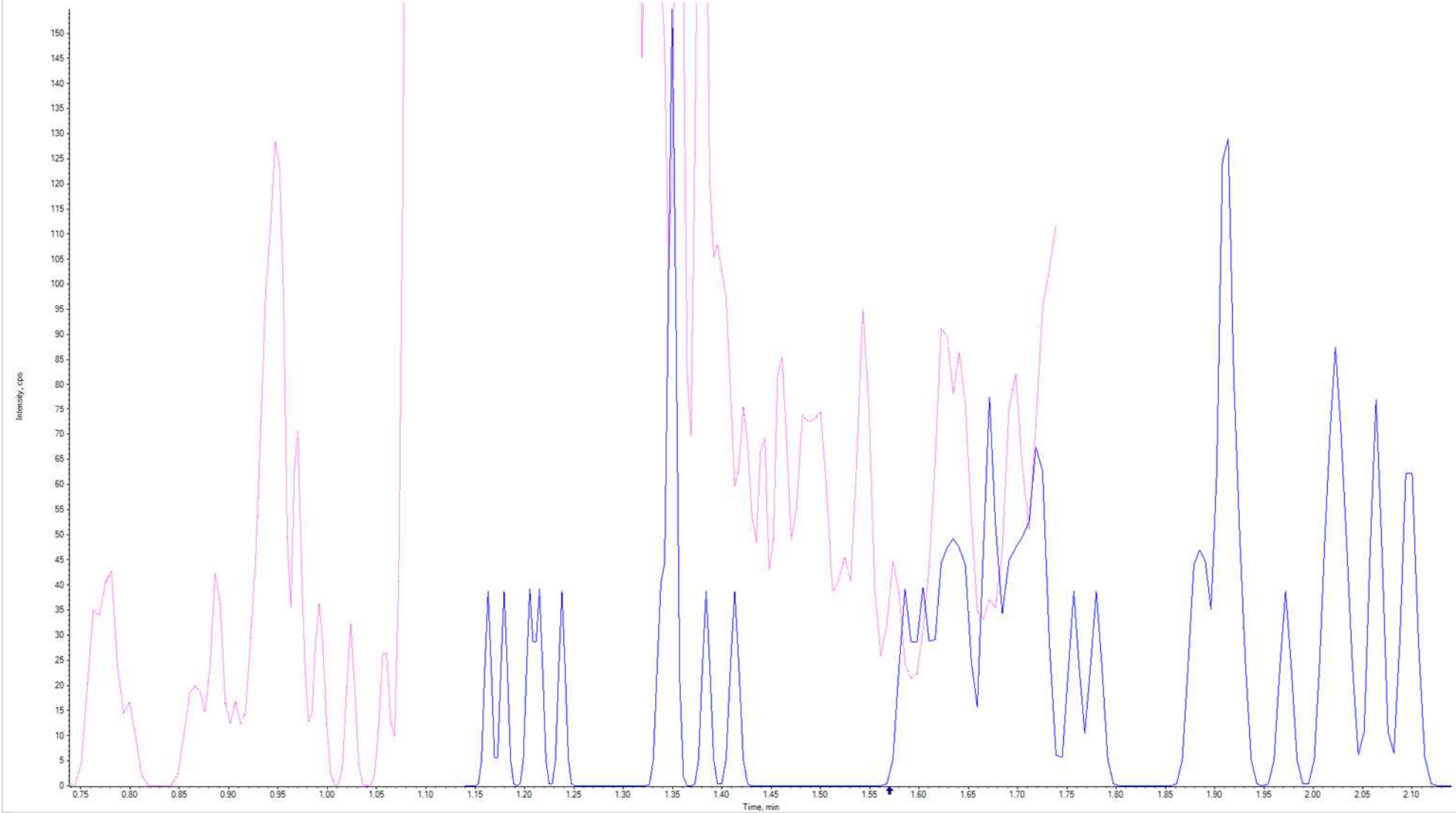
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

11Cl-PF3OUdS_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



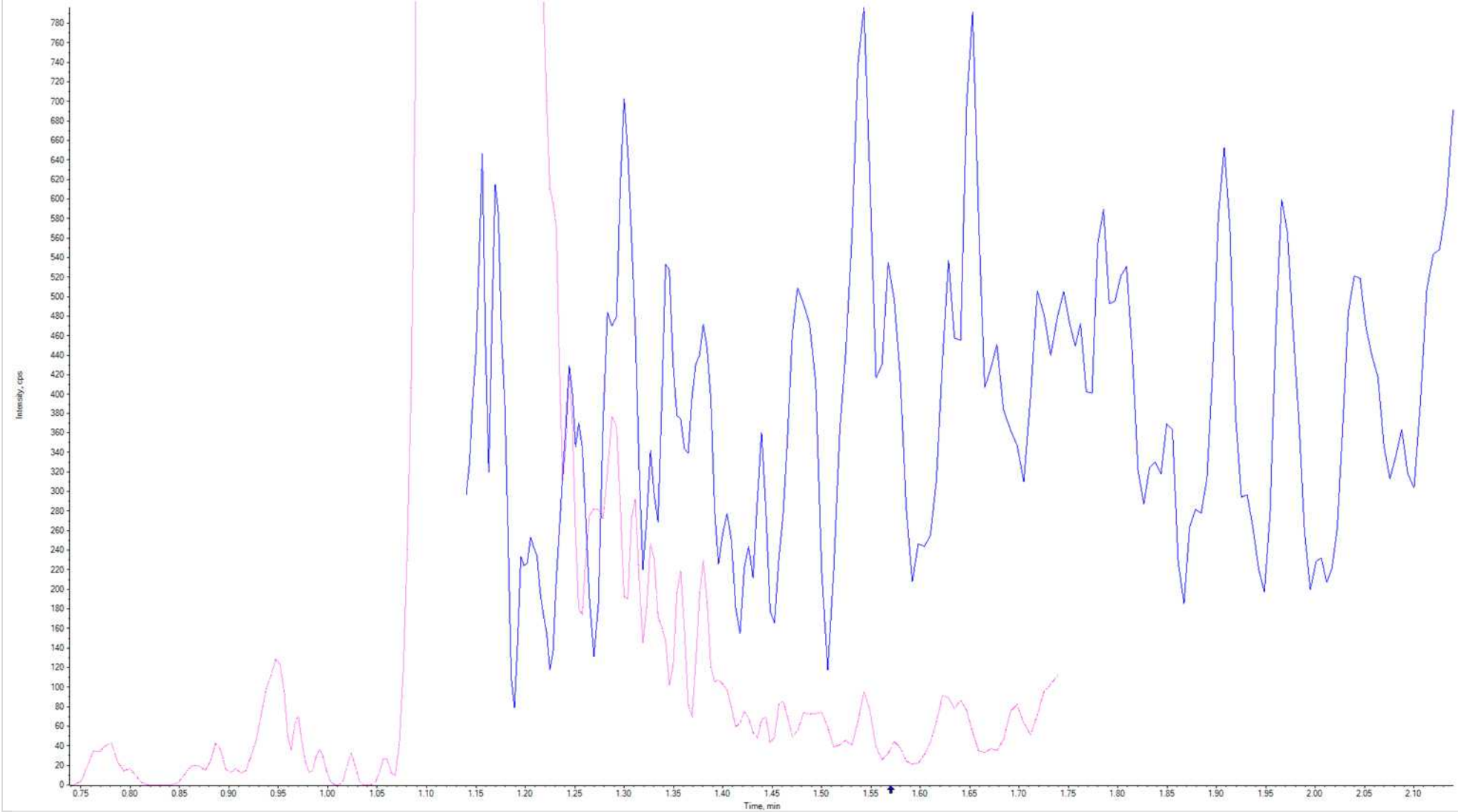
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

3:3FTCA
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



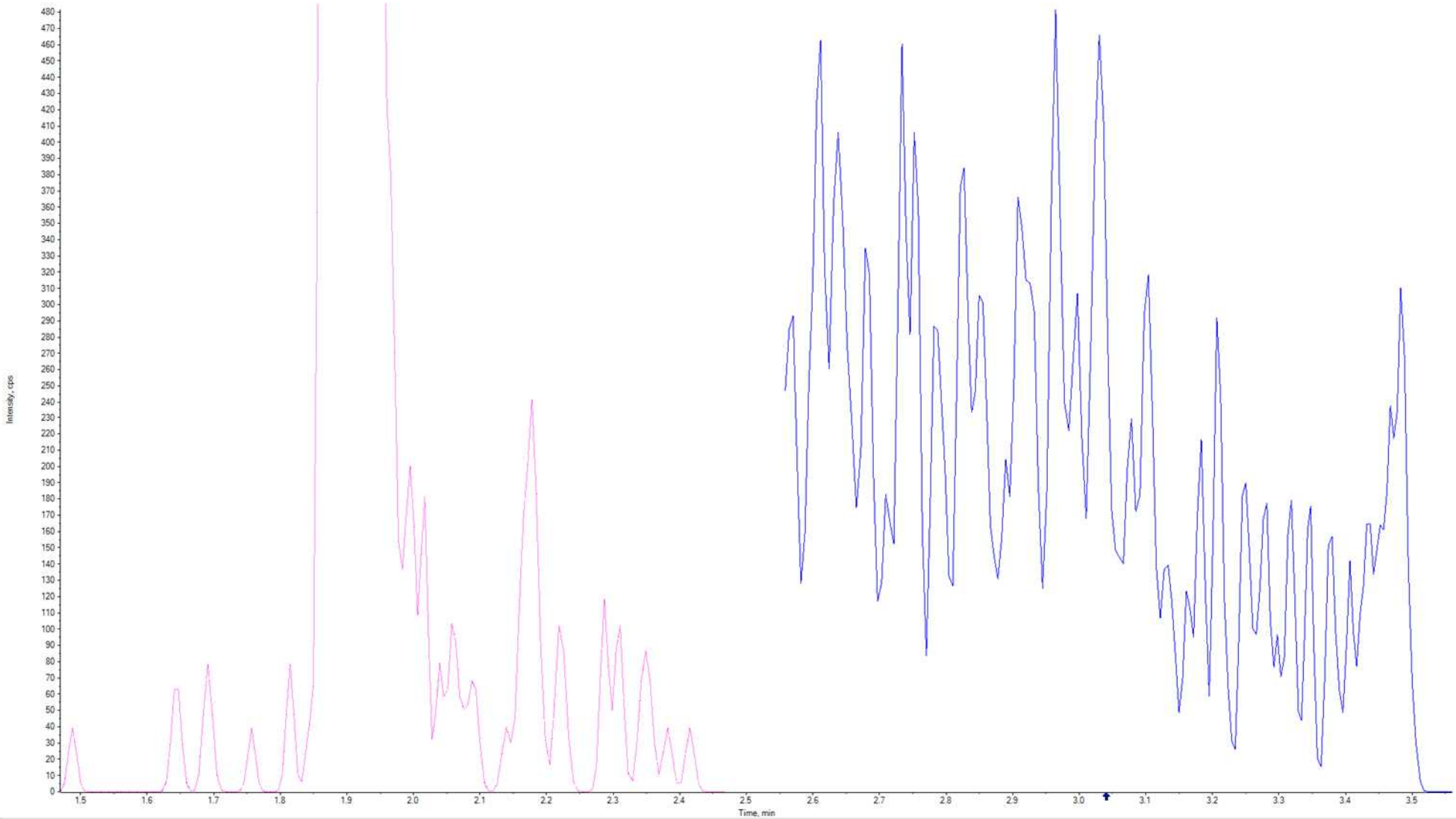
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

3:3FTCA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



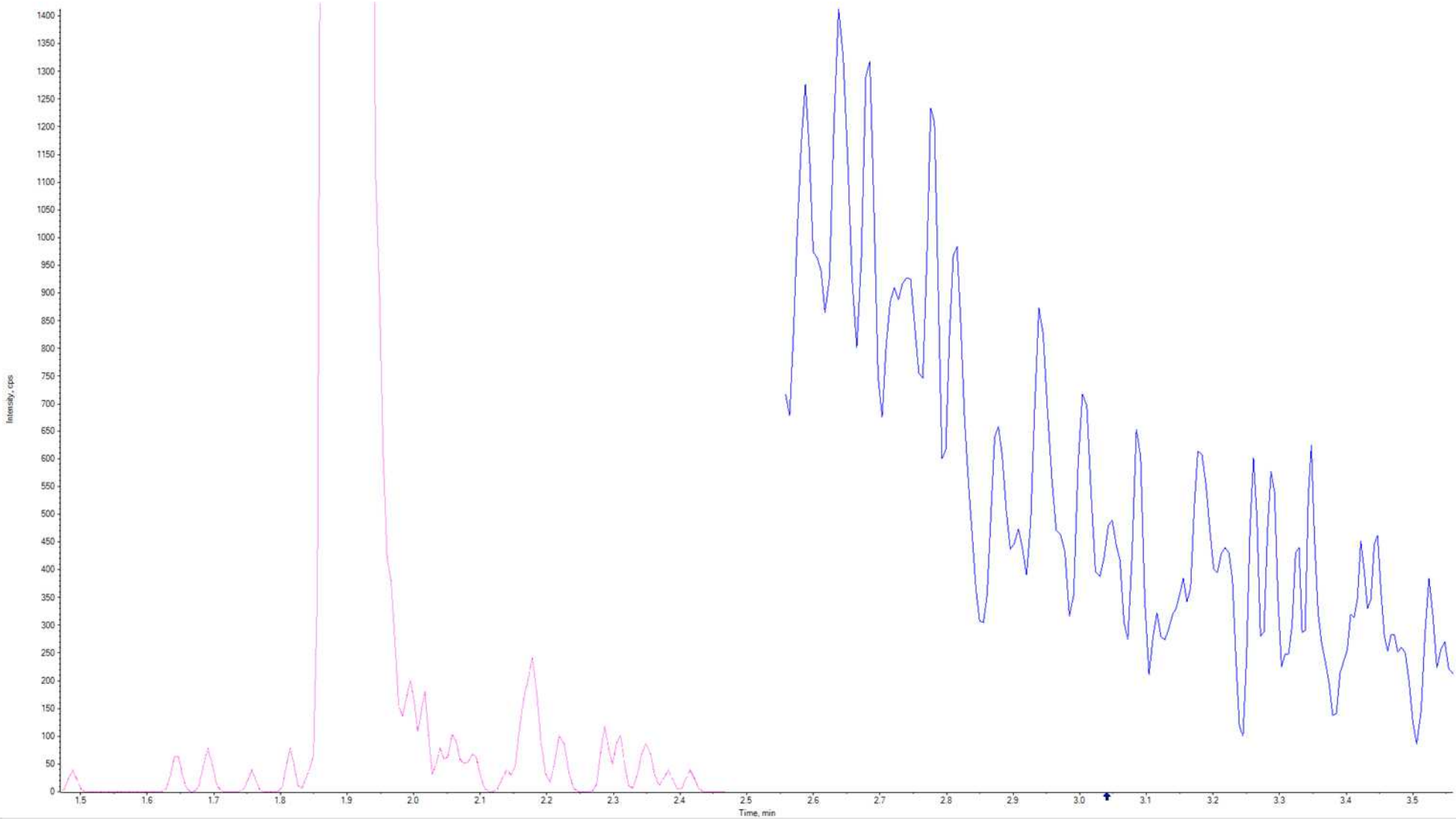
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

5:3FTCA
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



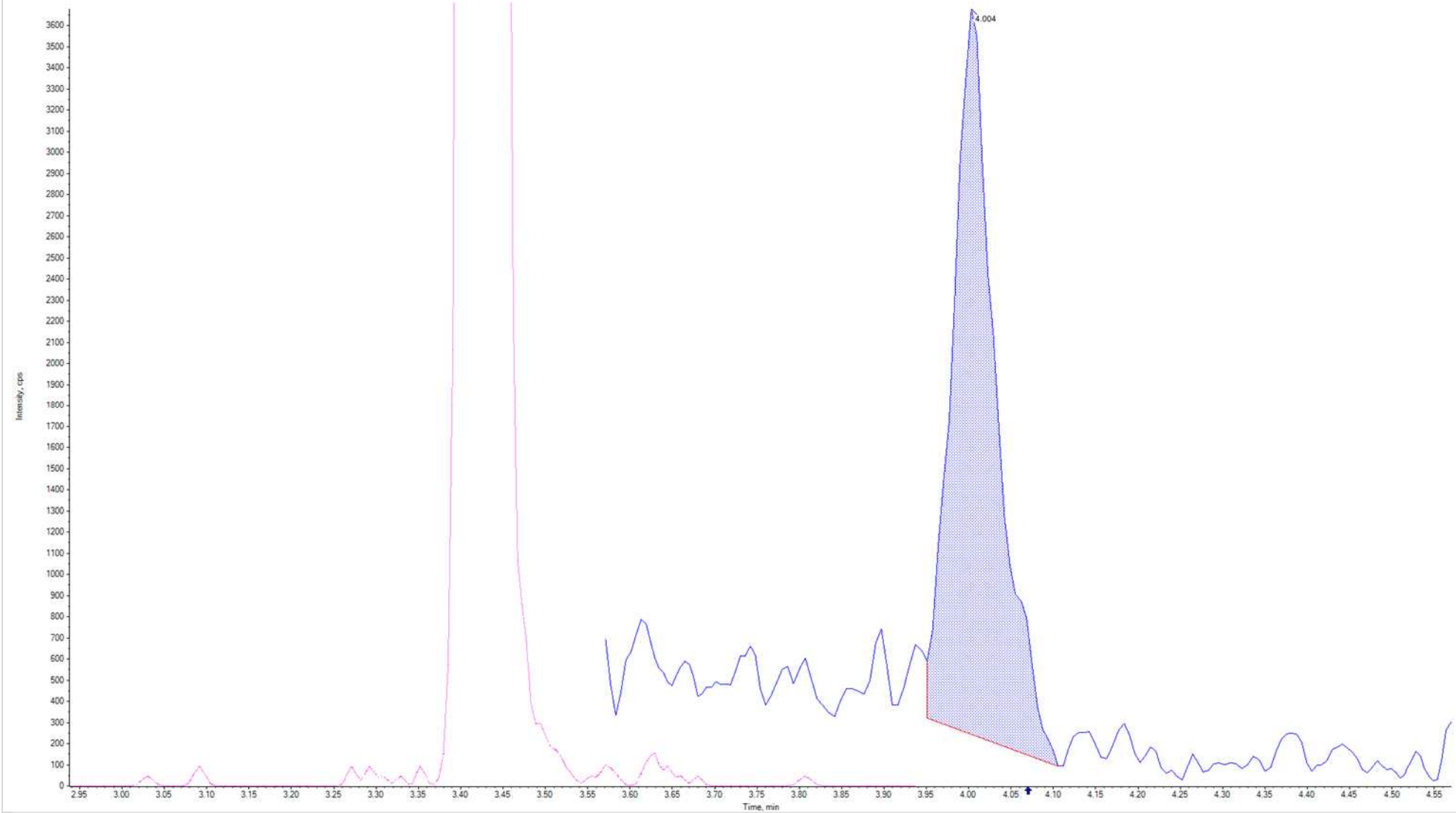
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

5:3FTCA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



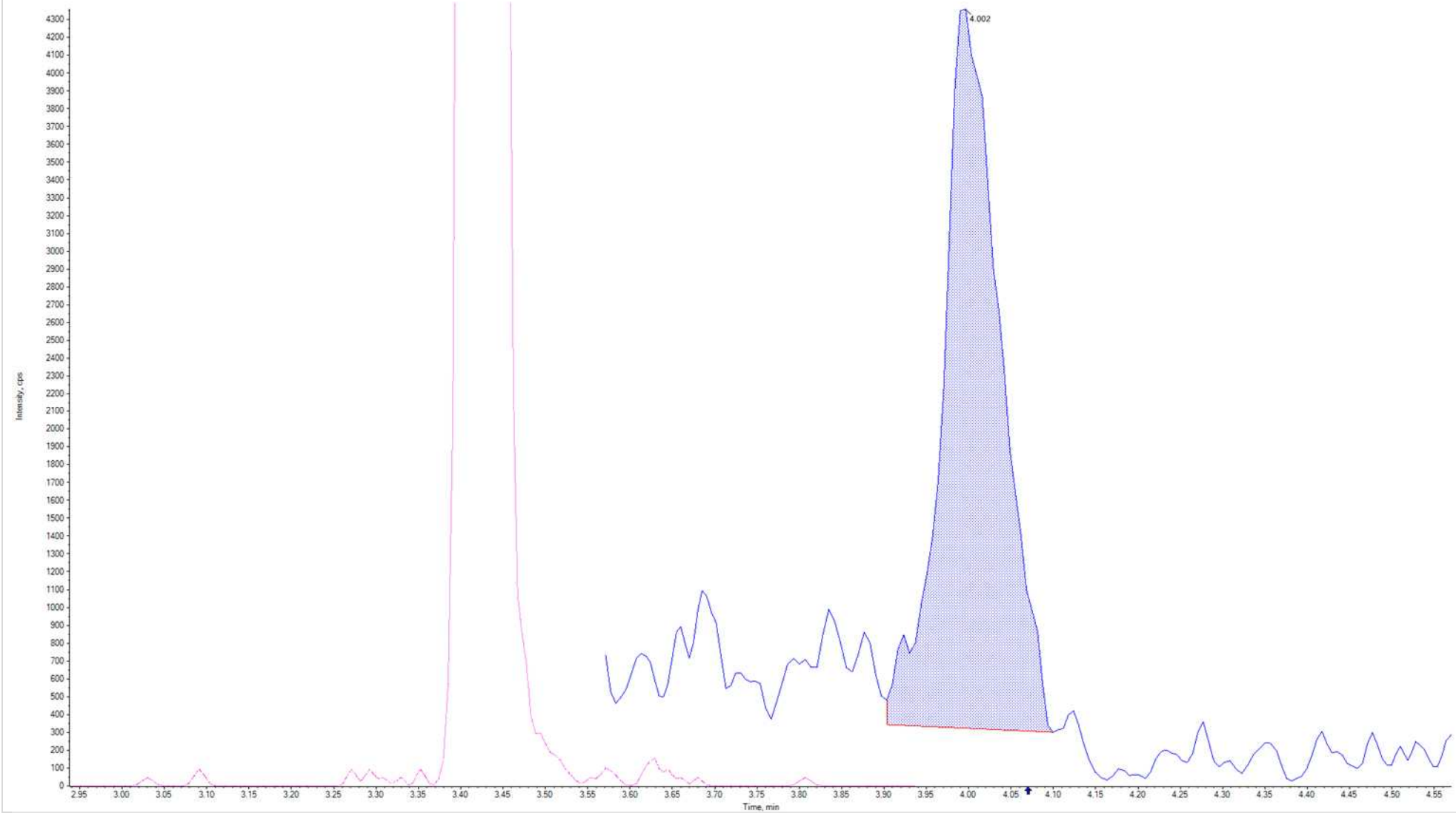
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

7:3FTCA
Sample: WG2035972-2,INSTBLANK S/N:94.7 Points Across peak:25



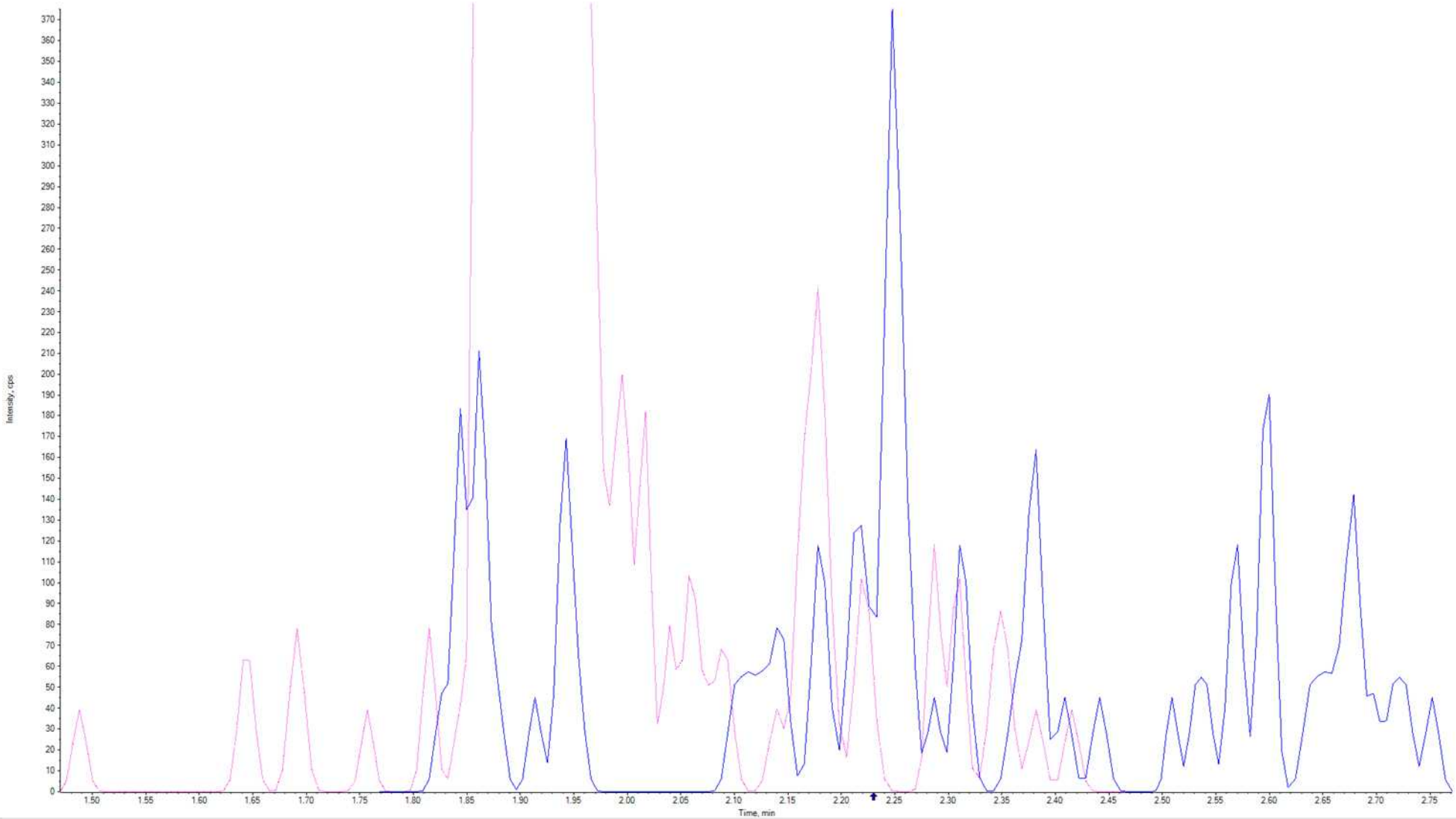
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

7:3FTCA_2
Sample: WG2035972-2,INSTBLANK S/N:111.3 Points Across peak:31



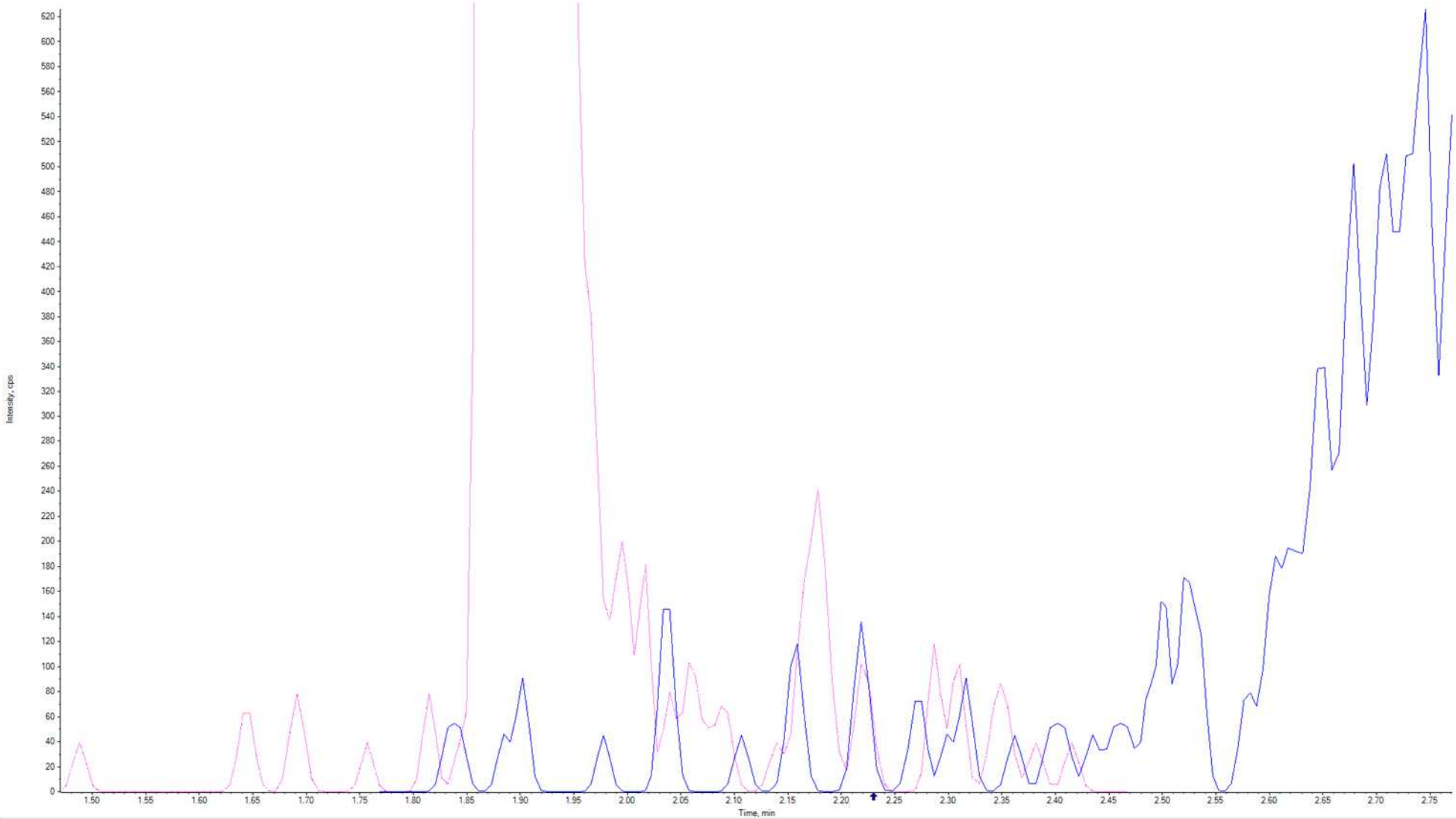
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFEESA
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



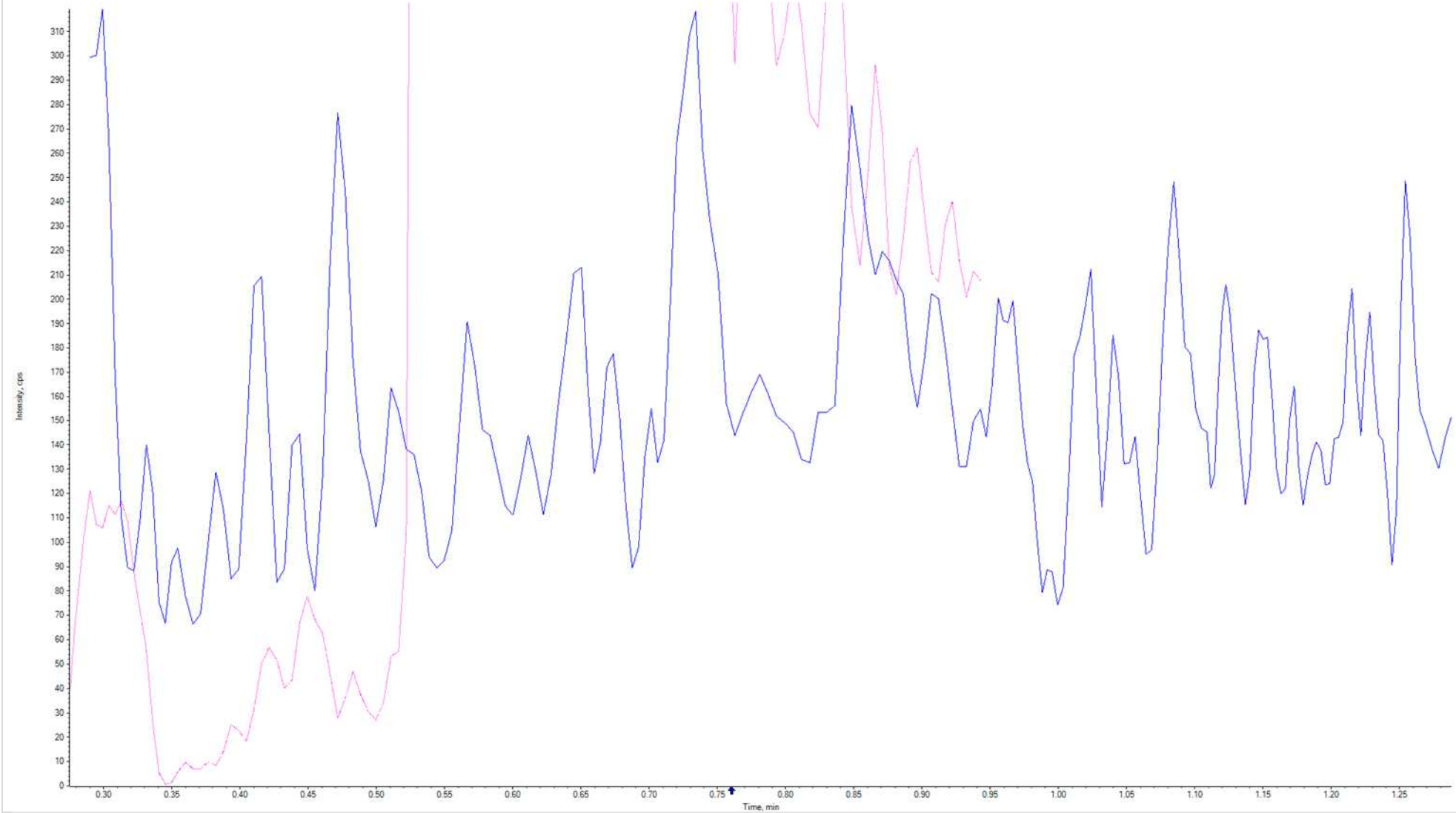
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFEESA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



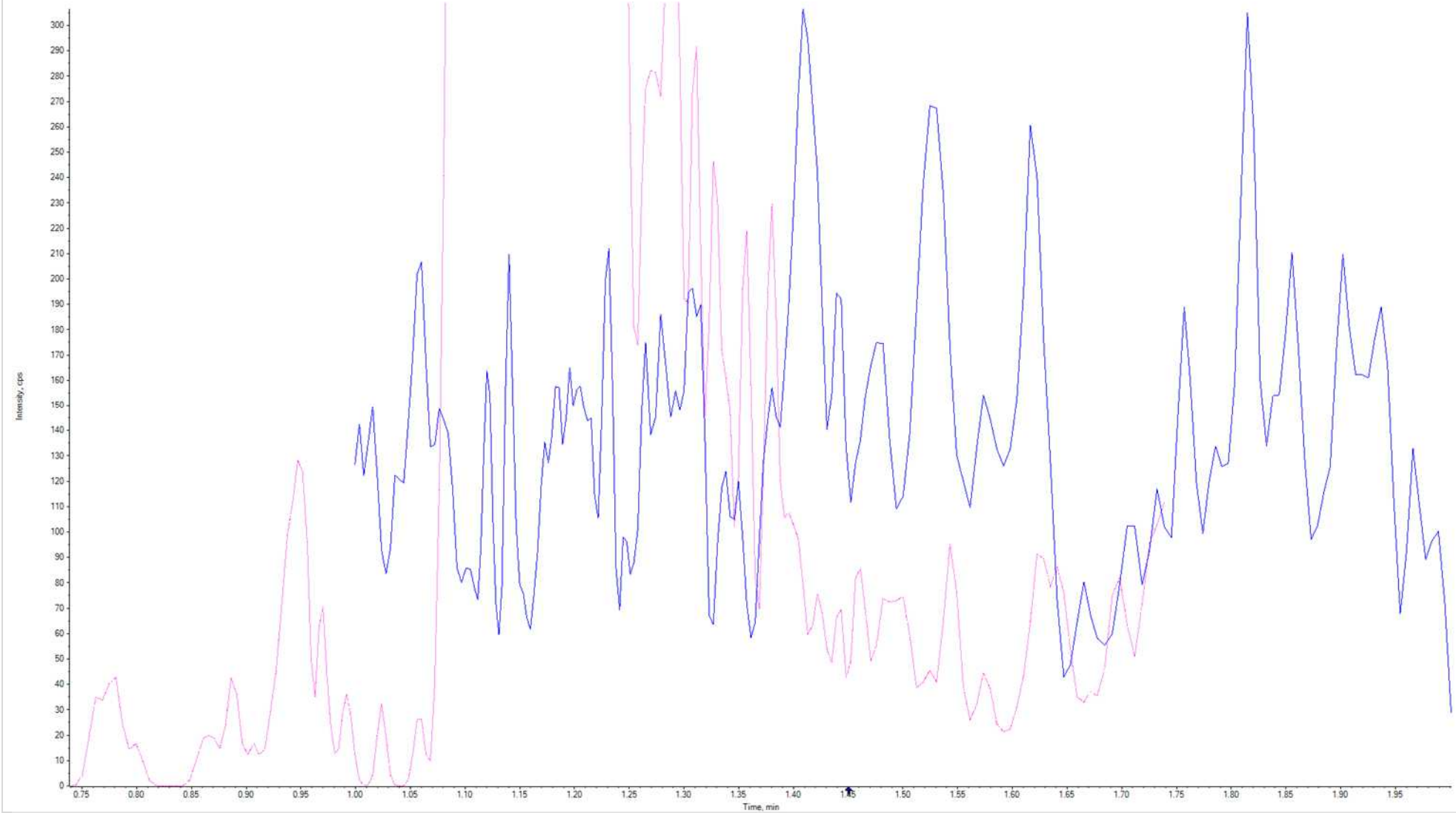
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

PFMPA
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



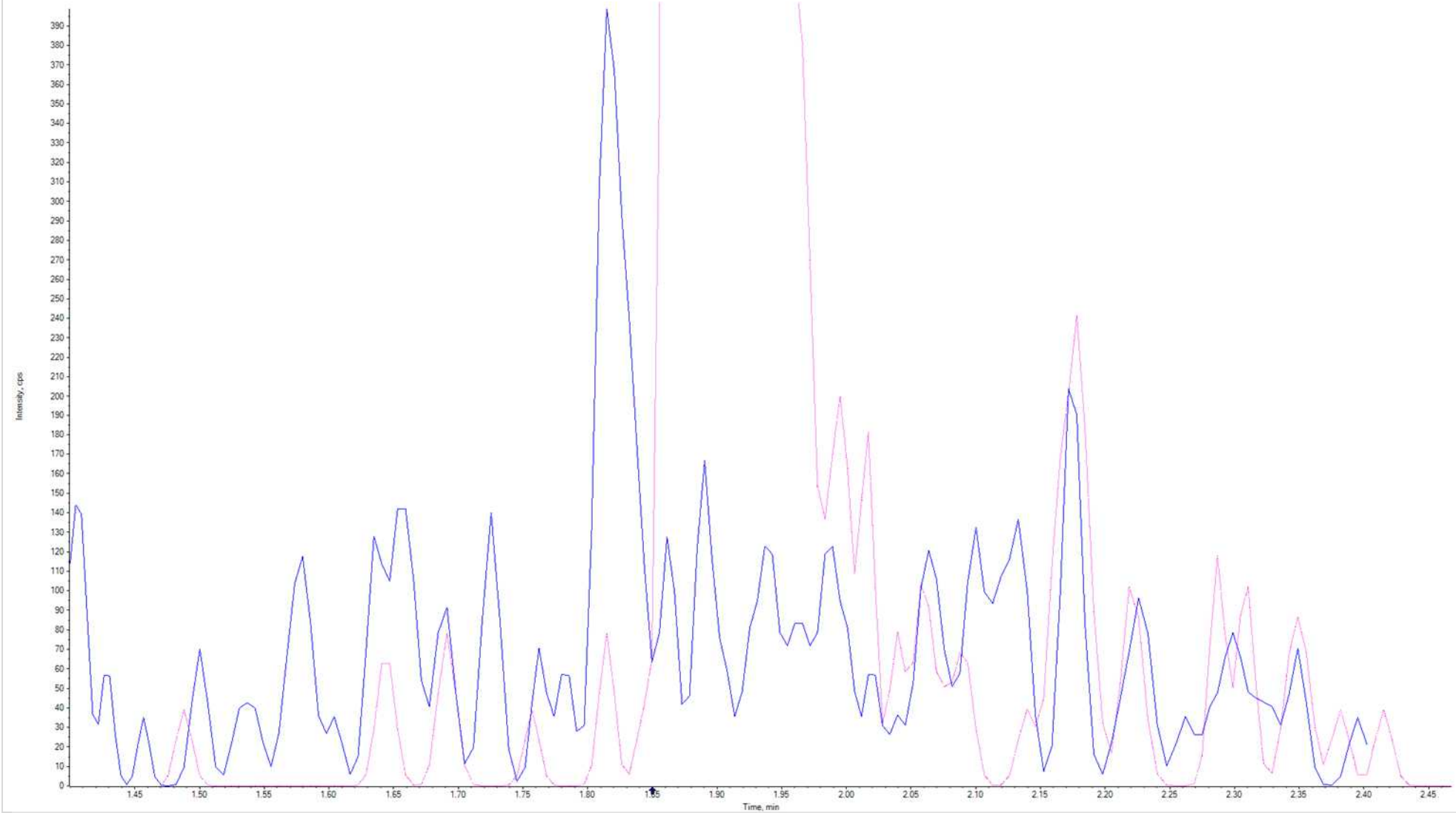
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Generated: 3/4/2025 5:58:35 AM

PFMBA
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



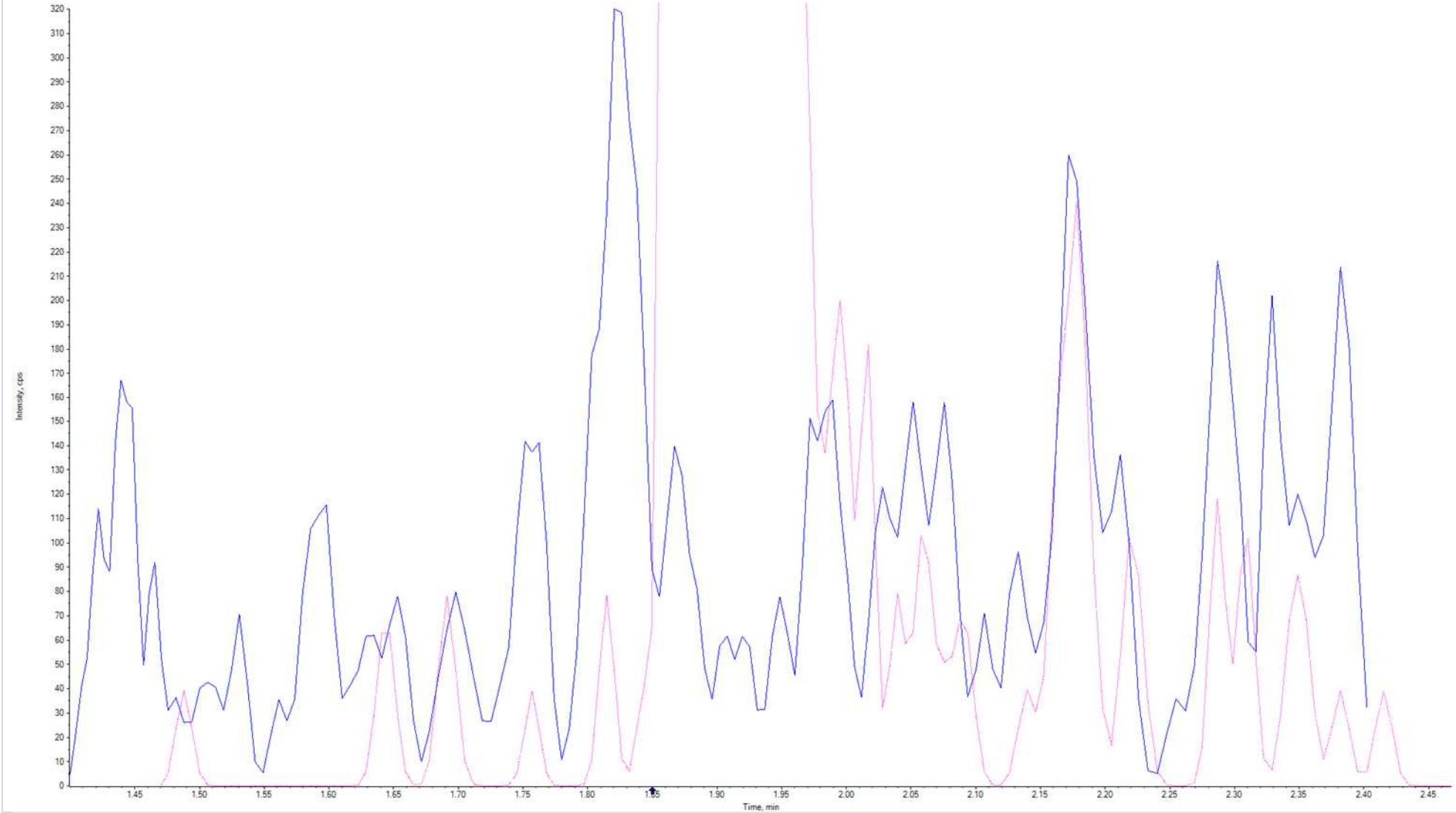
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

NFDHA
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



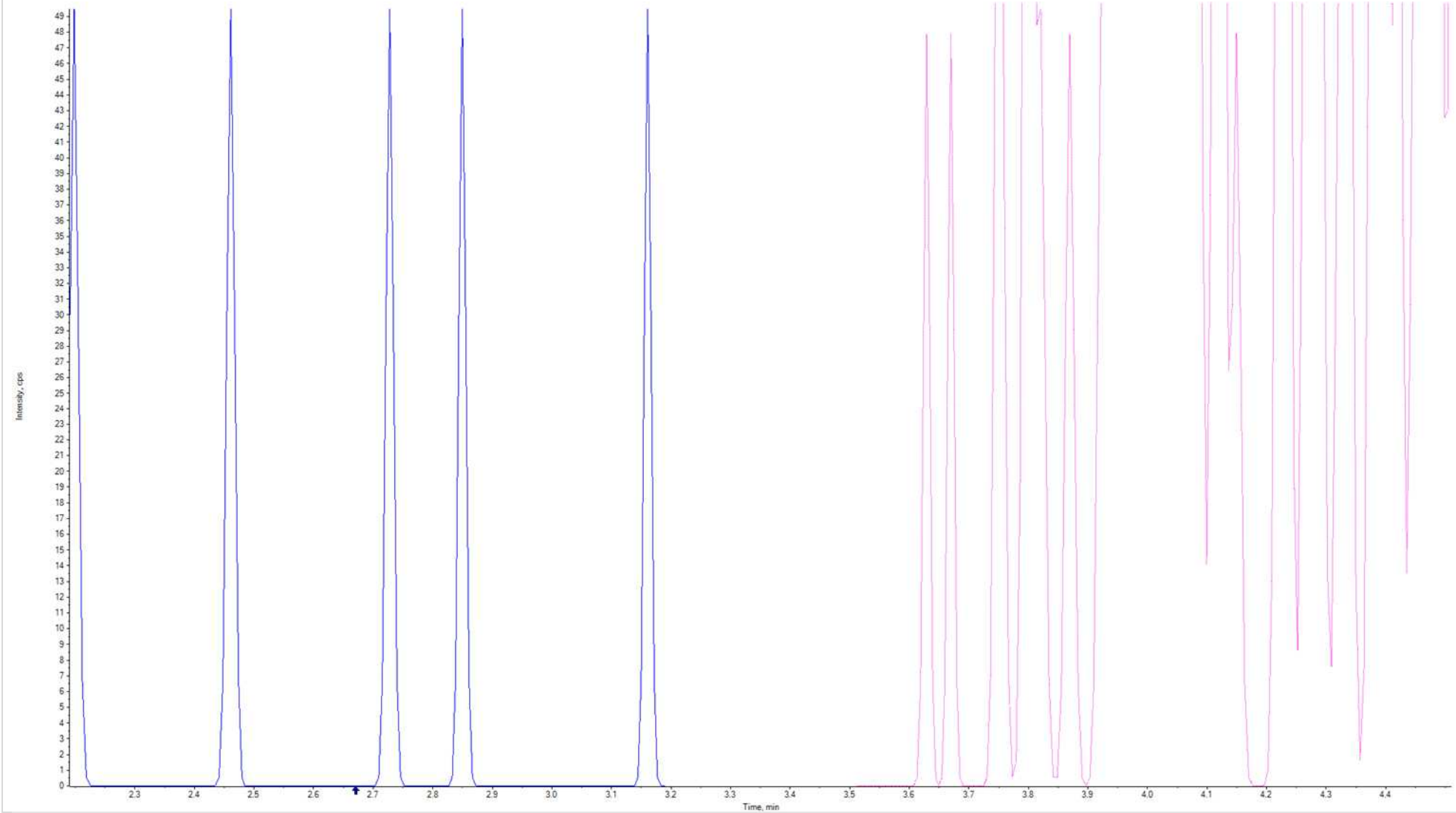
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

NFDHA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



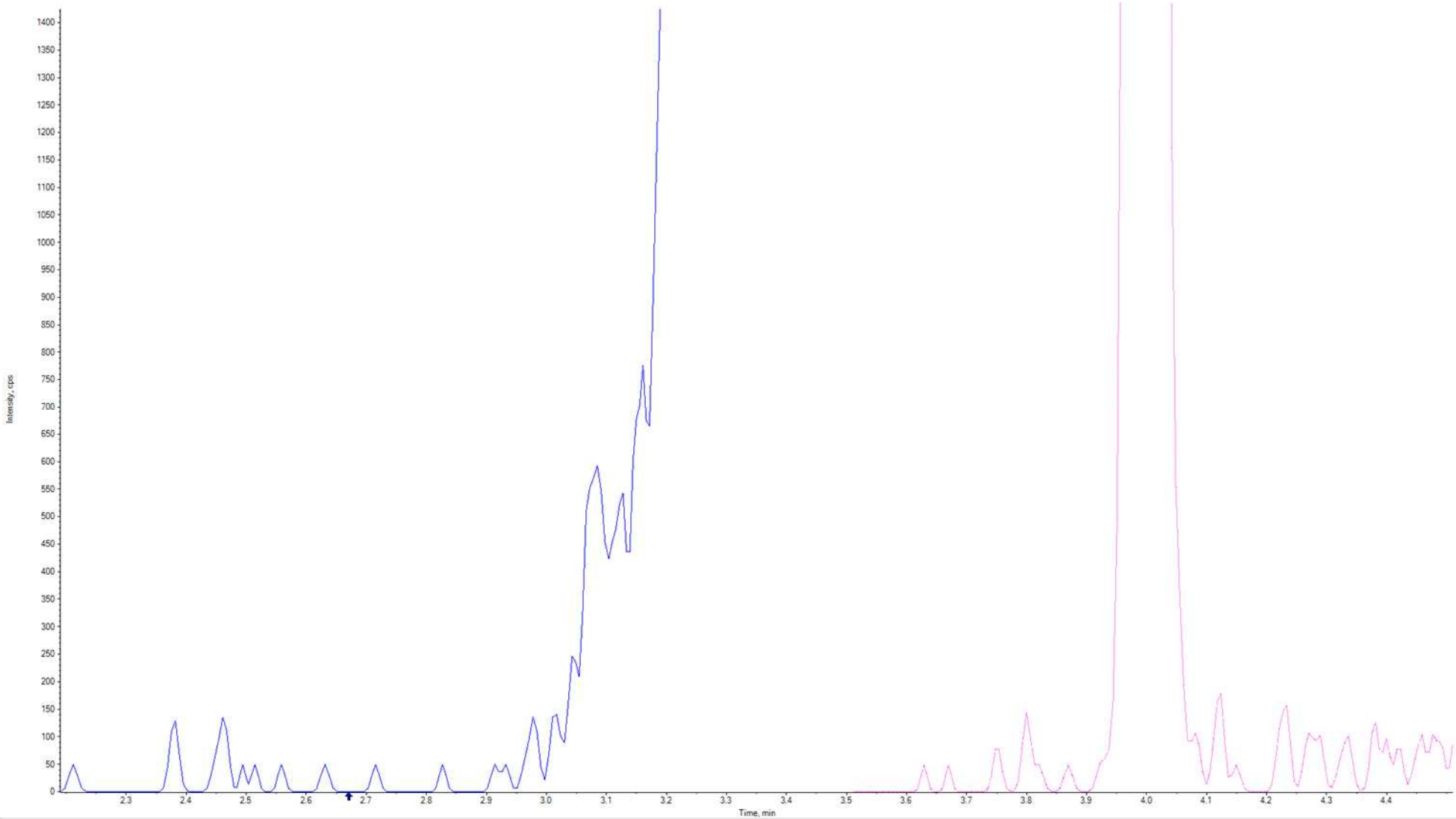
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

TDCA
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



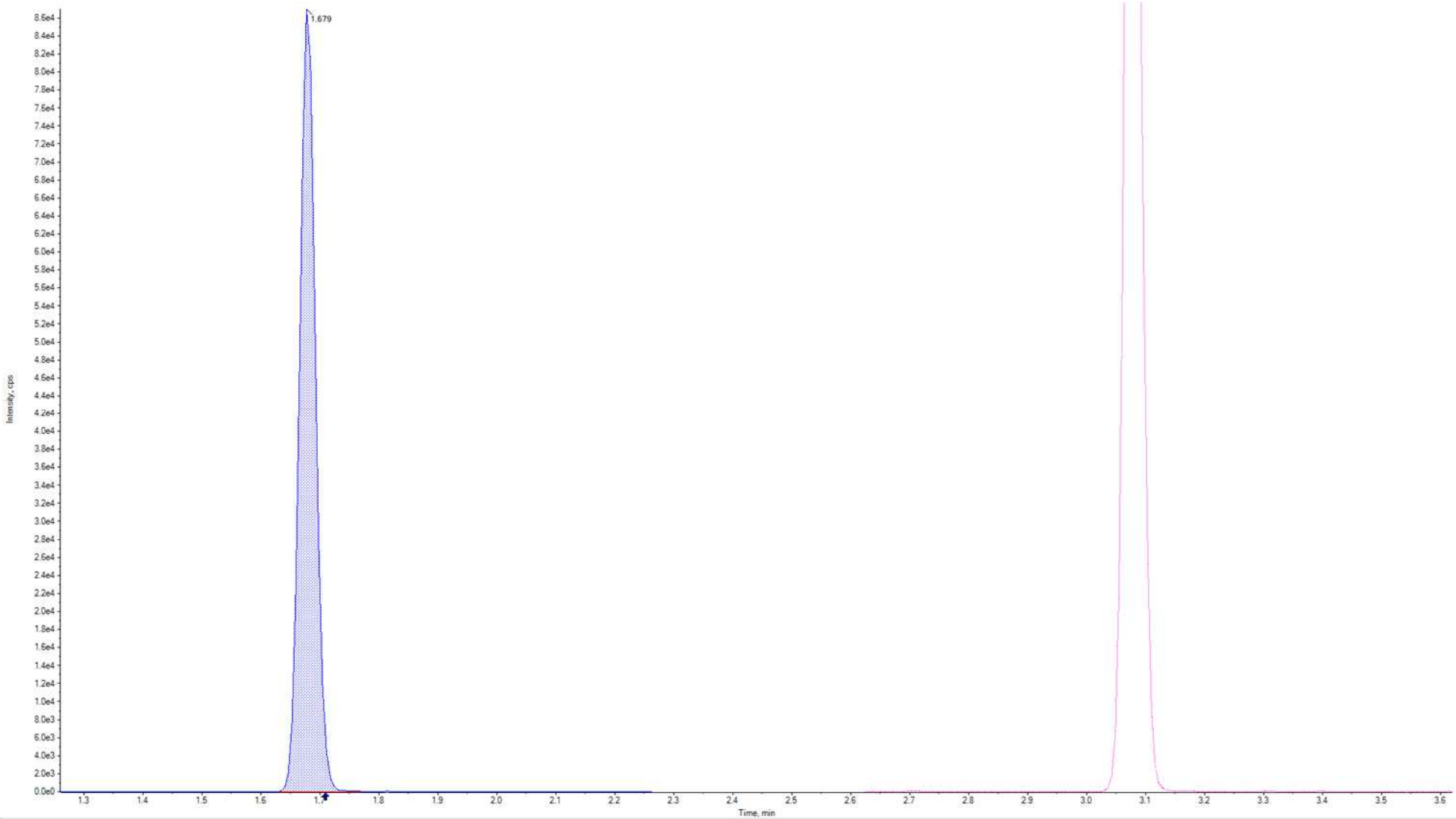
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

TDCA_2
Sample: WG2035972-2,INSTBLANK S/N:N/A Points Across peak:N/A



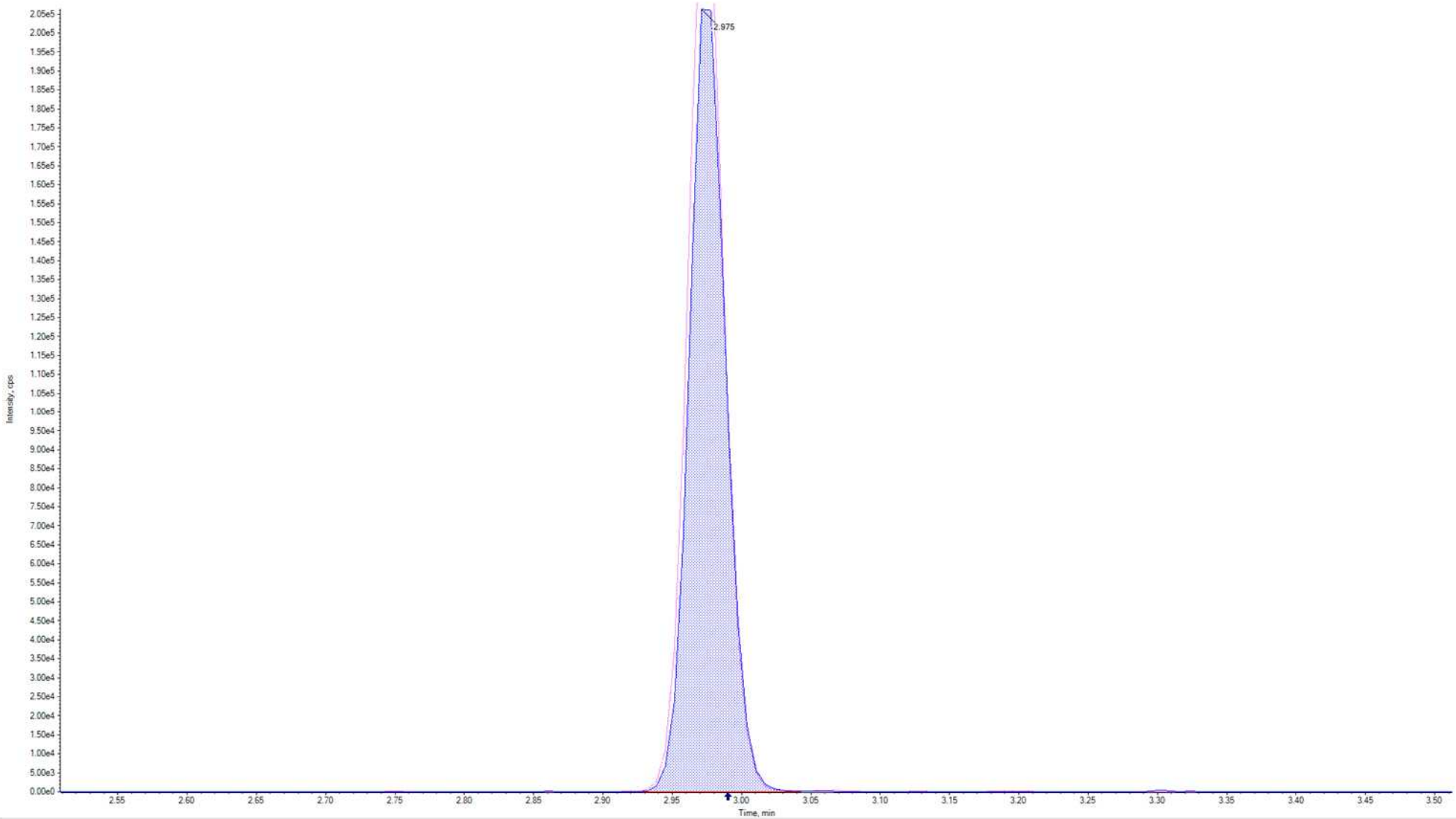
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Alpha Analytical LLC
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Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

13C2D4-4:2FTS
Sample: WG2035972-2,INSTBLANK S/N:3270.1 Points Across peak:32



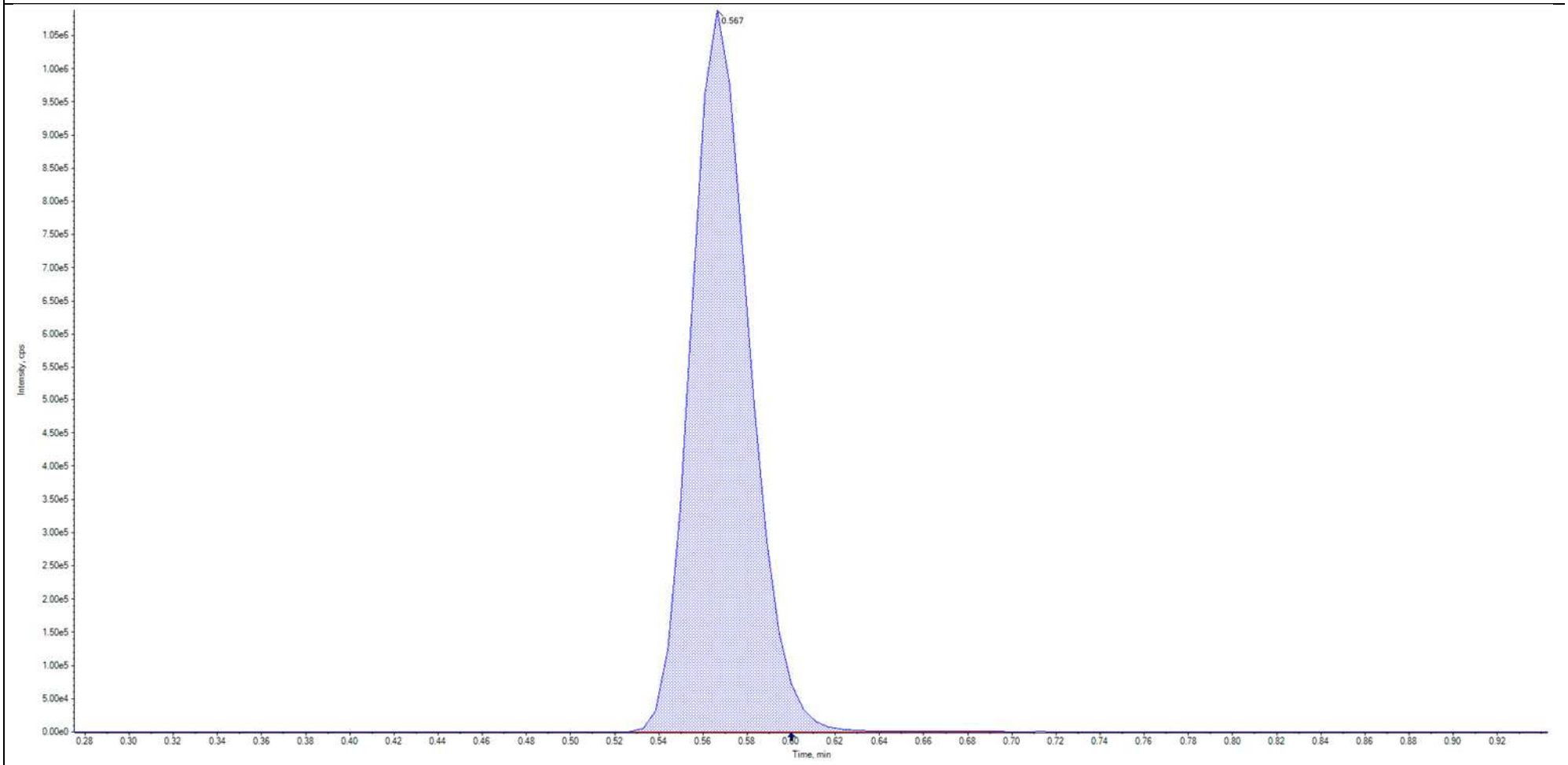
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13C2-PFOA
Sample: WG2035972-2,INSTBLANK S/N:4654.0 Points Across peak:23

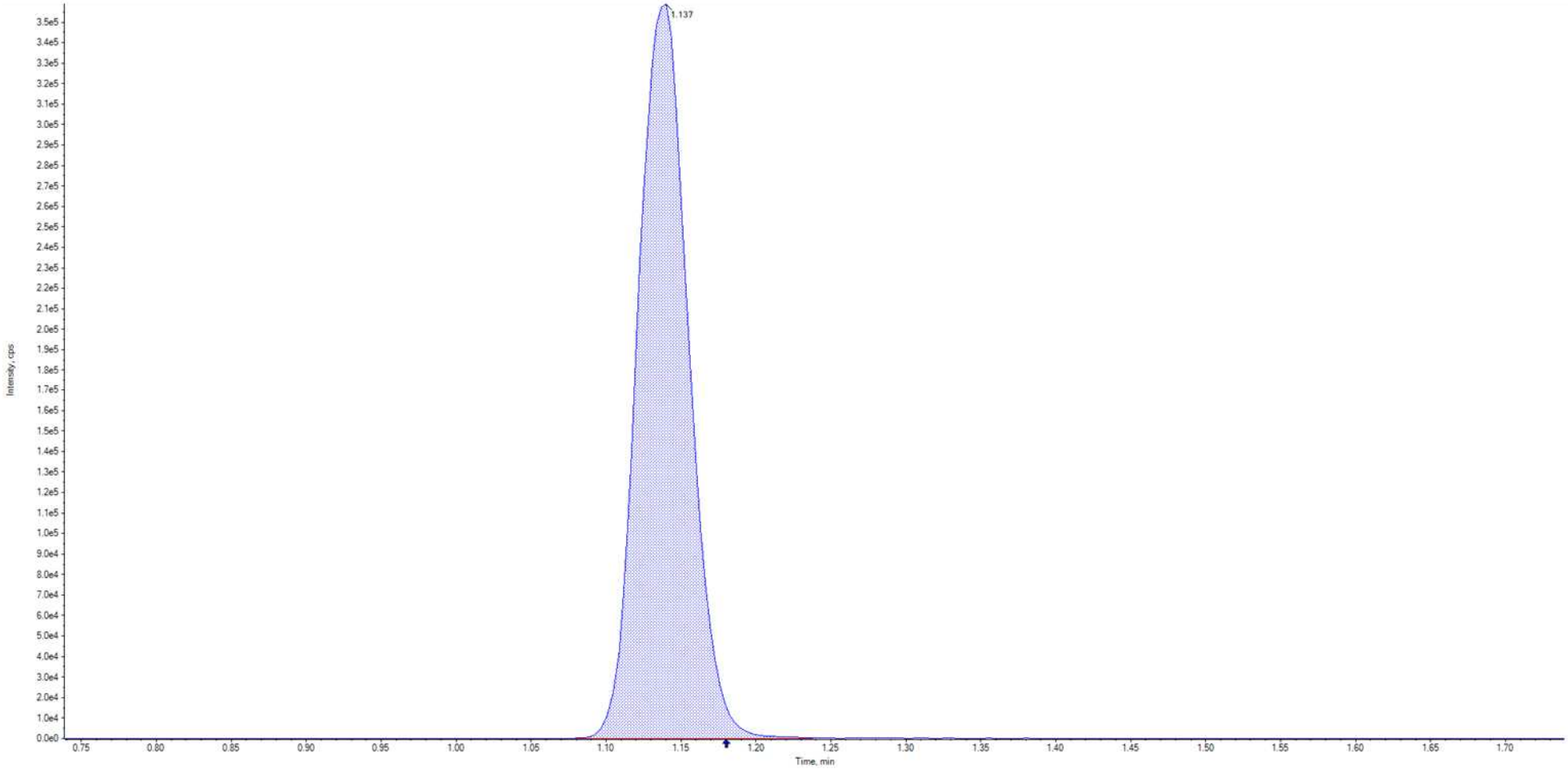


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

13C4-PFBA
Sample: WG2035972-2,INSTBLANK

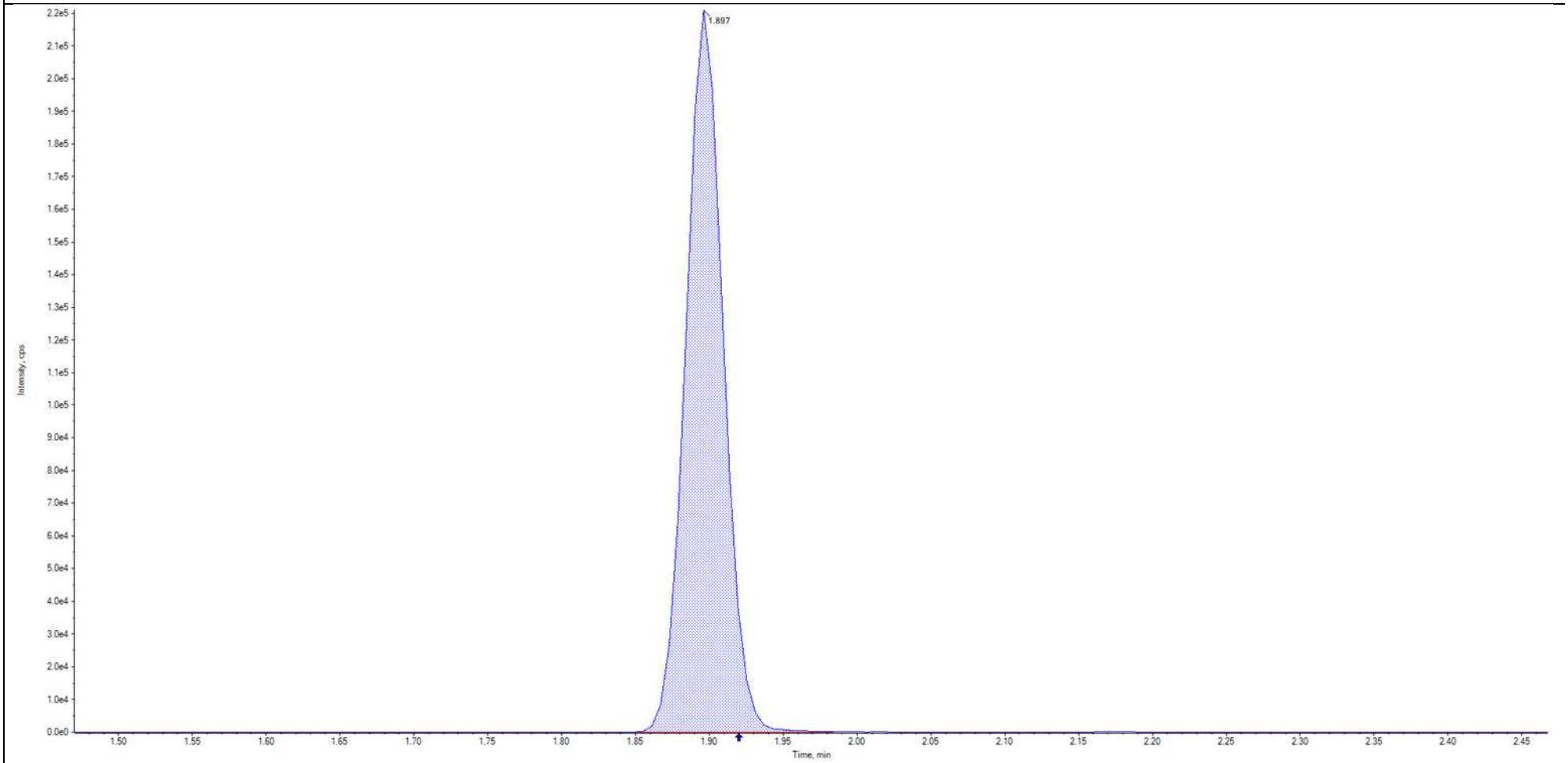


13C5-PFPeA
Sample: WG2035972-2,INSTBLANK



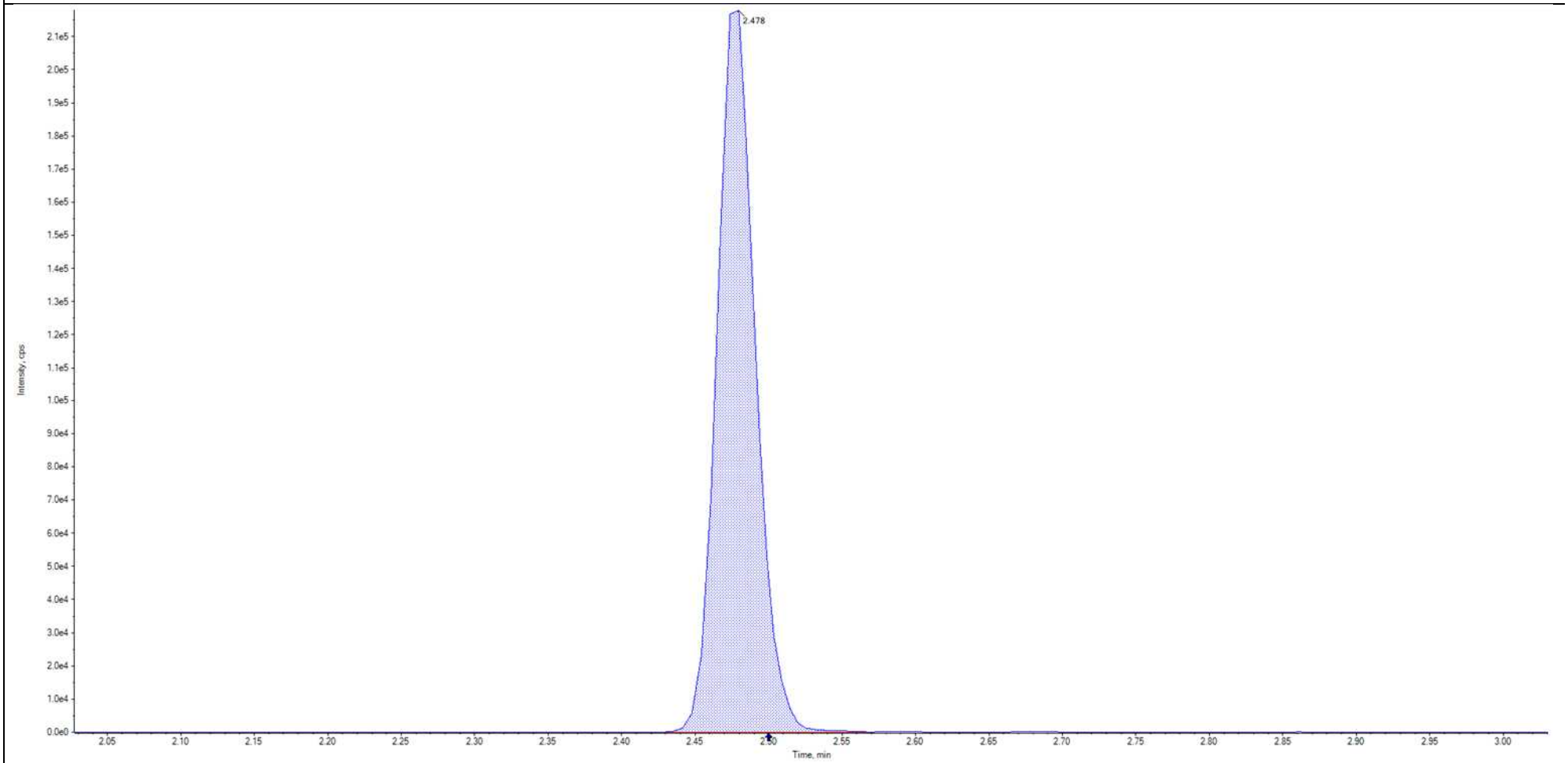
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Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

13C5-PFHxA
Sample: WG2035972-2,INSTBLANK

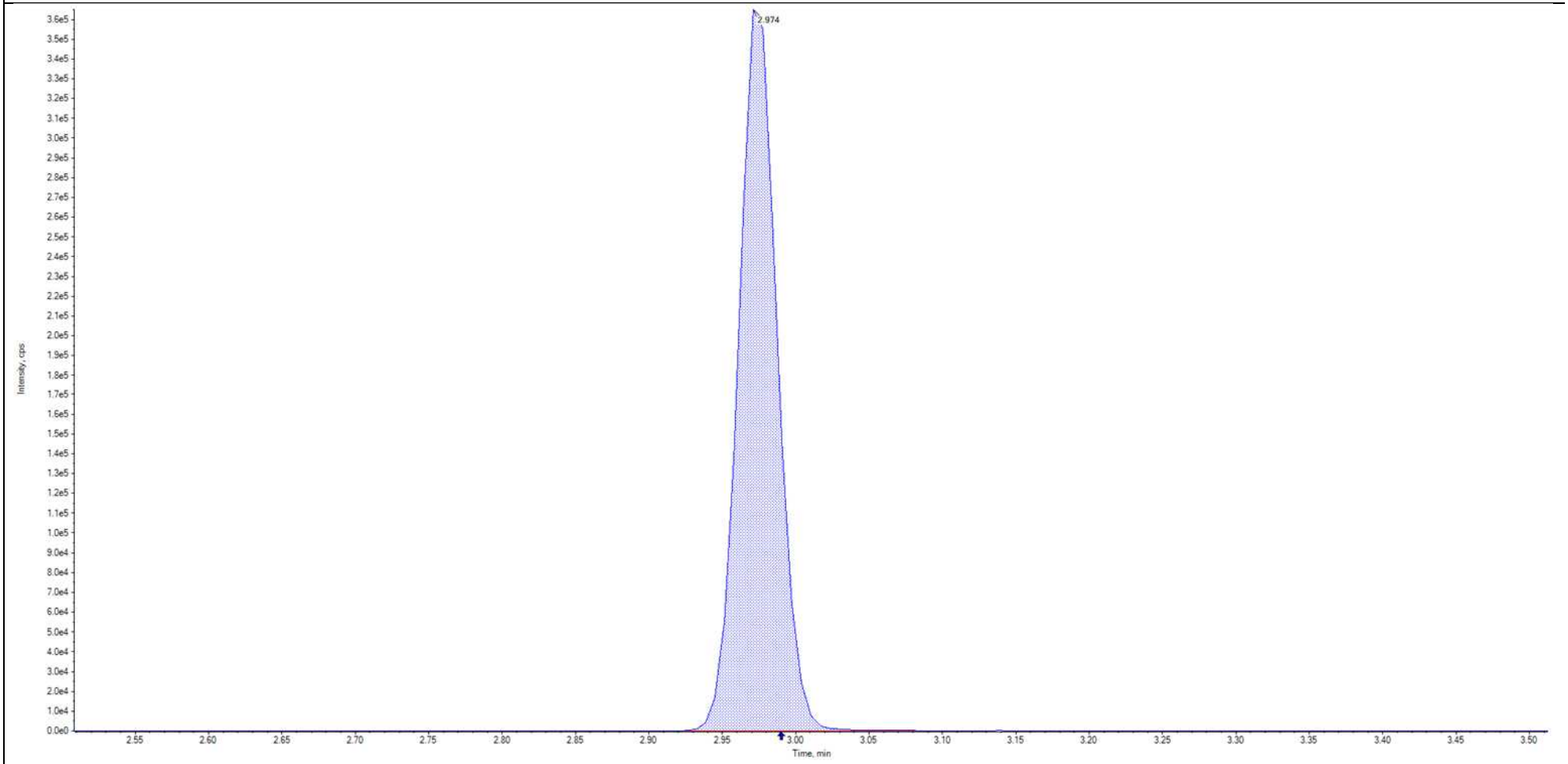


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

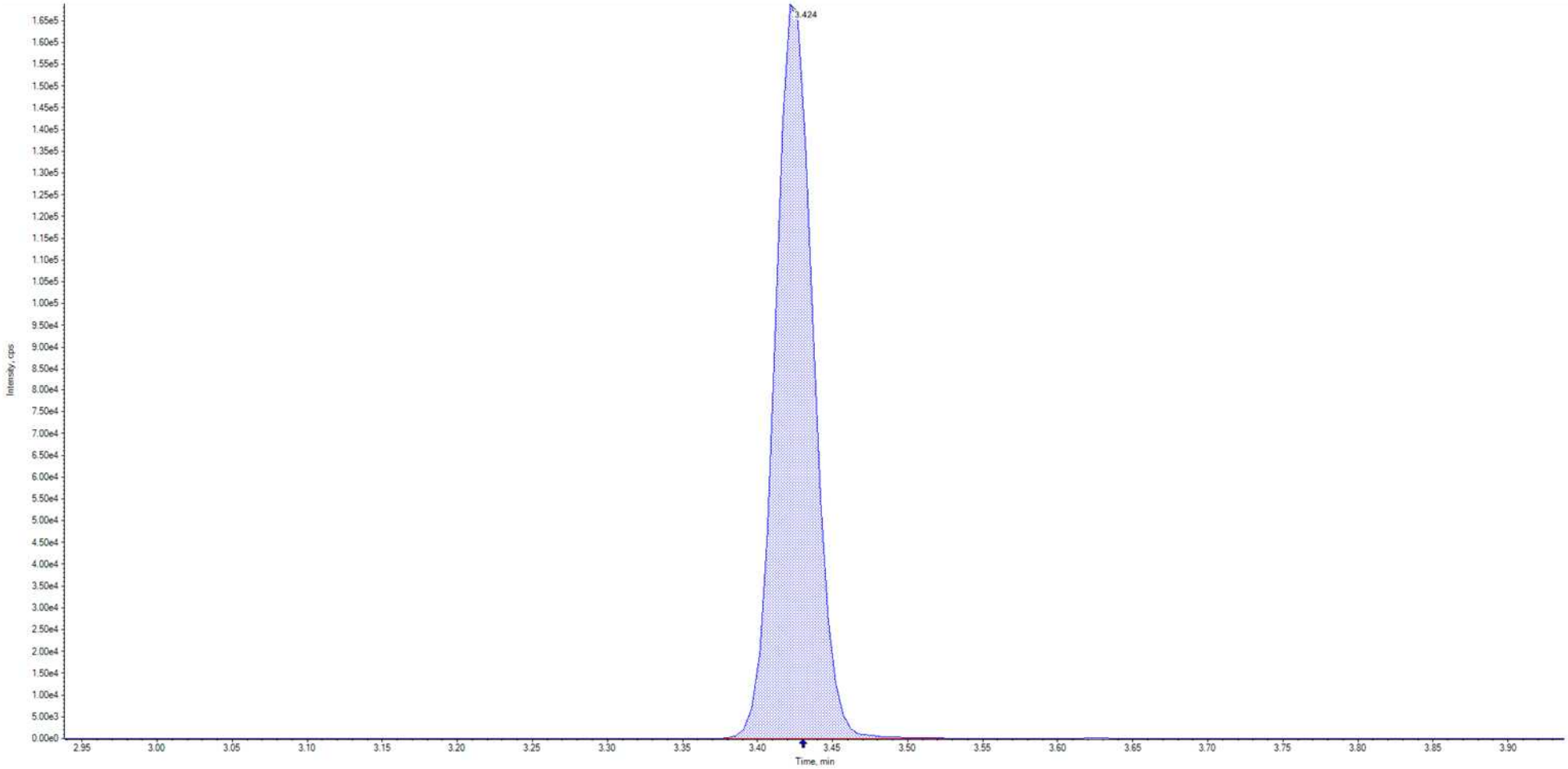
13C4-PFHpA
Sample: WG2035972-2,INSTBLANK



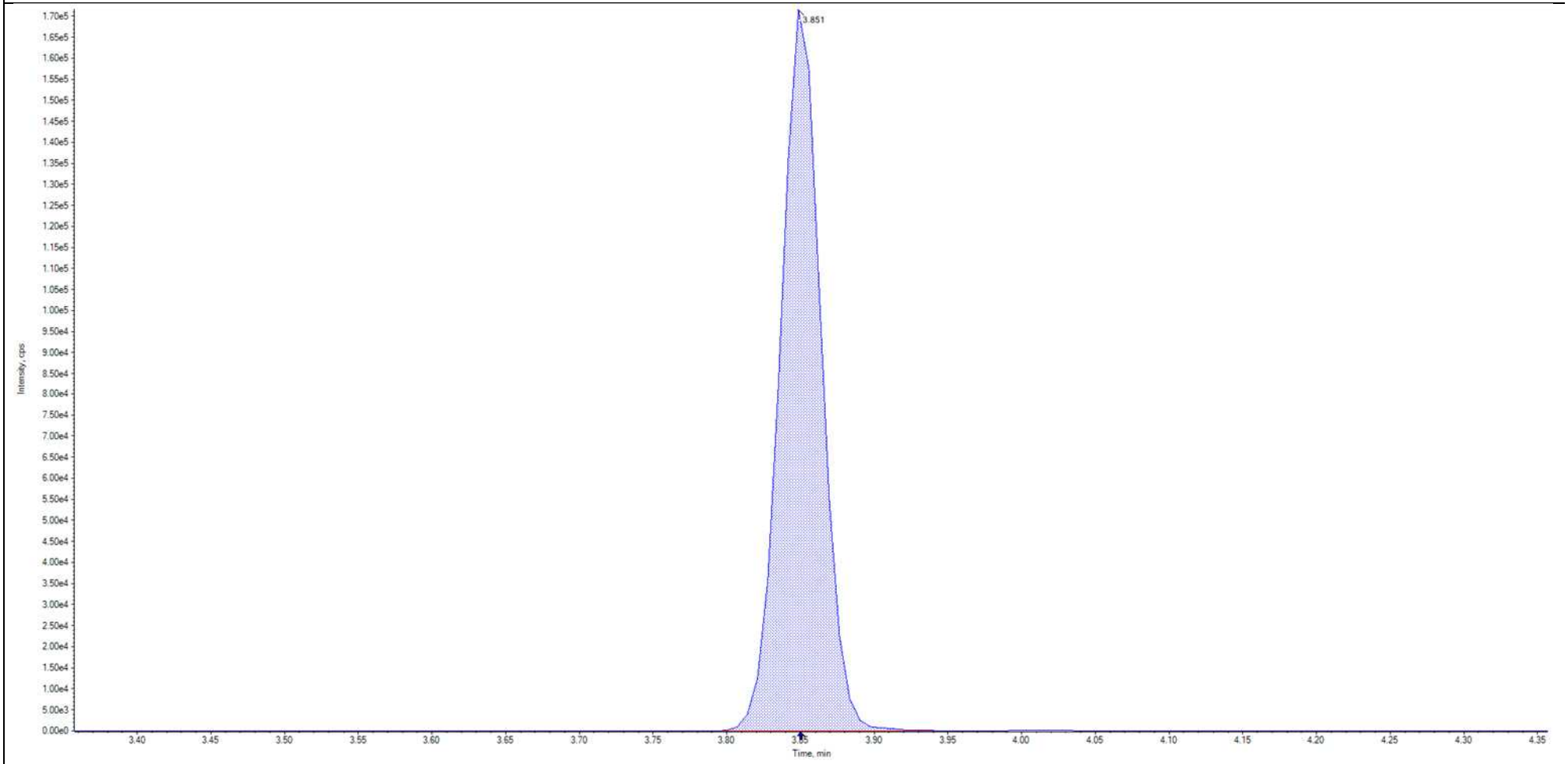
13C8-PFOA
Sample: WG2035972-2,INSTBLANK



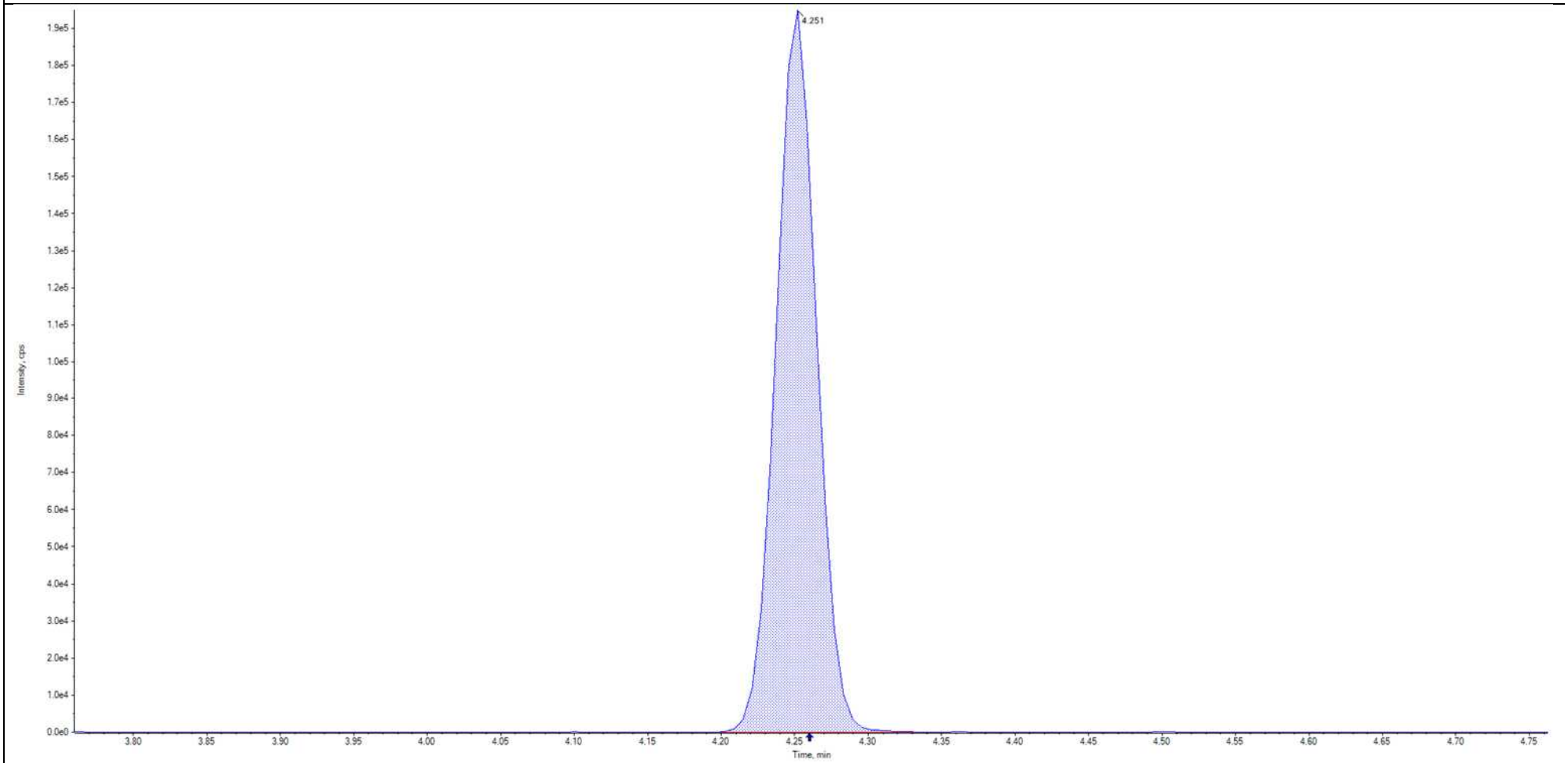
13C9-PFNA
Sample: WG2035972-2,INSTBLANK



13C6-PFDA
Sample: WG2035972-2,INSTBLANK

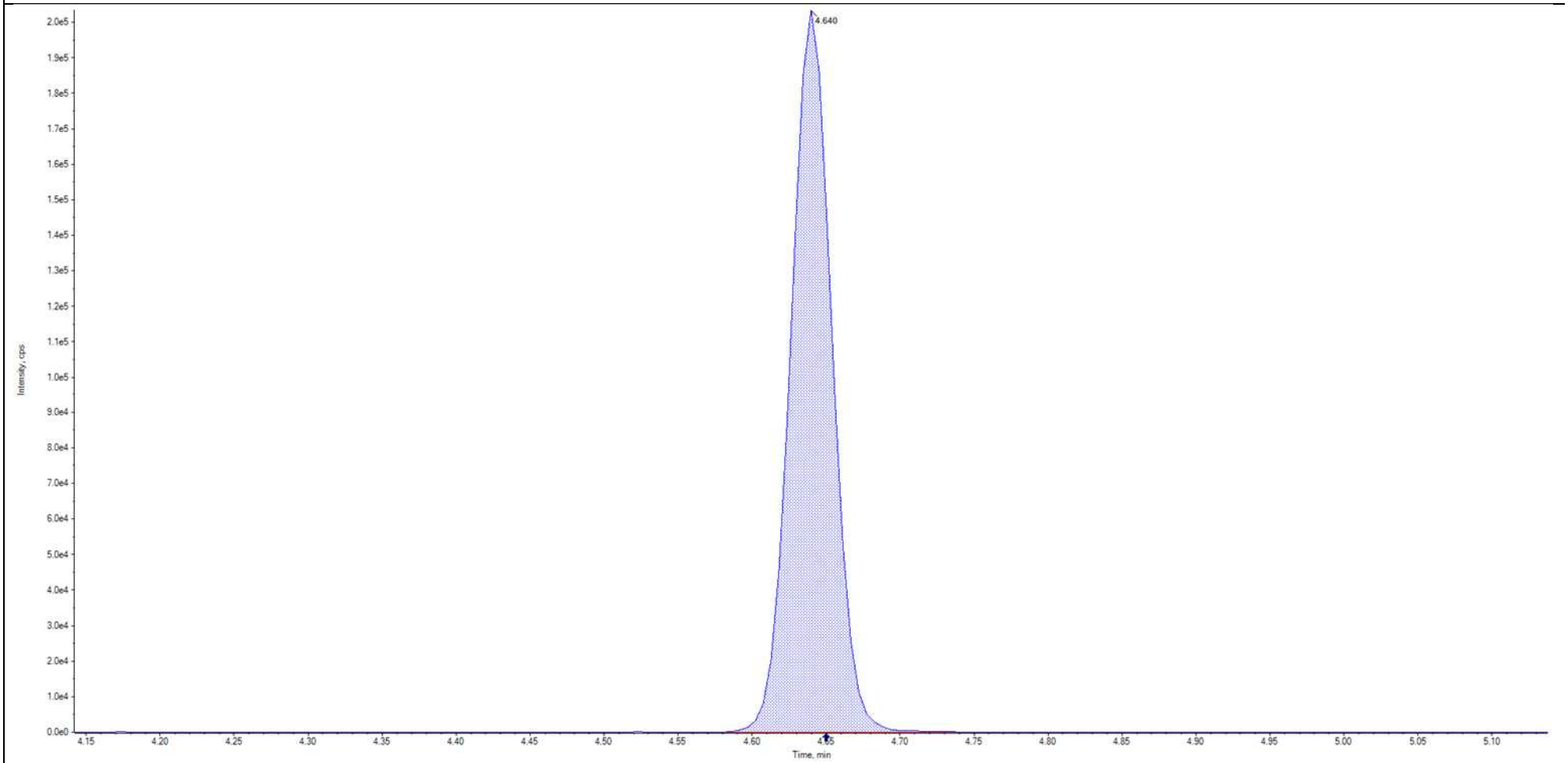


13C7-PFUnA
Sample: WG2035972-2,INSTBLANK

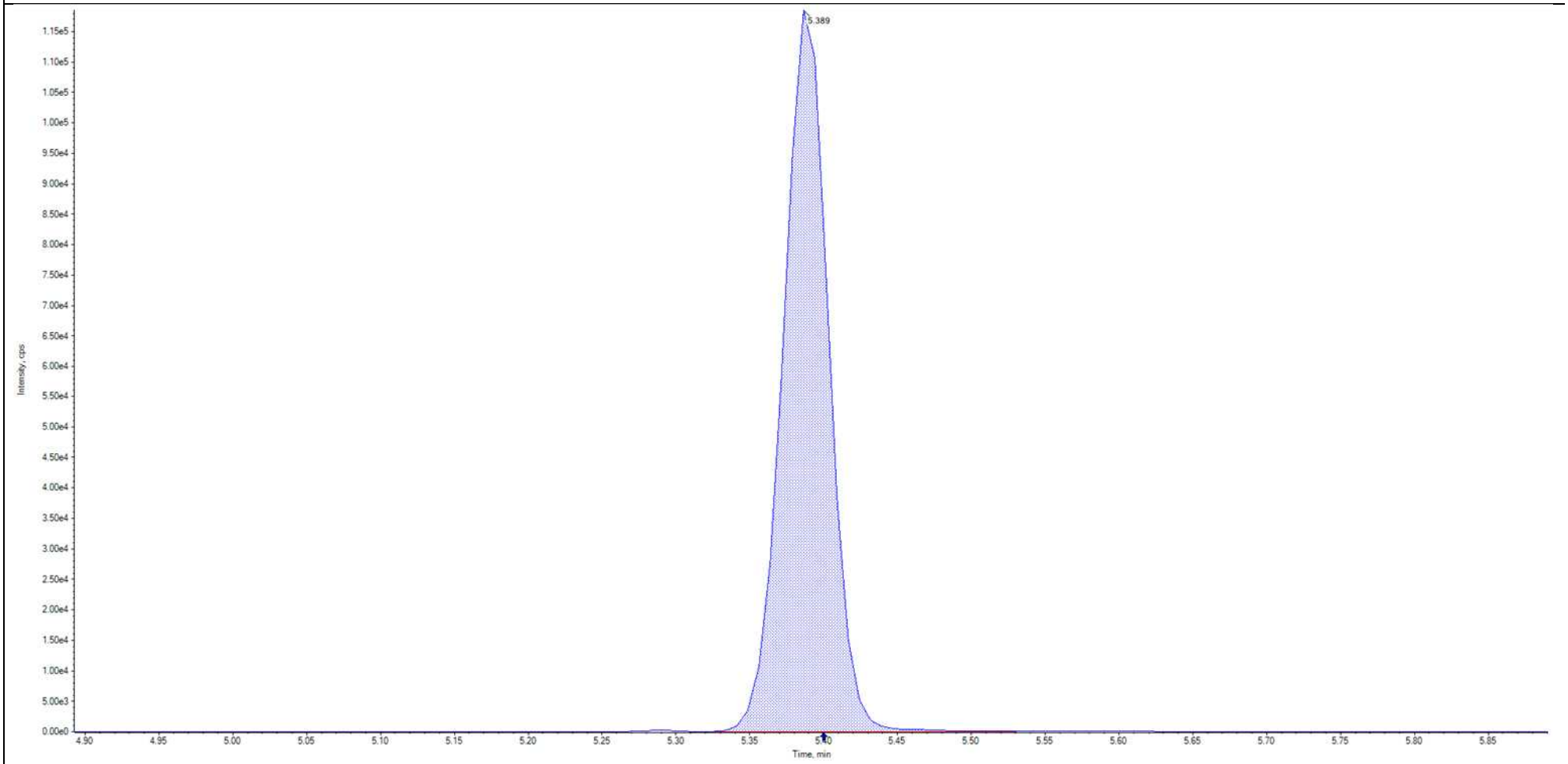


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

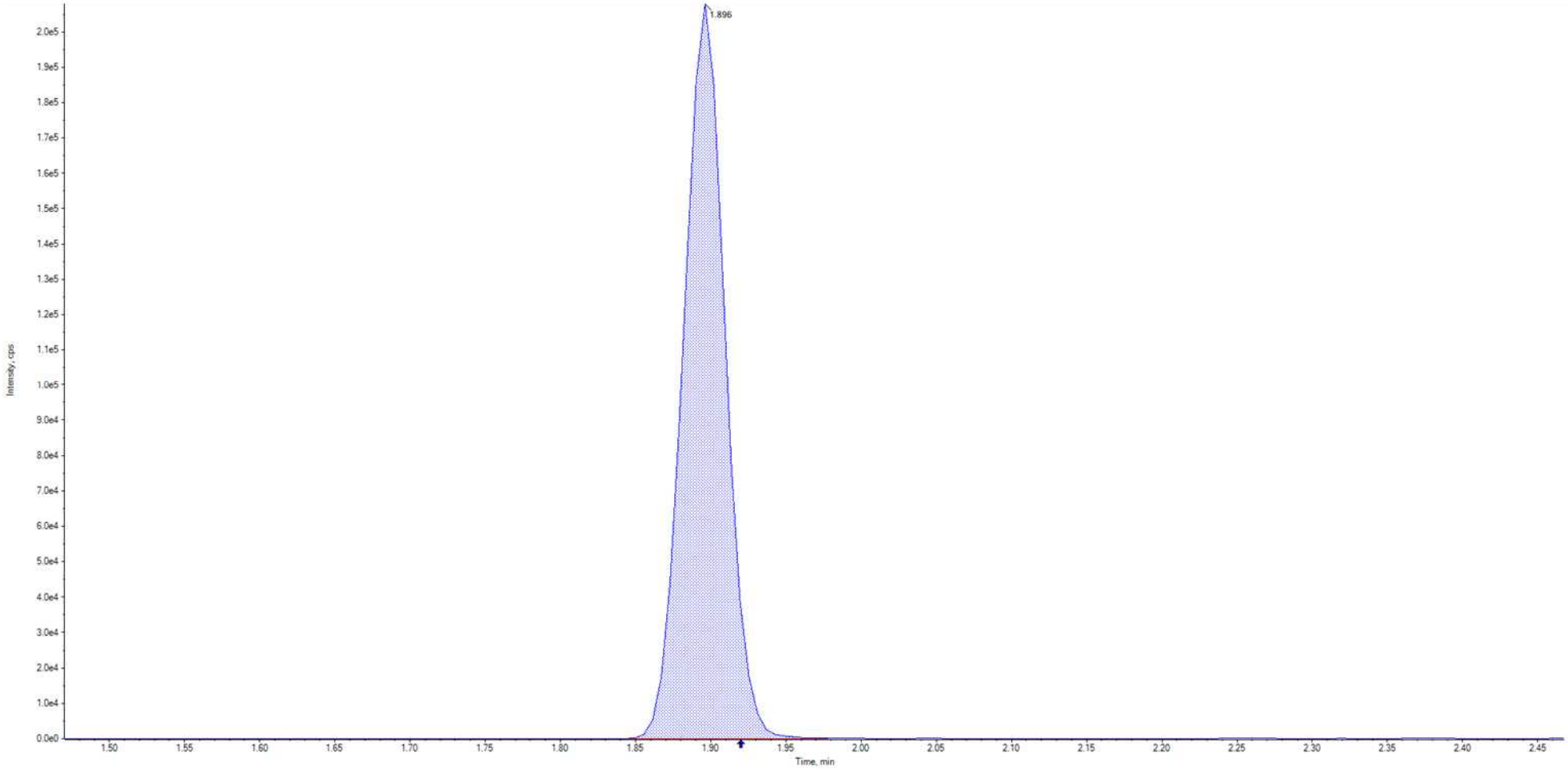
13C2-PFDoA
Sample: WG2035972-2,INSTBLANK



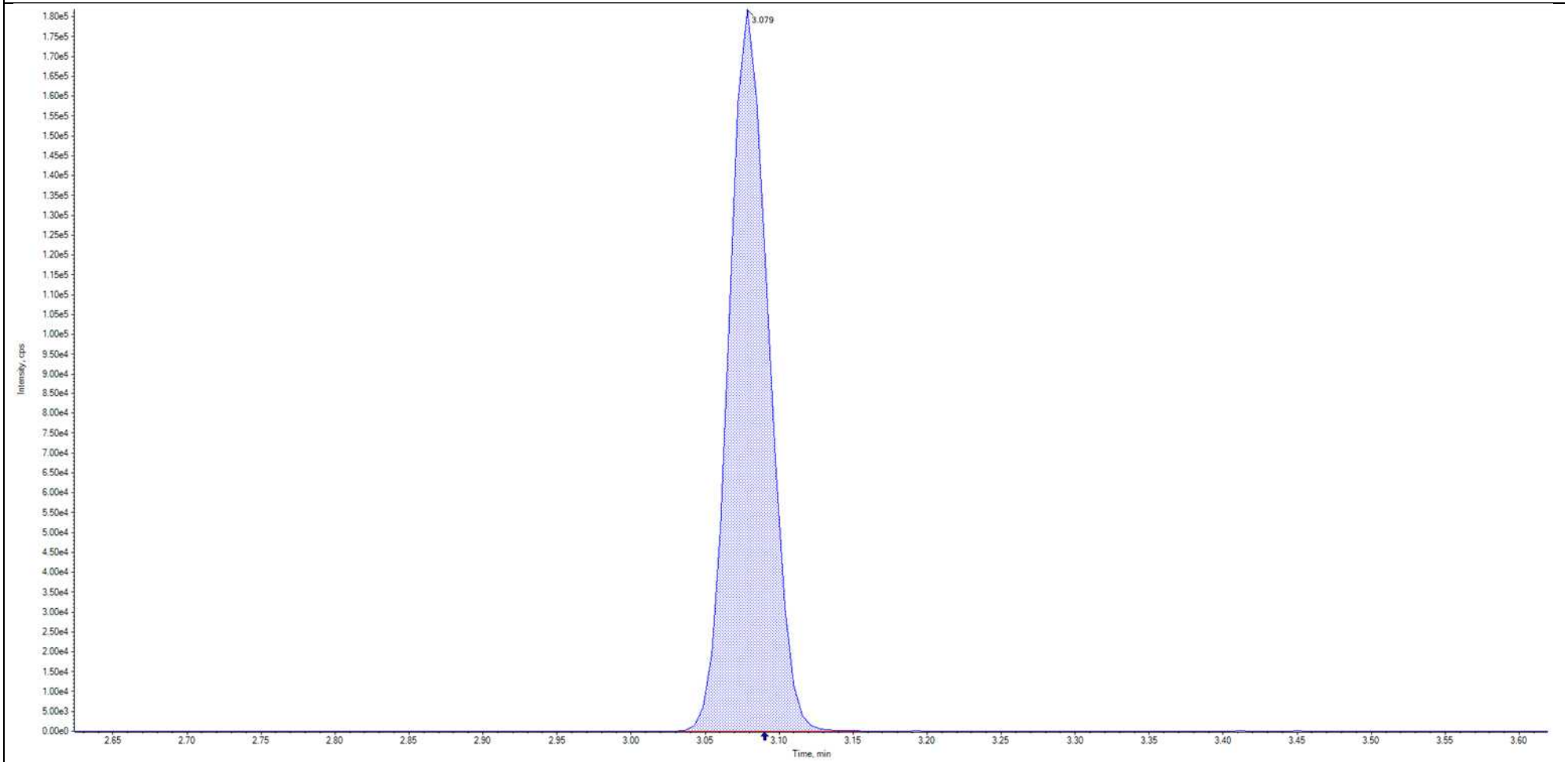
13C2-PFTeDA
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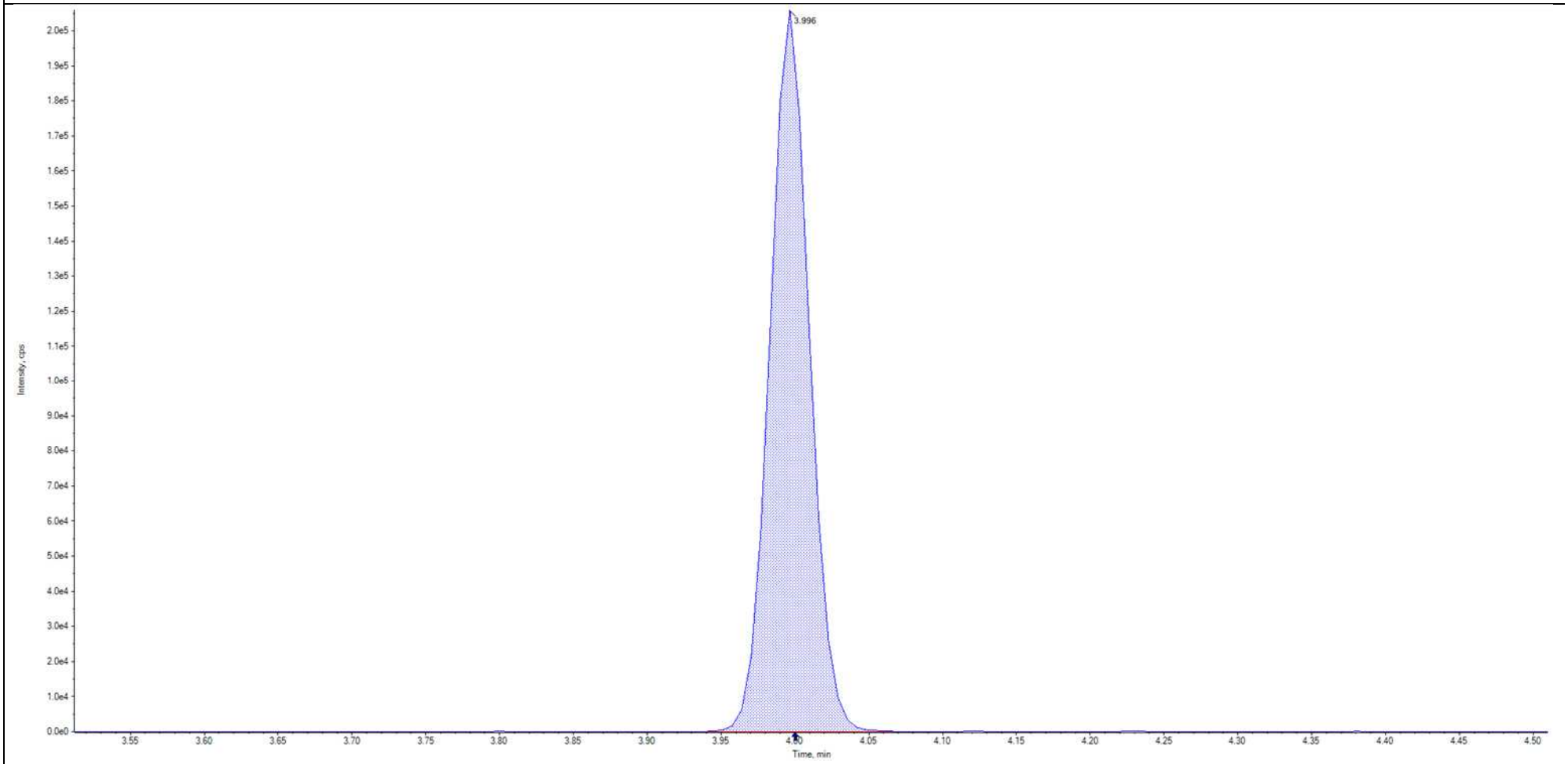
13C3-PFBS
Sample: WG2035972-2,INSTBLANK



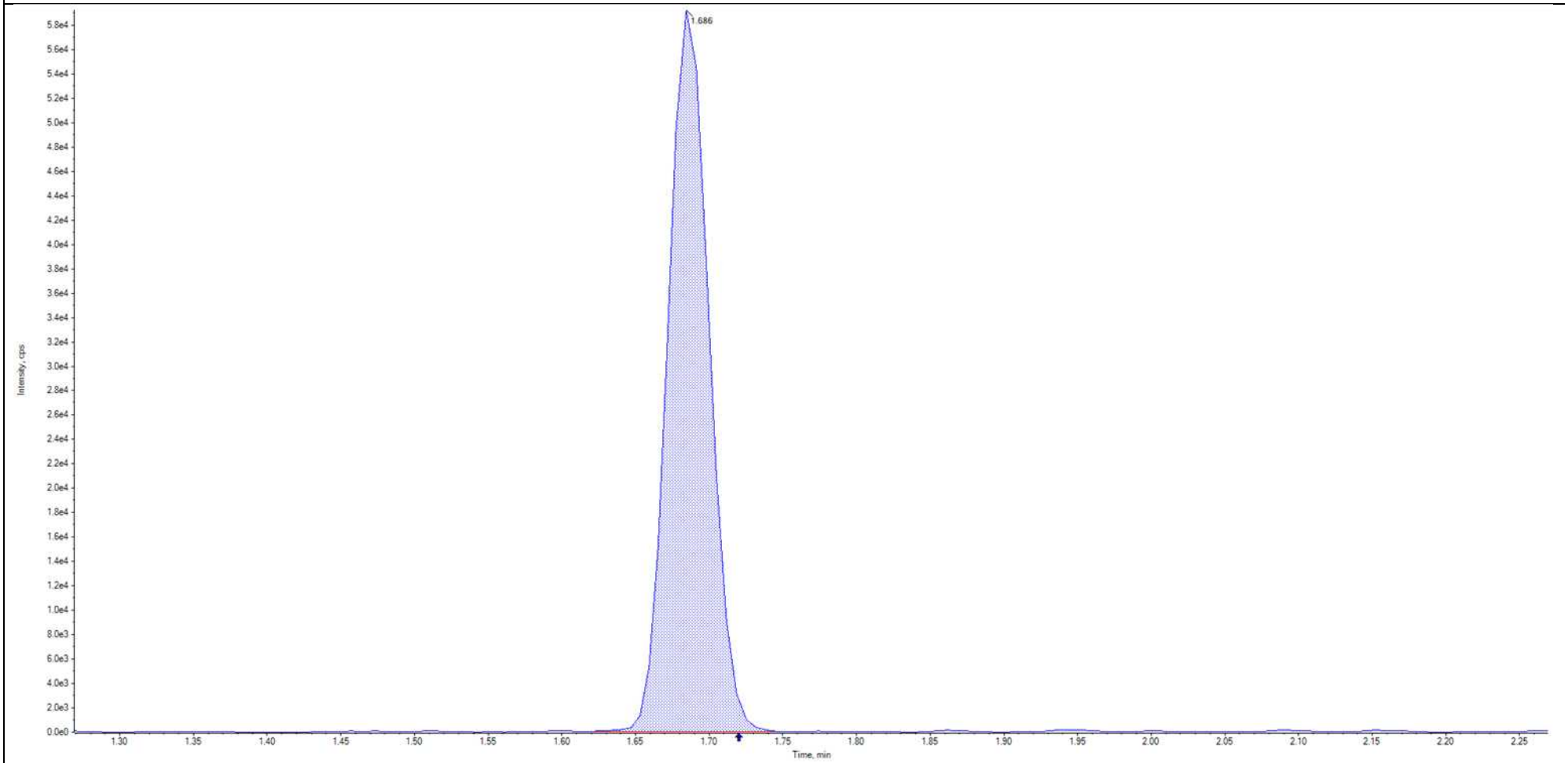
13C3-PFHxS
Sample: WG2035972-2,INSTBLANK



13C8-PFOS
Sample: WG2035972-2,INSTBLANK

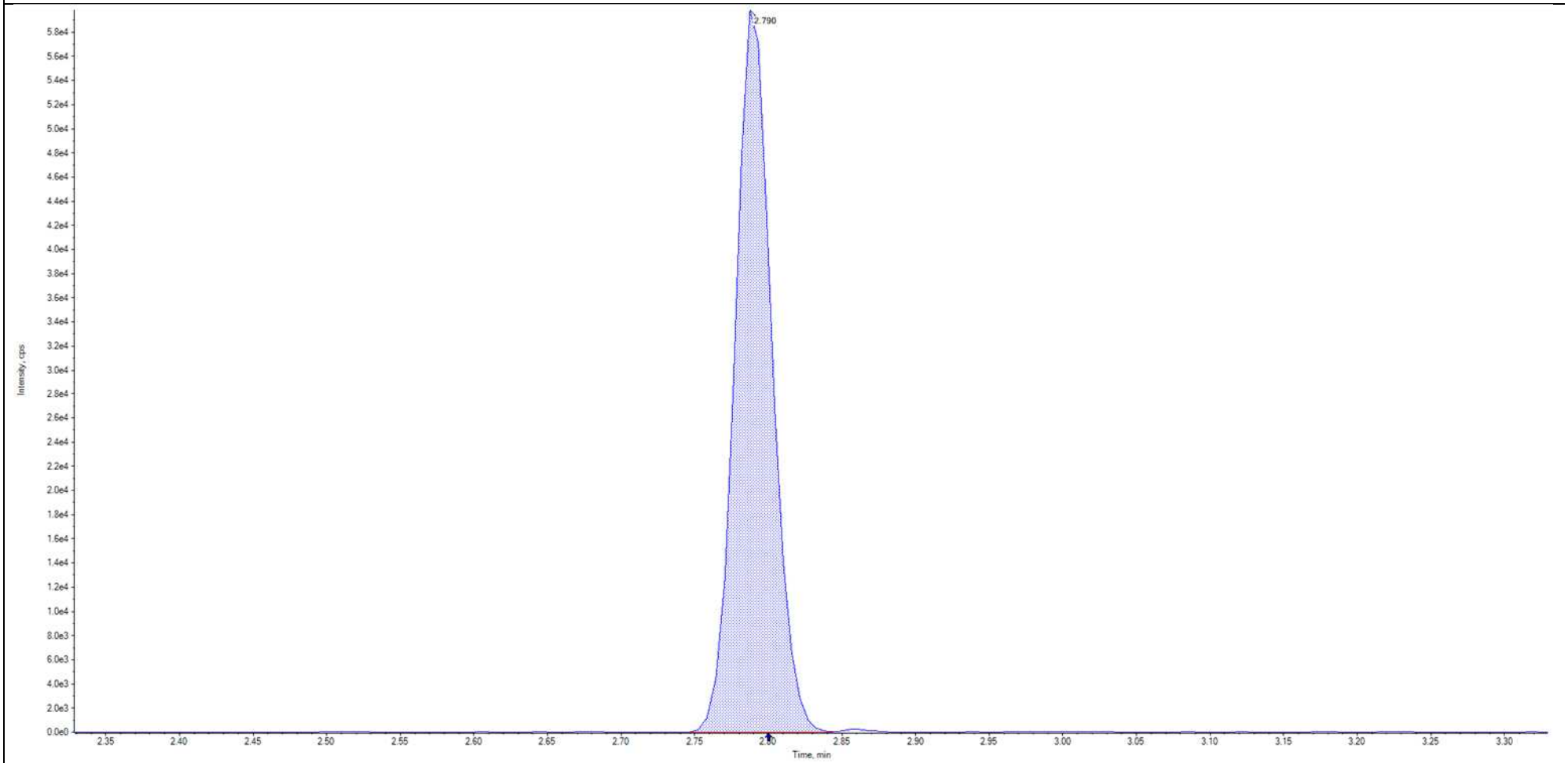


13C2-4:2FTS
Sample: WG2035972-2,INSTBLANK



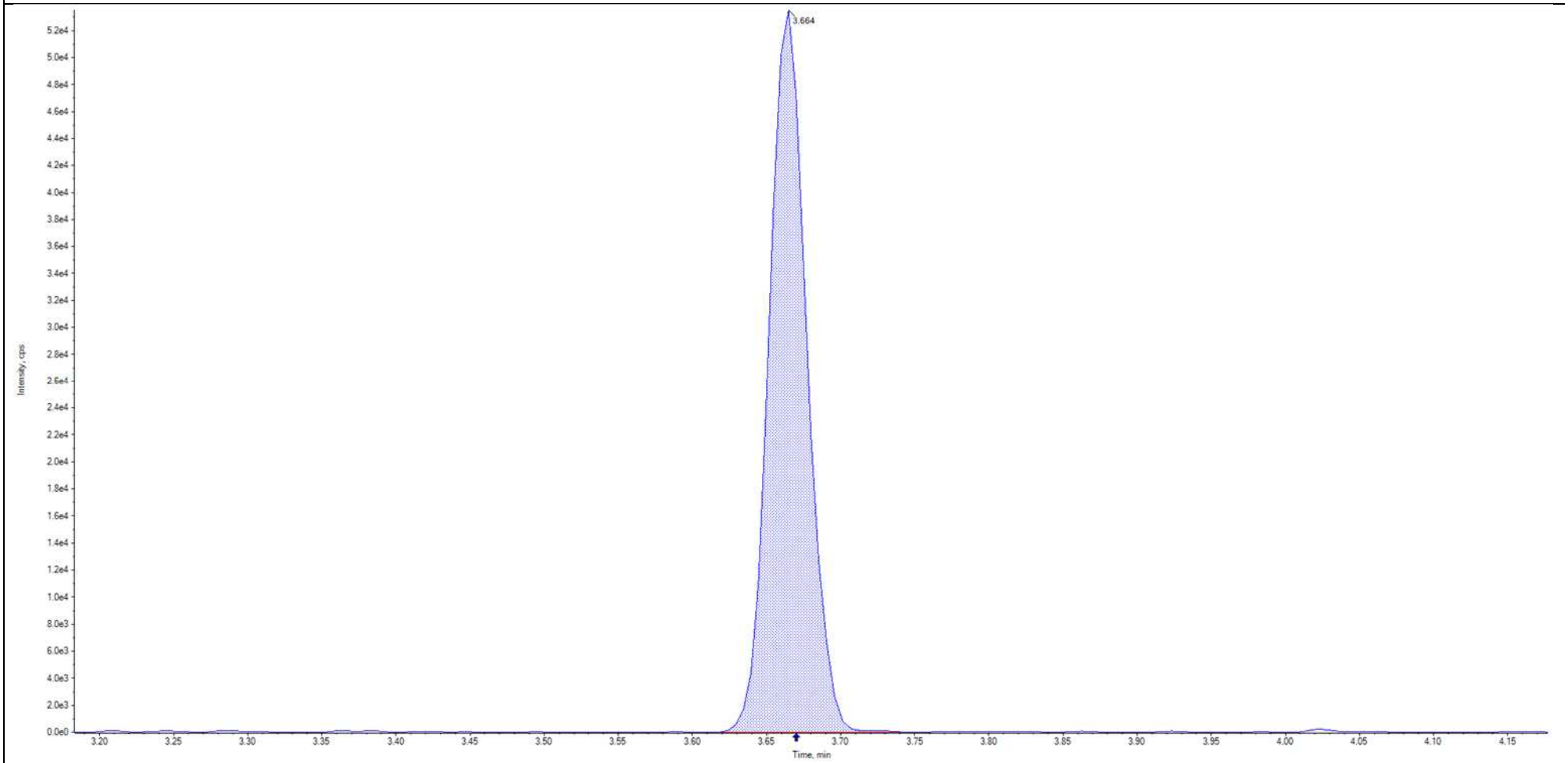
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_31.wiff2_1
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

13C2-6:2FTS
Sample: WG2035972-2,INSTBLANK

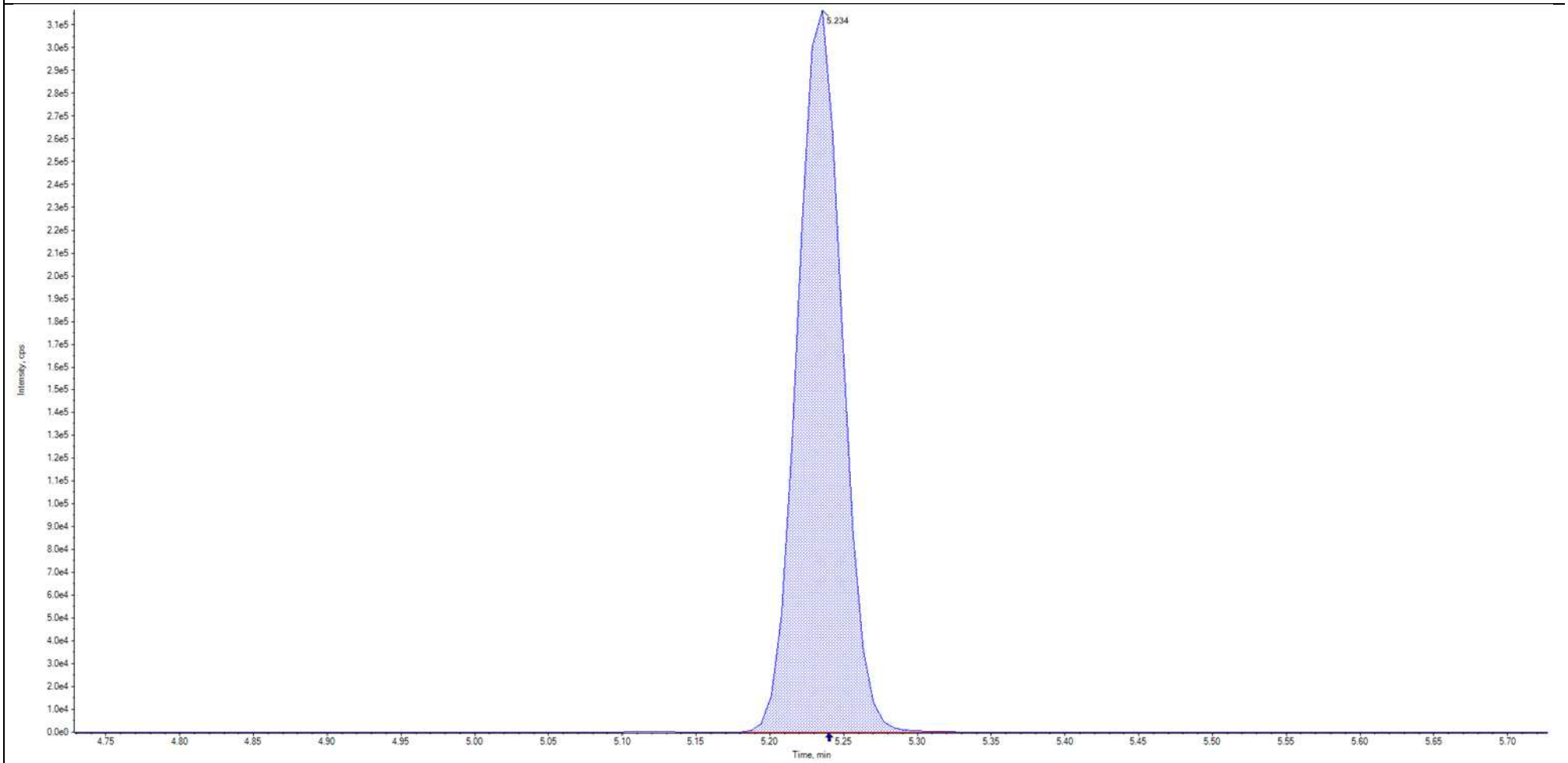


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

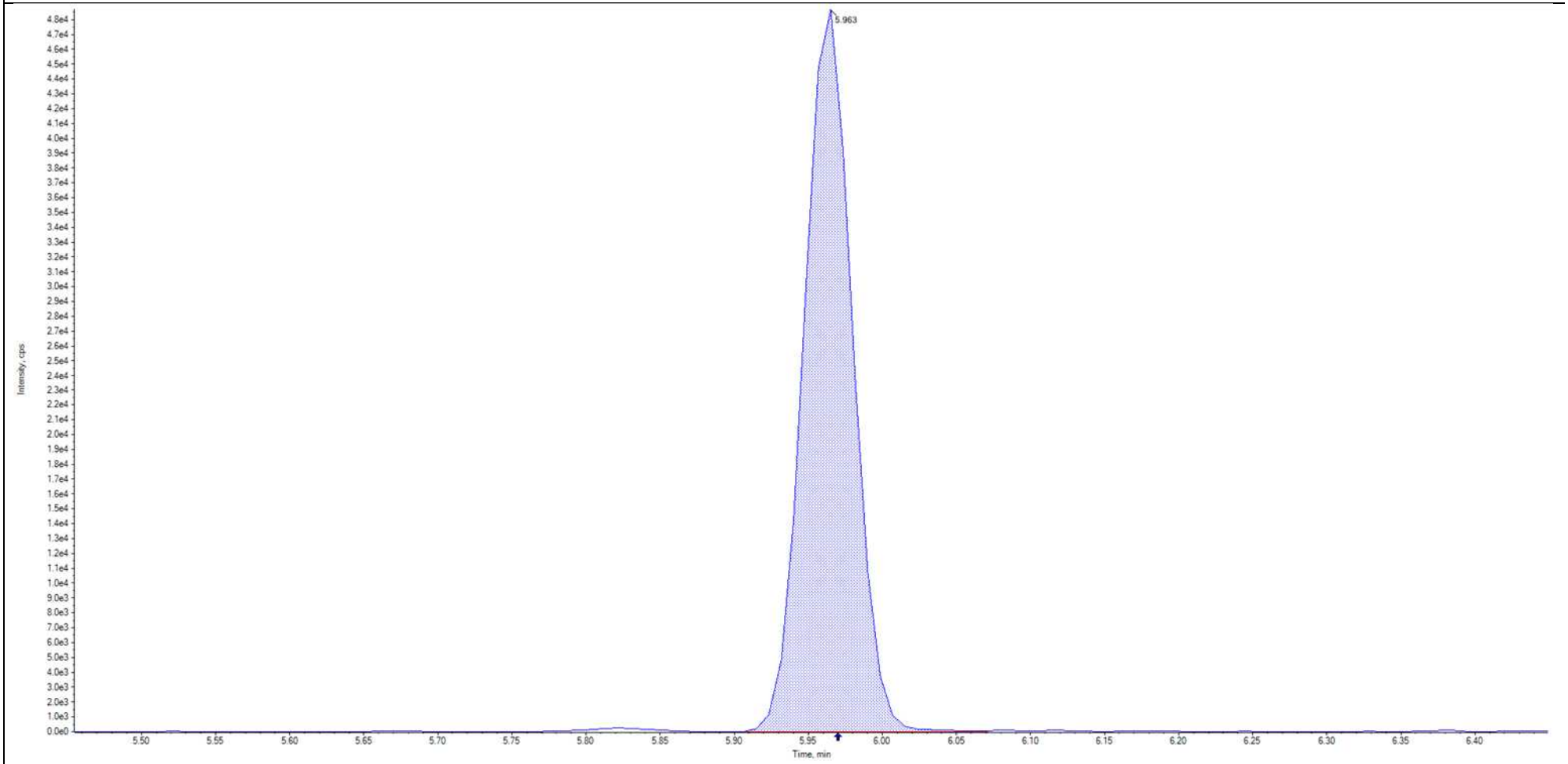
13C2-8:2FTS
Sample: WG2035972-2,INSTBLANK



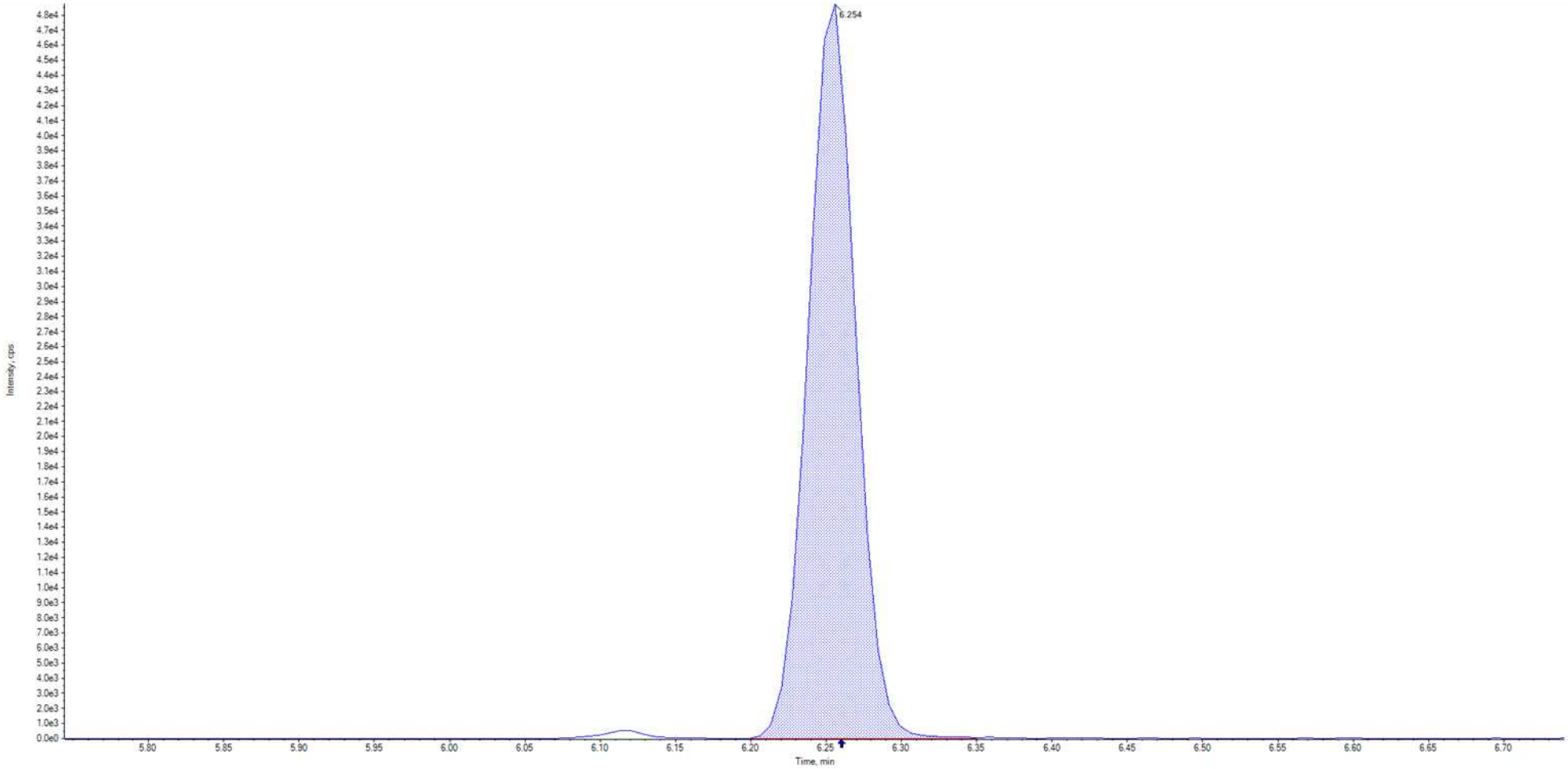
13C8-PFOSA
Sample: WG2035972-2,INSTBLANK



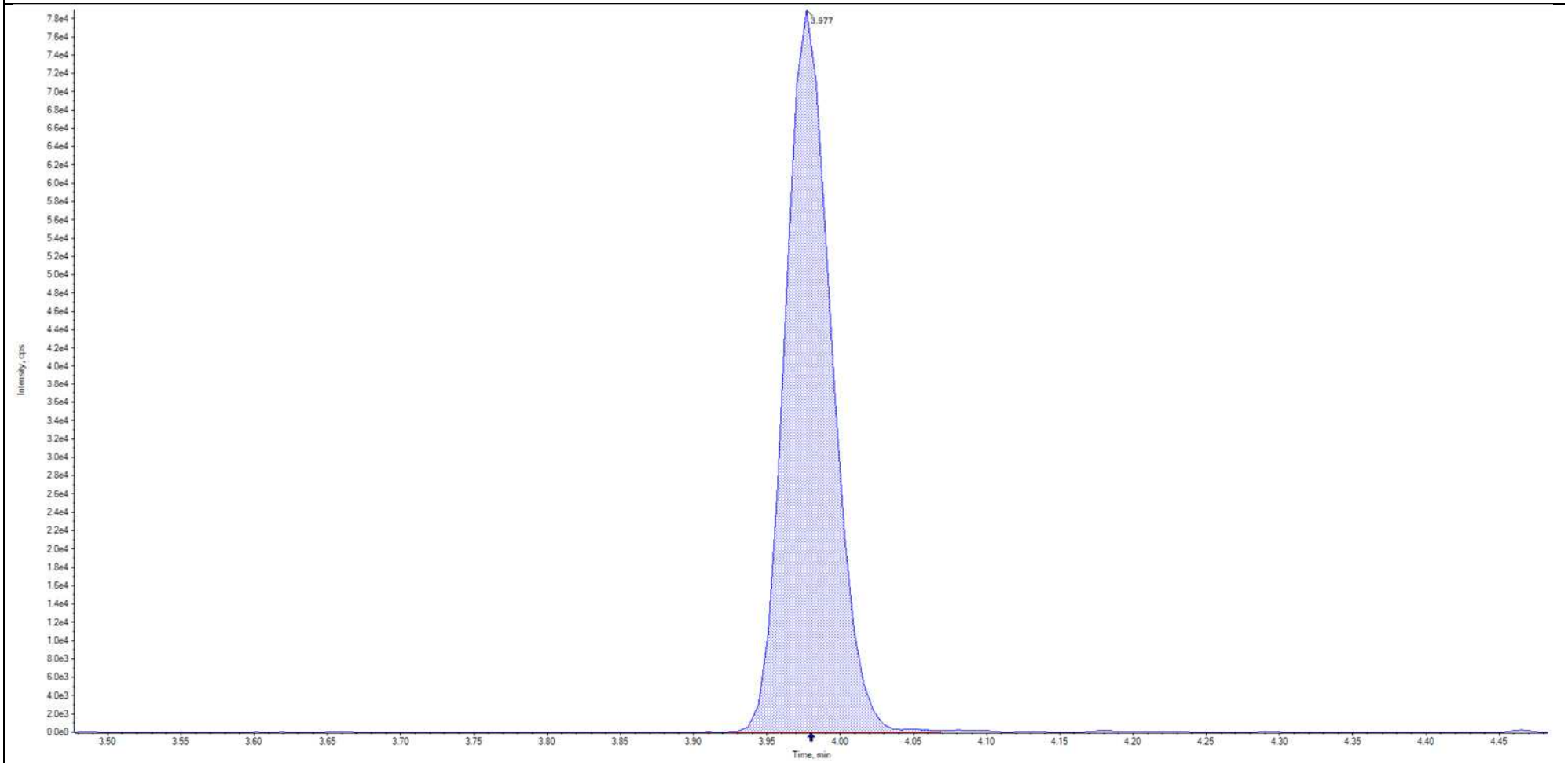
d3-NMeFOSA
Sample: WG2035972-2,INSTBLANK



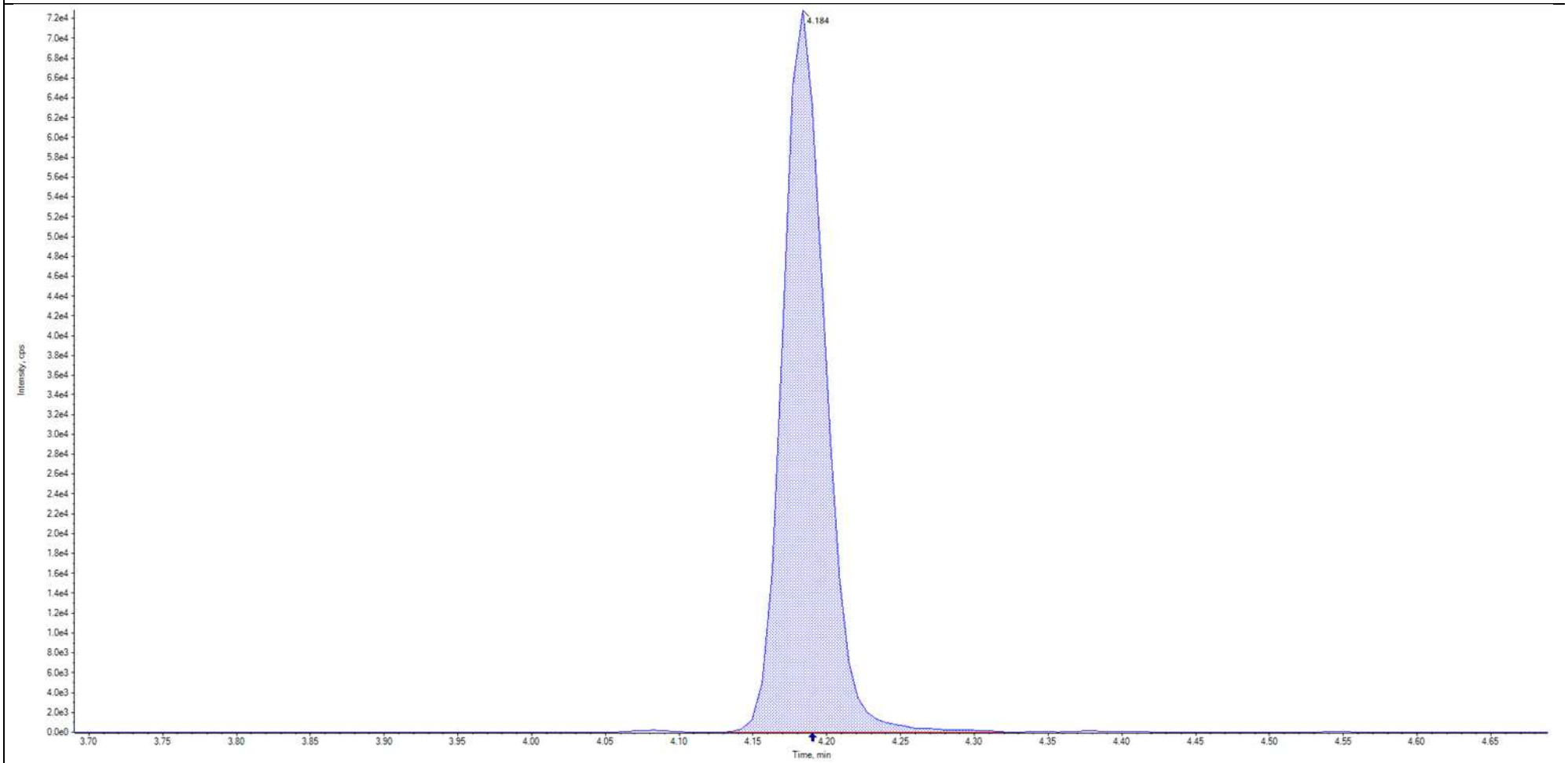
d5-NEtFOSA
Sample: WG2035972-2,INSTBLANK



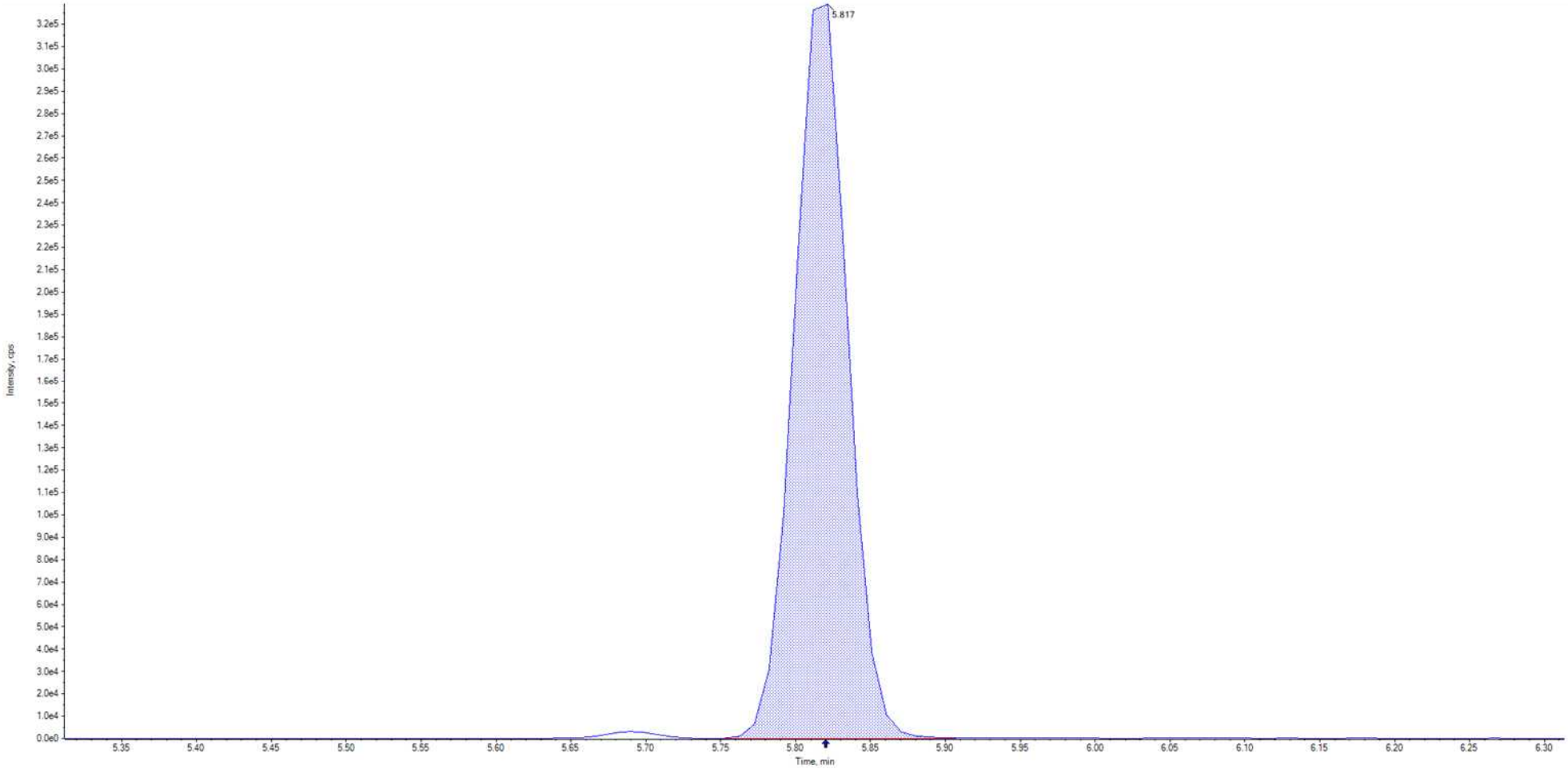
d3-NMeFOSAA
Sample: WG2035972-2,INSTBLANK



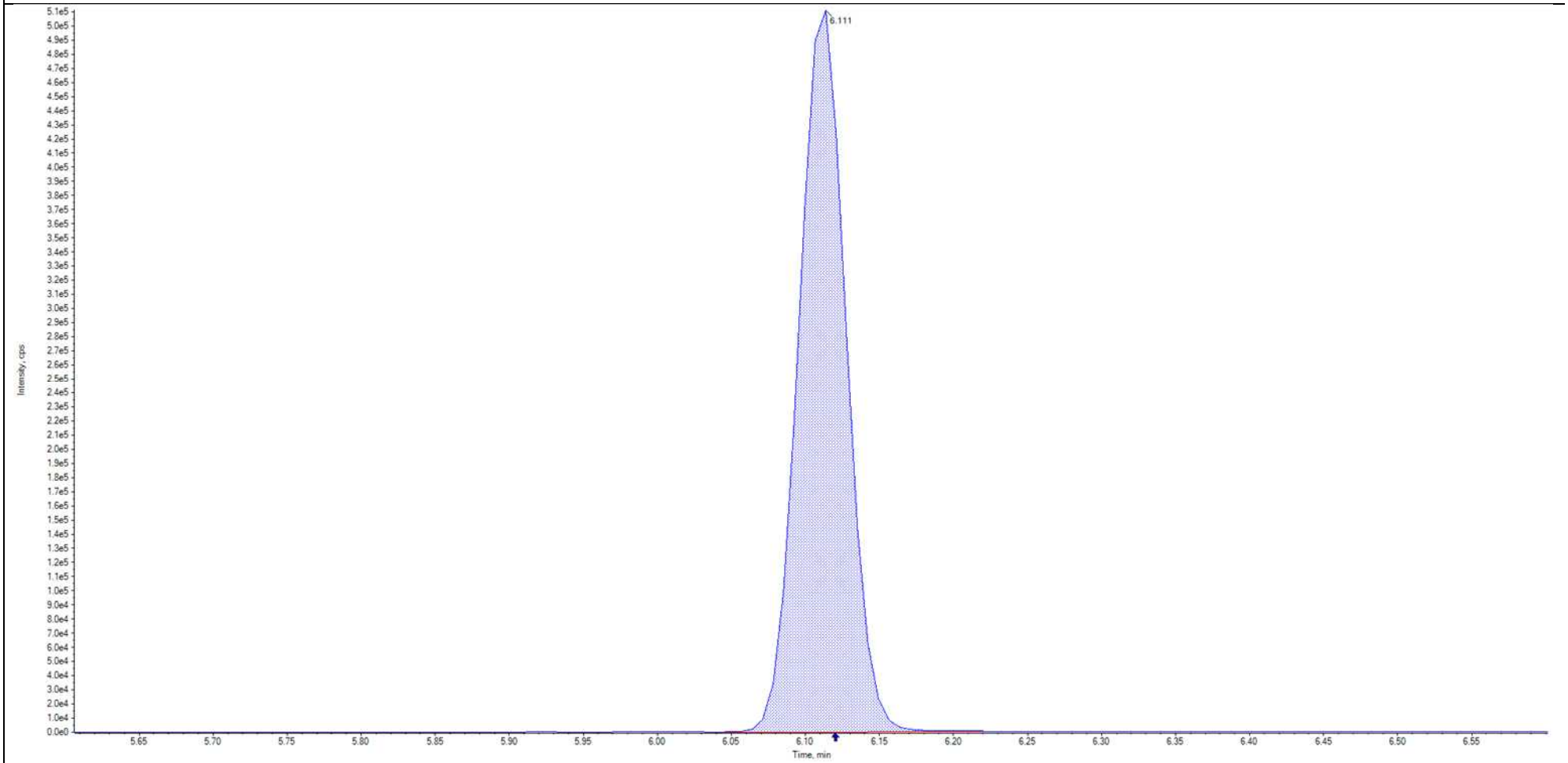
d5-NEtFOSAA
Sample: WG2035972-2,INSTBLANK



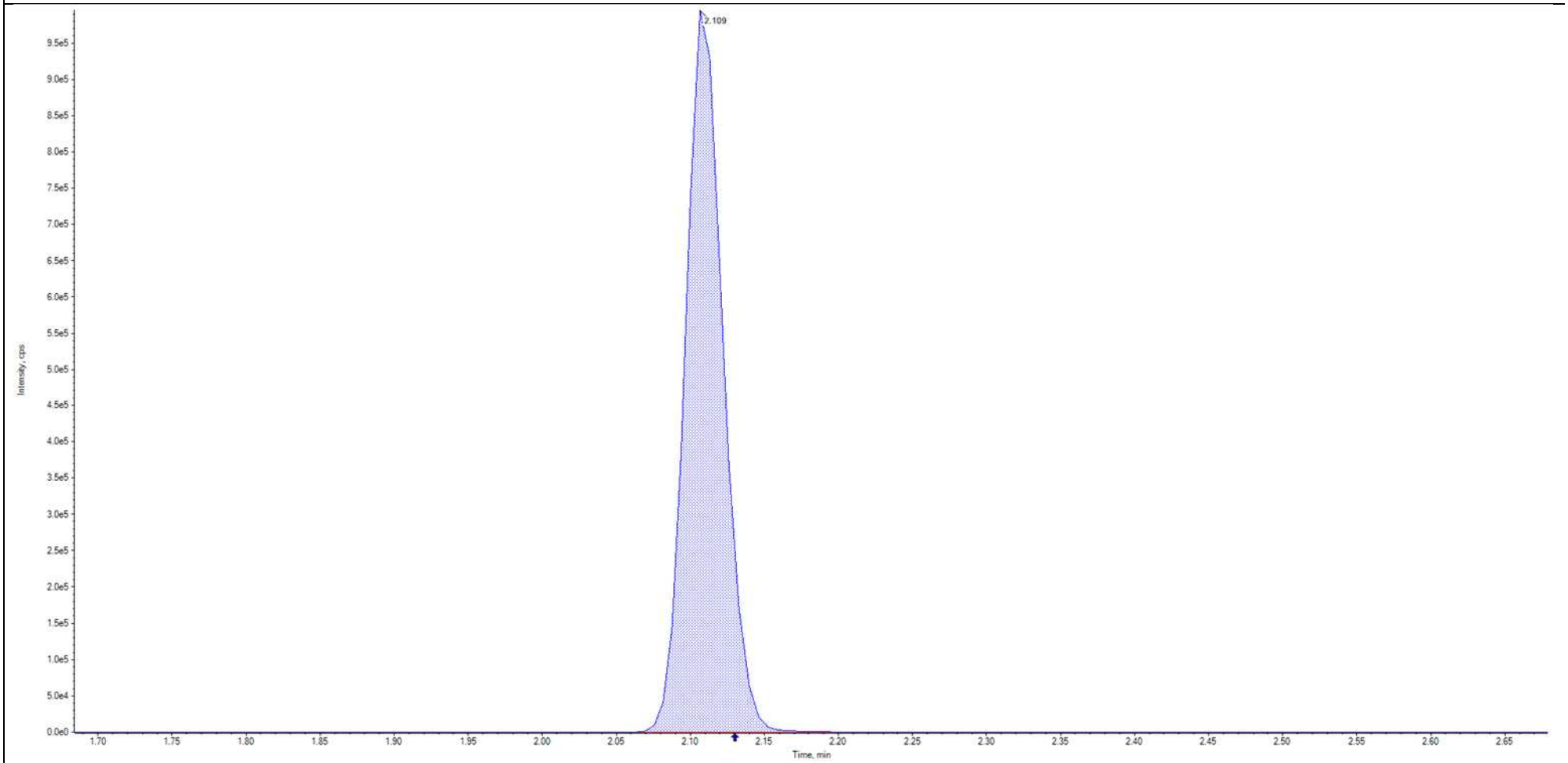
d7-NMeFOSE
Sample: WG2035972-2,INSTBLANK



d9-NEtFOSE
Sample: WG2035972-2,INSTBLANK

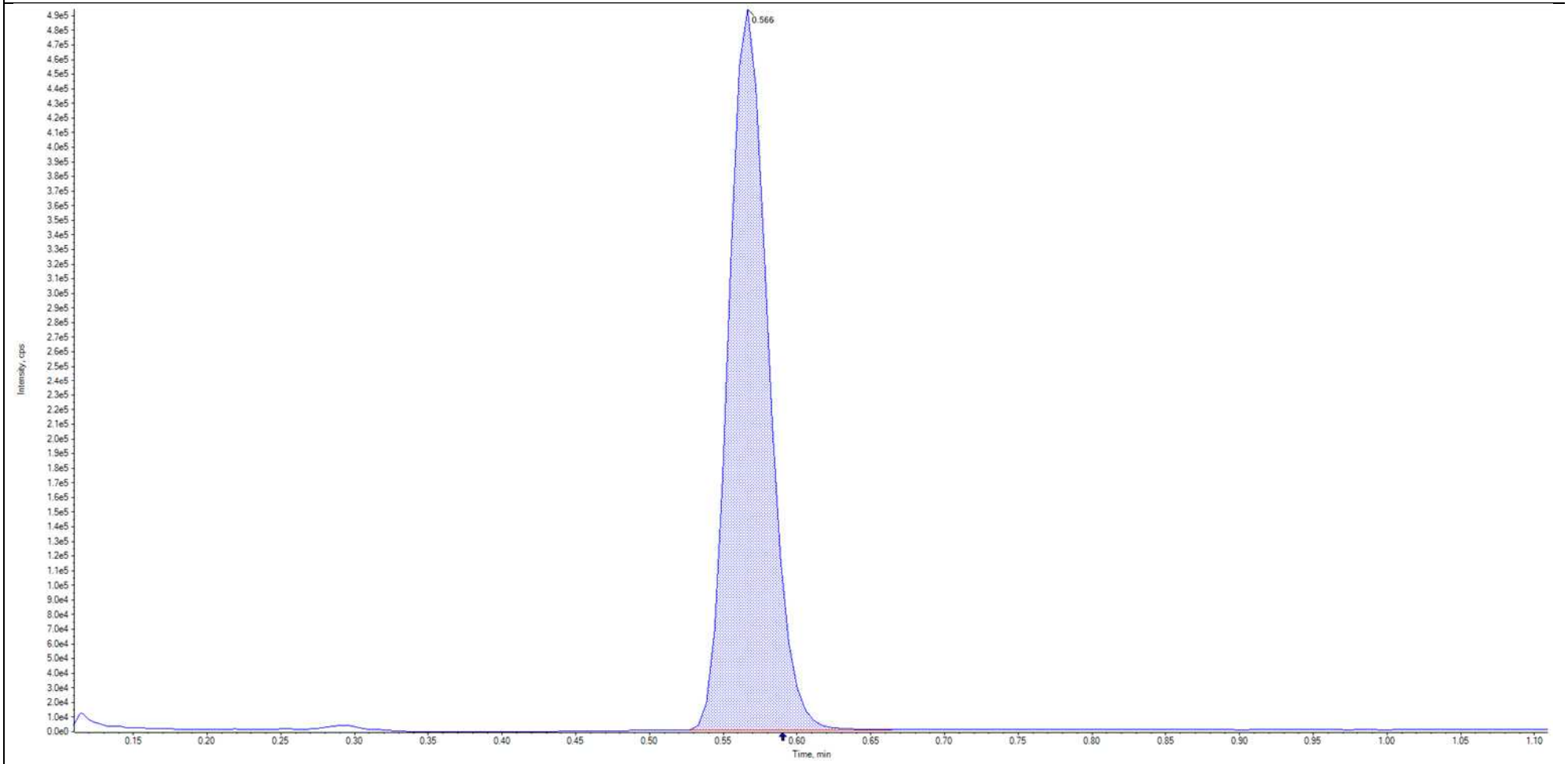


13C3-HFPO-DA
Sample: WG2035972-2,INSTBLANK

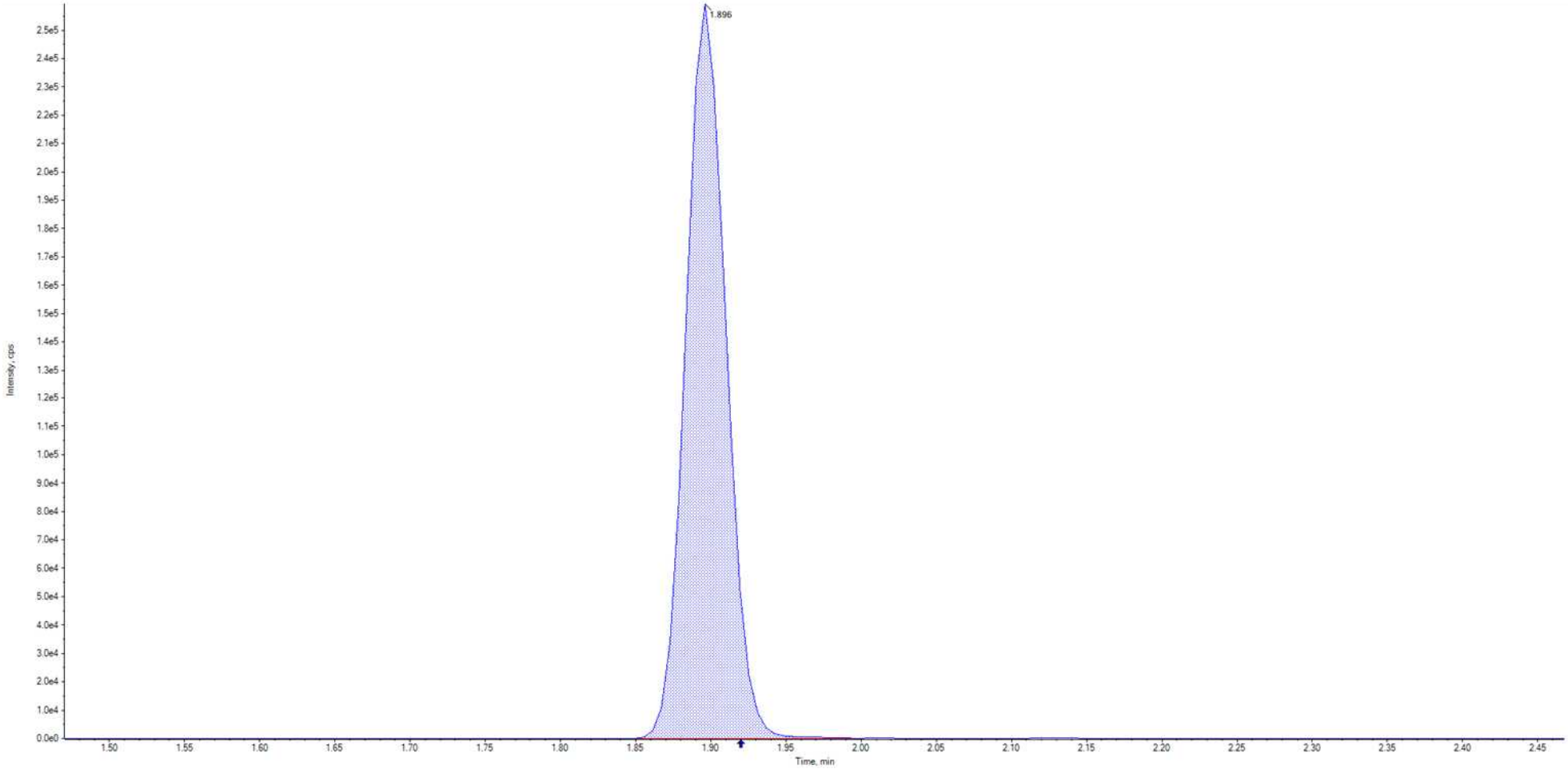


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_31.wiff2_1
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Generated: 3/4/2025 5:58:35 AM

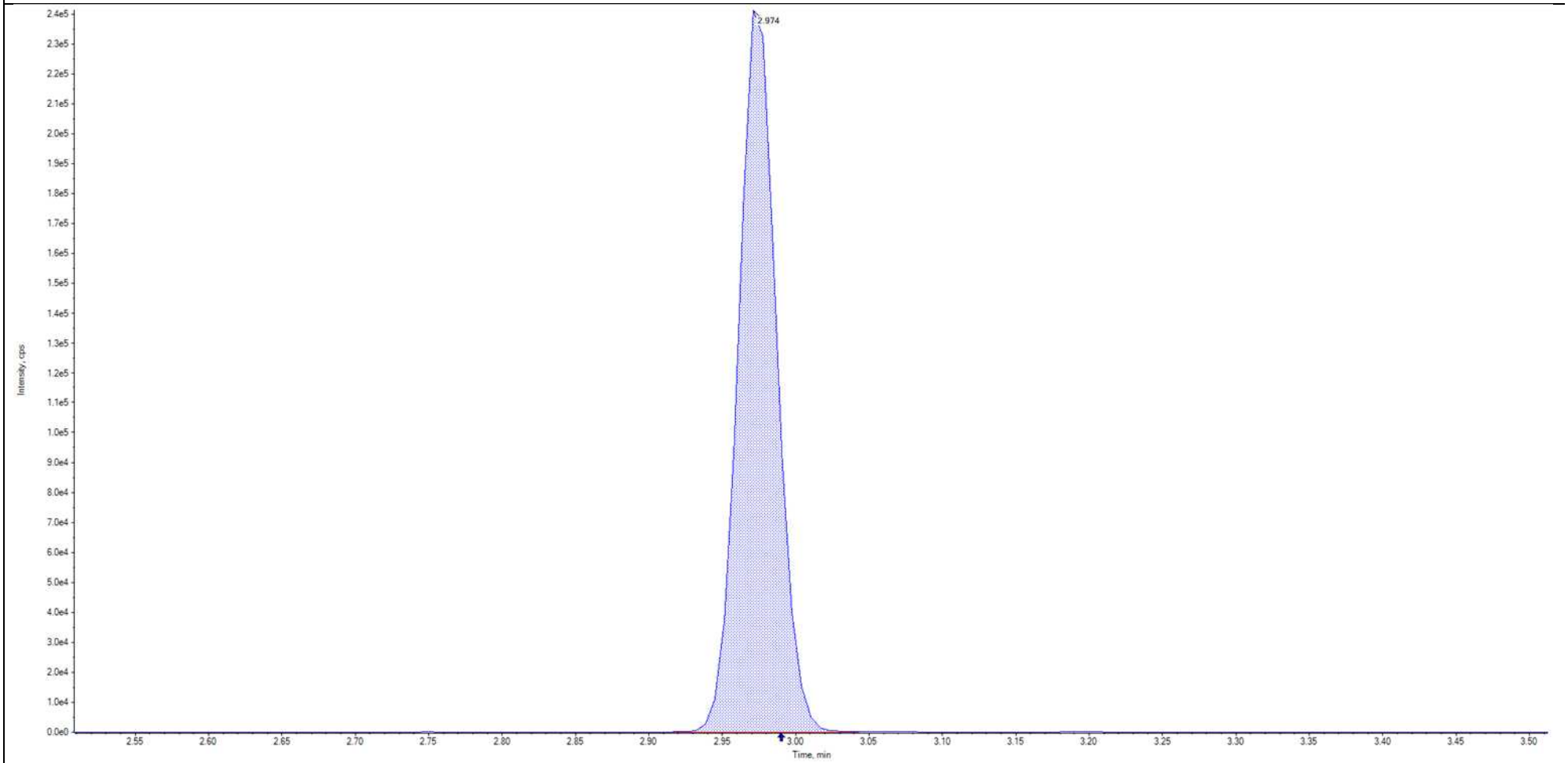
13C3-PFBA
Sample: WG2035972-2,INSTBLANK



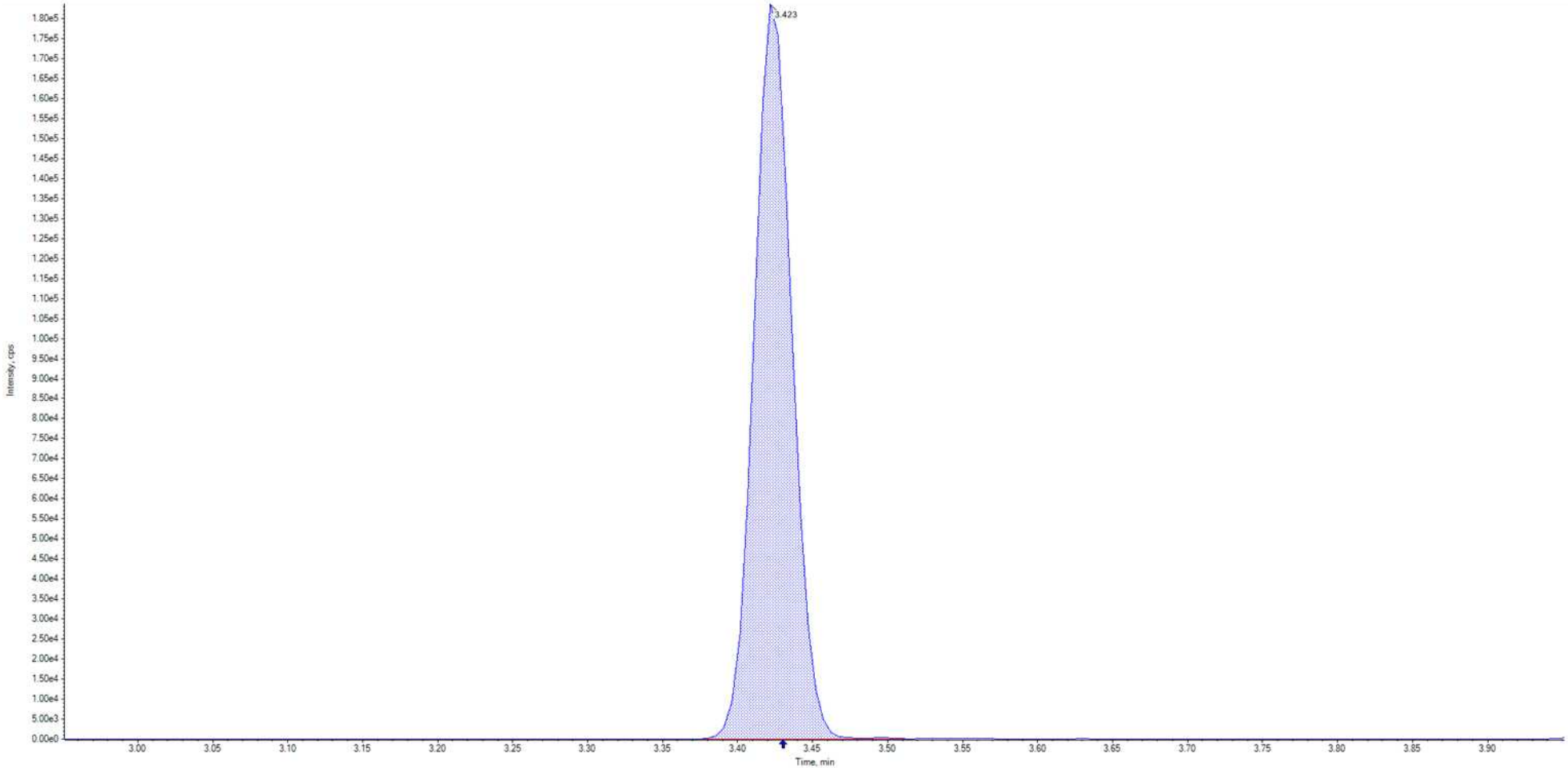
13C2-PFHxA
Sample: WG2035972-2,INSTBLANK



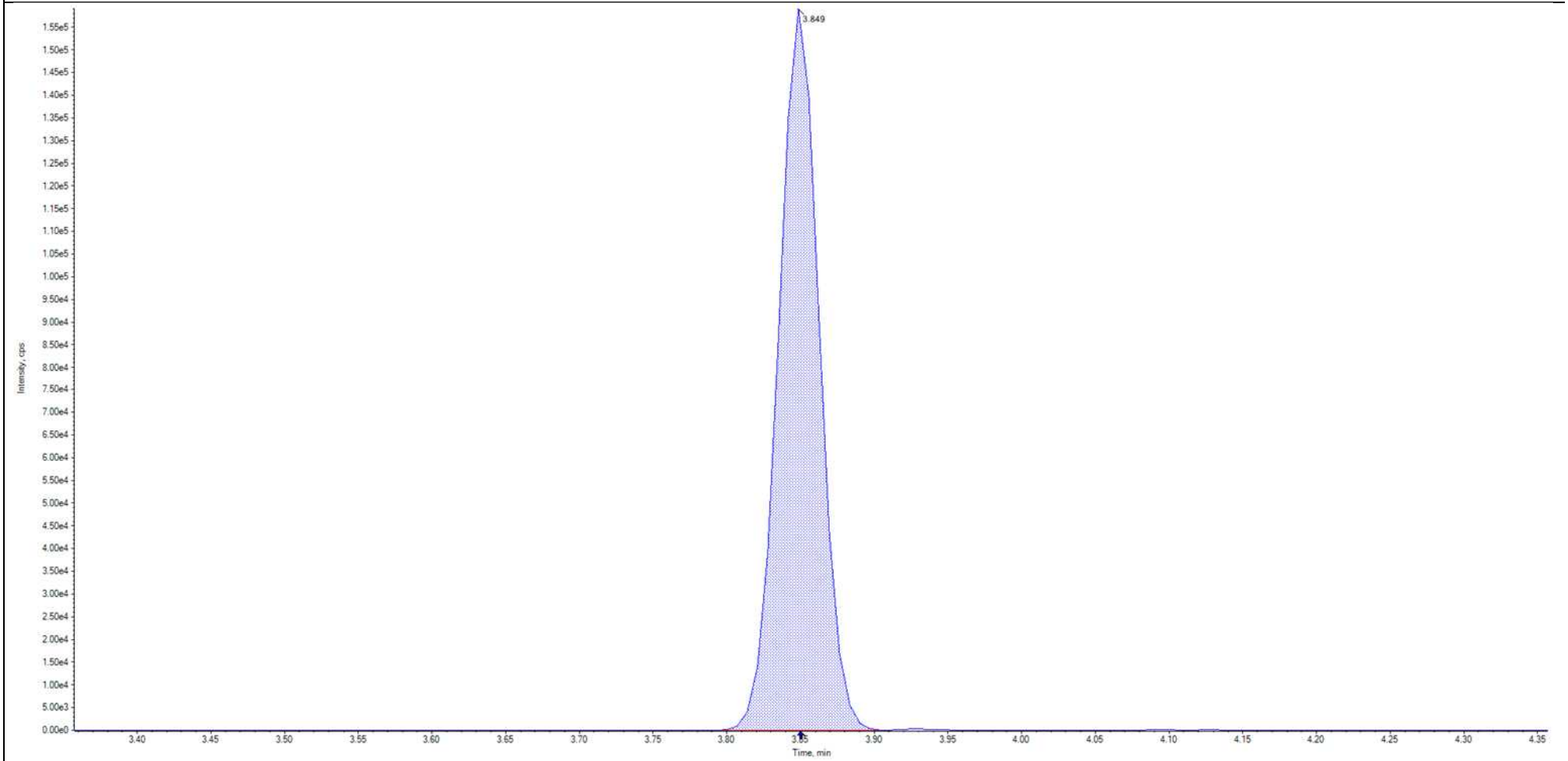
13C4-PFOA
Sample: WG2035972-2,INSTBLANK



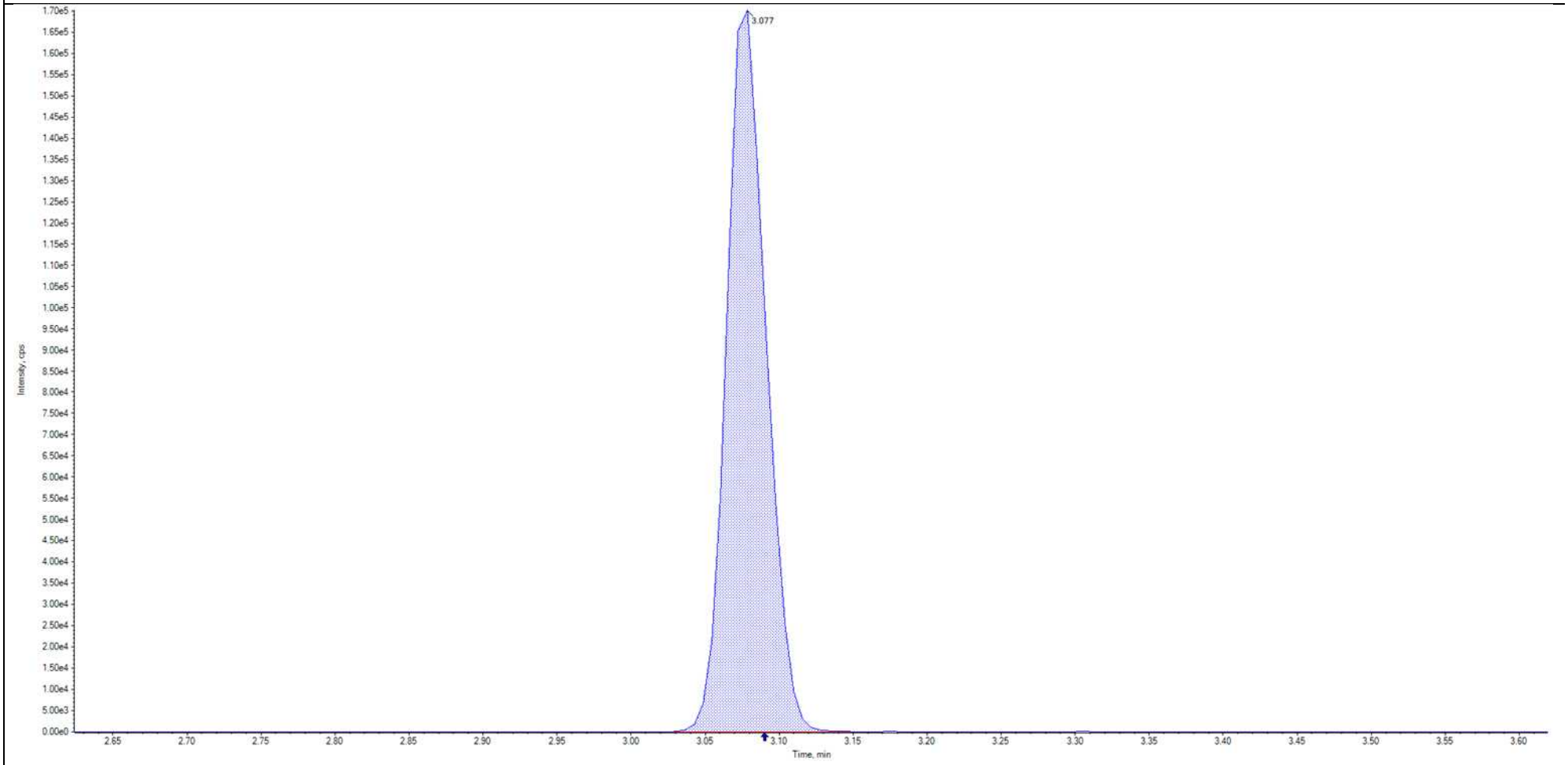
13C5-PFNA
Sample: WG2035972-2,INSTBLANK



13C2-PFDA
Sample: WG2035972-2,INSTBLANK

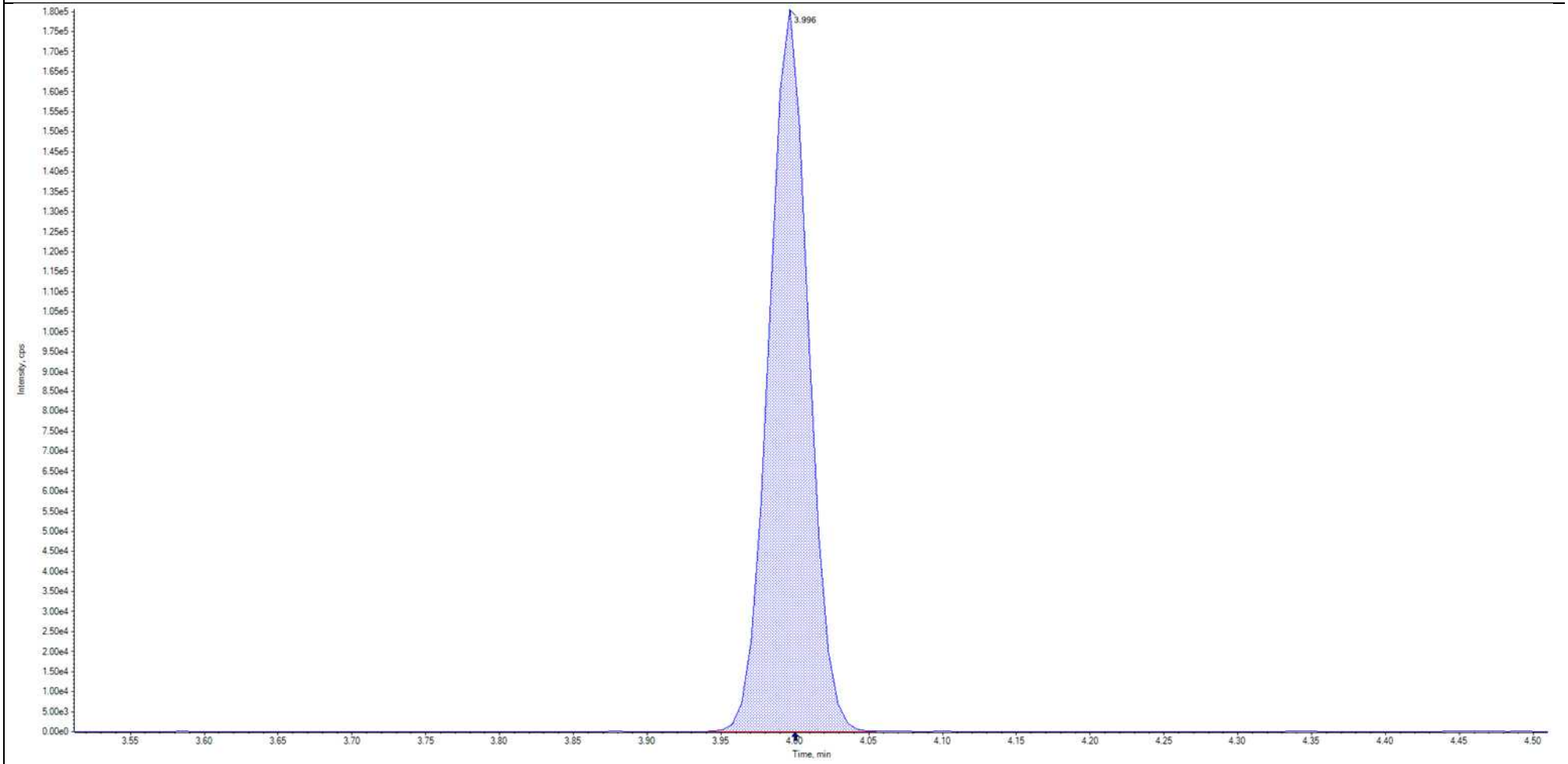


18O2-PFHxS
Sample: WG2035972-2,INSTBLANK



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_31.wiff2_1
Last Altered: 3/4/2025 10:08:00 AM
Generated: 3/4/2025 5:58:35 AM

13C4-PFOS
Sample: WG2035972-2,INSTBLANK



Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_31.wiff2_1
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Generated: 3/4/2025 5:58:35 AM

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_4
Last Altered: 3/4/2025 6:39:09 AM
Generated: 3/4/2025 5:58:35 AM

Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

ID: WG2035972-3,BSICS
Name: SCI09_250303_26.wiff2
Date & Time: 2025-03-03T15:17:32
Description: WG2035972,,EPA1633F_250303_CAL_L5
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:JW

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
76	TDCA	RT +/- PFOS	1.34	499.1 / 124.1	1993257		9.851	5.680	5.680	Pass	98.5
77	TDCA_2	RT +/- PFOS	1.34	499.1 / 79.9	11320857		9.931	5.680	5.680	Pass	99.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.60	217.0 / 172.0	1893182		9.925	NA	NA	NA	99.2
	13C5-PFPeA	EIS	1.18	268.0 / 223.0	815409		4.751	NA	NA	NA	95.0

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C5-PFHxA	EIS	1.92	318.0 / 273.0	373194		2.313	NA	NA	NA	92.5
13C4-PFHpA	EIS	2.50	367.0 / 322.0	383347		2.463	NA	NA	NA	98.5
13C8-PFOA	EIS	2.99	420.8 / 376.0	619864		2.352	NA	NA	NA	94.1
13C9-PFNA	EIS	3.43	472.0 / 427.0	267518		1.165	NA	NA	NA	93.2
13C6-PFDA	EIS	3.85	519.0 / 474.0	303509		1.169	NA	NA	NA	93.6
13C7-PFUnA	EIS	4.26	570.0 / 525.0	344649		1.203	NA	NA	NA	96.3
13C2-PFDoA	EIS	4.65	615.1 / 570.0	339869		1.180	NA	NA	NA	94.4

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFTeDA	EIS	5.40	715.1 / 670.1	227851		1.219	NA	NA	NA	97.6
	13C3-PFBS	EIS	1.92	302.1 / 80.1	383340		2.189	NA	NA	NA	94.0
	13C3-PFHxS	EIS	3.09	402.1 / 80.1	341511		2.194	NA	NA	NA	92.6
	13C8-PFOS	EIS	4.00	507.1 / 80.1	375974		2.474	NA	NA	NA	103.1
	13C2-4:2FTS	EIS	1.72	329.1 / 81.1	106752		4.134	NA	NA	NA	88.1
	13C2-6:2FTS	EIS	2.80	429.2 / 81.1	98255		4.419	NA	NA	NA	92.8
	13C2-8:2FTS	EIS	3.67	529.2 / 81.1	95058		4.558	NA	NA	NA	95.0
	13C8-PFOSA	EIS	5.24	506.1 / 78.1	605958		2.512	NA	NA	NA	100.5

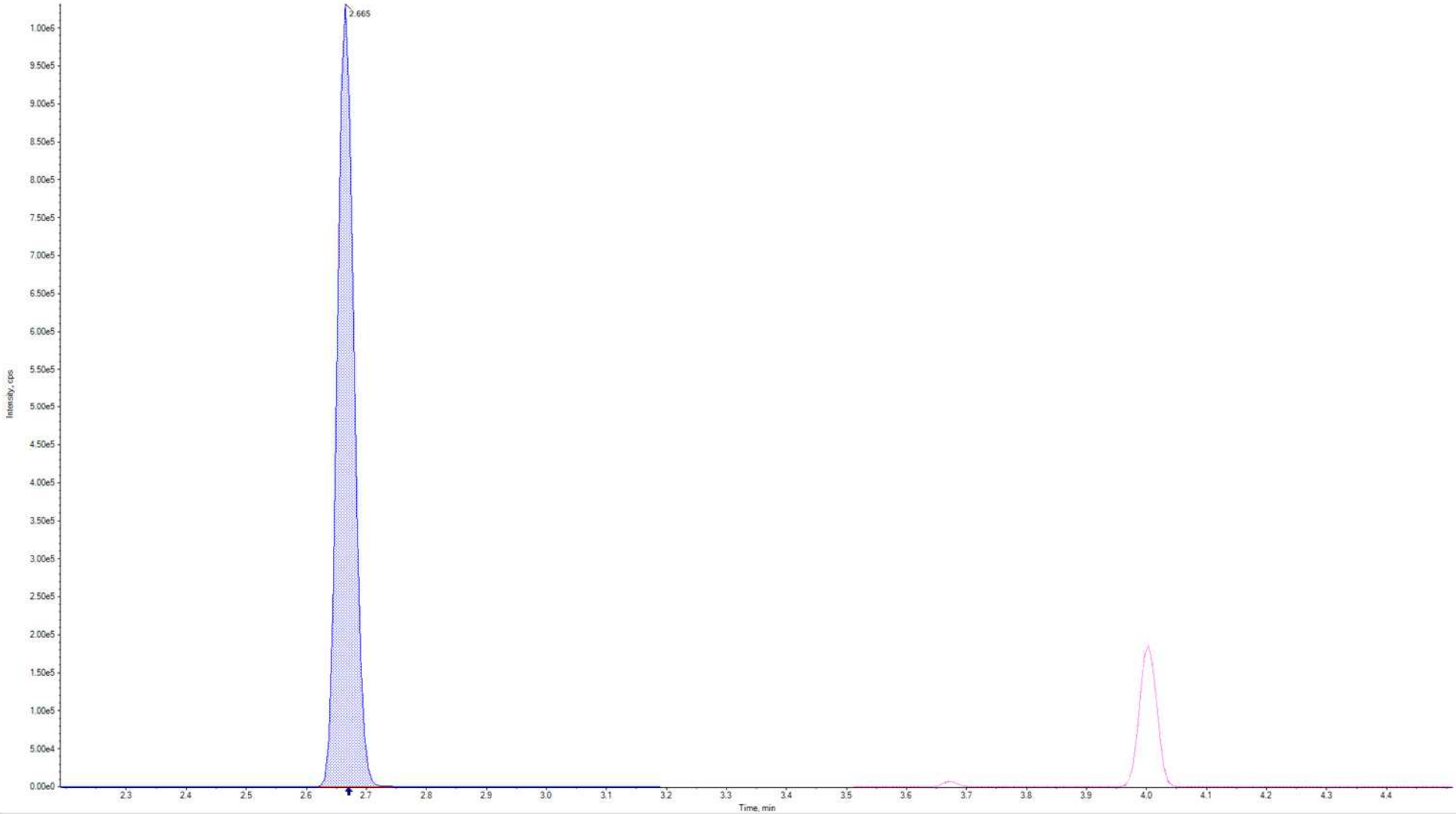
Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
d3-NMeFOSA	EIS	5.97	515.2 / 219.0	112380		2.580	NA	NA	NA	103.2
d5-NEtFOSA	EIS	6.26	531.2 / 219.0	102844		2.596	NA	NA	NA	103.9
d3-NMeFOSAA	EIS	3.98	573.2 / 419.1	173229		5.837	NA	NA	NA	116.7
d5-NEtFOSAA	EIS	4.19	589.3 / 419.1	117302		4.847	NA	NA	NA	96.9
d7-NMeFOSE	EIS	5.82	623.2 / 58.9	811391		25.897	NA	NA	NA	103.6
d9-NEtFOSE	EIS	6.12	639.2 / 58.9	1081459		25.731	NA	NA	NA	102.9
13C3-HFPO-DA	EIS	2.13	287.0 / 169.0	1620896		9.497	NA	NA	NA	95.0

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_4
Last Altered: 3/4/2025 6:39:09 AM
Generated: 3/4/2025 5:58:35 AM

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-PFBA	NIS	0.59	216.0 / 172.0	844058		5.824	NA	NA	NA	116.5
	13C2-PFHxA	NIS	1.92	315.0 / 270.0	475130		2.932	NA	NA	NA	117.3
	13C4-PFOA	NIS	2.99	417.0 / 372.0	400543		2.786	NA	NA	NA	111.4
	13C5-PFNA	NIS	3.43	468.0 / 423.0	287712		1.396	NA	NA	NA	111.7
	13C2-PFDA	NIS	3.85	515.1 / 470.1	302924		1.425	NA	NA	NA	114.0
	18O2-PFHxS	NIS	3.09	403.1 / 84.1	327303		2.780	NA	NA	NA	117.3
	13C4-PFOS	NIS	4.00	503.1 / 80.1	305674		2.543	NA	NA	NA	105.9

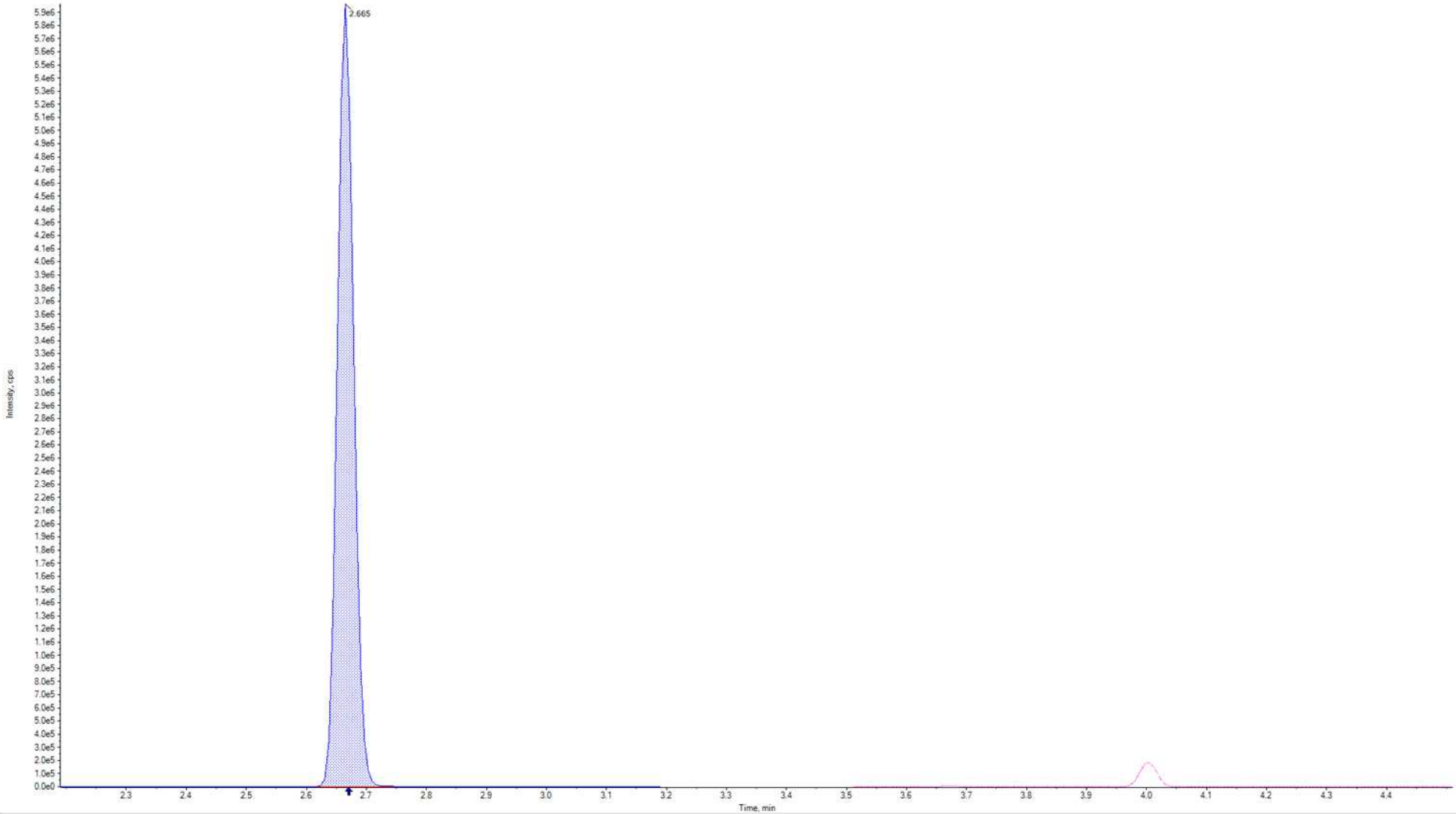
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_4
Last Altered: 3/4/2025 6:39:09 AM
Generated: 3/4/2025 5:58:35 AM

TDCA
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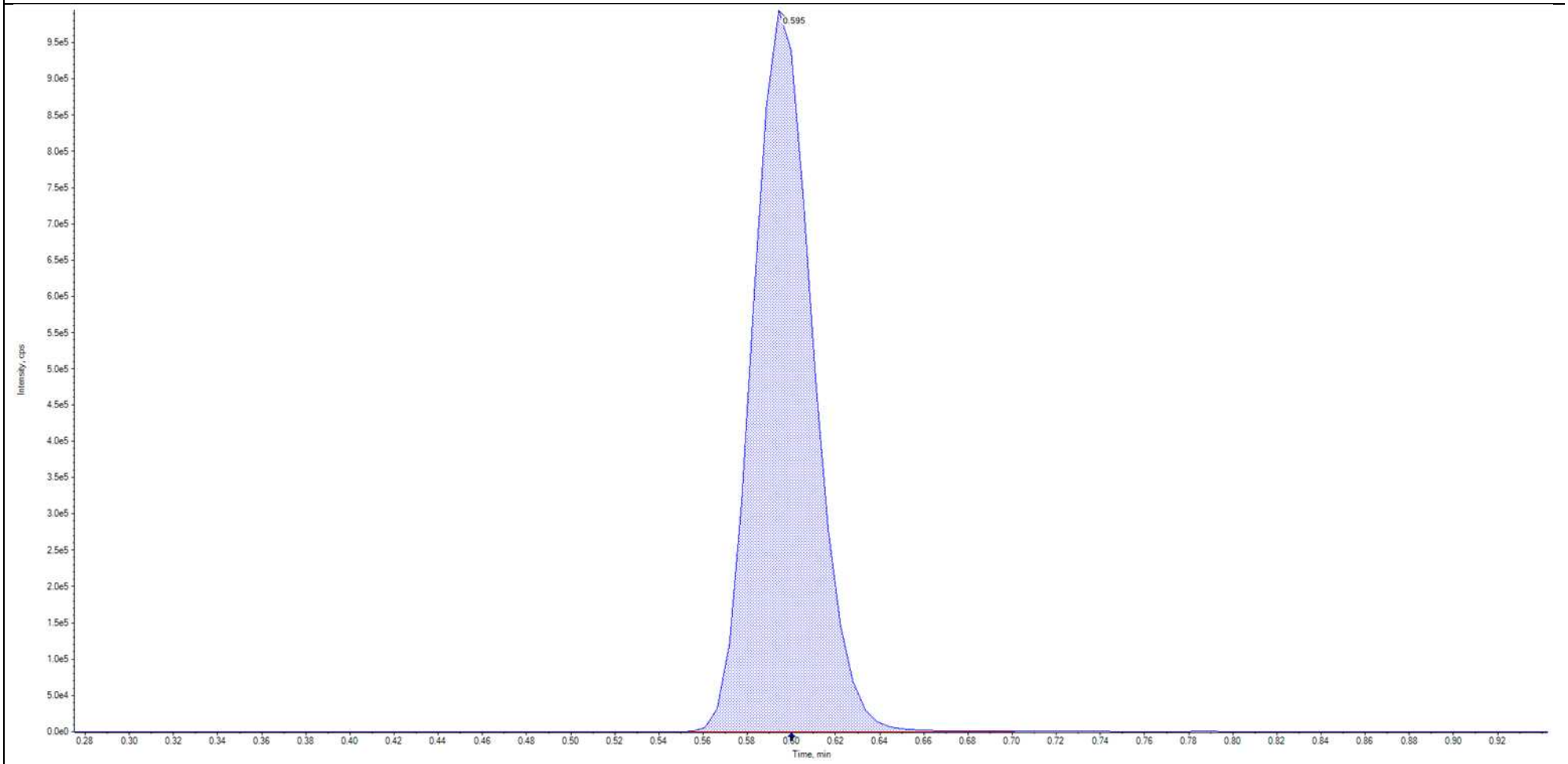
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:39:09 AM
Generated: 3/4/2025 5:58:35 AM

TDCA_2
Sample: WG2035972-3,BSICS S/N:119607.9 Points Across peak:32

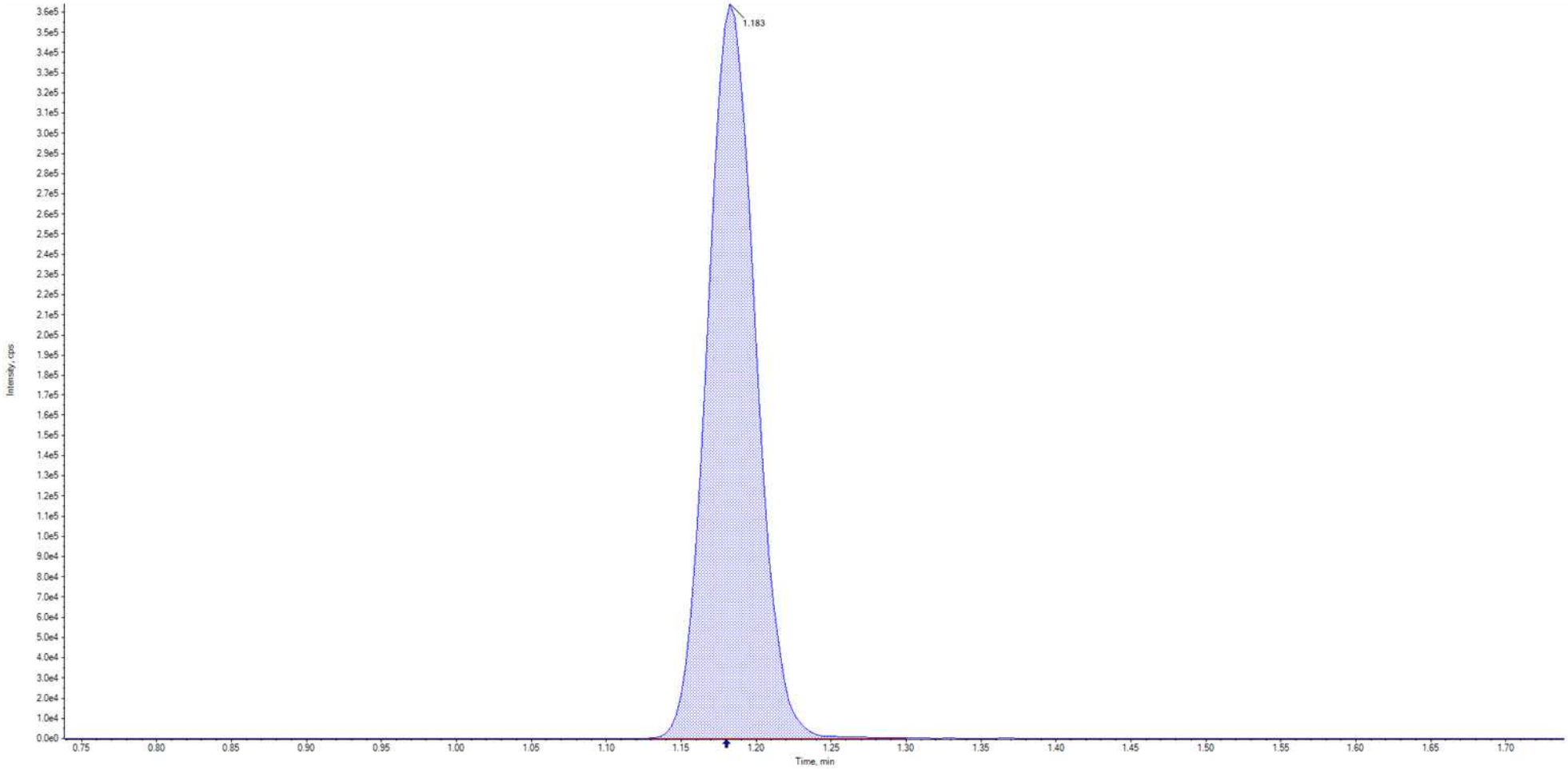


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

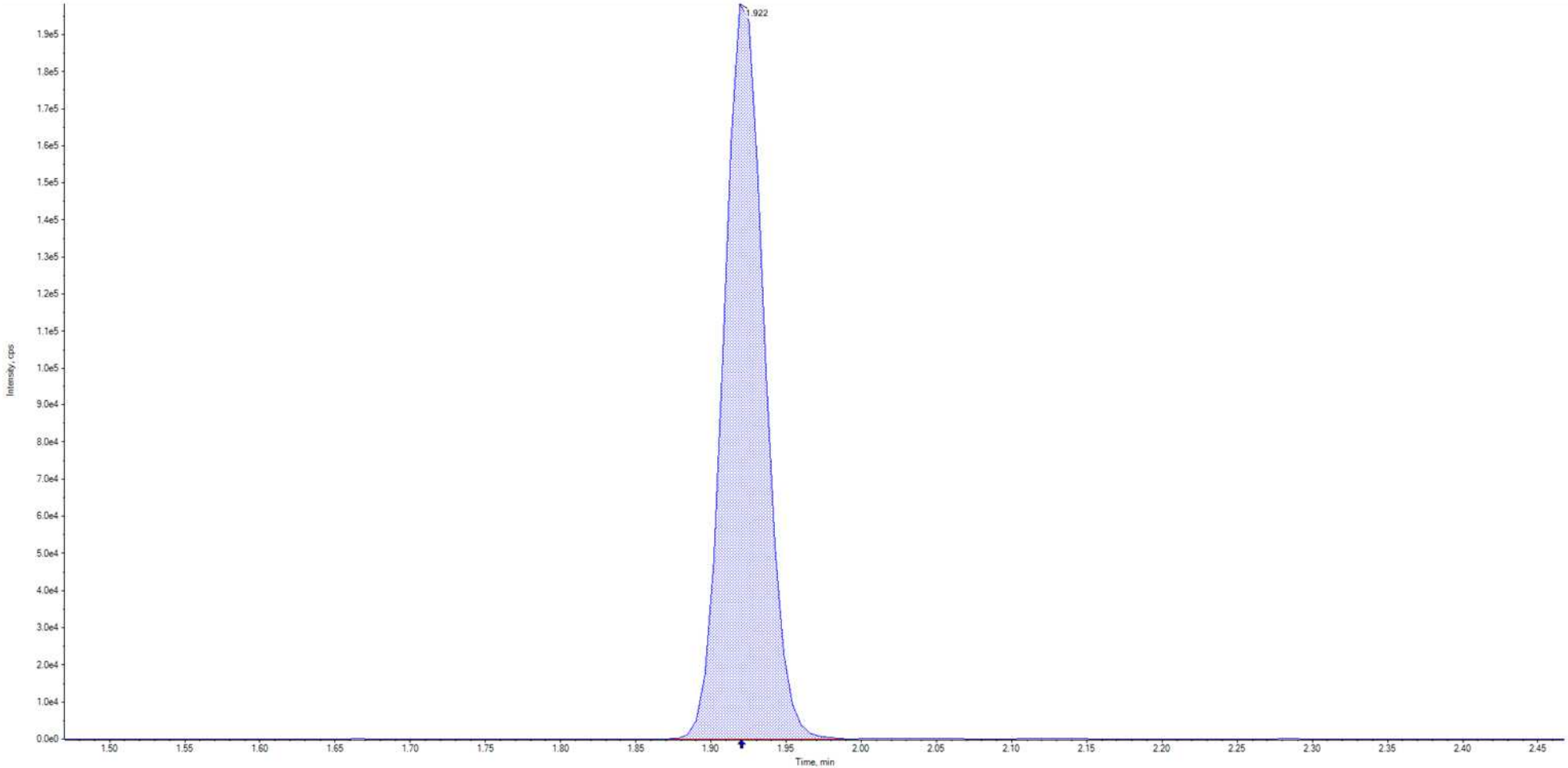
13C4-PFBA
Sample: WG2035972-3,BSICS



13C5-PFPeA
Sample: WG2035972-3,BSICS

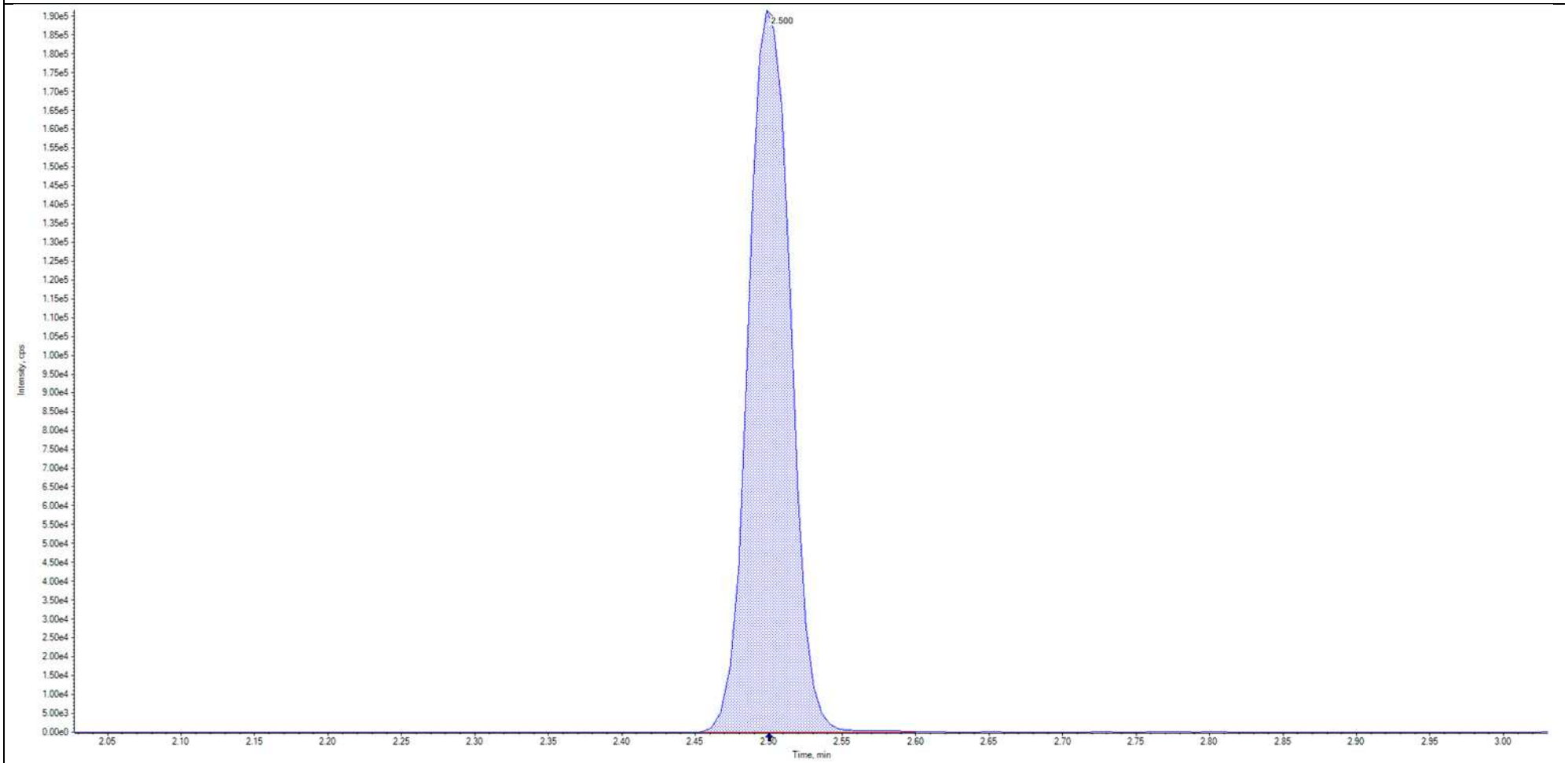


13C5-PFHxA
Sample: WG2035972-3,BSICS

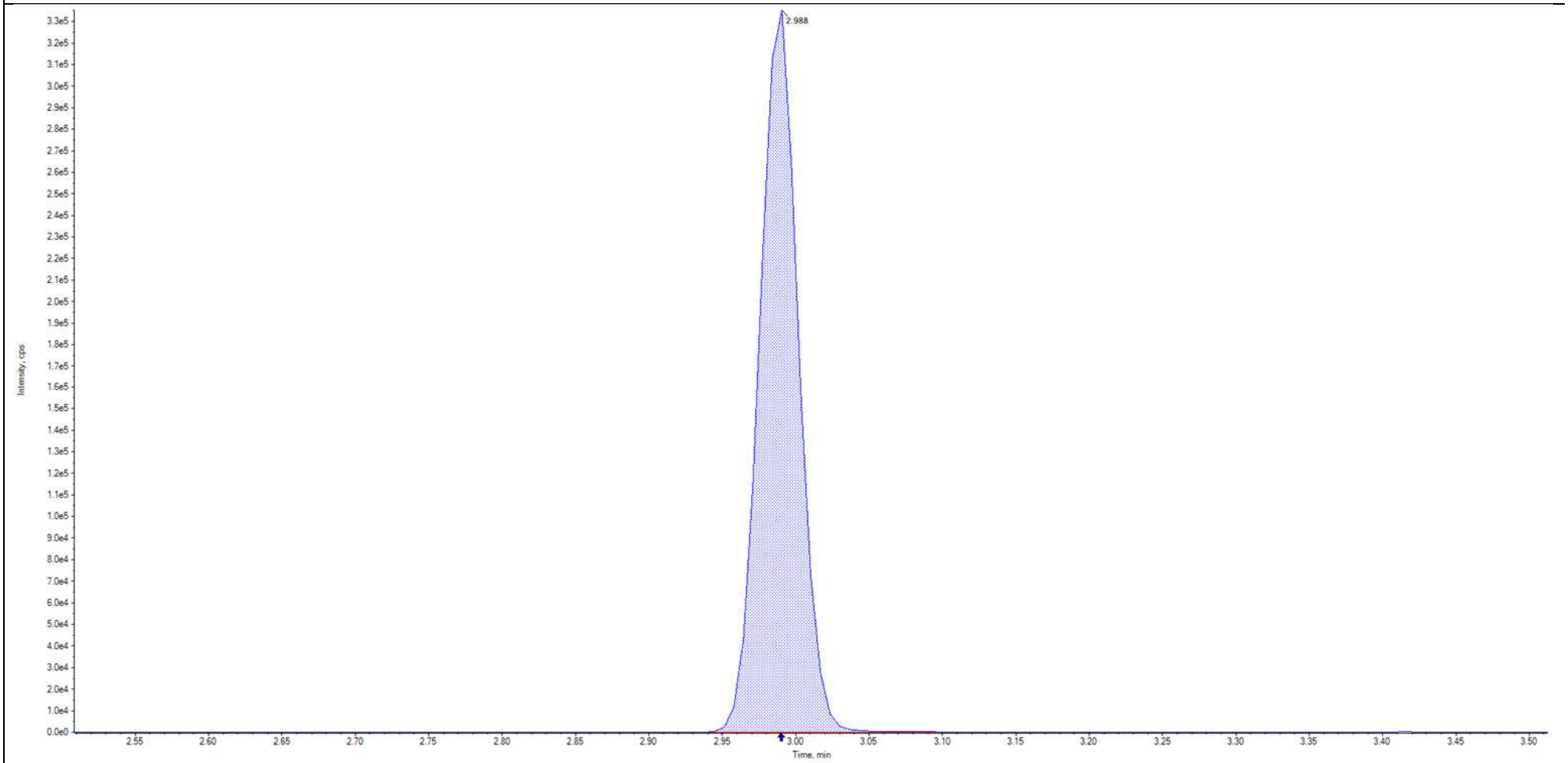


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:39:09 AM
Generated: 3/4/2025 5:58:35 AM

13C4-PFHpA
Sample: WG2035972-3,BSICS

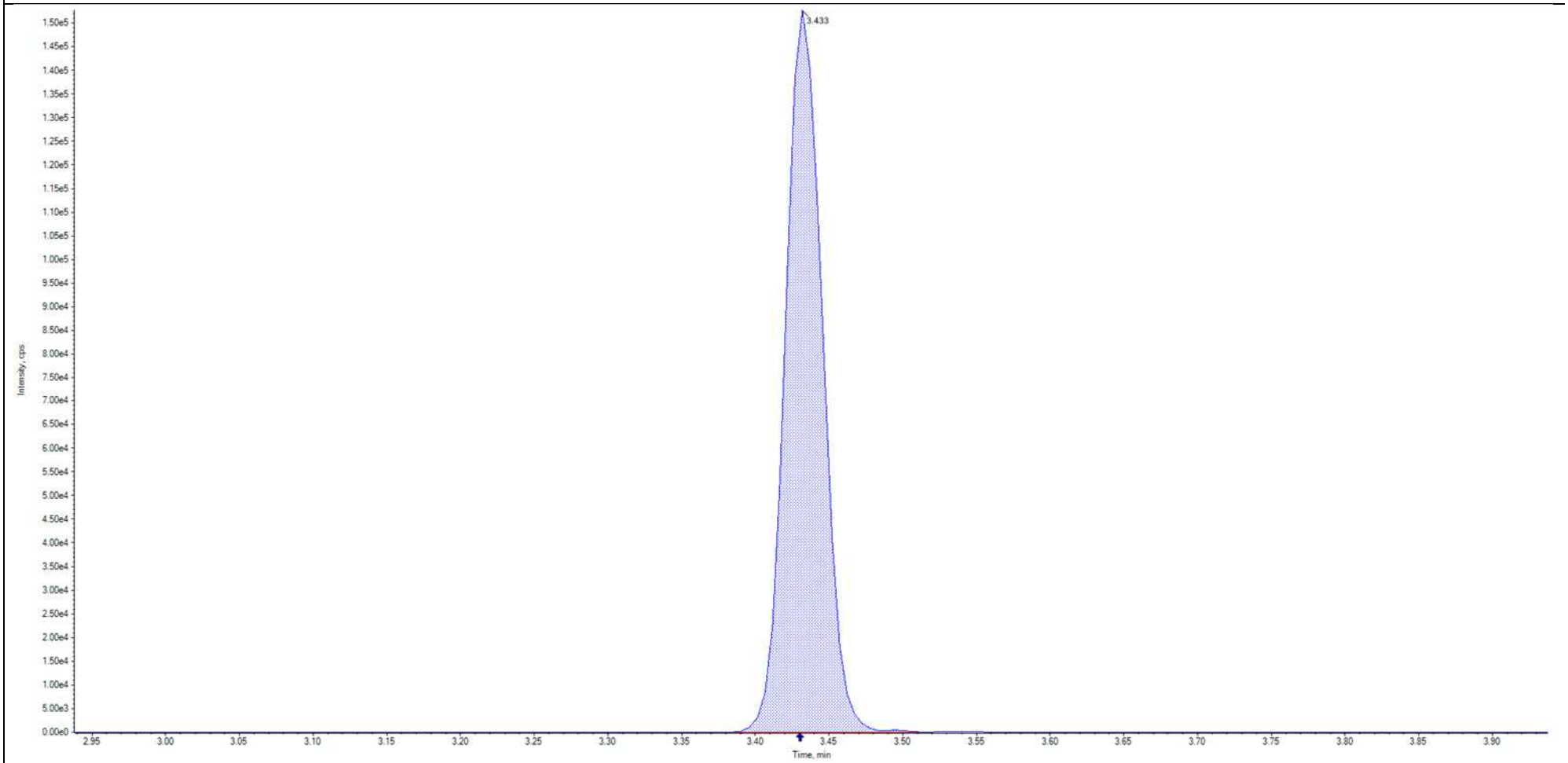


13C8-PFOA
Sample: WG2035972-3,BSICS

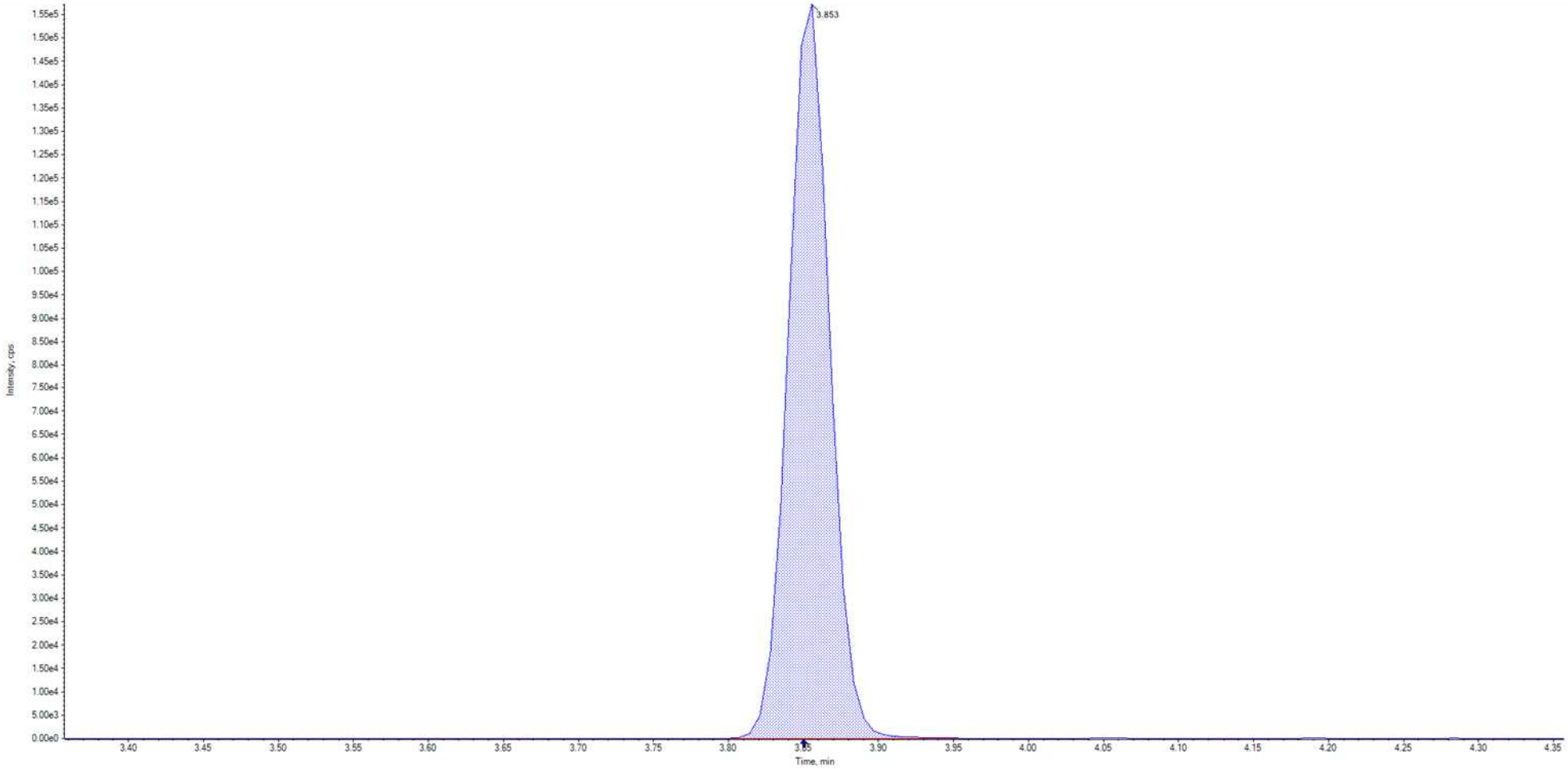


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/4/2025 6:39:09 AM
Generated: 3/4/2025 5:58:35 AM

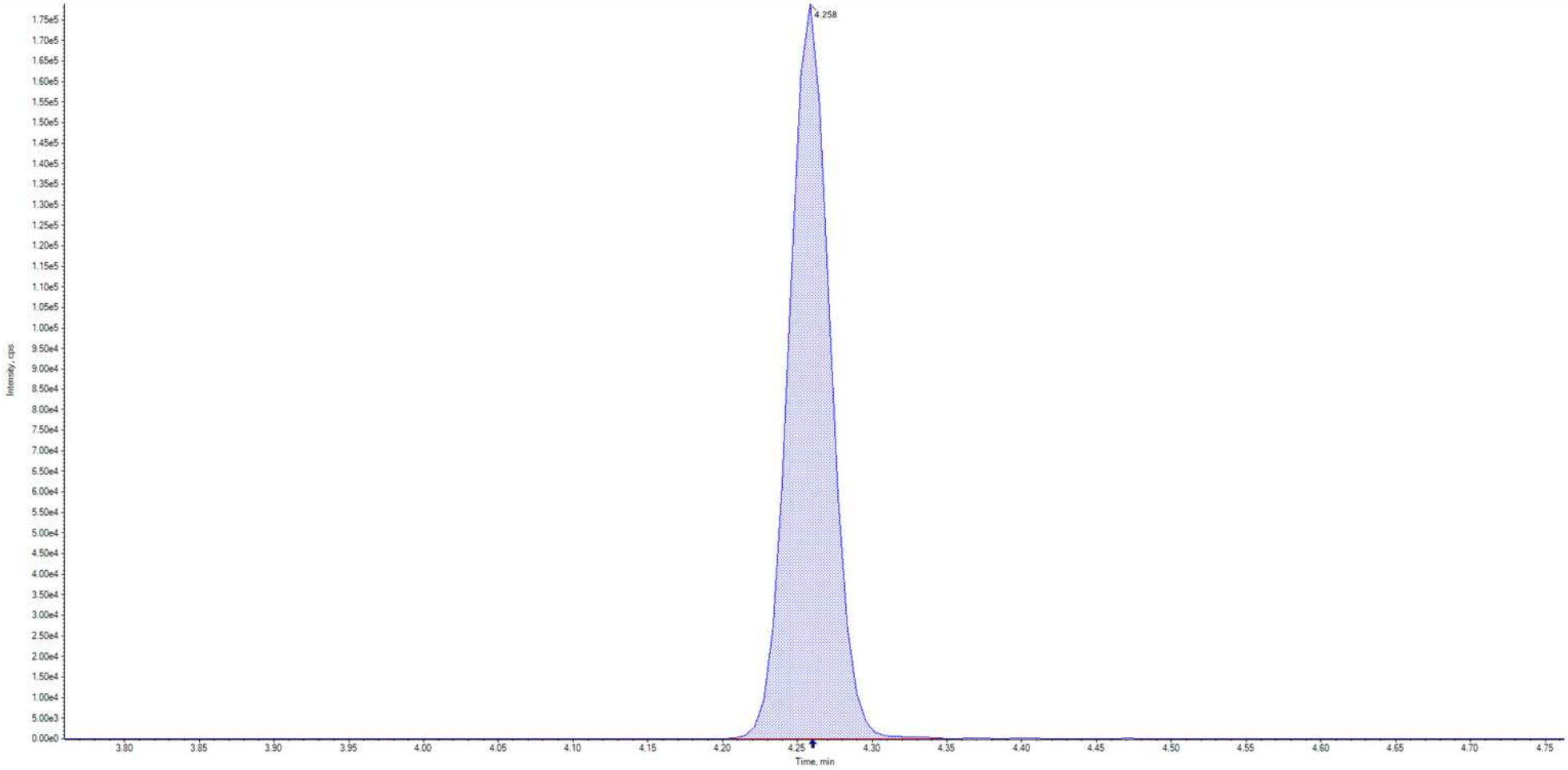
13C9-PFNA
Sample: WG2035972-3,BSICS



13C6-PFDA
Sample: WG2035972-3,BSICS

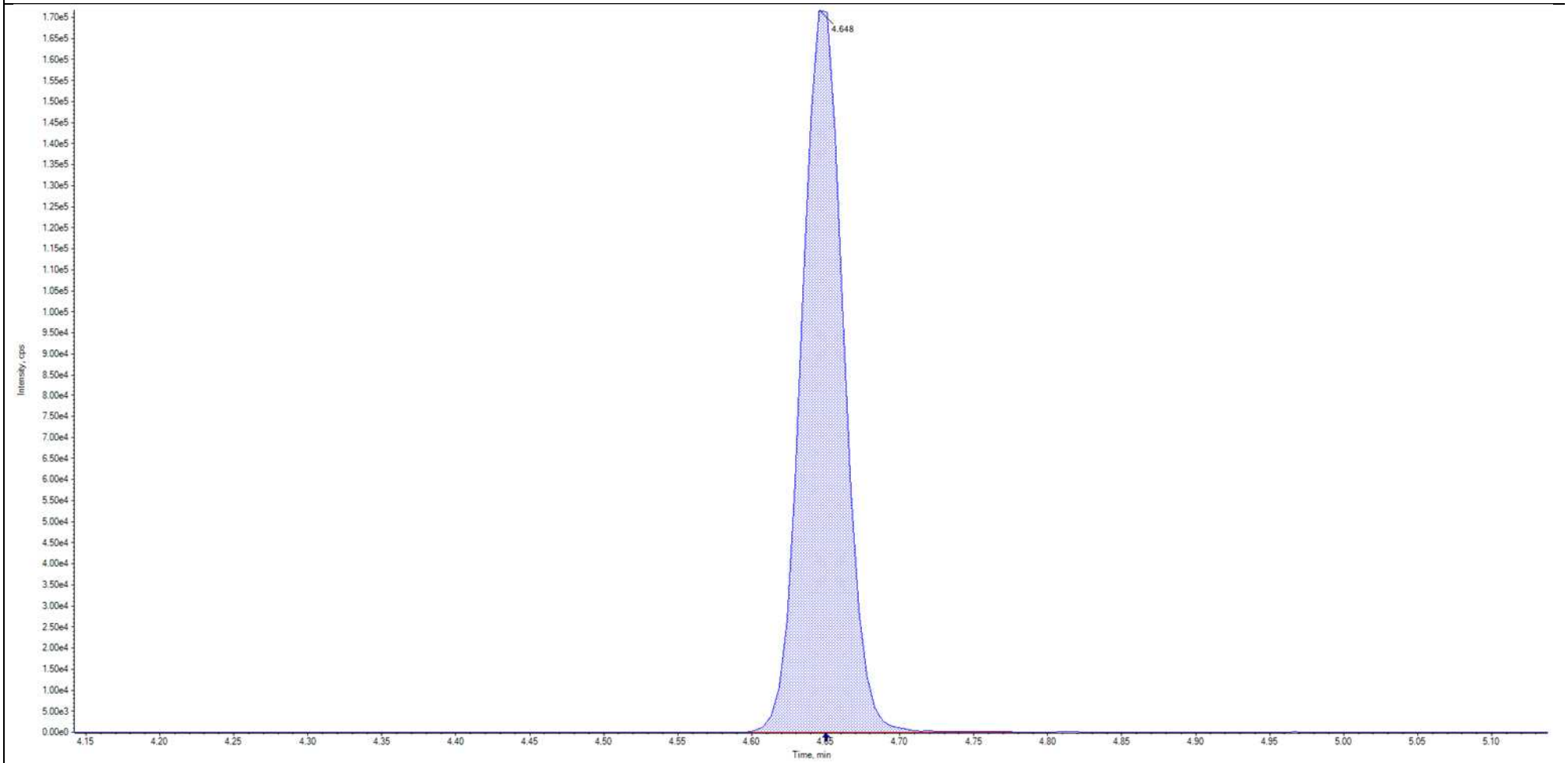


13C7-PFUnA
Sample: WG2035972-3,BSICS

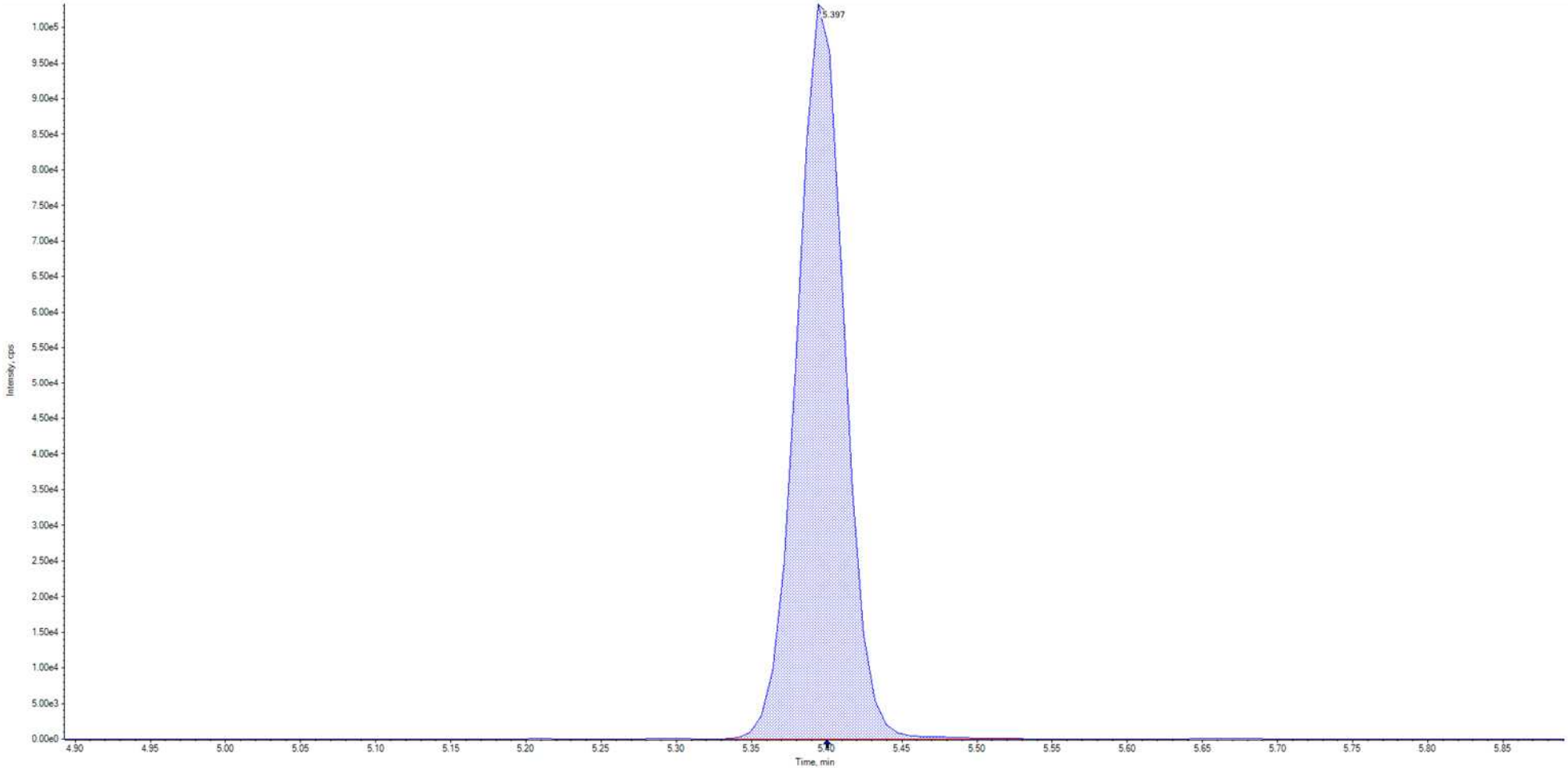


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250303\SCI09_250303_26.wiff2_4
Last Altered: 3/4/2025 6:39:09 AM
Generated: 3/4/2025 5:58:35 AM

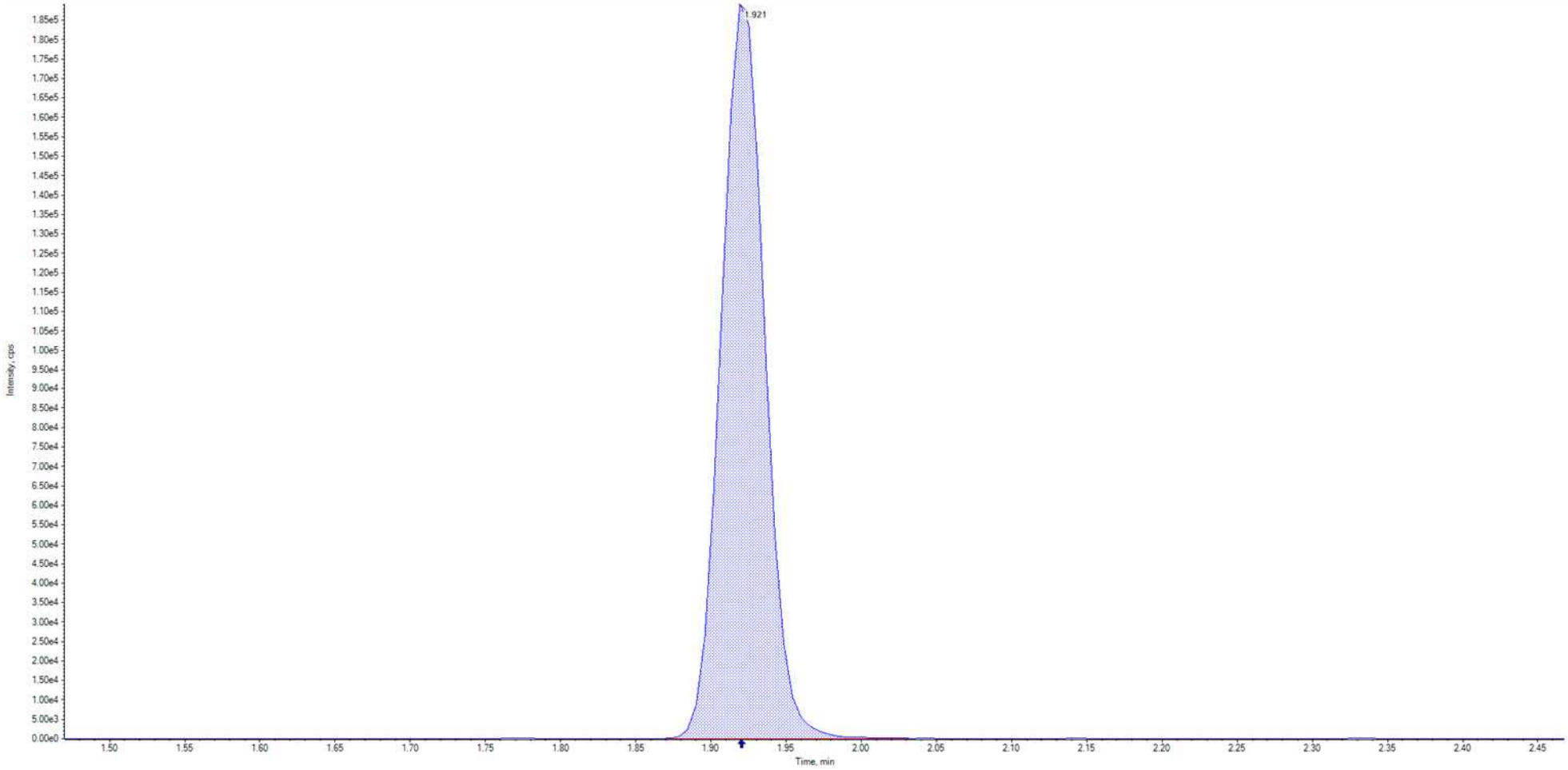
13C2-PFDoA
Sample: WG2035972-3,BSICS



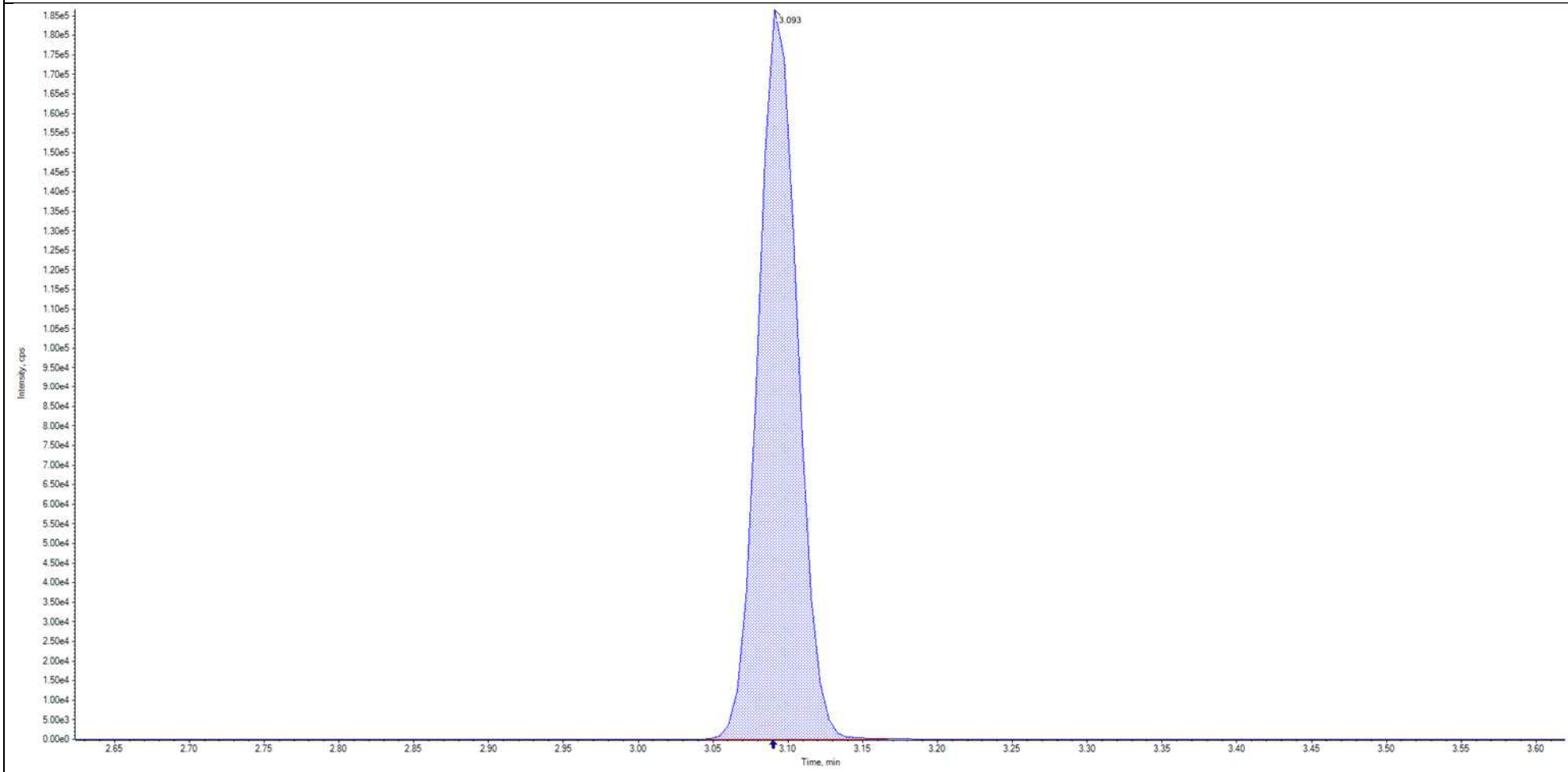
13C2-PFTeDA
Sample: WG2035972-3,BSICS



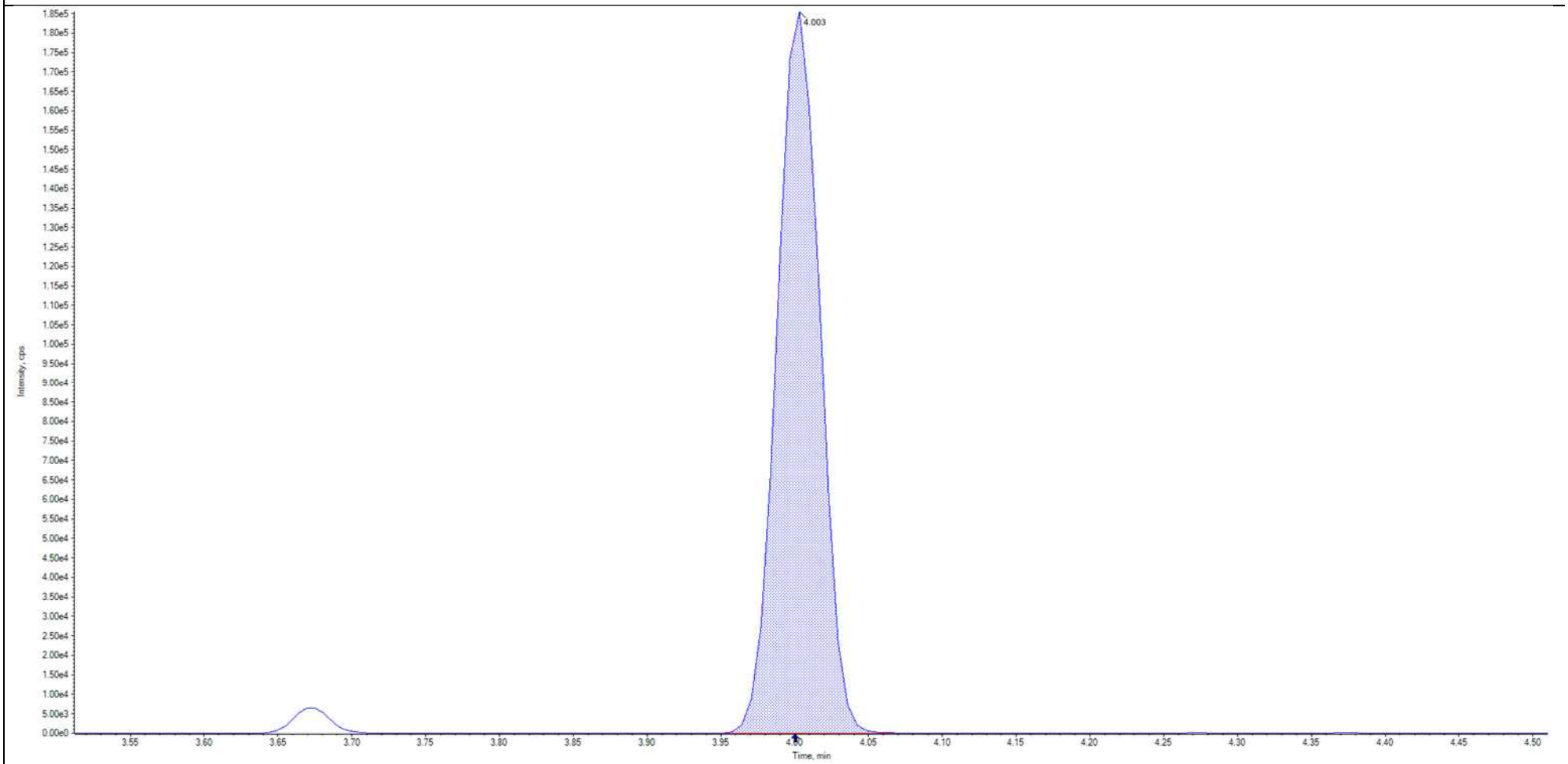
13C3-PFBS
Sample: WG2035972-3,BSICS



13C3-PFHxS
Sample: WG2035972-3,BSICS

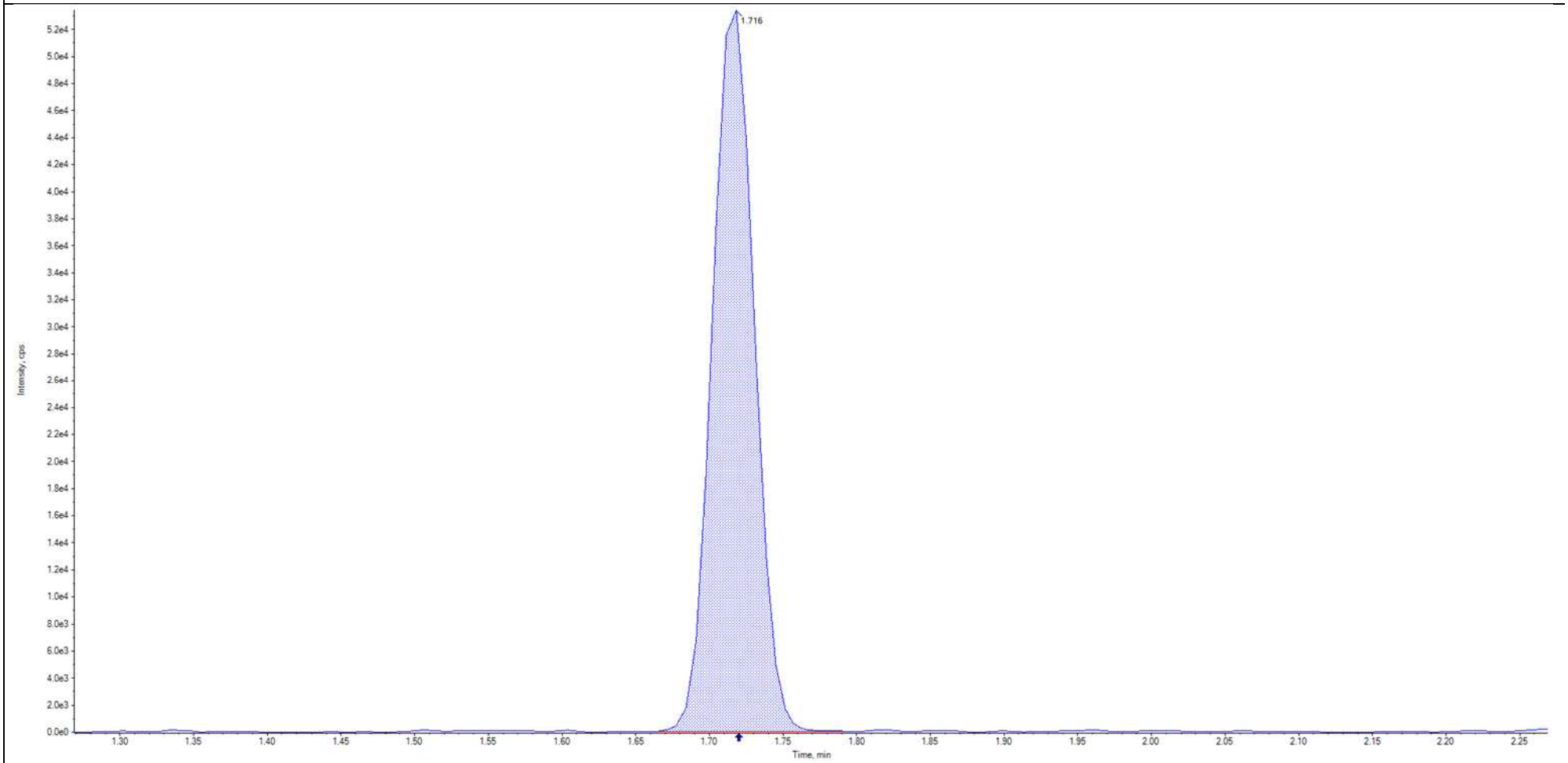


13C8-PFOS
Sample: WG2035972-3,BSICS

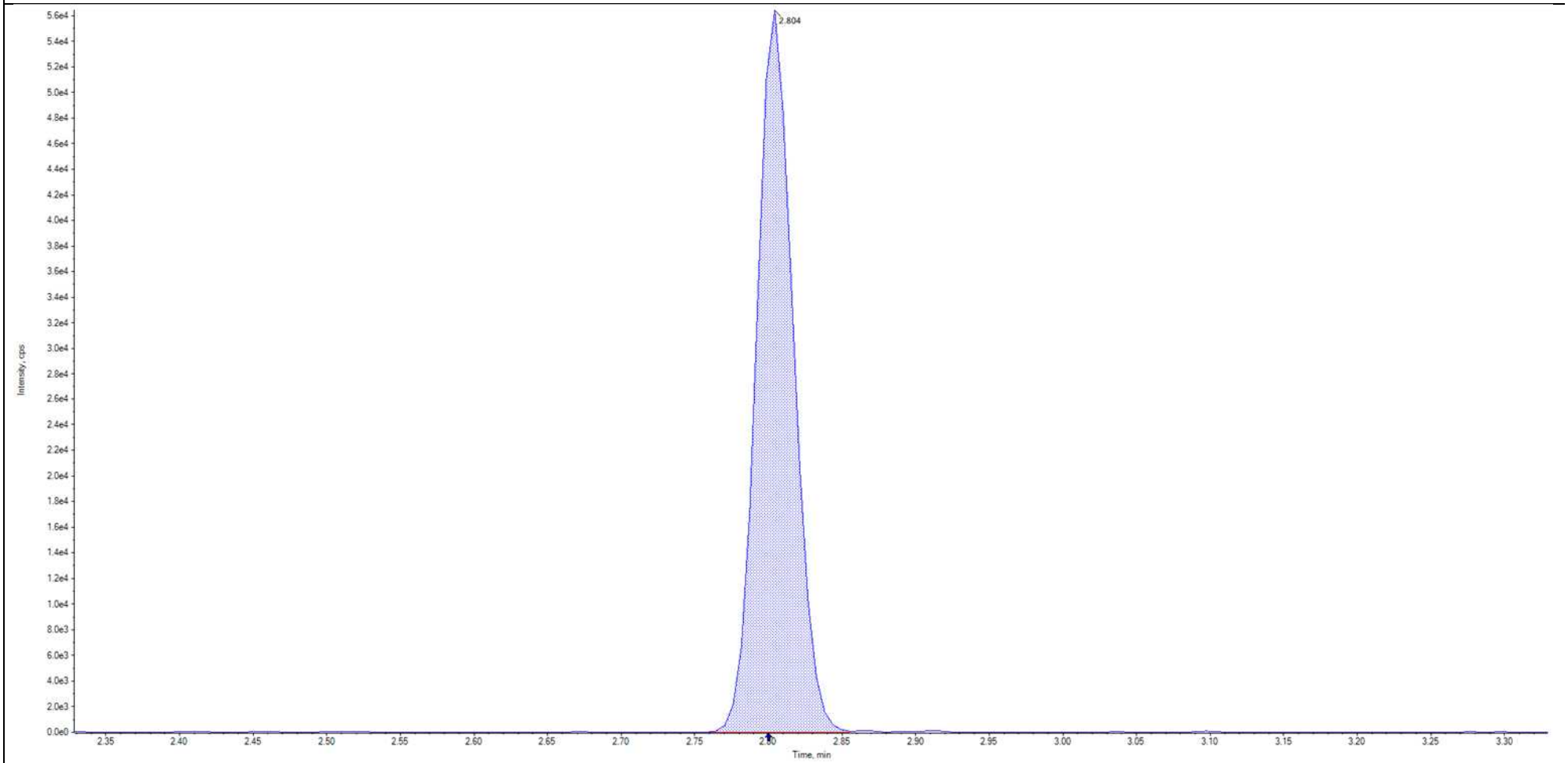


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Alpha Analytical LLC
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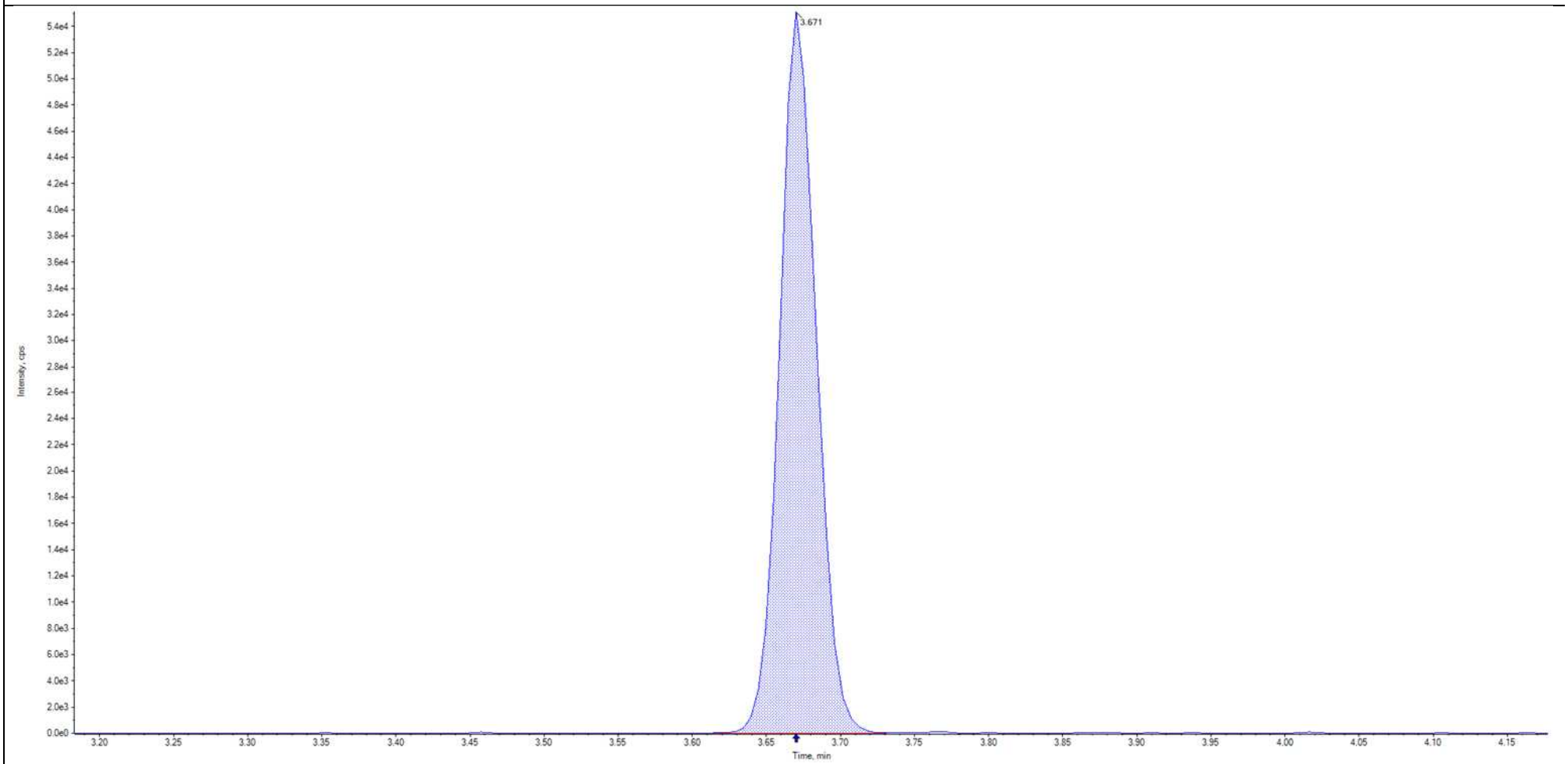
13C2-4:2FTS
Sample: WG2035972-3,BSICS



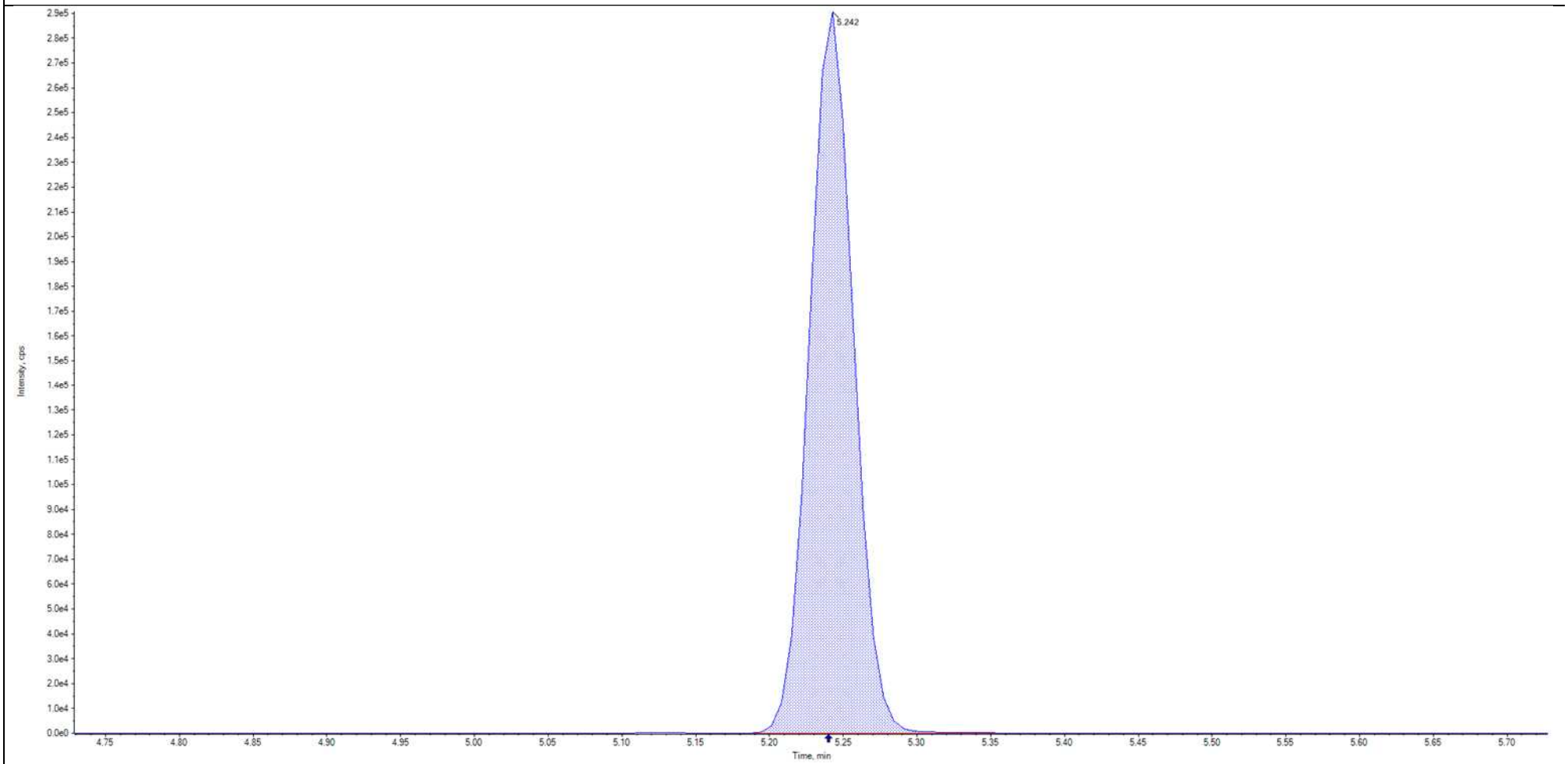
13C2-6:2FTS
Sample: WG2035972-3,BSICS



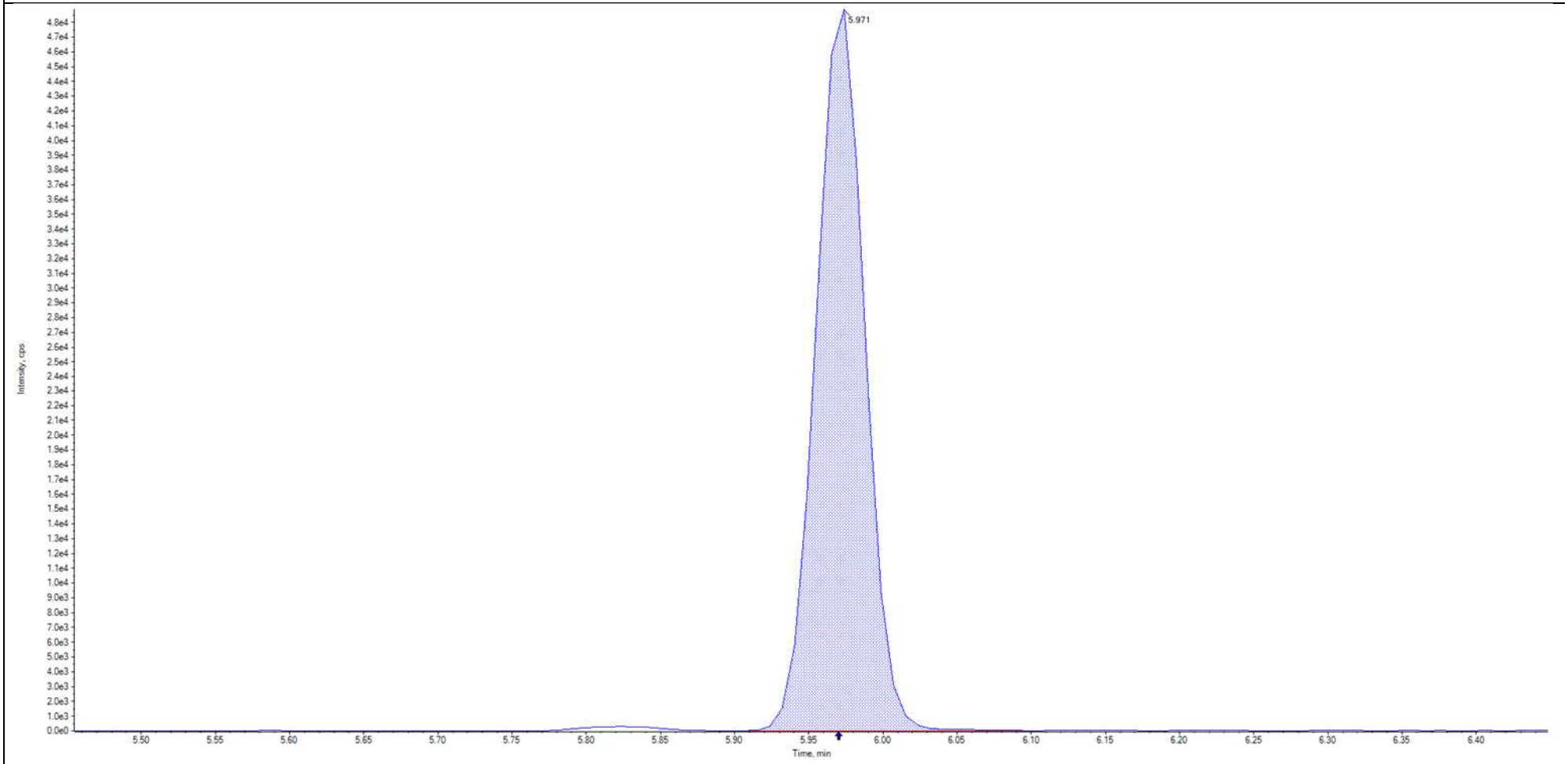
13C2-8:2FTS
Sample: WG2035972-3,BSICS



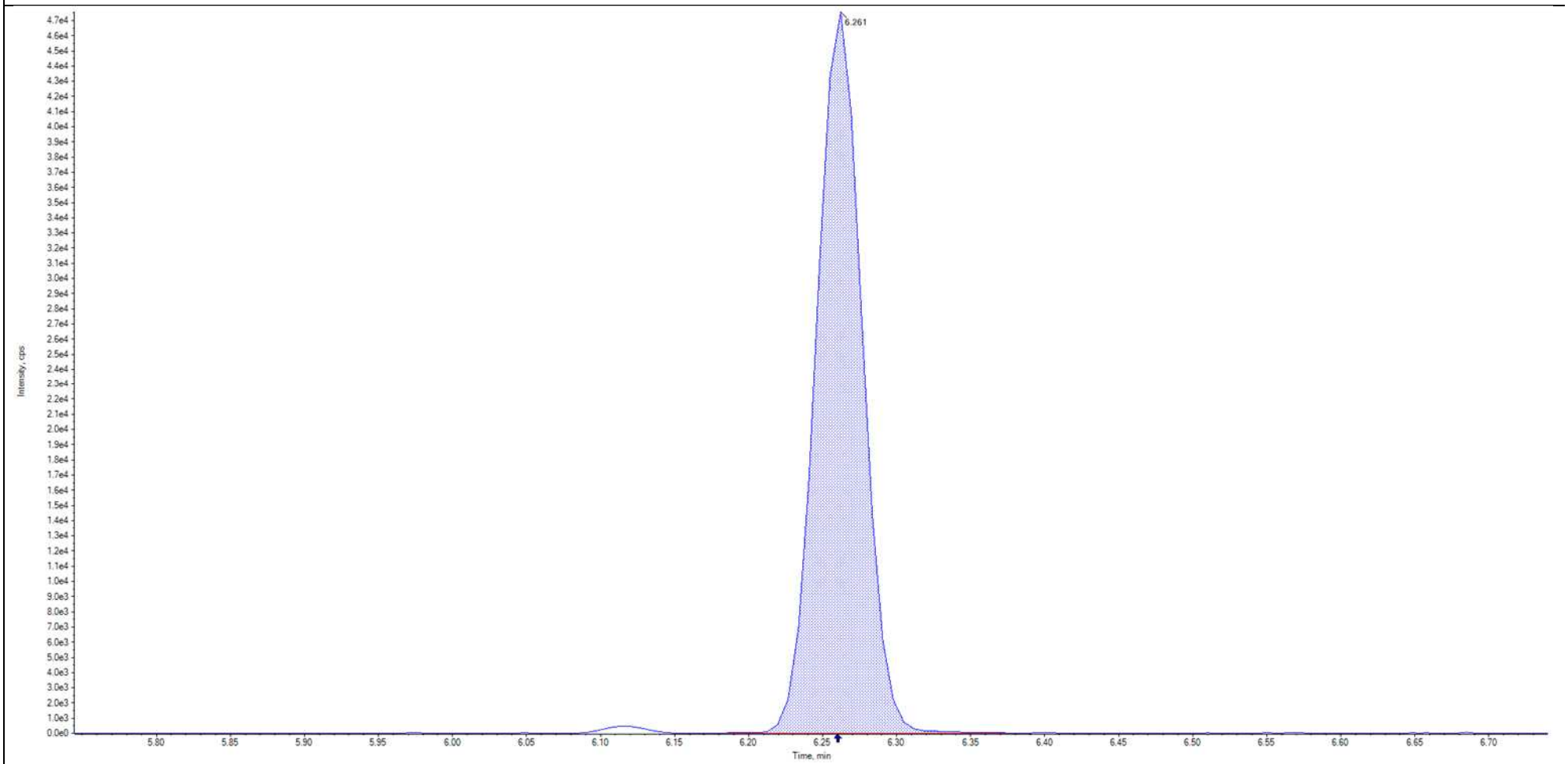
13C8-PFOSA
Sample: WG2035972-3,BSICS



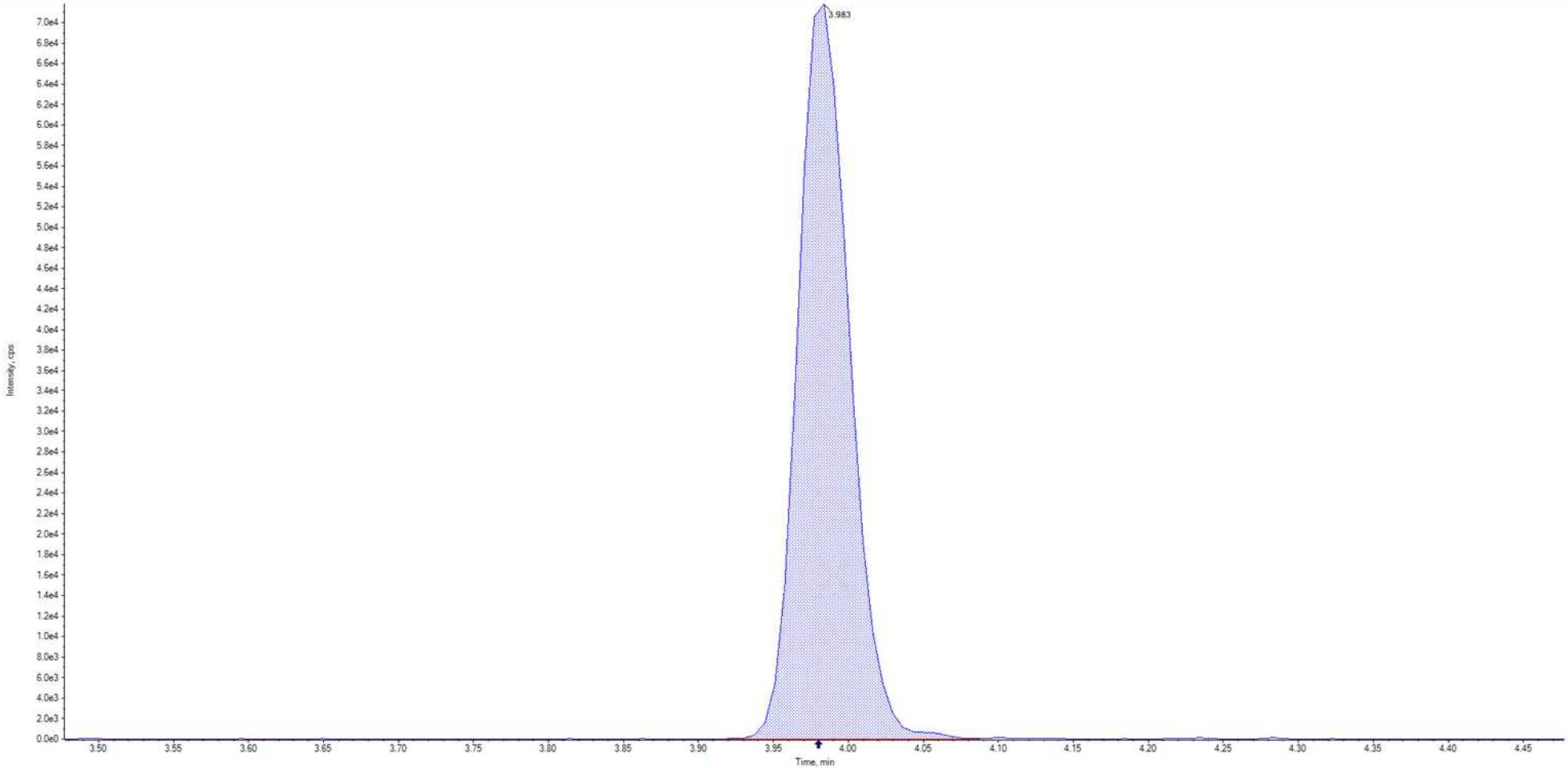
d3-NMeFOSA
Sample: WG2035972-3,BSICS



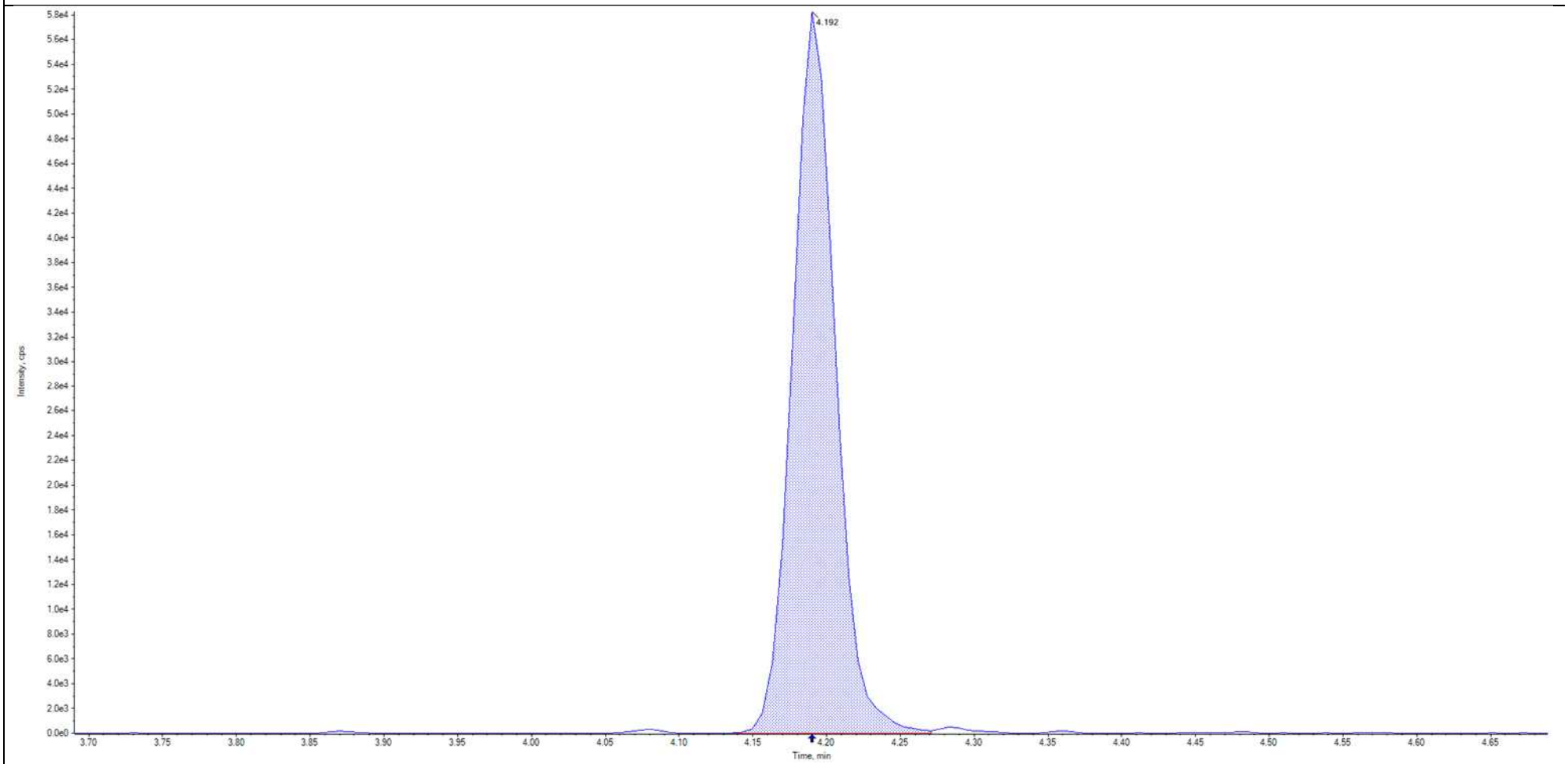
d5-NEtFOSA
Sample: WG2035972-3,BSICS



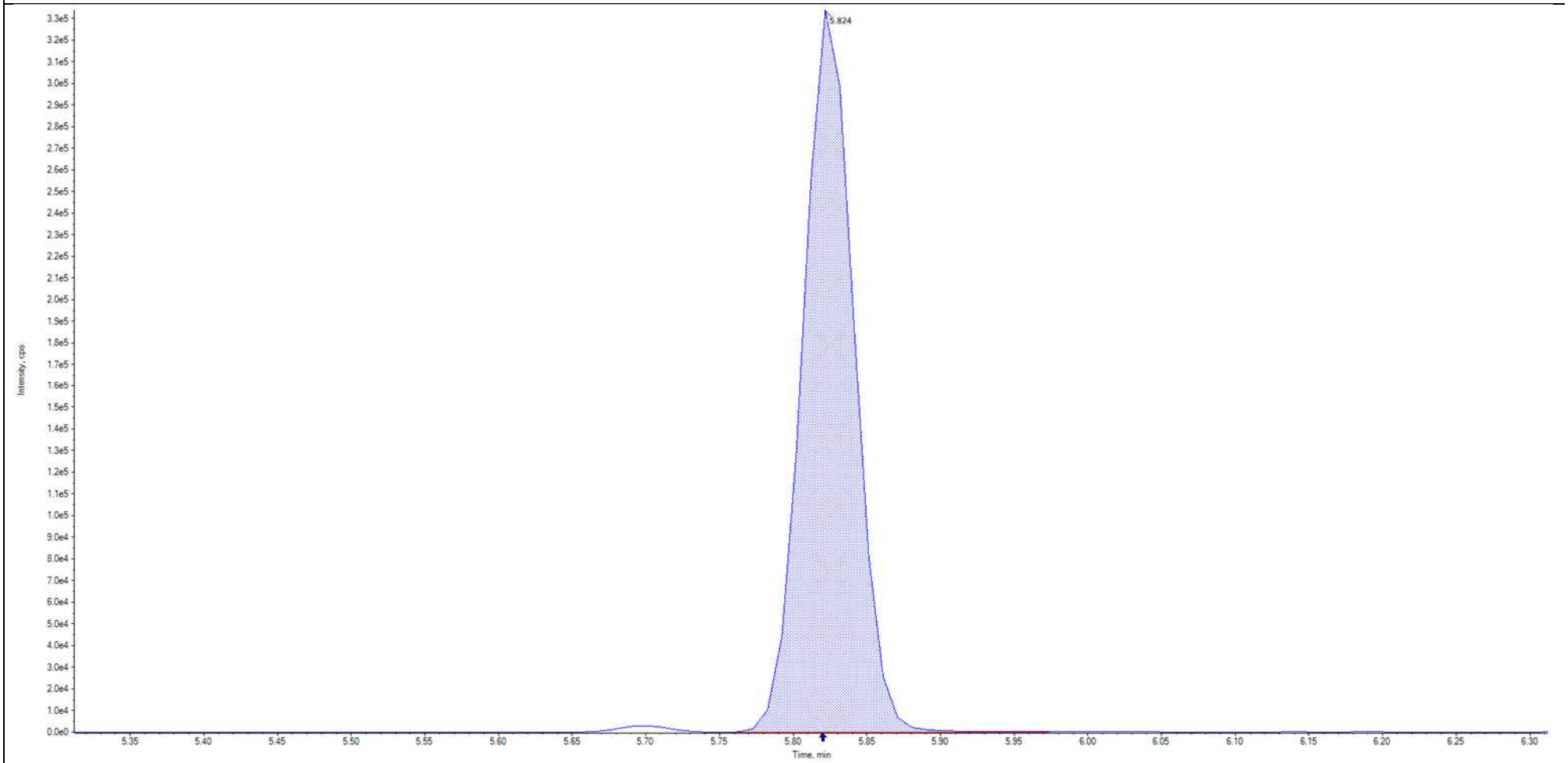
d3-NMeFOSAA
Sample: WG2035972-3,BSICS



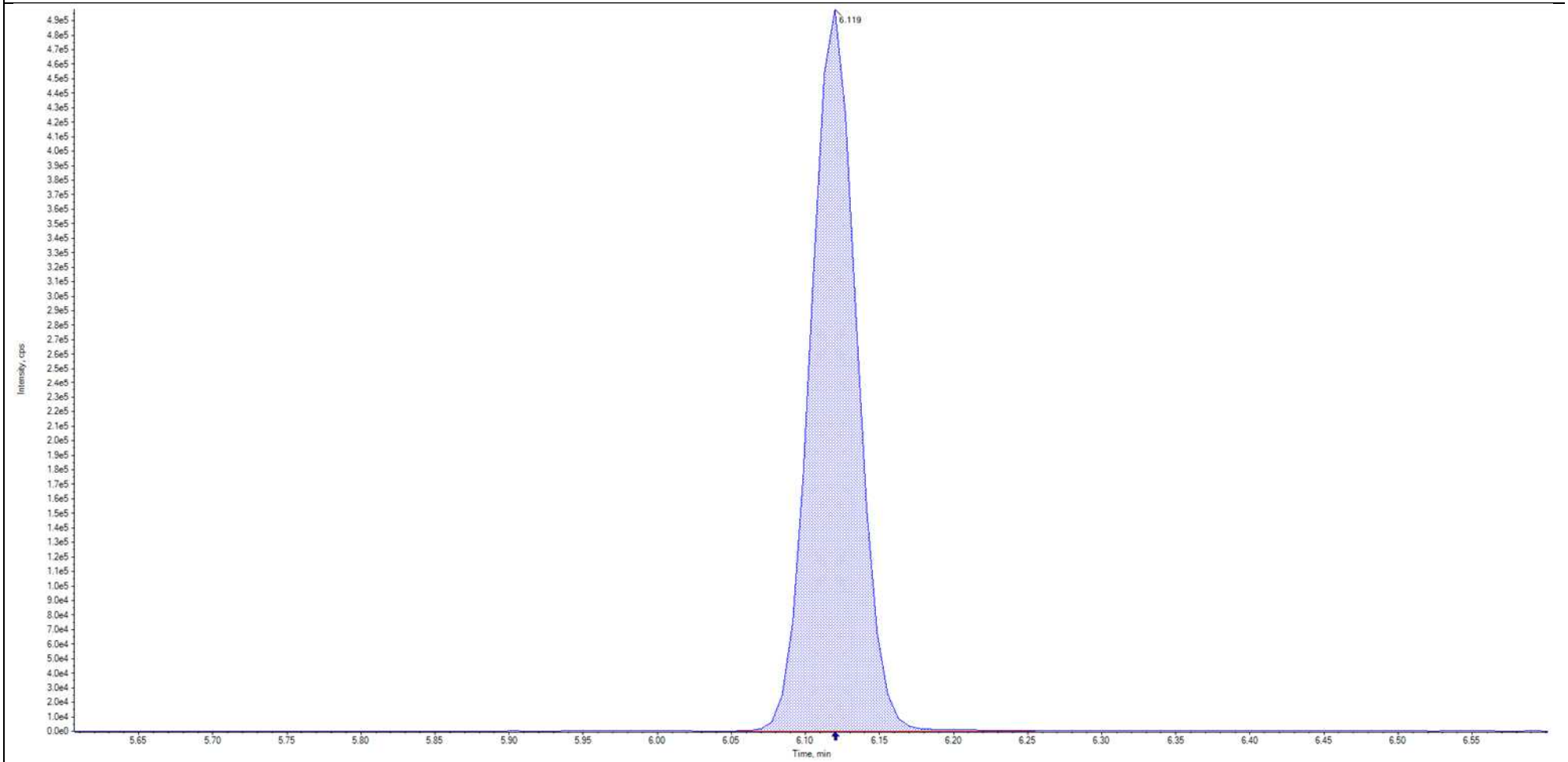
d5-NEtFOSAA
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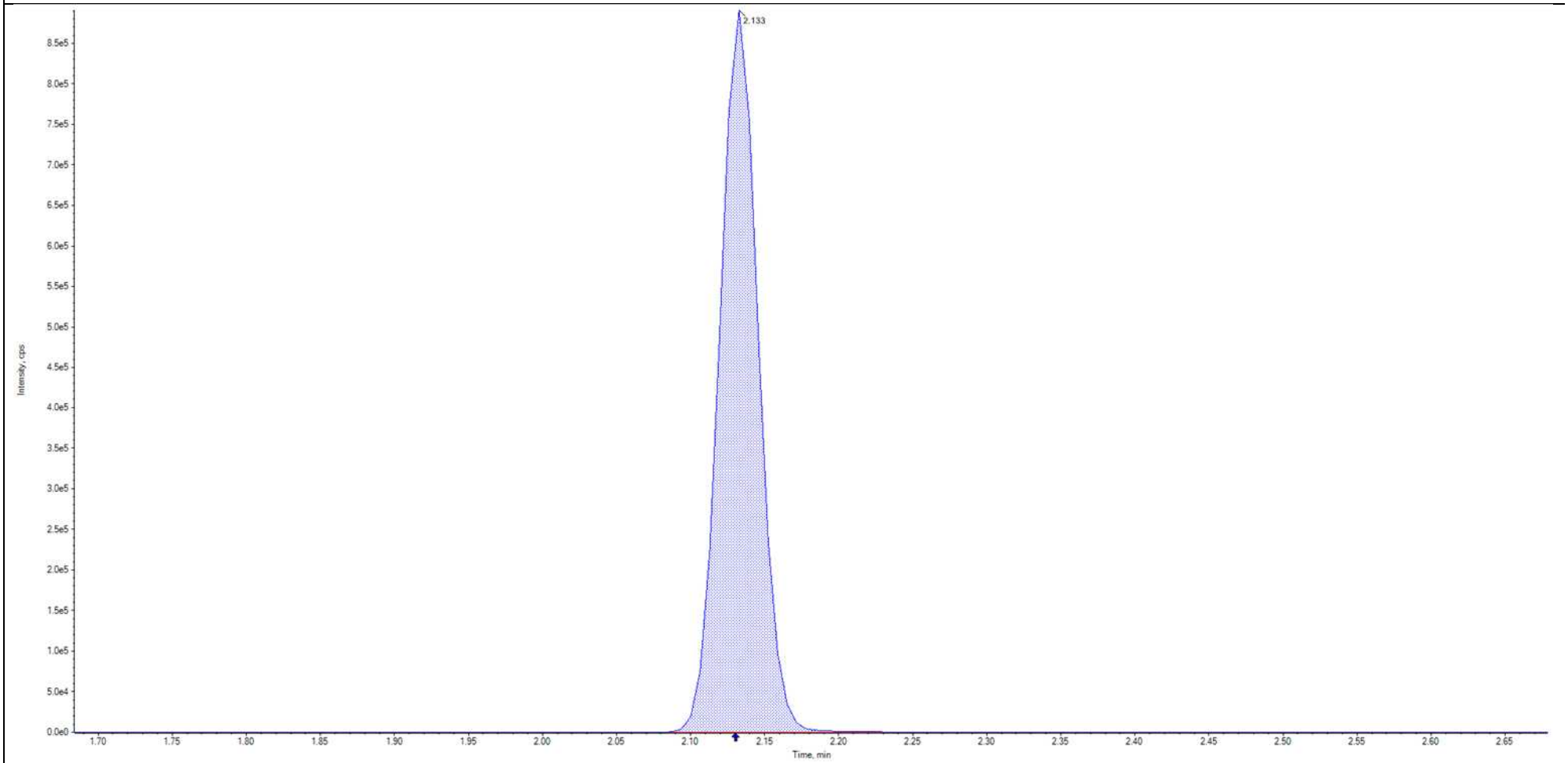
d7-NMeFOSE
Sample: WG2035972-3,BSICS



d9-NEtFOSE
Sample: WG2035972-3,BSICS

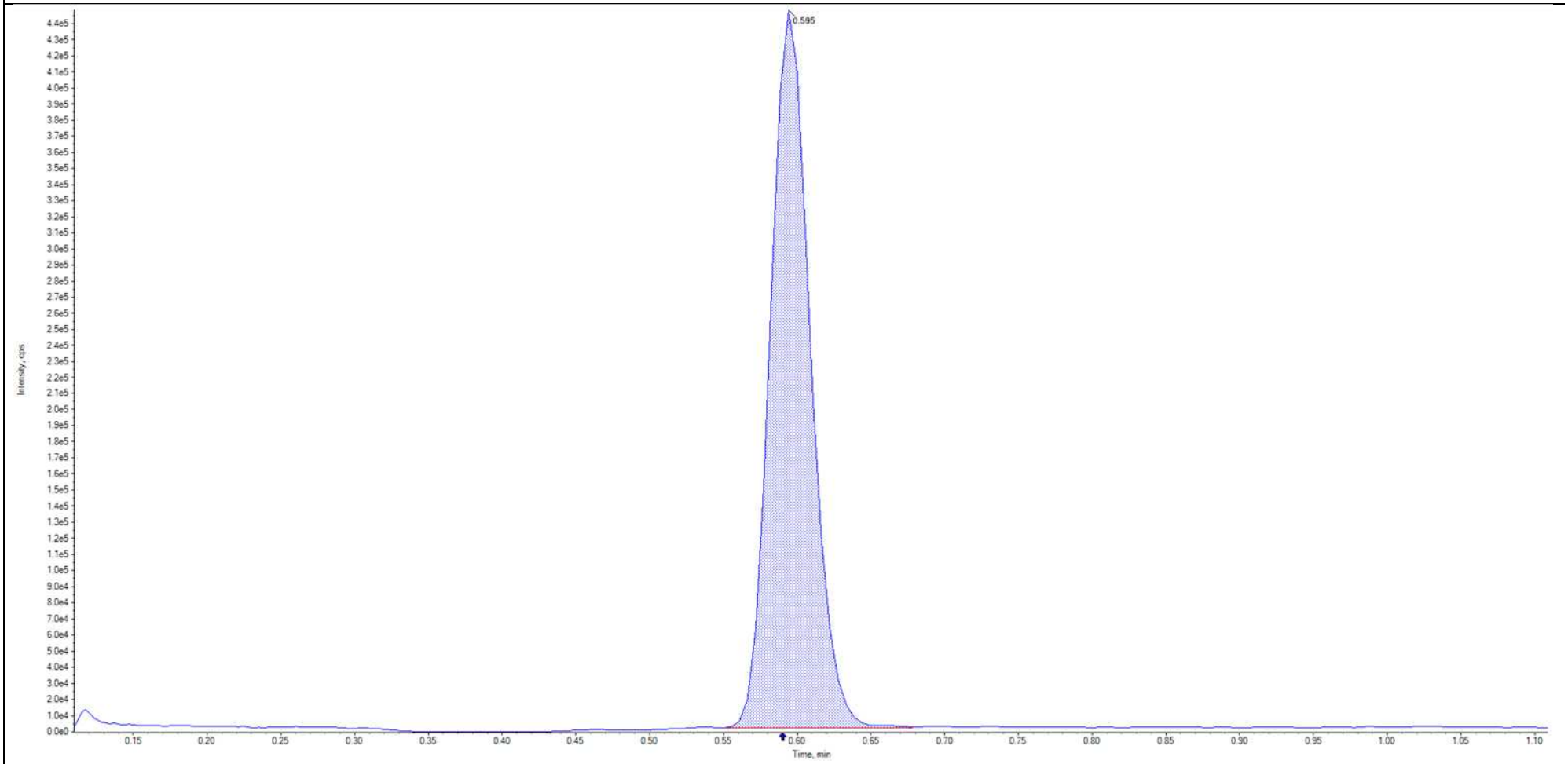


13C3-HFPO-DA
Sample: WG2035972-3,BSICS

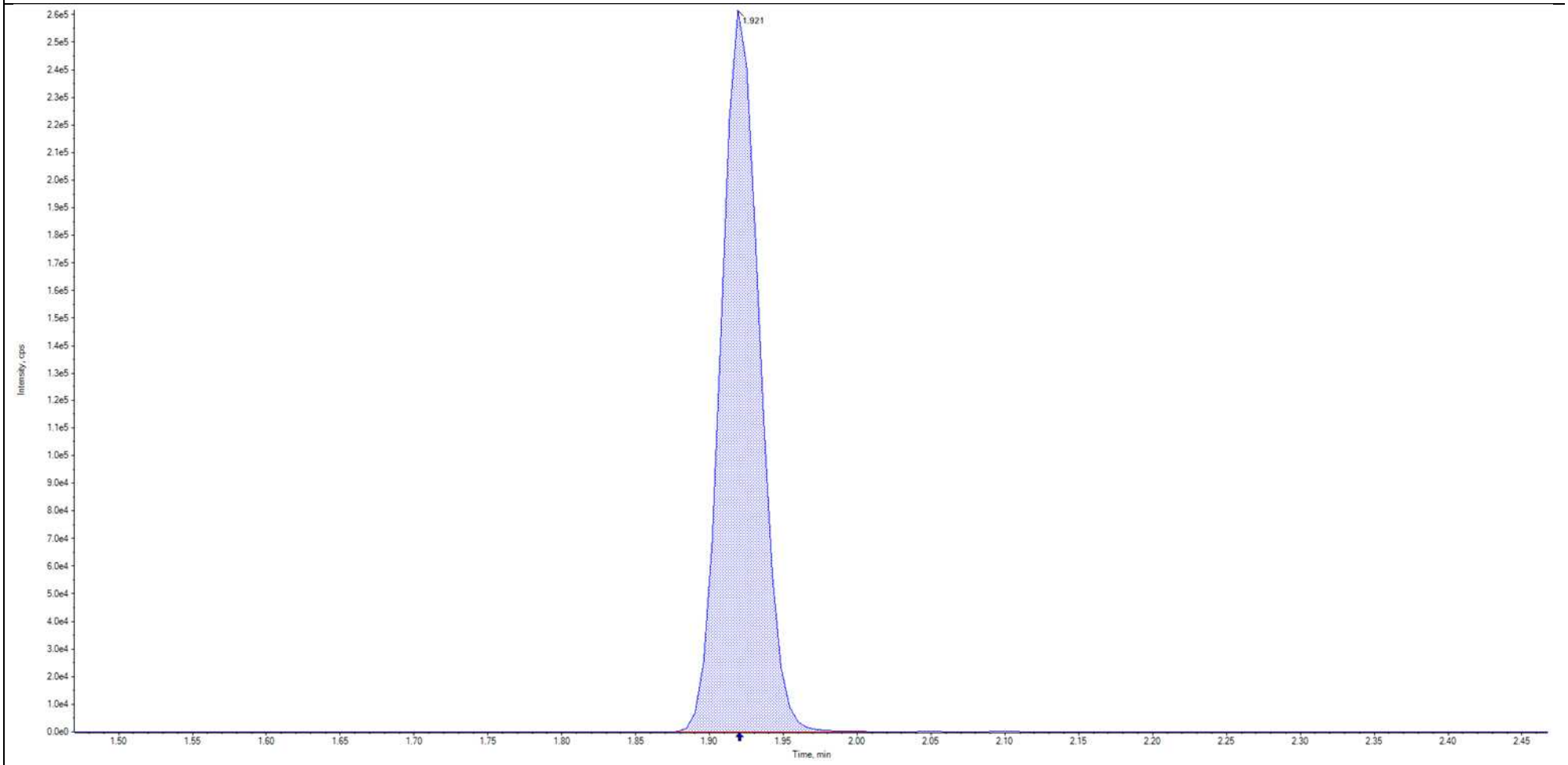


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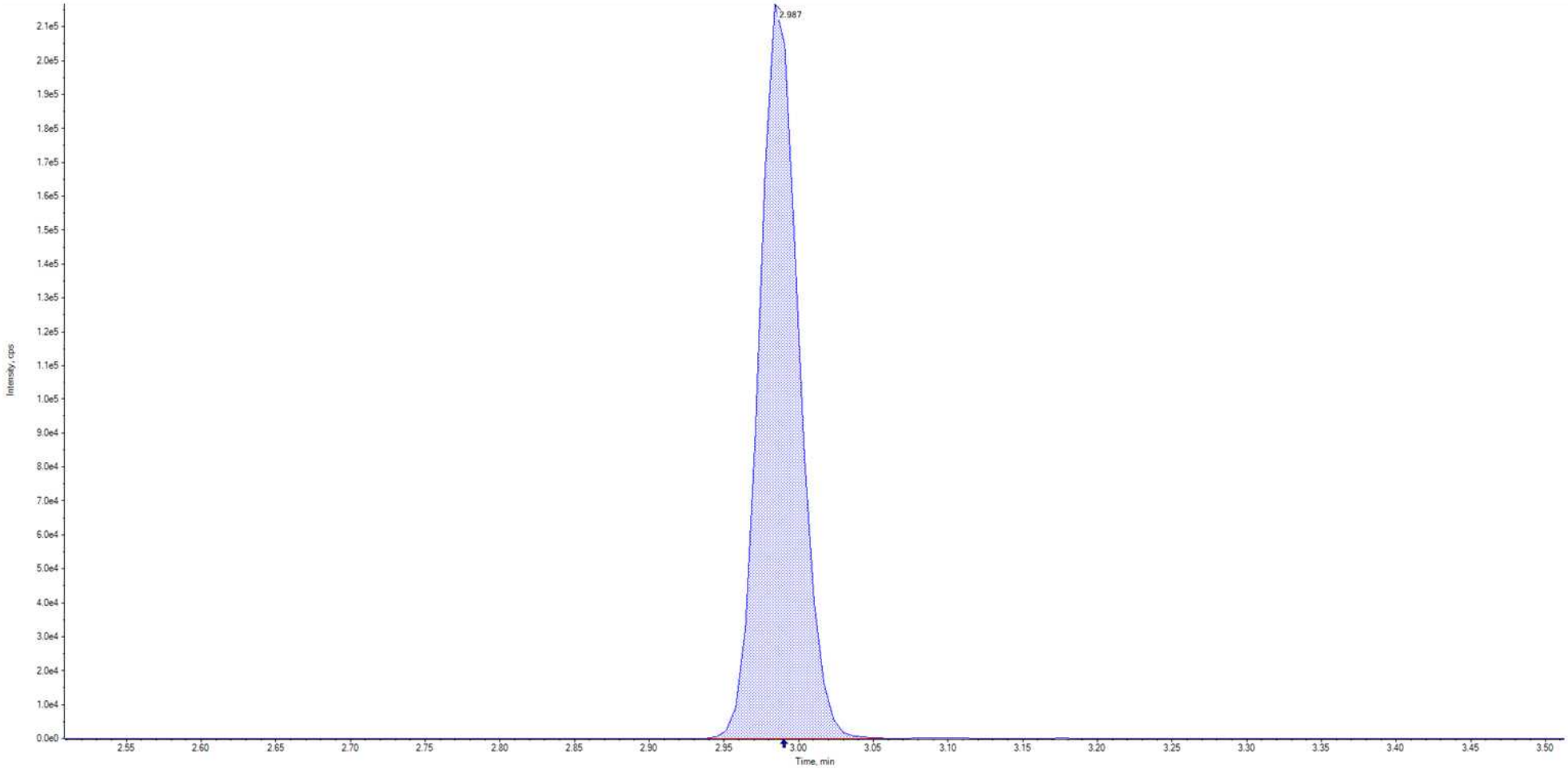
13C3-PFBA
Sample: WG2035972-3,BSICS



13C2-PFHxA
Sample: WG2035972-3,BSICS

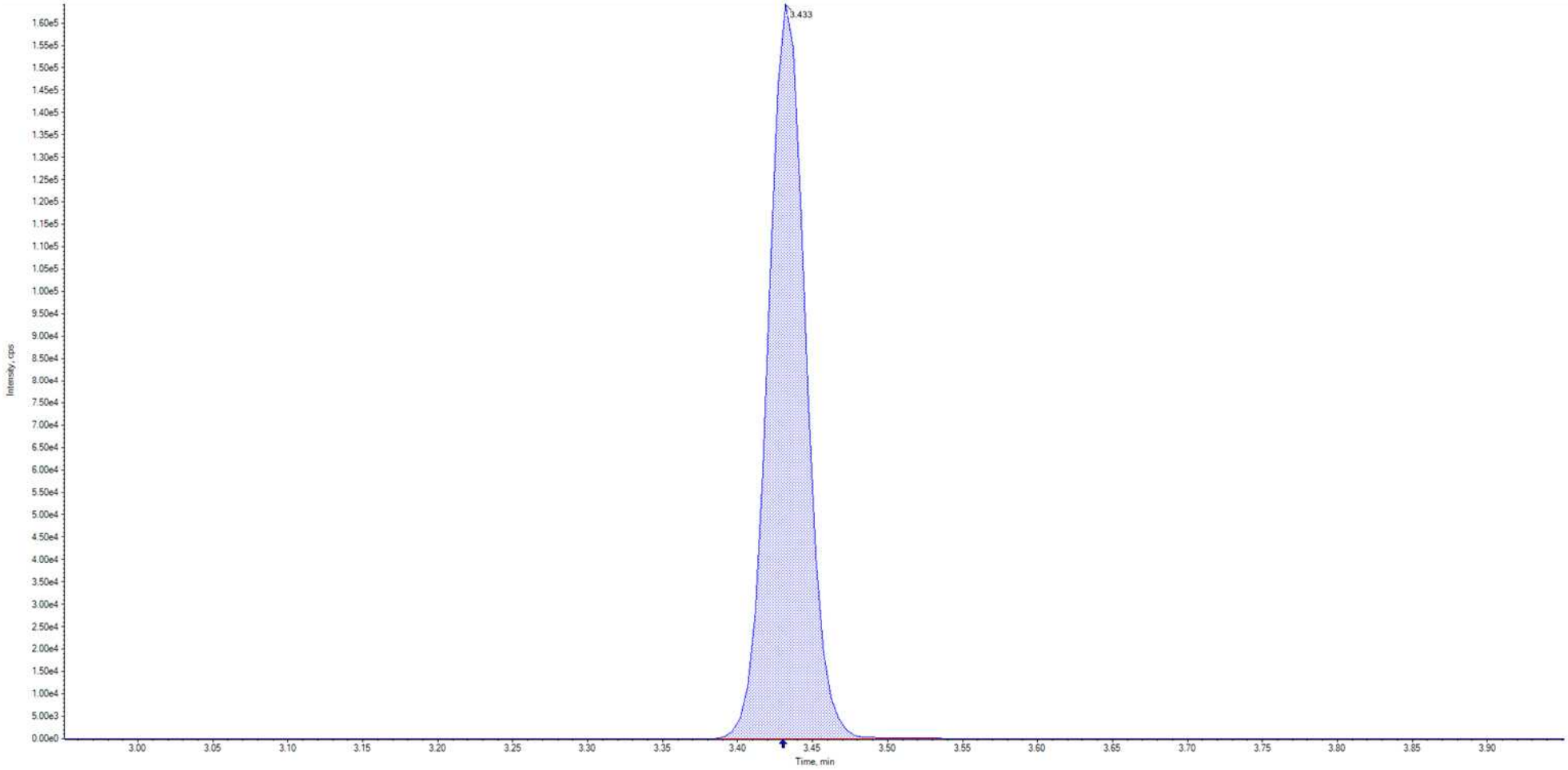


13C4-PFOA
Sample: WG2035972-3,BSICS

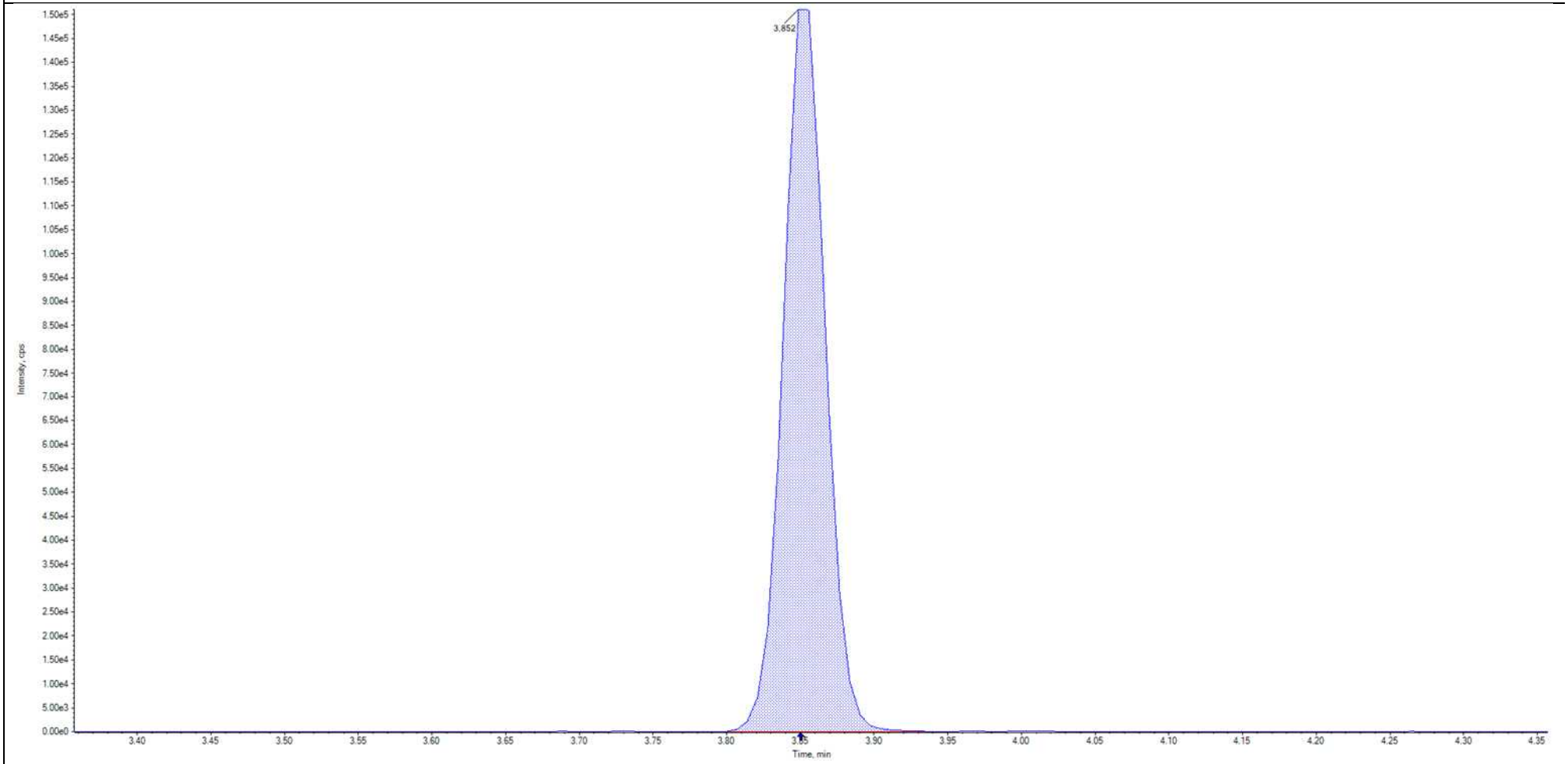


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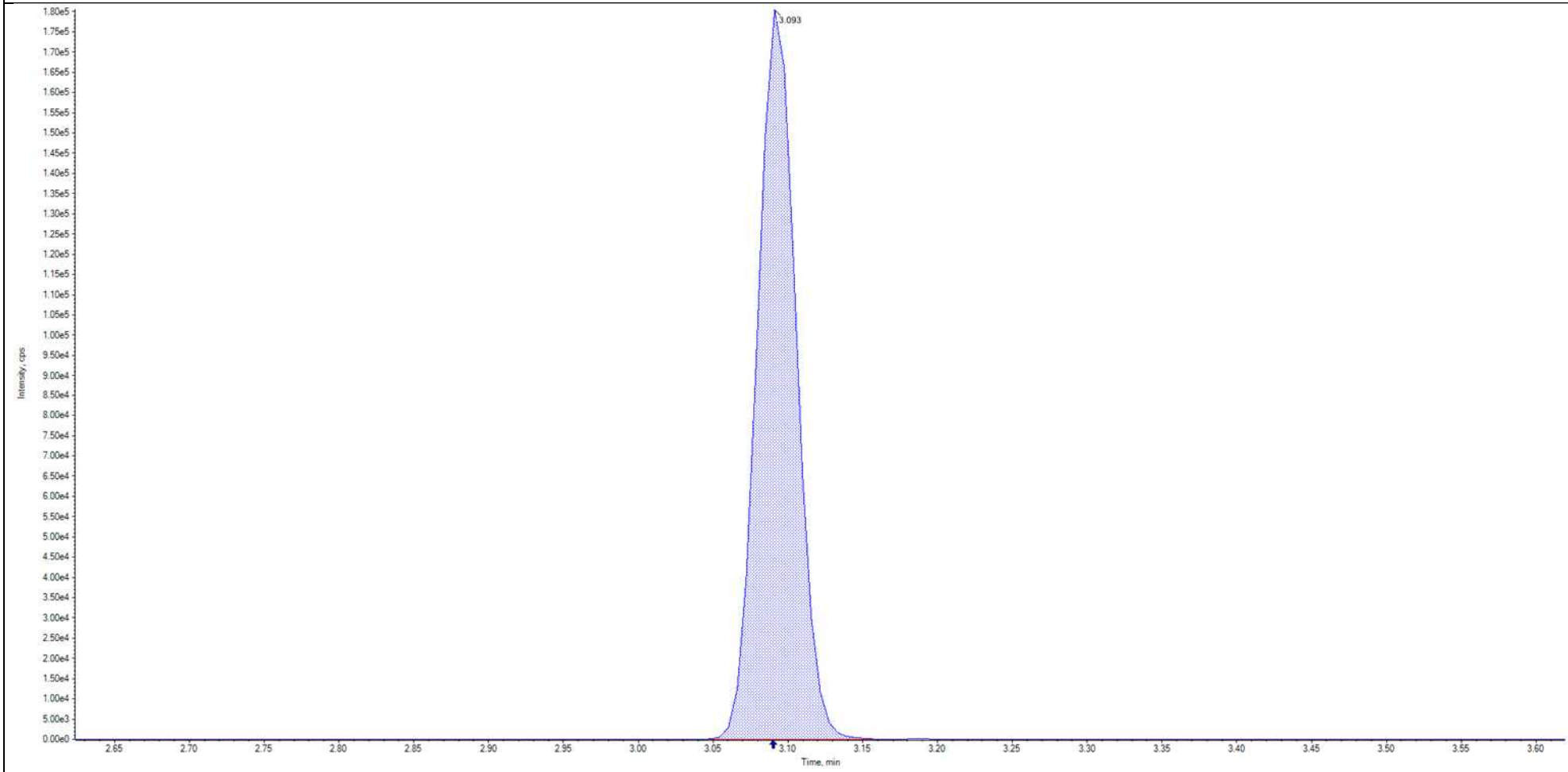
13C5-PFNA
Sample: WG2035972-3,BSICS



13C2-PFDA
Sample: WG2035972-3,BSICS

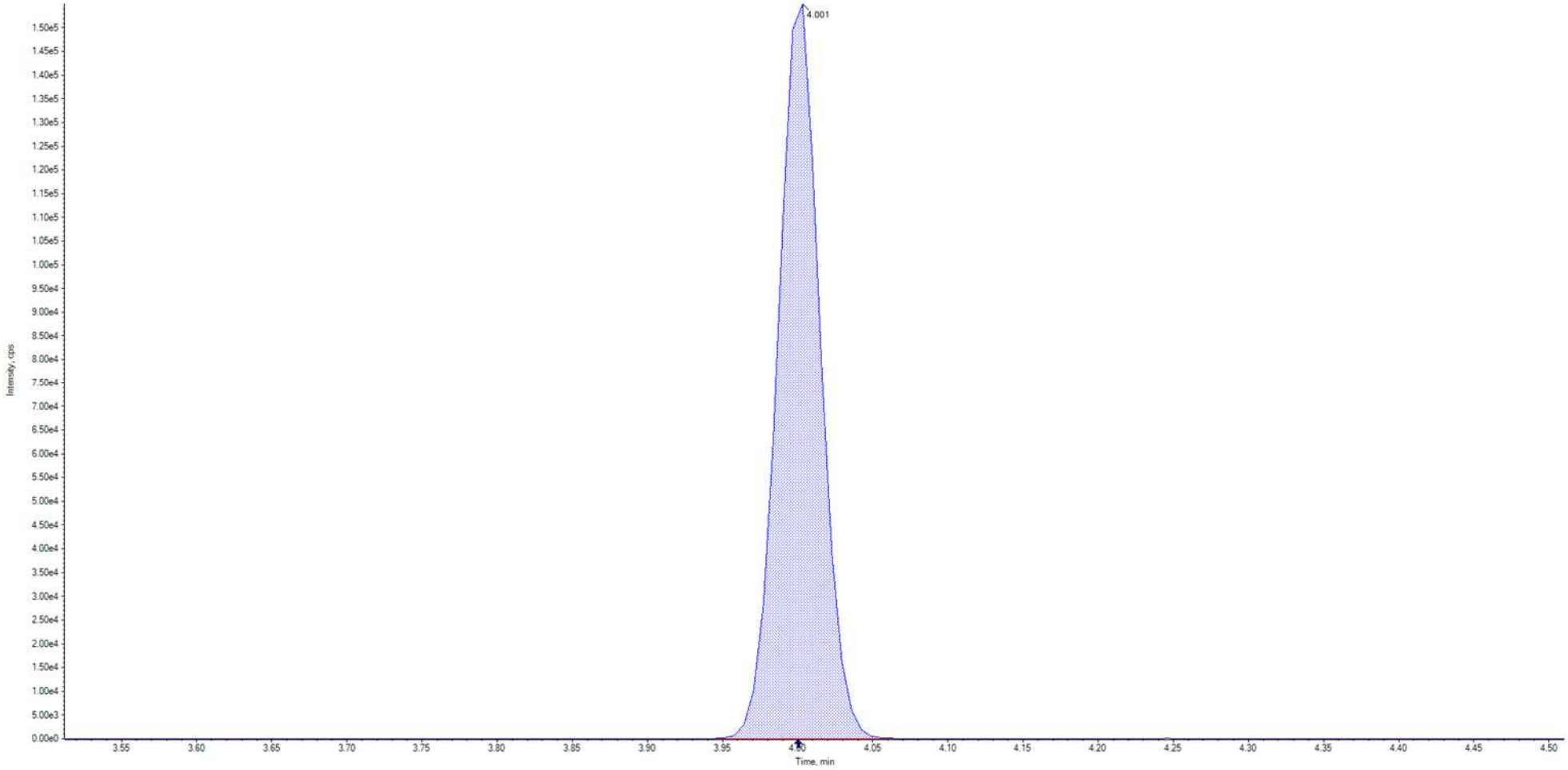


18O2-PFHxS
Sample: WG2035972-3,BSICS



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C4-PFOS
Sample: WG2035972-3,BSICS



Alpha Analytical LLC
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Generated: 3/4/2025 5:58:35 AM

	WG2035792			LCMS09					
	ICAL22044	Cal STD		LCMS250212U	LCMS250213AJ	ECRD250228	EPA1633_240226_TOP	EPA_250120_TDCA	
	Cal Level	LCMS241021AAO	Serial Dilution	EIS µL	NIS µL	Blank µL	TOP Surr	TDCA	Final Vol µL
*	IA1633STD-.1	0	40 µl IA1633STD-2.5	5	5	980	5	5	1000
*	IA1633STD-.2	0	80 µl IA1633STD-2.5	5	5	985	5		1000
*	IA1633STD-.5	0	100 µl IA1633STD-5	5	5	985	5		1000
	IA1633STD-2.5	10		5	5	975	5		1000
	IA1633STD-5	20		5	5	960	5	5	1000
	IA1633STD-12.5	50		5	5	935	5		1000
	IA1633STD-25	100		5	5	885	5		1000
	IA1633STD-50	200		5	5	785	5		1000
	IA1633STD-62.5	250		5	5	730	5	5	1000
	CA1633STD-10	5 µl LCMS241030C		5	5	980	5		1000
	Prepared:	JW 2/28/2025, L2 and L5 on 3/3/2025							

ABSOLUTE STANDARDS, INC.

ISO - 17034

Certificate of Analysis

Certified Reference Material (CRM)

LCMS24 1030 C-D
15 10/30/24

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within +/- 0.5% of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: U_{CRM} is the expanded uncertainty which utilizes a K = 2 (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

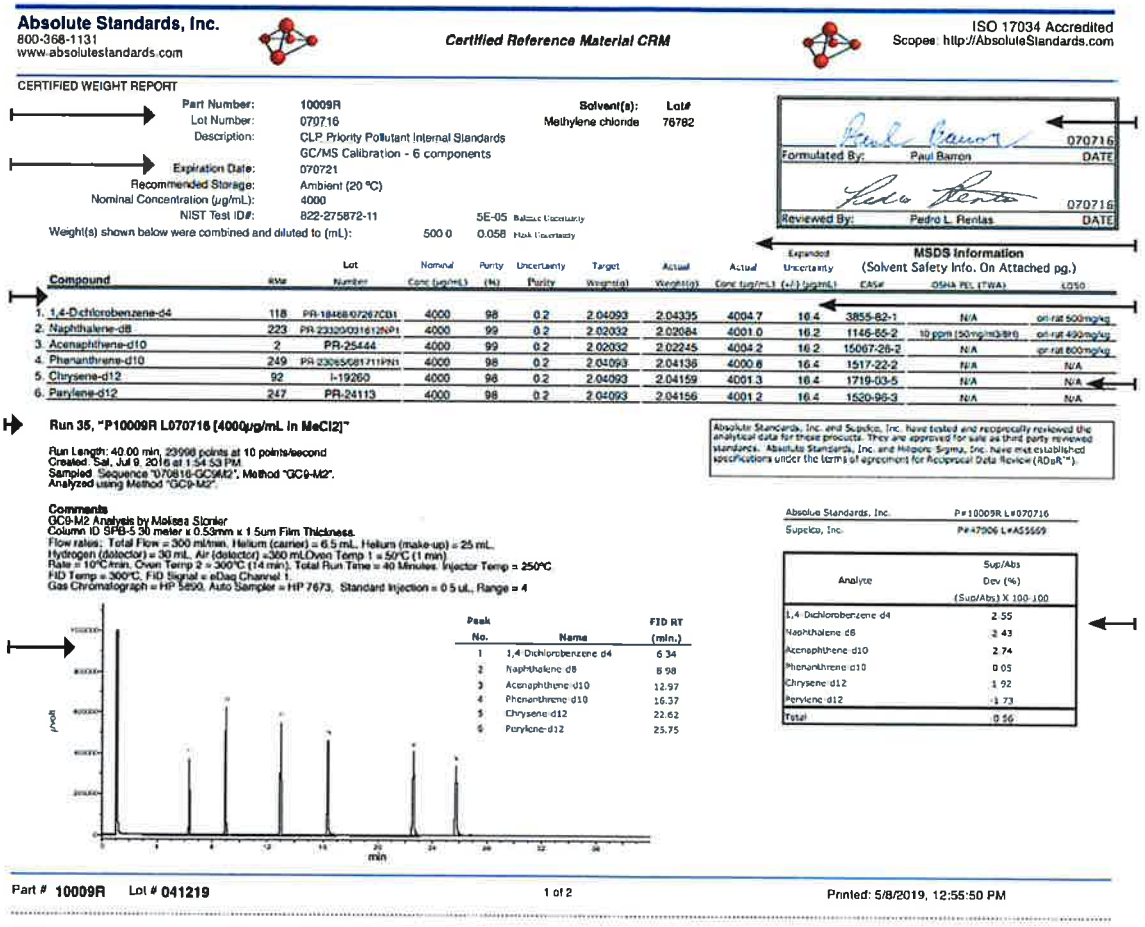
Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.



Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards GC/MS Calibration - 6 components
Expiration Date: 070721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-275872-11

Solvent(s): Methylene chloride
Lot#: 76782

Formulated By: Paul Barron 070716 DATE
Reviewed By: Pedro L. Rentas 070716 DATE

Weight(s) shown below were combined and diluted to (mL): 500.0 (5E-05 Balance Uncertainty, 0.058 Flask Uncertainty)

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	#/Set	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-18468-07267CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	orl-rat 500mg/kg
2. Naphthalene-d8	223	PR-23320031612NP1	4000	99	0.2	2.02032	2.02084	4001.0	16.2	1146-65-2	10 ppm (50 mg/m3) [8H]	orl-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 800mg/kg
4. Phenanthrene-d10	249	PR-23055081711PN1	4000	98	0.2	2.04093	2.04138	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19260	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"

Run Length: 40.00 min, 23998 points at 10 points/second
Created: Sat, Jul 9, 2016 at 1:54:53 PM
Sampled Sequence "070816-GC9M2", Method "GC9-M2".
Analyzed using Method "GC9-M2".

Comments
GC9-M2 Analysis by Melissa Slonker
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL,
Hydrogen (detector) = 30 mL, Air (detector) =300 mLOven Temp 1 = 50°C (1 min)
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes. Injector Temp = 250°C
FID Temp = 300°C, FID Signal = eDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673. Standard Injection = 0.5 uL, Range = 4

Peak No.	Name	FID RT (min.)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Absolute Standards, Inc. and Supelco, Inc. have tested and reciprocally reviewed the analytical data for these products. They are approved for sale as third party reviewed standards. Absolute Standards, Inc. and Millipore Sigma, Inc. have met established specifications under the terms of agreement for Reciprocal Data Review (RDaR™).

Absolute Standards, Inc. P#10009R L#070716
Supelco, Inc. P#47906 L#AS5669

Analyte	Sup/Abs Dev (%) (Sup/Abs) X 100-100
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	3.43
Acenaphthene-d10	2.74
Phenanthrene-d10	0.05
Chrysene-d12	1.92
Perylene-d12	-1.73
Total	0.56

Part # 10009R Lot # 041219 1 of 2 Printed: 5/8/2019, 12:55:50 PM

Part #
Lot #
Shelf Life
Target Compounds
Method of Analysis
Qualitative Quantitative
Formulator Reviewer
Actual Concentration
Uncertainty Values
Health & Safety
3rd Party Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

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Certified Reference Material CRM

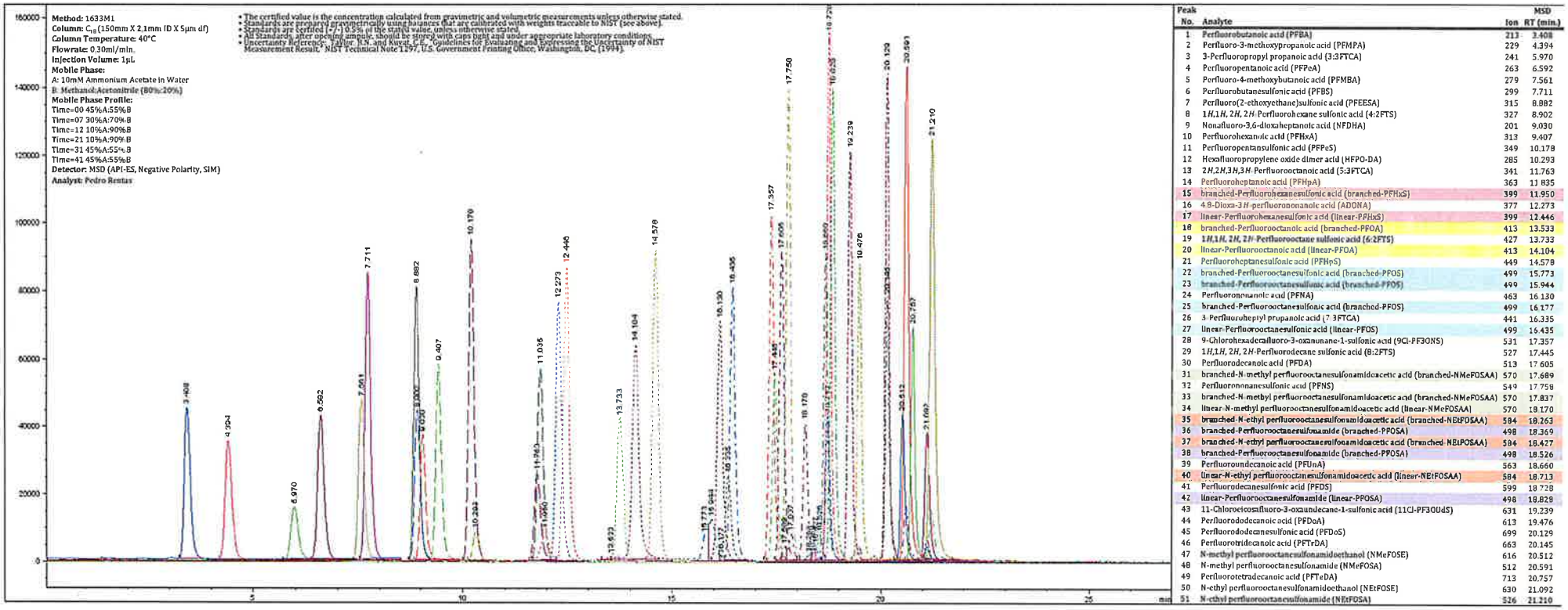
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 65735
Lot Number: 101024
Description: Method 1633 - PFCs - Calibration Standard
40 components
Expiration Date: 101025 **Solvent:** **Lot#**
Recommended Storage: Freezer (0 °C) Methanol (1 mM KOH) 100924
Nominal Concentration (µg/mL): 2
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Volume(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	101024 DATE
Reviewed By:	Pedro L. Rentas	101024 DATE

	Compound	Part Number	Lot Number	Purity (%)	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc.(µg/mL)	Final Conc.(µg/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Perfluoro-n-butanoic acid (PFBA)	65946	102022	98.8	0.040	2.00	0.017	50.2	2.0	0.05	375-22-4	N/A	N/A
2.	Perfluoro-n-pentanoic acid (PFPeA)	65946	102022	98	0.040	2.00	0.017	50.2	2.0	0.05	2706-90-3	N/A	N/A
3.	Perfluorohexanoic acid (PFHxA)	65946	102022	98.4	0.040	2.00	0.017	50.2	2.0	0.05	307-24-4	N/A	N/A
4.	Perfluoroheptanoic acid (PFHpA)	65946	102022	99	0.040	2.00	0.017	50.2	2.0	0.05	375-85-9	N/A	N/A
5.	Perfluorooctanoic acid (PFOA-branched)	65946	102022	99.9	0.040	2.00	0.017	50.2	2.0	0.05	335-67-1 (L)	N/A	ipr-rat 189mg/kg
6.	Perfluorononanoic acid (PFNA)	65946	102022	99.6	0.040	2.00	0.017	50.1	2.0	0.05	375-95-1	N/A	N/A
7.	Perfluorodecanoic acid (PFDA)	65946	102022	99.9	0.040	2.00	0.017	50.2	2.0	0.05	335-76-2	N/A	orl-rat 57mg/kg
8.	Perfluoroundecanoic acid (PFUnA)	65946	102022	99.2	0.040	2.00	0.017	50.2	2.0	0.05	2058-94-8	N/A	N/A
9.	Tricosafluorododecanoic acid	65946	102022	100	0.040	2.00	0.017	50.2	2.0	0.05	307-55-1	N/A	N/A
10.	Perfluorotridecanoic acid (PFTrDA)	65946	102022	98.5	0.040	2.00	0.017	50.2	2.0	0.05	72629-94-8	N/A	N/A
11.	Perfluorotetradecanoic acid (PFTeDA)	65946	102022	98.5	0.040	2.00	0.017	50.2	2.0	0.05	376-06-7	N/A	N/A
12.	Perfluoro-1-butanesulfonic acid (PFBS)	65946	102022	99	0.040	2.00	0.017	50.1	2.0	0.05	375-73-5	N/A	N/A
13.	Perfluoro-1-pentanesulfonic acid (PFPeS)	65946	102022	99	0.040	2.00	0.017	50.2	2.0	0.05	2706-91-4	N/A	N/A
14.	Perfluorohexane-1-sulfonic acid (linear & branched) (PFHxS)	65946	102022	99	0.040	2.00	0.017	50.1	2.0	0.05	355-46-4 (L)	N/A	N/A
15.	Perfluorooctanesulfonic acid (br-PFOS)	65946	102022	99	0.040	2.00	0.017	50.1	2.0	0.05	1763-23-1 (L)	N/A	N/A
16.	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	65946	102022	99	0.040	2.00	0.017	50.2	2.0	0.05	757124-72-4	N/A	N/A
17.	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	65946	102022	99	0.040	2.00	0.017	50.1	2.0	0.05	27619-97-2	N/A	N/A
18.	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	65946	102022	99	0.040	2.00	0.017	50.1	2.0	0.05	113507-82-7	N/A	N/A
19.	Perfluoro-4-oxapentanoic acid (PF4OPeA; PFMPA)	65946	102022	99	0.040	2.00	0.017	50.2	2.0	0.05	377-73-1	N/A	N/A
20.	Perfluoro-5-oxahexanoic acid (PF5OHxA; PFMBA)	65946	102022	99	0.040	2.00	0.017	50.2	2.0	0.05	863090-89-5	N/A	N/A
21.	2-(Heptafluoropropoxy)-2,3,3,3-tetrafluoropropionic acid (HFPO-DA)	65946	102022	98	0.040	2.00	0.017	50.2	2.0	0.05	13252-13-6	N/A	N/A
22.	2H,2H,3H,3H-Perfluorohexanoic acid (3:3 FTCA)	65738	101024	99	0.040	2.00	0.017	50.2	2.0	0.04	356-02-5	N/A	N/A
23.	2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	65739	101024	99	0.040	2.00	0.017	50.2	2.0	0.04	914637-49-3	N/A	N/A
24.	2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	65740	101024	99	0.040	2.00	0.017	50.1	2.0	0.04	812-70-4	N/A	N/A
25.	Perfluoro-1-heptanesulfonic acid (PFHpS)	65942	101722	99	0.040	2.00	0.017	50.0	2.0	0.03	375-92-8	N/A	N/A
26.	Perfluoro-1-nonanesulfonic acid (PFNS)	3957	LPFNS0724	98	0.042	2.10	0.017	48.0	2.0	0.11	68259-12-1	N/A	N/A
27.	Perfluoro-1-decanesulfonic acid (PFDS)	67399	062524	100	0.040	2.00	0.017	50.5	2.0	0.10	335-77-3	N/A	N/A
28.	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	67398	071824	100	0.040	2.00	0.017	50.5	2.0	0.10	39108-34-4 FA	N/A	N/A
29.	Perfluoro-1-dodecanesulfonic acid (PFDoS)	4436	LPFDoS0624	98	0.041	2.04	0.017	48.4	2.0	0.10	79780-39-5	N/A	N/A
30.	N-Methylperfluoro-1-octanesulfonamide (N-MeFOSA)	3666	NMeFOSA0723M	98	0.040	2.00	0.017	50.0	2.0	0.11	31506-32-8	N/A	N/A
31.	N-Ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	3663	NEtFOSA0923M	98	0.040	2.00	0.017	50.0	2.0	0.11	4151-50-2	N/A	N/A
32.	N-Ethylperfluorooctanesulfonamidoacetic acid (br-NEtFOSAA)*	65806	052324	100	0.040	2.00	0.017	50.2	2.0	0.10	2991-50-6 (L)	N/A	N/A
33.	N-Methylperfluorooctanesulfonamidoacetic acid (br-NMeFOSAA)*	4162	brNMeFOSAA0124	98	0.040	2.00	0.017	50.0	2.0	0.03	2355-31-9 (L)	N/A	N/A
34.	2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	3668	NMeFOSE11232M	98	0.040	2.00	0.017	50.0	2.0	0.11	24448-09-7	N/A	N/A
35.	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	3665	NEtFOSE1123M	98	0.040	2.00	0.017	50.0	2.0	0.11	1691-99-2	N/A	N/A
36.	Perfluorooctanesulfonamide (br-FOSA)*	65633	071124	99	0.040	2.00	0.017	50.1	2.0	0.04	754-91-6 (L)	N/A	N/A
37.	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	65795	051922	99	0.040	2.00	0.017	50.1	2.0	0.11	151772-58-6	N/A	N/A
38.	Dodecafluoro-3H-4,8-dioxanonanoic acid (ADONA)	4103	NaDONA0324	98	0.042	2.10	0.017	47.1	2.0	0.11	919005-14-4 FA	N/A	N/A
39.	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	4164	9ClPF3ONS0524	98	0.042	2.10	0.017	46.6	2.0	0.10	756426-58-1	N/A	N/A
40.	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	4165	11ClPF3OUdS0424	98	0.042	2.10	0.017	47.1	2.0	0.11	763051-92-9	N/A	N/A
	Perfluorooctanoic acid (linear)*	65946	102022		0.040	2.00	0.017	44.3	1.77	0.030	335-67-1 (L)	N/A	ipr-rat 189mg/kg
	Perfluorooctanoic acid (branched isomer)*	65946	102022		0.040	2.00	0.017	5.9	0.24	0.0040	90480-55-0 (br)	N/A	ipr-rat 189mg/kg
	Perfluorohexanesulfonic acid (linear)*	65946	102022		0.040	2.00	0.017	49.2	1.97	0.03	355-46-4 (L)	N/A	N/A
	Perfluorohexanesulfonic acid (branched isomer)*	65946	102022		0.040	2.00	0.017	1.0	0.04	0.0006	3871-99-6 (br)	N/A	N/A
	Heptadecafluorooctanesulfonic acid (linear)*	65946	102022		0.040	2.00	0.017	38.7	1.55	0.03	1763-23-1 (L)	N/A	N/A
	Heptadecafluorooctanesulfonic acid (branched isomer)*	65946	102022		0.040	2.00	0.017	4.6	0.18	0.003	N/A	N/A	N/A
	Heptadecafluorooctanesulfonic acid (branched isomer)*	65946	102022		0.040	2.00	0.017	6.3	0.25	0.004	N/A	N/A	N/A
	Heptadecafluorooctanesulfonic acid (branched isomer)*	65946	102022		0.040	2.00	0.017	0.5	0.02	0.0003	N/A	N/A	N/A
	N-Ethylperfluoro-1-octanesulfonamidoacetic acid (linear)*	65806	052324		0.040	2.00	0.017	43.4	1.73	0.03	2991-50-6 (L)	N/A	N/A
	N-Ethylperfluoro-1-octanesulfonamidoacetic acid (branched)*	65806	052324		0.040	2.00	0.017	4.7	0.19	0.003	N/A	N/A	N/A
	N-Ethylperfluoro-1-octanesulfonamidoacetic acid (branched)*	65806	052324		0.040	2.00	0.017	2.1	0.08	0.001	N/A	N/A	N/A
	N-Methylperfluoro-1-octanesulfonamidoacetic acid (linear)*	4162	brNMeFOSAA0124		0.040	2.00	0.017	38.3	1.53	0.03	2355-31-9 (L)	N/A	N/A
	N-Methylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4162	brNMeFOSAA0124		0.040	2.00	0.017	8.1	0.32	0.005	N/A	N/A	N/A
	N-Methylperfluoro-1-octanesulfonamidoacetic acid (branched)*	4162	brNMeFOSAA0124		0.040	2.00	0.017	3.7	0.15	0.003	N/A	N/A	N/A
	Perfluorooctanesulfonamide (linear)*	65633	110422		0.040	2.00	0.017	46.8	1.87	0.03	754-91-6 (L)	N/A	N/A
	Perfluorooctanesulfonamide (branched)*	65633	110422		0.040	2.00	0.017	2.8	0.11	0.002	N/A	N/A	N/A
	Perfluorooctanesulfonamide (branched)*	65633	110422		0.042	2.10	0.017	0.5	0.02	0.0003	N/A	N/A	N/A



Peak No.	Analyte	Ion	MSD RT (min.)
1	Perfluorobutanoic acid (PFBA)	213	3.408
2	Perfluoro-3-methoxypropanoic acid (PFMPA)	229	4.394
3	3-Perfluoropropyl propanoic acid (3:3FTCA)	241	5.970
4	Perfluoropentanoic acid (PFPeA)	263	6.592
5	Perfluoro-4-methoxybutanoic acid (PFMBA)	279	7.561
6	Perfluorobutanesulfonic acid (PFBS)	299	7.711
7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	315	8.882
8	1*H*,1*H*, 2*H*, 2*H*-Perfluorohexane sulfonic acid (4:2FTS)	327	8.902
9	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	201	9.030
10	Perfluorohexanoic acid (PFHxA)	313	9.407
11	Perfluoropentansulfonic acid (PFPeS)	349	10.178
12	Hexafluoropropylene oxide dimer acid (HFPO-DA)	285	10.293
13	2*H*,2*H*,3*H*,3*H*-Perfluorooctanoic acid (5:3FTCA)	341	11.763
14	Perfluoroheptanoic acid (PFHpA)	363	11.835
15	branched-Perfluorohexanesulfonic acid (branched-PFHxS)	399	11.950
16	4,8-Dioxa-3*H*-perfluorononanoic acid (ADONA)	377	12.273
17	linear-Perfluorohexanesulfonic acid (linear-PFHxS)	399	12.446
18	branched-Perfluorooctanoic acid (branched-PFOA)	413	13.533
19	1*H*,1*H*, 2*H*, 2*H*-Perfluorooctane sulfonic acid (6:2FTS)	427	13.733
20	linear-Perfluorooctanoic acid (linear-PFOA)	413	14.104
21	Perfluoroheptanesulfonic acid (PFHpS)	449	14.578
22	branched-Perfluorooctanesulfonic acid (branched-PFOS)	499	15.773
23	branched-Perfluorooctanesulfonic acid (branched-PFOS)	499	15.944
24	Perfluorononanoic acid (PFNA)	463	16.130
25	branched-Perfluorooctanesulfonic acid (branched-PFOS)	499	16.177
26	3-Perfluoroheptyl propanoic acid (7:3FTCA)	441	16.335
27	linear-Perfluorooctanesulfonic acid (linear-PFOS)	499	16.435
28	9-Chlorohexadecafluoro-3-oxanunane-1-sulfonic acid (9Cl-PF3ONS)	531	17.357
29	1*H*,1*H*, 2*H*, 2*H*-Perfluorodecane sulfonic acid (8:2FTS)	527	17.445
30	Perfluorodecanoic acid (PFDA)	513	17.605
31	branched-N-methyl perfluorooctanesulfonamidoacetic acid (branched-NMeFOSAA)	570	17.689
32	Perfluorononanesulfonic acid (PFNS)	549	17.758
33	branched-N-methyl perfluorooctanesulfonamidoacetic acid (branched-NMeFOSAA)	570	17.837
34	linear-N-methyl perfluorooctanesulfonamidoacetic acid (linear-NMeFOSAA)	570	18.170
35	branched-N-ethyl perfluorooctanesulfonamidoacetic acid (branched-NEtFOSAA)	584	18.263
36	branched-Perfluorooctanesulfonamide (branched-PFOSA)	498	18.369
37	branched-N-ethyl perfluorooctanesulfonamidoacetic acid (branched-NEtFOSAA)	584	18.427
38	branched-Perfluorooctanesulfonamide (branched-PFOSA)	498	18.526
39	Perfluoroundecanoic acid (PFUnA)	563	18.660
40	linear-N-ethyl perfluorooctanesulfonamidoacetic acid (linear-NEtFOSAA)	584	18.713
41	Perfluorodecanesulfonic acid (PFDS)	599	18.728
42	linear-Perfluorooctanesulfonamide (linear-PFOSA)	498	18.828
43	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	631	19.239
44	Perfluorododecanoic acid (PFDoA)	613	19.476
45	Perfluorododecanesulfonic acid (PFDoS)	699	20.129
46	Perfluorotridecanoic acid (PFTrDA)	663	20.145
47	N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	616	20.512
48	N-methyl perfluorooctanesulfonamide (NMeFOSA)	512	20.591
49	Perfluorotetradecanoic acid (PFTeDA)	713	20.757
50	N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	630	21.092
51	N-ethyl perfluorooctanesulfonamide (NEtFOSA)	526	21.210

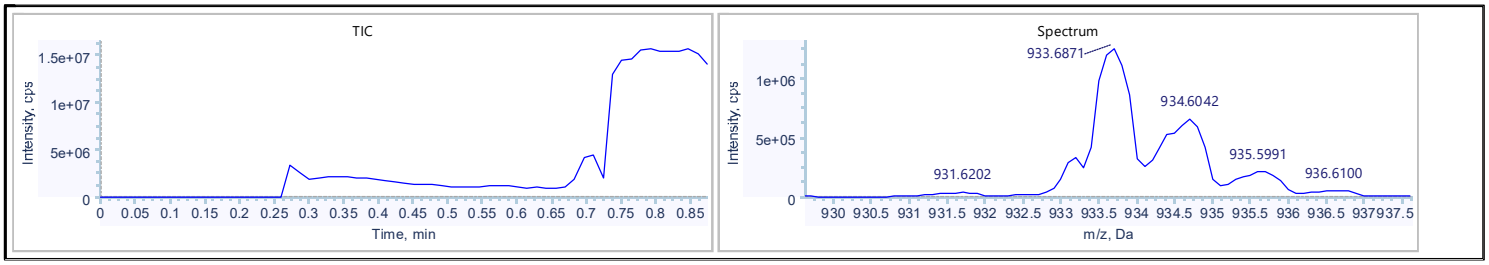
Instrument Verification Report

10/8/2024 7:32 AM

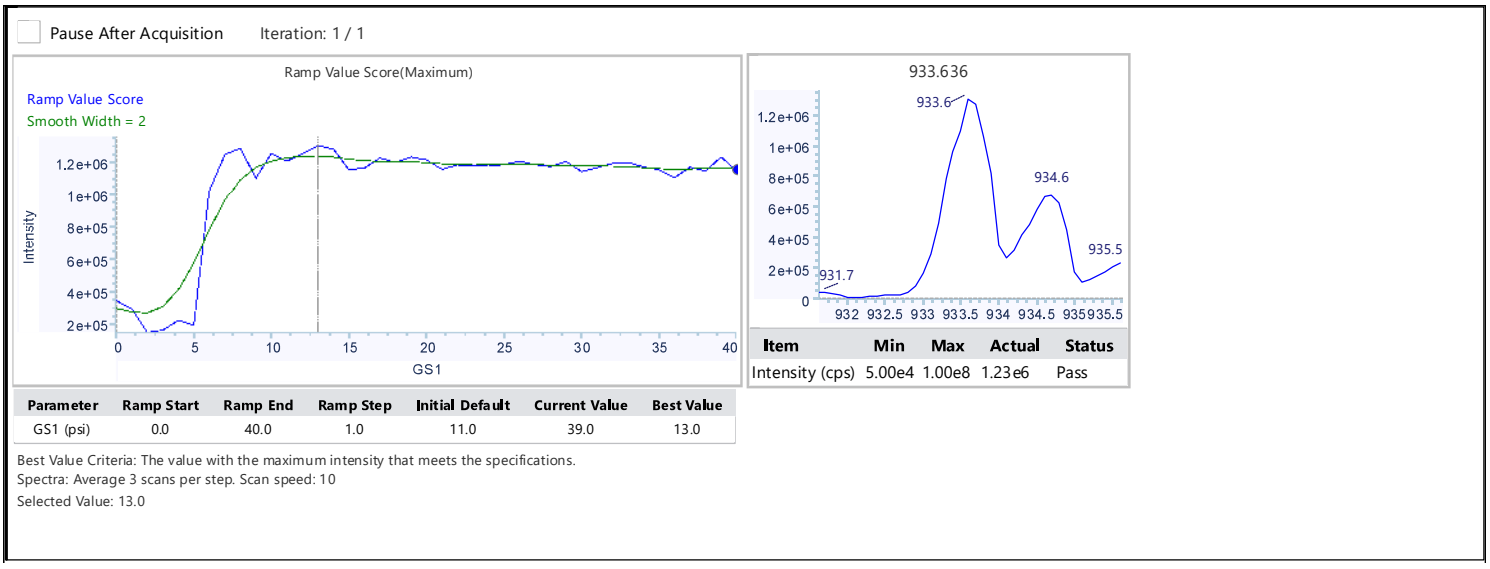
Instrument Name:	SCIEX Triple Quad 5500+	**Manufacturer:**	AB Sciex
Instrument Model:	TripleQuad5500+	**Target Instrument:**	TripleQuad5500+
Ion Source:	TurboIonSpray	**Optimization Set:**	5500+ MS Scan Verification
Serial Number:	EX239182307	**Doc Num Revision:**	TripleQuad5500+PickSetVerify Eng
User Name:	A2-LCMS09		

1. Negative Prerequisites

Step	Result	Details
Achieve Stable Spray Neg	Pass	



Step	Result	Details
Optimize Gas 1 Neg	Pass	Found best GS1 (psi) value of 13



Item	Min	Max	Actual	Status
Intensity (cps)	5.00e4	1.00e8	1.23e6	Pass

Parameter	Ramp Start	Ramp End	Ramp Step	Initial Default	Current Value	Best Value
GS1 (psi)	0.0	40.0	1.0	11.0	39.0	13.0

Best Value Criteria: The value with the maximum intensity that meets the specifications.
Spectra: Average 3 scans per step. Scan speed: 10
Selected Value: 13.0

2. Negative Q1 Unit Resolution

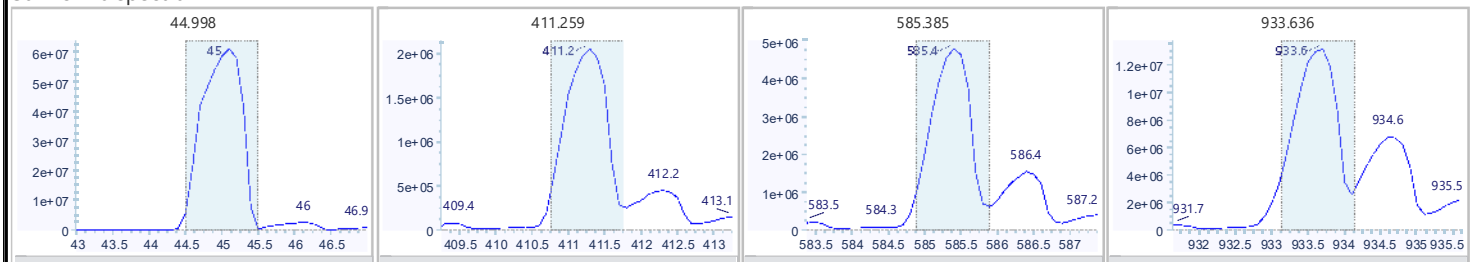
Step	Result	Details

Instrument Verification Report

Instrument Name:	SCIEX Triple Quad 5500+	**Manufacturer:**	AB Sciex
Instrument Model:	TripleQuad5500+	**Target Instrument:**	TripleQuad5500+
Ion Source:	TurboIonSpray	**Optimization Set:**	5500+ MS Scan Verification
Serial Number:	EX239182307	**Doc Num Revision:**	TripleQuad5500+PickSetVerify Eng
User Name:	A2-LCMS09		

Verify Q1 Negative 10 Da/sec — **Pass** — Data file:D:\SCIEX OS Data\Optimization\Optimization-2024-10-08-07-31-55

Sum of 10 spectra



Item	Min	Max	Actual	Status
Mass (Da)	44.898	45.098	45.0084	Pass
Width (Da)	0.60	0.80	0.69	Pass
Intensity (cps)	1.00e2	1.00e11	6.11e7	Pass

Item	Min	Max	Actual	Status
Mass (Da)	411.159	411.359	411.2461	Pass
Width (Da)	0.60	0.80	0.68	Pass
Intensity (cps)	1.00e2	1.00e11	2.05e6	Pass

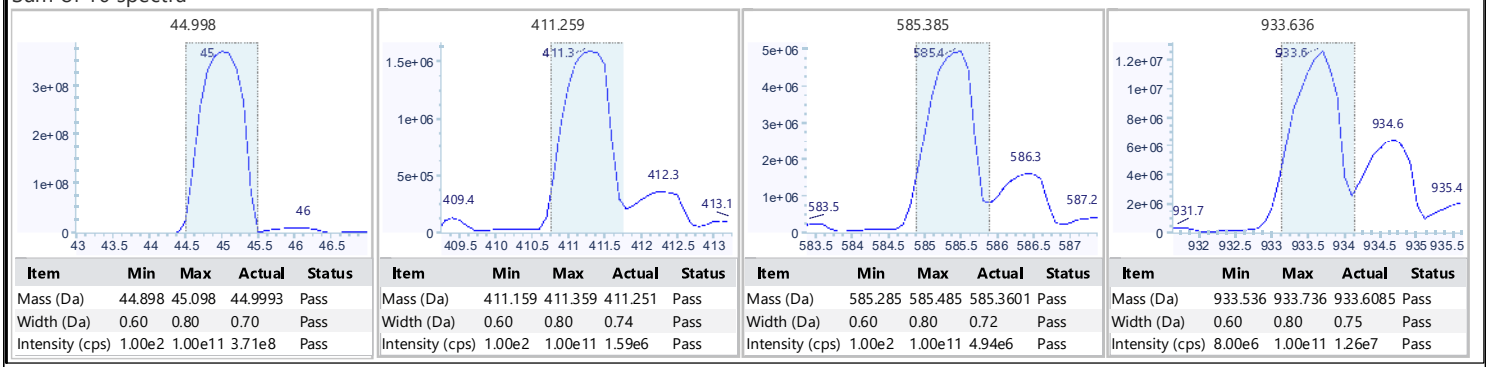
Item	Min	Max	Actual	Status
Mass (Da)	585.285	585.485	585.3663	Pass
Width (Da)	0.60	0.80	0.63	Pass
Intensity (cps)	1.00e2	1.00e11	4.78e6	Pass

Item	Min	Max	Actual	Status
Mass (Da)	933.536	933.736	933.6111	Pass
Width (Da)	0.60	0.80	0.70	Pass
Intensity (cps)	1.00e7	1.00e11	1.32e7	Pass

3. Negative Q3 Unit Resolution

Step	Result	Details
Verify Q3 Negative 10 Da/sec	**Pass**	Data file:D:\SCIEX OS Data\Optimization\Optimization-2024-10-08-07-31-55

Sum of 10 spectra



Item	Min	Max	Actual	Status
Mass (Da)	44.898	45.098	44.9993	Pass
Width (Da)	0.60	0.80	0.70	Pass
Intensity (cps)	1.00e2	1.00e11	3.71e8	Pass

Item	Min	Max	Actual	Status
Mass (Da)	411.159	411.359	411.251	Pass
Width (Da)	0.60	0.80	0.74	Pass
Intensity (cps)	1.00e2	1.00e11	1.59e6	Pass

Item	Min	Max	Actual	Status
Mass (Da)	585.285	585.485	585.3601	Pass
Width (Da)	0.60	0.80	0.72	Pass
Intensity (cps)	1.00e2	1.00e11	4.94e6	Pass

Item	Min	Max	Actual	Status
Mass (Da)	933.536	933.736	933.6085	Pass
Width (Da)	0.60	0.80	0.75	Pass
Intensity (cps)	8.00e6	1.00e11	1.26e7	Pass

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: LCMS09	**Calibration Date**	: 03/11/25 06:50
Lab File ID	: SCI09_250311_09	**Init. Calib. Date(s)**	: 03/03/25 03/03/25
Sample No	: WG2038851-1	**Init. Calib. Times**	: 14:41 15:53
Channel	:		

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	0.813	0.800	101.6	70-130
Perfluoropentanoic Acid (PFPeA)	0.399	0.400	99.8	70-130
Perfluorobutanesulfonic Acid (PFBS)	0.166	0.177	93.1	70-130
Perfluorohexanoic Acid (PFHxA)	0.209	0.200	104.4	70-130
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	0.770	0.750	102.7	70-130
Perfluoropentanesulfonic Acid (PFPeS)	0.179	0.188	95	70-130
Perfluoroheptanoic Acid (PFHpA)	0.178	0.200	89.1	70-130
Perfluorohexanesulfonic Acid (PFHxS)	0.165	0.183	90.7	70-130
Perfluorooctanoic Acid (PFOA)	0.205	0.200	102.6	70-130
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.751	0.760	98.7	70-130
Perfluoroheptanesulfonic Acid (PFHpS)	0.220	0.191	115.8	70-130
Perfluorononanoic Acid (PFNA)	0.237	0.200	118.6	70-130
Perfluorooctanesulfonic Acid (PFOS)	0.205	0.186	110.3	70-130
Perfluorodecanoic Acid (PFDA)	0.180	0.200	90	70-130
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.703	0.768	91.5	70-130
Perfluorononanesulfonic Acid (PFNS)	0.204	0.192	106.5	70-130
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.187	0.200	93.4	70-130
Perfluoroundecanoic Acid (PFUnA)	0.195	0.200	97.3	70-130
Perfluorodecanesulfonic Acid (PFDS)	0.212	0.193	110	70-130
Perfluorooctanesulfonamide (PFOSA)	0.199	0.200	99.5	70-130
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.242	0.200	120.9	70-130
Perfluorododecanoic Acid (PFDoA)	0.202	0.200	101.1	70-130
Perfluorotridecanoic Acid (PFTrDA)	0.260	0.200	130.1*	70-130
Perfluorotetradecanoic Acid (PFTeDA)	0.202	0.200	101.2	70-130
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	0.789	0.800	98.7	70-130
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	0.554	0.756	73.3	70-130
Perfluorododecanesulfonic Acid (PFDoS)	0.198	0.194	102.1	70-130
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	0.915	0.748	122.7	70-130
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	0.921	0.756	122.1	70-130
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	0.209	0.200	104.5	70-130
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	0.198	0.200	99.2	70-130
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	1.991	2.000	99.5	70-130
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1.994	2.000	99.7	70-130
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	0.372	0.400	93.1	70-130
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	0.413	0.400	103.3	70-130
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	0.389	0.356	109	70-130
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	0.404	0.400	101.1	70-130
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	1.025	1.000	102.6	70-130
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	5.275	5.000	105.5	70-130
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	5.570	5.000	111.4	70-130
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	10.087	10.000	100.9	70-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	5.066	5.000	101.3	70-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	2.413	2.330	103.6	70-130

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: LCMS09	**Calibration Date**	: 03/11/25 06:50		
Lab File ID	: SCI09_250311_09	**Init. Calib. Date(s)**	: 03/03/25	03/03/25	
Sample No	: WG2038851-1	**Init. Calib. Times**	: 14:41	15:53	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	4.085	4.690	87.1	70-130
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	2.449	2.500	97.9	70-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	3.069	2.500	122.8	70-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	2.450	2.370	103.4	70-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	2.704	2.500	108.2	70-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	4.404	4.755	92.5	70-130
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	1.143	1.250	91.4	70-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	2.445	2.395	101.9	70-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	1.450	1.250	116	70-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	4.554	4.800	94.9	70-130
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	4.942	5.000	98.8	70-130
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	1.412	1.250	113	70-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	3.019	2.500	120.7	70-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	4.824	5.000	96.5	70-130
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	1.399	1.250	112	70-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	1.655	1.250	132.4*	70-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	9.935	10.000	99.4	70-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	2.673	2.500	106.9	70-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	2.683	2.500	107.3	70-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	28.987	25.000	115.9	70-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	28.140	25.000	112.6	70-130
Perfluoro-[1,2-13C2]octanoic Acid (13C2-PFOA)	2.637	2.500	105.5	70-130
Perfluoro-n-[1,2-13C2]Hexanoic Acid (13C2-PFHxA)	2.818	2.500	112.7	70-130
Perfluoro-n-[1,2,3,4-13C4]Octanoic Acid (13C4-PFOA)	2.672	2.500	106.9	70-130
Perfluoro-n-[1,2,3,4-13C4]Octanesulfonic Acid (13C4-PFOS)	2.486	2.395	103.6	70-130
Perfluoro-n-[1,2-13C2]Decanoic Acid (13C2-PFDA)	1.275	1.250	102	70-130
Perfluoro-n-[2,3,4-13C3]Butanoic Acid (13C3-PFBA)	6.022	5.000	120.4	70-130
Perfluoro-n-[1,2,3,4,5-13C5]Nonanoic Acid (13C5-PFNA)	1.365	1.250	109.2	70-130
Perfluoro-1-hexane[18O2]Sulfonic Acid (18O2-PFHxS)	2.700	2.370	113.9	70-130
1H,1H,2H,2H-Perfluoro[1,2-13C2D4]Hexanesulfonic Acid (13C2D4-4:2FTS)	4.841	5.000	96.8	70-130

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: LCMS09	**Calibration Date**	: 03/11/25 12:02		
Lab File ID	: SCI09_250311_41	**Init. Calib. Date(s)**	: 03/03/25	03/03/25	
Sample No	: WG2038851-7	**Init. Calib. Times**	: 14:41	15:53	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	19.425	20.000	97.1	70-130
Perfluoropentanoic Acid (PFPeA)	9.355	10.000	93.6	70-130
Perfluorobutanesulfonic Acid (PFBS)	4.057	4.435	91.4	70-130
Perfluorohexanoic Acid (PFHxA)	4.762	5.000	95.3	70-130
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	17.893	18.750	95.7	70-130
Perfluoropentanesulfonic Acid (PFPeS)	4.311	4.705	91.7	70-130
Perfluoroheptanoic Acid (PFHpA)	4.614	5.000	92.3	70-130
Perfluorohexanesulfonic Acid (PFHxS)	4.171	4.570	91.5	70-130
Perfluorooctanoic Acid (PFOA)	5.201	5.000	104	70-130
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	18.006	19.000	94.8	70-130
Perfluoroheptanesulfonic Acid (PFHpS)	4.660	4.765	97.9	70-130
Perfluorononanoic Acid (PFNA)	4.592	5.000	91.8	70-130
Perfluorooctanesulfonic Acid (PFOS)	4.360	4.640	94	70-130
Perfluorodecanoic Acid (PFDA)	4.606	5.000	92.1	70-130
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	19.046	19.200	99.2	70-130
Perfluorononanesulfonic Acid (PFNS)	4.957	4.810	103.3	70-130
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	4.351	5.000	87	70-130
Perfluoroundecanoic Acid (PFUnA)	4.626	5.000	92.5	70-130
Perfluorodecanesulfonic Acid (PFDS)	5.450	4.825	113.1	70-130
Perfluorooctanesulfonamide (PFOSA)	4.922	5.000	98.4	70-130
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	4.707	5.000	94.1	70-130
Perfluorododecanoic Acid (PFDoA)	4.900	5.000	98	70-130
Perfluorotridecanoic Acid (PFTrDA)	5.391	5.000	107.8	70-130
Perfluorotetradecanoic Acid (PFTeDA)	4.772	5.000	95.4	70-130
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	19.025	20.000	95.1	70-130
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	17.453	18.900	92.3	70-130
Perfluorododecanesulfonic Acid (PFDoS)	5.470	4.850	113	70-130
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	19.256	18.700	103	70-130
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	21.165	18.900	112	70-130
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	4.810	5.000	96.2	70-130
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4.526	5.000	90.5	70-130
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	48.584	50.000	97.2	70-130
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	45.892	50.000	91.8	70-130
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	9.482	10.000	94.8	70-130
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	9.571	10.000	95.7	70-130
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	8.702	8.900	97.6	70-130
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	10.256	10.000	102.6	70-130
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	25.243	25.000	101	70-130
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	123.143	125.000	98.5	70-130
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	127.739	125.000	102.2	70-130
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	10.012	10.000	100.1	70-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	5.013	5.000	100.3	70-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	2.402	2.330	103.1	70-130

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: LCMS09	**Calibration Date**	: 03/11/25 12:02		
Lab File ID	: SCI09_250311_41	**Init. Calib. Date(s)**	: 03/03/25	03/03/25	
Sample No	: WG2038851-7	**Init. Calib. Times**	: 14:41	15:53	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	4.368	9.380	93.1	70-130
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	2.516	2.500	100.7	70-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	2.646	2.500	105.9	70-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	2.511	2.370	105.9	70-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	2.246	2.500	89.9	70-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	4.677	9.510	98.2	70-130
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	1.310	1.250	104.8	70-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	2.327	2.395	96.9	70-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	1.380	1.250	110.4	70-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	5.369	9.600	111.9	70-130
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	6.266	5.000	125.3	70-130
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	1.422	1.250	113.8	70-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	2.772	2.500	110.9	70-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	6.080	5.000	121.6	70-130
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	1.469	1.250	117.5	70-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	1.635	1.250	130.8*	70-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	10.108	10.000	101.1	70-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	2.576	2.500	103	70-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	2.683	2.500	107.3	70-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	26.596	25.000	106.4	70-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	27.184	25.000	108.7	70-130
Perfluoro-[1,2-13C2]octanoic Acid (13C2-PFOA)	2.650	2.500	106	70-130
Perfluoro-n-[1,2-13C2]Hexanoic Acid (13C2-PFHxA)	2.873	2.500	114.9	70-130
Perfluoro-n-[1,2,3,4-13C4]Octanoic Acid (13C4-PFOA)	2.862	2.500	114.5	70-130
Perfluoro-n-[1,2,3,4-13C4]Octanesulfonic Acid (13C4-PFOS)	2.863	2.395	119.3	70-130
Perfluoro-n-[1,2-13C2]Decanoic Acid (13C2-PFDA)	1.428	1.250	114.3	70-130
Perfluoro-n-[2,3,4-13C3]Butanoic Acid (13C3-PFBA)	5.673	5.000	113.5	70-130
Perfluoro-n-[1,2,3,4,5-13C5]Nonanoic Acid (13C5-PFNA)	1.377	1.250	110.2	70-130
Perfluoro-1-hexane[18O2]Sulfonic Acid (18O2-PFHxS)	2.698	2.370	113.8	70-130
1H,1H,2H,2H-Perfluoro[1,2-13C2D4]Hexanesulfonic Acid (13C2D4-4:2FTS)	5.308	5.000	106.2	70-130

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: LCMS09	**Calibration Date**	: 03/11/25 14:50		
Lab File ID	: SCI09_250311_59	**Init. Calib. Date(s)**	: 03/03/25	03/03/25	
Sample No	: WG2038851-9	**Init. Calib. Times**	: 14:41	15:53	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	19.348	20.000	96.7	70-130
Perfluoropentanoic Acid (PFPeA)	9.398	10.000	94	70-130
Perfluorobutanesulfonic Acid (PFBS)	4.409	4.435	99.3	70-130
Perfluorohexanoic Acid (PFHxA)	4.986	5.000	99.7	70-130
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	19.537	18.750	104.5	70-130
Perfluoropentanesulfonic Acid (PFPeS)	4.371	4.705	93	70-130
Perfluoroheptanoic Acid (PFHpA)	4.621	5.000	92.4	70-130
Perfluorohexanesulfonic Acid (PFHxS)	4.168	4.570	91.4	70-130
Perfluorooctanoic Acid (PFOA)	4.616	5.000	92.3	70-130
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	18.069	19.000	95.1	70-130
Perfluoroheptanesulfonic Acid (PFHpS)	4.779	4.765	100.4	70-130
Perfluorononanoic Acid (PFNA)	4.659	5.000	93.2	70-130
Perfluorooctanesulfonic Acid (PFOS)	4.381	4.640	94.4	70-130
Perfluorodecanoic Acid (PFDA)	4.734	5.000	94.7	70-130
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	19.381	19.200	100.9	70-130
Perfluorononanesulfonic Acid (PFNS)	4.965	4.810	103.4	70-130
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	4.512	5.000	90.3	70-130
Perfluoroundecanoic Acid (PFUnA)	4.911	5.000	98.2	70-130
Perfluorodecanesulfonic Acid (PFDS)	5.300	4.825	110	70-130
Perfluorooctanesulfonamide (PFOSA)	4.924	5.000	98.5	70-130
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	4.598	5.000	92	70-130
Perfluorododecanoic Acid (PFDoA)	4.942	5.000	98.8	70-130
Perfluorotridecanoic Acid (PFTrDA)	5.508	5.000	110.2	70-130
Perfluorotetradecanoic Acid (PFTeDA)	4.753	5.000	95.1	70-130
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	18.454	20.000	92.3	70-130
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	19.037	18.900	100.7	70-130
Perfluorododecanesulfonic Acid (PFDoS)	5.480	4.850	113.2	70-130
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	19.141	18.700	102.4	70-130
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	20.809	18.900	110.1	70-130
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	4.832	5.000	96.6	70-130
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4.646	5.000	92.9	70-130
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	48.353	50.000	96.7	70-130
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	46.264	50.000	92.5	70-130
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	9.641	10.000	96.4	70-130
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	9.963	10.000	99.6	70-130
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	7.674	8.900	86	70-130
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	9.367	10.000	93.7	70-130
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	25.715	25.000	102.9	70-130
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	111.582	125.000	89.3	70-130
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	124.557	125.000	99.7	70-130
Perfluoro-n-[13C4]Butanoic Acid (13C4-PFBA)	10.254	10.000	102.5	70-130
Perfluoro-n-[13C5]Pentanoic Acid (13C5-PFPeA)	4.838	5.000	96.8	70-130
Perfluoro-1-[2,3,4-13C3]Butanesulfonic Acid (13C3-PFBS)	2.389	2.330	102.6	70-130

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512271		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: LCMS09	**Calibration Date**	: 03/11/25 14:50		
Lab File ID	: SCI09_250311_59	**Init. Calib. Date(s)**	: 03/03/25	03/03/25	
Sample No	: WG2038851-9	**Init. Calib. Times**	: 14:41	15:53	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Hexanesulfonic Acid (13C2-4:2FTS)	4.745	9.380	101.2	70-130
Perfluoro-n-[1,2,3,4,6-13C5]Hexanoic Acid (13C5-PFHxA)	2.546	2.500	101.8	70-130
Perfluoro-n-[1,2,3,4-13C4]Heptanoic Acid (13C4-PFHpA)	2.569	2.500	102.7	70-130
Perfluoro-1-[1,2,3-13C3]Hexanesulfonic Acid (13C3-PFHxS)	2.584	2.370	109	70-130
Perfluoro-n-[13C8]Octanoic Acid (13C8-PFOA)	2.417	2.500	96.7	70-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Octanesulfonic Acid (13C2-6:2FTS)	5.339	9.510	112.2	70-130
Perfluoro-n-[13C9]Nonanoic Acid (13C9-PFNA)	1.280	1.250	102.4	70-130
Perfluoro-1-[13C8]Octanesulfonic Acid (13C8-PFOS)	2.559	2.395	106.6	70-130
Perfluoro-n-[1,2,3,4,5,6-13C6]Decanoic Acid (13C6-PFDA)	1.358	1.250	108.6	70-130
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2]Decanesulfonic Acid (13C2-8:2FTS)	5.449	9.600	113.5	70-130
N-Methyl-d3-perfluoro-1-octanesulfonamidoacetic Acid (D3-NMeFOSAA)	7.076	5.000	141.5*	70-130
Perfluoro-n-[1,2,3,4,5,6,7-13C7]Undecanoic Acid (13C7-PFUnA)	1.365	1.250	109.2	70-130
Perfluoro-1-[13C8]Octanesulfonamide (13C8-PFOSA)	2.904	2.500	116.1	70-130
N-Ethyl-d5-perfluoro-1-octanesulfonamidoacetic Acid (D5-NEtFOSAA)	6.768	5.000	135.4*	70-130
Perfluoro-n-[1,2-13C2]Dodecanoic Acid (13C2-PFDoA)	1.396	1.250	111.7	70-130
Perfluoro-n-[1,2-13C2]Tetradecanoic Acid (13C2-PFTeDA)	1.525	1.250	122	70-130
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	9.964	10.000	99.6	70-130
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (D3-NMeFOSA)	2.858	2.500	114.3	70-130
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (D5-NEtFOSA)	2.957	2.500	118.3	70-130
N-Methyl-d7-Perfluorooctanesulfonamidoethanol (D7-NMeFOSE)	29.189	25.000	116.8	70-130
N-Ethyl-d9-Perfluorooctanesulfonamidoethanol (D9-NEtFOSE)	29.536	25.000	118.1	70-130
Perfluoro-[1,2-13C2]octanoic Acid (13C2-PFOA)	3.009	2.500	120.4	70-130
Perfluoro-n-[1,2-13C2]Hexanoic Acid (13C2-PFHxA)	3.120	2.500	124.8	70-130
Perfluoro-n-[1,2,3,4-13C4]Octanoic Acid (13C4-PFOA)	3.092	2.500	123.7	70-130
Perfluoro-n-[1,2,3,4-13C4]Octanesulfonic Acid (13C4-PFOS)	2.591	2.395	108	70-130
Perfluoro-n-[1,2-13C2]Decanoic Acid (13C2-PFDA)	1.421	1.250	113.7	70-130
Perfluoro-n-[2,3,4-13C3]Butanoic Acid (13C3-PFBA)	5.686	5.000	113.7	70-130
Perfluoro-n-[1,2,3,4,5-13C5]Nonanoic Acid (13C5-PFNA)	1.496	1.250	119.7	70-130
Perfluoro-1-hexane[18O2]Sulfonic Acid (18O2-PFHxS)	2.614	2.370	110.3	70-130
1H,1H,2H,2H-Perfluoro[1,2-13C2D4]Hexanesulfonic Acid (13C2D4-4:2FTS)	5.710	5.000	114.2	70-130

* Value outside of QC limits.

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/11/2025 7:33:31 AM

Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

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Name: SCI09_250311_09.wiff2
Date & Time: 2025-03-11T06:50:38
Description: WG2038851,WG2030000,ICAL22044,1633LOW
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.58	213.0 / 169.0	144556	M4	0.813	N/A	N/A	N/A	101.6
2	PFPeA	2706-90-3	1.18	263.0 / 219.0	64035		0.399	0.009	N/A	N/A	99.8
3	PFPeA_2	2706-90-3	1.18	263.0 / 68.9	583	M2	0.518	0.009	N/A	N/A	129.5
4	PFHxA	307-24-4	1.94	313.0 / 269.0	40601		0.209	0.101	0.081	Pass	104.4
5	PFHxA_2	307-24-4	1.94	313.0 / 119.0	4098		0.248	0.101	0.081	Pass	123.9
6	PFHpA	375-85-9	2.52	363.1 / 319.0	47498		0.178	0.359	0.373	Pass	89.1
7	PFHpA_2	375-85-9	2.52	363.1 / 169.0	17055		0.162	0.359	0.373	Pass	81.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	3.00	413.1 / 369.1	47954	M5	0.205	0.399	0.424	Pass	102.6
9	PFOA_2	335-67-1	3.00	413.1 / 169.0	19126	M5	0.193	0.399	0.424	Pass	96.7
10	PFNA	375-95-1	3.43	462.8 / 418.9	32832	M5	0.237	0.487	0.493	Pass	118.6
11	PFNA_2	375-95-1	3.44	462.8 / 219.0	16005	M5	0.237	0.487	0.493	Pass	118.7
12	PFDA	335-76-2	3.85	513.1 / 469.1	42897		0.180	0.181	0.188	Pass	90.0
13	PFDA_2	335-76-2	3.85	513.1 / 219.0	7744		0.177	0.181	0.188	Pass	88.3
14	PFUnA	2058-94-8	4.25	563.1 / 519.1	47725		0.195	0.140	0.146	Pass	97.3
15	PFUnA_2	2058-94-8	4.25	563.1 / 269.0	6660		0.189	0.140	0.146	Pass	94.5
16	PFDoA	307-55-1	4.63	613.1 / 569.1	55156		0.202	0.138	0.142	Pass	101.1
17	PFDoA_2	307-55-1	4.63	613.1 / 319.0	7608		0.202	0.138	0.142	Pass	101.2
18	PFTrDA	72629-94-8	5.01	663.1 / 619.1	62338		0.260	0.162	0.152	Pass	130.1
19	PFTrDA_2	72629-94-8	5.01	663.1 / 169.0	10109		0.275	0.162	0.152	Pass	137.3
20	PFTeDA	376-06-7	5.37	713.1 / 669.1	50894		0.202	0.165	0.154	Pass	101.2
21	PFTeDA_2	376-06-7	5.37	713.1 / 169.0	8402		0.205	0.165	0.154	Pass	102.3
22	PFBS	375-73-5	1.94	299.1 / 80.1	31009		0.166	0.348	0.374	Pass	93.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.94	299.1 / 99.1	10778		0.165	0.348	0.374	Pass	87.9
24	PFPeS	2706-91-4	2.58	349.1 / 80.1	31659		0.179	0.308	0.314	Pass	95.0
25	PFPeS_2	2706-91-4	2.58	349.1 / 99.1	9745		0.175	0.308	0.314	Pass	93.1
26	PFHxS	355-46-4	3.10	399.1 / 80.1	26732	M5	0.165	0.300	0.306	Pass	90.7
27	PFHxS_2	355-46-4	3.10	399.1 / 99.1	8011	M5	0.171	0.300	0.306	Pass	93.9
28	PFHpS	375-92-8	3.56	449.1 / 80.1	31312		0.220	0.283	0.316	Pass	115.8
29	PFHpS_2	375-92-8	3.57	449.1 / 99.1	8869		0.204	0.283	0.316	Pass	107.2
30	PFOS	1763-23-1	4.00	499.1 / 80.1	35537	M5	0.205	0.251	0.244	Pass	110.3
31	PFOS_2	1763-23-1	3.99	499.1 / 99.1	8920	M5	0.205	0.251	0.244	Pass	110.2
32	PFNS	68259-12-1	4.40	549.1 / 80.1	24106		0.204	0.266	0.294	Pass	106.5
33	PFNS_2	68259-12-1	4.40	549.1 / 99.1	6414		0.190	0.266	0.294	Pass	99.1
34	PFDS	335-77-3	4.79	599.1 / 80.1	24586		0.212	0.292	0.290	Pass	110.0
35	PFDS_2	335-77-3	4.79	599.1 / 99.1	7176		0.219	0.292	0.290	Pass	113.7
36	PFDoS	79780-39-5	5.53	699.2 / 80.1	20912		0.198	0.248	0.256	Pass	102.1
37	PFDoS_2	79780-39-5	5.53	699.2 / 99.1	5192		0.191	0.248	0.256	Pass	98.4

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.73	327.1 / 307.1	25891		0.770	0.644	0.650	Pass	102.7
39	4:2FTS_2	757124-72-4	1.73	327.1 / 81.1	16669		0.768	0.644	0.650	Pass	102.4
40	6:2FTS	27619-97-2	2.82	427.2 / 407.2	24149		0.751	0.620	0.620	Pass	98.7
41	6:2FTS_2	27619-97-2	2.82	427.2 / 81.1	14984		0.727	0.620	0.620	Pass	95.6
42	8:2FTS	39108-34-4	3.67	527.2 / 507.2	17963		0.703	0.746	0.676	Pass	91.5
43	8:2FTS_2	39108-34-4	3.67	527.2 / 81.1	13406		0.762	0.746	0.676	Pass	99.2
44	PFOSA	754-91-6	5.23	498.1 / 78.1	45401	M5	0.199	0.025	0.026	Pass	99.5
45	PFOSA_2	754-91-6	5.19	498.1 / 478.0	1131	M5	0.192	0.025	0.026	Pass	96.0
46	NMeFOSA	31506-32-8	5.96	512.2 / 219.0	10664	M5	0.209	1.403	1.377	Pass	104.5
47	NMeFOSA_2	31506-32-8	5.91	512.2 / 169.0	14962	M5	0.211	1.403	1.377	Pass	105.5
48	NEtFOSA	4151-50-2	6.25	526.2 / 219.0	10046	M5	0.198	1.186	1.292	Pass	99.2
49	NEtFOSA_2	4151-50-2	6.21	526.2 / 169.0	11911	M5	0.188	1.186	1.292	Pass	94.3
50	NMeFOSAA	2355-31-9	3.98	570.2 / 419.1	4870	M5	0.187	0.769	0.697	Pass	93.4
51	NMeFOSAA_2	2355-31-9	3.97	570.2 / 483.0	3747	M5	0.200	0.769	0.697	Pass	100.0
52	NEtFOSAA	2991-50-6	4.19	584.2 / 419.1	5983	M5	0.242	0.511	0.557	Pass	120.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.18	584.2 / 526.2	3058	M5	0.224	0.511	0.557	Pass	112.1
54	NMeFOSE	24448-09-7	5.82	616.1 / 58.9	160213	M5	1.991	N/A	N/A	N/A	99.5
55	NEtFOSE	1691-99-2	6.12	630.0 / 58.9	217871	M5	1.994	N/A	N/A	N/A	99.7
56	HFPO-DA	13252-13-6	2.15	285.0 / 169.0	130354		0.789	0.606	0.501	Pass	98.7
57	HFPO-DA_2	13252-13-6	2.15	285.0 / 184.9	79001		0.907	0.606	0.501	Pass	113.4
58	ADONA	919005-14-4	2.70	376.9 / 251.0	217829		0.554	0.773	0.691	Pass	73.3
59	ADONA_2	919005-14-4	2.69	376.9 / 84.8	168377		0.647	0.773	0.691	Pass	85.6
60	9Cl-PF3ONS	756426-58-1	4.28	530.8 / 351.1	270088		0.915	0.309	0.332	Pass	122.7
61	9Cl-PF3ONS_2	756426-58-1	4.28	532.8 / 353.0	83565		0.852	0.309	0.332	Pass	114.2
62	11Cl-PF3OUdS	763051-92-9	5.05	630.9 / 451.0	229809		0.921	0.312	0.322	Pass	122.1
63	11Cl-PF3OUdS_2	763051-92-9	5.05	632.9 / 452.9	71771		0.896	0.312	0.322	Pass	118.8
64	3:3FTCA	356-02-5	1.59	241.1 / 177.1	12702		1.025	1.021	1.010	Pass	102.6
65	3:3FTCA_2	356-02-5	1.59	241.1 / 117.0	12972		0.965	1.021	1.010	Pass	96.5
66	5:3FTCA	914637-49-3	3.04	341.1 / 237.1	256561		5.275	1.040	1.017	Pass	105.5
67	5:3FTCA_2	914637-49-3	3.04	341.1 / 217.0	266848		5.445	1.040	1.017	Pass	108.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.06	441.1 / 316.9	209295		5.570	1.381	1.343	Pass	111.4
69	7:3FTCA_2	812-70-4	4.06	441.1 / 337.1	288999		5.818	1.381	1.343	Pass	116.4
70	PFEESA	113507-82-7	2.24	315.1 / 135.0	196746		0.389	0.075	0.081	Pass	109.0
71	PFEESA_2	113507-82-7	2.24	315.1 / 82.9	14821		0.356	0.075	0.081	Pass	99.9
72	PFMPA	377-73-1	0.74	229.0 / 85.0	69222		0.372	N/A	N/A	N/A	93.1
73	PFMBA	863090-89-5	1.45	279.0 / 85.0	75835		0.413	N/A	N/A	N/A	103.3
74	NFDHA	151772-58-6	1.86	295.0 / 201.0	53503		0.404	0.795	0.681	Pass	101.1
75	NFDHA_2	151772-58-6	1.86	295.0 / 84.9	42537		0.454	0.795	0.681	Pass	113.6
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	1.72	333.2 / 312.1	145163		4.841	N/A	N/A	N/A	96.8
79	13C2-PFOA	Surr	2.99	415.0 / 370.0	370695		2.637	N/A	N/A	N/A	105.5

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.58	217.0 / 172.0	1989600		10.087	NA	NA	NA	100.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.18	268.0 / 223.0	835752		5.066	NA	NA	NA	101.3
	13C5-PFHxA	EIS	1.93	318.0 / 273.0	379756		2.449	NA	NA	NA	97.9
	13C4-PFHpA	EIS	2.51	367.0 / 322.0	459139		3.069	NA	NA	NA	122.8
	13C8-PFOA	EIS	2.99	420.8 / 376.0	683324		2.704	NA	NA	NA	108.2
	13C9-PFNA	EIS	3.43	472.0 / 427.0	256640		1.143	NA	NA	NA	91.4
	13C6-PFDA	EIS	3.85	519.0 / 474.0	336840		1.450	NA	NA	NA	116.0
	13C7-PFUnA	EIS	4.24	570.0 / 525.0	362038		1.412	NA	NA	NA	113.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.63	615.1 / 570.0	360835		1.399	NA	NA	NA	112.0
	13C2-PFTeDA	EIS	5.37	715.1 / 670.1	276710		1.655	NA	NA	NA	132.4
	13C3-PFBS	EIS	1.93	302.1 / 80.1	410350		2.413	NA	NA	NA	103.6
	13C3-PFHxS	EIS	3.10	402.1 / 80.1	370391		2.450	NA	NA	NA	103.4
	13C8-PFOS	EIS	3.99	507.1 / 80.1	363266		2.445	NA	NA	NA	101.9
	13C2-4:2FTS	EIS	1.73	329.1 / 81.1	102460		4.085	NA	NA	NA	87.1
	13C2-6:2FTS	EIS	2.81	429.2 / 81.1	95107		4.404	NA	NA	NA	92.5
	13C2-8:2FTS	EIS	3.66	529.2 / 81.1	92232		4.554	NA	NA	NA	94.9

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.22	506.1 / 78.1	712086		3.019	NA	NA	NA	120.7
d3-NMeFOSA	EIS	5.95	515.2 / 219.0	113858		2.673	NA	NA	NA	106.9
d5-NEtFOSA	EIS	6.23	531.2 / 219.0	103923		2.683	NA	NA	NA	107.3
d3-NMeFOSAA	EIS	3.97	573.2 / 419.1	143404		4.942	NA	NA	NA	98.8
d5-NEtFOSAA	EIS	4.18	589.3 / 419.1	114157		4.824	NA	NA	NA	96.5
d7-NMeFOSE	EIS	5.80	623.2 / 58.9	888147		28.987	NA	NA	NA	115.9
d9-NEtFOSE	EIS	6.09	639.2 / 58.9	1156572		28.140	NA	NA	NA	112.6

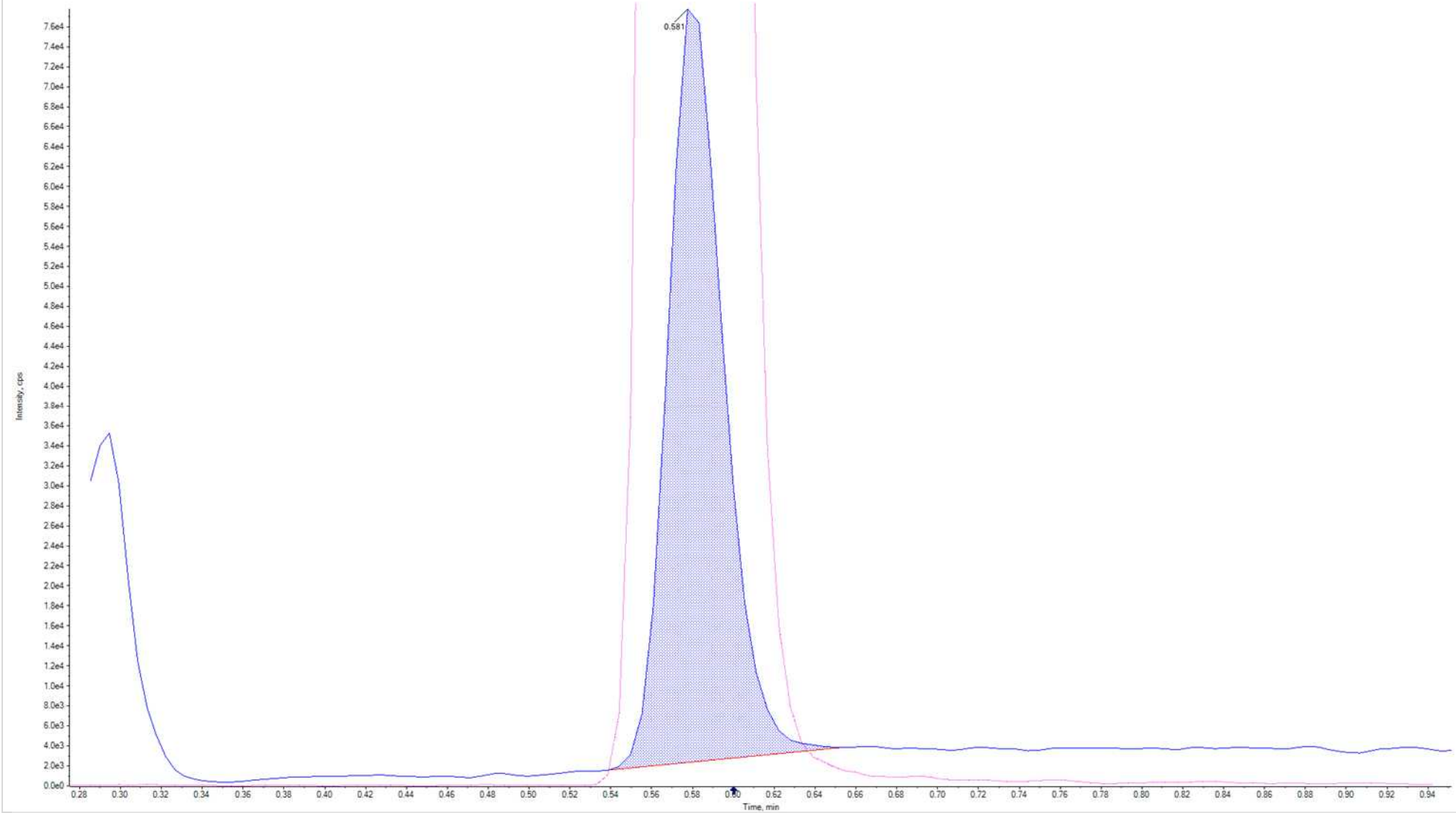
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	13C3-HFPO-DA	EIS	2.15	287.0 / 169.0	1629816		9.935	NA	NA	NA	99.4
	13C3-PFBA	NIS	0.58	216.0 / 172.0	872781		6.022	NA	NA	NA	120.4
	13C2-PFHxA	NIS	1.93	315.0 / 270.0	456693		2.818	NA	NA	NA	112.7
	13C4-PFOA	NIS	2.99	417.0 / 372.0	384078		2.672	NA	NA	NA	106.9
	13C5-PFNA	NIS	3.43	468.0 / 423.0	281286		1.365	NA	NA	NA	109.2
	13C2-PFDA	NIS	3.84	515.1 / 470.1	271061		1.275	NA	NA	NA	102.0
	18O2-PFHxS	NIS	3.10	403.1 / 84.1	317885		2.700	NA	NA	NA	113.9
	13C4-PFOS	NIS	3.99	503.1 / 80.1	298919		2.486	NA	NA	NA	103.6

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Alpha Analytical LLC
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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

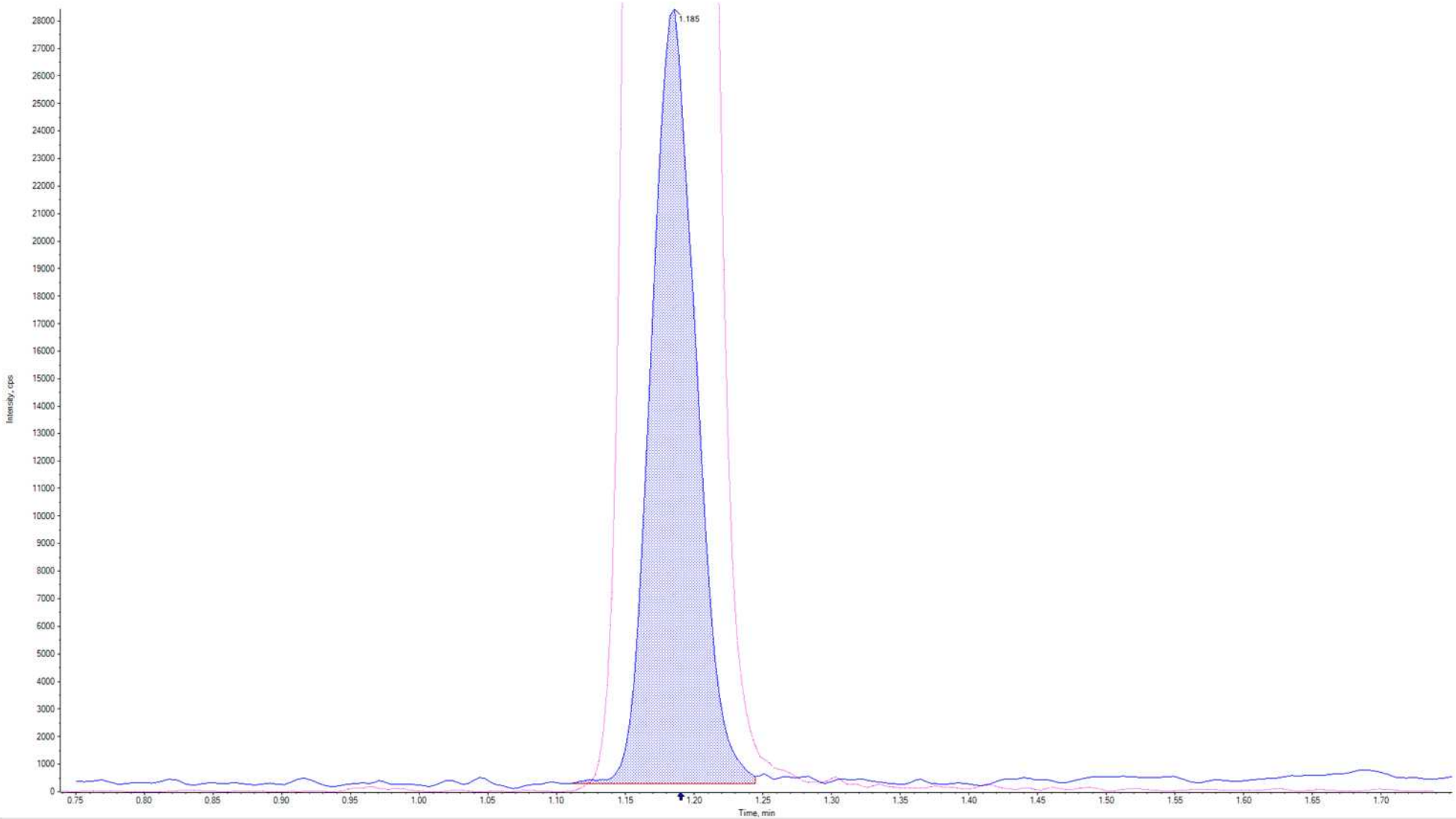
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PFBA
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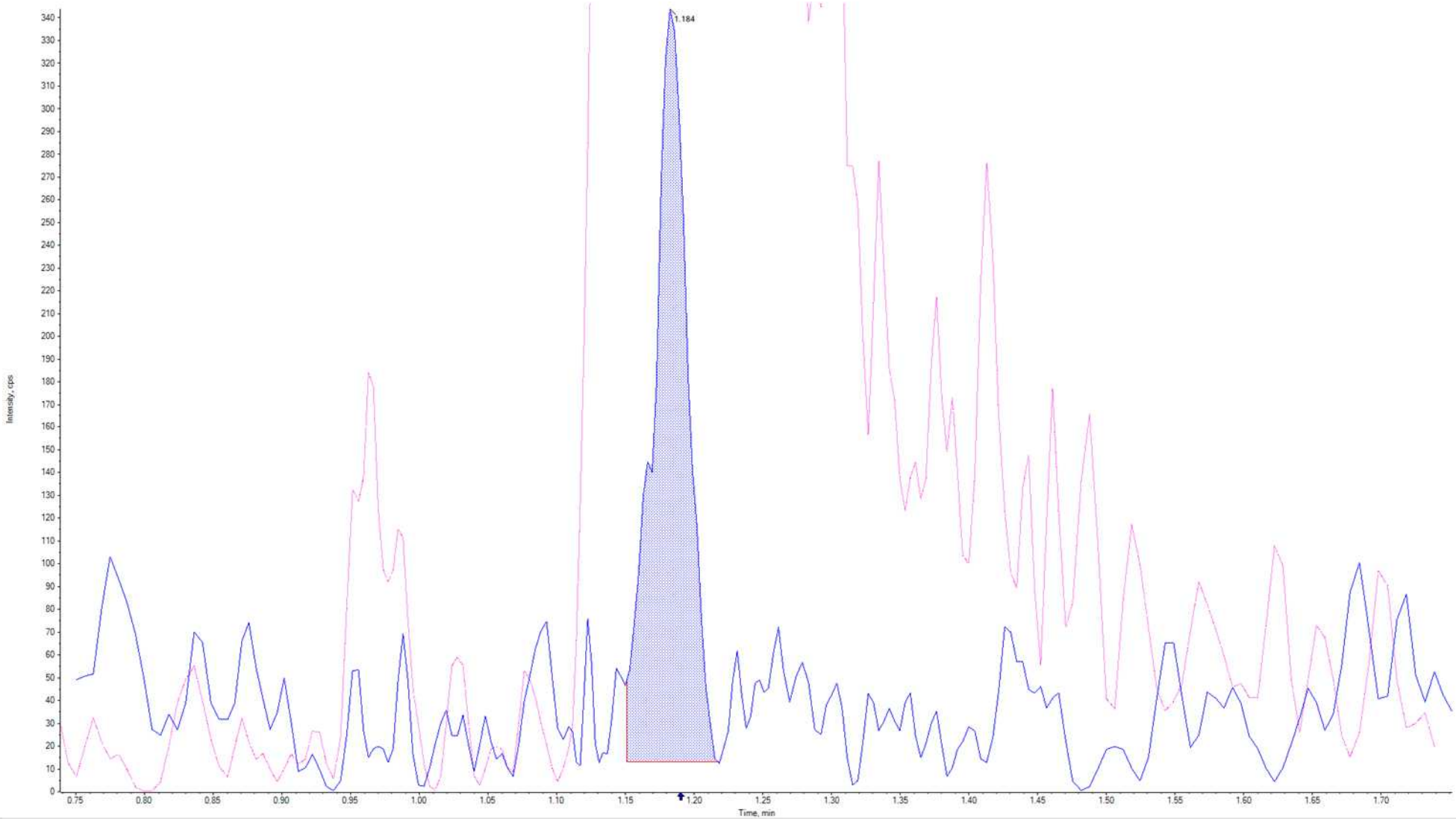
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PFPeA
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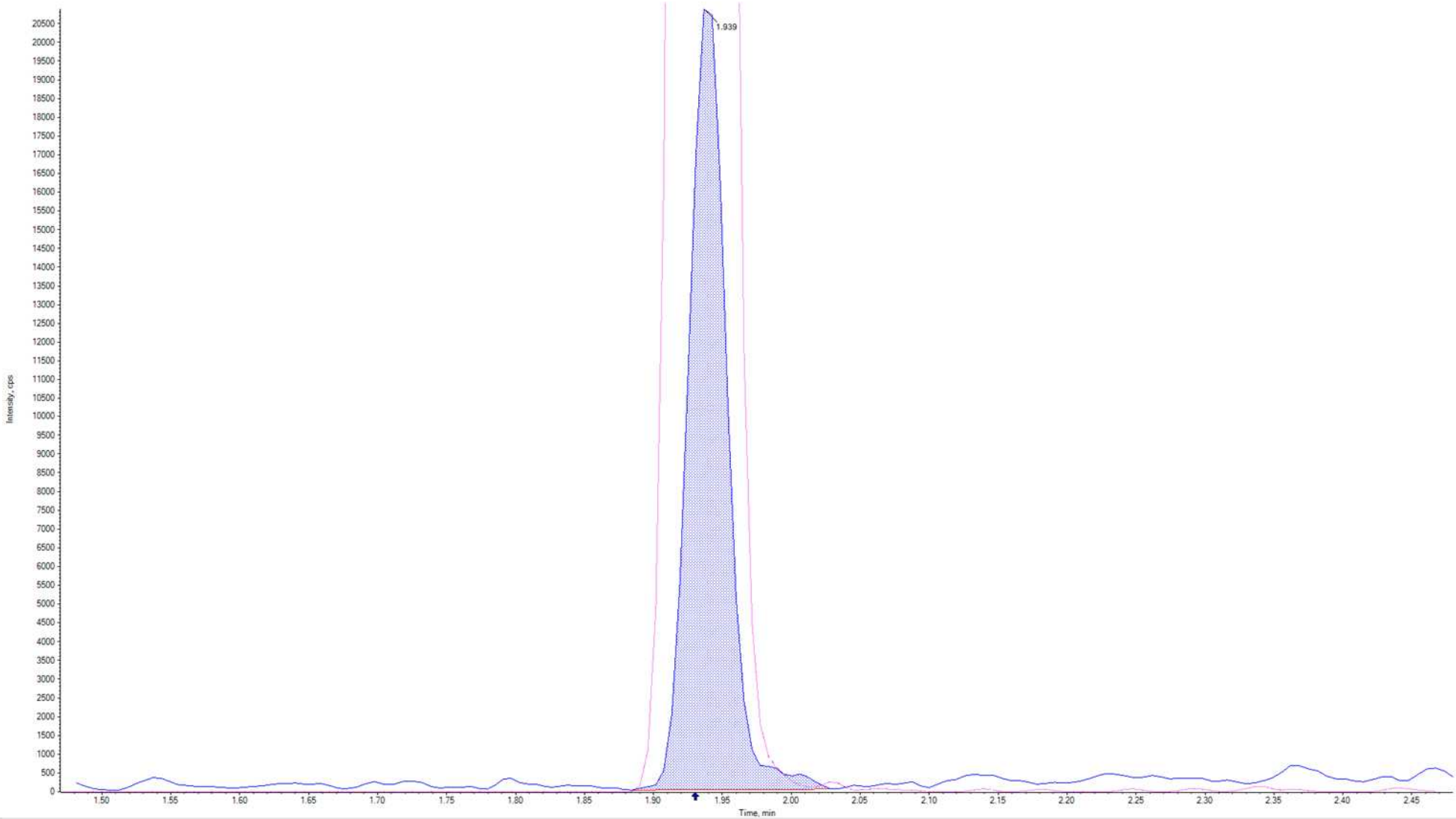
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PFPeA_2
Sample: WG2038851-1,1633LOW S/N:19.9 Points Across peak:22



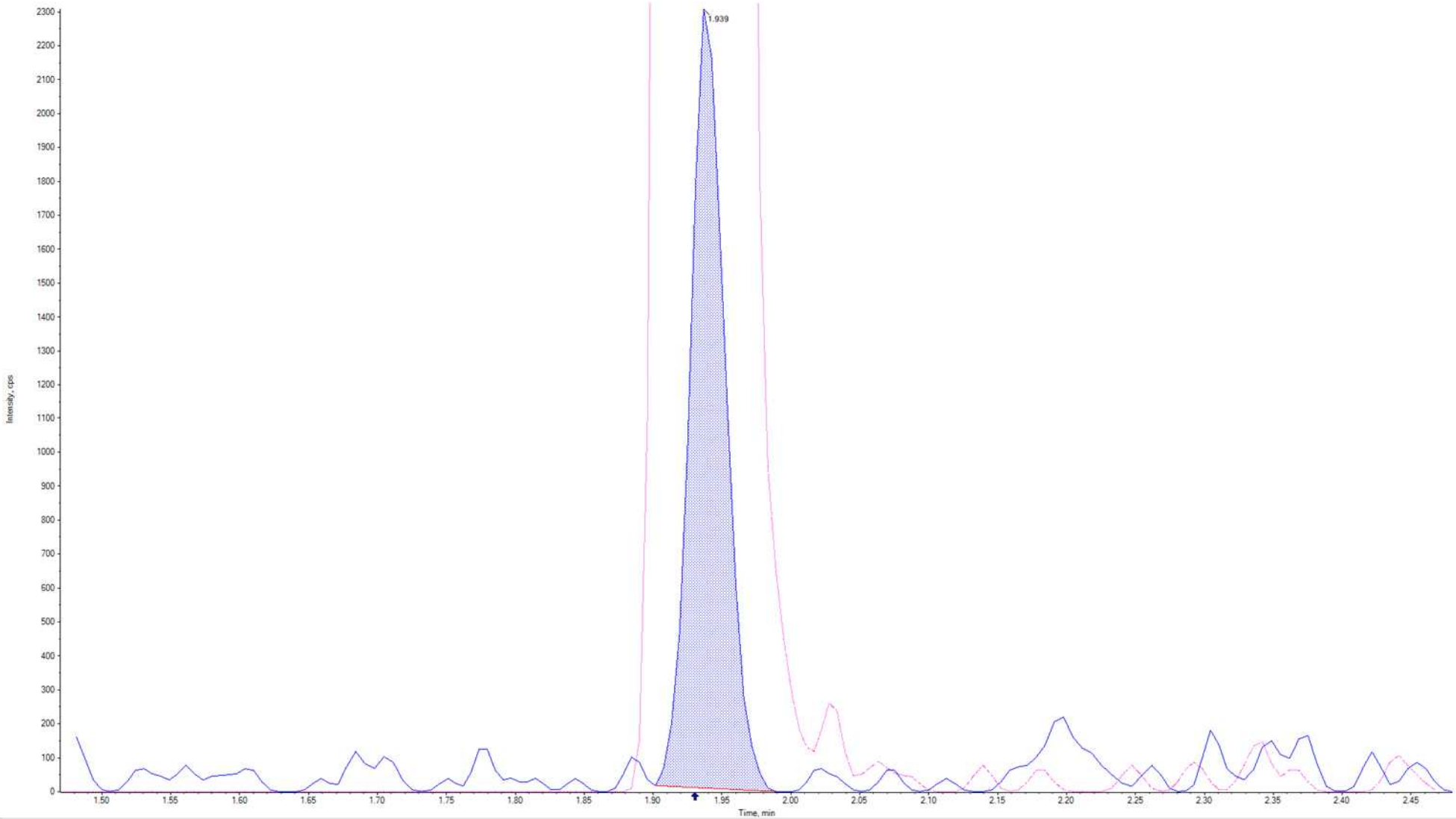
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFHxA
Sample: WG2038851-1,1633LOW S/N:522.1 Points Across peak:27



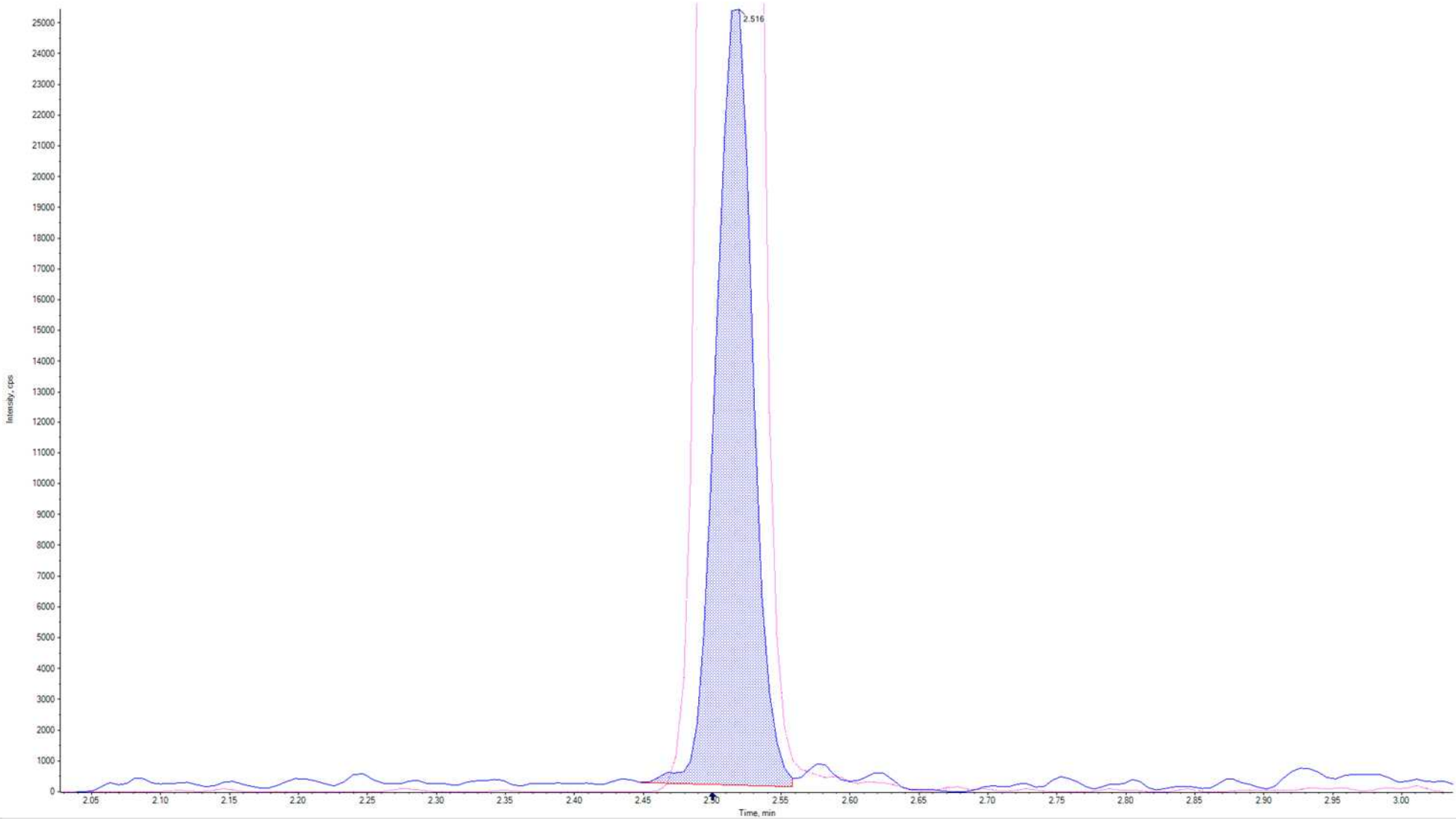
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFHxA_2
Sample: WG2038851-1,1633LOW S/N:57.6 Points Across peak:16



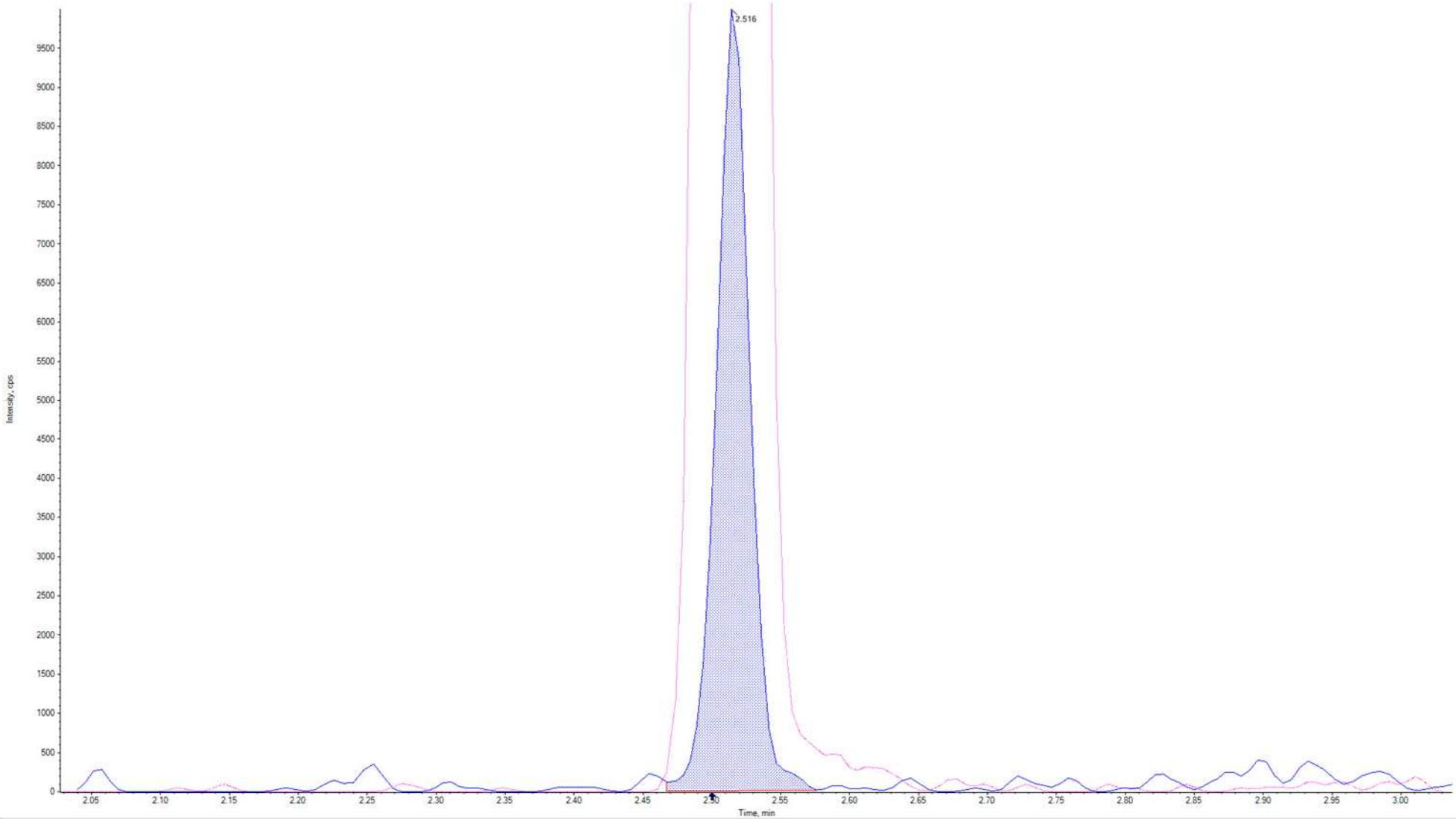
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFHpA
Sample: WG2038851-1,1633LOW S/N:505.9 Points Across peak:21



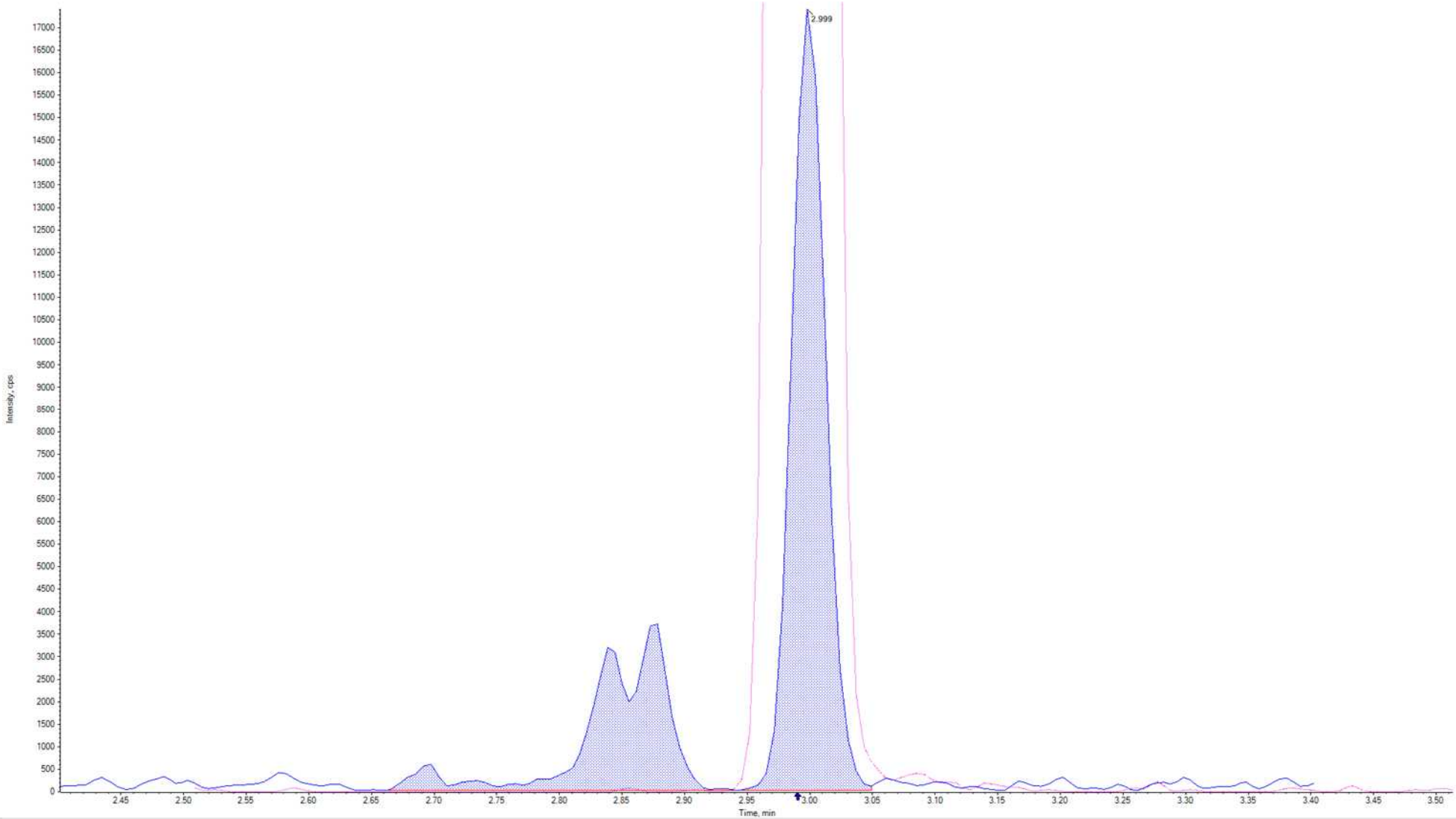
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFHpA_2
Sample: WG2038851-1,1633LOW S/N:200.2 Points Across peak:21



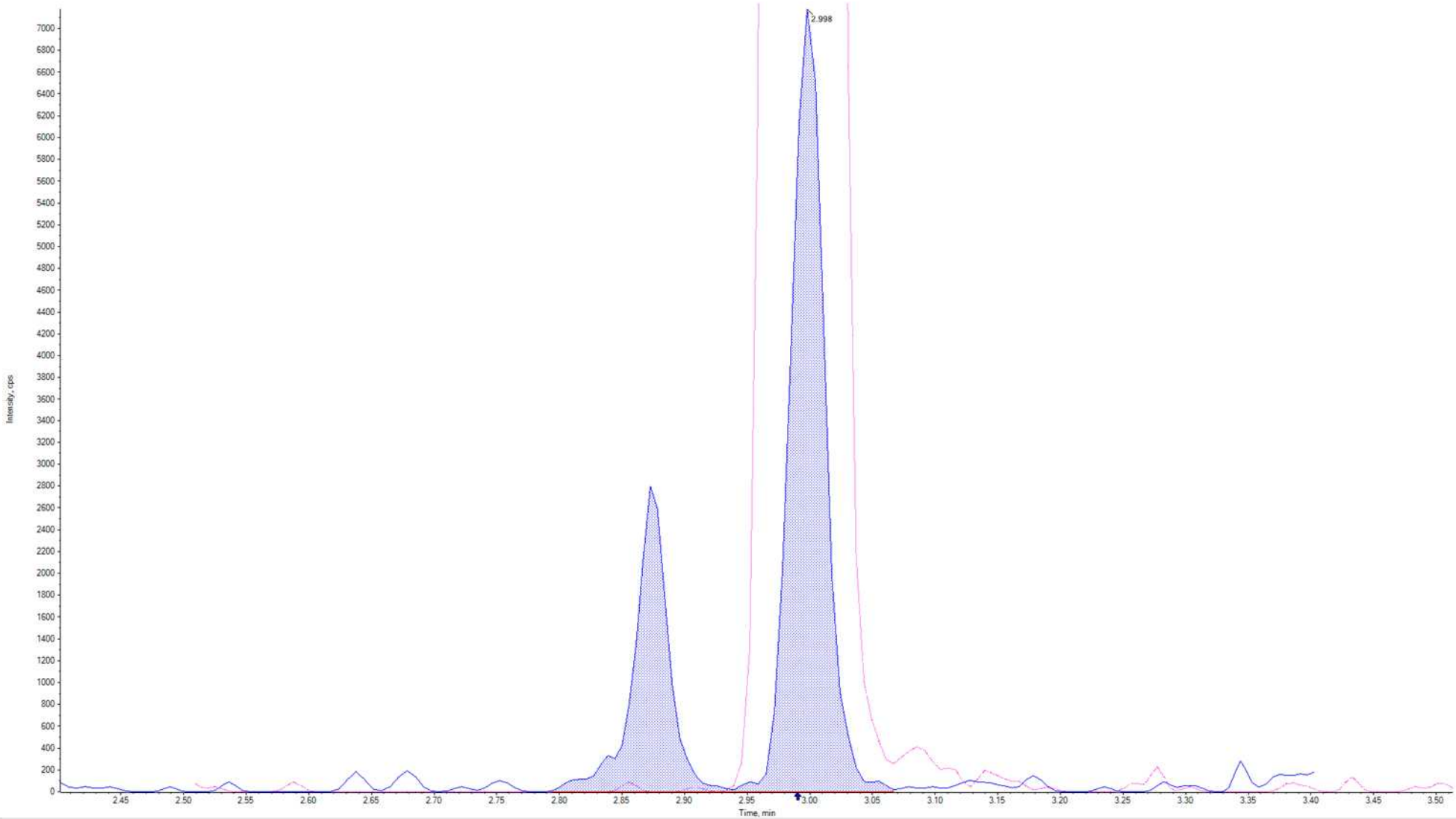
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFOA
Sample: WG2038851-1,1633LOW S/N:194.6 Points Across peak:66



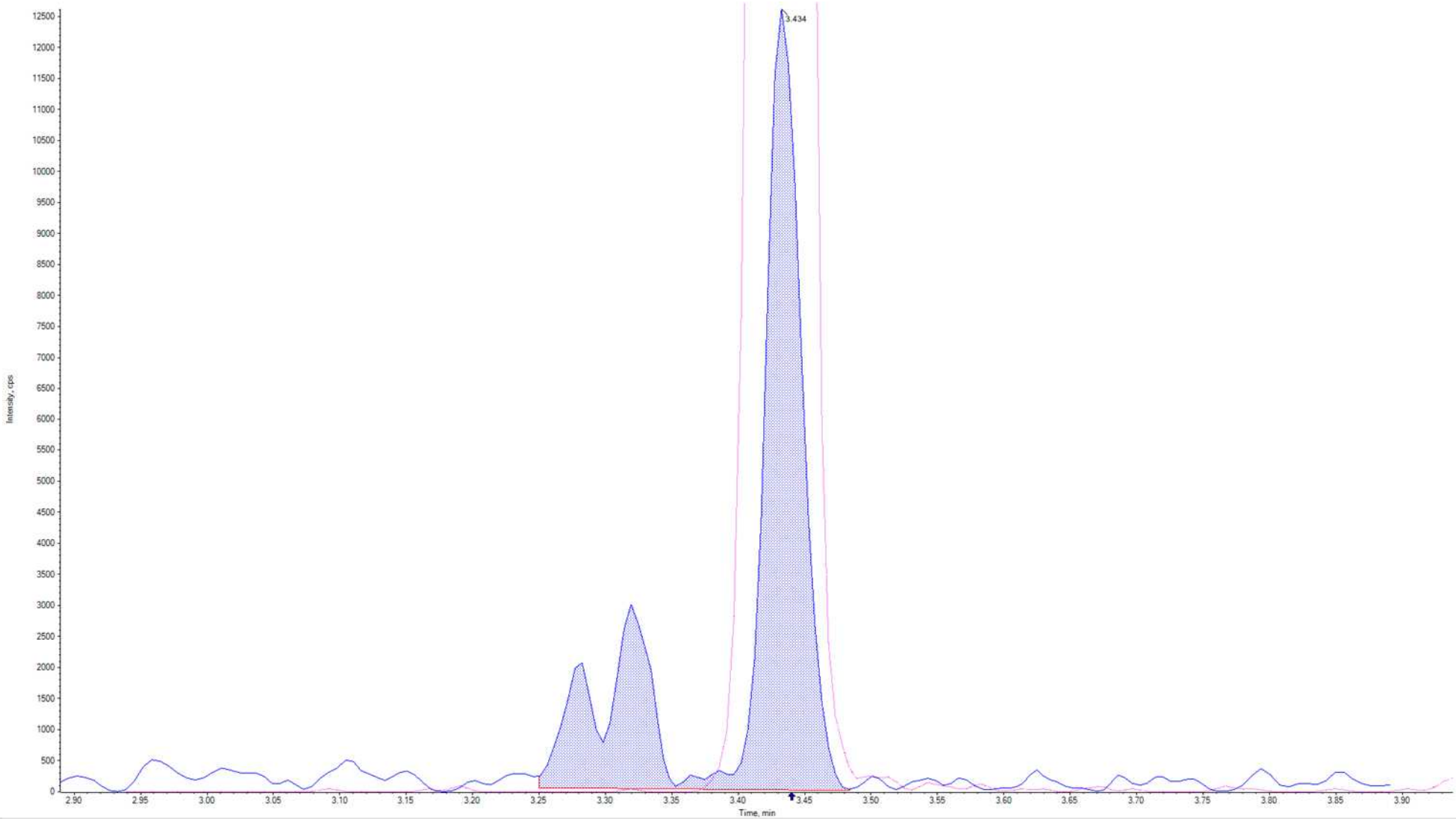
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFOA_2
Sample: WG2038851-1,1633LOW S/N:161.9 Points Across peak:47



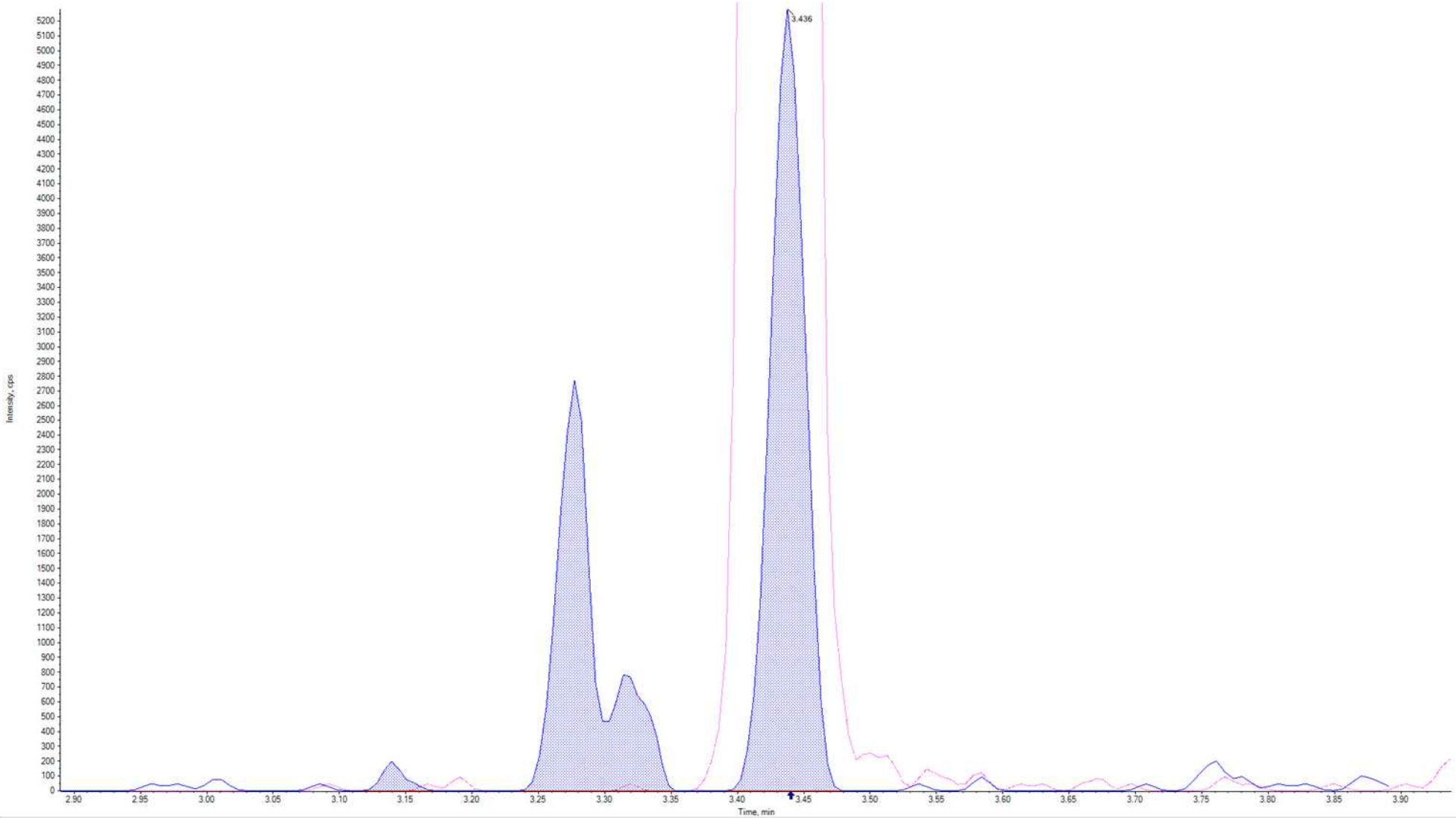
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFNA
Sample: WG2038851-1,1633LOW S/N:117.1 Points Across peak:48



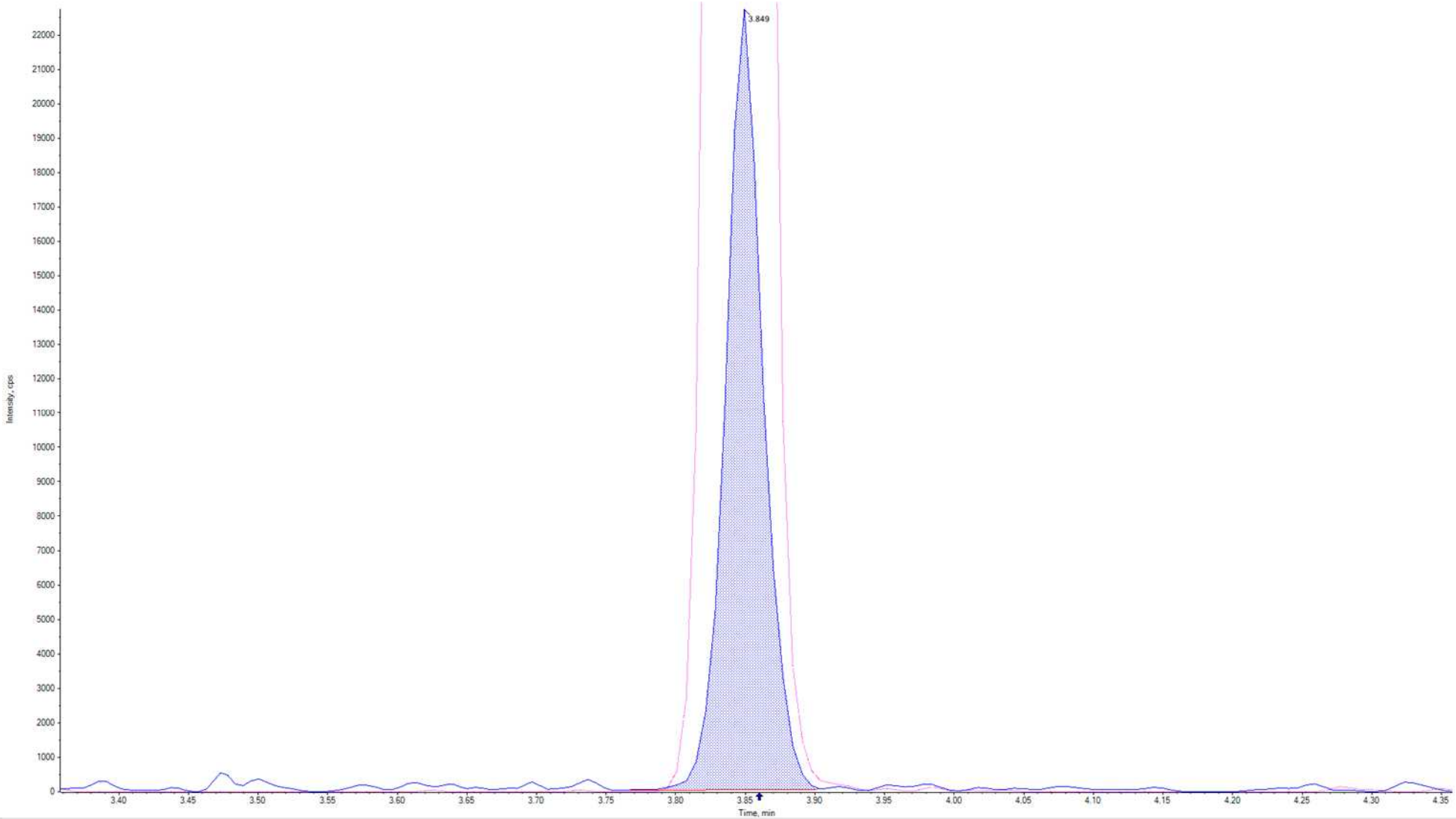
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFNA_2
Sample: WG2038851-1,1633LOW S/N:119.1 Points Across peak:71



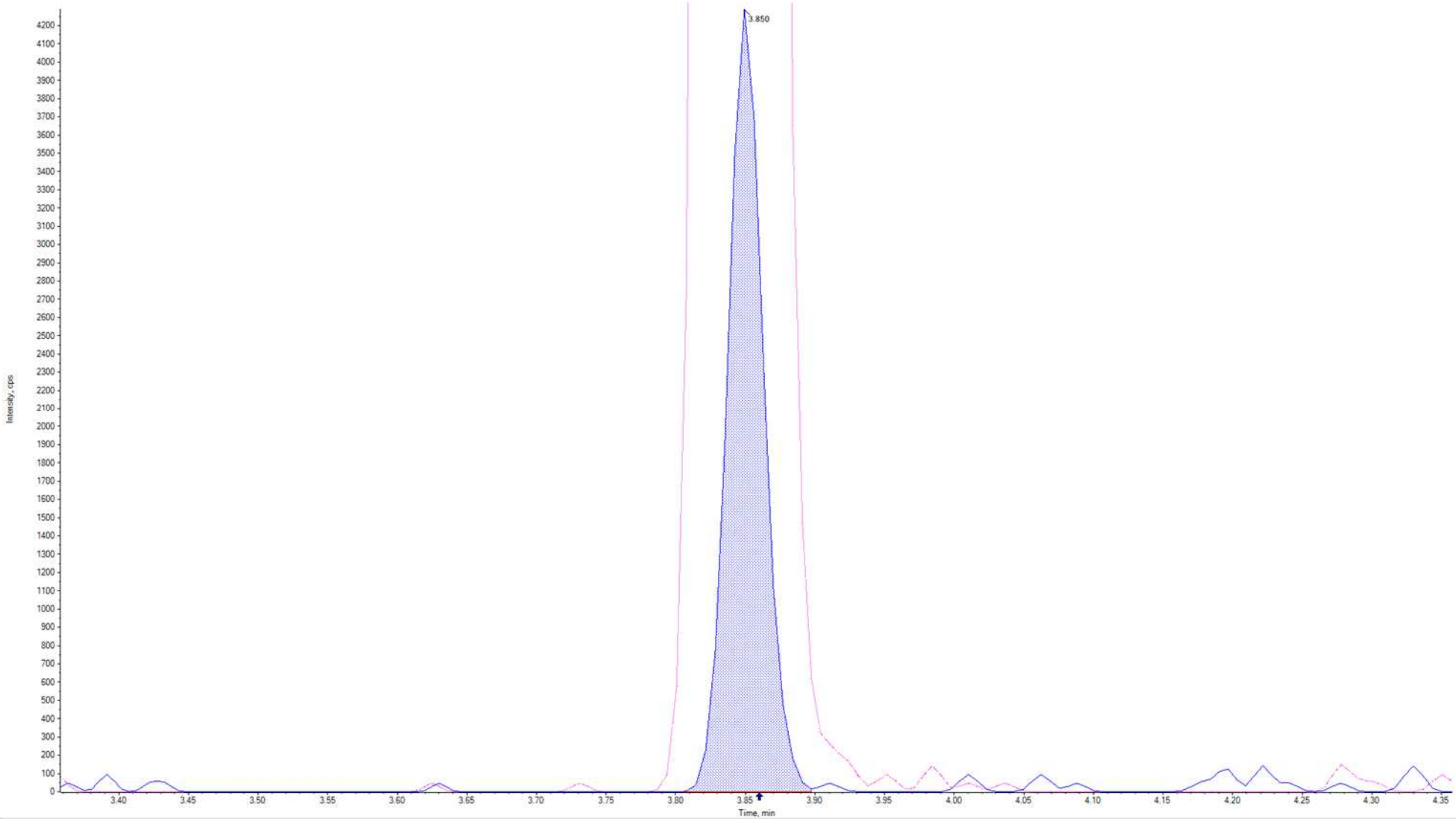
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Alpha Analytical LLC
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Generated: 3/11/2025 7:33:31 AM

PFDA
Sample: WG2038851-1,1633LOW S/N:455.0 Points Across peak:22



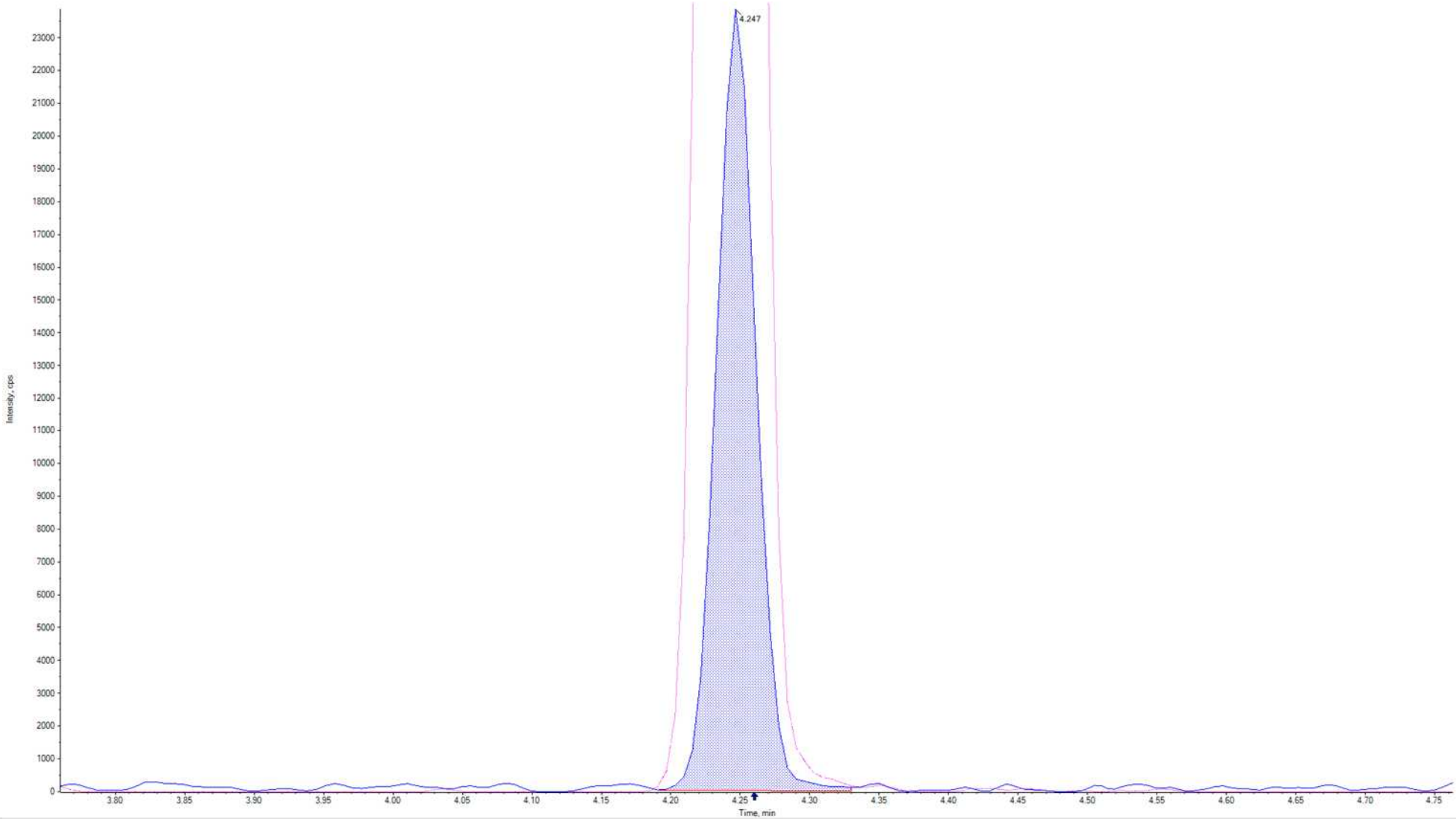
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFDA_2
Sample: WG2038851-1,1633LOW S/N:86.0 Points Across peak:19



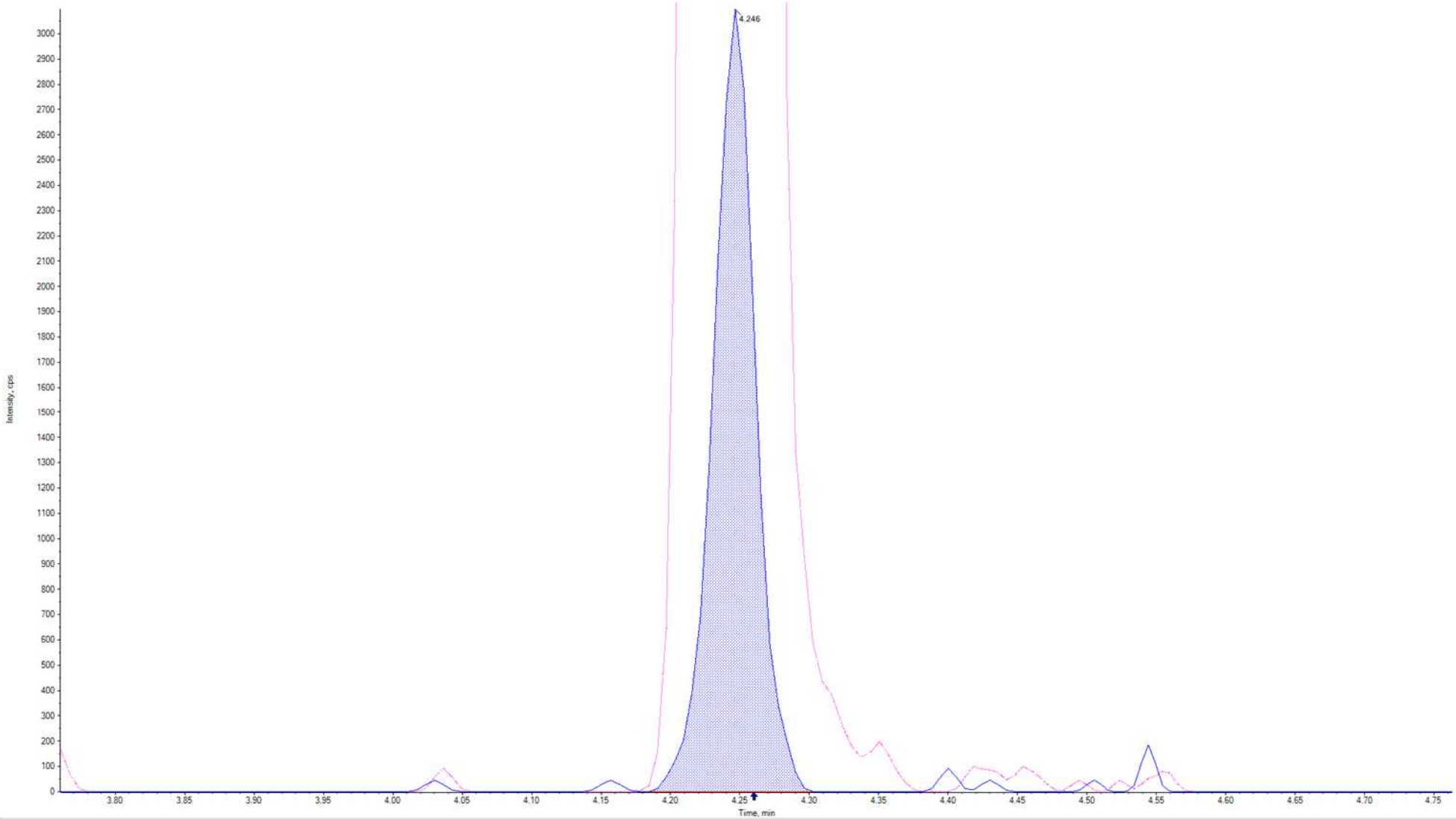
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFUnA
Sample: WG2038851-1,1633LOW S/N:537.6 Points Across peak:23



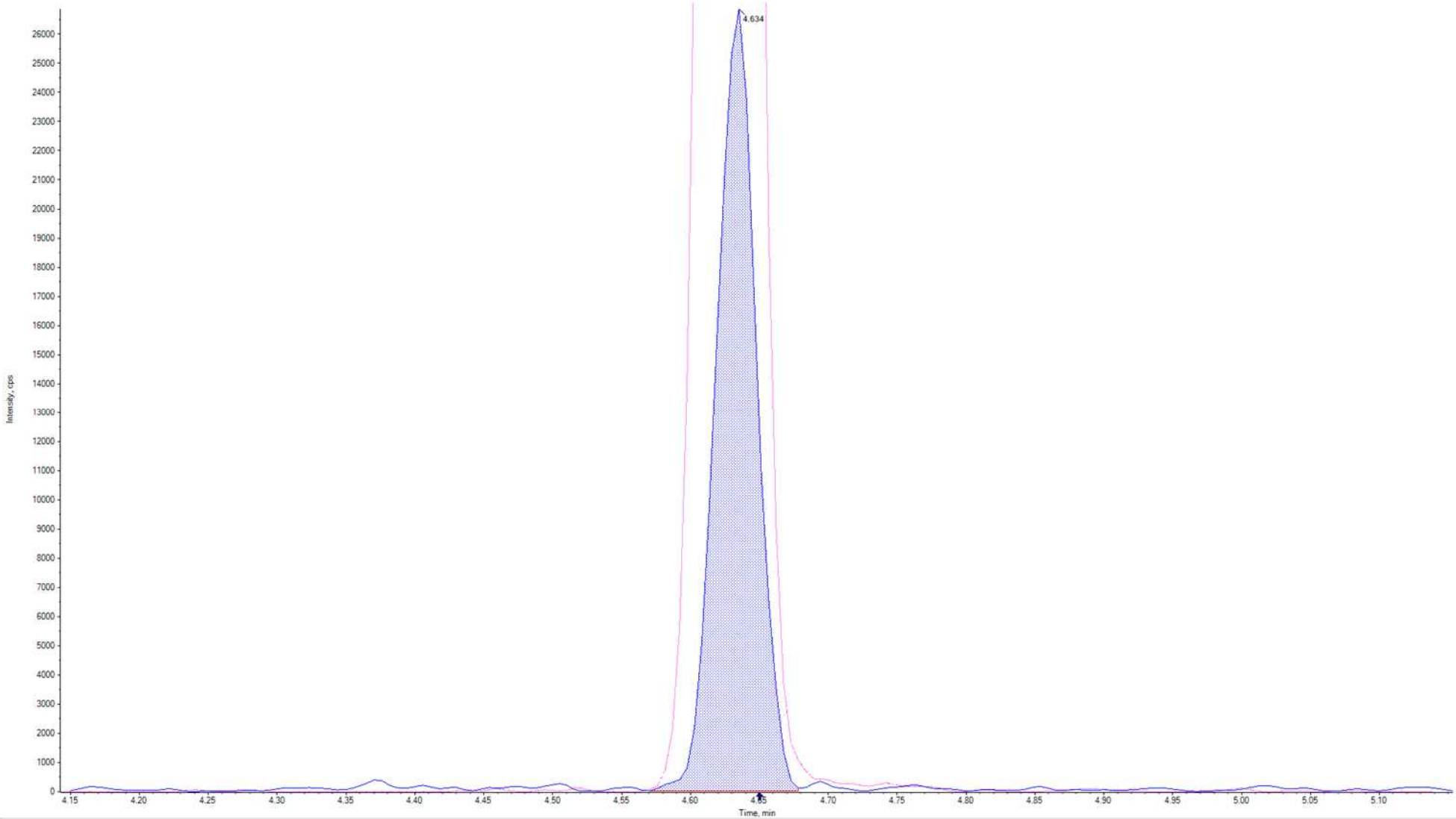
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFUnA_2
Sample: WG2038851-1,1633LOW S/N:69.9 Points Across peak:26



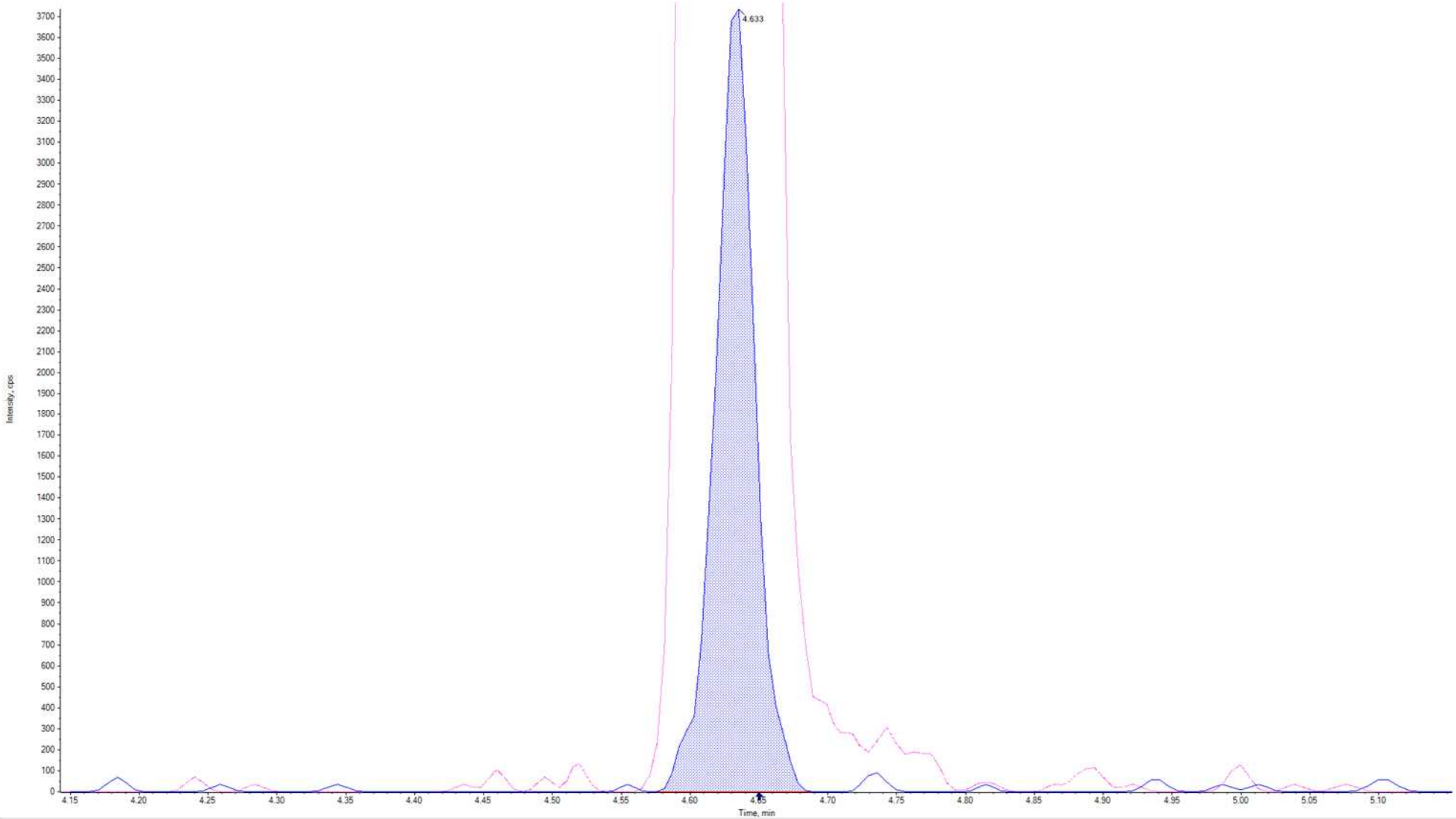
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFDoA
Sample: WG2038851-1,1633LOW S/N:739.5 Points Across peak:21



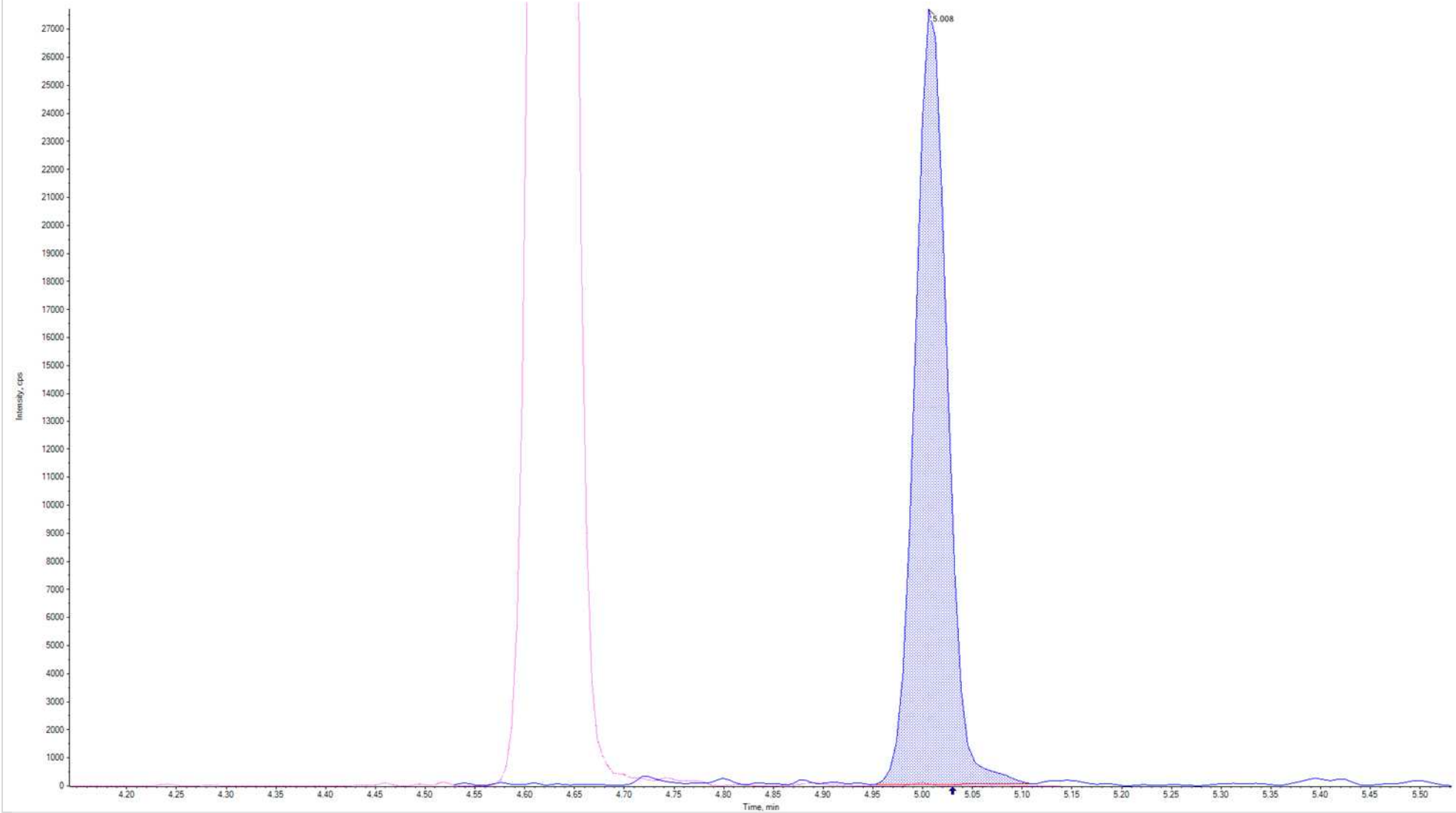
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFDoA_2
Sample: WG2038851-1,1633LOW S/N:103.0 Points Across peak:26



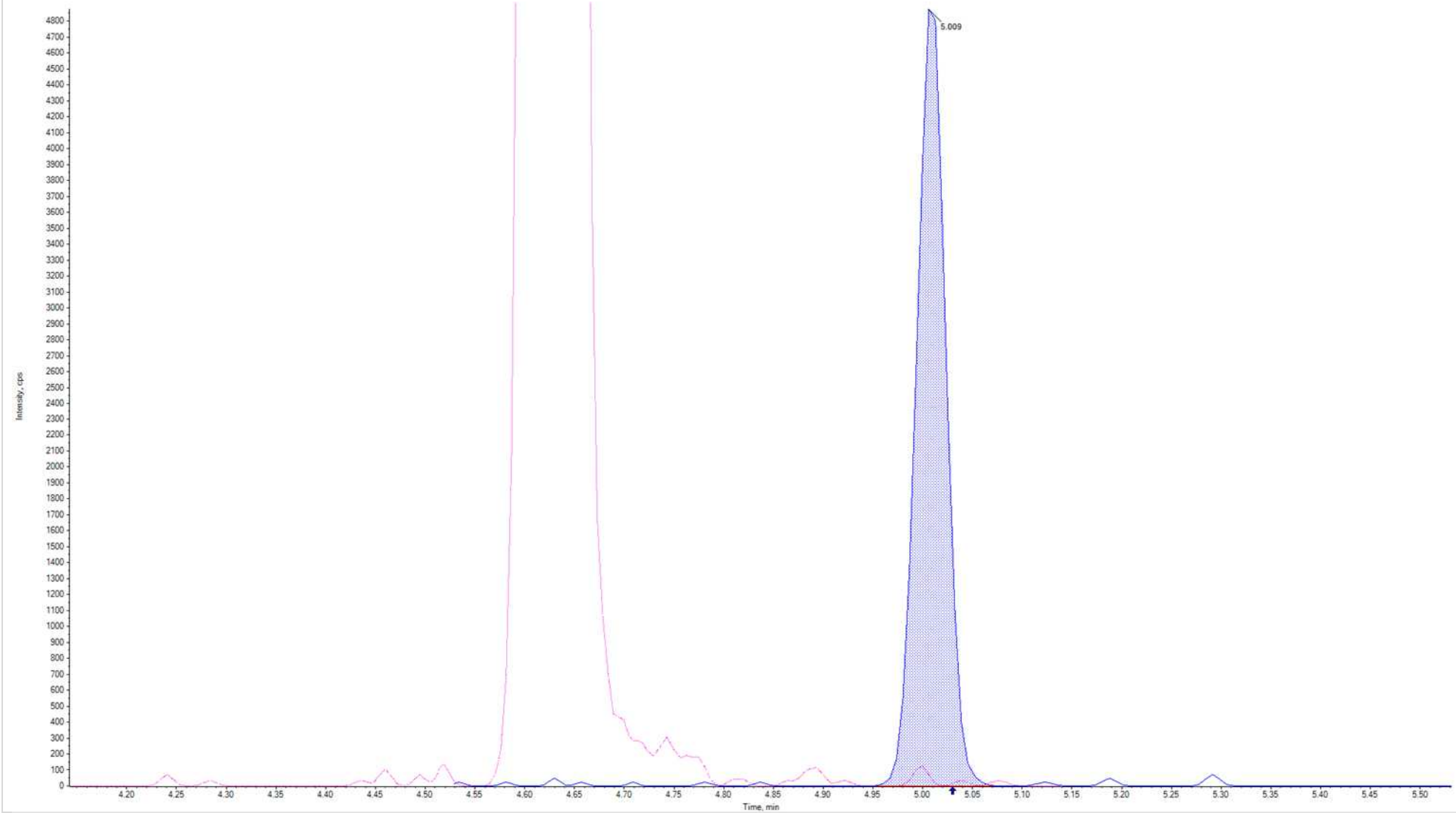
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFTrDA
Sample: WG2038851-1,1633LOW S/N:1109.5 Points Across peak:25



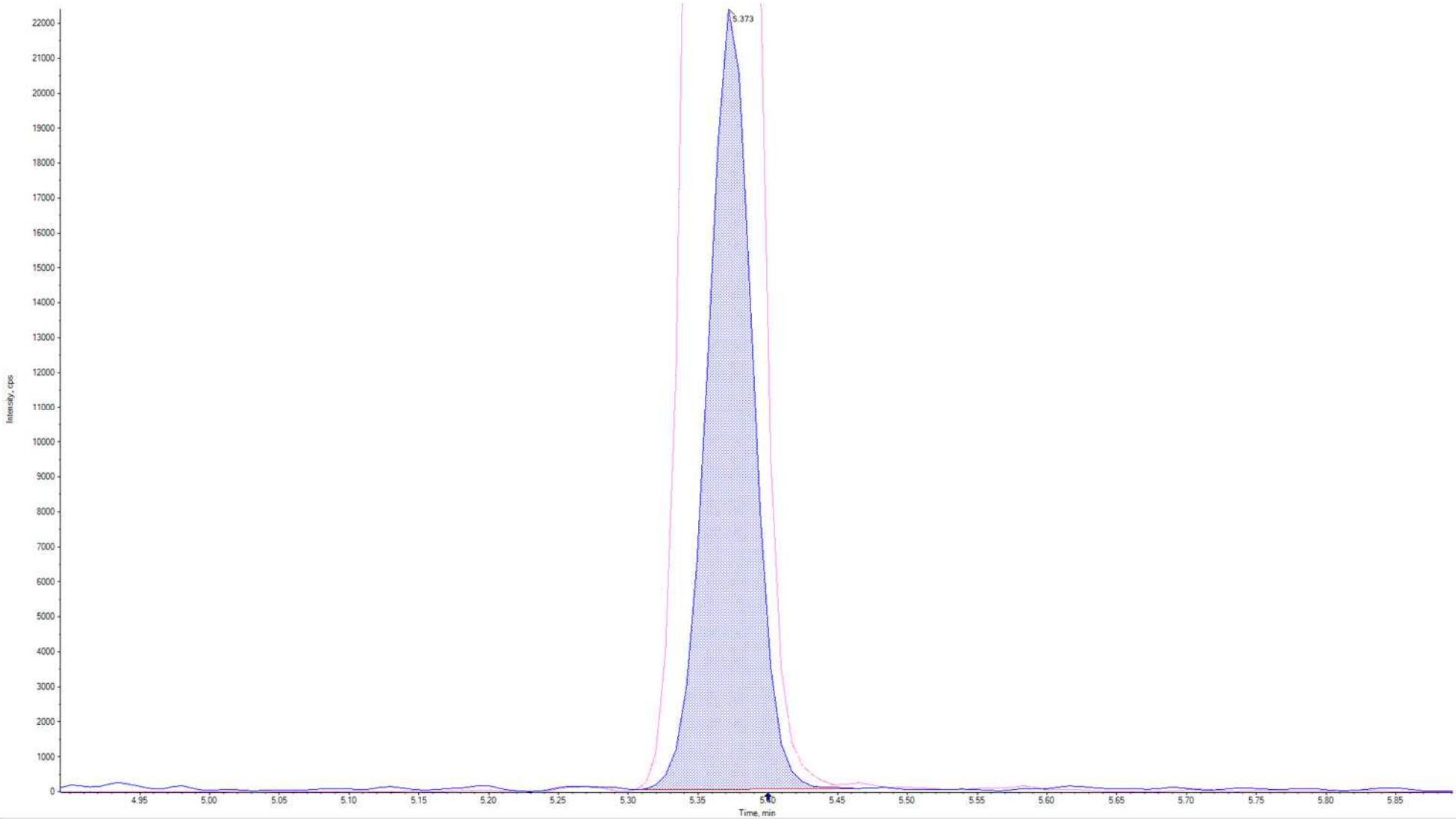
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFTrDA_2
Sample: WG2038851-1,1633LOW S/N:195.5 Points Across peak:24



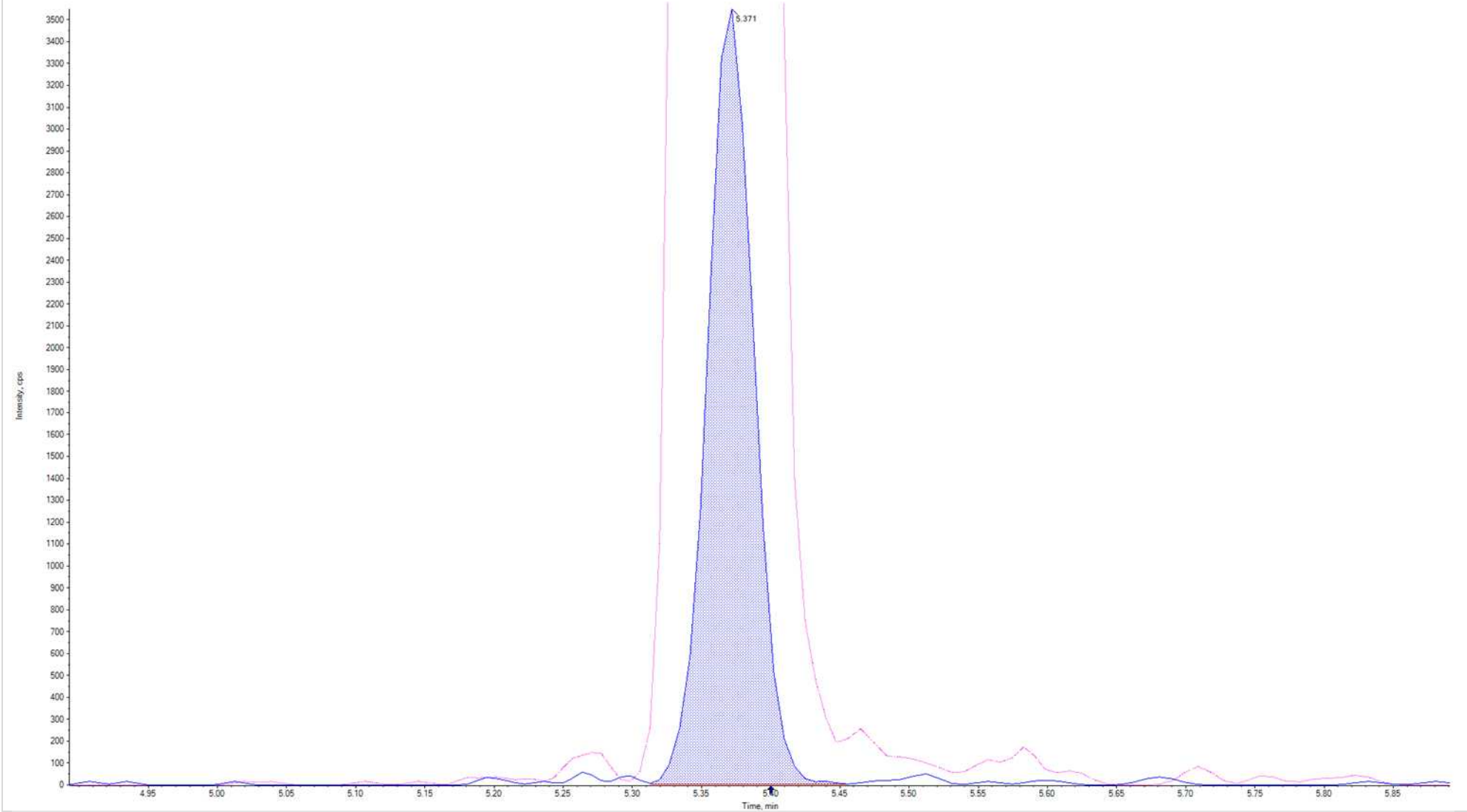
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFTeDA
Sample: WG2038851-1,1633LOW S/N:1106.3 Points Across peak:22



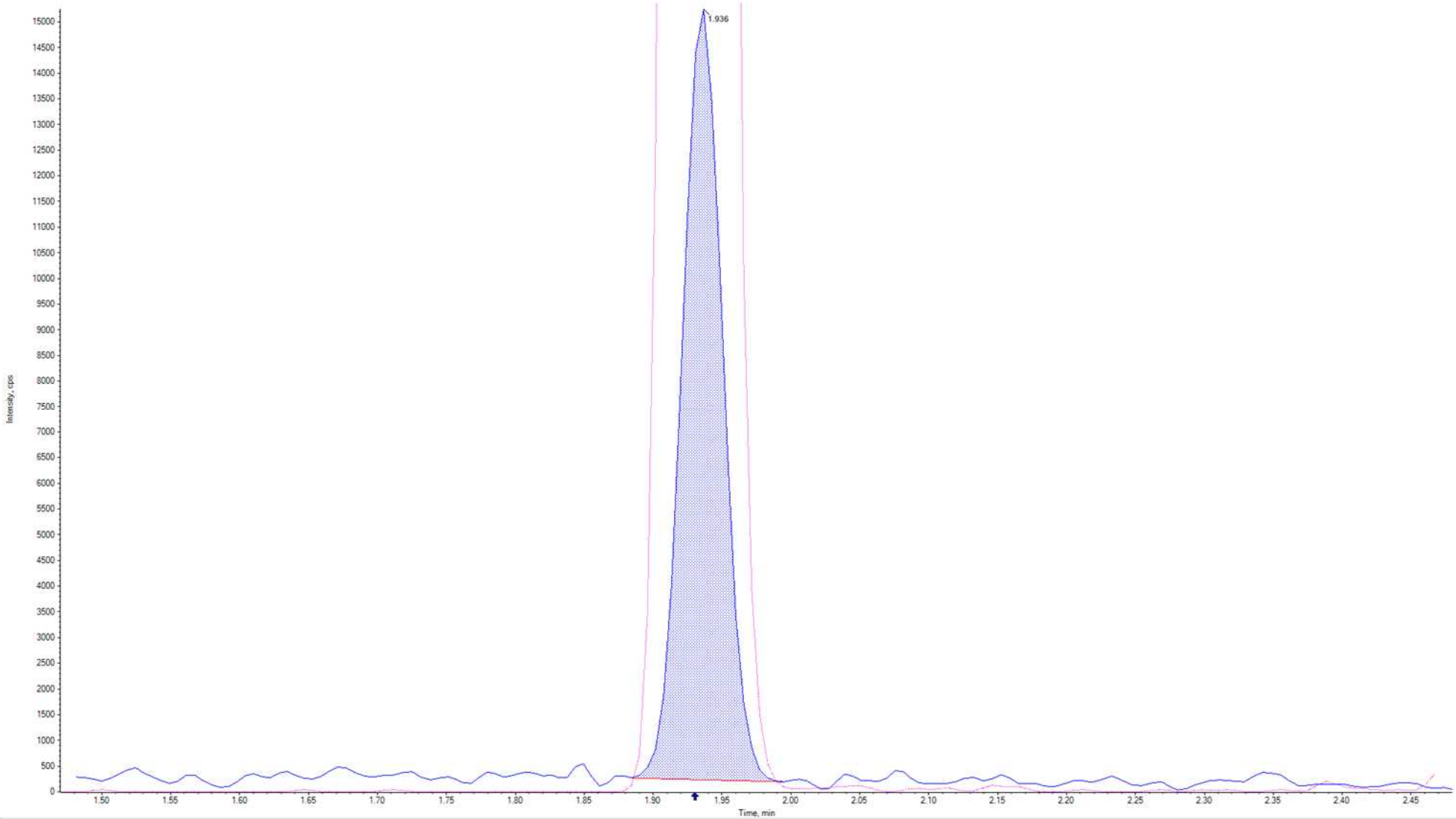
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFTeDA_2
Sample: WG2038851-1,1633LOW S/N:222.1 Points Across peak:20



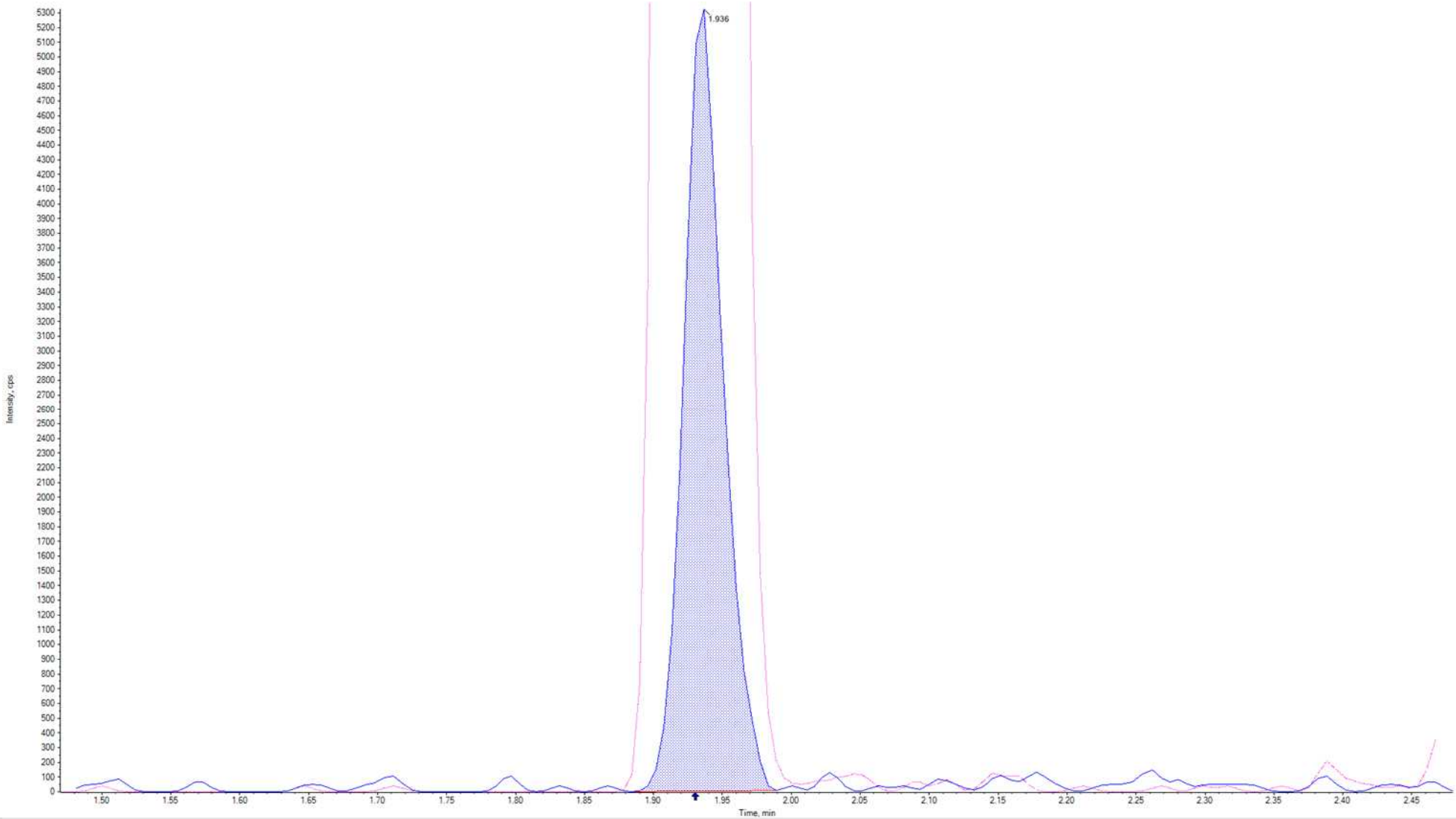
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFBS
Sample: WG2038851-1,1633LOW S/N:376.3 Points Across peak:20



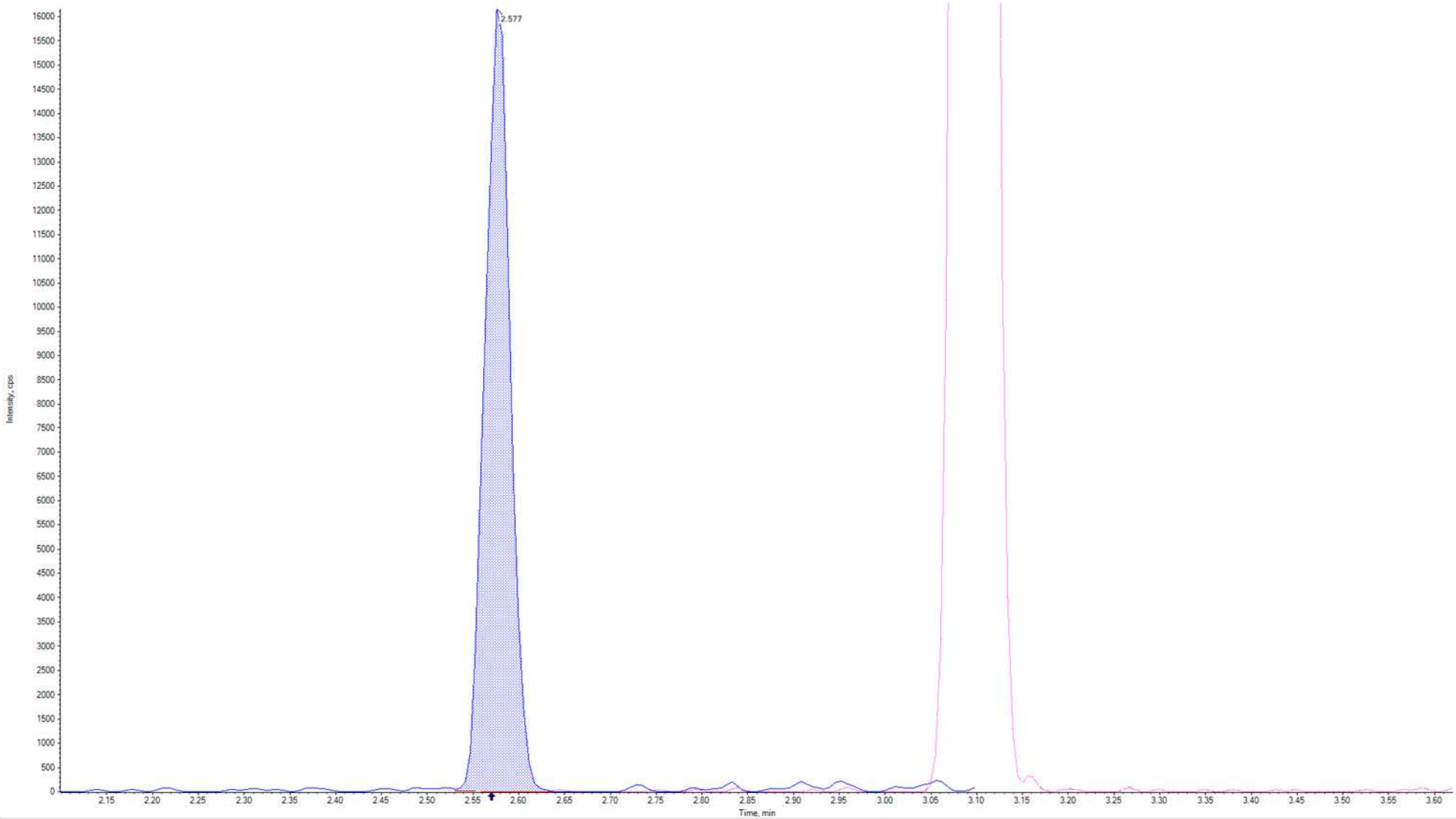
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFBS_2
Sample: WG2038851-1,1633LOW S/N:133.4 Points Across peak:19



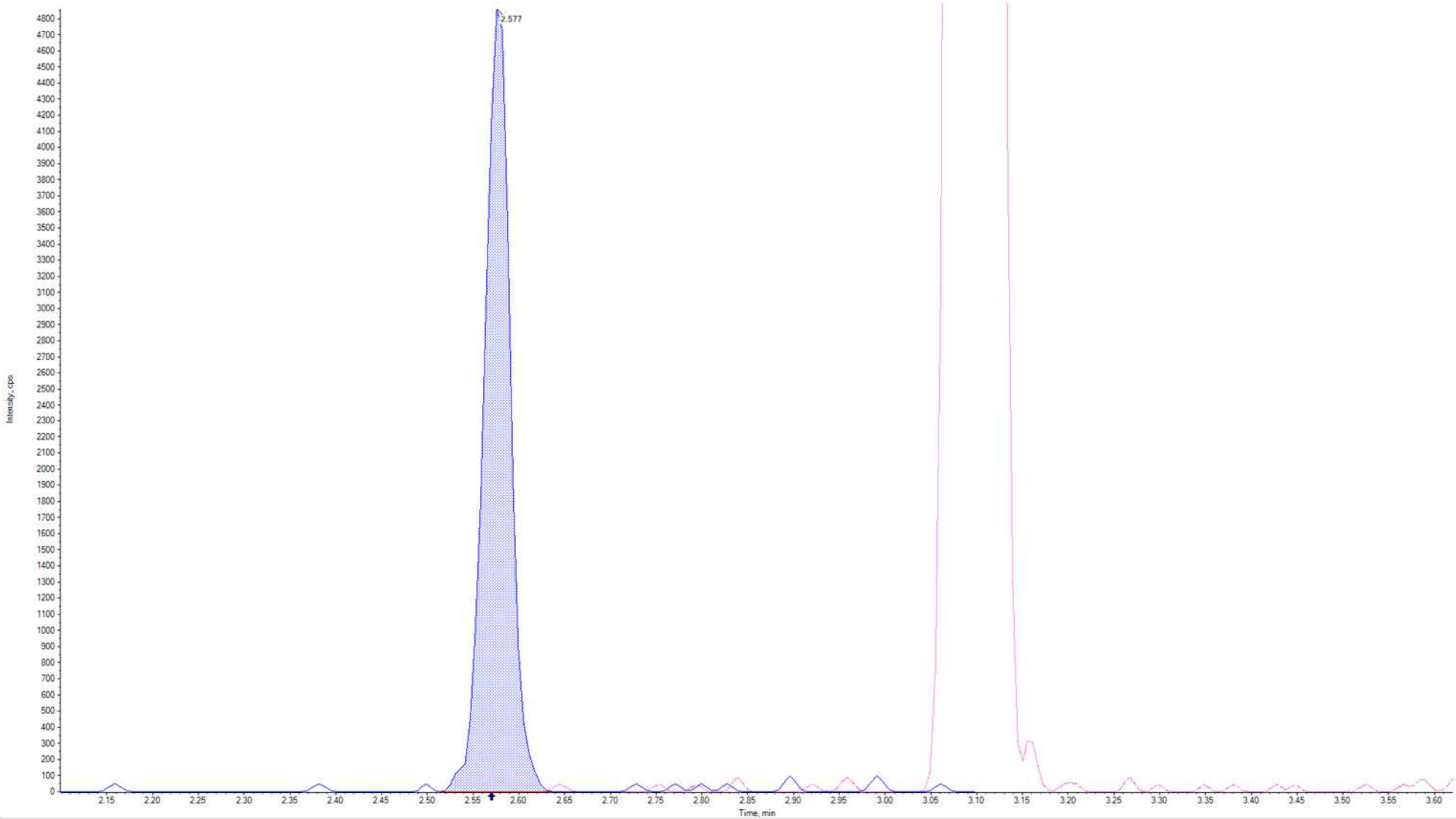
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFPeS
Sample: WG2038851-1,1633LOW S/N:323.8 Points Across peak:20



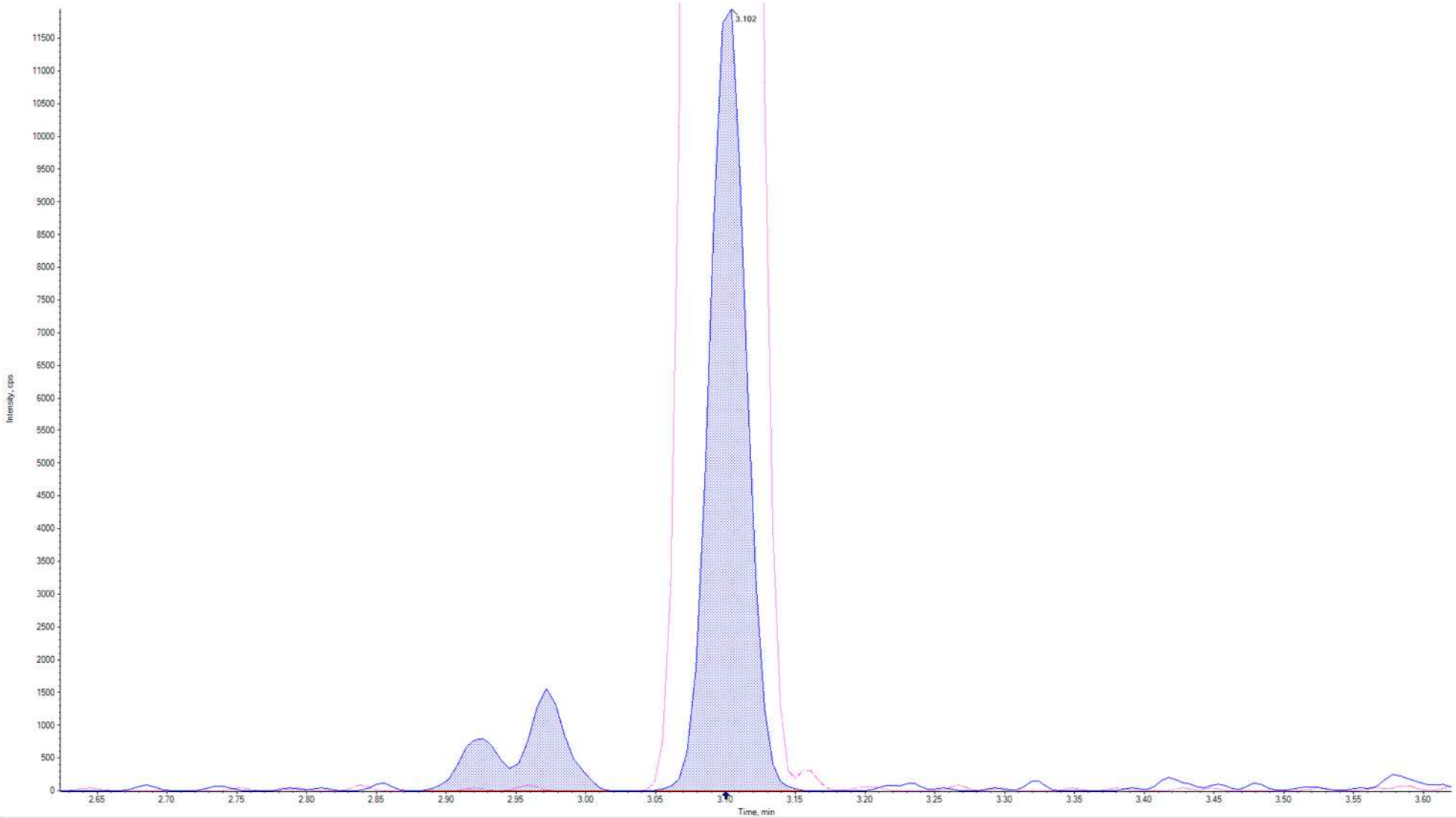
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFPeS_2
Sample: WG2038851-1,1633LOW S/N:97.4 Points Across peak:27



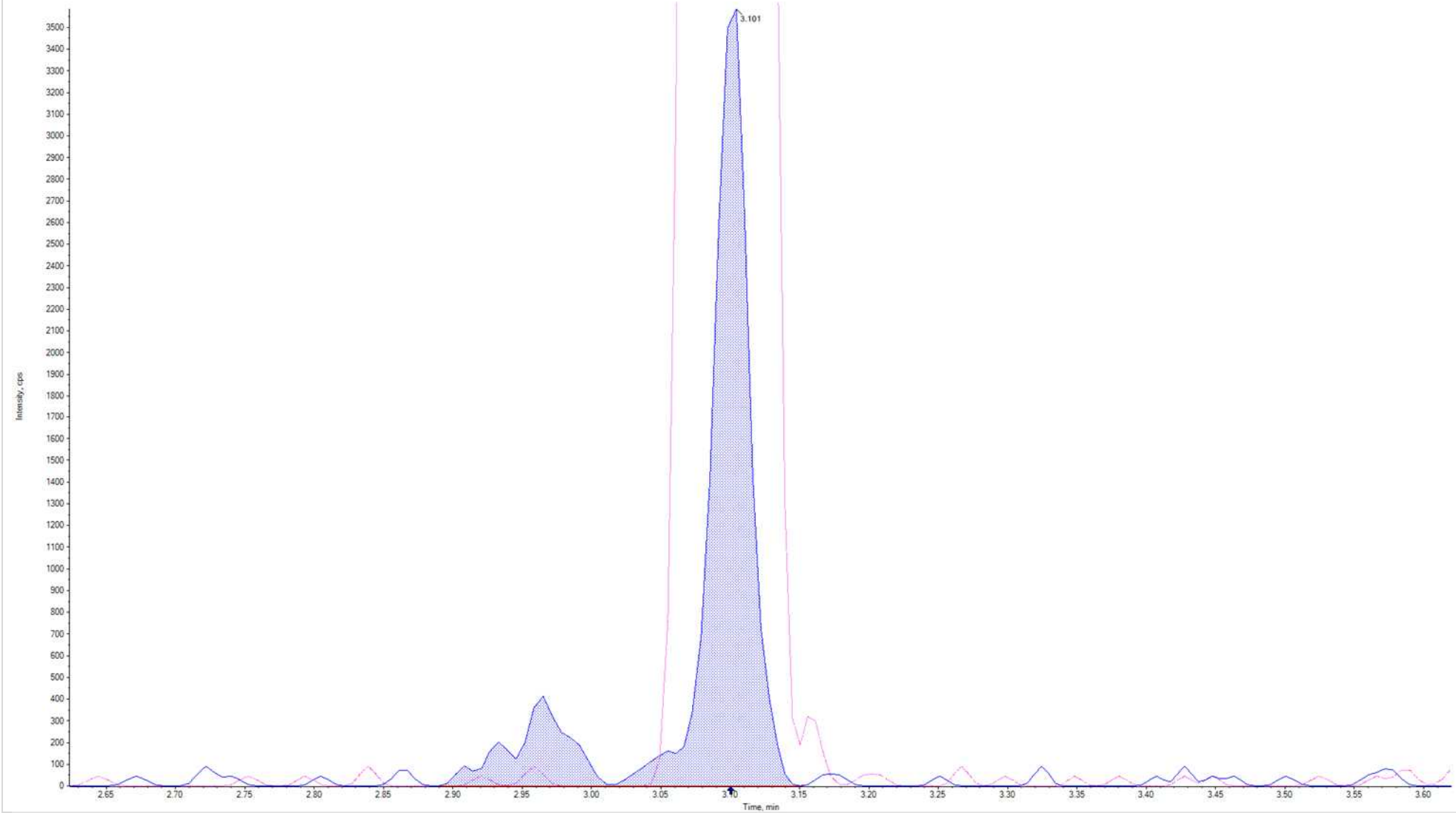
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFHxS
Sample: WG2038851-1,1633LOW S/N:269.5 Points Across peak:47



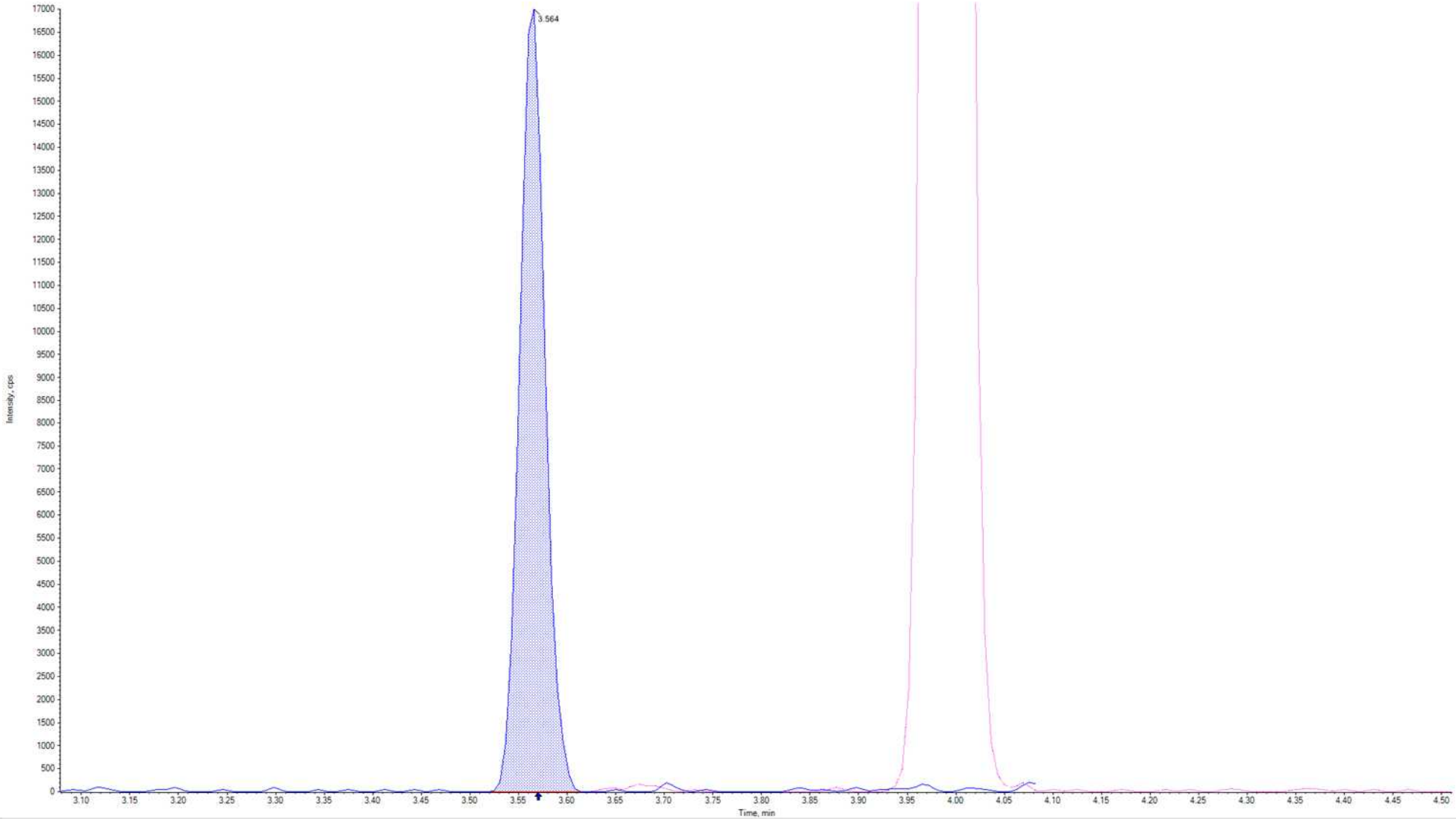
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFHxS_2
Sample: WG2038851-1,1633LOW S/N:80.9 Points Across peak:44



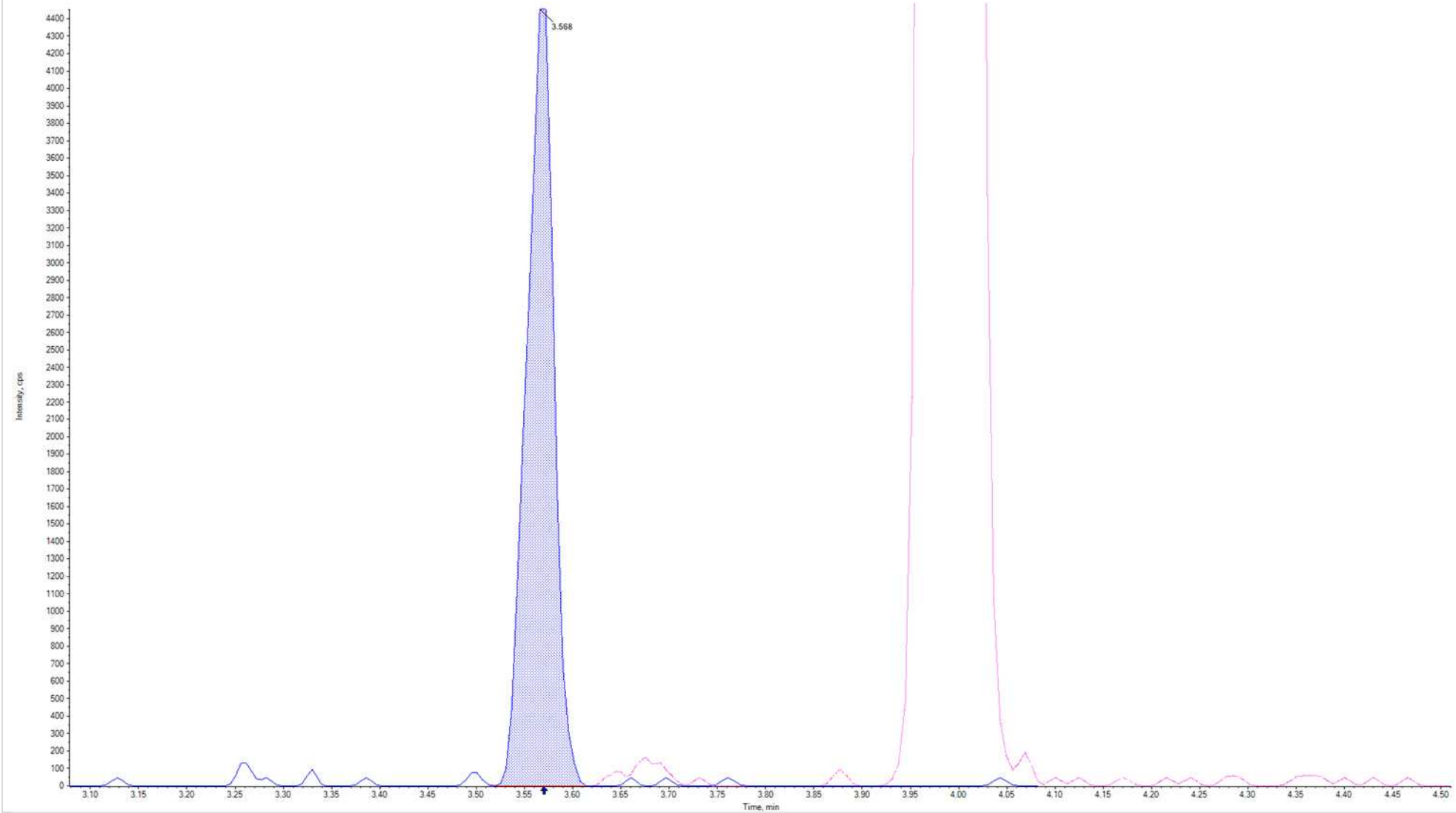
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFHpS
Sample: WG2038851-1,1633LOW S/N:340.9 Points Across peak:22



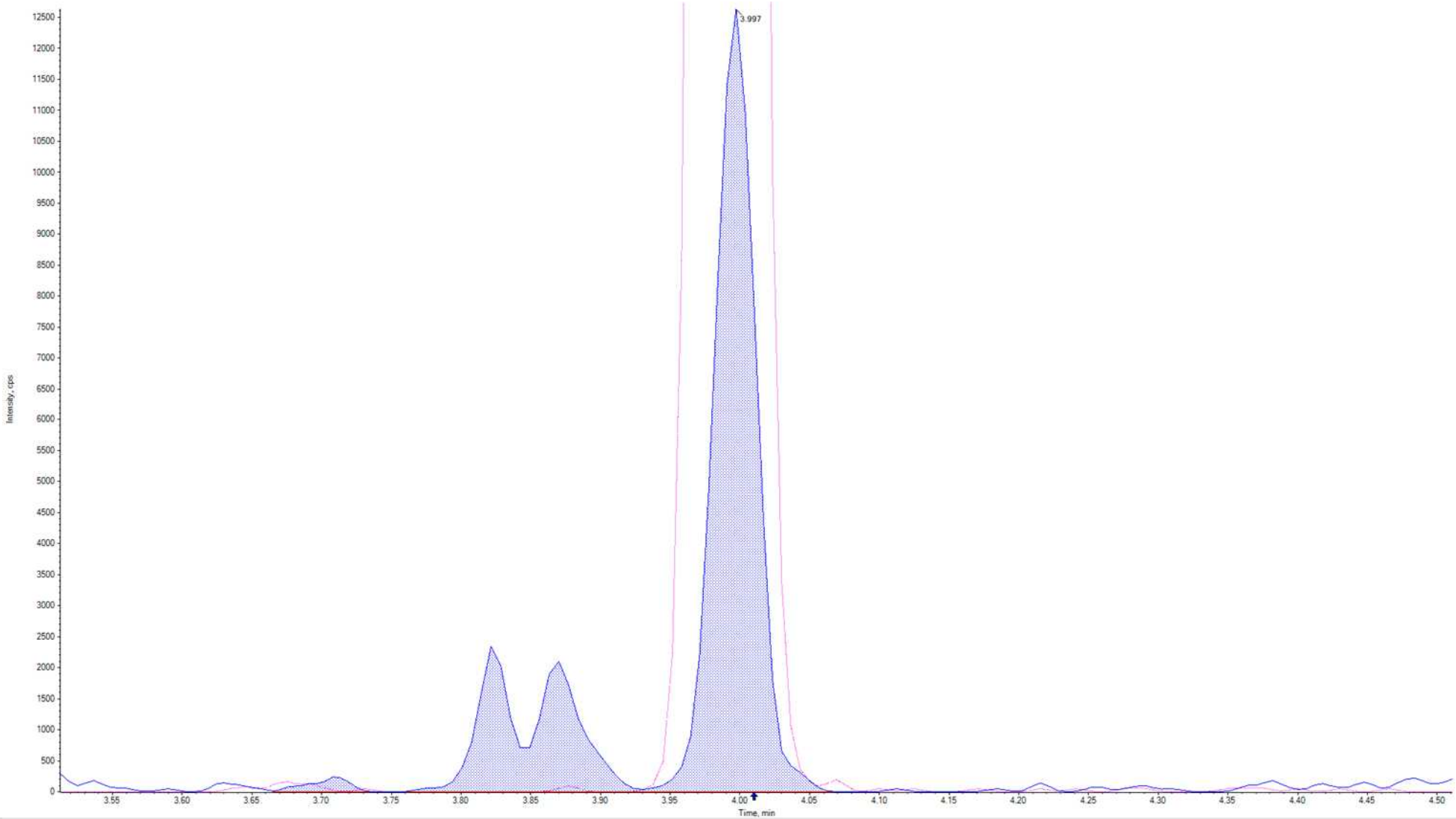
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFHpS_2
Sample: WG2038851-1,1633LOW S/N:89.3 Points Across peak:20



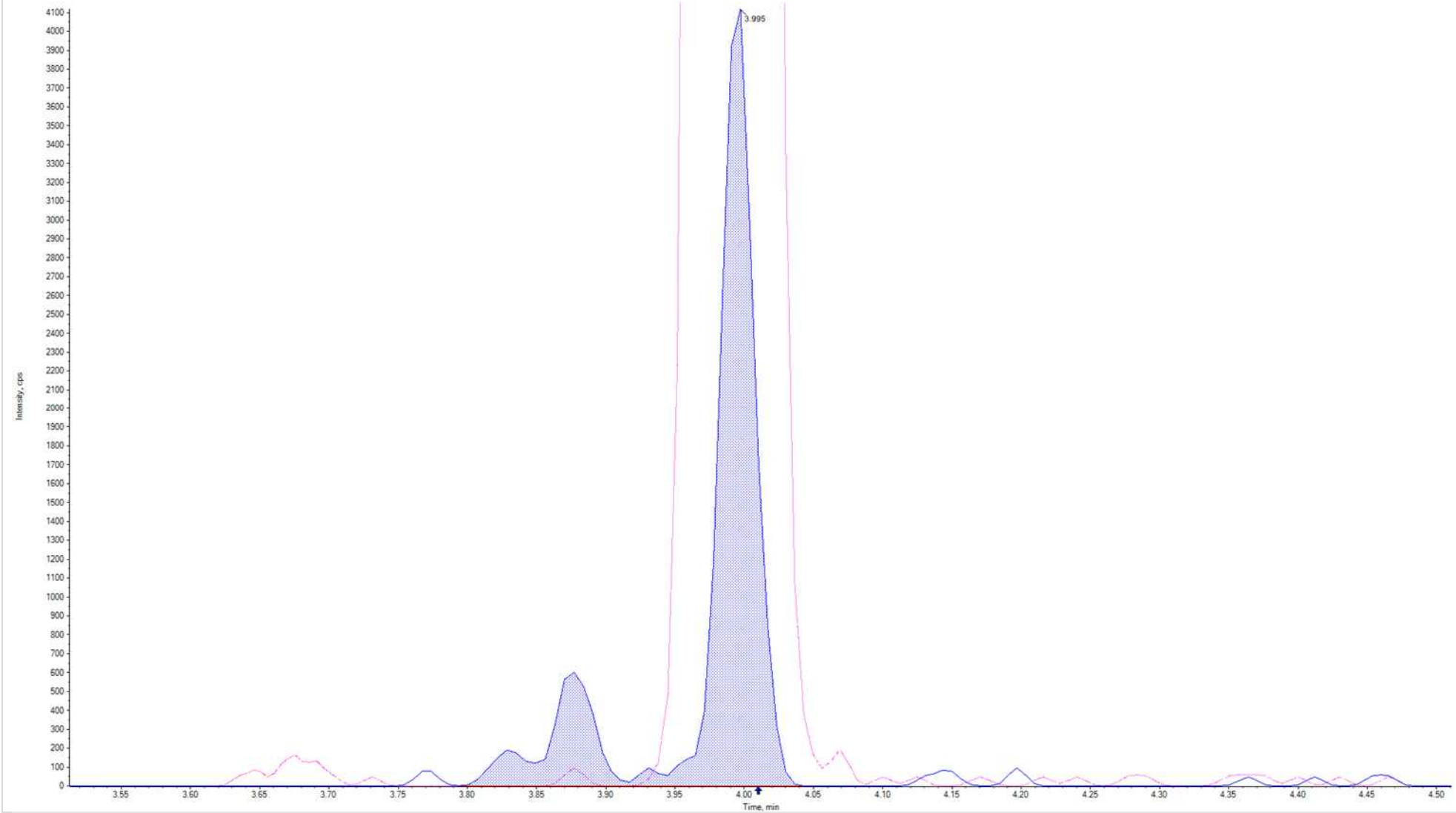
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFOS
Sample: WG2038851-1,1633LOW S/N:206.1 Points Across peak:66



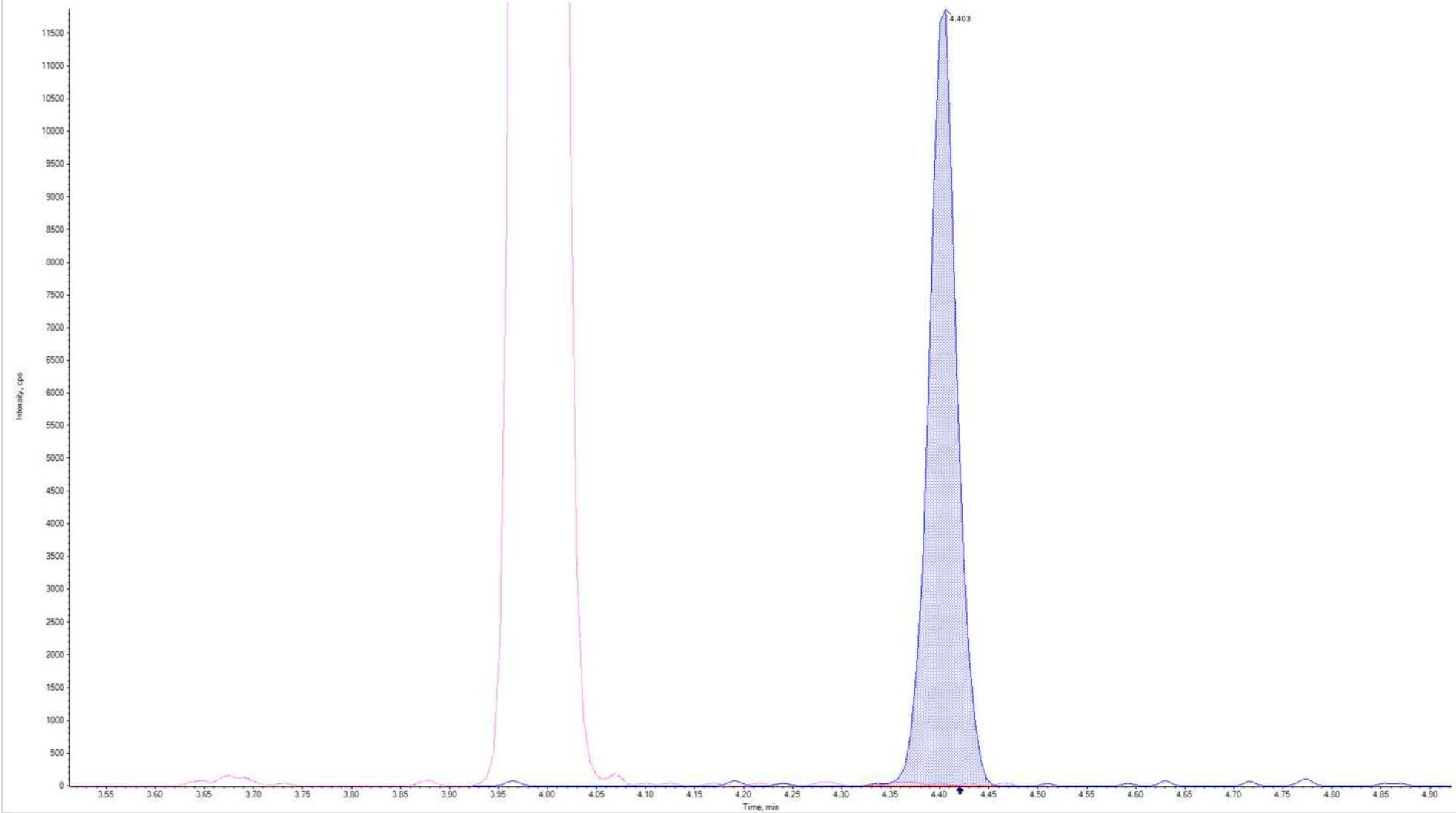
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFOS_2
Sample: WG2038851-1,1633LOW S/N:82.6 Points Across peak:39



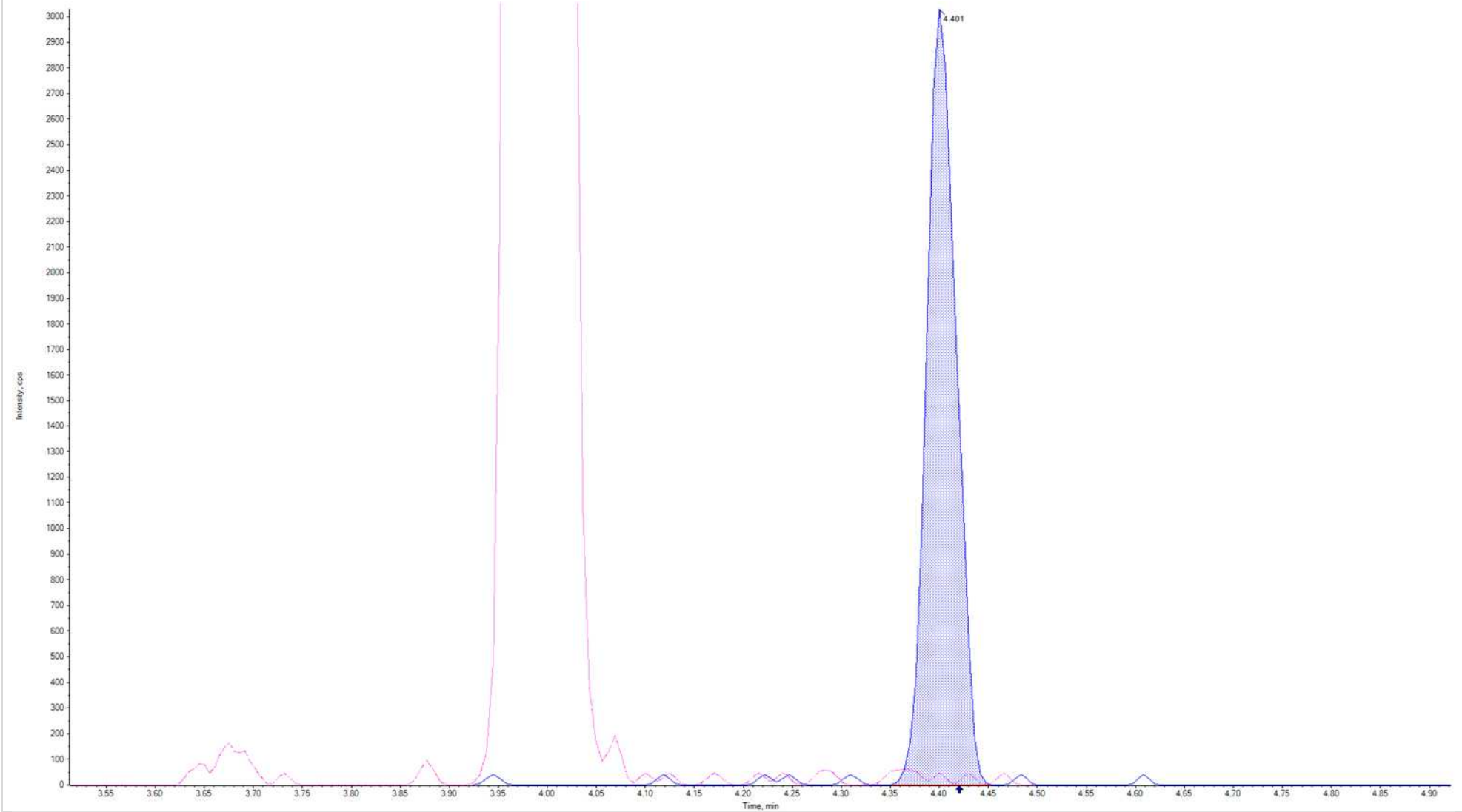
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFNS
Sample: WG2038851-1,1633LOW S/N:297.5 Points Across peak:31



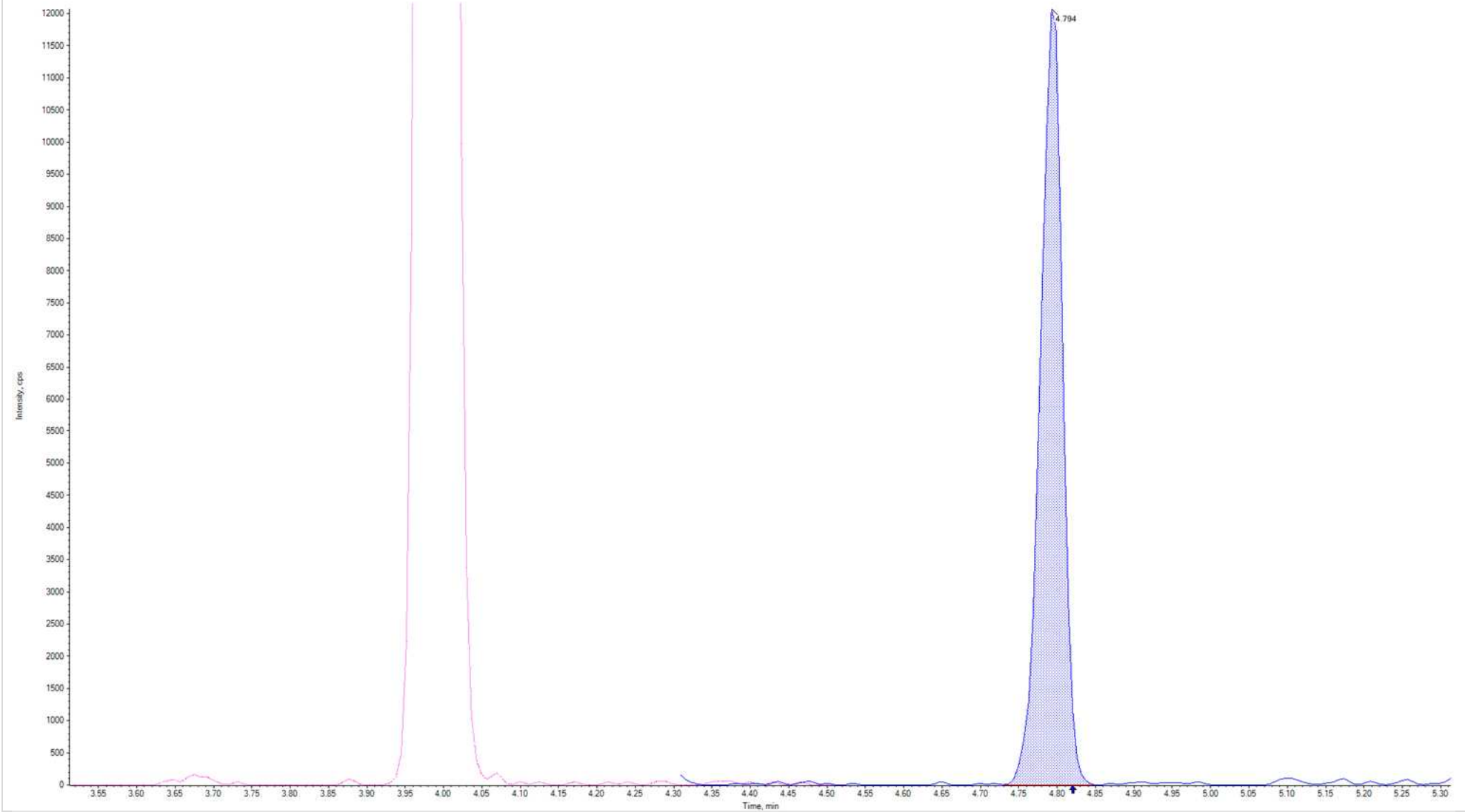
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFNS_2
Sample: WG2038851-1,1633LOW S/N:75.9 Points Across peak:21



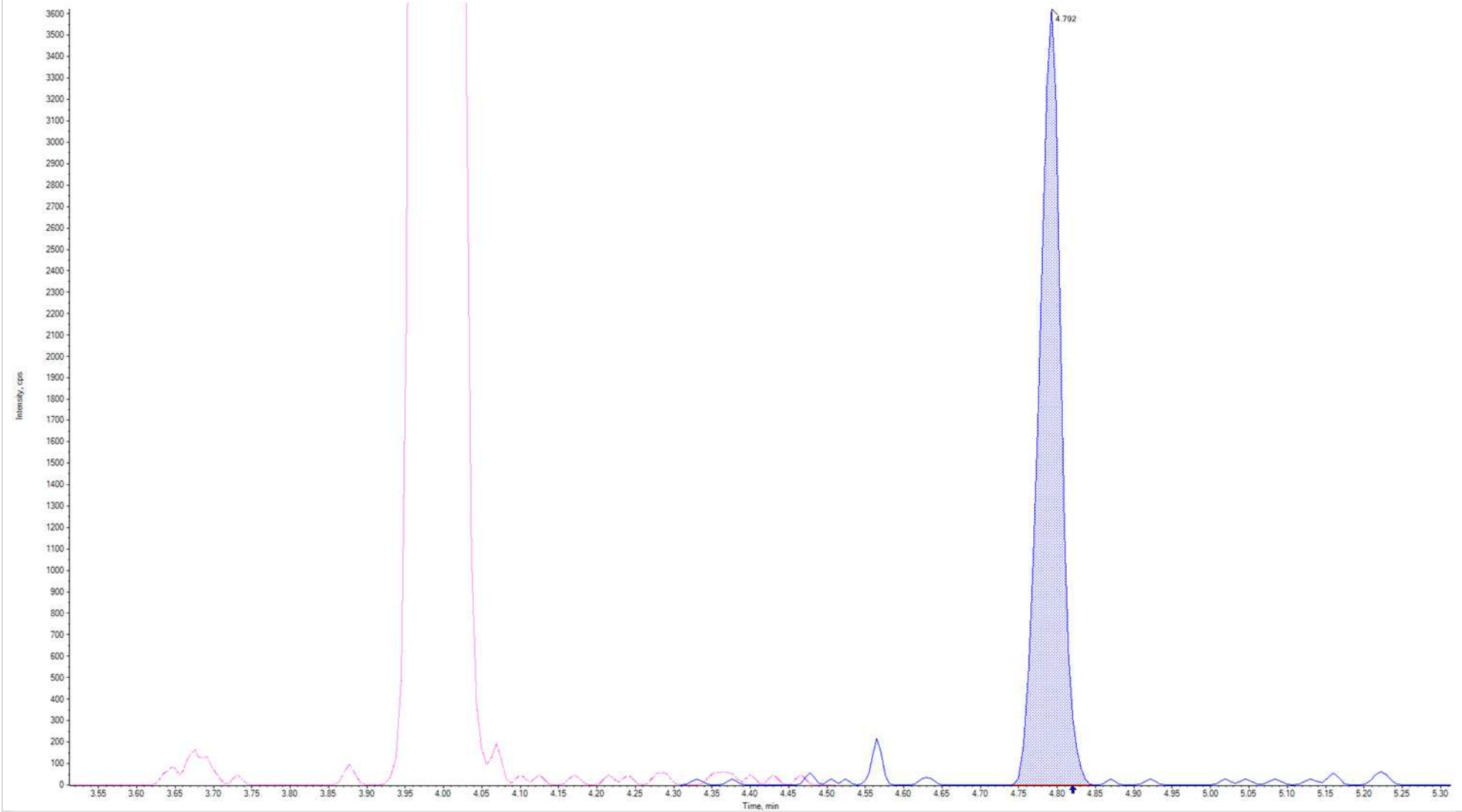
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFDS
Sample: WG2038851-1,1633LOW S/N:423.5 Points Across peak:22



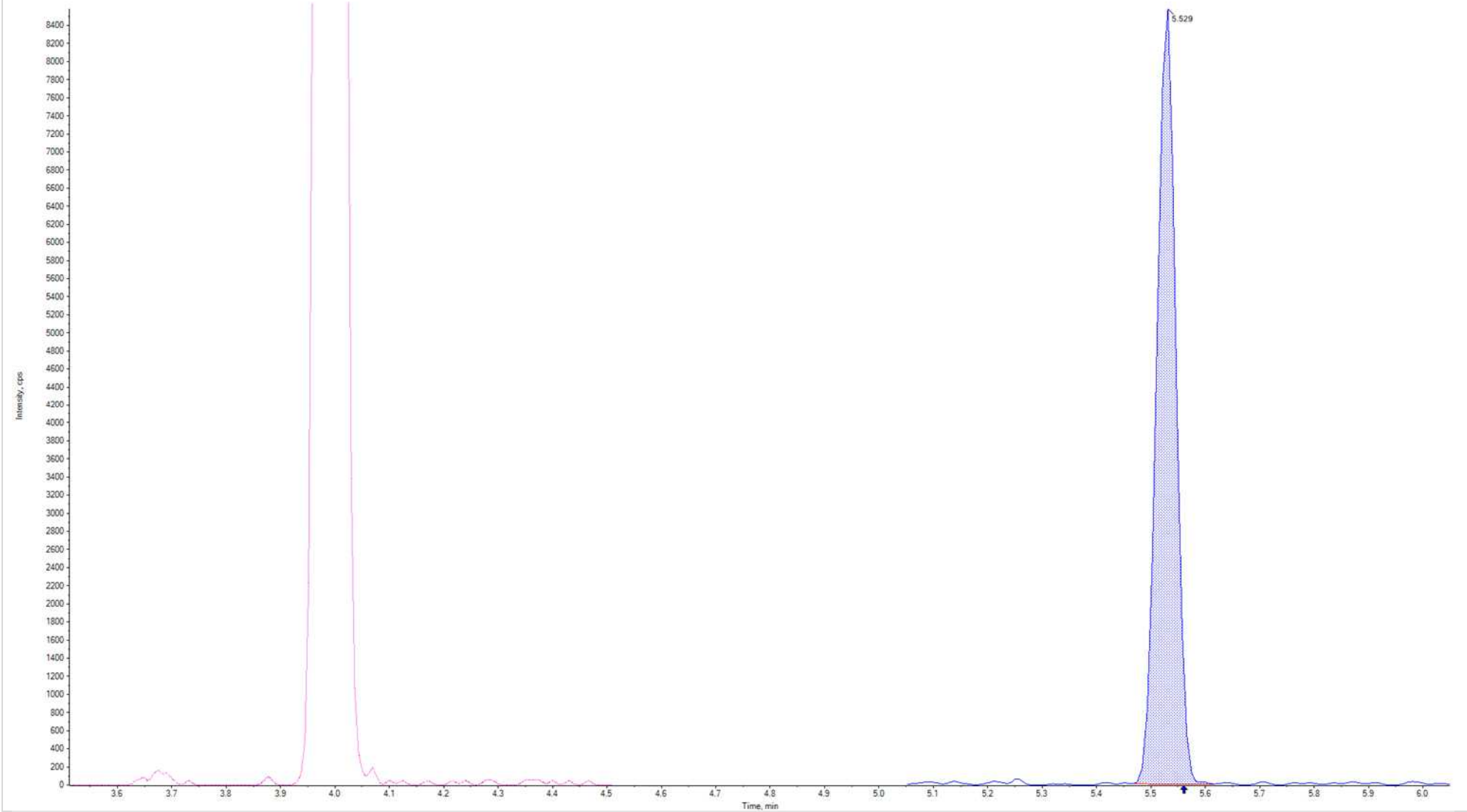
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFDS_2
Sample: WG2038851-1,1633LOW S/N:127.1 Points Across peak:22



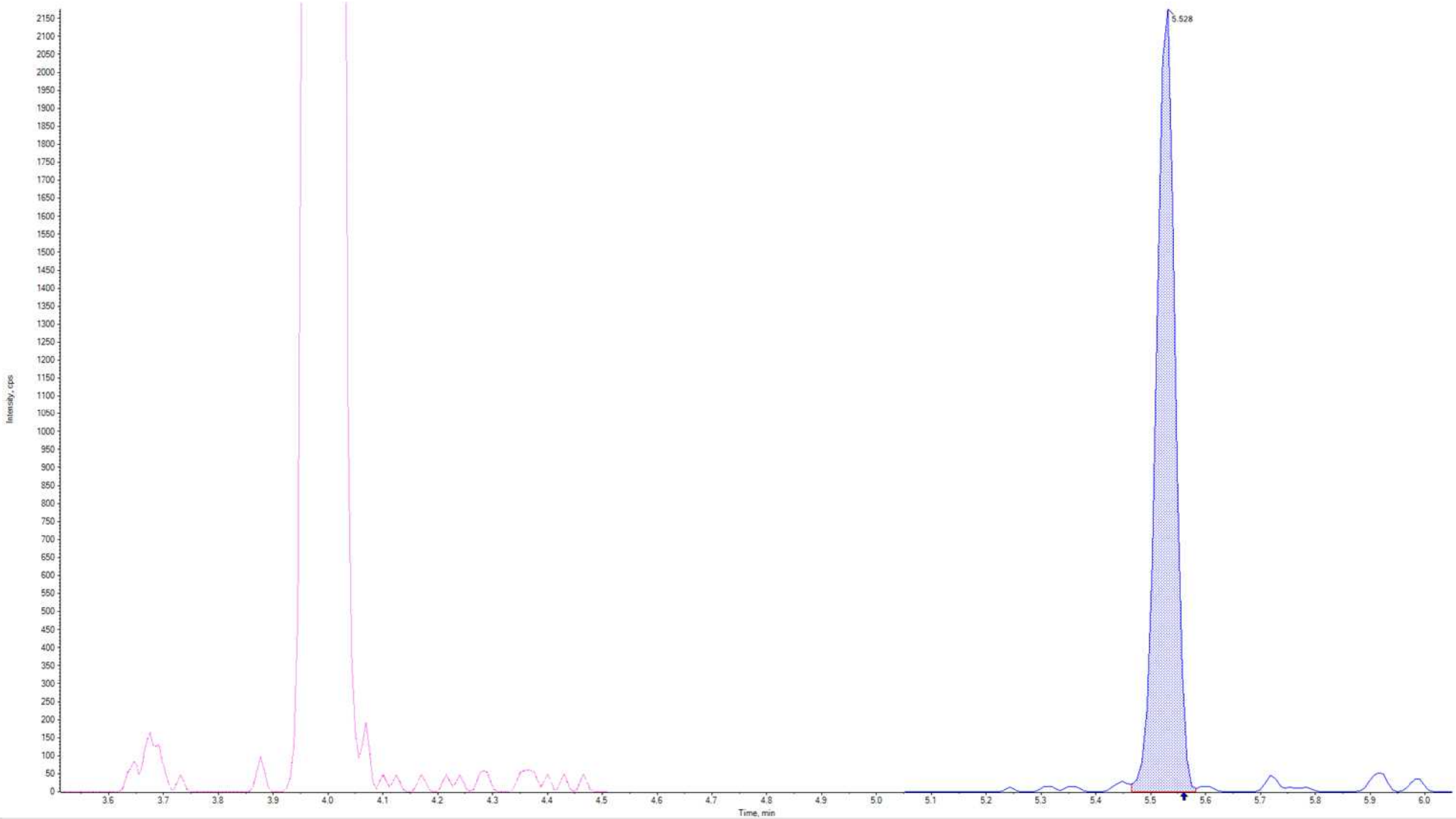
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFDoS
Sample: WG2038851-1,1633LOW S/N:665.8 Points Across peak:18



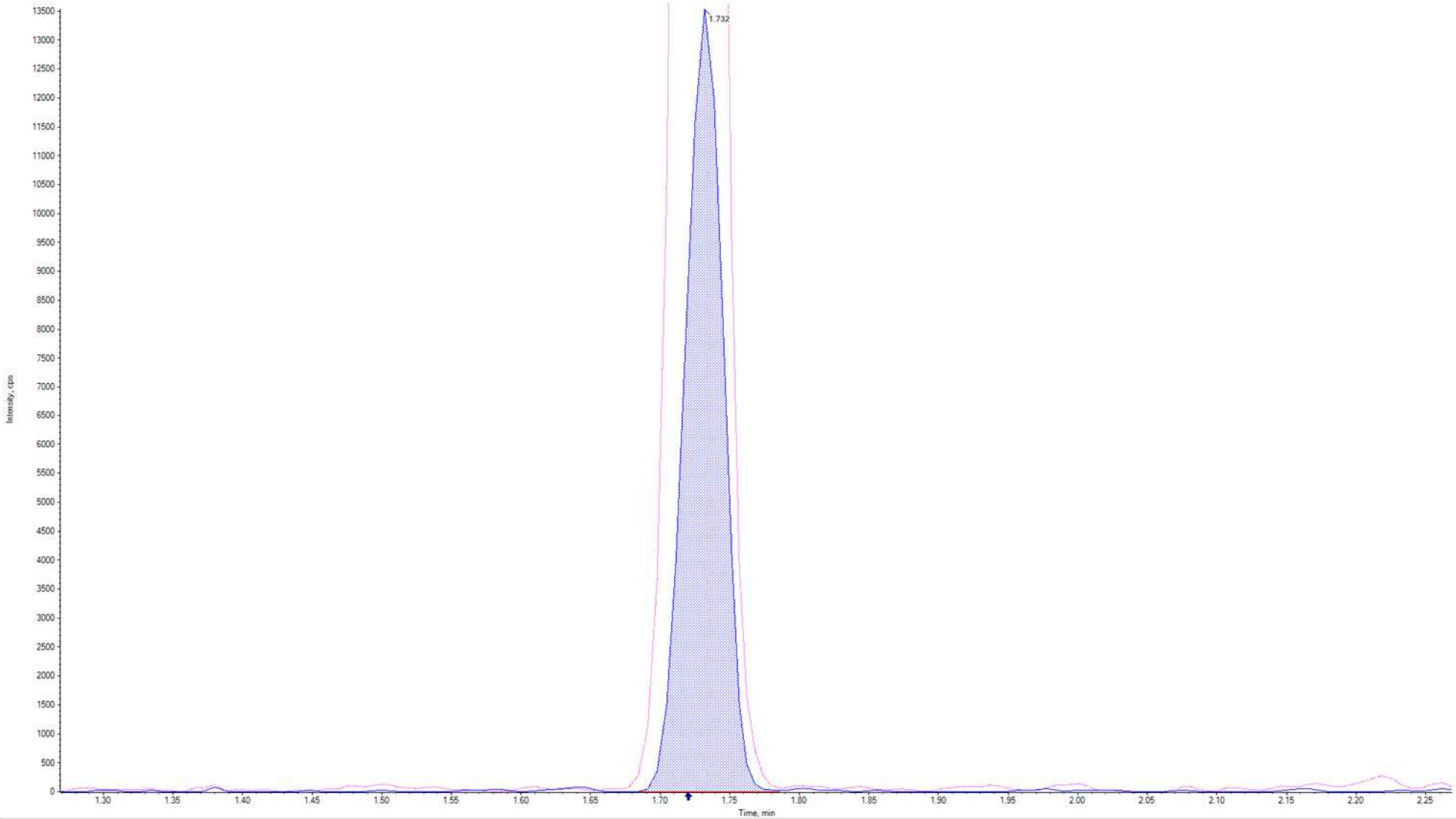
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFDoS_2
Sample: WG2038851-1,1633LOW S/N:169.1 Points Across peak:14



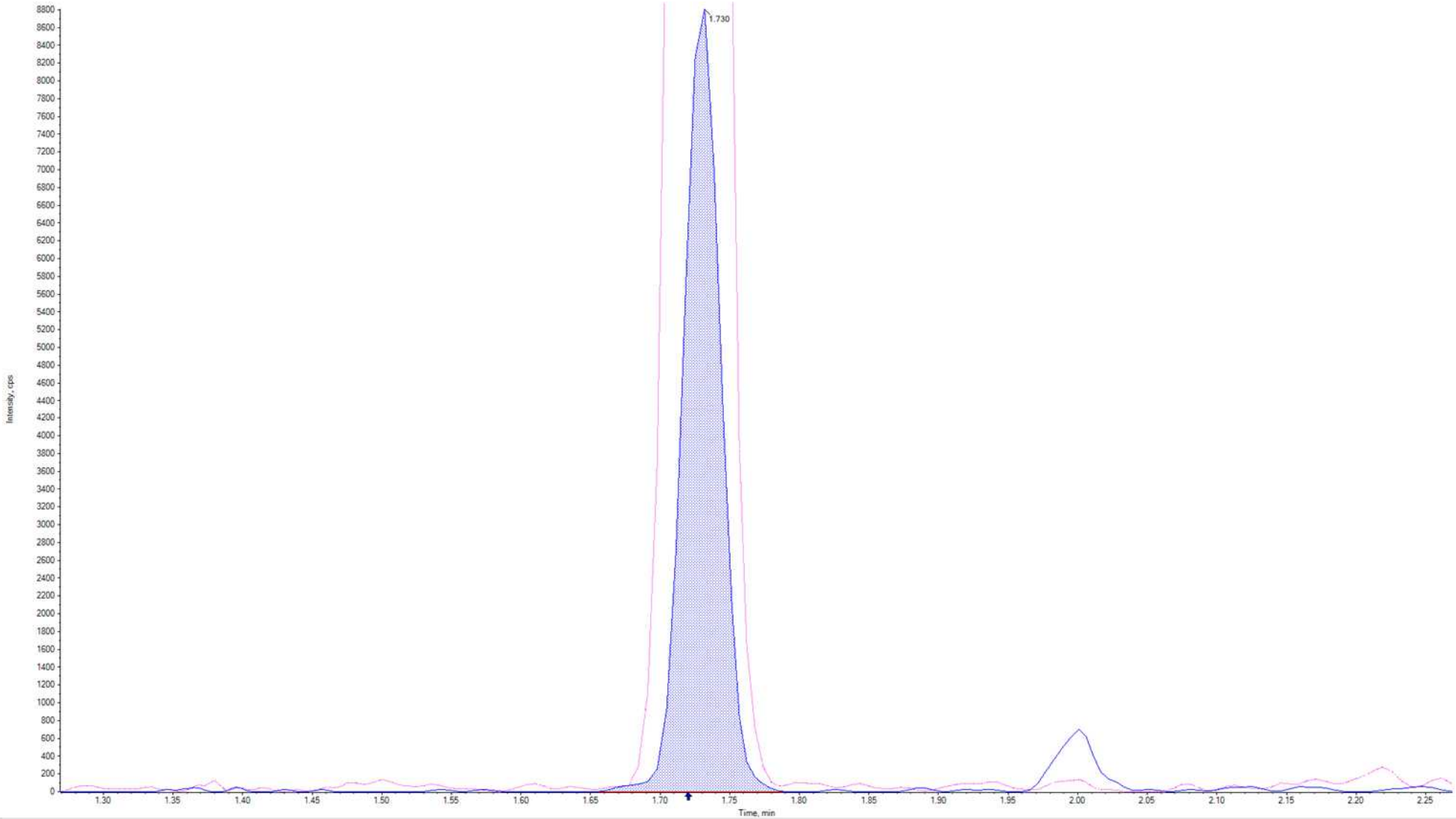
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

4:2FTS
Sample: WG2038851-1,1633LOW S/N:508.9 Points Across peak:18



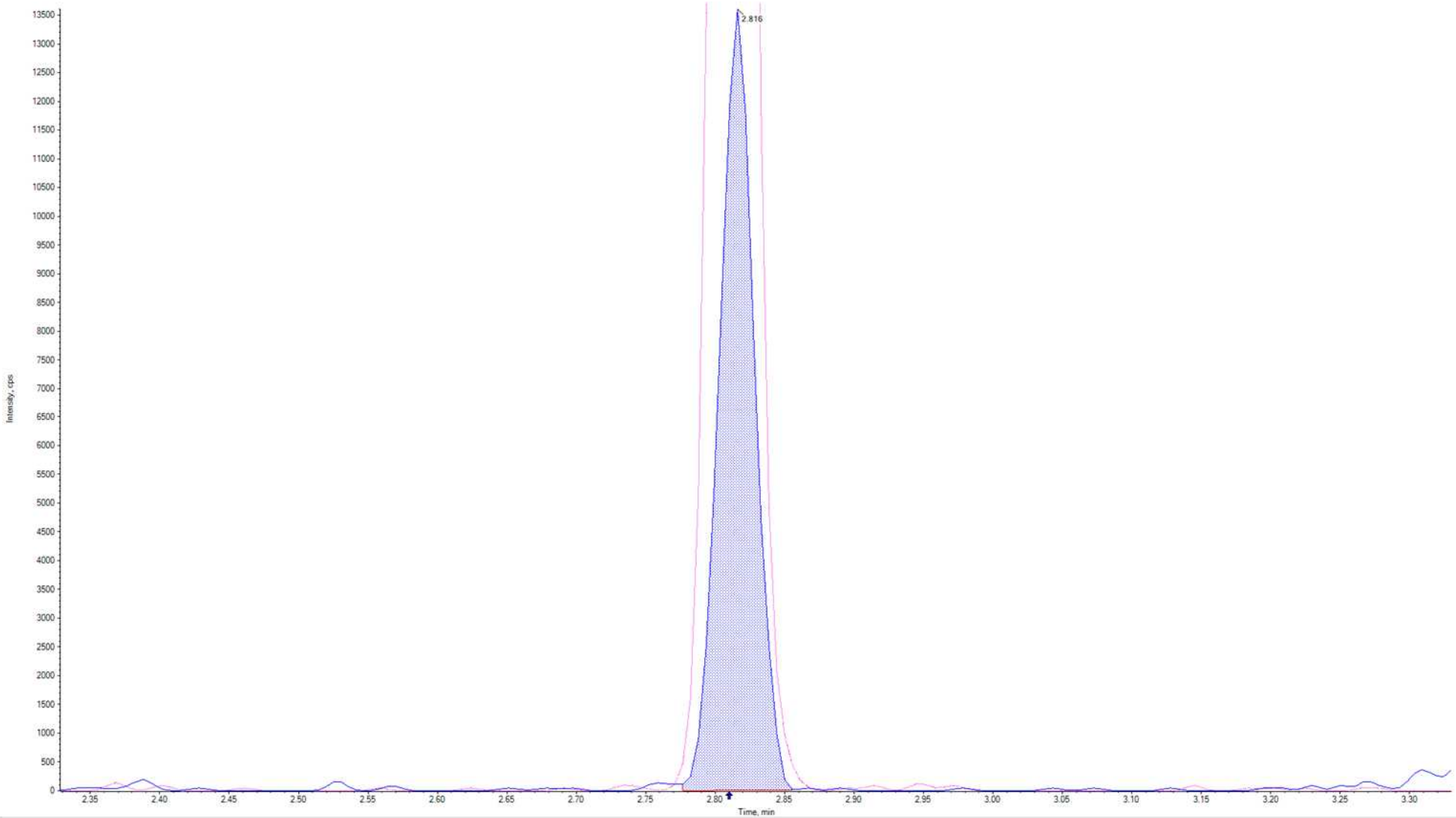
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

4:2FTS_2
Sample: WG2038851-1,1633LOW S/N:331.1 Points Across peak:27



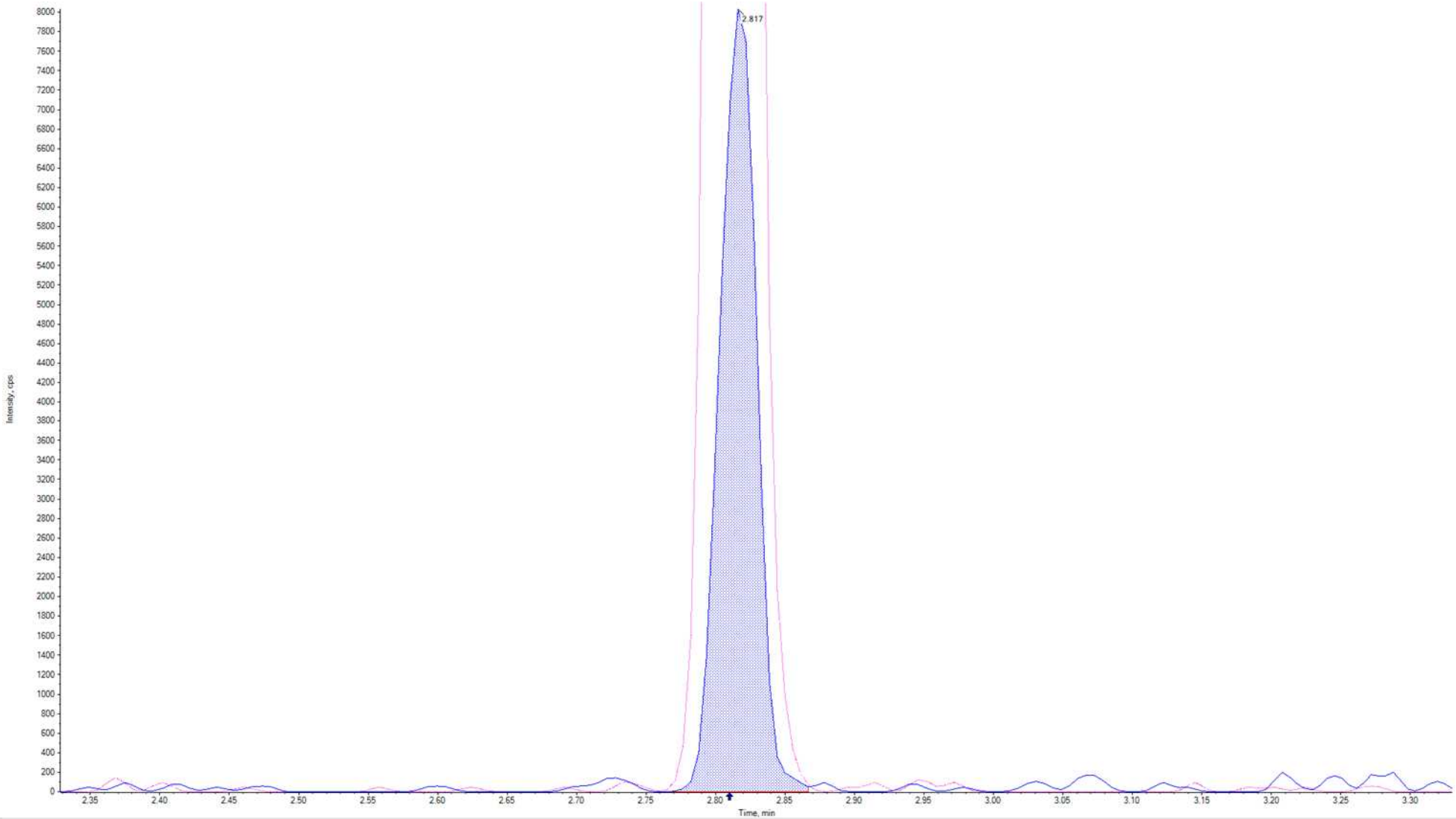
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

6:2FTS
Sample: WG2038851-1,1633LOW S/N:272.7 Points Across peak:15



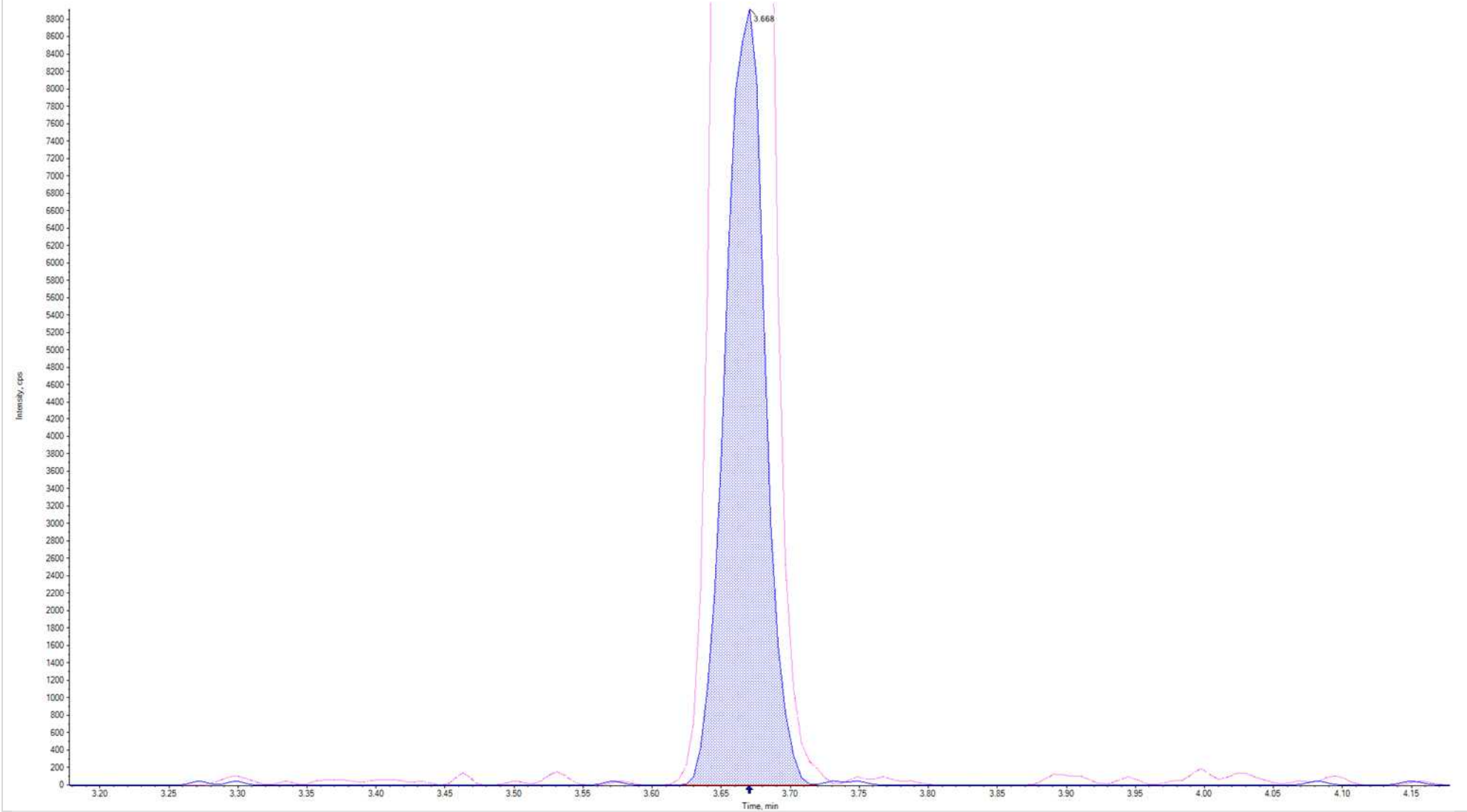
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

6:2FTS_2
Sample: WG2038851-1,1633LOW S/N:161.0 Points Across peak:19



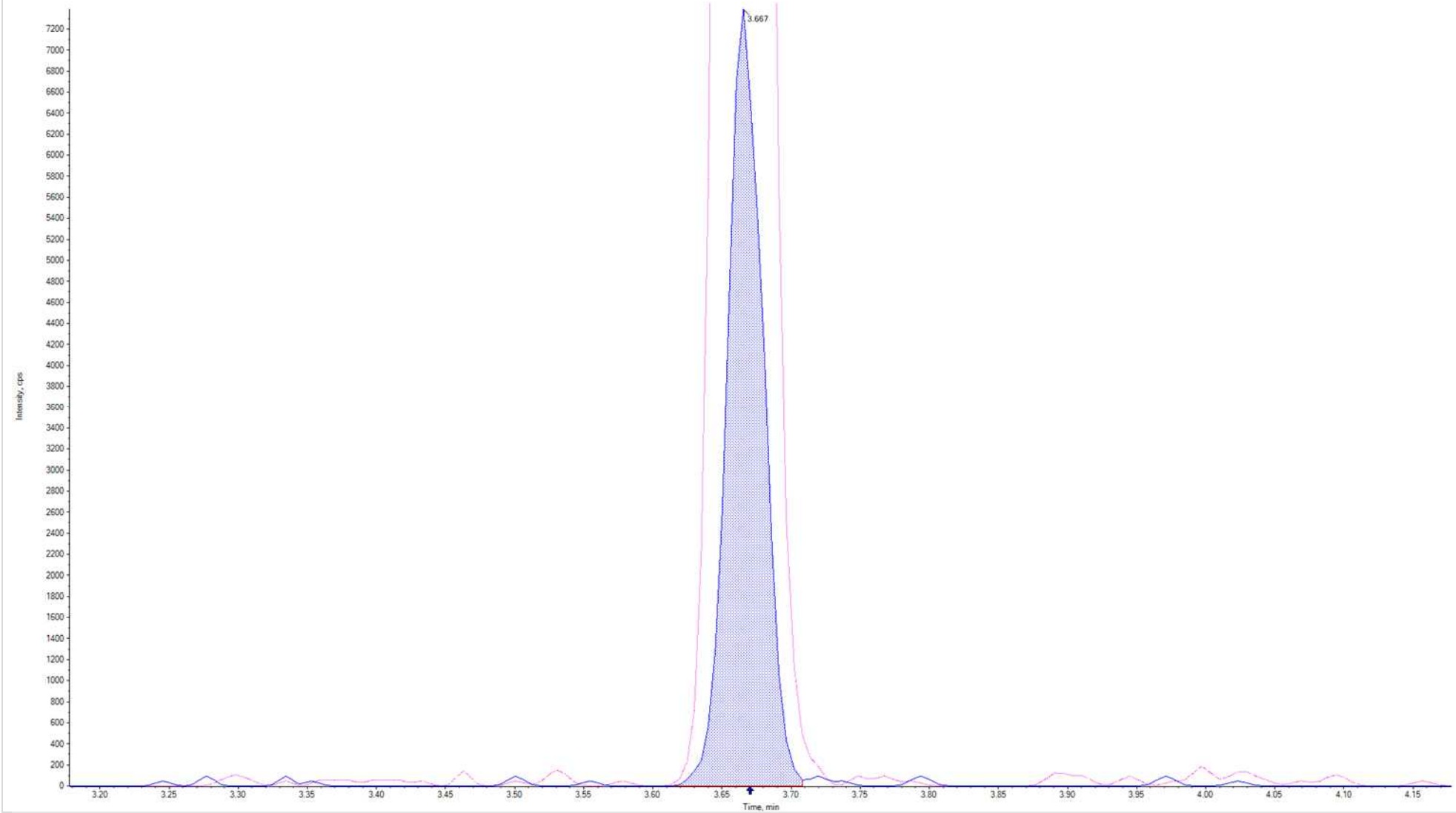
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

8:2FTS
Sample: WG2038851-1,1633LOW S/N:178.8 Points Across peak:23



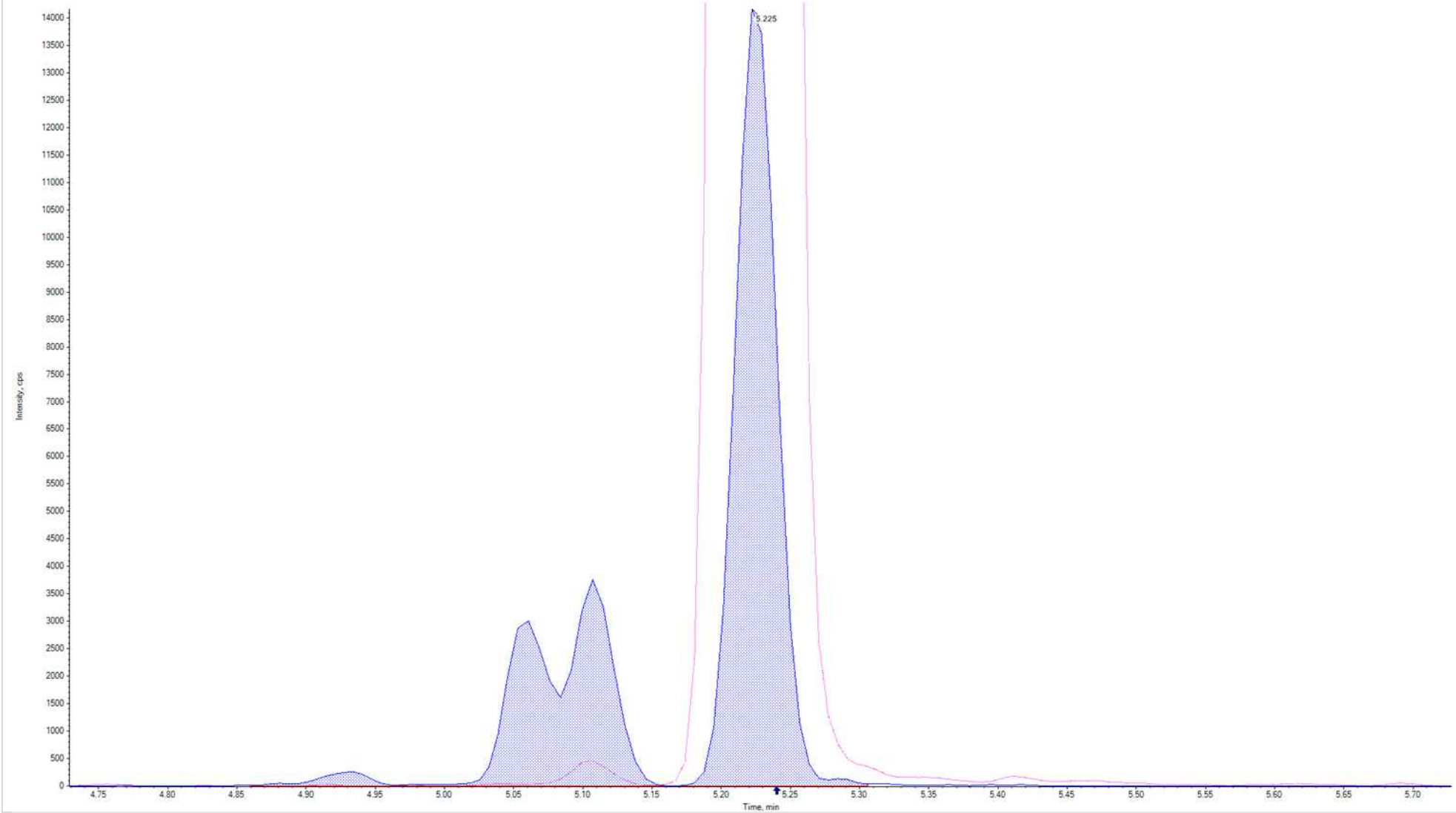
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

8:2FTS_2
Sample: WG2038851-1,1633LOW S/N:148.2 Points Across peak:21



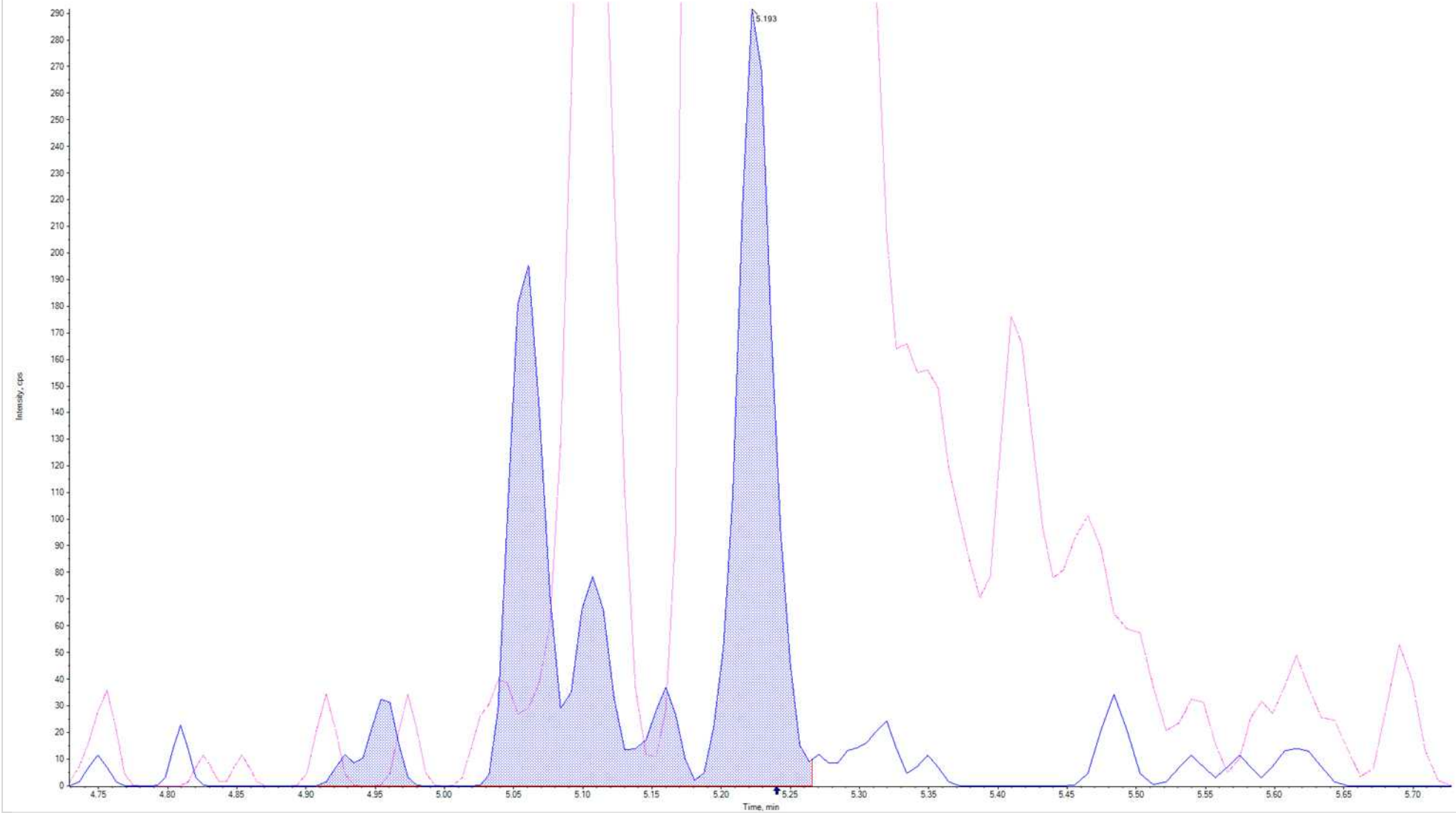
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFOSA
Sample: WG2038851-1,1633LOW S/N:300.5 Points Across peak:67



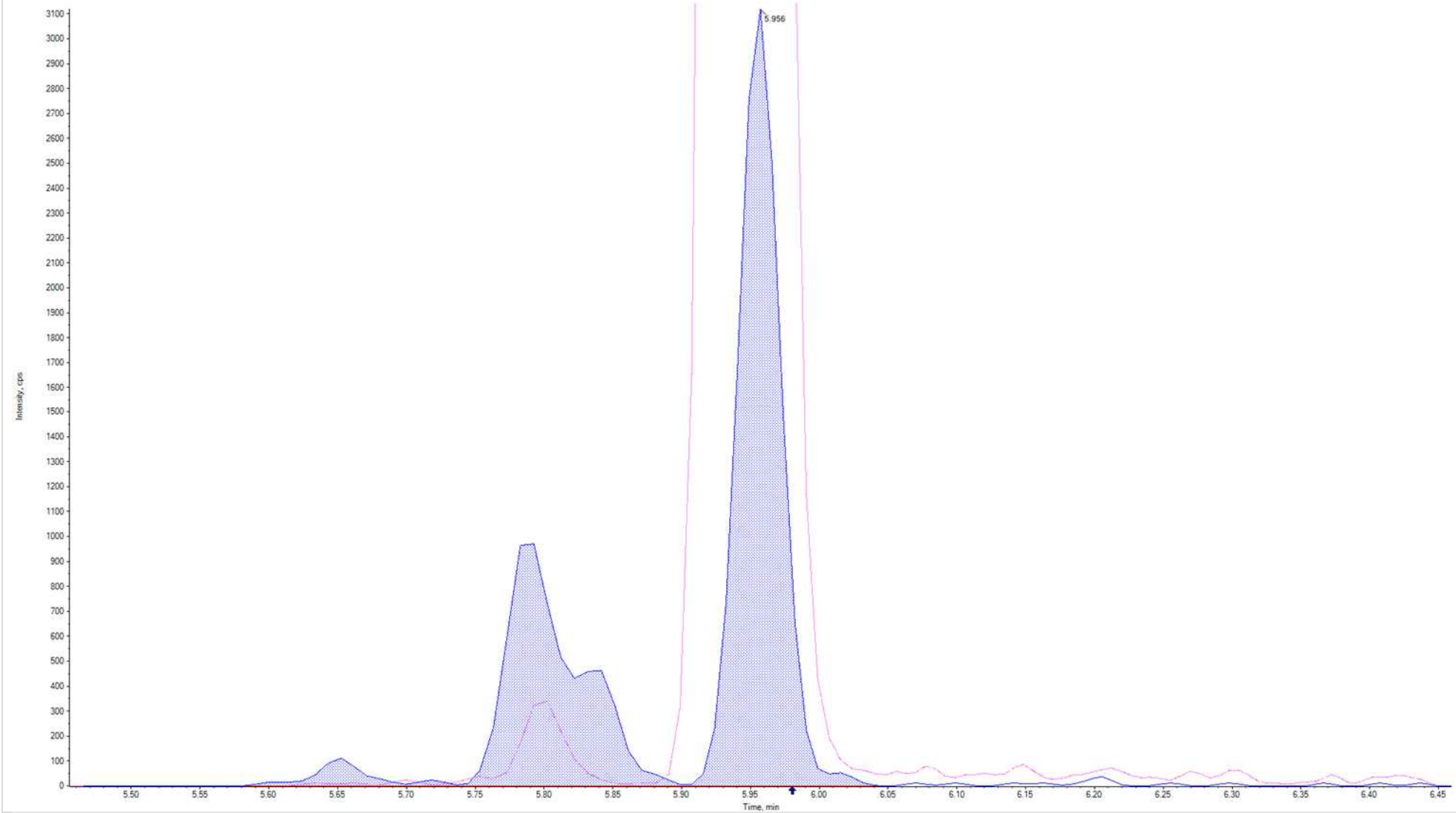
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFOSA_2
Sample: WG2038851-1,1633LOW S/N:25.6 Points Across peak:53



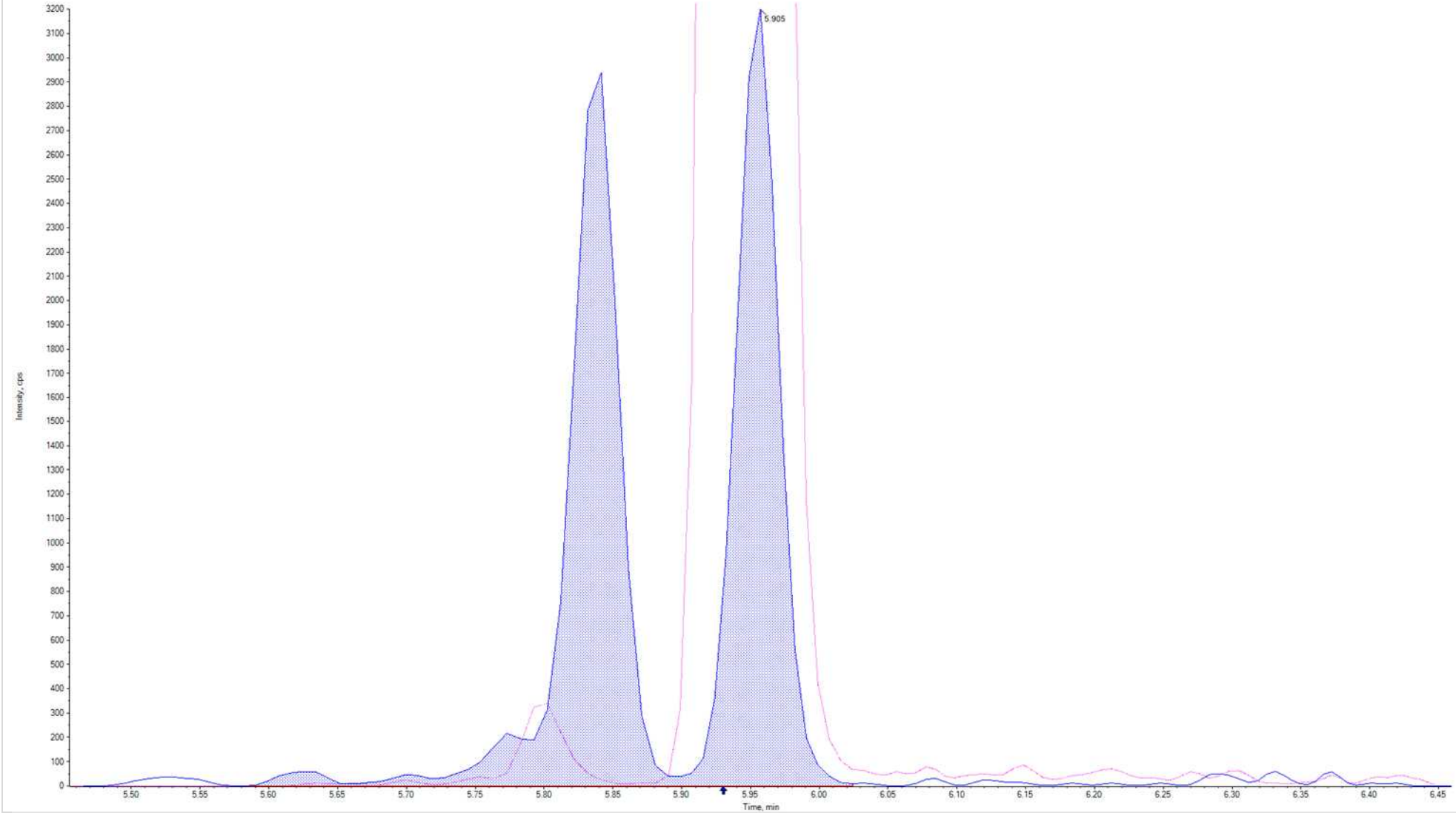
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Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

NMeFOSA
Sample: WG2038851-1,1633LOW S/N:215.2 Points Across peak:54



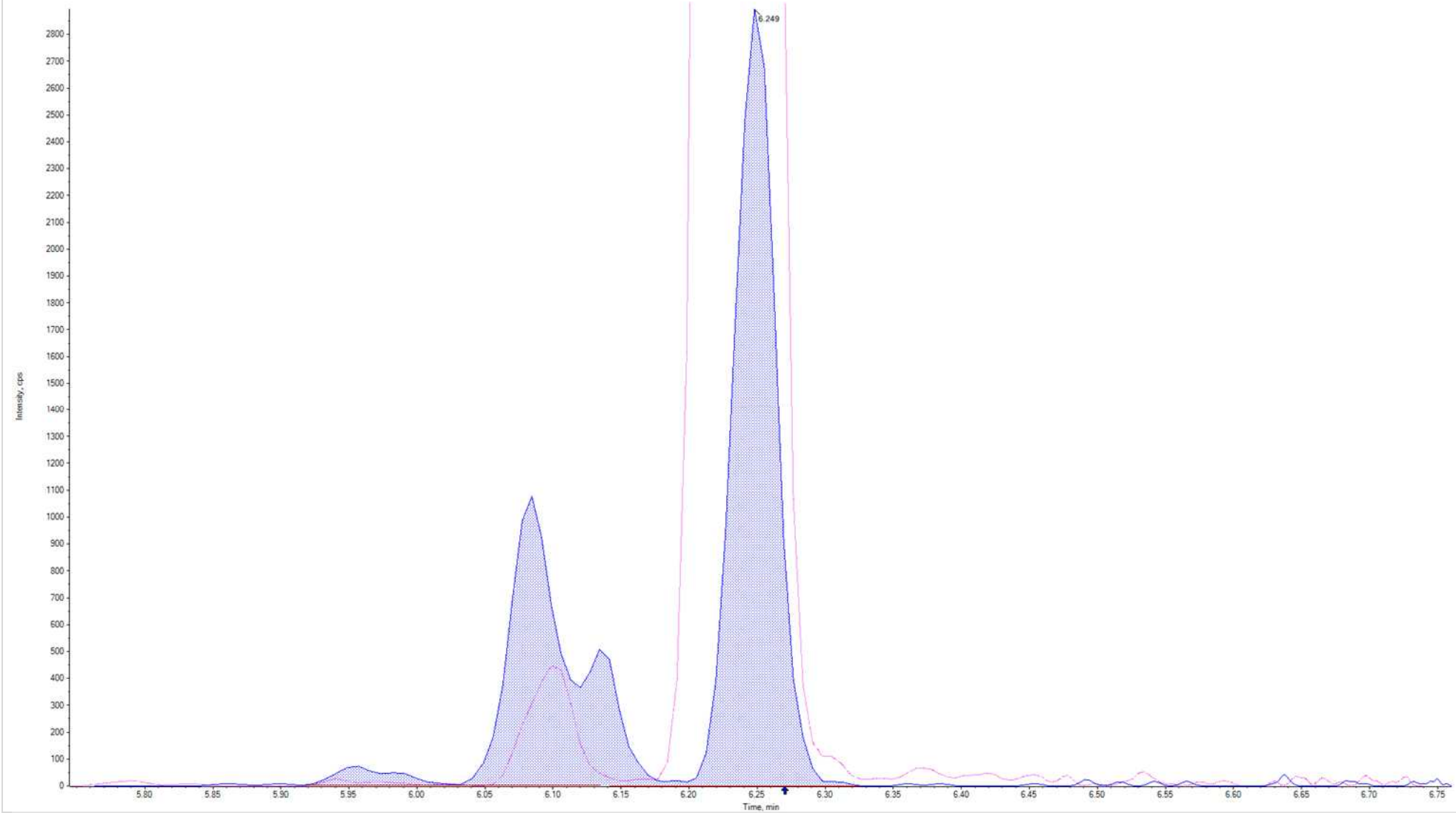
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

NMeFOSA_2
Sample: WG2038851-1,1633LOW S/N:121.0 Points Across peak:51



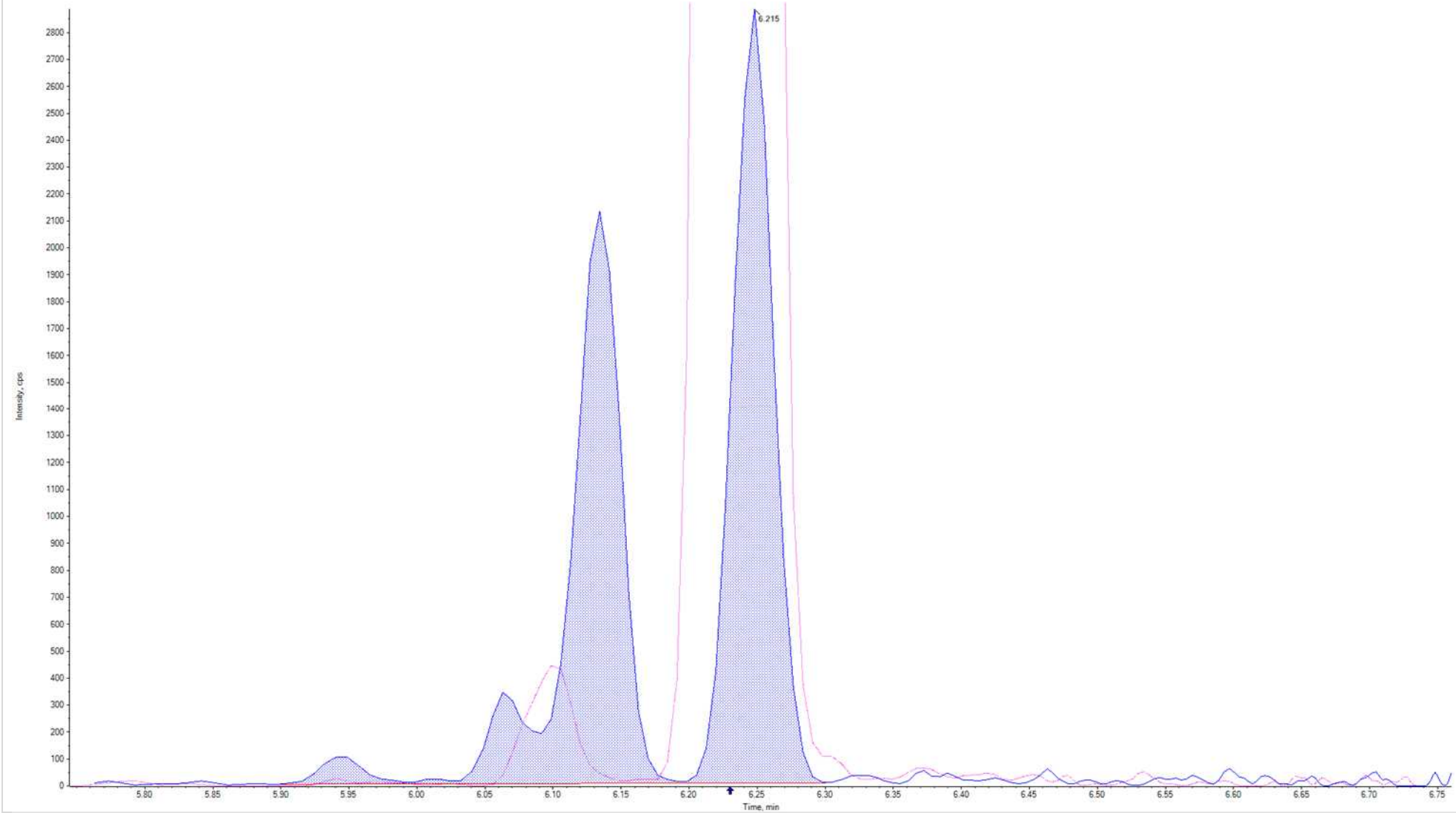
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

NEtFOSA
Sample: WG2038851-1,1633LOW S/N:306.7 Points Across peak:58



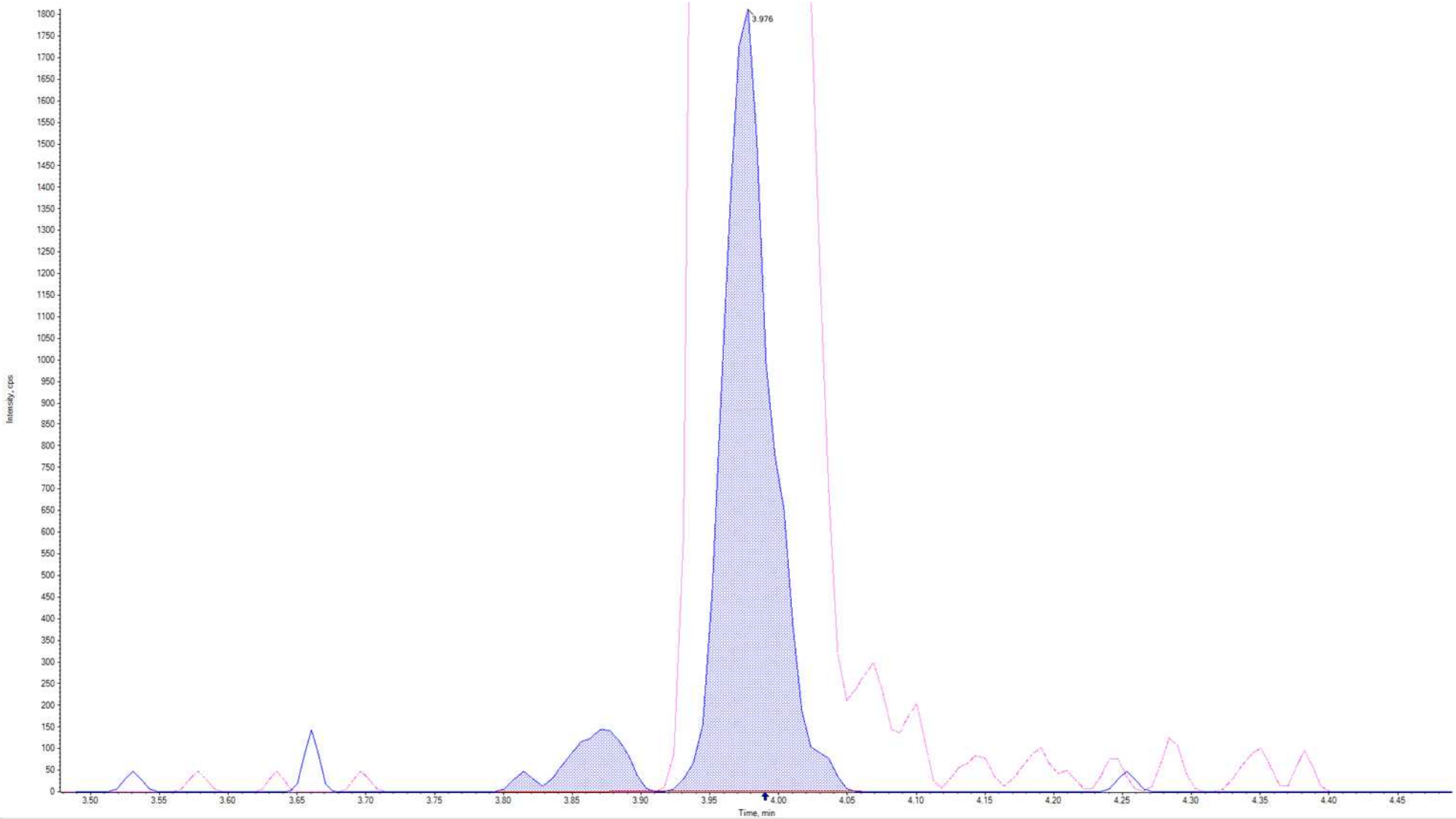
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

NEtFOSA_2
Sample: WG2038851-1,1633LOW S/N:179.6 Points Across peak:55



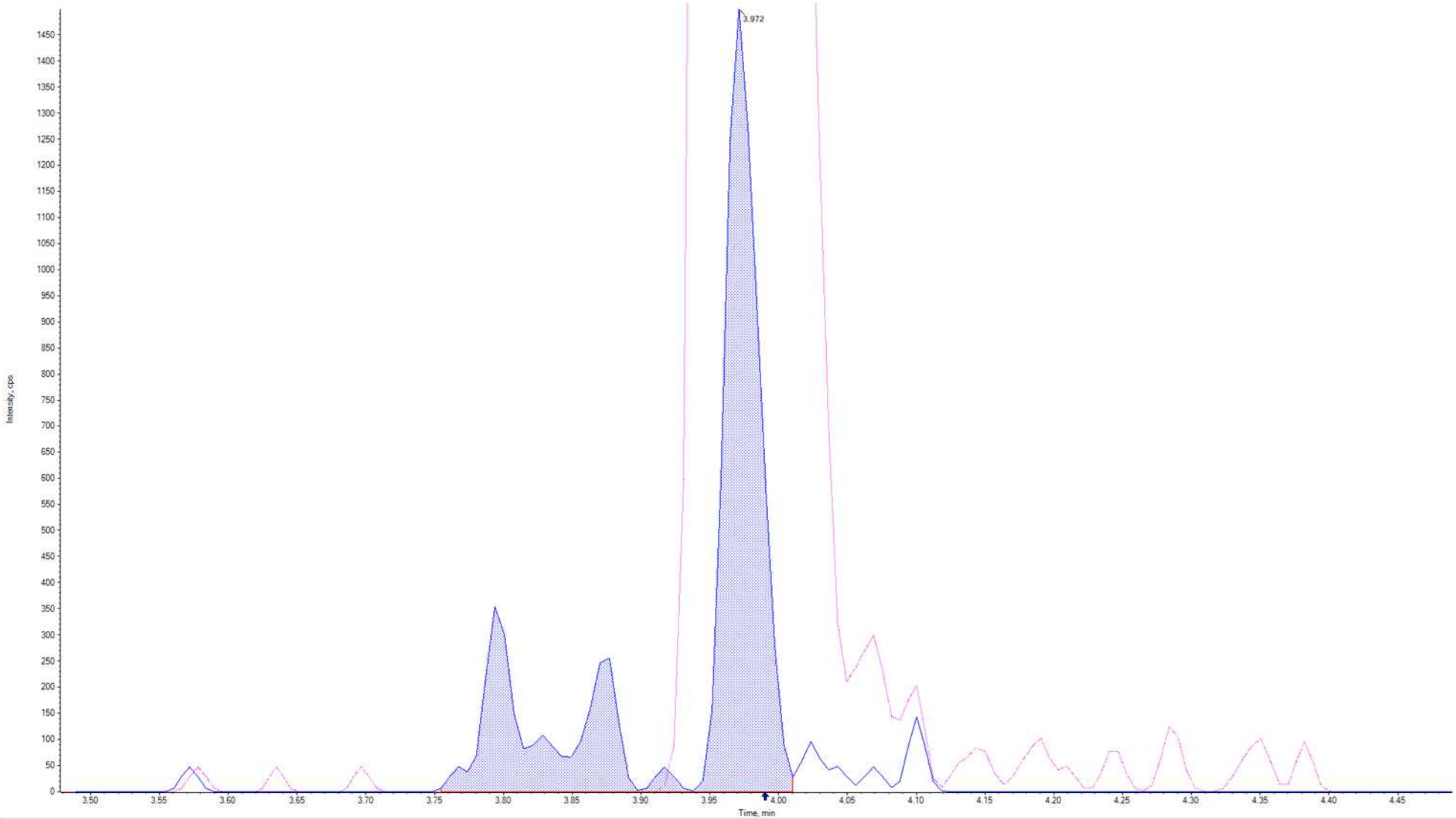
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

NMeFOSAA
Sample: WG2038851-1,1633LOW S/N:36.3 Points Across peak:41



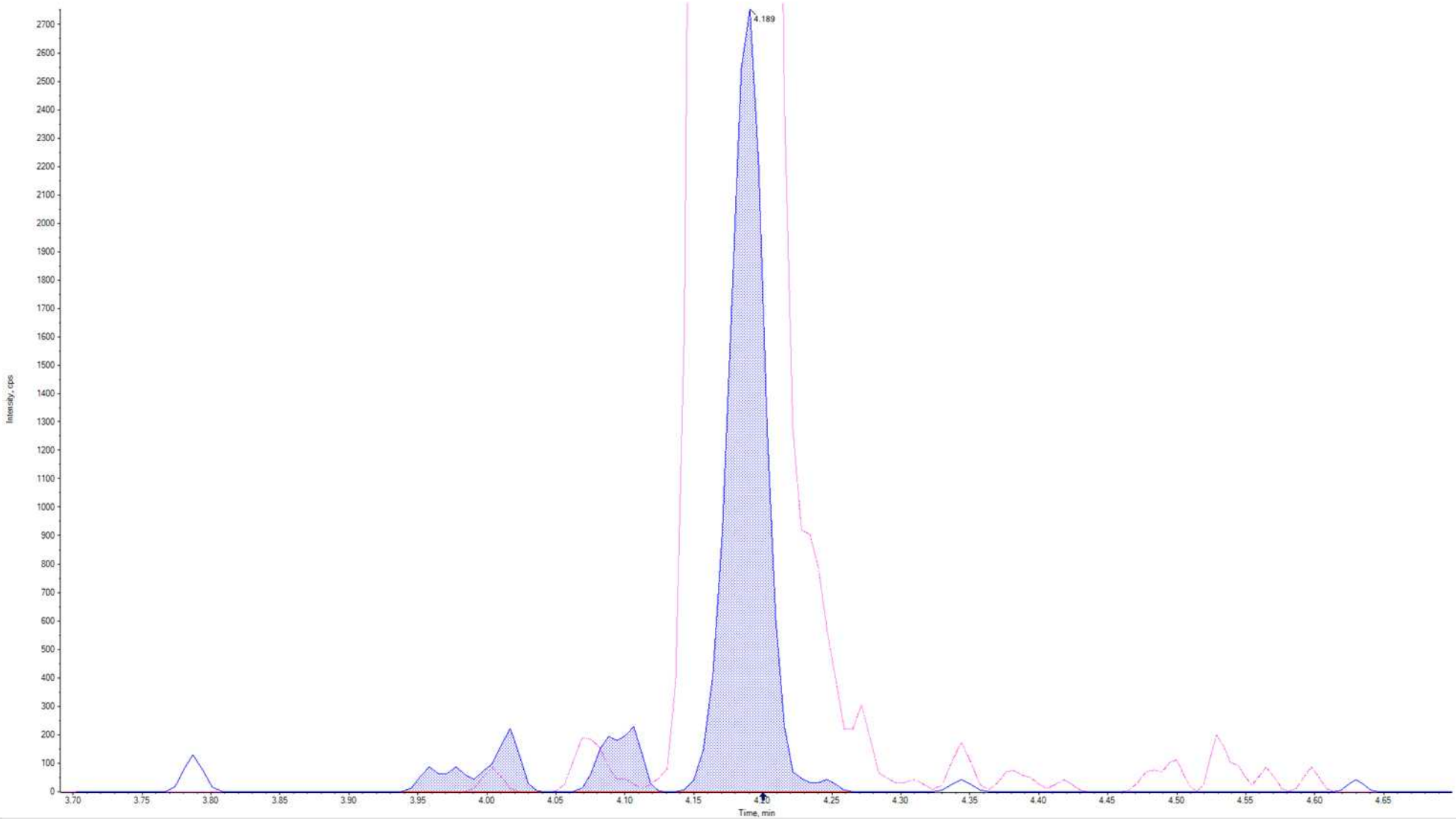
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

NMeFOSAA_2
Sample: WG2038851-1,1633LOW S/N:30.1 Points Across peak:39



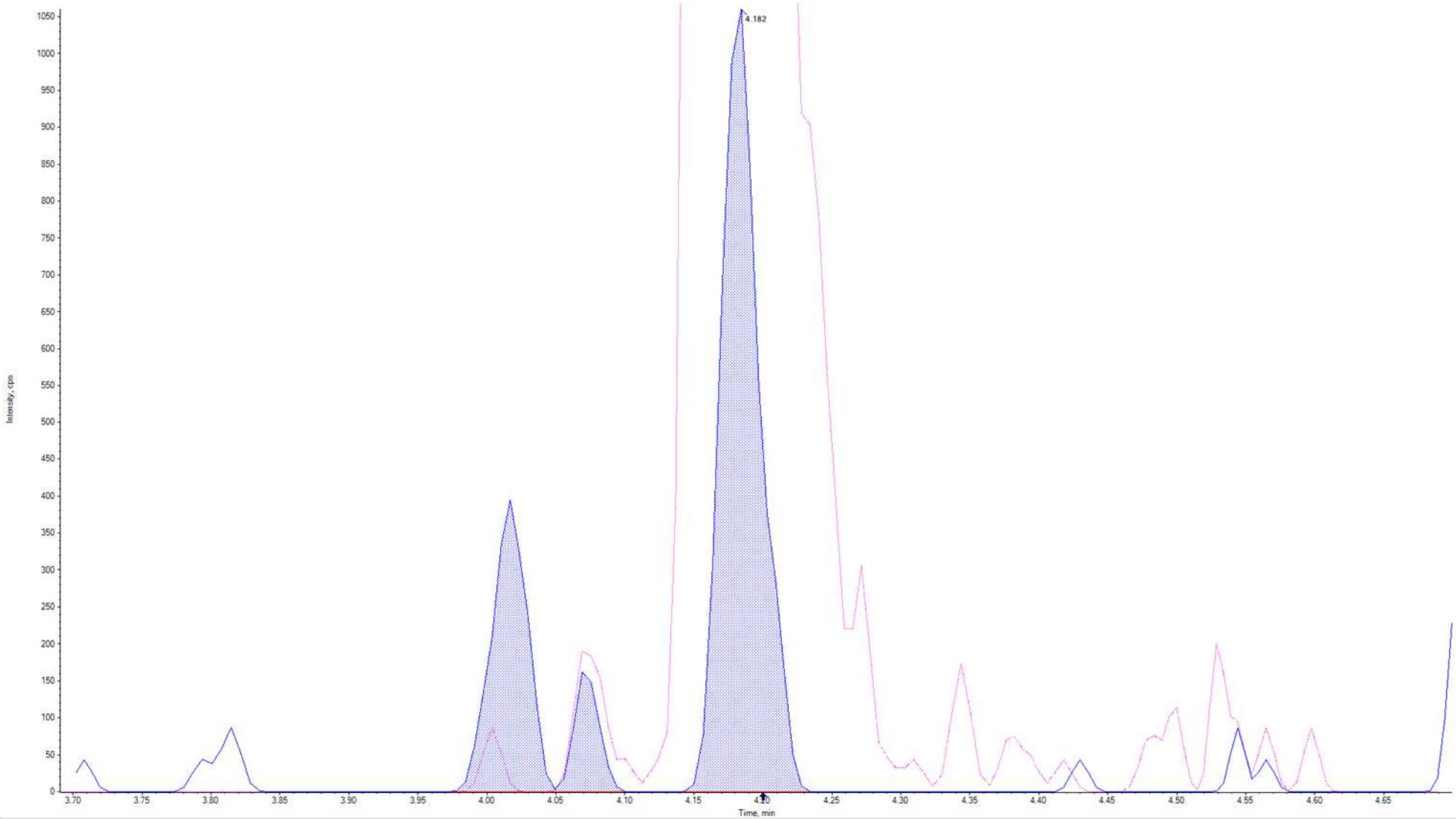
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

NEtFOSAA
Sample: WG2038851-1,1633LOW S/N:62.1 Points Across peak:54



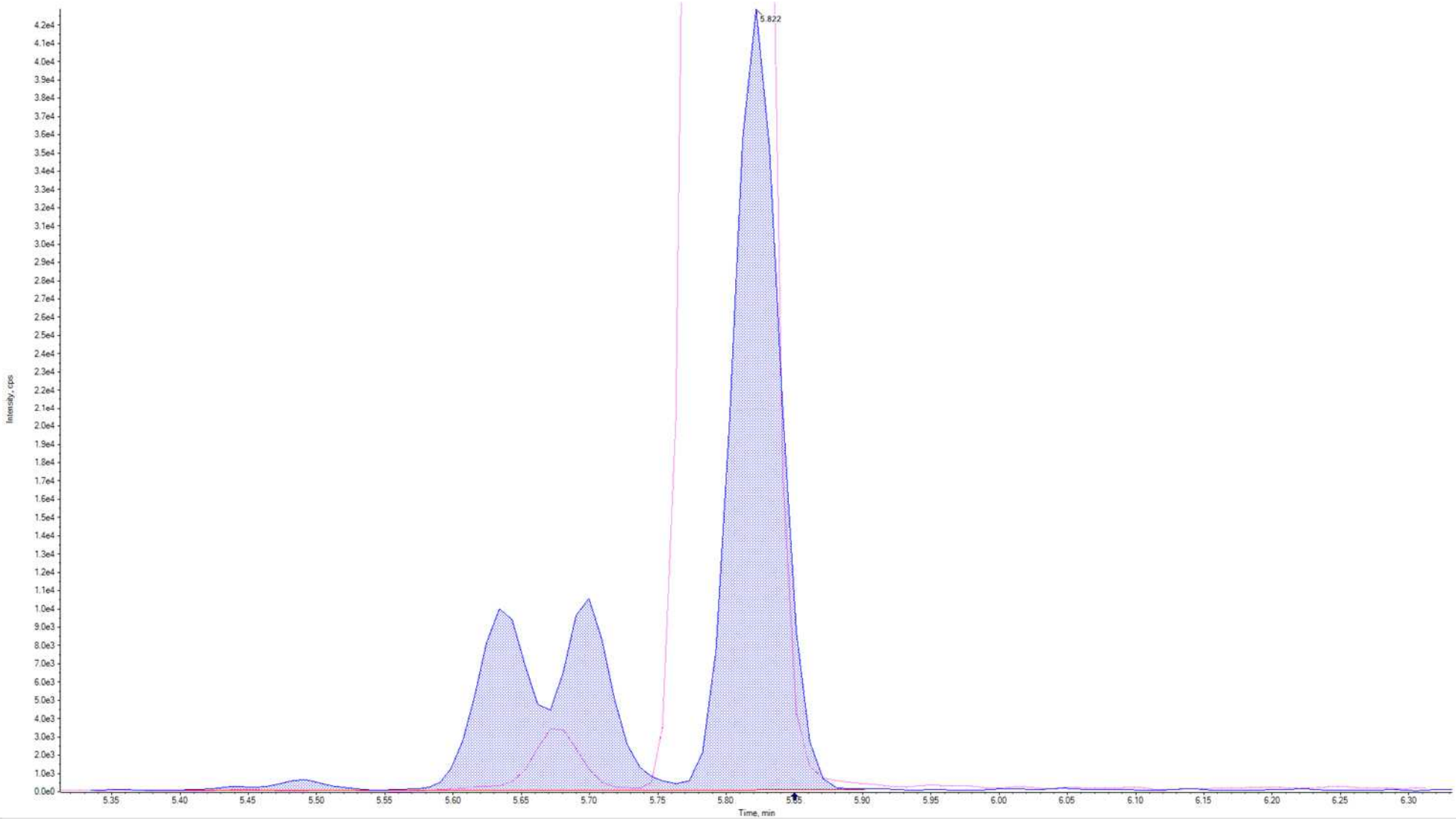
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

NEtFOSAA_2
Sample: WG2038851-1,1633LOW S/N:23.9 Points Across peak:44



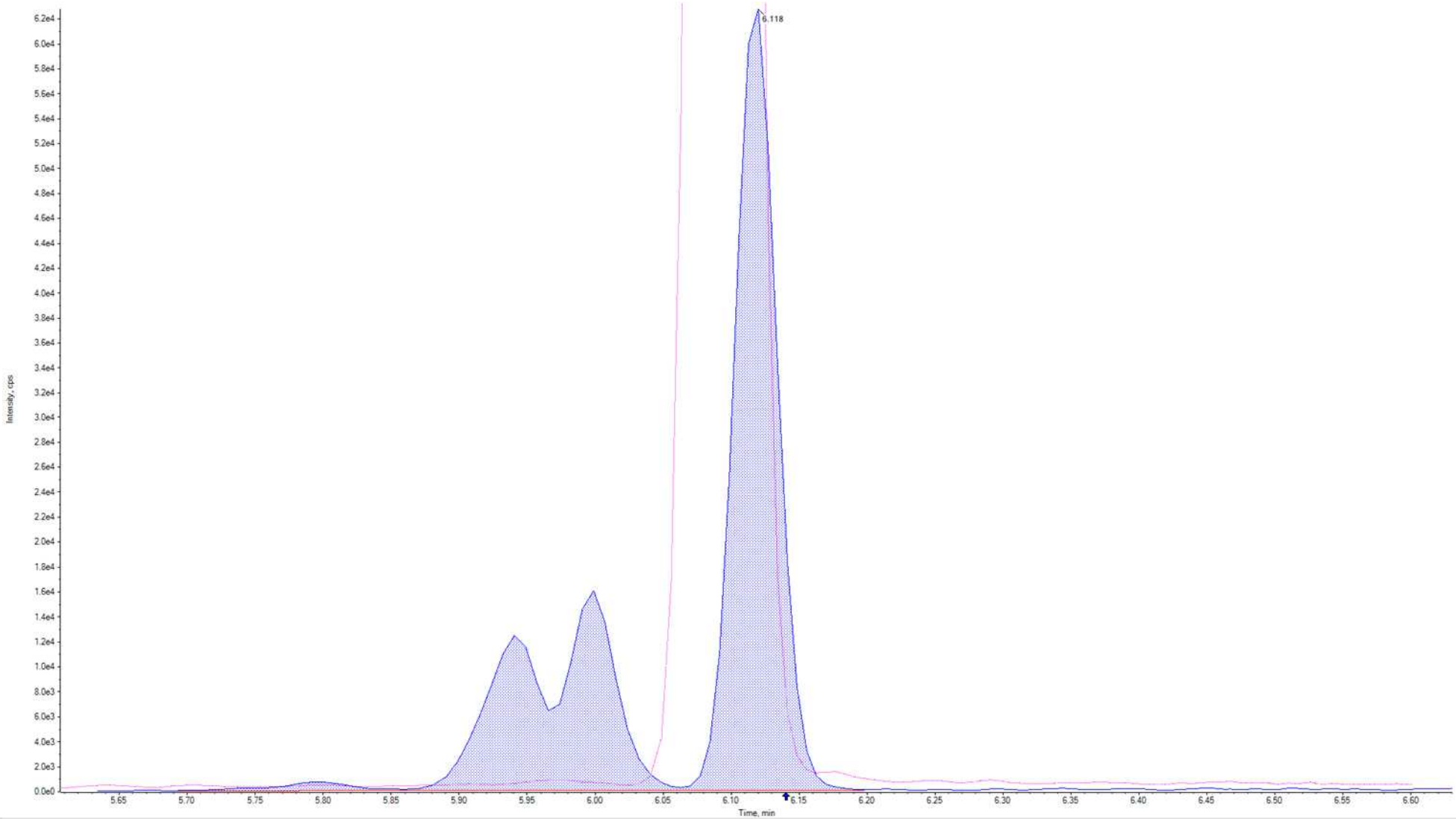
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

NMeFOSE
Sample: WG2038851-1,1633LOW S/N:219.7 Points Across peak:59



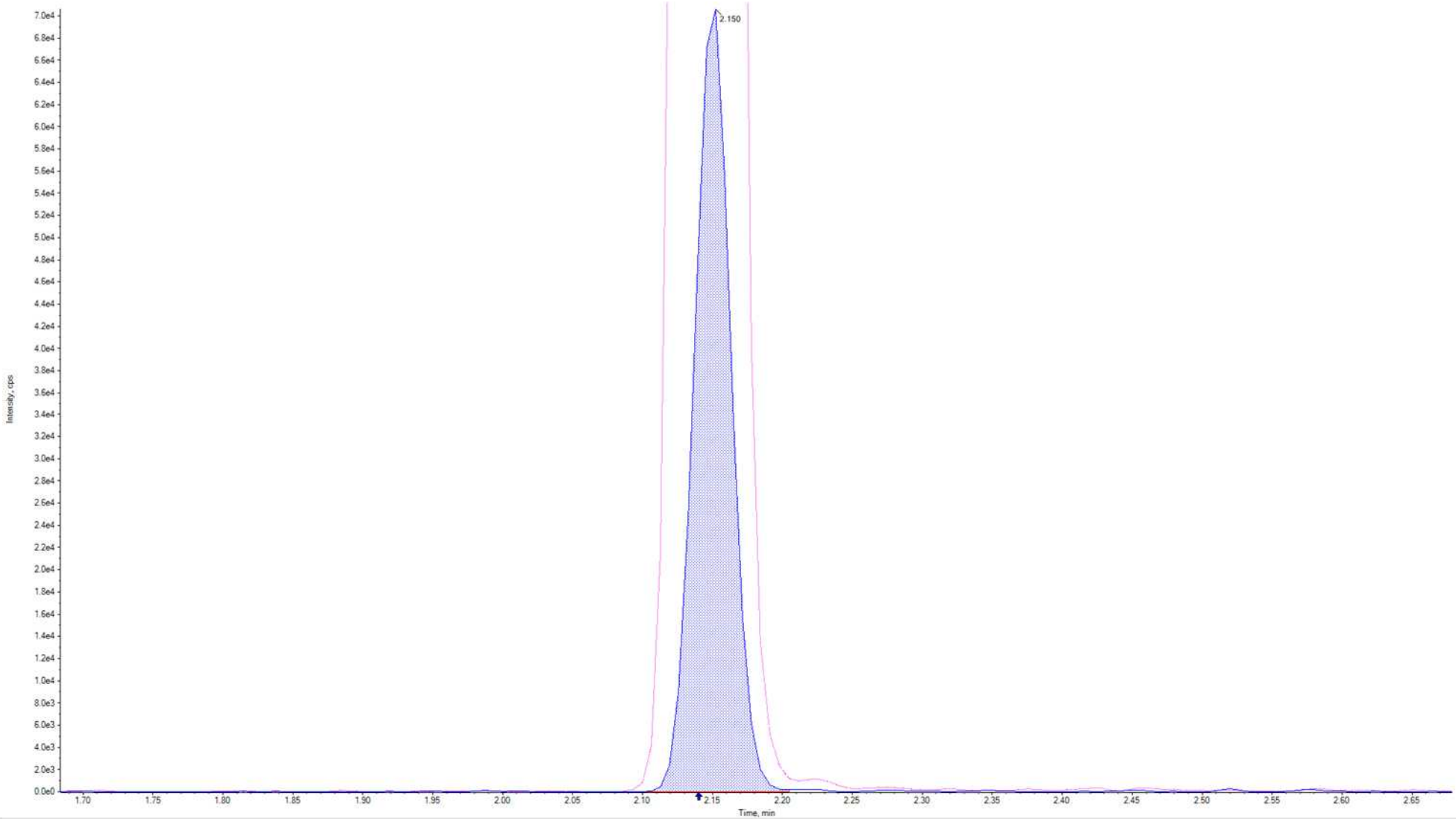
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

NEtFOSE
Sample: WG2038851-1,1633LOW S/N:356.6 Points Across peak:62



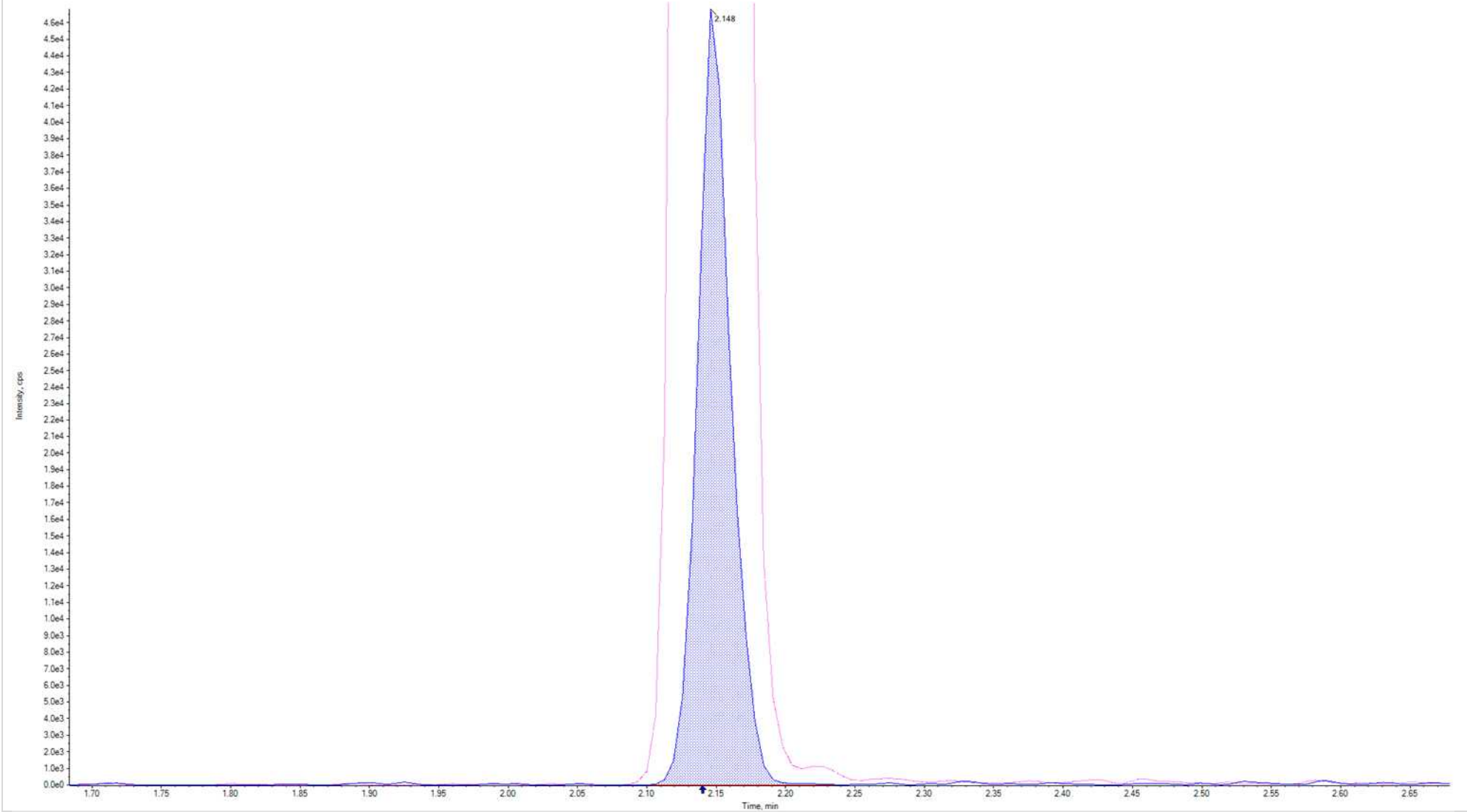
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

HFPO-DA
Sample: WG2038851-1,1633LOW S/N:1592.7 Points Across peak:19



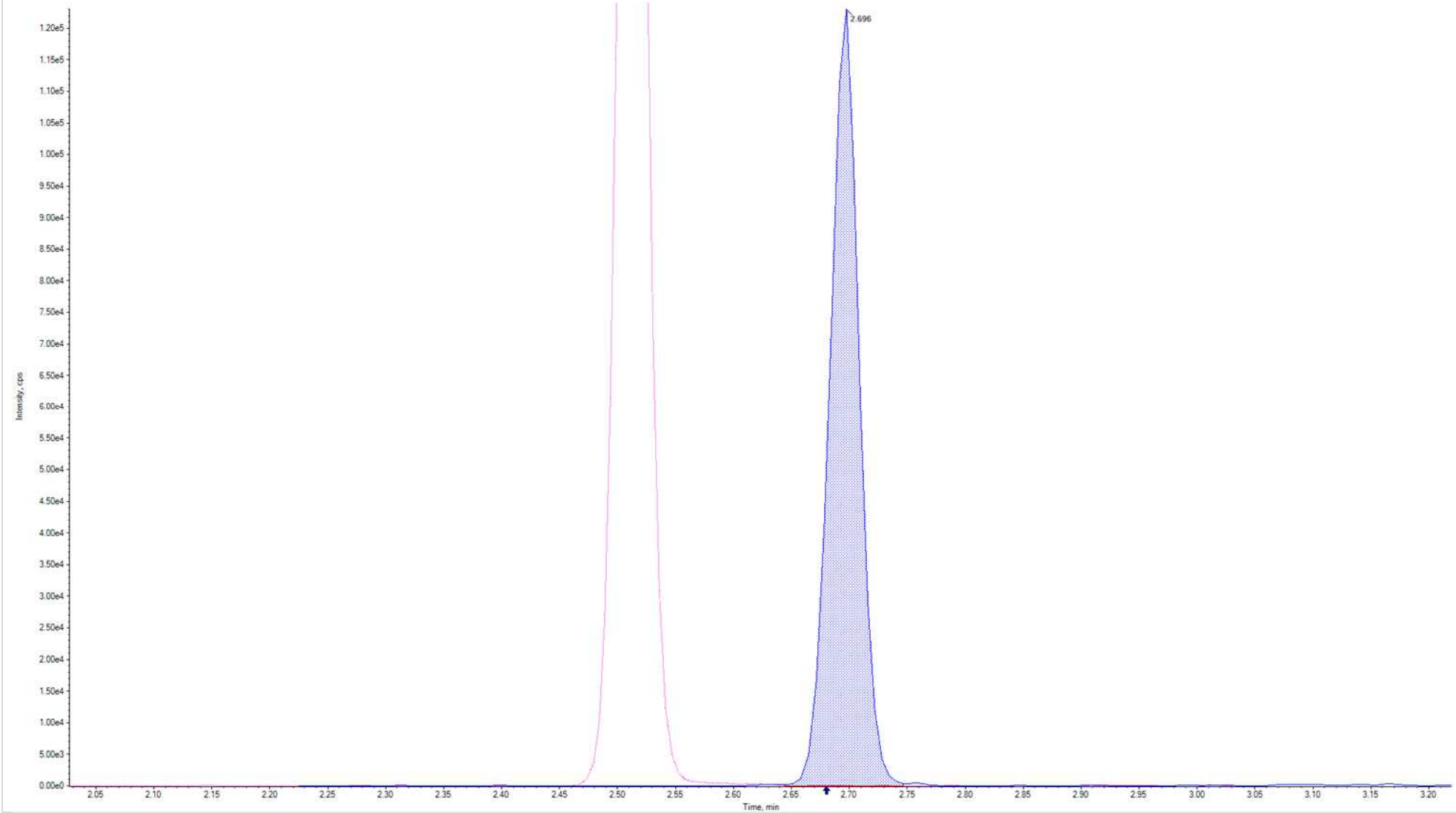
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

HFPO-DA_2
Sample: WG2038851-1,1633LOW S/N:1056.1 Points Across peak:23



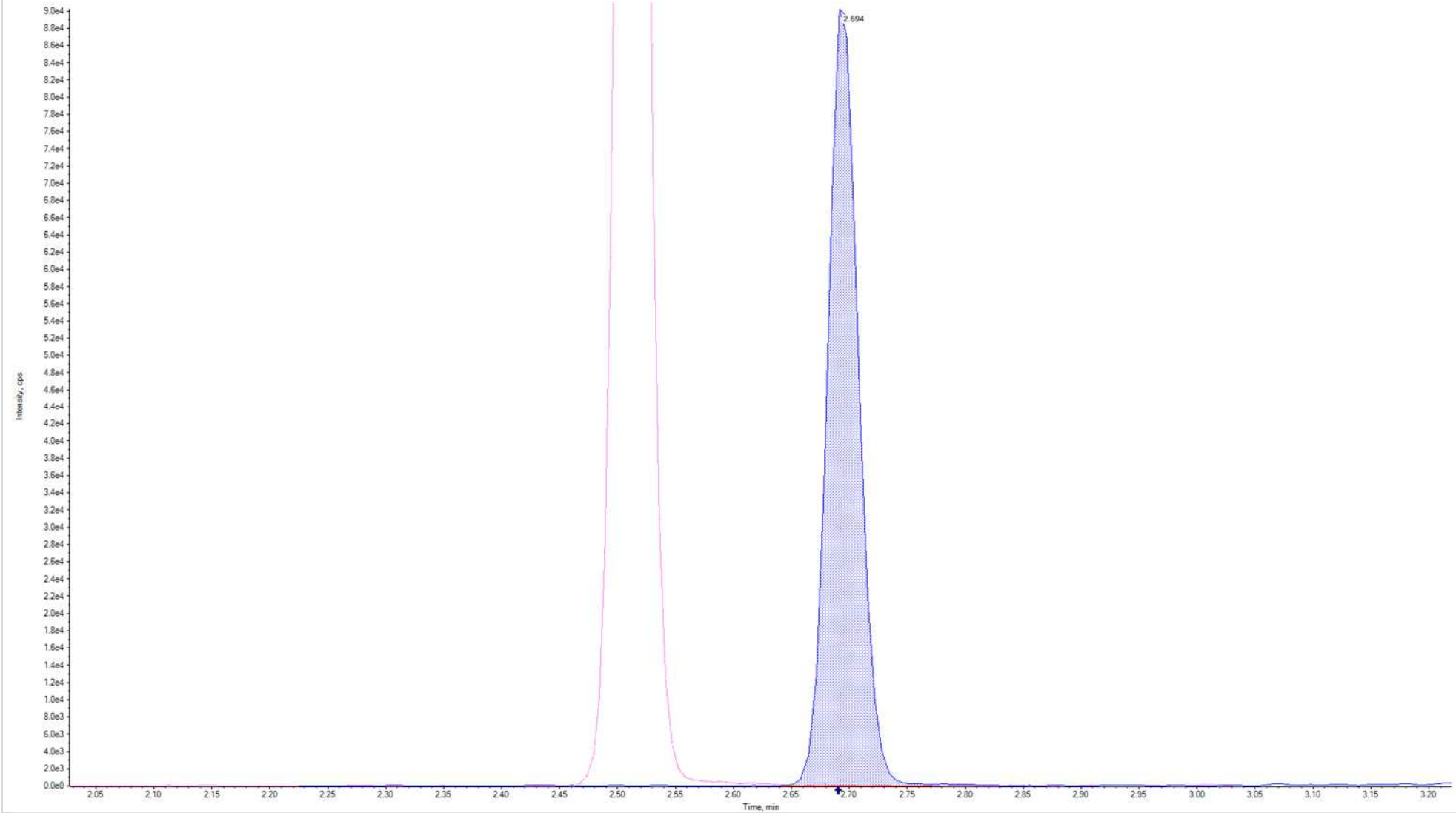
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

ADONA
Sample: WG2038851-1,1633LOW S/N:2466.7 Points Across peak:17



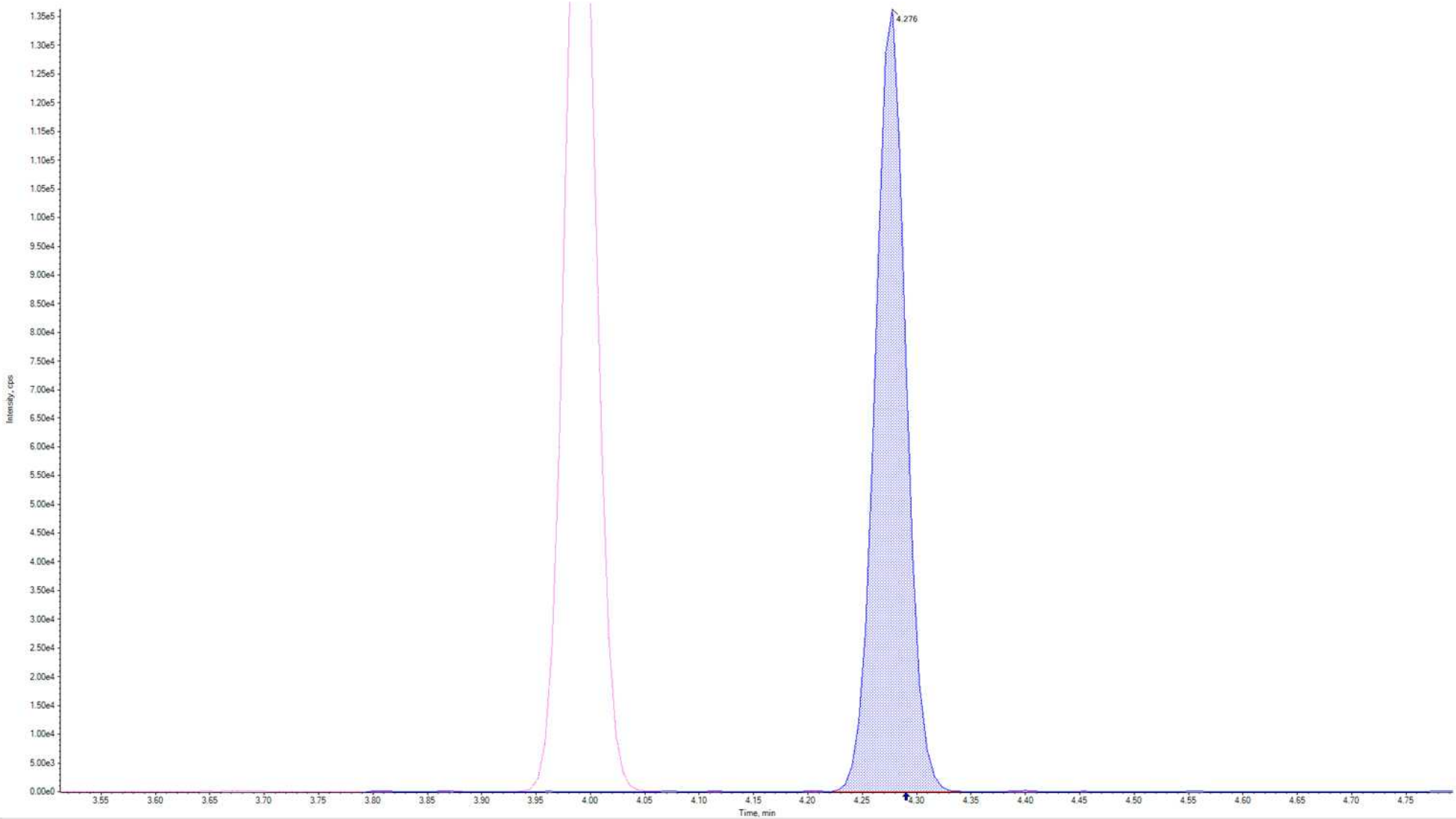
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

ADONA_2
Sample: WG2038851-1,1633LOW S/N:1808.9 Points Across peak:23



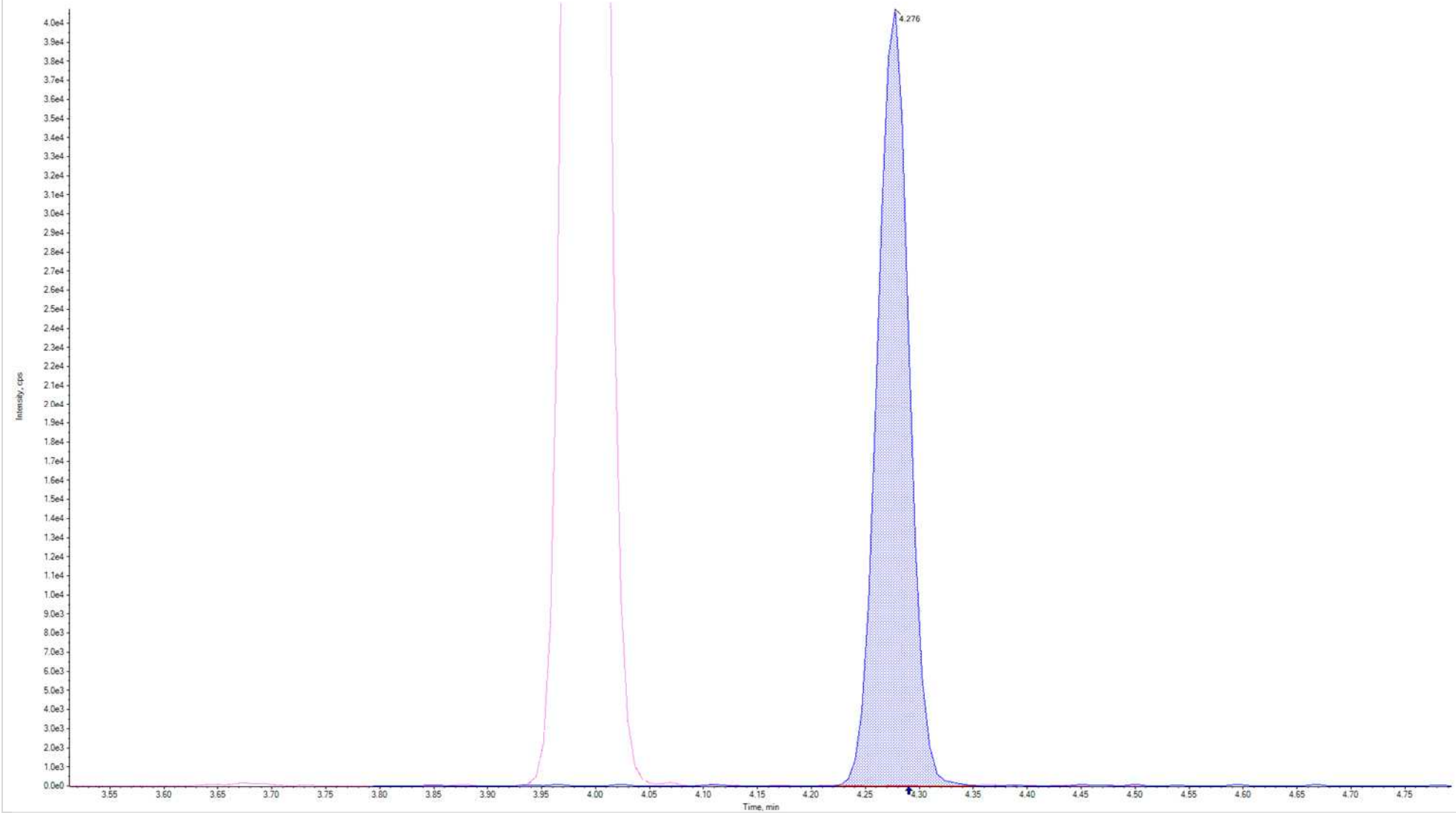
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

9Cl-PF3ONS
Sample: WG2038851-1,1633LOW S/N:3074.7 Points Across peak:25



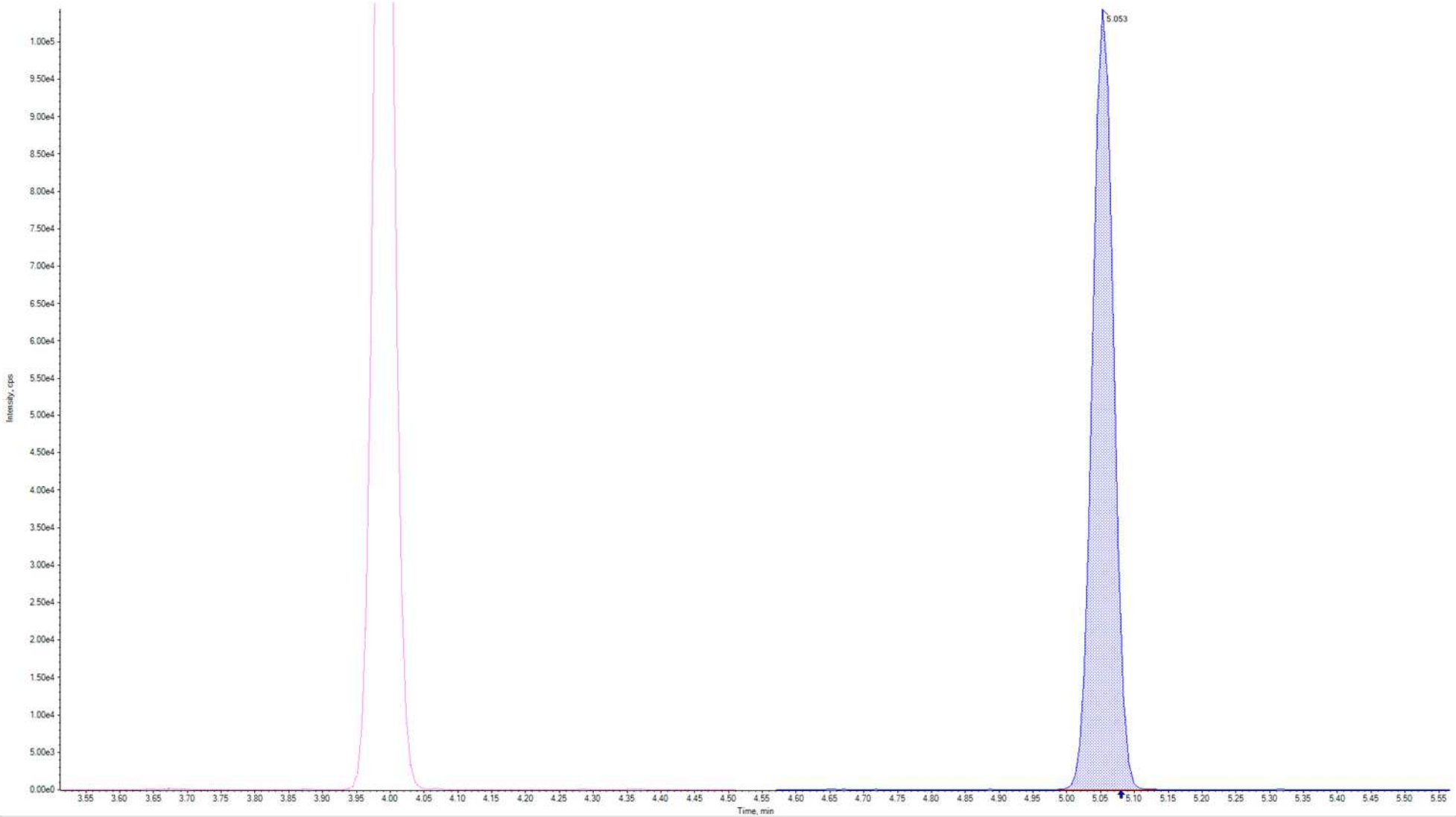
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

9Cl-PF3ONS_2
Sample: WG2038851-1,1633LOW S/N:919.0 Points Across peak:27



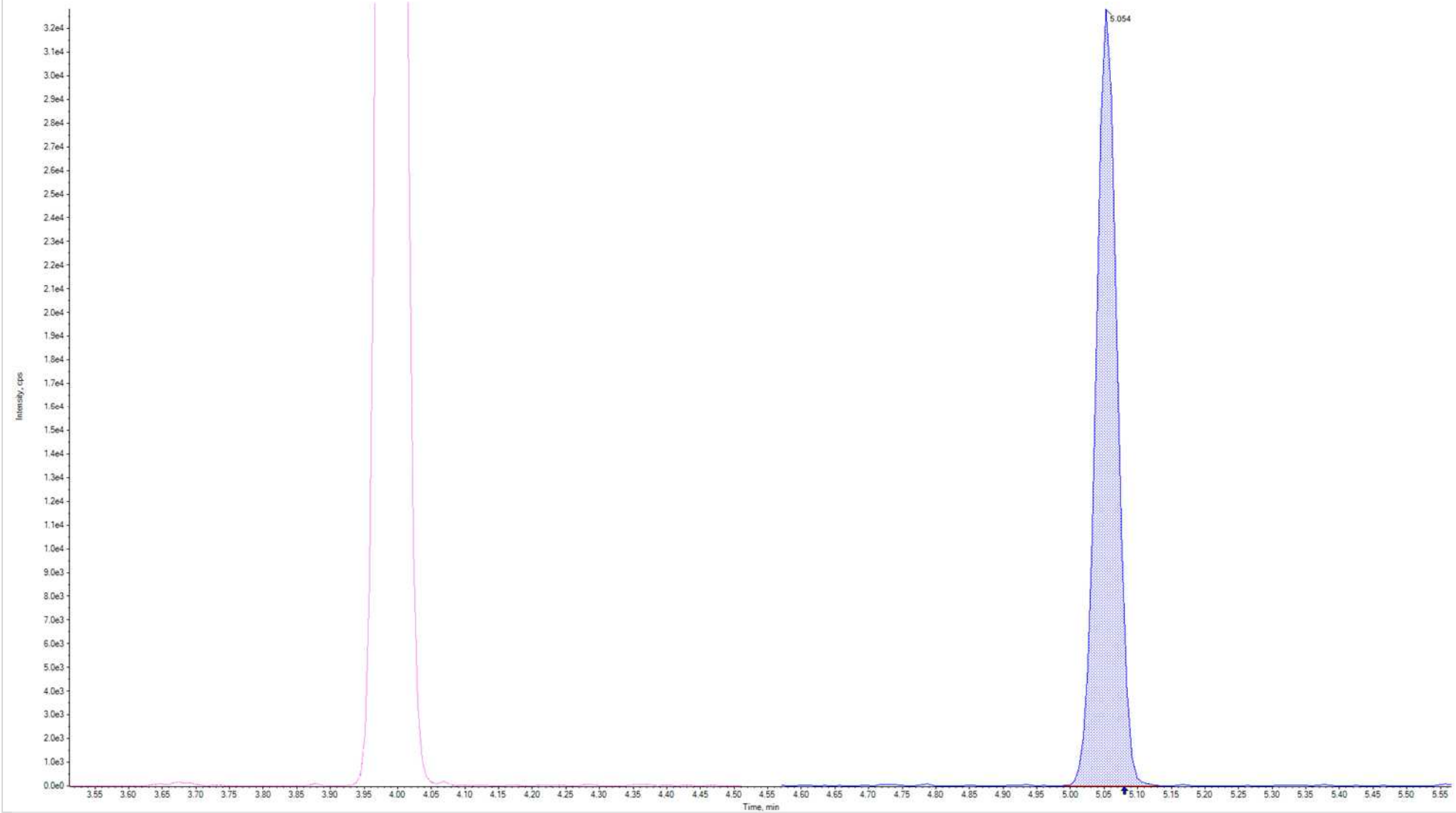
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

11Cl-PF3OUdS
Sample: WG2038851-1,1633LOW S/N:3717.3 Points Across peak:28



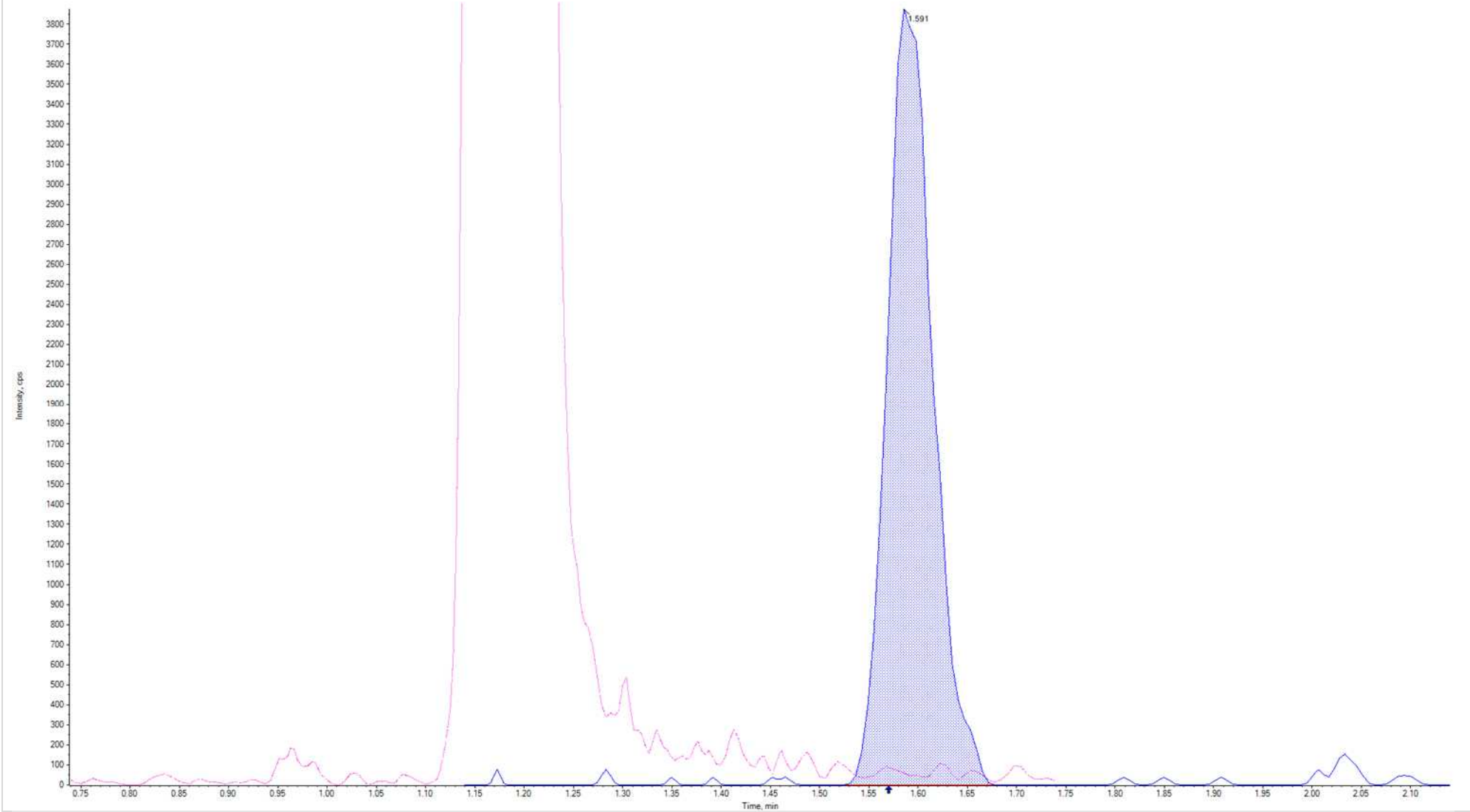
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

11Cl-PF3OUdS_2
Sample: WG2038851-1,1633LOW S/N:1562.6 Points Across peak:25



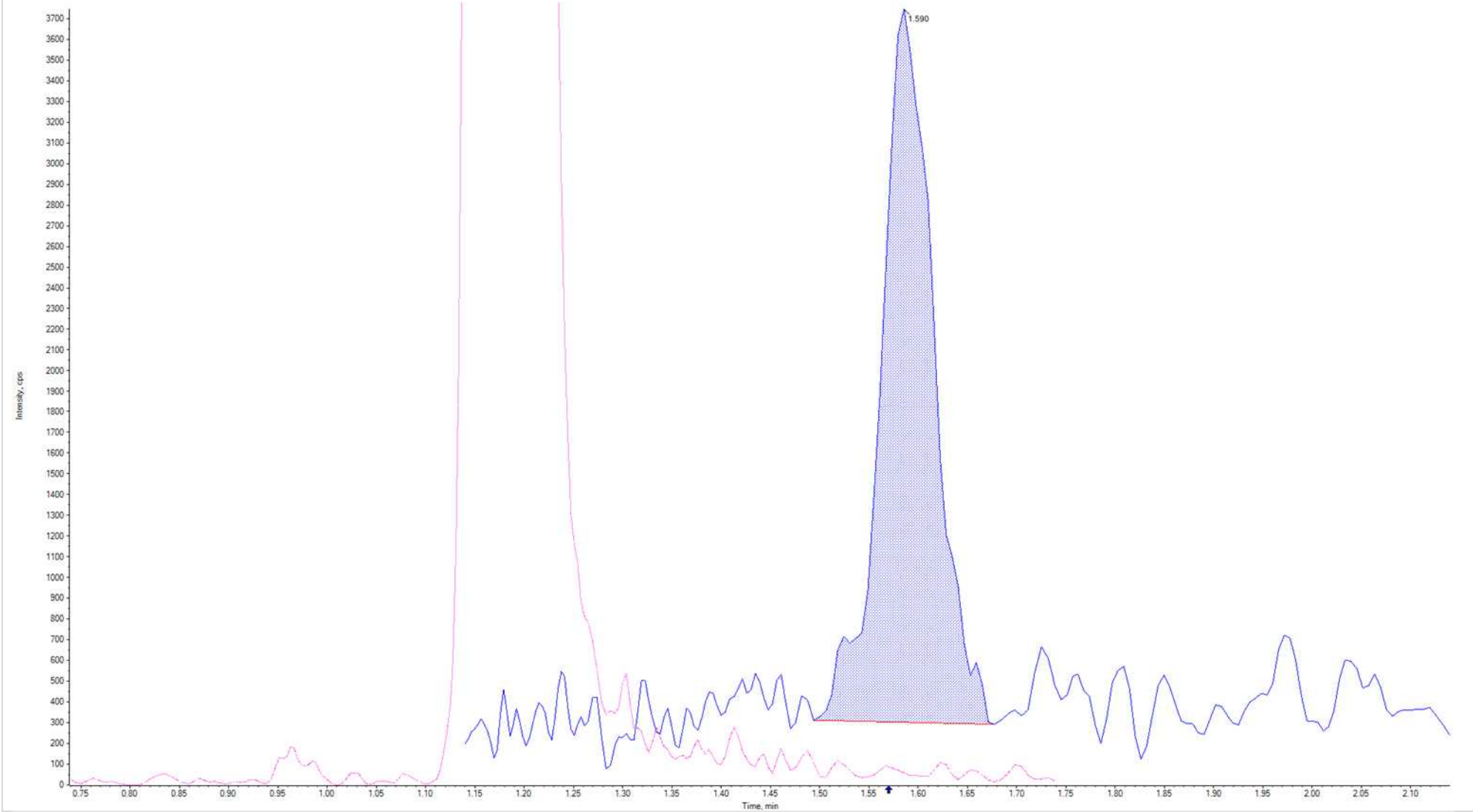
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

3:3FTCA
Sample: WG2038851-1,1633LOW S/N:97.1 Points Across peak:35



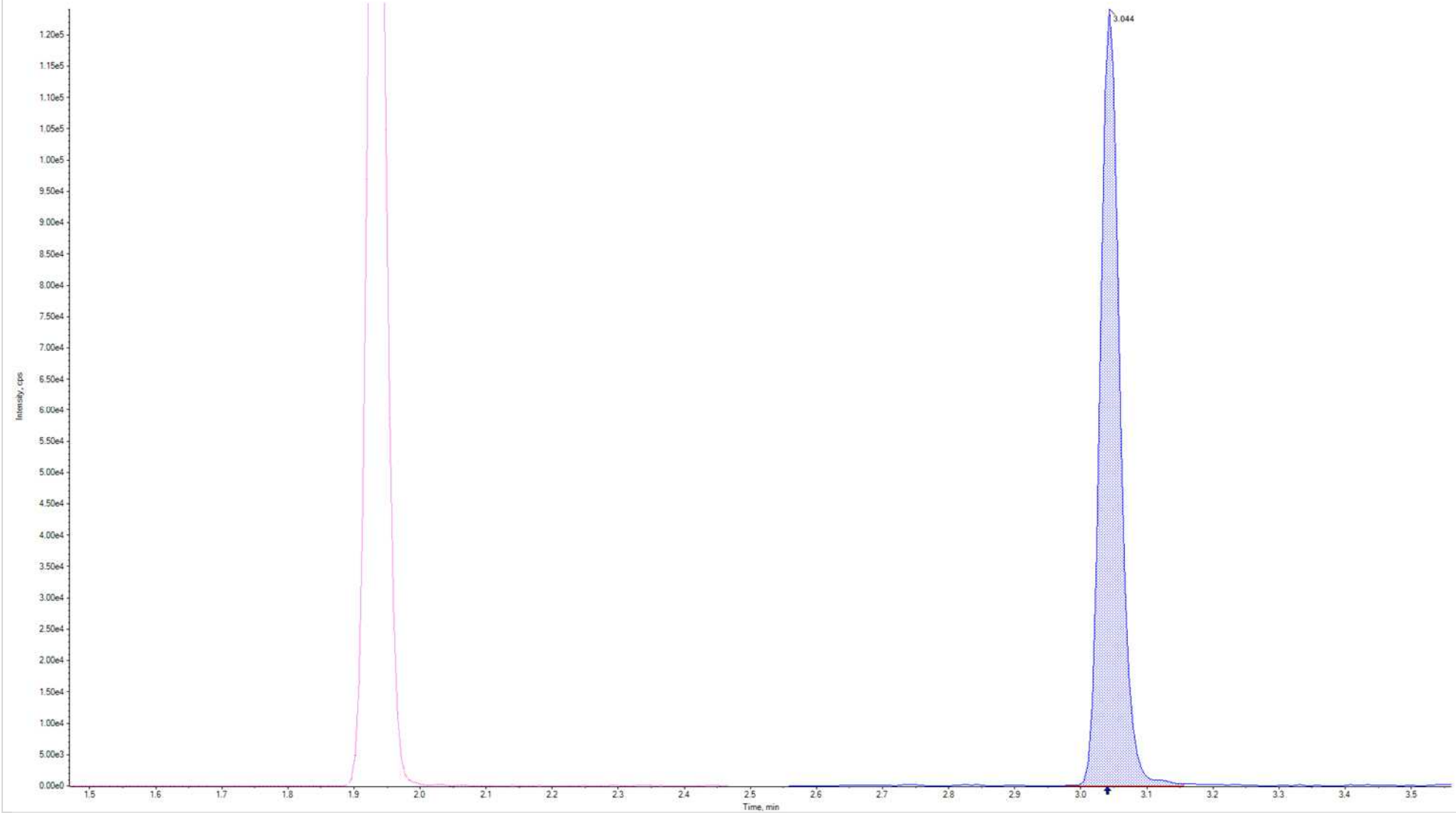
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

3:3FTCA_2
Sample: WG2038851-1,1633LOW S/N:86.3 Points Across peak:31



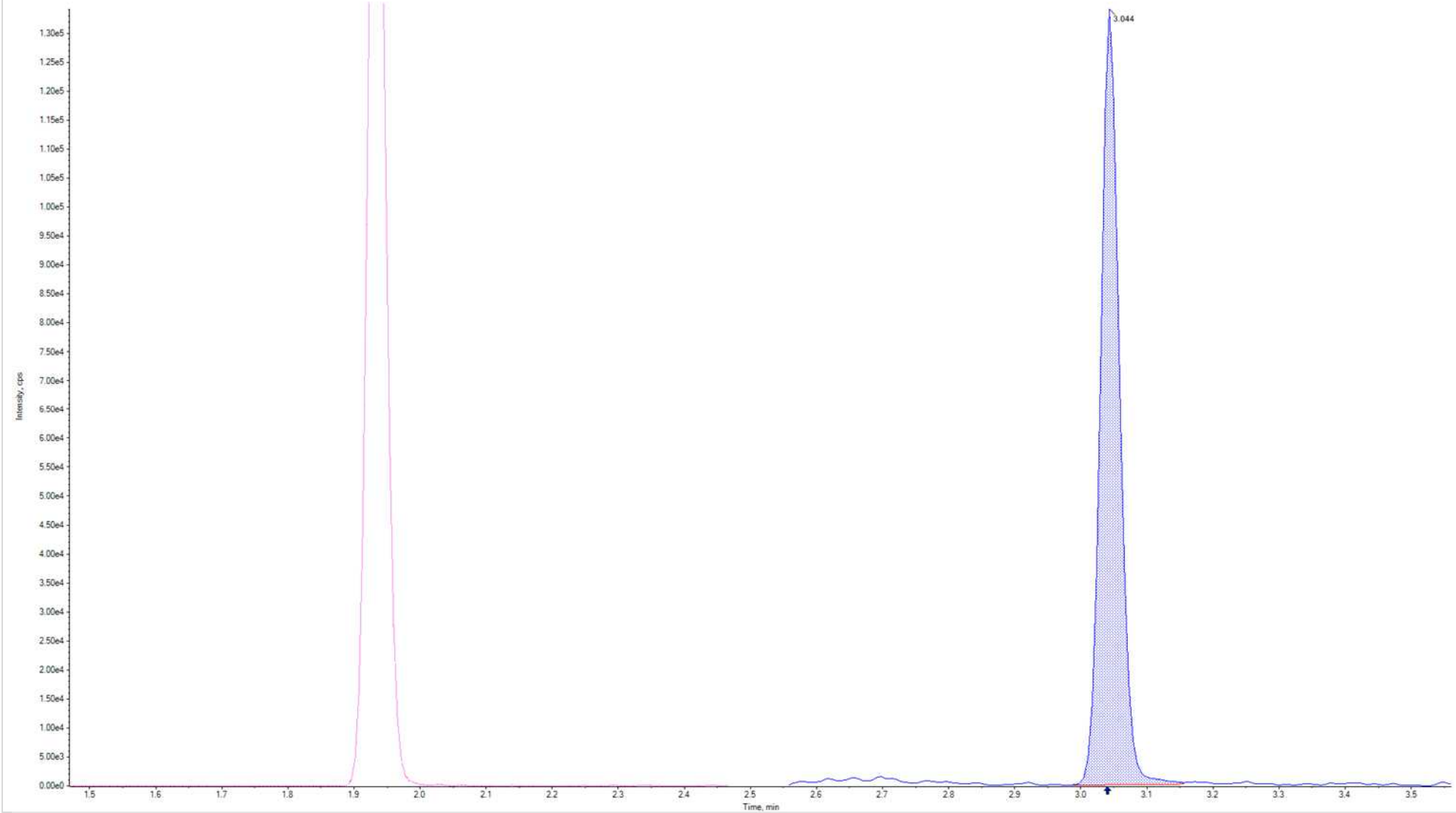
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

5:3FTCA
Sample: WG2038851-1,1633LOW S/N:2800.0 Points Across peak:32



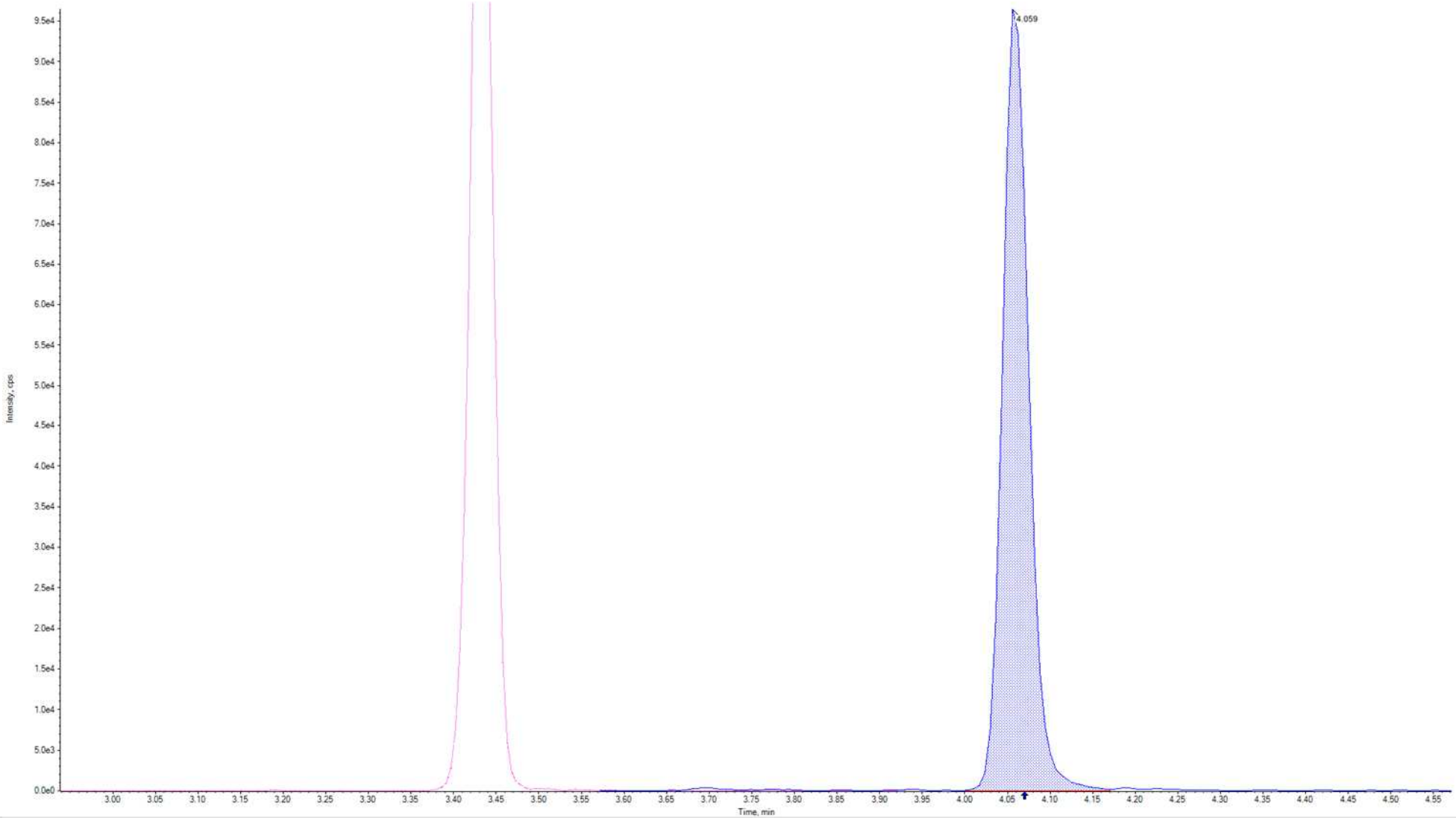
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

5:3FTCA_2
Sample: WG2038851-1,1633LOW S/N:2999.2 Points Across peak:30



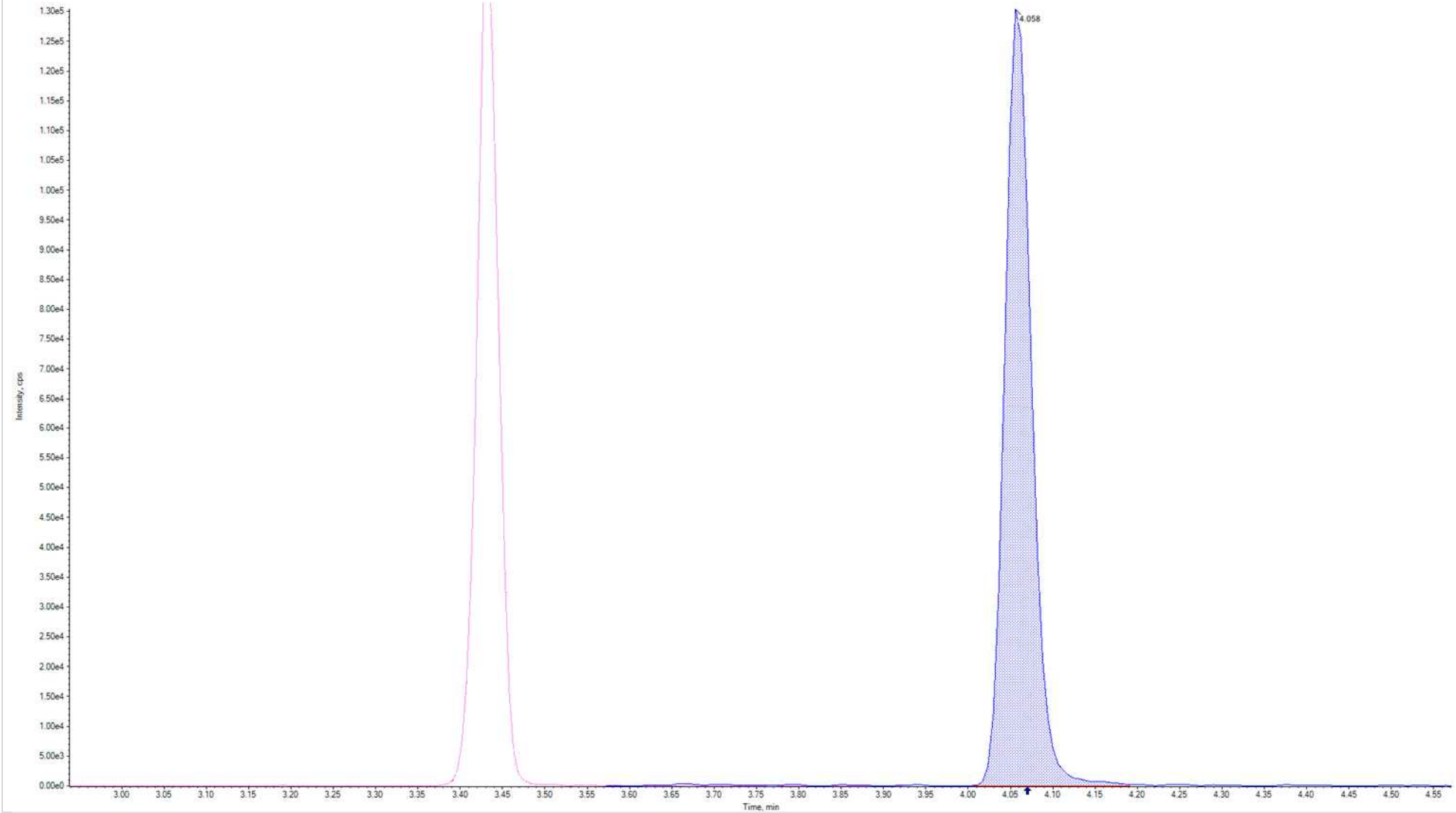
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

7:3FTCA
Sample: WG2038851-1,1633LOW S/N:2659.4 Points Across peak:29



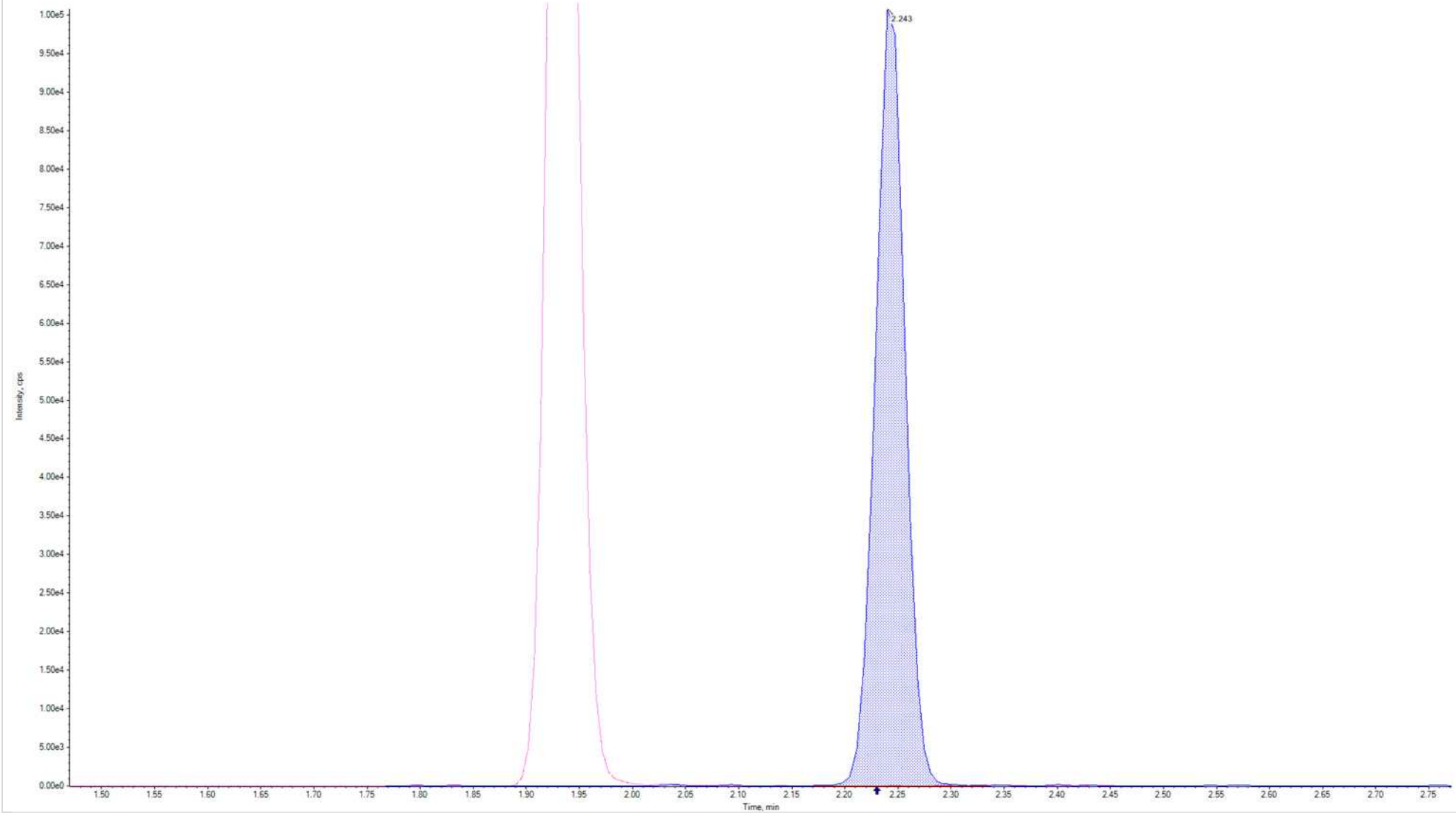
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

7:3FTCA_2
Sample: WG2038851-1,1633LOW S/N:1870.2 Points Across peak:31



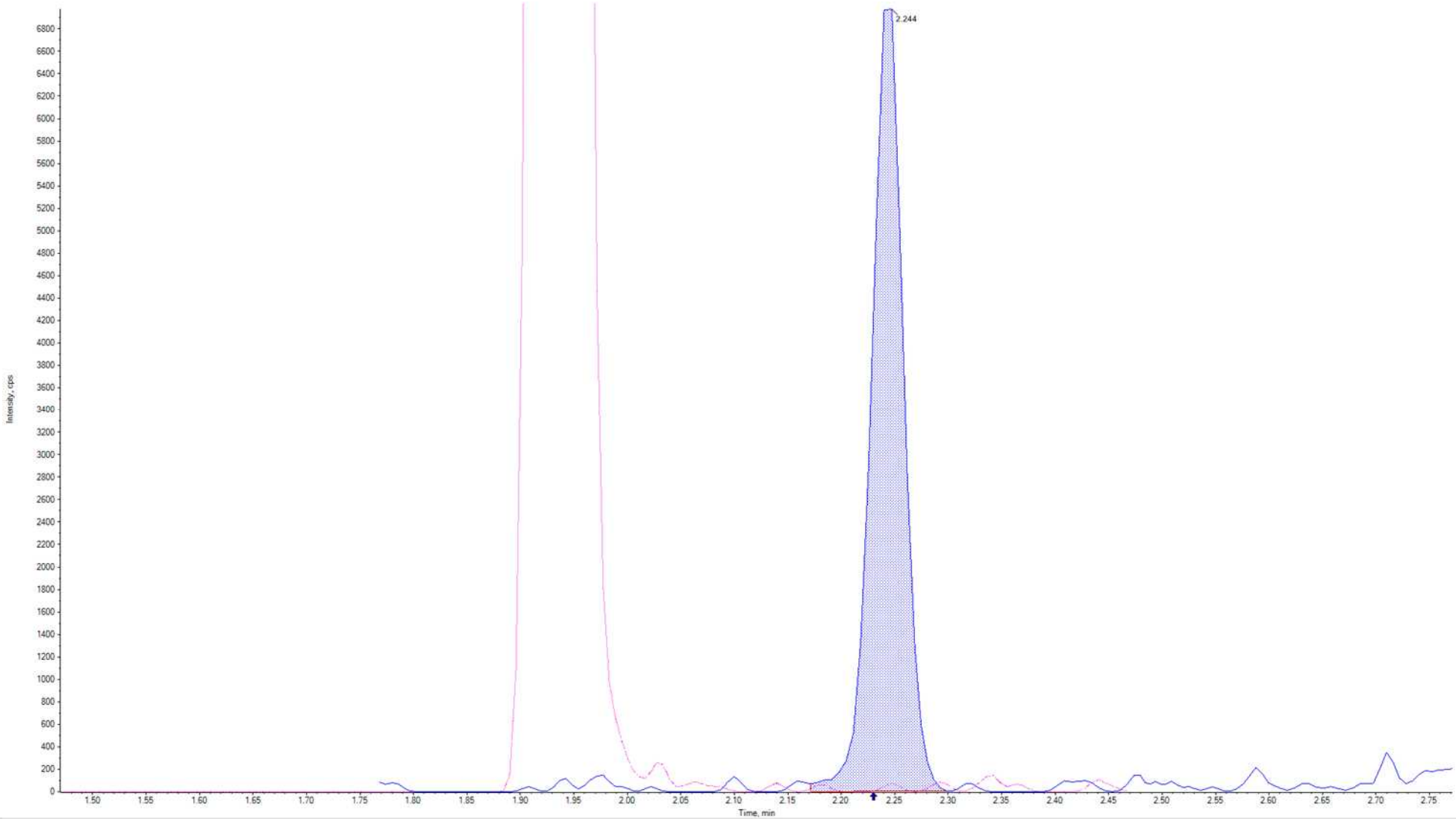
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFEESA
Sample: WG2038851-1,1633LOW S/N:2272.4 Points Across peak:29



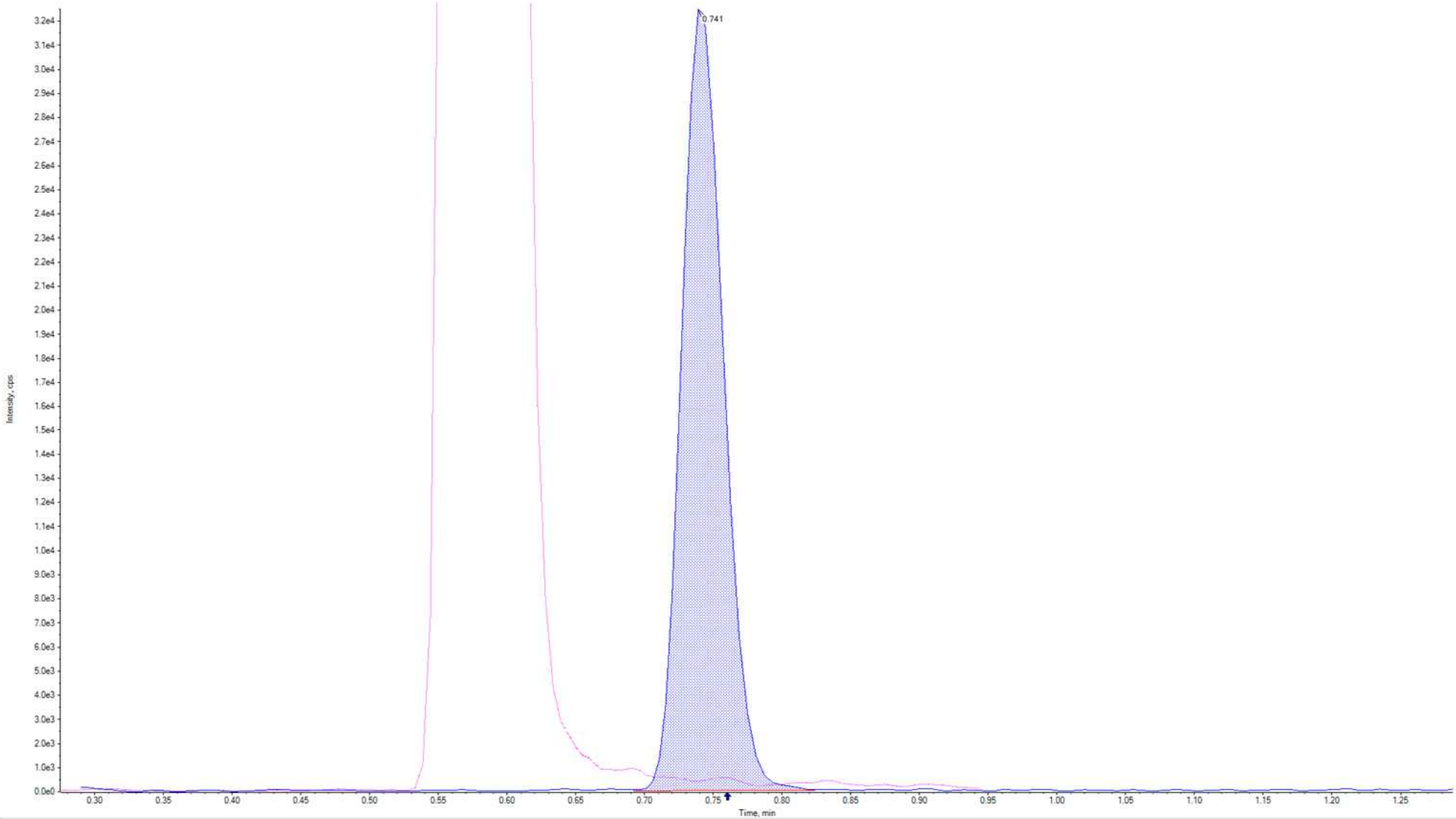
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFEESA_2
Sample: WG2038851-1,1633LOW S/N:157.2 Points Across peak:21



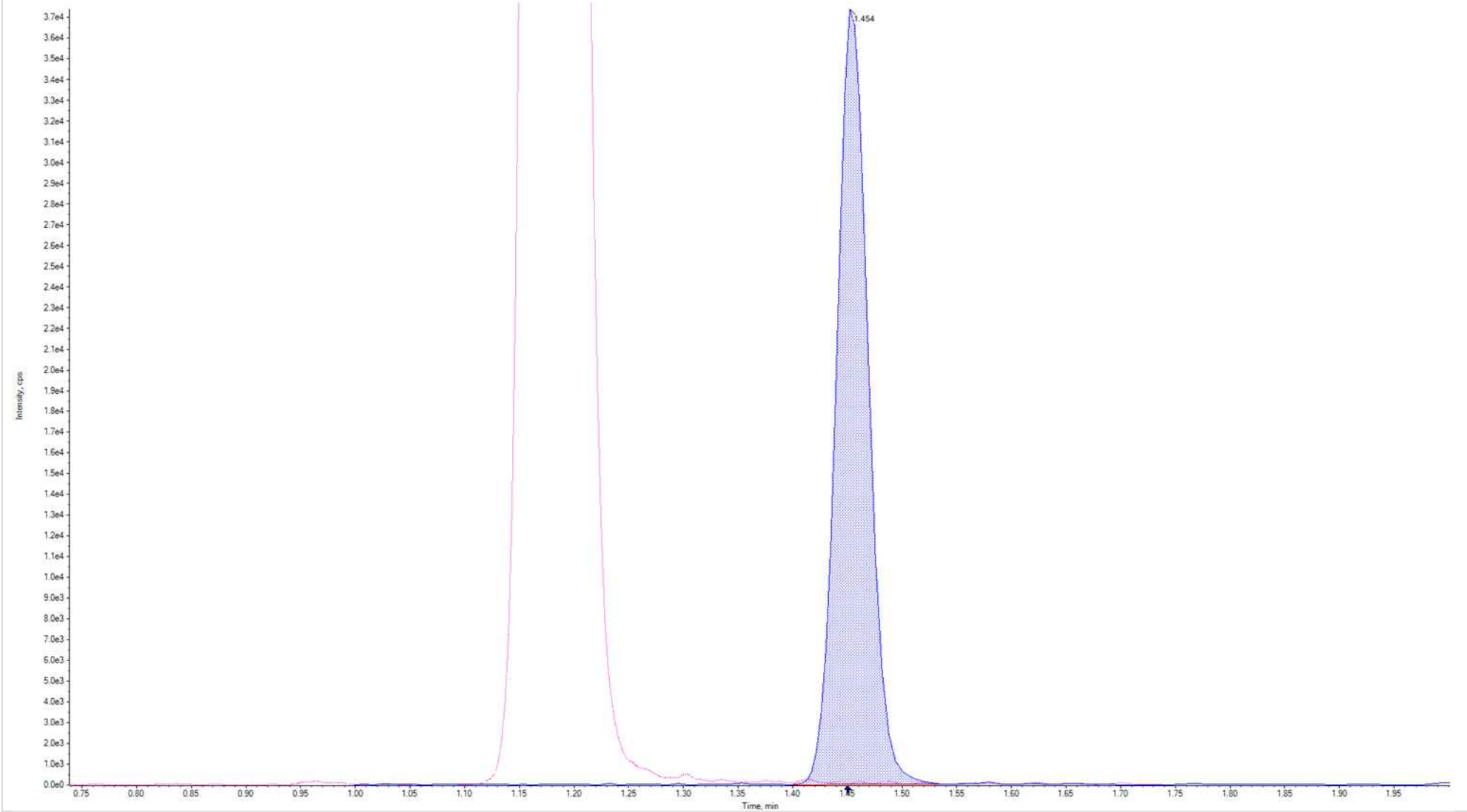
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFMPA
Sample: WG2038851-1,1633LOW S/N:3253.7 Points Across peak:25



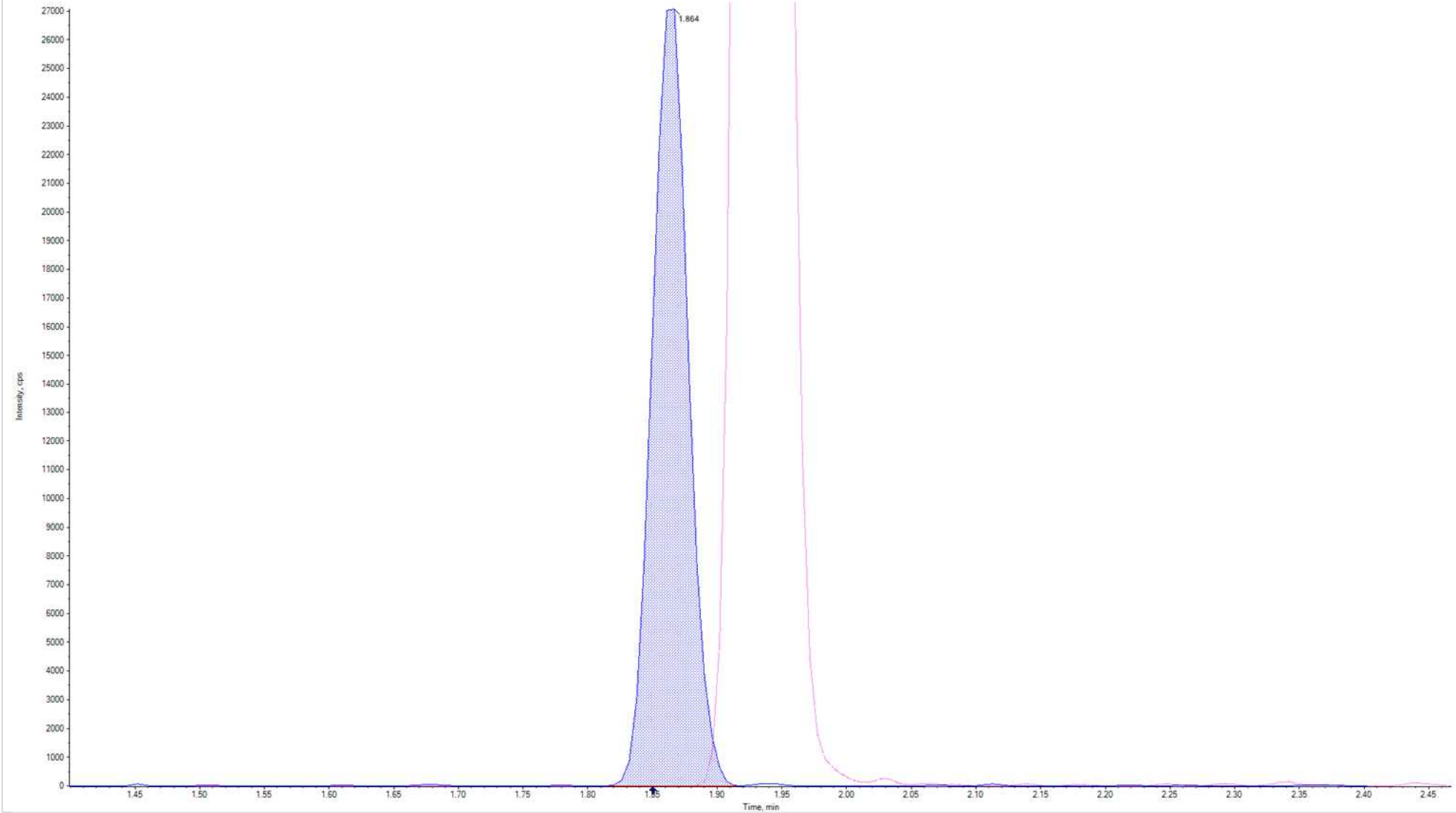
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

PFMBA
Sample: WG2038851-1,1633LOW S/N:2155.0 Points Across peak:30



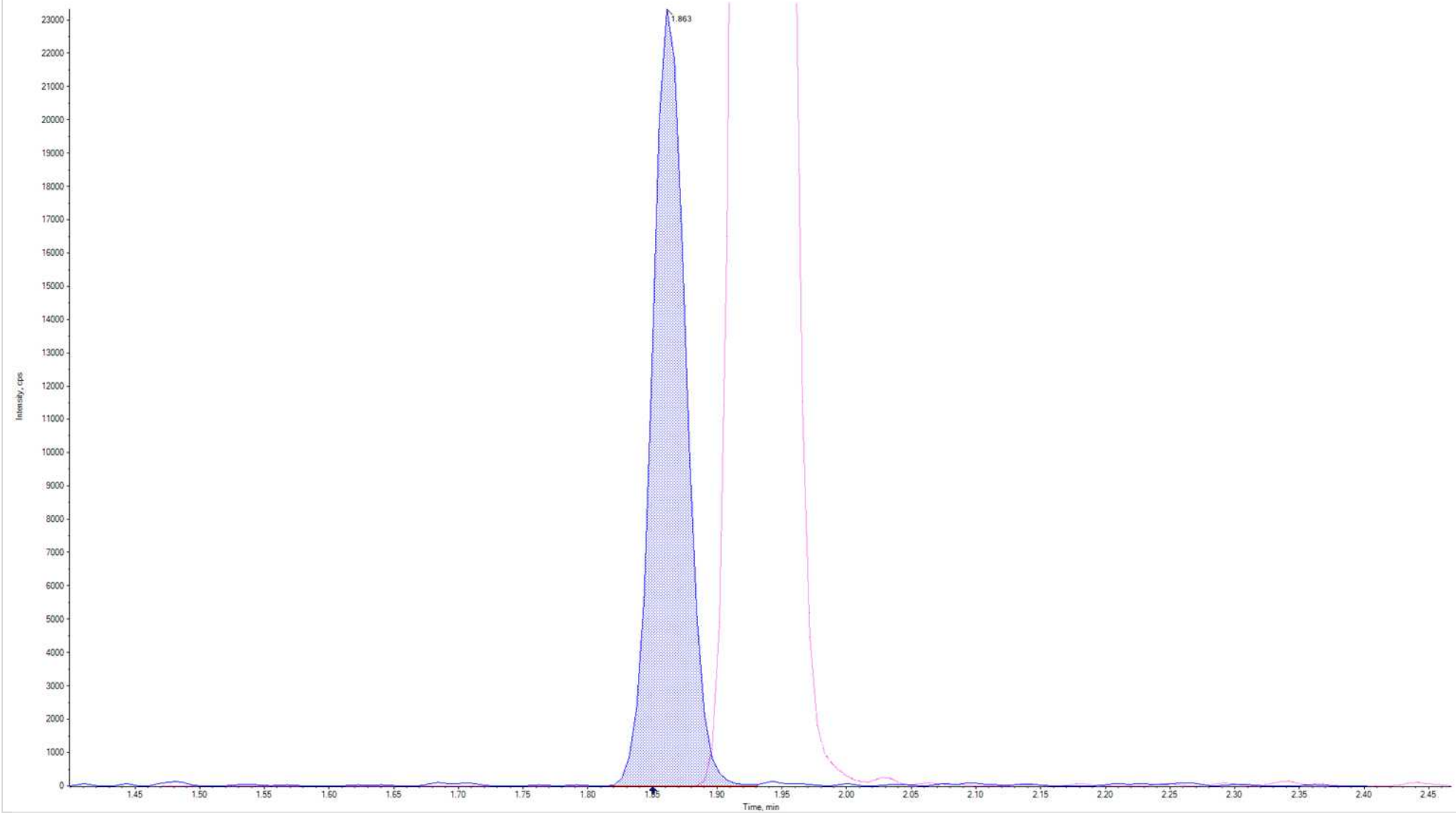
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

NFDHA
Sample: WG2038851-1,1633LOW S/N:746.4 Points Across peak:21



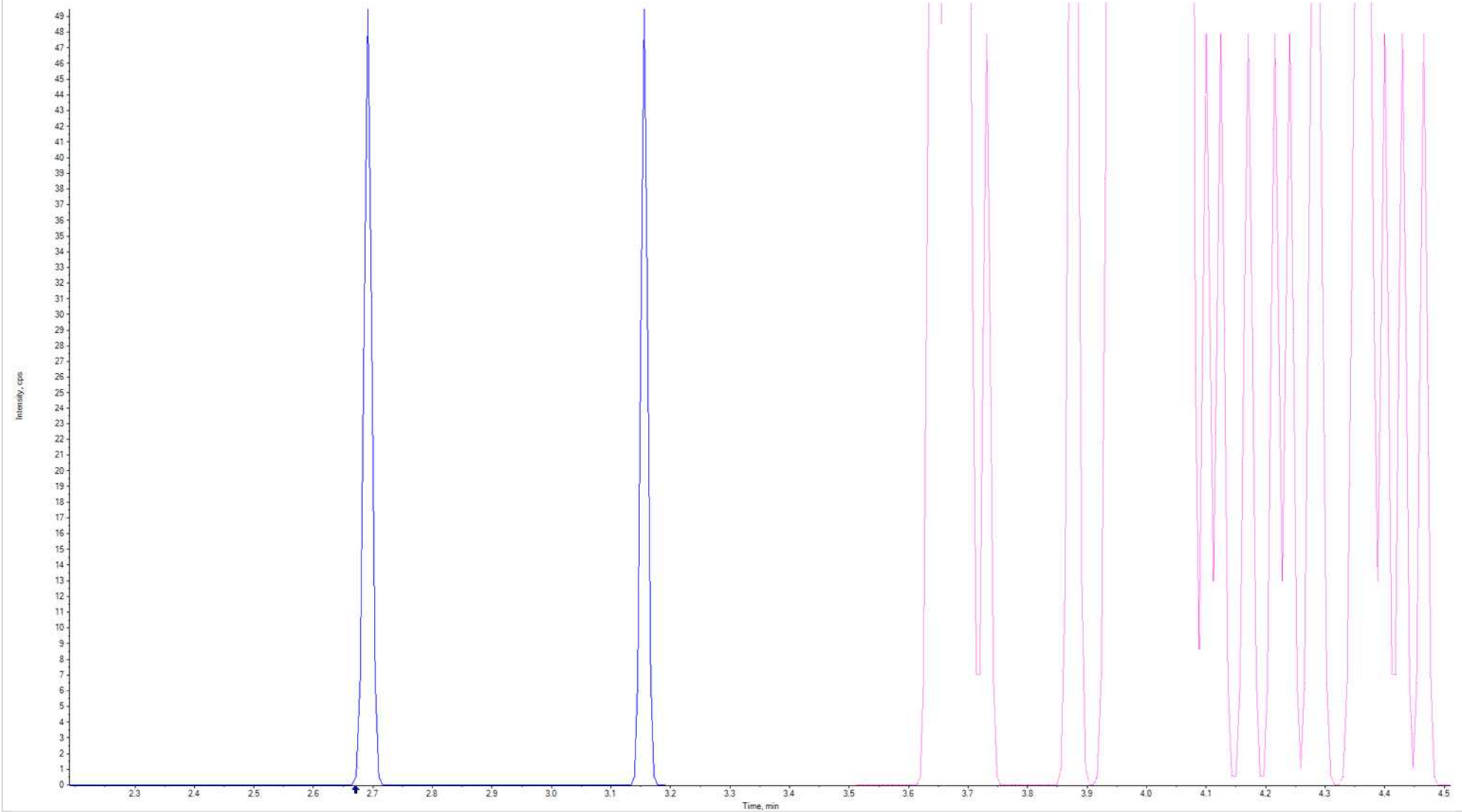
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

NFDHA_2
Sample: WG2038851-1,1633LOW S/N:643.1 Points Across peak:22



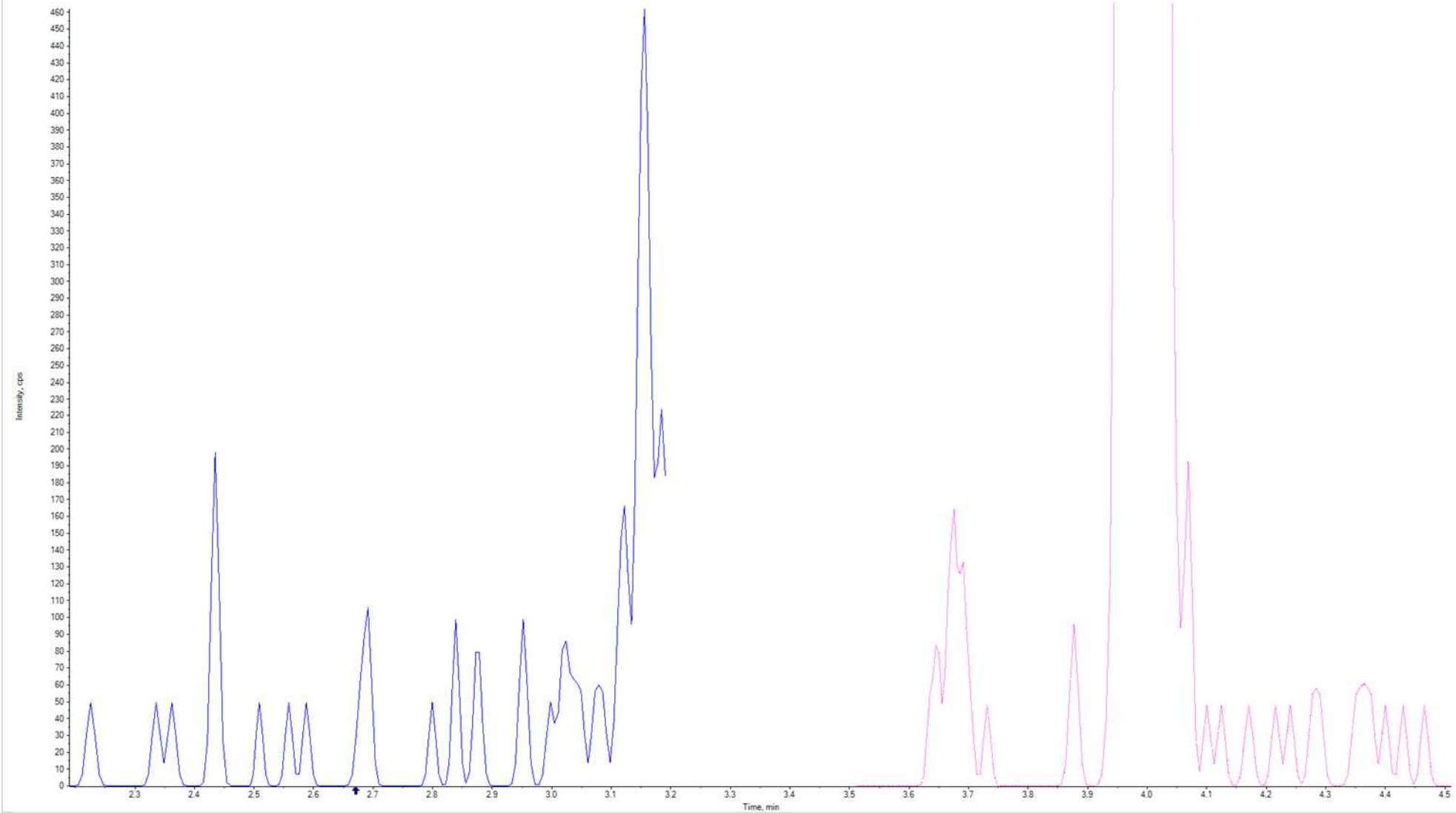
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

TDCA
Sample: WG2038851-1,1633LOW S/N:N/A Points Across peak:N/A



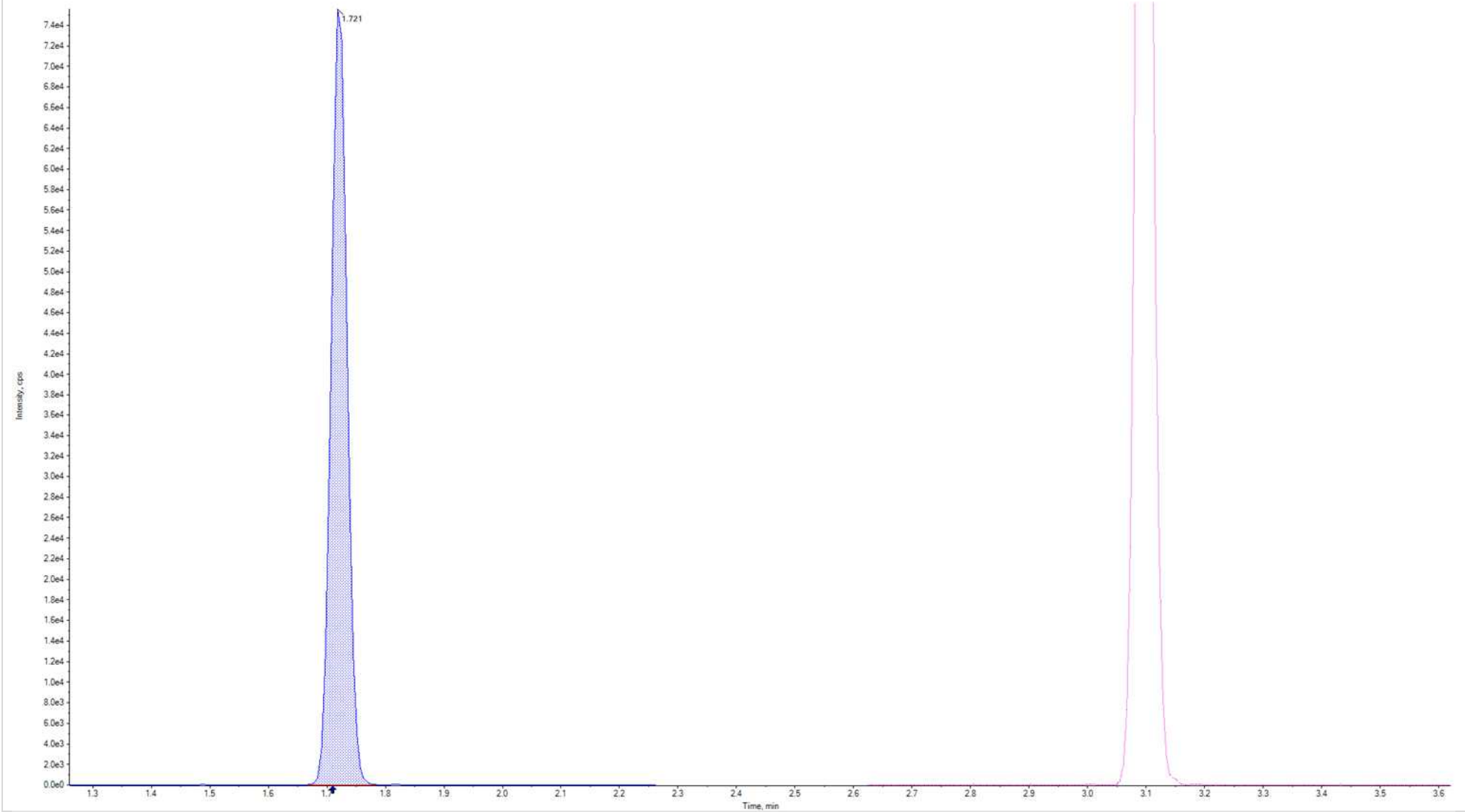
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

TDCA_2
Sample: WG2038851-1,1633LOW S/N:N/A Points Across peak:N/A



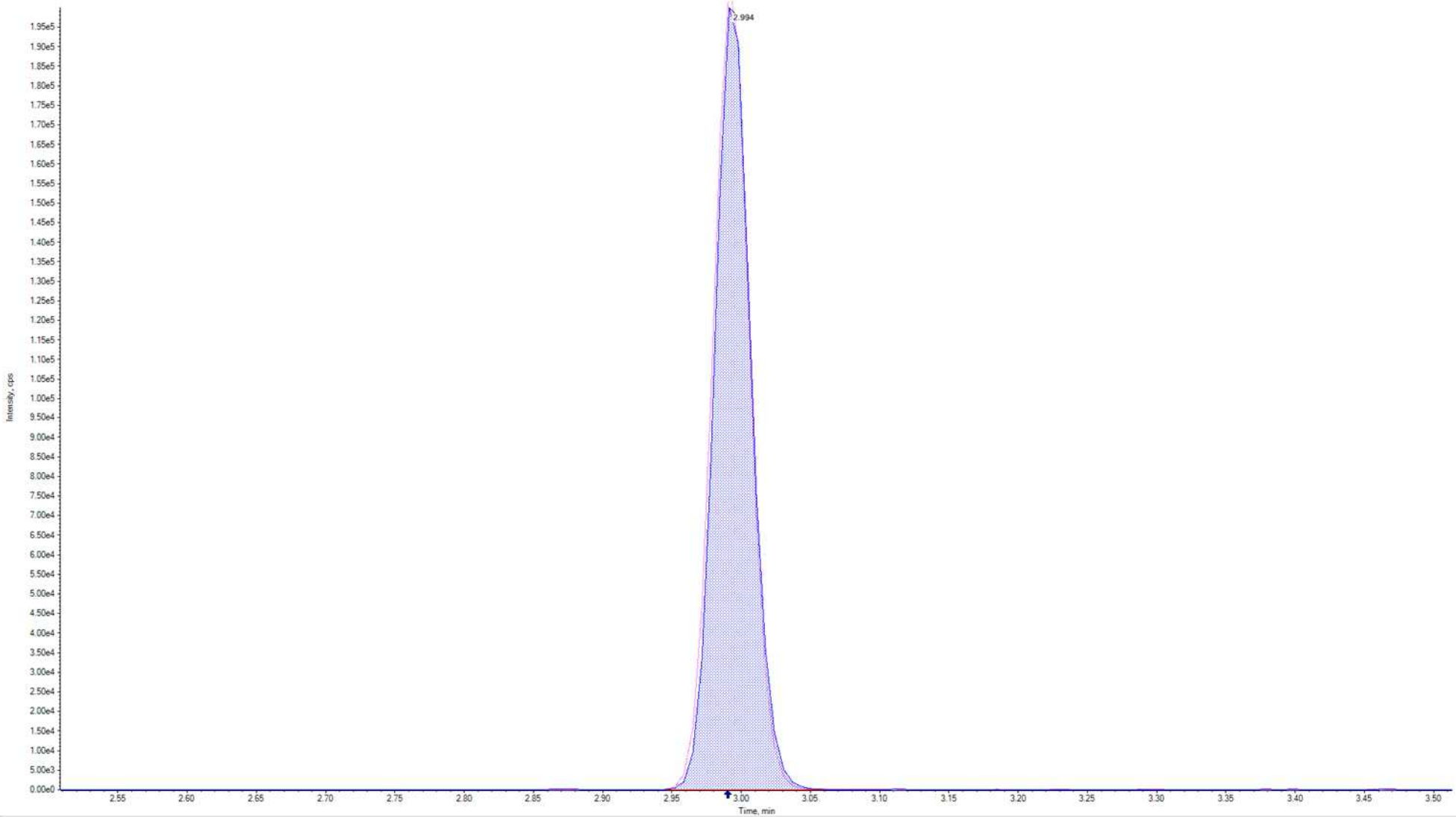
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

13C2D4-4:2FTS
Sample: WG2038851-1,1633LOW S/N:2841.7 Points Across peak:29

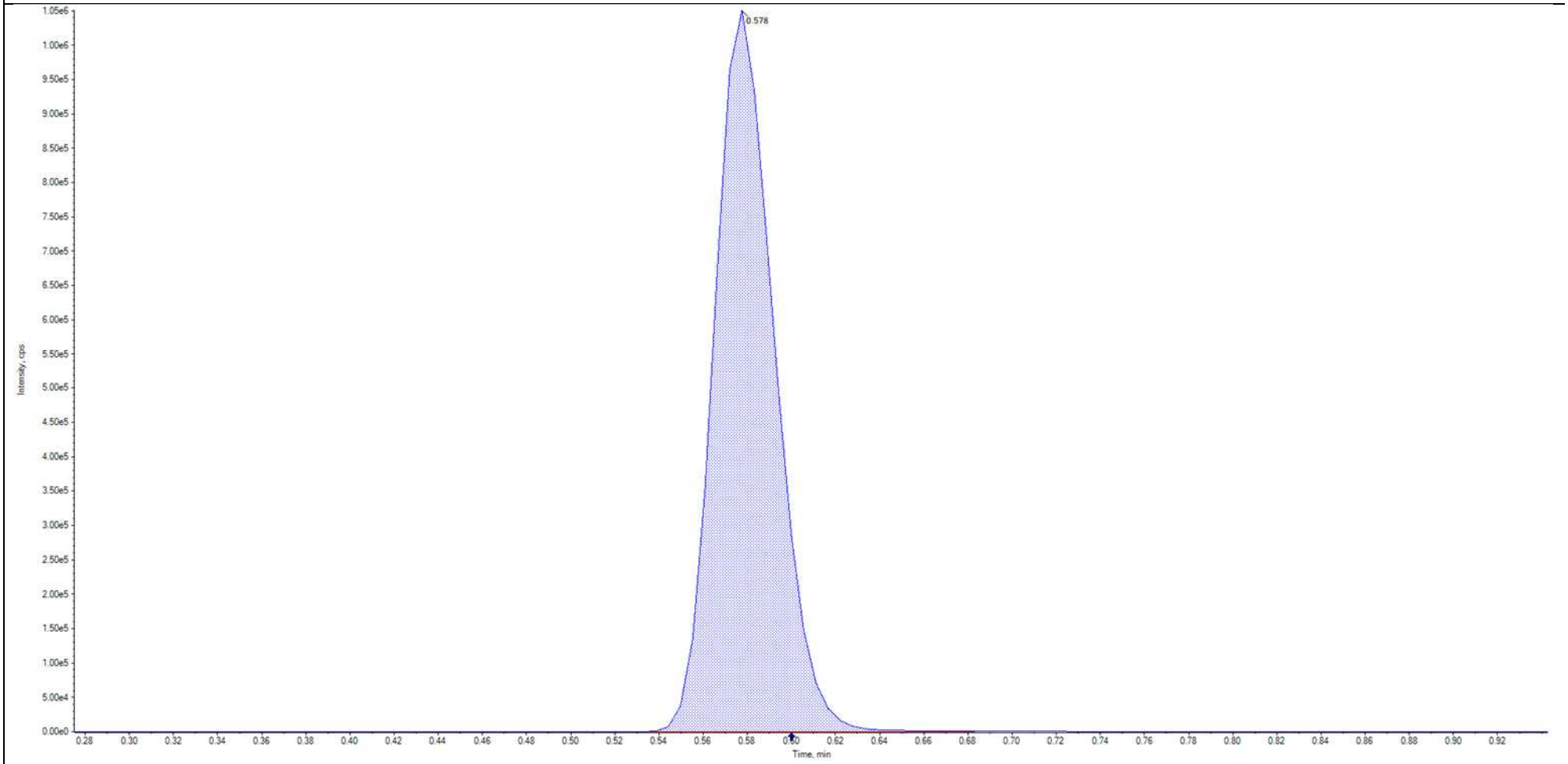


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

13C2-PFOA
Sample: WG2038851-1,1633LOW S/N:3908.7 Points Across peak:24

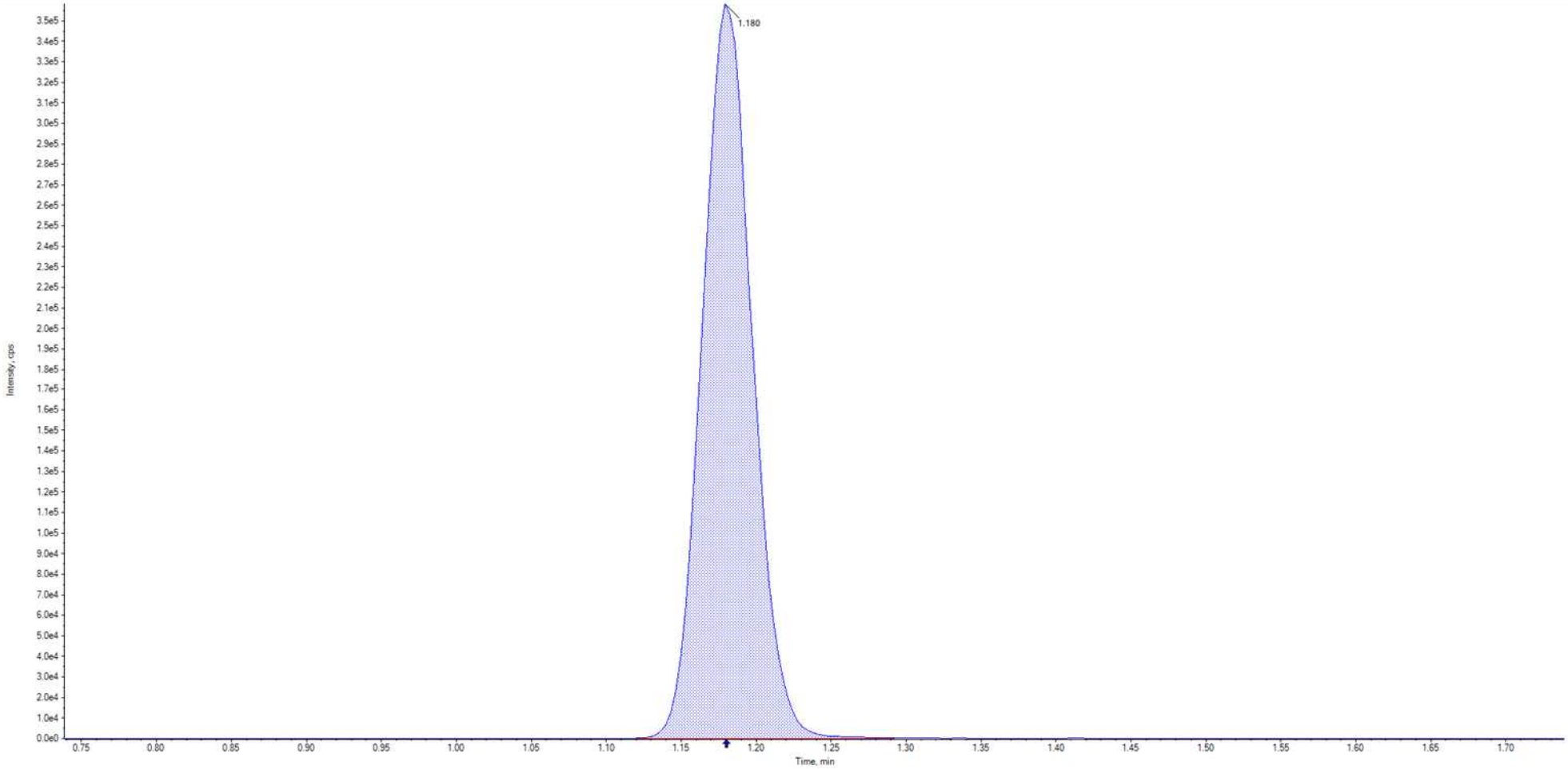


13C4-PFBA
Sample: WG2038851-1,1633LOW

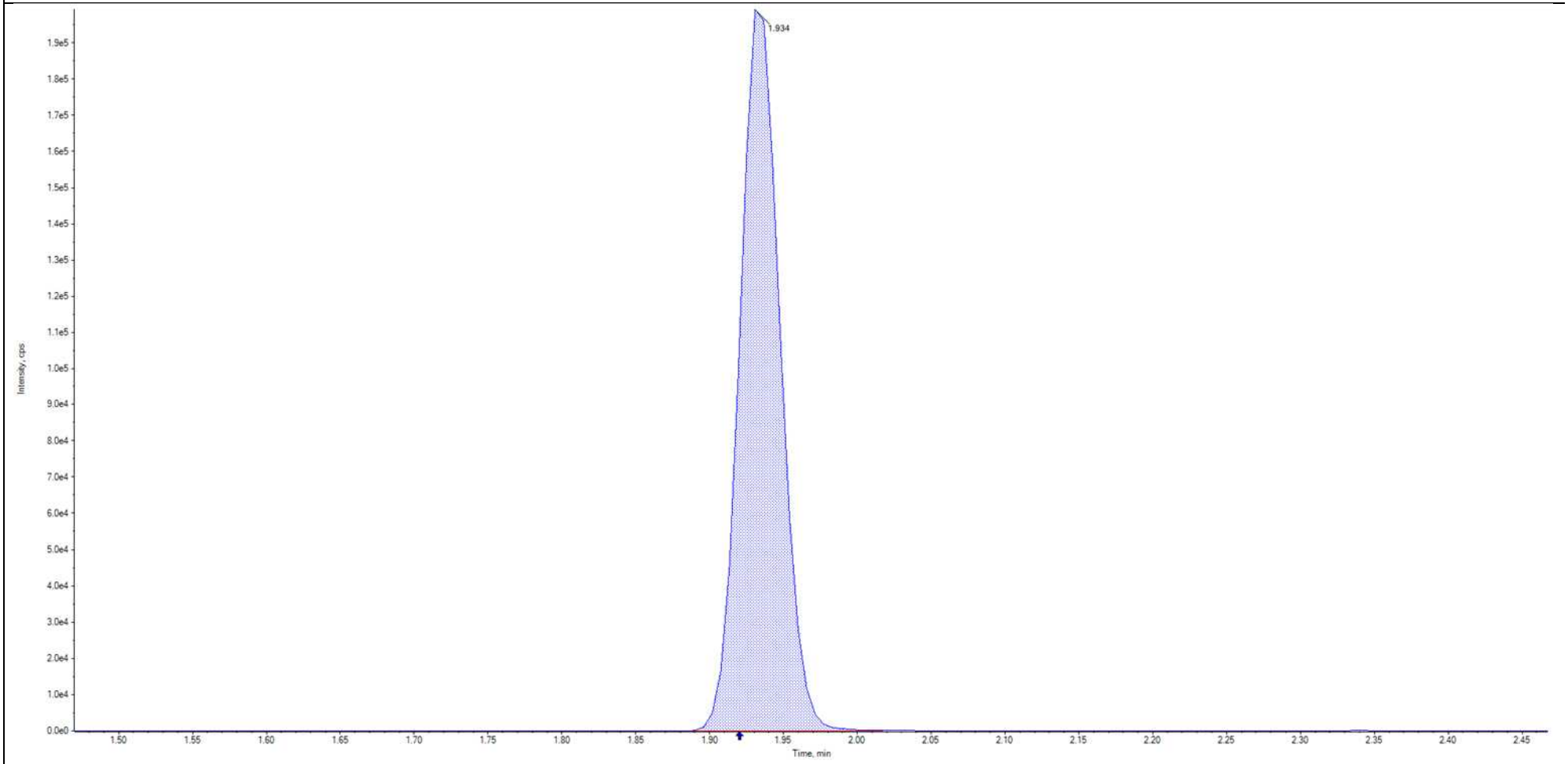


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

13C5-PFPeA
Sample: WG2038851-1,1633LOW

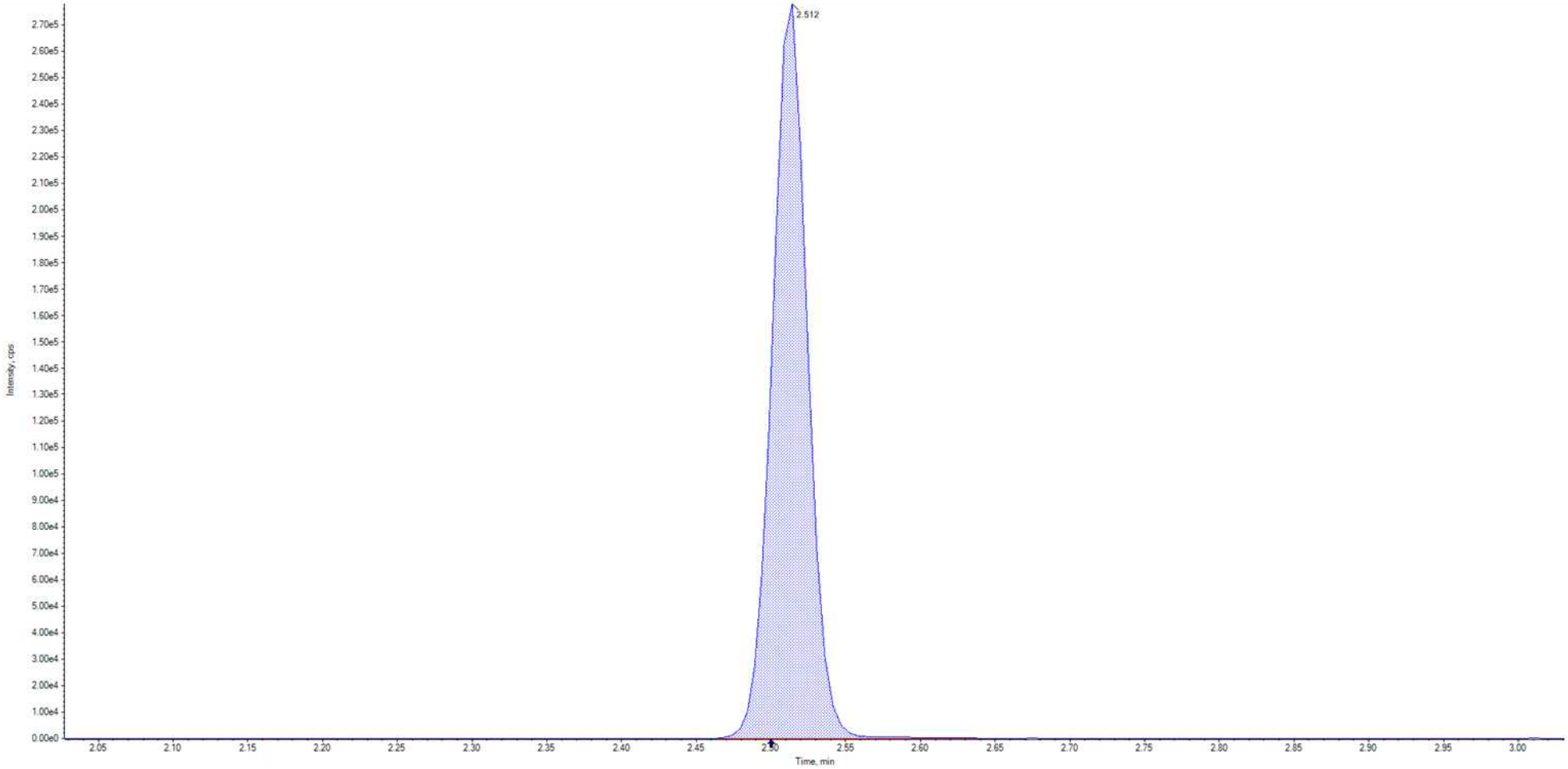


13C5-PFHxA
Sample: WG2038851-1,1633LOW

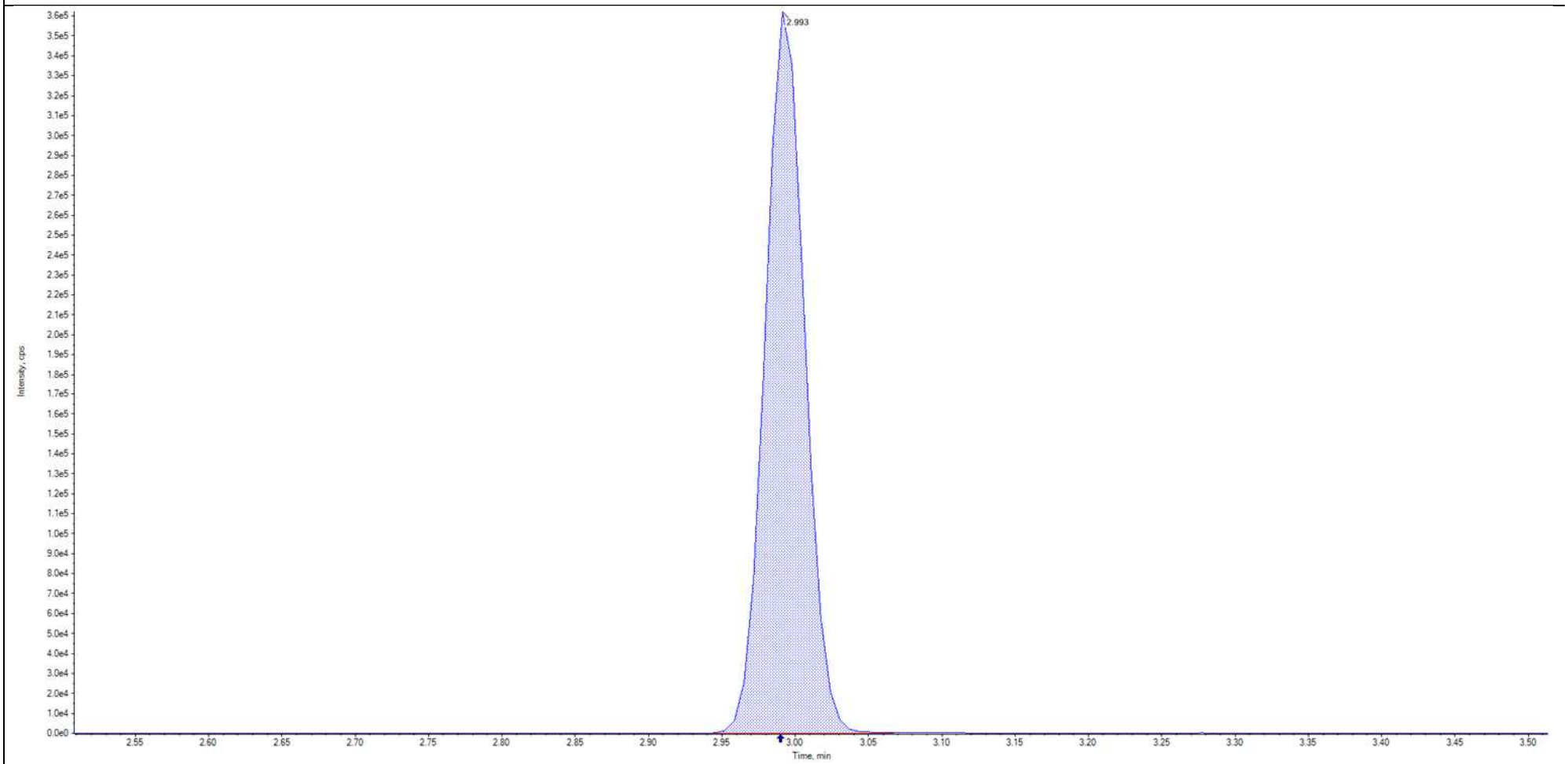


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

13C4-PFHpA
Sample: WG2038851-1,1633LOW

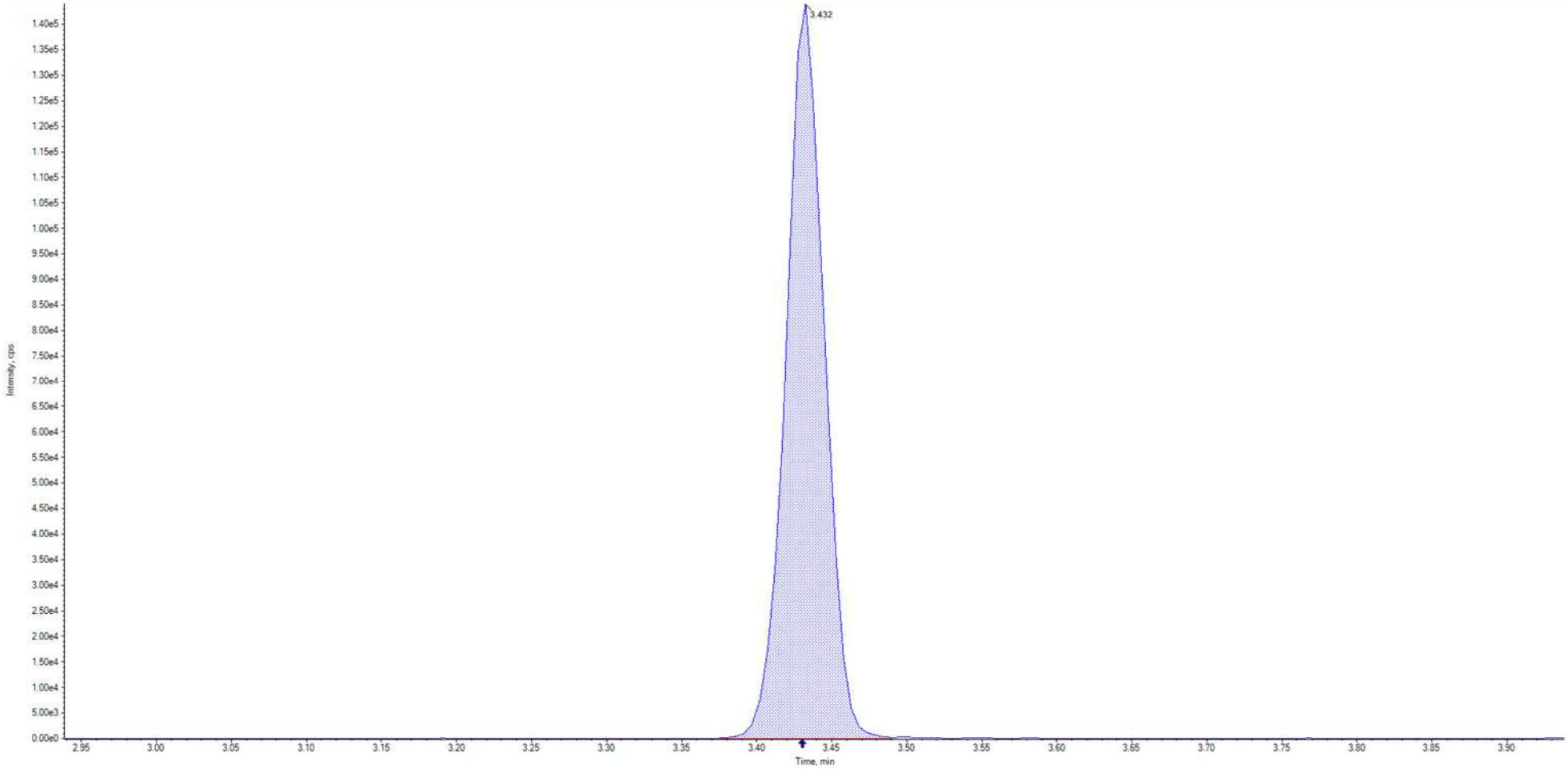


13C8-PFOA
Sample: WG2038851-1,1633LOW

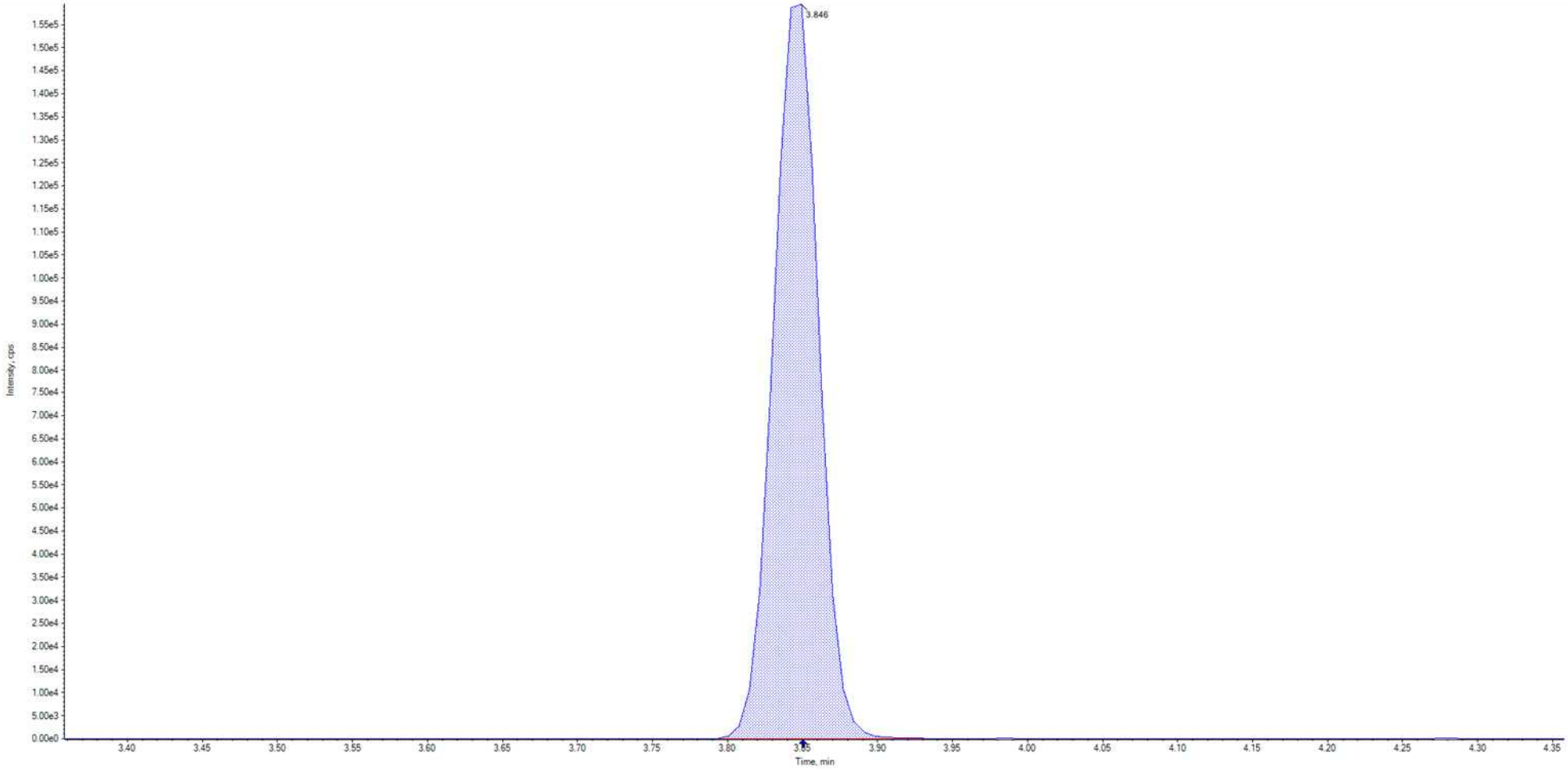


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

13C9-PFNA
Sample: WG2038851-1,1633LOW

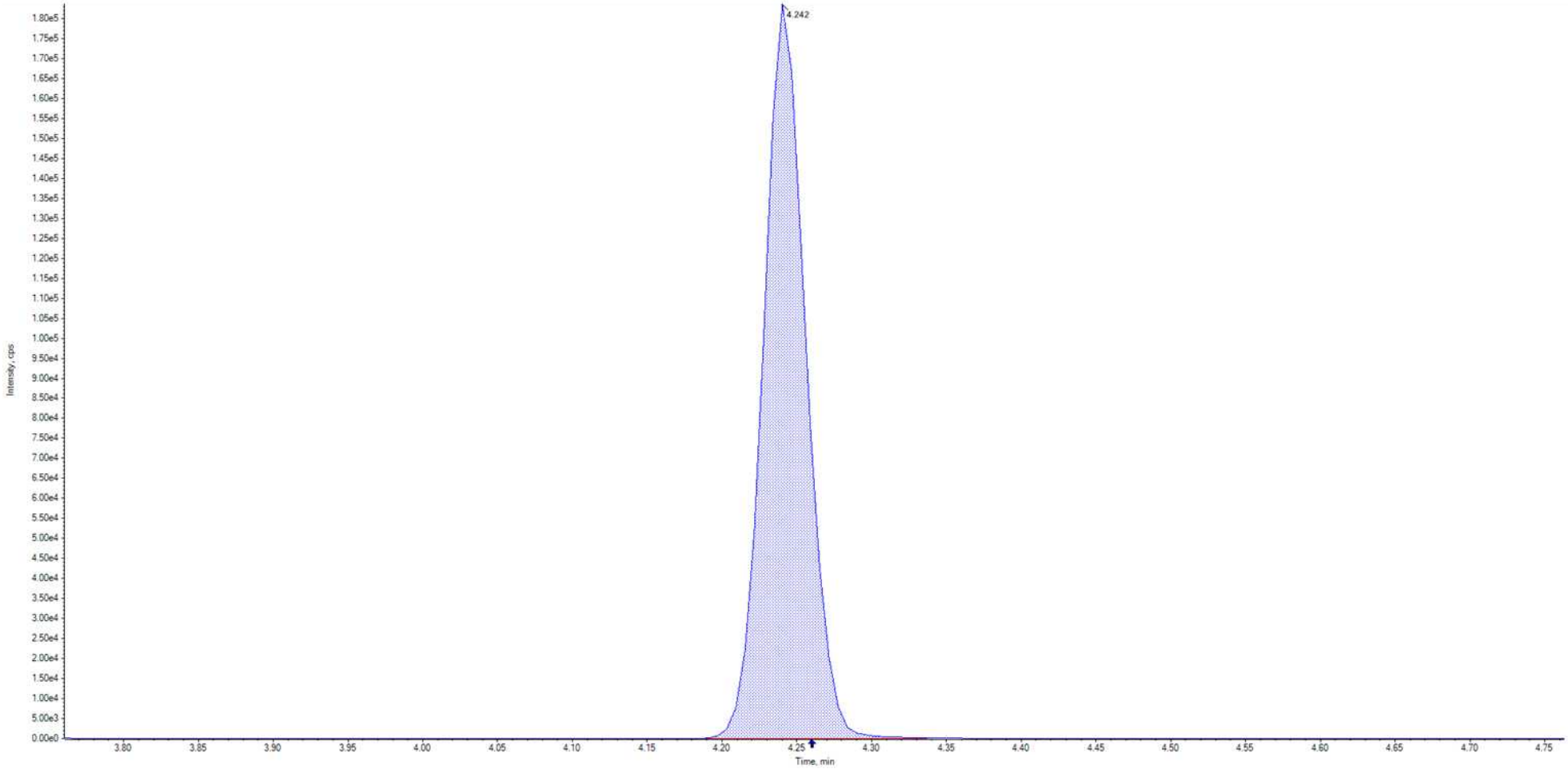


13C6-PFDA
Sample: WG2038851-1,1633LOW



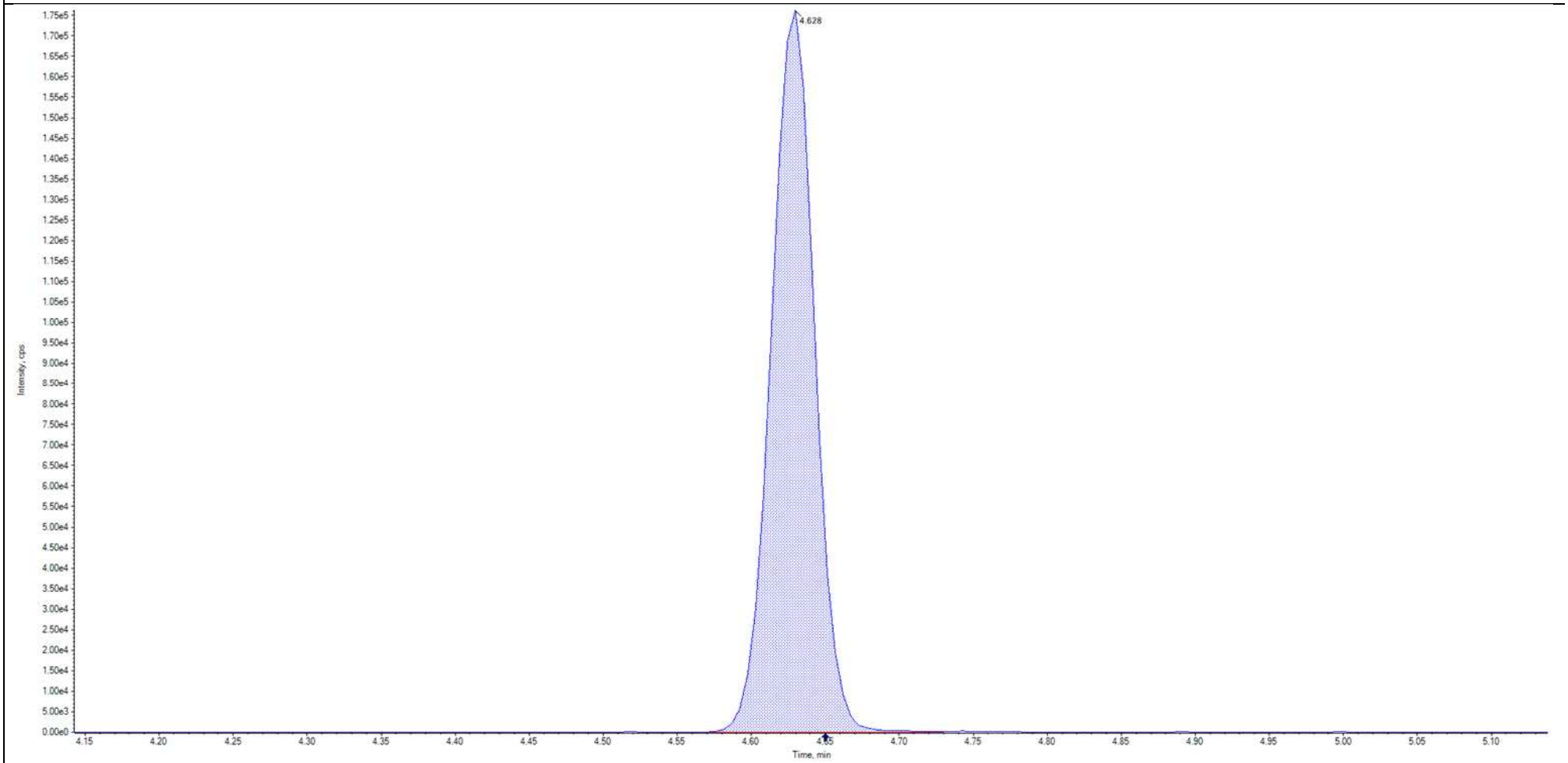
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

13C7-PFUnA
Sample: WG2038851-1,1633LOW

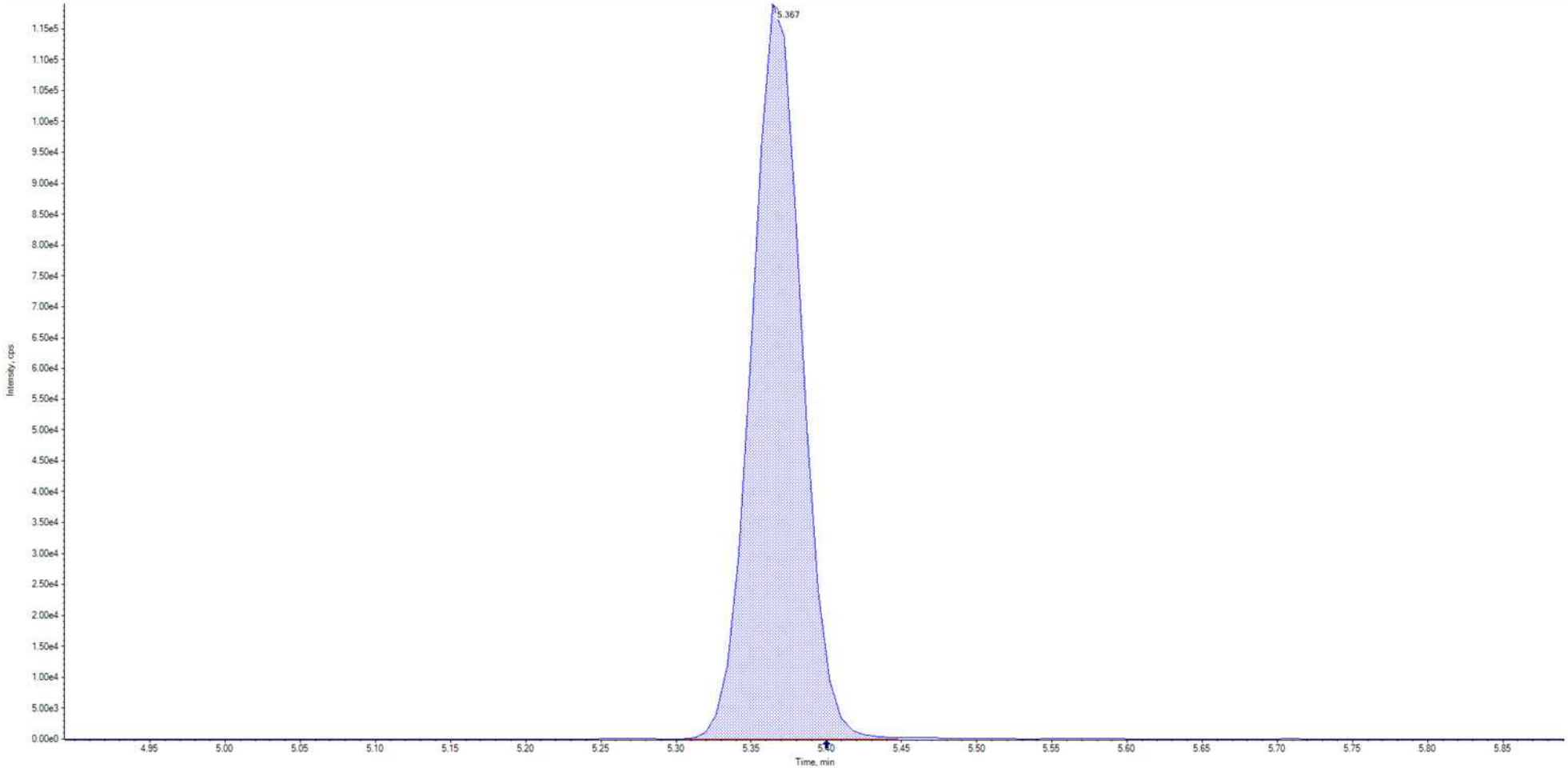


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

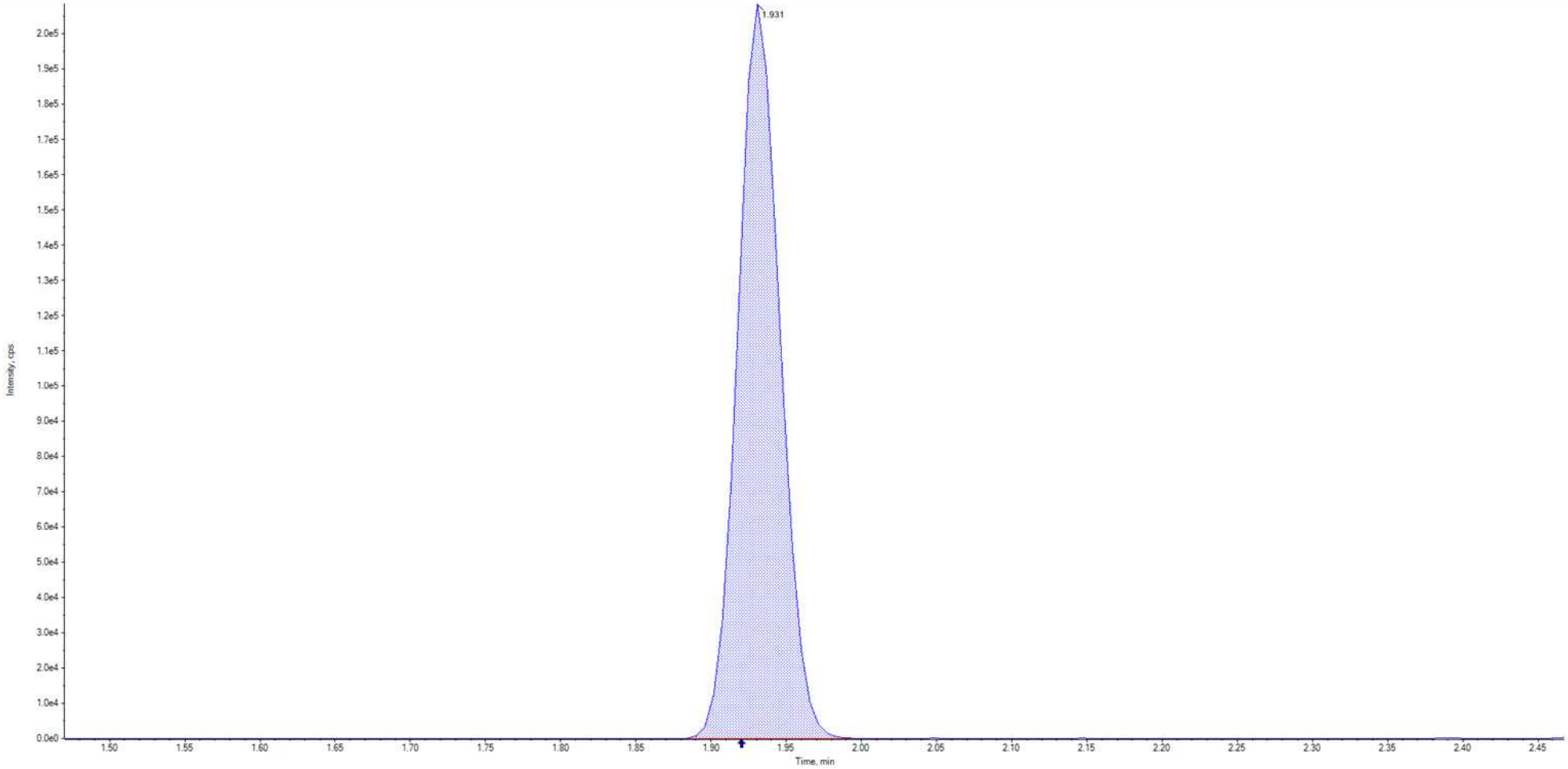
13C2-PFDoA
Sample: WG2038851-1,1633LOW



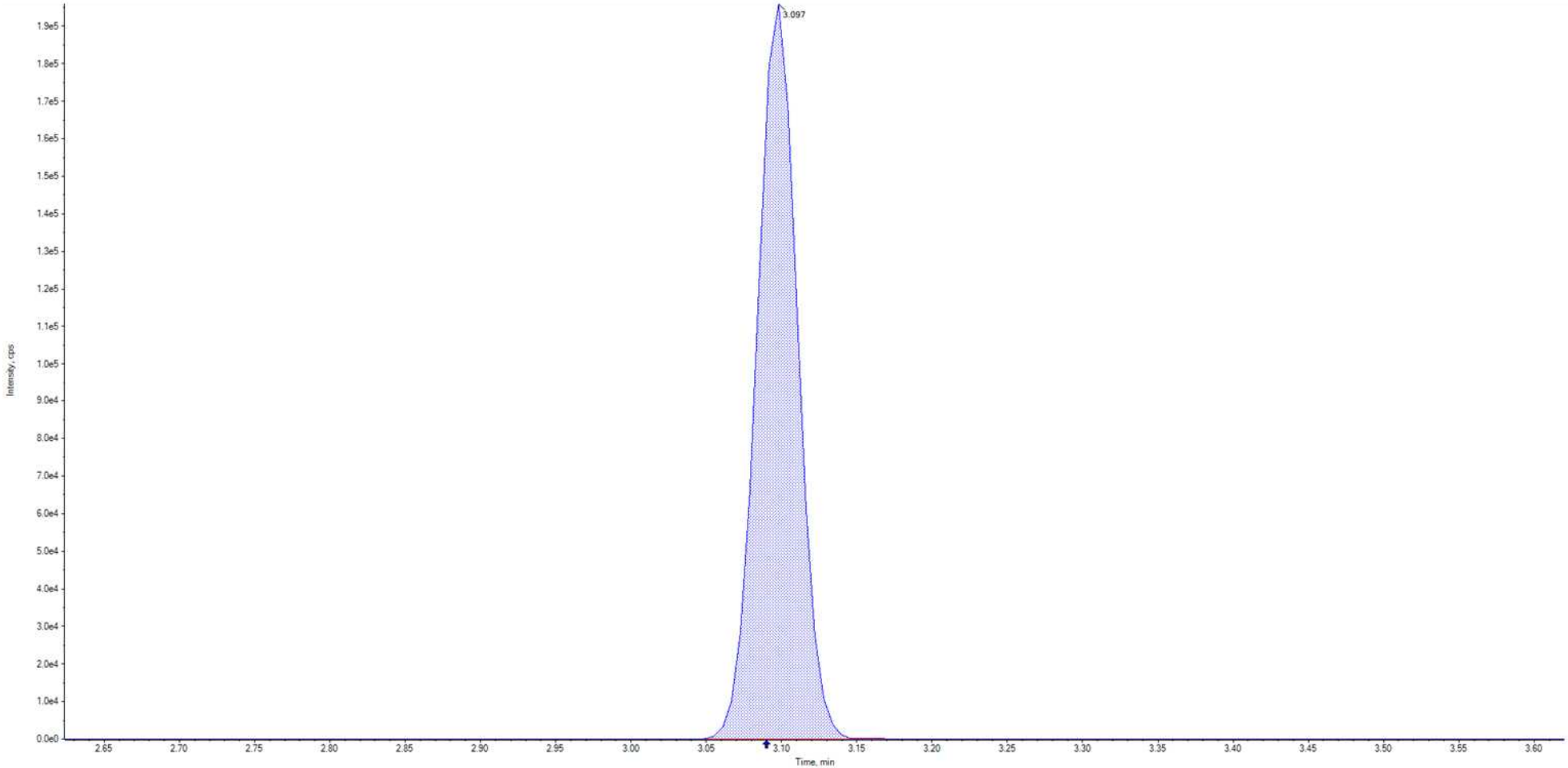
13C2-PFTeDA
Sample: WG2038851-1,1633LOW



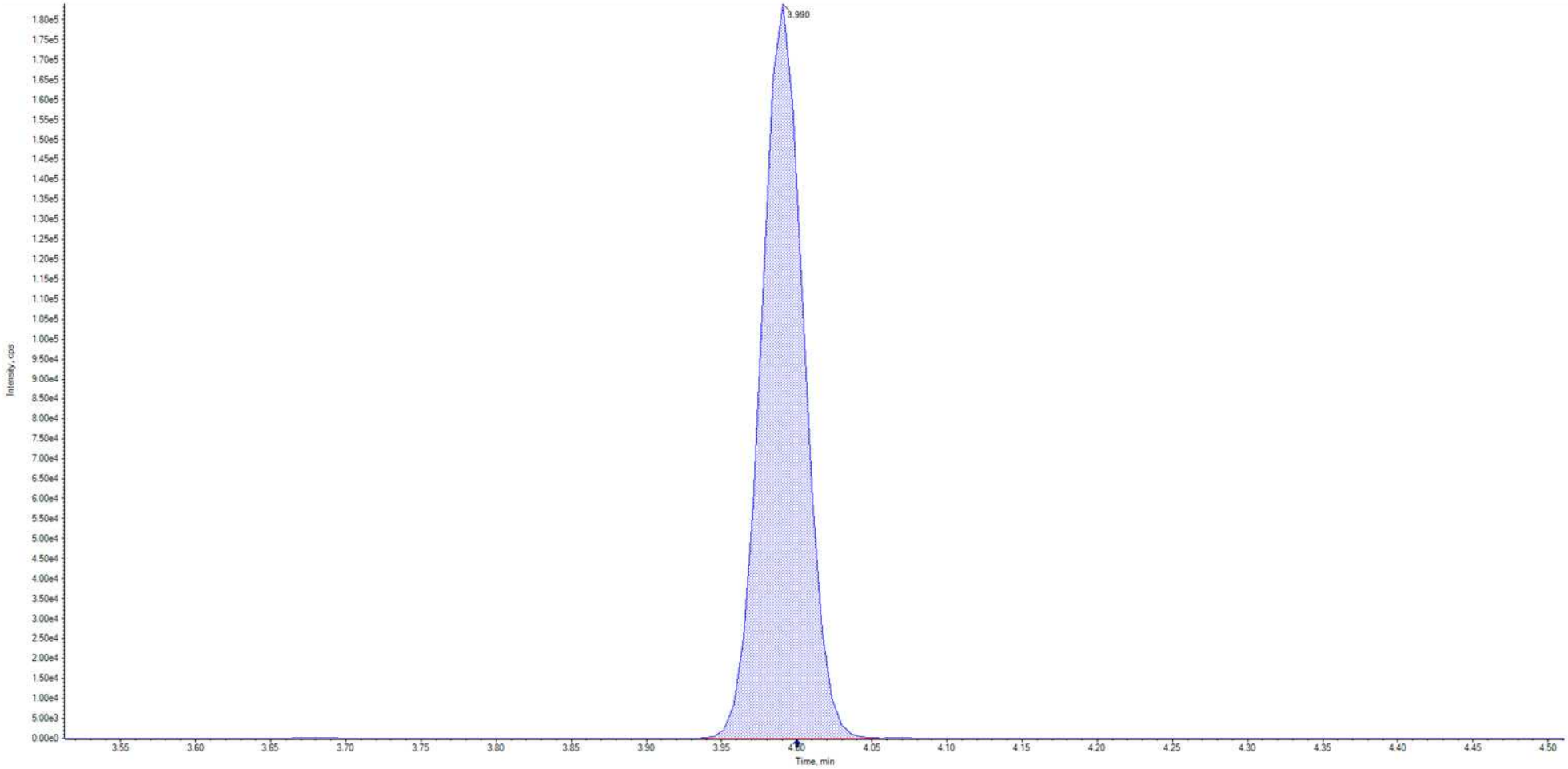
13C3-PFBS
Sample: WG2038851-1,1633LOW



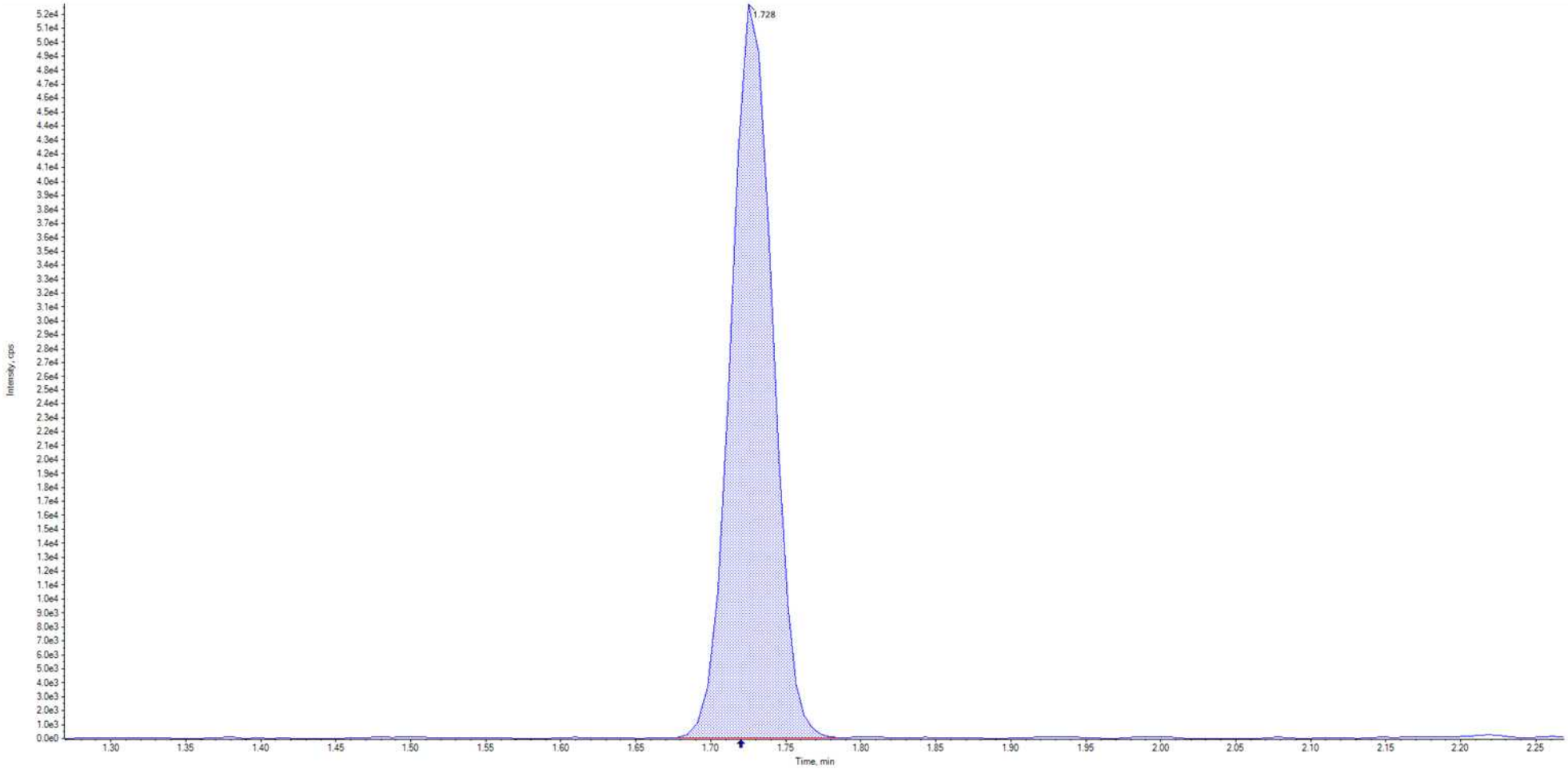
13C3-PFHxS
Sample: WG2038851-1,1633LOW



13C8-PFOS
Sample: WG2038851-1,1633LOW

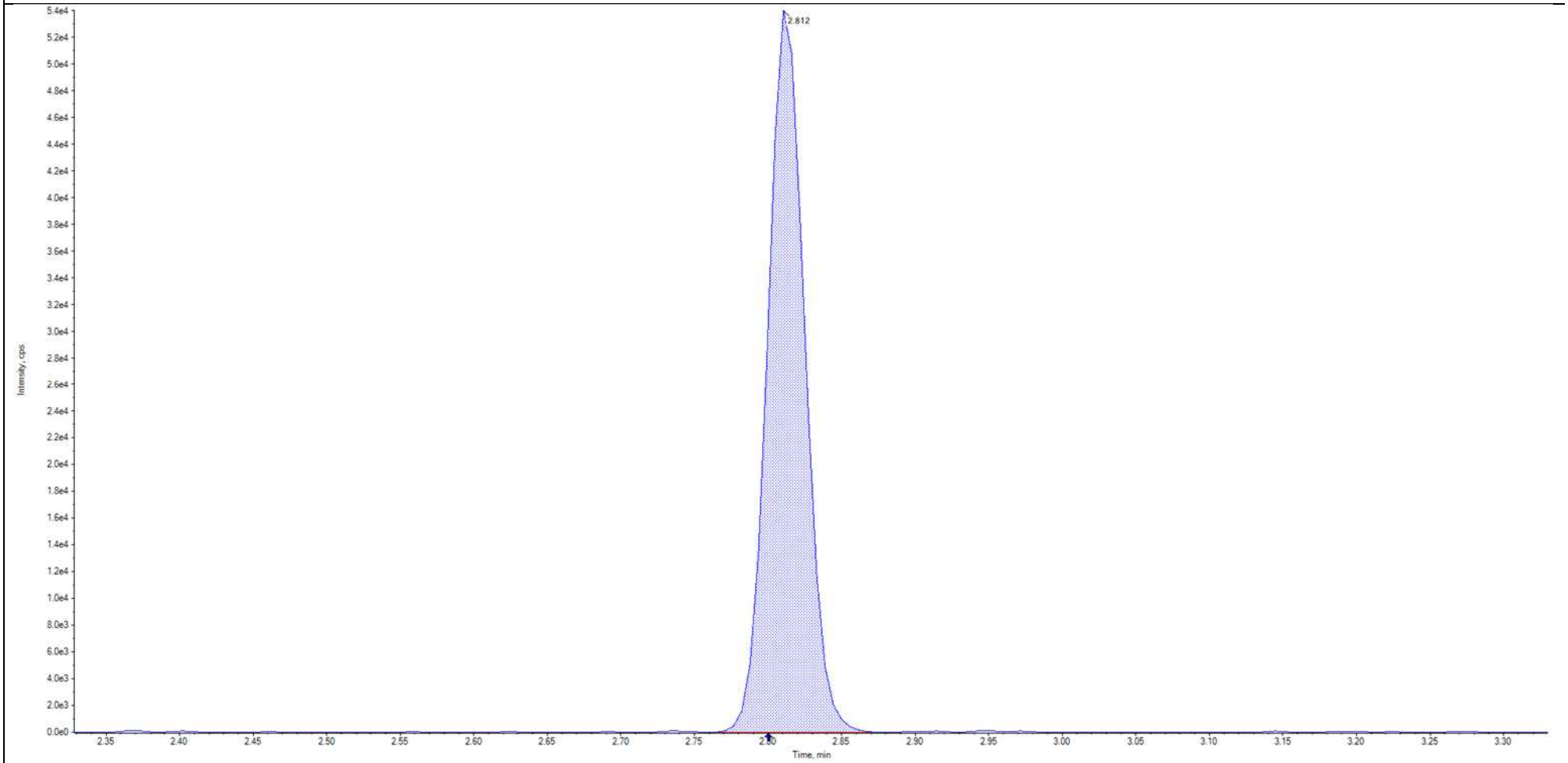


13C2-4:2FTS
Sample: WG2038851-1,1633LOW



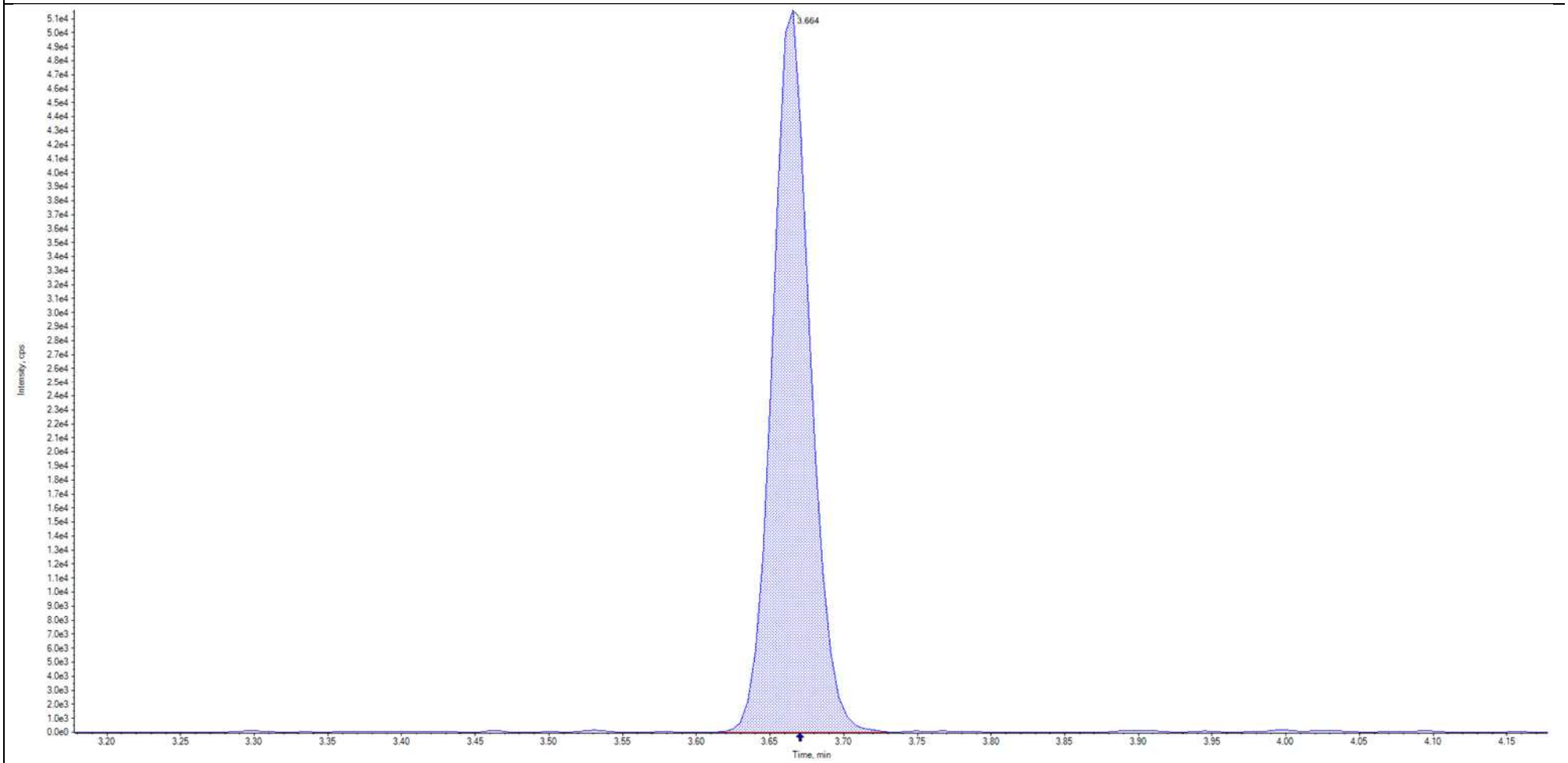
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

13C2-6:2FTS
Sample: WG2038851-1,1633LOW

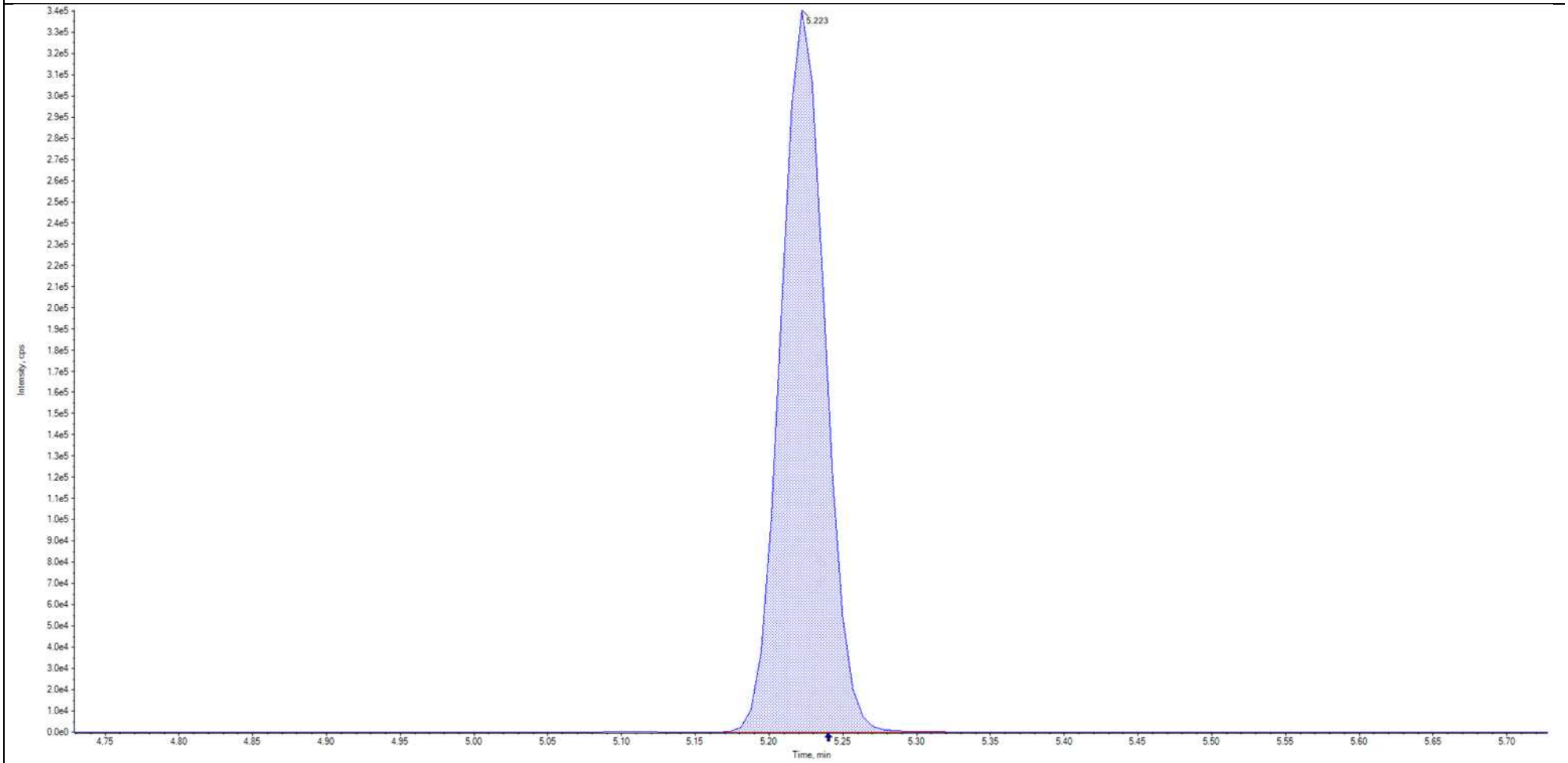


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

13C2-8:2FTS
Sample: WG2038851-1,1633LOW

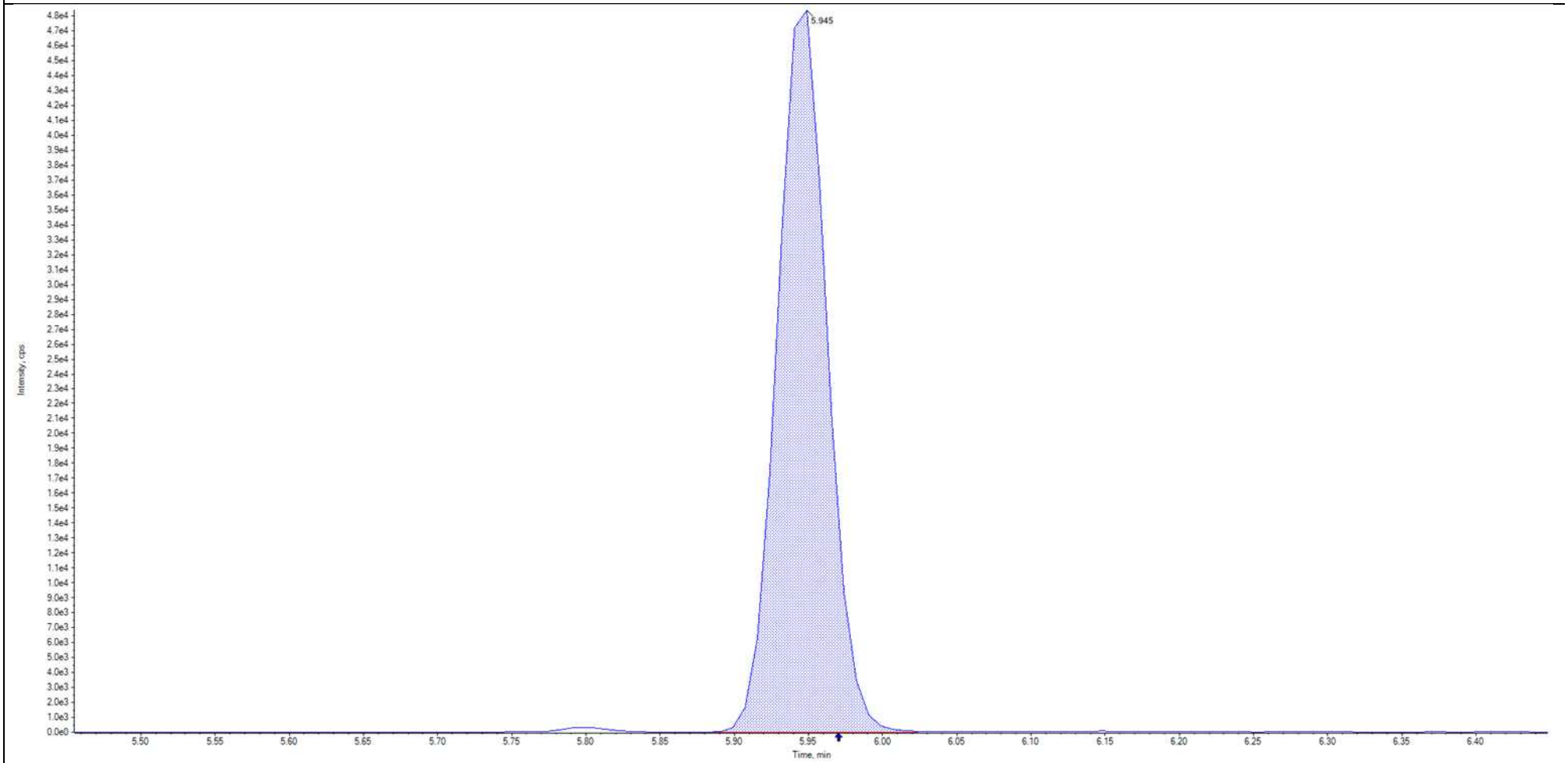


13C8-PFOSA
Sample: WG2038851-1,1633LOW

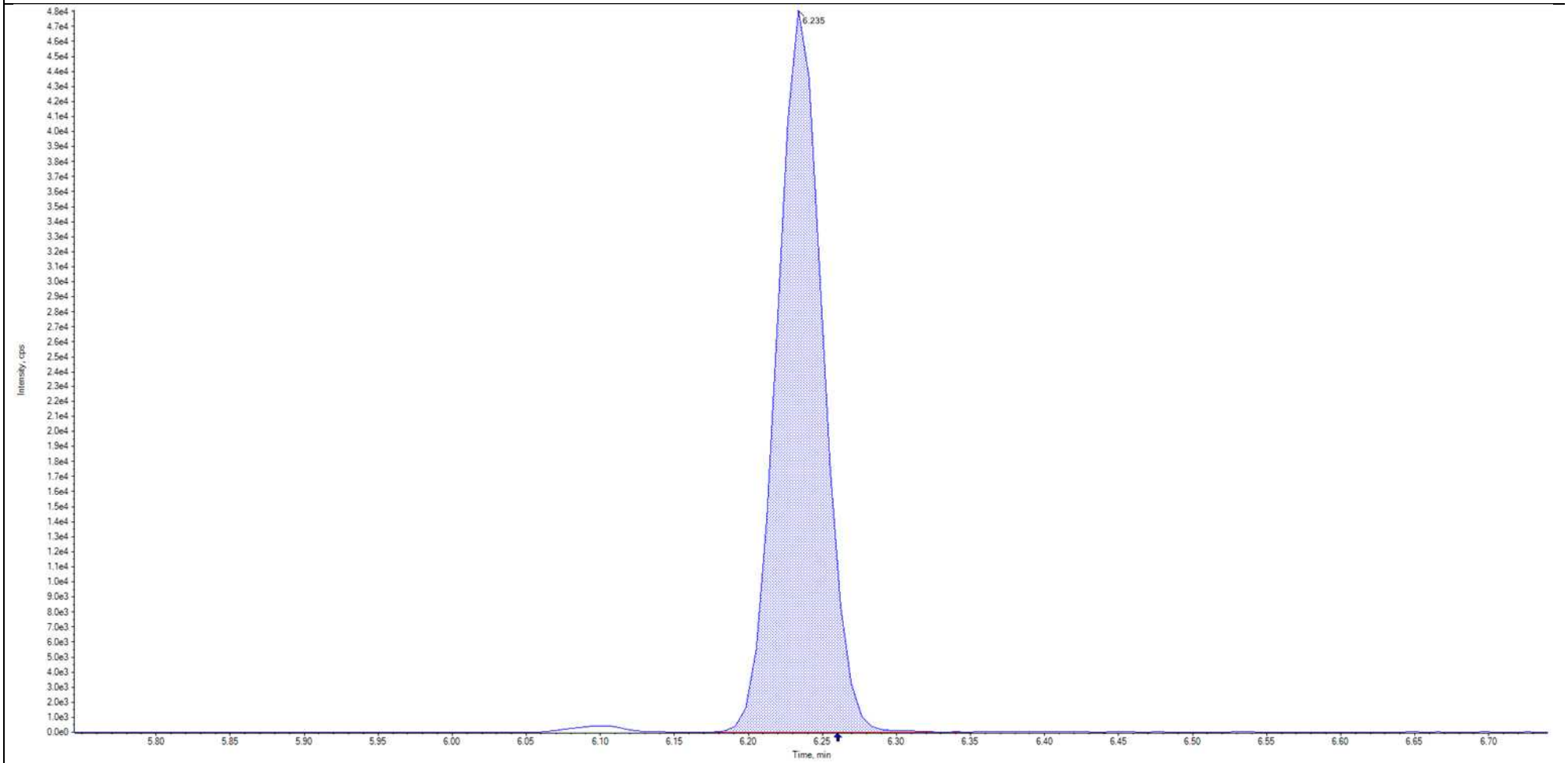


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_09.wiff2_1
Last Altered: 3/11/2025 11:33:25 AM
Generated: 3/11/2025 7:33:31 AM

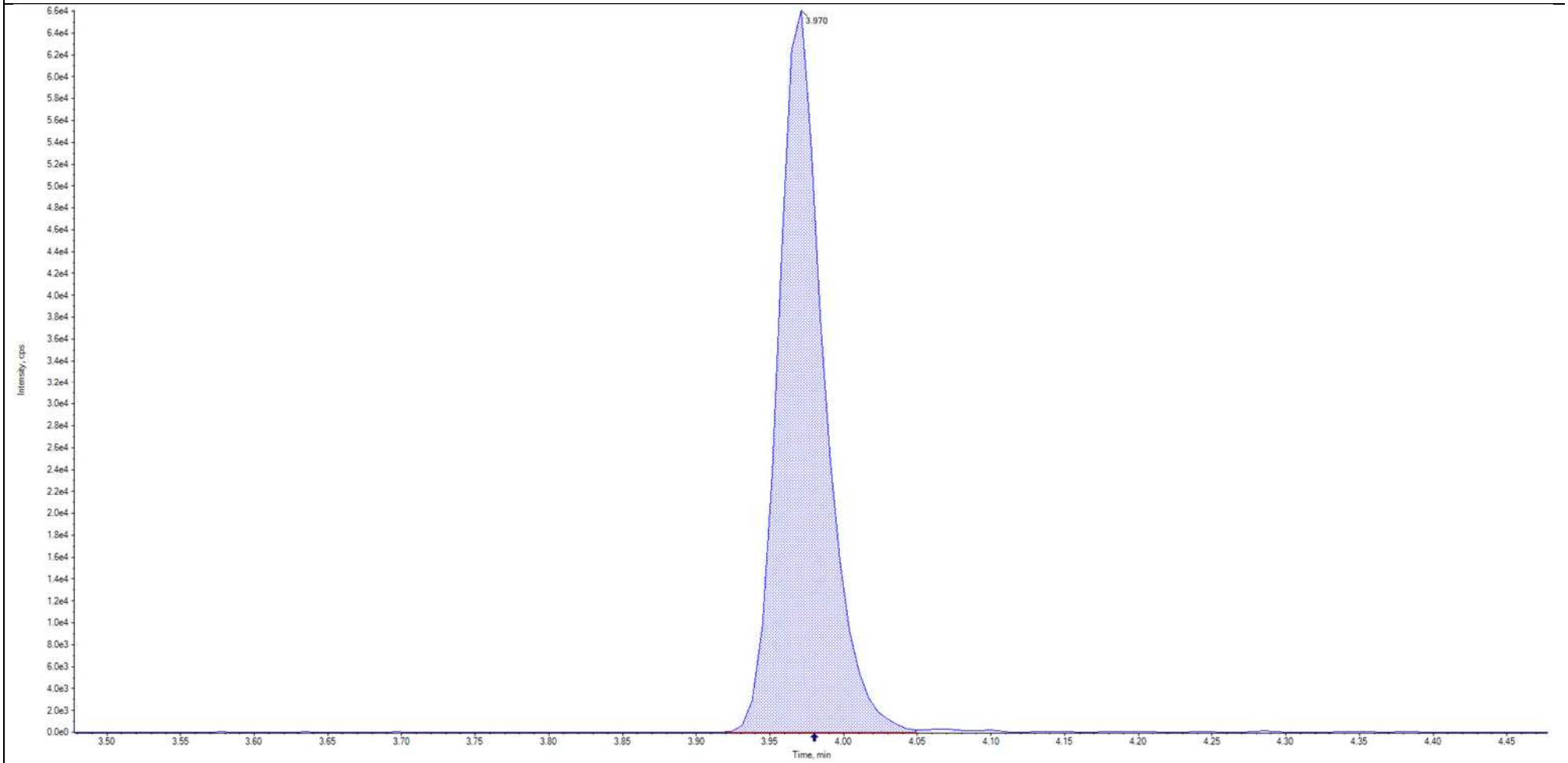
d3-NMeFOSA
Sample: WG2038851-1,1633LOW



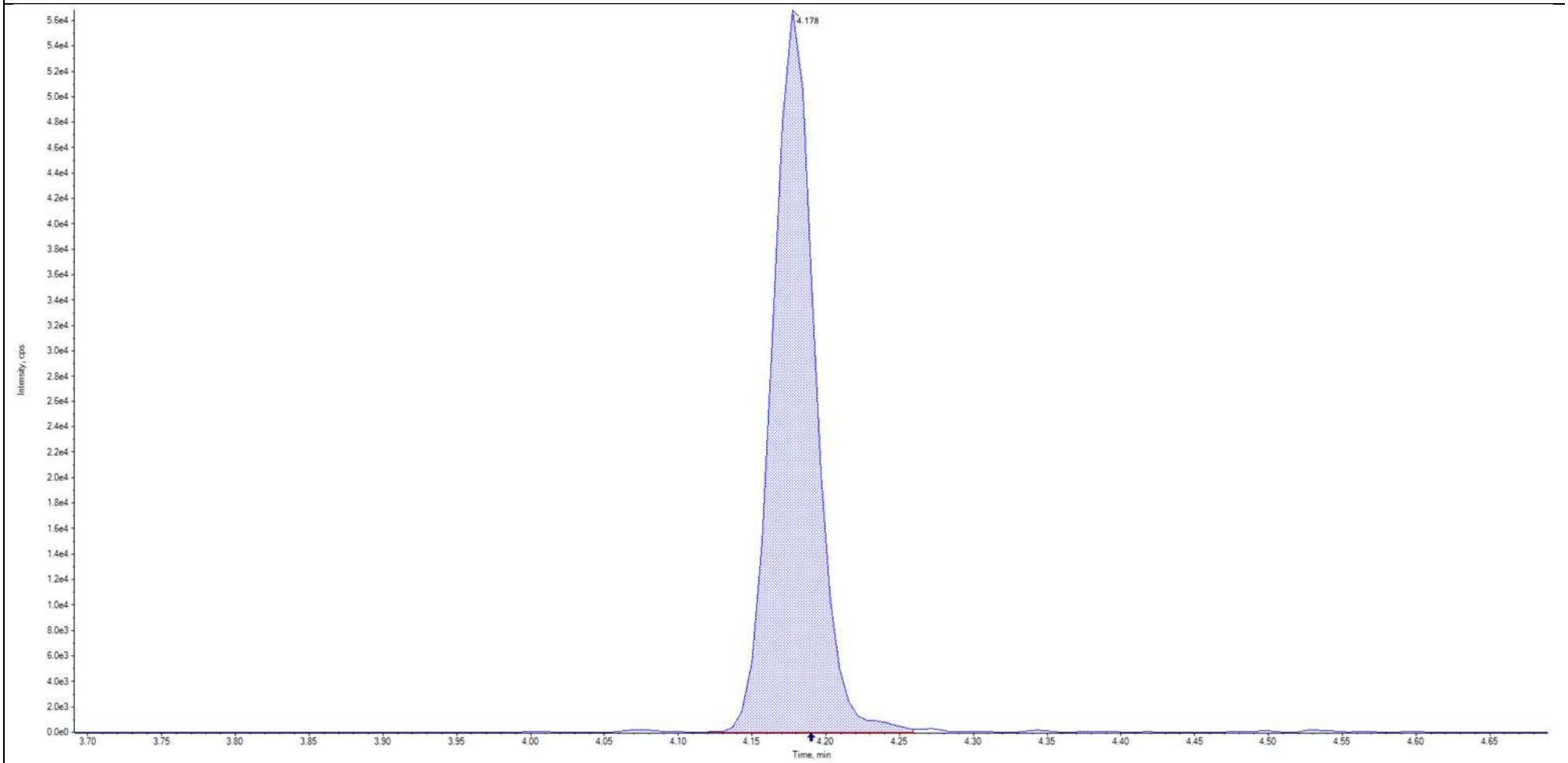
d5-NEtFOSA
Sample: WG2038851-1,1633LOW



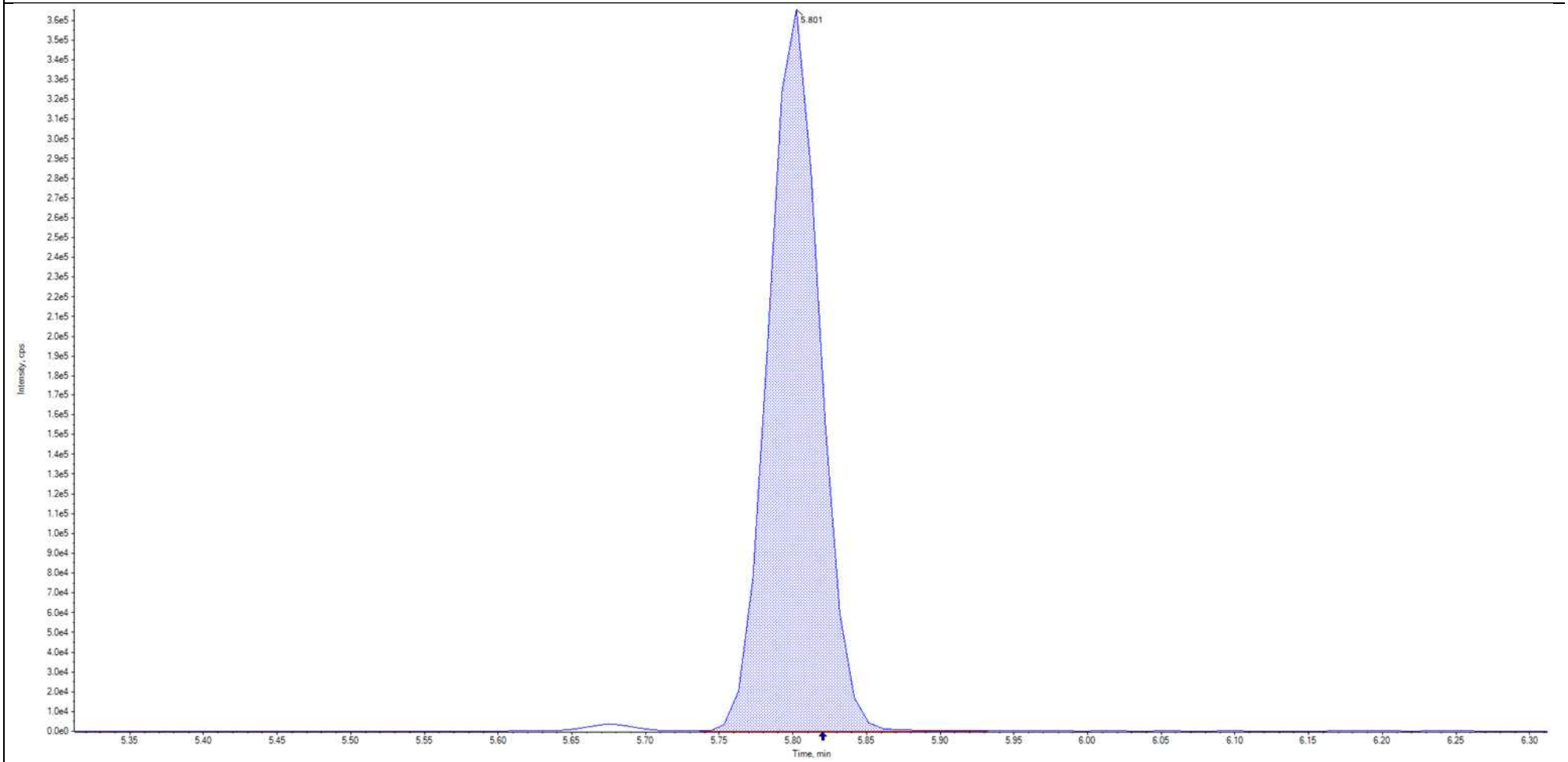
d3-NMeFOSAA
Sample: WG2038851-1,1633LOW



d5-NEtFOSAA
Sample: WG2038851-1,1633LOW

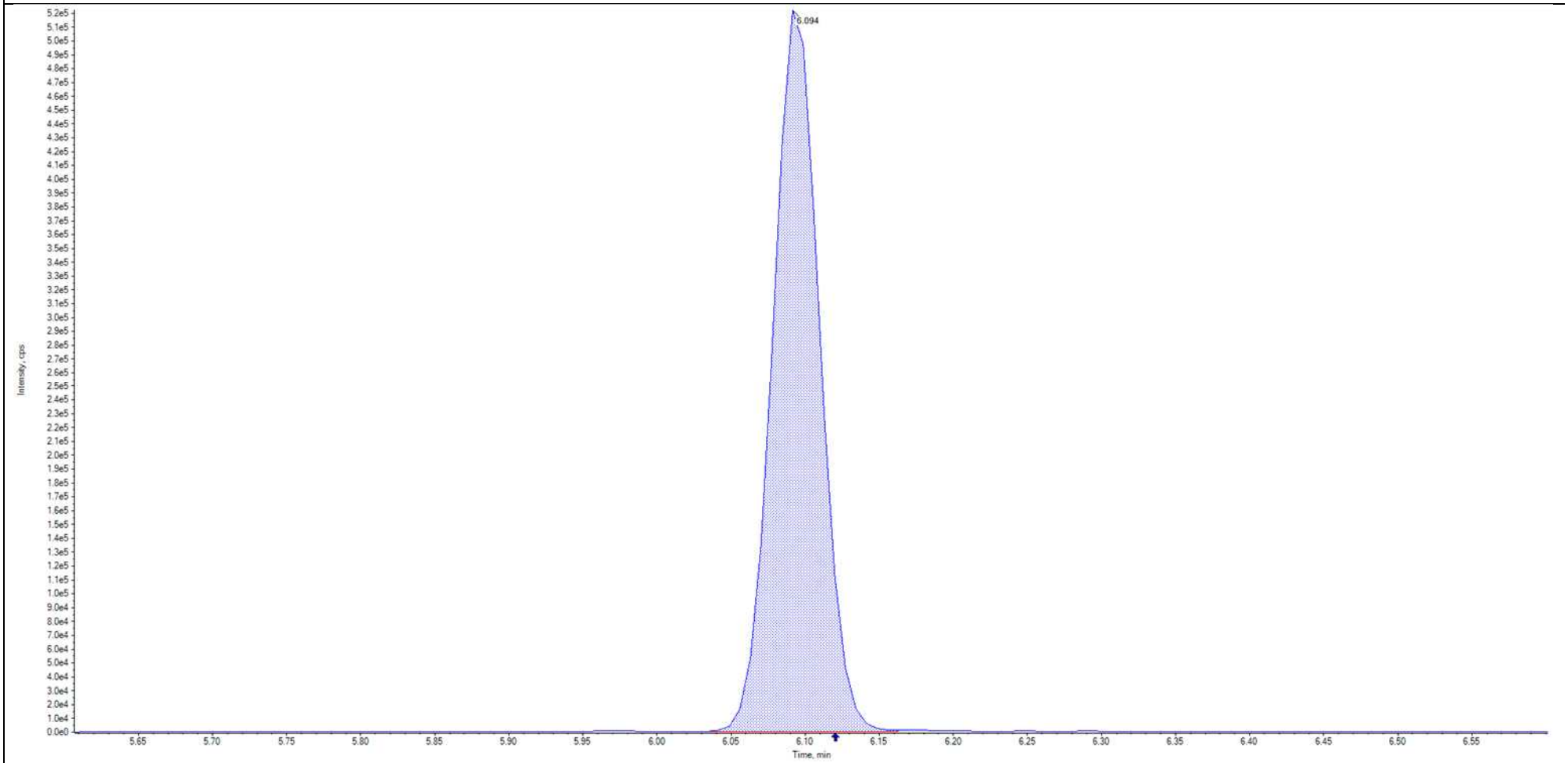


d7-NMeFOSE
Sample: WG2038851-1,1633LOW

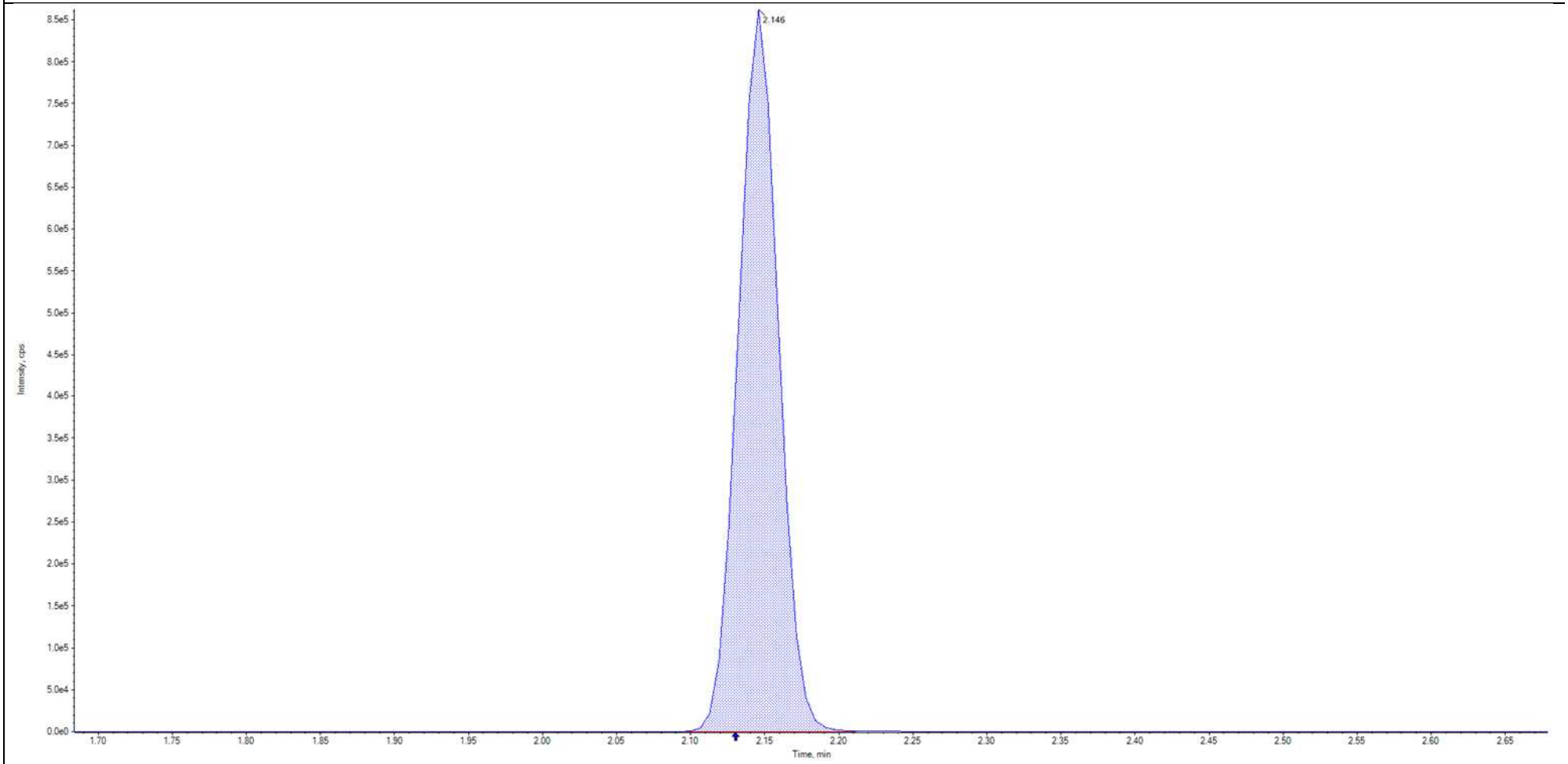


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Alpha Analytical LLC
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d9-NEtFOSE
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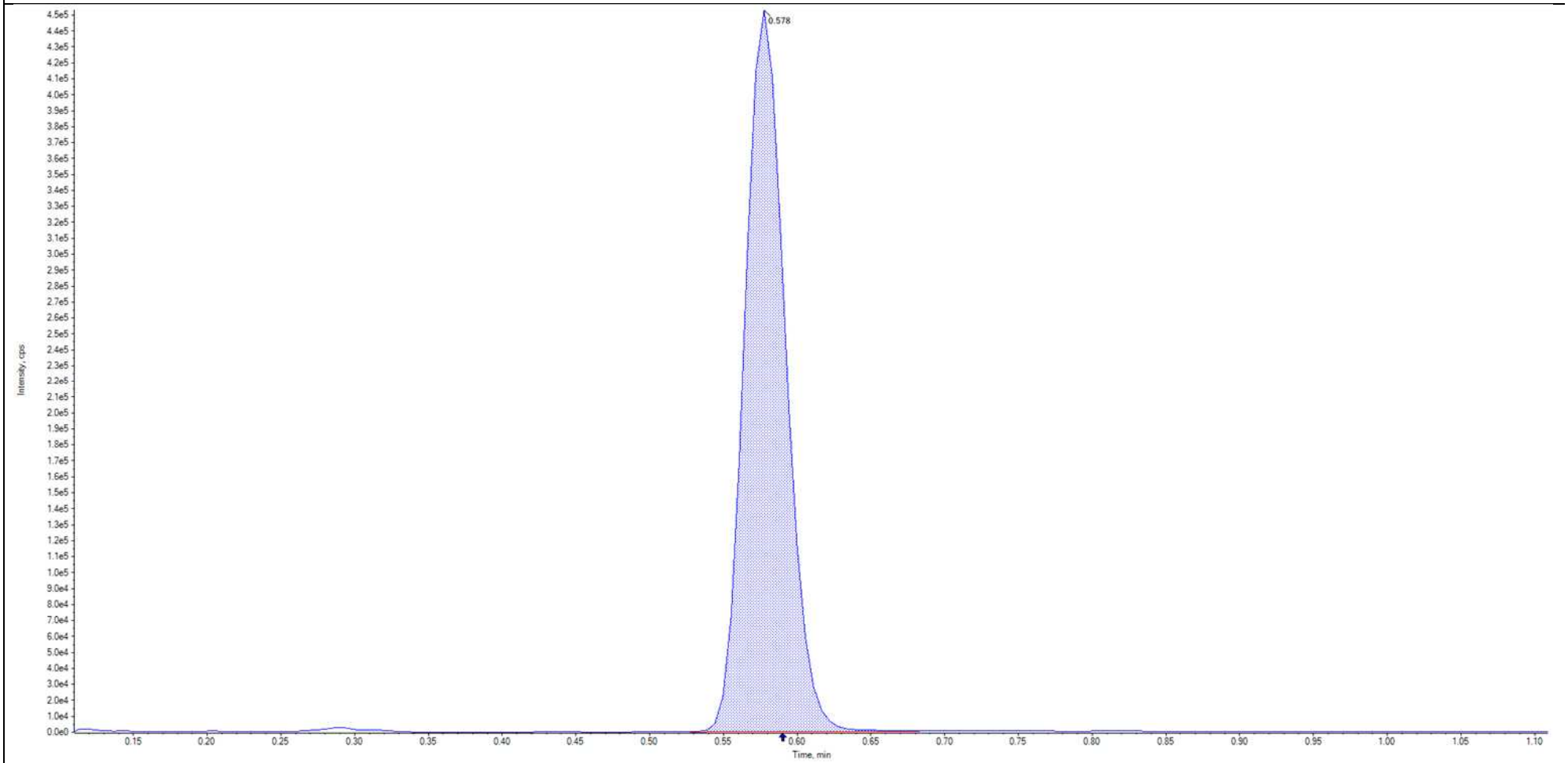


13C3-HFPO-DA
Sample: WG2038851-1,1633LOW

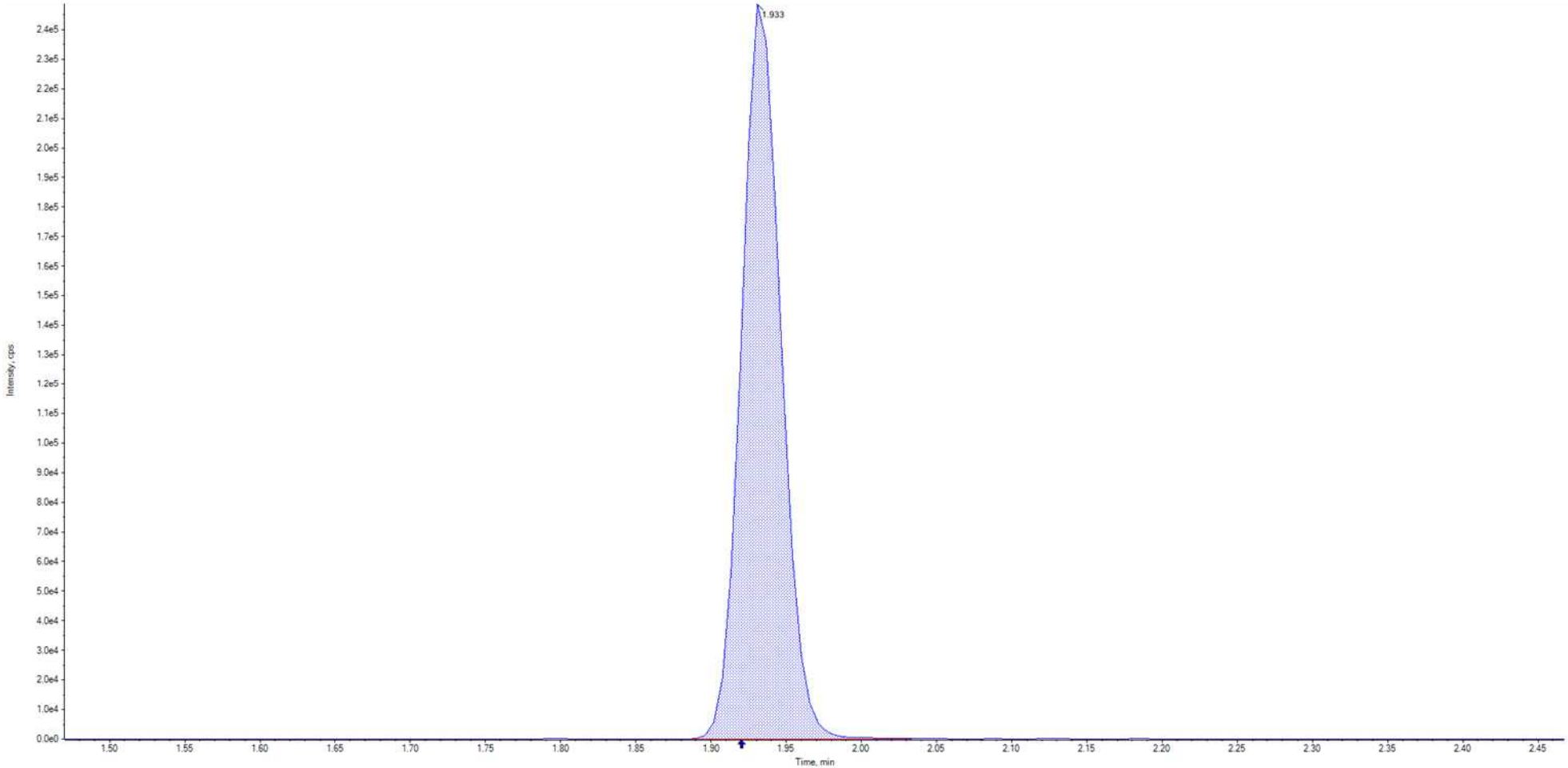


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13C3-PFBA
Sample: WG2038851-1,1633LOW

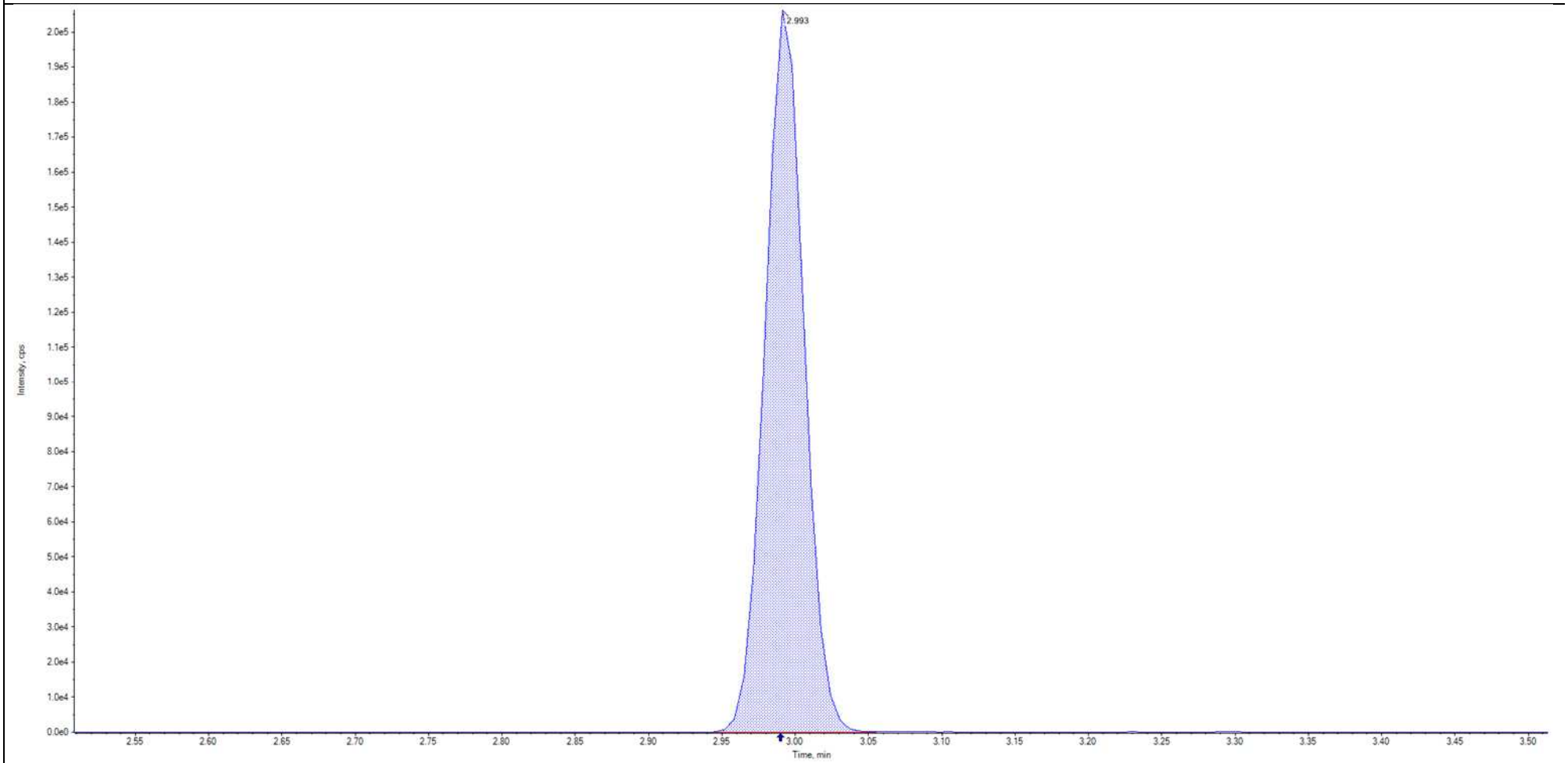


13C2-PFHxA
Sample: WG2038851-1,1633LOW



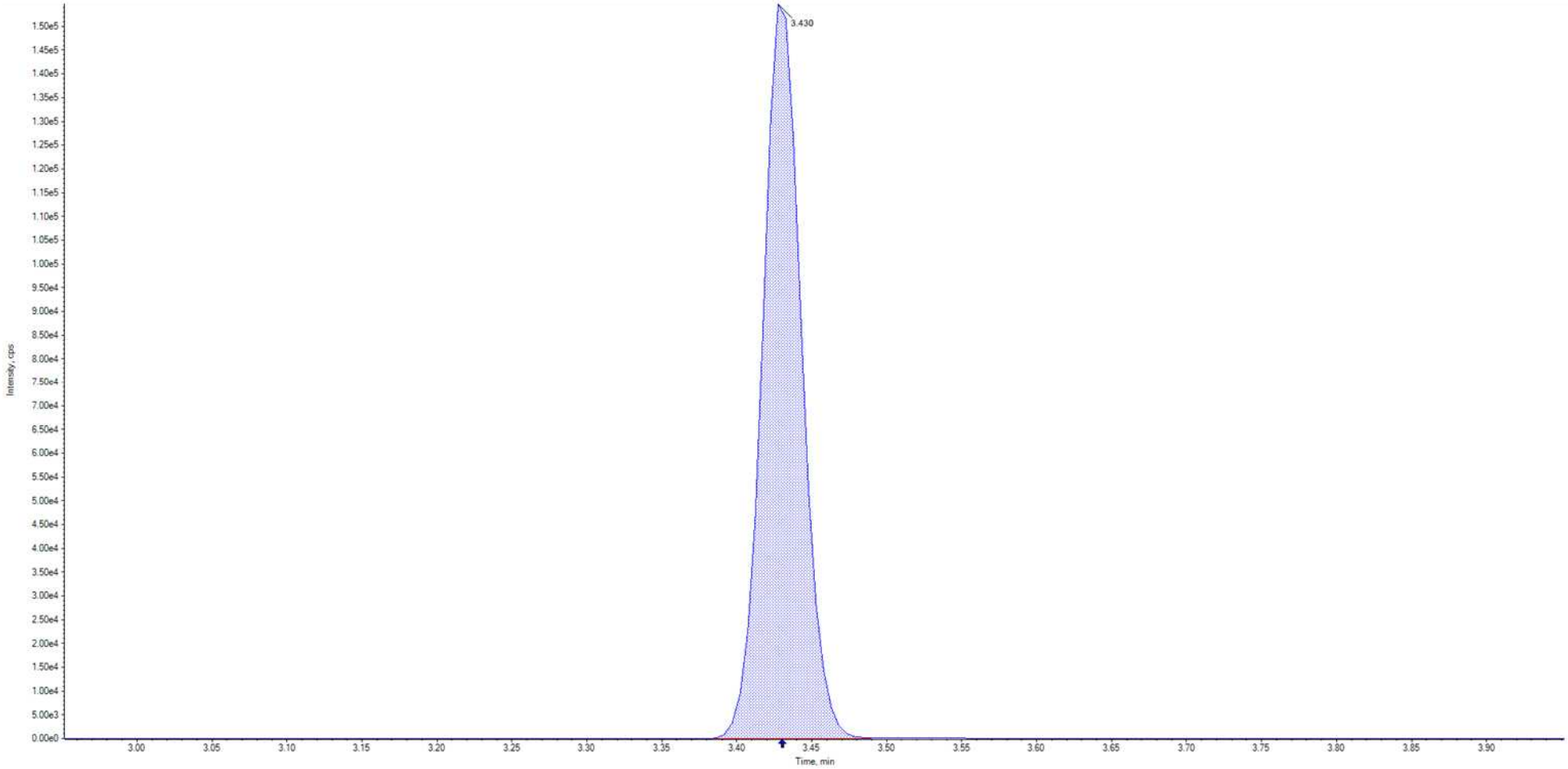
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13C4-PFOA
Sample: WG2038851-1,1633LOW

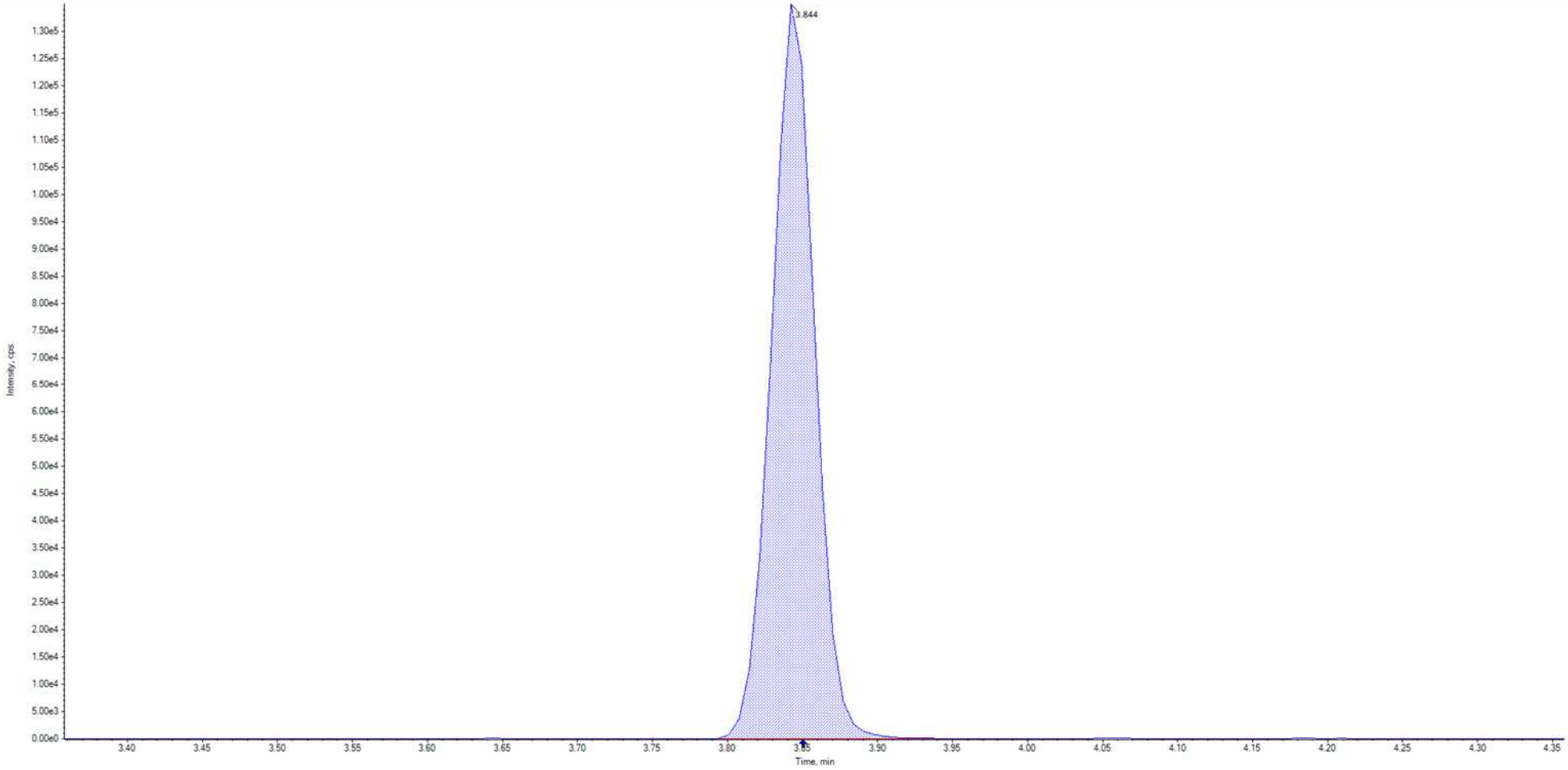


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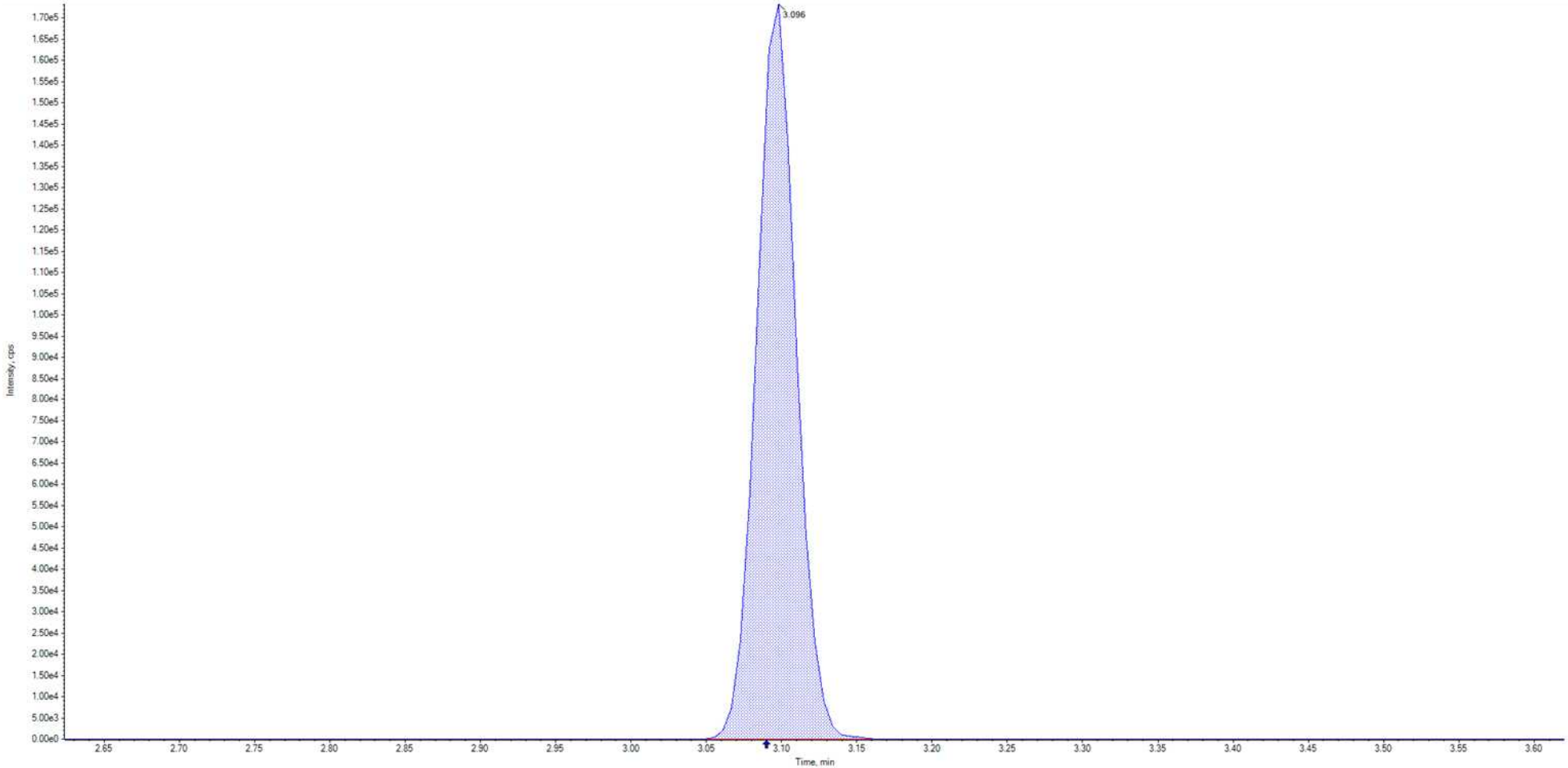
13C5-PFNA
Sample: WG2038851-1,1633LOW



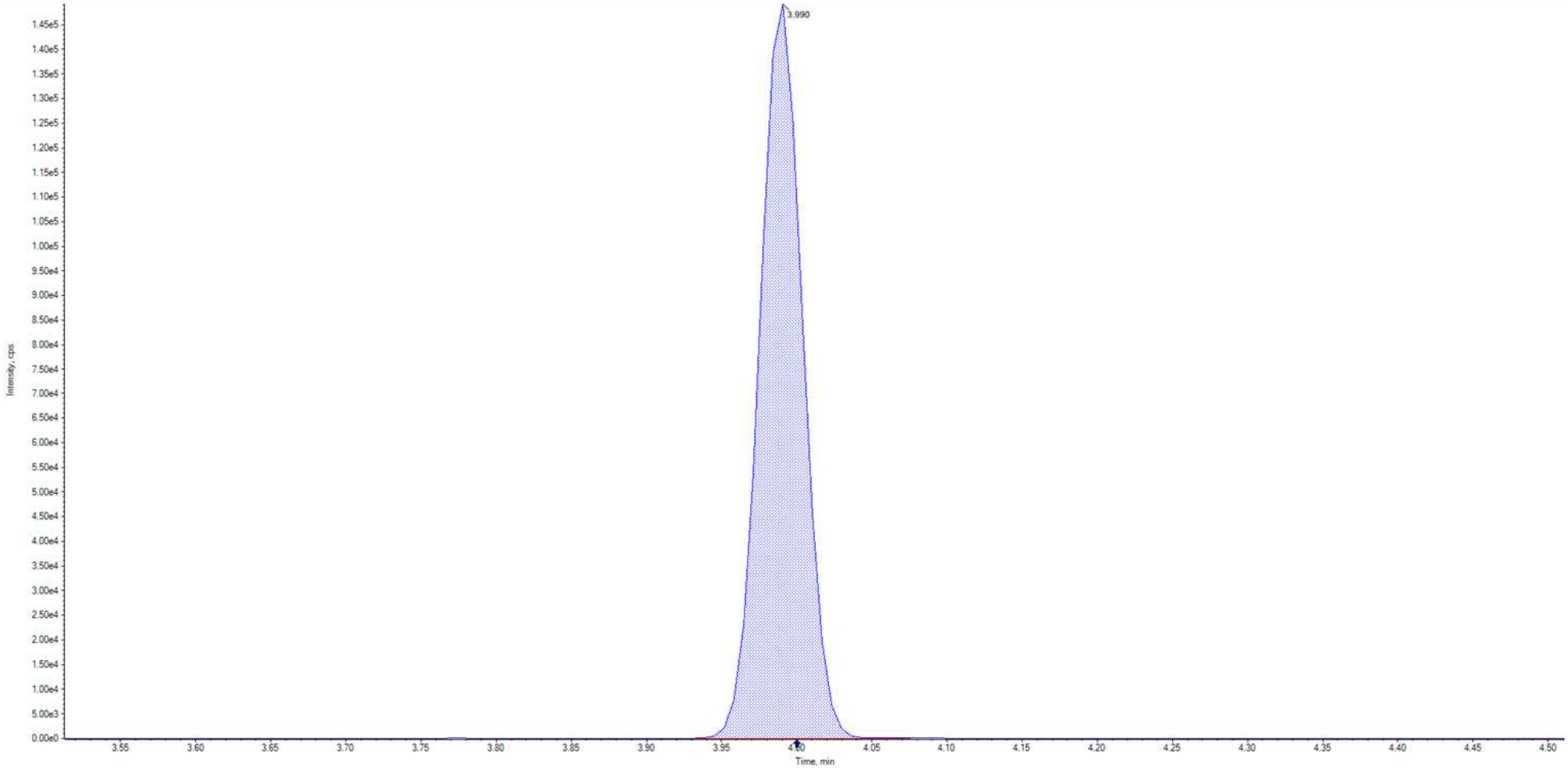
13C2-PFDA
Sample: WG2038851-1,1633LOW



18O2-PFHxS
Sample: WG2038851-1,1633LOW



13C4-PFOS
Sample: WG2038851-1,1633LOW



Alpha Analytical LLC
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Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

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Date & Time: 2025-03-11T12:02:21
Description: WG2038851,WG2030000,ICAL22044,1633FMED
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.60	213.0 / 169.0	3229847		19.425	N/A	N/A	N/A	97.1
2	PFPeA	2706-90-3	1.18	263.0 / 219.0	1513978		9.355	0.007	N/A	N/A	93.6
3	PFPeA_2	2706-90-3	1.18	263.0 / 68.9	10436		9.194	0.007	N/A	N/A	91.9
4	PFHxA	307-24-4	1.93	313.0 / 269.0	970908		4.762	0.086	0.081	Pass	95.3
5	PFHxA_2	307-24-4	1.93	313.0 / 119.0	83857		4.838	0.086	0.081	Pass	96.8
6	PFHpA	375-85-9	2.51	363.1 / 319.0	1081759		4.614	0.387	0.373	Pass	92.3
7	PFHpA_2	375-85-9	2.51	363.1 / 169.0	418649		4.523	0.387	0.373	Pass	90.5

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	3.00	413.1 / 369.1	1081522	M5	5.201	0.429	0.424	Pass	104.0
9	PFOA_2	335-67-1	3.00	413.1 / 169.0	464477	M5	5.277	0.429	0.424	Pass	105.6
10	PFNA	375-95-1	3.45	462.8 / 418.9	735144	M5	4.592	0.499	0.493	Pass	91.8
11	PFNA_2	375-95-1	3.45	462.8 / 219.0	366980	M5	4.708	0.499	0.493	Pass	94.2
12	PFDA	335-76-2	3.87	513.1 / 469.1	1170003		4.606	0.176	0.188	Pass	92.1
13	PFDA_2	335-76-2	3.87	513.1 / 219.0	206036		4.405	0.176	0.188	Pass	88.1
14	PFUnA	2058-94-8	4.27	563.1 / 519.1	1279806		4.626	0.151	0.146	Pass	92.5
15	PFUnA_2	2058-94-8	4.27	563.1 / 269.0	193687		4.871	0.151	0.146	Pass	97.4
16	PFDoA	307-55-1	4.66	613.1 / 569.1	1572301		4.900	0.132	0.142	Pass	98.0
17	PFDoA_2	307-55-1	4.66	613.1 / 319.0	206950		4.680	0.132	0.142	Pass	93.6
18	PFTrDA	72629-94-8	5.04	663.1 / 619.1	1519691		5.391	0.156	0.152	Pass	107.8
19	PFTrDA_2	72629-94-8	5.04	663.1 / 169.0	237496		5.486	0.156	0.152	Pass	109.7
20	PFTeDA	376-06-7	5.41	713.1 / 669.1	1328842		4.772	0.160	0.154	Pass	95.4
21	PFTeDA_2	376-06-7	5.41	713.1 / 169.0	212732		4.679	0.160	0.154	Pass	93.6
22	PFBS	375-73-5	1.92	299.1 / 80.1	755040		4.057	0.381	0.374	Pass	91.4

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.92	299.1 / 99.1	287813		4.435	0.381	0.374	Pass	94.4
24	PFPeS	2706-91-4	2.57	349.1 / 80.1	782073		4.311	0.323	0.314	Pass	91.7
25	PFPeS_2	2706-91-4	2.57	349.1 / 99.1	252747		4.437	0.323	0.314	Pass	94.4
26	PFHxS	355-46-4	3.10	399.1 / 80.1	691125	M5	4.171	0.299	0.306	Pass	91.5
27	PFHxS_2	355-46-4	3.10	399.1 / 99.1	206935	M5	4.313	0.299	0.306	Pass	94.6
28	PFHpS	375-92-8	3.58	449.1 / 80.1	726956		4.660	0.322	0.316	Pass	97.9
29	PFHpS_2	375-92-8	3.58	449.1 / 99.1	233867		4.900	0.322	0.316	Pass	102.9
30	PFOS	1763-23-1	4.02	499.1 / 80.1	827330	M5	4.360	0.246	0.244	Pass	94.0
31	PFOS_2	1763-23-1	4.02	499.1 / 99.1	203227	M5	4.263	0.246	0.244	Pass	91.9
32	PFNS	68259-12-1	4.43	549.1 / 80.1	640346		4.957	0.298	0.294	Pass	103.3
33	PFNS_2	68259-12-1	4.43	549.1 / 99.1	190756		5.166	0.298	0.294	Pass	107.6
34	PFDS	335-77-3	4.82	599.1 / 80.1	691655		5.450	0.282	0.290	Pass	113.1
35	PFDS_2	335-77-3	4.82	599.1 / 99.1	195155		5.445	0.282	0.290	Pass	113.0
36	PFDoS	79780-39-5	5.56	699.2 / 80.1	632501		5.470	0.259	0.256	Pass	113.0
37	PFDoS_2	79780-39-5	5.56	699.2 / 99.1	164129		5.507	0.259	0.256	Pass	113.8

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.72	327.1 / 307.1	642680		17.893	0.644	0.650	Pass	95.7
39	4:2FTS_2	757124-72-4	1.72	327.1 / 81.1	413623		17.842	0.644	0.650	Pass	95.4
40	6:2FTS	27619-97-2	2.81	427.2 / 407.2	613877		18.006	0.650	0.620	Pass	94.8
41	6:2FTS_2	27619-97-2	2.81	427.2 / 81.1	398841		18.252	0.650	0.620	Pass	96.1
42	8:2FTS	39108-34-4	3.69	527.2 / 507.2	573591		19.046	0.681	0.676	Pass	99.2
43	8:2FTS_2	39108-34-4	3.68	527.2 / 81.1	390334		18.828	0.681	0.676	Pass	98.1
44	PFOSA	754-91-6	5.26	498.1 / 78.1	1186670	M5	4.922	0.024	0.026	Pass	98.4
45	PFOSA_2	754-91-6	5.26	498.1 / 478.0	28518	M5	4.579	0.024	0.026	Pass	91.6
46	NMeFOSA	31506-32-8	5.99	512.2 / 219.0	272484	M5	4.810	1.405	1.377	Pass	96.2
47	NMeFOSA_2	31506-32-8	5.95	512.2 / 169.0	382870		4.864	1.405	1.377	Pass	97.3
48	NEtFOSA	4151-50-2	6.28	526.2 / 219.0	263908		4.526	1.278	1.292	Pass	90.5
49	NEtFOSA_2	4151-50-2	6.24	526.2 / 169.0	337322		4.637	1.278	1.292	Pass	92.7
50	NMeFOSAA	2355-31-9	4.00	570.2 / 419.1	165616		4.351	0.690	0.697	Pass	87.0
51	NMeFOSAA_2	2355-31-9	4.00	570.2 / 483.0	114287		4.179	0.690	0.697	Pass	83.6
52	NEtFOSAA	2991-50-6	4.21	584.2 / 419.1	169052	M5	4.707	0.532	0.557	Pass	94.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.21	584.2 / 526.2	89987	M5	4.546	0.532	0.557	Pass	90.9
54	NMeFOSE	24448-09-7	5.86	616.1 / 58.9	4130202	M5	48.584	N/A	N/A	N/A	97.2
55	NEtFOSE	1691-99-2	6.15	630.0 / 58.9	5576292	M5	45.892	N/A	N/A	N/A	91.8
56	HFPO-DA	13252-13-6	2.14	285.0 / 169.0	3260166		19.025	0.524	0.501	Pass	95.1
57	HFPO-DA_2	13252-13-6	2.14	285.0 / 184.9	1707426		18.898	0.524	0.501	Pass	94.5
58	ADONA	919005-14-4	2.69	376.9 / 251.0	6030828		17.453	0.647	0.691	Pass	92.3
59	ADONA_2	919005-14-4	2.69	376.9 / 84.8	3900523		17.038	0.647	0.691	Pass	90.2
60	9Cl-PF3ONS	756426-58-1	4.30	530.8 / 351.1	6226061		19.256	0.349	0.332	Pass	103.0
61	9Cl-PF3ONS_2	756426-58-1	4.30	532.8 / 353.0	2170064		20.192	0.349	0.332	Pass	108.0
62	11Cl-PF3OUdS	763051-92-9	5.09	630.9 / 451.0	5787013		21.165	0.316	0.322	Pass	112.0
63	11Cl-PF3OUdS_2	763051-92-9	5.09	632.9 / 452.9	1827695		20.825	0.316	0.322	Pass	110.2
64	3:3FTCA	356-02-5	1.58	241.1 / 177.1	315450		25.243	1.023	1.010	Pass	101.0
65	3:3FTCA_2	356-02-5	1.59	241.1 / 117.0	322669		23.779	1.023	1.010	Pass	95.1
66	5:3FTCA	914637-49-3	3.04	341.1 / 237.1	6277425		123.143	0.995	1.017	Pass	98.5
67	5:3FTCA_2	914637-49-3	3.04	341.1 / 217.0	6246145		121.608	0.995	1.017	Pass	97.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.08	441.1 / 316.9	5550431		127.739	1.328	1.343	Pass	102.2
69	7:3FTCA_2	812-70-4	4.08	441.1 / 337.1	7370685		128.323	1.328	1.343	Pass	102.7
70	PFEESA	113507-82-7	2.23	315.1 / 135.0	4609970		8.702	0.080	0.081	Pass	97.6
71	PFEESA_2	113507-82-7	2.23	315.1 / 82.9	369843		8.488	0.080	0.081	Pass	95.2
72	PFMPA	377-73-1	0.76	229.0 / 85.0	1649153		9.482	N/A	N/A	N/A	94.8
73	PFMBA	863090-89-5	1.44	279.0 / 85.0	1772878		9.571	N/A	N/A	N/A	95.7
74	NFDHA	151772-58-6	1.85	295.0 / 201.0	1422291		10.256	0.688	0.681	Pass	102.6
75	NFDHA_2	151772-58-6	1.85	295.0 / 84.9	977850		9.963	0.688	0.681	Pass	99.6
76	TDCA	516-50-7	2.67	499.1 / 124.1	1828523		8.537	5.501	5.680	Pass	85.4
77	TDCA_2	516-50-7	2.67	499.1 / 79.9	10058984		8.336	5.501	5.680	Pass	83.4
78	13C2D4-4:2FTS	Surr	1.71	333.2 / 312.1	159009		5.308	N/A	N/A	N/A	106.2
79	13C2-PFOA	Surr	3.00	415.0 / 370.0	399016		2.650	N/A	N/A	N/A	106.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.60	217.0 / 172.0	1860509		10.012	NA	NA	NA	100.1

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C5-PFPeA	EIS	1.18	268.0 / 223.0	843205		5.013	NA	NA	NA	100.3
13C5-PFHxA	EIS	1.92	318.0 / 273.0	397987		2.516	NA	NA	NA	100.7
13C4-PFHpA	EIS	2.50	367.0 / 322.0	403751		2.646	NA	NA	NA	105.9
13C8-PFOA	EIS	3.00	420.8 / 376.0	608218		2.246	NA	NA	NA	89.9
13C9-PFNA	EIS	3.44	472.0 / 427.0	296784		1.310	NA	NA	NA	104.8
13C6-PFDA	EIS	3.87	519.0 / 474.0	359149		1.380	NA	NA	NA	110.4
13C7-PFUnA	EIS	4.27	570.0 / 525.0	408470		1.422	NA	NA	NA	113.8

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.66	615.1 / 570.0	424420		1.469	NA	NA	NA	117.5
	13C2-PFTeDA	EIS	5.40	715.1 / 670.1	306269		1.635	NA	NA	NA	130.8
	13C3-PFBS	EIS	1.92	302.1 / 80.1	408184		2.402	NA	NA	NA	103.1
	13C3-PFHxS	EIS	3.10	402.1 / 80.1	379148		2.511	NA	NA	NA	105.9
	13C8-PFOS	EIS	4.01	507.1 / 80.1	398001		2.327	NA	NA	NA	96.9
	13C2-4:2FTS	EIS	1.71	329.1 / 81.1	109449		4.368	NA	NA	NA	93.1
	13C2-6:2FTS	EIS	2.81	429.2 / 81.1	100887		4.677	NA	NA	NA	98.2
	13C2-8:2FTS	EIS	3.68	529.2 / 81.1	108636		5.369	NA	NA	NA	111.9

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.25	506.1 / 78.1	752726		2.772	NA	NA	NA	110.9
d3-NMeFOSA	EIS	5.98	515.2 / 219.0	126335		2.576	NA	NA	NA	103.0
d5-NEtFOSA	EIS	6.27	531.2 / 219.0	119652		2.683	NA	NA	NA	107.3
d3-NMeFOSAA	EIS	3.99	573.2 / 419.1	209361		6.266	NA	NA	NA	125.3
d5-NEtFOSAA	EIS	4.20	589.3 / 419.1	165650		6.080	NA	NA	NA	121.6
d7-NMeFOSE	EIS	5.84	623.2 / 58.9	938139		26.596	NA	NA	NA	106.4
d9-NEtFOSE	EIS	6.13	639.2 / 58.9	1286300		27.184	NA	NA	NA	108.7

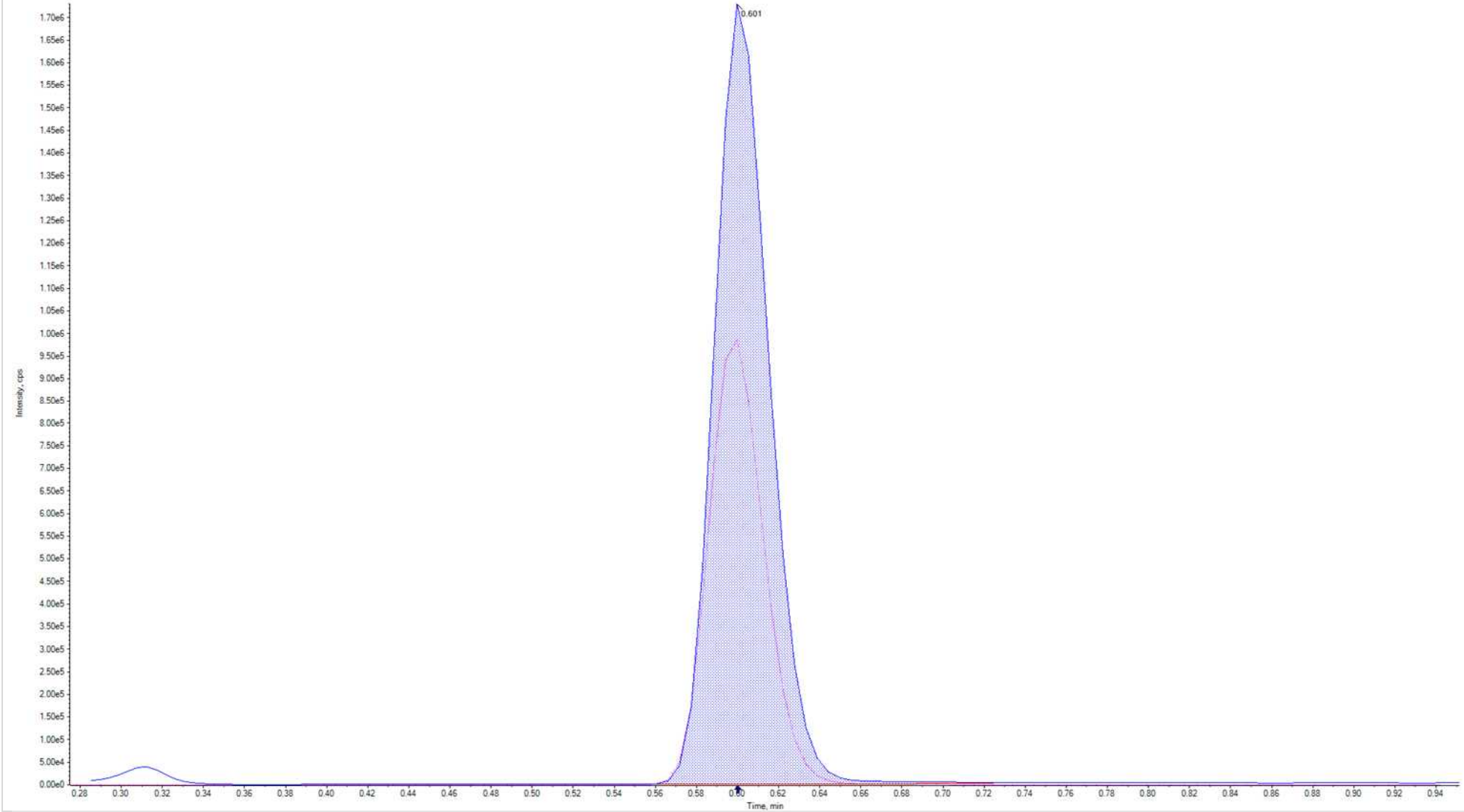
	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.13	287.0 / 169.0	1690889		10.108	NA	NA	NA	101.1
	13C3-PFBA	NIS	0.60	216.0 / 172.0	822253		5.673	NA	NA	NA	113.5
	13C2-PFHxA	NIS	1.92	315.0 / 270.0	465707		2.873	NA	NA	NA	114.9
	13C4-PFOA	NIS	2.99	417.0 / 372.0	411485		2.862	NA	NA	NA	114.5
	13C5-PFNA	NIS	3.44	468.0 / 423.0	283810		1.377	NA	NA	NA	110.2
	13C2-PFDA	NIS	3.87	515.1 / 470.1	303687		1.428	NA	NA	NA	114.3
	18O2-PFHxS	NIS	3.10	403.1 / 84.1	317562		2.698	NA	NA	NA	113.8
	13C4-PFOS	NIS	4.01	503.1 / 80.1	344134		2.863	NA	NA	NA	119.3

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

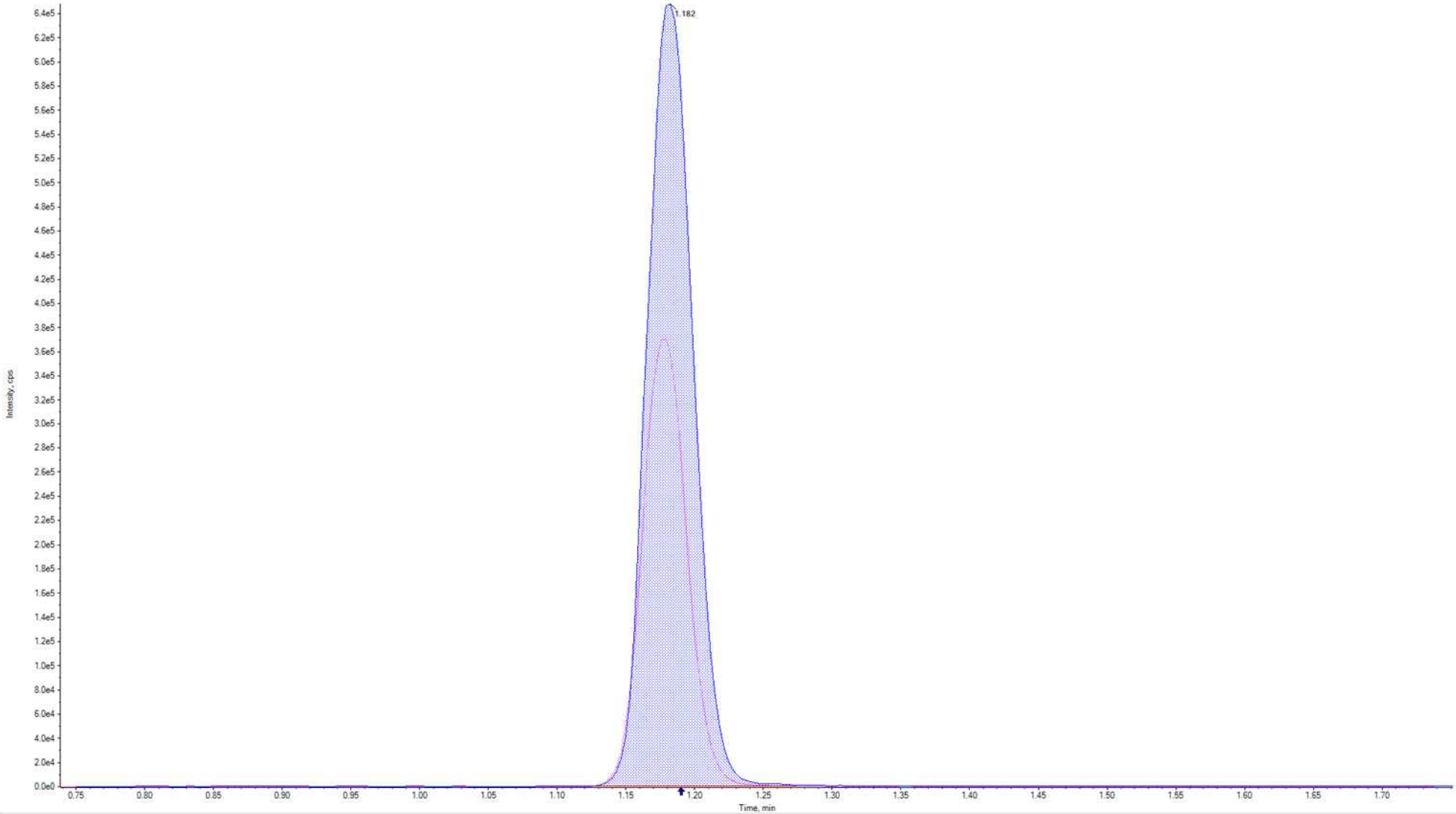
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PFBA
Sample: WG2038851-7,1633FMED S/N:1753.8 Points Across peak:35



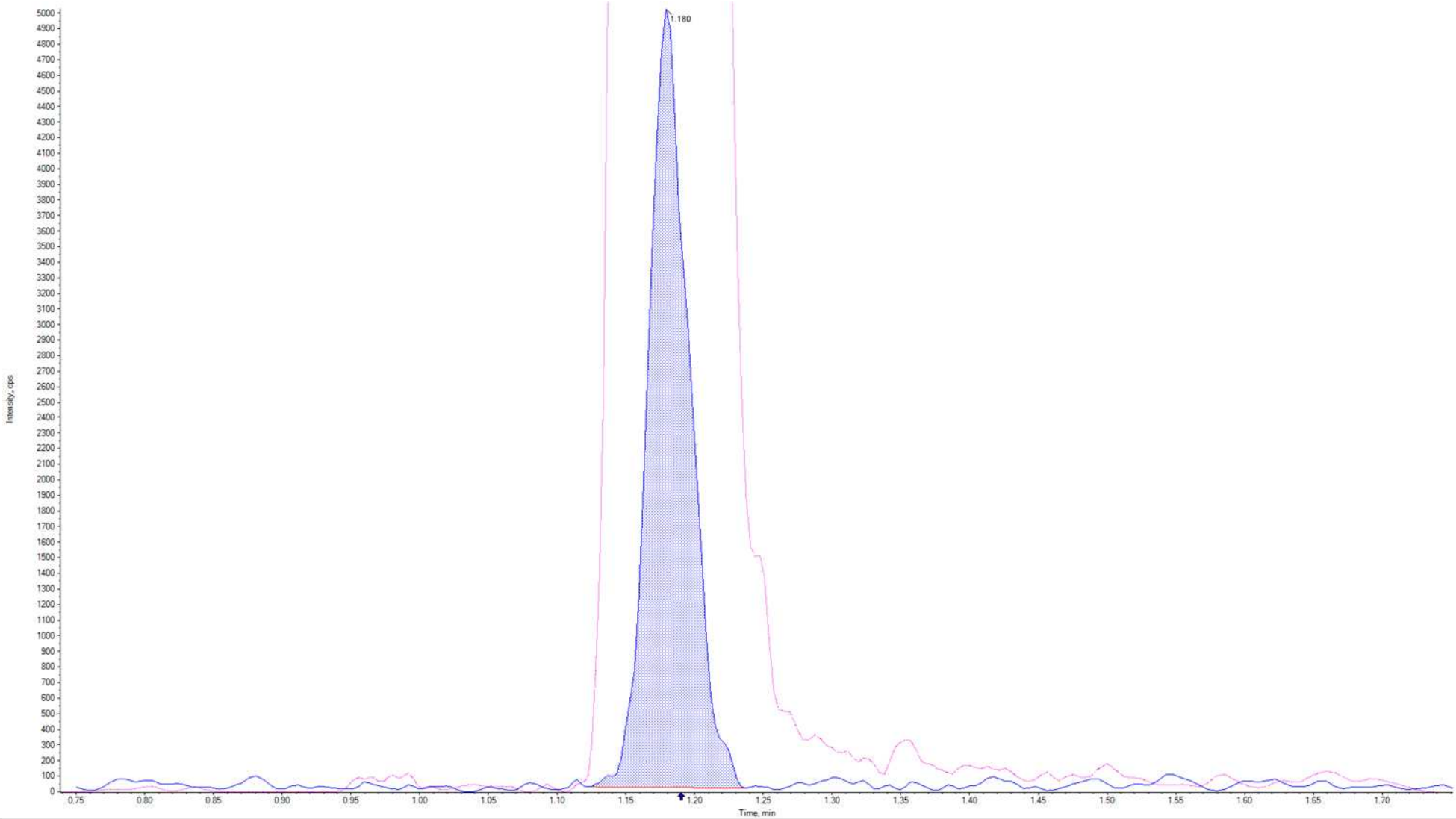
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PFPeA
Sample: WG2038851-7,1633FMED S/N:5954.9 Points Across peak:50



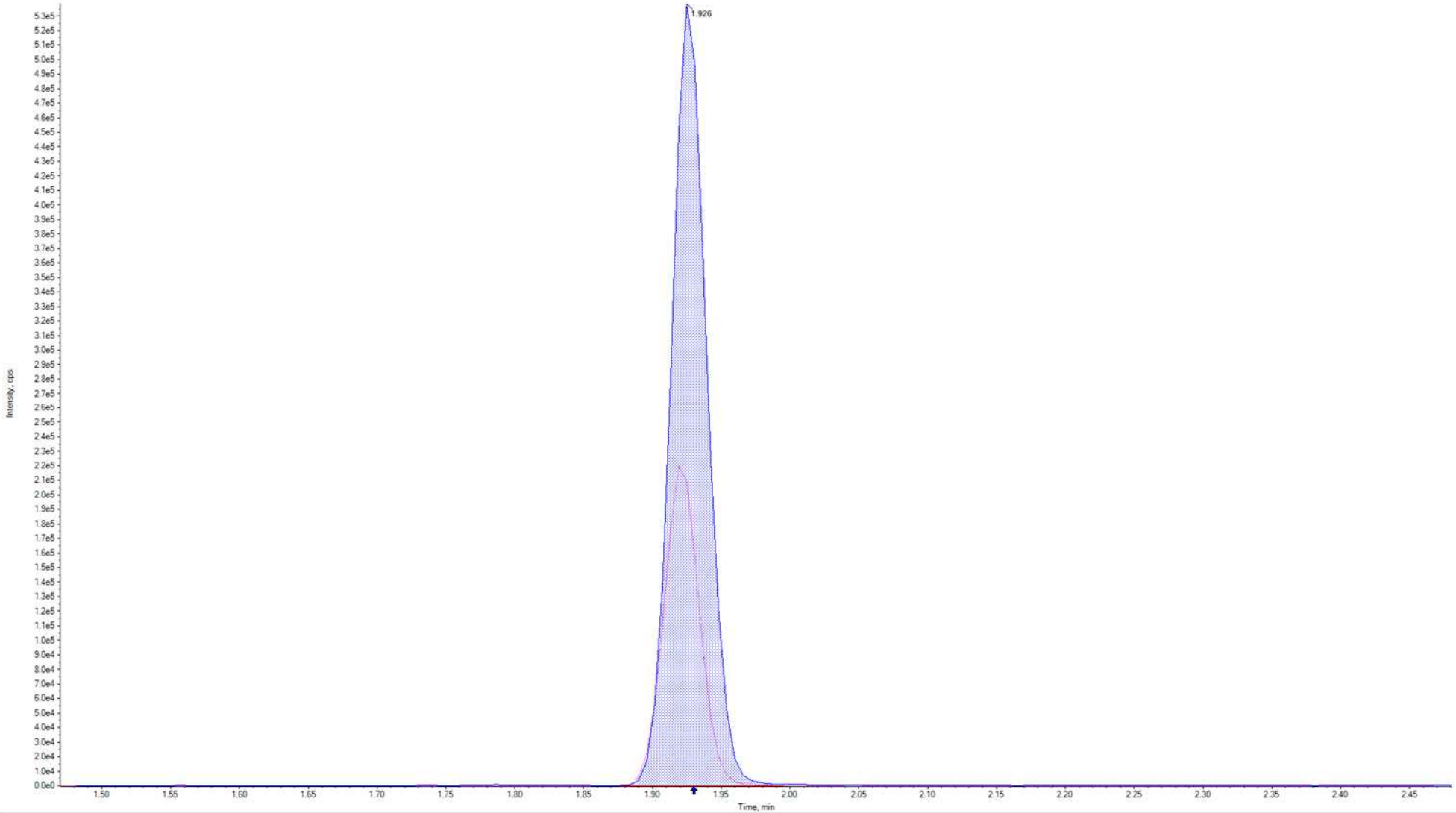
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PFPeA_2
Sample: WG2038851-7,1633FMED S/N:300.6 Points Across peak:37



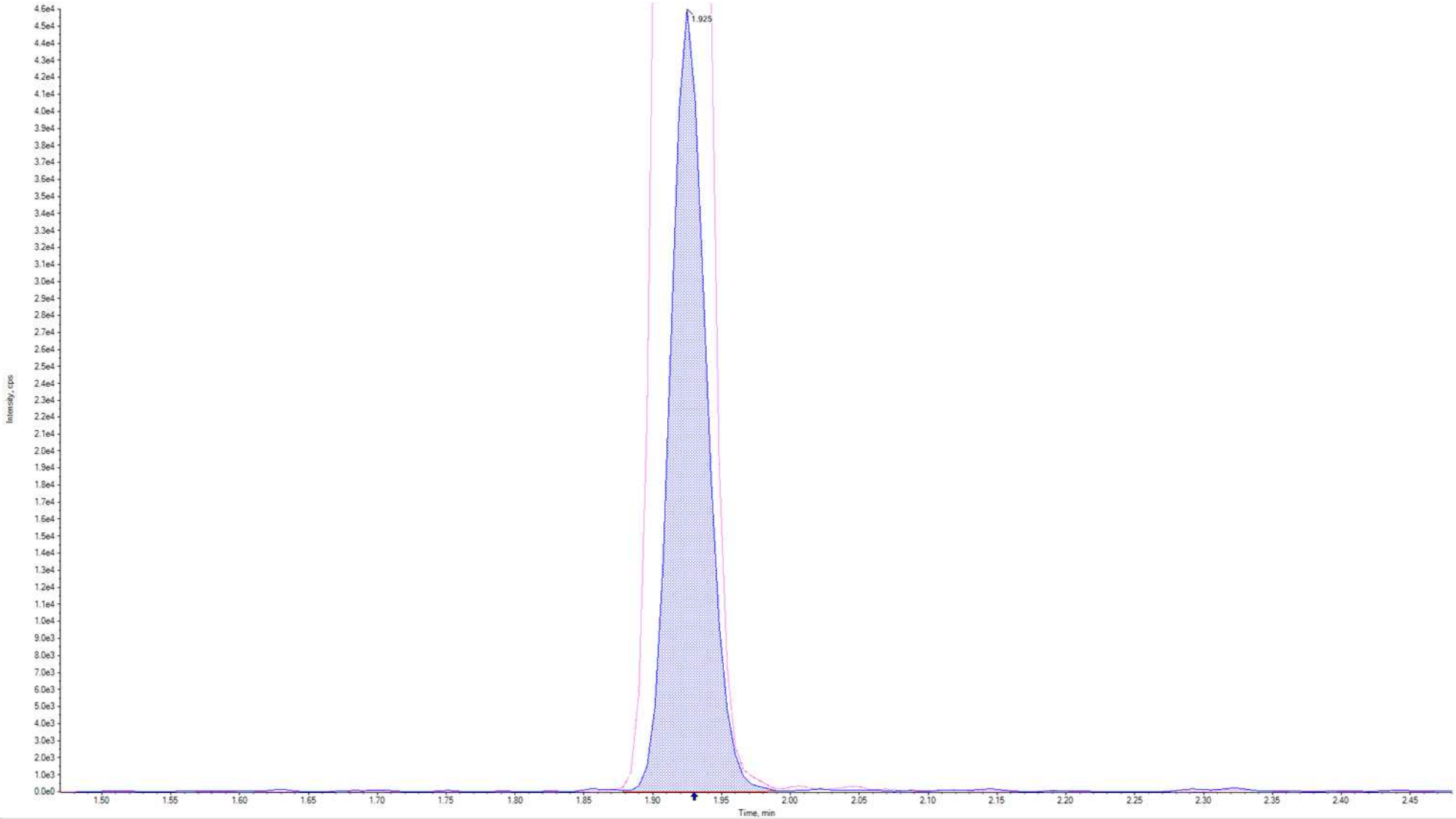
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PFHxA
Sample: WG2038851-7,1633FMED S/N:6073.9 Points Across peak:23



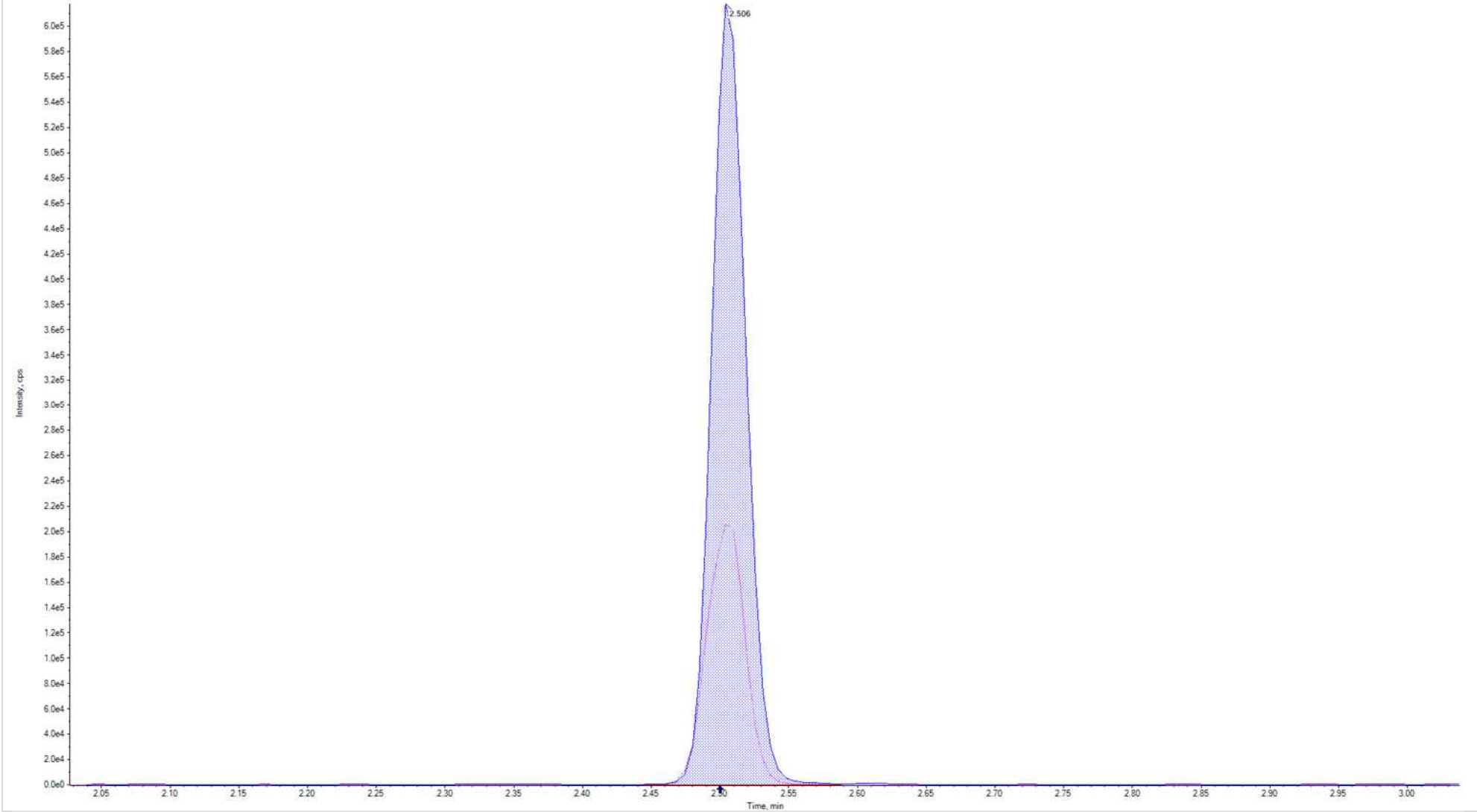
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PFHxA_2
Sample: WG2038851-7,1633FMED S/N:1152.7 Points Across peak:21



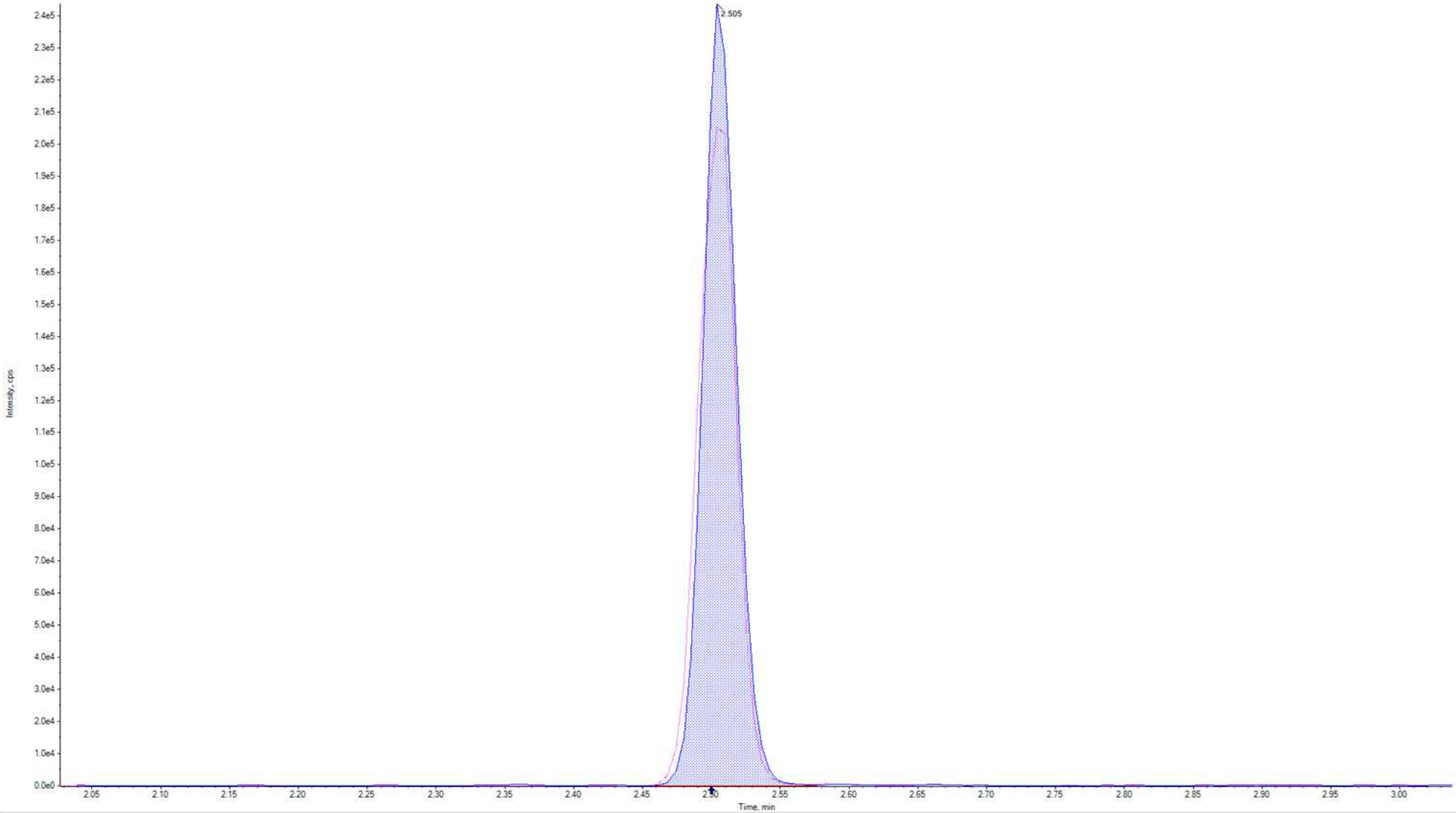
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PFHpA
Sample: WG2038851-7,1633FMED S/N:5034.1 Points Across peak:28



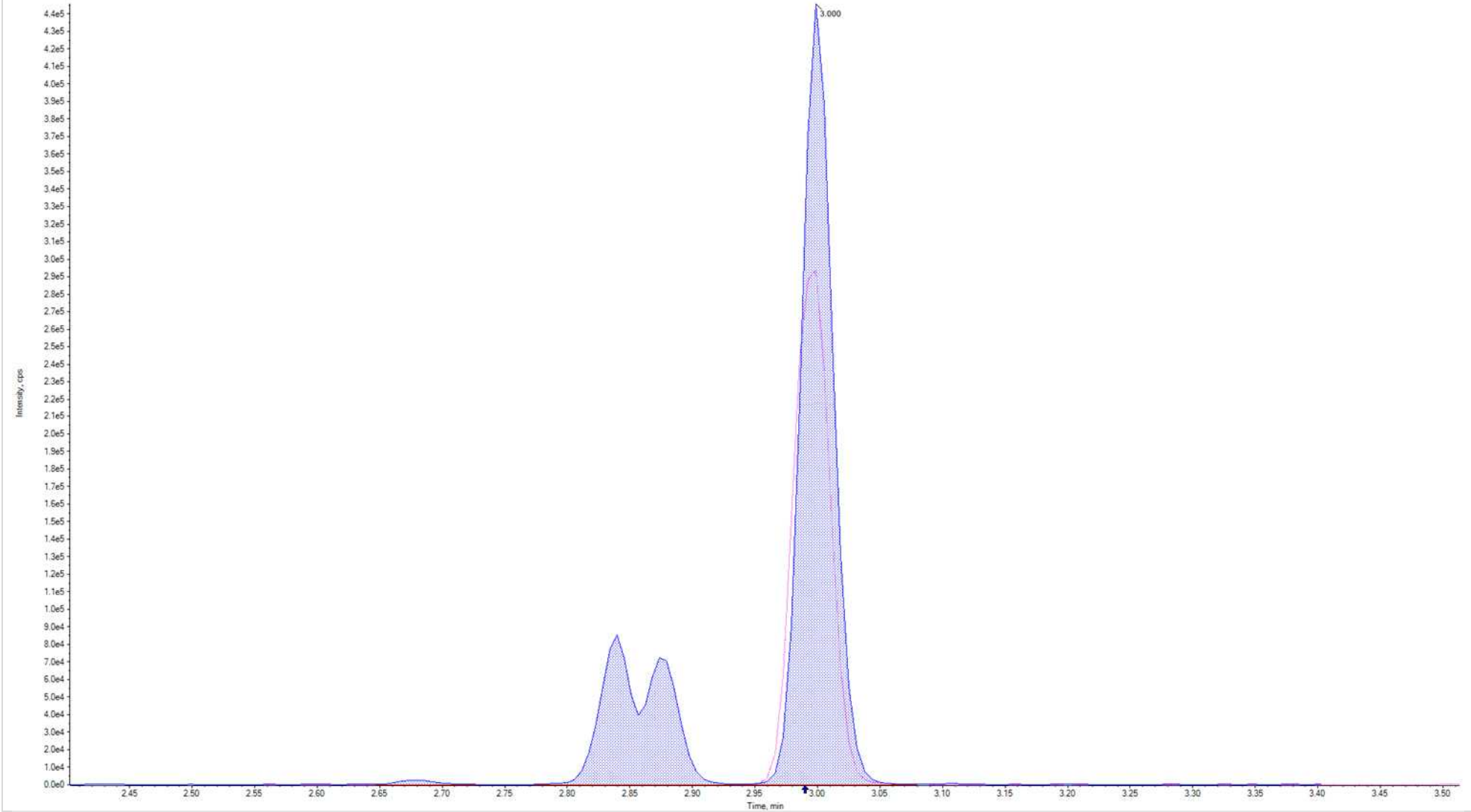
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PFHpA_2
Sample: WG2038851-7,1633FMED S/N:4884.4 Points Across peak:23



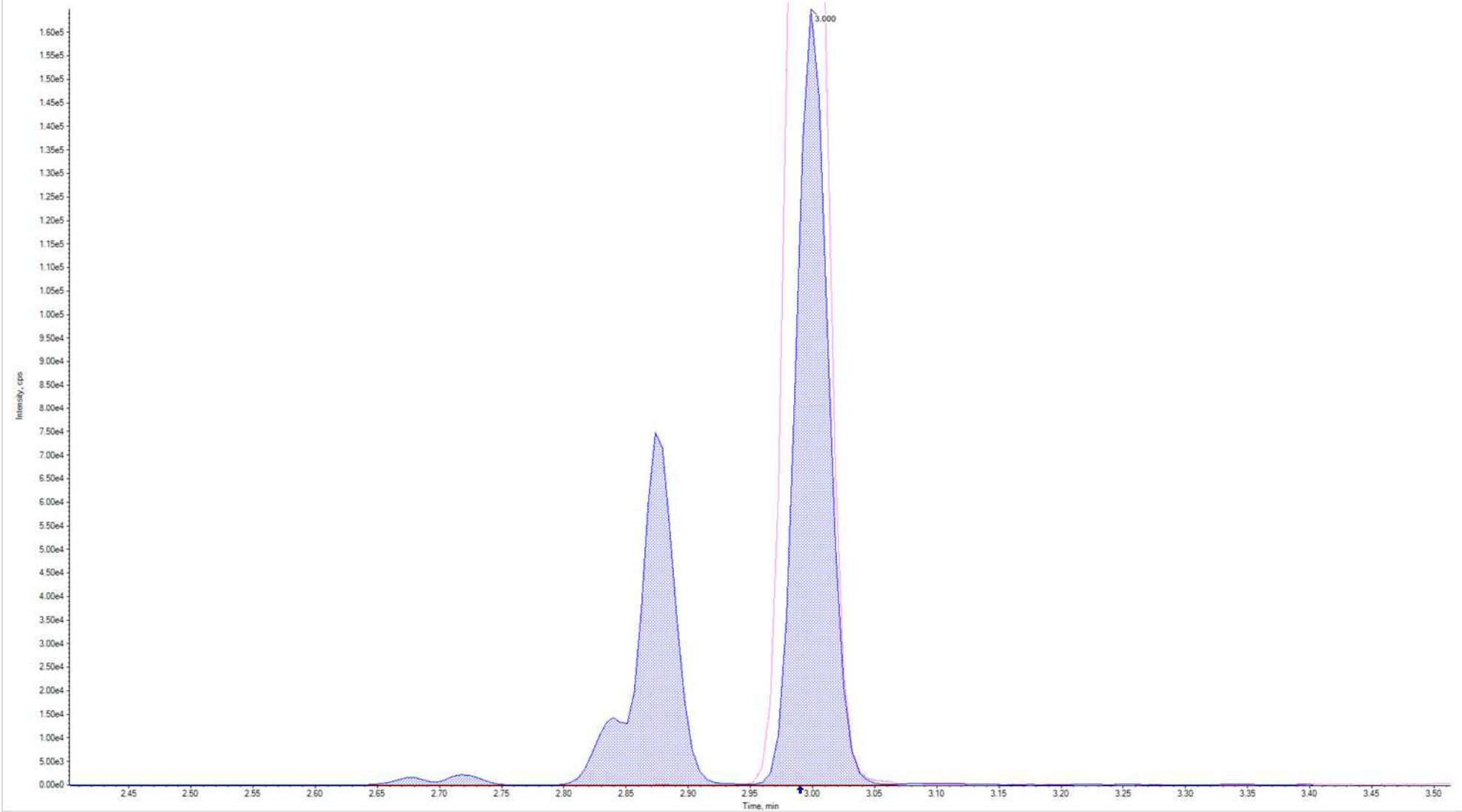
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PFOA
Sample: WG2038851-7,1633FMED S/N:780.0 Points Across peak:72



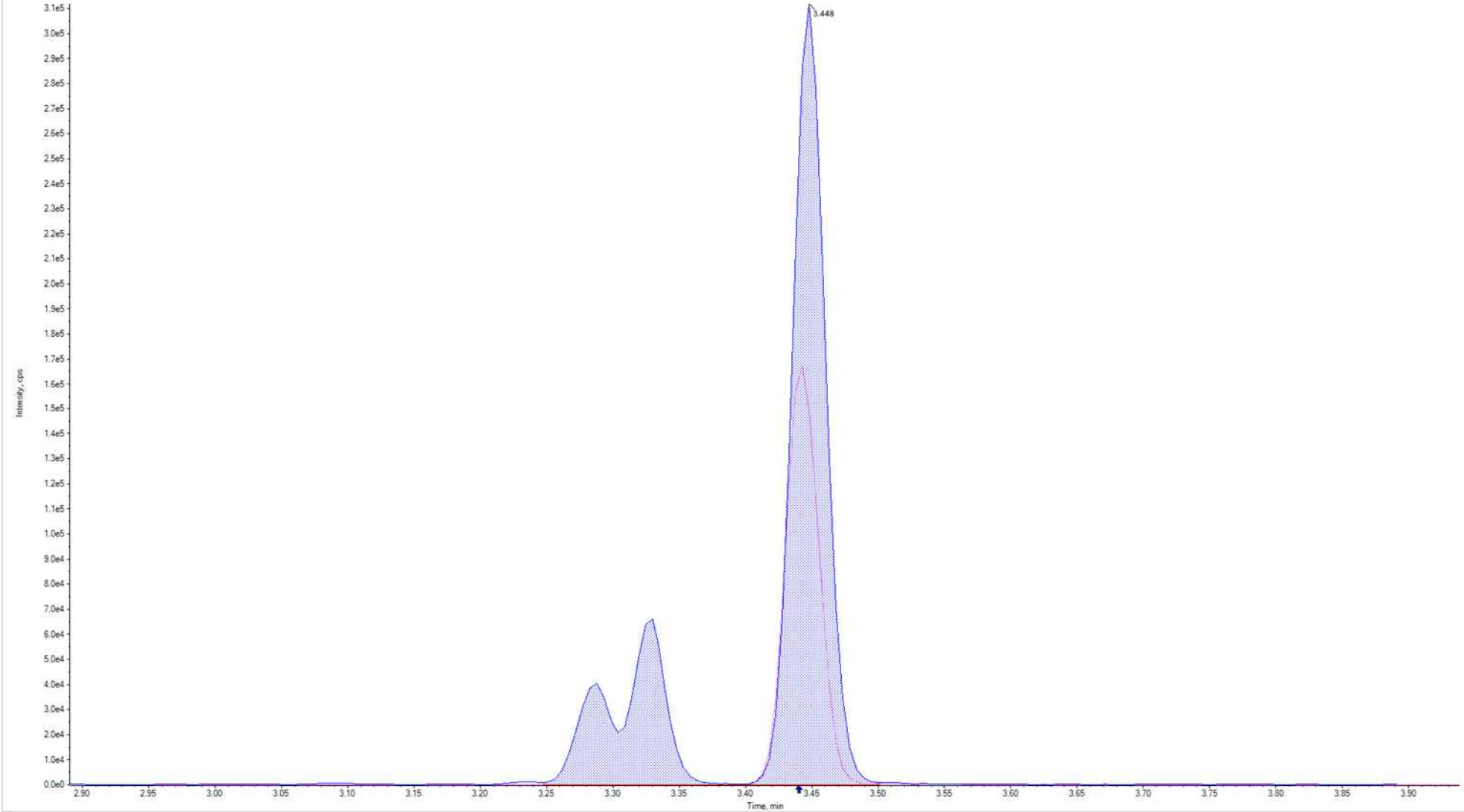
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PFOA_2
Sample: WG2038851-7,1633FMED S/N:529.3 Points Across peak:72



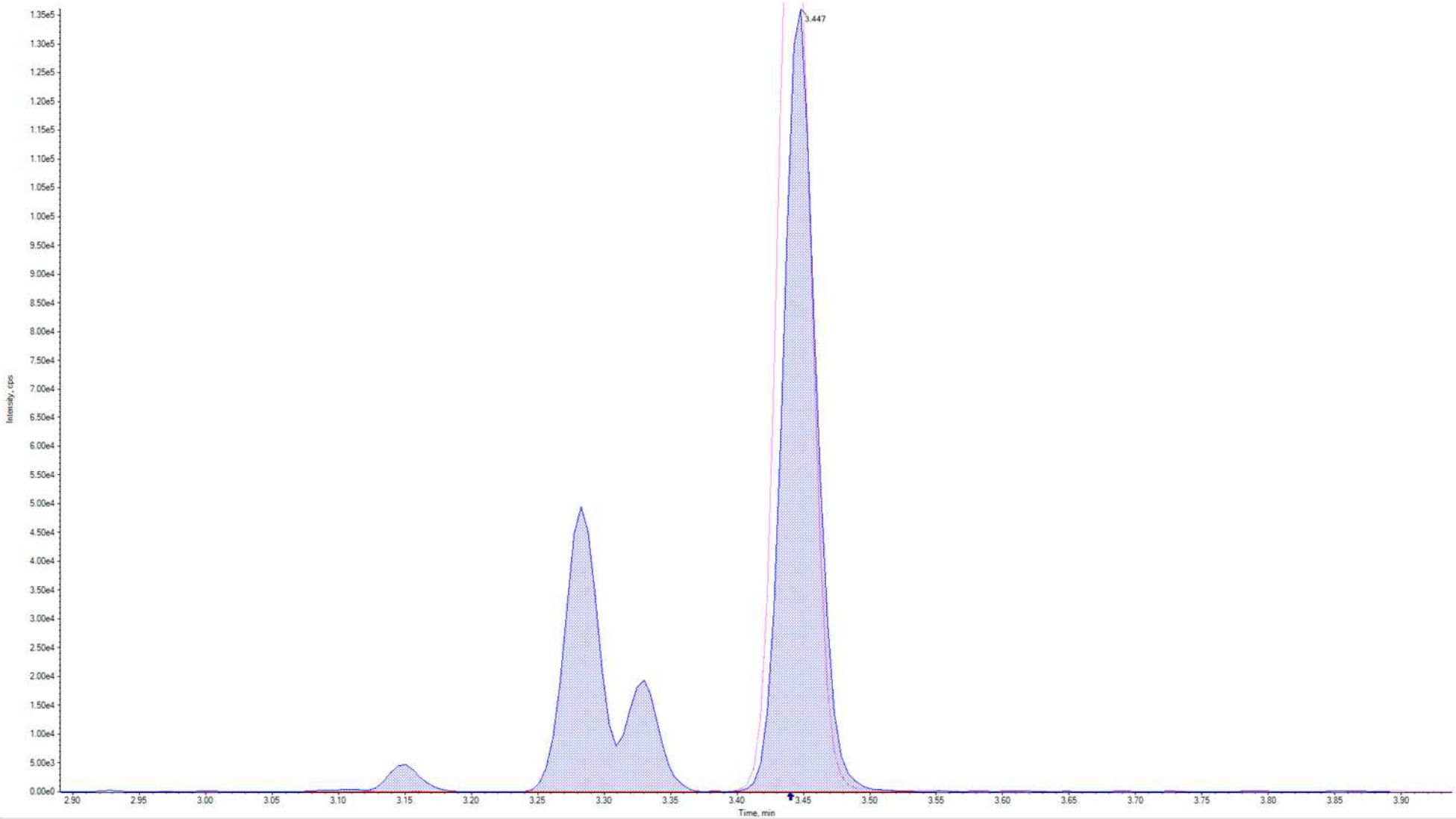
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PFNA
Sample: WG2038851-7,1633FMED S/N:627.7 Points Across peak:51



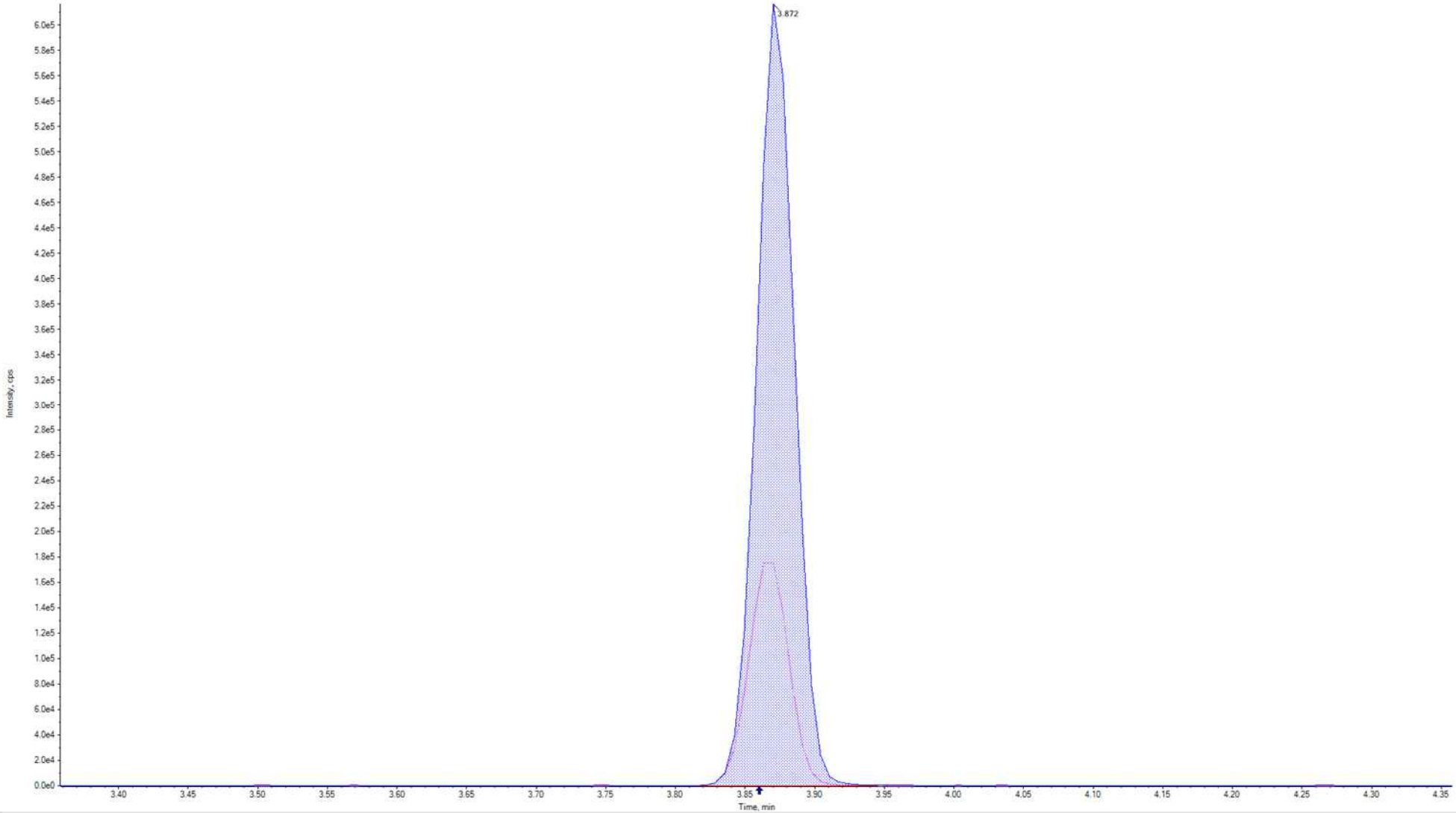
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PFNA_2
Sample: WG2038851-7,1633FMED S/N:460.4 Points Across peak:90



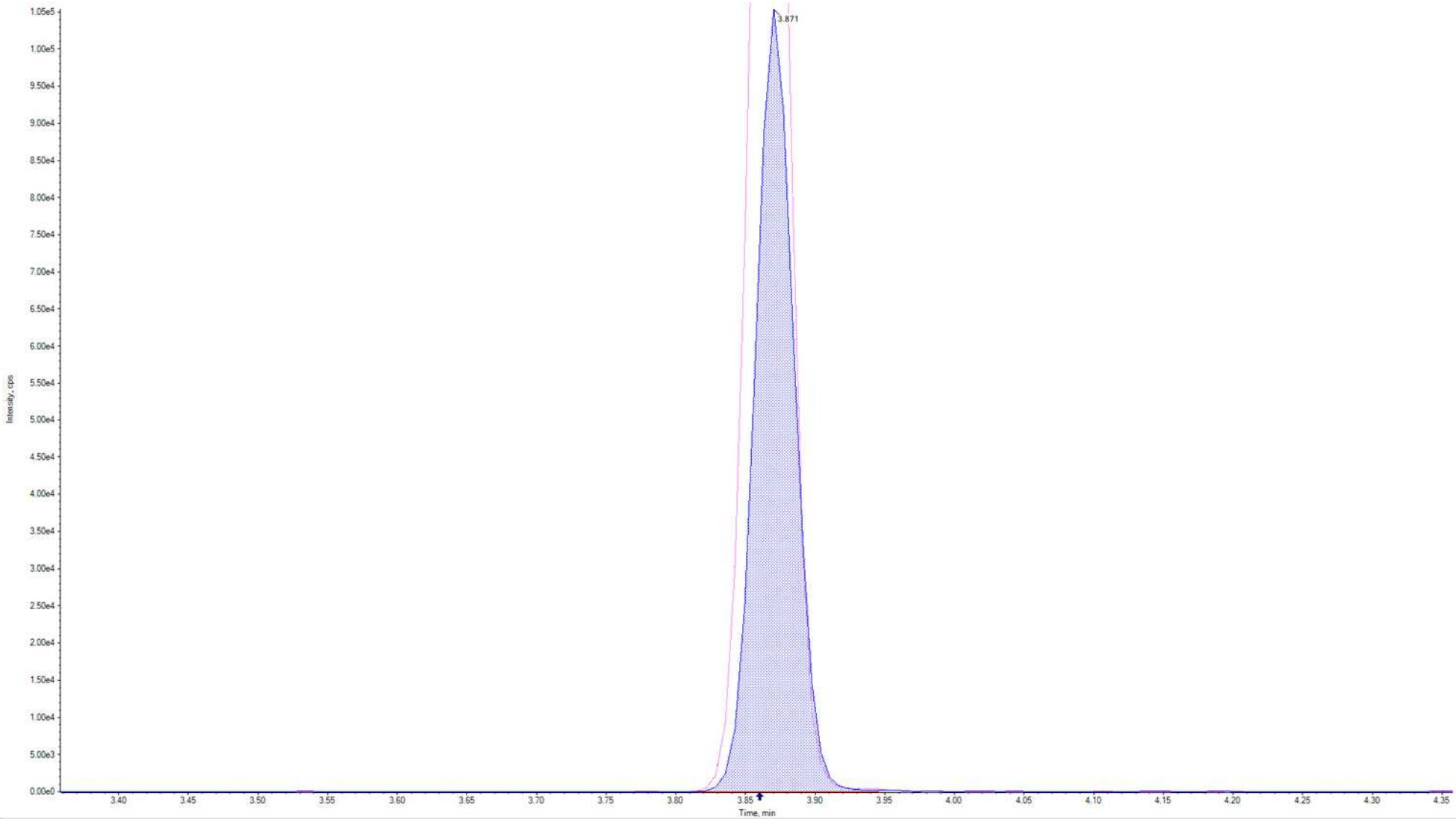
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PFDA
Sample: WG2038851-7,1633FMED S/N:12366.1 Points Across peak:23



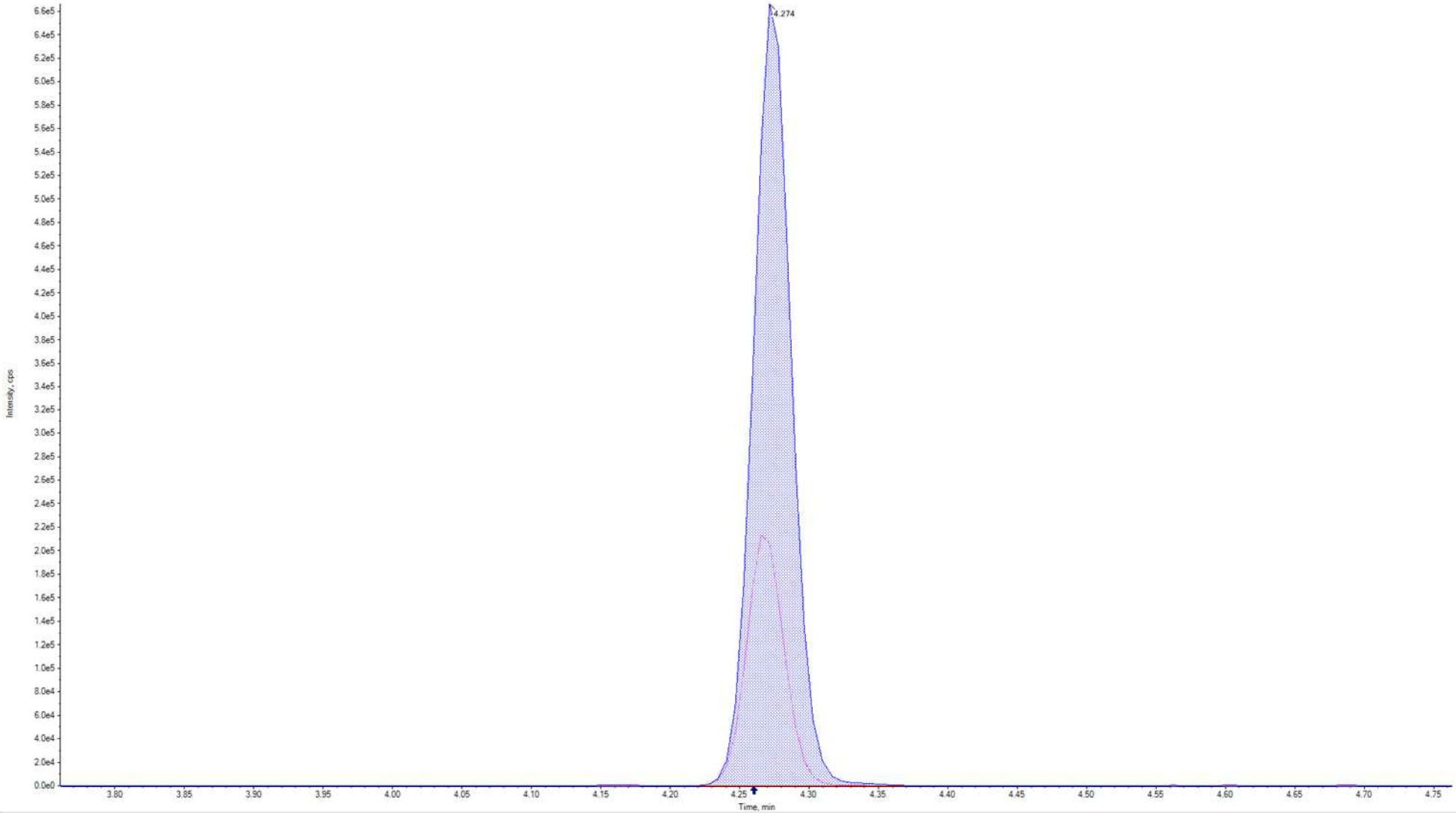
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PFDA_2
Sample: WG2038851-7,1633FMED S/N:2112.9 Points Across peak:23



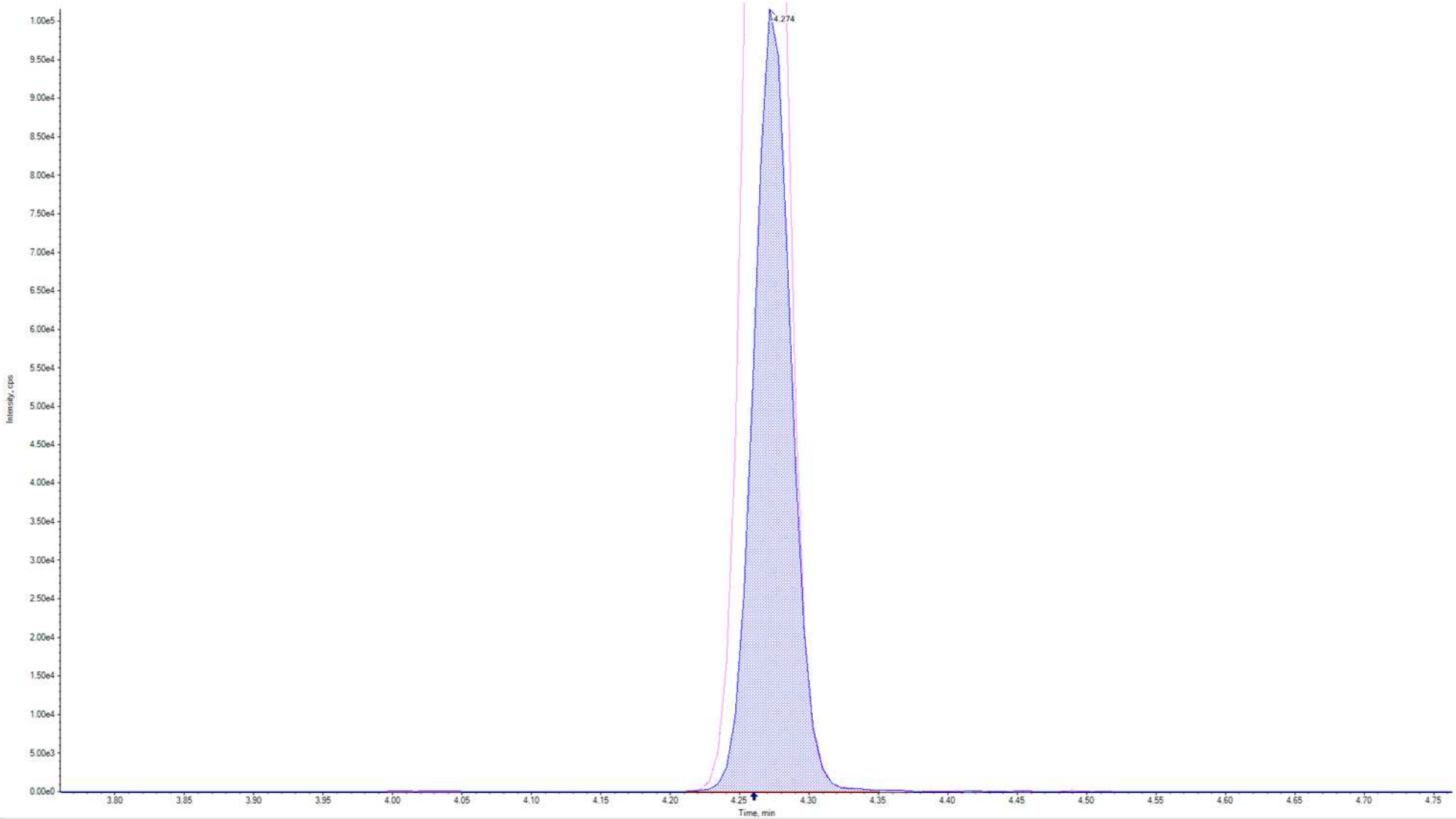
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PFUnA
Sample: WG2038851-7,1633FMED S/N:15027.6 Points Across peak:26



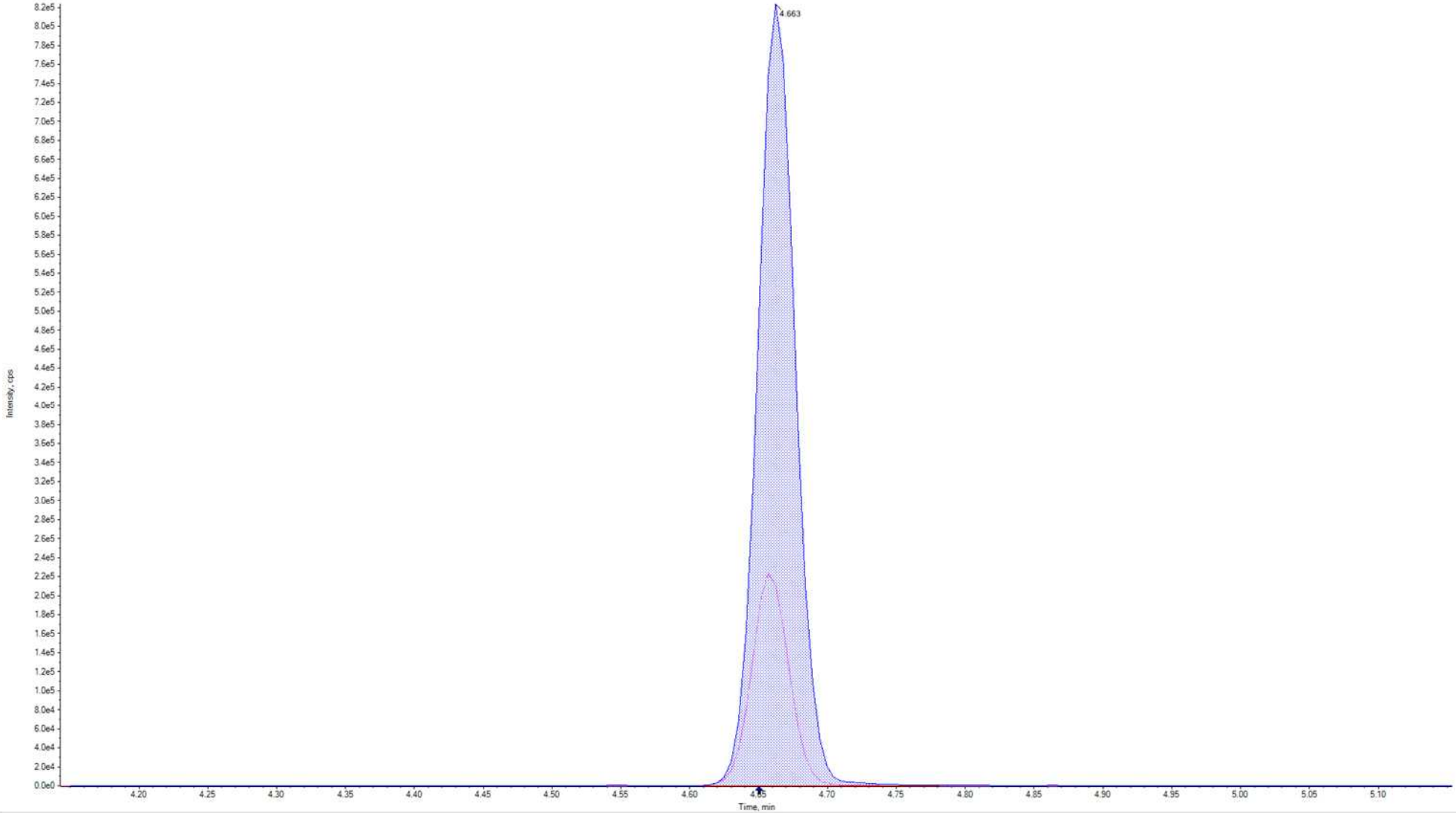
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PFUnA_2
Sample: WG2038851-7,1633FMED S/N:2290.9 Points Across peak:30



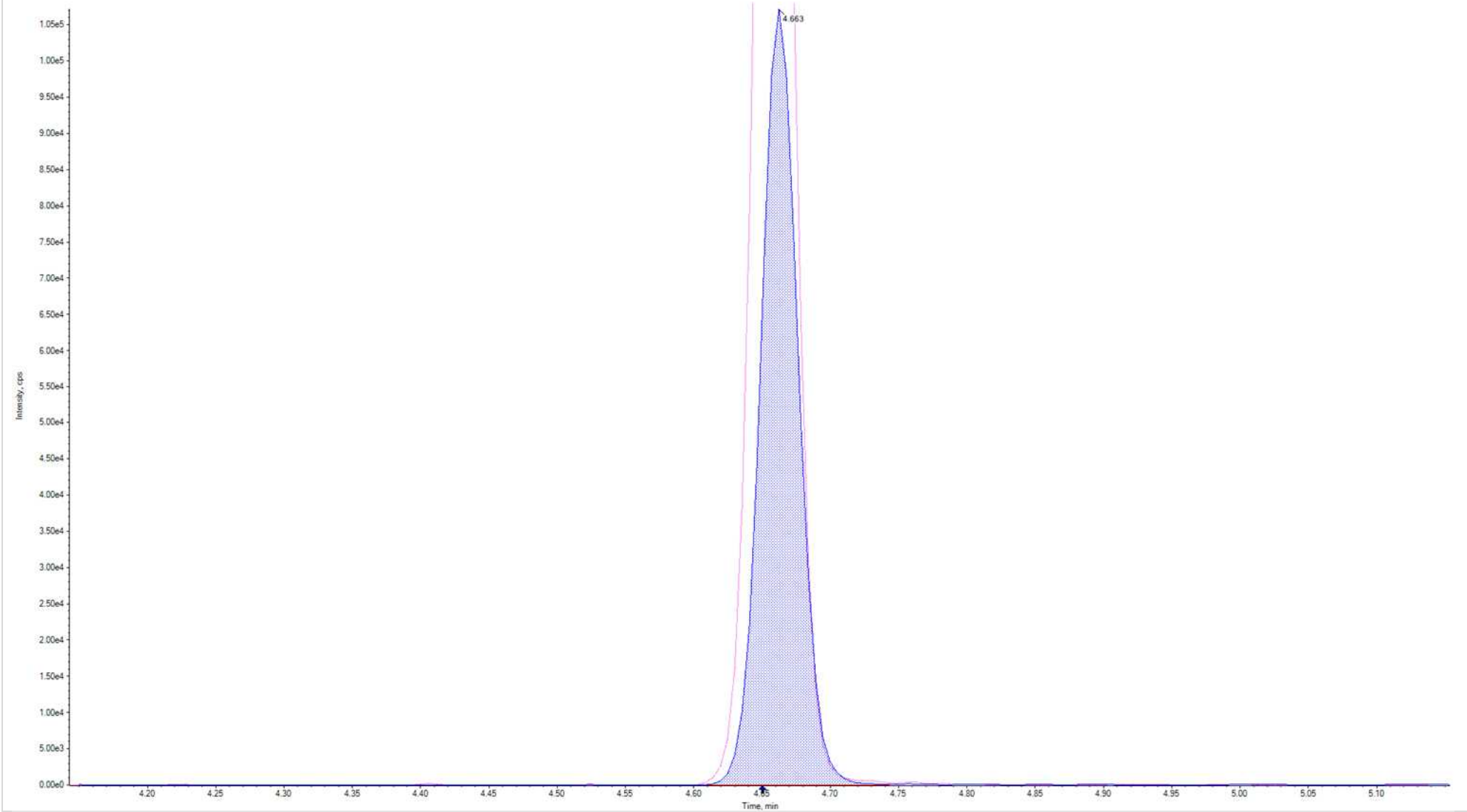
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PFDoA
Sample: WG2038851-7,1633FMED S/N:22709.1 Points Across peak:35



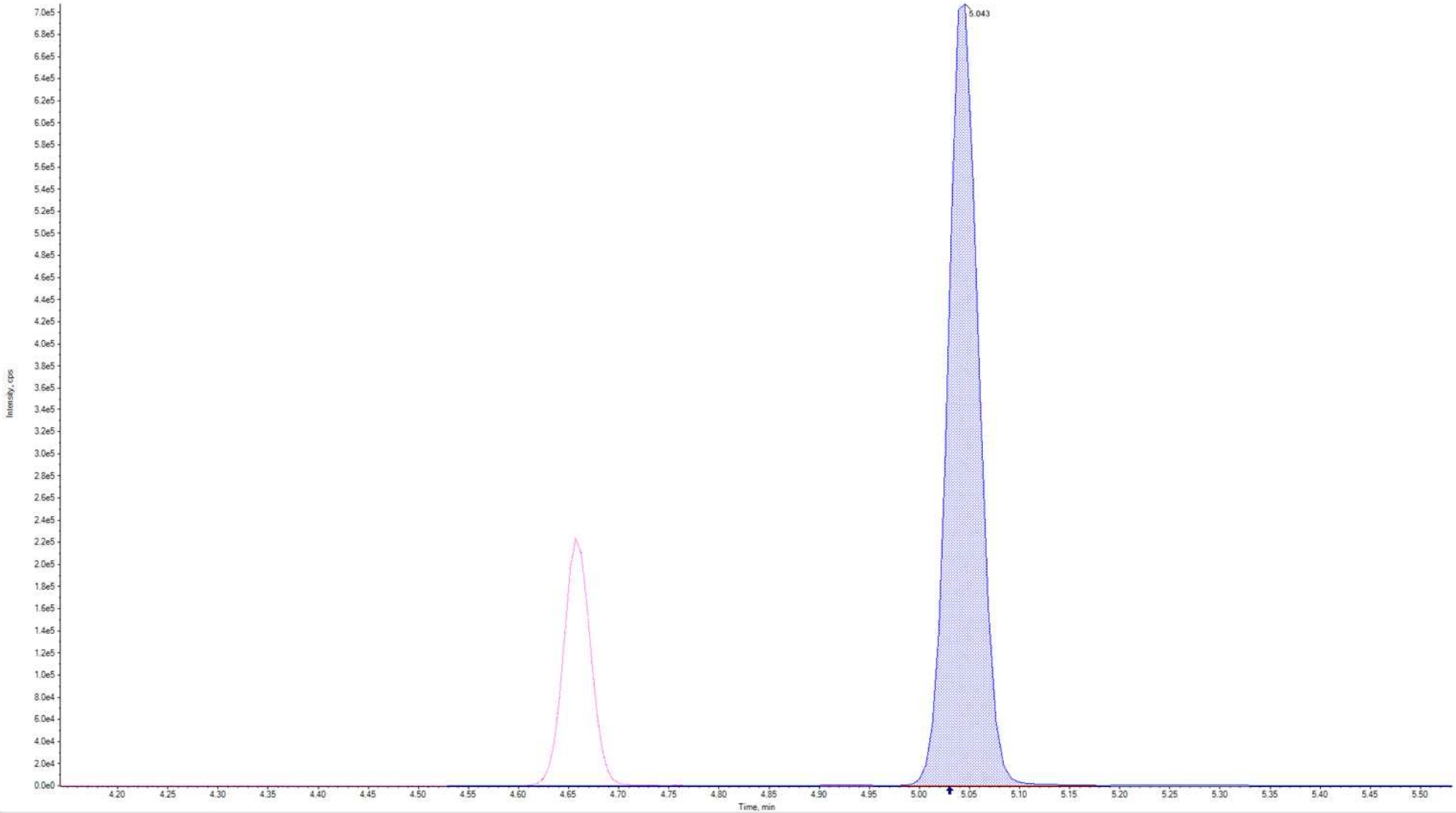
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PFDoA_2
Sample: WG2038851-7,1633FMED S/N:2953.3 Points Across peak:30



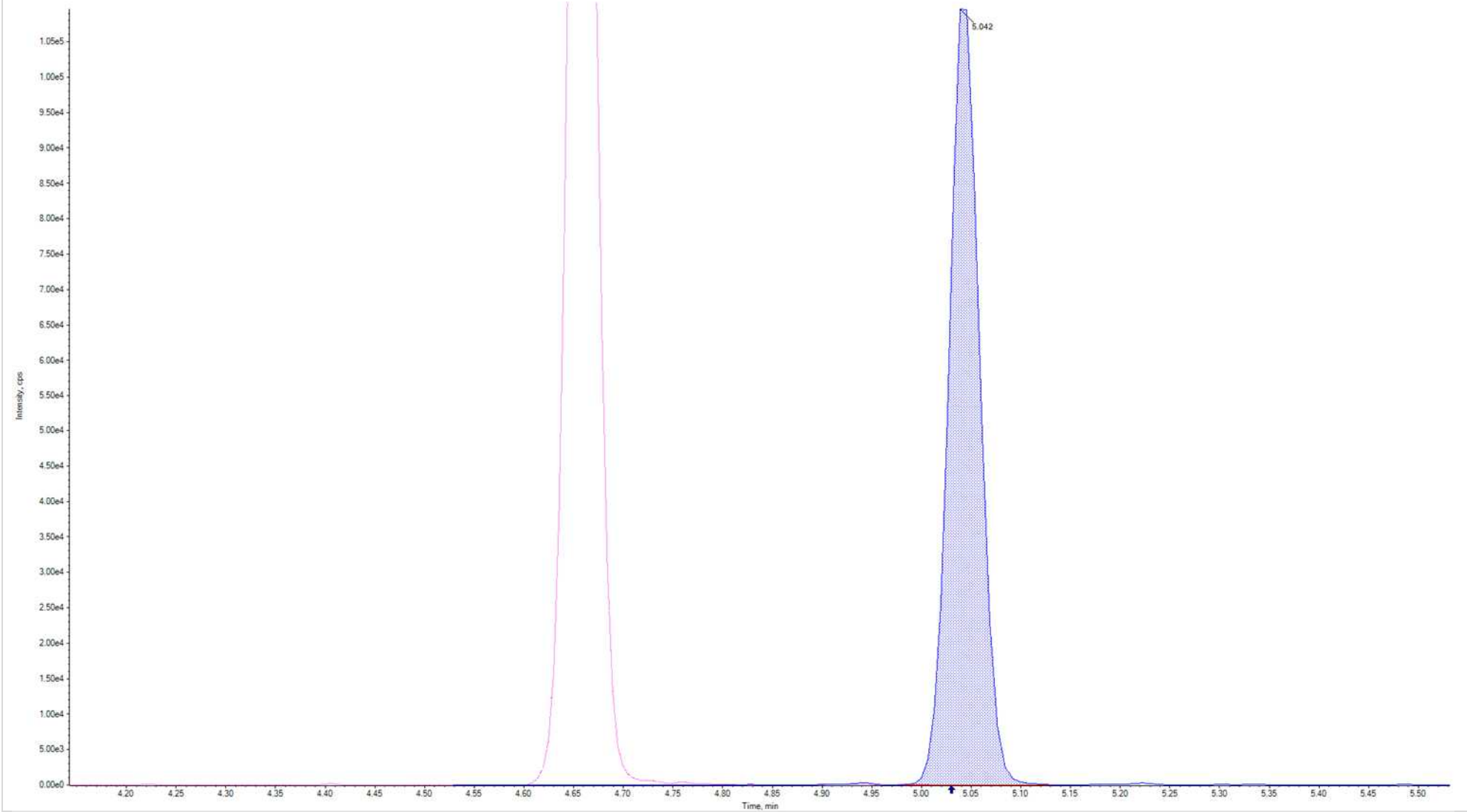
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PFTrDA
Sample: WG2038851-7,1633FMED S/N:9105.5 Points Across peak:31



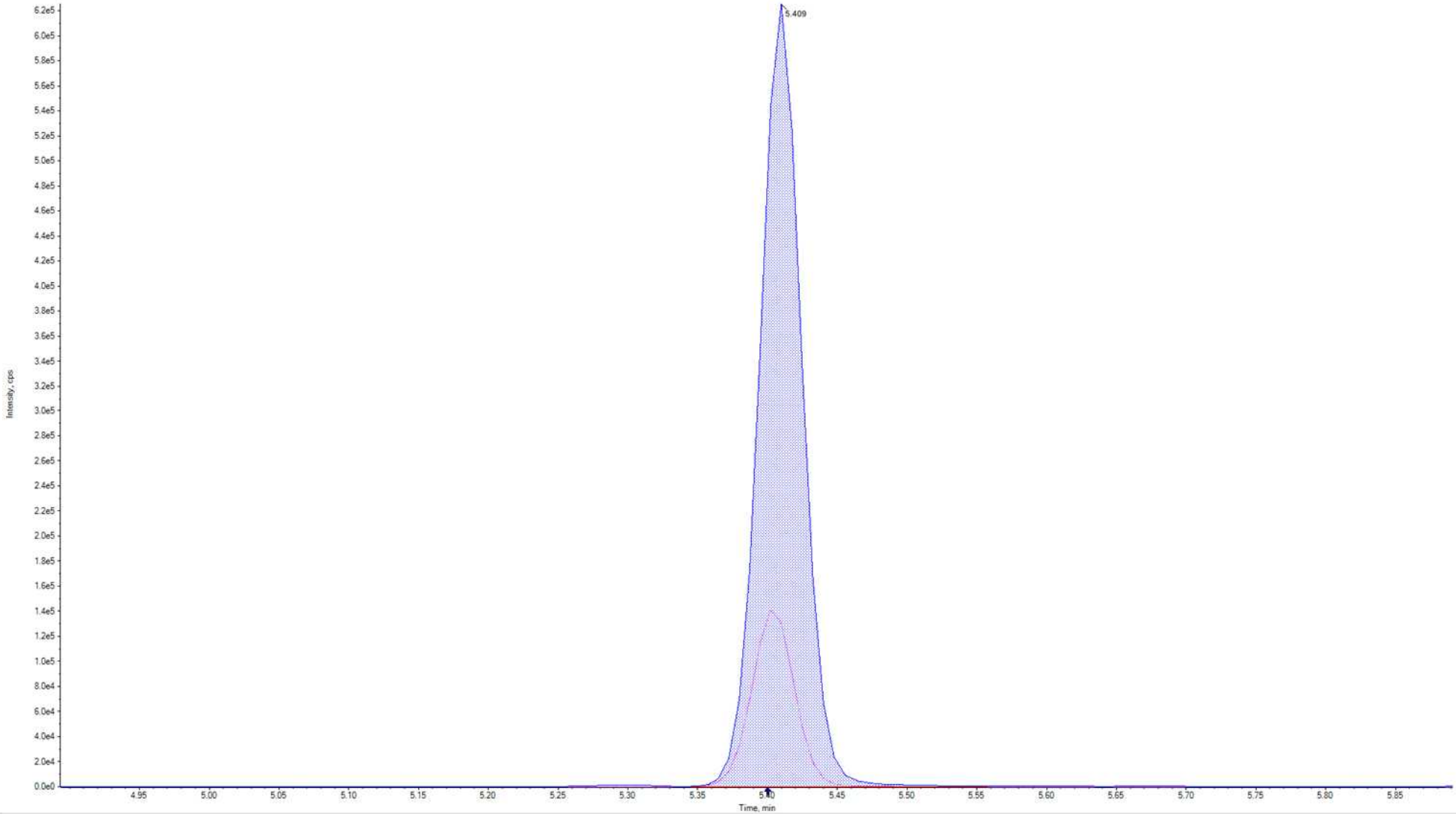
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PFTrDA_2
Sample: WG2038851-7,1633FMED S/N:4395.5 Points Across peak:27



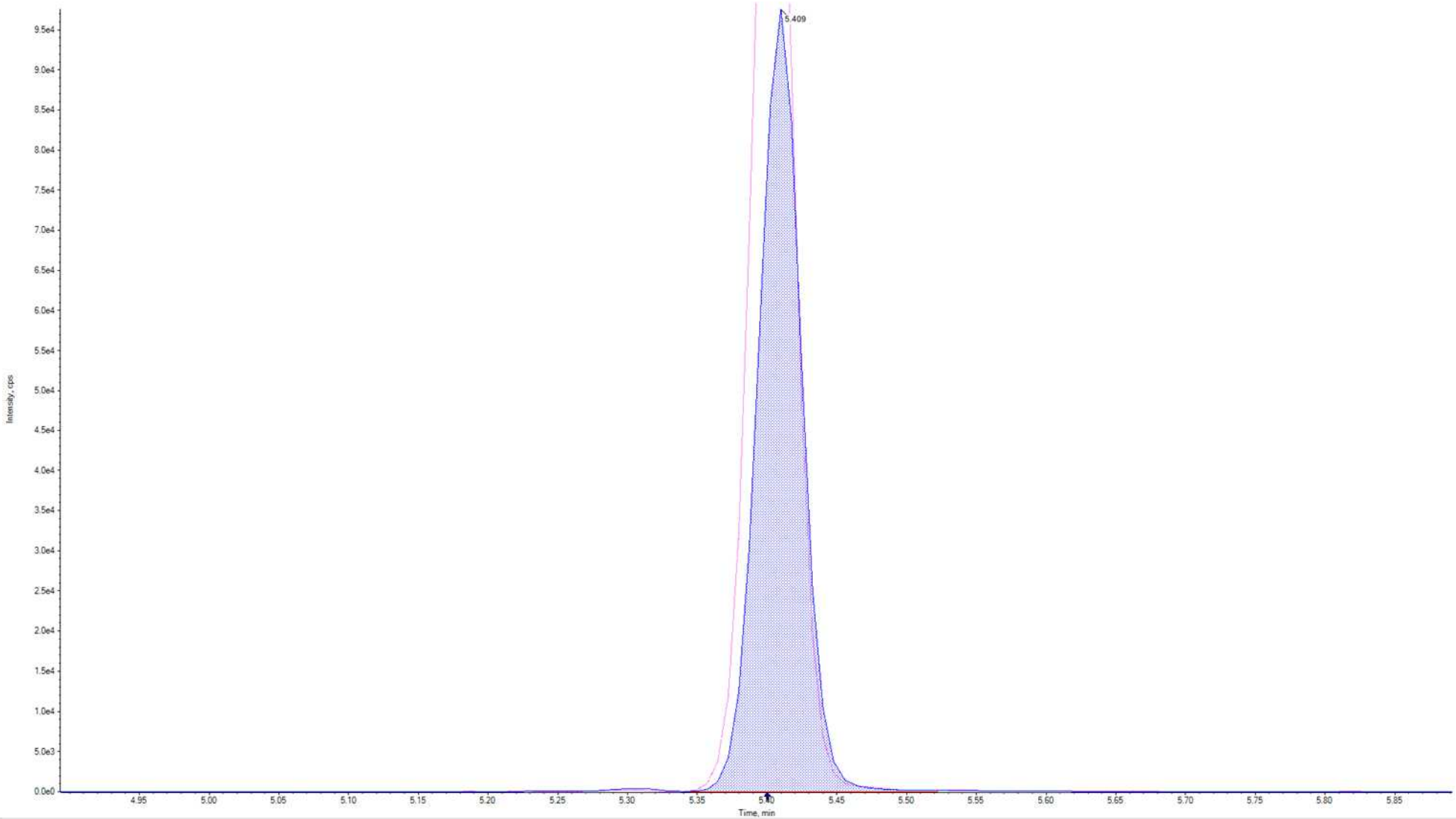
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PFTeDA
Sample: WG2038851-7,1633FMED S/N:5578.2 Points Across peak:27



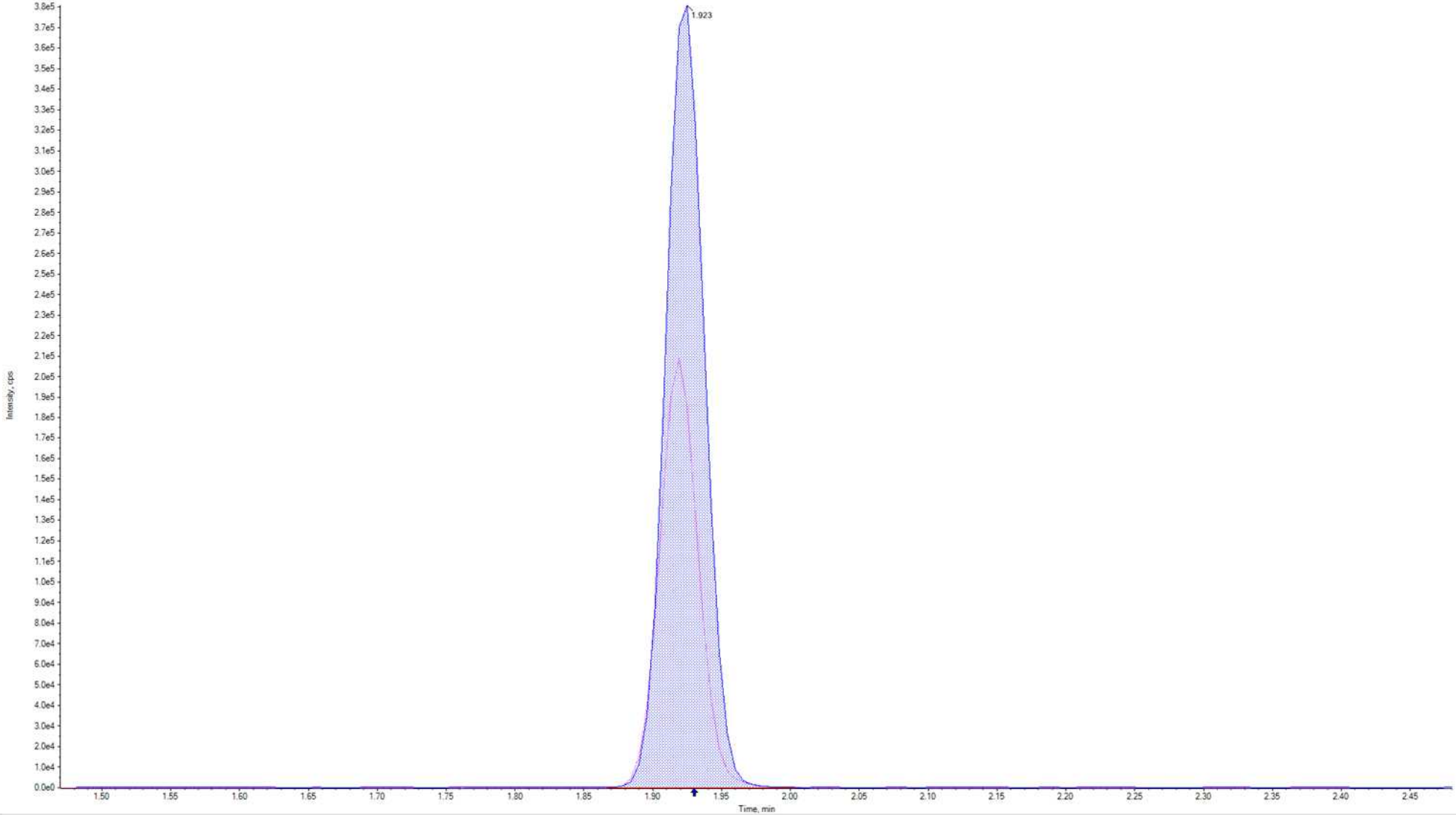
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PFTeDA_2
Sample: WG2038851-7,1633FMED S/N:2031.1 Points Across peak:23



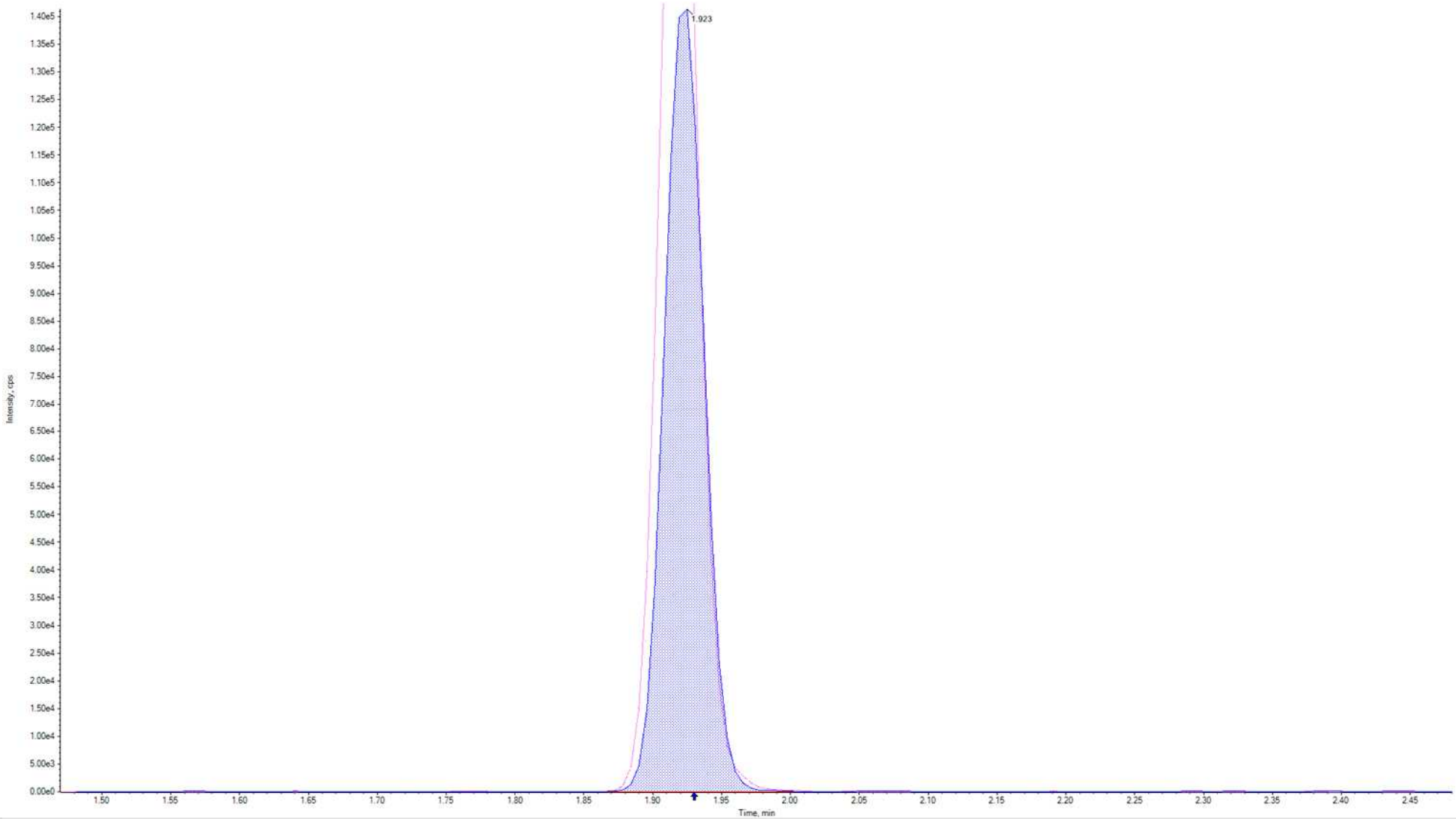
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PFBS
Sample: WG2038851-7,1633FMED S/N:6790.9 Points Across peak:25



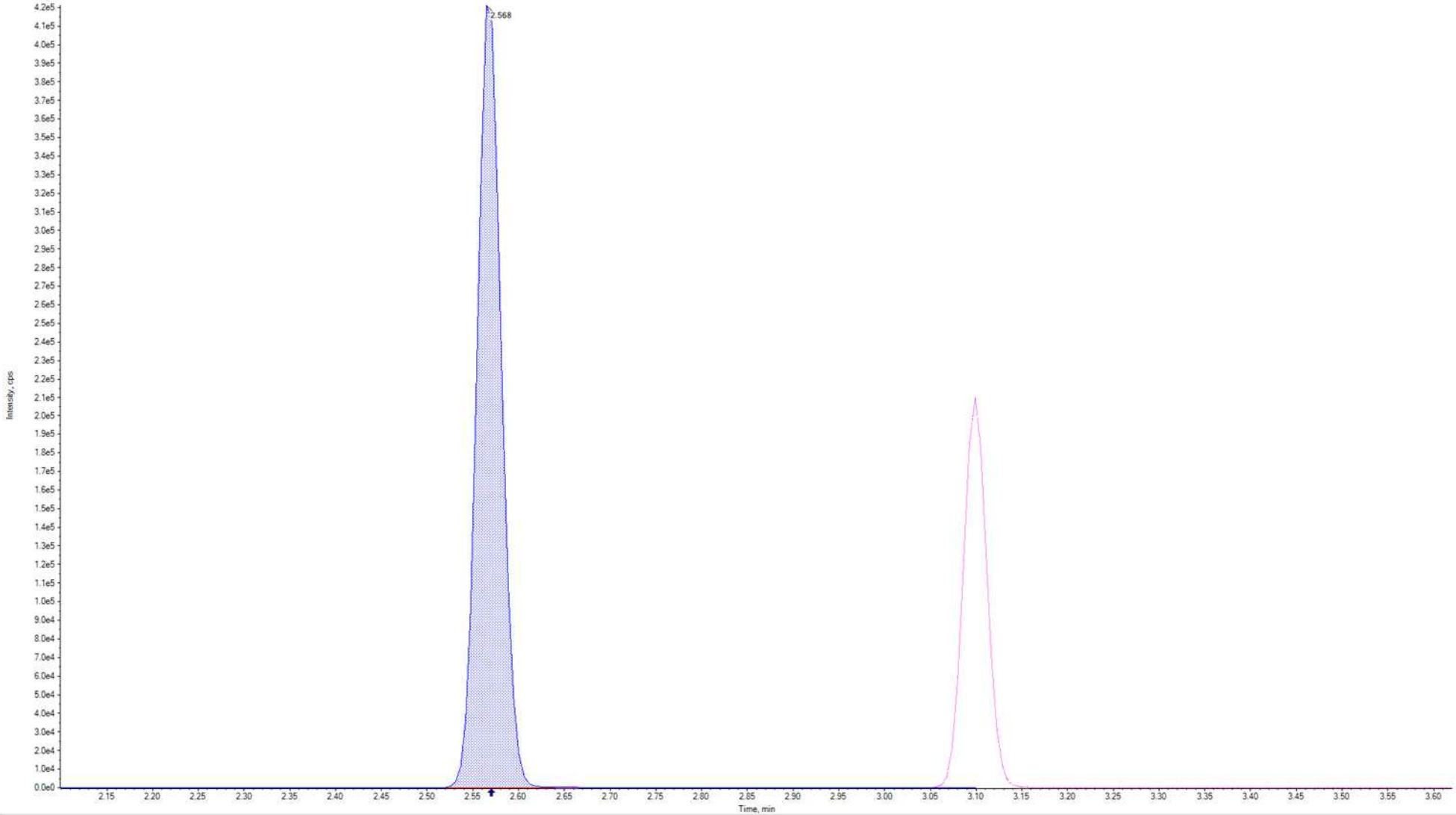
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PFBS_2
Sample: WG2038851-7,1633FMED S/N:3094.7 Points Across peak:30



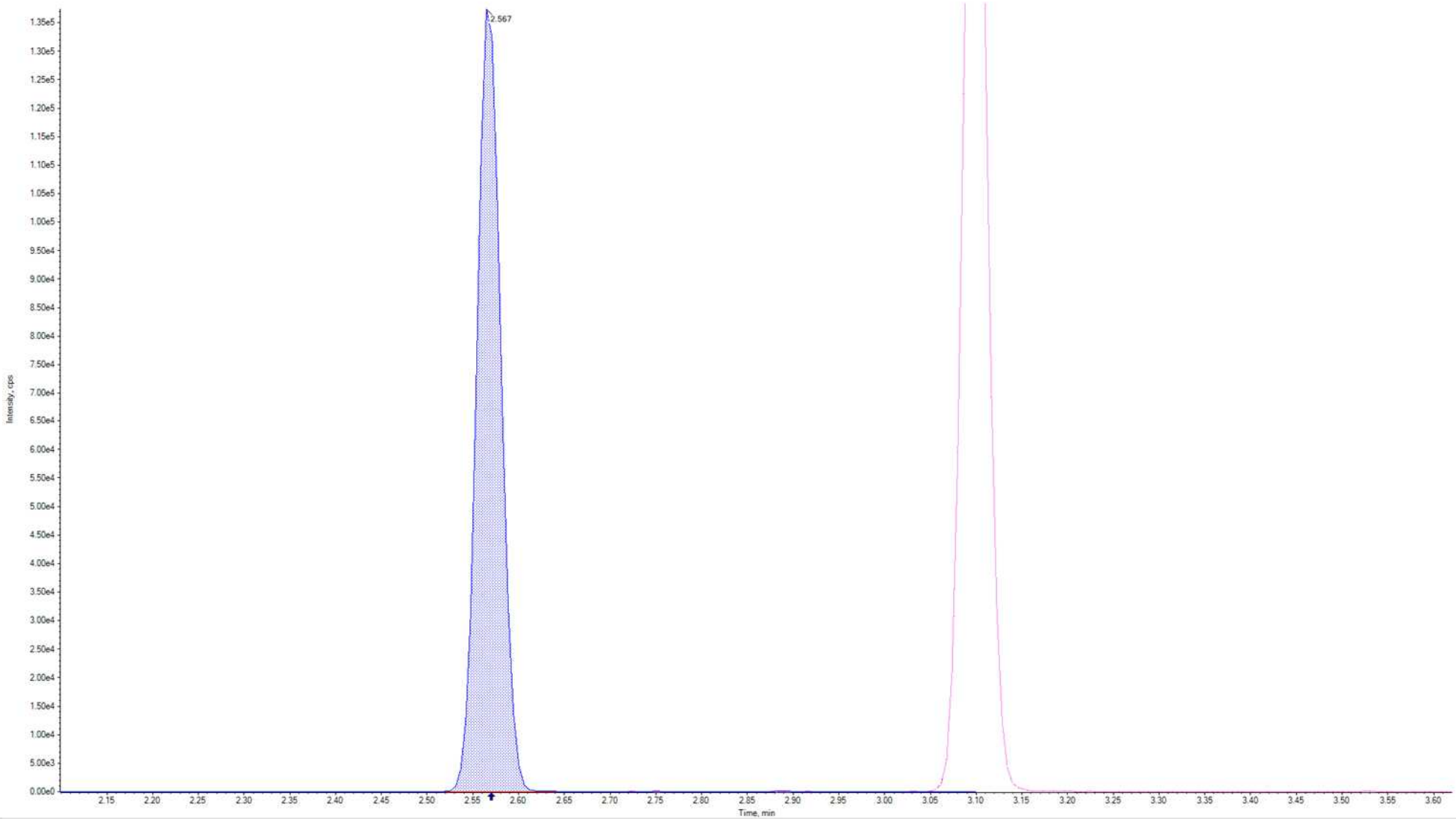
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PFPeS
Sample: WG2038851-7,1633FMED S/N:6688.4 Points Across peak:25



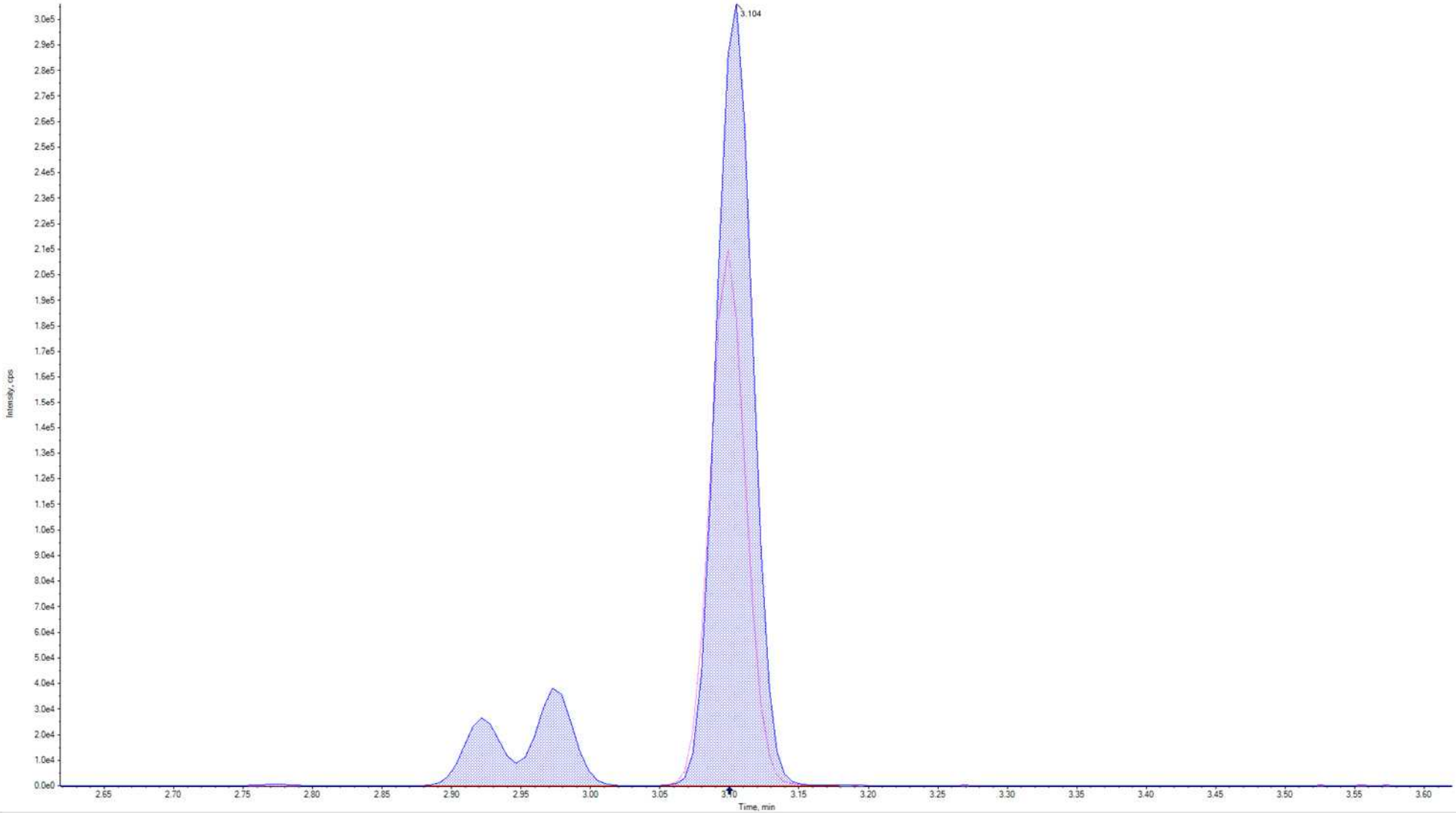
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PFPeS_2
Sample: WG2038851-7,1633FMED S/N:2754.7 Points Across peak:31



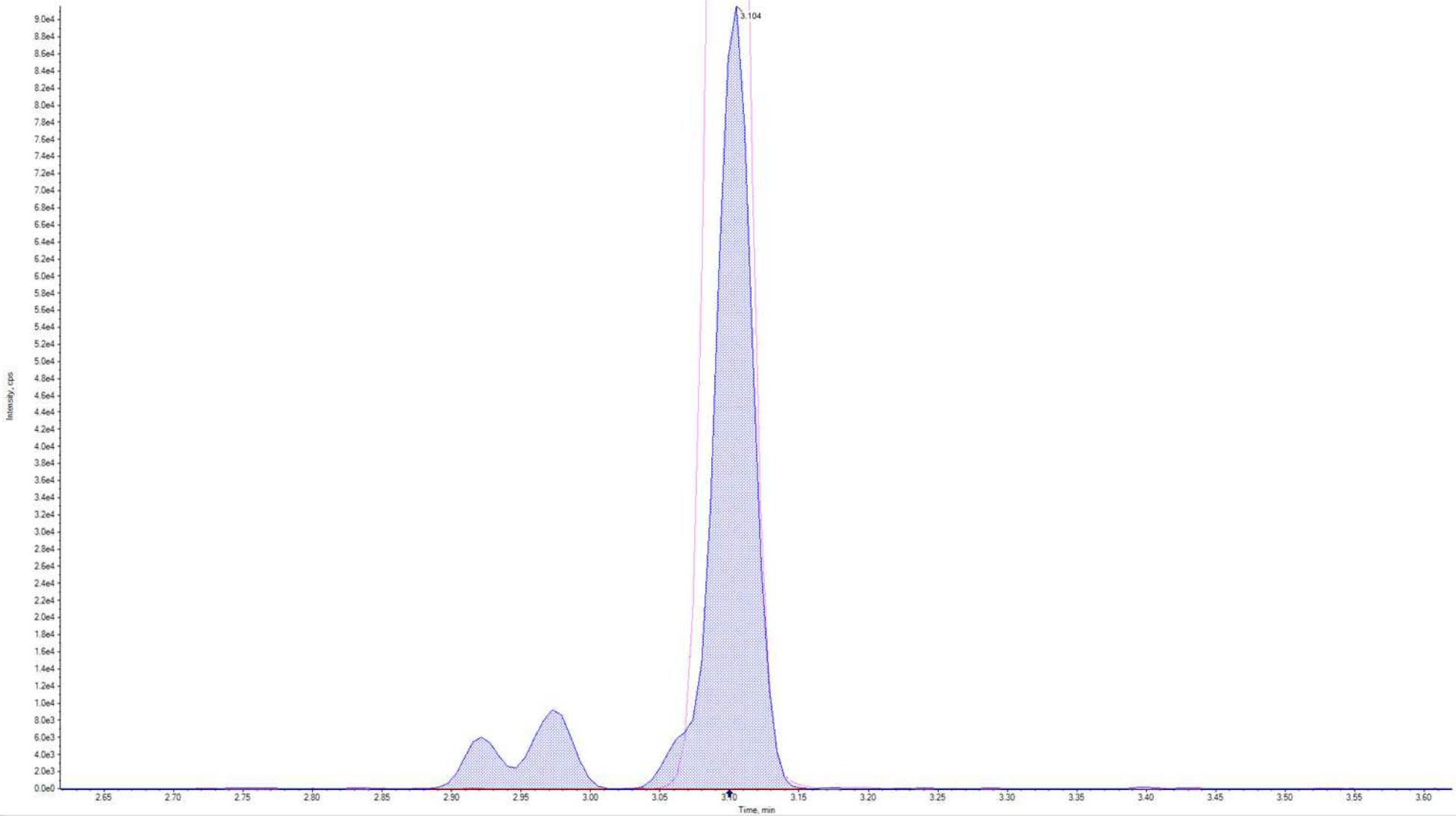
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Last Altered: 3/11/2025 2:07:22 PM
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PFHxS
Sample: WG2038851-7,1633FMED S/N:1176.0 Points Across peak:53



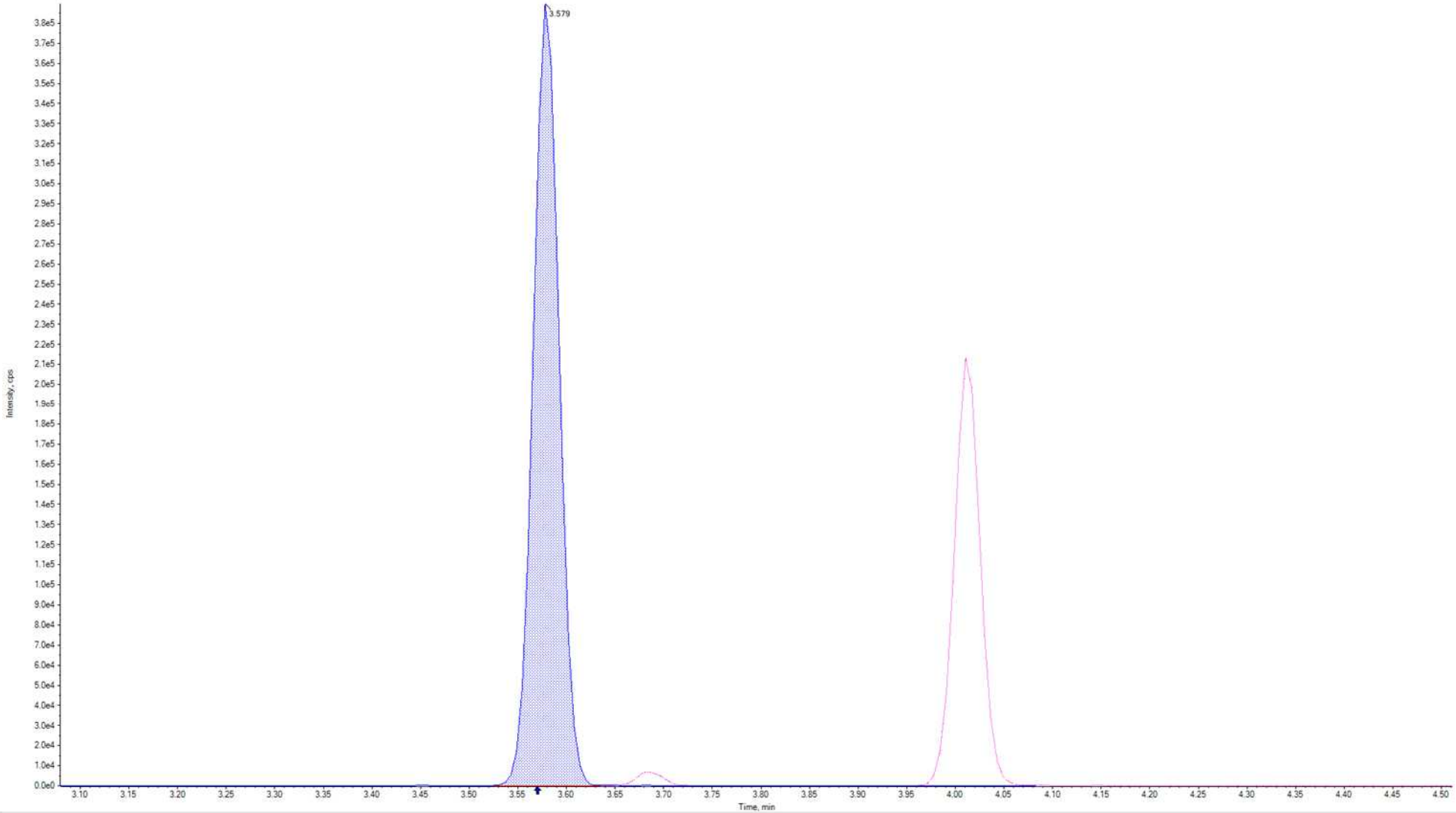
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PFHxS_2
Sample: WG2038851-7,1633FMED S/N:1158.3 Points Across peak:48



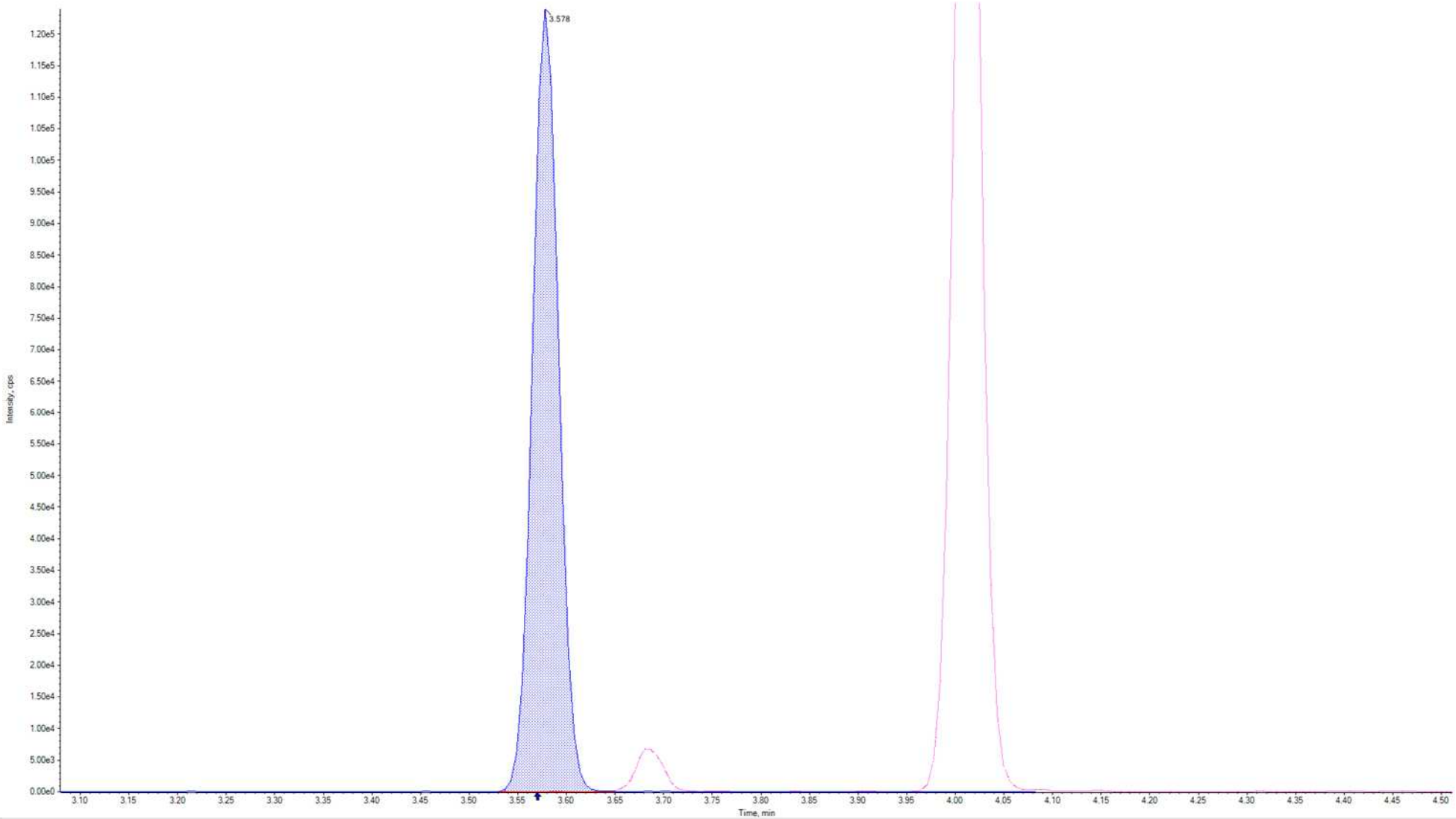
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PFHpS
Sample: WG2038851-7,1633FMED S/N:5111.5 Points Across peak:23



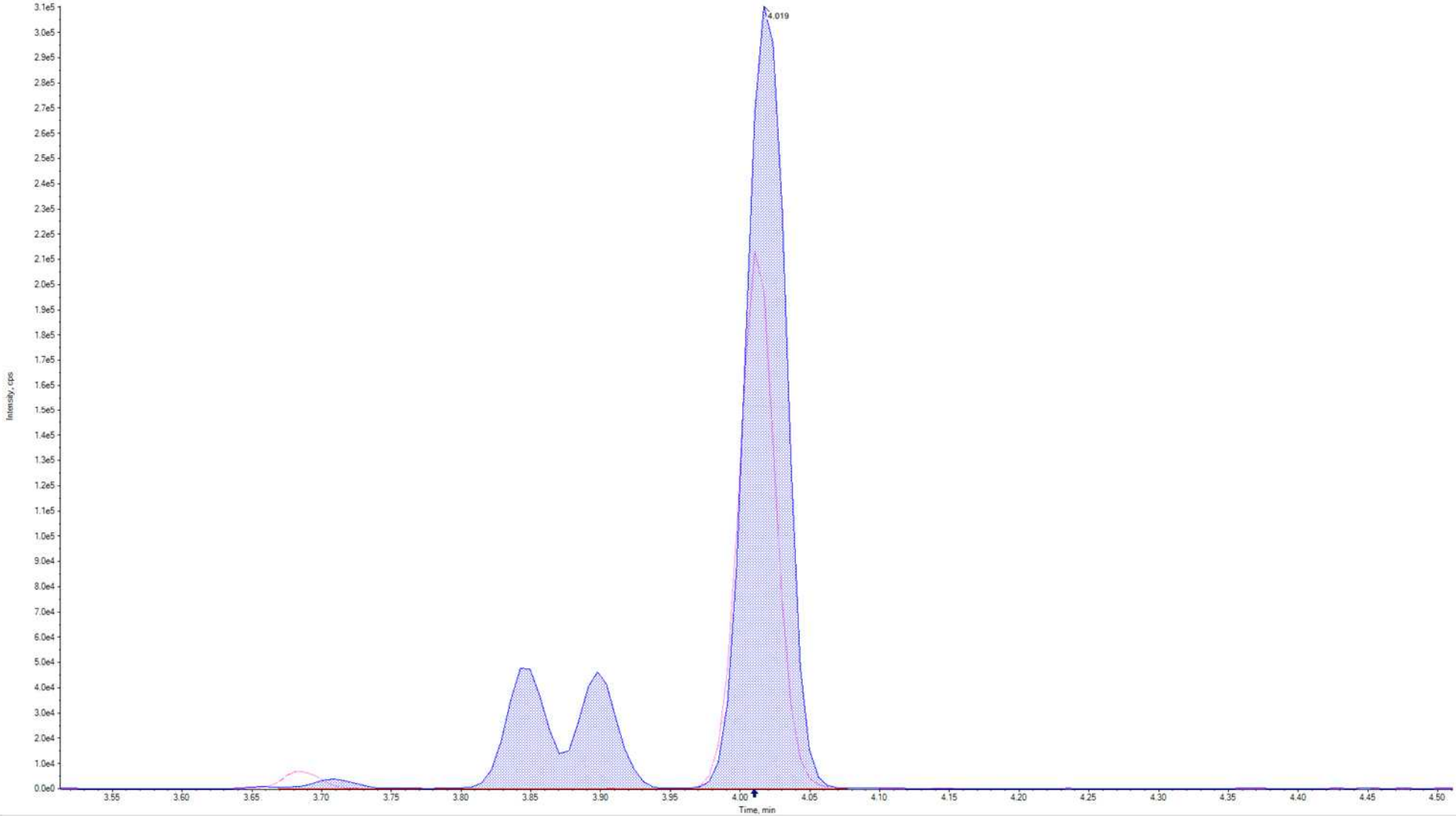
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Alpha Analytical LLC
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PFHpS_2
Sample: WG2038851-7,1633FMED S/N:2485.4 Points Across peak:27



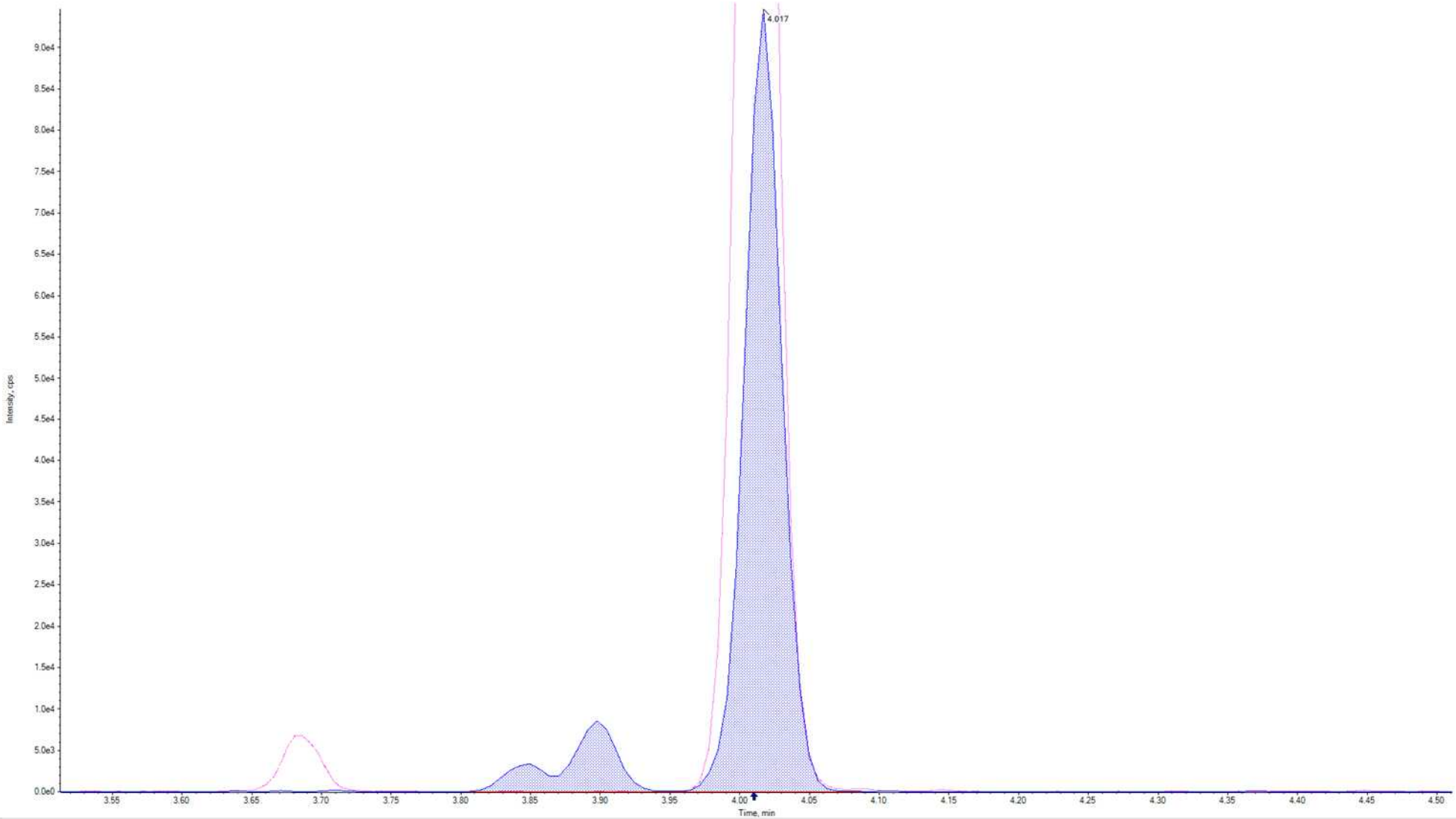
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Alpha Analytical LLC
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PFOS
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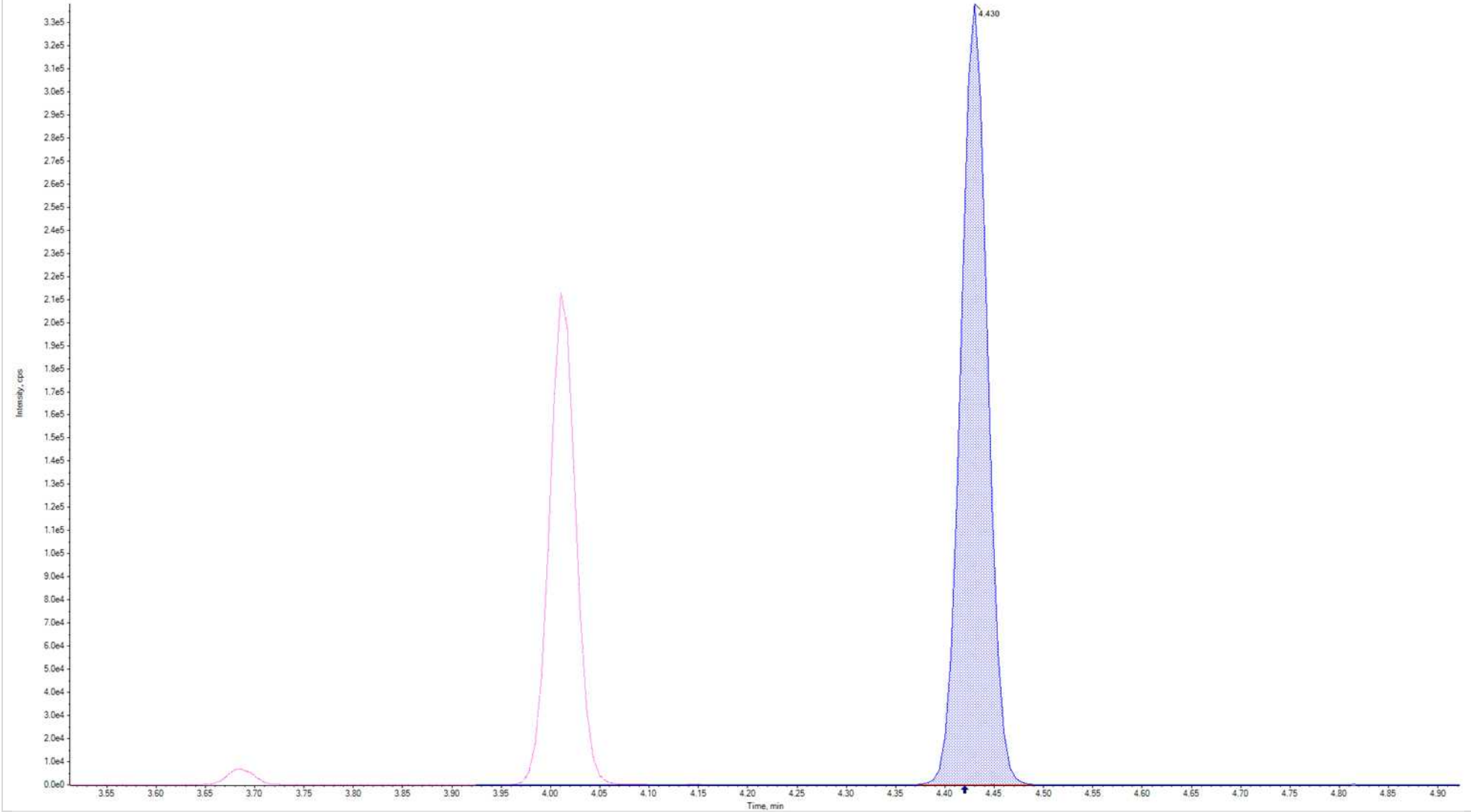
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Alpha Analytical LLC
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PFOS_2
Sample: WG2038851-7,1633FMED S/N:1246.4 Points Across peak:46



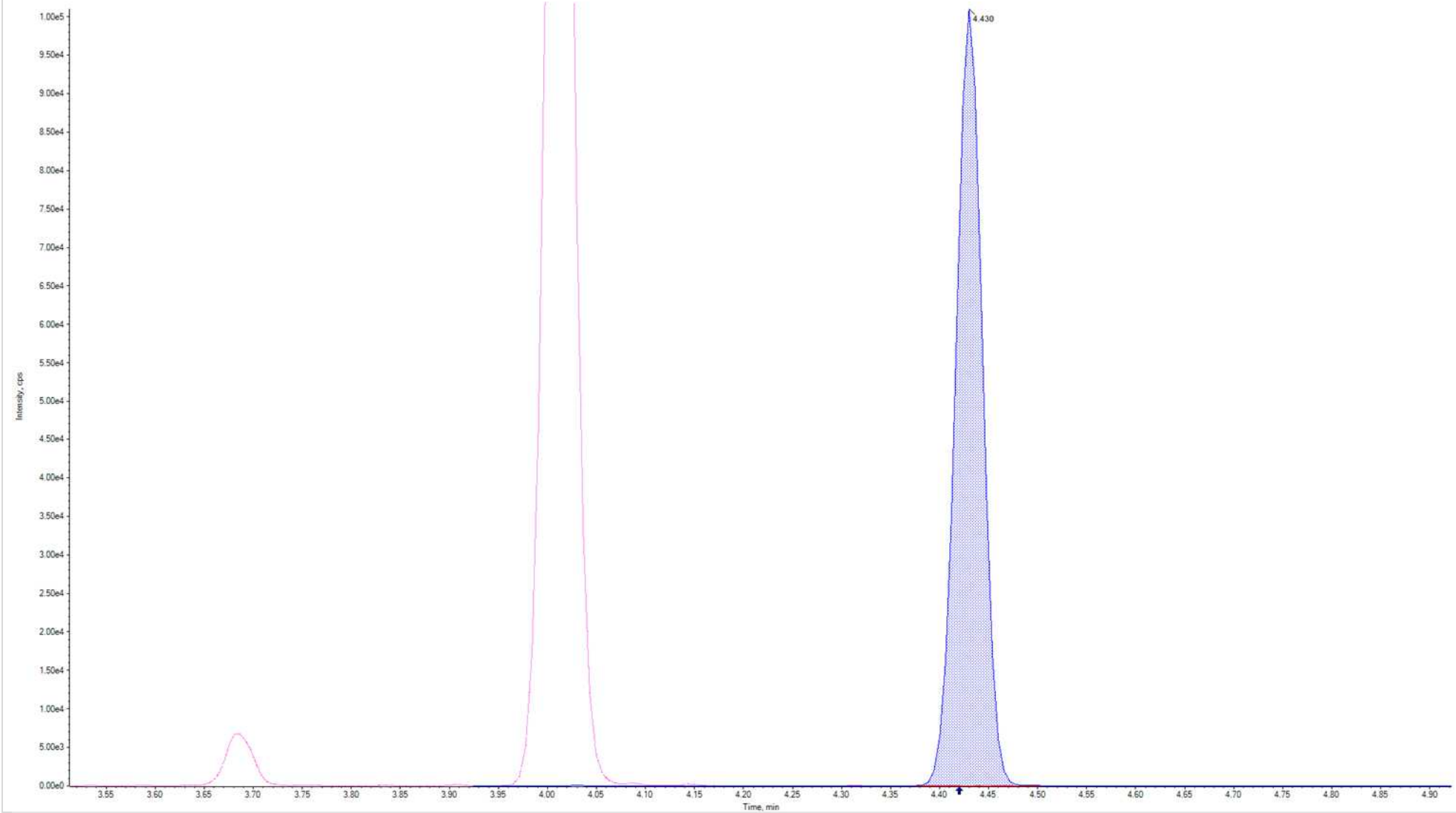
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Alpha Analytical LLC
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PFNS
Sample: WG2038851-7,1633FMED S/N:8474.7 Points Across peak:24



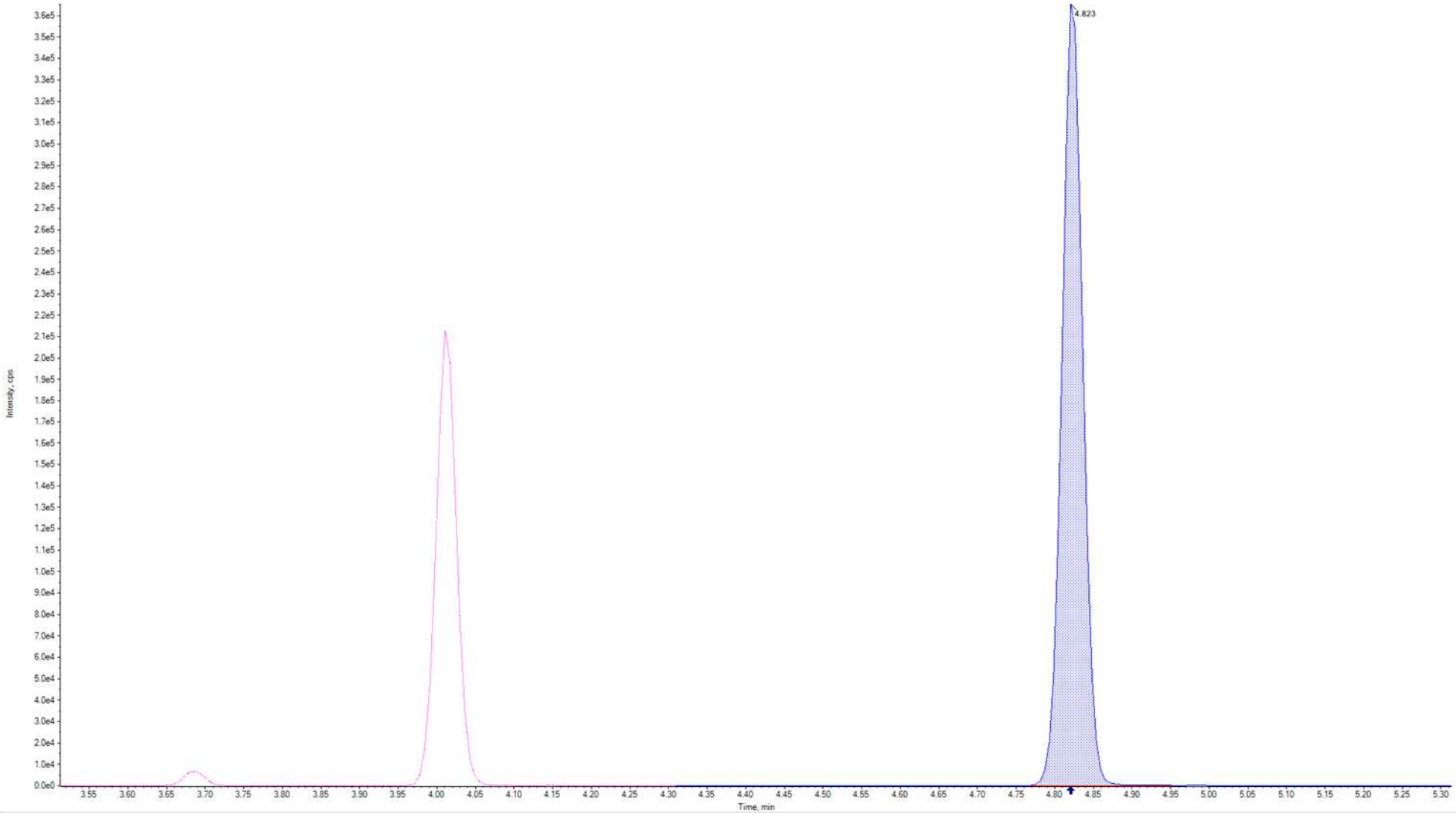
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Alpha Analytical LLC
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PFNS_2
Sample: WG2038851-7,1633FMED S/N:2531.5 Points Across peak:39



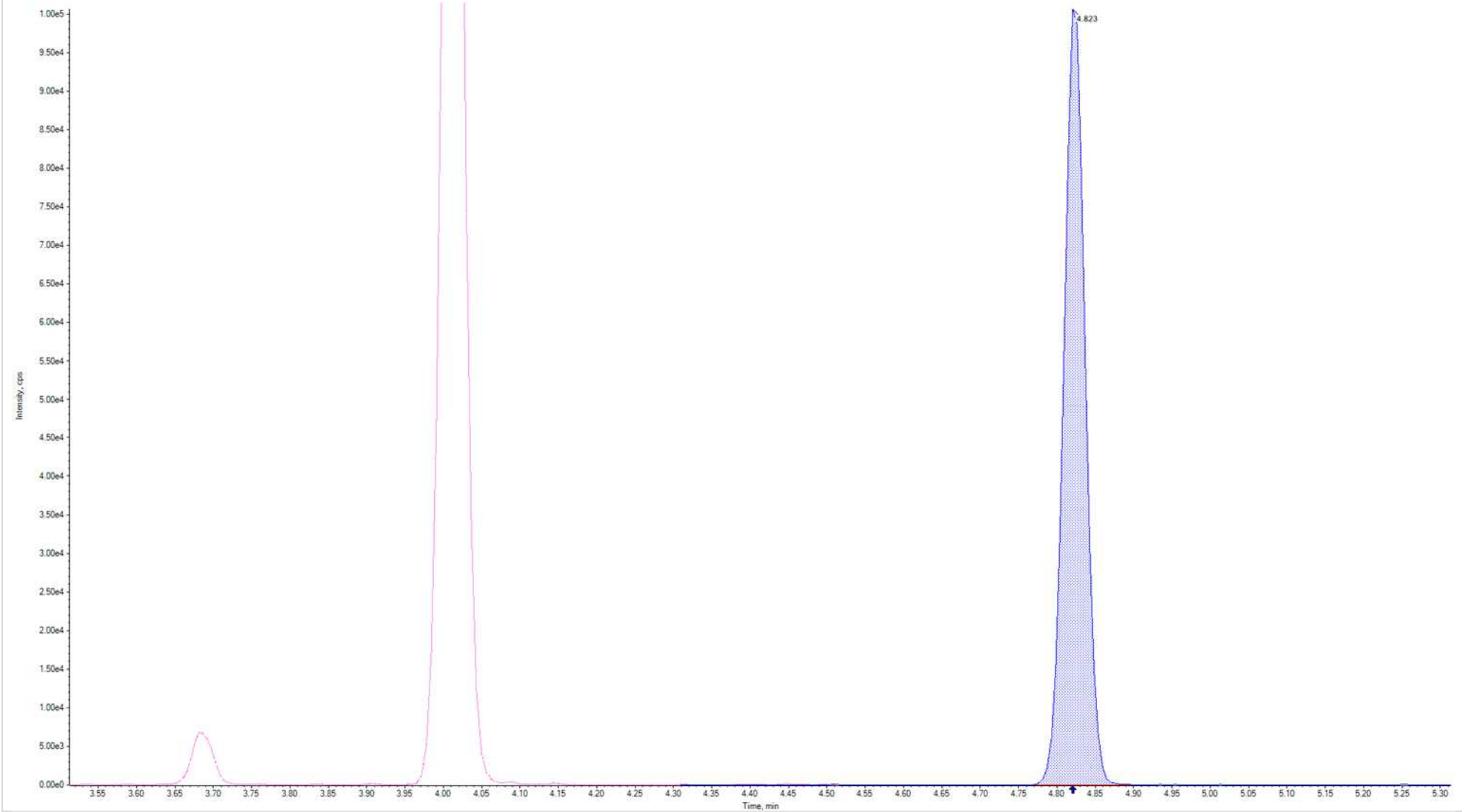
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Alpha Analytical LLC
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PFDS
Sample: WG2038851-7,1633FMED S/N:12826.2 Points Across peak:34



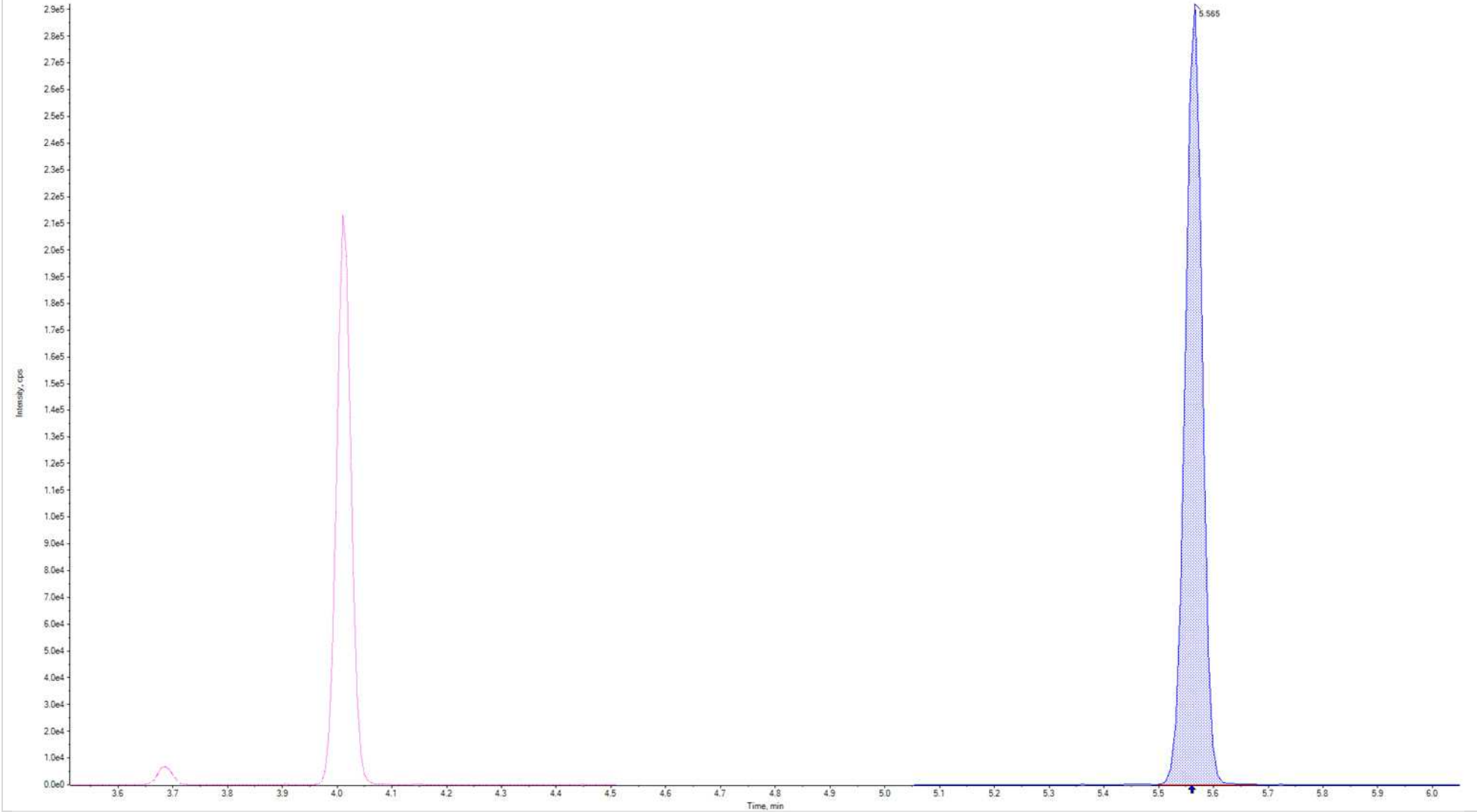
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Alpha Analytical LLC
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PFDS_2
Sample: WG2038851-7,1633FMED S/N:3531.5 Points Across peak:27



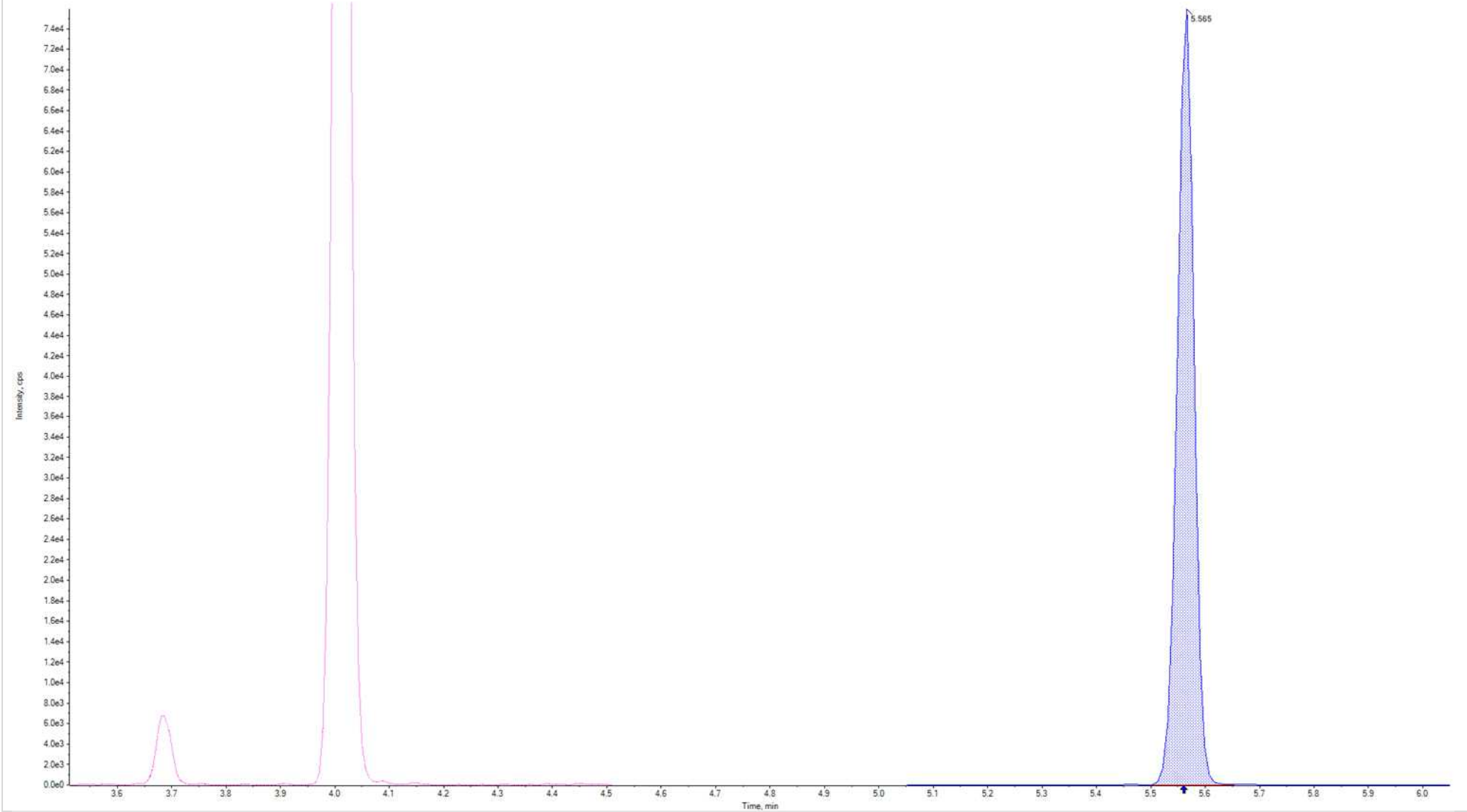
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Alpha Analytical LLC
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PFDoS
Sample: WG2038851-7,1633FMED S/N:7843.3 Points Across peak:24



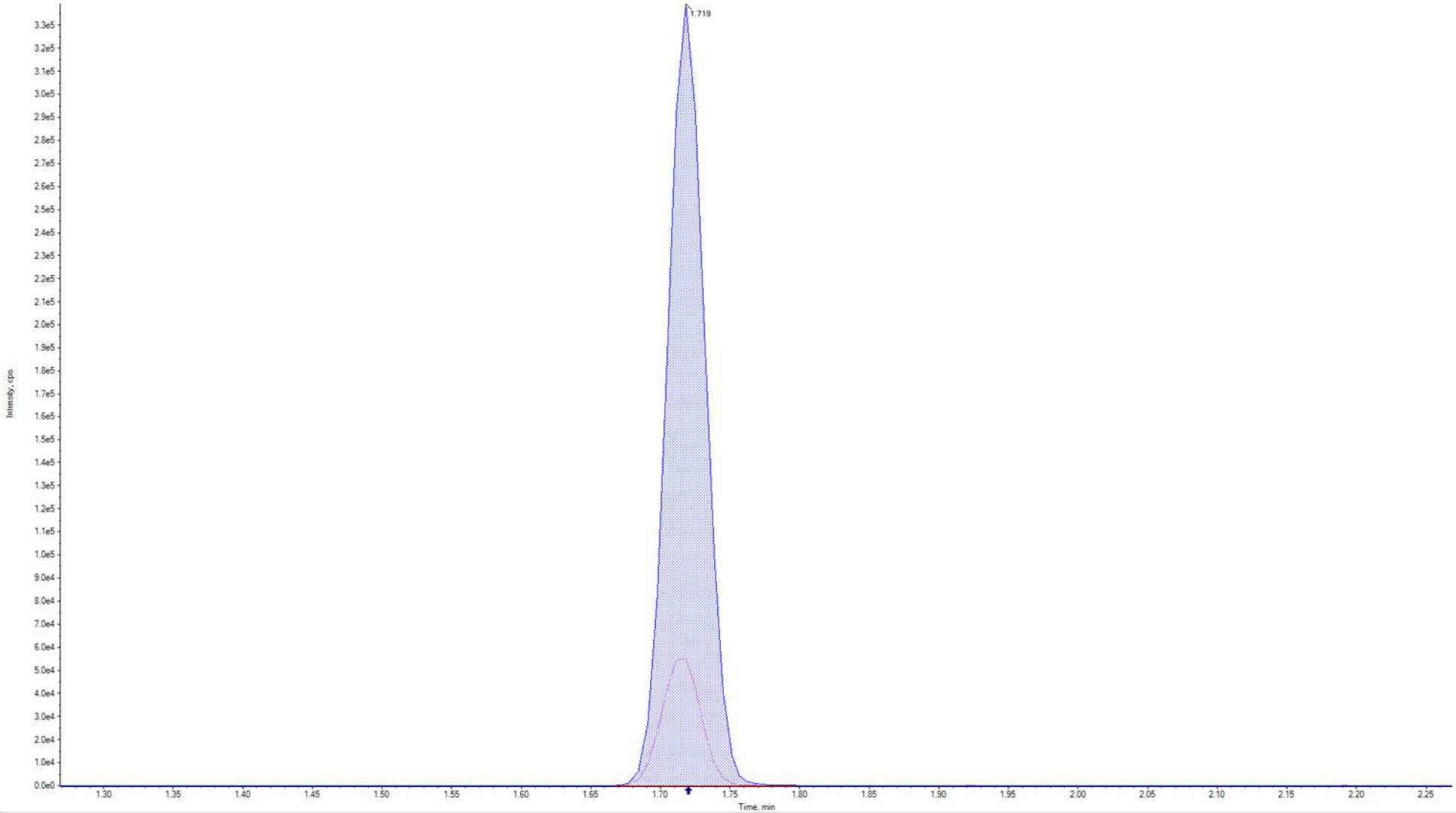
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Alpha Analytical LLC
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PFDoS_2
Sample: WG2038851-7,1633FMED S/N:5899.4 Points Across peak:19



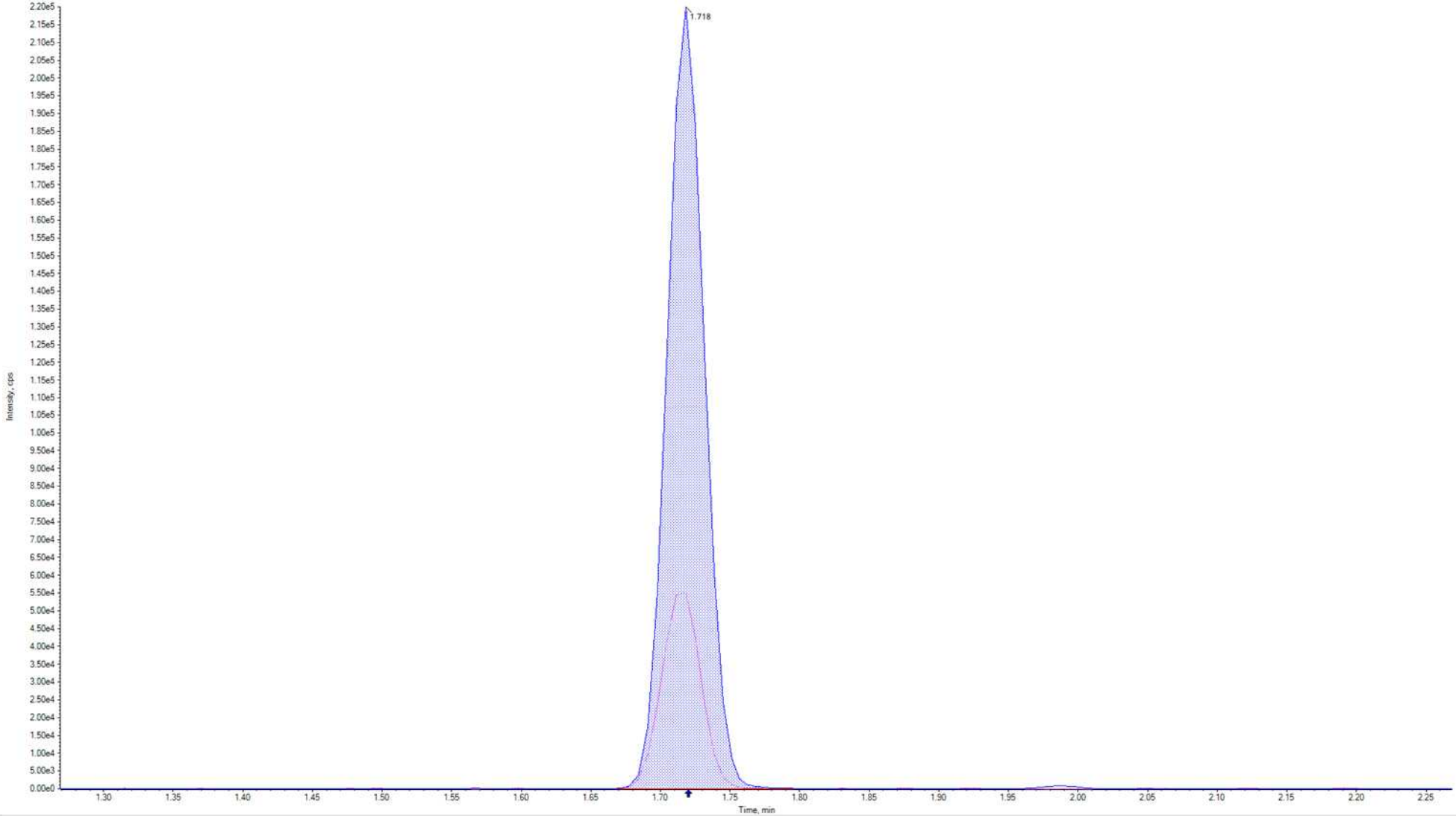
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4:2FTS
Sample: WG2038851-7,1633FMED S/N:7032.7 Points Across peak:29



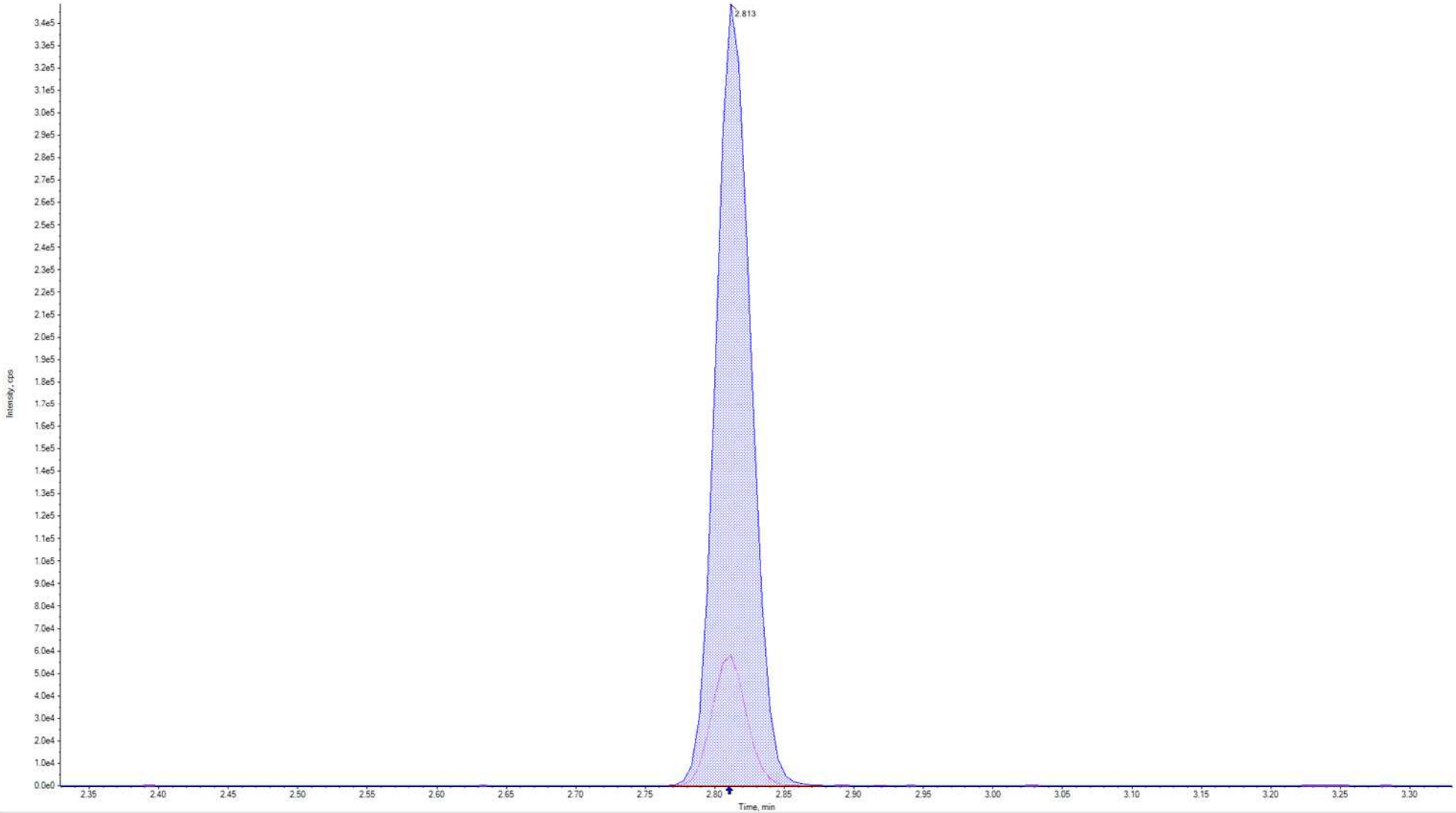
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4:2FTS_2
Sample: WG2038851-7,1633FMED S/N:5319.5 Points Across peak:32



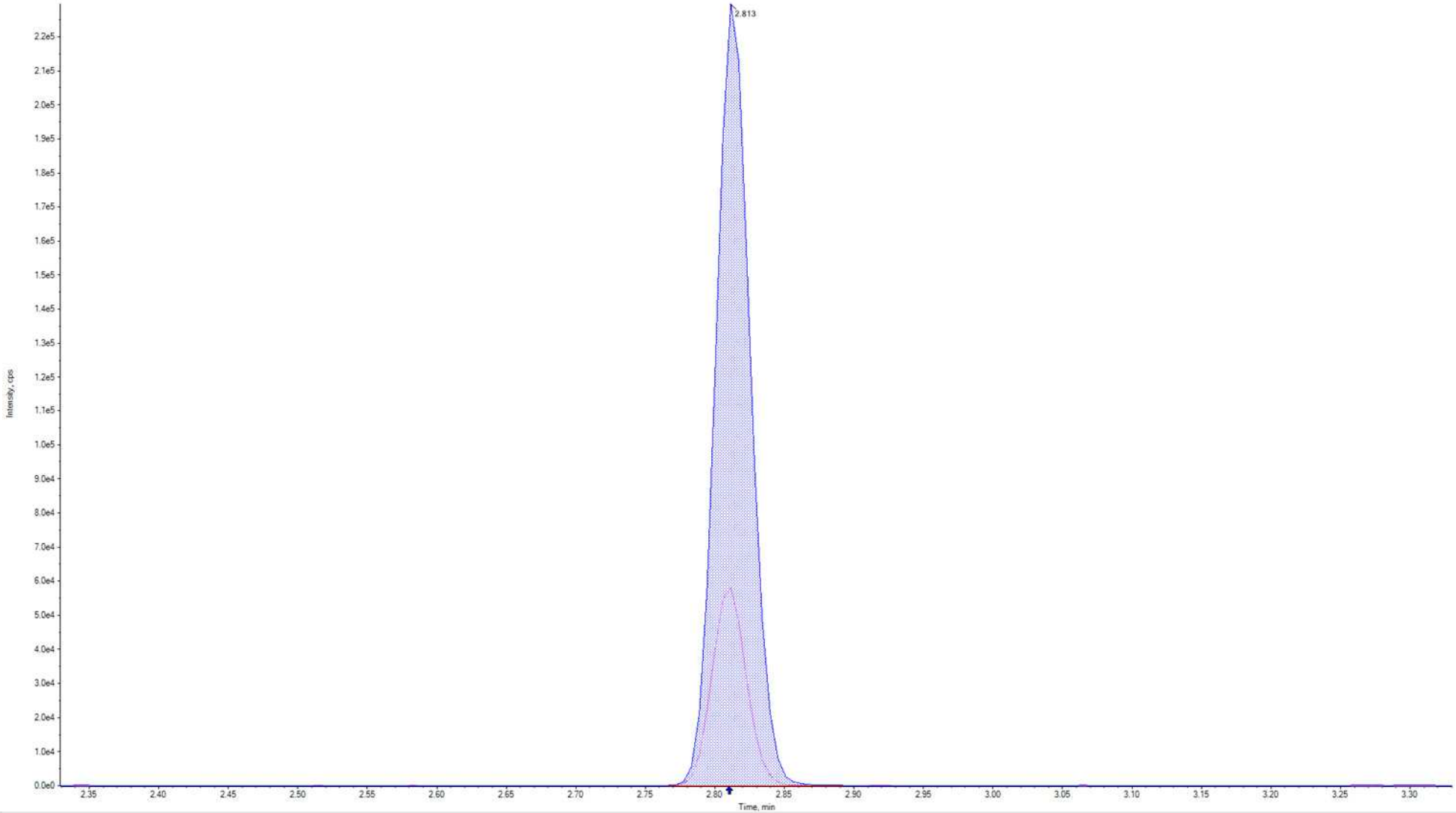
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6:2FTS
Sample: WG2038851-7,1633FMED S/N:4689.3 Points Across peak:24



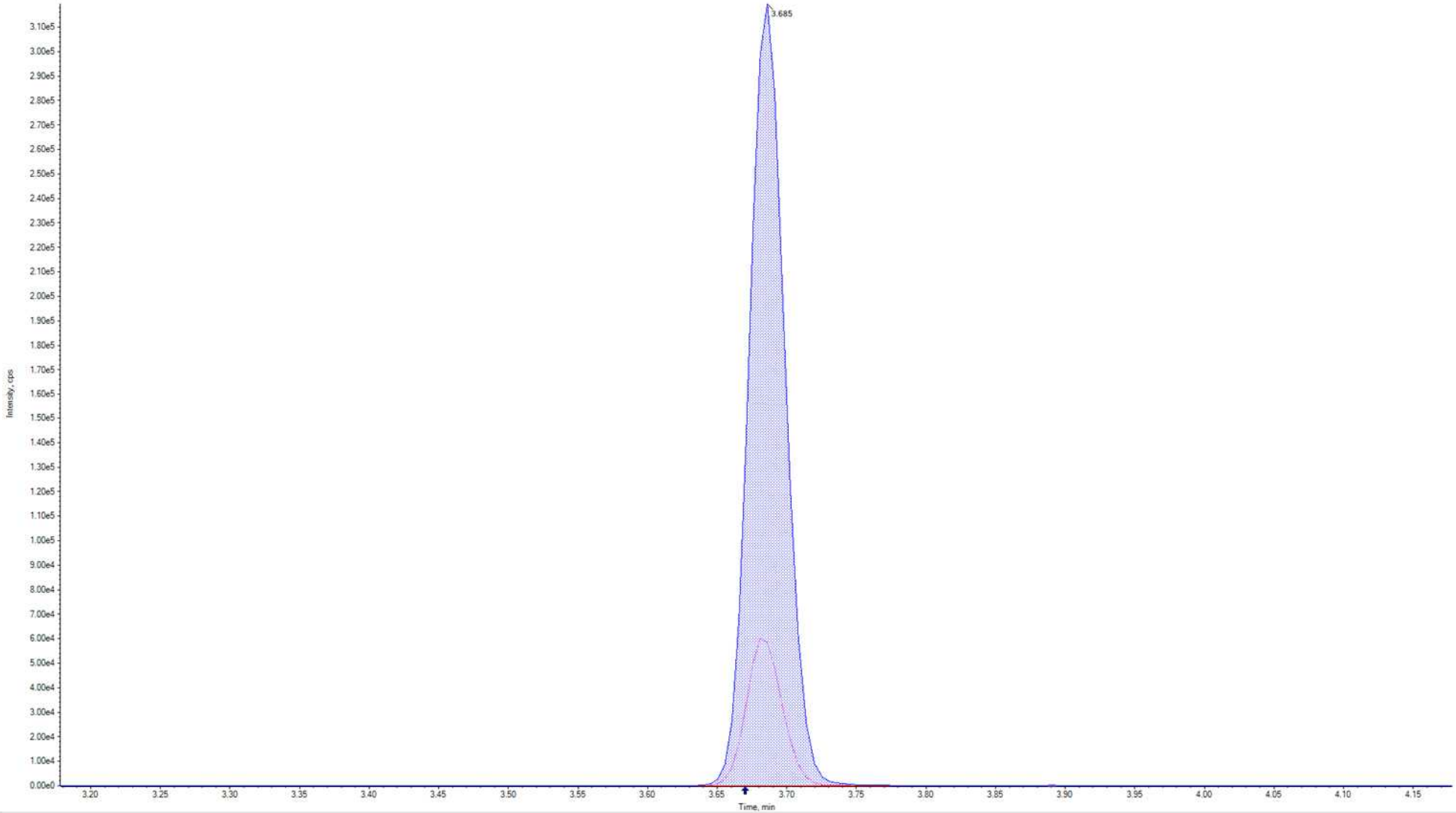
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Alpha Analytical LLC
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6:2FTS_2
Sample: WG2038851-7,1633FMED S/N:4605.0 Points Across peak:36



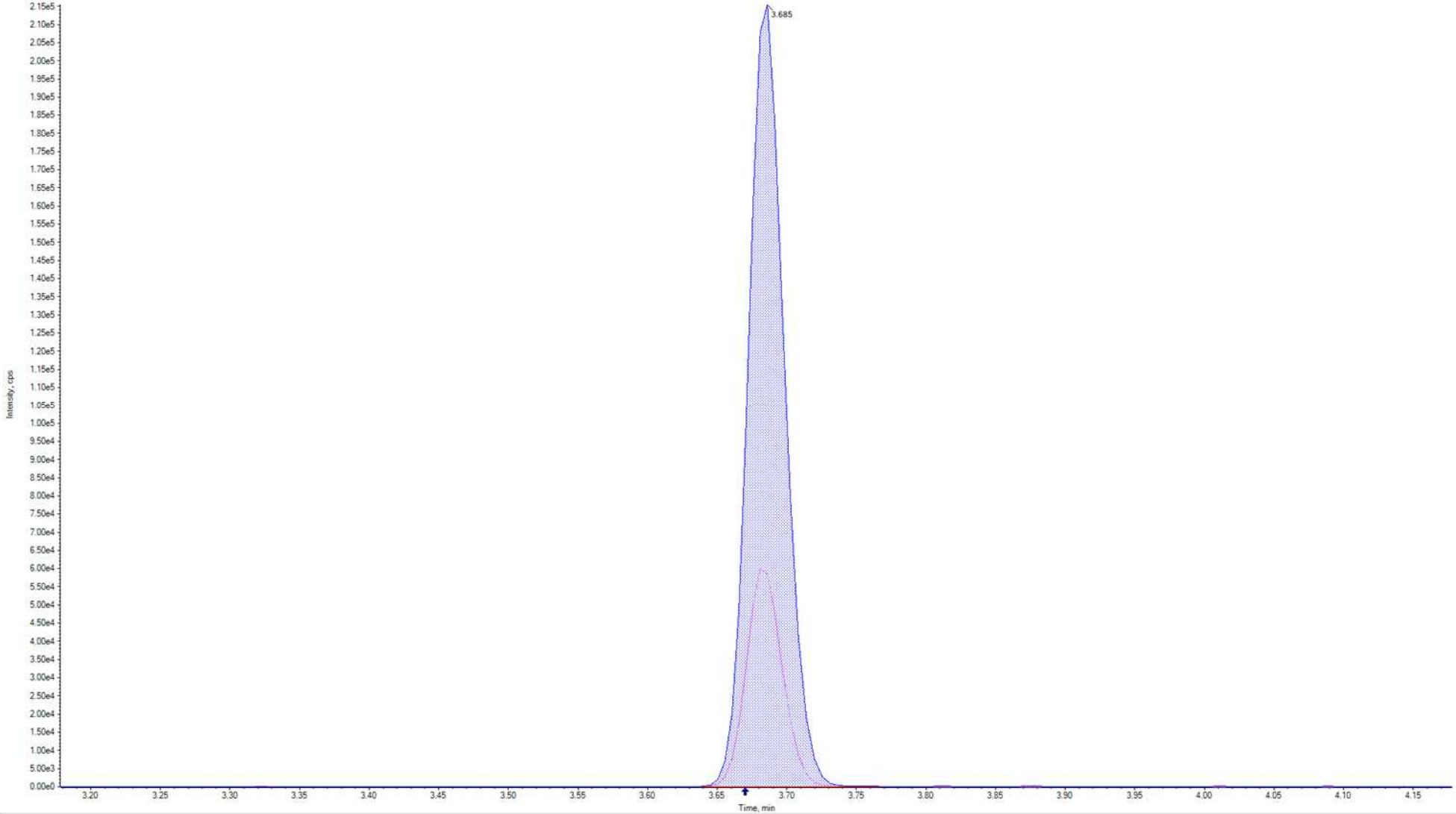
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8:2FTS
Sample: WG2038851-7,1633FMED S/N:6406.3 Points Across peak:35



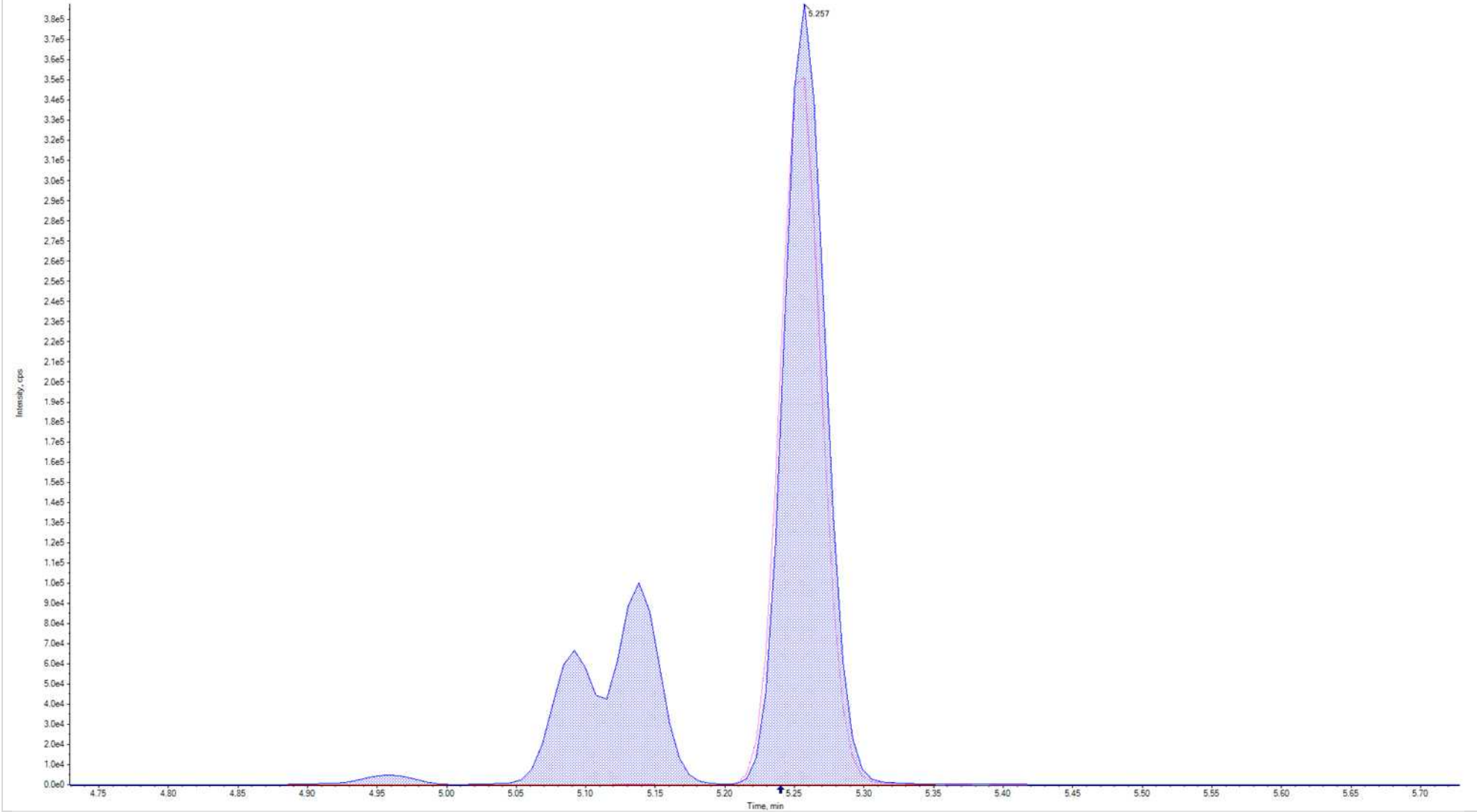
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8:2FTS_2
Sample: WG2038851-7,1633FMED S/N:4320.7 Points Across peak:35



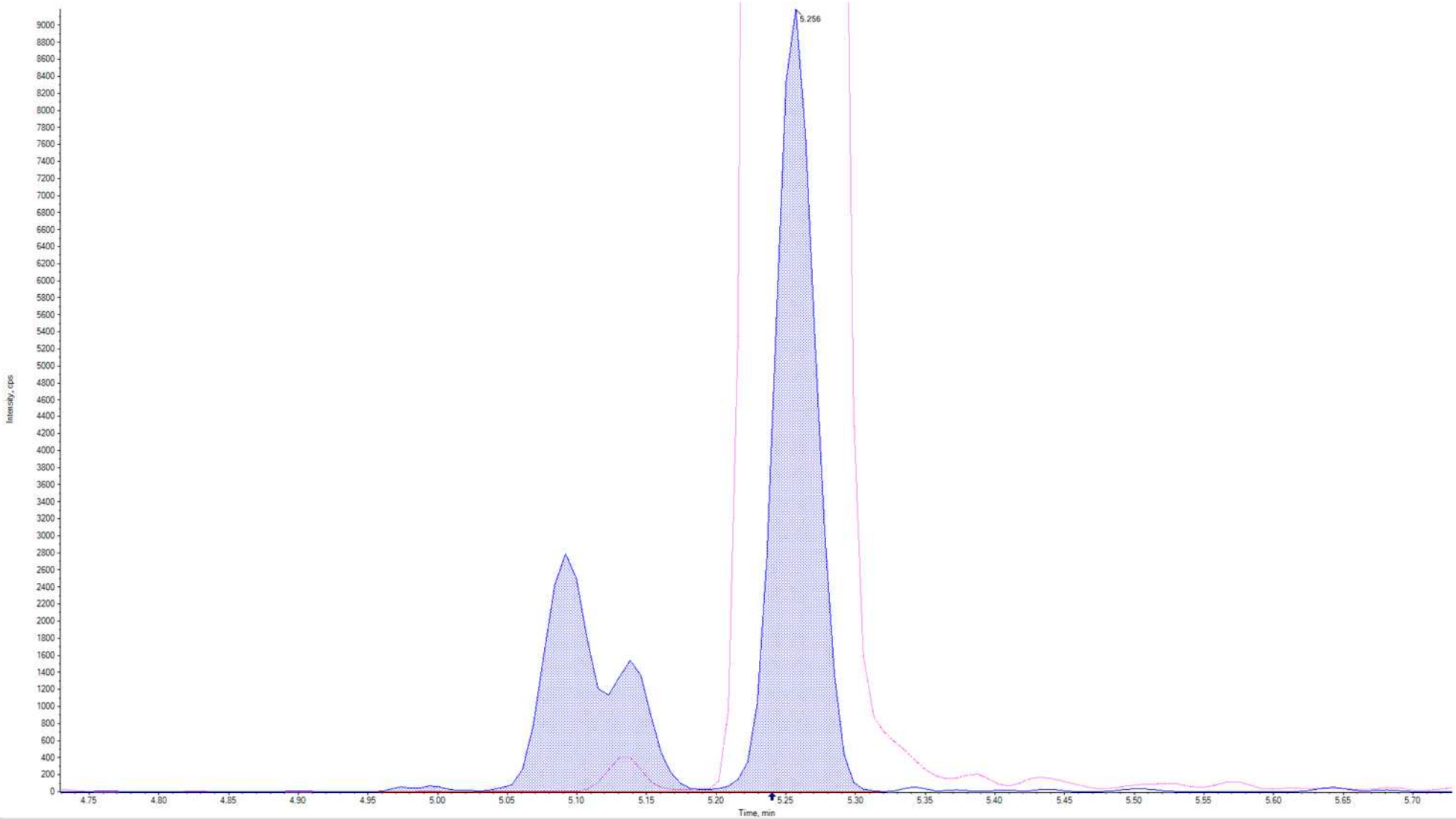
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Alpha Analytical LLC
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PFOSA
Sample: WG2038851-7,1633FMED S/N:362.5 Points Across peak:70



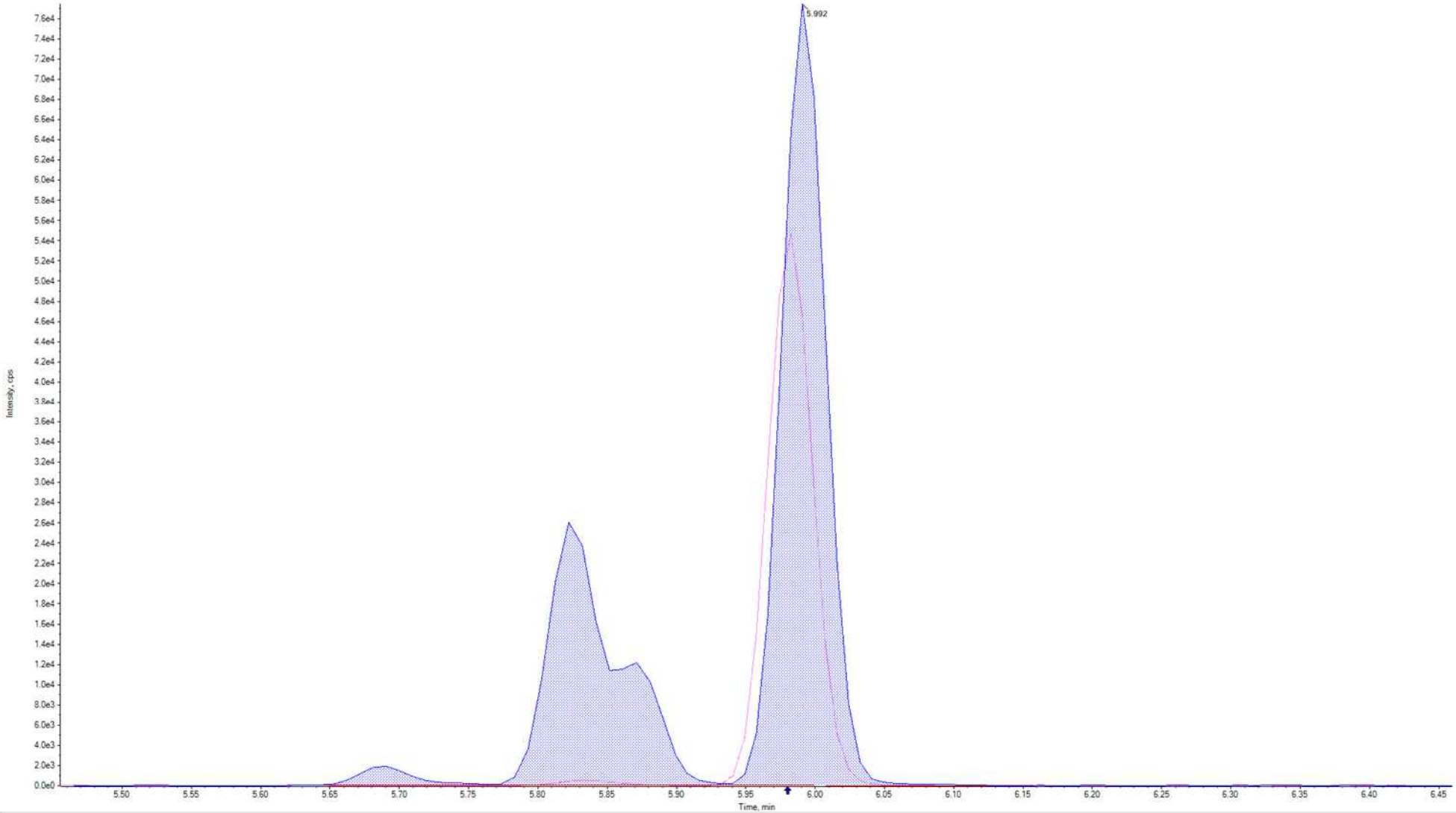
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Alpha Analytical LLC
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PFOSA_2
Sample: WG2038851-7,1633FMED S/N:315.6 Points Across peak:53



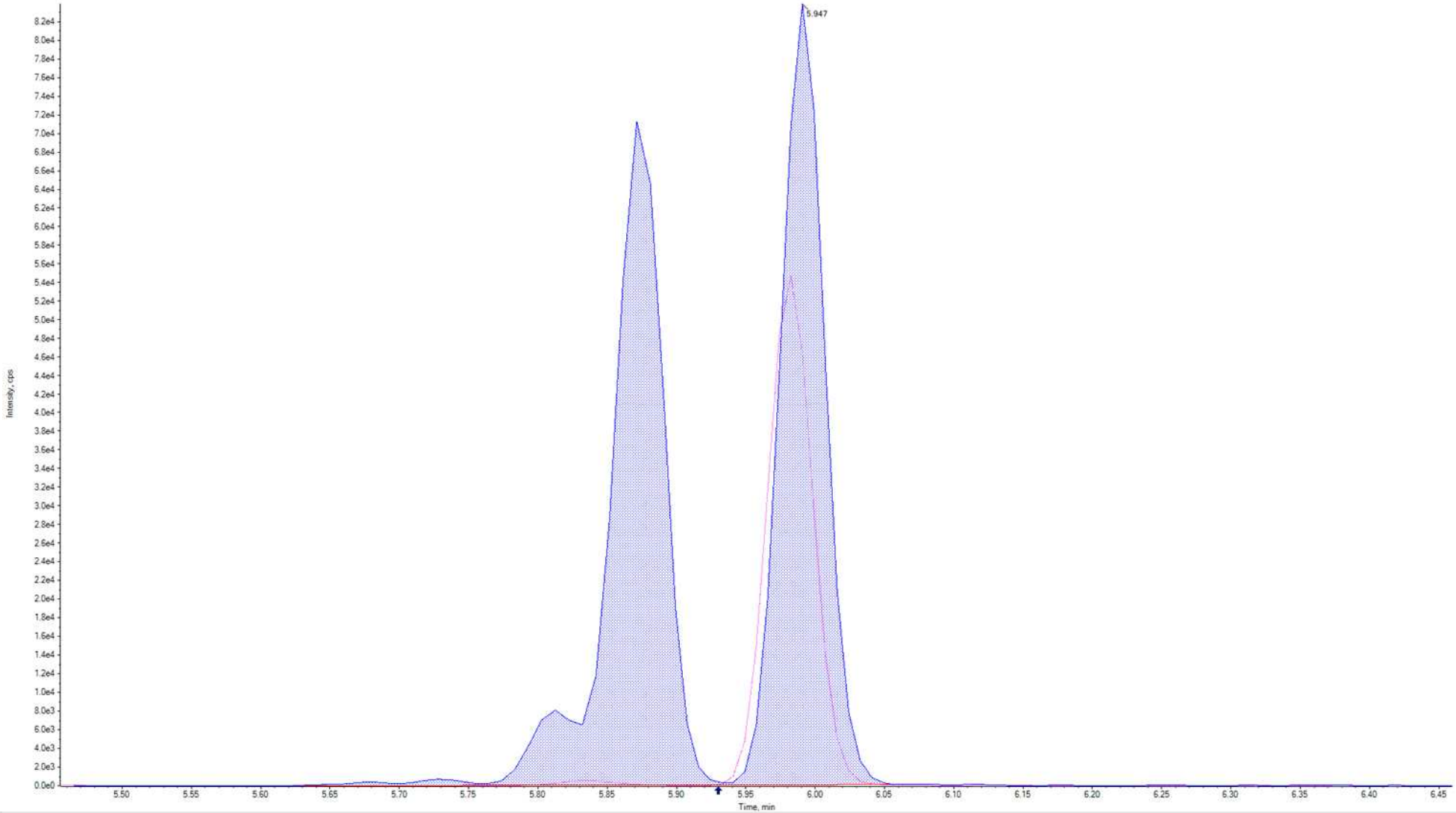
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Alpha Analytical LLC
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NMeFOSA
Sample: WG2038851-7,1633FMED S/N:349.6 Points Across peak:60



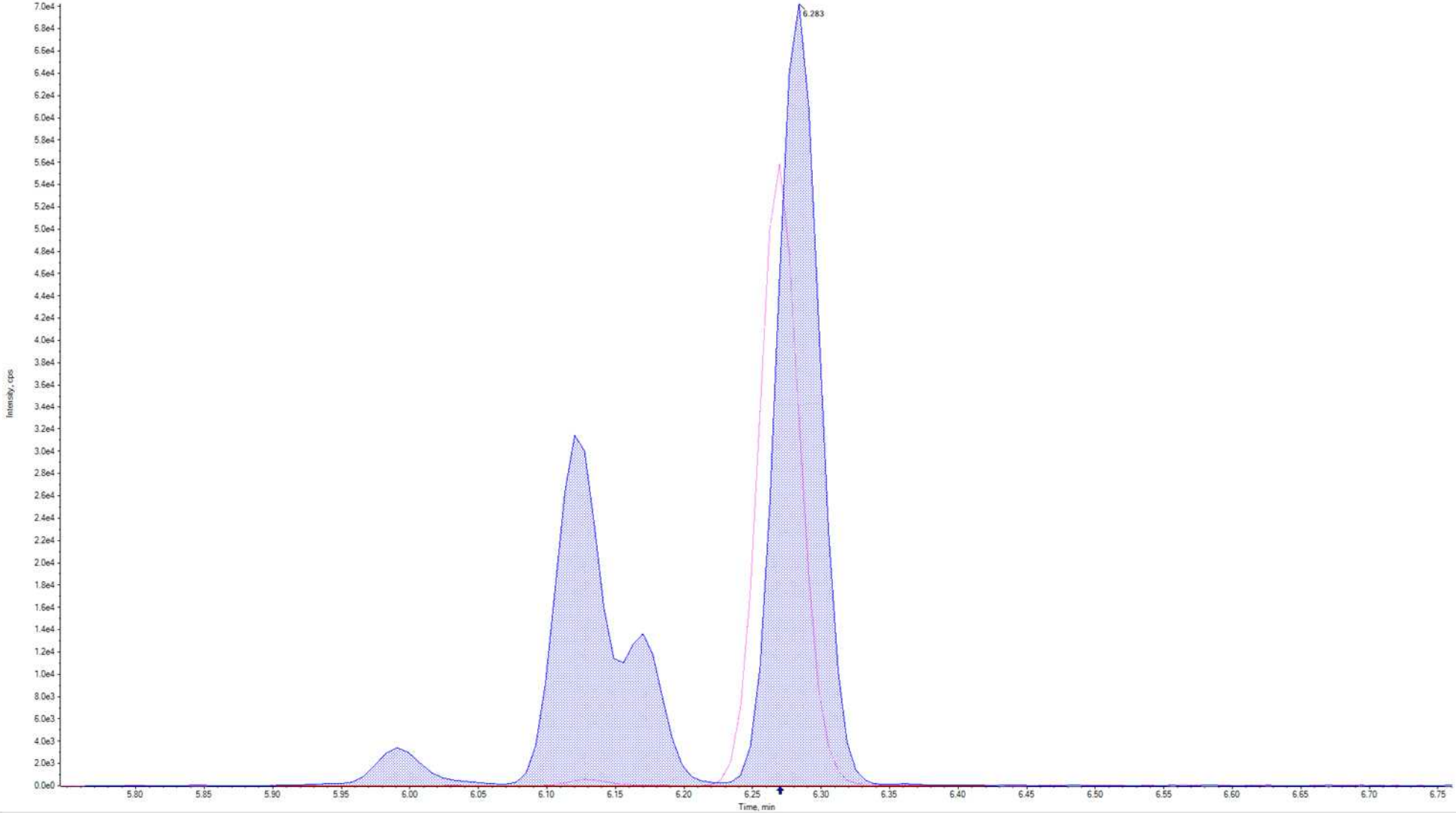
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Alpha Analytical LLC
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NMeFOSA_2
Sample: WG2038851-7,1633FMED S/N:295.4 Points Across peak:51



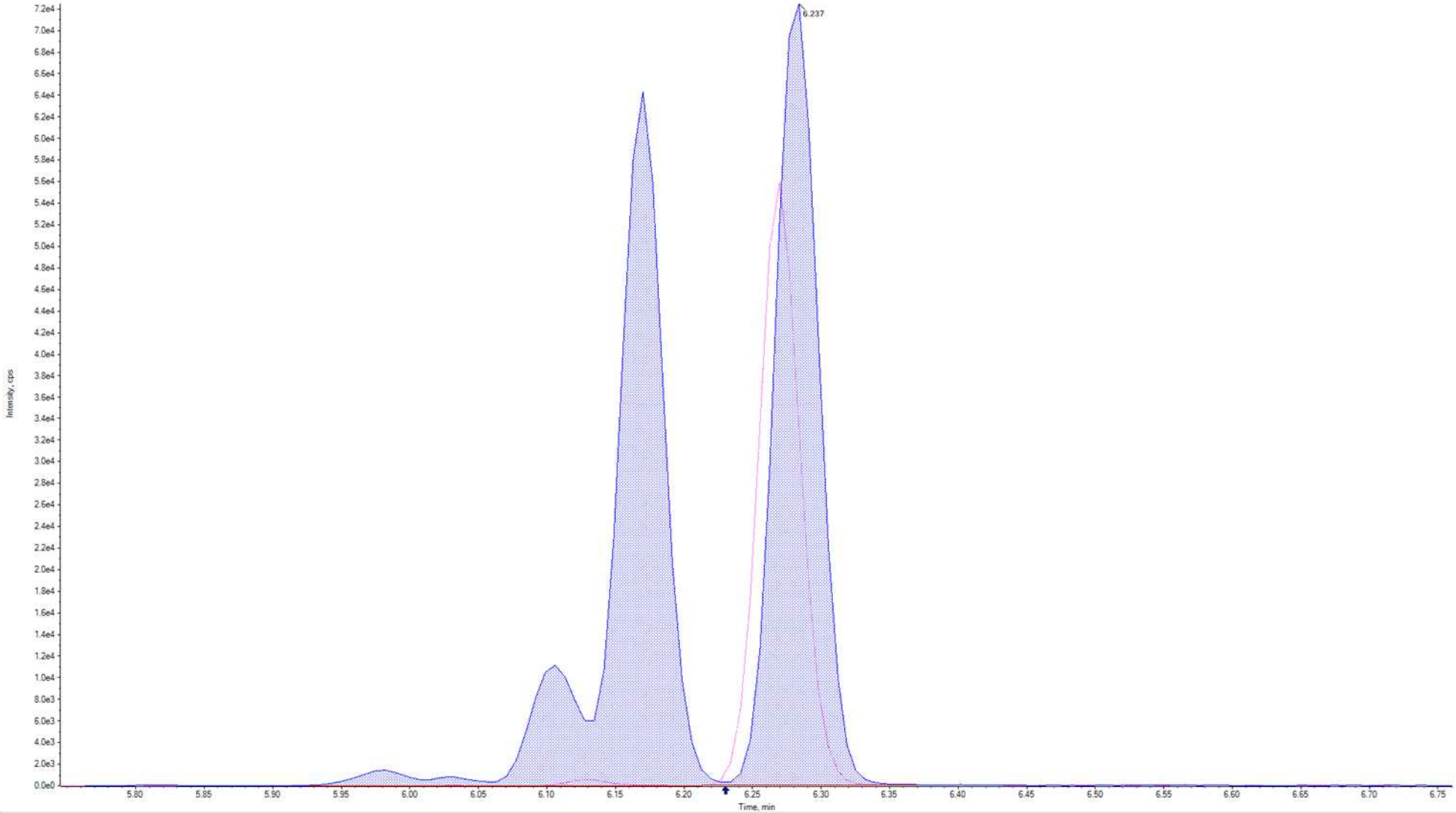
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NEtFOSA
Sample: WG2038851-7,1633FMED S/N:595.9 Points Across peak:76



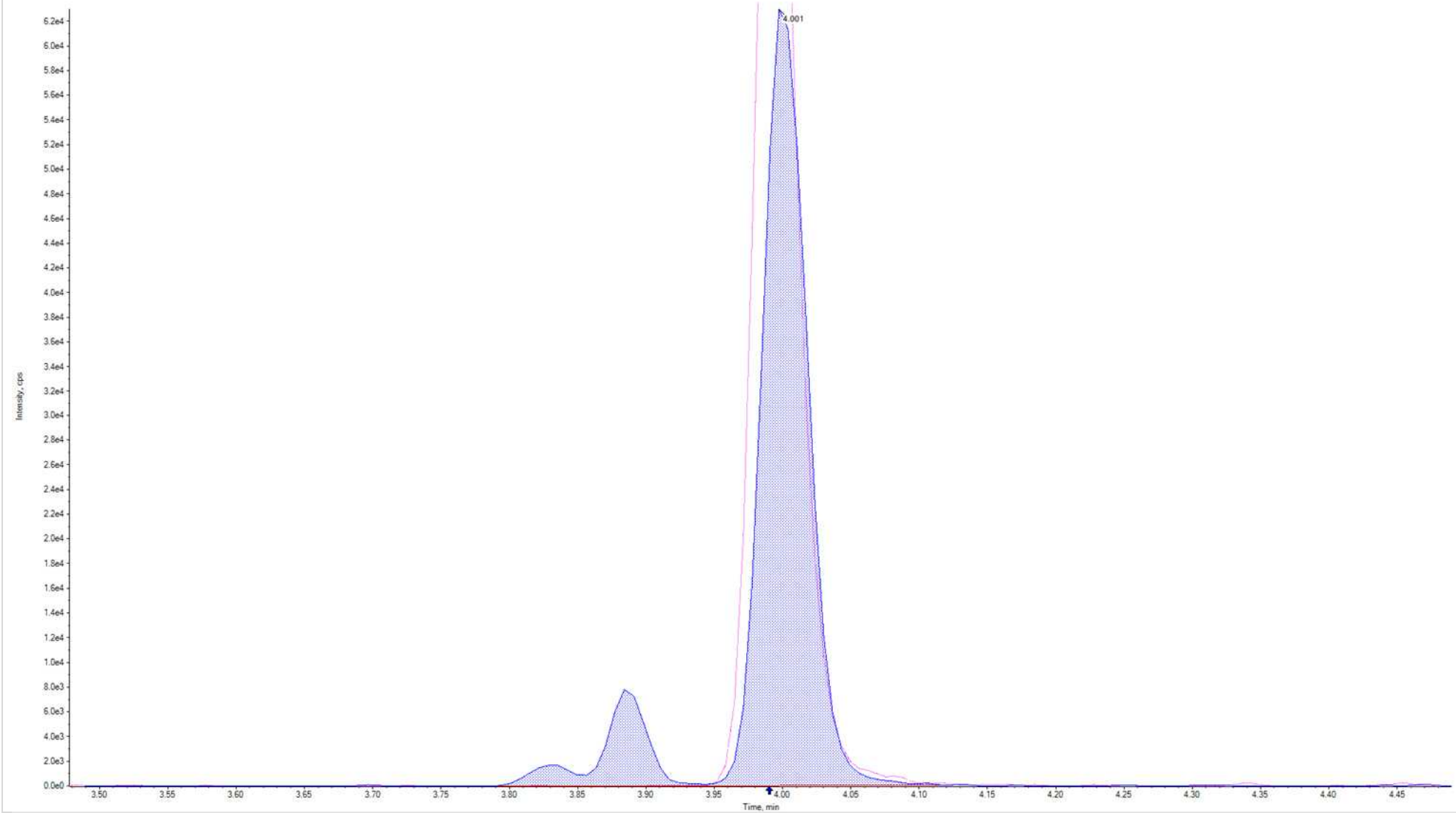
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NEtFOSA_2
Sample: WG2038851-7,1633FMED S/N:572.5 Points Across peak:67



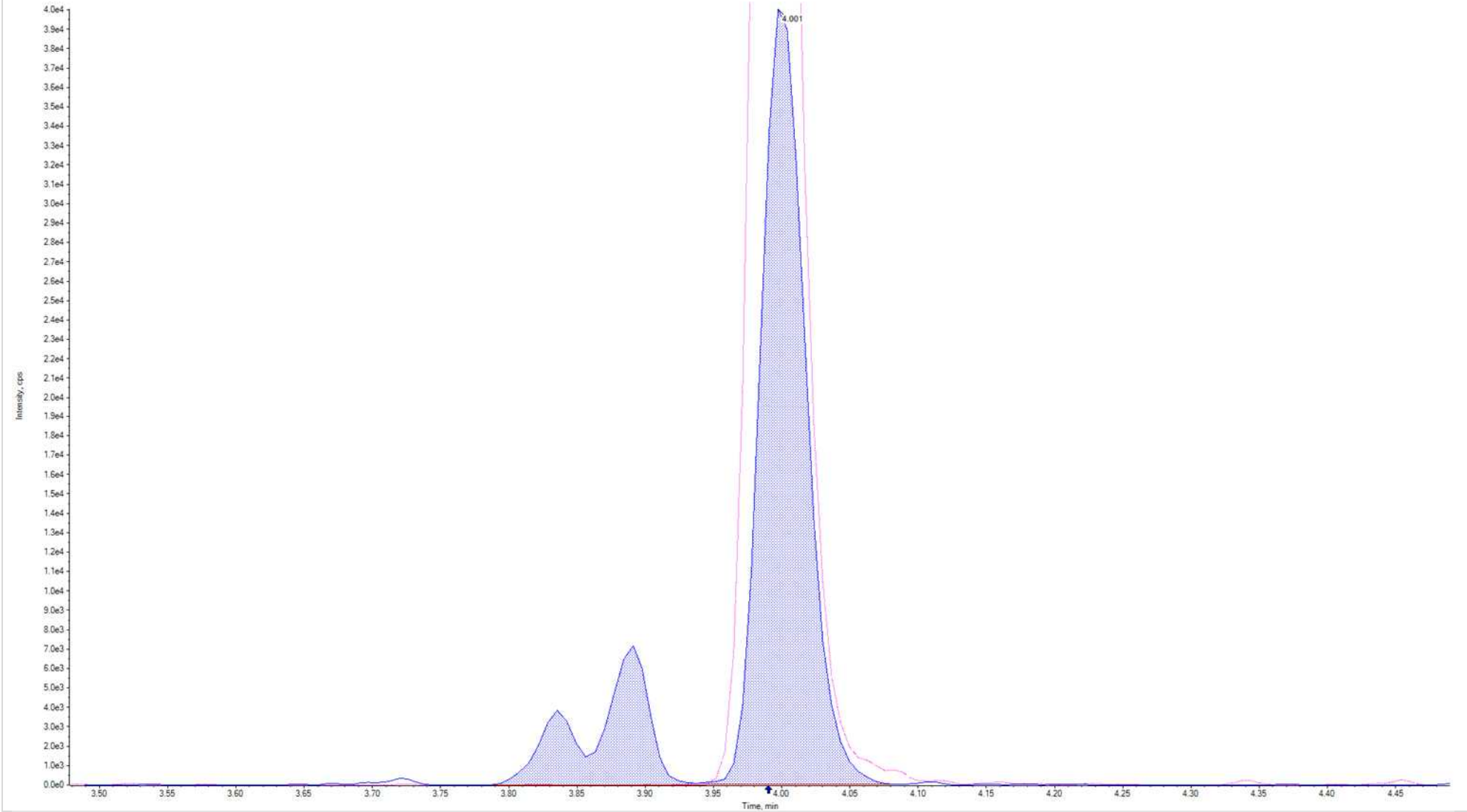
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NMeFOSAA
Sample: WG2038851-7,1633FMED S/N:656.0 Points Across peak:52



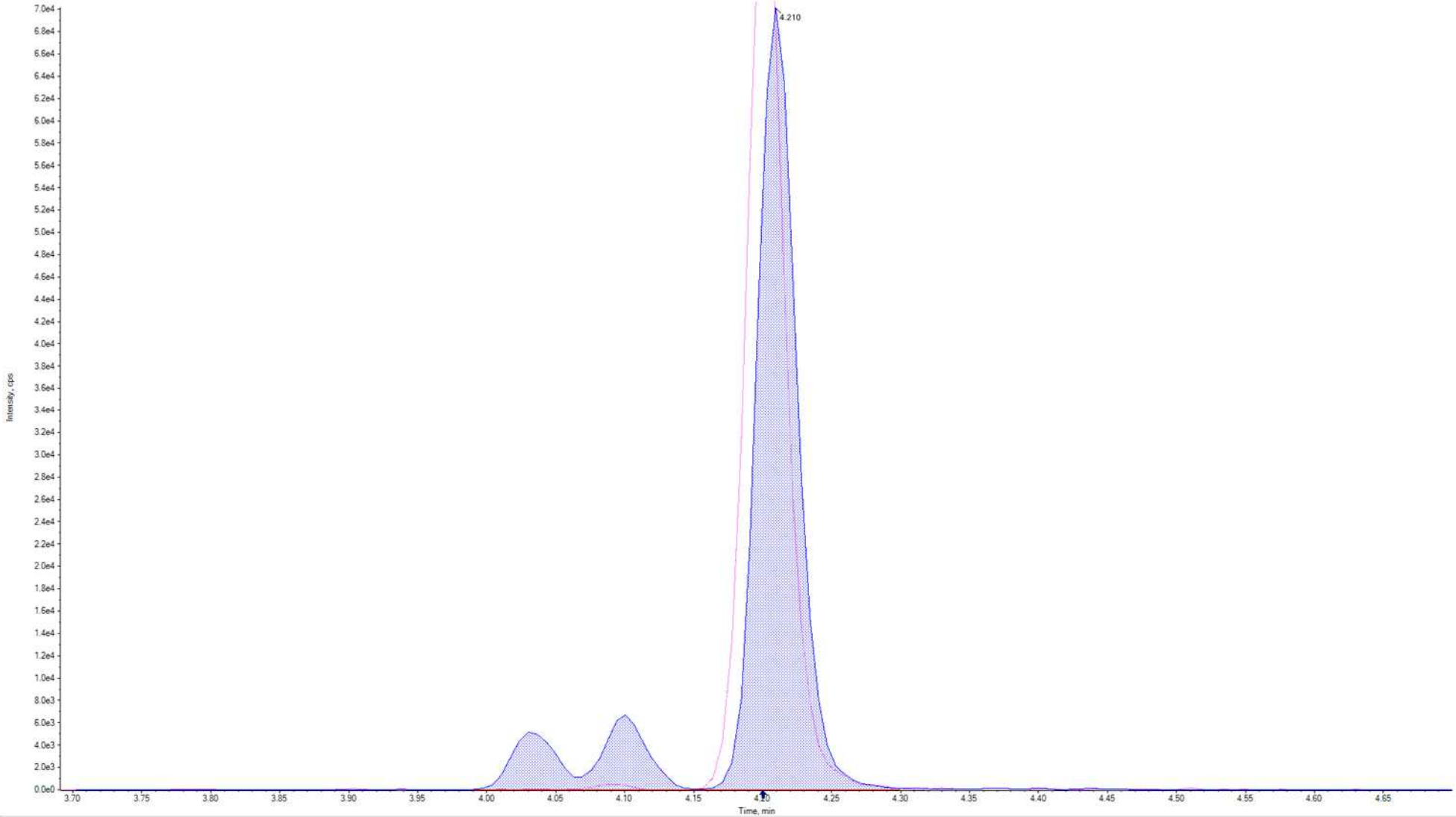
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NMeFOSAA_2
Sample: WG2038851-7,1633FMED S/N:486.3 Points Across peak:47



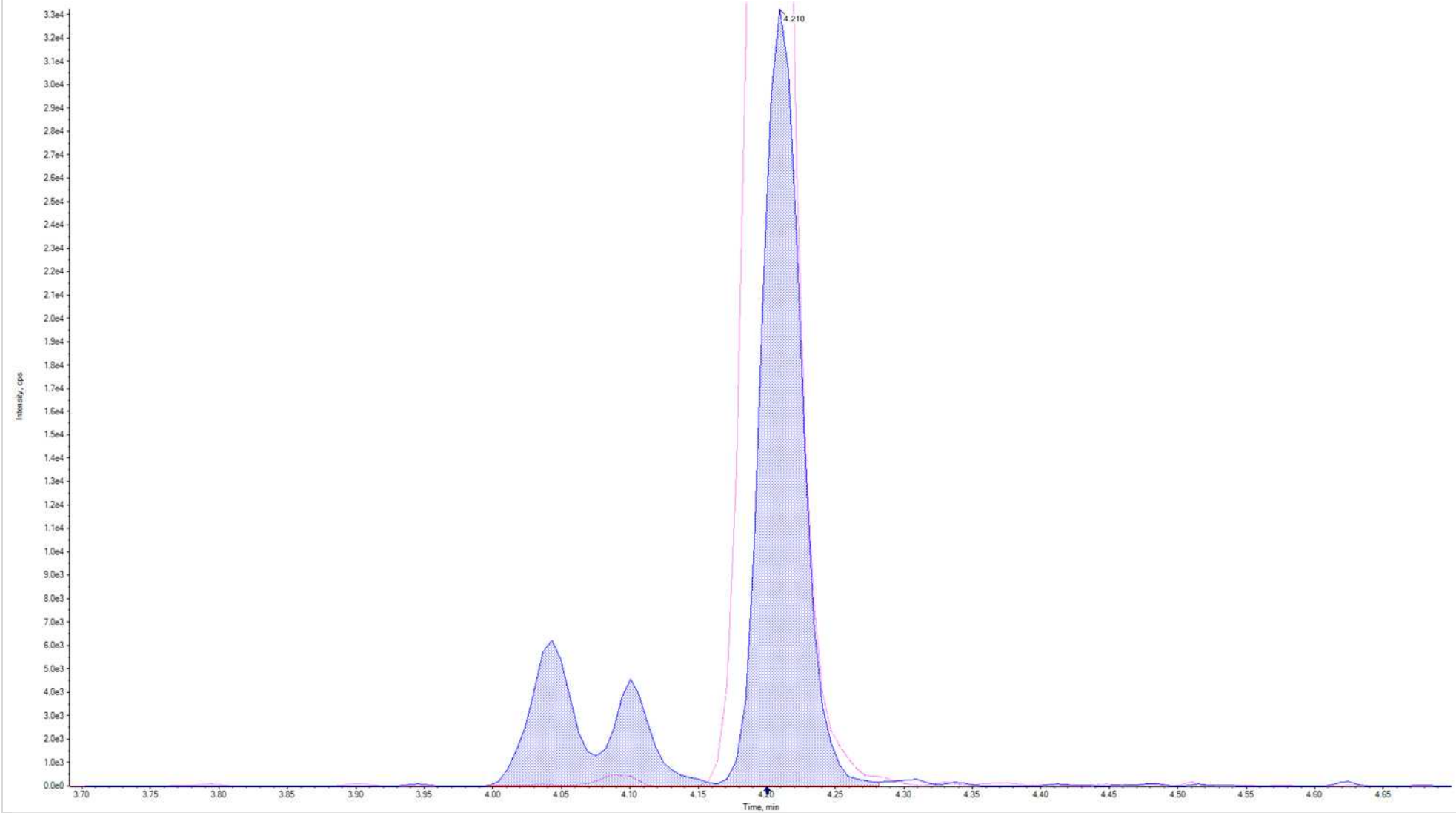
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NEtFOSAA
Sample: WG2038851-7,1633FMED S/N:554.2 Points Across peak:51



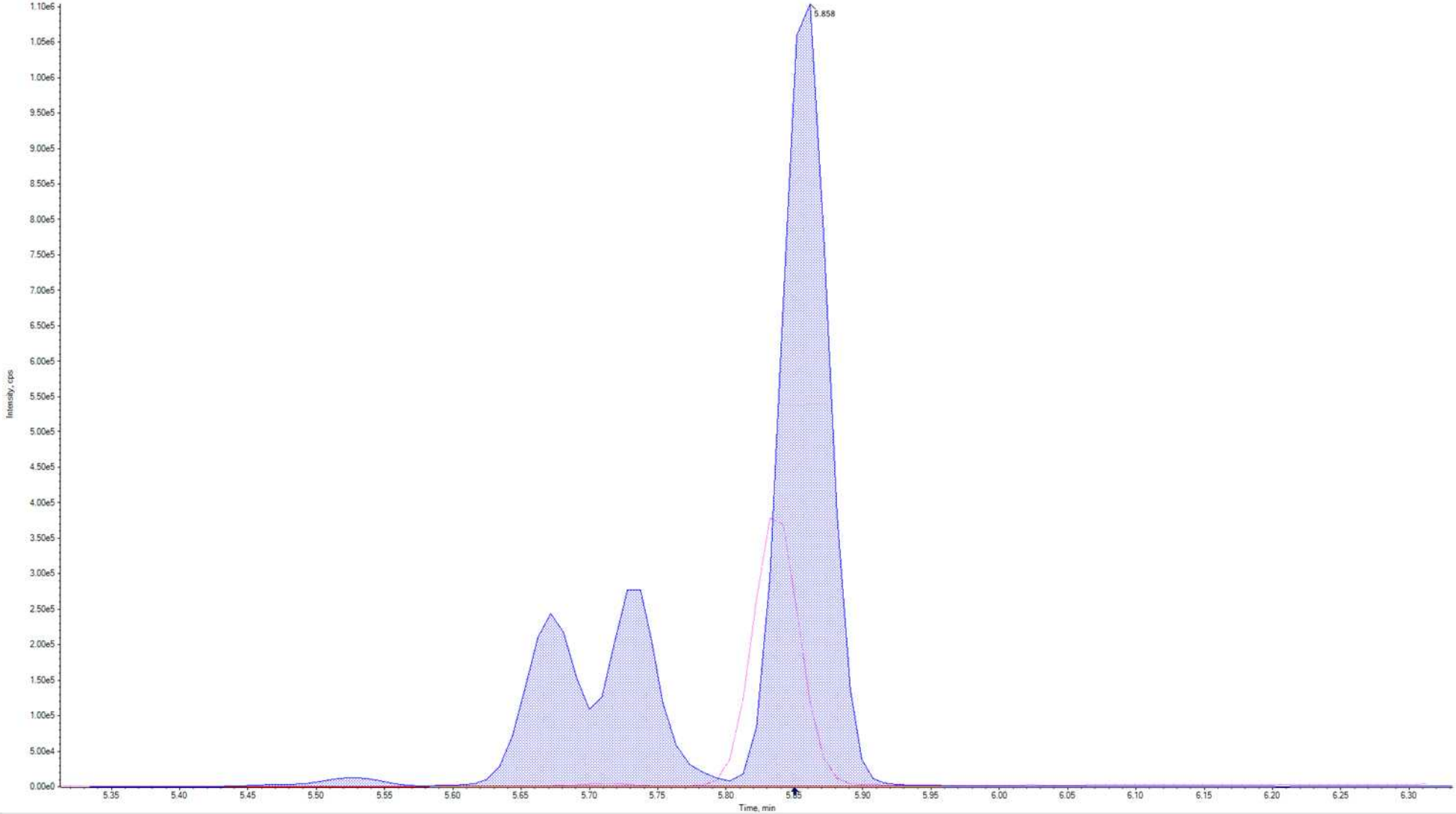
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NEtFOSAA_2
Sample: WG2038851-7,1633FMED S/N:310.1 Points Across peak:47



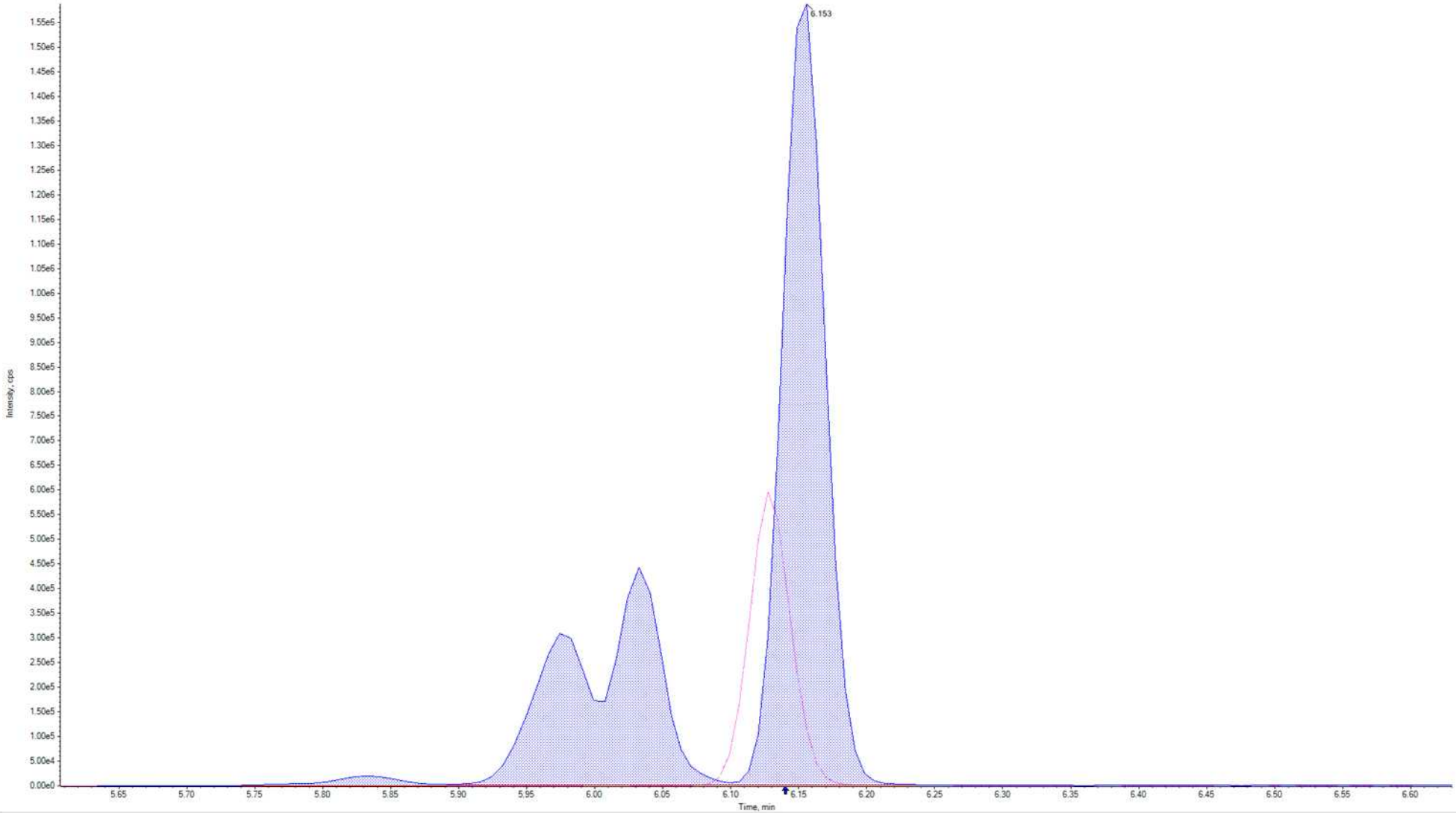
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NMeFOSE
Sample: WG2038851-7,1633FMED S/N:218.6 Points Across peak:63



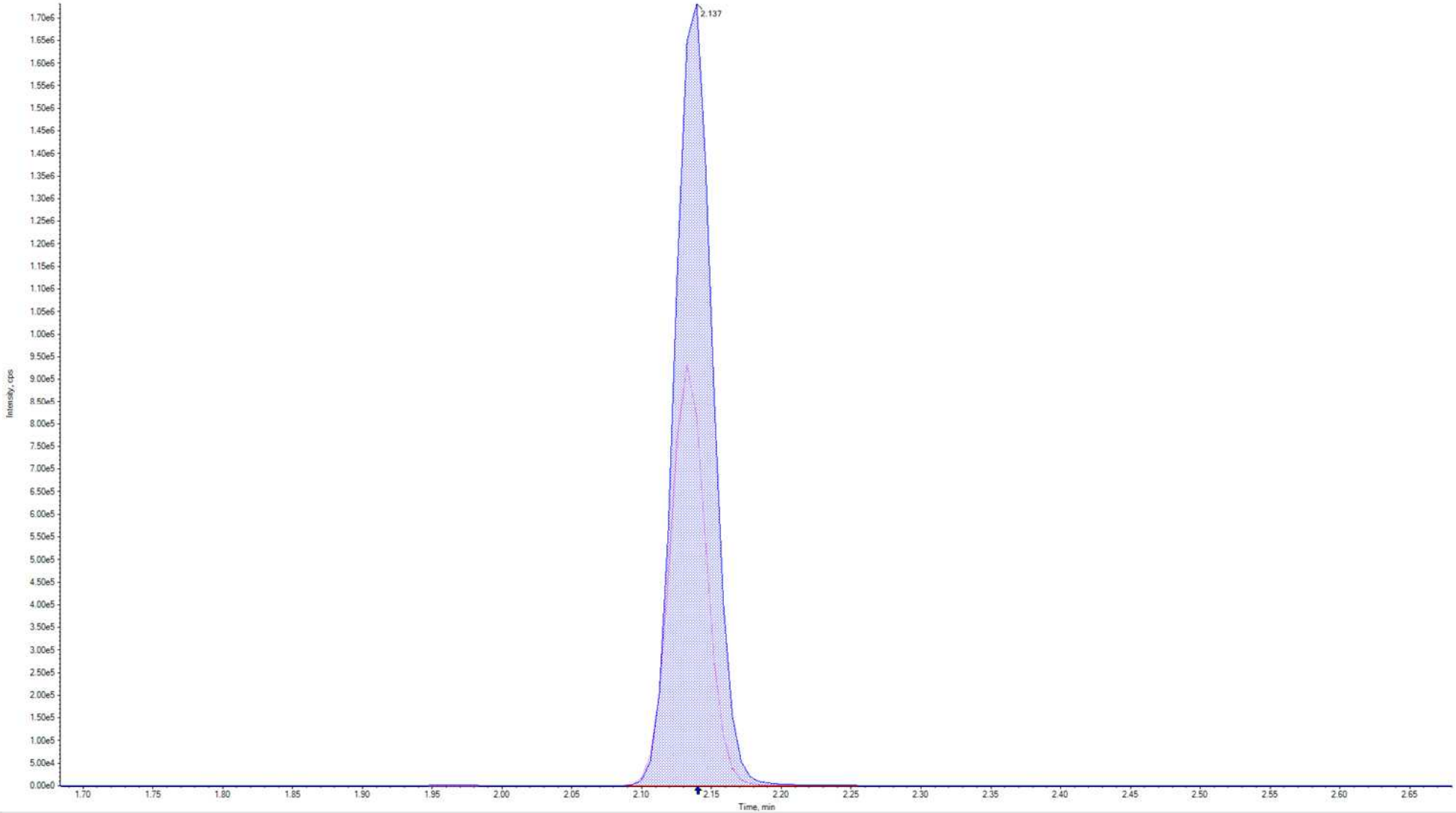
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NEtFOSE
Sample: WG2038851-7,1633FMED S/N:433.1 Points Across peak:67



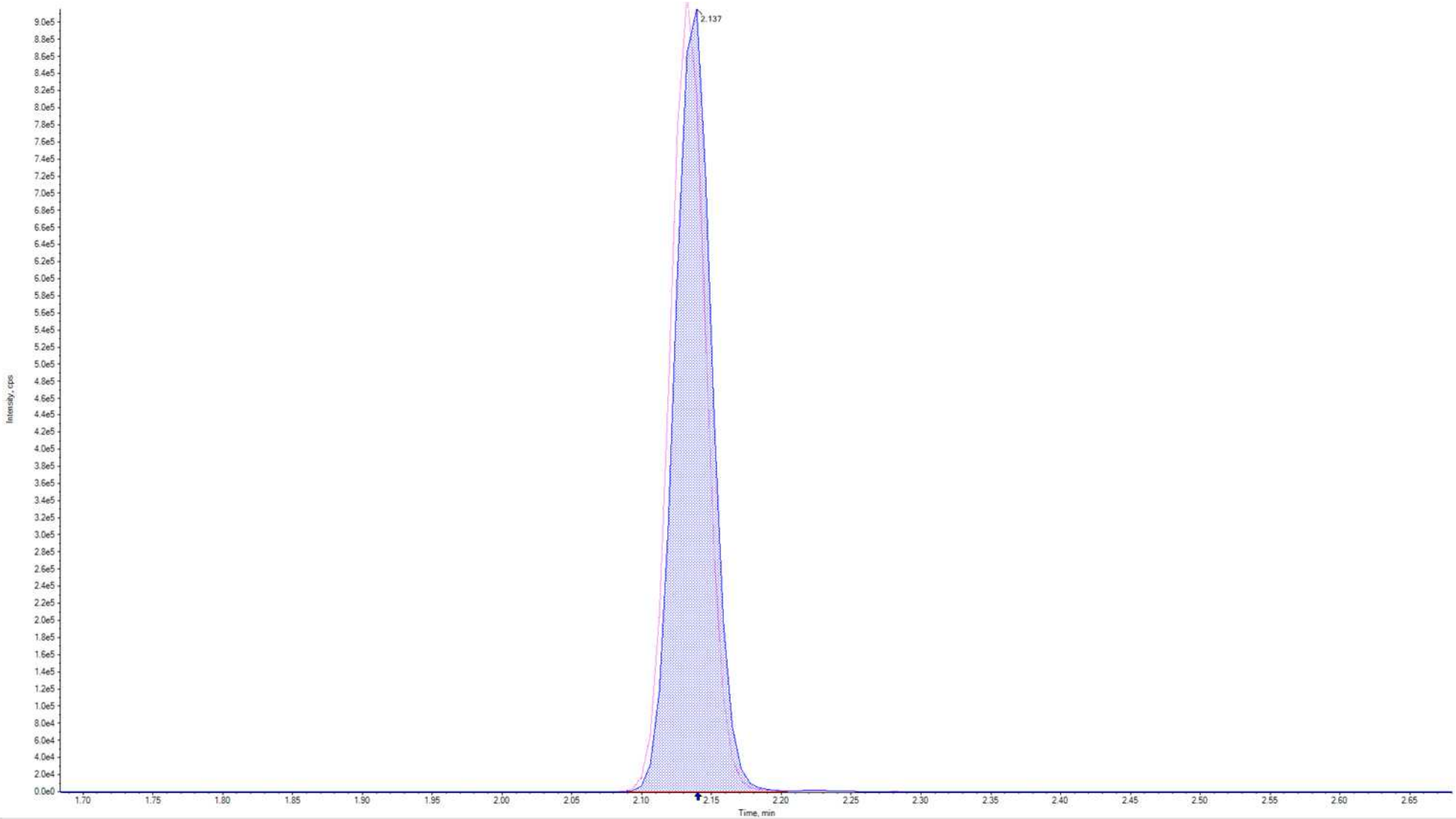
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Alpha Analytical LLC
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HFPO-DA
Sample: WG2038851-7,1633FMED S/N:4067.5 Points Across peak:32



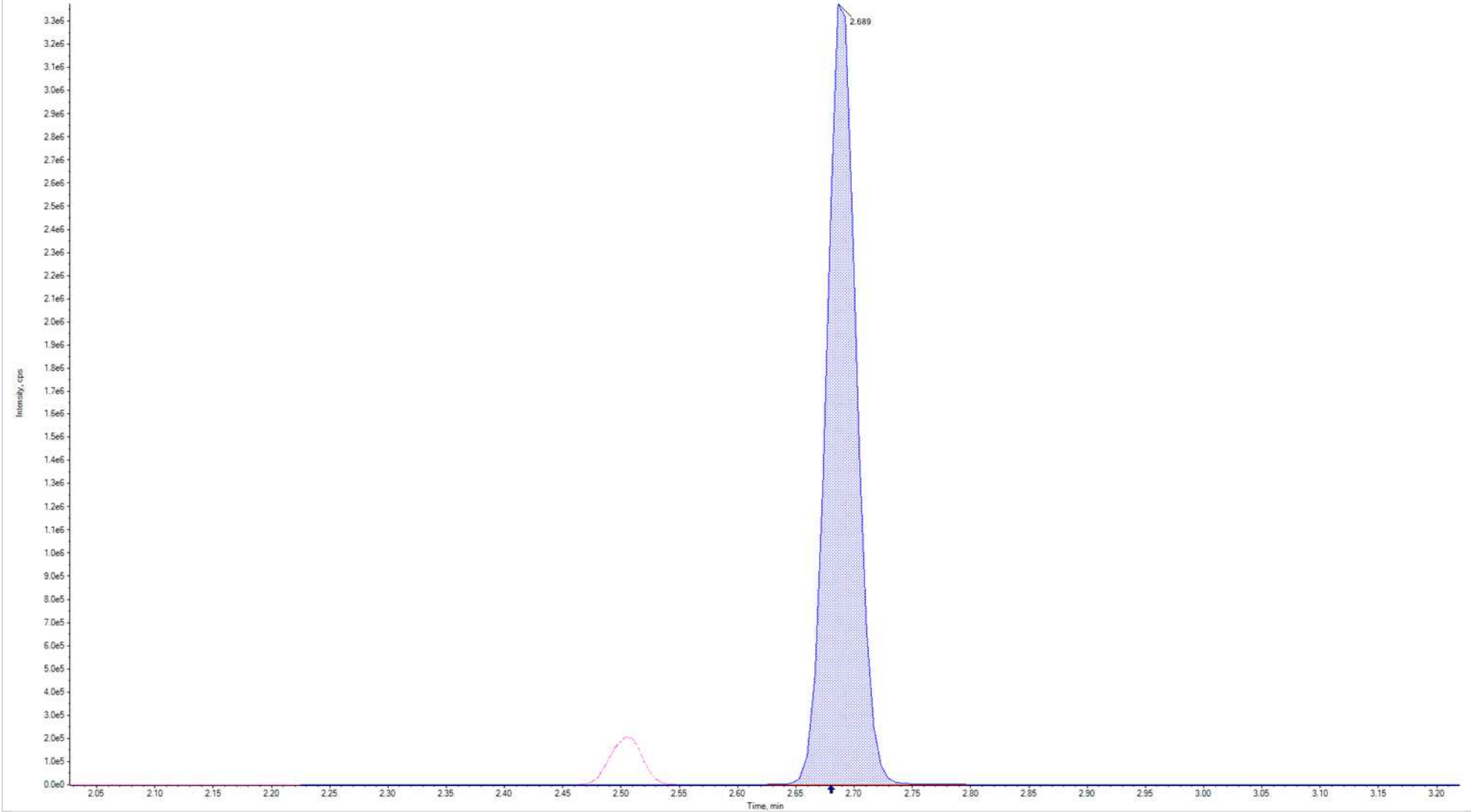
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Alpha Analytical LLC
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HFPO-DA_2
Sample: WG2038851-7,1633FMED S/N:20647.8 Points Across peak:21



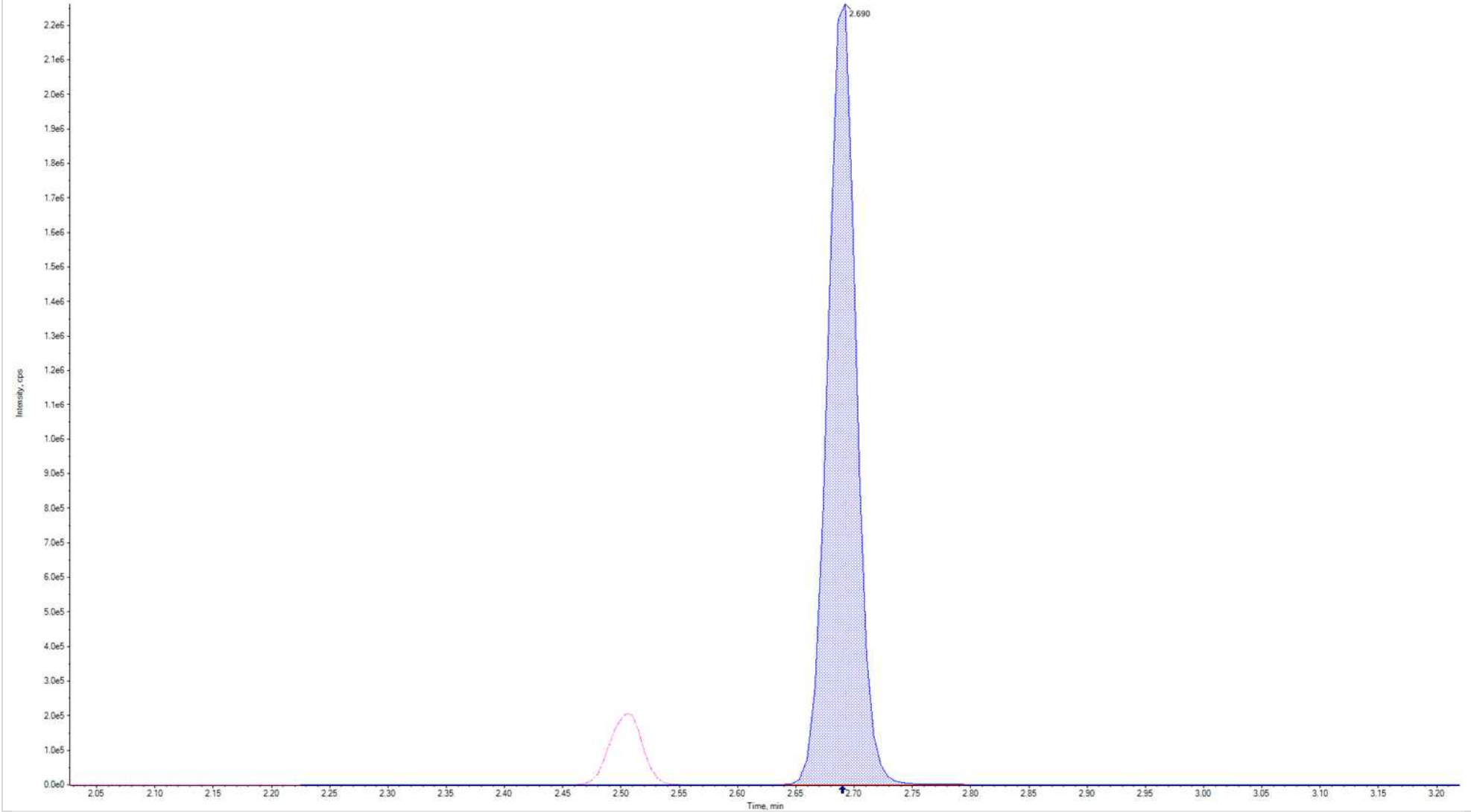
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Alpha Analytical LLC
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ADONA
Sample: WG2038851-7,1633FMED S/N:6120.7 Points Across peak:36



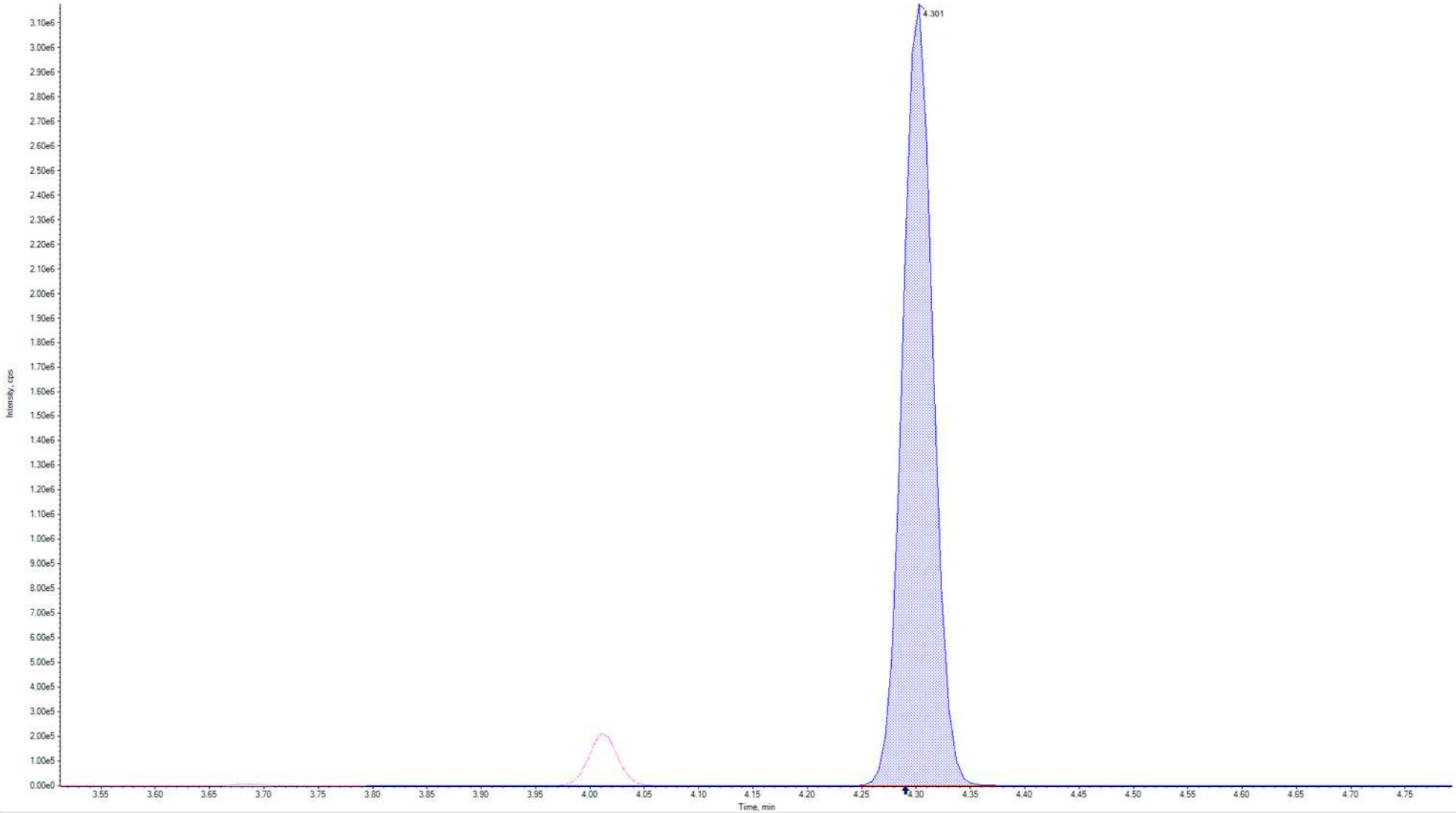
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Alpha Analytical LLC
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ADONA_2
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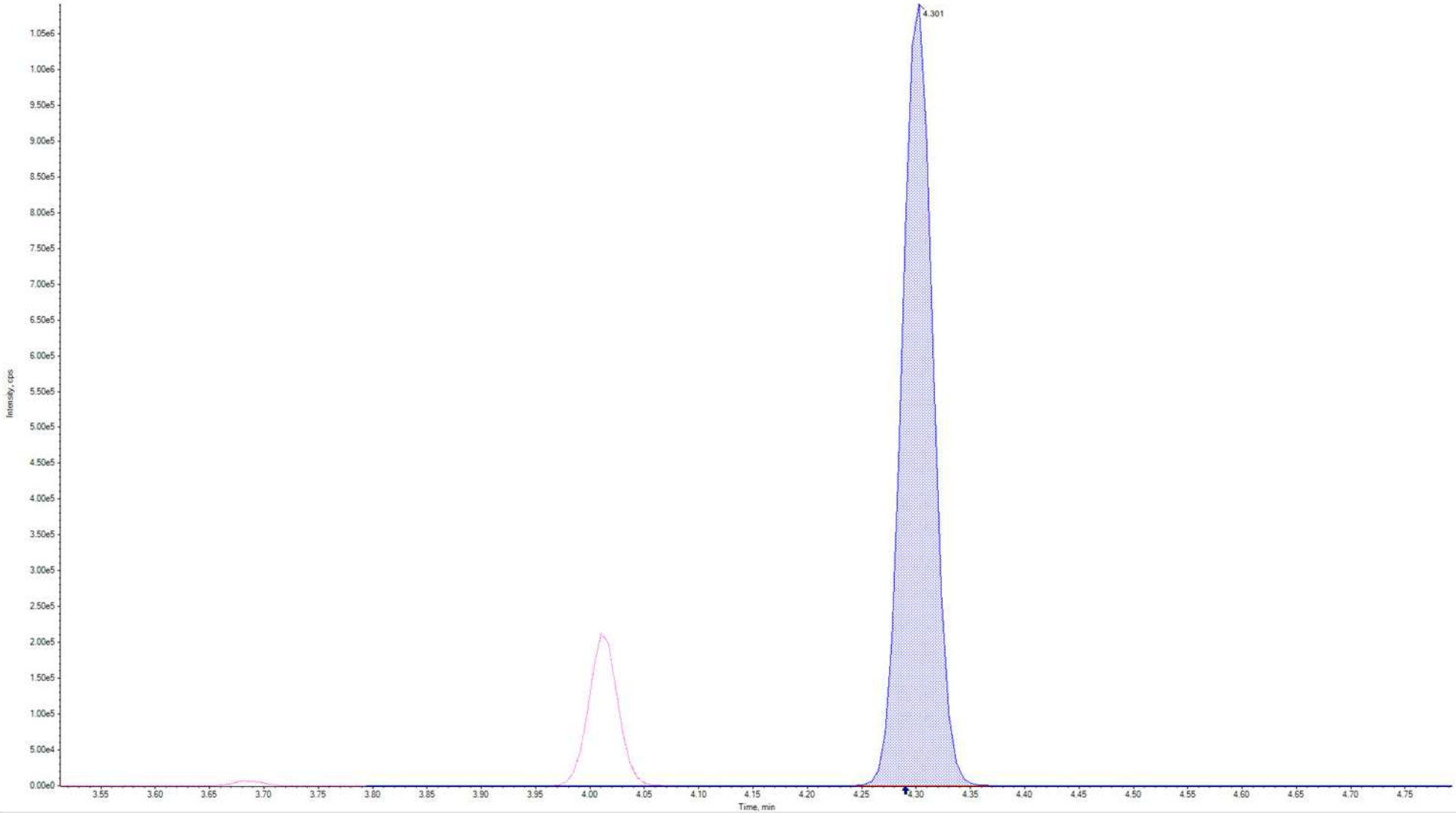
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Alpha Analytical LLC
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9Cl-PF3ONS
Sample: WG2038851-7,1633FMED S/N:12252.6 Points Across peak:38



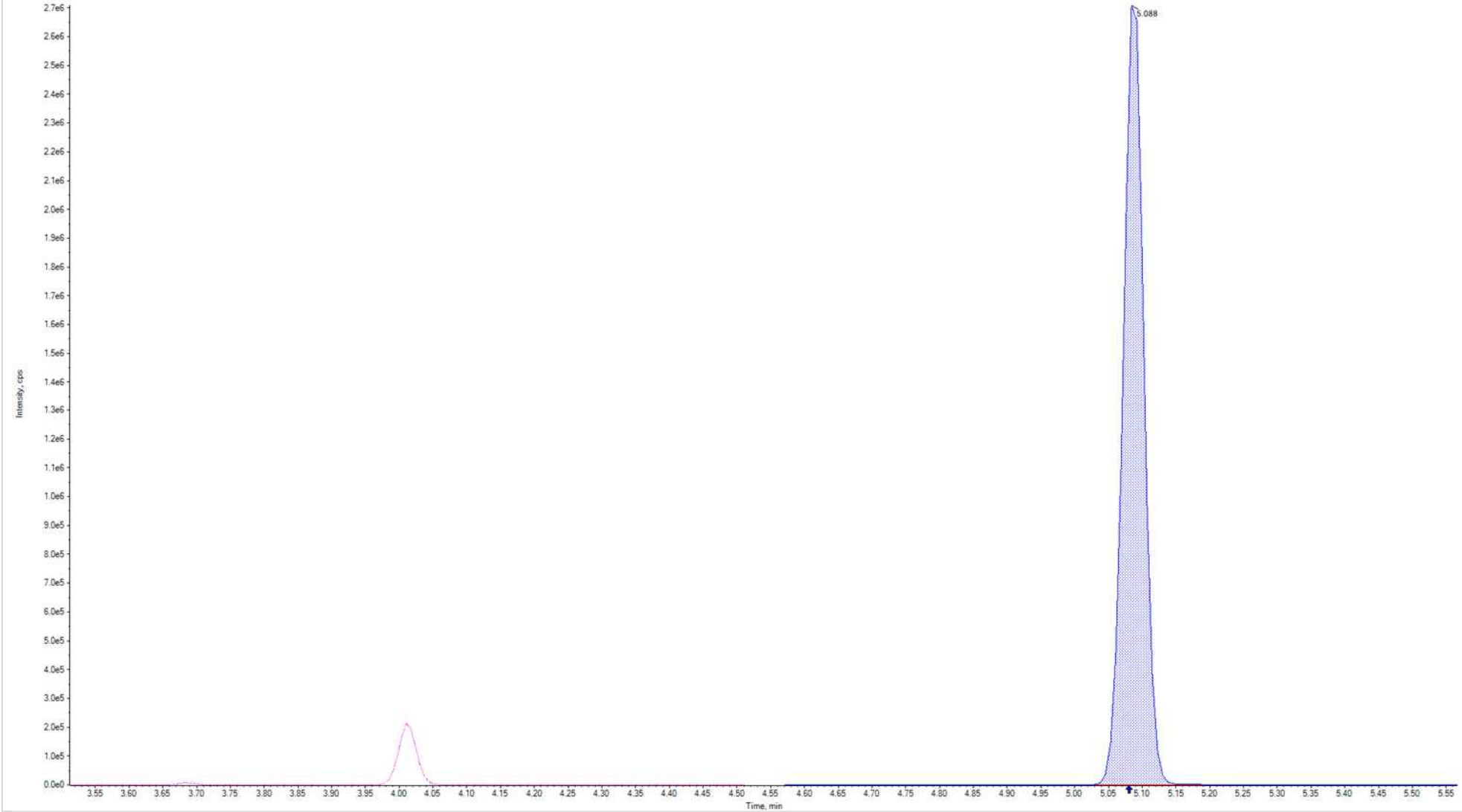
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9Cl-PF3ONS_2
Sample: WG2038851-7,1633FMED S/N:10294.6 Points Across peak:30



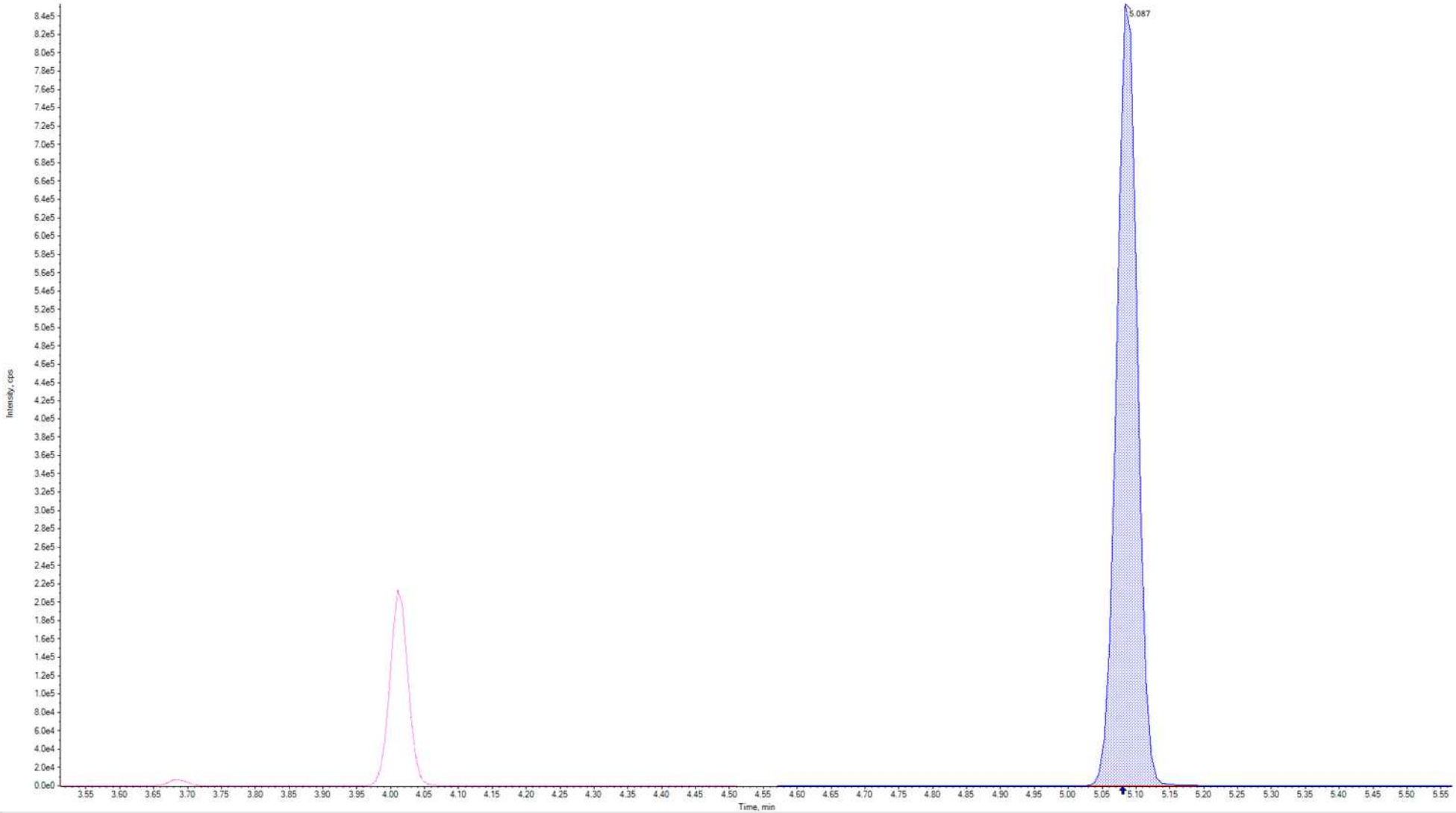
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11Cl-PF3OUdS
Sample: WG2038851-7,1633FMED S/N:129011.9 Points Across peak:31



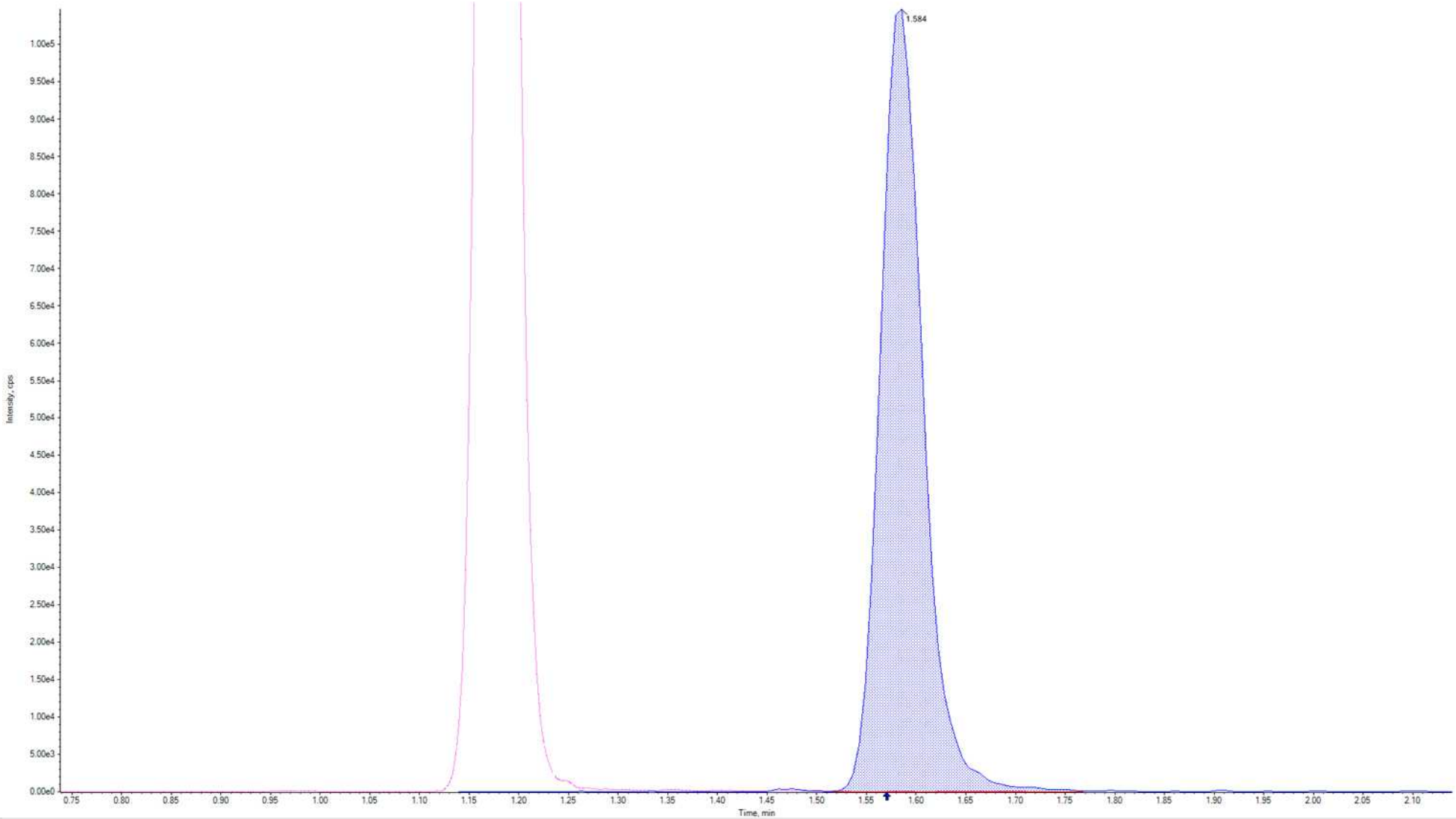
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11Cl-PF3OUdS_2
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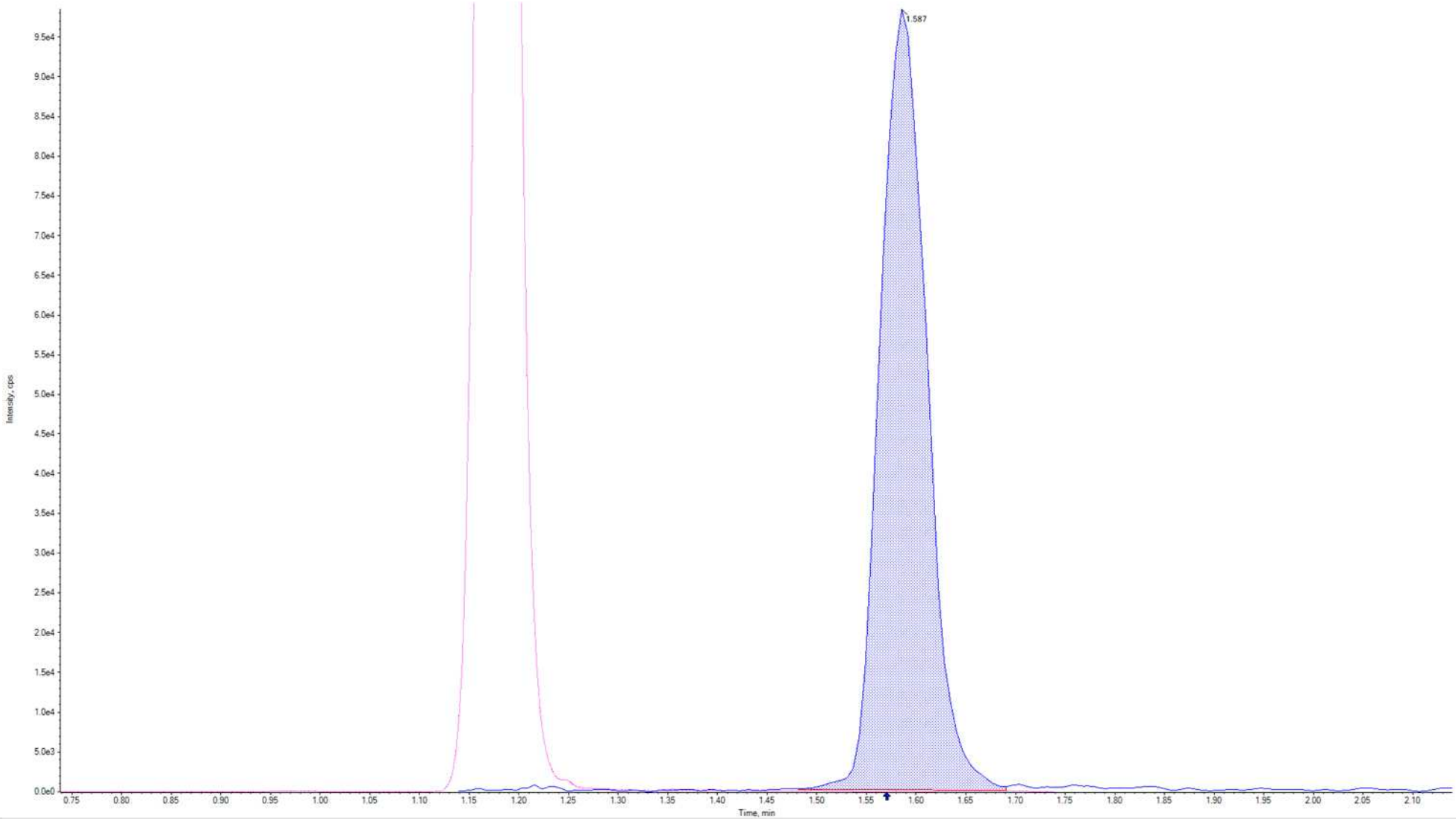
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3:3FTCA
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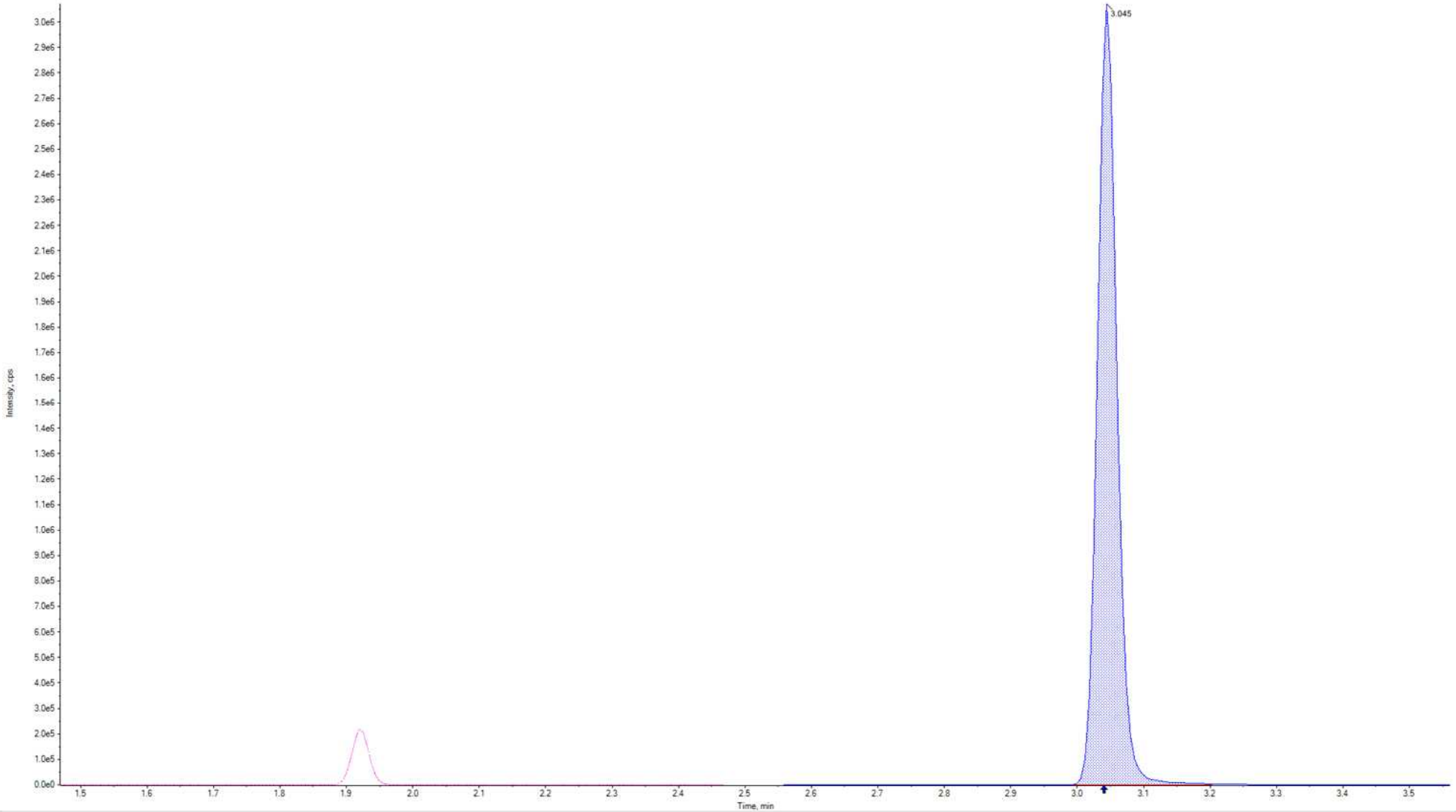
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3:3FTCA_2
Sample: WG2038851-7,1633FMED S/N:2462.9 Points Across peak:35



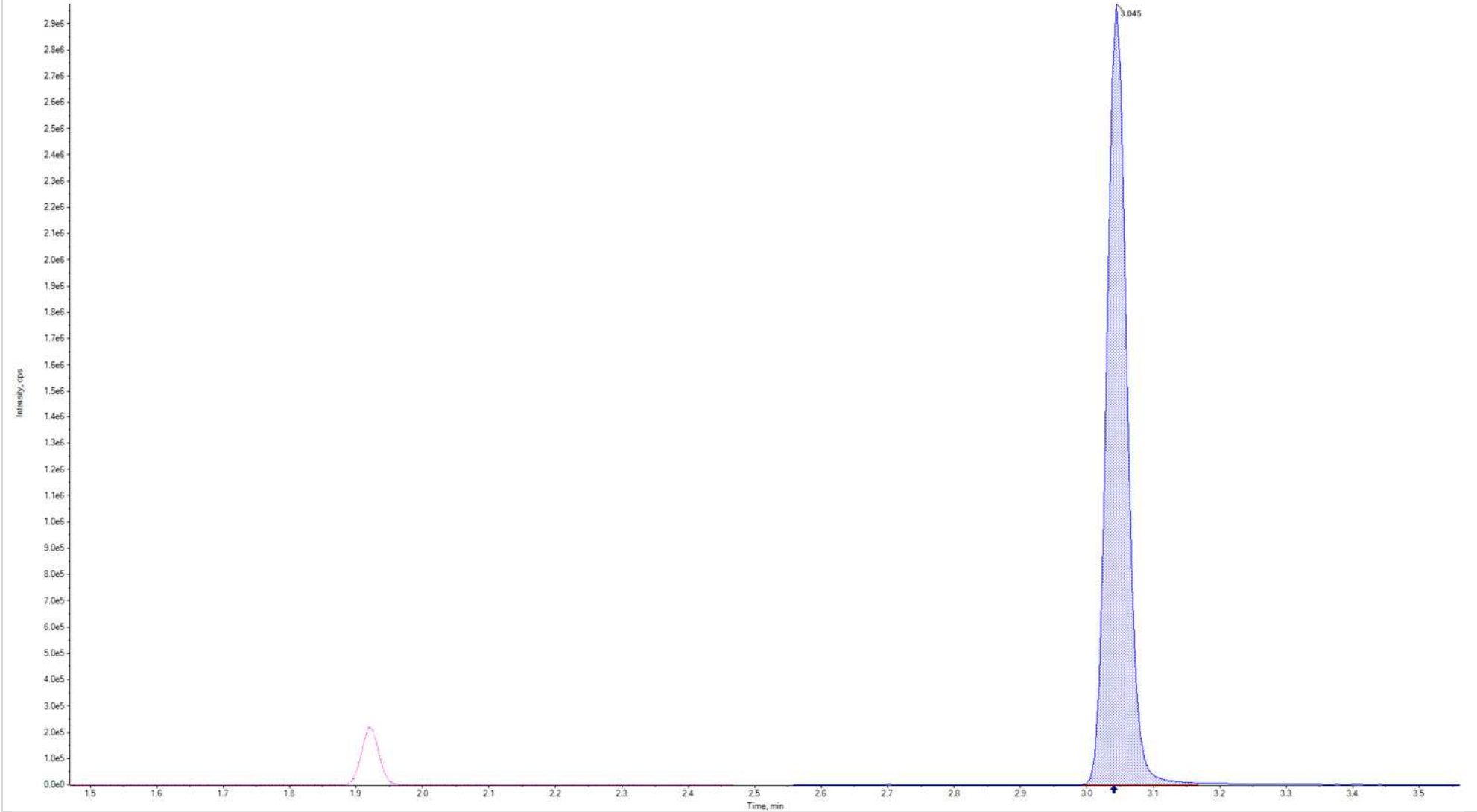
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5:3FTCA
Sample: WG2038851-7,1633FMED S/N:15737.1 Points Across peak:41



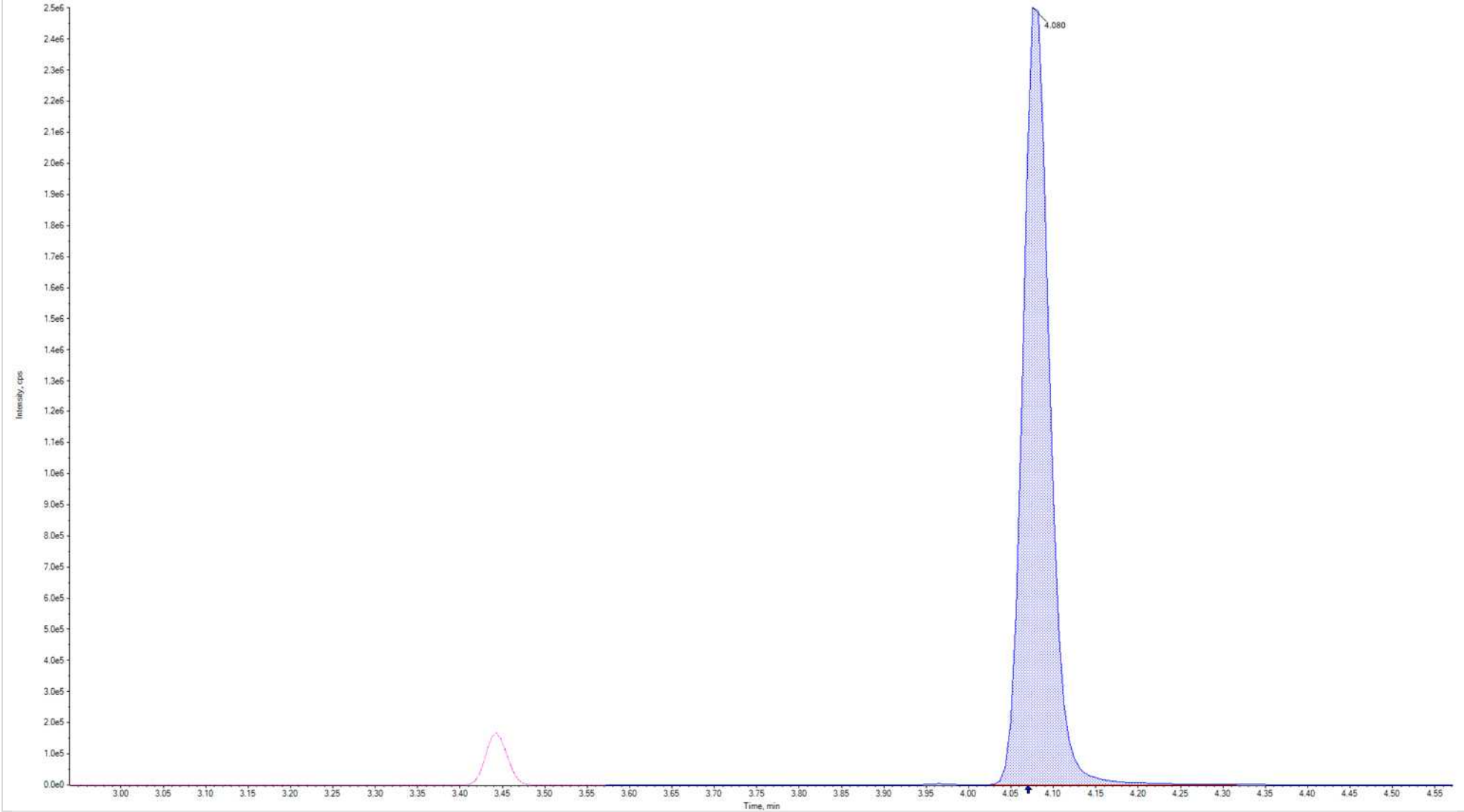
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5:3FTCA_2
Sample: WG2038851-7,1633FMED S/N:6887.2 Points Across peak:32



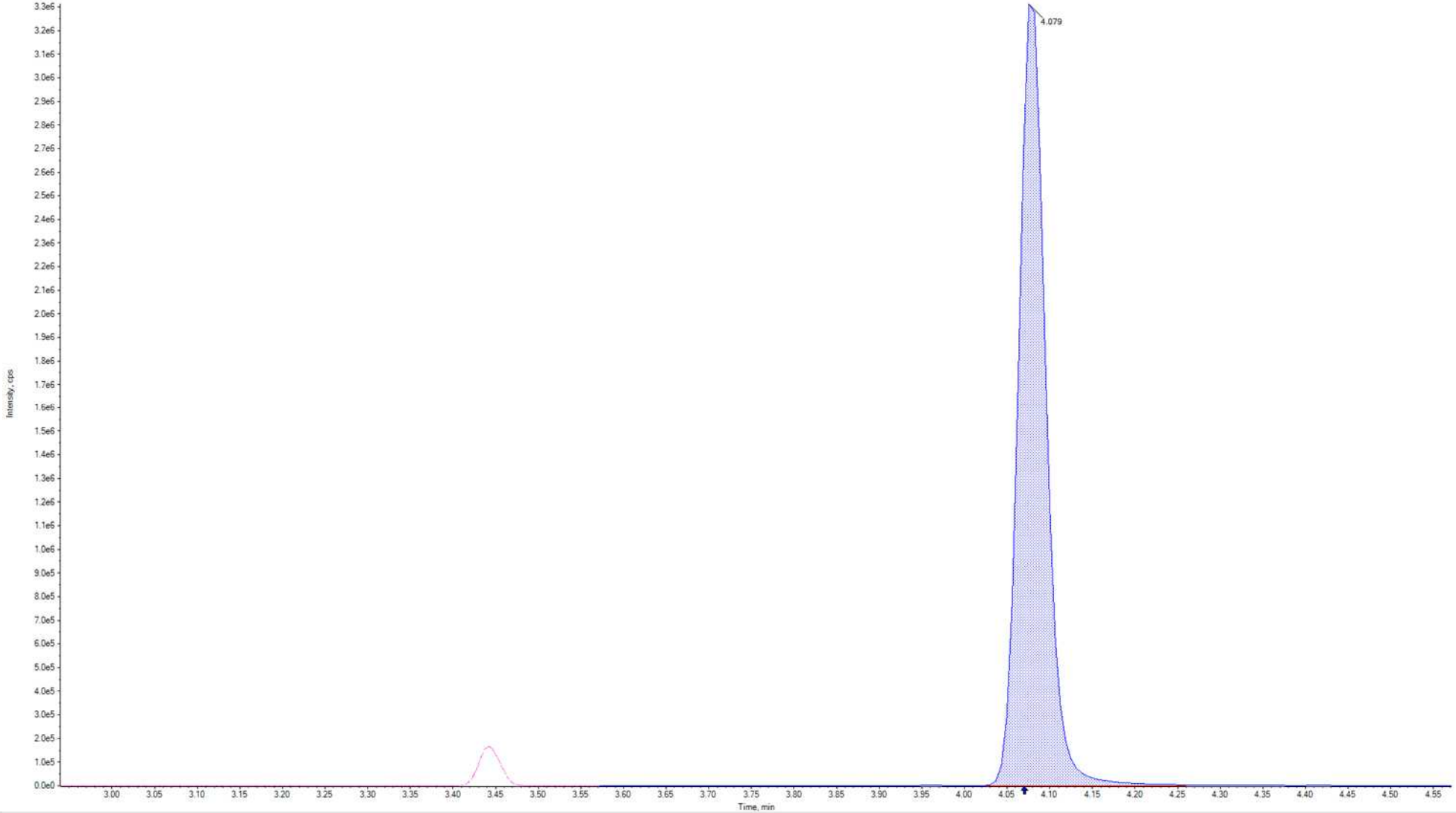
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7:3FTCA
Sample: WG2038851-7,1633FMED S/N:68955.8 Points Across peak:50



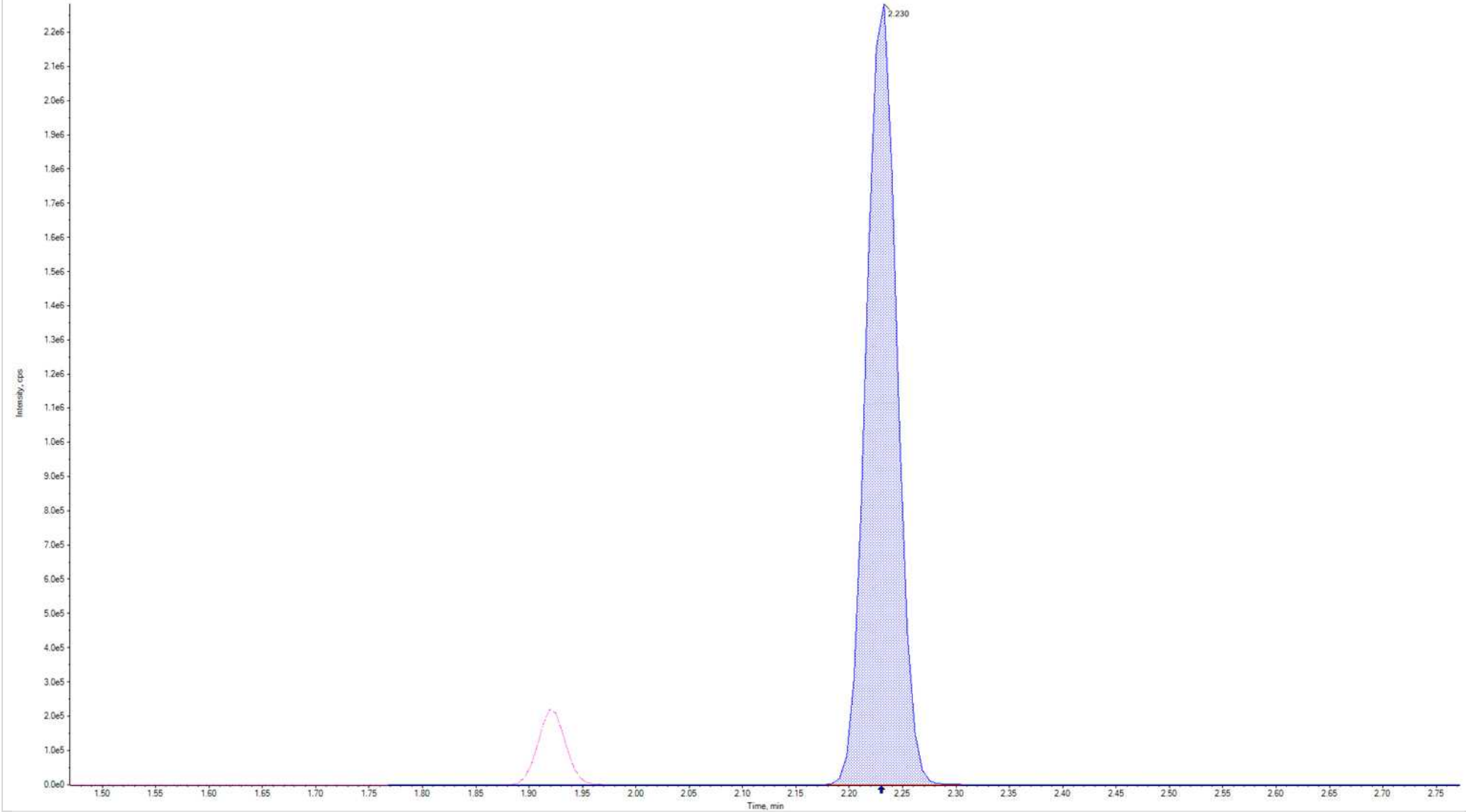
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7:3FTCA_2
Sample: WG2038851-7,1633FMED S/N:91340.6 Points Across peak:41



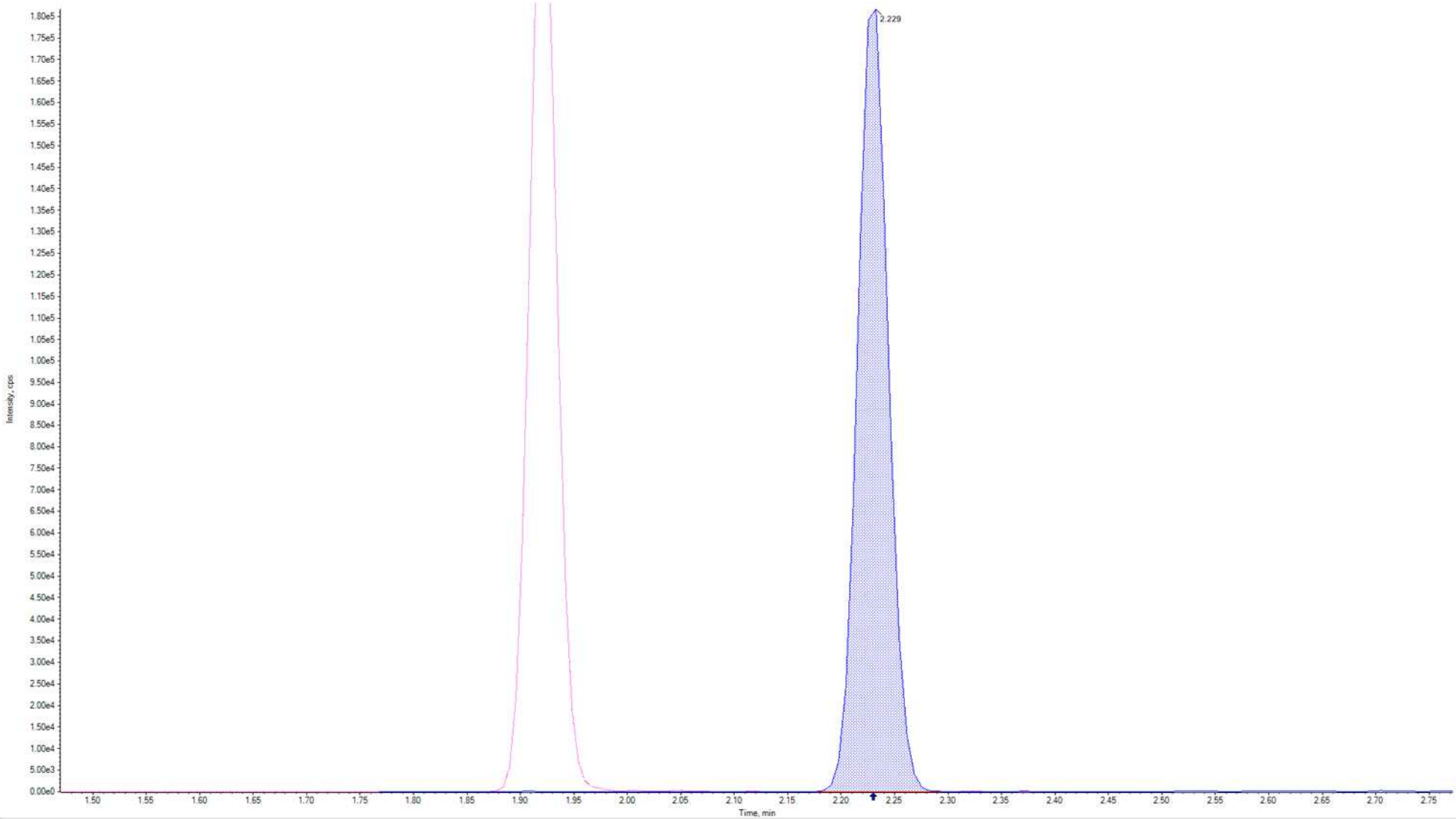
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Alpha Analytical LLC
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PFEESA
Sample: WG2038851-7,1633FMED S/N:11032.7 Points Across peak:31

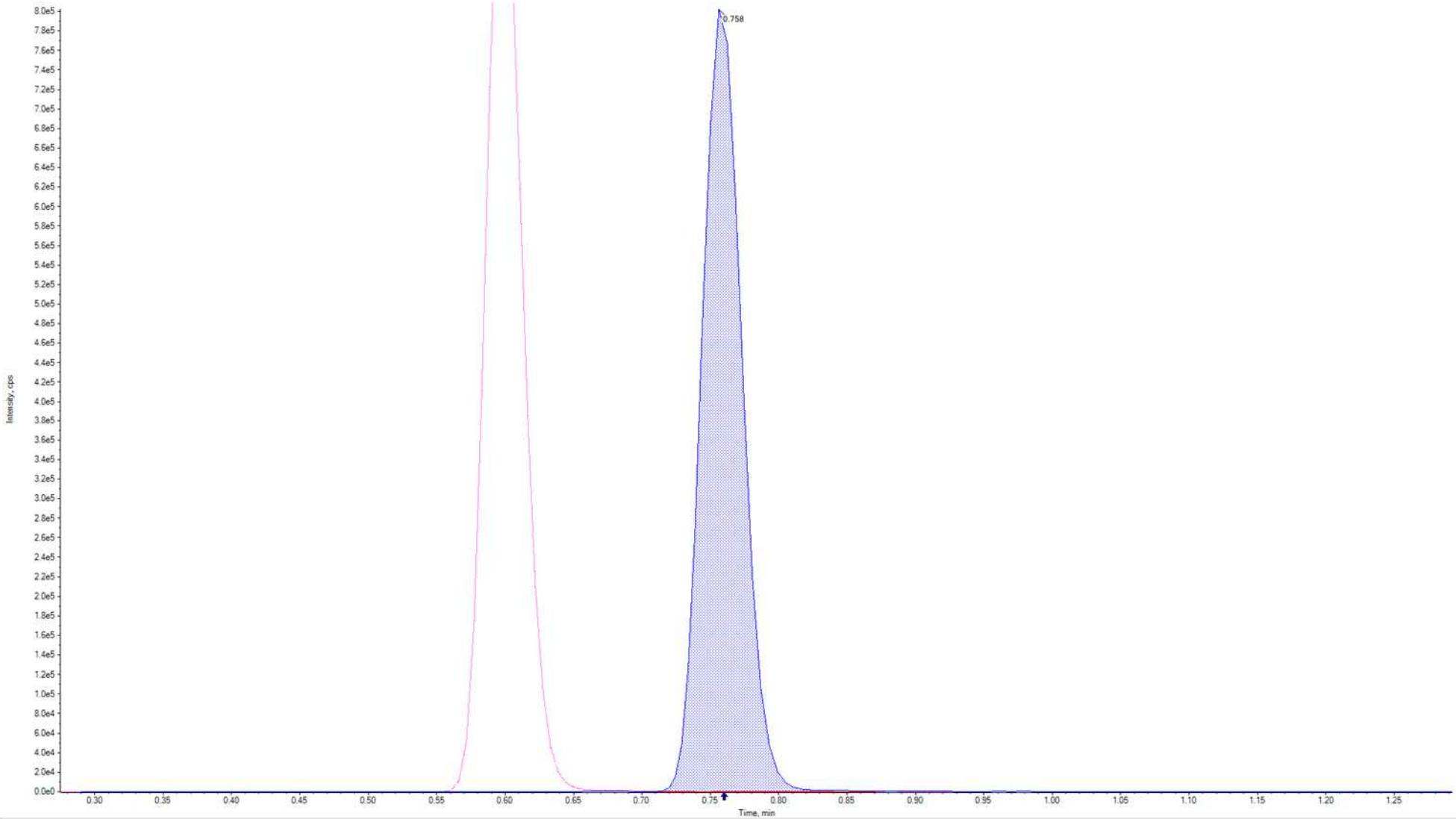


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFEESA_2
Sample: WG2038851-7,1633FMED S/N:3179.7 Points Across peak:27

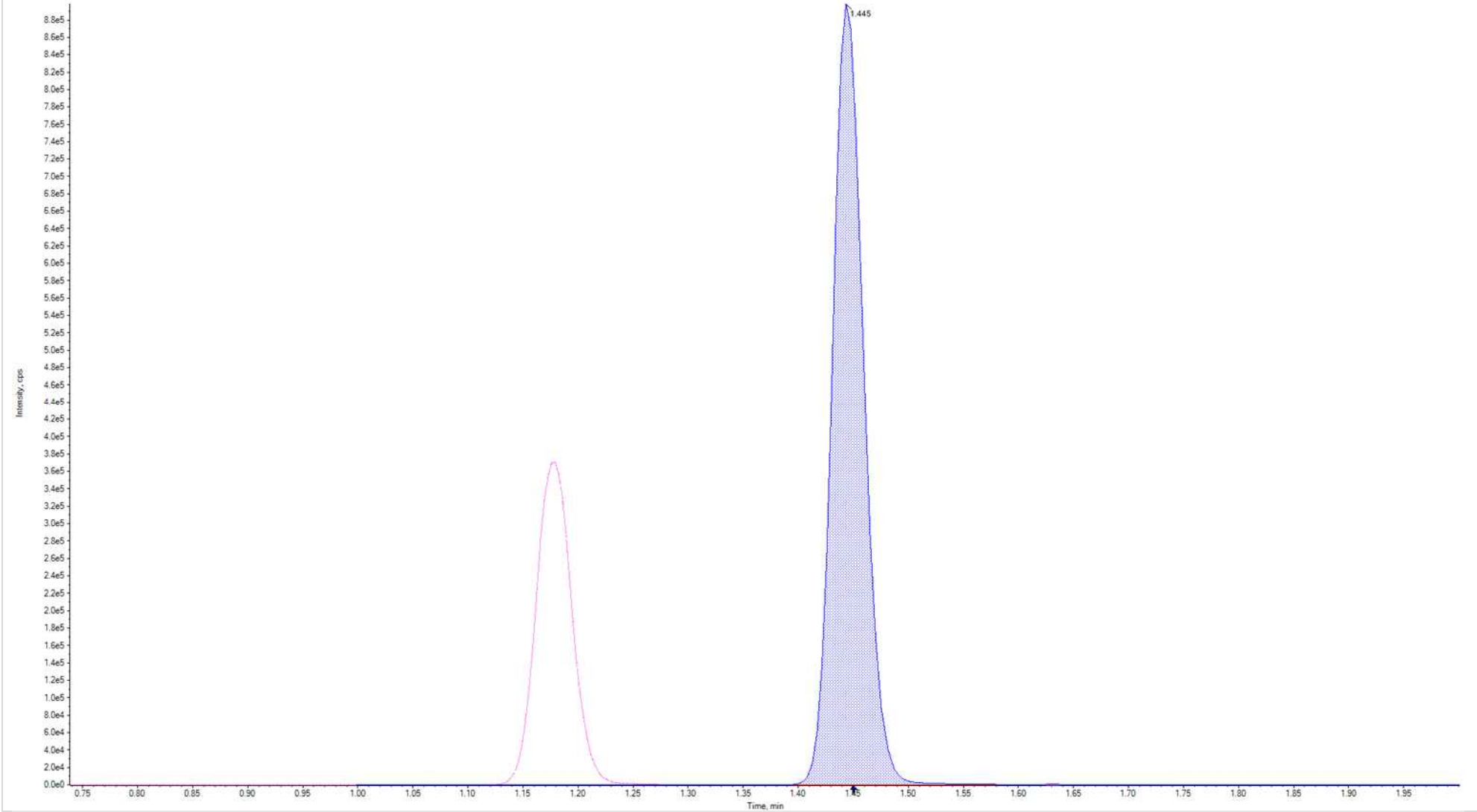


PFMPA
Sample: WG2038851-7,1633FMED S/N:15048.3 Points Across peak:31



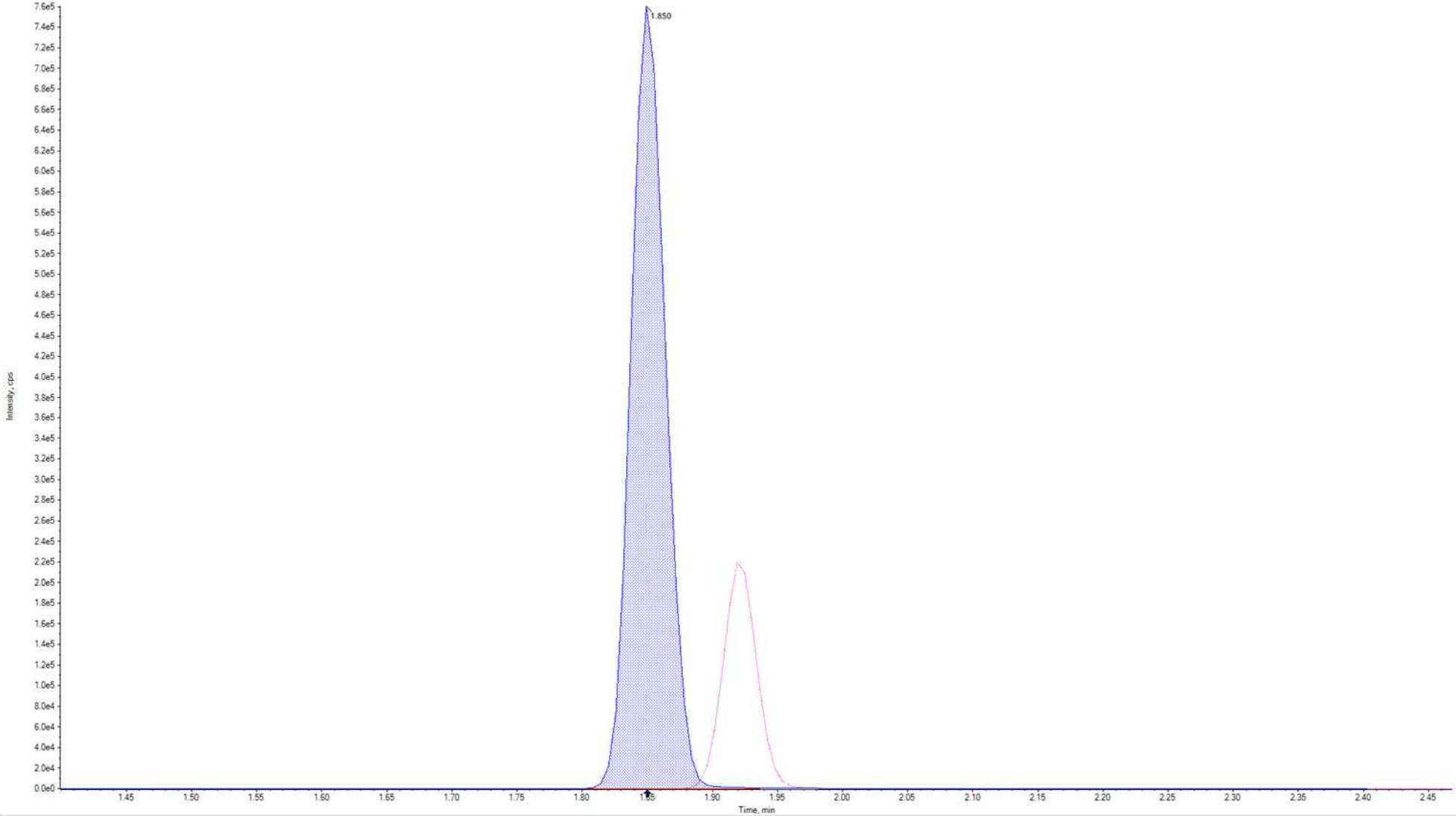
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Alpha Analytical LLC
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Last Altered: 3/11/2025 2:07:22 PM
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PFMBA
Sample: WG2038851-7,1633FMED S/N:51797.3 Points Across peak:42



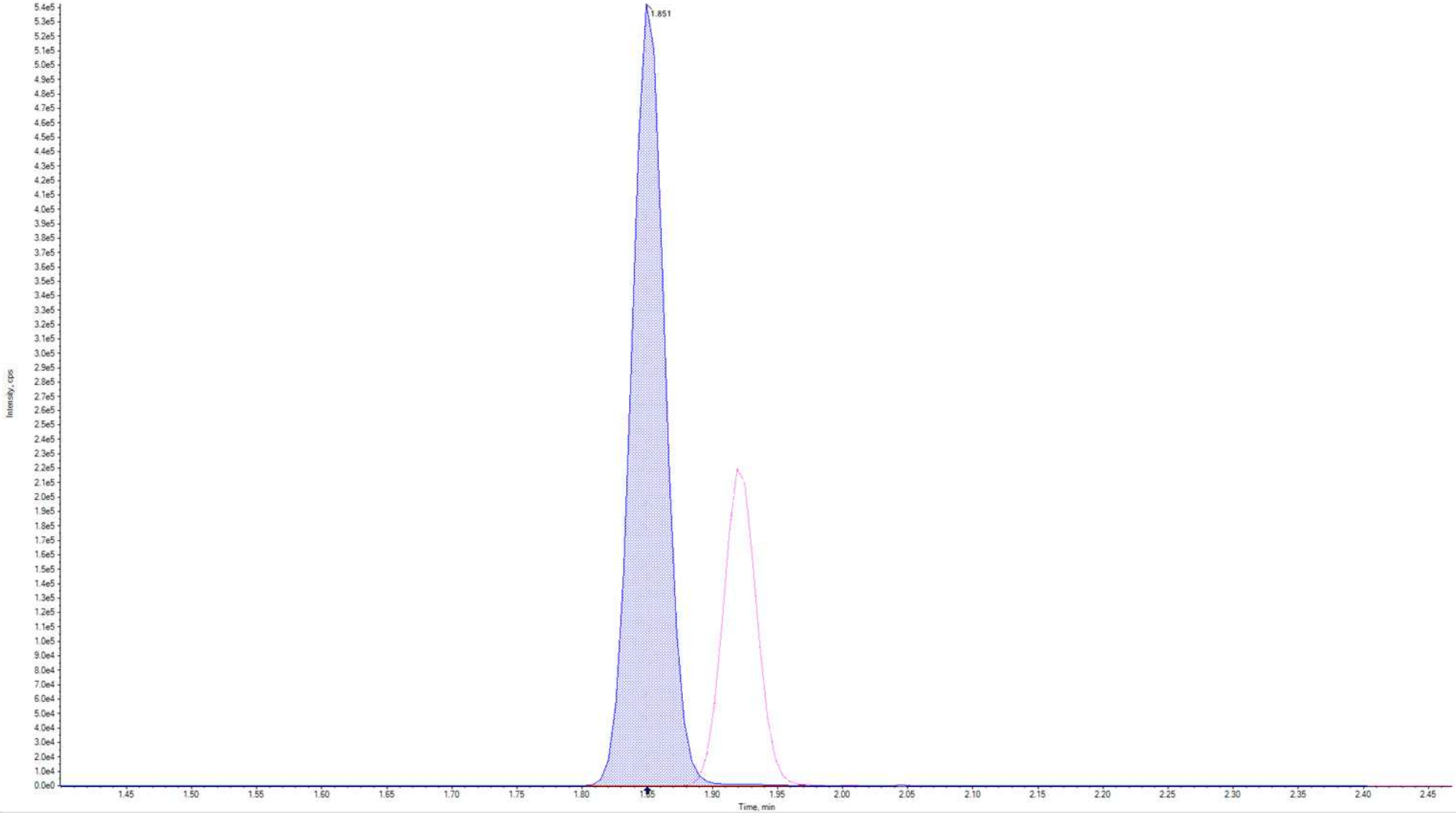
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NFDHA
Sample: WG2038851-7,1633FMED S/N:7252.8 Points Across peak:27



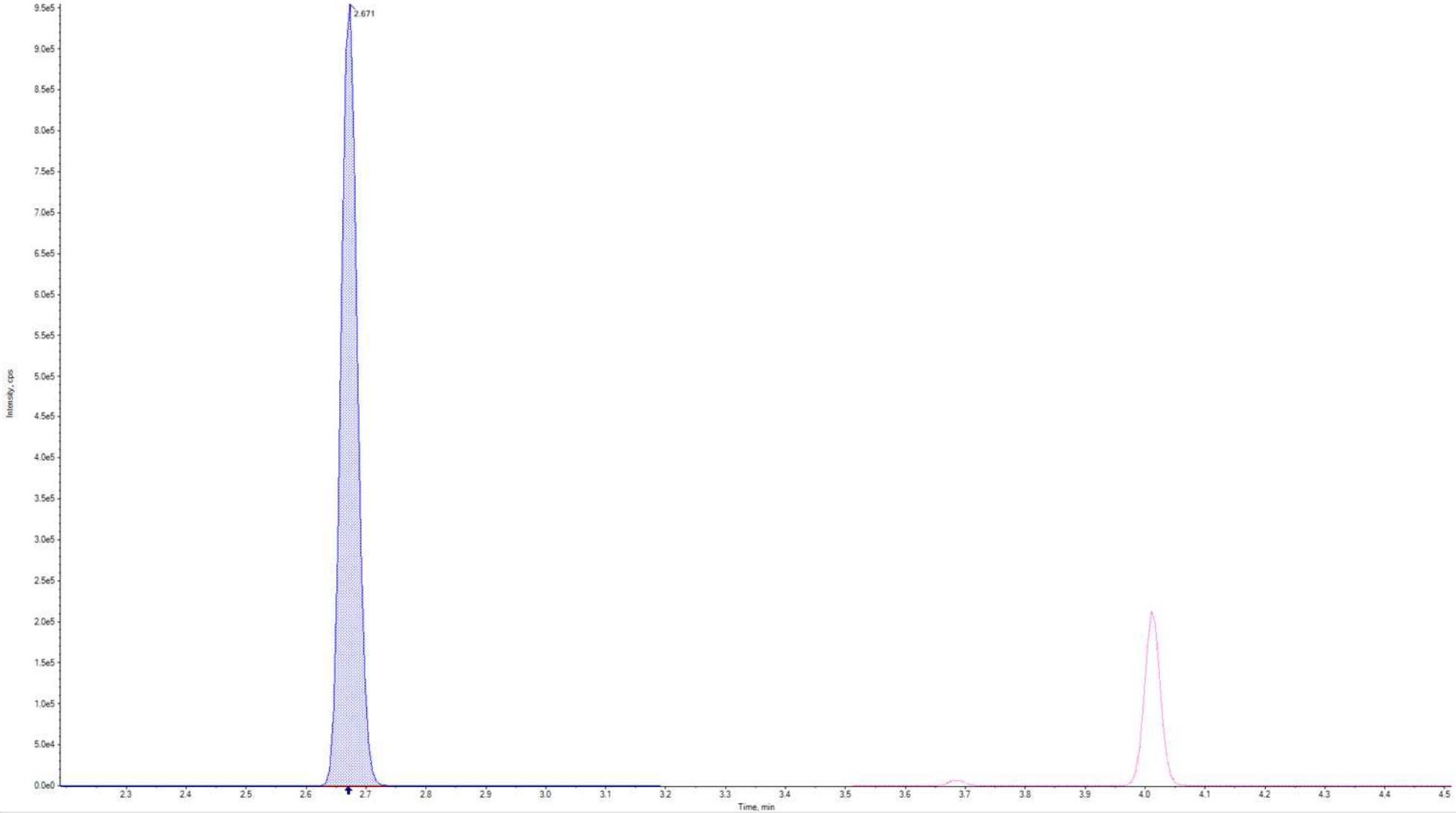
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NFDHA_2
Sample: WG2038851-7,1633FMED S/N:14956.9 Points Across peak:37



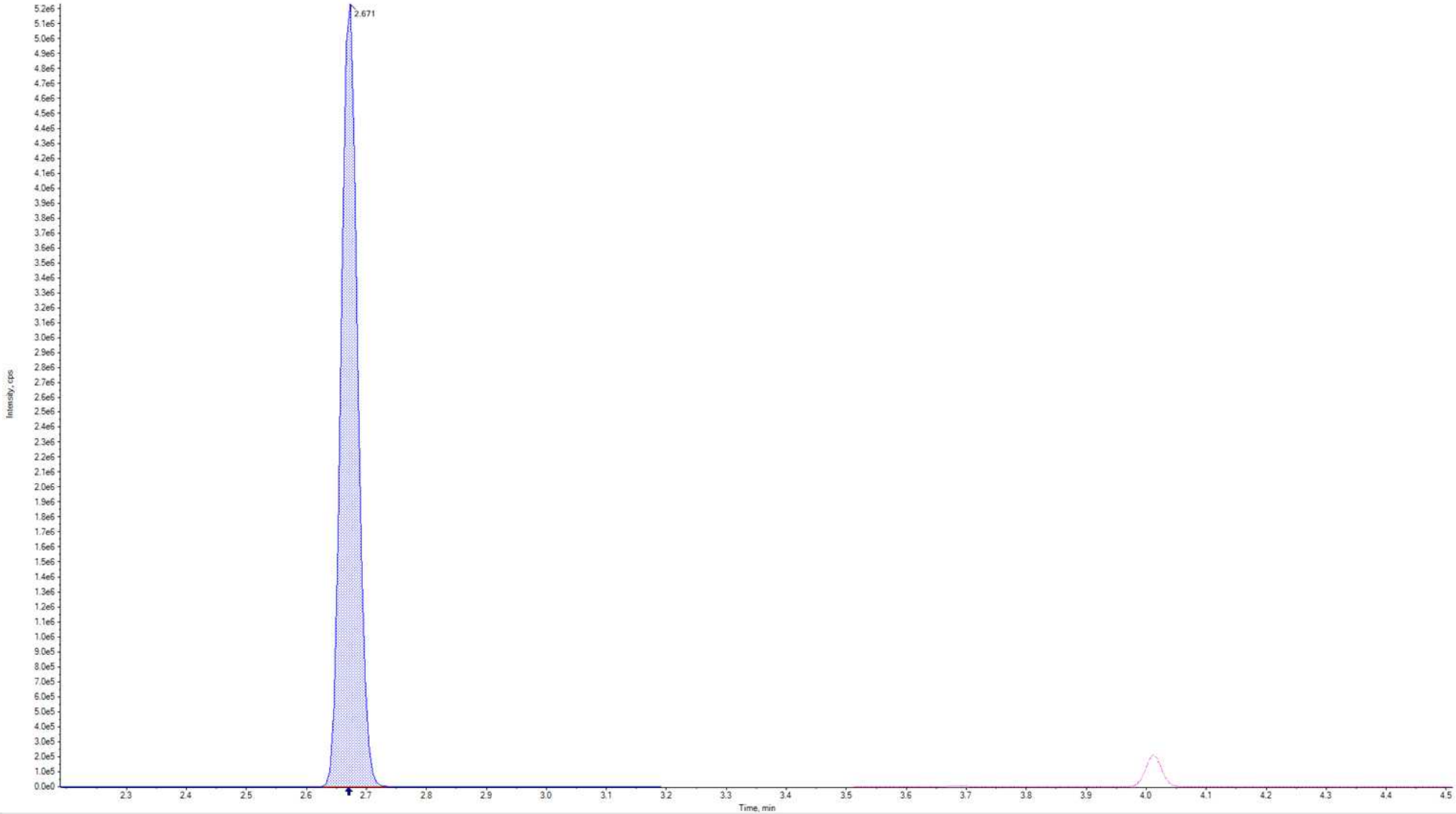
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TDCA
Sample: WG2038851-7,1633FMED S/N:19149.0 Points Across peak:31



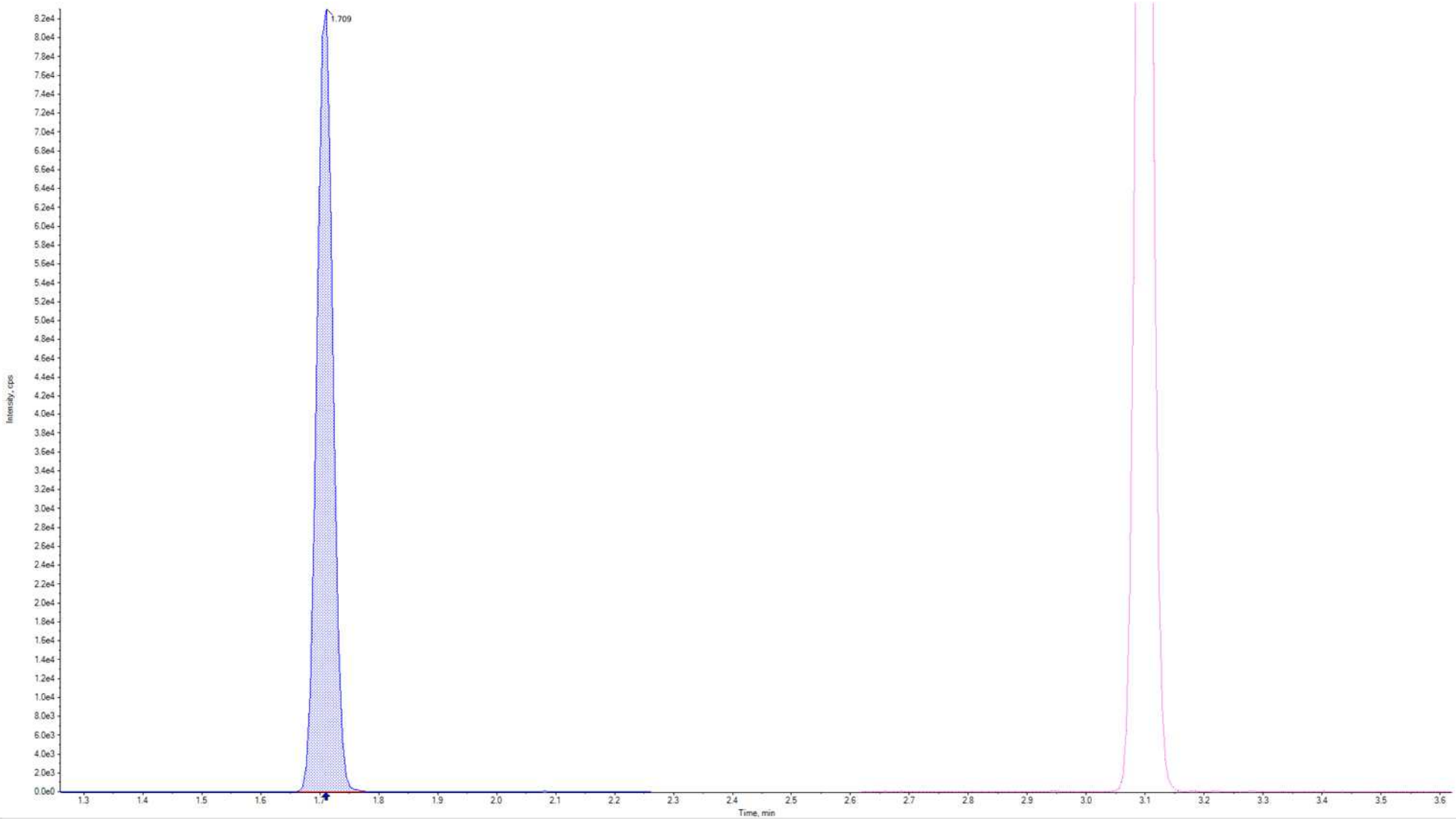
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Alpha Analytical LLC
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TDCA_2
Sample: WG2038851-7,1633FMED S/N:8418.7 Points Across peak:28



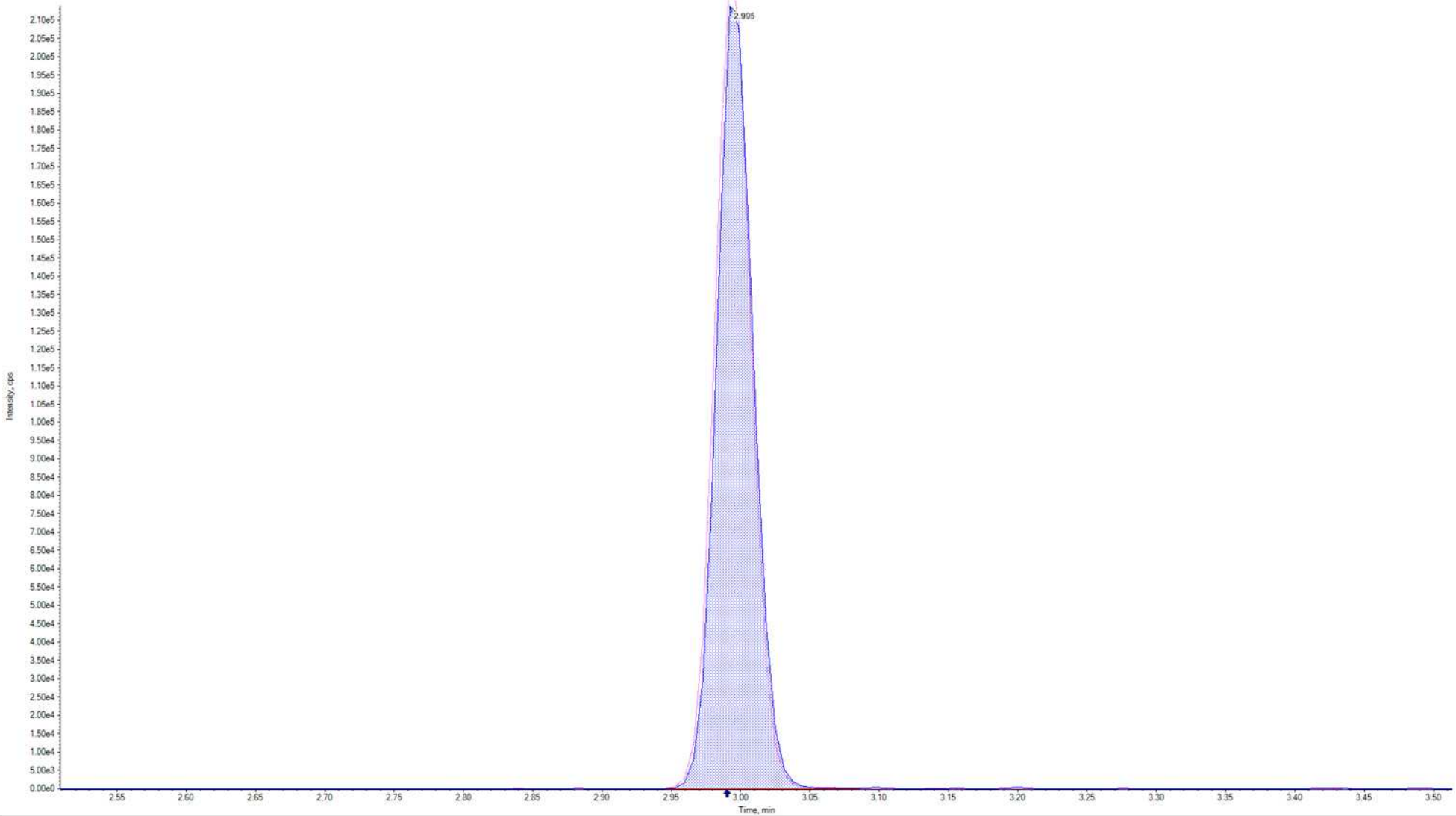
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13C2D4-4:2FTS
Sample: WG2038851-7,1633FMED S/N:2917.6 Points Across peak:25

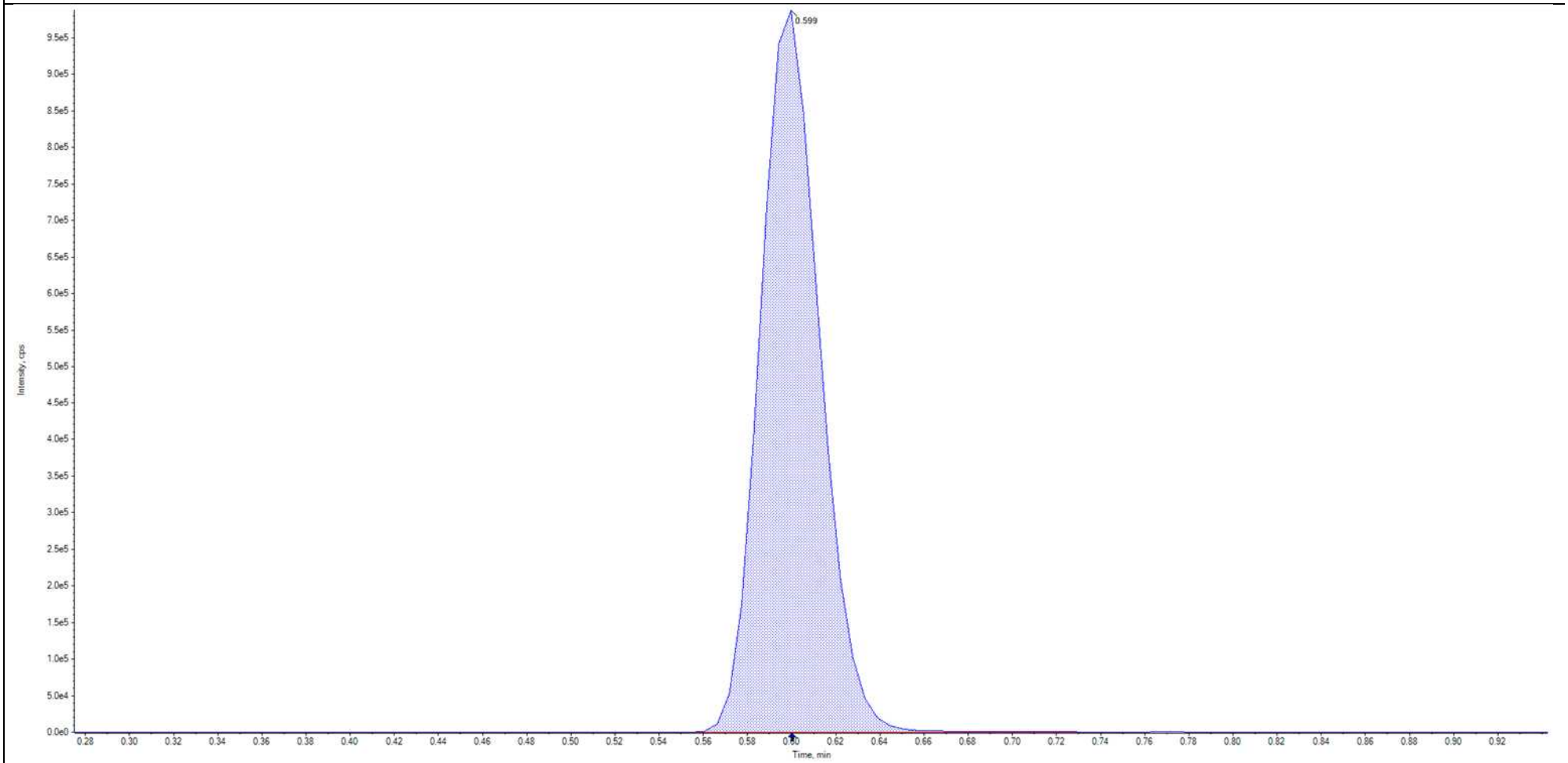


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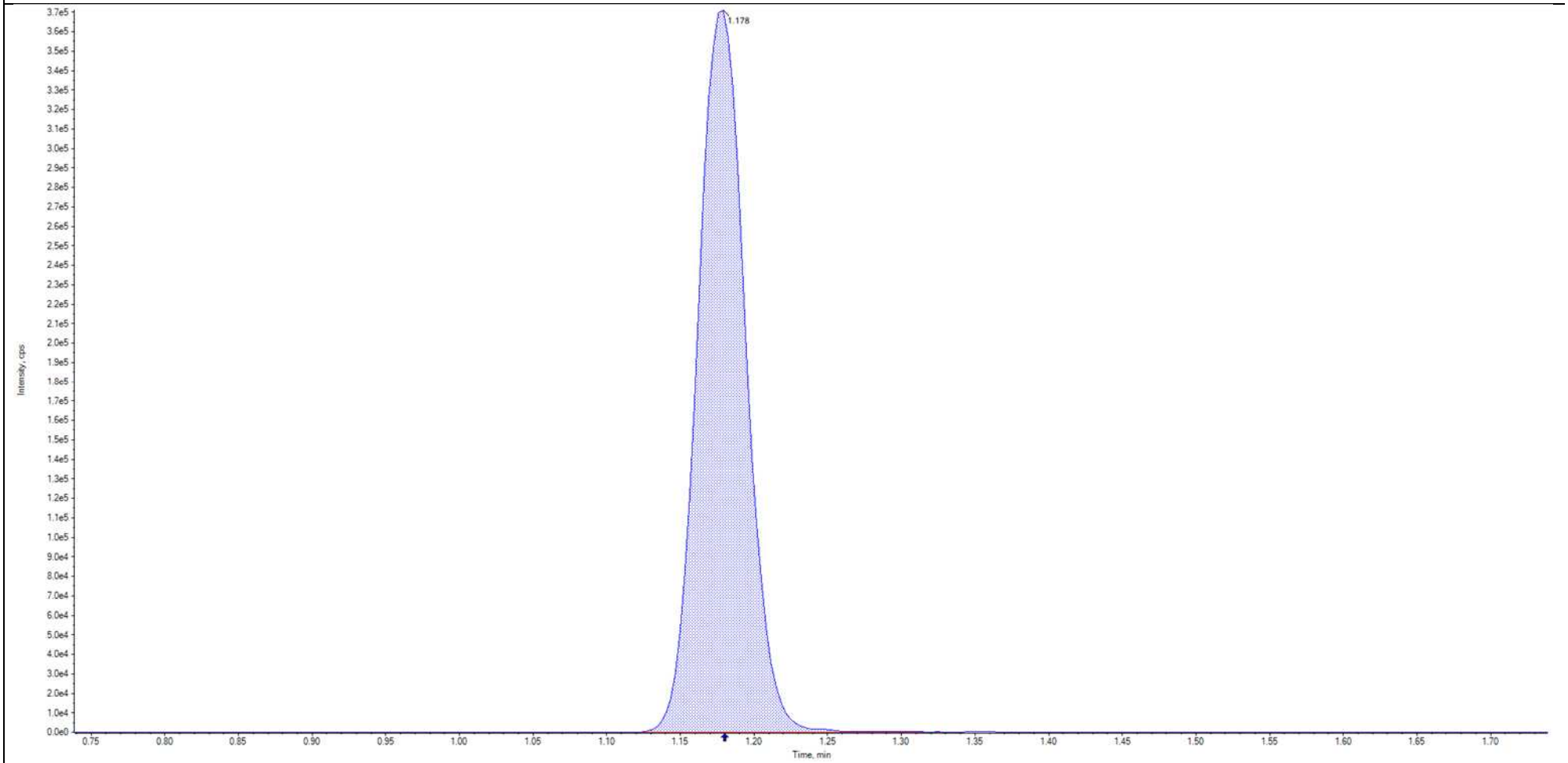
13C2-PFOA
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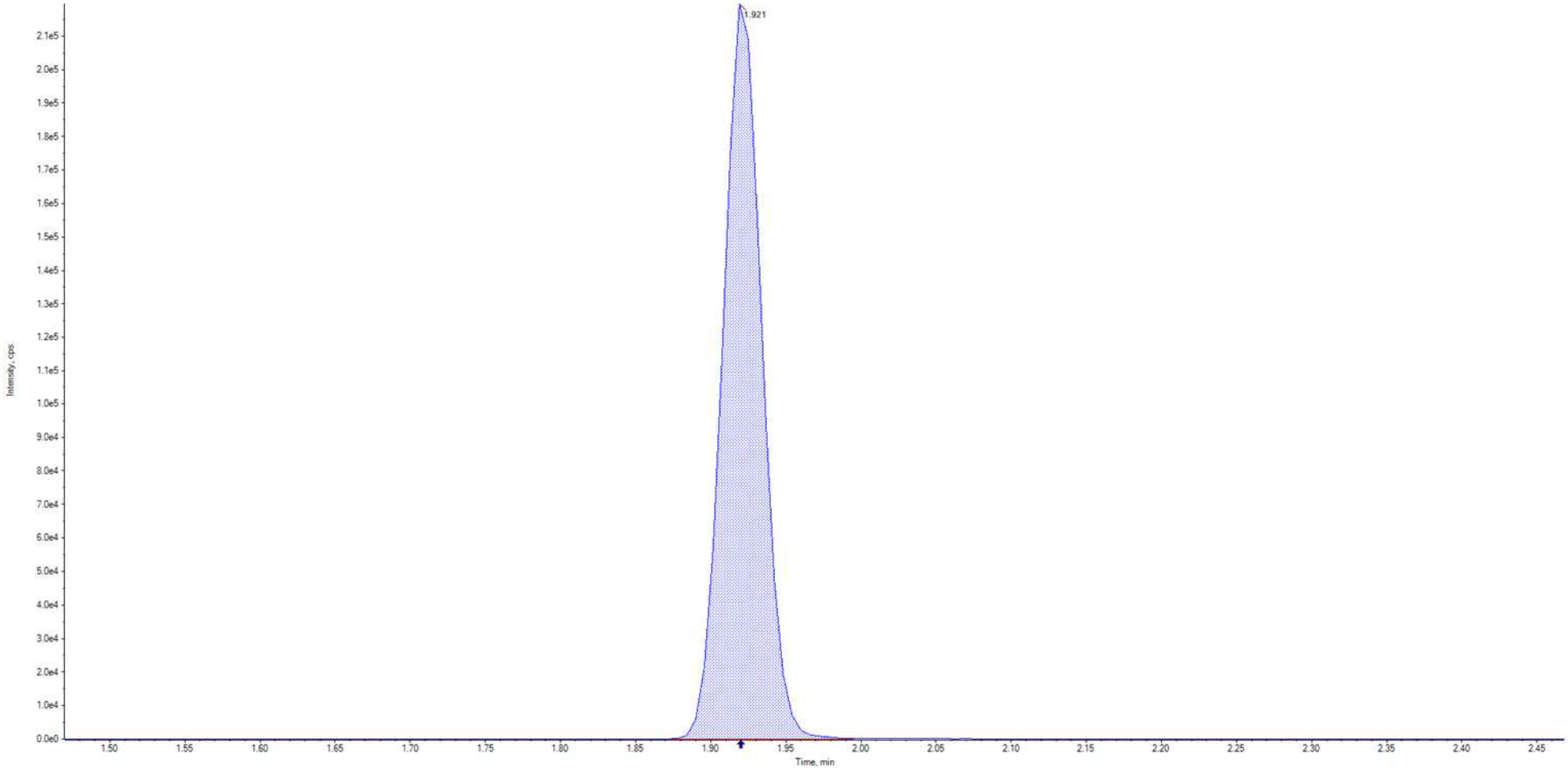
13C4-PFBA
Sample: WG2038851-7,1633FMED



13C5-PFPeA
Sample: WG2038851-7,1633FMED

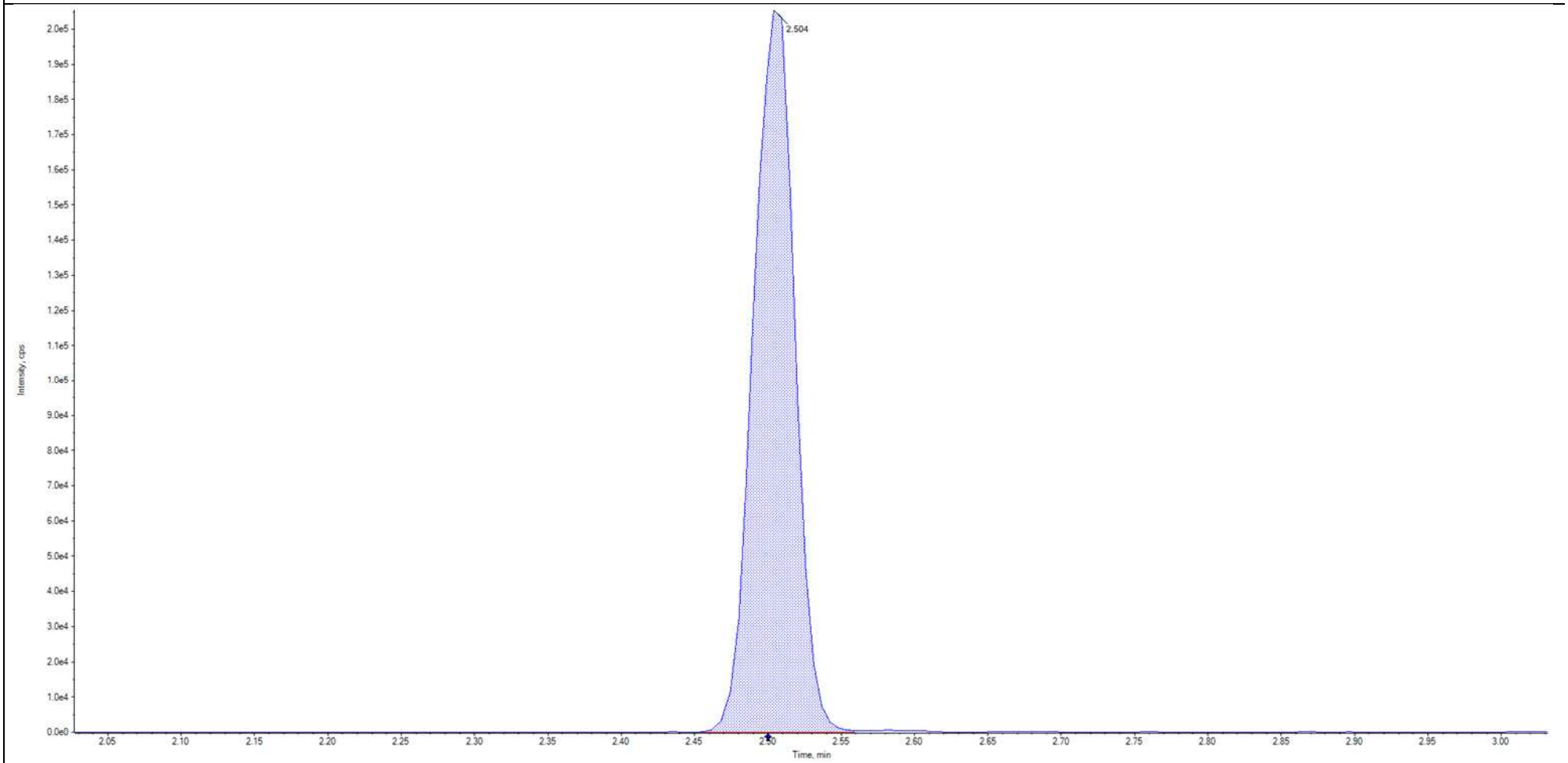


13C5-PFHxA
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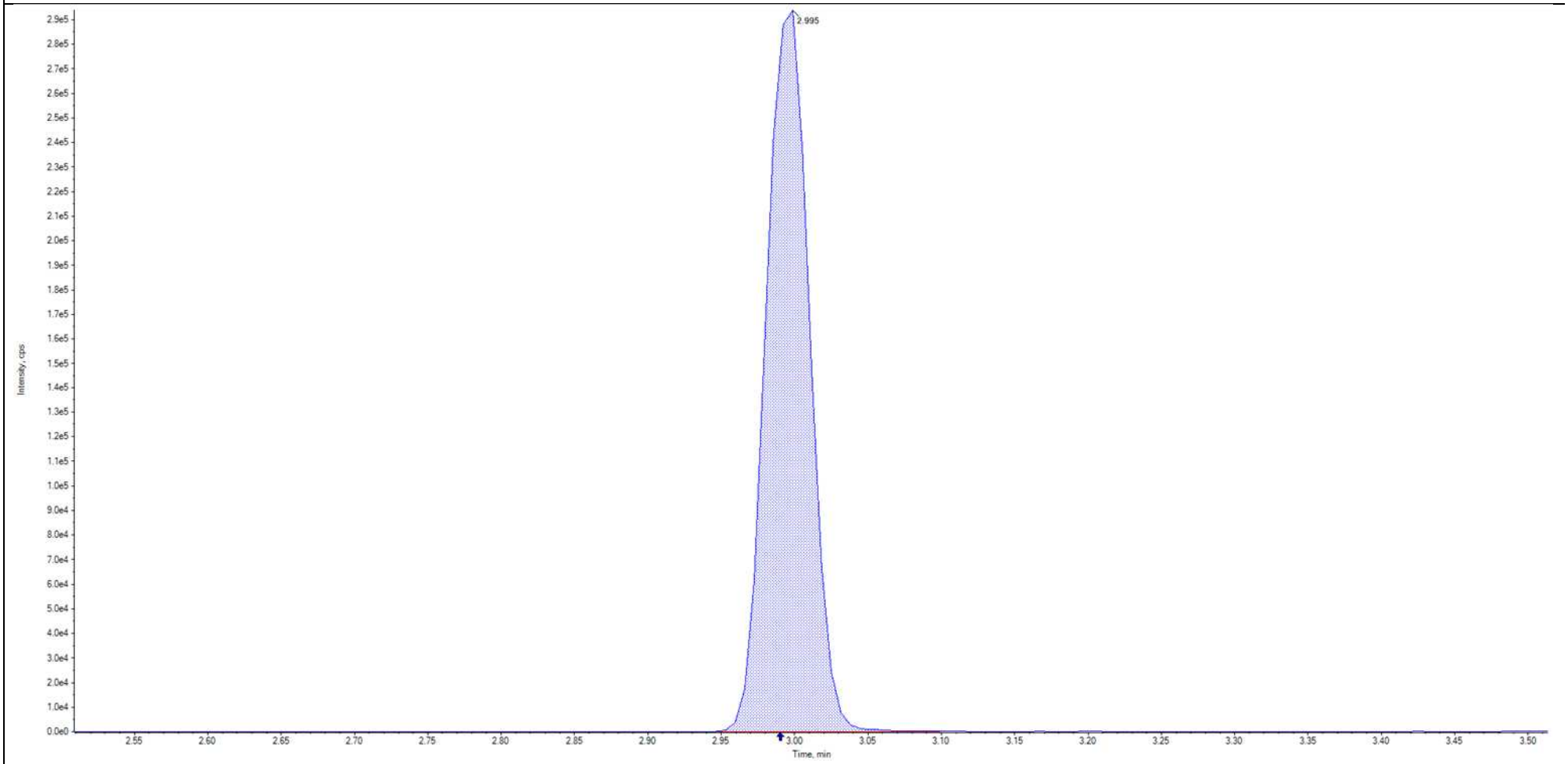


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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13C4-PFHpA
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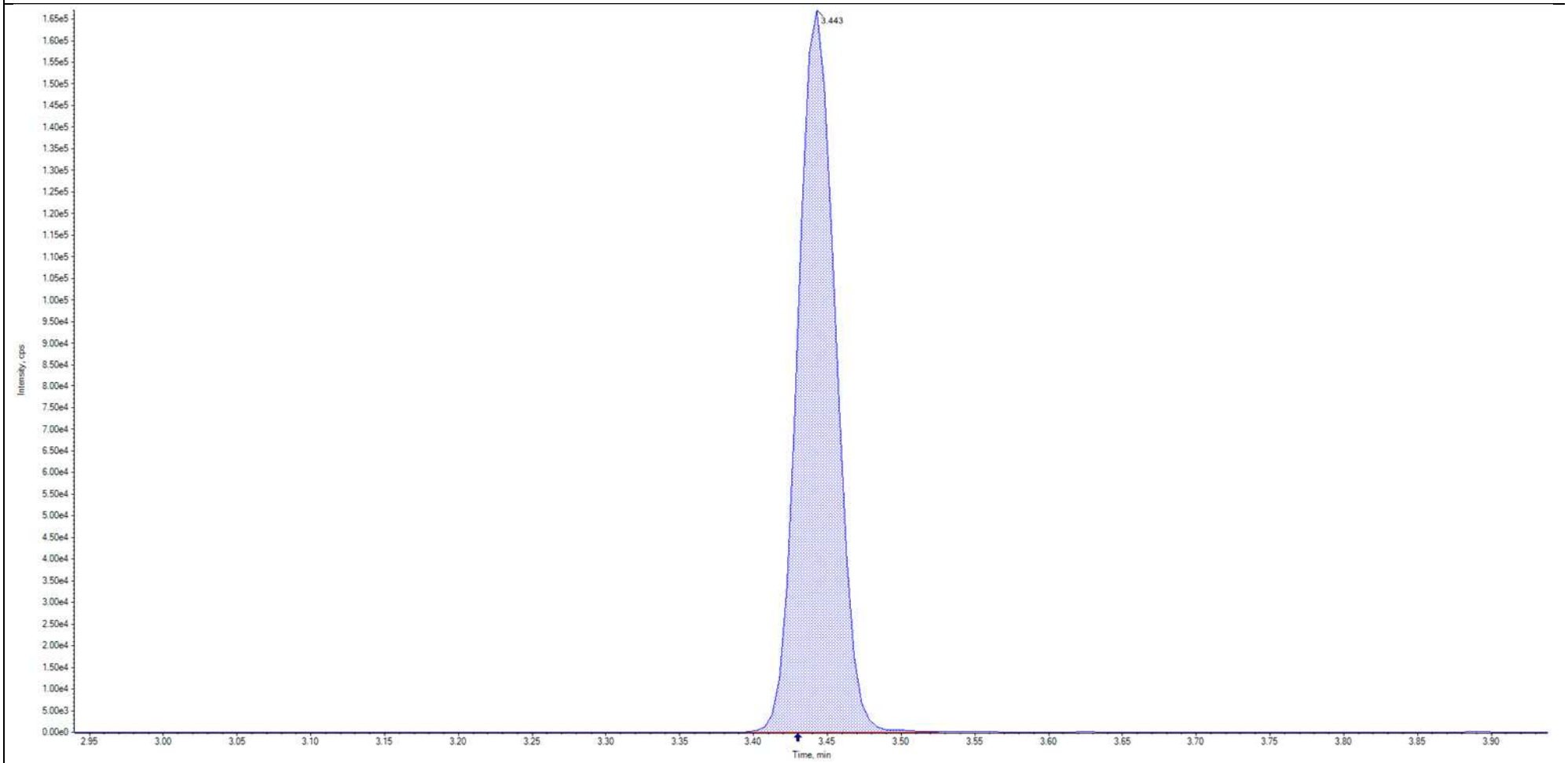


13C8-PFOA
Sample: WG2038851-7,1633FMED

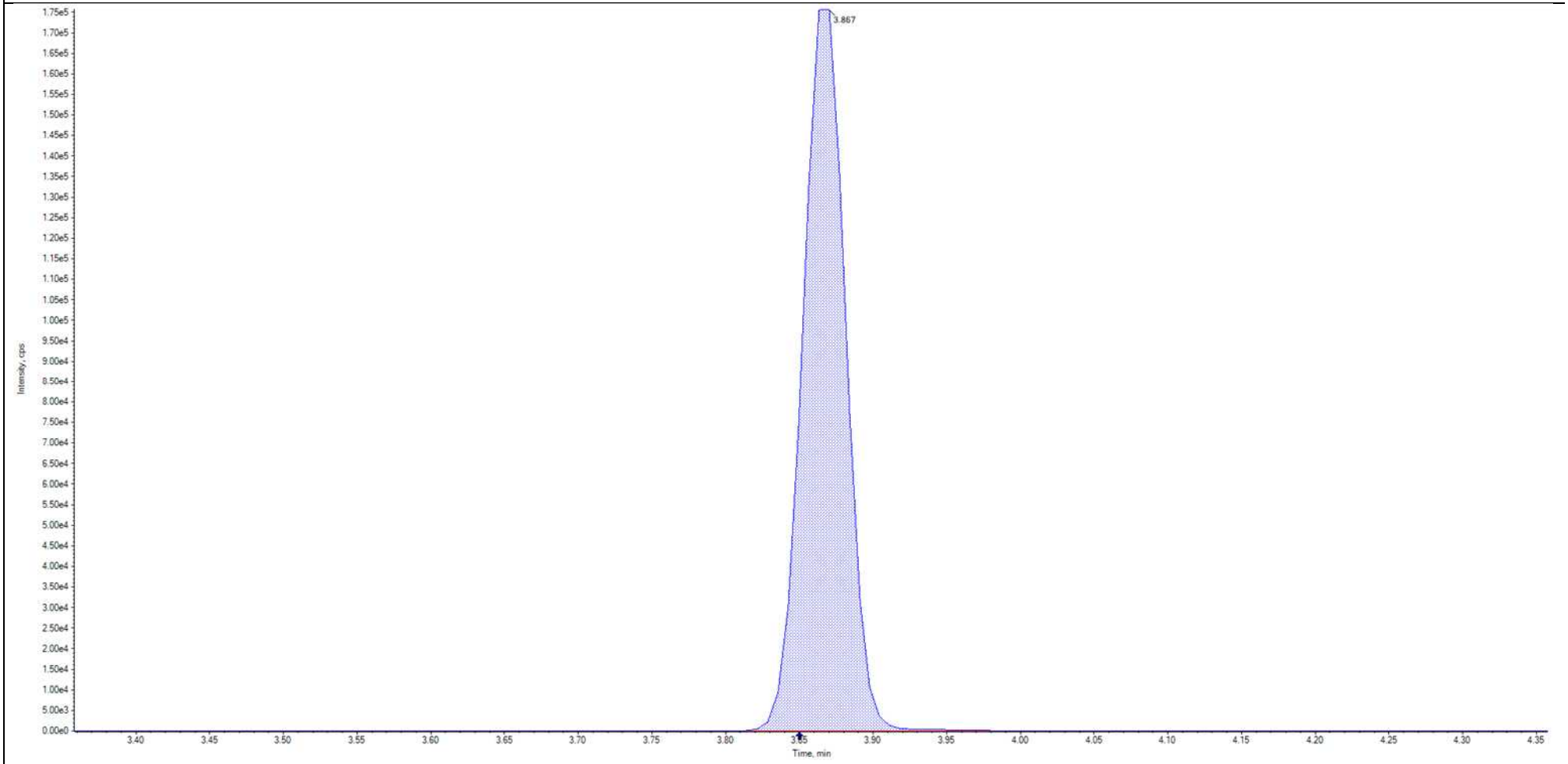


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C9-PFNA
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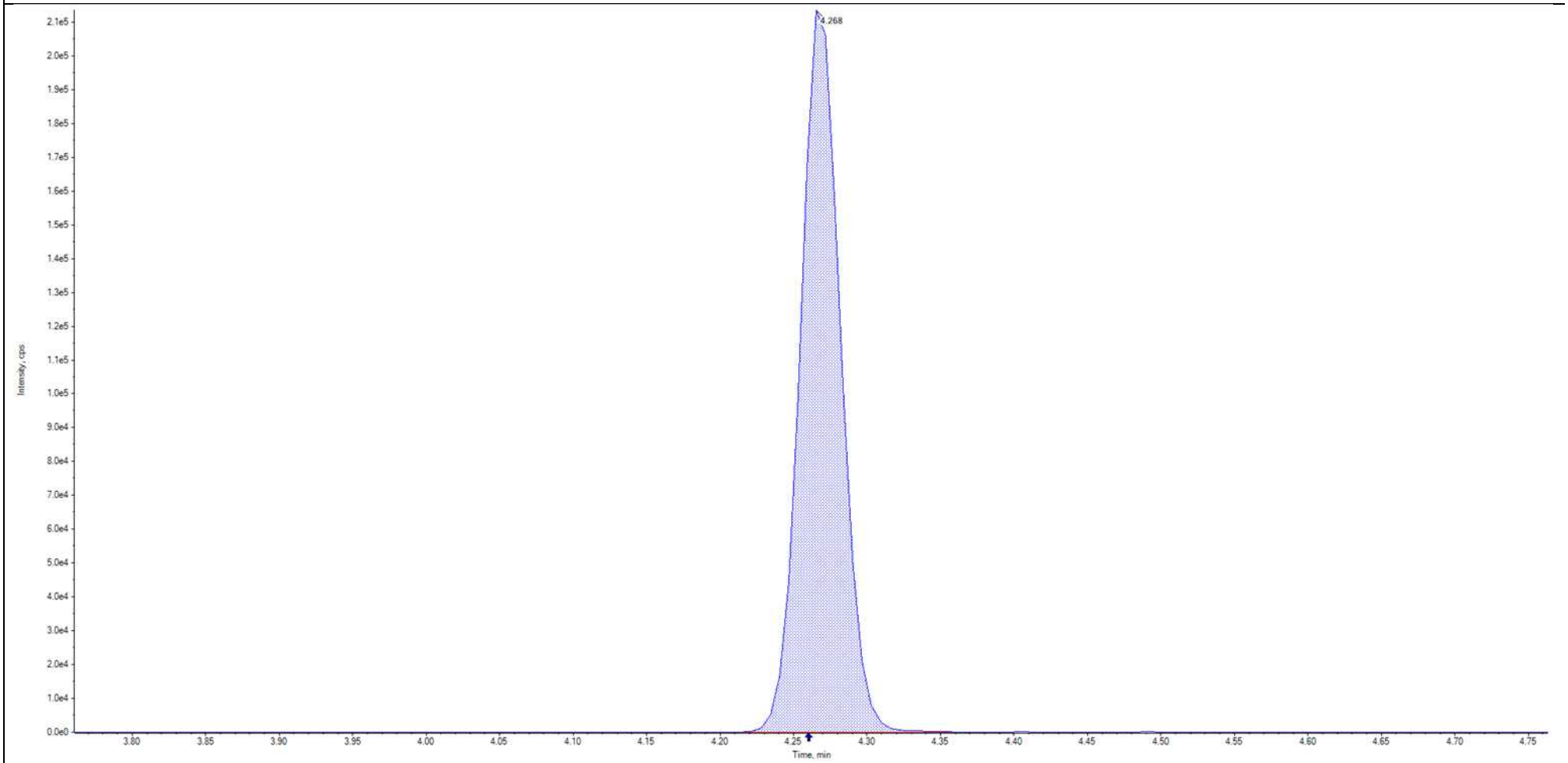


13C6-PFDA
Sample: WG2038851-7,1633FMED



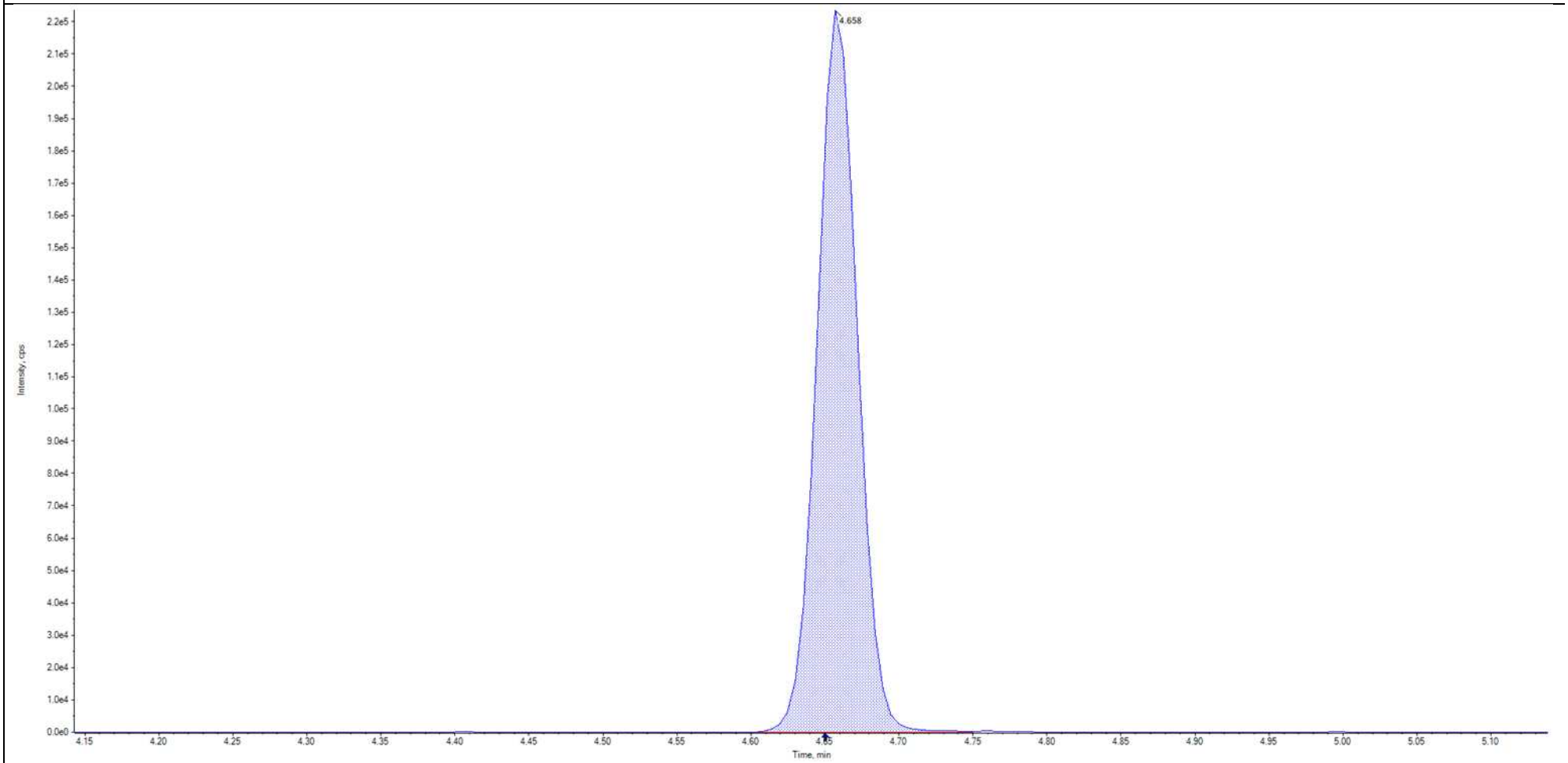
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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13C7-PFUnA
Sample: WG2038851-7,1633FMED

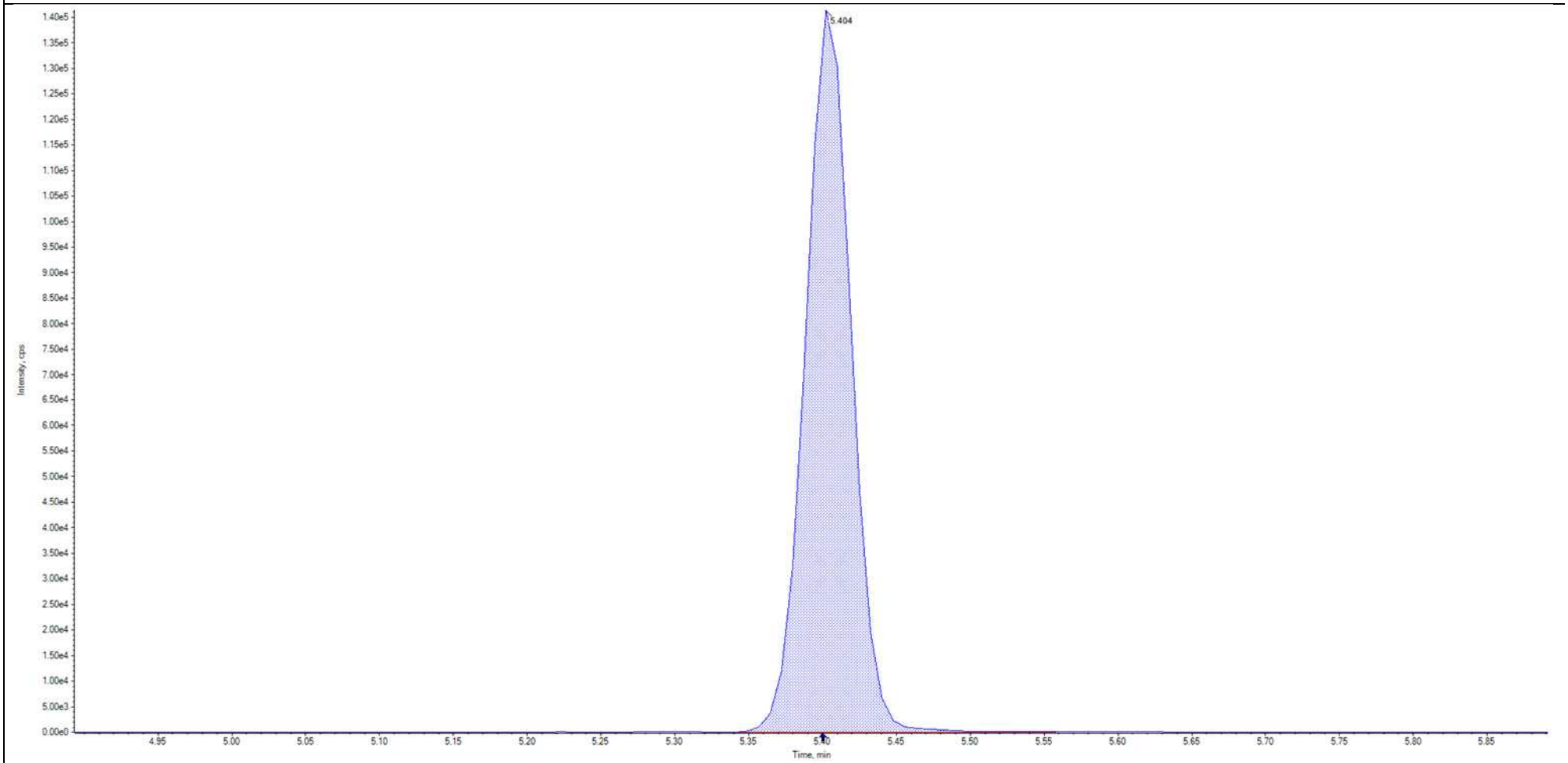


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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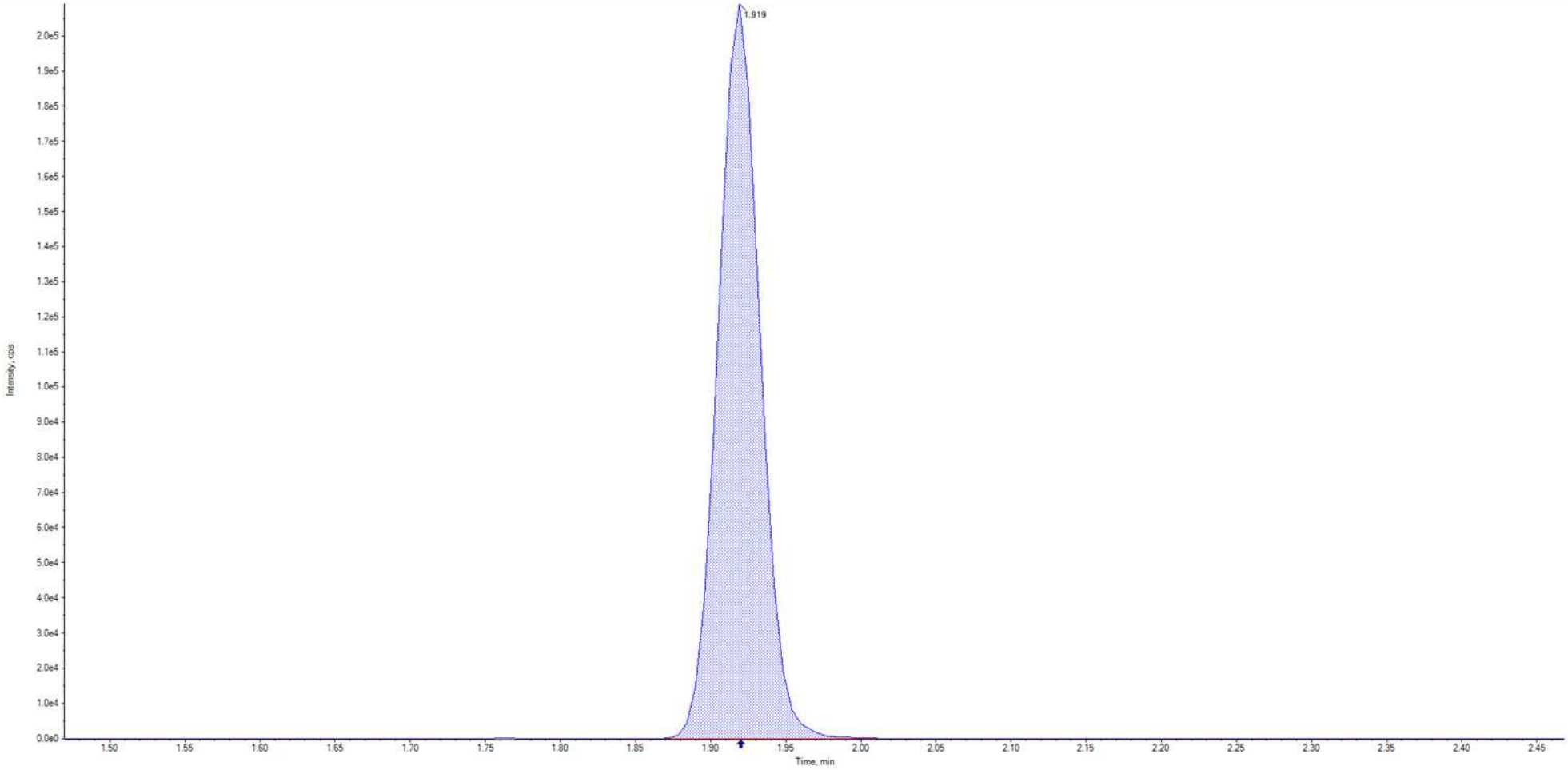
13C2-PFDoA
Sample: WG2038851-7,1633FMED



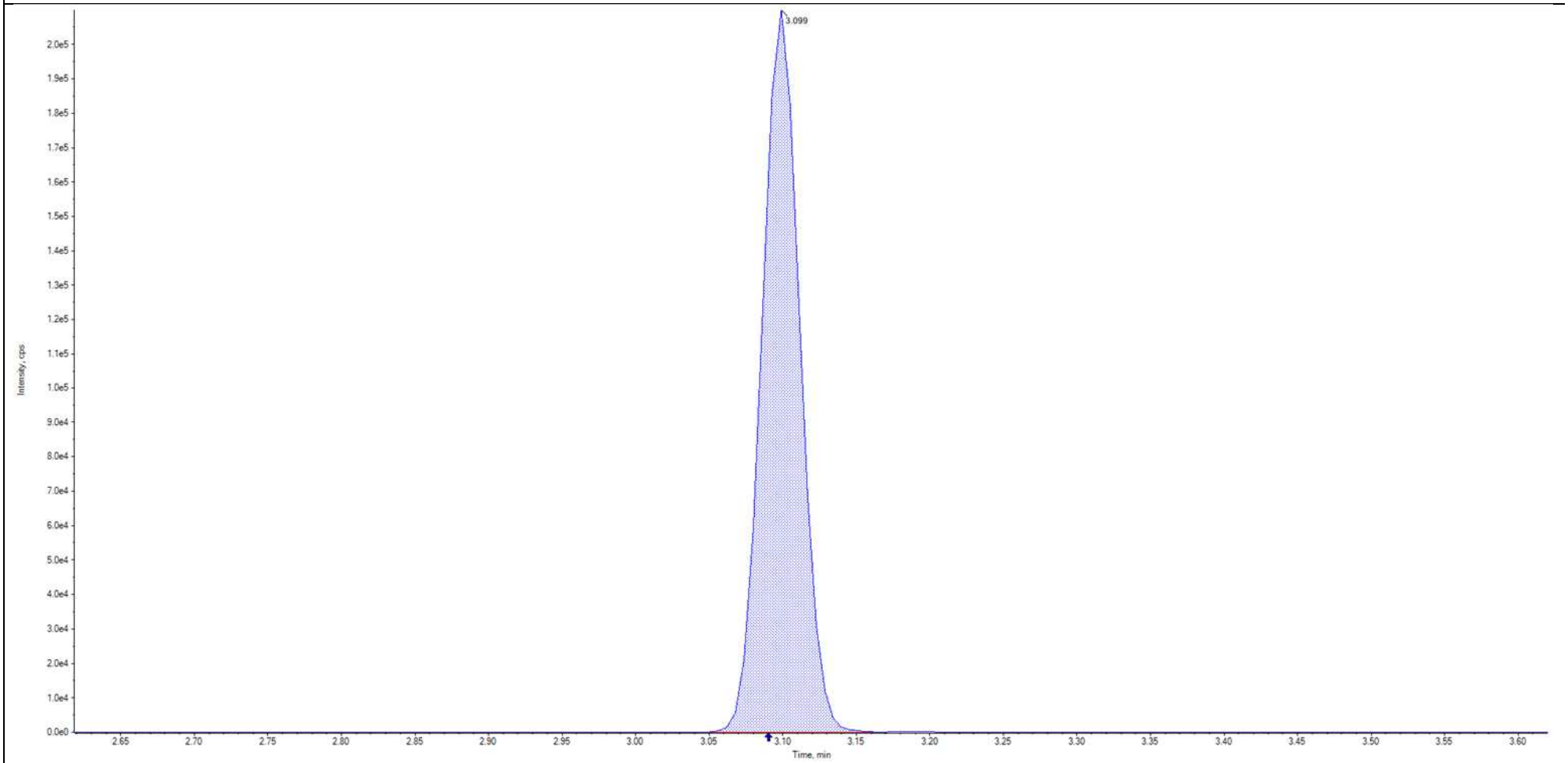
13C2-PFTeDA
Sample: WG2038851-7,1633FMED



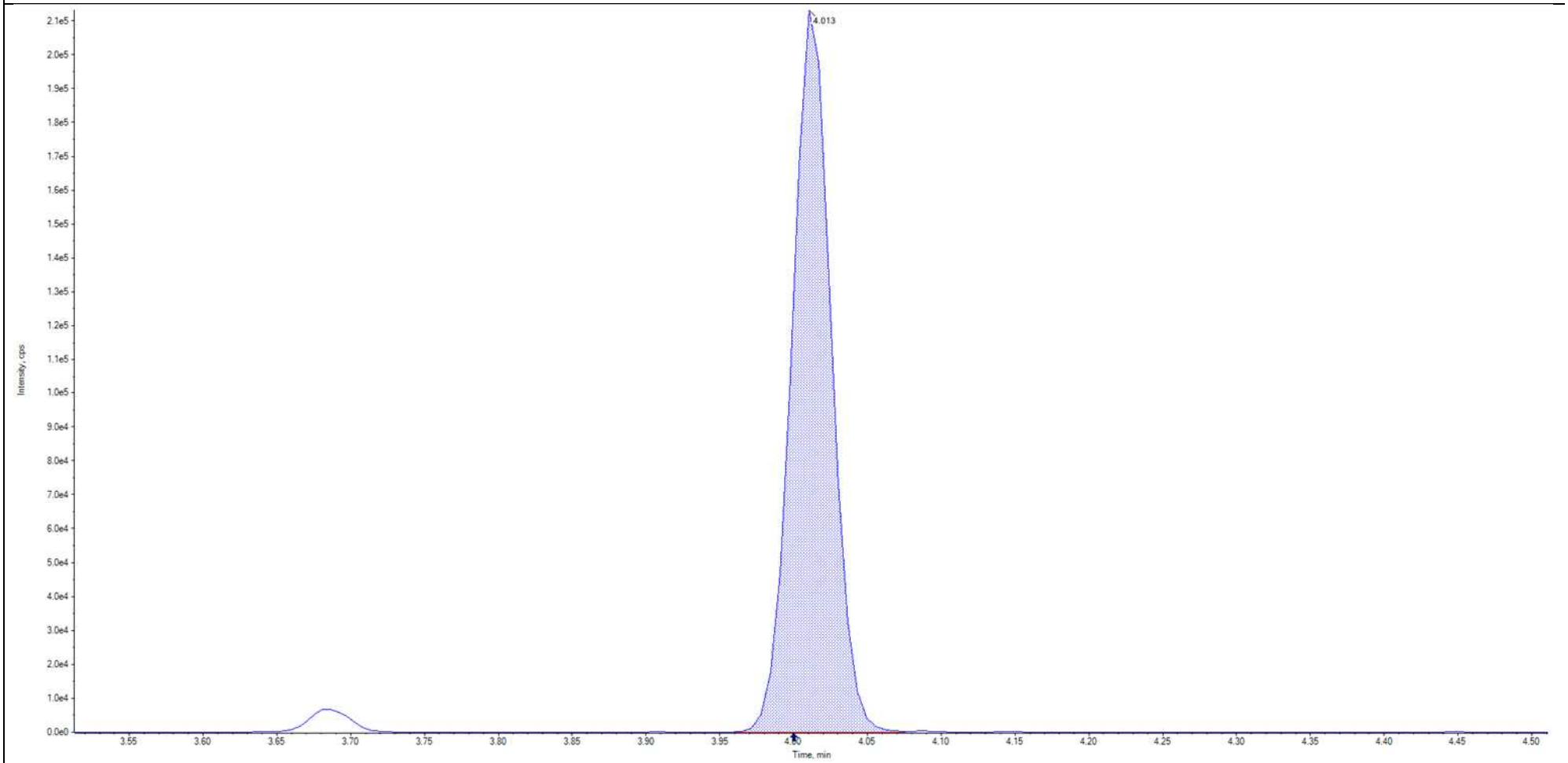
13C3-PFBS
Sample: WG2038851-7,1633FMED



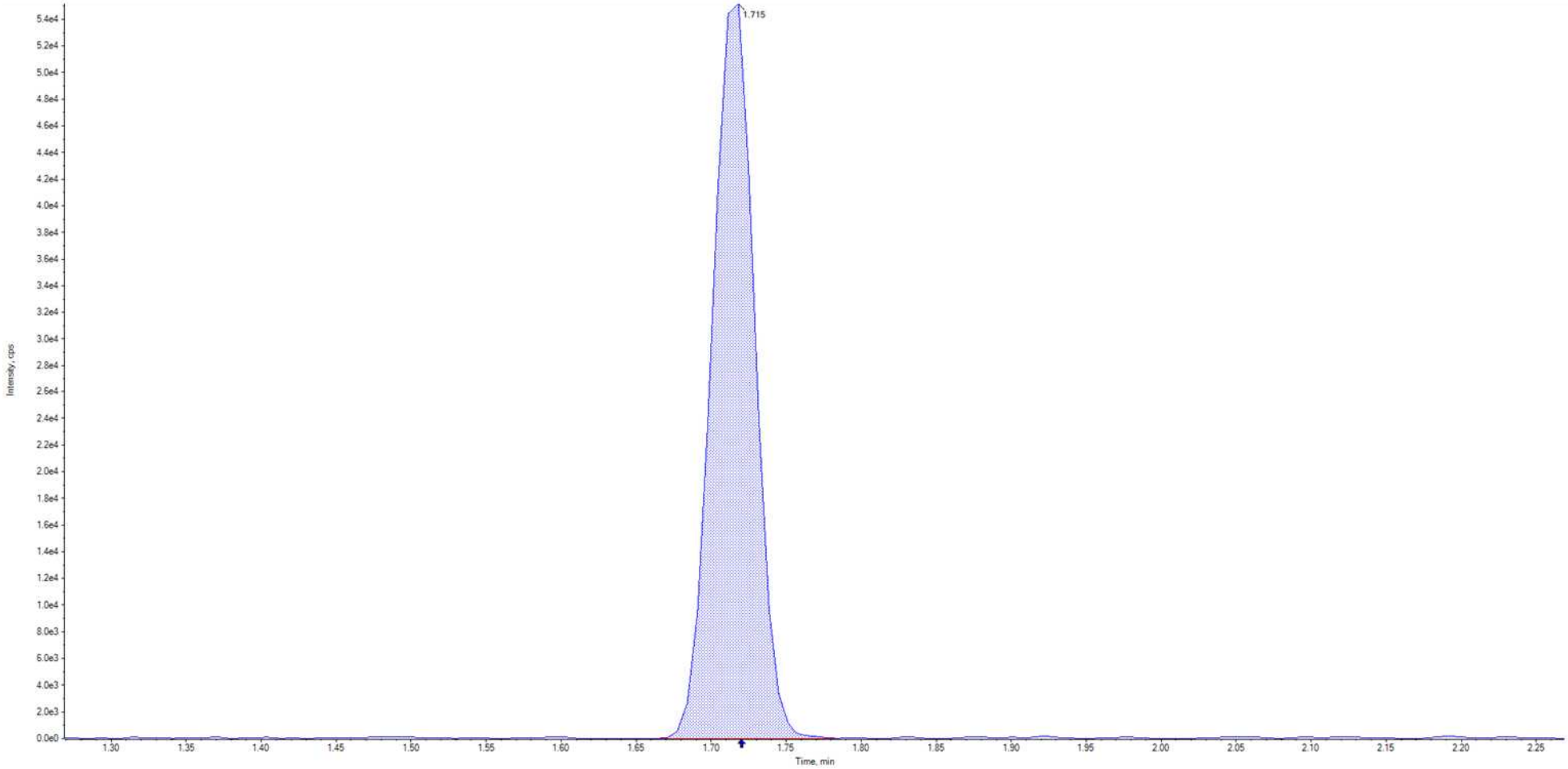
13C3-PFHxS
Sample: WG2038851-7,1633FMED



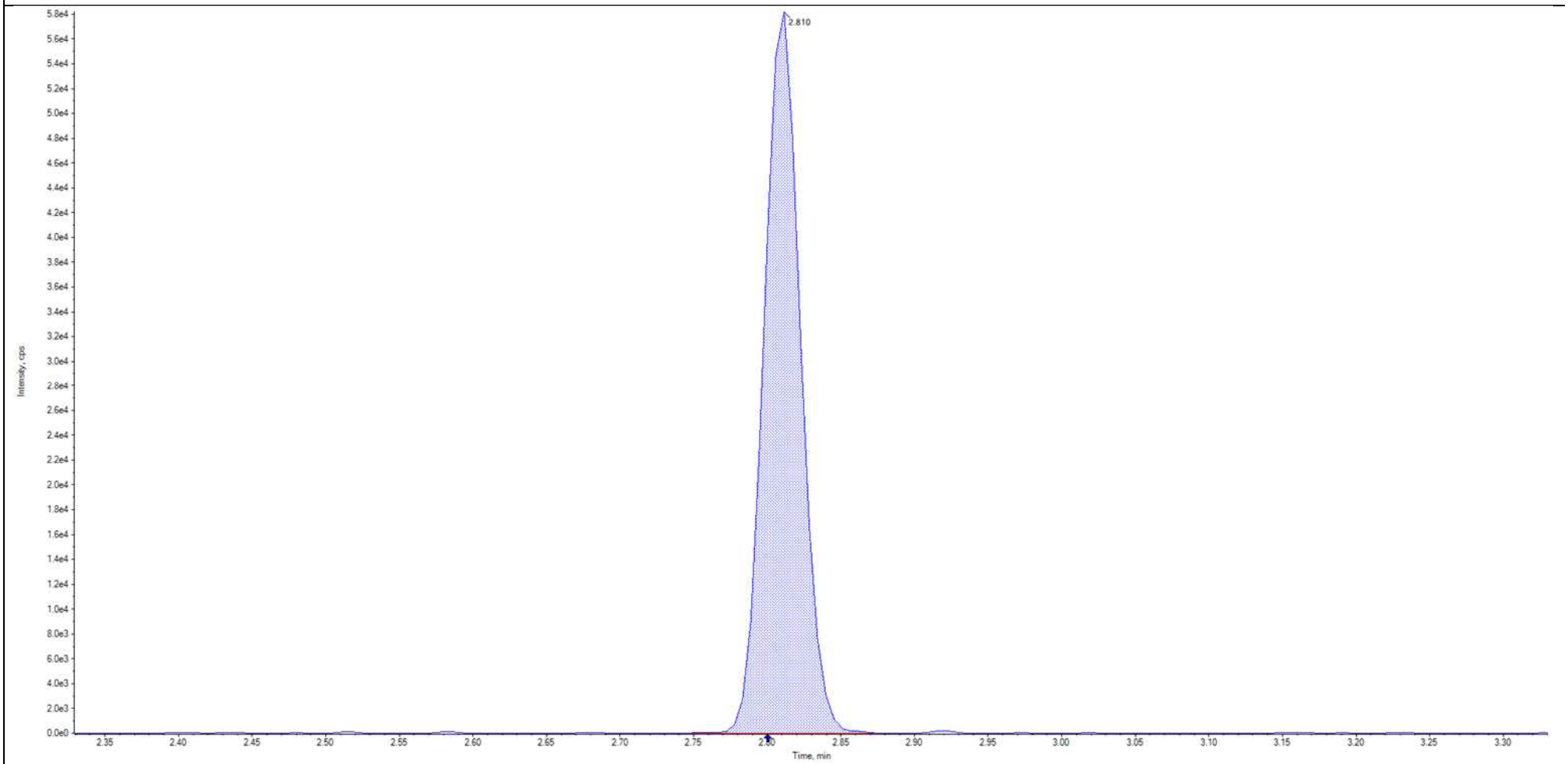
13C8-PFOS
Sample: WG2038851-7,1633FMED



13C2-4:2FTS
Sample: WG2038851-7,1633FMED

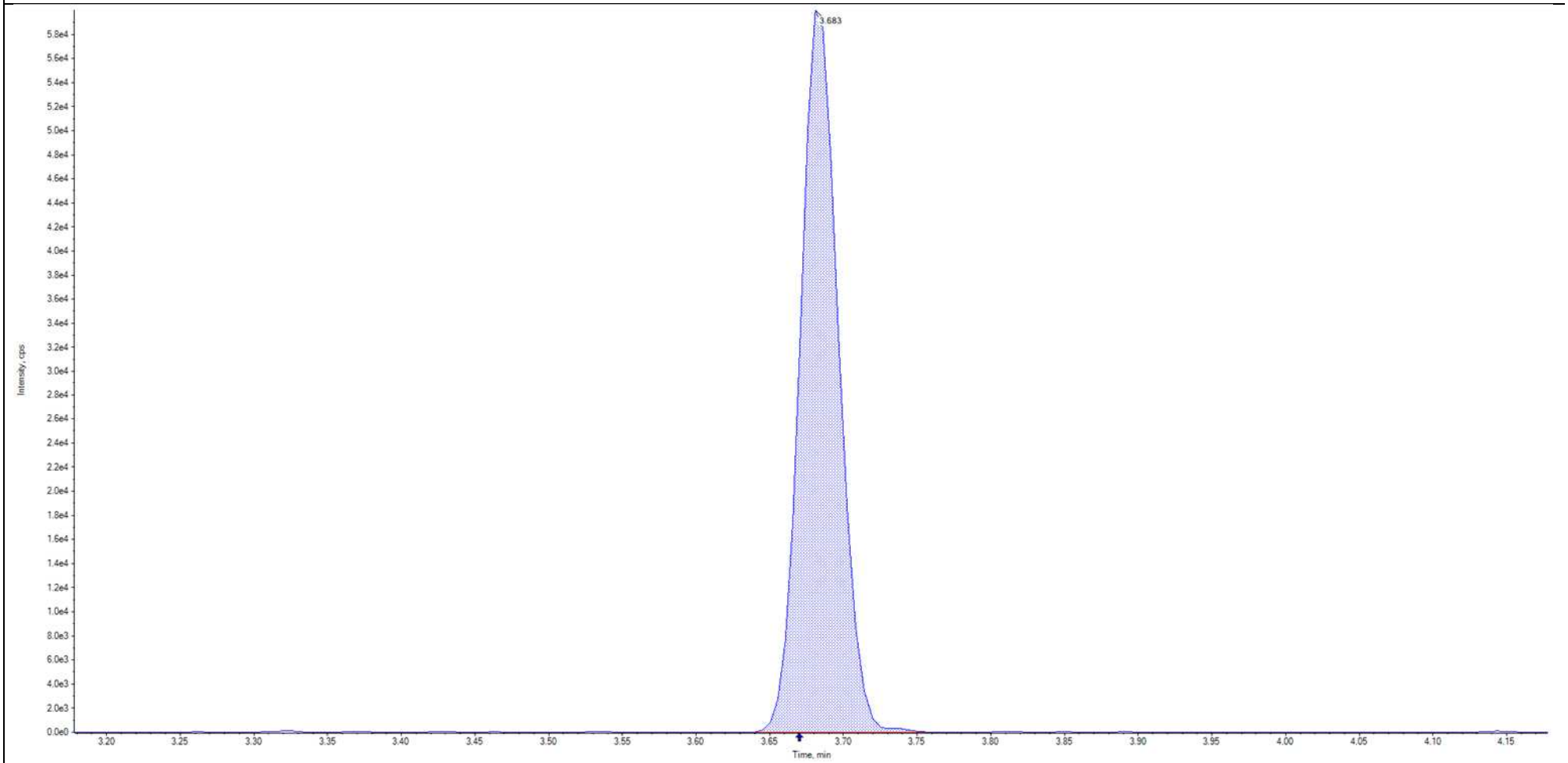


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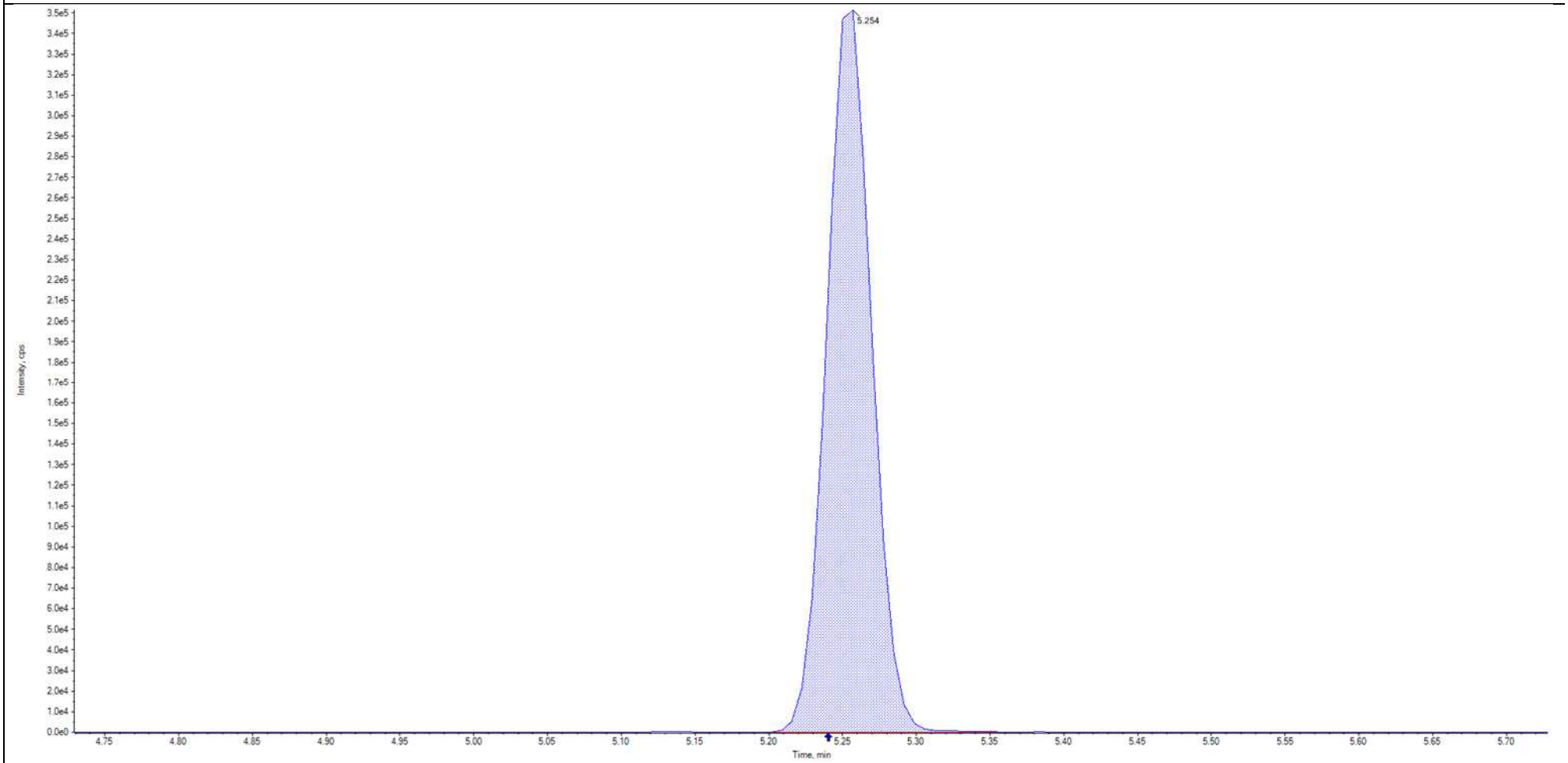


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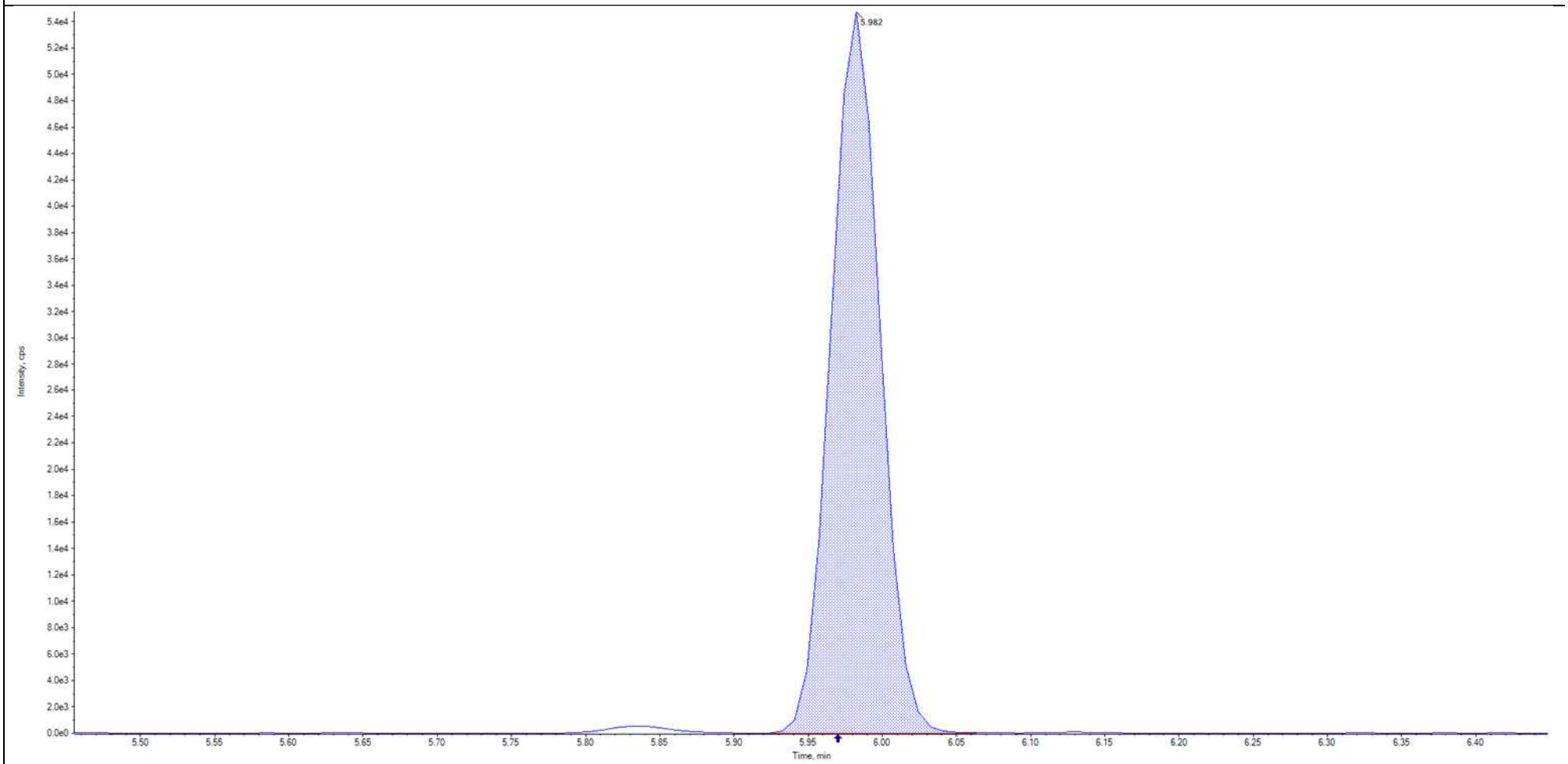
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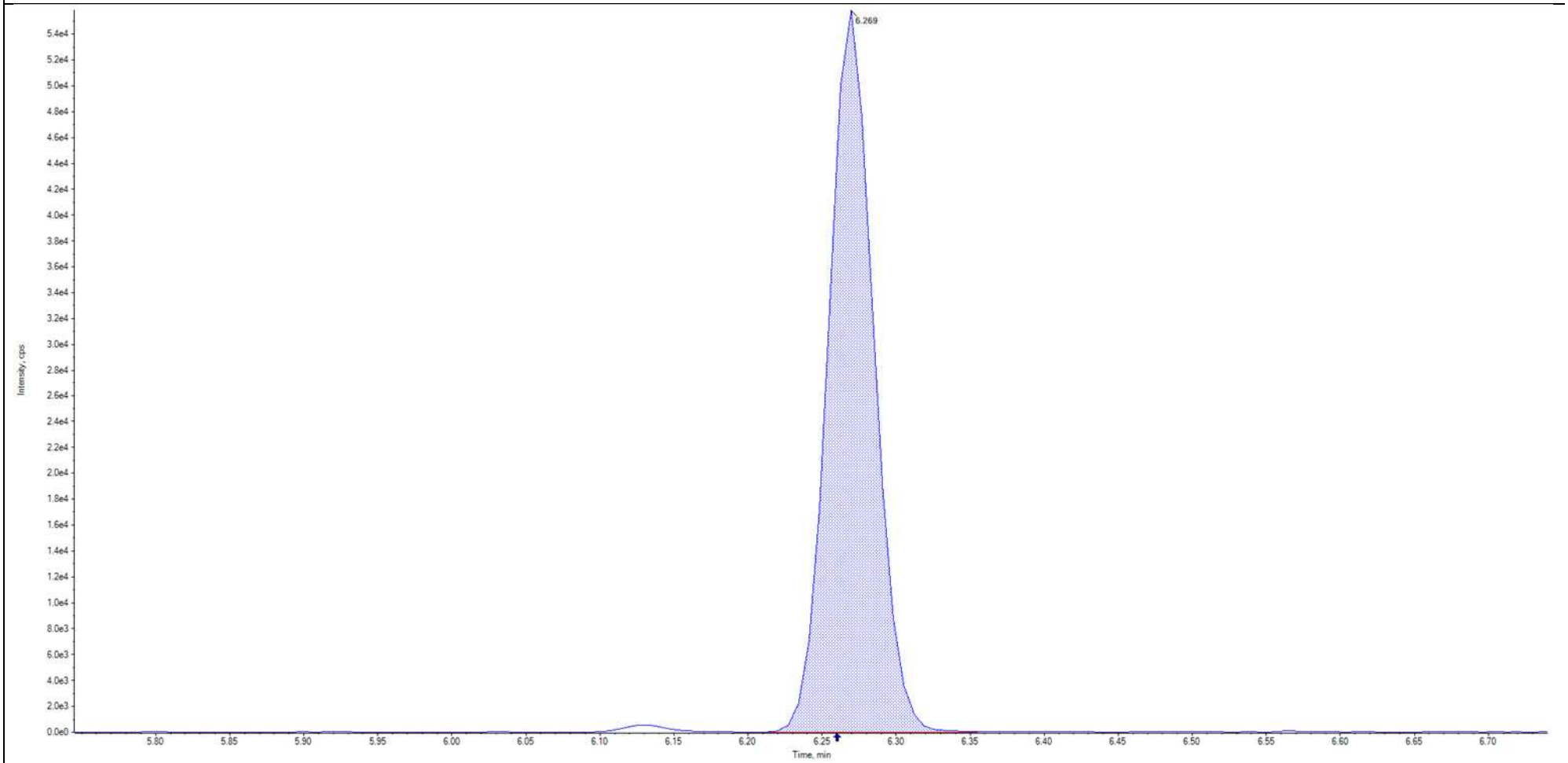
13C8-PFOSA
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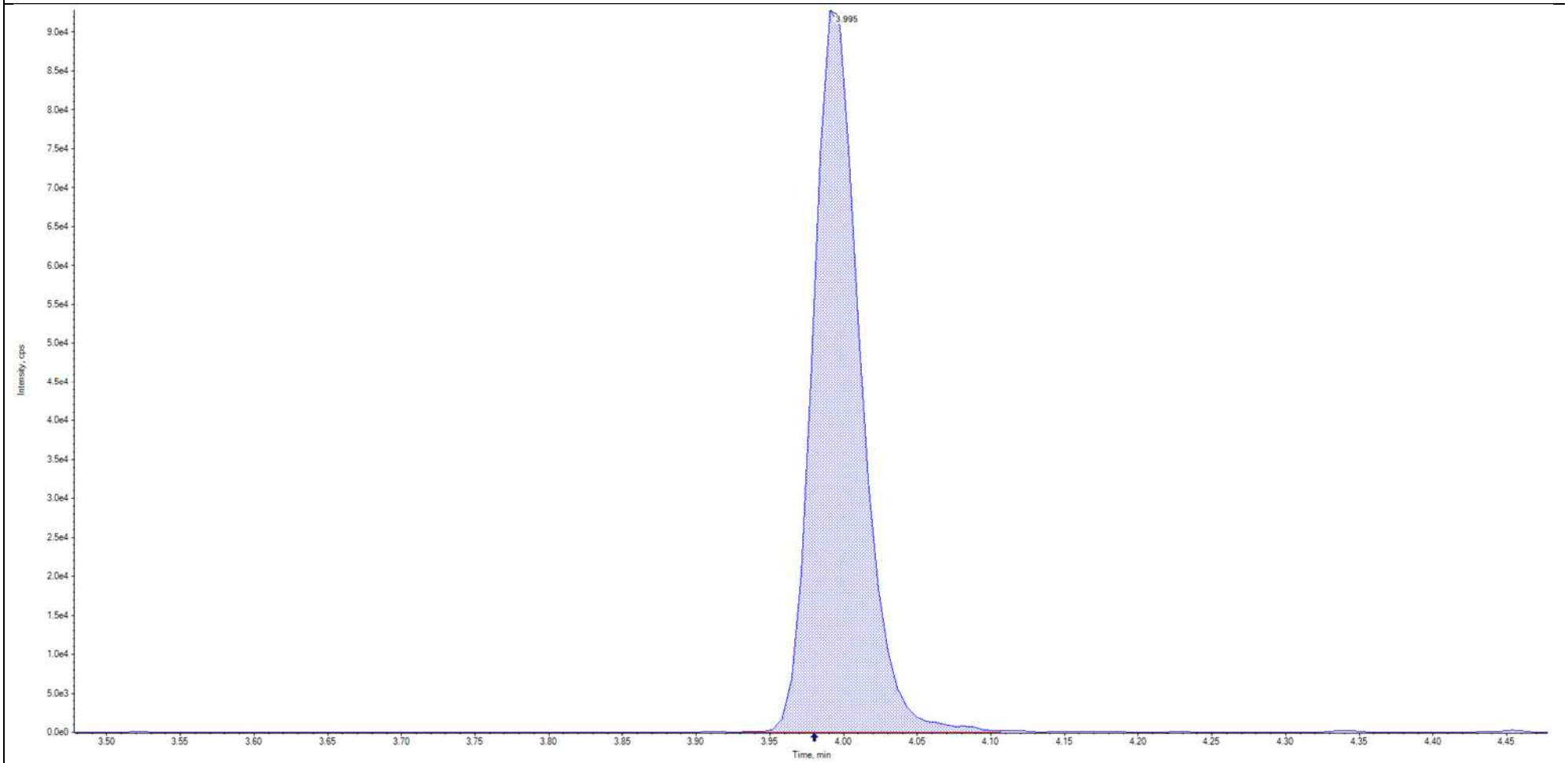
d3-NMeFOSA
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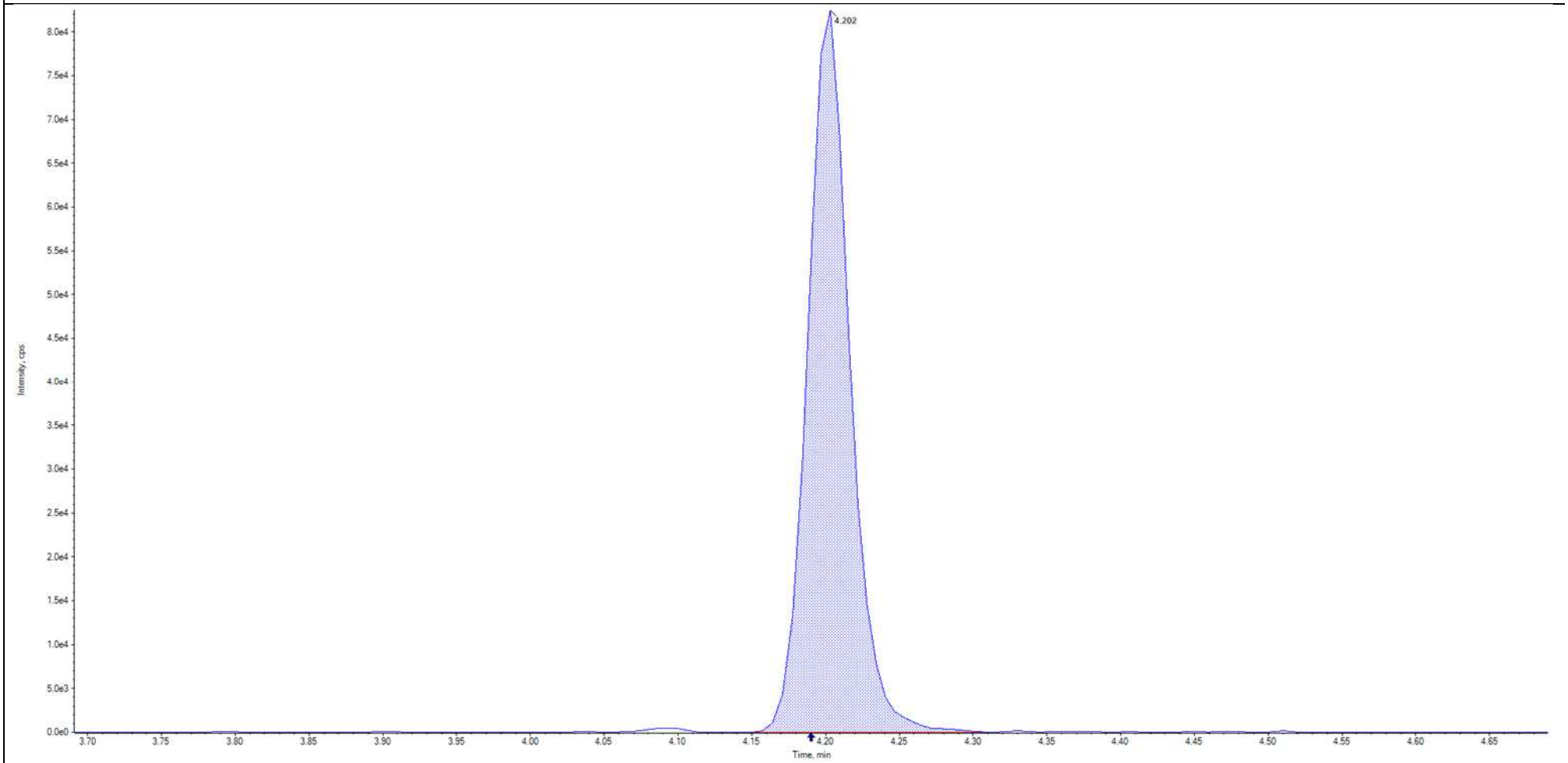
d5-NEtFOSA
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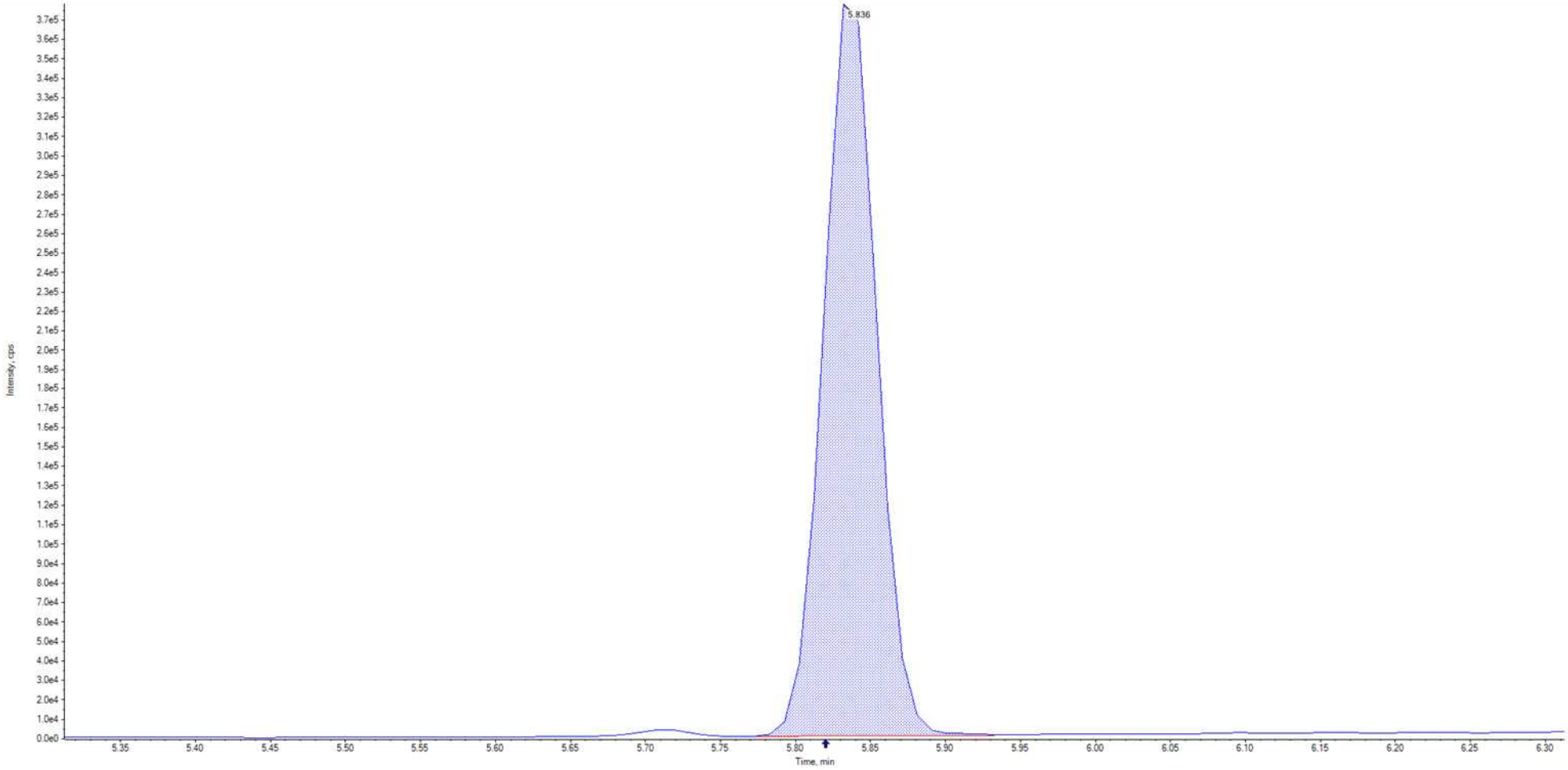
d3-NMeFOSAA
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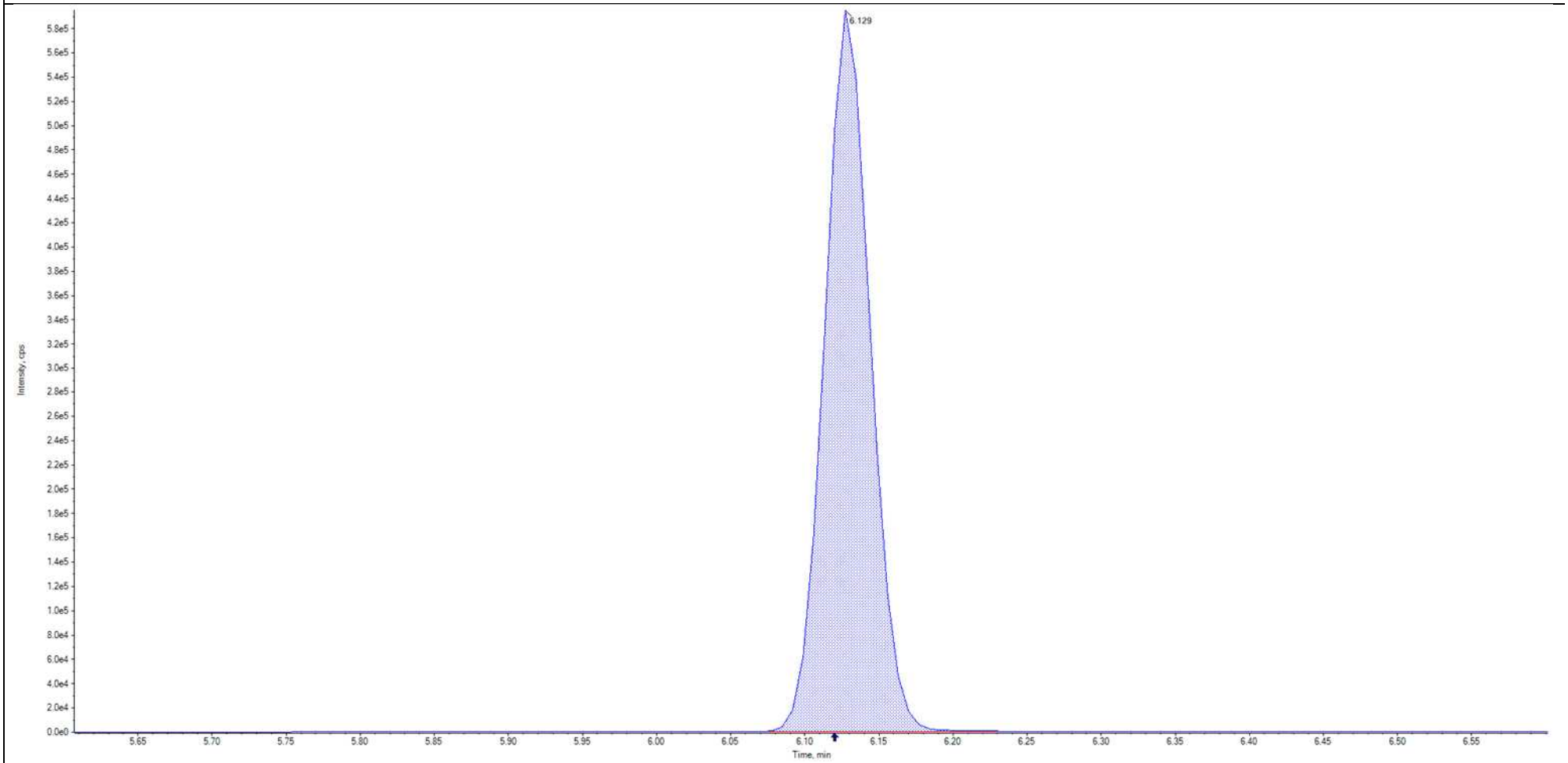
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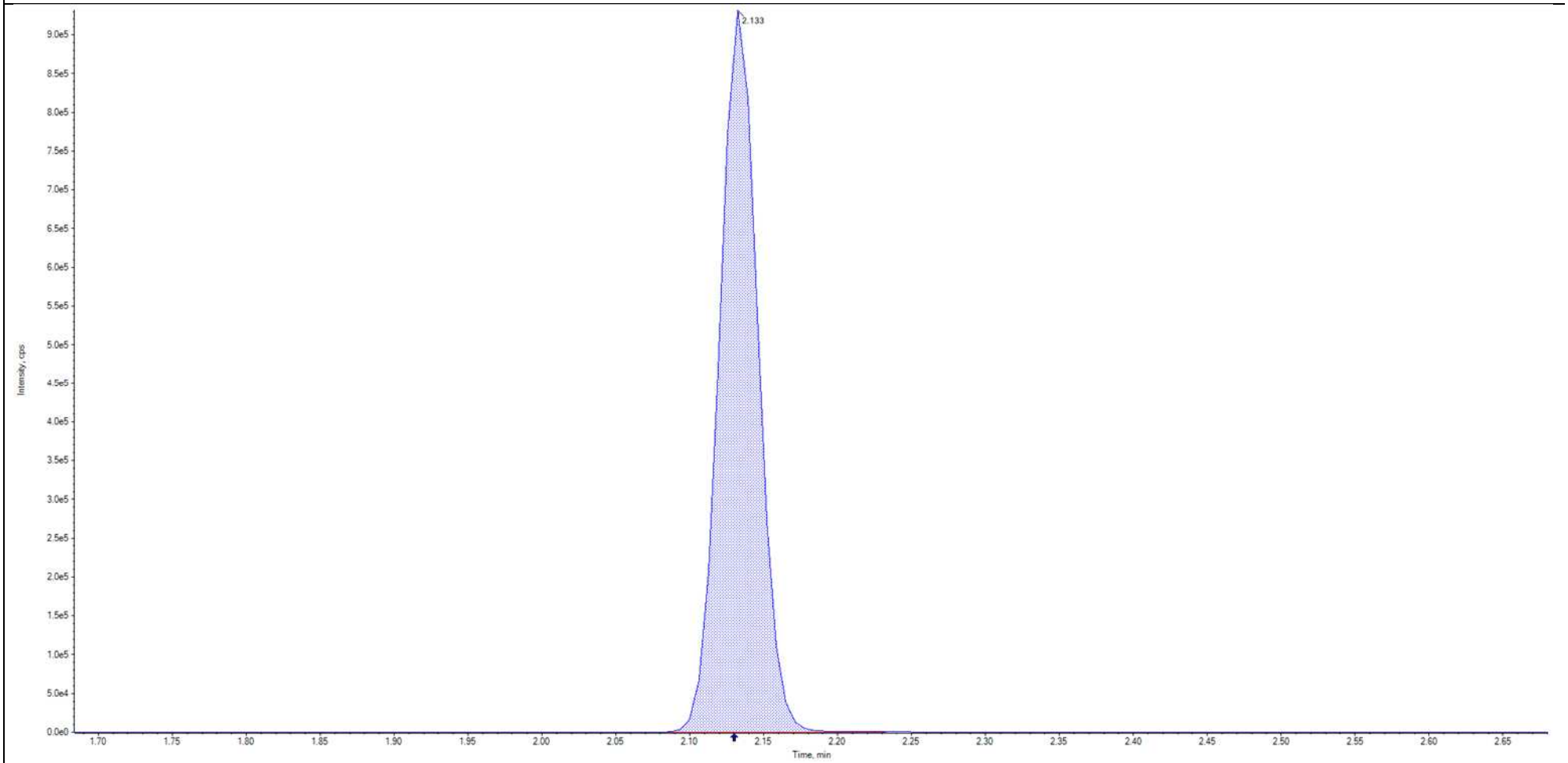
d7-NMeFOSE
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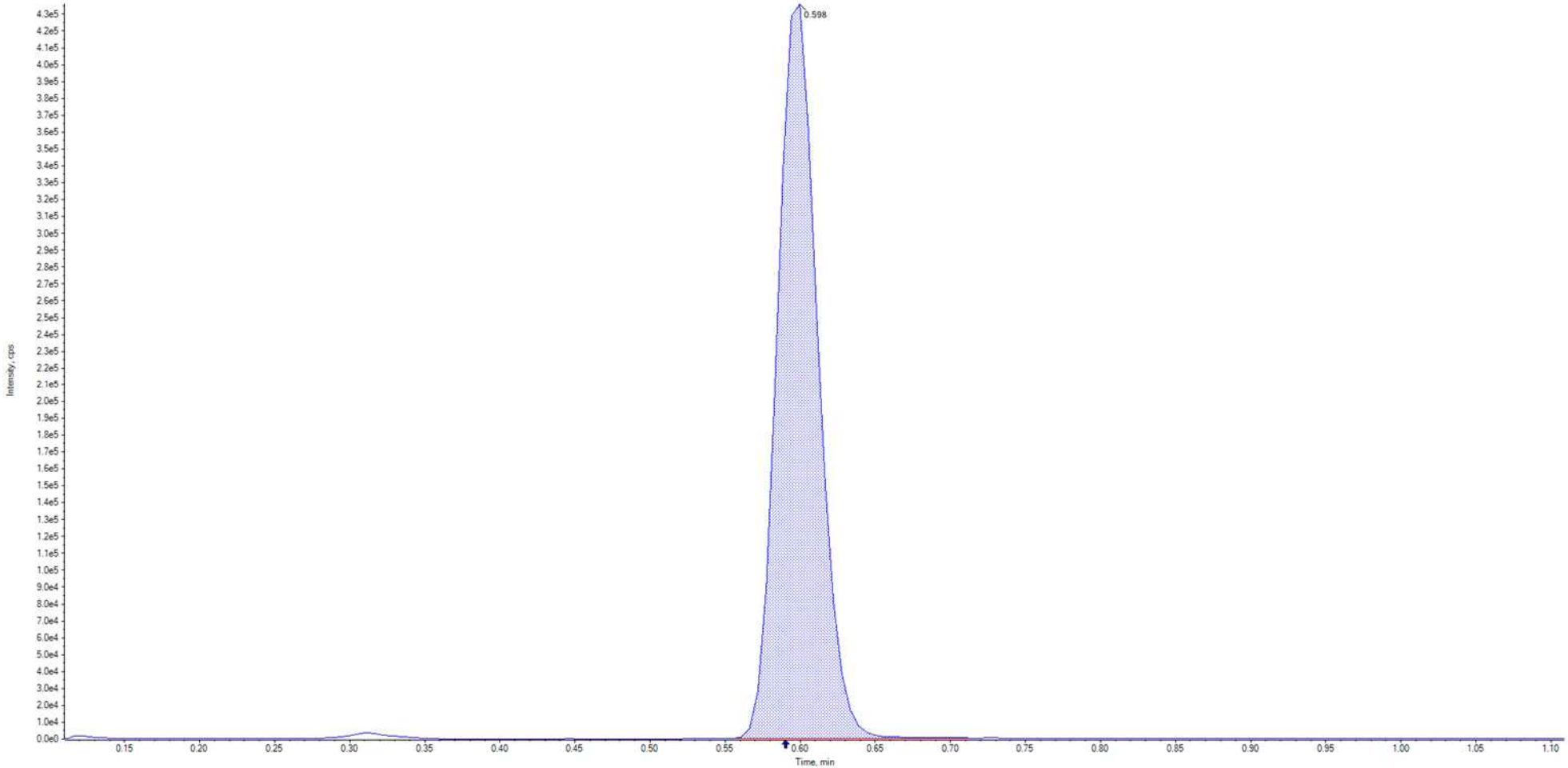
d9-NEtFOSE
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13C3-HFPO-DA
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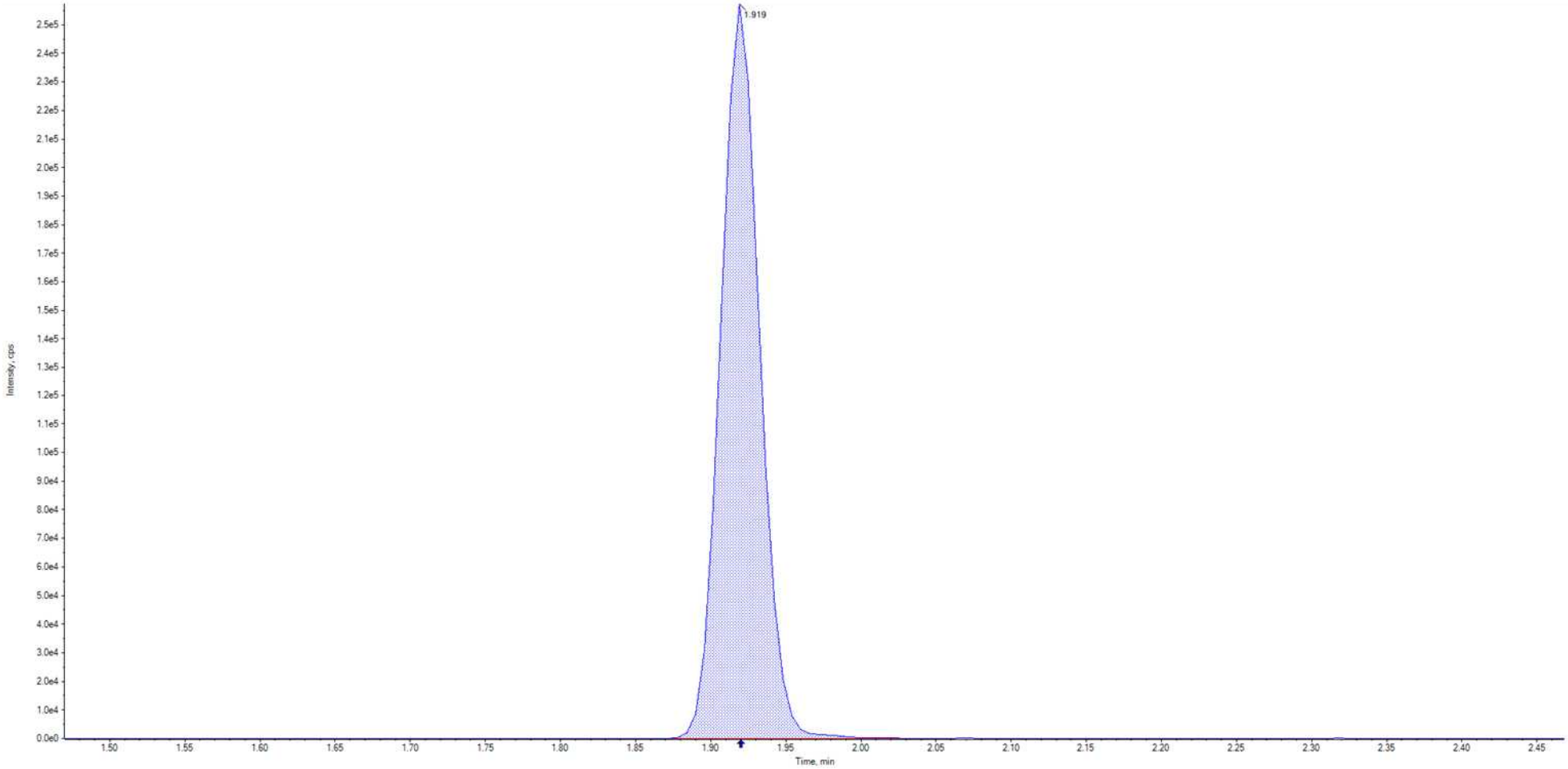


13C3-PFBA
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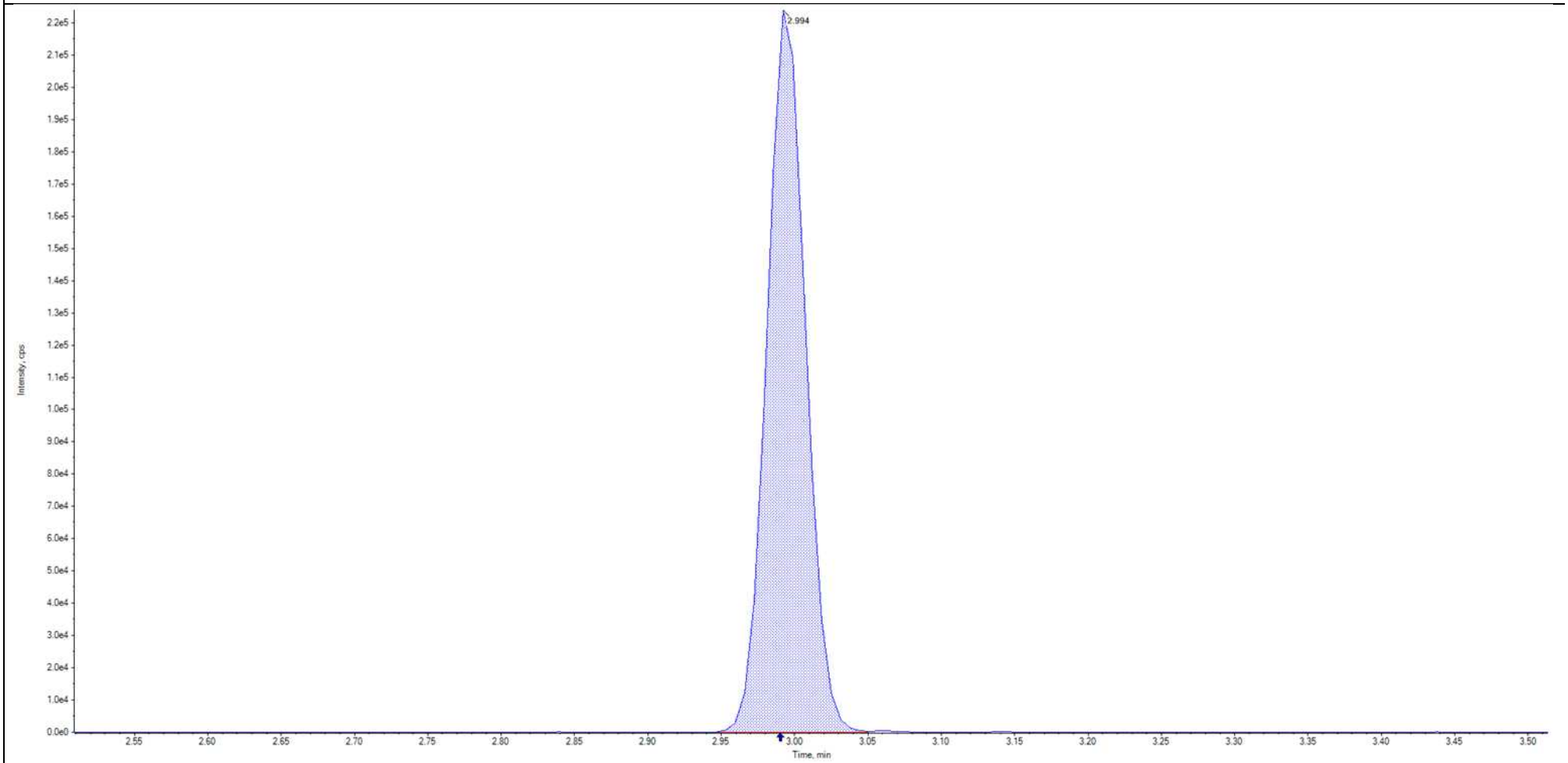
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13C2-PFHxA
Sample: WG2038851-7,1633FMED



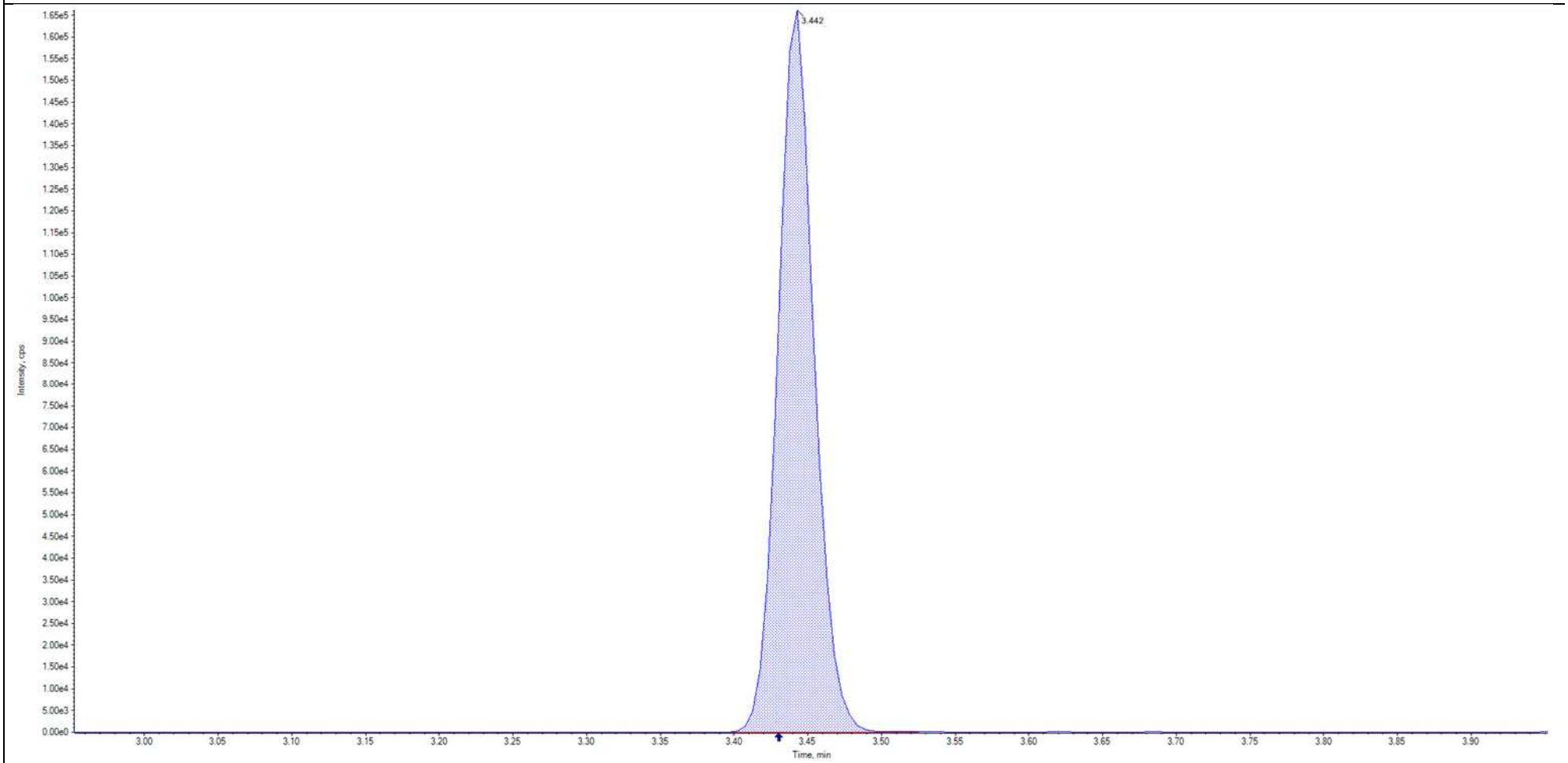
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13C4-PFOA
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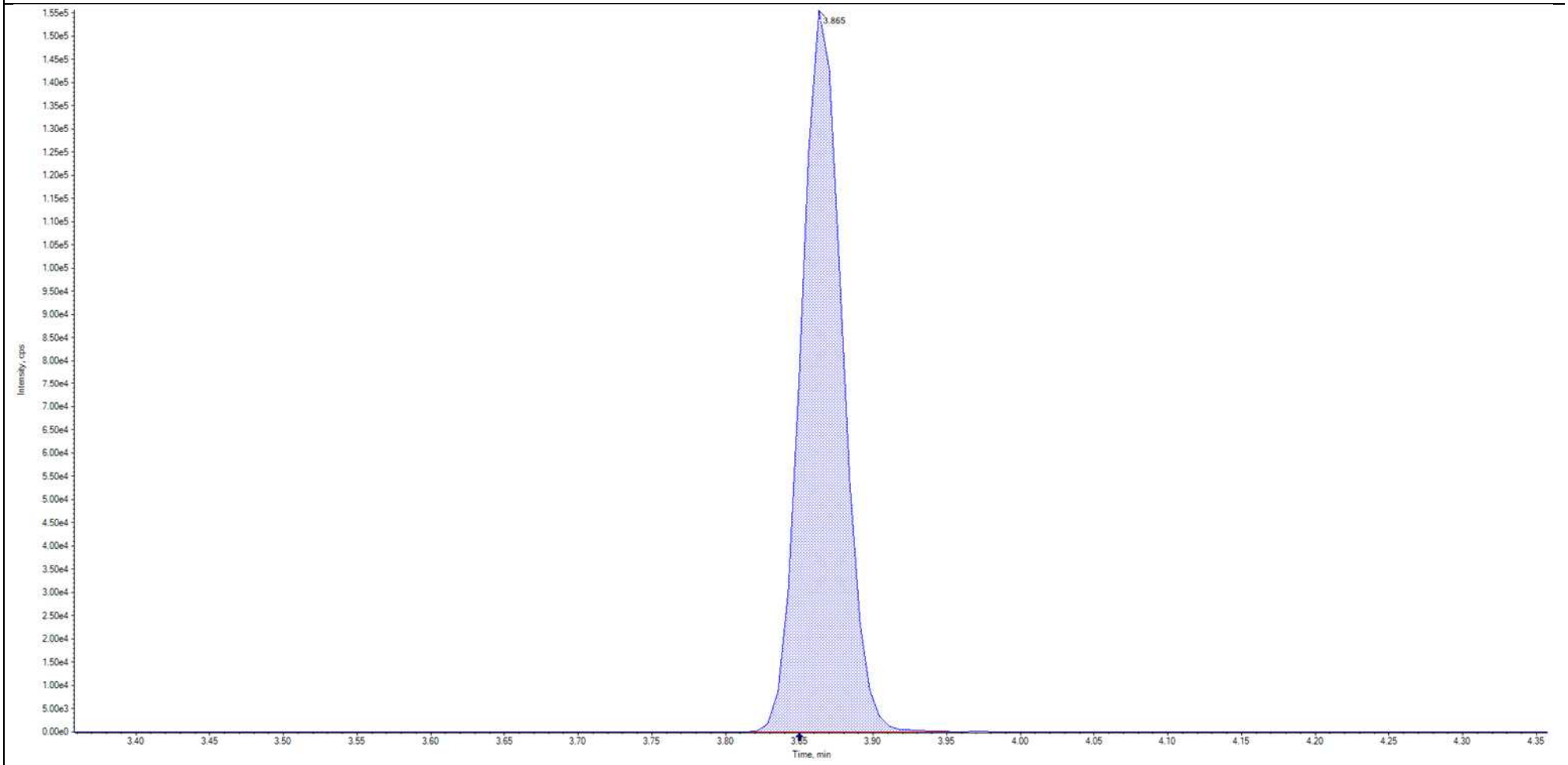


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13C5-PFNA
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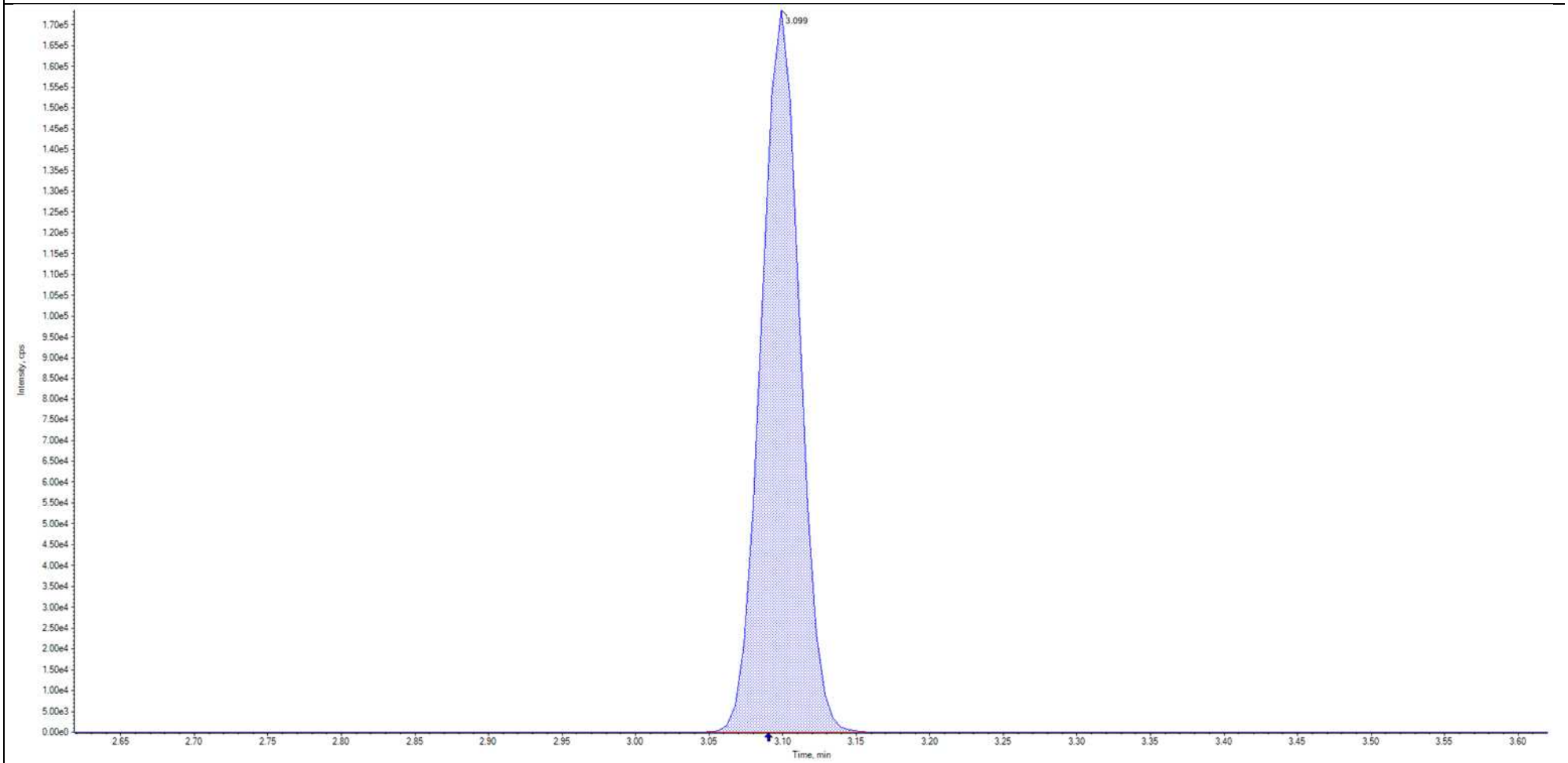


13C2-PFDA
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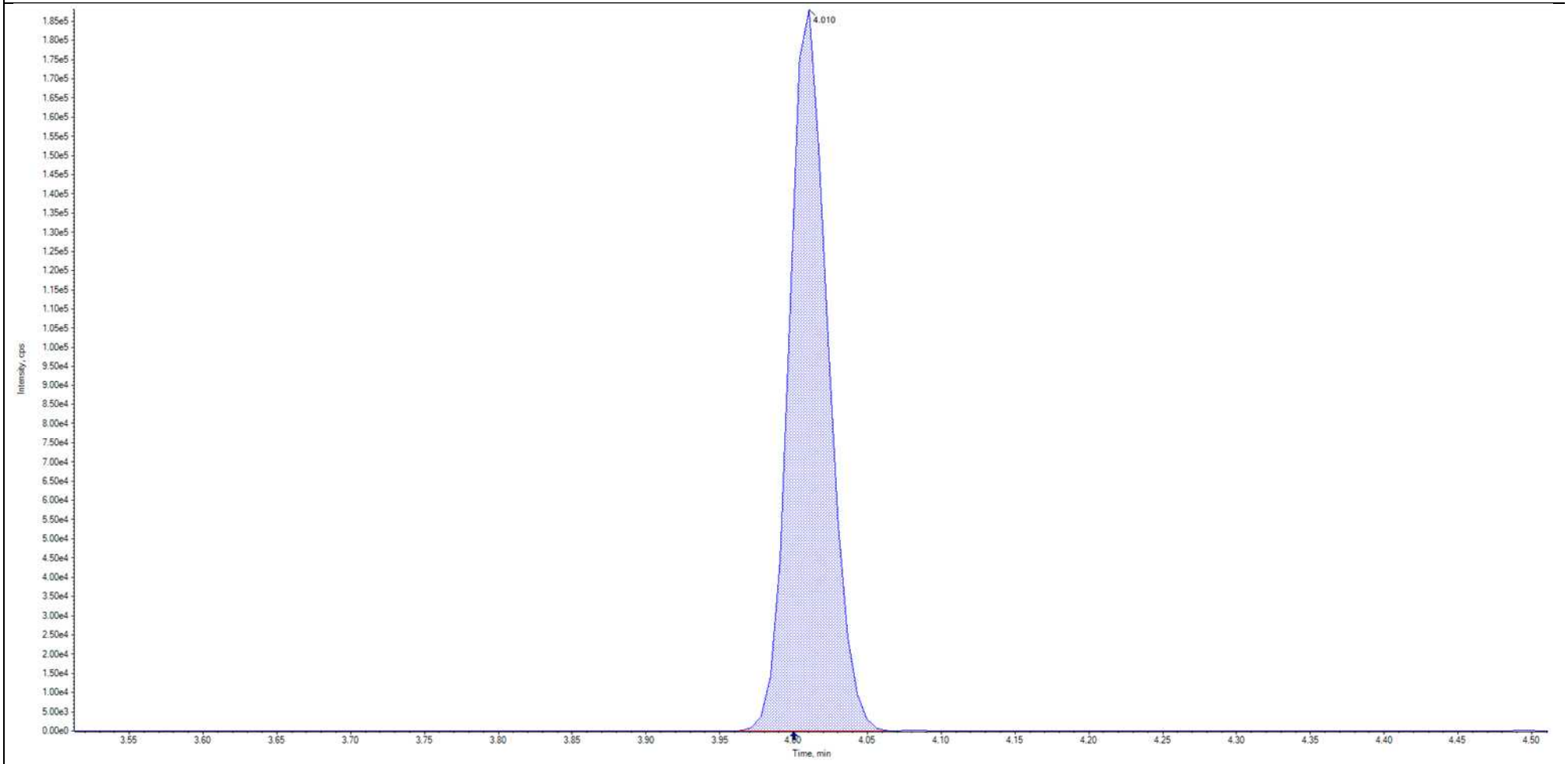
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18O2-PFHxS
Sample: WG2038851-7,1633FMED



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C4-PFOS
Sample: WG2038851-7,1633FMED



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Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

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Description: WG2038851,WG2030000,ICAL22044,1633FMED
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.59	213.0 / 169.0	3302619		19.348	N/A	N/A	N/A	96.7
2	PFPeA	2706-90-3	1.17	263.0 / 219.0	1593943		9.398	0.007	N/A	N/A	94.0
3	PFPeA_2	2706-90-3	1.17	263.0 / 68.9	10665		8.966	0.007	N/A	N/A	89.7
4	PFHxA	307-24-4	1.92	313.0 / 269.0	1116351		4.986	0.074	0.081	Pass	99.7
5	PFHxA_2	307-24-4	1.92	313.0 / 119.0	82483		4.333	0.074	0.081	Pass	86.7
6	PFHpA	375-85-9	2.50	363.1 / 319.0	1141697		4.621	0.374	0.373	Pass	92.4
7	PFHpA_2	375-85-9	2.50	363.1 / 169.0	426437		4.372	0.374	0.373	Pass	87.4

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	3.00	413.1 / 369.1	1115446	M5	4.616	0.422	0.424	Pass	92.3
9	PFOA_2	335-67-1	3.00	413.1 / 169.0	470546	M5	4.600	0.422	0.424	Pass	92.0
10	PFNA	375-95-1	3.45	462.8 / 418.9	791814	M5	4.659	0.496	0.493	Pass	93.2
11	PFNA_2	375-95-1	3.45	462.8 / 219.0	392647	M5	4.745	0.496	0.493	Pass	94.9
12	PFDA	335-76-2	3.87	513.1 / 469.1	1176947		4.734	0.167	0.188	Pass	94.7
13	PFDA_2	335-76-2	3.87	513.1 / 219.0	196896		4.301	0.167	0.188	Pass	86.0
14	PFUnA	2058-94-8	4.27	563.1 / 519.1	1297624		4.911	0.146	0.146	Pass	98.2
15	PFUnA_2	2058-94-8	4.27	563.1 / 269.0	189126		4.980	0.146	0.146	Pass	99.6
16	PFDoA	307-55-1	4.66	613.1 / 569.1	1499321		4.942	0.135	0.142	Pass	98.8
17	PFDoA_2	307-55-1	4.66	613.1 / 319.0	201781		4.826	0.135	0.142	Pass	96.5
18	PFTrDA	72629-94-8	5.04	663.1 / 619.1	1468133		5.508	0.154	0.152	Pass	110.2
19	PFTrDA_2	72629-94-8	5.04	663.1 / 169.0	226308		5.528	0.154	0.152	Pass	110.6
20	PFTeDA	376-06-7	5.41	713.1 / 669.1	1228247		4.753	0.163	0.154	Pass	95.1
21	PFTeDA_2	376-06-7	5.41	713.1 / 169.0	200406		4.750	0.163	0.154	Pass	95.0
22	PFBS	375-73-5	1.92	299.1 / 80.1	790686		4.409	0.379	0.374	Pass	99.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.91	299.1 / 99.1	299323		4.786	0.379	0.374	Pass	101.8
24	PFPeS	2706-91-4	2.56	349.1 / 80.1	790665		4.371	0.302	0.314	Pass	93.0
25	PFPeS_2	2706-91-4	2.56	349.1 / 99.1	238693		4.202	0.302	0.314	Pass	89.4
26	PFHxS	355-46-4	3.10	399.1 / 80.1	688531	M5	4.168	0.298	0.306	Pass	91.4
27	PFHxS_2	355-46-4	3.10	399.1 / 99.1	205260	M5	4.291	0.298	0.306	Pass	94.1
28	PFHpS	375-92-8	3.58	449.1 / 80.1	742176		4.779	0.309	0.316	Pass	100.4
29	PFHpS_2	375-92-8	3.58	449.1 / 99.1	229530		4.831	0.309	0.316	Pass	101.5
30	PFOS	1763-23-1	4.02	499.1 / 80.1	827434	M5	4.381	0.247	0.244	Pass	94.4
31	PFOS_2	1763-23-1	4.02	499.1 / 99.1	204379	M5	4.307	0.247	0.244	Pass	92.8
32	PFNS	68259-12-1	4.43	549.1 / 80.1	638507		4.965	0.291	0.294	Pass	103.4
33	PFNS_2	68259-12-1	4.43	549.1 / 99.1	185637		5.050	0.291	0.294	Pass	105.2
34	PFDS	335-77-3	4.82	599.1 / 80.1	669556		5.300	0.279	0.290	Pass	110.0
35	PFDS_2	335-77-3	4.82	599.1 / 99.1	186839		5.237	0.279	0.290	Pass	108.7
36	PFDoS	79780-39-5	5.56	699.2 / 80.1	630803		5.480	0.258	0.256	Pass	113.2
37	PFDoS_2	79780-39-5	5.56	699.2 / 99.1	162952		5.492	0.258	0.256	Pass	113.5

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.71	327.1 / 307.1	738655		19.537	0.613	0.650	Pass	104.5
39	4:2FTS_2	757124-72-4	1.71	327.1 / 81.1	453161		18.571	0.613	0.650	Pass	99.3
40	6:2FTS	27619-97-2	2.81	427.2 / 407.2	681442		18.069	0.610	0.620	Pass	95.1
41	6:2FTS_2	27619-97-2	2.81	427.2 / 81.1	415375		17.184	0.610	0.620	Pass	90.4
42	8:2FTS	39108-34-4	3.68	527.2 / 507.2	573949		19.381	0.677	0.676	Pass	100.9
43	8:2FTS_2	39108-34-4	3.68	527.2 / 81.1	388604		19.063	0.677	0.676	Pass	99.3
44	PFOSA	754-91-6	5.26	498.1 / 78.1	1125888	M5	4.924	0.024	0.026	Pass	98.5
45	PFOSA_2	754-91-6	5.26	498.1 / 478.0	27207	M5	4.606	0.024	0.026	Pass	92.1
46	NMeFOSA	31506-32-8	5.99	512.2 / 219.0	274880	M5	4.832	1.385	1.377	Pass	96.6
47	NMeFOSA_2	31506-32-8	5.94	512.2 / 169.0	380587		4.814	1.385	1.377	Pass	96.3
48	NEtFOSA	4151-50-2	6.28	526.2 / 219.0	270241		4.646	1.285	1.292	Pass	92.9
49	NEtFOSA_2	4151-50-2	6.24	526.2 / 169.0	347232		4.784	1.285	1.292	Pass	95.7
50	NMeFOSAA	2355-31-9	4.00	570.2 / 419.1	175565		4.512	0.693	0.697	Pass	90.3
51	NMeFOSAA_2	2355-31-9	4.00	570.2 / 483.0	121634	M5	4.351	0.693	0.697	Pass	87.0
52	NEtFOSAA	2991-50-6	4.21	584.2 / 419.1	166402	M5	4.598	0.573	0.557	Pass	92.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.21	584.2 / 526.2	95402	M5	4.782	0.573	0.557	Pass	95.7
54	NMeFOSE	24448-09-7	5.86	616.1 / 58.9	4083921	M5	48.353	N/A	N/A	N/A	96.7
55	NEtFOSE	1691-99-2	6.15	630.0 / 58.9	5529322	M5	46.264	N/A	N/A	N/A	92.5
56	HFPO-DA	13252-13-6	2.13	285.0 / 169.0	3384475		18.454	0.504	0.501	Pass	92.3
57	HFPO-DA_2	13252-13-6	2.13	285.0 / 184.9	1705214		17.634	0.504	0.501	Pass	88.2
58	ADONA	919005-14-4	2.68	376.9 / 251.0	6932016		19.037	0.609	0.691	Pass	100.7
59	ADONA_2	919005-14-4	2.69	376.9 / 84.8	4220252		17.494	0.609	0.691	Pass	92.6
60	9Cl-PF3ONS	756426-58-1	4.30	530.8 / 351.1	6161100		19.141	0.322	0.332	Pass	102.4
61	9Cl-PF3ONS_2	756426-58-1	4.30	532.8 / 353.0	1983782		18.542	0.322	0.332	Pass	99.2
62	11Cl-PF3OUdS	763051-92-9	5.09	630.9 / 451.0	5663878		20.809	0.320	0.322	Pass	110.1
63	11Cl-PF3OUdS_2	763051-92-9	5.09	632.9 / 452.9	1812003		20.740	0.320	0.322	Pass	109.7
64	3:3FTCA	356-02-5	1.58	241.1 / 177.1	336761		25.715	0.957	1.010	Pass	102.9
65	3:3FTCA_2	356-02-5	1.58	241.1 / 117.0	322242		22.661	0.957	1.010	Pass	90.6
66	5:3FTCA	914637-49-3	3.04	341.1 / 237.1	6247153		111.582	1.014	1.017	Pass	89.3
67	5:3FTCA_2	914637-49-3	3.04	341.1 / 217.0	6332913		112.263	1.014	1.017	Pass	89.8

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.08	441.1 / 316.9	5744966		124.557	1.268	1.343	Pass	99.7
69	7:3FTCA_2	812-70-4	4.08	441.1 / 337.1	7282000		119.436	1.268	1.343	Pass	95.6
70	PFEESA	113507-82-7	2.22	315.1 / 135.0	4465302		7.674	0.089	0.081	Pass	86.0
71	PFEESA_2	113507-82-7	2.22	315.1 / 82.9	398338		8.324	0.089	0.081	Pass	93.3
72	PFMPA	377-73-1	0.75	229.0 / 85.0	1721374		9.641	N/A	N/A	N/A	96.4
73	PFMBA	863090-89-5	1.44	279.0 / 85.0	1933984		9.963	N/A	N/A	N/A	99.6
74	NFDHA	151772-58-6	1.84	295.0 / 201.0	1426642		9.367	0.691	0.681	Pass	93.7
75	NFDHA_2	151772-58-6	1.84	295.0 / 84.9	985588		9.143	0.691	0.681	Pass	91.4
76	TDCA	516-50-7	2.67	499.1 / 124.1	1913256		8.973	5.224	5.680	Pass	89.7
77	TDCA_2	516-50-7	2.67	499.1 / 79.9	9994726		8.320	5.224	5.680	Pass	83.2
78	13C2D4-4:2FTS	Surr	1.70	333.2 / 312.1	165731		5.710	N/A	N/A	N/A	114.2
79	13C2-PFOA	Surr	2.99	415.0 / 370.0	489589		3.009	N/A	N/A	N/A	120.4

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.59	217.0 / 172.0	1909993		10.254	NA	NA	NA	102.5

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.17	268.0 / 223.0	883646		4.838	NA	NA	NA	96.8
	13C5-PFHxA	EIS	1.91	318.0 / 273.0	437103		2.546	NA	NA	NA	101.8
	13C4-PFHpA	EIS	2.50	367.0 / 322.0	425463		2.569	NA	NA	NA	102.7
	13C8-PFOA	EIS	2.99	420.8 / 376.0	706860		2.417	NA	NA	NA	96.7
	13C9-PFNA	EIS	3.44	472.0 / 427.0	315032		1.280	NA	NA	NA	102.4
	13C6-PFDA	EIS	3.87	519.0 / 474.0	351528		1.358	NA	NA	NA	108.6
	13C7-PFUnA	EIS	4.27	570.0 / 525.0	390095		1.365	NA	NA	NA	109.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.66	615.1 / 570.0	401350		1.396	NA	NA	NA	111.7
	13C2-PFTeDA	EIS	5.40	715.1 / 670.1	284219		1.525	NA	NA	NA	122.0
	13C3-PFBS	EIS	1.91	302.1 / 80.1	393361		2.389	NA	NA	NA	102.6
	13C3-PFHxS	EIS	3.10	402.1 / 80.1	378035		2.584	NA	NA	NA	109.0
	13C8-PFOS	EIS	4.01	507.1 / 80.1	396210		2.559	NA	NA	NA	106.6
	13C2-4:2FTS	EIS	1.71	329.1 / 81.1	115206		4.745	NA	NA	NA	101.2
	13C2-6:2FTS	EIS	2.81	429.2 / 81.1	111603		5.339	NA	NA	NA	112.2
	13C2-8:2FTS	EIS	3.68	529.2 / 81.1	106824		5.449	NA	NA	NA	113.5

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.25	506.1 / 78.1	713833		2.904	NA	NA	NA	116.1
d3-NMeFOSA	EIS	5.98	515.2 / 219.0	126886		2.858	NA	NA	NA	114.3
d5-NEtFOSA	EIS	6.27	531.2 / 219.0	119361		2.957	NA	NA	NA	118.3
d3-NMeFOSAA	EIS	3.99	573.2 / 419.1	214006		7.076	NA	NA	NA	141.5
d5-NEtFOSAA	EIS	4.20	589.3 / 419.1	166919		6.768	NA	NA	NA	135.4
d7-NMeFOSE	EIS	5.83	623.2 / 58.9	932068		29.189	NA	NA	NA	116.8
d9-NEtFOSE	EIS	6.13	639.2 / 58.9	1265196		29.536	NA	NA	NA	118.1

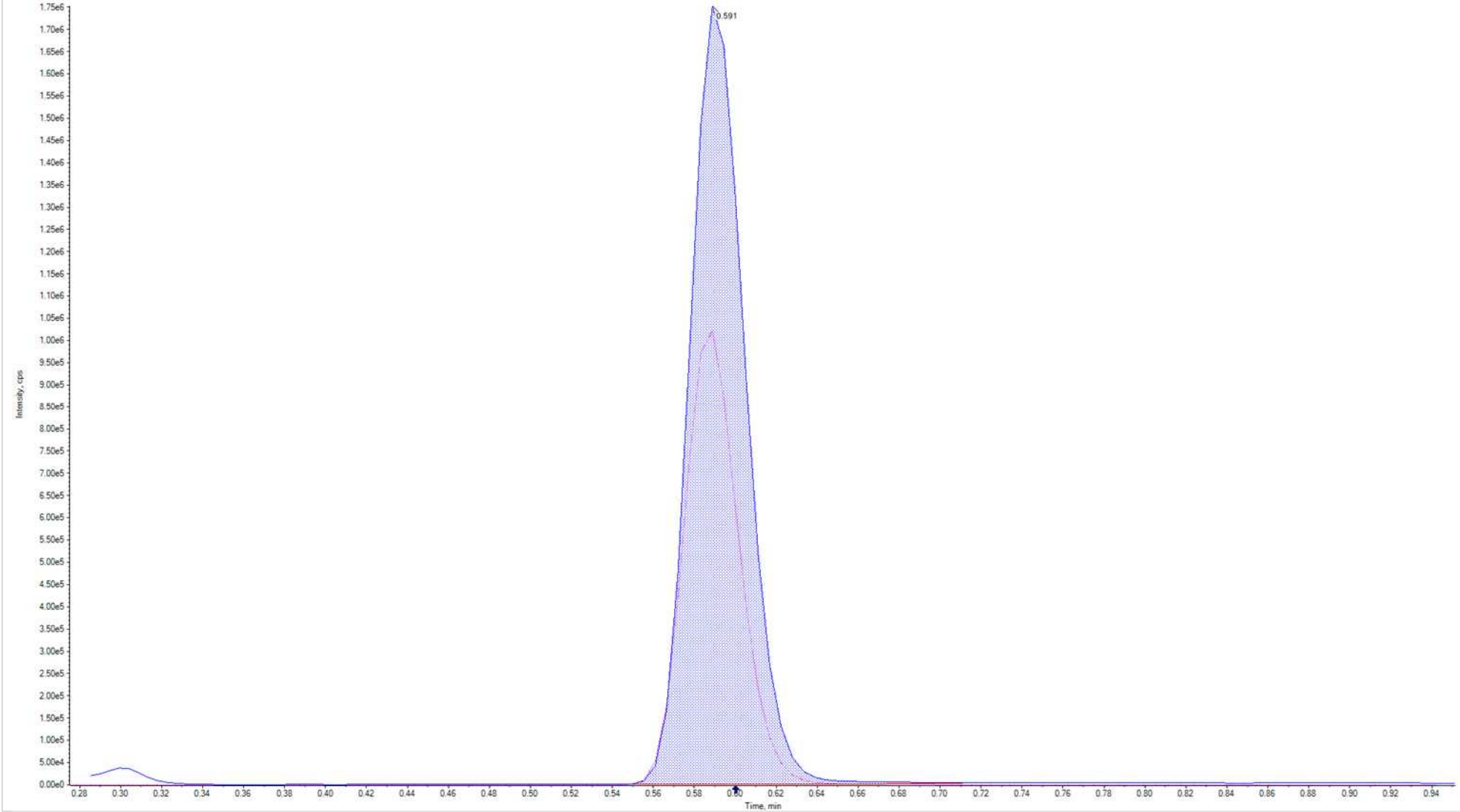
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	13C3-HFPO-DA	EIS	2.13	287.0 / 169.0	1809741		9.964	NA	NA	NA	99.6
	13C3-PFBA	NIS	0.59	216.0 / 172.0	824170		5.686	NA	NA	NA	113.7
	13C2-PFHxA	NIS	1.91	315.0 / 270.0	505635		3.120	NA	NA	NA	124.8
	13C4-PFOA	NIS	2.99	417.0 / 372.0	444546		3.092	NA	NA	NA	123.7
	13C5-PFNA	NIS	3.44	468.0 / 423.0	308227		1.496	NA	NA	NA	119.7
	13C2-PFDA	NIS	3.86	515.1 / 470.1	302158		1.421	NA	NA	NA	113.7
	18O2-PFHxS	NIS	3.09	403.1 / 84.1	307699		2.614	NA	NA	NA	110.3
	13C4-PFOS	NIS	4.01	503.1 / 80.1	311531		2.591	NA	NA	NA	108.0

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

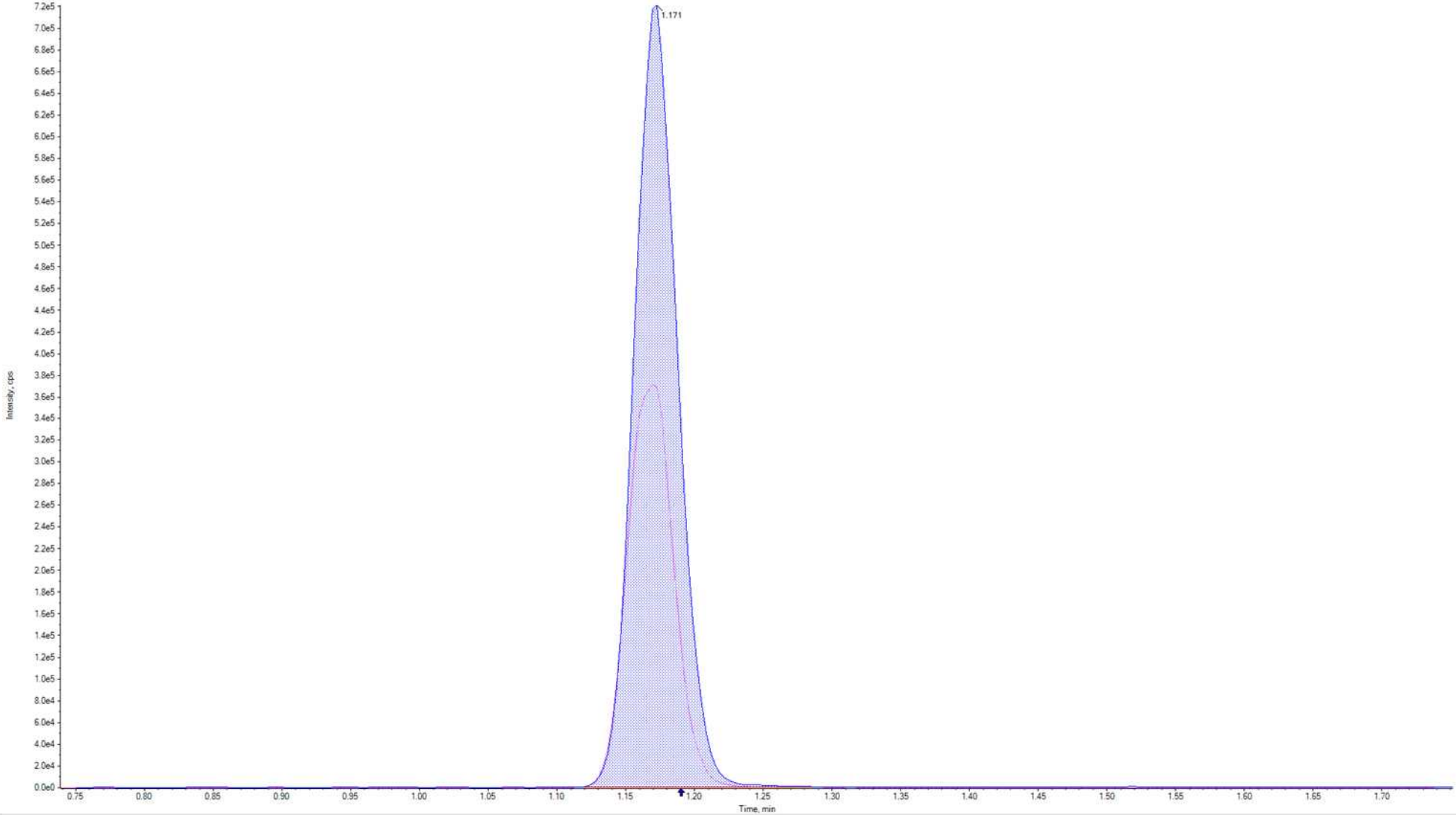
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PFBA
Sample: WG2038851-9,1633FMED S/N:2196.0 Points Across peak:35



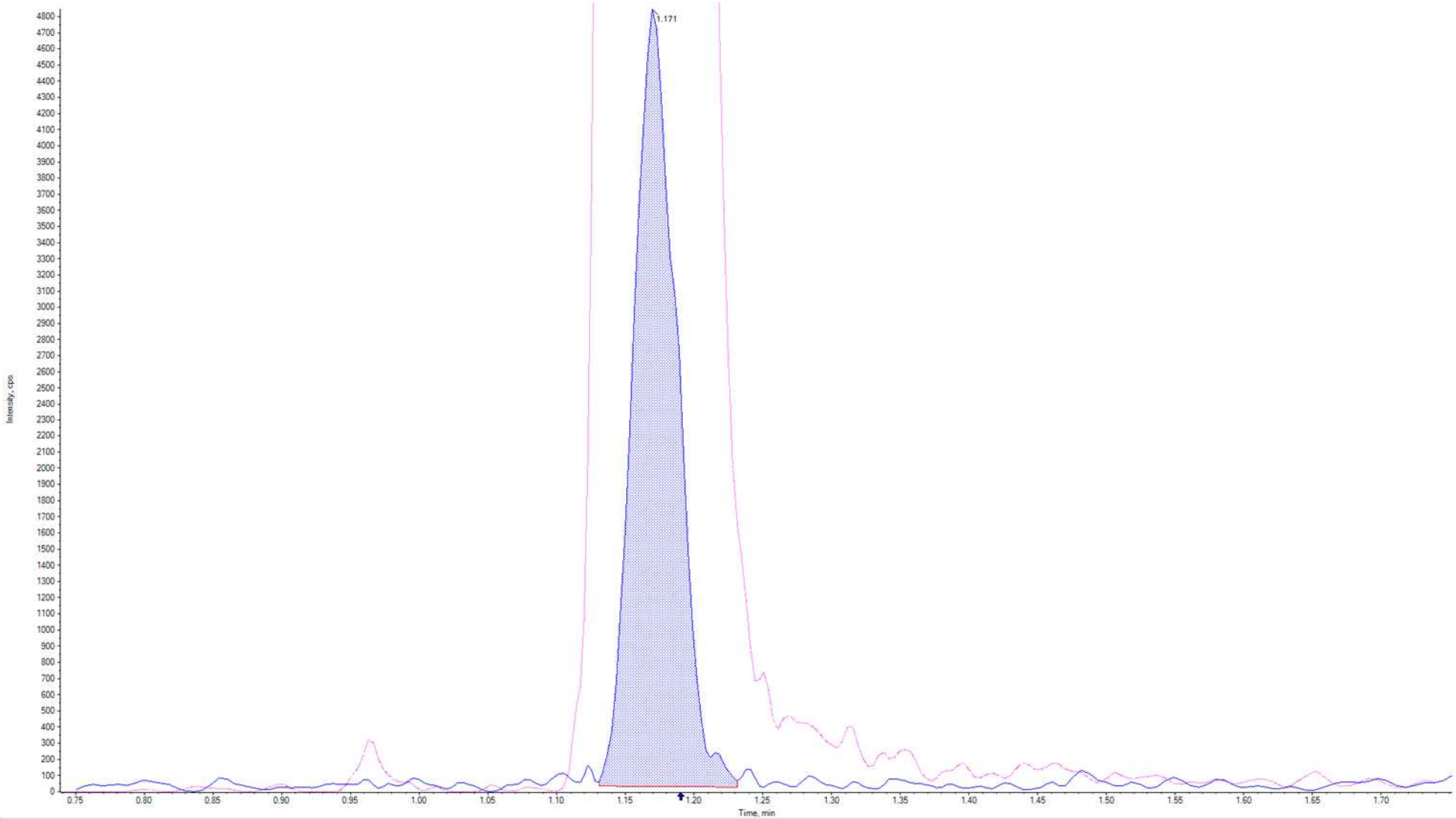
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PFPeA
Sample: WG2038851-9,1633FMED S/N:5572.2 Points Across peak:58



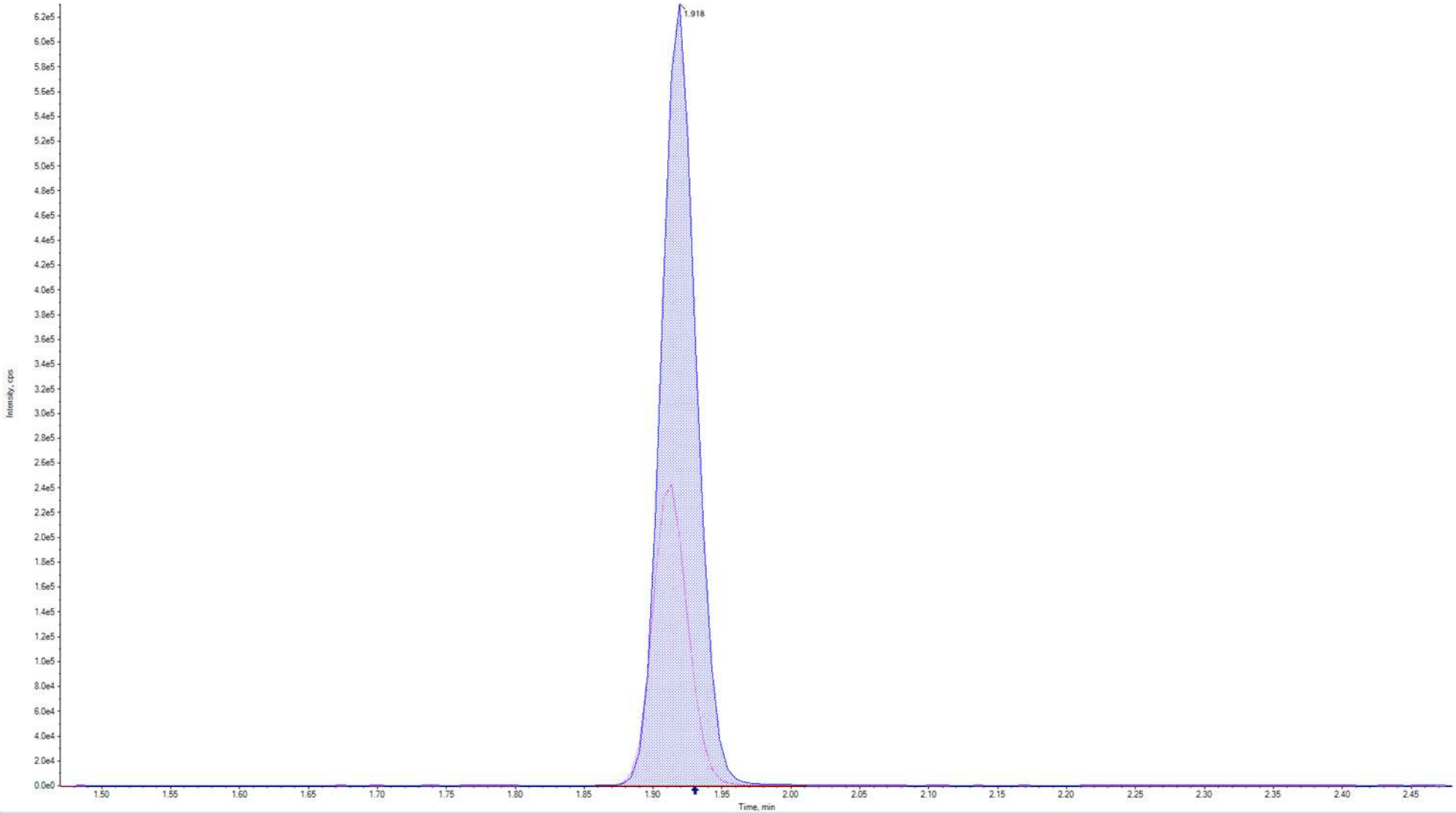
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PFPeA_2
Sample: WG2038851-9,1633FMED S/N:289.5 Points Across peak:32



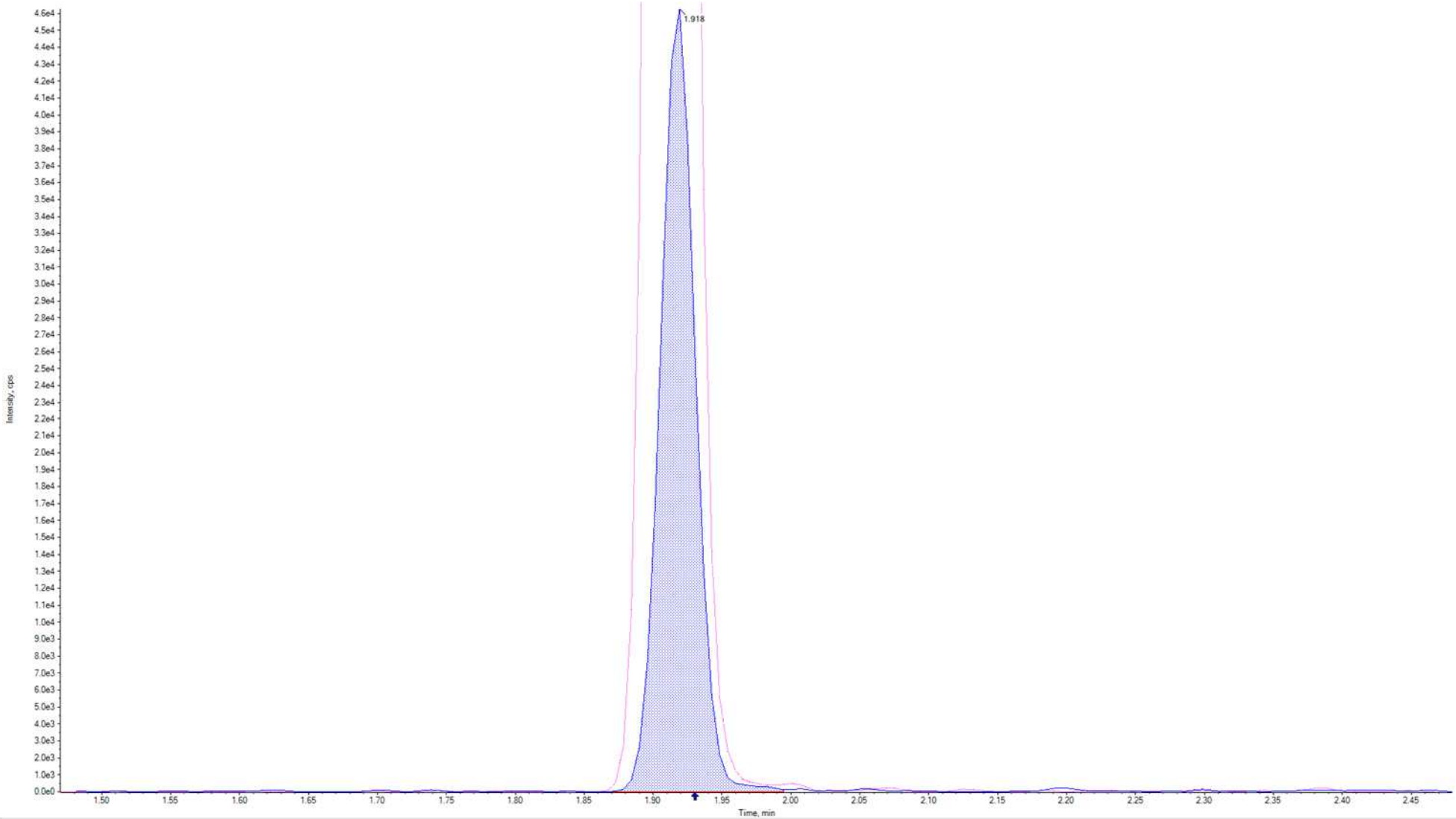
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PFHxA
Sample: WG2038851-9,1633FMED S/N:5219.8 Points Across peak:31



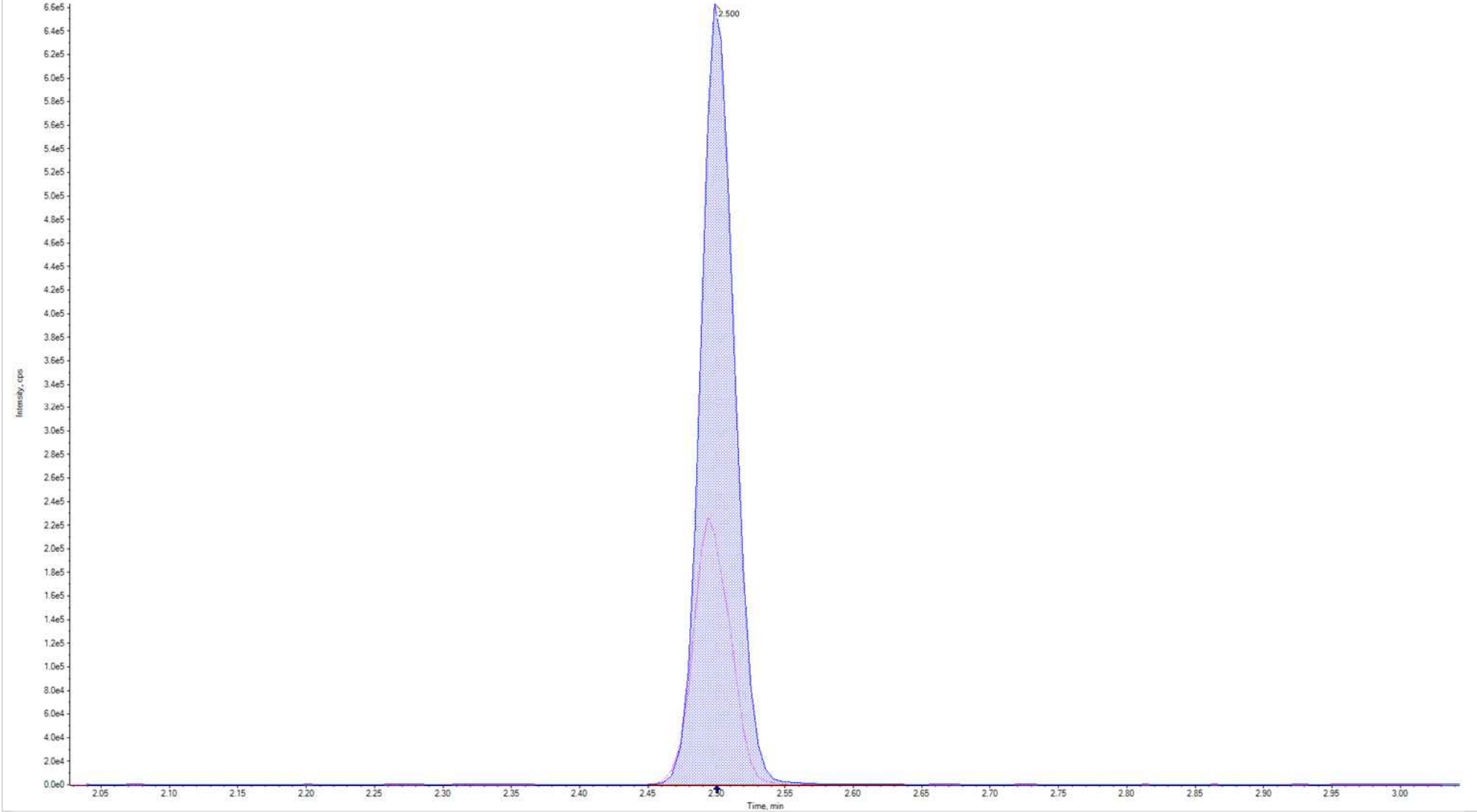
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PFHxA_2
Sample: WG2038851-9,1633FMED S/N:1159.2 Points Across peak:25



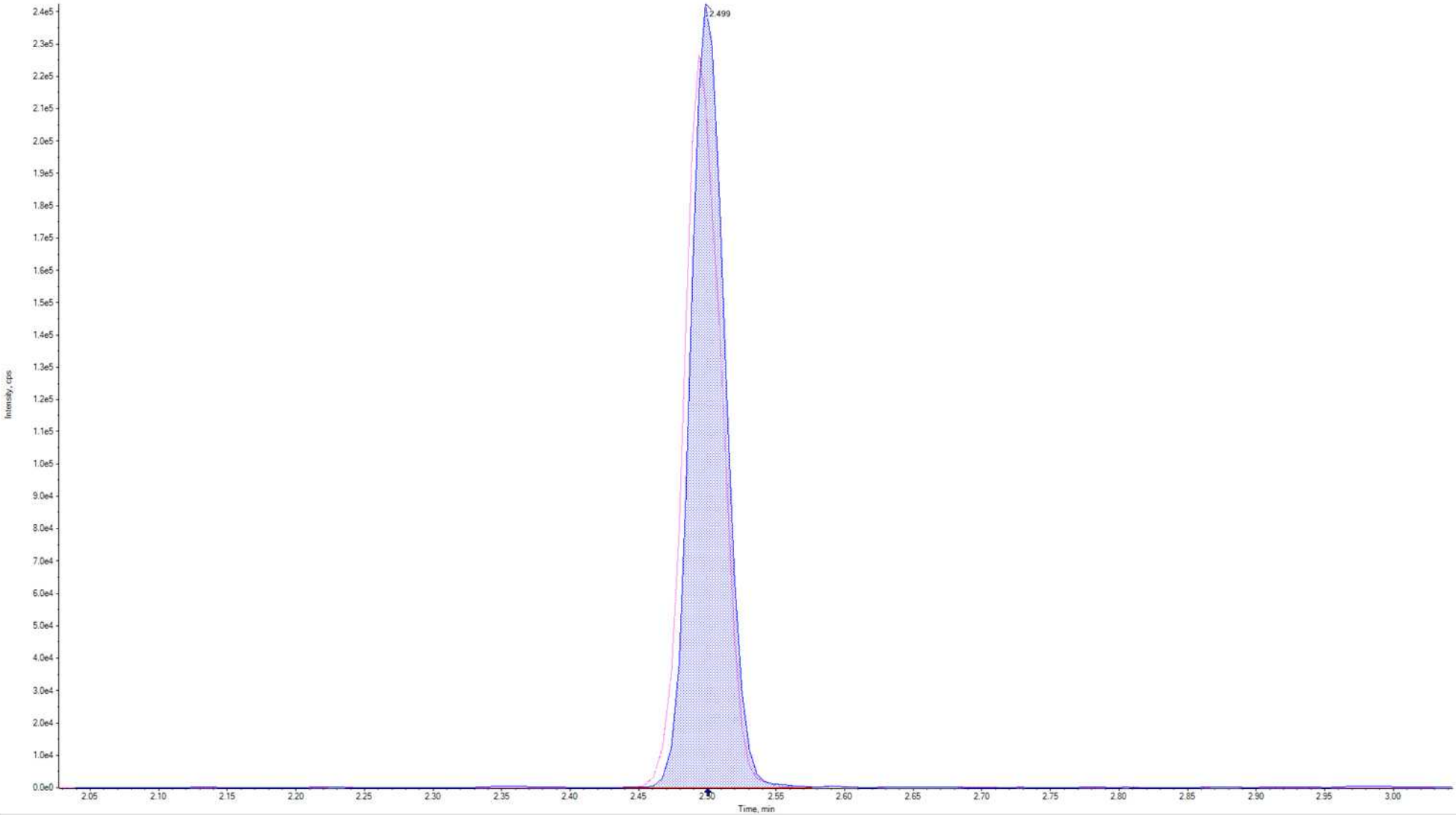
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PFHpA
Sample: WG2038851-9,1633FMED S/N:4004.5 Points Across peak:35



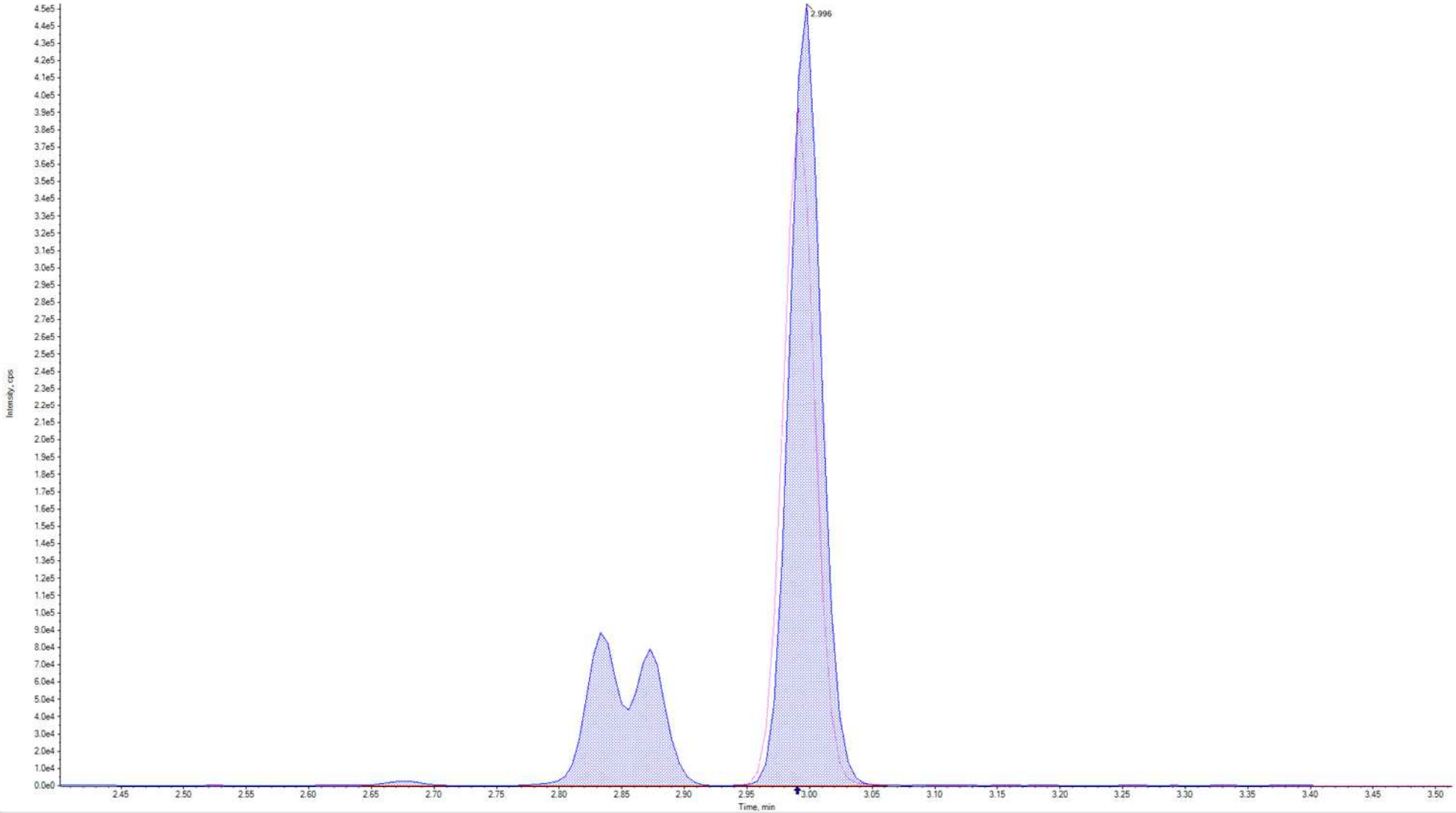
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PFHpA_2
Sample: WG2038851-9,1633FMED S/N:4859.8 Points Across peak:27



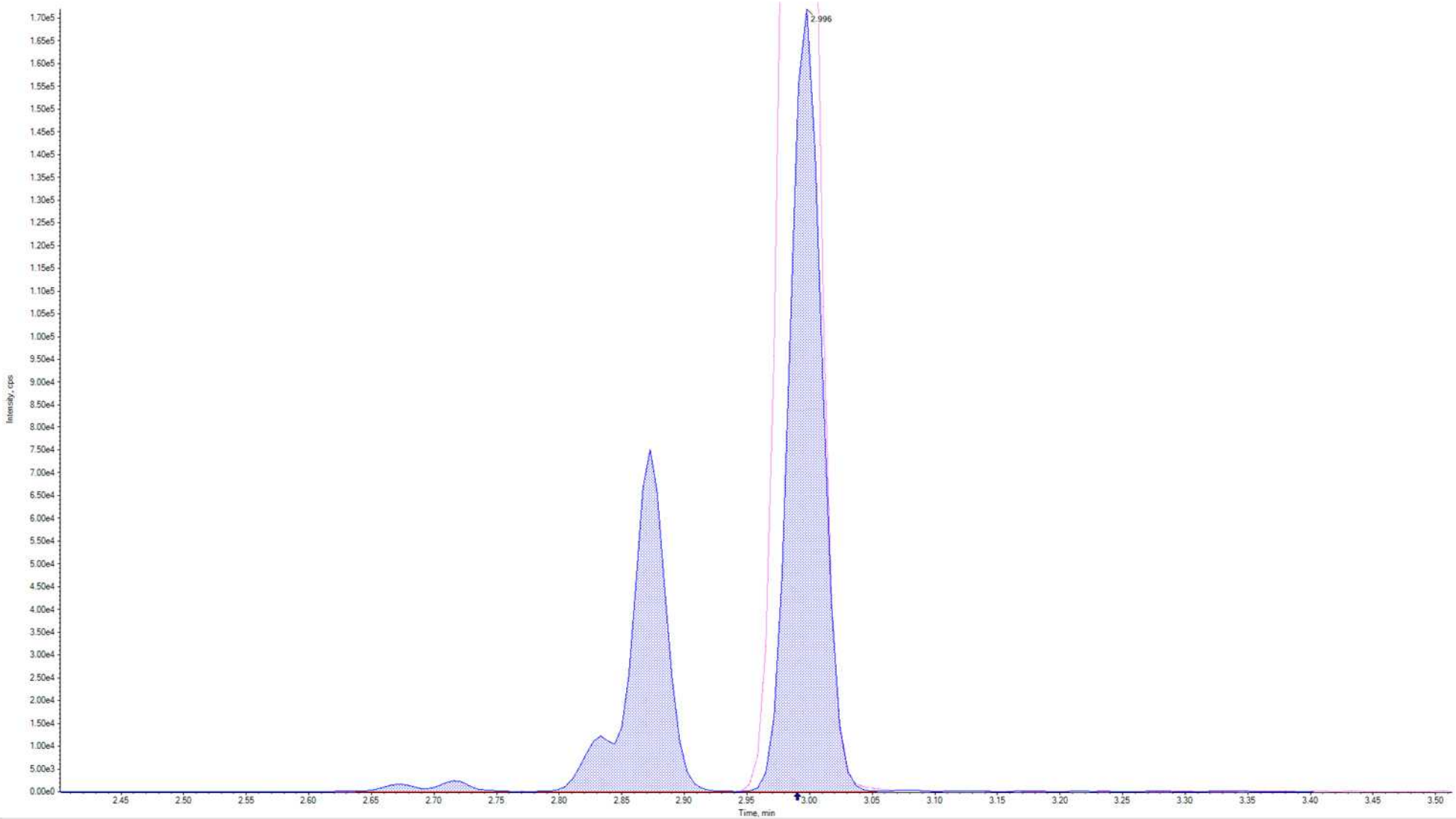
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PFOA
Sample: WG2038851-9,1633FMED S/N:770.9 Points Across peak:71



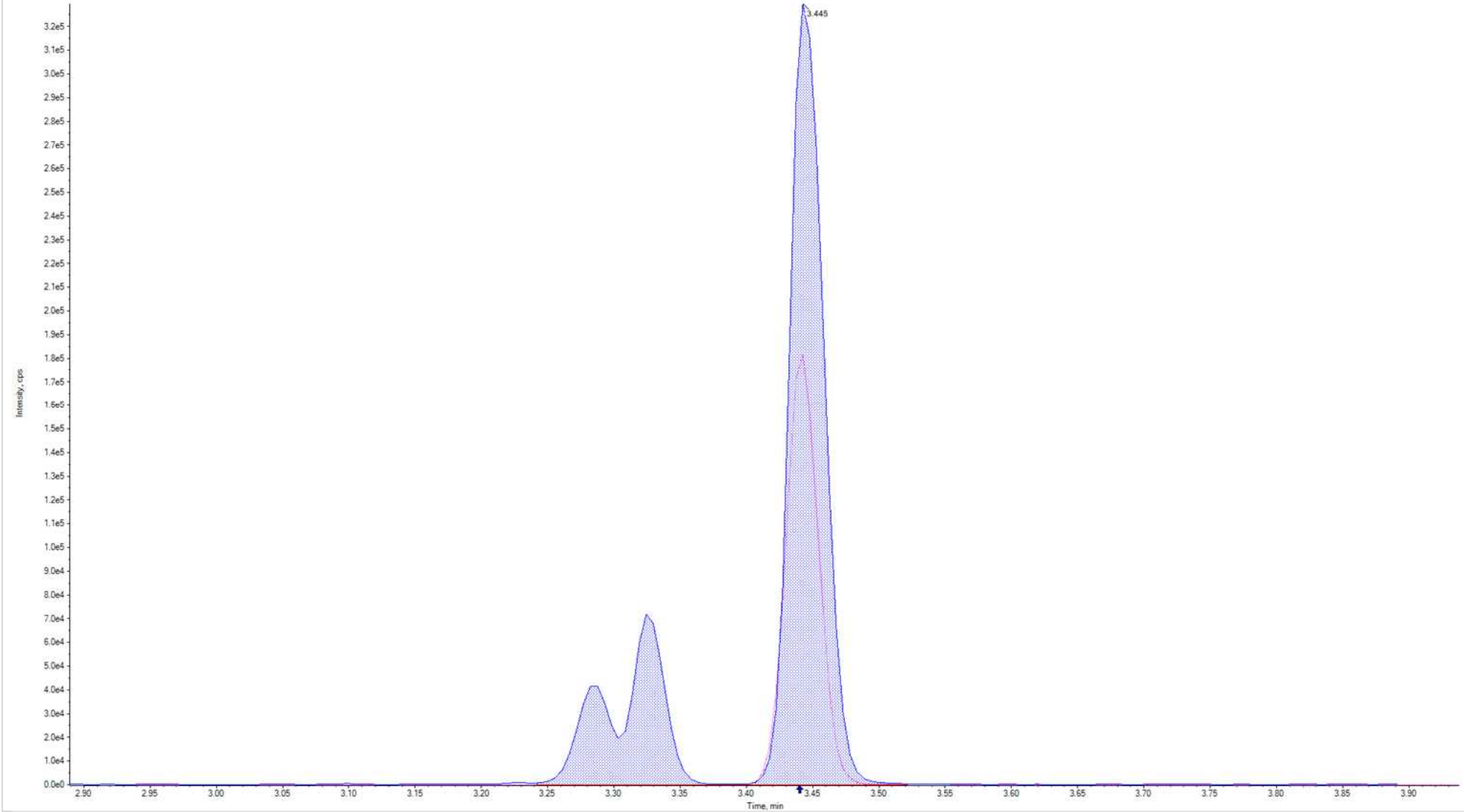
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PFOA_2
Sample: WG2038851-9,1633FMED S/N:578.8 Points Across peak:69



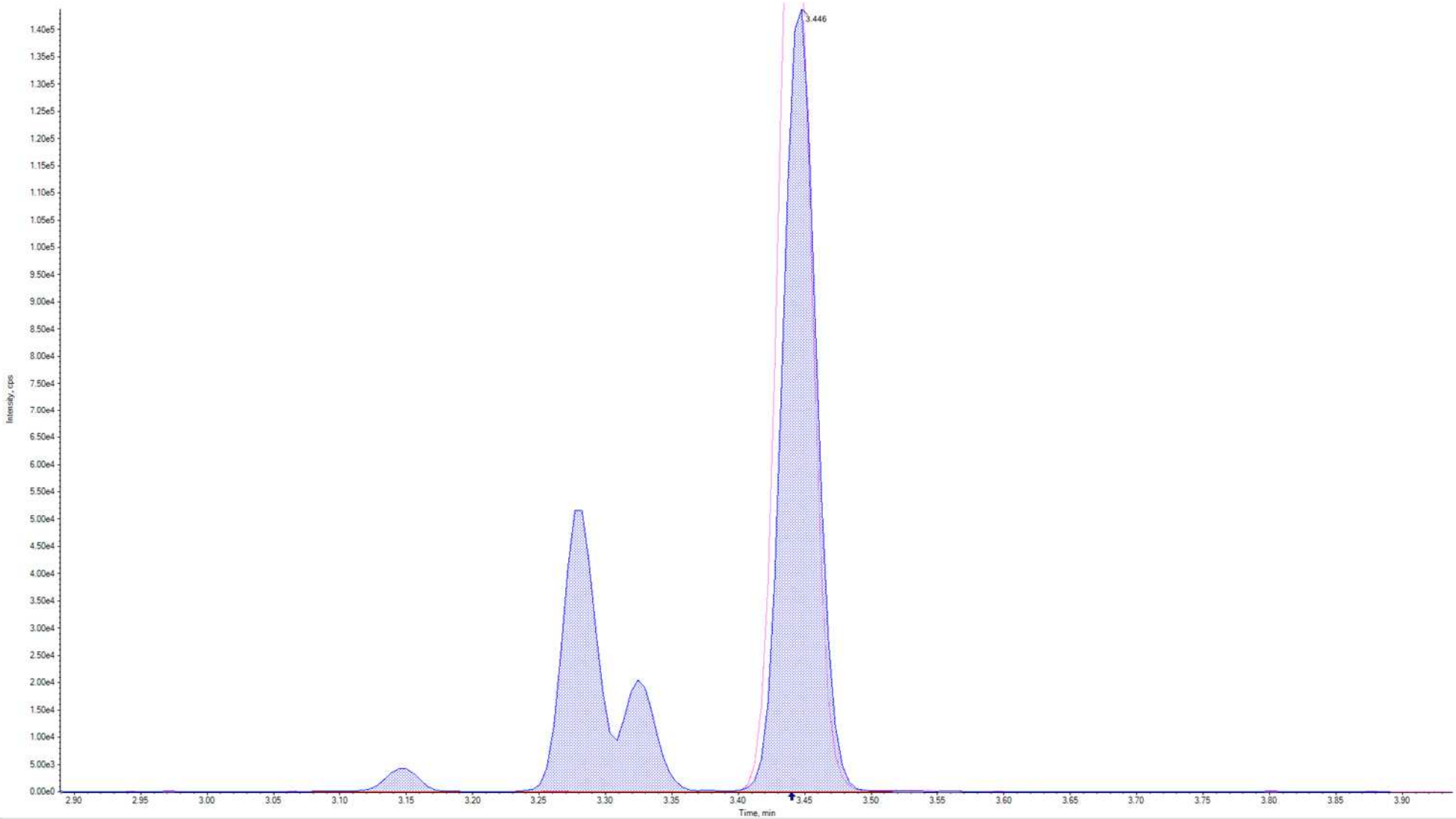
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PFNA
Sample: WG2038851-9,1633FMED S/N:772.7 Points Across peak:55



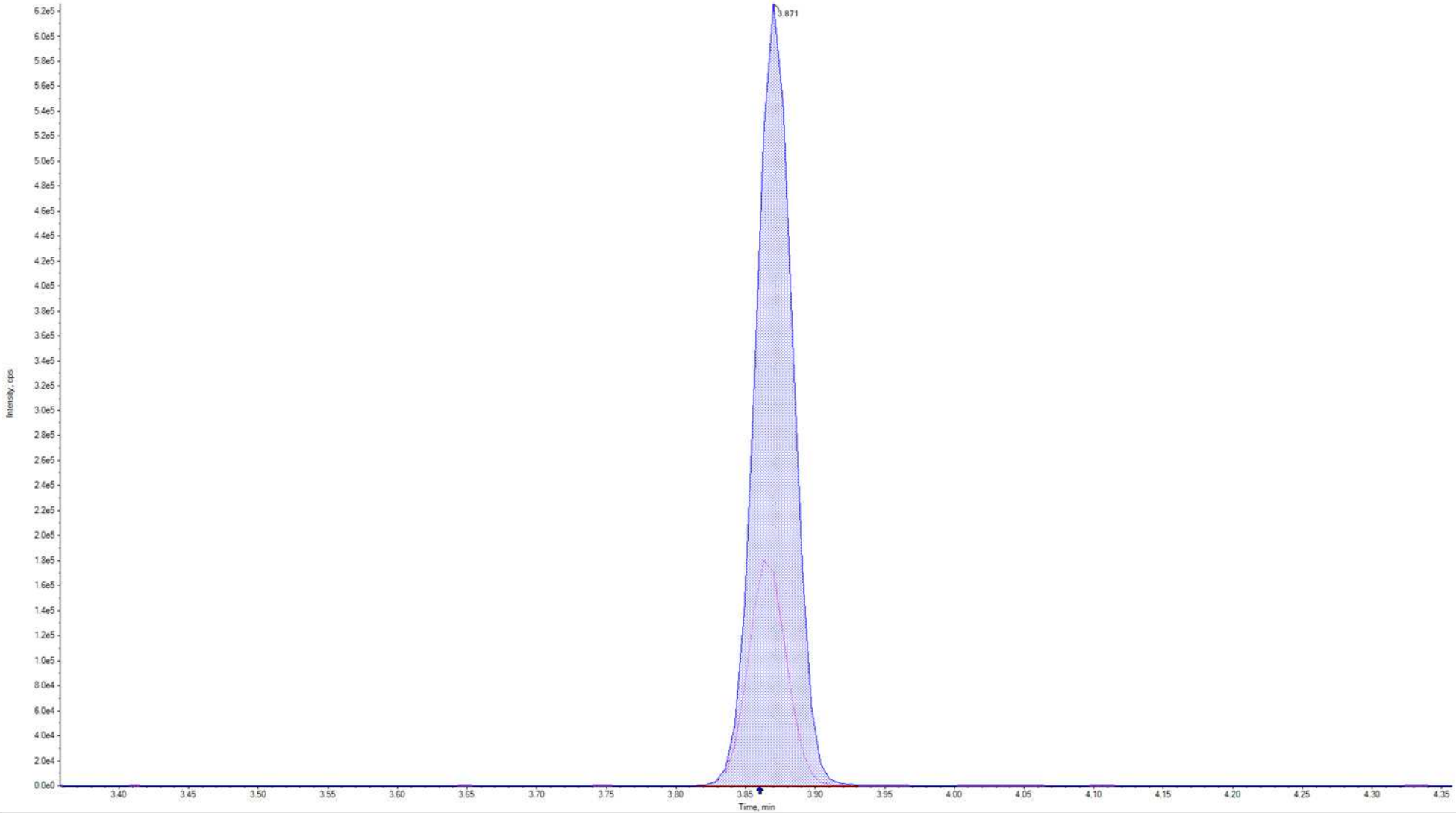
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PFNA_2
Sample: WG2038851-9,1633FMED S/N:578.7 Points Across peak:85



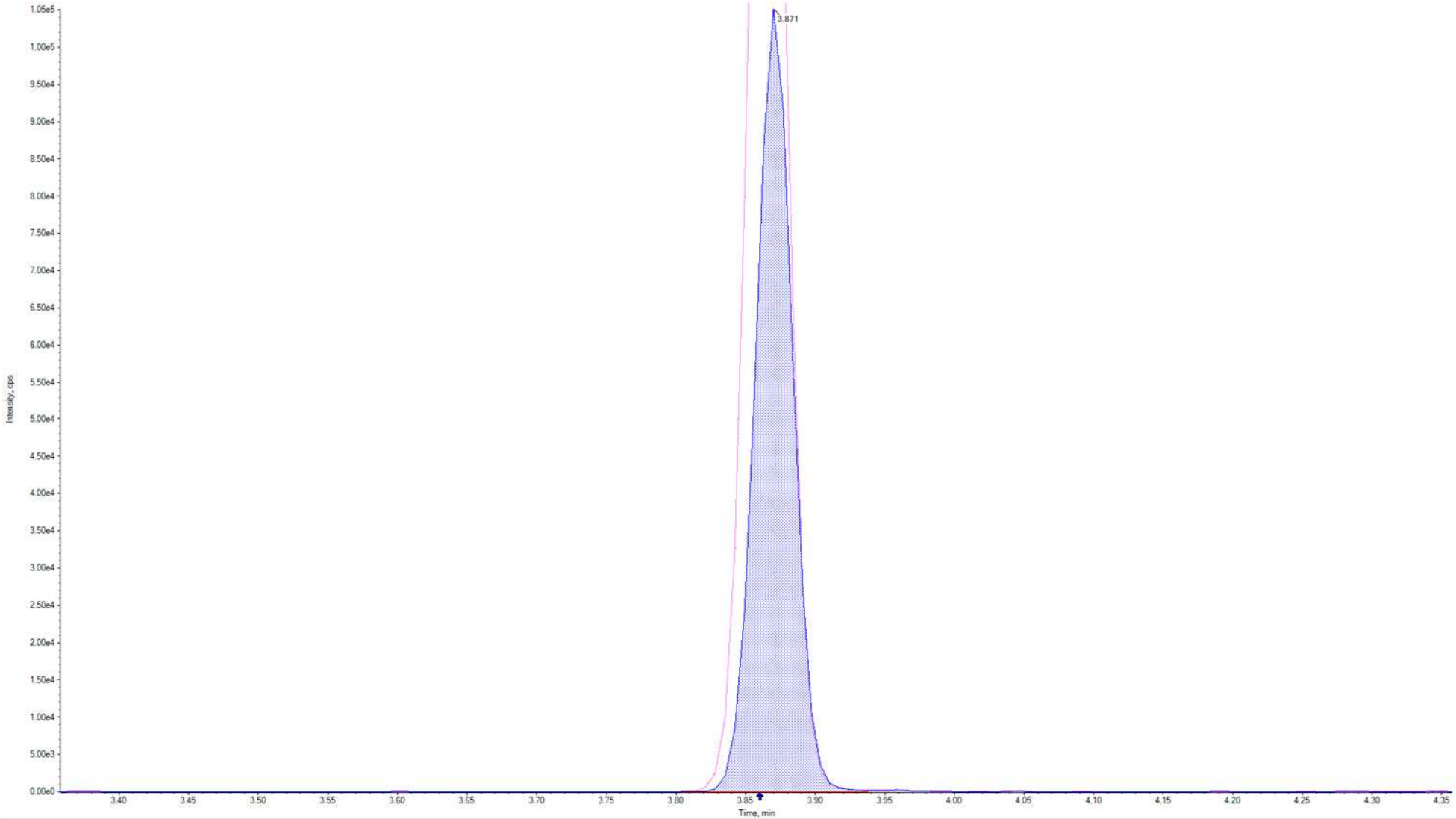
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PFDA
Sample: WG2038851-9,1633FMED S/N:12547.4 Points Across peak:19



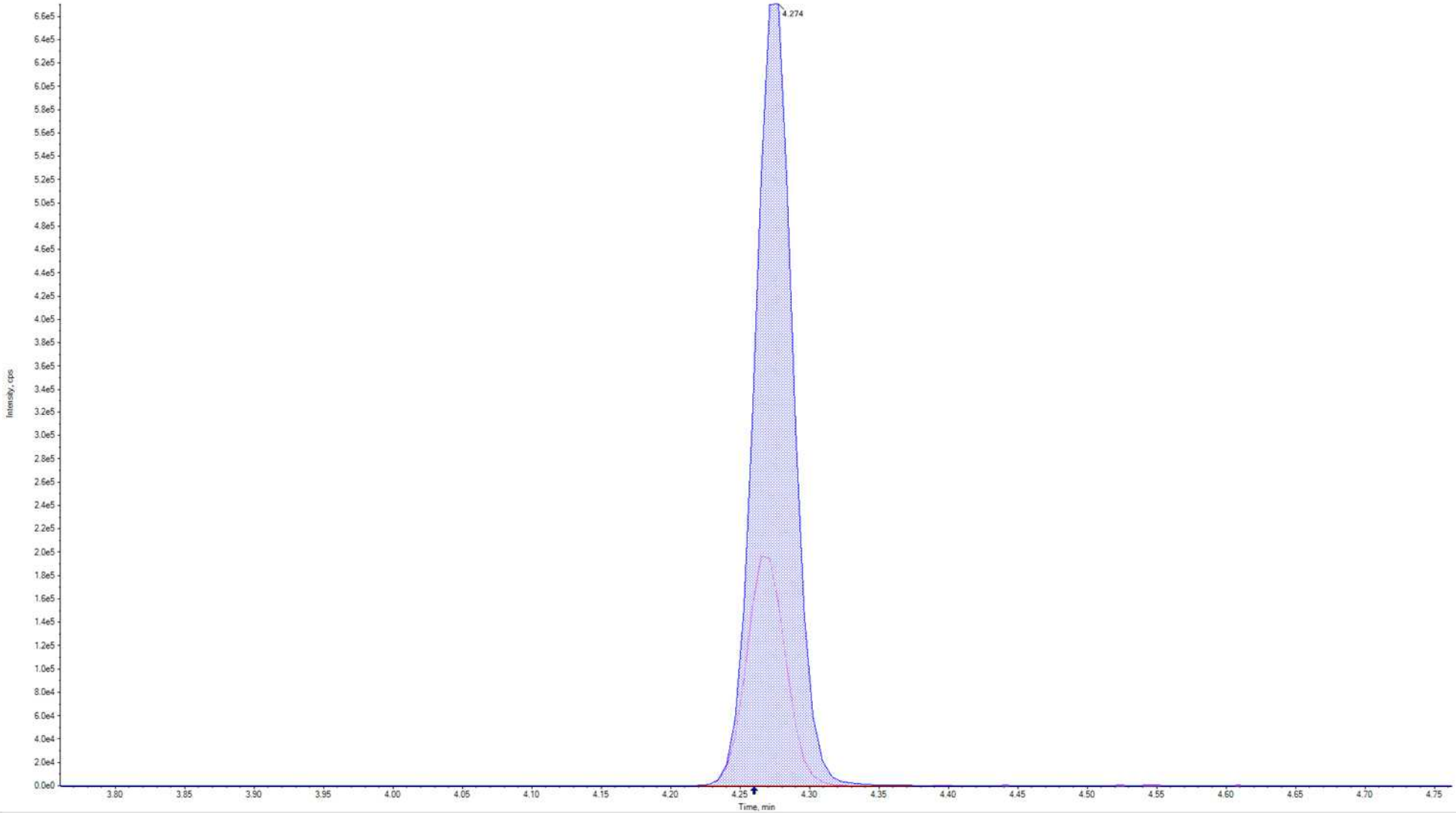
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PFDA_2
Sample: WG2038851-9,1633FMED S/N:2107.5 Points Across peak:23



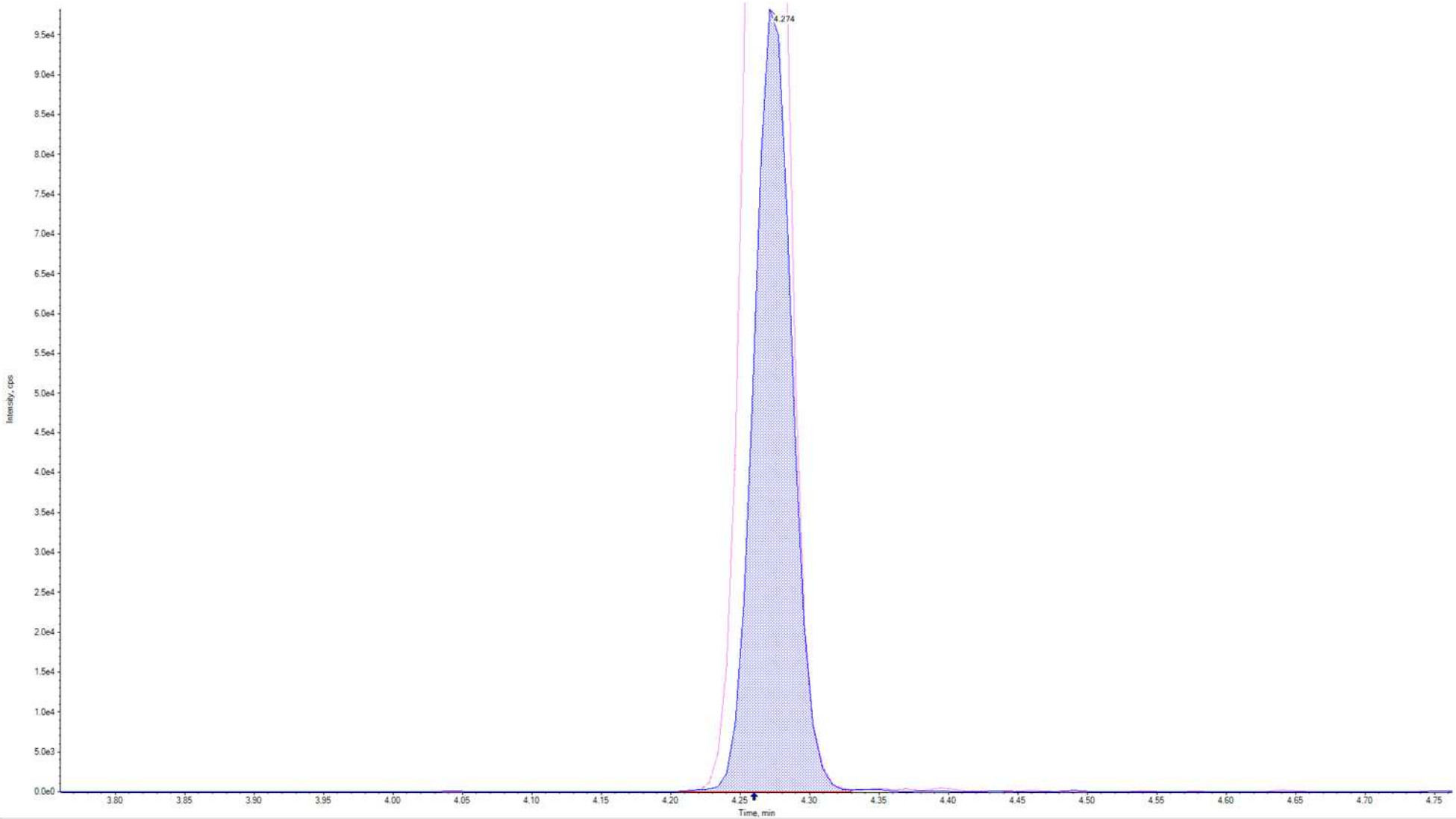
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PFUnA
Sample: WG2038851-9,1633FMED S/N:15125.1 Points Across peak:38



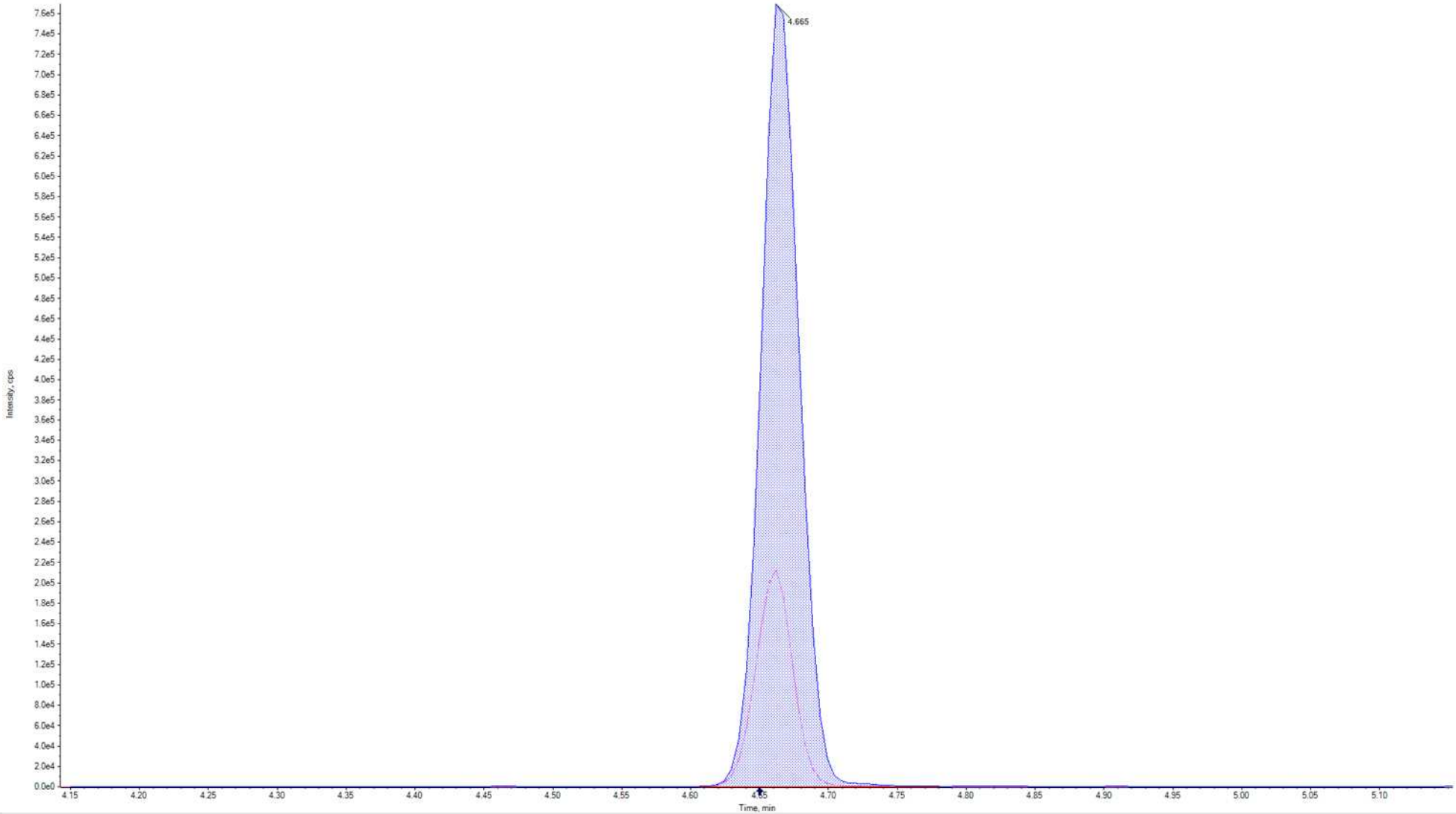
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PFUnA_2
Sample: WG2038851-9,1633FMED S/N:2215.6 Points Across peak:24



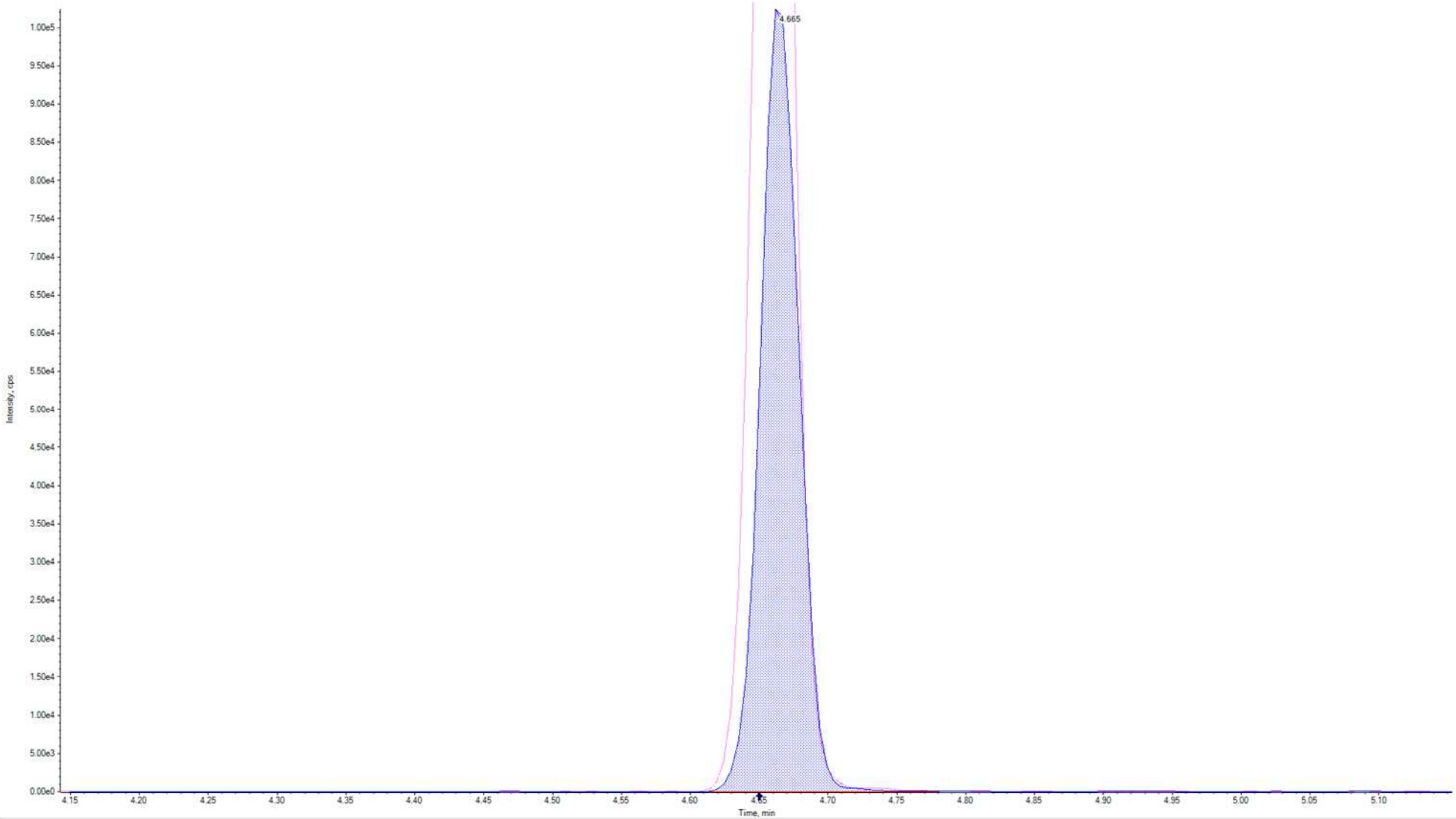
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PFDoA
Sample: WG2038851-9,1633FMED S/N:9788.4 Points Across peak:37



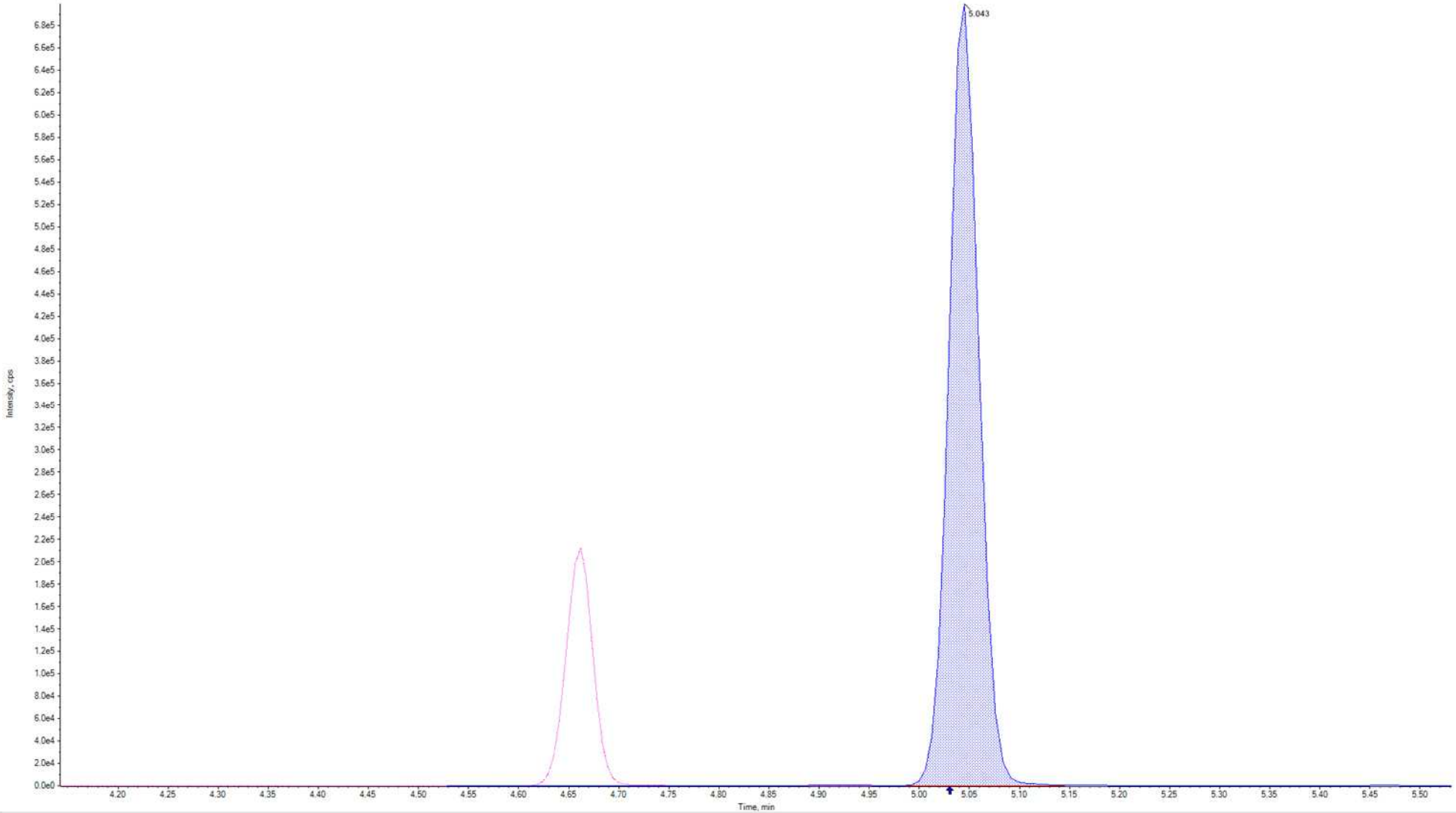
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PFDoA_2
Sample: WG2038851-9,1633FMED S/N:2823.4 Points Across peak:35



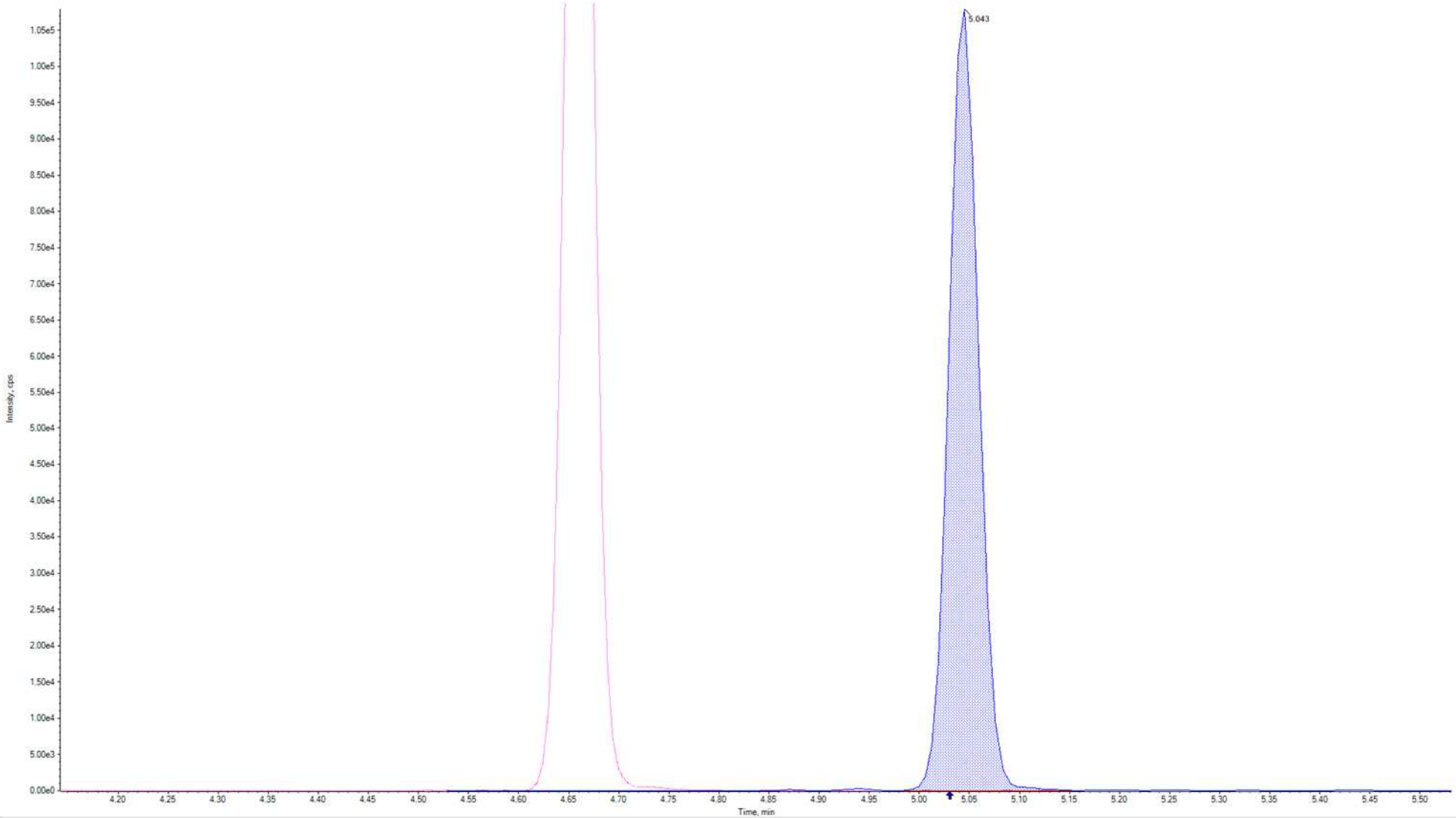
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PFTrDA
Sample: WG2038851-9,1633FMED S/N:6943.2 Points Across peak:25



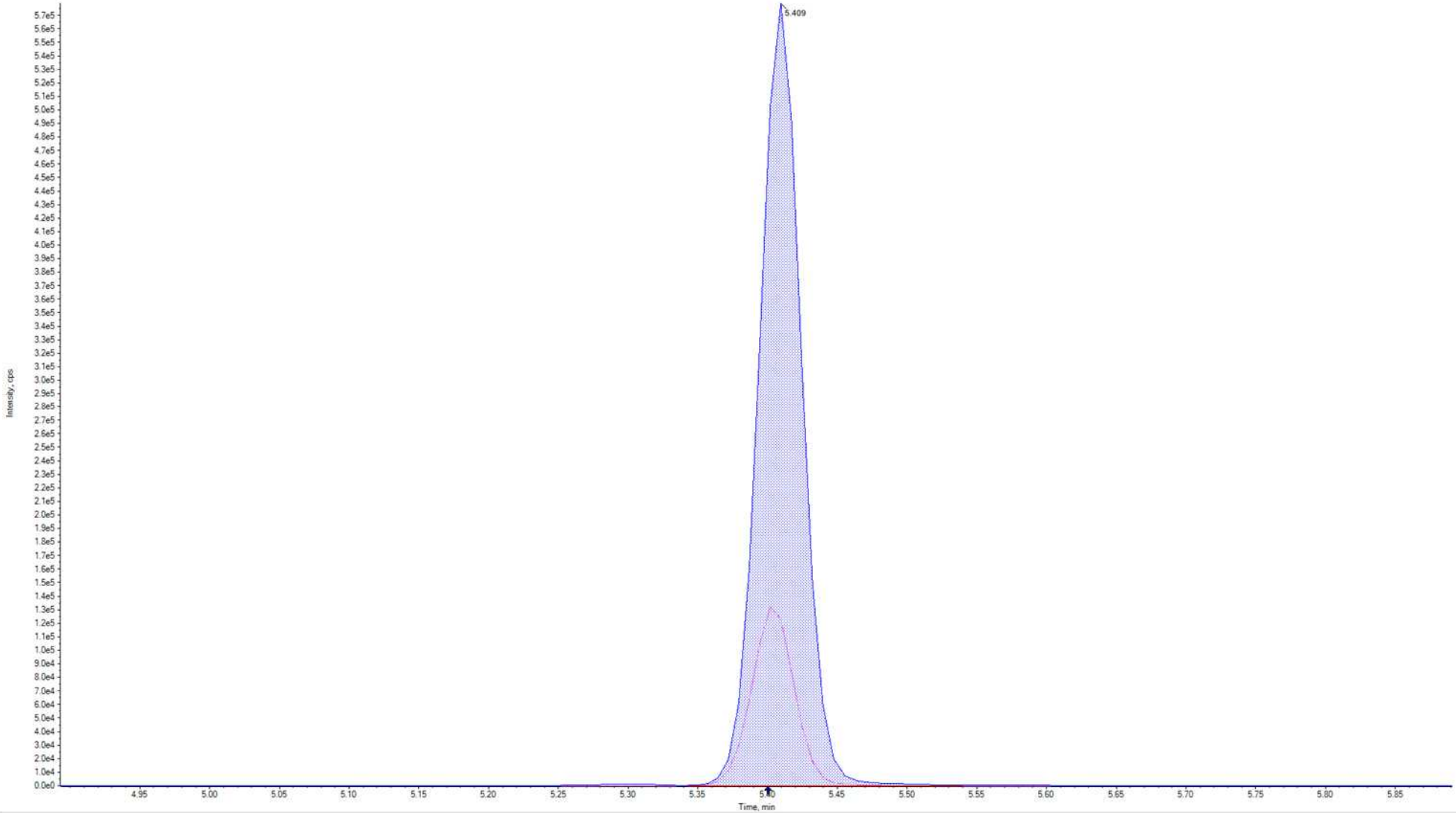
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PFTrDA_2
Sample: WG2038851-9,1633FMED S/N:4327.9 Points Across peak:27



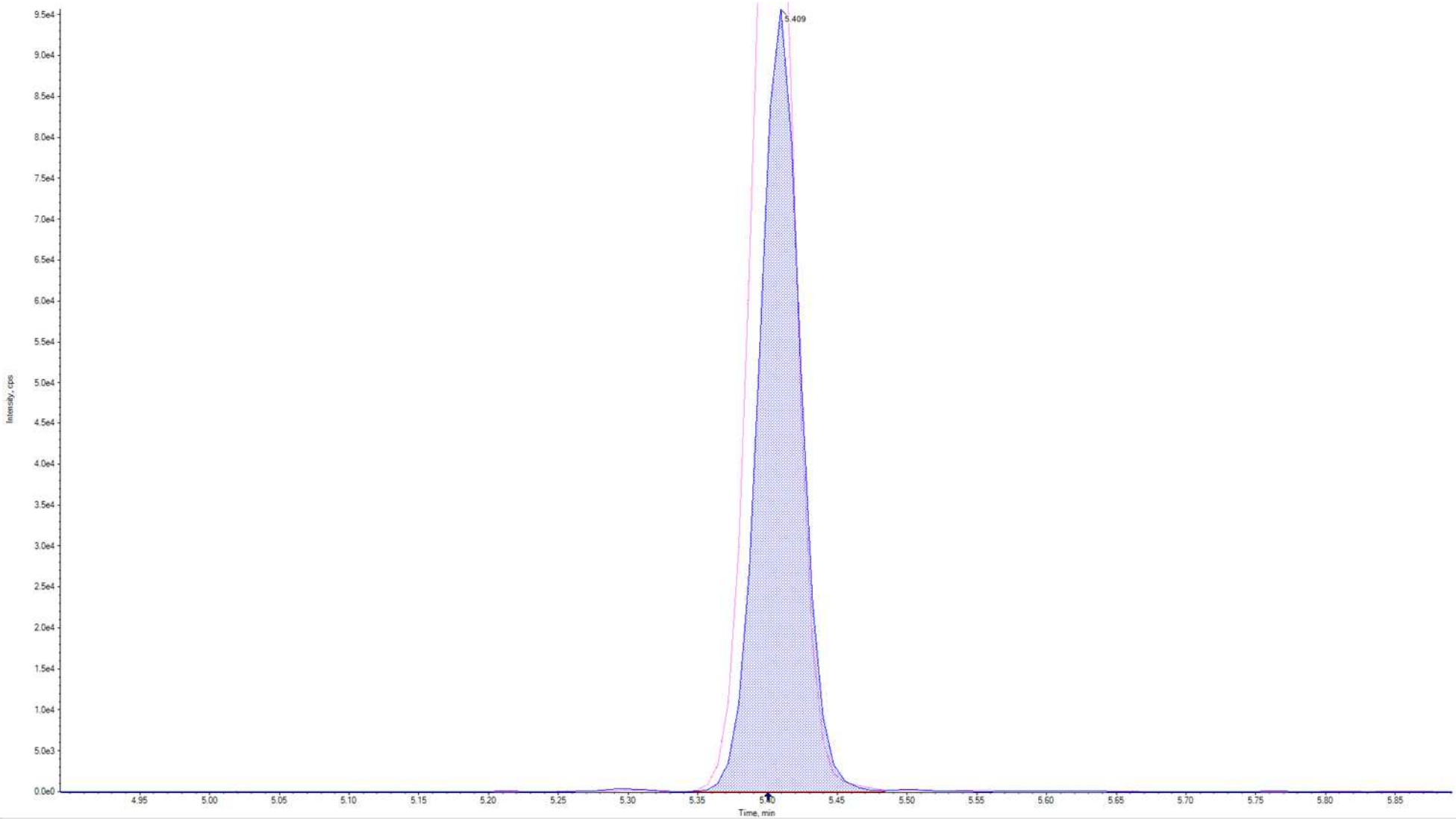
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PFTeDA
Sample: WG2038851-9,1633FMED S/N:4617.0 Points Across peak:25



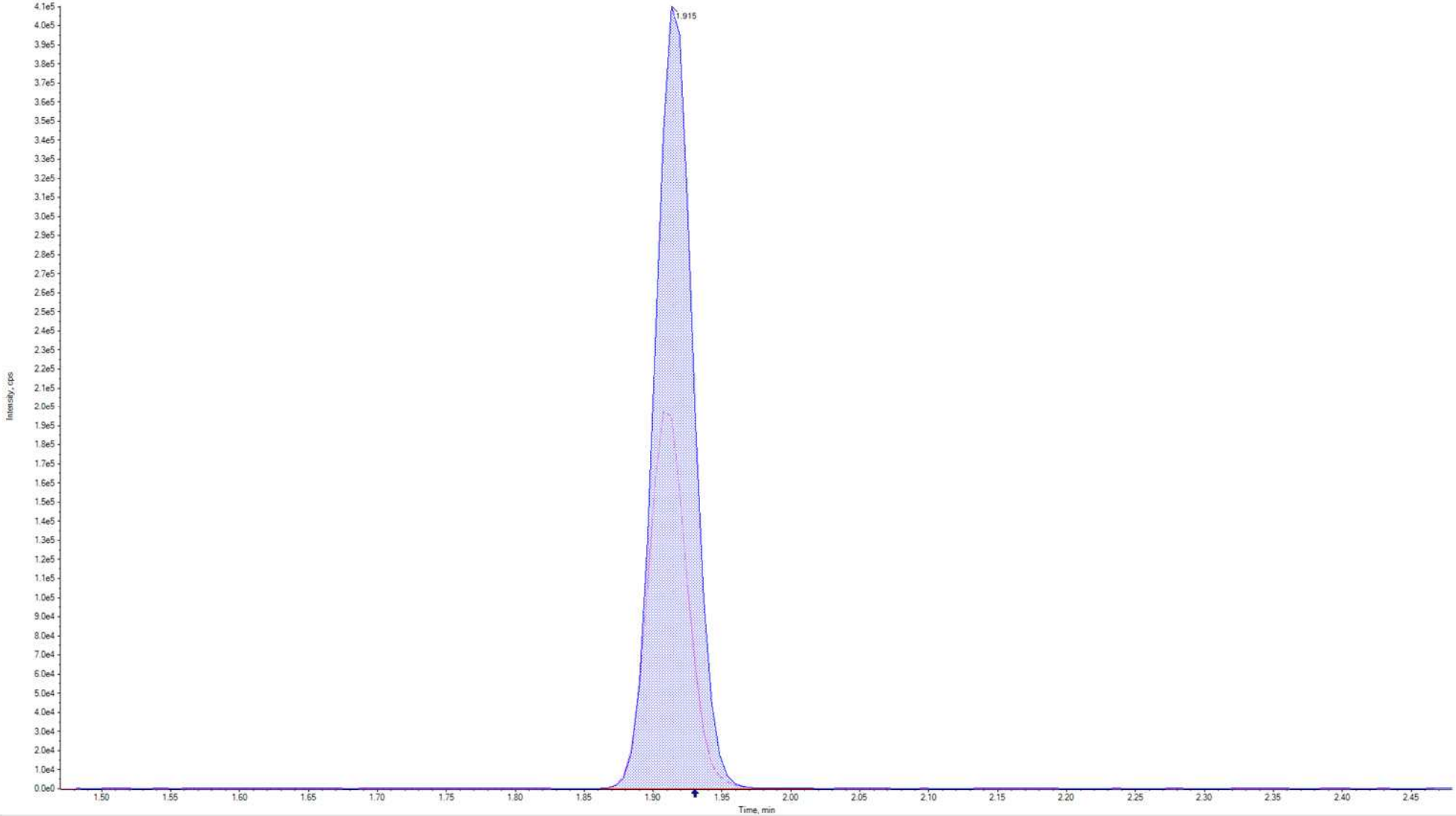
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PFTeDA_2
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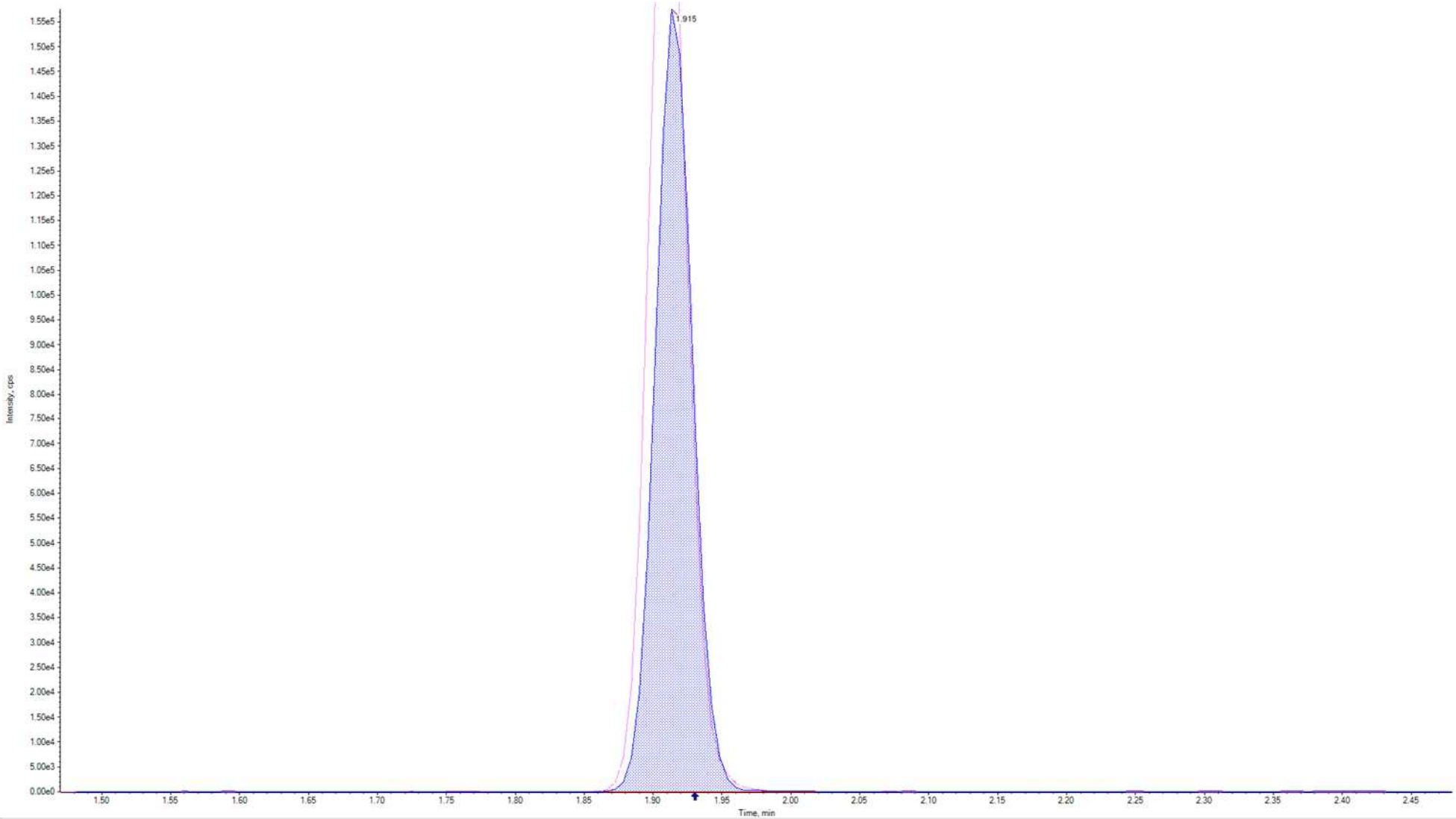
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PFBS
Sample: WG2038851-9,1633FMED S/N:3187.7 Points Across peak:30



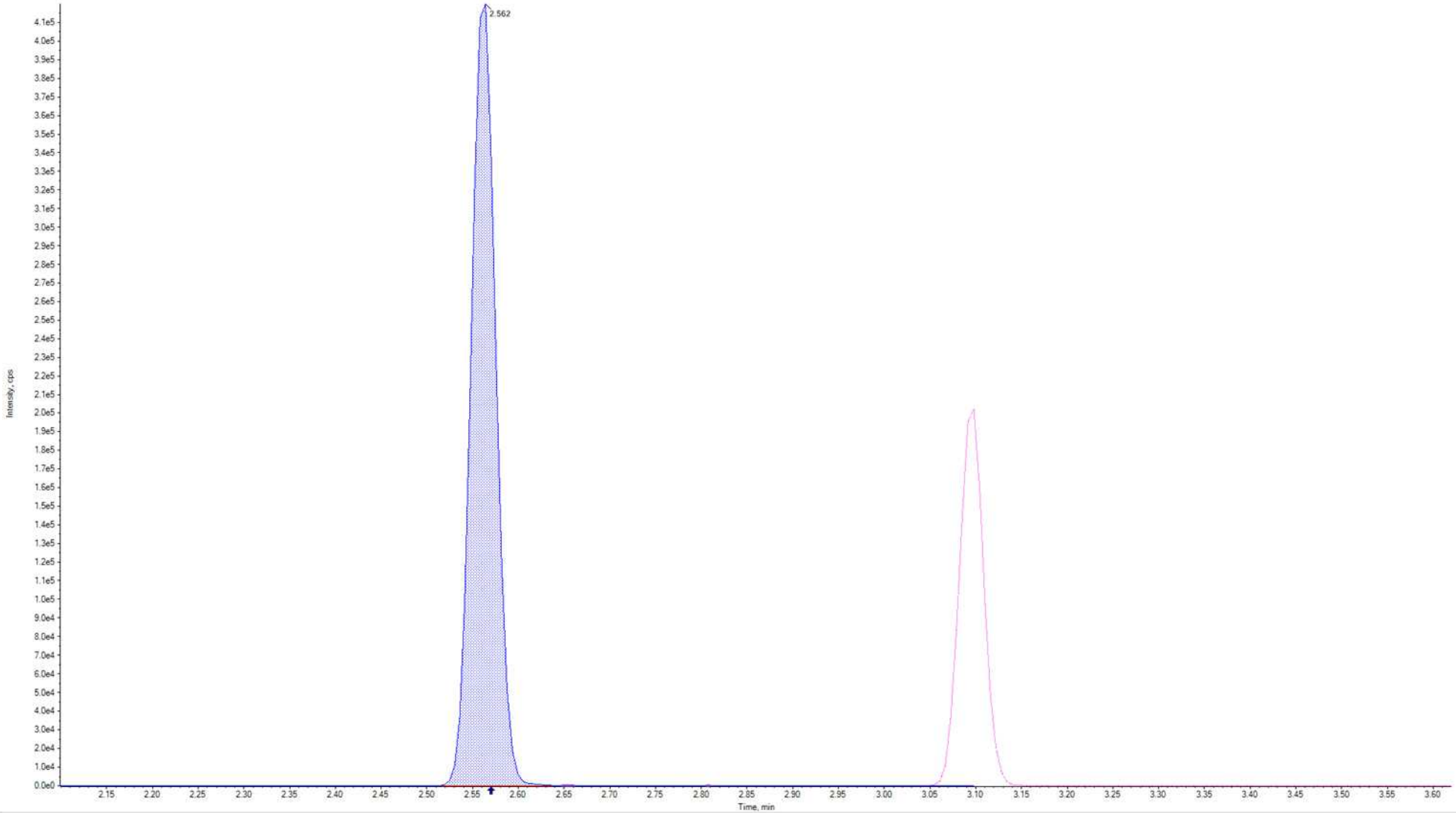
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PFBS_2
Sample: WG2038851-9,1633FMED S/N:3826.1 Points Across peak:30



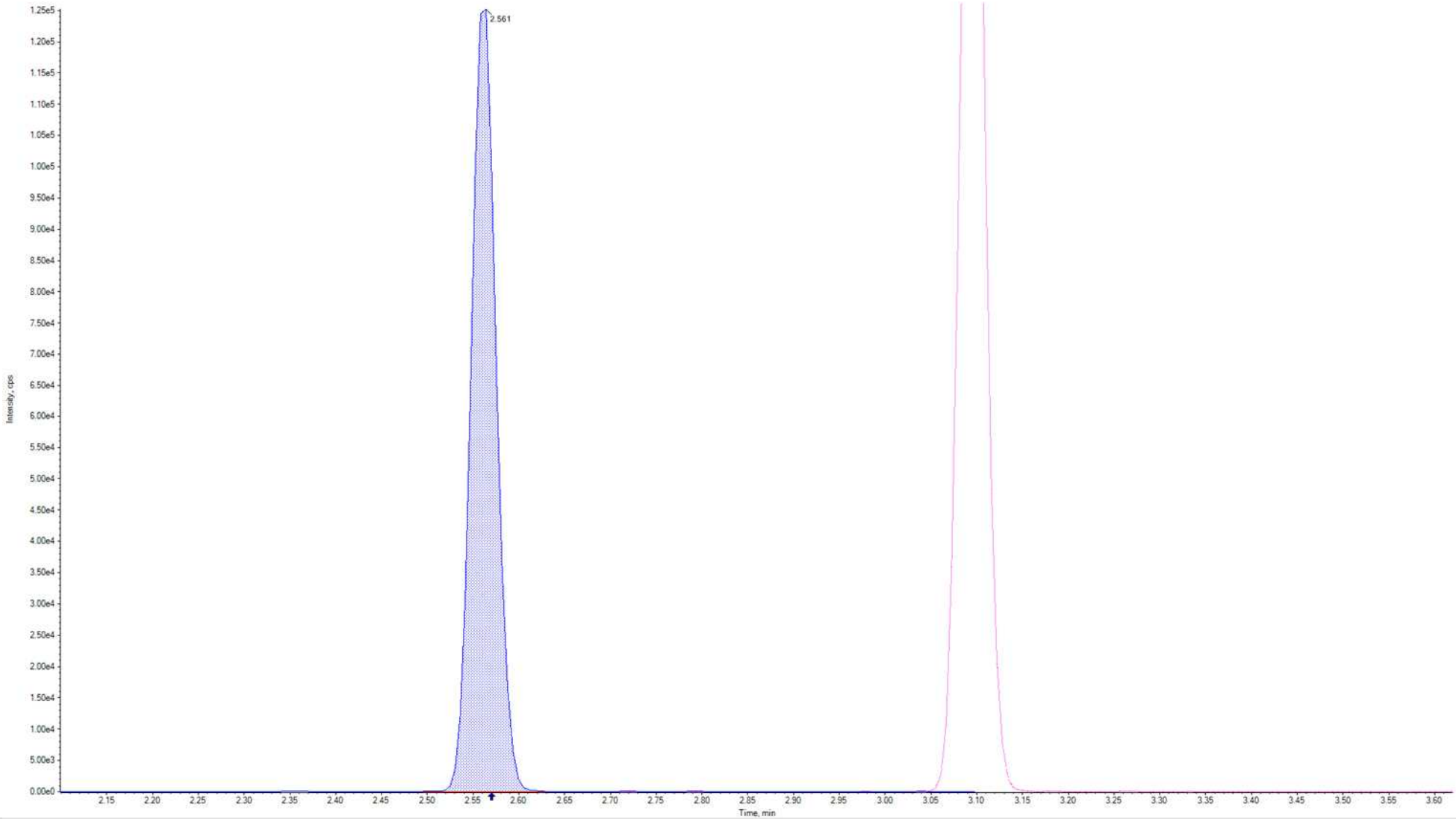
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PFPeS
Sample: WG2038851-9,1633FMED S/N:8420.0 Points Across peak:23



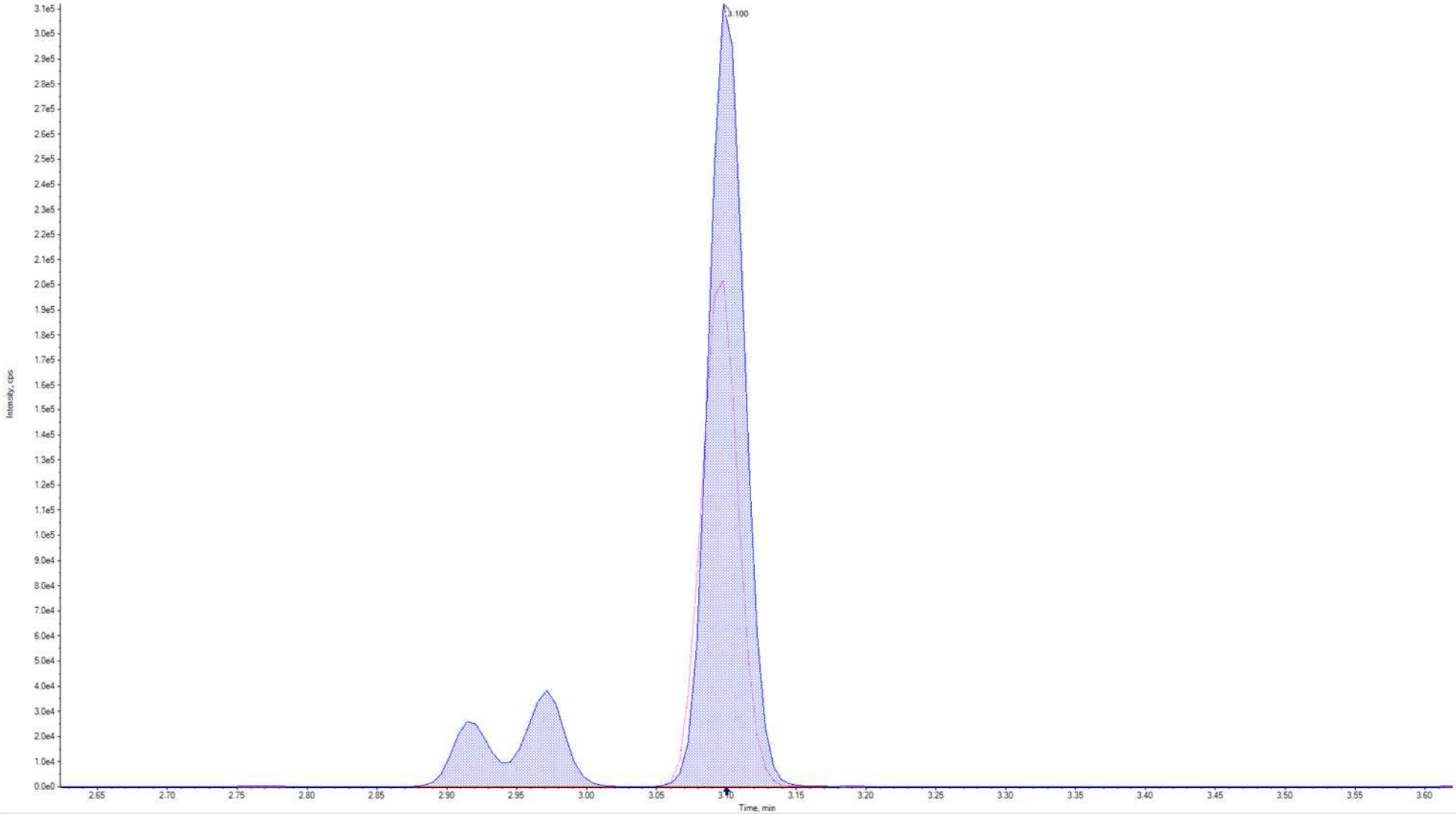
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFPeS_2
Sample: WG2038851-9,1633FMED S/N:2510.7 Points Across peak:30



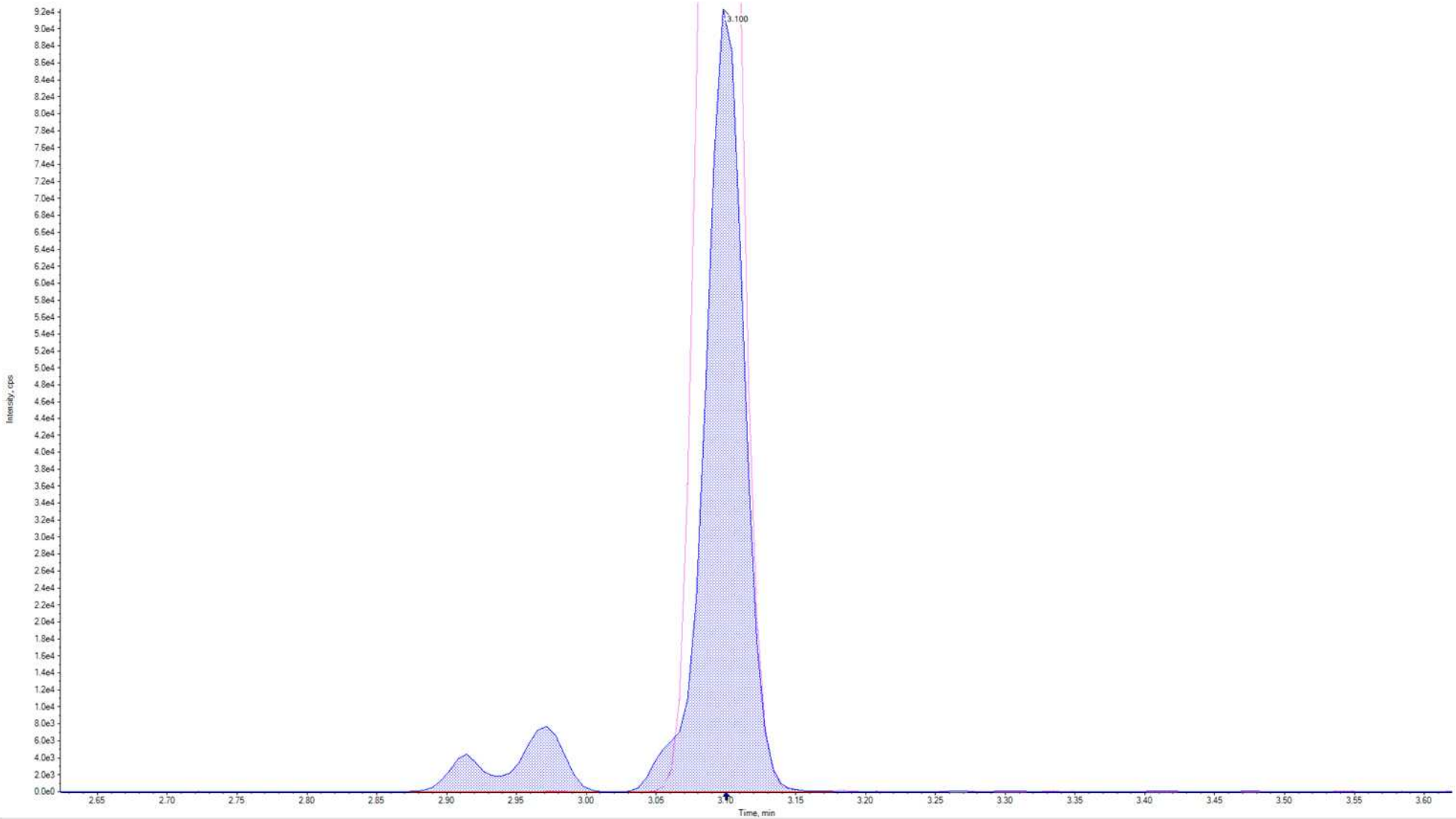
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PFHxS
Sample: WG2038851-9,1633FMED S/N:1274.8 Points Across peak:52



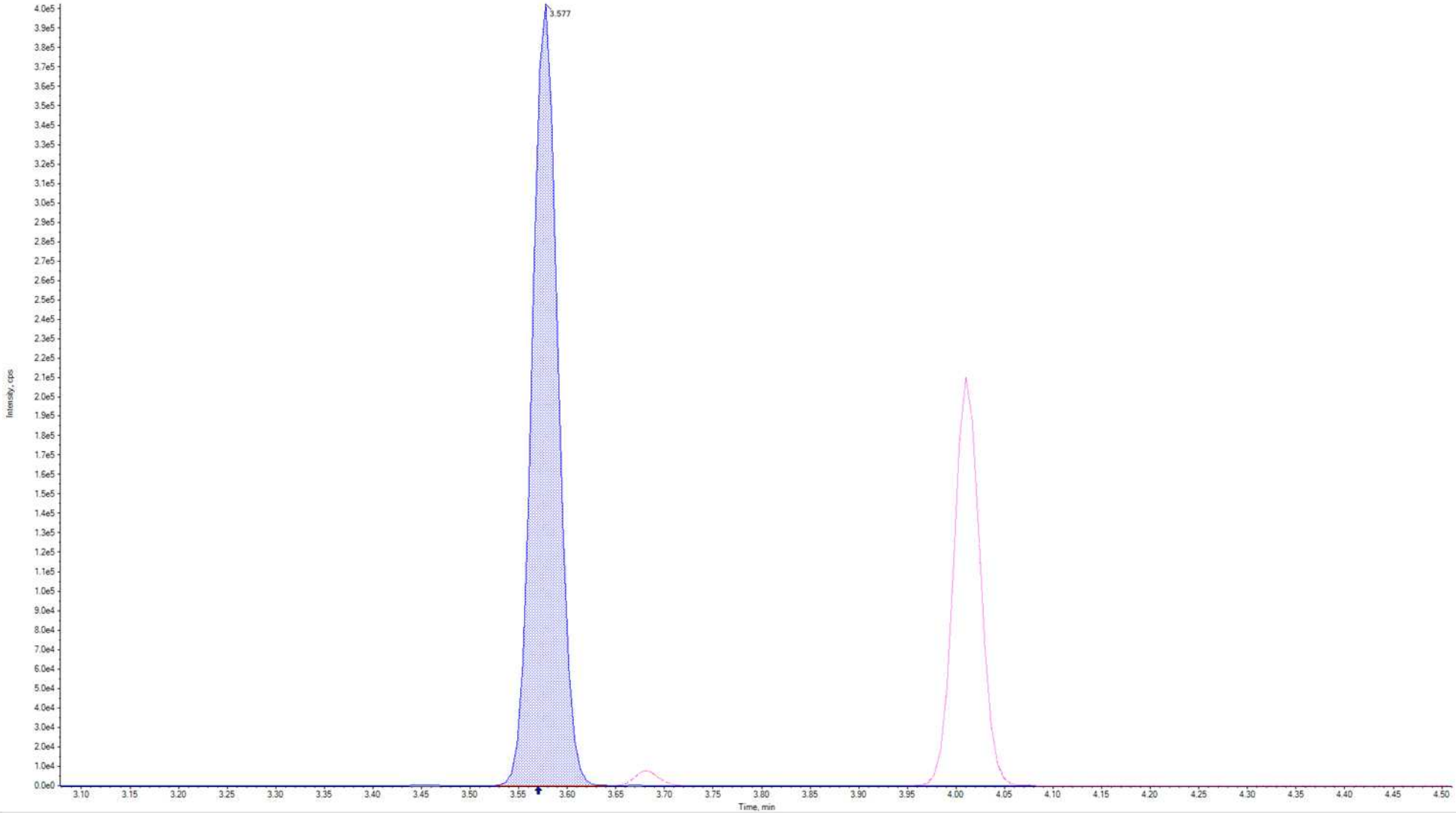
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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PFHxS_2
Sample: WG2038851-9,1633FMED S/N:1298.4 Points Across peak:54



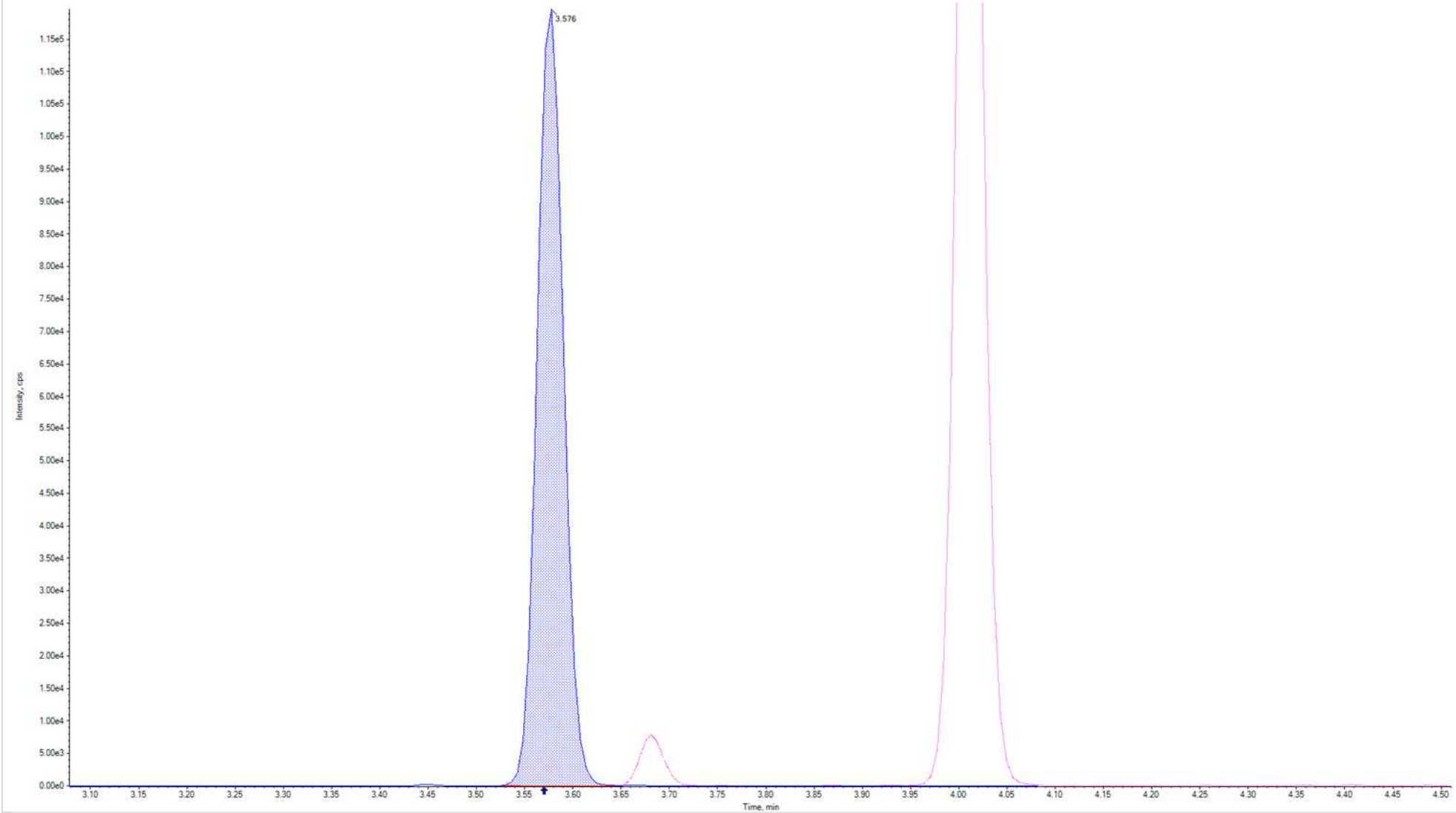
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Alpha Analytical LLC
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PFHpS
Sample: WG2038851-9,1633FMED S/N:4570.5 Points Across peak:26



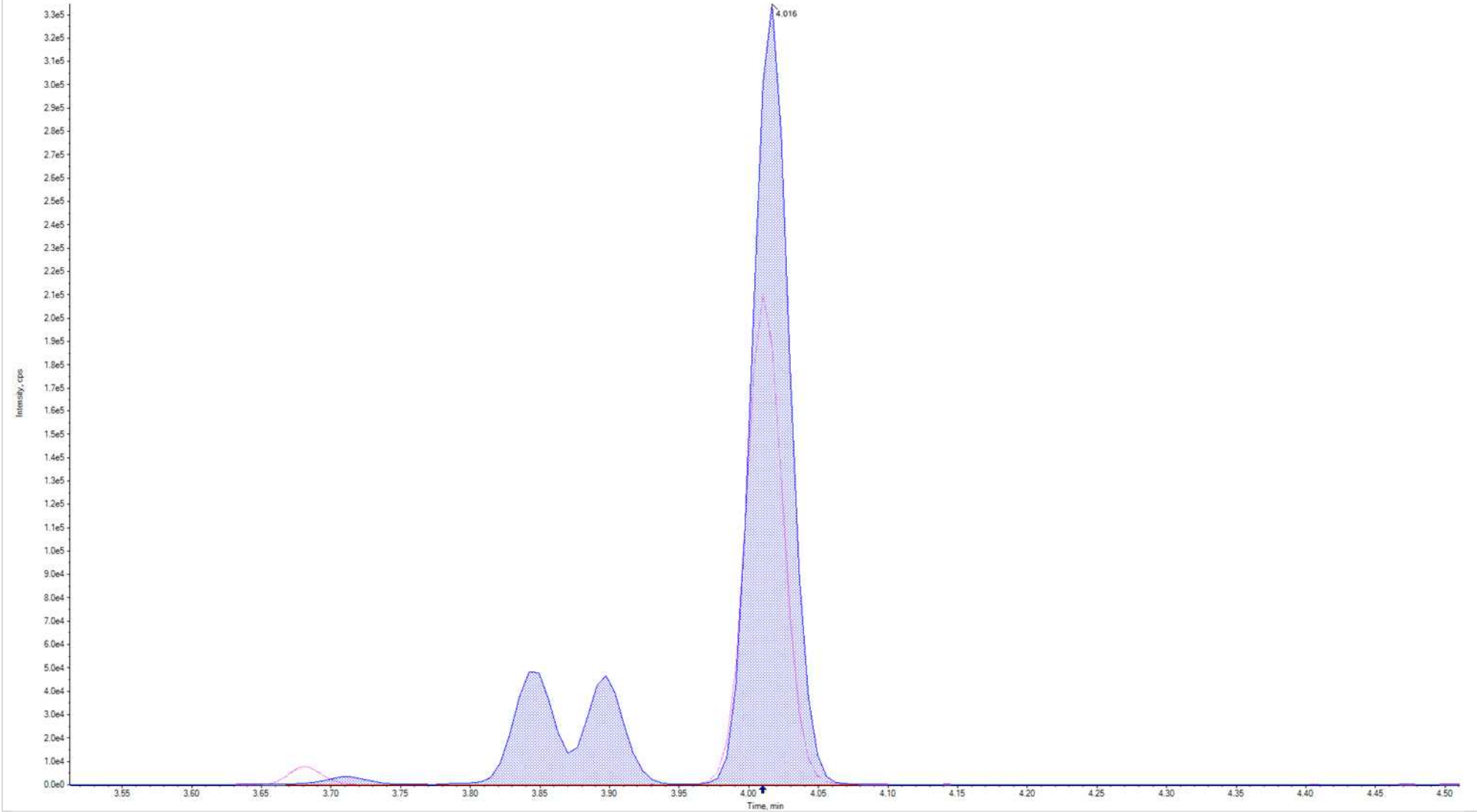
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Alpha Analytical LLC
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PFHpS_2
Sample: WG2038851-9,1633FMED S/N:2398.9 Points Across peak:28



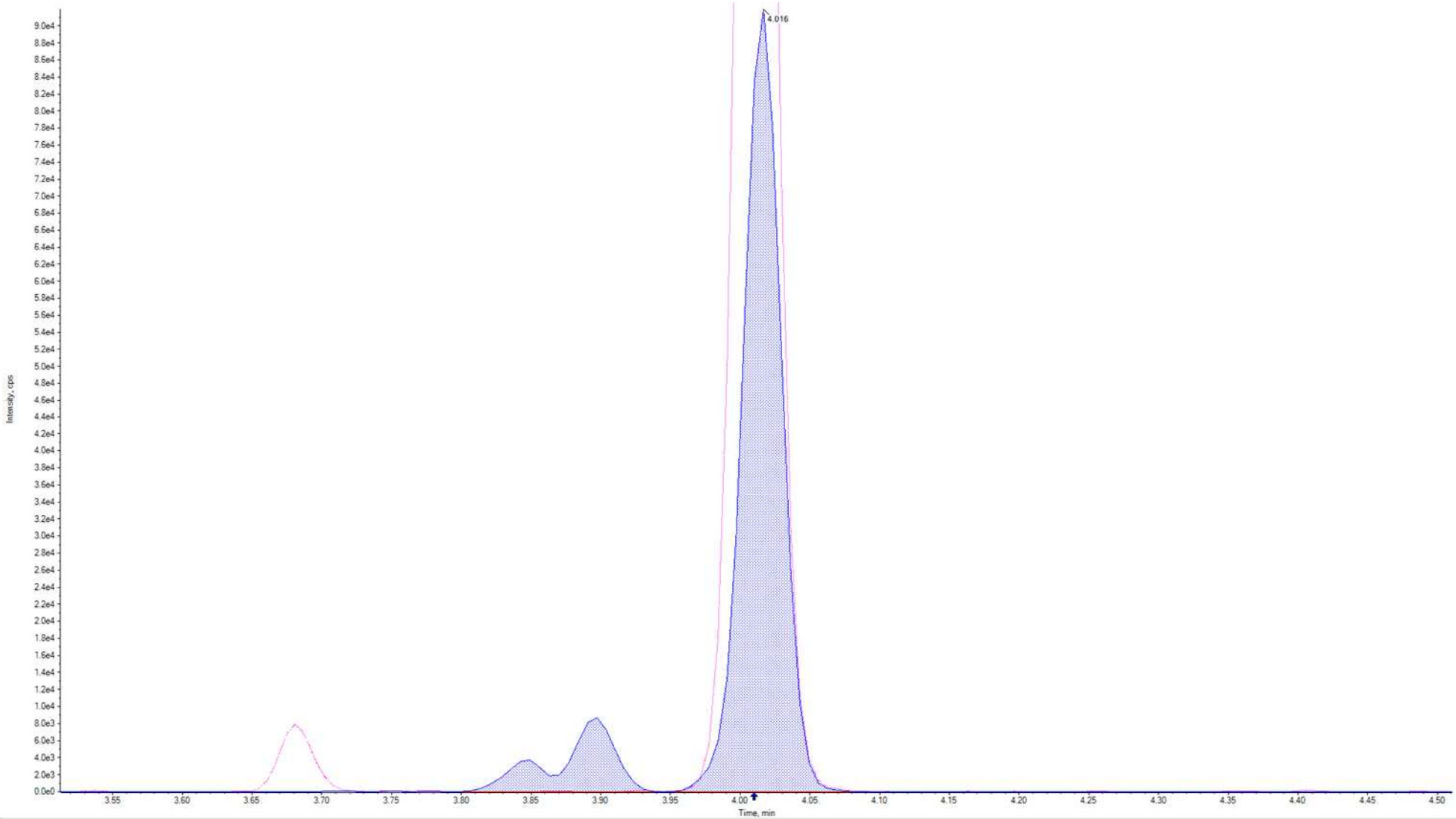
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PFOS
Sample: WG2038851-9,1633FMED S/N:550.8 Points Across peak:66



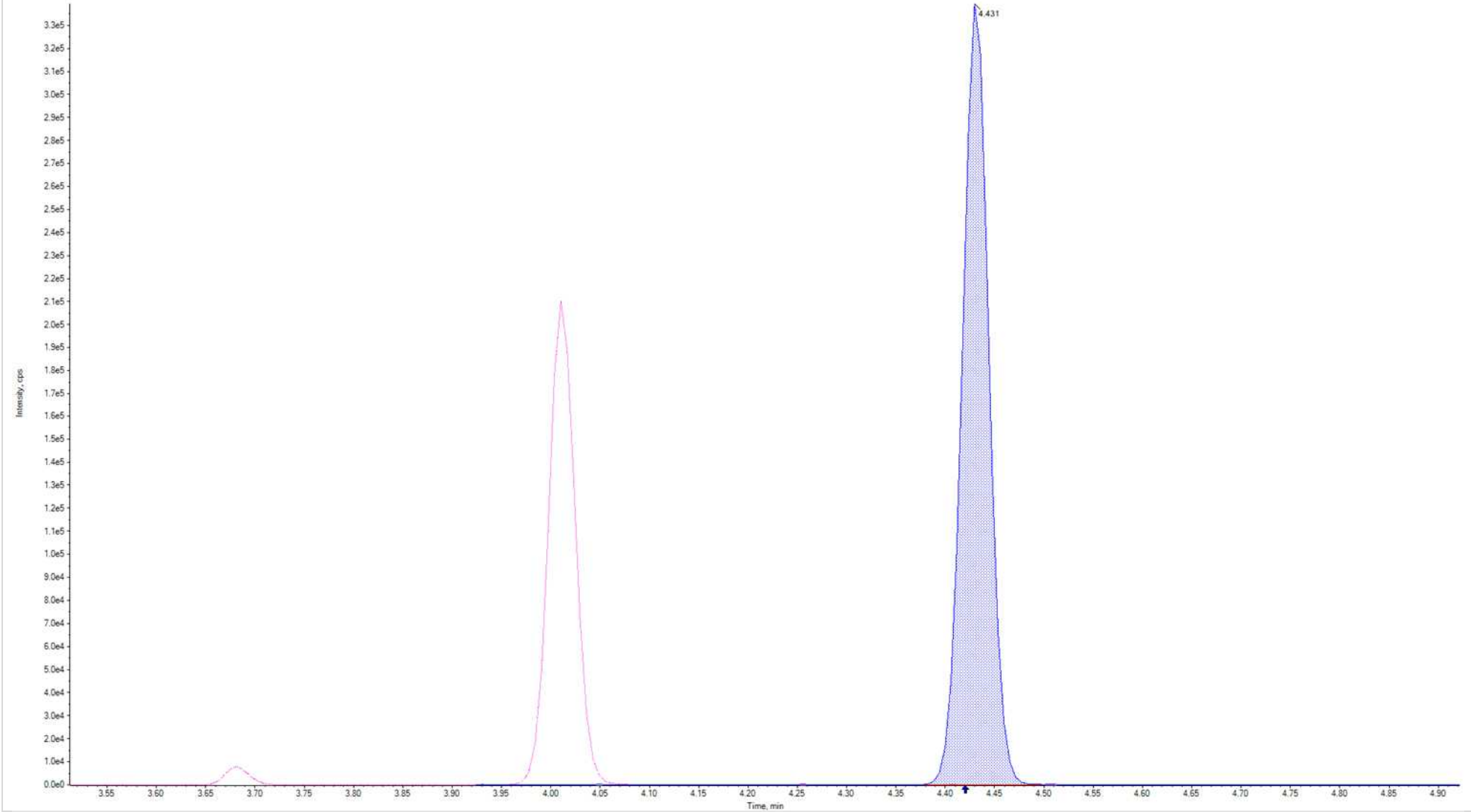
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Alpha Analytical LLC
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PFOS_2
Sample: WG2038851-9,1633FMED S/N:1279.8 Points Across peak:45



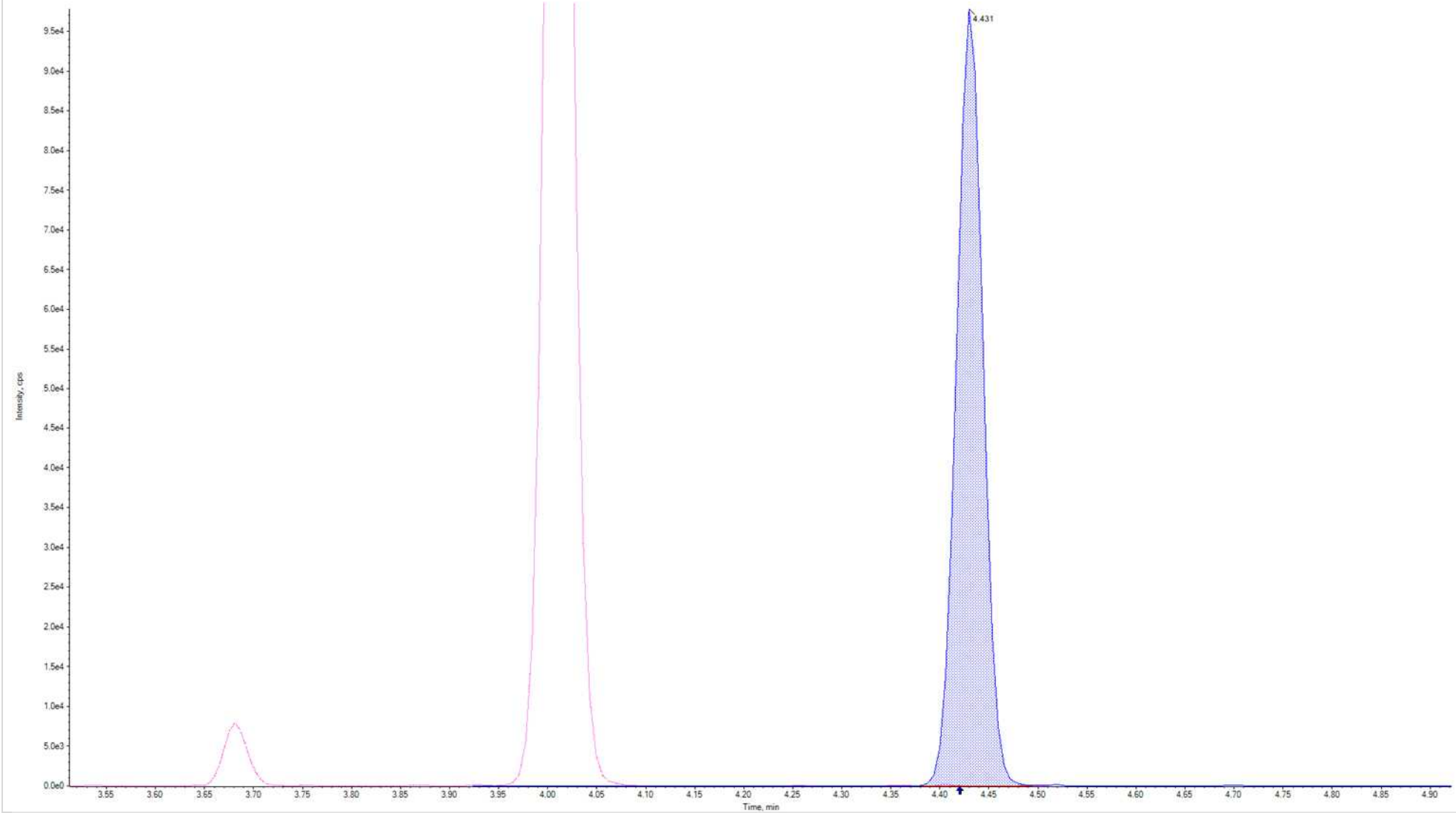
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Alpha Analytical LLC
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PFNS
Sample: WG2038851-9,1633FMED S/N:4970.1 Points Across peak:24



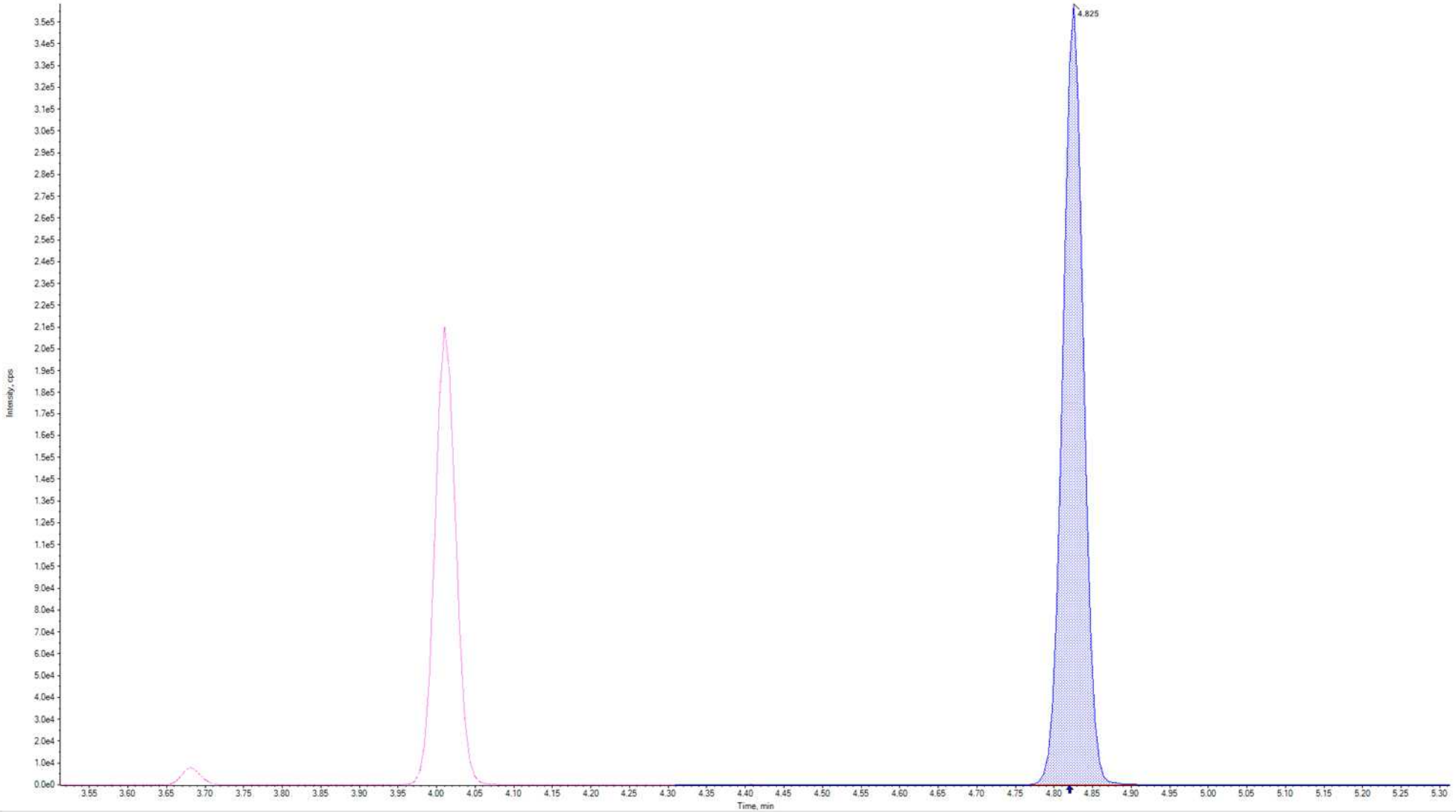
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Alpha Analytical LLC
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PFNS_2
Sample: WG2038851-9,1633FMED S/N:2451.3 Points Across peak:25



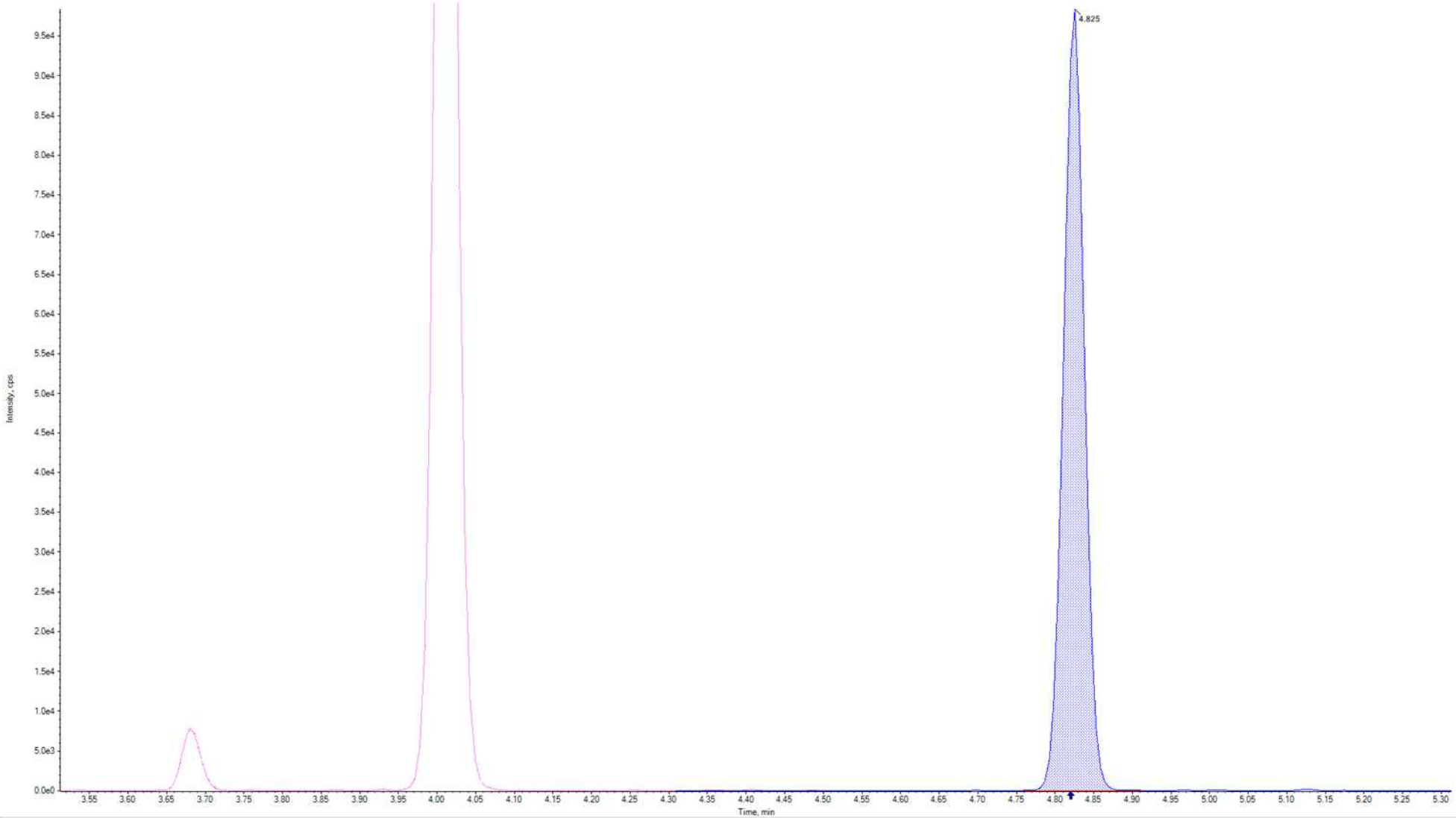
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PFDS
Sample: WG2038851-9,1633FMED S/N:5198.7 Points Across peak:32



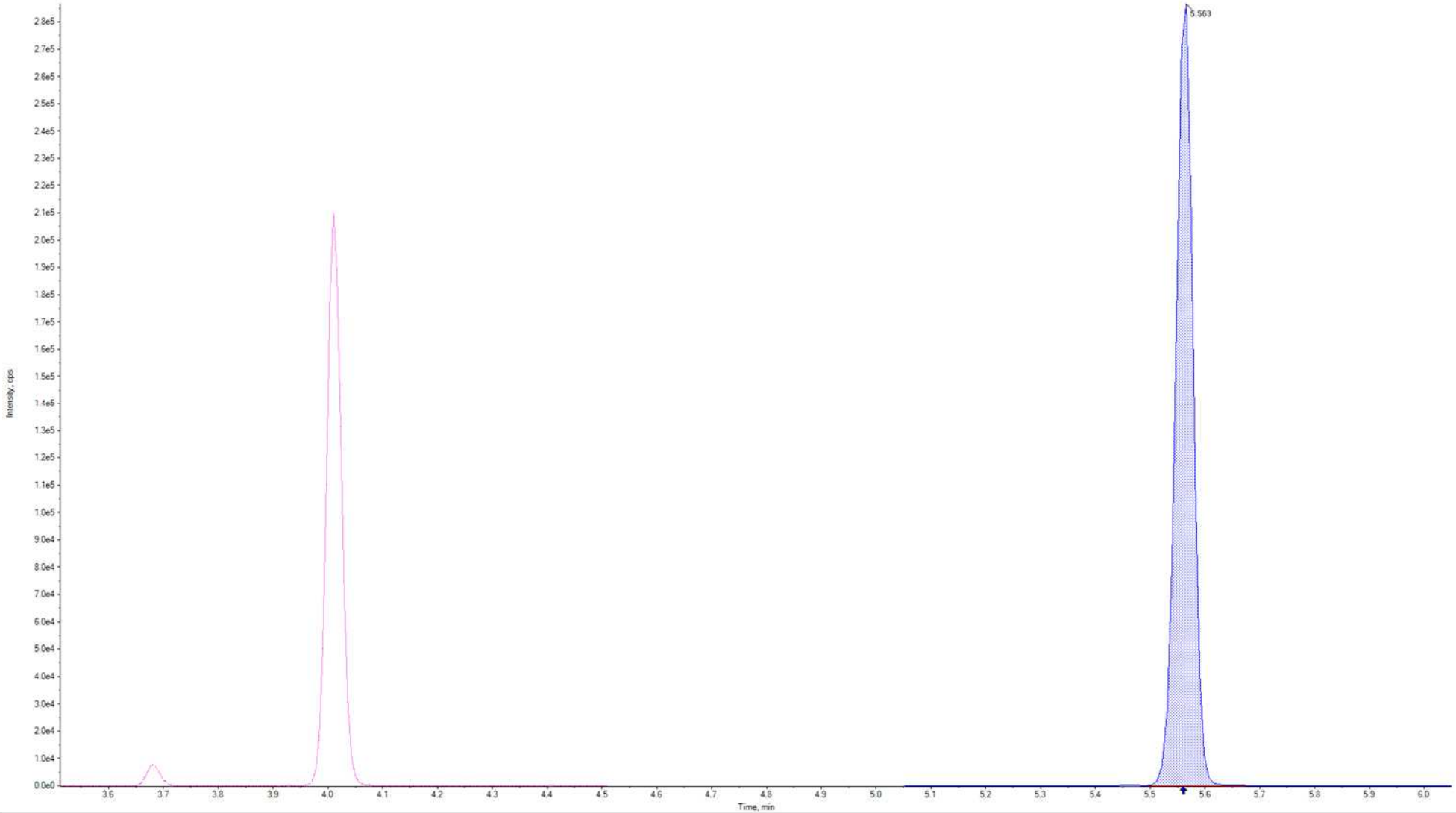
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Alpha Analytical LLC
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PFDS_2
Sample: WG2038851-9,1633FMED S/N:3452.7 Points Across peak:36



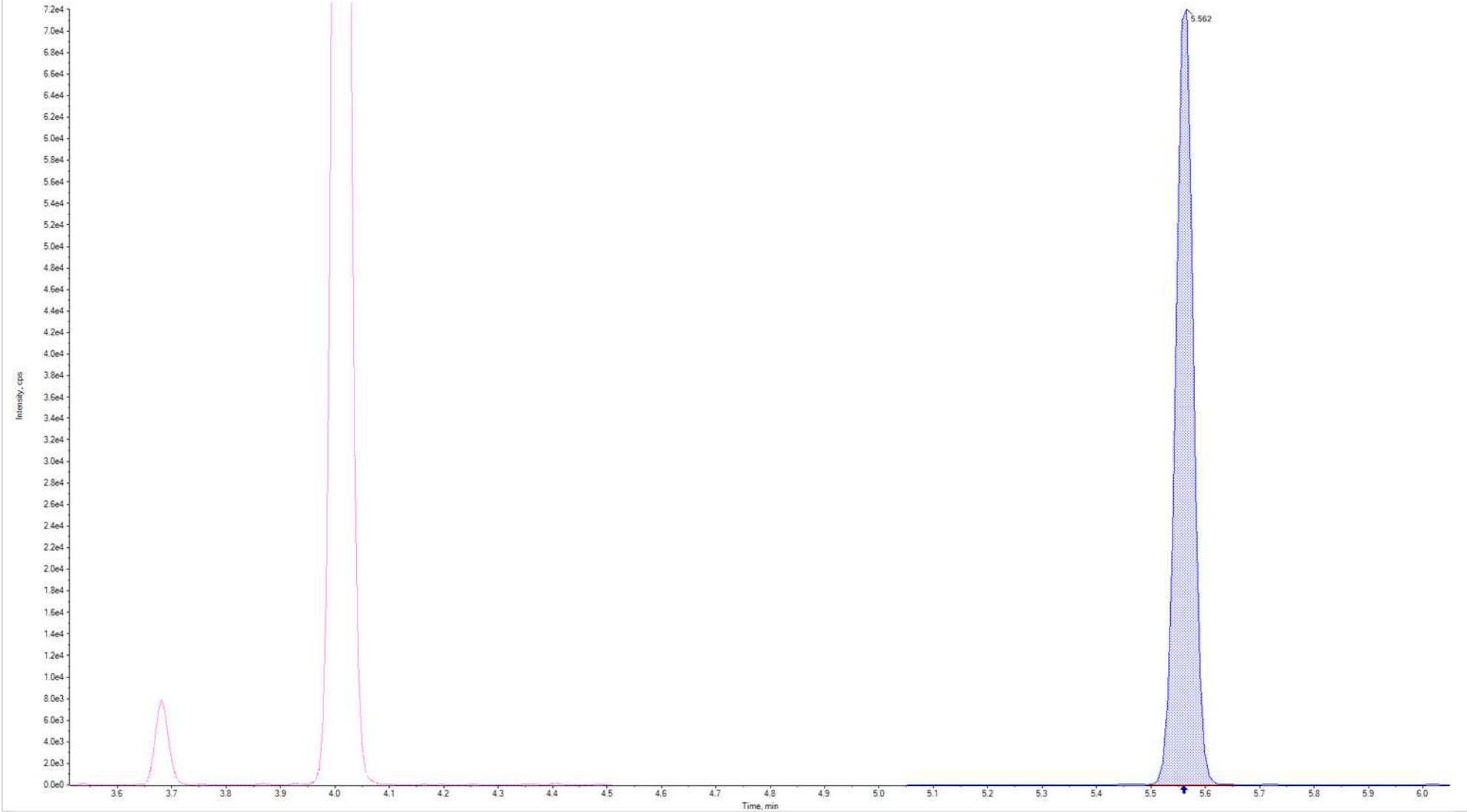
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Alpha Analytical LLC
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PFDoS
Sample: WG2038851-9,1633FMED S/N:22266.5 Points Across peak:25



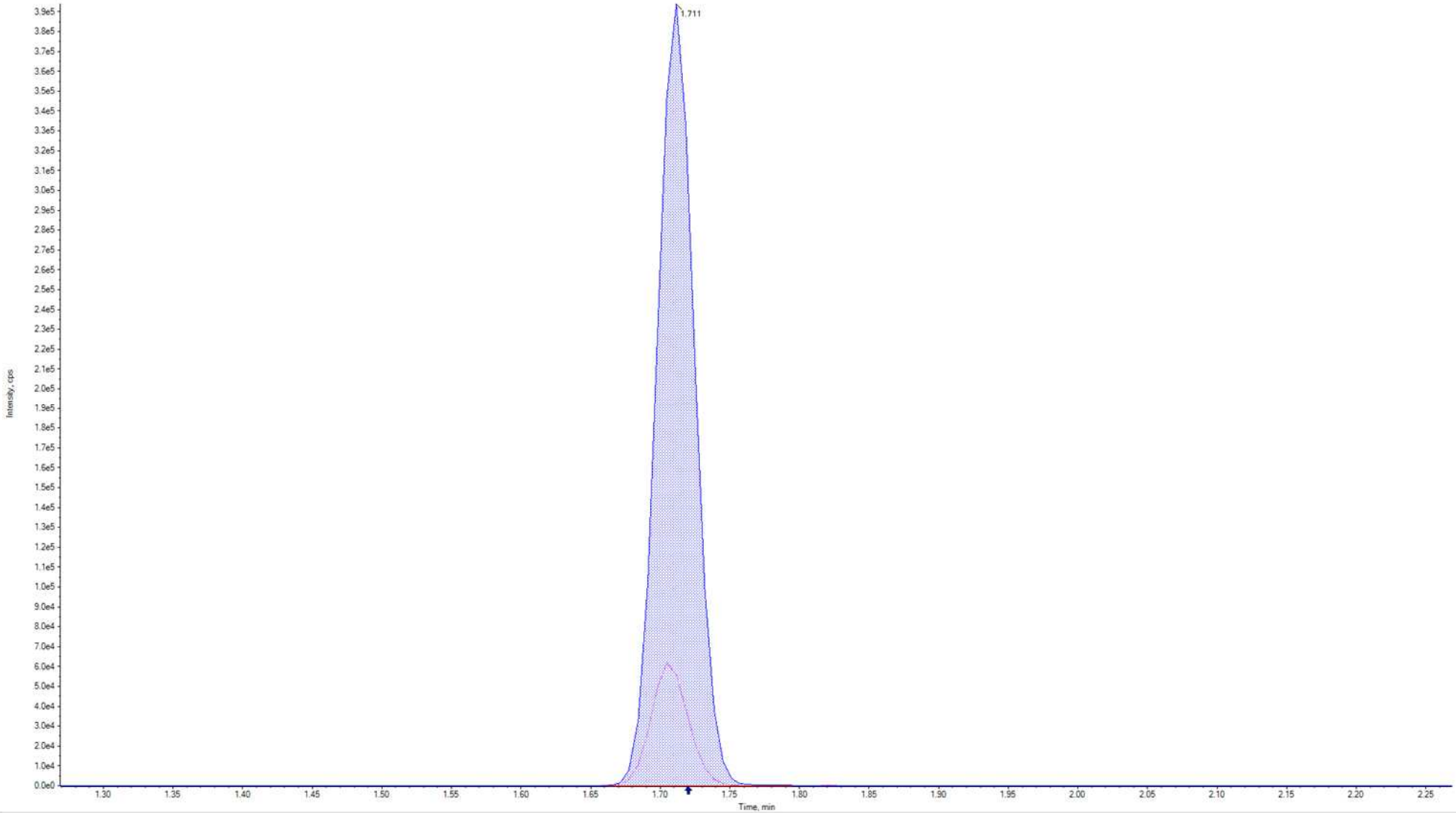
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Alpha Analytical LLC
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PFDoS_2
Sample: WG2038851-9,1633FMED S/N:5597.1 Points Across peak:20



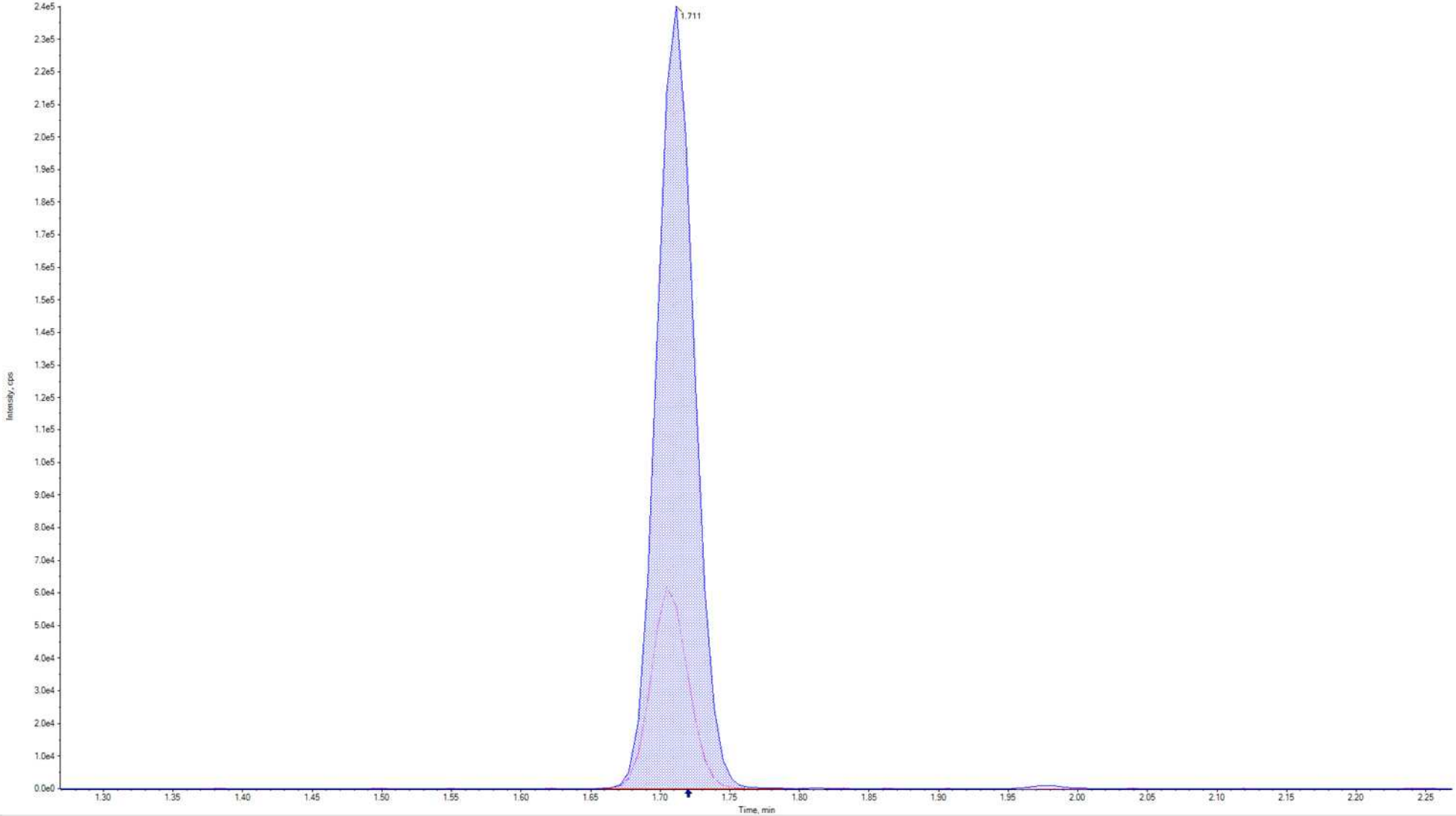
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4:2FTS
Sample: WG2038851-9,1633FMED S/N:14811.6 Points Across peak:27



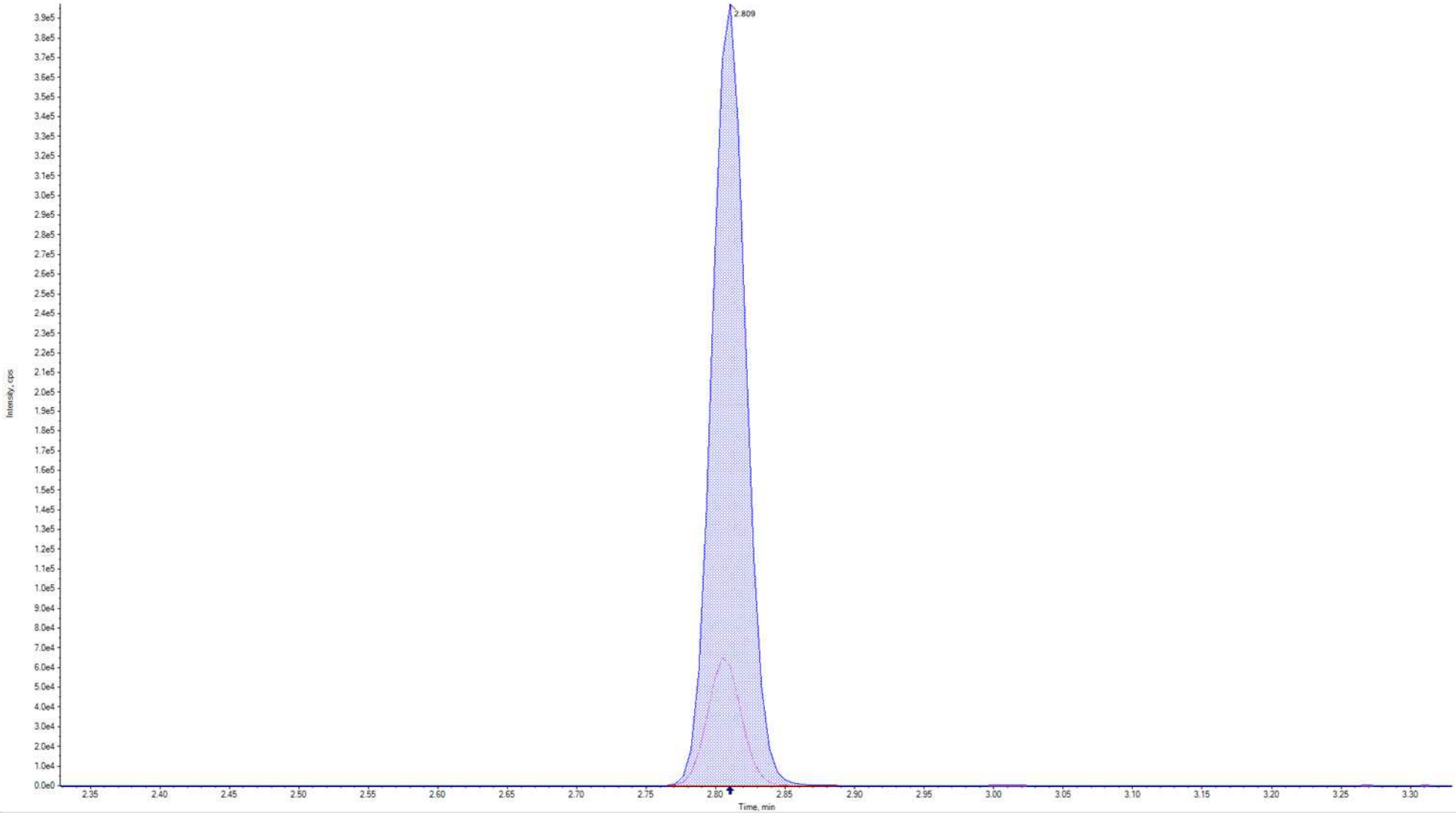
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

4:2FTS_2
Sample: WG2038851-9,1633FMED S/N:5695.4 Points Across peak:27



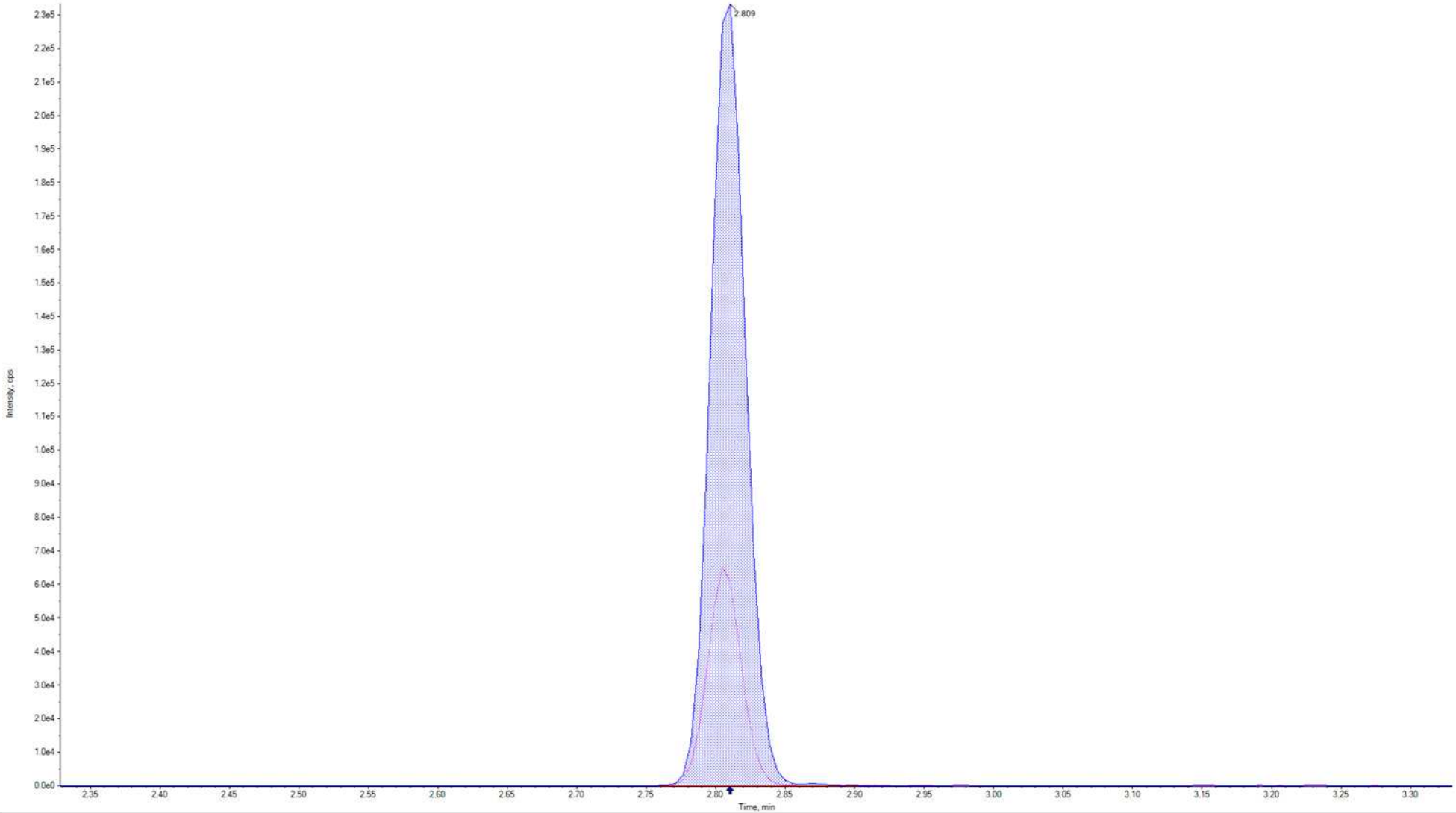
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Alpha Analytical LLC
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6:2FTS
Sample: WG2038851-9,1633FMED S/N:3797.9 Points Across peak:34



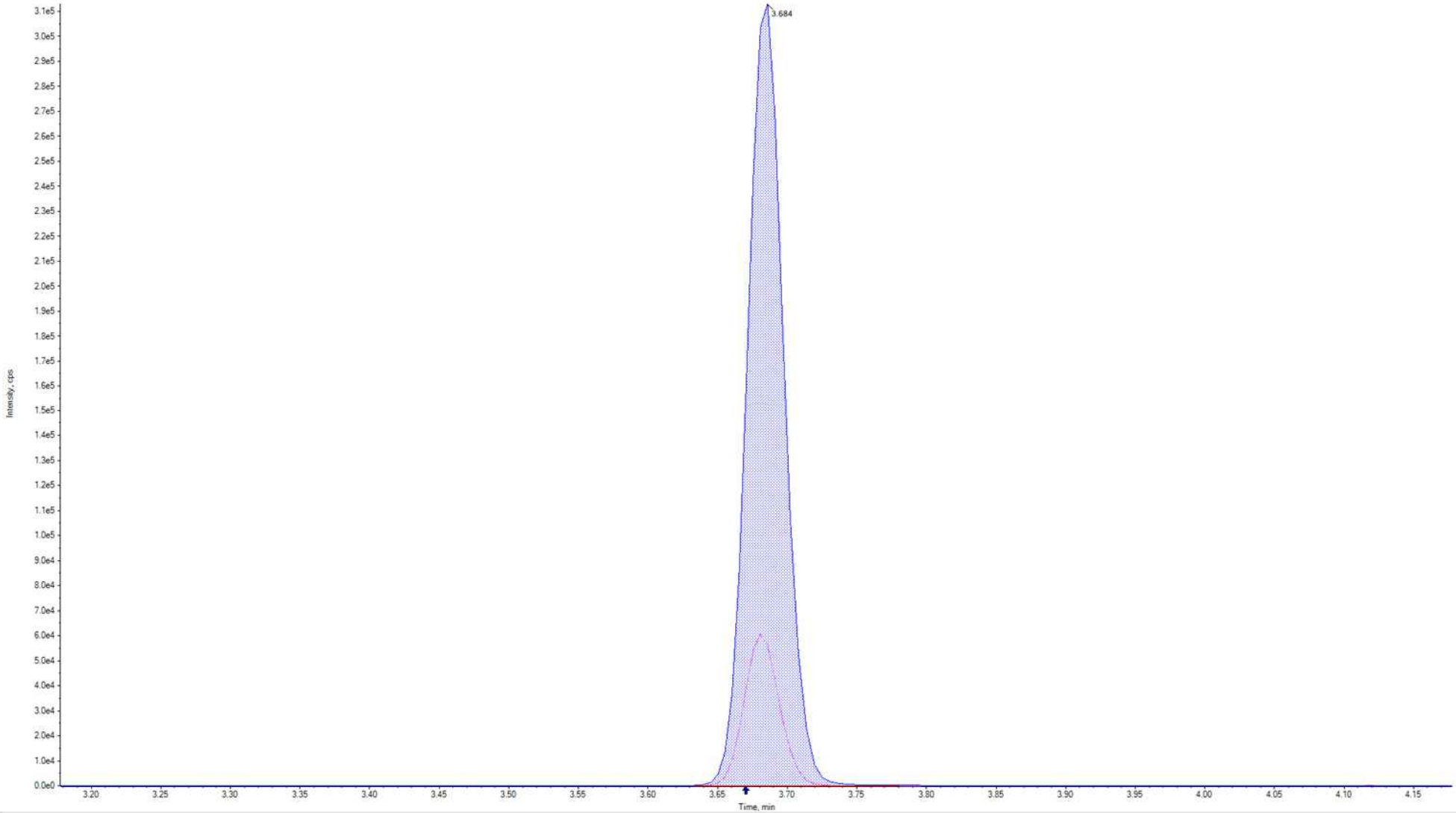
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Alpha Analytical LLC
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6:2FTS_2
Sample: WG2038851-9,1633FMED S/N:4377.6 Points Across peak:37



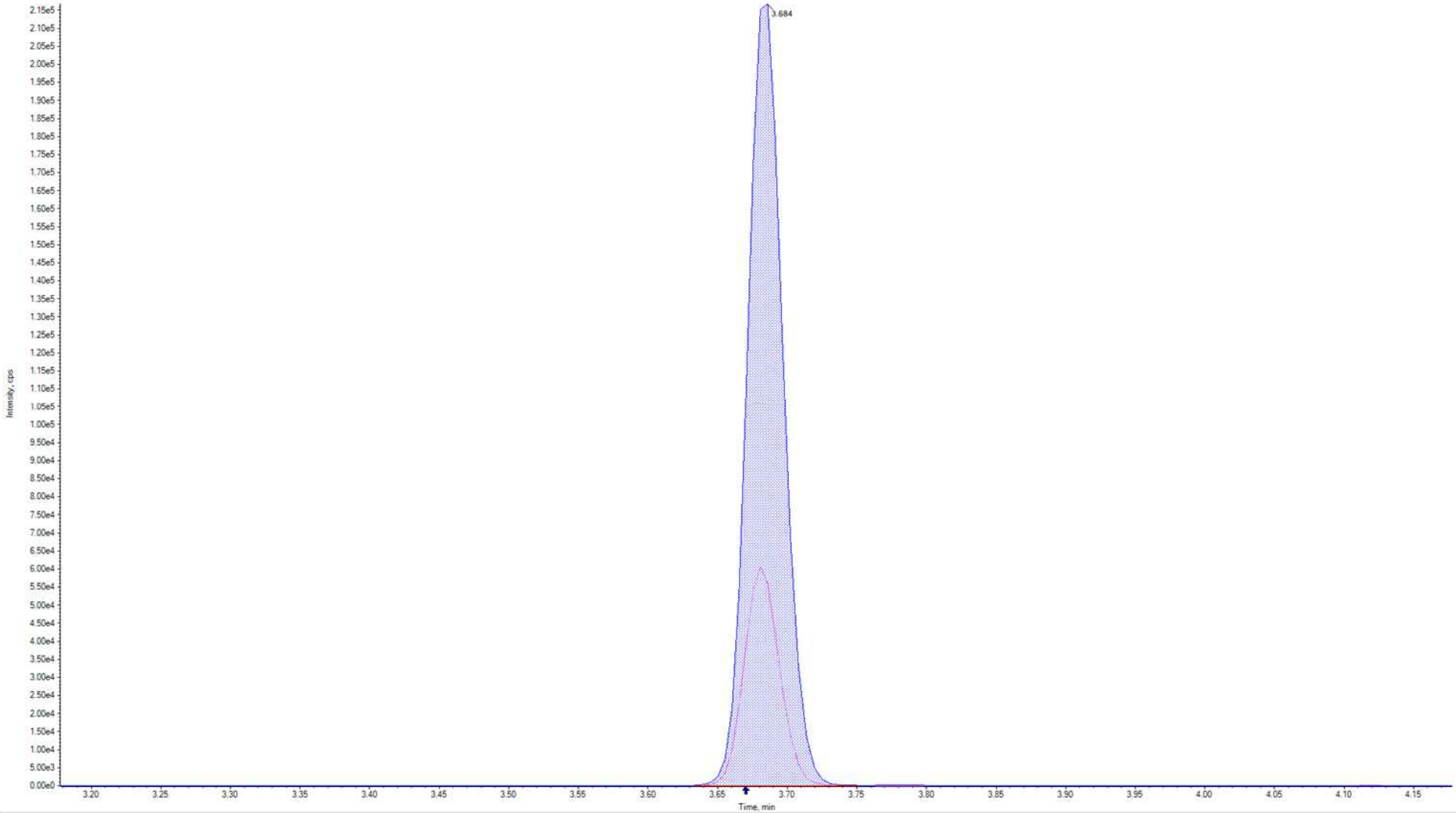
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Alpha Analytical LLC
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8:2FTS
Sample: WG2038851-9,1633FMED S/N:6275.6 Points Across peak:33



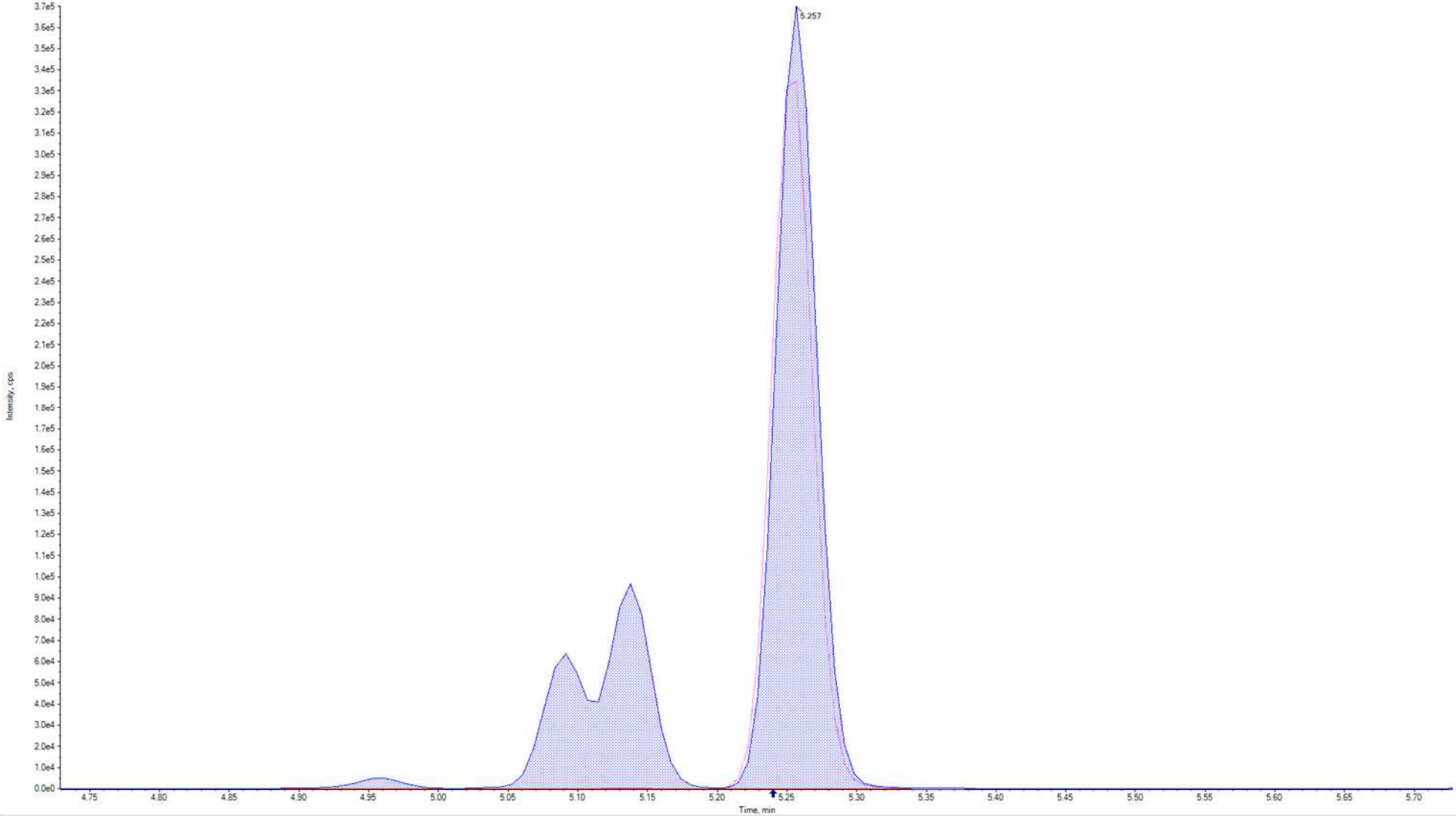
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Alpha Analytical LLC
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8:2FTS_2
Sample: WG2038851-9,1633FMED S/N:4346.5 Points Across peak:26



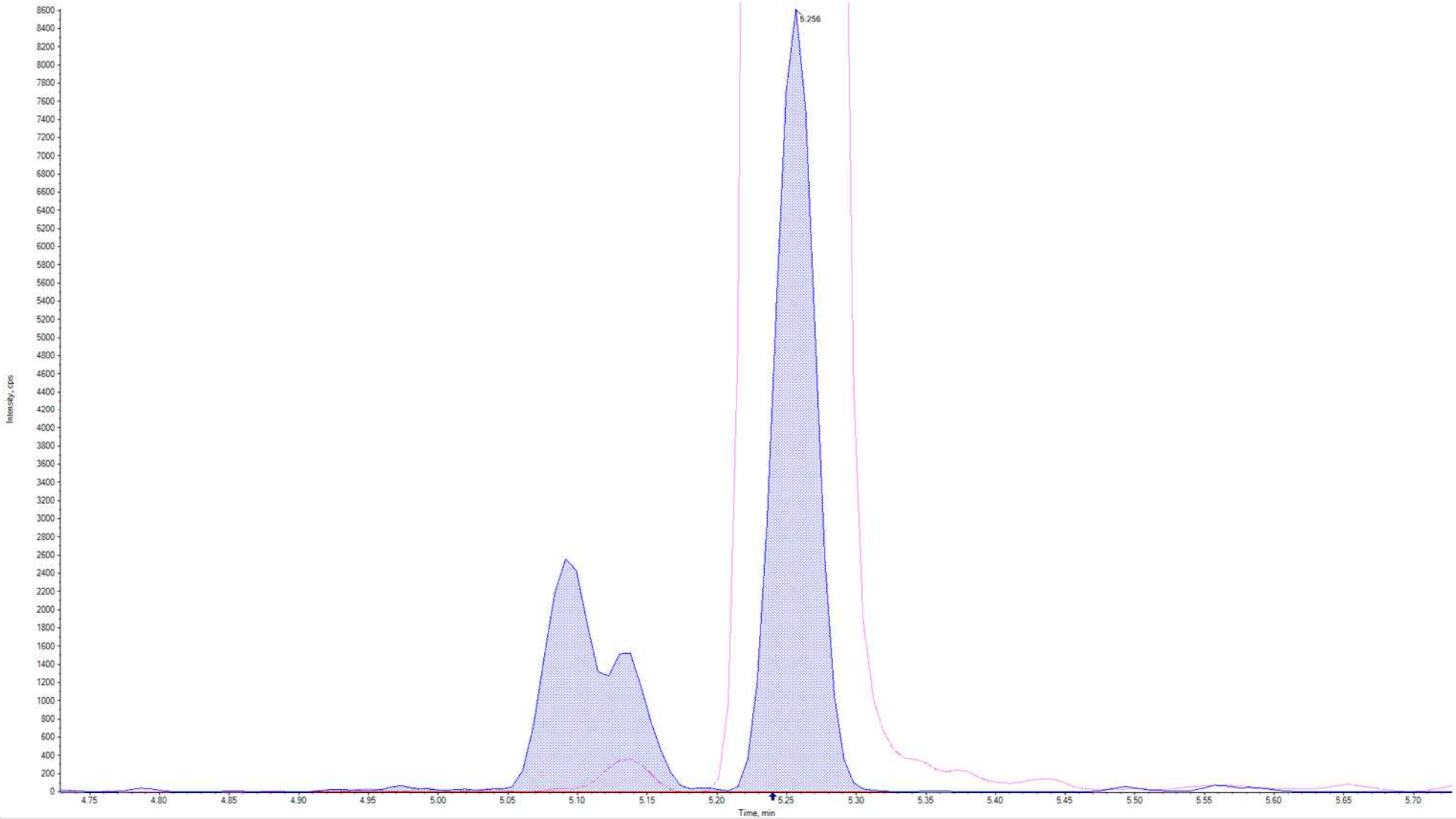
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PFOSA
Sample: WG2038851-9,1633FMED S/N:376.4 Points Across peak:67



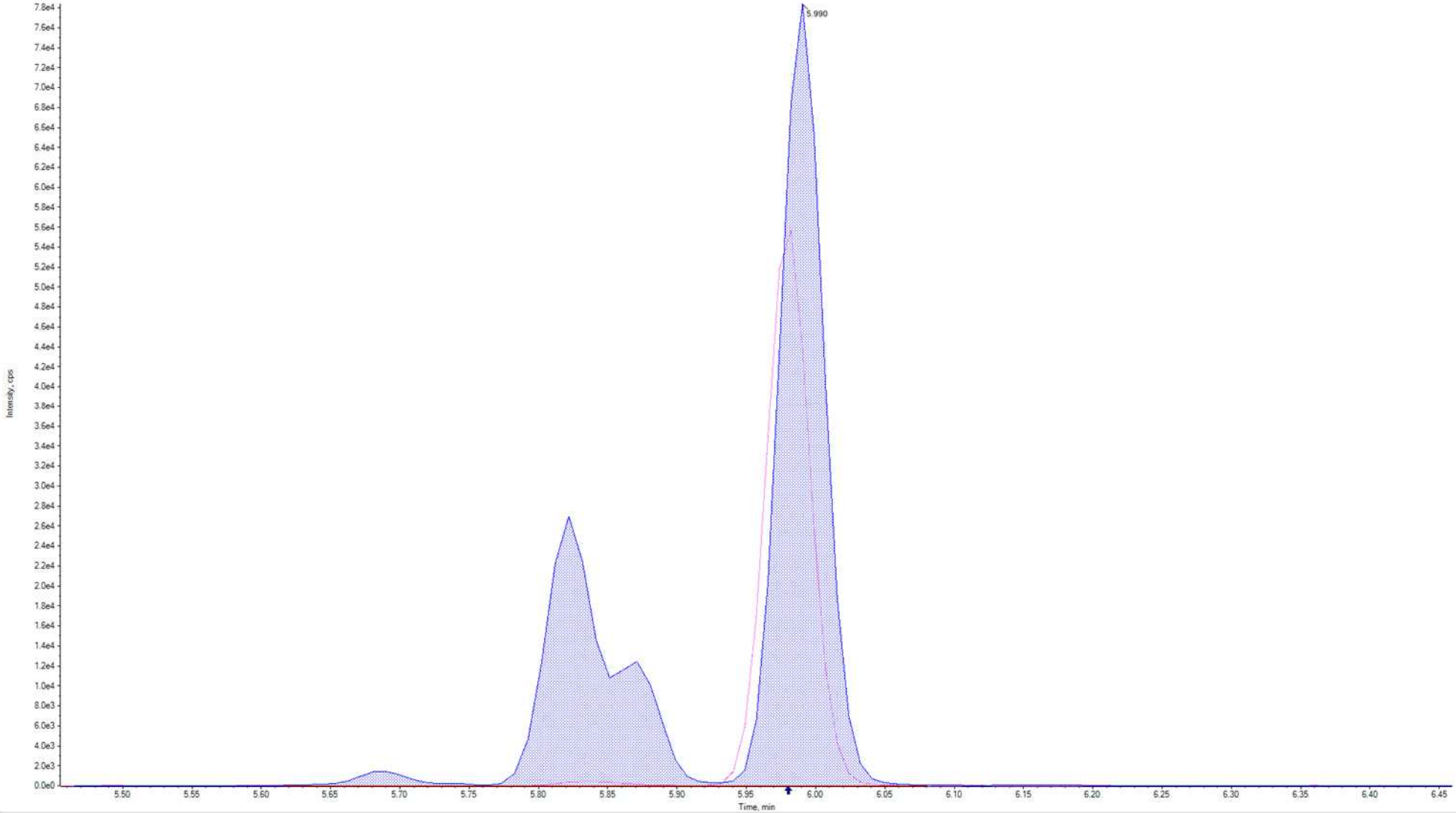
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PFOSA_2
Sample: WG2038851-9,1633FMED S/N:307.0 Points Across peak:63



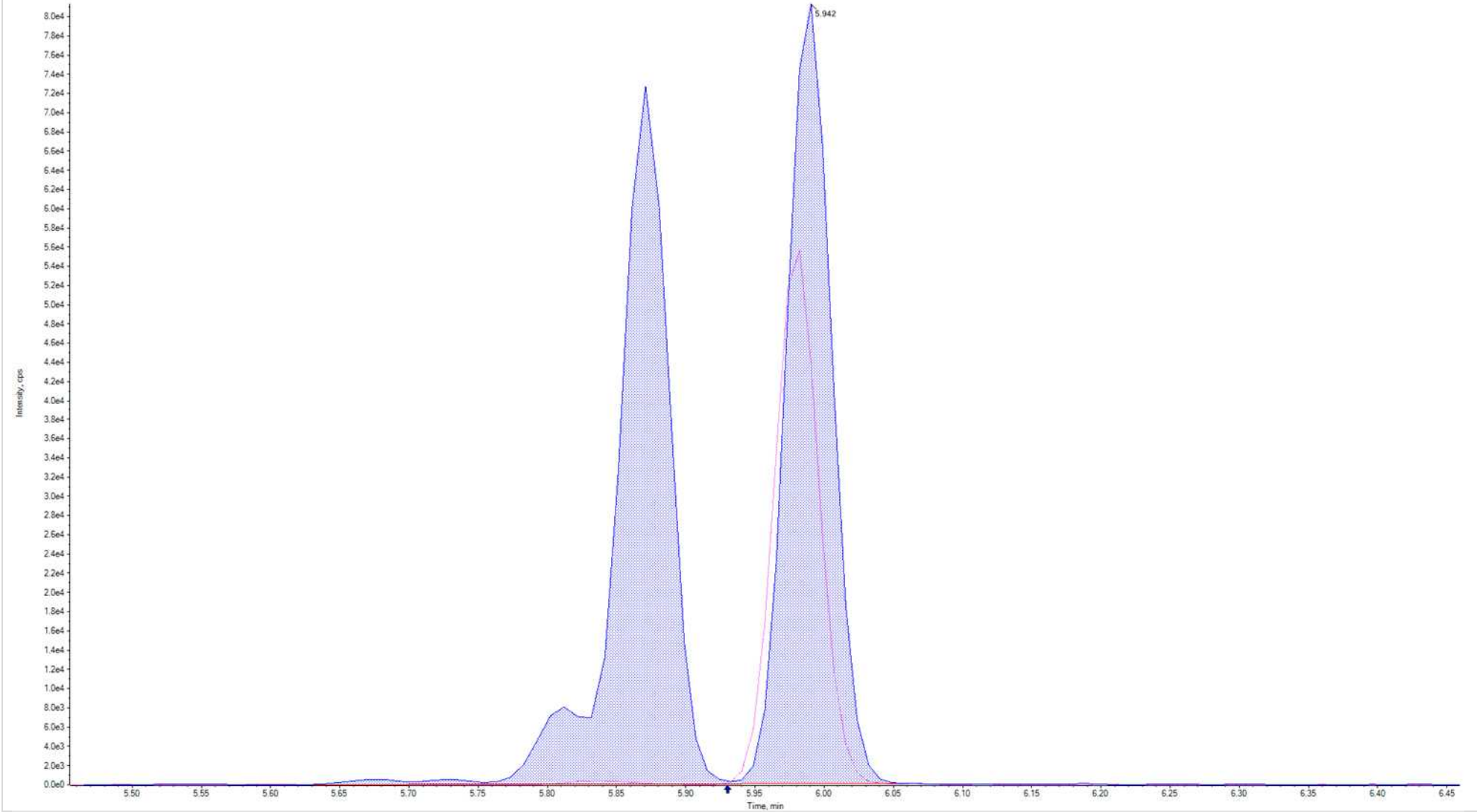
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Alpha Analytical LLC
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NMeFOSA
Sample: WG2038851-9,1633FMED S/N:354.3 Points Across peak:57



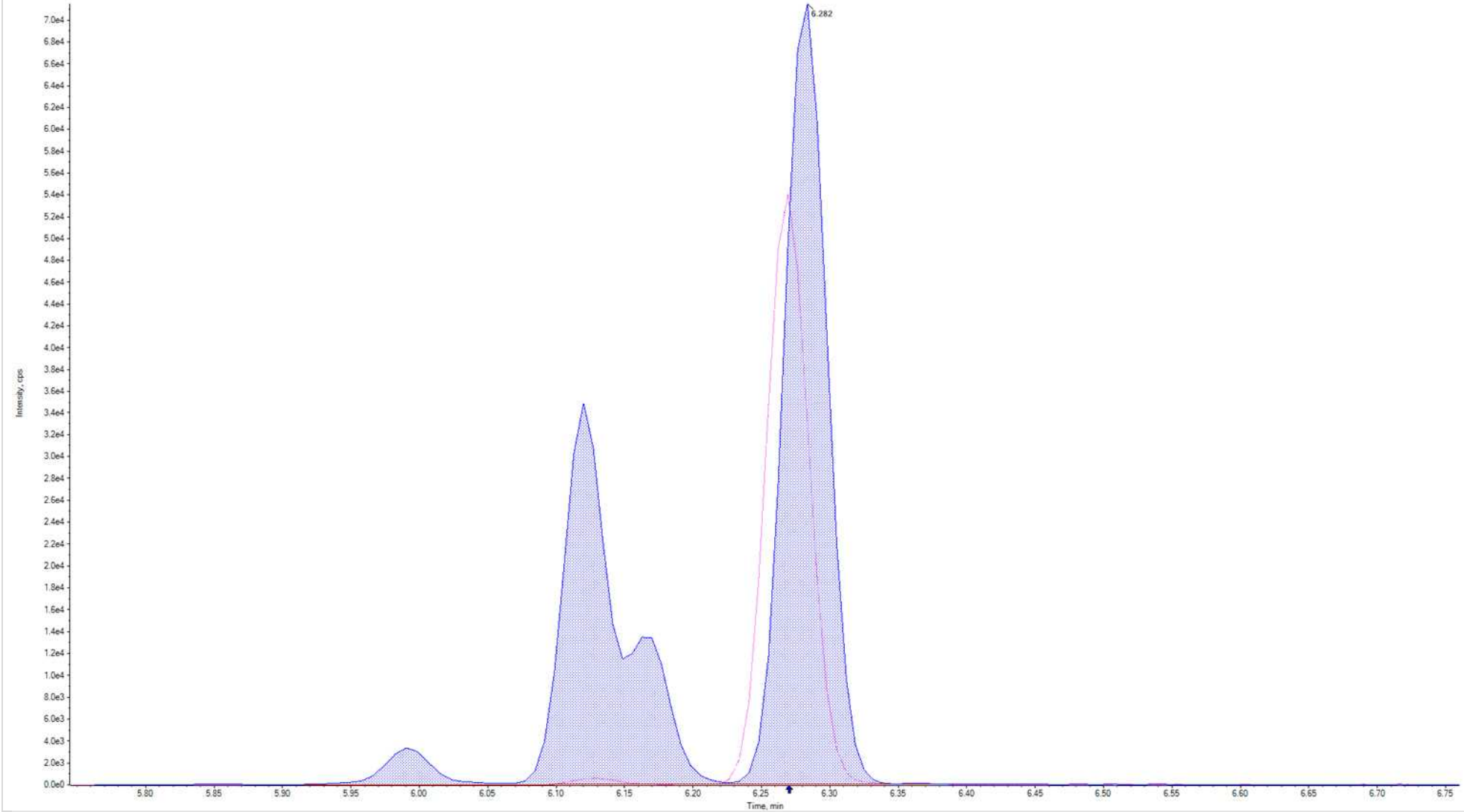
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Alpha Analytical LLC
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NMeFOSA_2
Sample: WG2038851-9,1633FMED S/N:280.0 Points Across peak:49



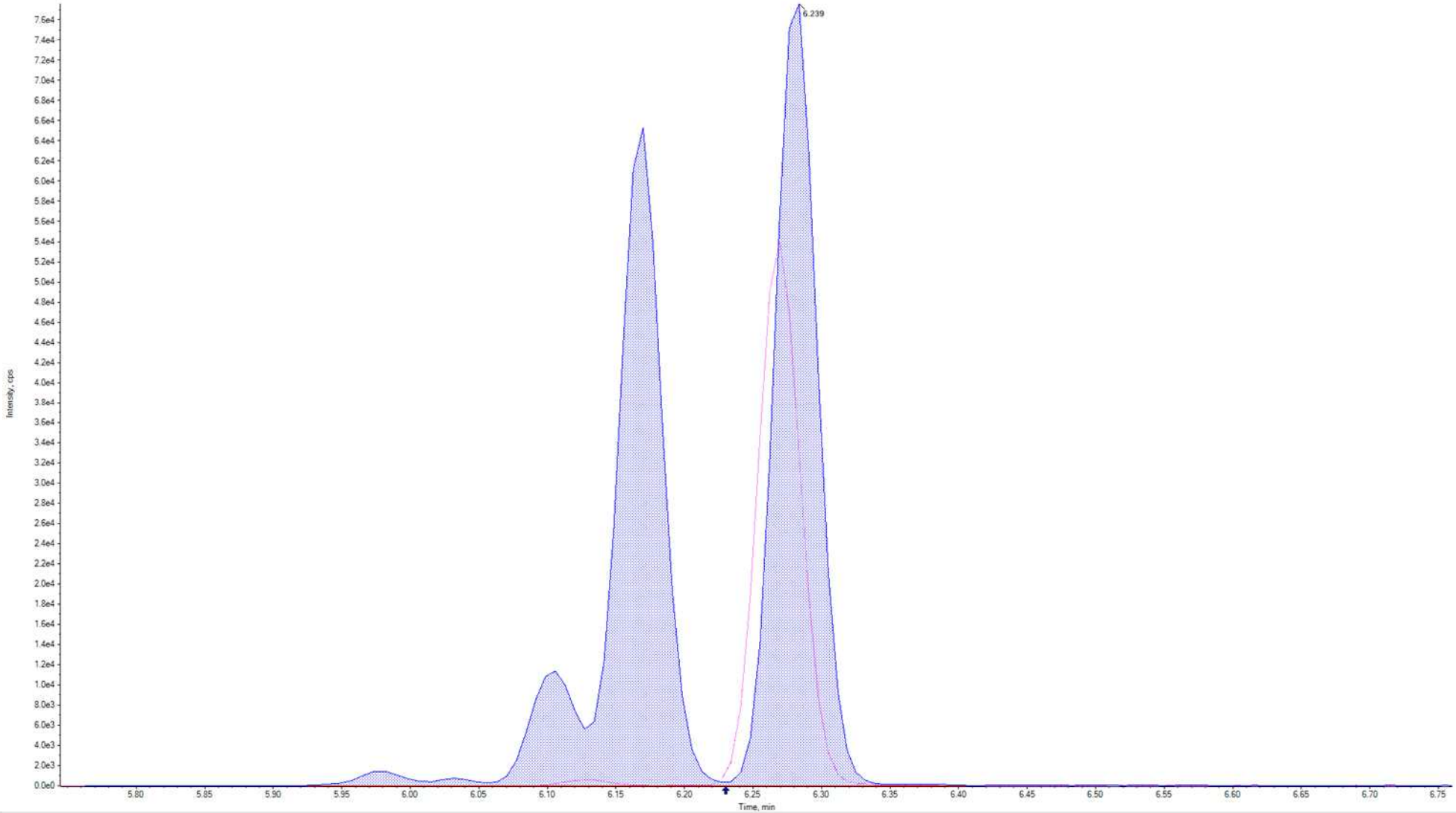
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Alpha Analytical LLC
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NEtFOSA
Sample: WG2038851-9,1633FMED S/N:670.2 Points Across peak:67



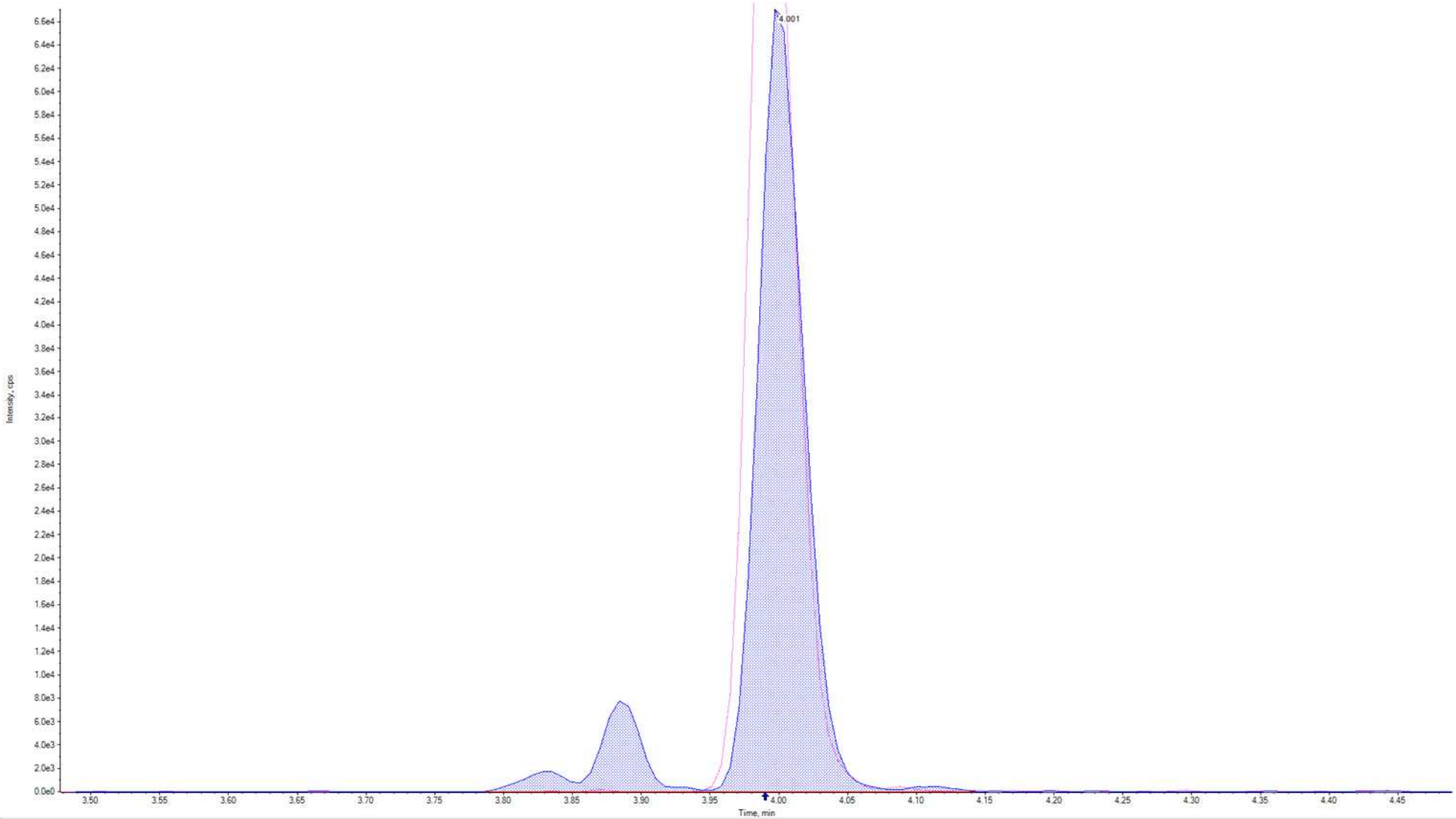
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Alpha Analytical LLC
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NEtFOSA_2
Sample: WG2038851-9,1633FMED S/N:666.5 Points Across peak:71



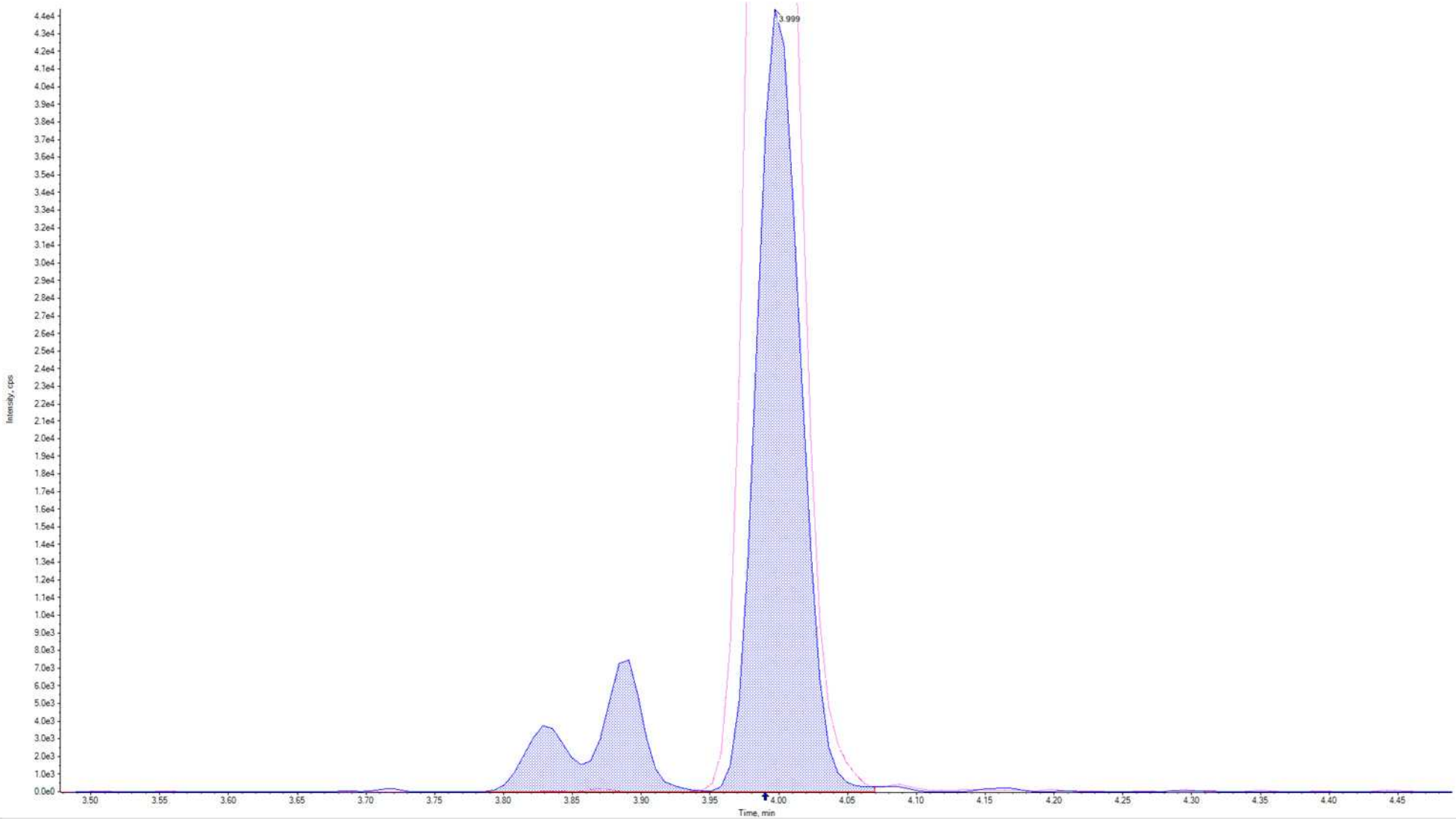
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Alpha Analytical LLC
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NMeFOSAA
Sample: WG2038851-9,1633FMED S/N:682.7 Points Across peak:58



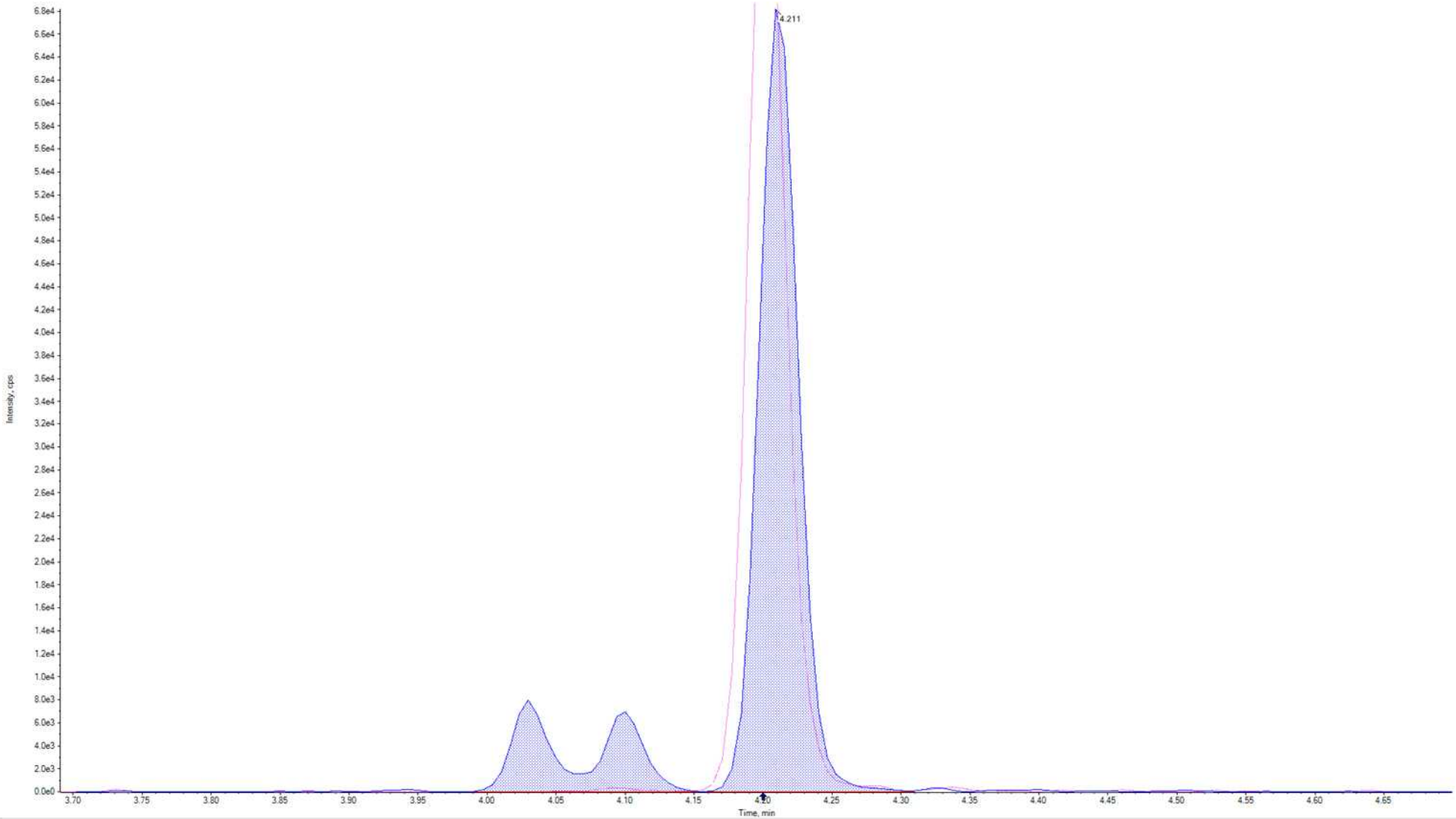
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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NMeFOSAA_2
Sample: WG2038851-9,1633FMED S/N:483.1 Points Across peak:45



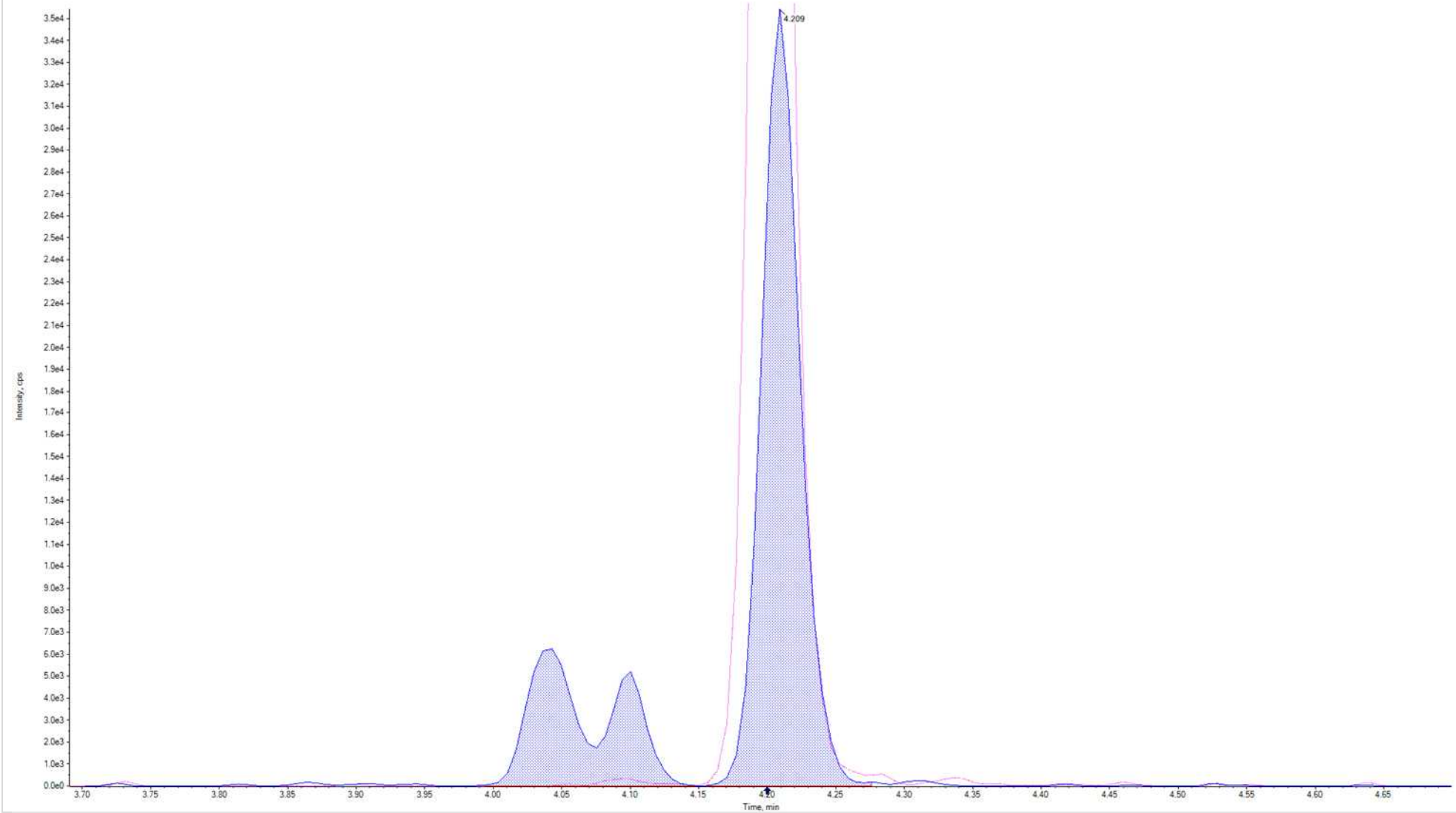
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

NEtFOSAA
Sample: WG2038851-9,1633FMED S/N:637.4 Points Across peak:52



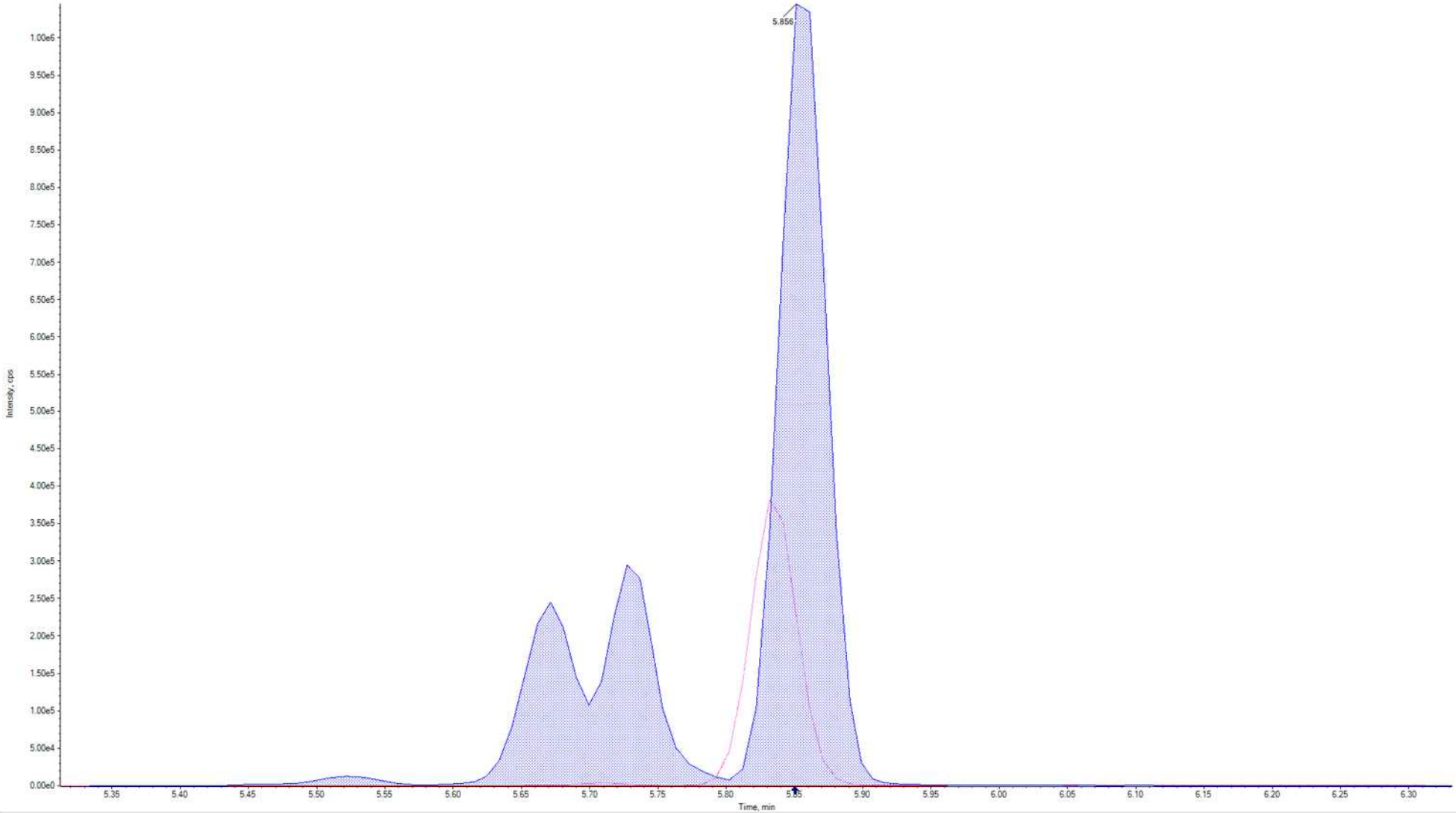
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_59.wiff2_18
Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

NEtFOSAA_2
Sample: WG2038851-9,1633FMED S/N:418.1 Points Across peak:46



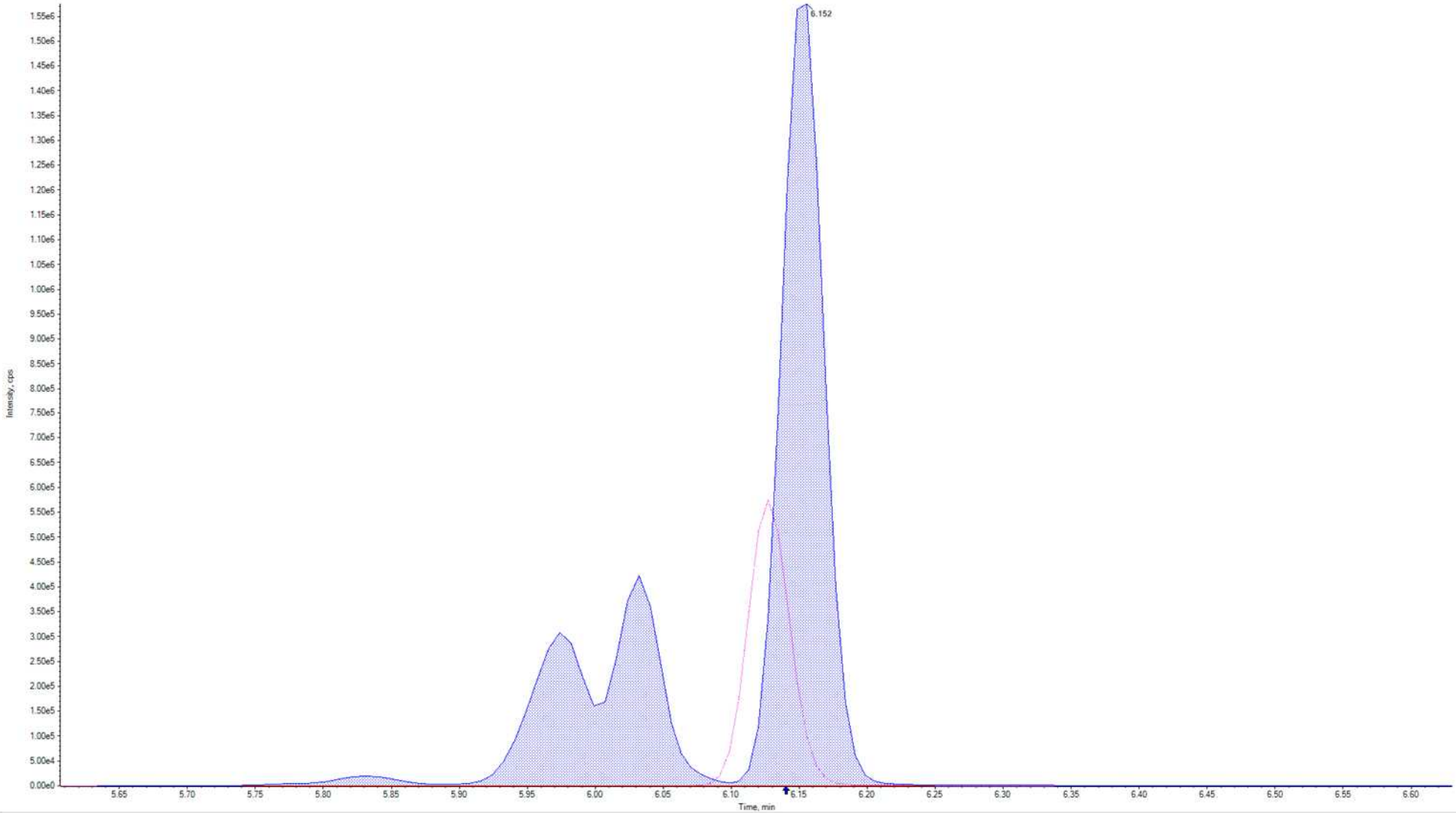
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

NMeFOSE
Sample: WG2038851-9,1633FMED S/N:210.6 Points Across peak:61



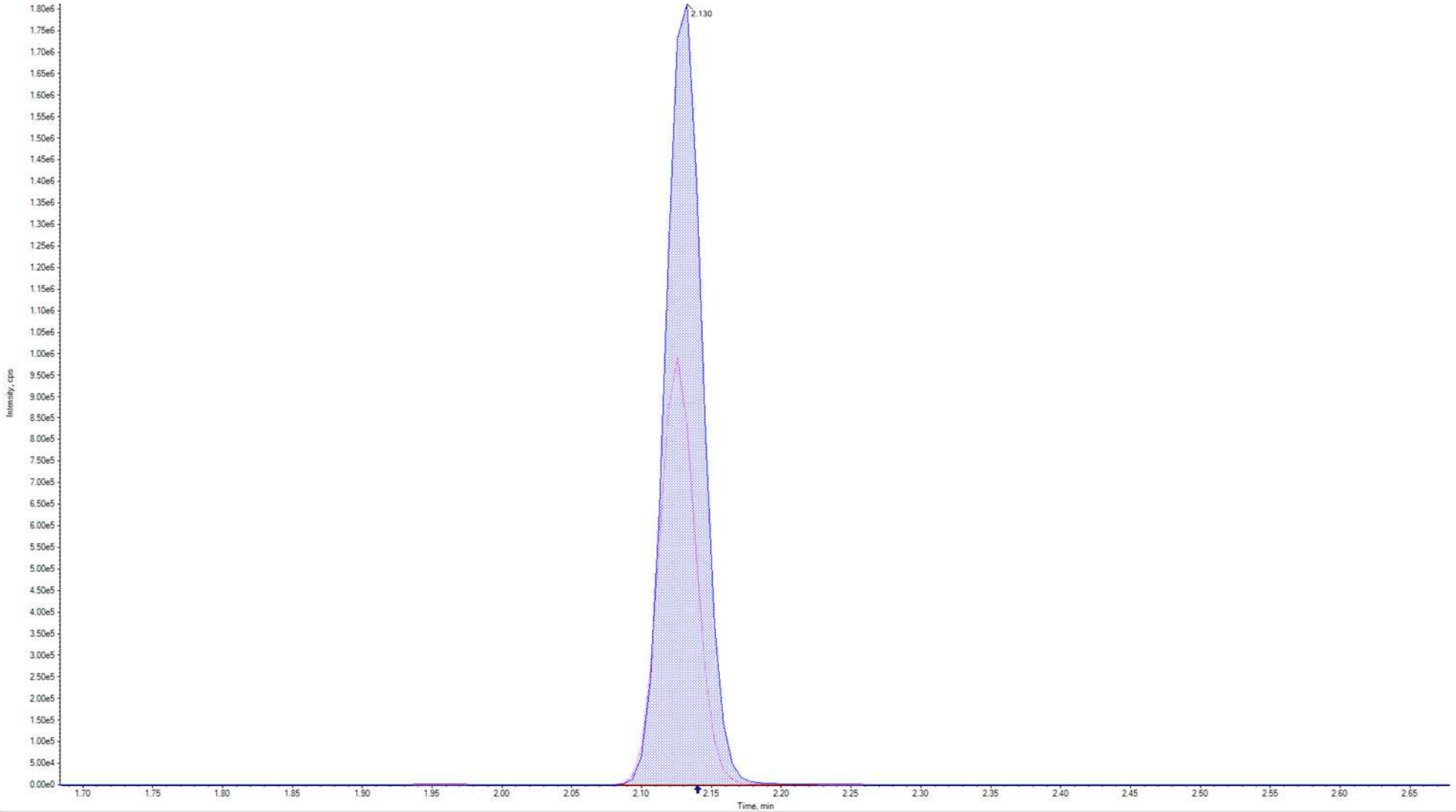
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Alpha Analytical LLC
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NEtFOSE
Sample: WG2038851-9,1633FMED S/N:446.0 Points Across peak:66



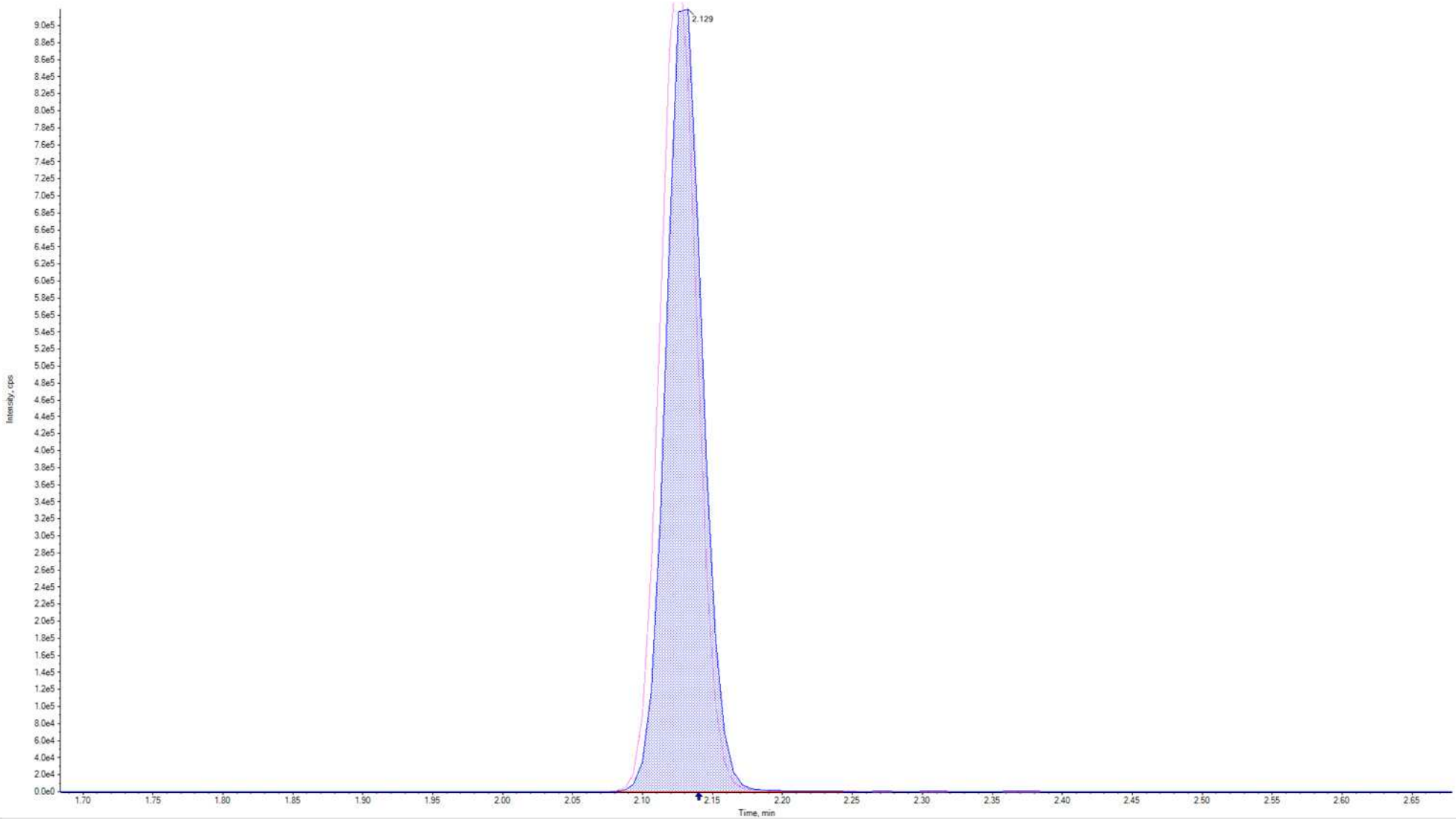
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Alpha Analytical LLC
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HFPO-DA
Sample: WG2038851-9,1633FMED S/N:40867.1 Points Across peak:26



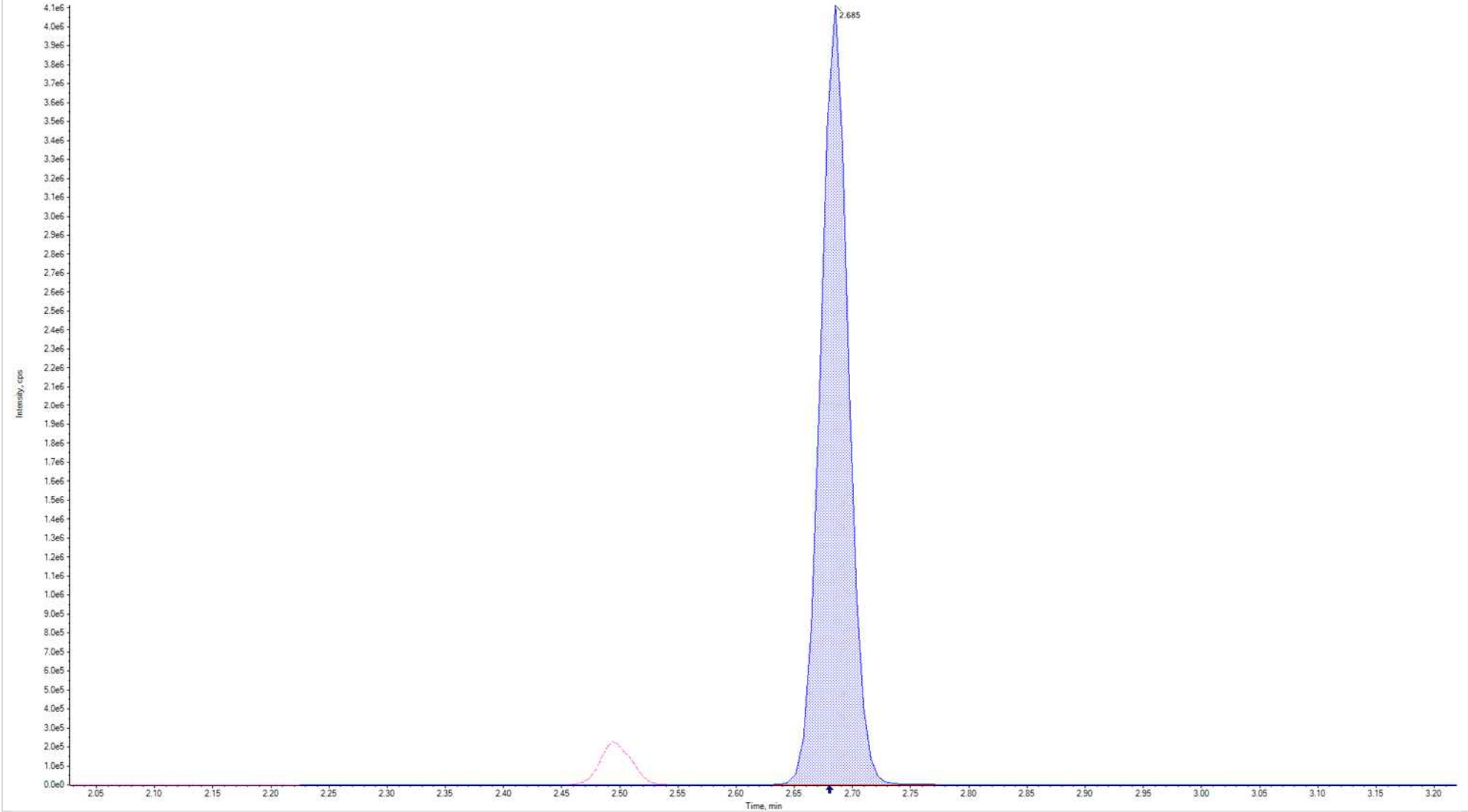
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Alpha Analytical LLC
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HFPO-DA_2
Sample: WG2038851-9,1633FMED S/N:20735.1 Points Across peak:30



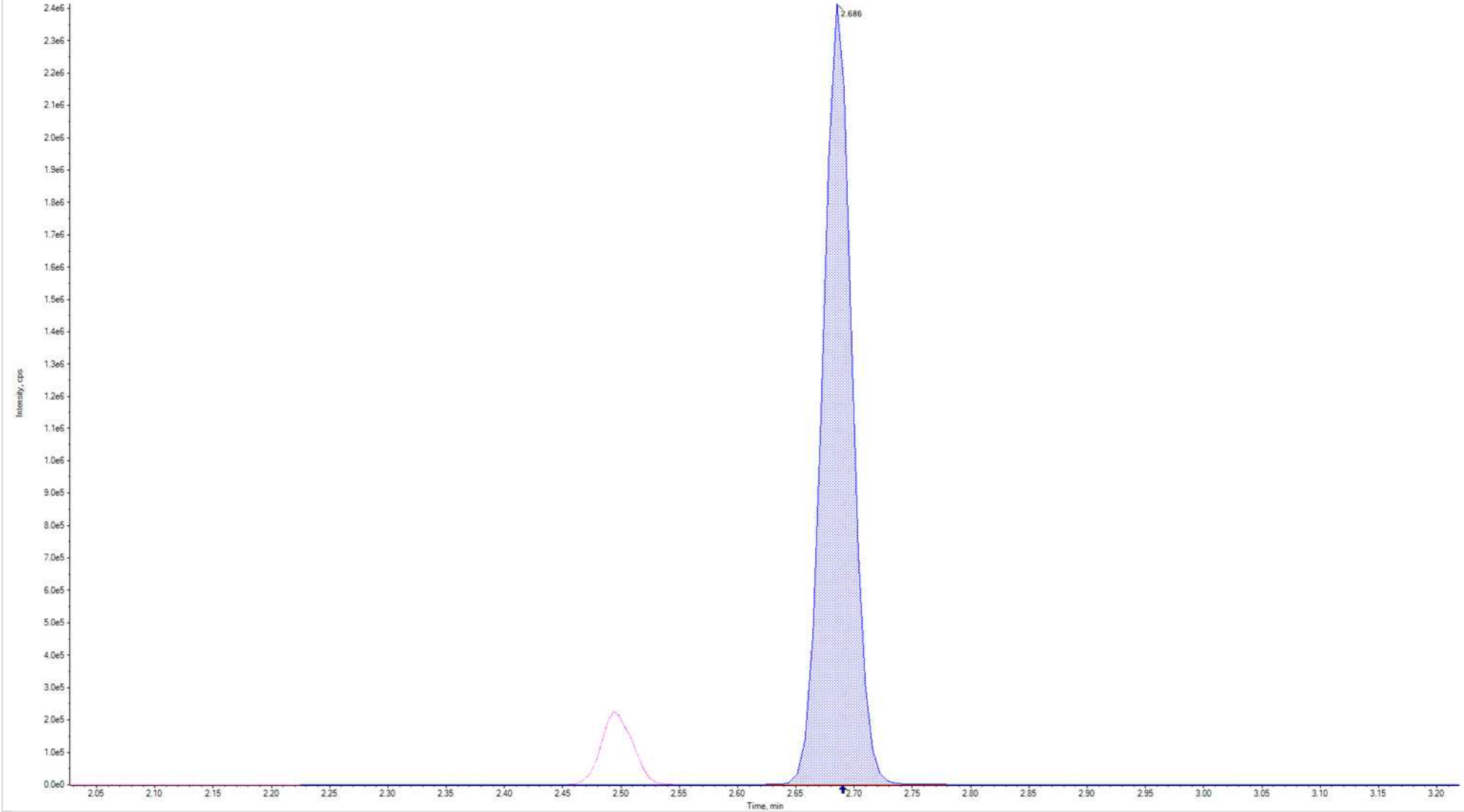
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Alpha Analytical LLC
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ADONA
Sample: WG2038851-9,1633FMED S/N:5967.7 Points Across peak:41



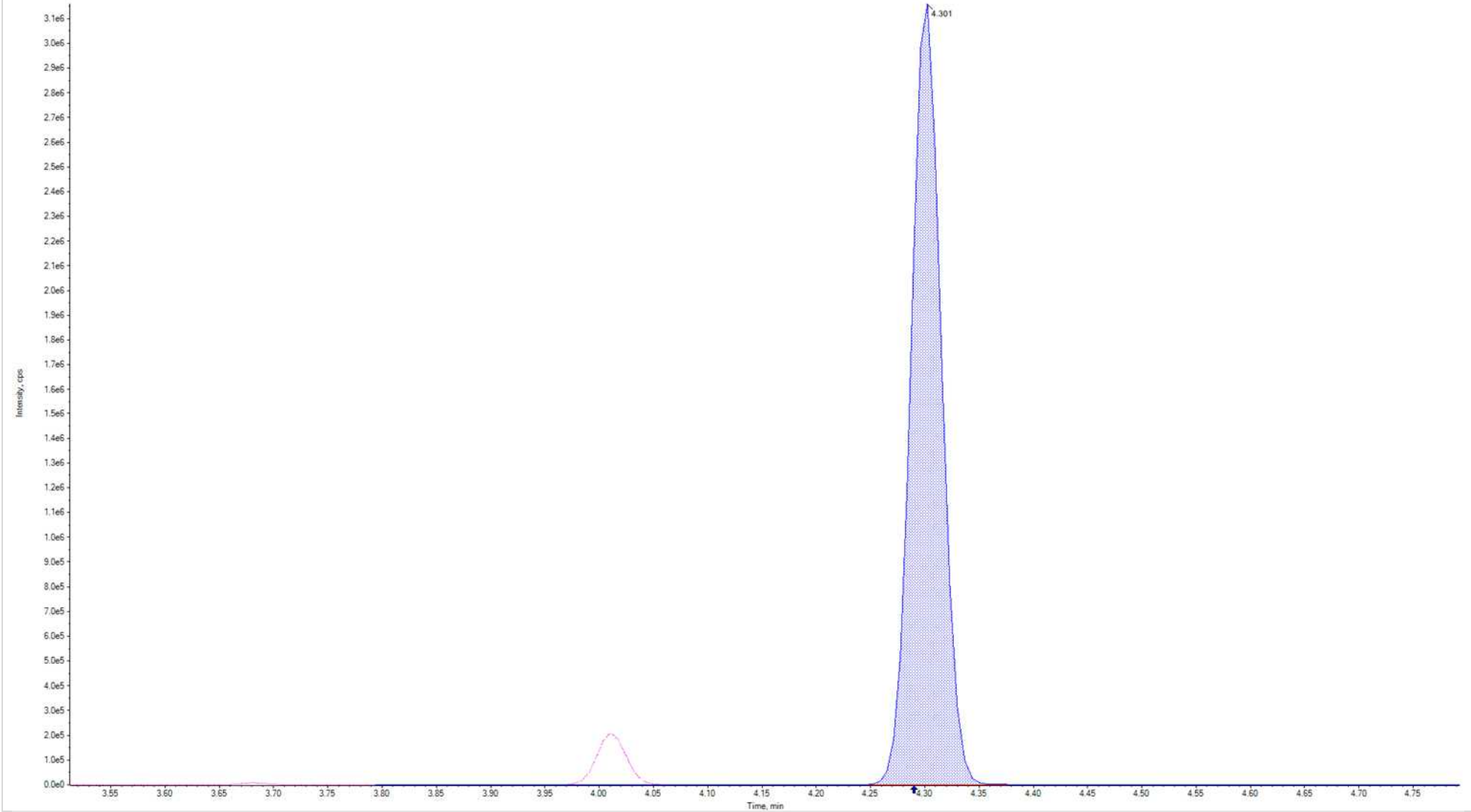
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Alpha Analytical LLC
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ADONA_2
Sample: WG2038851-9,1633FMED S/N:3965.4 Points Across peak:39



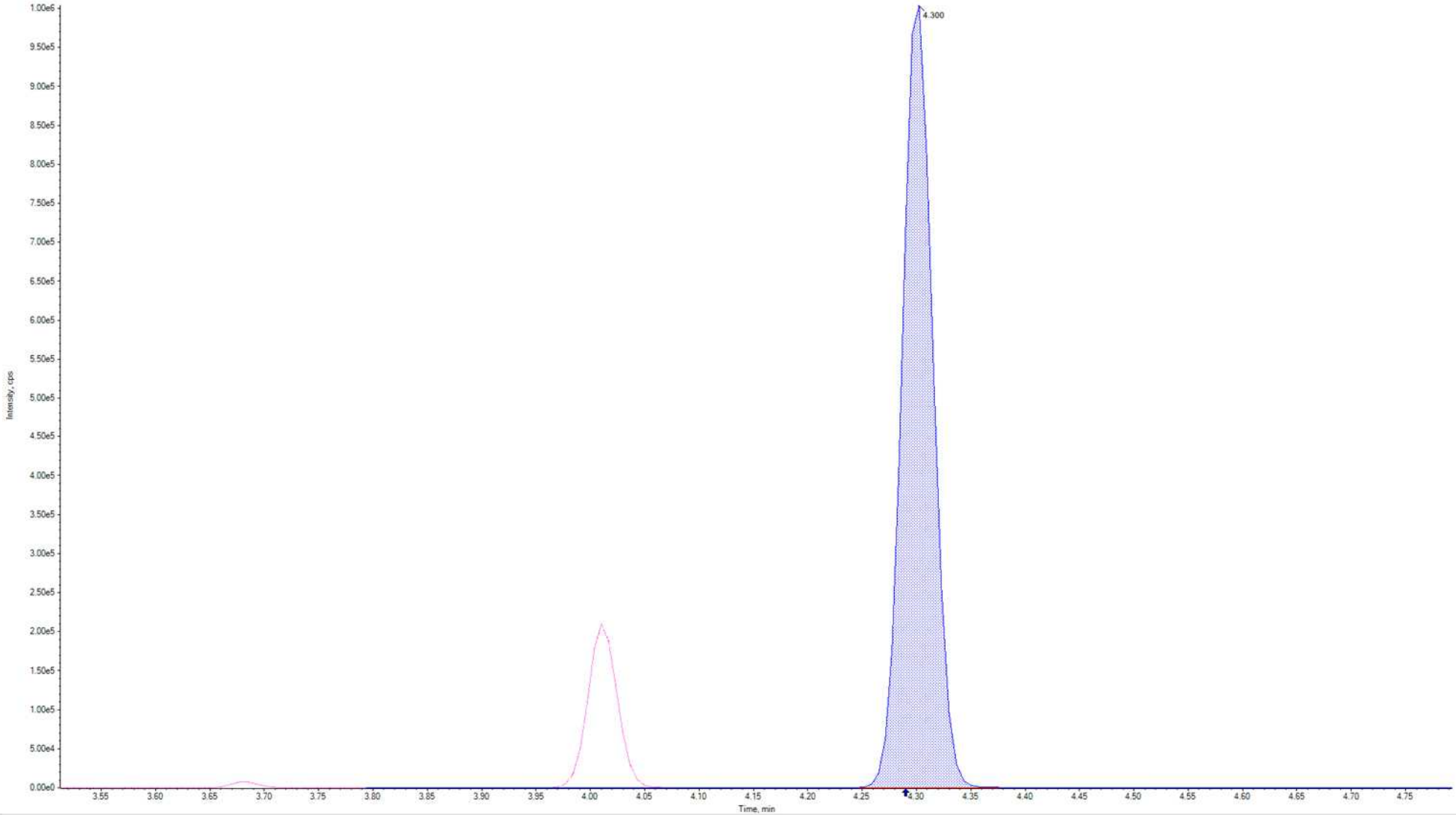
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9Cl-PF3ONS
Sample: WG2038851-9,1633FMED S/N:10350.4 Points Across peak:36



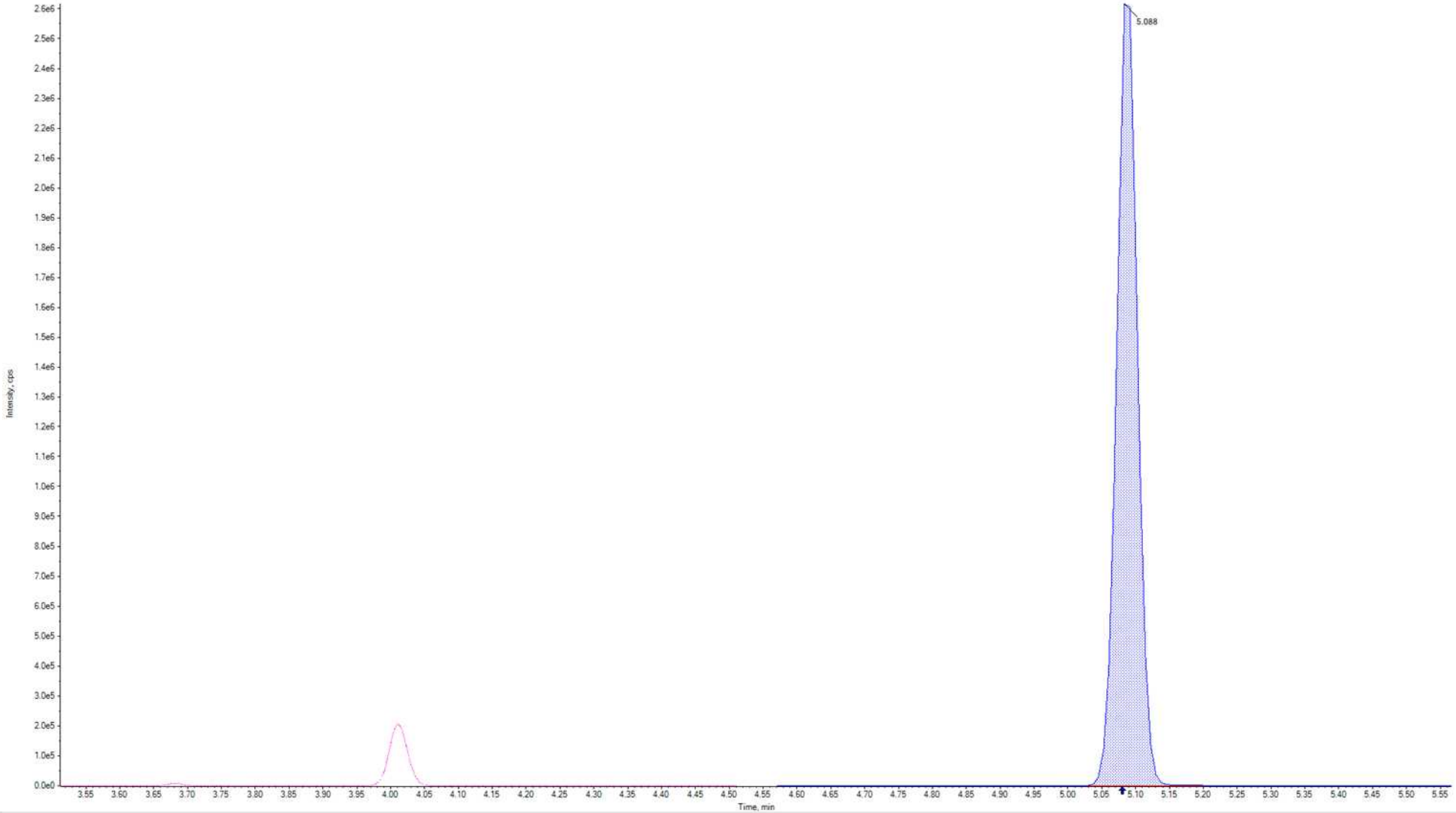
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9Cl-PF3ONS_2
Sample: WG2038851-9,1633FMED S/N:8741.5 Points Across peak:27



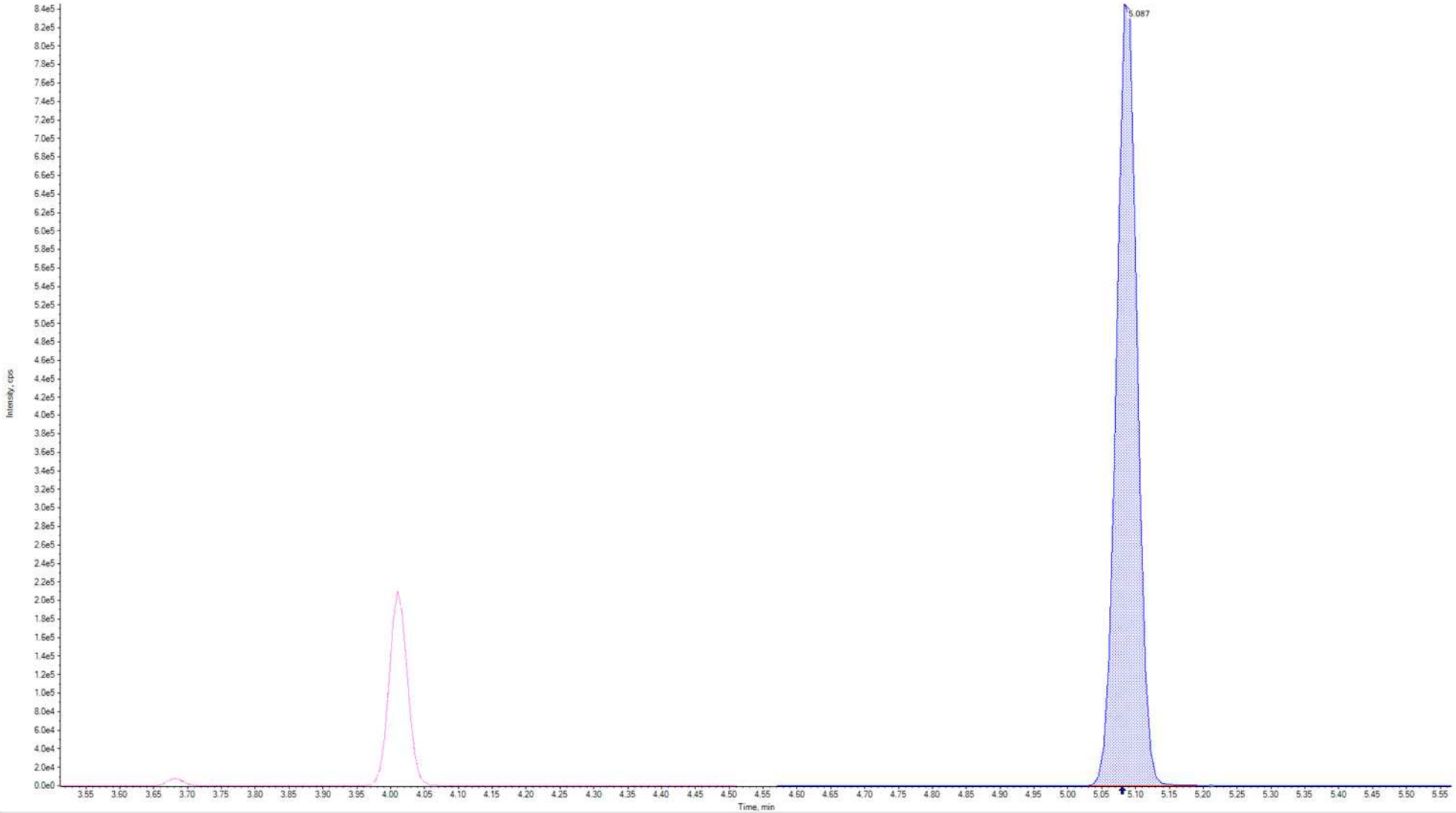
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11Cl-PF3OUdS
Sample: WG2038851-9,1633FMED S/N:124587.6 Points Across peak:31



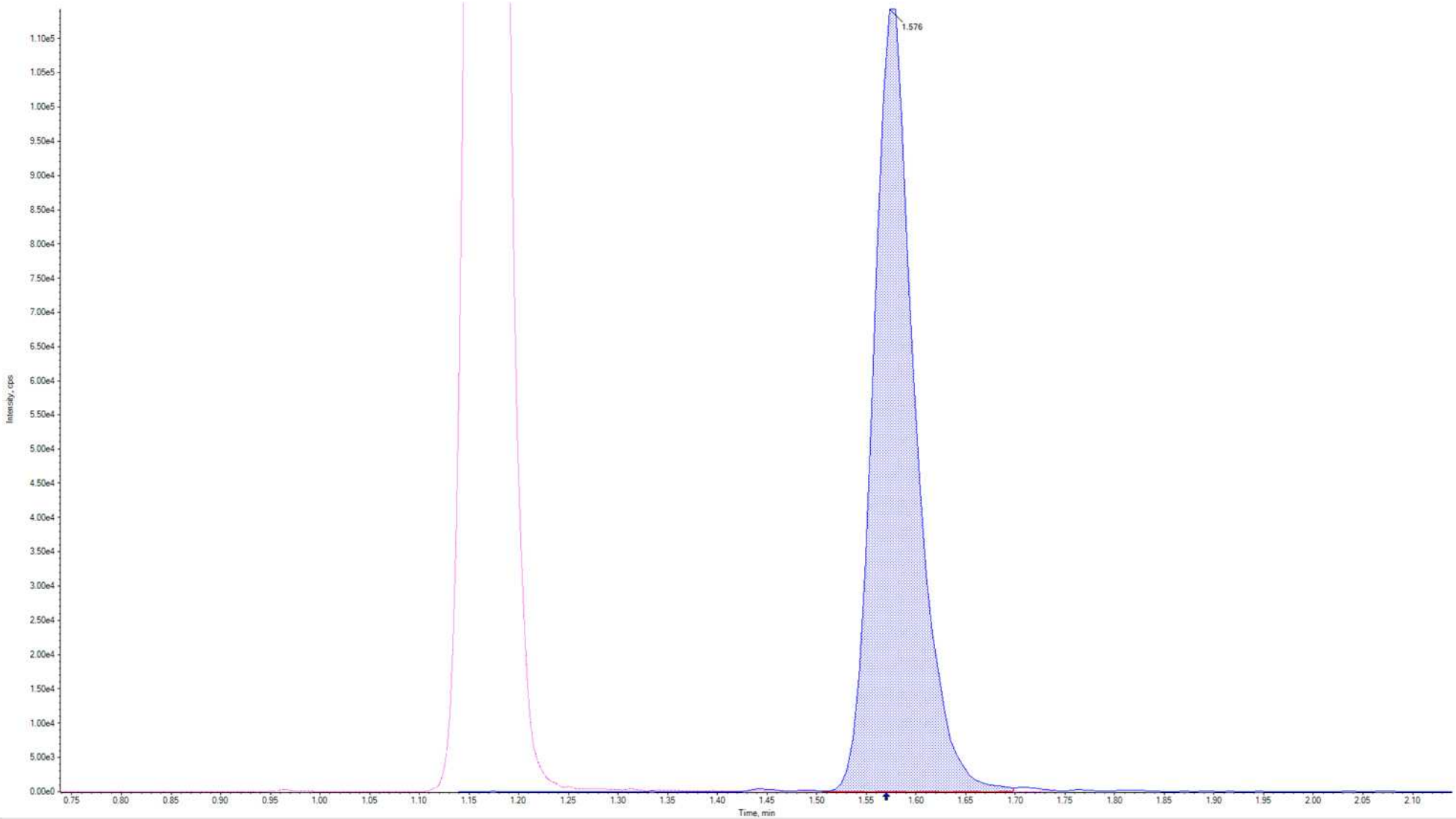
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11Cl-PF3OUdS_2
Sample: WG2038851-9,1633FMED S/N:7916.5 Points Across peak:30



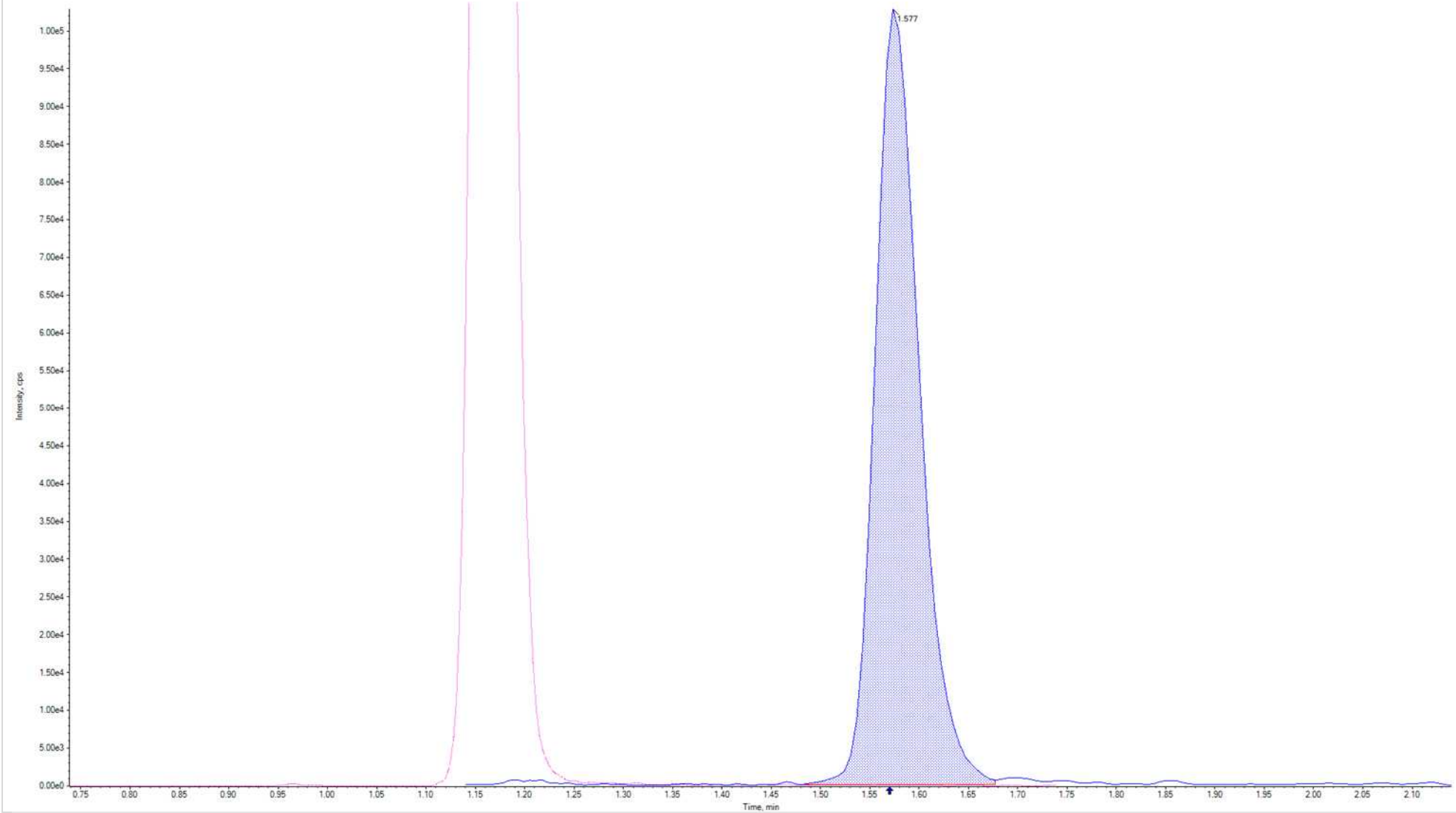
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3:3FTCA
Sample: WG2038851-9,1633FMED S/N:2864.7 Points Across peak:32



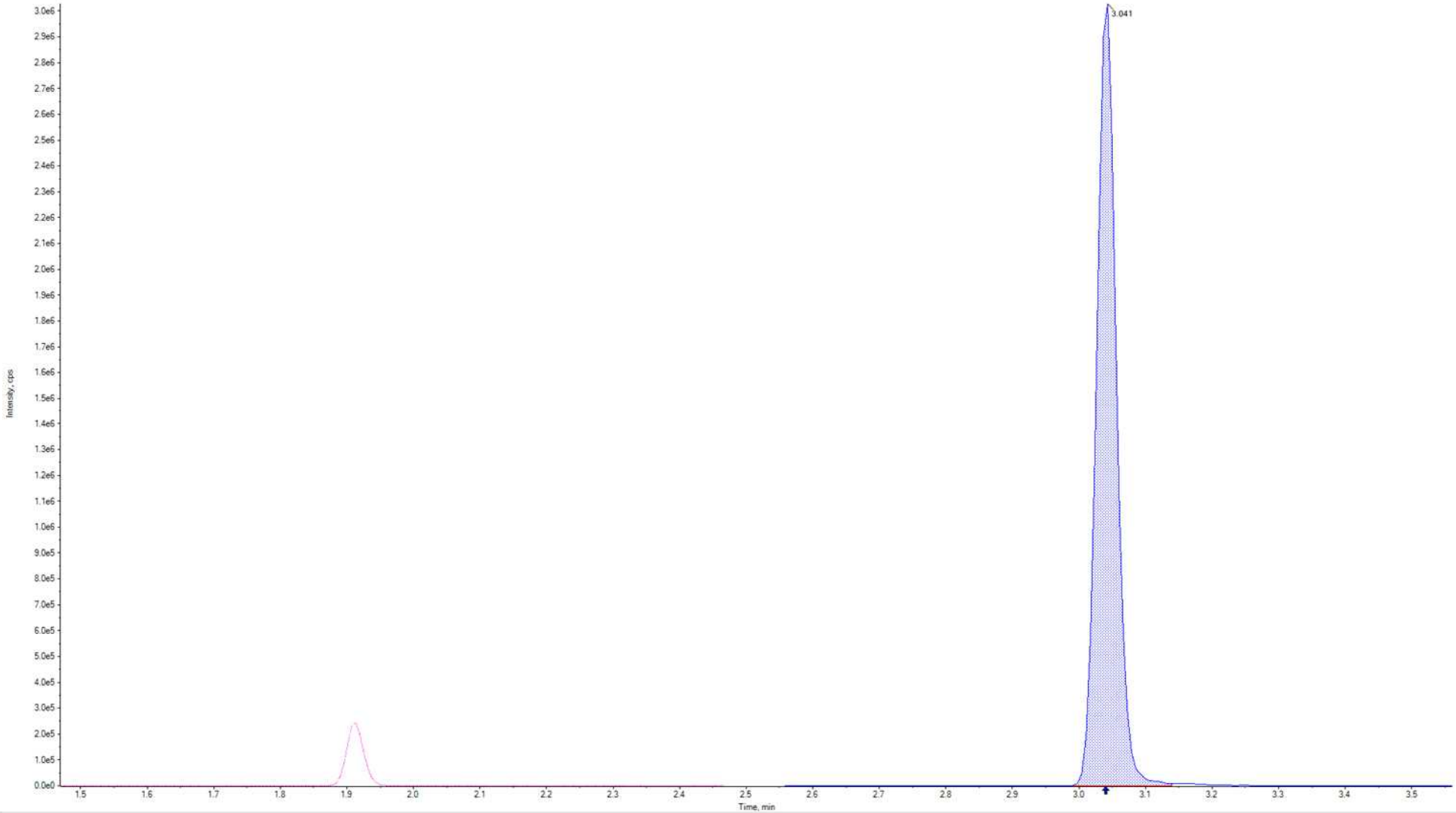
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3:3FTCA_2
Sample: WG2038851-9,1633FMED S/N:2275.5 Points Across peak:33



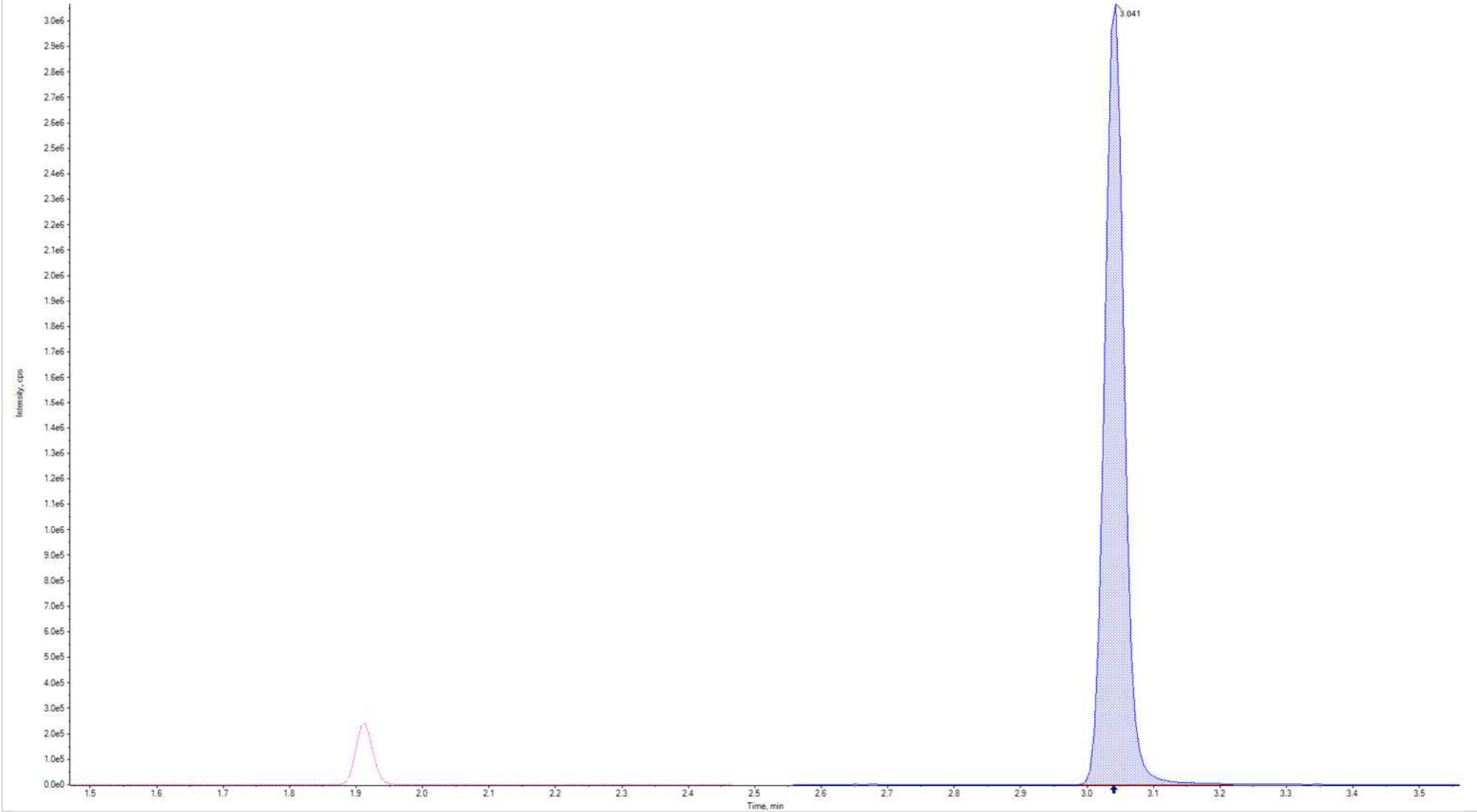
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Alpha Analytical LLC
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5:3FTCA
Sample: WG2038851-9,1633FMED S/N:68296.6 Points Across peak:29



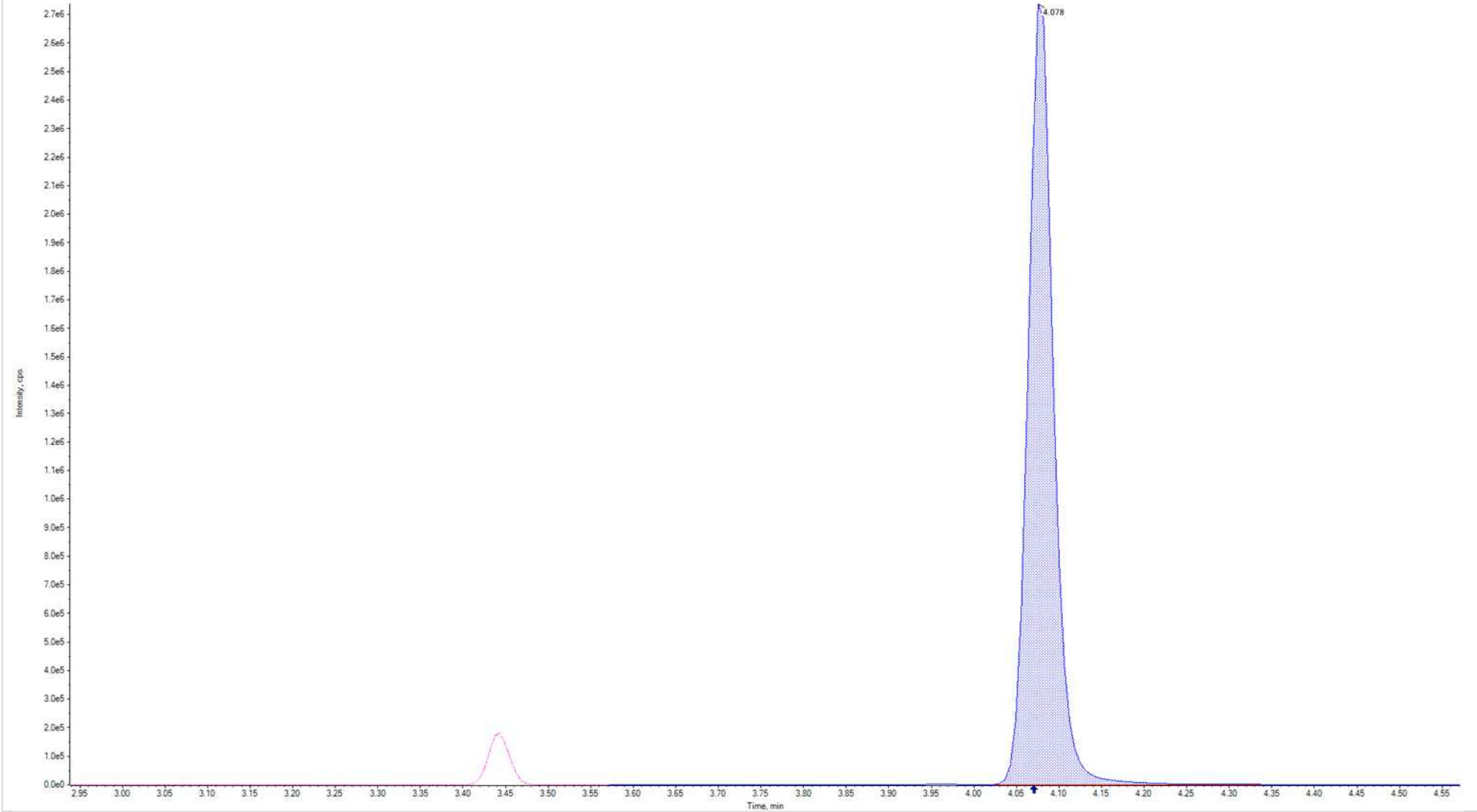
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5:3FTCA_2
Sample: WG2038851-9,1633FMED S/N:7356.6 Points Across peak:40



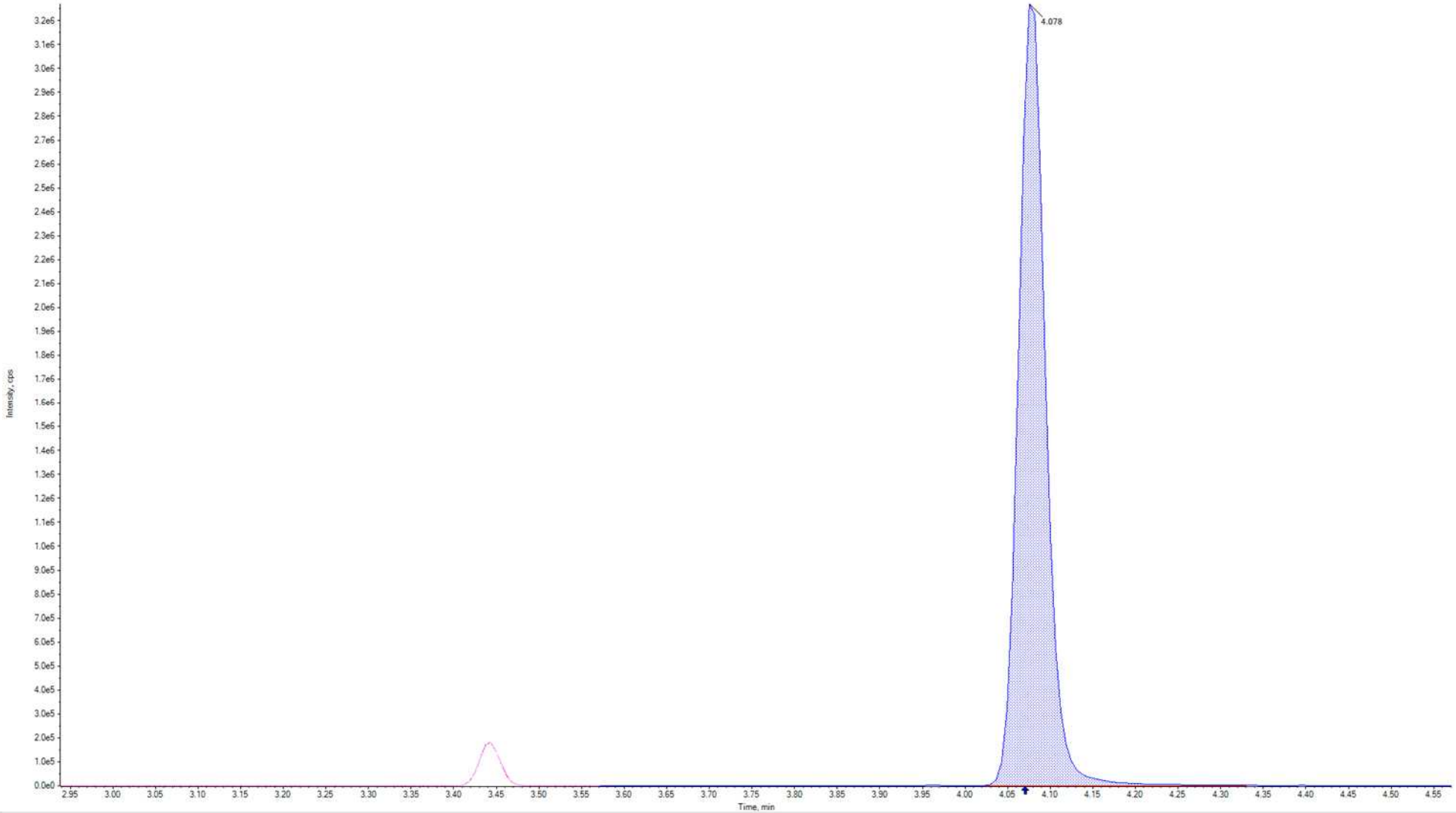
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7:3FTCA
Sample: WG2038851-9,1633FMED S/N:75461.9 Points Across peak:55



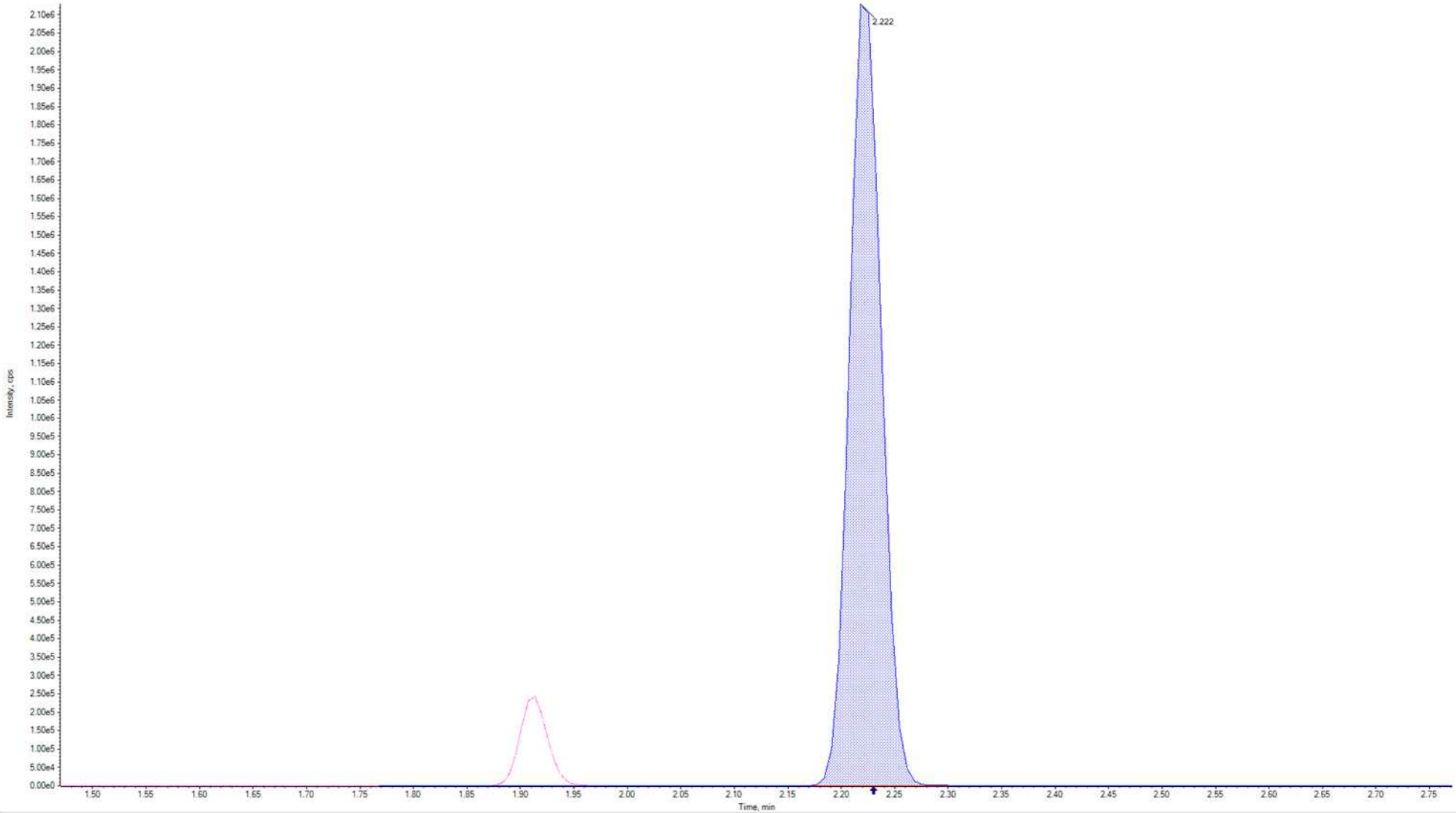
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Alpha Analytical LLC
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7:3FTCA_2
Sample: WG2038851-9,1633FMED S/N:90141.6 Points Across peak:52



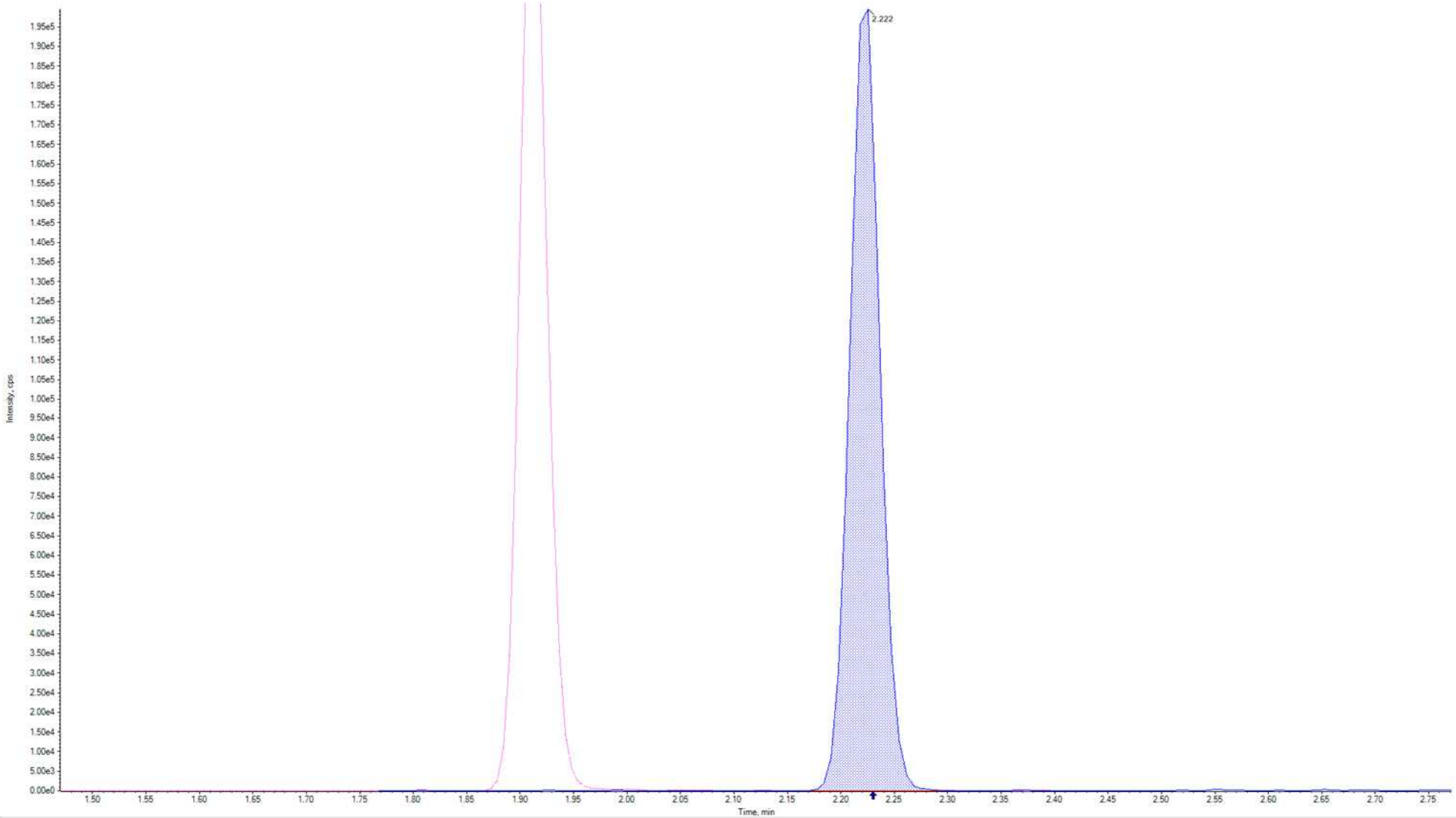
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Alpha Analytical LLC
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PFEESA
Sample: WG2038851-9,1633FMED S/N:7946.2 Points Across peak:30



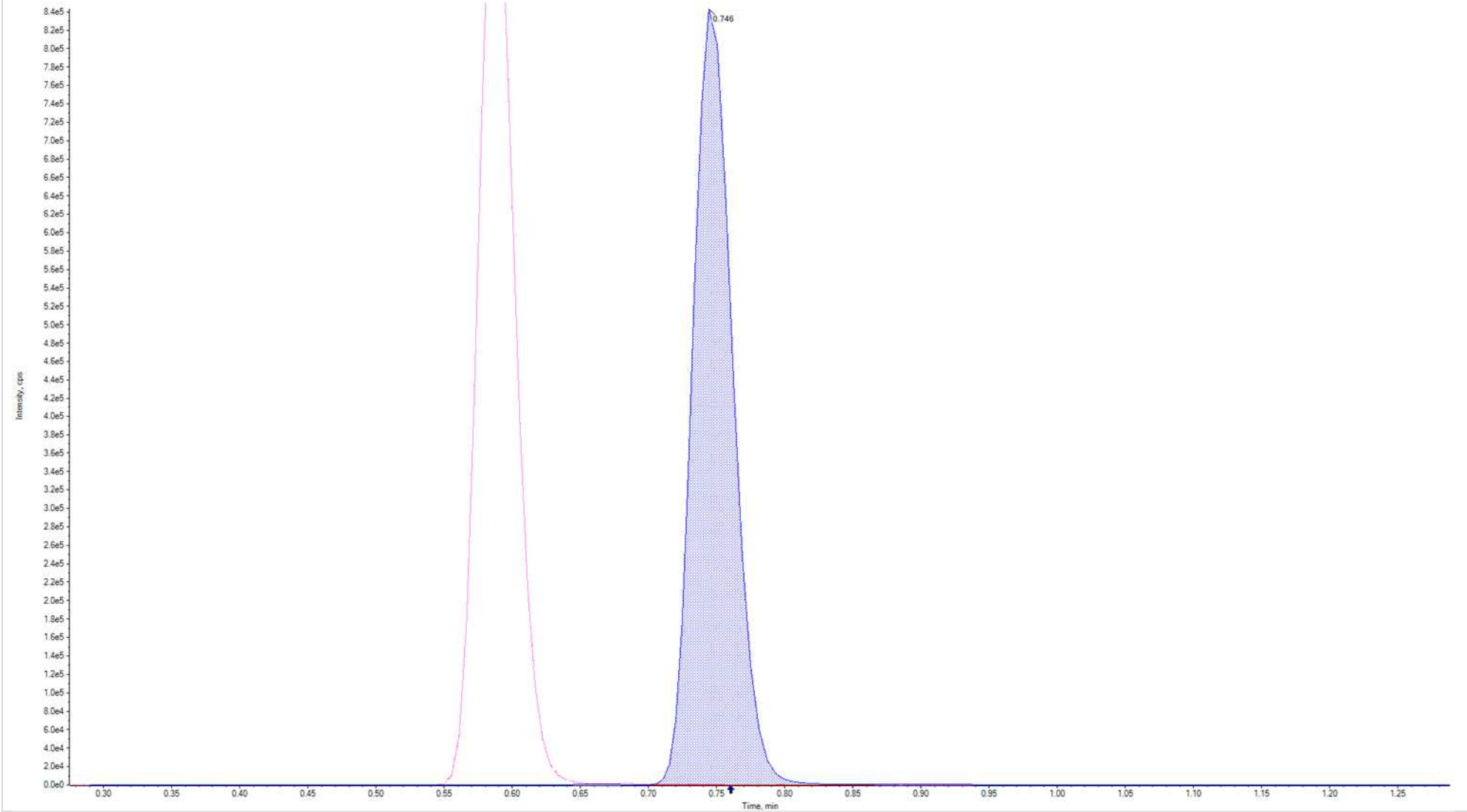
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PFEESA_2
Sample: WG2038851-9,1633FMED S/N:3063.2 Points Across peak:24



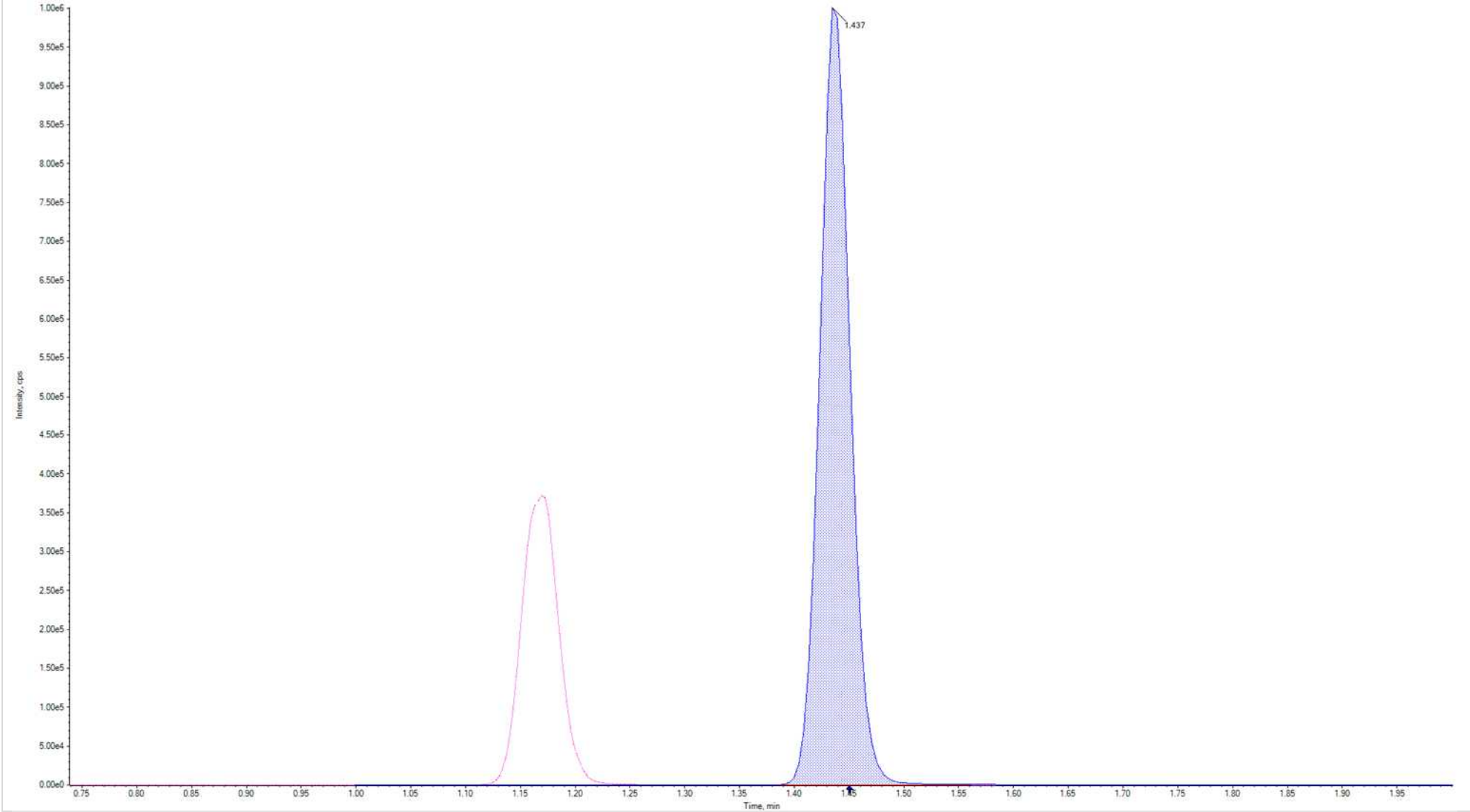
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Alpha Analytical LLC
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PFMPA
Sample: WG2038851-9,1633FMED S/N:20873.4 Points Across peak:32



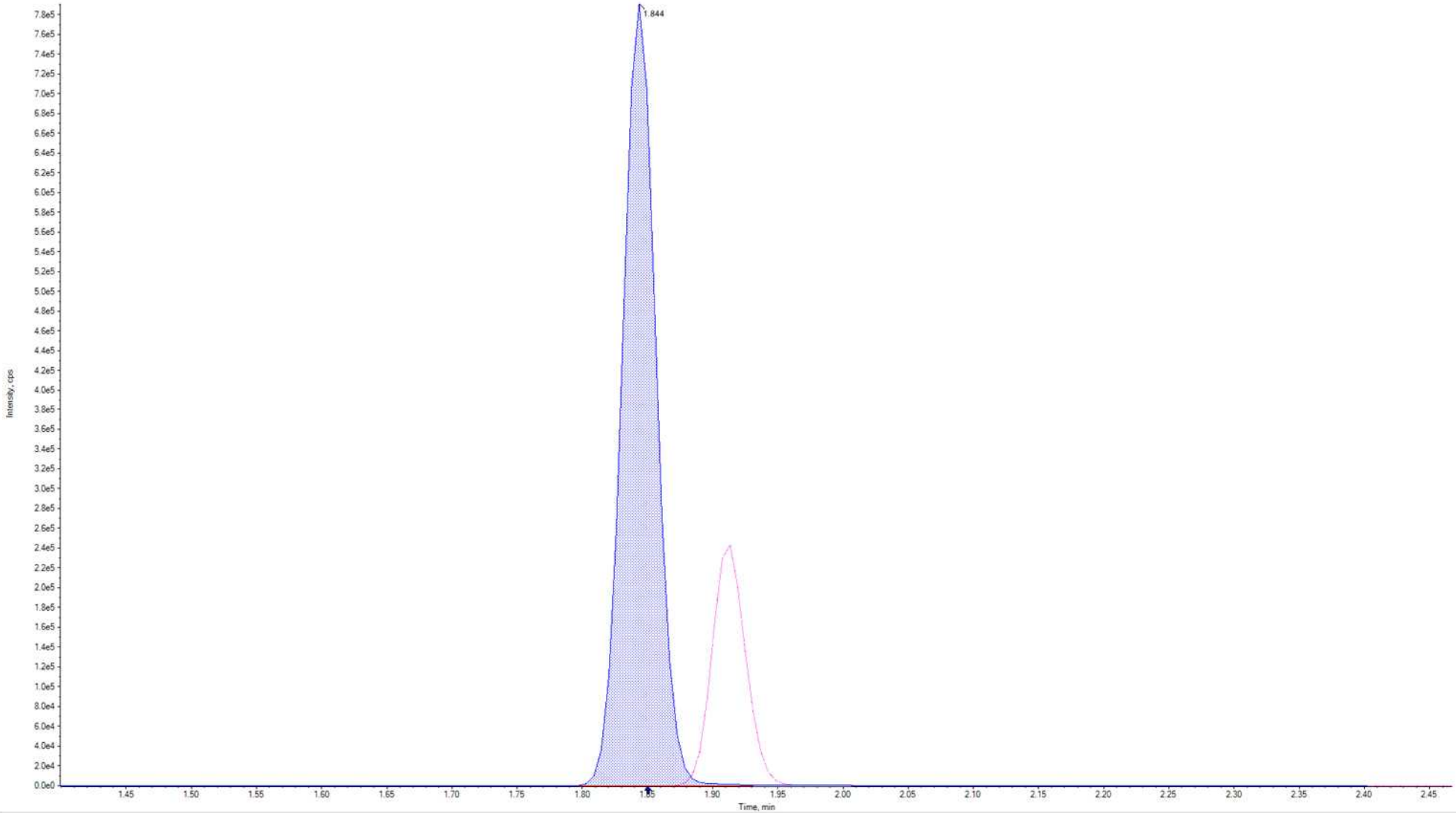
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PFMBA
Sample: WG2038851-9,1633FMED S/N:51308.2 Points Across peak:41



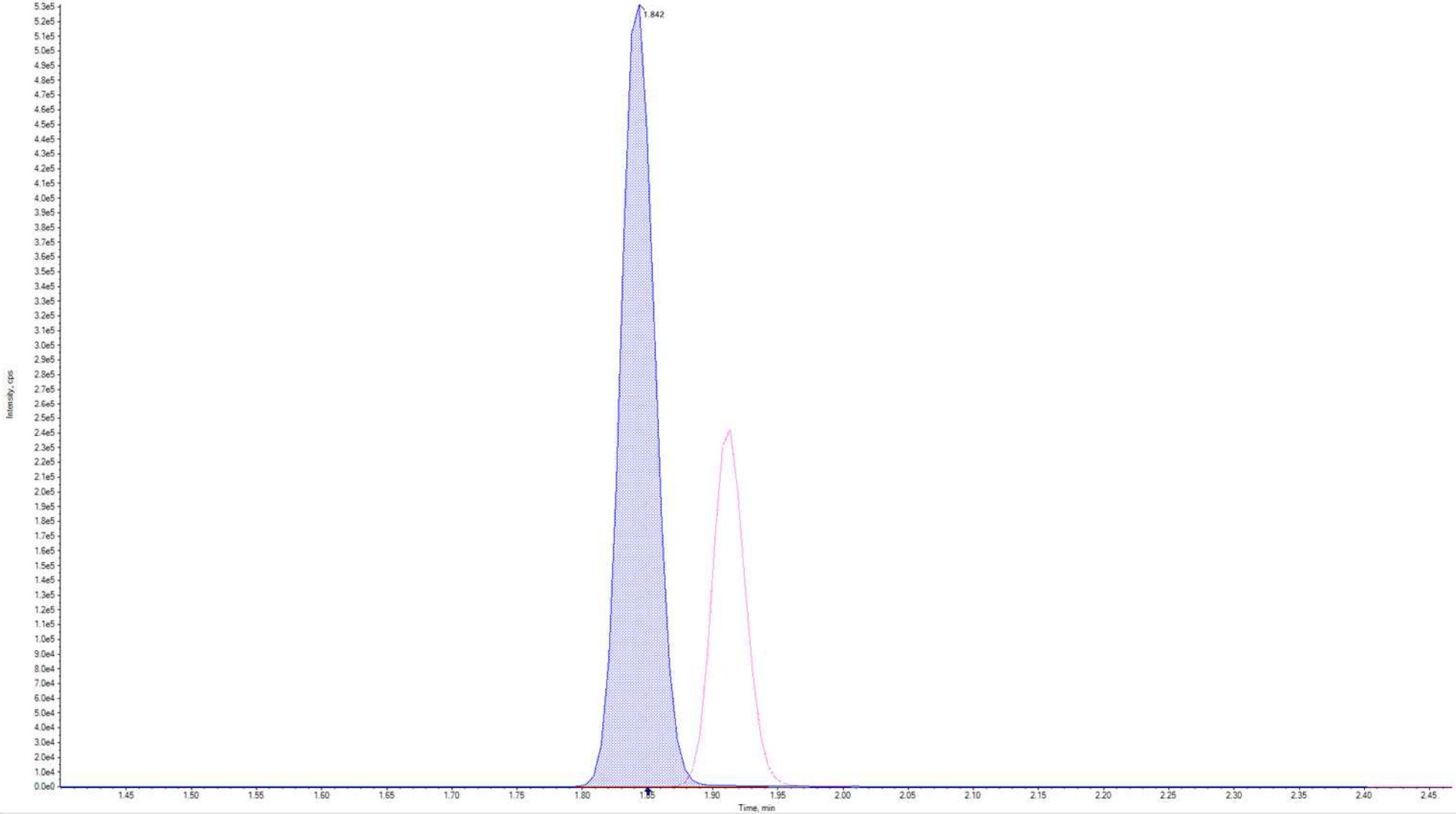
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NFDHA
Sample: WG2038851-9,1633FMED S/N:4810.4 Points Across peak:26



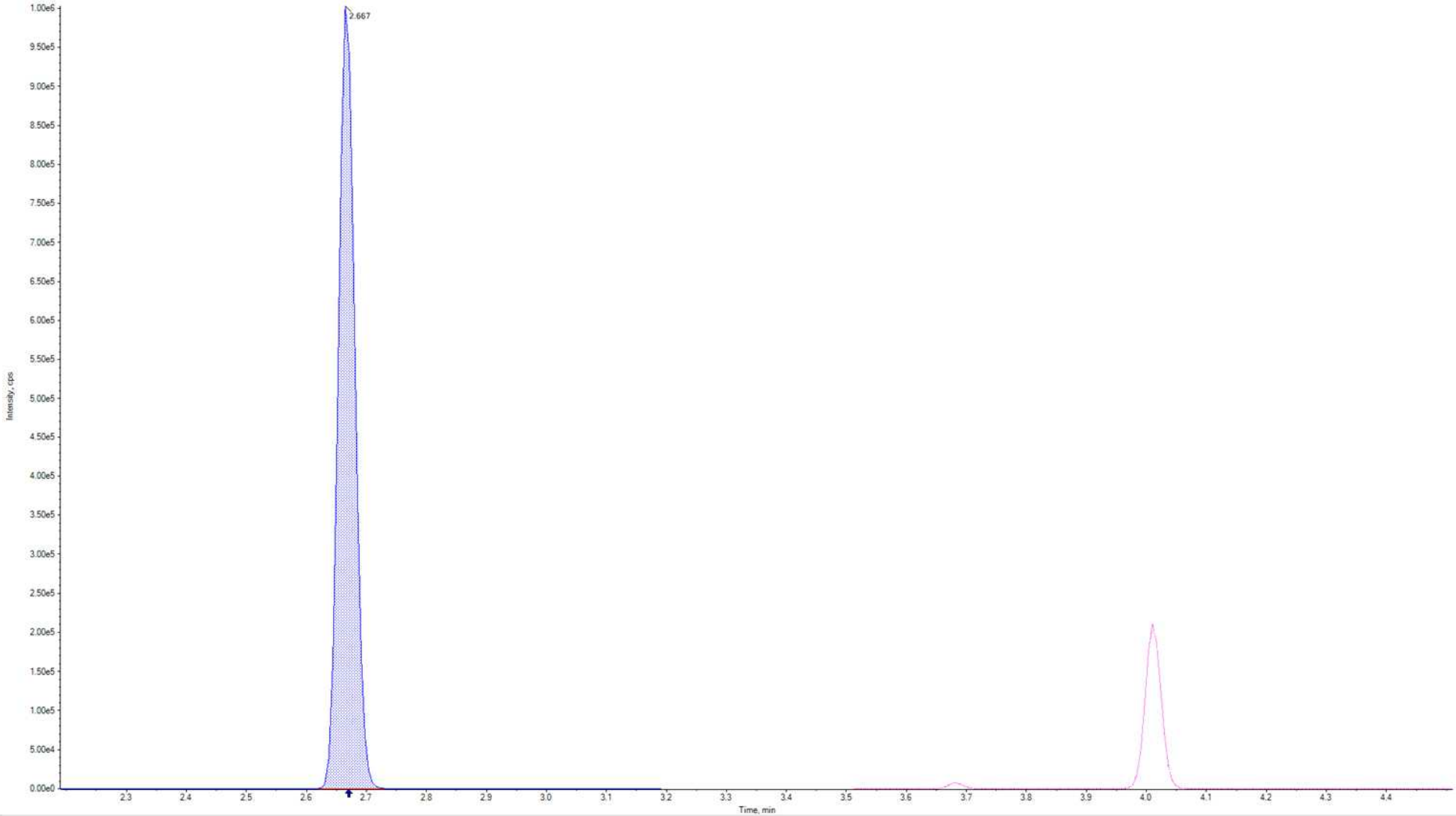
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NFDHA_2
Sample: WG2038851-9,1633FMED S/N:14652.6 Points Across peak:29



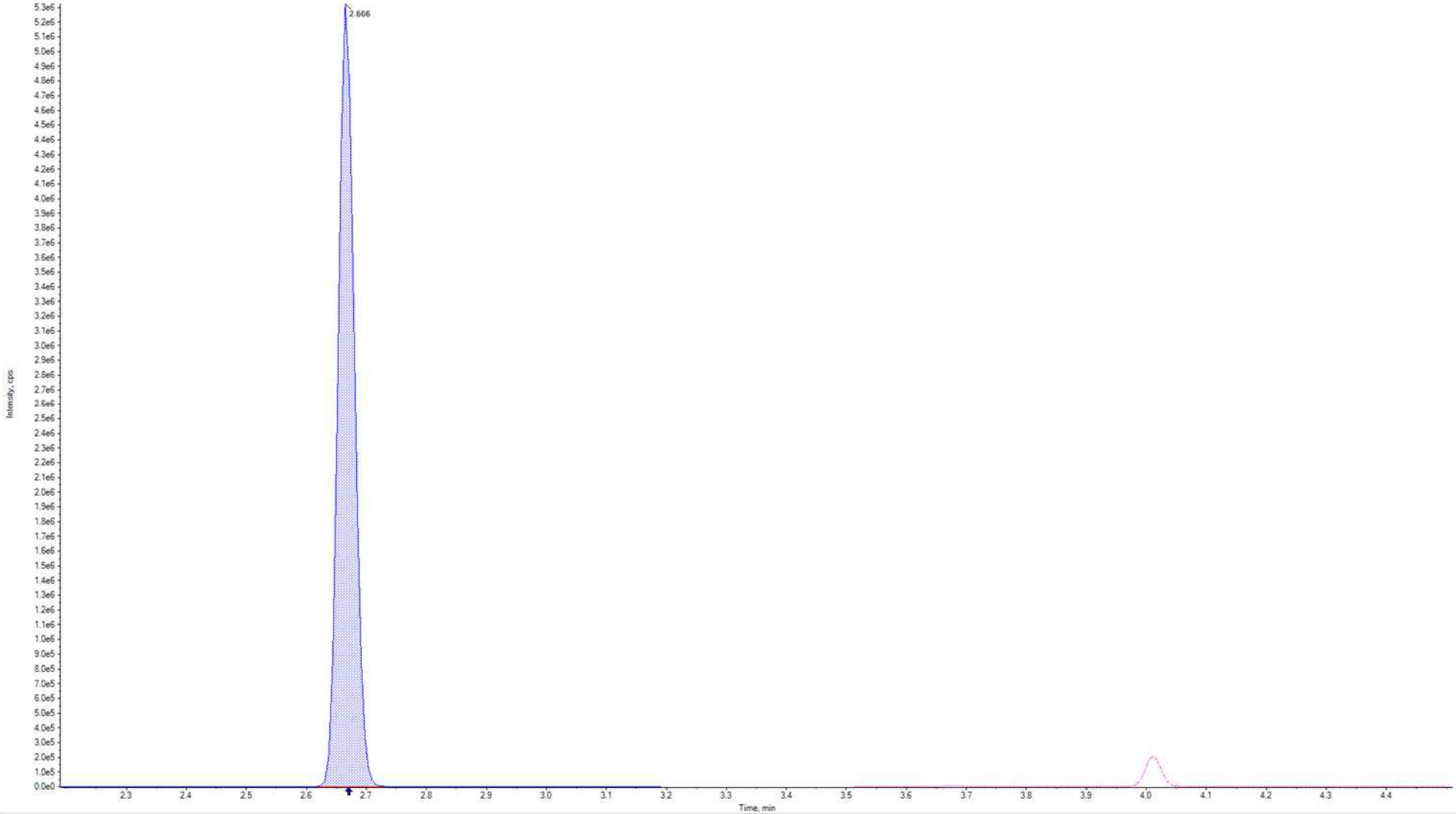
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TDCA
Sample: WG2038851-9,1633FMED S/N:20105.7 Points Across peak:33



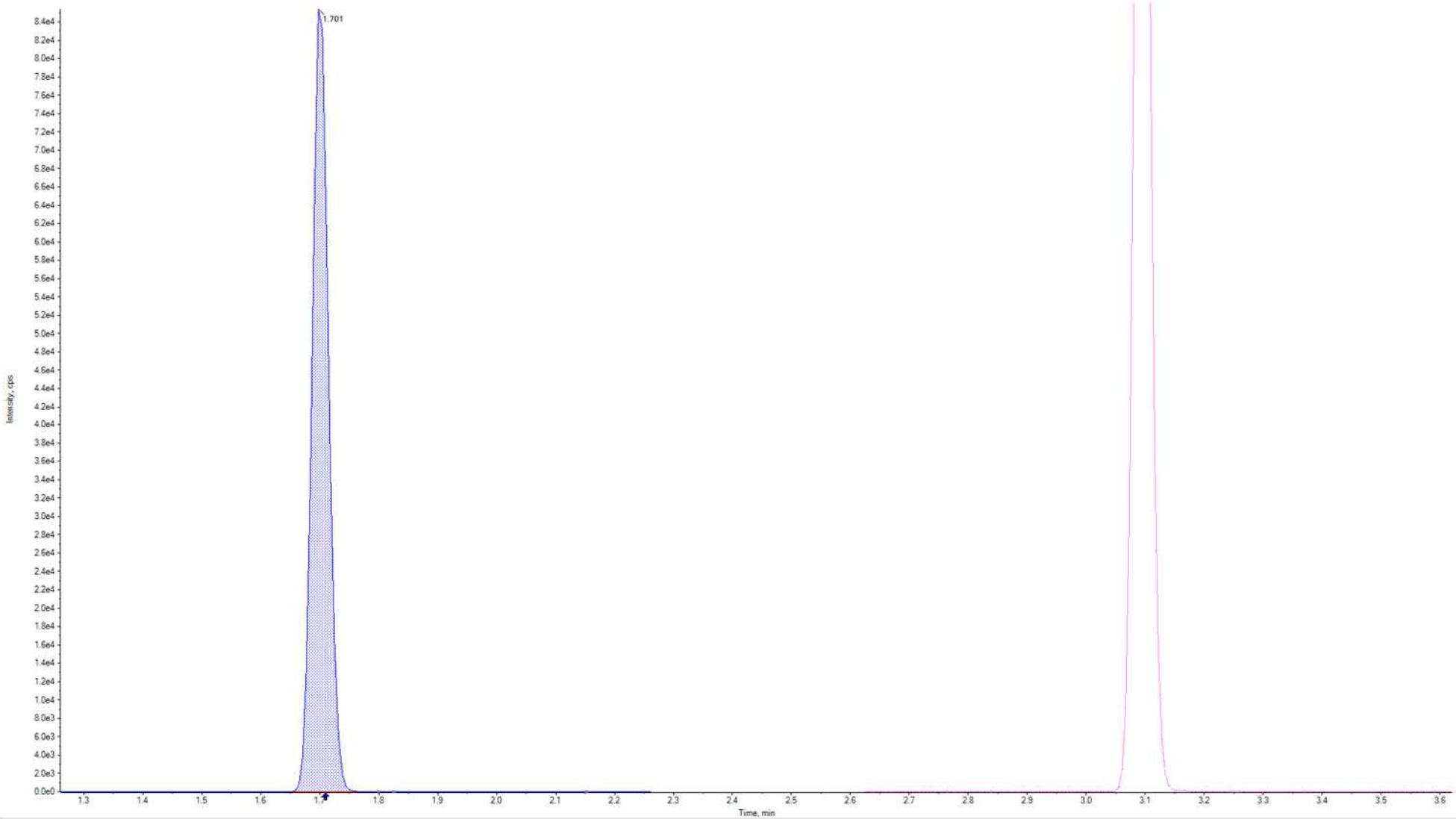
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TDCA_2
Sample: WG2038851-9,1633FMED S/N:9865.1 Points Across peak:25



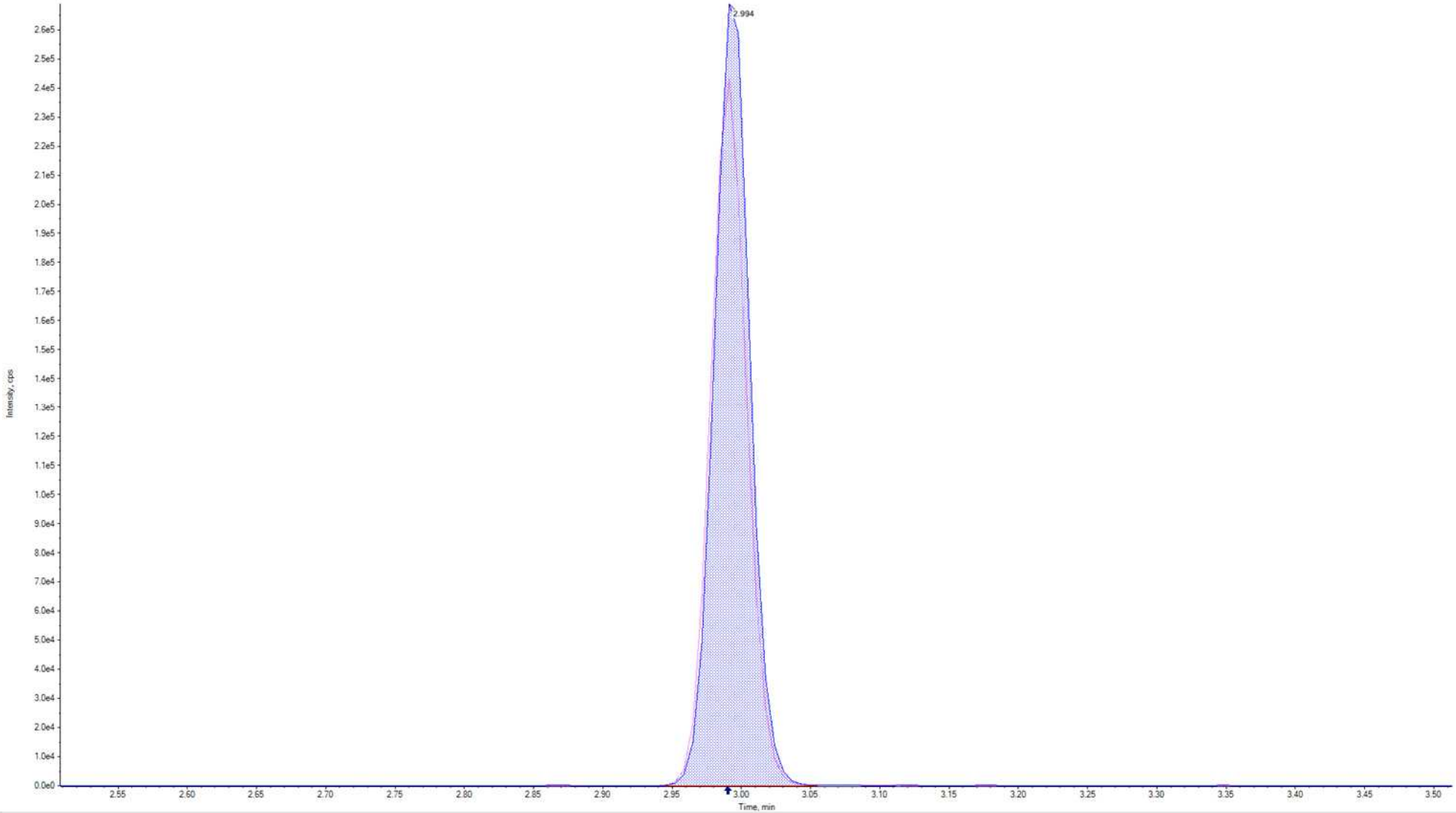
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13C2D4-4:2FTS
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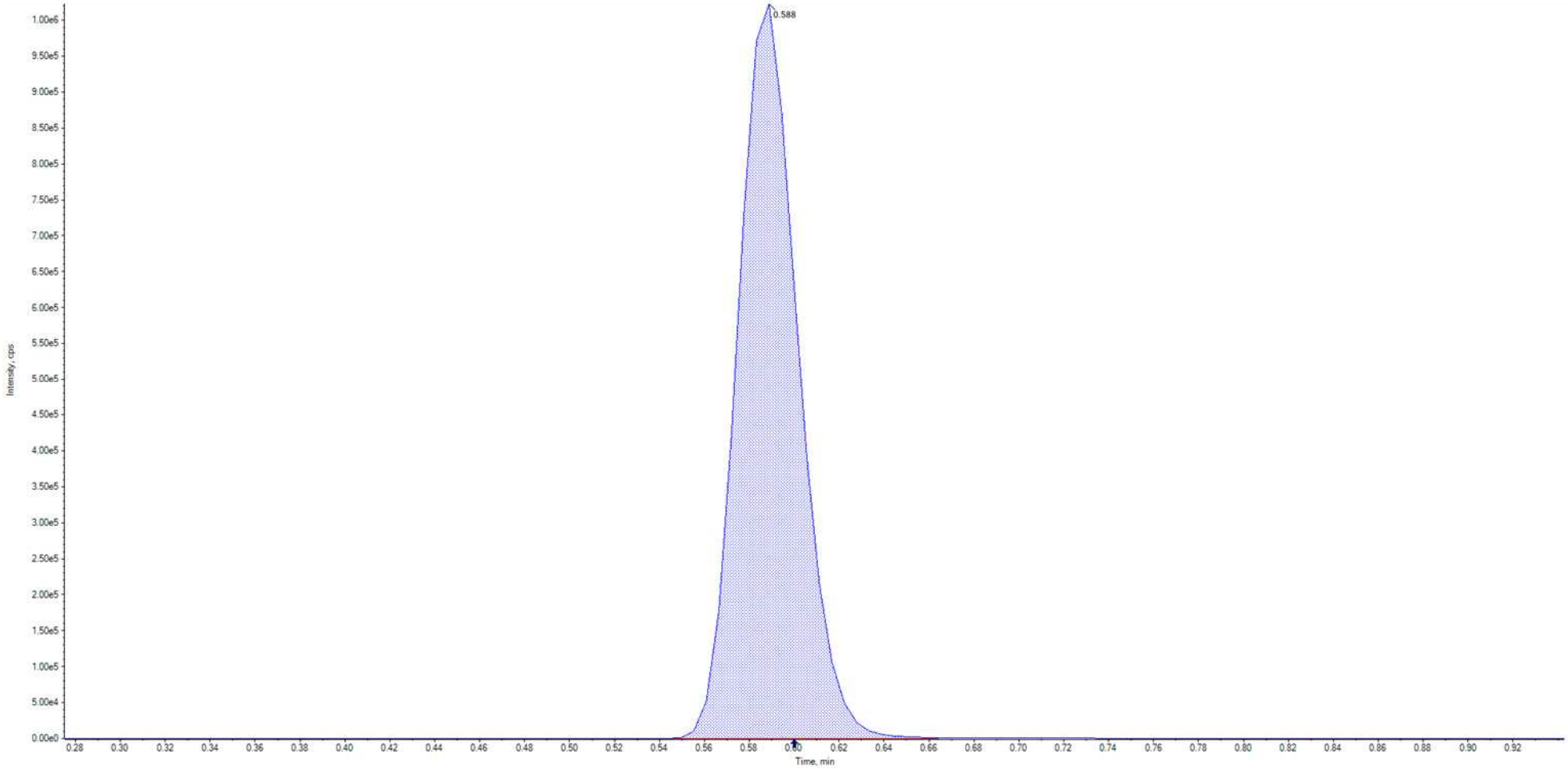


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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13C2-PFOA
Sample: WG2038851-9,1633FMED S/N:3452.2 Points Across peak:21

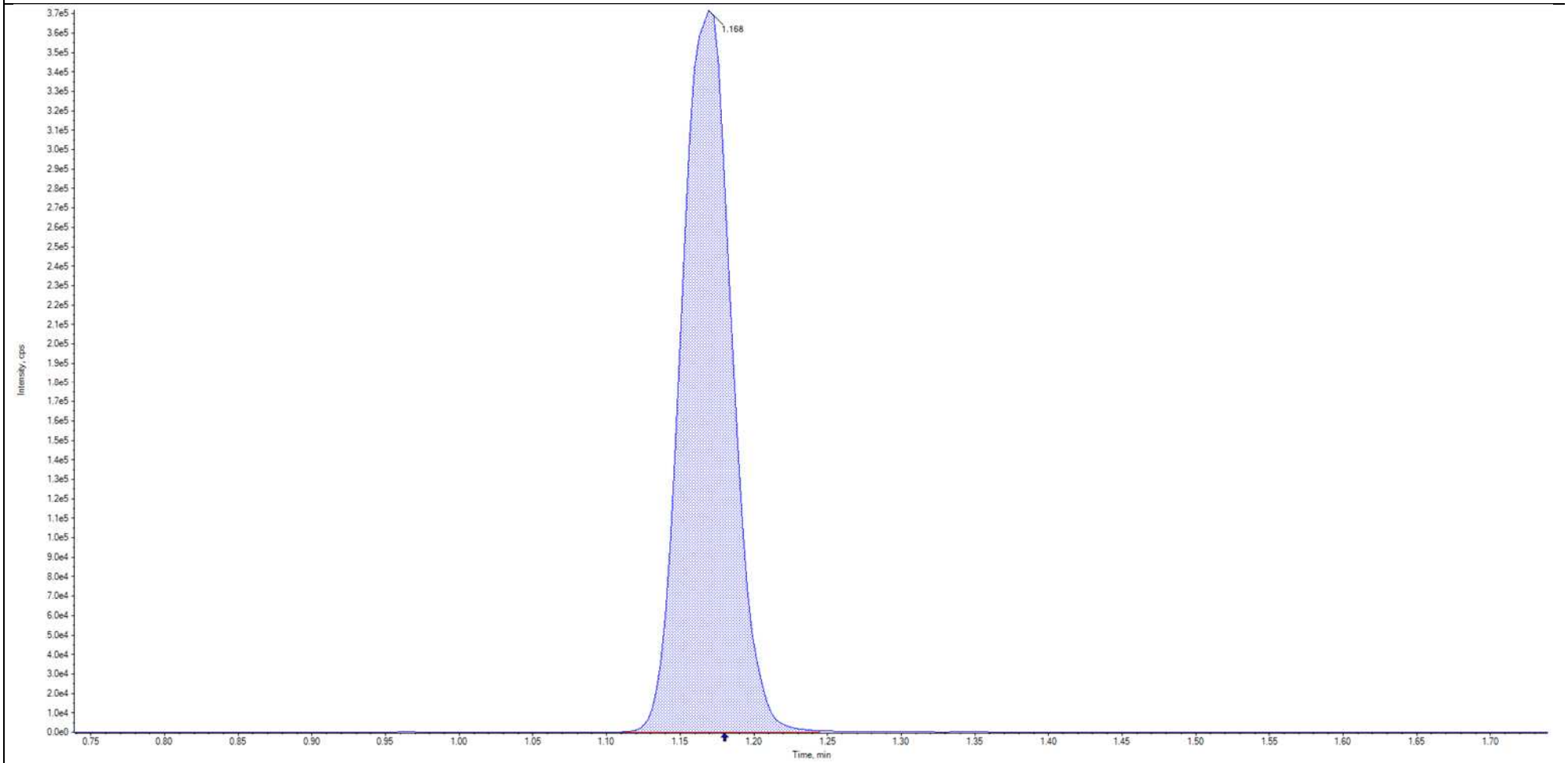


13C4-PFBA
Sample: WG2038851-9,1633FMED



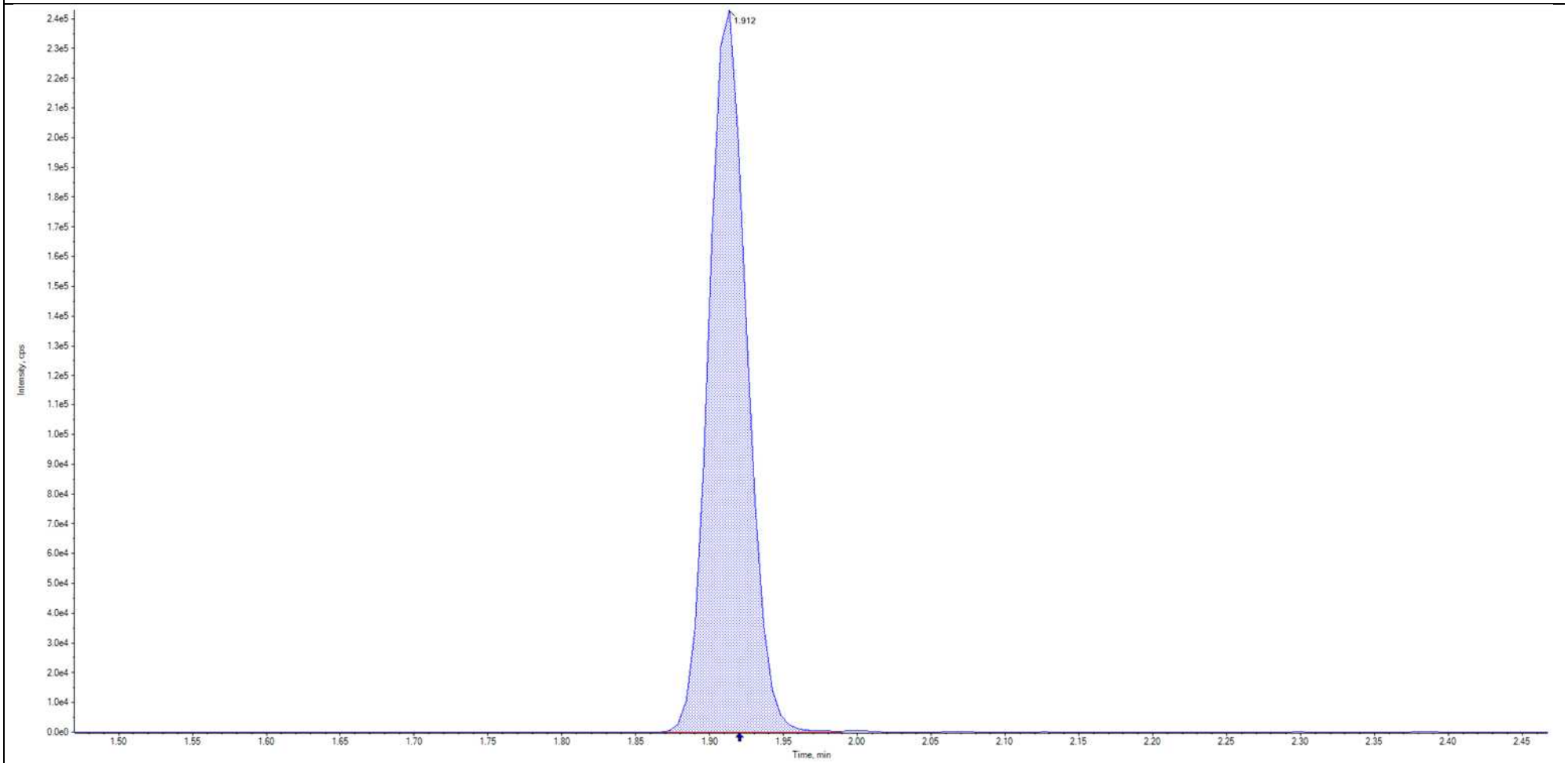
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

13C5-PFPeA
Sample: WG2038851-9,1633FMED



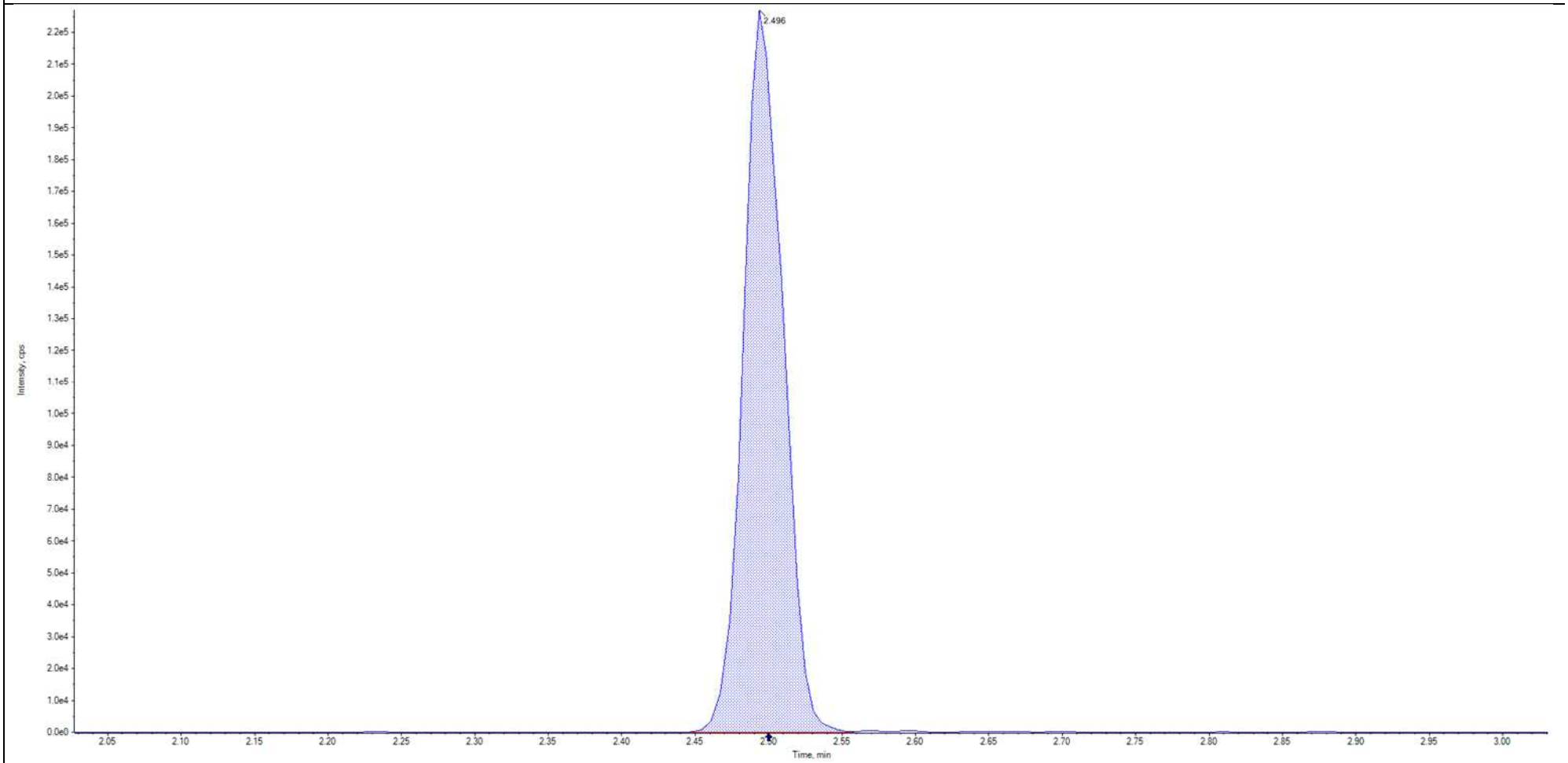
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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13C5-PFHxA
Sample: WG2038851-9,1633FMED

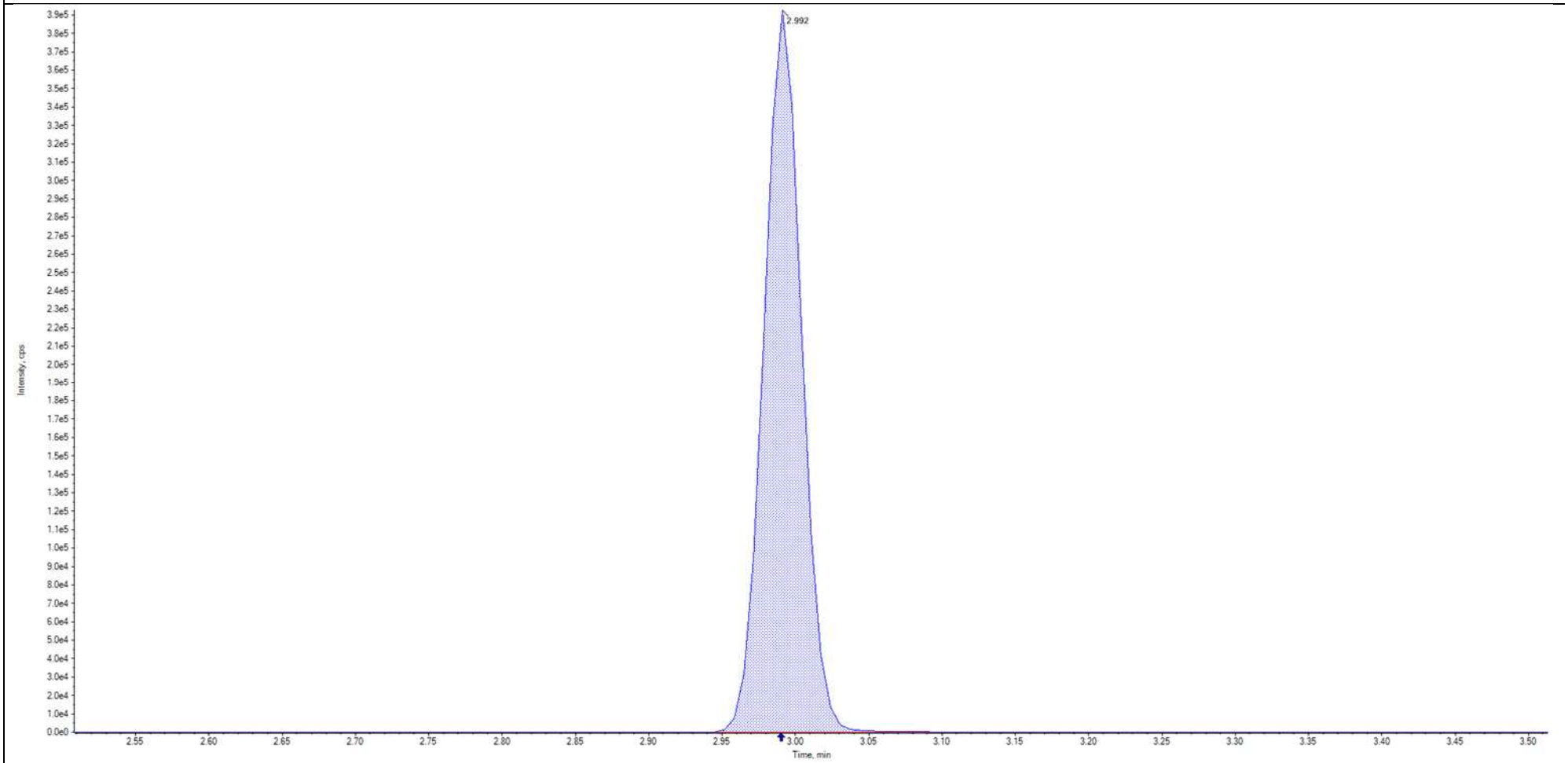


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C4-PFHpA
Sample: WG2038851-9,1633FMED

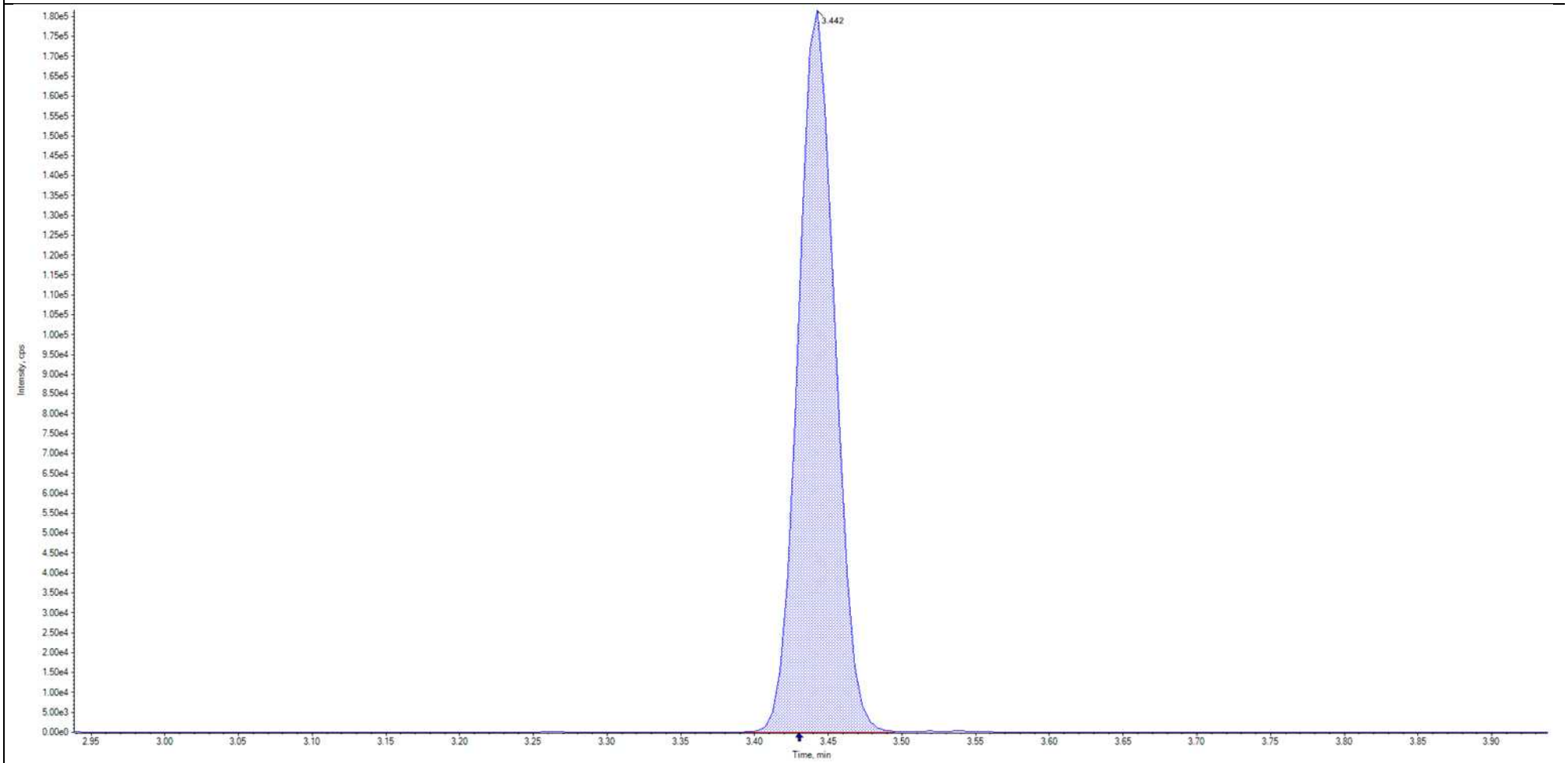


13C8-PFOA
Sample: WG2038851-9,1633FMED

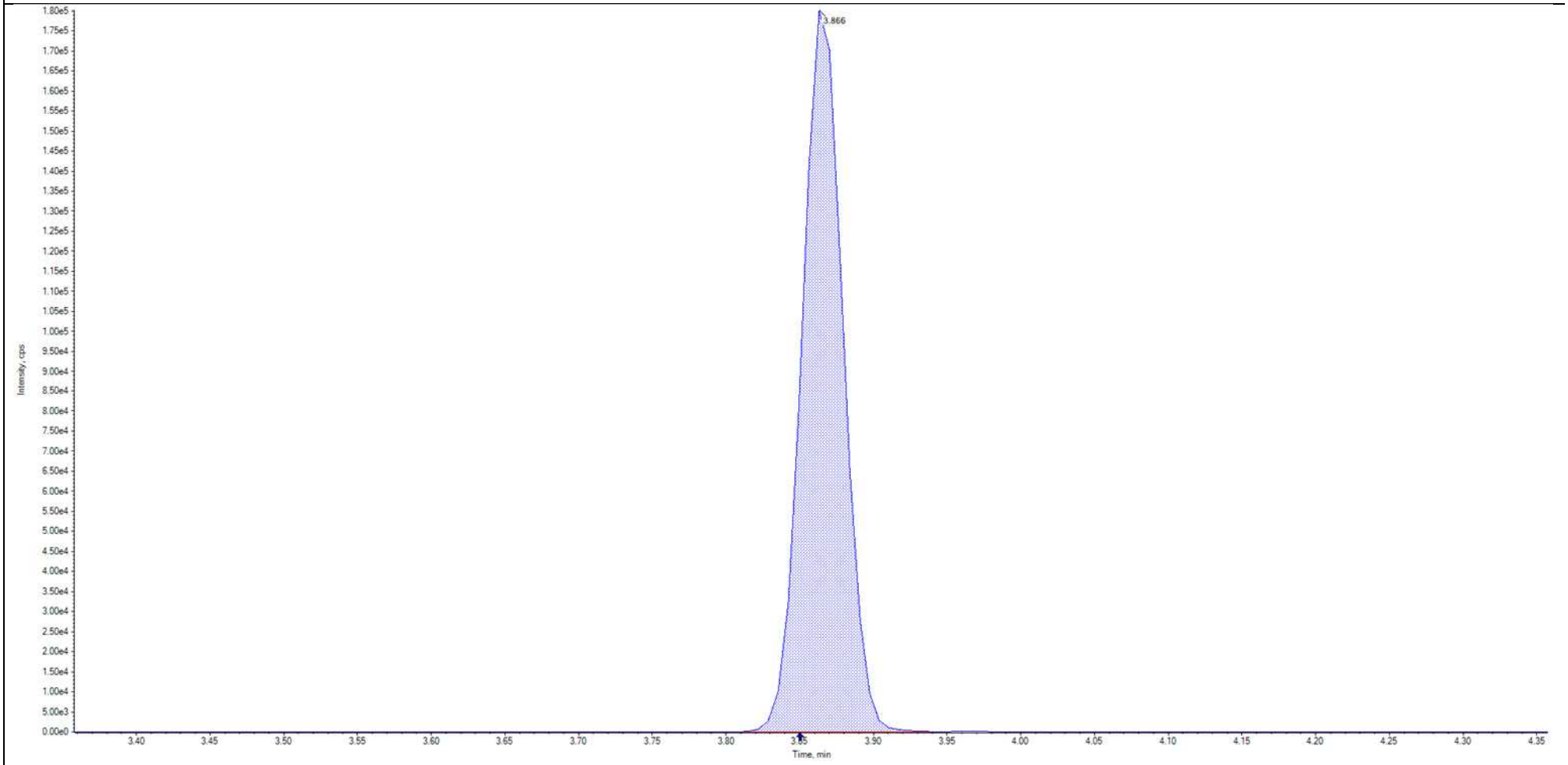


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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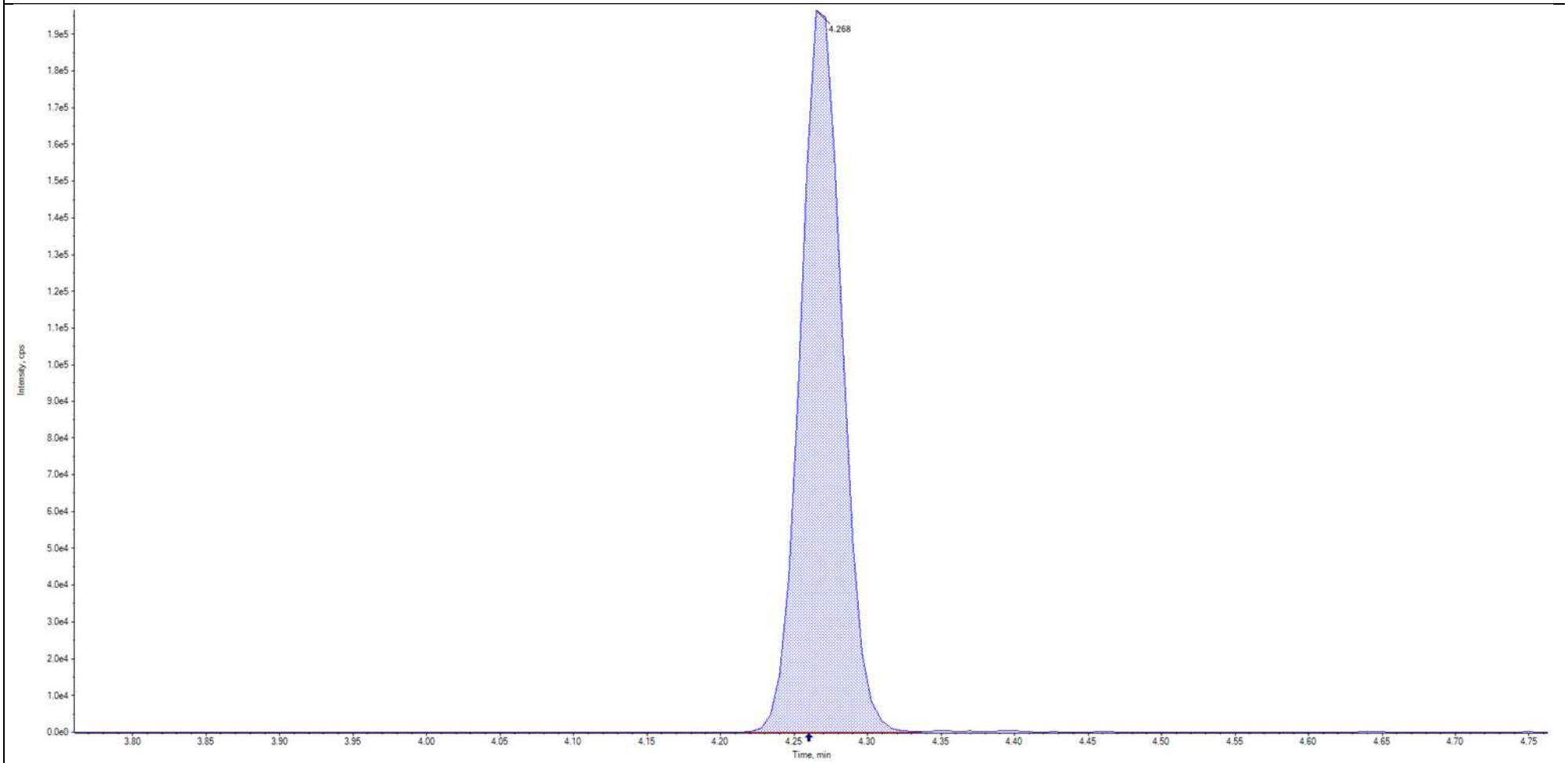
13C9-PFNA
Sample: WG2038851-9,1633FMED



13C6-PFDA
Sample: WG2038851-9,1633FMED

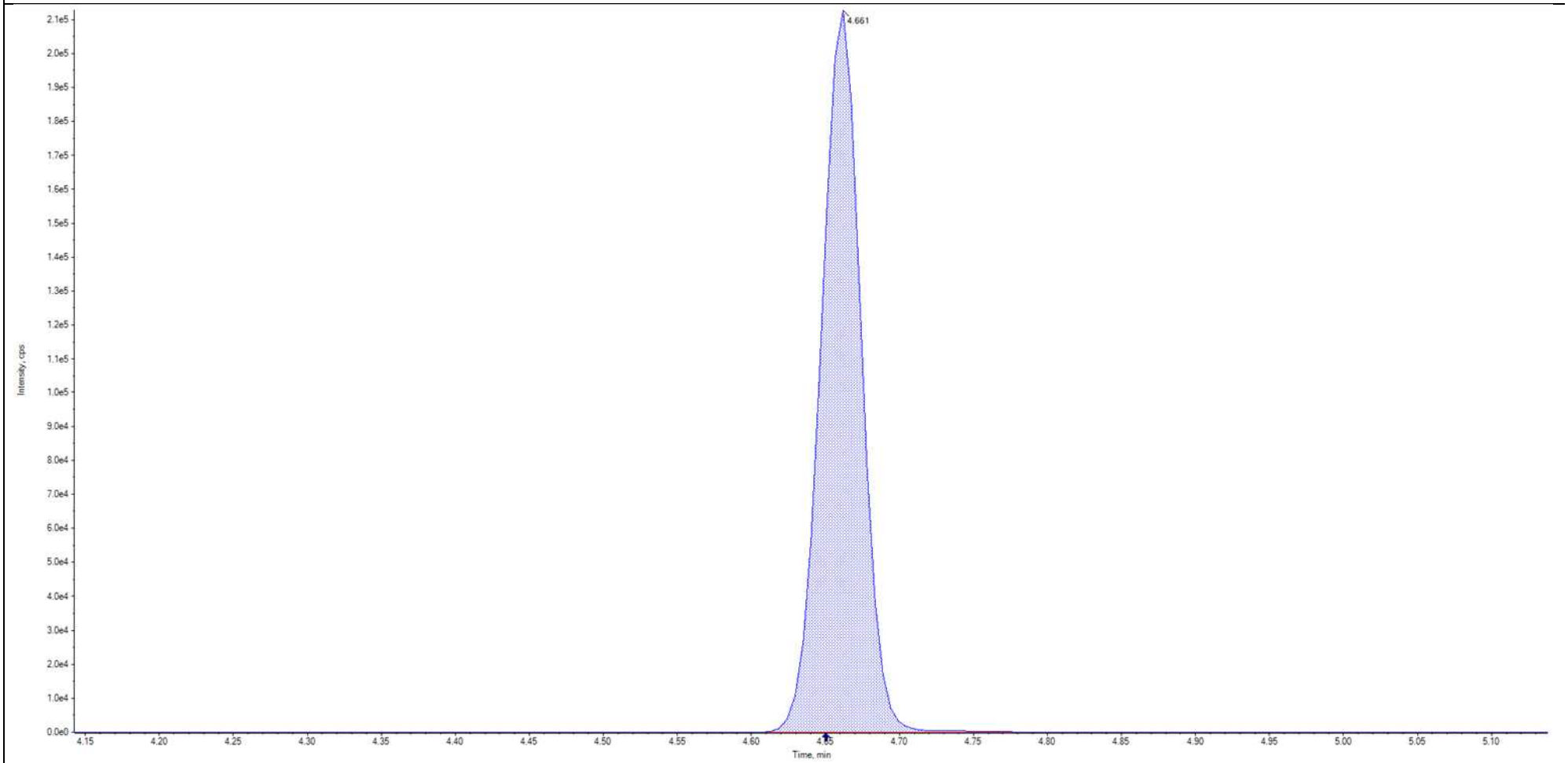


13C7-PFUnA
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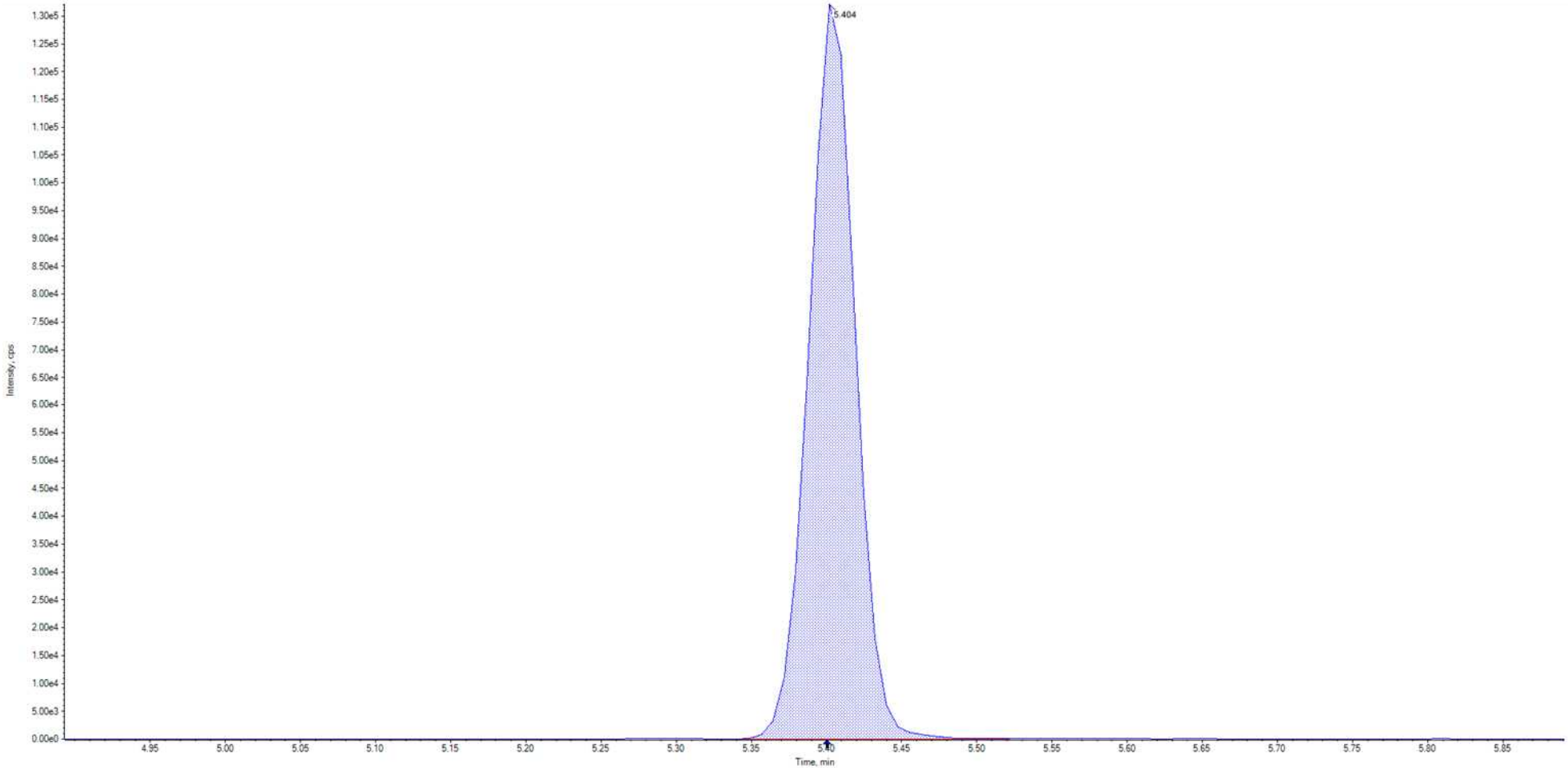


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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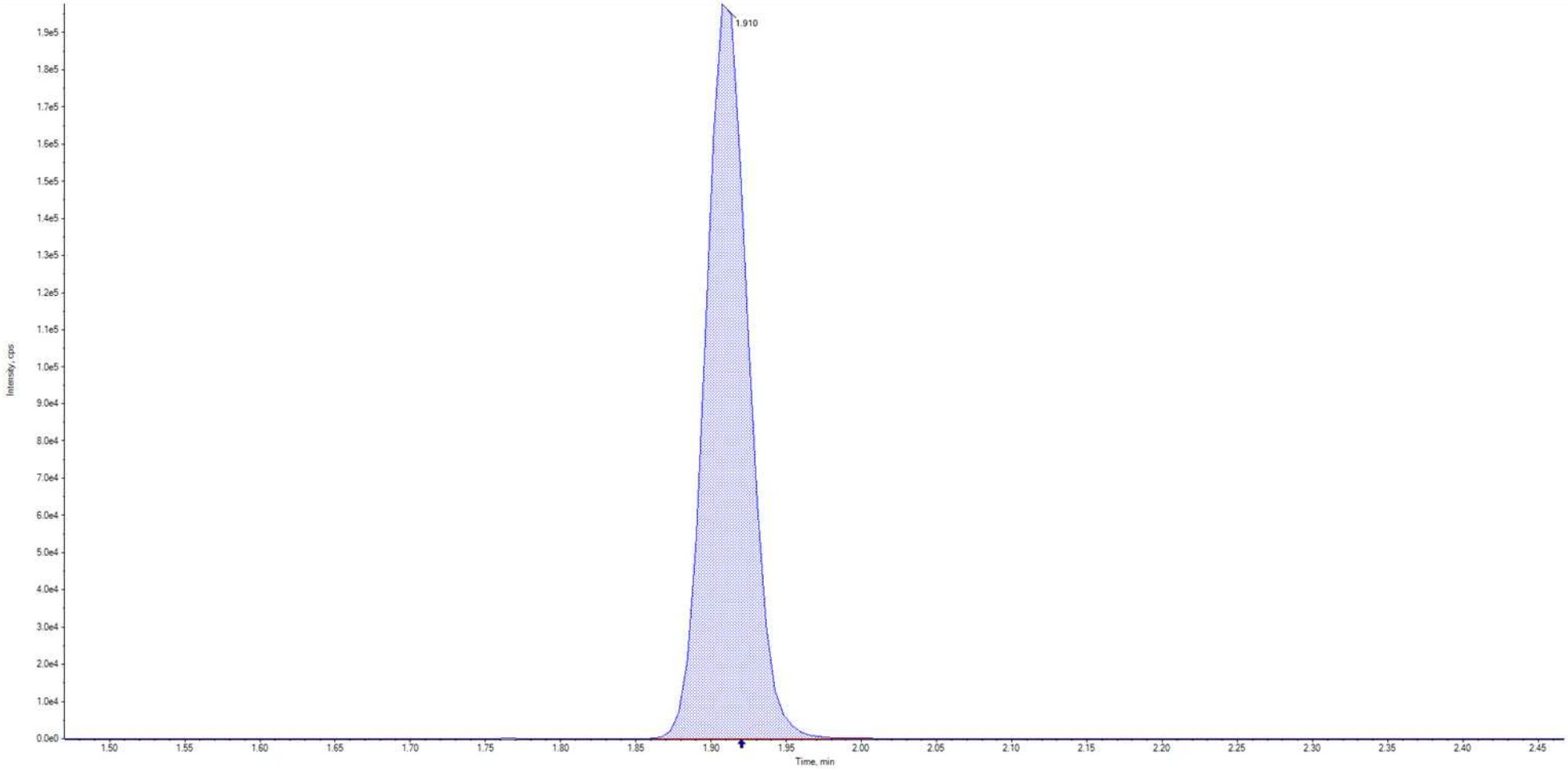
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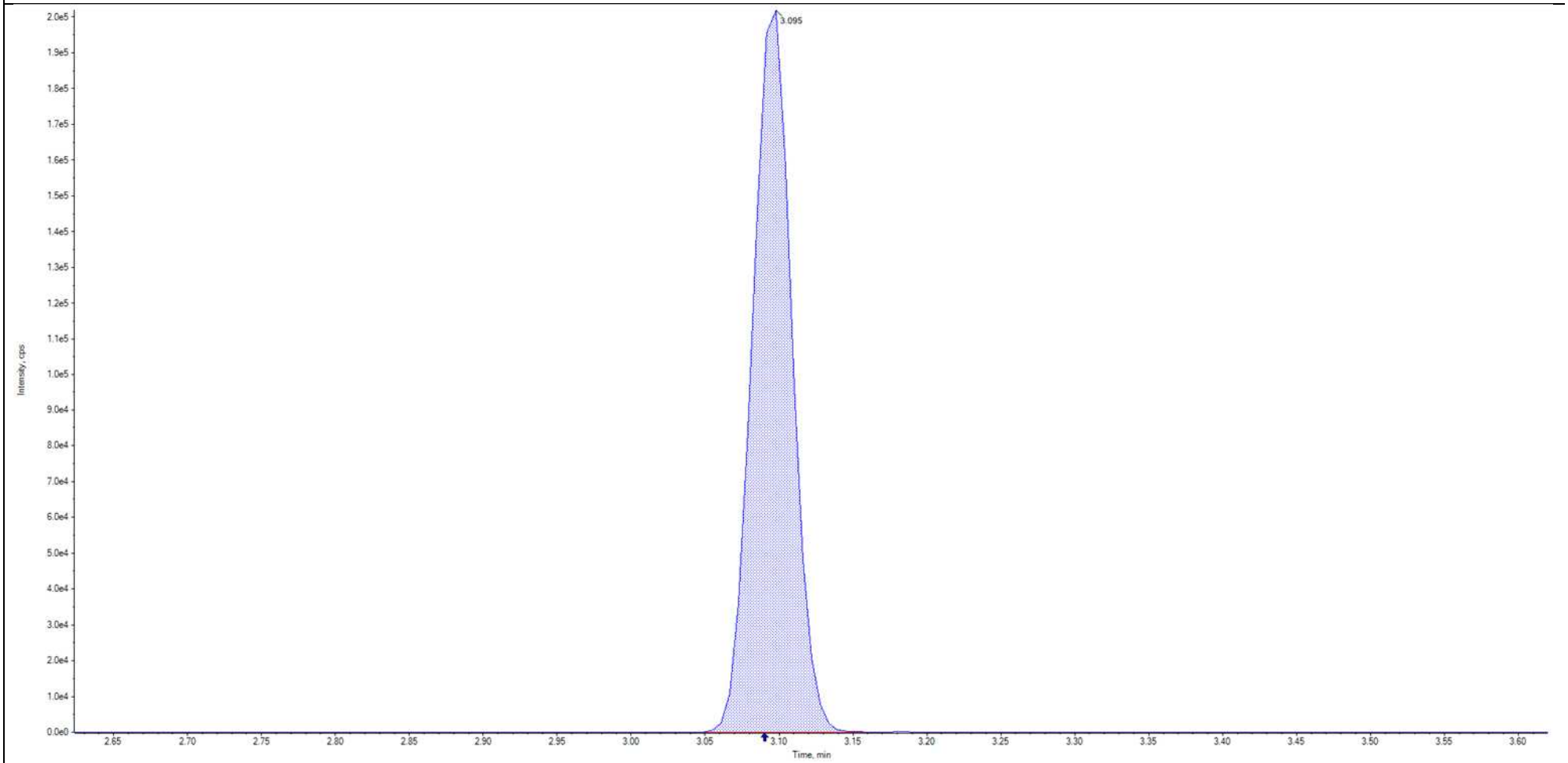
13C2-PFTeDA
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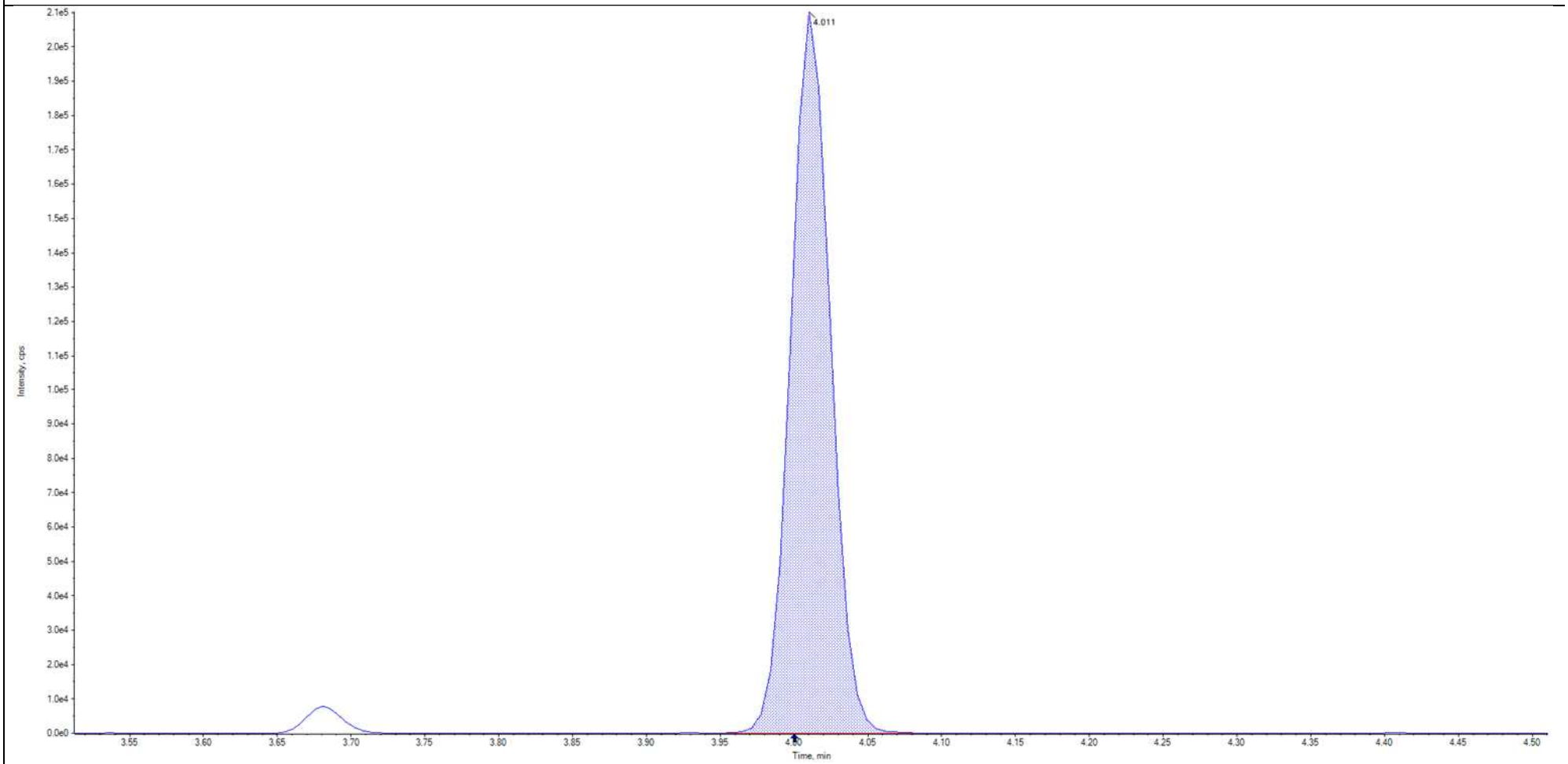
13C3-PFBS
Sample: WG2038851-9,1633FMED



13C3-PFHxS
Sample: WG2038851-9,1633FMED

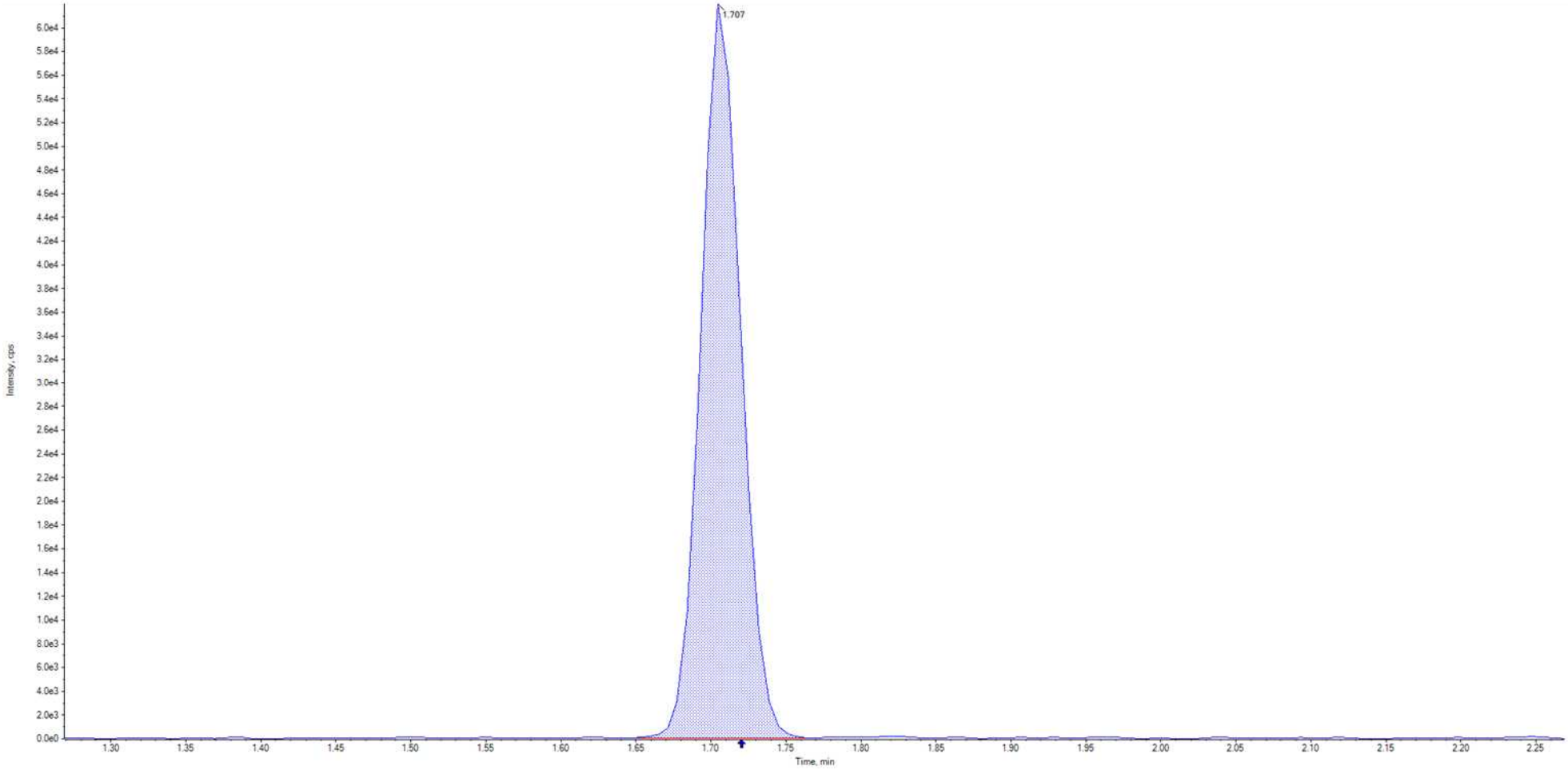


13C8-PFOS
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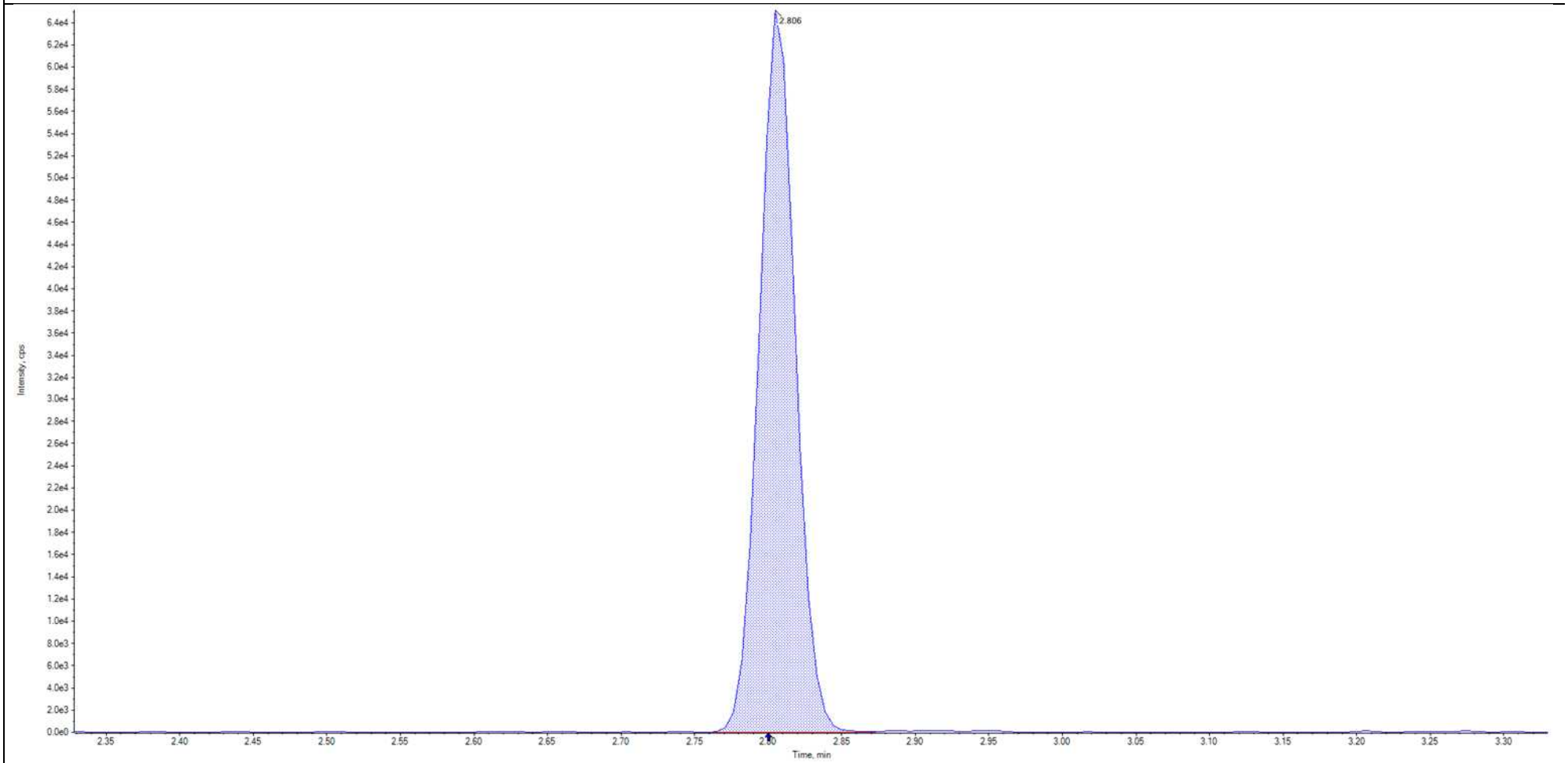


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13C2-4:2FTS
Sample: WG2038851-9,1633FMED

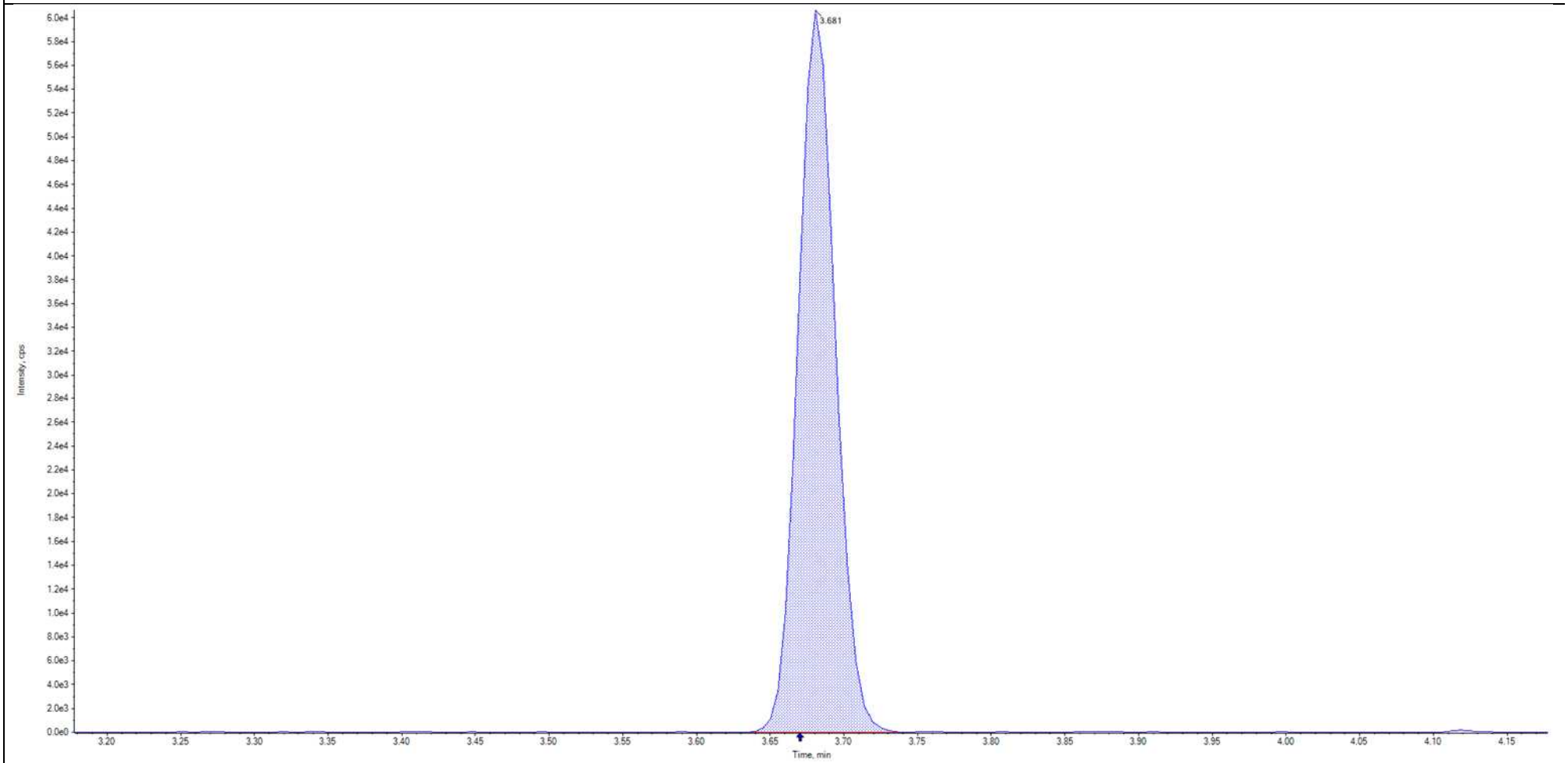


13C2-6:2FTS
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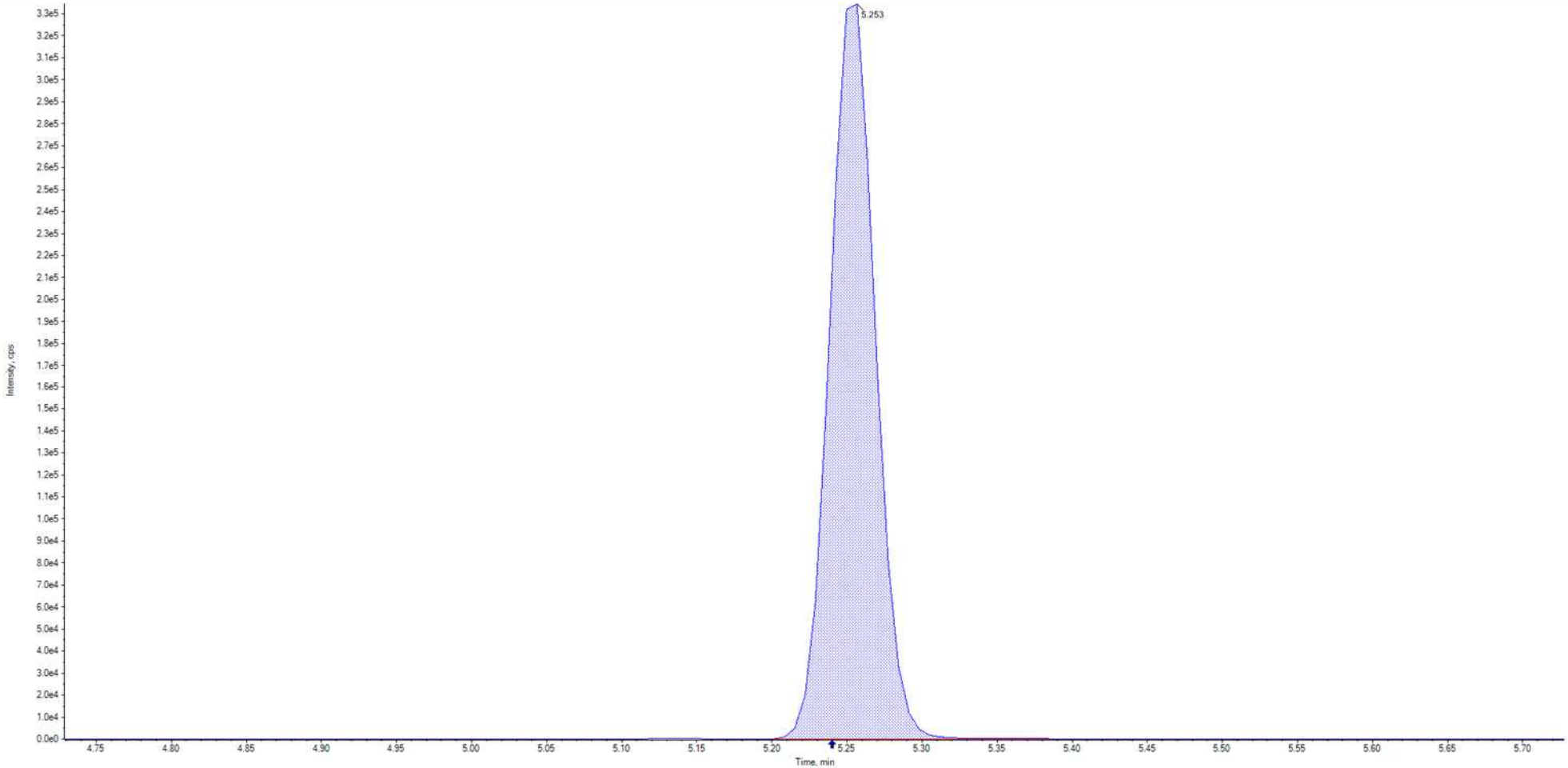


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Alpha Analytical LLC
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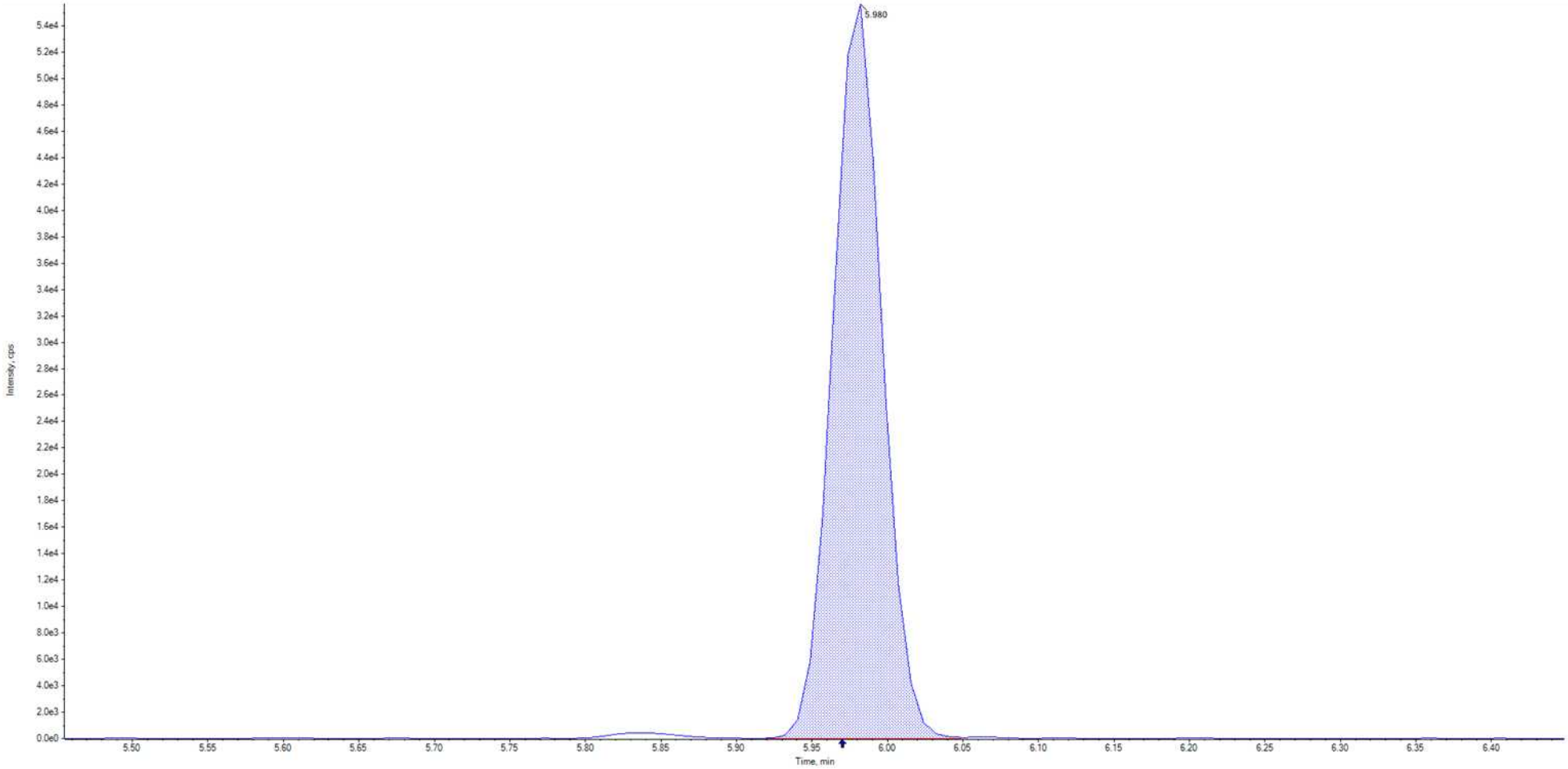
13C2-8:2FTS
Sample: WG2038851-9,1633FMED



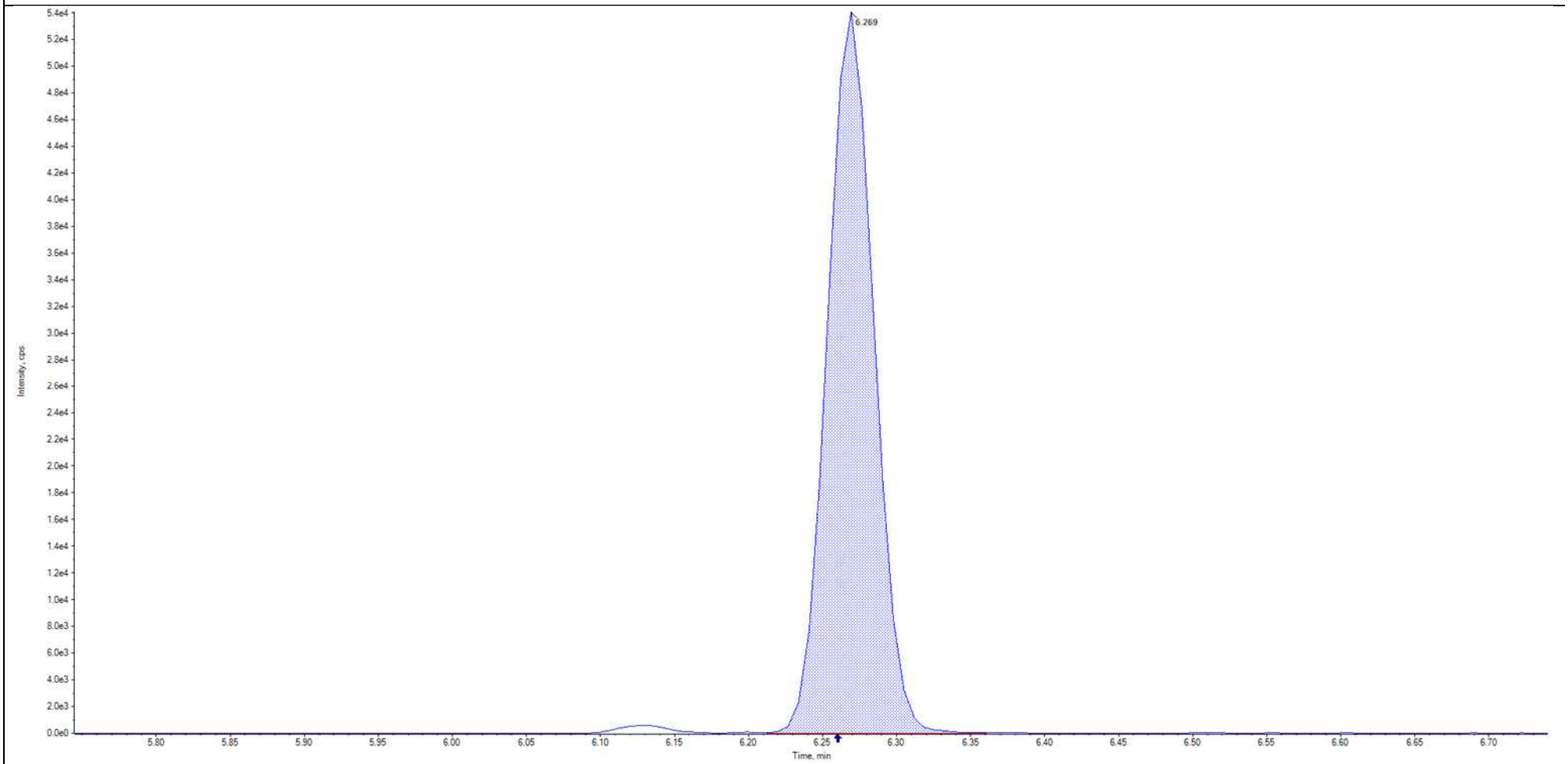
13C8-PFOSA
Sample: WG2038851-9,1633FMED



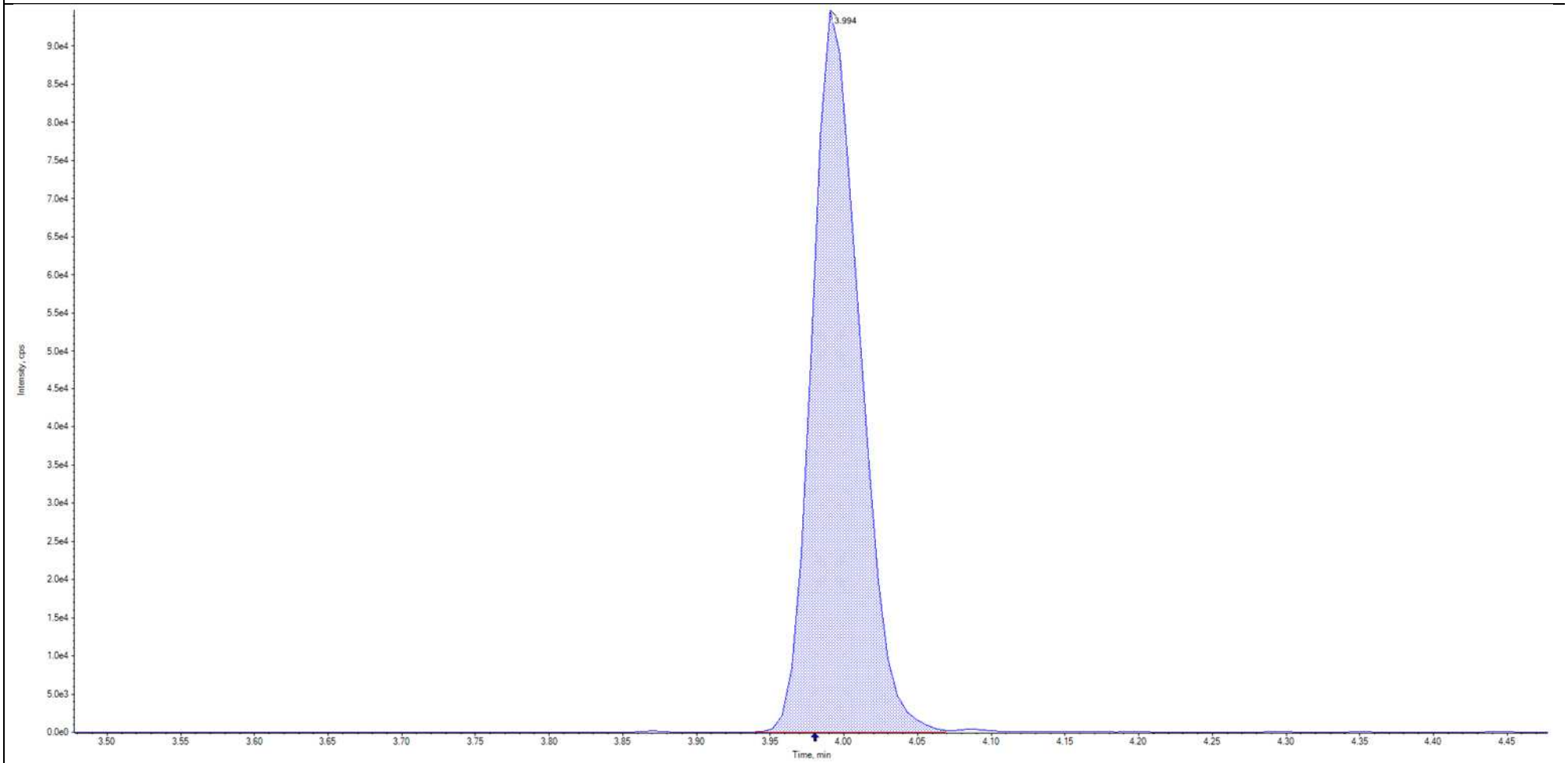
d3-NMeFOSA
Sample: WG2038851-9,1633FMED



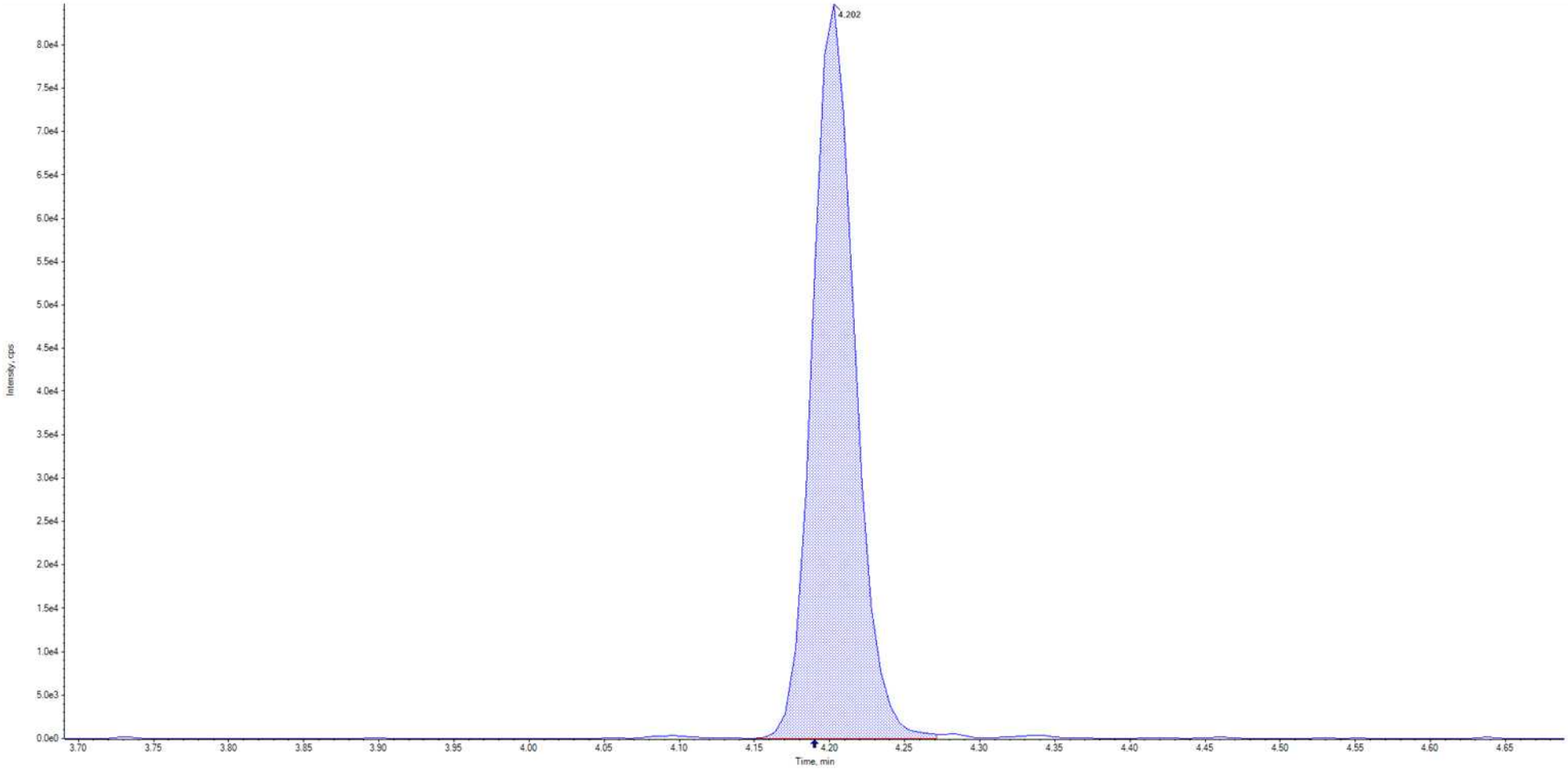
d5-NEtFOSA
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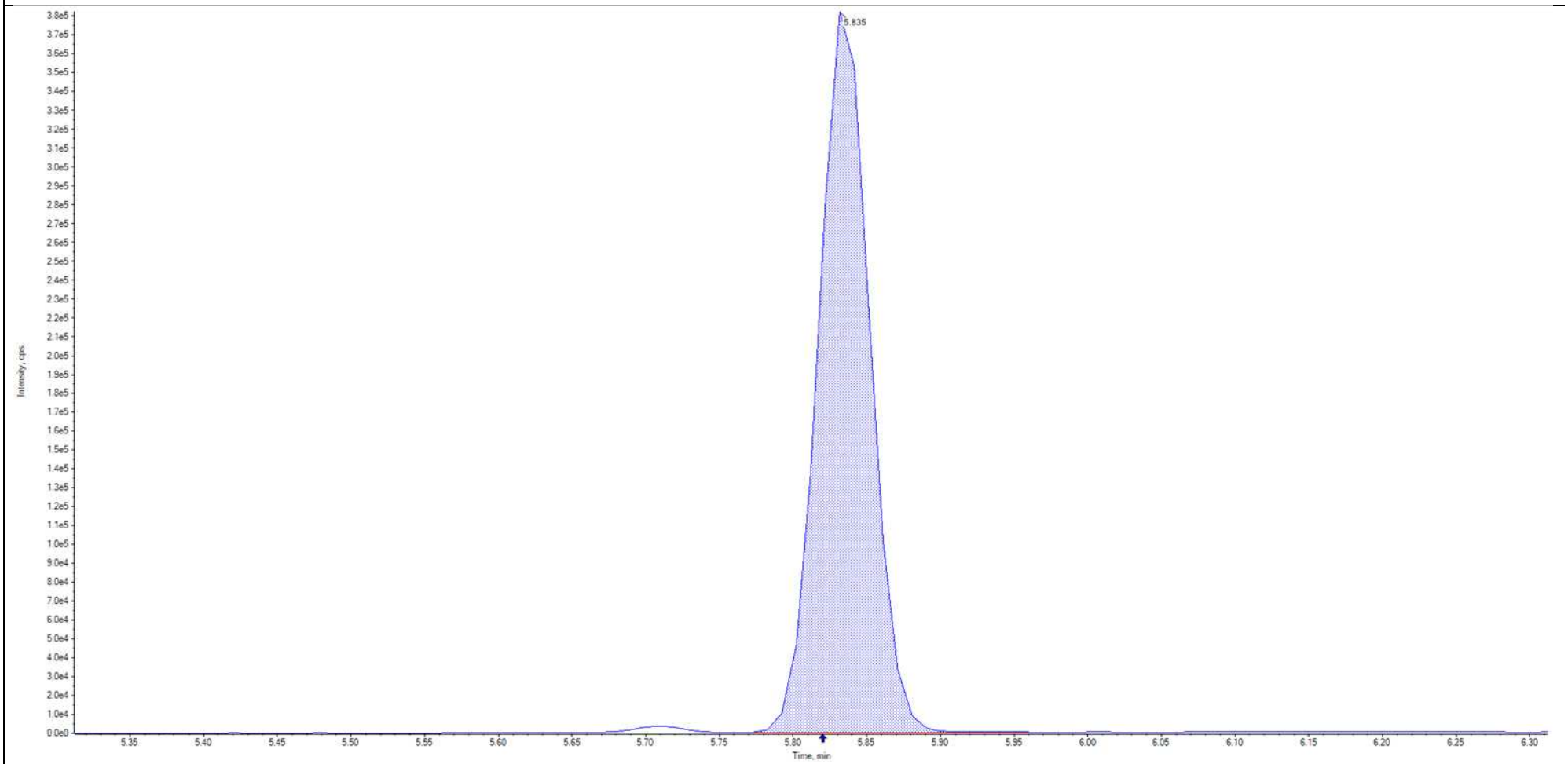
d3-NMeFOSAA
Sample: WG2038851-9,1633FMED



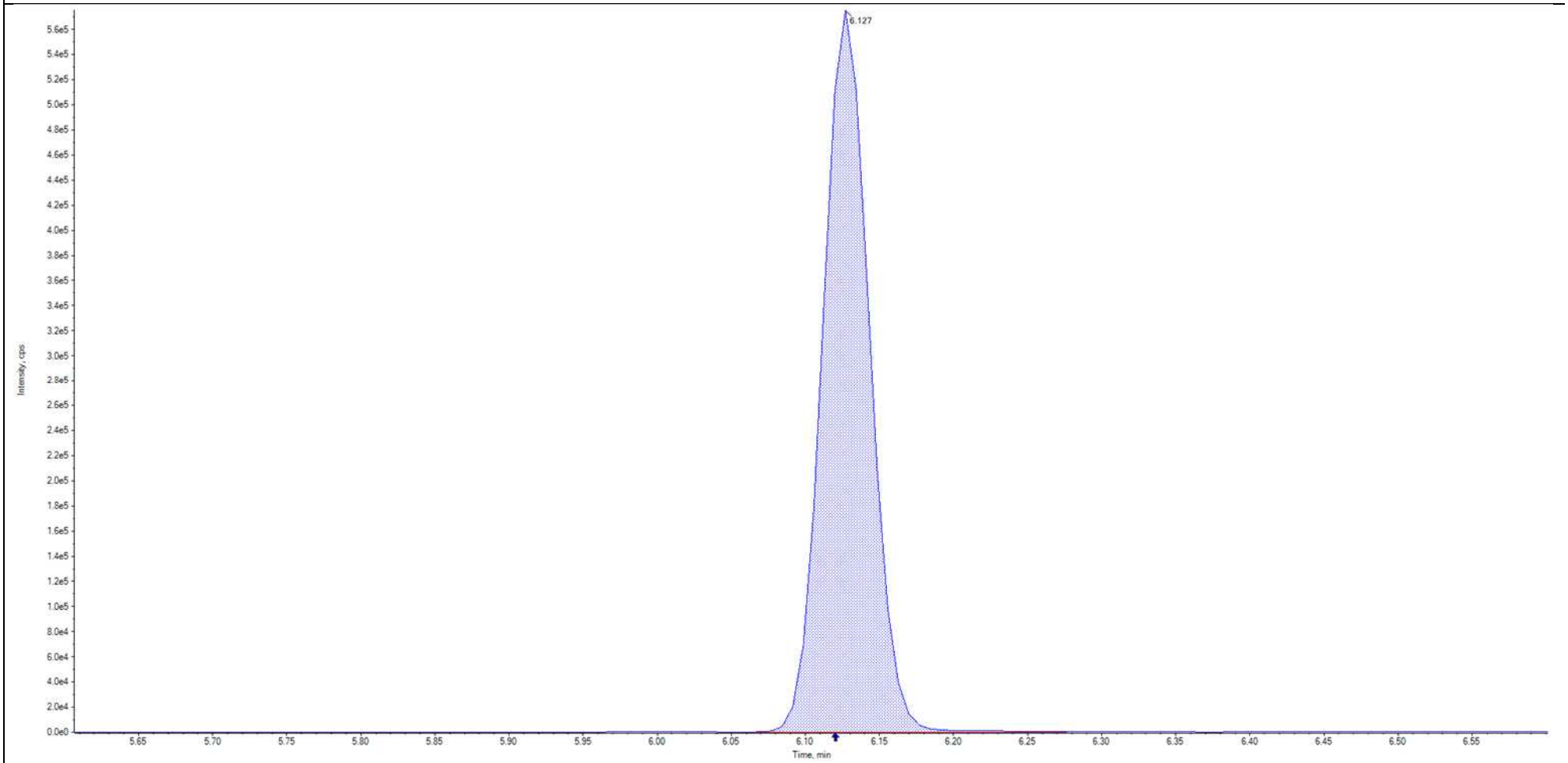
d5-NEtFOSAA
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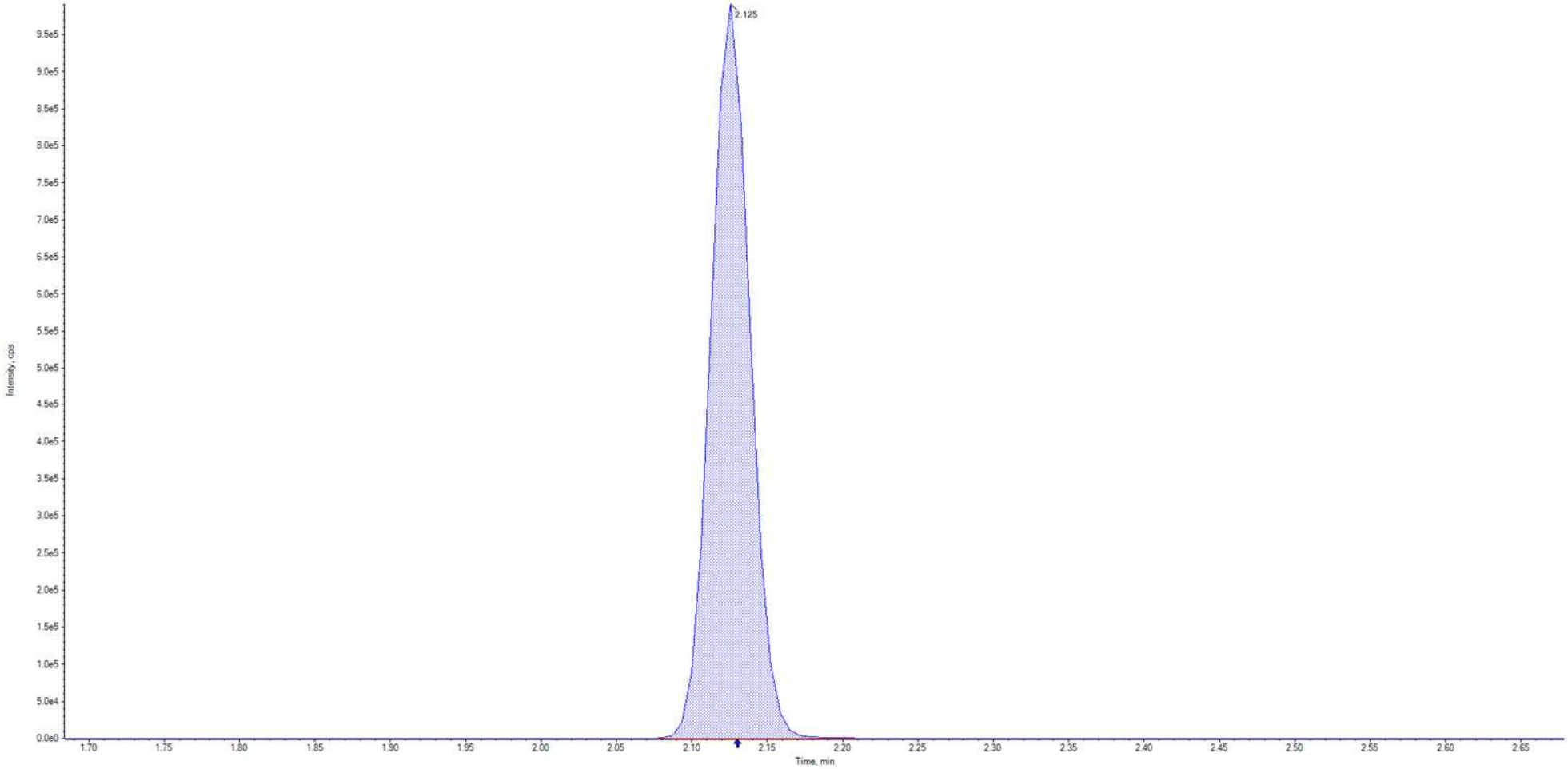
d7-NMeFOSE
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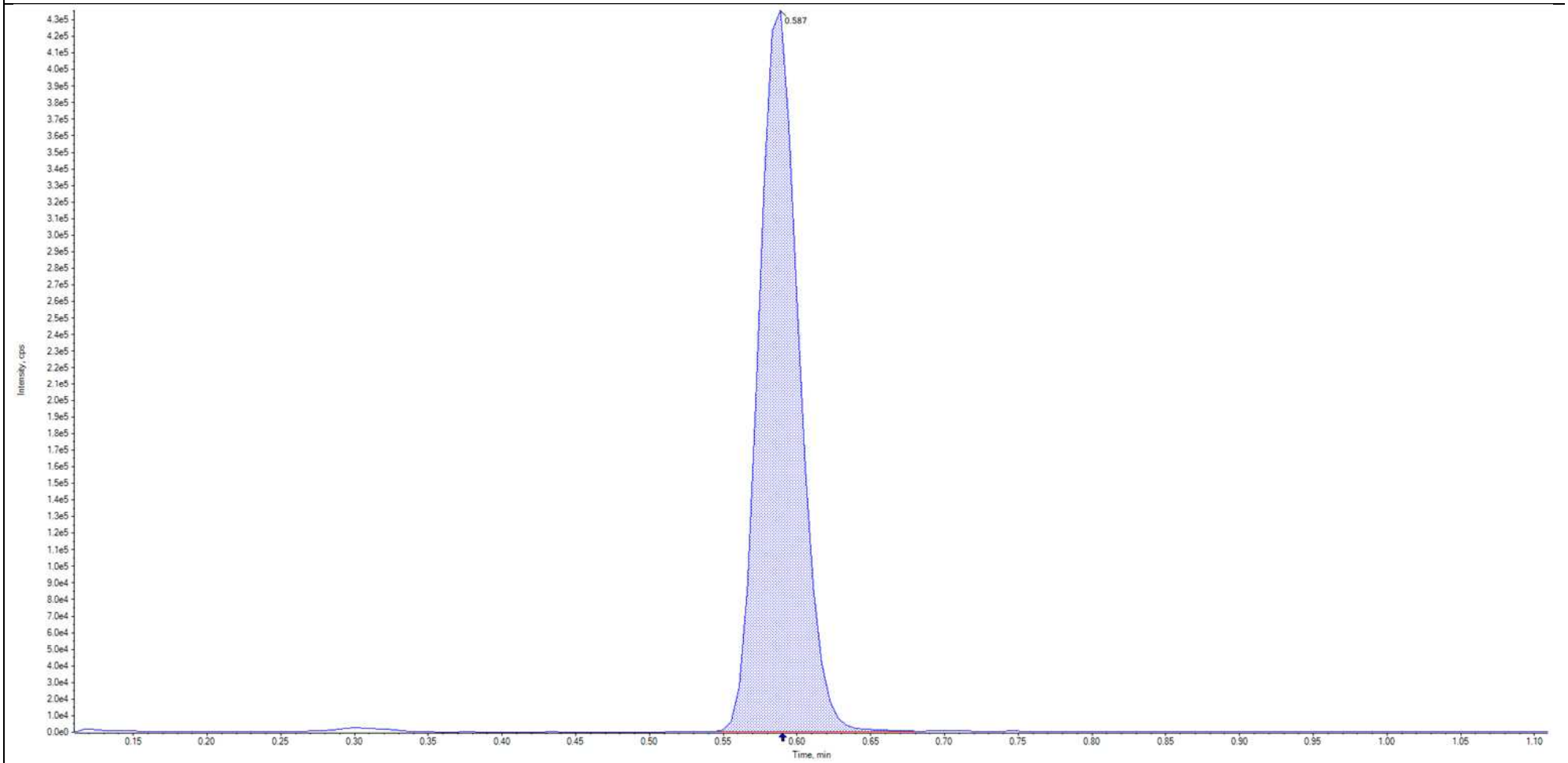
d9-NEtFOSE
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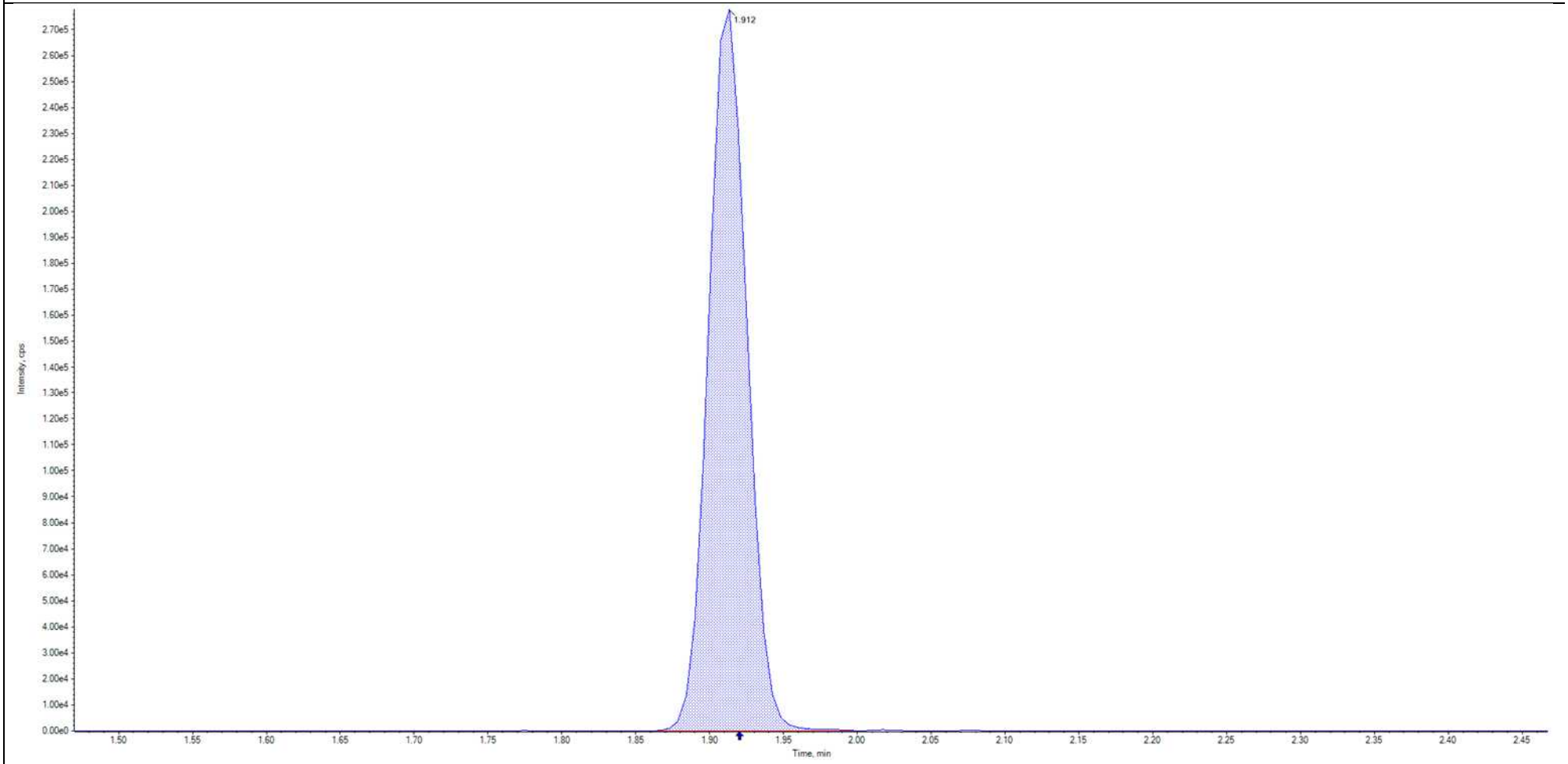
13C3-HFPO-DA
Sample: WG2038851-9,1633FMED



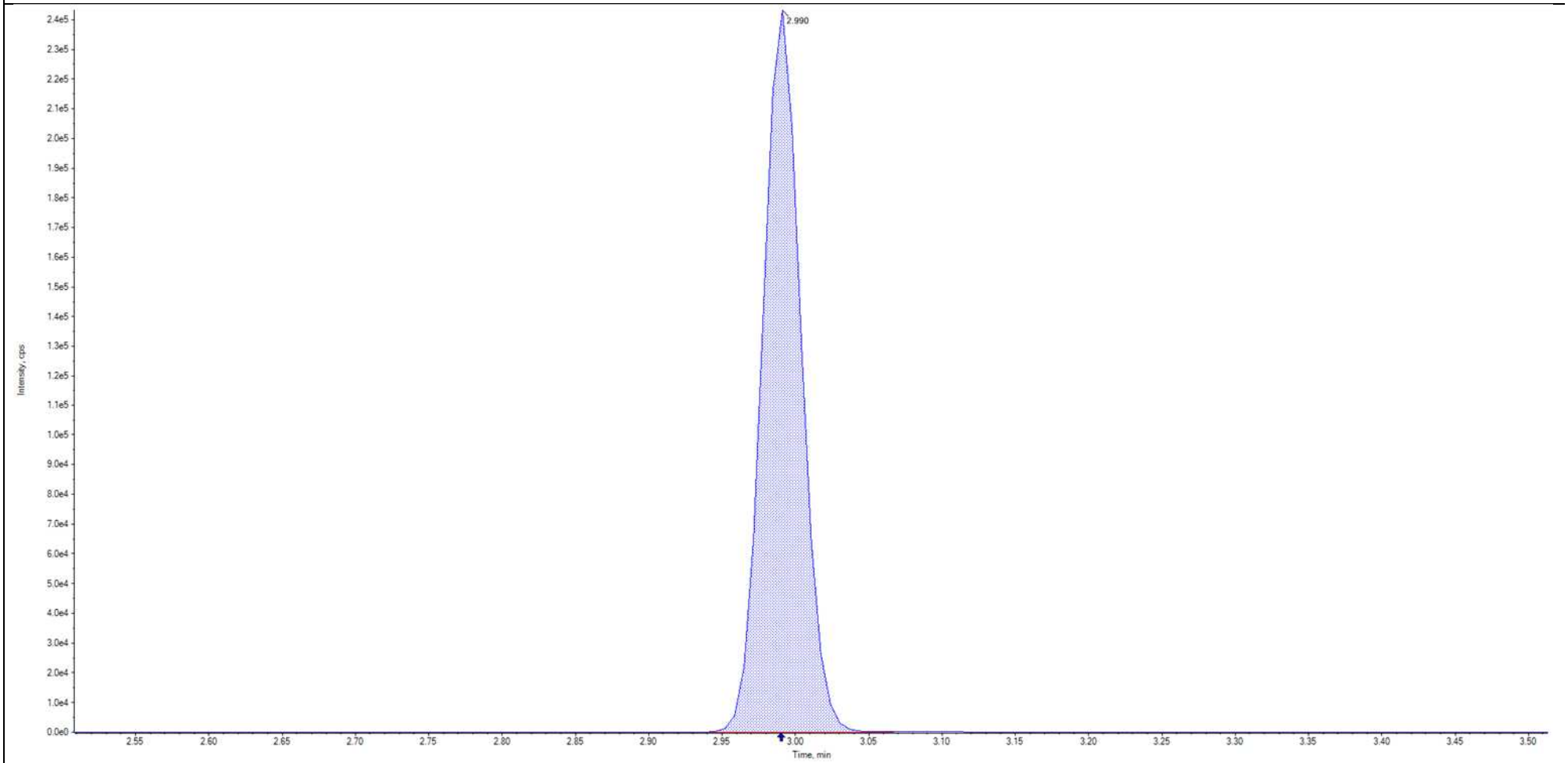
13C3-PFBA
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13C2-PFHxA
Sample: WG2038851-9,1633FMED

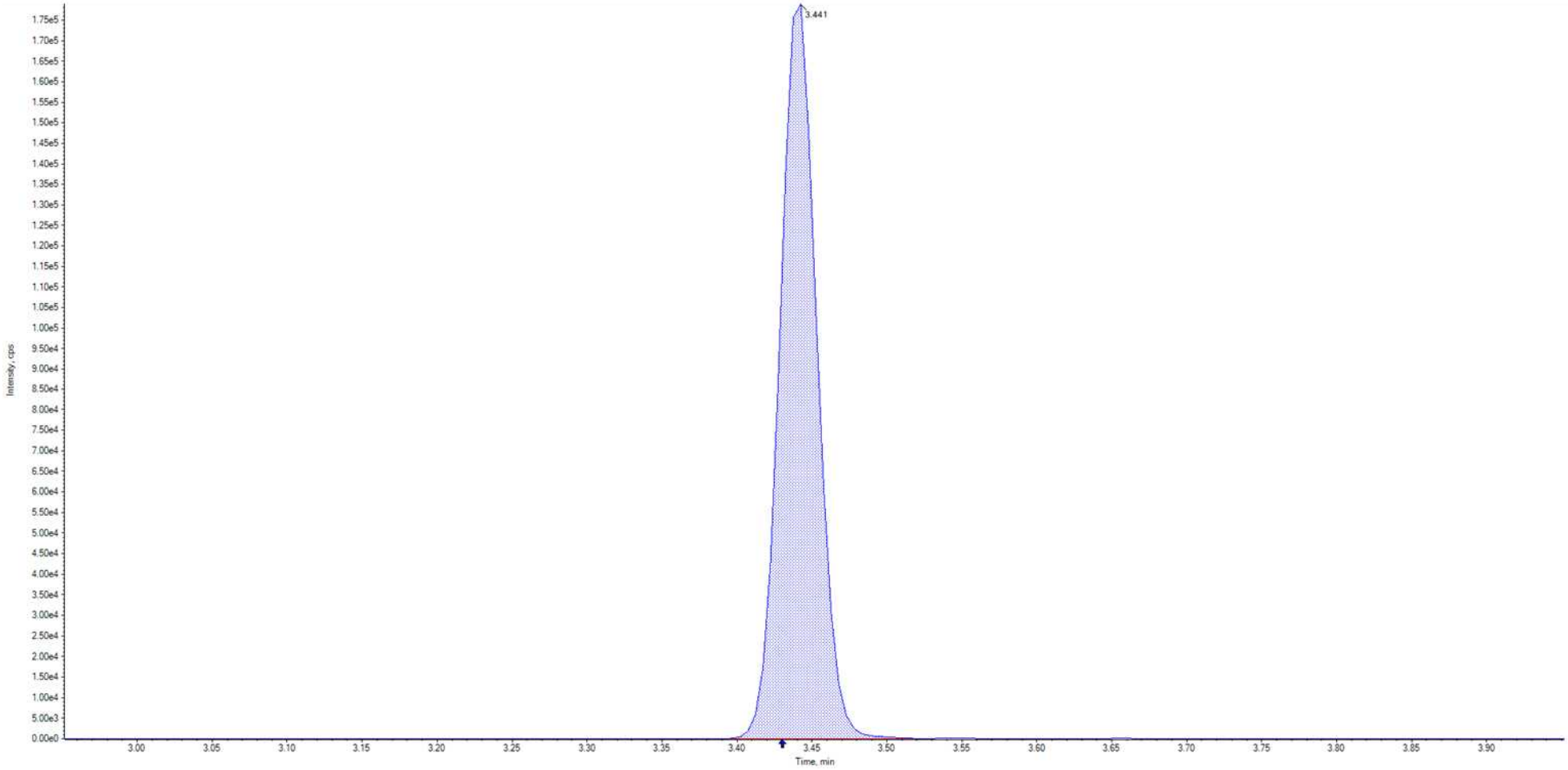


13C4-PFOA
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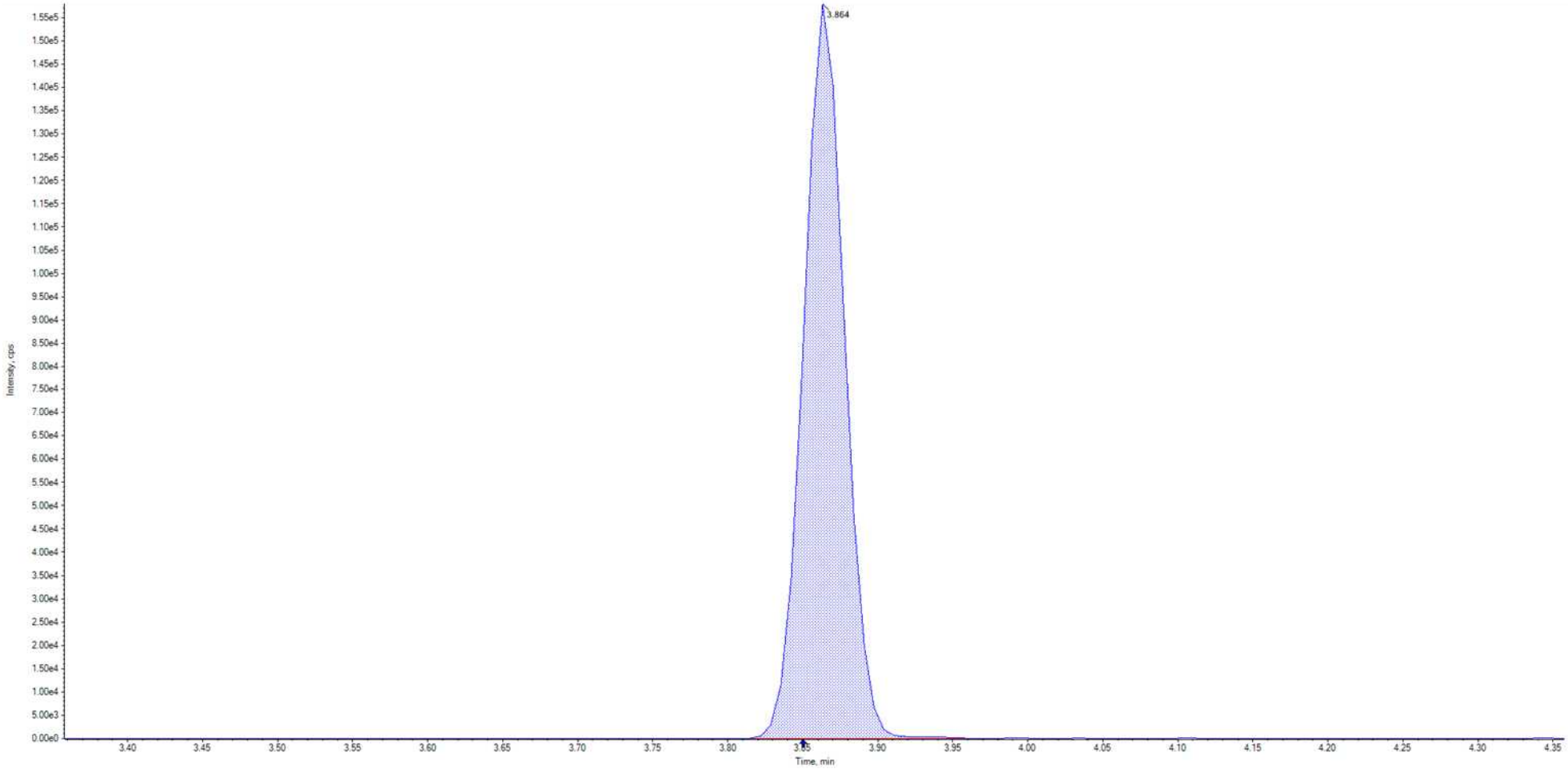


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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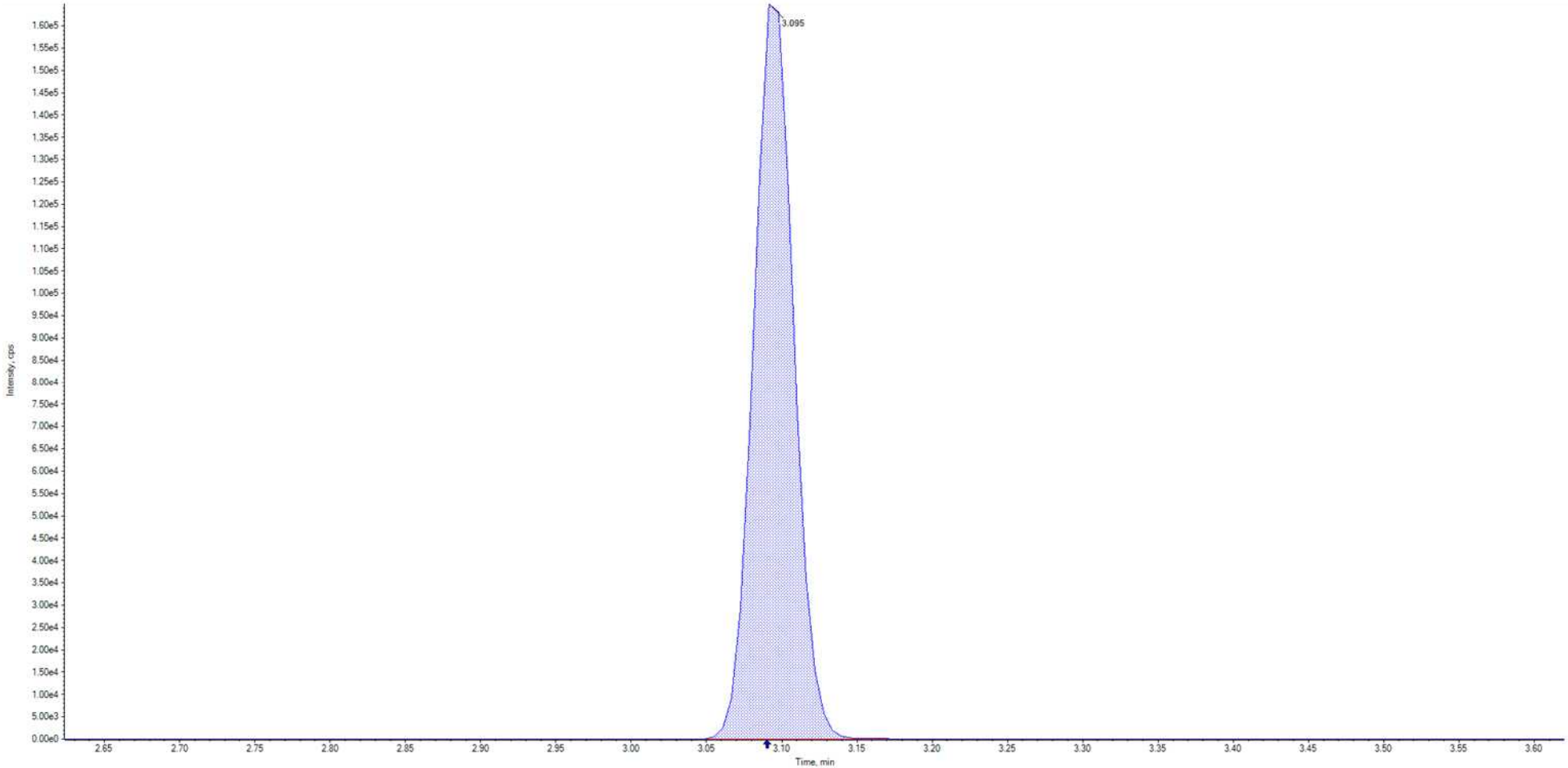
13C5-PFNA
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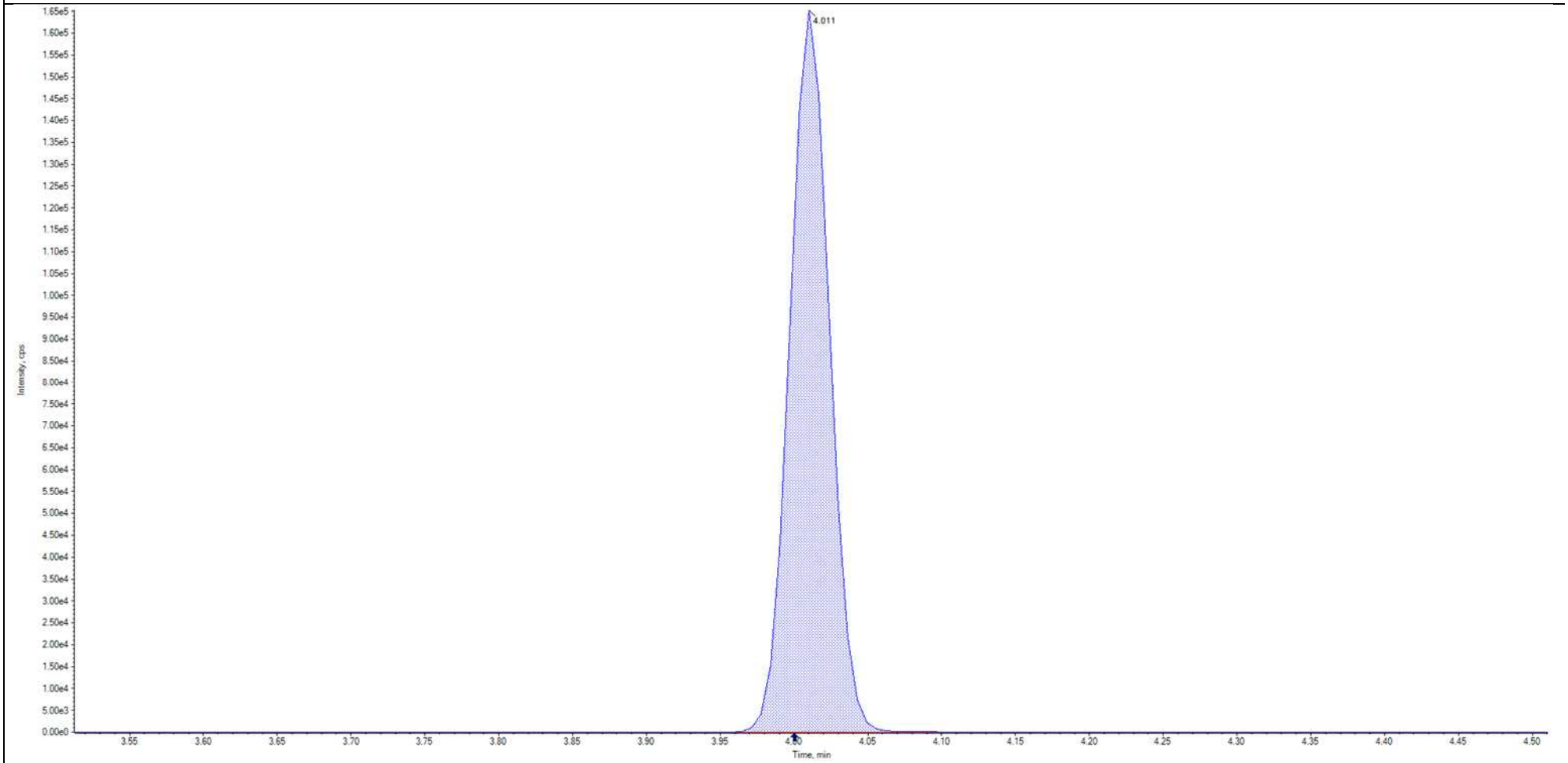
13C2-PFDA
Sample: WG2038851-9,1633FMED



18O2-PFHxS
Sample: WG2038851-9,1633FMED



13C4-PFOS
Sample: WG2038851-9,1633FMED



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Semivolatiles Raw QC Data

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

ID: WG2038443-1R
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Date & Time: 2025-03-11T12:26:29
Description: WG2038851,WG2038443,ICAL22044
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.59	213.0 / 169.0	8824		0.058	N/A	N/A	N/A	N/A
2	PFPeA	2706-90-3	N/A	263.0 / 219.0	N/A		N/A	N/A	N/A	N/A	N/A
3	PFPeA_2	2706-90-3	N/A	263.0 / 68.9	N/A		N/A	N/A	N/A	N/A	N/A
4	PFHxA	307-24-4	N/A	313.0 / 269.0	N/A		N/A	N/A	0.081	N/A	N/A
5	PFHxA_2	307-24-4	N/A	313.0 / 119.0	N/A		N/A	N/A	0.081	N/A	N/A
6	PFHpA	375-85-9	N/A	363.1 / 319.0	N/A		N/A	N/A	0.373	N/A	N/A
7	PFHpA_2	375-85-9	N/A	363.1 / 169.0	N/A		N/A	N/A	0.373	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	N/A	413.1 / 369.1	N/A		N/A	N/A	0.424	N/A	N/A
9	PFOA_2	335-67-1	N/A	413.1 / 169.0	N/A		N/A	N/A	0.424	N/A	N/A
10	PFNA	375-95-1	N/A	462.8 / 418.9	N/A		N/A	N/A	0.493	N/A	N/A
11	PFNA_2	375-95-1	N/A	462.8 / 219.0	N/A		N/A	N/A	0.493	N/A	N/A
12	PFDA	335-76-2	N/A	513.1 / 469.1	N/A		N/A	N/A	0.188	N/A	N/A
13	PFDA_2	335-76-2	N/A	513.1 / 219.0	N/A		N/A	N/A	0.188	N/A	N/A
14	PFUnA	2058-94-8	N/A	563.1 / 519.1	N/A		N/A	N/A	0.146	N/A	N/A
15	PFUnA_2	2058-94-8	N/A	563.1 / 269.0	N/A		N/A	N/A	0.146	N/A	N/A
16	PFDoA	307-55-1	N/A	613.1 / 569.1	N/A		N/A	N/A	0.142	N/A	N/A
17	PFDoA_2	307-55-1	N/A	613.1 / 319.0	N/A		N/A	N/A	0.142	N/A	N/A
18	PFTrDA	72629-94-8	N/A	663.1 / 619.1	N/A		N/A	N/A	0.152	N/A	N/A
19	PFTrDA_2	72629-94-8	N/A	663.1 / 169.0	N/A		N/A	N/A	0.152	N/A	N/A
20	PFTeDA	376-06-7	N/A	713.1 / 669.1	N/A		N/A	N/A	0.154	N/A	N/A
21	PFTeDA_2	376-06-7	N/A	713.1 / 169.0	N/A		N/A	N/A	0.154	N/A	N/A
22	PFBS	375-73-5	N/A	299.1 / 80.1	N/A		N/A	N/A	0.374	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	N/A	299.1 / 99.1	N/A		N/A	N/A	0.374	N/A	N/A
24	PFPeS	2706-91-4	N/A	349.1 / 80.1	N/A		N/A	N/A	0.314	N/A	N/A
25	PFPeS_2	2706-91-4	N/A	349.1 / 99.1	N/A		N/A	N/A	0.314	N/A	N/A
26	PFHxS	355-46-4	N/A	399.1 / 80.1	N/A		N/A	N/A	0.306	N/A	N/A
27	PFHxS_2	355-46-4	N/A	399.1 / 99.1	N/A		N/A	N/A	0.306	N/A	N/A
28	PFHpS	375-92-8	N/A	449.1 / 80.1	N/A		N/A	N/A	0.316	N/A	N/A
29	PFHpS_2	375-92-8	N/A	449.1 / 99.1	N/A		N/A	N/A	0.316	N/A	N/A
30	PFOS	1763-23-1	N/A	499.1 / 80.1	N/A		N/A	N/A	0.244	N/A	N/A
31	PFOS_2	1763-23-1	N/A	499.1 / 99.1	N/A		N/A	N/A	0.244	N/A	N/A
32	PFNS	68259-12-1	N/A	549.1 / 80.1	N/A		N/A	N/A	0.294	N/A	N/A
33	PFNS_2	68259-12-1	N/A	549.1 / 99.1	N/A		N/A	N/A	0.294	N/A	N/A
34	PFDS	335-77-3	N/A	599.1 / 80.1	N/A		N/A	N/A	0.290	N/A	N/A
35	PFDS_2	335-77-3	N/A	599.1 / 99.1	N/A		N/A	N/A	0.290	N/A	N/A
36	PFDoS	79780-39-5	N/A	699.2 / 80.1	N/A		N/A	N/A	0.256	N/A	N/A
37	PFDoS_2	79780-39-5	N/A	699.2 / 99.1	N/A		N/A	N/A	0.256	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	N/A	327.1 / 307.1	N/A		N/A	N/A	0.650	N/A	N/A
39	4:2FTS_2	757124-72-4	N/A	327.1 / 81.1	N/A		N/A	N/A	0.650	N/A	N/A
40	6:2FTS	27619-97-2	N/A	427.2 / 407.2	N/A		N/A	N/A	0.620	N/A	N/A
41	6:2FTS_2	27619-97-2	N/A	427.2 / 81.1	N/A		N/A	N/A	0.620	N/A	N/A
42	8:2FTS	39108-34-4	N/A	527.2 / 507.2	N/A		N/A	N/A	0.676	N/A	N/A
43	8:2FTS_2	39108-34-4	N/A	527.2 / 81.1	N/A		N/A	N/A	0.676	N/A	N/A
44	PFOSA	754-91-6	N/A	498.1 / 78.1	N/A		N/A	N/A	0.026	N/A	N/A
45	PFOSA_2	754-91-6	N/A	498.1 / 478.0	N/A		N/A	N/A	0.026	N/A	N/A
46	NMeFOSA	31506-32-8	N/A	512.2 / 219.0	N/A		N/A	N/A	1.377	N/A	N/A
47	NMeFOSA_2	31506-32-8	N/A	512.2 / 169.0	N/A		N/A	N/A	1.377	N/A	N/A
48	NEtFOSA	4151-50-2	N/A	526.2 / 219.0	N/A		N/A	N/A	1.292	N/A	N/A
49	NEtFOSA_2	4151-50-2	N/A	526.2 / 169.0	N/A		N/A	N/A	1.292	N/A	N/A
50	NMeFOSAA	2355-31-9	N/A	570.2 / 419.1	N/A		N/A	N/A	0.697	N/A	N/A
51	NMeFOSAA_2	2355-31-9	N/A	570.2 / 483.0	N/A		N/A	N/A	0.697	N/A	N/A
52	NEtFOSAA	2991-50-6	N/A	584.2 / 419.1	N/A		N/A	N/A	0.557	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	N/A	584.2 / 526.2	N/A		N/A	N/A	0.557	N/A	N/A
54	NMeFOSE	24448-09-7	N/A	616.1 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
55	NEtFOSE	1691-99-2	N/A	630.0 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
56	HFPO-DA	13252-13-6	N/A	285.0 / 169.0	N/A		N/A	N/A	0.501	N/A	N/A
57	HFPO-DA_2	13252-13-6	N/A	285.0 / 184.9	N/A		N/A	N/A	0.501	N/A	N/A
58	ADONA	919005-14-4	N/A	376.9 / 251.0	N/A		N/A	N/A	0.691	N/A	N/A
59	ADONA_2	919005-14-4	N/A	376.9 / 84.8	N/A		N/A	N/A	0.691	N/A	N/A
60	9Cl-PF3ONS	756426-58-1	N/A	530.8 / 351.1	N/A		N/A	N/A	0.332	N/A	N/A
61	9Cl-PF3ONS_2	756426-58-1	N/A	532.8 / 353.0	N/A		N/A	N/A	0.332	N/A	N/A
62	11Cl-PF3OUdS	763051-92-9	N/A	630.9 / 451.0	N/A		N/A	N/A	0.322	N/A	N/A
63	11Cl-PF3OUdS_2	763051-92-9	N/A	632.9 / 452.9	N/A		N/A	N/A	0.322	N/A	N/A
64	3:3FTCA	356-02-5	N/A	241.1 / 177.1	N/A		N/A	N/A	1.010	N/A	N/A
65	3:3FTCA_2	356-02-5	N/A	241.1 / 117.0	N/A		N/A	N/A	1.010	N/A	N/A
66	5:3FTCA	914637-49-3	N/A	341.1 / 237.1	N/A		N/A	N/A	1.017	N/A	N/A
67	5:3FTCA_2	914637-49-3	N/A	341.1 / 217.0	N/A		N/A	N/A	1.017	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	N/A	441.1 / 316.9	N/A		N/A	N/A	1.343	N/A	N/A
69	7:3FTCA_2	812-70-4	N/A	441.1 / 337.1	N/A		N/A	N/A	1.343	N/A	N/A
70	PFEESA	113507-82-7	N/A	315.1 / 135.0	N/A		N/A	N/A	0.081	N/A	N/A
71	PFEESA_2	113507-82-7	N/A	315.1 / 82.9	N/A		N/A	N/A	0.081	N/A	N/A
72	PFMPA	377-73-1	N/A	229.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
73	PFMBA	863090-89-5	N/A	279.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
74	NFDHA	151772-58-6	N/A	295.0 / 201.0	N/A		N/A	N/A	0.681	N/A	N/A
75	NFDHA_2	151772-58-6	N/A	295.0 / 84.9	N/A		N/A	N/A	0.681	N/A	N/A
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	N/A	333.2 / 312.1	N/A		N/A	N/A	N/A	N/A	N/A
79	13C2-PFOA	Surr	N/A	415.0 / 370.0	N/A		N/A	N/A	N/A	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.58	217.0 / 172.0	1711518		10.553	NA	NA	NA	105.5

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C5-PFPeA	EIS	1.15	268.0 / 223.0	798063		5.274	NA	NA	NA	105.5
13C5-PFHxA	EIS	1.91	318.0 / 273.0	392376		2.758	NA	NA	NA	110.3
13C4-PFHpA	EIS	2.50	367.0 / 322.0	380783		2.775	NA	NA	NA	111.0
13C8-PFOA	EIS	2.99	420.8 / 376.0	694810		2.720	NA	NA	NA	108.8
13C9-PFNA	EIS	3.44	472.0 / 427.0	286808		1.268	NA	NA	NA	101.5
13C6-PFDA	EIS	3.87	519.0 / 474.0	294698		1.261	NA	NA	NA	100.9
13C7-PFUnA	EIS	4.27	570.0 / 525.0	266777		1.034	NA	NA	NA	82.7

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.66	615.1 / 570.0	272576		1.050	NA	NA	NA	84.0
	13C2-PFTeDA	EIS	5.40	715.1 / 670.1	188669		1.121	NA	NA	NA	89.7
	13C3-PFBS	EIS	1.91	302.1 / 80.1	390821		2.683	NA	NA	NA	115.1
	13C3-PFHxS	EIS	3.10	402.1 / 80.1	342472		2.645	NA	NA	NA	111.6
	13C8-PFOS	EIS	4.01	507.1 / 80.1	318664		2.212	NA	NA	NA	92.2
	13C2-4:2FTS	EIS	1.70	329.1 / 81.1	102346		4.764	NA	NA	NA	101.6
	13C2-6:2FTS	EIS	2.81	429.2 / 81.1	102663		5.550	NA	NA	NA	116.6
	13C2-8:2FTS	EIS	3.68	529.2 / 81.1	83261		4.799	NA	NA	NA	100.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C8-PFOSA	EIS	5.25	506.1 / 78.1	525091		2.296	NA	NA	NA	91.8
	d3-NMeFOSA	EIS	5.98	515.2 / 219.0	67929		1.645	NA	NA	NA	65.8
	d5-NEtFOSA	EIS	6.27	531.2 / 219.0	63965		1.703	NA	NA	NA	68.1
	d3-NMeFOSAA	EIS	3.99	573.2 / 419.1	102127		3.629	NA	NA	NA	72.6
	d5-NEtFOSAA	EIS	4.20	589.3 / 419.1	101094		4.406	NA	NA	NA	88.1
	d7-NMeFOSE	EIS	5.83	623.2 / 58.9	647819		21.805	NA	NA	NA	87.2
	d9-NEtFOSE	EIS	6.13	639.2 / 58.9	883176		22.160	NA	NA	NA	88.6

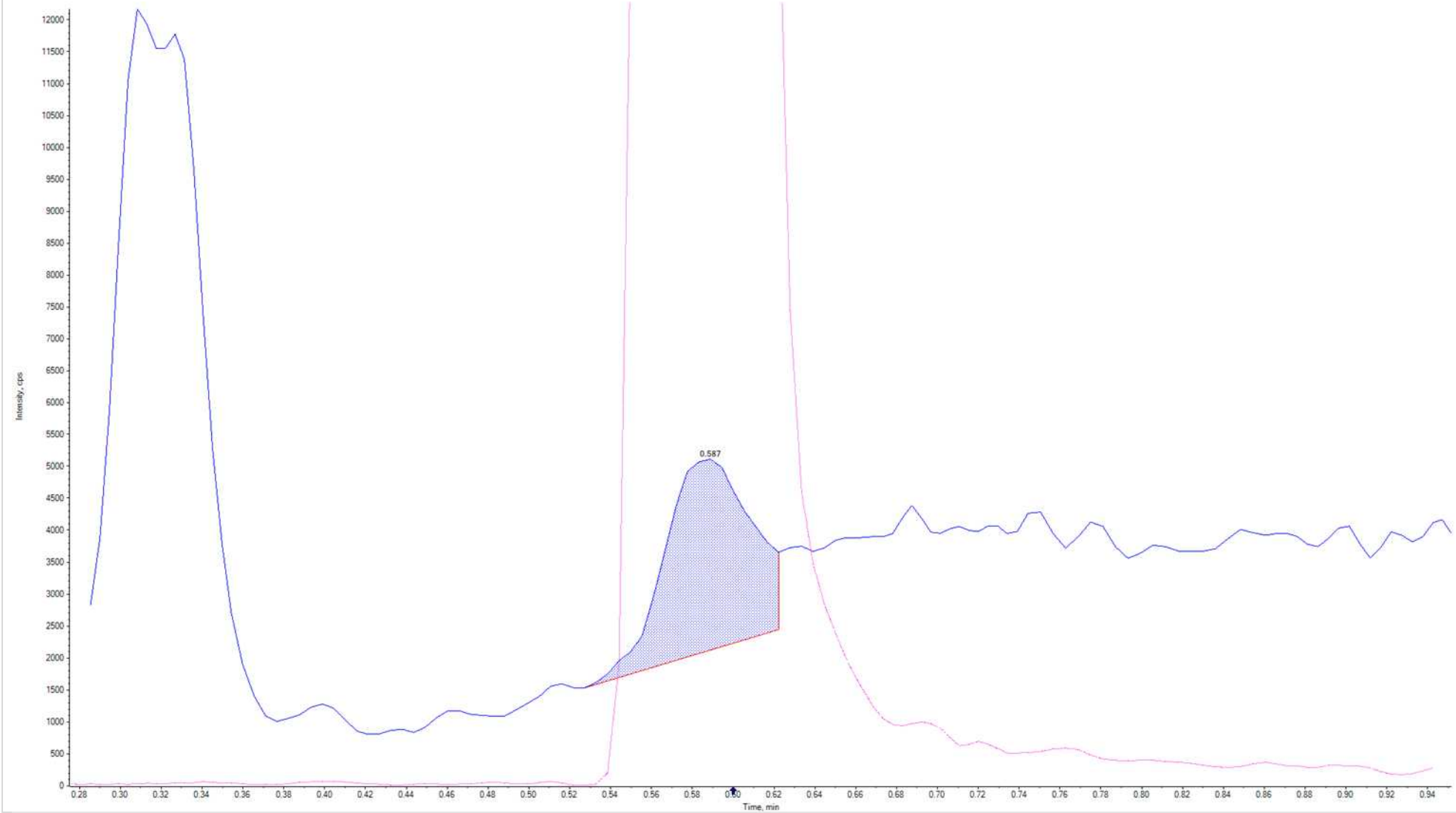
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	13C3-HFPO-DA	EIS	2.12	287.0 / 169.0	1623387		10.788	NA	NA	NA	107.9
	13C3-PFBA	NIS	0.58	216.0 / 172.0	717633		4.951	NA	NA	NA	99.0
	13C2-PFHxA	NIS	1.91	315.0 / 270.0	418914		2.585	NA	NA	NA	103.4
	13C4-PFOA	NIS	2.99	417.0 / 372.0	388252		2.701	NA	NA	NA	108.0
	13C5-PFNA	NIS	3.44	468.0 / 423.0	283264		1.375	NA	NA	NA	110.0
	13C2-PFDA	NIS	3.86	515.1 / 470.1	272824		1.283	NA	NA	NA	102.6
	18O2-PFHxS	NIS	3.10	403.1 / 84.1	272282		2.313	NA	NA	NA	97.6
	13C4-PFOS	NIS	4.01	503.1 / 80.1	289850		2.411	NA	NA	NA	100.5

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

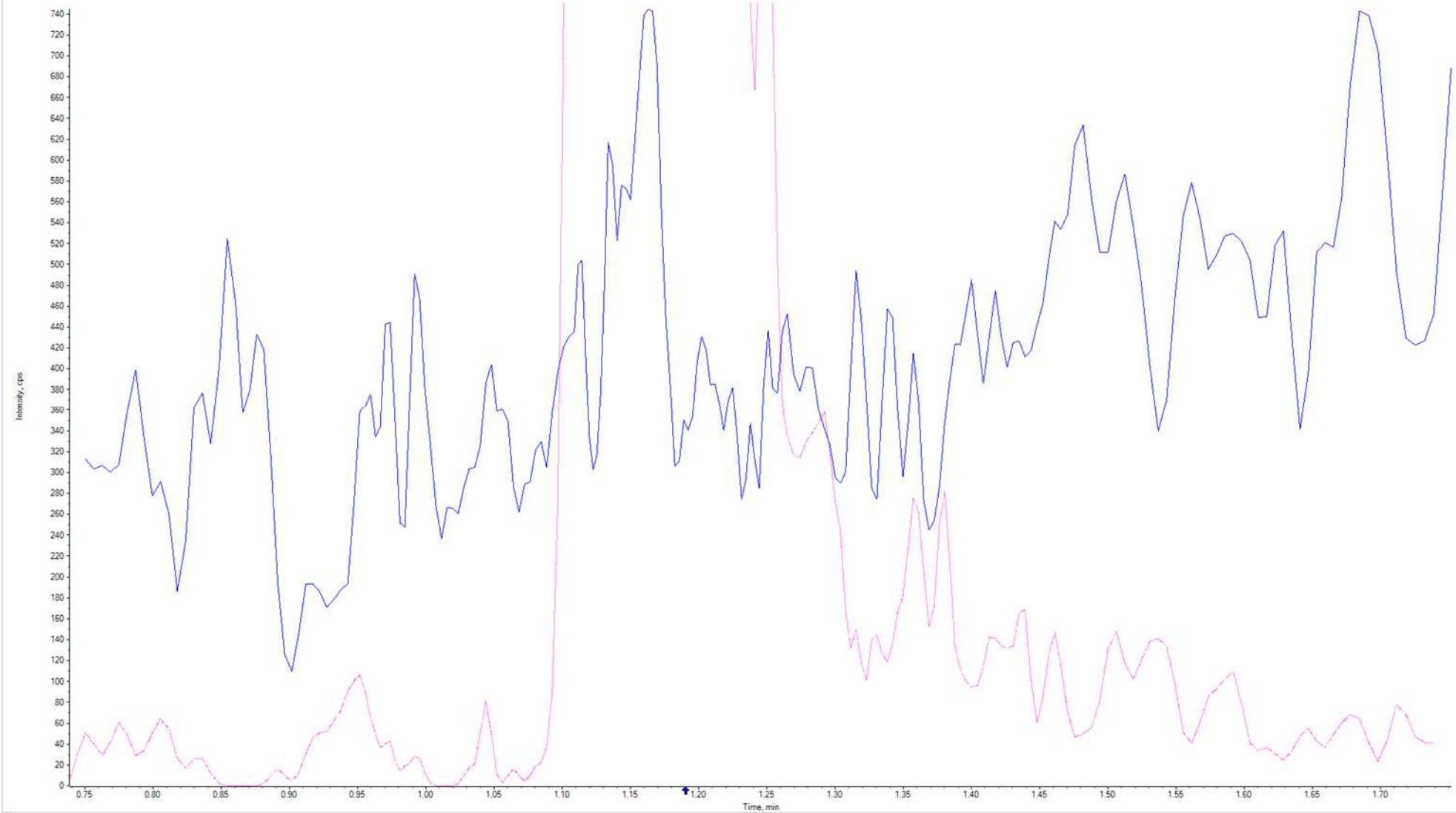
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PFBA
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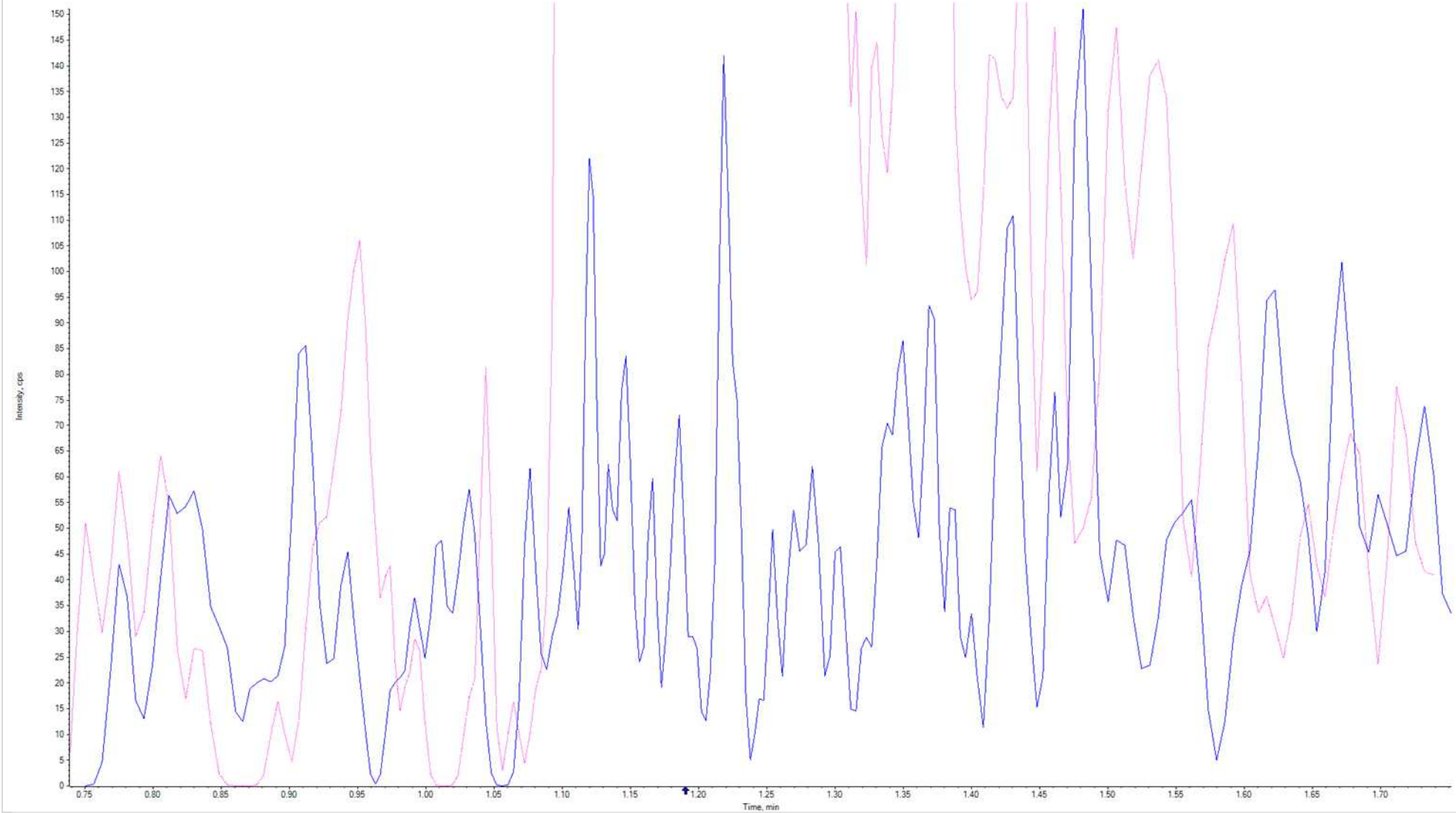
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PFPeA
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



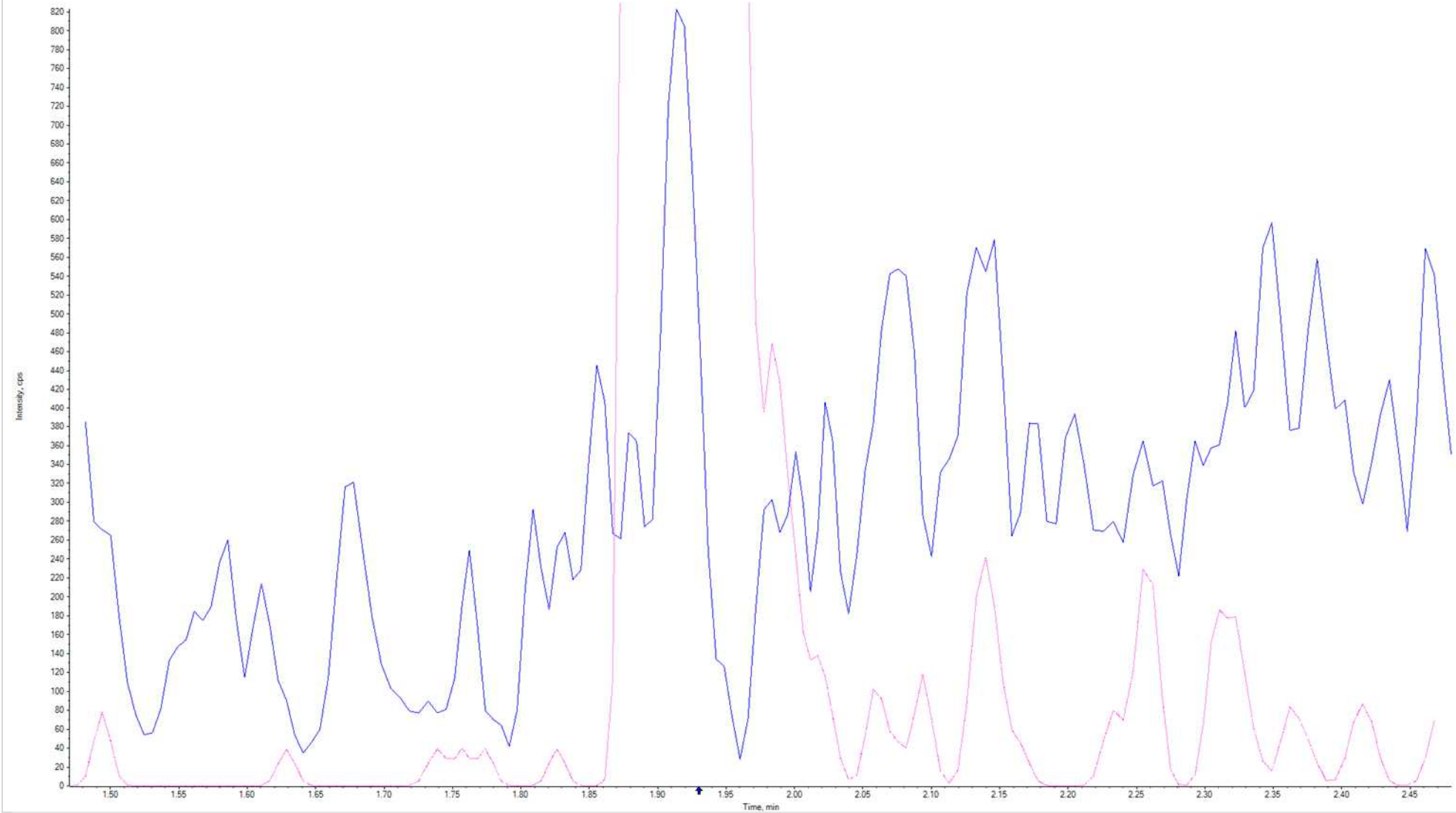
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PFPeA_2
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



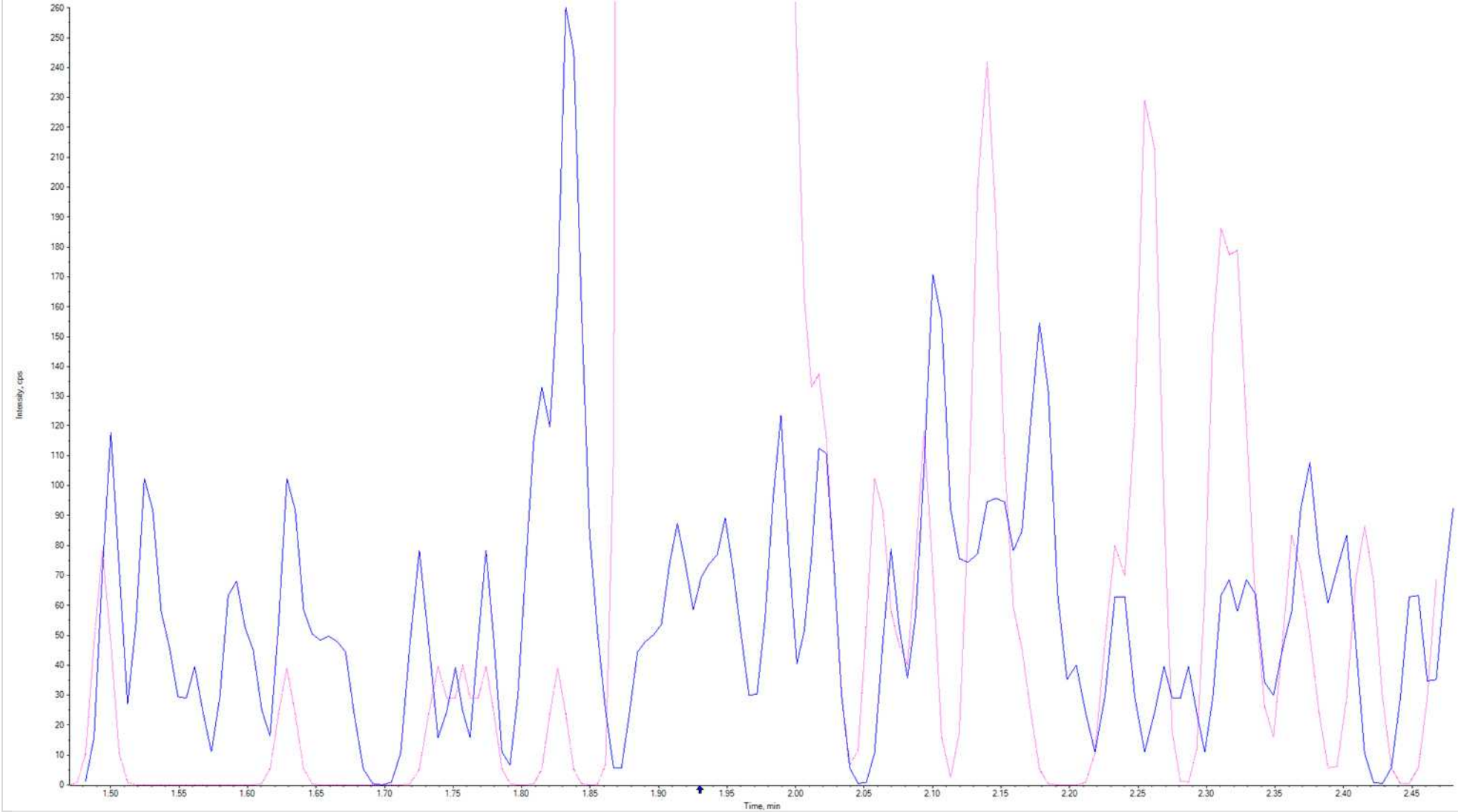
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PFHxA
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



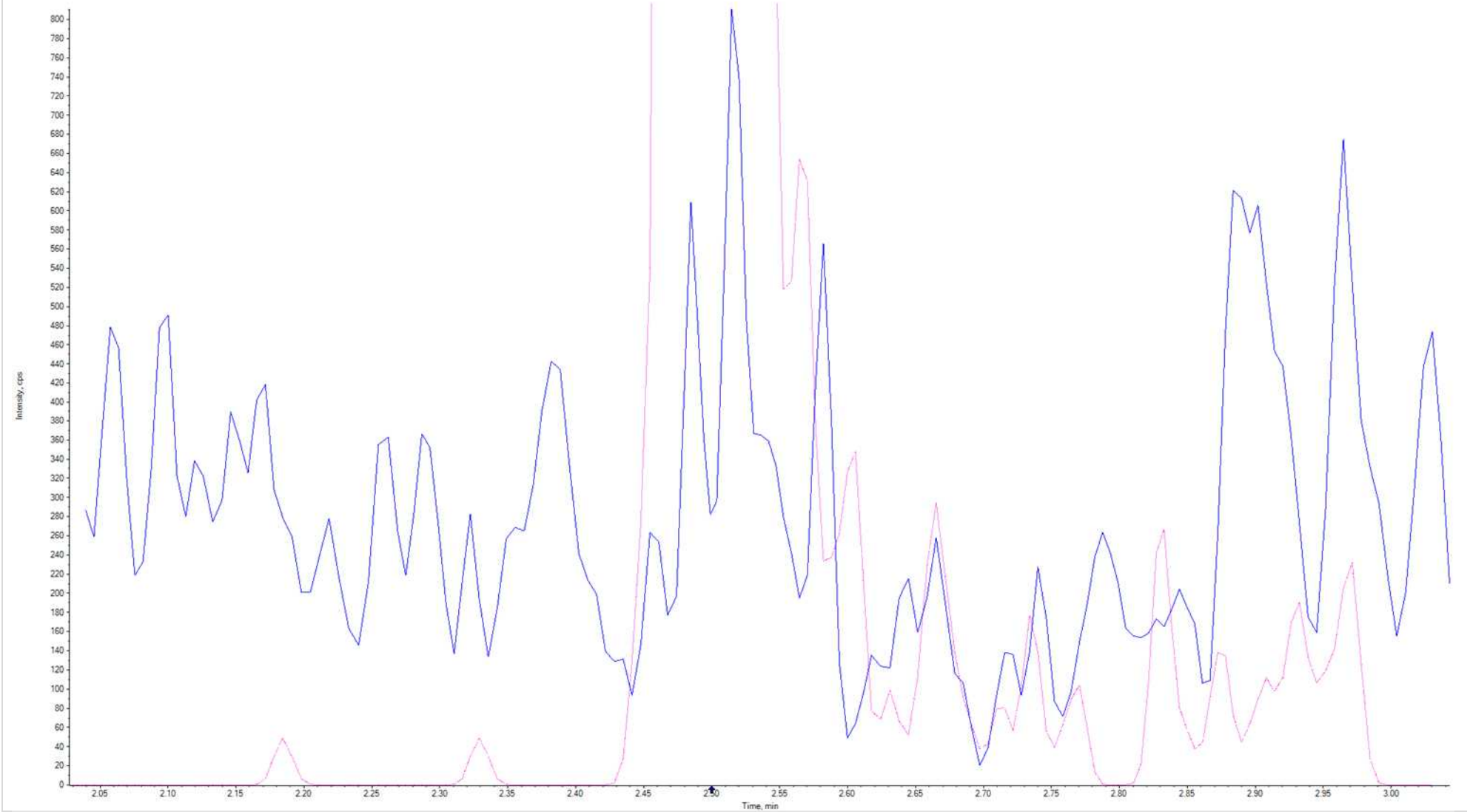
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PFHxA_2
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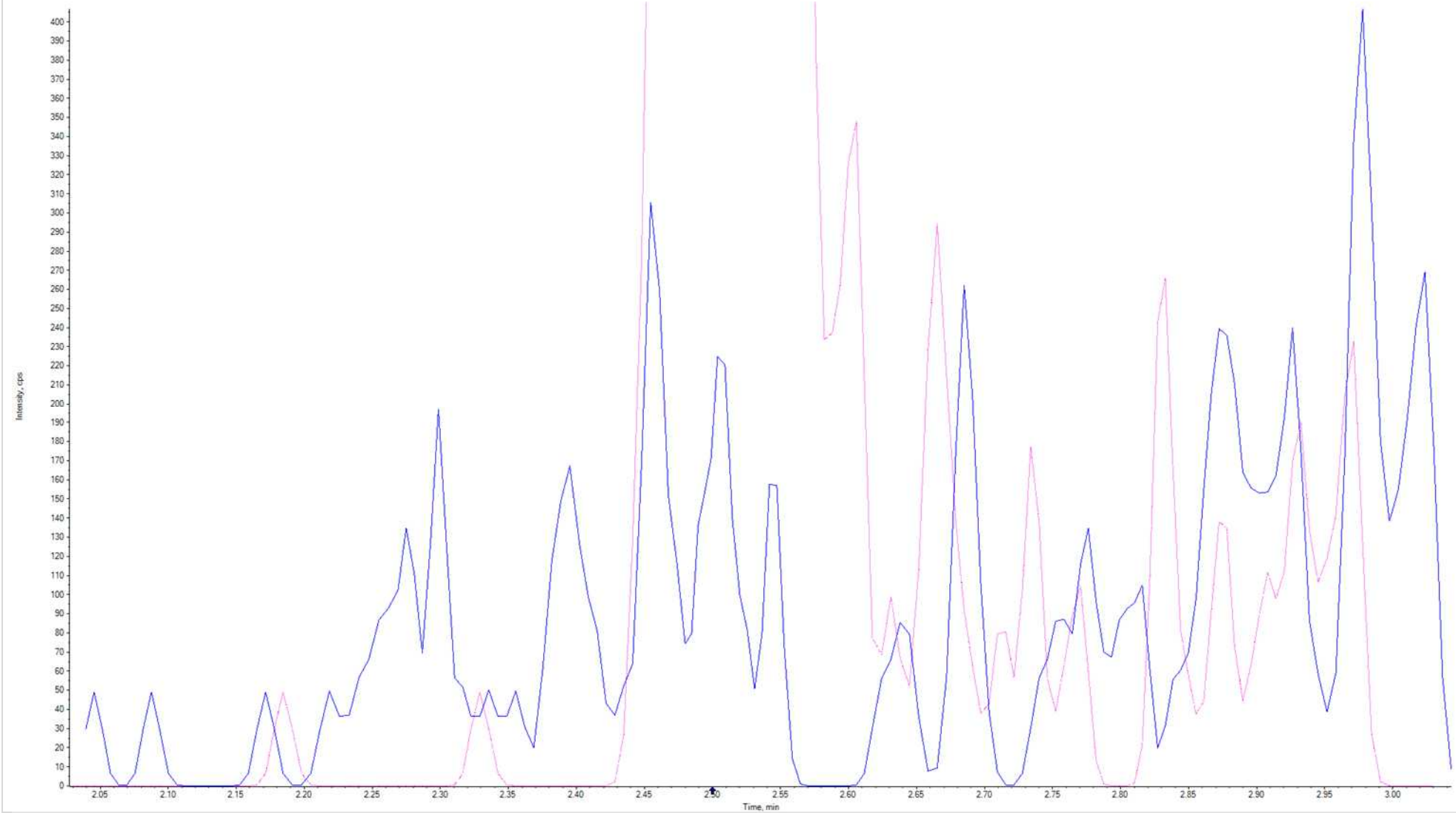
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PFHpA
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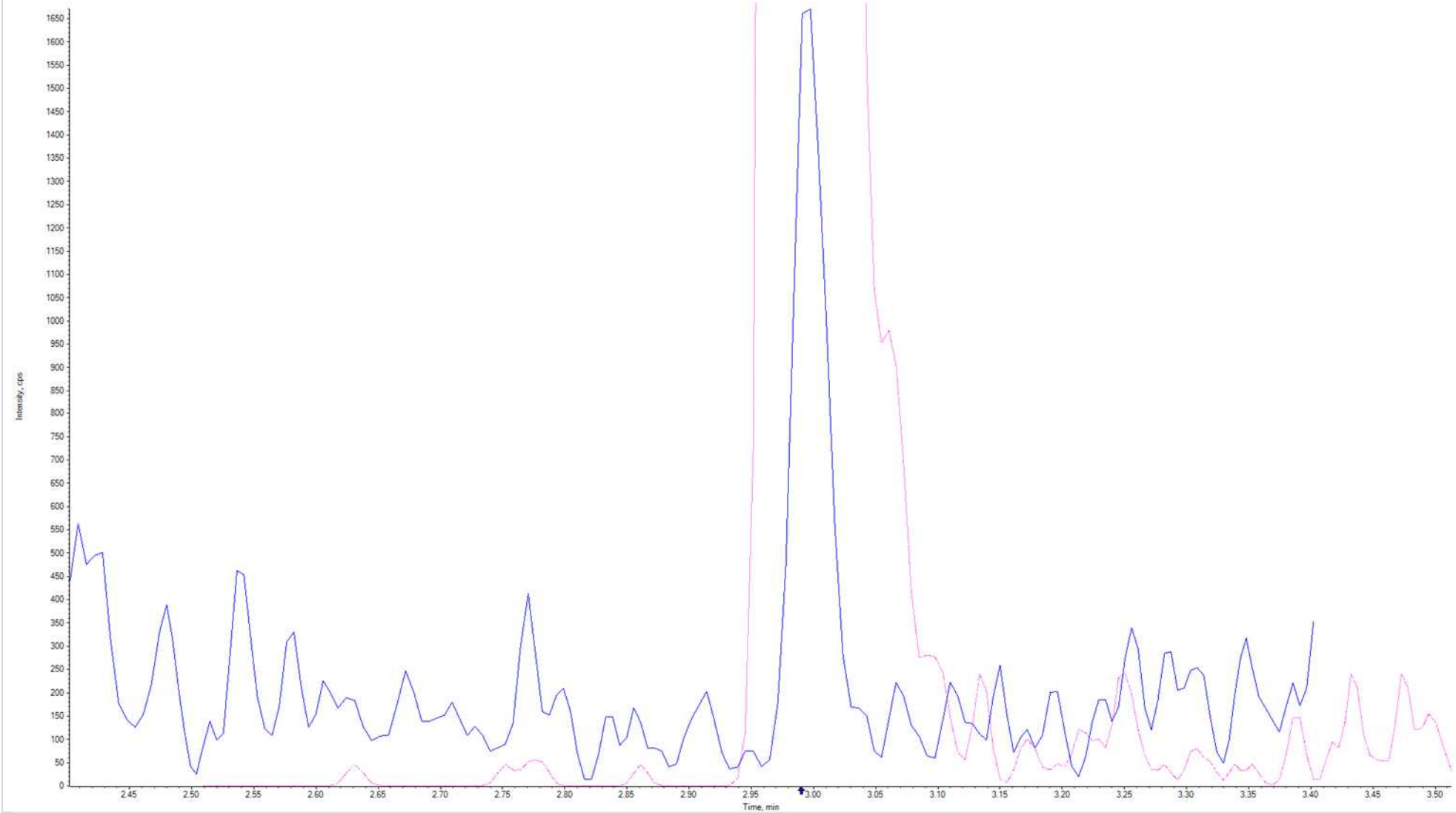
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PFHpA_2
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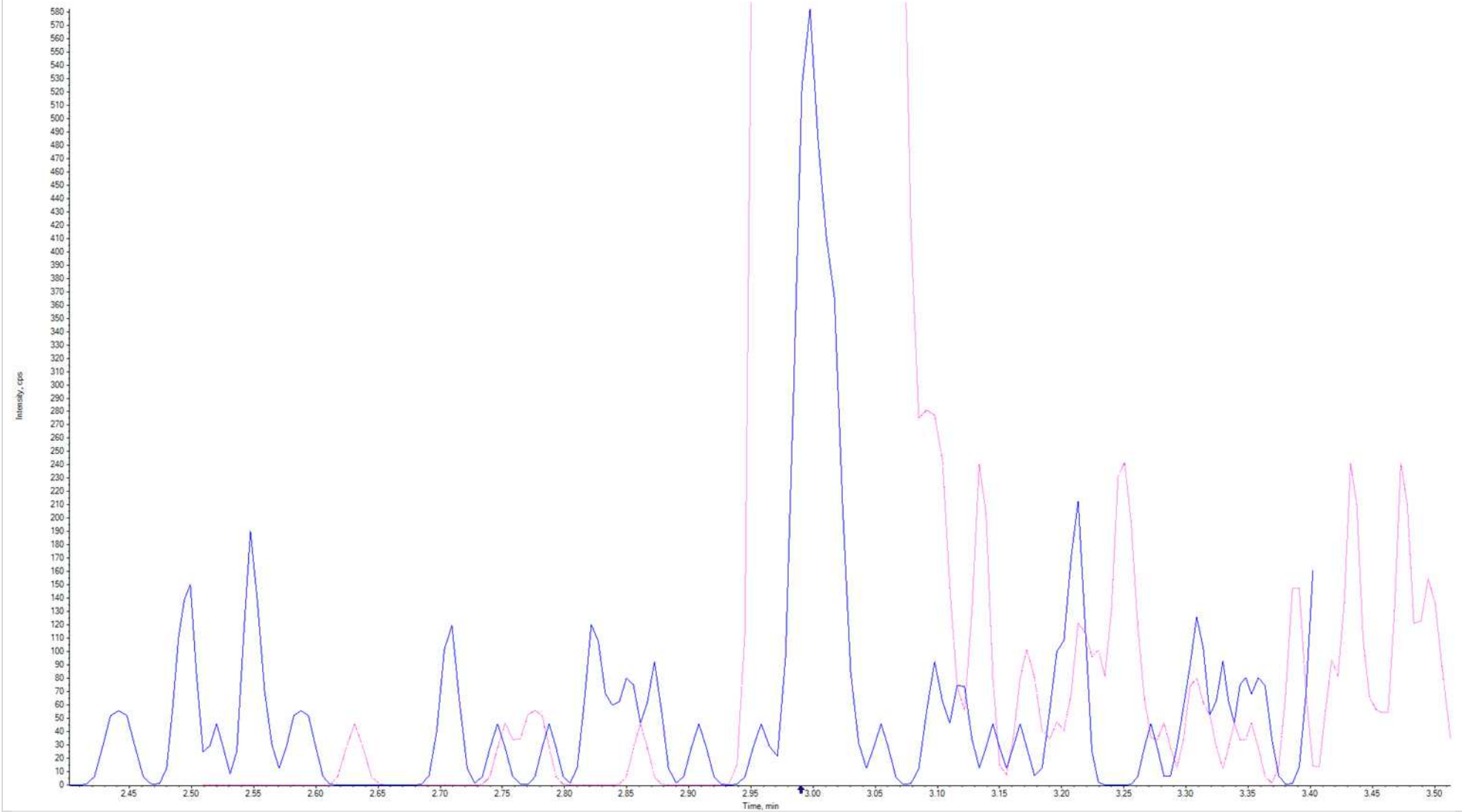
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PFOA
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



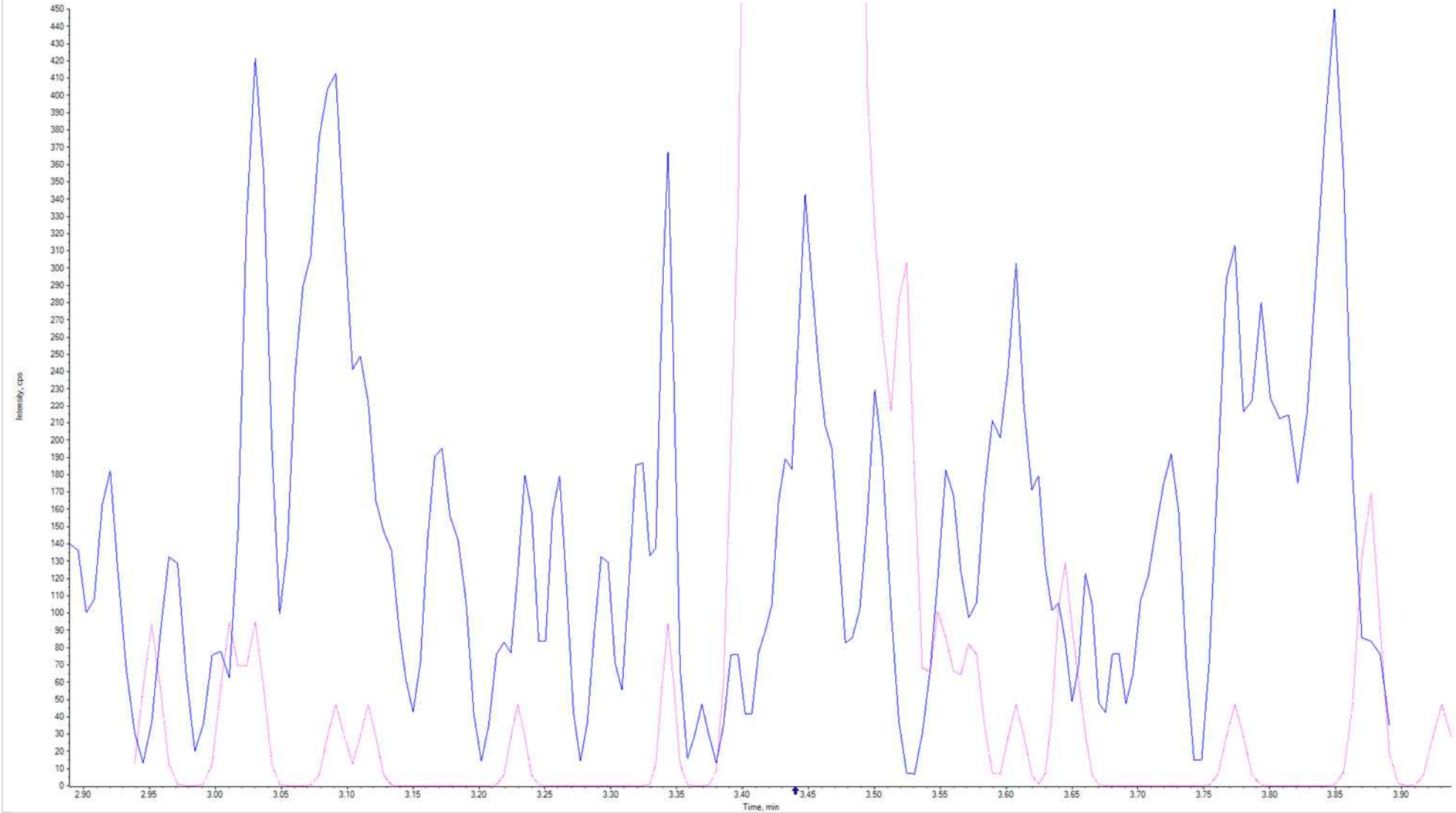
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PFOA_2
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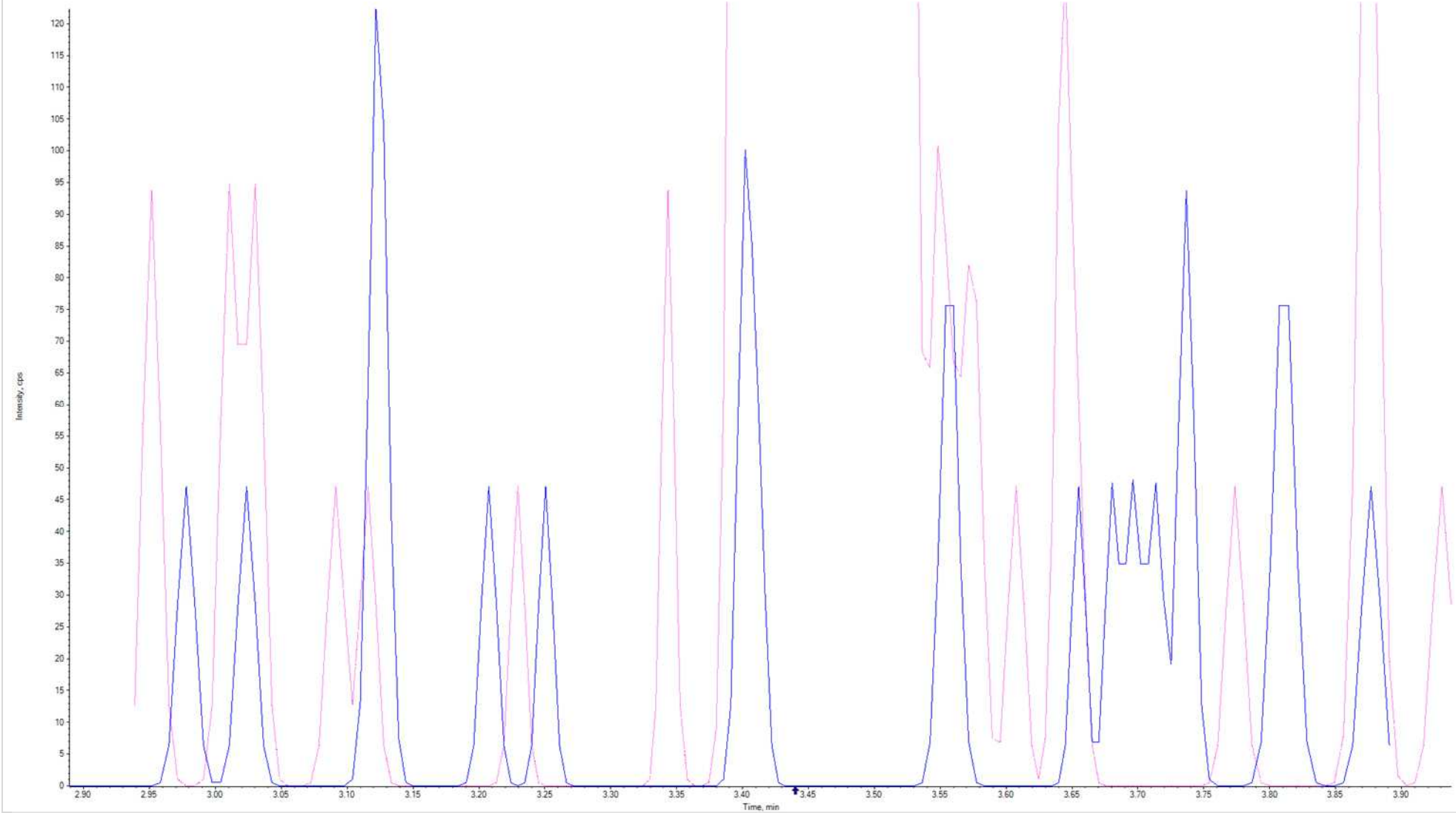
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PFNA
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



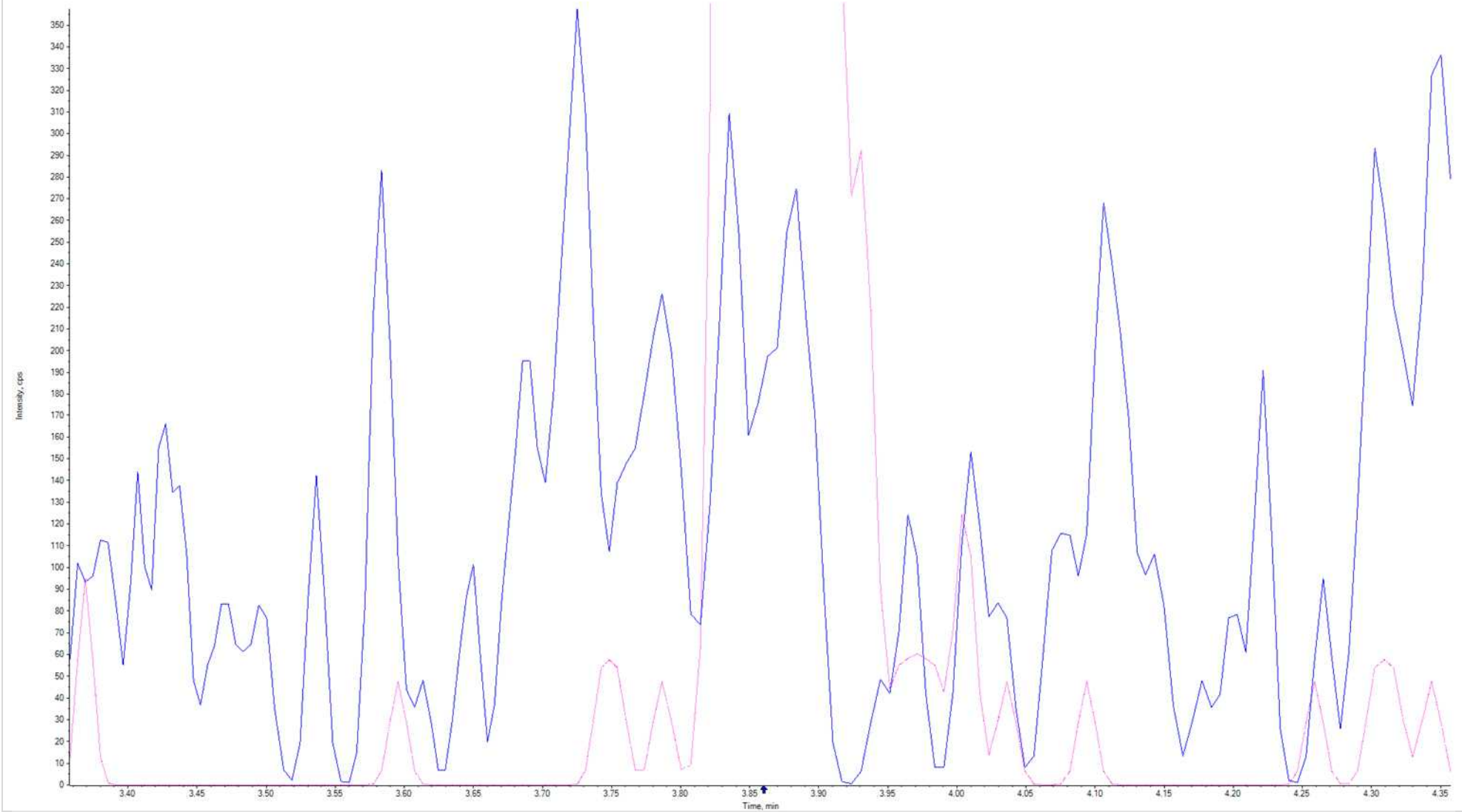
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PFNA_2
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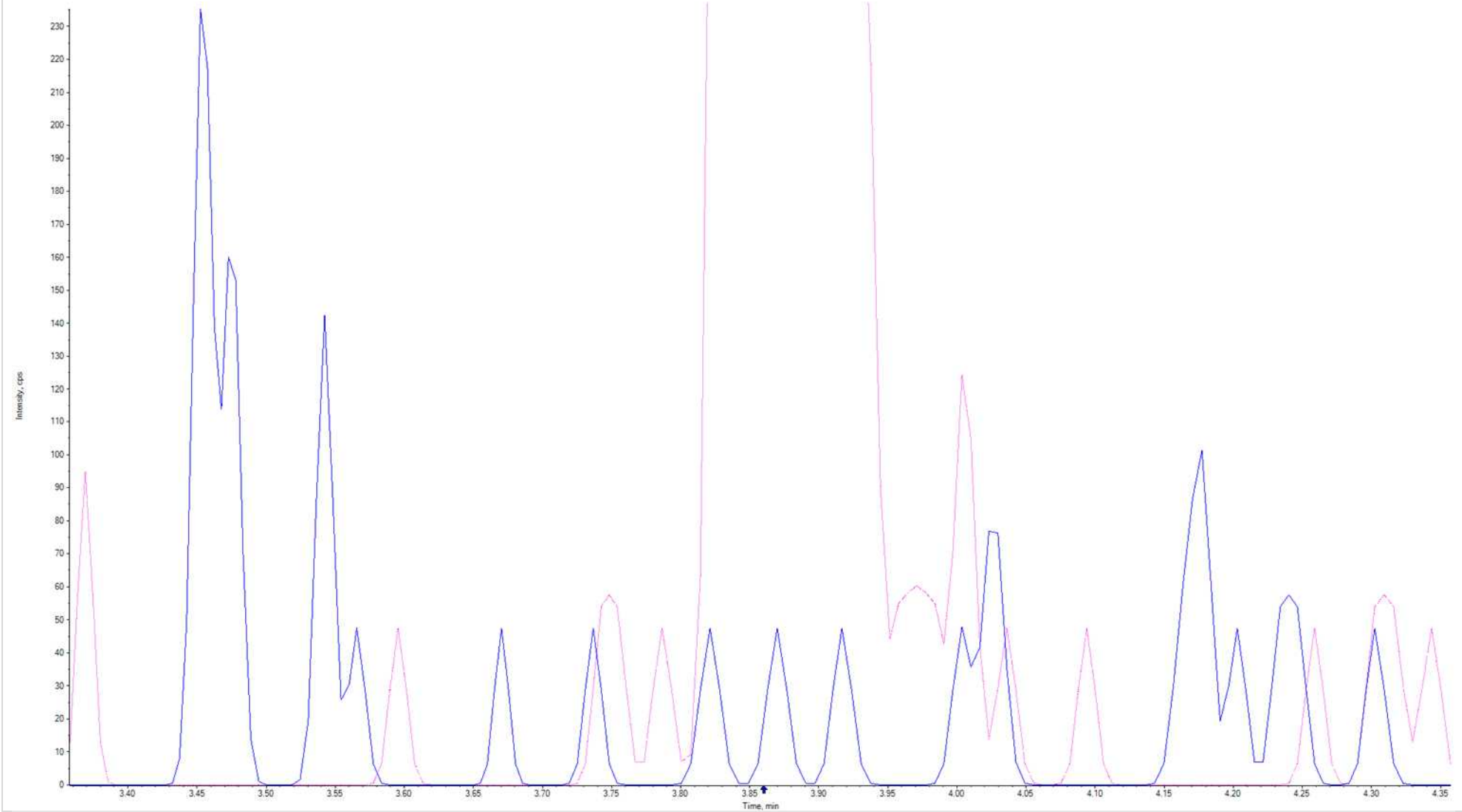
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PFDA
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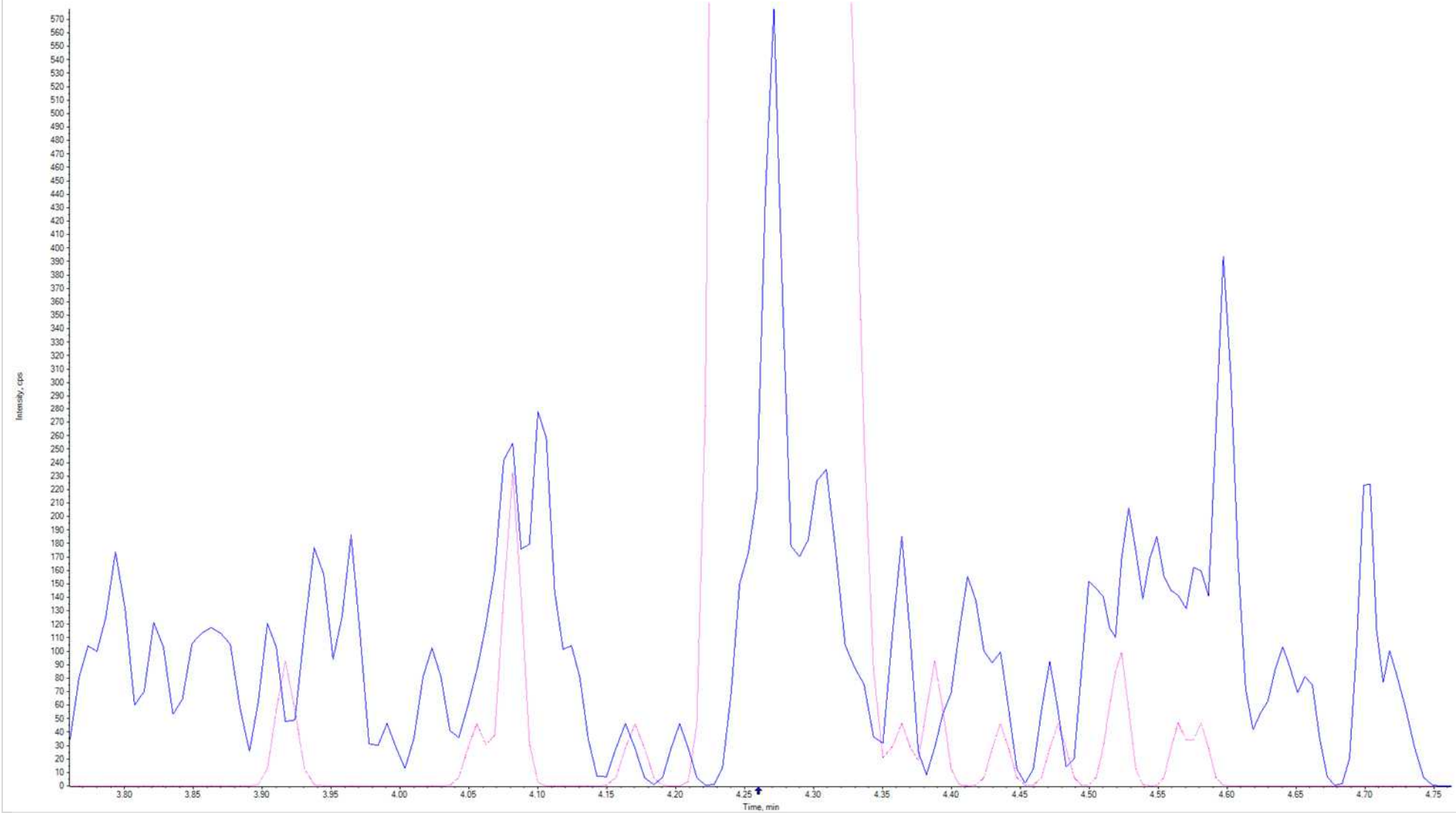
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PFDA_2
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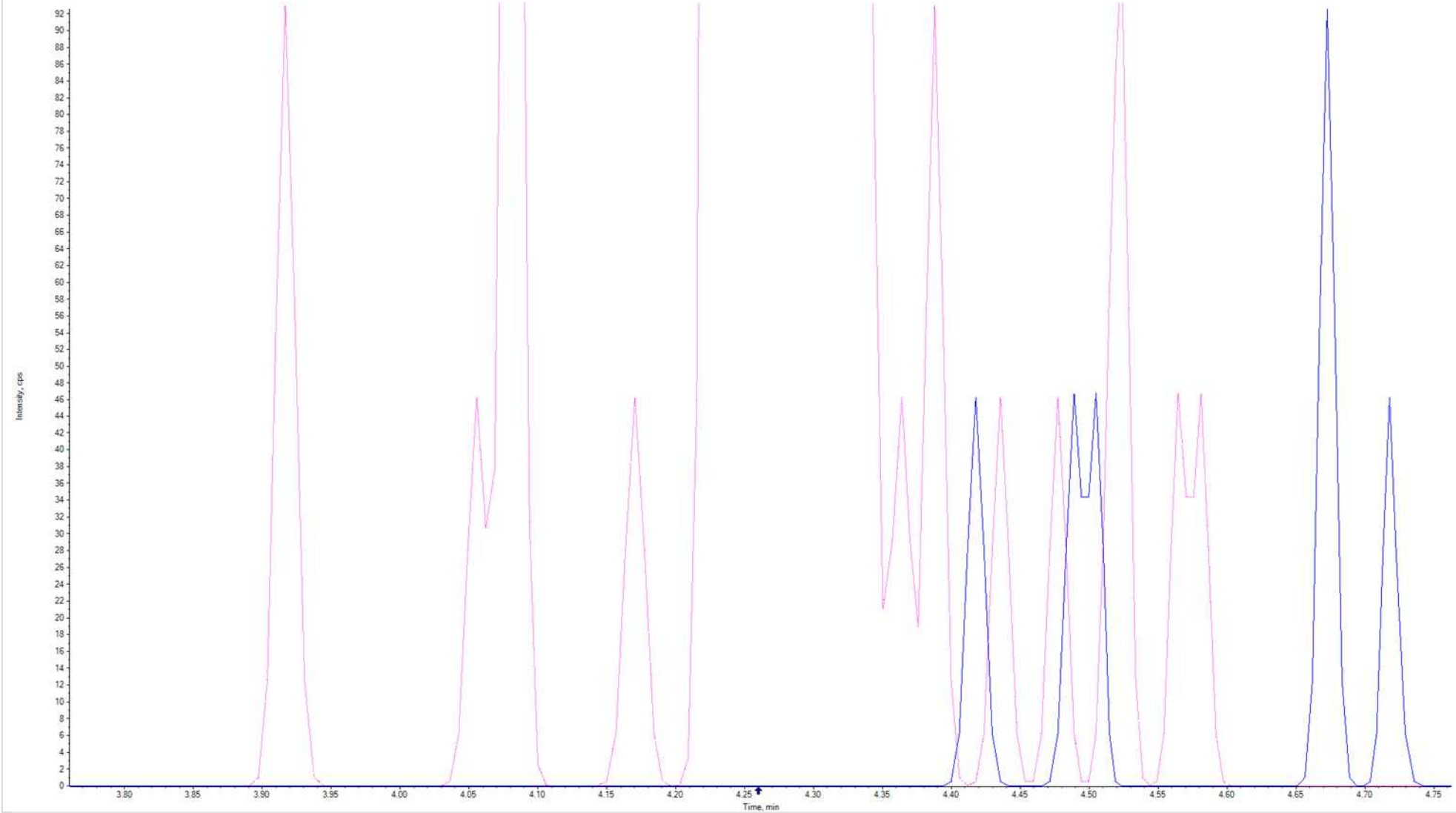
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PFUnA
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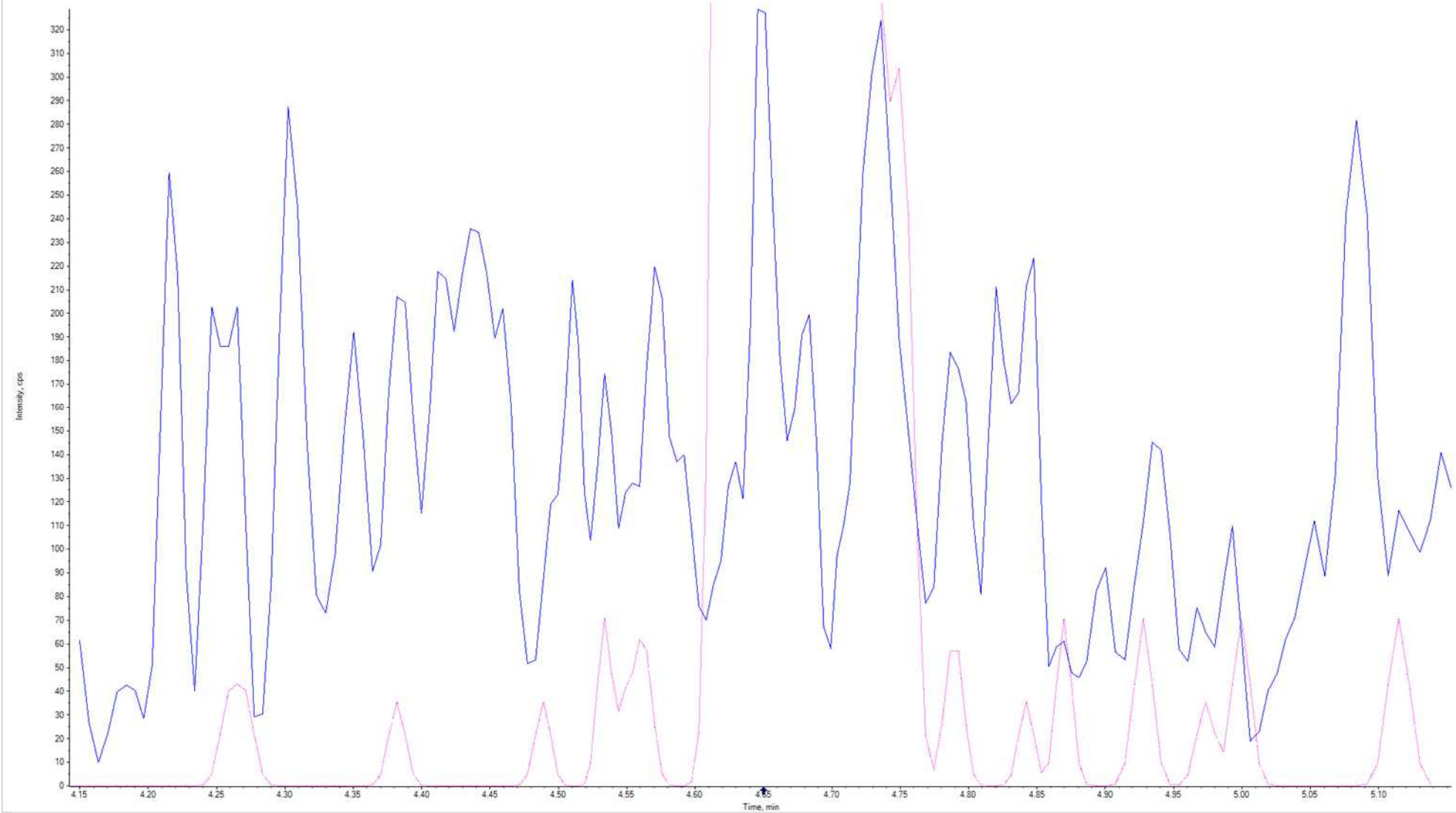
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PFUnA_2
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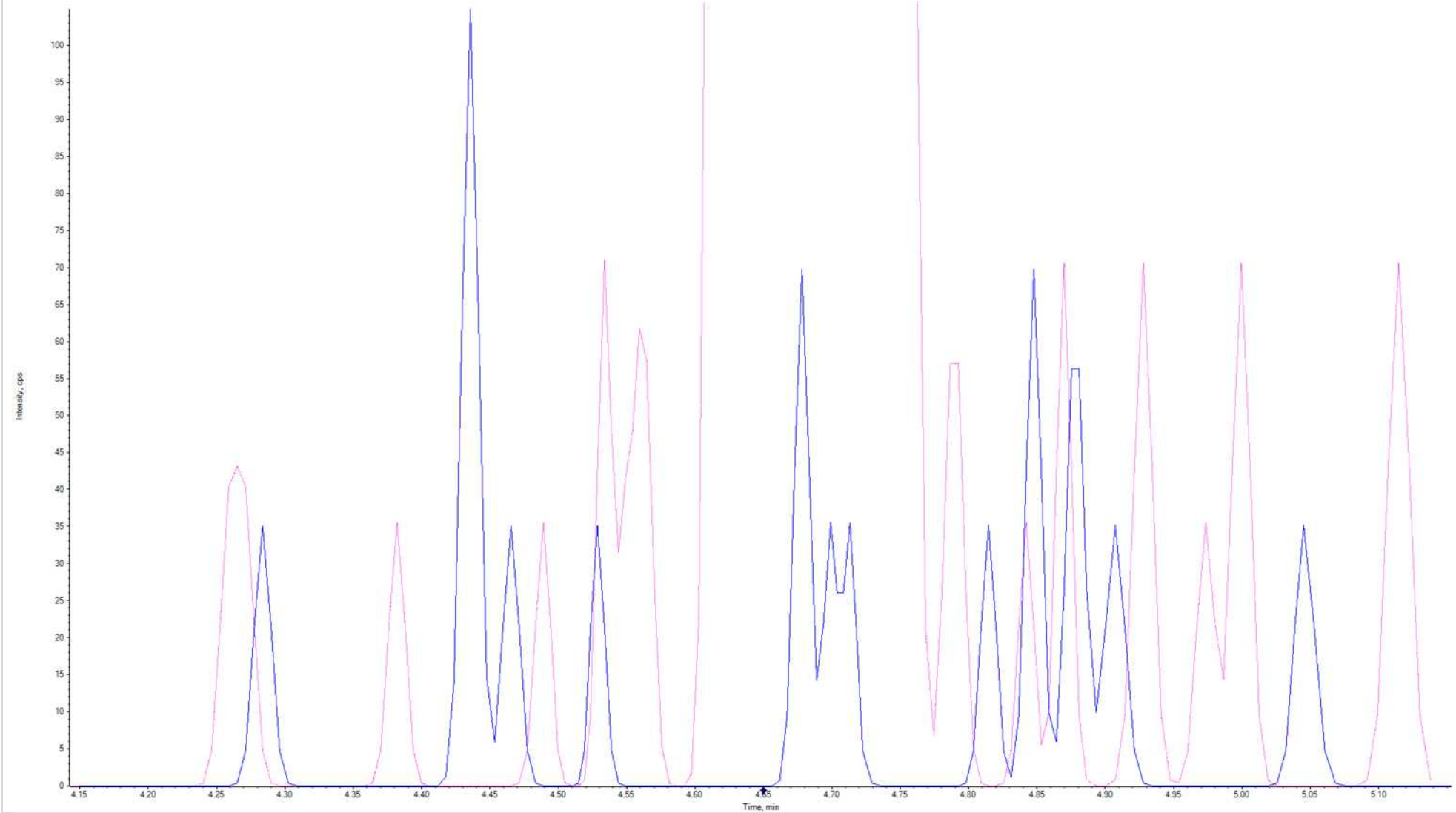
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PFDoA
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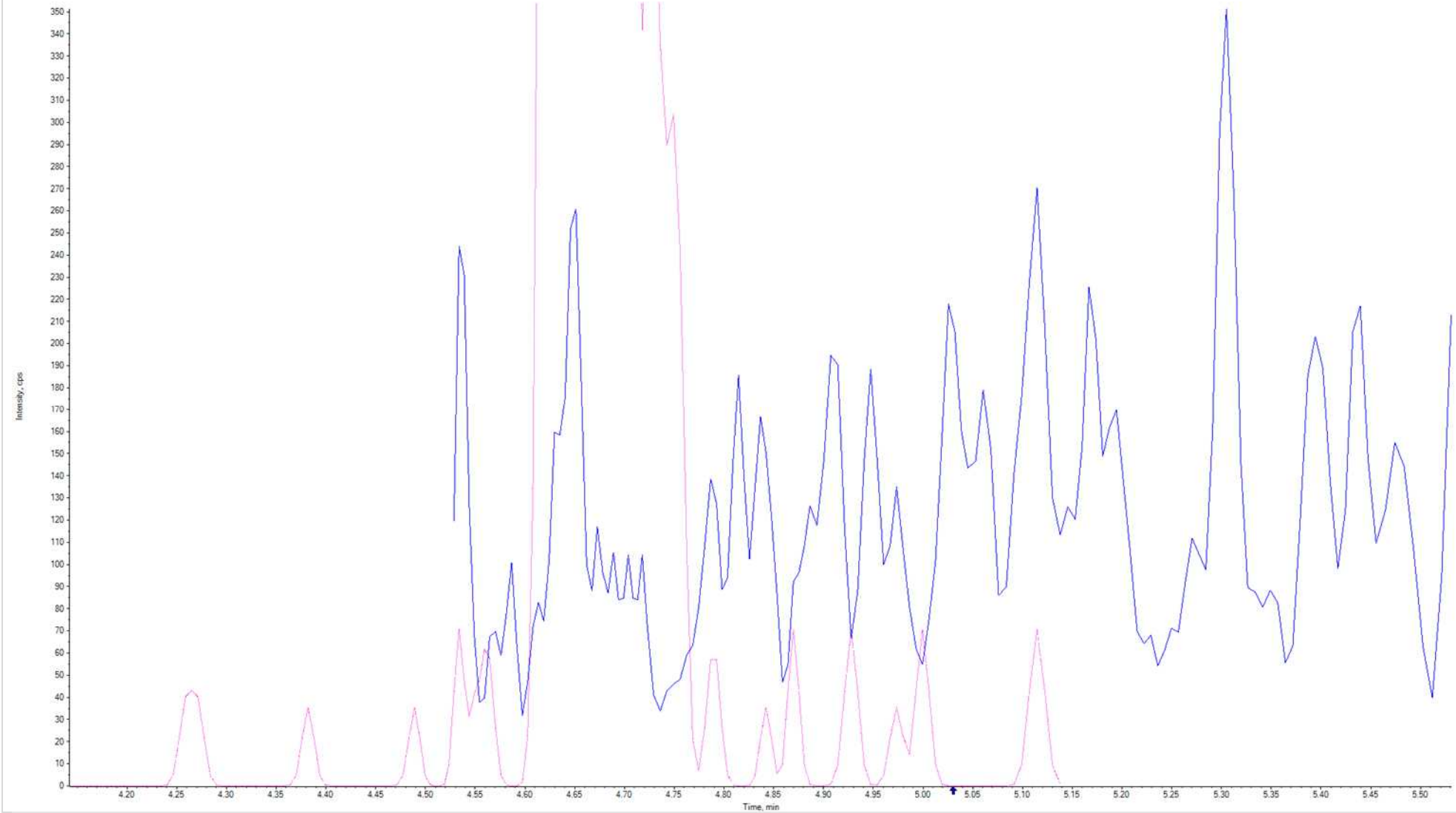
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PFDoA_2
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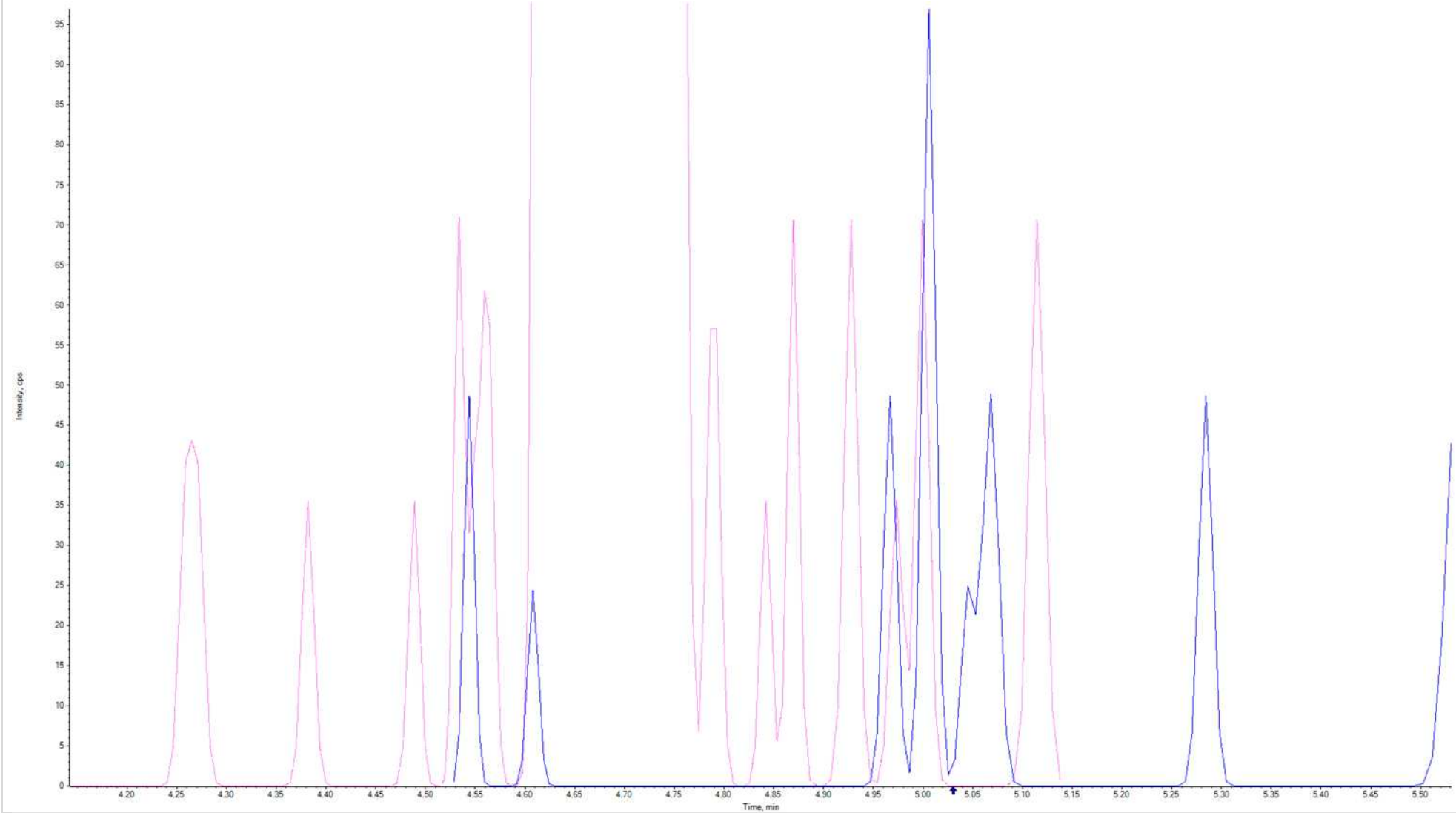
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PFTrDA
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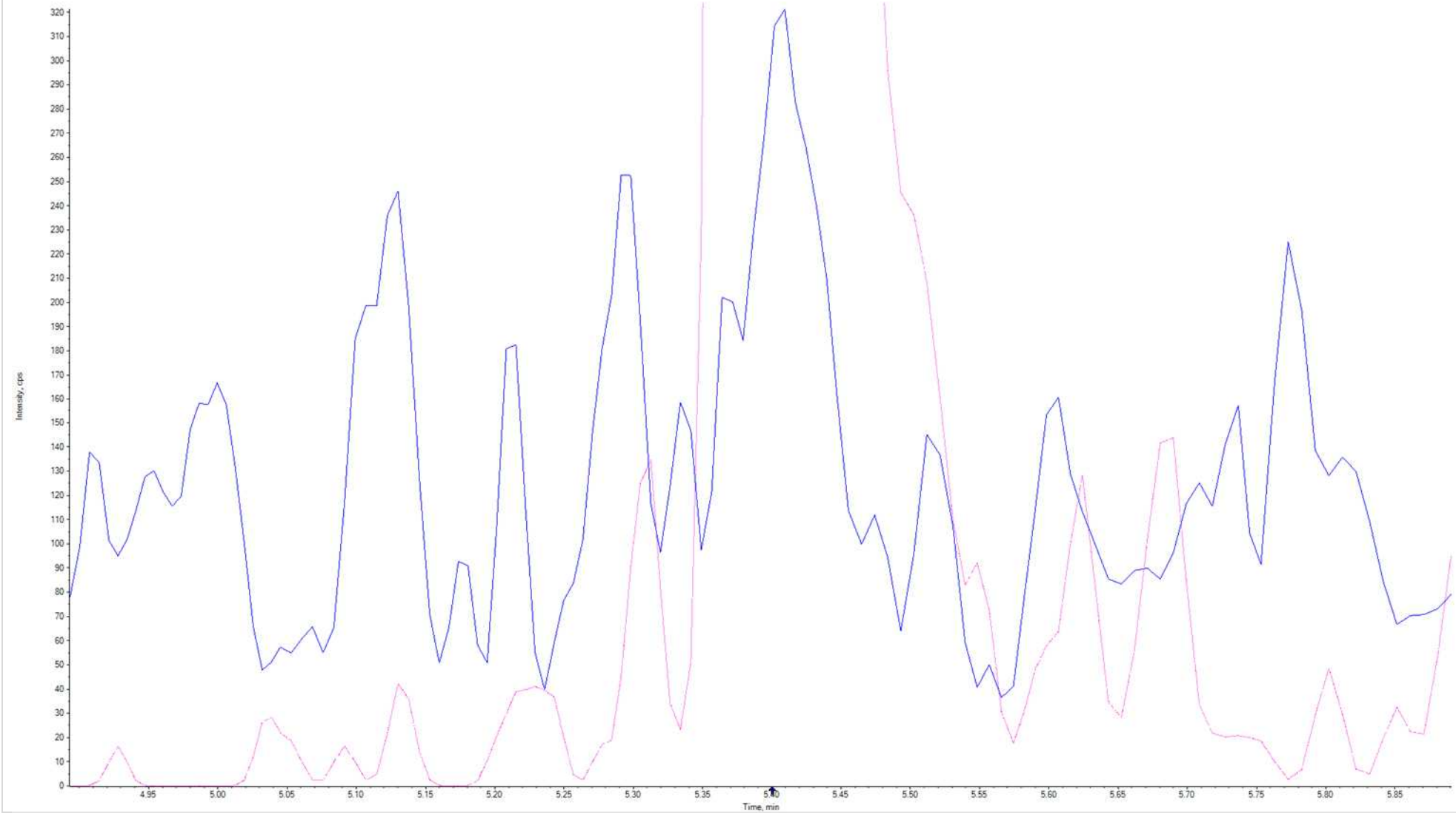
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PFTrDA_2
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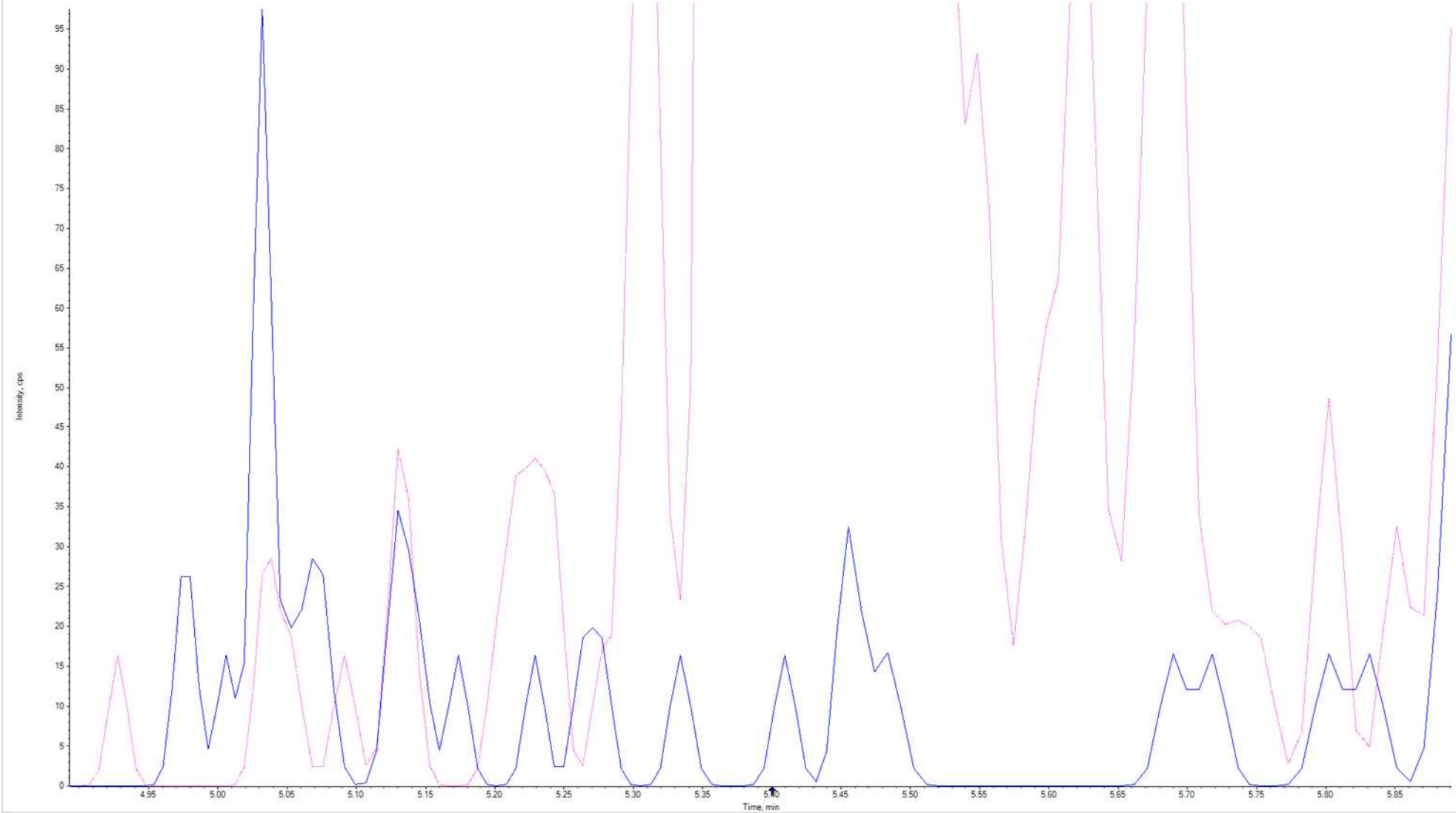
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFTeDA
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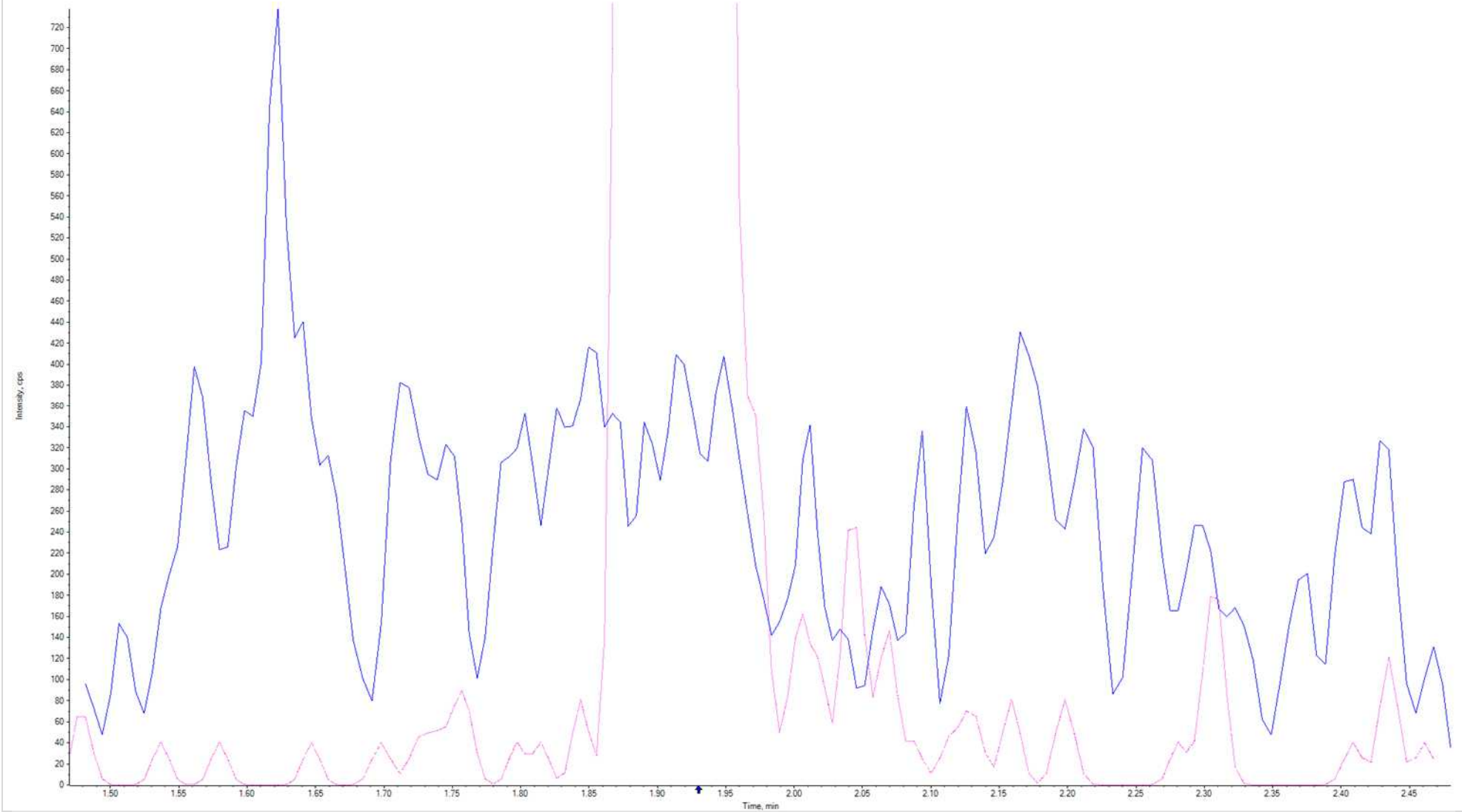
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PFTeDA_2
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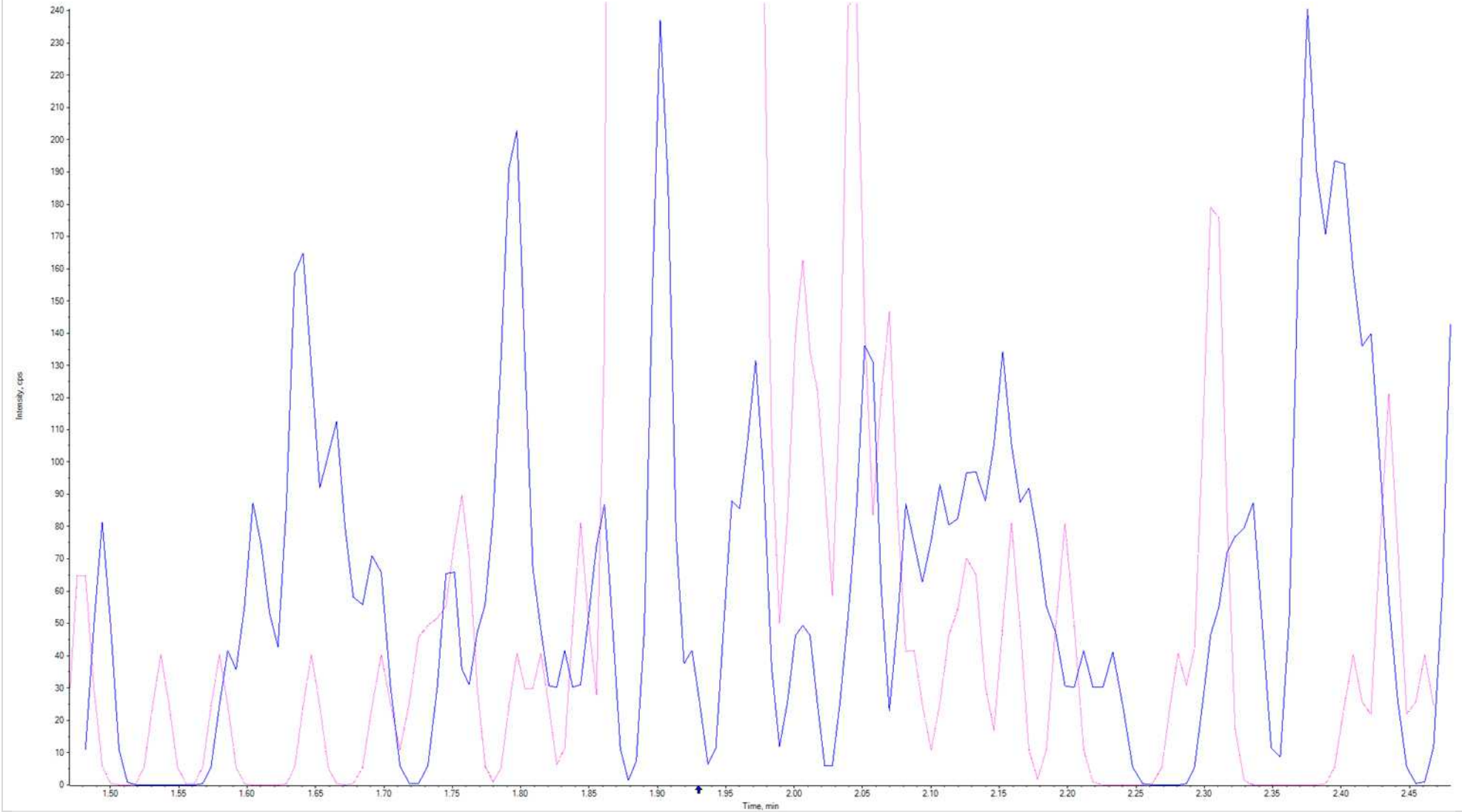
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PFBS
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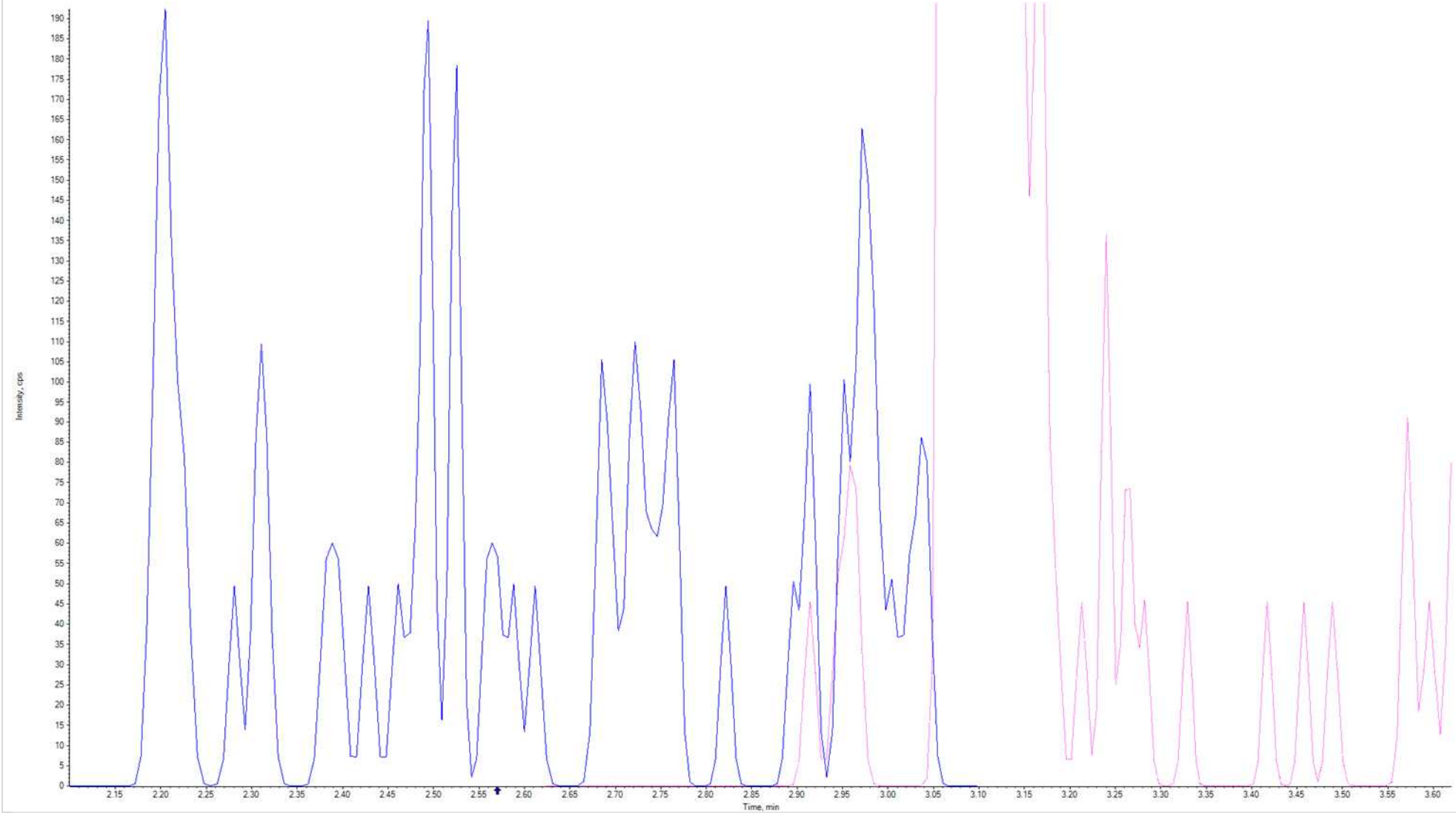
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PFBS_2
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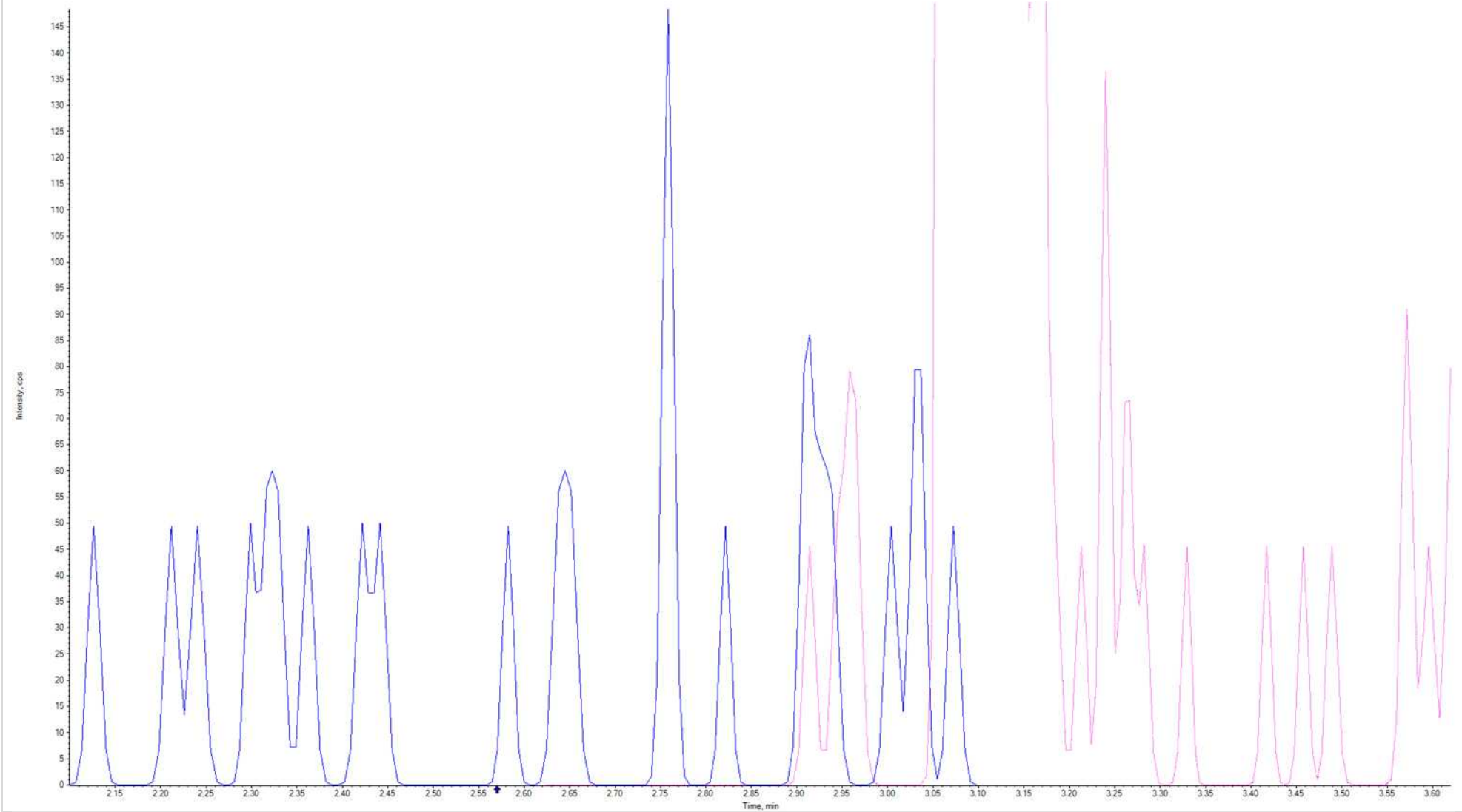
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PFPeS
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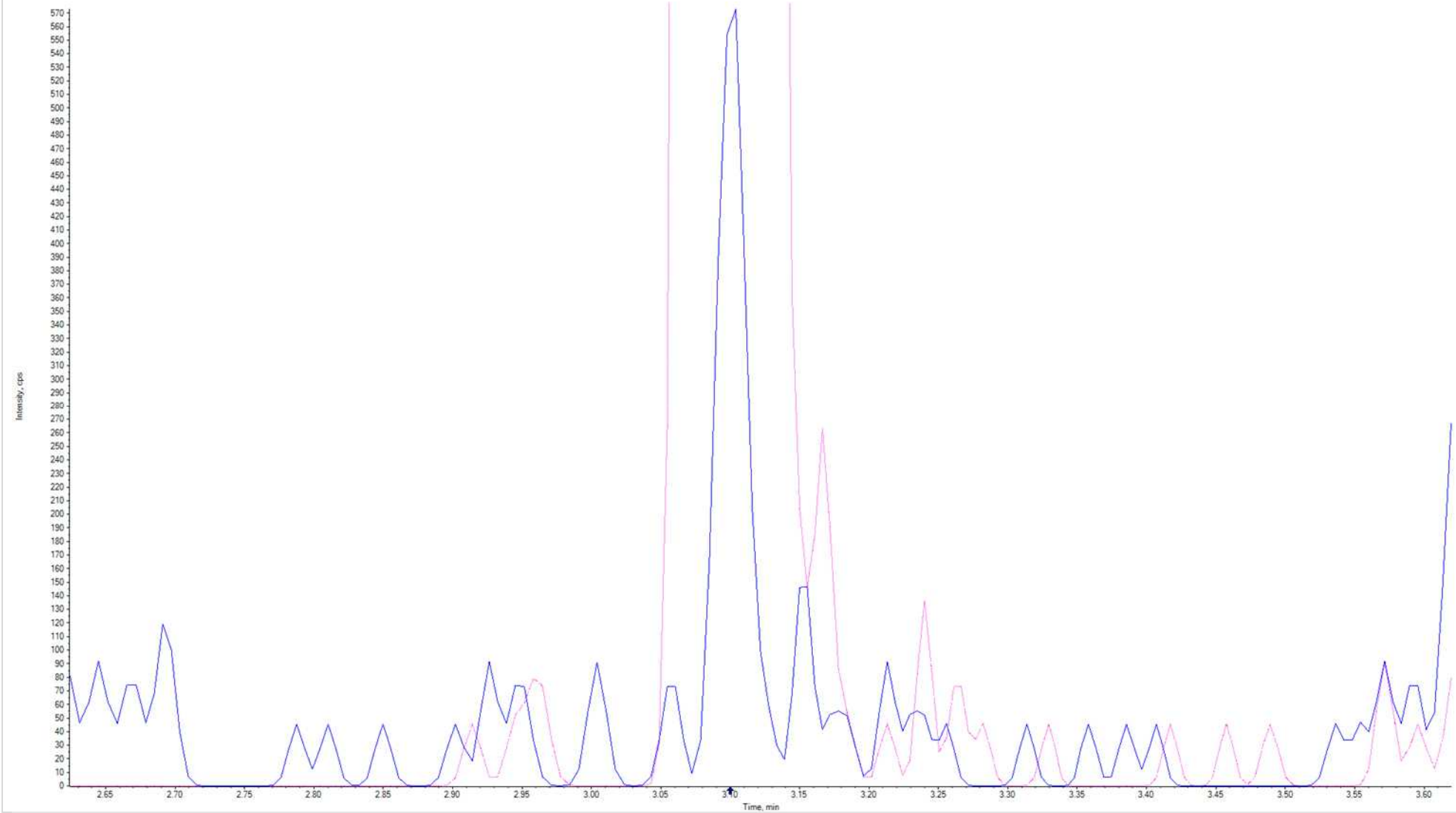
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PFPeS_2
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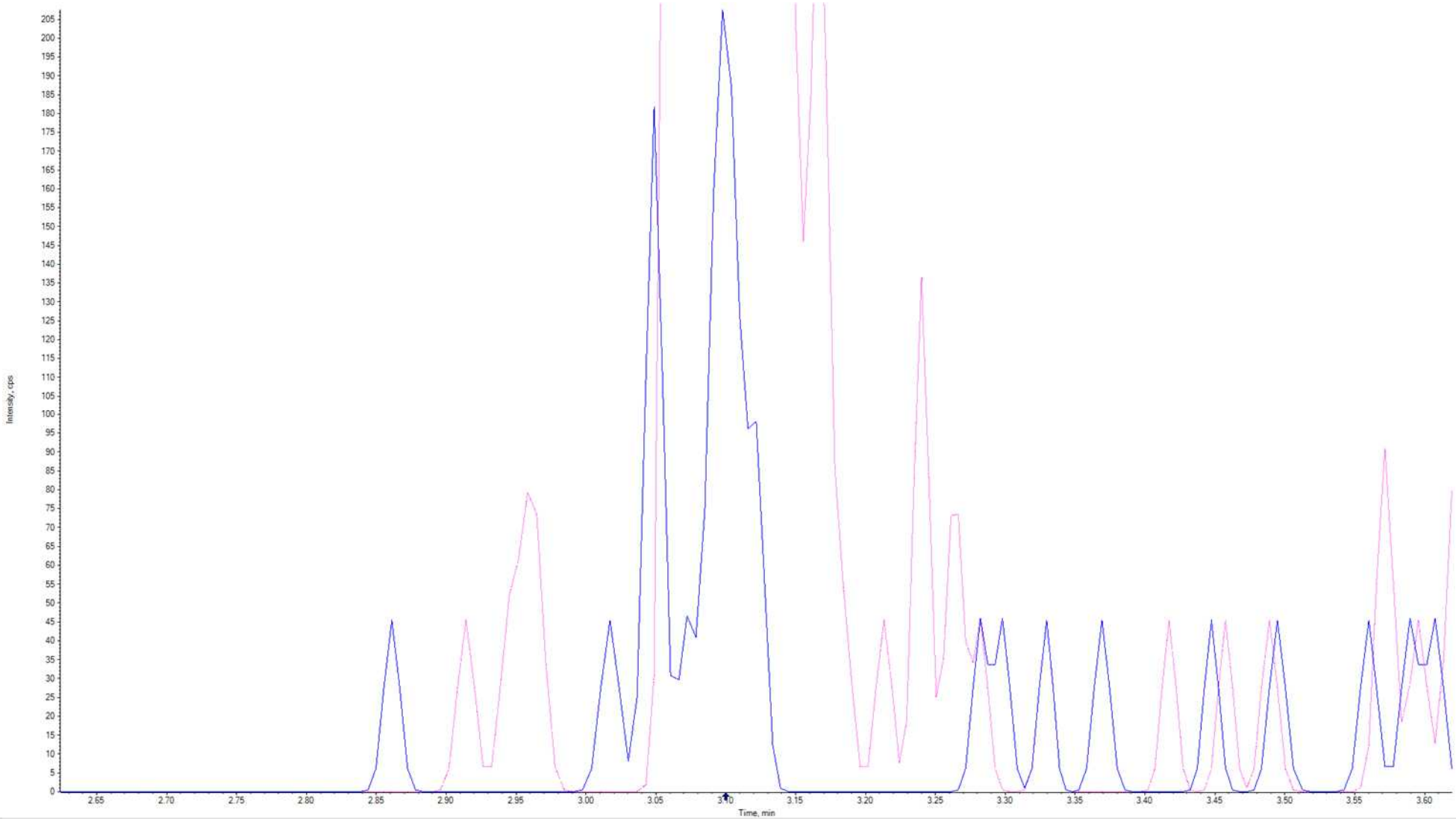
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PFHxS
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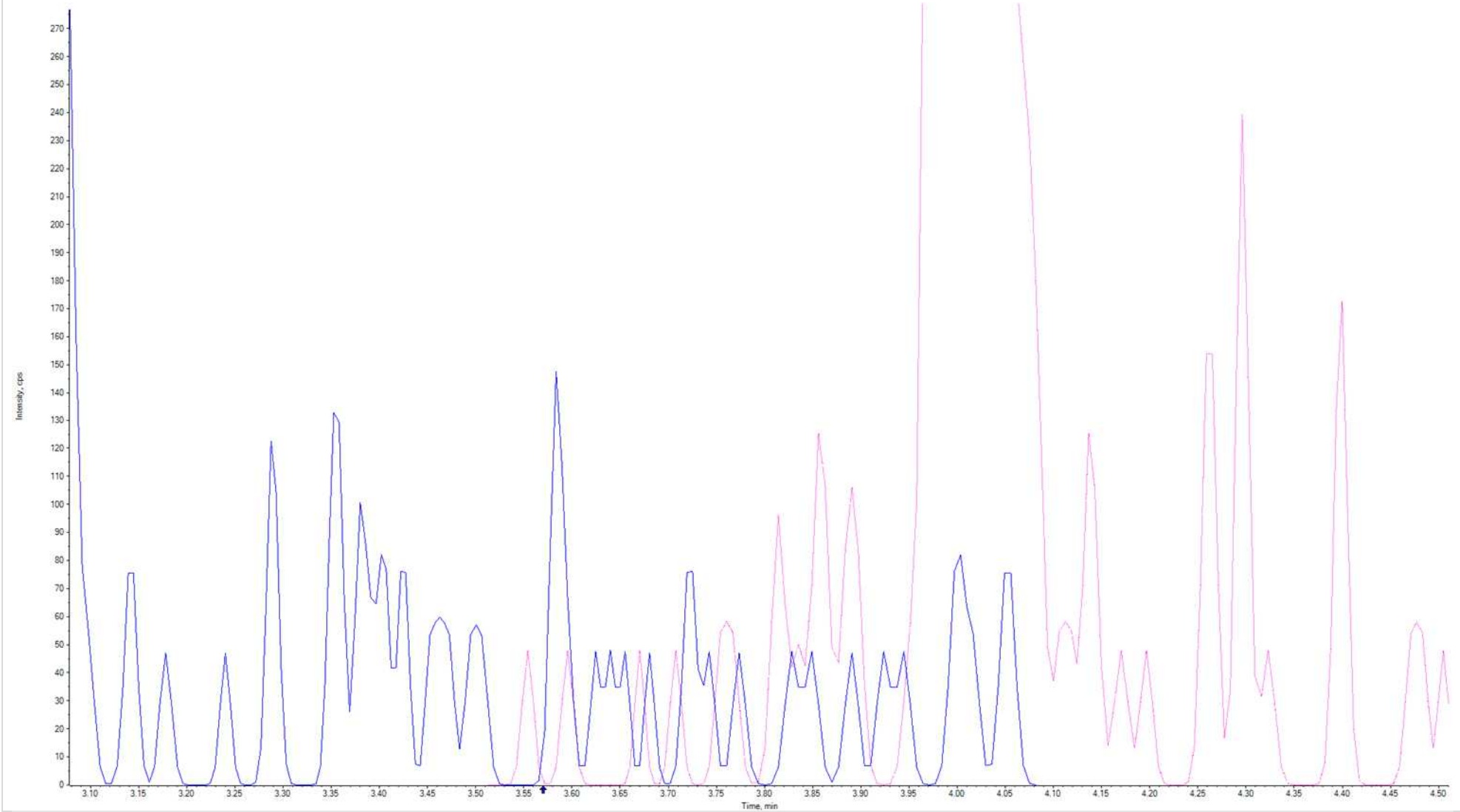
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PFHxS_2
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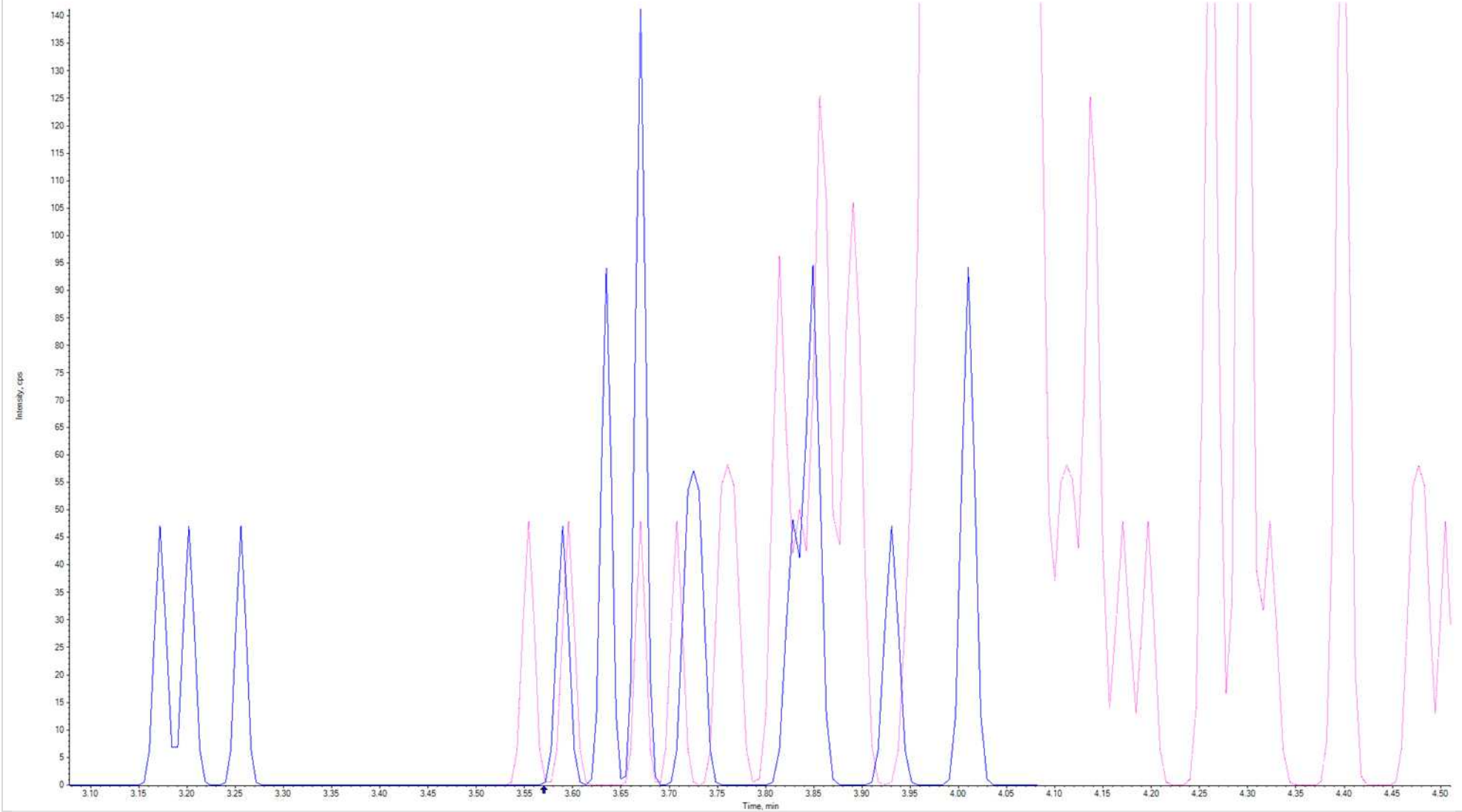
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PFHpS
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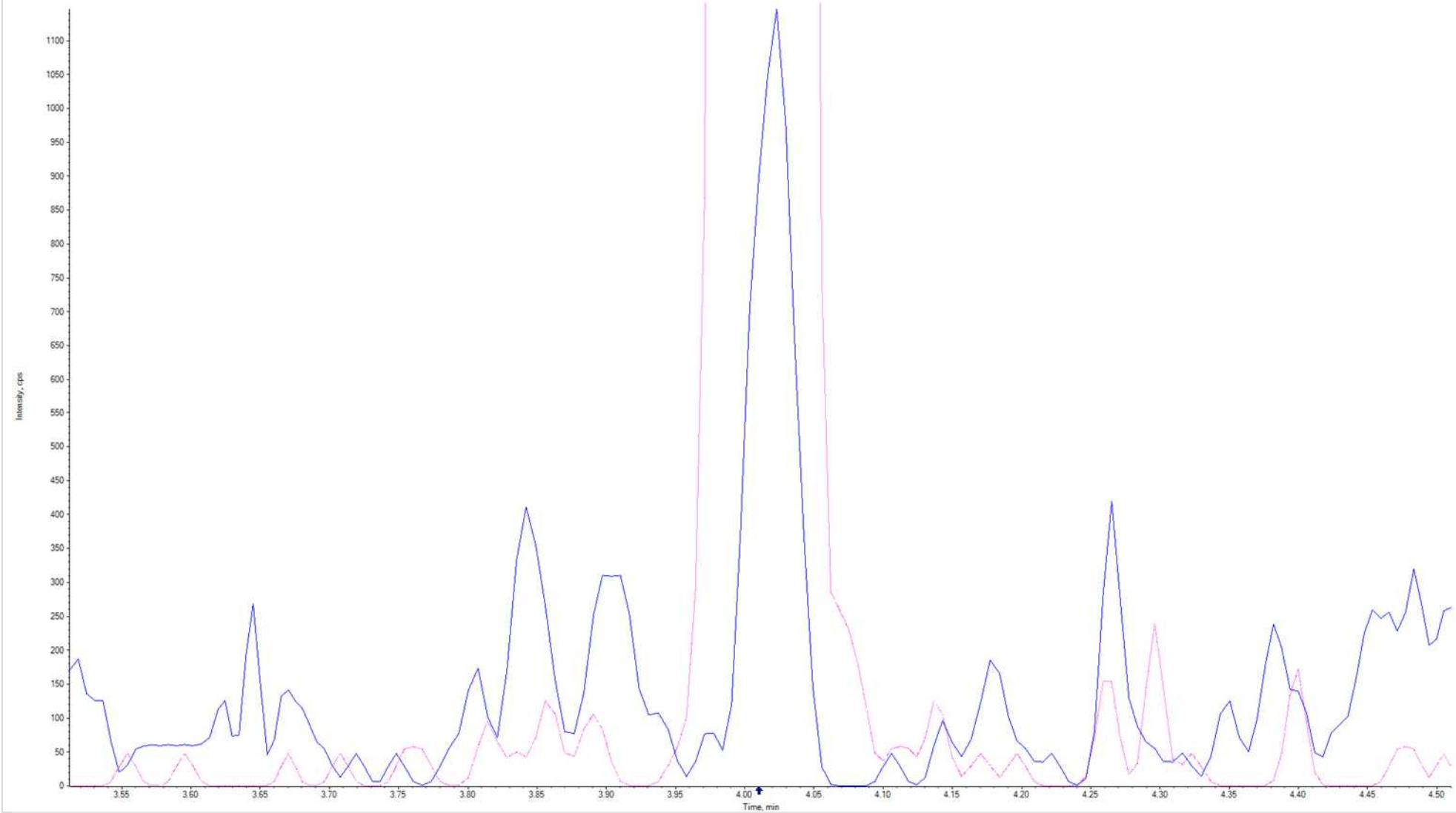
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PFHpS_2
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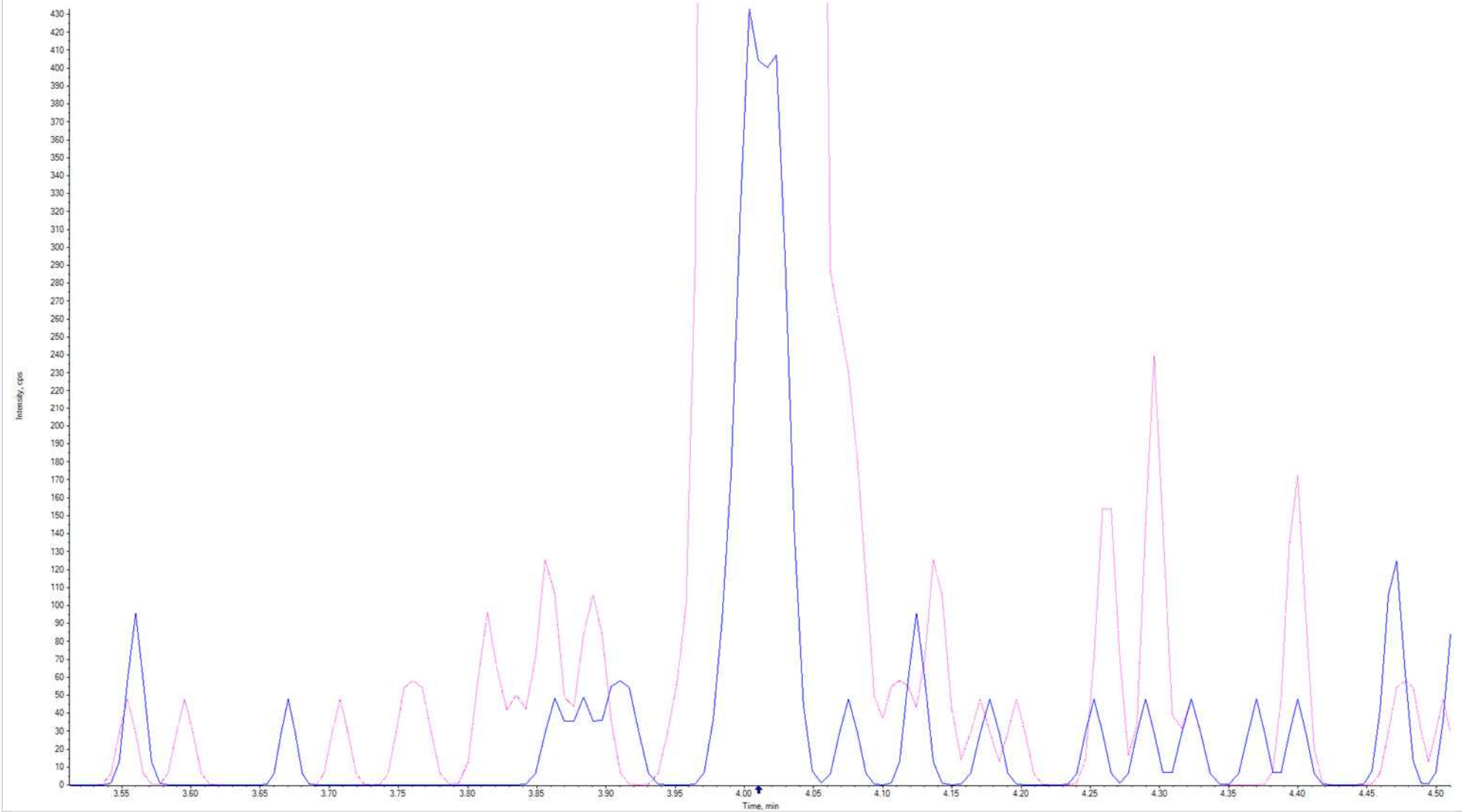
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PFOS
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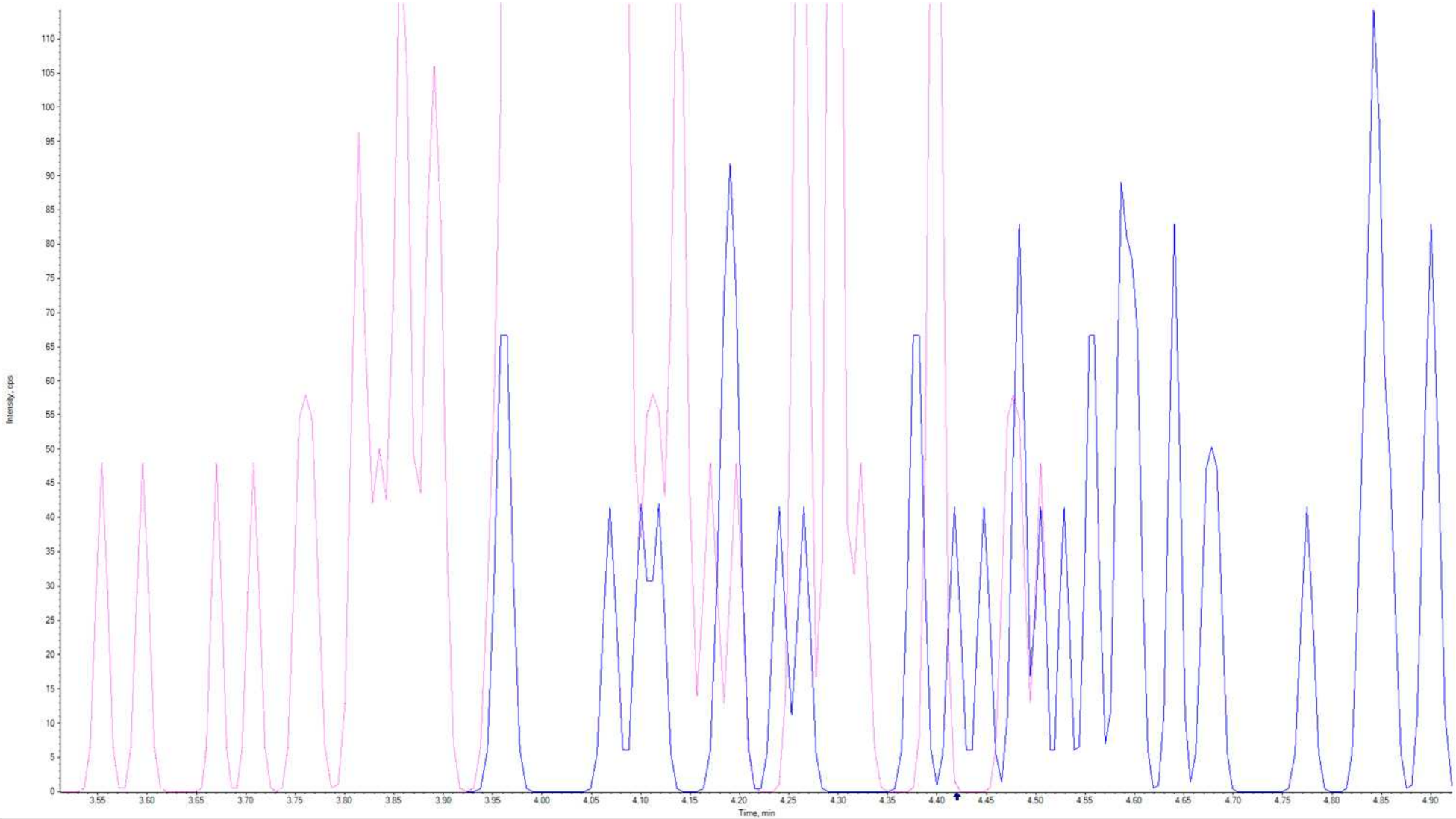
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PFOS_2
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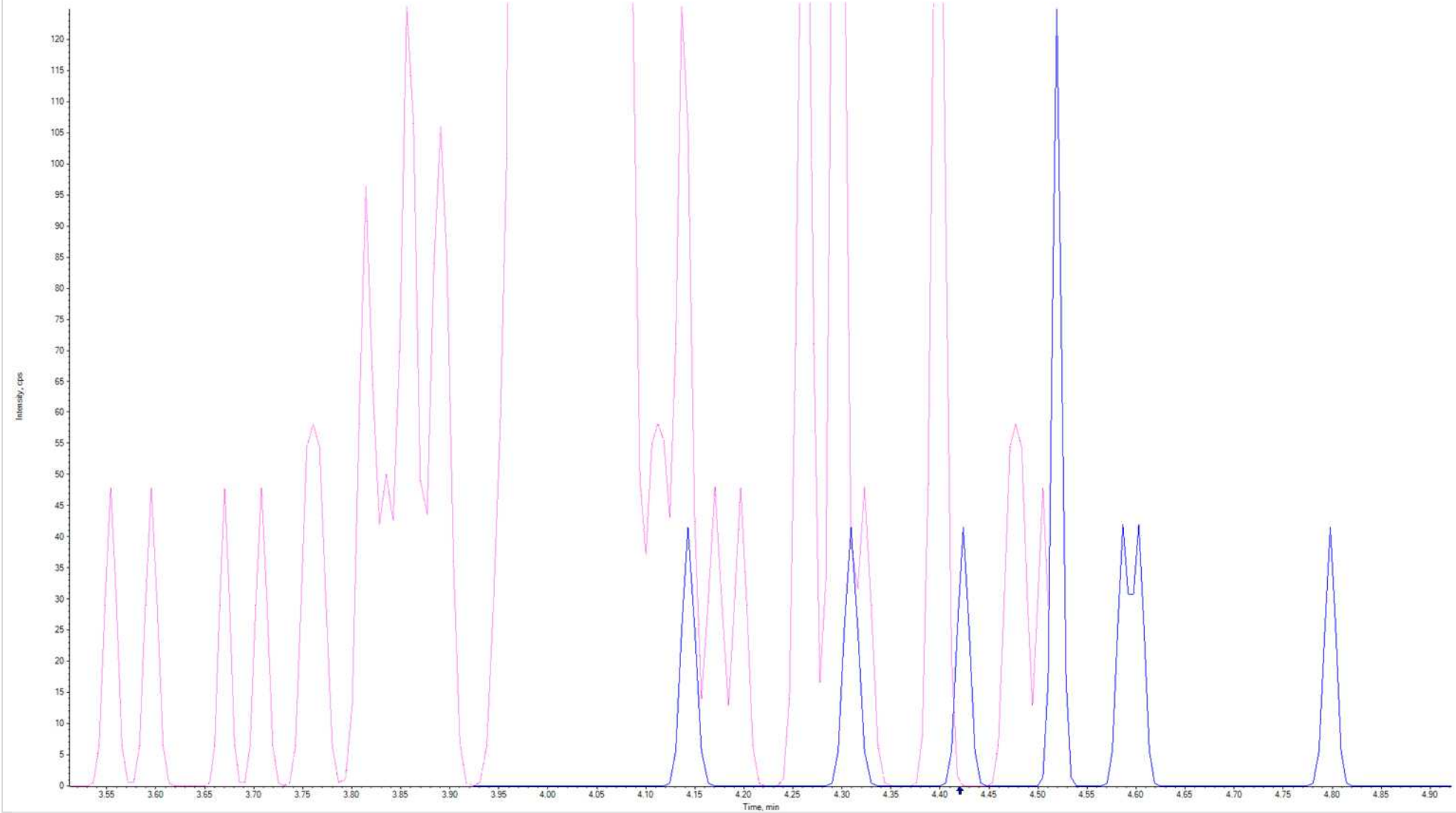
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PFNS
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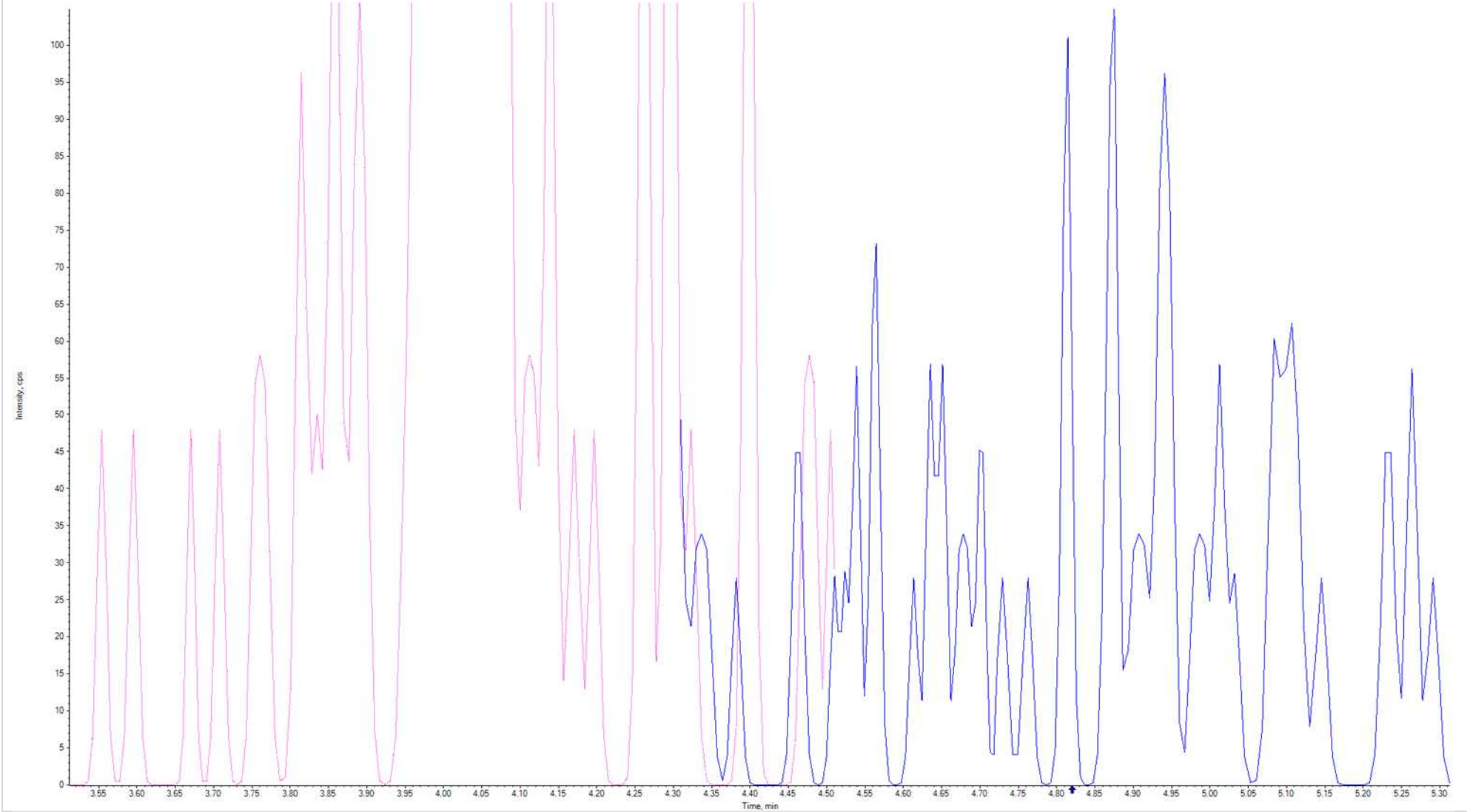
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PFNS_2
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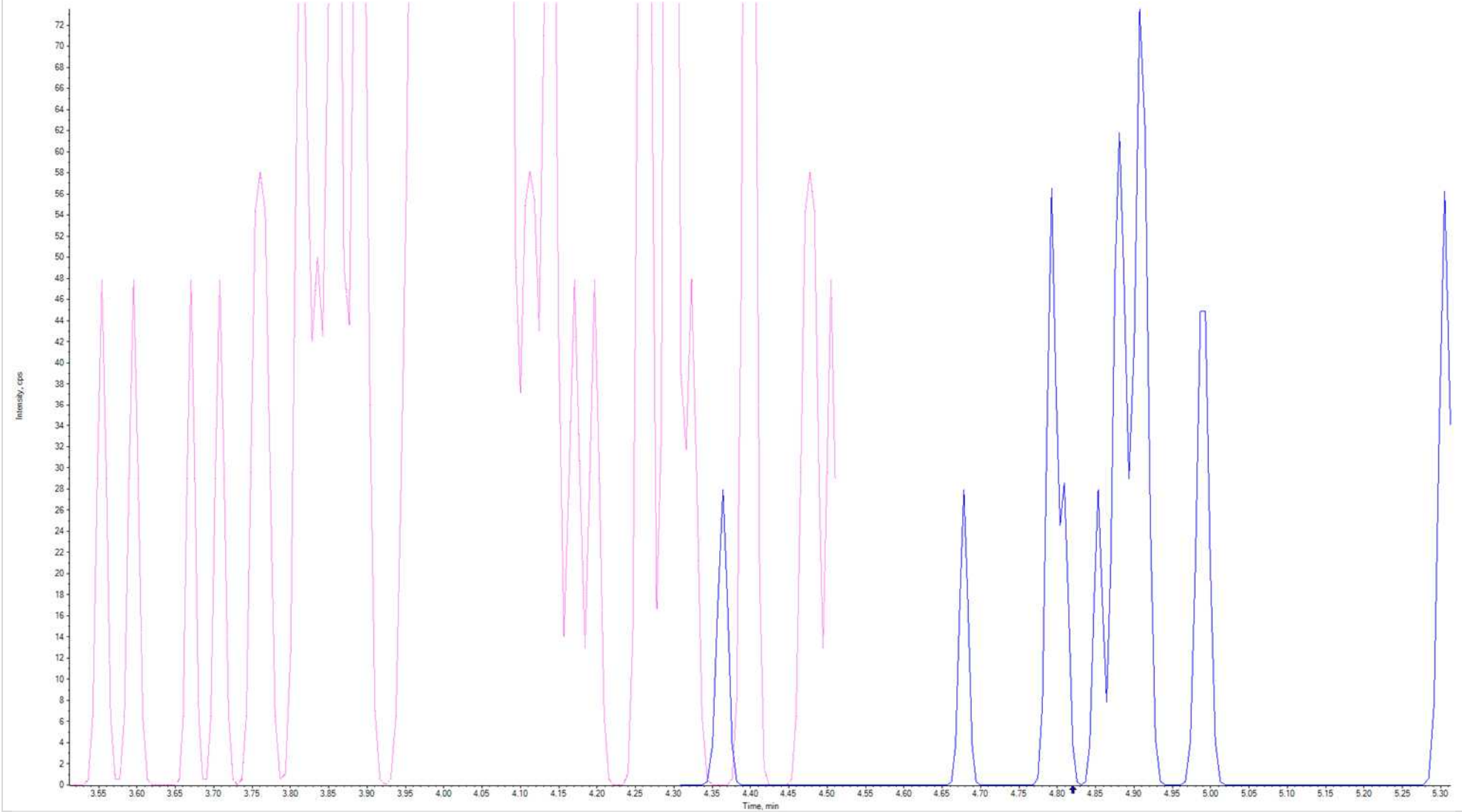
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PFDS
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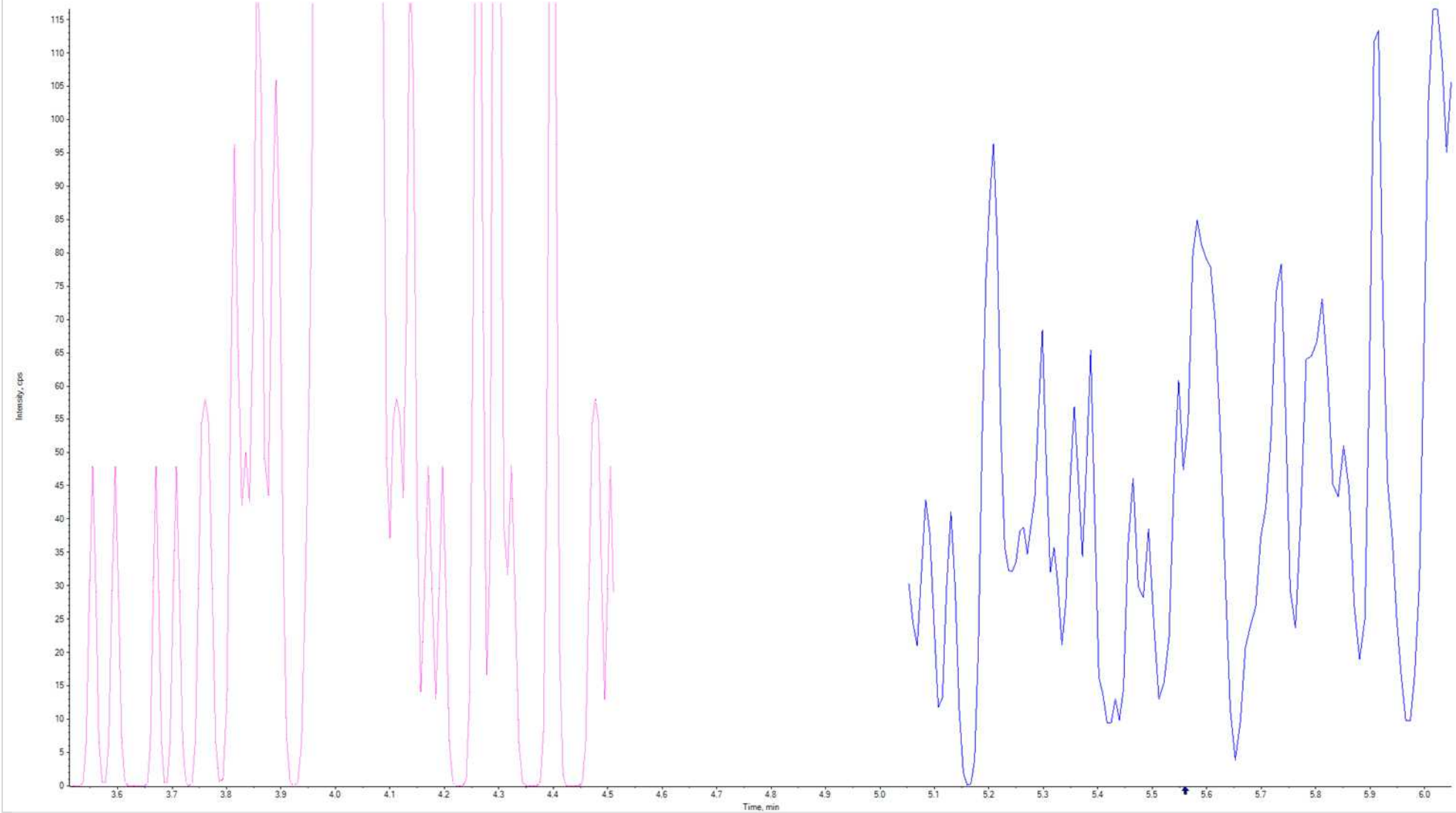
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PFDS_2
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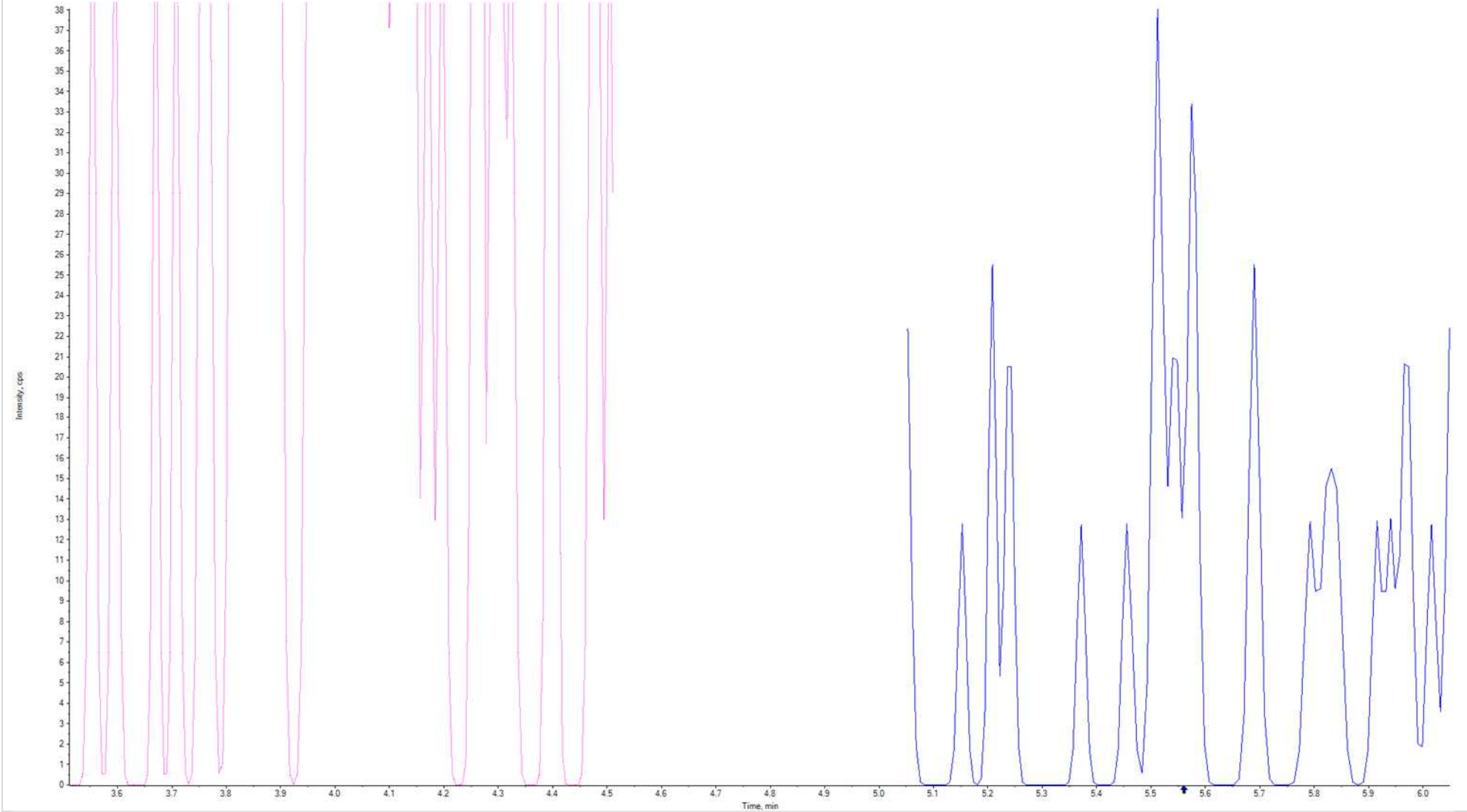
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PFDoS
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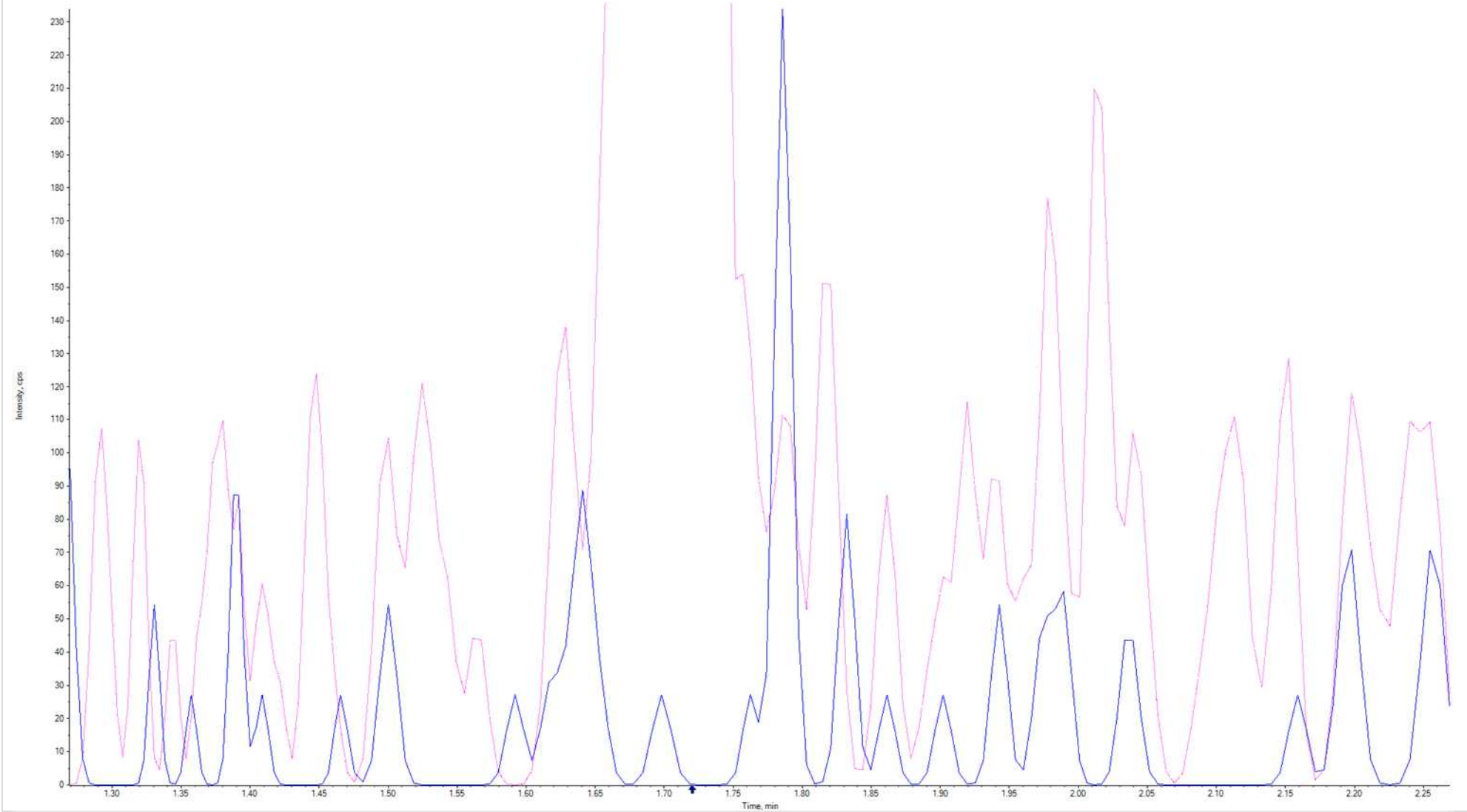
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PFDoS_2
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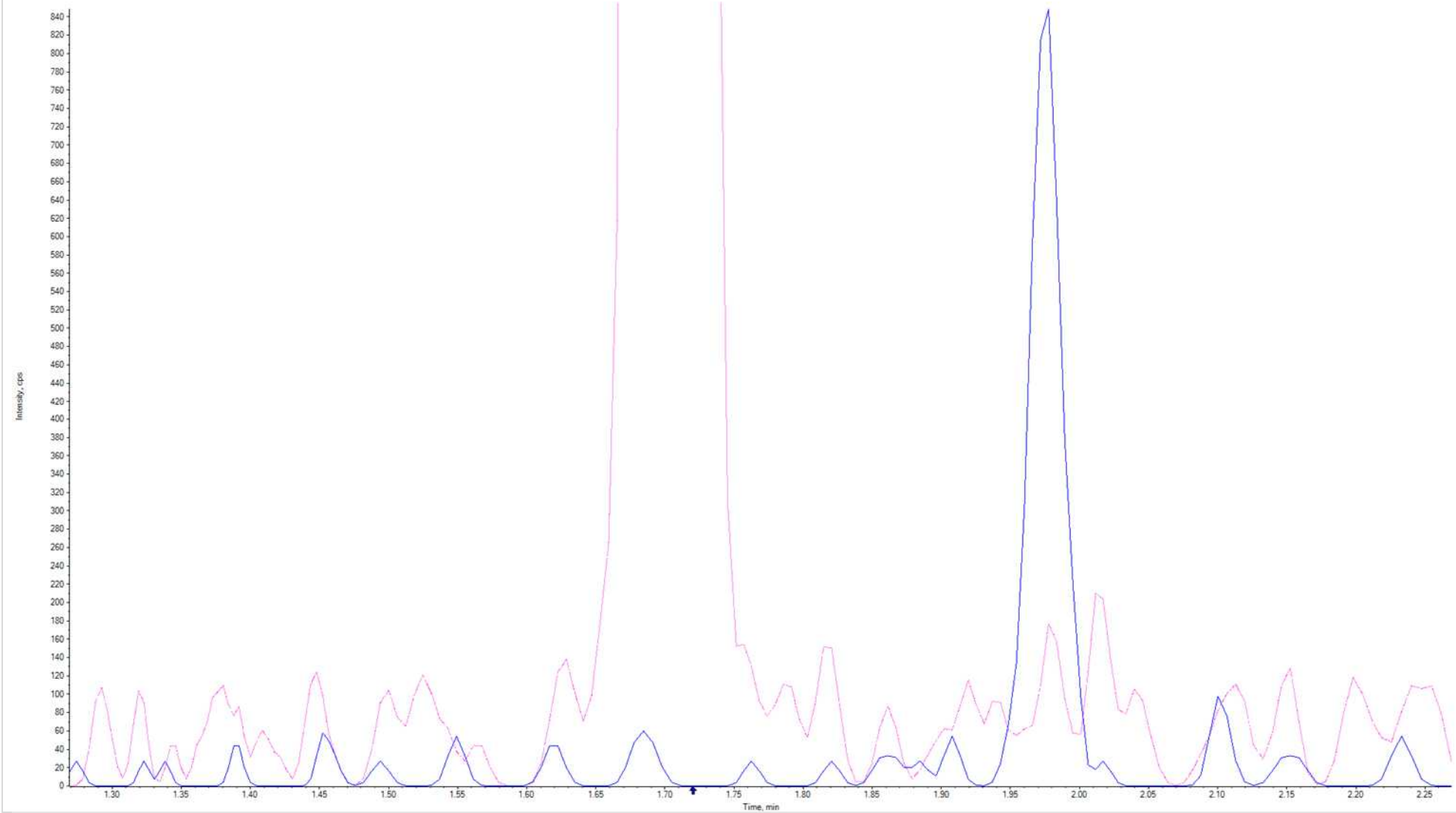
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4:2FTS
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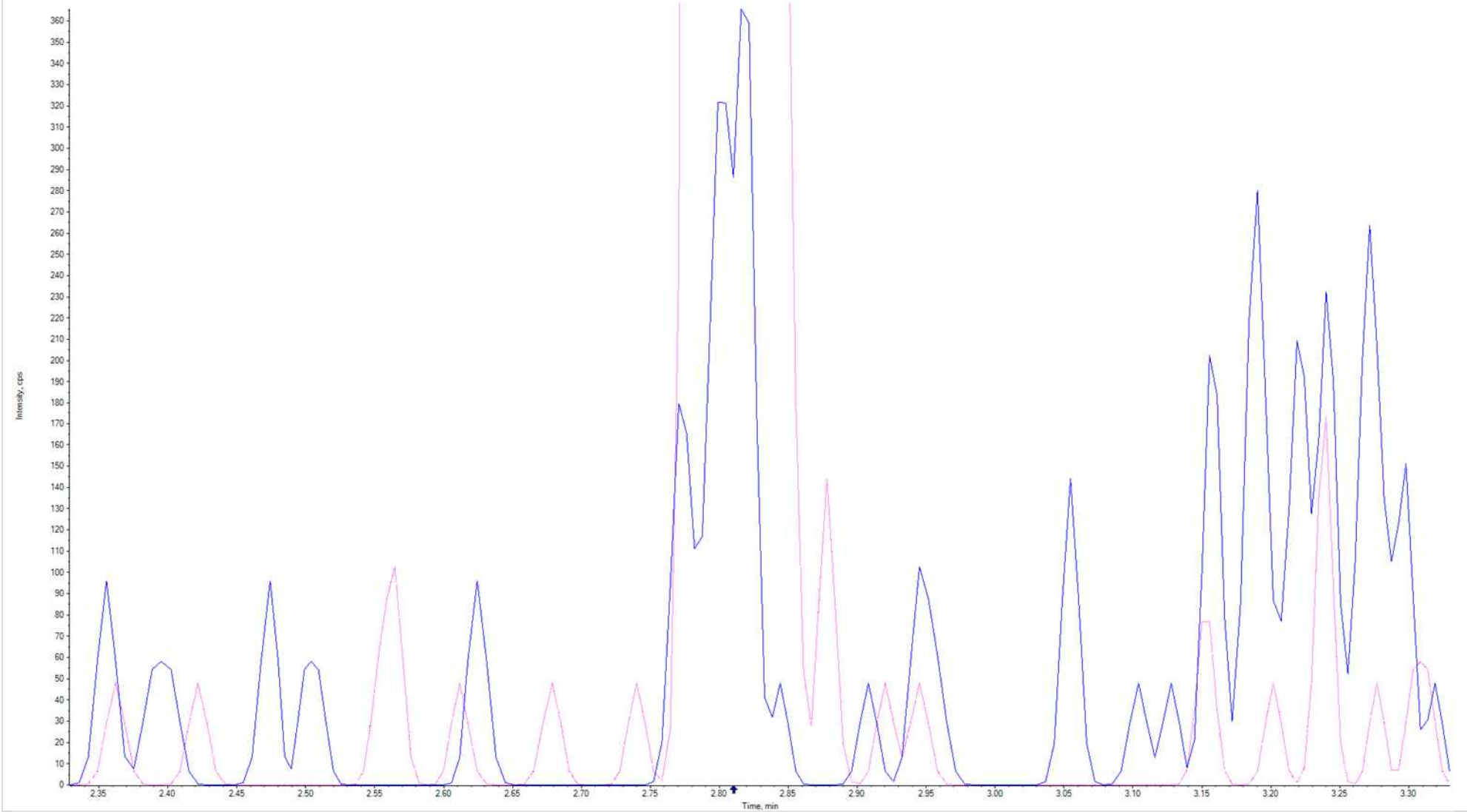
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4:2FTS_2
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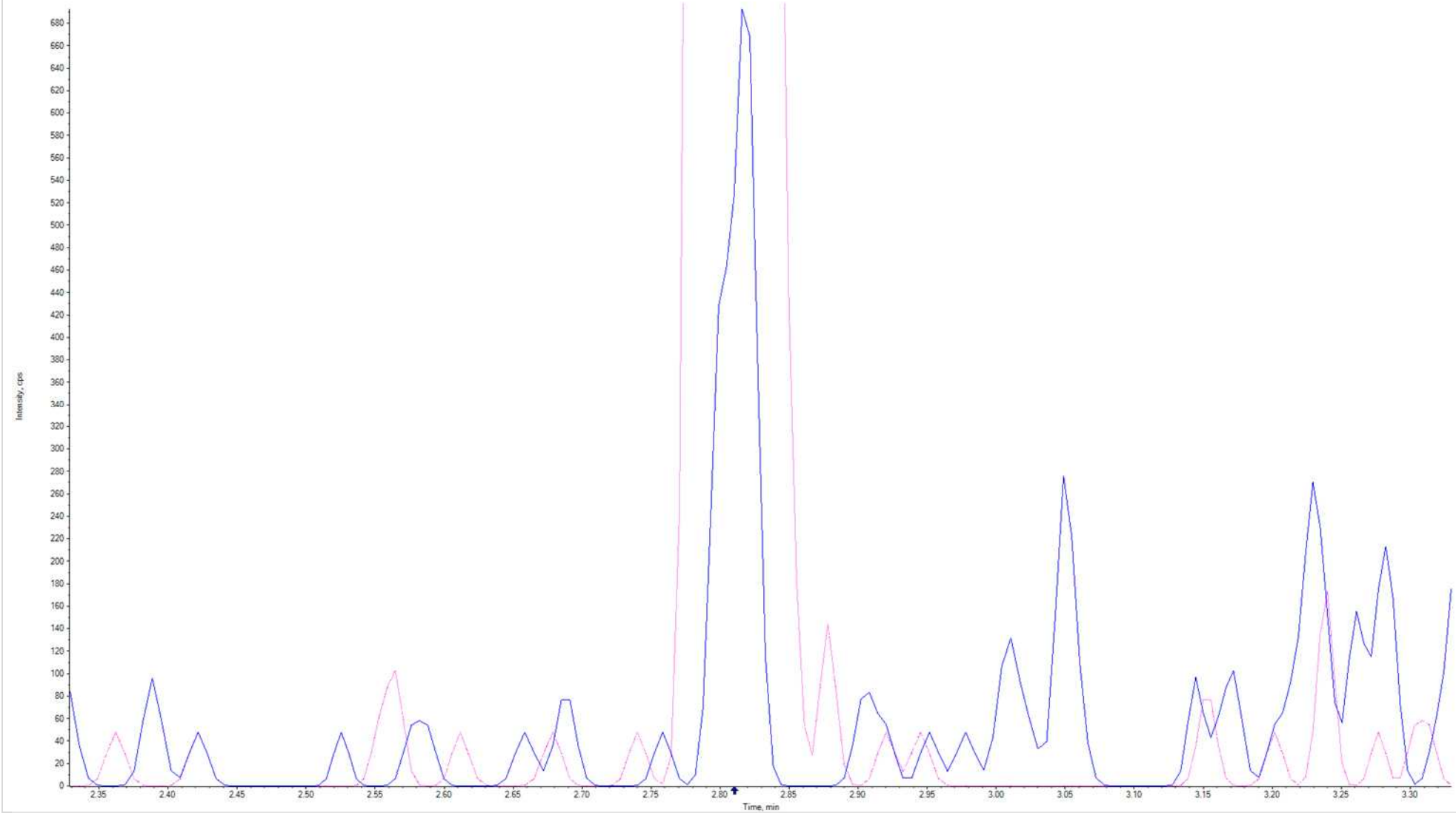
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6:2FTS
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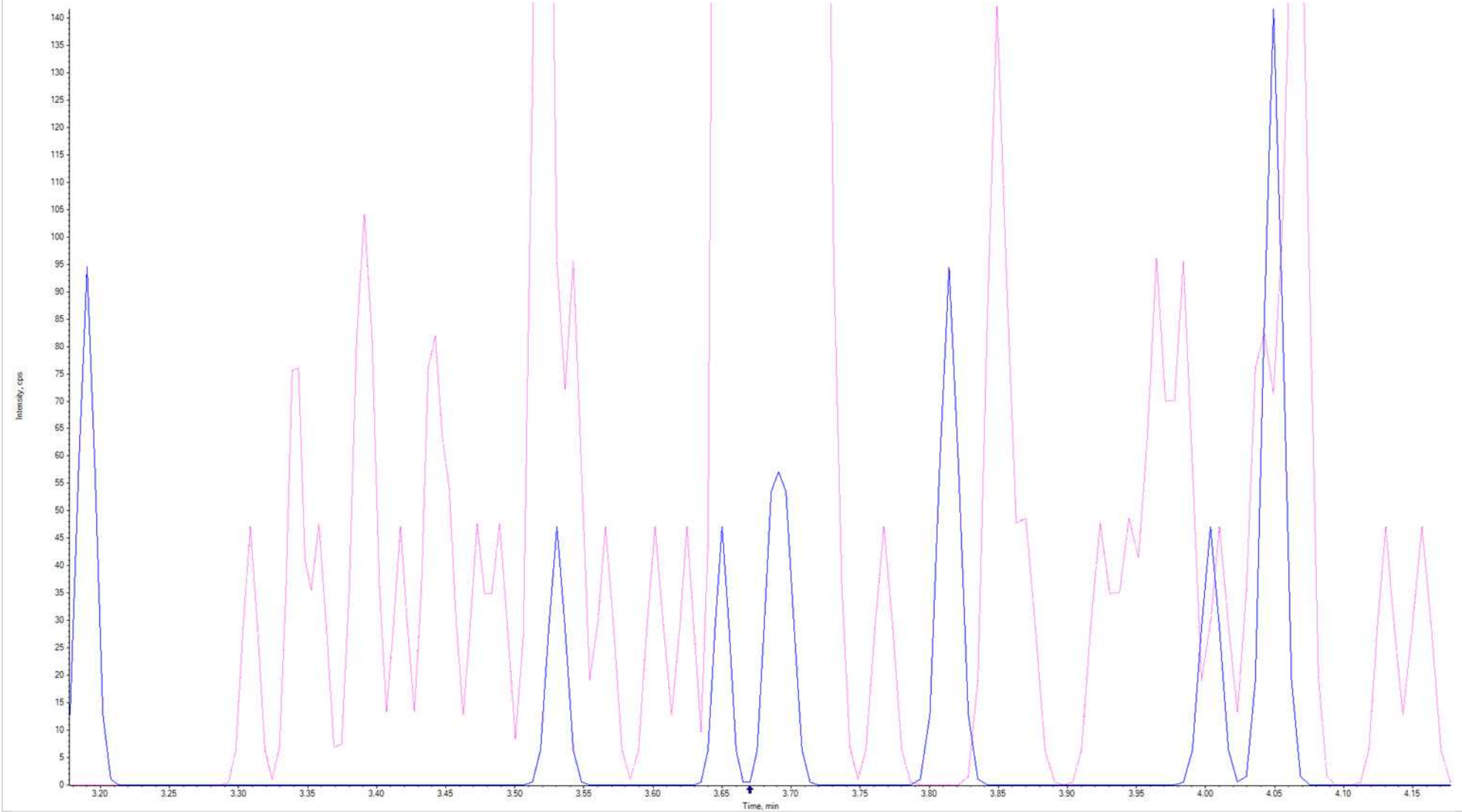
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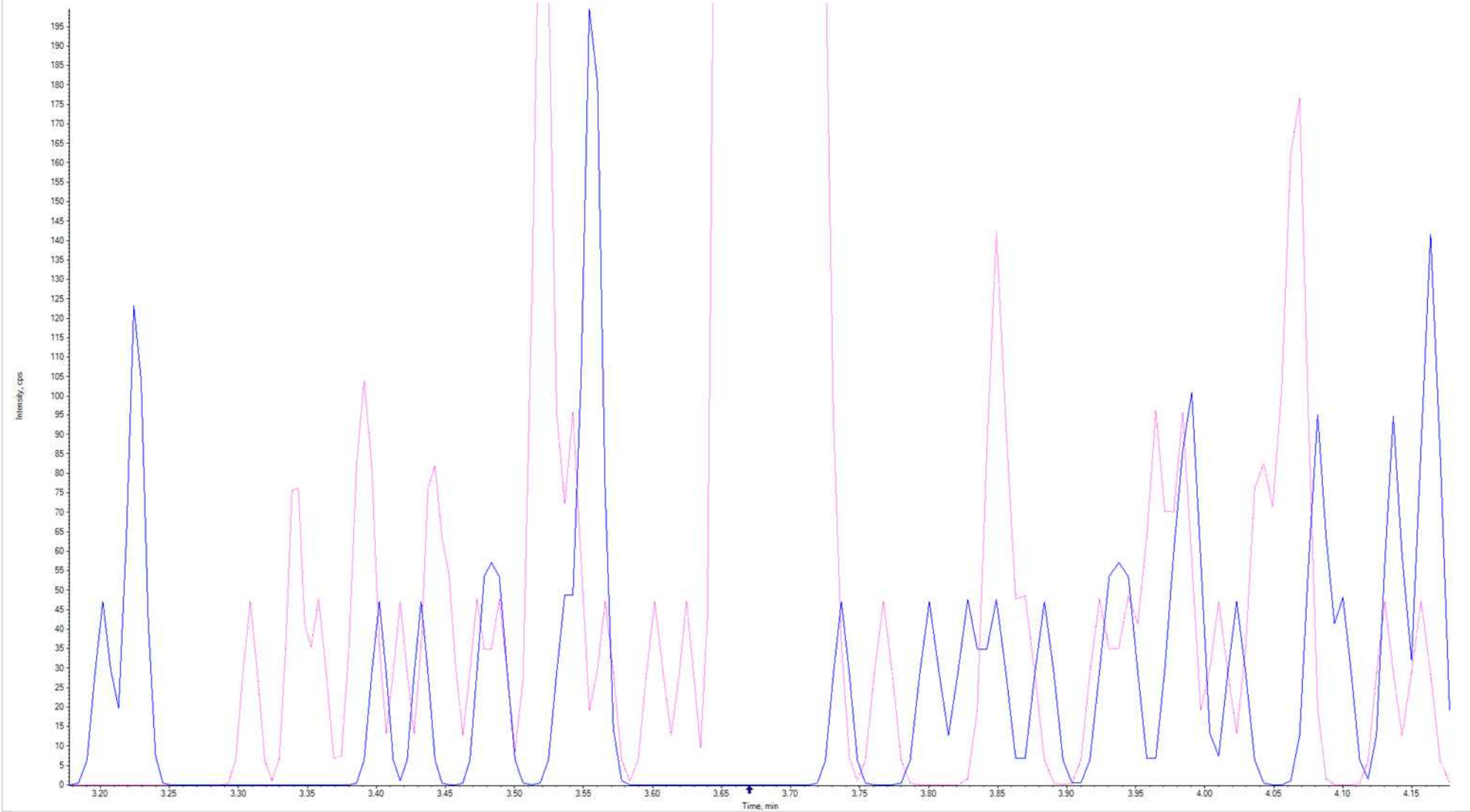
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8:2FTS
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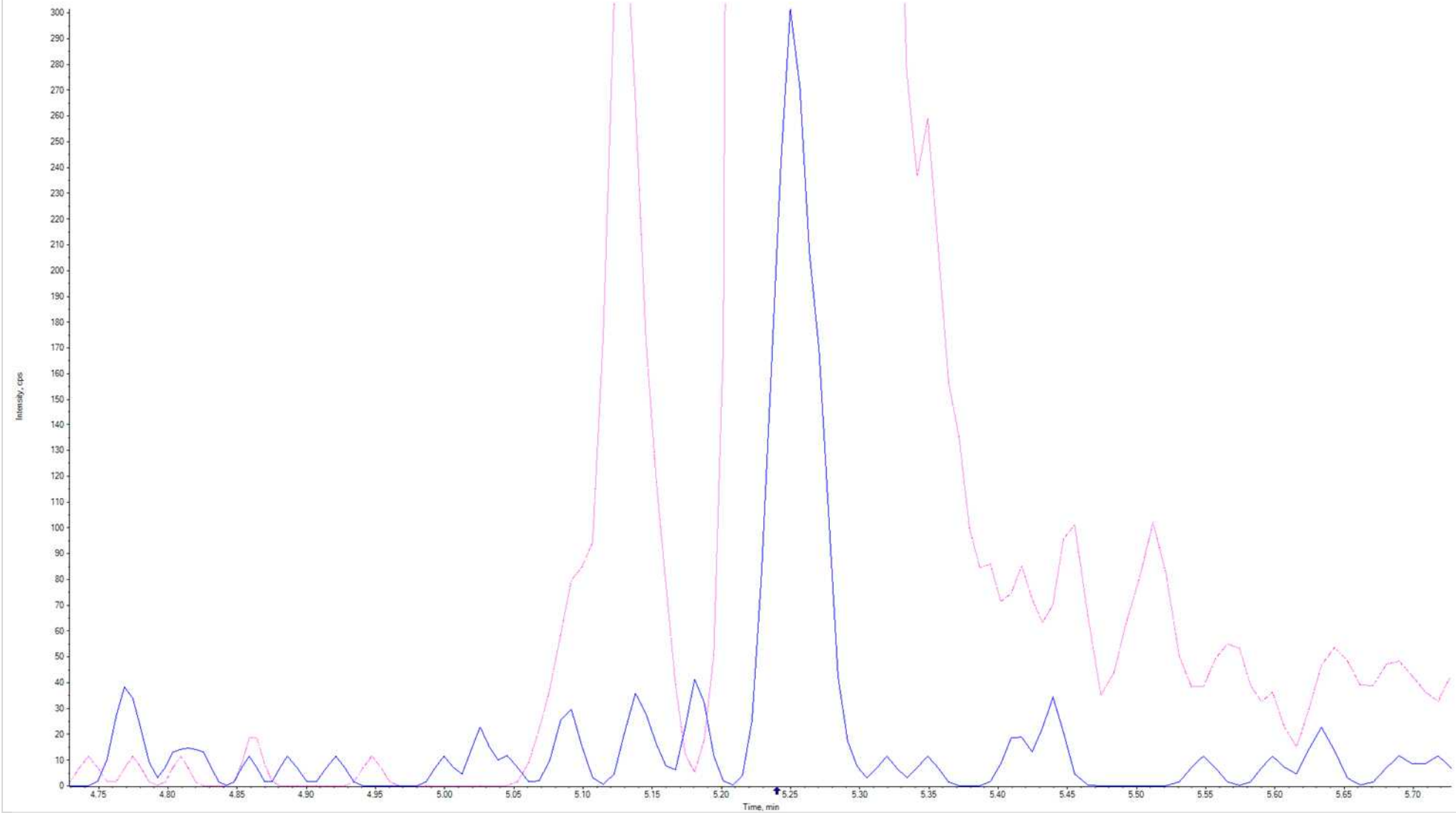
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8:2FTS_2
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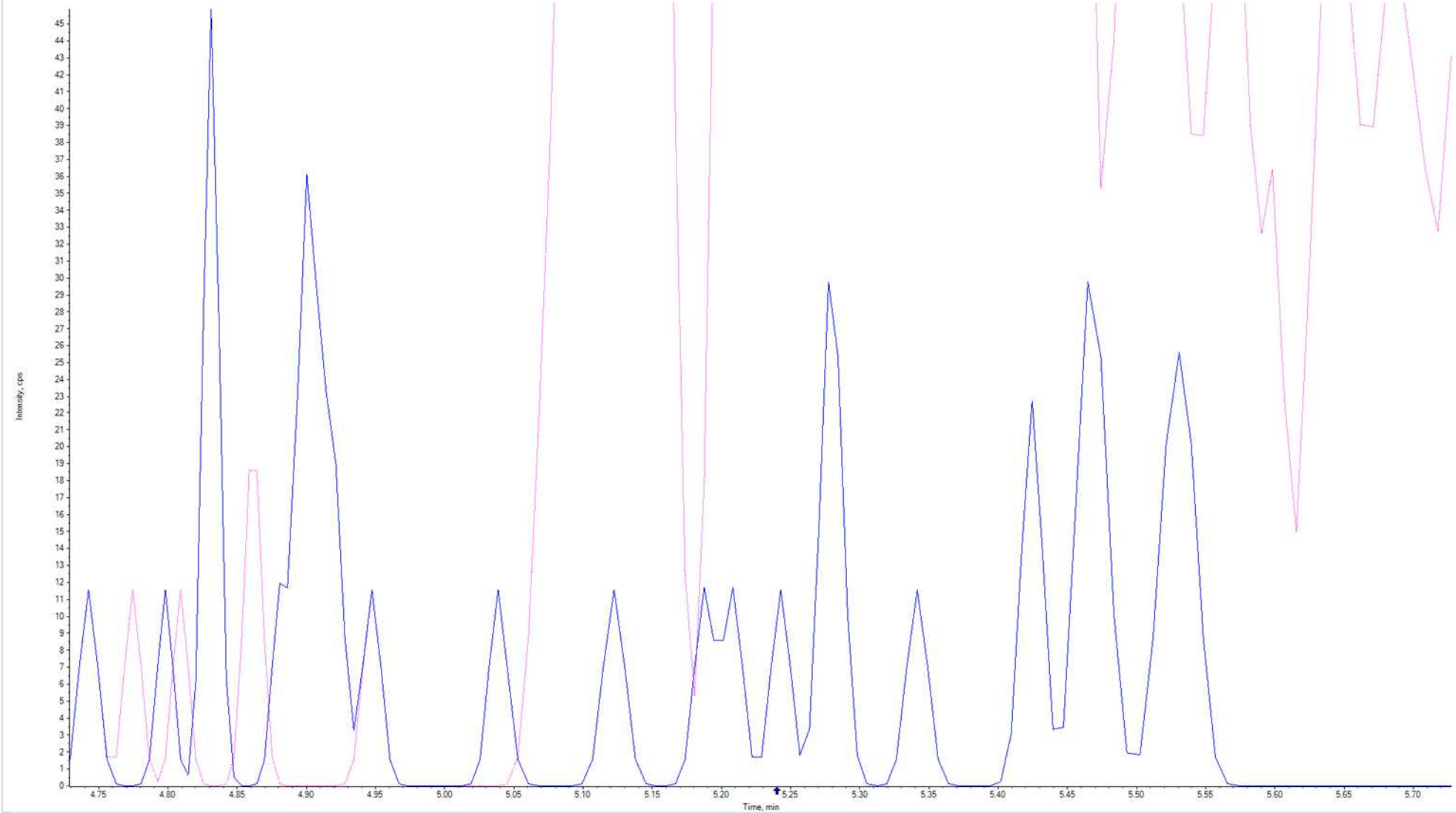
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PFOSA
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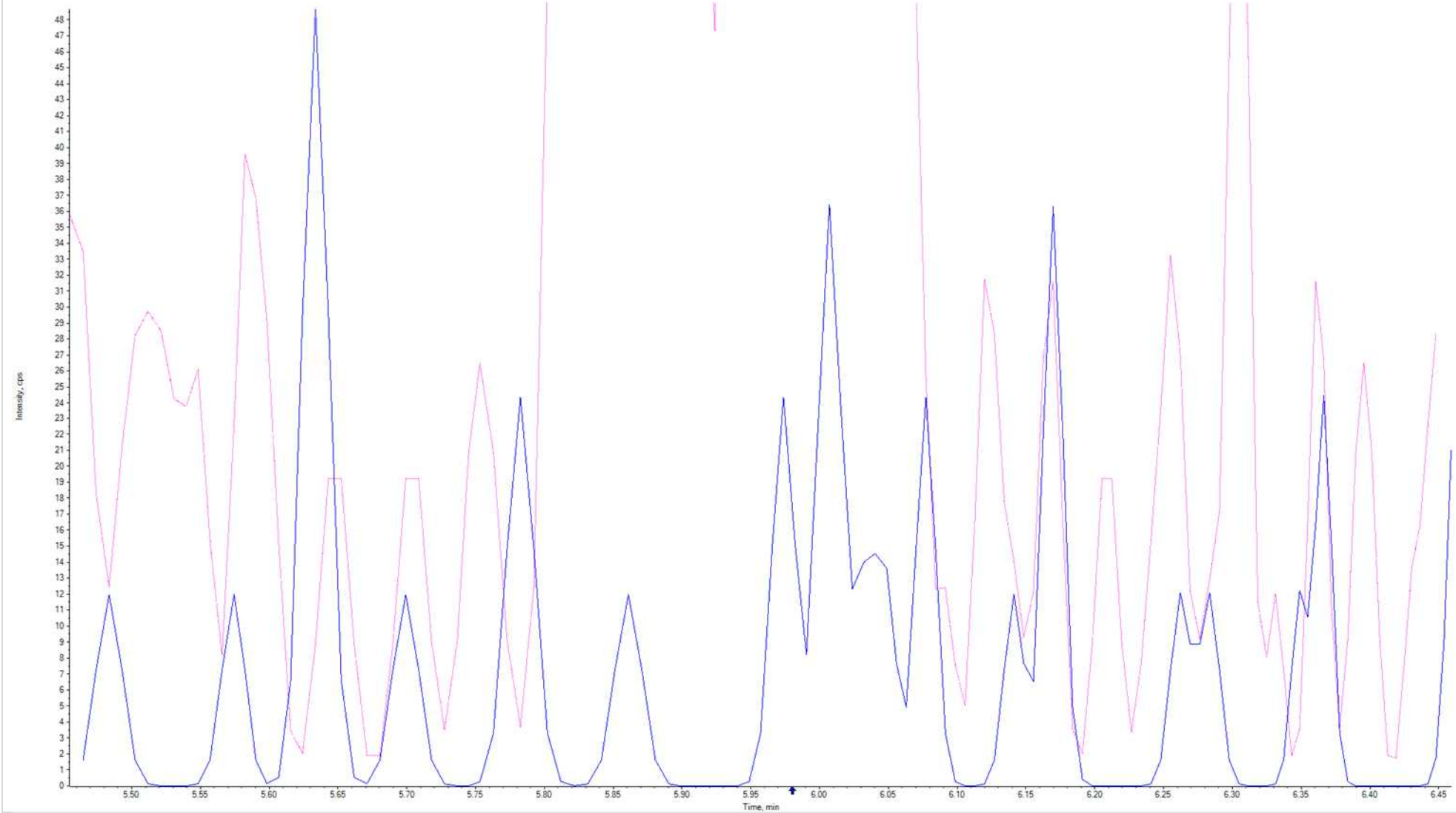
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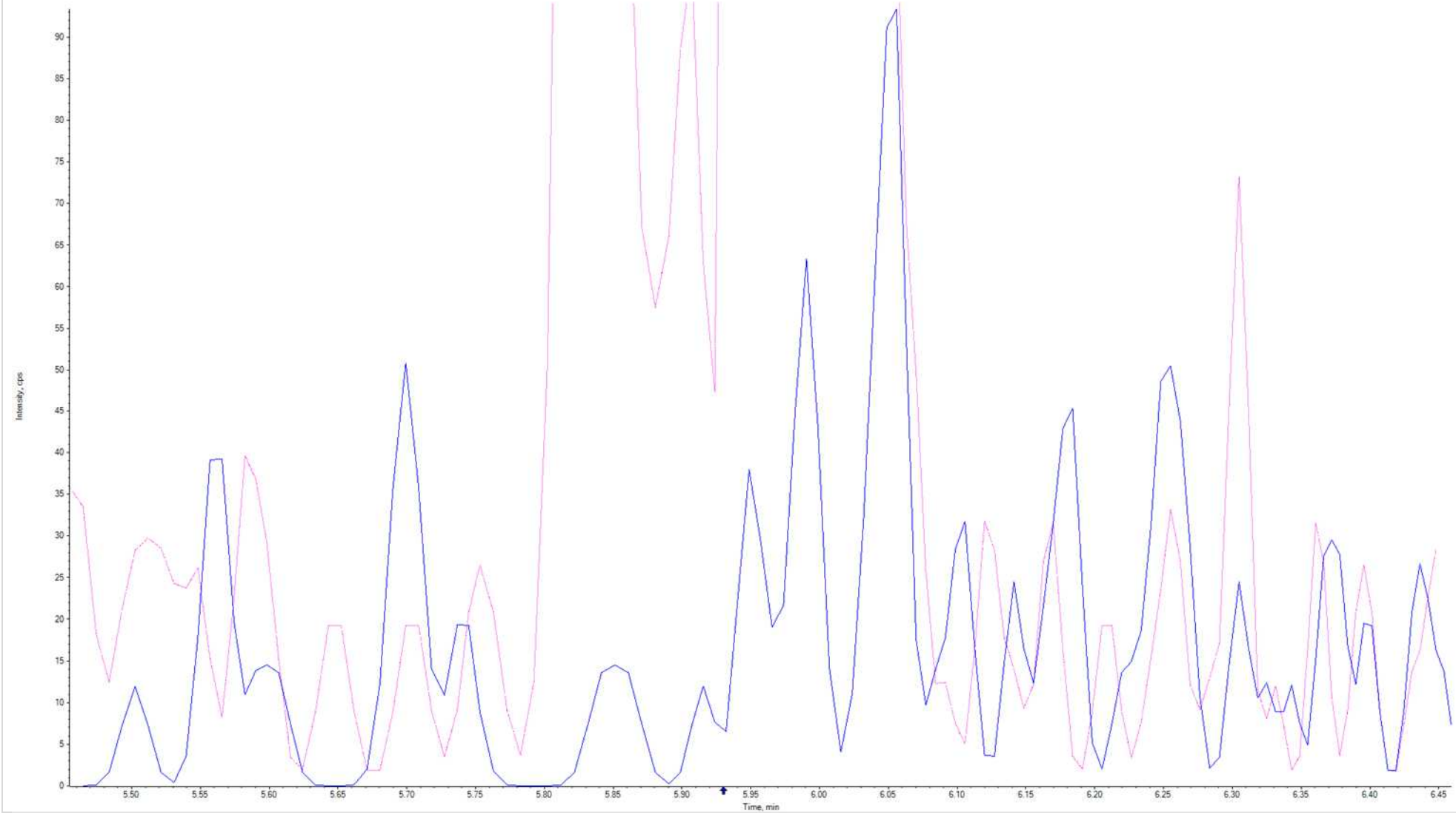
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NMeFOSA
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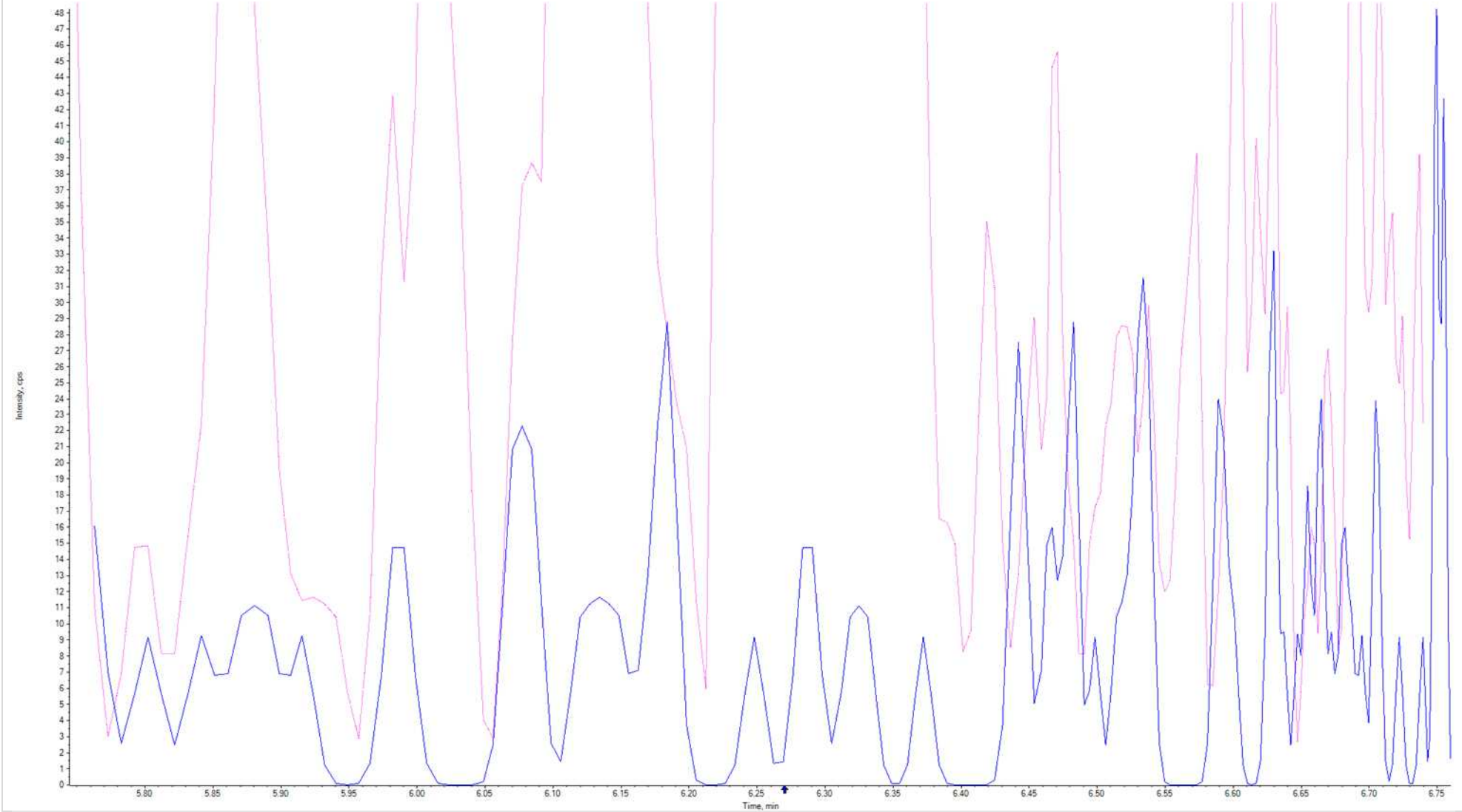
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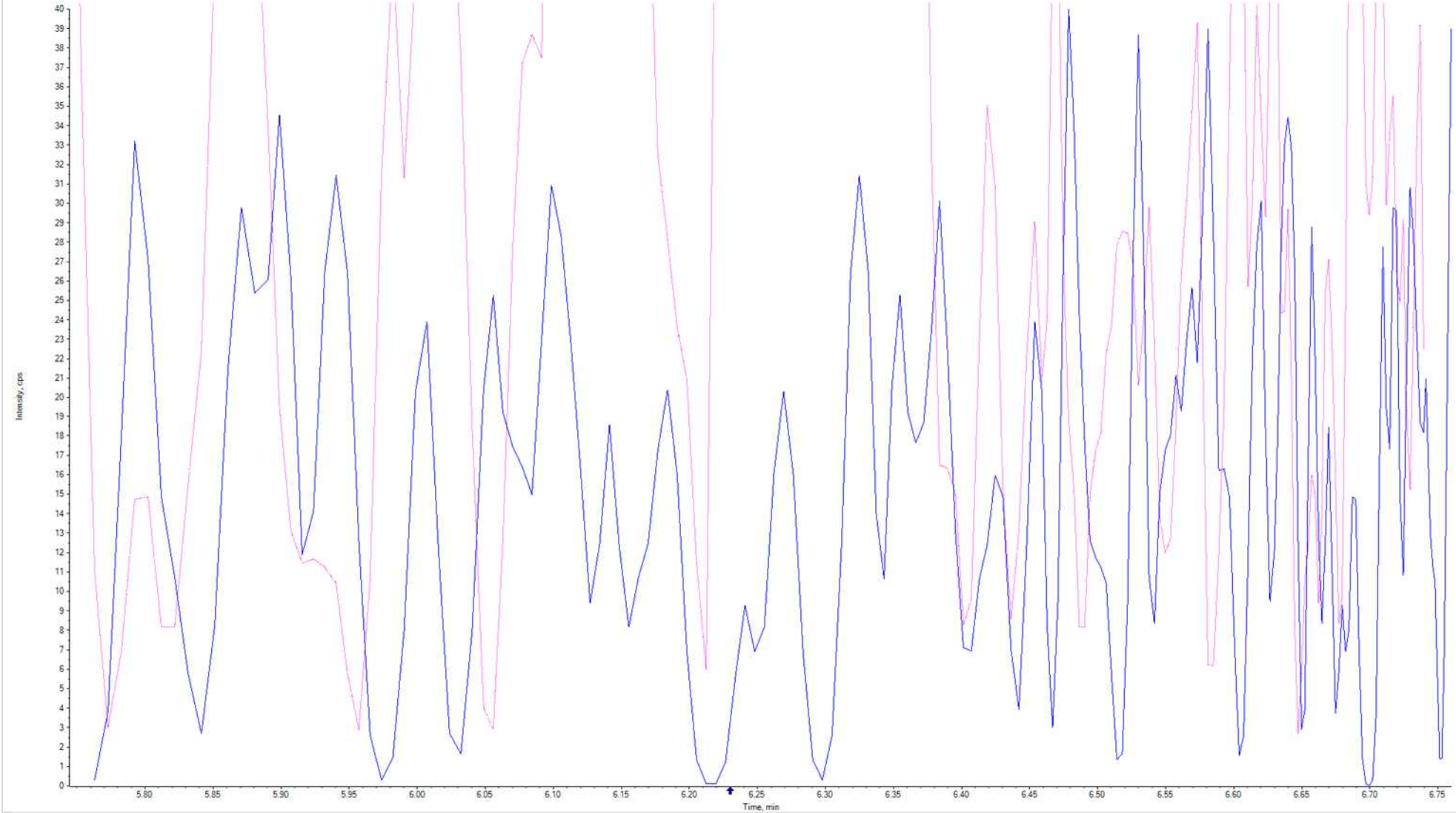
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NEtFOSA
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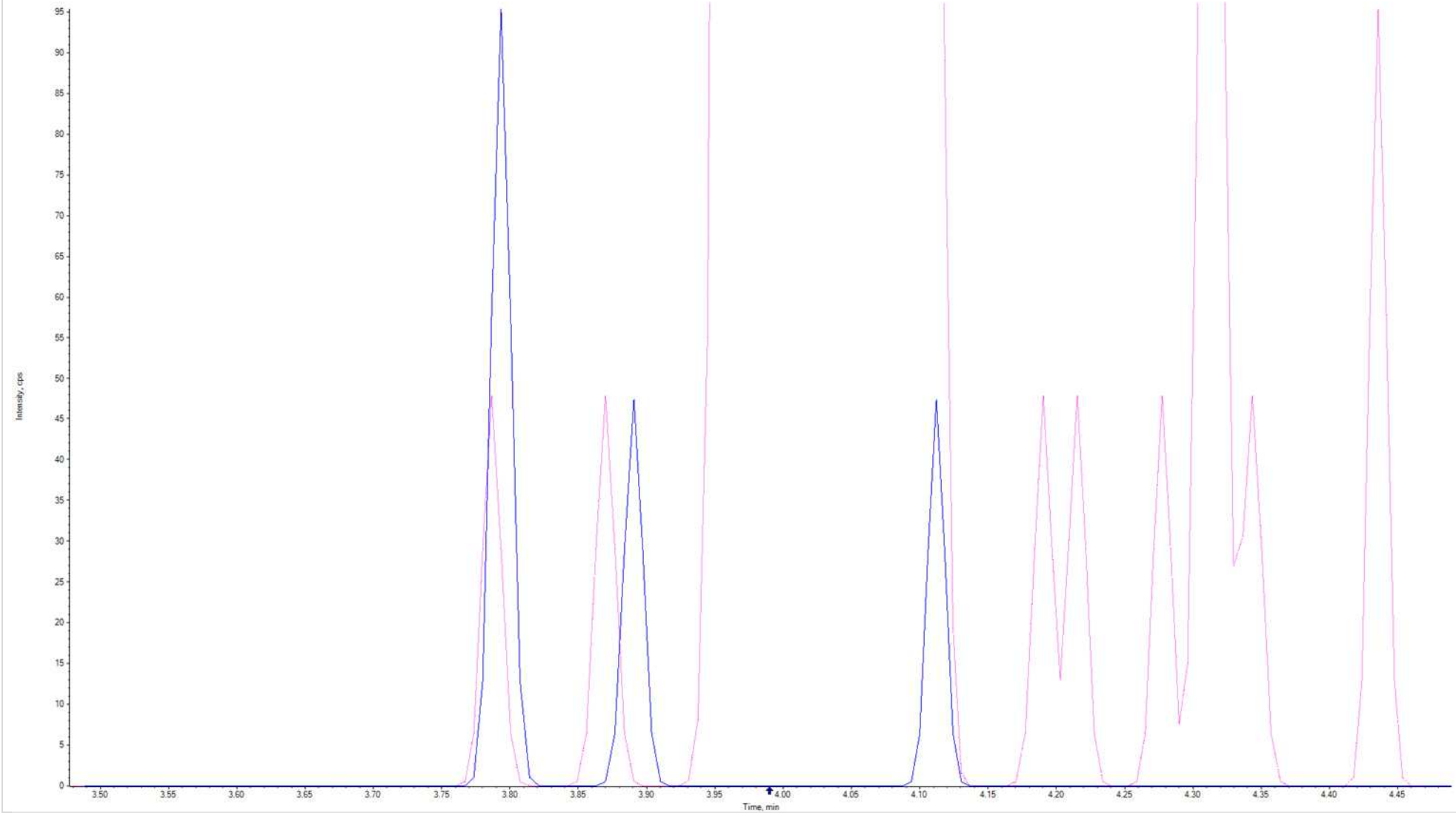
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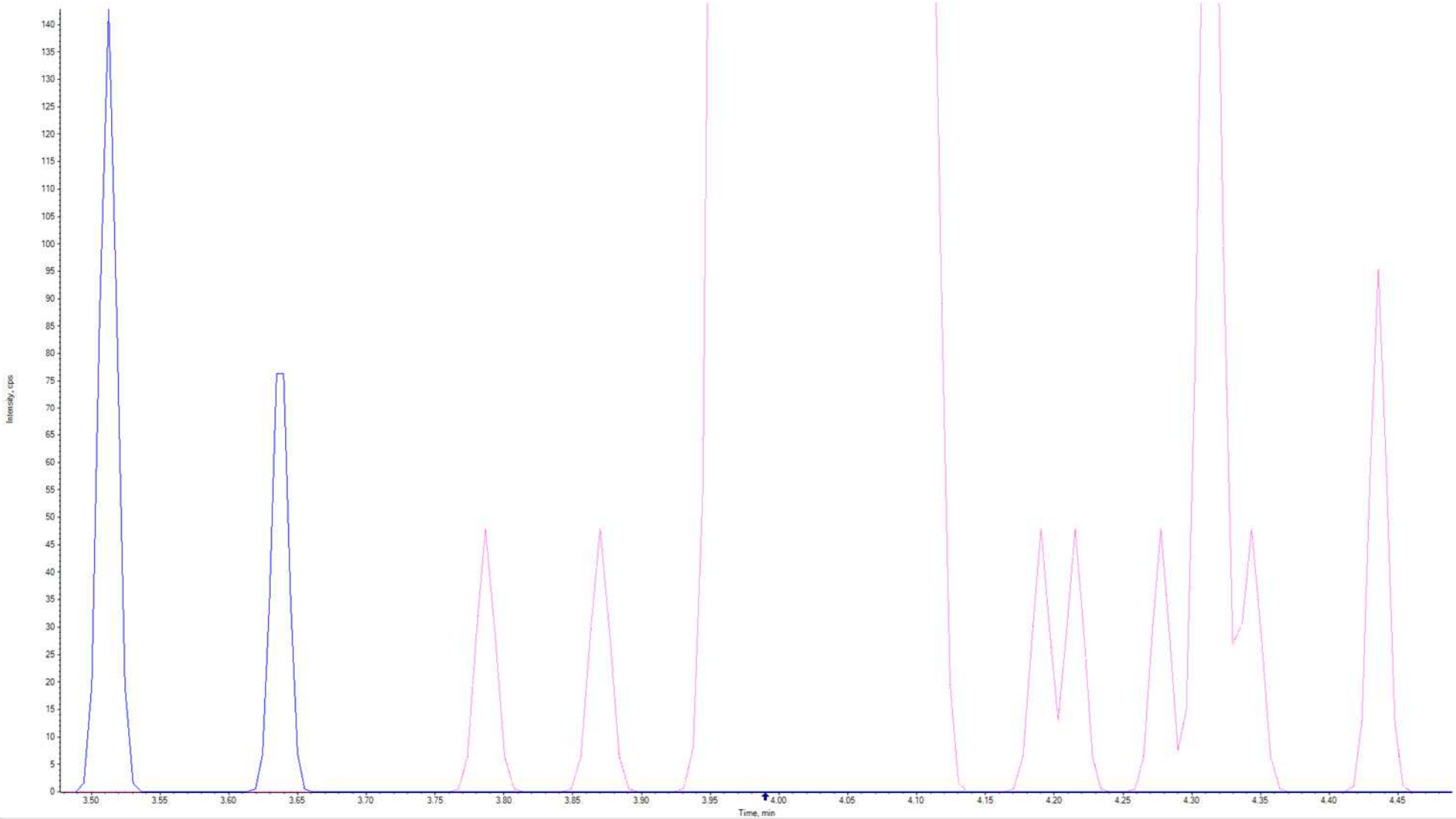


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NMeFOSAA
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A

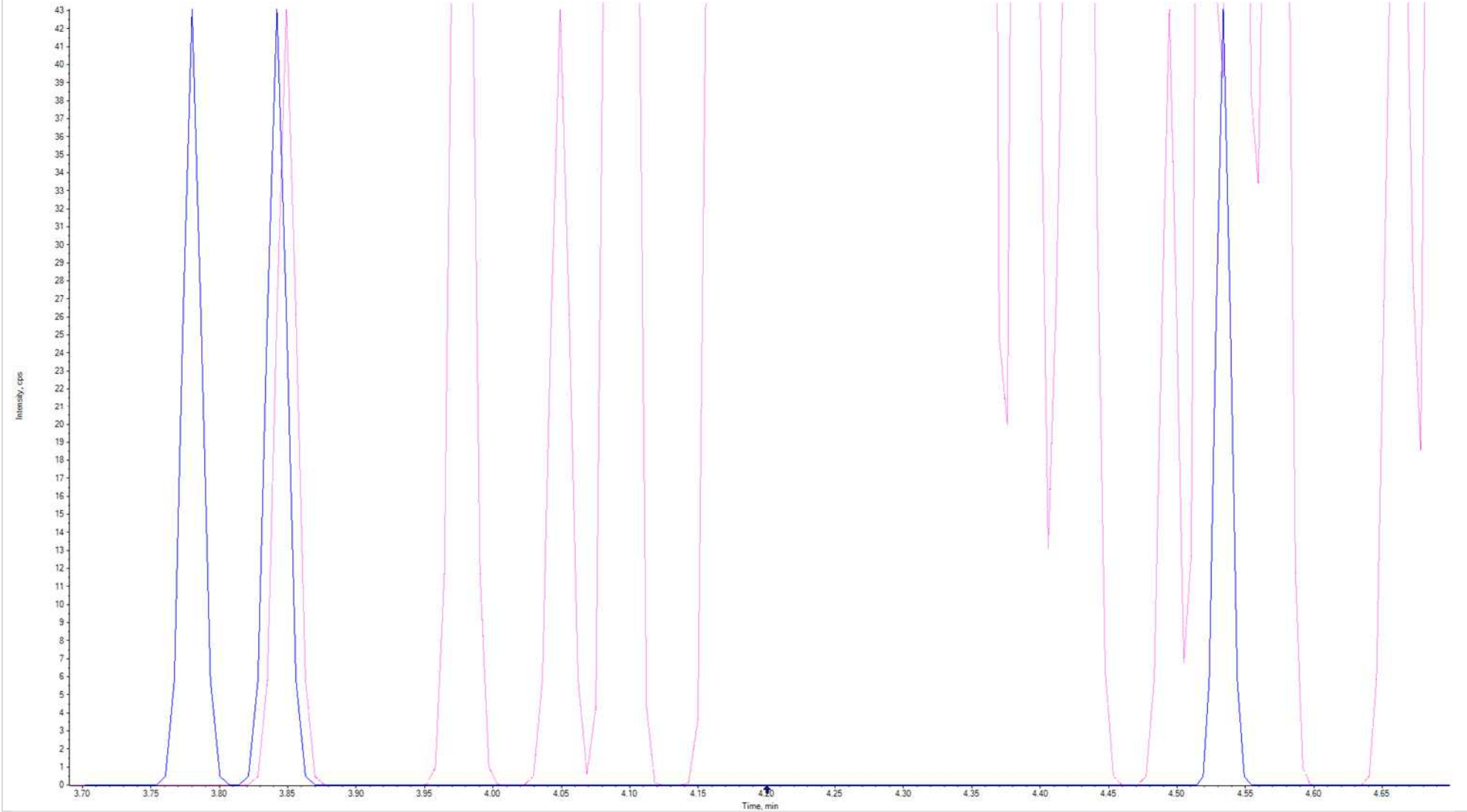


NMeFOSAA_2
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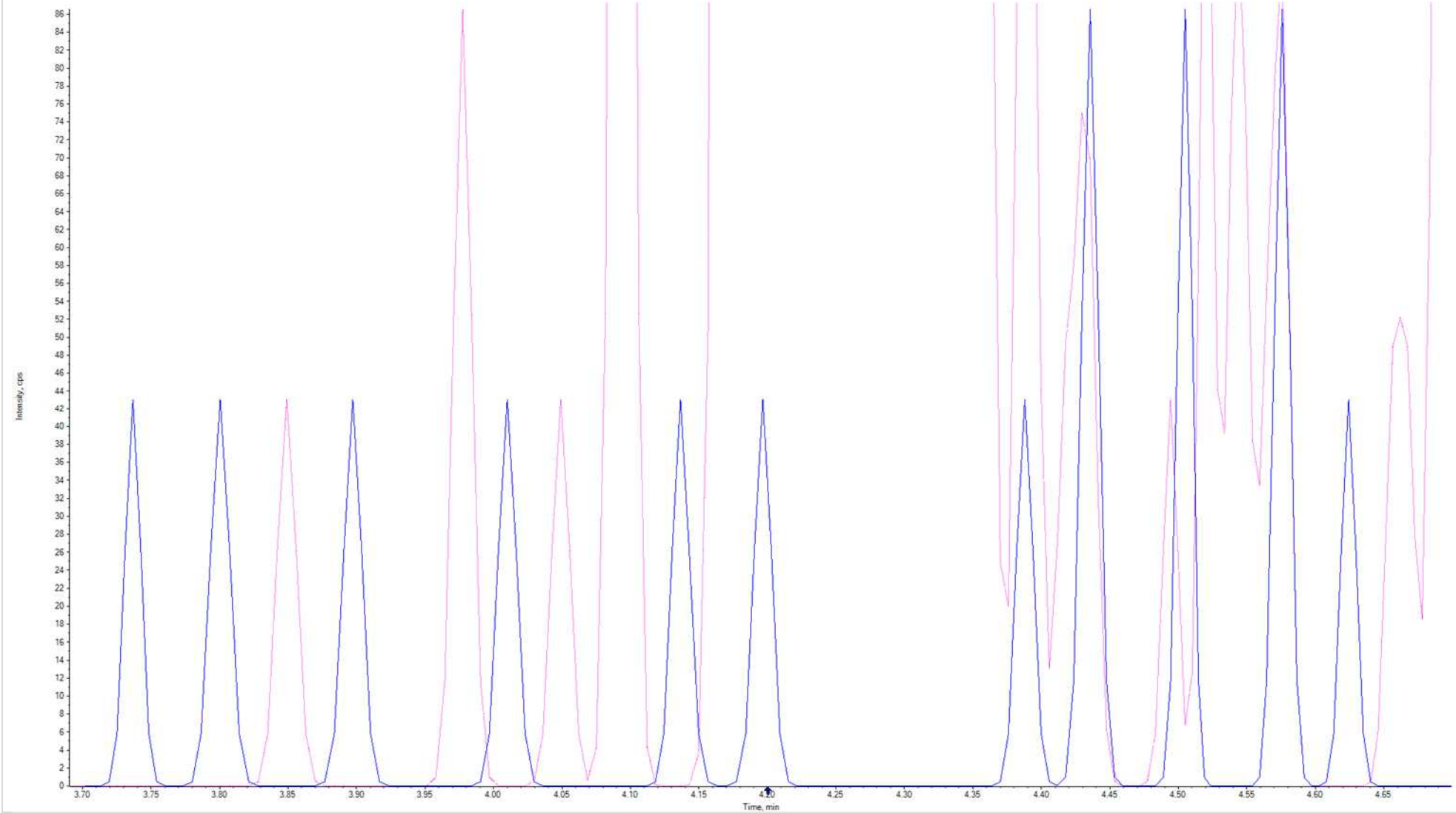
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Alpha Analytical LLC
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NEtFOSAA
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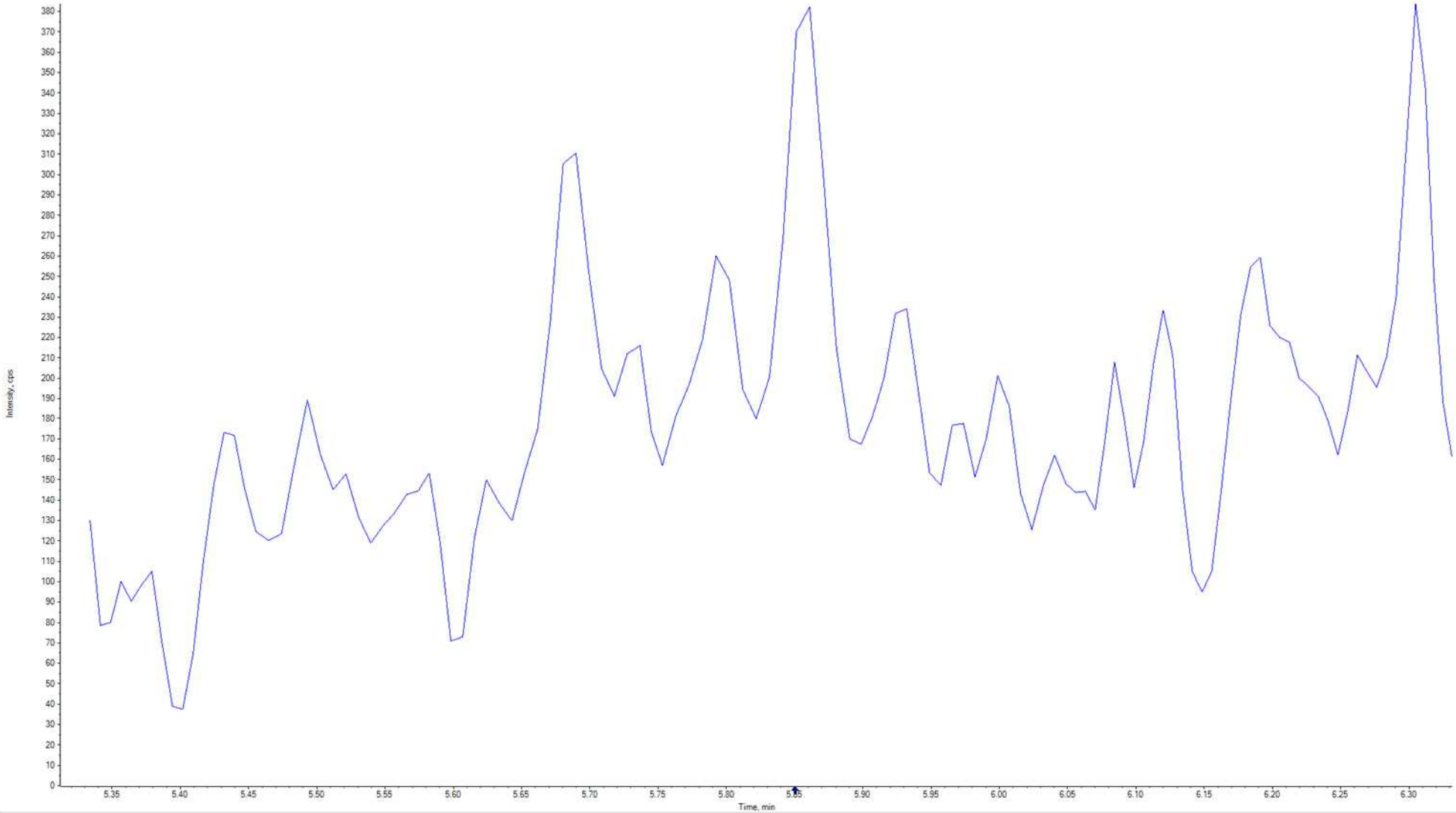
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NEtFOSAA_2
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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NMeFOSE
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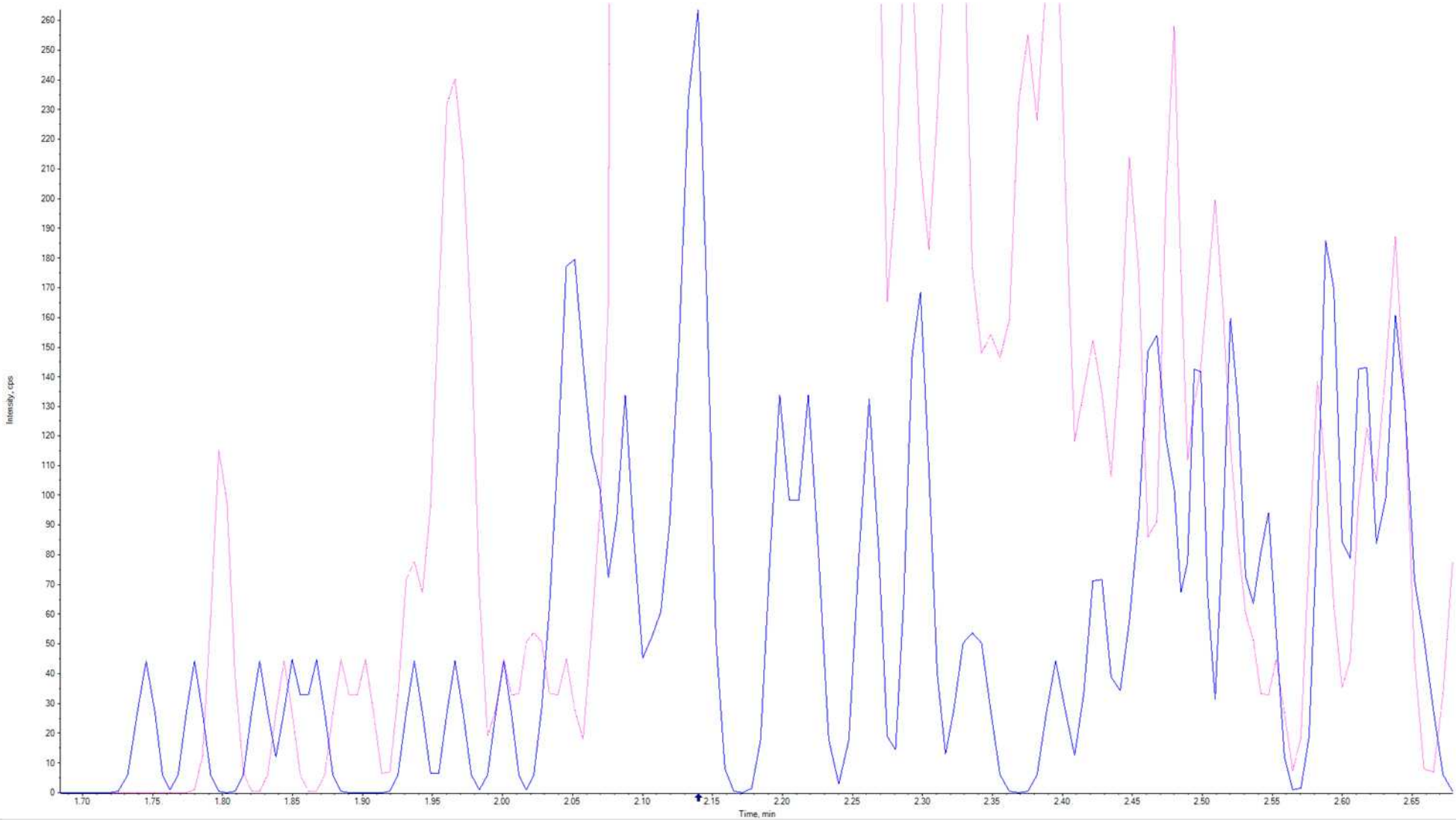
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NEtFOSE
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



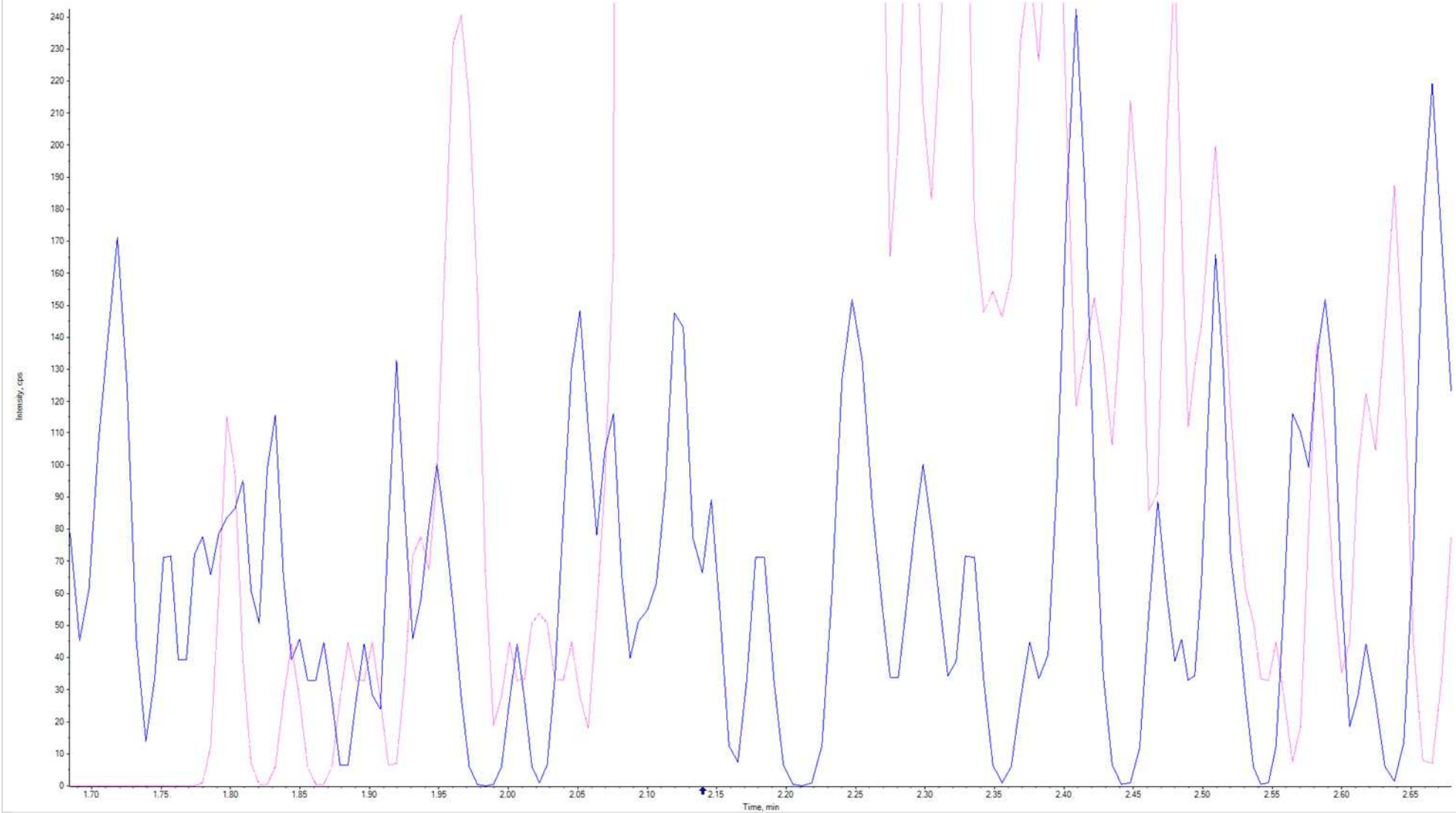
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HFPO-DA
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



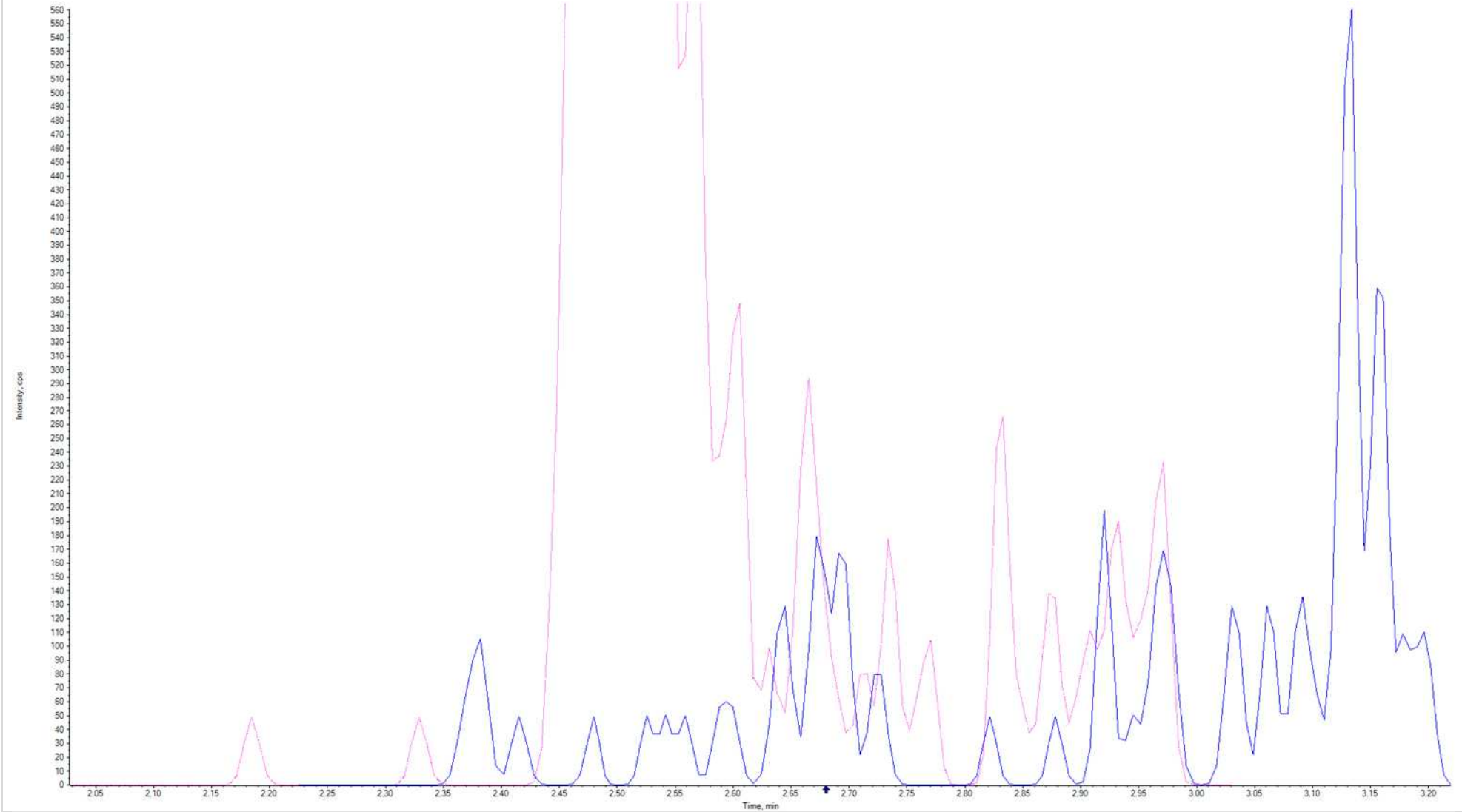
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HFPO-DA_2
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



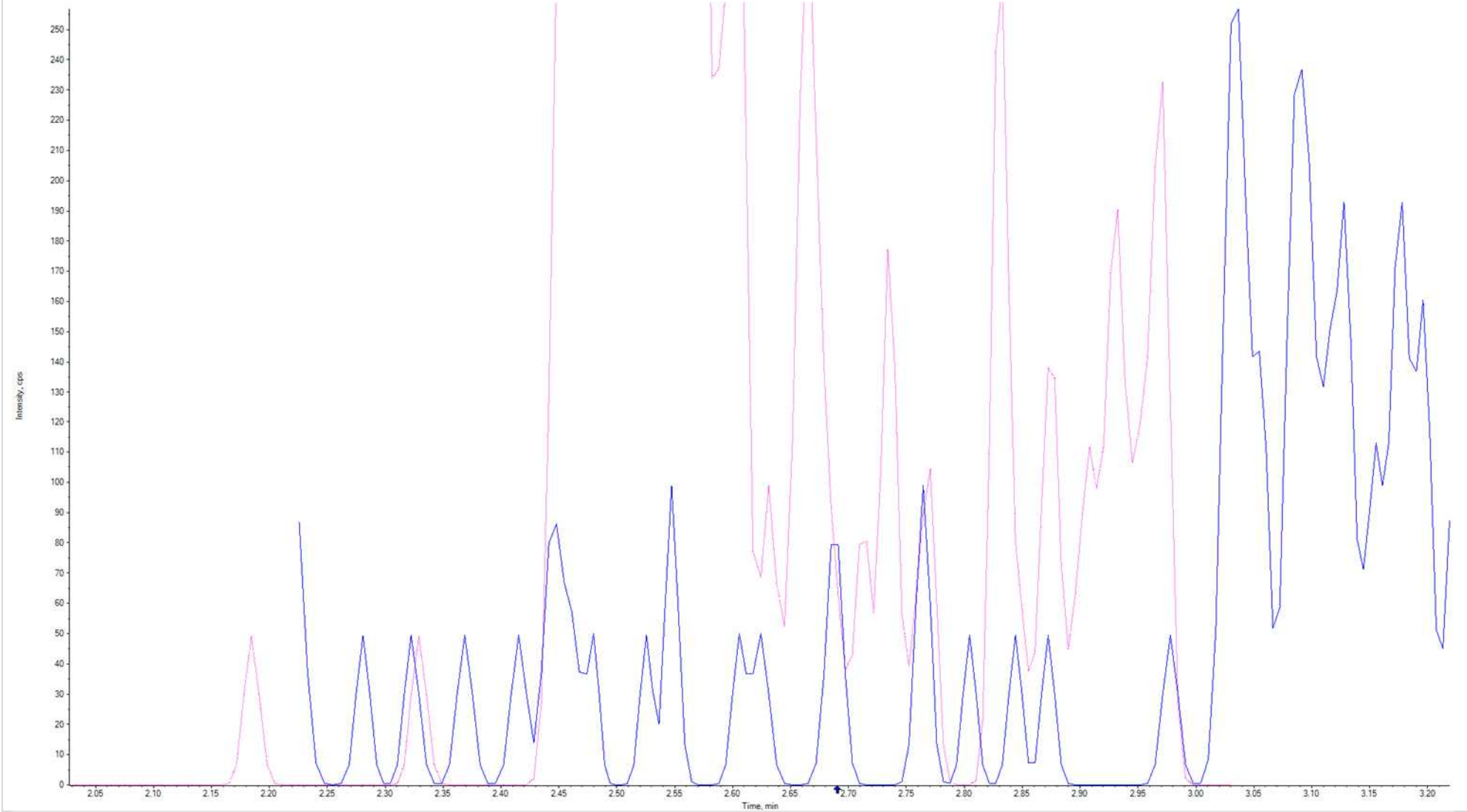
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ADONA
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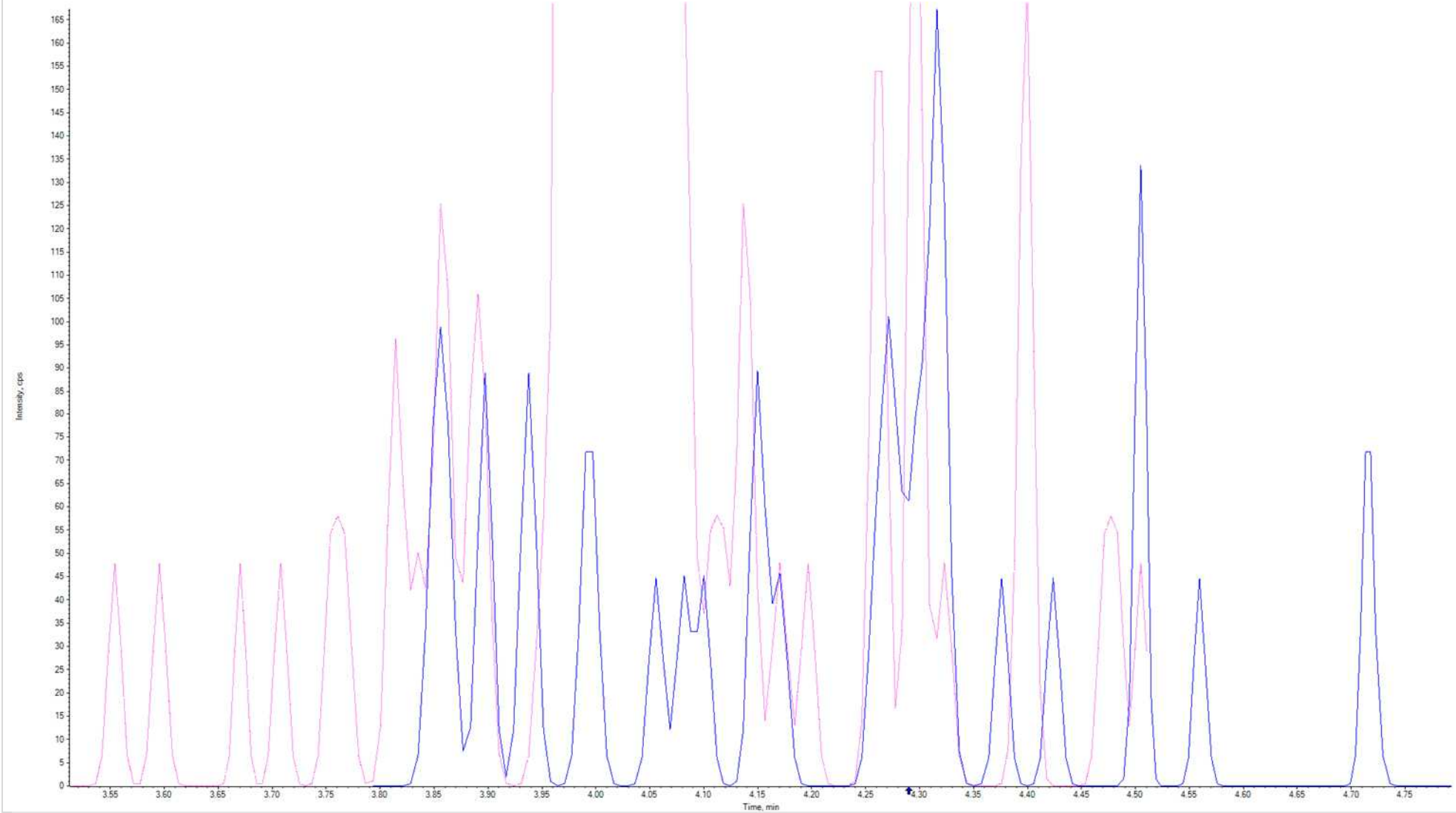
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ADONA_2
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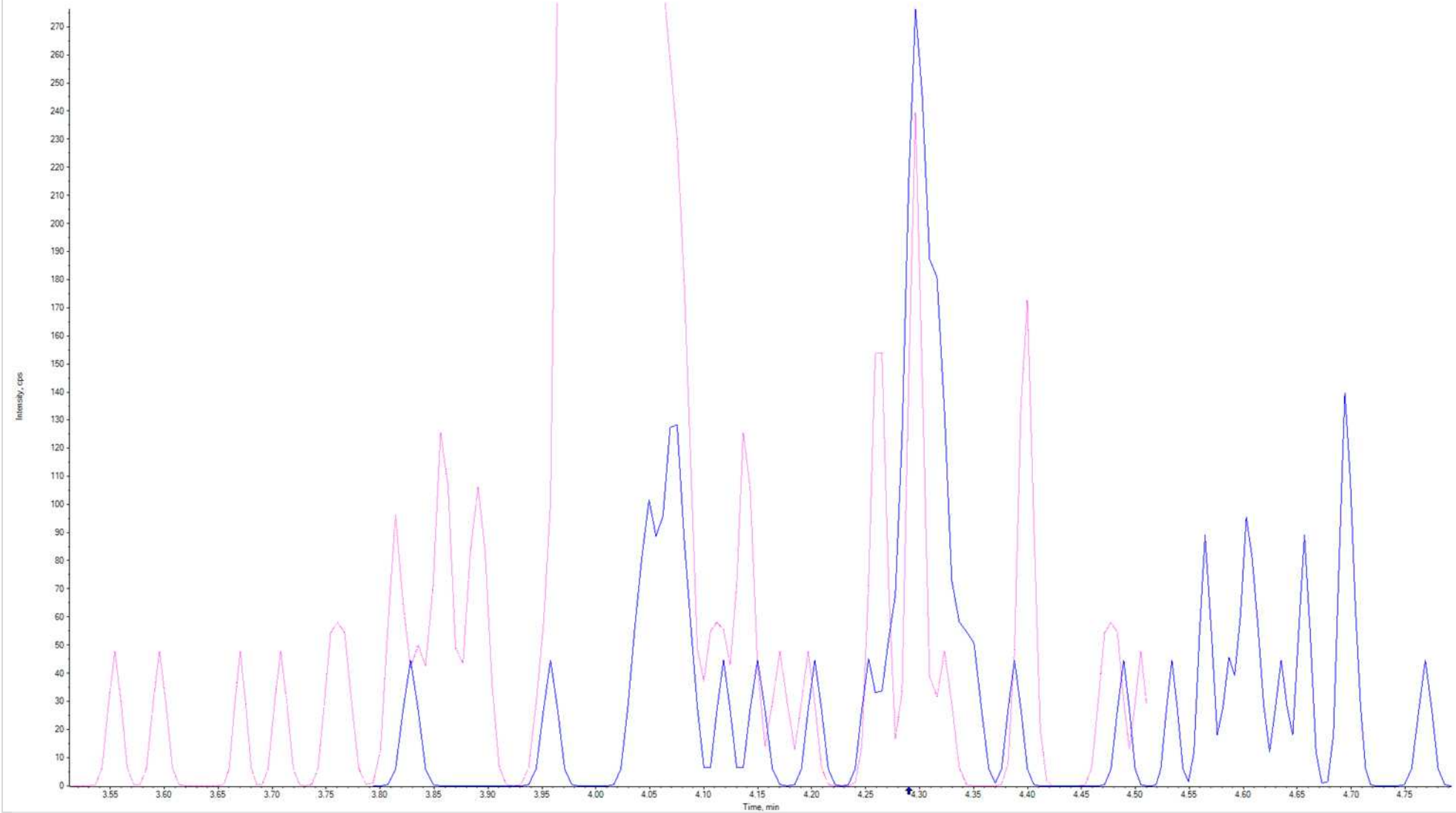
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9Cl-PF3ONS
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



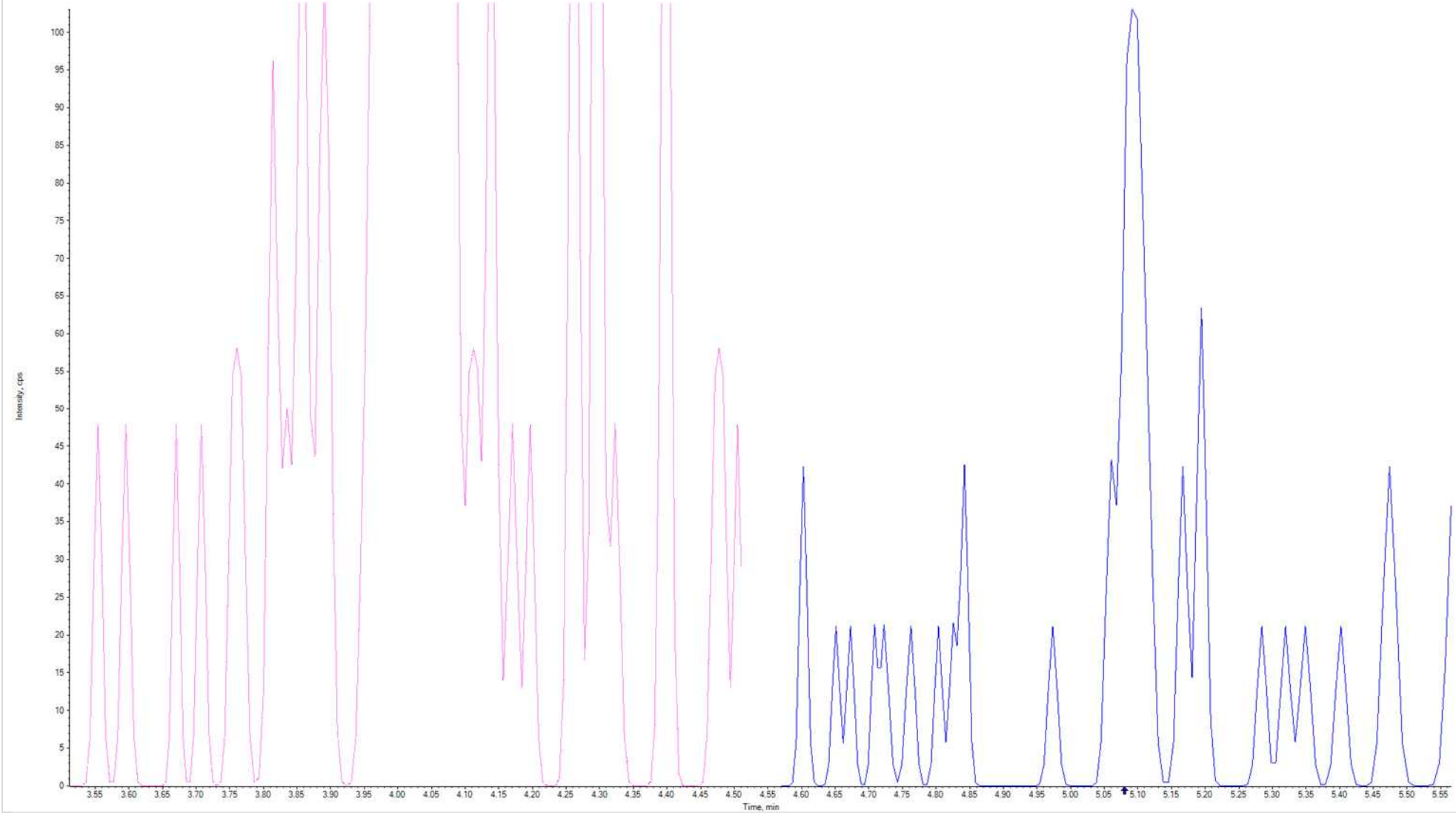
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9Cl-PF3ONS_2
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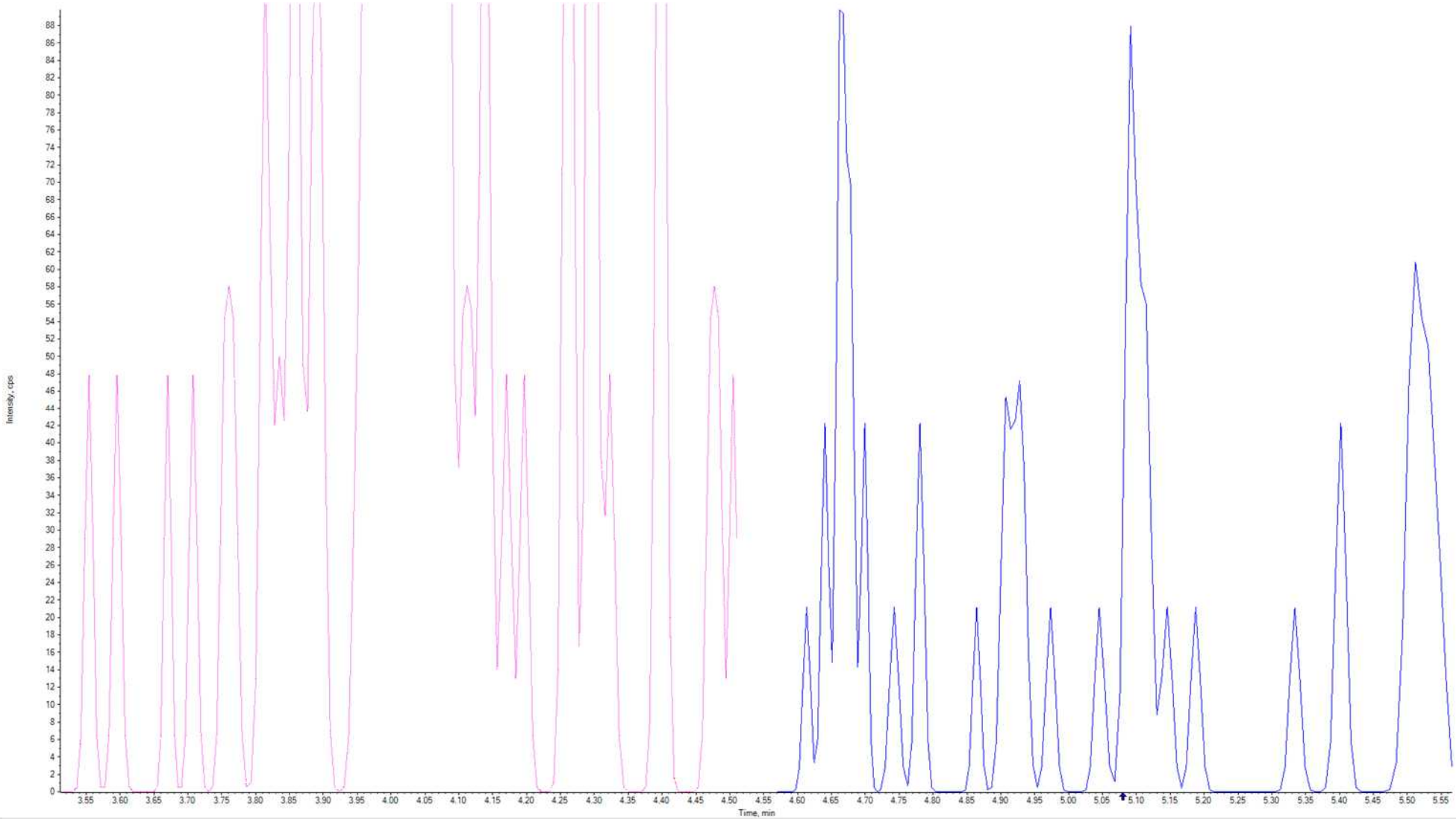
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11Cl-PF3OUdS
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



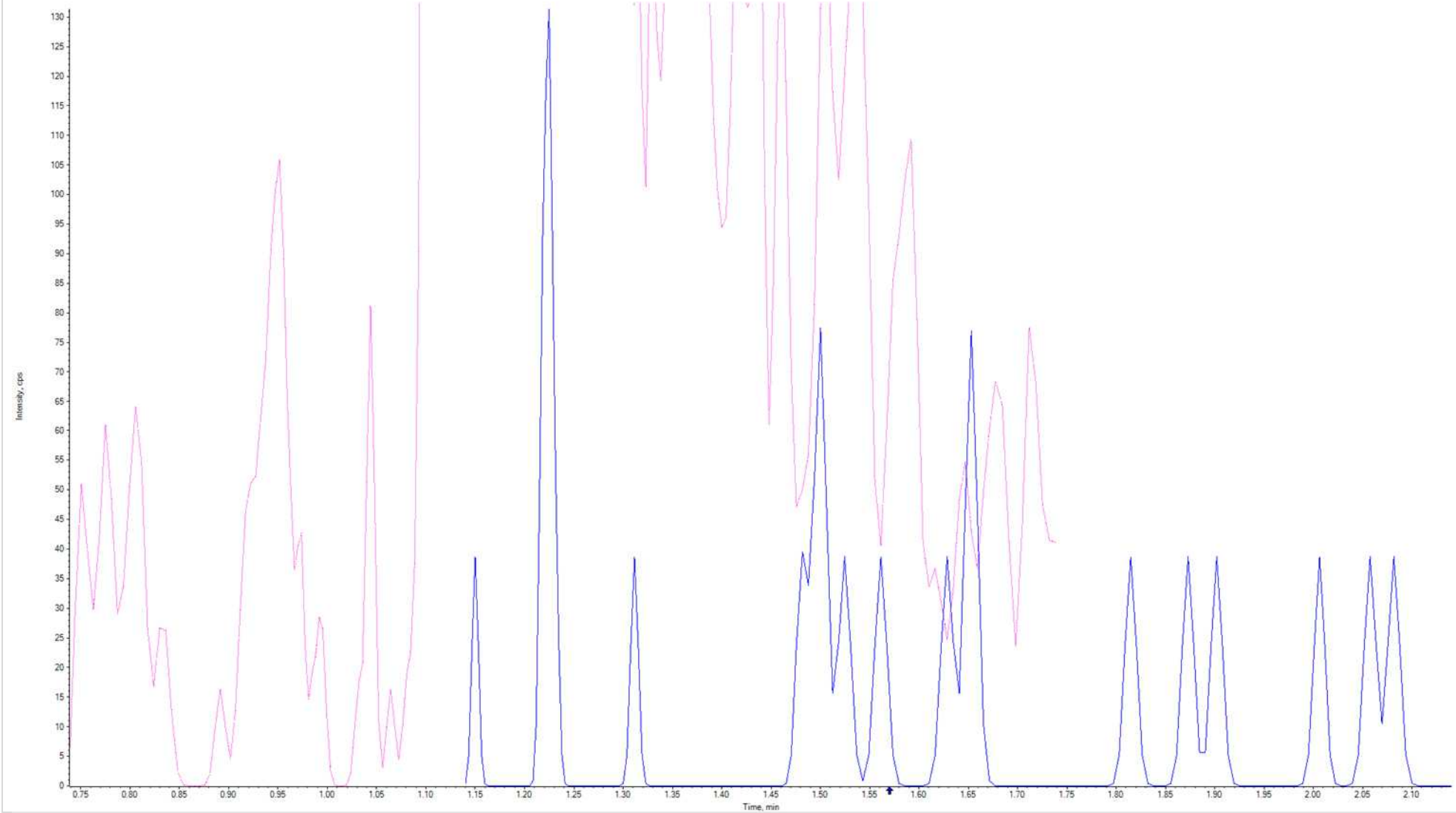
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11Cl-PF3OUdS_2
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



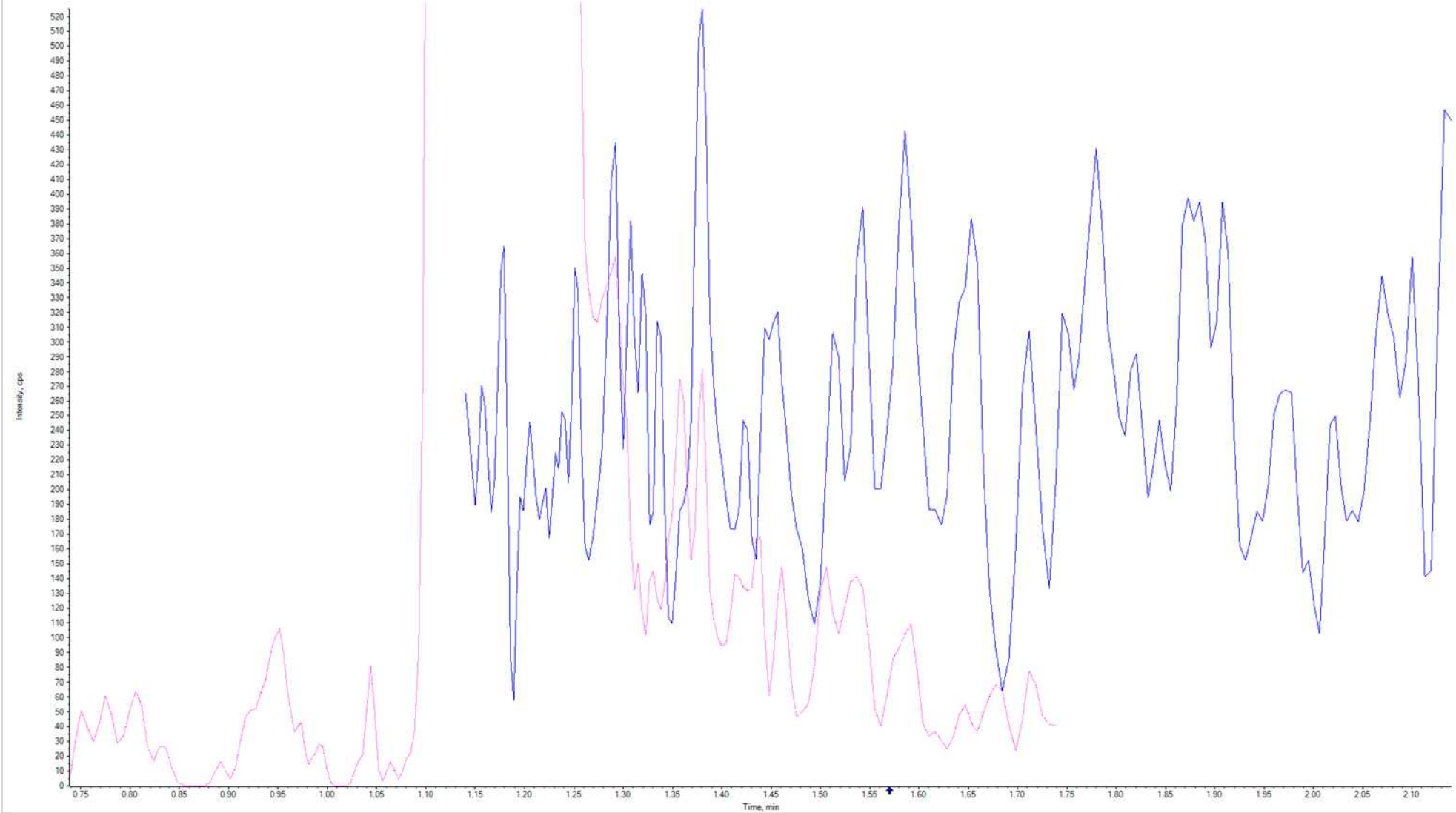
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3:3FTCA
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



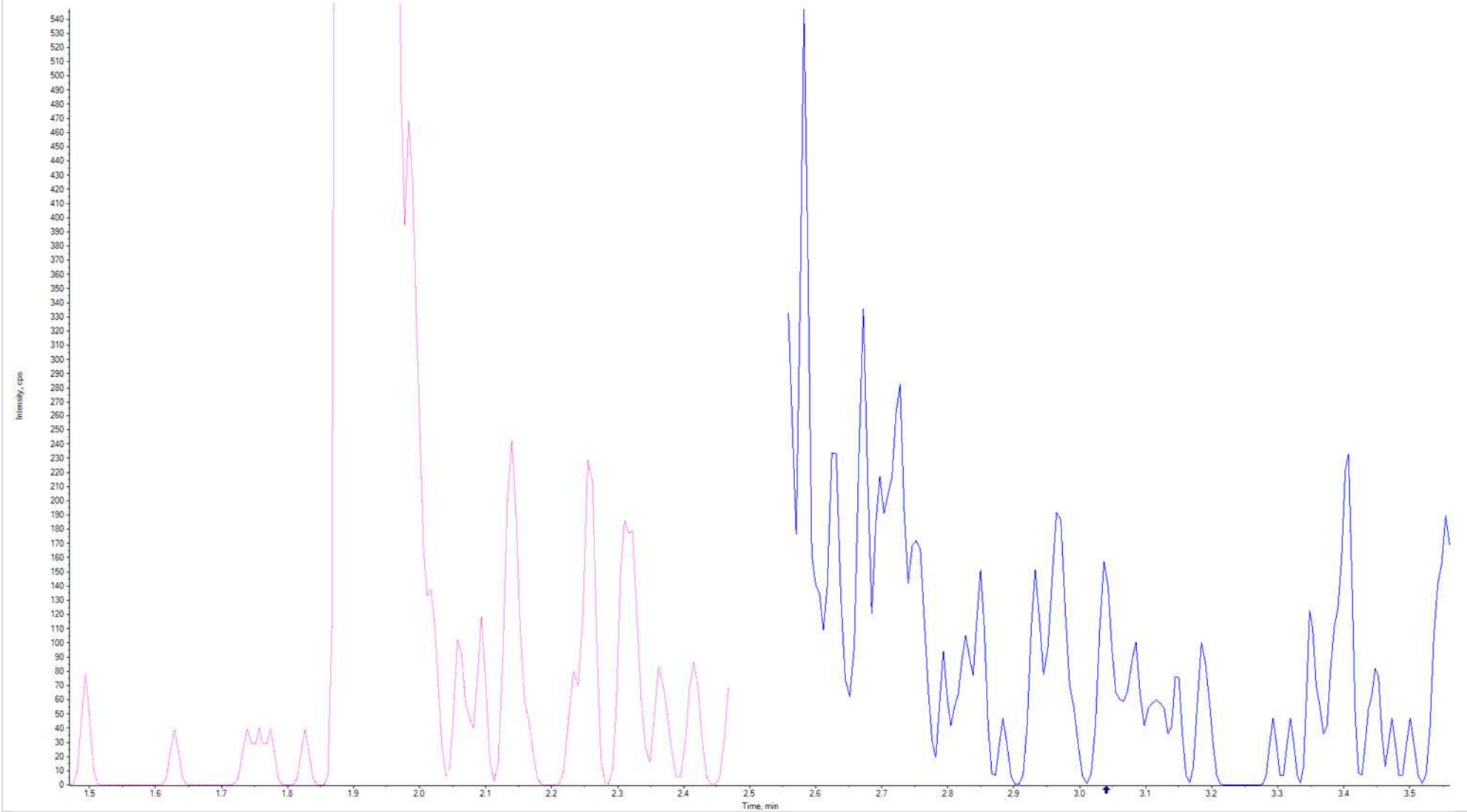
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3:3FTCA_2
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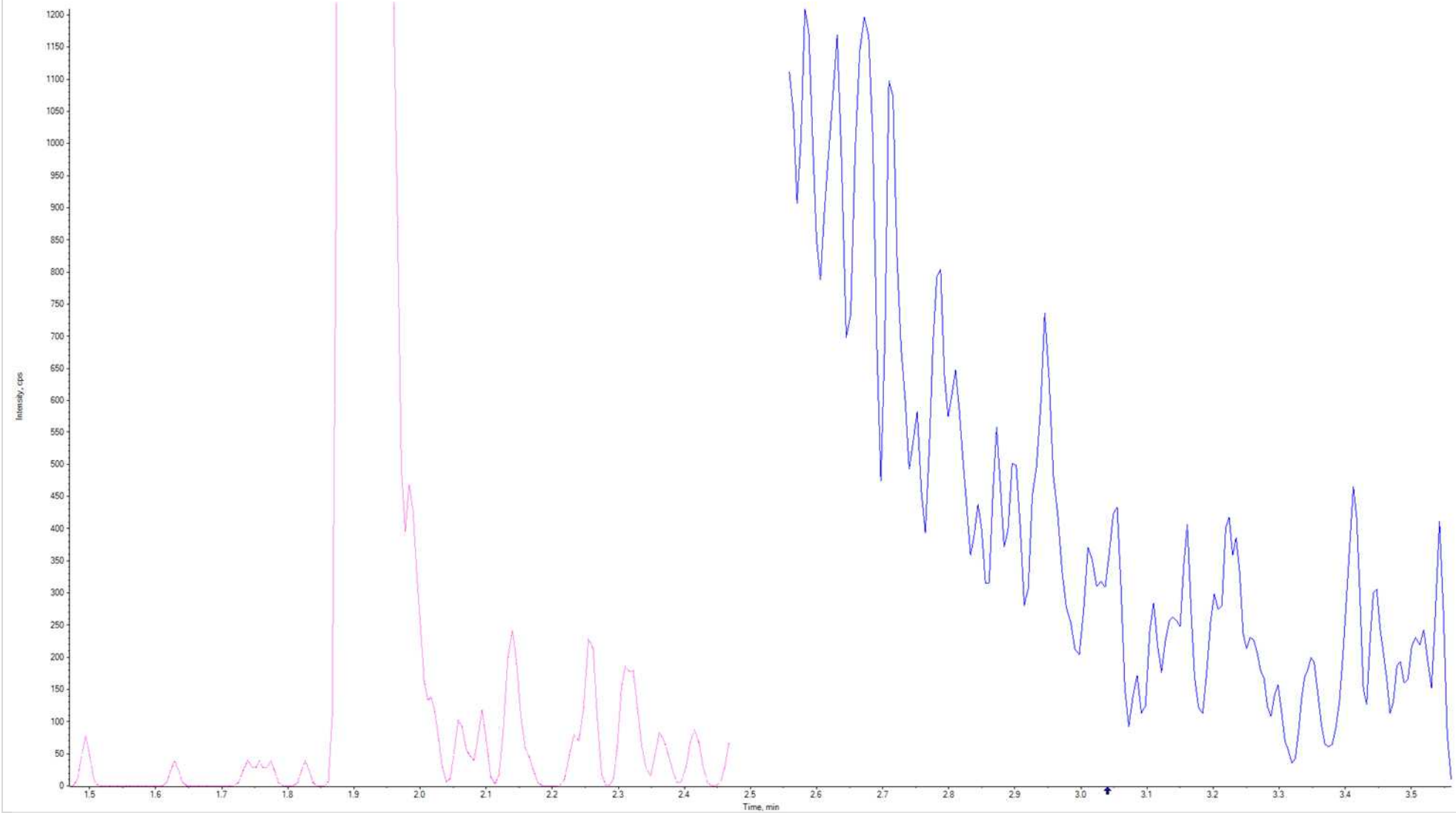
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5:3FTCA
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



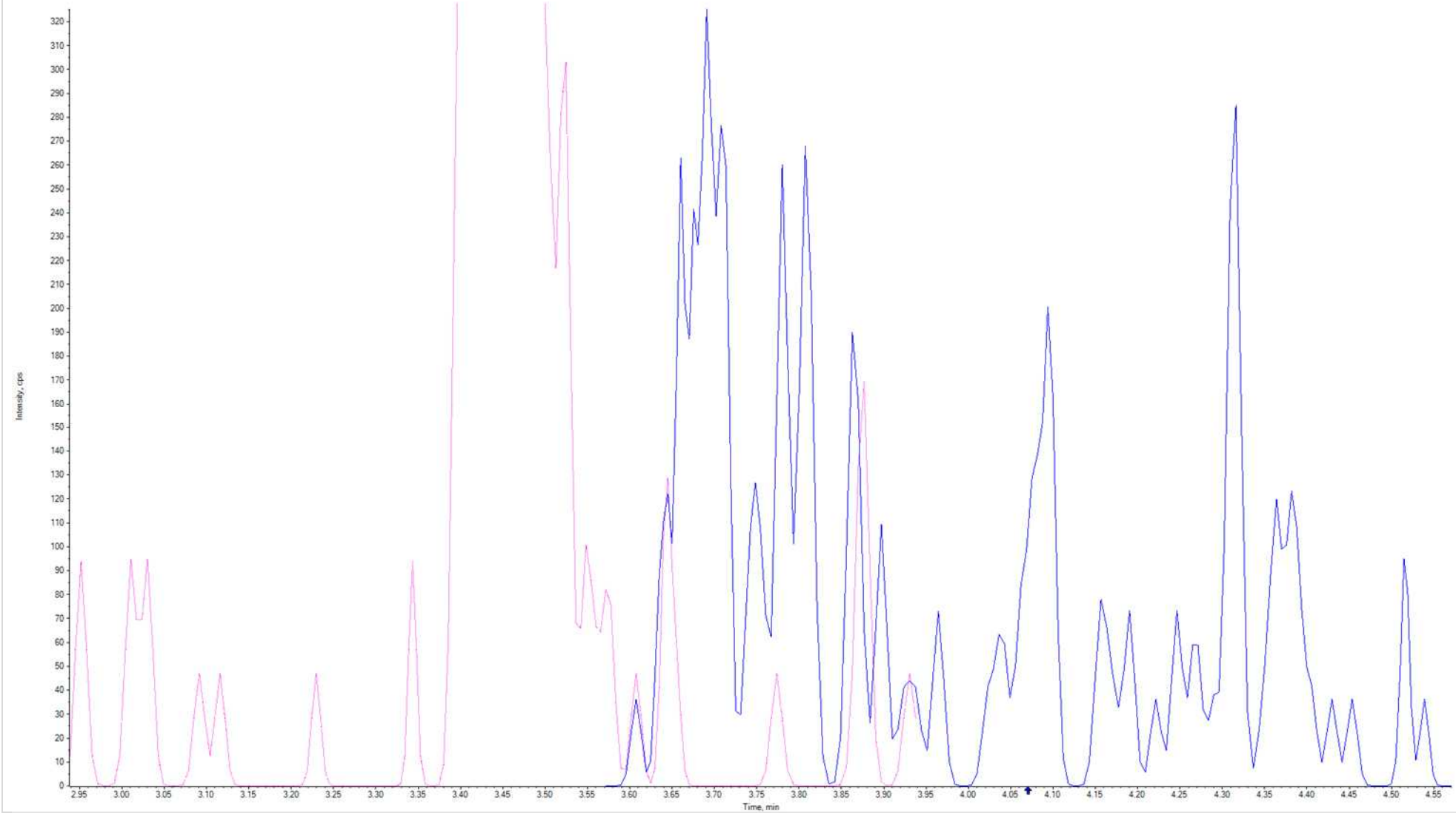
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5:3FTCA_2
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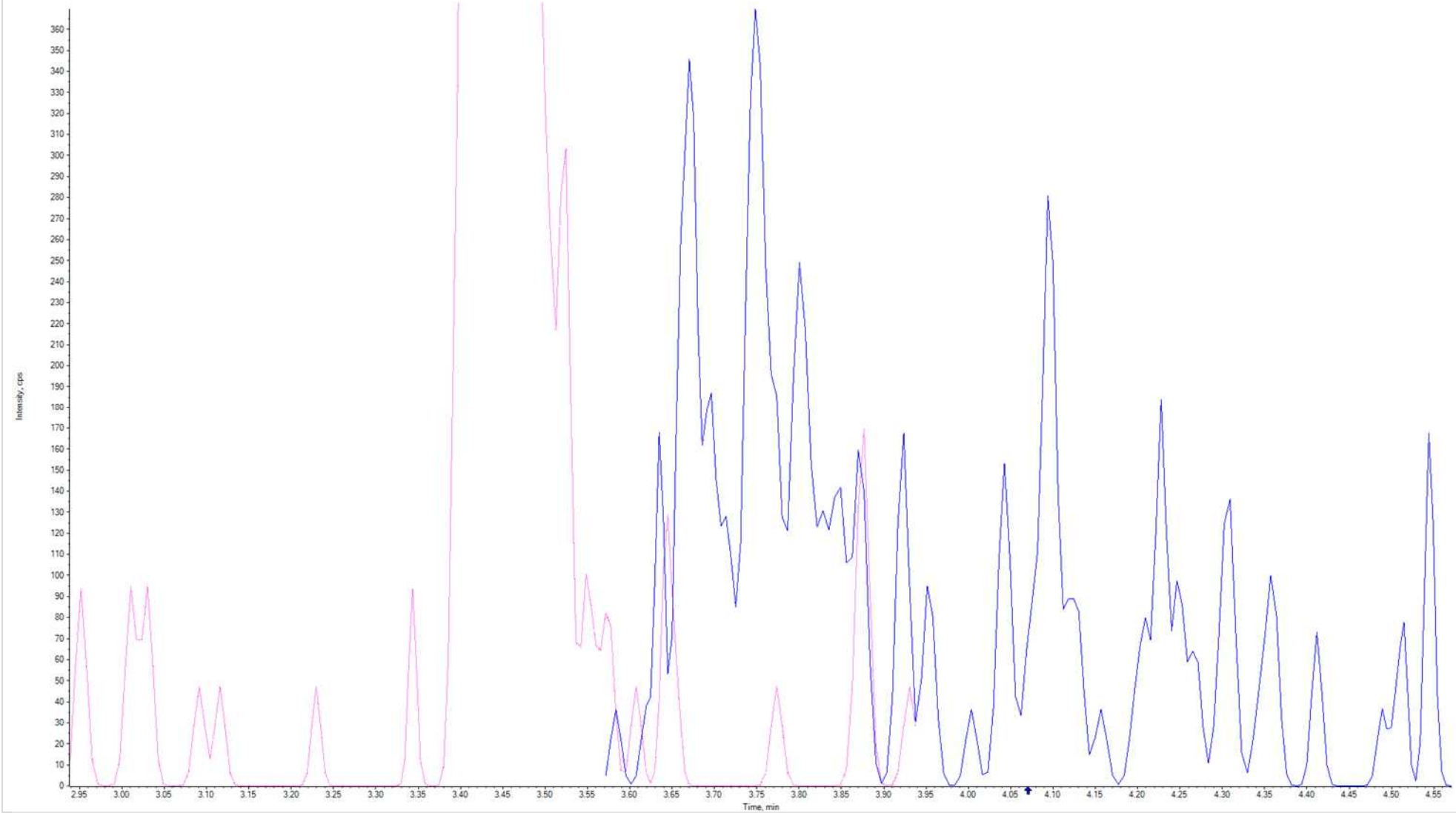
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7:3FTCA
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



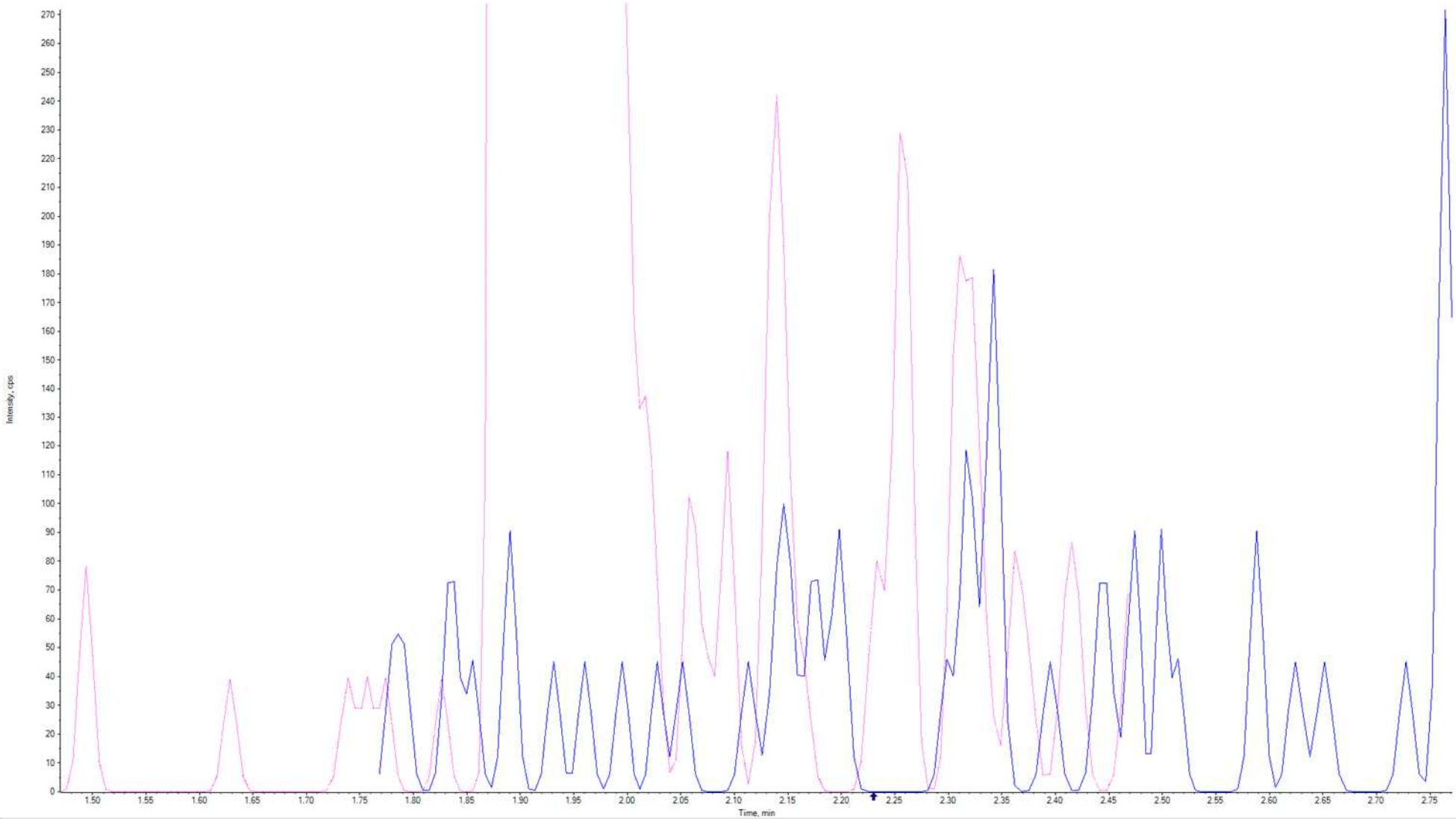
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7:3FTCA_2
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



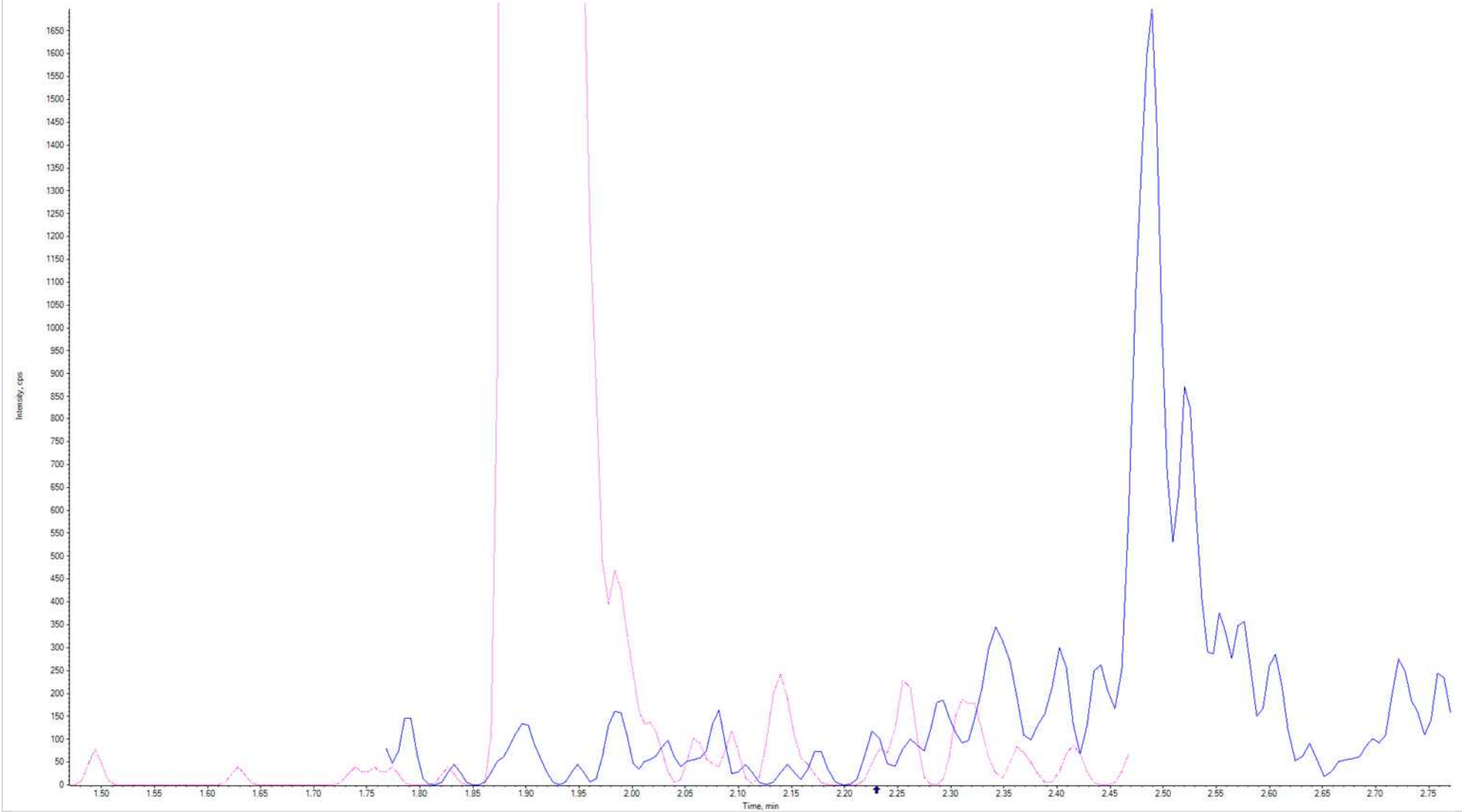
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PFEESA
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



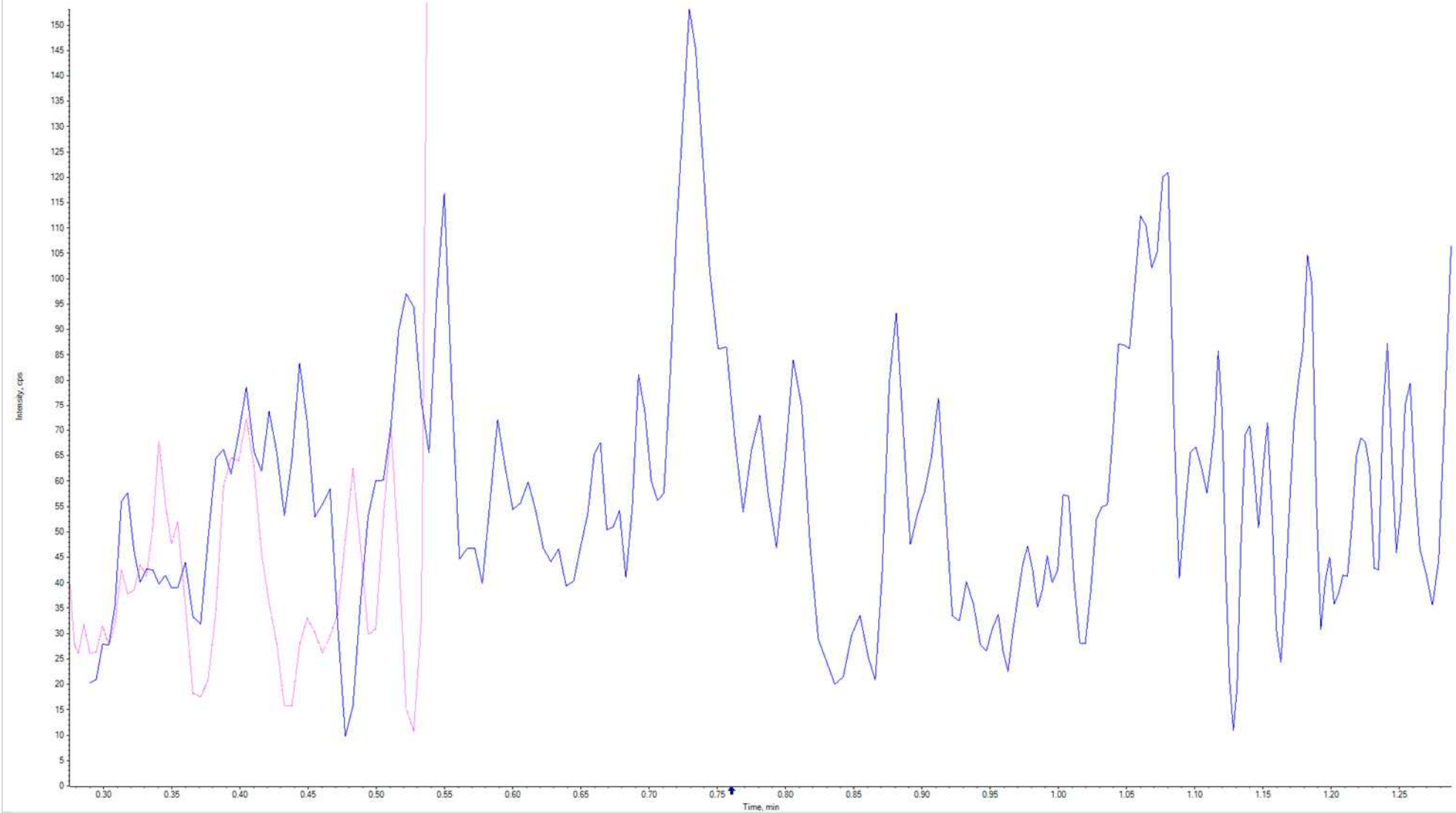
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PFEESA_2
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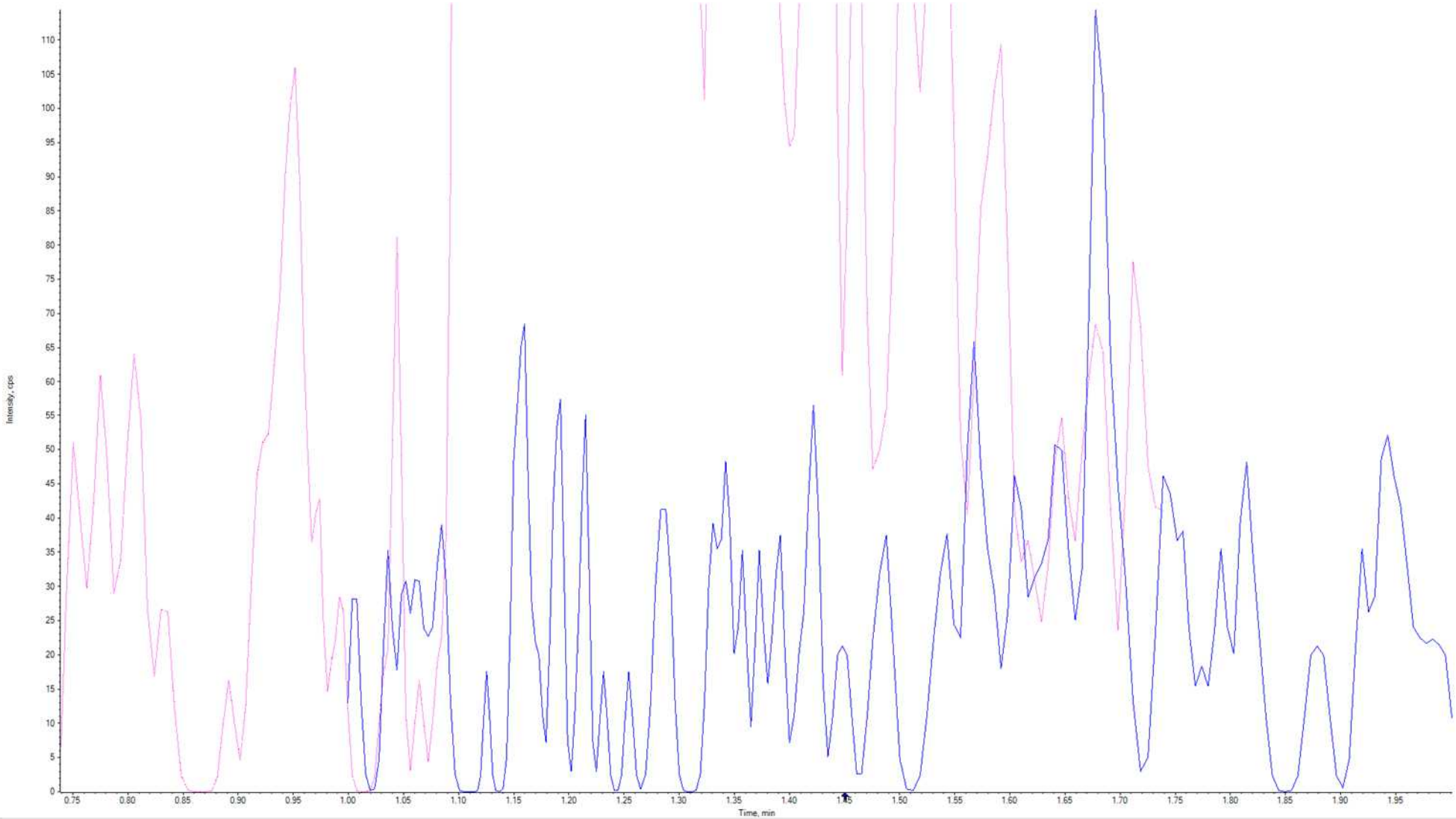


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PFMPA
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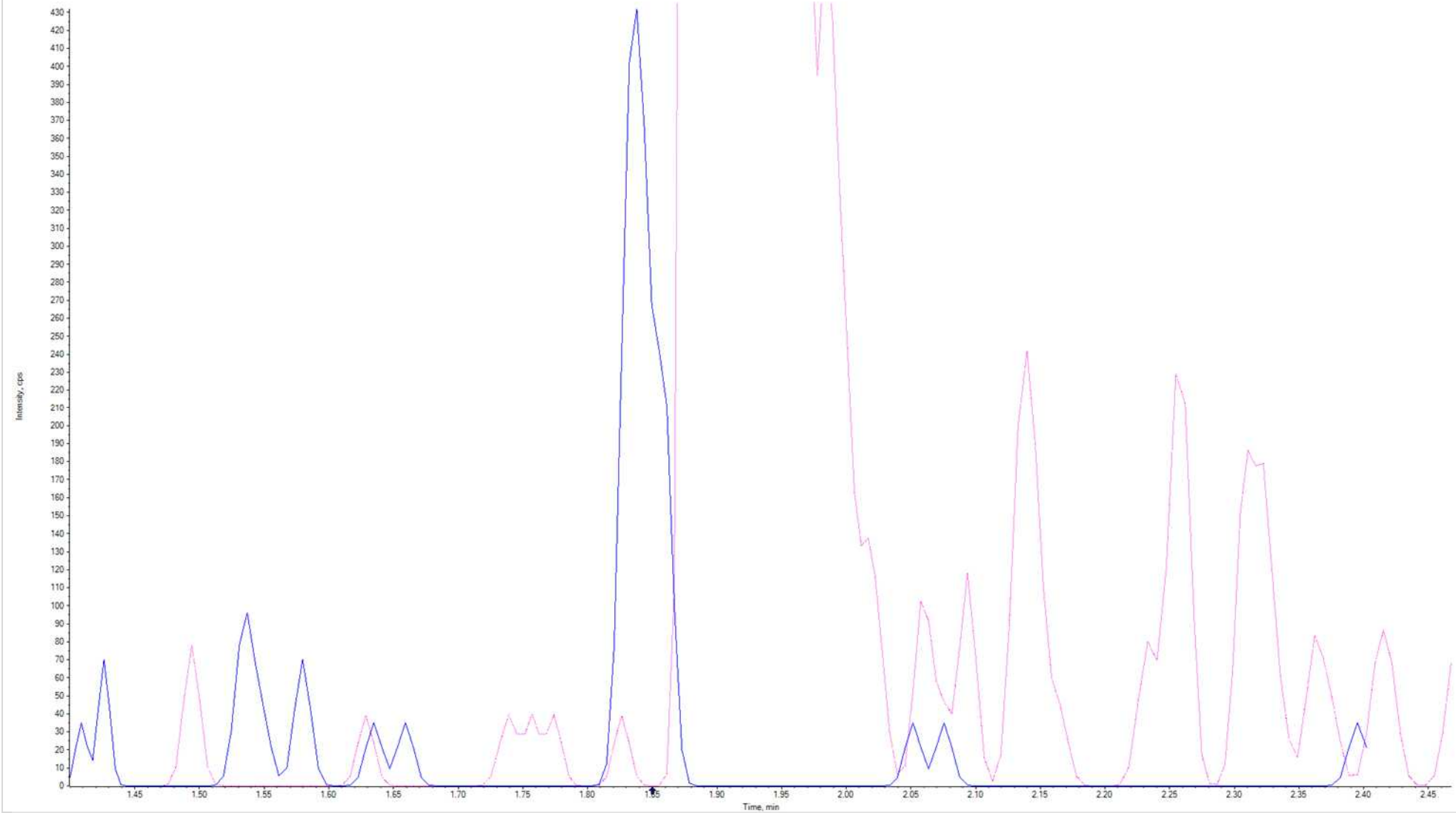


PFMBA
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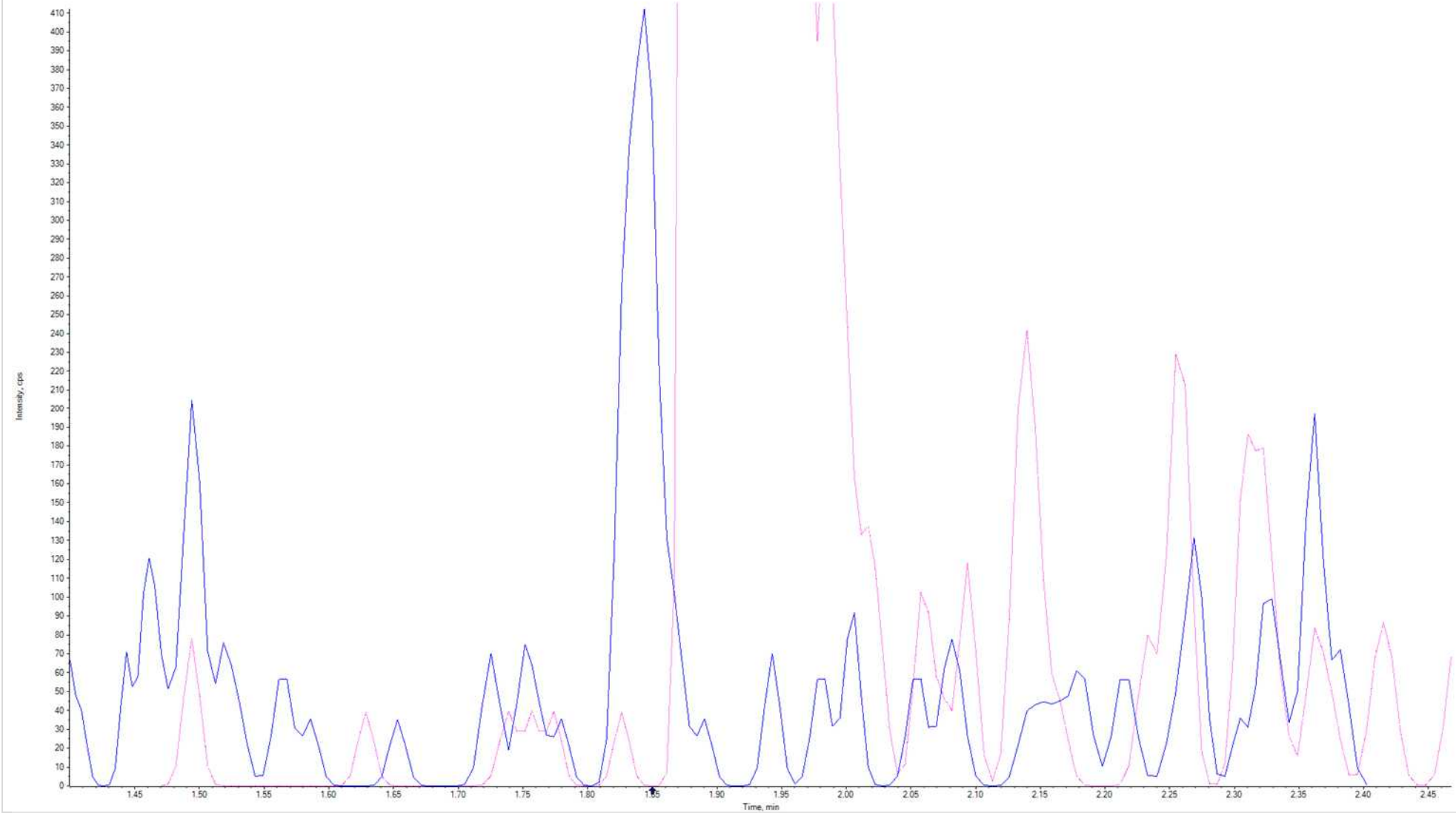
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NFDHA
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



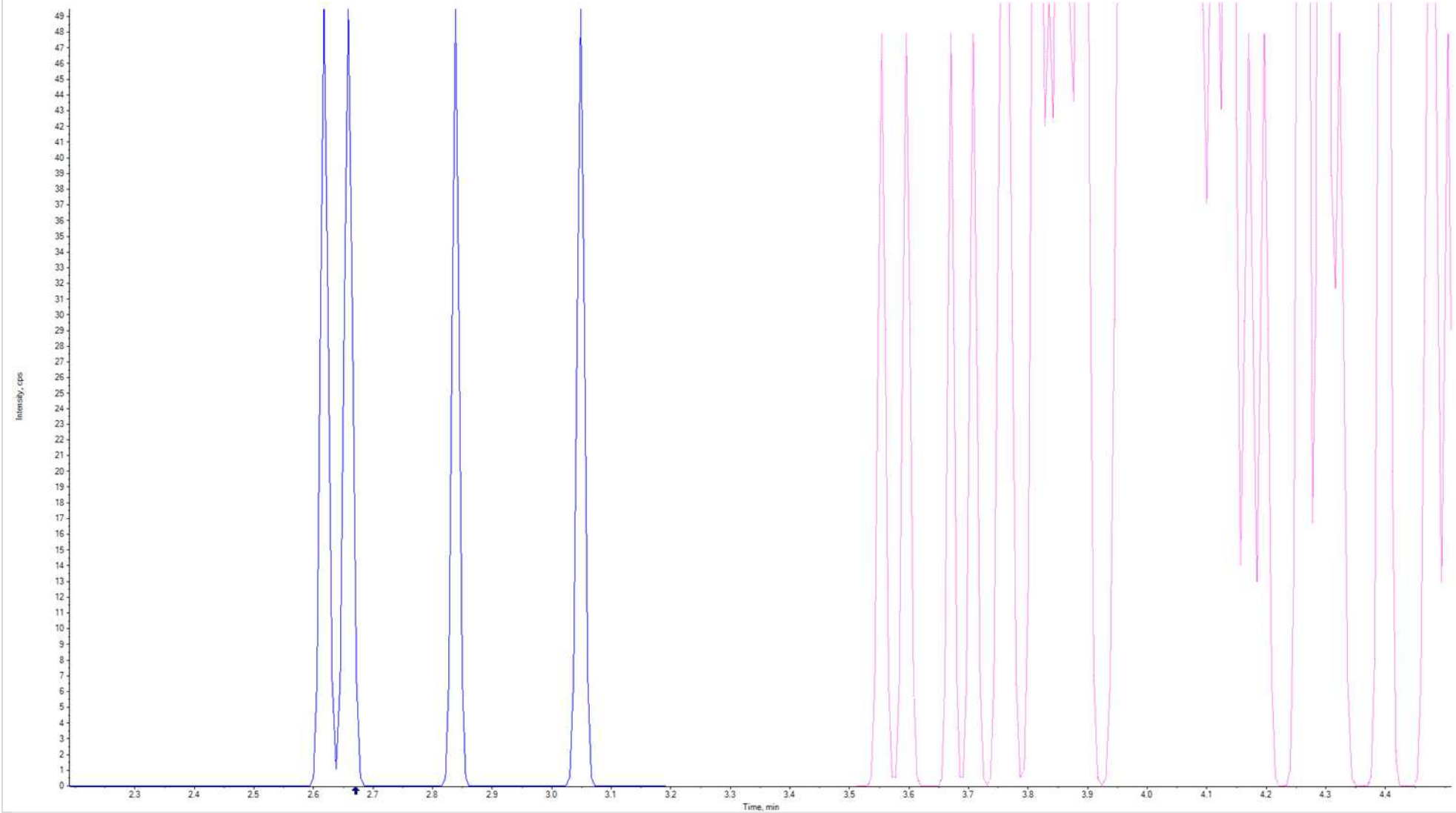
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NFDHA_2
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



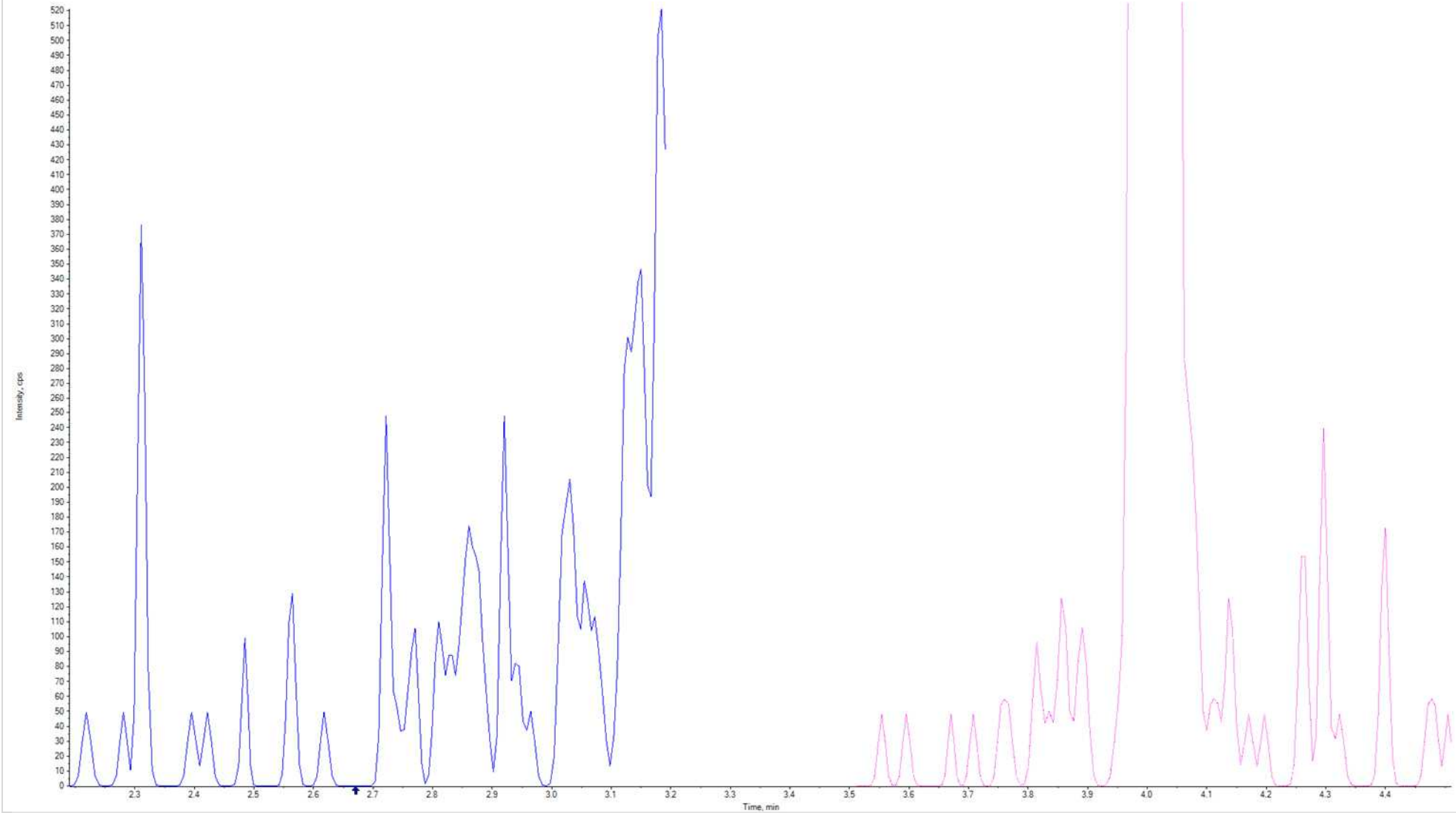
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TDCA
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A



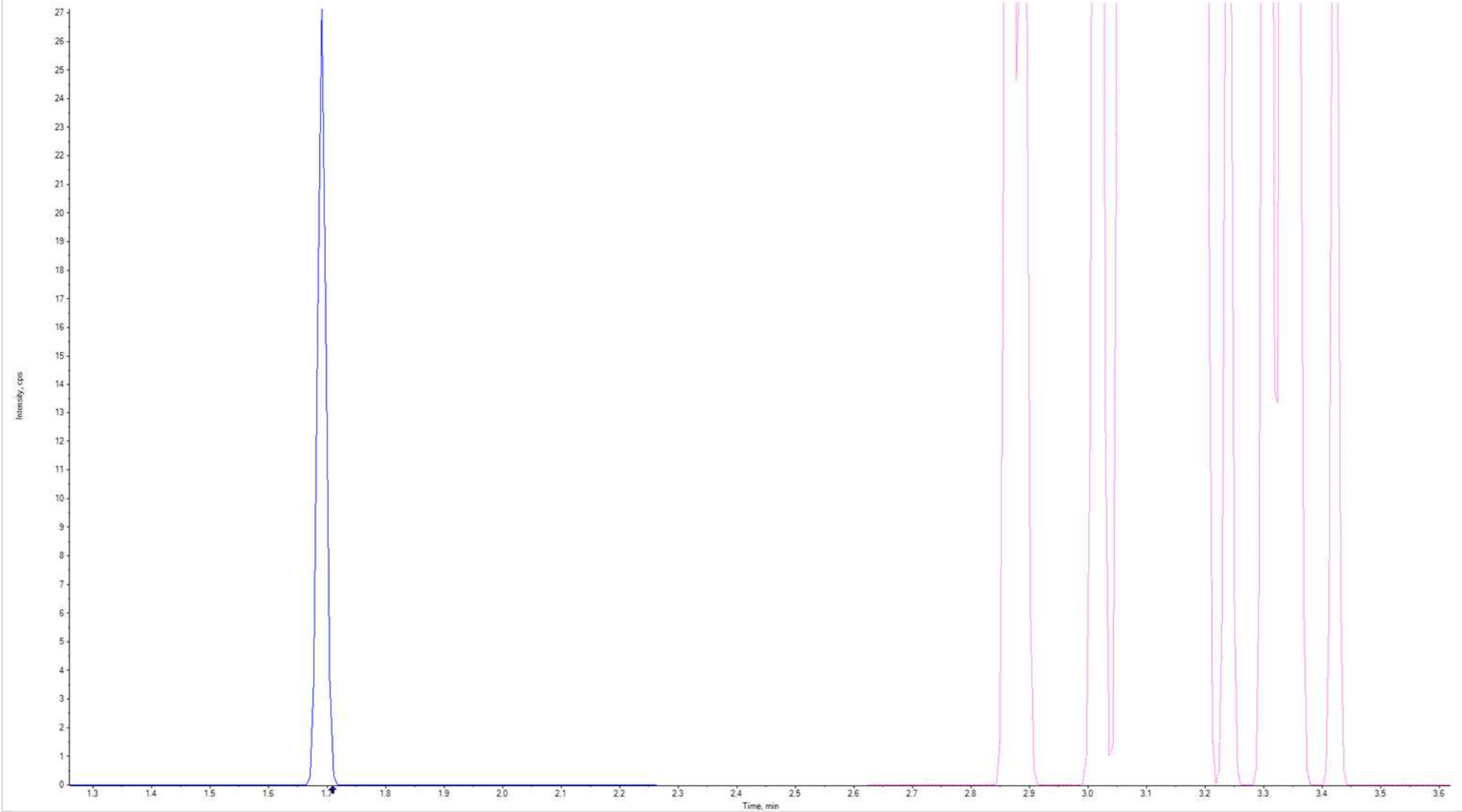
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TDCA_2
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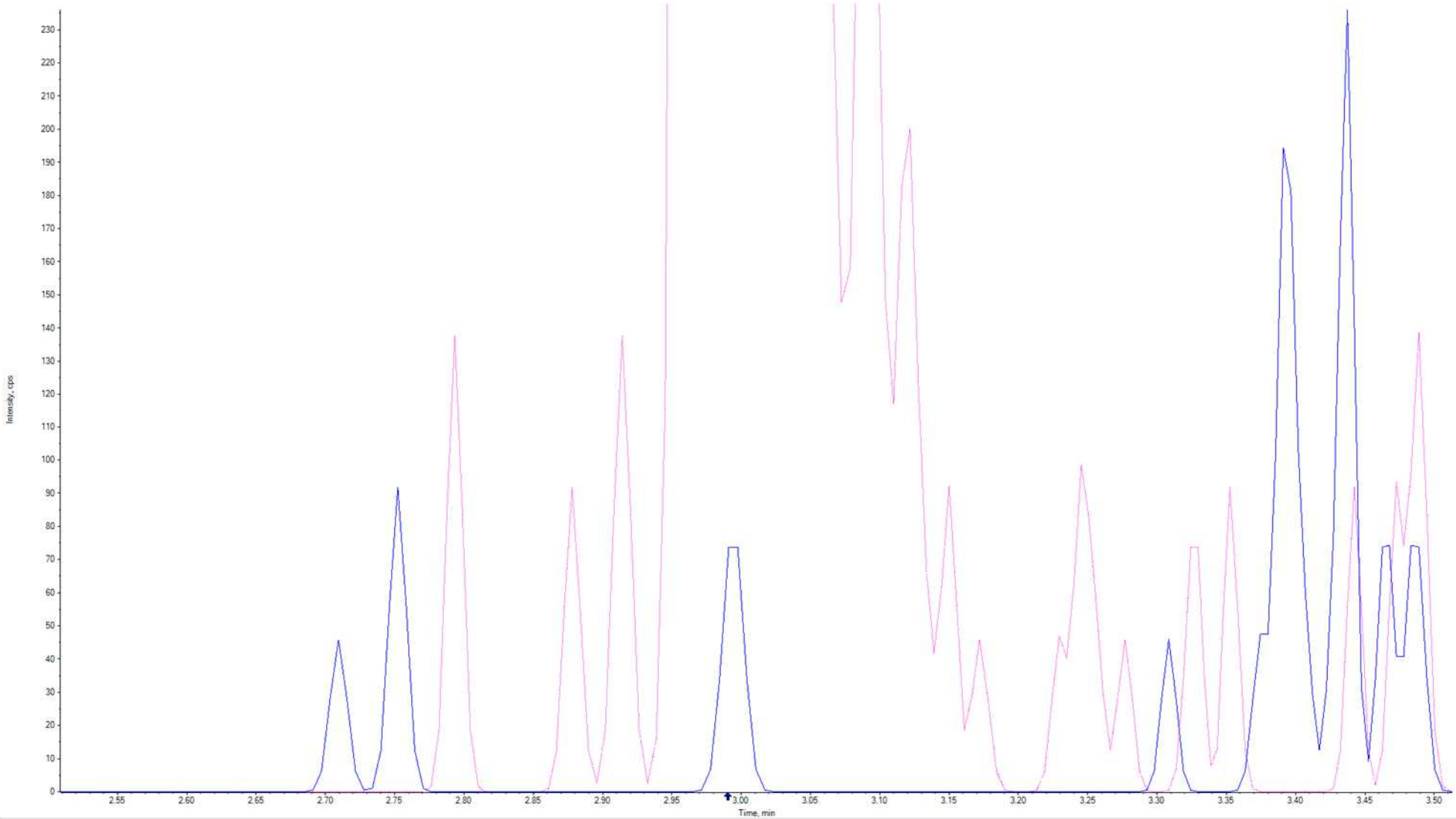
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13C2D4-4:2FTS
Sample: WG2038443-1R S/N:N/A Points Across peak:N/A

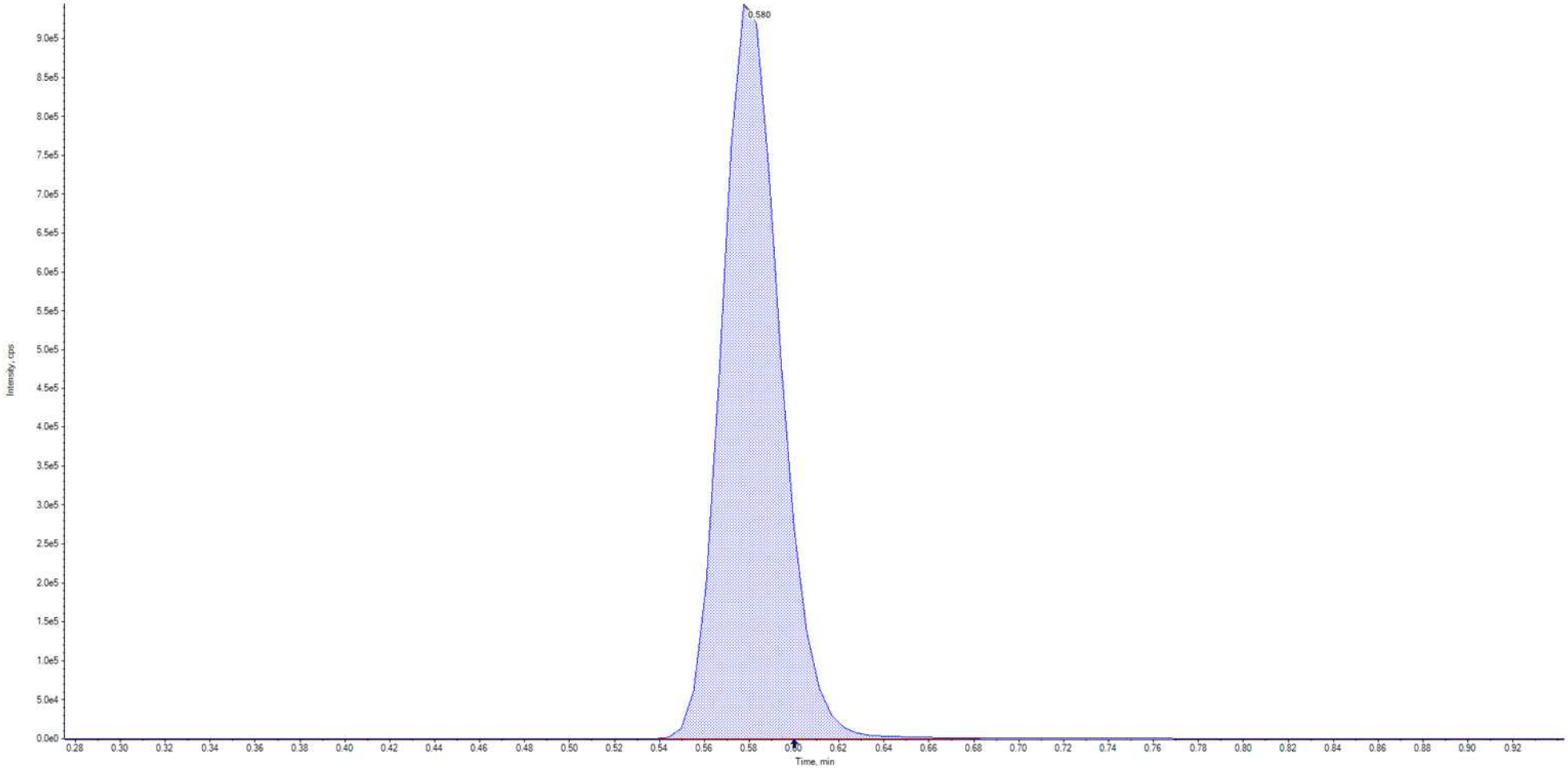


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Alpha Analytical LLC
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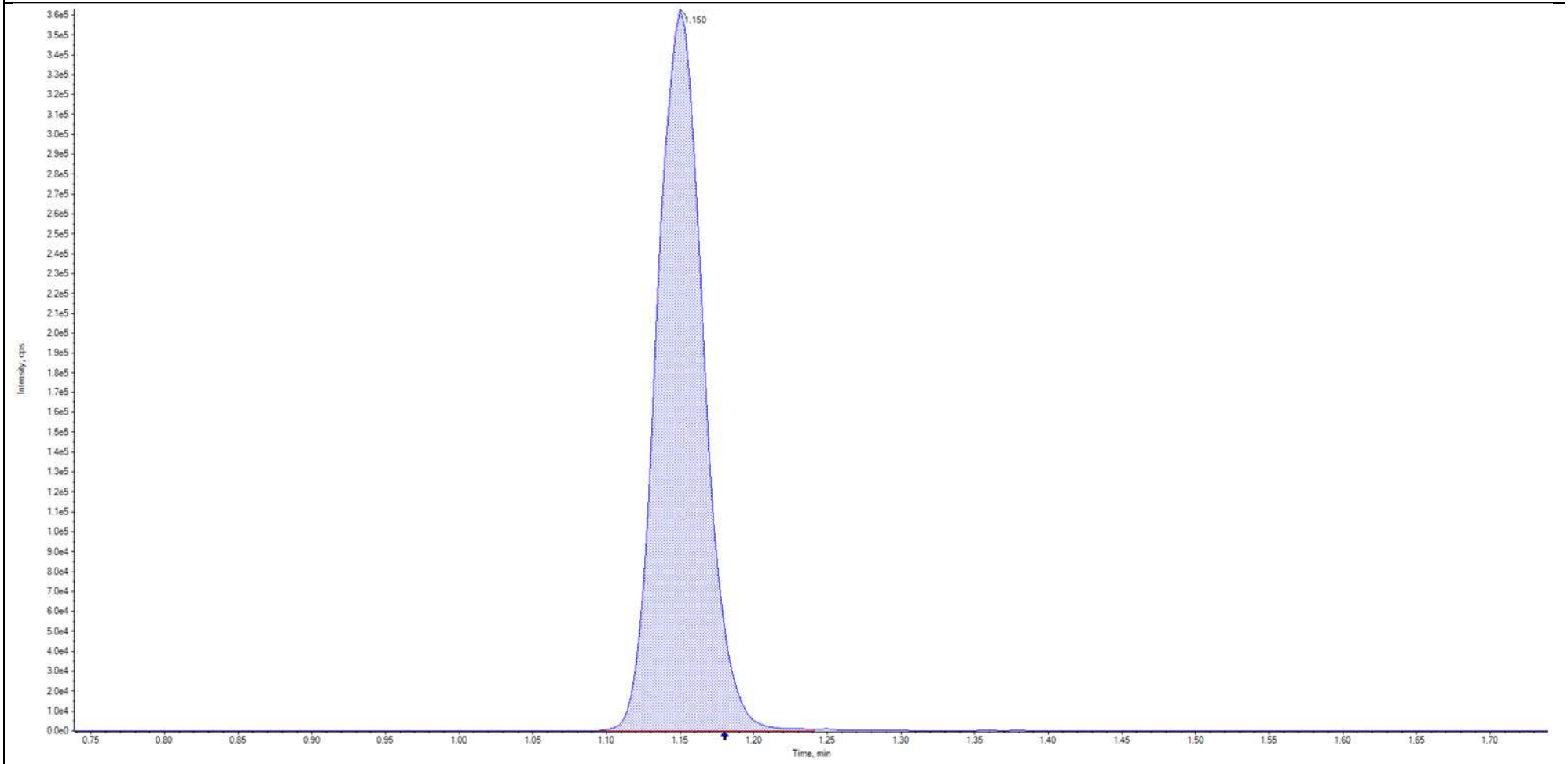
13C2-PFOA
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13C4-PFBA
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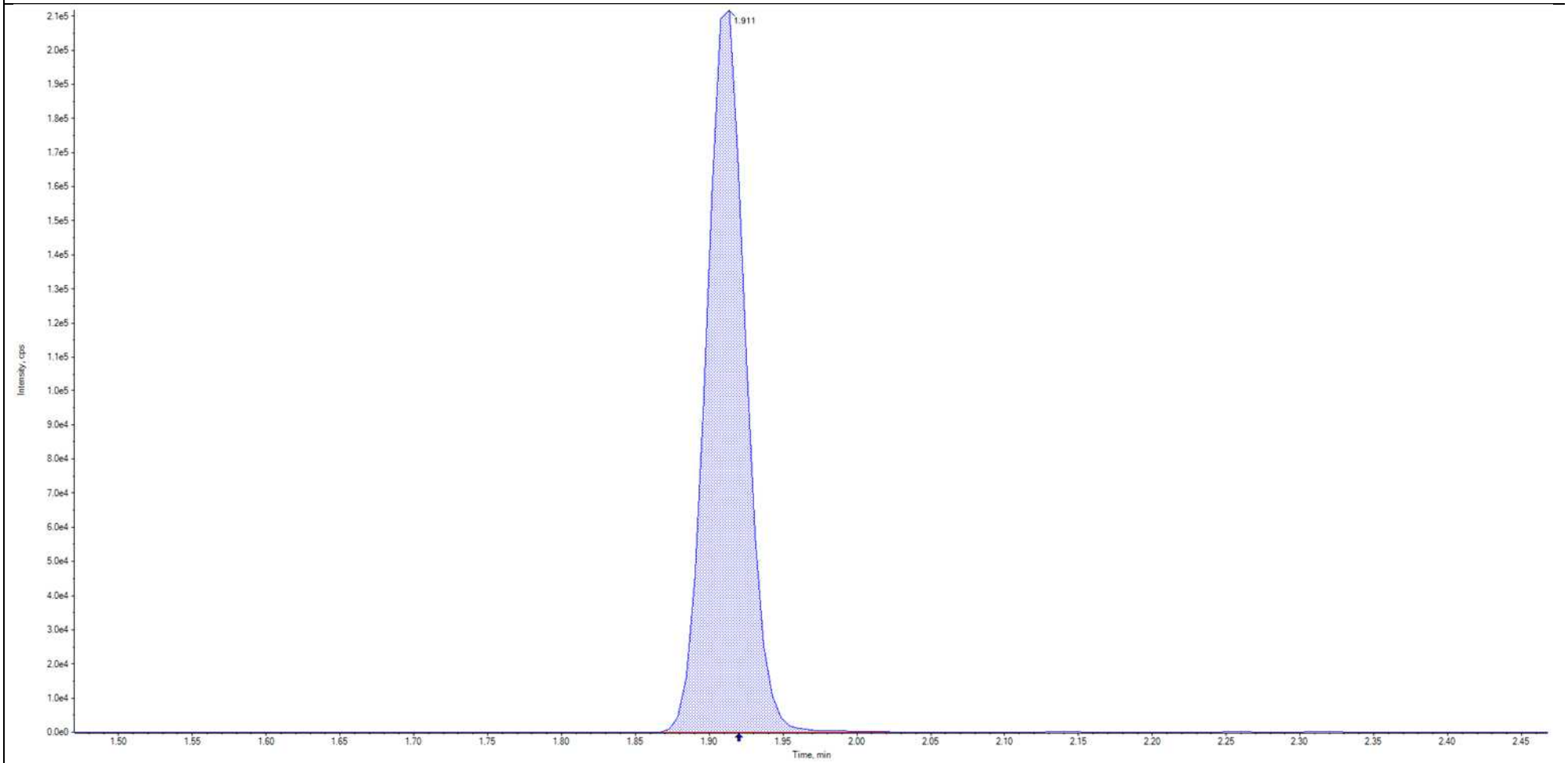


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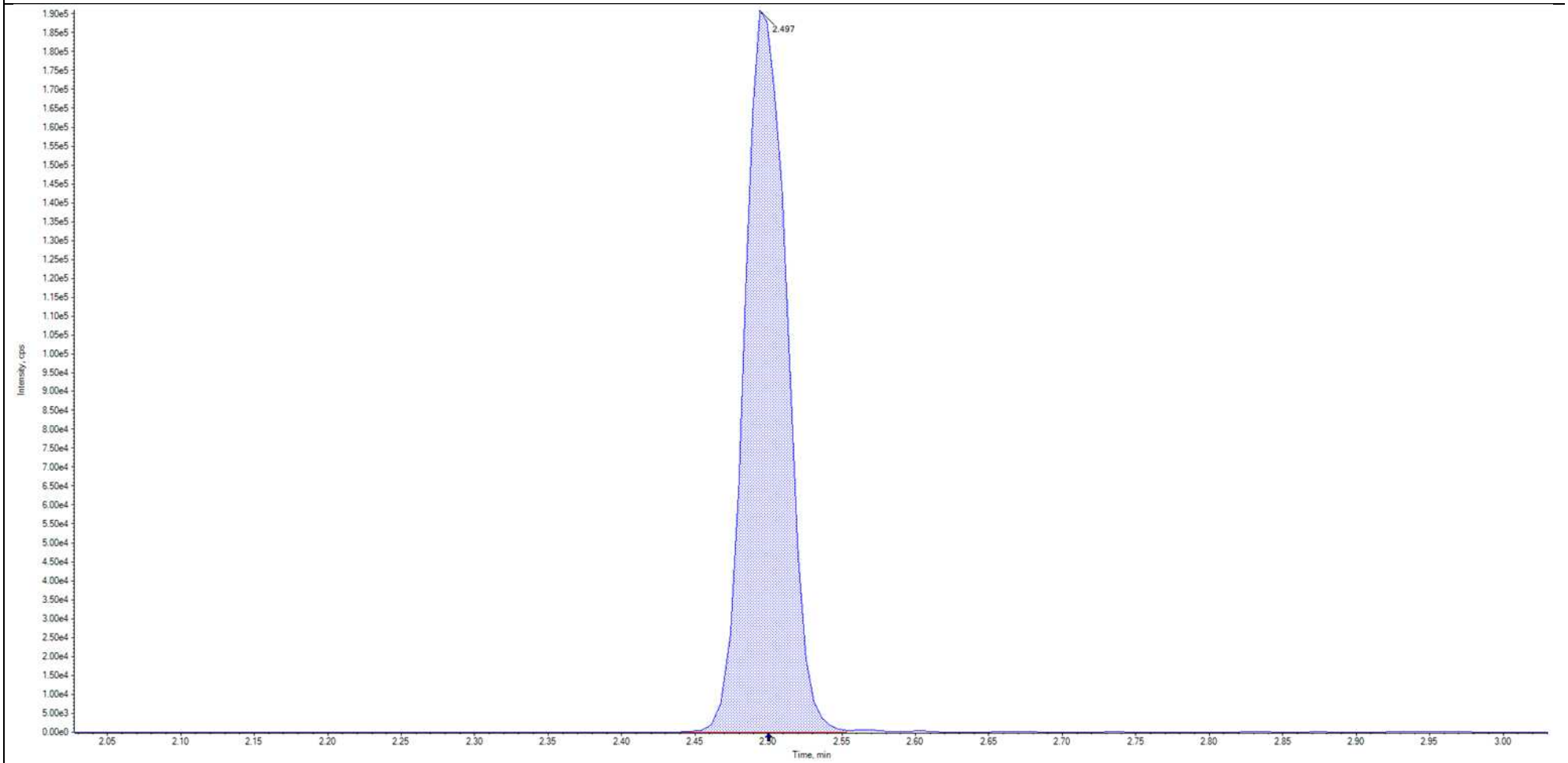


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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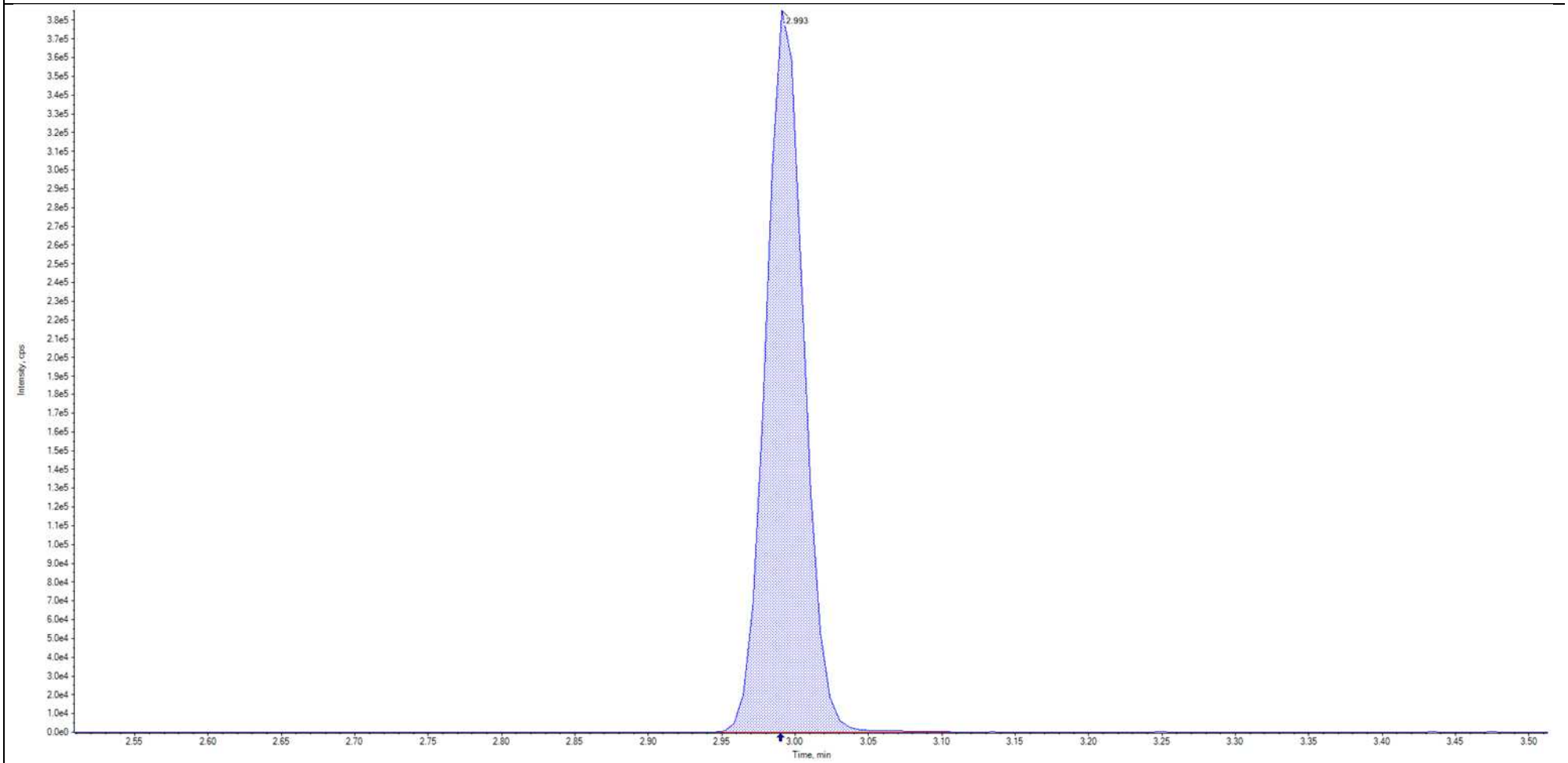
13C5-PFHxA
Sample: WG2038443-1R



13C4-PFHpA
Sample: WG2038443-1R

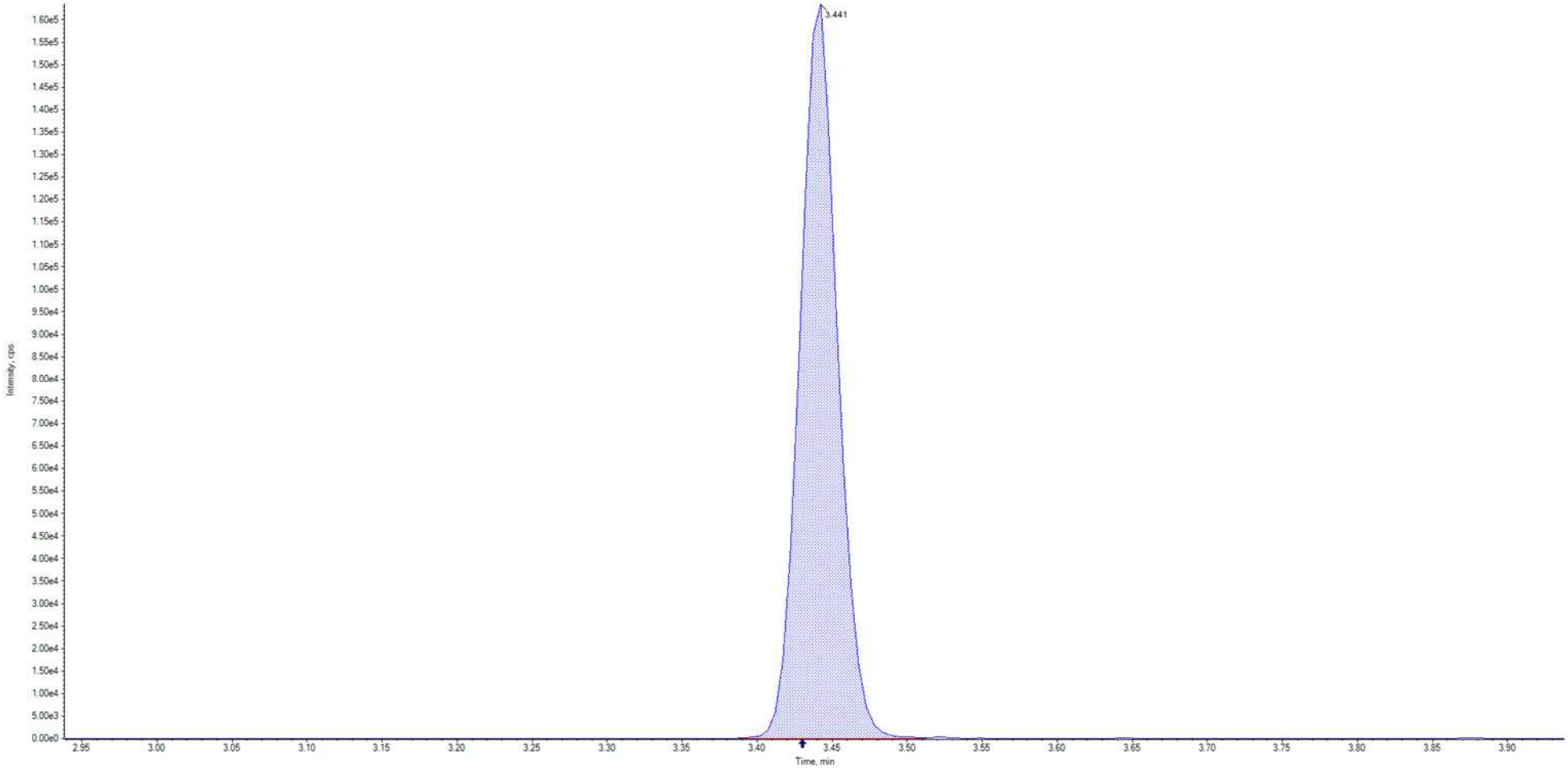


13C8-PFOA
Sample: WG2038443-1R

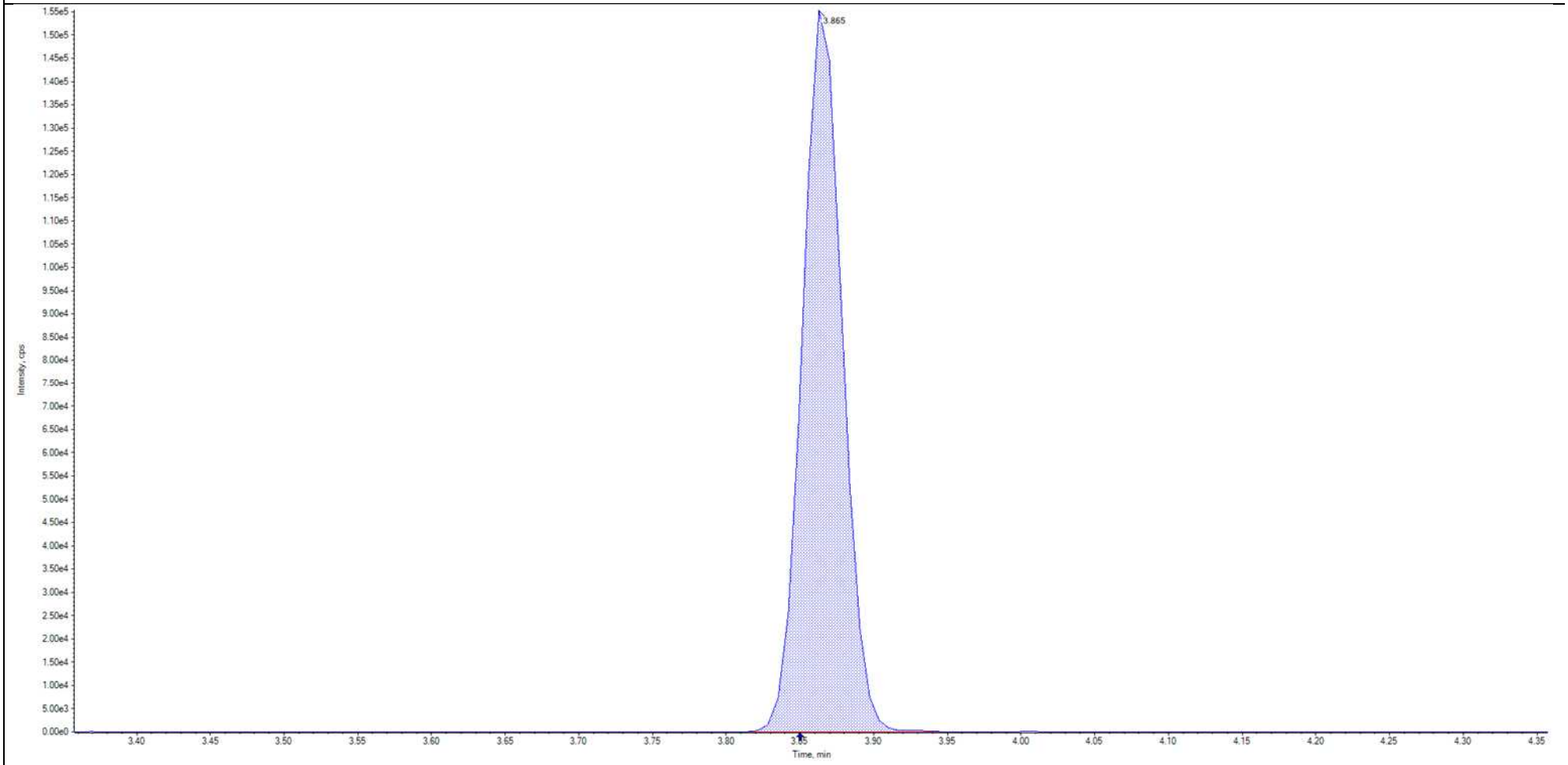


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Alpha Analytical LLC
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13C9-PFNA
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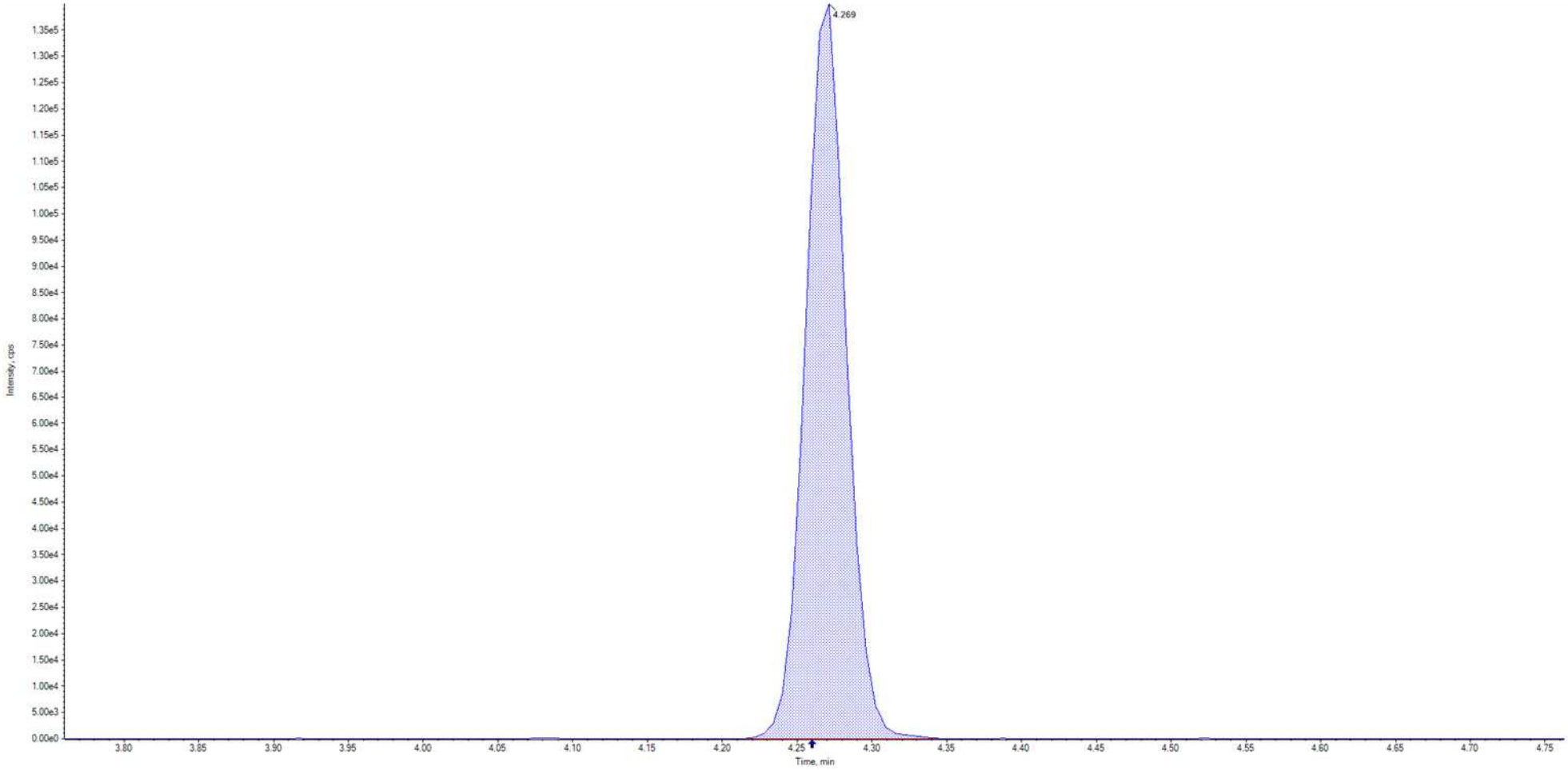


13C6-PFDA
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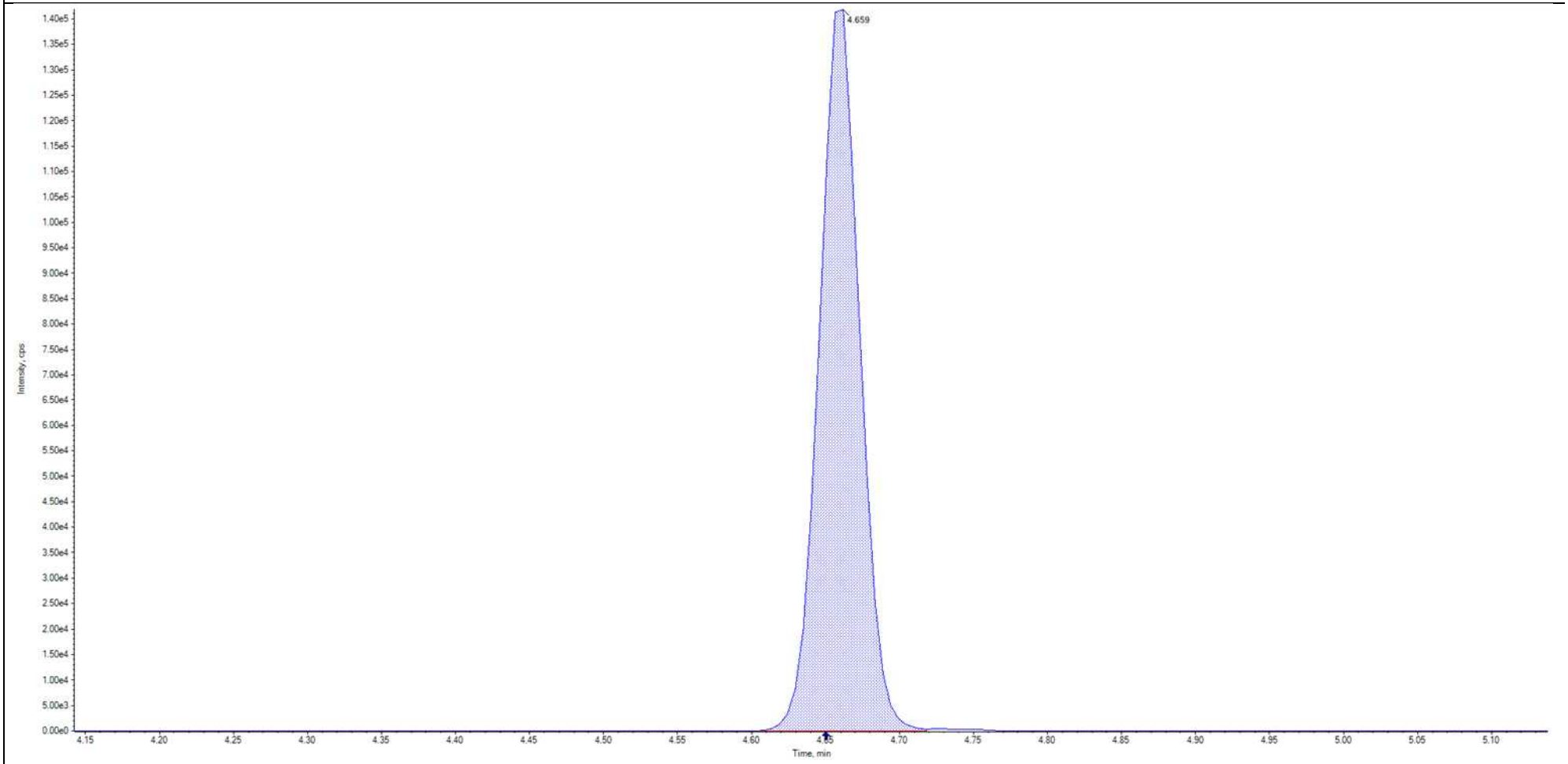


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13C7-PFUnA
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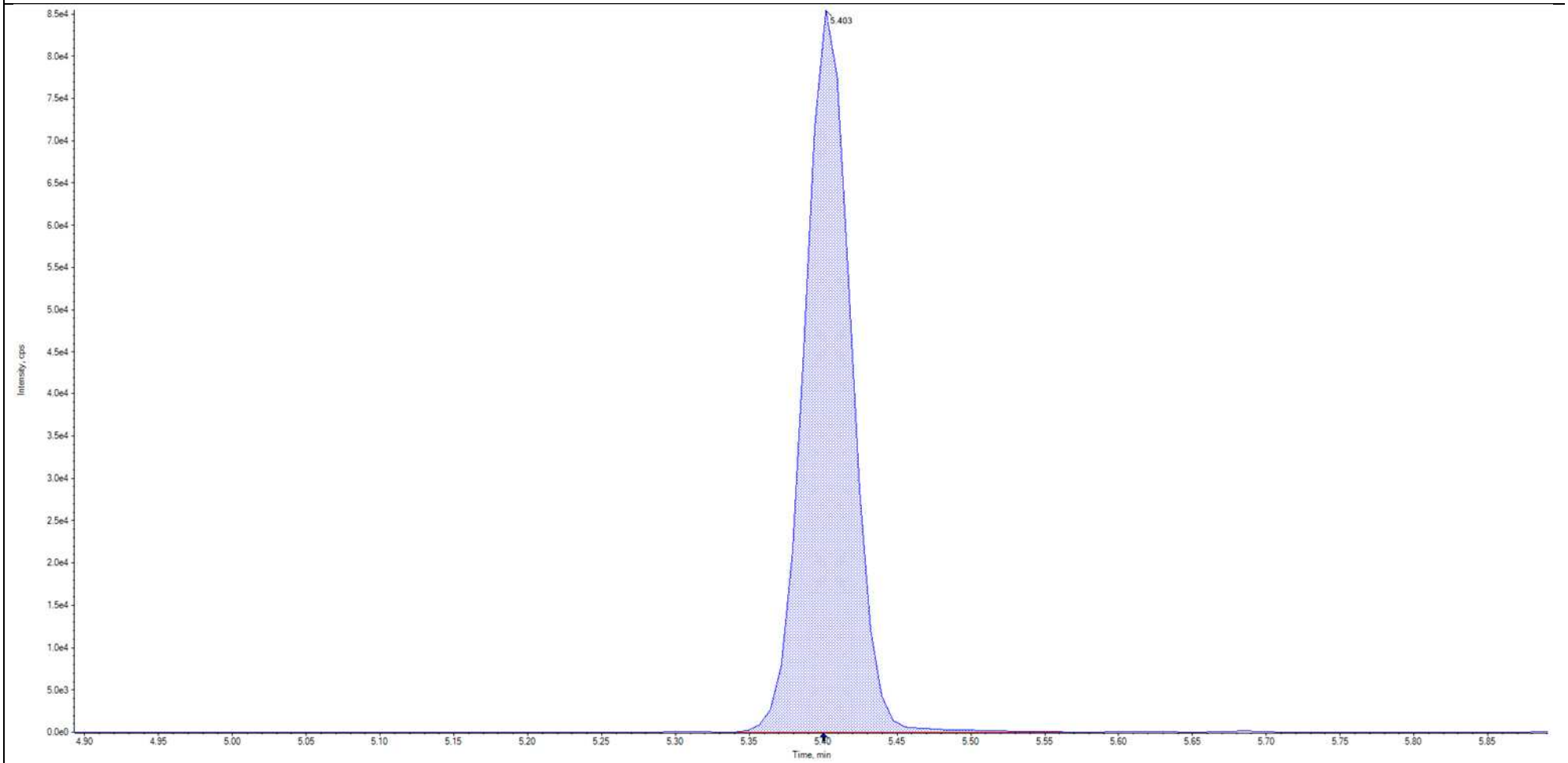


13C2-PFDoA
Sample: WG2038443-1R

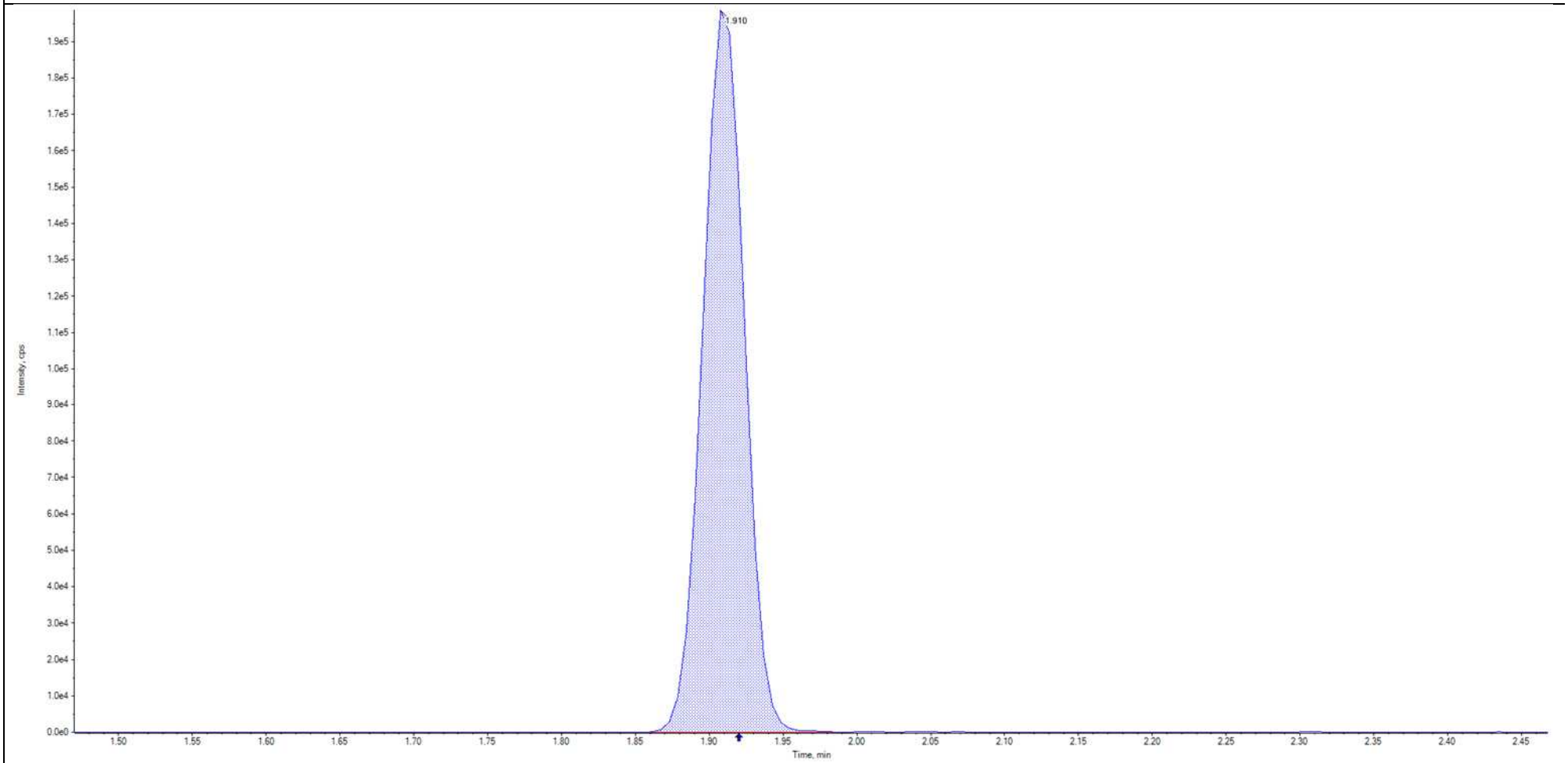


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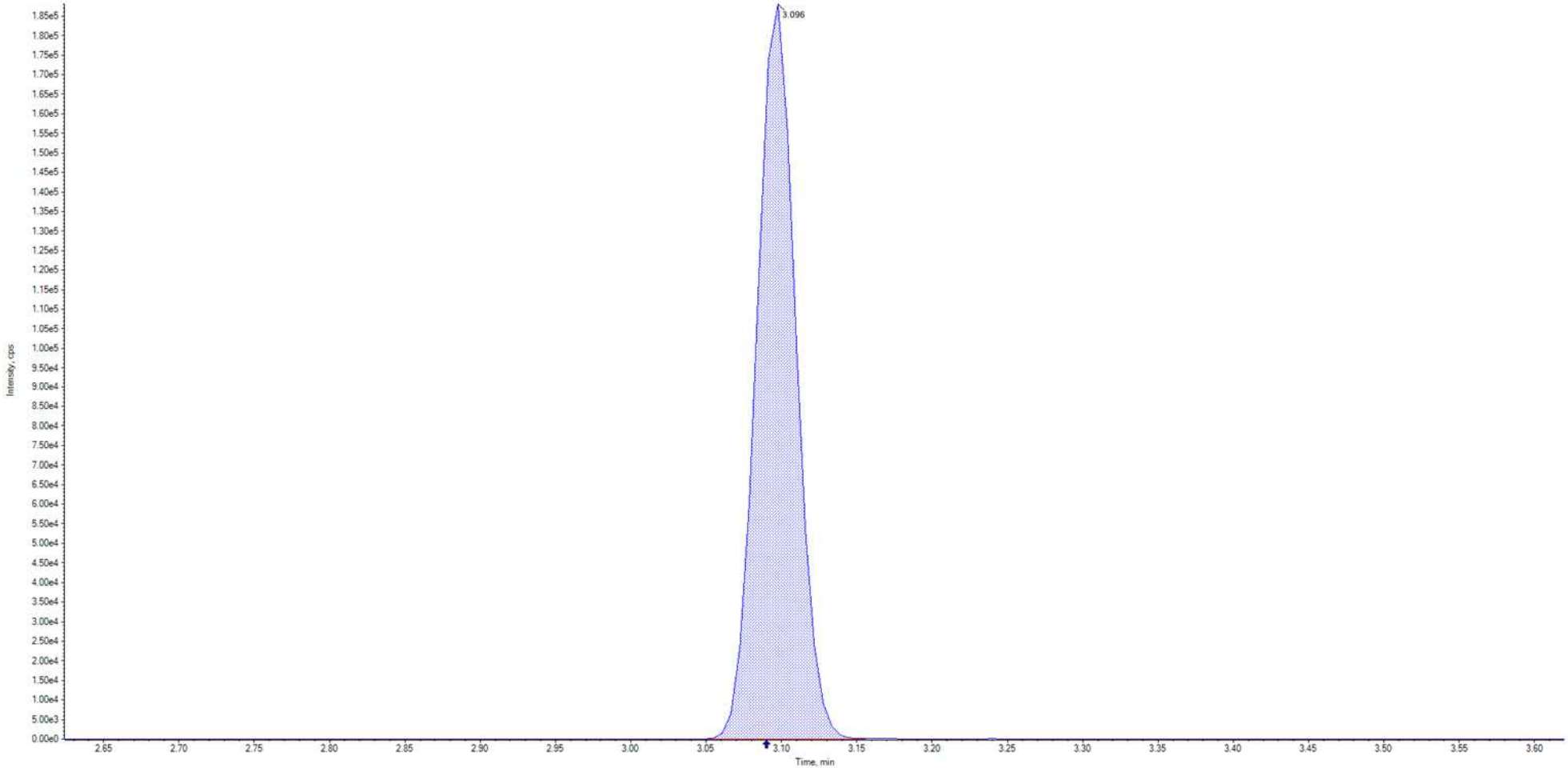
13C2-PFTeDA
Sample: WG2038443-1R



13C3-PFBS
Sample: WG2038443-1R

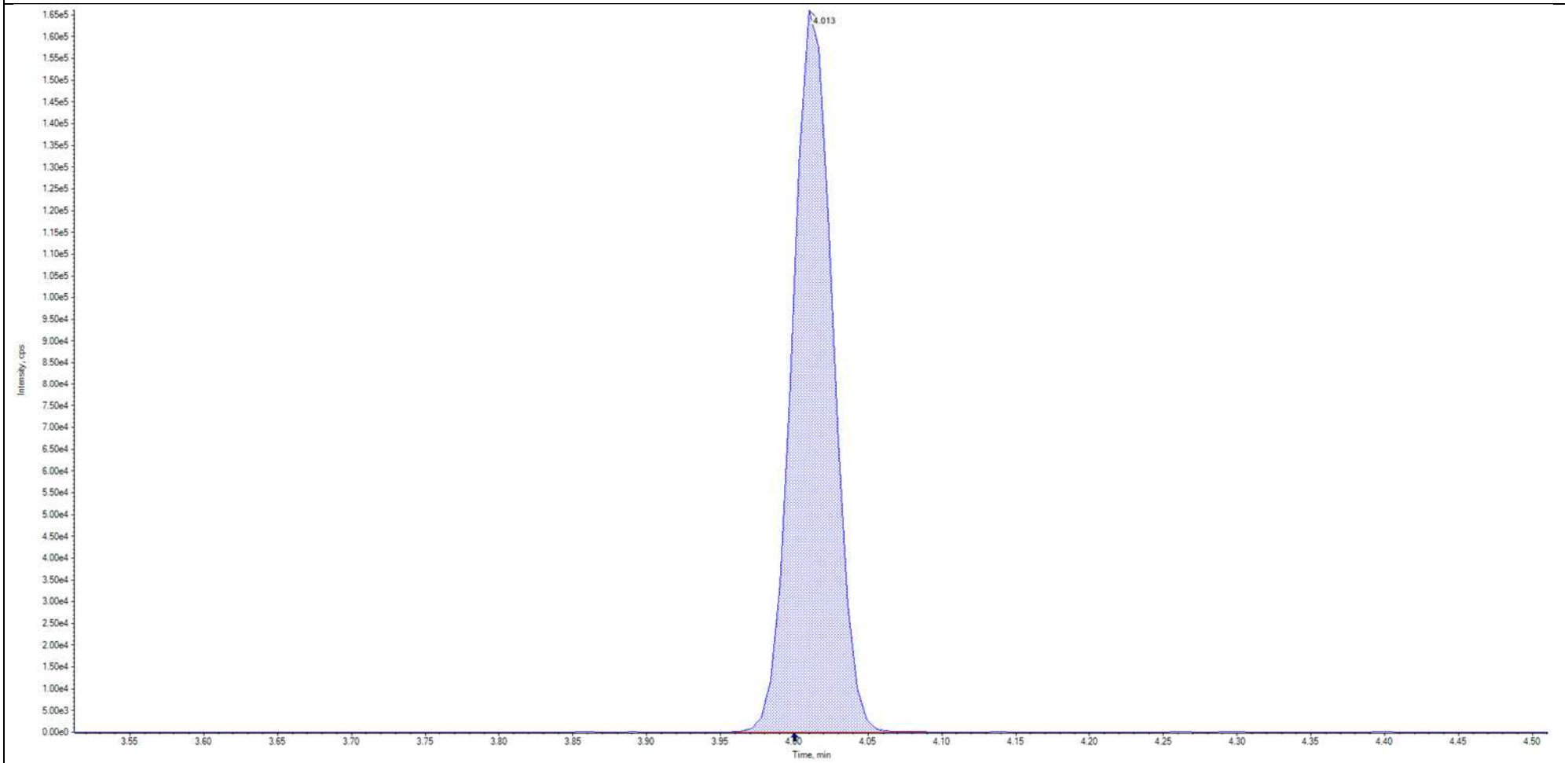


13C3-PFHxS
Sample: WG2038443-1R



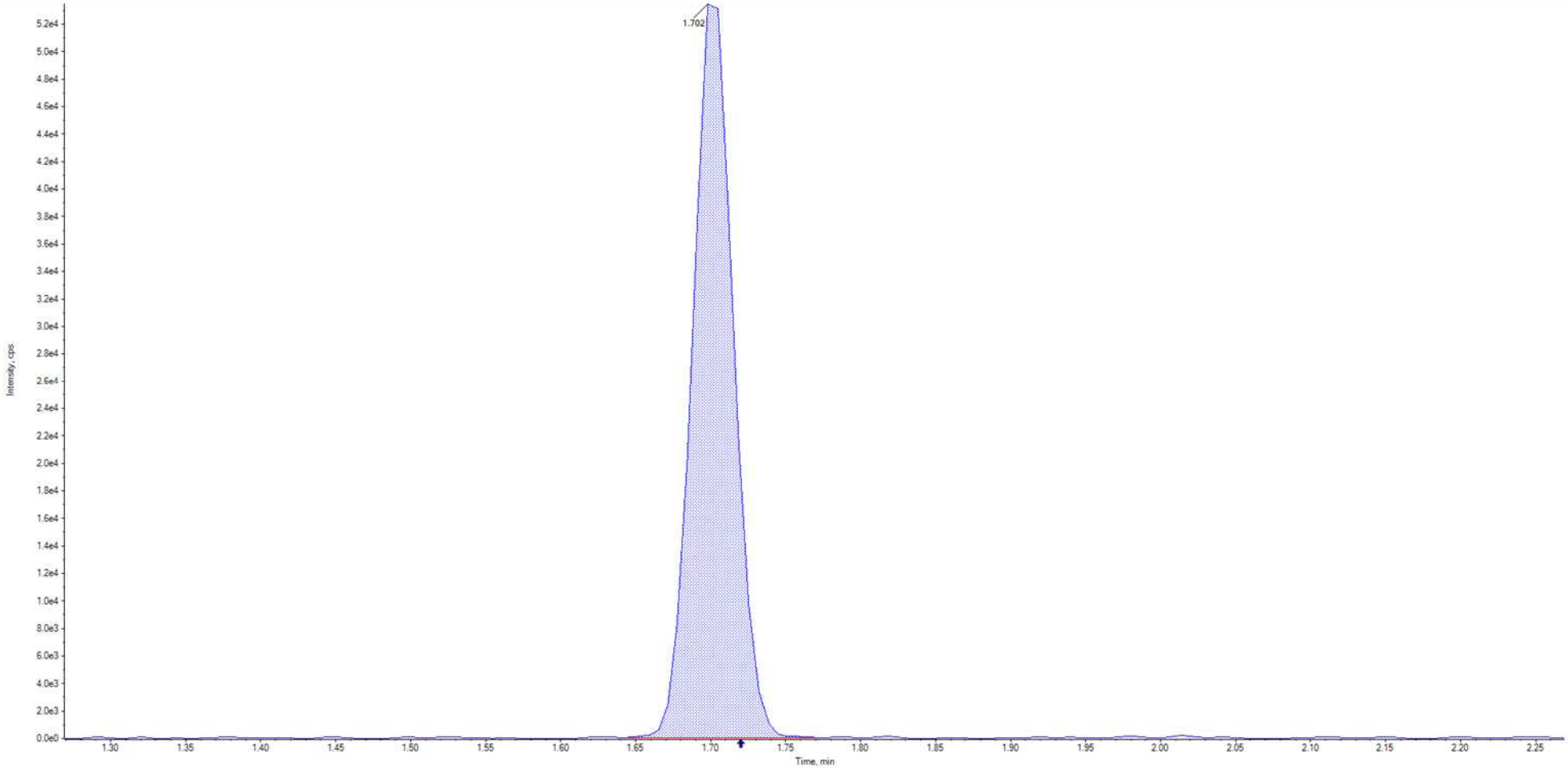
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13C8-PFOS
Sample: WG2038443-1R



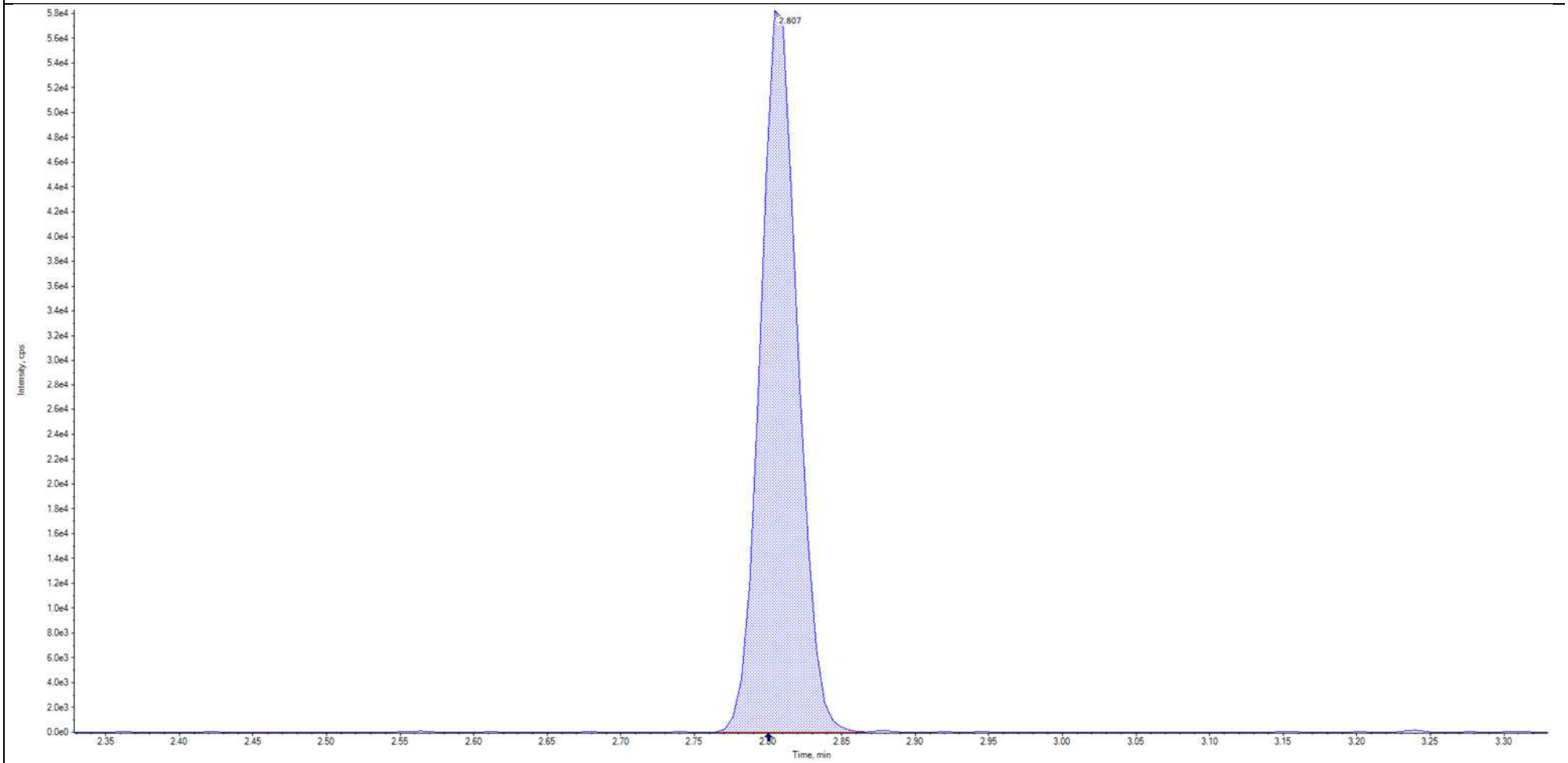
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13C2-4:2FTS
Sample: WG2038443-1R

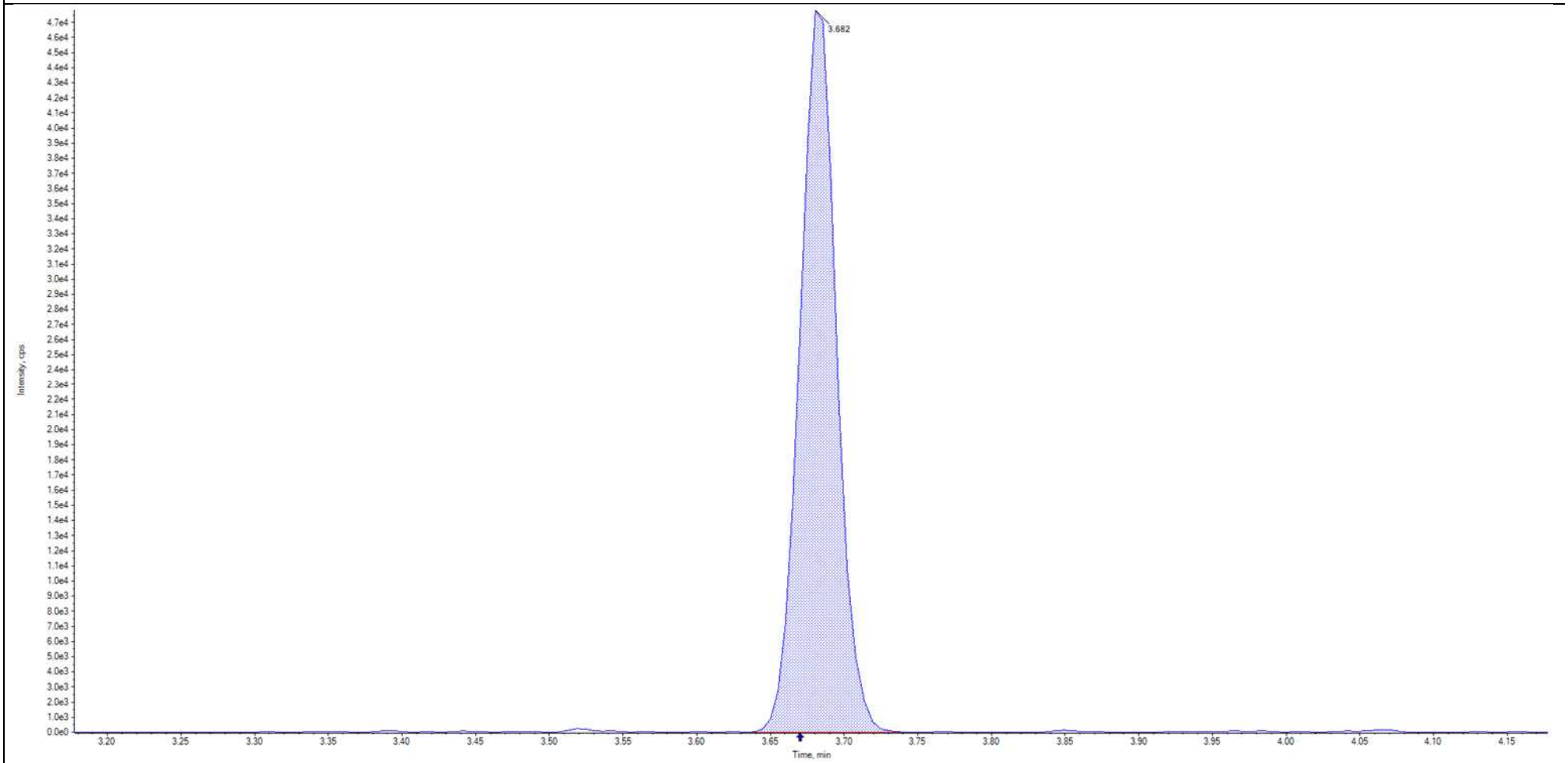


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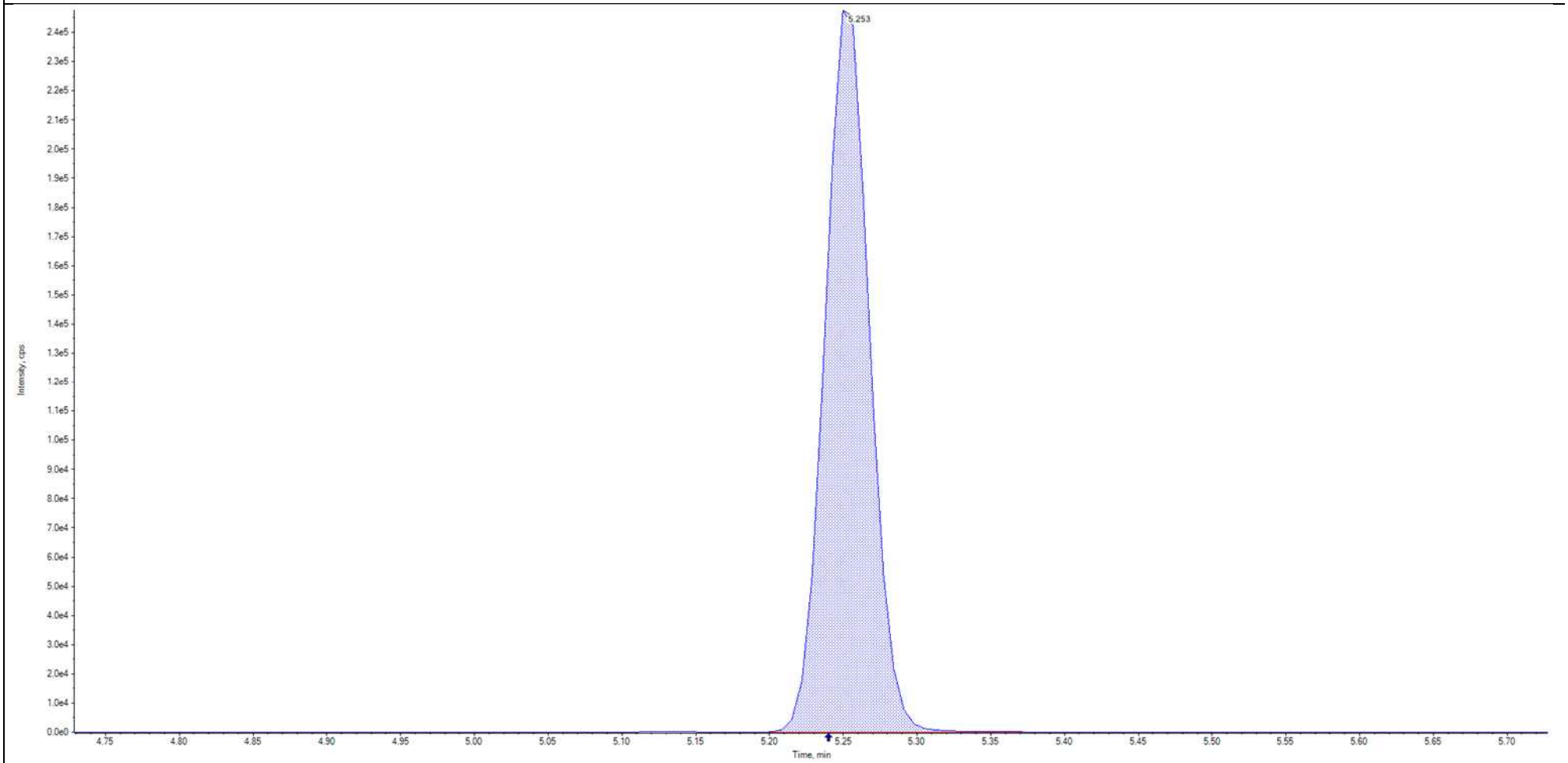
13C2-6:2FTS
Sample: WG2038443-1R



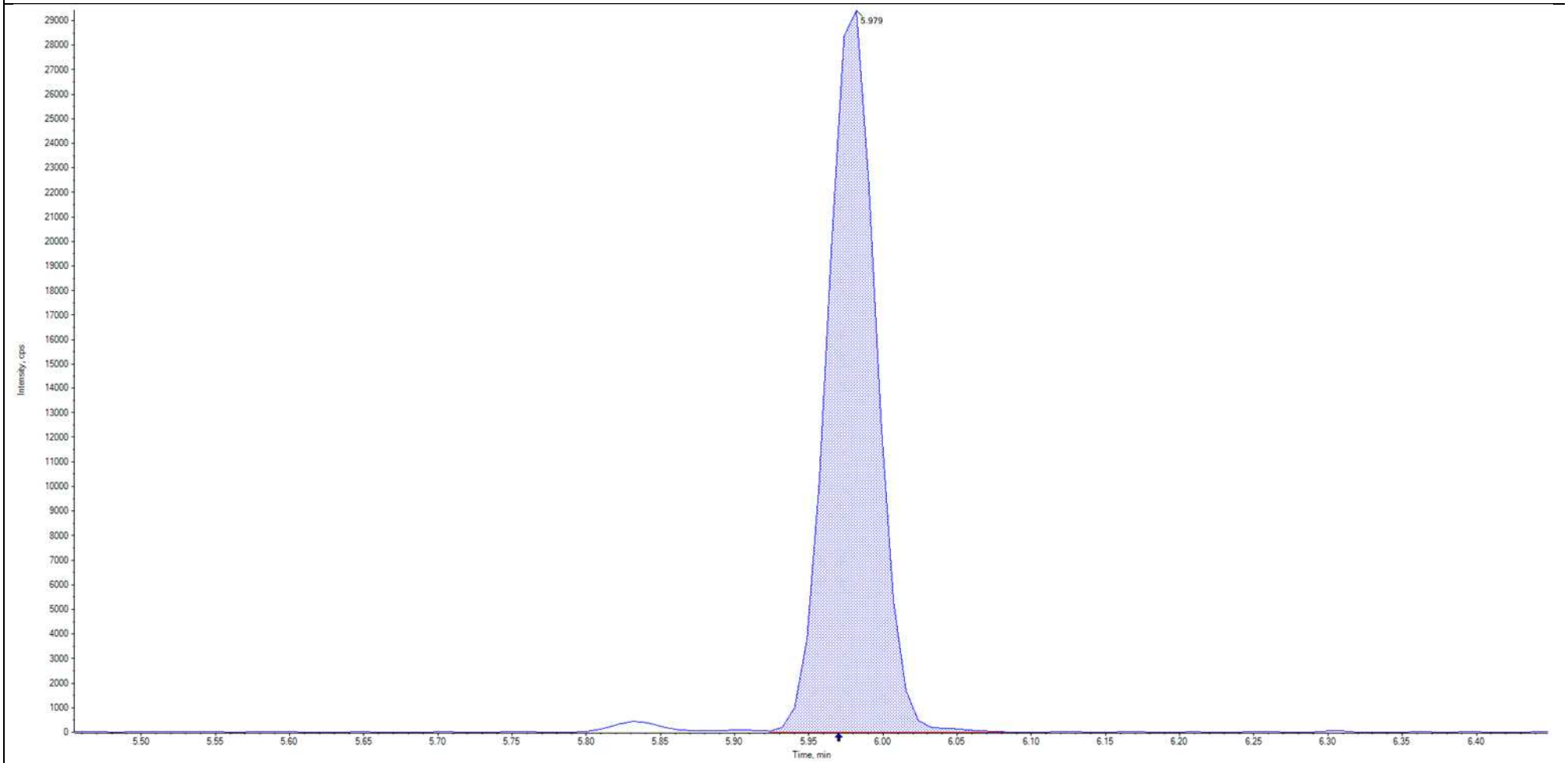
13C2-8:2FTS
Sample: WG2038443-1R



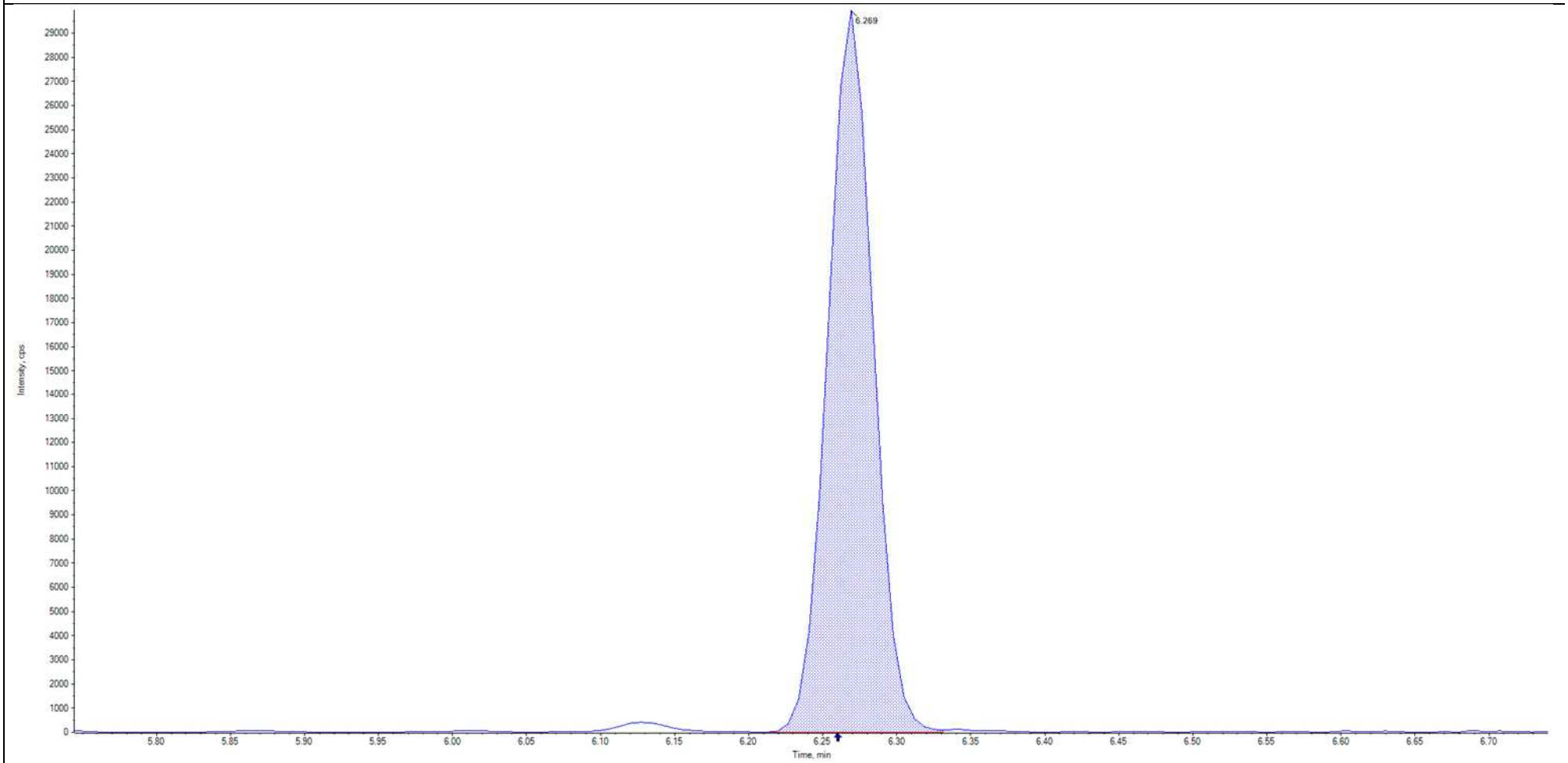
13C8-PFOSA
Sample: WG2038443-1R



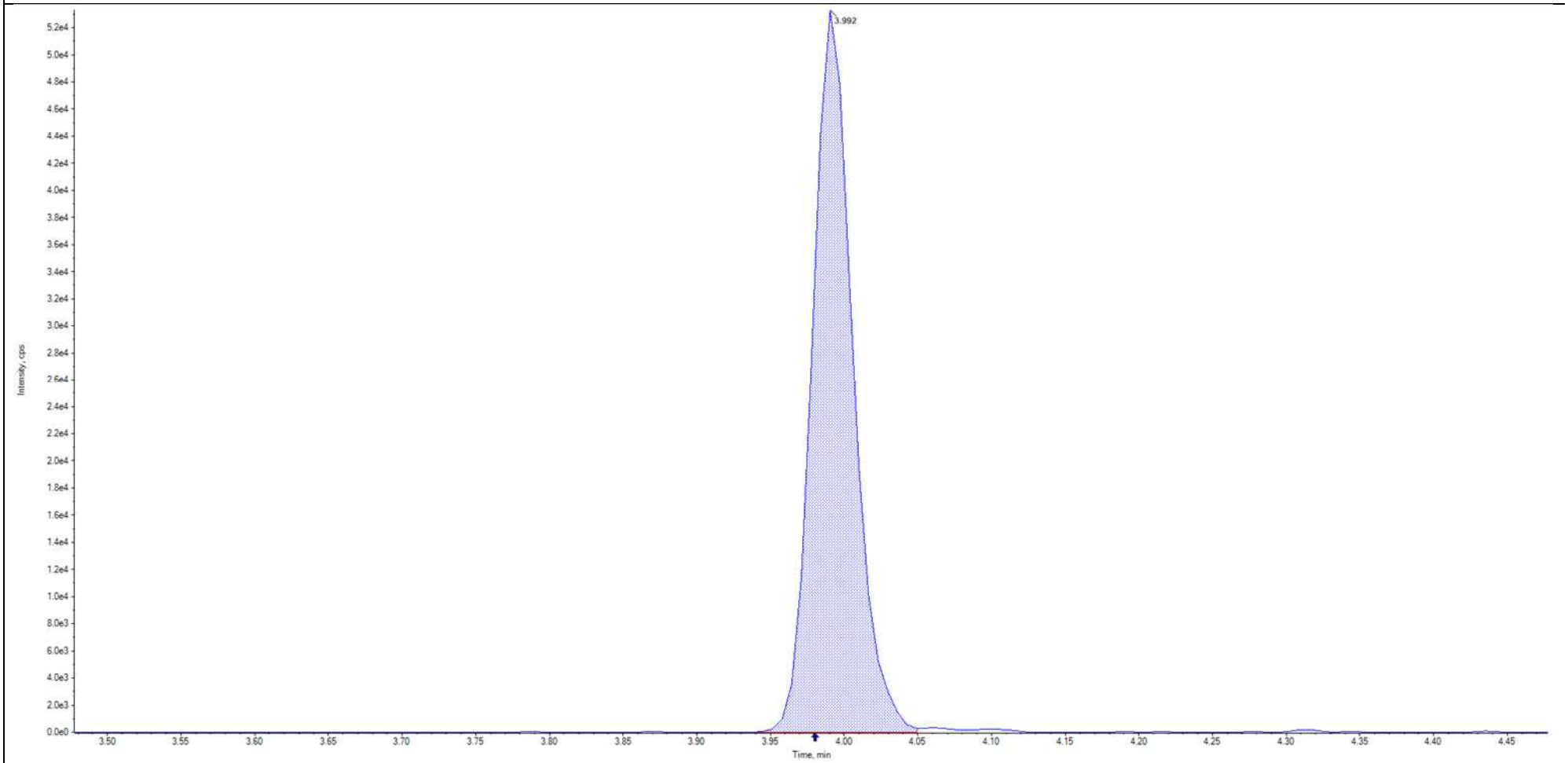
d3-NMeFOSA
Sample: WG2038443-1R



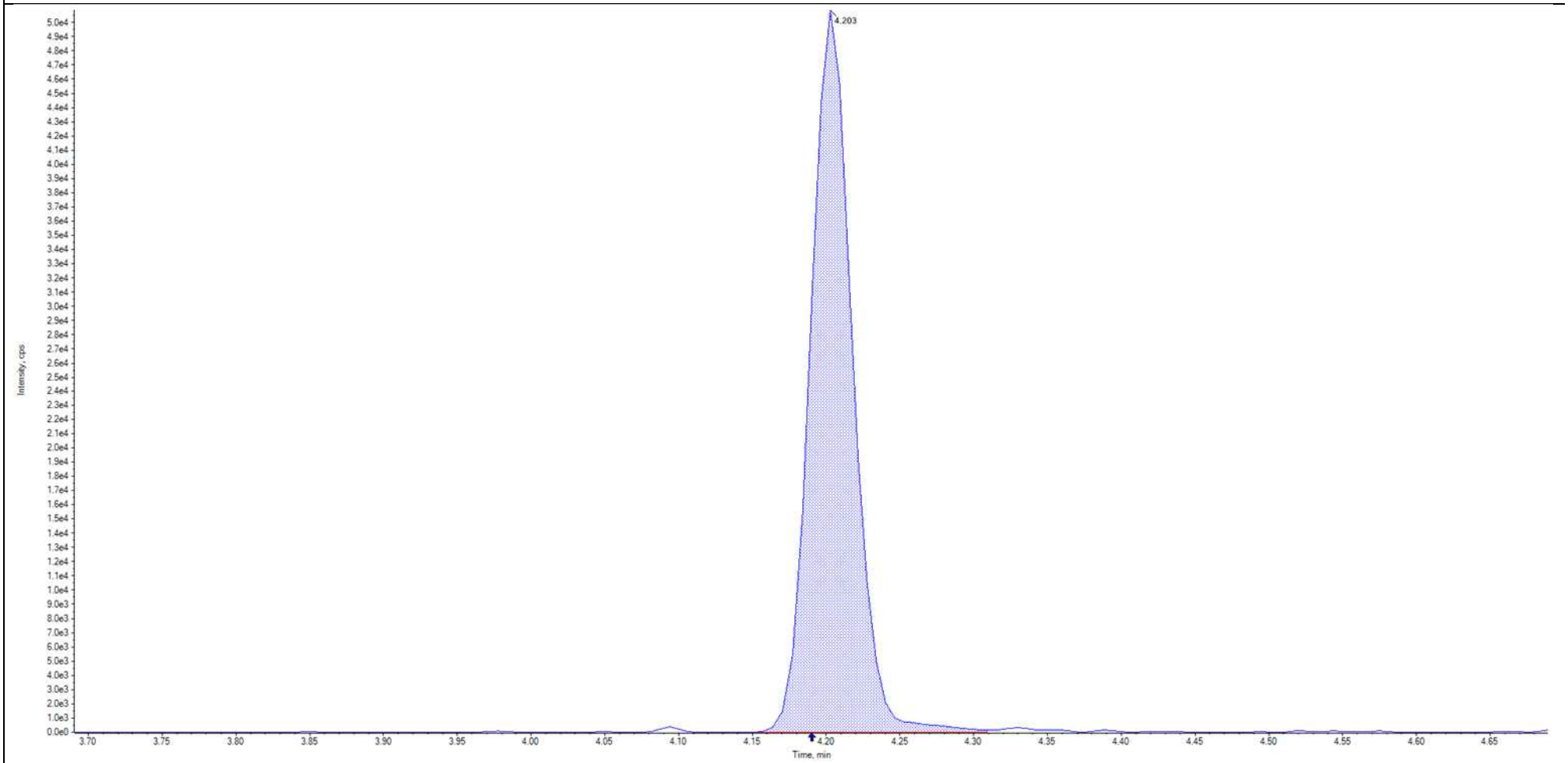
d5-NEtFOSA
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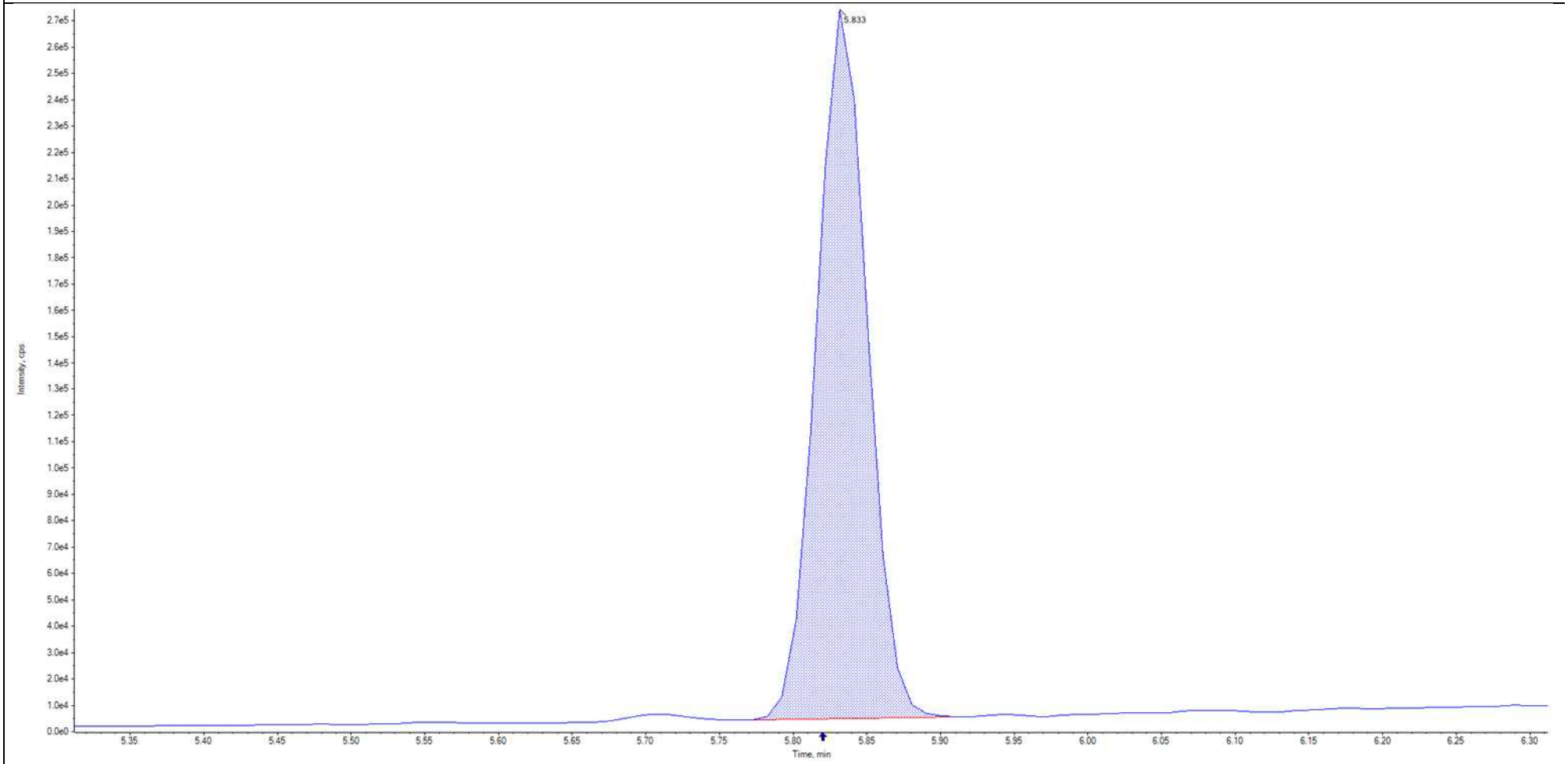
d3-NMeFOSAA
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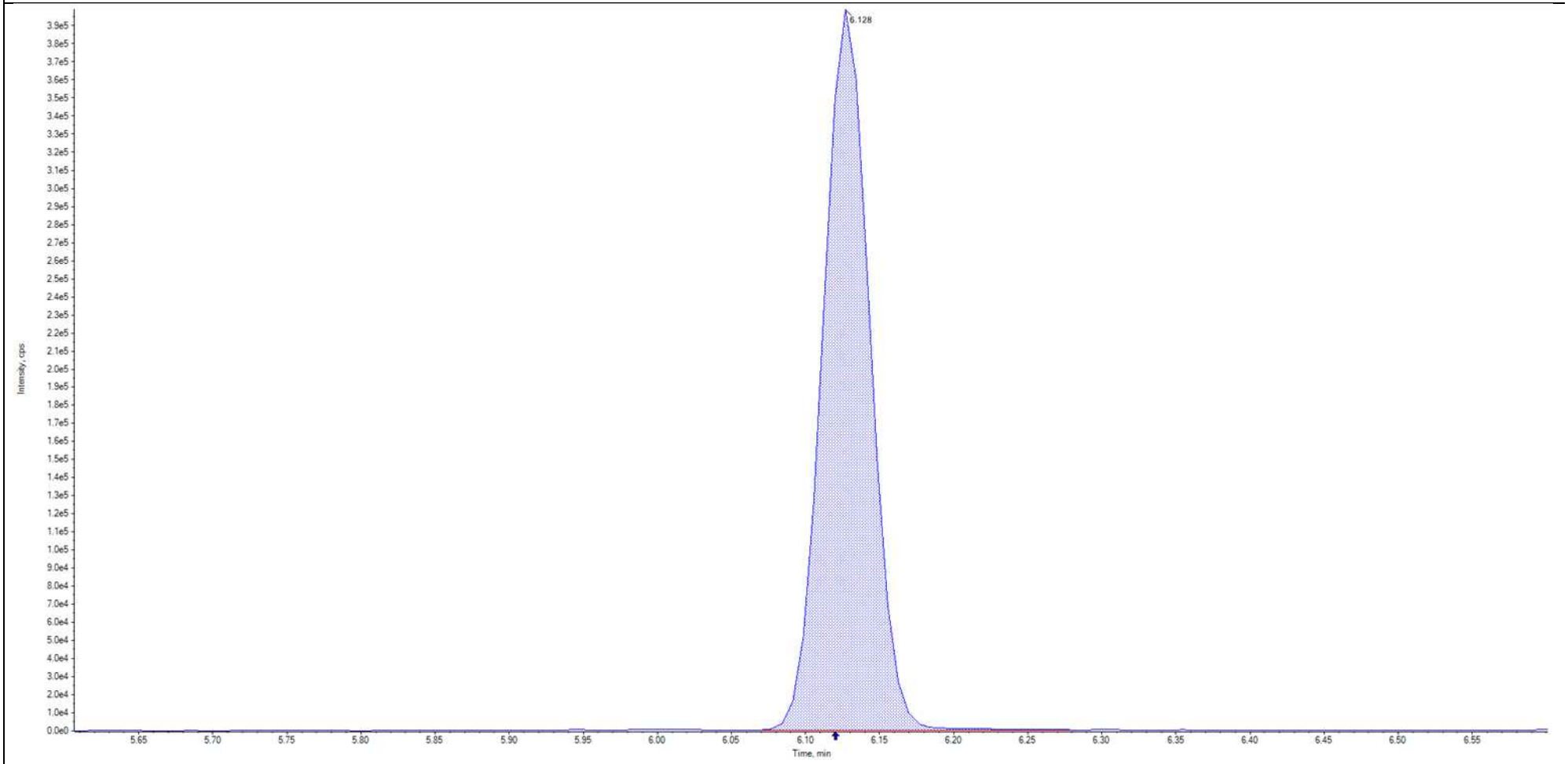
d5-NEtFOSAA
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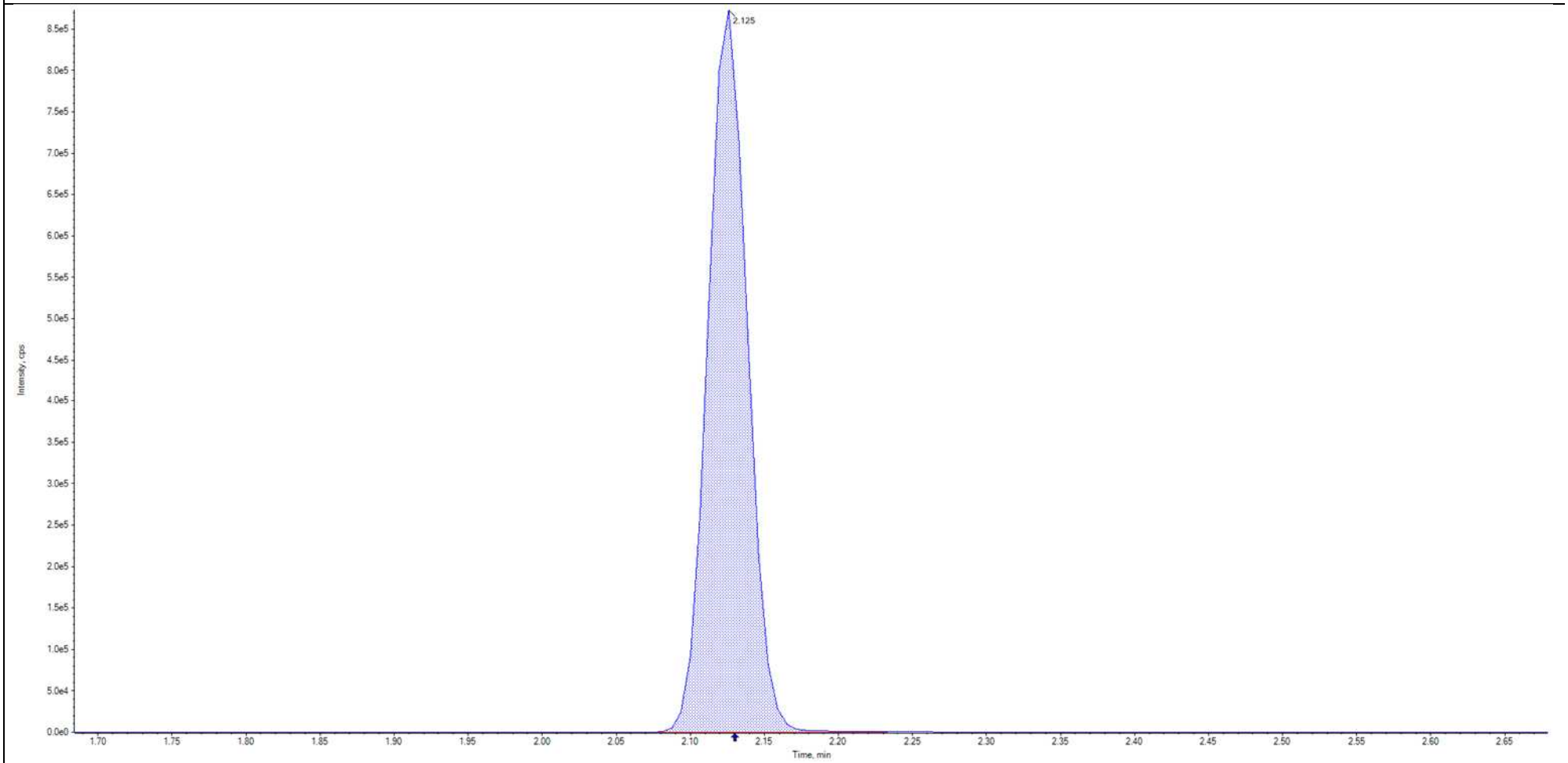
d7-NMeFOSE
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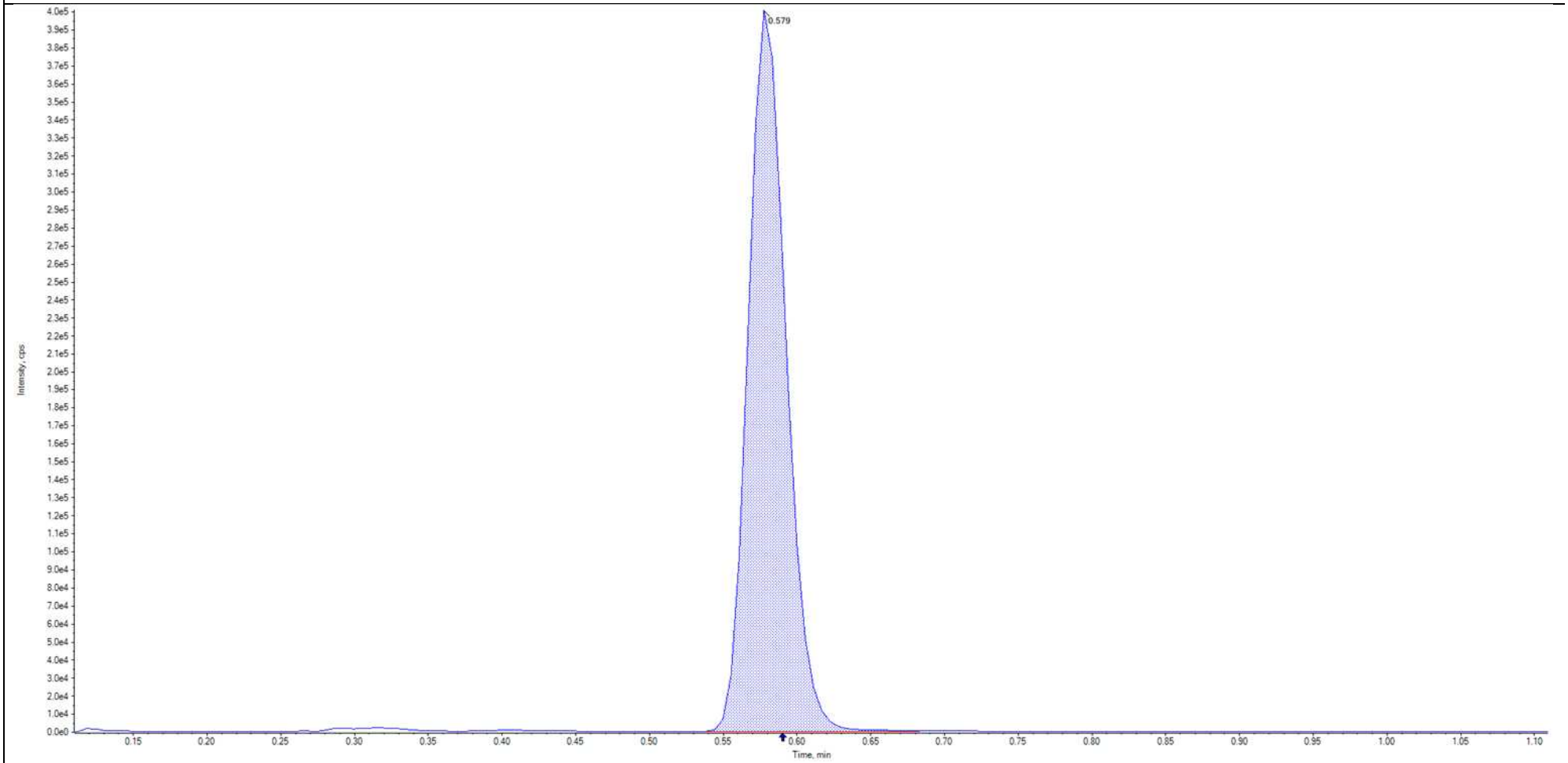
d9-NEtFOSE
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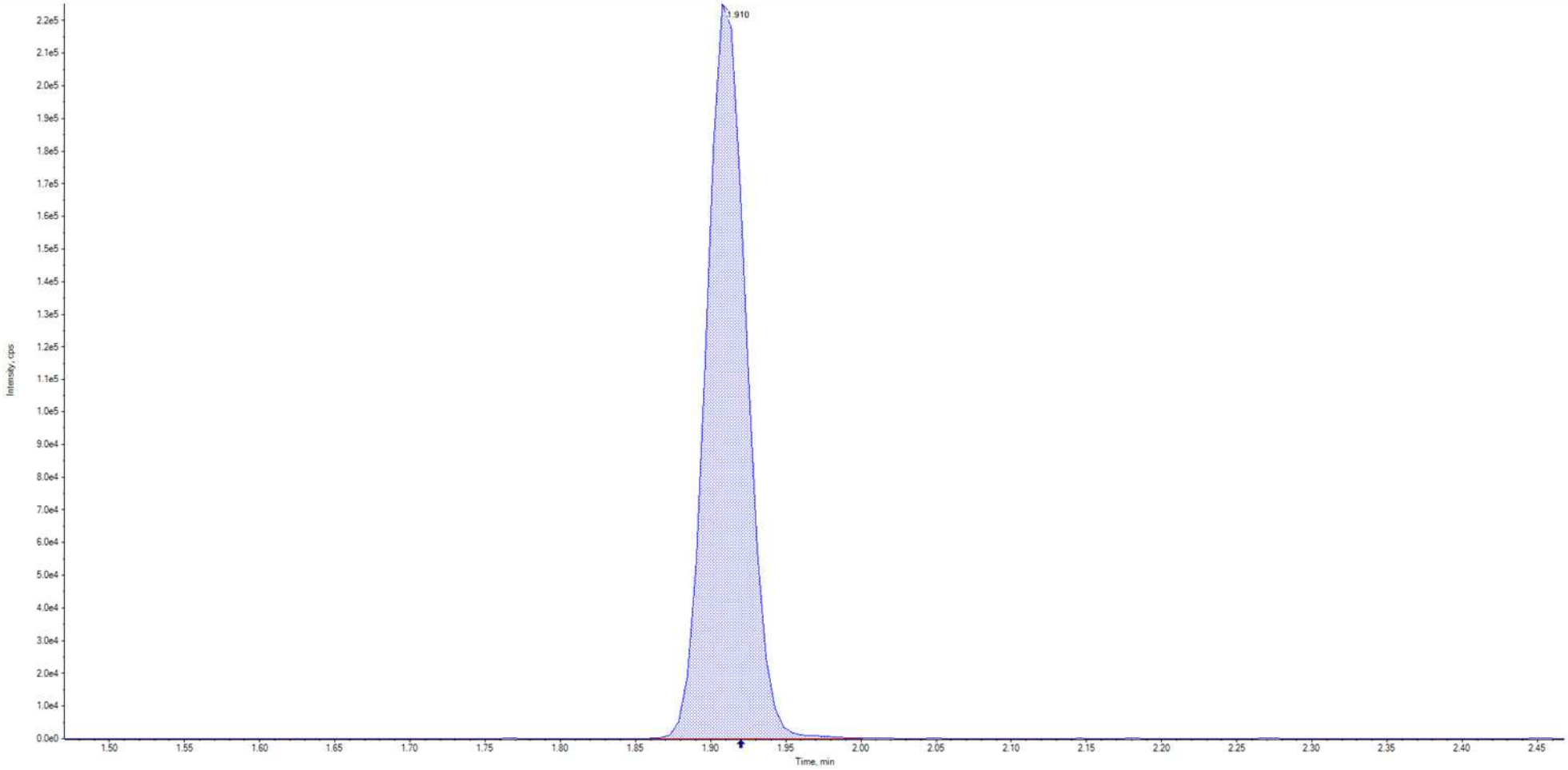
13C3-HFPO-DA
Sample: WG2038443-1R



13C3-PFBA
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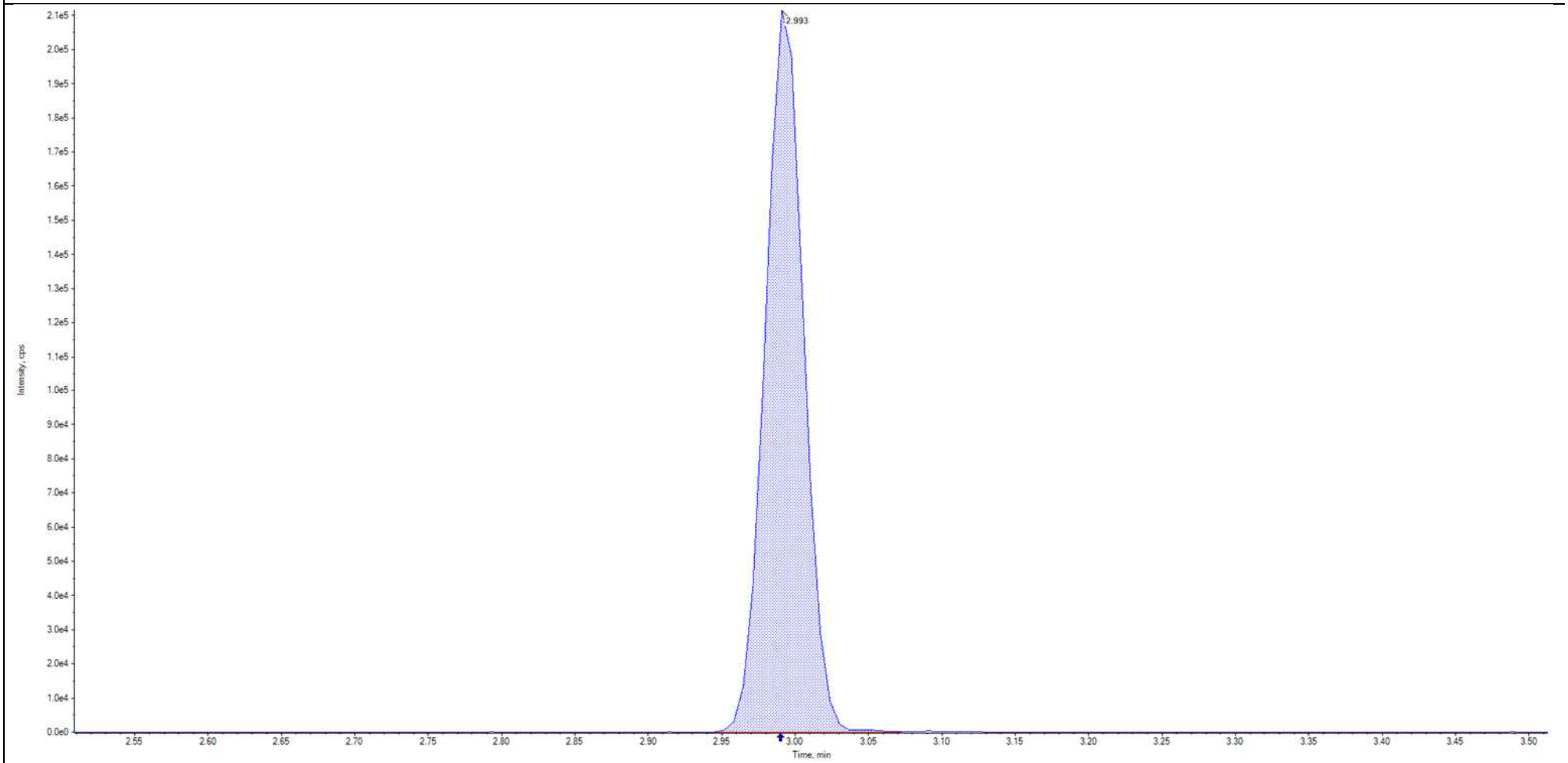


13C2-PFHxA
Sample: WG2038443-1R



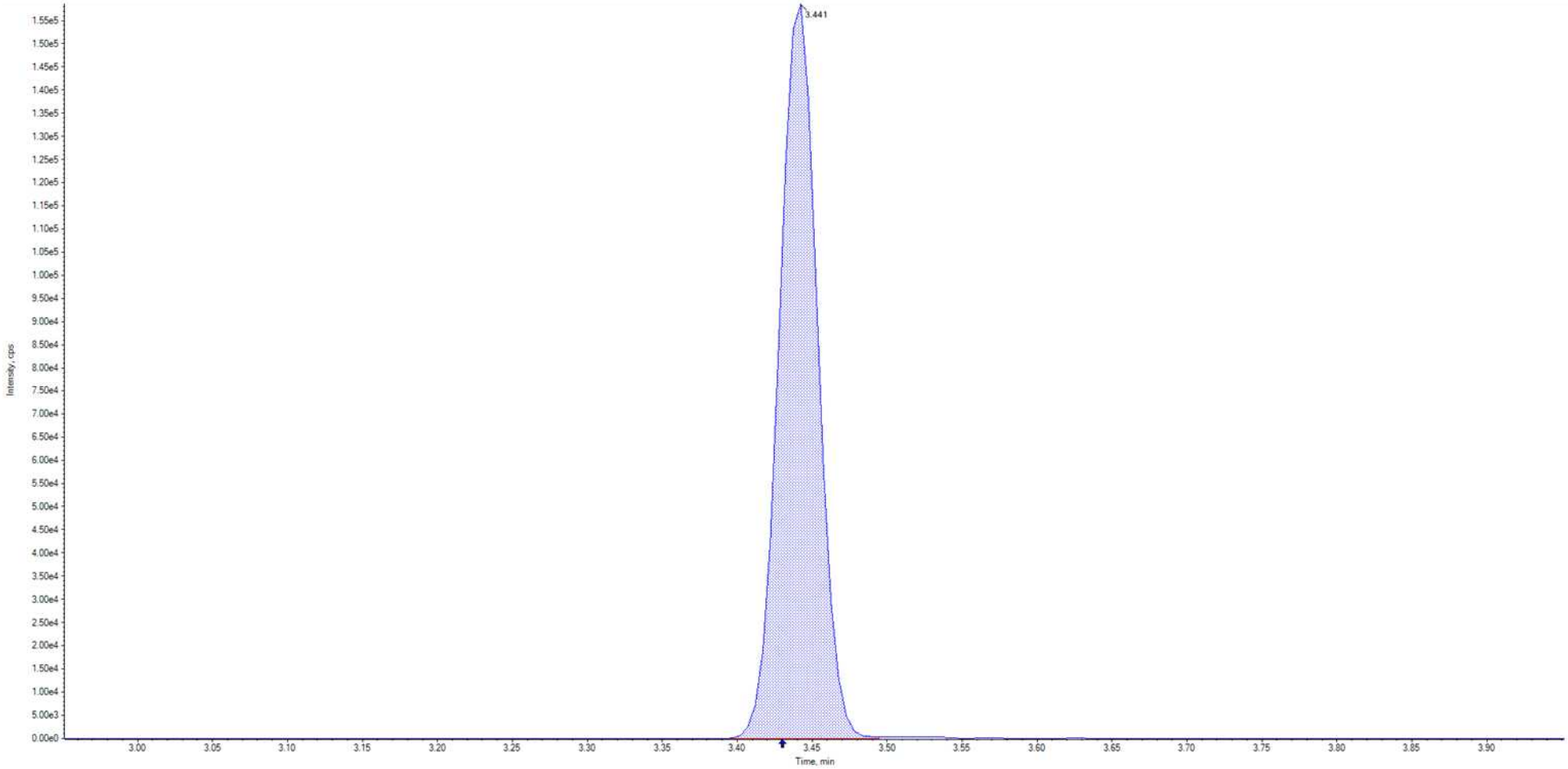
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13C4-PFOA
Sample: WG2038443-1R



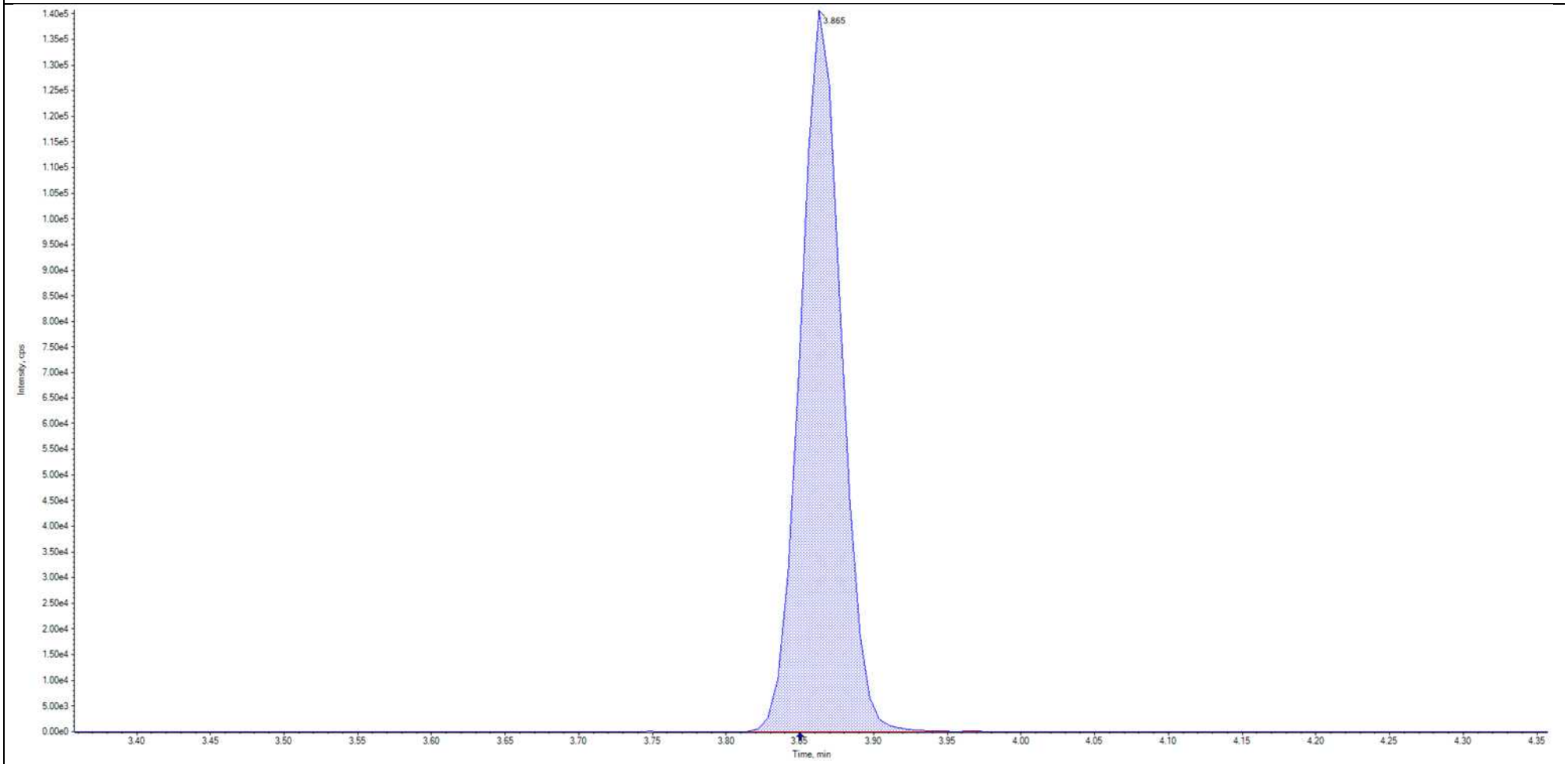
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13C5-PFNA
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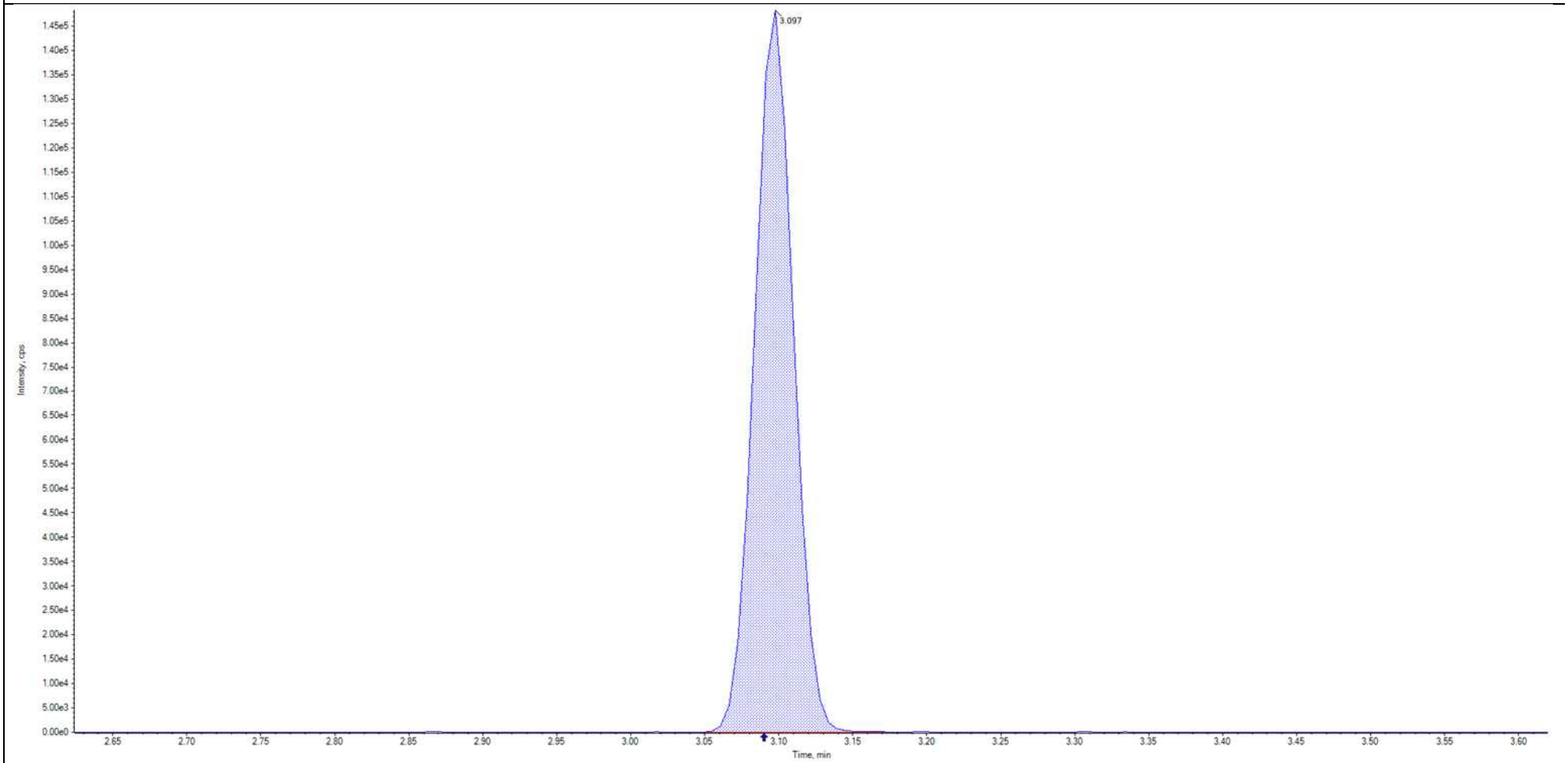


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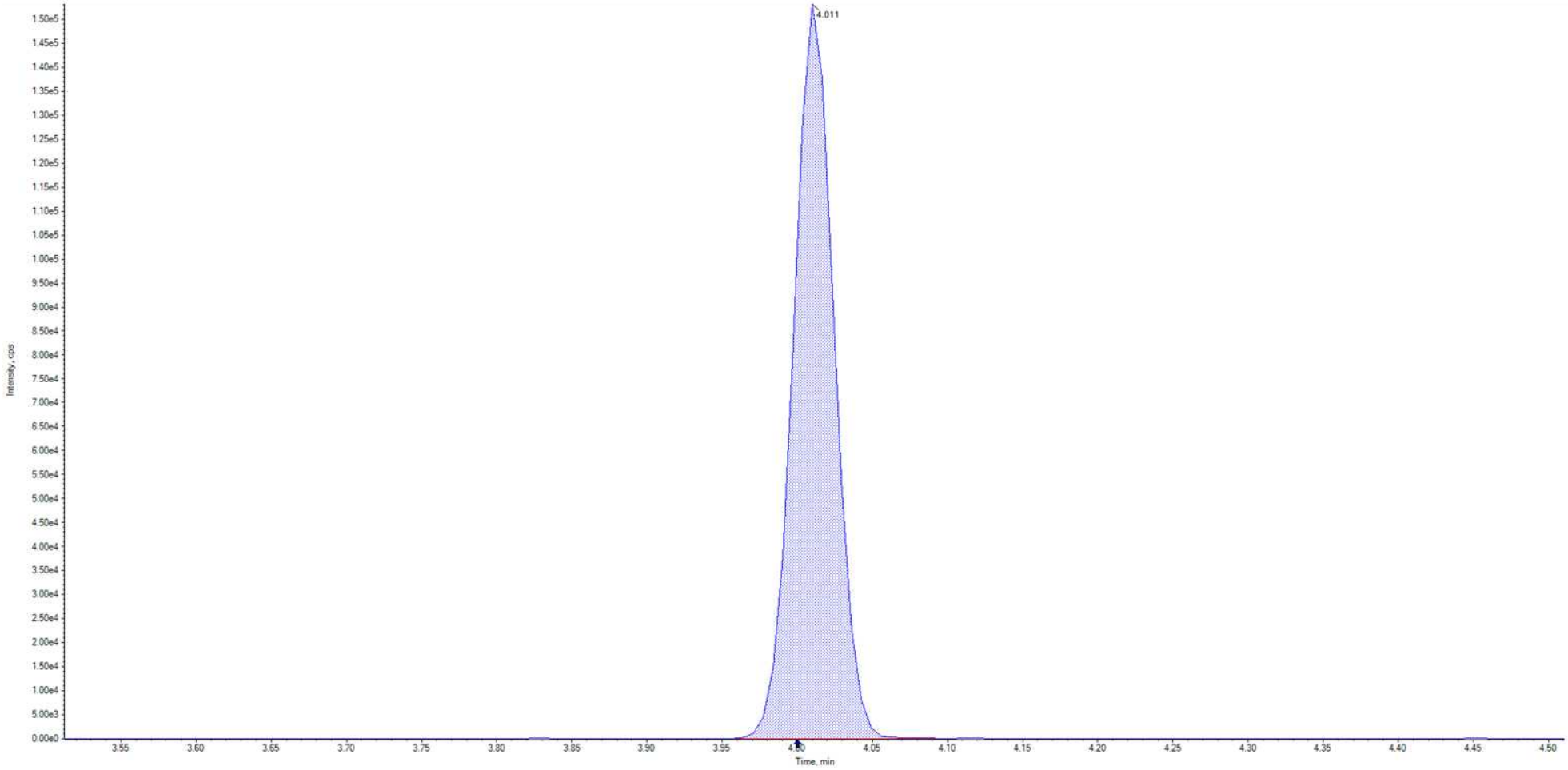
13C2-PFDA
Sample: WG2038443-1R



18O2-PFHxS
Sample: WG2038443-1R



13C4-PFOS
Sample: WG2038443-1R



Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_43.wiff2_2
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Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

ID: WG2038443-2R
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Date & Time: 2025-03-11T12:35:23
Description: WG2038851,WG2038443,ICAL22044
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.58	213.0 / 169.0	249519		1.740	N/A	N/A	N/A	108.7
2	PFPeA	2706-90-3	1.16	263.0 / 219.0	112906		0.783	0.006	N/A	N/A	97.8
3	PFPeA_2	2706-90-3	1.16	263.0 / 68.9	668	M2	0.660	0.006	N/A	N/A	82.5
4	PFHxA	307-24-4	1.90	313.0 / 269.0	73404		0.380	0.099	0.081	Pass	95.0
5	PFHxA_2	307-24-4	1.91	313.0 / 119.0	7277		0.443	0.099	0.081	Pass	110.7
6	PFHpA	375-85-9	2.48	363.1 / 319.0	87984		0.376	0.348	0.373	Pass	94.1
7	PFHpA_2	375-85-9	2.48	363.1 / 169.0	30634		0.332	0.348	0.373	Pass	83.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	2.98	413.1 / 369.1	87792	M5	0.382	0.394	0.424	Pass	95.4
9	PFOA_2	335-67-1	2.98	413.1 / 169.0	34615	M5	0.356	0.394	0.424	Pass	88.9
10	PFNA	375-95-1	3.43	462.8 / 418.9	52768	M5	0.348	0.500	0.493	Pass	87.1
11	PFNA_2	375-95-1	3.43	462.8 / 219.0	26382	M5	0.358	0.500	0.493	Pass	89.4
12	PFDA	335-76-2	3.85	513.1 / 469.1	80393		0.419	0.184	0.188	Pass	104.8
13	PFDA_2	335-76-2	3.85	513.1 / 219.0	14756		0.418	0.184	0.188	Pass	104.5
14	PFUnA	2058-94-8	4.25	563.1 / 519.1	78942		0.432	0.145	0.146	Pass	107.9
15	PFUnA_2	2058-94-8	4.25	563.1 / 269.0	11421		0.434	0.145	0.146	Pass	108.6
16	PFDoA	307-55-1	4.64	613.1 / 569.1	87023		0.431	0.124	0.142	Pass	107.8
17	PFDoA_2	307-55-1	4.64	613.1 / 319.0	10831		0.389	0.124	0.142	Pass	97.4
18	PFTrDA	72629-94-8	5.02	663.1 / 619.1	75115		0.424	0.156	0.152	Pass	105.9
19	PFTrDA_2	72629-94-8	5.02	663.1 / 169.0	11681		0.429	0.156	0.152	Pass	107.3
20	PFTeDA	376-06-7	5.39	713.1 / 669.1	69840		0.421	0.167	0.154	Pass	105.3
21	PFTeDA_2	376-06-7	5.39	713.1 / 169.0	11660		0.431	0.167	0.154	Pass	107.7
22	PFBS	375-73-5	1.90	299.1 / 80.1	57006		0.364	0.349	0.374	Pass	102.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.90	299.1 / 99.1	19908		0.364	0.349	0.374	Pass	96.9
24	PFPeS	2706-91-4	2.55	349.1 / 80.1	61291		0.405	0.314	0.314	Pass	107.7
25	PFPeS_2	2706-91-4	2.55	349.1 / 99.1	19263		0.405	0.314	0.314	Pass	107.8
26	PFHxS	355-46-4	3.09	399.1 / 80.1	48260	M5	0.349	0.294	0.306	Pass	95.9
27	PFHxS_2	355-46-4	3.08	399.1 / 99.1	14193	M5	0.355	0.294	0.306	Pass	97.4
28	PFHpS	375-92-8	3.56	449.1 / 80.1	47774		0.404	0.356	0.316	Pass	106.4
29	PFHpS_2	375-92-8	3.56	449.1 / 99.1	16986		0.470	0.356	0.316	Pass	123.6
30	PFOS	1763-23-1	4.00	499.1 / 80.1	57331	M5	0.399	0.252	0.244	Pass	107.2
31	PFOS_2	1763-23-1	4.00	499.1 / 99.1	14427	M5	0.399	0.252	0.244	Pass	107.3
32	PFNS	68259-12-1	4.41	549.1 / 80.1	37103		0.379	0.278	0.294	Pass	98.7
33	PFNS_2	68259-12-1	4.41	549.1 / 99.1	10317		0.369	0.278	0.294	Pass	96.0
34	PFDS	335-77-3	4.80	599.1 / 80.1	37947		0.395	0.280	0.290	Pass	102.2
35	PFDS_2	335-77-3	4.80	599.1 / 99.1	10625		0.391	0.280	0.290	Pass	101.3
36	PFDoS	79780-39-5	5.54	699.2 / 80.1	32504		0.371	0.279	0.256	Pass	95.6
37	PFDoS_2	79780-39-5	5.54	699.2 / 99.1	9065		0.401	0.279	0.256	Pass	103.4

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.70	327.1 / 307.1	47628		1.485	0.609	0.650	Pass	99.0
39	4:2FTS_2	757124-72-4	1.70	327.1 / 81.1	29026		1.402	0.609	0.650	Pass	93.5
40	6:2FTS	27619-97-2	2.79	427.2 / 407.2	46844		1.598	0.659	0.620	Pass	105.0
41	6:2FTS_2	27619-97-2	2.79	427.2 / 81.1	30874		1.644	0.659	0.620	Pass	108.0
42	8:2FTS	39108-34-4	3.66	527.2 / 507.2	36361		1.646	0.658	0.676	Pass	107.2
43	8:2FTS_2	39108-34-4	3.66	527.2 / 81.1	23942		1.574	0.658	0.676	Pass	102.5
44	PFOSA	754-91-6	5.24	498.1 / 78.1	75606	M5	0.414	0.027	0.026	Pass	103.6
45	PFOSA_2	754-91-6	5.23	498.1 / 478.0	2046	M5	0.434	0.027	0.026	Pass	108.5
46	NMeFOSA	31506-32-8	5.97	512.2 / 219.0	13871	M5	0.424	1.475	1.377	Pass	106.1
47	NMeFOSA_2	31506-32-8	5.91	512.2 / 169.0	20457	M5	0.450	1.475	1.377	Pass	112.6
48	NEtFOSA	4151-50-2	6.26	526.2 / 219.0	13280	M5	0.428	1.186	1.292	Pass	106.9
49	NEtFOSA_2	4151-50-2	6.21	526.2 / 169.0	15751	M5	0.407	1.186	1.292	Pass	101.6
50	NMeFOSAA	2355-31-9	3.98	570.2 / 419.1	7614		0.425	0.851	0.697	Pass	106.2
51	NMeFOSAA_2	2355-31-9	3.98	570.2 / 483.0	6478	M5	0.503	0.851	0.697	Pass	125.7
52	NEtFOSAA	2991-50-6	4.19	584.2 / 419.1	7361	M5	0.352	0.763	0.557	Pass	88.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.19	584.2 / 526.2	5615	M5	0.487	0.763	0.557	Pass	121.7
54	NMeFOSE	24448-09-7	5.83	616.1 / 58.9	229010	M5	3.822	N/A	N/A	N/A	95.6
55	NEtFOSE	1691-99-2	6.13	630.0 / 58.9	318270	M5	3.773	N/A	N/A	N/A	94.3
56	HFPO-DA	13252-13-6	2.11	285.0 / 169.0	241562		1.622	0.546	0.501	Pass	101.4
57	HFPO-DA_2	13252-13-6	2.12	285.0 / 184.9	131907		1.680	0.546	0.501	Pass	105.0
58	ADONA	919005-14-4	2.67	376.9 / 251.0	509940		1.480	0.581	0.691	Pass	97.9
59	ADONA_2	919005-14-4	2.67	376.9 / 84.8	296295		1.298	0.581	0.691	Pass	85.8
60	9Cl-PF3ONS	756426-58-1	4.28	530.8 / 351.1	402669		1.643	0.348	0.332	Pass	110.1
61	9Cl-PF3ONS_2	756426-58-1	4.28	532.8 / 353.0	139988		1.719	0.348	0.332	Pass	115.2
62	11Cl-PF3OUdS	763051-92-9	5.07	630.9 / 451.0	334931		1.616	0.312	0.322	Pass	107.2
63	11Cl-PF3OUdS_2	763051-92-9	5.07	632.9 / 452.9	104505		1.571	0.312	0.322	Pass	104.2
64	3:3FTCA	356-02-5	1.63	241.1 / 177.1	21786		1.956	1.075	1.010	Pass	97.8
65	3:3FTCA_2	356-02-5	1.63	241.1 / 117.0	23417		1.936	1.075	1.010	Pass	96.8
66	5:3FTCA	914637-49-3	3.03	341.1 / 237.1	444894		9.206	1.039	1.017	Pass	92.1
67	5:3FTCA_2	914637-49-3	3.03	341.1 / 217.0	462346		9.496	1.039	1.017	Pass	95.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.06	441.1 / 316.9	316382		7.692	1.407	1.343	Pass	76.9
69	7:3FTCA_2	812-70-4	4.06	441.1 / 337.1	445030		8.185	1.407	1.343	Pass	81.9
70	PFEESA	113507-82-7	2.21	315.1 / 135.0	327363		0.652	0.082	0.081	Pass	91.3
71	PFEESA_2	113507-82-7	2.21	315.1 / 82.9	26717		0.647	0.082	0.081	Pass	90.6
72	PFMPA	377-73-1	0.74	229.0 / 85.0	122128		0.814	N/A	N/A	N/A	101.8
73	PFMBA	863090-89-5	1.42	279.0 / 85.0	137145		0.831	N/A	N/A	N/A	103.8
74	NFDHA	151772-58-6	1.83	295.0 / 201.0	98903		0.752	0.707	0.681	Pass	94.0
75	NFDHA_2	151772-58-6	1.83	295.0 / 84.9	69972		0.752	0.707	0.681	Pass	94.0
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	N/A	333.2 / 312.1	N/A		N/A	N/A	N/A	N/A	N/A
79	13C2-PFOA	Surr	N/A	415.0 / 370.0	N/A		N/A	N/A	N/A	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.58	217.0 / 172.0	1605014		9.906	NA	NA	NA	99.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.16	268.0 / 223.0	751638		4.664	NA	NA	NA	93.3
	13C5-PFHxA	EIS	1.90	318.0 / 273.0	377278		2.490	NA	NA	NA	99.6
	13C4-PFHpA	EIS	2.48	367.0 / 322.0	402635		2.755	NA	NA	NA	110.2
	13C8-PFOA	EIS	2.98	420.8 / 376.0	672716		2.611	NA	NA	NA	104.4
	13C9-PFNA	EIS	3.43	472.0 / 427.0	280927		1.359	NA	NA	NA	108.7
	13C6-PFDA	EIS	3.85	519.0 / 474.0	271129		1.183	NA	NA	NA	94.7
	13C7-PFUnA	EIS	4.25	570.0 / 525.0	270029		1.068	NA	NA	NA	85.4

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.64	615.1 / 570.0	266963		1.049	NA	NA	NA	84.0
	13C2-PFTeDA	EIS	5.38	715.1 / 670.1	182341		1.105	NA	NA	NA	88.4
	13C3-PFBS	EIS	1.90	302.1 / 80.1	343721		2.329	NA	NA	NA	100.0
	13C3-PFHxS	EIS	3.08	402.1 / 80.1	316331		2.411	NA	NA	NA	101.7
	13C8-PFOS	EIS	3.99	507.1 / 80.1	301633		2.203	NA	NA	NA	91.8
	13C2-4:2FTS	EIS	1.69	329.1 / 81.1	97754		4.491	NA	NA	NA	95.8
	13C2-6:2FTS	EIS	2.79	429.2 / 81.1	86729		4.628	NA	NA	NA	97.2
	13C2-8:2FTS	EIS	3.66	529.2 / 81.1	79683		4.534	NA	NA	NA	94.5

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C8-PFOSA	EIS	5.23	506.1 / 78.1	569818		2.621	NA	NA	NA	104.8
	d3-NMeFOSA	EIS	5.96	515.2 / 219.0	72932		1.858	NA	NA	NA	74.3
	d5-NEtFOSA	EIS	6.25	531.2 / 219.0	63722		1.785	NA	NA	NA	71.4
	d3-NMeFOSAA	EIS	3.97	573.2 / 419.1	98602		3.687	NA	NA	NA	73.7
	d5-NEtFOSAA	EIS	4.18	589.3 / 419.1	96500		4.425	NA	NA	NA	88.5
	d7-NMeFOSE	EIS	5.81	623.2 / 58.9	661184		23.416	NA	NA	NA	93.7
	d9-NEtFOSE	EIS	6.11	639.2 / 58.9	892875		23.572	NA	NA	NA	94.3

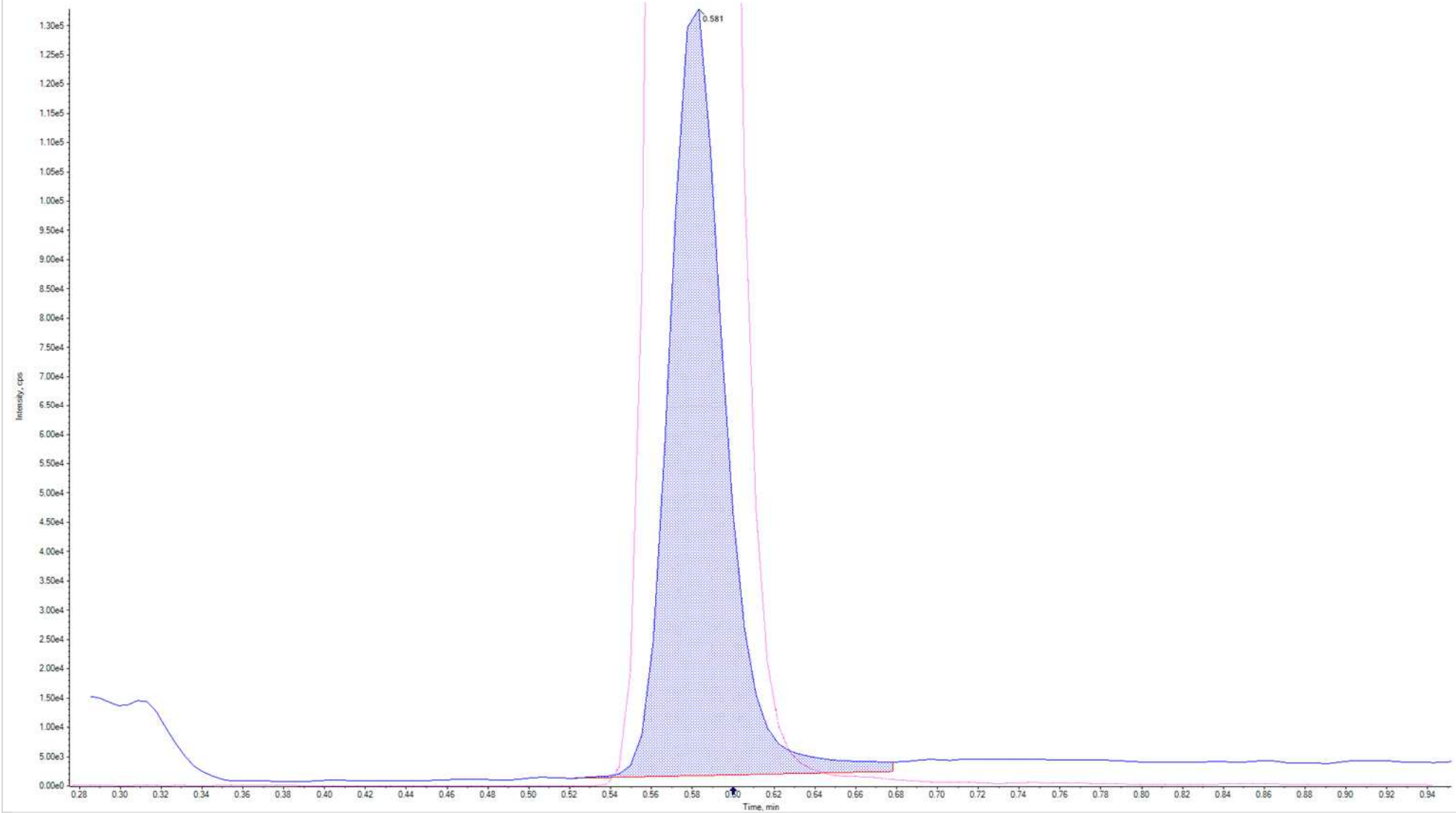
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	13C3-HFPO-DA	EIS	2.11	287.0 / 169.0	1469212		9.168	NA	NA	NA	91.7
	13C3-PFBA	NIS	0.58	216.0 / 172.0	716902		4.946	NA	NA	NA	98.9
	13C2-PFHxA	NIS	1.90	315.0 / 270.0	446134		2.753	NA	NA	NA	110.1
	13C4-PFOA	NIS	2.98	417.0 / 372.0	391568		2.724	NA	NA	NA	108.9
	13C5-PFNA	NIS	3.42	468.0 / 423.0	258978		1.257	NA	NA	NA	100.5
	13C2-PFDA	NIS	3.84	515.1 / 470.1	267426		1.258	NA	NA	NA	100.6
	18O2-PFHxS	NIS	3.08	403.1 / 84.1	275863		2.343	NA	NA	NA	98.9
	13C4-PFOS	NIS	3.99	503.1 / 80.1	275475		2.291	NA	NA	NA	95.5

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Alpha Analytical LLC
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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

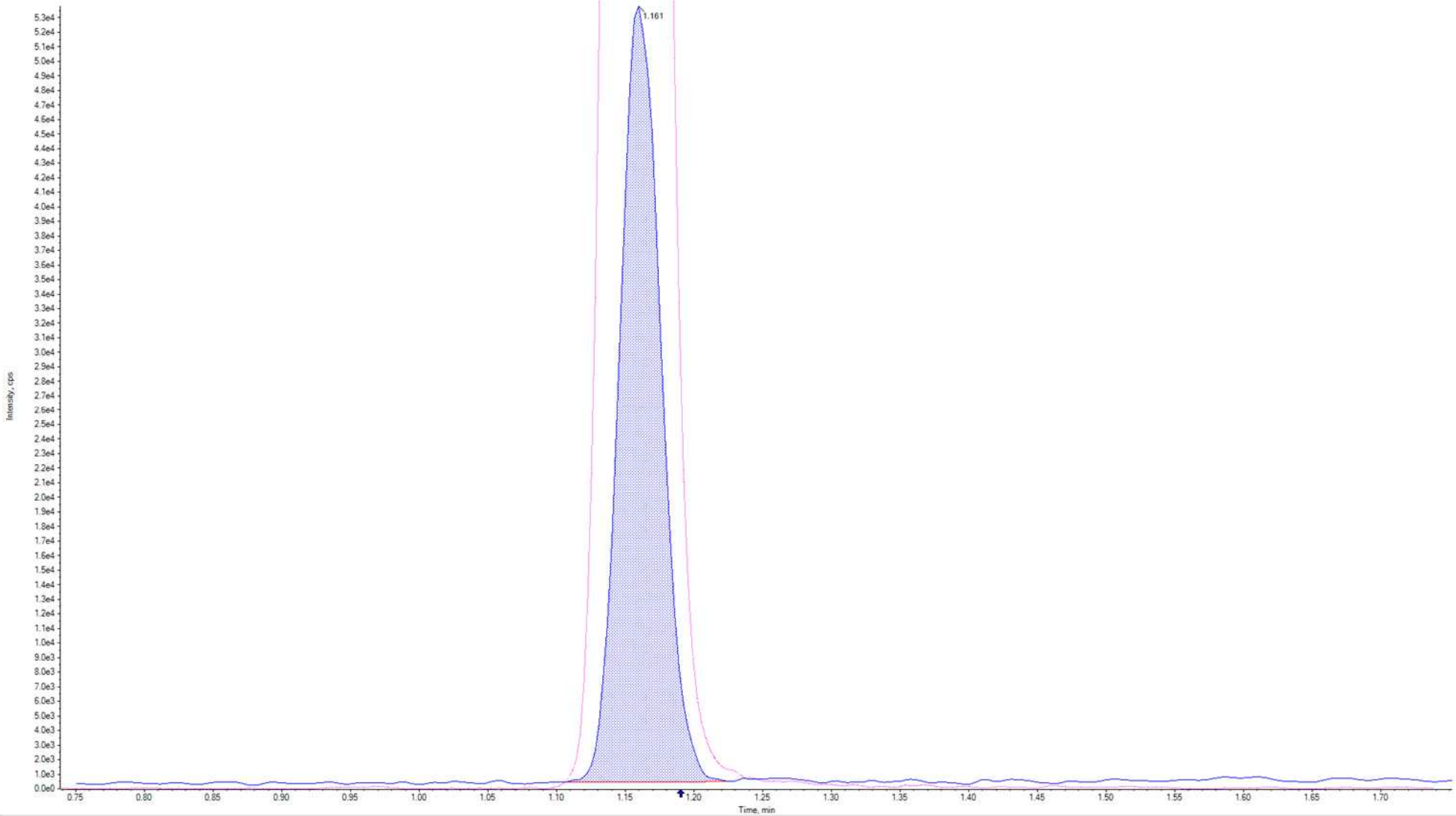
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PFBA
Sample: WG2038443-2R S/N:518.7 Points Across peak:30



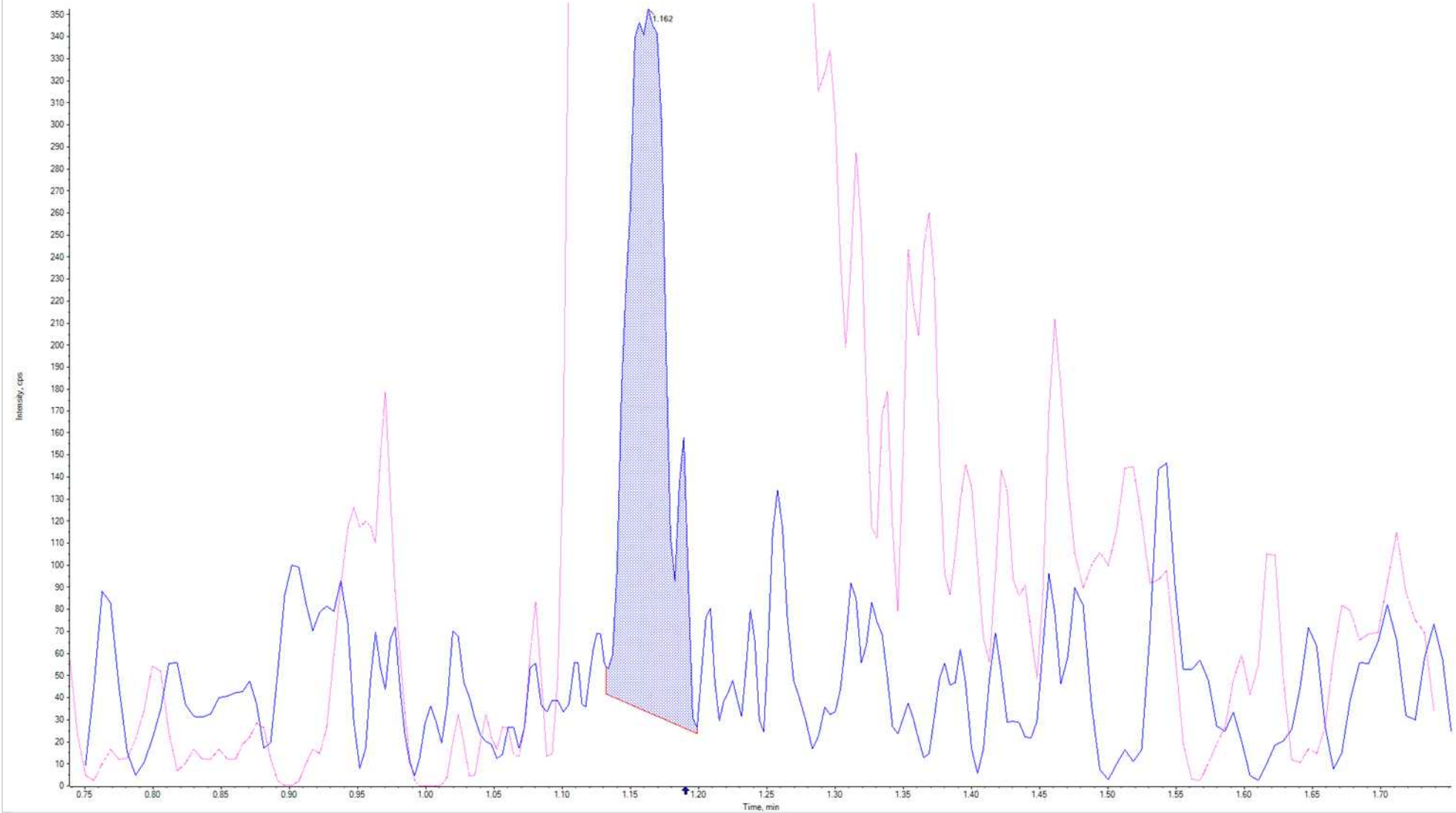
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PFPeA
Sample: WG2038443-2R S/N:975.3 Points Across peak:40



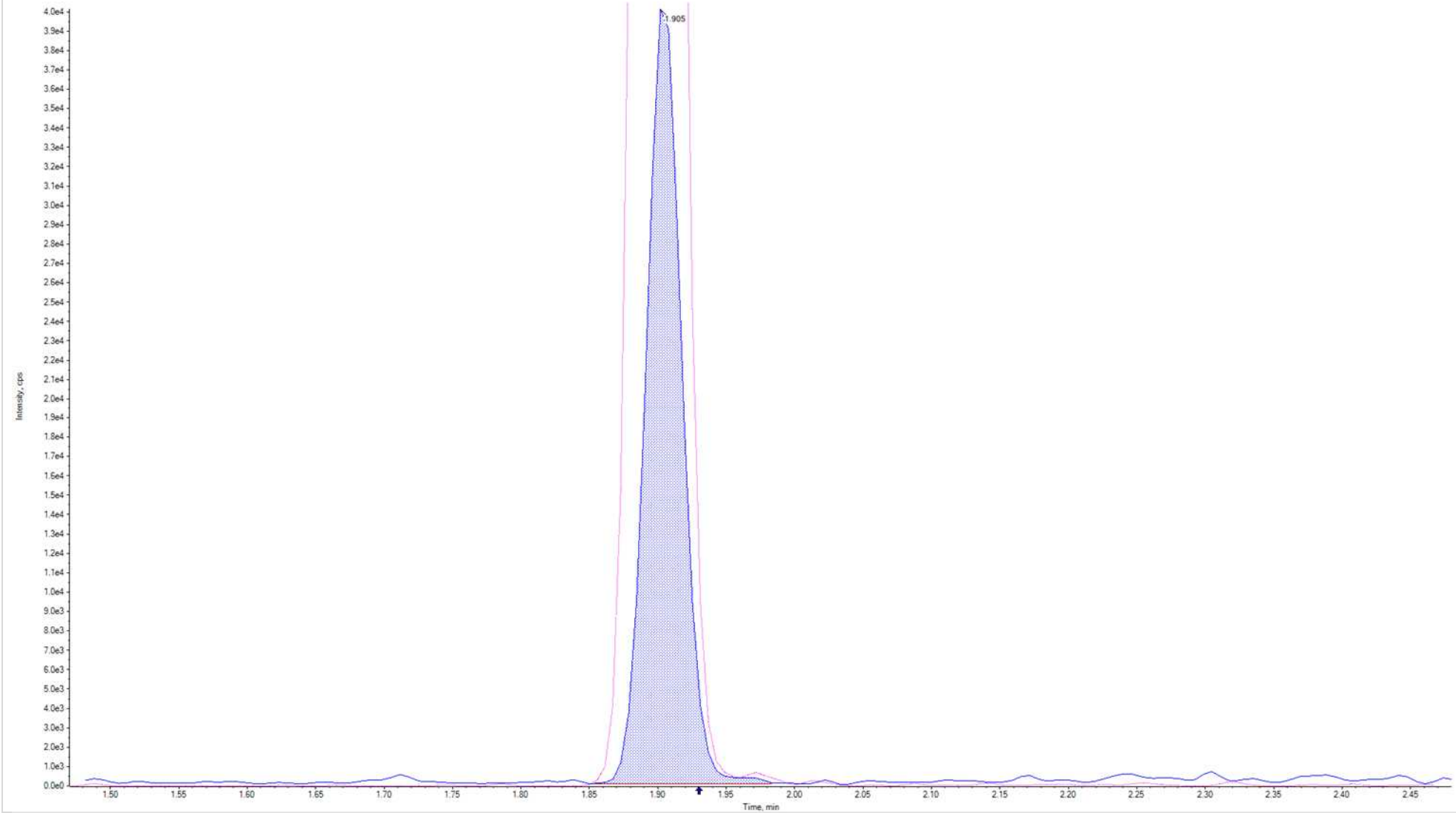
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PFPeA_2
Sample: WG2038443-2R S/N:19.2 Points Across peak:23



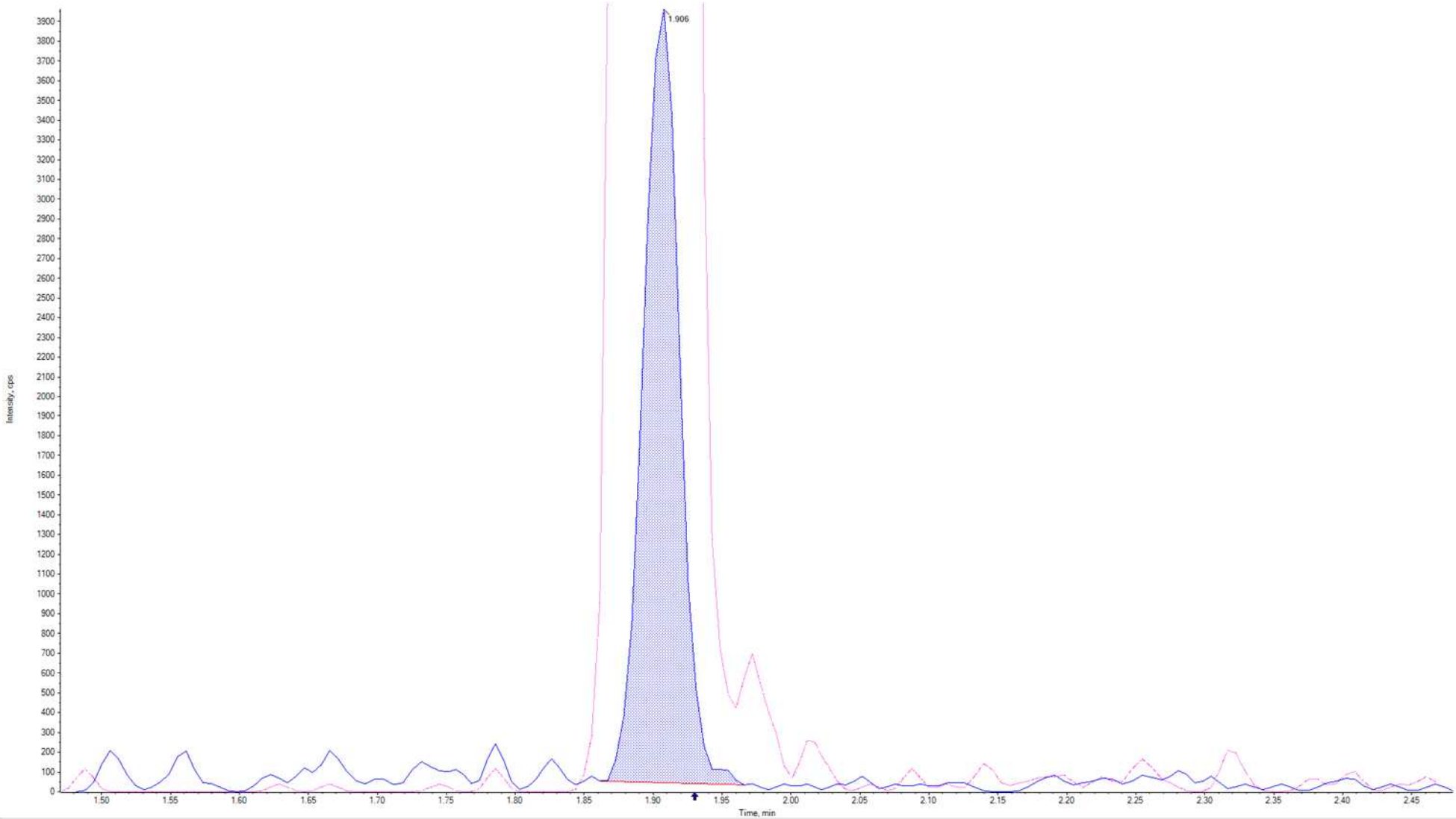
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PFHxA
Sample: WG2038443-2R S/N:837.8 Points Across peak:25



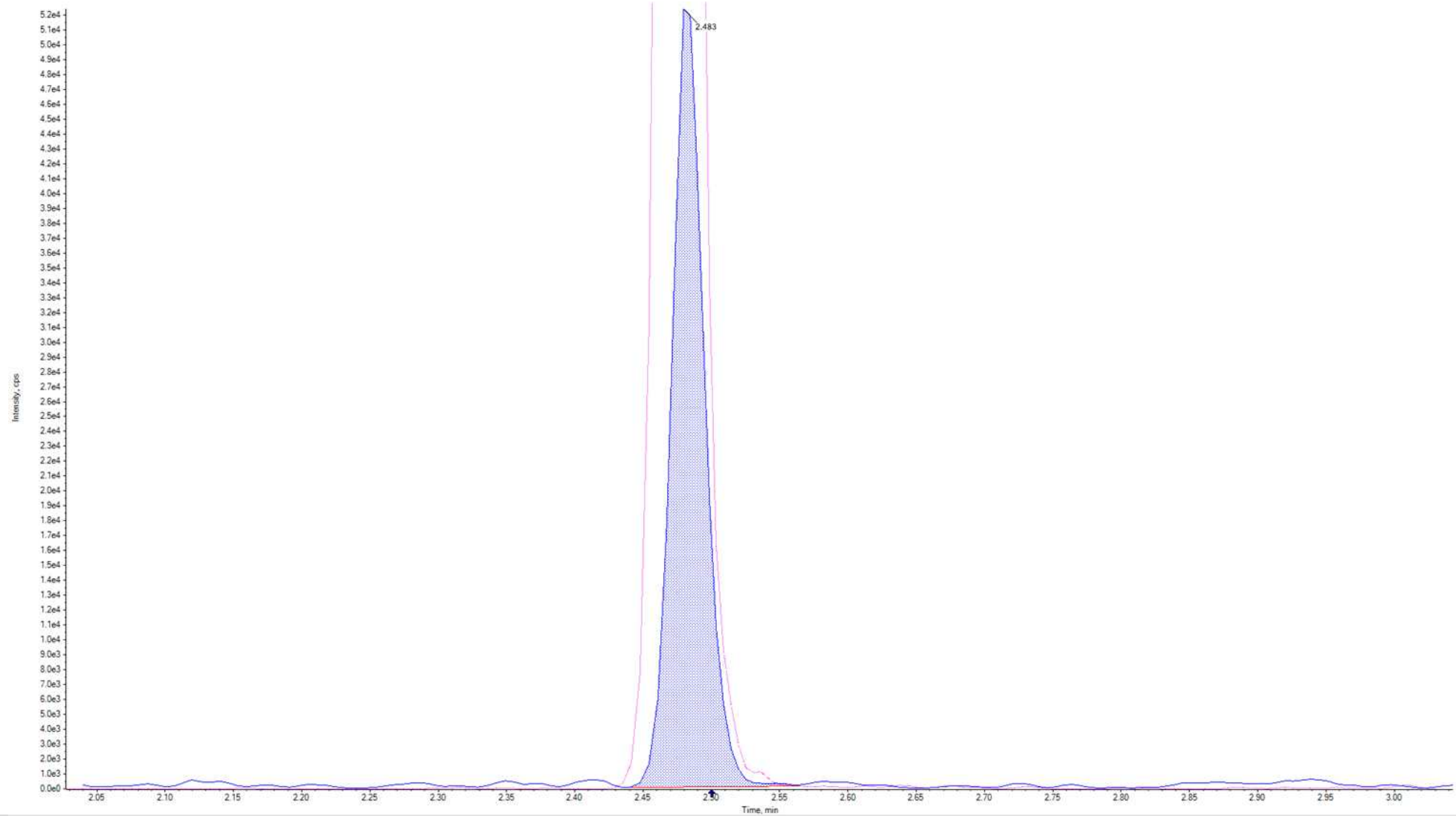
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PFHxA_2
Sample: WG2038443-2R S/N:98.2 Points Across peak:19



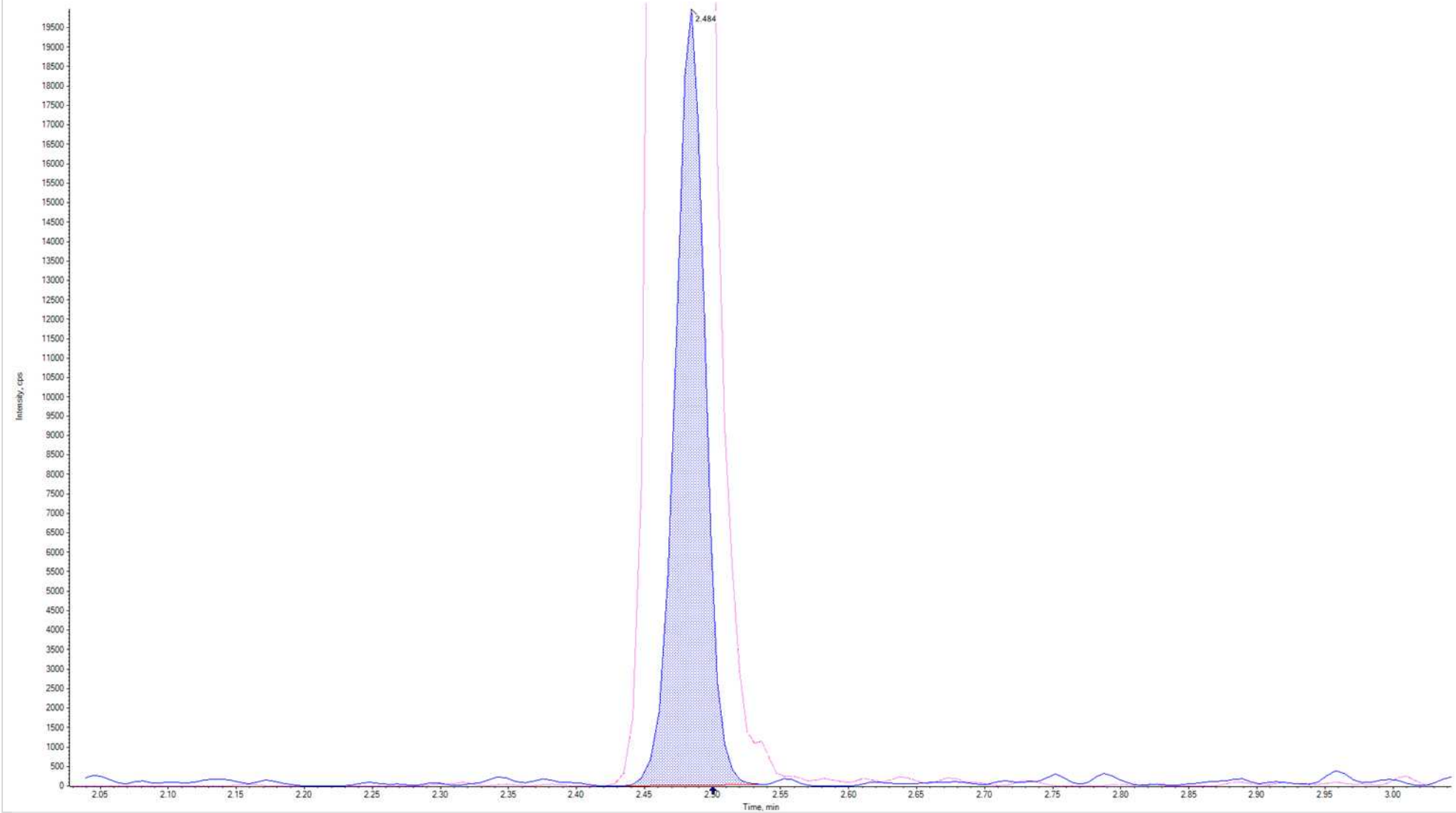
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PFHpA
Sample: WG2038443-2R S/N:1048.4 Points Across peak:24



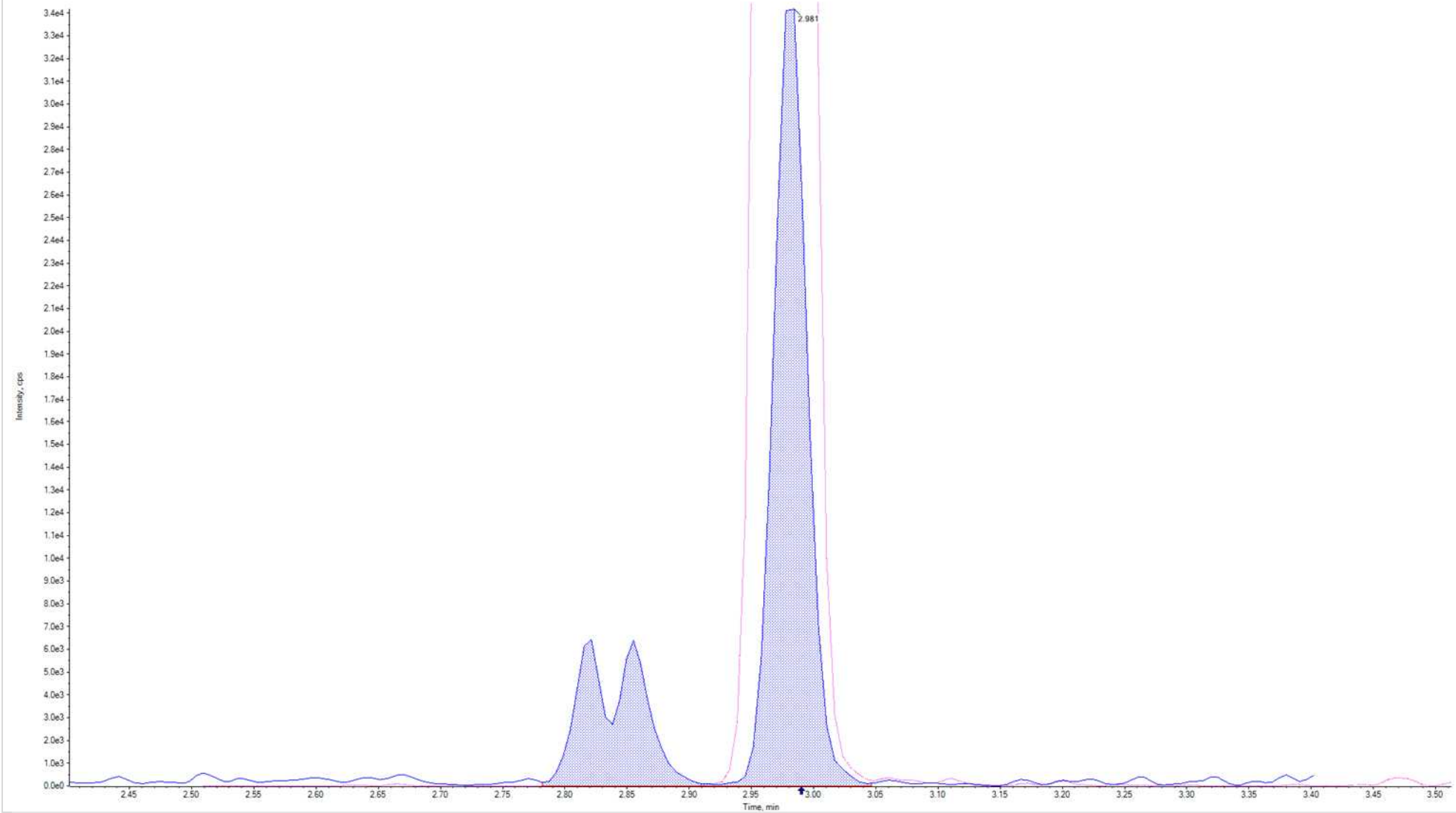
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PFHpA_2
Sample: WG2038443-2R S/N:400.2 Points Across peak:20



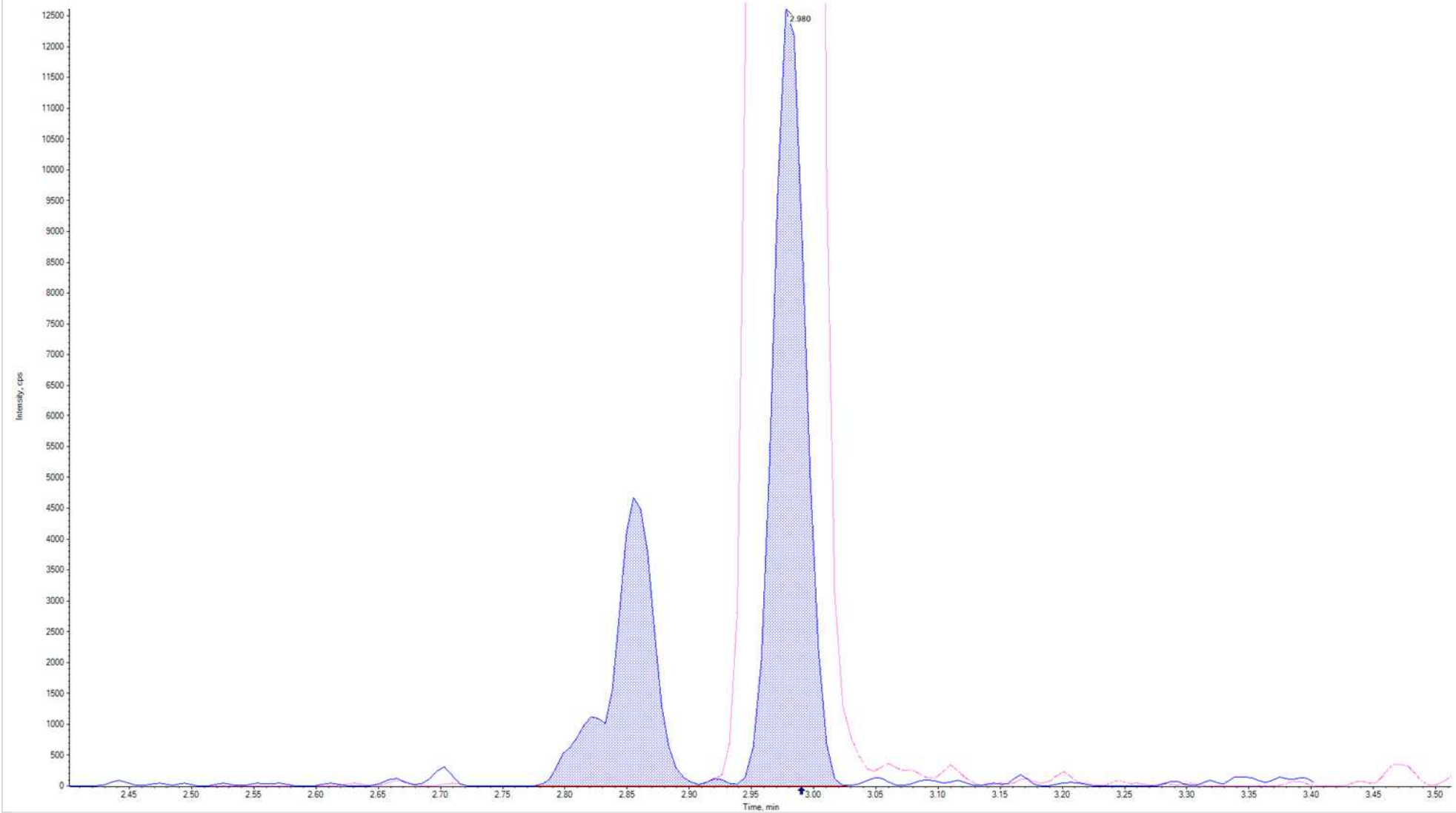
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PFOA
Sample: WG2038443-2R S/N:238.6 Points Across peak:45



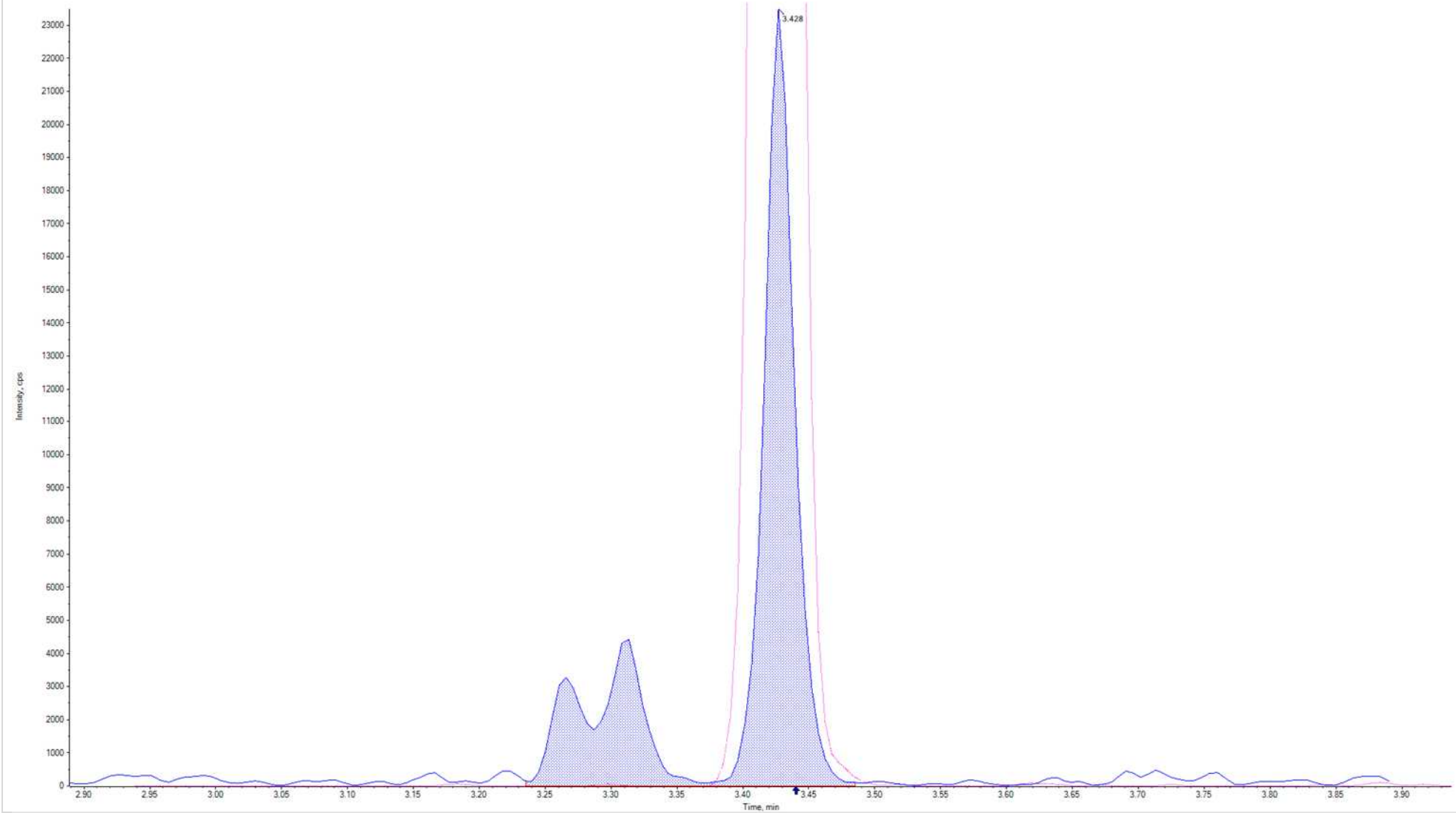
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PFOA_2
Sample: WG2038443-2R S/N:231.5 Points Across peak:44



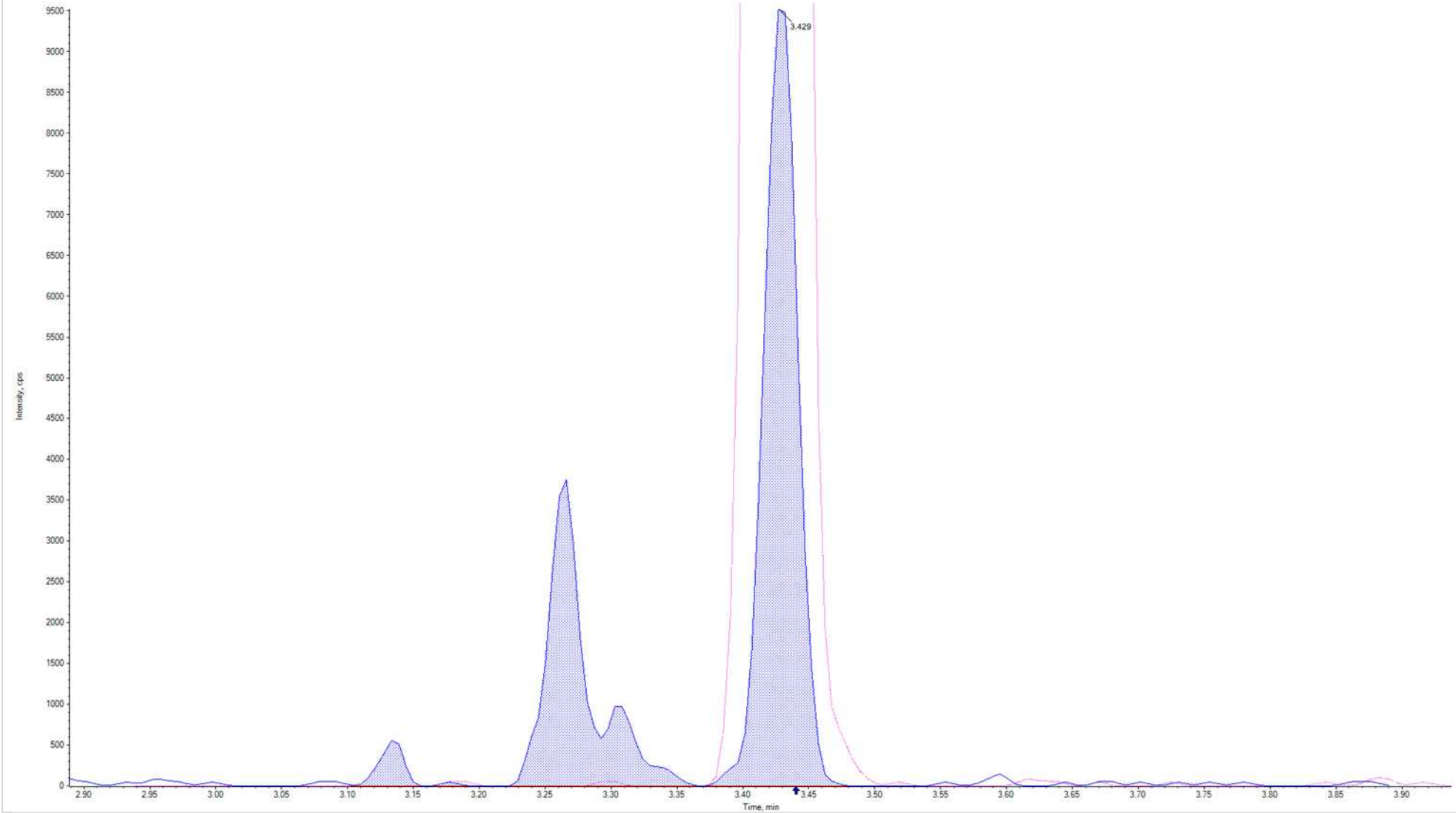
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PFNA
Sample: WG2038443-2R S/N:214.9 Points Across peak:50



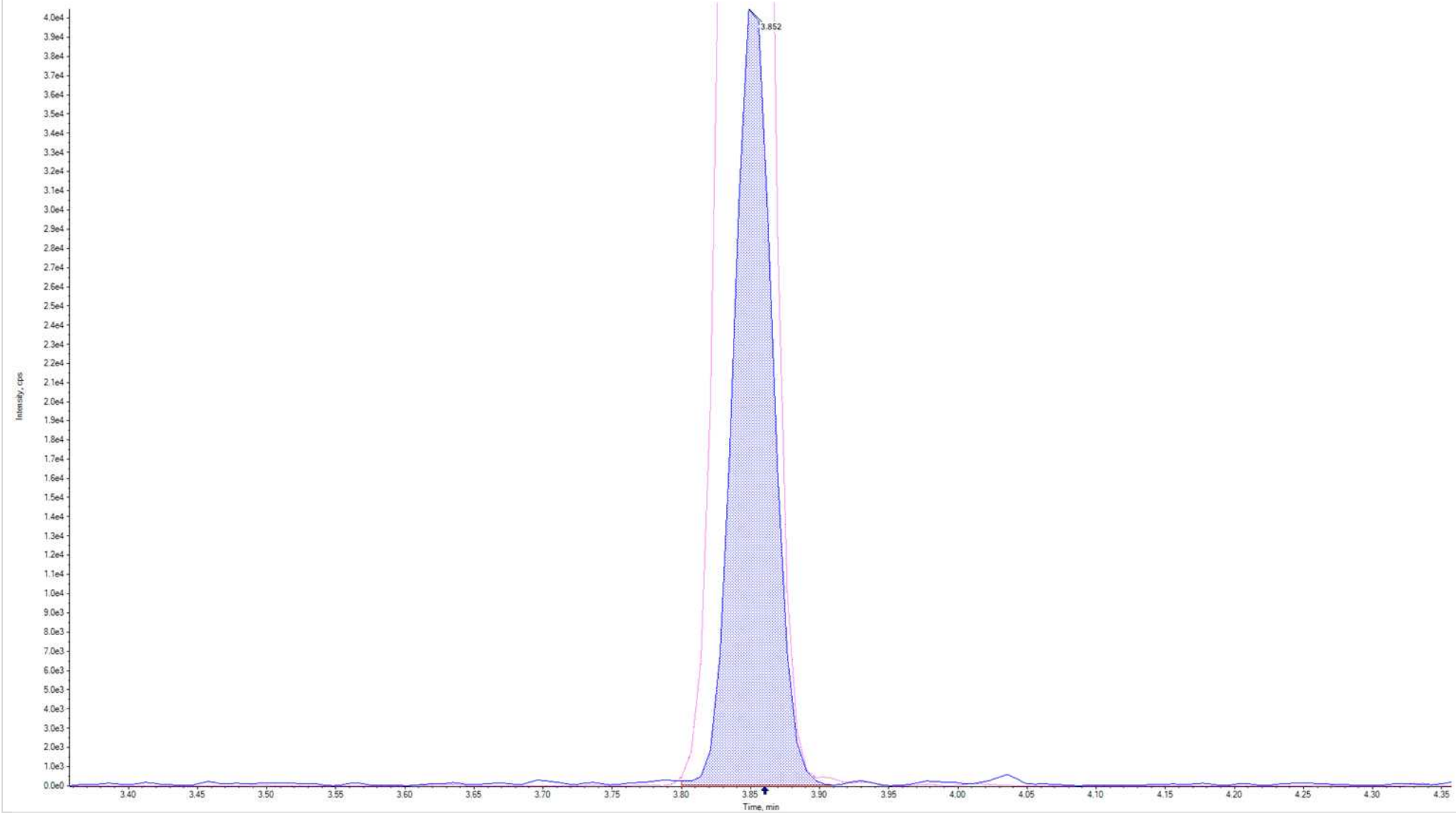
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PFNA_2
Sample: WG2038443-2R S/N:214.8 Points Across peak:74



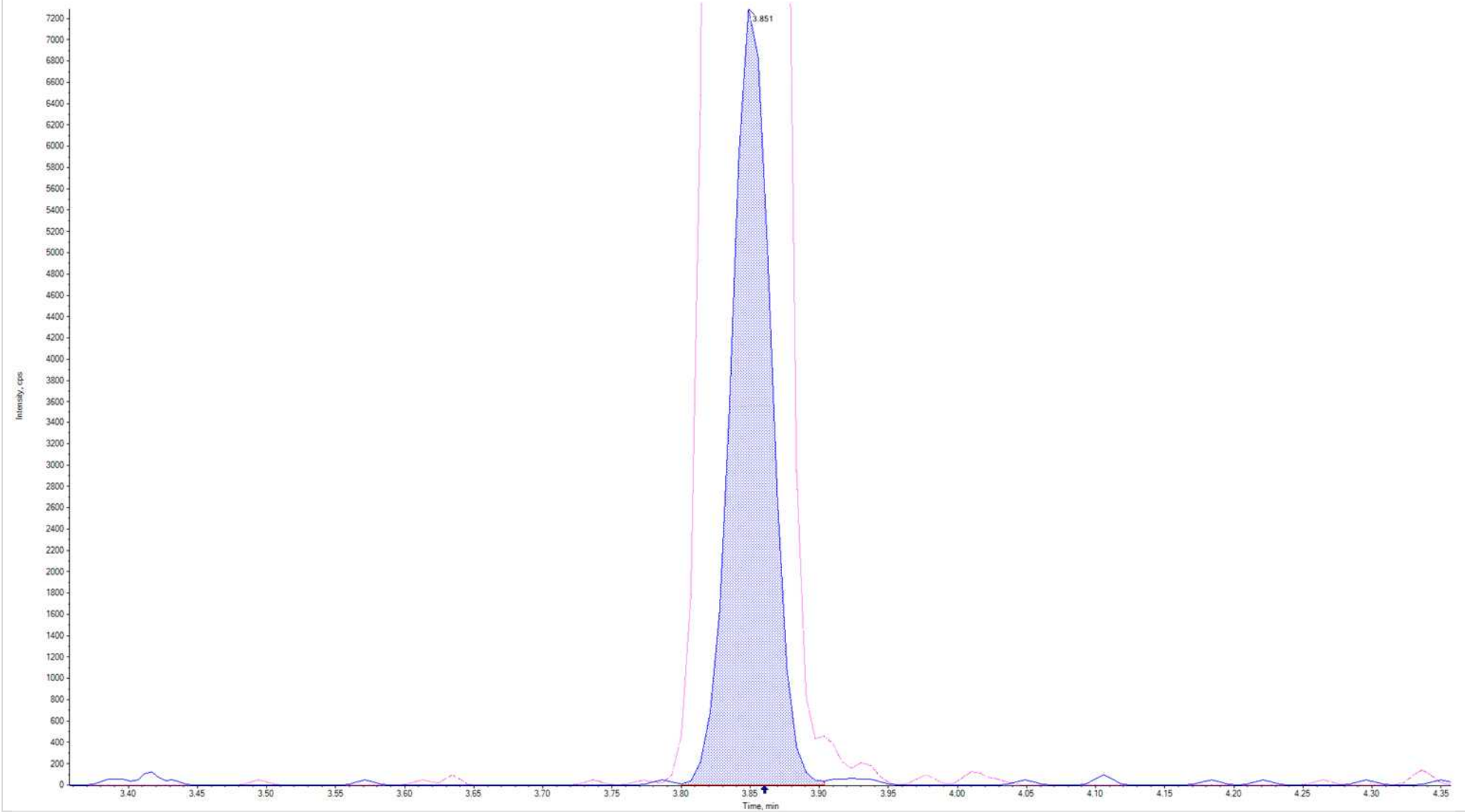
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PFDA
Sample: WG2038443-2R S/N:810.3 Points Across peak:17



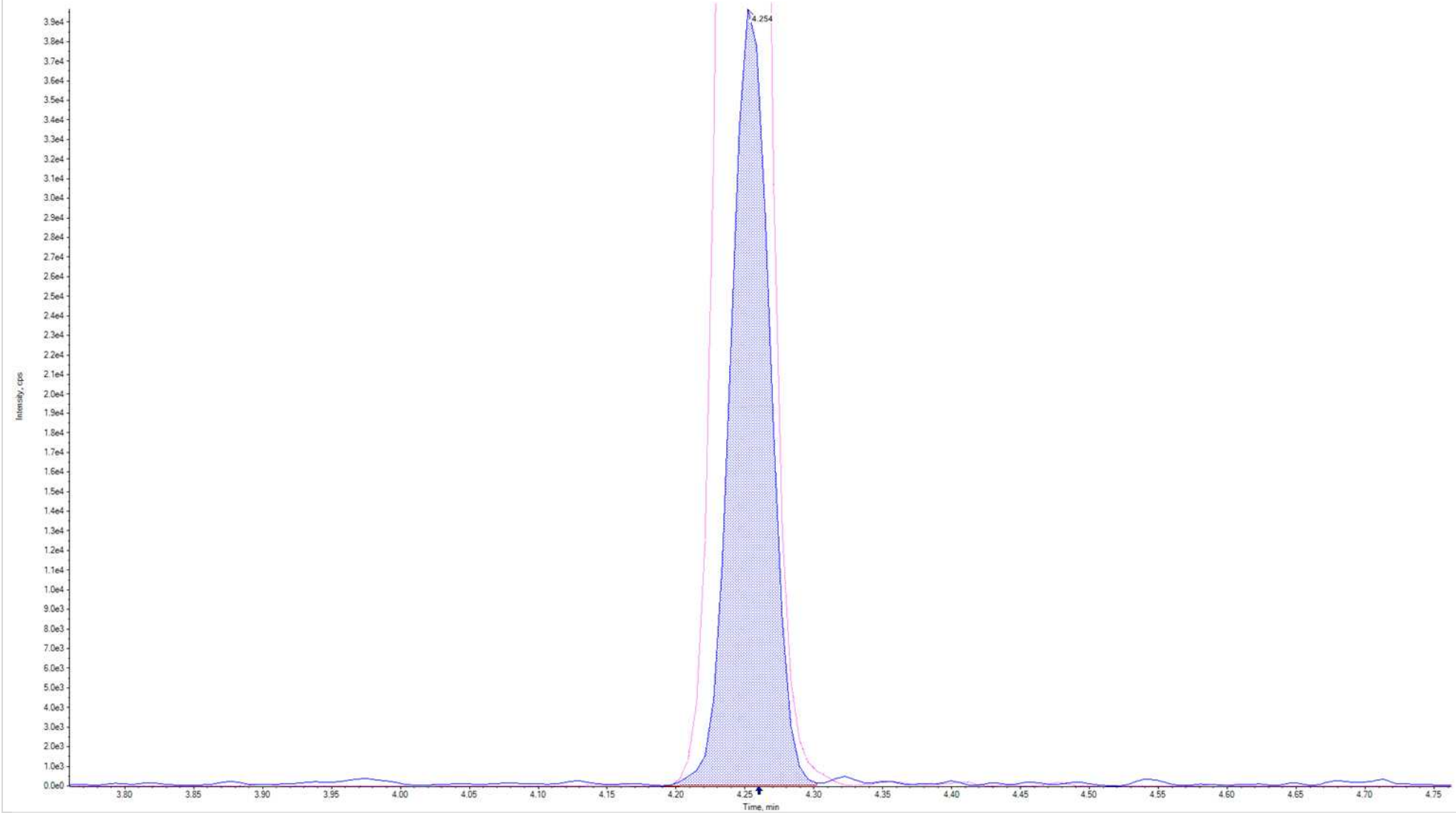
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PFDA_2
Sample: WG2038443-2R S/N:146.1 Points Across peak:16



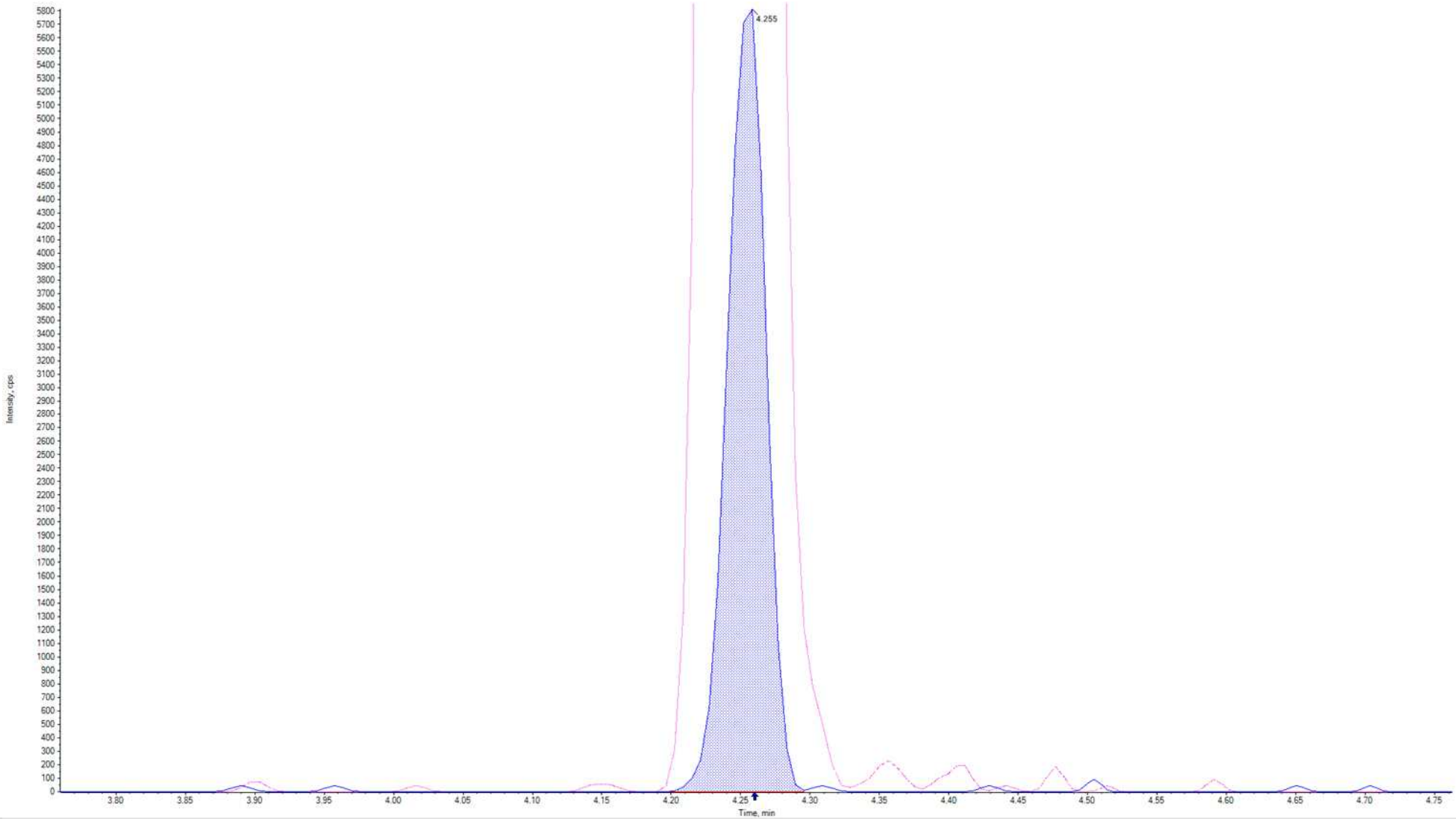
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PFUnA
Sample: WG2038443-2R S/N:893.9 Points Across peak:19



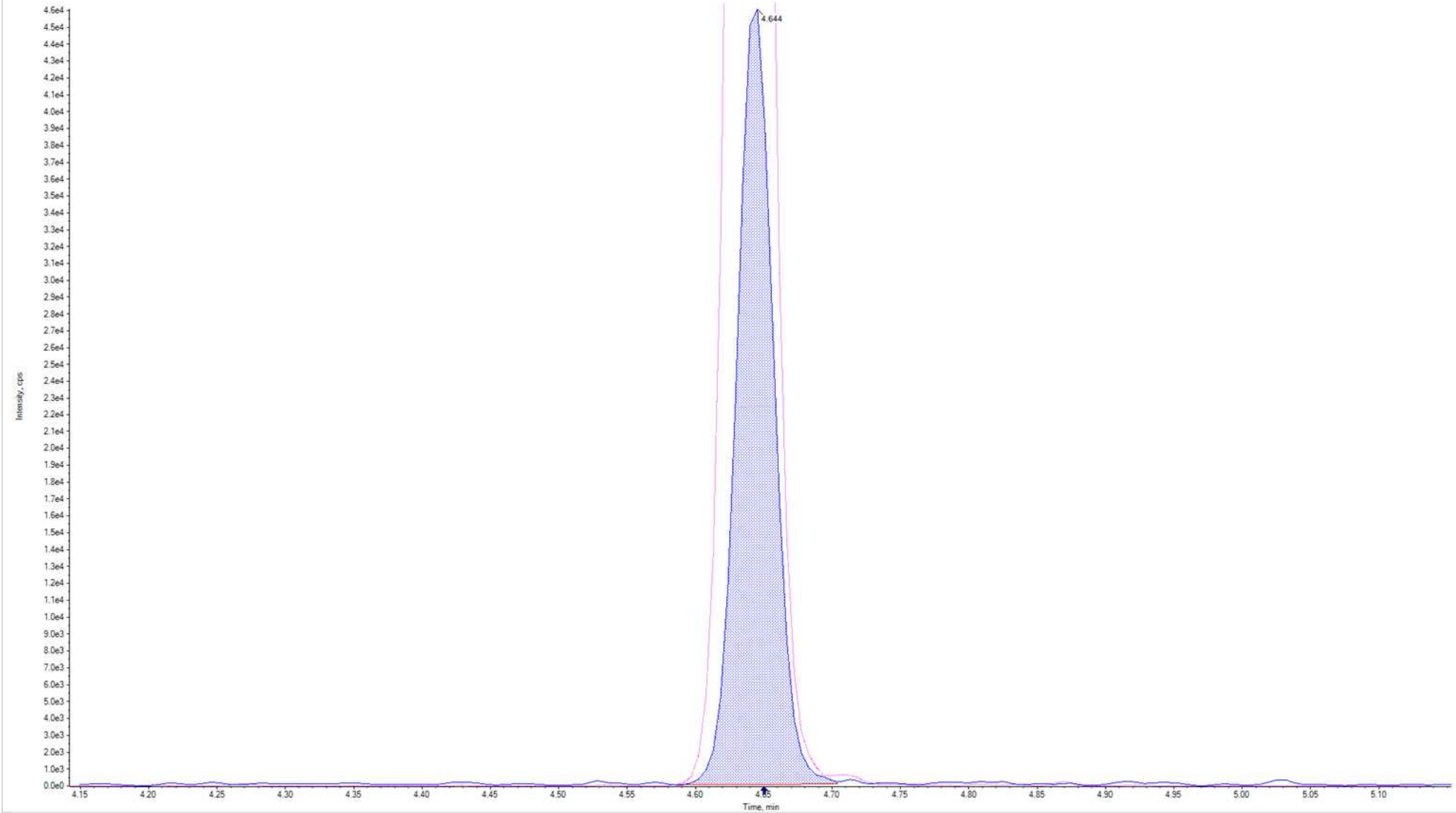
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PFUnA_2
Sample: WG2038443-2R S/N:131.1 Points Across peak:22



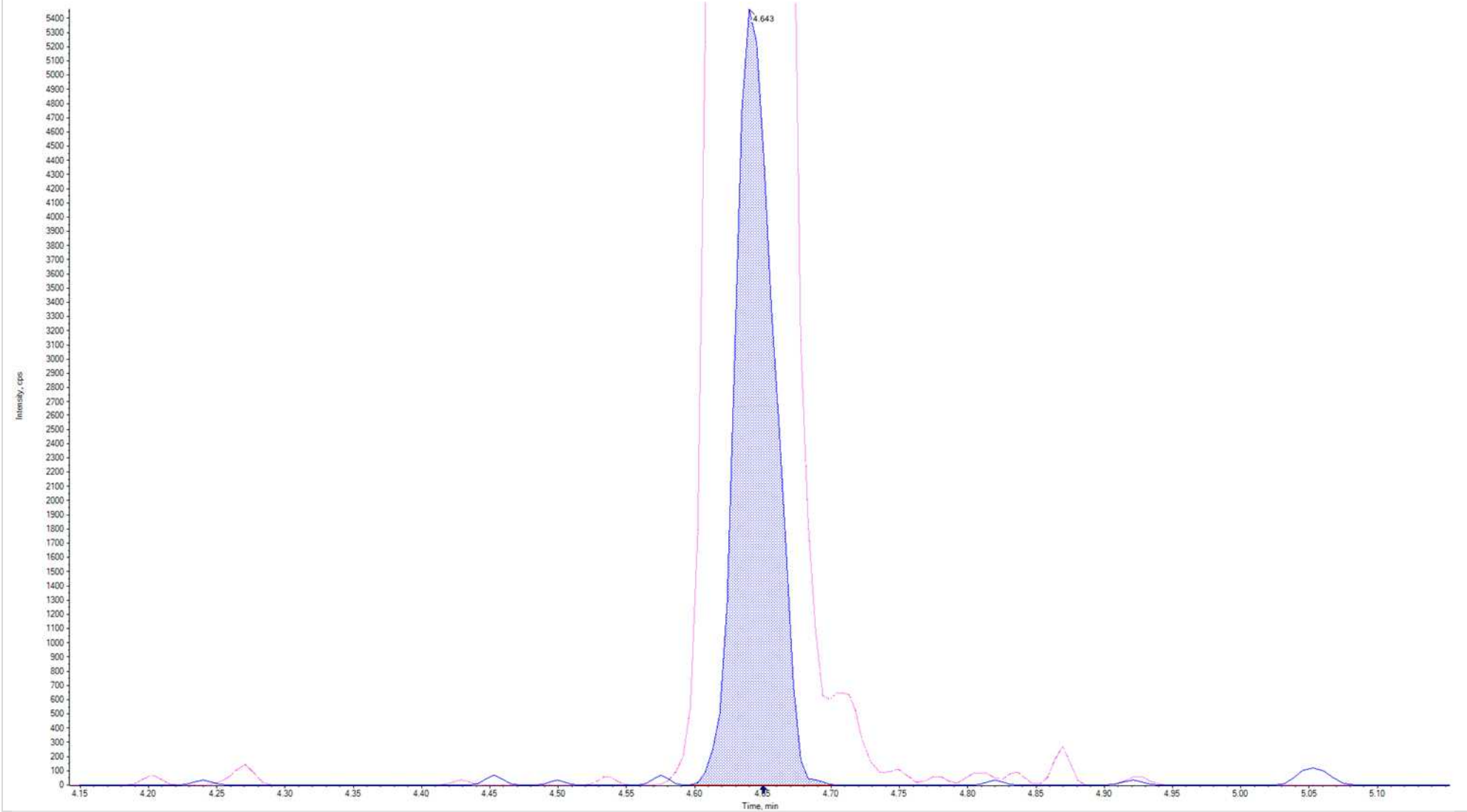
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PFDoA
Sample: WG2038443-2R S/N:1268.1 Points Across peak:23



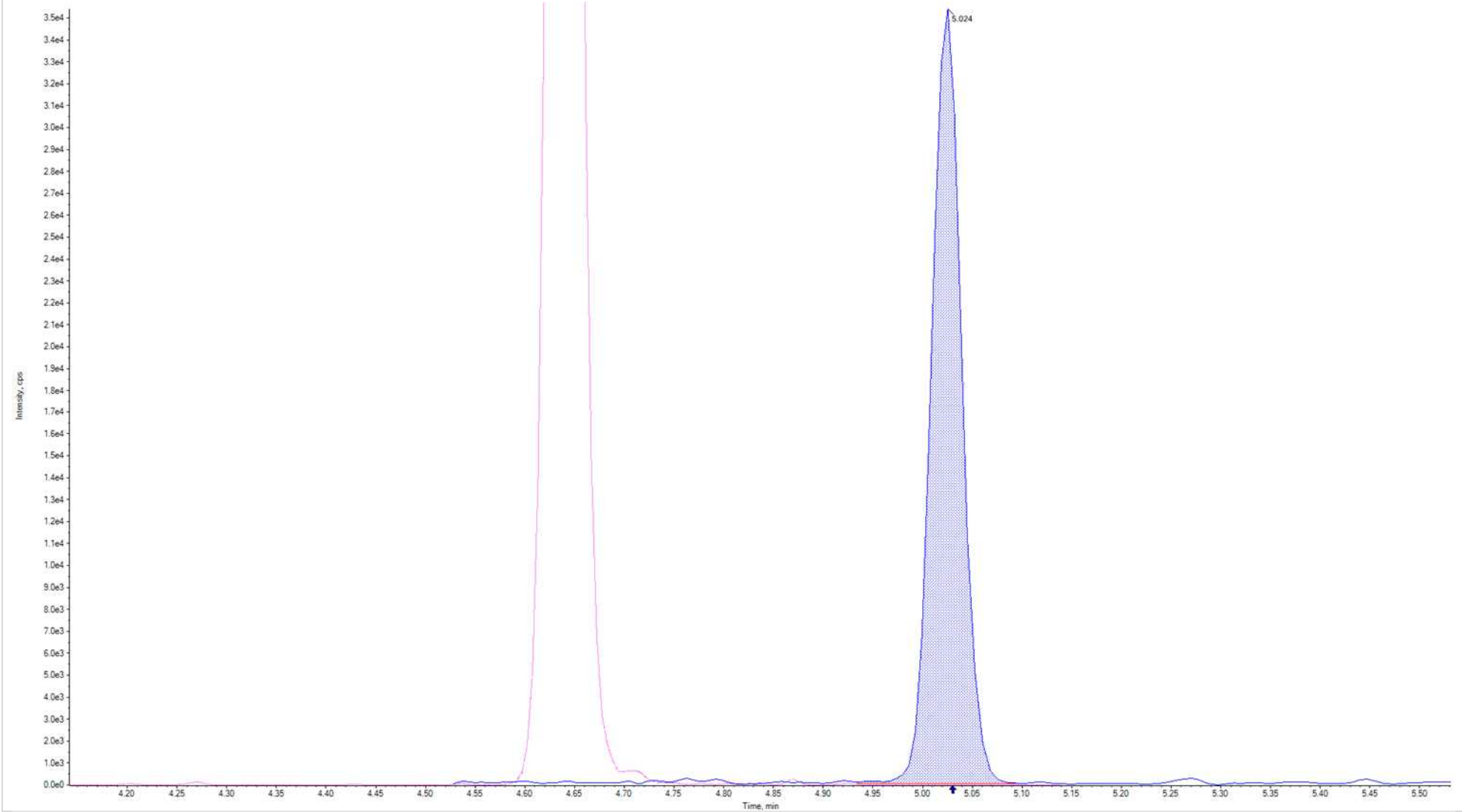
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PFDoA_2
Sample: WG2038443-2R S/N:150.7 Points Across peak:27



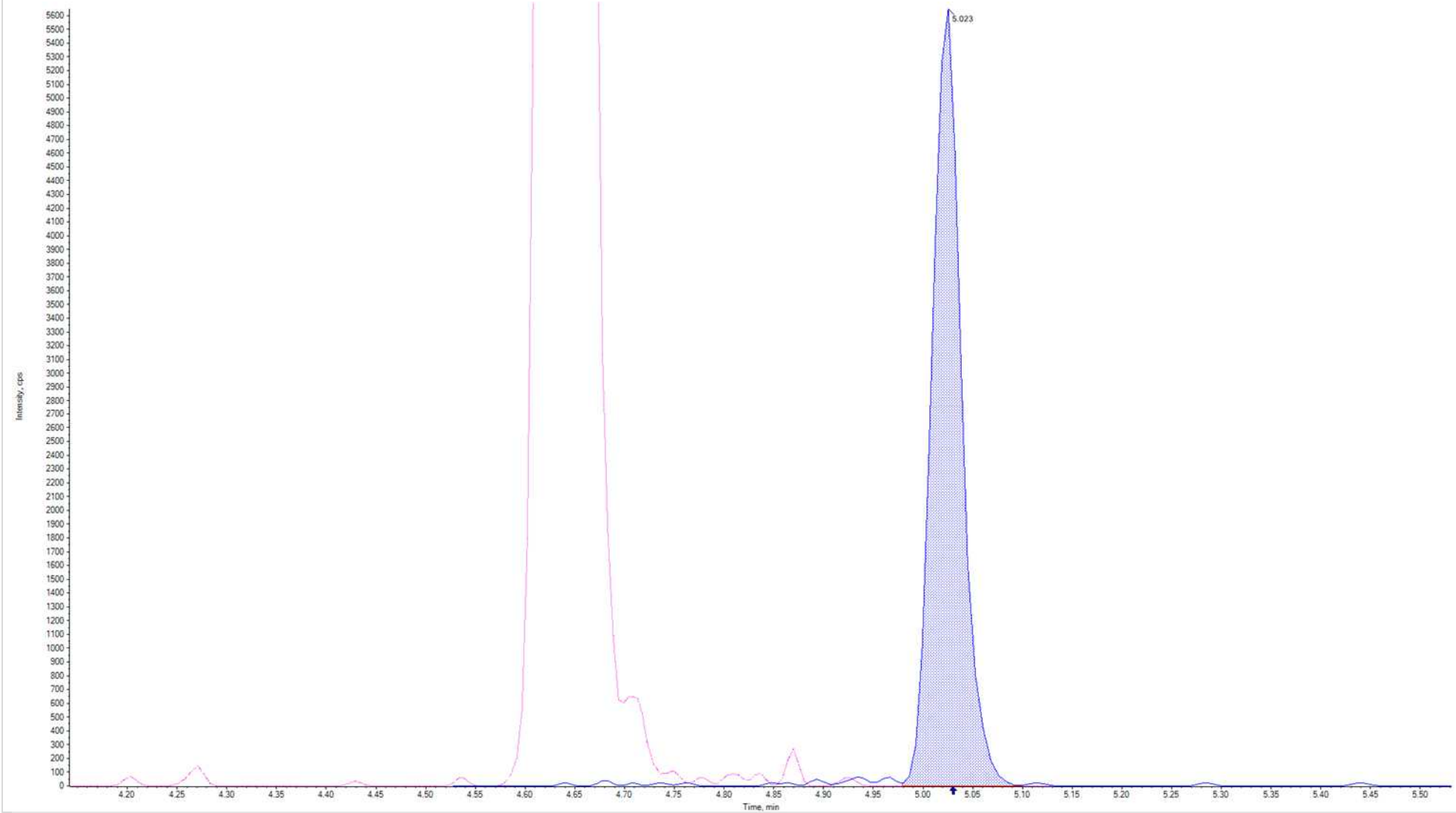
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFTrDA
Sample: WG2038443-2R S/N:1417.1 Points Across peak:25



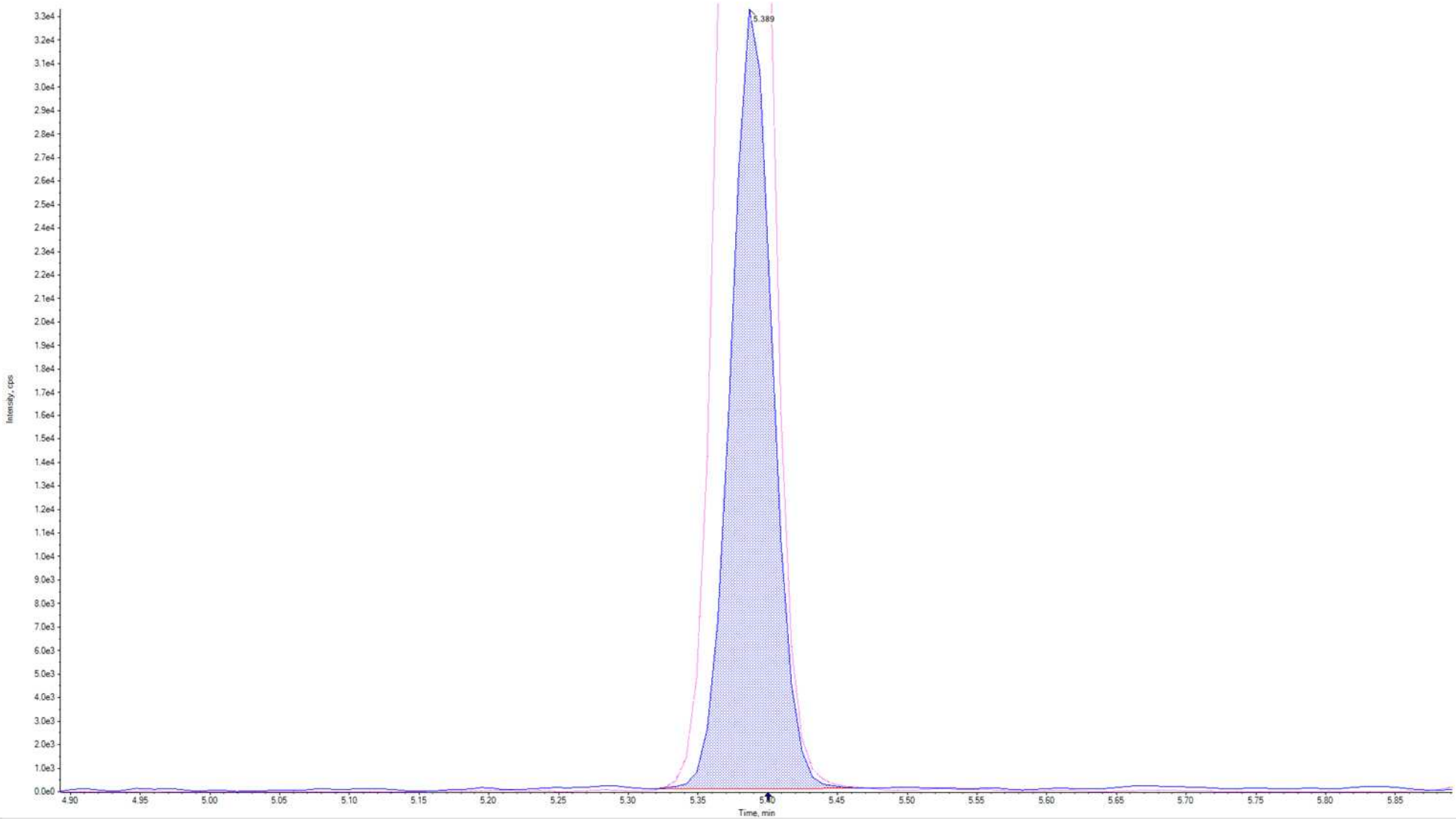
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFTrDA_2
Sample: WG2038443-2R S/N:226.5 Points Across peak:18



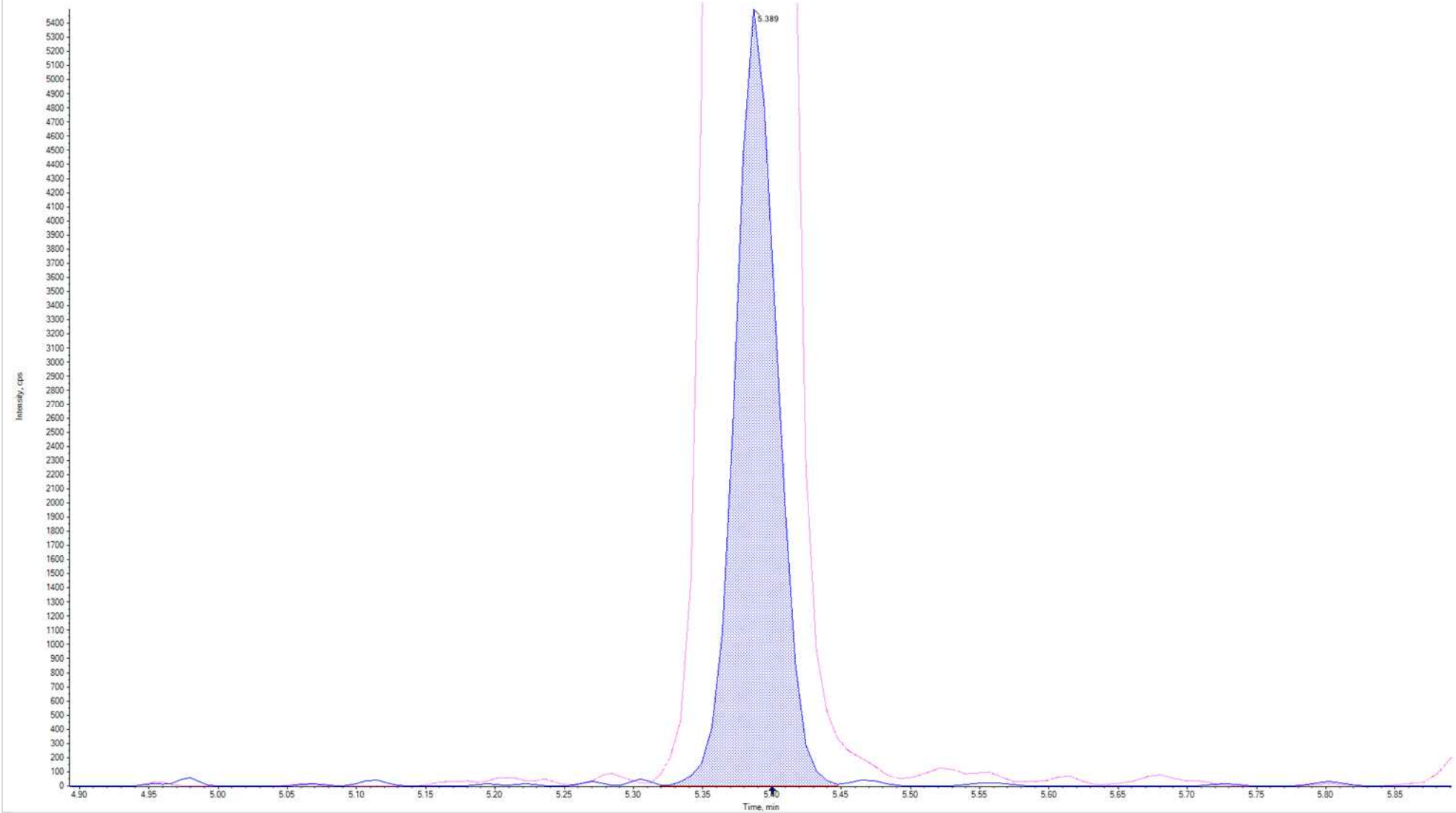
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
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PFTeDA
Sample: WG2038443-2R S/N:1431.3 Points Across peak:21



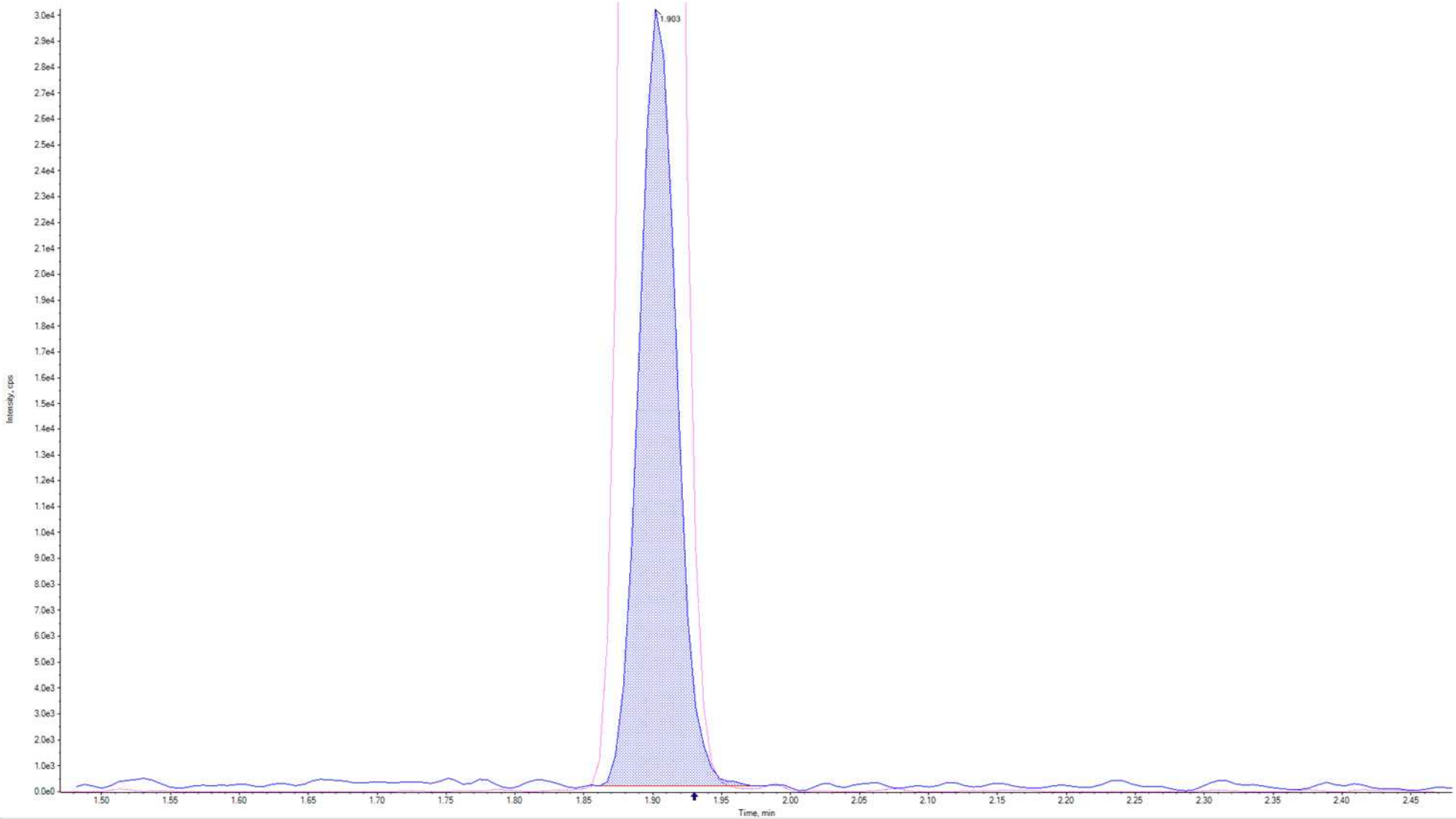
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
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PFTeDA_2
Sample: WG2038443-2R S/N:344.6 Points Across peak:18



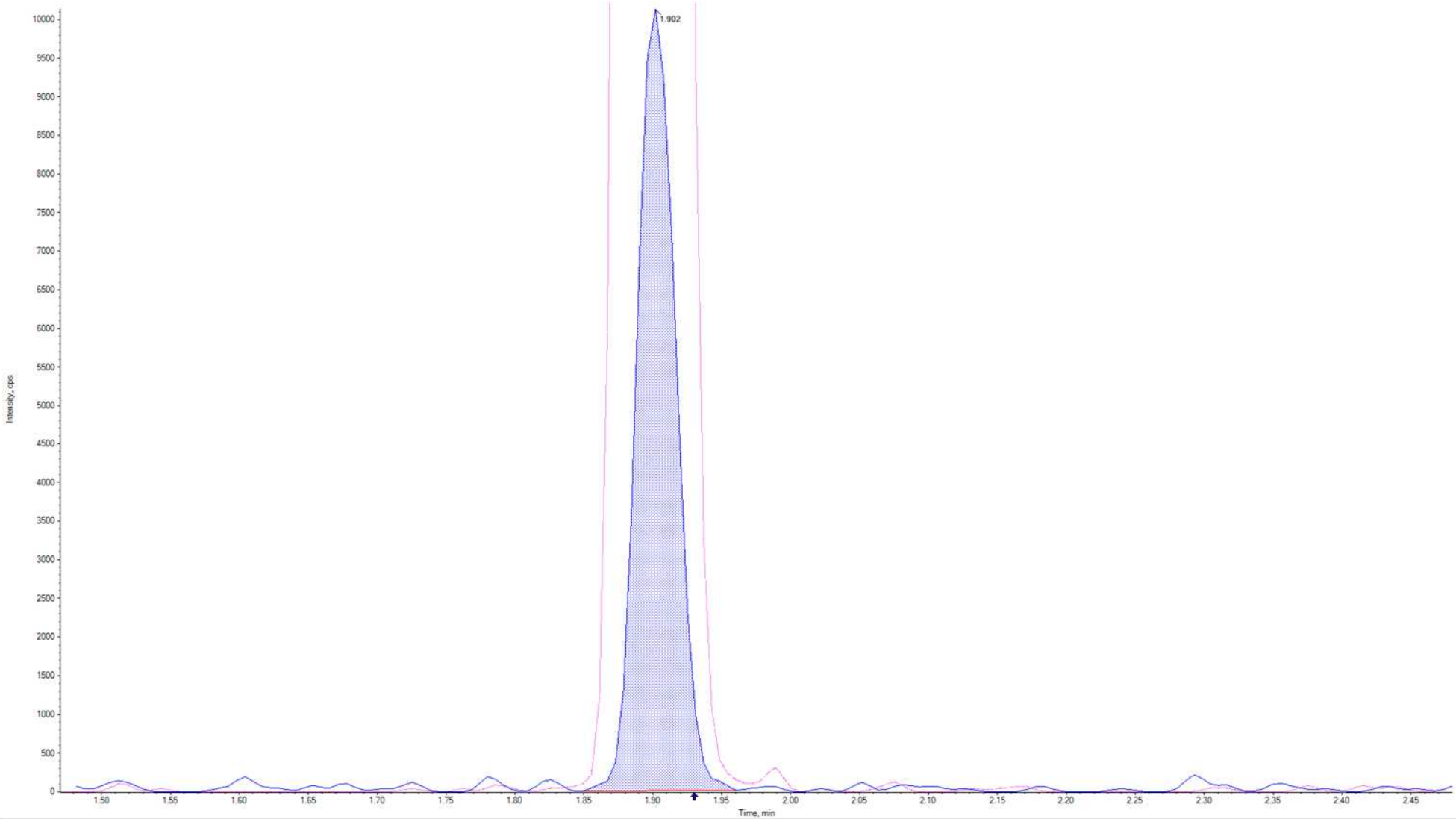
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Alpha Analytical LLC
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PFBS
Sample: WG2038443-2R S/N:752.5 Points Across peak:20



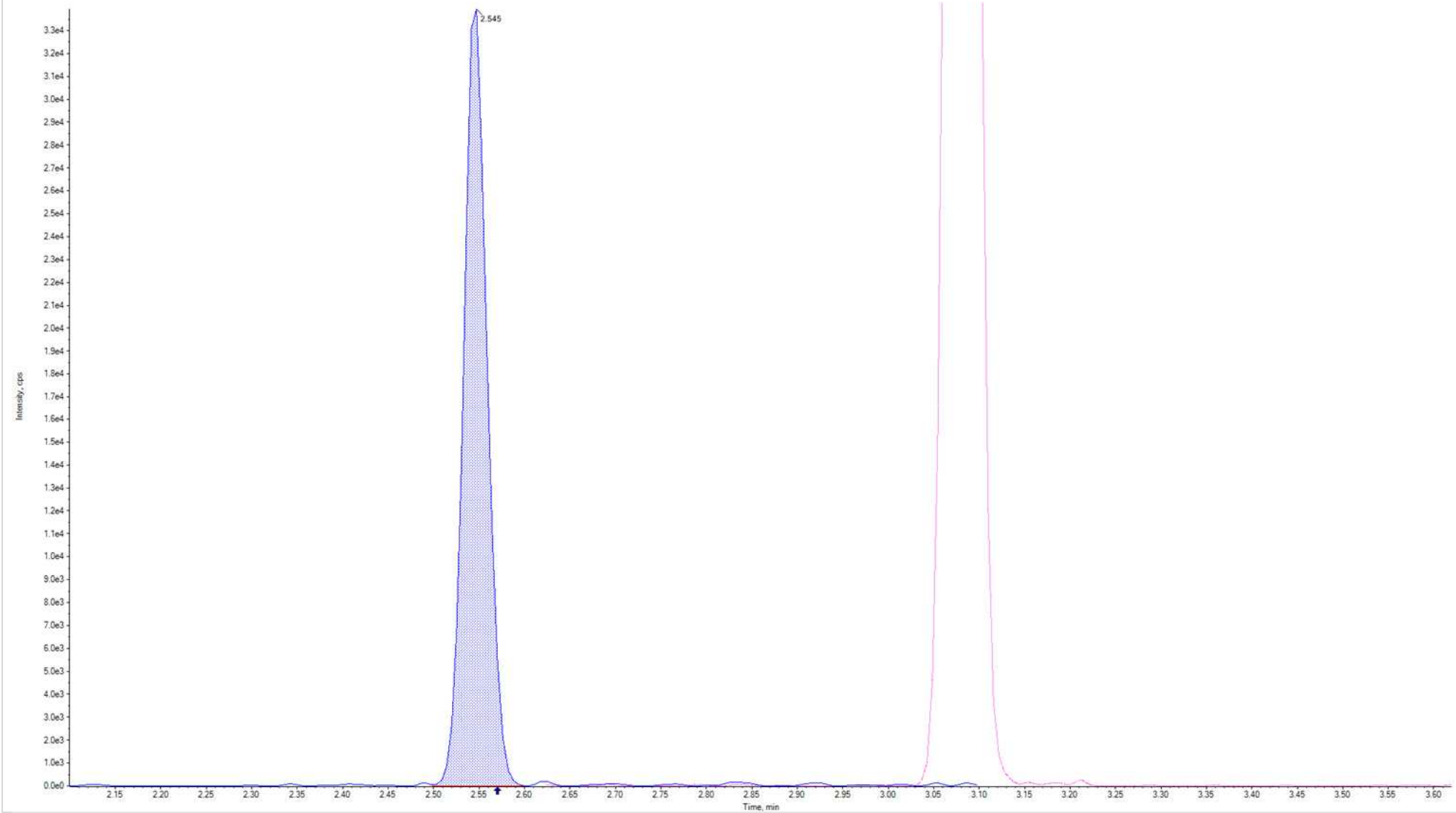
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

PFBS_2
Sample: WG2038443-2R S/N:253.7 Points Across peak:21



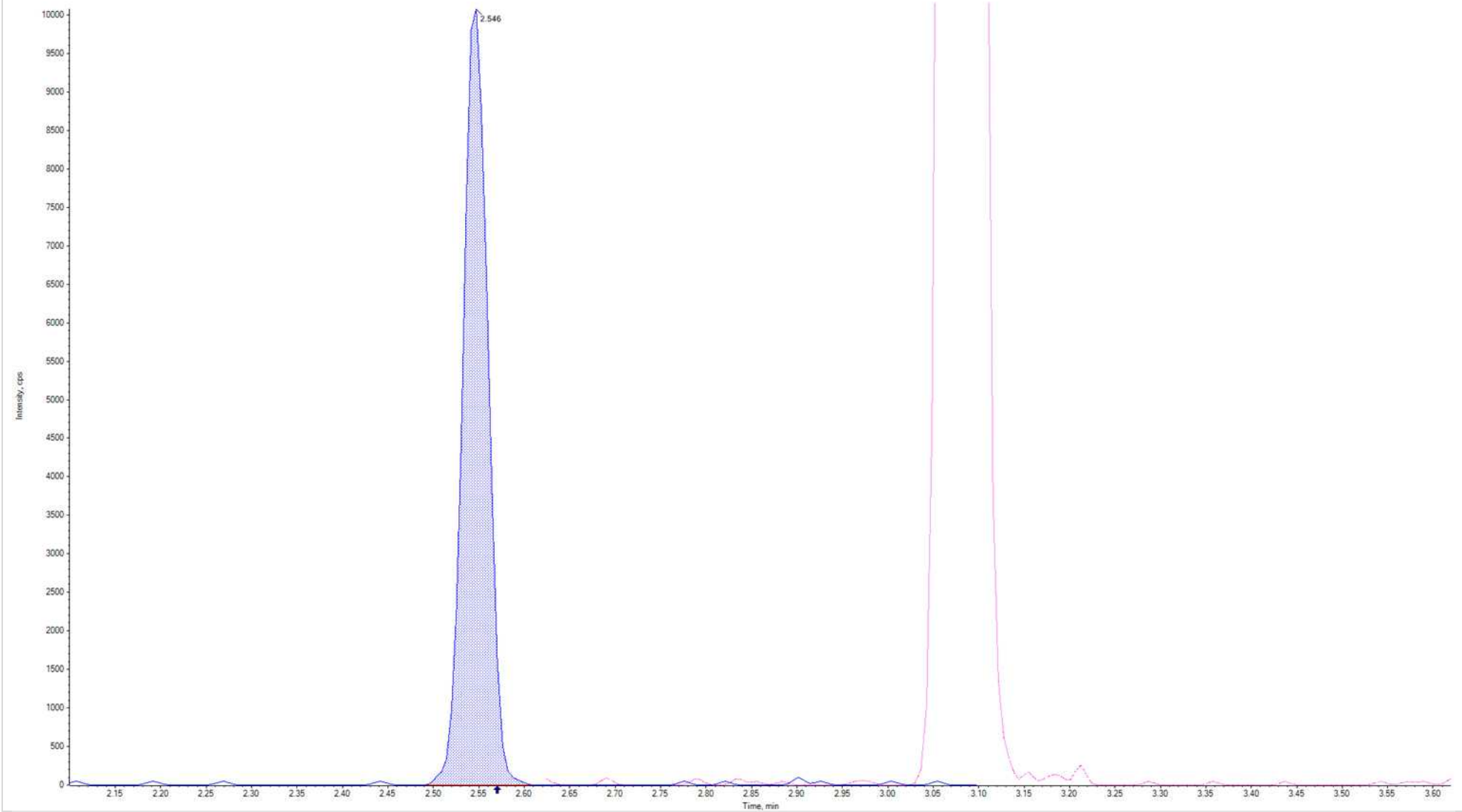
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Alpha Analytical LLC
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PFPeS
Sample: WG2038443-2R S/N:680.4 Points Across peak:19



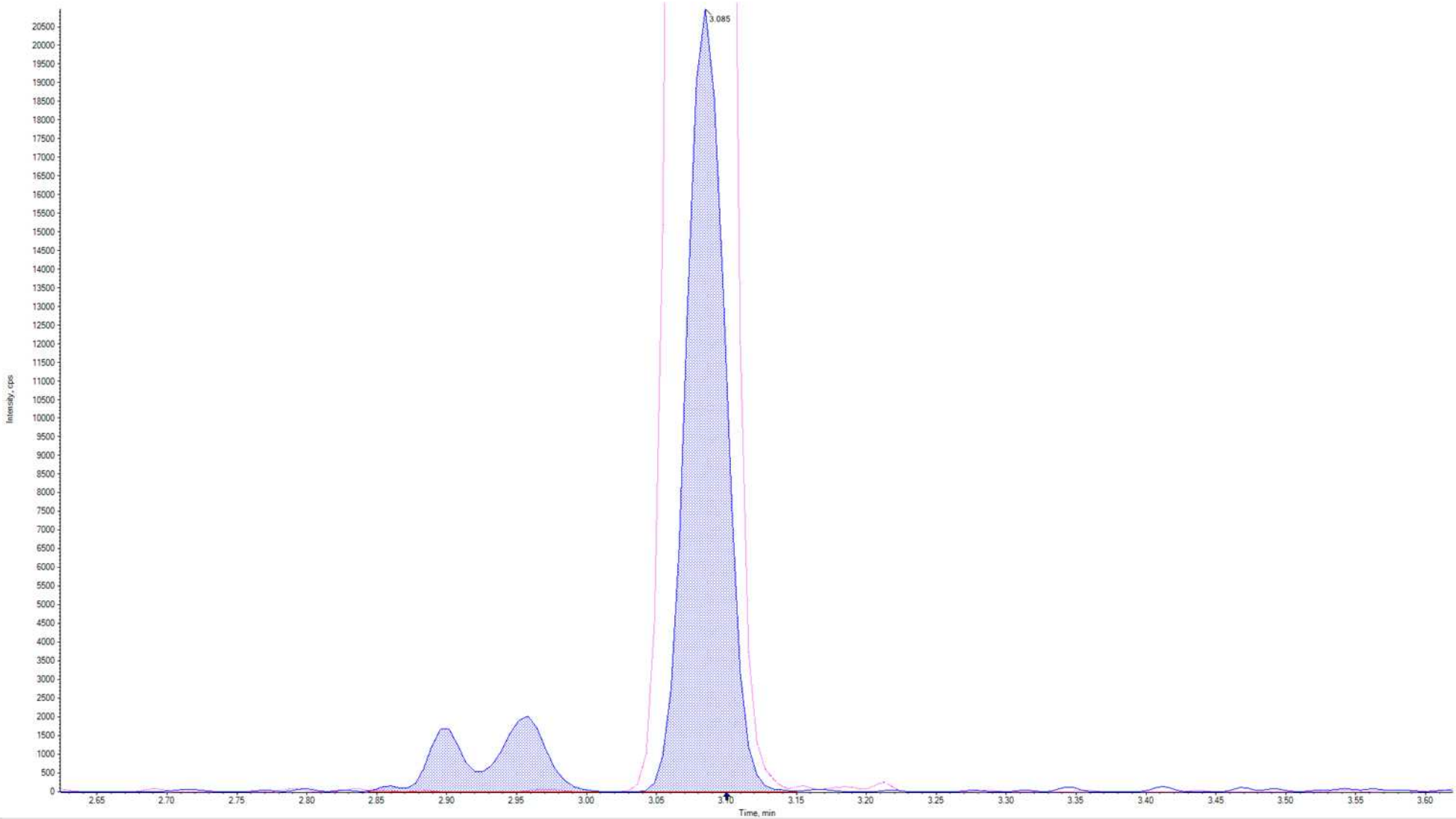
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

PFPeS_2
Sample: WG2038443-2R S/N:202.0 Points Across peak:29



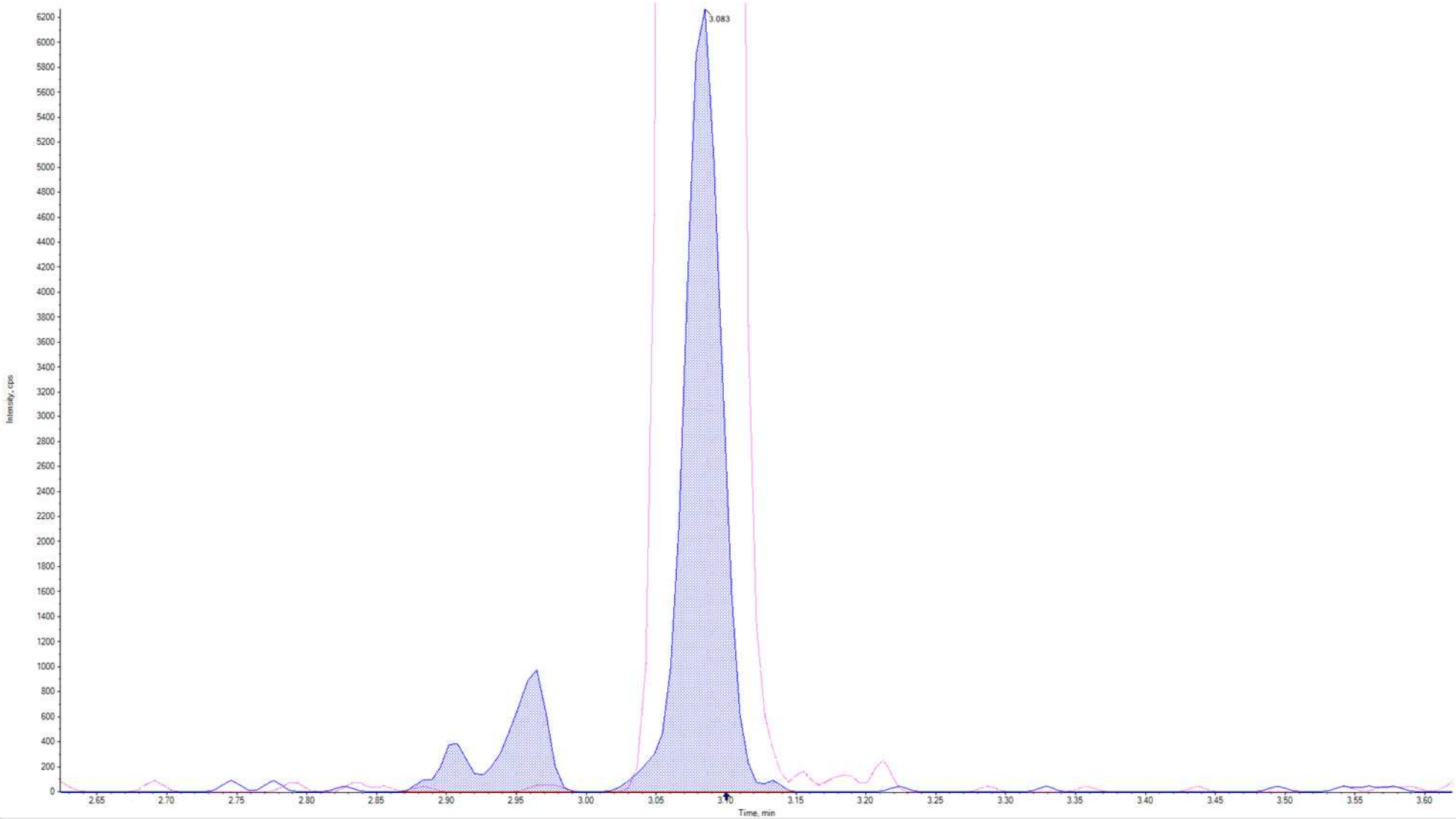
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFHxS
Sample: WG2038443-2R S/N:453.3 Points Across peak:53



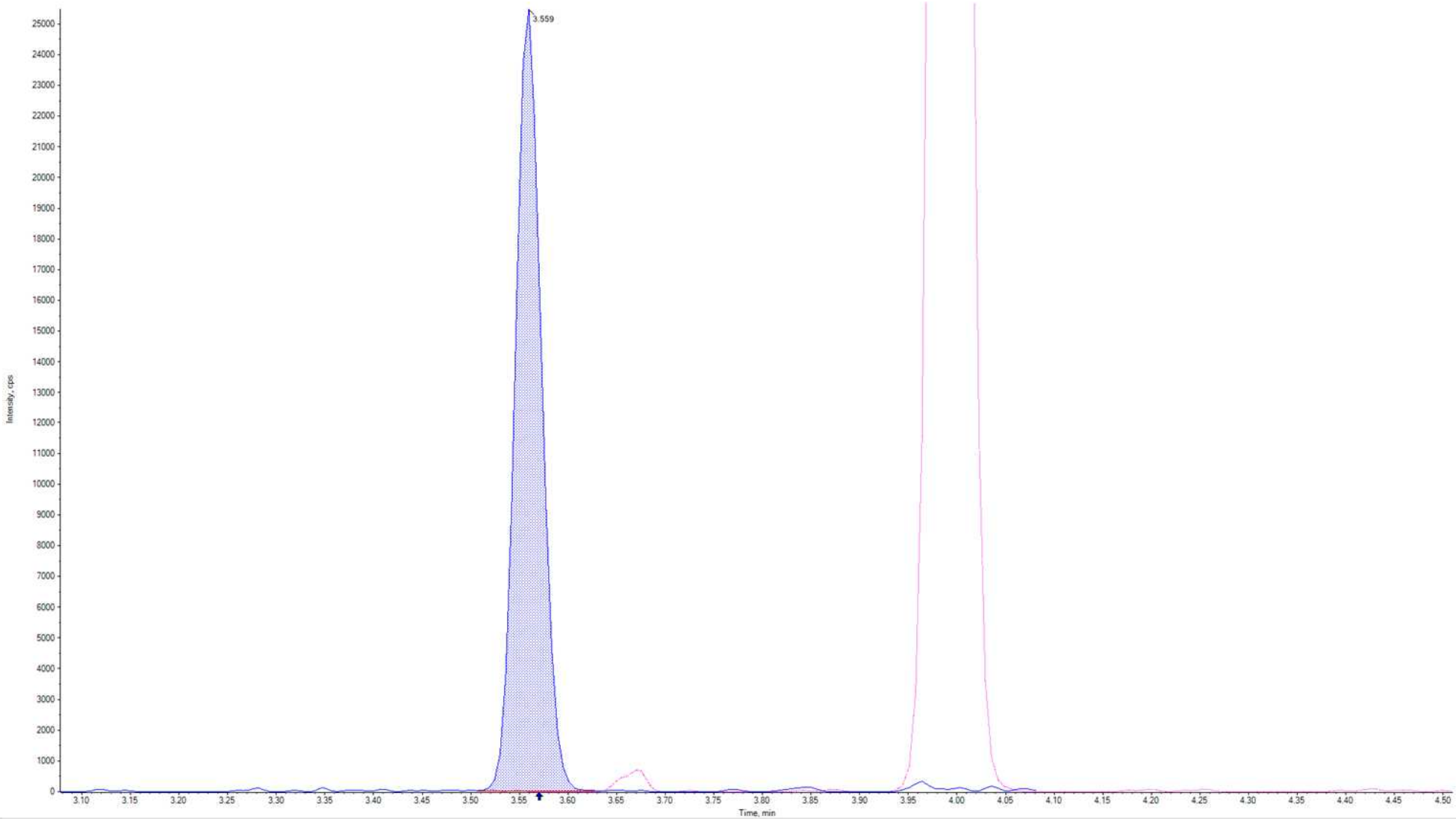
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFHxS_2
Sample: WG2038443-2R S/N:141.3 Points Across peak:48



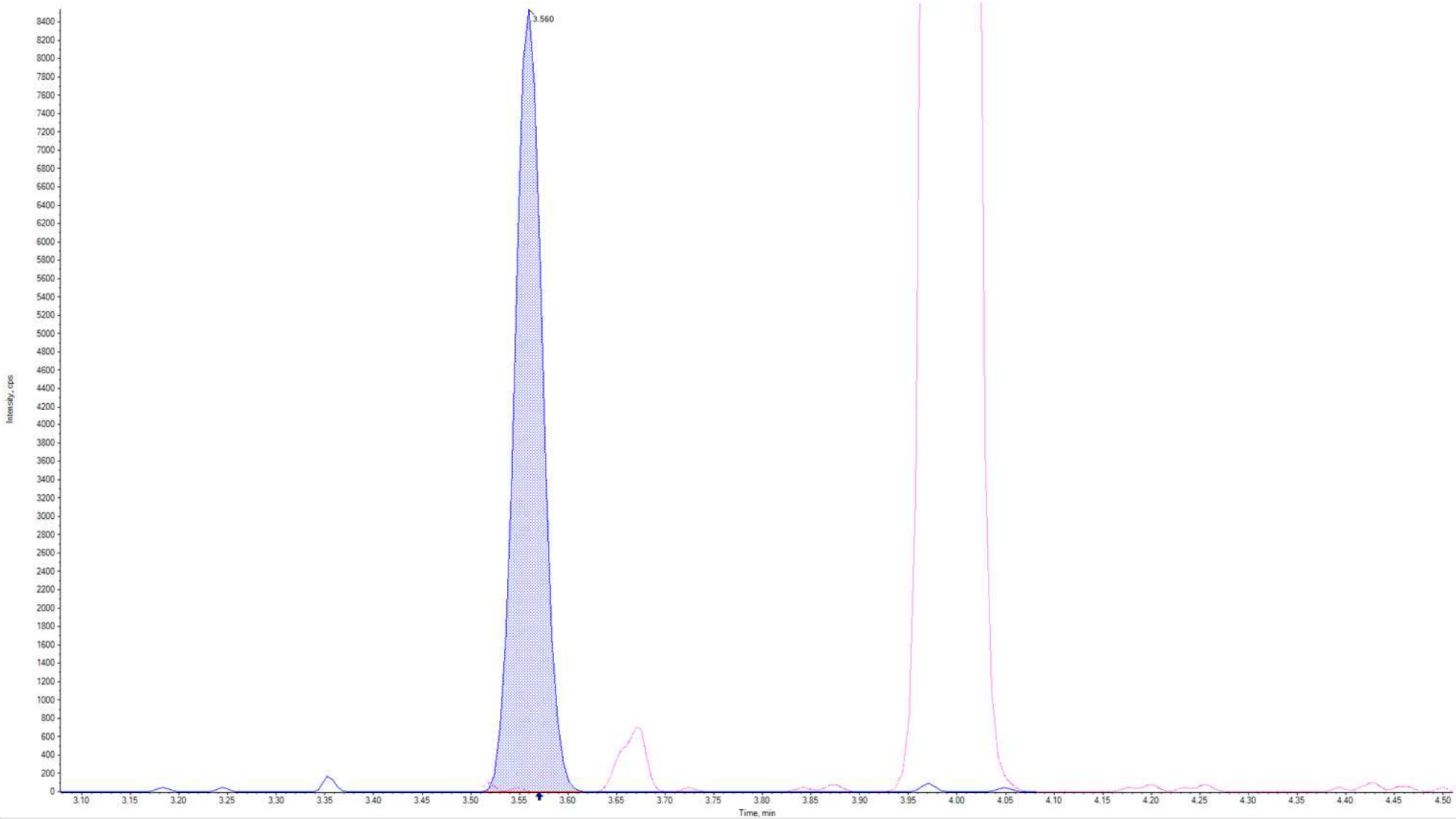
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFHpS
Sample: WG2038443-2R S/N:510.7 Points Across peak:23



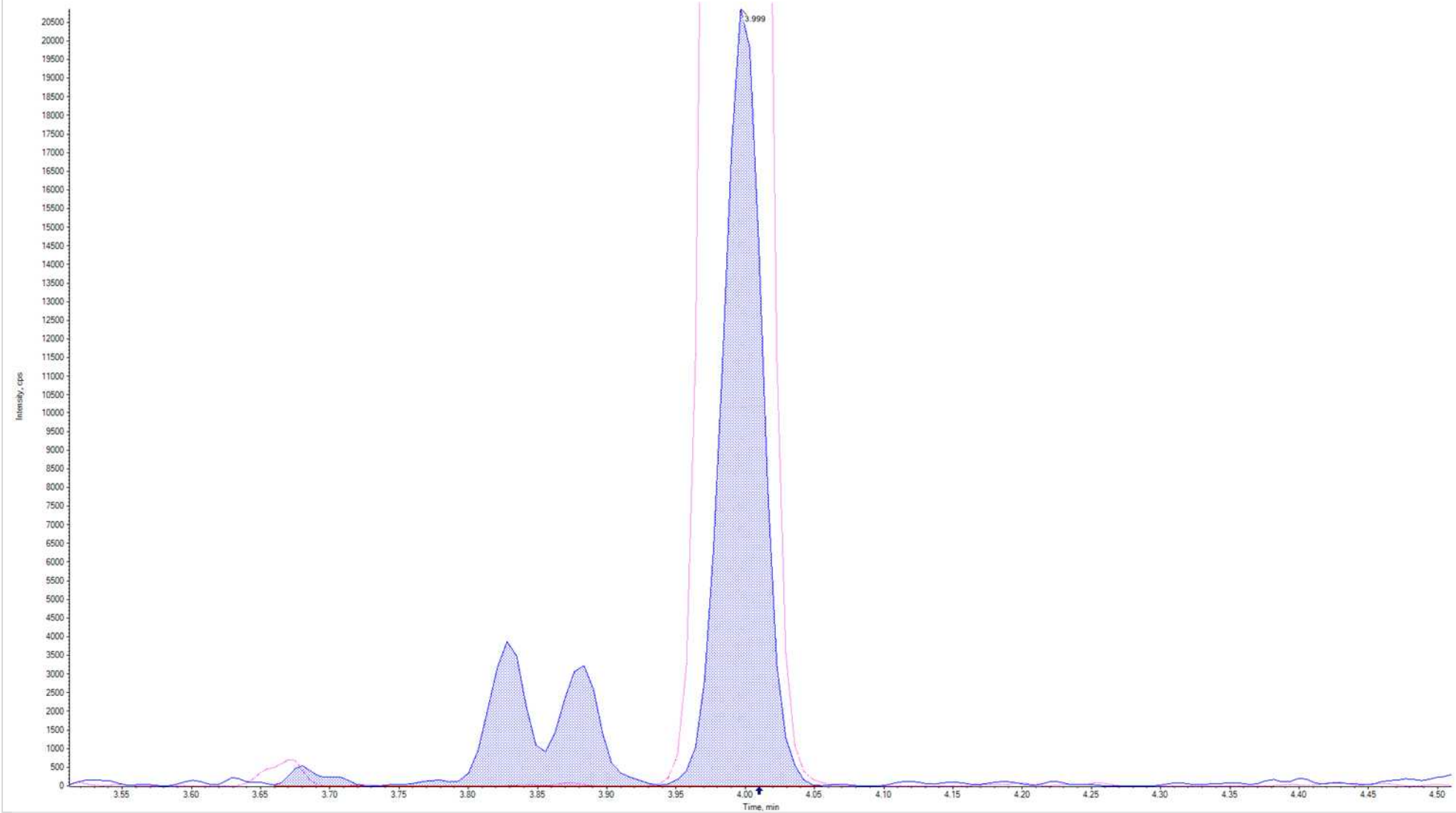
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Alpha Analytical LLC
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PFHpS_2
Sample: WG2038443-2R S/N:171.2 Points Across peak:29



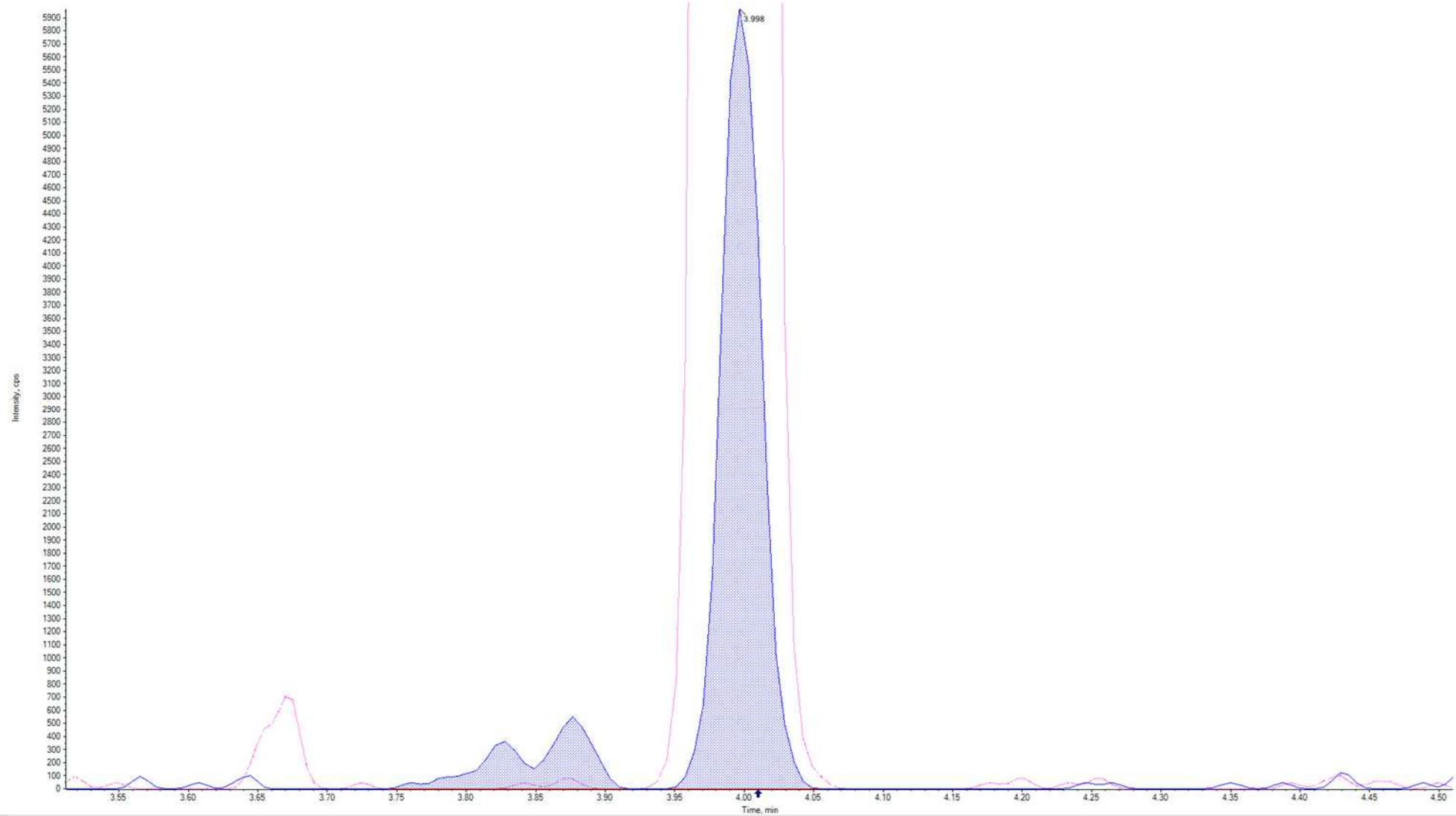
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PFOS
Sample: WG2038443-2R S/N:226.0 Points Across peak:64



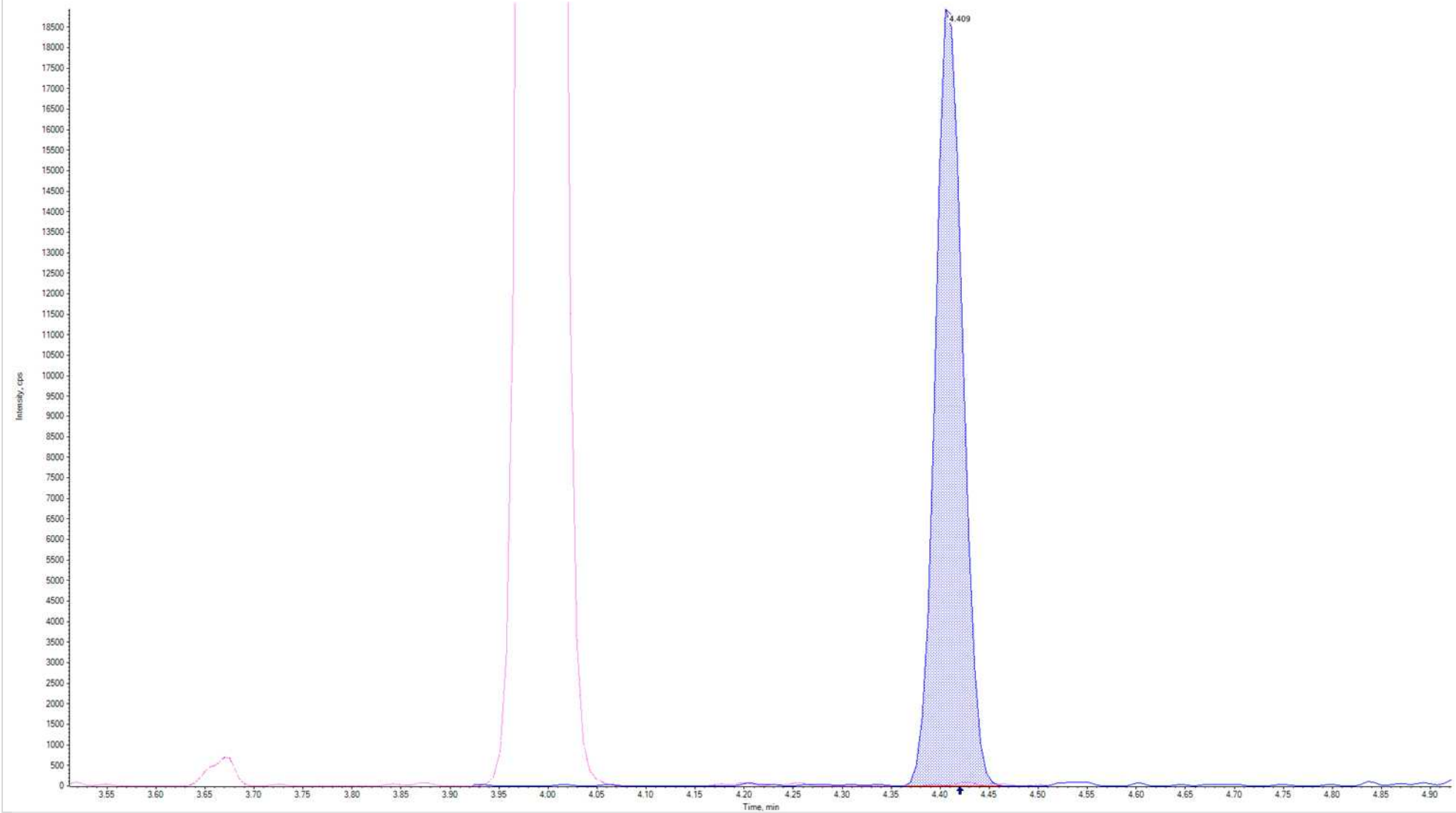
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PFOS_2
Sample: WG2038443-2R S/N:119.6 Points Across peak:49



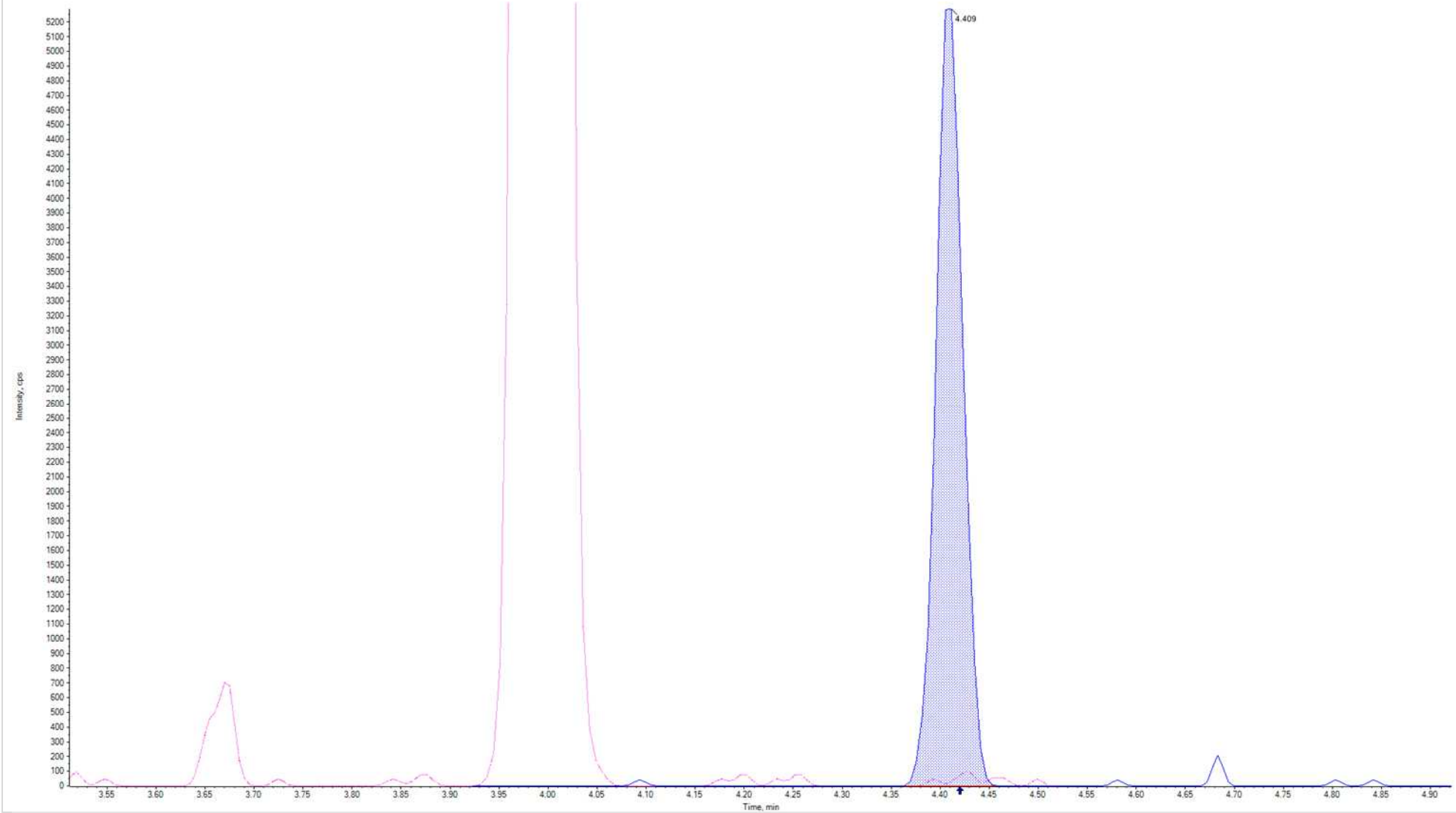
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Generated: 3/11/2025 12:26:59 PM

PFNS
Sample: WG2038443-2R S/N:474.8 Points Across peak:21



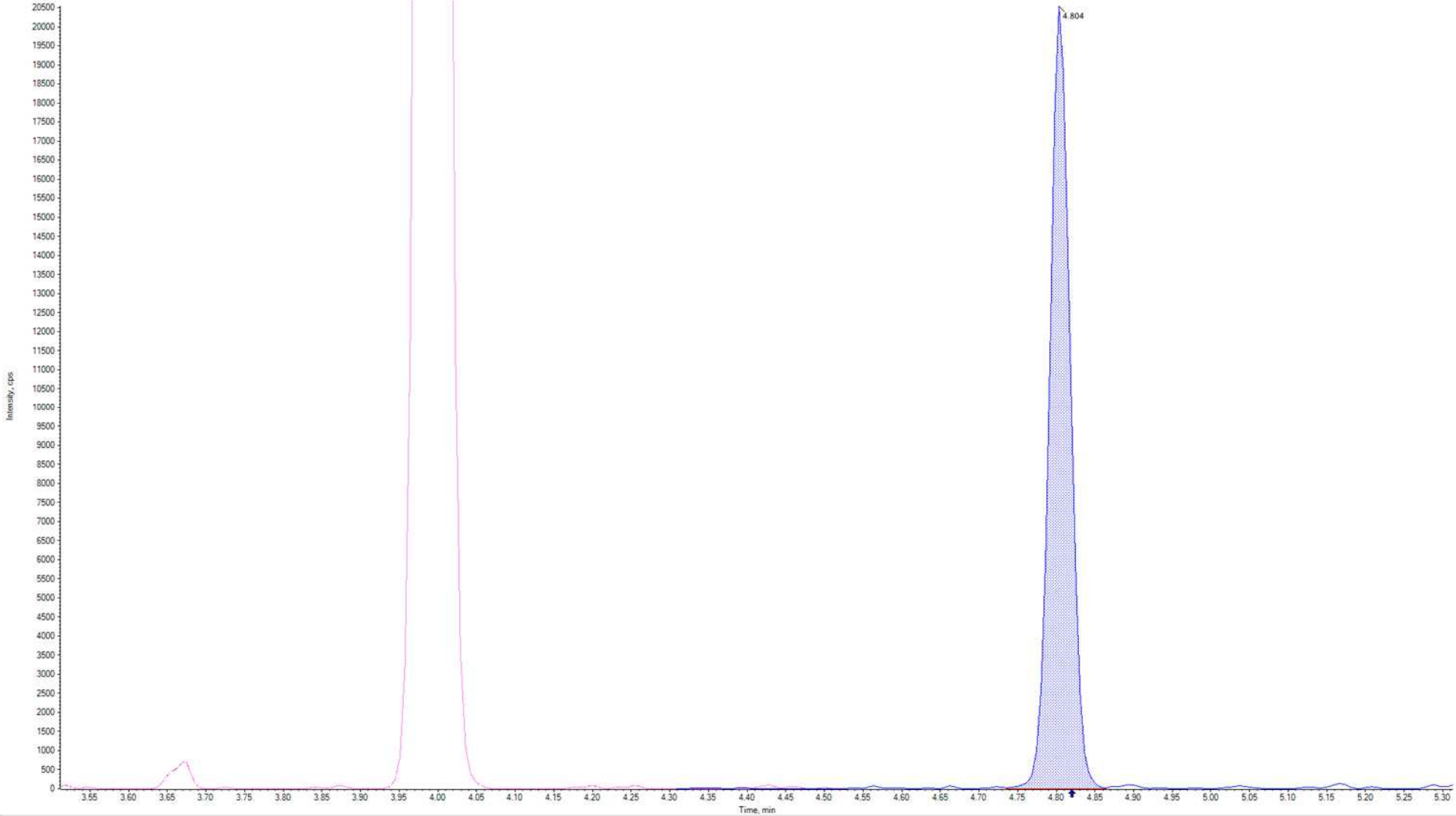
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PFNS_2
Sample: WG2038443-2R S/N:132.5 Points Across peak:27



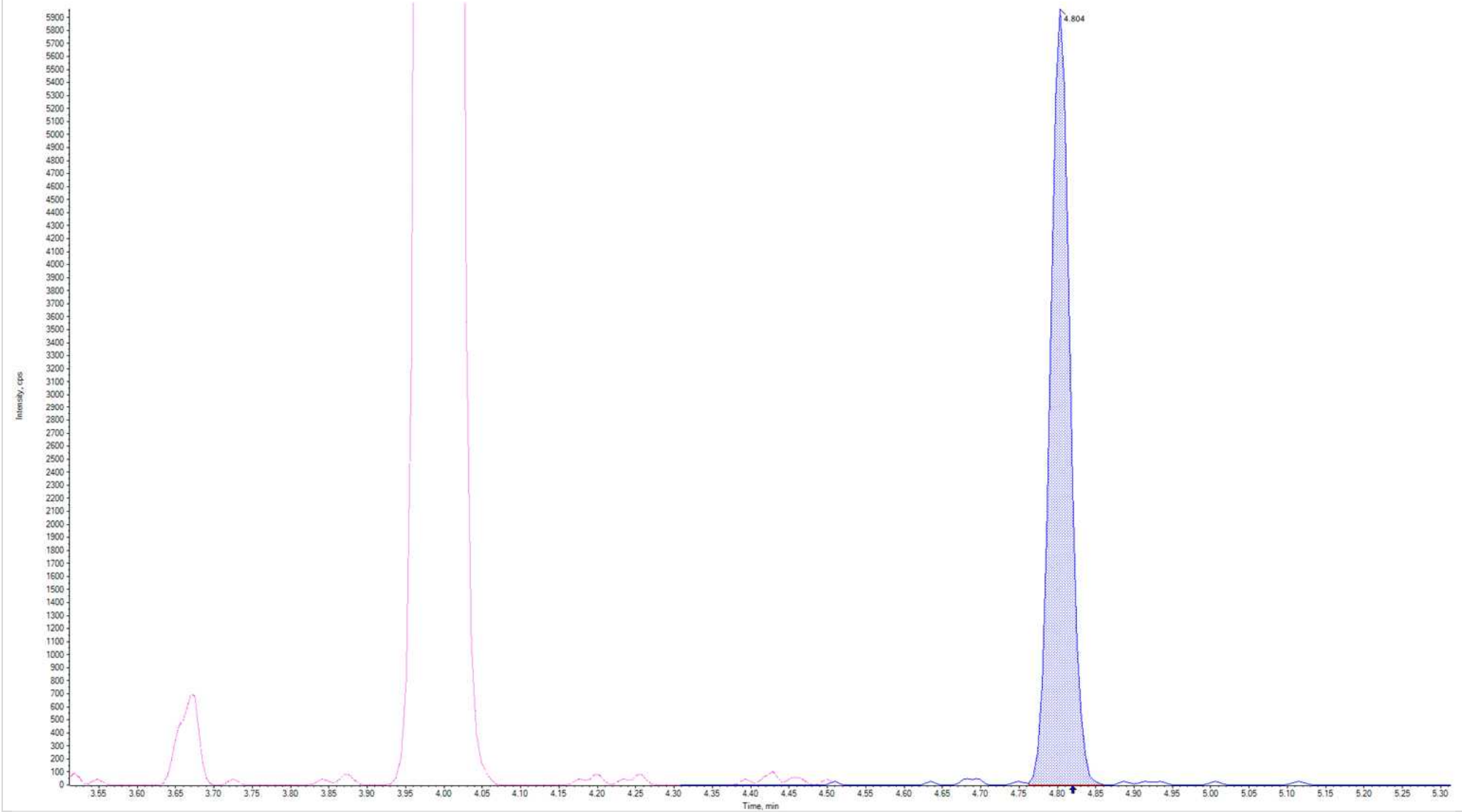
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PFDS
Sample: WG2038443-2R S/N:720.7 Points Across peak:23



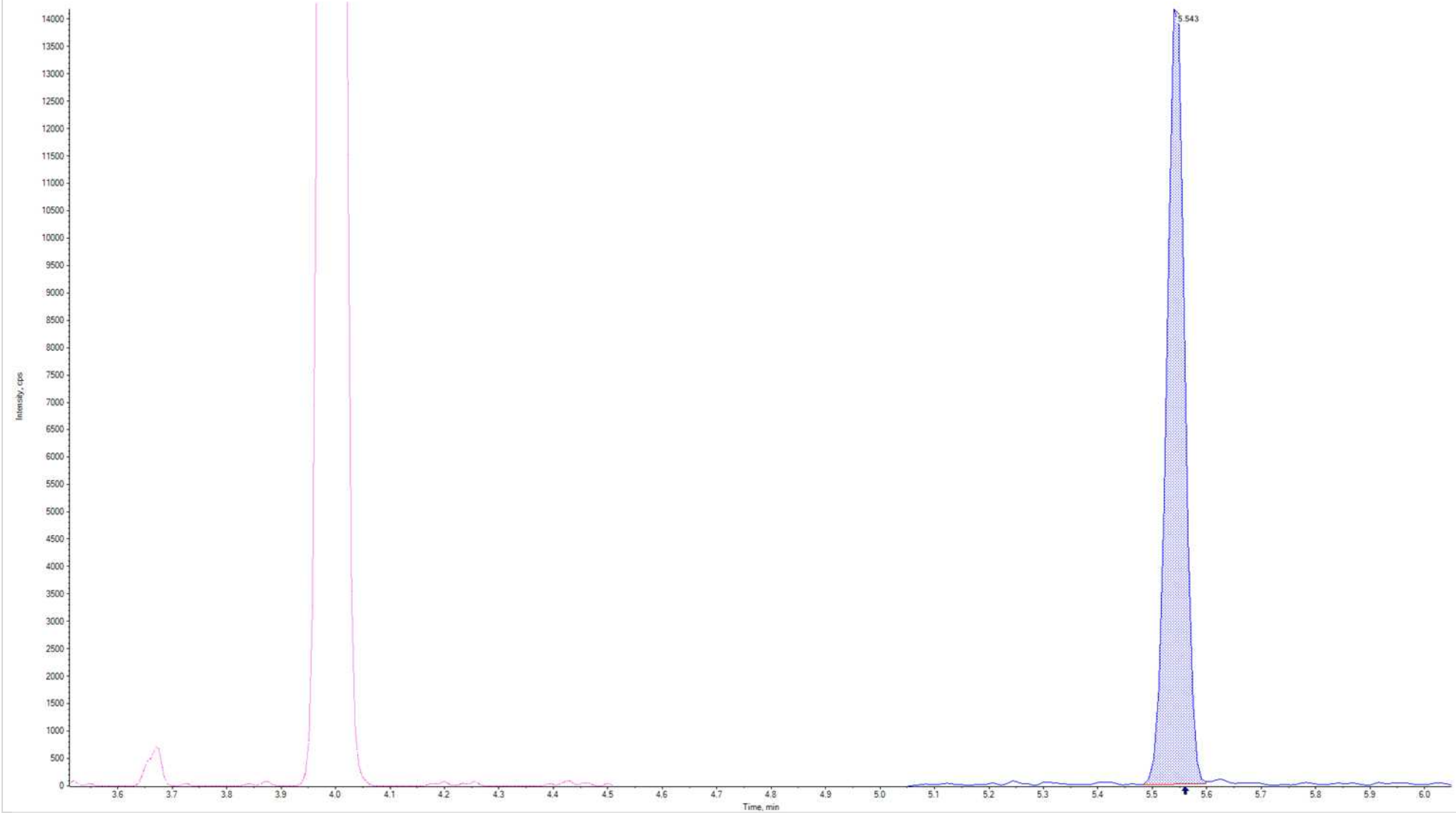
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Alpha Analytical LLC
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PFDS_2
Sample: WG2038443-2R S/N:209.3 Points Across peak:20



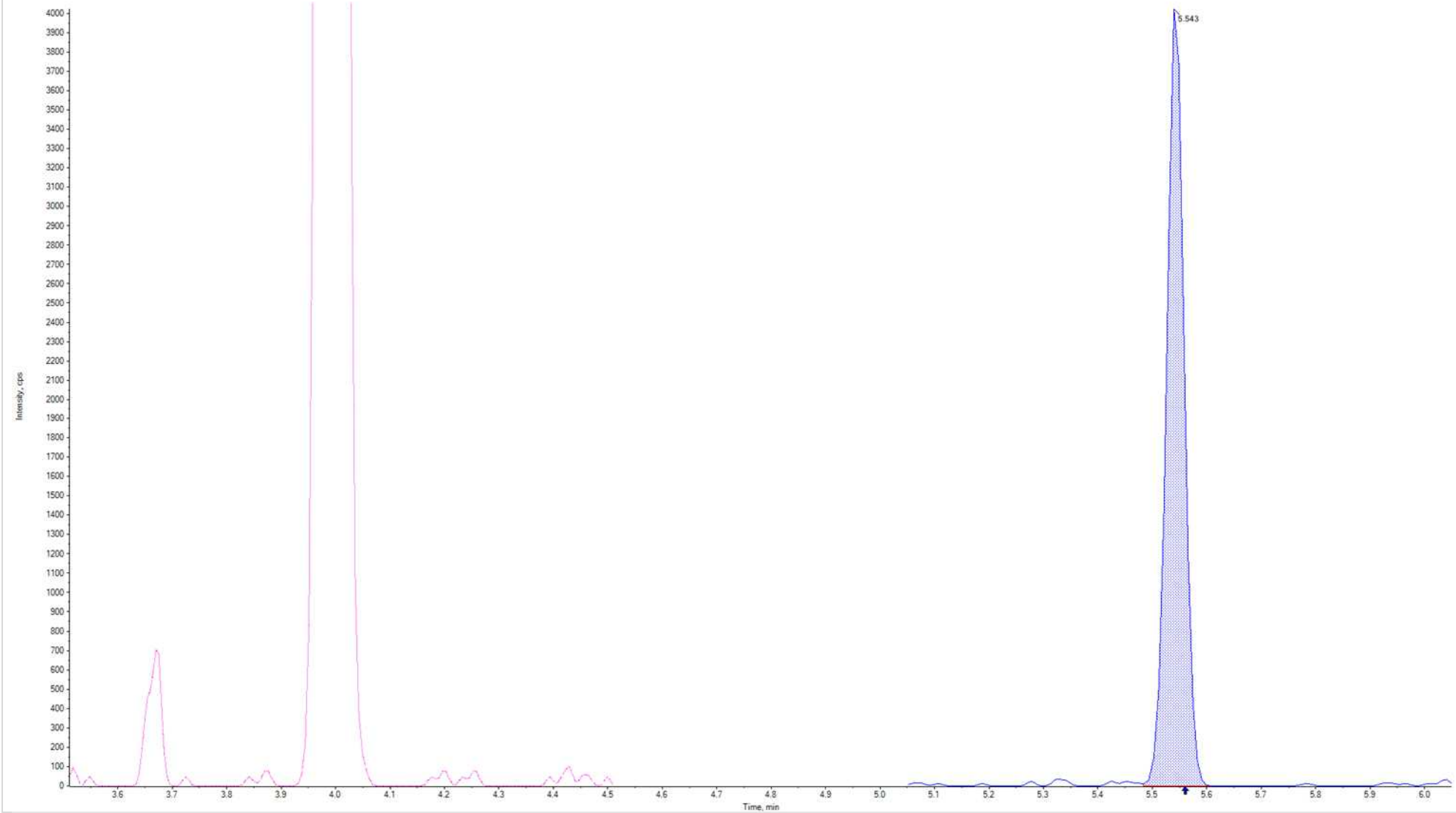
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Alpha Analytical LLC
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PFDoS
Sample: WG2038443-2R S/N:1099.5 Points Across peak:15



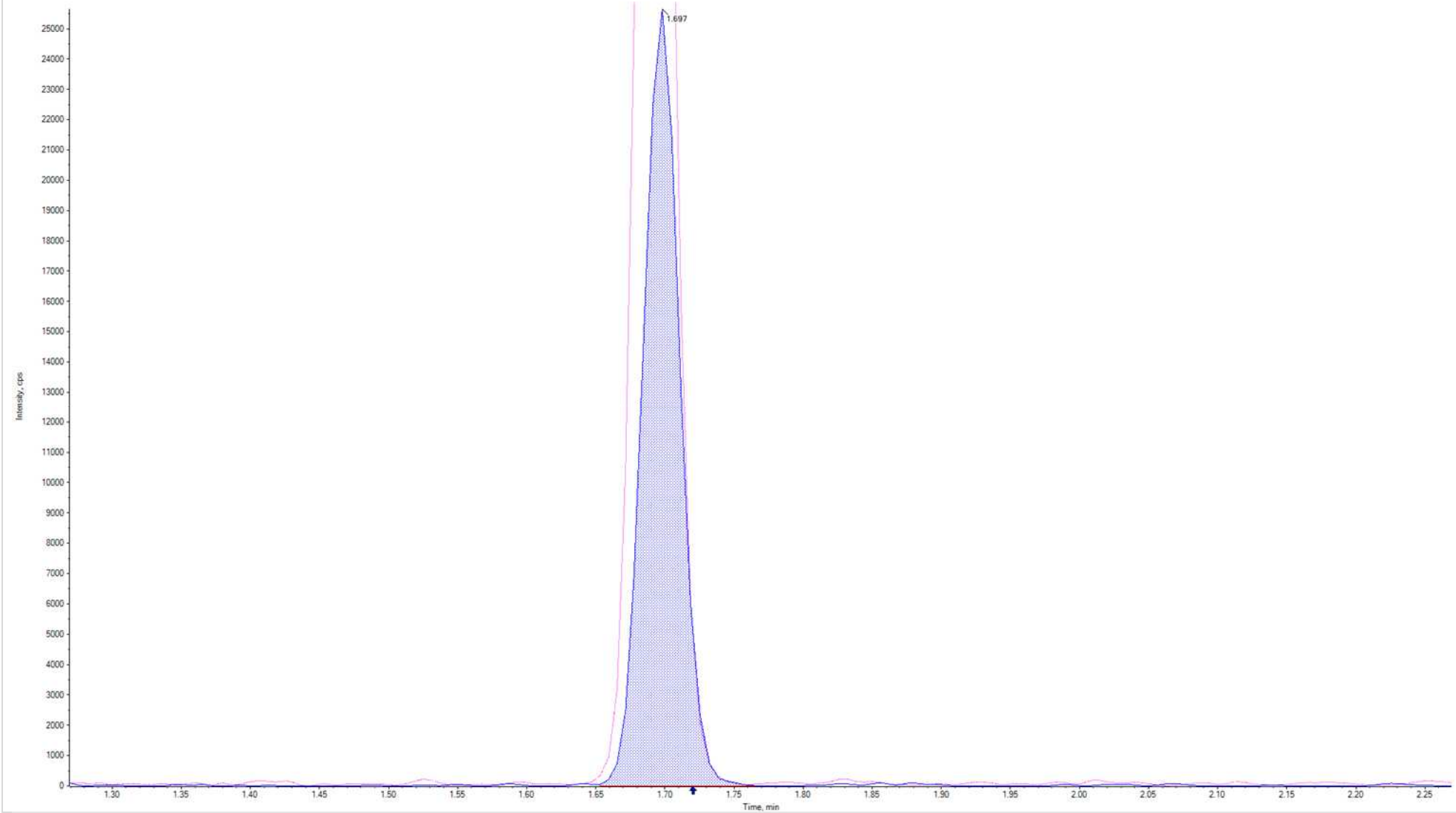
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

PFDoS_2
Sample: WG2038443-2R S/N:312.5 Points Across peak:18



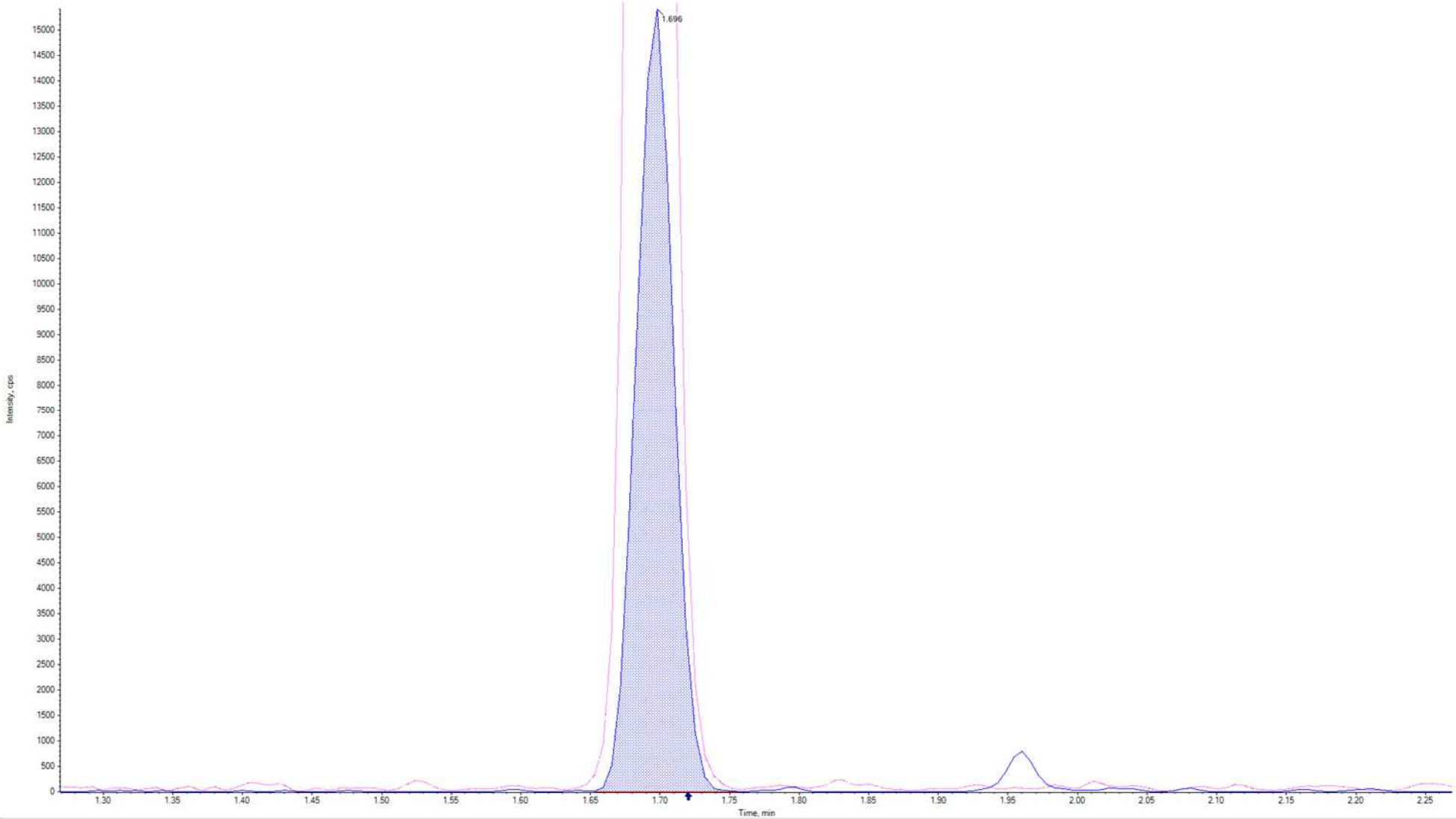
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Alpha Analytical LLC
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4:2FTS
Sample: WG2038443-2R S/N:964.4 Points Across peak:21



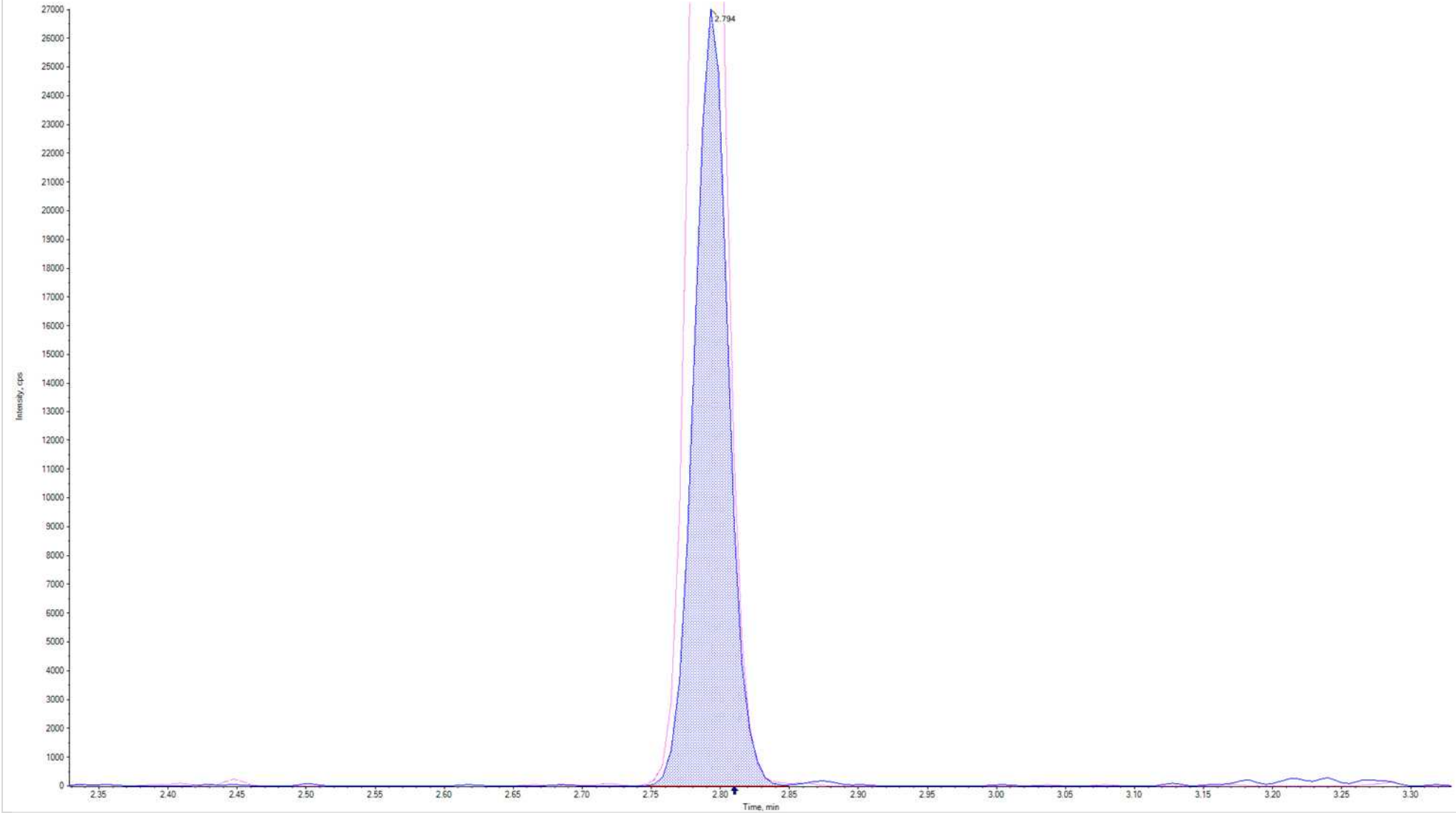
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Alpha Analytical LLC
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4:2FTS_2
Sample: WG2038443-2R S/N:579.2 Points Across peak:18



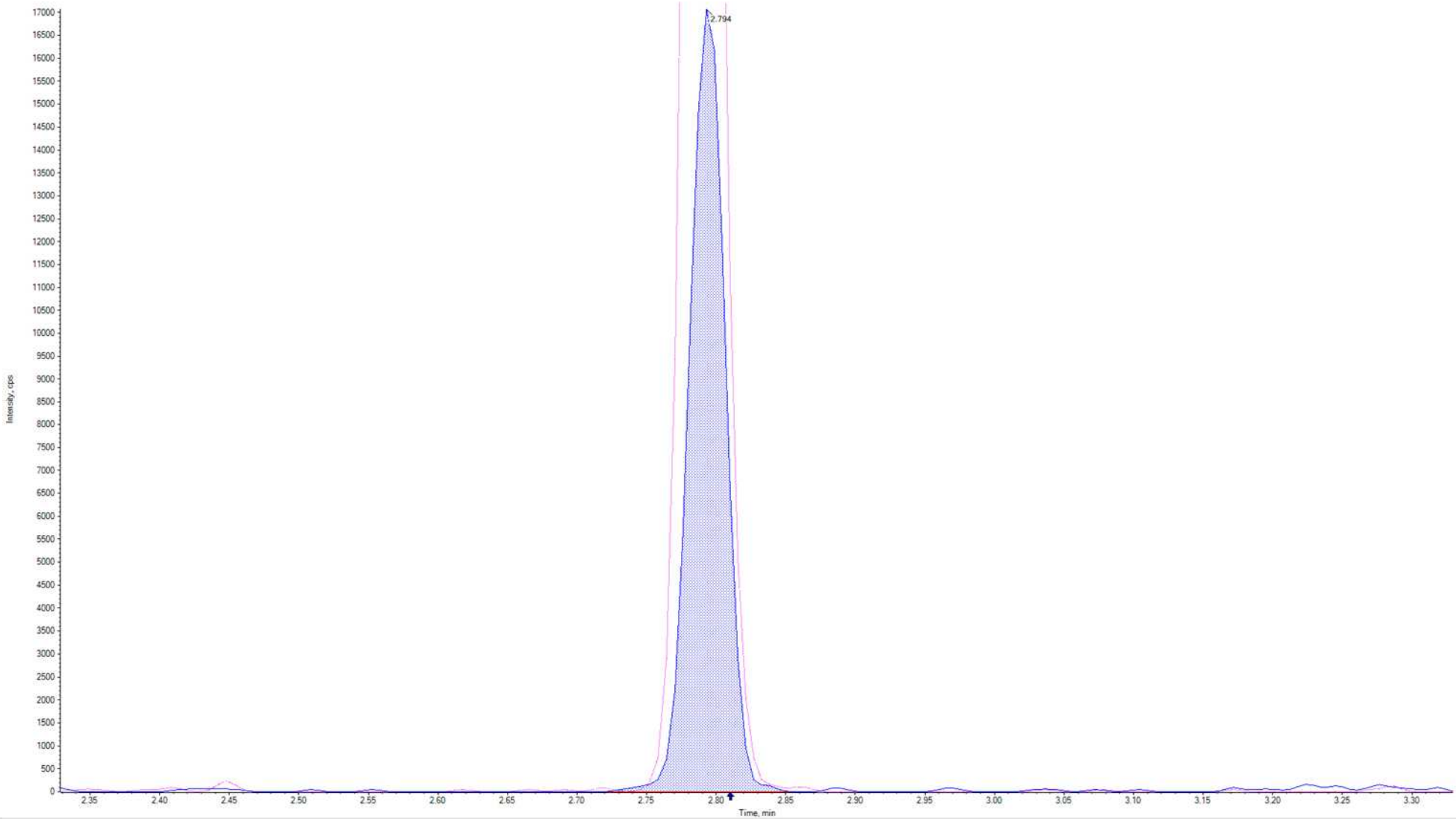
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Alpha Analytical LLC
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6:2FTS
Sample: WG2038443-2R S/N:541.7 Points Across peak:23



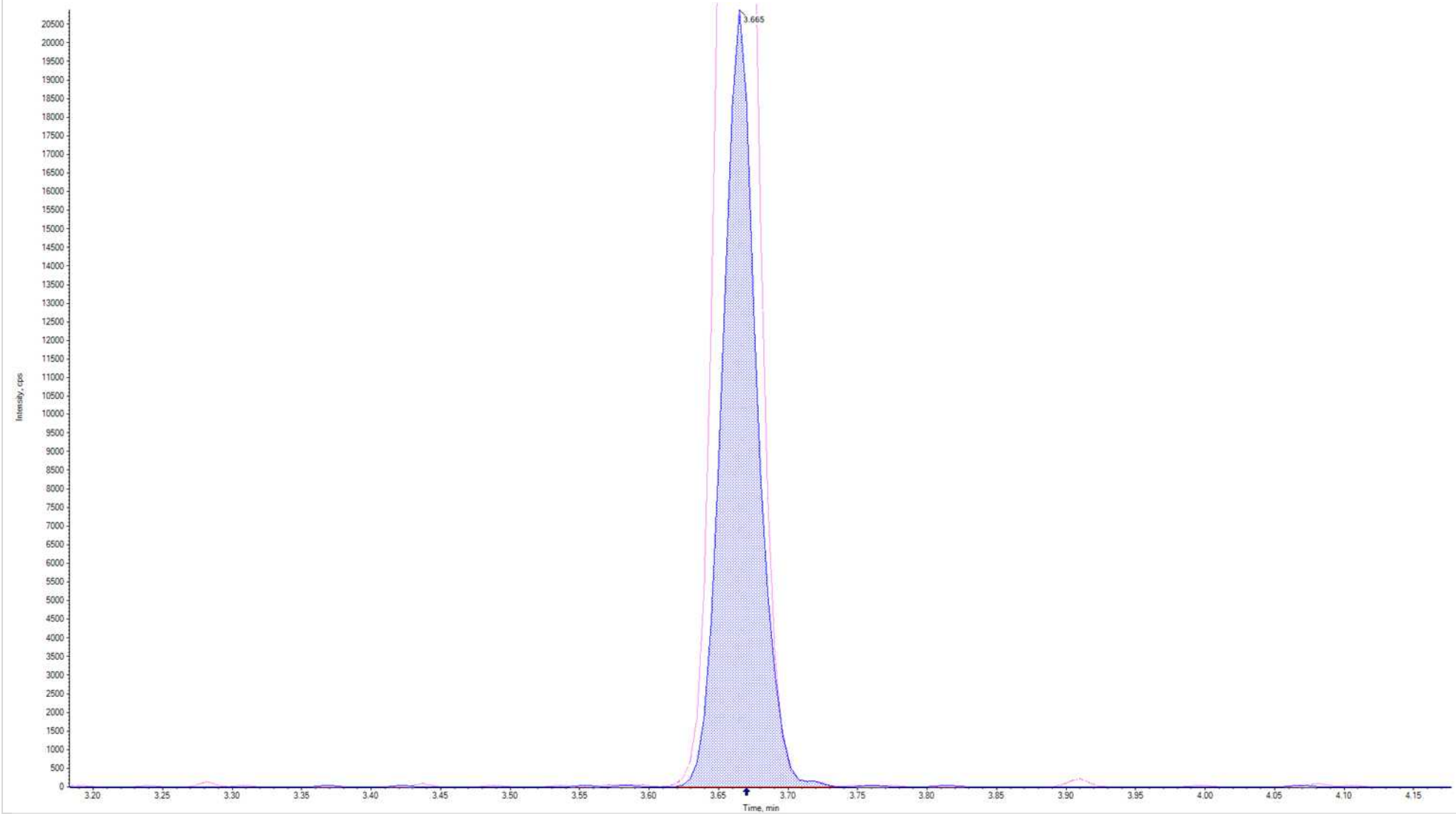
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

6:2FTS_2
Sample: WG2038443-2R S/N:342.3 Points Across peak:28



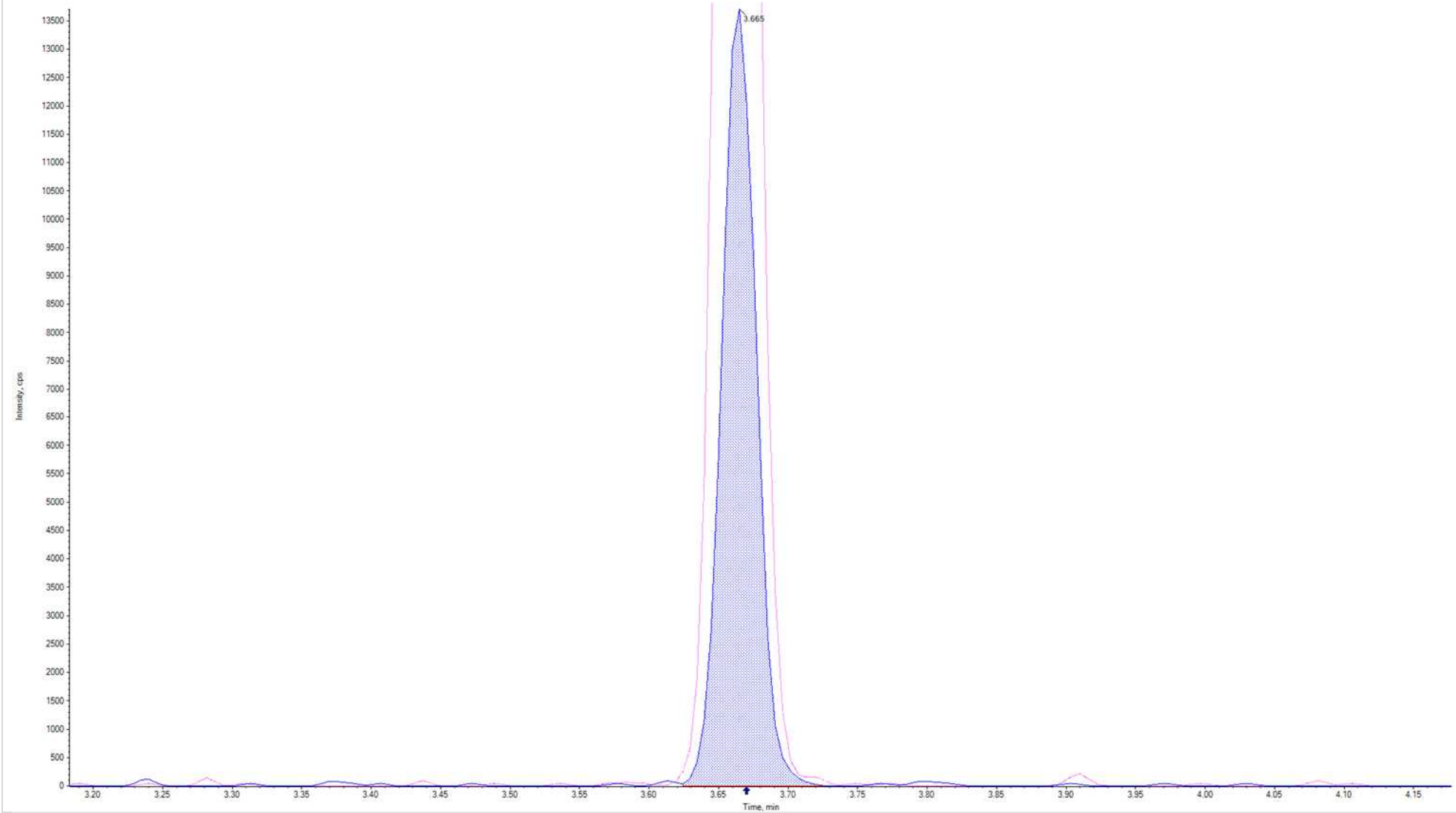
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

8:2FTS
Sample: WG2038443-2R S/N:418.8 Points Across peak:26



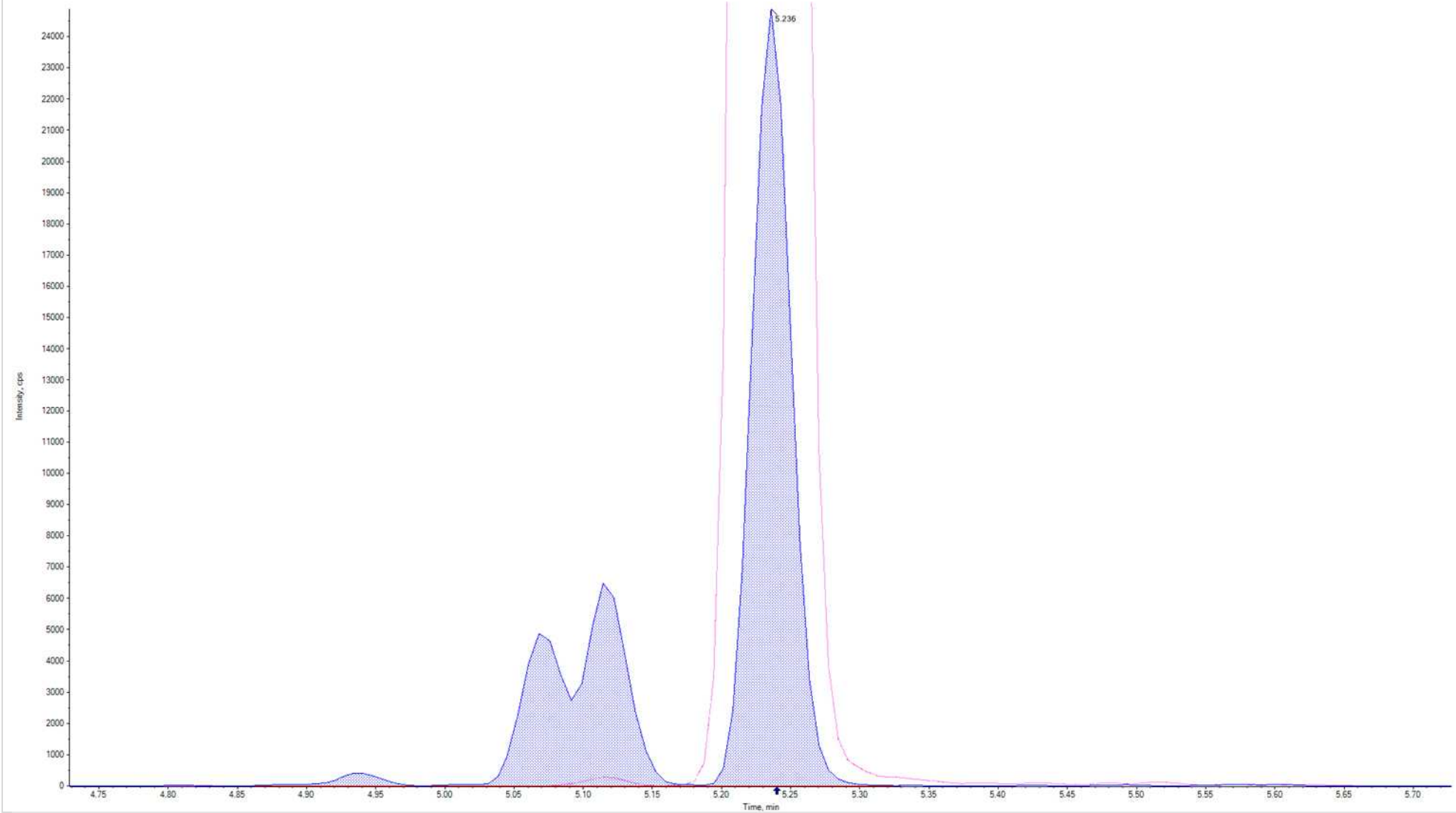
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

8:2FTS_2
Sample: WG2038443-2R S/N:274.9 Points Across peak:23



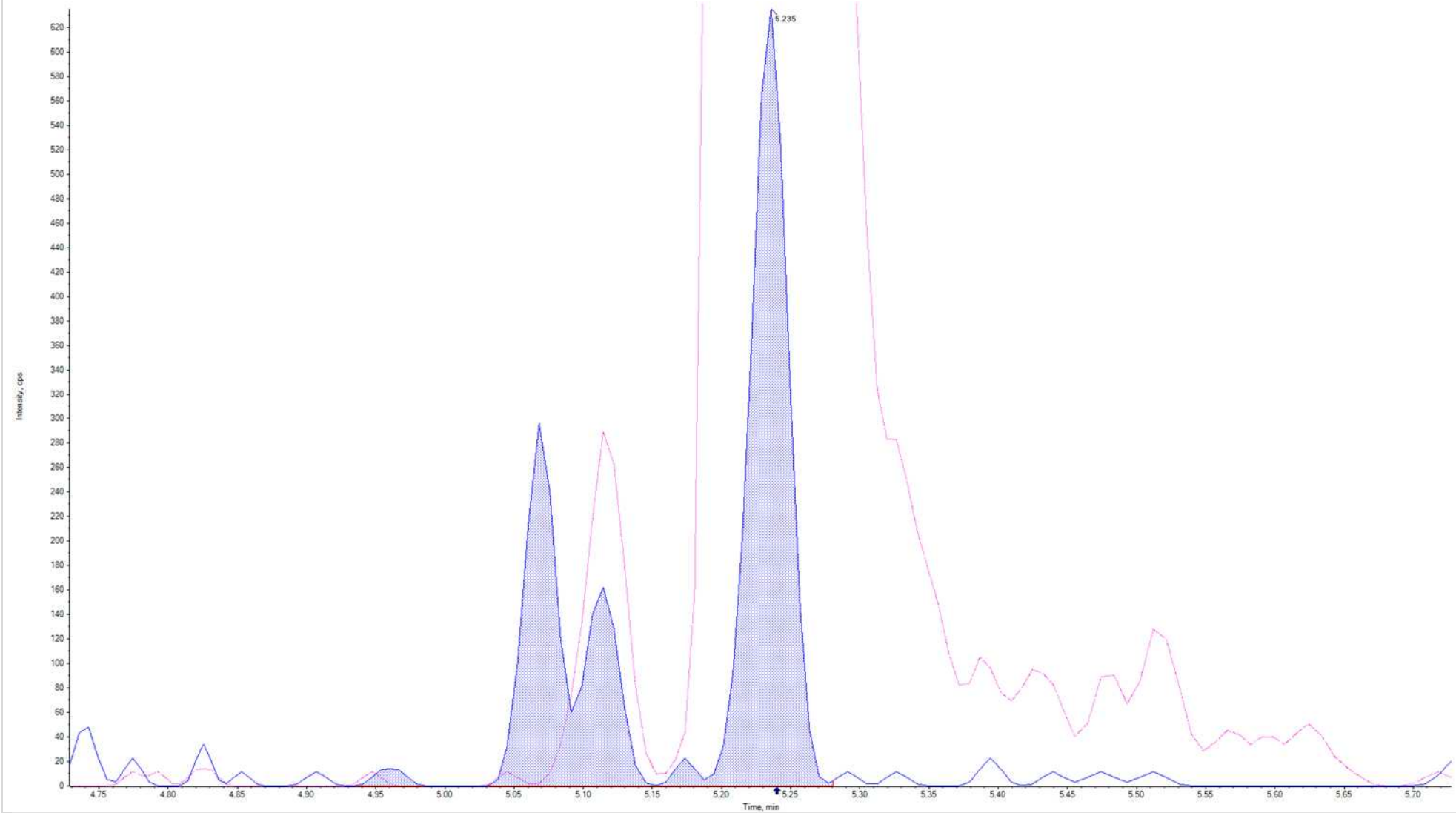
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
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PFOSA
Sample: WG2038443-2R S/N:370.4 Points Across peak:72



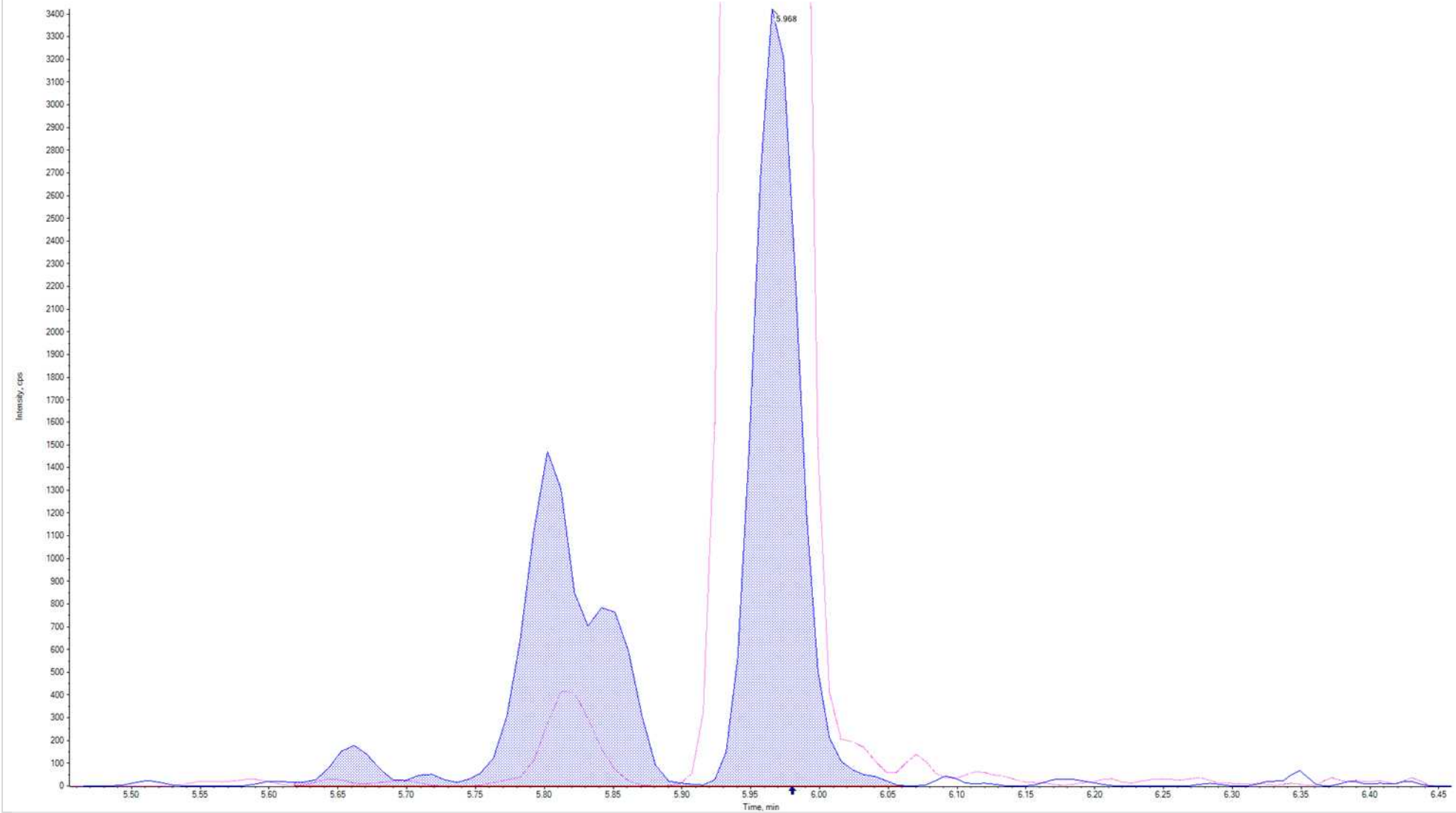
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFOSA_2
Sample: WG2038443-2R S/N:55.7 Points Across peak:52



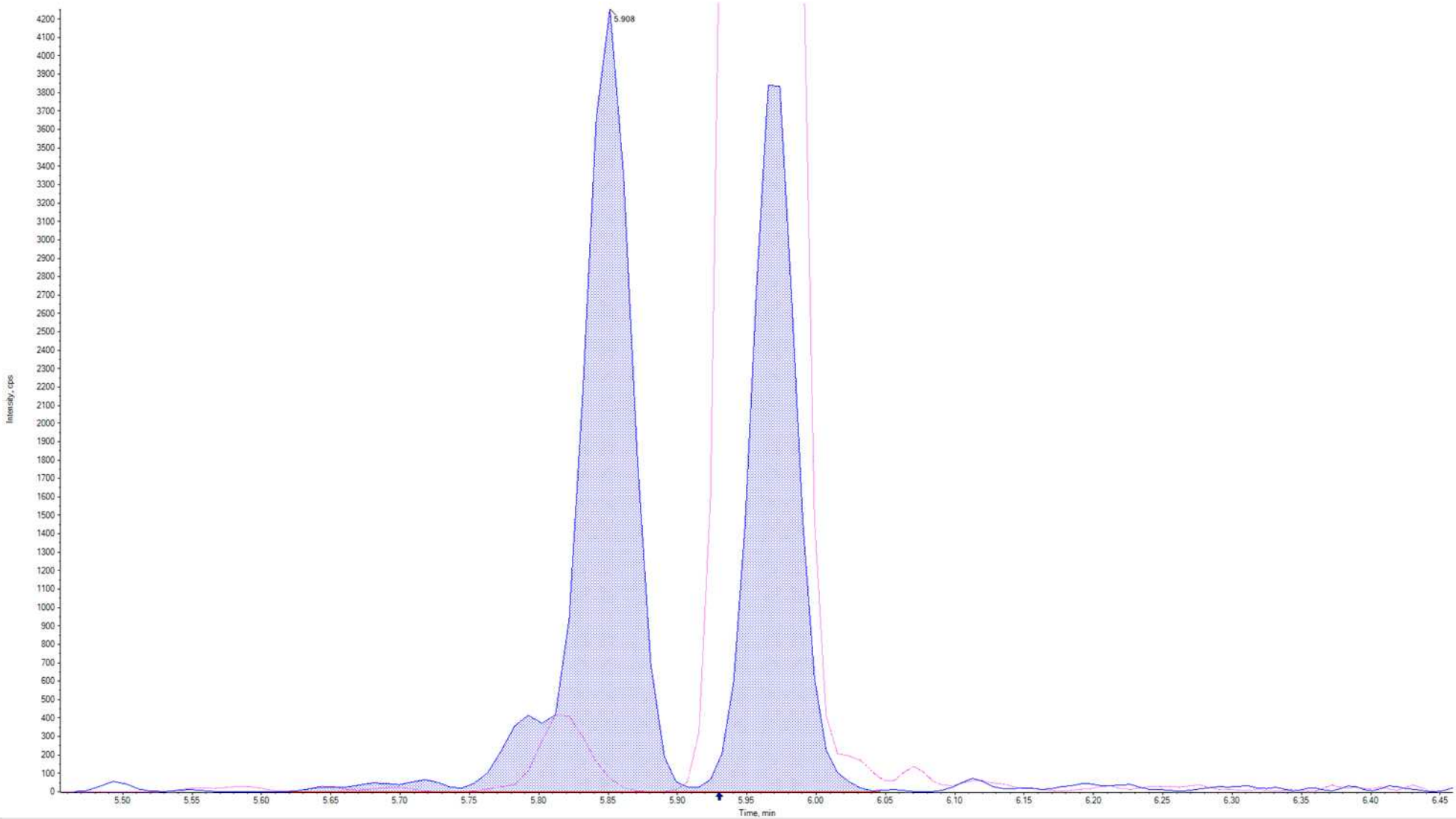
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

NMeFOSA
Sample: WG2038443-2R S/N:149.7 Points Across peak:51



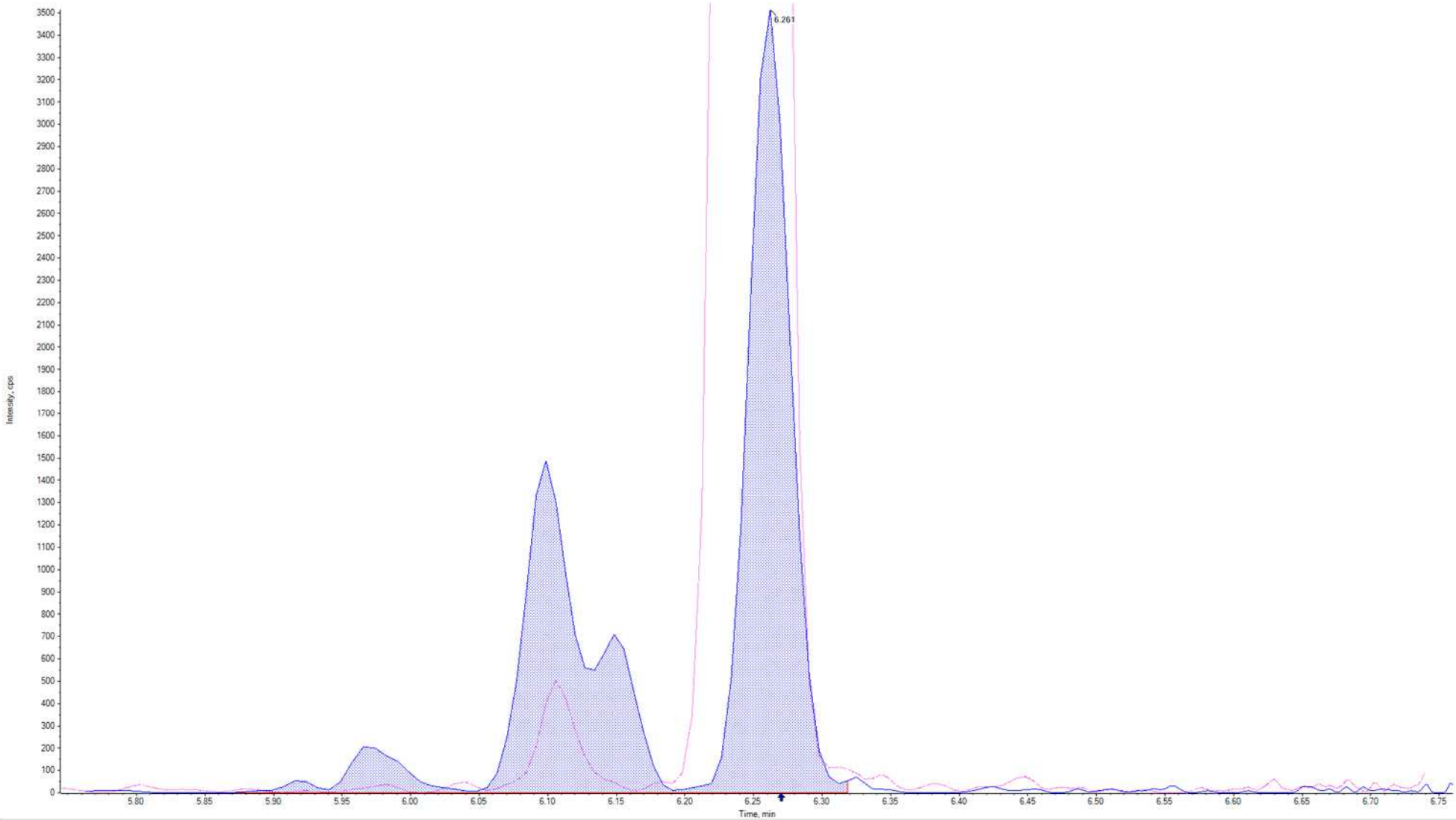
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_44.wiff2_3
Last Altered: 3/11/2025 10:49:02 PM
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NMeFOSA_2
Sample: WG2038443-2R S/N:147.2 Points Across peak:49



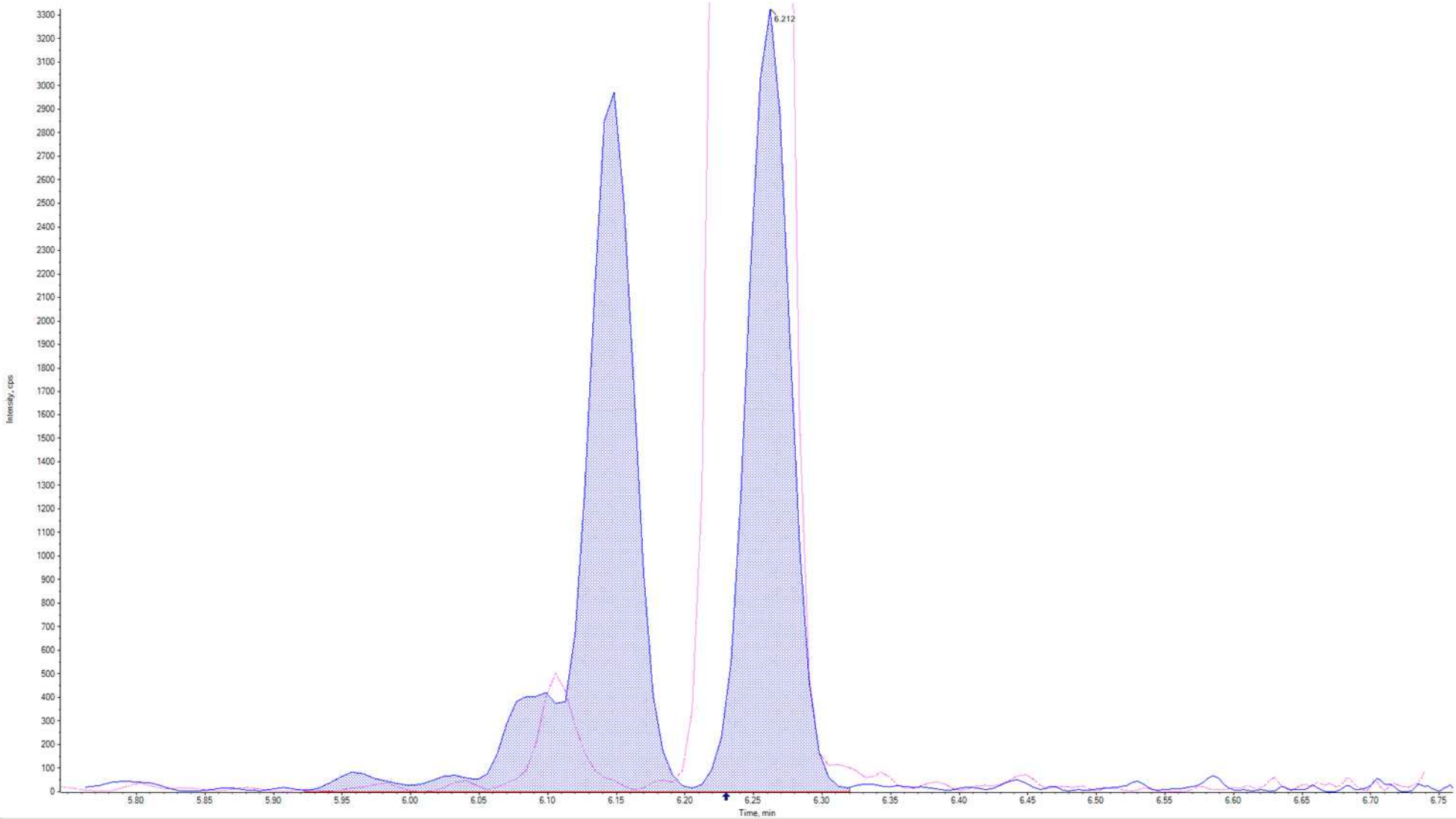
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_44.wiff2_3
Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

NEtFOSA
Sample: WG2038443-2R S/N:246.3 Points Across peak:60



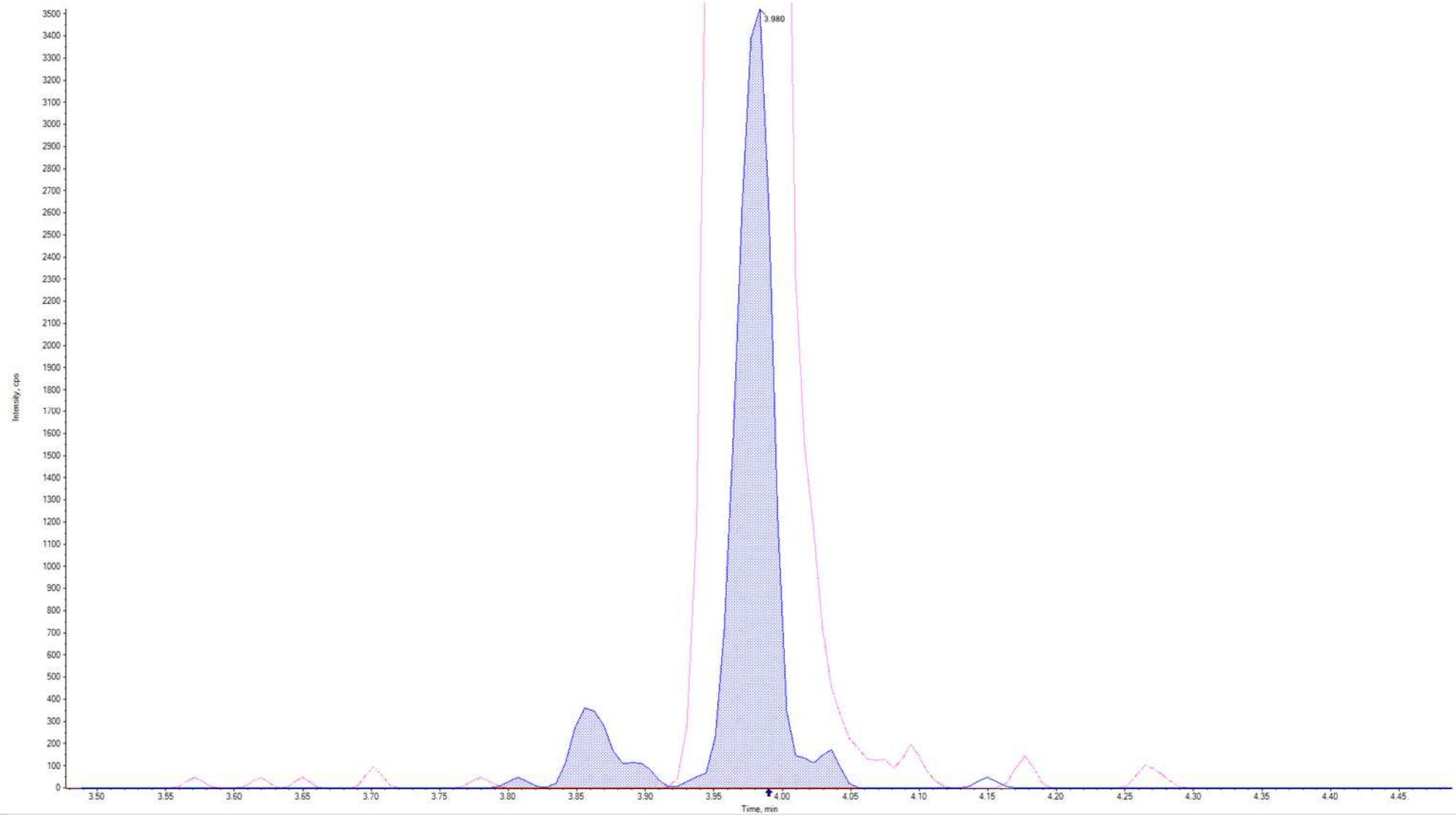
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_44.wiff2_3
Last Altered: 3/11/2025 10:49:02 PM
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NEtFOSA_2
Sample: WG2038443-2R S/N:230.0 Points Across peak:56



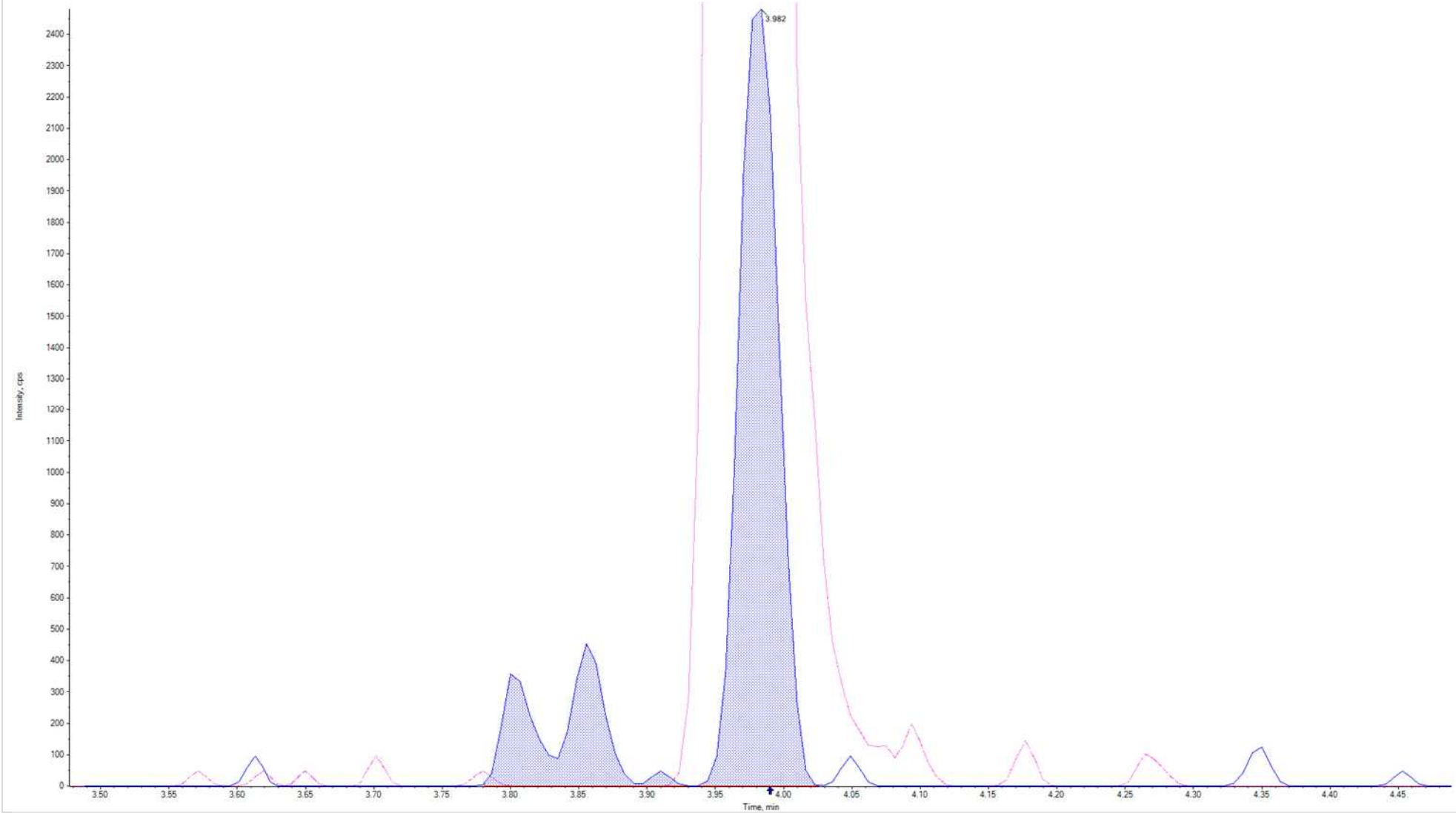
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

NMeFOSAA
Sample: WG2038443-2R S/N:70.6 Points Across peak:51



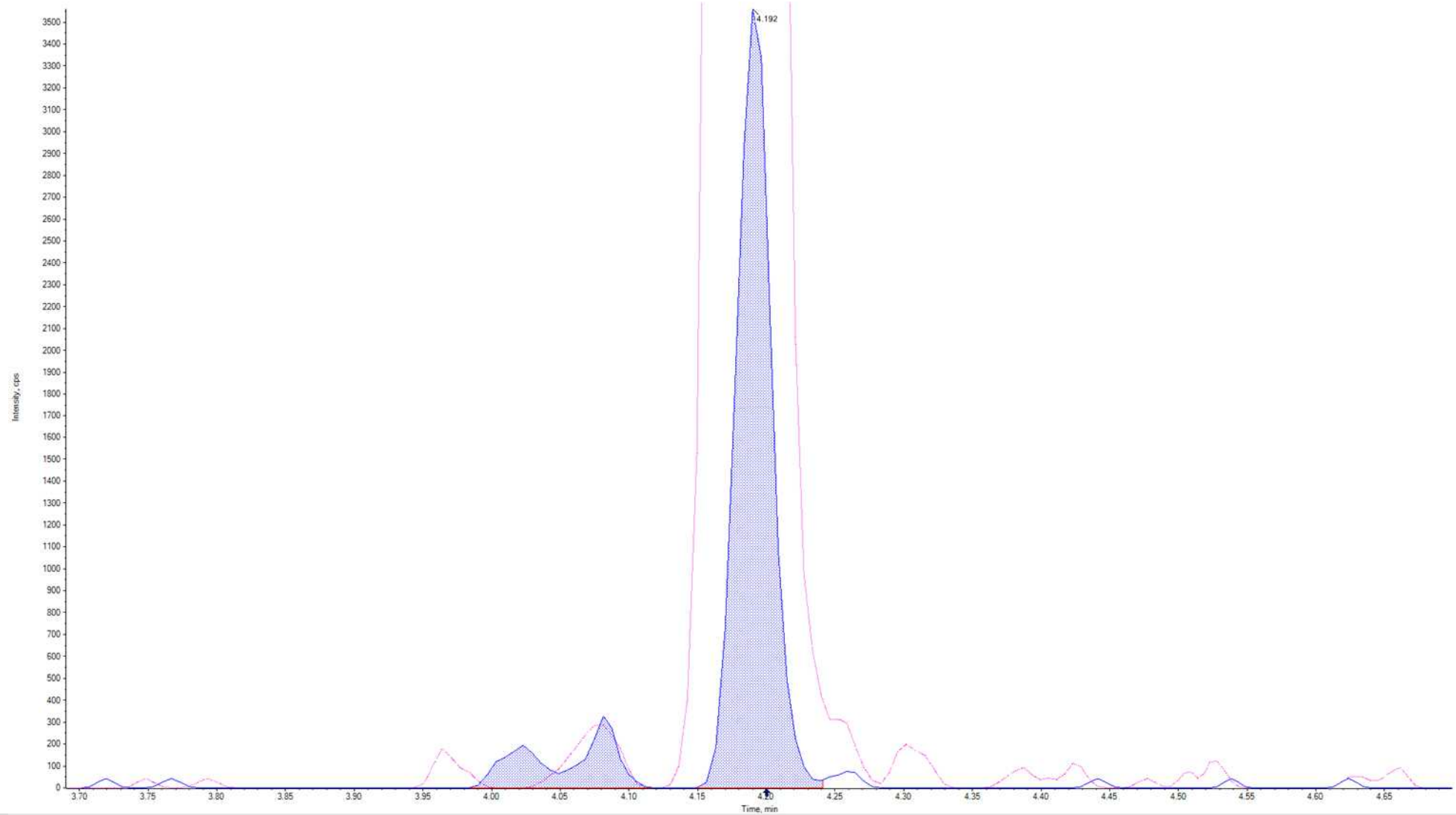
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
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NMeFOSAA_2
Sample: WG2038443-2R S/N:49.7 Points Across peak:38



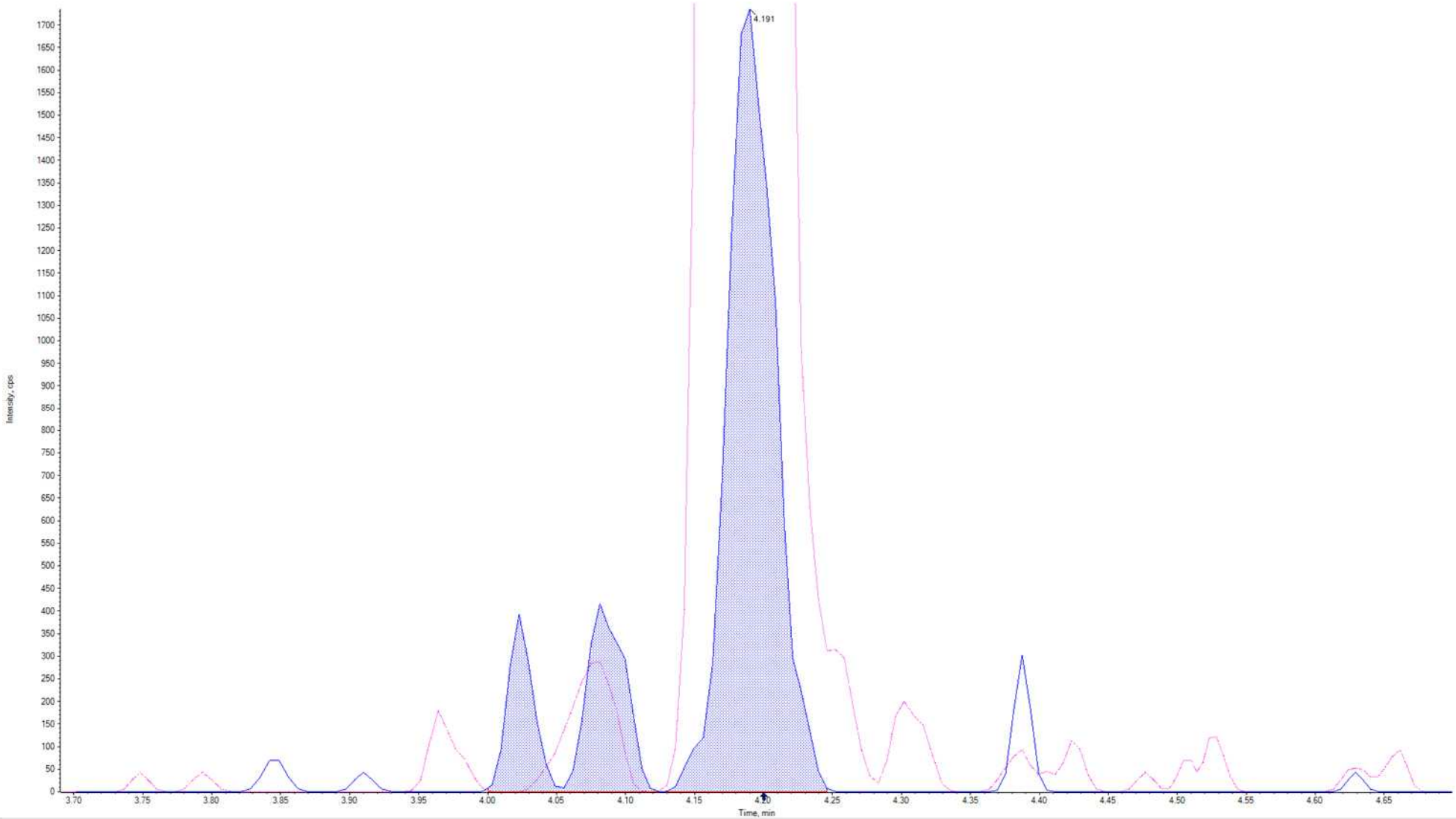
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Last Altered: 3/11/2025 10:49:02 PM
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NEtFOSAA
Sample: WG2038443-2R S/N:80.3 Points Across peak:43



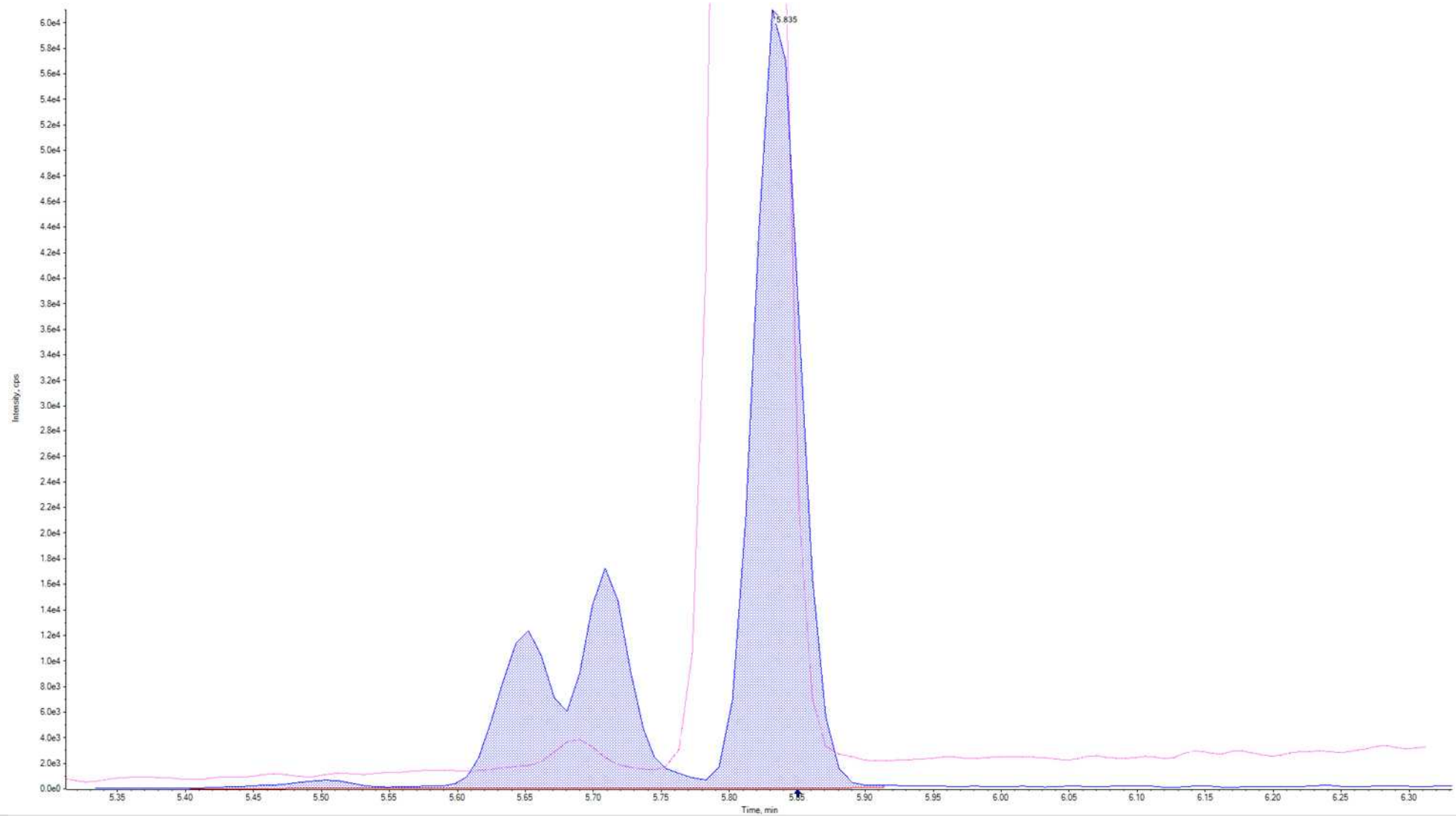
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
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NEtFOSAA_2
Sample: WG2038443-2R S/N:39.1 Points Across peak:40



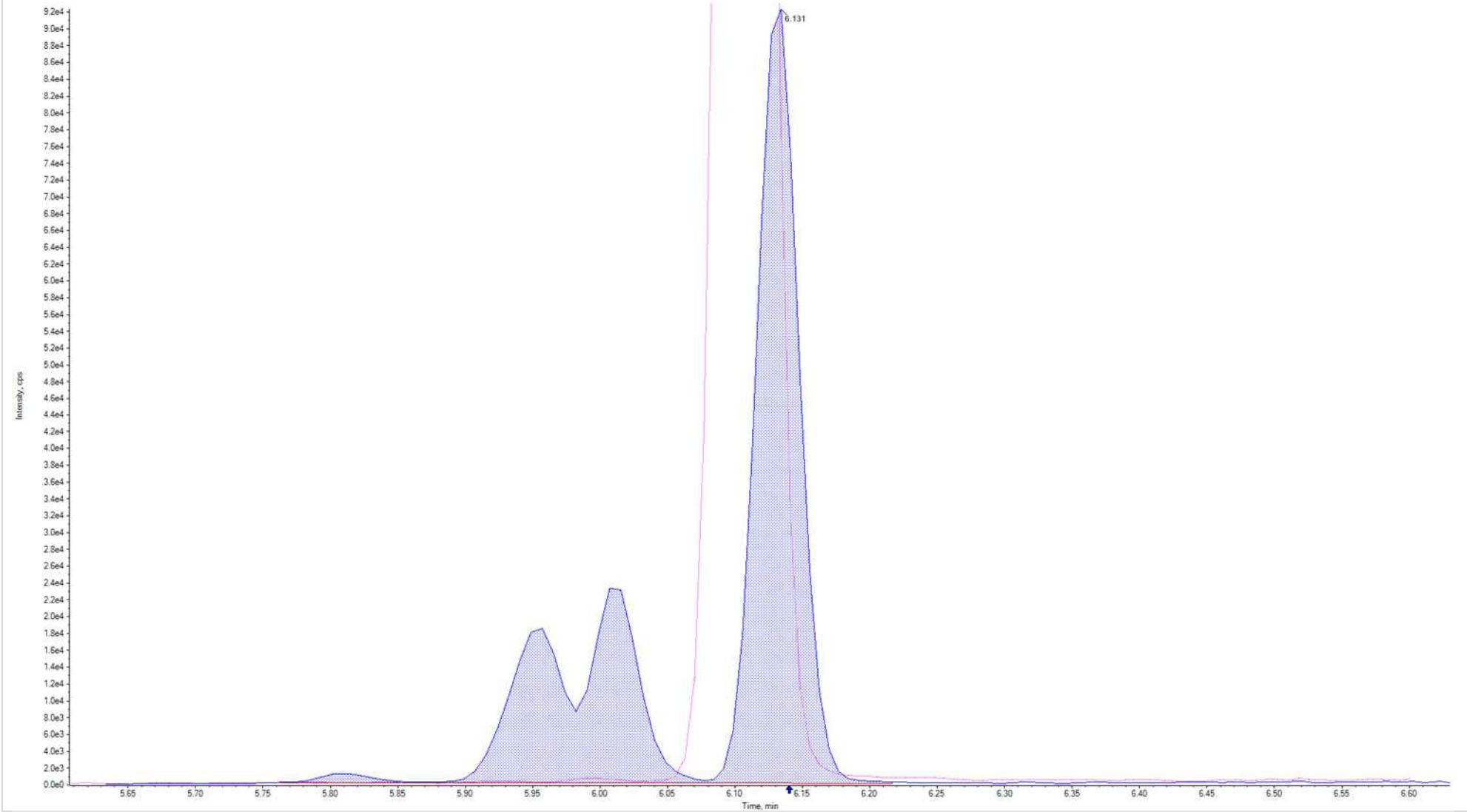
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Alpha Analytical LLC
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NMeFOSE
Sample: WG2038443-2R S/N:240.4 Points Across peak:58



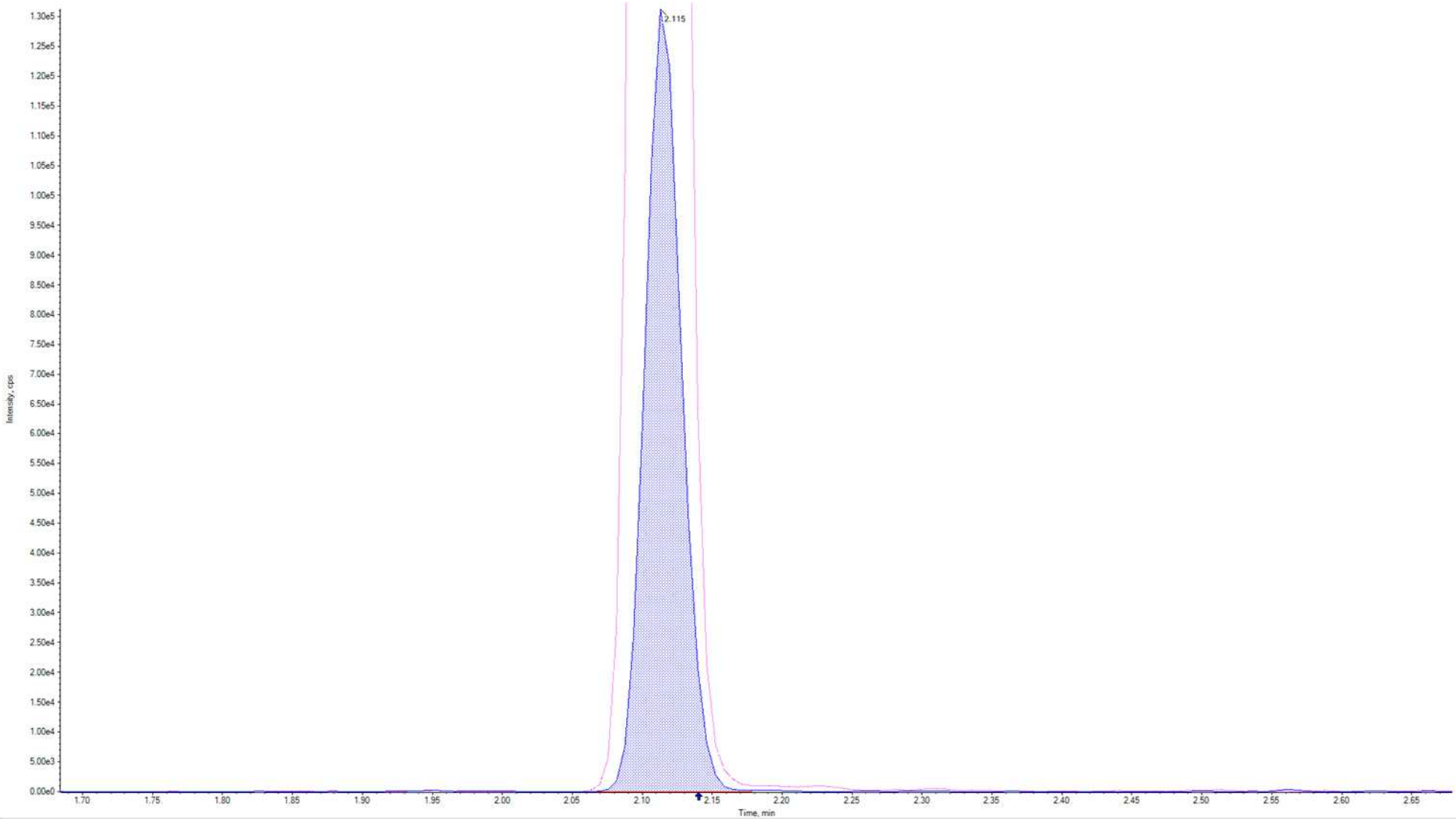
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Alpha Analytical LLC
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NEtFOSE
Sample: WG2038443-2R S/N:356.2 Points Across peak:58



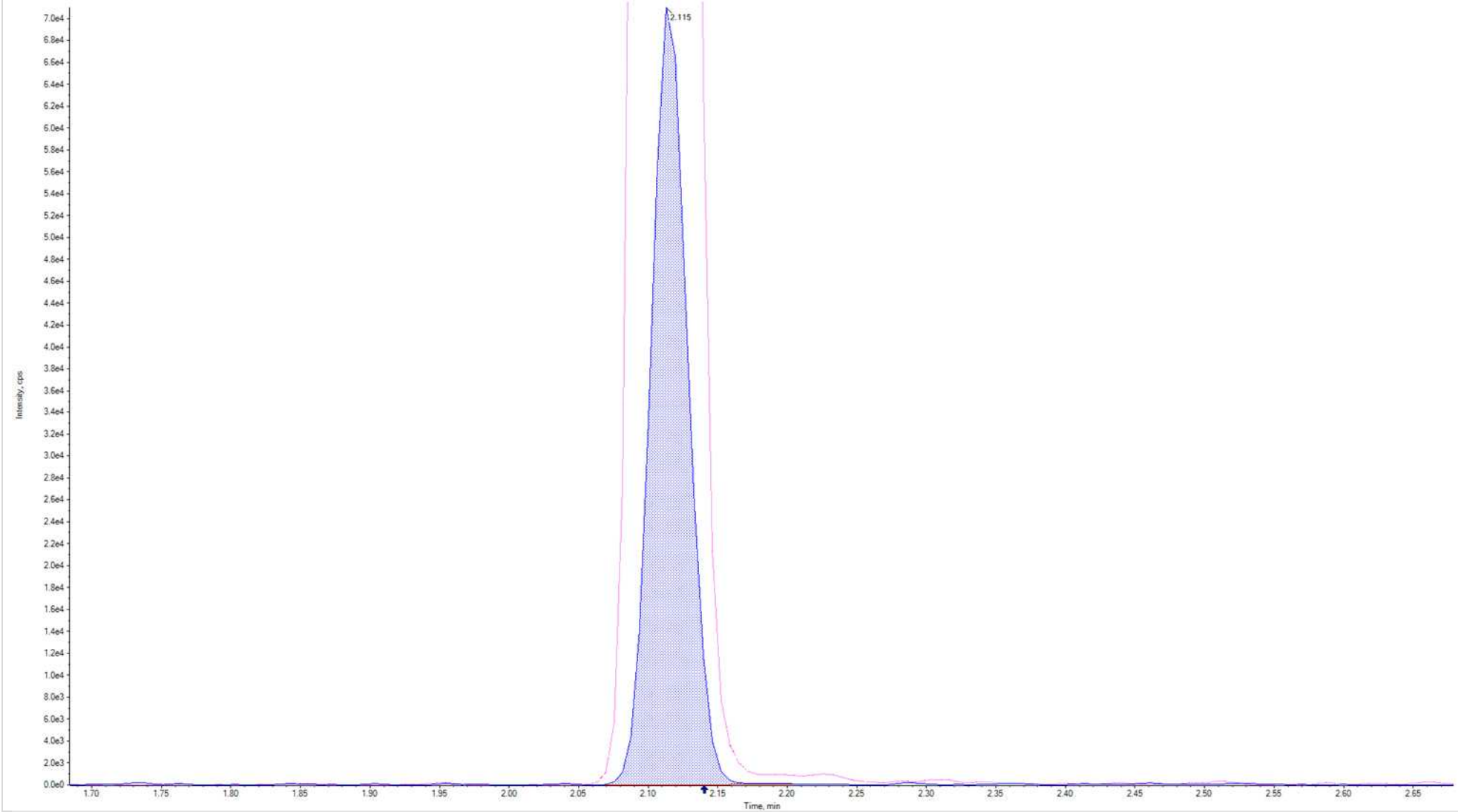
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
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HFPO-DA
Sample: WG2038443-2R S/N:2269.3 Points Across peak:21



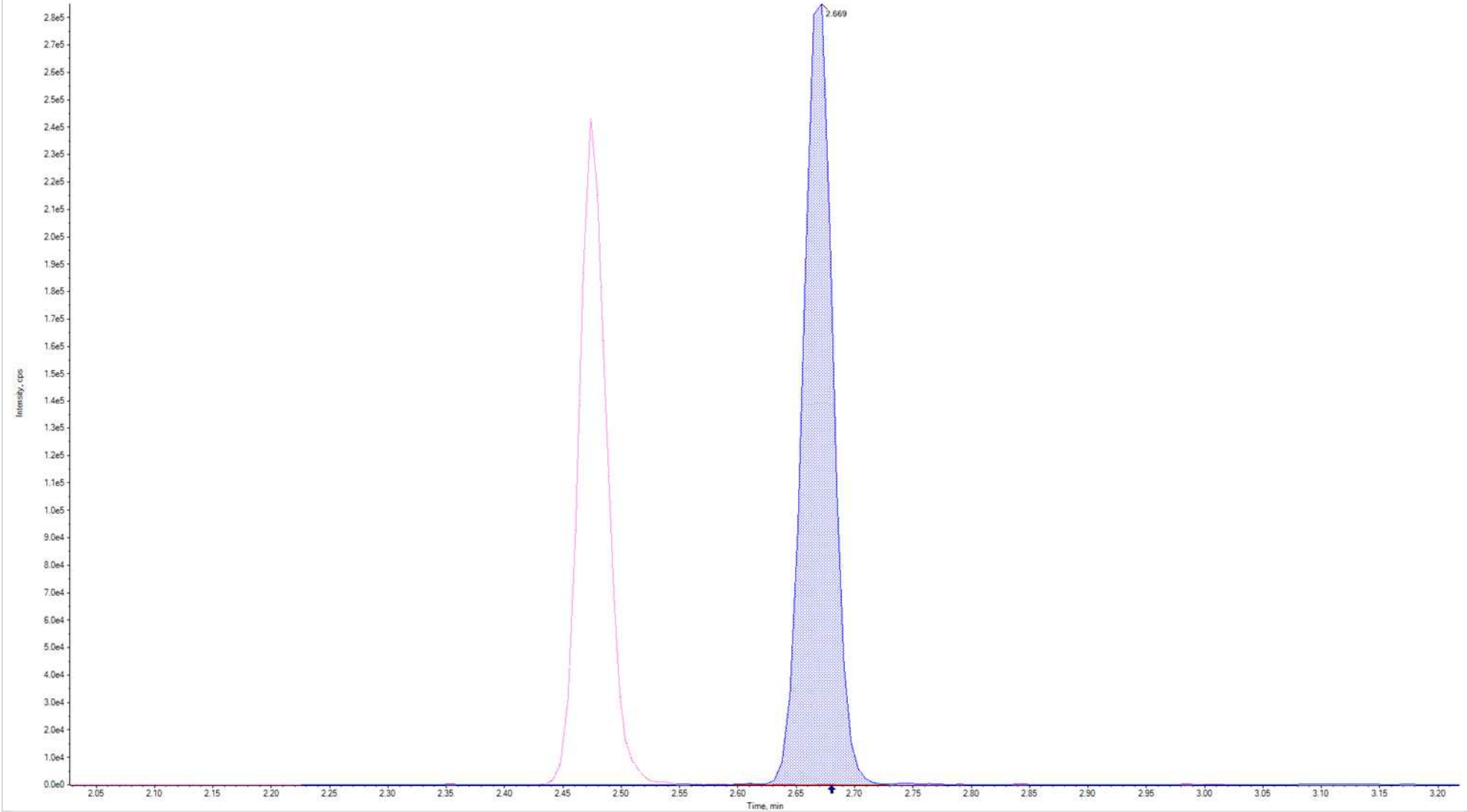
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Alpha Analytical LLC
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HFPO-DA_2
Sample: WG2038443-2R S/N:1508.4 Points Across peak:25



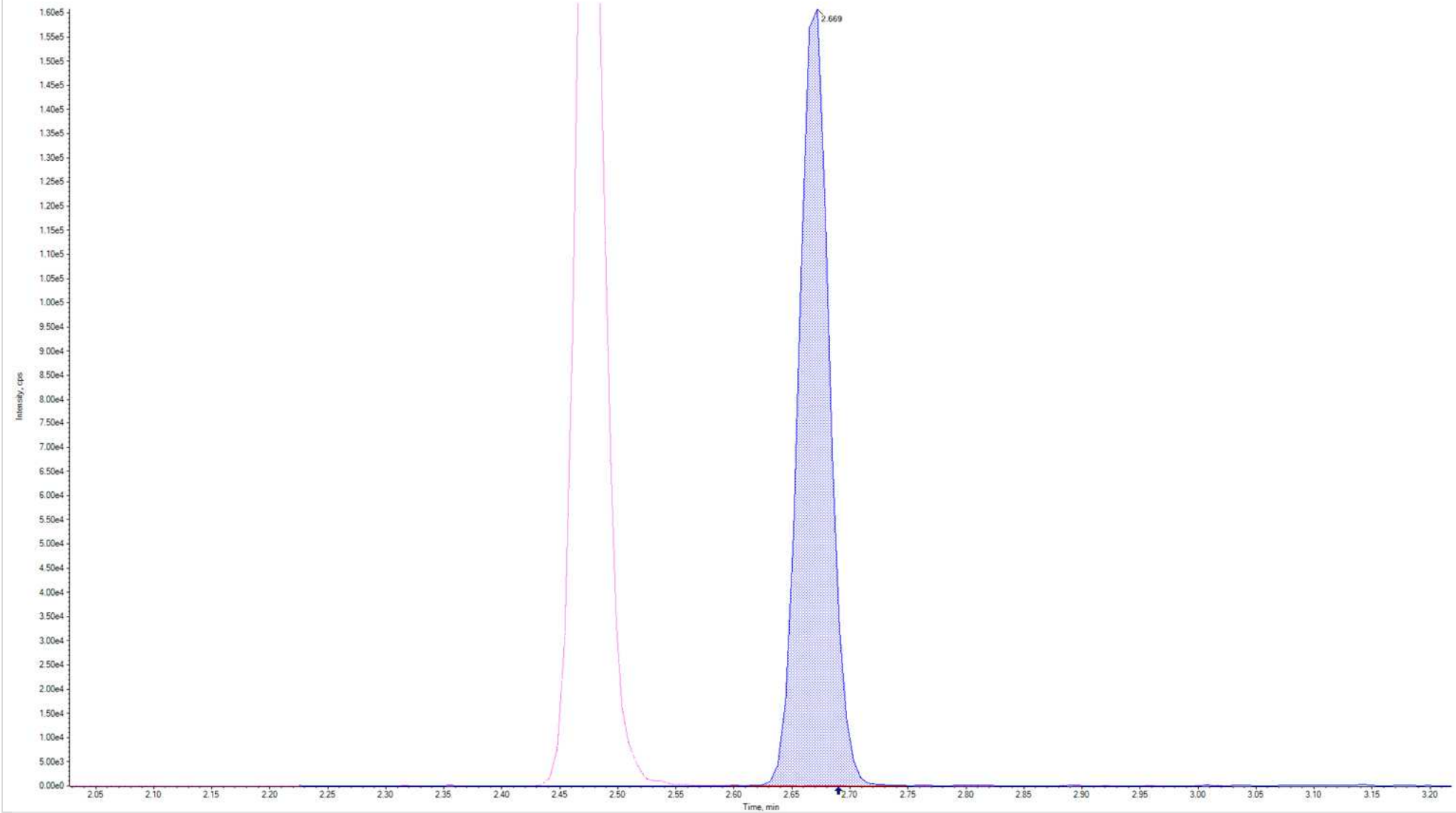
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

ADONA
Sample: WG2038443-2R S/N:3013.4 Points Across peak:25



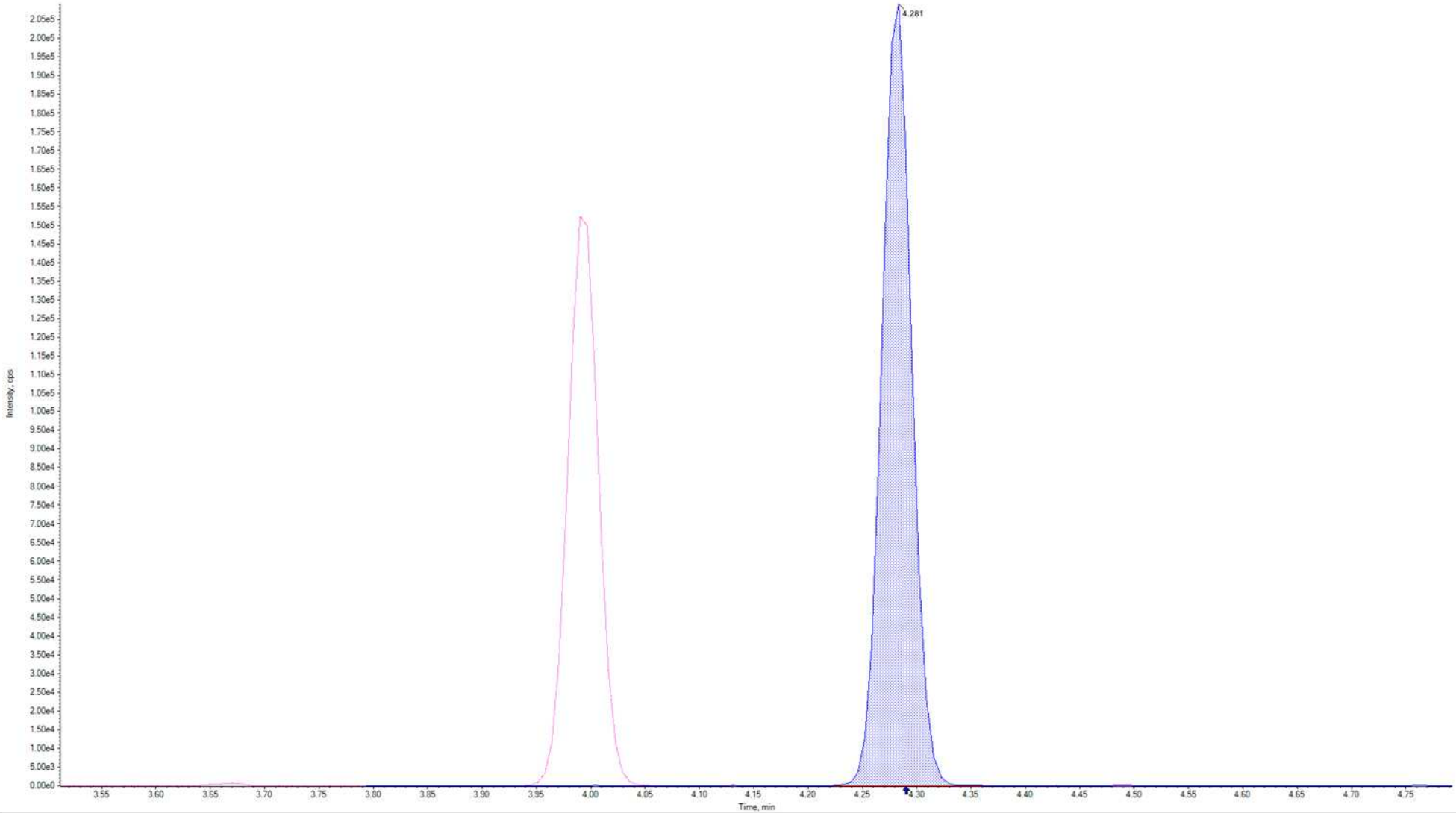
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ADONA_2
Sample: WG2038443-2R S/N:3223.6 Points Across peak:28



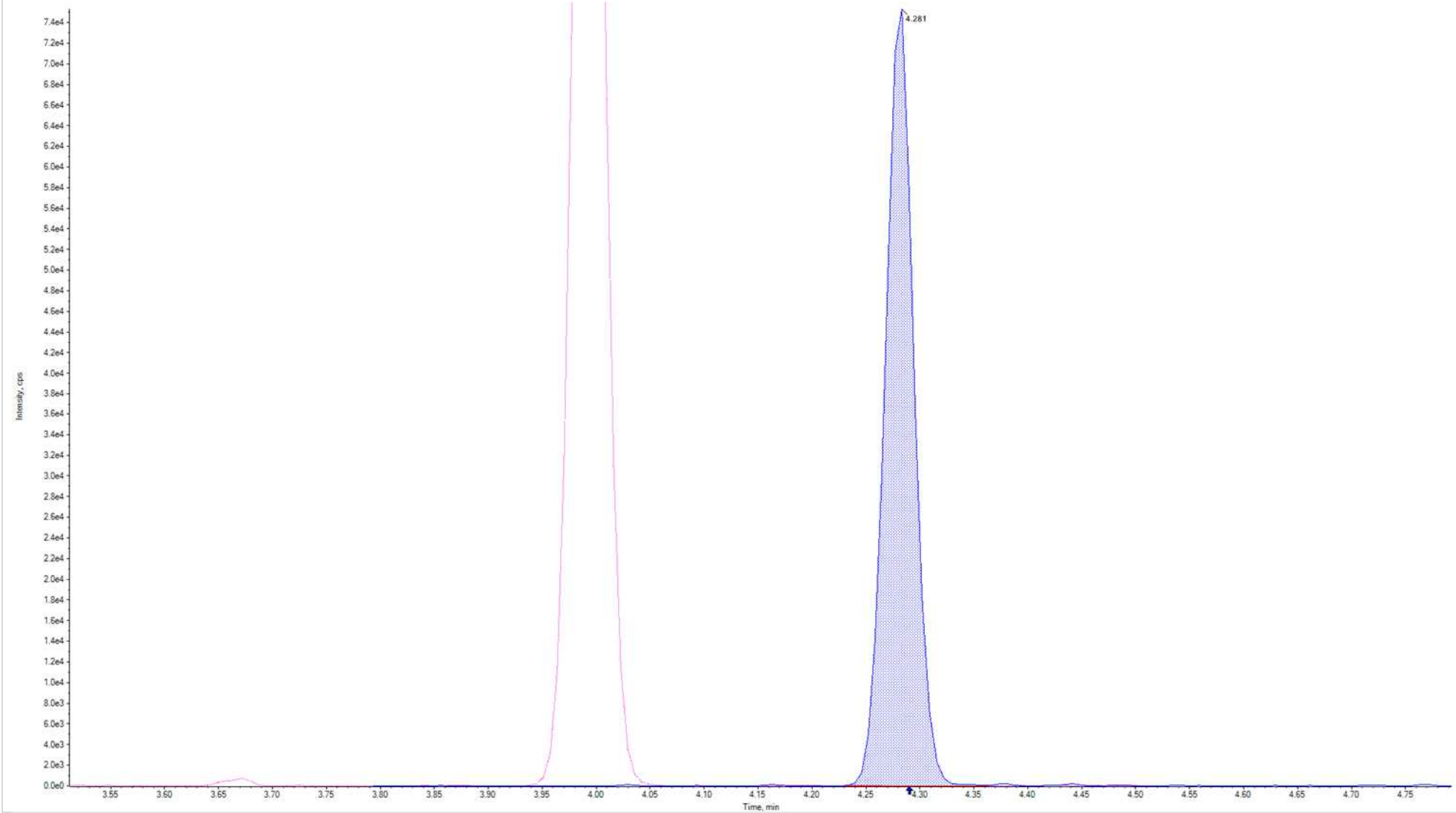
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

9Cl-PF3ONS
Sample: WG2038443-2R S/N:4719.2 Points Across peak:33



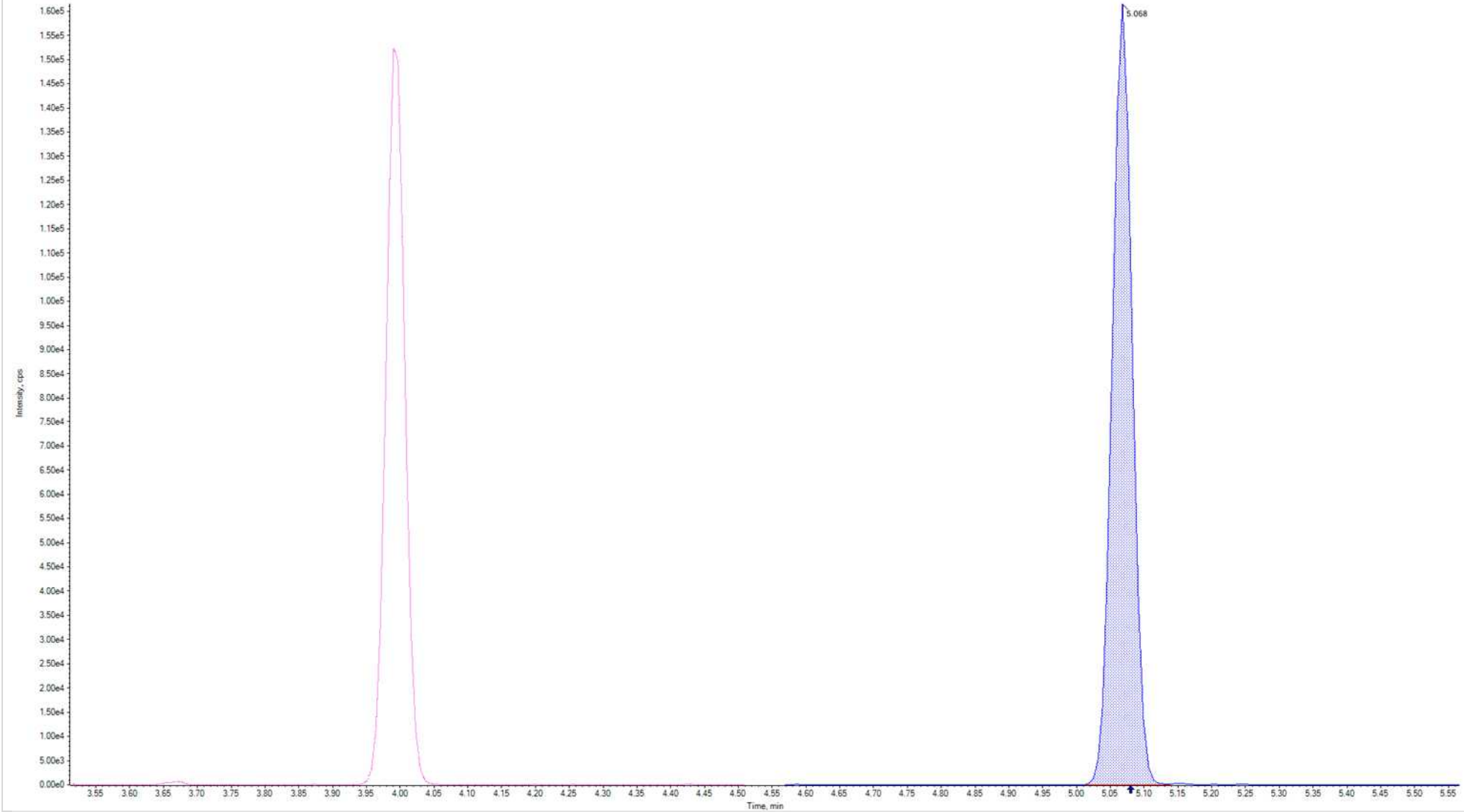
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Alpha Analytical LLC
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9Cl-PF3ONS_2
Sample: WG2038443-2R S/N:1698.7 Points Across peak:24



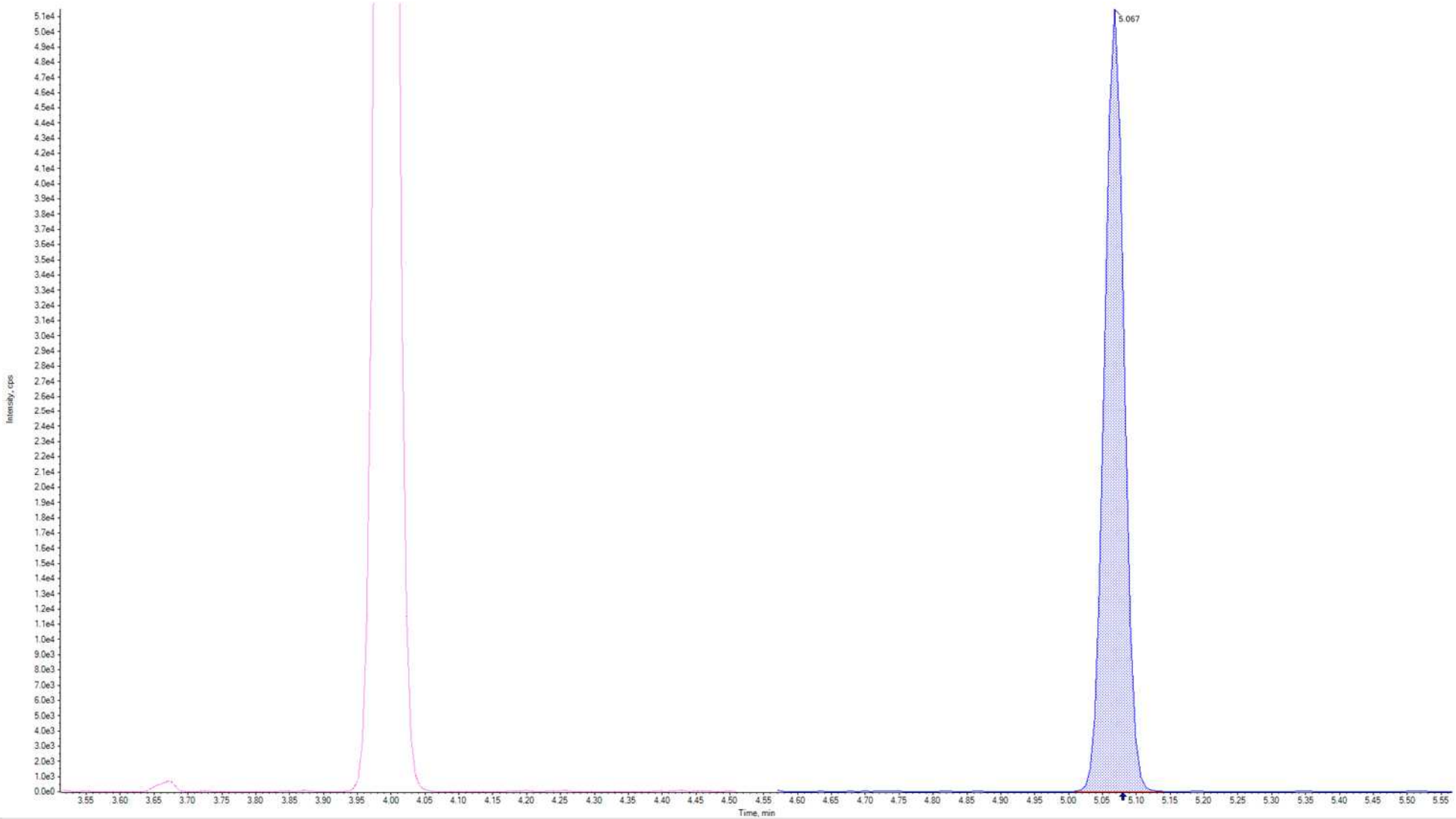
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Alpha Analytical LLC
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11Cl-PF3OUdS
Sample: WG2038443-2R S/N:7691.5 Points Across peak:20



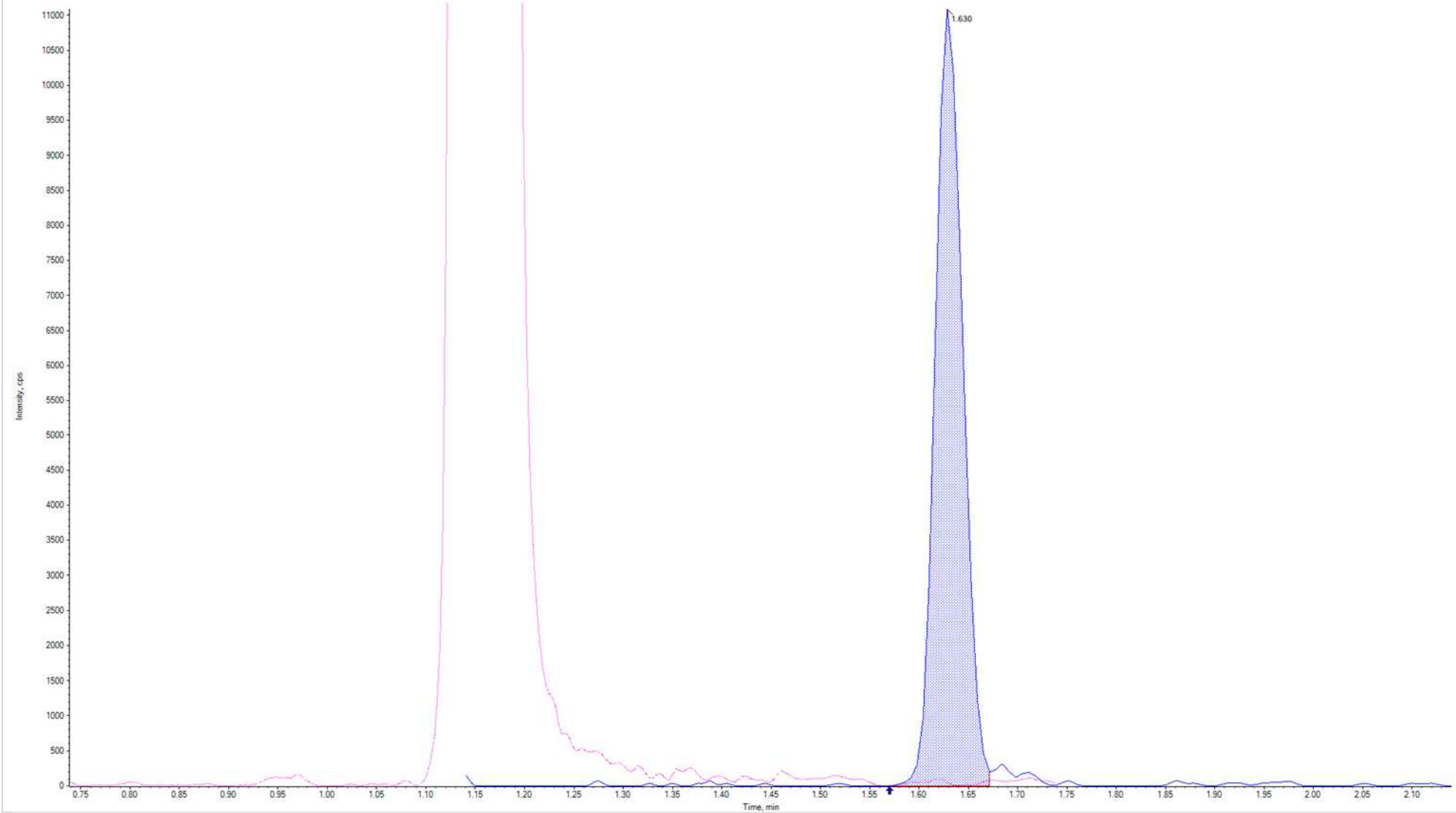
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11Cl-PF3OUdS_2
Sample: WG2038443-2R S/N:2452.0 Points Across peak:23



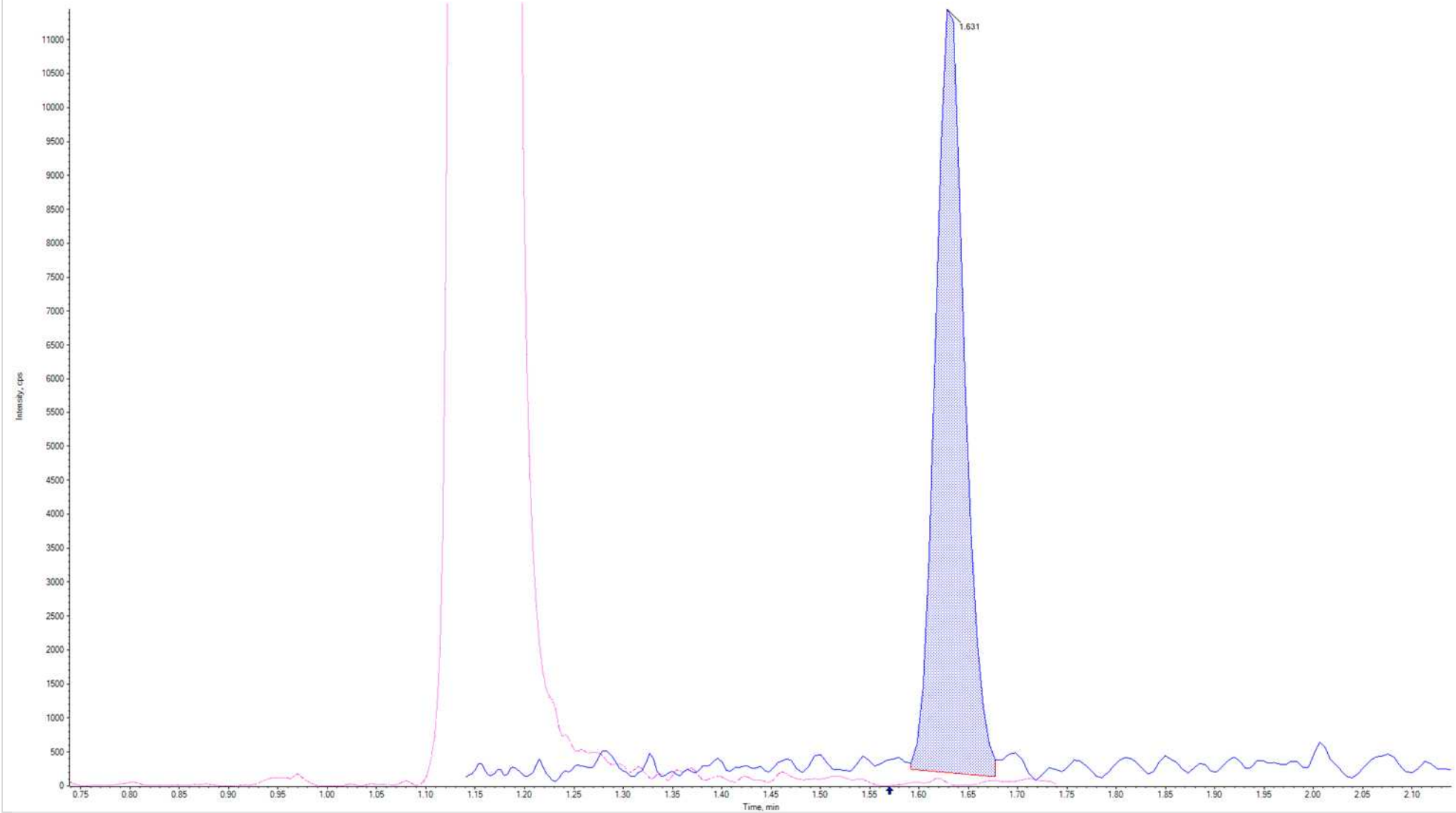
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Alpha Analytical LLC
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3:3FTCA
Sample: WG2038443-2R S/N:277.9 Points Across peak:21



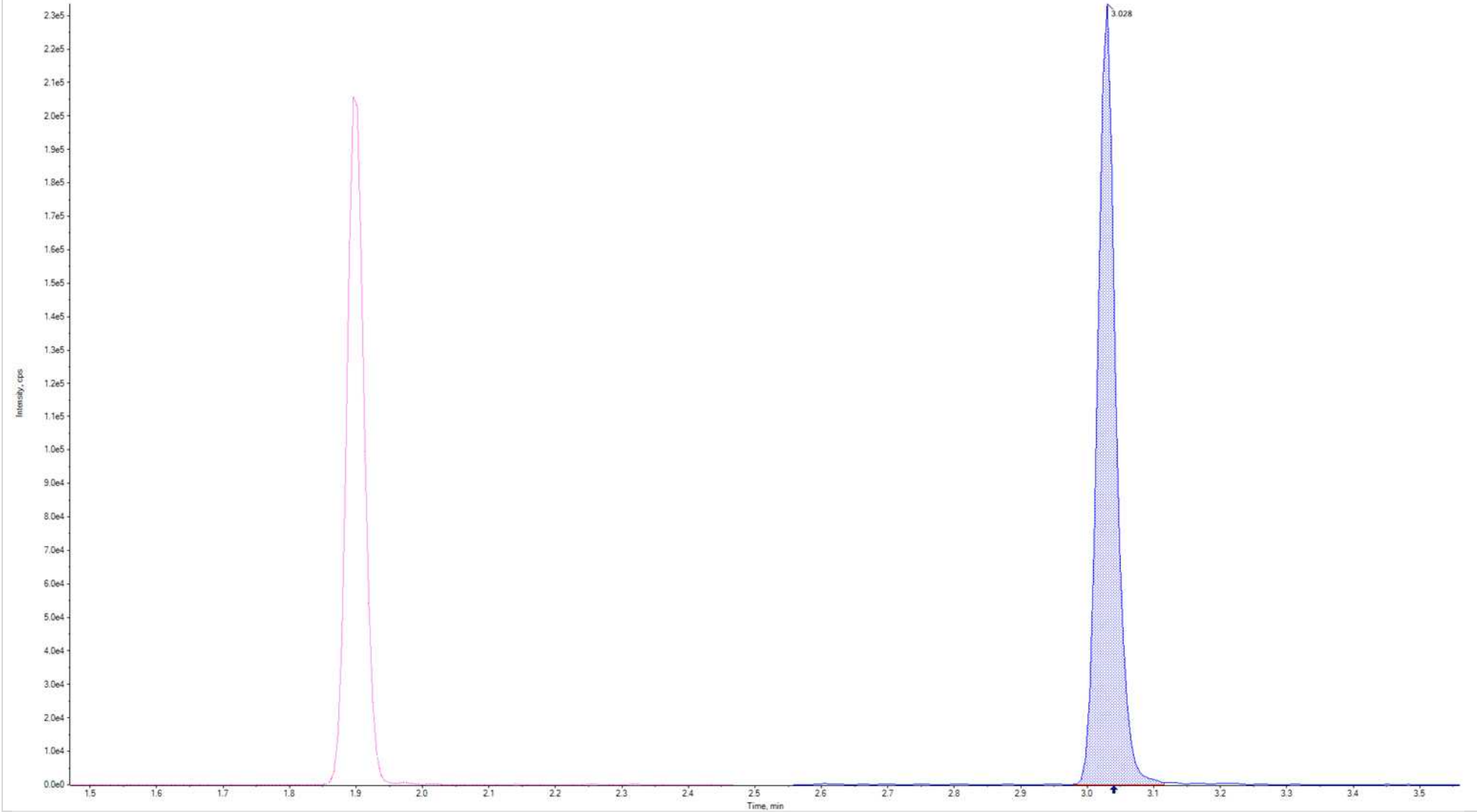
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3:3FTCA_2
Sample: WG2038443-2R S/N:282.1 Points Across peak:15



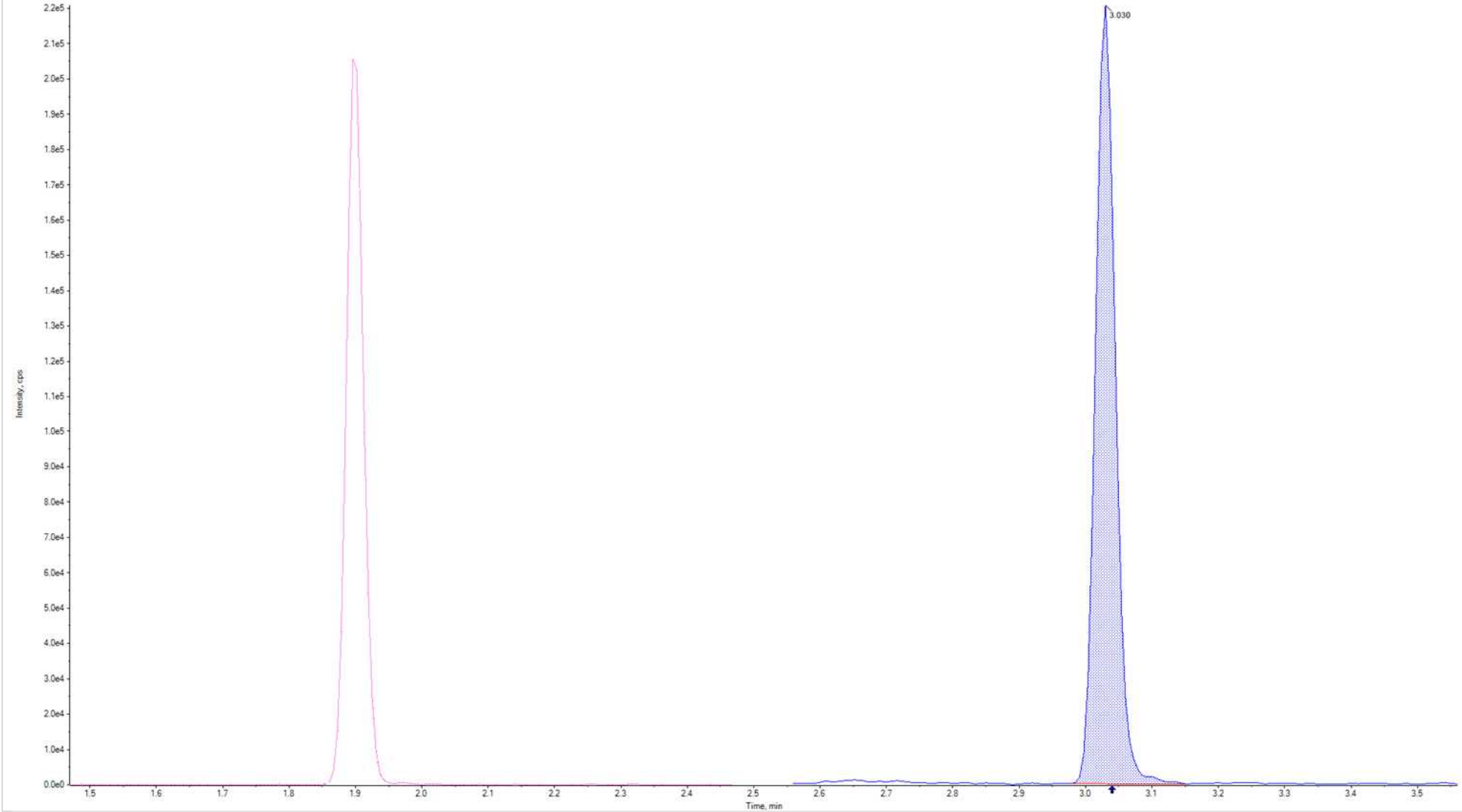
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Alpha Analytical LLC
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5:3FTCA
Sample: WG2038443-2R S/N:5266.0 Points Across peak:24



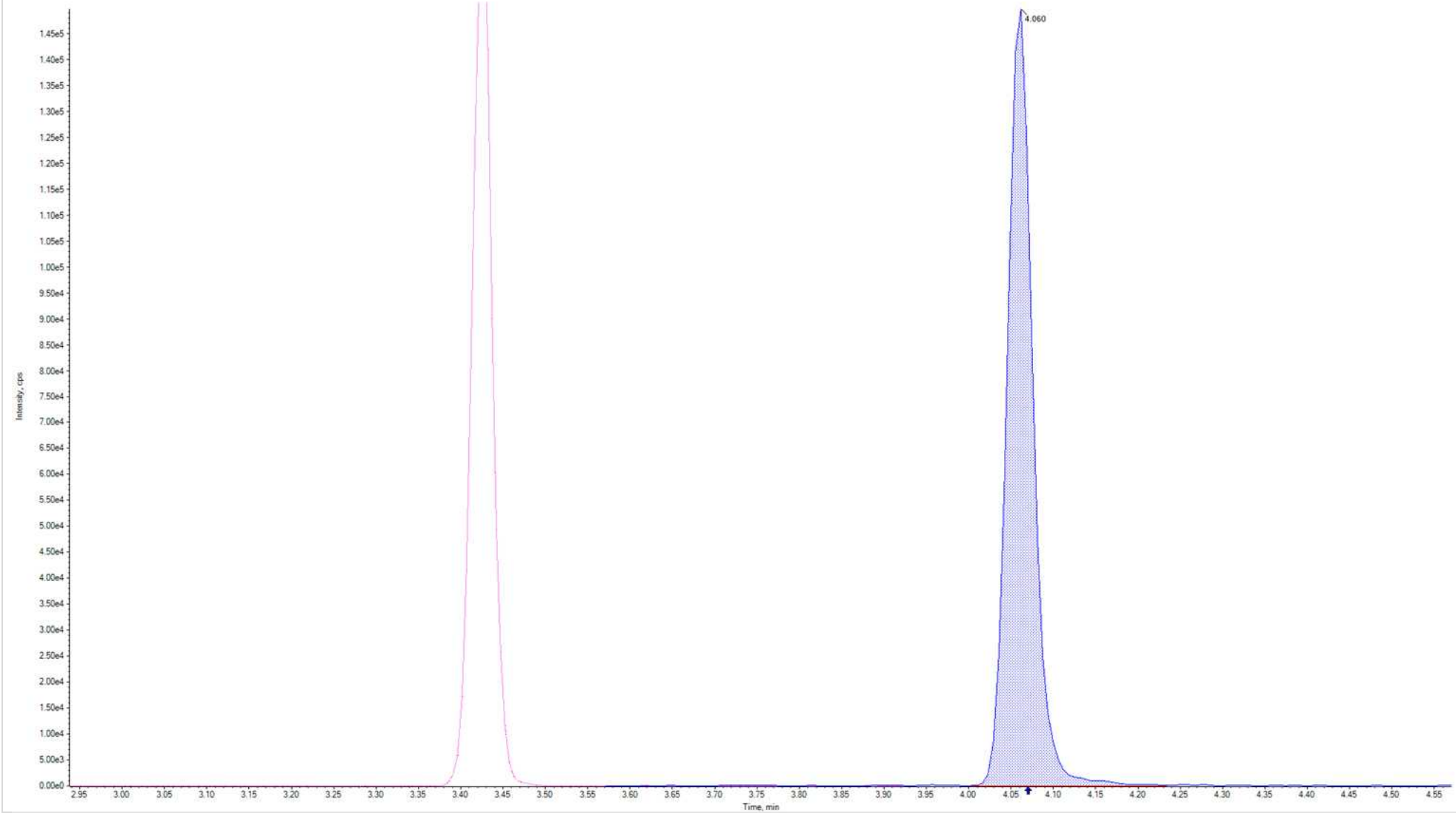
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Alpha Analytical LLC
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5:3FTCA_2
Sample: WG2038443-2R S/N:1945.0 Points Across peak:30



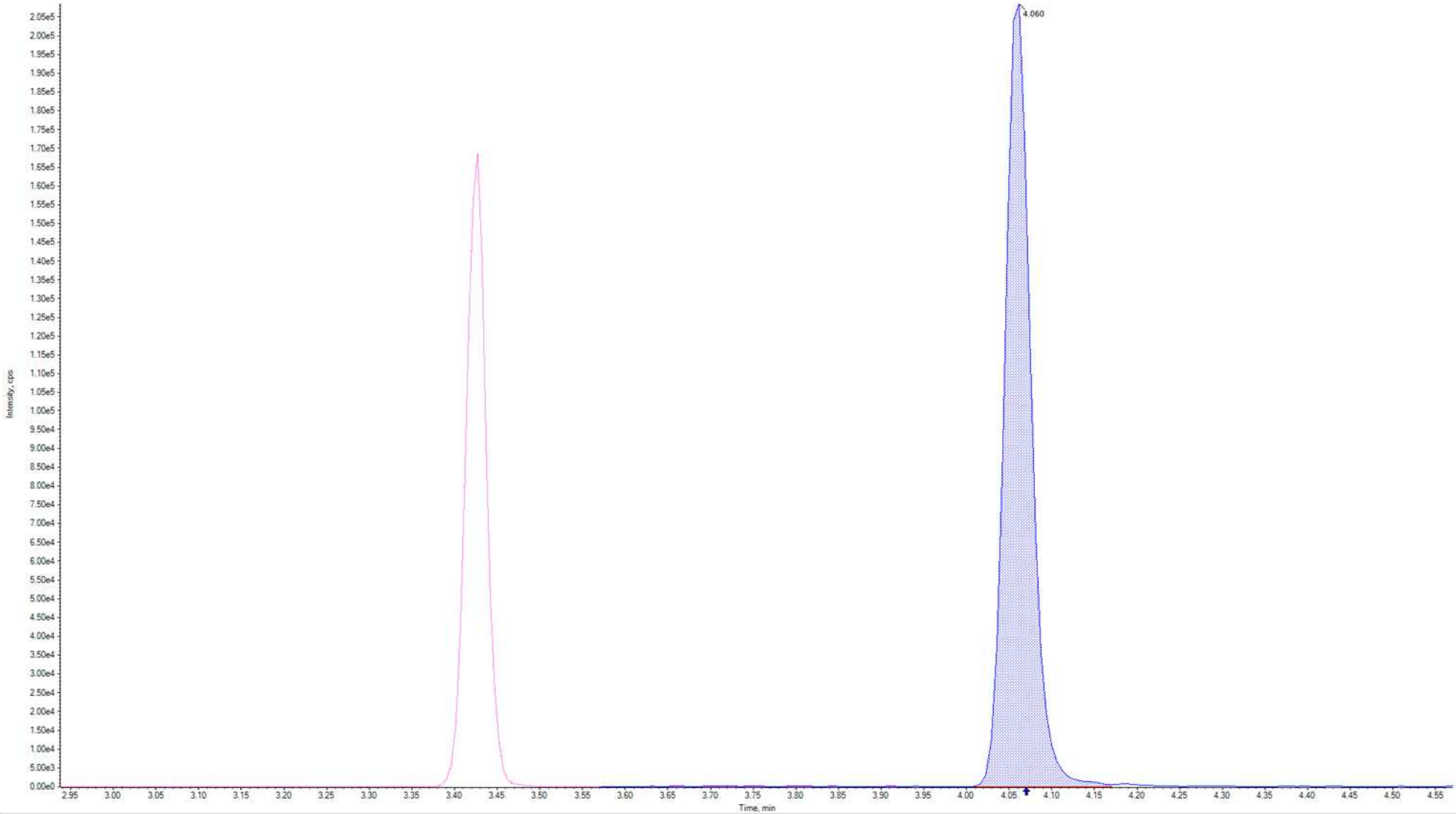
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7:3FTCA
Sample: WG2038443-2R S/N:4128.0 Points Across peak:38



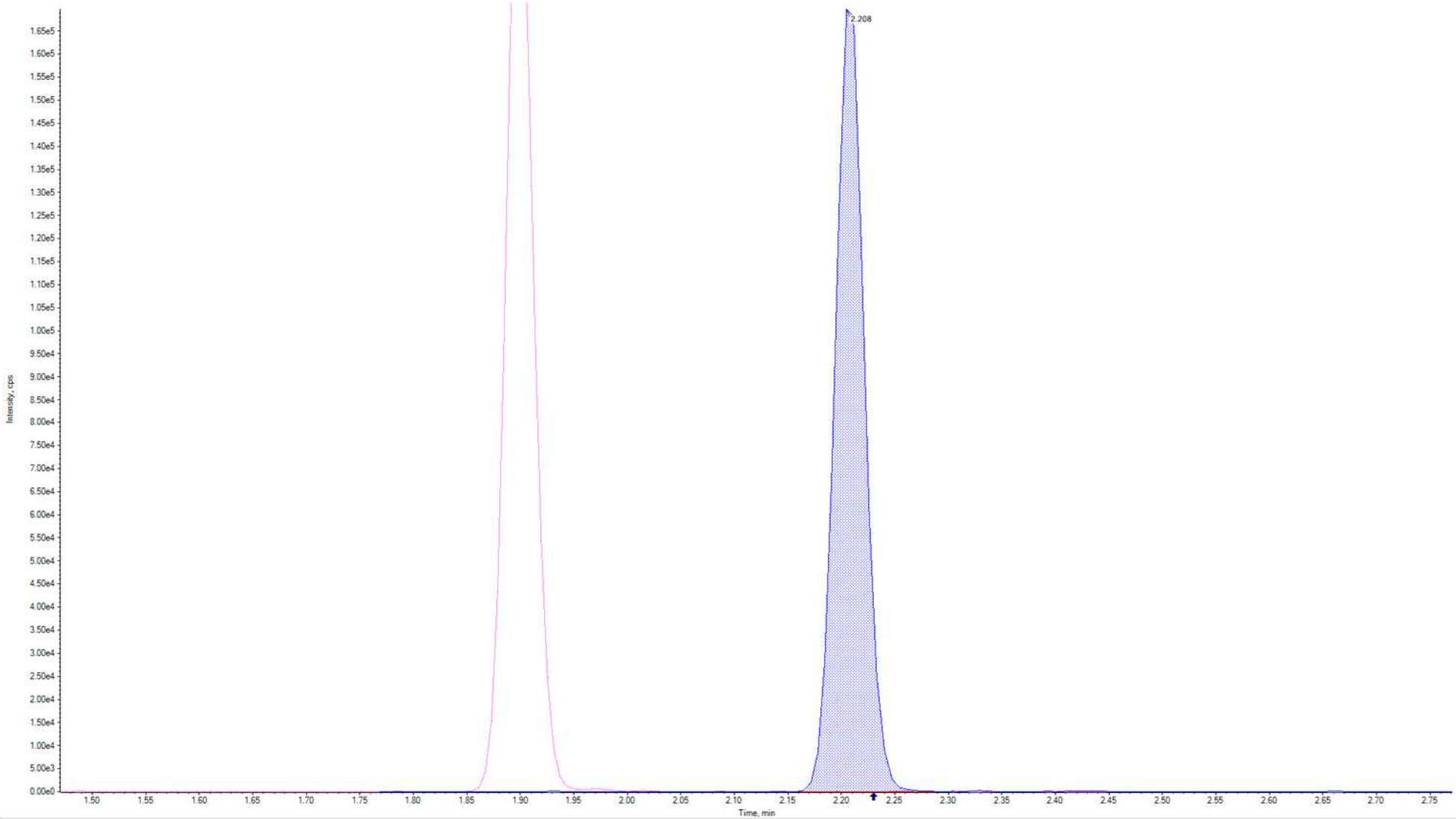
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7:3FTCA_2
Sample: WG2038443-2R S/N:2297.2 Points Across peak:28



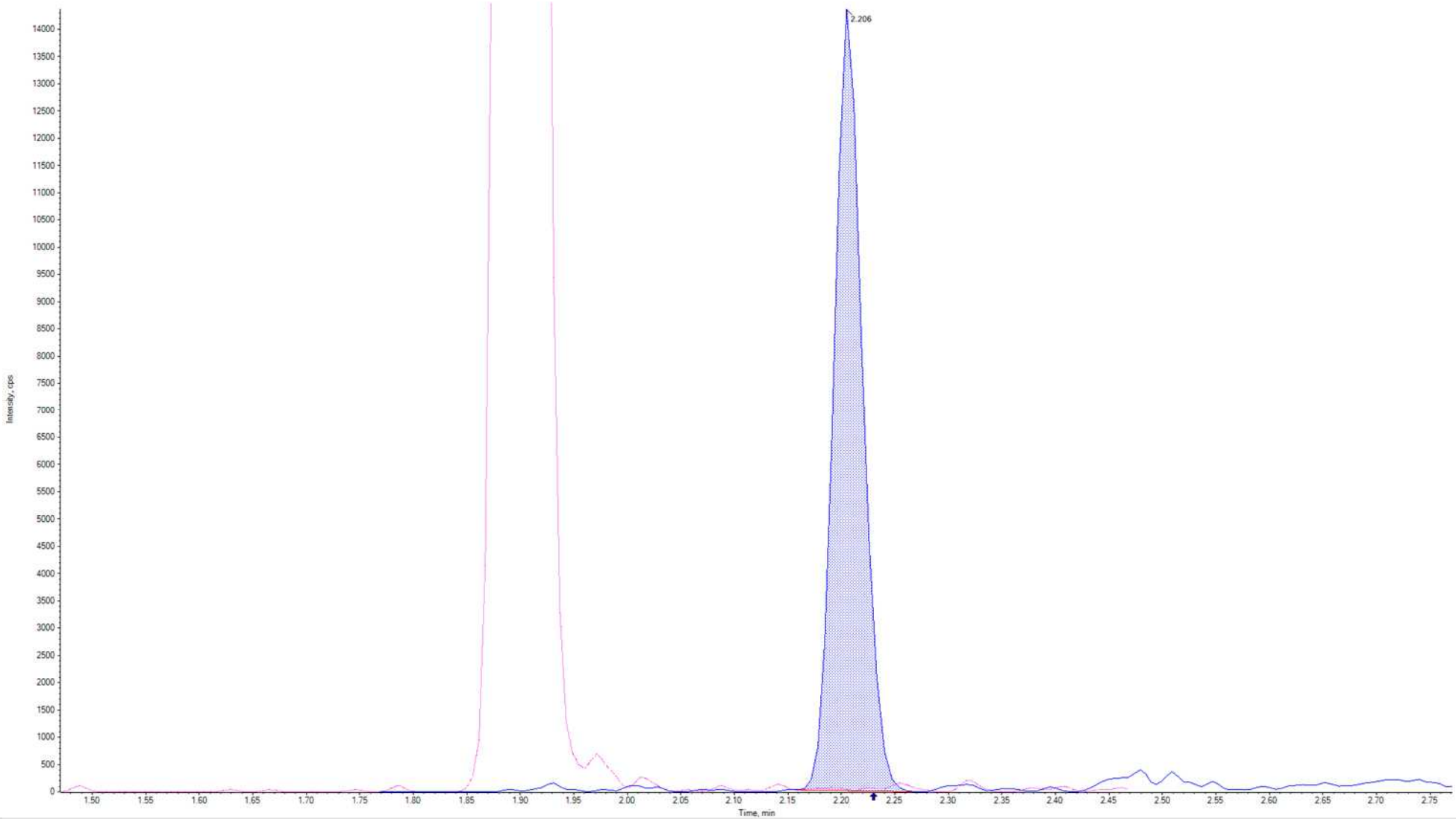
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PFEESA
Sample: WG2038443-2R S/N:3829.5 Points Across peak:23



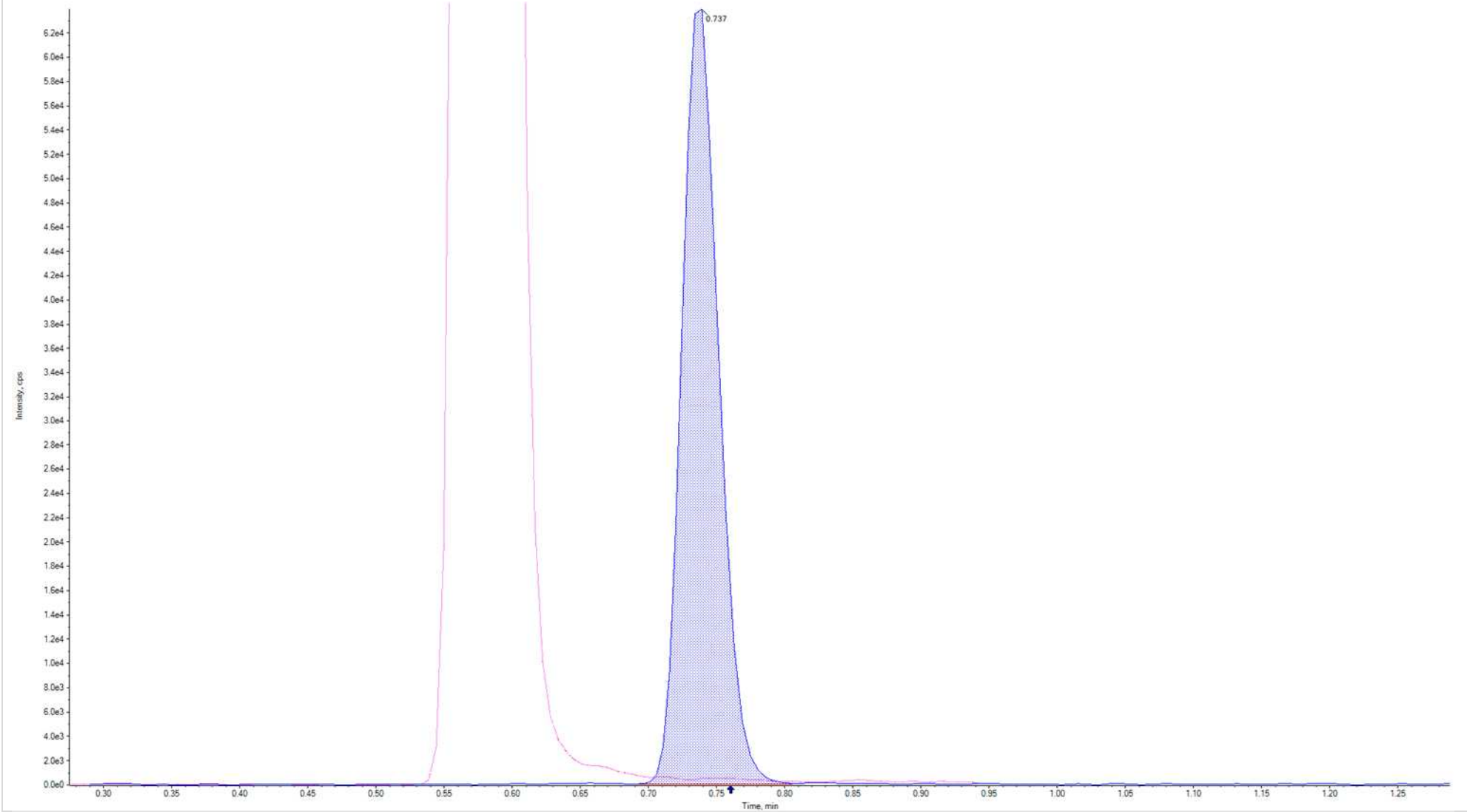
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Alpha Analytical LLC
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PFEESA_2
Sample: WG2038443-2R S/N:323.7 Points Across peak:17



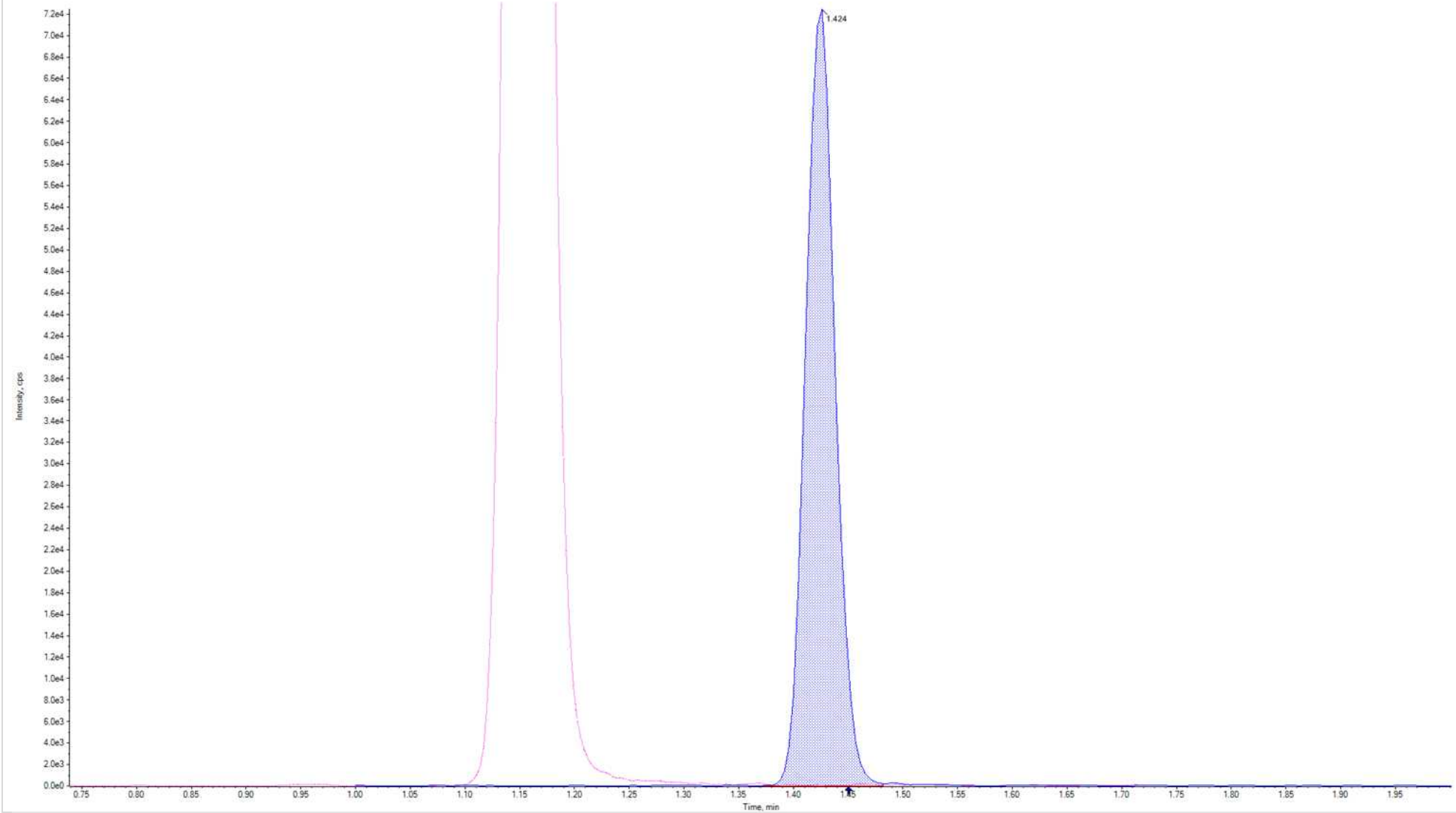
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PFMPA
Sample: WG2038443-2R S/N:3754.9 Points Across peak:23



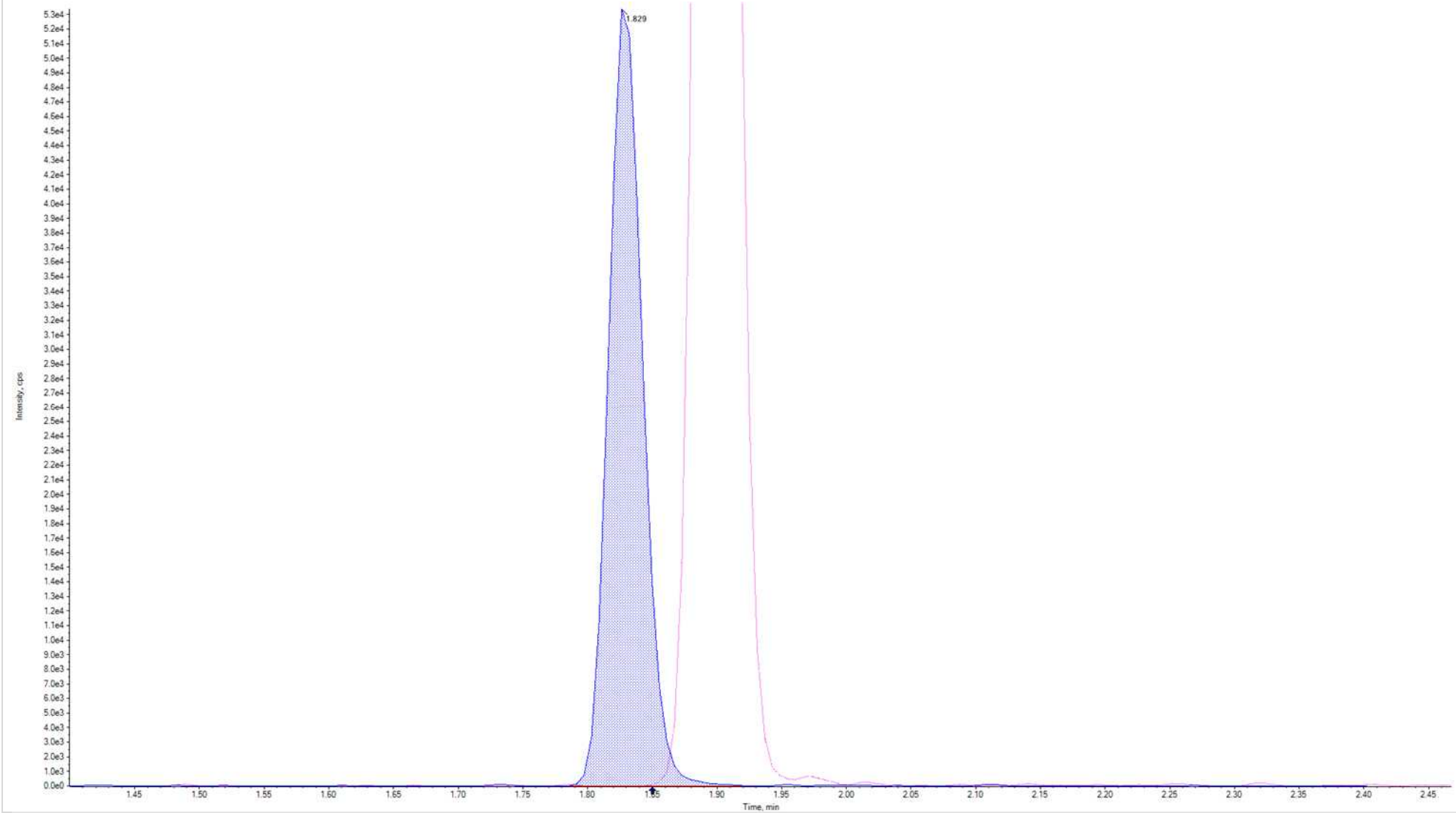
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Alpha Analytical LLC
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PFMBA
Sample: WG2038443-2R S/N:4177.2 Points Across peak:28



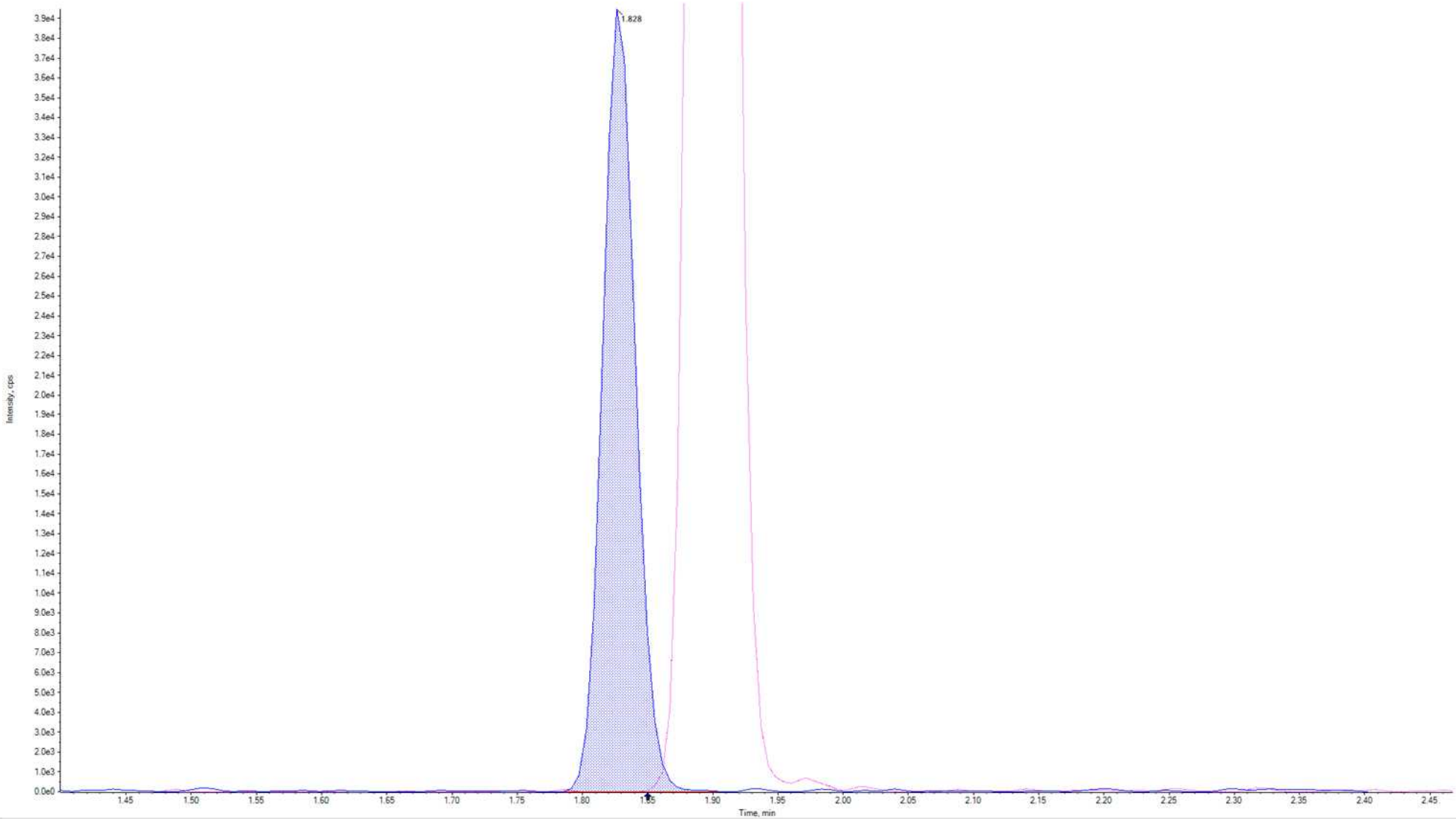
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Alpha Analytical LLC
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NFDHA
Sample: WG2038443-2R S/N:1471.7 Points Across peak:29



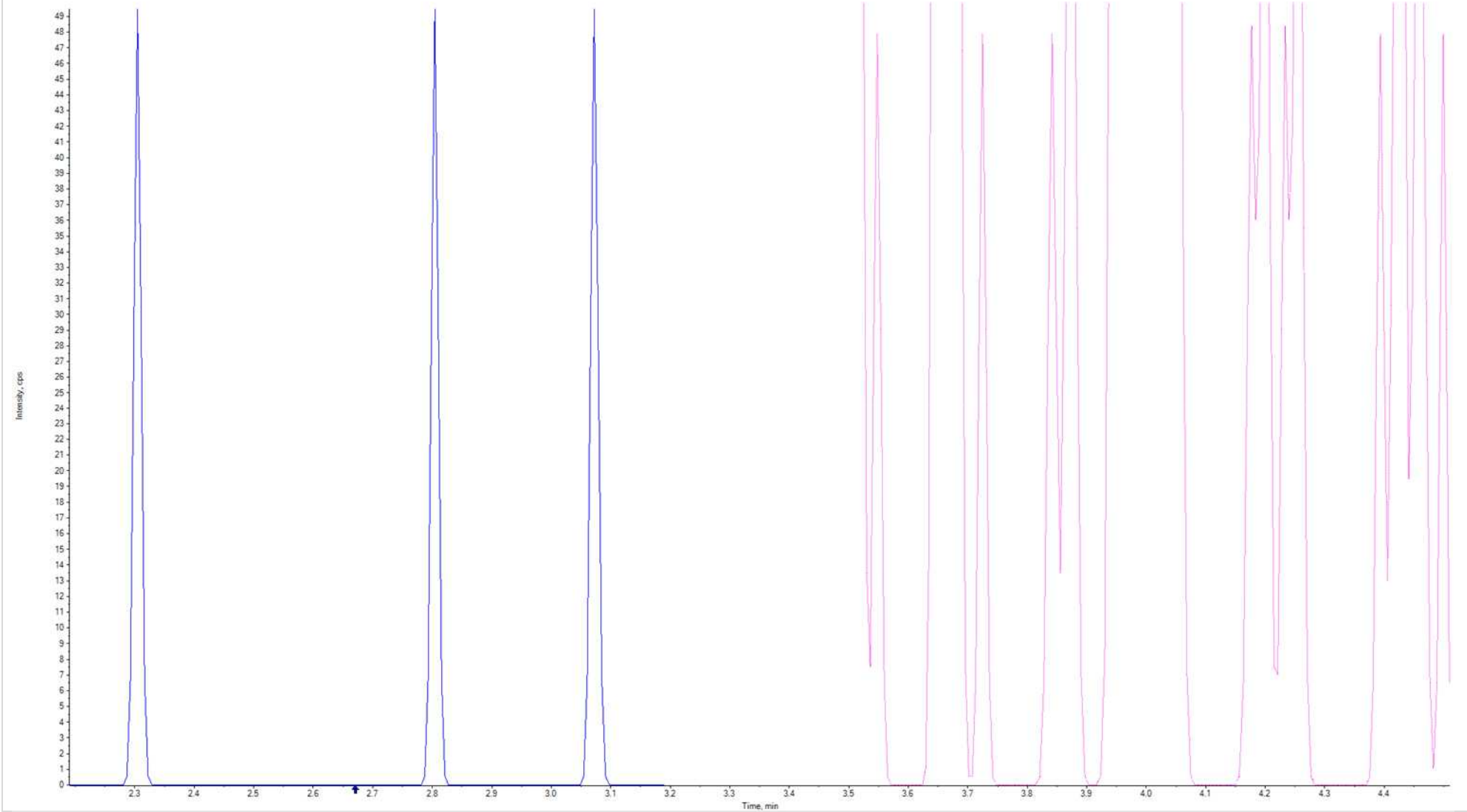
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Alpha Analytical LLC
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NFDHA_2
Sample: WG2038443-2R S/N:1088.2 Points Across peak:25



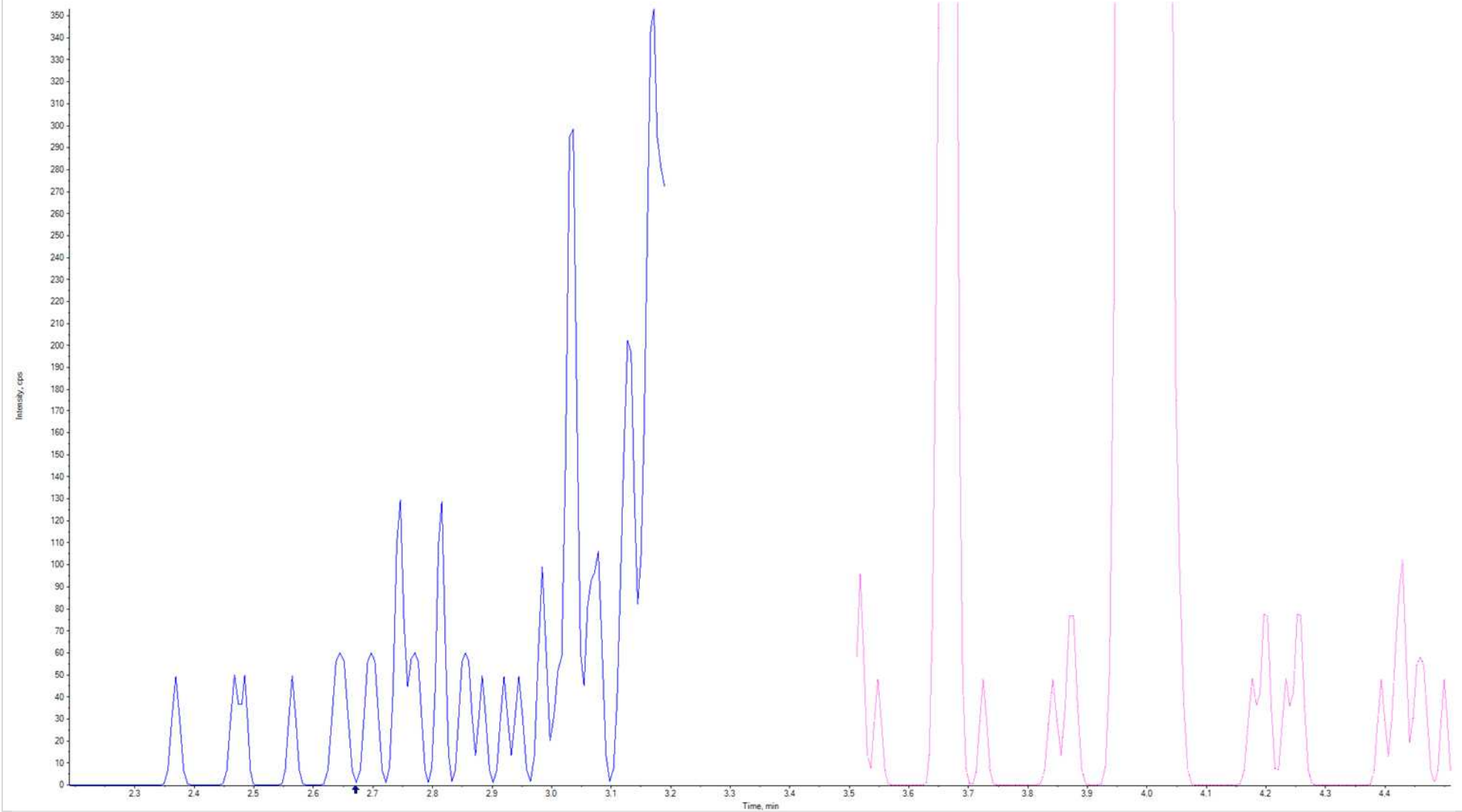
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

TDCA
Sample: WG2038443-2R S/N:N/A Points Across peak:N/A



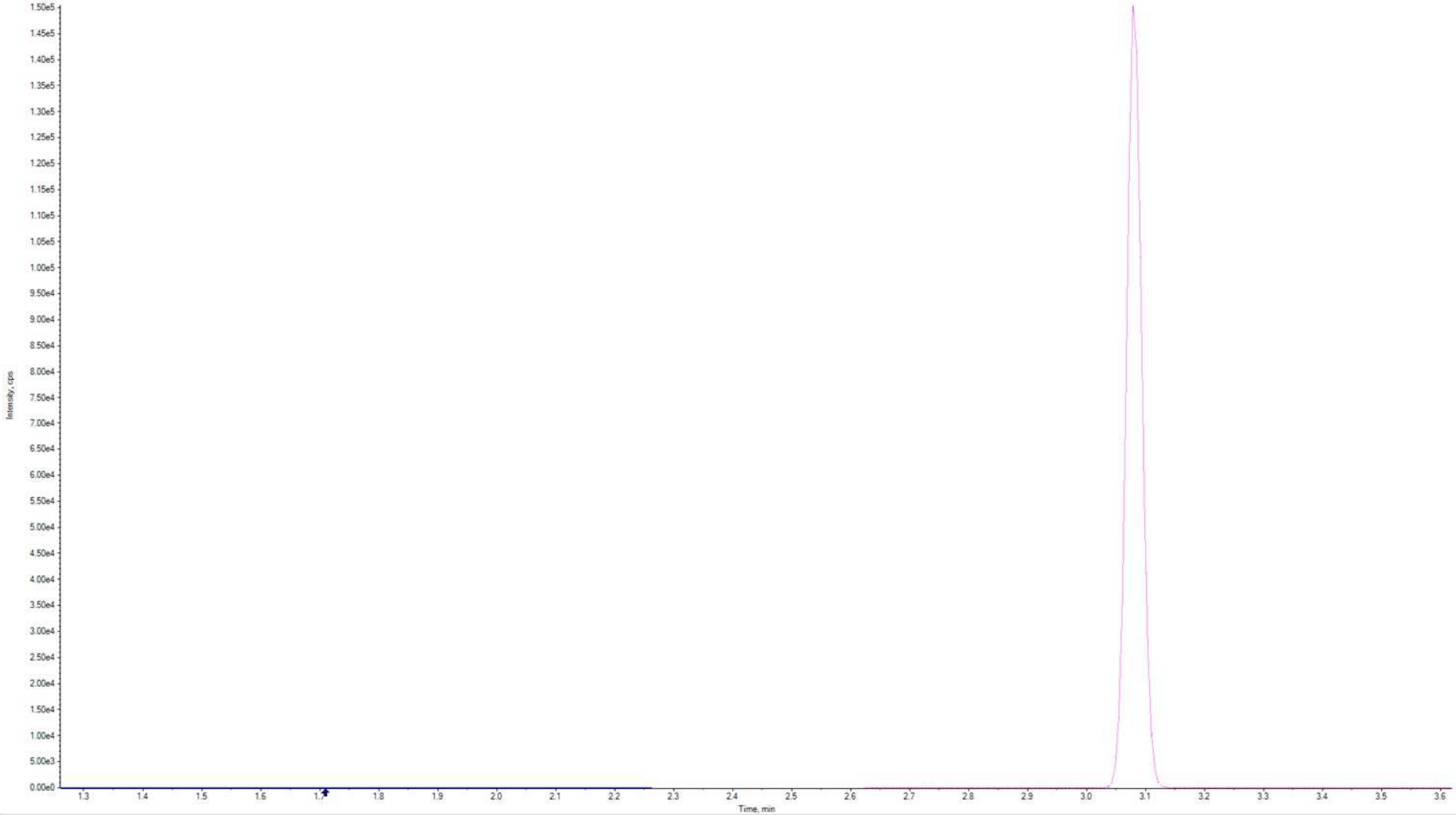
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

TDCA_2
Sample: WG2038443-2R S/N:N/A Points Across peak:N/A



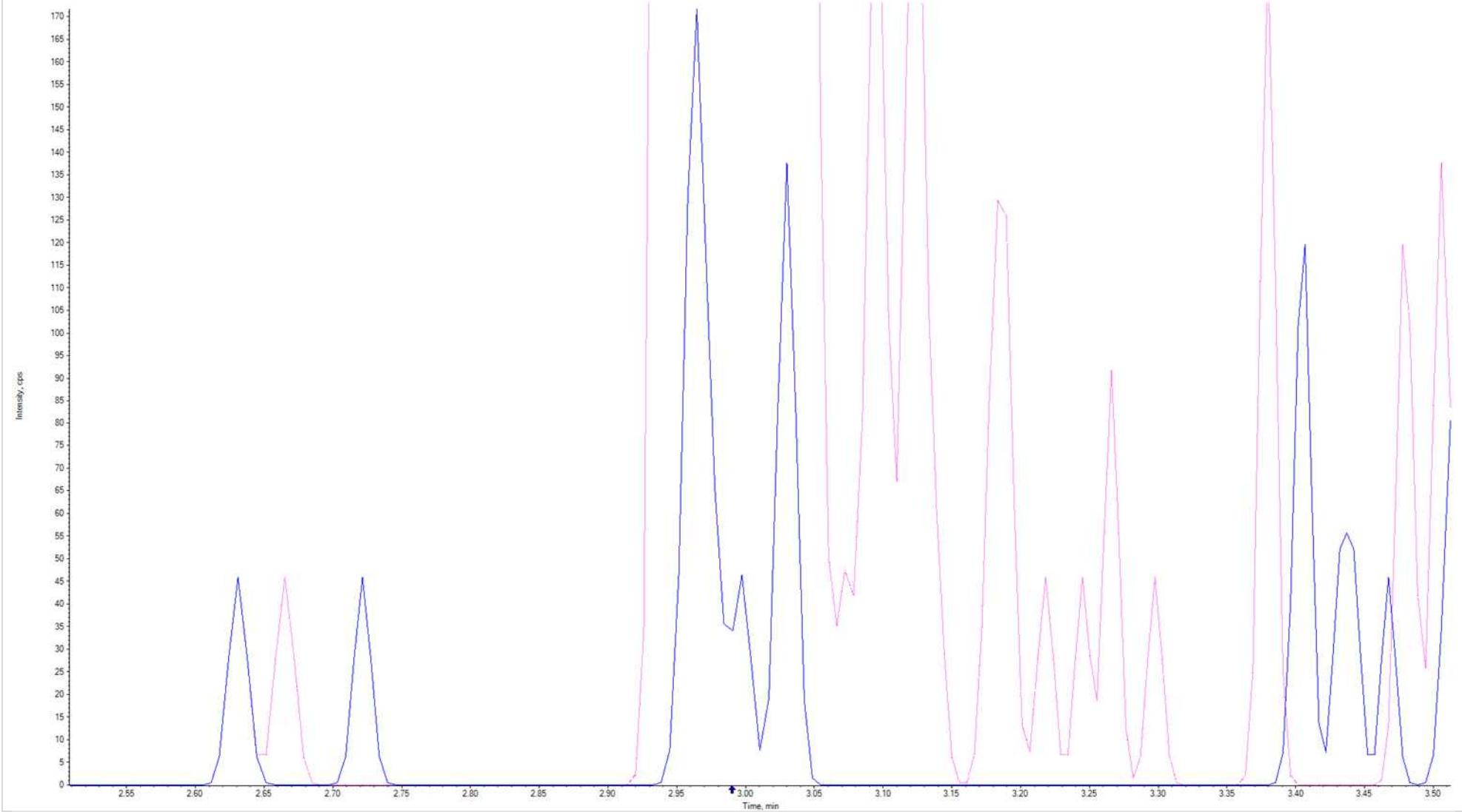
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

13C2D4-4:2FTS
Sample: WG2038443-2R S/N:N/A Points Across peak:N/A

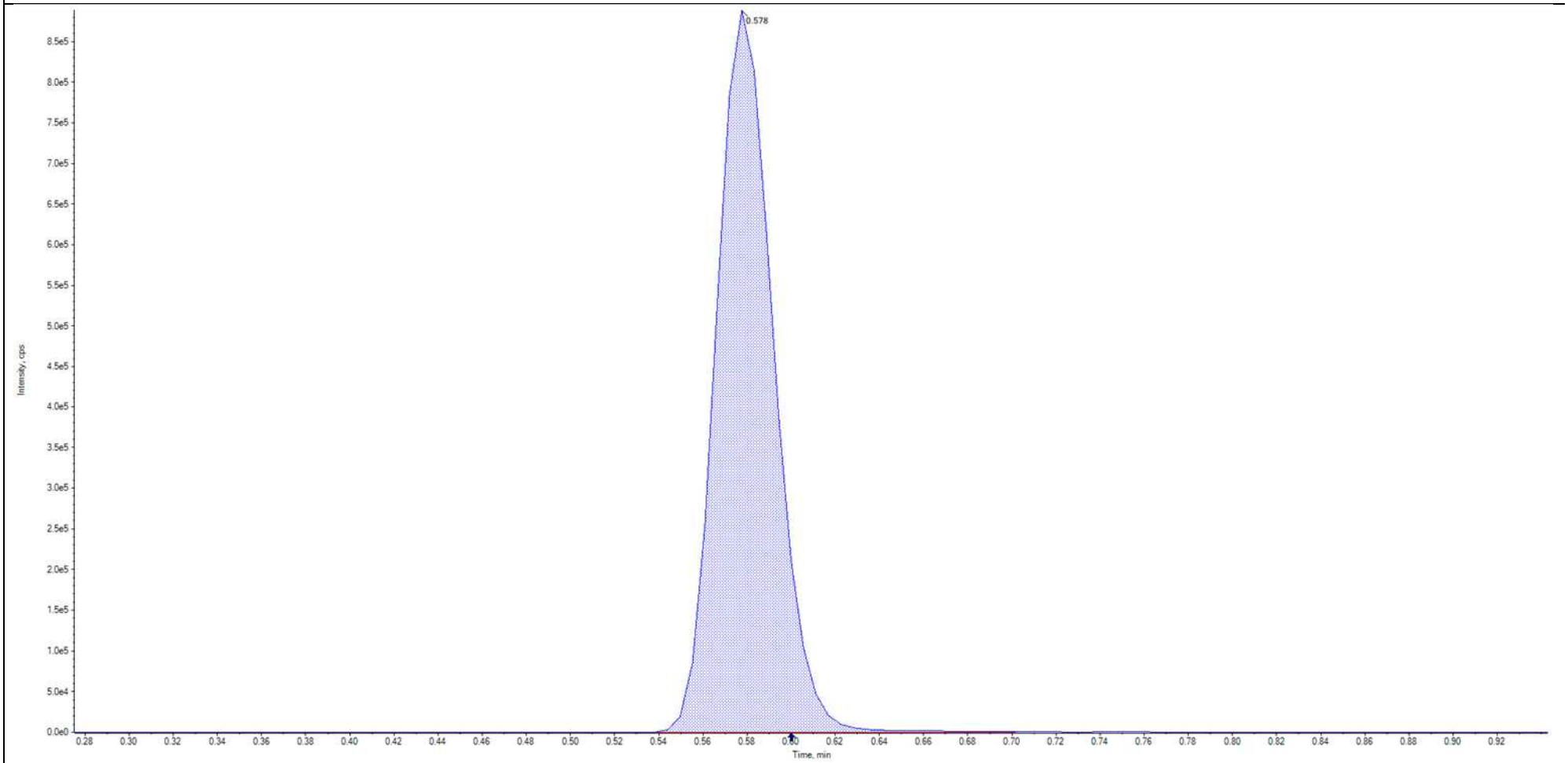


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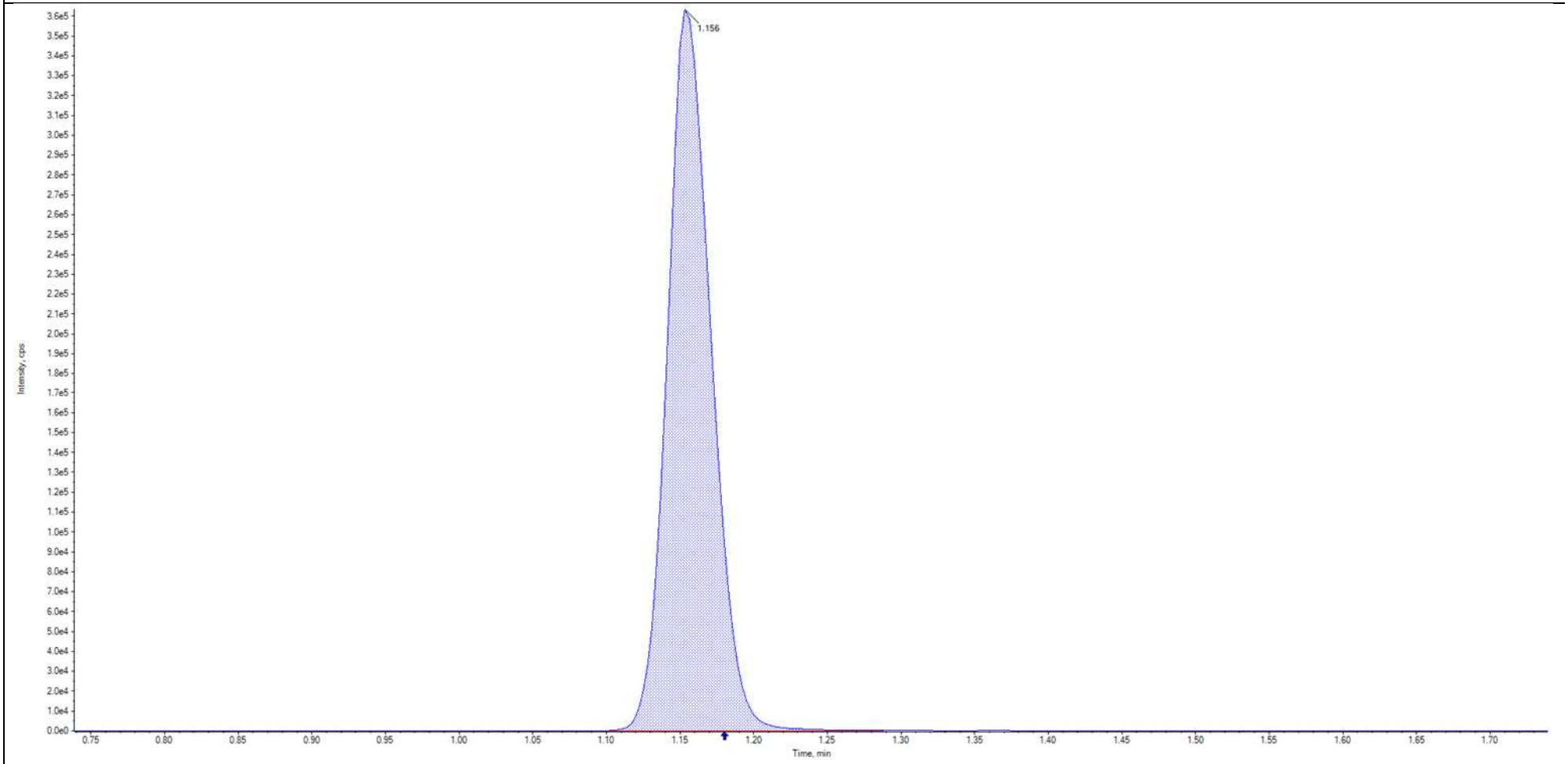
13C2-PFOA
Sample: WG2038443-2R S/N:N/A Points Across peak:N/A



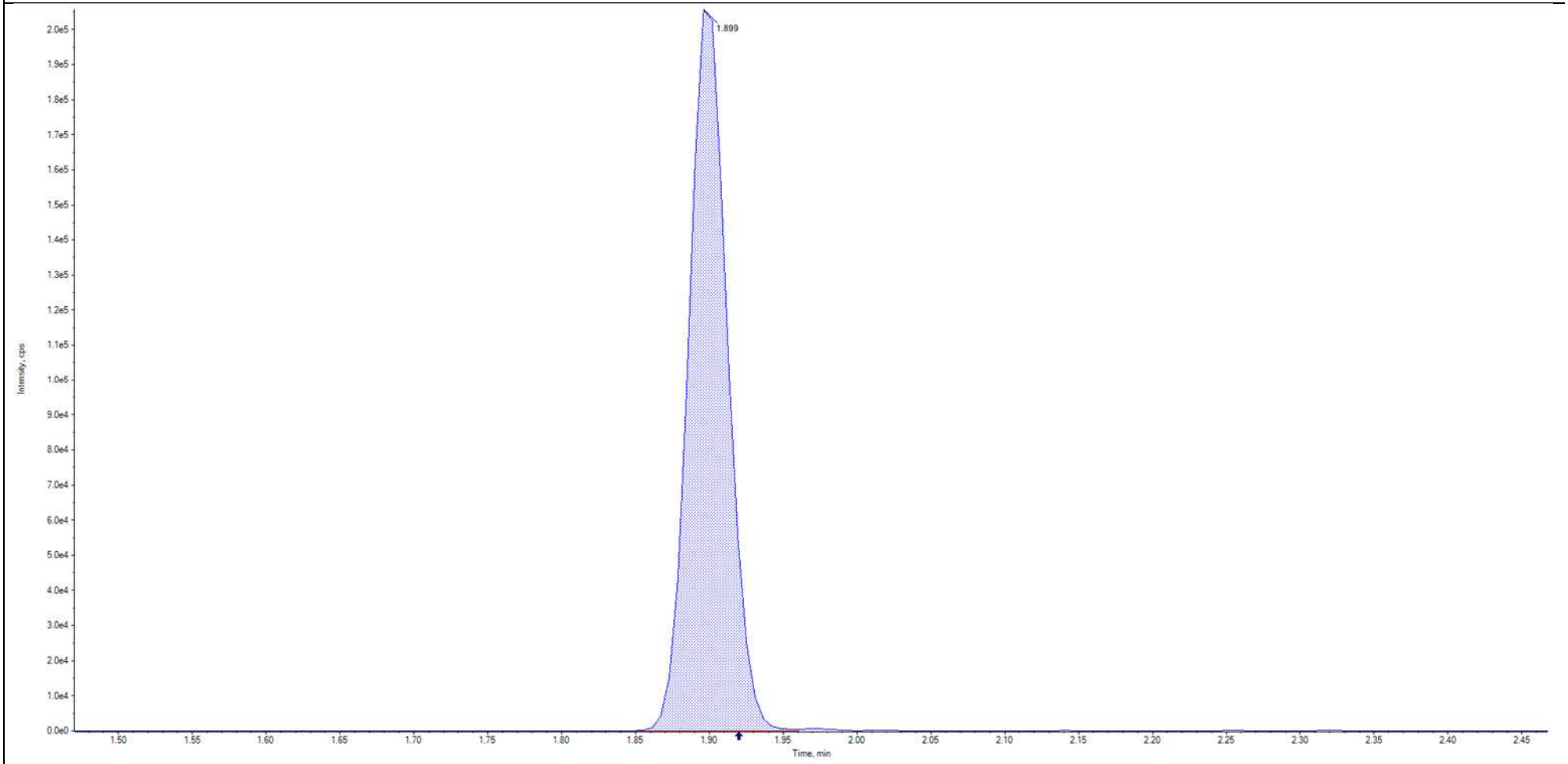
13C4-PFBA
Sample: WG2038443-2R



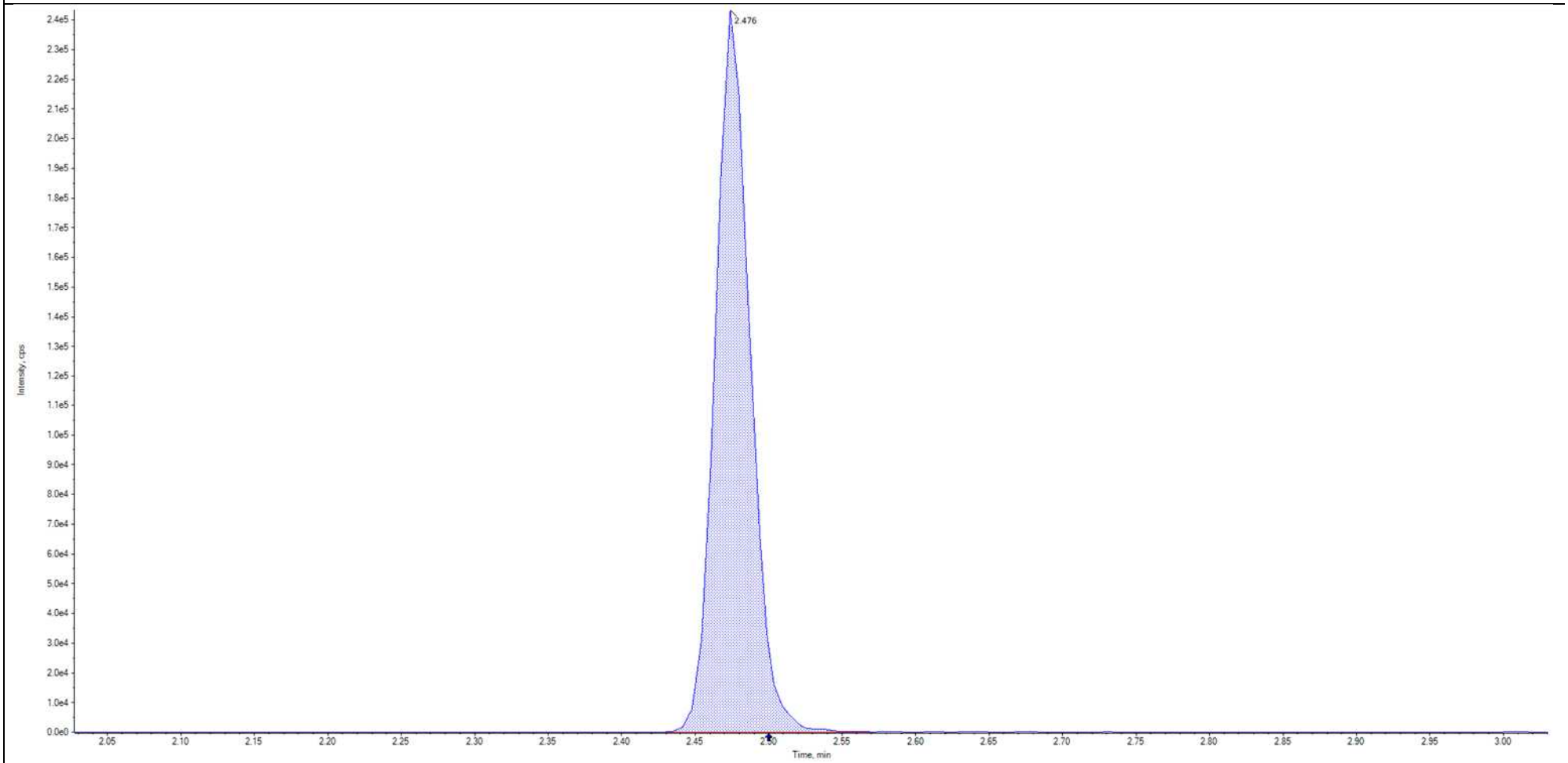
13C5-PFPeA
Sample: WG2038443-2R



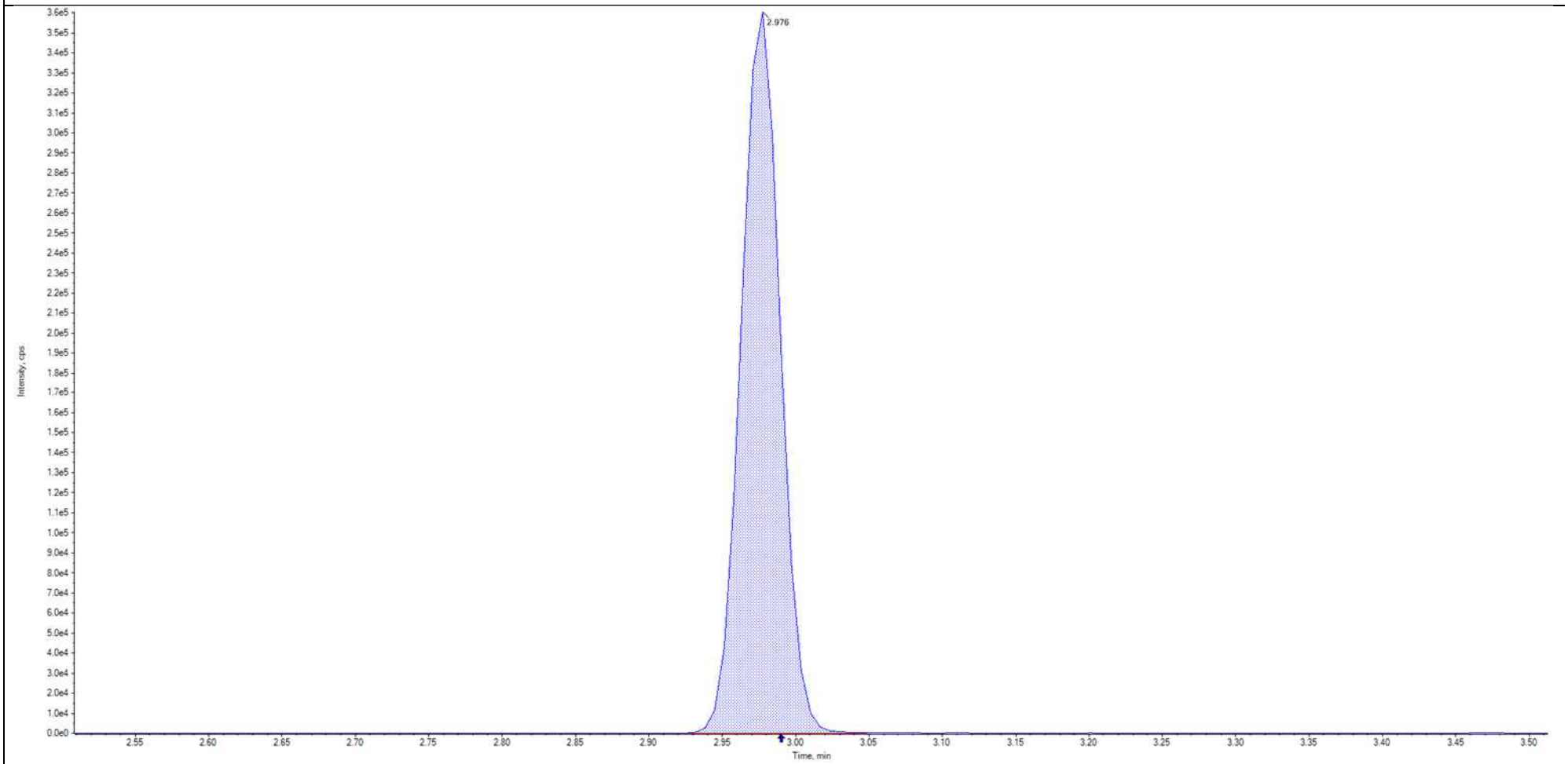
13C5-PFHxA
Sample: WG2038443-2R



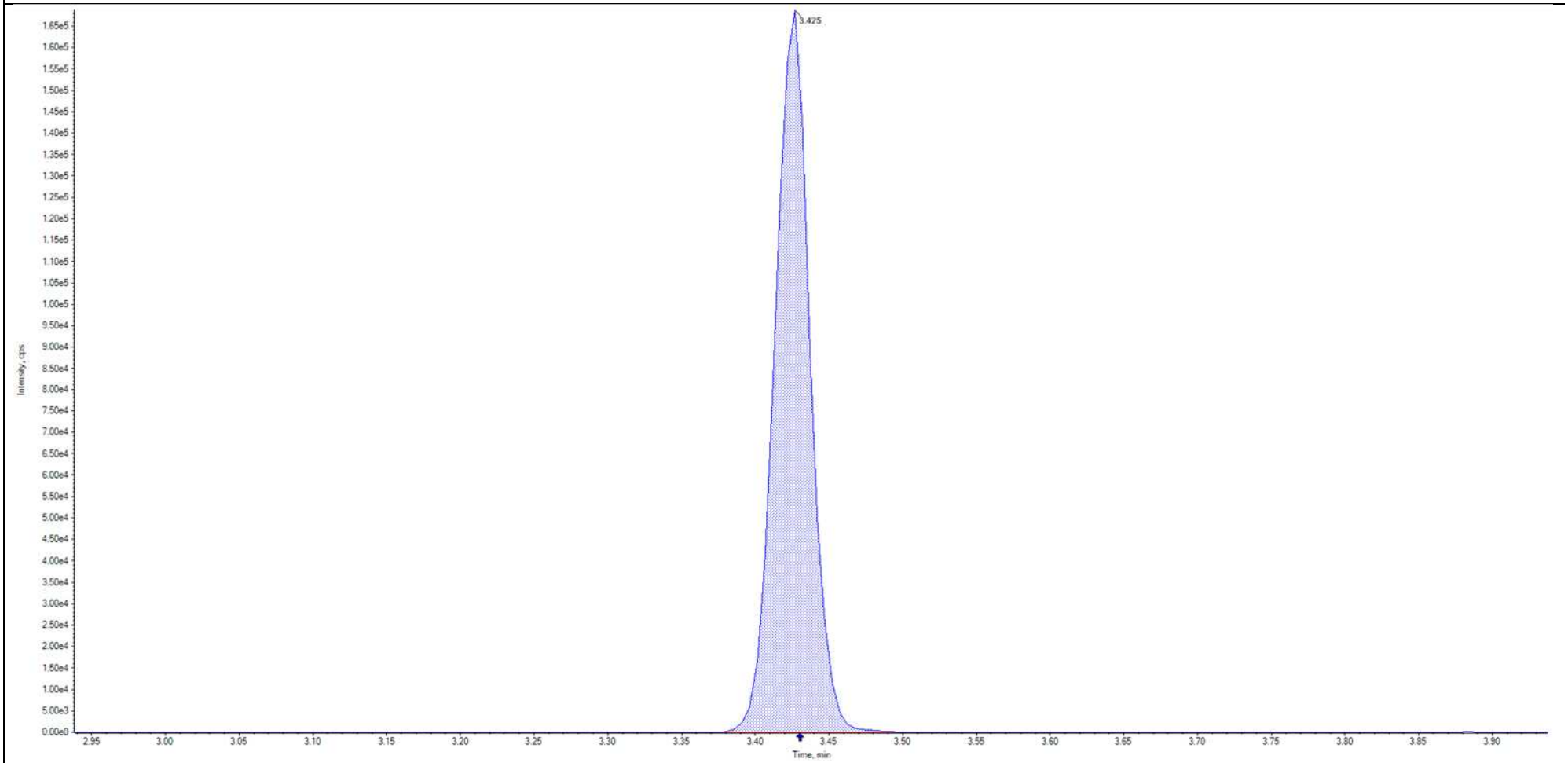
13C4-PFHpA
Sample: WG2038443-2R



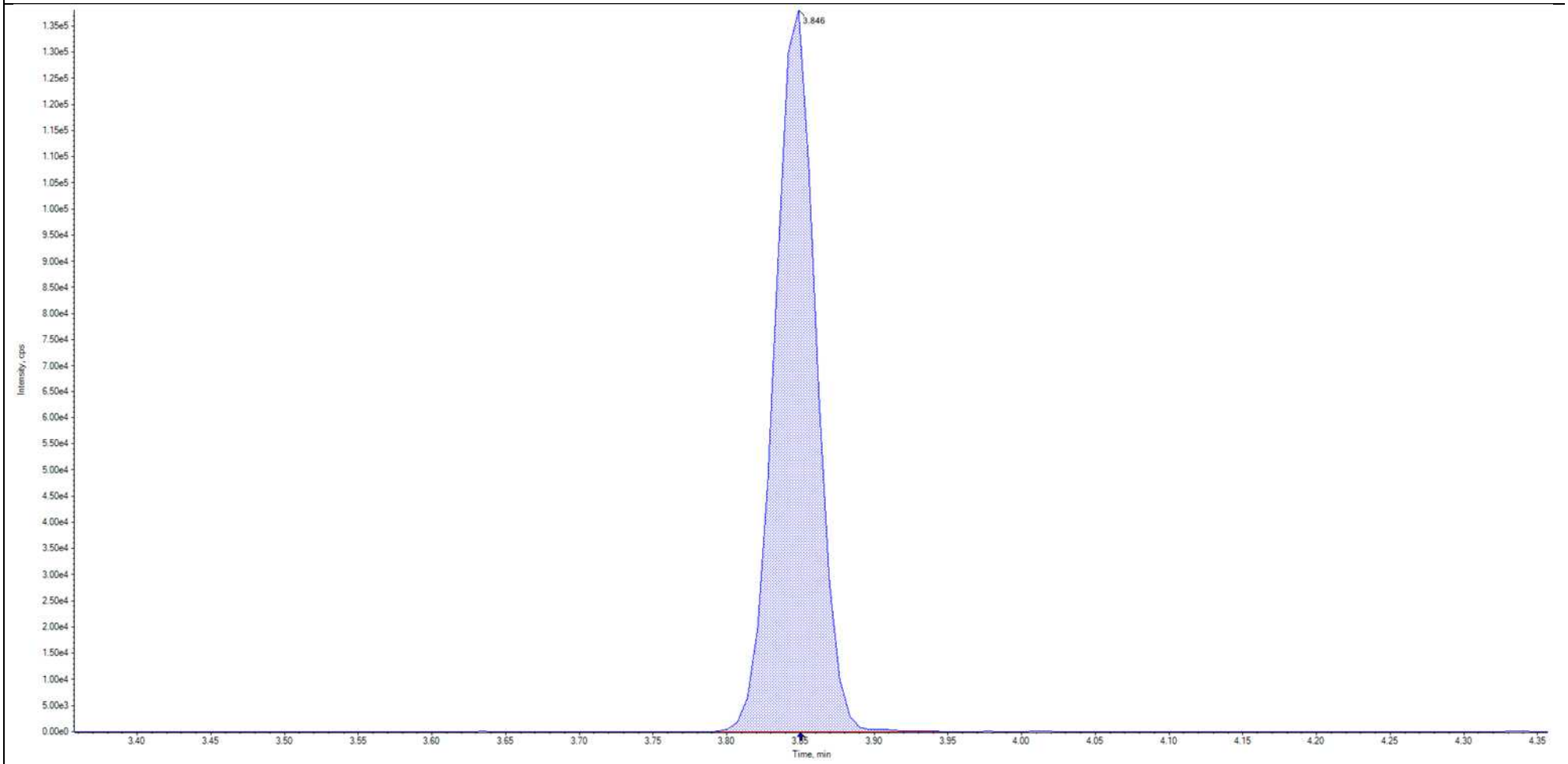
13C8-PFOA
Sample: WG2038443-2R



13C9-PFNA
Sample: WG2038443-2R

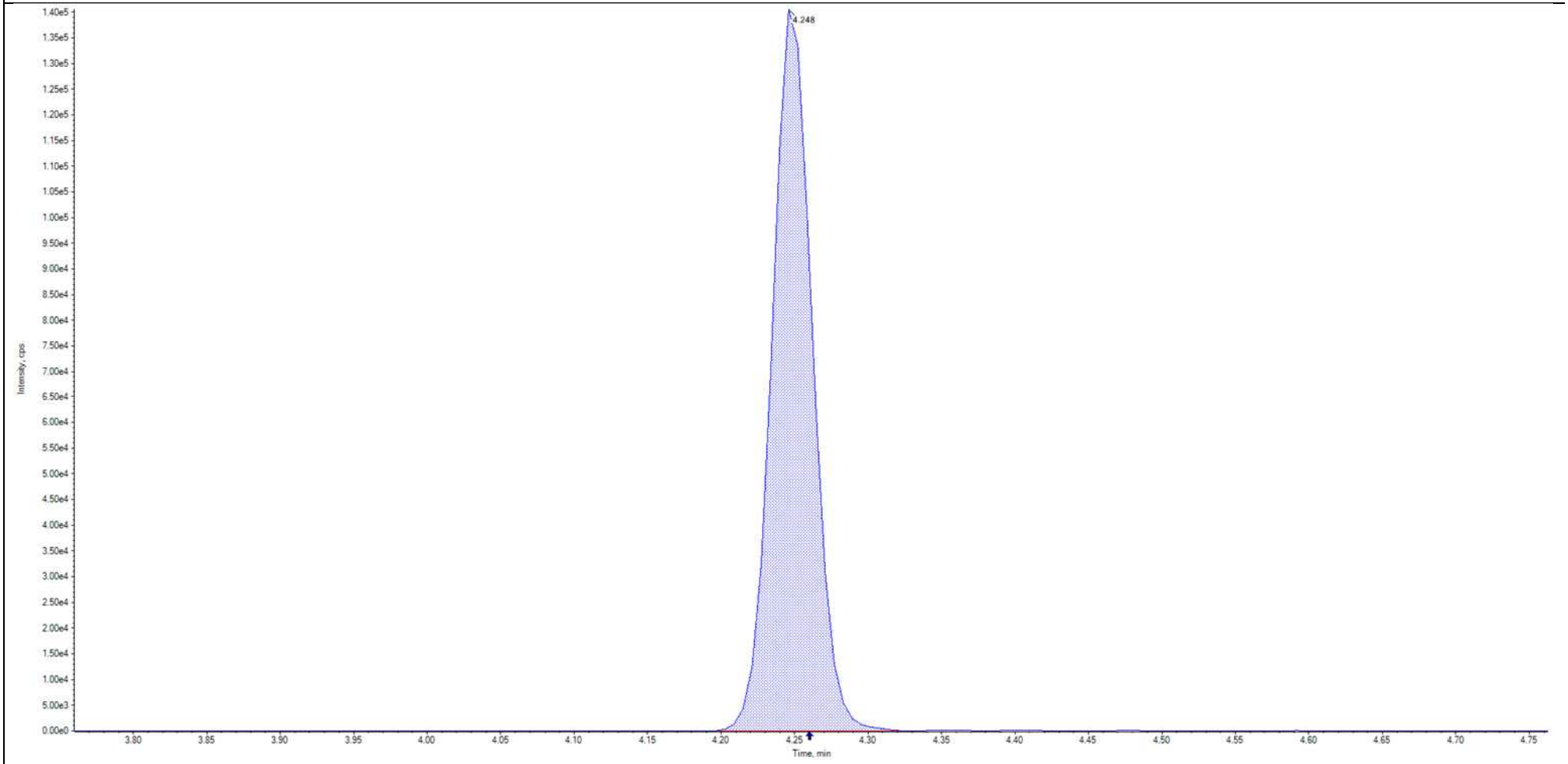


13C6-PFDA
Sample: WG2038443-2R

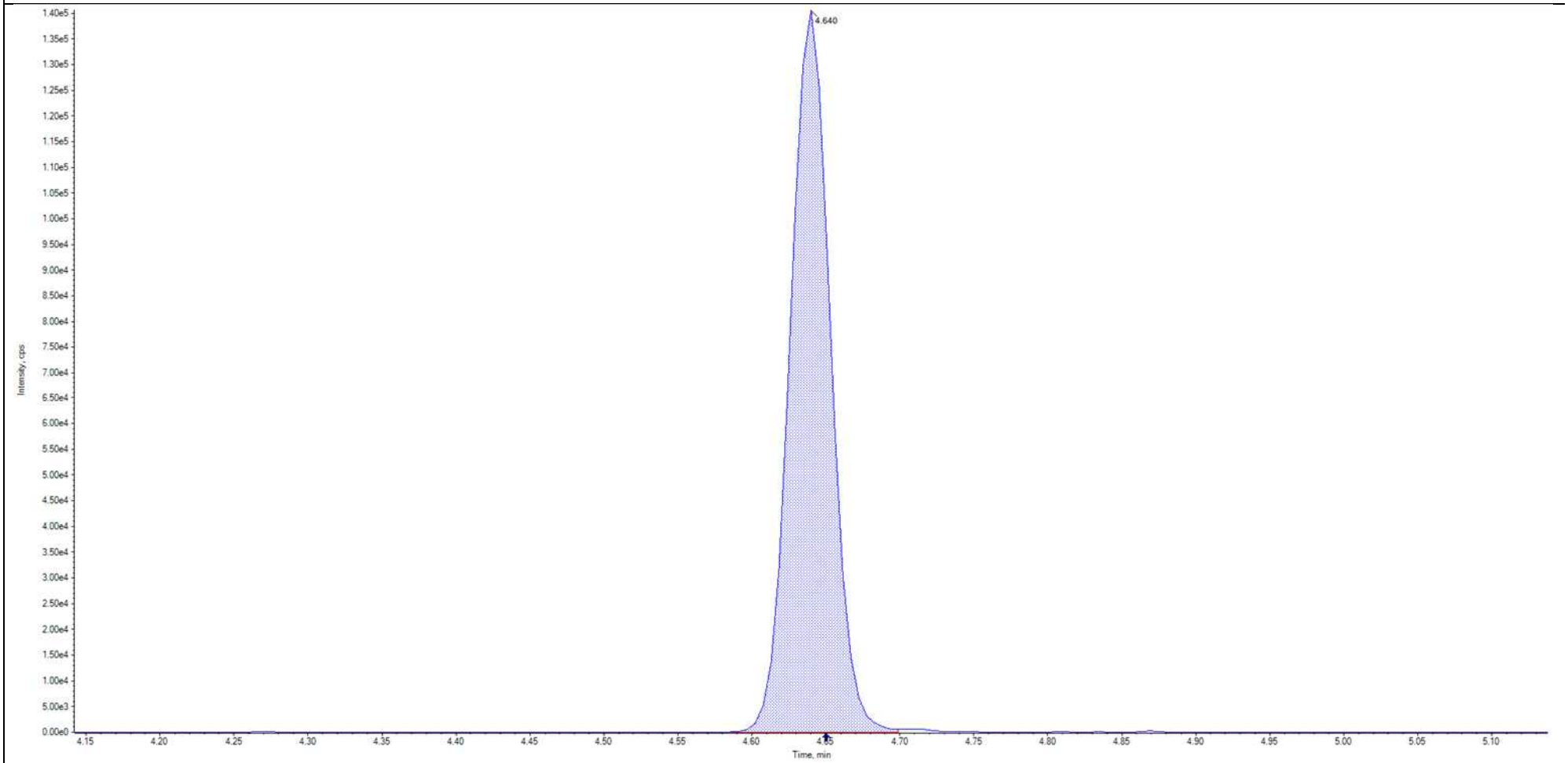


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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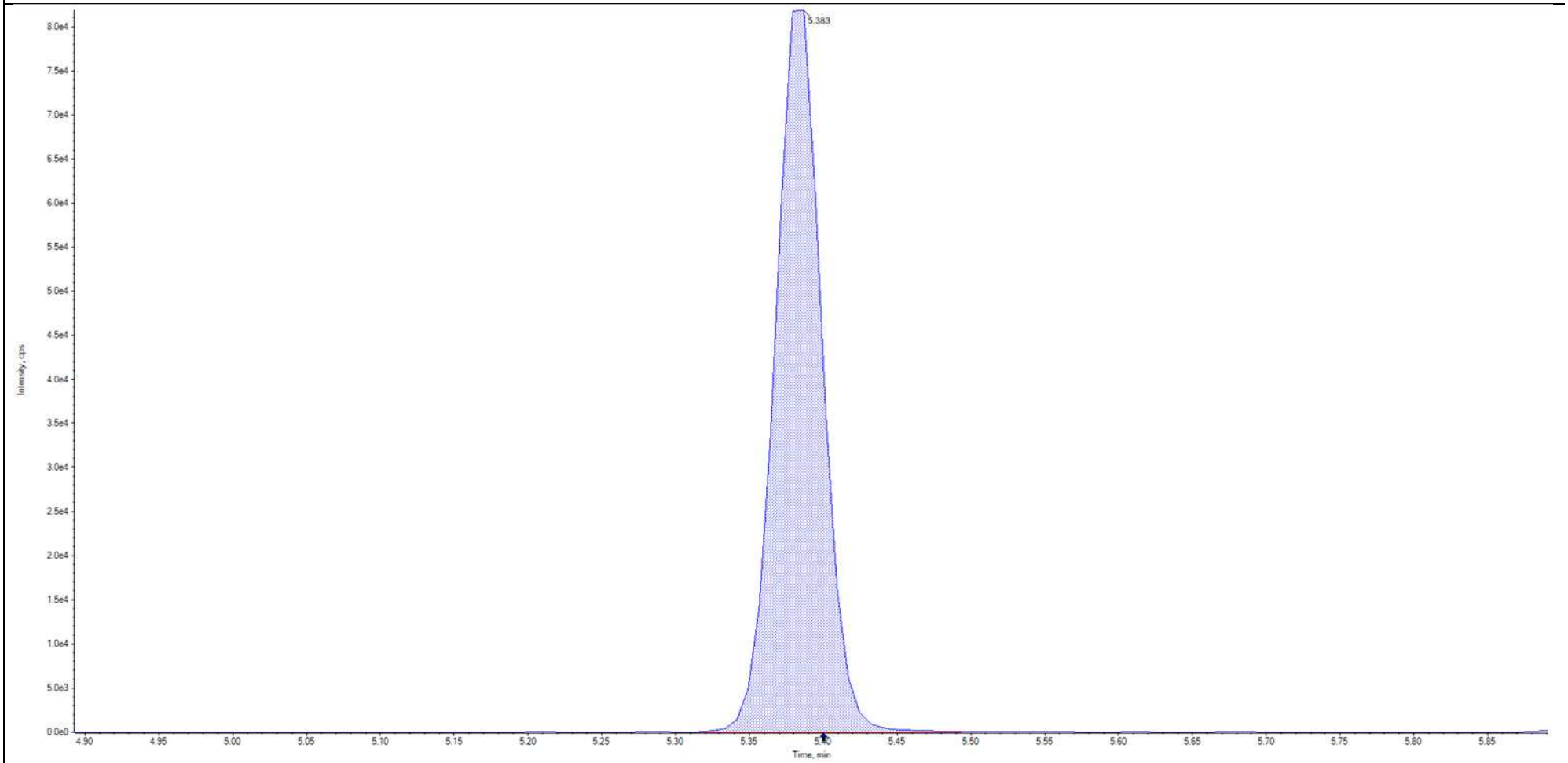
13C7-PFUnA
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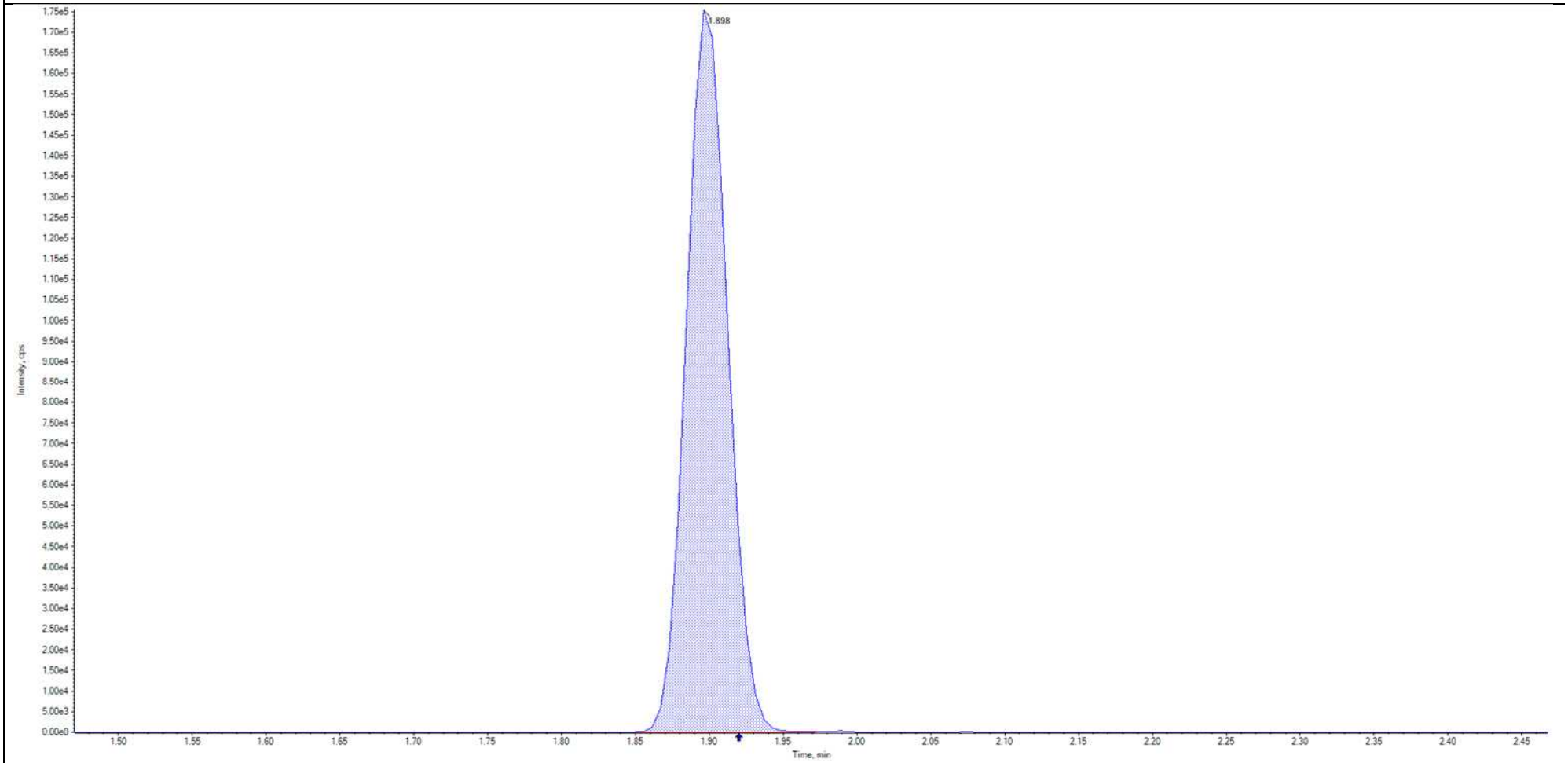
13C2-PFDoA
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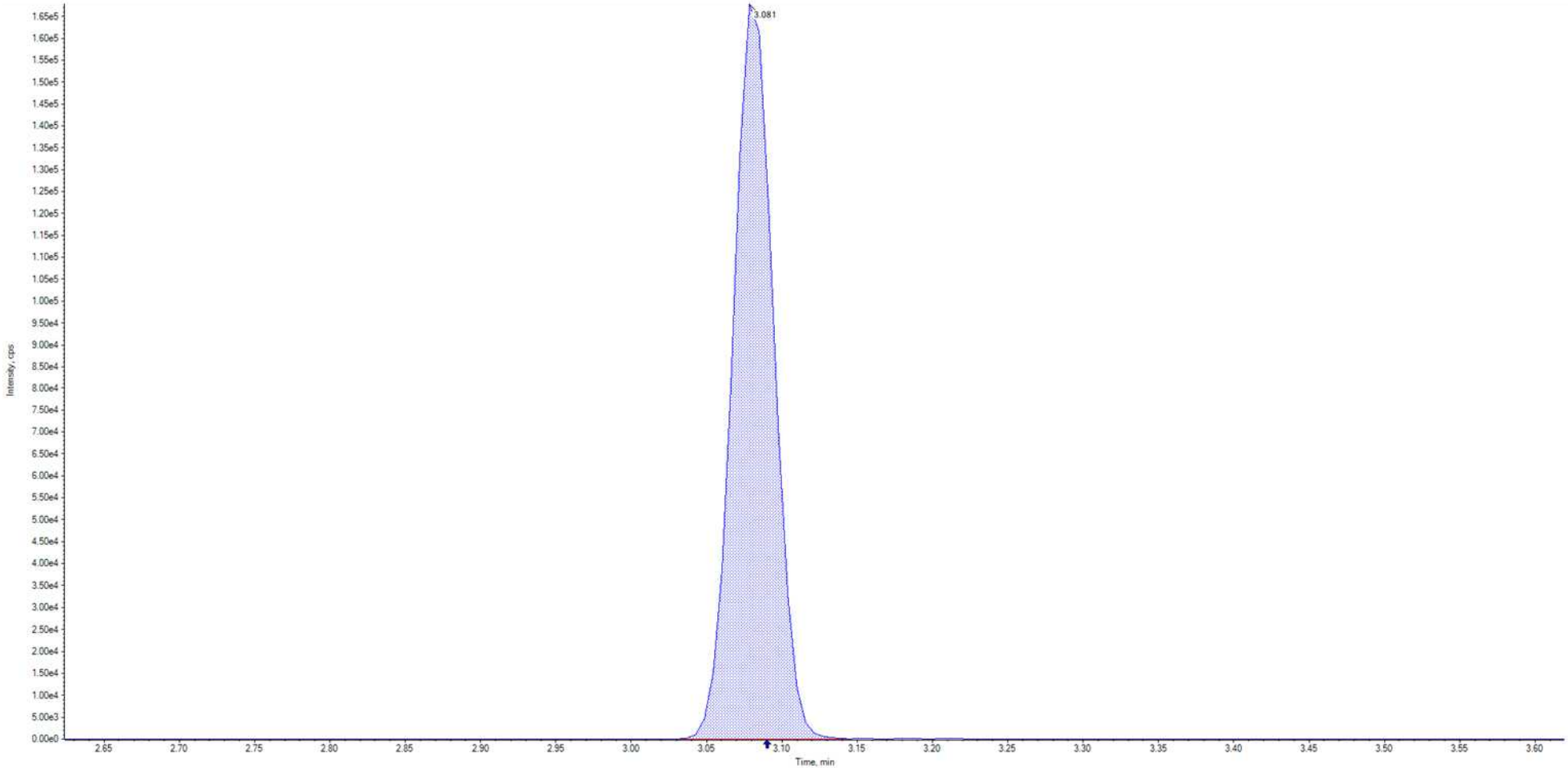
13C2-PFTeDA
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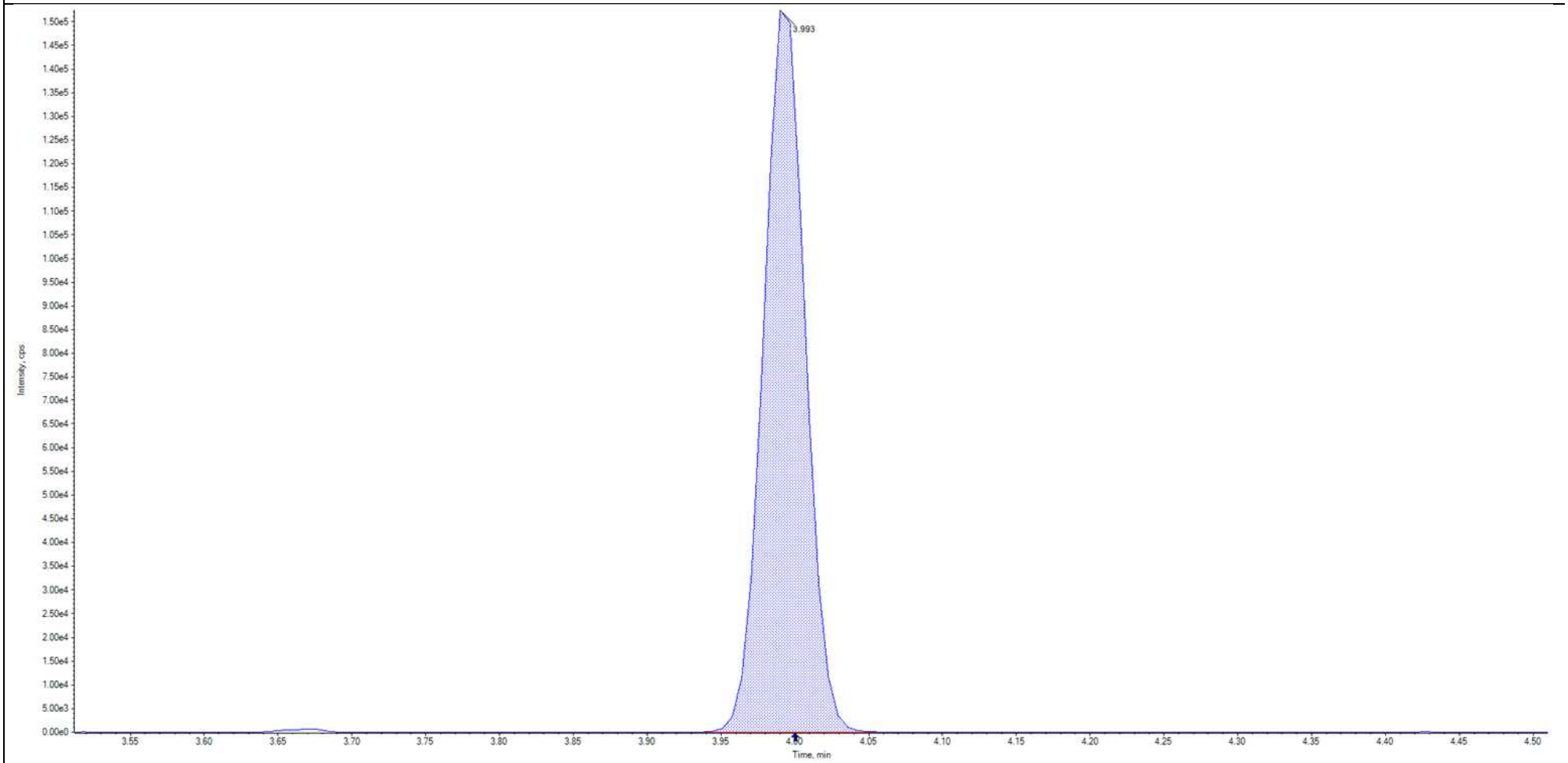
13C3-PFBS
Sample: WG2038443-2R



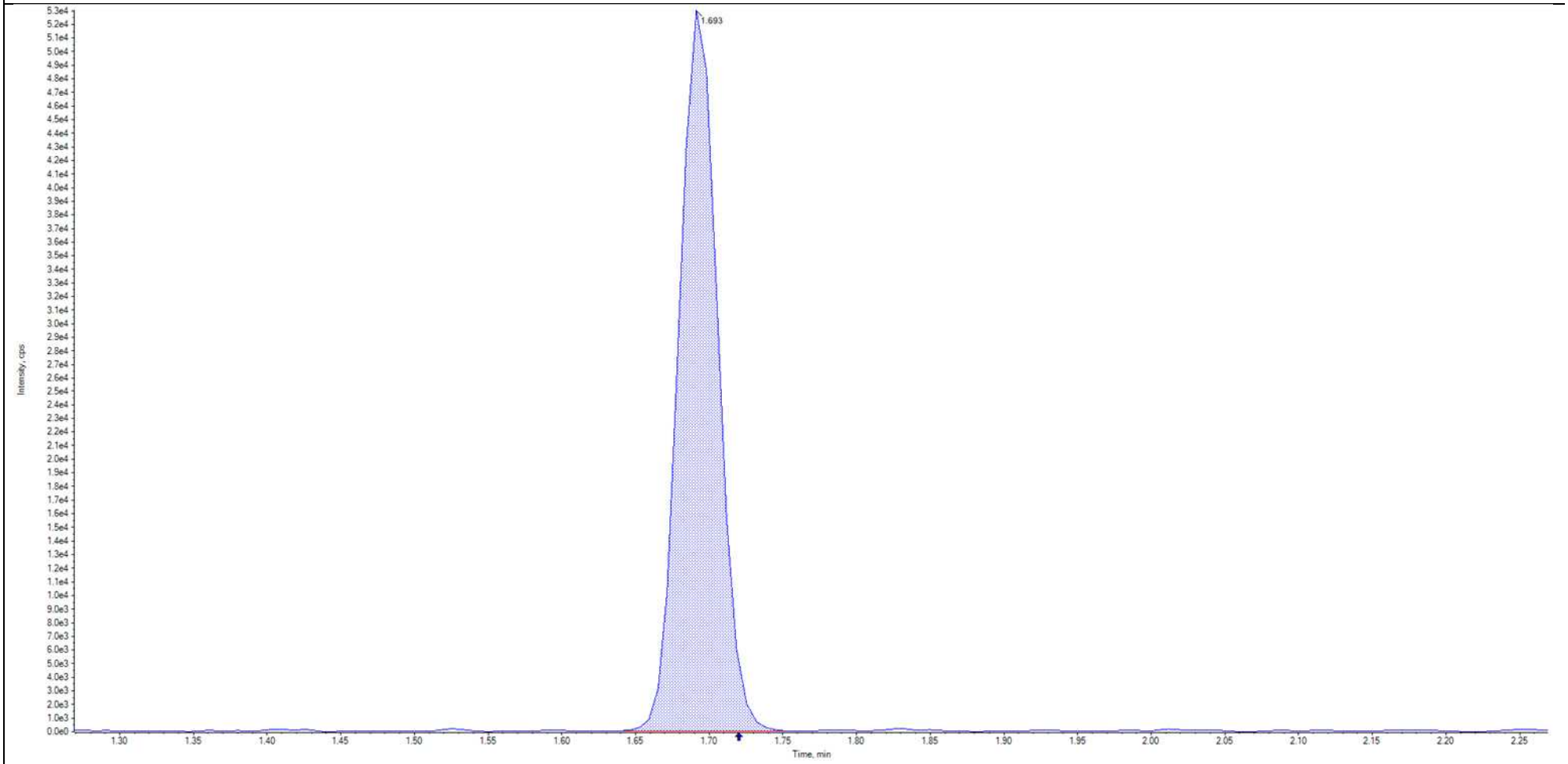
13C3-PFHxS
Sample: WG2038443-2R



13C8-PFOS
Sample: WG2038443-2R

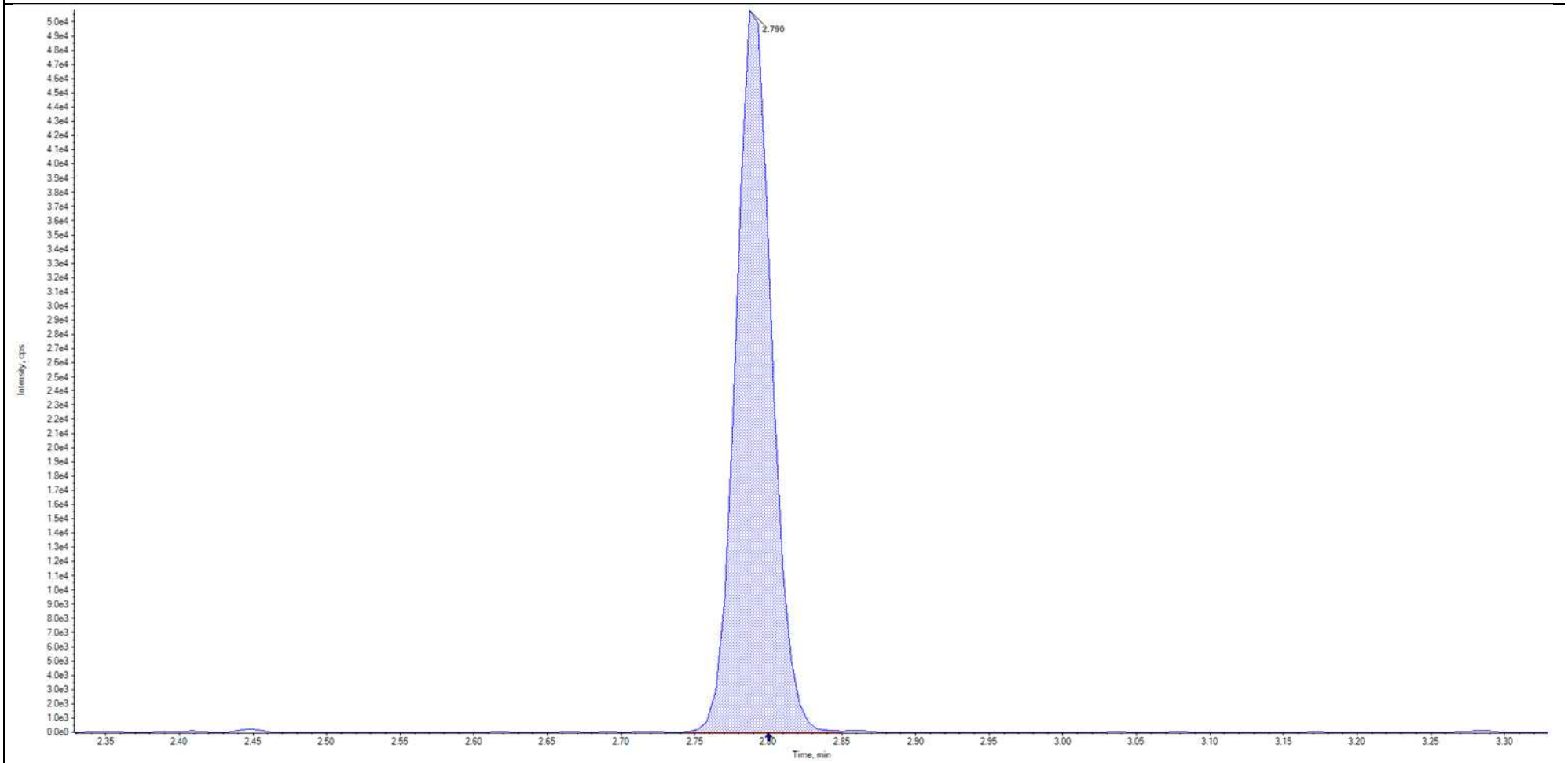


13C2-4:2FTS
Sample: WG2038443-2R

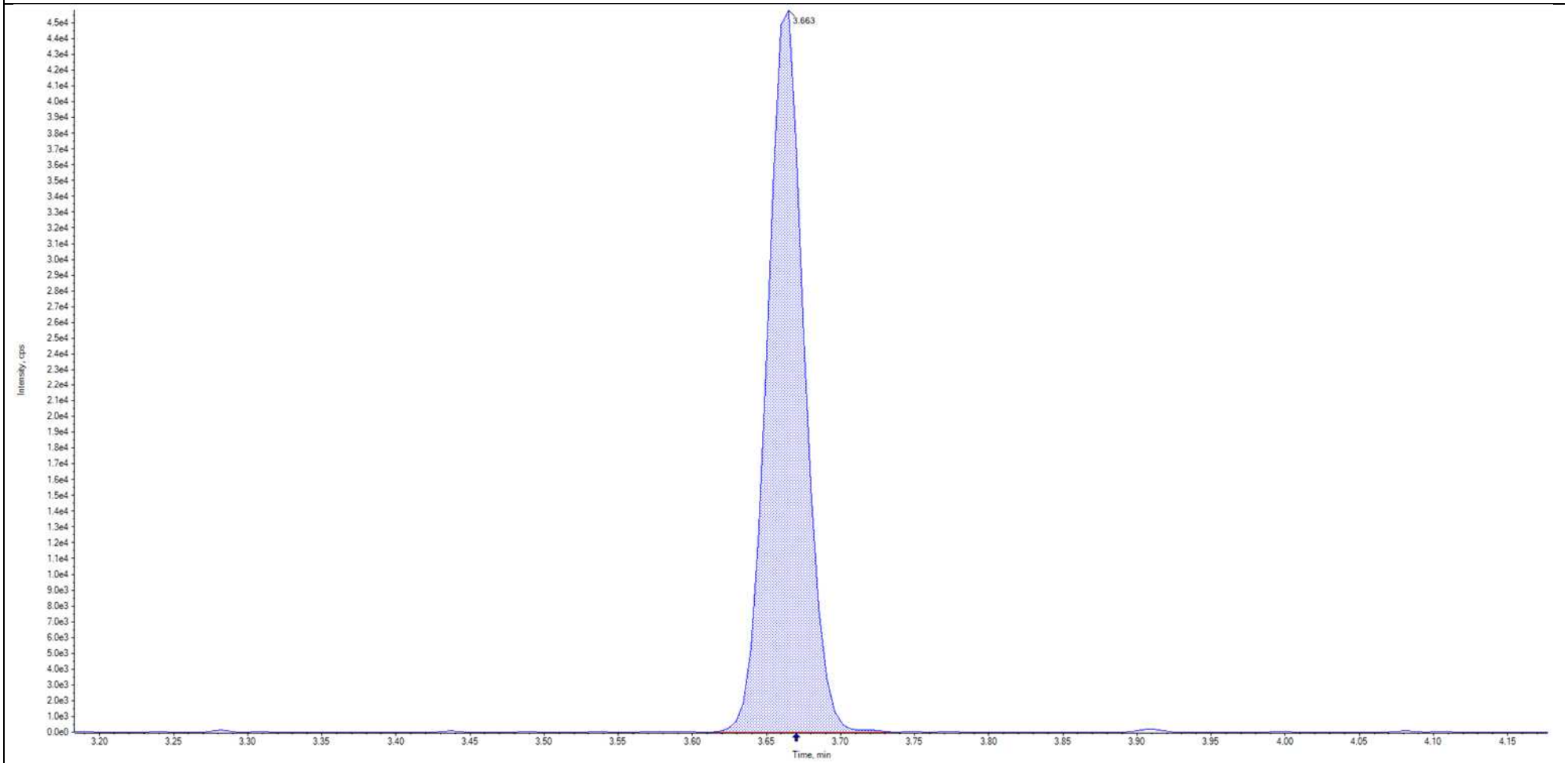


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Alpha Analytical LLC
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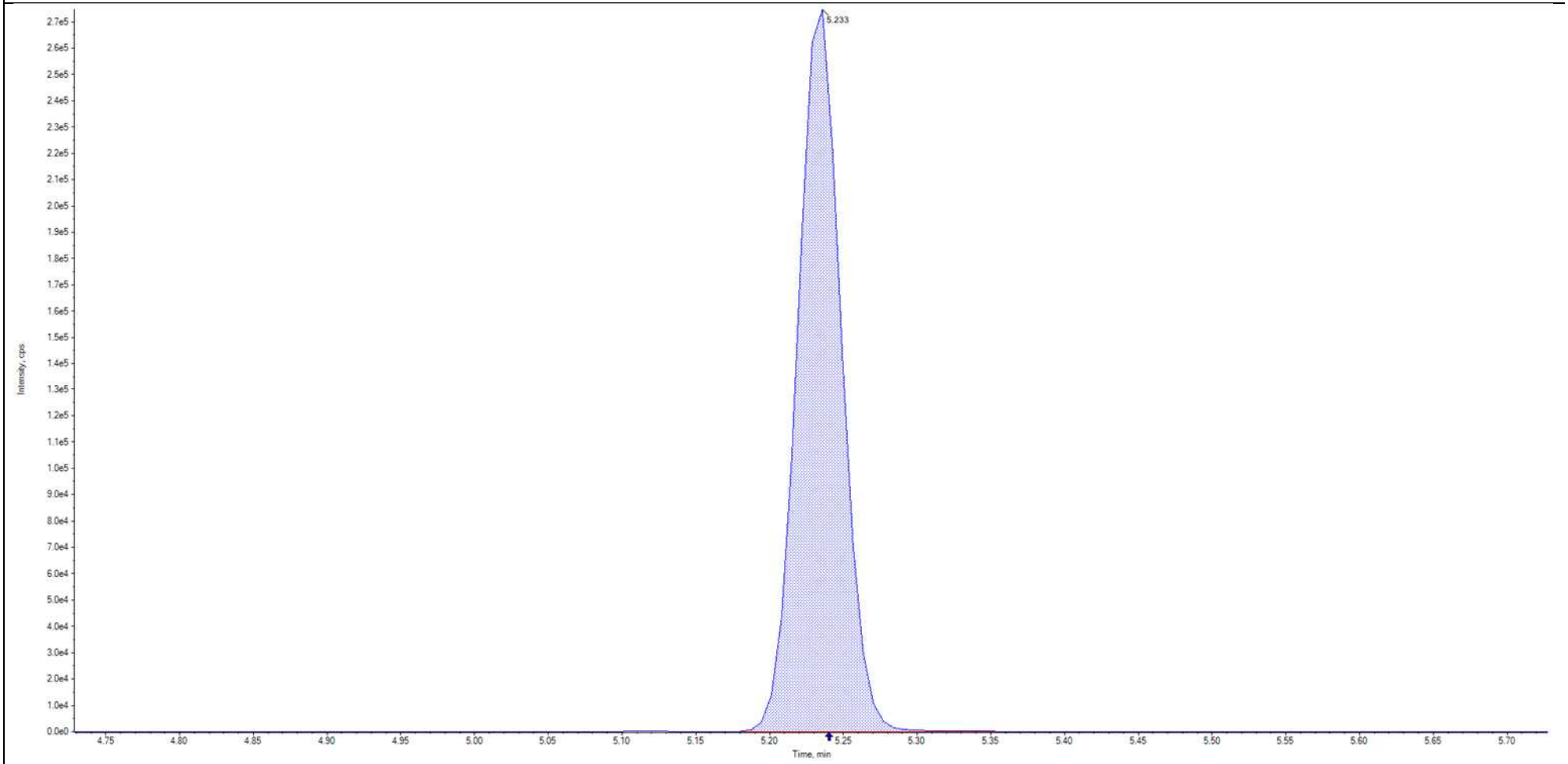
13C2-6:2FTS
Sample: WG2038443-2R



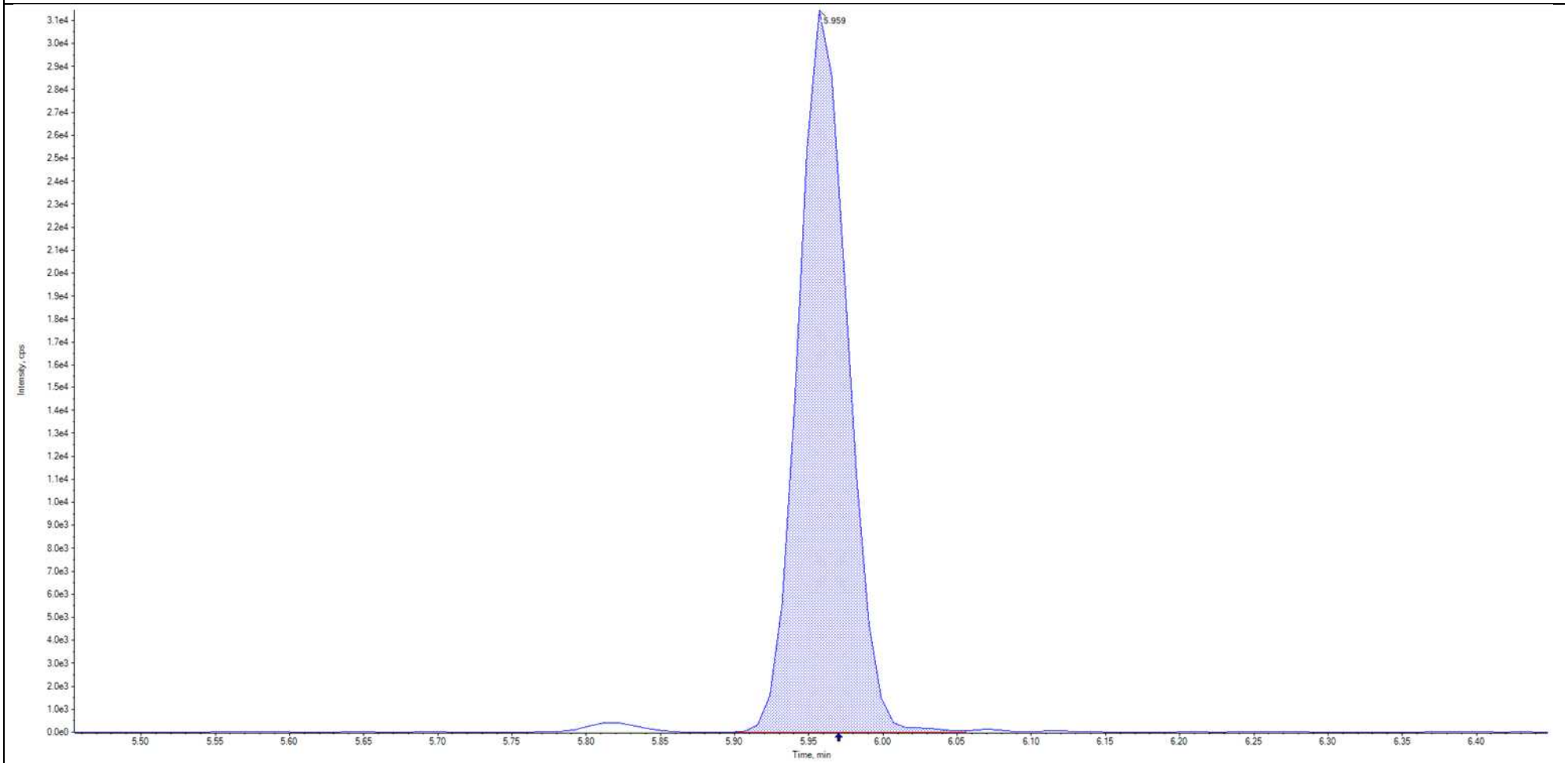
13C2-8:2FTS
Sample: WG2038443-2R



13C8-PFOSA
Sample: WG2038443-2R

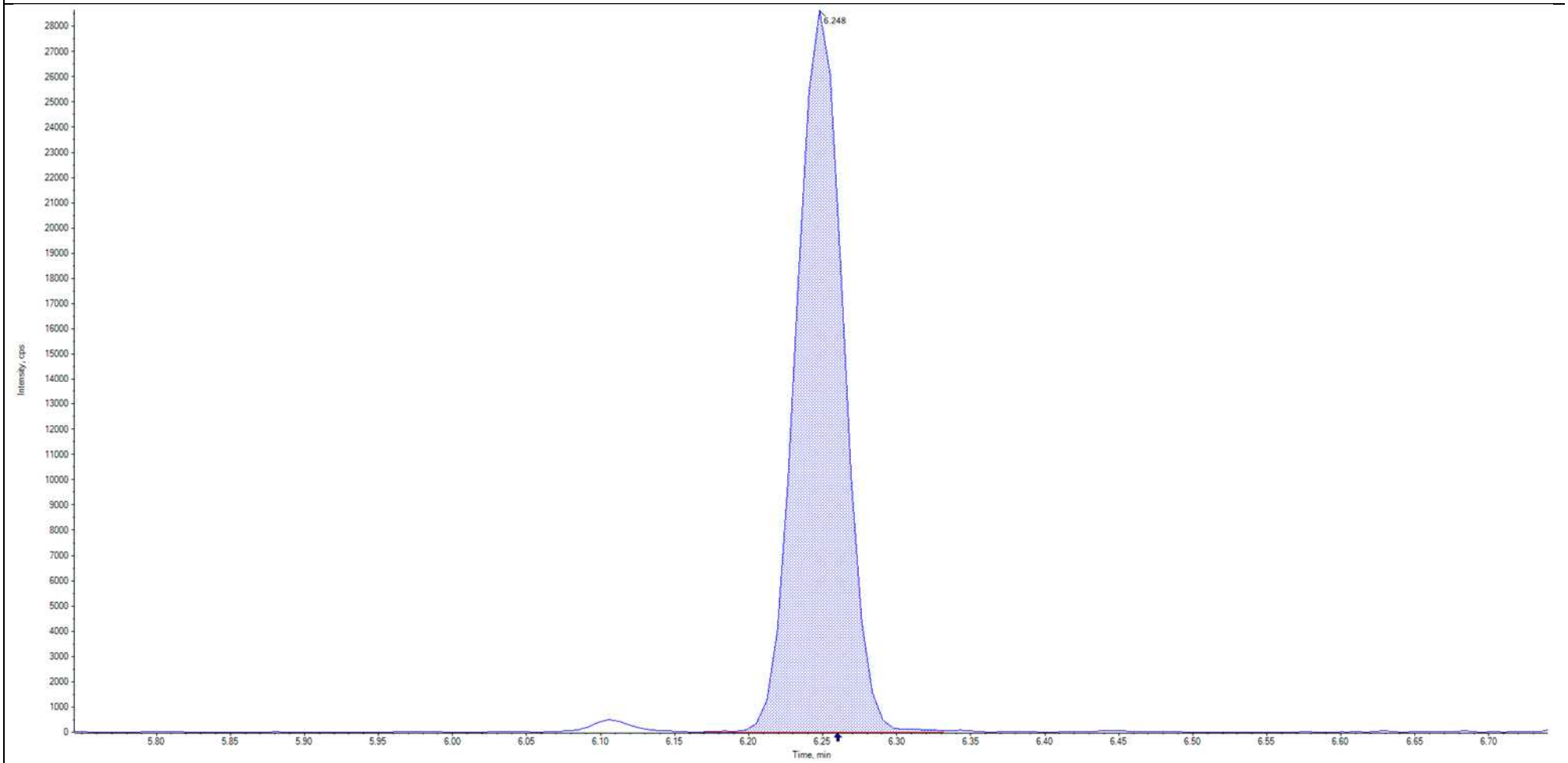


d3-NMeFOSA
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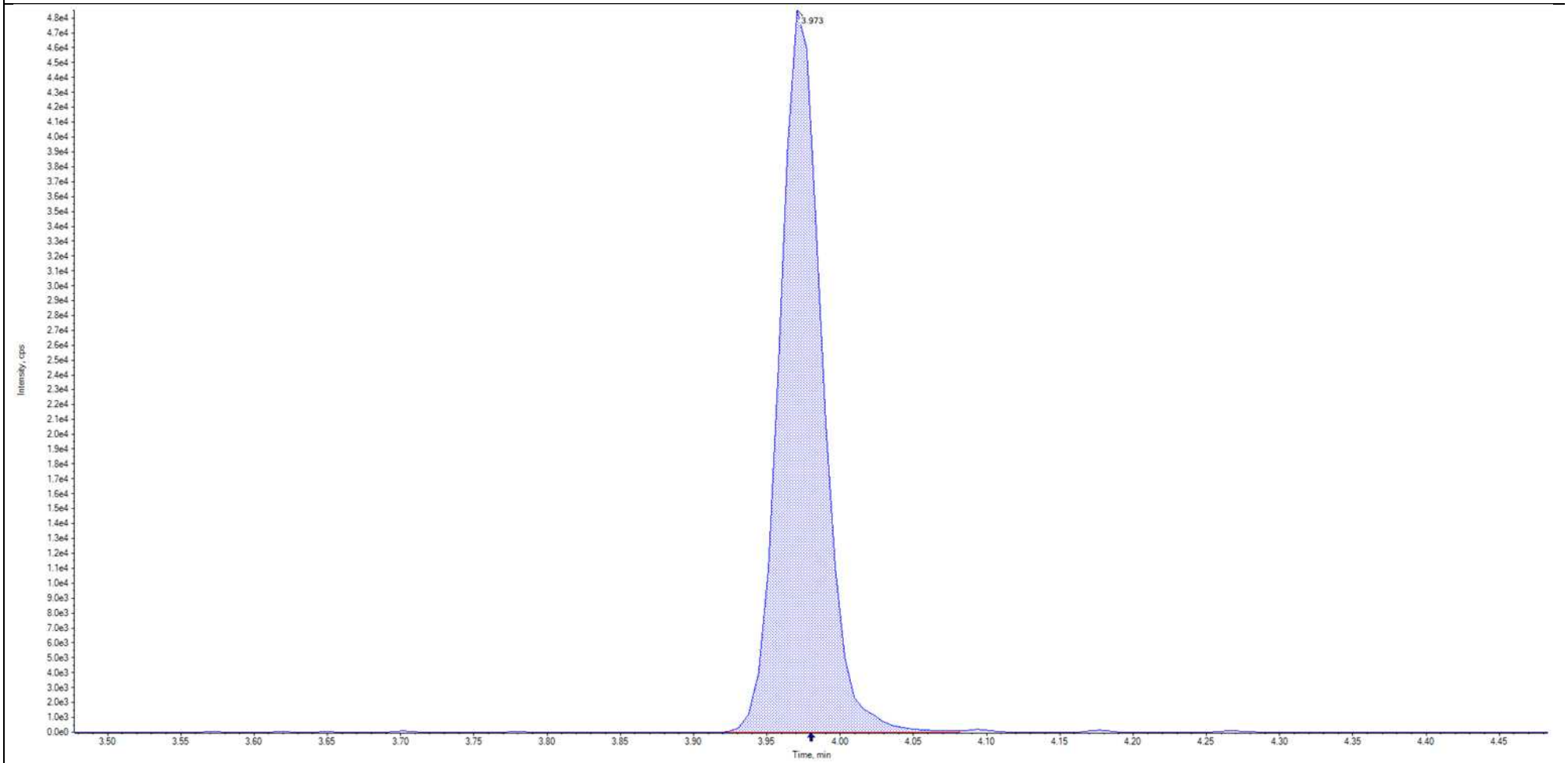


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d5-NEtFOSA
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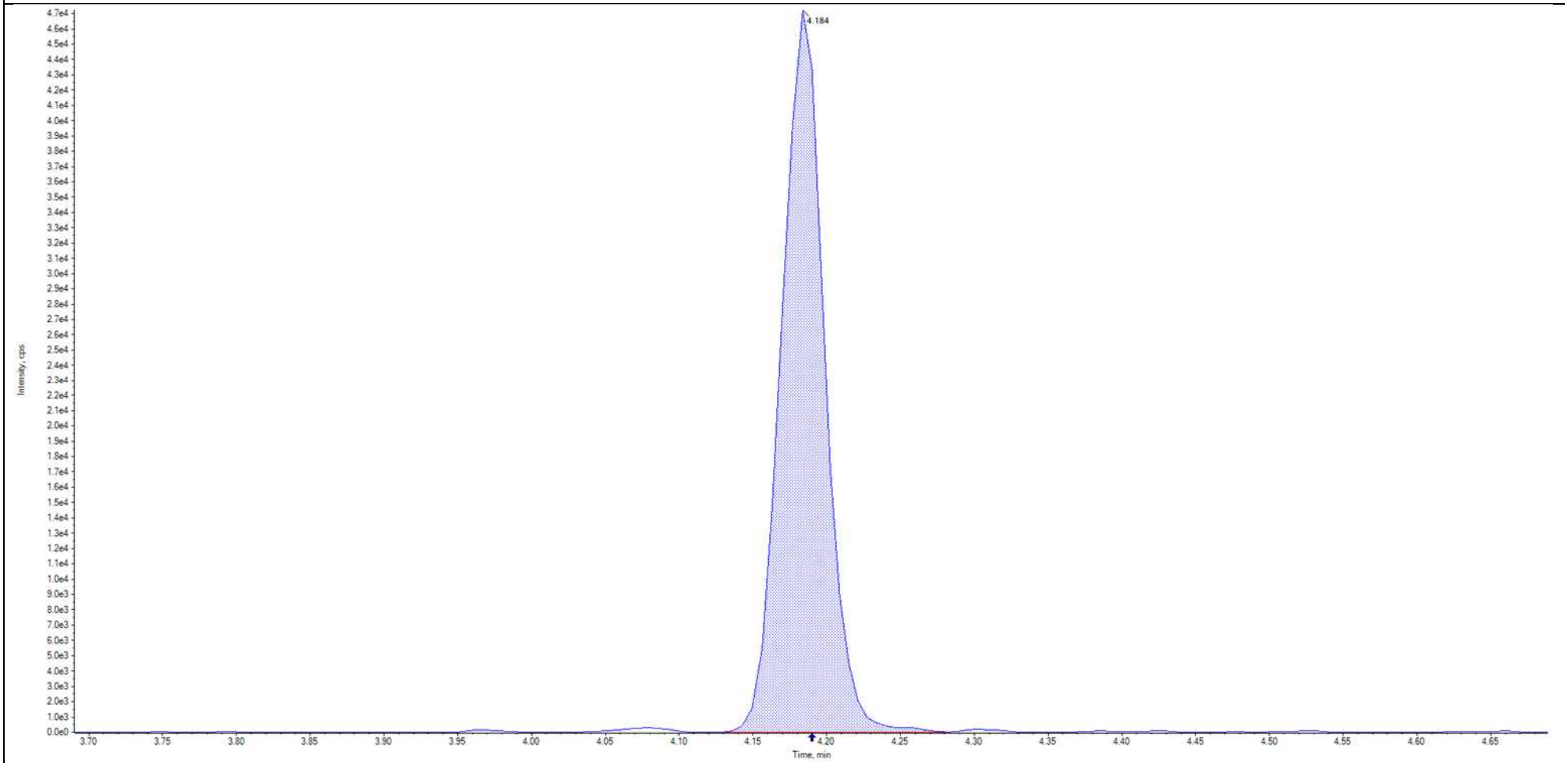


d3-NMeFOSAA
Sample: WG2038443-2R

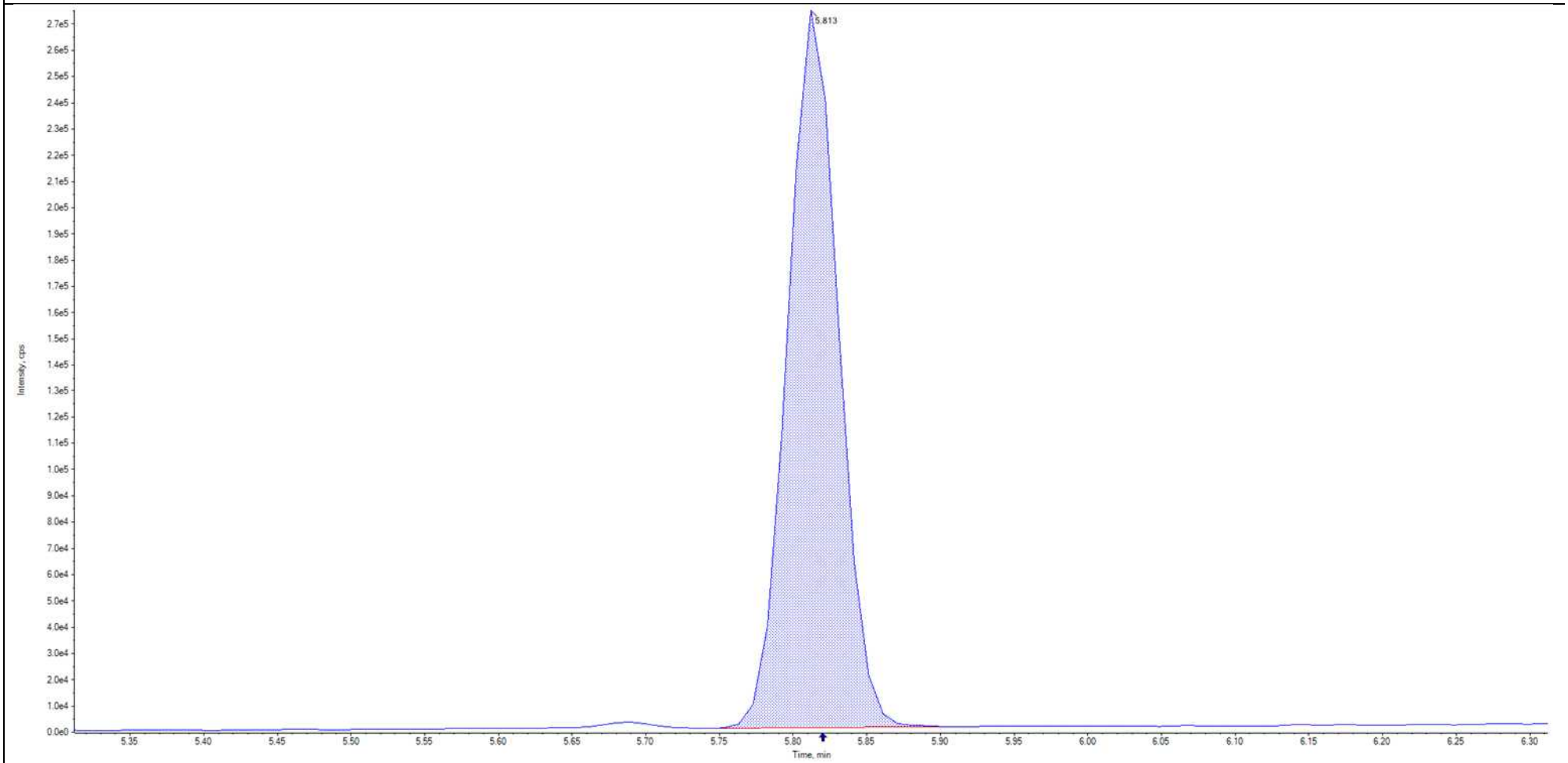


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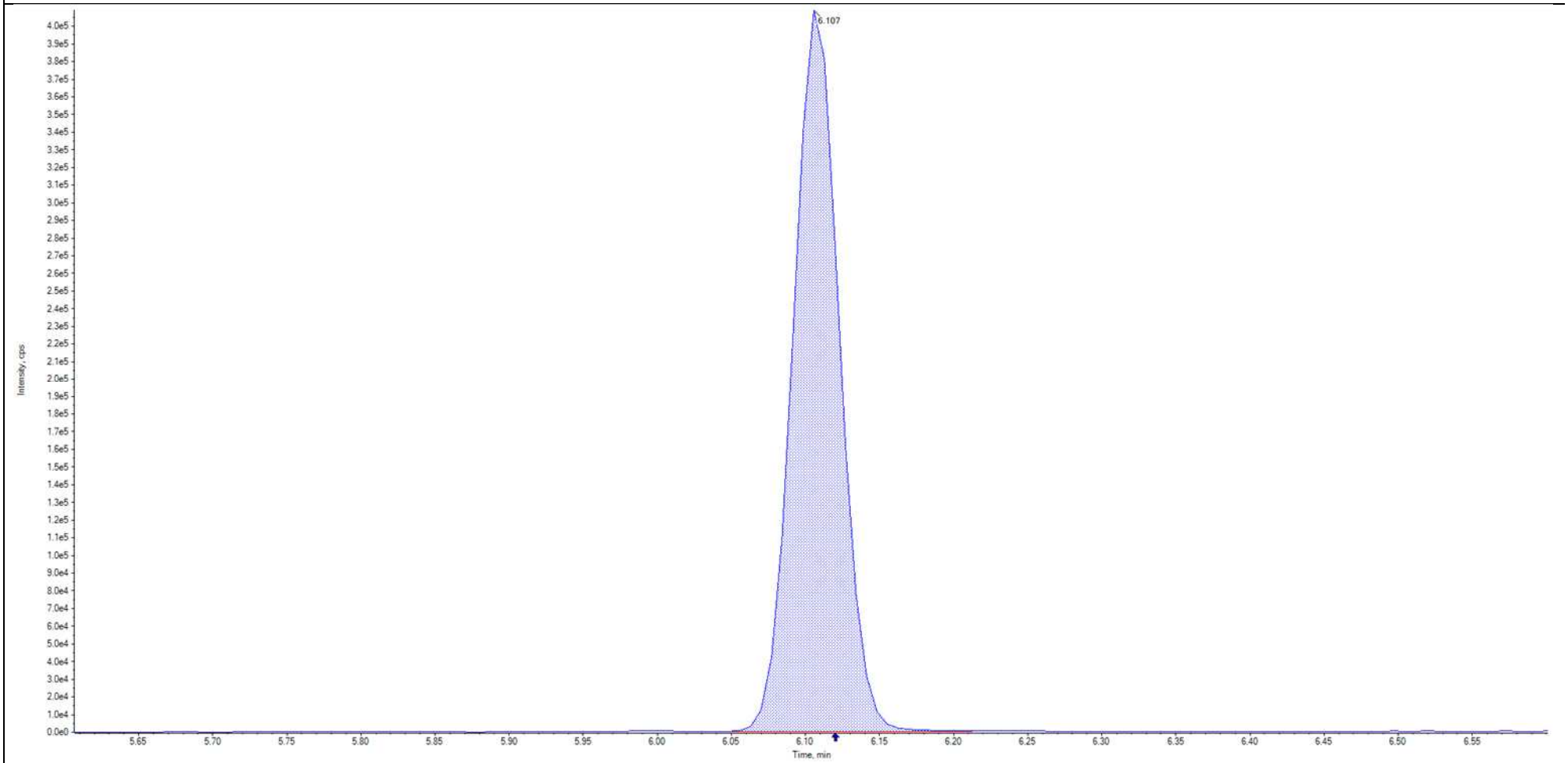
d5-NEtFOSAA
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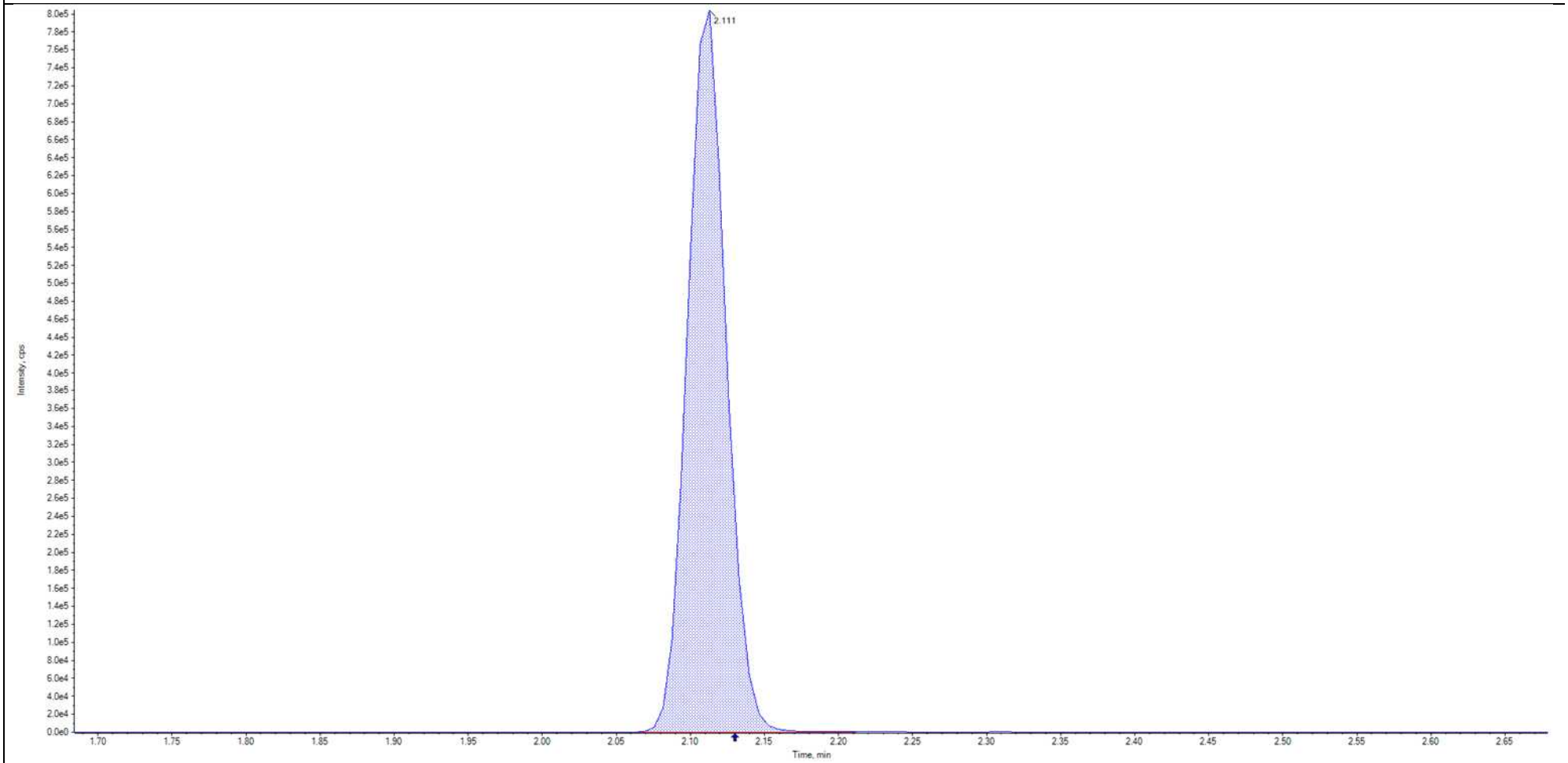
d7-NMeFOSE
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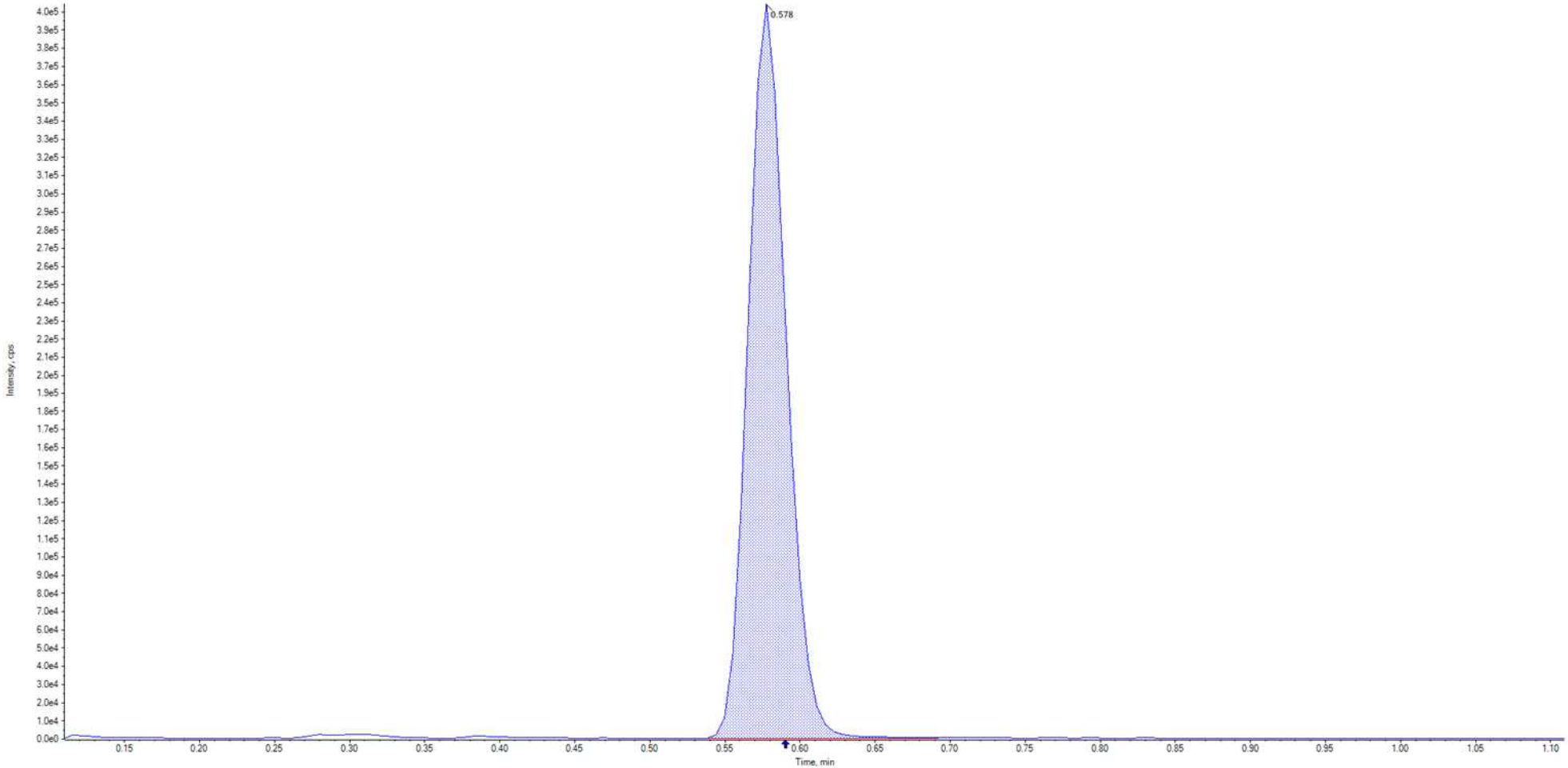
d9-NEtFOSE
Sample: WG2038443-2R



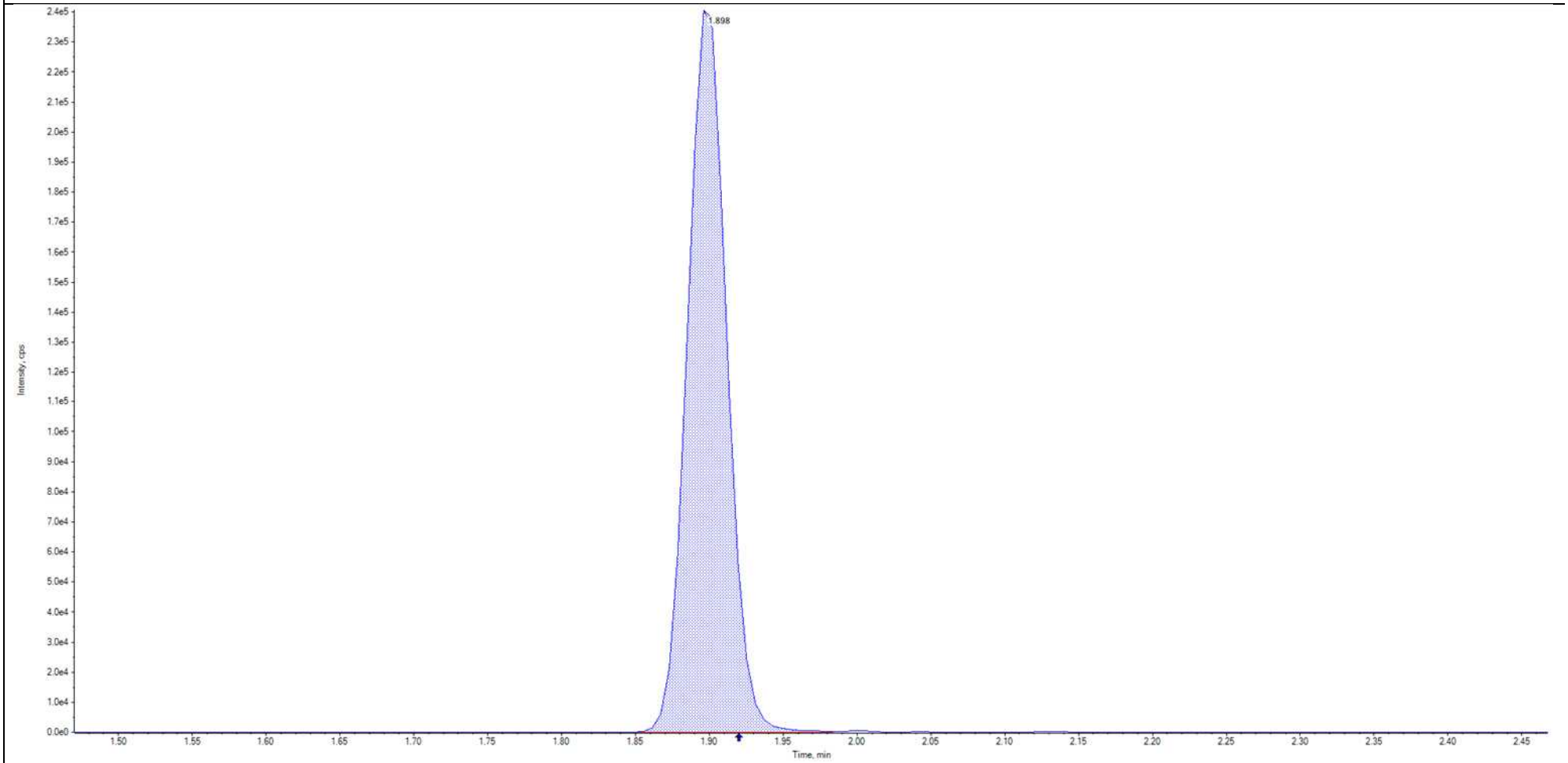
13C3-HFPO-DA
Sample: WG2038443-2R



13C3-PFBA
Sample: WG2038443-2R

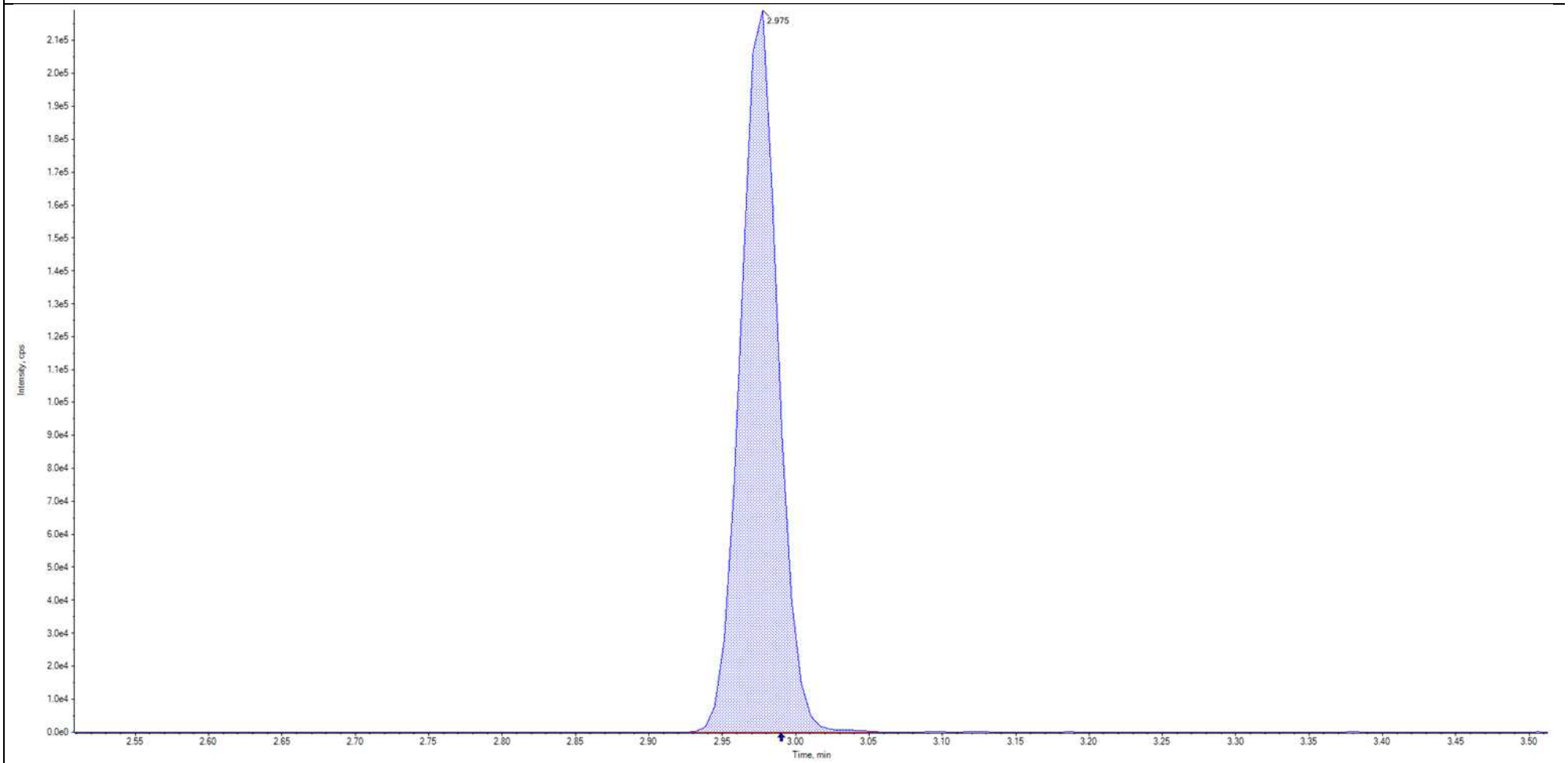


13C2-PFHxA
Sample: WG2038443-2R



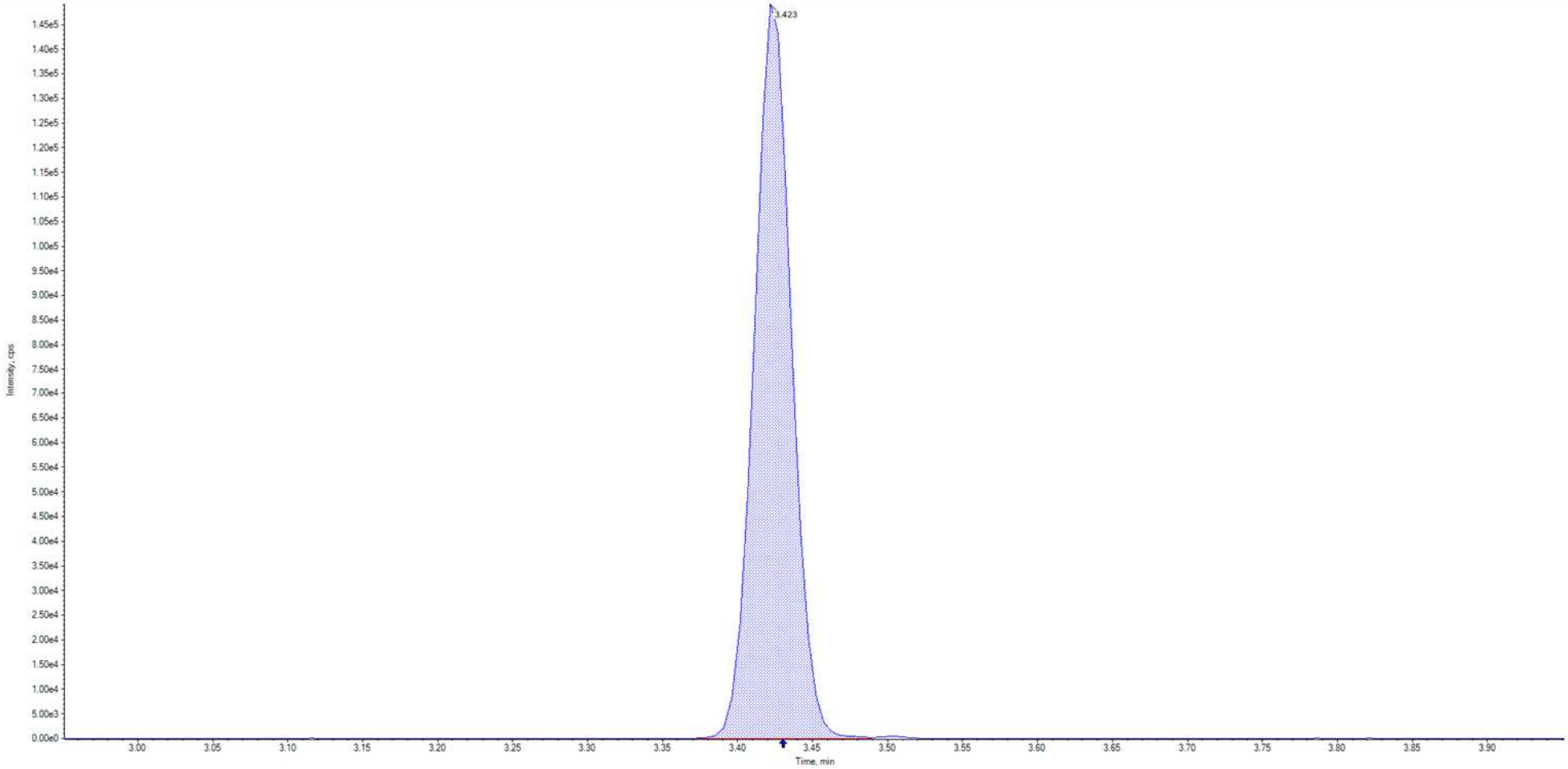
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13C4-PFOA
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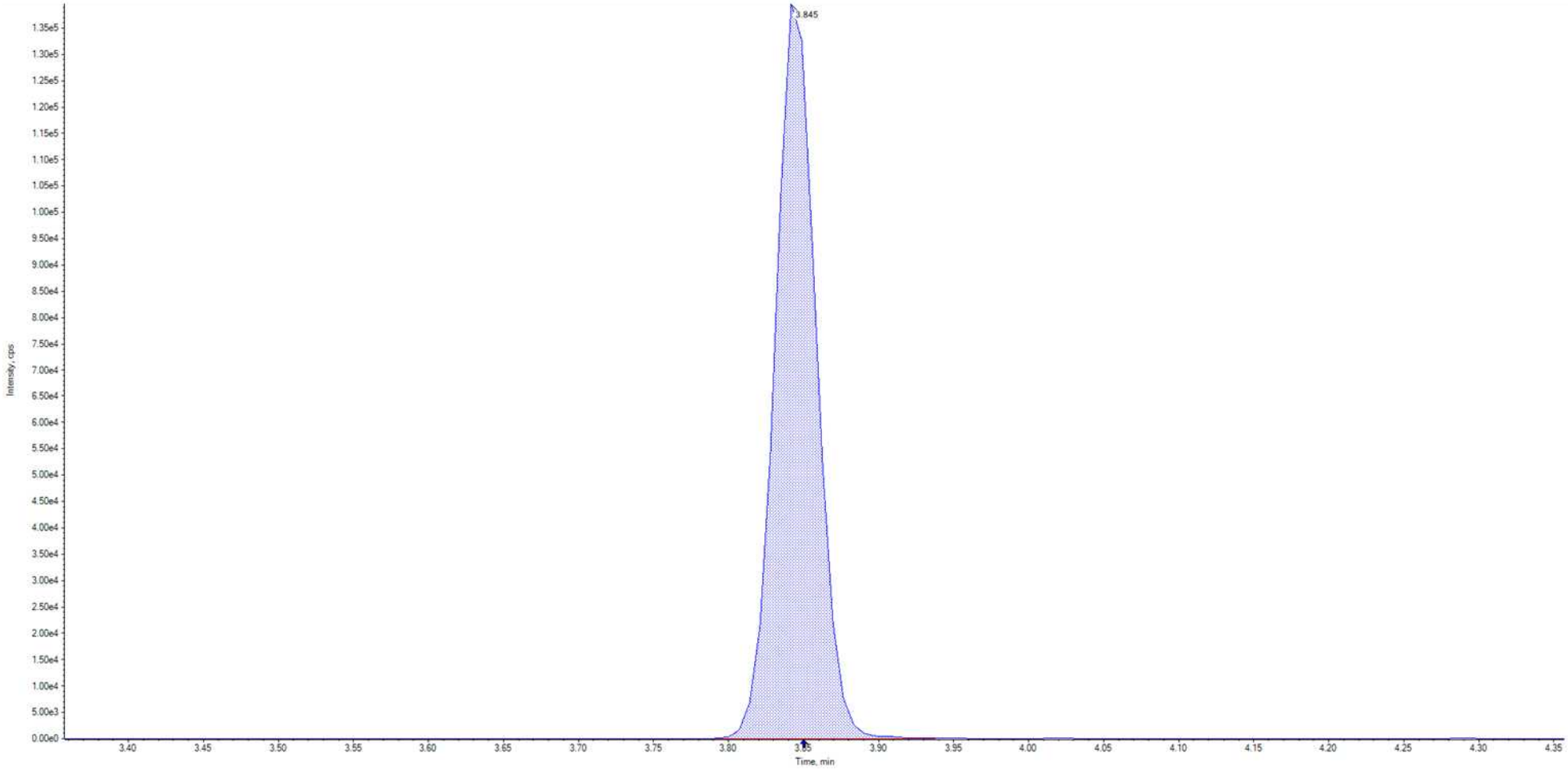


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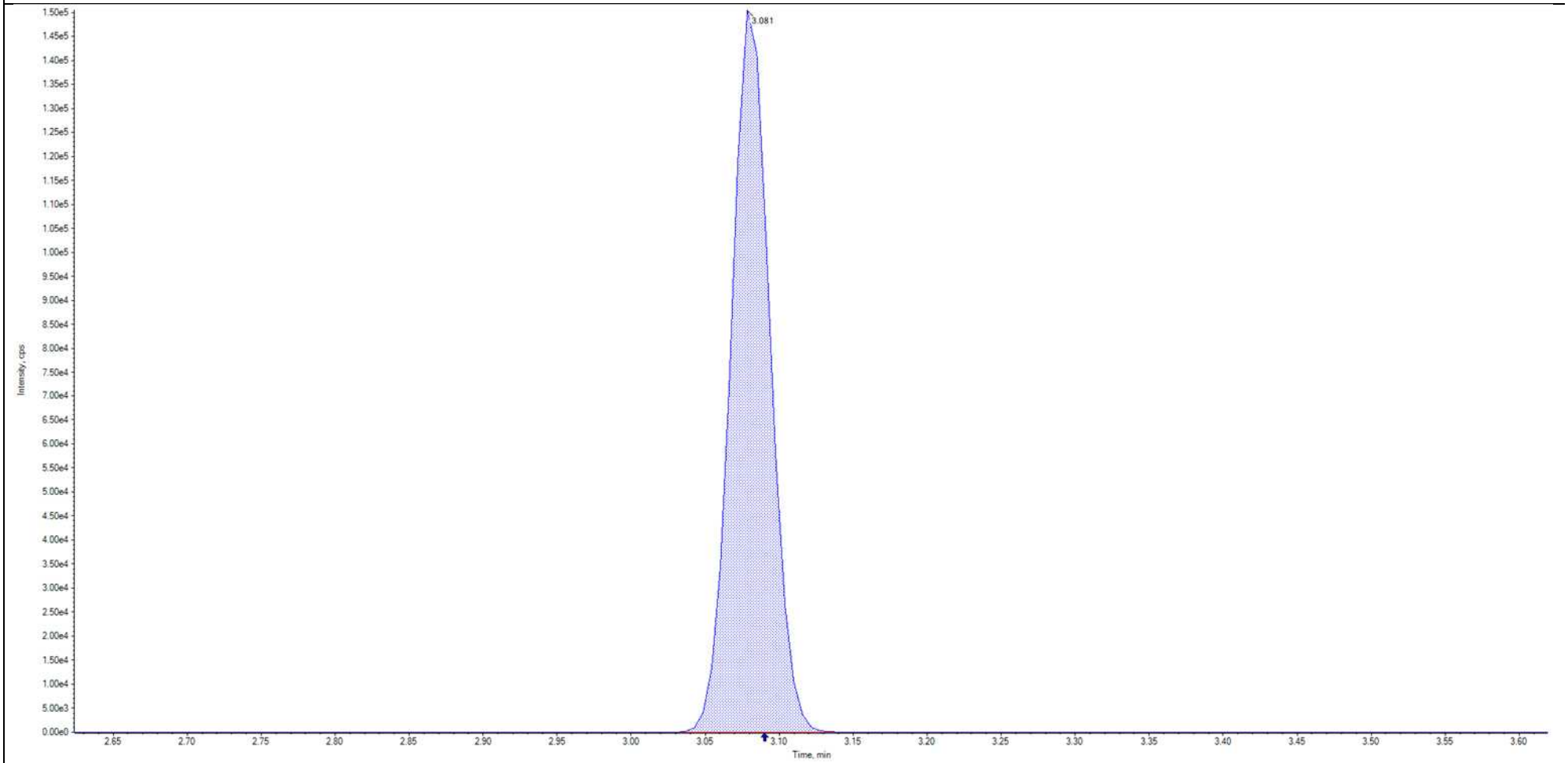
13C5-PFNA
Sample: WG2038443-2R



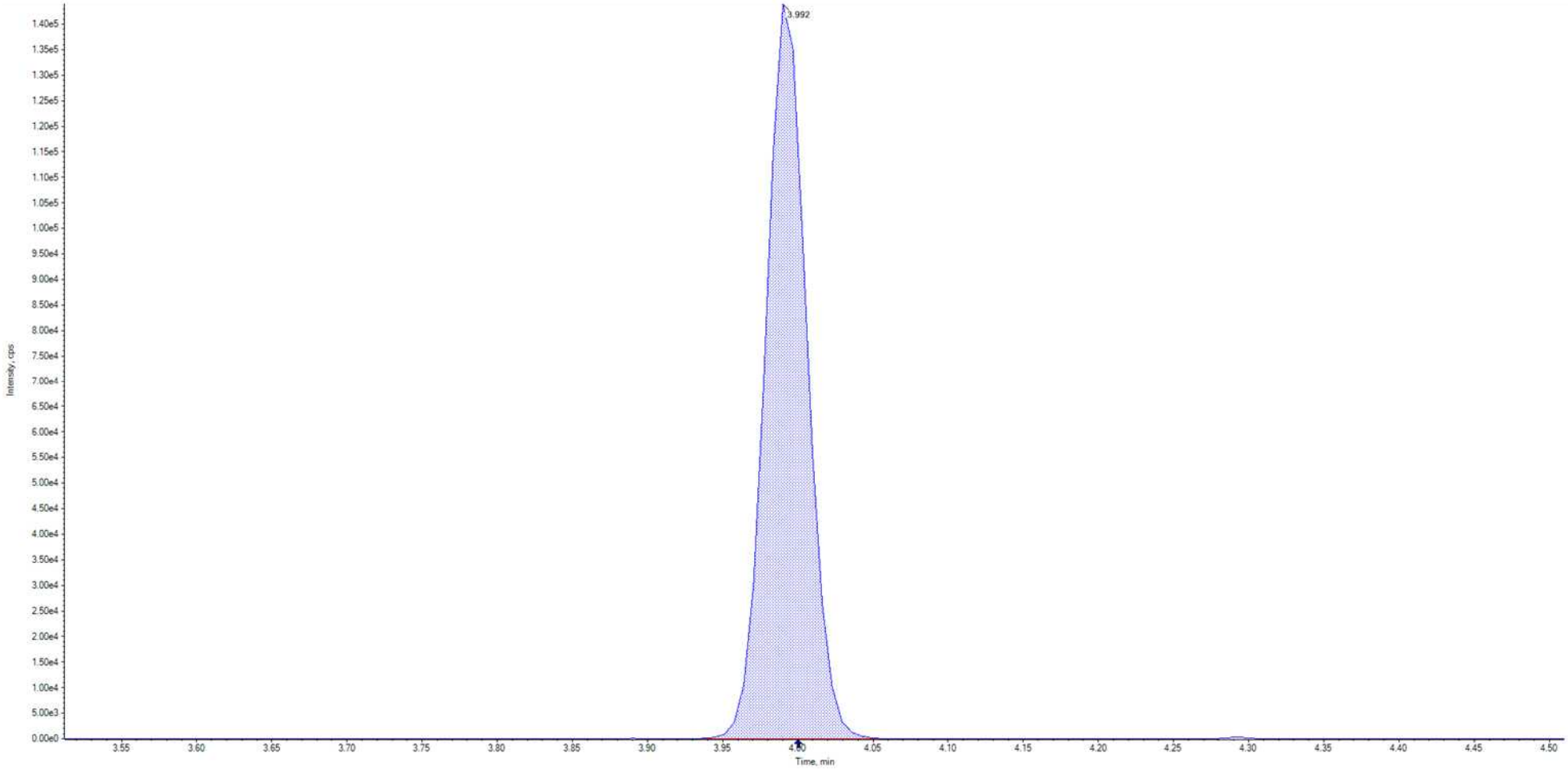
13C2-PFDA
Sample: WG2038443-2R



18O2-PFHxS
Sample: WG2038443-2R



13C4-PFOS
Sample: WG2038443-2R



Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_44.wiff2_3
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Alpha Analytical LLC
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Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

ID: WG2038443-3R
Name: SCI09_250311_45.wiff2
Date & Time: 2025-03-11T12:44:18
Description: WG2038851,WG2038443,ICAL22044
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.58	213.0 / 169.0	1279891		8.947	N/A	N/A	N/A	89.5
2	PFPeA	2706-90-3	1.16	263.0 / 219.0	619558		4.507	0.006	N/A	N/A	90.1
3	PFPeA_2	2706-90-3	1.16	263.0 / 68.9	4021		4.170	0.006	N/A	N/A	83.4
4	PFHxA	307-24-4	1.91	313.0 / 269.0	403320		2.221	0.084	0.081	Pass	88.8
5	PFHxA_2	307-24-4	1.91	313.0 / 119.0	33798		2.189	0.084	0.081	Pass	87.6
6	PFHpA	375-85-9	2.49	363.1 / 319.0	457471		2.313	0.377	0.373	Pass	92.5
7	PFHpA_2	375-85-9	2.49	363.1 / 169.0	172287		2.207	0.377	0.373	Pass	88.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	2.99	413.1 / 369.1	443031	M5	2.056	0.439	0.424	Pass	82.3
9	PFOA_2	335-67-1	2.99	413.1 / 169.0	194337	M5	2.131	0.439	0.424	Pass	85.3
10	PFNA	375-95-1	3.43	462.8 / 418.9	290301	M5	2.162	0.480	0.493	Pass	86.5
11	PFNA_2	375-95-1	3.43	462.8 / 219.0	139410	M5	2.133	0.480	0.493	Pass	85.3
12	PFDA	335-76-2	3.86	513.1 / 469.1	420324		2.334	0.180	0.188	Pass	93.3
13	PFDA_2	335-76-2	3.86	513.1 / 219.0	75685		2.282	0.180	0.188	Pass	91.3
14	PFUnA	2058-94-8	4.26	563.1 / 519.1	404531		2.460	0.144	0.146	Pass	98.4
15	PFUnA_2	2058-94-8	4.26	563.1 / 269.0	58450		2.473	0.144	0.146	Pass	98.9
16	PFDoA	307-55-1	4.65	613.1 / 569.1	409822		2.210	0.133	0.142	Pass	88.4
17	PFDoA_2	307-55-1	4.65	613.1 / 319.0	54594		2.136	0.133	0.142	Pass	85.5
18	PFTrDA	72629-94-8	5.03	663.1 / 619.1	382428		2.347	0.149	0.152	Pass	93.9
19	PFTrDA_2	72629-94-8	5.03	663.1 / 169.0	56795		2.270	0.149	0.152	Pass	90.8
20	PFTeDA	376-06-7	5.40	713.1 / 669.1	341317		2.066	0.157	0.154	Pass	82.7
21	PFTeDA_2	376-06-7	5.40	713.1 / 169.0	53559		1.986	0.157	0.154	Pass	79.4
22	PFBS	375-73-5	1.91	299.1 / 80.1	303344		1.969	0.374	0.374	Pass	88.7

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.91	299.1 / 99.1	113442		2.112	0.374	0.374	Pass	89.9
24	PFPeS	2706-91-4	2.55	349.1 / 80.1	328782		2.226	0.289	0.314	Pass	94.7
25	PFPeS_2	2706-91-4	2.55	349.1 / 99.1	94918		2.047	0.289	0.314	Pass	87.1
26	PFHxS	355-46-4	3.09	399.1 / 80.1	271968		2.017	0.295	0.306	Pass	88.5
27	PFHxS_2	355-46-4	3.09	399.1 / 99.1	80269	M5	2.055	0.295	0.306	Pass	90.2
28	PFHpS	375-92-8	3.56	449.1 / 80.1	265253		2.193	0.316	0.316	Pass	92.1
29	PFHpS_2	375-92-8	3.57	449.1 / 99.1	83764		2.263	0.316	0.316	Pass	95.1
30	PFOS	1763-23-1	4.00	499.1 / 80.1	290723	M5	1.976	0.264	0.244	Pass	85.2
31	PFOS_2	1763-23-1	4.00	499.1 / 99.1	76671	M5	2.074	0.264	0.244	Pass	89.4
32	PFNS	68259-12-1	4.42	549.1 / 80.1	204373		2.040	0.305	0.294	Pass	85.0
33	PFNS_2	68259-12-1	4.41	549.1 / 99.1	62296		2.175	0.305	0.294	Pass	90.6
34	PFDS	335-77-3	4.81	599.1 / 80.1	189335		1.924	0.300	0.290	Pass	79.8
35	PFDS_2	335-77-3	4.81	599.1 / 99.1	56871		2.046	0.300	0.290	Pass	84.9
36	PFDoS	79780-39-5	5.55	699.2 / 80.1	175206		1.954	0.257	0.256	Pass	80.7
37	PFDoS_2	79780-39-5	5.55	699.2 / 99.1	45115		1.952	0.257	0.256	Pass	80.7

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.70	327.1 / 307.1	268256		8.762	0.607	0.650	Pass	93.5
39	4:2FTS_2	757124-72-4	1.70	327.1 / 81.1	162710		8.234	0.607	0.650	Pass	87.9
40	6:2FTS	27619-97-2	2.80	427.2 / 407.2	262953		8.973	0.632	0.620	Pass	94.4
41	6:2FTS_2	27619-97-2	2.80	427.2 / 81.1	166311		8.854	0.632	0.620	Pass	93.1
42	8:2FTS	39108-34-4	3.67	527.2 / 507.2	198145		8.788	0.683	0.676	Pass	91.5
43	8:2FTS_2	39108-34-4	3.67	527.2 / 81.1	135333		8.720	0.683	0.676	Pass	90.8
44	PFOSA	754-91-6	5.24	498.1 / 78.1	326985	M5	2.338	0.025	0.026	Pass	93.5
45	PFOSA_2	754-91-6	5.24	498.1 / 478.0	8190	M5	2.267	0.025	0.026	Pass	90.7
46	NMeFOSA	31506-32-8	5.97	512.2 / 219.0	65459	M5	2.134	1.420	1.377	Pass	85.4
47	NMeFOSA_2	31506-32-8	5.92	512.2 / 169.0	92949		2.181	1.420	1.377	Pass	87.2
48	NEtFOSA	4151-50-2	6.27	526.2 / 219.0	64178	M5	2.099	1.247	1.292	Pass	84.0
49	NEtFOSA_2	4151-50-2	6.22	526.2 / 169.0	80033		2.098	1.247	1.292	Pass	83.9
50	NMeFOSAA	2355-31-9	3.98	570.2 / 419.1	41970	M5	2.412	0.753	0.697	Pass	96.5
51	NMeFOSAA_2	2355-31-9	3.98	570.2 / 483.0	31620		2.529	0.753	0.697	Pass	101.2
52	NEtFOSAA	2991-50-6	4.20	584.2 / 419.1	40796	M5	1.999	0.529	0.557	Pass	80.0

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.20	584.2 / 526.2	21593	M5	1.920	0.529	0.557	Pass	76.8
54	NMeFOSE	24448-09-7	5.84	616.1 / 58.9	1009332	M5	20.213	N/A	N/A	N/A	80.9
55	NEtFOSE	1691-99-2	6.14	630.0 / 58.9	1432812	M5	20.617	N/A	N/A	N/A	82.5
56	HFPO-DA	13252-13-6	2.12	285.0 / 169.0	1411837		10.007	0.530	0.501	Pass	100.1
57	HFPO-DA_2	13252-13-6	2.12	285.0 / 184.9	748249		10.059	0.530	0.501	Pass	100.6
58	ADONA	919005-14-4	2.67	376.9 / 251.0	2670807		9.164	0.577	0.691	Pass	97.0
59	ADONA_2	919005-14-4	2.67	376.9 / 84.8	1540389		7.977	0.577	0.691	Pass	84.4
60	9Cl-PF3ONS	756426-58-1	4.29	530.8 / 351.1	2191088		8.739	0.348	0.332	Pass	93.7
61	9Cl-PF3ONS_2	756426-58-1	4.29	532.8 / 353.0	761808		9.141	0.348	0.332	Pass	98.0
62	11Cl-PF3OUdS	763051-92-9	5.07	630.9 / 451.0	1708773		8.059	0.313	0.322	Pass	85.5
63	11Cl-PF3OUdS_2	763051-92-9	5.07	632.9 / 452.9	534880		7.859	0.313	0.322	Pass	83.3
64	3:3FTCA	356-02-5	1.63	241.1 / 177.1	125541		11.826	1.028	1.010	Pass	94.6
65	3:3FTCA_2	356-02-5	1.63	241.1 / 117.0	129016		11.193	1.028	1.010	Pass	89.5
66	5:3FTCA	914637-49-3	3.03	341.1 / 237.1	2586289		56.954	1.040	1.017	Pass	91.1
67	5:3FTCA_2	914637-49-3	3.03	341.1 / 217.0	2689453		58.780	1.040	1.017	Pass	94.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.07	441.1 / 316.9	1691803		46.429	1.374	1.343	Pass	74.3
69	7:3FTCA_2	812-70-4	4.06	441.1 / 337.1	2324463		48.257	1.374	1.343	Pass	77.2
70	PFEESA	113507-82-7	2.21	315.1 / 135.0	1691349		3.584	0.090	0.081	Pass	80.4
71	PFEESA_2	113507-82-7	2.21	315.1 / 82.9	151404		3.901	0.090	0.081	Pass	87.5
72	PFMPA	377-73-1	0.74	229.0 / 85.0	679911		4.544	N/A	N/A	N/A	90.9
73	PFMBA	863090-89-5	1.43	279.0 / 85.0	759089		4.824	N/A	N/A	N/A	96.5
74	NFDHA	151772-58-6	1.83	295.0 / 201.0	538402		4.358	0.734	0.681	Pass	87.2
75	NFDHA_2	151772-58-6	1.83	295.0 / 84.9	395400		4.523	0.734	0.681	Pass	90.5
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	N/A	333.2 / 312.1	N/A		N/A	N/A	N/A	N/A	N/A
79	13C2-PFOA	Surr	N/A	415.0 / 370.0	N/A		N/A	N/A	N/A	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.58	217.0 / 172.0	1600646		10.870	NA	NA	NA	108.7

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.16	268.0 / 223.0	716261		4.876	NA	NA	NA	97.5
	13C5-PFHxA	EIS	1.90	318.0 / 273.0	354529		2.567	NA	NA	NA	102.7
	13C4-PFHpA	EIS	2.48	367.0 / 322.0	340550		2.556	NA	NA	NA	102.2
	13C8-PFOA	EIS	2.98	420.8 / 376.0	630136		2.665	NA	NA	NA	106.6
	13C9-PFNA	EIS	3.43	472.0 / 427.0	248884		1.246	NA	NA	NA	99.7
	13C6-PFDA	EIS	3.85	519.0 / 474.0	254671		1.166	NA	NA	NA	93.3
	13C7-PFUnA	EIS	4.25	570.0 / 525.0	242800		1.007	NA	NA	NA	80.6

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.64	615.1 / 570.0	245296		1.012	NA	NA	NA	80.9
	13C2-PFTeDA	EIS	5.39	715.1 / 670.1	181674		1.155	NA	NA	NA	92.4
	13C3-PFBS	EIS	1.90	302.1 / 80.1	337890		2.367	NA	NA	NA	101.6
	13C3-PFHxS	EIS	3.08	402.1 / 80.1	308615		2.432	NA	NA	NA	102.6
	13C8-PFOS	EIS	4.00	507.1 / 80.1	308640		2.466	NA	NA	NA	102.7
	13C2-4:2FTS	EIS	1.70	329.1 / 81.1	93291		4.431	NA	NA	NA	94.5
	13C2-6:2FTS	EIS	2.79	429.2 / 81.1	86722		4.784	NA	NA	NA	100.5
	13C2-8:2FTS	EIS	3.67	529.2 / 81.1	81331		4.784	NA	NA	NA	99.7

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C8-PFOSA	EIS	5.24	506.1 / 78.1	436650		2.197	NA	NA	NA	87.9
	d3-NMeFOSA	EIS	5.97	515.2 / 219.0	68413		1.906	NA	NA	NA	76.3
	d5-NEtFOSA	EIS	6.25	531.2 / 219.0	62745		1.923	NA	NA	NA	76.9
	d3-NMeFOSAA	EIS	3.98	573.2 / 419.1	95720		3.915	NA	NA	NA	78.3
	d5-NEtFOSAA	EIS	4.19	589.3 / 419.1	94113		4.721	NA	NA	NA	94.4
	d7-NMeFOSE	EIS	5.82	623.2 / 58.9	551062		21.349	NA	NA	NA	85.4
	d9-NEtFOSE	EIS	6.11	639.2 / 58.9	735683		21.246	NA	NA	NA	85.0

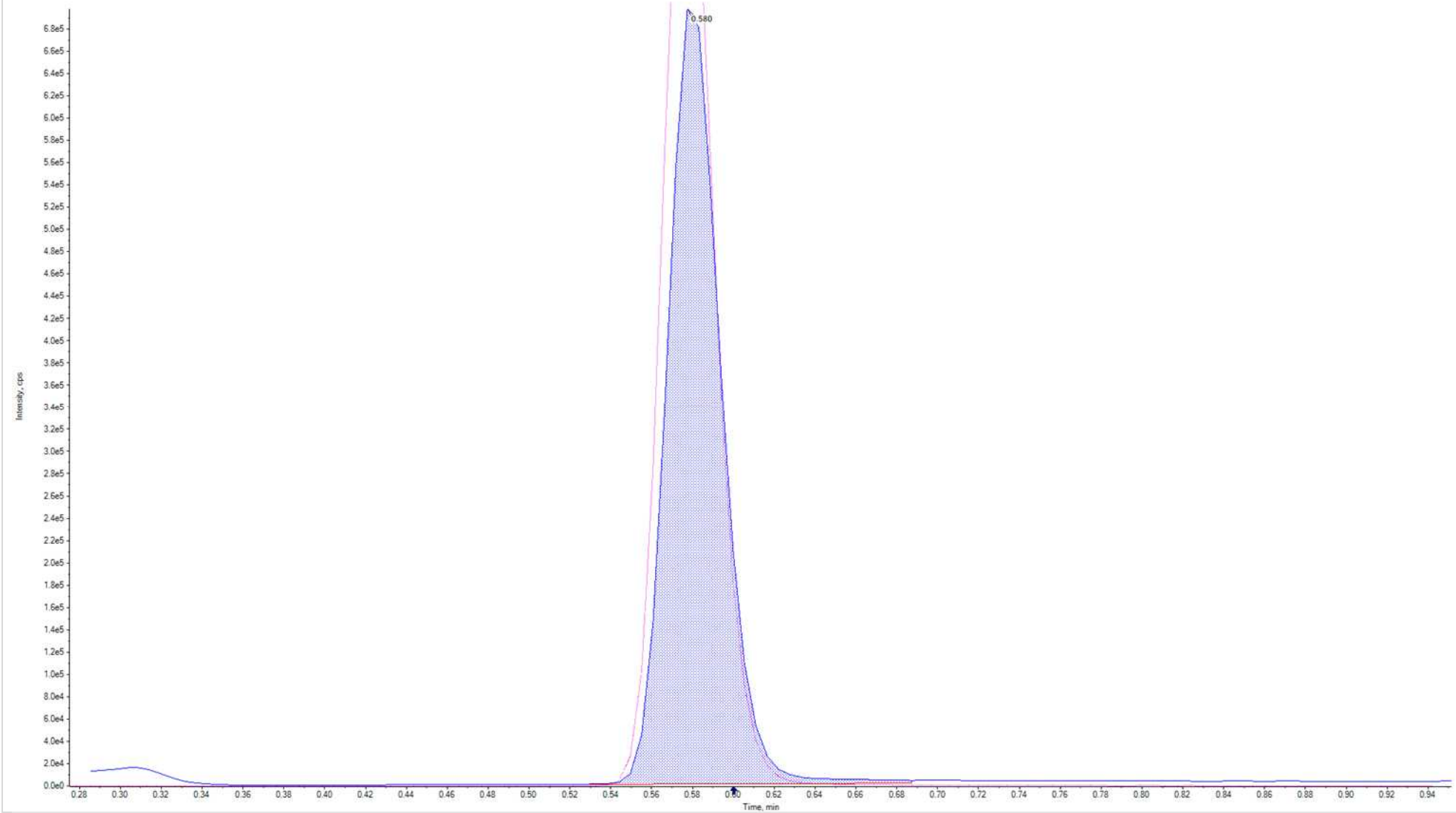
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	13C3-HFPO-DA	EIS	2.12	287.0 / 169.0	1392171		9.529	NA	NA	NA	95.3
	13C3-PFBA	NIS	0.58	216.0 / 172.0	651562		4.496	NA	NA	NA	89.9
	13C2-PFHxA	NIS	1.90	315.0 / 270.0	406723		2.510	NA	NA	NA	100.4
	13C4-PFOA	NIS	2.98	417.0 / 372.0	359393		2.500	NA	NA	NA	100.0
	13C5-PFNA	NIS	3.43	468.0 / 423.0	250230		1.214	NA	NA	NA	97.1
	13C2-PFDA	NIS	3.85	515.1 / 470.1	254908		1.199	NA	NA	NA	95.9
	18O2-PFHxS	NIS	3.08	403.1 / 84.1	266845		2.267	NA	NA	NA	95.6
	13C4-PFOS	NIS	4.00	503.1 / 80.1	251826		2.095	NA	NA	NA	87.3

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

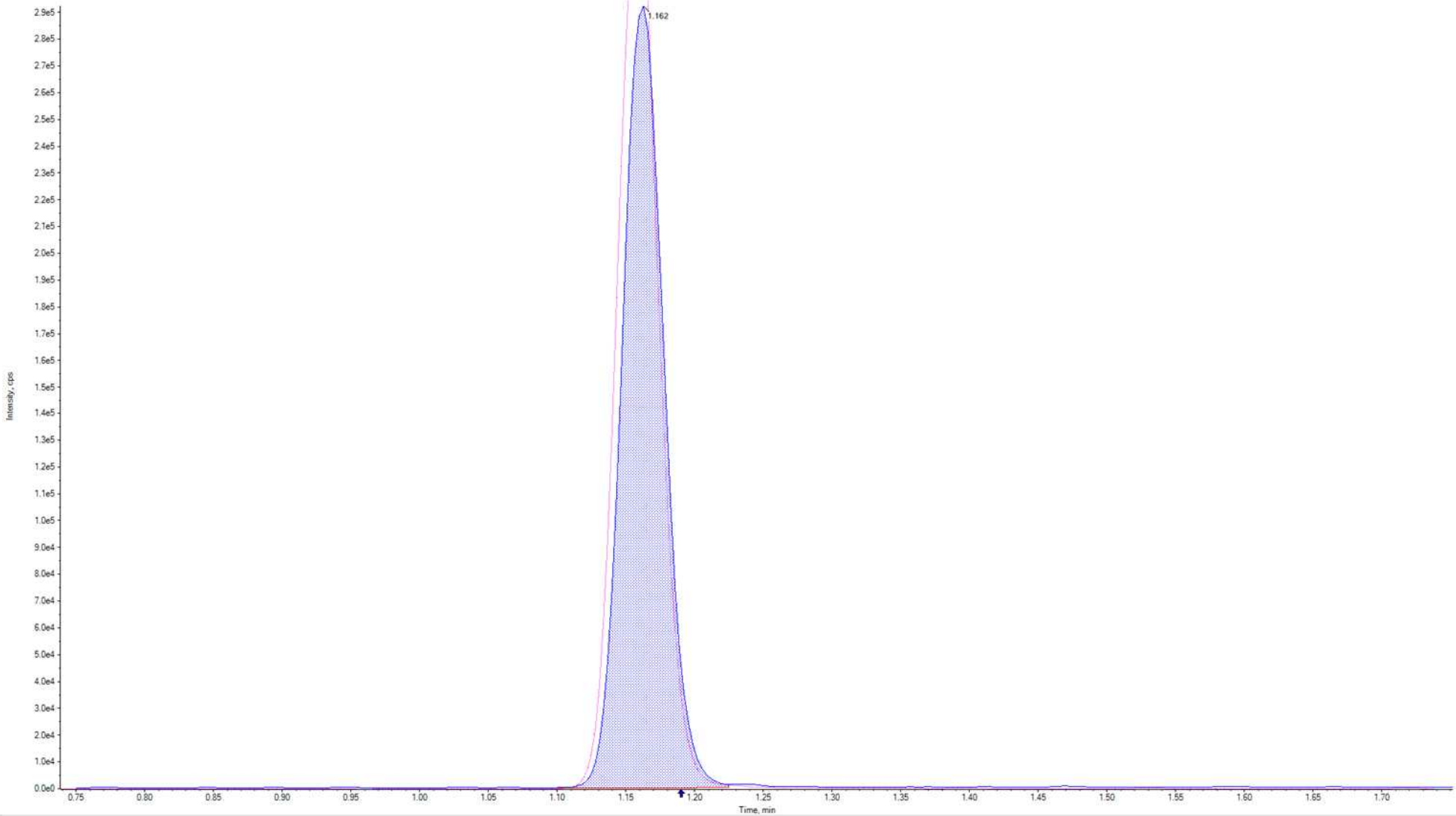
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PFBA
Sample: WG2038443-3R S/N:1220.0 Points Across peak:34



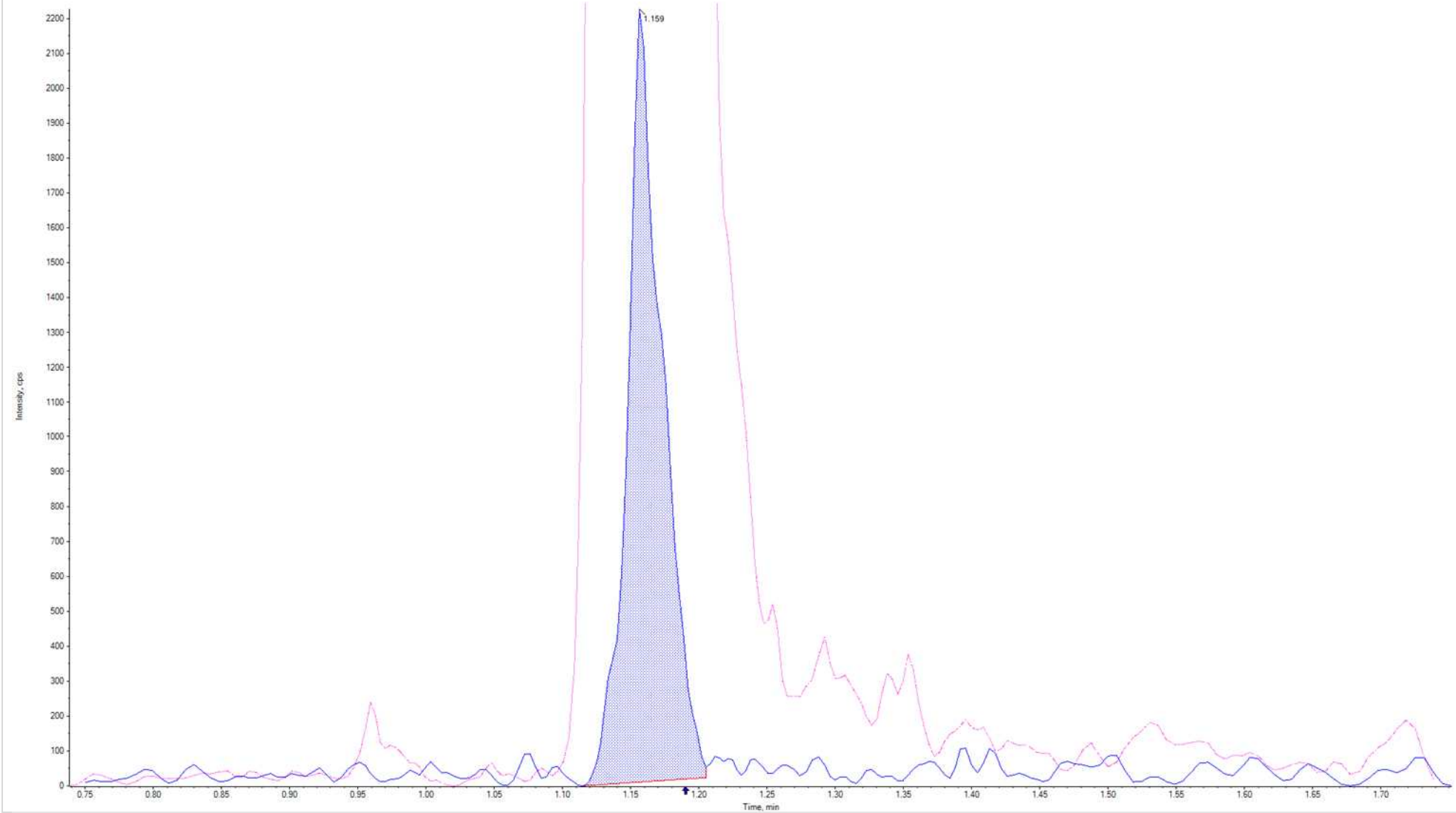
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PFPeA
Sample: WG2038443-3R S/N:3441.8 Points Across peak:42



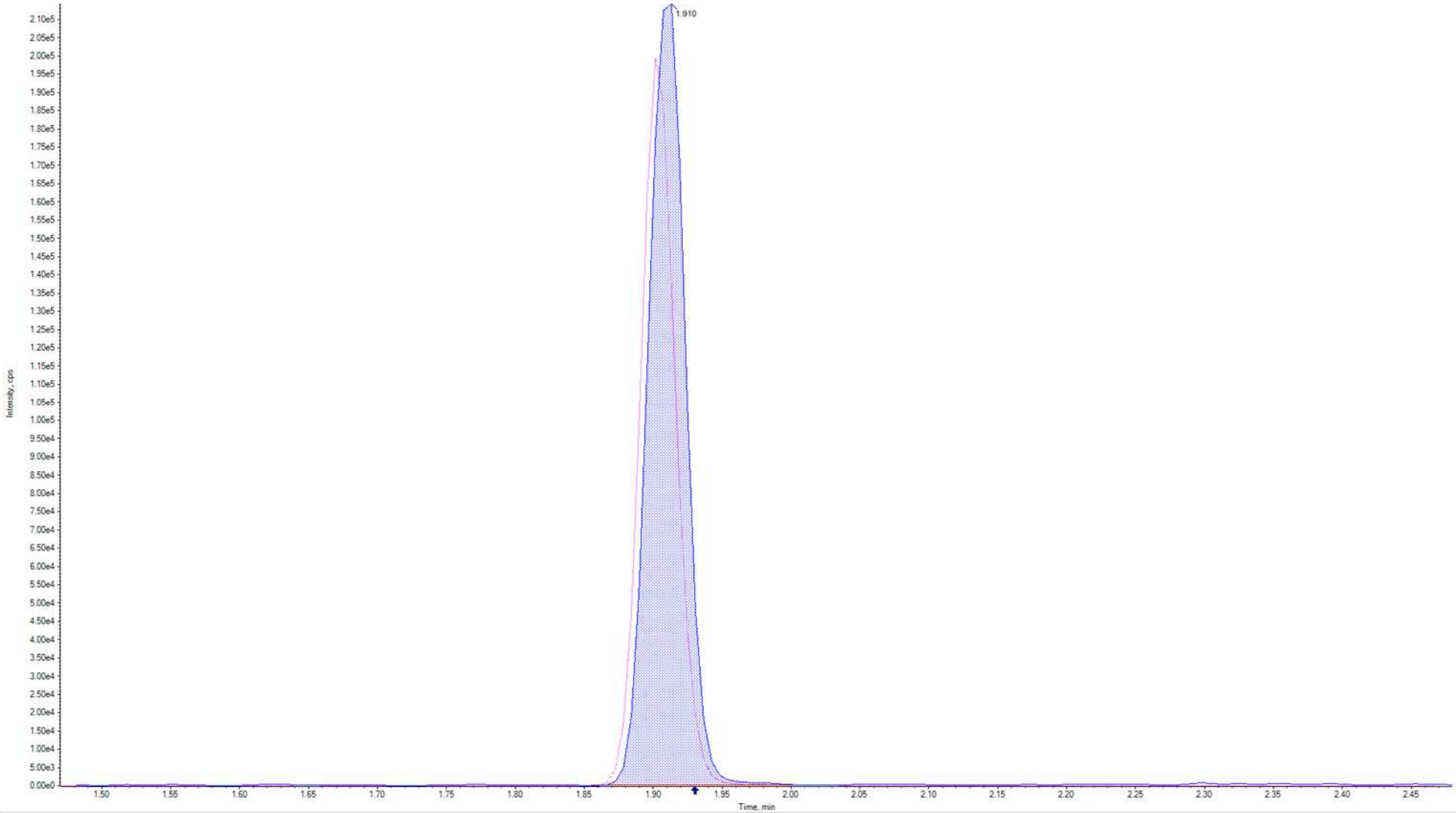
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PFPeA_2
Sample: WG2038443-3R S/N:133.3 Points Across peak:30



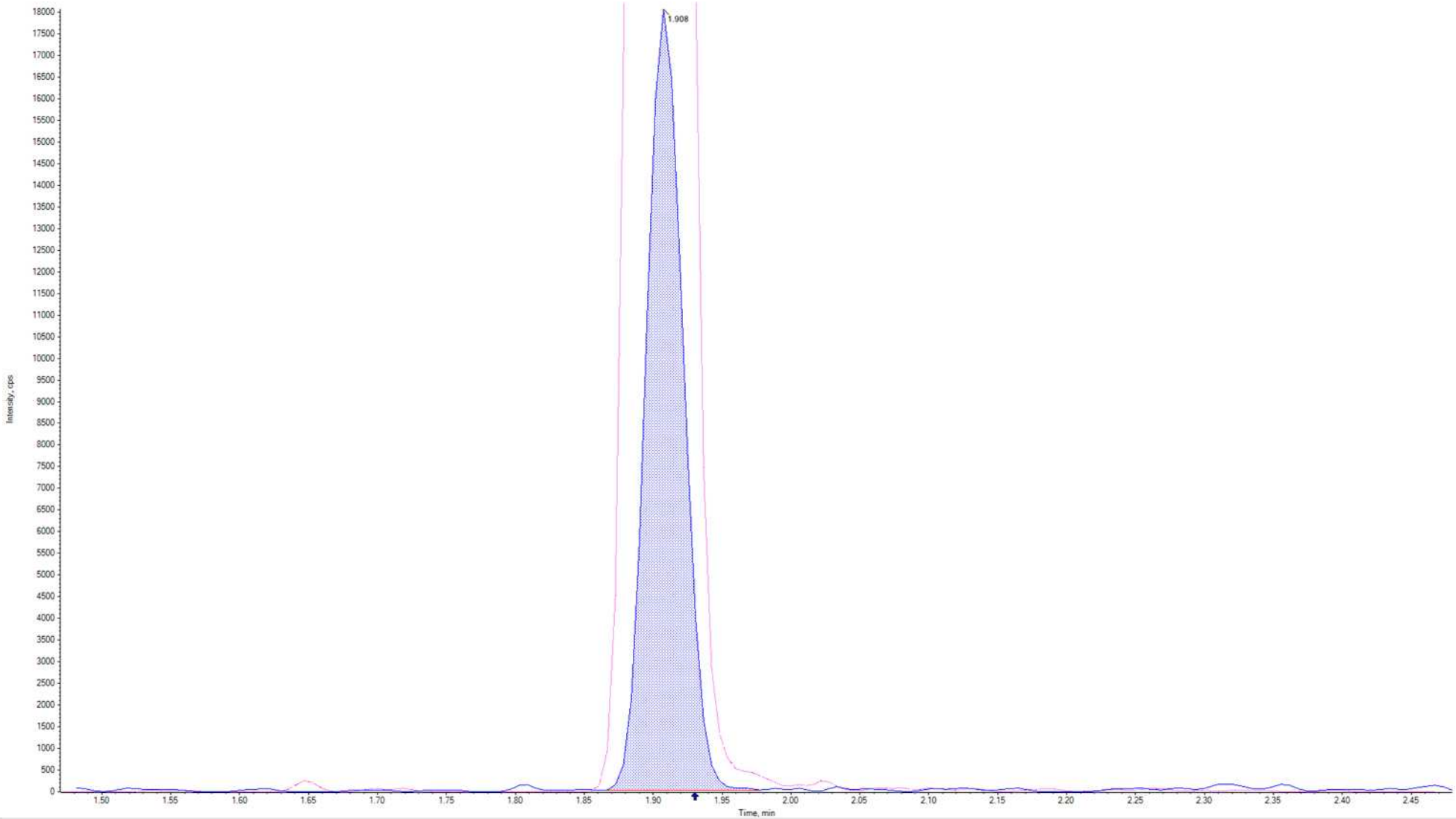
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PFHxA
Sample: WG2038443-3R S/N:4169.2 Points Across peak:27



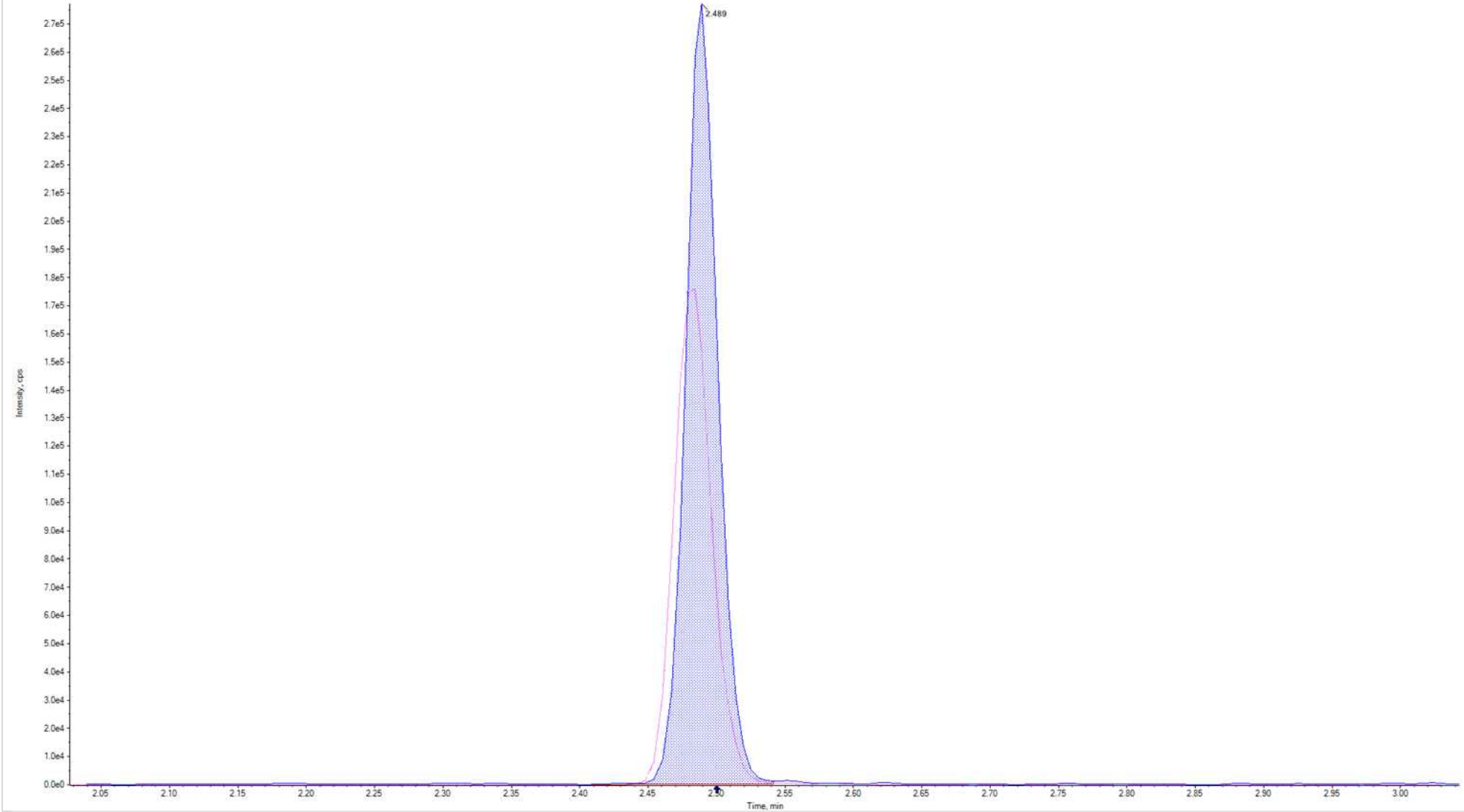
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PFHxA_2
Sample: WG2038443-3R S/N:452.0 Points Across peak:21



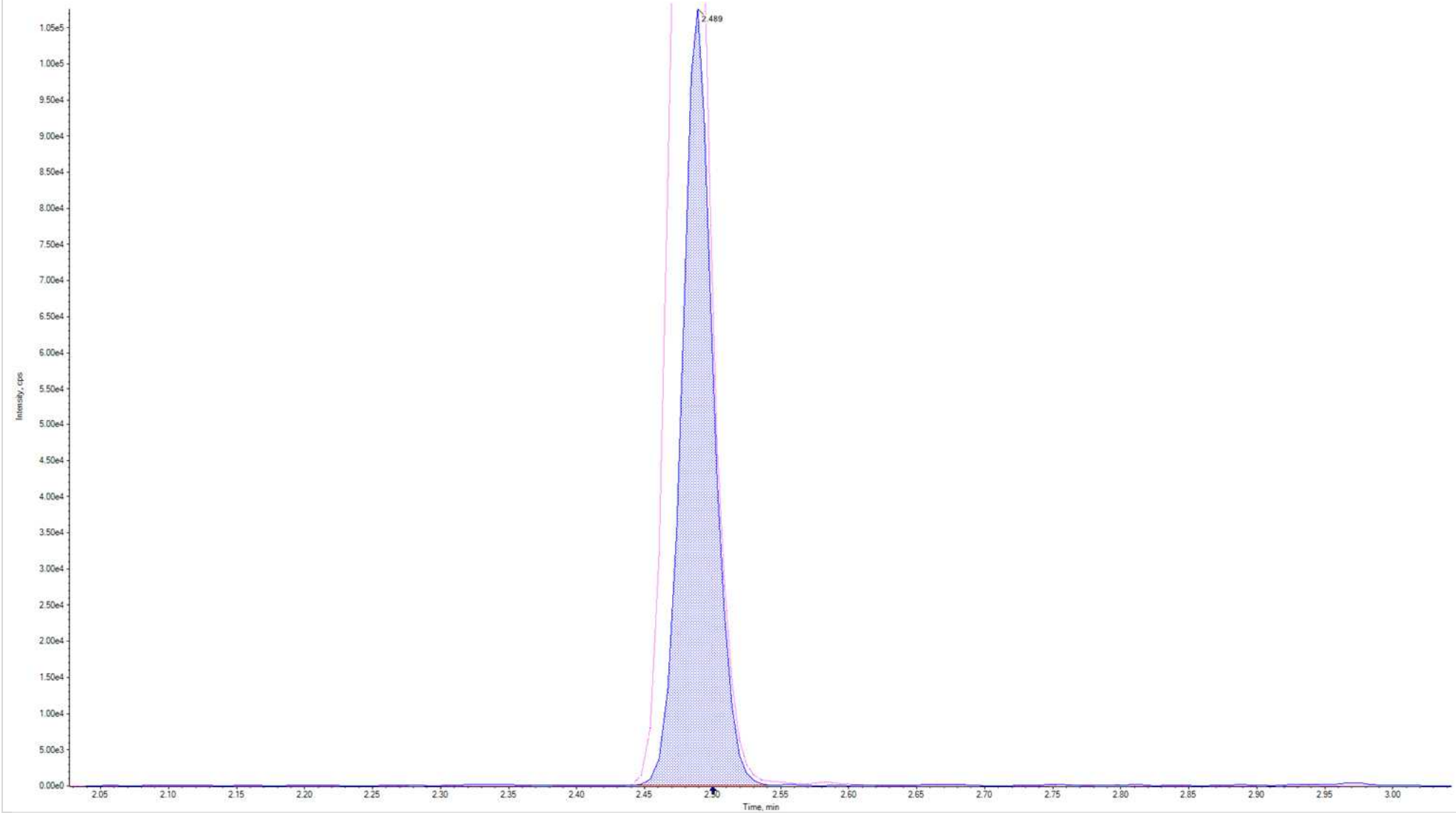
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PFHpA
Sample: WG2038443-3R S/N:5553.4 Points Across peak:25



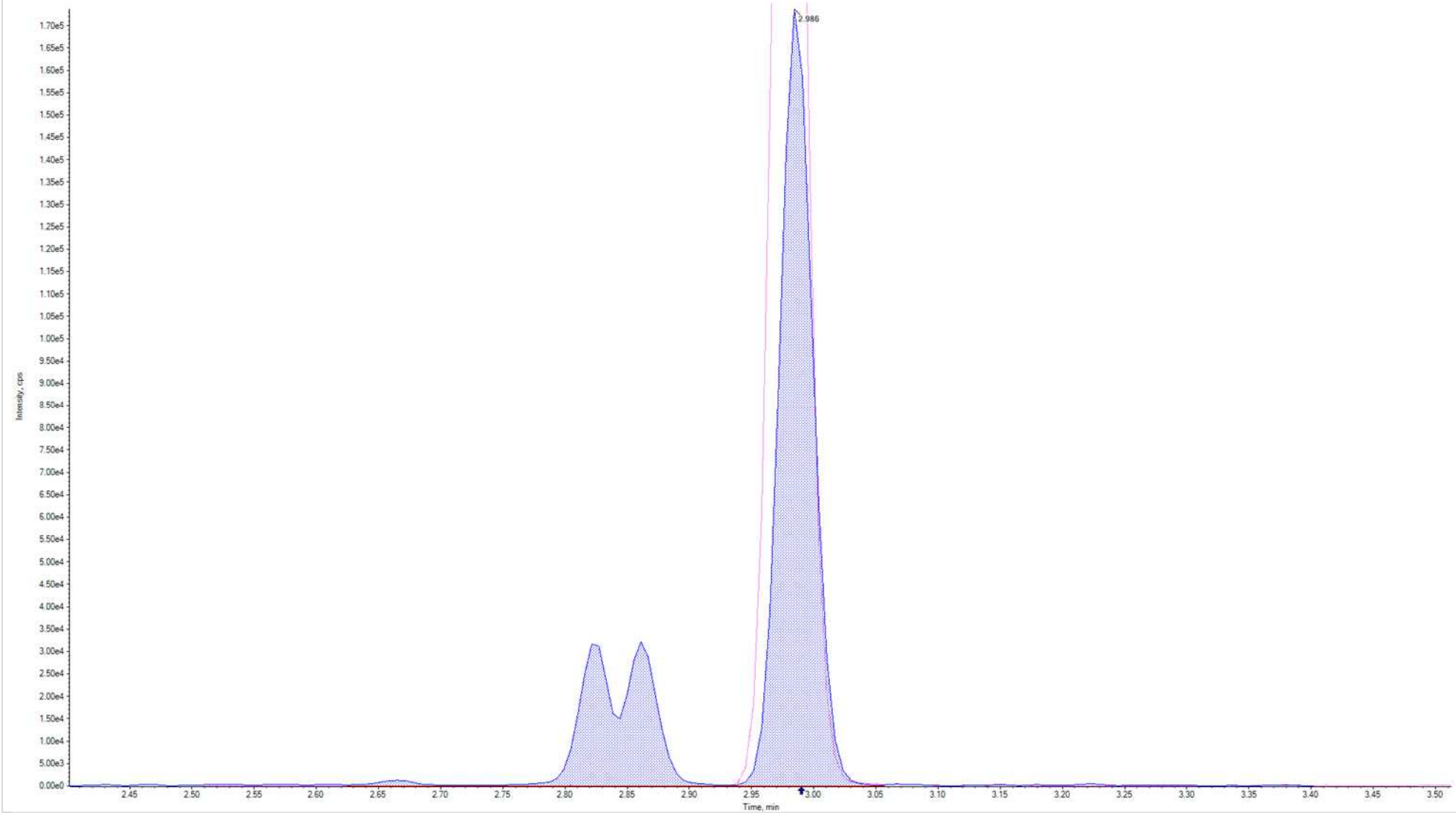
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PFHpA_2
Sample: WG2038443-3R S/N:2155.7 Points Across peak:19



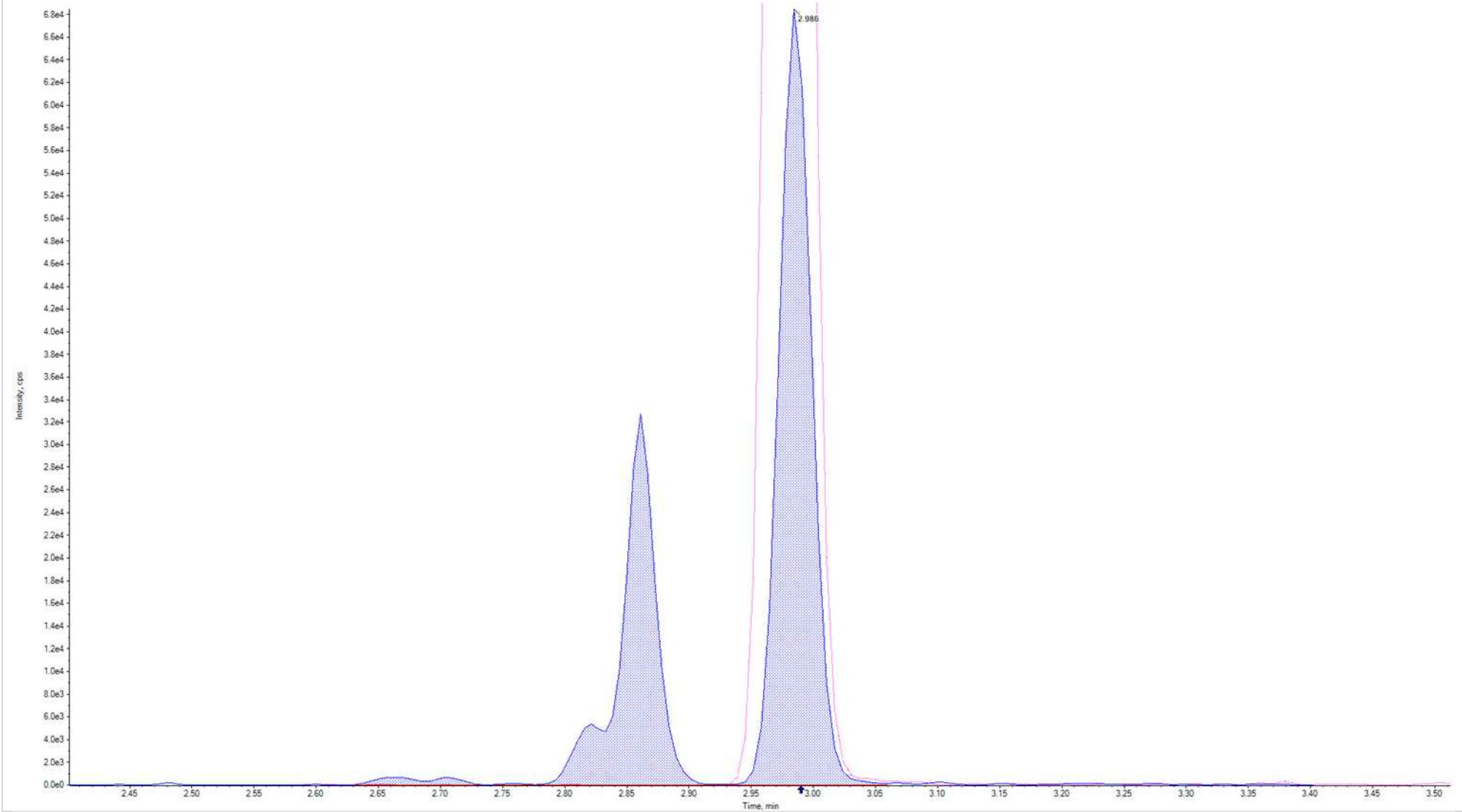
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PFOA
Sample: WG2038443-3R S/N:560.6 Points Across peak:72



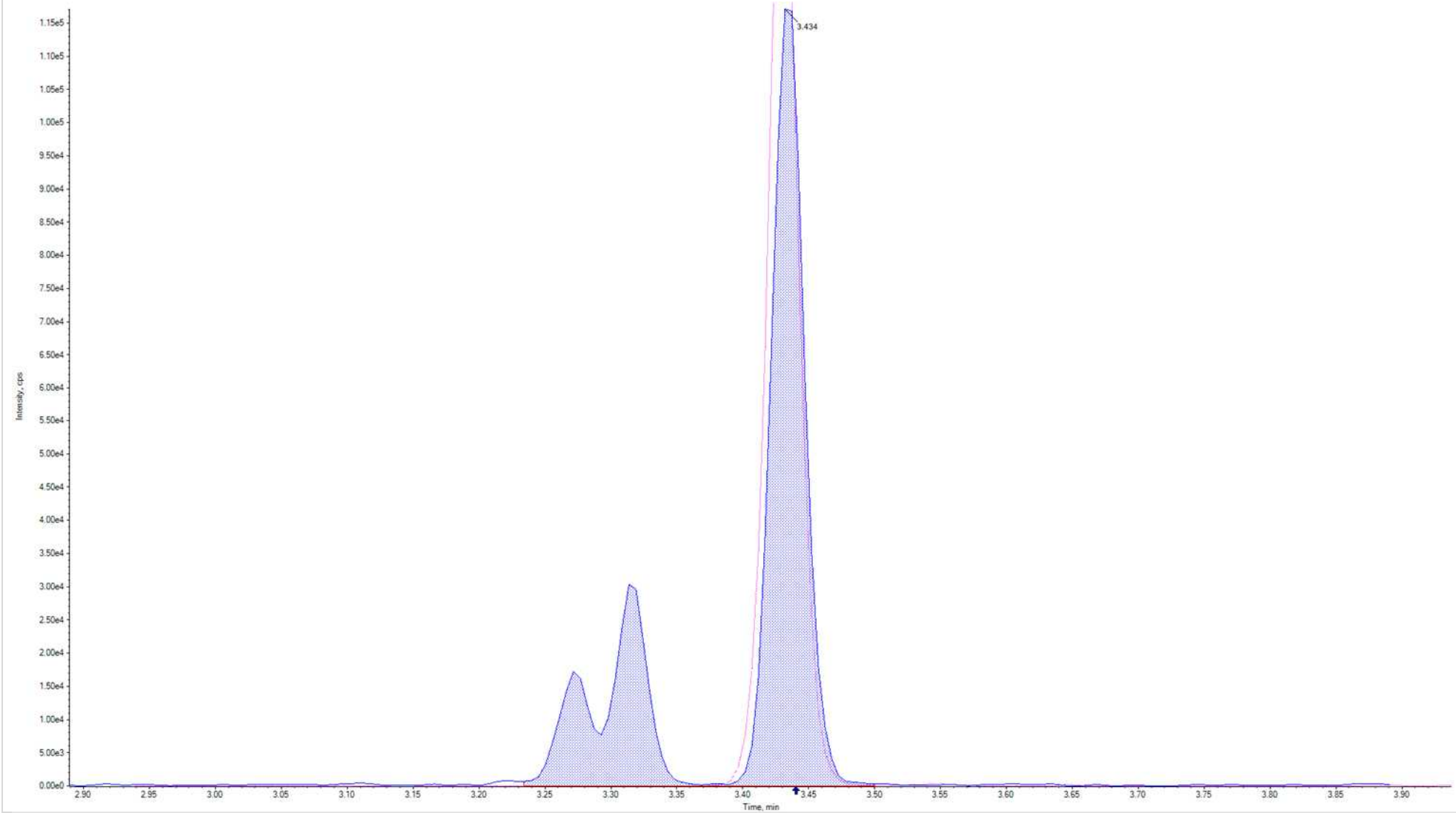
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PFOA_2
Sample: WG2038443-3R S/N:476.6 Points Across peak:72



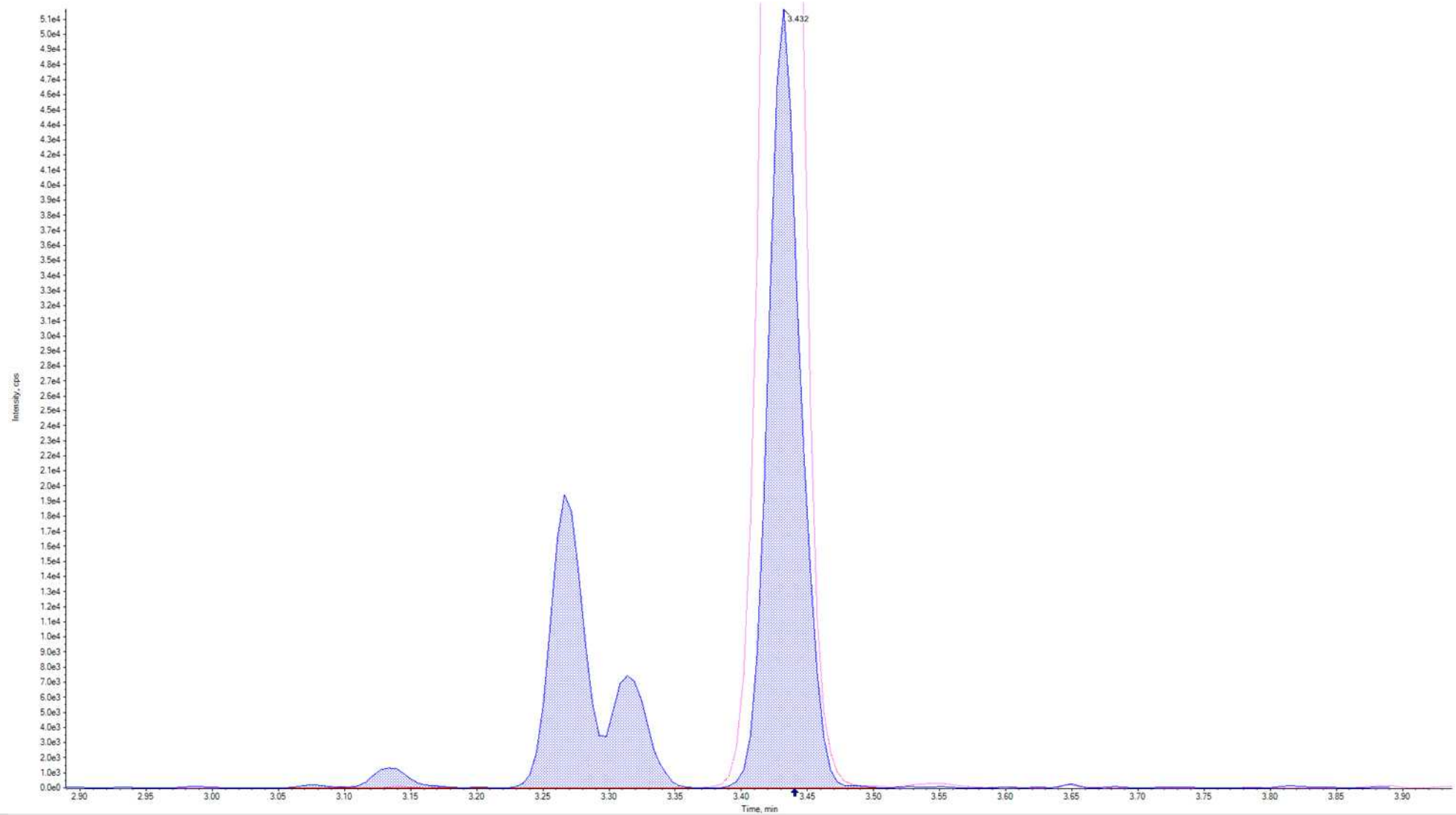
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PFNA
Sample: WG2038443-3R S/N:498.6 Points Across peak:53



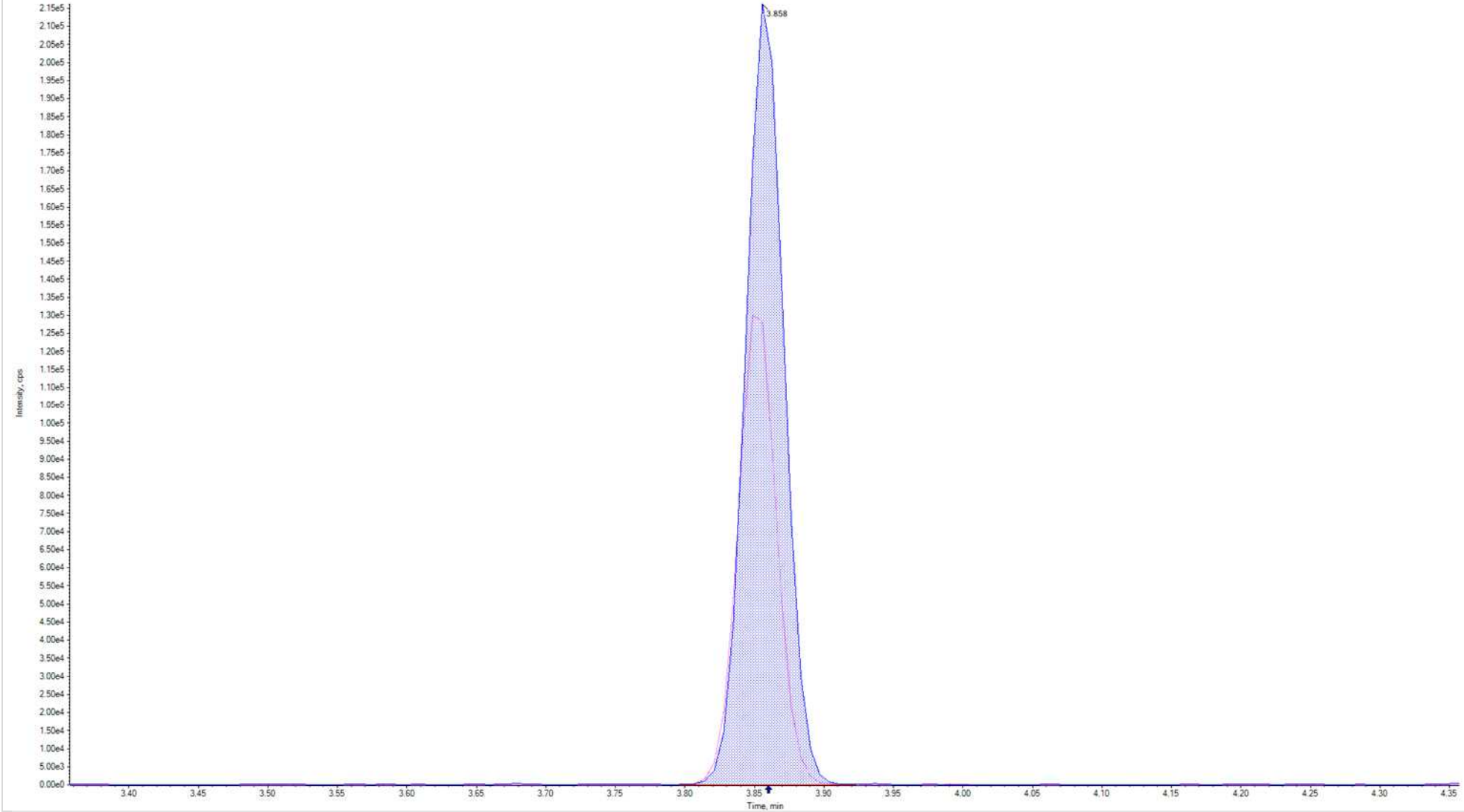
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PFNA_2
Sample: WG2038443-3R S/N:430.5 Points Across peak:86



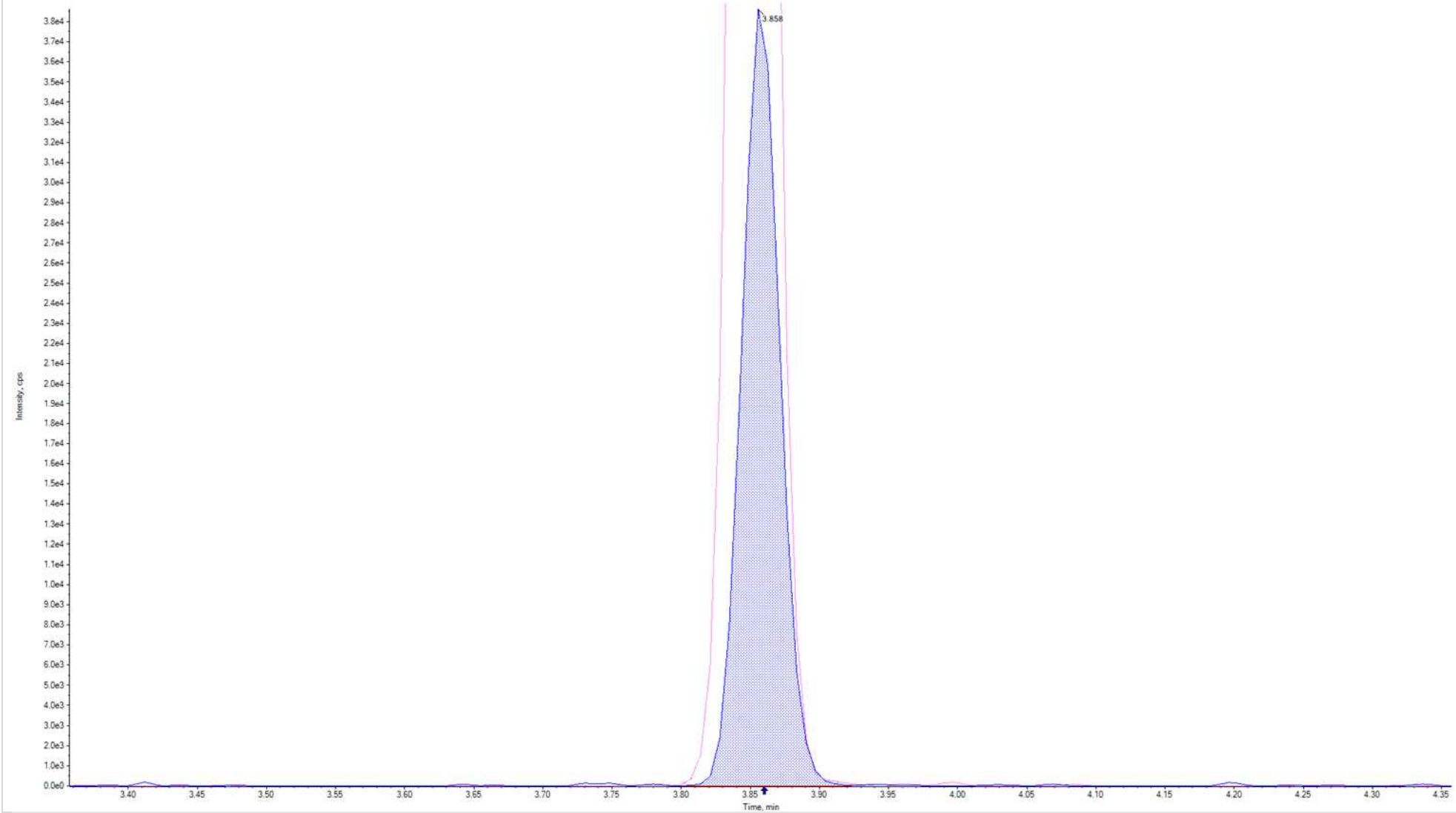
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PFDA
Sample: WG2038443-3R S/N:4334.5 Points Across peak:20



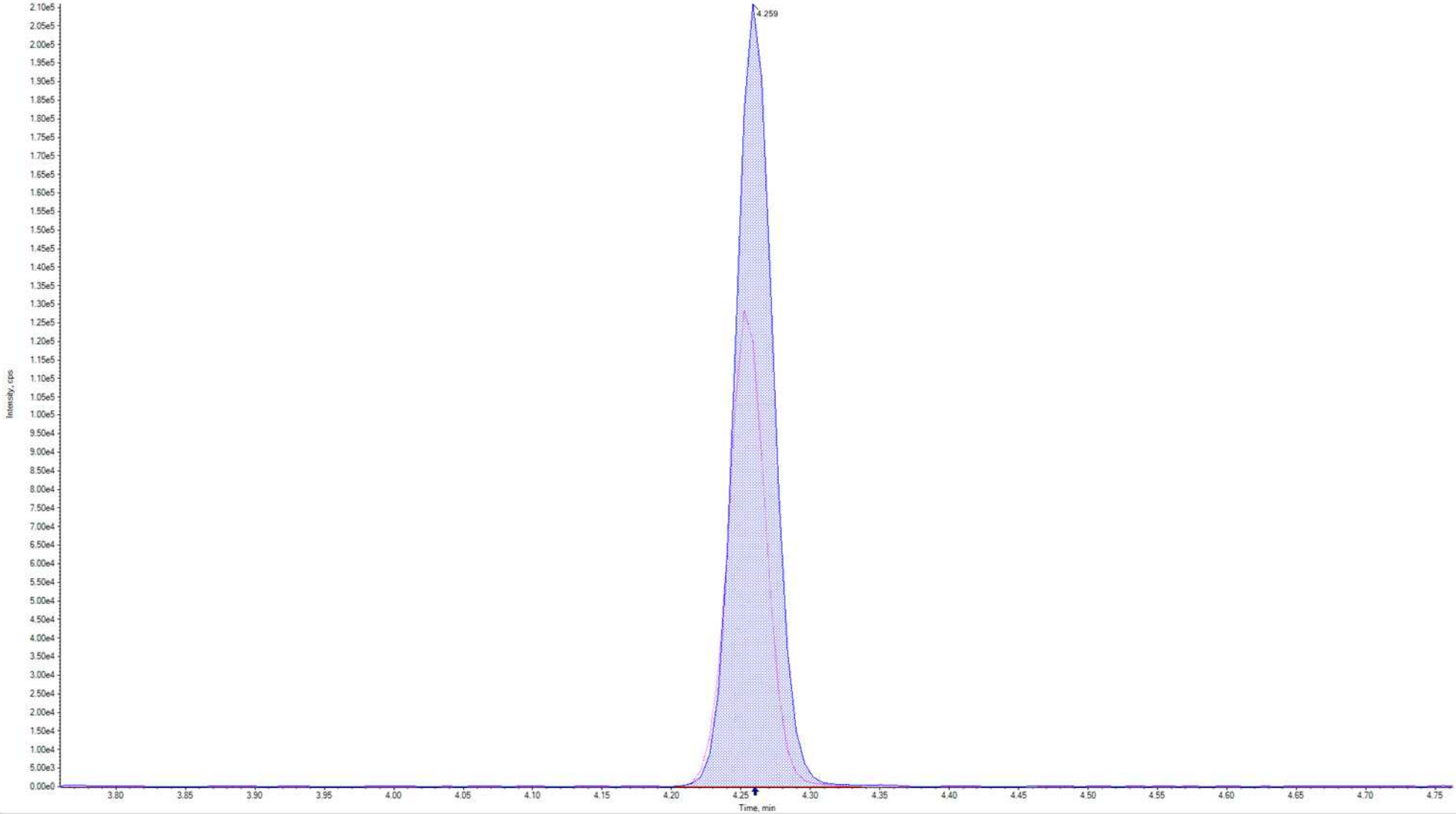
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PFDA_2
Sample: WG2038443-3R S/N:774.4 Points Across peak:19



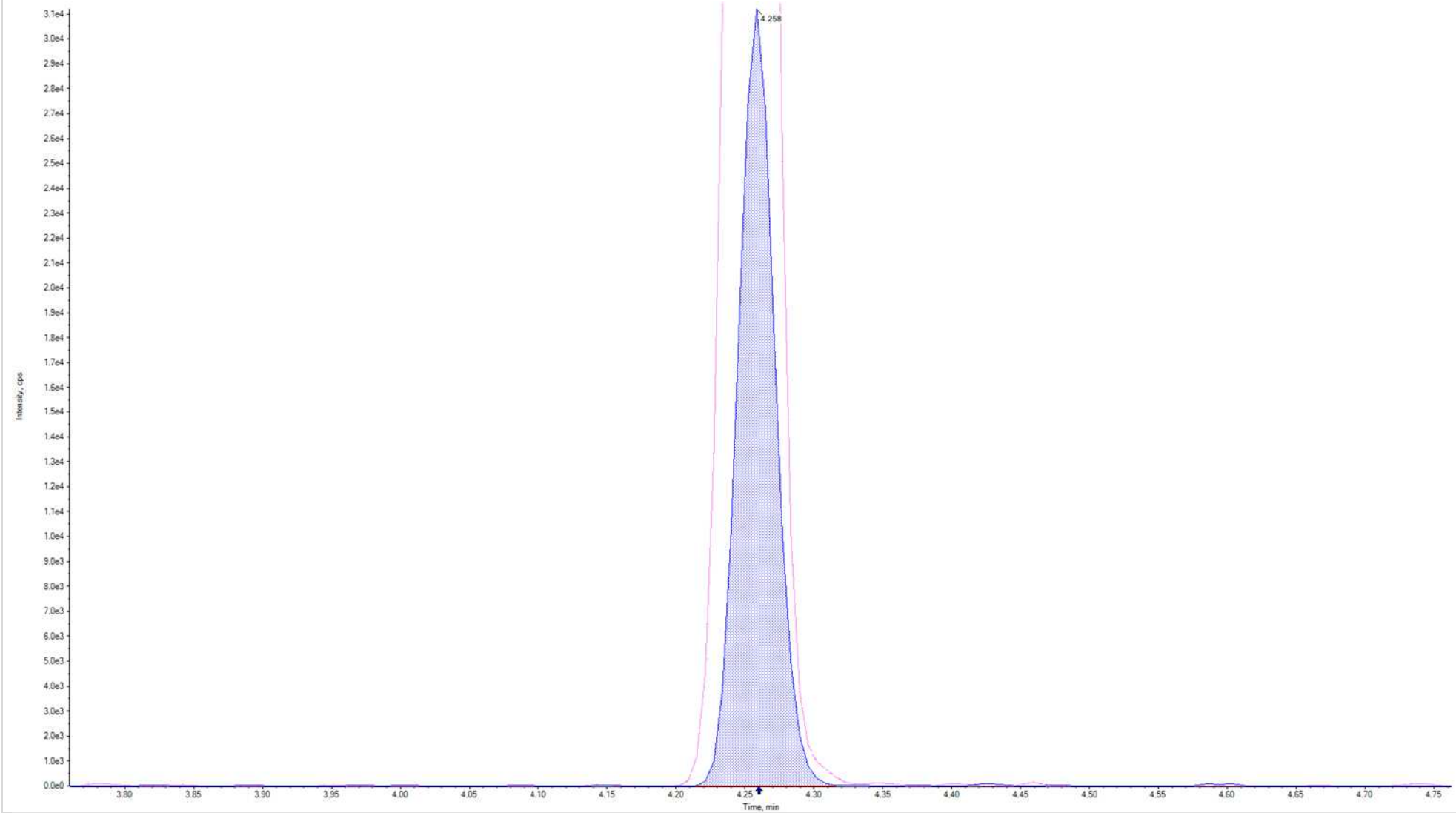
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PFUnA
Sample: WG2038443-3R S/N:4757.8 Points Across peak:23



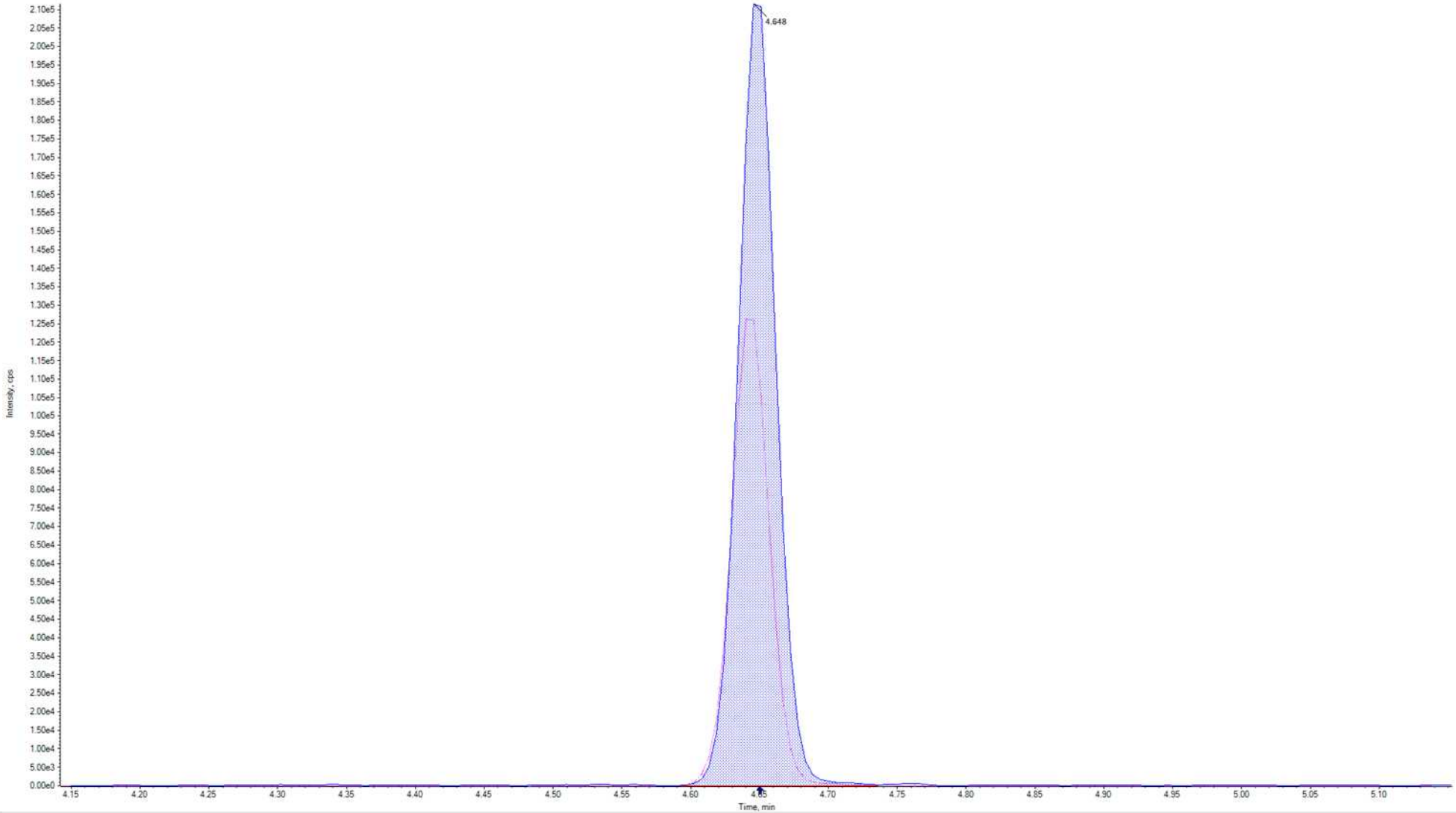
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PFUnA_2
Sample: WG2038443-3R S/N:703.7 Points Across peak:20



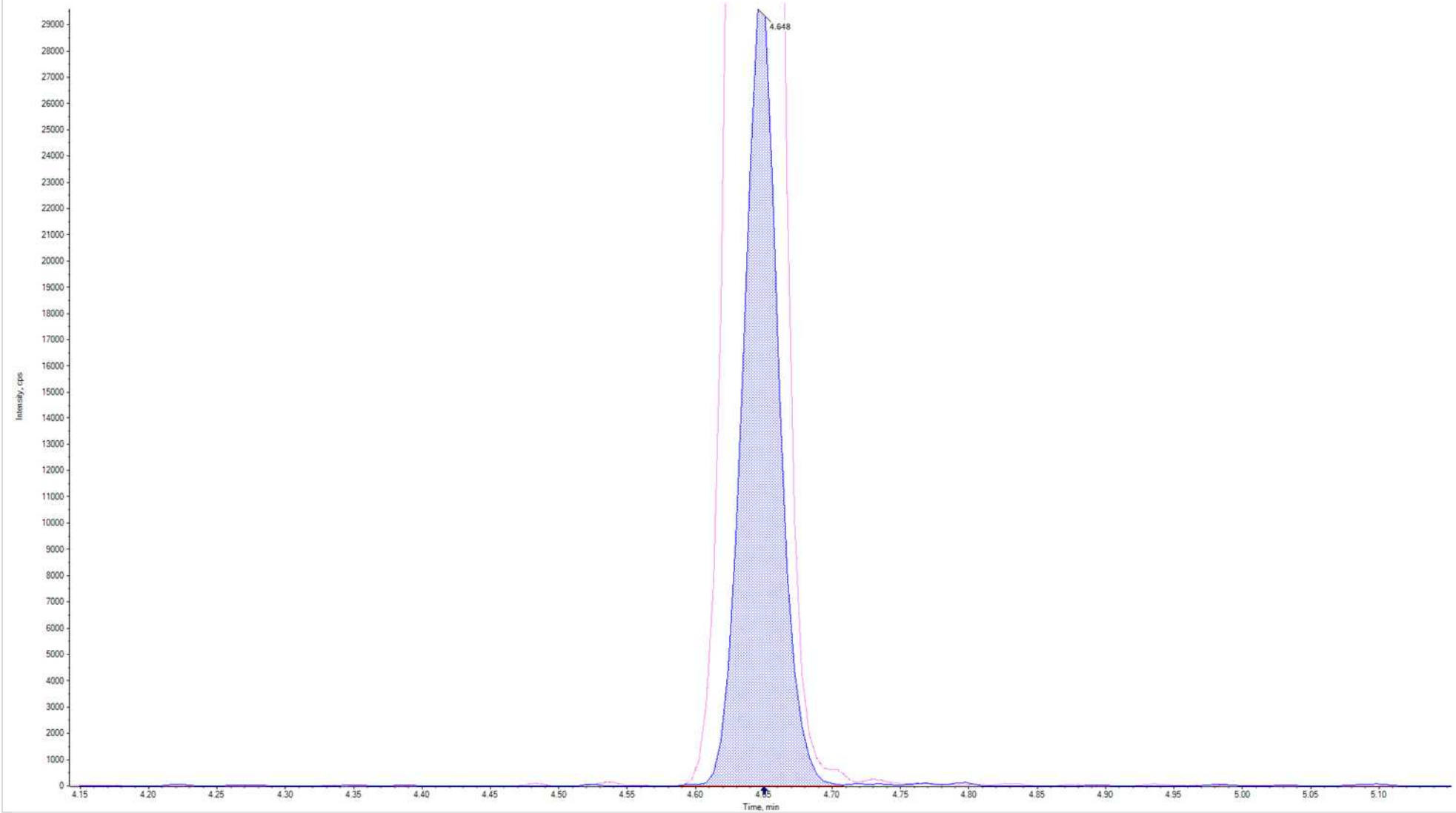
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFDoA
Sample: WG2038443-3R S/N:5831.0 Points Across peak:30



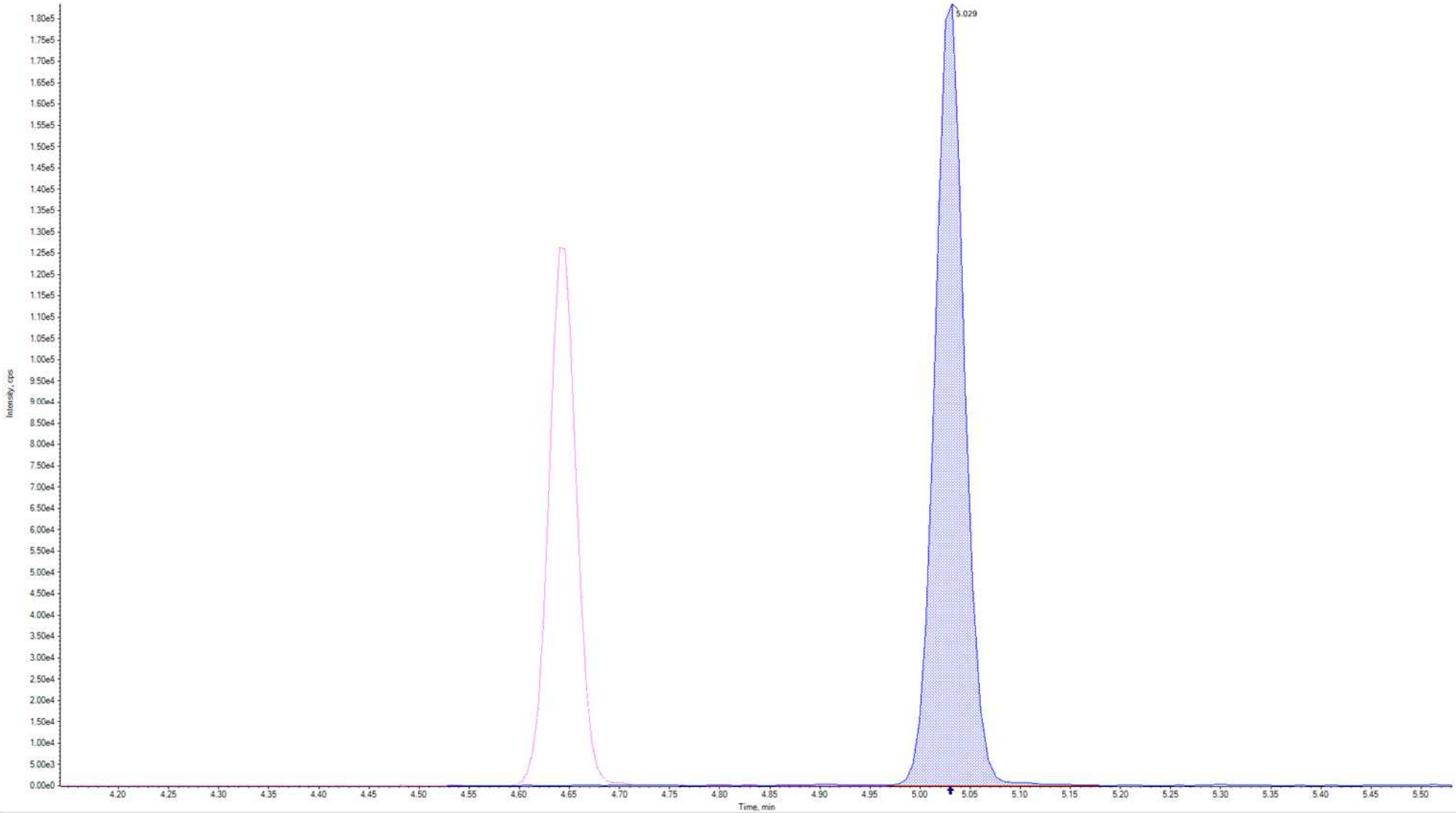
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

PFDoA_2
Sample: WG2038443-3R S/N:816.1 Points Across peak:29



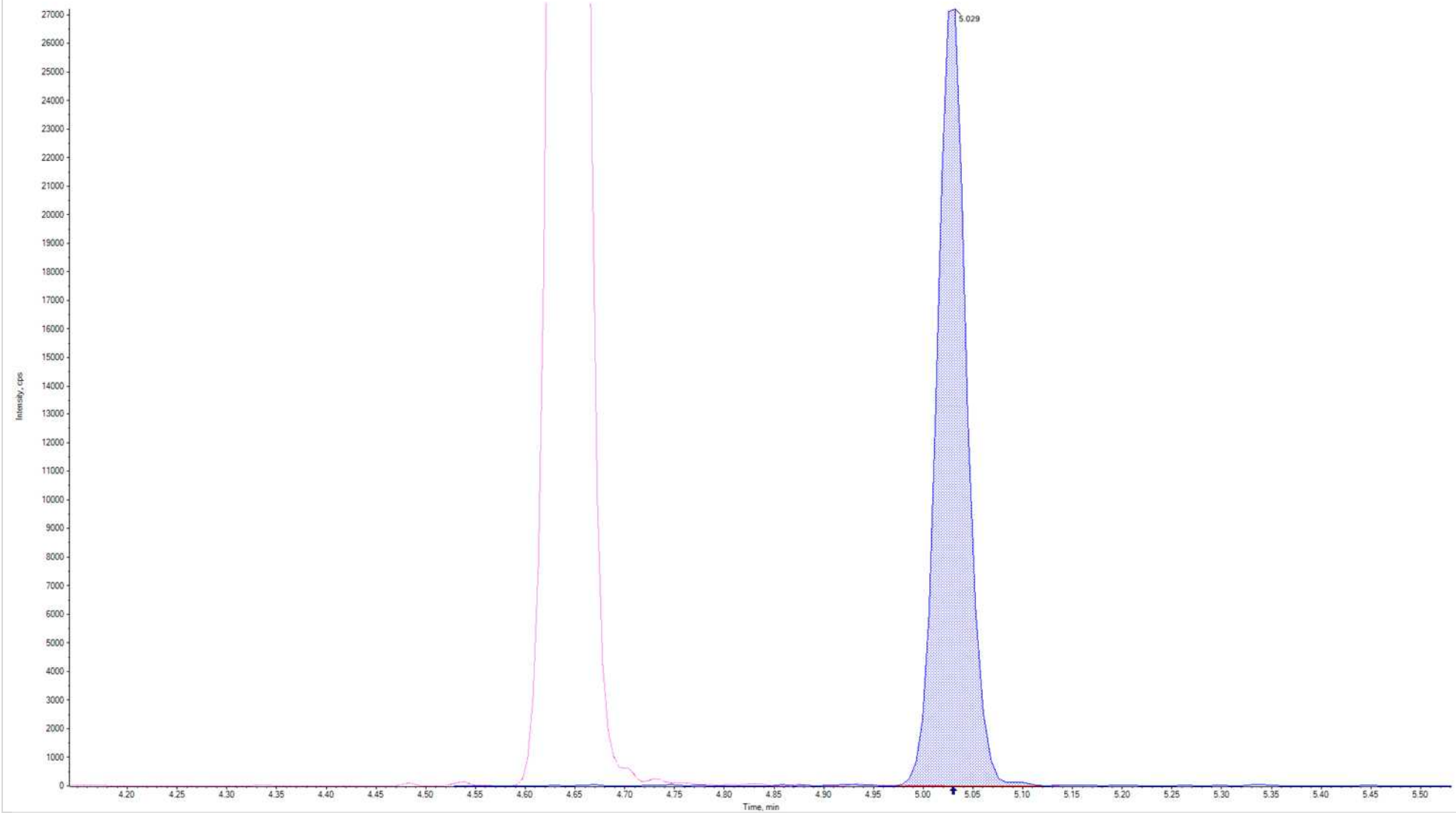
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
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PFTrDA
Sample: WG2038443-3R S/N:3594.3 Points Across peak:35



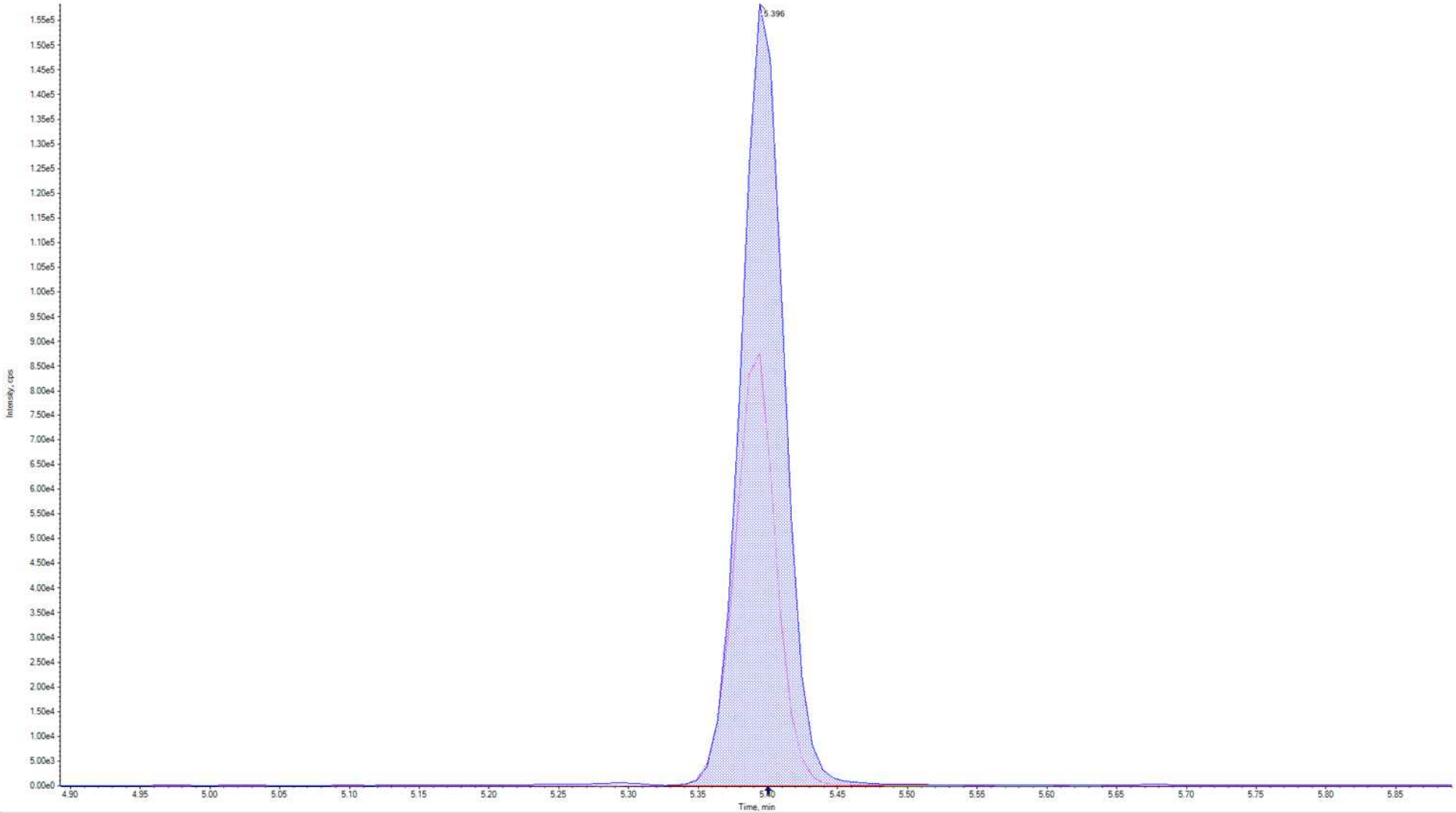
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Alpha Analytical LLC
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PFTrDA_2
Sample: WG2038443-3R S/N:1090.6 Points Across peak:23



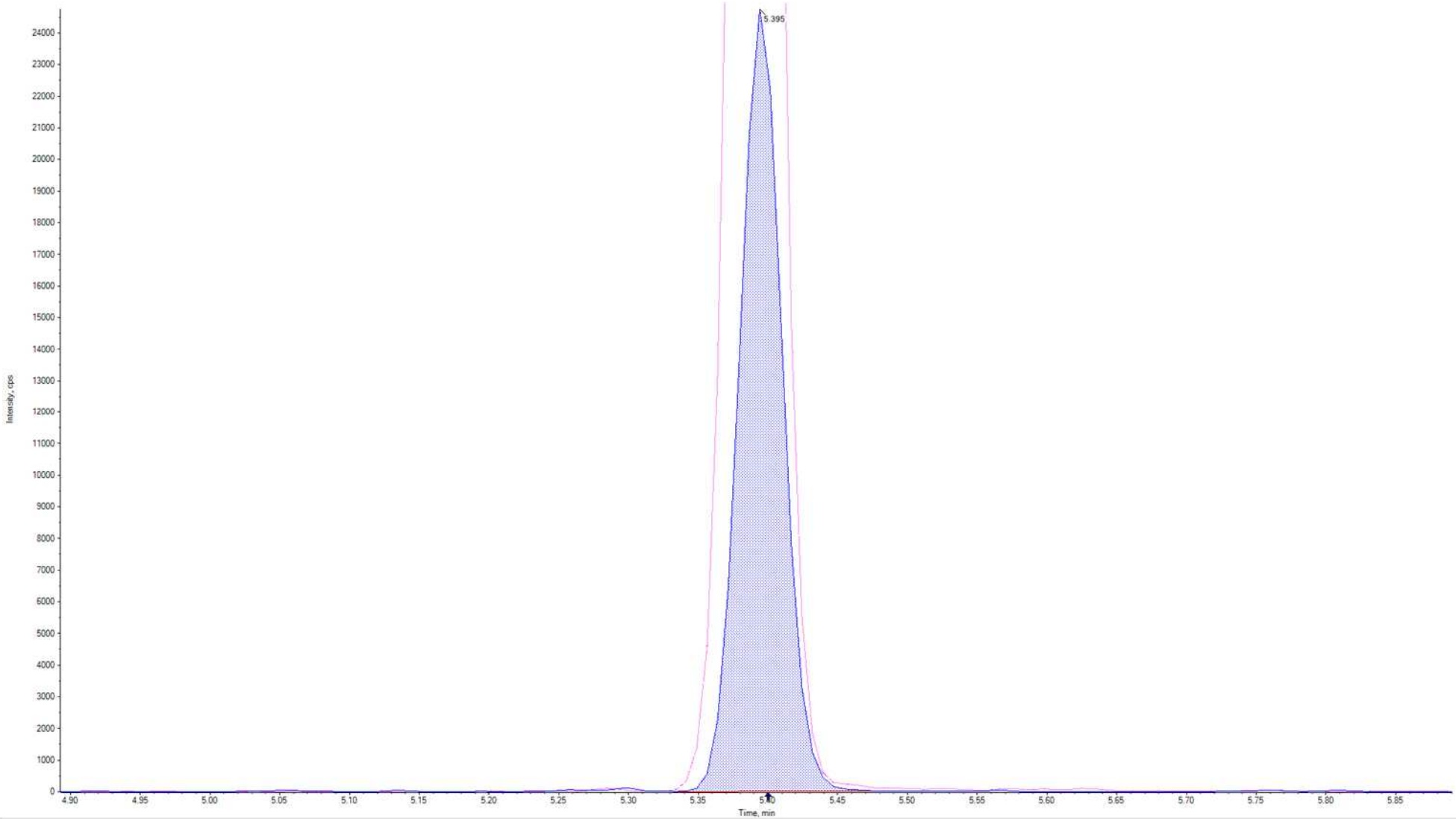
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Alpha Analytical LLC
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PFTeDA
Sample: WG2038443-3R S/N:2451.6 Points Across peak:25



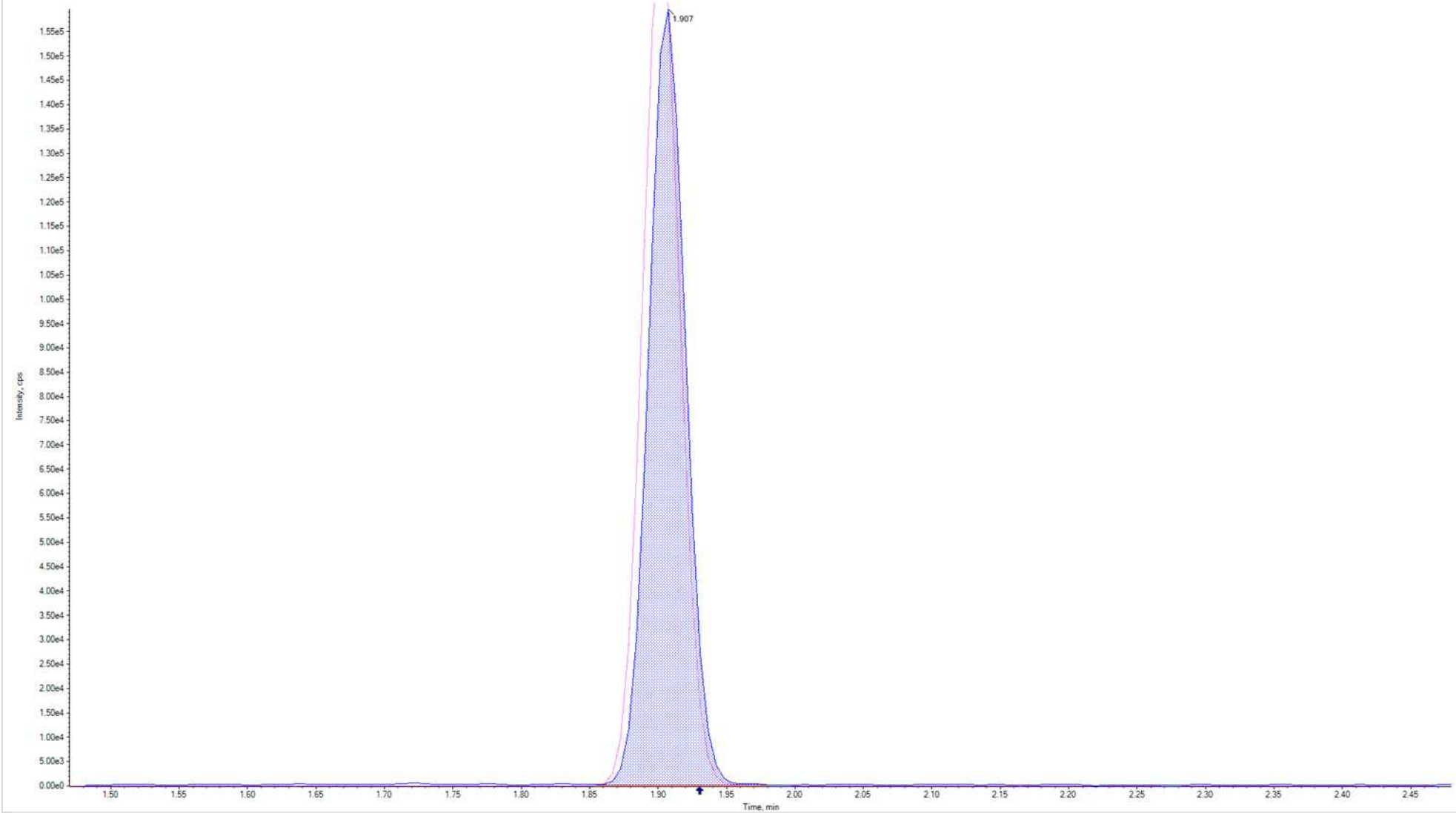
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Alpha Analytical LLC
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PFTeDA_2
Sample: WG2038443-3R S/N:1141.2 Points Across peak:20



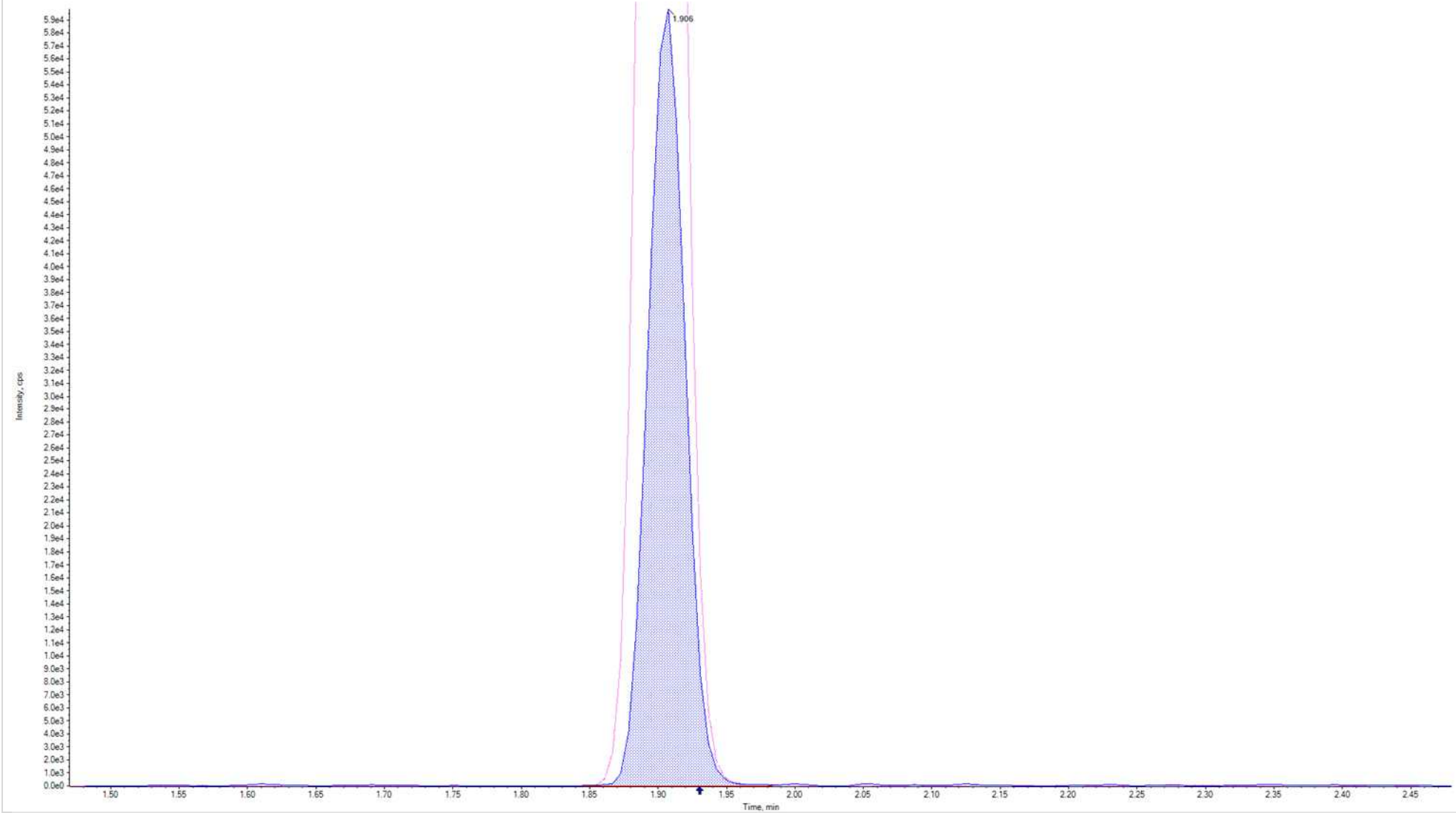
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Alpha Analytical LLC
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PFBS
Sample: WG2038443-3R S/N:2138.4 Points Across peak:25



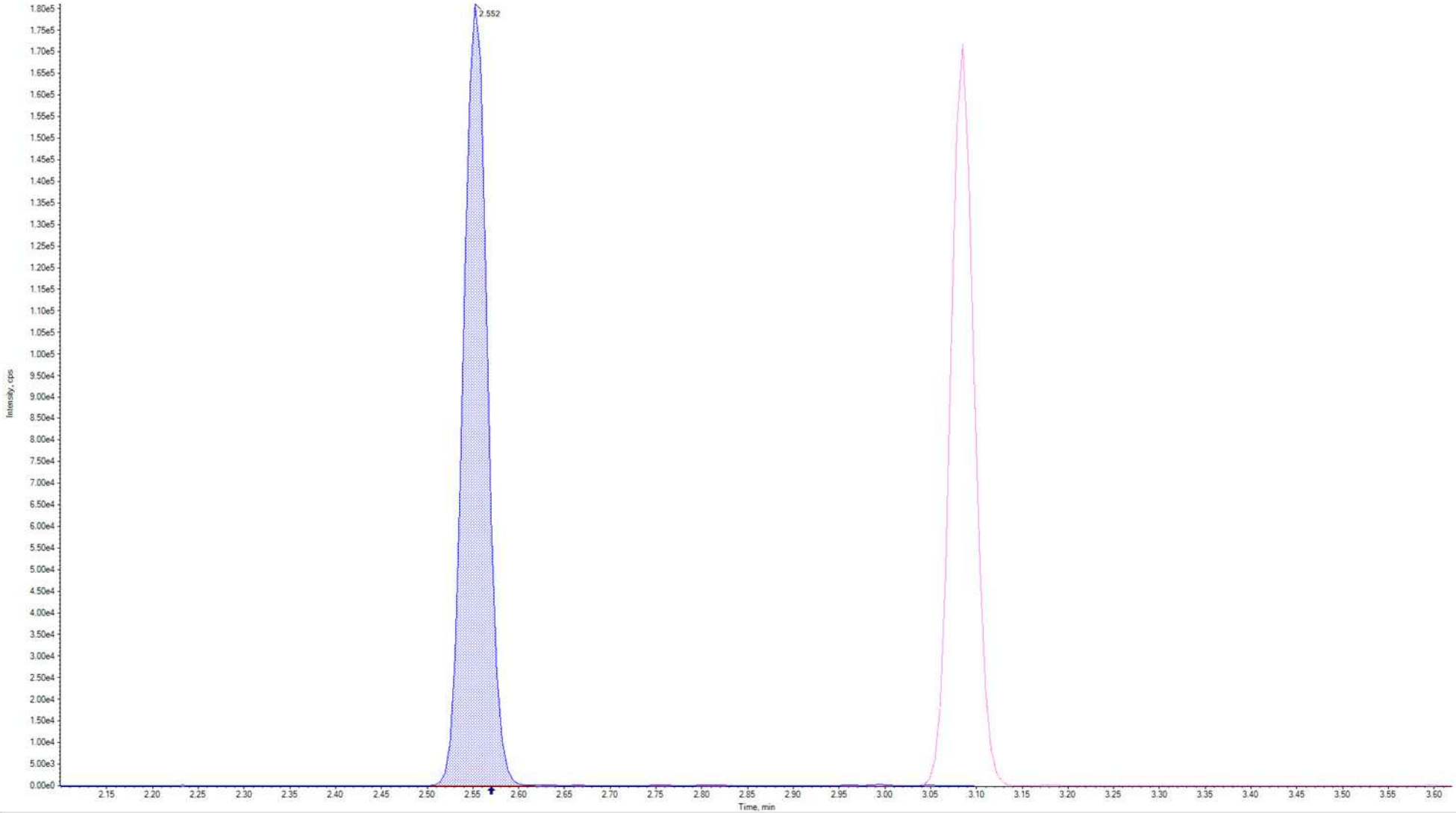
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFBS_2
Sample: WG2038443-3R S/N:1499.8 Points Across peak:28



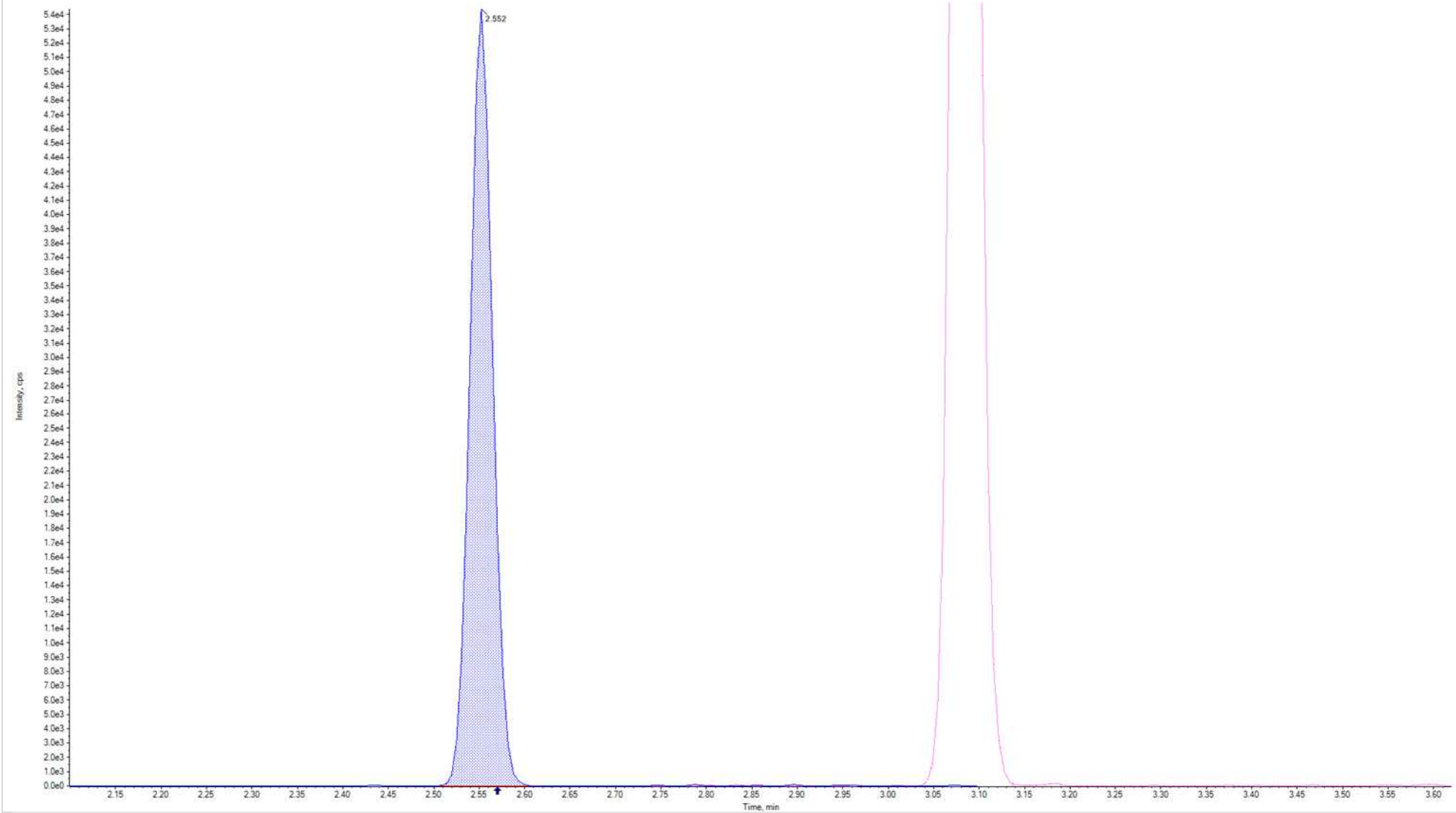
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFPeS
Sample: WG2038443-3R S/N:2603.2 Points Across peak:25



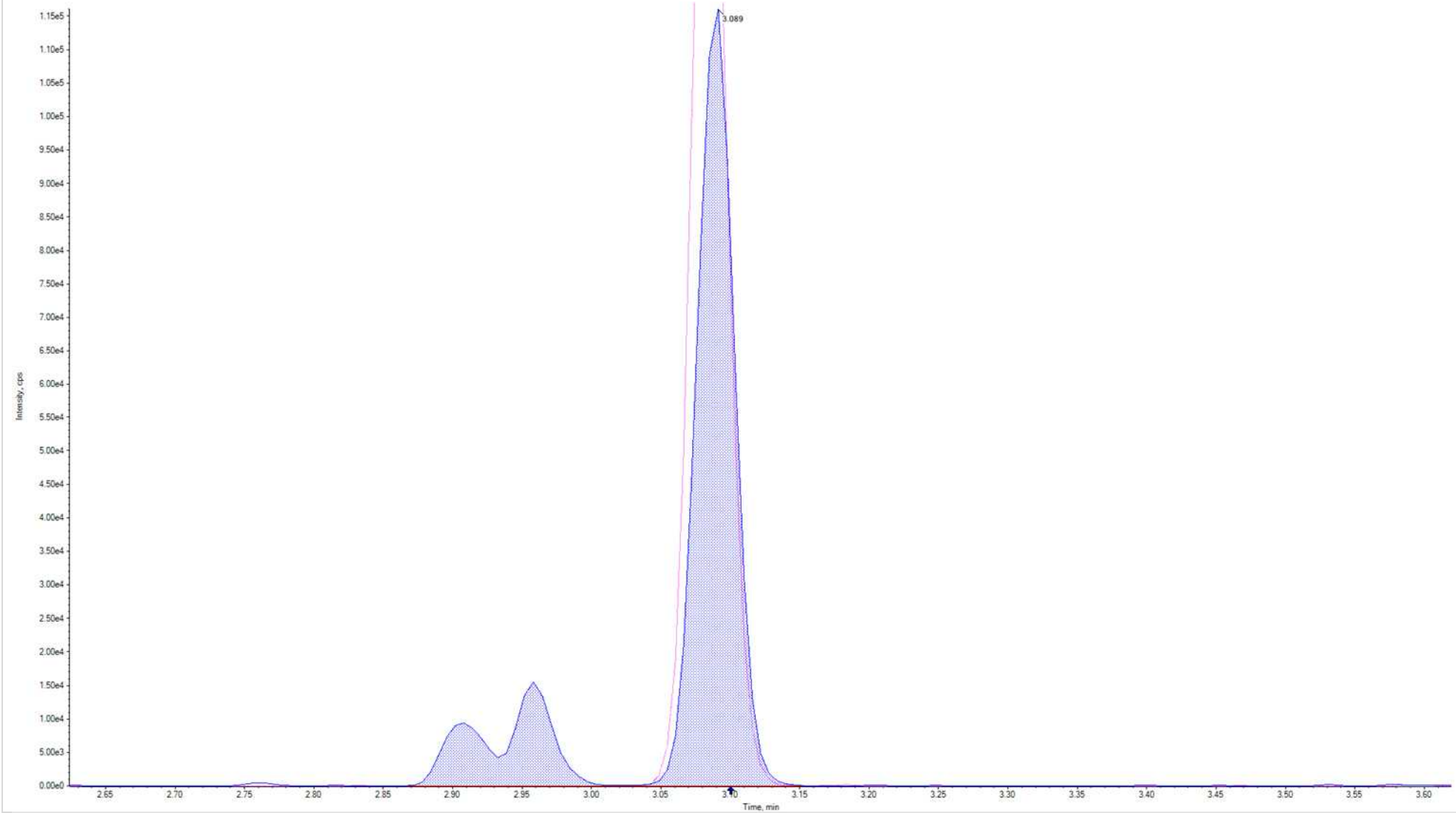
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFPeS_2
Sample: WG2038443-3R S/N:1090.5 Points Across peak:30



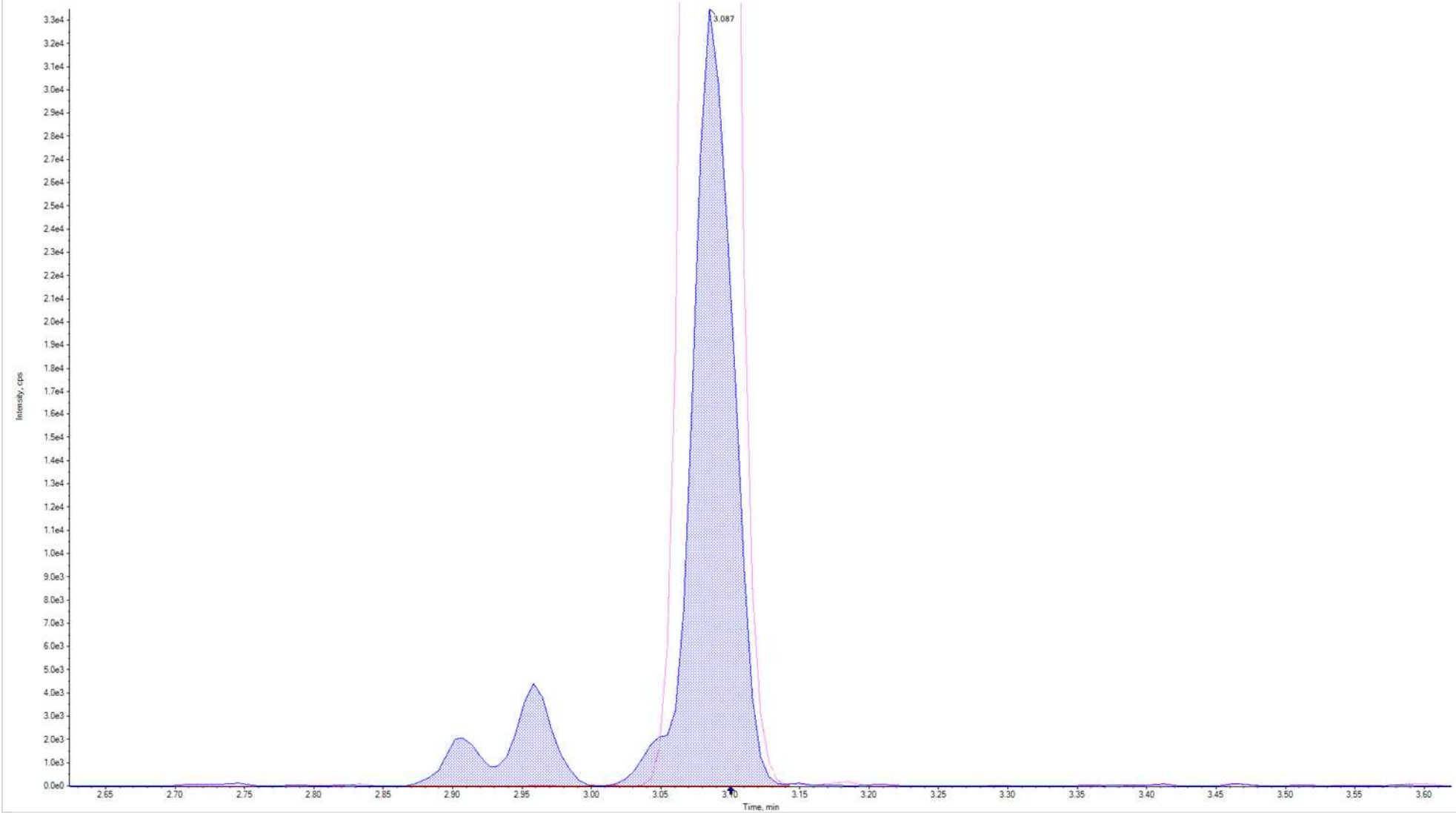
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Alpha Analytical LLC
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PFHxS
Sample: WG2038443-3R S/N:865.4 Points Across peak:52



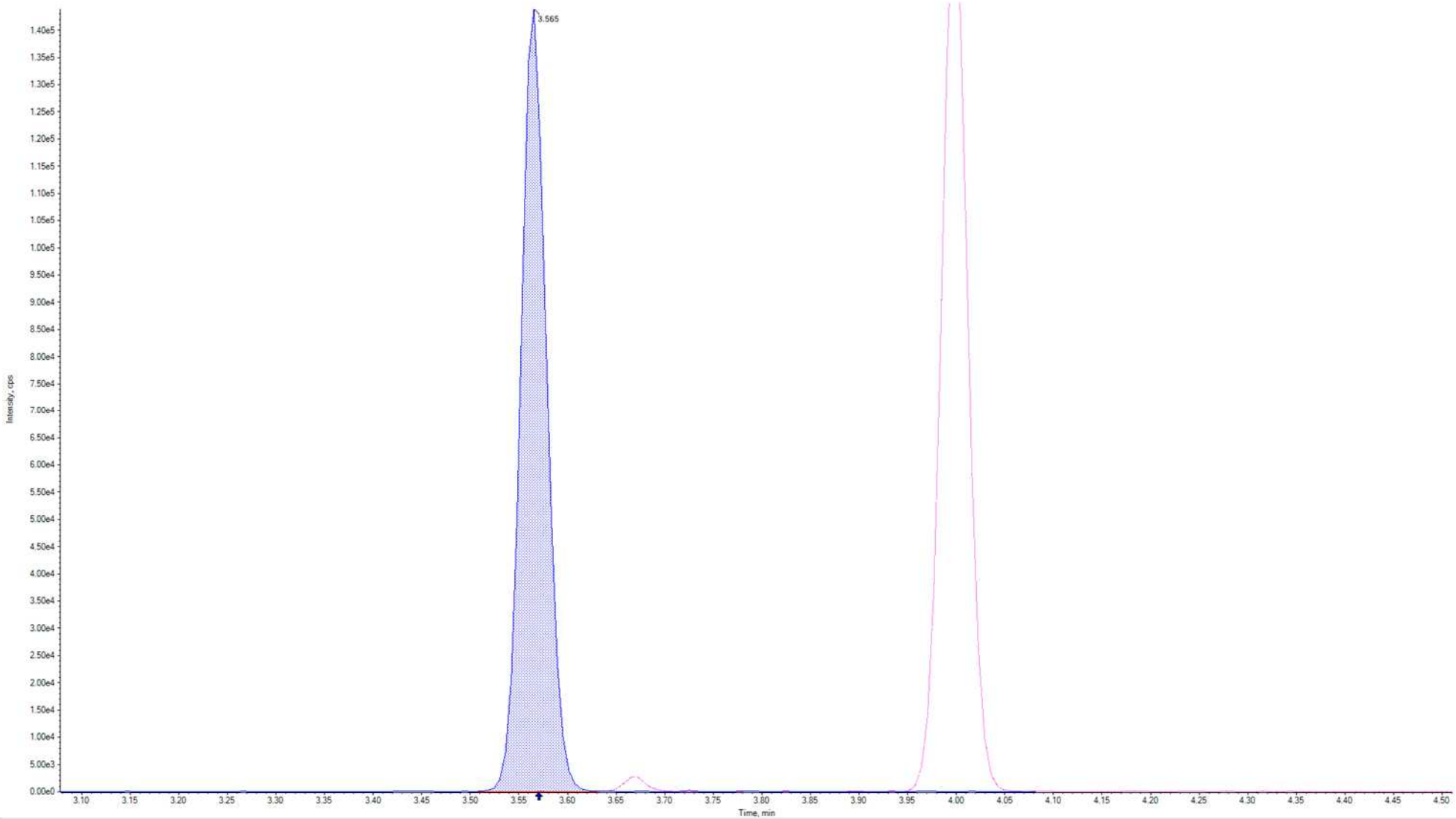
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Alpha Analytical LLC
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PFHxS_2
Sample: WG2038443-3R S/N:741.7 Points Across peak:47



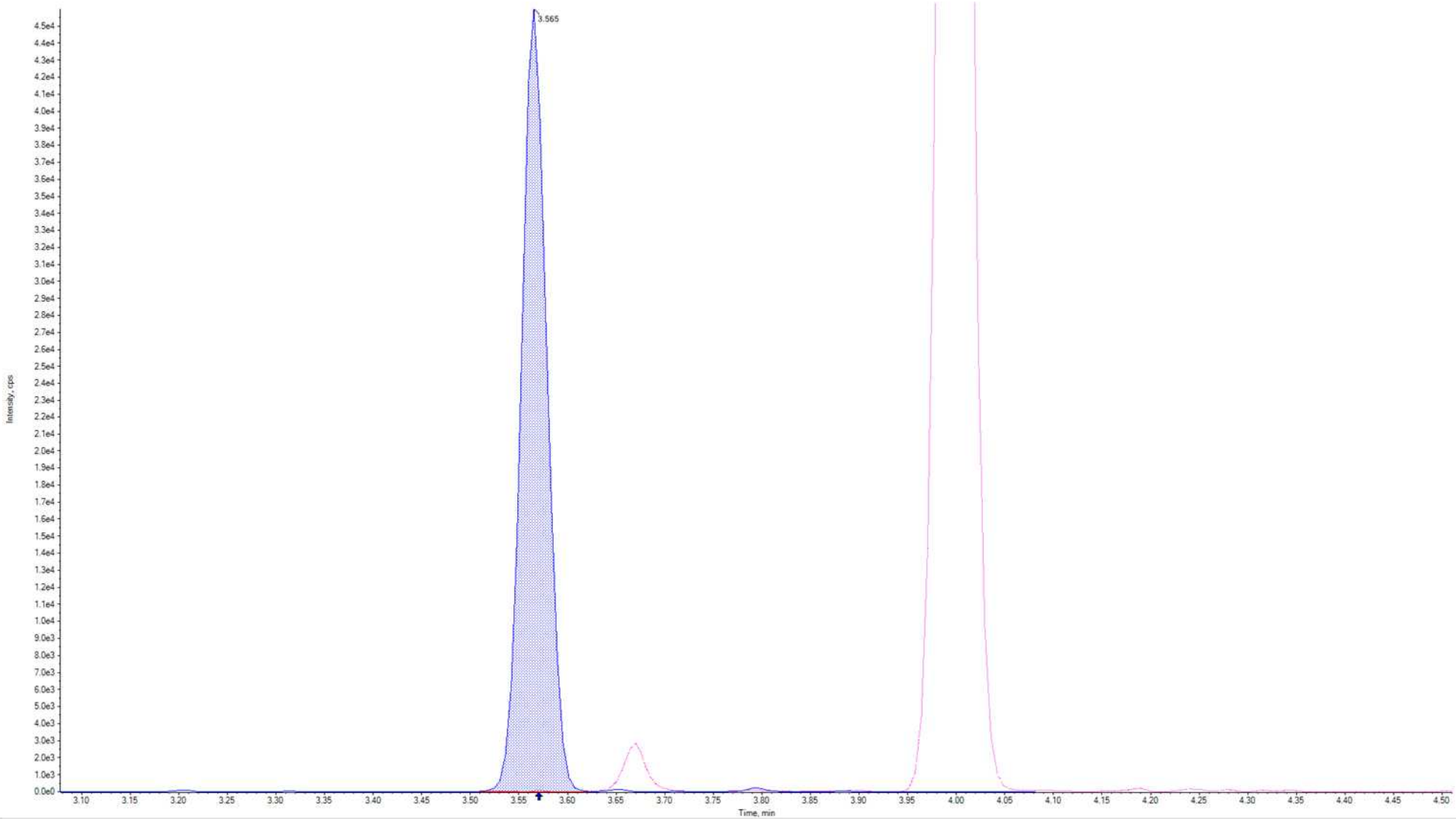
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFHpS
Sample: WG2038443-3R S/N:2732.6 Points Across peak:22



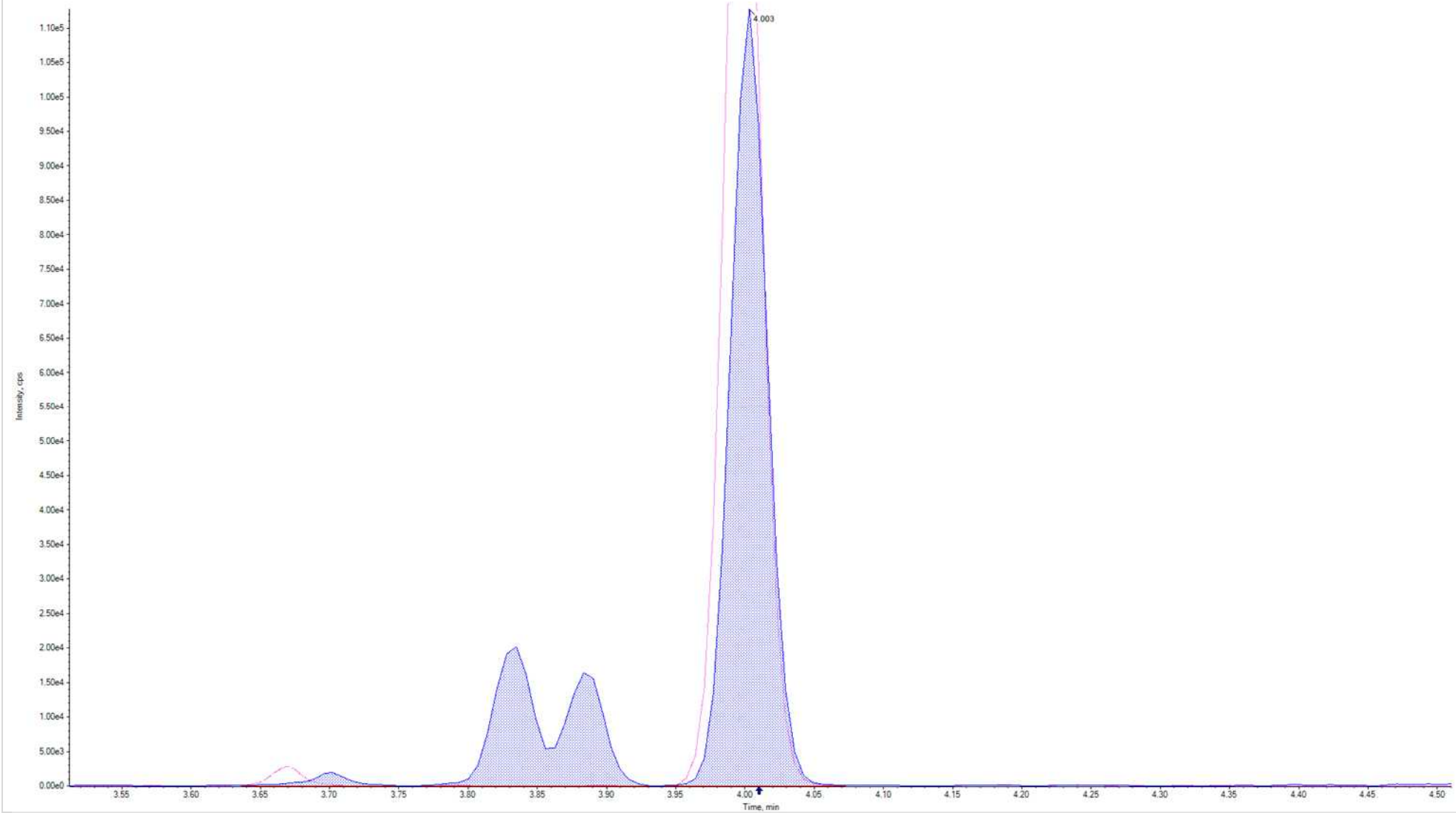
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PFHpS_2
Sample: WG2038443-3R S/N:922.4 Points Across peak:26



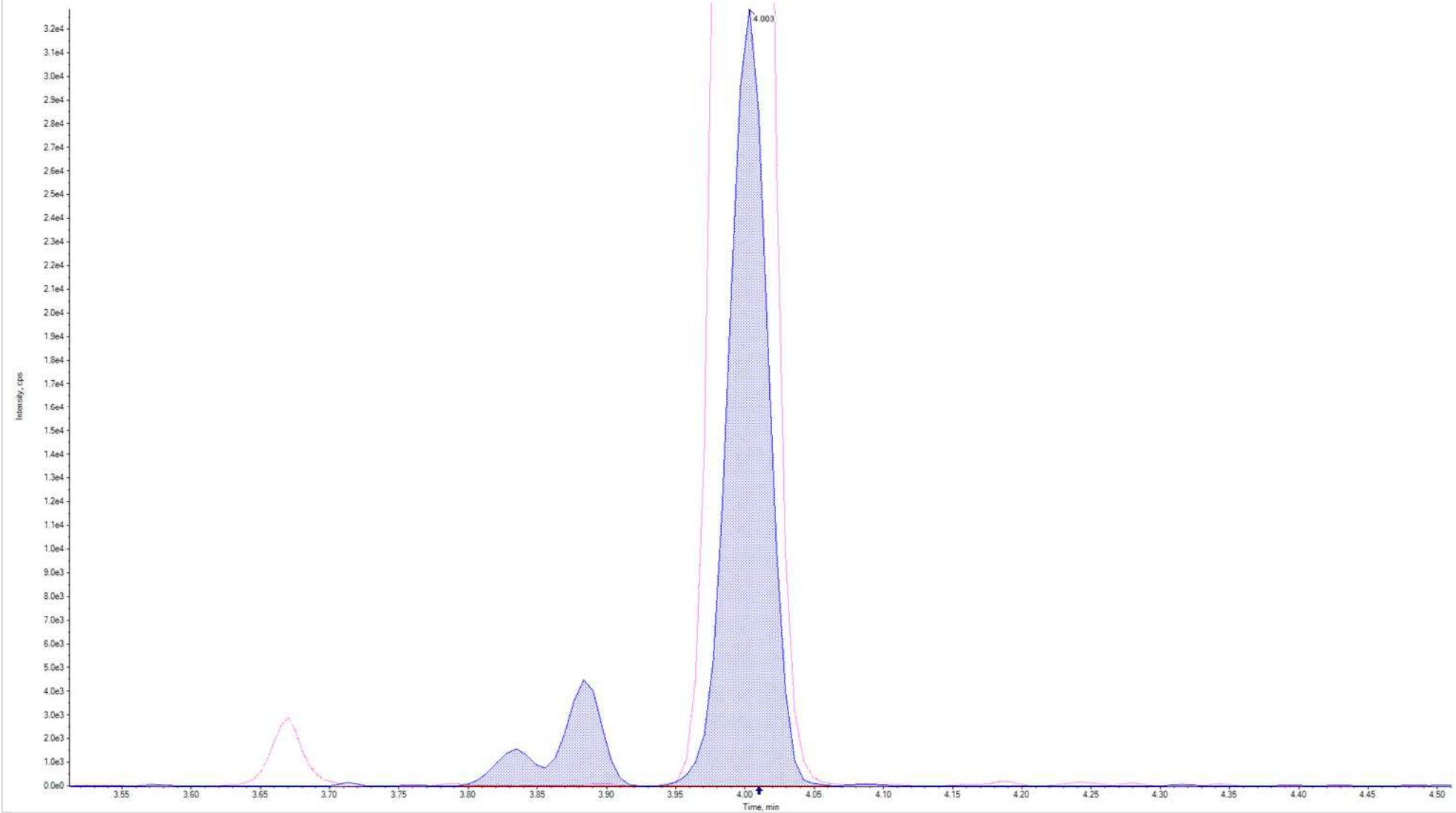
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFOS
Sample: WG2038443-3R S/N:439.0 Points Across peak:71



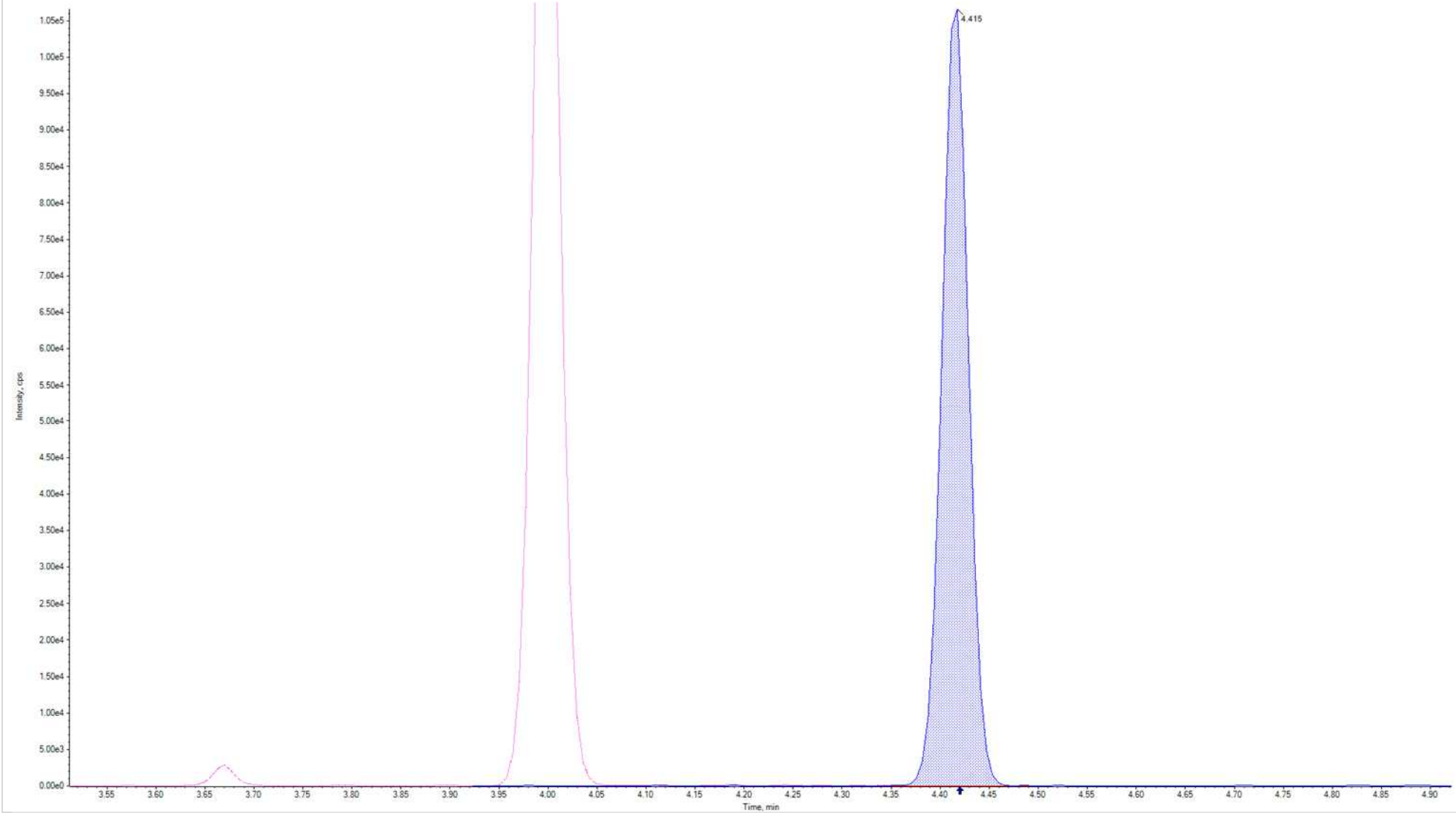
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

PFOS_2
Sample: WG2038443-3R S/N:658.5 Points Across peak:43



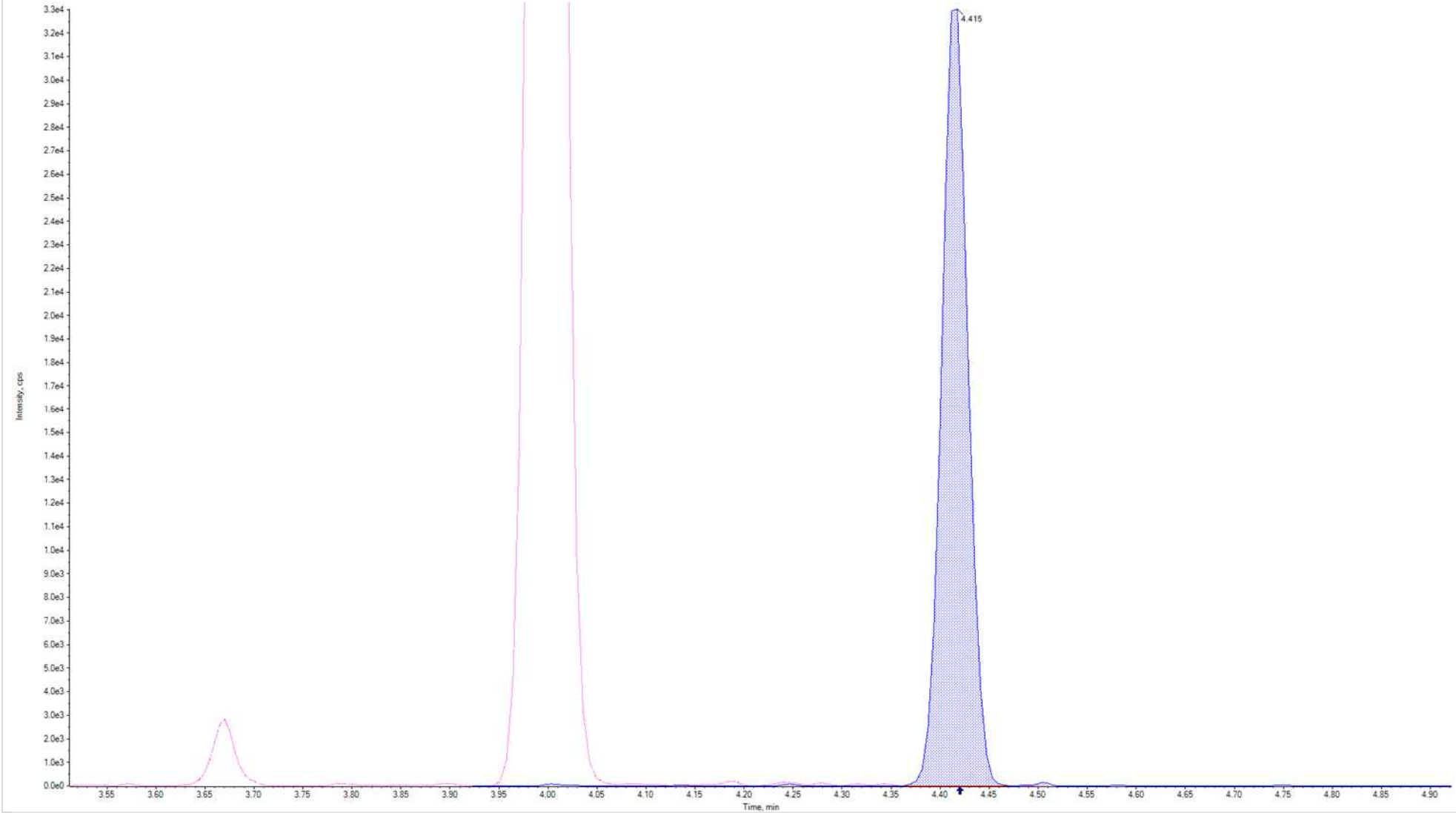
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Alpha Analytical LLC
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PFNS
Sample: WG2038443-3R S/N:2671.9 Points Across peak:30



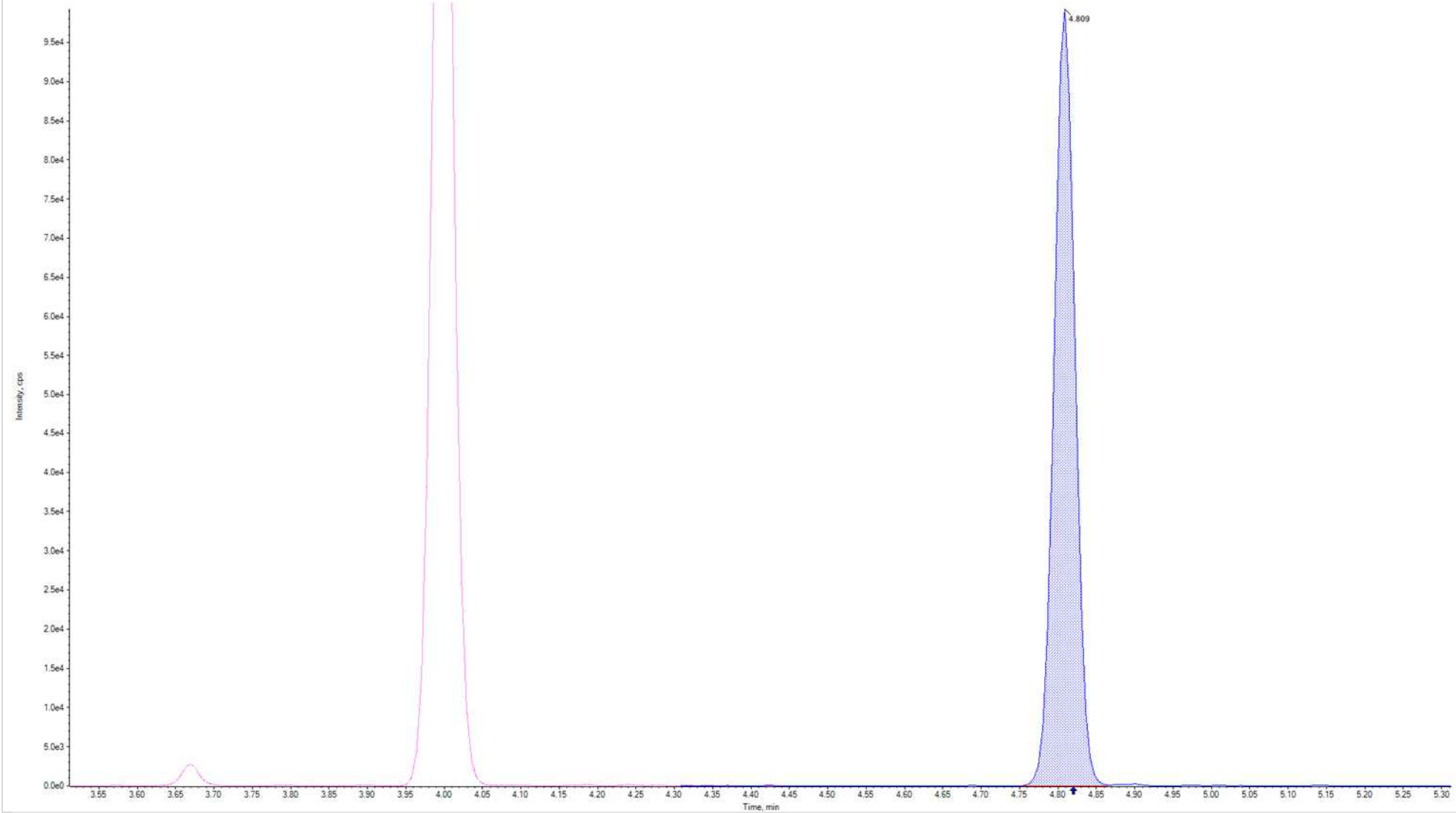
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Alpha Analytical LLC
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PFNS_2
Sample: WG2038443-3R S/N:827.7 Points Across peak:26



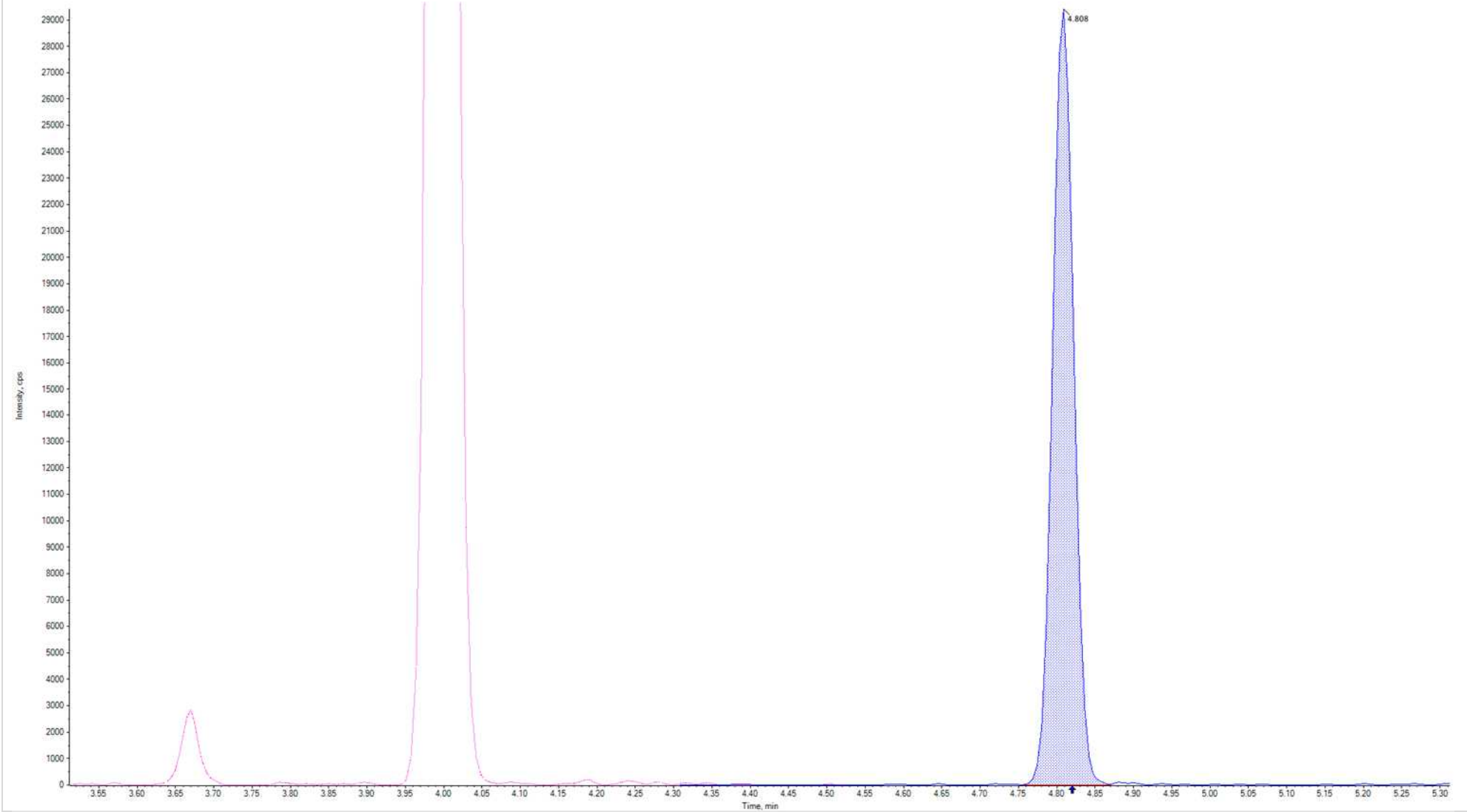
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

PFDS
Sample: WG2038443-3R S/N:3483.3 Points Across peak:22



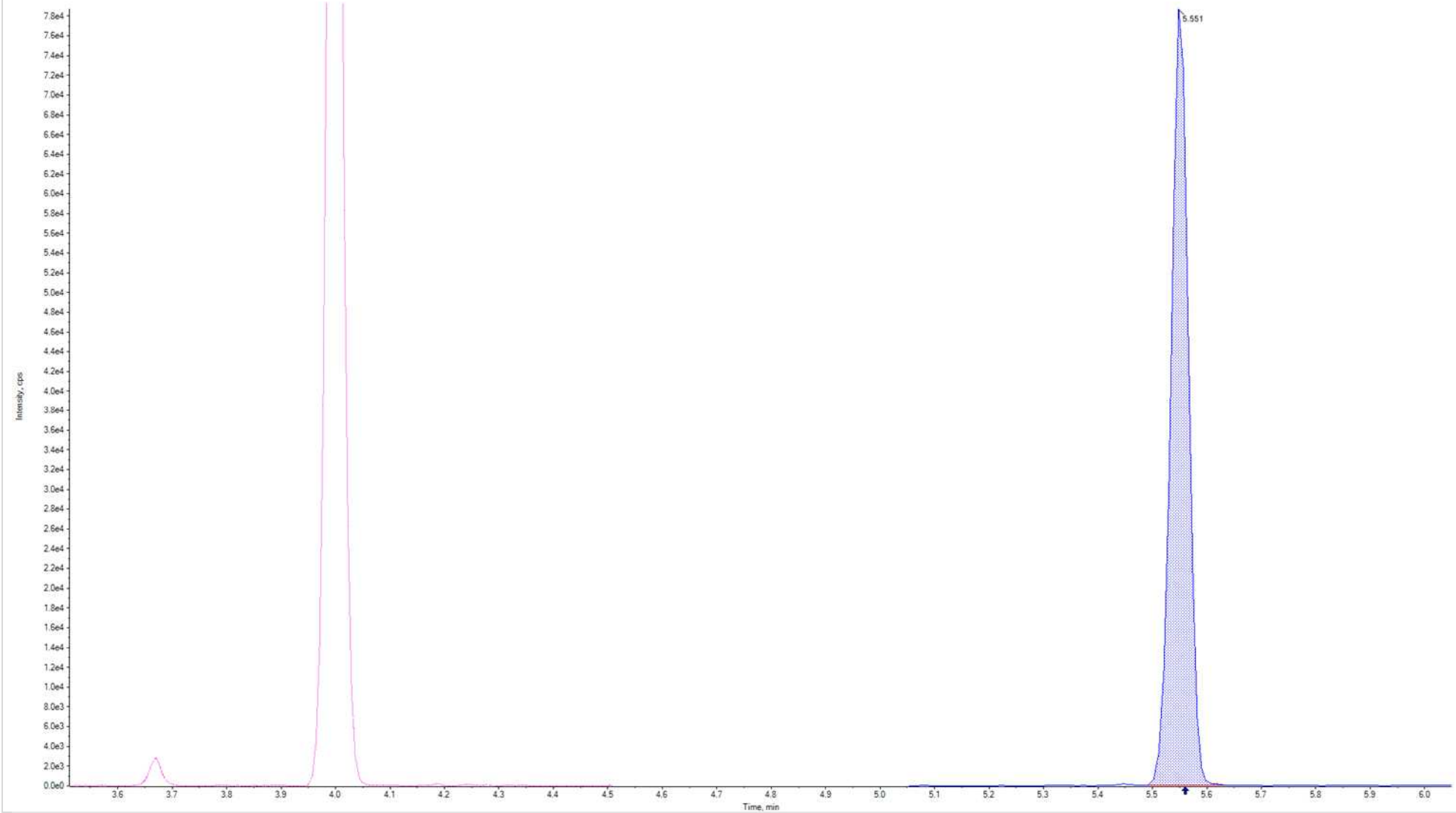
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Alpha Analytical LLC
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PFDS_2
Sample: WG2038443-3R S/N:1032.1 Points Across peak:21



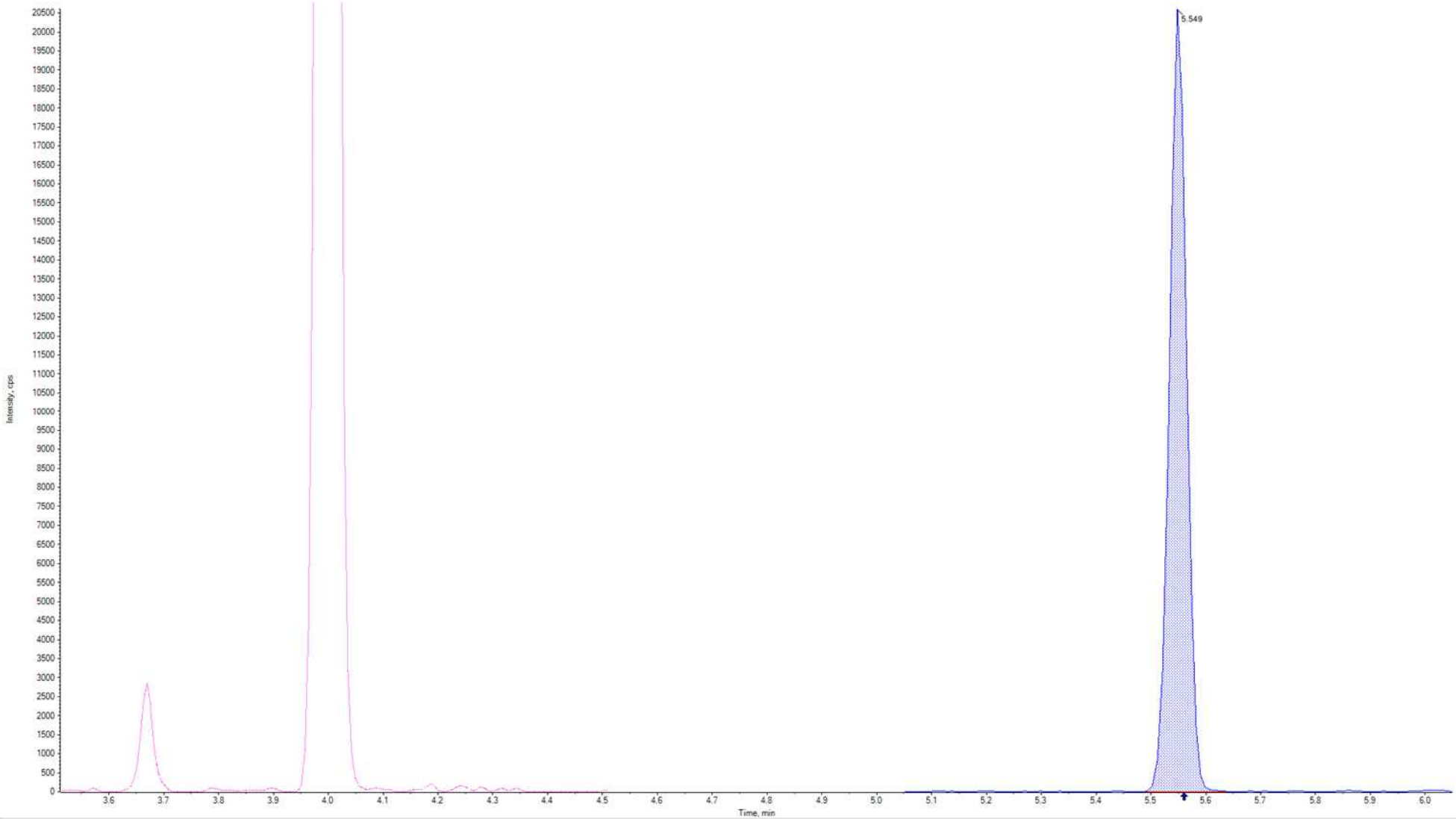
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Alpha Analytical LLC
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PFDoS
Sample: WG2038443-3R S/N:4364.9 Points Across peak:23



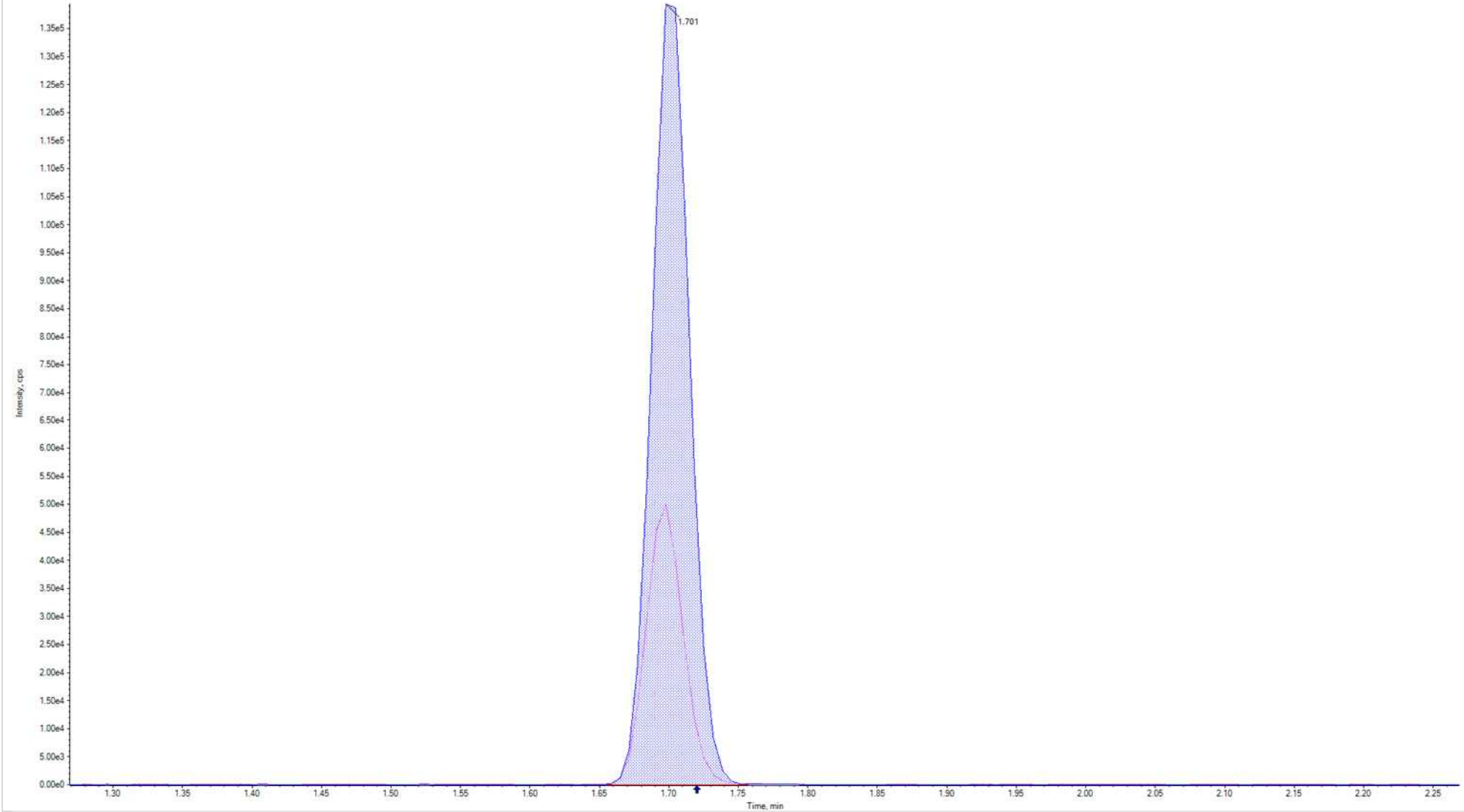
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Alpha Analytical LLC
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PFDoS_2
Sample: WG2038443-3R S/N:1528.0 Points Across peak:21



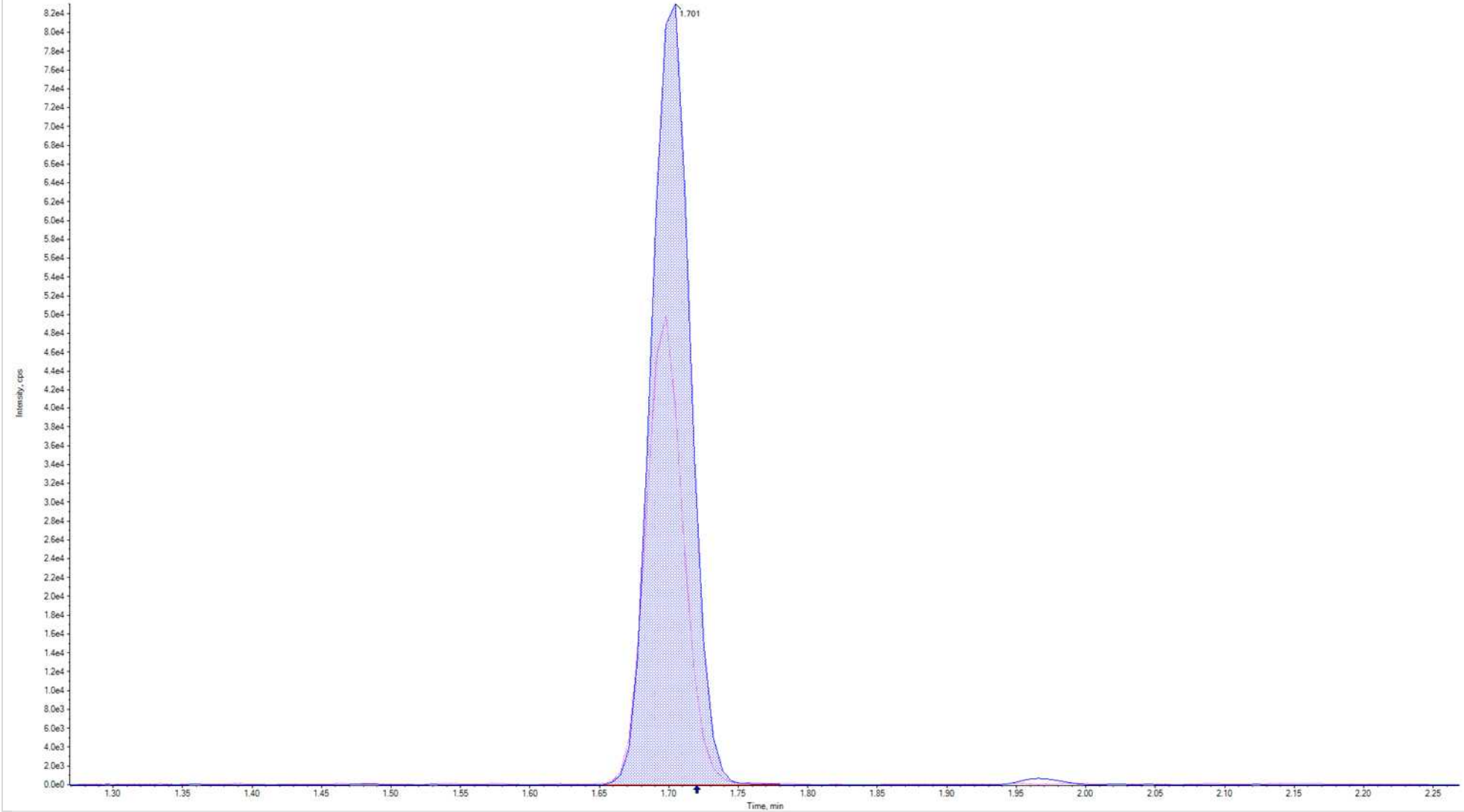
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Alpha Analytical LLC
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4:2FTS
Sample: WG2038443-3R S/N:4863.3 Points Across peak:20



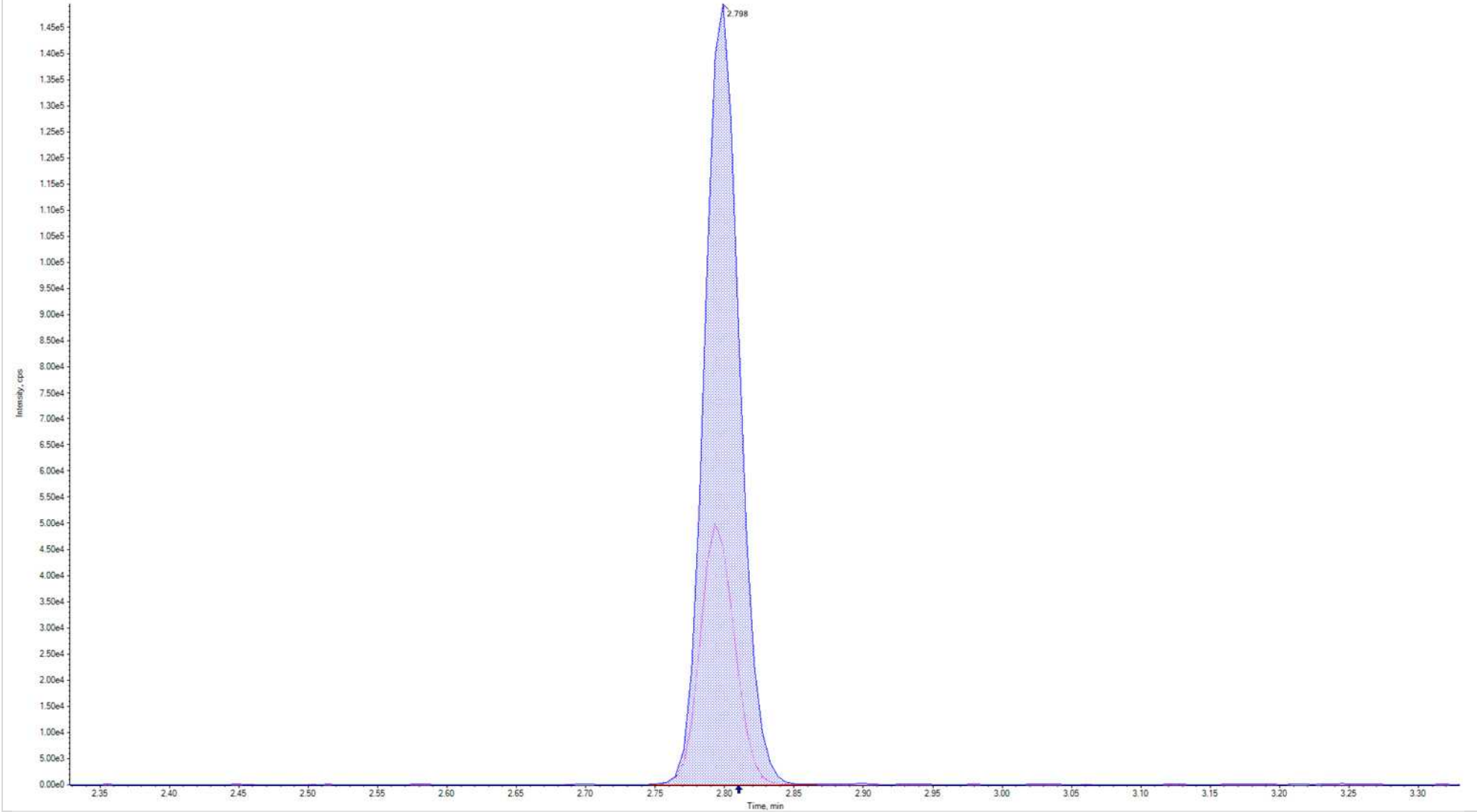
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Alpha Analytical LLC
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4:2FTS_2
Sample: WG2038443-3R S/N:3121.1 Points Across peak:30



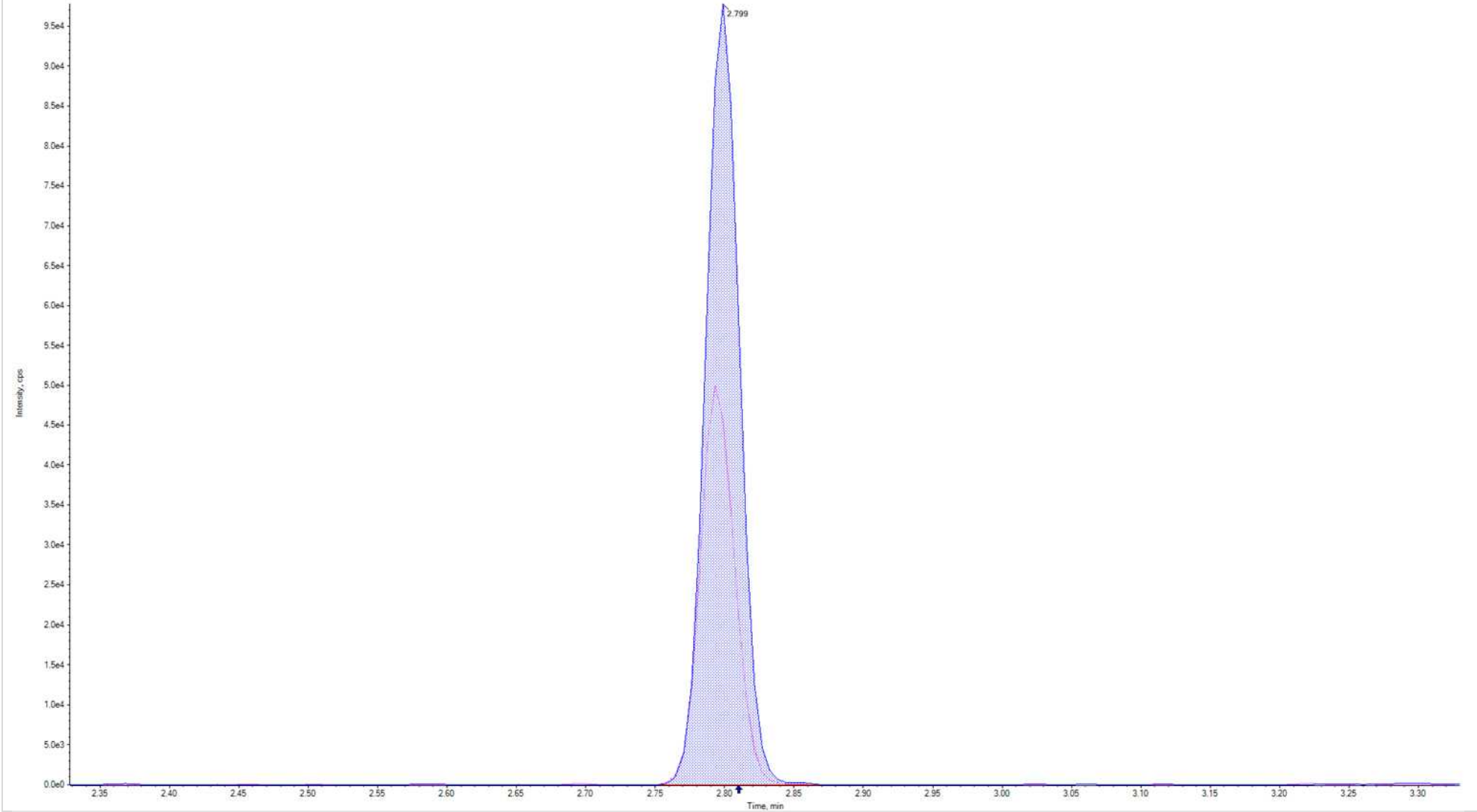
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Alpha Analytical LLC
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6:2FTS
Sample: WG2038443-3R S/N:2997.4 Points Across peak:24



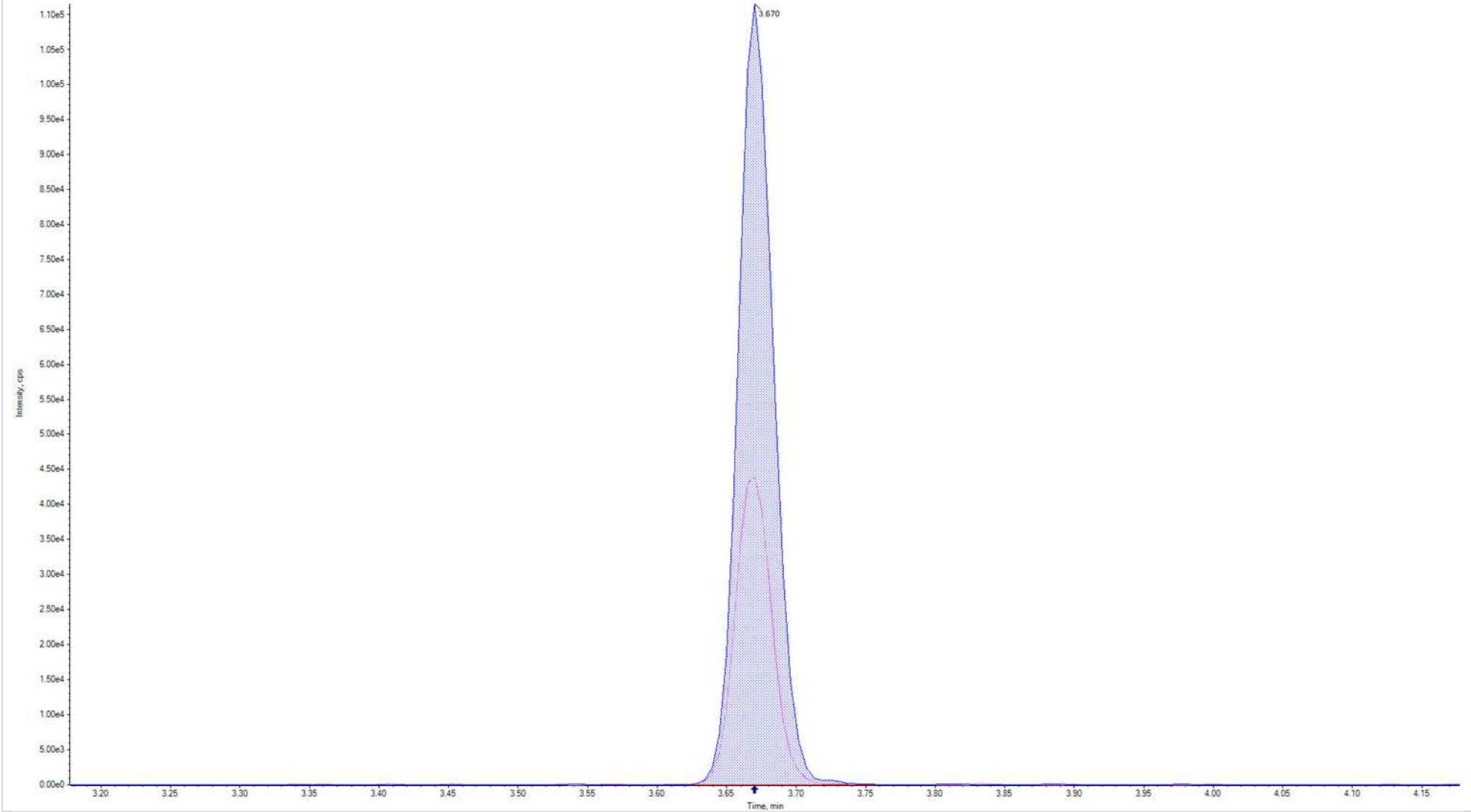
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Alpha Analytical LLC
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6:2FTS_2
Sample: WG2038443-3R S/N:1960.6 Points Across peak:25



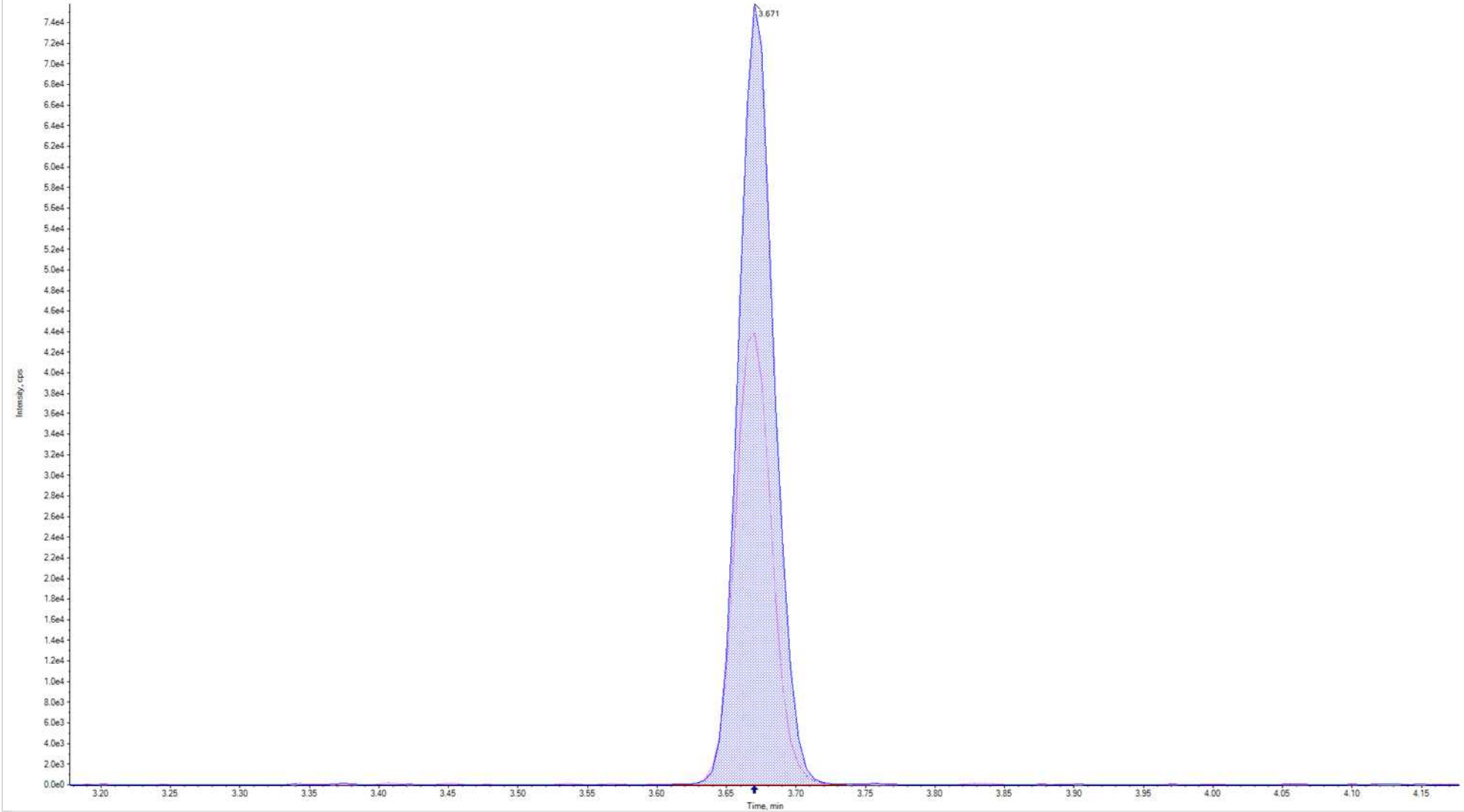
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_45.wiff2_4
Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

8:2FTS
Sample: WG2038443-3R S/N:1785.0 Points Across peak:32



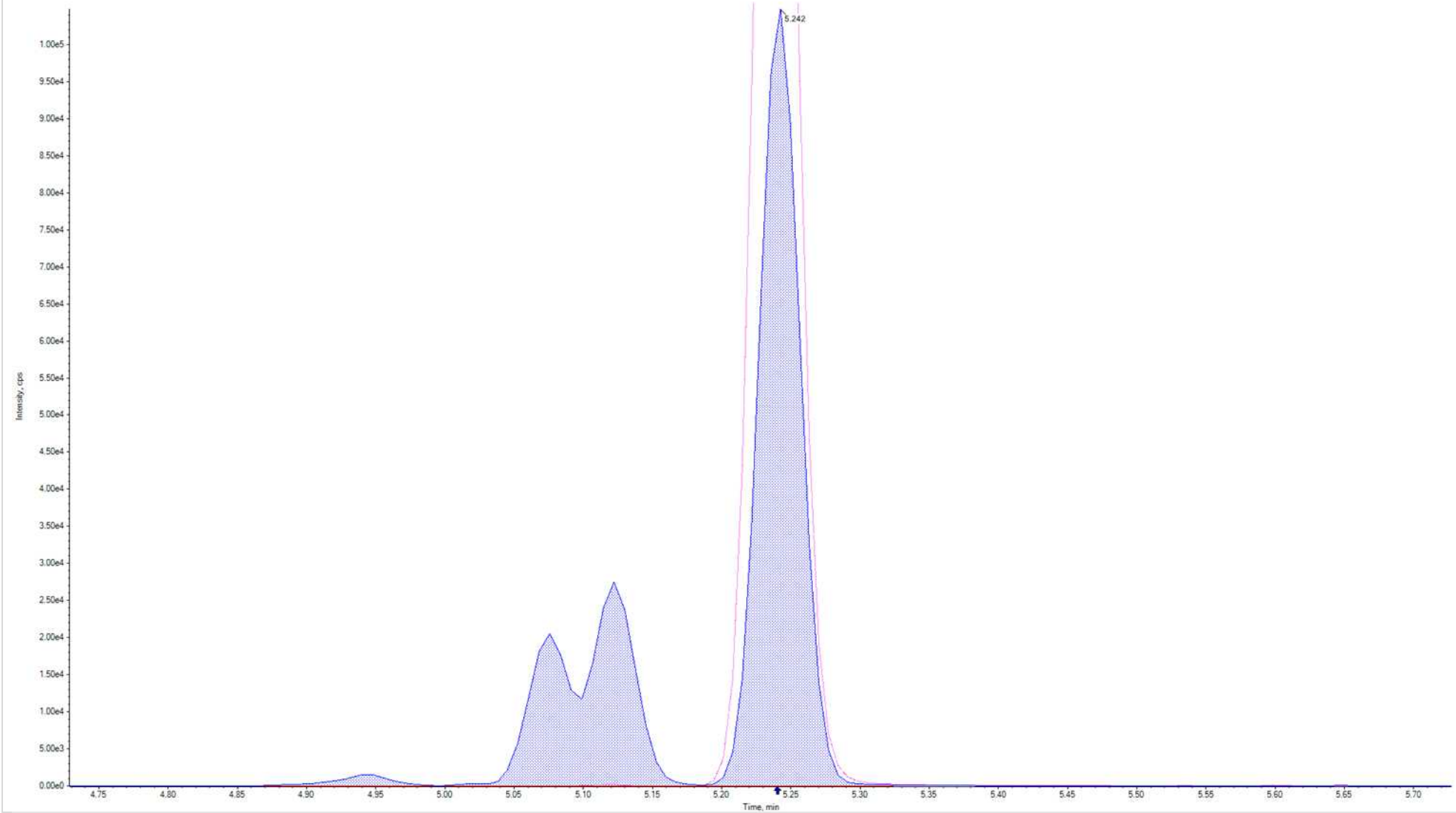
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_45.wiff2_4
Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

8:2FTS_2
Sample: WG2038443-3R S/N:1520.4 Points Across peak:31



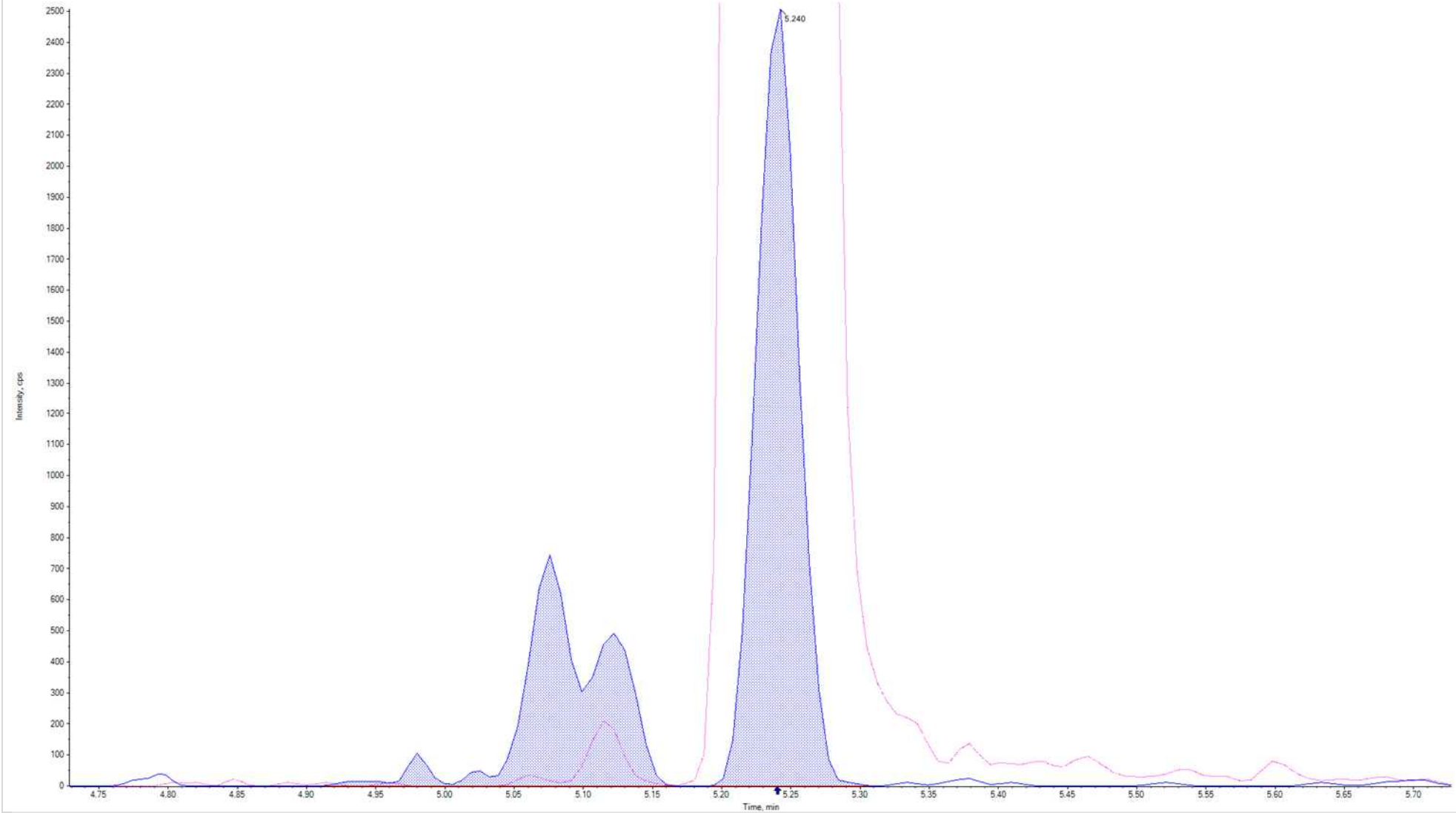
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_45.wiff2_4
Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFOSA
Sample: WG2038443-3R S/N:337.5 Points Across peak:69



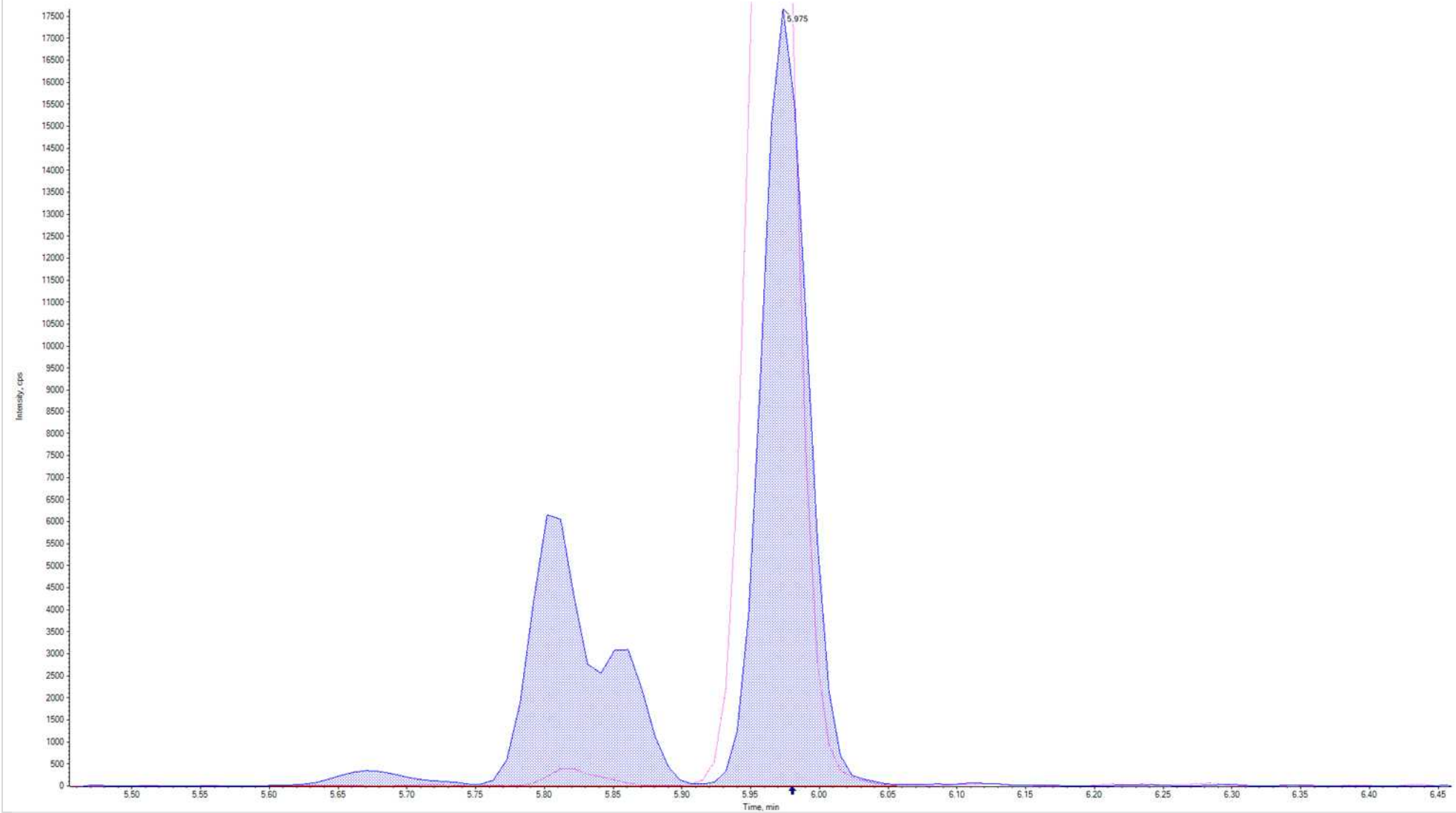
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFOSA_2
Sample: WG2038443-3R S/N:198.6 Points Across peak:59



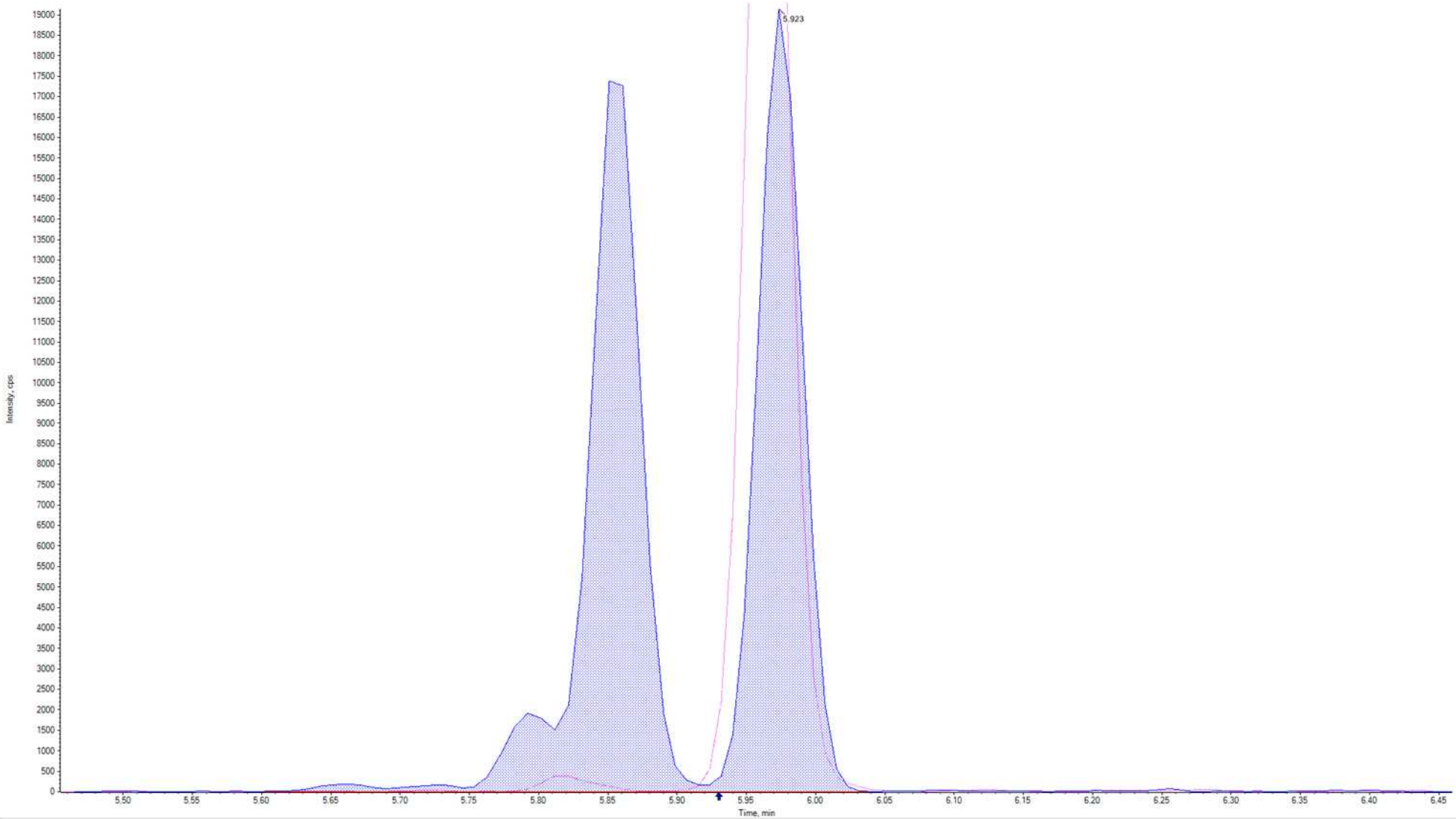
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_45.wiff2_4
Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

NMeFOSA
Sample: WG2038443-3R S/N:269.7 Points Across peak:52



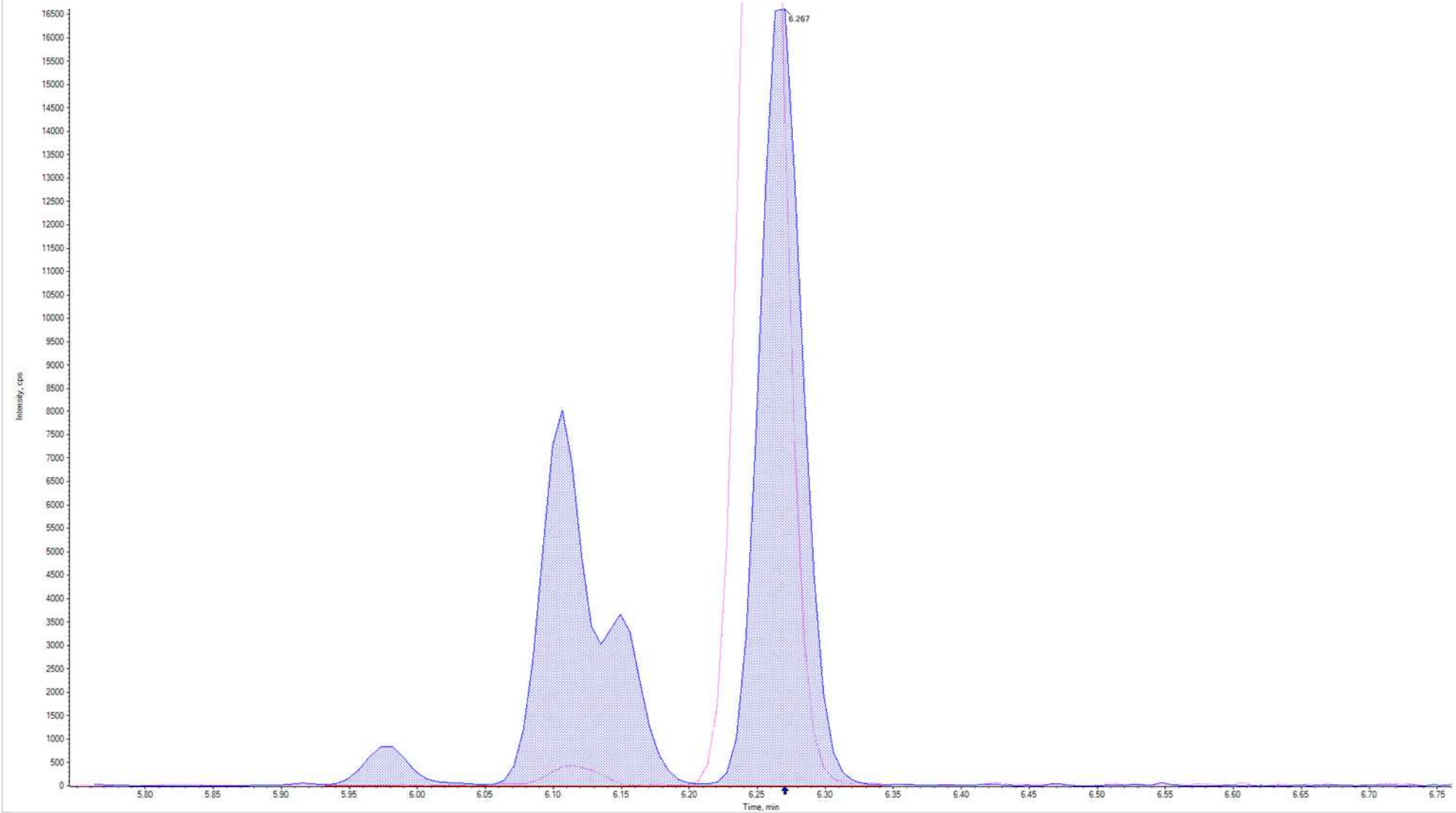
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

NMeFOSA_2
Sample: WG2038443-3R S/N:207.7 Points Across peak:50



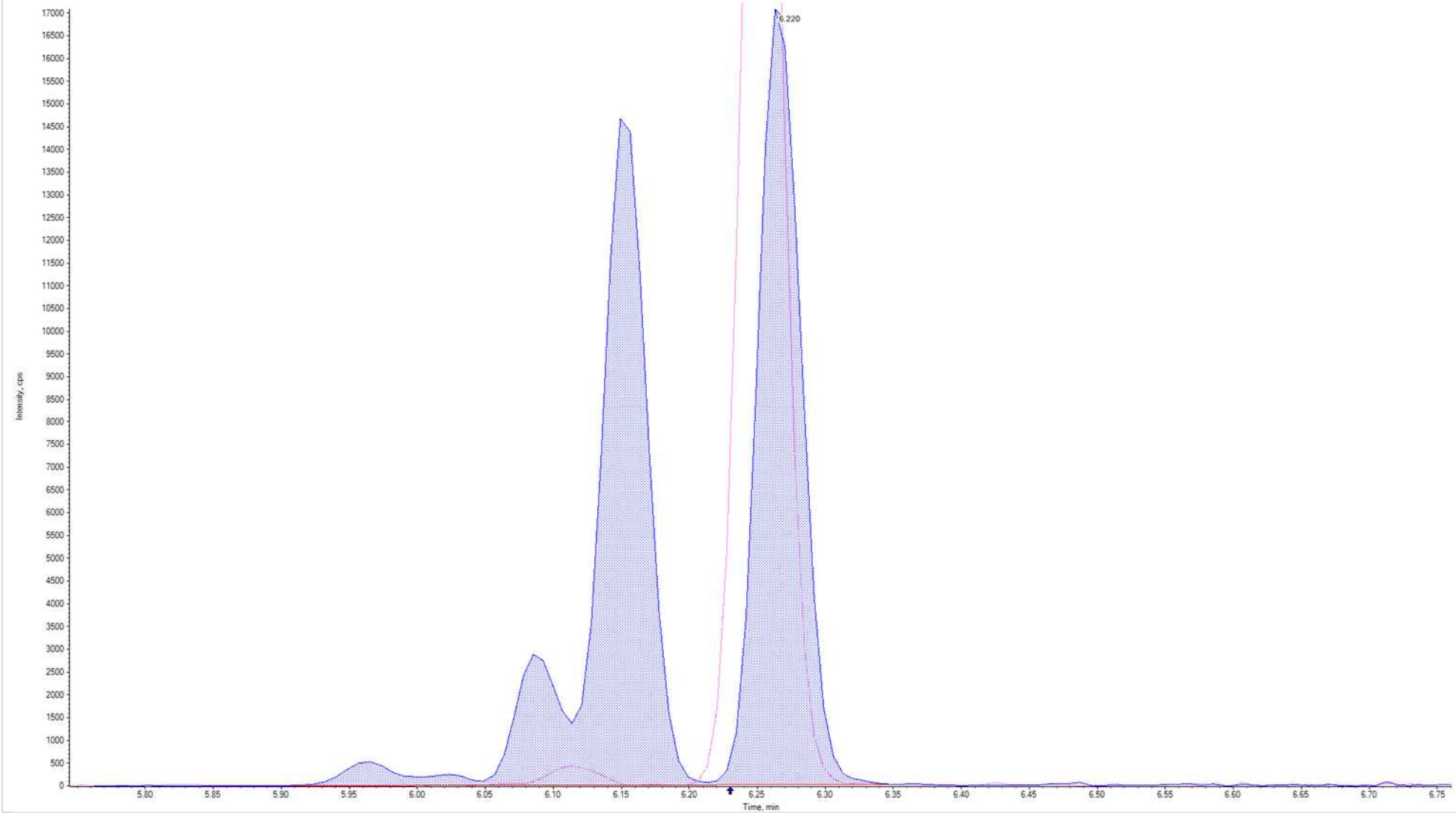
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

NEtFOSA
Sample: WG2038443-3R S/N:525.2 Points Across peak:57



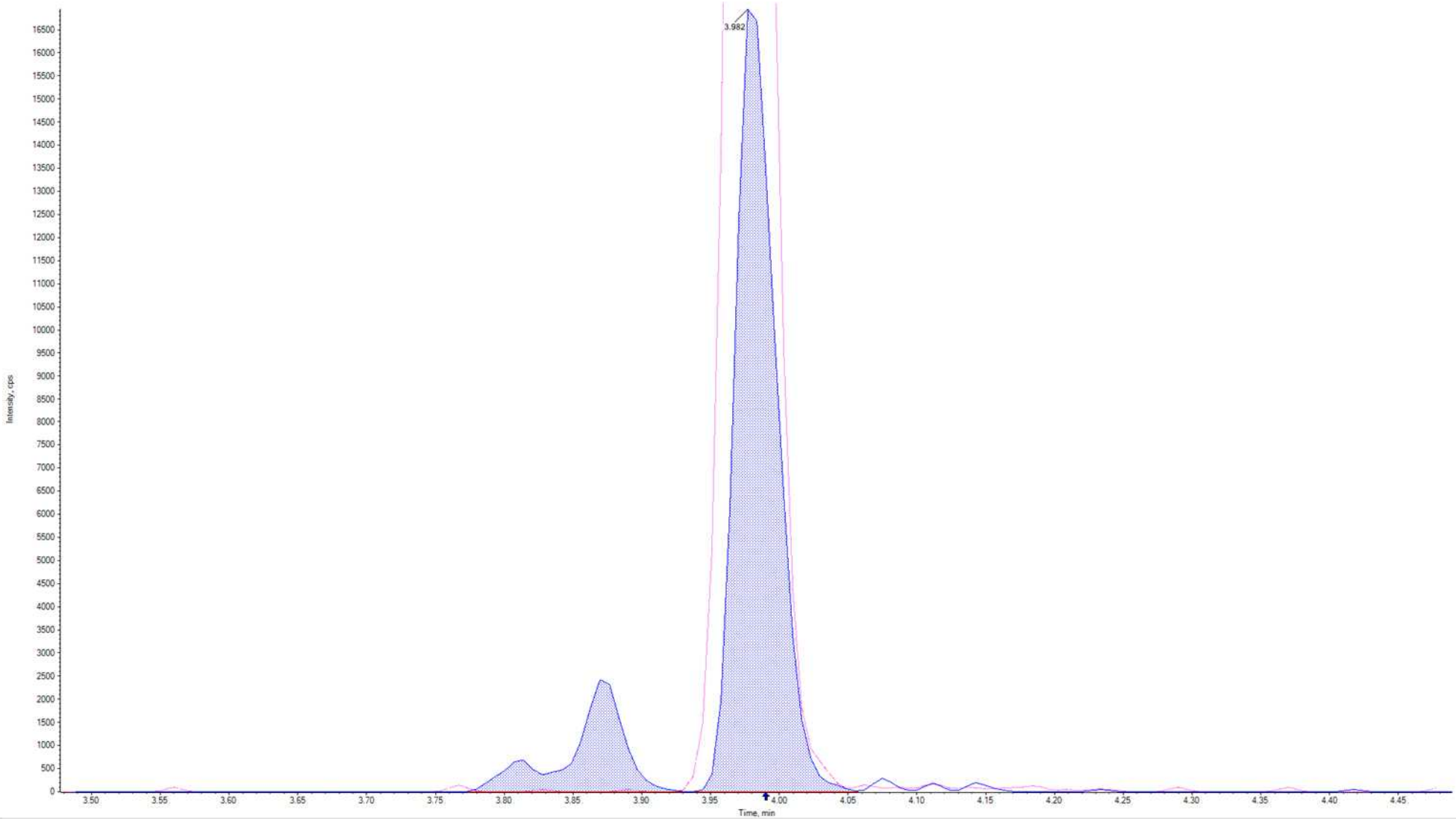
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

NEtFOSA_2
Sample: WG2038443-3R S/N:403.7 Points Across peak:63



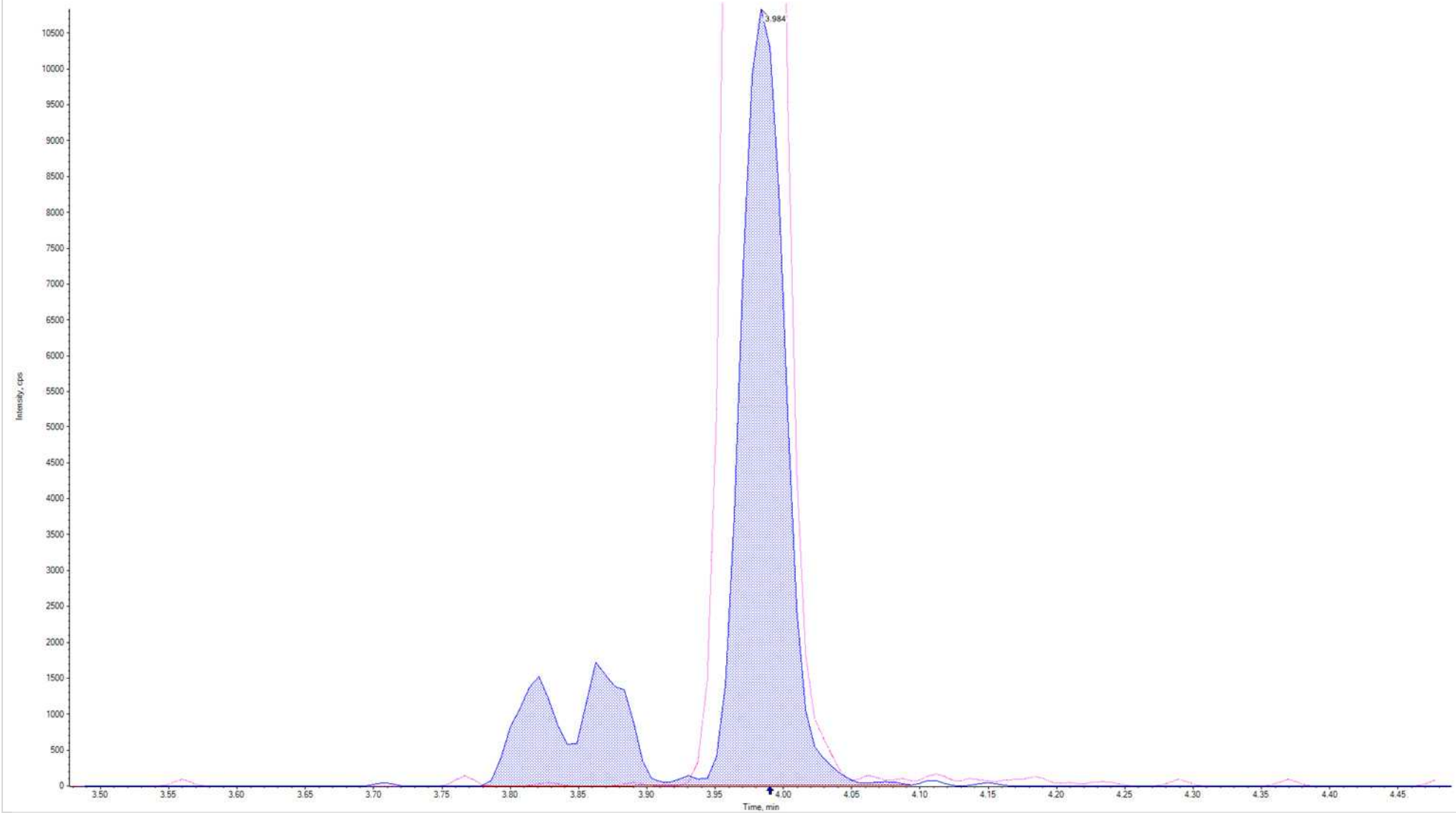
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
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NMeFOSAA
Sample: WG2038443-3R S/N:339.8 Points Across peak:45



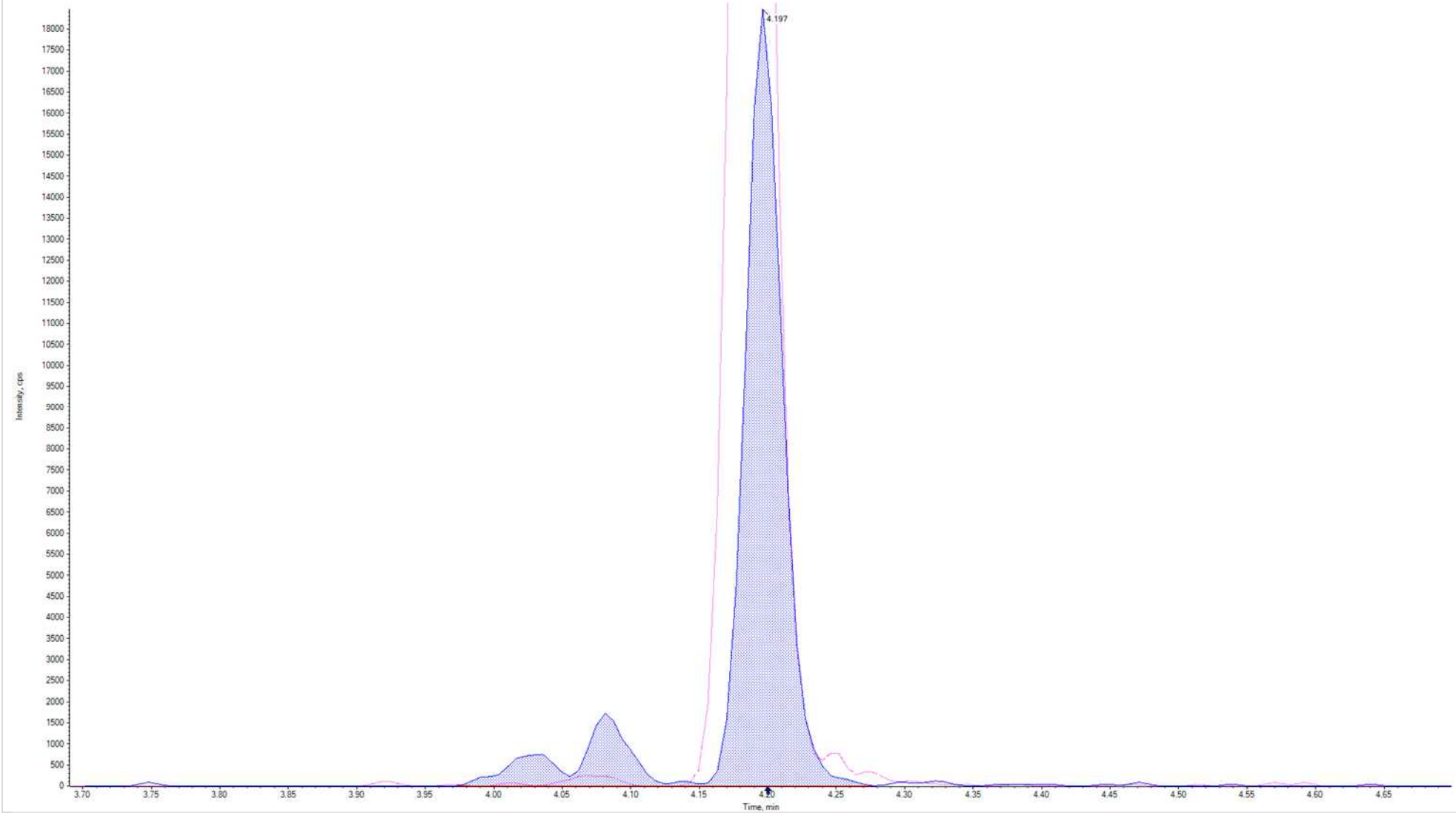
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Alpha Analytical LLC
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NMeFOSAA_2
Sample: WG2038443-3R S/N:217.1 Points Across peak:49



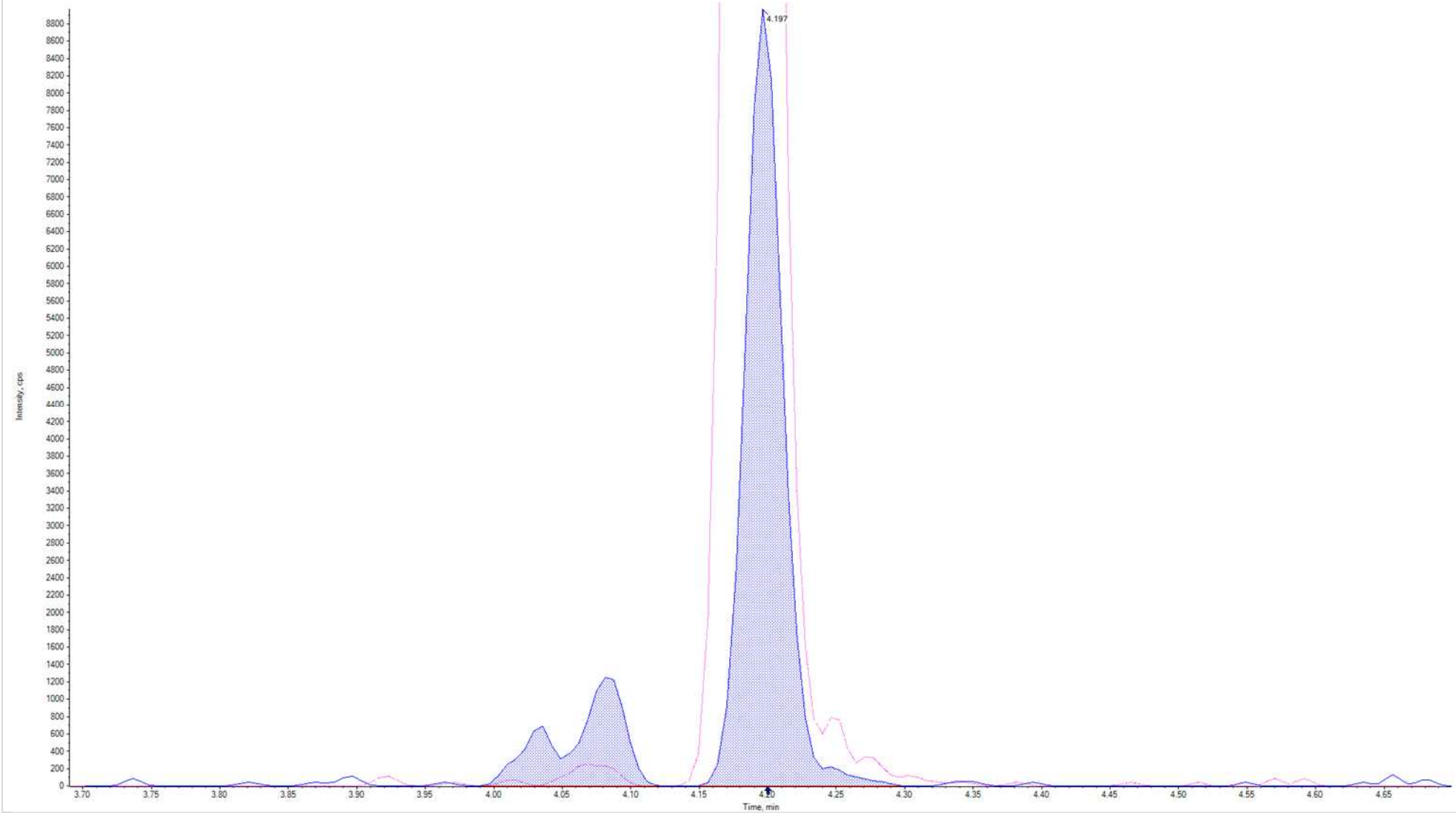
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

NEtFOSAA
Sample: WG2038443-3R S/N:416.7 Points Across peak:51



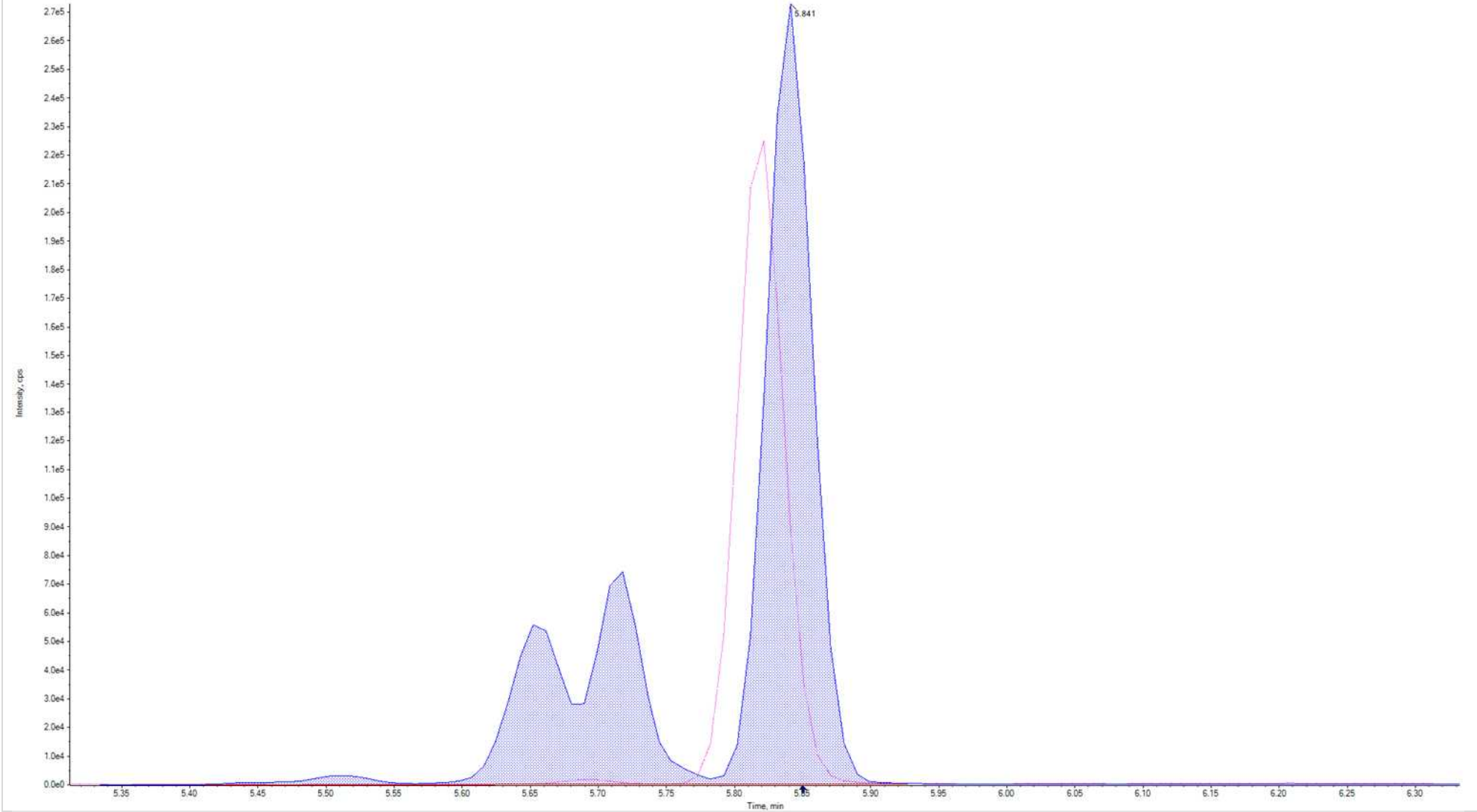
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
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NEtFOSAA_2
Sample: WG2038443-3R S/N:202.3 Points Across peak:51



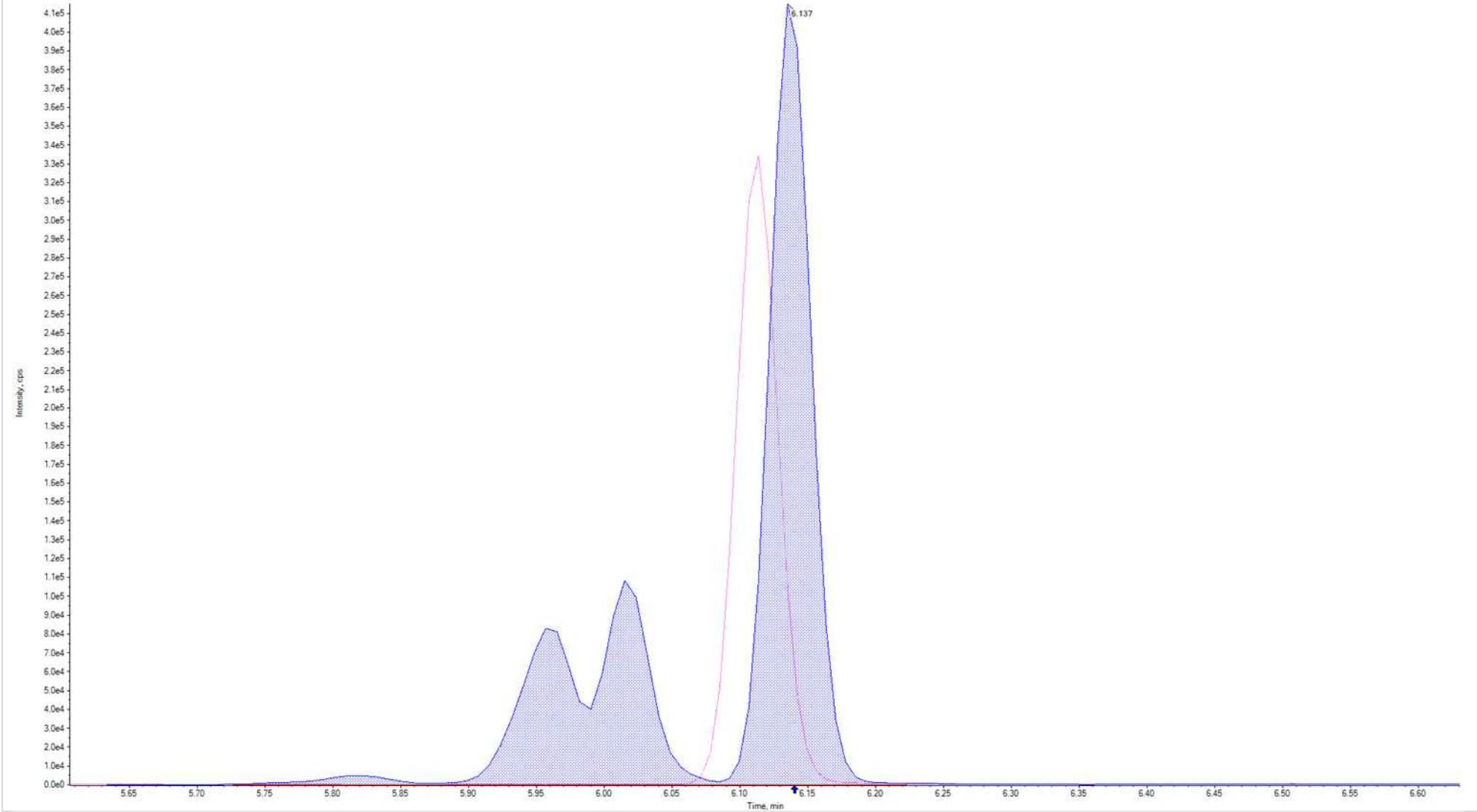
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

NMeFOSE
Sample: WG2038443-3R S/N:268.4 Points Across peak:60



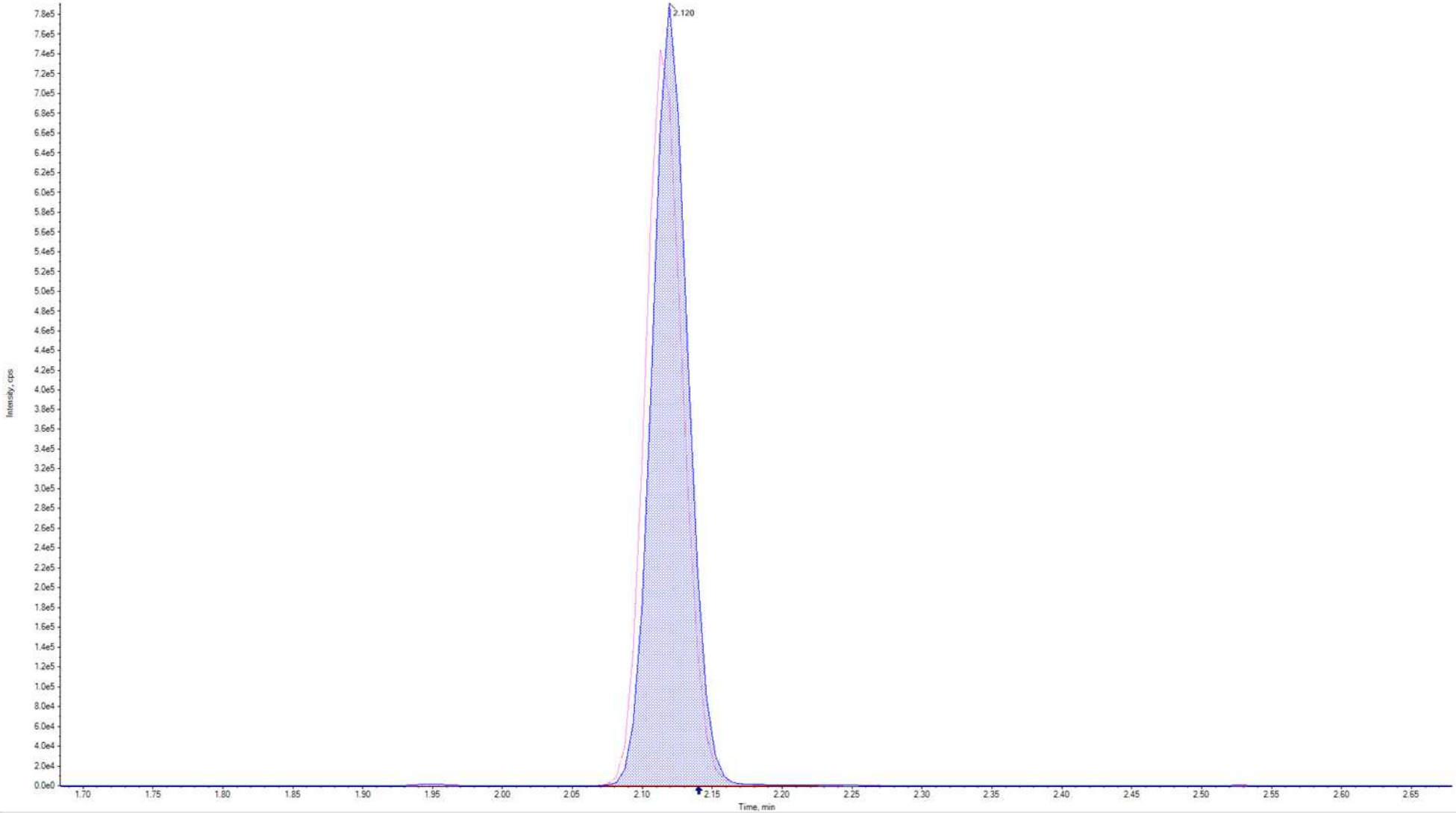
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

NEtFOSE
Sample: WG2038443-3R S/N:414.8 Points Across peak:63



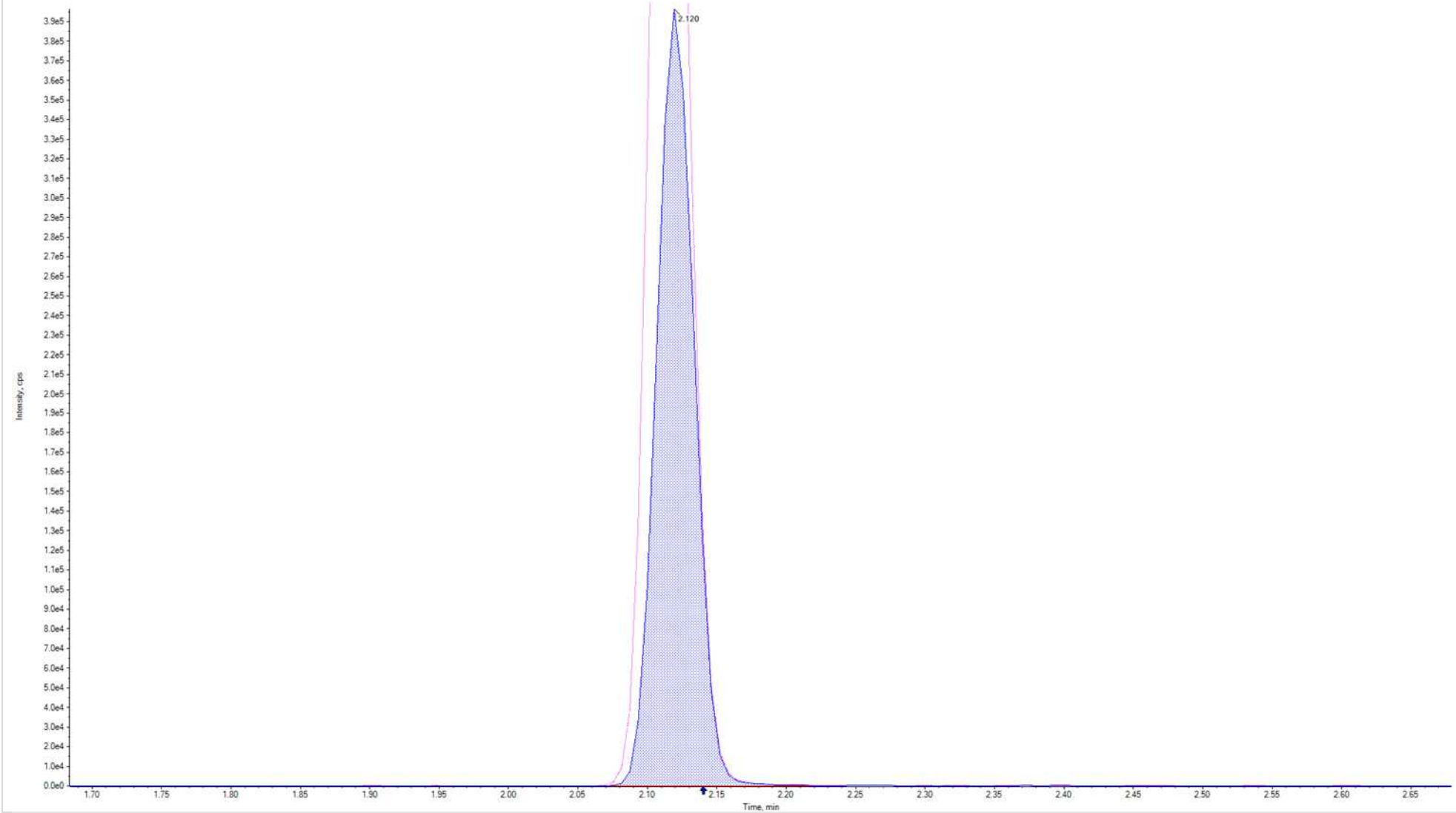
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Alpha Analytical LLC
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HFPO-DA
Sample: WG2038443-3R S/N:4020.5 Points Across peak:29



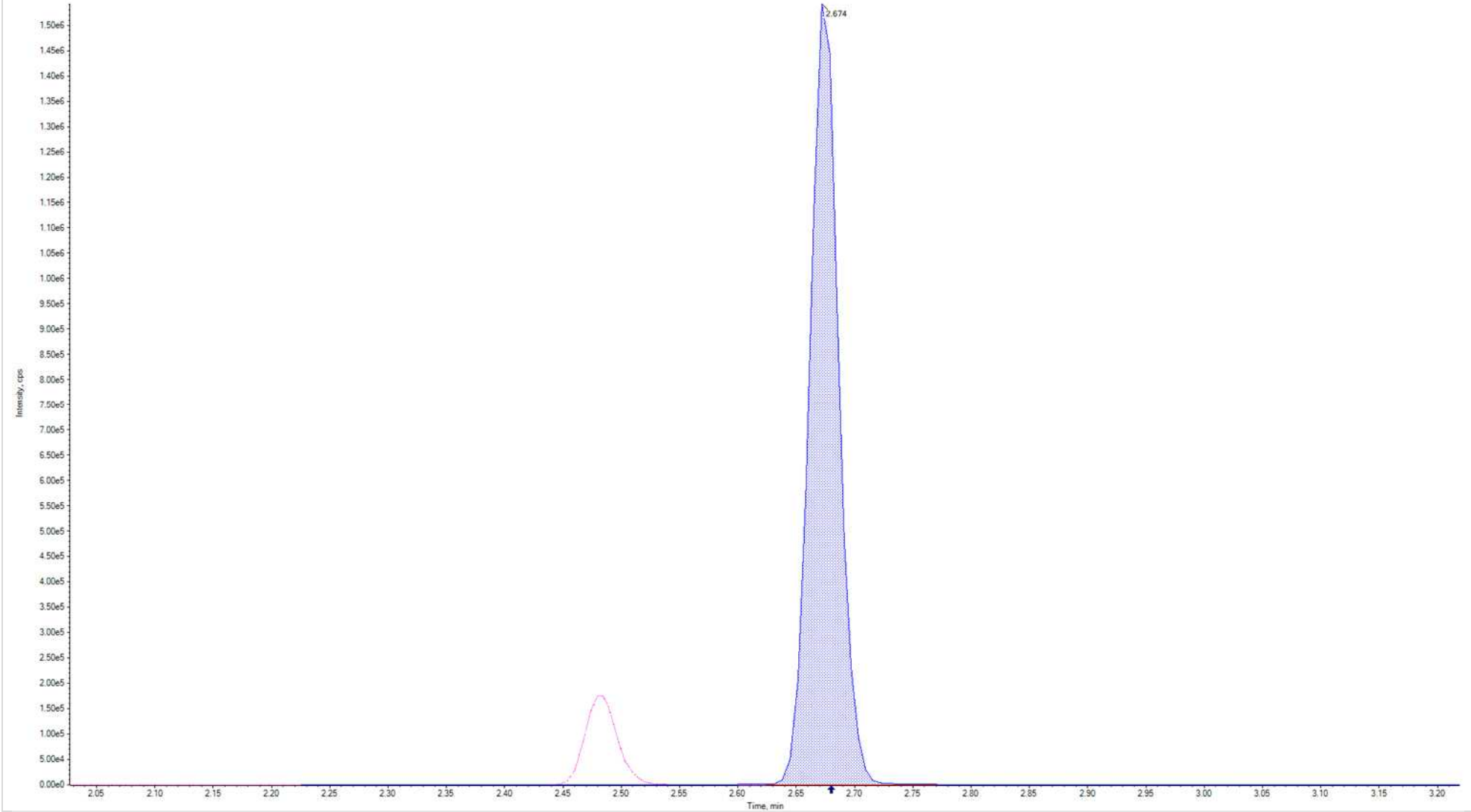
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

HFPO-DA_2
Sample: WG2038443-3R S/N:8941.0 Points Across peak:27



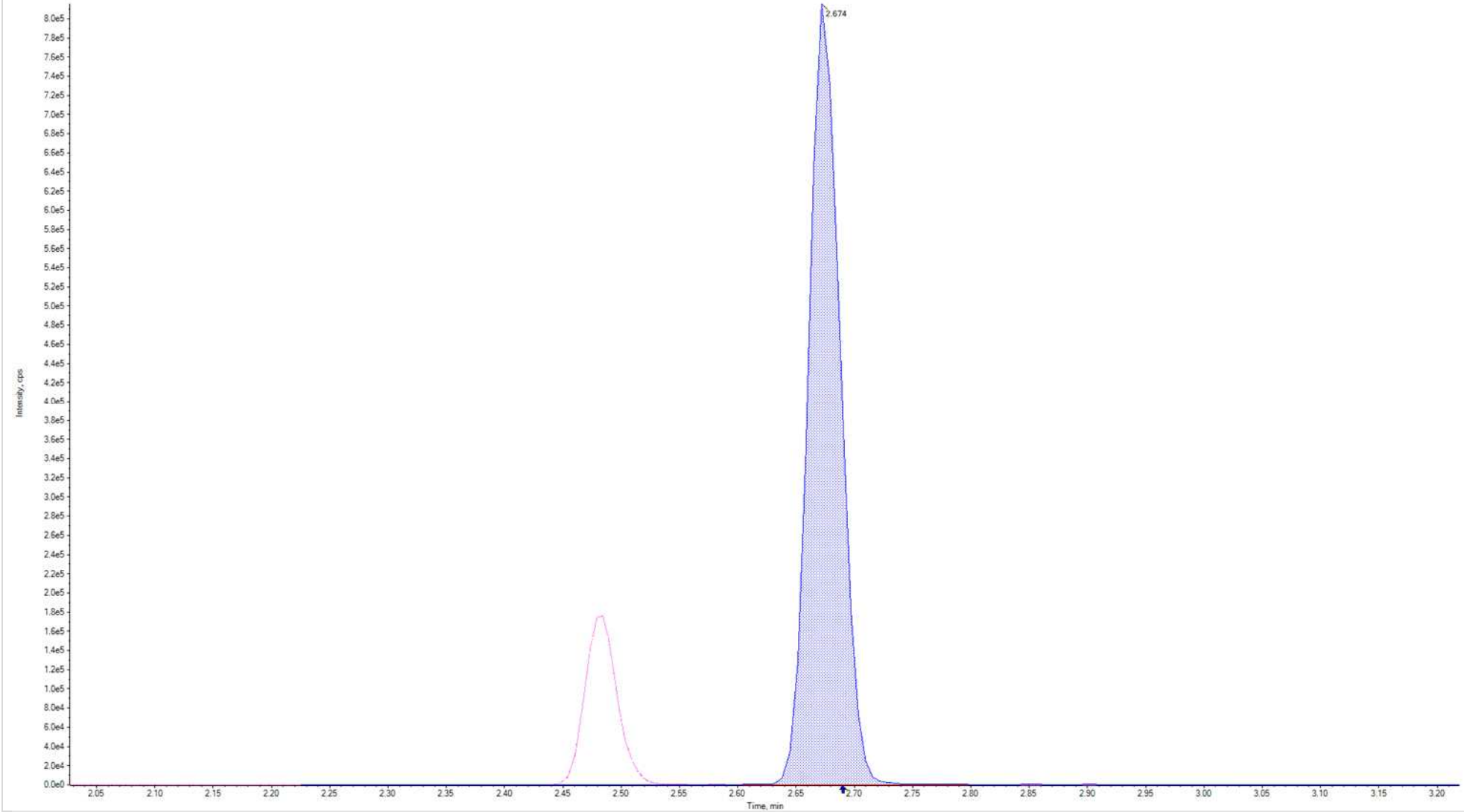
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Alpha Analytical LLC
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ADONA
Sample: WG2038443-3R S/N:4552.9 Points Across peak:27



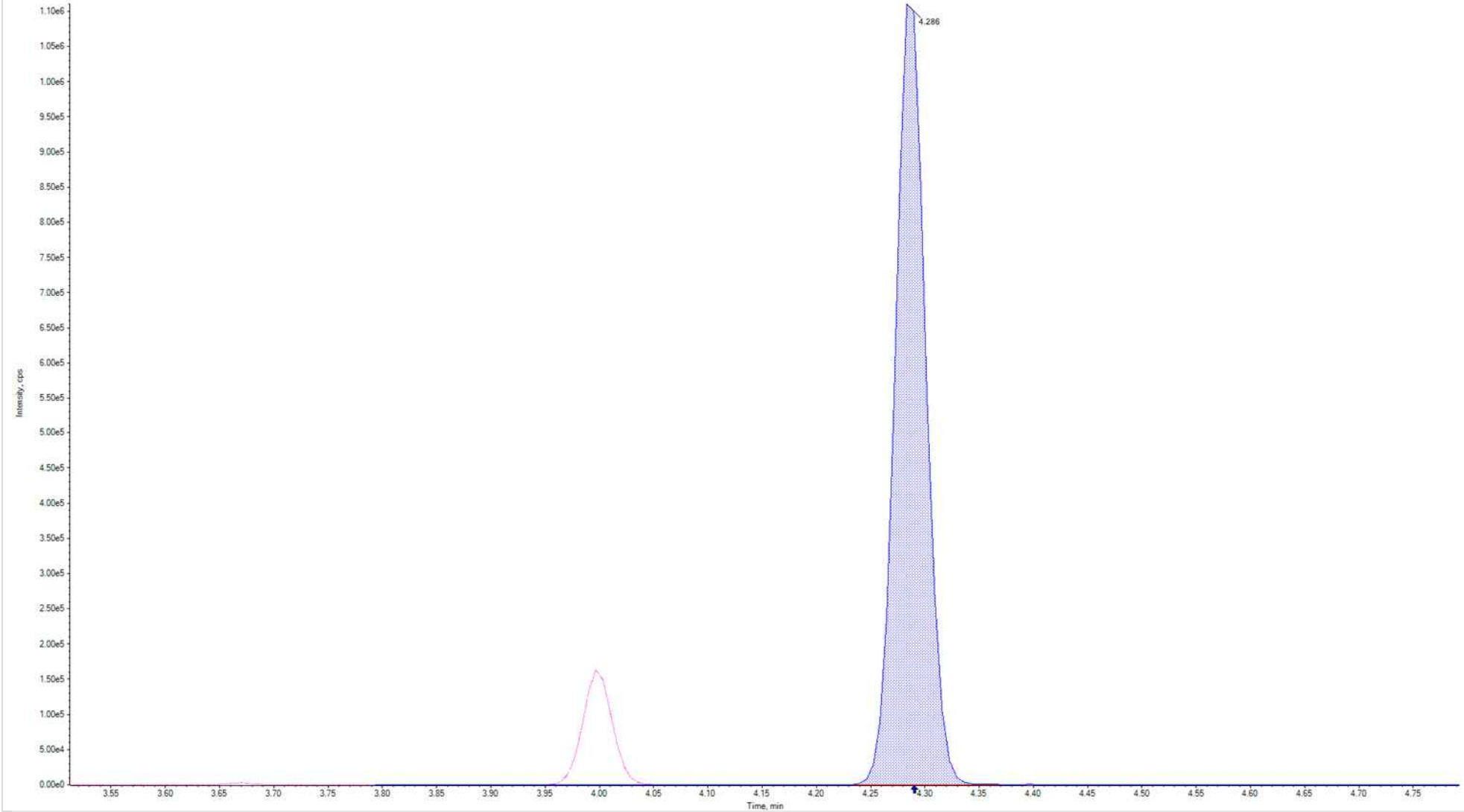
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
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ADONA_2
Sample: WG2038443-3R S/N:4165.3 Points Across peak:36



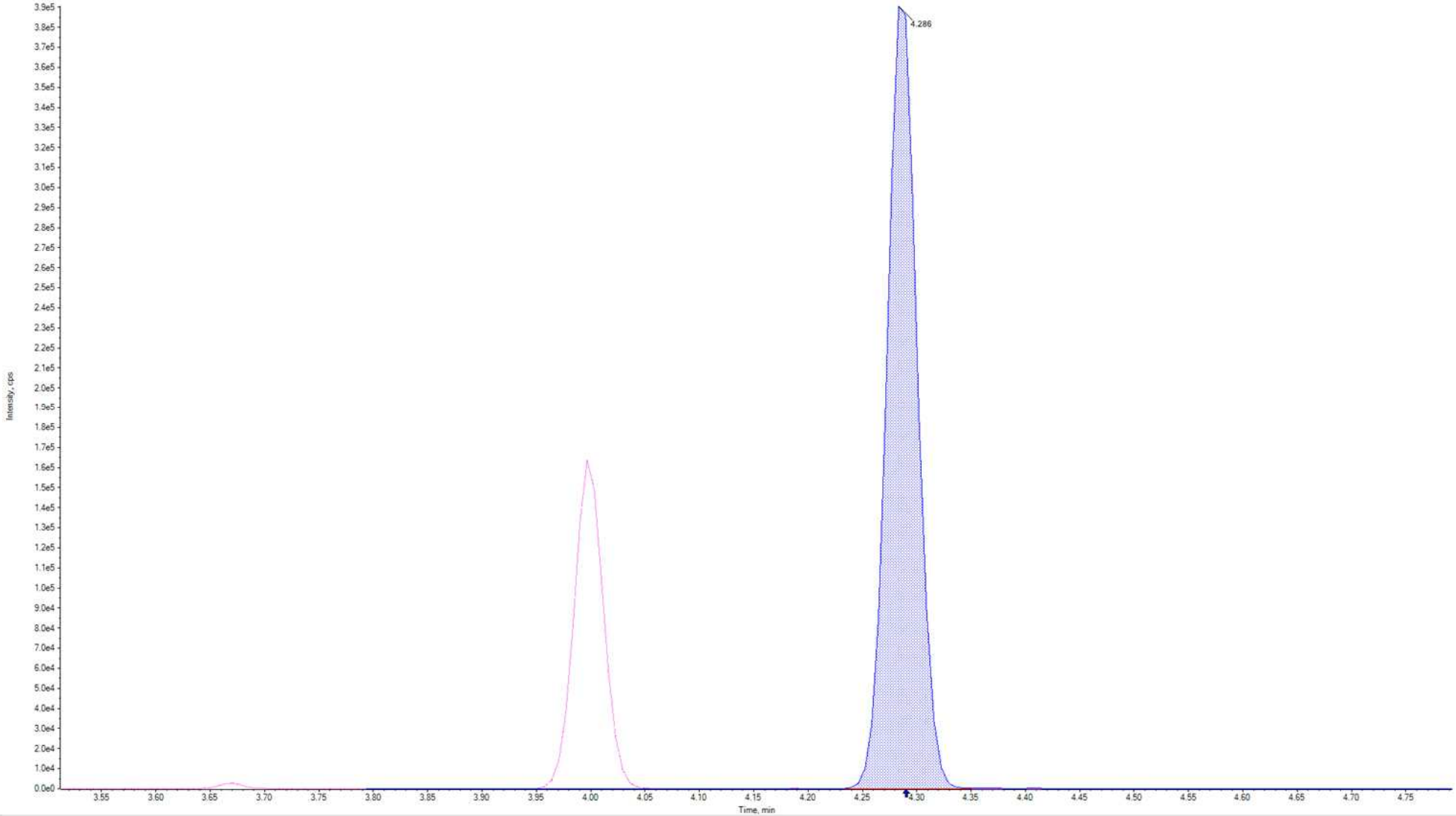
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

9Cl-PF3ONS
Sample: WG2038443-3R S/N:7924.4 Points Across peak:27



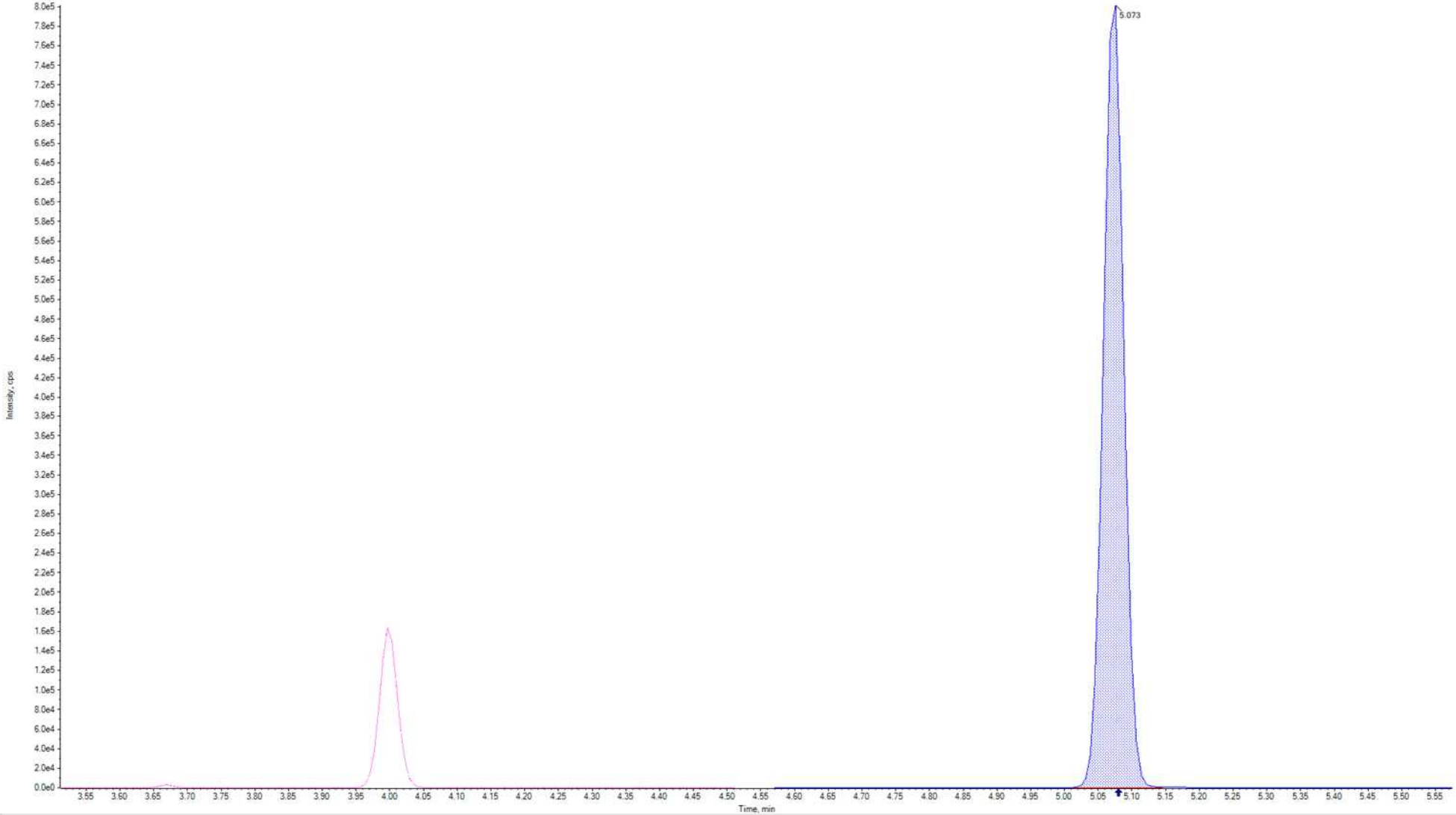
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

9Cl-PF3ONS_2
Sample: WG2038443-3R S/N:8810.3 Points Across peak:21



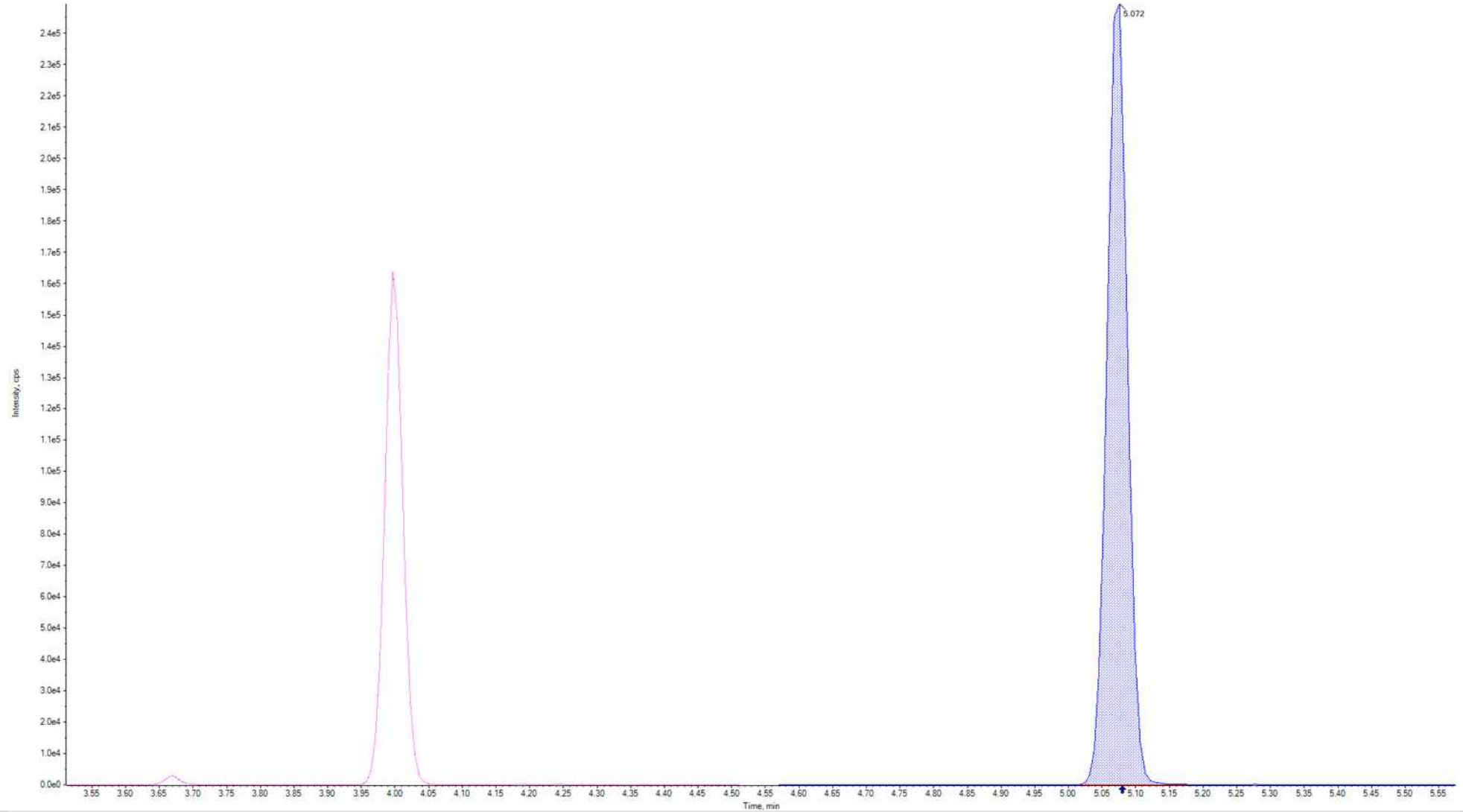
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Alpha Analytical LLC
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11Cl-PF3OUdS
Sample: WG2038443-3R S/N:38165.3 Points Across peak:22



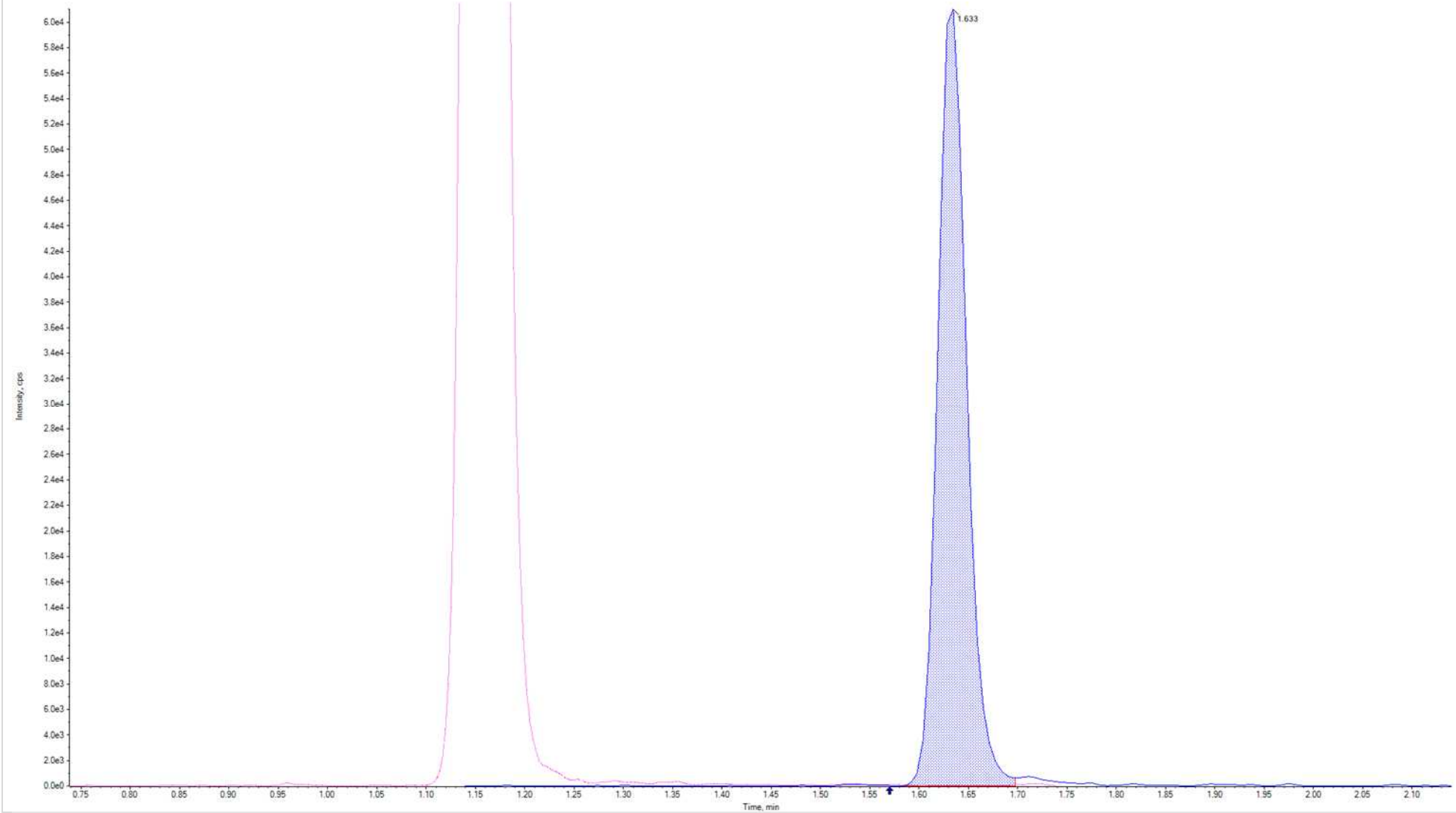
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

11Cl-PF3OUdS_2
Sample: WG2038443-3R S/N:6247.9 Points Across peak:28



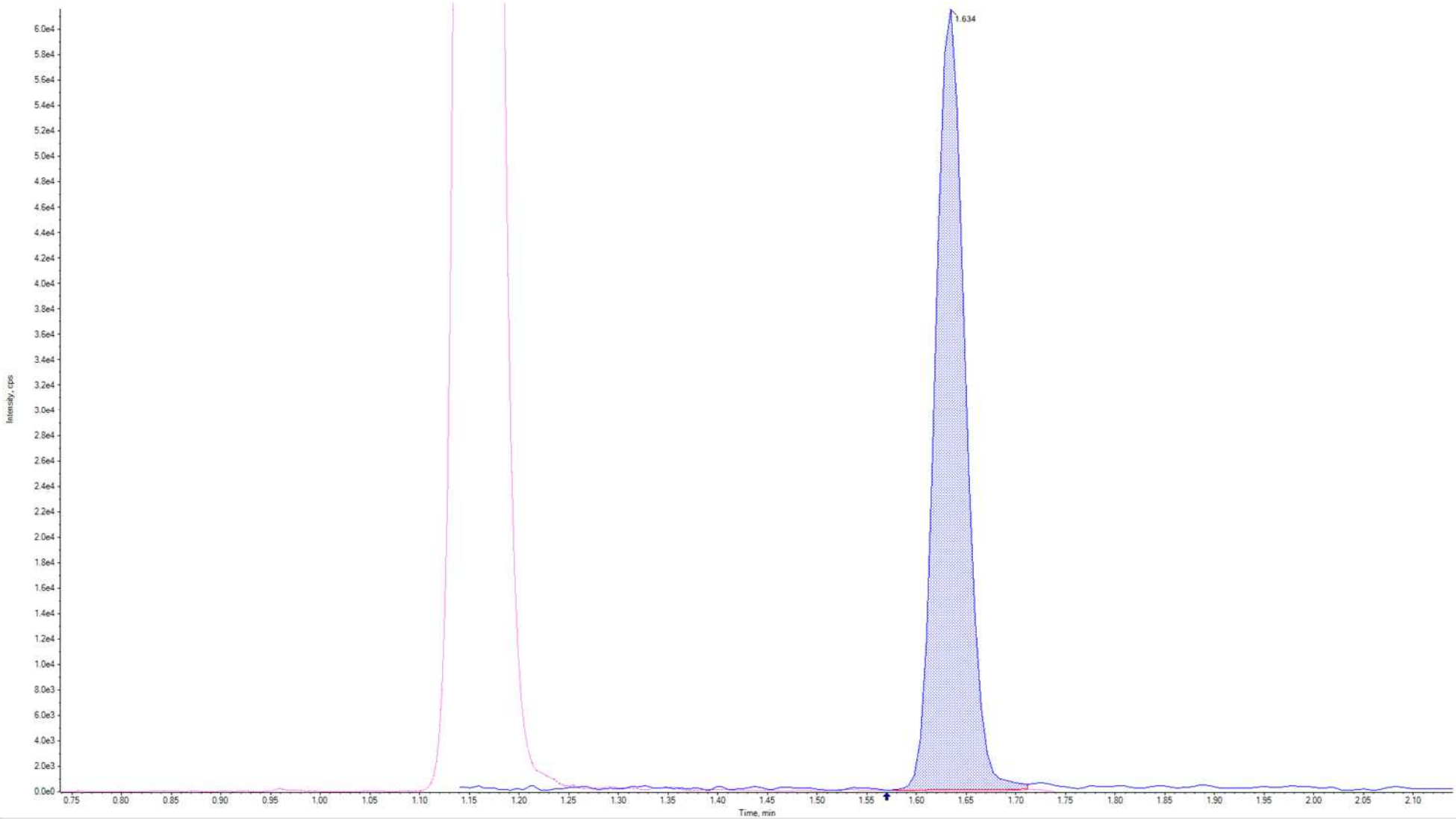
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Alpha Analytical LLC
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3:3FTCA
Sample: WG2038443-3R S/N:1529.6 Points Across peak:20



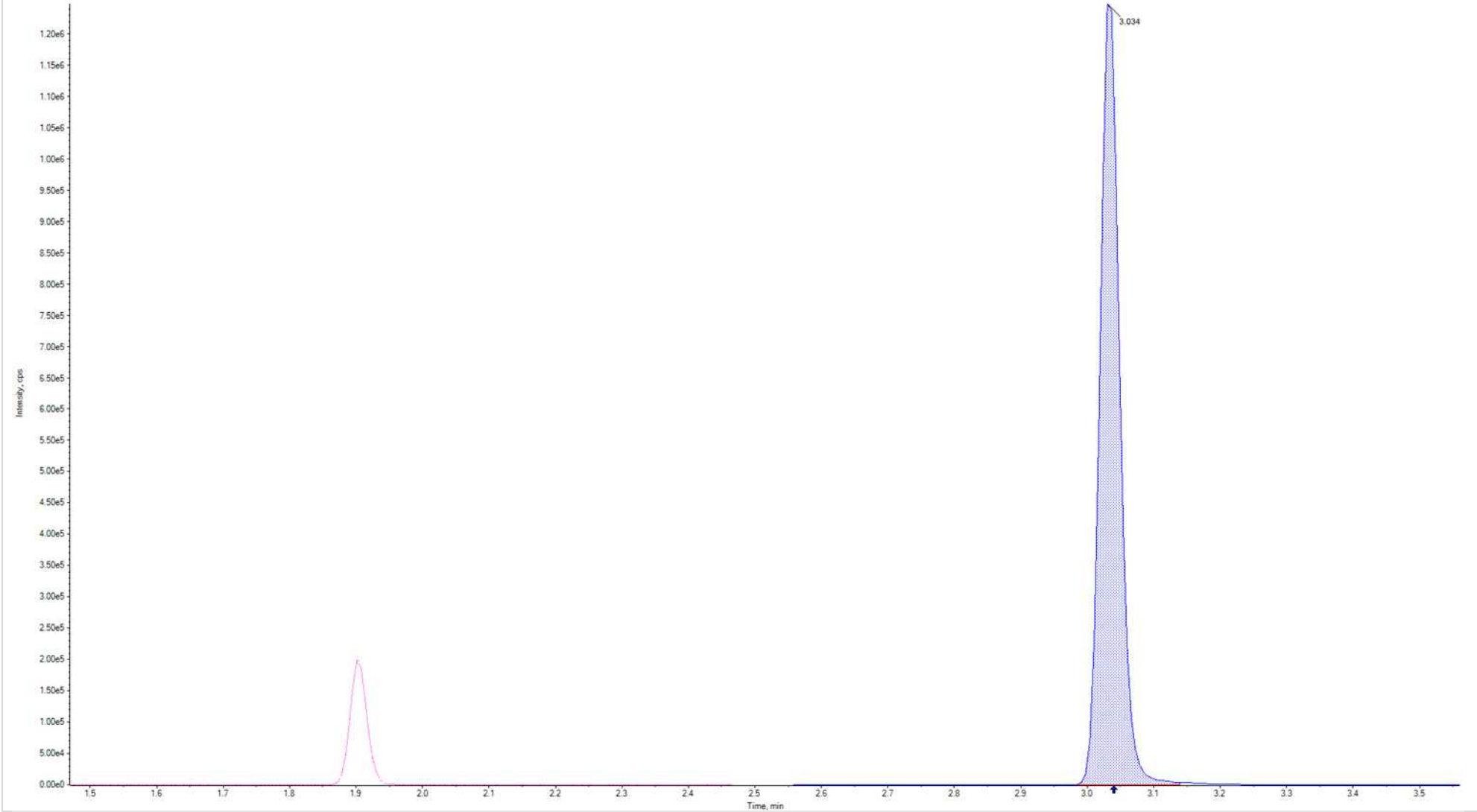
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3:3FTCA_2
Sample: WG2038443-3R S/N:1253.3 Points Across peak:23



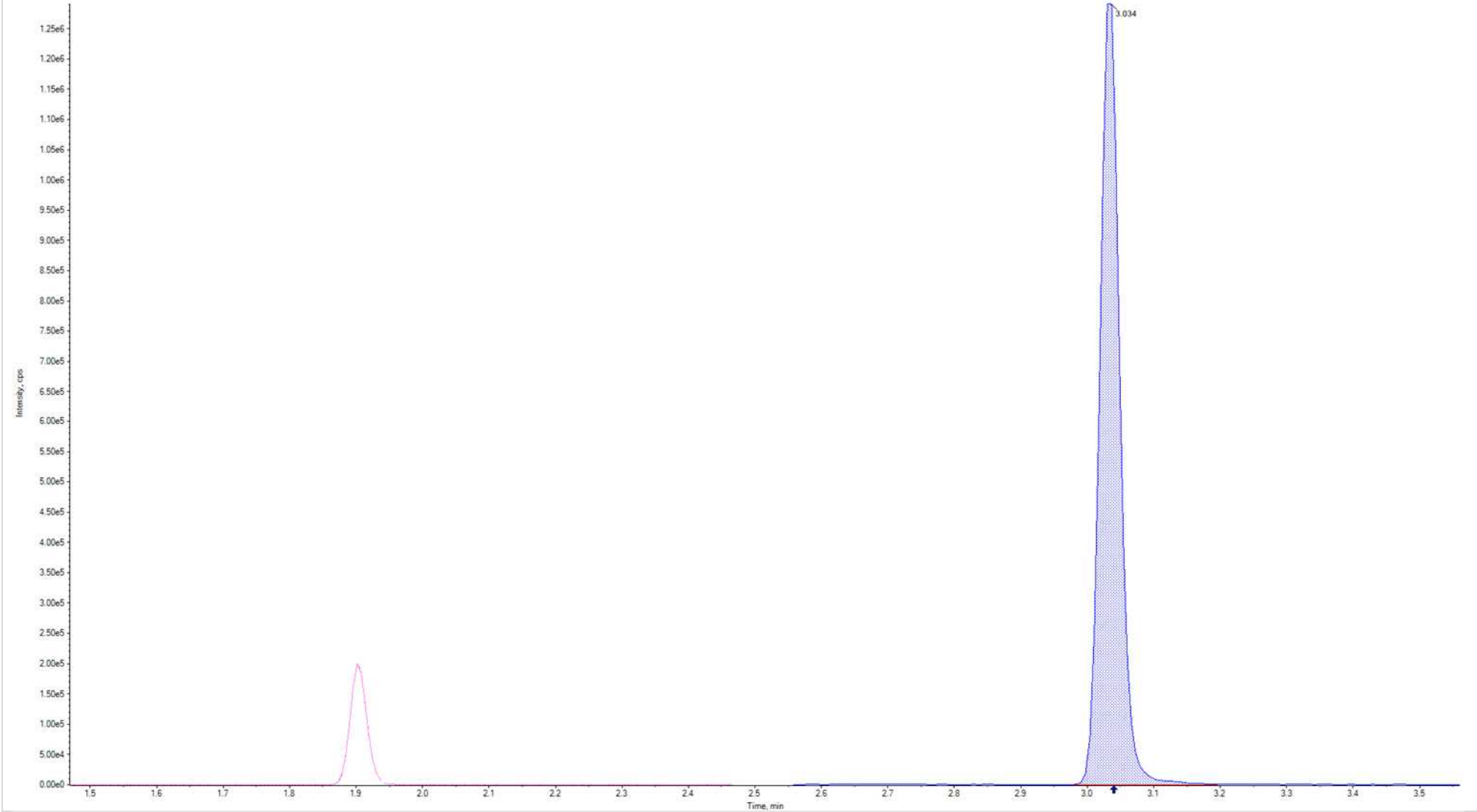
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

5:3FTCA
Sample: WG2038443-3R S/N:26197.3 Points Across peak:28



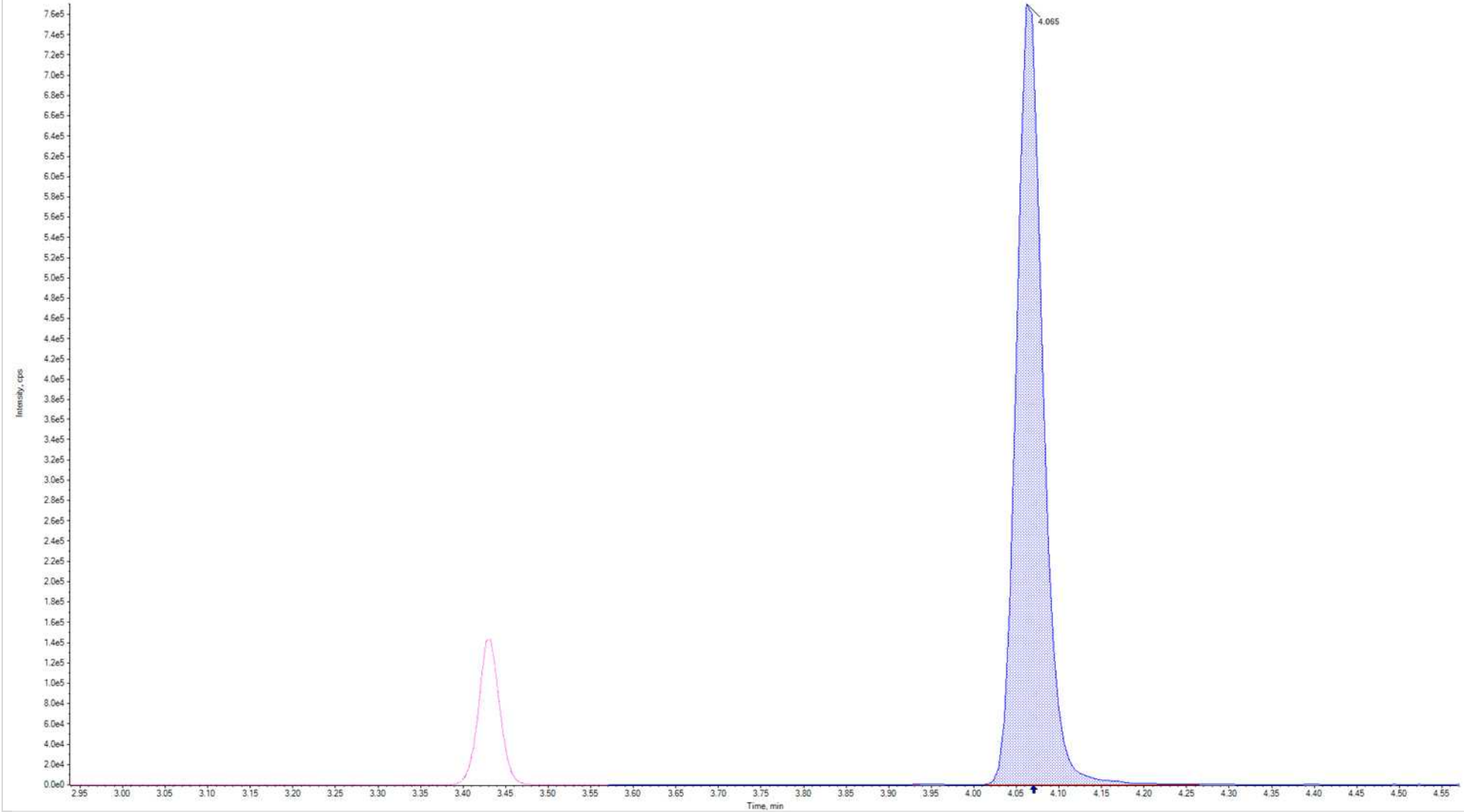
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5:3FTCA_2
Sample: WG2038443-3R S/N:3947.0 Points Across peak:39



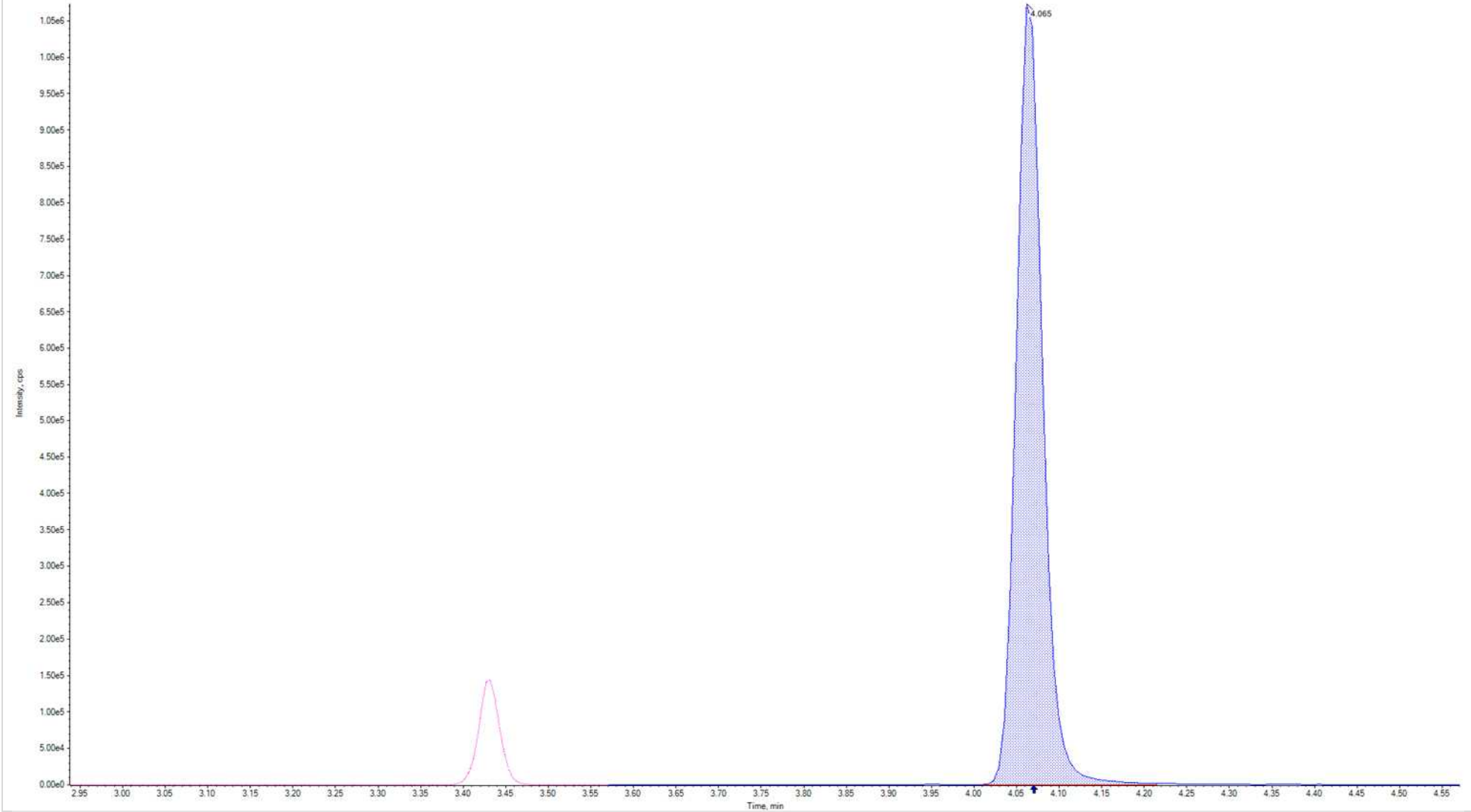
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
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7:3FTCA
Sample: WG2038443-3R S/N:21237.3 Points Across peak:42



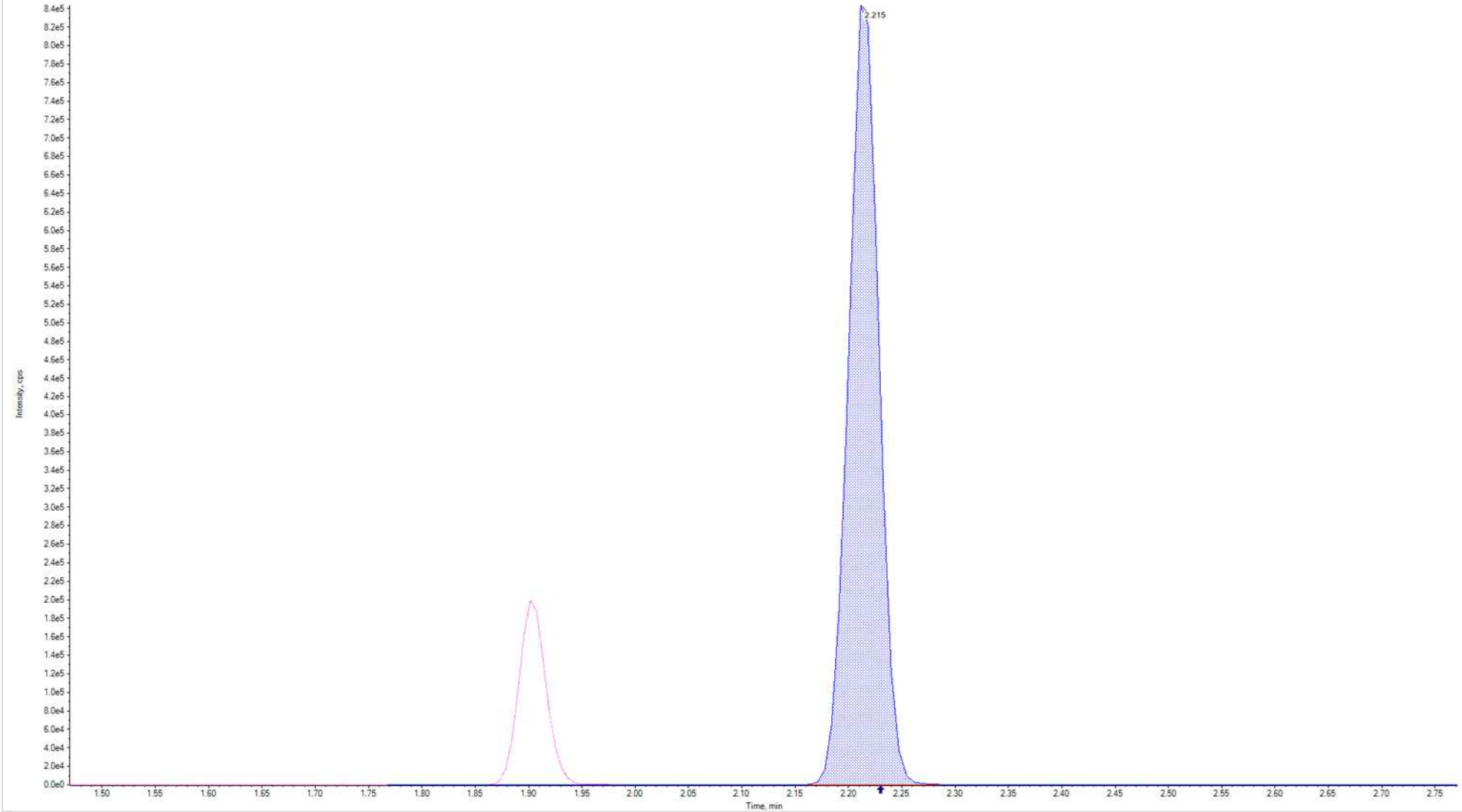
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

7:3FTCA_2
Sample: WG2038443-3R S/N:28156.4 Points Across peak:37



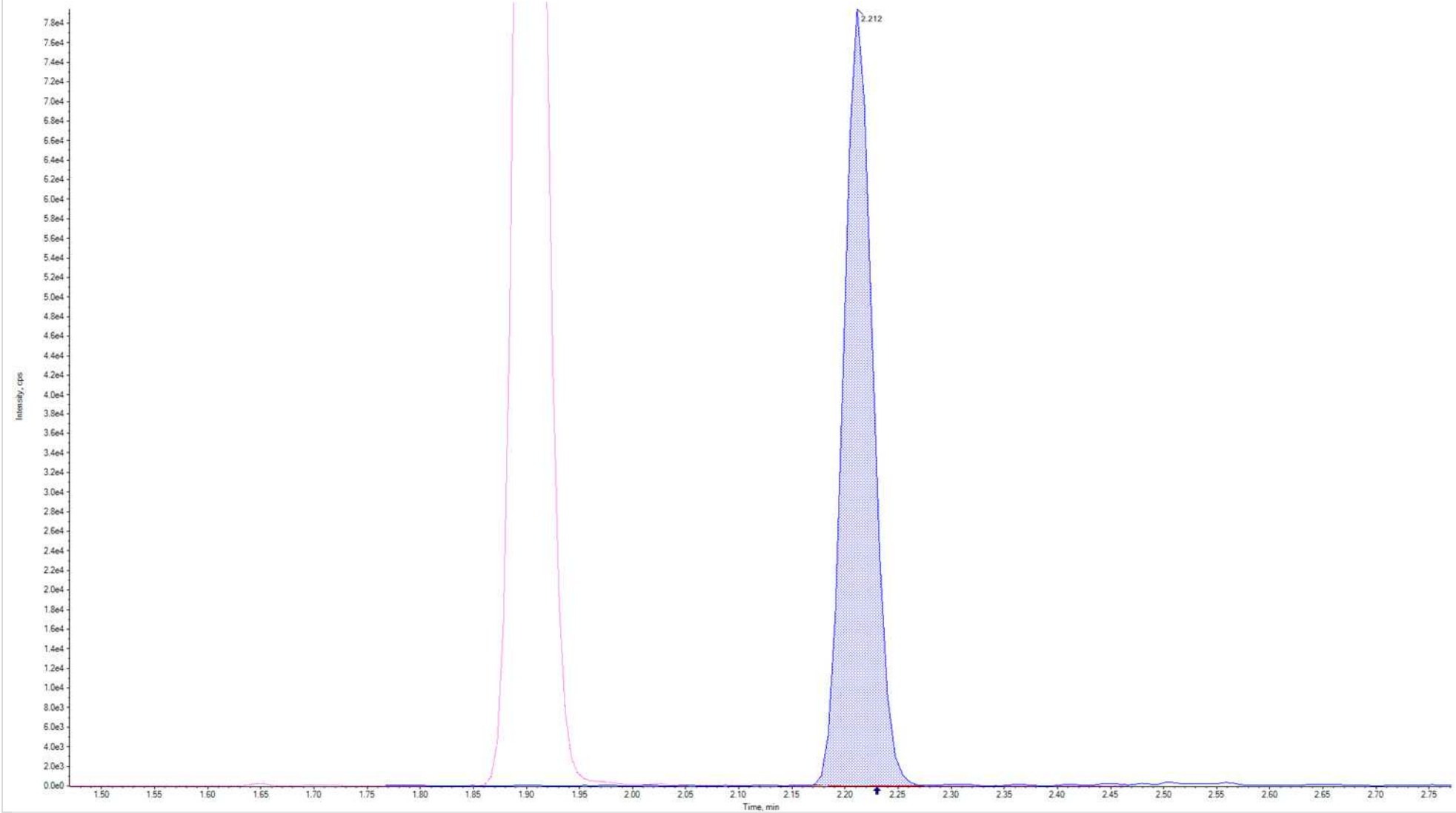
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFEESA
Sample: WG2038443-3R S/N:7821.0 Points Across peak:26



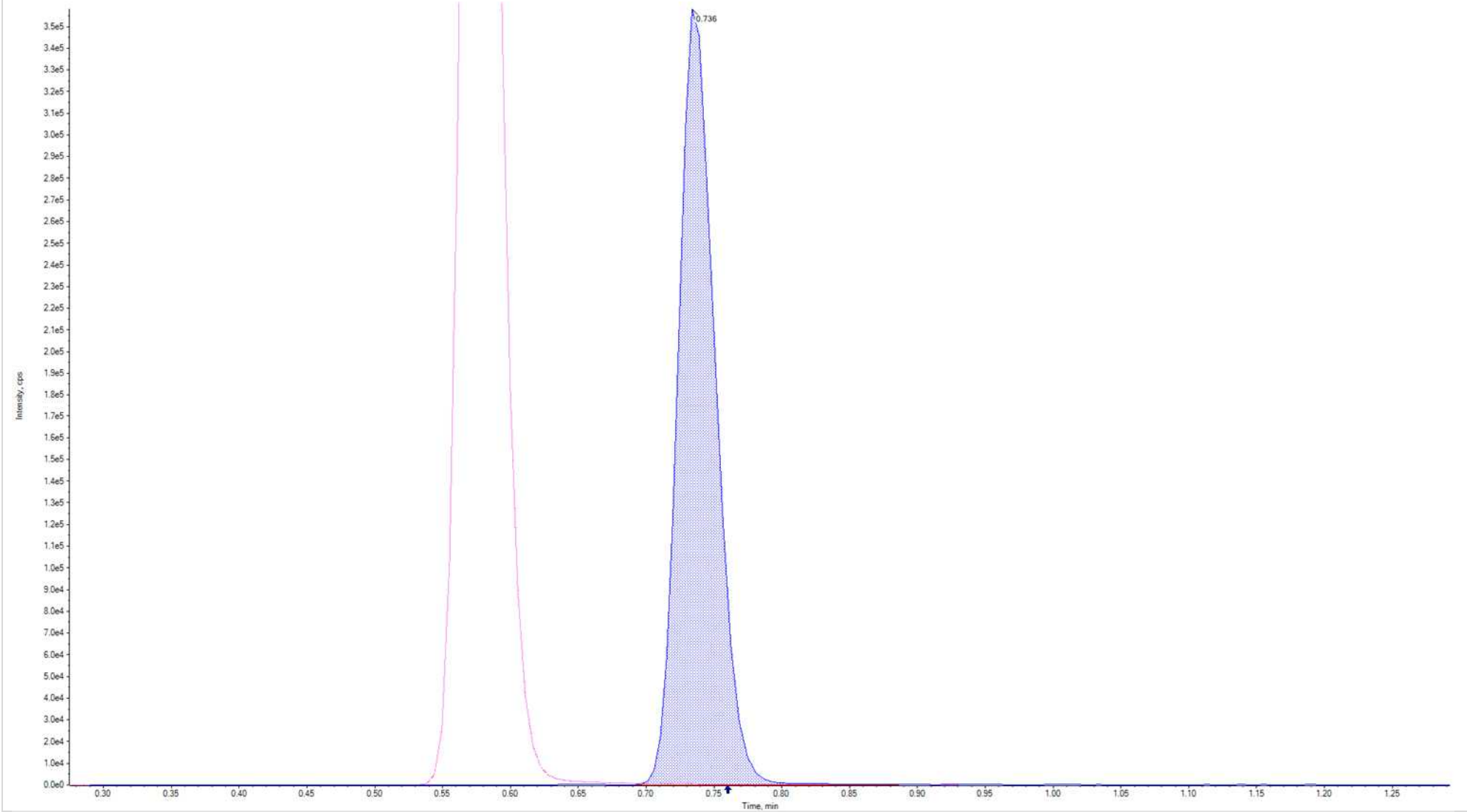
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

PFEESA_2
Sample: WG2038443-3R S/N:1791.4 Points Across peak:17



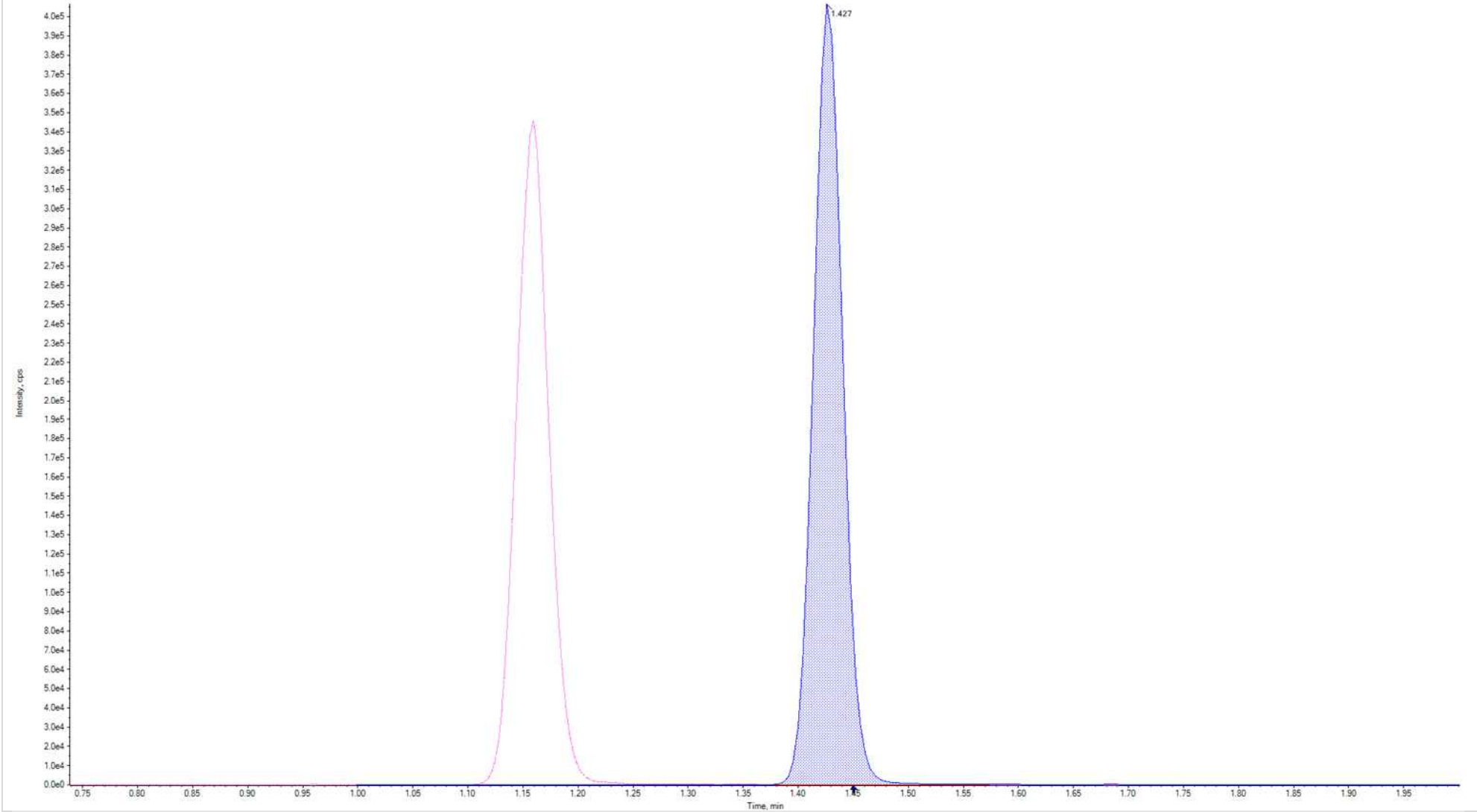
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFMPA
Sample: WG2038443-3R S/N:12495.4 Points Across peak:37



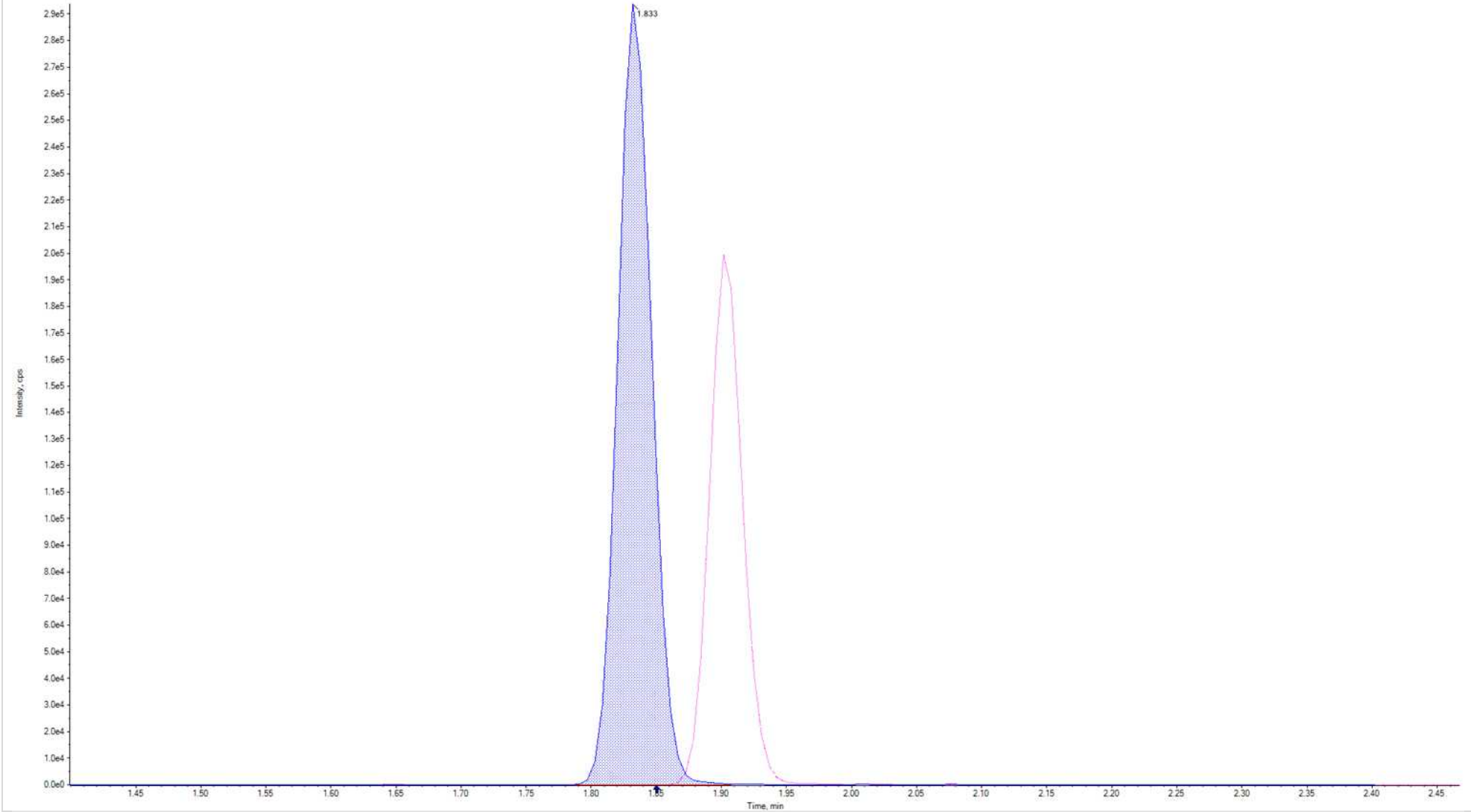
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

PFMBA
Sample: WG2038443-3R S/N:23441.1 Points Across peak:42



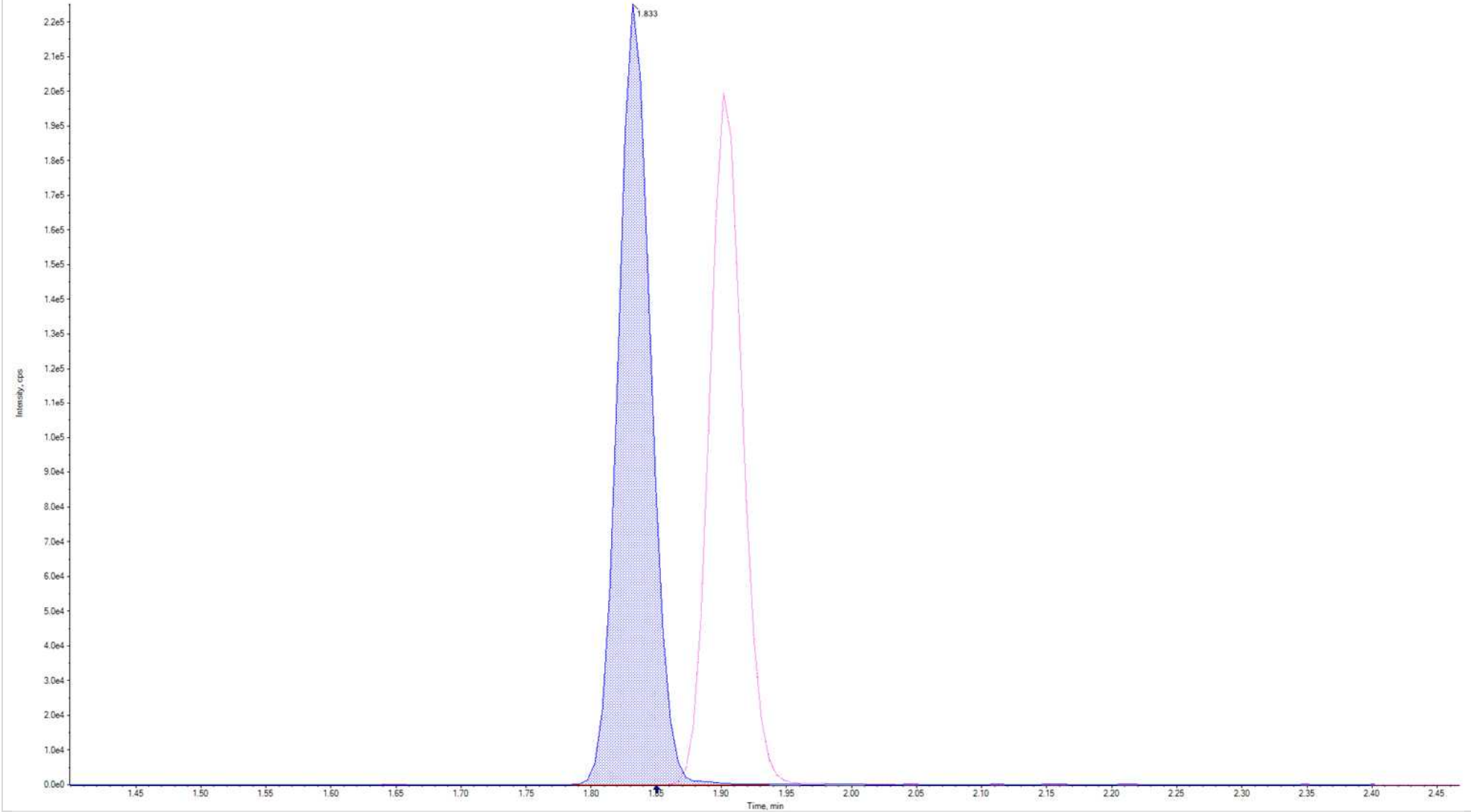
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_45.wiff2_4
Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

NFDHA
Sample: WG2038443-3R S/N:8100.5 Points Across peak:25



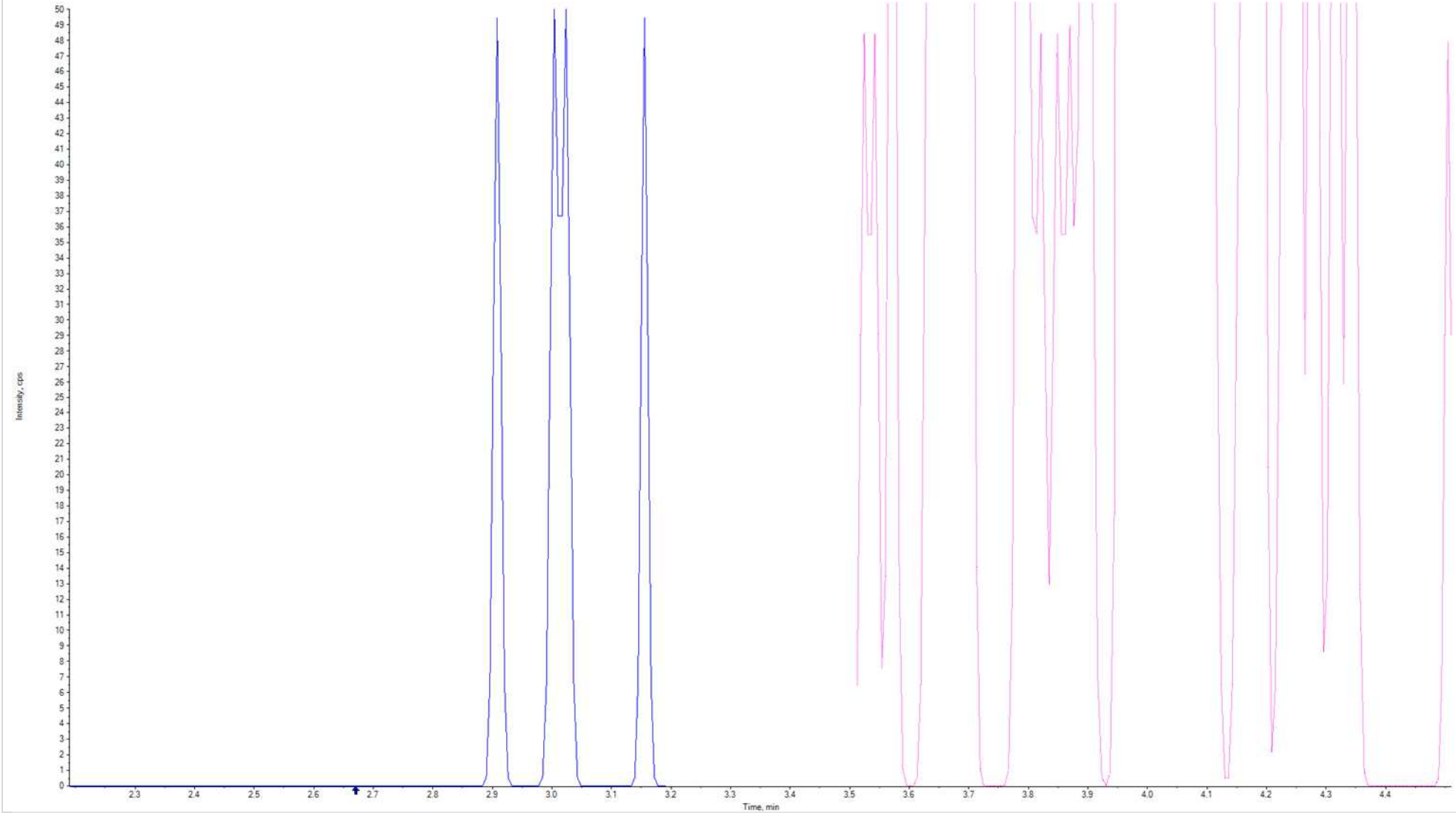
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

NFDHA_2
Sample: WG2038443-3R S/N:3440.6 Points Across peak:29



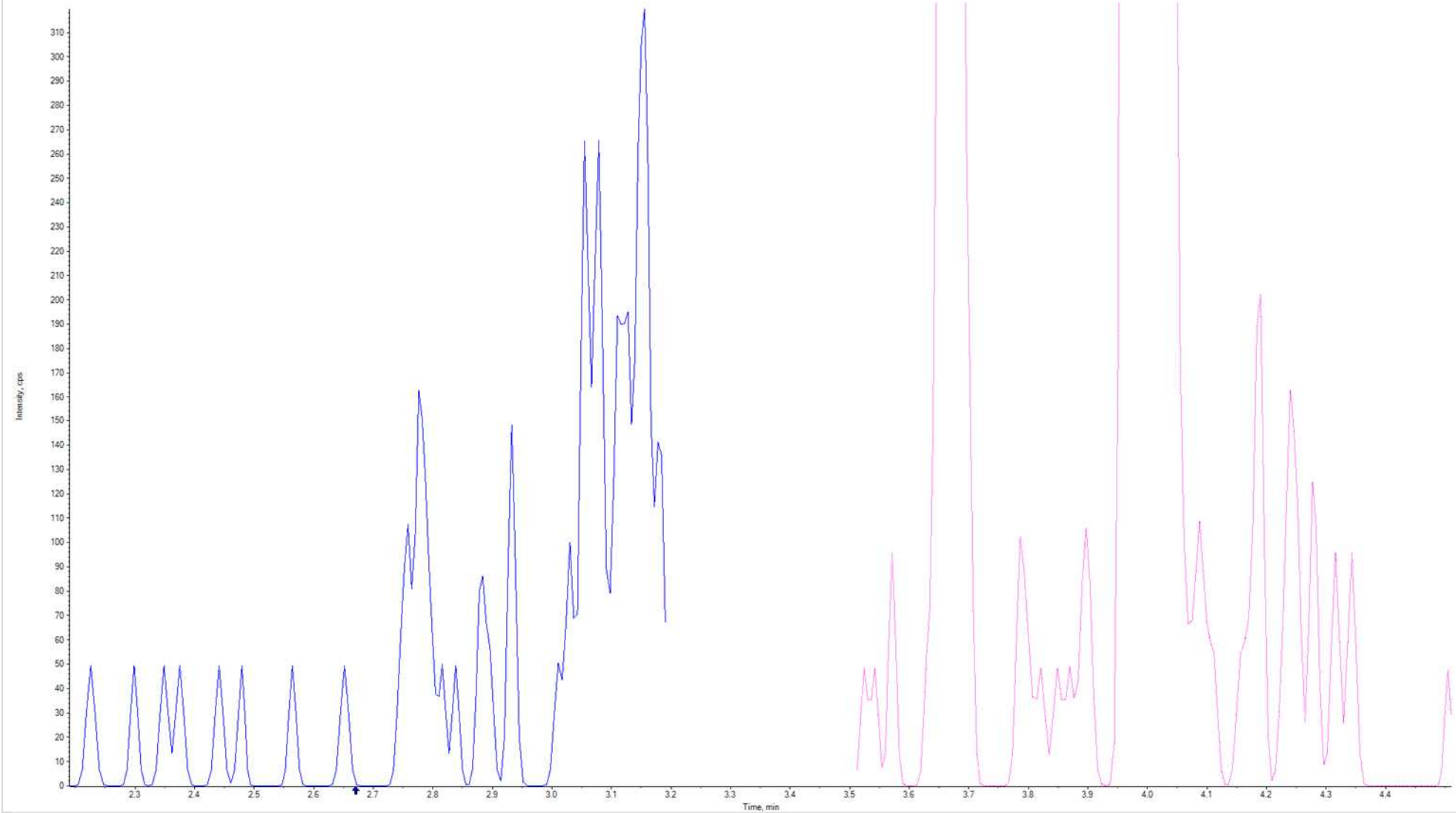
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
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TDCA
Sample: WG2038443-3R S/N:N/A Points Across peak:N/A



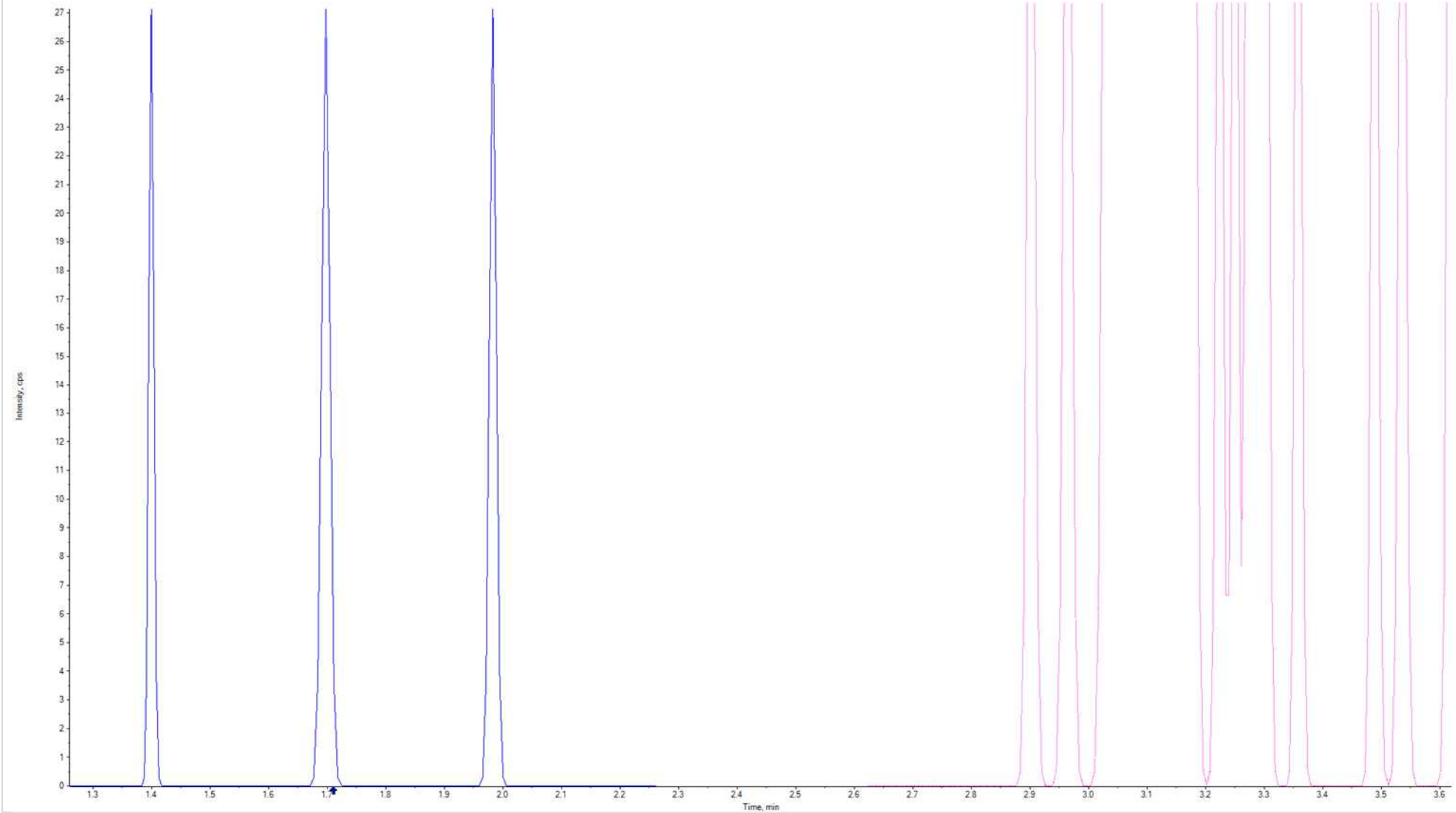
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TDCA_2
Sample: WG2038443-3R S/N:N/A Points Across peak:N/A



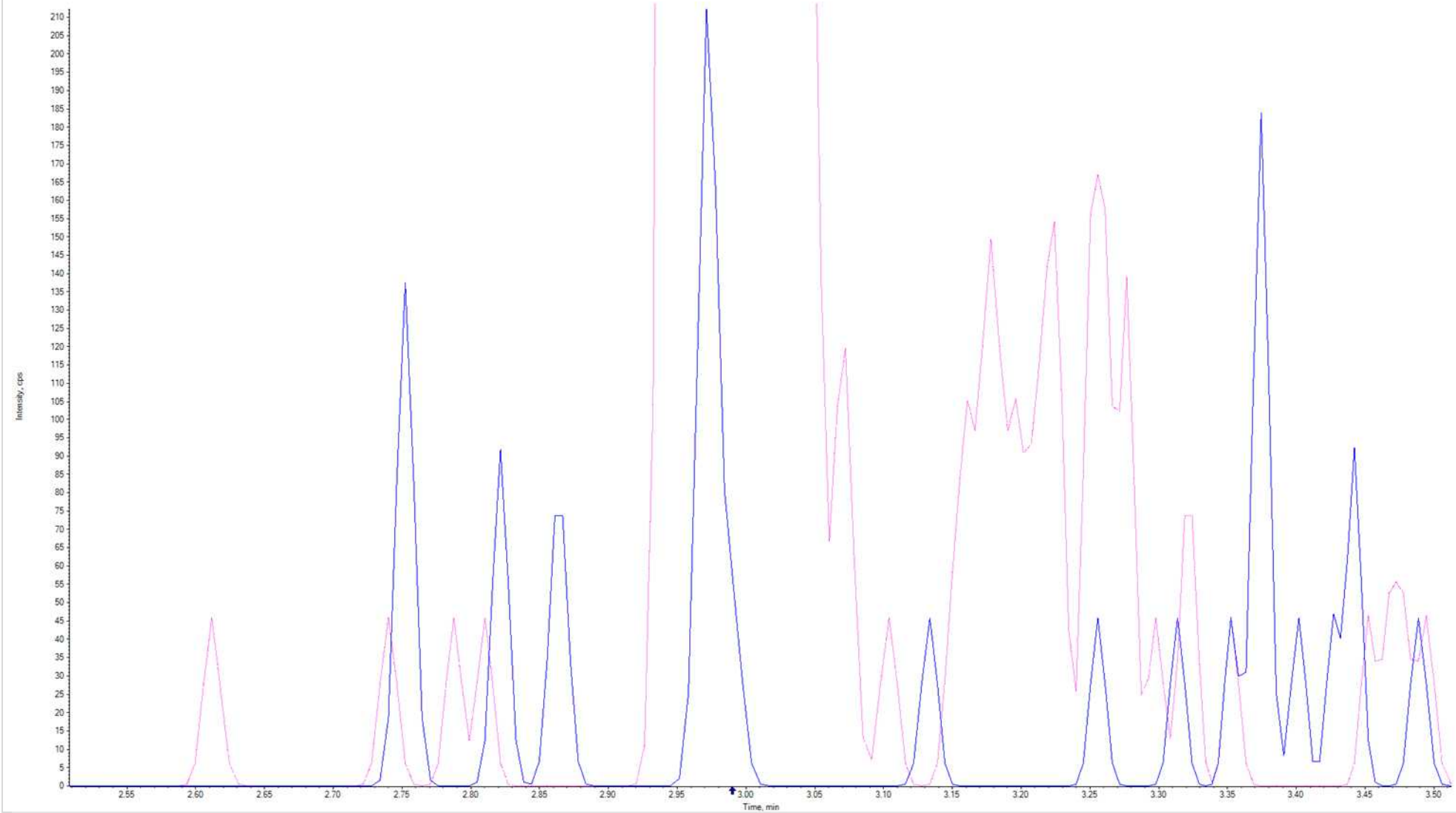
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13C2D4-4:2FTS
Sample: WG2038443-3R S/N:N/A Points Across peak:N/A

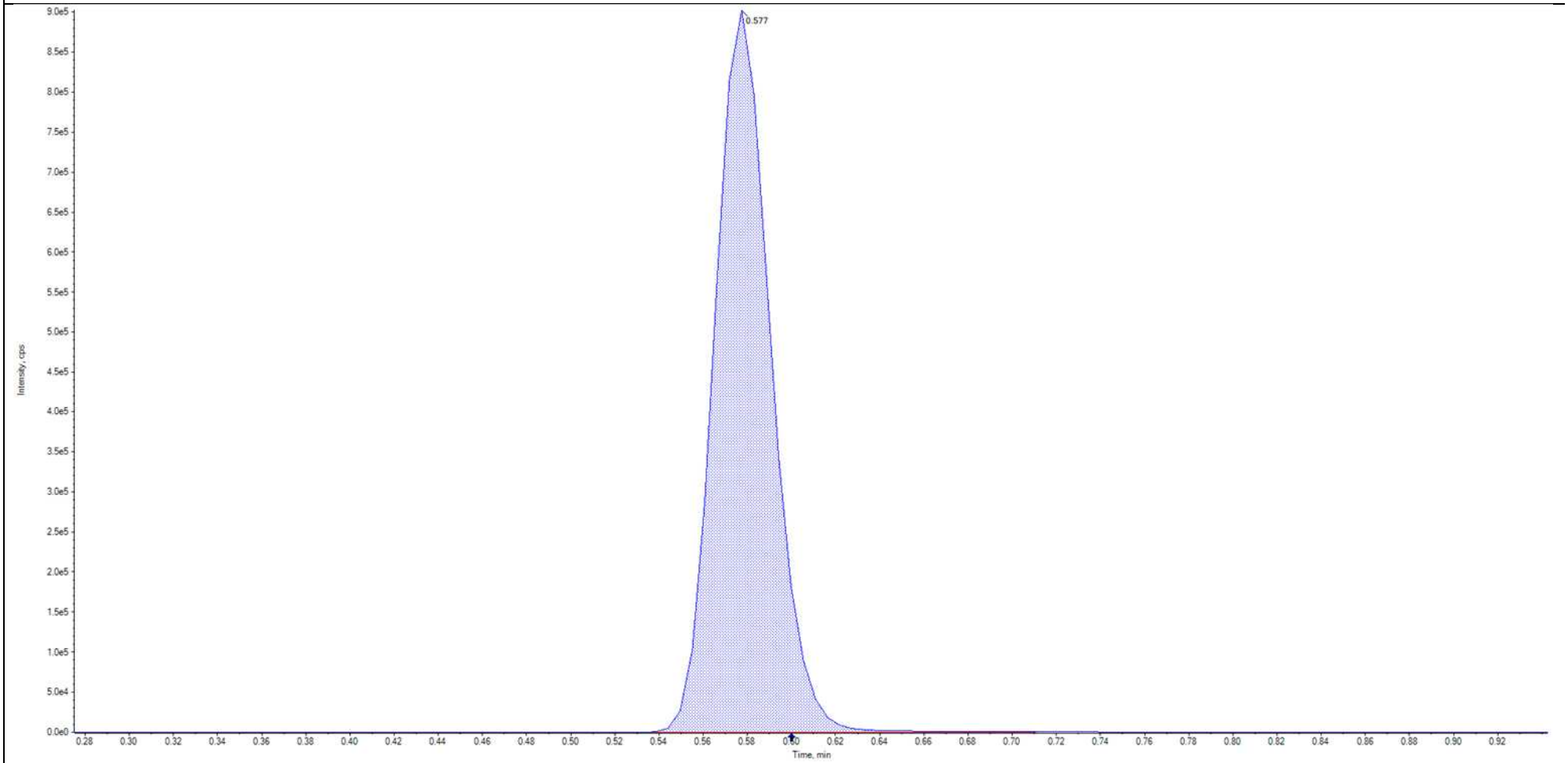


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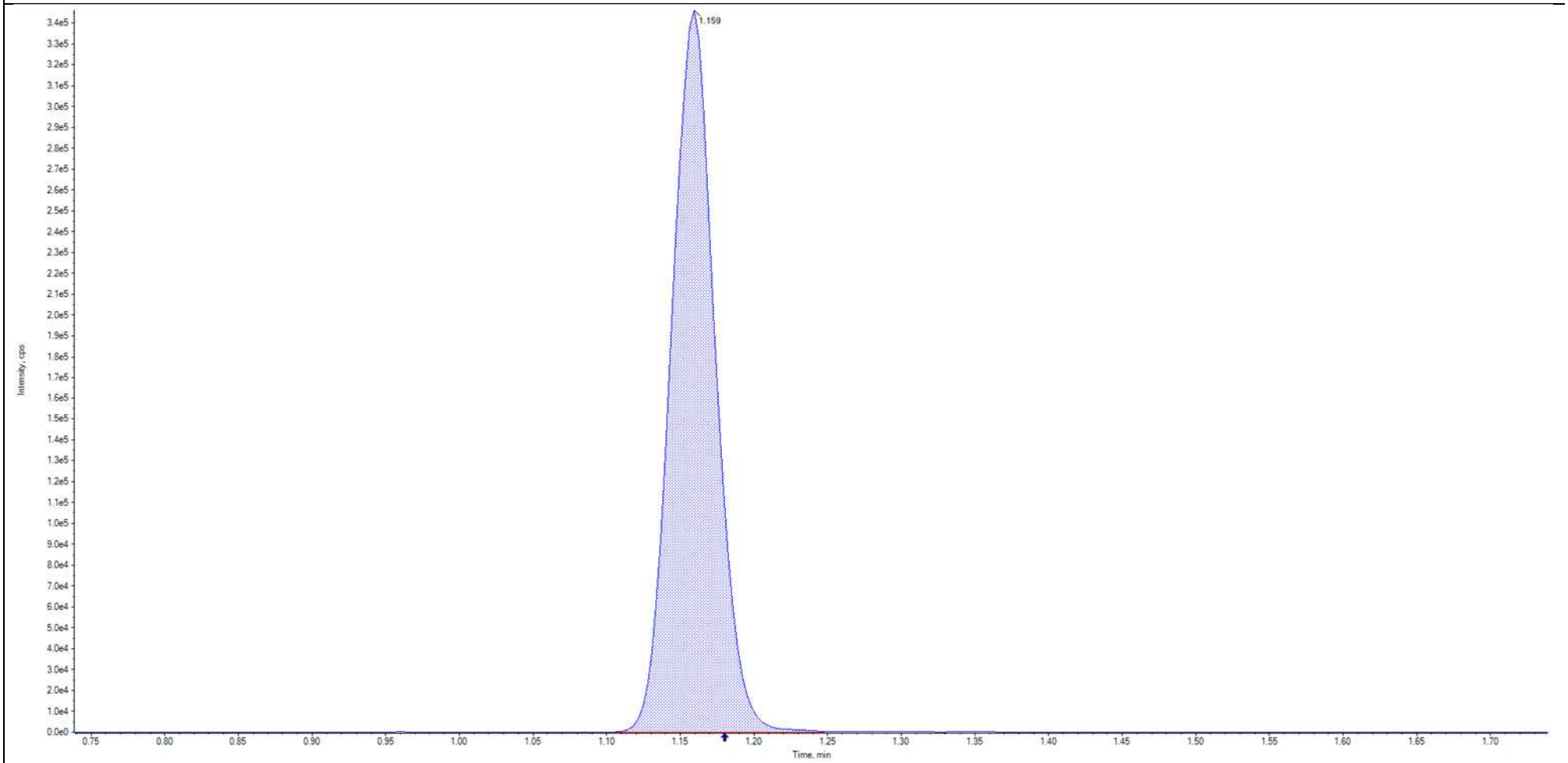
13C2-PFOA
Sample: WG2038443-3R S/N:N/A Points Across peak:N/A



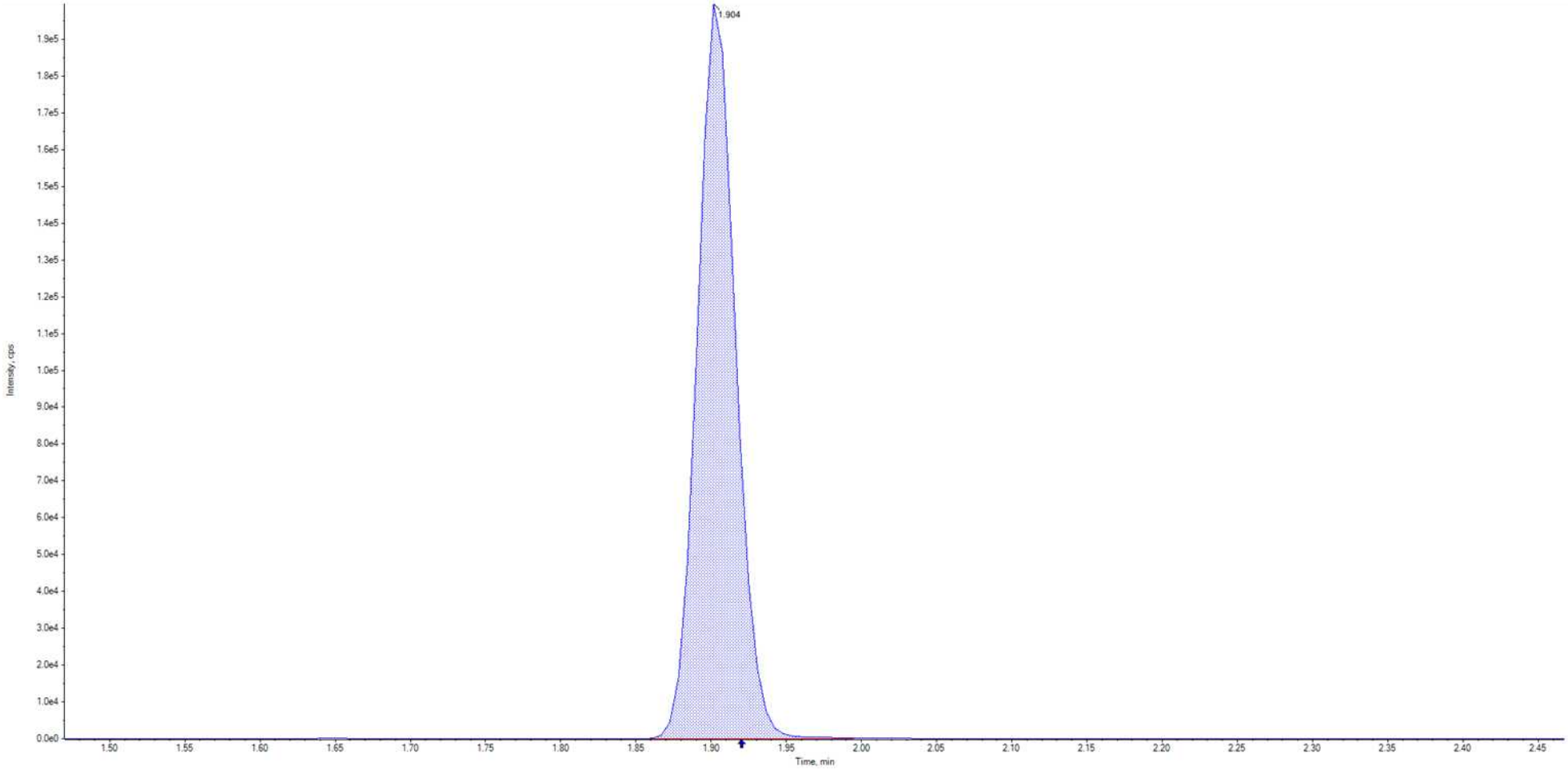
13C4-PFBA
Sample: WG2038443-3R



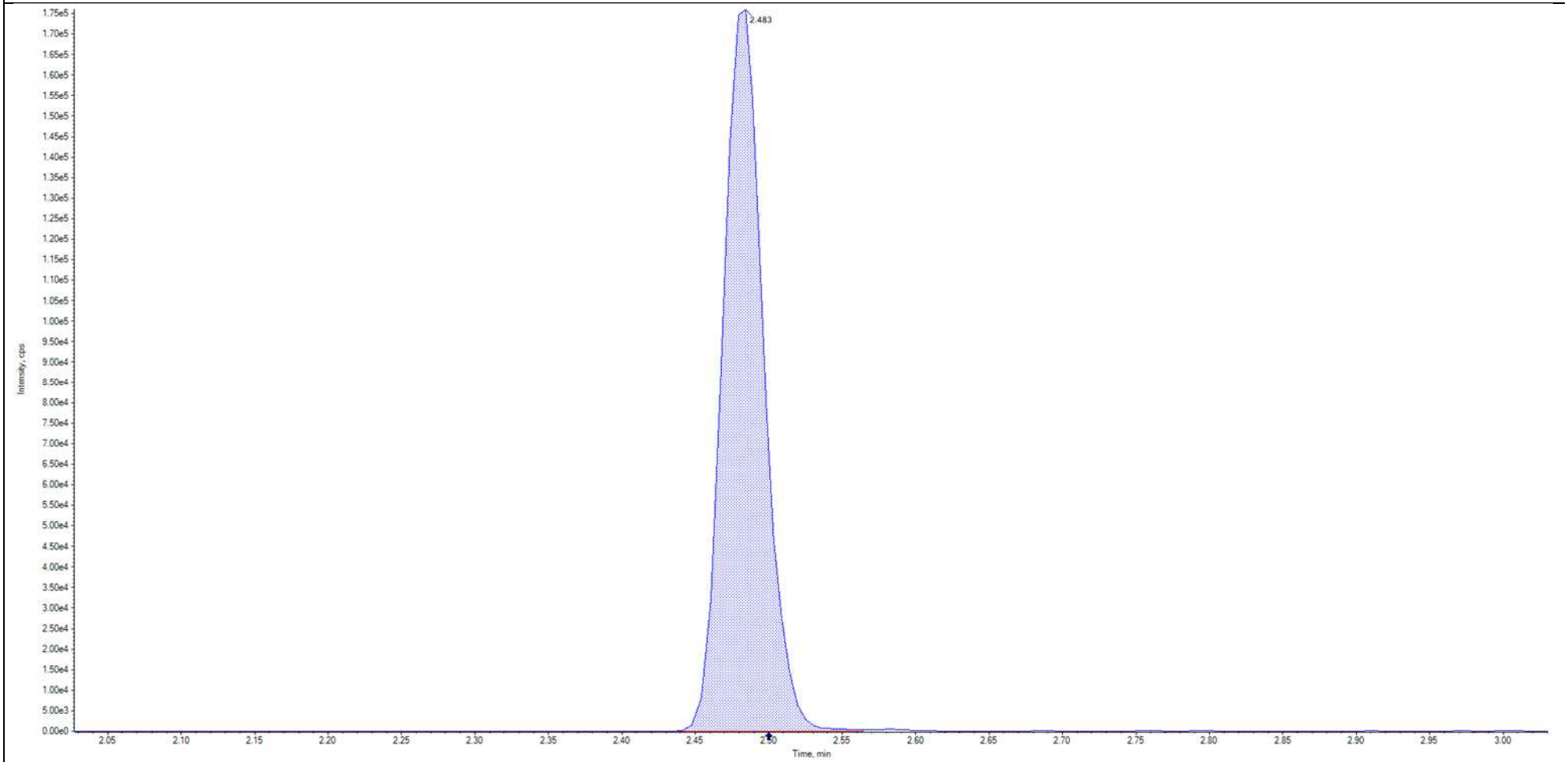
13C5-PFPeA
Sample: WG2038443-3R



13C5-PFHxA
Sample: WG2038443-3R

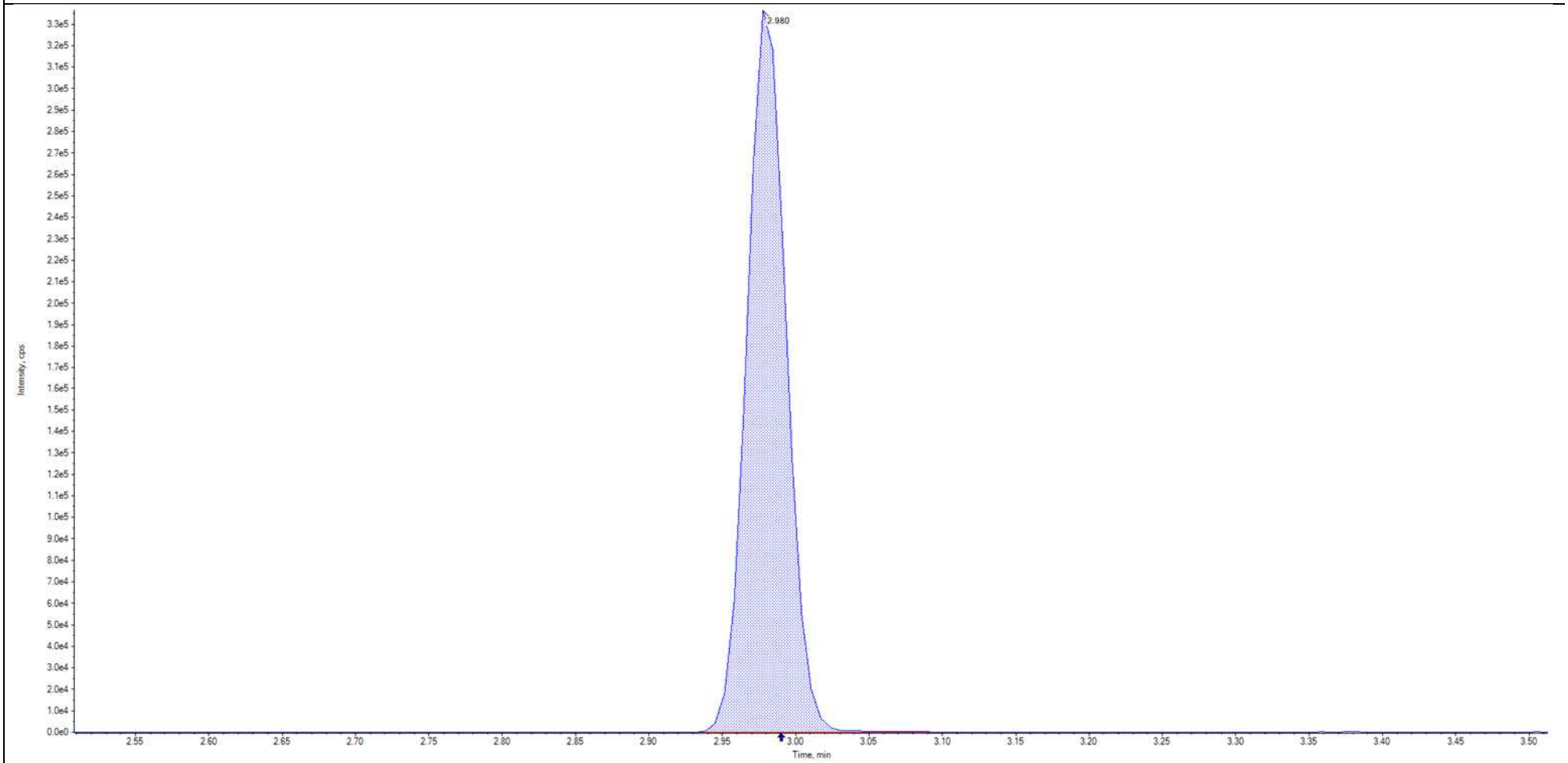


13C4-PFHpA
Sample: WG2038443-3R

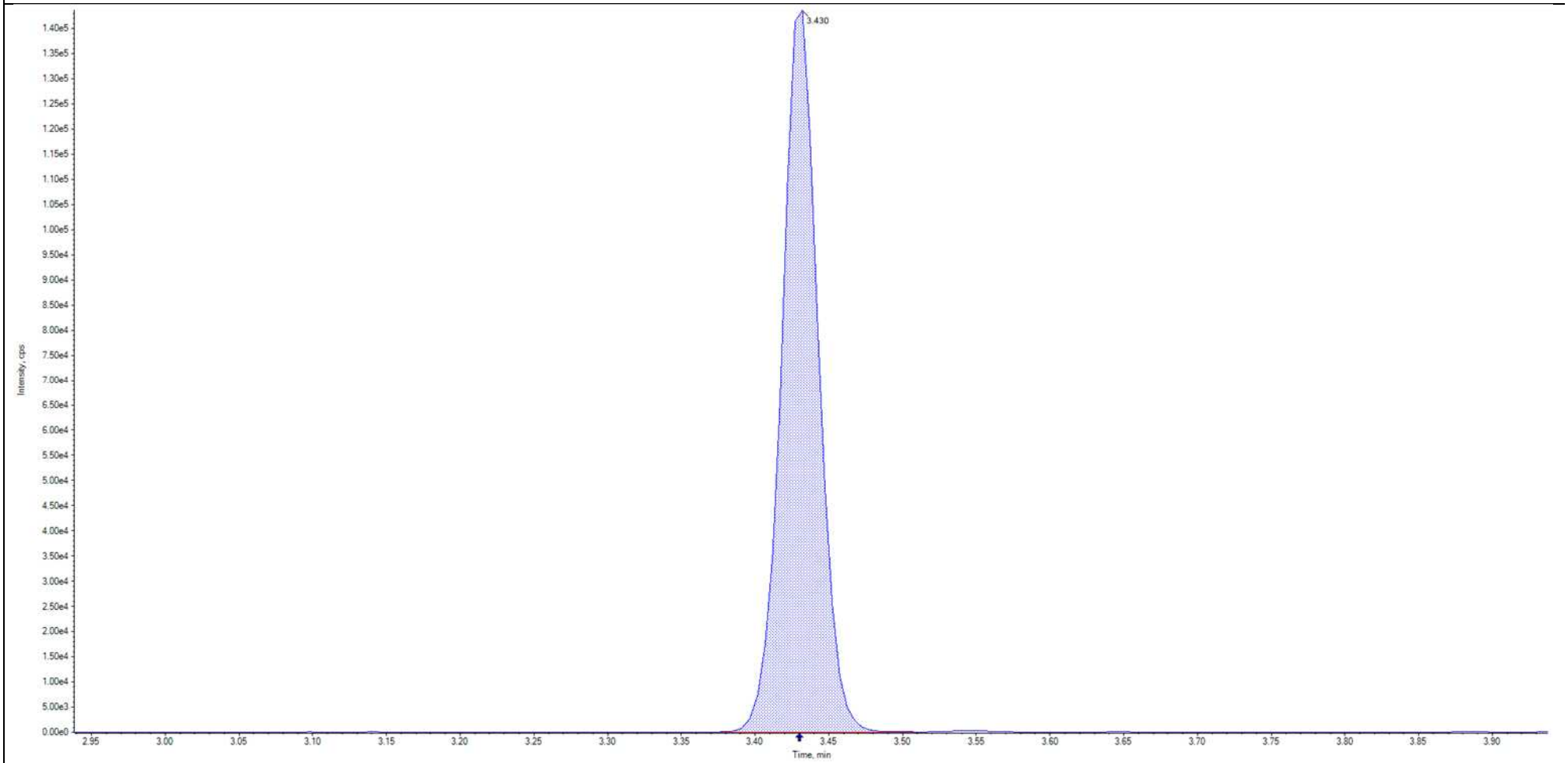


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Alpha Analytical LLC
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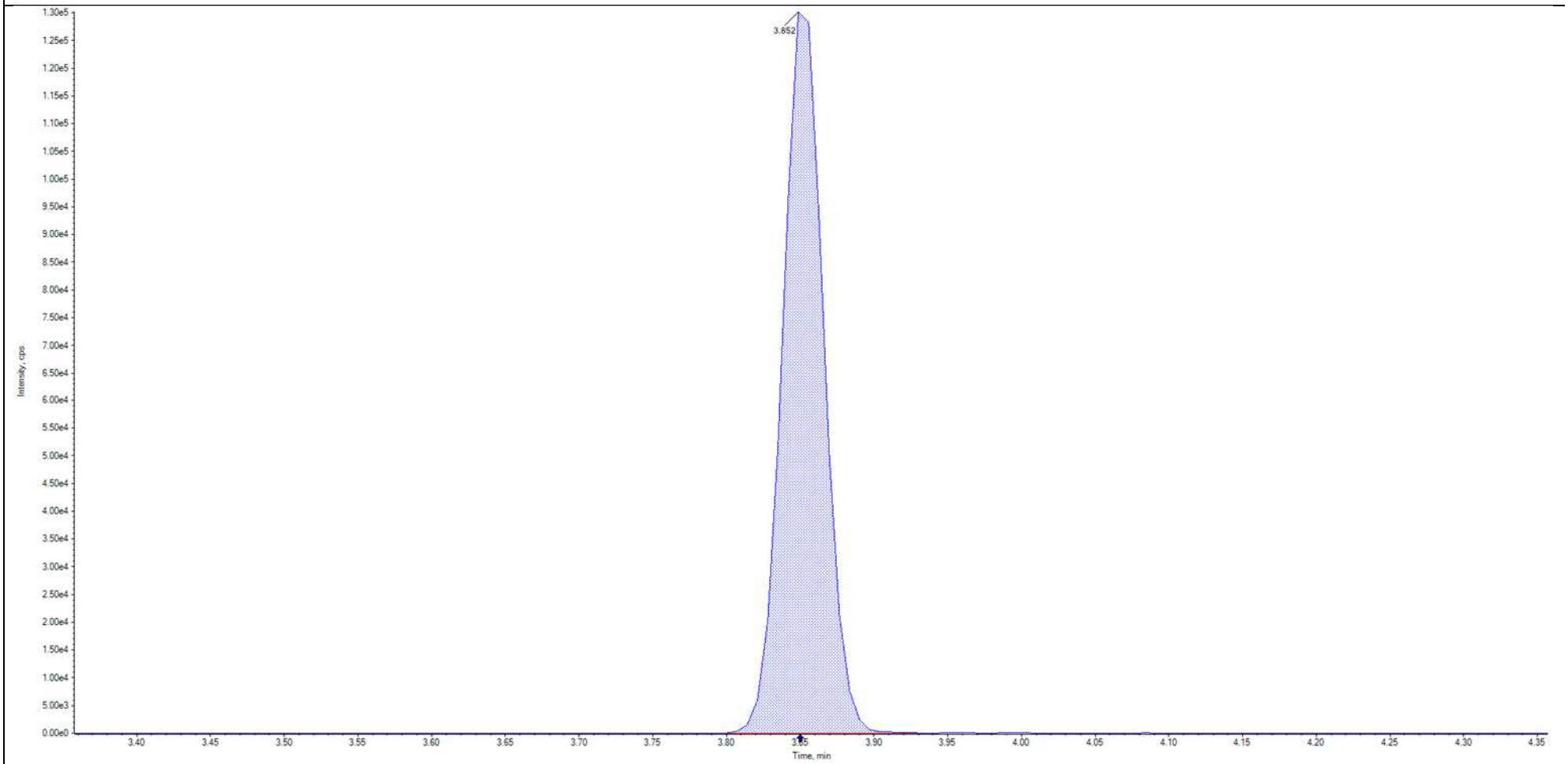
13C8-PFOA
Sample: WG2038443-3R



13C9-PFNA
Sample: WG2038443-3R

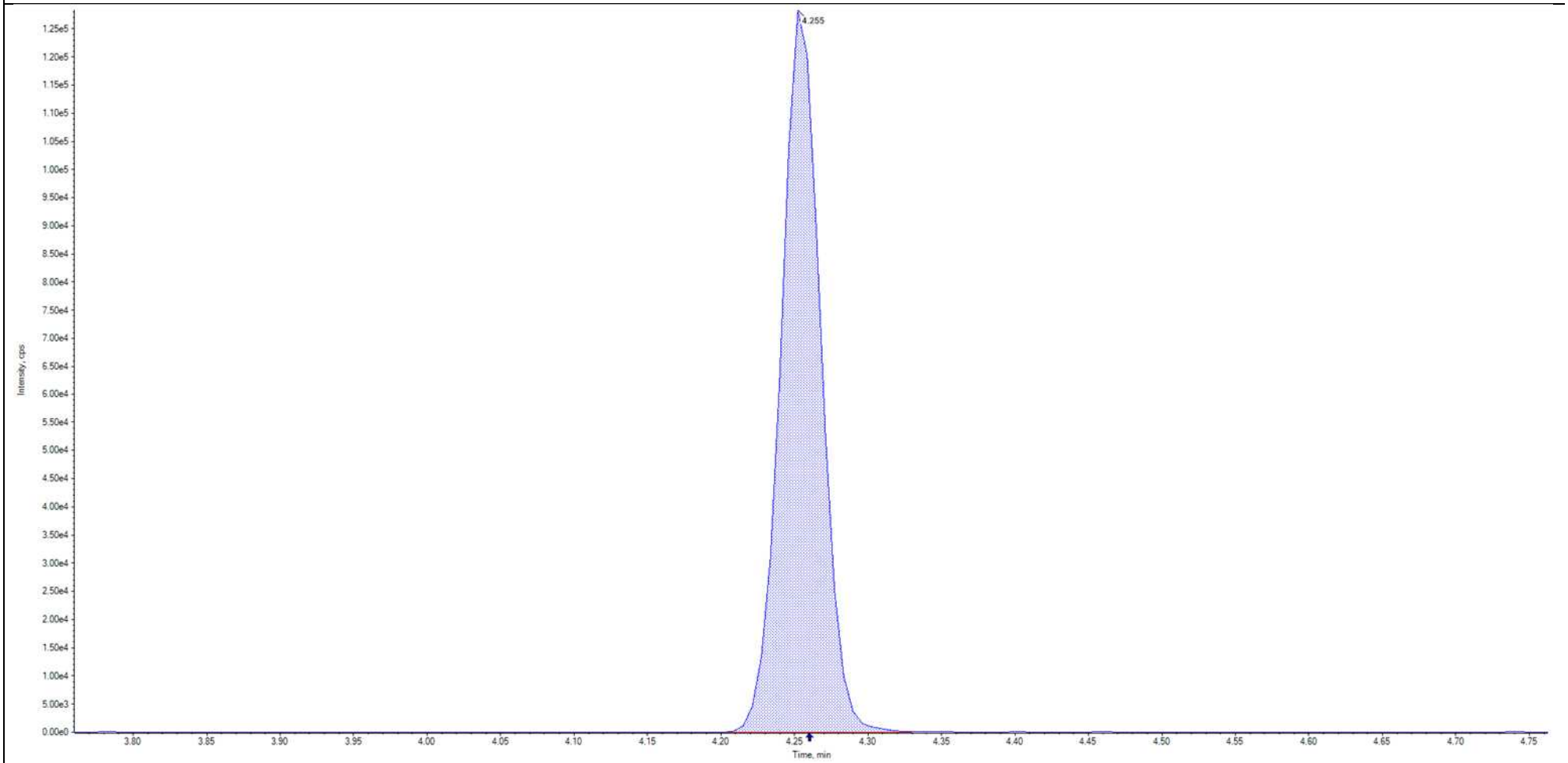


13C6-PFDA
Sample: WG2038443-3R



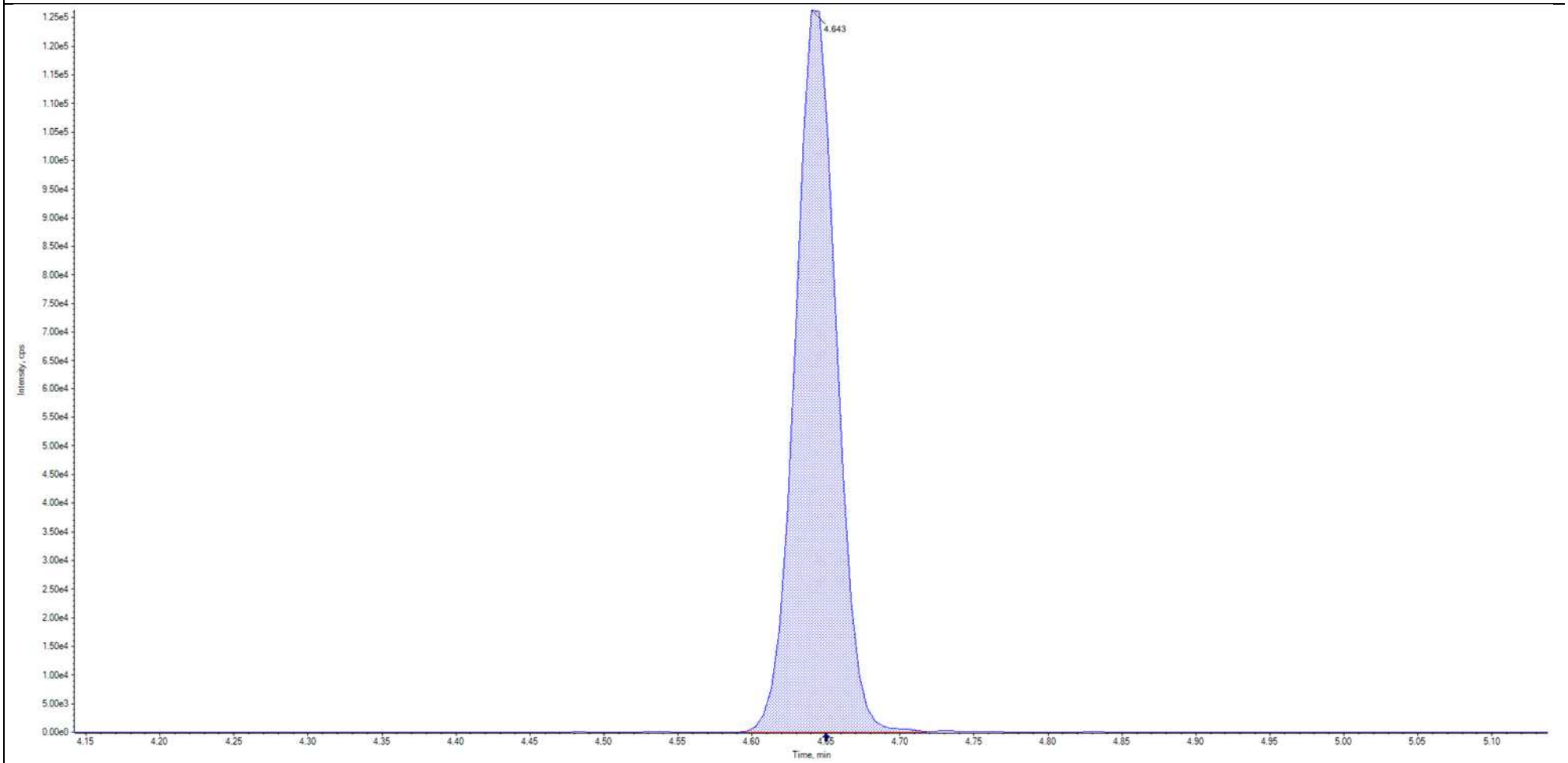
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Alpha Analytical LLC
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13C7-PFUnA
Sample: WG2038443-3R



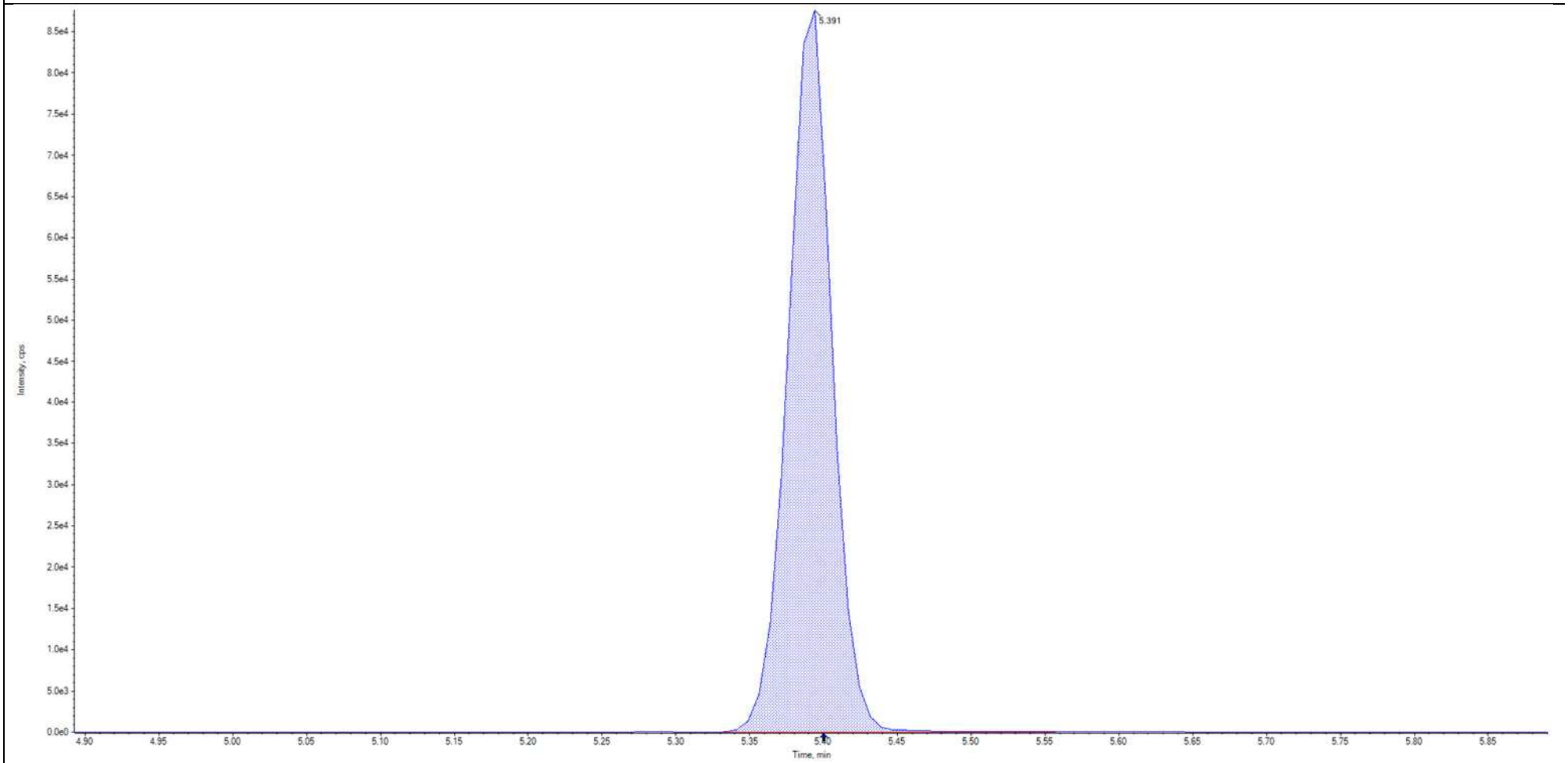
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13C2-PFDoA
Sample: WG2038443-3R

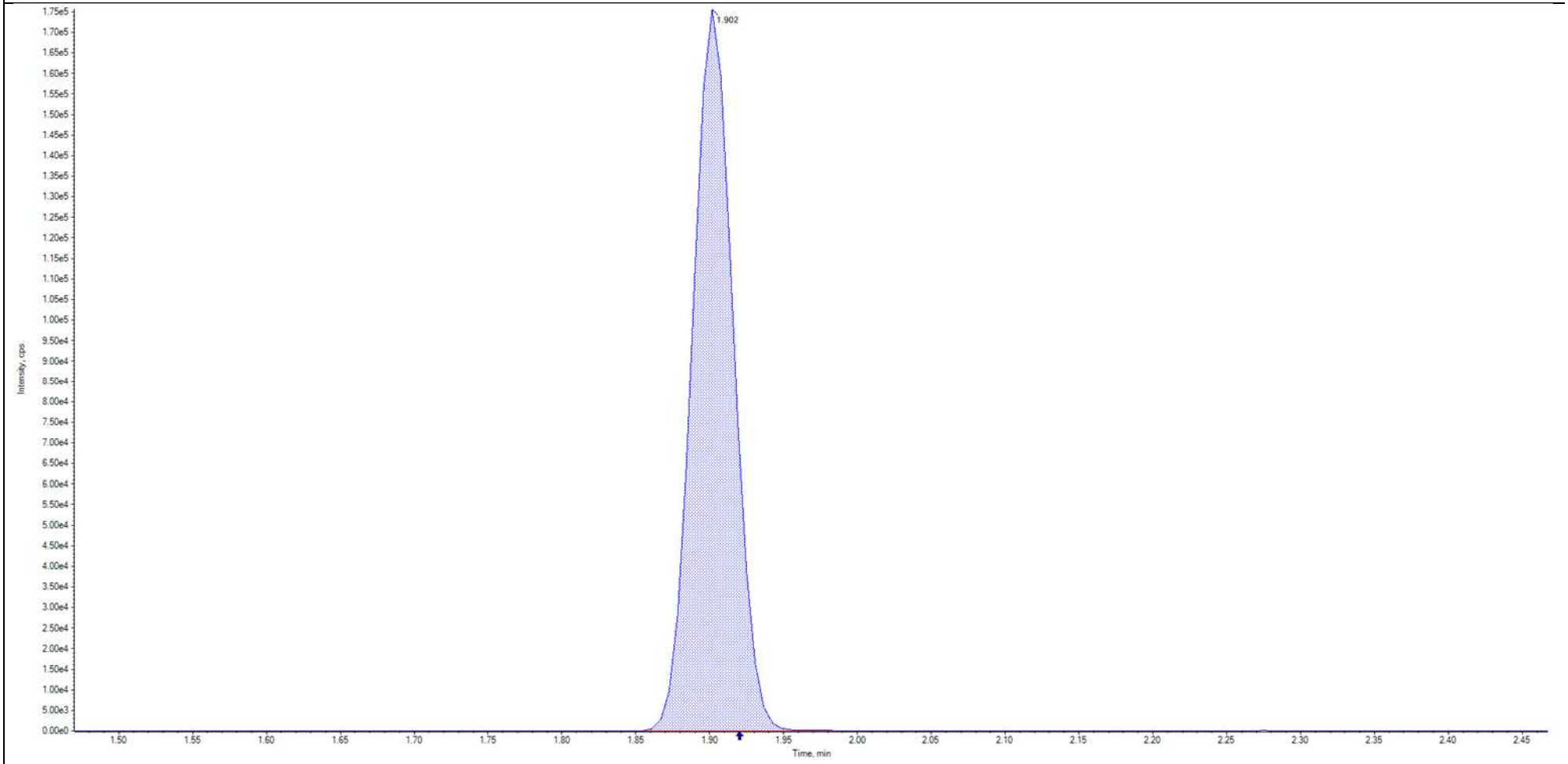


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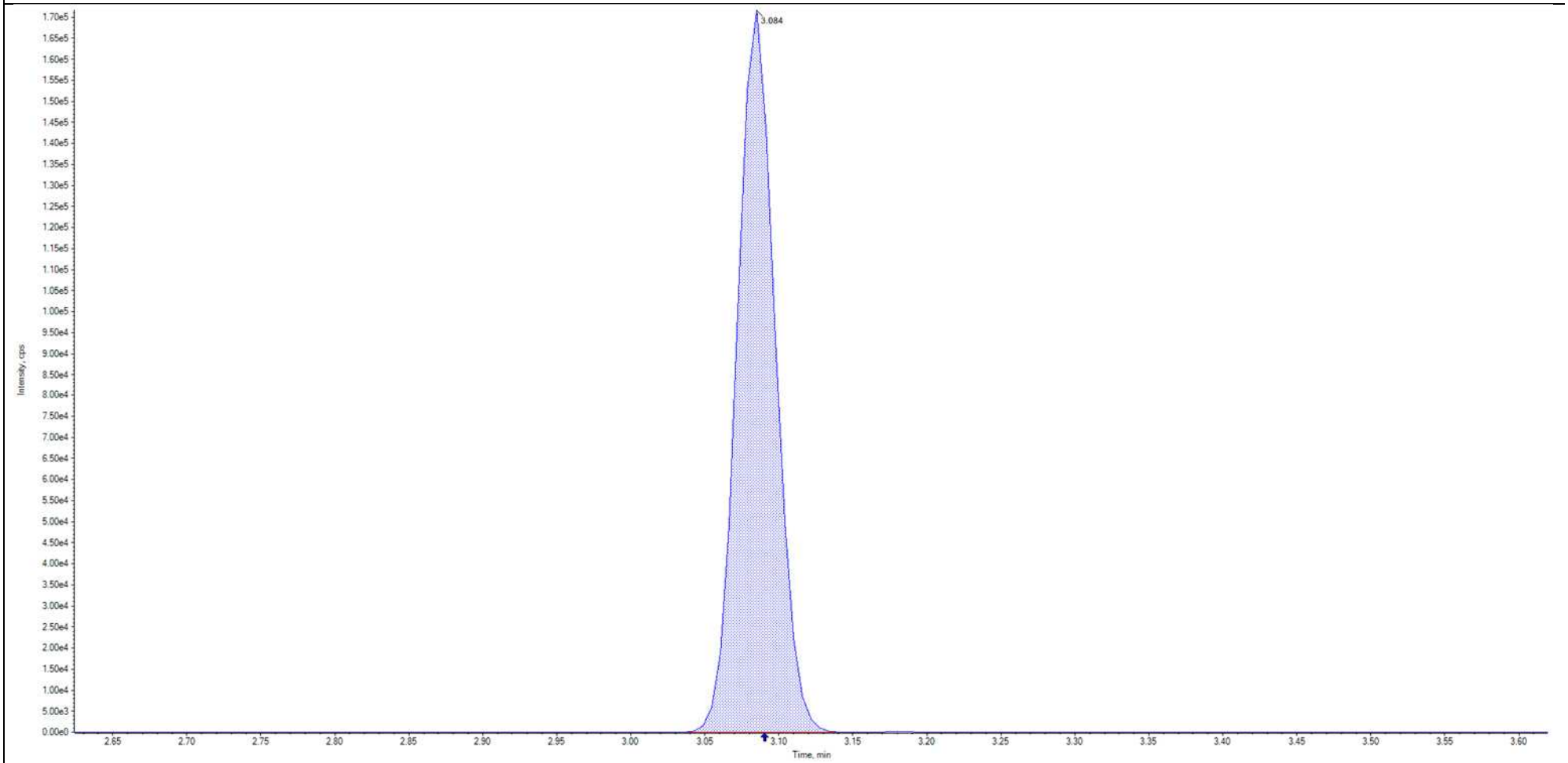
13C2-PFTeDA
Sample: WG2038443-3R



13C3-PFBS
Sample: WG2038443-3R

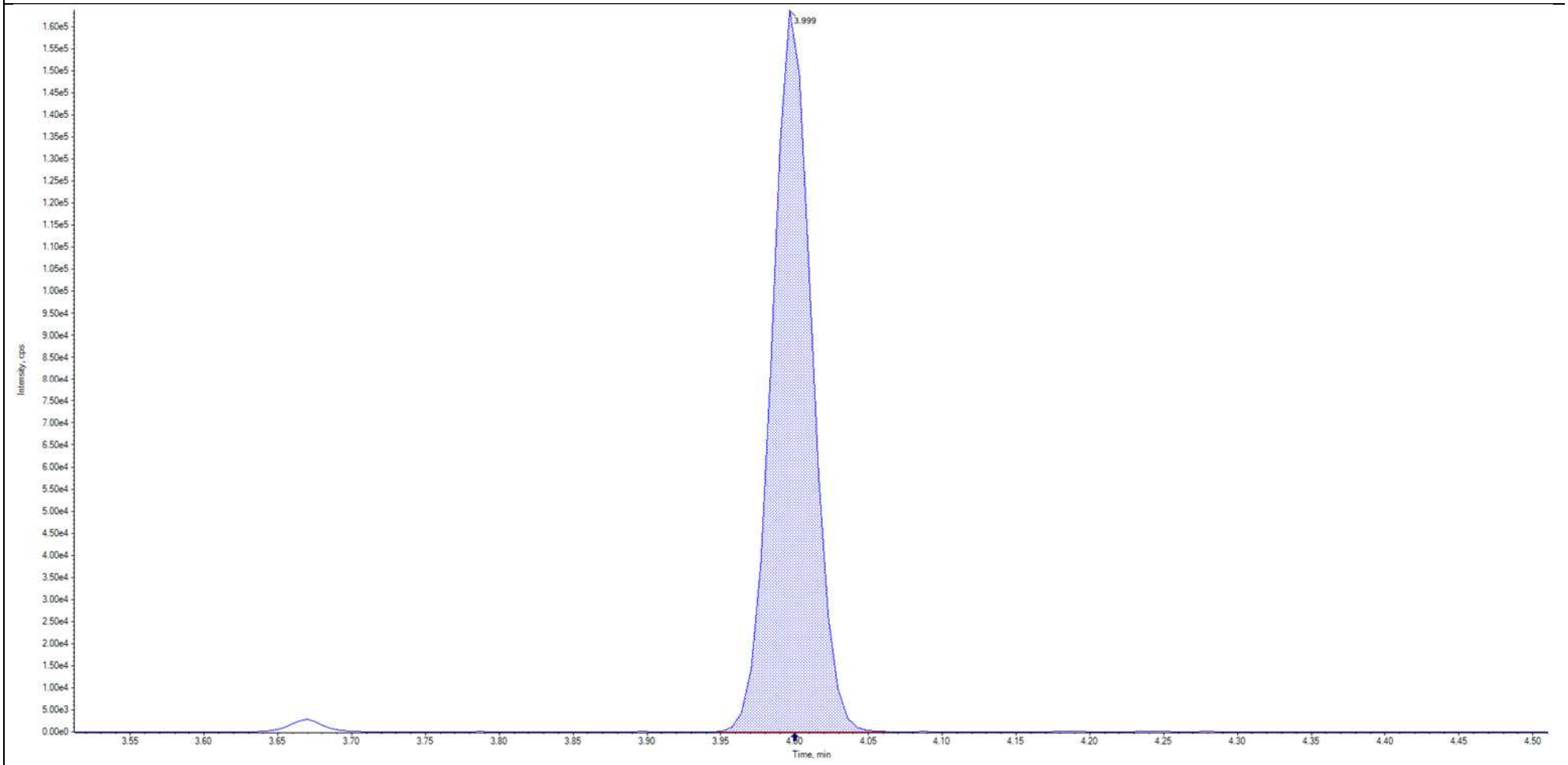


13C3-PFHxS
Sample: WG2038443-3R

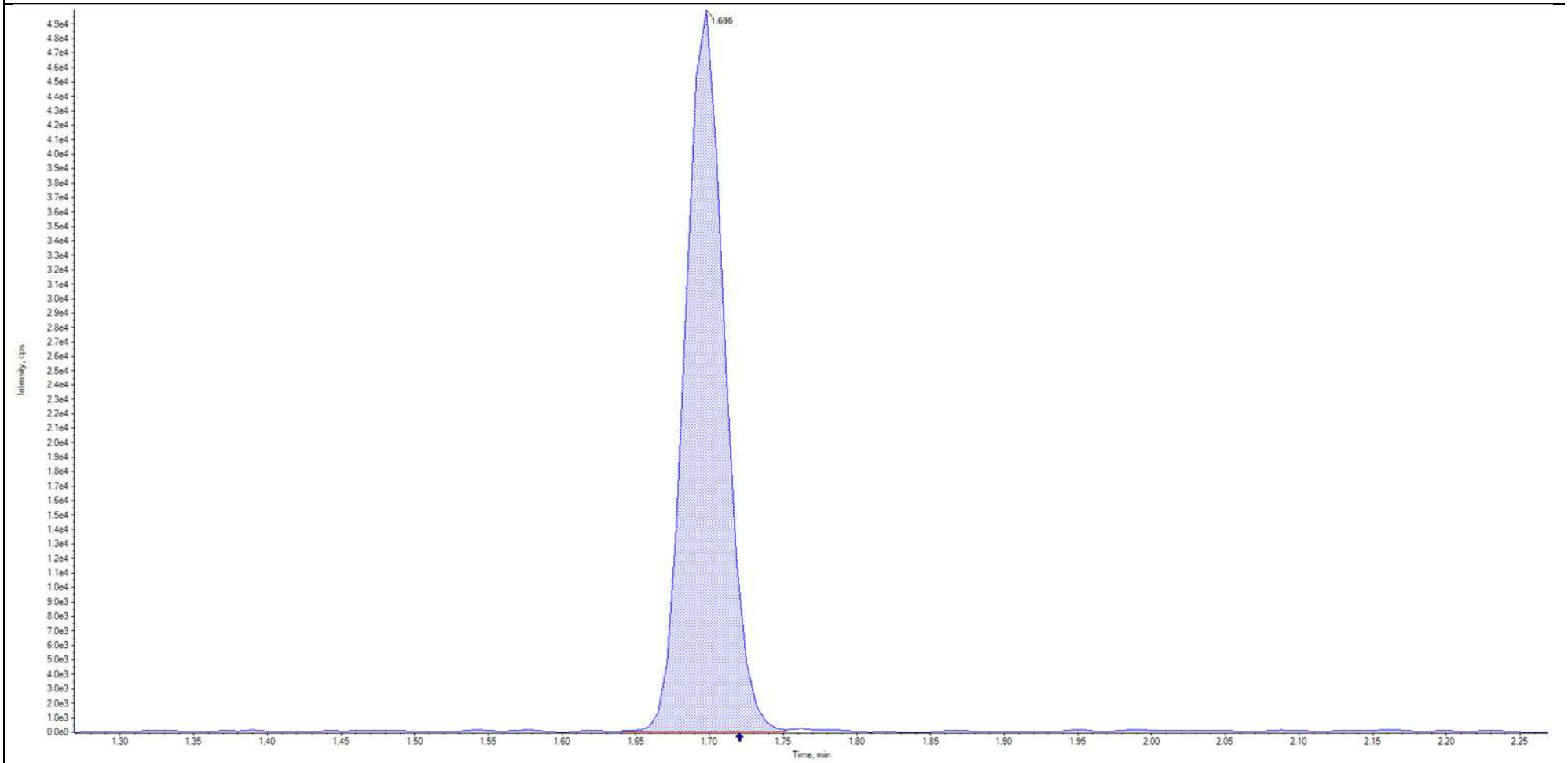


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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13C8-PFOS
Sample: WG2038443-3R

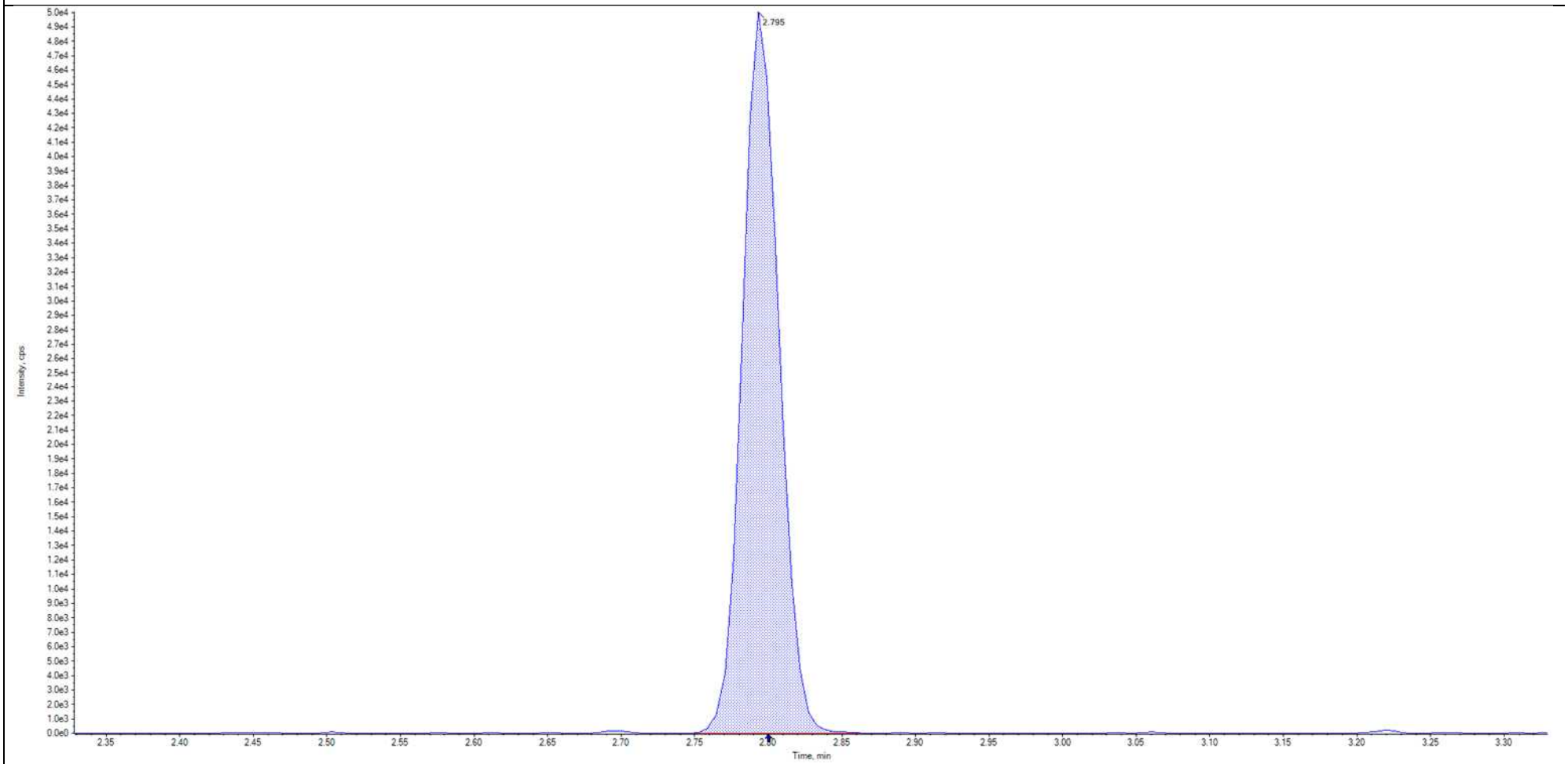


13C2-4:2FTS
Sample: WG2038443-3R



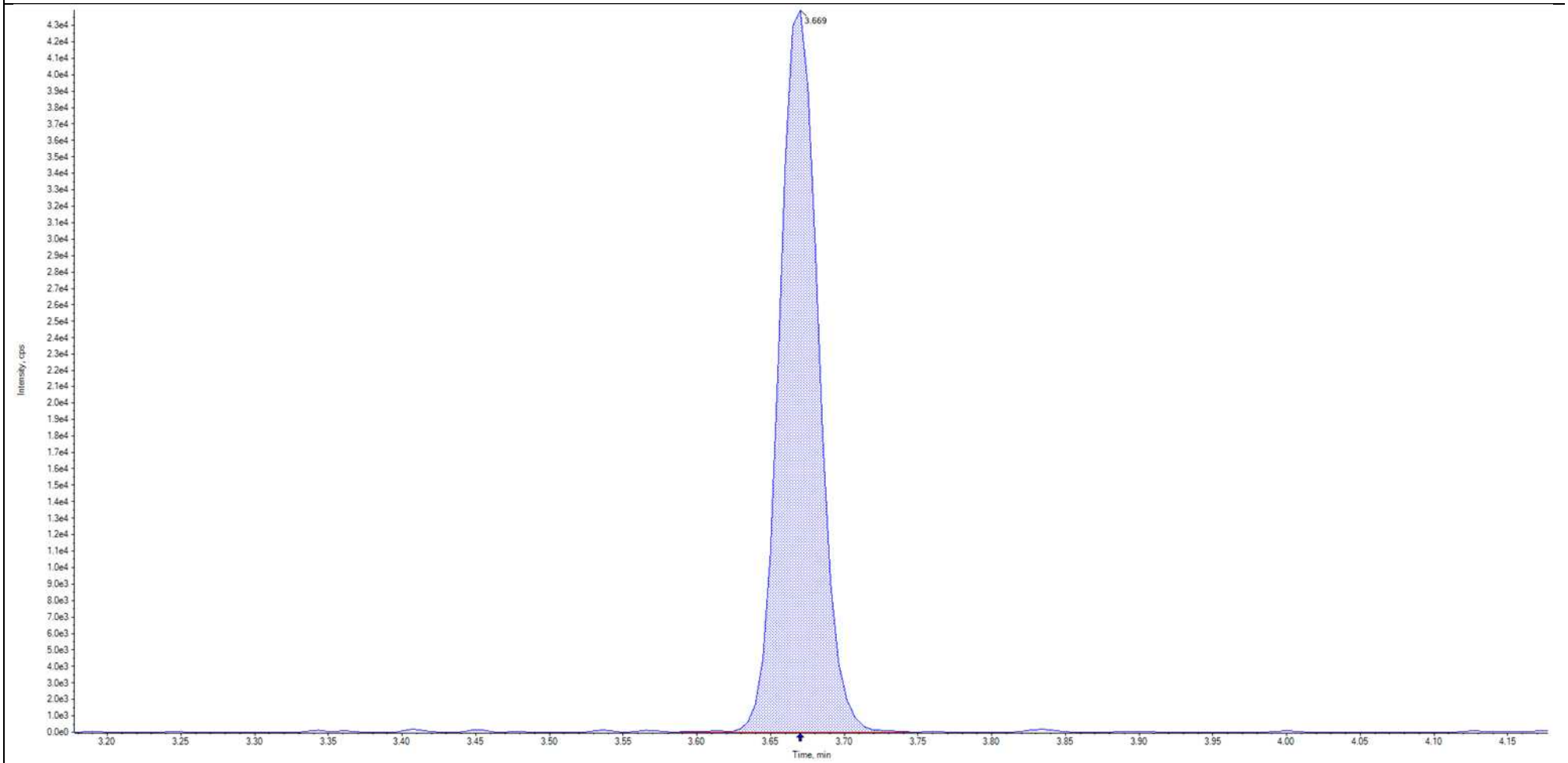
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13C2-6:2FTS
Sample: WG2038443-3R



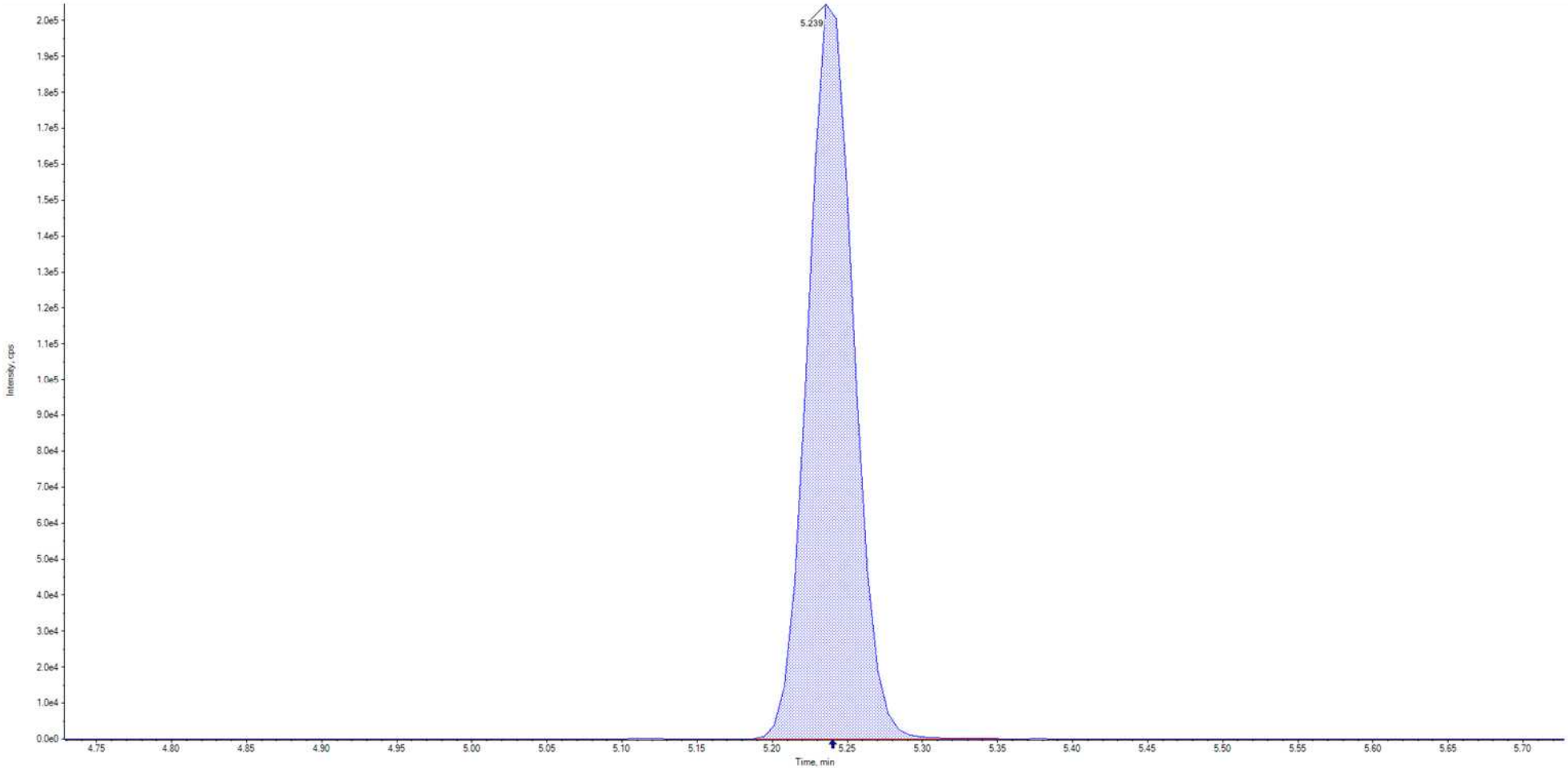
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13C2-8:2FTS
Sample: WG2038443-3R

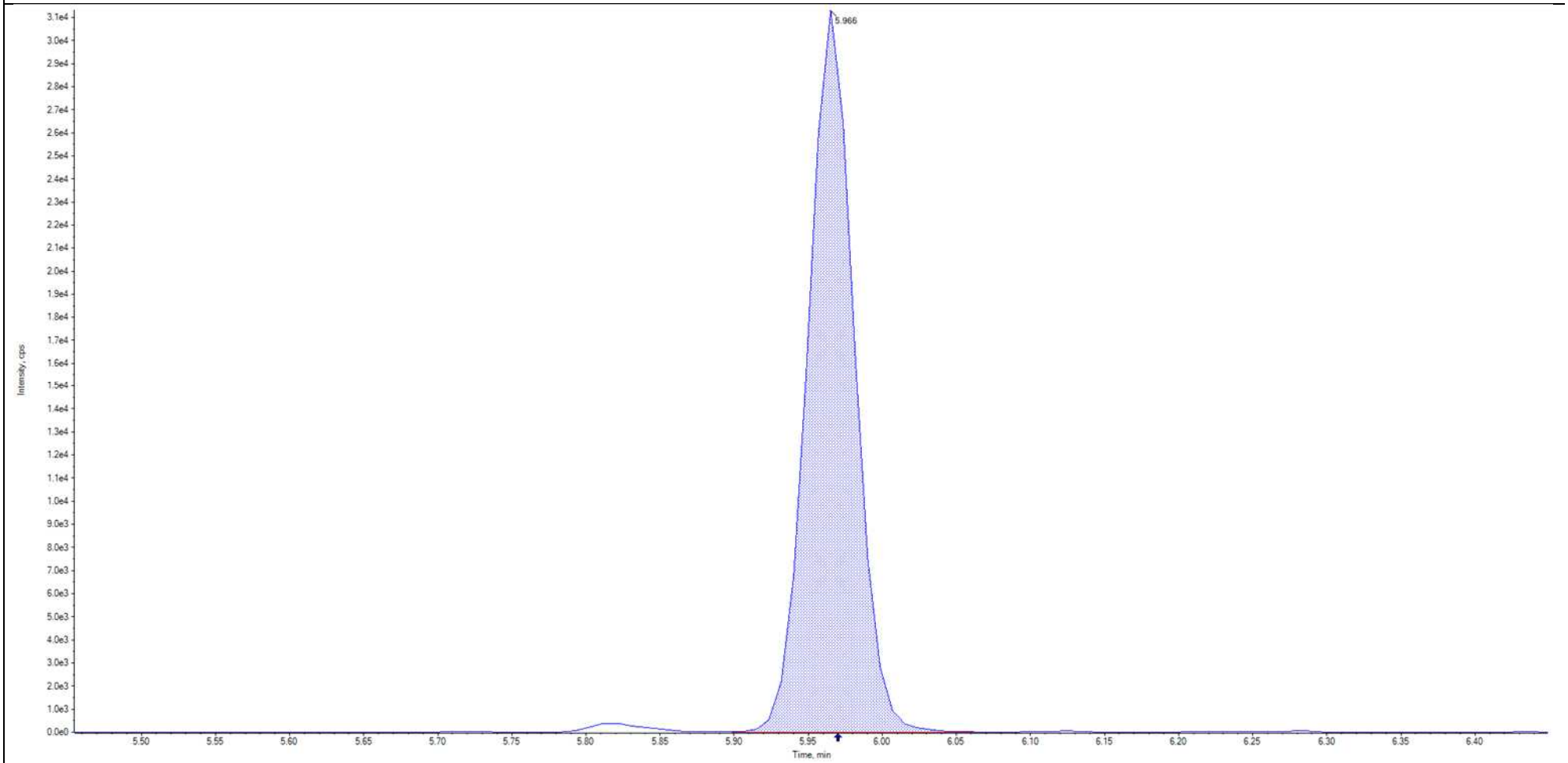


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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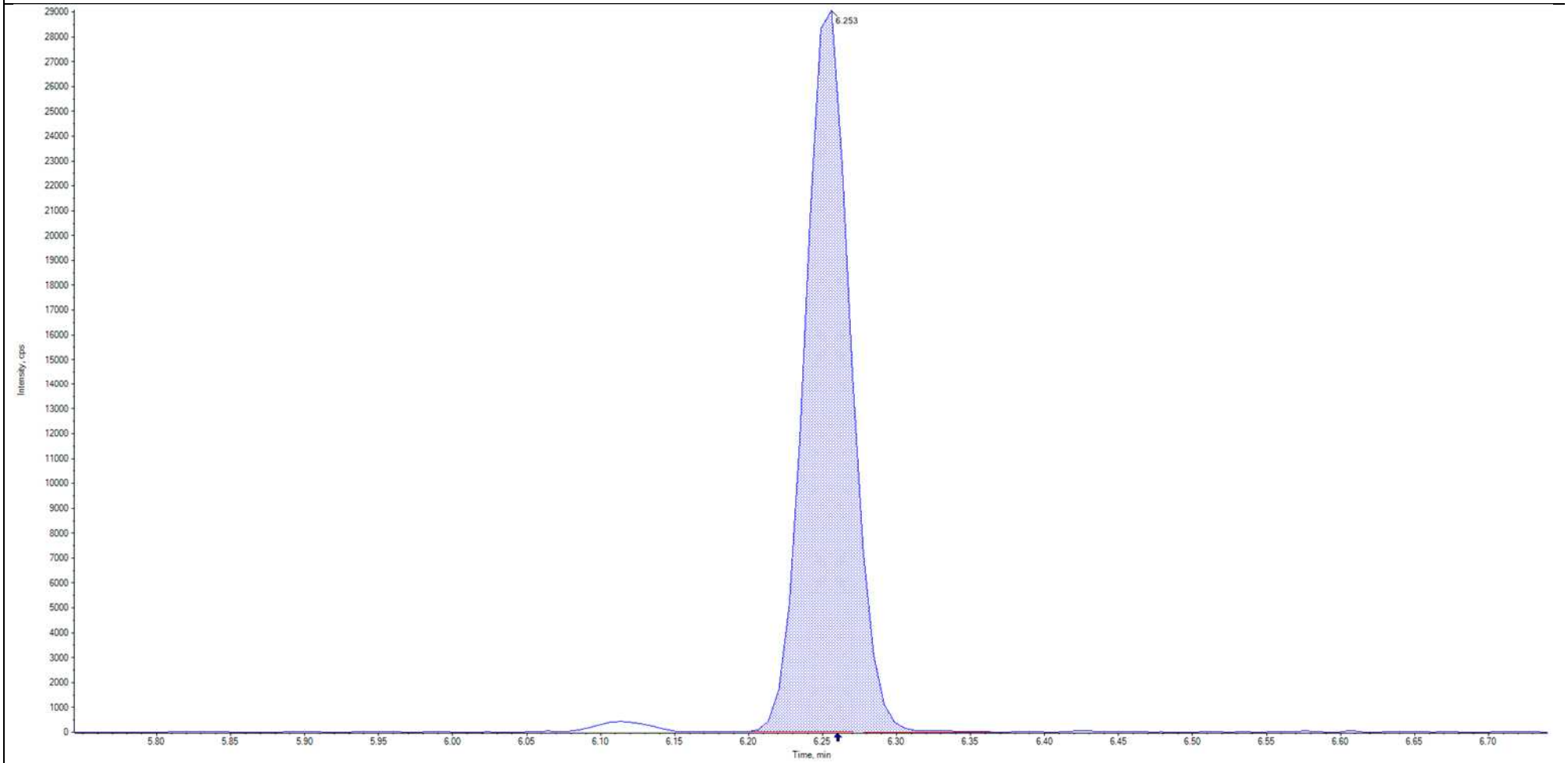
13C8-PFOSA
Sample: WG2038443-3R



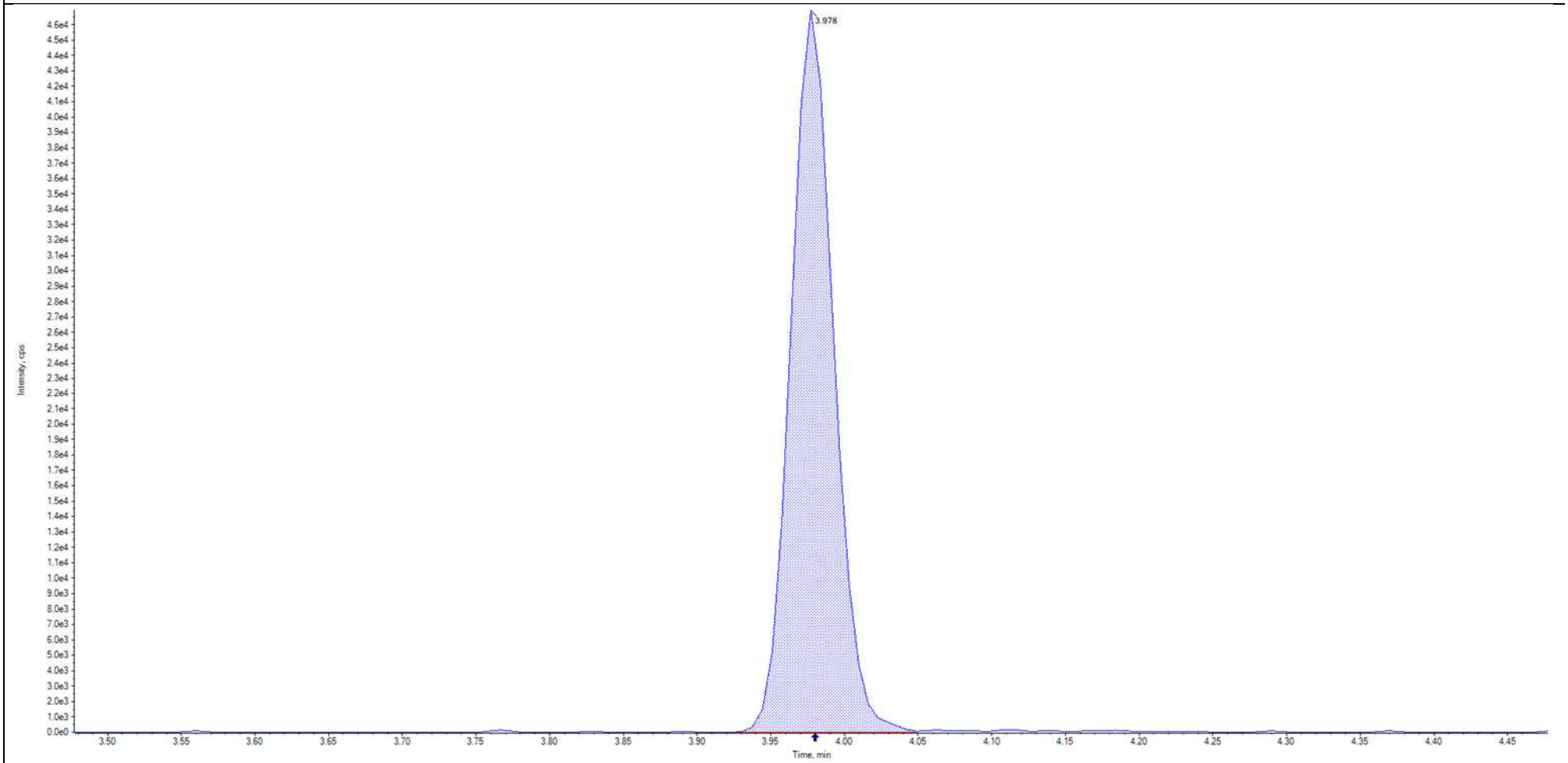
d3-NMeFOSA
Sample: WG2038443-3R



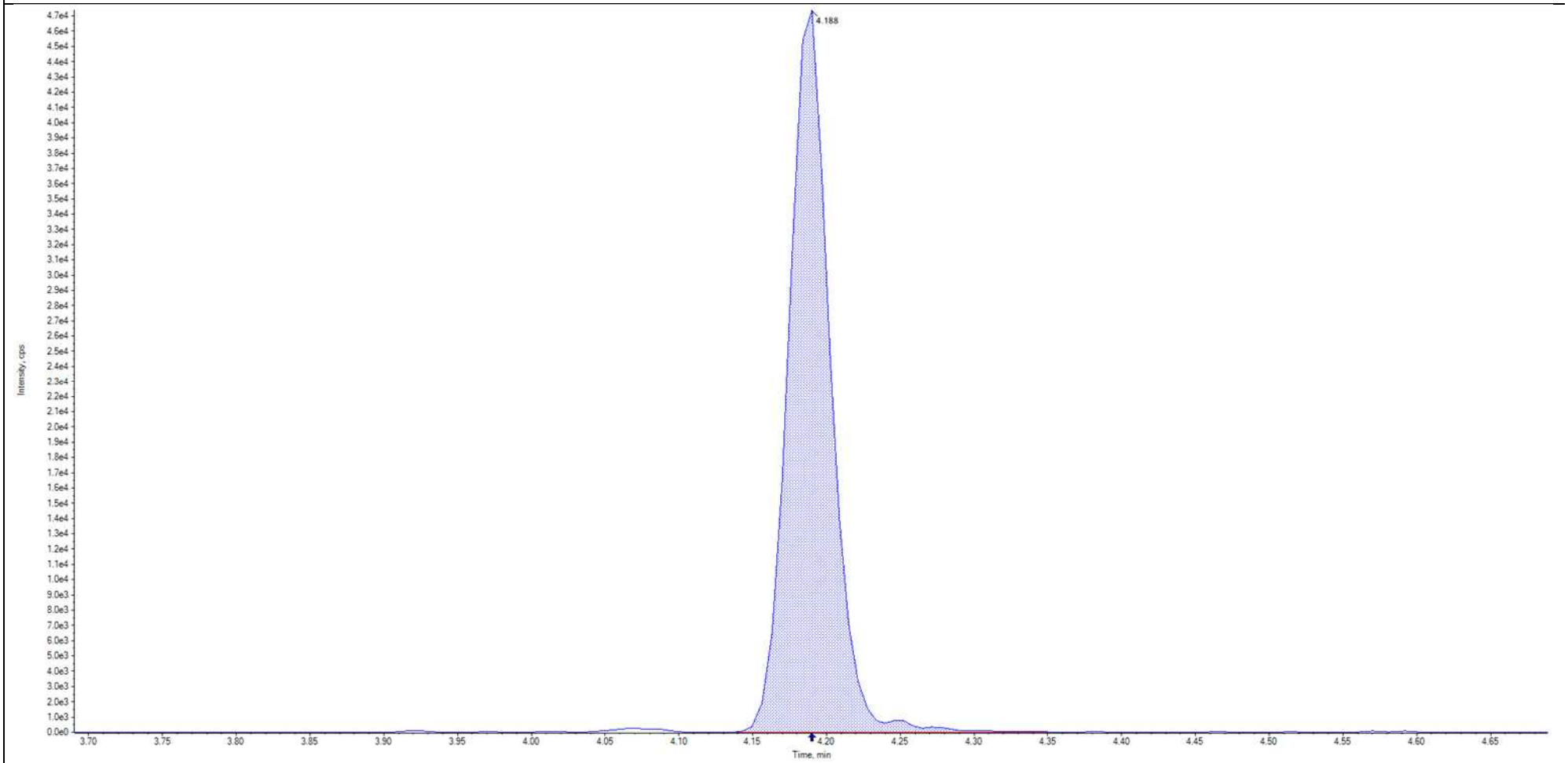
d5-NEtFOSA
Sample: WG2038443-3R



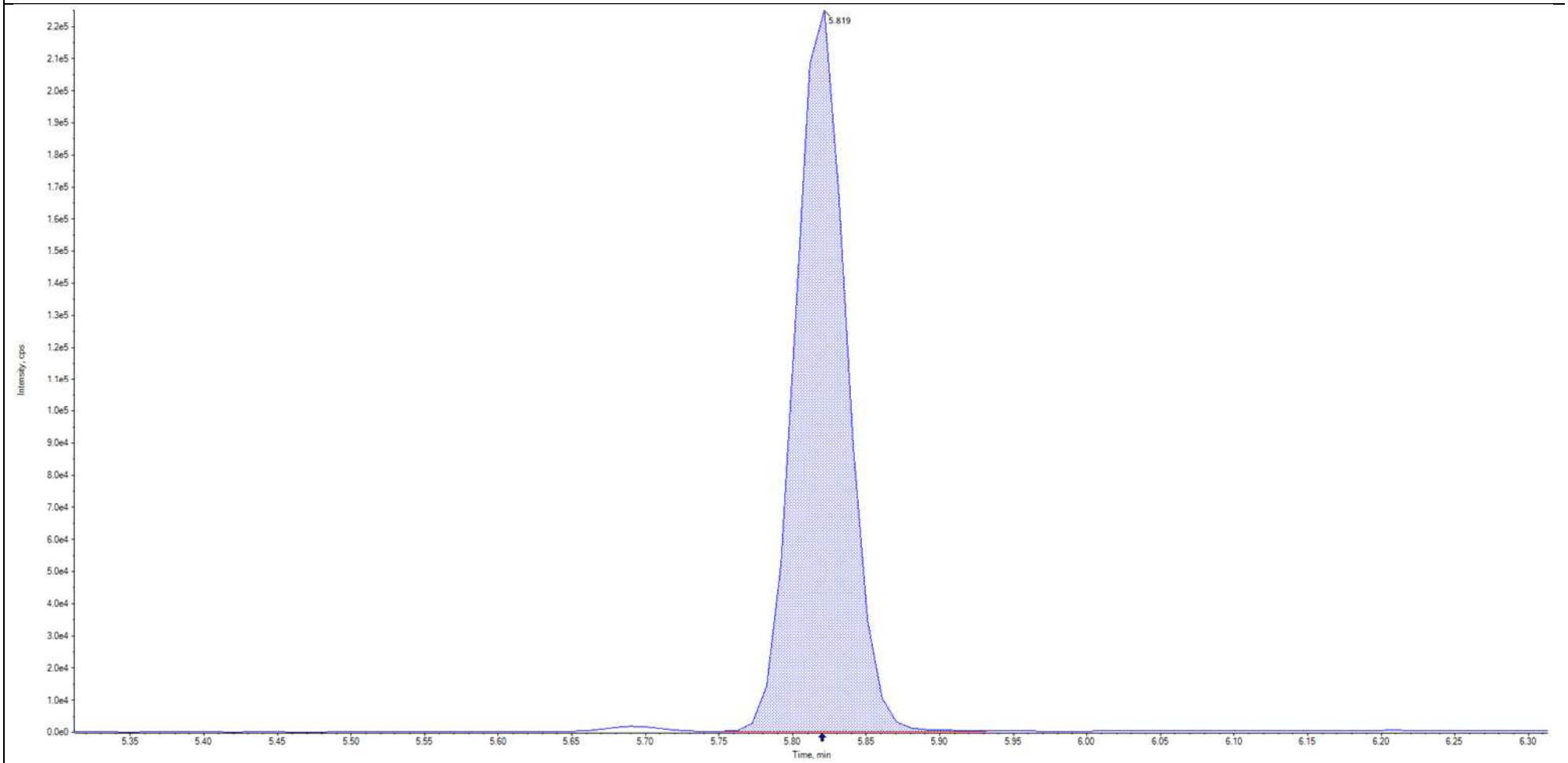
d3-NMeFOSAA
Sample: WG2038443-3R



d5-NEtFOSAA
Sample: WG2038443-3R

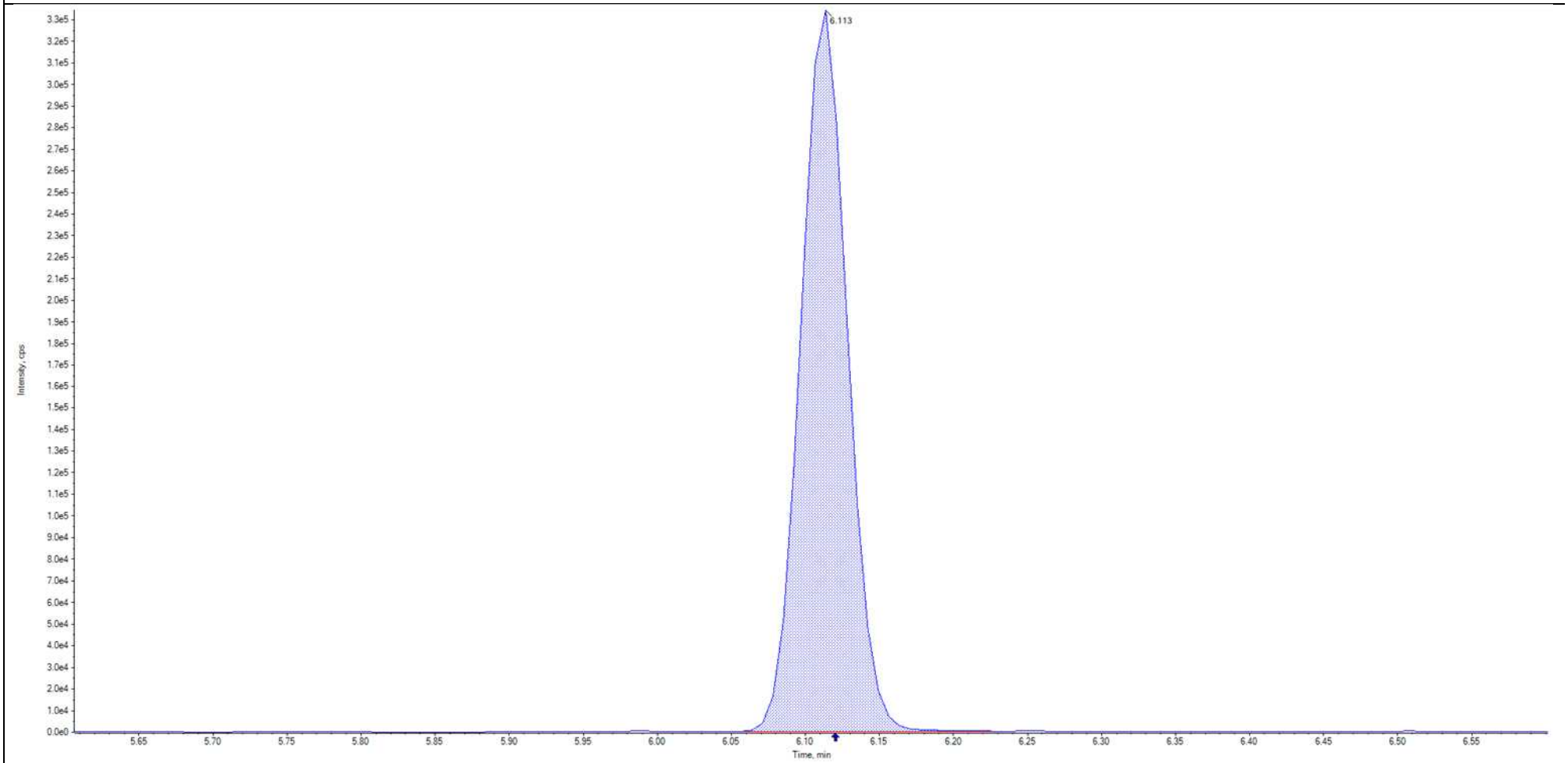


d7-NMeFOSE
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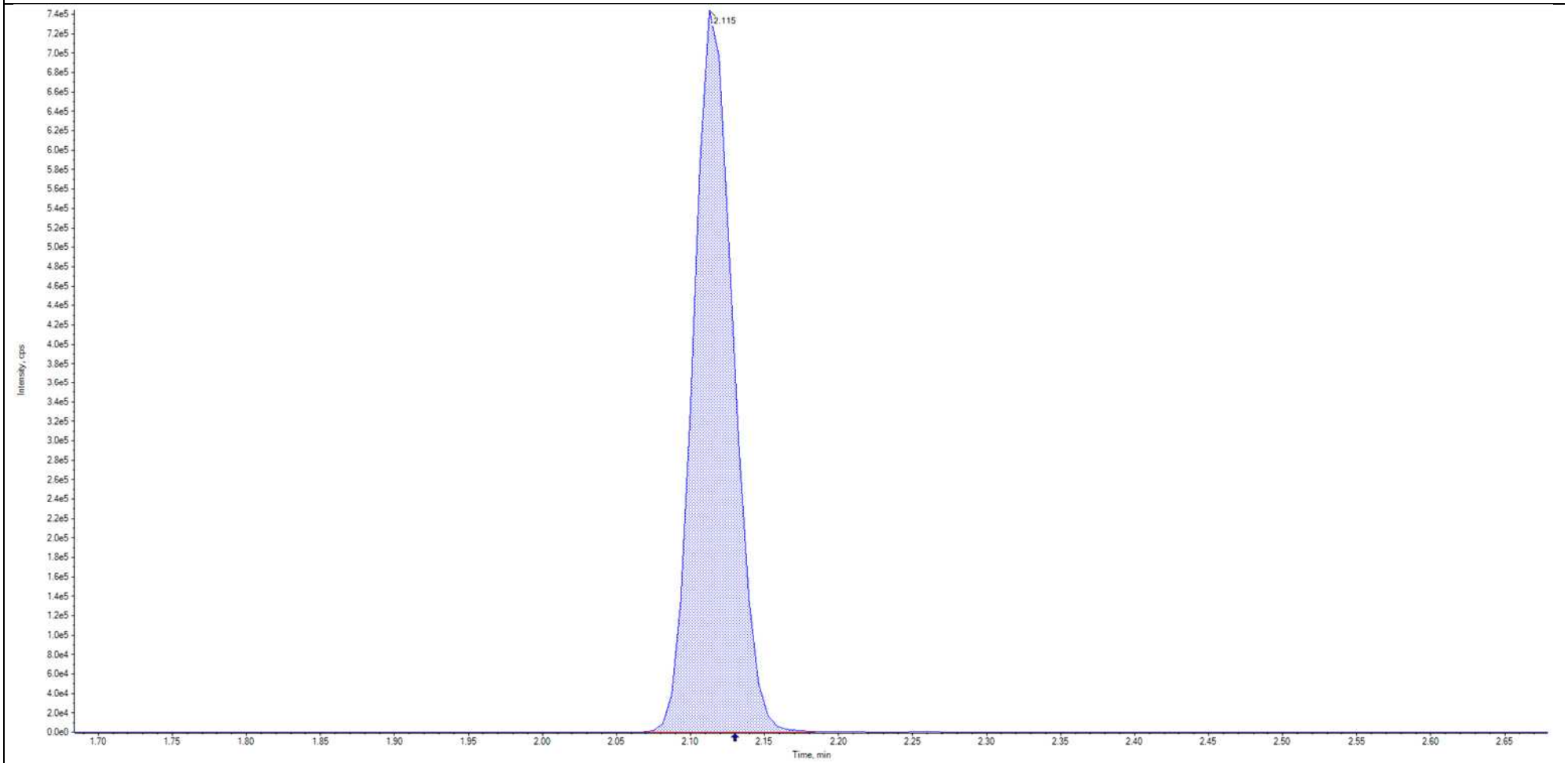


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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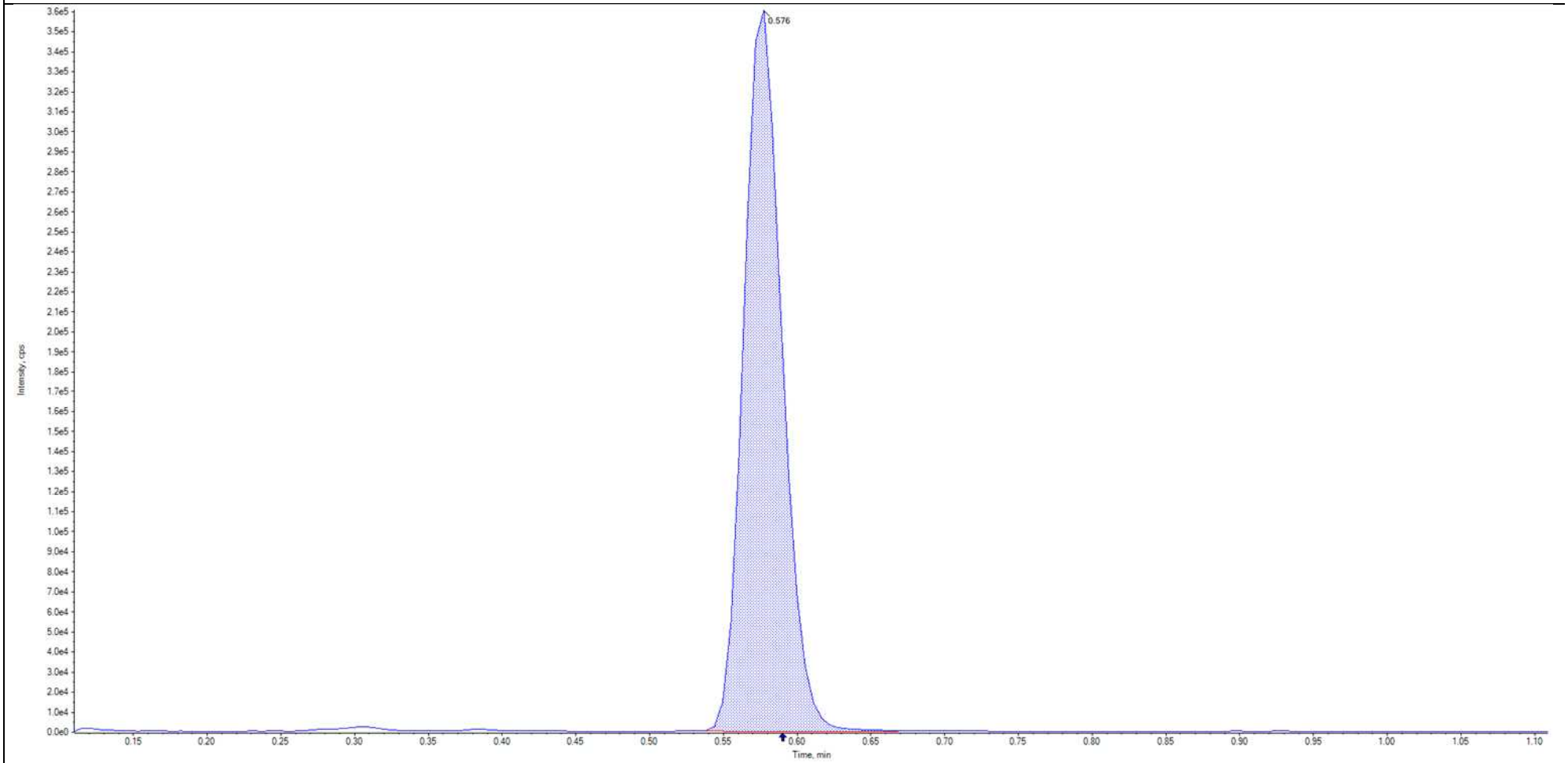
d9-NEtFOSE
Sample: WG2038443-3R



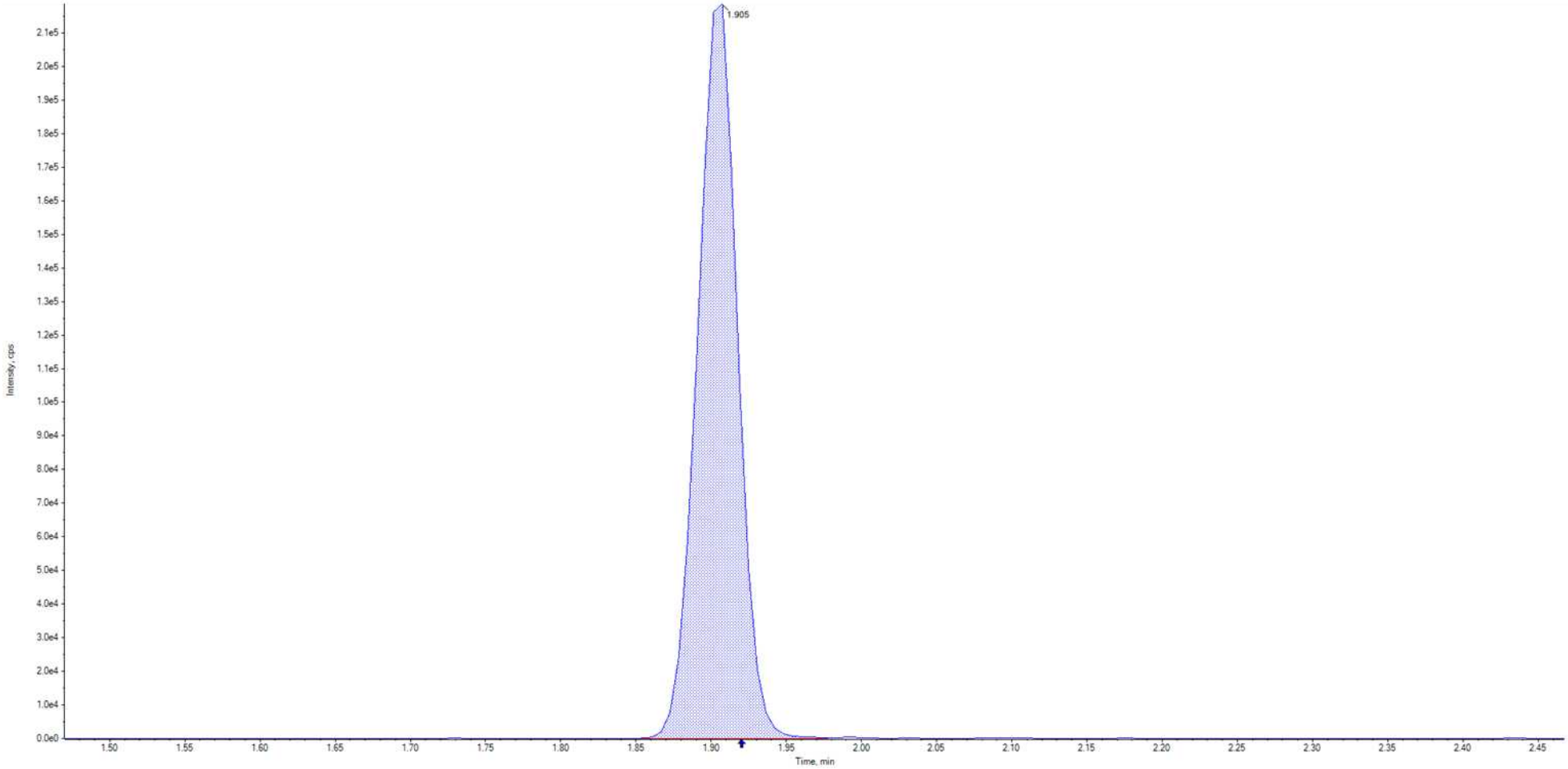
13C3-HFPO-DA
Sample: WG2038443-3R



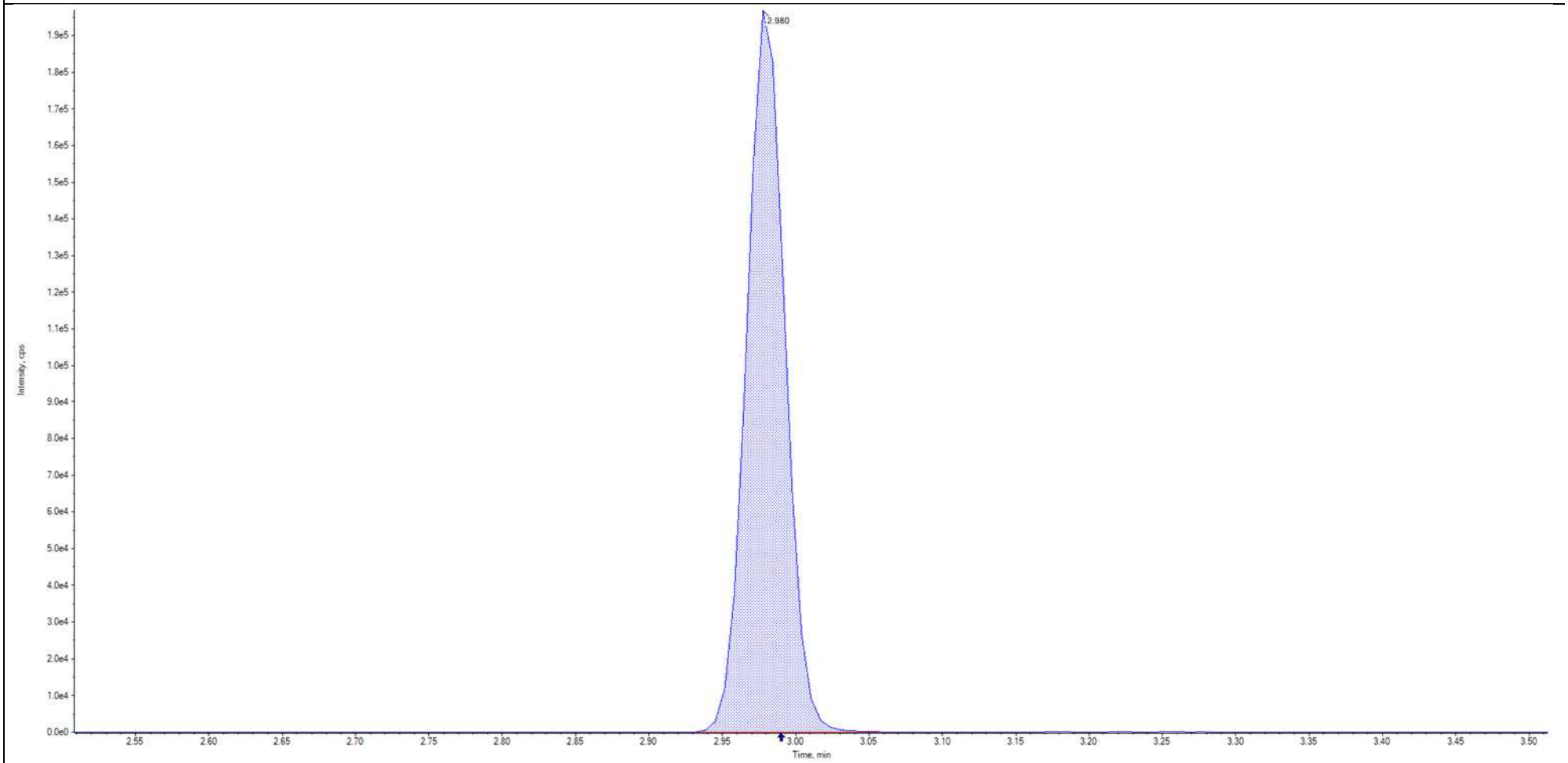
13C3-PFBA
Sample: WG2038443-3R



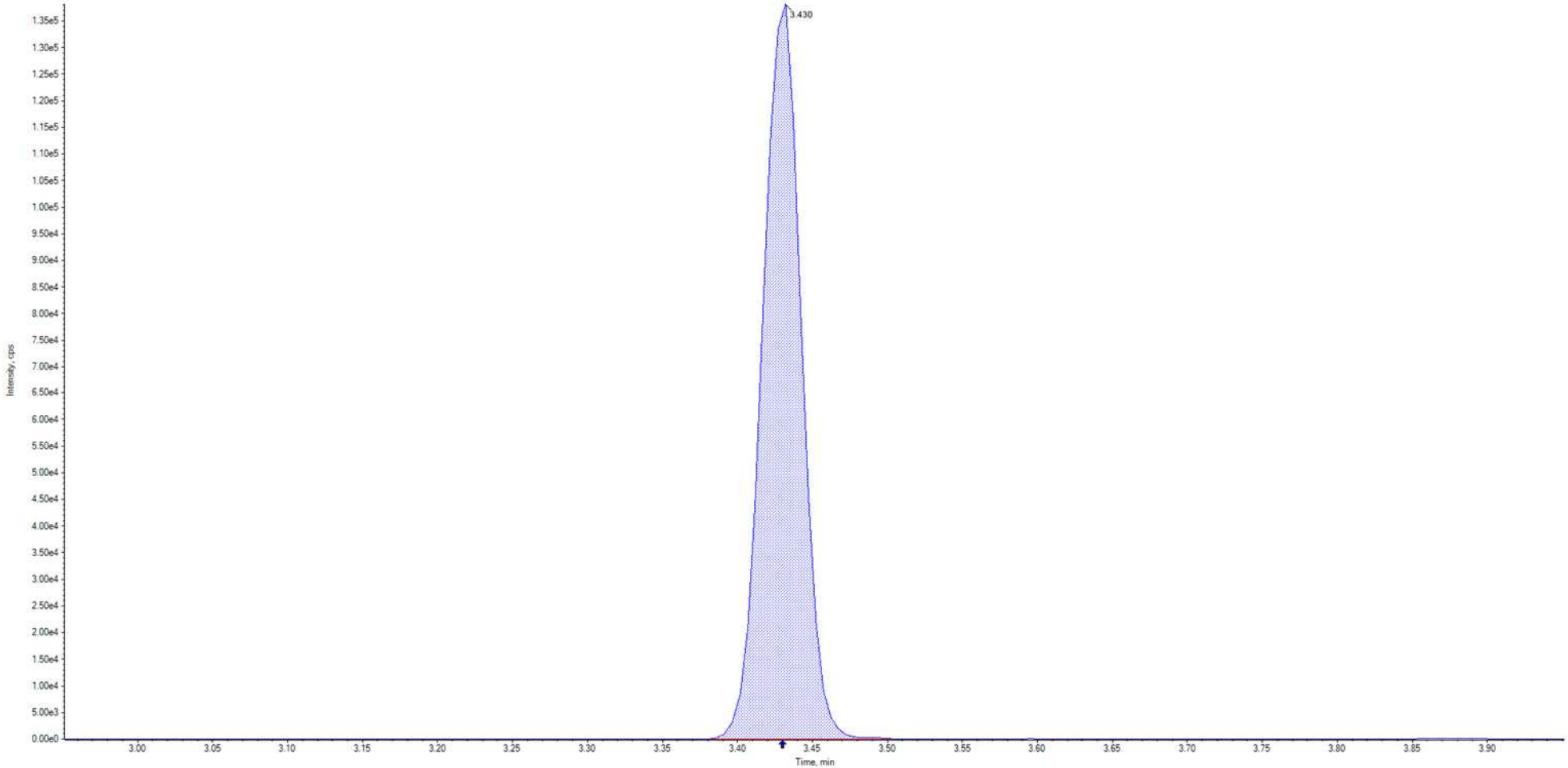
13C2-PFHxA
Sample: WG2038443-3R



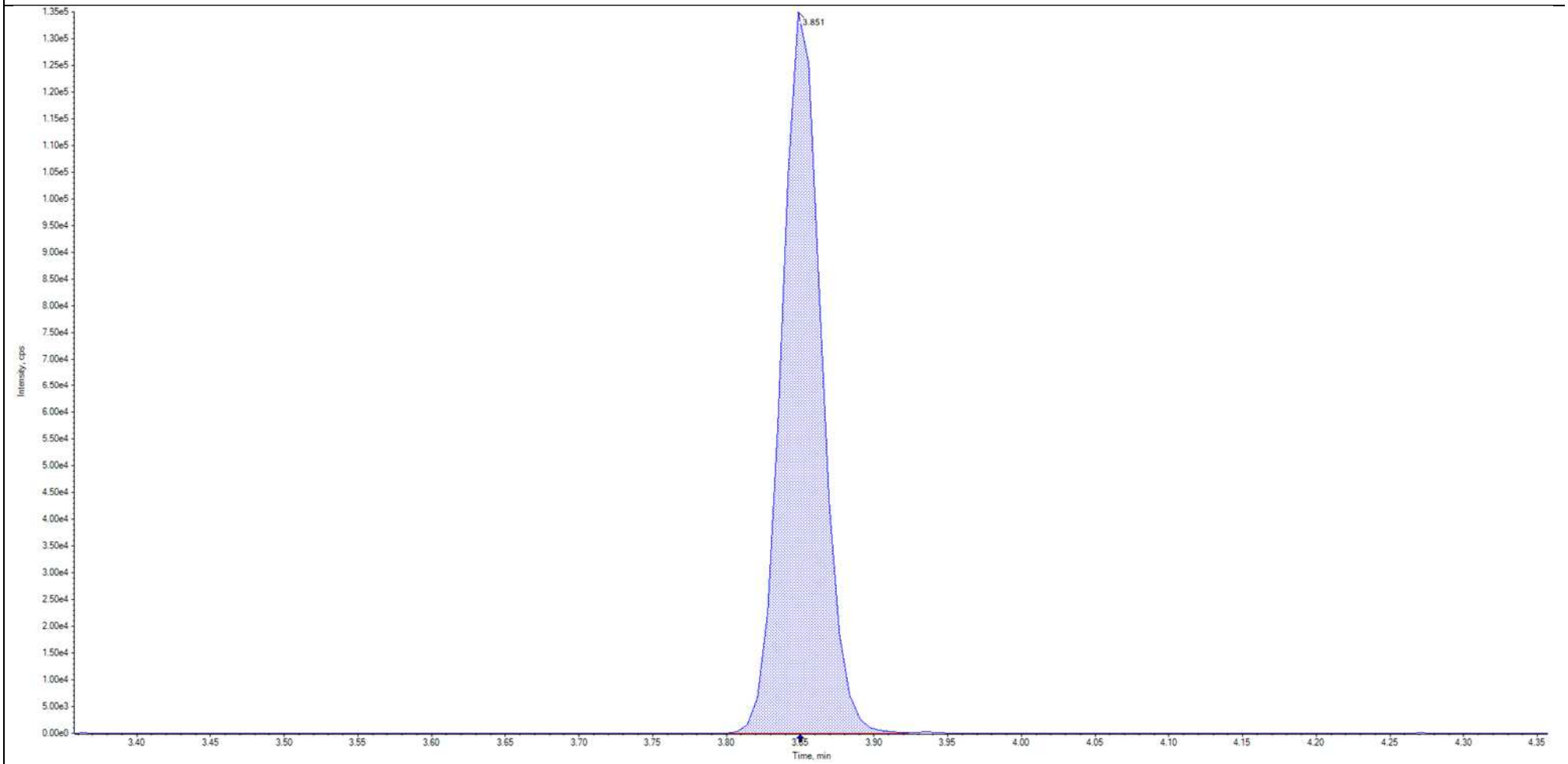
13C4-PFOA
Sample: WG2038443-3R



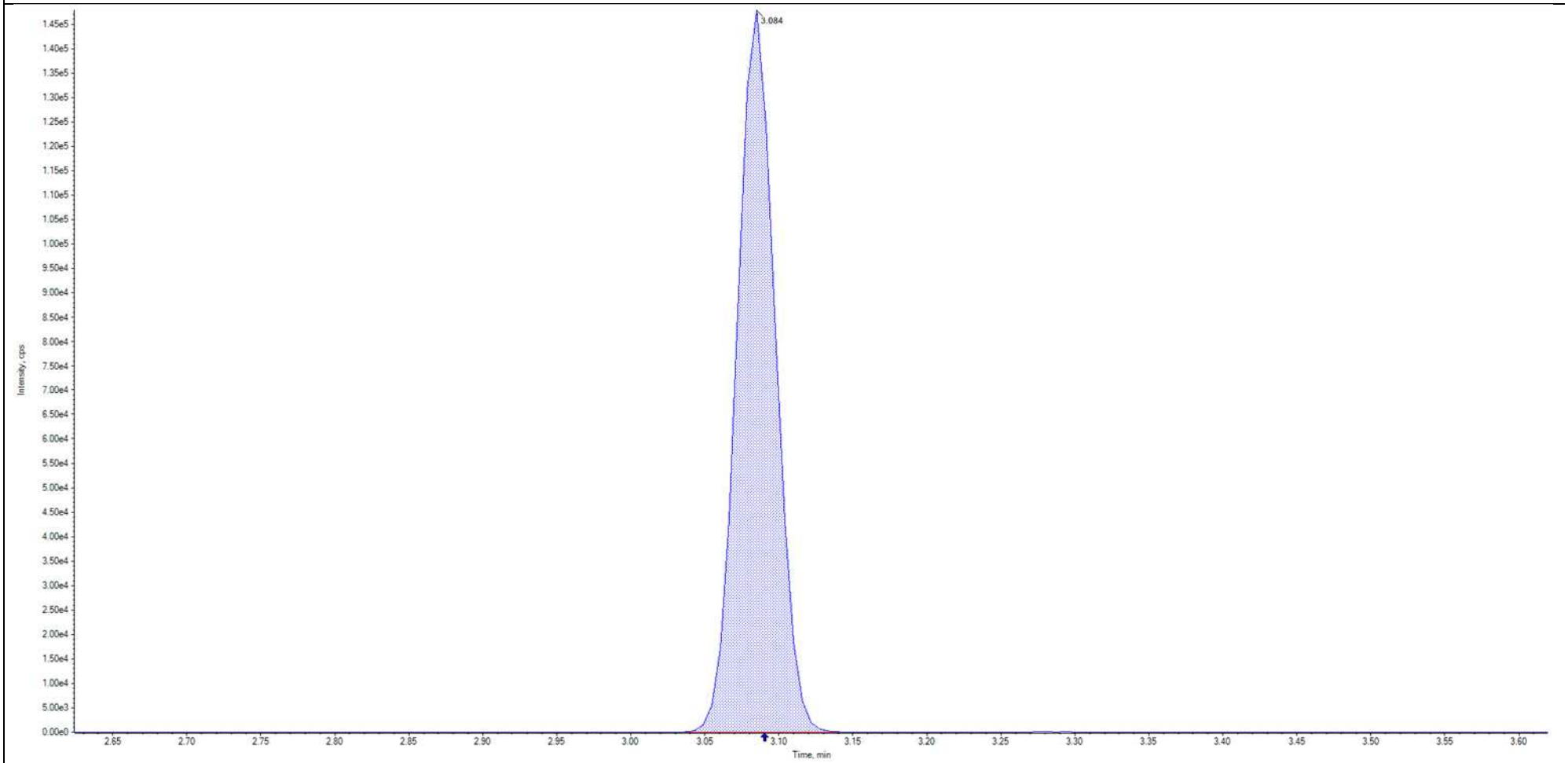
13C5-PFNA
Sample: WG2038443-3R



13C2-PFDA
Sample: WG2038443-3R

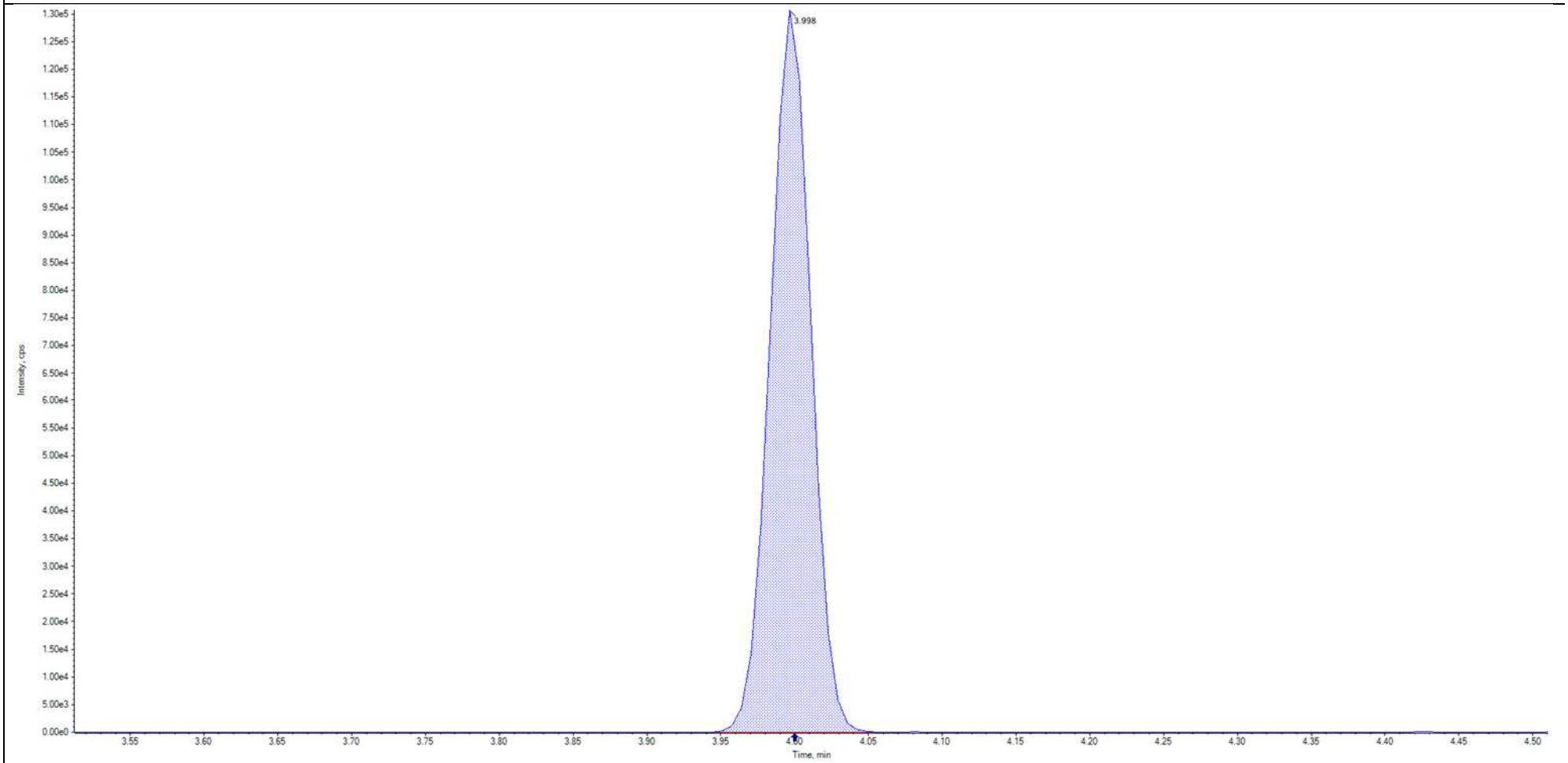


18O2-PFHxS
Sample: WG2038443-3R



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:49:02 PM
Generated: 3/11/2025 12:26:59 PM

13C4-PFOS
Sample: WG2038443-3R



Alpha Analytical LLC
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Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

ID: WG2038443-4
Name: SCI09_250311_55.wiff2
Date & Time: 2025-03-11T14:13:27
Description: WG2038851,WG2038443,ICAL22044
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.59	213.0 / 169.0	1098160		8.683	N/A	N/A	N/A	86.8
2	PFPeA	2706-90-3	1.17	263.0 / 219.0	722557		5.477	0.007	N/A	N/A	109.5
3	PFPeA_2	2706-90-3	1.17	263.0 / 68.9	5159		5.576	0.007	N/A	N/A	111.5
4	PFHxA	307-24-4	1.92	313.0 / 269.0	573922		3.200	0.083	0.081	Pass	128.0
5	PFHxA_2	307-24-4	1.92	313.0 / 119.0	47871		3.139	0.083	0.081	Pass	125.6
6	PFHpA	375-85-9	2.50	363.1 / 319.0	477736		2.525	0.392	0.373	Pass	101.0
7	PFHpA_2	375-85-9	2.50	363.1 / 169.0	187182		2.506	0.392	0.373	Pass	100.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	2.99	413.1 / 369.1	868949	M5	4.635	0.374	0.424	Pass	185.4
9	PFOA_2	335-67-1	2.99	413.1 / 169.0	325052	M5	4.097	0.374	0.424	Pass	163.9
10	PFNA	375-95-1	3.44	462.8 / 418.9	246110	M5	1.853	0.480	0.493	Pass	74.1
11	PFNA_2	375-95-1	3.44	462.8 / 219.0	118088	M5	1.826	0.480	0.493	Pass	73.0
12	PFDA	335-76-2	3.87	513.1 / 469.1	348746		1.888	0.184	0.188	Pass	75.5
13	PFDA_2	335-76-2	3.87	513.1 / 219.0	64115		1.885	0.184	0.188	Pass	75.4
14	PFUnA	2058-94-8	4.27	563.1 / 519.1	329365		1.785	0.153	0.146	Pass	71.4
15	PFUnA_2	2058-94-8	4.27	563.1 / 269.0	50233		1.894	0.153	0.146	Pass	75.8
16	PFDoA	307-55-1	4.66	613.1 / 569.1	355933		1.821	0.143	0.142	Pass	72.9
17	PFDoA_2	307-55-1	4.66	613.1 / 319.0	51000		1.894	0.143	0.142	Pass	75.7
18	PFTrDA	72629-94-8	5.04	663.1 / 619.1	311616		1.815	0.165	0.152	Pass	72.6
19	PFTrDA_2	72629-94-8	5.04	663.1 / 169.0	51481		1.952	0.165	0.152	Pass	78.1
20	PFTeDA	376-06-7	5.40	713.1 / 669.1	290501		1.766	0.161	0.154	Pass	70.7
21	PFTeDA_2	376-06-7	5.40	713.1 / 169.0	46907		1.747	0.161	0.154	Pass	69.9
22	PFBS	375-73-5	1.91	299.1 / 80.1	388853		2.618	0.384	0.374	Pass	117.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.91	299.1 / 99.1	149262		2.882	0.384	0.374	Pass	122.7
24	PFPeS	2706-91-4	2.56	349.1 / 80.1	259019		1.860	0.318	0.314	Pass	79.1
25	PFPeS_2	2706-91-4	2.56	349.1 / 99.1	82427		1.885	0.318	0.314	Pass	80.2
26	PFHxS	355-46-4	3.10	399.1 / 80.1	276710	M5	2.175	0.305	0.306	Pass	95.4
27	PFHxS_2	355-46-4	3.10	399.1 / 99.1	84415	M5	2.292	0.305	0.306	Pass	100.5
28	PFHpS	375-92-8	3.57	449.1 / 80.1	240475		1.987	0.311	0.316	Pass	83.5
29	PFHpS_2	375-92-8	3.57	449.1 / 99.1	74783		2.019	0.311	0.316	Pass	84.8
30	PFOS	1763-23-1	4.01	499.1 / 80.1	317643	M5	2.157	0.240	0.244	Pass	93.0
31	PFOS_2	1763-23-1	4.01	499.1 / 99.1	76331	M5	2.063	0.240	0.244	Pass	88.9
32	PFNS	68259-12-1	4.42	549.1 / 80.1	182059		1.816	0.267	0.294	Pass	75.7
33	PFNS_2	68259-12-1	4.42	549.1 / 99.1	48569		1.695	0.267	0.294	Pass	70.6
34	PFDS	335-77-3	4.82	599.1 / 80.1	170990		1.736	0.284	0.290	Pass	72.0
35	PFDS_2	335-77-3	4.82	599.1 / 99.1	48573		1.746	0.284	0.290	Pass	72.5
36	PFDoS	79780-39-5	5.56	699.2 / 80.1	156944		1.749	0.253	0.256	Pass	72.3
37	PFDoS_2	79780-39-5	5.56	699.2 / 99.1	39774		1.720	0.253	0.256	Pass	71.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.71	327.1 / 307.1	272753		8.173	0.613	0.650	Pass	87.2
39	4:2FTS_2	757124-72-4	1.71	327.1 / 81.1	167294		7.767	0.613	0.650	Pass	82.9
40	6:2FTS	27619-97-2	2.81	427.2 / 407.2	220244		7.345	0.681	0.620	Pass	77.2
41	6:2FTS_2	27619-97-2	2.80	427.2 / 81.1	149900		7.799	0.681	0.620	Pass	82.0
42	8:2FTS	39108-34-4	3.68	527.2 / 507.2	167162		7.968	0.709	0.676	Pass	83.0
43	8:2FTS_2	39108-34-4	3.68	527.2 / 81.1	118497		8.205	0.709	0.676	Pass	85.5
44	PFOSA	754-91-6	5.25	498.1 / 78.1	288891	M5	1.873	0.027	0.026	Pass	74.9
45	PFOSA_2	754-91-6	5.25	498.1 / 478.0	7781	M5	1.952	0.027	0.026	Pass	78.1
46	NMeFOSA	31506-32-8	5.98	512.2 / 219.0	59852	M5	1.602	1.393	1.377	Pass	64.1
47	NMeFOSA_2	31506-32-8	5.93	512.2 / 169.0	83362		1.606	1.393	1.377	Pass	64.2
48	NEtFOSA	4151-50-2	6.27	526.2 / 219.0	58688	M5	1.557	1.255	1.292	Pass	62.3
49	NEtFOSA_2	4151-50-2	6.23	526.2 / 169.0	73681		1.566	1.255	1.292	Pass	62.7
50	NMeFOSAA	2355-31-9	3.99	570.2 / 419.1	38896	M5	1.857	0.684	0.697	Pass	74.3
51	NMeFOSAA_2	2355-31-9	3.99	570.2 / 483.0	26604		1.768	0.684	0.697	Pass	70.7
52	NEtFOSAA	2991-50-6	4.21	584.2 / 419.1	41049	M5	1.755	0.567	0.557	Pass	70.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.21	584.2 / 526.2	23256	M5	1.803	0.567	0.557	Pass	72.1
54	NMeFOSE	24448-09-7	5.85	616.1 / 58.9	950650	M5	16.931	N/A	N/A	N/A	67.7
55	NEtFOSE	1691-99-2	6.14	630.0 / 58.9	1294381	M5	16.501	N/A	N/A	N/A	66.0
56	HFPO-DA	13252-13-6	2.13	285.0 / 169.0	1117270		8.126	0.552	0.501	Pass	81.3
57	HFPO-DA_2	13252-13-6	2.13	285.0 / 184.9	616780		8.508	0.552	0.501	Pass	85.1
58	ADONA	919005-14-4	2.68	376.9 / 251.0	2210298		7.927	0.591	0.691	Pass	83.9
59	ADONA_2	919005-14-4	2.68	376.9 / 84.8	1305755		7.068	0.591	0.691	Pass	74.8
60	9Cl-PF3ONS	756426-58-1	4.30	530.8 / 351.1	1967115		7.840	0.316	0.332	Pass	84.0
61	9Cl-PF3ONS_2	756426-58-1	4.30	532.8 / 353.0	621486		7.452	0.316	0.332	Pass	79.9
62	11Cl-PF3OUdS	763051-92-9	5.08	630.9 / 451.0	1460082		6.881	0.312	0.322	Pass	73.0
63	11Cl-PF3OUdS_2	763051-92-9	5.08	632.9 / 452.9	454856		6.678	0.312	0.322	Pass	70.8
64	3:3FTCA	356-02-5	1.64	241.1 / 177.1	108893		10.690	0.939	1.010	Pass	85.5
65	3:3FTCA_2	356-02-5	1.64	241.1 / 117.0	102275		9.247	0.939	1.010	Pass	74.0
66	5:3FTCA	914637-49-3	3.04	341.1 / 237.1	2109253		47.034	1.022	1.017	Pass	75.3
67	5:3FTCA_2	914637-49-3	3.04	341.1 / 217.0	2155378		47.701	1.022	1.017	Pass	76.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.07	441.1 / 316.9	1579076		43.799	1.415	1.343	Pass	70.1
69	7:3FTCA_2	812-70-4	4.07	441.1 / 337.1	2233688		46.869	1.415	1.343	Pass	75.0
70	PFEESA	113507-82-7	2.22	315.1 / 135.0	1505082		3.229	0.080	0.081	Pass	72.4
71	PFEESA_2	113507-82-7	2.22	315.1 / 82.9	120417		3.141	0.080	0.081	Pass	70.4
72	PFMPA	377-73-1	0.75	229.0 / 85.0	539783		4.080	N/A	N/A	N/A	81.6
73	PFMBA	863090-89-5	1.44	279.0 / 85.0	614318		4.069	N/A	N/A	N/A	81.4
74	NFDHA	151772-58-6	1.84	295.0 / 201.0	452904		3.713	0.773	0.681	Pass	74.3
75	NFDHA_2	151772-58-6	1.84	295.0 / 84.9	350180		4.056	0.773	0.681	Pass	81.1
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	N/A	333.2 / 312.1	N/A		N/A	N/A	N/A	N/A	N/A
79	13C2-PFOA	Surr	N/A	415.0 / 370.0	N/A		N/A	N/A	N/A	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.59	217.0 / 172.0	1415247		10.411	NA	NA	NA	104.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.17	268.0 / 223.0	687309		4.732	NA	NA	NA	94.7
	13C5-PFHxA	EIS	1.91	318.0 / 273.0	350117		2.564	NA	NA	NA	102.6
	13C4-PFHpA	EIS	2.49	367.0 / 322.0	325808		2.473	NA	NA	NA	98.9
	13C8-PFOA	EIS	2.99	420.8 / 376.0	548325		2.398	NA	NA	NA	95.9
	13C9-PFNA	EIS	3.44	472.0 / 427.0	246248		1.299	NA	NA	NA	103.9
	13C6-PFDA	EIS	3.86	519.0 / 474.0	261204		1.272	NA	NA	NA	101.7
	13C7-PFUnA	EIS	4.26	570.0 / 525.0	272446		1.202	NA	NA	NA	96.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.65	615.1 / 570.0	258516		1.134	NA	NA	NA	90.7
	13C2-PFTeDA	EIS	5.40	715.1 / 670.1	180888		1.223	NA	NA	NA	97.9
	13C3-PFBS	EIS	1.91	302.1 / 80.1	325728		2.455	NA	NA	NA	105.4
	13C3-PFHxS	EIS	3.09	402.1 / 80.1	291079		2.468	NA	NA	NA	104.1
	13C8-PFOS	EIS	4.01	507.1 / 80.1	308868		2.513	NA	NA	NA	104.7
	13C2-4:2FTS	EIS	1.70	329.1 / 81.1	101694		5.197	NA	NA	NA	110.8
	13C2-6:2FTS	EIS	2.80	429.2 / 81.1	88735		5.267	NA	NA	NA	110.6
	13C2-8:2FTS	EIS	3.68	529.2 / 81.1	75674		4.789	NA	NA	NA	99.8

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.25	506.1 / 78.1	481669		2.469	NA	NA	NA	98.7
d3-NMeFOSA	EIS	5.97	515.2 / 219.0	83321		2.365	NA	NA	NA	94.6
d5-NEtFOSA	EIS	6.26	531.2 / 219.0	77363		2.415	NA	NA	NA	96.6
d3-NMeFOSAA	EIS	3.99	573.2 / 419.1	115213		4.800	NA	NA	NA	96.0
d5-NEtFOSAA	EIS	4.20	589.3 / 419.1	107907		5.513	NA	NA	NA	110.3
d7-NMeFOSE	EIS	5.83	623.2 / 58.9	619618		24.451	NA	NA	NA	97.8
d9-NEtFOSE	EIS	6.12	639.2 / 58.9	830409		24.427	NA	NA	NA	97.7

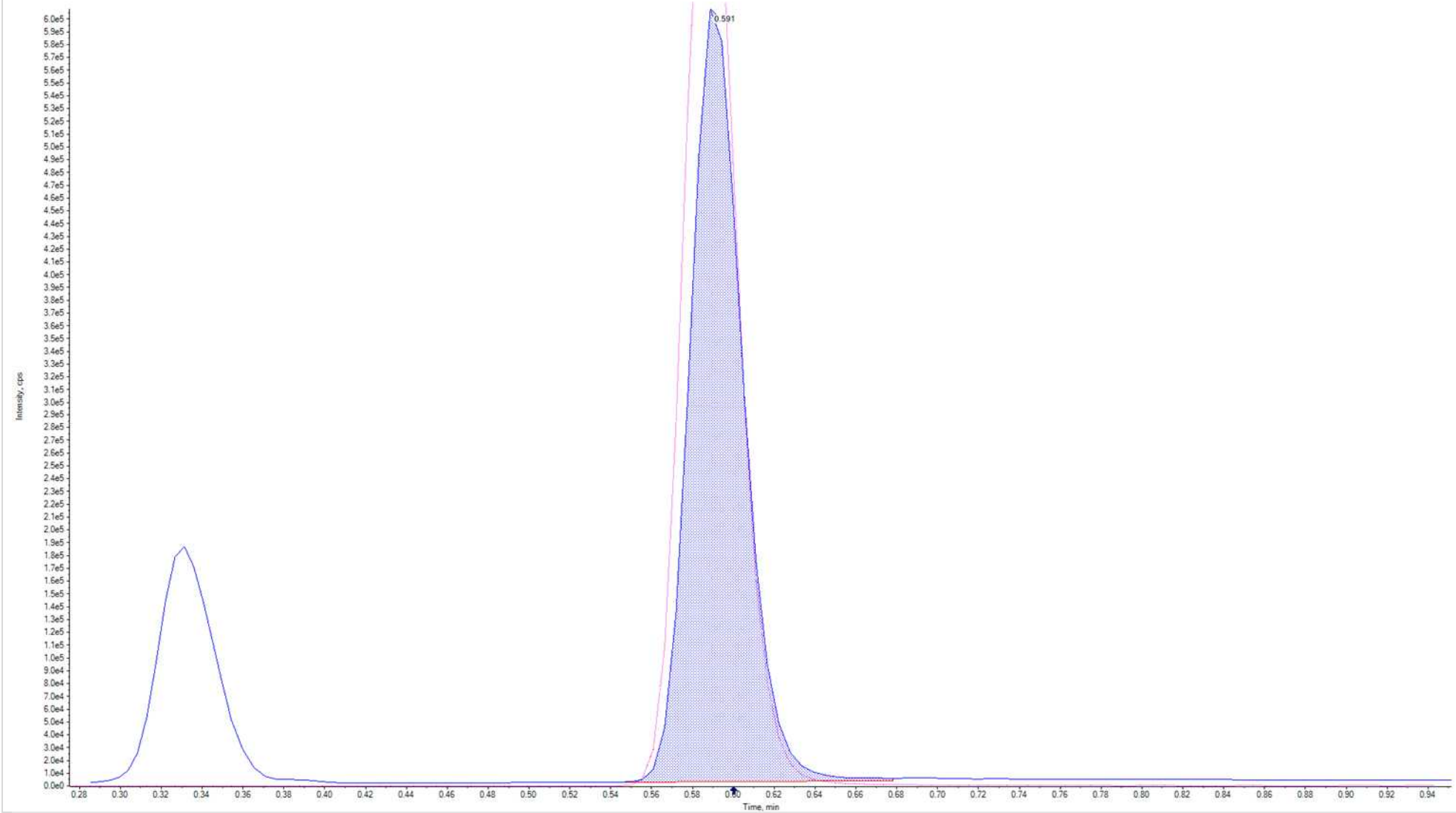
	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.12	287.0 / 169.0	1356747		9.394	NA	NA	NA	93.9
	13C3-PFBA	NIS	0.59	216.0 / 172.0	601511		4.150	NA	NA	NA	83.0
	13C2-PFHxA	NIS	1.91	315.0 / 270.0	402082		2.481	NA	NA	NA	99.2
	13C4-PFOA	NIS	2.99	417.0 / 372.0	347473		2.417	NA	NA	NA	96.7
	13C5-PFNA	NIS	3.44	468.0 / 423.0	237522		1.153	NA	NA	NA	92.2
	13C2-PFDA	NIS	3.86	515.1 / 470.1	239699		1.127	NA	NA	NA	90.2
	18O2-PFHxS	NIS	3.09	403.1 / 84.1	248006		2.107	NA	NA	NA	88.9
	13C4-PFOS	NIS	4.01	503.1 / 80.1	247235		2.057	NA	NA	NA	85.7

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

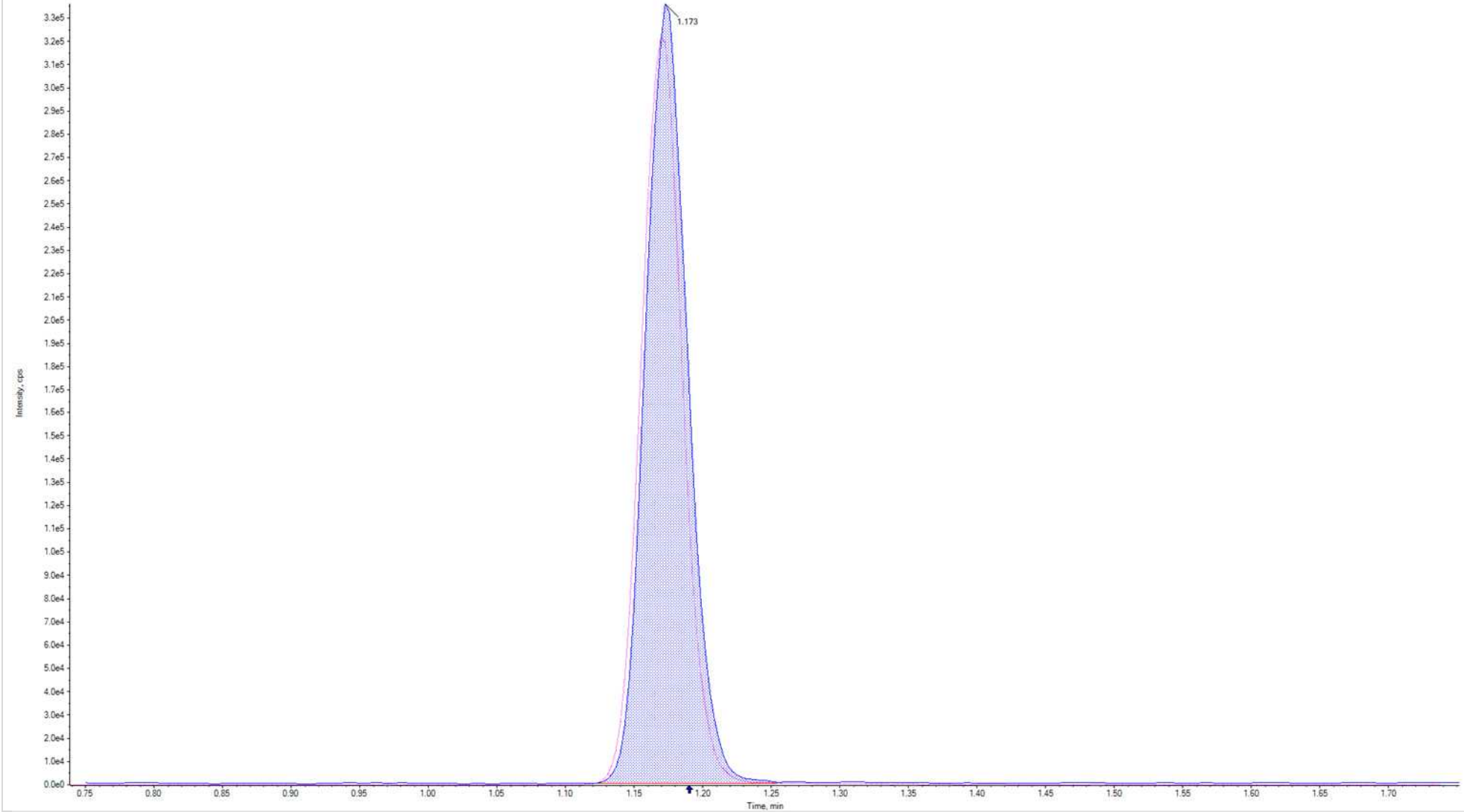
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PFBA
Sample: WG2038443-4 S/N:392.0 Points Across peak:28



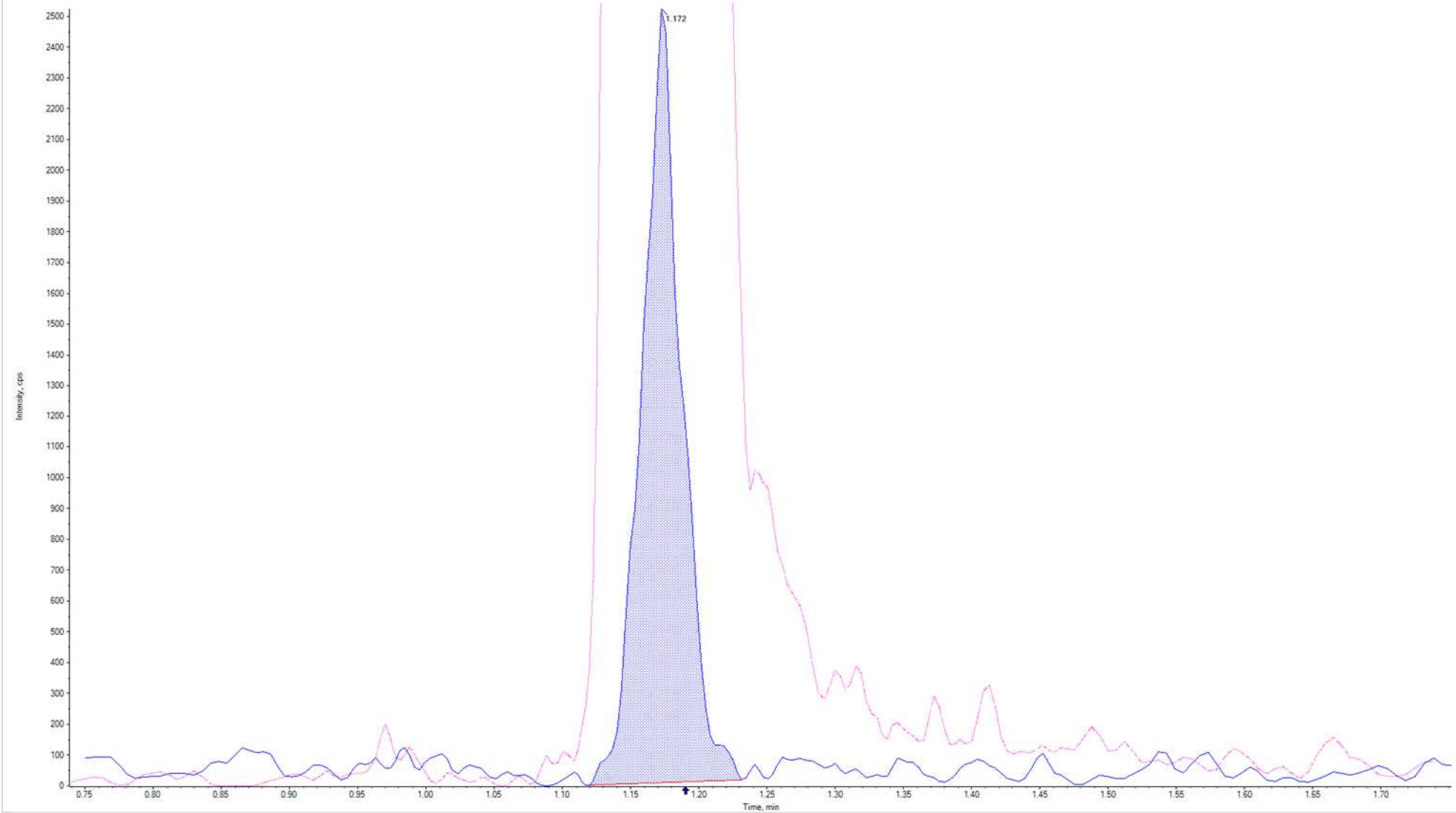
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PFPeA
Sample: WG2038443-4 S/N:2417.3 Points Across peak:43



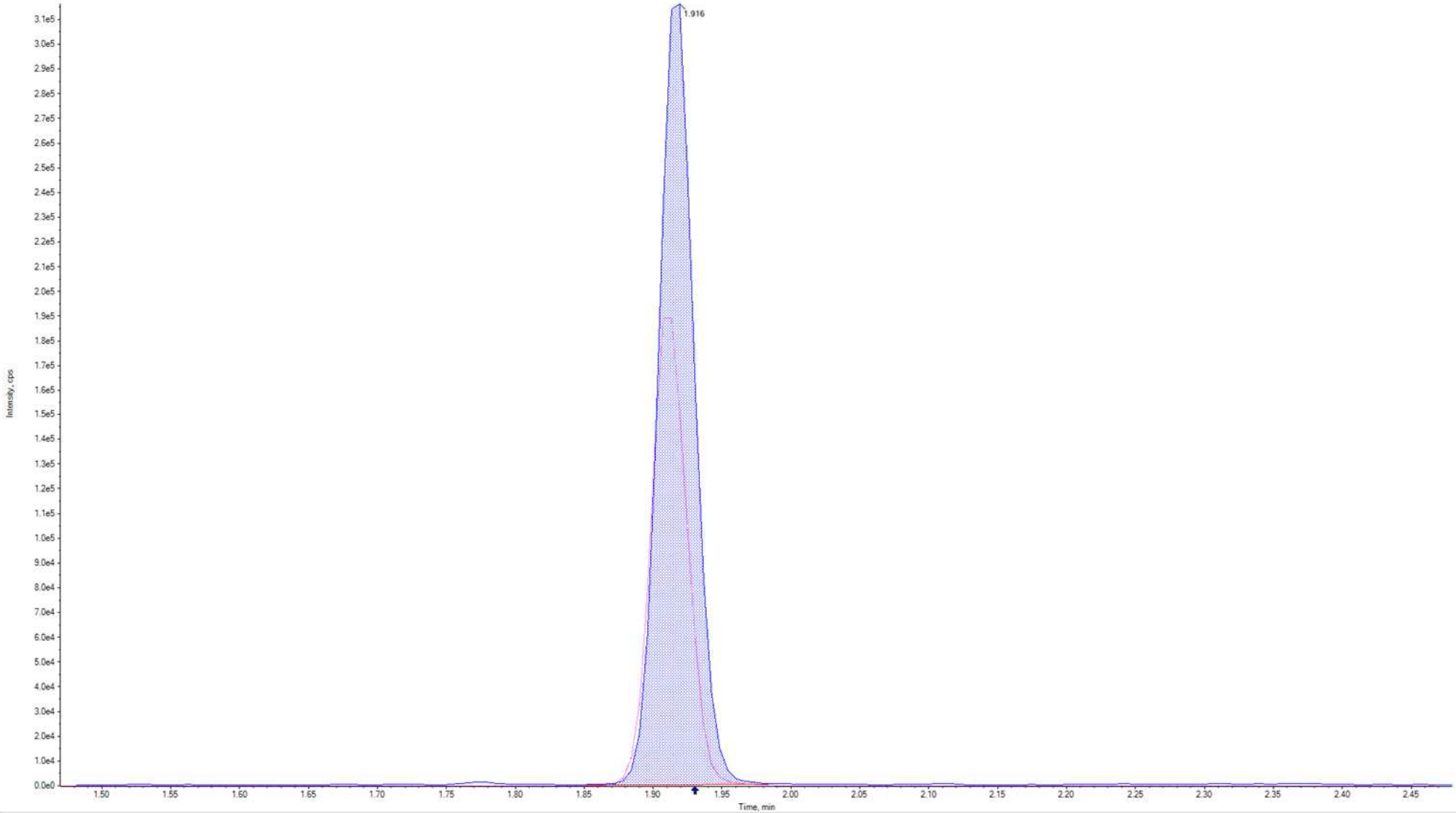
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PFPeA_2
Sample: WG2038443-4 S/N:151.2 Points Across peak:36



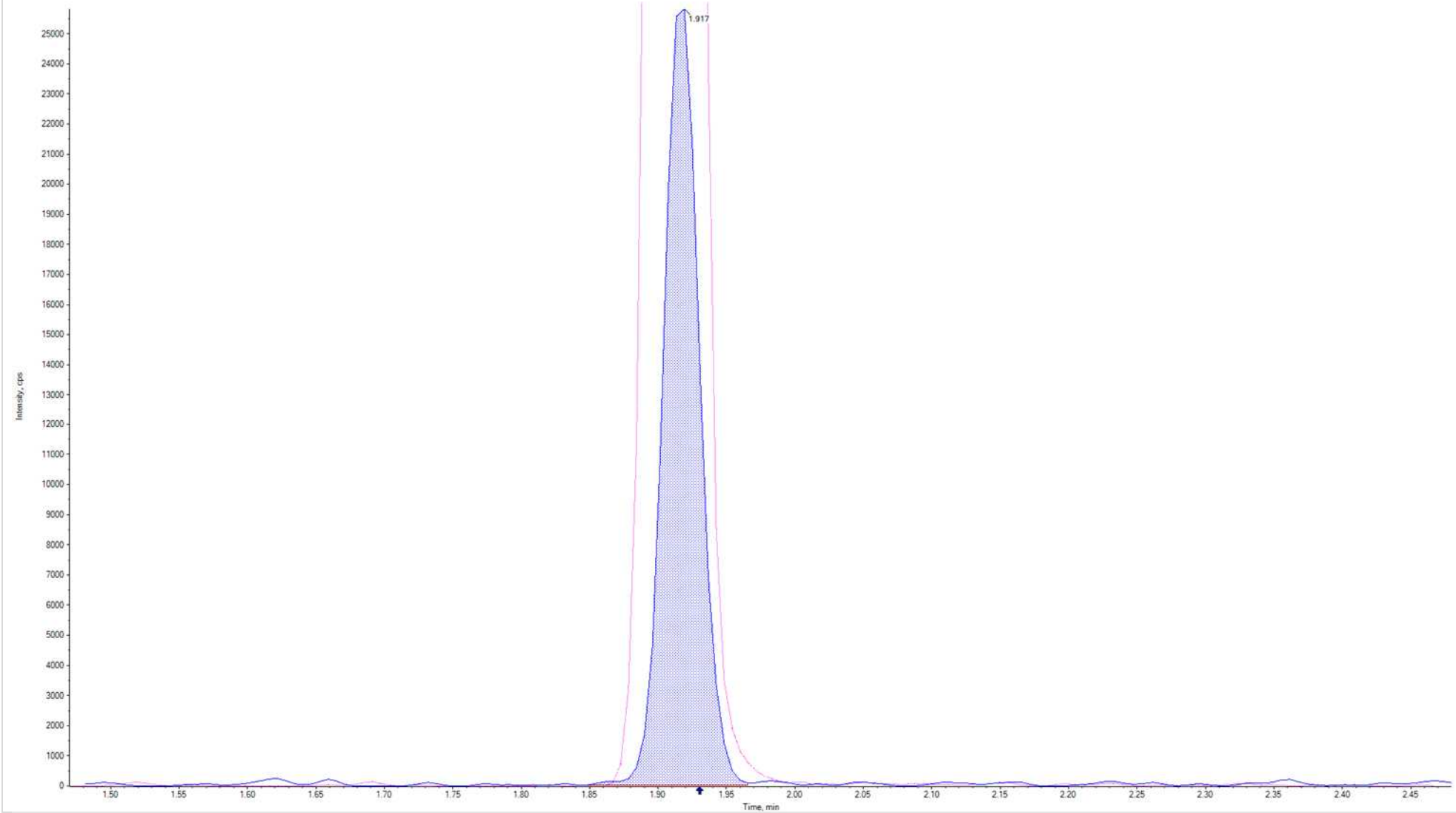
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PFHxA
Sample: WG2038443-4 S/N:2273.3 Points Across peak:25



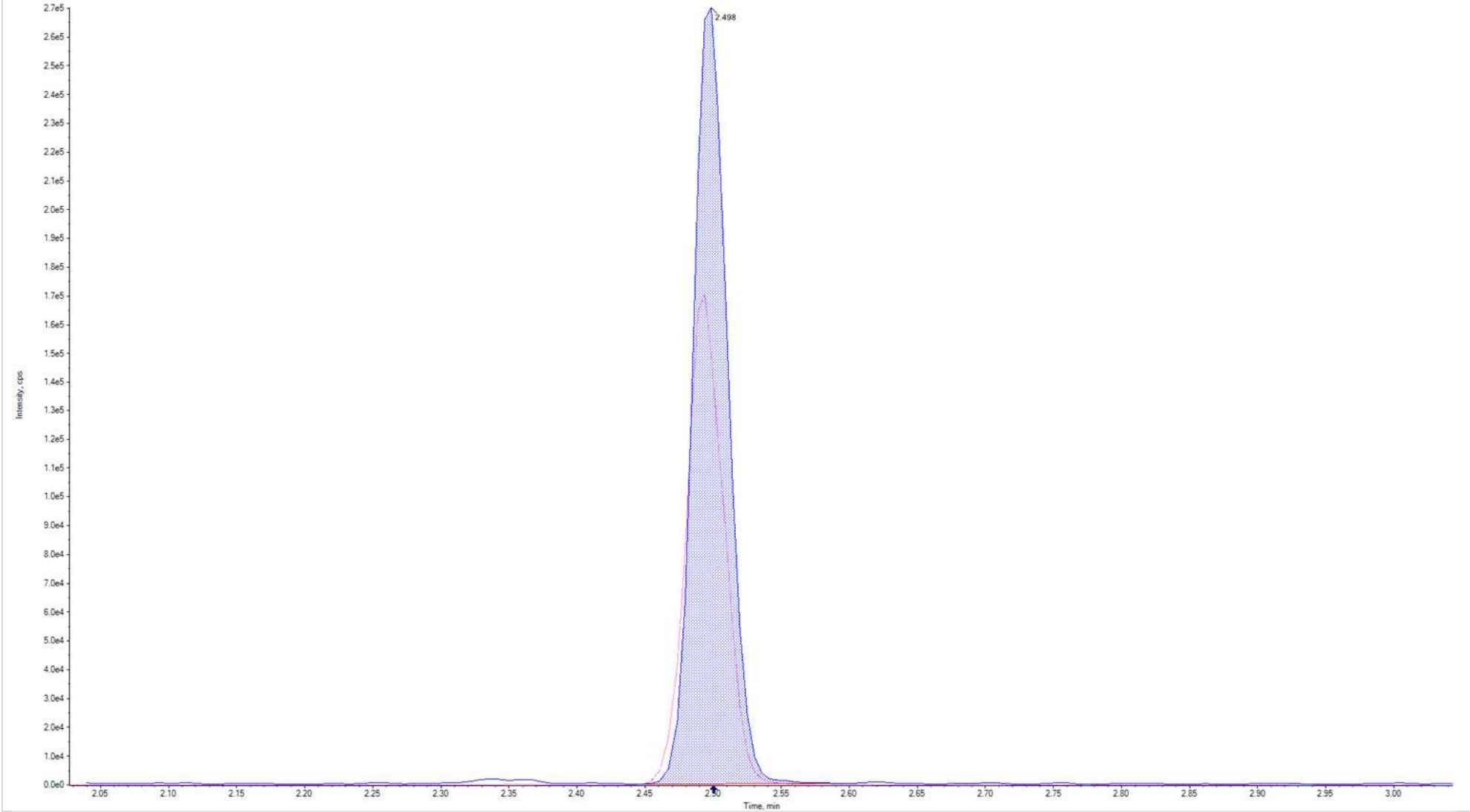
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PFHxA_2
Sample: WG2038443-4 S/N:646.7 Points Across peak:22



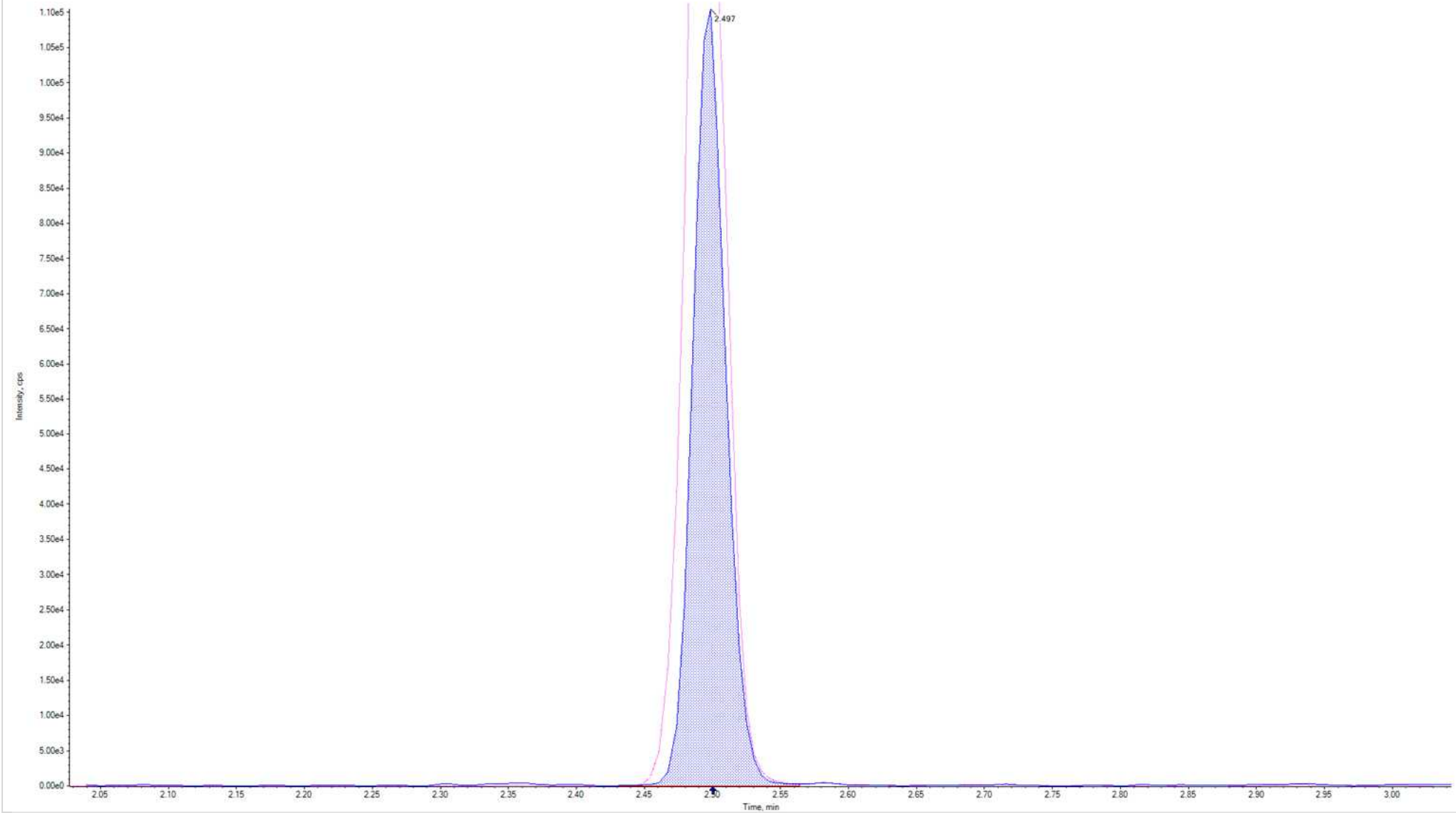
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PFHpA
Sample: WG2038443-4 S/N:2186.1 Points Across peak:28



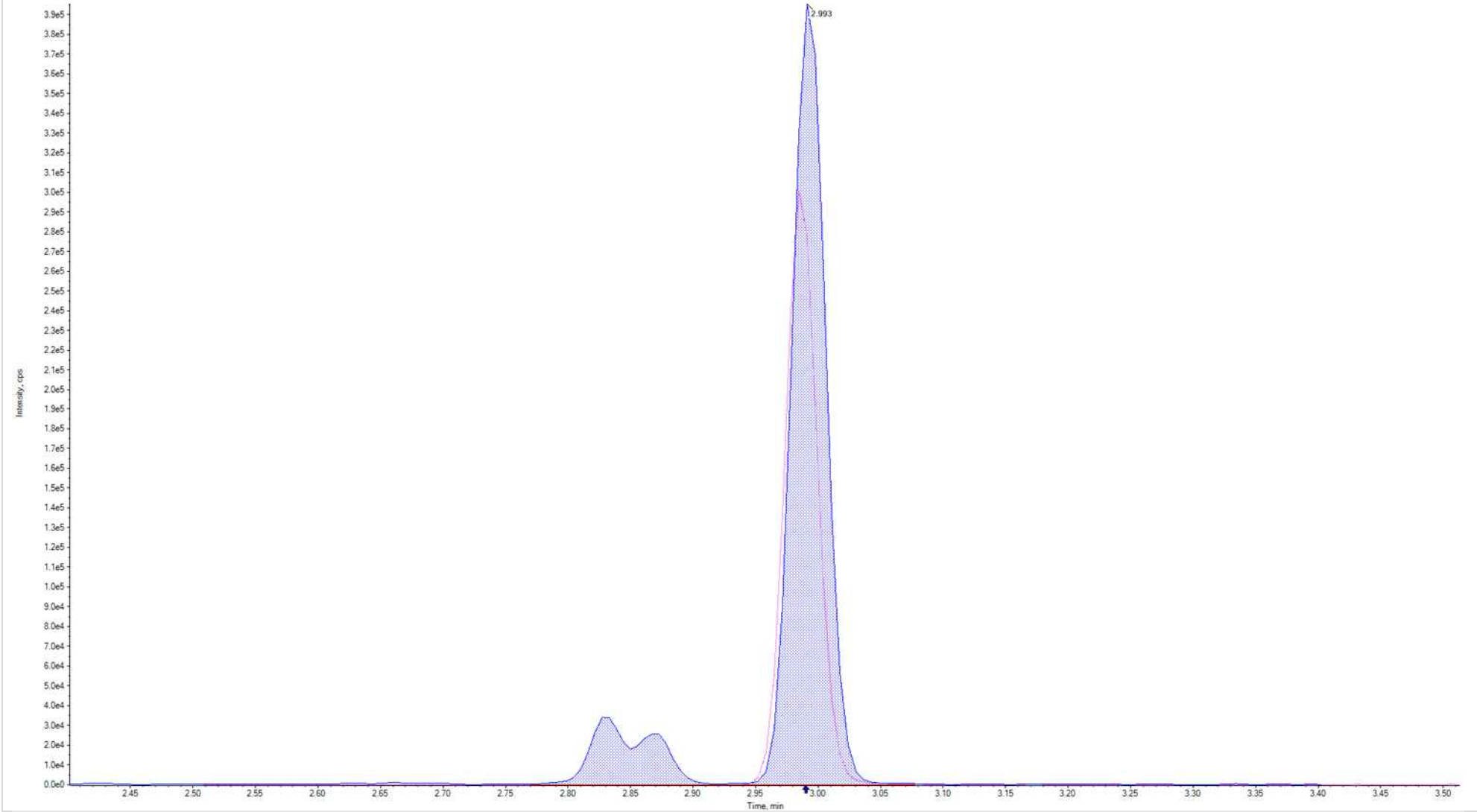
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PFHpA_2
Sample: WG2038443-4 S/N:2214.3 Points Across peak:26



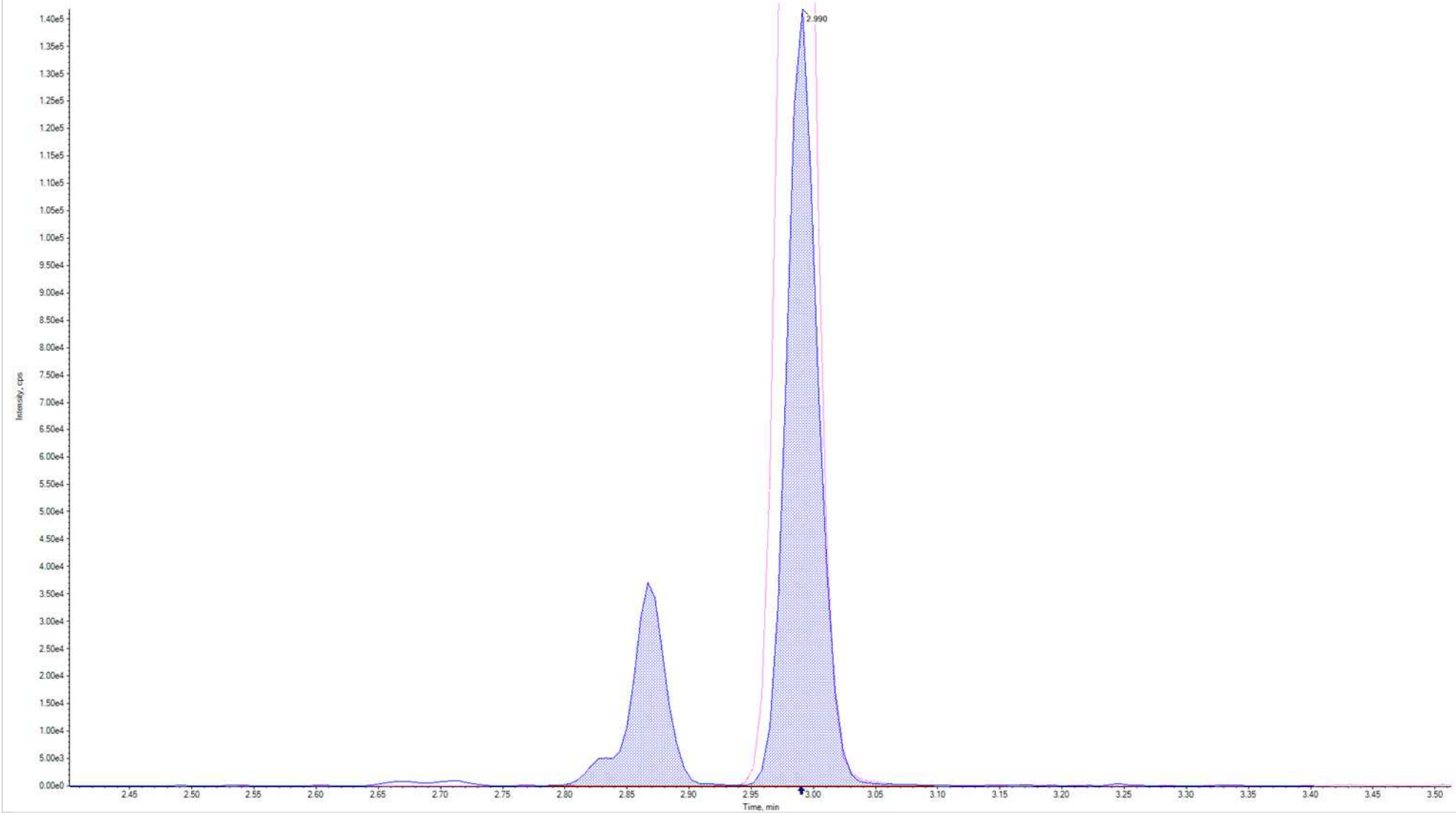
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PFOA
Sample: WG2038443-4 S/N:809.5 Points Across peak:53



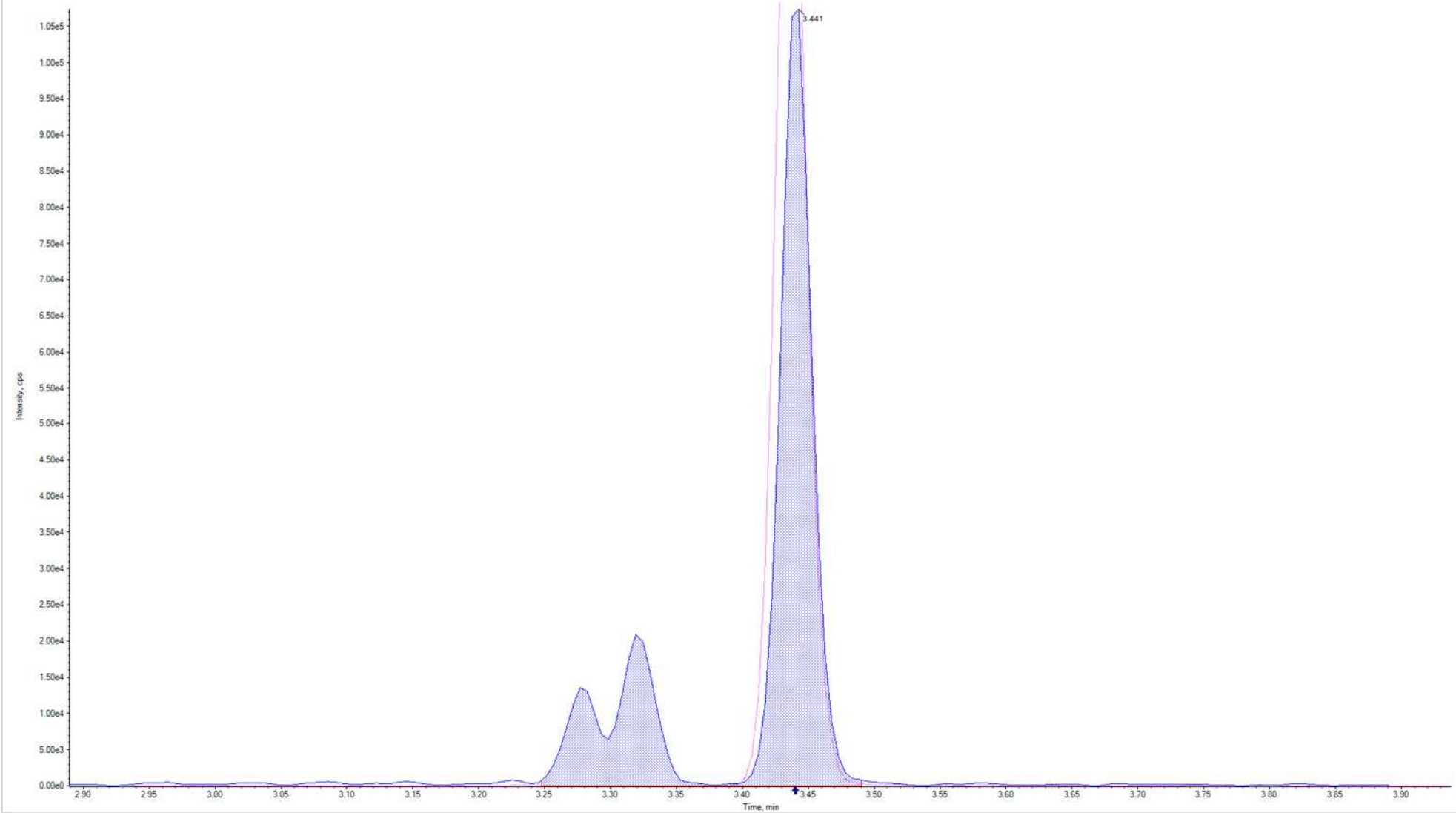
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PFOA_2
Sample: WG2038443-4 S/N:606.0 Points Across peak:54



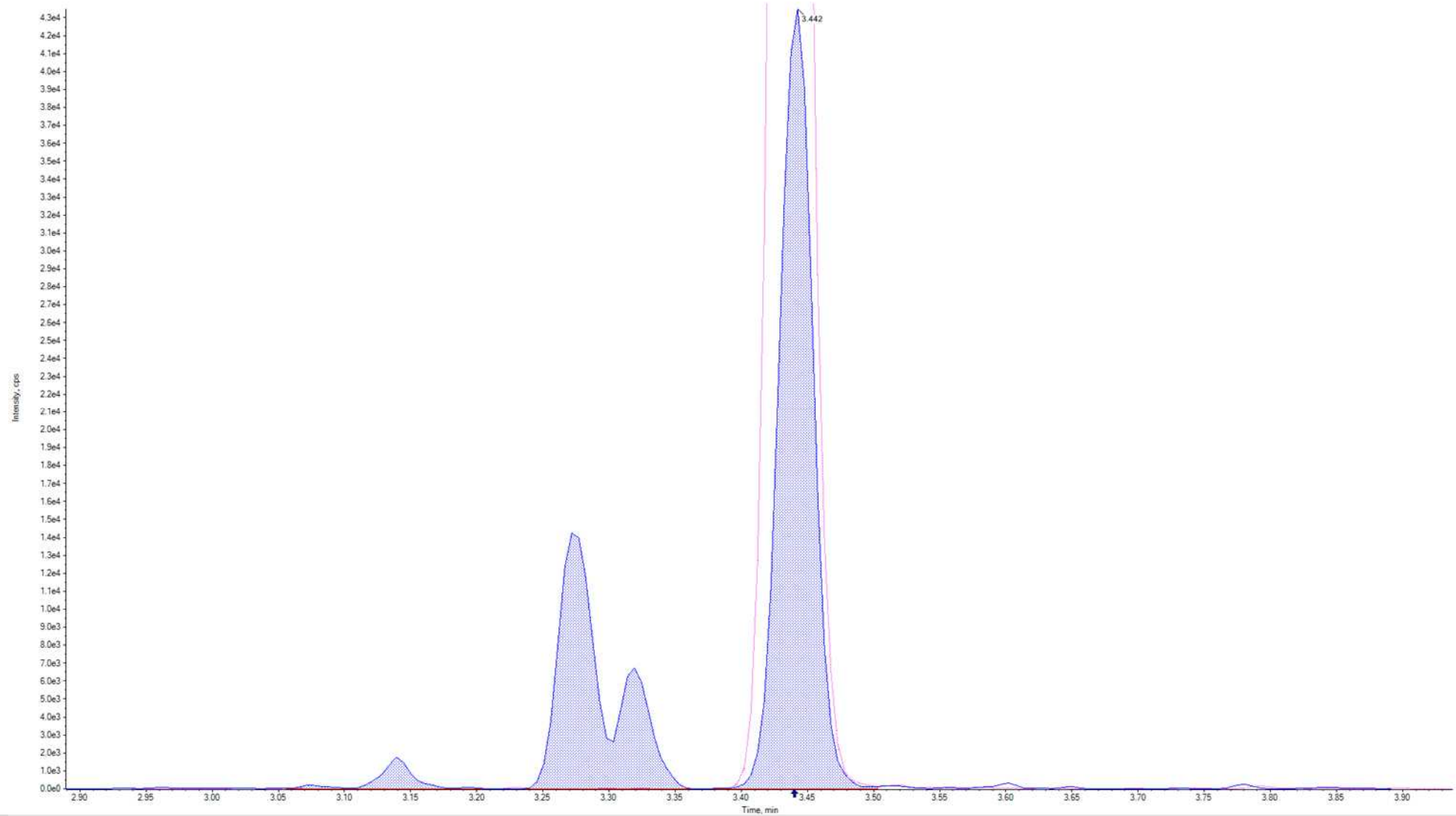
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PFNA
Sample: WG2038443-4 S/N:430.6 Points Across peak:49



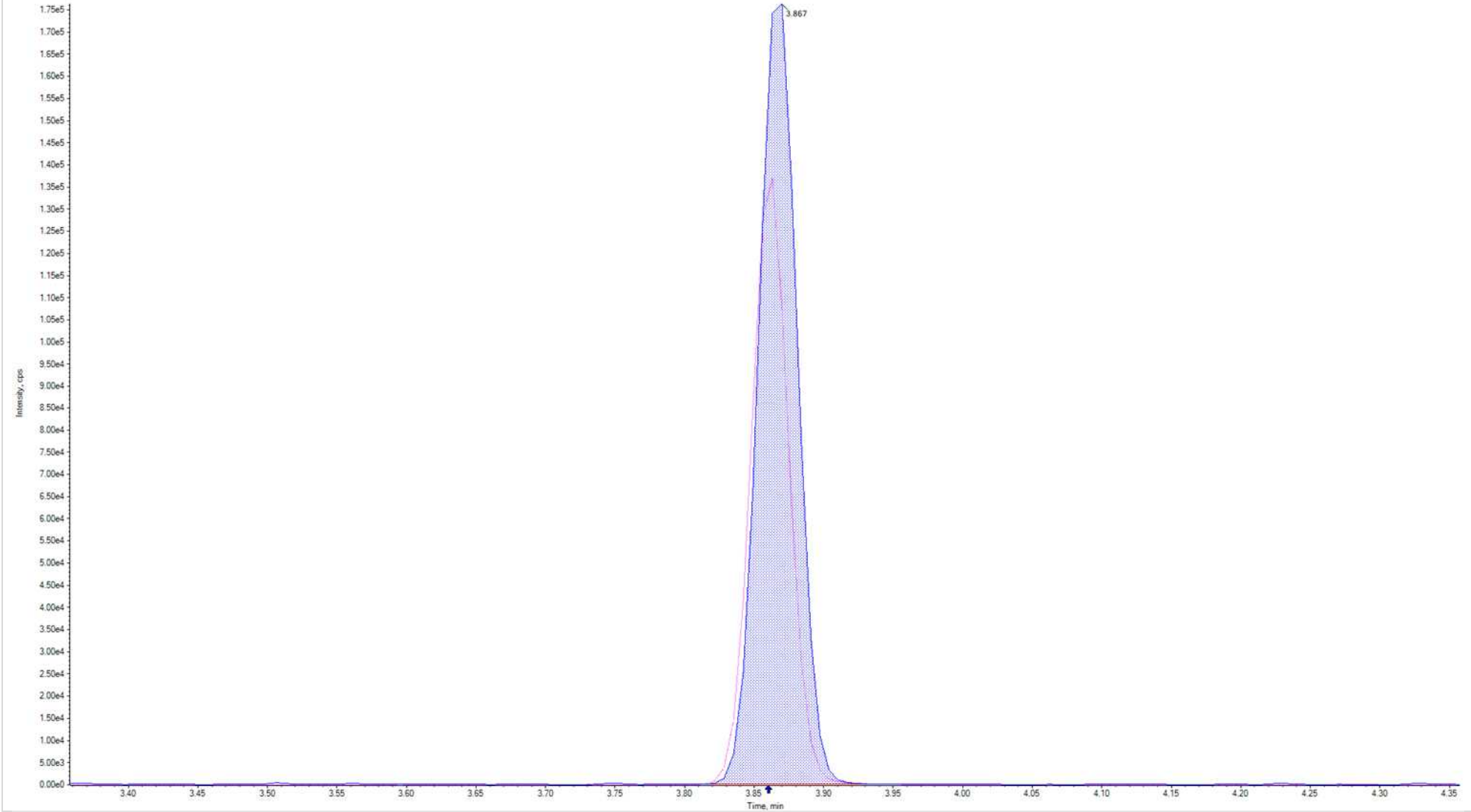
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PFNA_2
Sample: WG2038443-4 S/N:349.5 Points Across peak:84



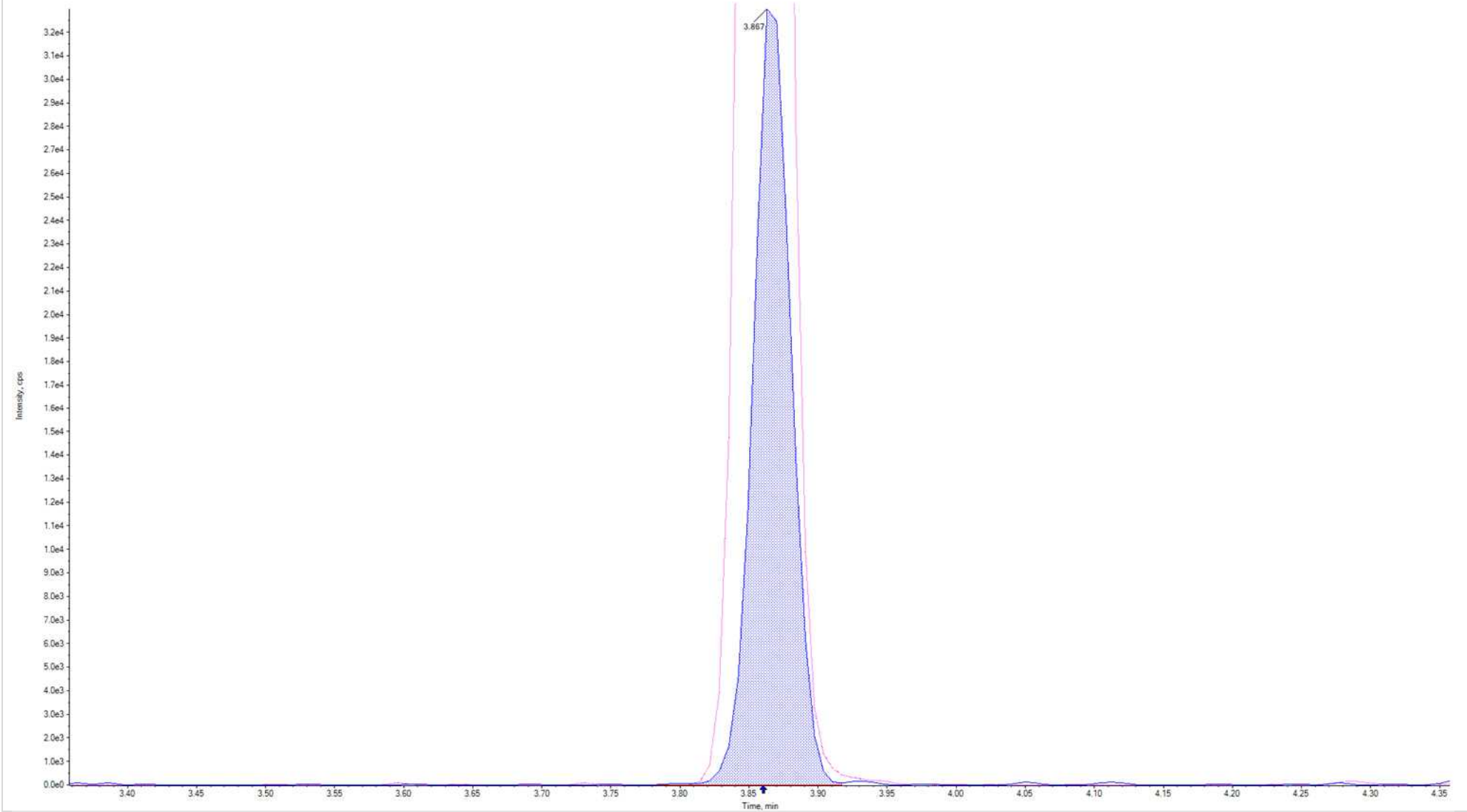
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFDA
Sample: WG2038443-4 S/N:3533.8 Points Across peak:24



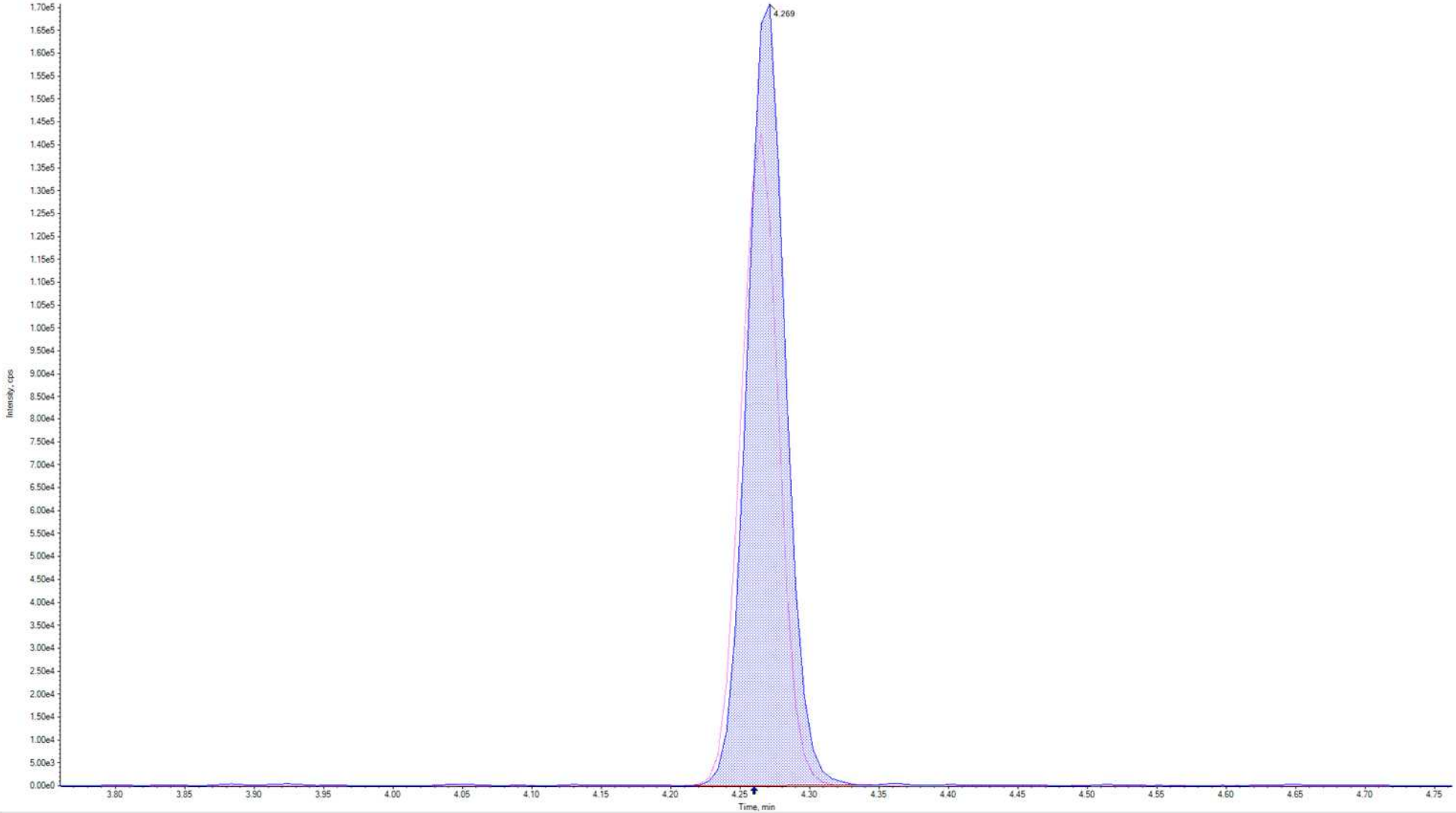
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Alpha Analytical LLC
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PFDA_2
Sample: WG2038443-4 S/N:661.4 Points Across peak:22



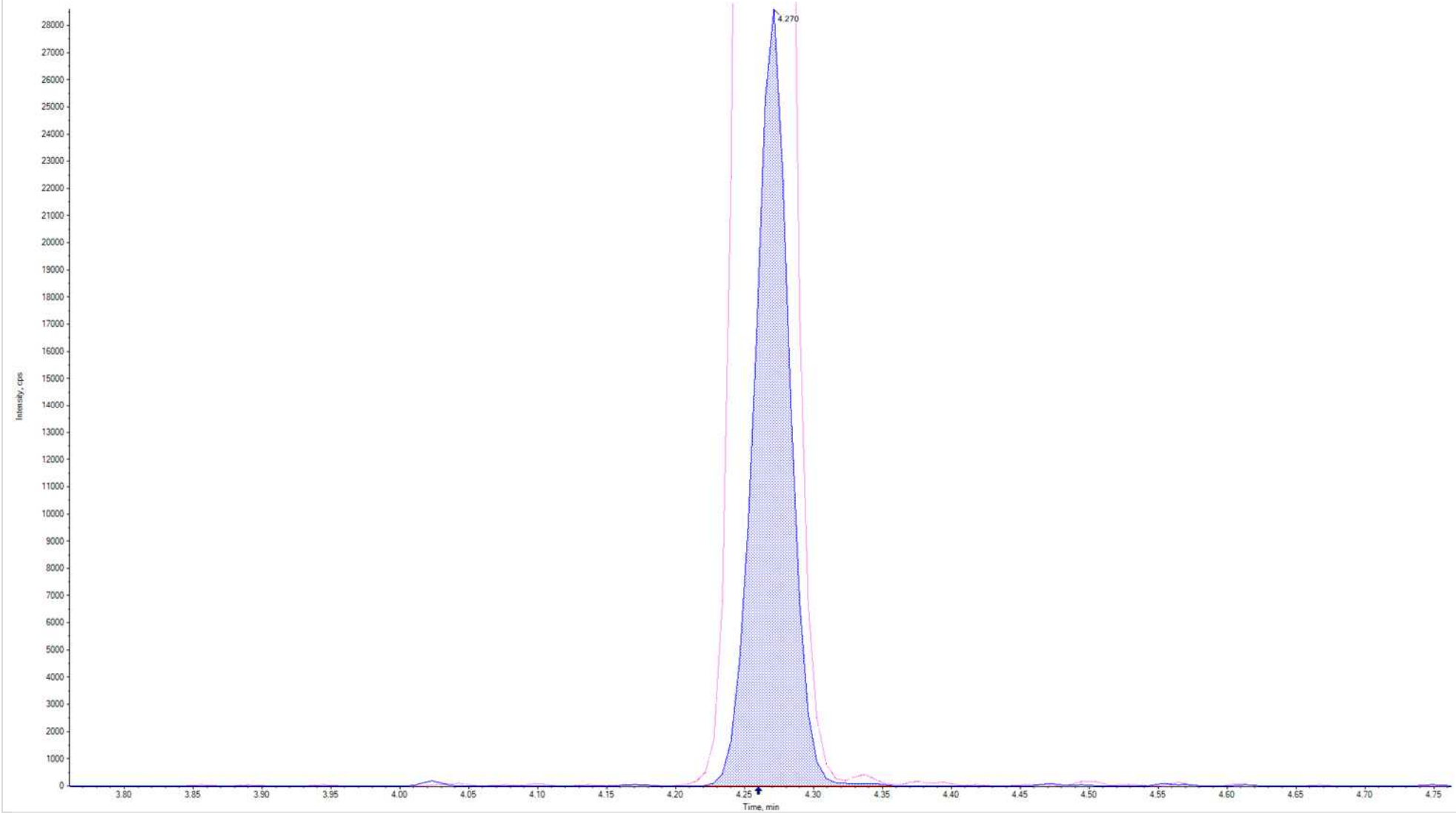
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Alpha Analytical LLC
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PFUnA
Sample: WG2038443-4 S/N:3851.0 Points Across peak:22



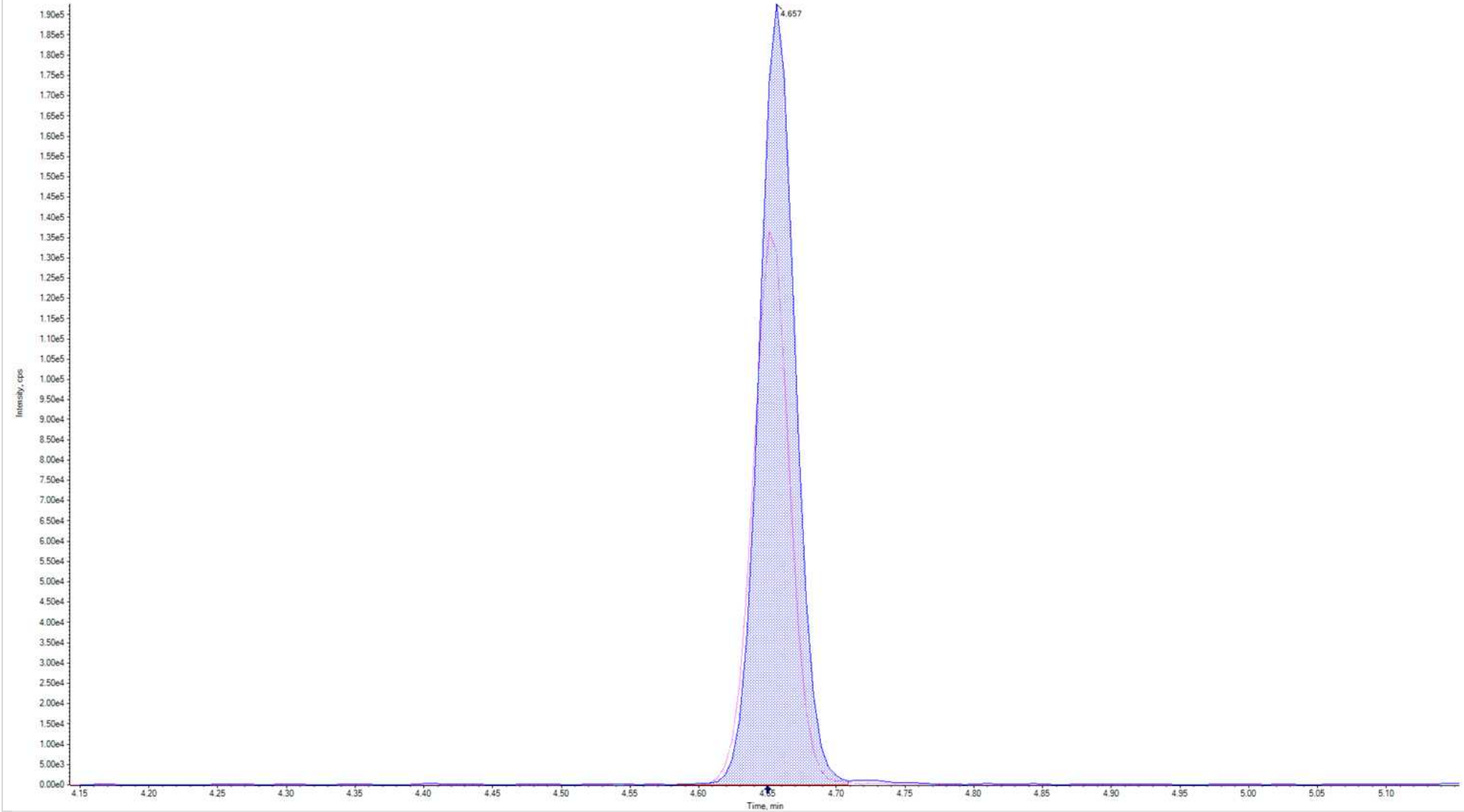
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Alpha Analytical LLC
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PFUnA_2
Sample: WG2038443-4 S/N:645.2 Points Across peak:31



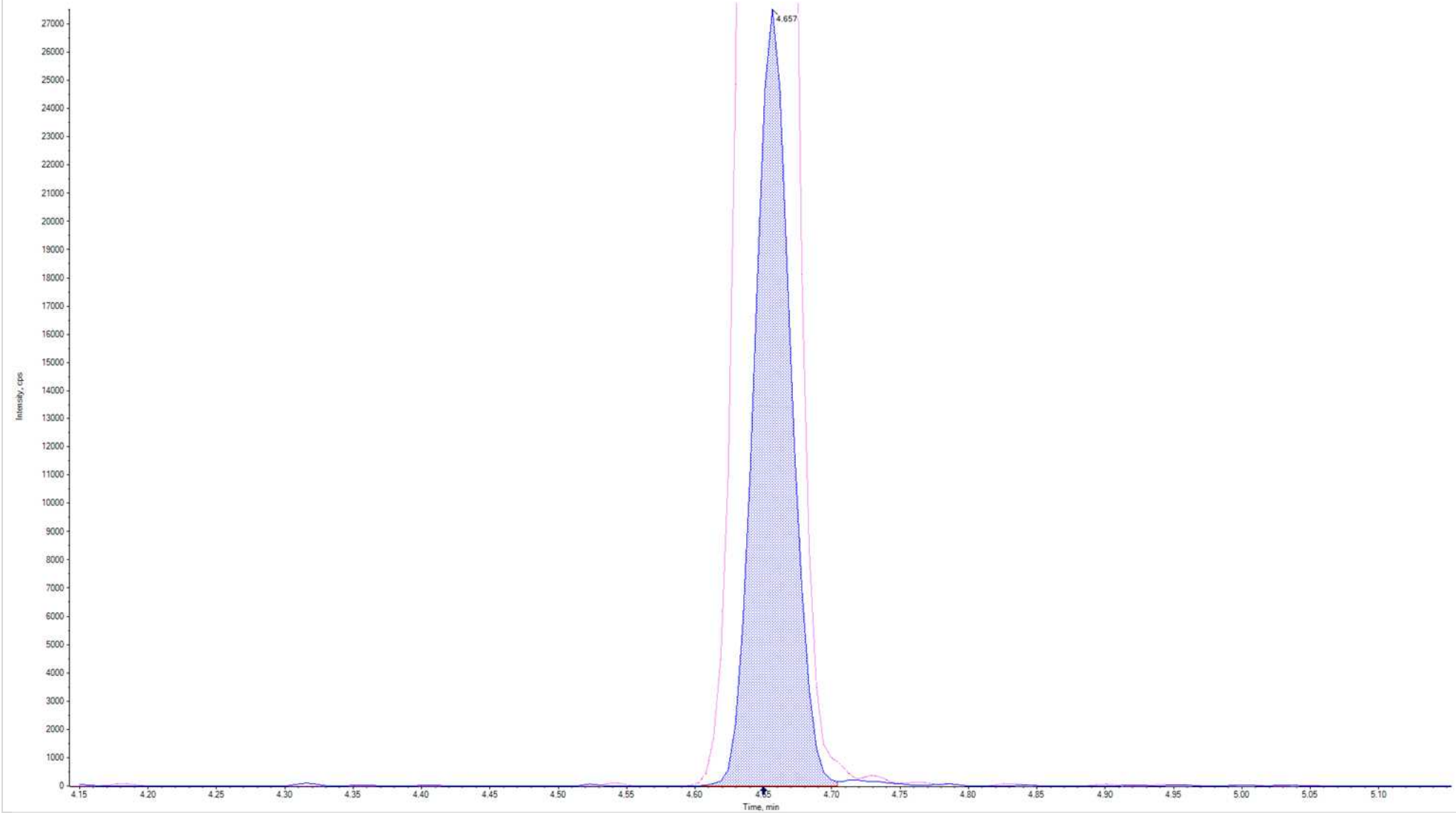
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Alpha Analytical LLC
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PFDoA
Sample: WG2038443-4 S/N:4817.9 Points Across peak:25



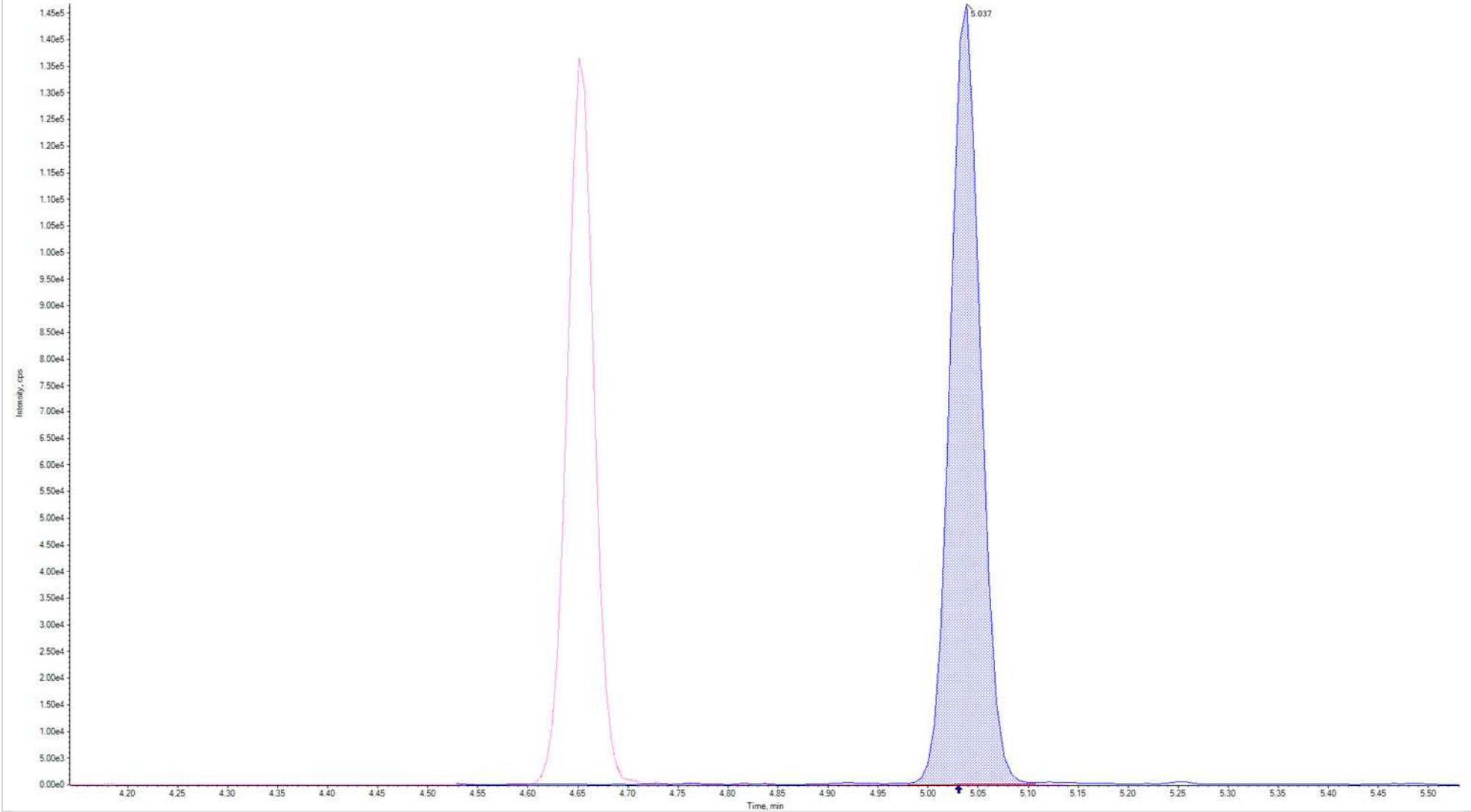
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Alpha Analytical LLC
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PFDoA_2
Sample: WG2038443-4 S/N:758.8 Points Across peak:24



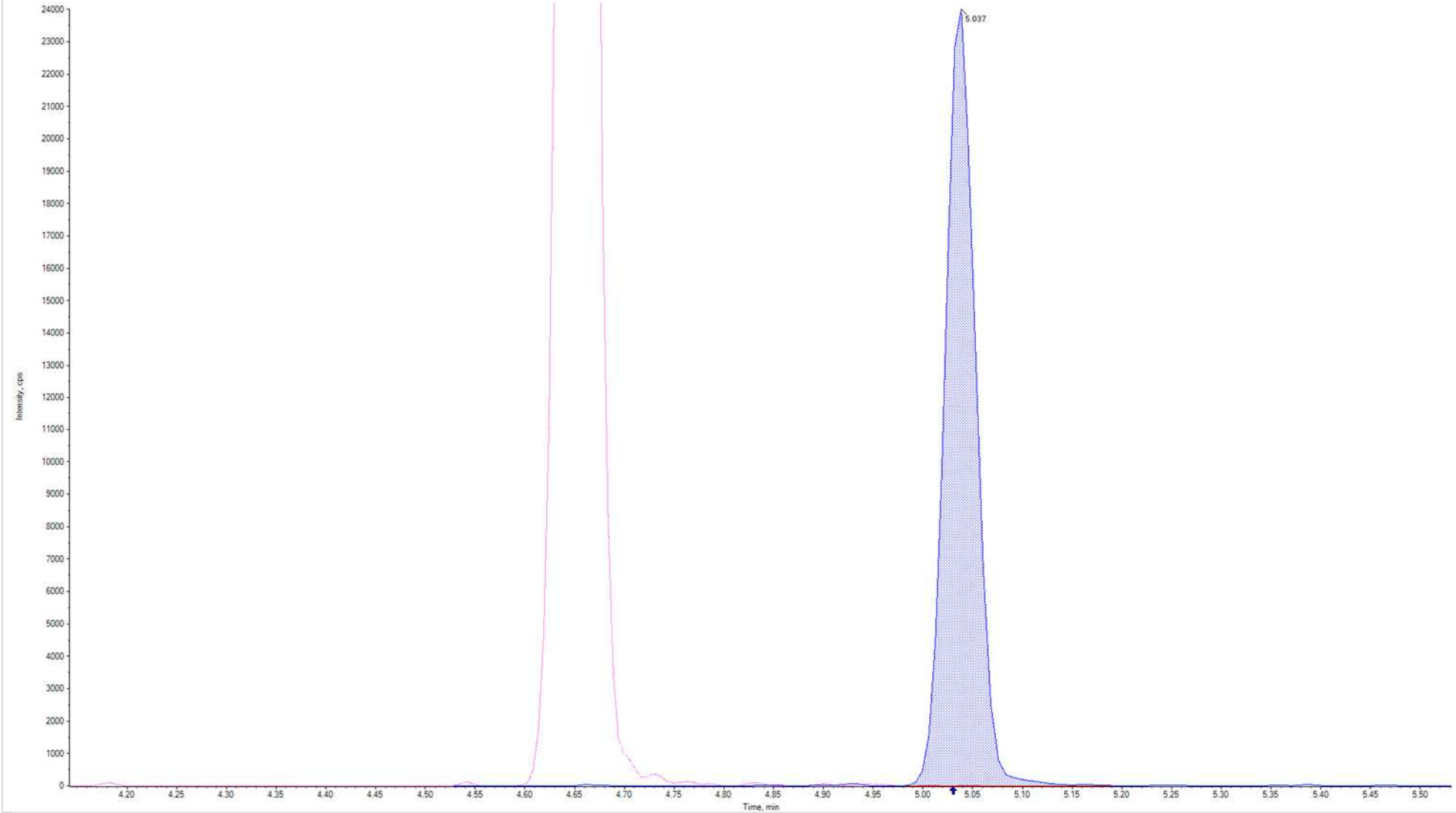
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

PFTrDA
Sample: WG2038443-4 S/N:2716.5 Points Across peak:19



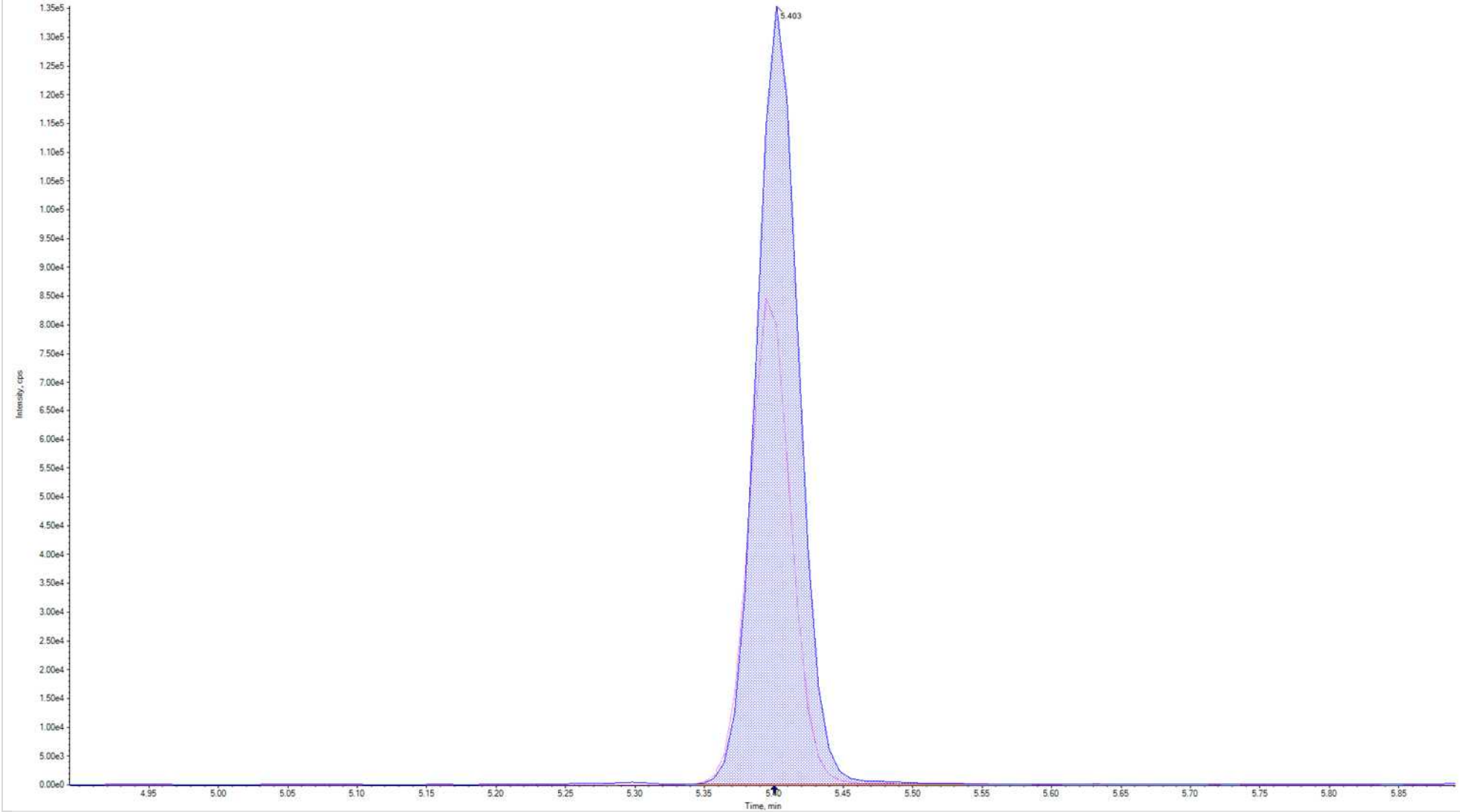
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Alpha Analytical LLC
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PFTrDA_2
Sample: WG2038443-4 S/N:962.9 Points Across peak:35



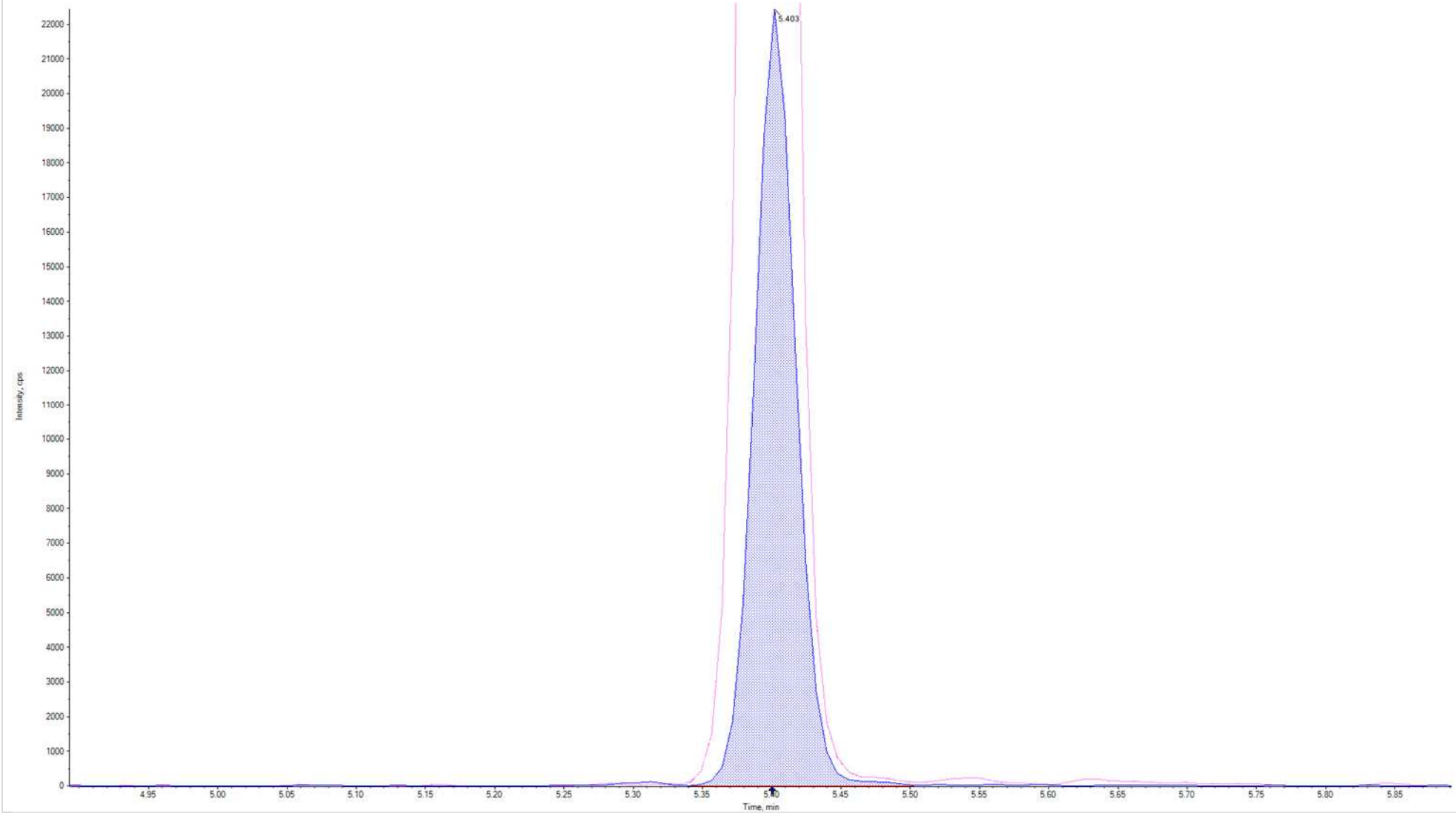
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFTeDA
Sample: WG2038443-4 S/N:2992.1 Points Across peak:28



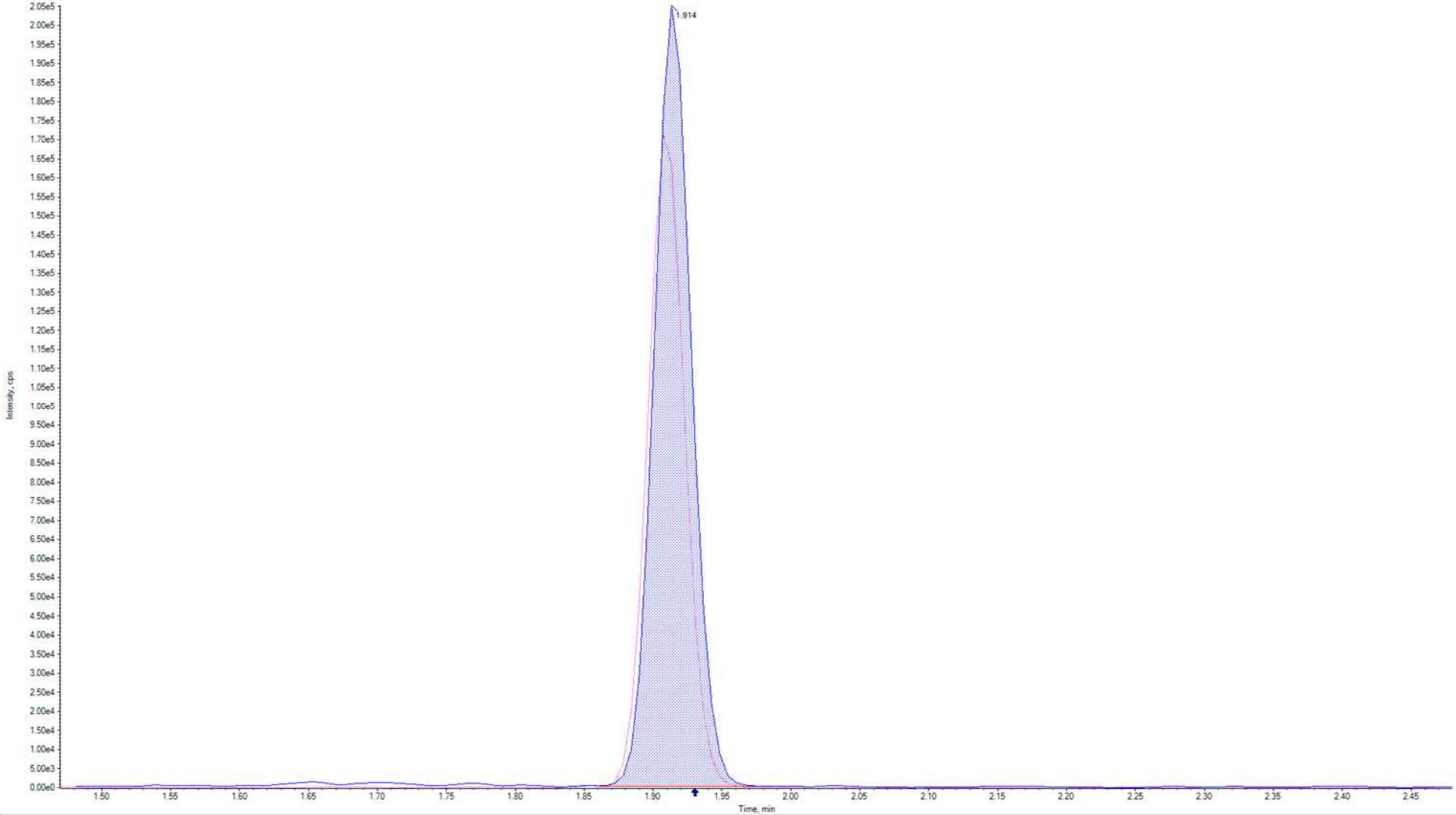
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFTeDA_2
Sample: WG2038443-4 S/N:1406.3 Points Across peak:21



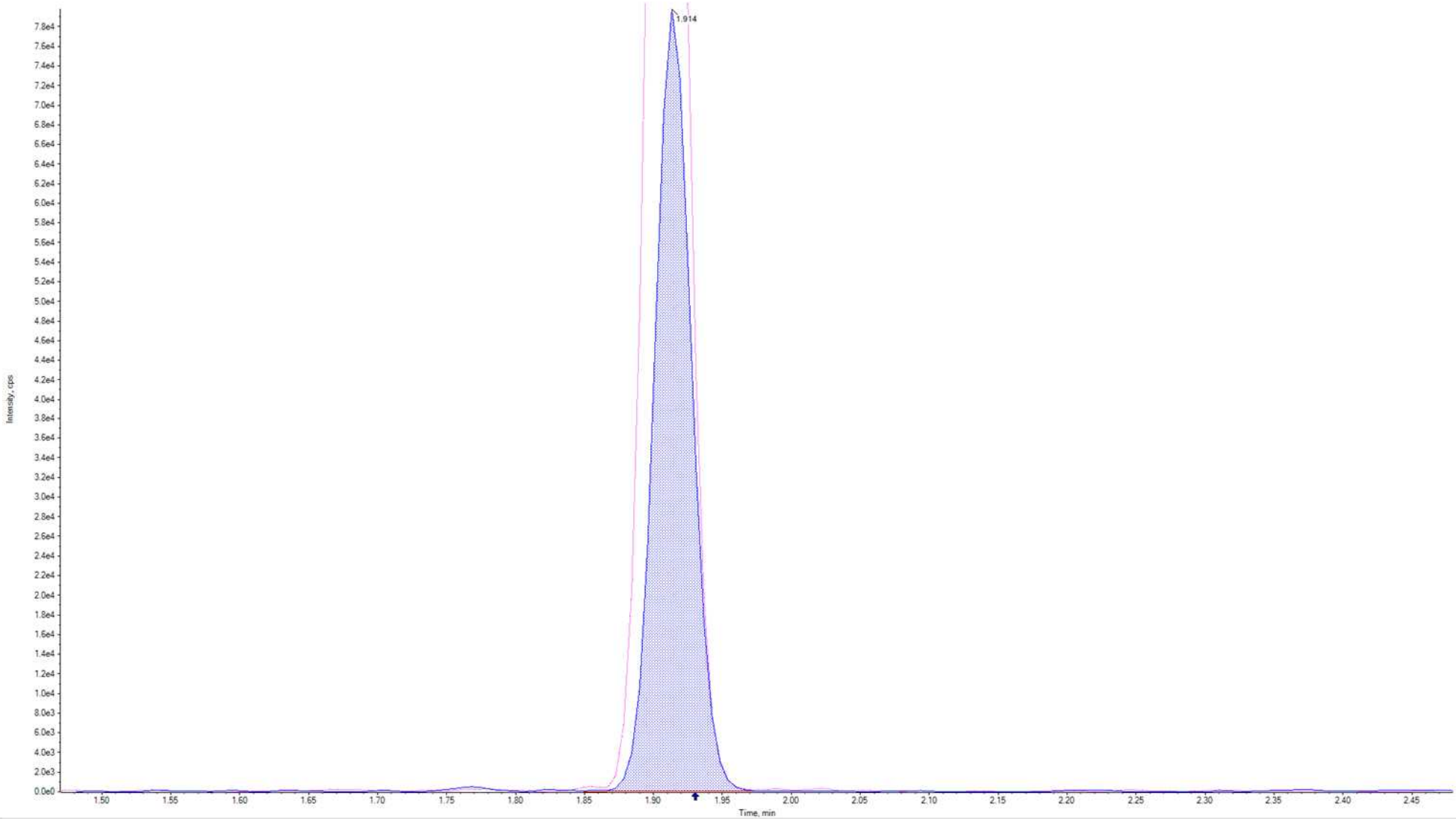
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Generated: 3/11/2025 12:26:59 PM

PFBS
Sample: WG2038443-4 S/N:5133.6 Points Across peak:21



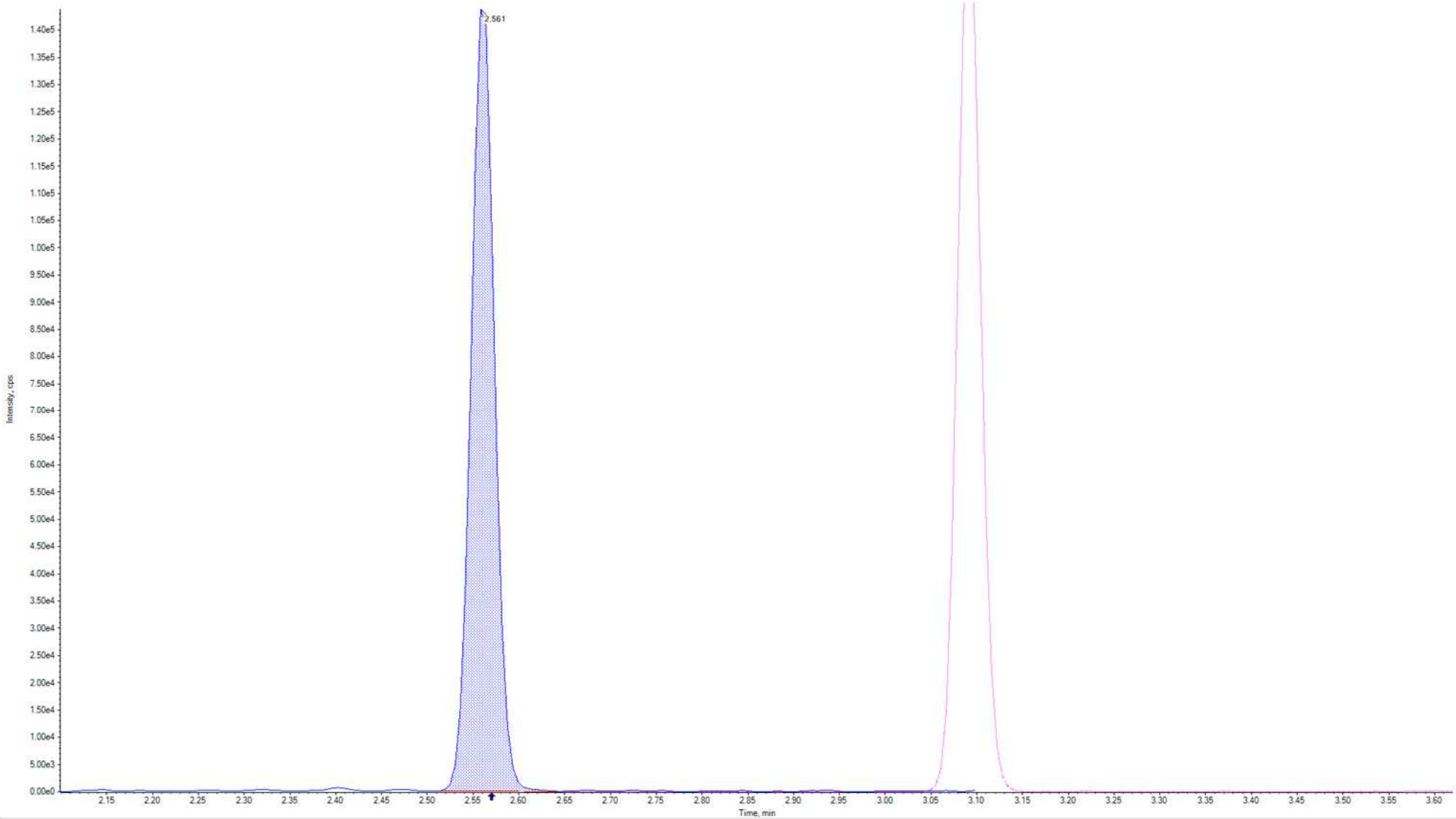
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Alpha Analytical LLC
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PFBS_2
Sample: WG2038443-4 S/N:1998.9 Points Across peak:23



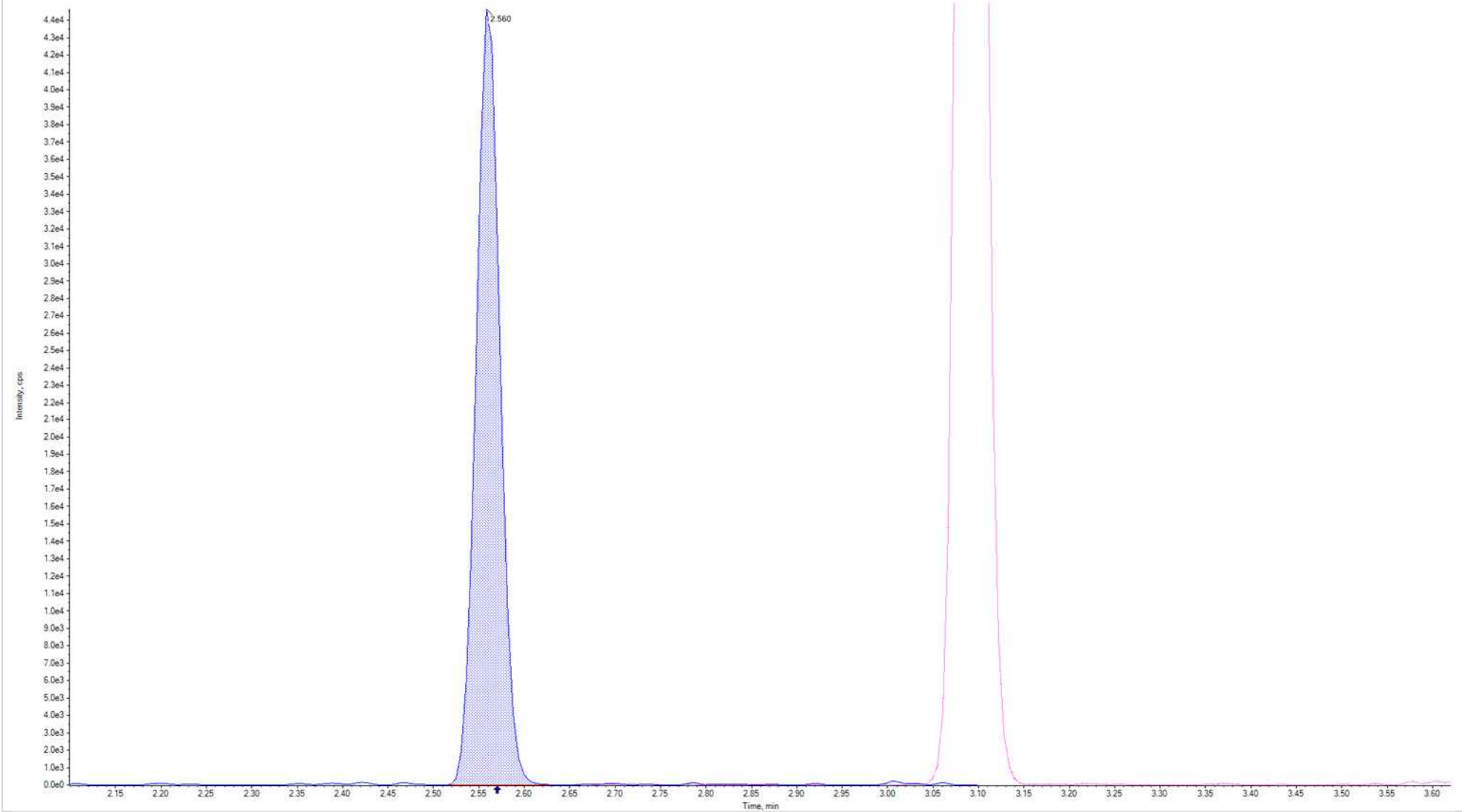
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PFPeS
Sample: WG2038443-4 S/N:2883.2 Points Across peak:24



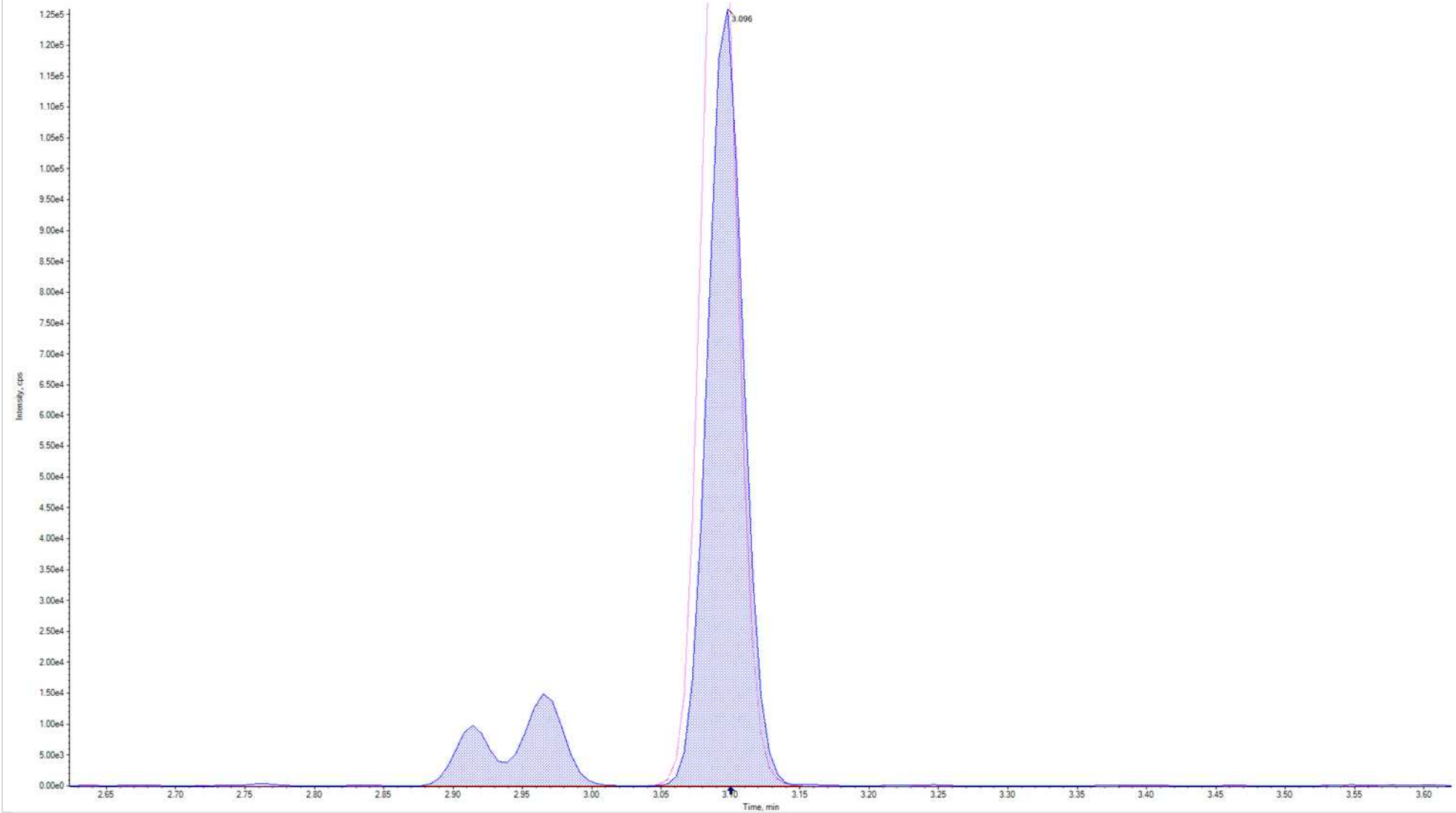
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PFPeS_2
Sample: WG2038443-4 S/N:895.2 Points Across peak:25



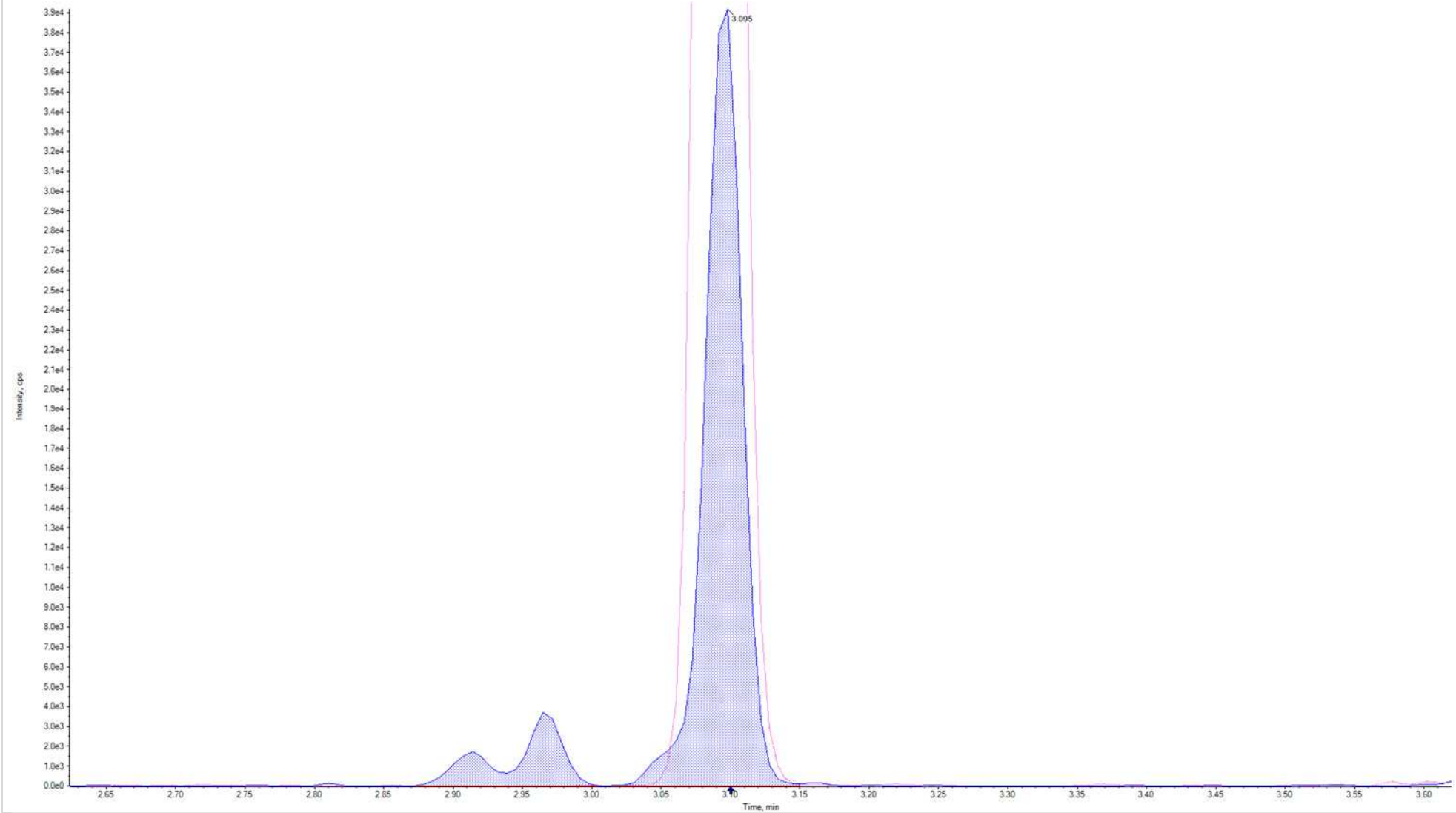
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

PFHxS
Sample: WG2038443-4 S/N:806.9 Points Across peak:47



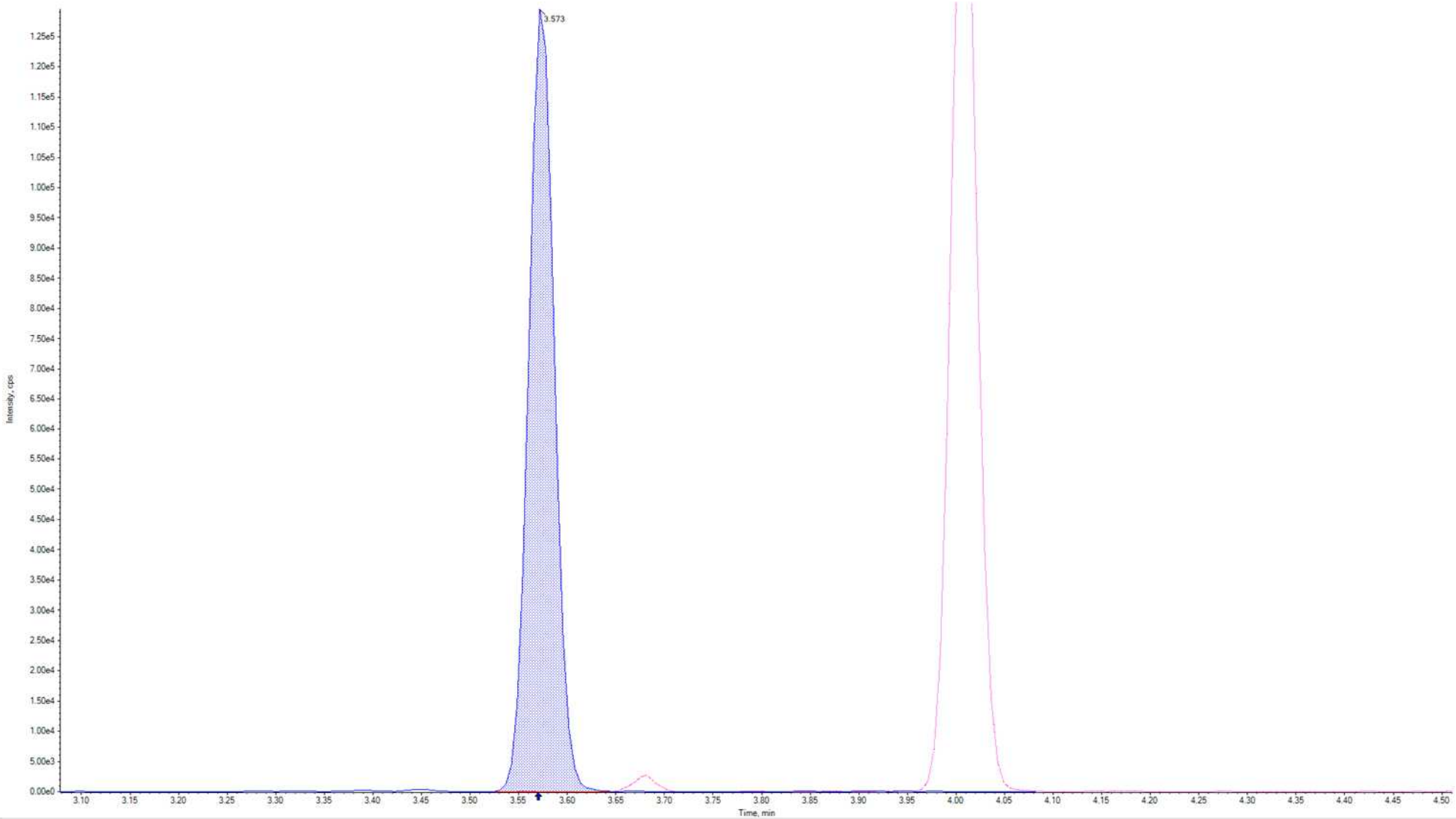
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Alpha Analytical LLC
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PFHxS_2
Sample: WG2038443-4 S/N:838.0 Points Across peak:46



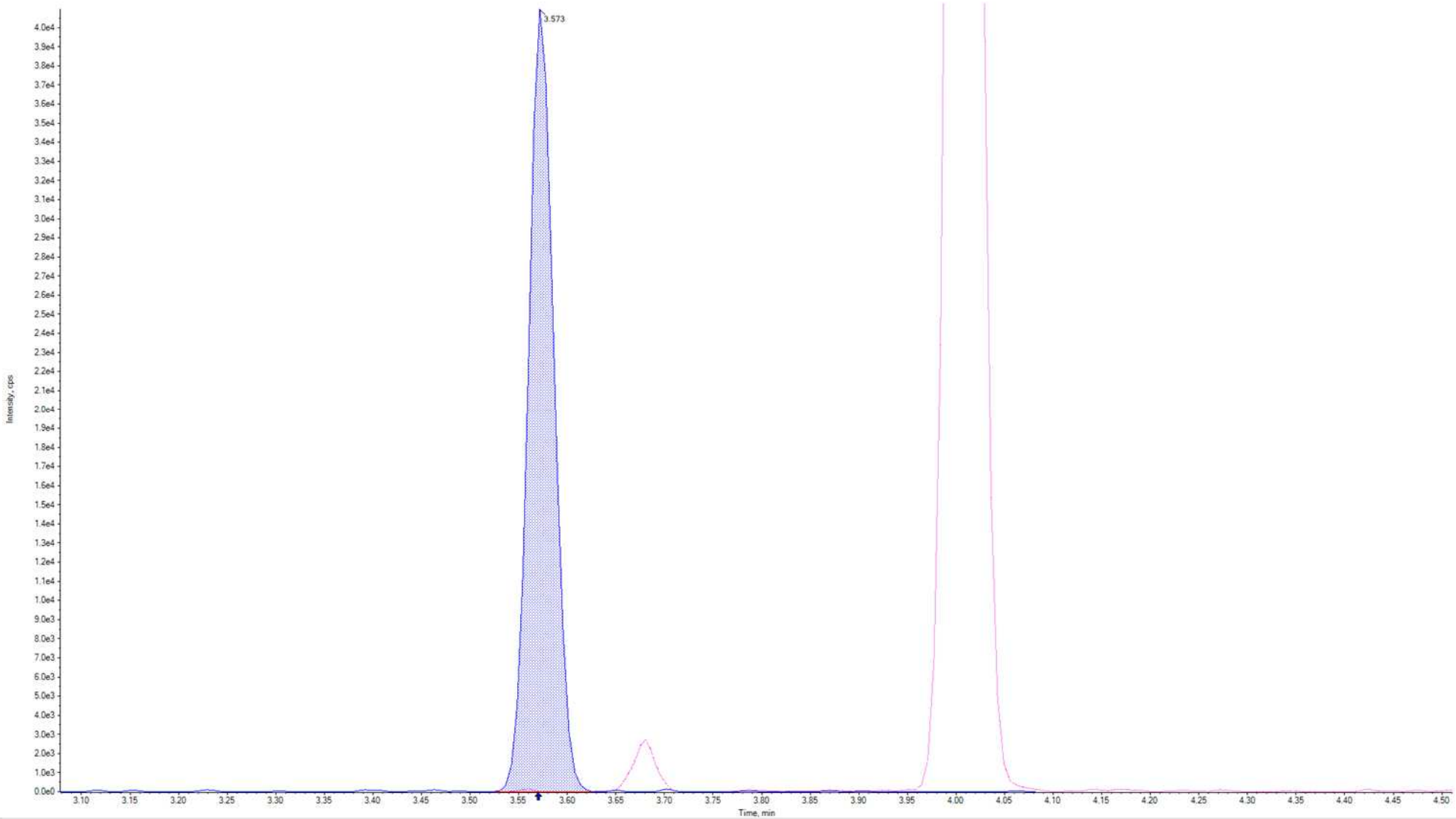
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PFHpS
Sample: WG2038443-4 S/N:2597.1 Points Across peak:24



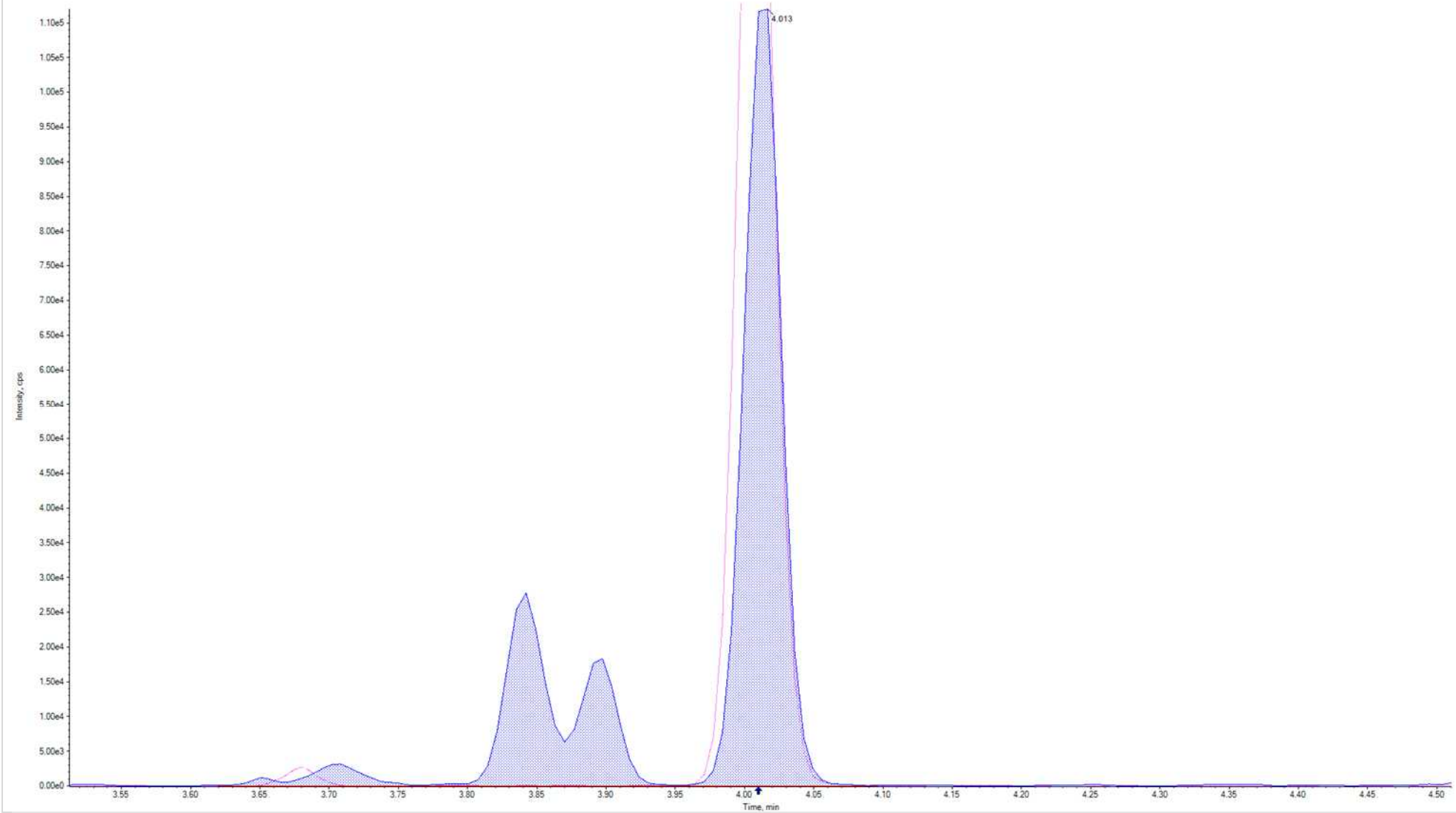
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Generated: 3/11/2025 12:26:59 PM

PFHpS_2
Sample: WG2038443-4 S/N:821.5 Points Across peak:22



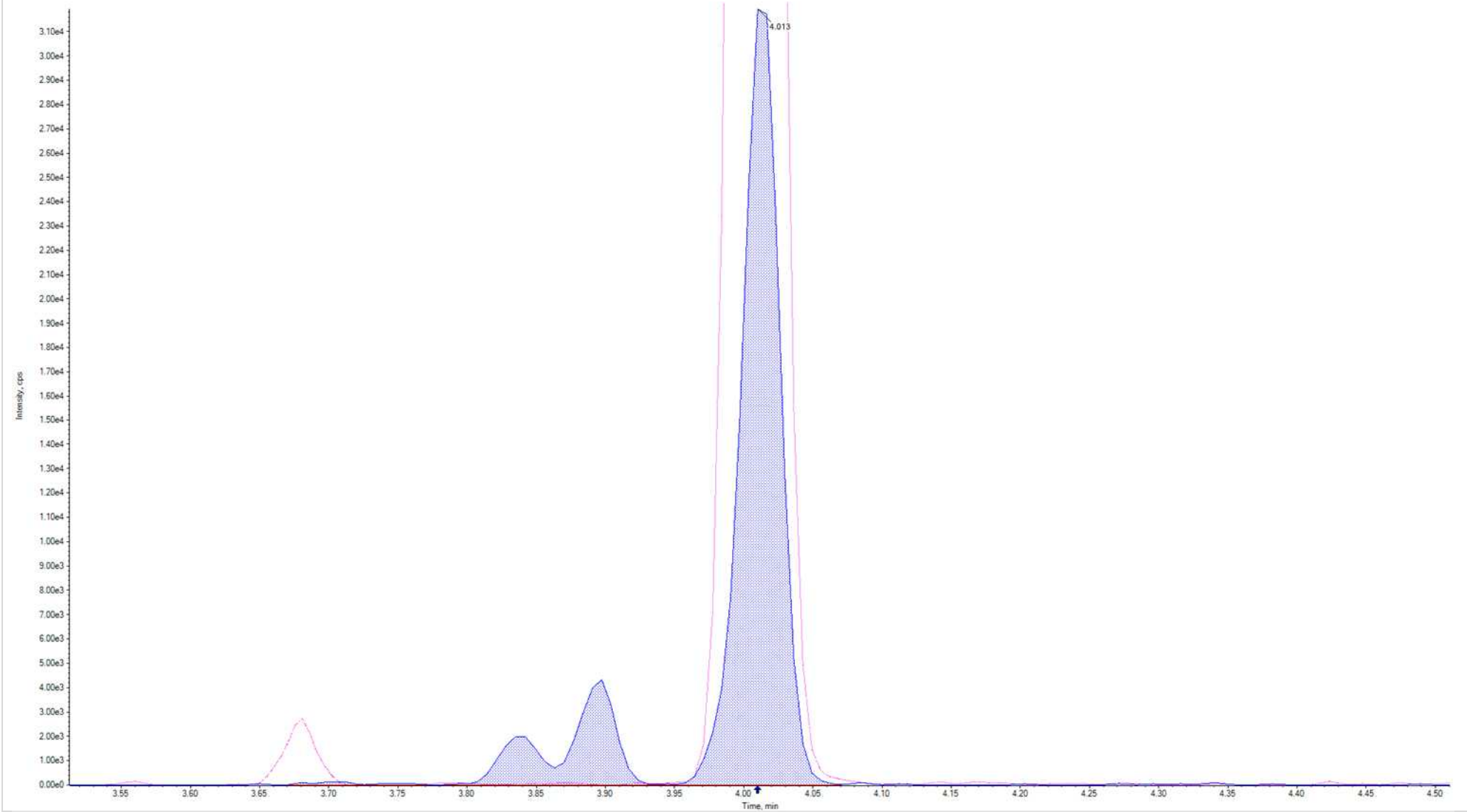
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Alpha Analytical LLC
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PFOS
Sample: WG2038443-4 S/N:327.3 Points Across peak:78



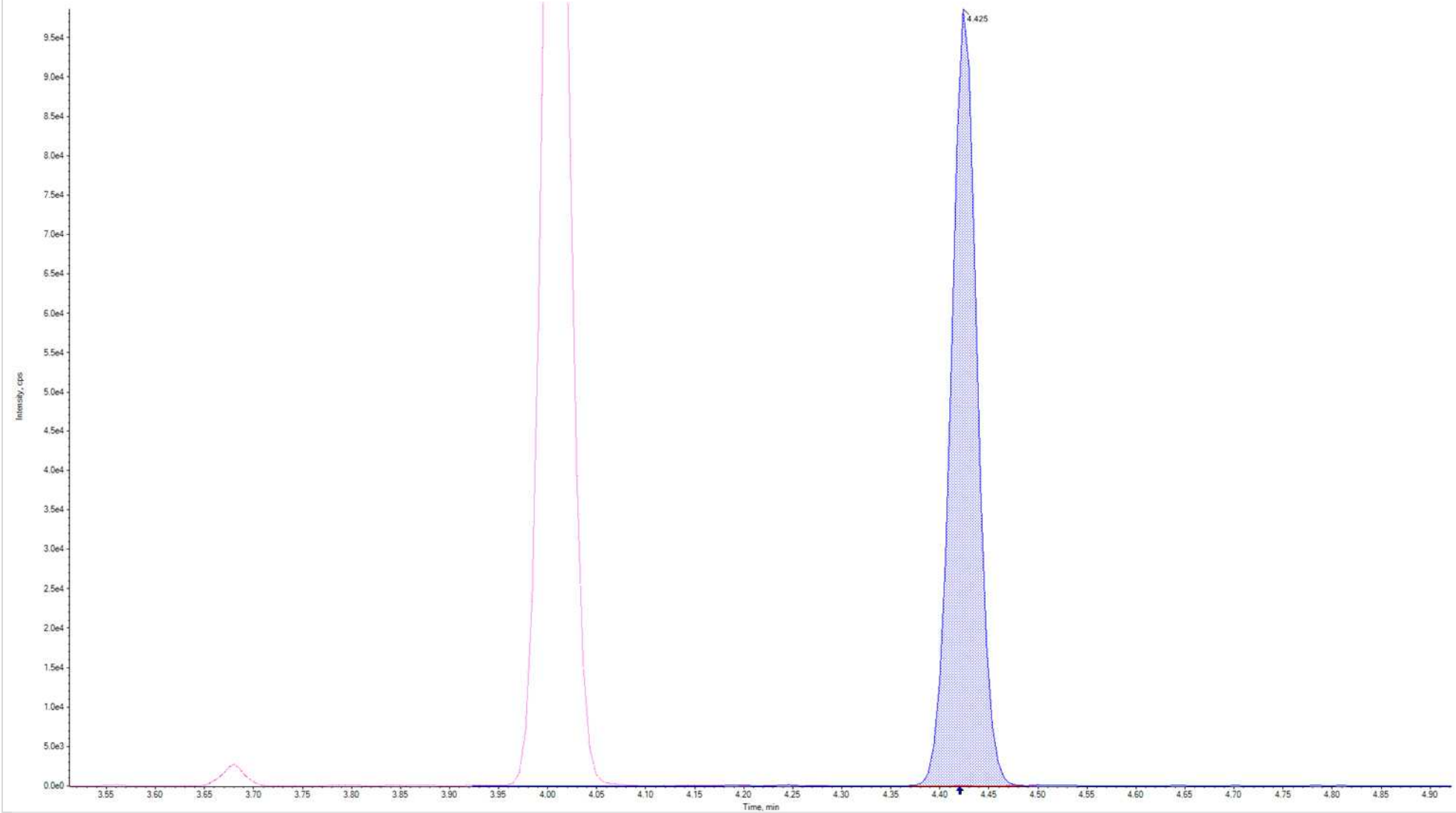
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PFOS_2
Sample: WG2038443-4 S/N:612.7 Points Across peak:65



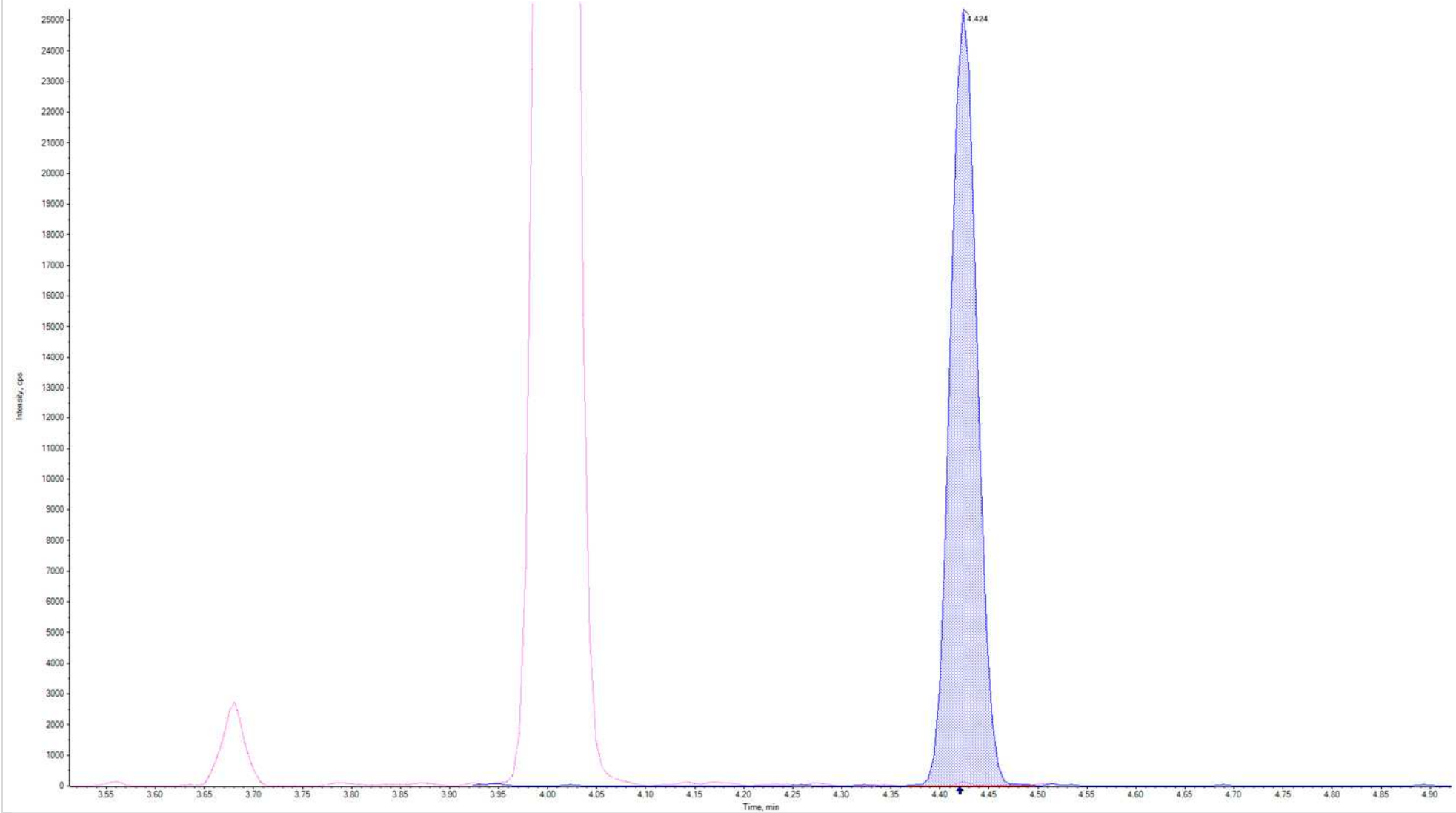
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Alpha Analytical LLC
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PFNS
Sample: WG2038443-4 S/N:2471.5 Points Across peak:25



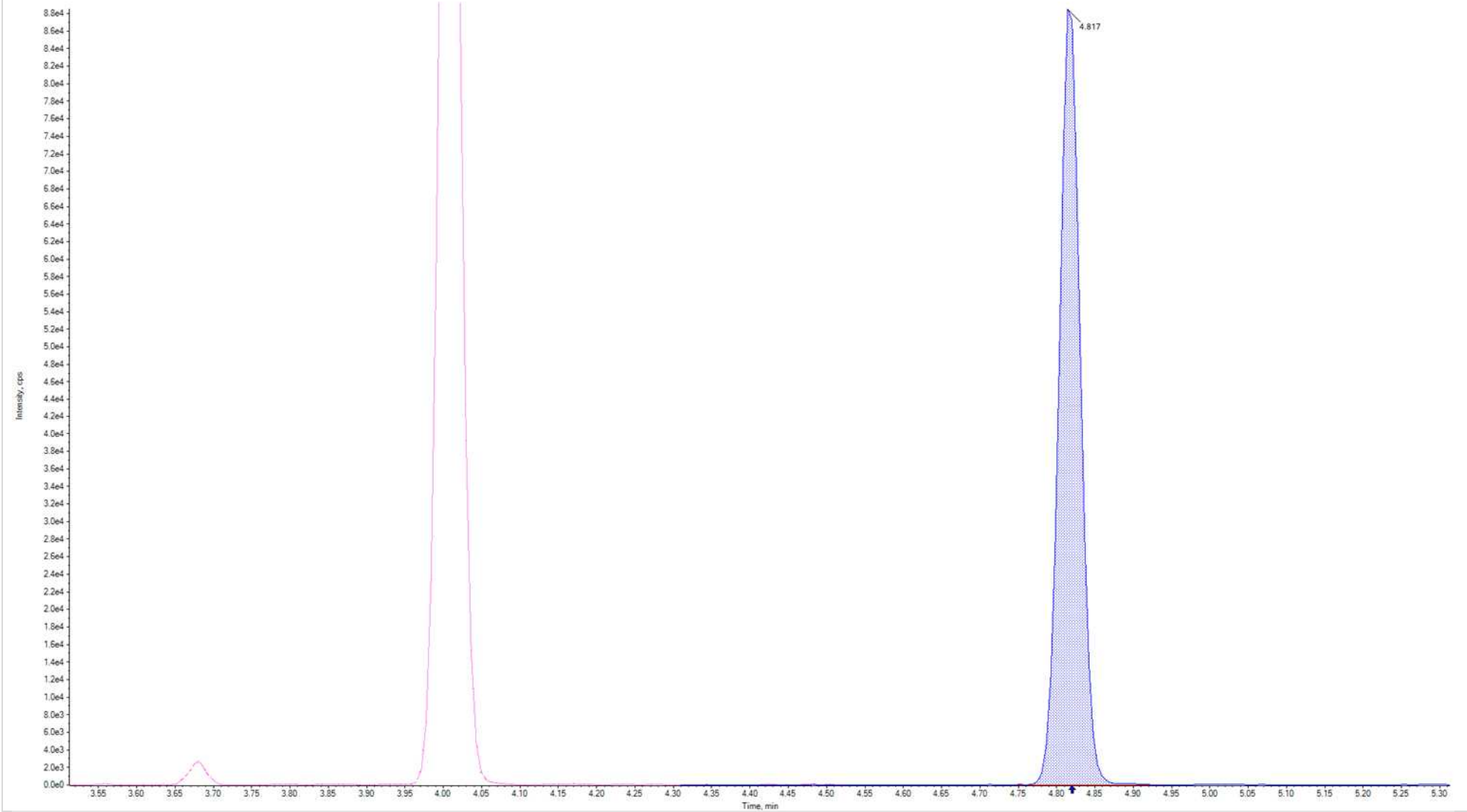
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Alpha Analytical LLC
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PFNS_2
Sample: WG2038443-4 S/N:635.8 Points Across peak:26



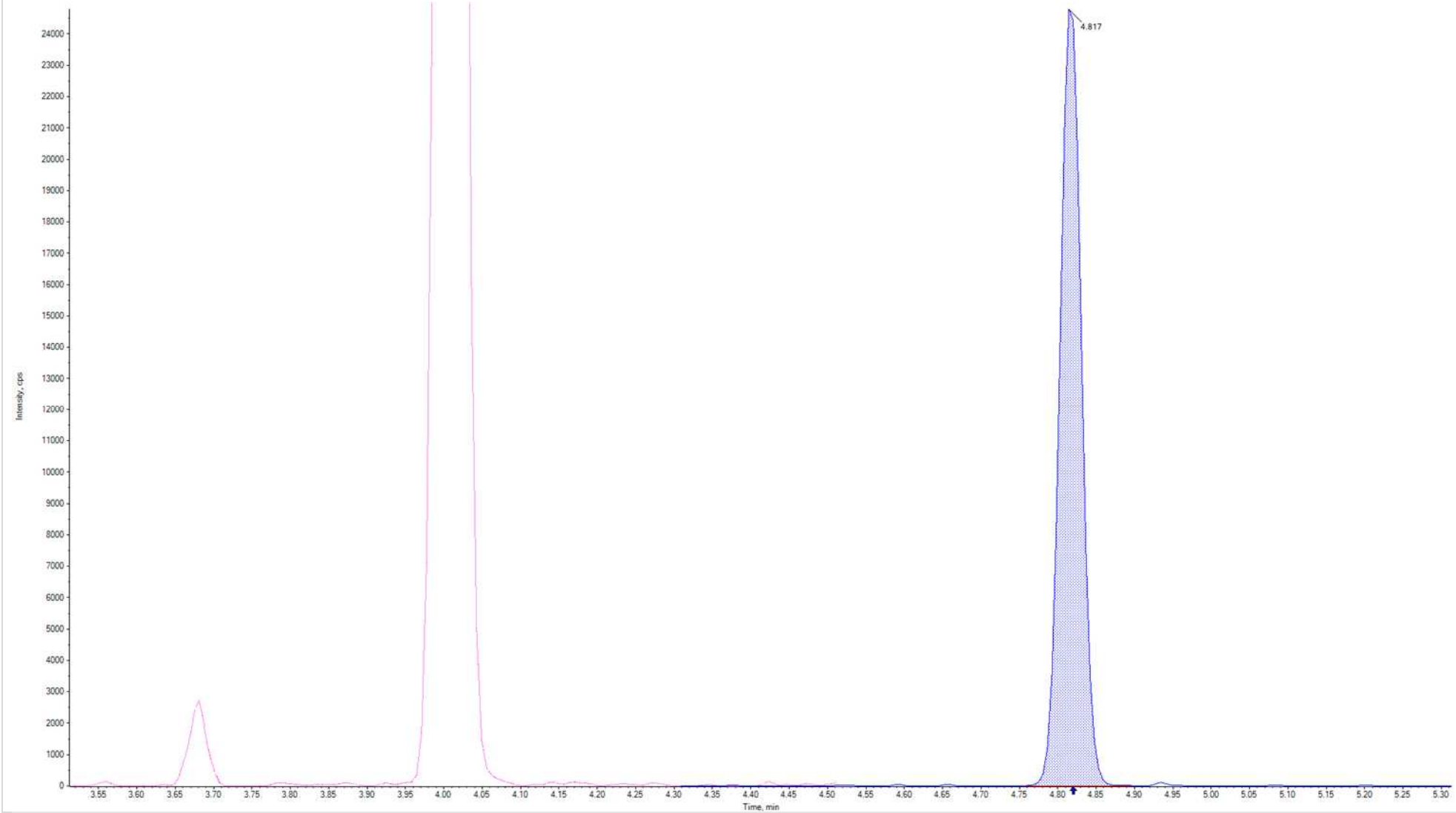
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Alpha Analytical LLC
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PFDS
Sample: WG2038443-4 S/N:3106.0 Points Across peak:34



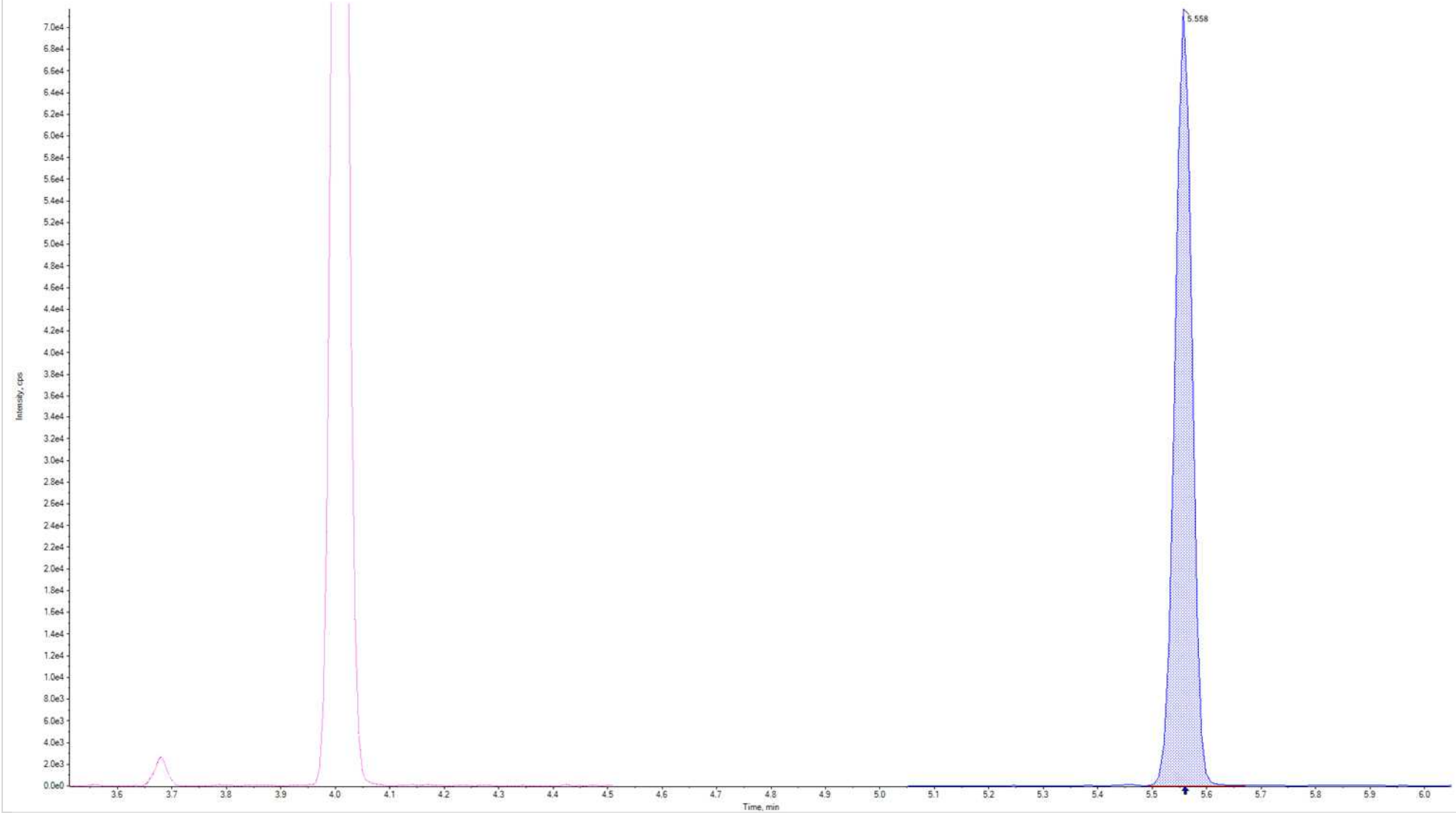
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Alpha Analytical LLC
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PFDS_2
Sample: WG2038443-4 S/N:870.0 Points Across peak:33



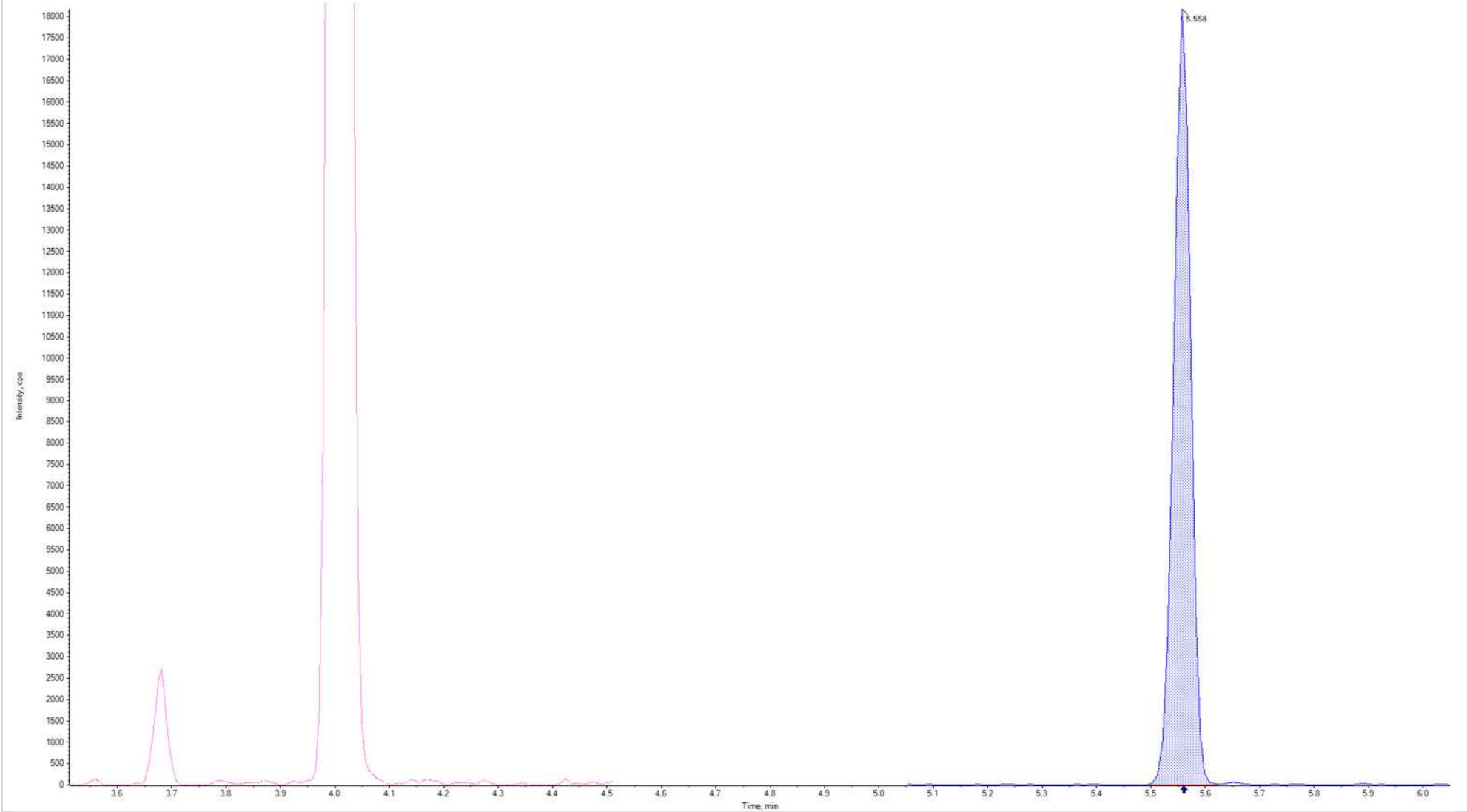
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Alpha Analytical LLC
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PFDoS
Sample: WG2038443-4 S/N:5570.1 Points Across peak:22



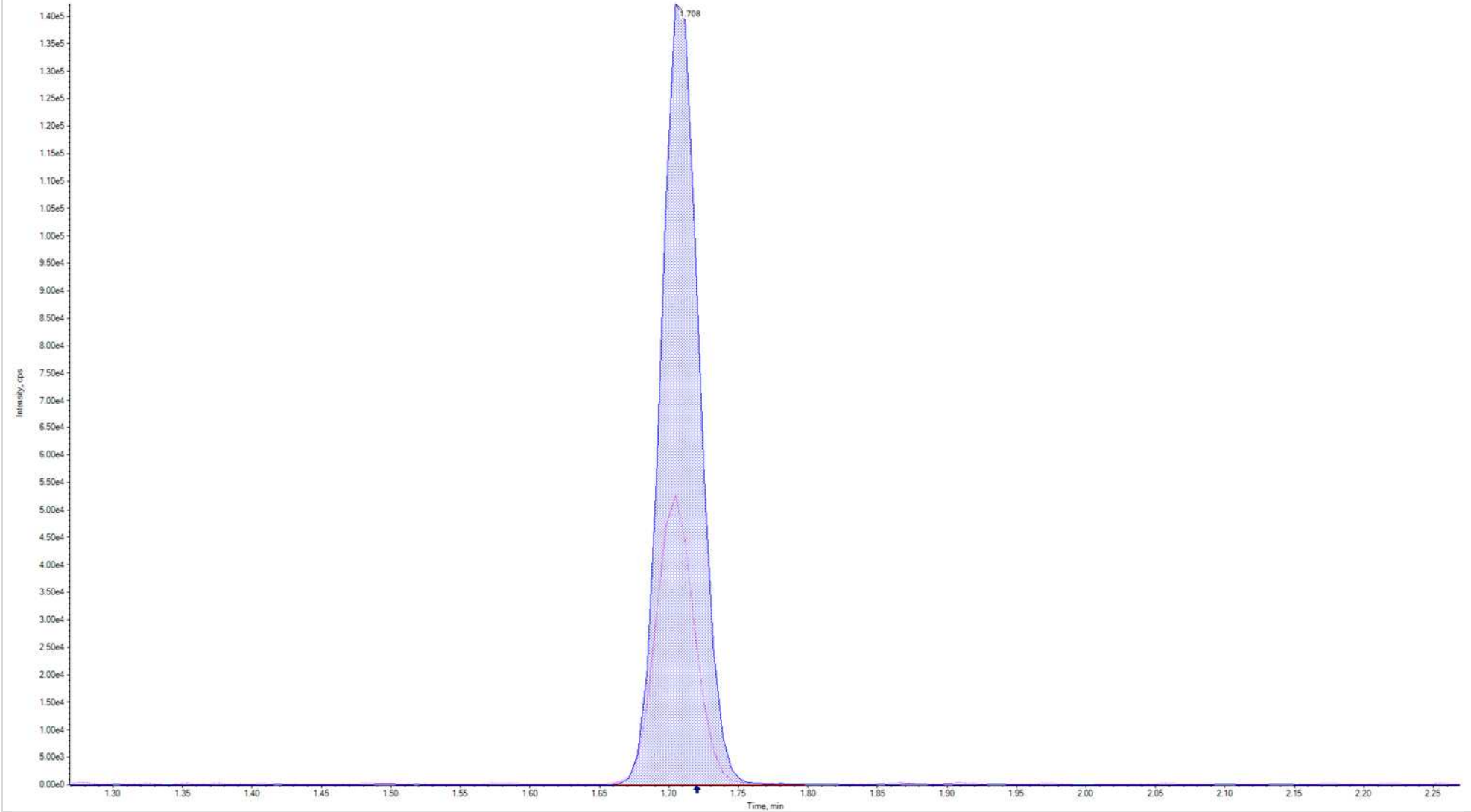
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Alpha Analytical LLC
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PFDoS_2
Sample: WG2038443-4 S/N:1412.3 Points Across peak:19



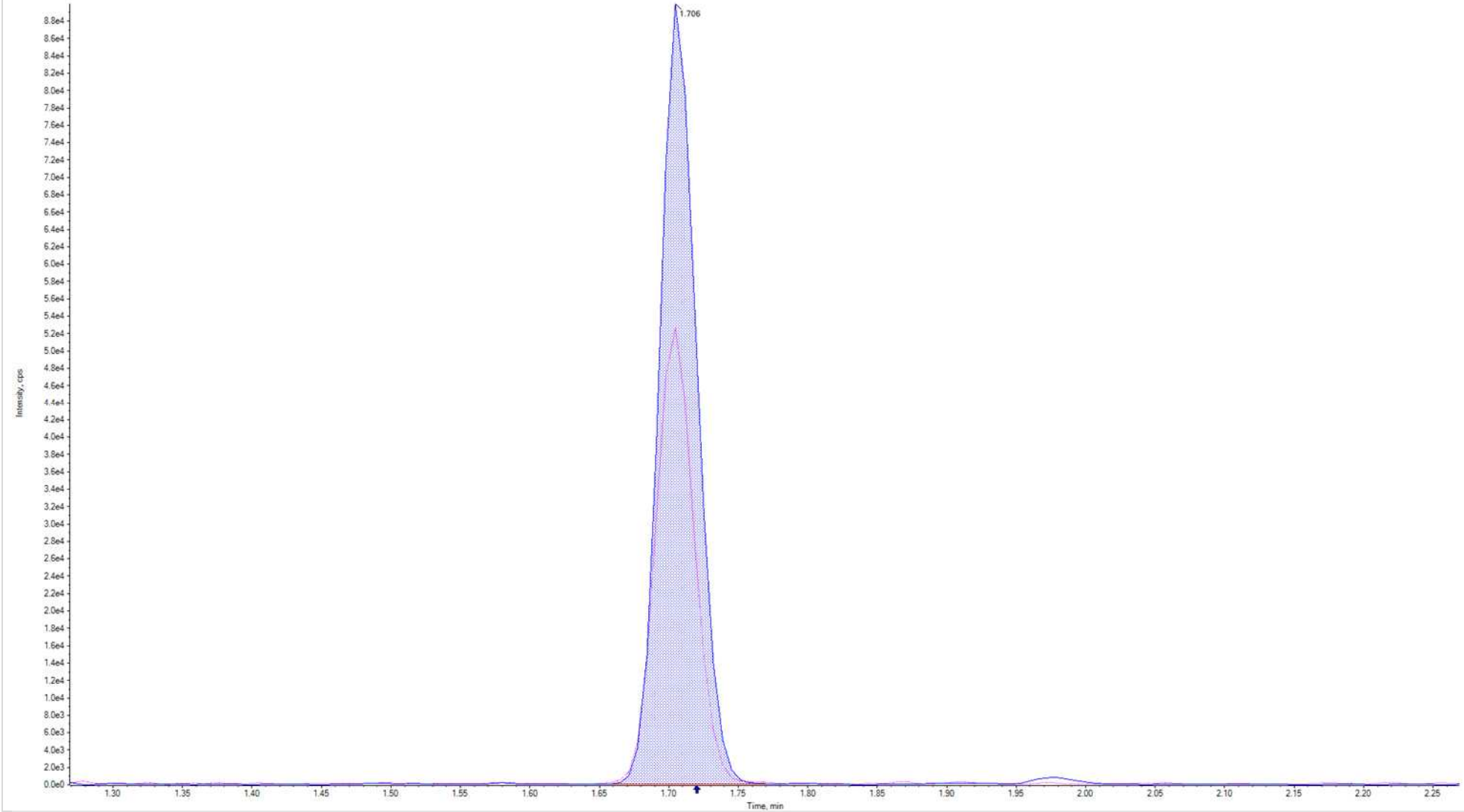
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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4:2FTS
Sample: WG2038443-4 S/N:3977.3 Points Across peak:24



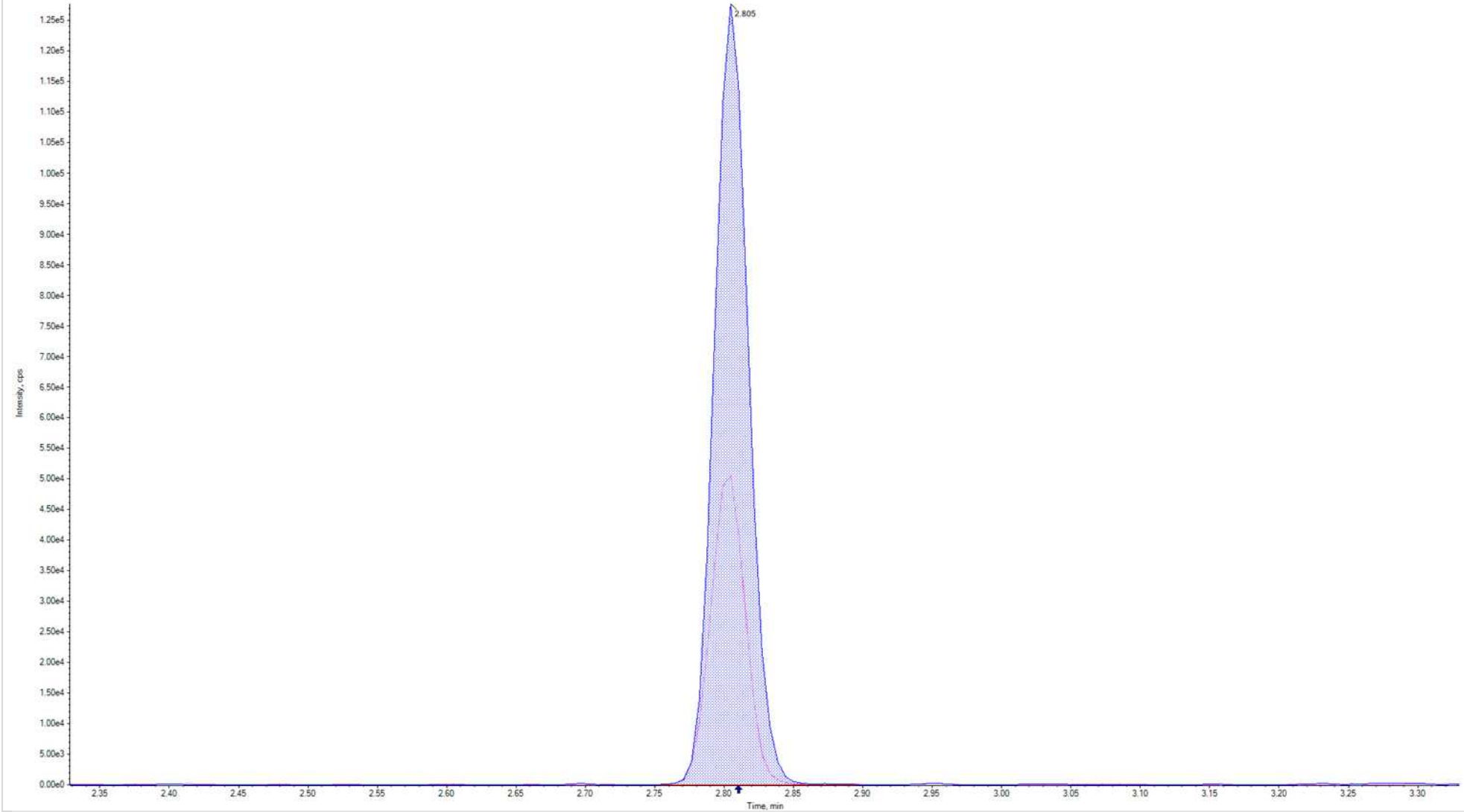
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_55.wiff2_14
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4:2FTS_2
Sample: WG2038443-4 S/N:3381.3 Points Across peak:22



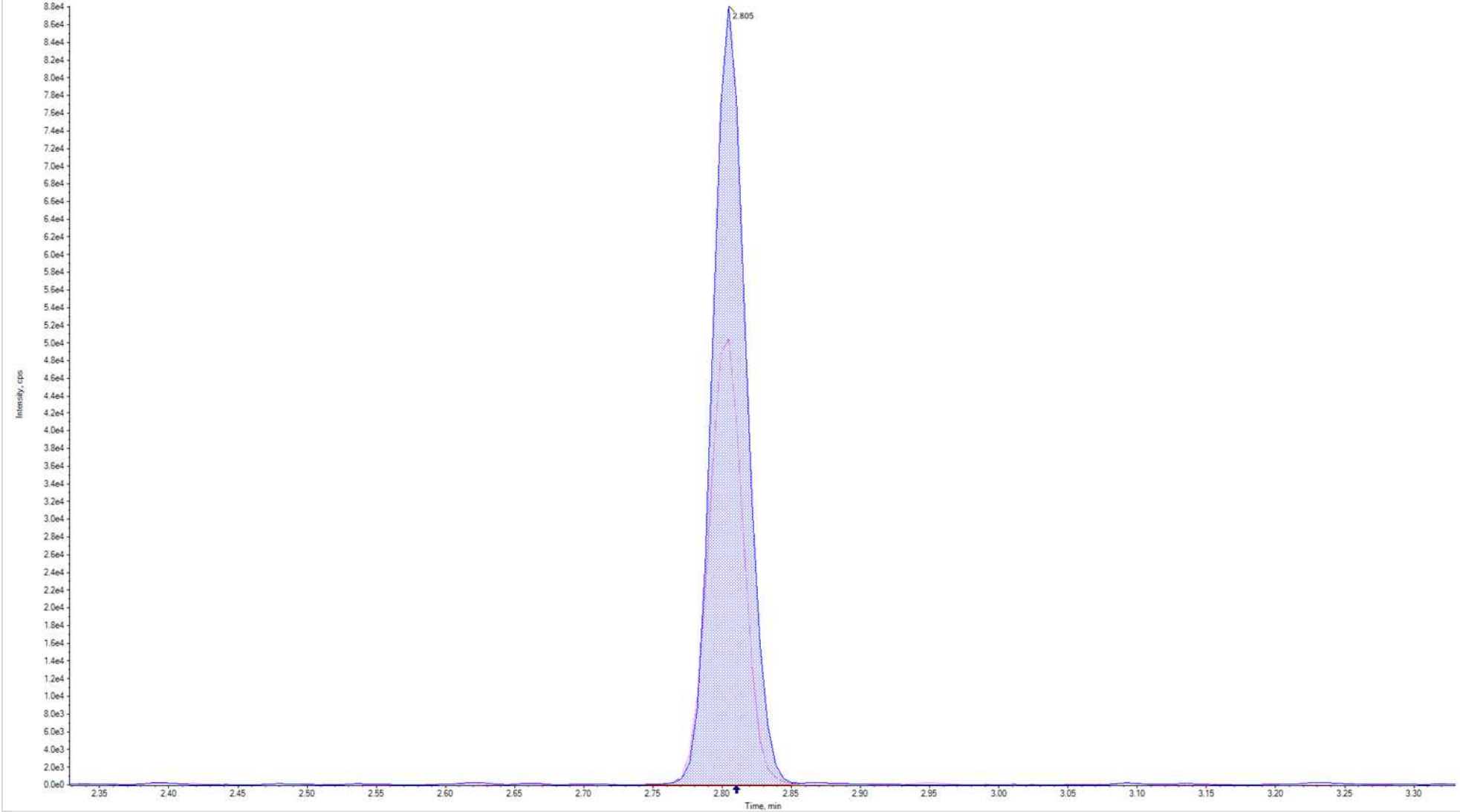
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

6:2FTS
Sample: WG2038443-4 S/N:2560.4 Points Across peak:32



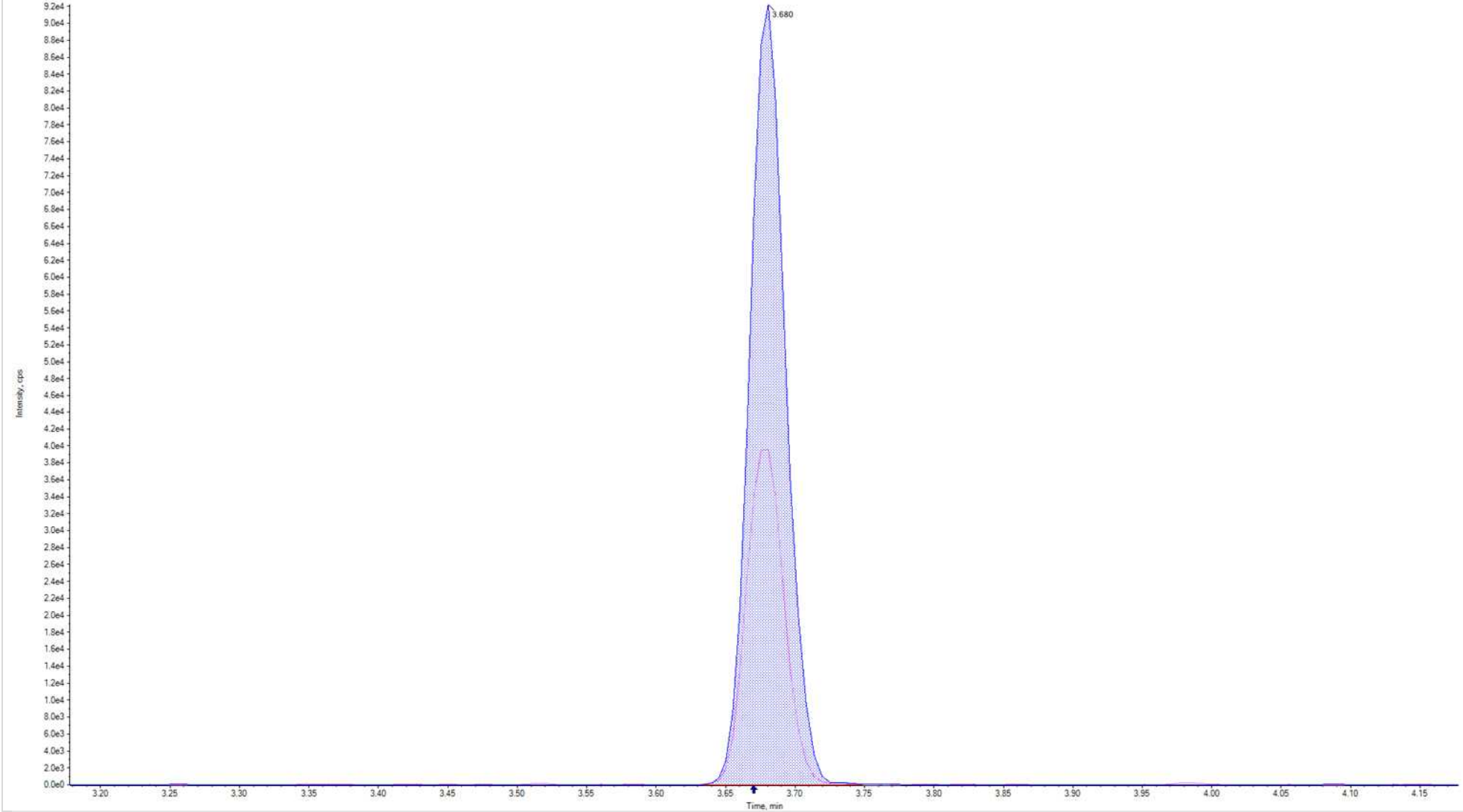
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

6:2FTS_2
Sample: WG2038443-4 S/N:1766.2 Points Across peak:22



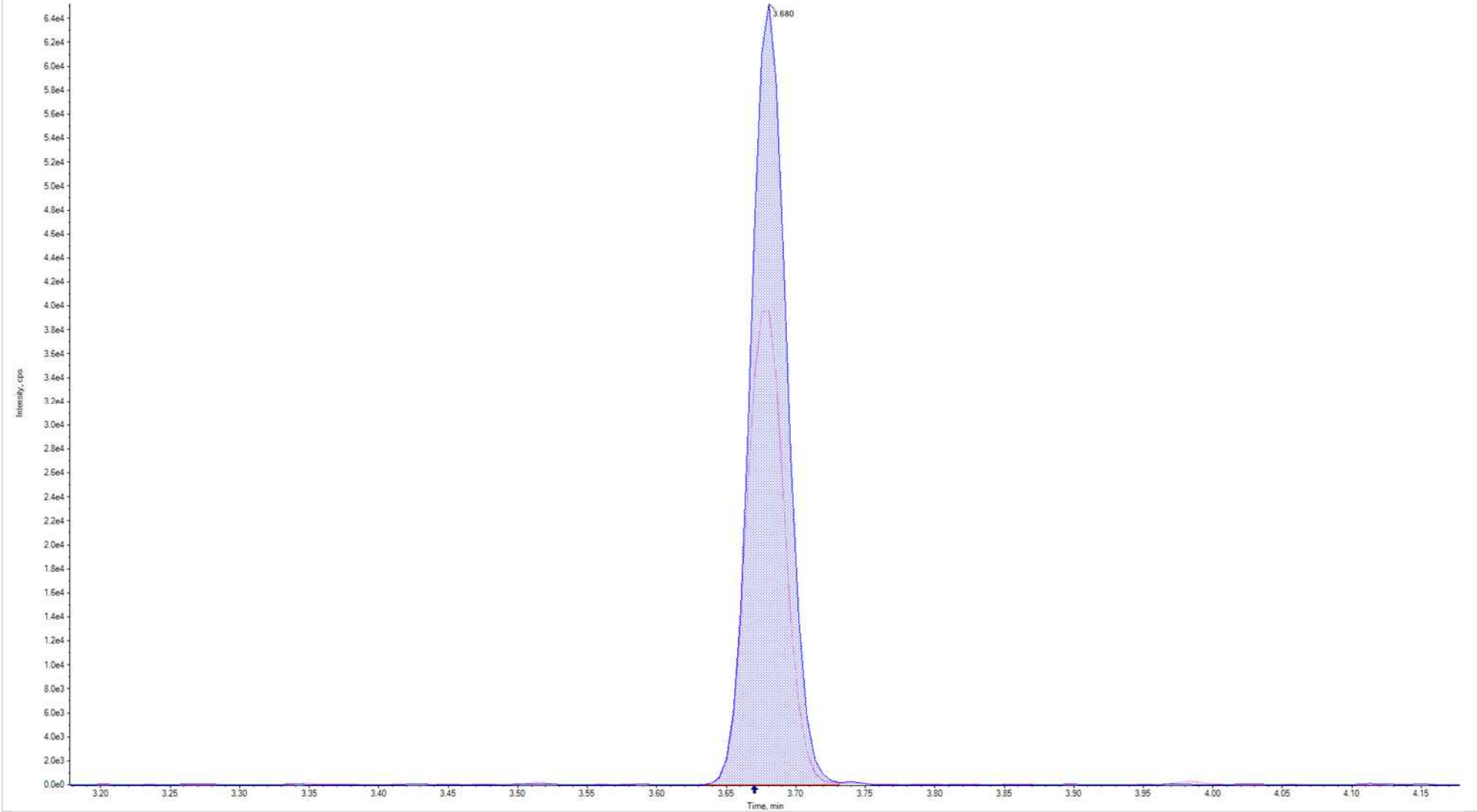
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_55.wiff2_14
Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

8:2FTS
Sample: WG2038443-4 S/N:1849.0 Points Across peak:27



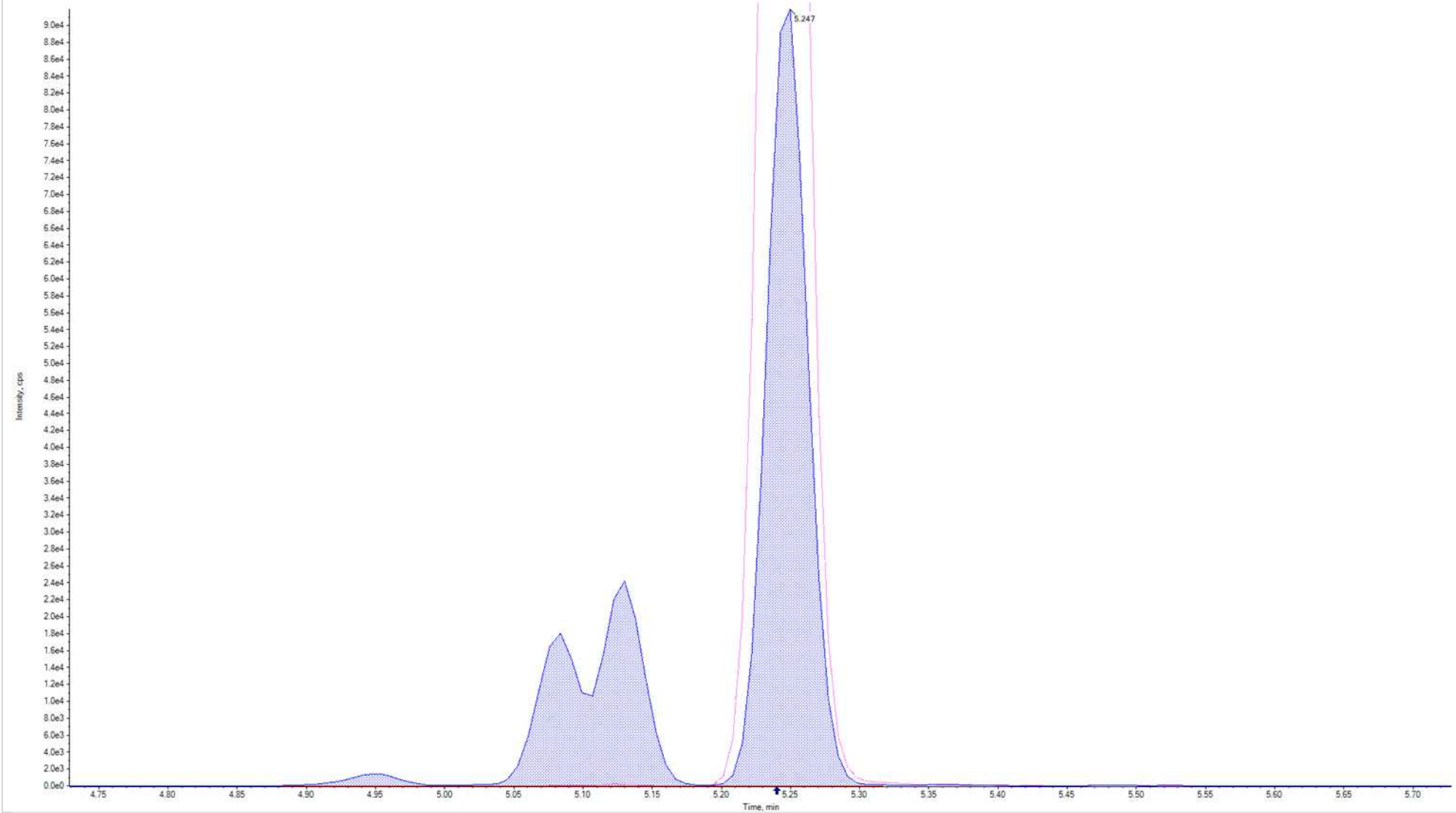
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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8:2FTS_2
Sample: WG2038443-4 S/N:1307.5 Points Across peak:22



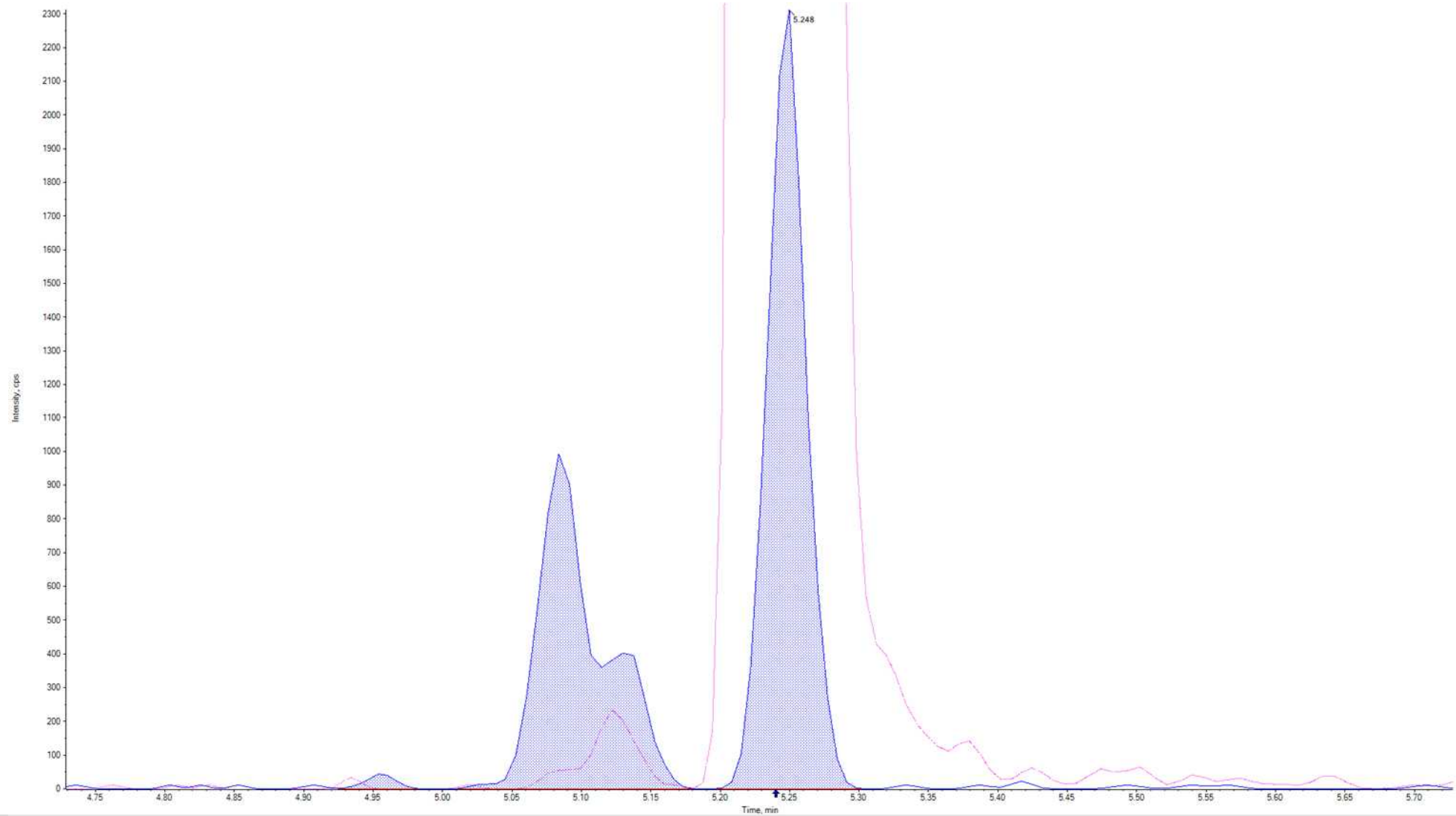
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

PFOSA
Sample: WG2038443-4 S/N:381.0 Points Across peak:65



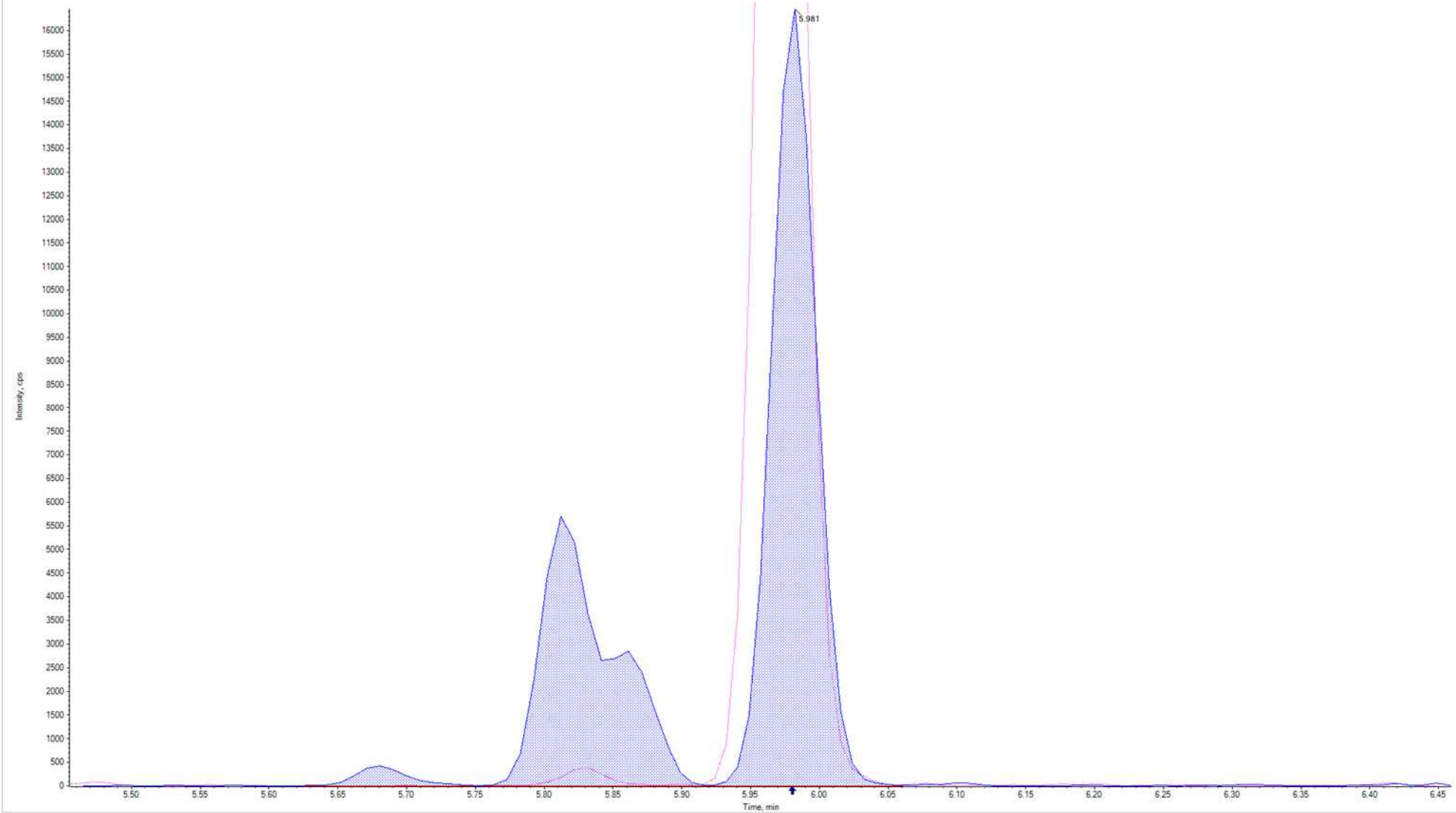
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFOSA_2
Sample: WG2038443-4 S/N:202.8 Points Across peak:56



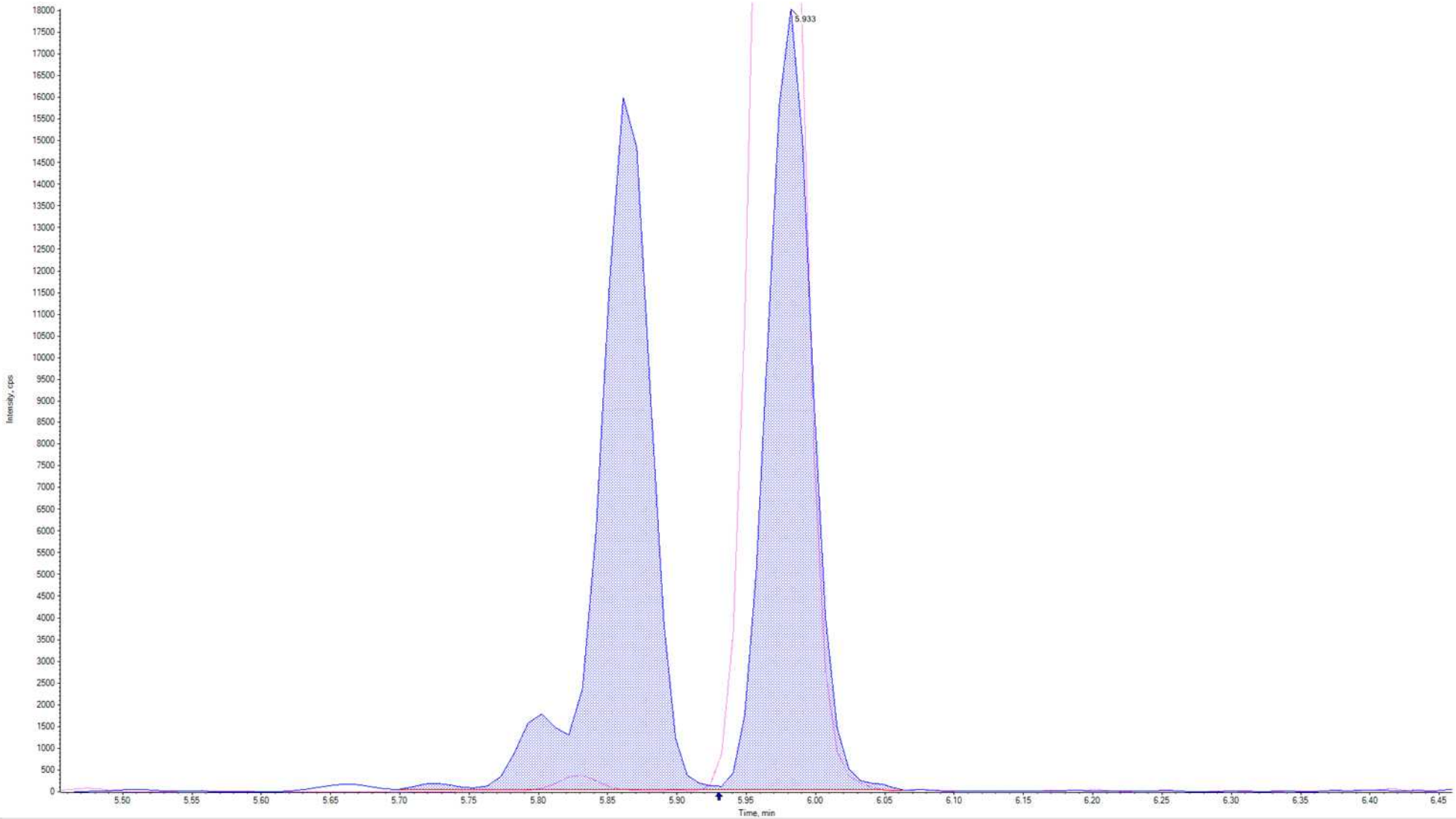
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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NMeFOSA
Sample: WG2038443-4 S/N:293.9 Points Across peak:51



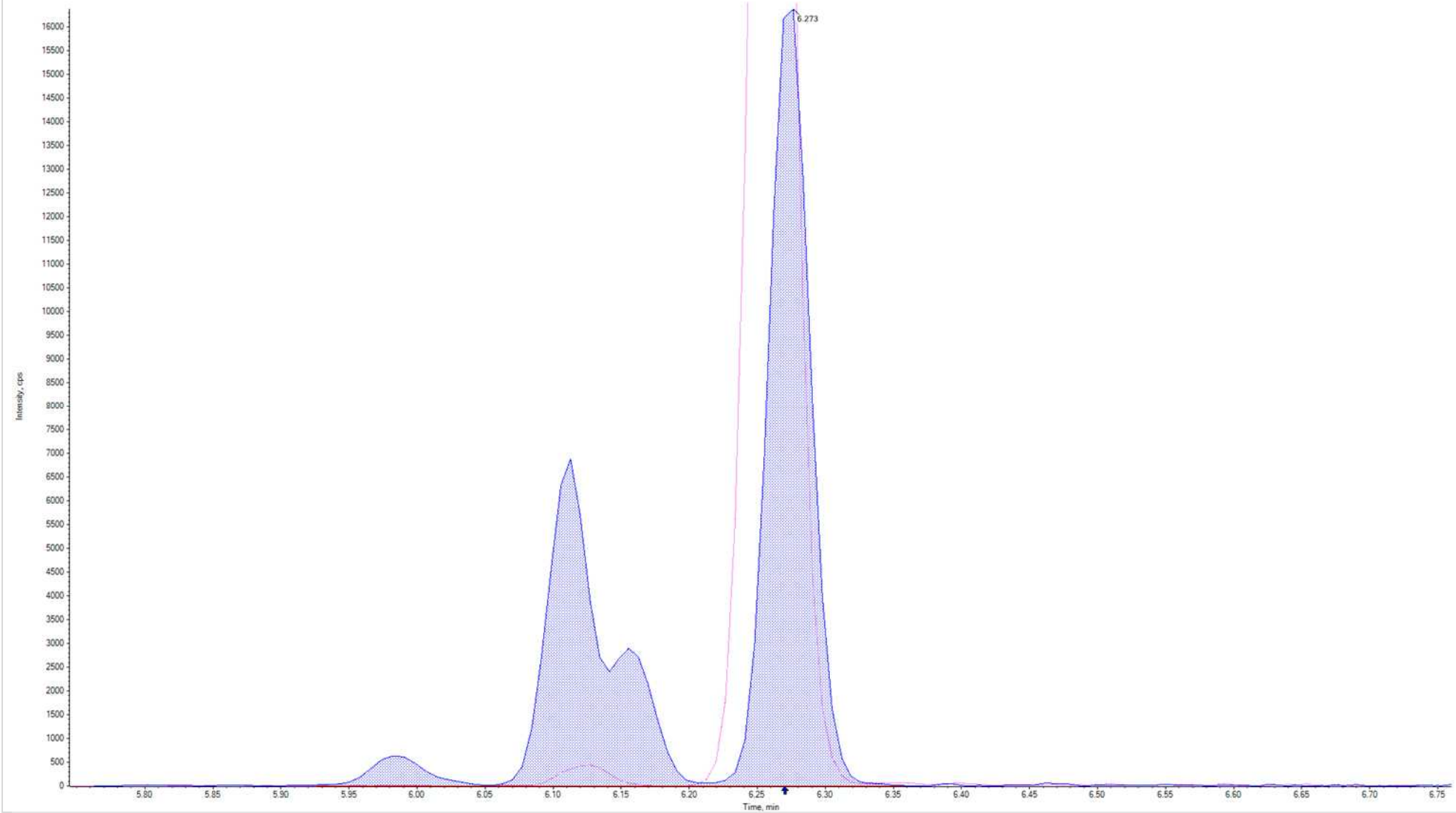
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

NMeFOSA_2
Sample: WG2038443-4 S/N:203.3 Points Across peak:42



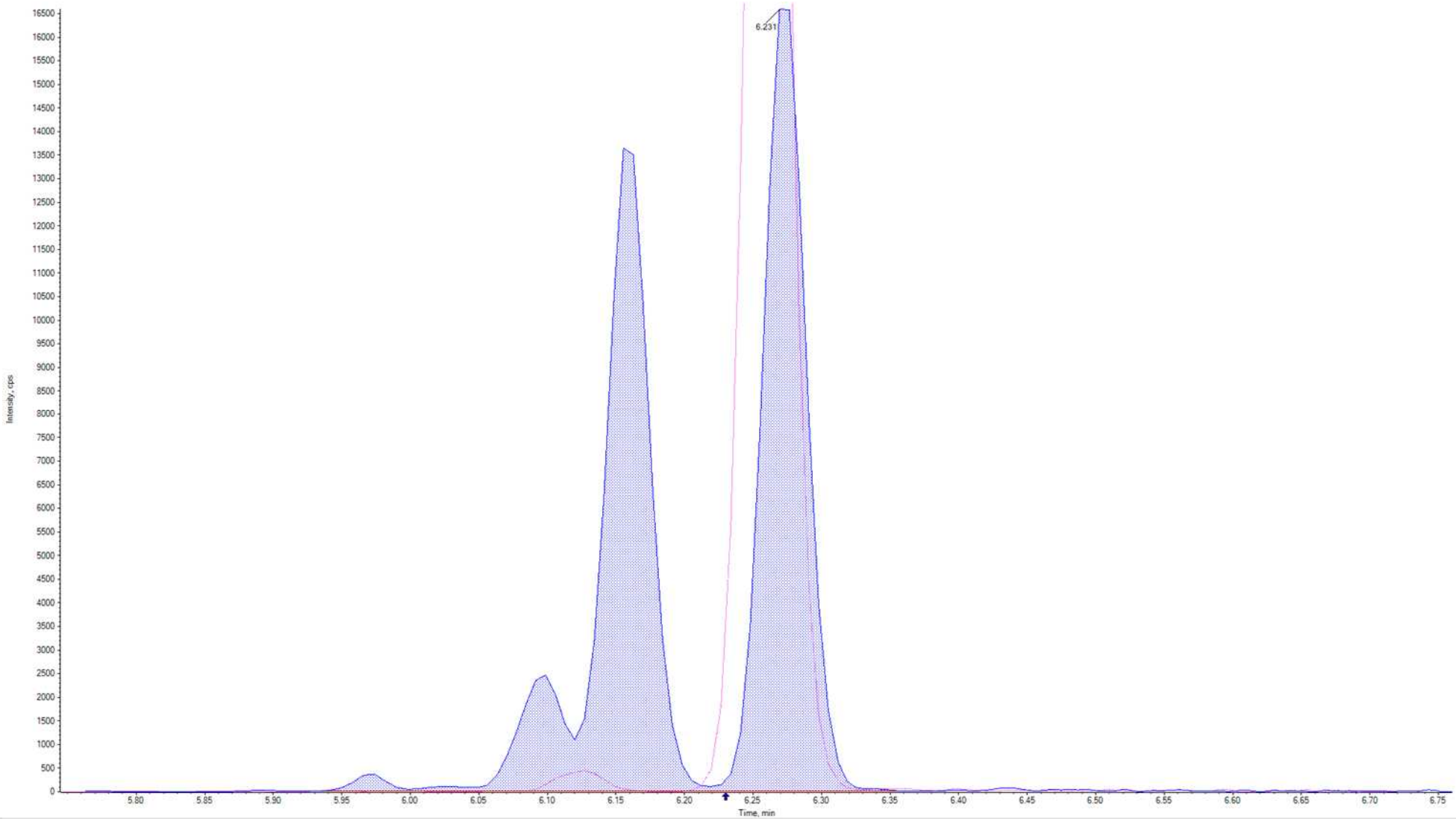
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

NEtFOSA
Sample: WG2038443-4 S/N:565.5 Points Across peak:61



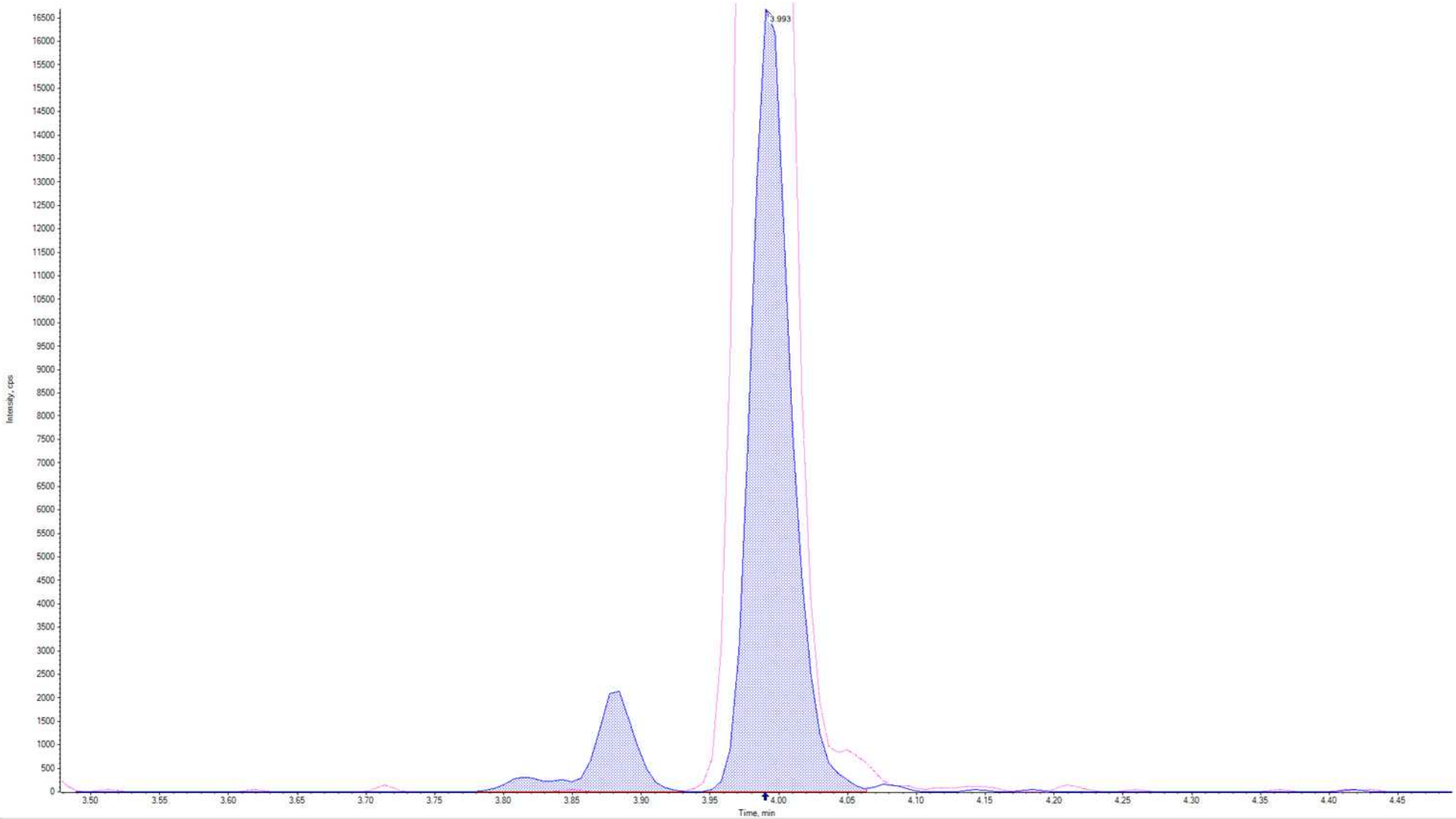
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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NEtFOSA_2
Sample: WG2038443-4 S/N:462.1 Points Across peak:60



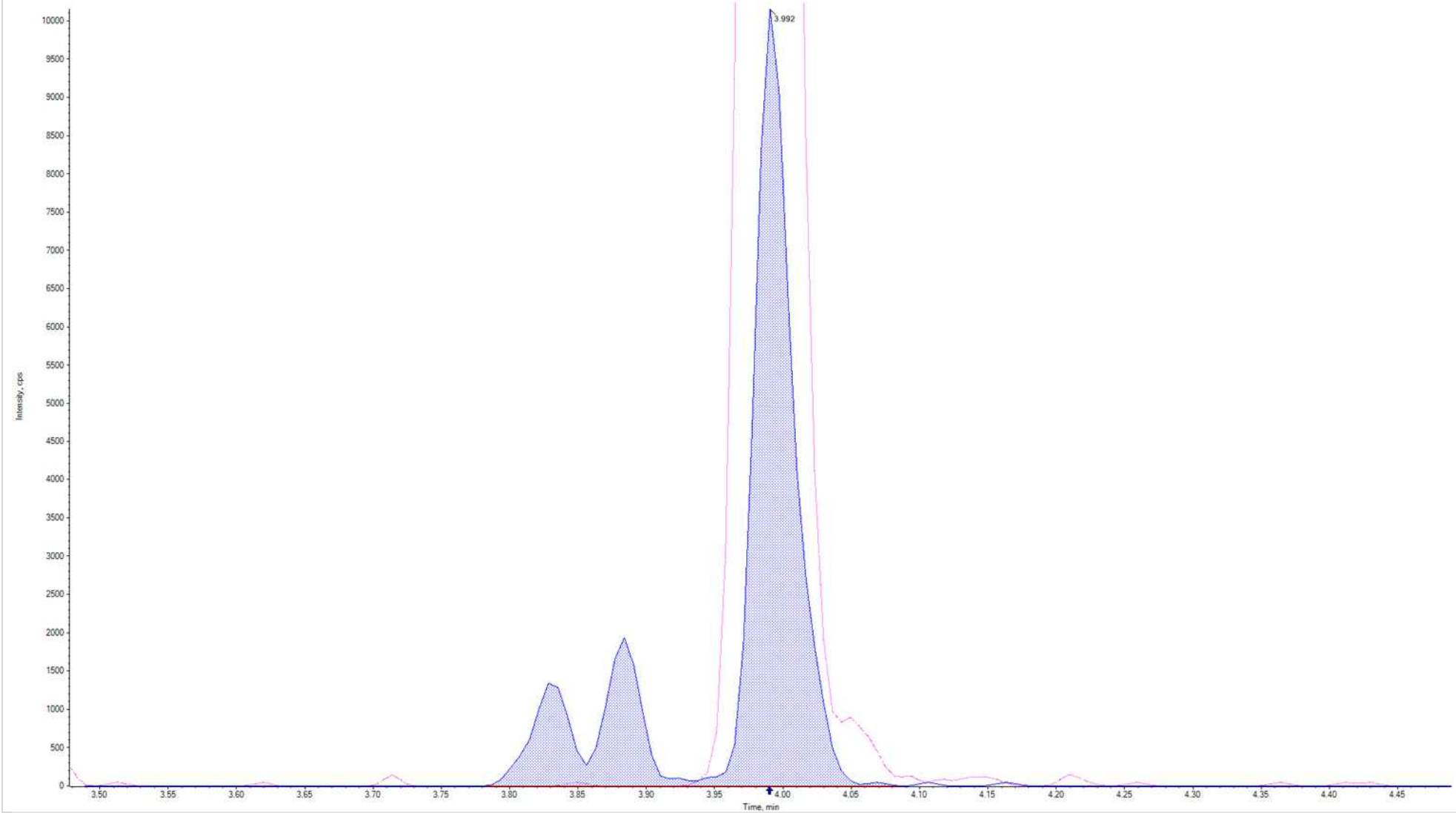
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_55.wiff2_14
Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

NMeFOSAA
Sample: WG2038443-4 S/N:334.6 Points Across peak:45



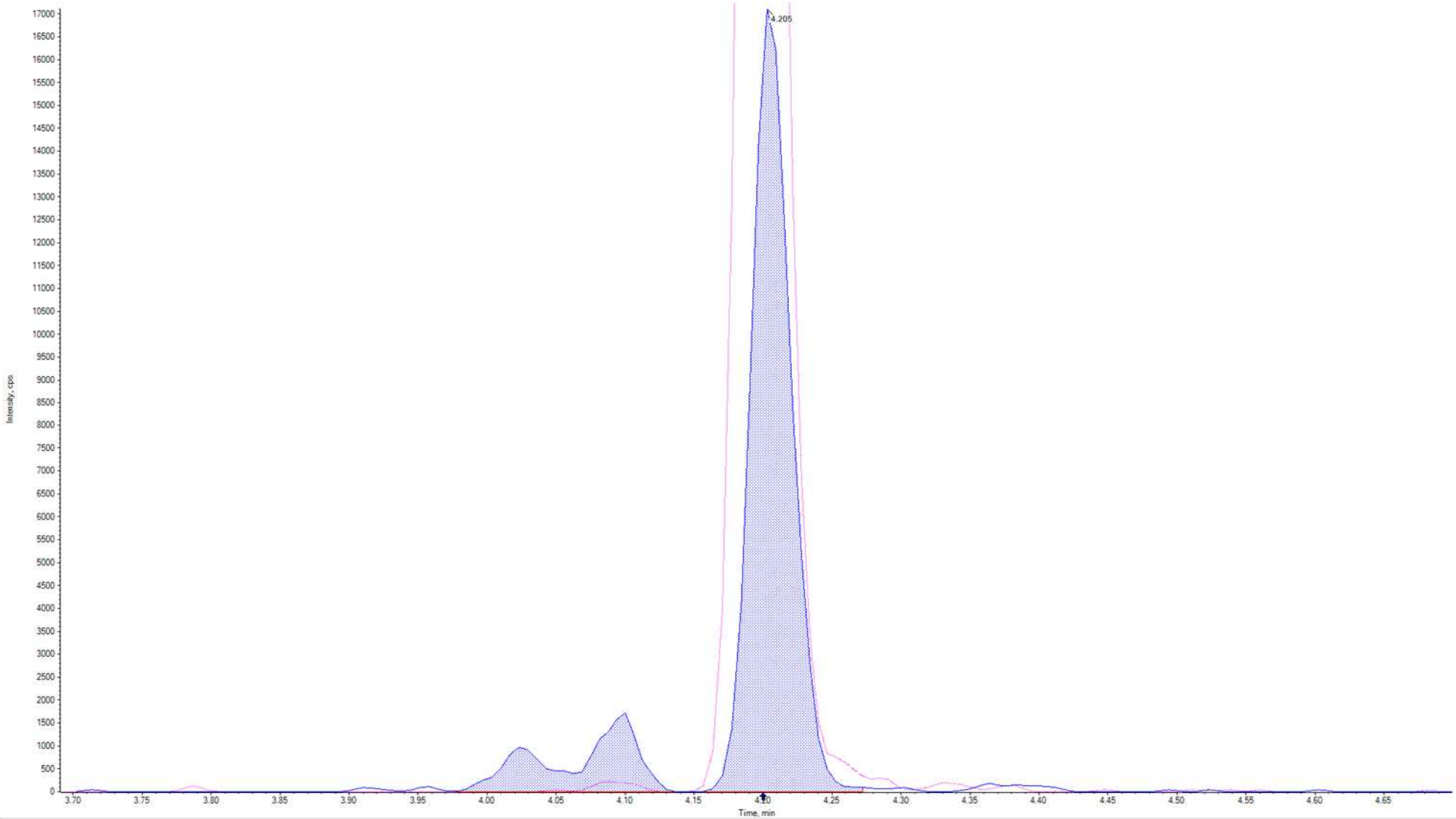
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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NMeFOSAA_2
Sample: WG2038443-4 S/N:203.6 Points Across peak:49



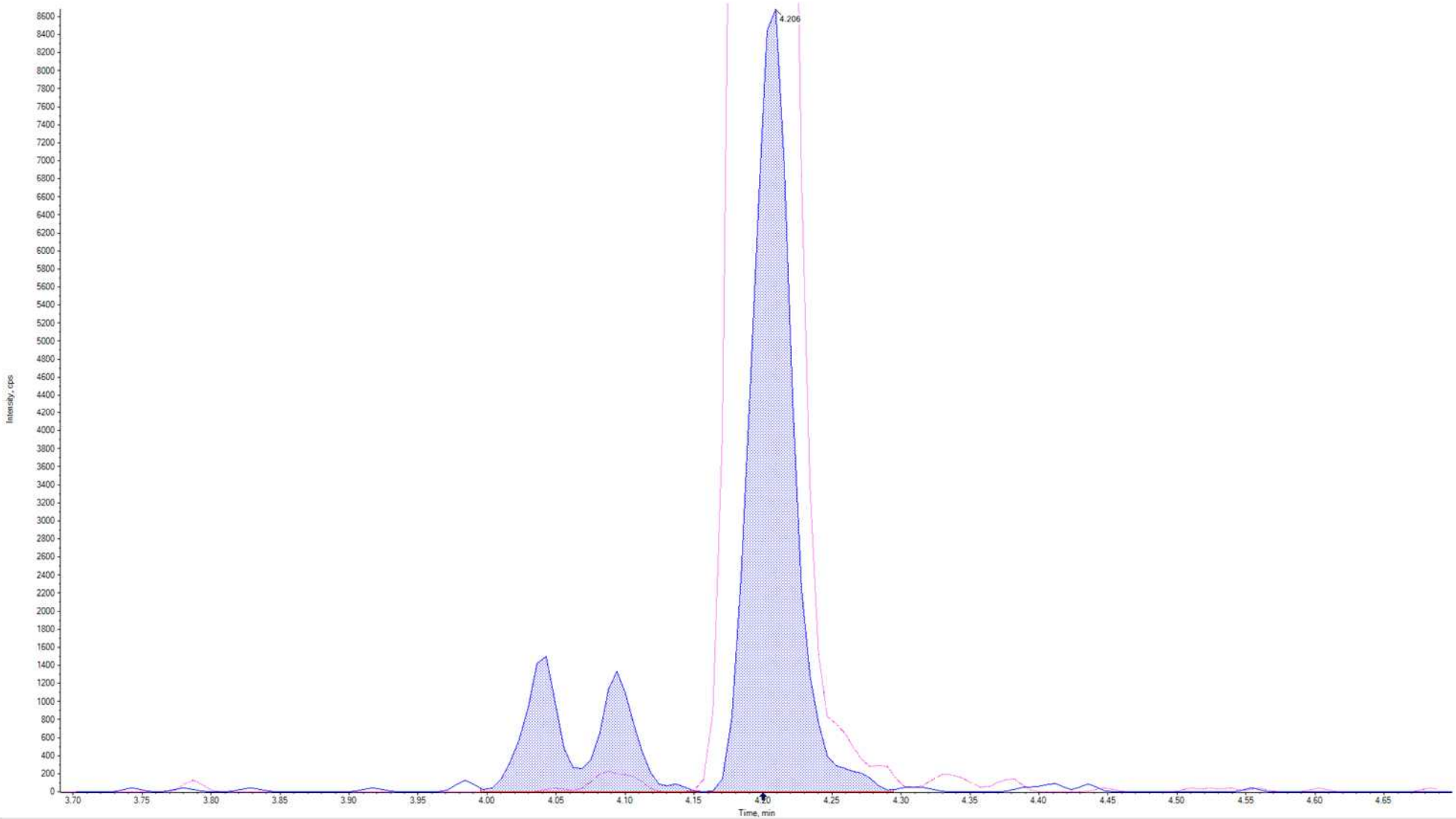
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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NEtFOSAA
Sample: WG2038443-4 S/N:366.6 Points Across peak:49



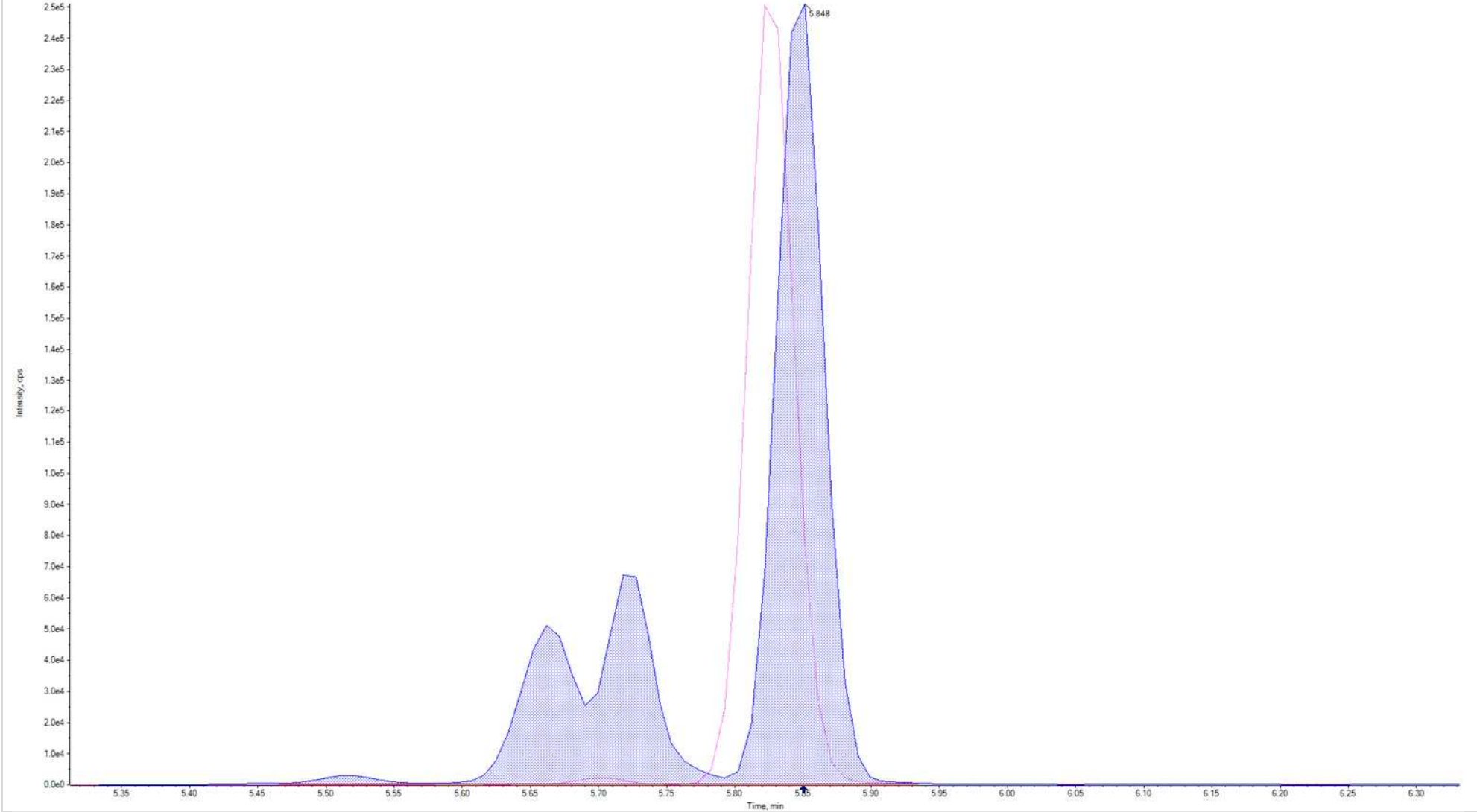
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NEtFOSAA_2
Sample: WG2038443-4 S/N:195.9 Points Across peak:49



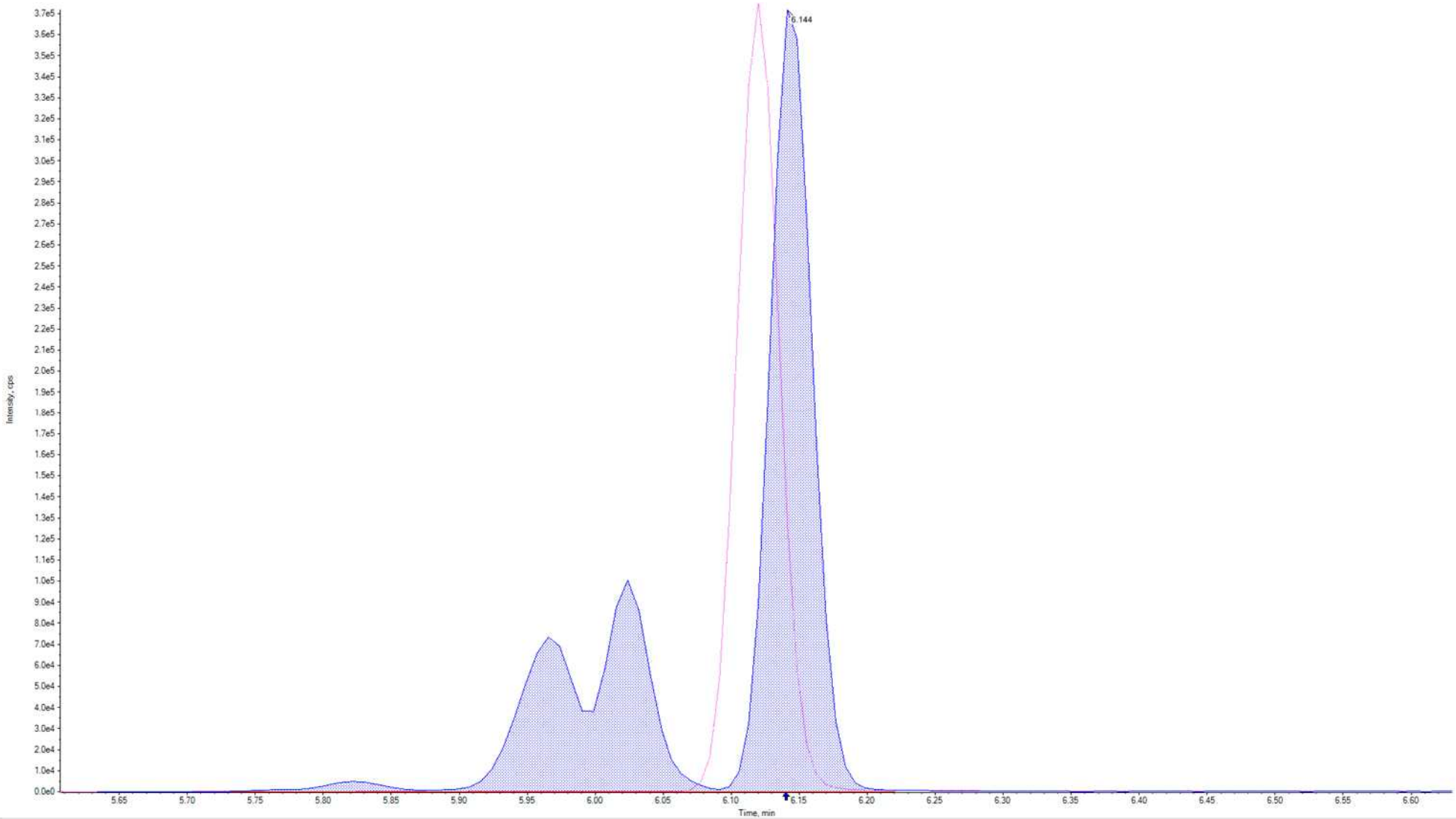
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

NMeFOSE
Sample: WG2038443-4 S/N:233.3 Points Across peak:53



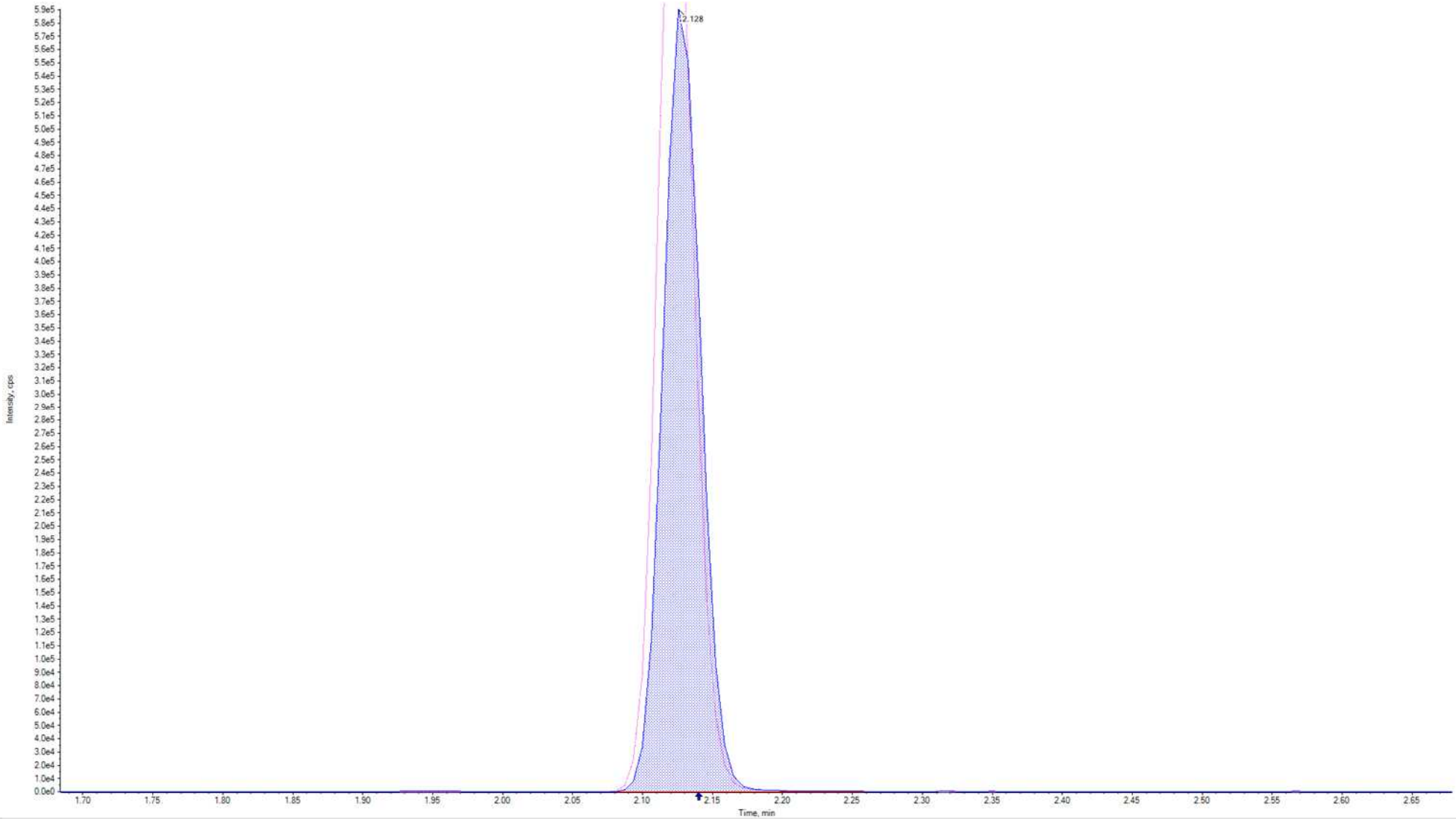
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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NEtFOSE
Sample: WG2038443-4 S/N:455.9 Points Across peak:62



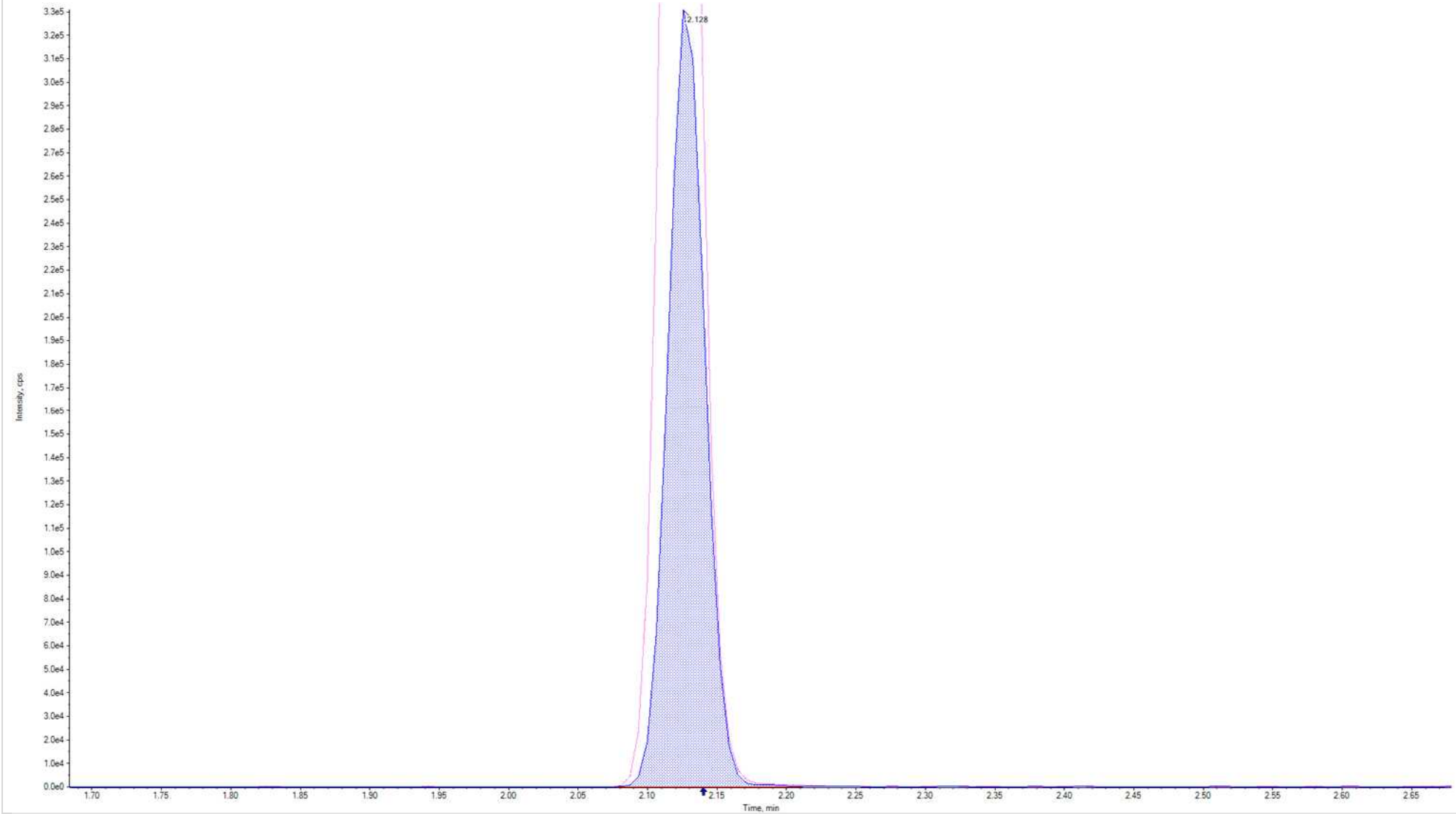
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Alpha Analytical LLC
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HFPO-DA
Sample: WG2038443-4 S/N:3735.2 Points Across peak:32



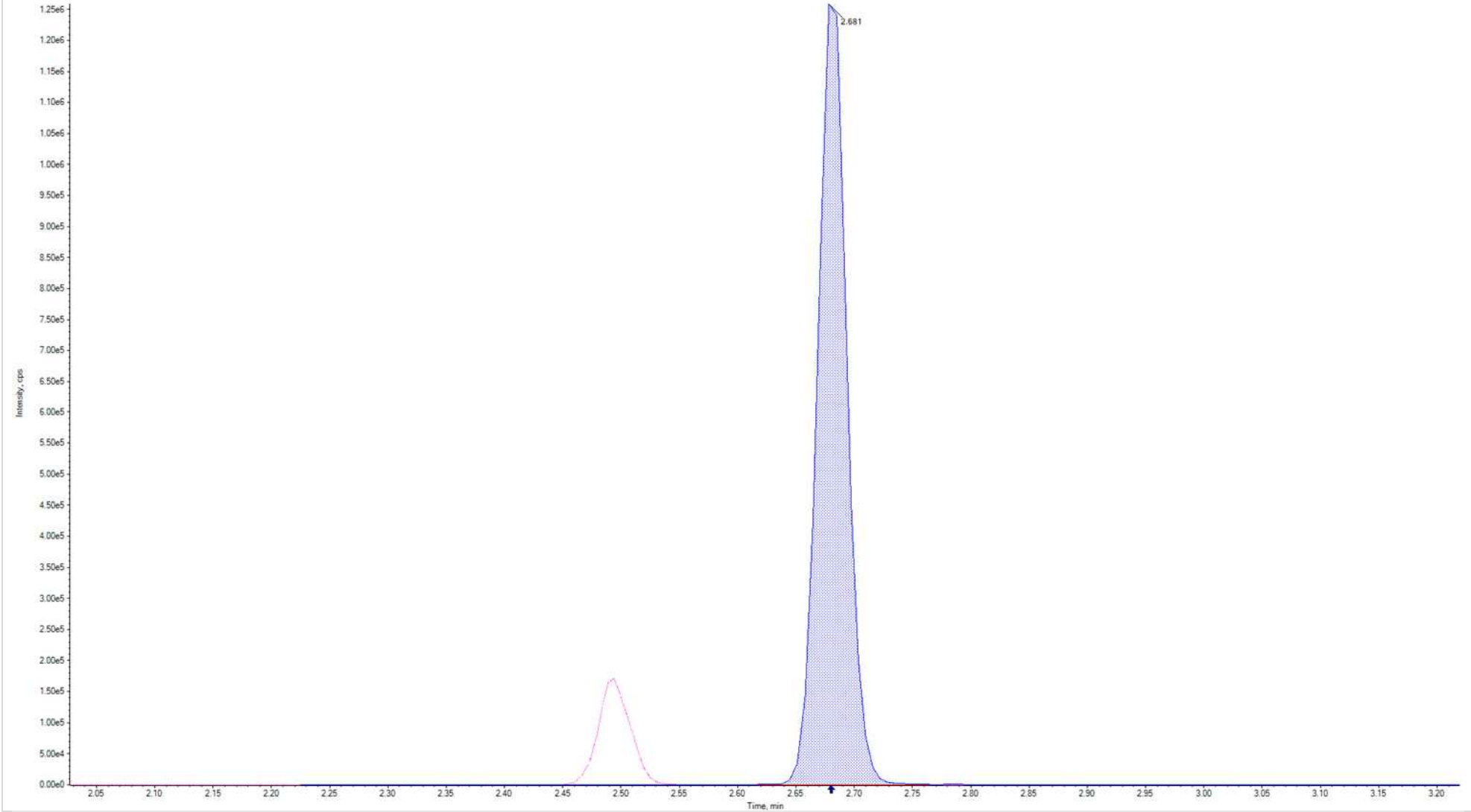
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

HFPO-DA_2
Sample: WG2038443-4 S/N:7462.7 Points Across peak:23



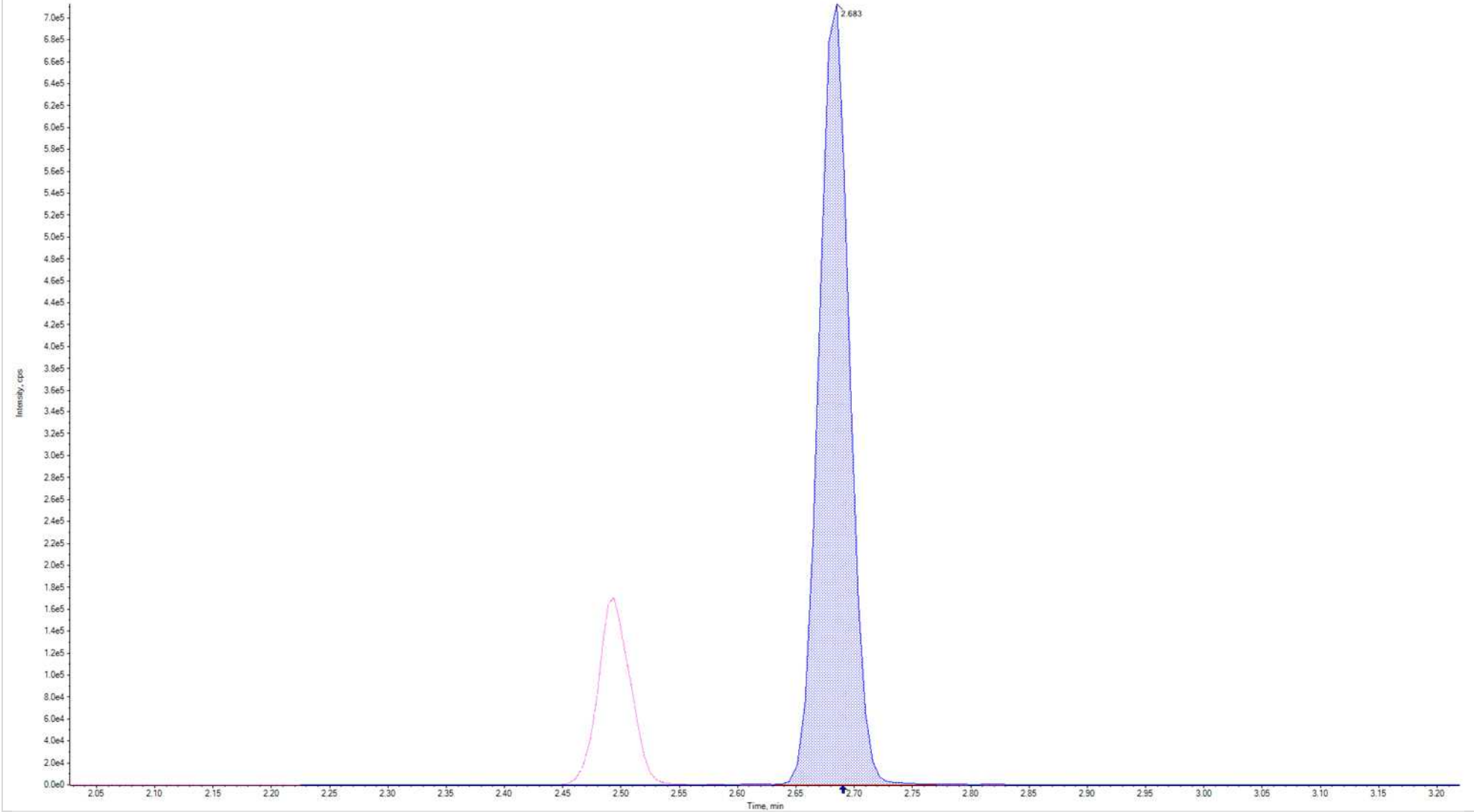
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

ADONA
Sample: WG2038443-4 S/N:25241.4 Points Across peak:31



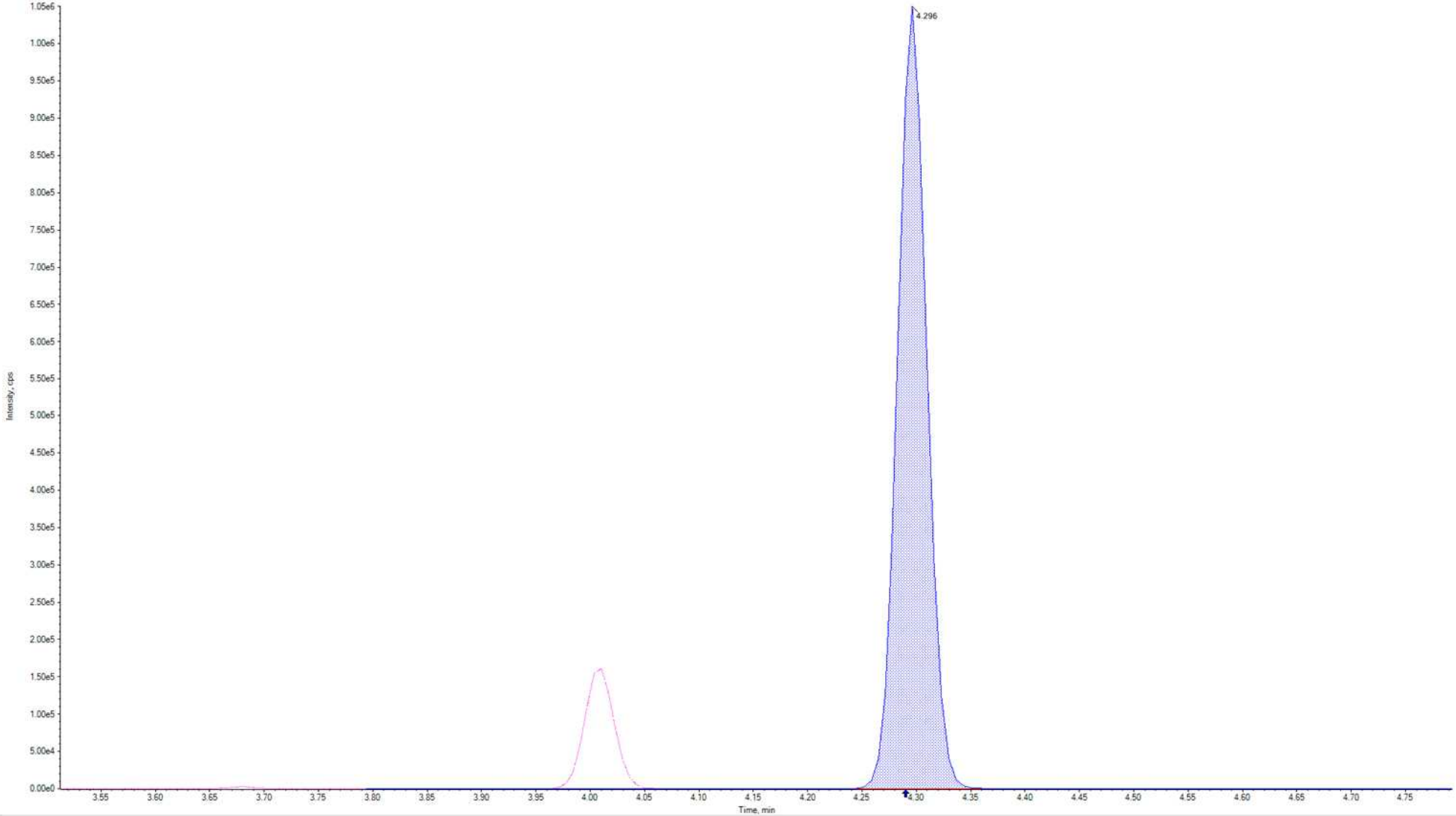
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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ADONA_2
Sample: WG2038443-4 S/N:14292.2 Points Across peak:23



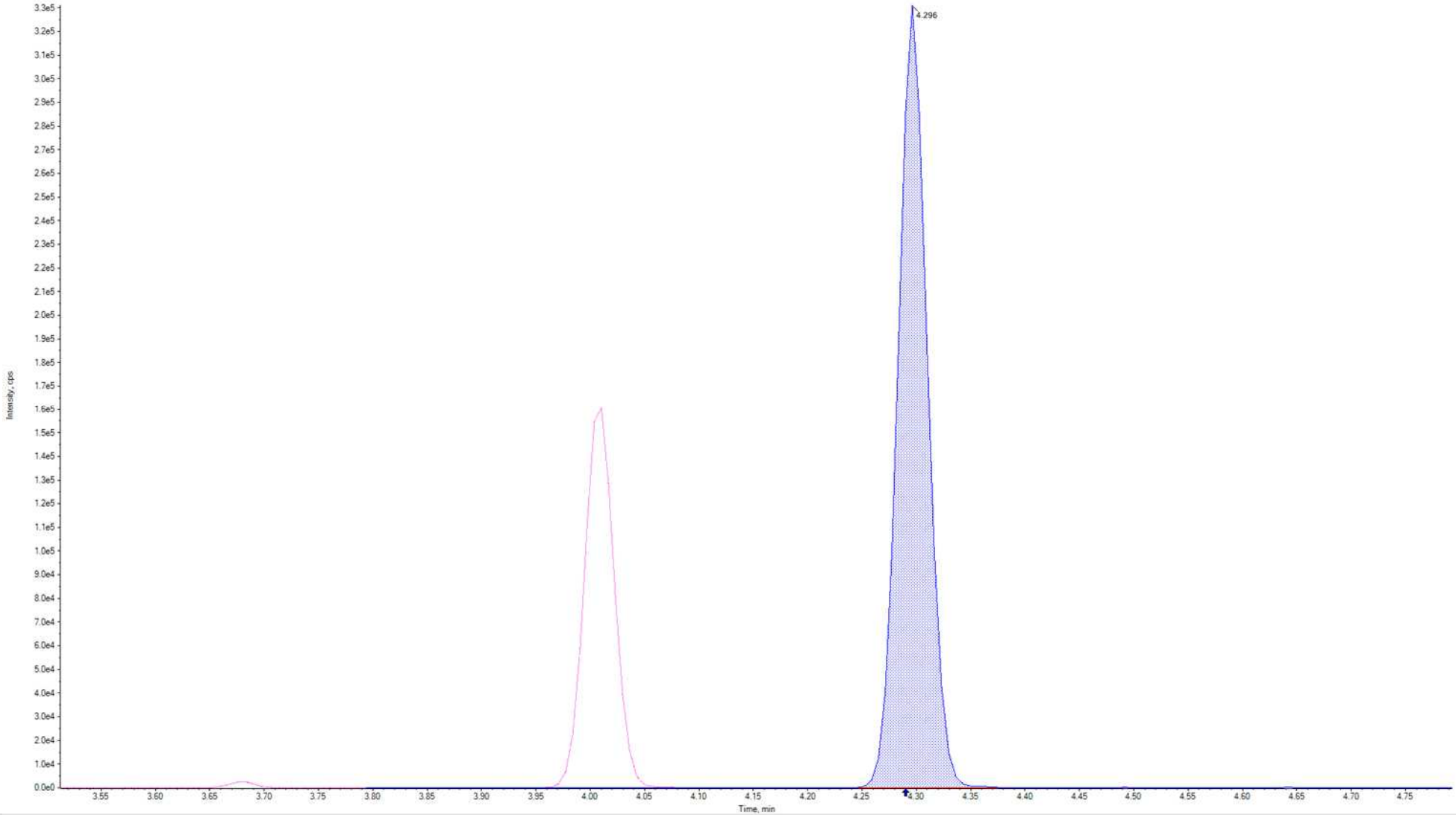
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

9Cl-PF3ONS
Sample: WG2038443-4 S/N:9941.7 Points Across peak:24



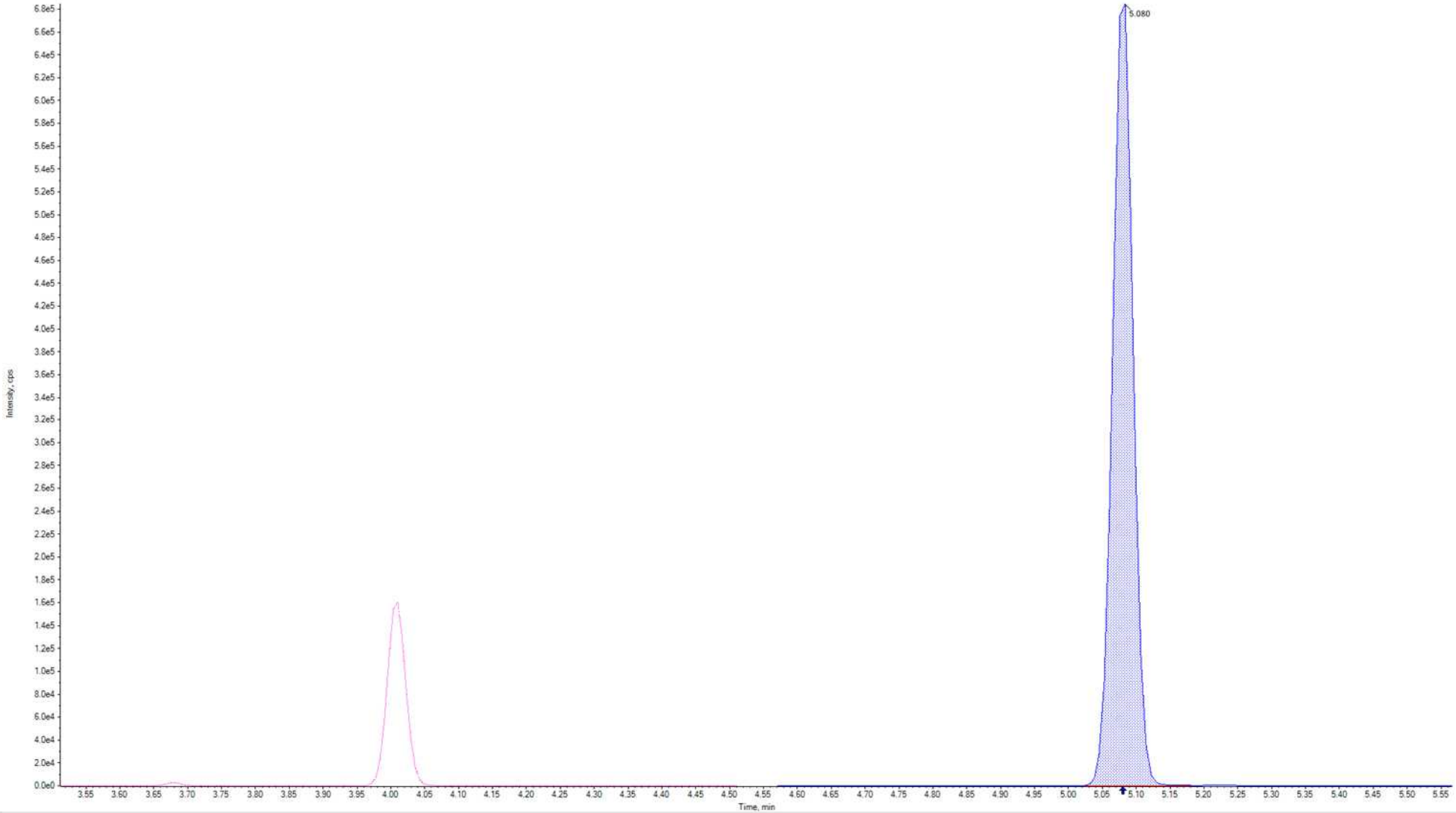
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Alpha Analytical LLC
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9Cl-PF3ONS_2
Sample: WG2038443-4 S/N:7469.5 Points Across peak:26



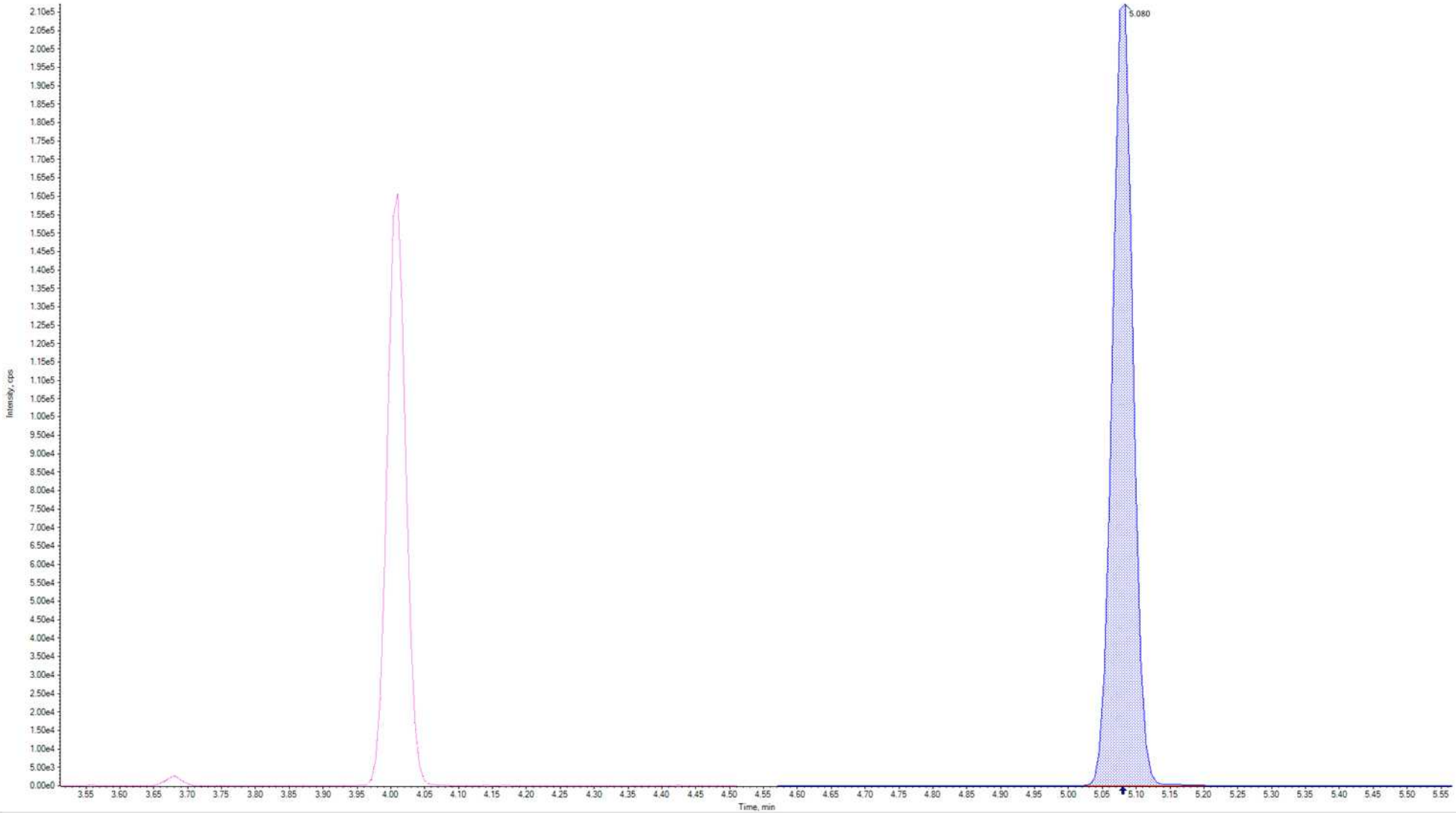
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11Cl-PF3OUdS
Sample: WG2038443-4 S/N:6926.1 Points Across peak:26



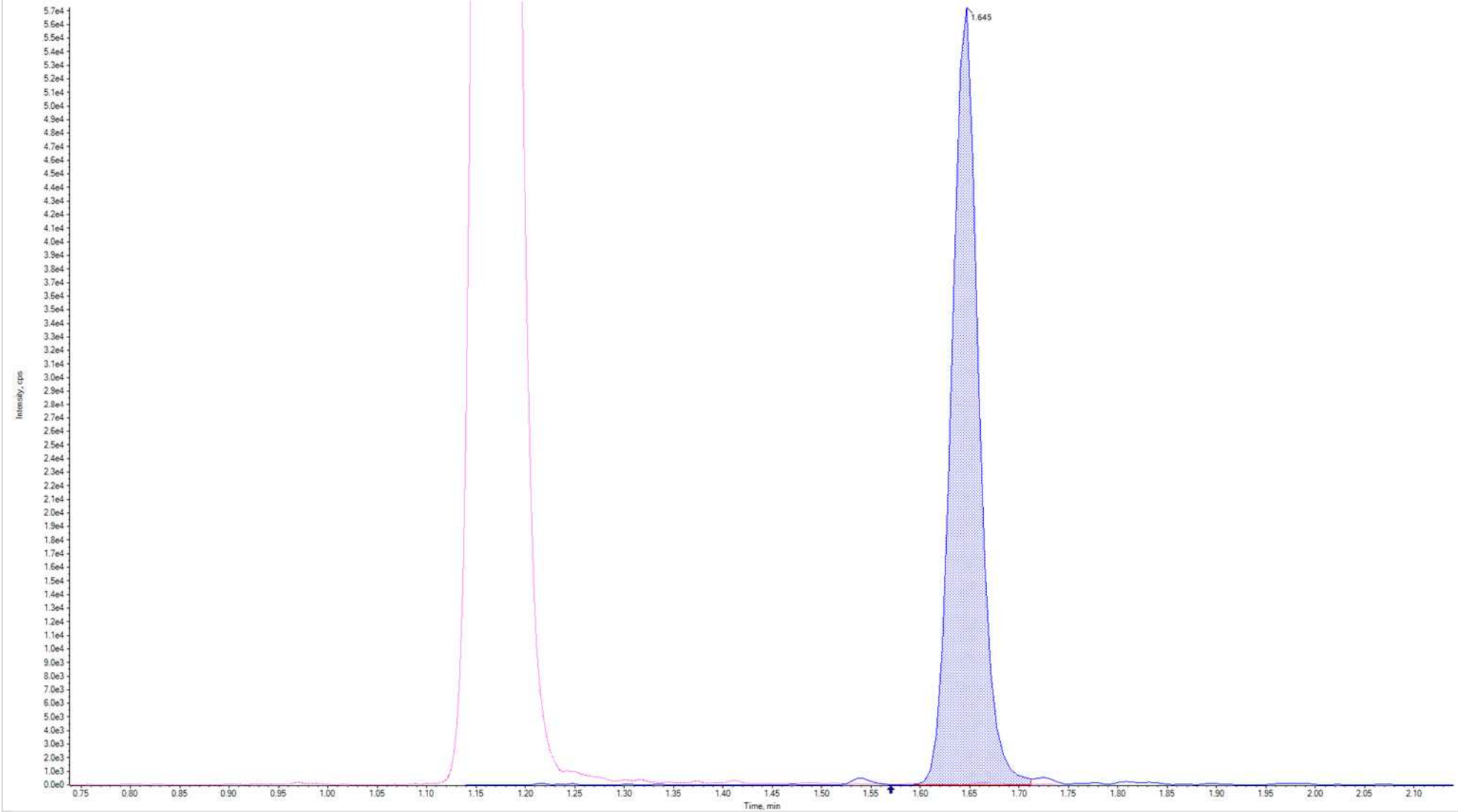
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Alpha Analytical LLC
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11Cl-PF3OUdS_2
Sample: WG2038443-4 S/N:4615.1 Points Across peak:33



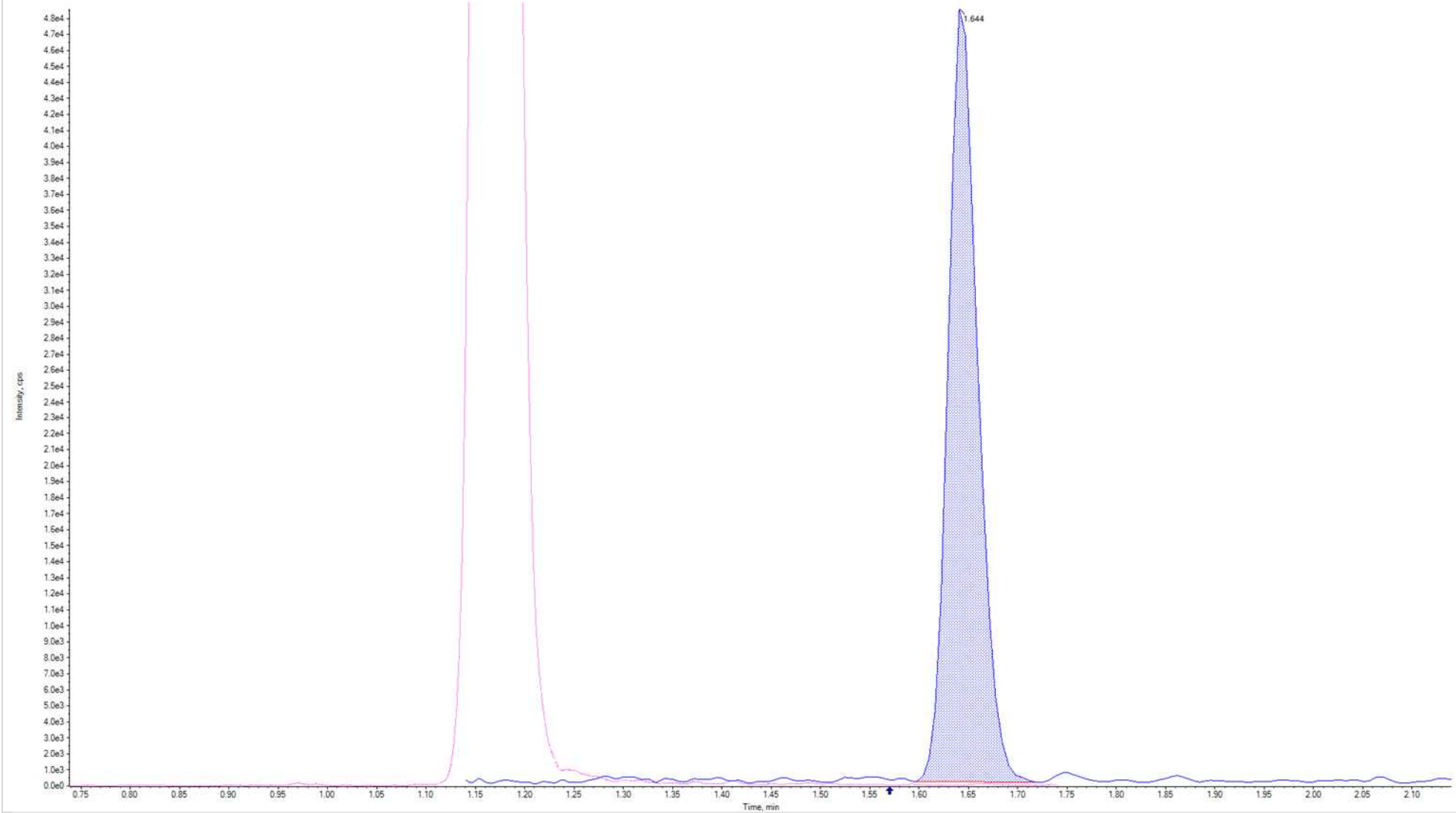
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Alpha Analytical LLC
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3:3FTCA
Sample: WG2038443-4 S/N:1434.8 Points Across peak:22



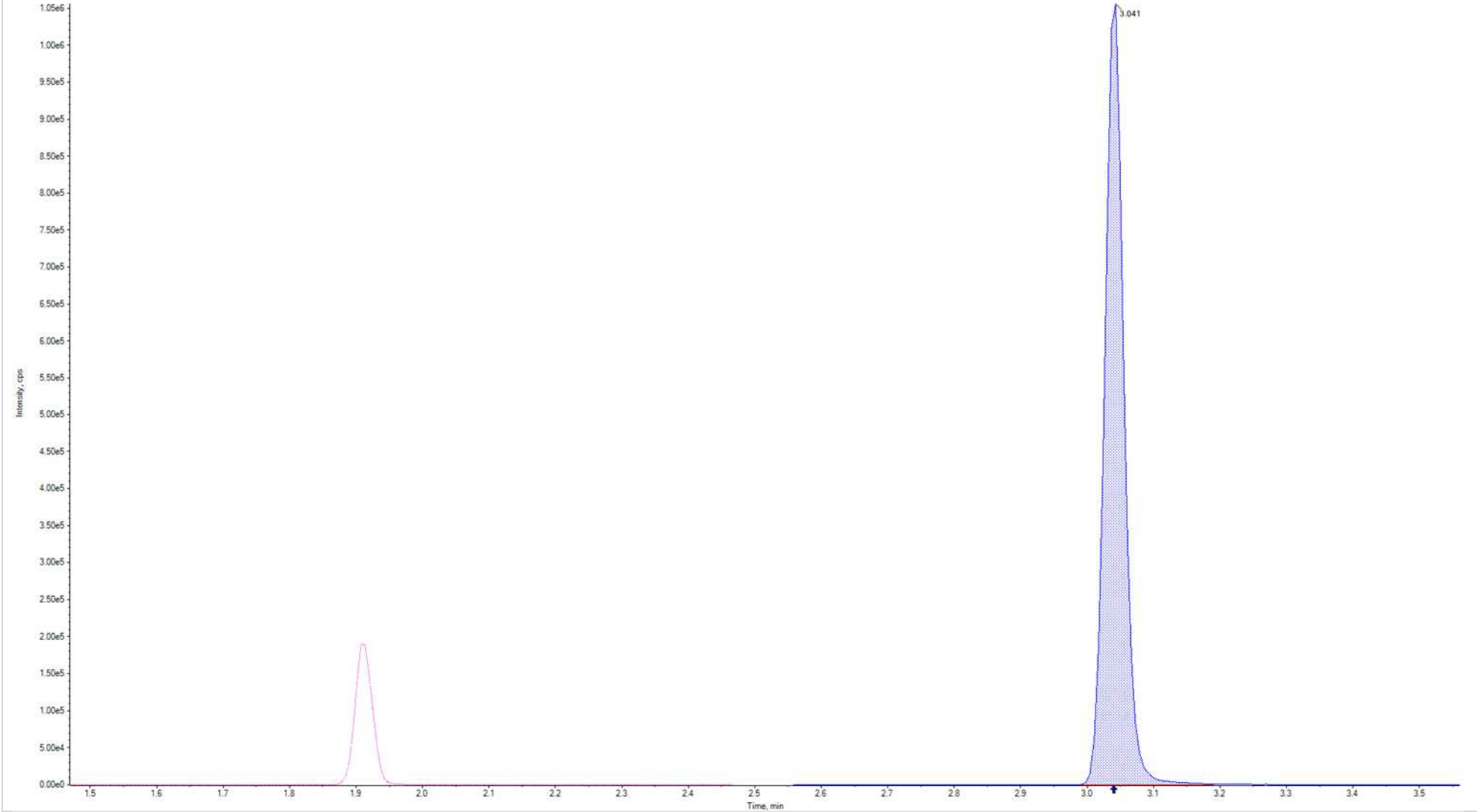
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

3:3FTCA_2
Sample: WG2038443-4 S/N:896.5 Points Across peak:20



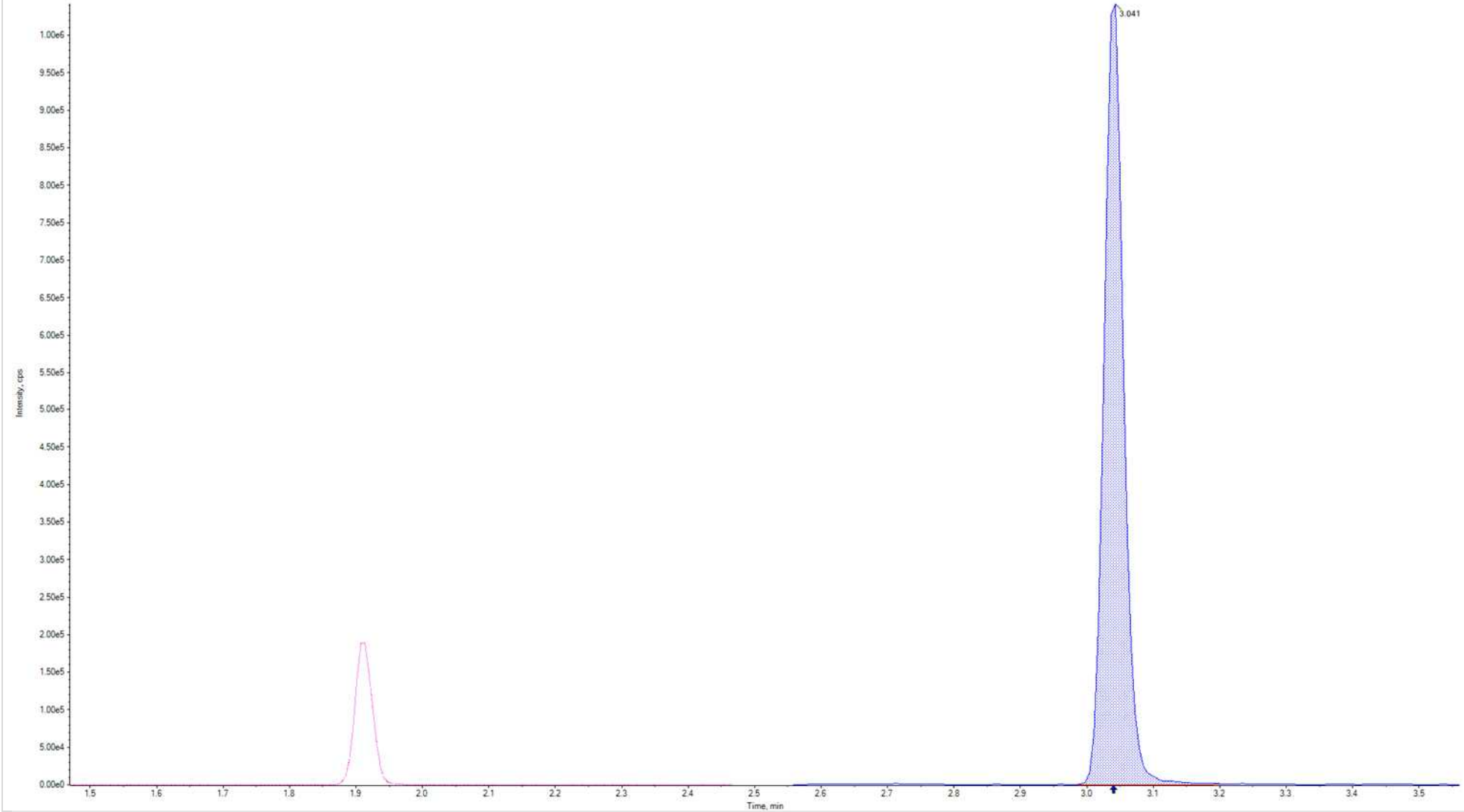
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

5:3FTCA
Sample: WG2038443-4 S/N:18698.6 Points Across peak:36



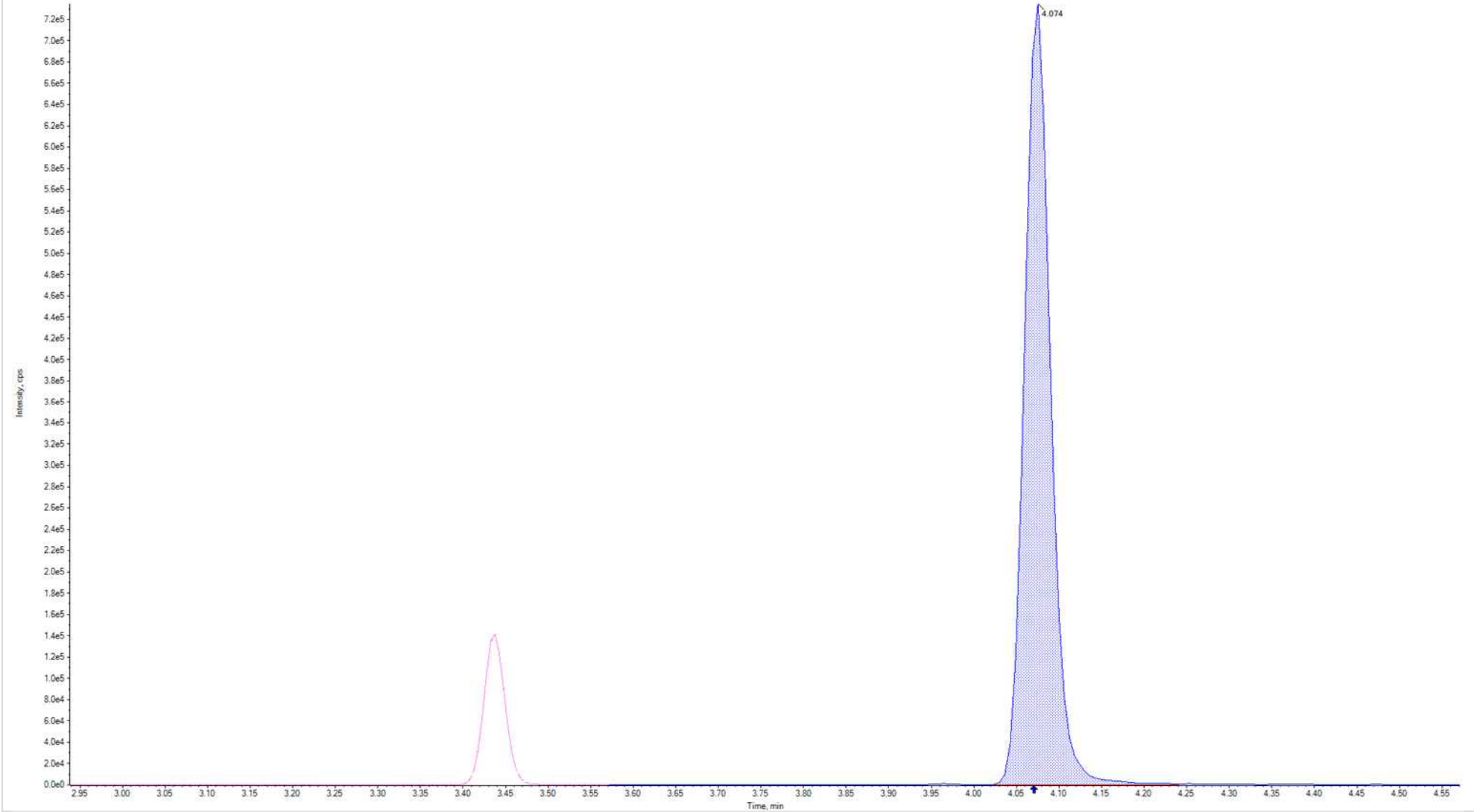
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Alpha Analytical LLC
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5:3FTCA_2
Sample: WG2038443-4 S/N:4229.1 Points Across peak:41



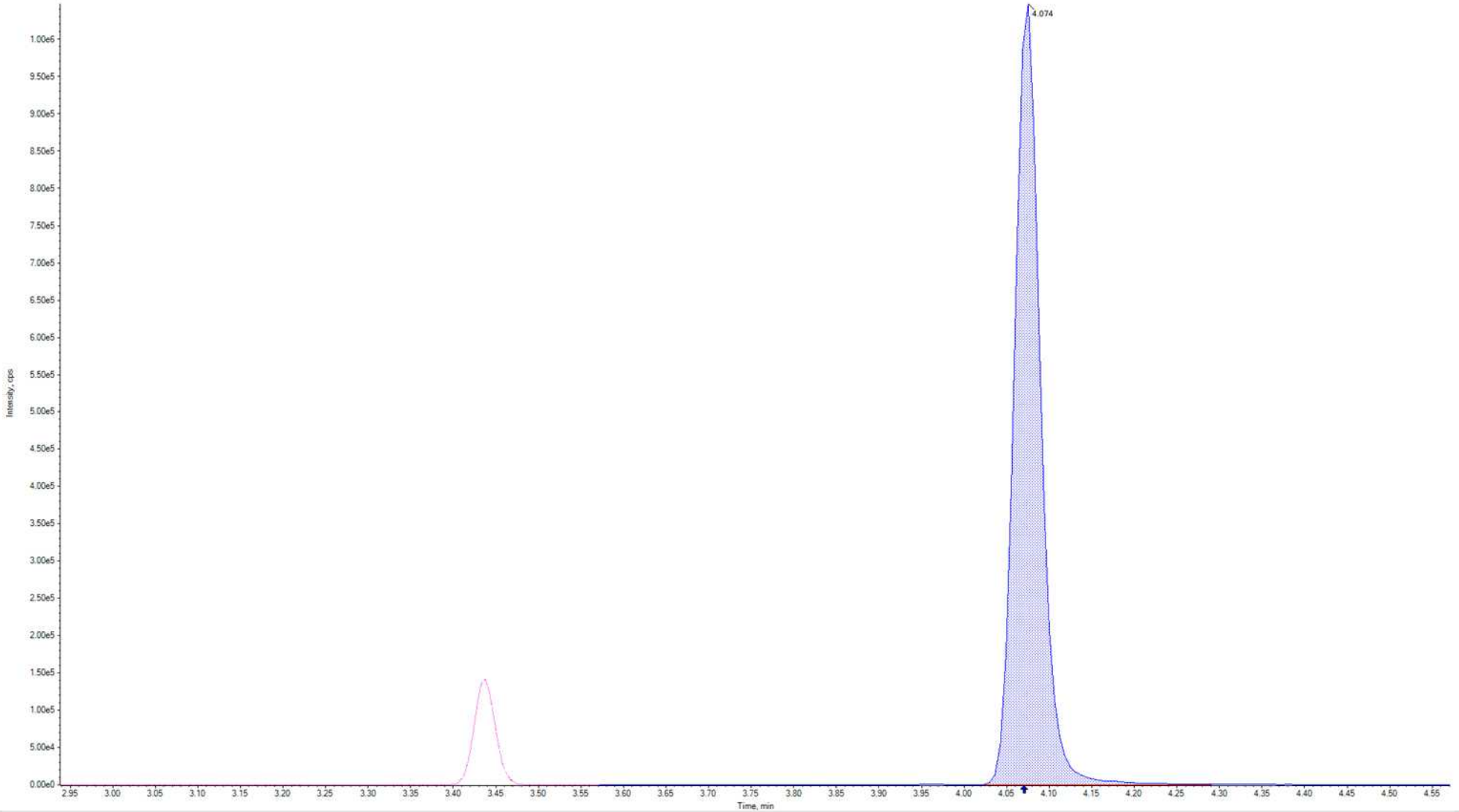
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Alpha Analytical LLC
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7:3FTCA
Sample: WG2038443-4 S/N:18589.2 Points Across peak:38



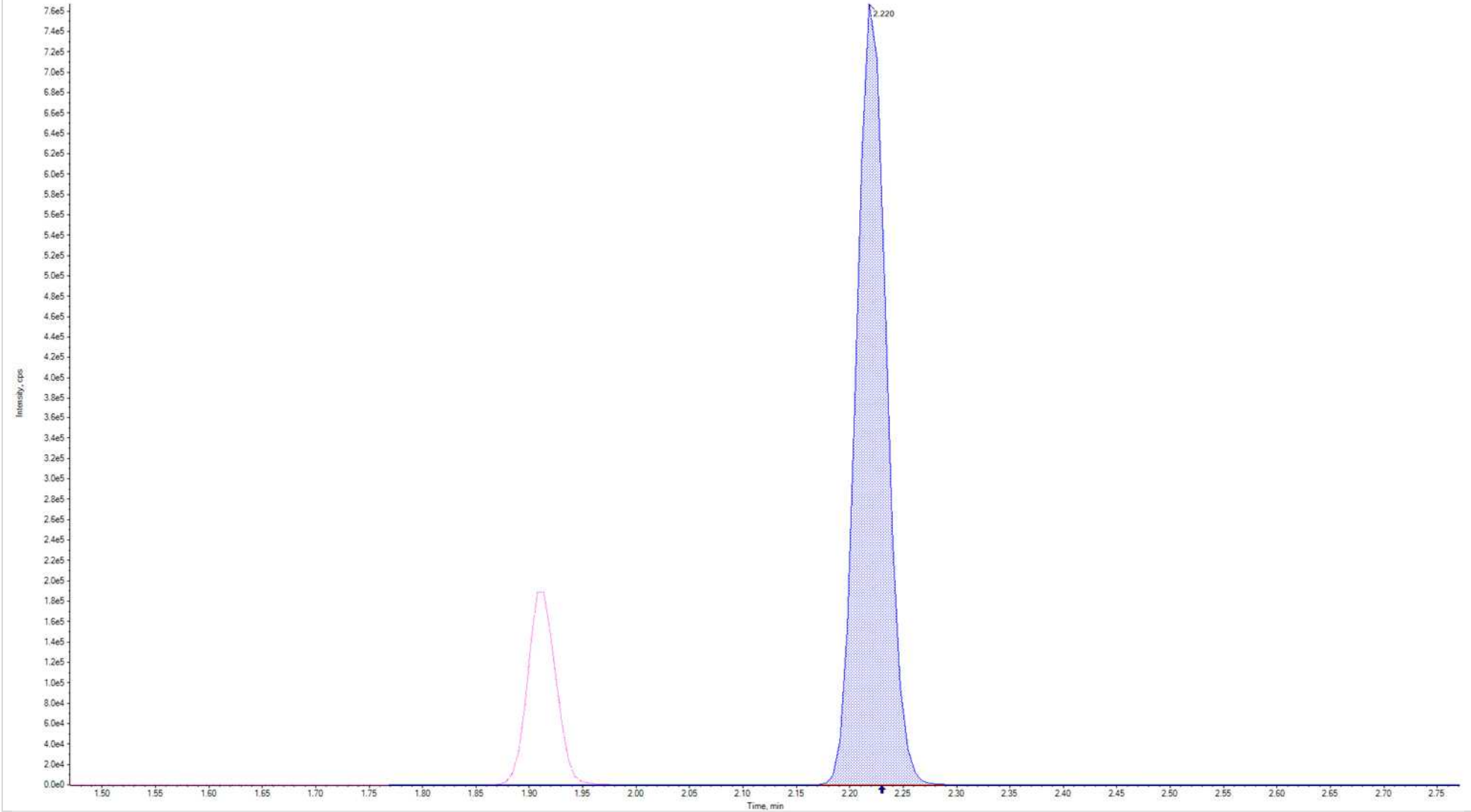
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_55.wiff2_14
Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

7:3FTCA_2
Sample: WG2038443-4 S/N:22258.8 Points Across peak:46



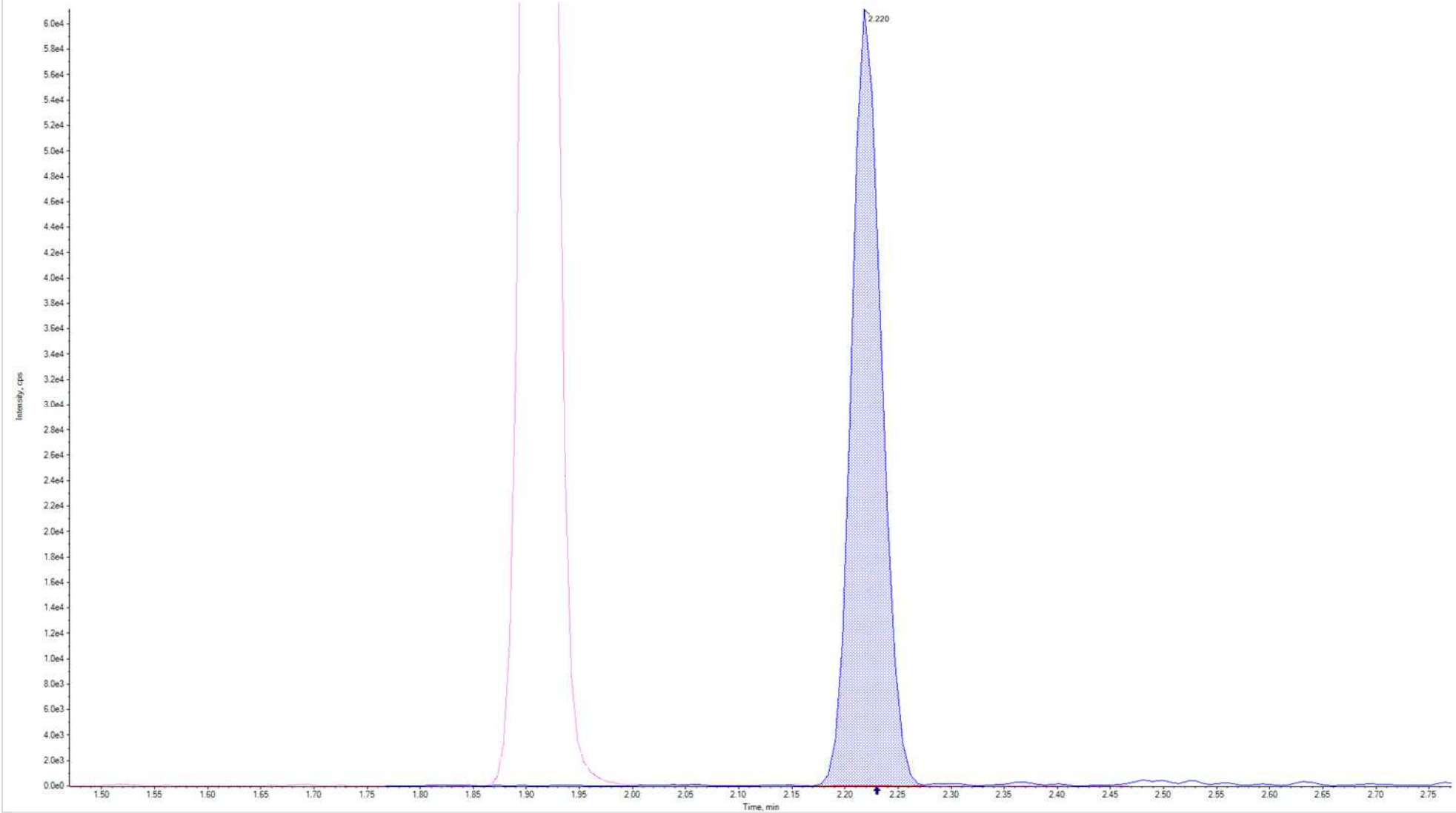
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFEESA
Sample: WG2038443-4 S/N:17304.6 Points Across peak:21



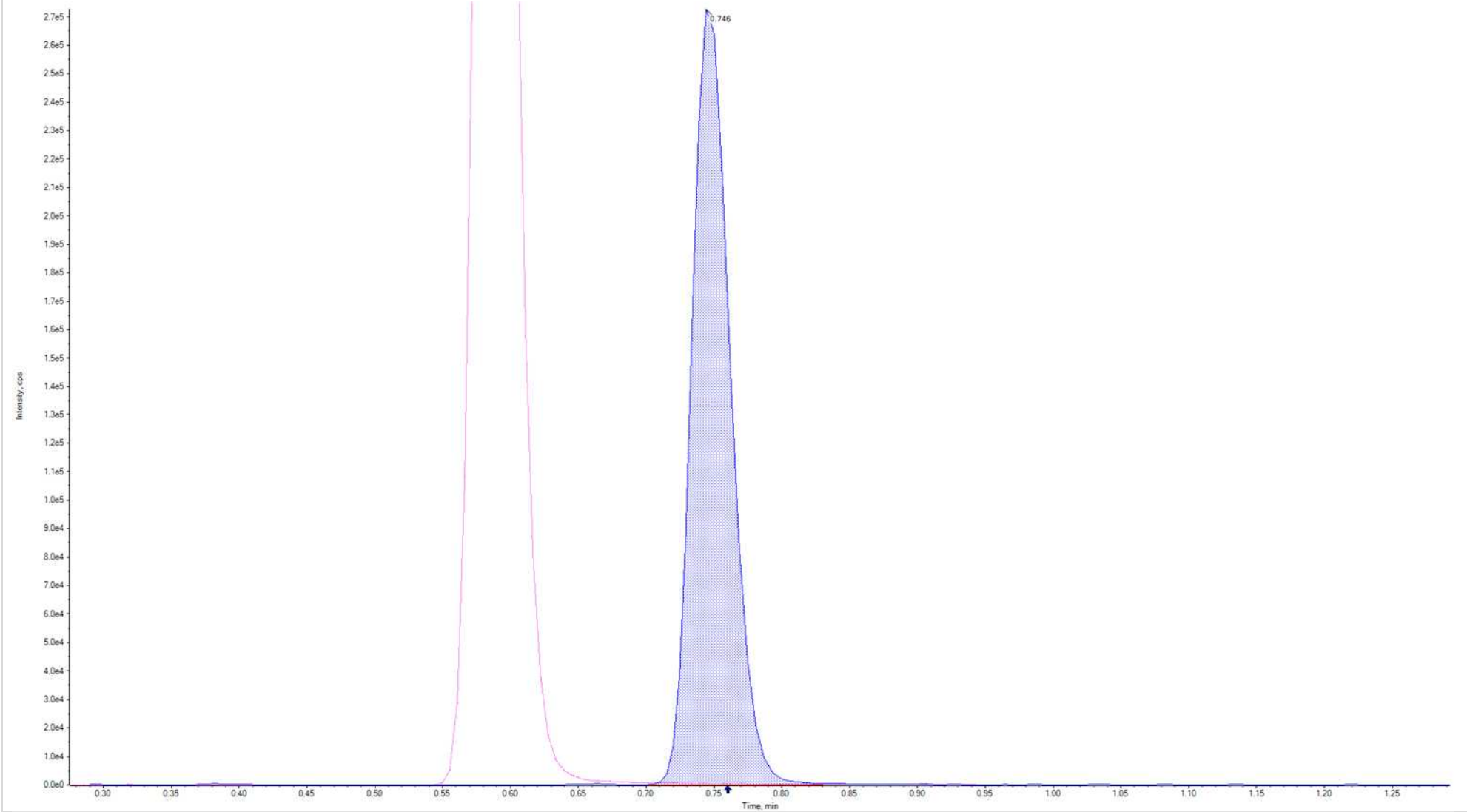
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFEESA_2
Sample: WG2038443-4 S/N:1209.8 Points Across peak:17



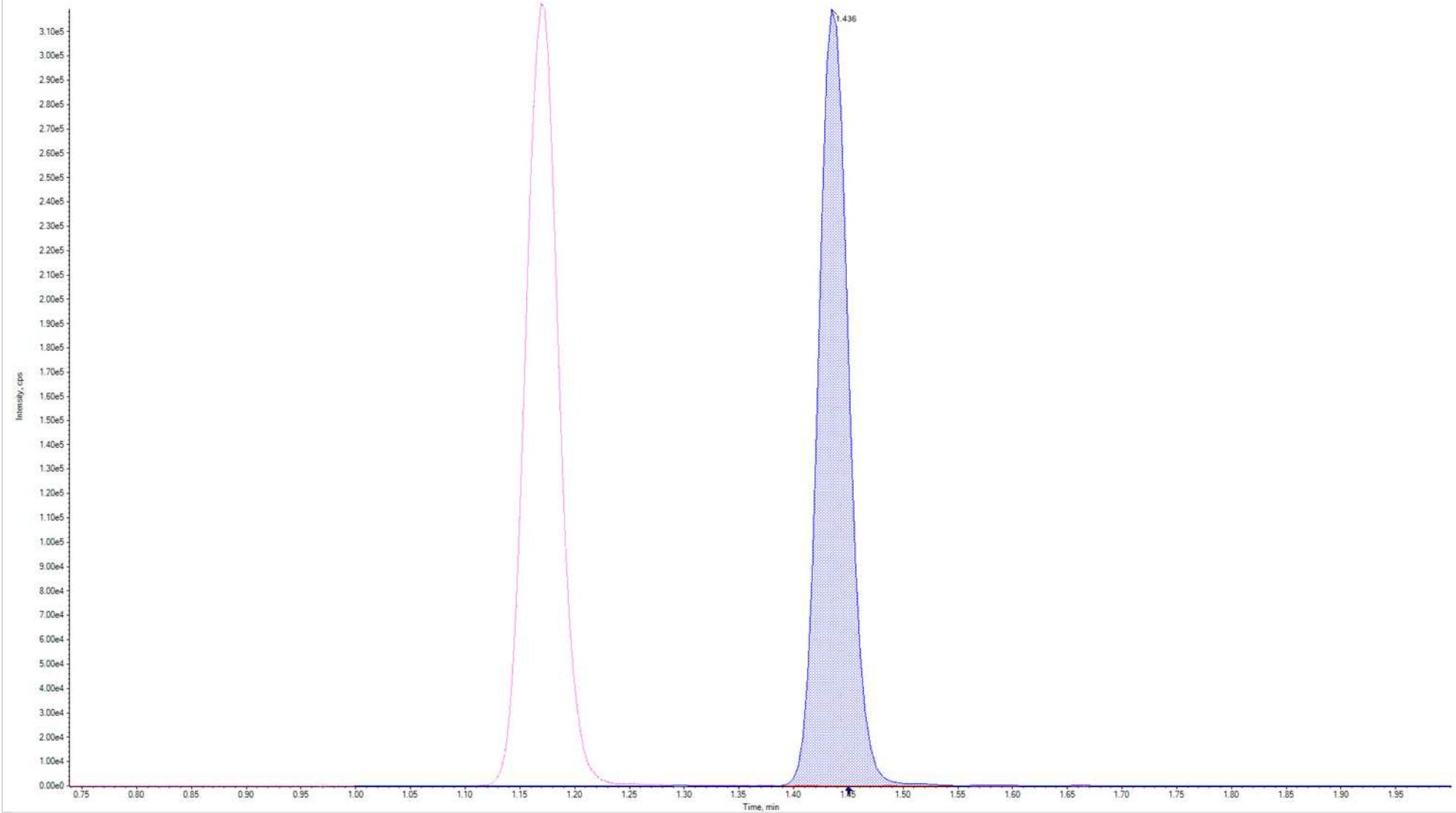
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFMPA
Sample: WG2038443-4 S/N:7594.1 Points Across peak:25



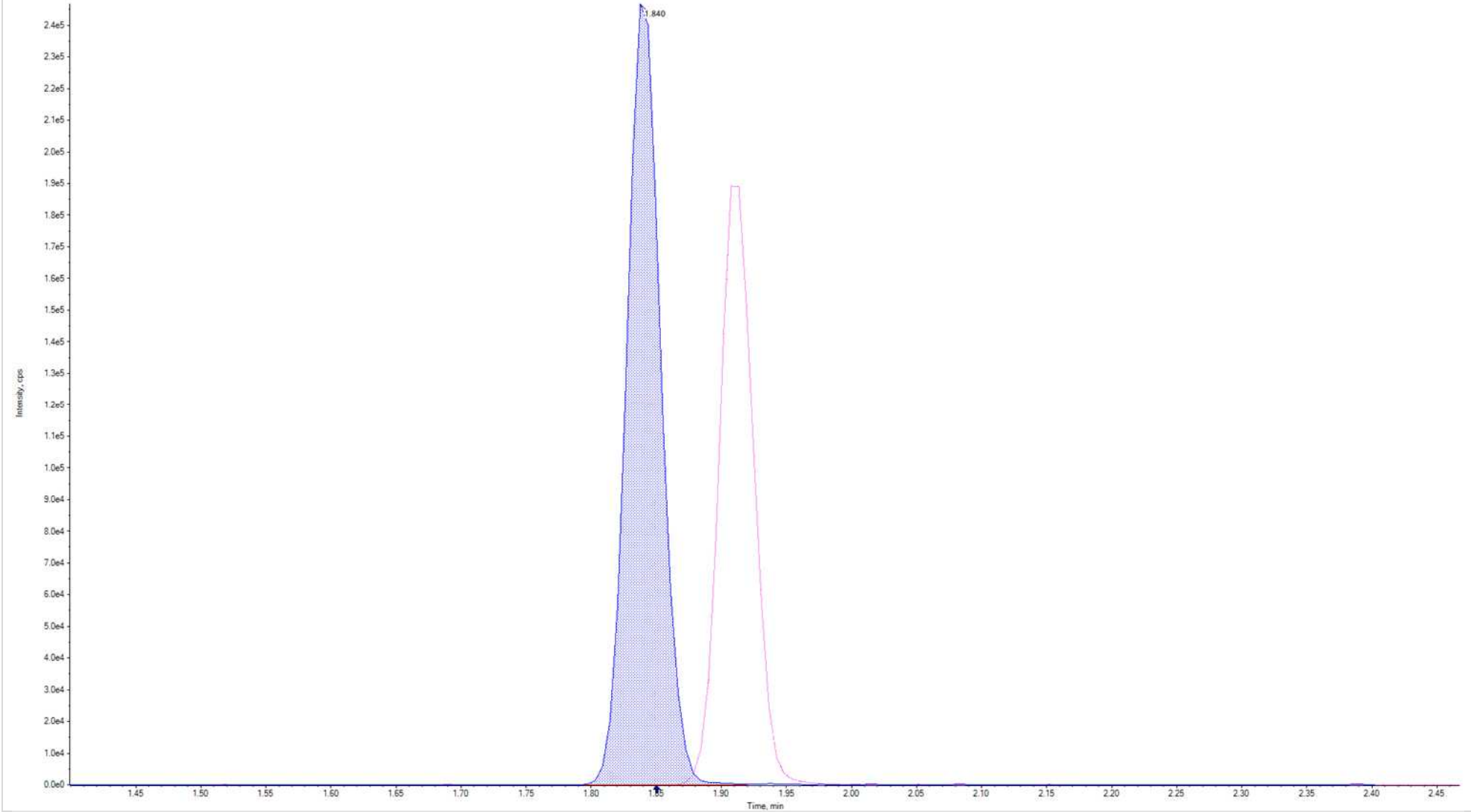
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_55.wiff2_14
Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFMBA
Sample: WG2038443-4 S/N:18399.4 Points Across peak:35



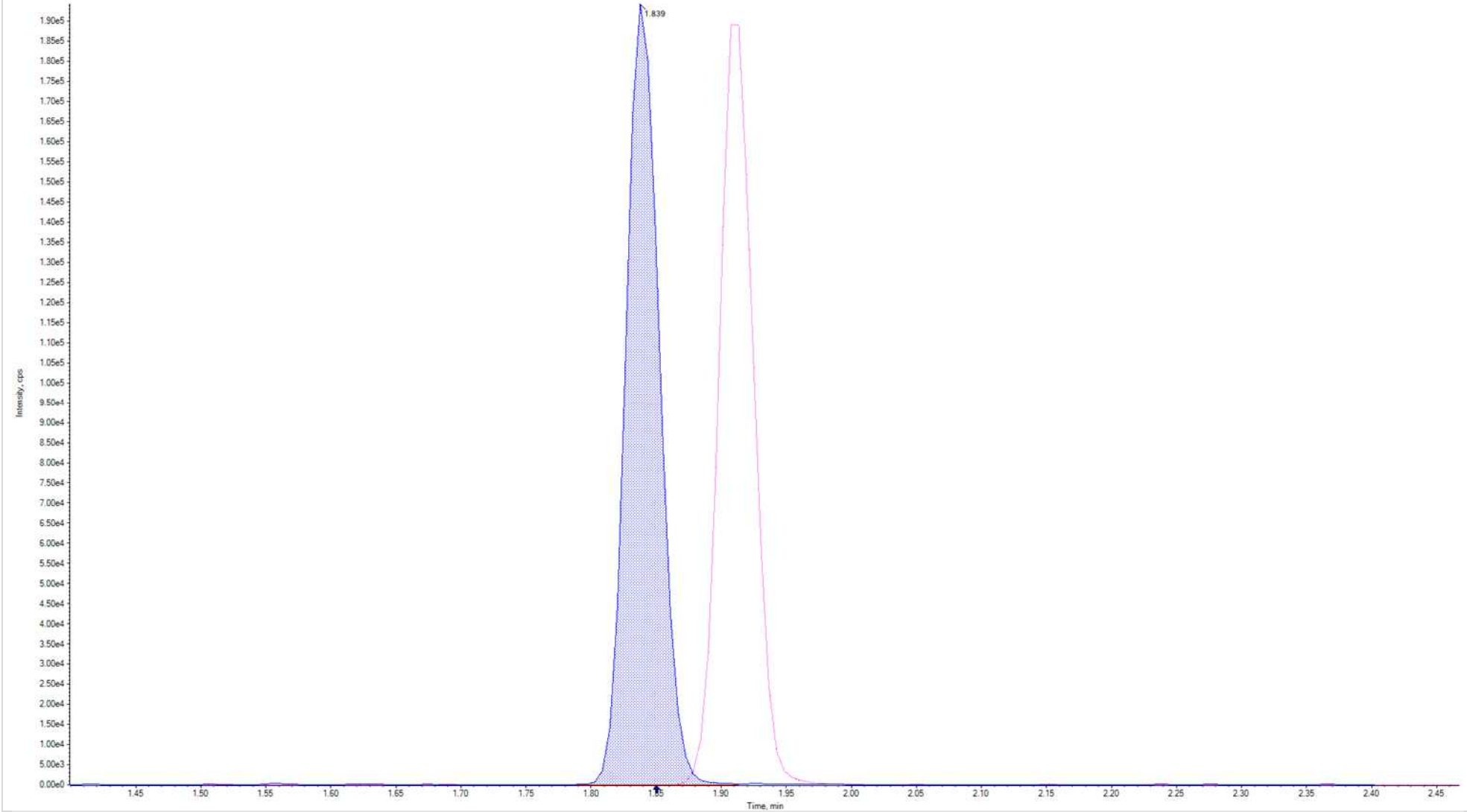
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

NFDHA
Sample: WG2038443-4 S/N:6803.5 Points Across peak:28



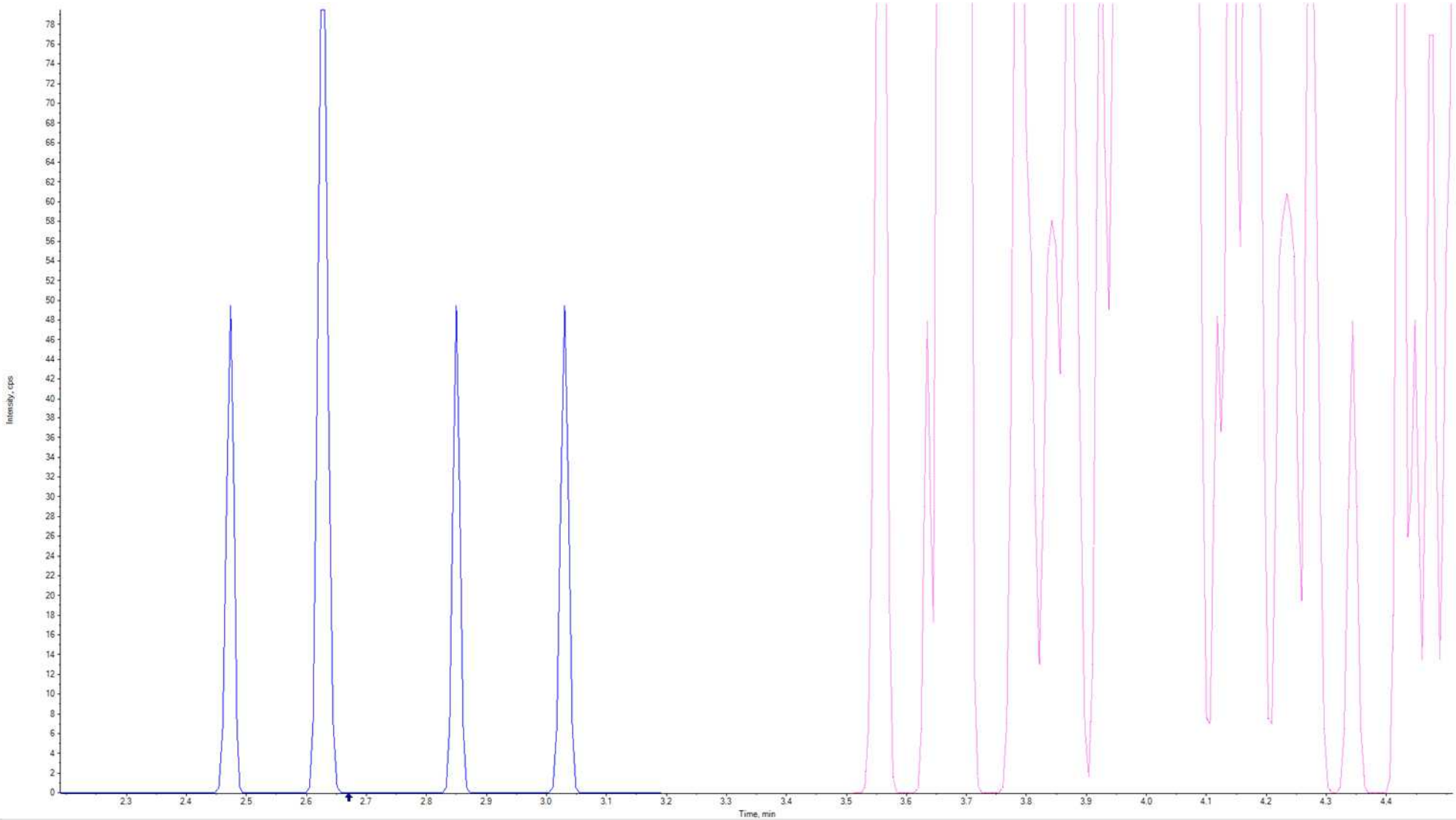
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Alpha Analytical LLC
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NFDHA_2
Sample: WG2038443-4 S/N:5357.1 Points Across peak:28



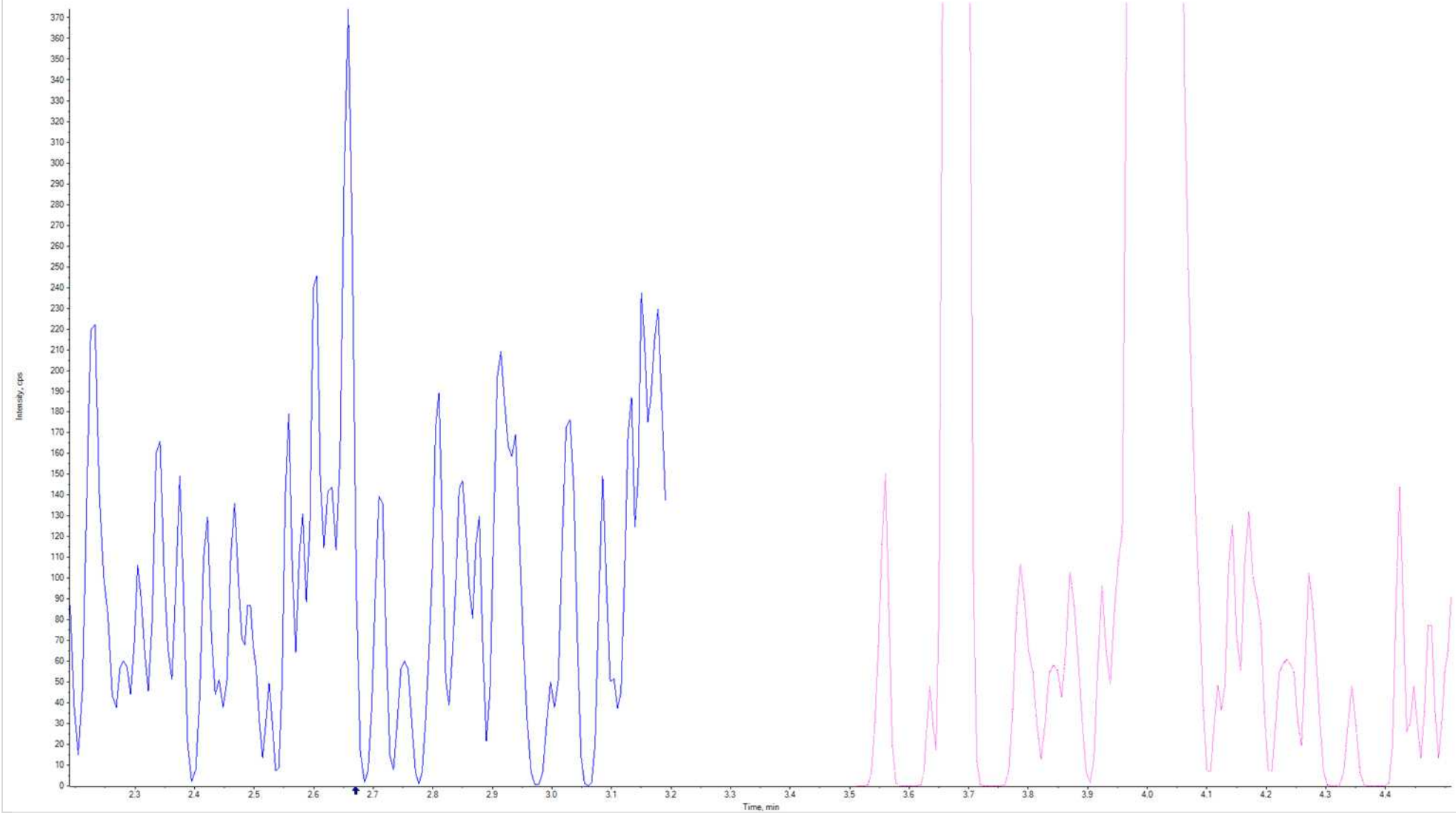
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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TDCA
Sample: WG2038443-4 S/N:N/A Points Across peak:N/A



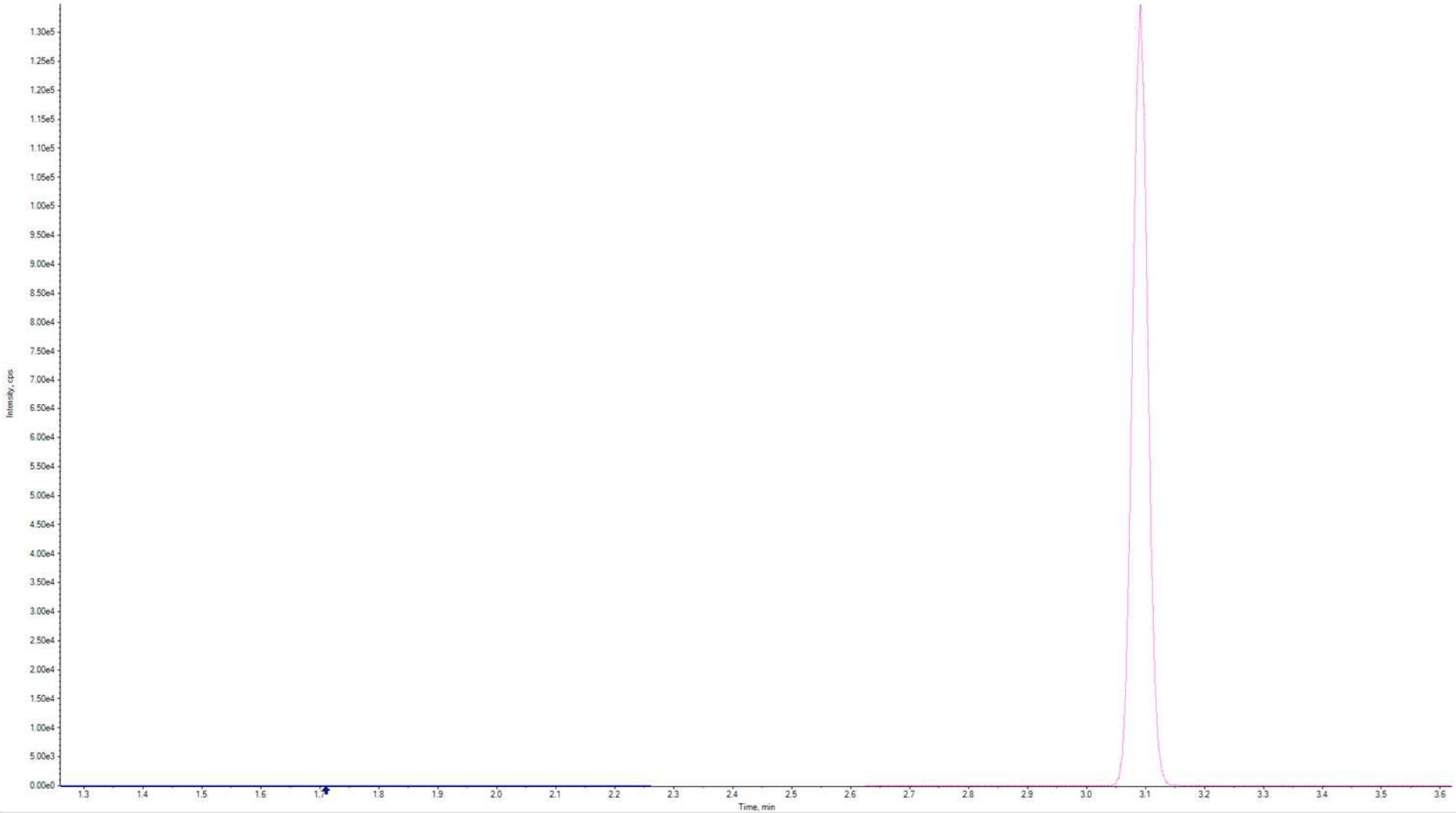
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

TDCA_2
Sample: WG2038443-4 S/N:N/A Points Across peak:N/A



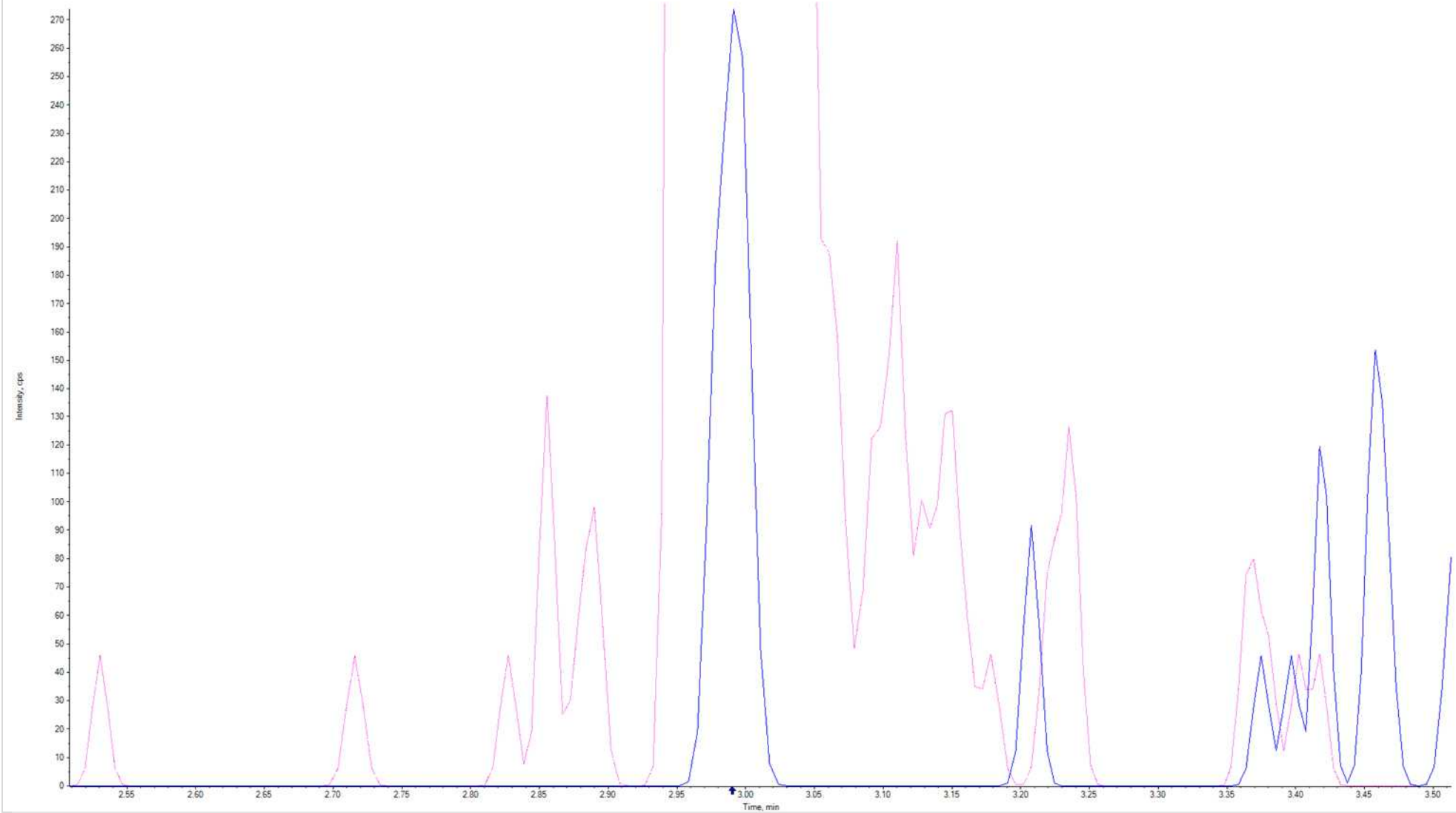
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Alpha Analytical LLC
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13C2D4-4:2FTS
Sample: WG2038443-4 S/N:N/A Points Across peak:N/A

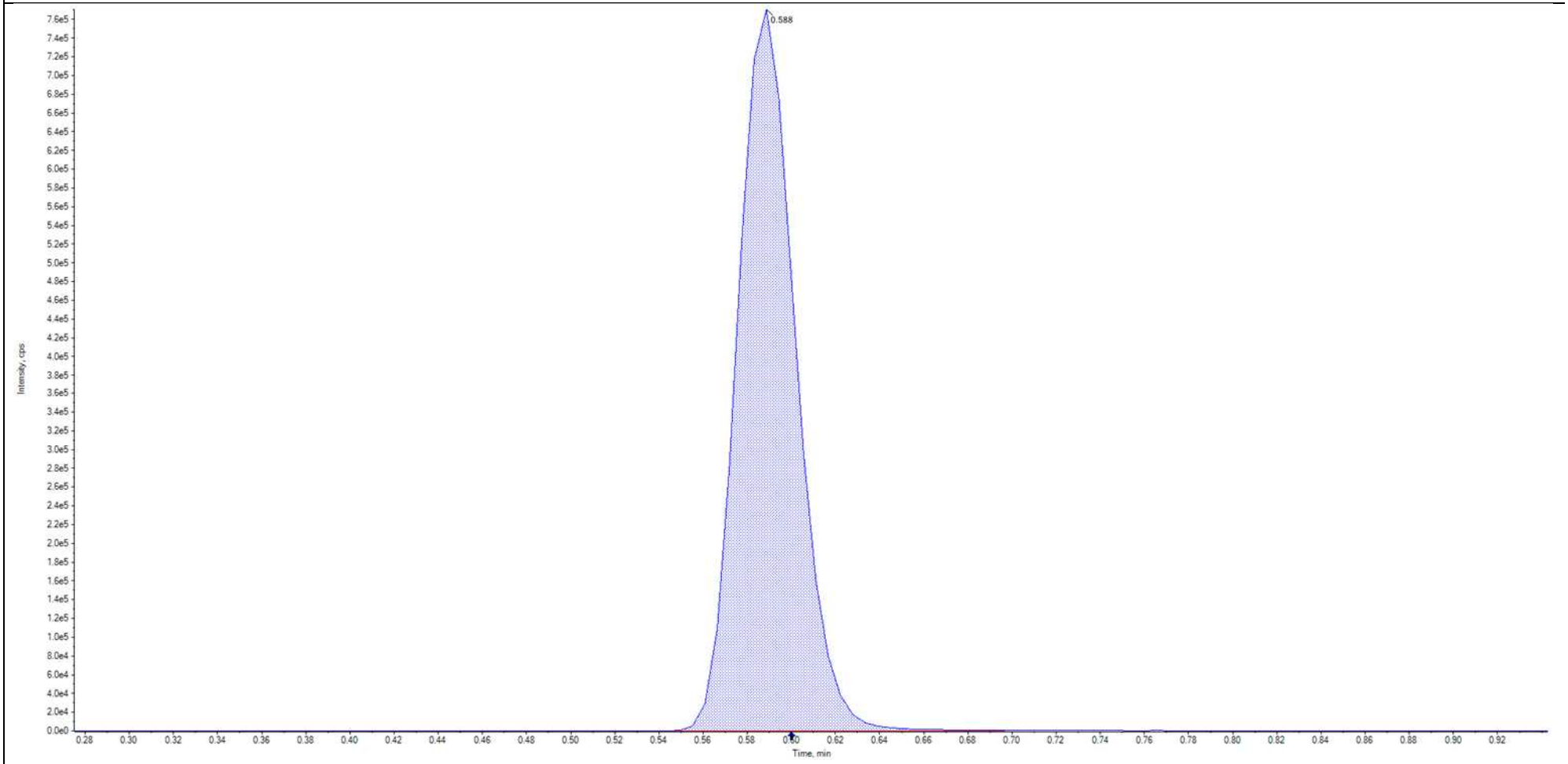


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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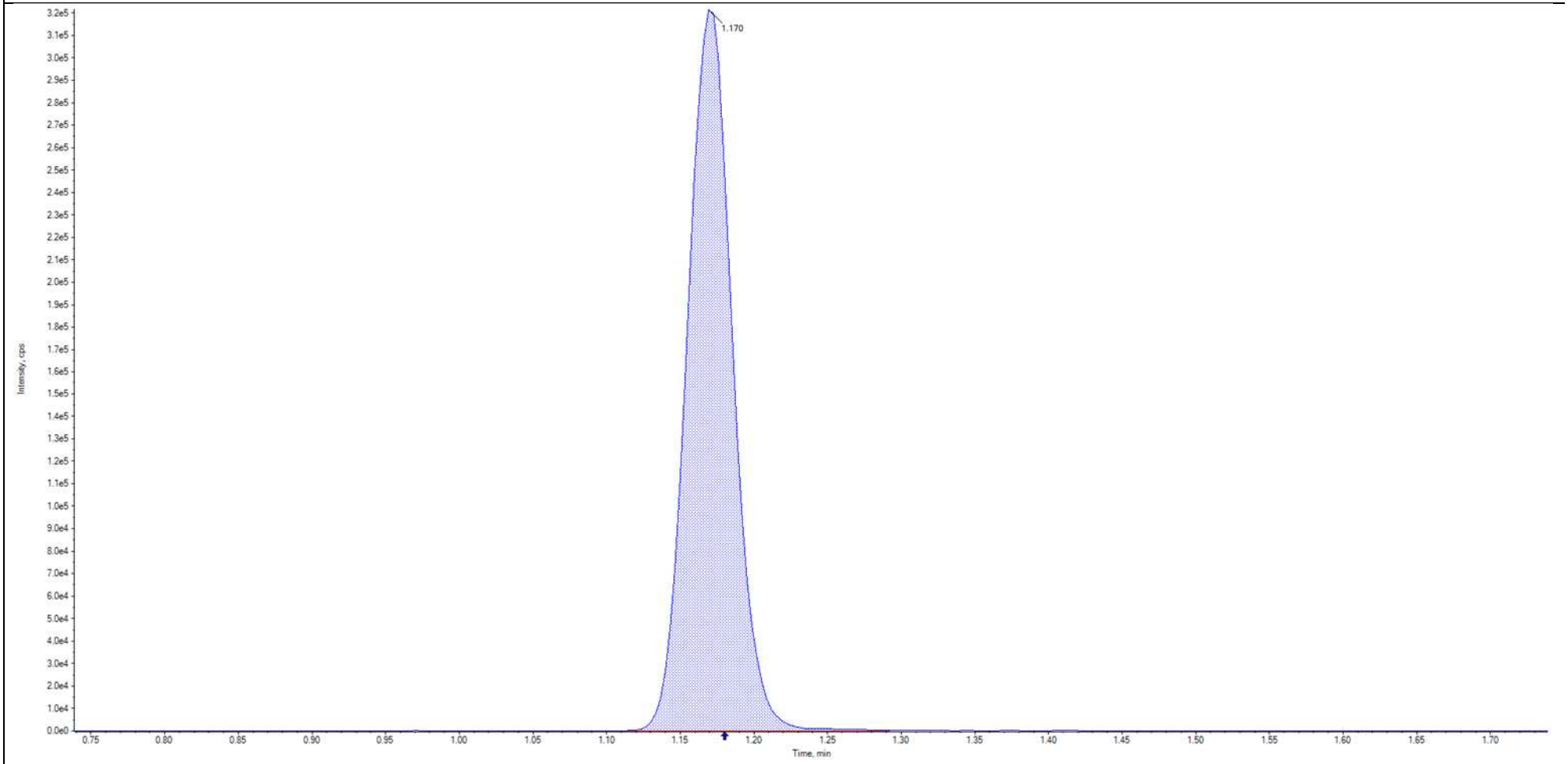
13C2-PFOA
Sample: WG2038443-4 S/N:N/A Points Across peak:N/A



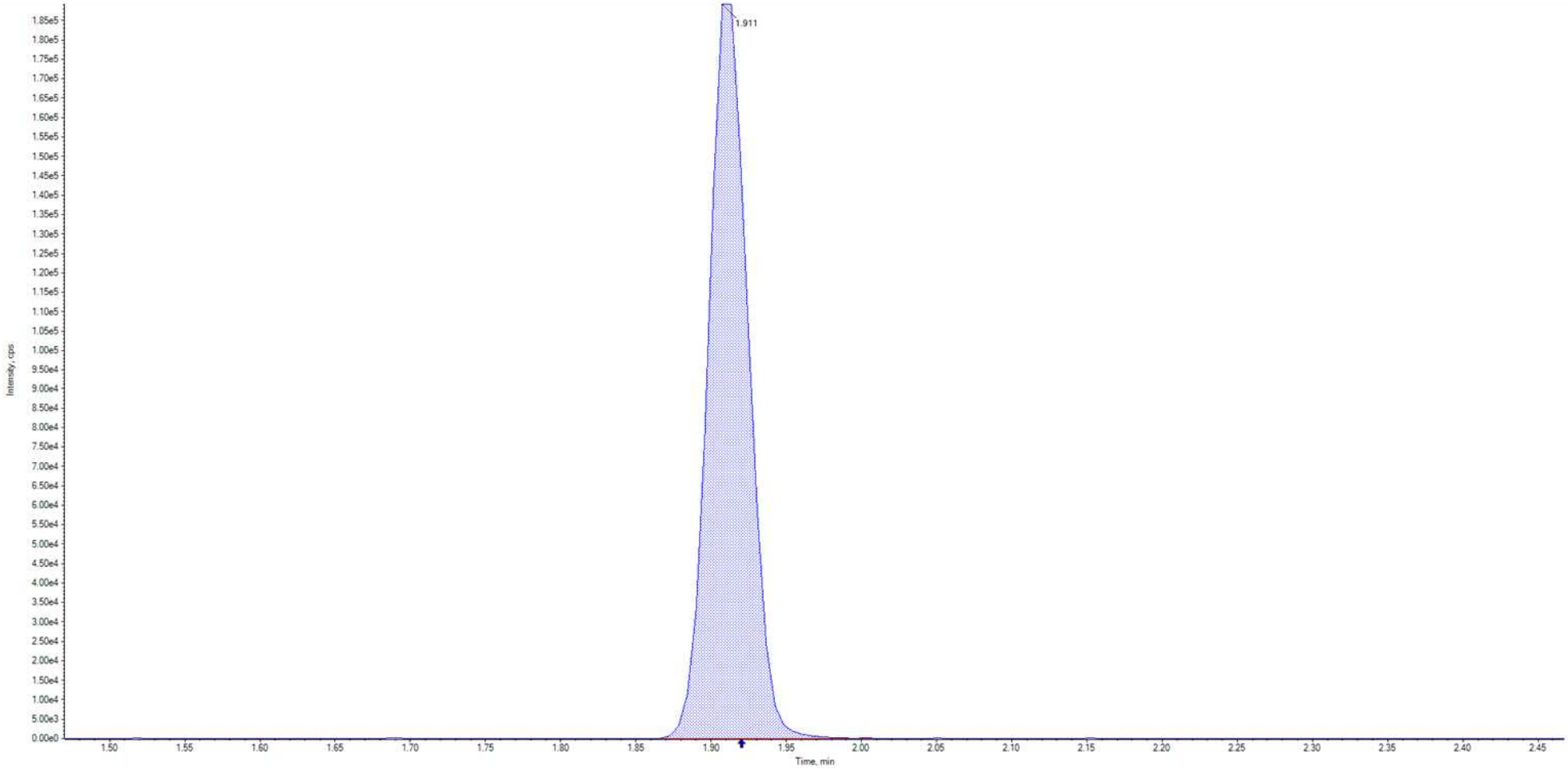
13C4-PFBA
Sample: WG2038443-4



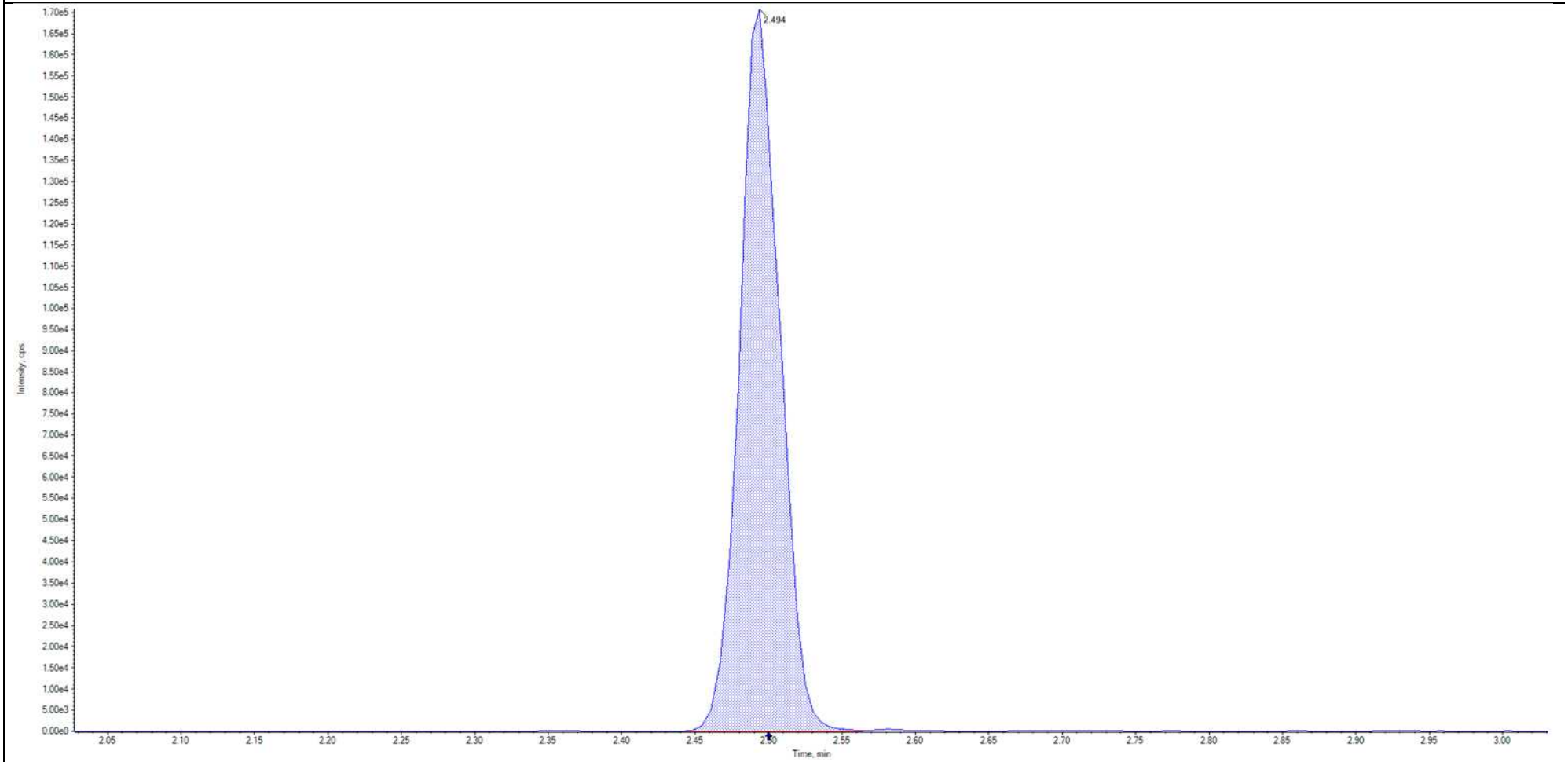
13C5-PFPeA
Sample: WG2038443-4



13C5-PFHxA
Sample: WG2038443-4

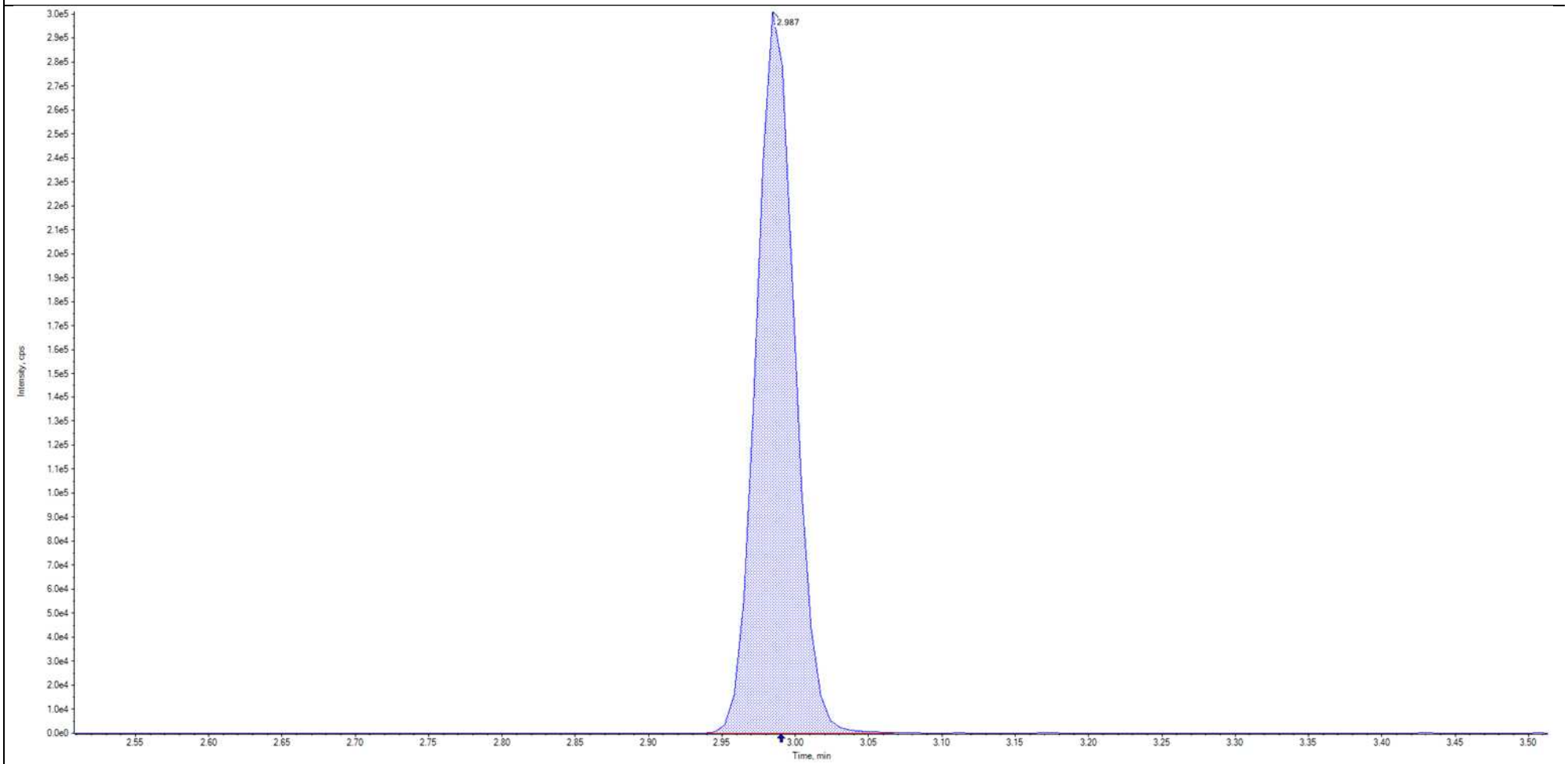


13C4-PFHpA
Sample: WG2038443-4



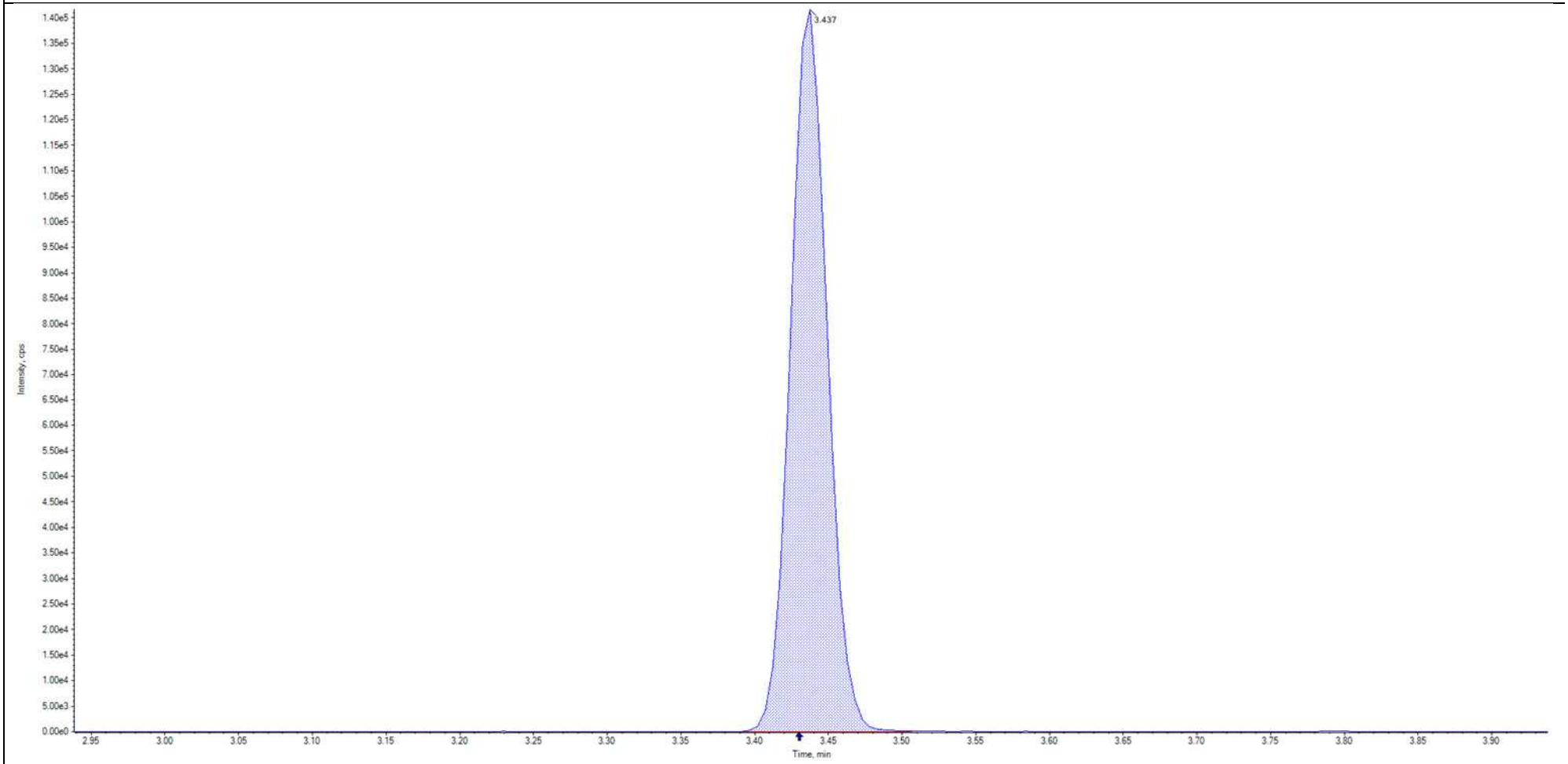
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Alpha Analytical LLC
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13C8-PFOA
Sample: WG2038443-4

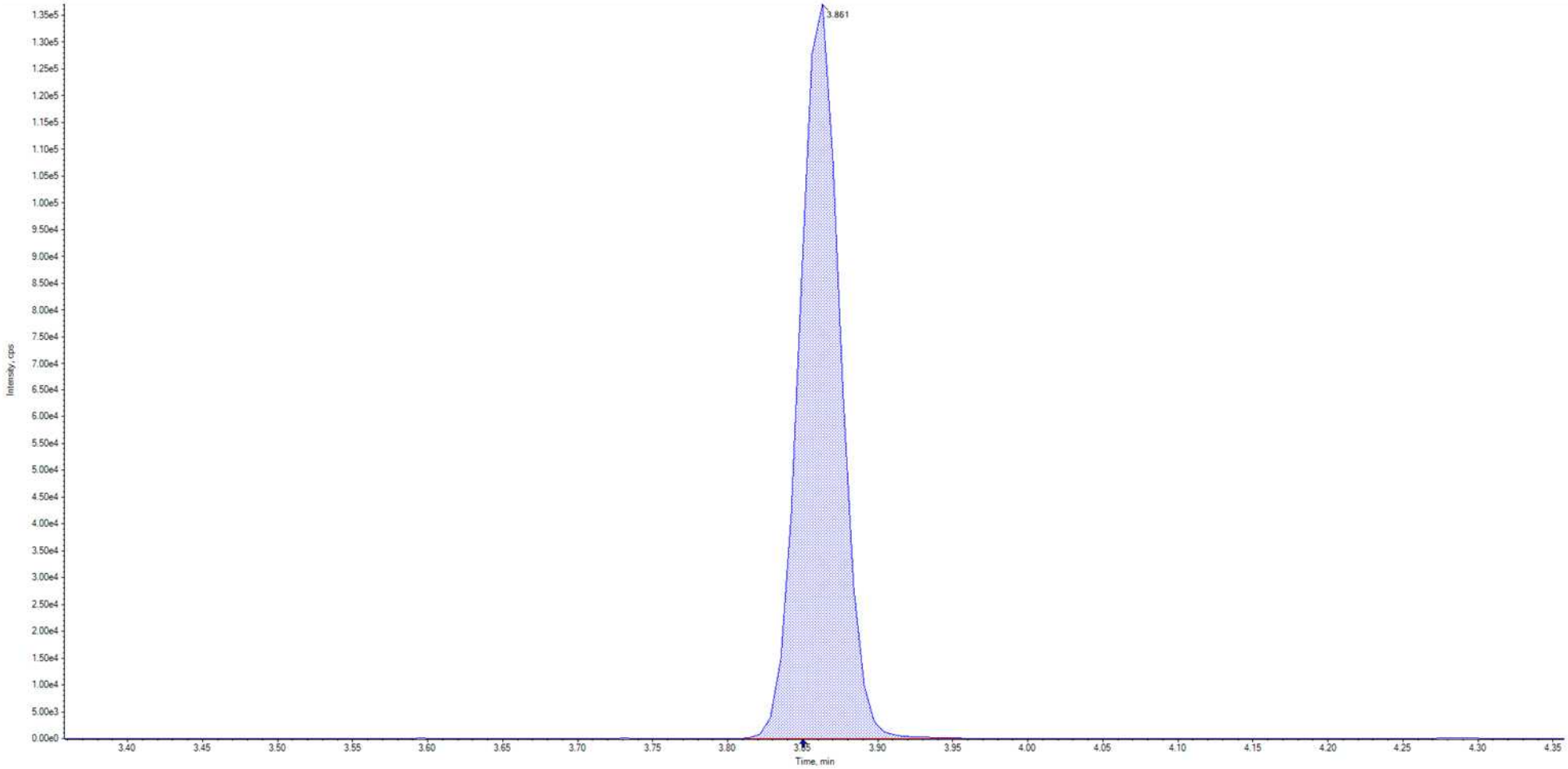


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C9-PFNA
Sample: WG2038443-4

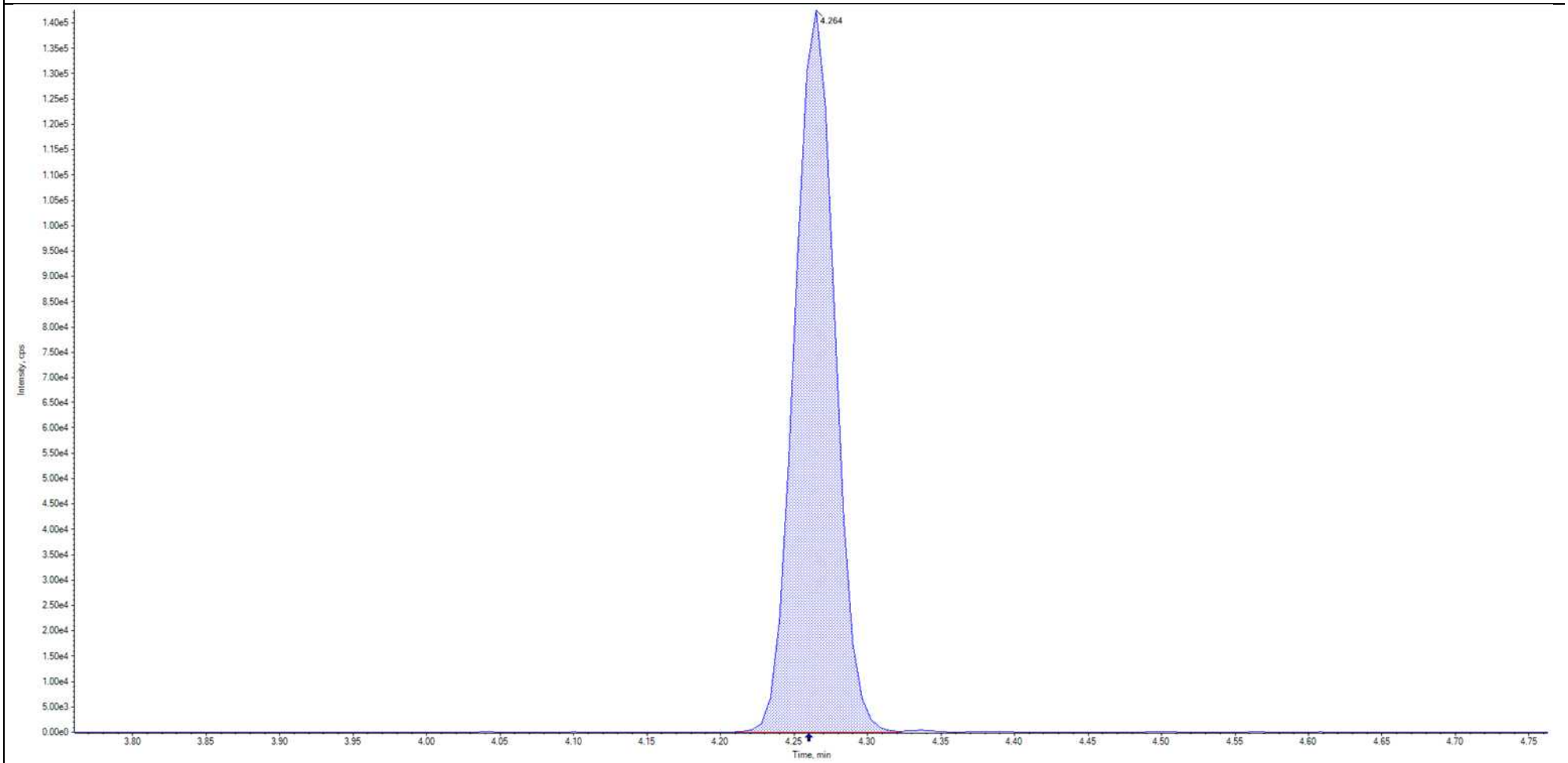


13C6-PFDA
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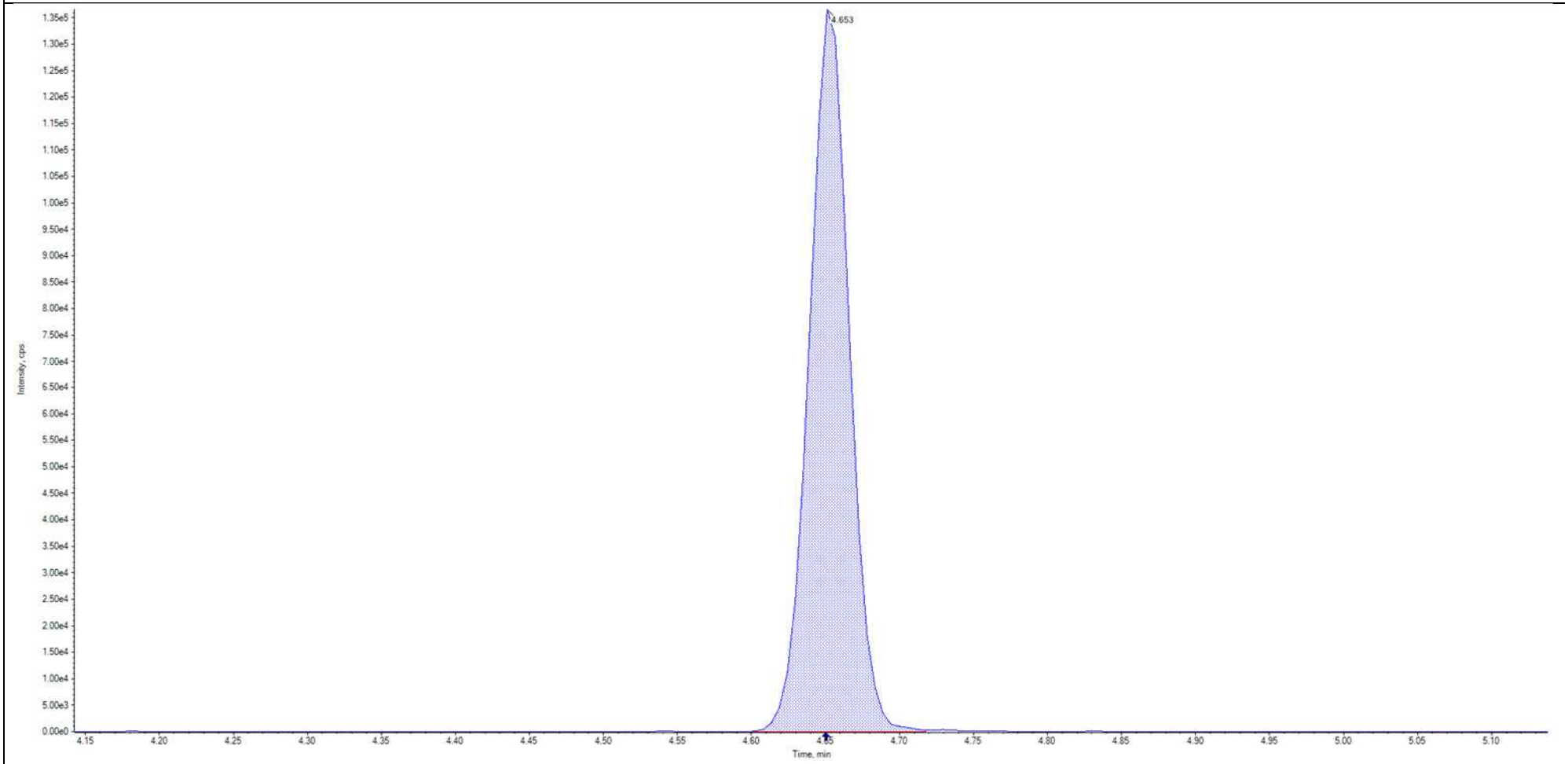


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C7-PFUnA
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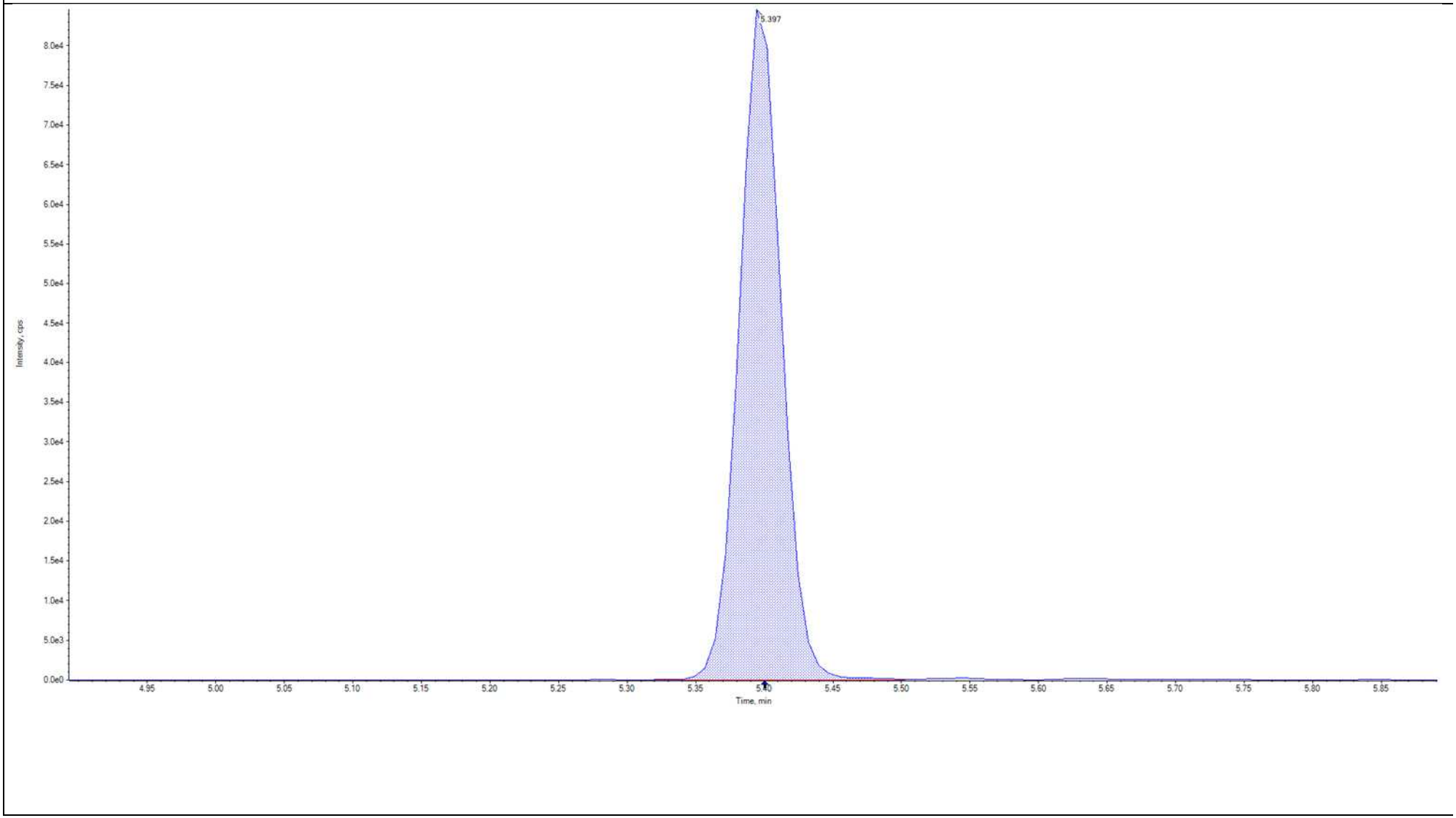


13C2-PFDoA
Sample: WG2038443-4

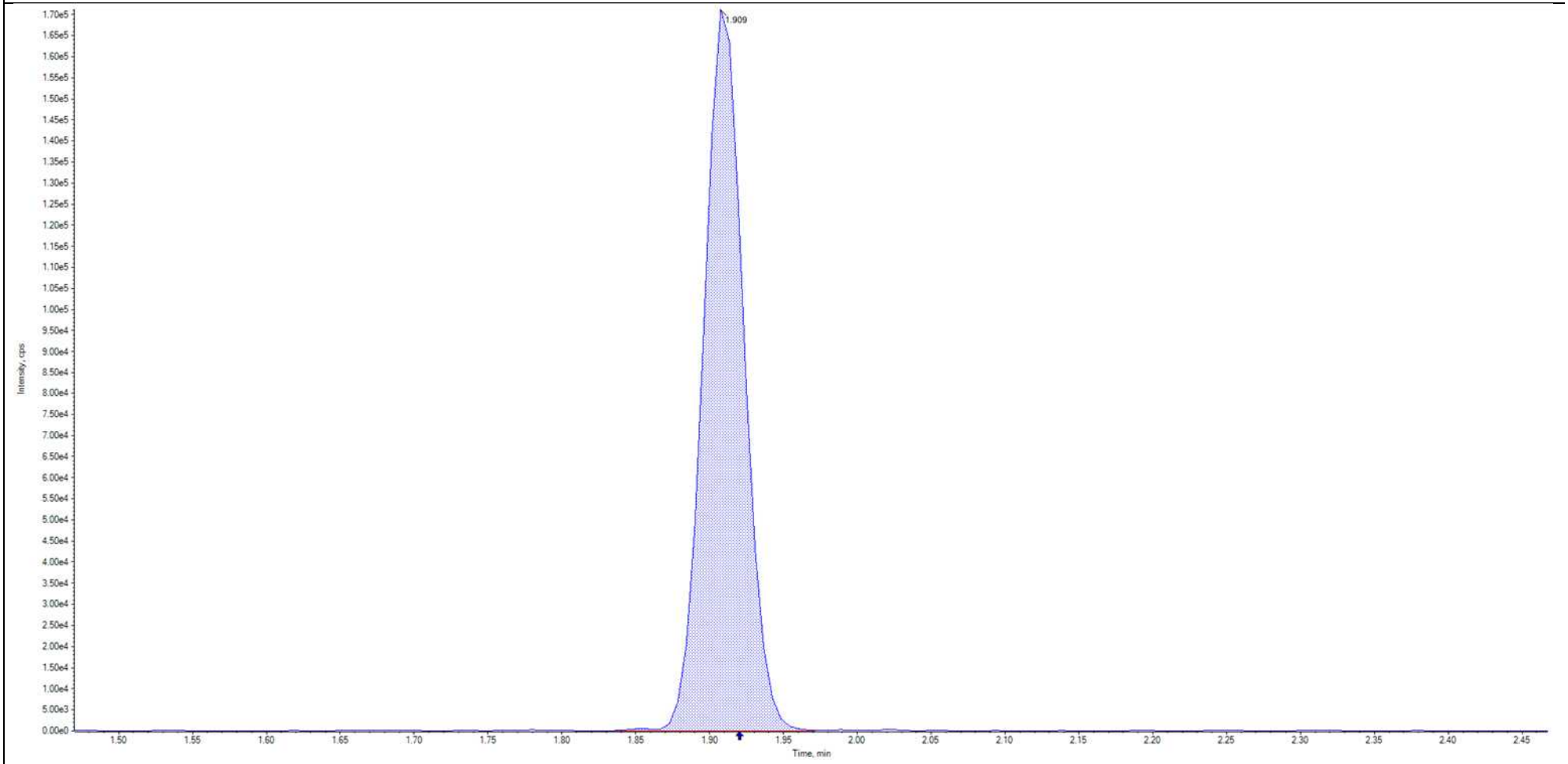


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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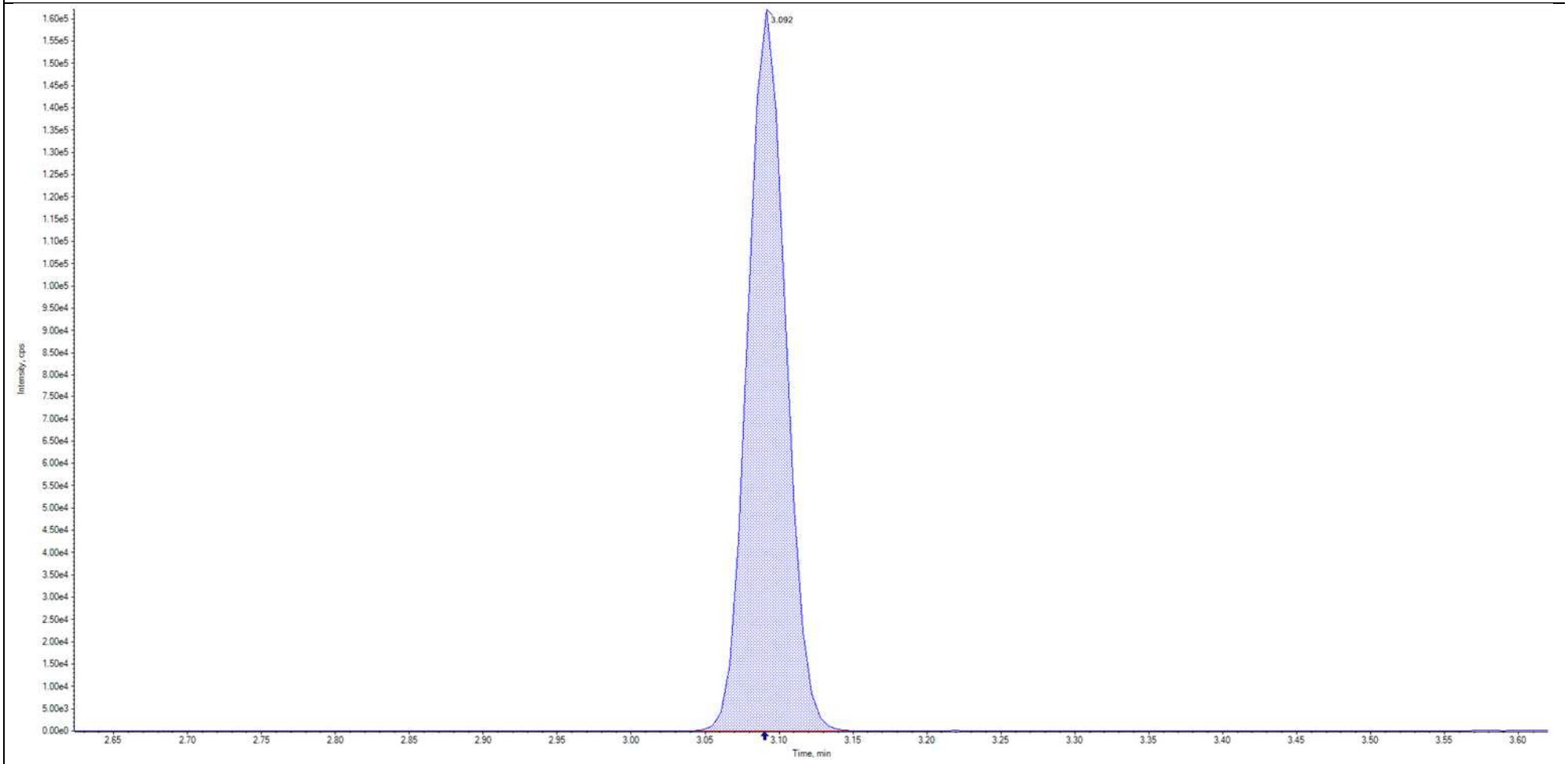
13C2-PFTeDA
Sample: WG2038443-4



13C3-PFBS
Sample: WG2038443-4

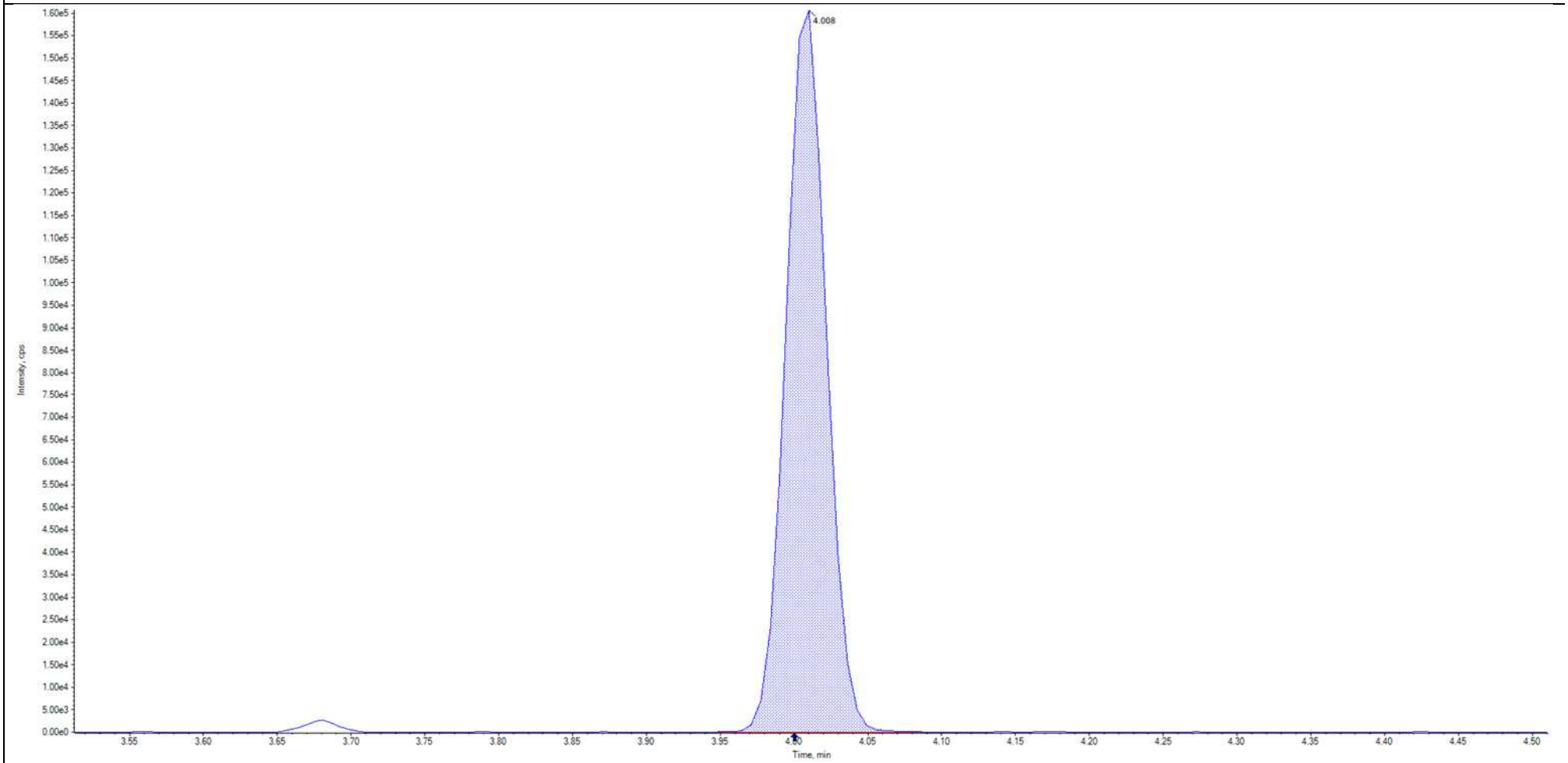


13C3-PFHxS
Sample: WG2038443-4



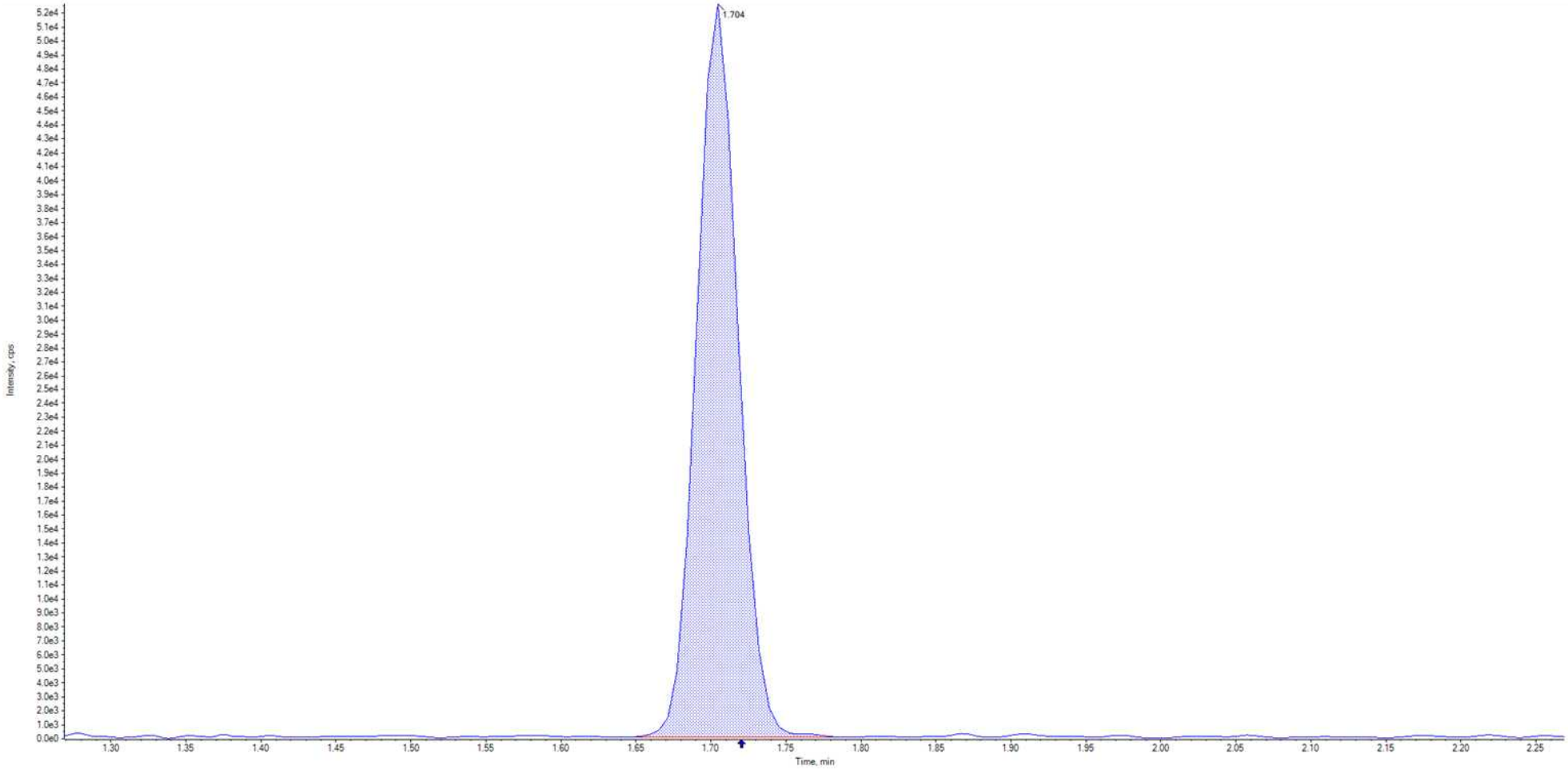
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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13C8-PFOS
Sample: WG2038443-4



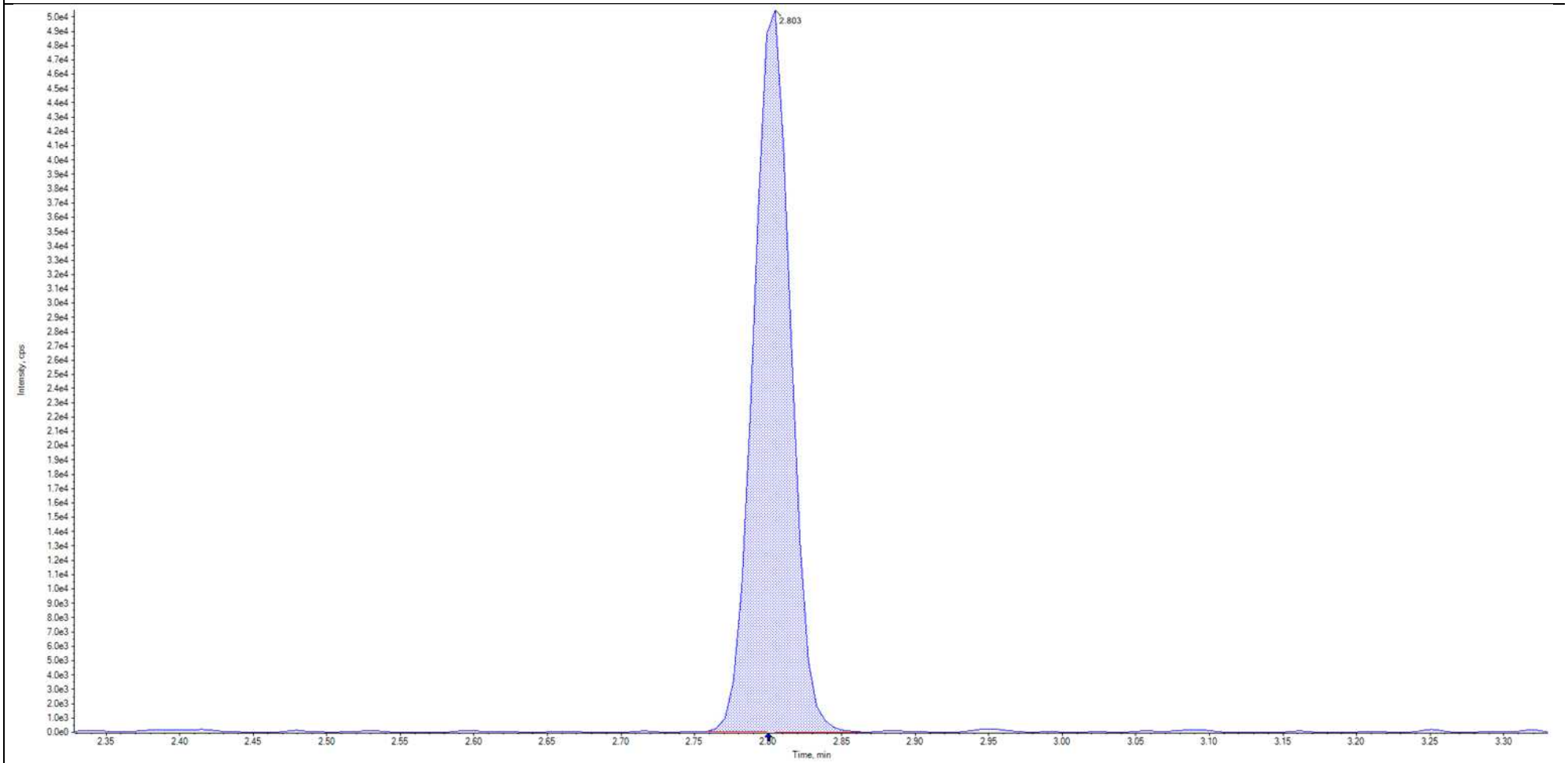
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13C2-4:2FTS
Sample: WG2038443-4

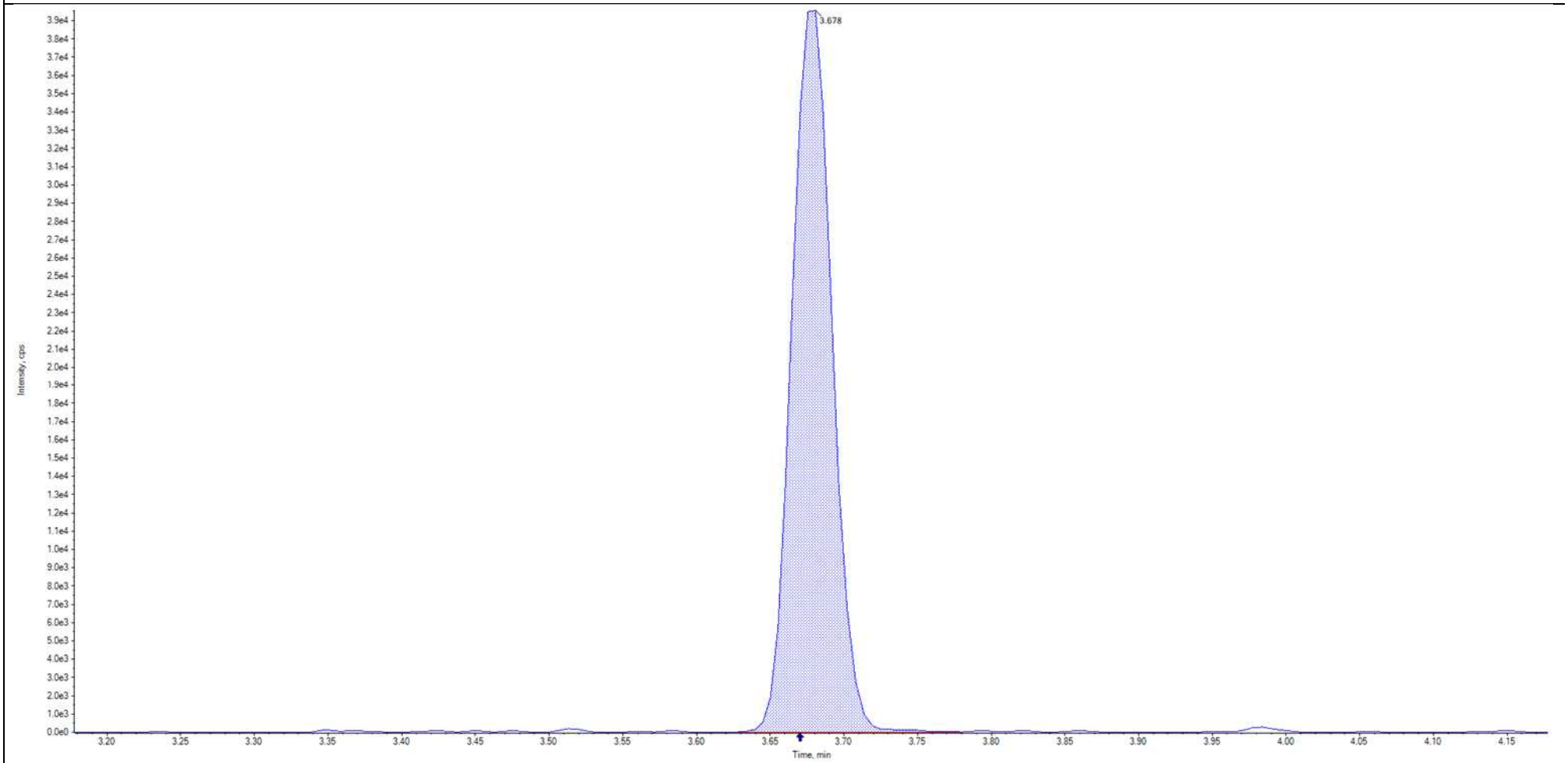


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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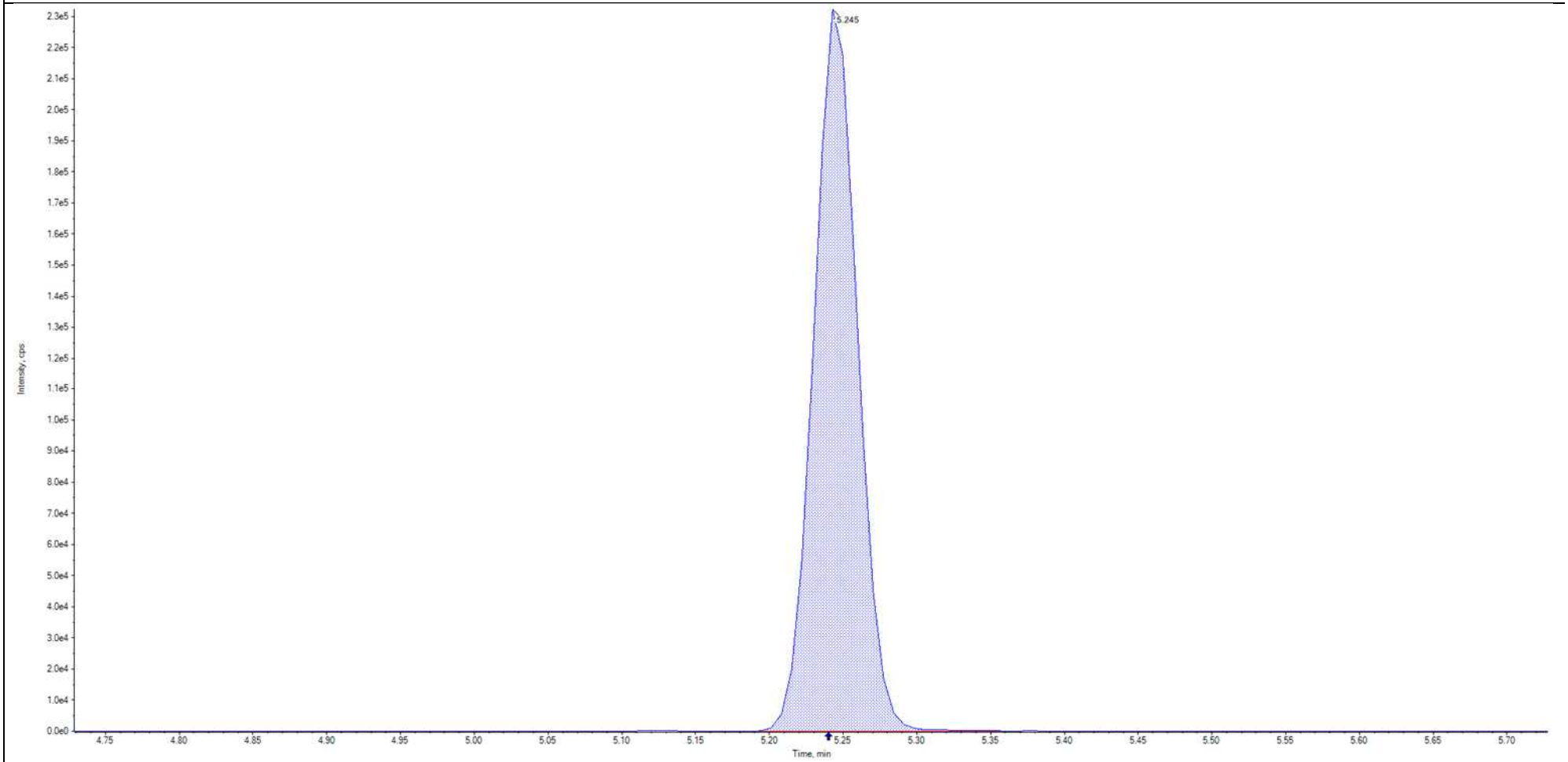
13C2-6:2FTS
Sample: WG2038443-4



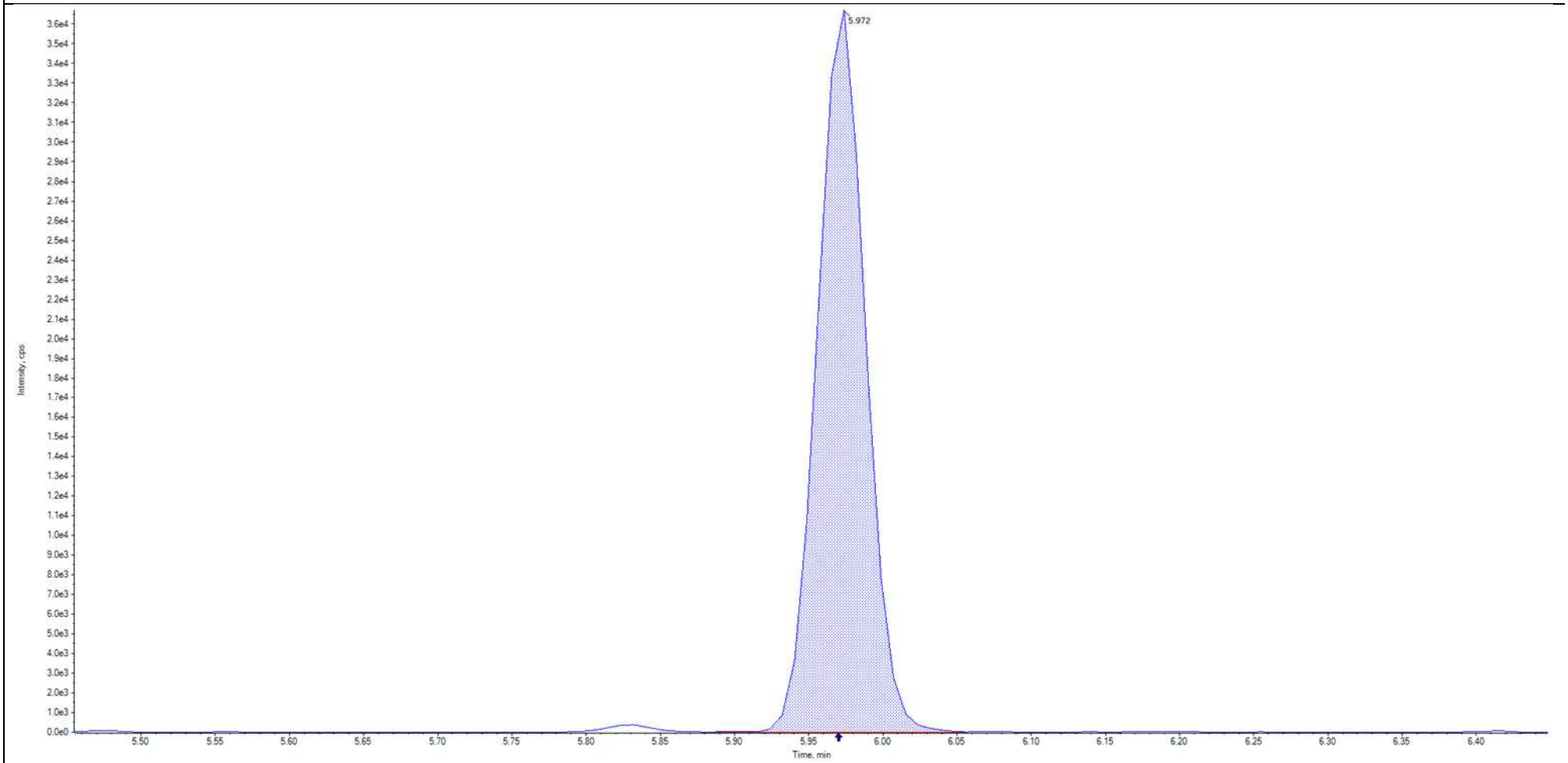
13C2-8:2FTS
Sample: WG2038443-4



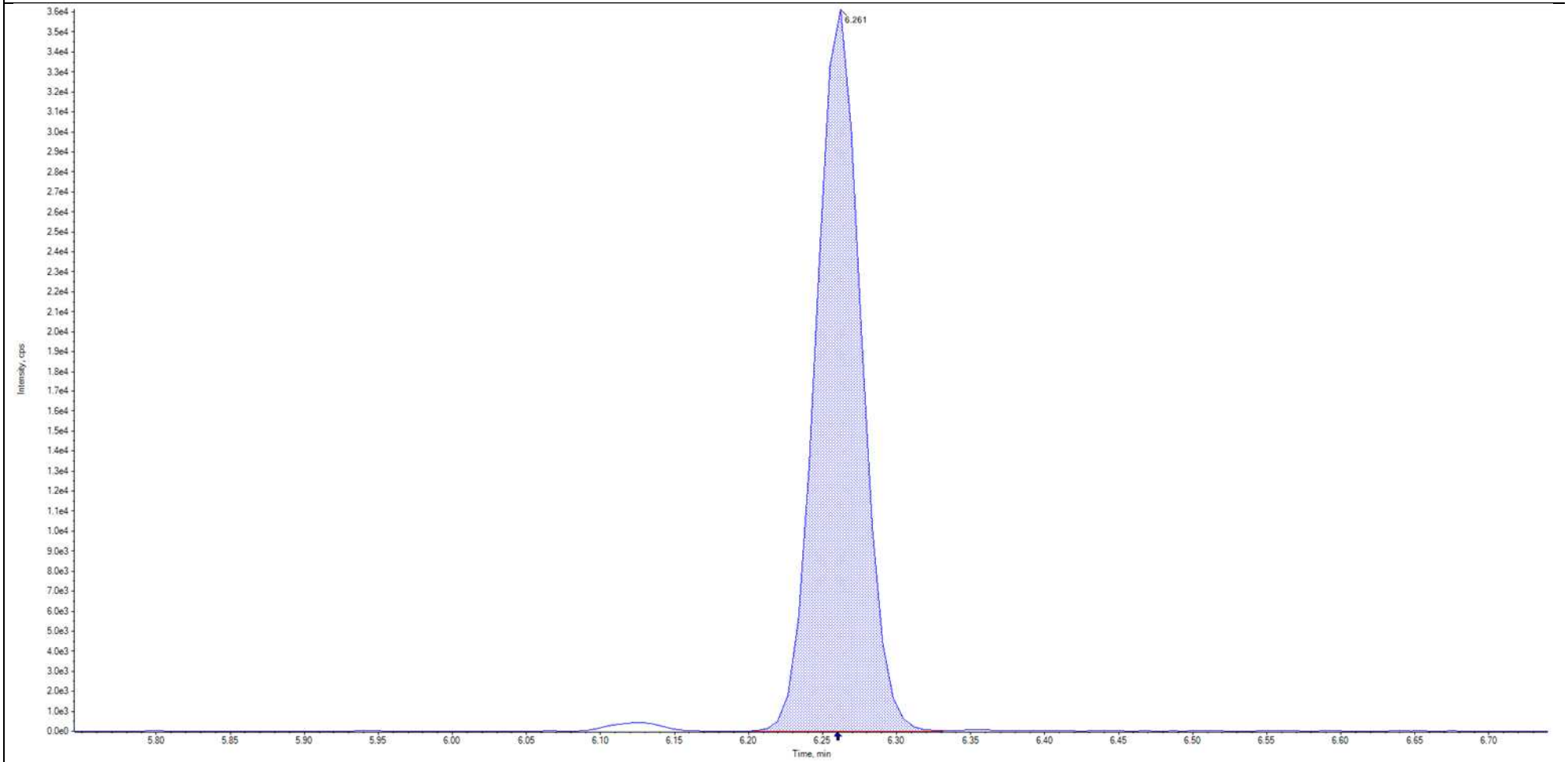
13C8-PFOSA
Sample: WG2038443-4



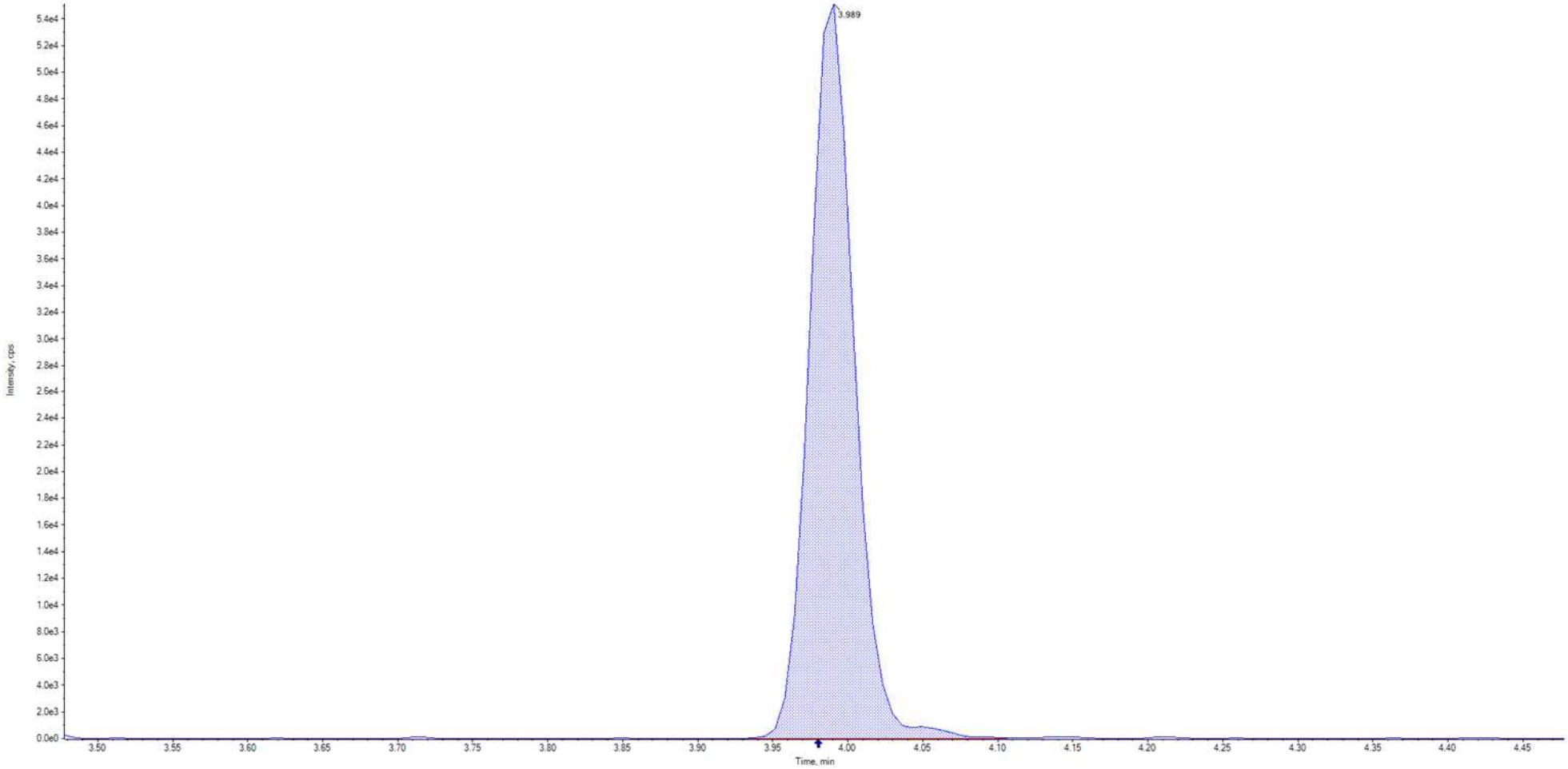
d3-NMeFOSA
Sample: WG2038443-4



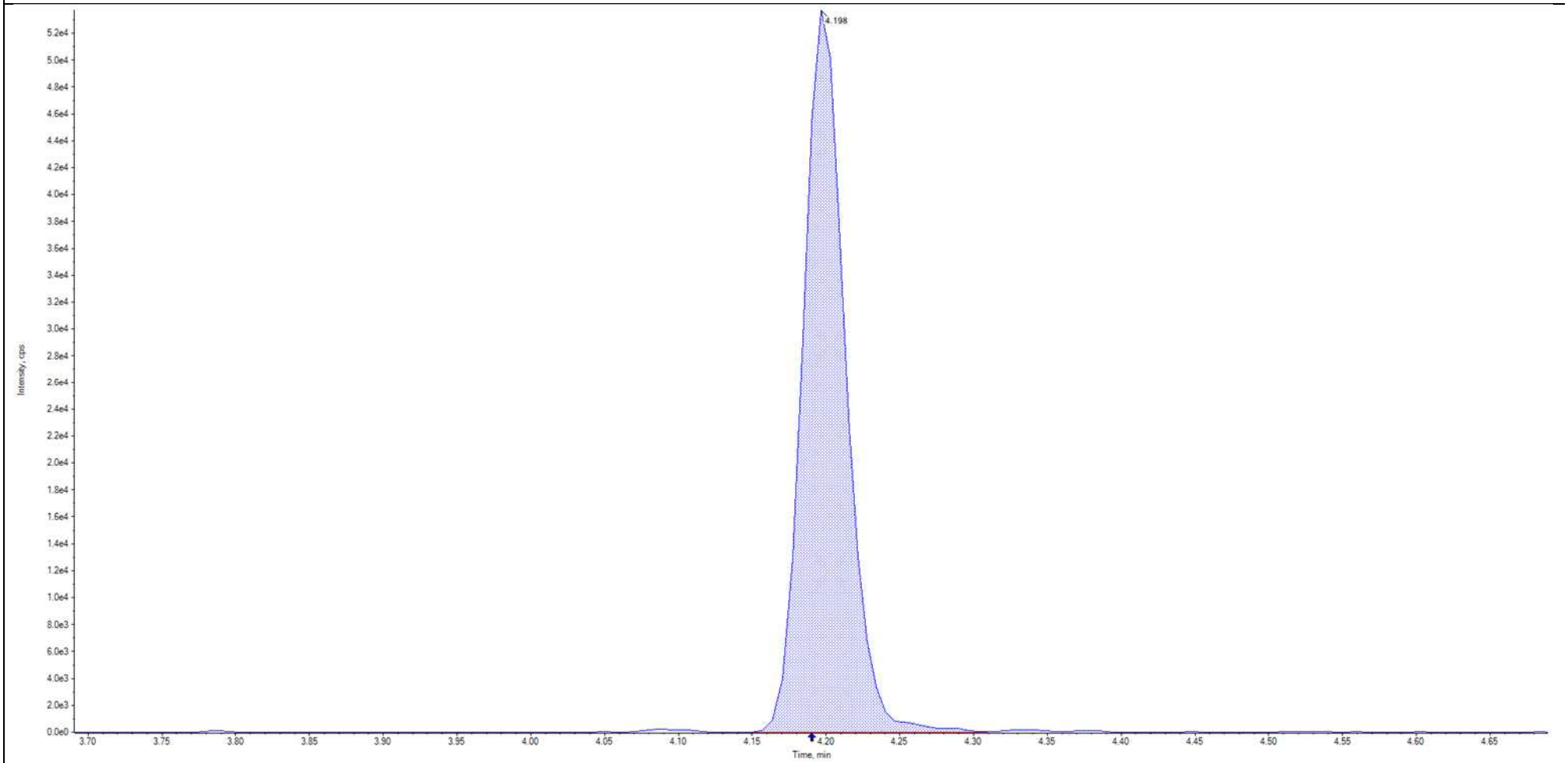
d5-NEtFOSA
Sample: WG2038443-4



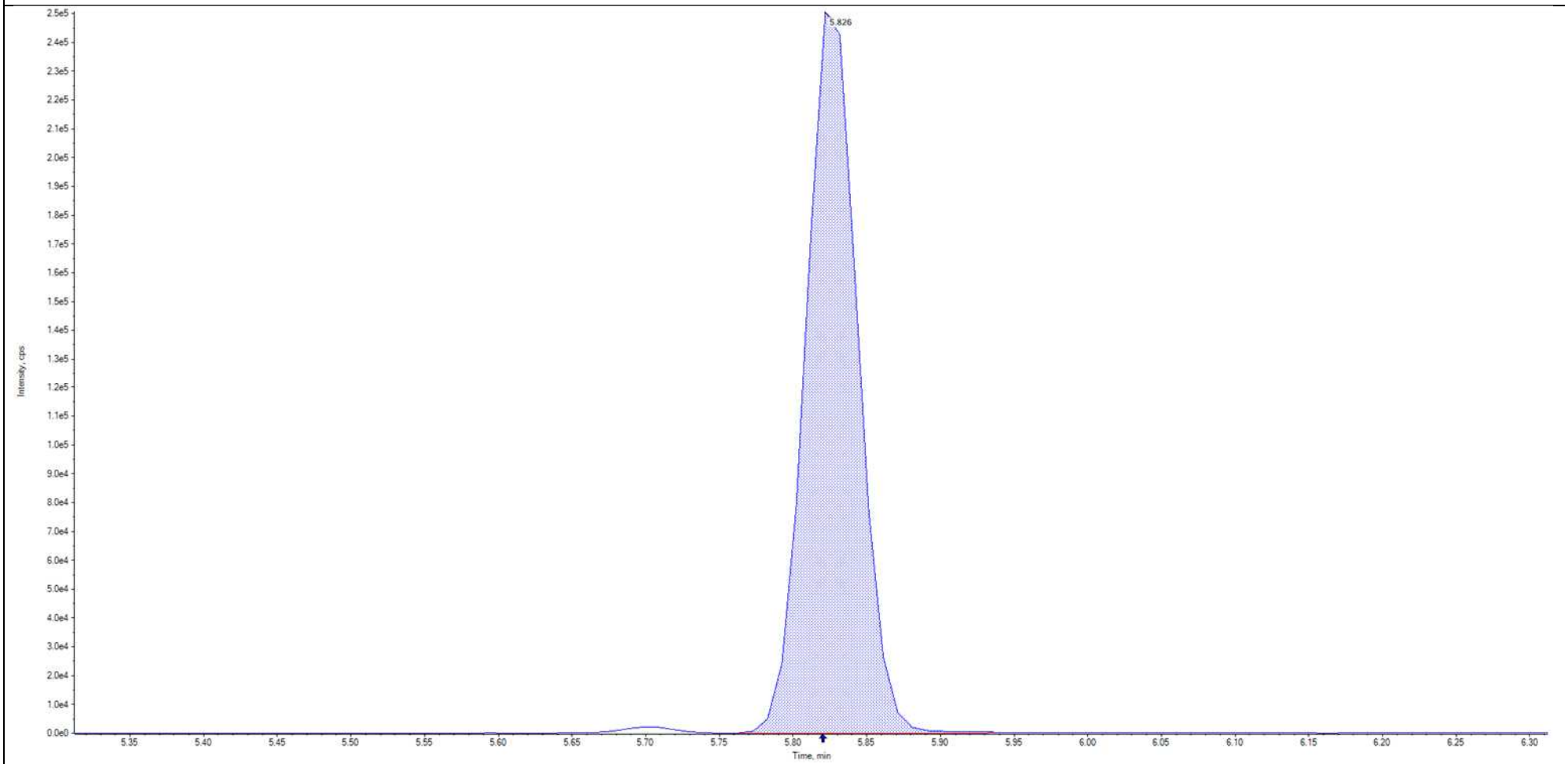
d3-NMeFOSAA
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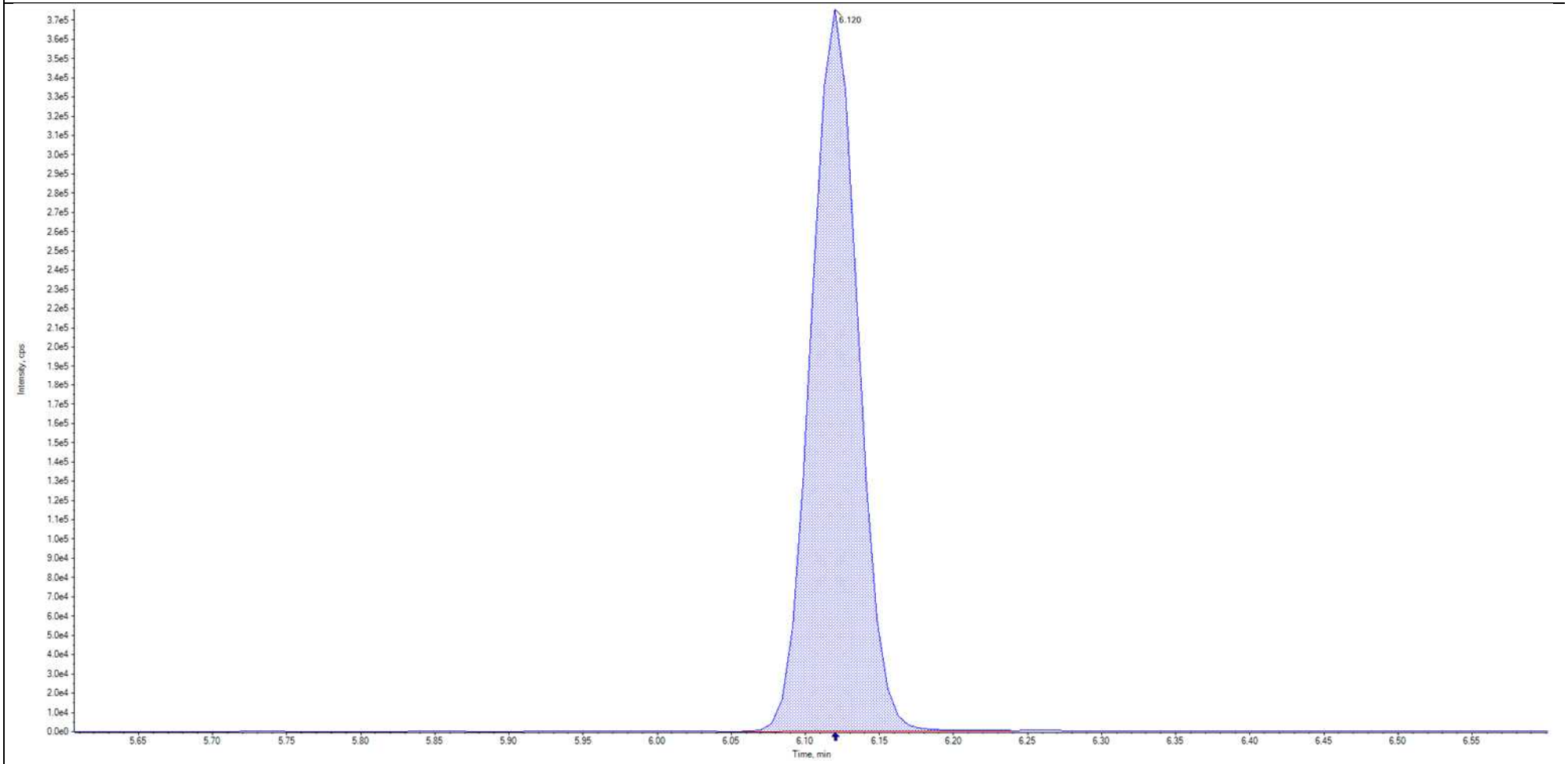
d5-NEtFOSAA
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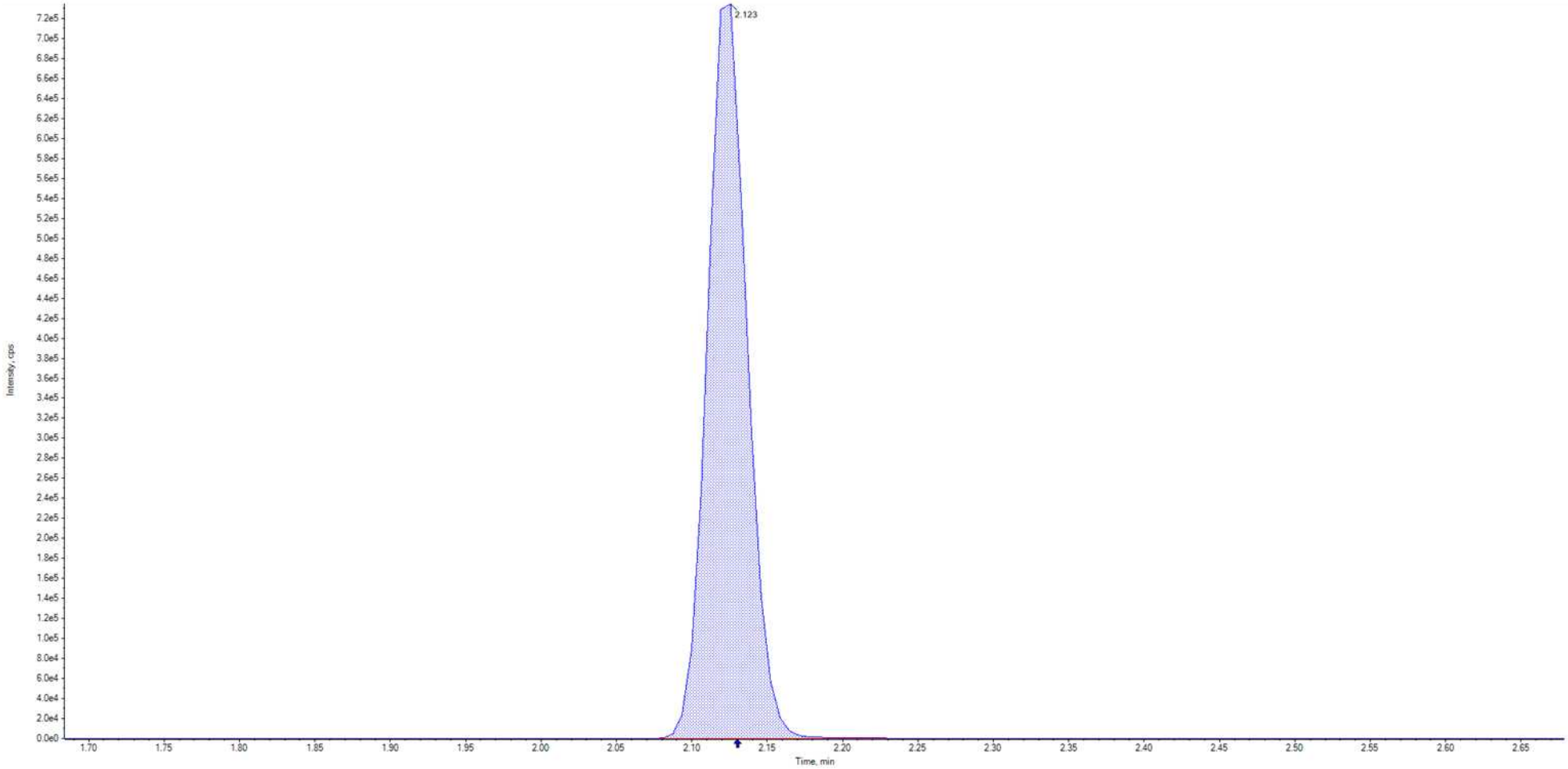
d7-NMeFOSE
Sample: WG2038443-4



d9-NEtFOSE
Sample: WG2038443-4

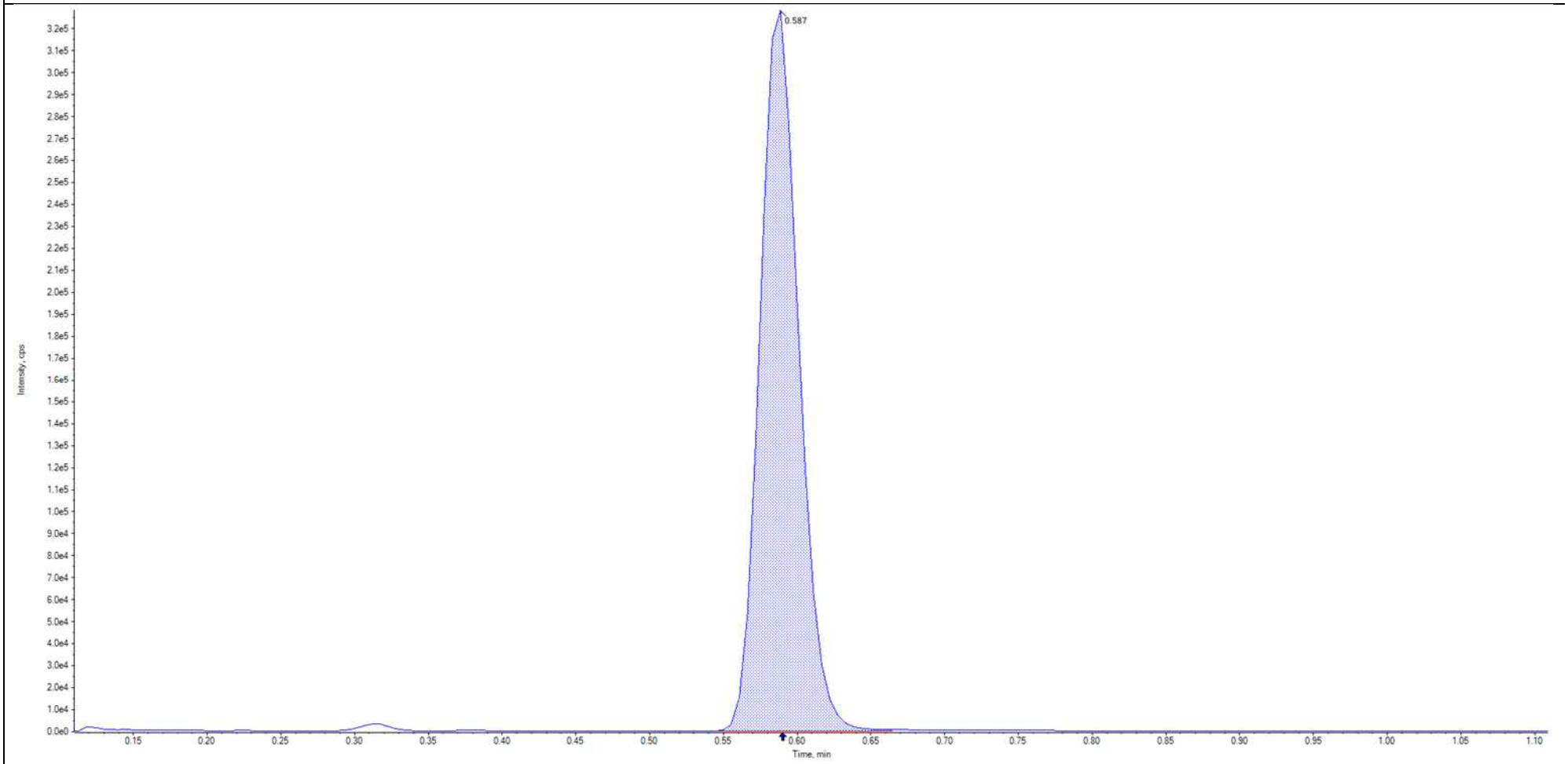


13C3-HFPO-DA
Sample: WG2038443-4

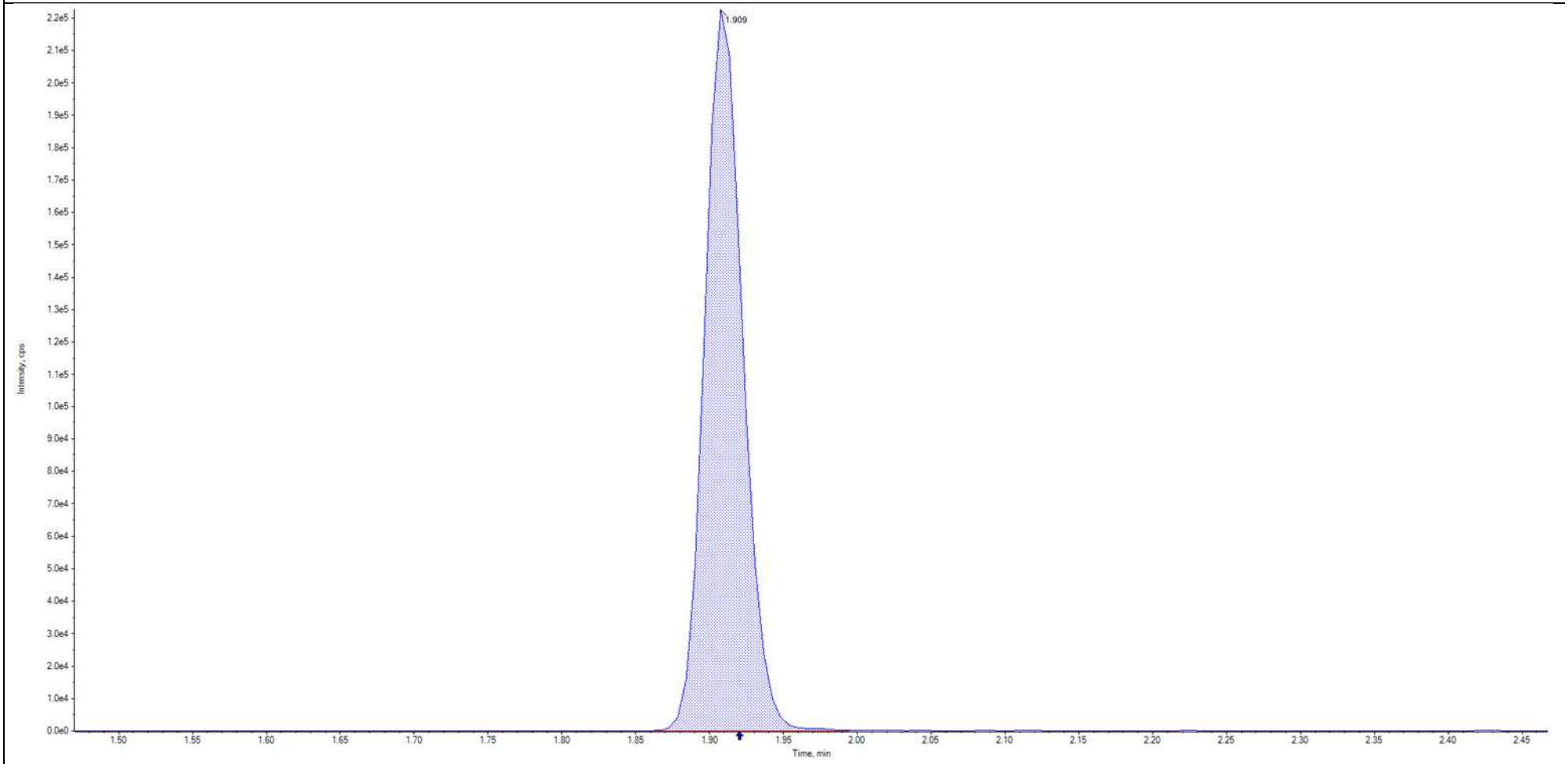


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_55.wiff2_14
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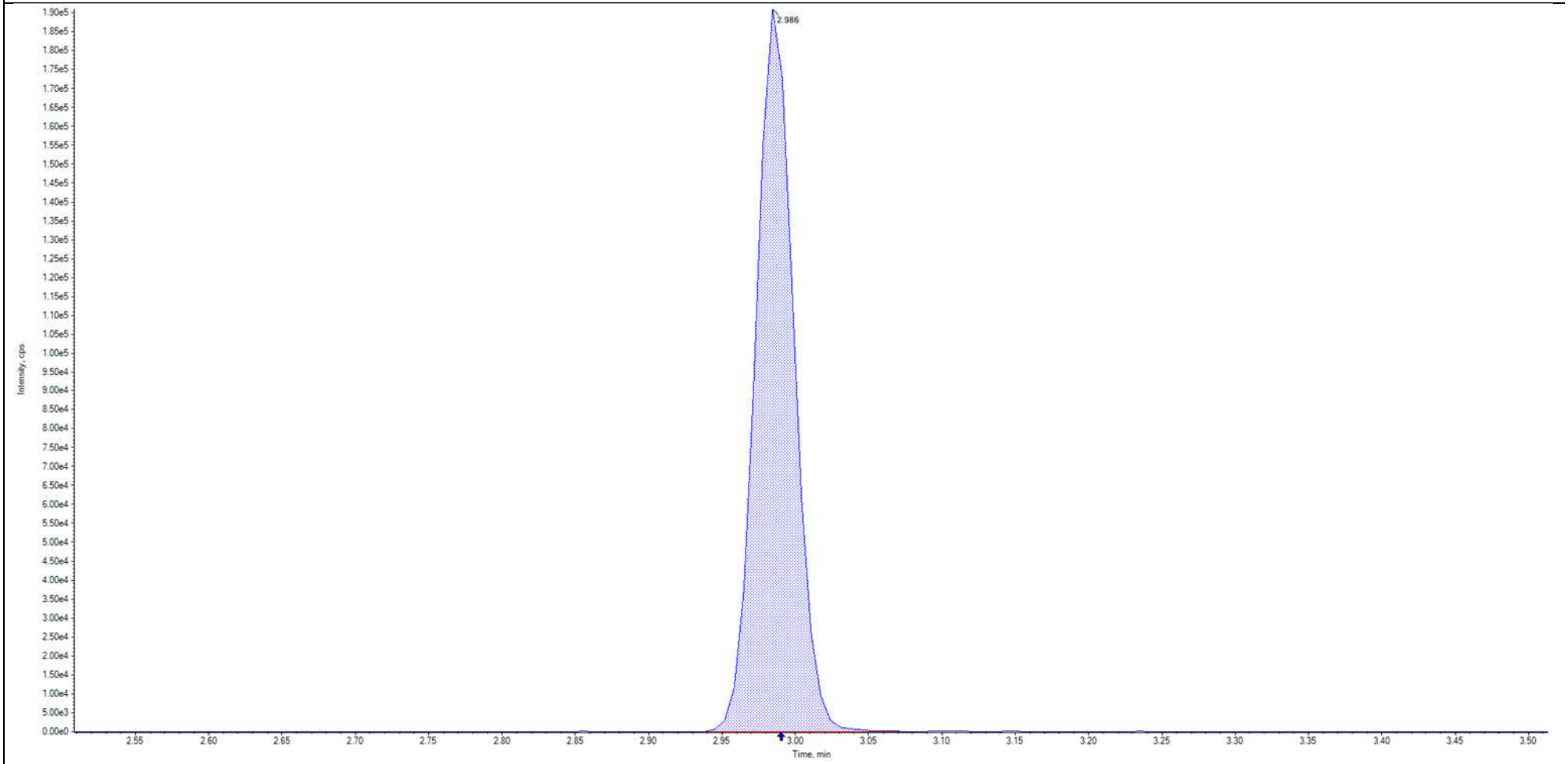
13C3-PFBA
Sample: WG2038443-4



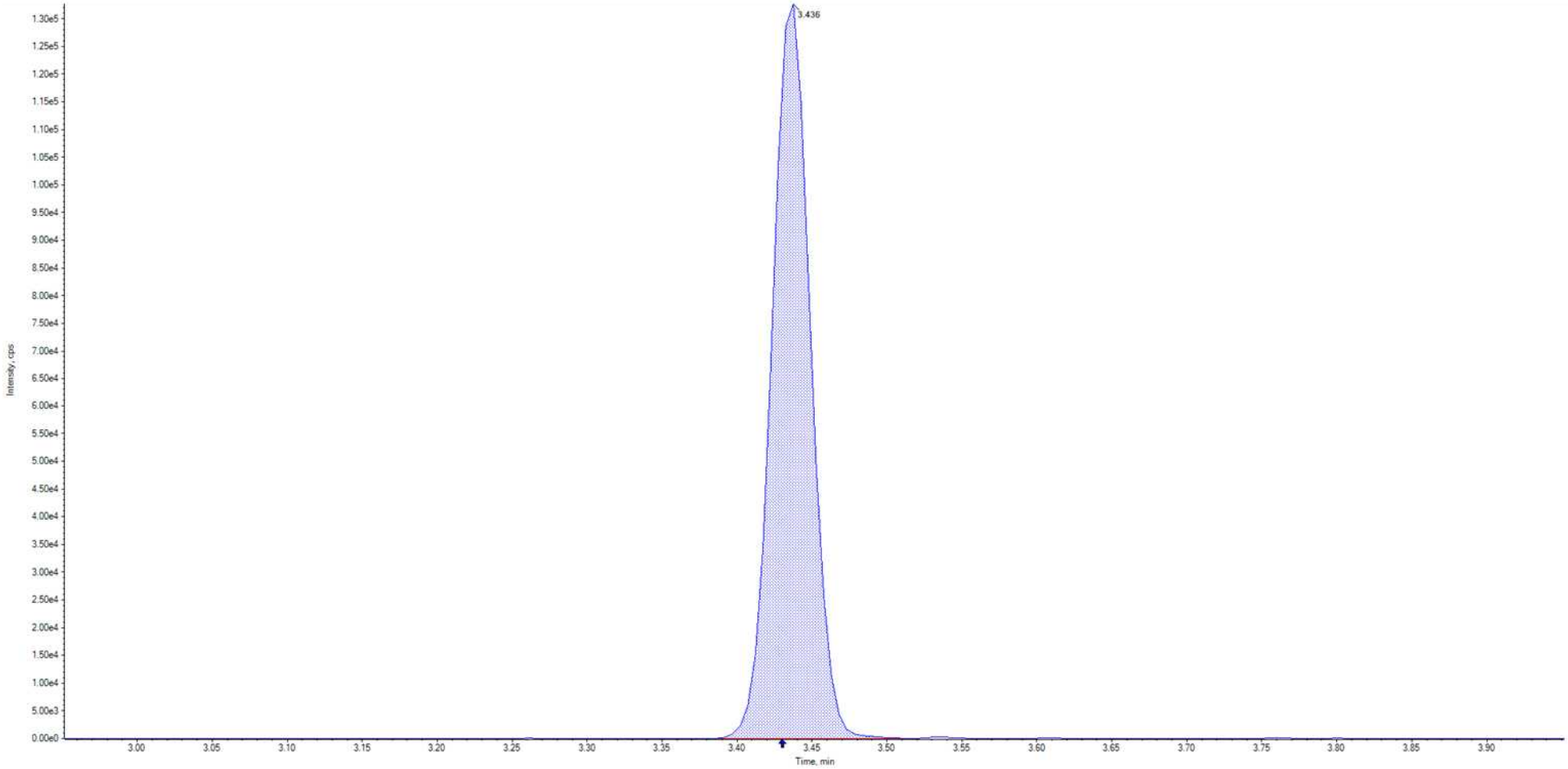
13C2-PFHxA
Sample: WG2038443-4



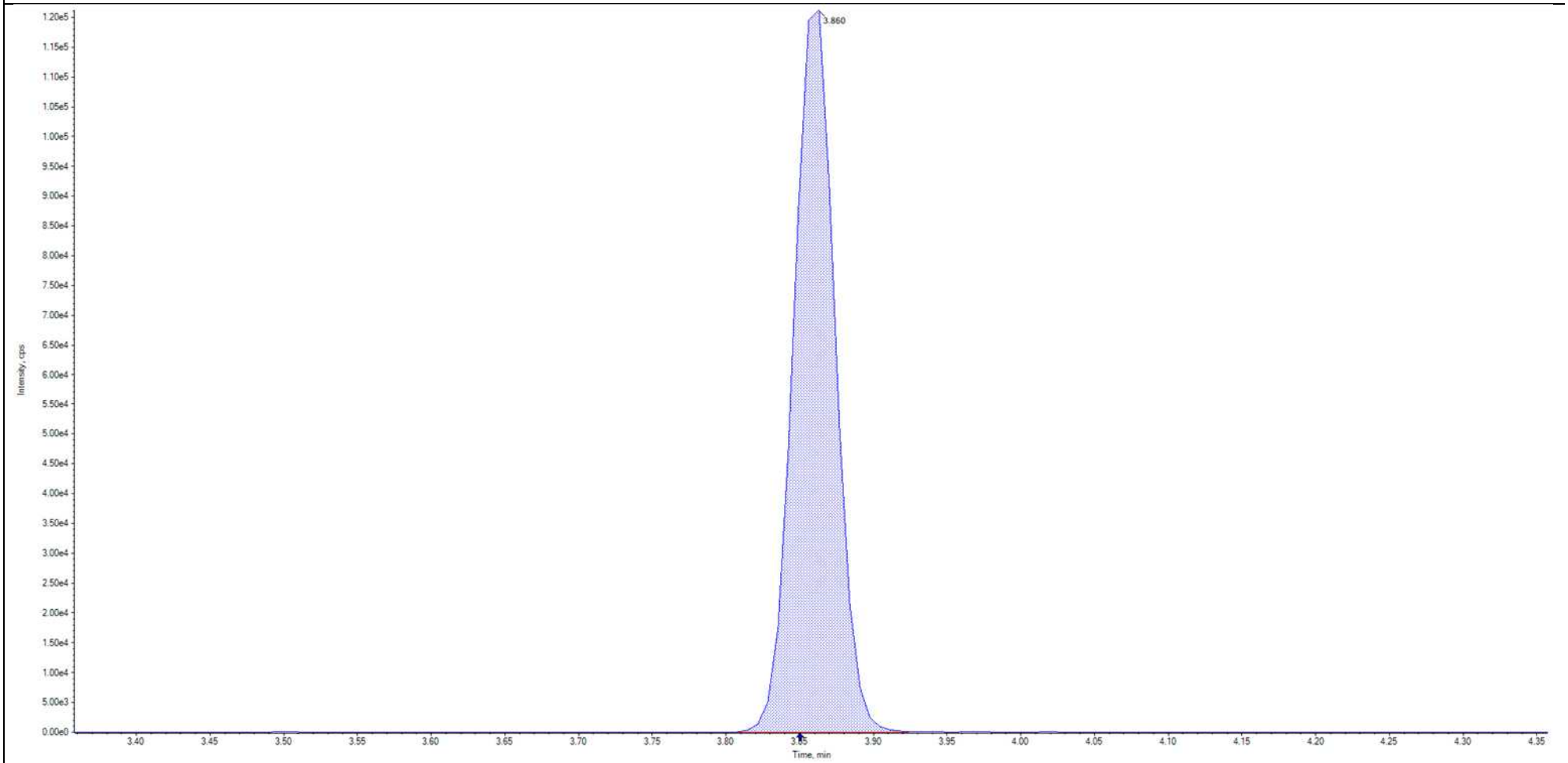
13C4-PFOA
Sample: WG2038443-4



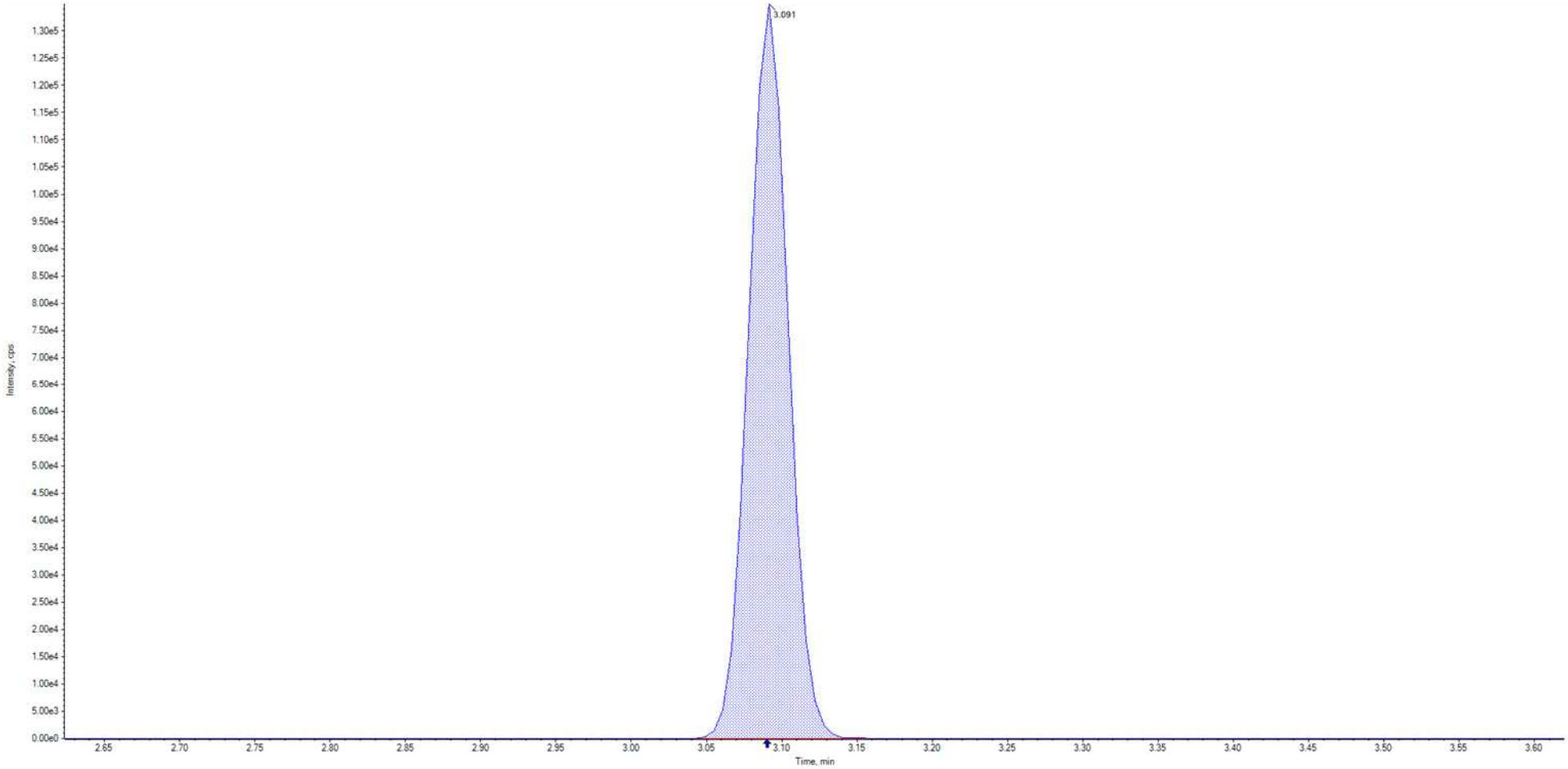
13C5-PFNA
Sample: WG2038443-4



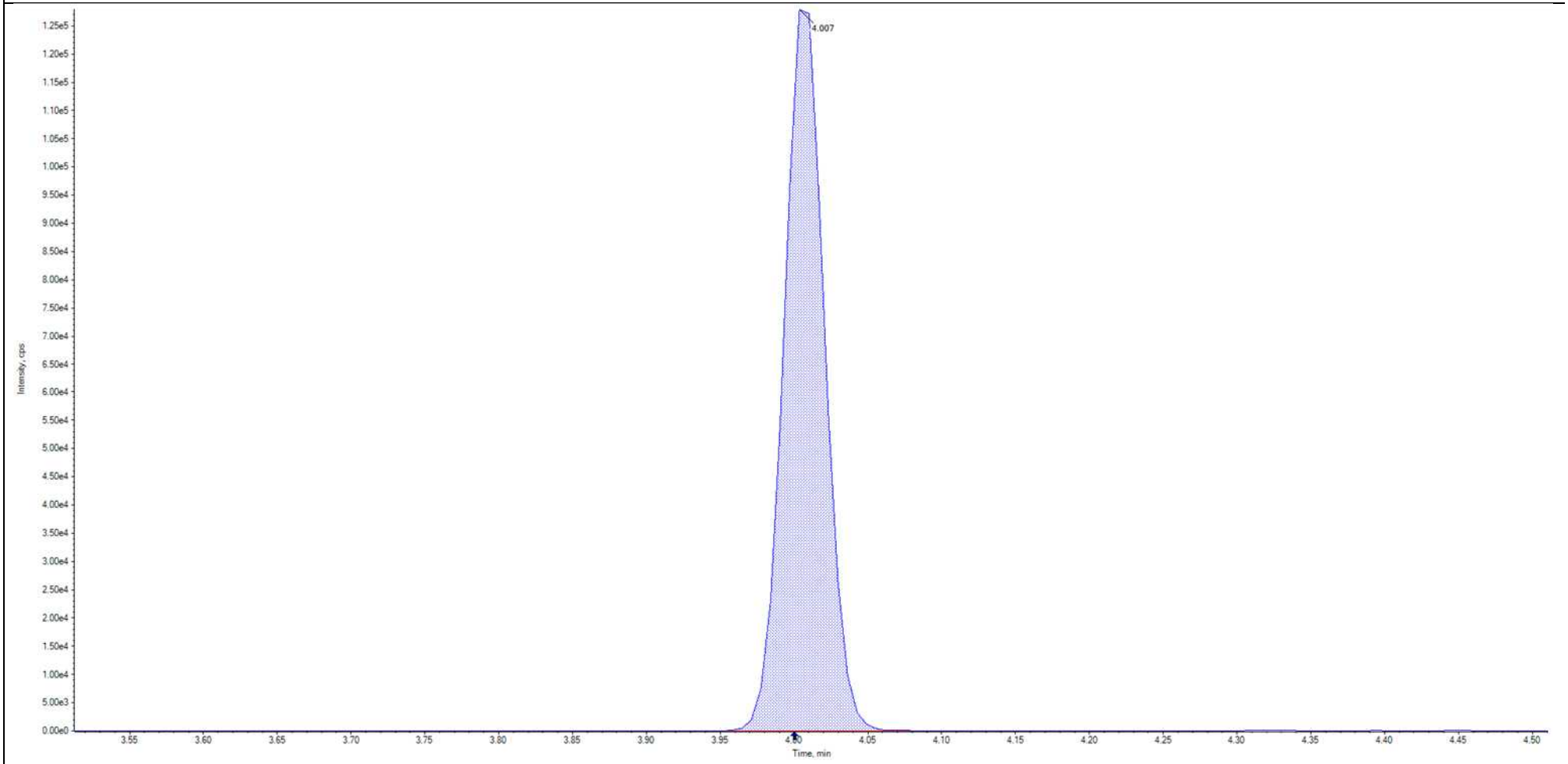
13C2-PFDA
Sample: WG2038443-4



18O2-PFHxS
Sample: WG2038443-4



13C4-PFOS
Sample: WG2038443-4



Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_55.wiff2_14
Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_56.wiff2_15
Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

Method: EPA1633F_250303.qmethod
Calibration: 250303_1633_ICAL

ID: WG2038443-5
Name: SCI09_250311_56.wiff2
Date & Time: 2025-03-11T14:23:56
Description: WG2038851,WG2038443,ICAL22044
Instrument: SCIEX Triple Quad 5500+
User: LCMS09:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.57	213.0 / 169.0	1424201		10.855	N/A	N/A	N/A	108.6
2	PFPeA	2706-90-3	1.15	263.0 / 219.0	945296		6.846	0.007	N/A	N/A	136.9
3	PFPeA_2	2706-90-3	1.15	263.0 / 68.9	6407		6.615	0.007	N/A	N/A	132.3
4	PFHxA	307-24-4	1.91	313.0 / 269.0	680146		3.712	0.087	0.081	Pass	148.5
5	PFHxA_2	307-24-4	1.91	313.0 / 119.0	58889		3.780	0.087	0.081	Pass	151.2
6	PFHpA	375-85-9	2.49	363.1 / 319.0	637197		2.980	0.361	0.373	Pass	119.2
7	PFHpA_2	375-85-9	2.49	363.1 / 169.0	230206		2.727	0.361	0.373	Pass	109.1

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	2.99	413.1 / 369.1	1093292	M5	5.302	0.404	0.424	Pass	212.1
9	PFOA_2	335-67-1	2.99	413.1 / 169.0	441330	M5	5.057	0.404	0.424	Pass	202.3
10	PFNA	375-95-1	3.44	462.8 / 418.9	329630	M5	2.426	0.508	0.493	Pass	97.0
11	PFNA_2	375-95-1	3.44	462.8 / 219.0	167382	M5	2.530	0.508	0.493	Pass	101.2
12	PFDA	335-76-2	3.87	513.1 / 469.1	484382		2.492	0.165	0.188	Pass	99.7
13	PFDA_2	335-76-2	3.87	513.1 / 219.0	79967		2.234	0.165	0.188	Pass	89.4
14	PFUnA	2058-94-8	4.27	563.1 / 519.1	425892		2.280	0.153	0.146	Pass	91.2
15	PFUnA_2	2058-94-8	4.27	563.1 / 269.0	65186		2.428	0.153	0.146	Pass	97.1
16	PFDoA	307-55-1	4.66	613.1 / 569.1	487503		2.410	0.128	0.142	Pass	96.4
17	PFDoA_2	307-55-1	4.66	613.1 / 319.0	62249		2.233	0.128	0.142	Pass	89.3
18	PFTrDA	72629-94-8	5.04	663.1 / 619.1	437927		2.464	0.156	0.152	Pass	98.6
19	PFTrDA_2	72629-94-8	5.04	663.1 / 169.0	68216		2.499	0.156	0.152	Pass	100.0
20	PFTeDA	376-06-7	5.41	713.1 / 669.1	387957		2.343	0.165	0.154	Pass	93.7
21	PFTeDA_2	376-06-7	5.41	713.1 / 169.0	63894		2.364	0.165	0.154	Pass	94.5
22	PFBS	375-73-5	1.91	299.1 / 80.1	510592		3.312	0.370	0.374	Pass	149.2

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.91	299.1 / 99.1	188732		3.511	0.370	0.374	Pass	149.4
24	PFPeS	2706-91-4	2.56	349.1 / 80.1	366719		2.539	0.296	0.314	Pass	108.0
25	PFPeS_2	2706-91-4	2.56	349.1 / 99.1	108470		2.392	0.296	0.314	Pass	101.8
26	PFHxS	355-46-4	3.10	399.1 / 80.1	356242	M5	2.701	0.291	0.306	Pass	118.5
27	PFHxS_2	355-46-4	3.10	399.1 / 99.1	103547	M5	2.711	0.291	0.306	Pass	118.9
28	PFHpS	375-92-8	3.57	449.1 / 80.1	329825		2.812	0.297	0.316	Pass	118.2
29	PFHpS_2	375-92-8	3.57	449.1 / 99.1	98097		2.734	0.297	0.316	Pass	114.9
30	PFOS	1763-23-1	4.01	499.1 / 80.1	396926	M5	2.783	0.246	0.244	Pass	119.9
31	PFOS_2	1763-23-1	4.01	499.1 / 99.1	97699	M5	2.726	0.246	0.244	Pass	117.5
32	PFNS	68259-12-1	4.43	549.1 / 80.1	237480		2.445	0.295	0.294	Pass	101.9
33	PFNS_2	68259-12-1	4.43	549.1 / 99.1	69950		2.520	0.295	0.294	Pass	105.0
34	PFDS	335-77-3	4.82	599.1 / 80.1	219385		2.299	0.290	0.290	Pass	95.4
35	PFDS_2	335-77-3	4.82	599.1 / 99.1	63682		2.363	0.290	0.290	Pass	98.1
36	PFDoS	79780-39-5	5.56	699.2 / 80.1	216650		2.492	0.257	0.256	Pass	103.0
37	PFDoS_2	79780-39-5	5.56	699.2 / 99.1	55627		2.483	0.257	0.256	Pass	102.6

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	1.70	327.1 / 307.1	381258		10.498	0.641	0.650	Pass	112.0
39	4:2FTS_2	757124-72-4	1.70	327.1 / 81.1	244472		10.430	0.641	0.650	Pass	111.3
40	6:2FTS	27619-97-2	2.81	427.2 / 407.2	306099		9.254	0.683	0.620	Pass	97.3
41	6:2FTS_2	27619-97-2	2.81	427.2 / 81.1	209102		9.863	0.683	0.620	Pass	103.7
42	8:2FTS	39108-34-4	3.68	527.2 / 507.2	241375		10.740	0.623	0.676	Pass	111.9
43	8:2FTS_2	39108-34-4	3.68	527.2 / 81.1	150429		9.723	0.623	0.676	Pass	101.3
44	PFOSA	754-91-6	5.25	498.1 / 78.1	371077	M5	2.450	0.023	0.026	Pass	98.0
45	PFOSA_2	754-91-6	5.25	498.1 / 478.0	8562	M5	2.188	0.023	0.026	Pass	87.5
46	NMeFOSA	31506-32-8	5.98	512.2 / 219.0	77575	M5	2.097	1.364	1.377	Pass	83.9
47	NMeFOSA_2	31506-32-8	5.94	512.2 / 169.0	105817		2.058	1.364	1.377	Pass	82.3
48	NEtFOSA	4151-50-2	6.28	526.2 / 219.0	74737	M5	2.031	1.296	1.292	Pass	81.2
49	NEtFOSA_2	4151-50-2	6.24	526.2 / 169.0	96837		2.109	1.296	1.292	Pass	84.4
50	NMeFOSAA	2355-31-9	3.99	570.2 / 419.1	47903	M5	2.370	0.748	0.697	Pass	94.8
51	NMeFOSAA_2	2355-31-9	3.99	570.2 / 483.0	35854		2.469	0.748	0.697	Pass	98.8
52	NEtFOSAA	2991-50-6	4.21	584.2 / 419.1	51041	M5	2.118	0.598	0.557	Pass	84.7

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	4.21	584.2 / 526.2	30506	M5	2.297	0.598	0.557	Pass	91.9
54	NMeFOSE	24448-09-7	5.85	616.1 / 58.9	1232579	M5	22.305	N/A	N/A	N/A	89.2
55	NEtFOSE	1691-99-2	6.15	630.0 / 58.9	1691037	M5	21.940	N/A	N/A	N/A	87.8
56	HFPO-DA	13252-13-6	2.12	285.0 / 169.0	1450020		10.113	0.554	0.501	Pass	101.1
57	HFPO-DA_2	13252-13-6	2.12	285.0 / 184.9	802724		10.619	0.554	0.501	Pass	106.2
58	ADONA	919005-14-4	2.68	376.9 / 251.0	2856145		9.064	0.655	0.691	Pass	95.9
59	ADONA_2	919005-14-4	2.68	376.9 / 84.8	1871493		8.964	0.655	0.691	Pass	94.9
60	9Cl-PF3ONS	756426-58-1	4.30	530.8 / 351.1	2473652		10.176	0.335	0.332	Pass	109.1
61	9Cl-PF3ONS_2	756426-58-1	4.30	532.8 / 353.0	829358		10.265	0.335	0.332	Pass	110.0
62	11Cl-PF3OUdS	763051-92-9	5.08	630.9 / 451.0	1866117		9.078	0.319	0.322	Pass	96.3
63	11Cl-PF3OUdS_2	763051-92-9	5.08	632.9 / 452.9	594426		9.009	0.319	0.322	Pass	95.5
64	3:3FTCA	356-02-5	1.63	241.1 / 177.1	146003		13.693	0.969	1.010	Pass	109.5
65	3:3FTCA_2	356-02-5	1.63	241.1 / 117.0	141463		12.218	0.969	1.010	Pass	97.8
66	5:3FTCA	914637-49-3	3.04	341.1 / 237.1	3007968		65.646	0.996	1.017	Pass	105.0
67	5:3FTCA_2	914637-49-3	3.04	341.1 / 217.0	2997125		64.918	0.996	1.017	Pass	103.9

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	4.07	441.1 / 316.9	2163743		58.666	1.408	1.343	Pass	93.9
69	7:3FTCA_2	812-70-4	4.07	441.1 / 337.1	3047056		62.497	1.408	1.343	Pass	100.0
70	PFEESA	113507-82-7	2.22	315.1 / 135.0	2063288		4.333	0.084	0.081	Pass	97.2
71	PFEESA_2	113507-82-7	2.21	315.1 / 82.9	173881		4.439	0.084	0.081	Pass	99.5
72	PFMPA	377-73-1	0.73	229.0 / 85.0	731745		5.332	N/A	N/A	N/A	106.6
73	PFMBA	863090-89-5	1.42	279.0 / 85.0	827548		5.236	N/A	N/A	N/A	104.7
74	NFDHA	151772-58-6	1.83	295.0 / 201.0	612851		4.917	0.741	0.681	Pass	98.3
75	NFDHA_2	151772-58-6	1.83	295.0 / 84.9	453934		5.145	0.741	0.681	Pass	102.9
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.680	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.680	N/A	N/A
78	13C2D4-4:2FTS	Surr	N/A	333.2 / 312.1	N/A		N/A	N/A	N/A	N/A	N/A
79	13C2-PFOA	Surr	N/A	415.0 / 370.0	N/A		N/A	N/A	N/A	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.57	217.0 / 172.0	1468073		10.430	NA	NA	NA	104.3

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.14	268.0 / 223.0	719455		4.984	NA	NA	NA	99.7
	13C5-PFHxA	EIS	1.90	318.0 / 273.0	357733		2.636	NA	NA	NA	105.4
	13C4-PFHpA	EIS	2.49	367.0 / 322.0	368202		2.812	NA	NA	NA	112.5
	13C8-PFOA	EIS	2.99	420.8 / 376.0	603135		2.468	NA	NA	NA	98.7
	13C9-PFNA	EIS	3.44	472.0 / 427.0	251917		1.195	NA	NA	NA	95.6
	13C6-PFDA	EIS	3.86	519.0 / 474.0	274867		1.354	NA	NA	NA	108.3
	13C7-PFUnA	EIS	4.26	570.0 / 525.0	275739		1.231	NA	NA	NA	98.4

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.66	615.1 / 570.0	267610		1.187	NA	NA	NA	95.0
	13C2-PFTeDA	EIS	5.40	715.1 / 670.1	182110		1.246	NA	NA	NA	99.7
	13C3-PFBS	EIS	1.90	302.1 / 80.1	338131		2.336	NA	NA	NA	100.2
	13C3-PFHxS	EIS	3.09	402.1 / 80.1	301847		2.346	NA	NA	NA	99.0
	13C8-PFOS	EIS	4.01	507.1 / 80.1	299219		2.294	NA	NA	NA	95.6
	13C2-4:2FTS	EIS	1.69	329.1 / 81.1	110660		5.183	NA	NA	NA	110.5
	13C2-6:2FTS	EIS	2.80	429.2 / 81.1	97878		5.325	NA	NA	NA	111.9
	13C2-8:2FTS	EIS	3.68	529.2 / 81.1	81074		4.703	NA	NA	NA	98.0

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.25	506.1 / 78.1	472826		2.283	NA	NA	NA	91.3
d3-NMeFOSA	EIS	5.97	515.2 / 219.0	82512		2.206	NA	NA	NA	88.3
d5-NEtFOSA	EIS	6.26	531.2 / 219.0	75519		2.221	NA	NA	NA	88.8
d3-NMeFOSAA	EIS	3.99	573.2 / 419.1	111183		4.364	NA	NA	NA	87.3
d5-NEtFOSAA	EIS	4.20	589.3 / 419.1	111153		5.350	NA	NA	NA	107.0
d7-NMeFOSE	EIS	5.83	623.2 / 58.9	609817		22.671	NA	NA	NA	90.7
d9-NEtFOSE	EIS	6.12	639.2 / 58.9	815916		22.612	NA	NA	NA	90.4

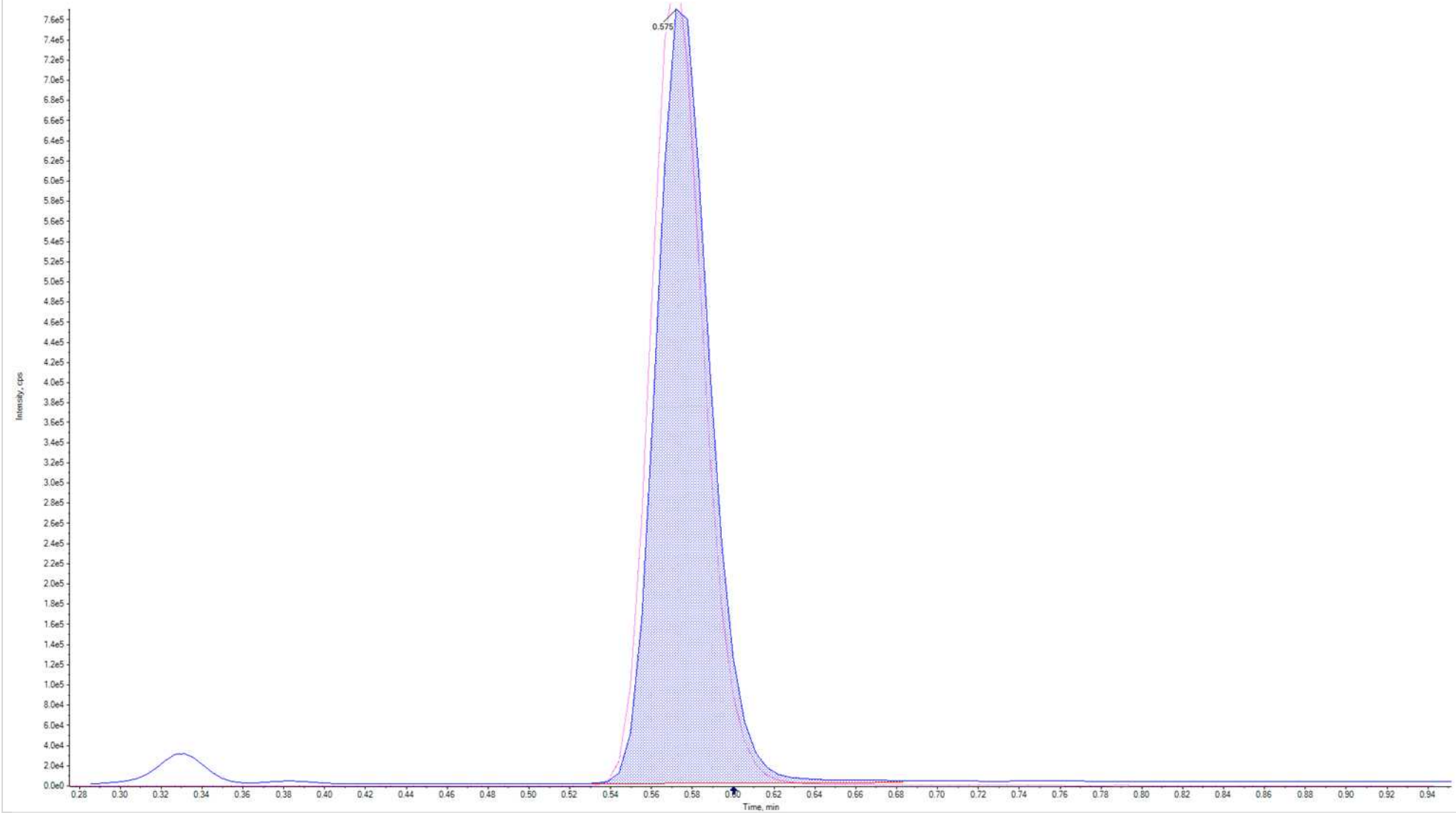
	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.12	287.0 / 169.0	1414787		9.856	NA	NA	NA	98.6
	13C3-PFBA	NIS	0.57	216.0 / 172.0	622824		4.297	NA	NA	NA	85.9
	13C2-PFHxA	NIS	1.90	315.0 / 270.0	399637		2.466	NA	NA	NA	98.6
	13C4-PFOA	NIS	2.99	417.0 / 372.0	371449		2.584	NA	NA	NA	103.3
	13C5-PFNA	NIS	3.44	468.0 / 423.0	263947		1.281	NA	NA	NA	102.5
	13C2-PFDA	NIS	3.86	515.1 / 470.1	236959		1.114	NA	NA	NA	89.1
	18O2-PFHxS	NIS	3.09	403.1 / 84.1	270579		2.299	NA	NA	NA	97.0
	13C4-PFOS	NIS	4.01	503.1 / 80.1	262428		2.183	NA	NA	NA	91.0

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

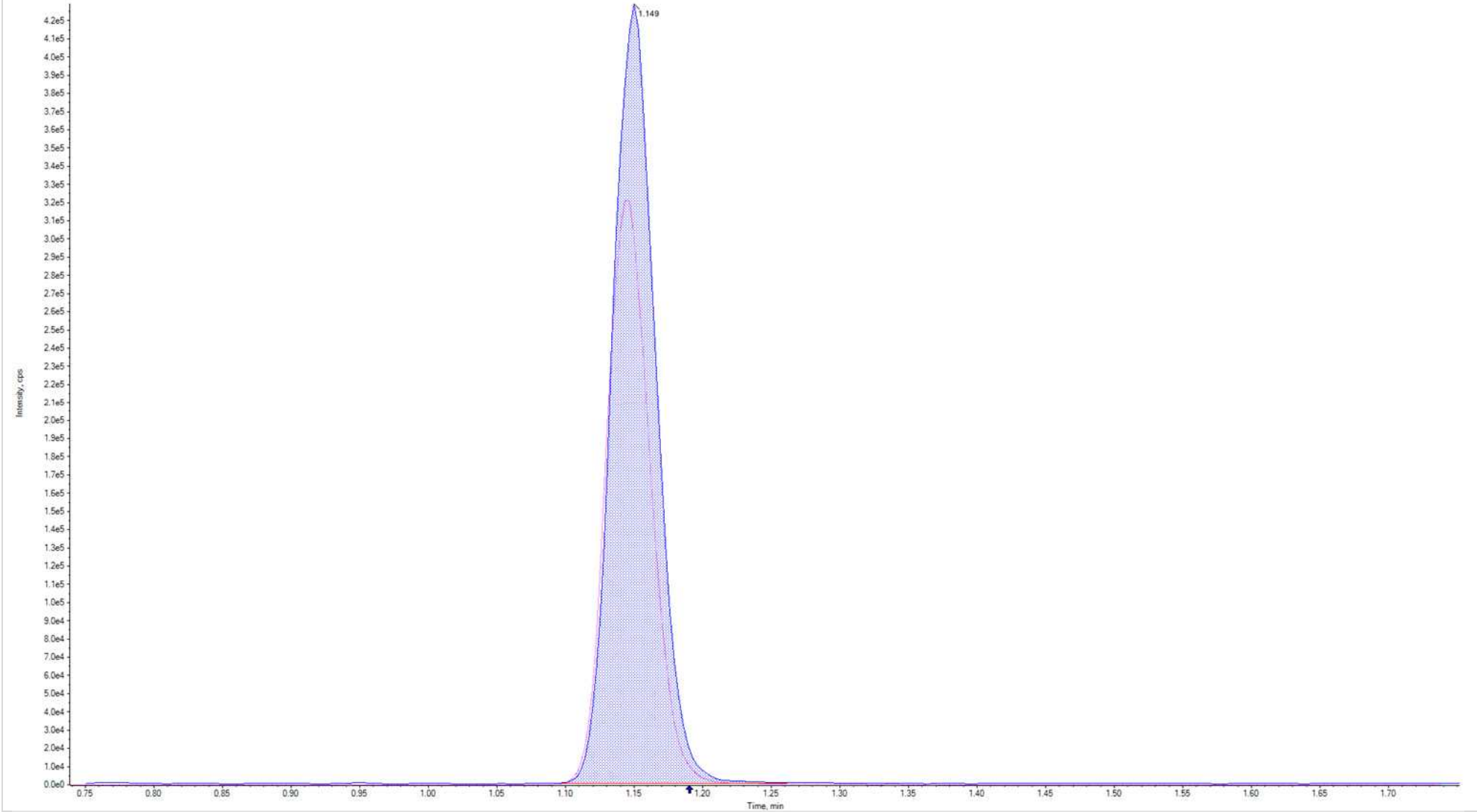
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PFBA
Sample: WG2038443-5 S/N:764.8 Points Across peak:31



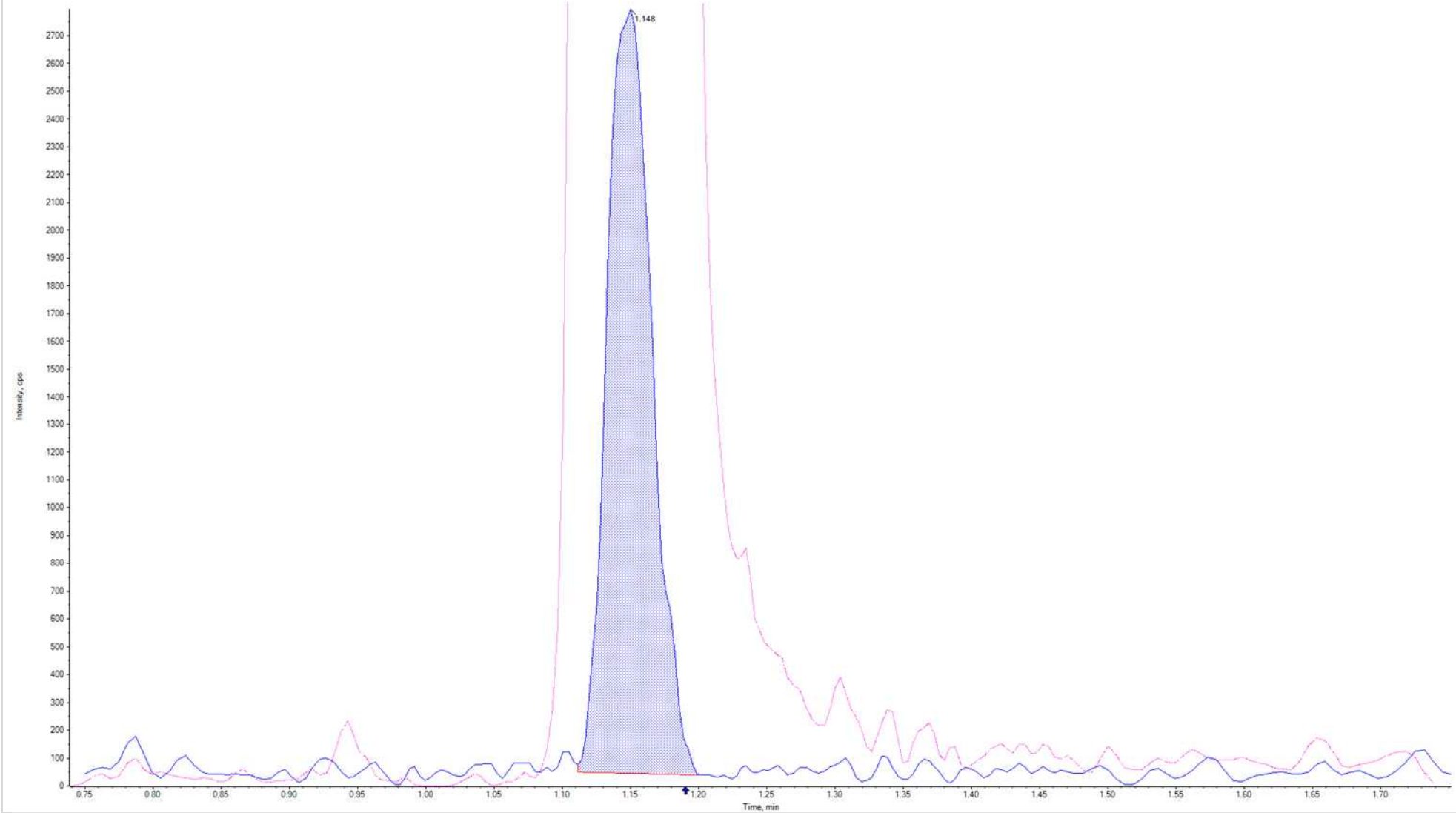
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PFPeA
Sample: WG2038443-5 S/N:3364.7 Points Across peak:54



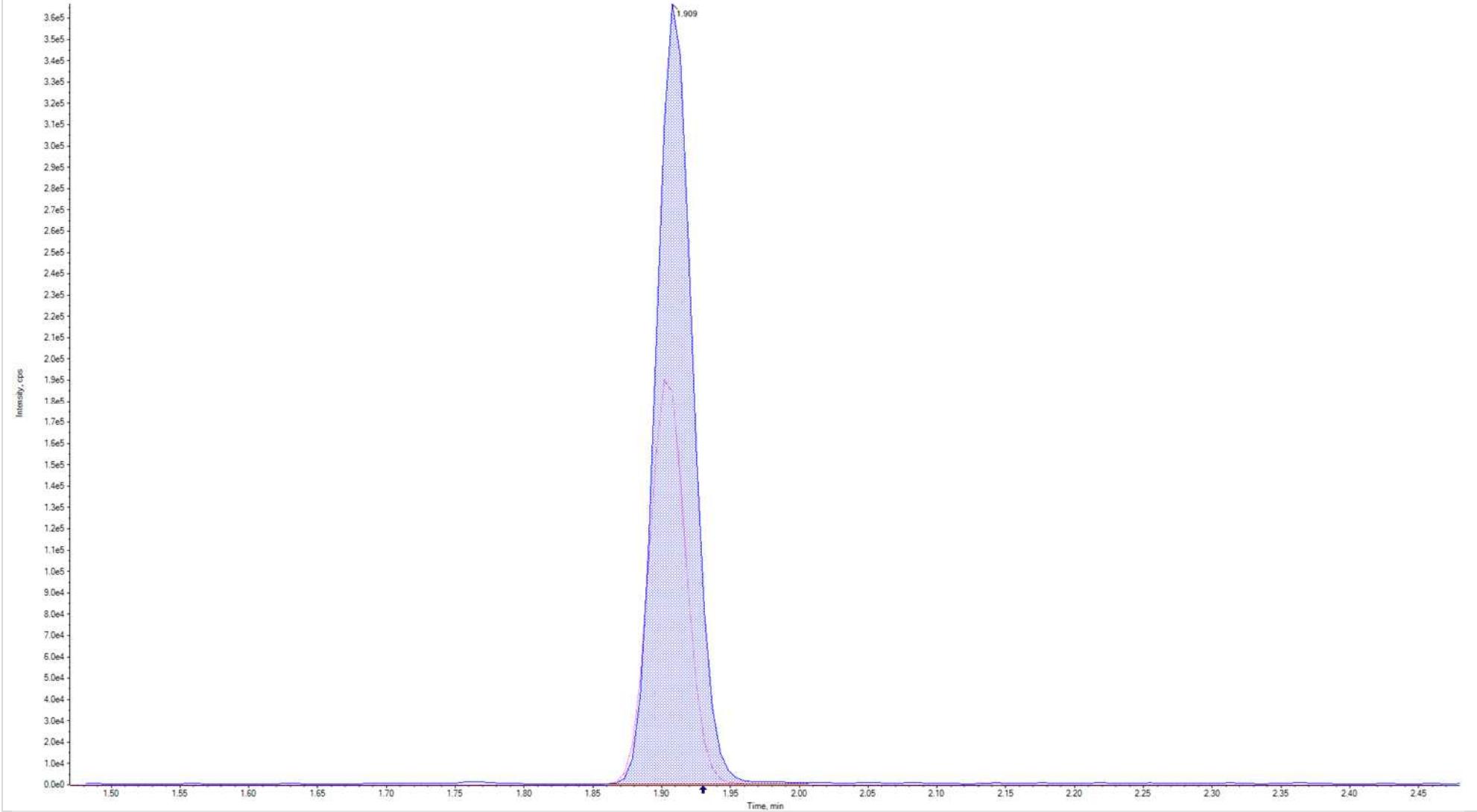
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PFPeA_2
Sample: WG2038443-5 S/N:165.5 Points Across peak:30



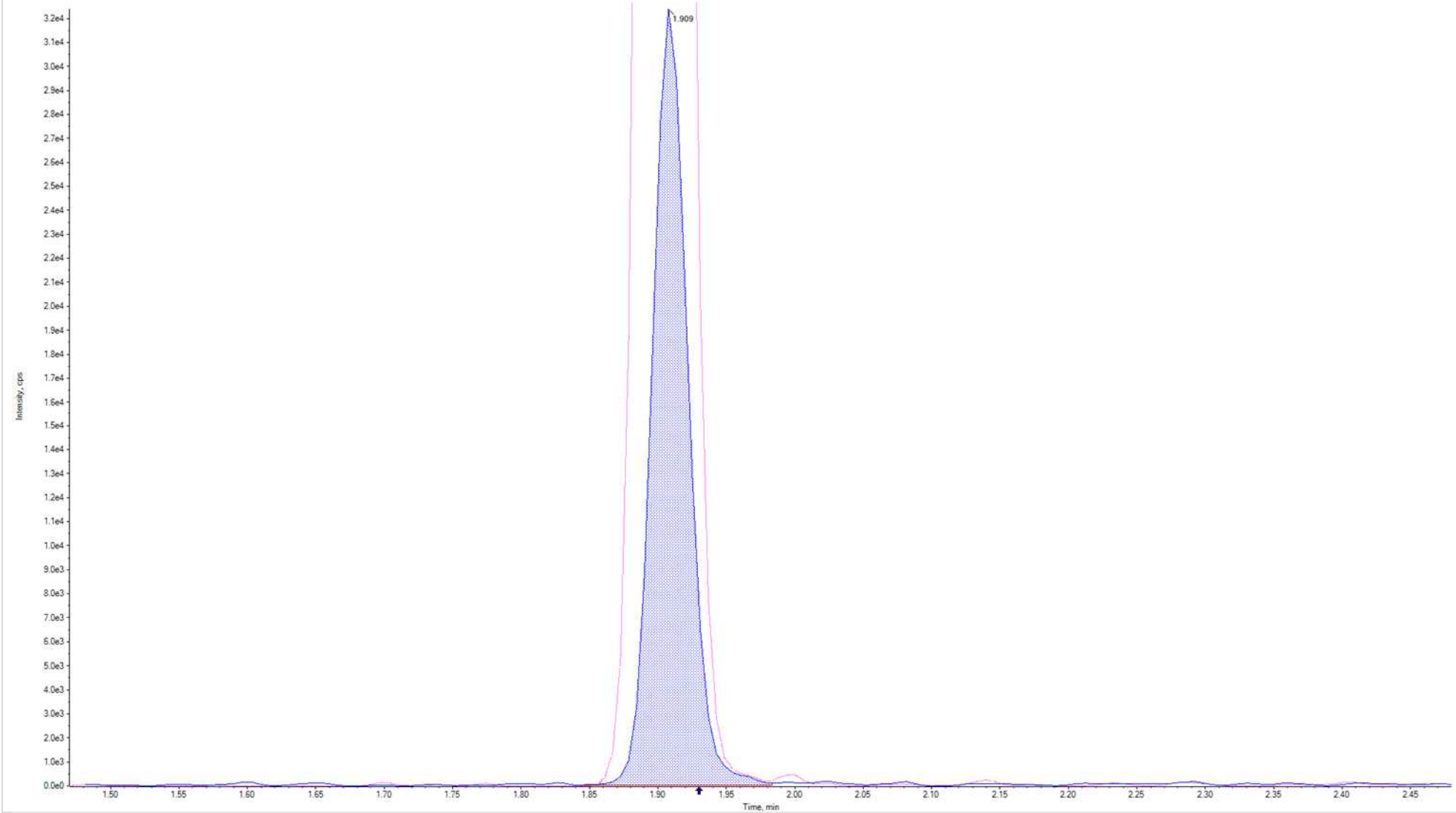
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PFHxA
Sample: WG2038443-5 S/N:2086.8 Points Across peak:30



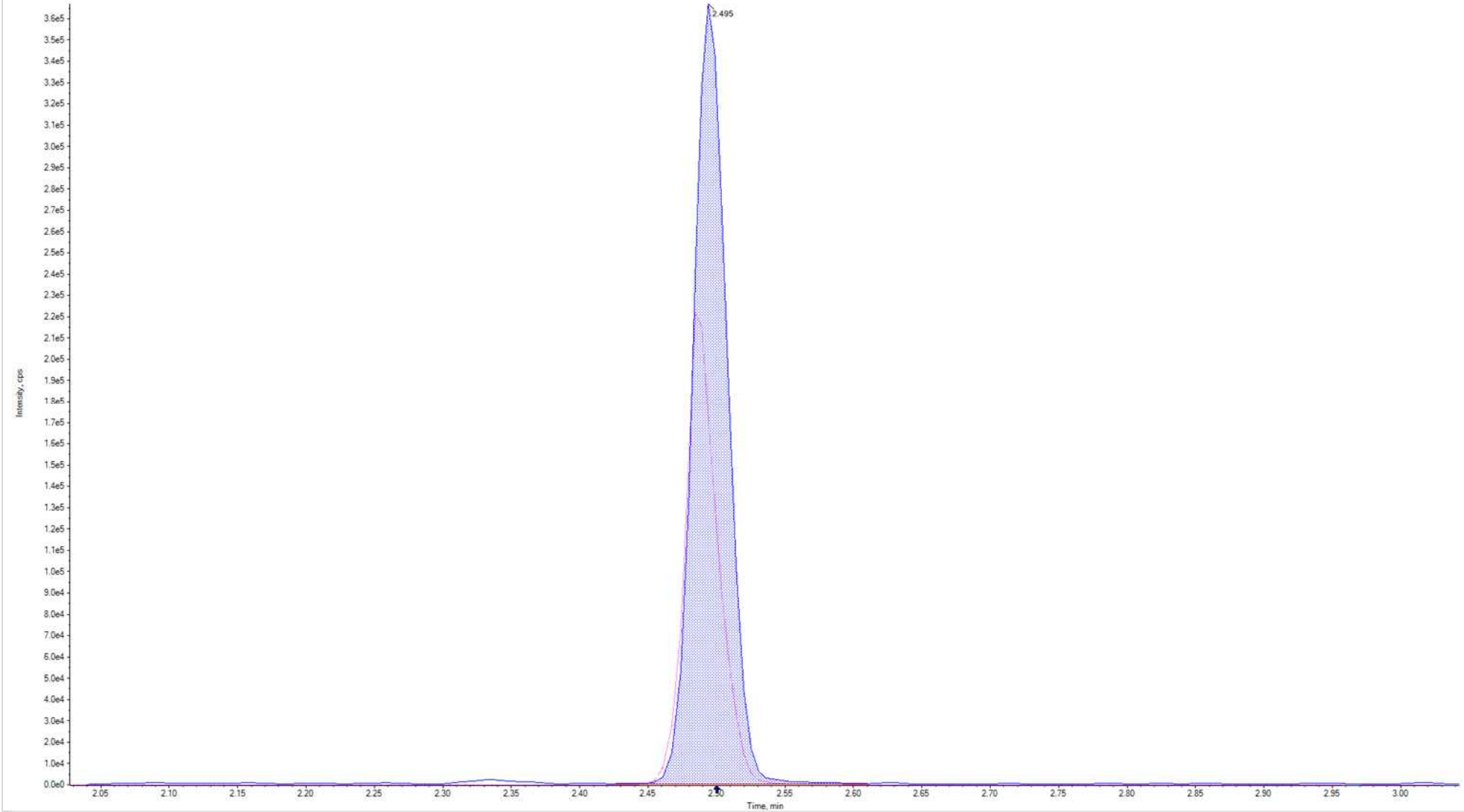
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PFHxA_2
Sample: WG2038443-5 S/N:810.9 Points Across peak:25



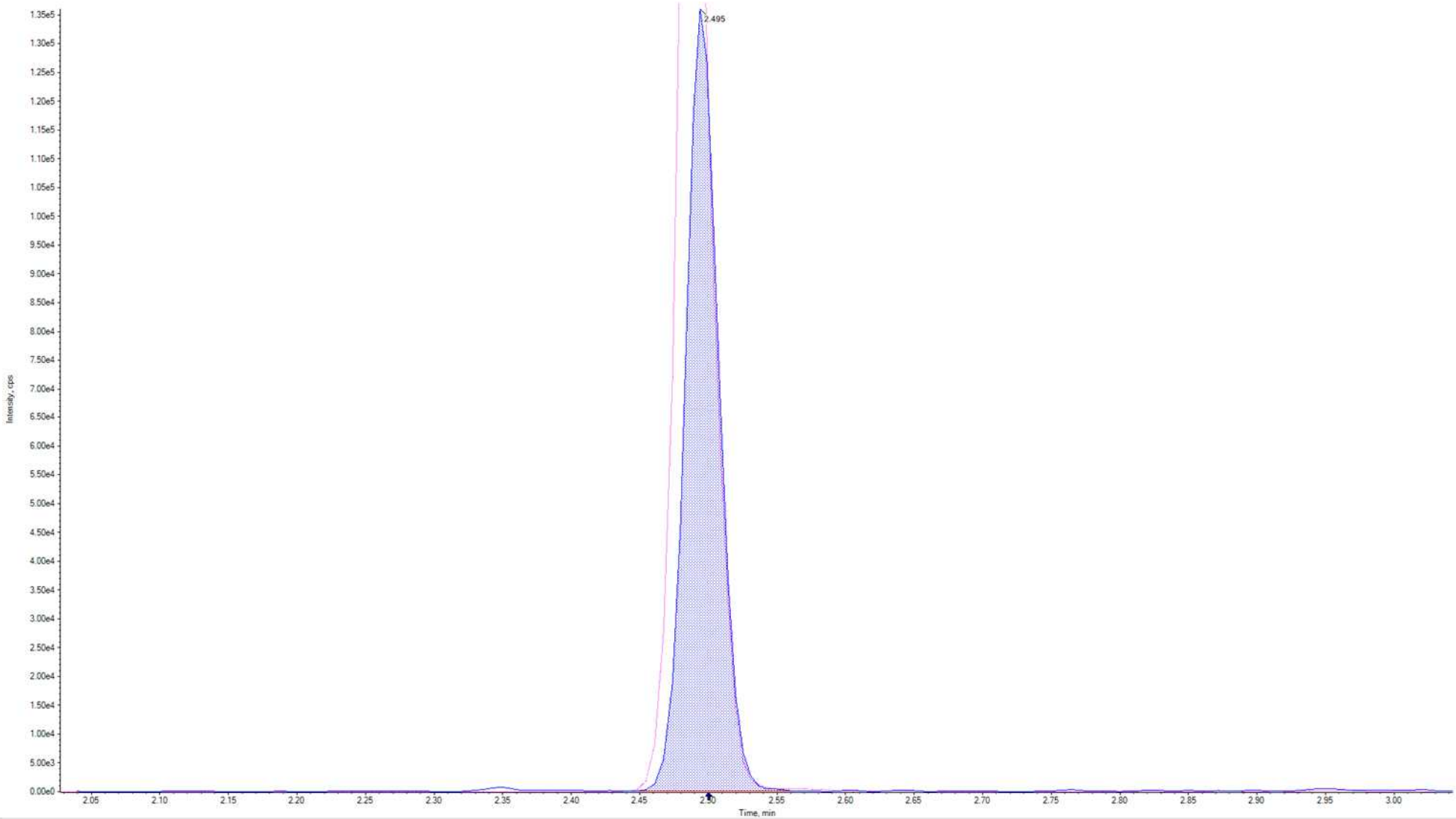
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PFHpA
Sample: WG2038443-5 S/N:2252.0 Points Across peak:34



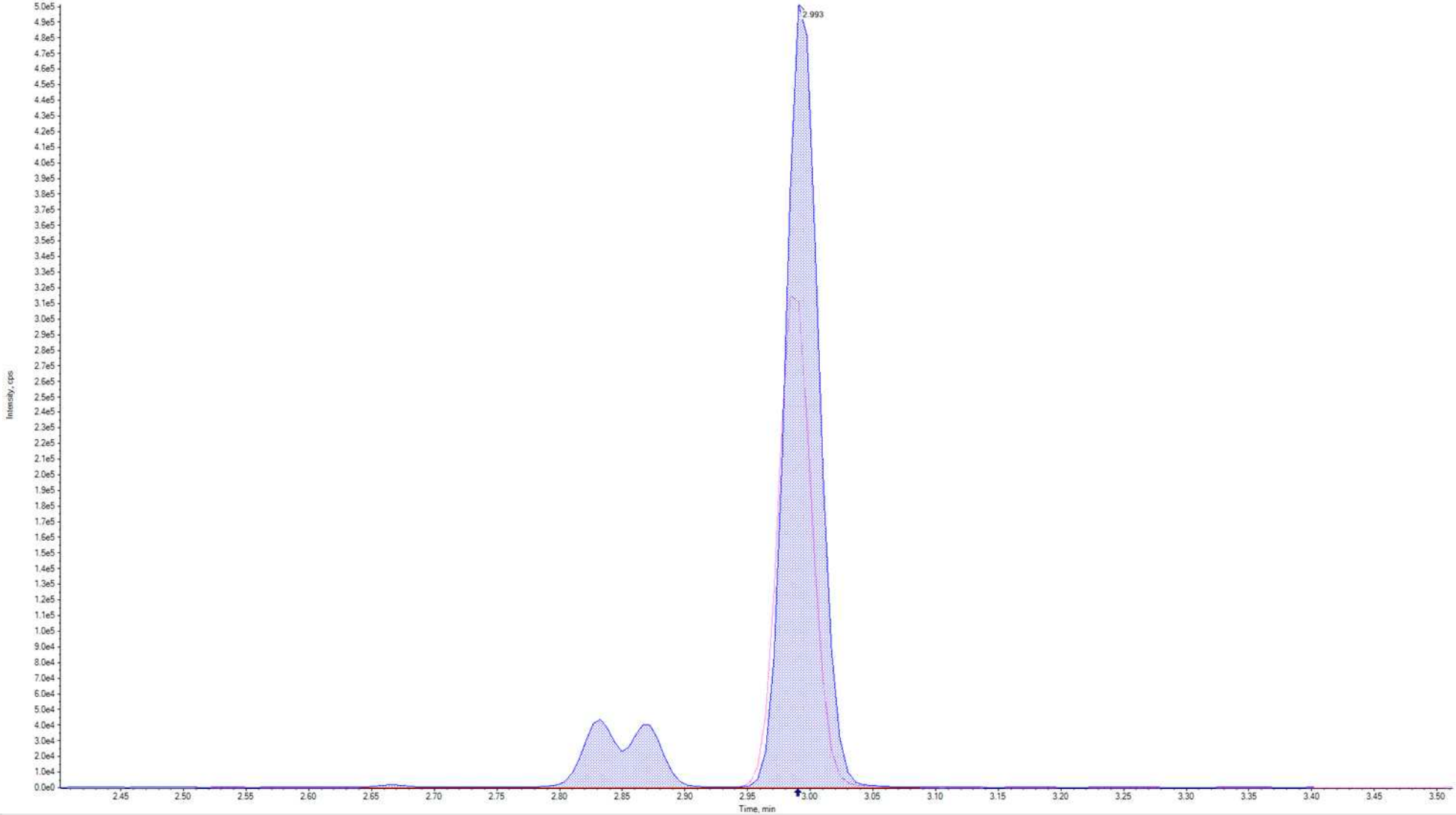
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PFHpA_2
Sample: WG2038443-5 S/N:2725.5 Points Across peak:23



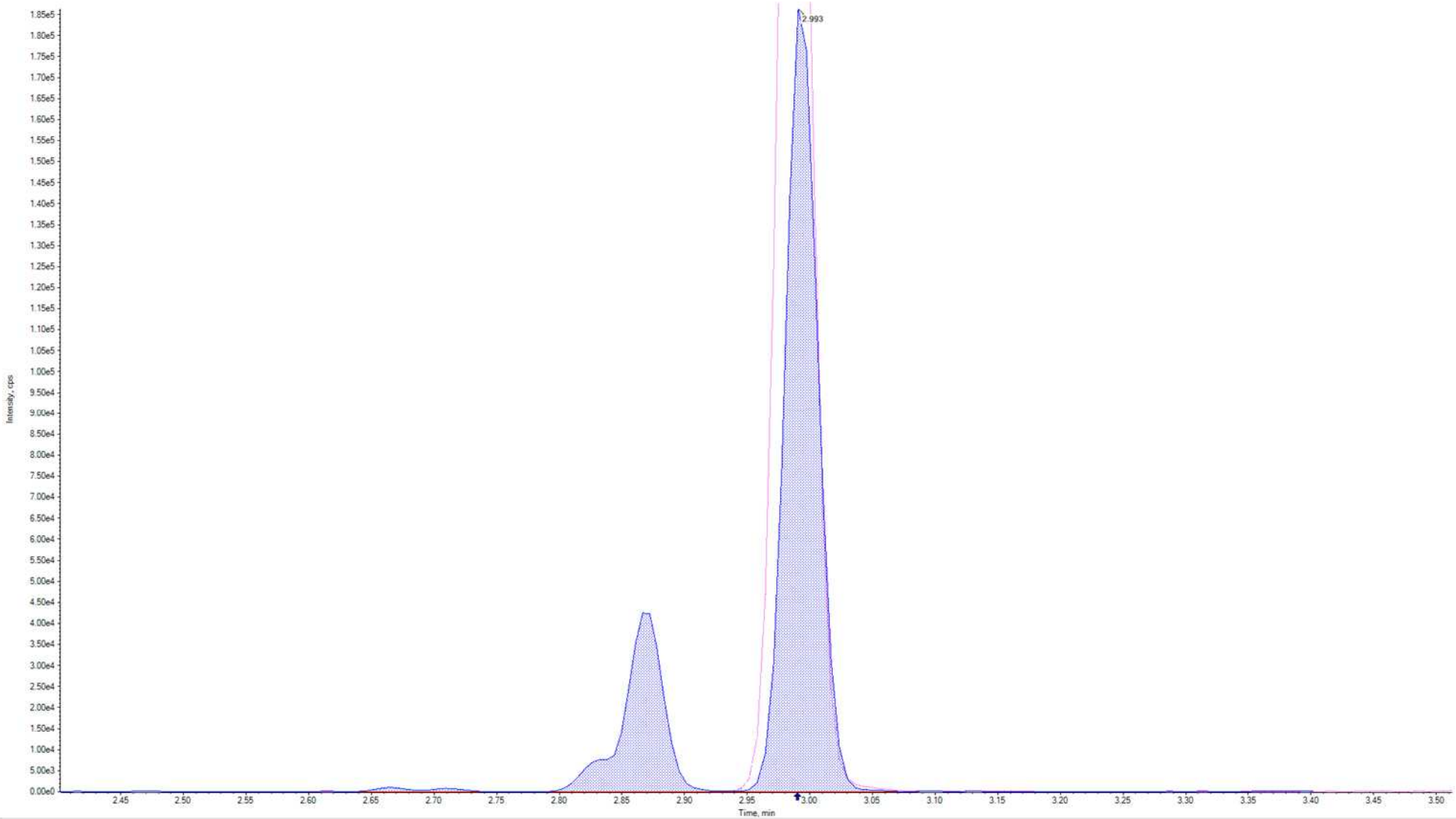
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PFOA
Sample: WG2038443-5 S/N:1075.0 Points Across peak:75



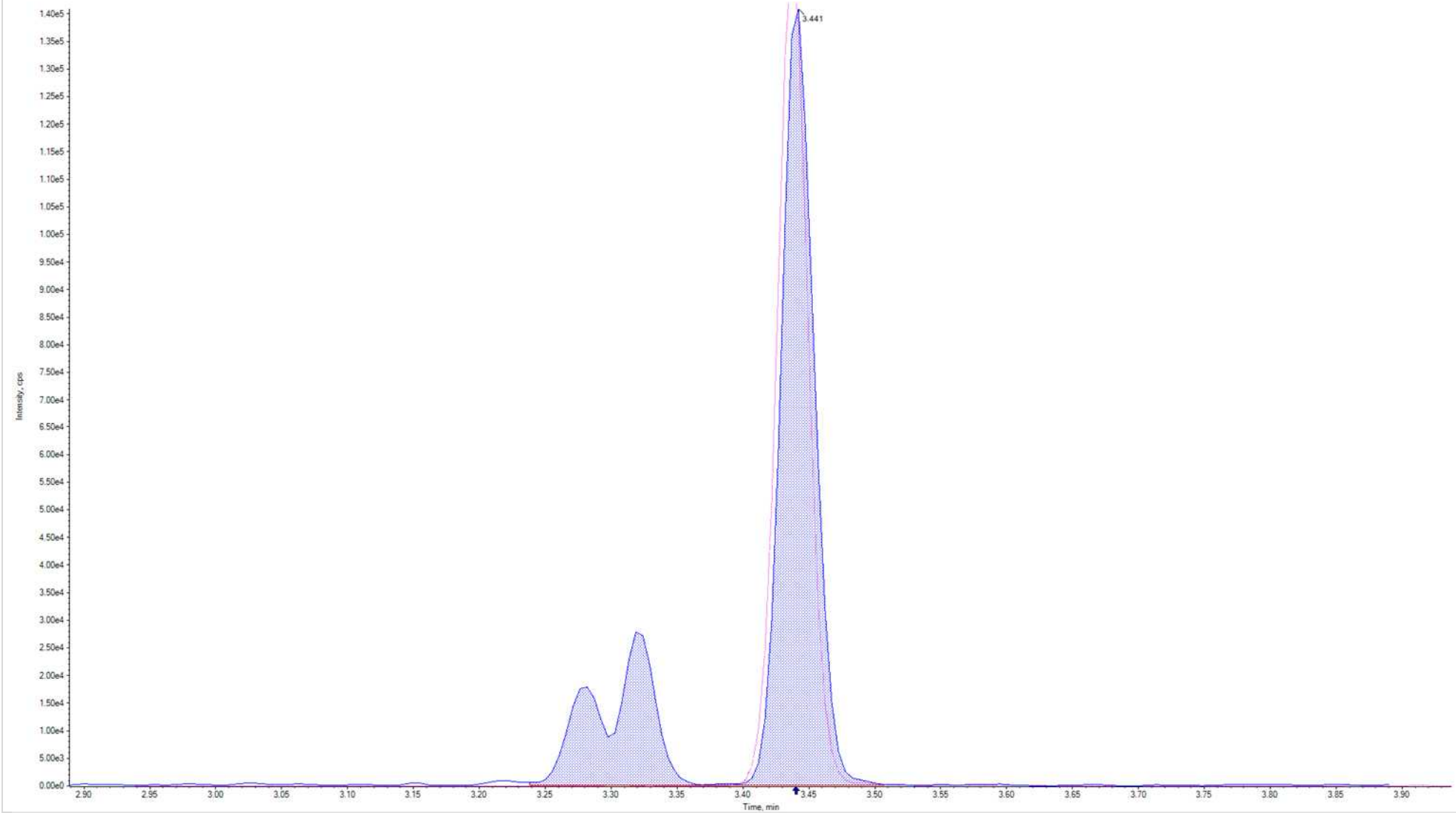
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PFOA_2
Sample: WG2038443-5 S/N:753.7 Points Across peak:76



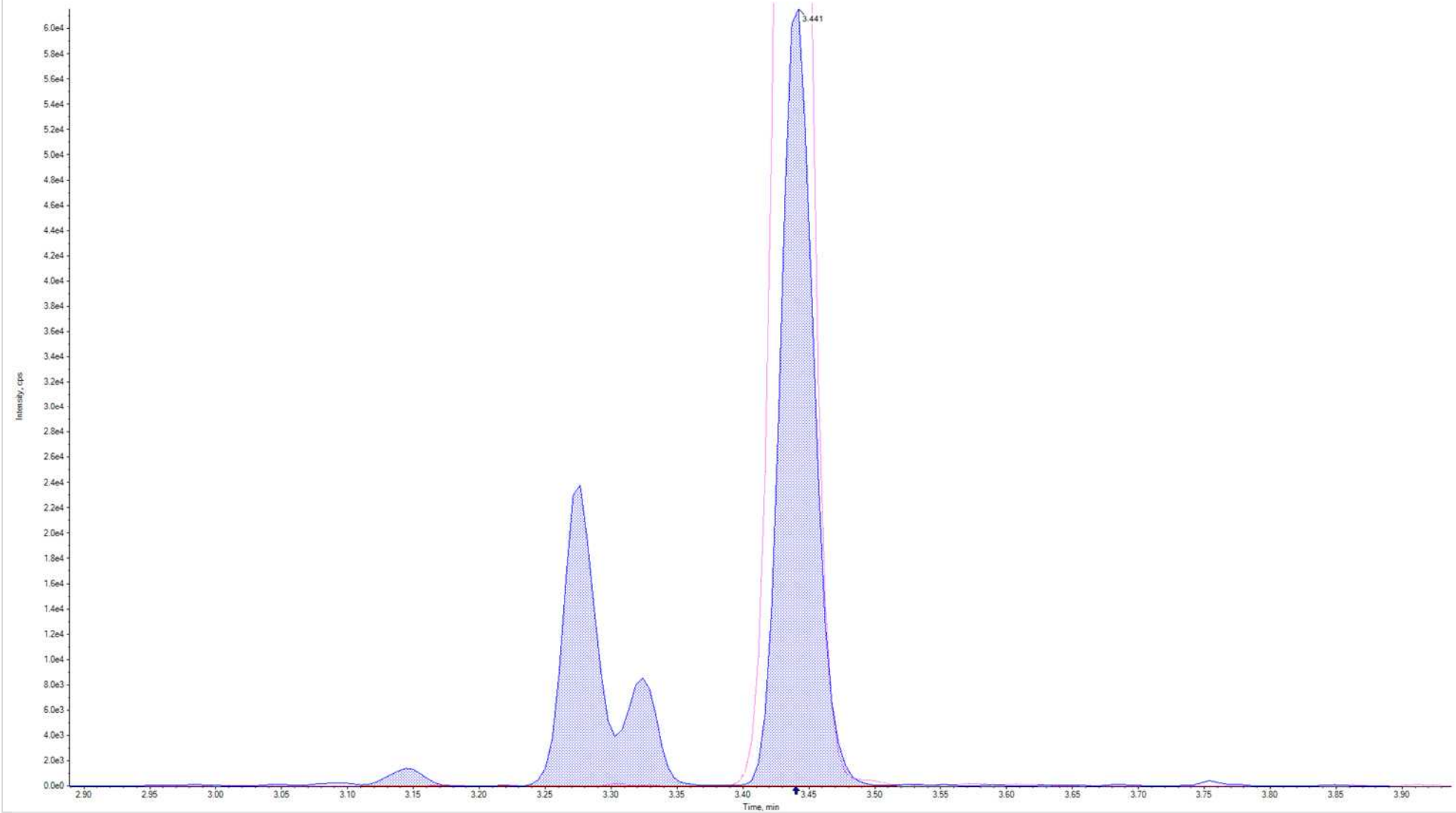
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFNA
Sample: WG2038443-5 S/N:498.9 Points Across peak:54



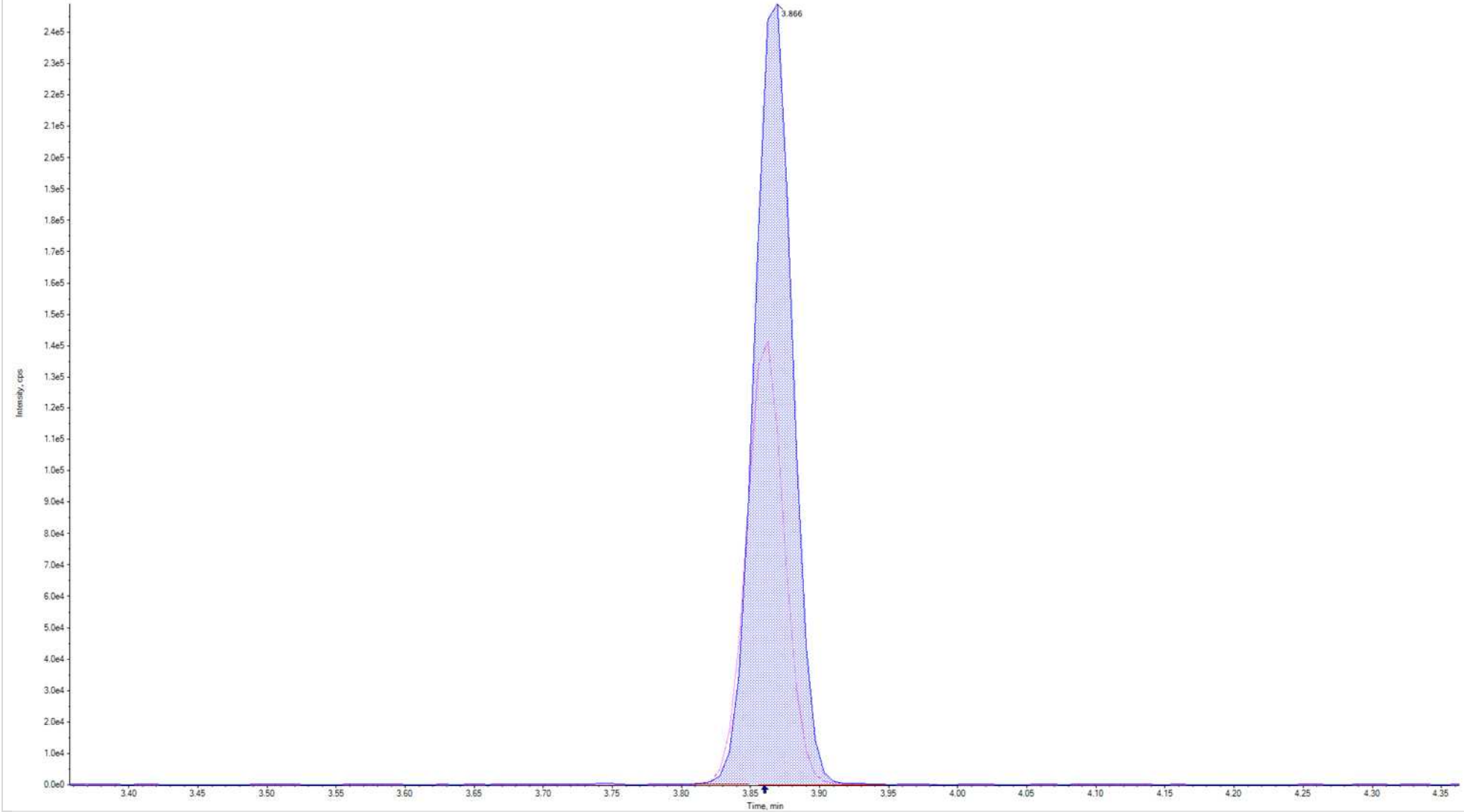
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

PFNA_2
Sample: WG2038443-5 S/N:375.3 Points Across peak:77



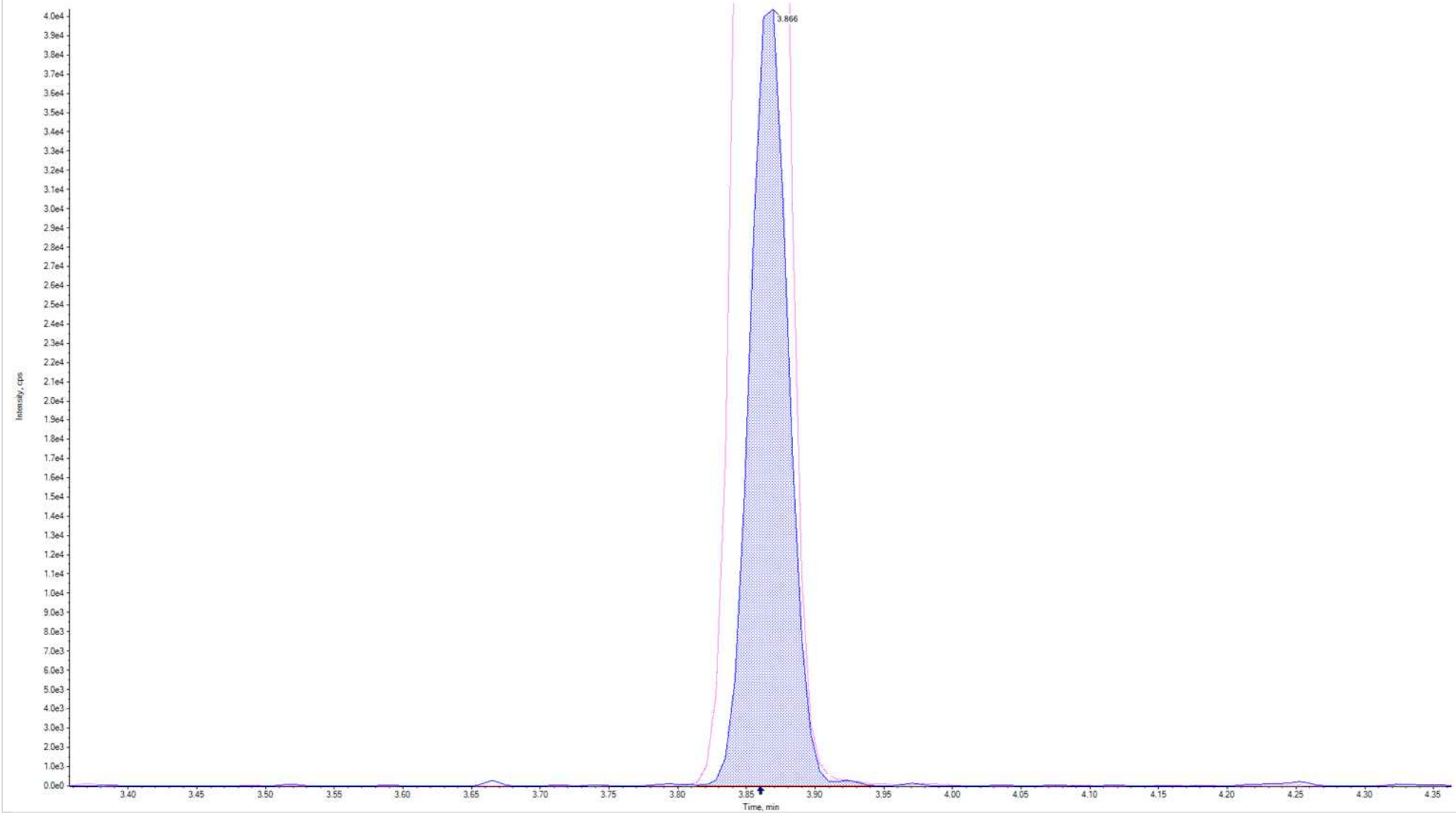
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFDA
Sample: WG2038443-5 S/N:4990.9 Points Across peak:24



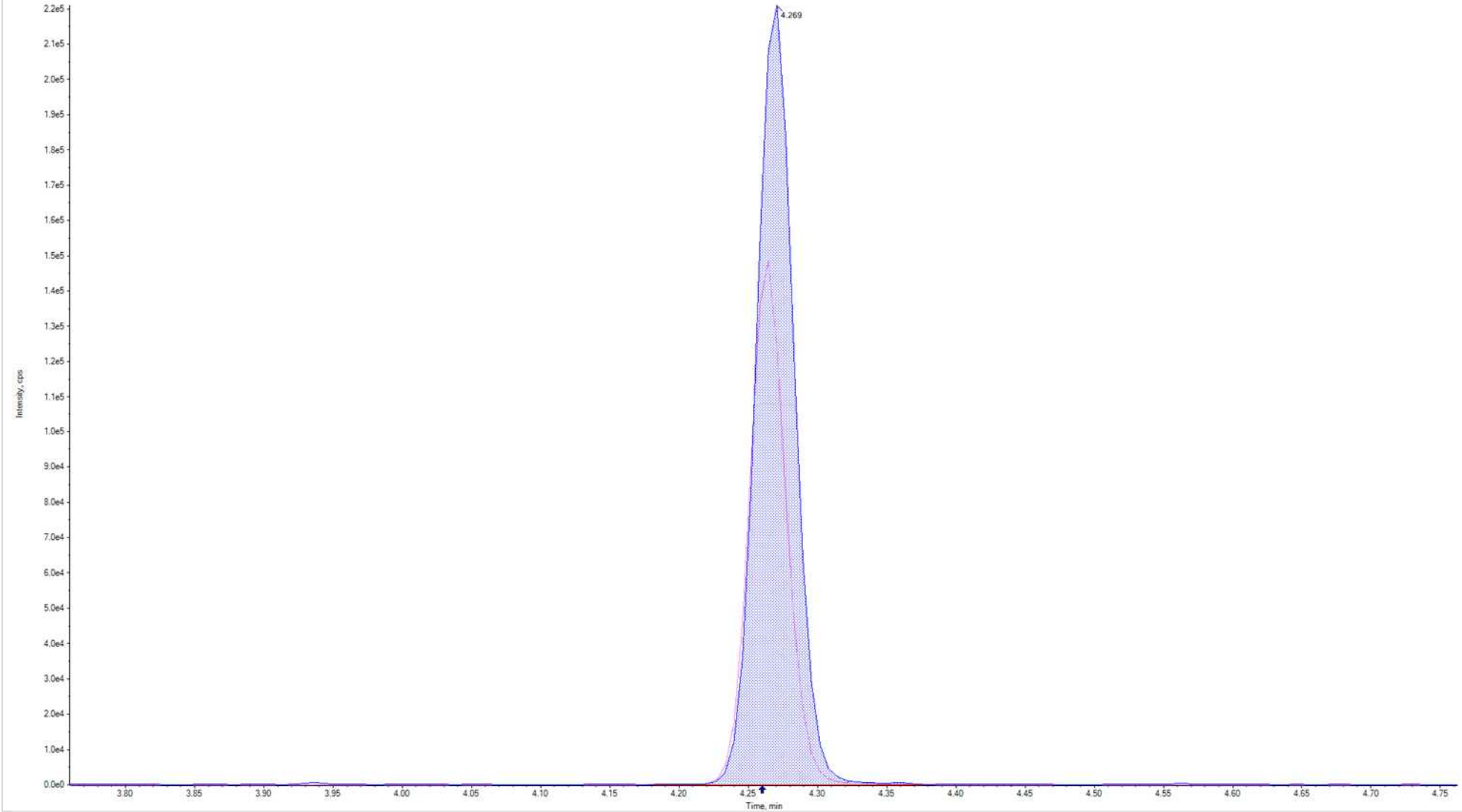
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFDA_2
Sample: WG2038443-5 S/N:809.6 Points Across peak:21



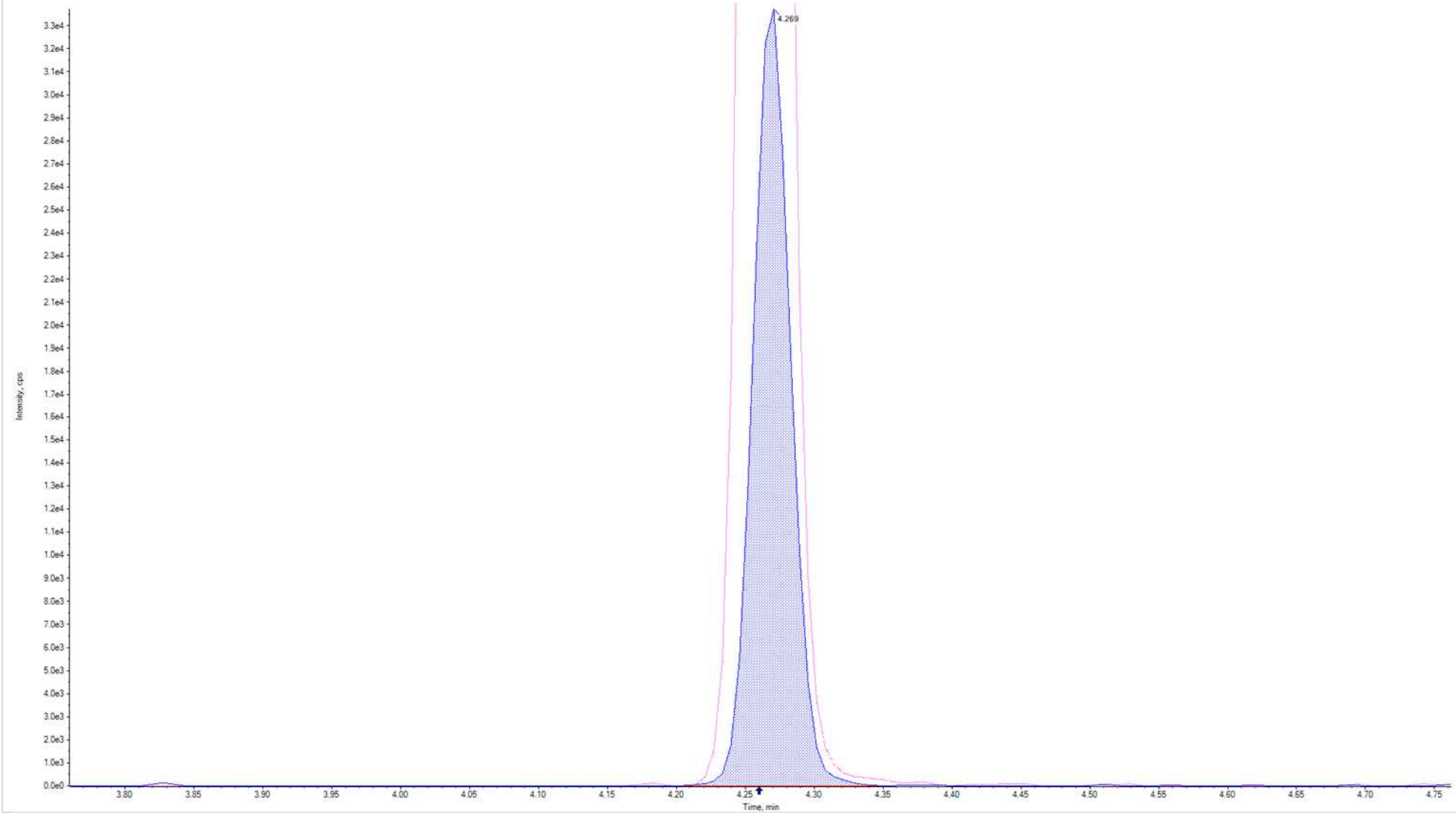
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Alpha Analytical LLC
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PFUnA
Sample: WG2038443-5 S/N:4377.1 Points Across peak:33



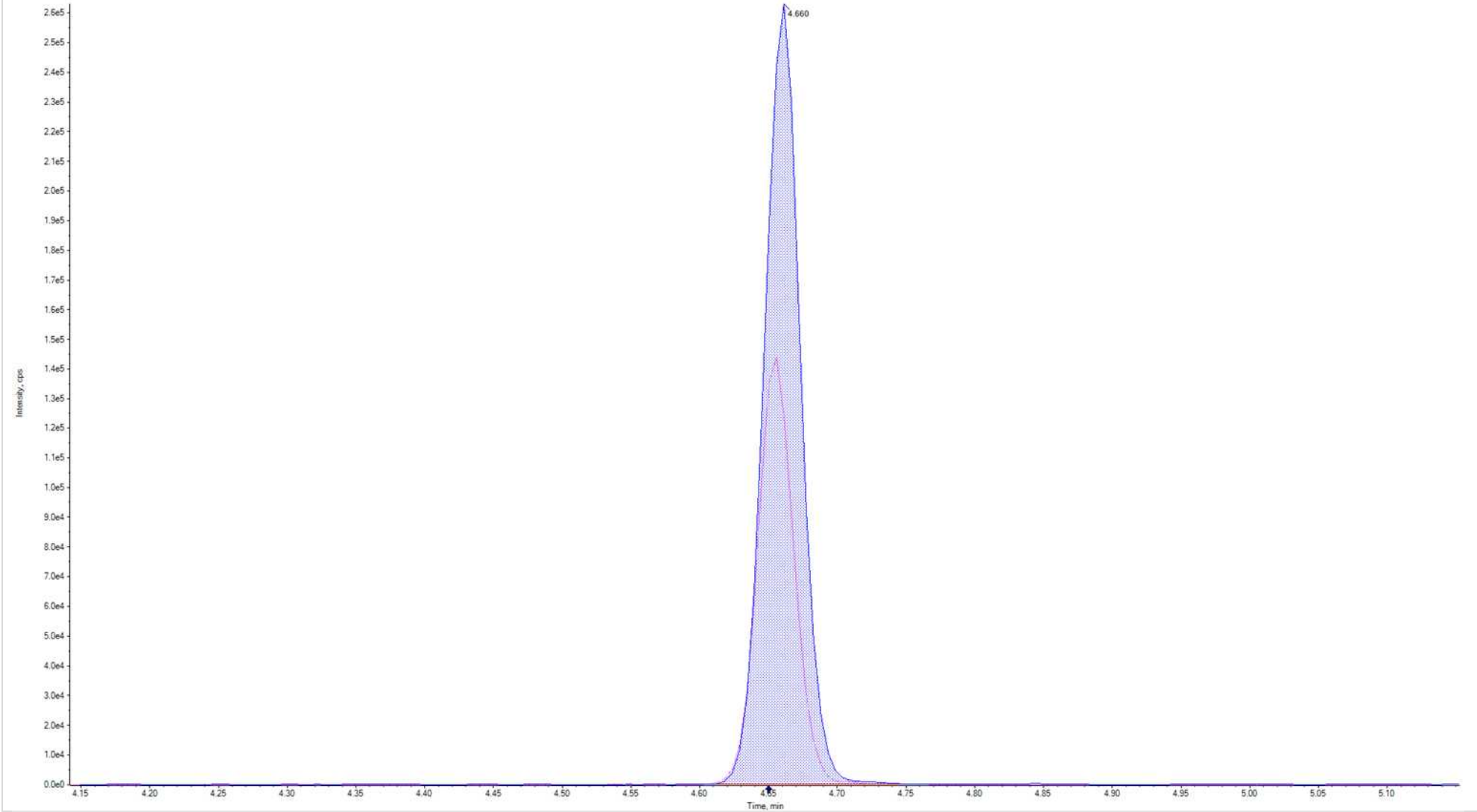
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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PFUnA_2
Sample: WG2038443-5 S/N:760.7 Points Across peak:31



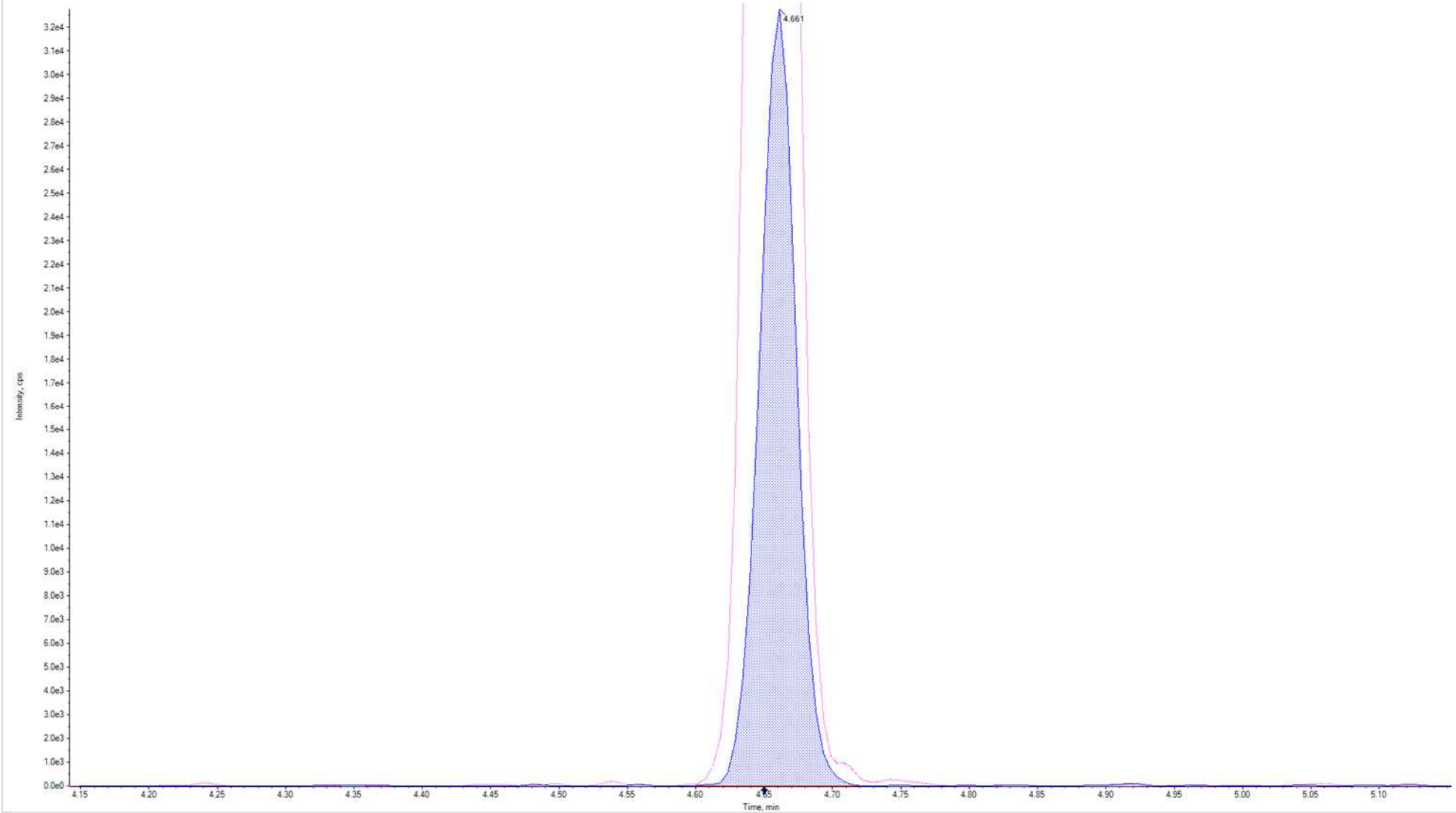
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Alpha Analytical LLC
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PFDoA
Sample: WG2038443-5 S/N:7248.1 Points Across peak:33



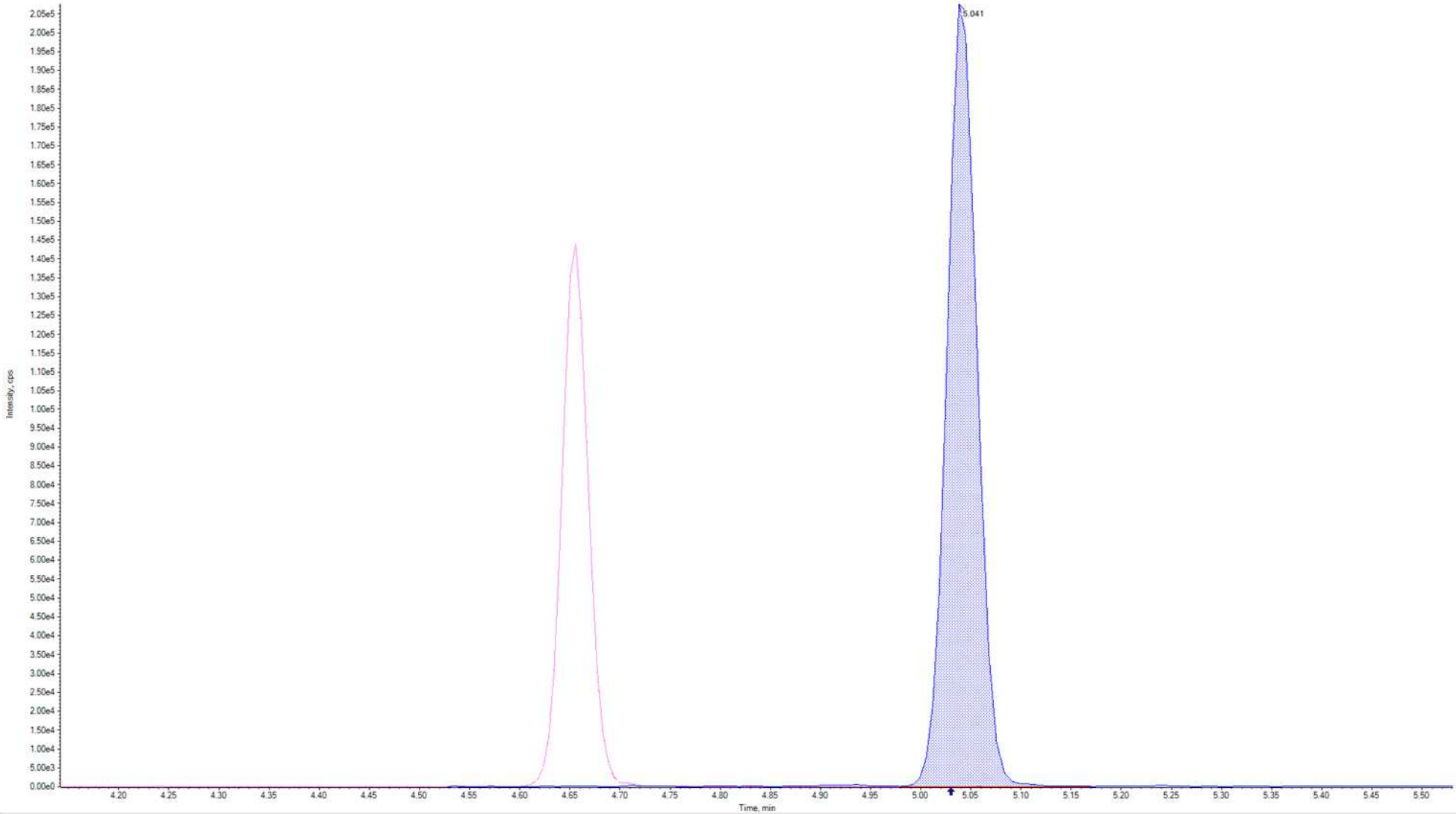
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFDoA_2
Sample: WG2038443-5 S/N:903.4 Points Across peak:28



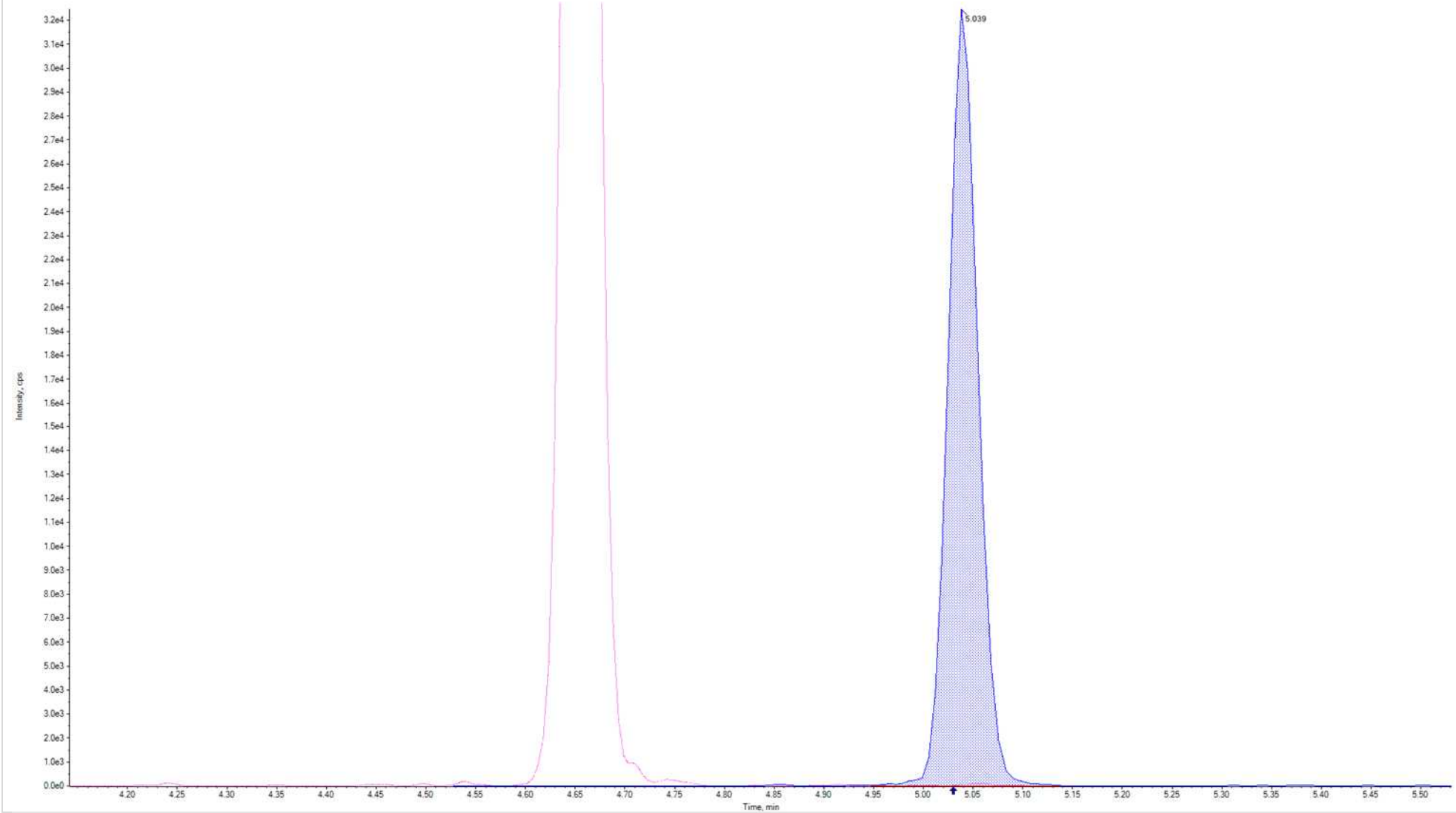
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

PFTrDA
Sample: WG2038443-5 S/N:4303.5 Points Across peak:28



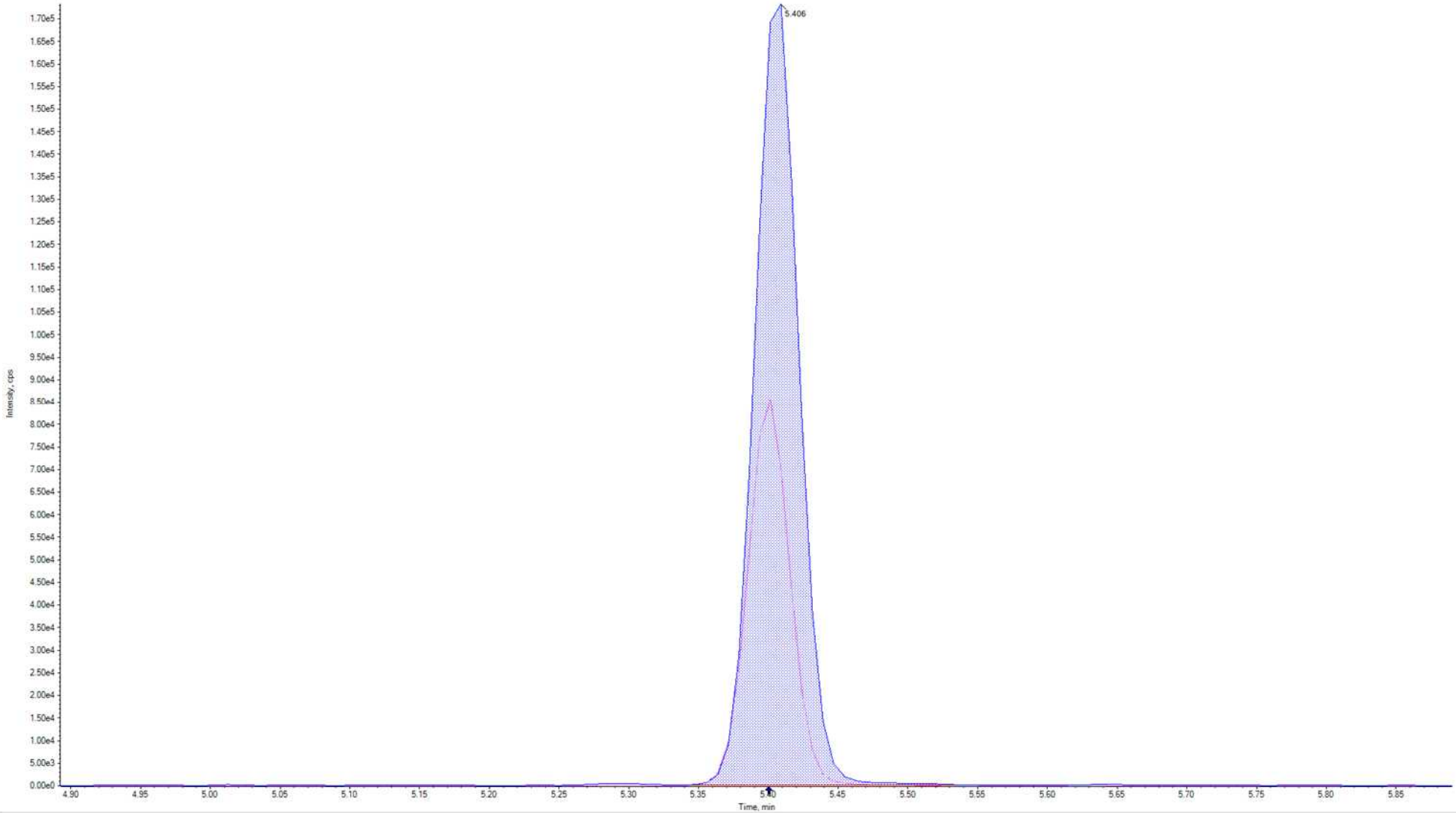
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Alpha Analytical LLC
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PFTrDA_2
Sample: WG2038443-5 S/N:1302.1 Points Across peak:33



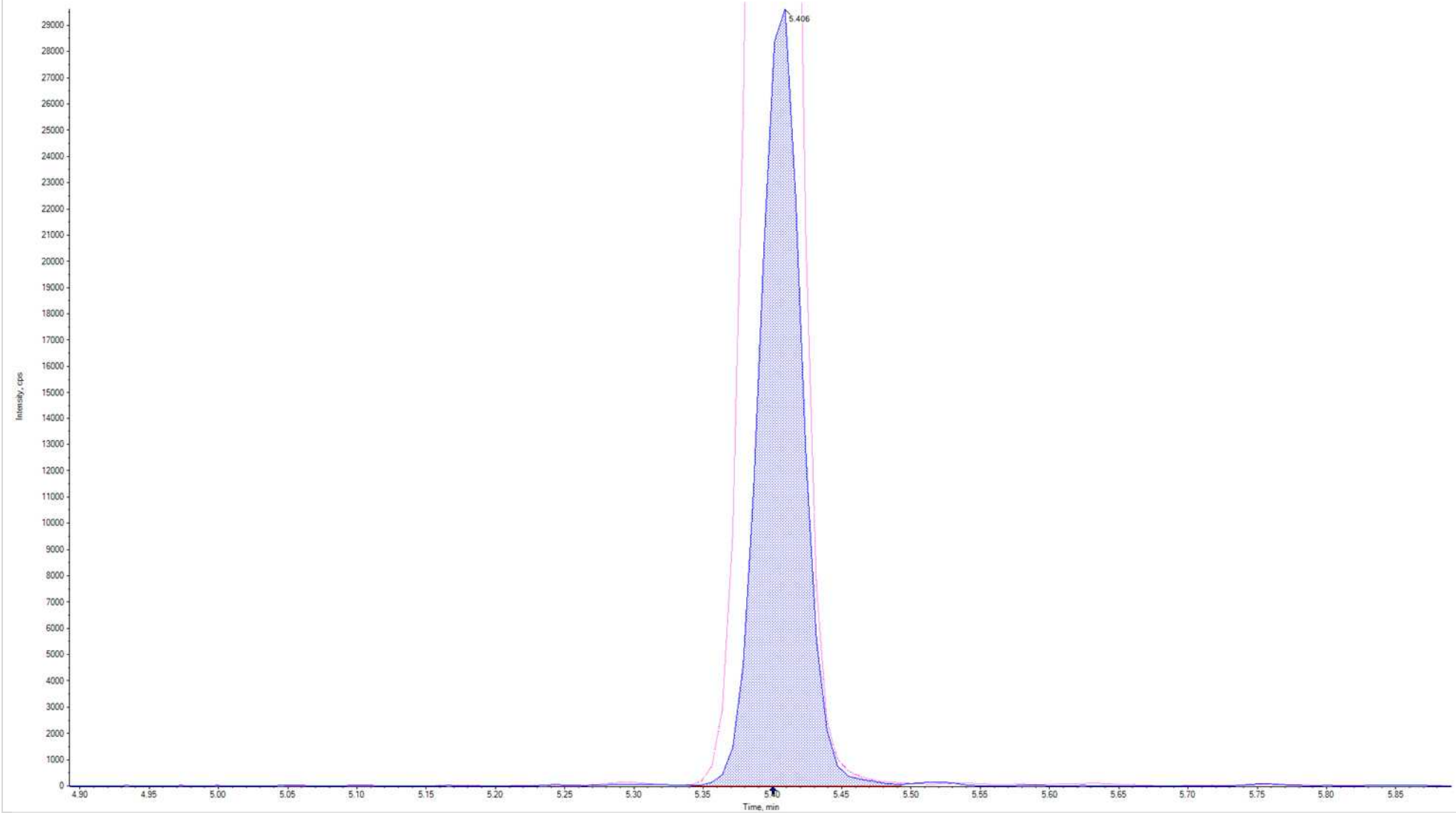
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Alpha Analytical LLC
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PFTeDA
Sample: WG2038443-5 S/N:3801.0 Points Across peak:27



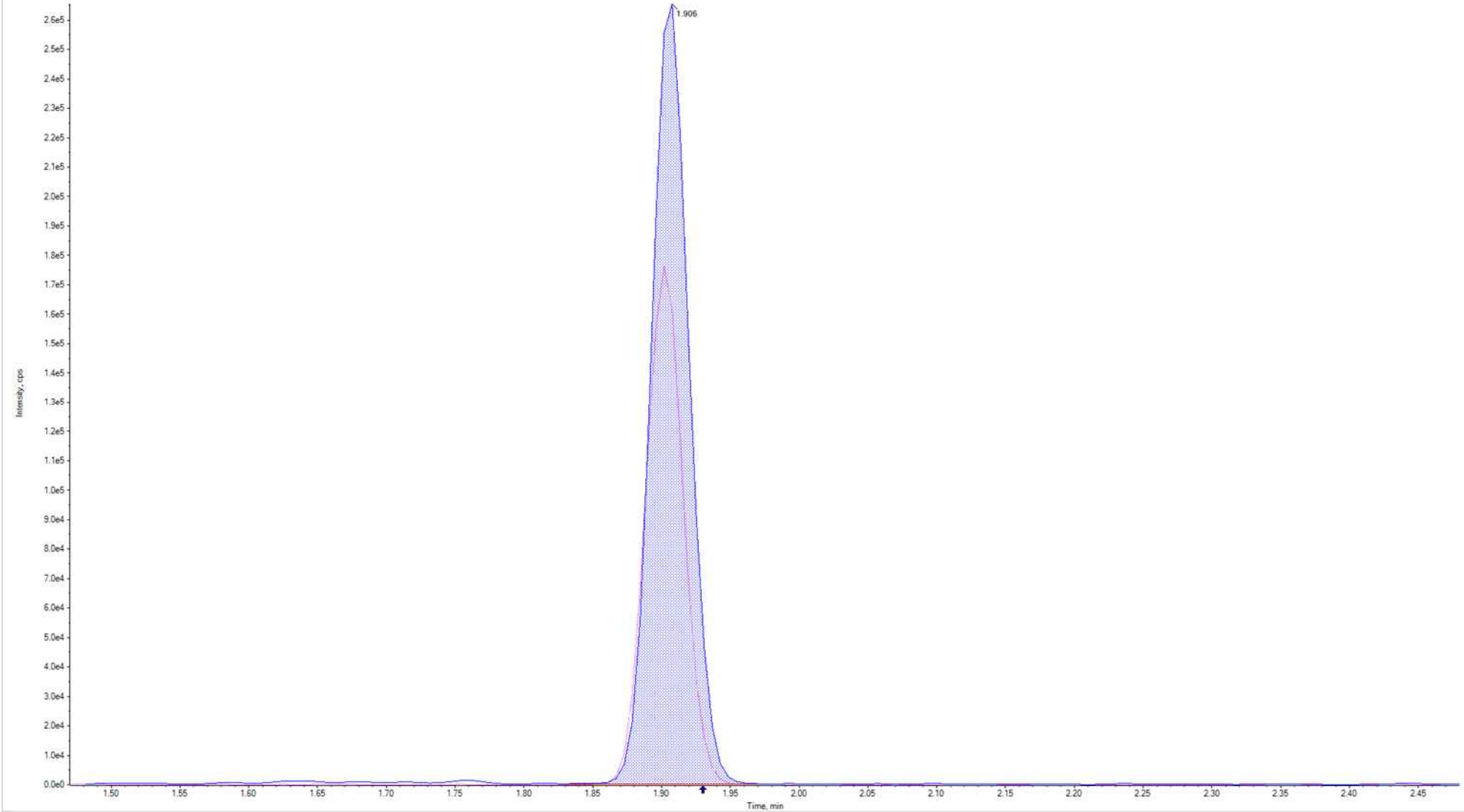
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Alpha Analytical LLC
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PFTeDA_2
Sample: WG2038443-5 S/N:1855.5 Points Across peak:20



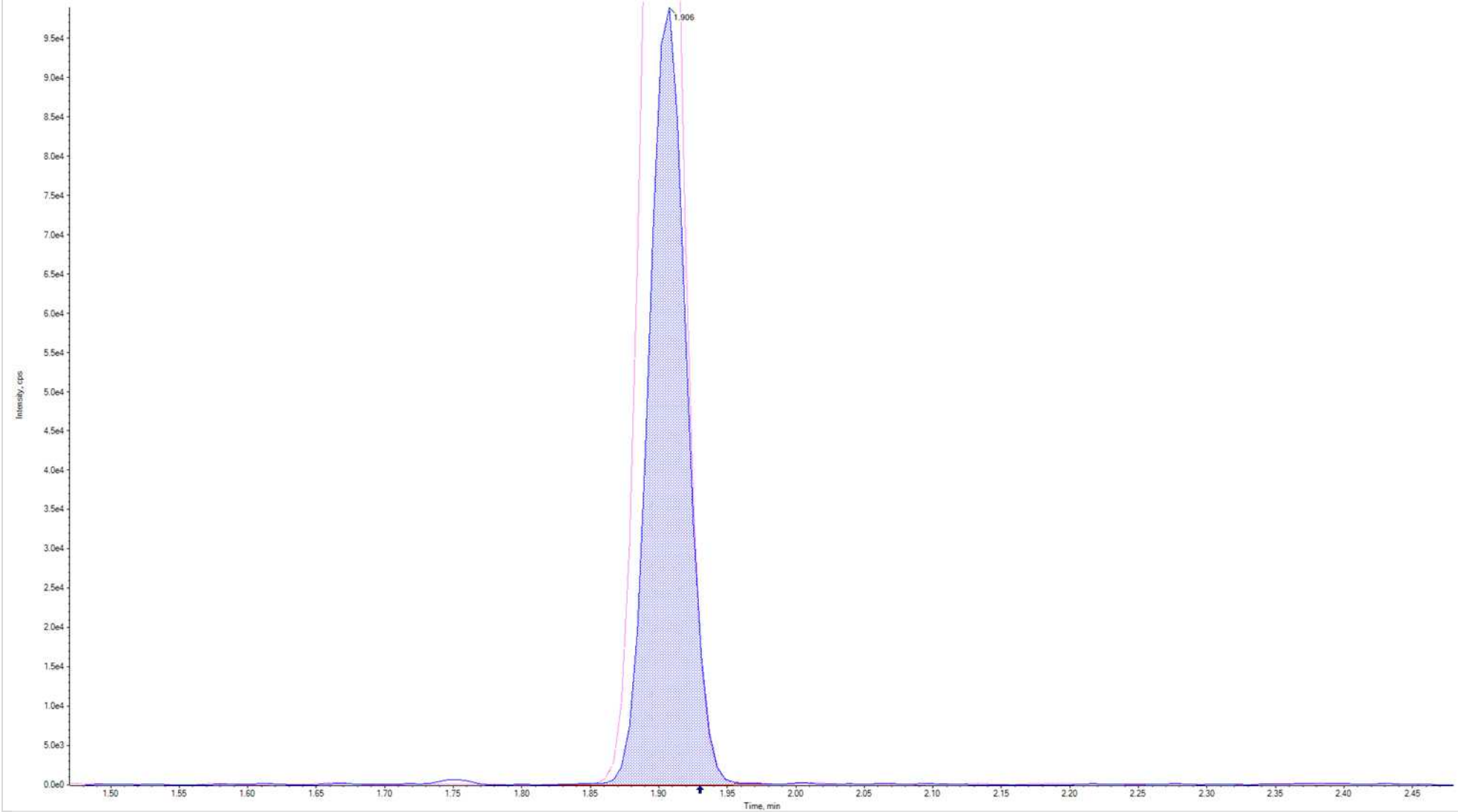
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFBS
Sample: WG2038443-5 S/N:3156.5 Points Across peak:27



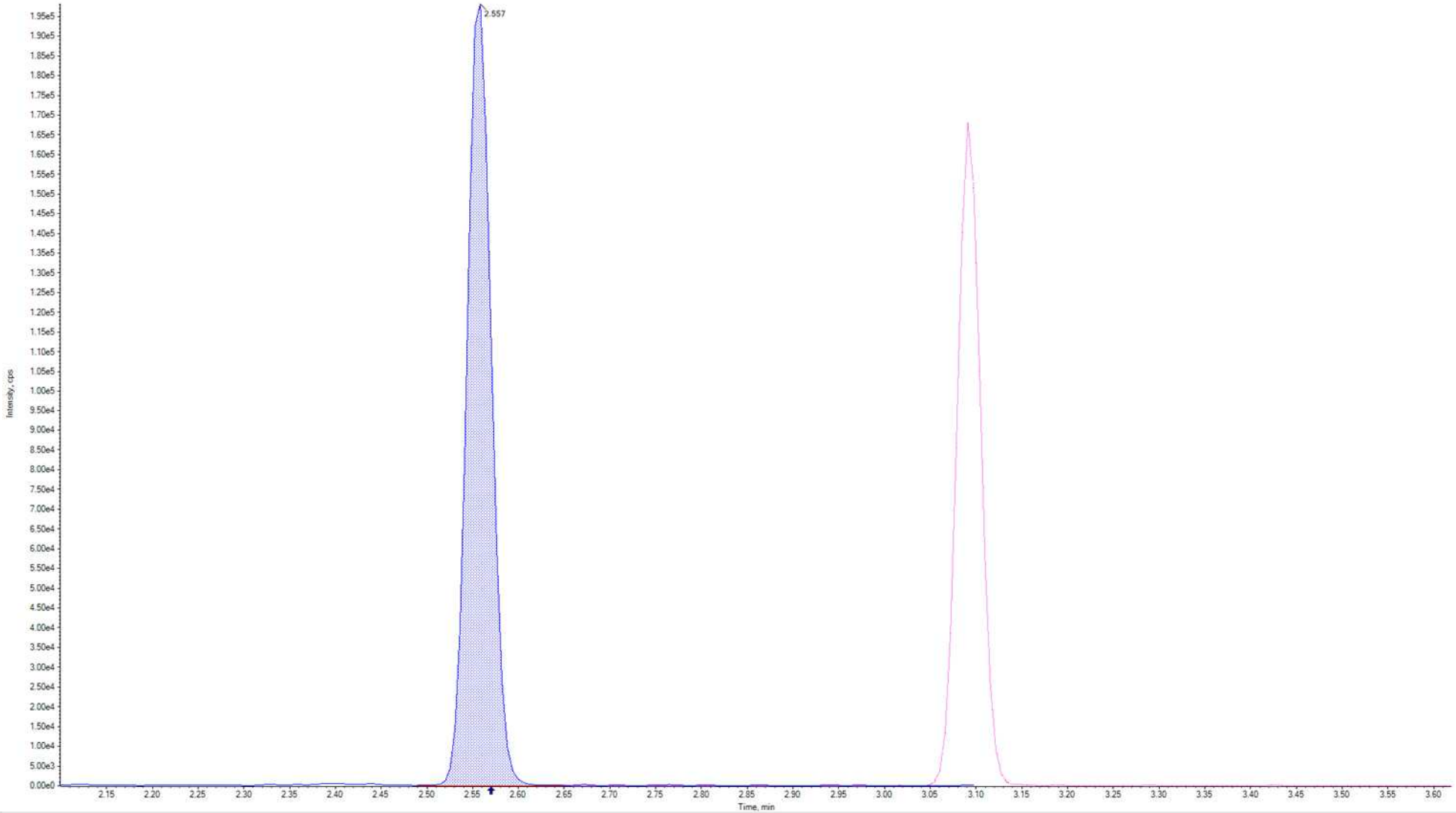
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PFBS_2
Sample: WG2038443-5 S/N:2478.6 Points Across peak:30



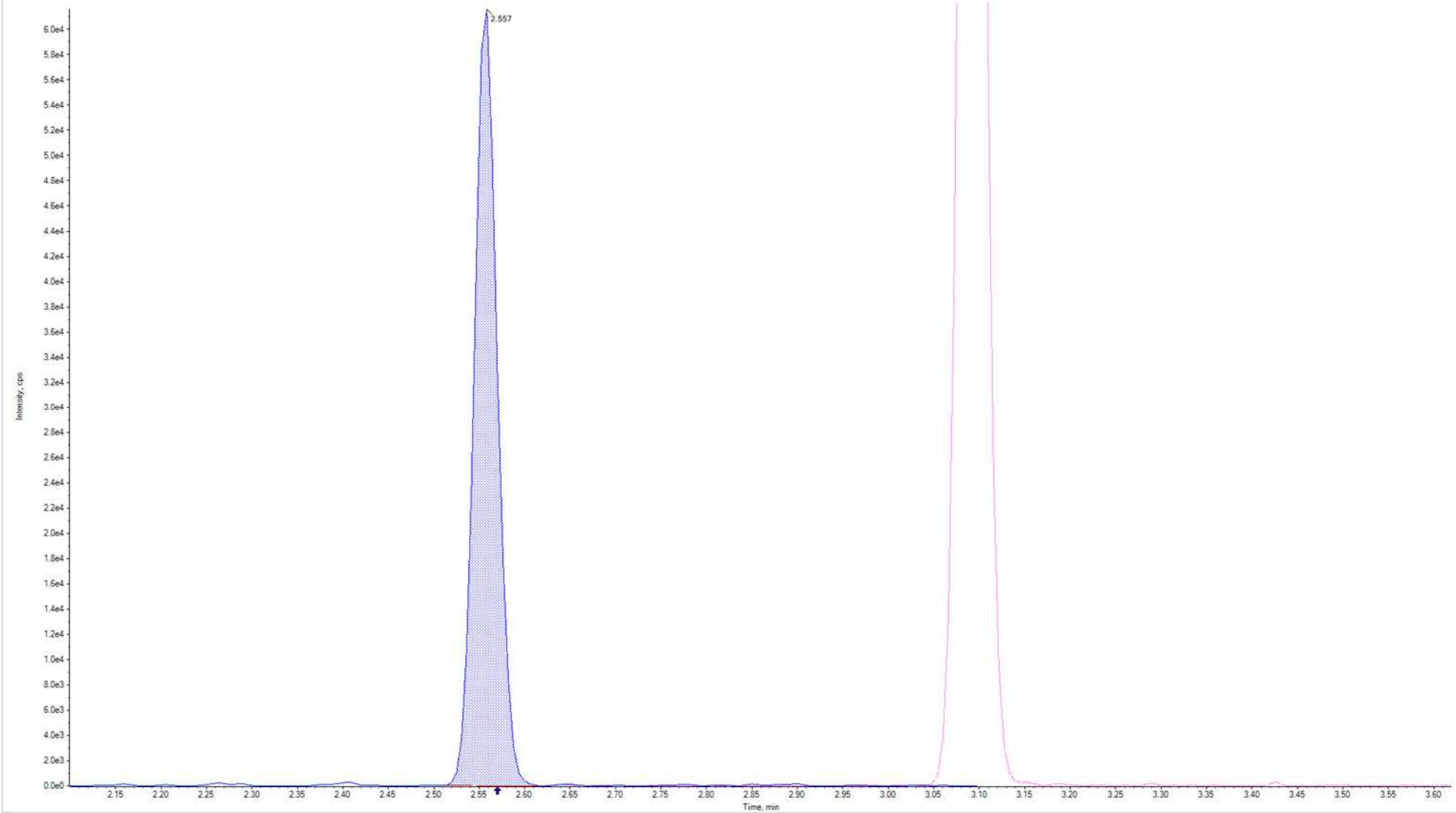
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PFPeS
Sample: WG2038443-5 S/N:3972.1 Points Across peak:30



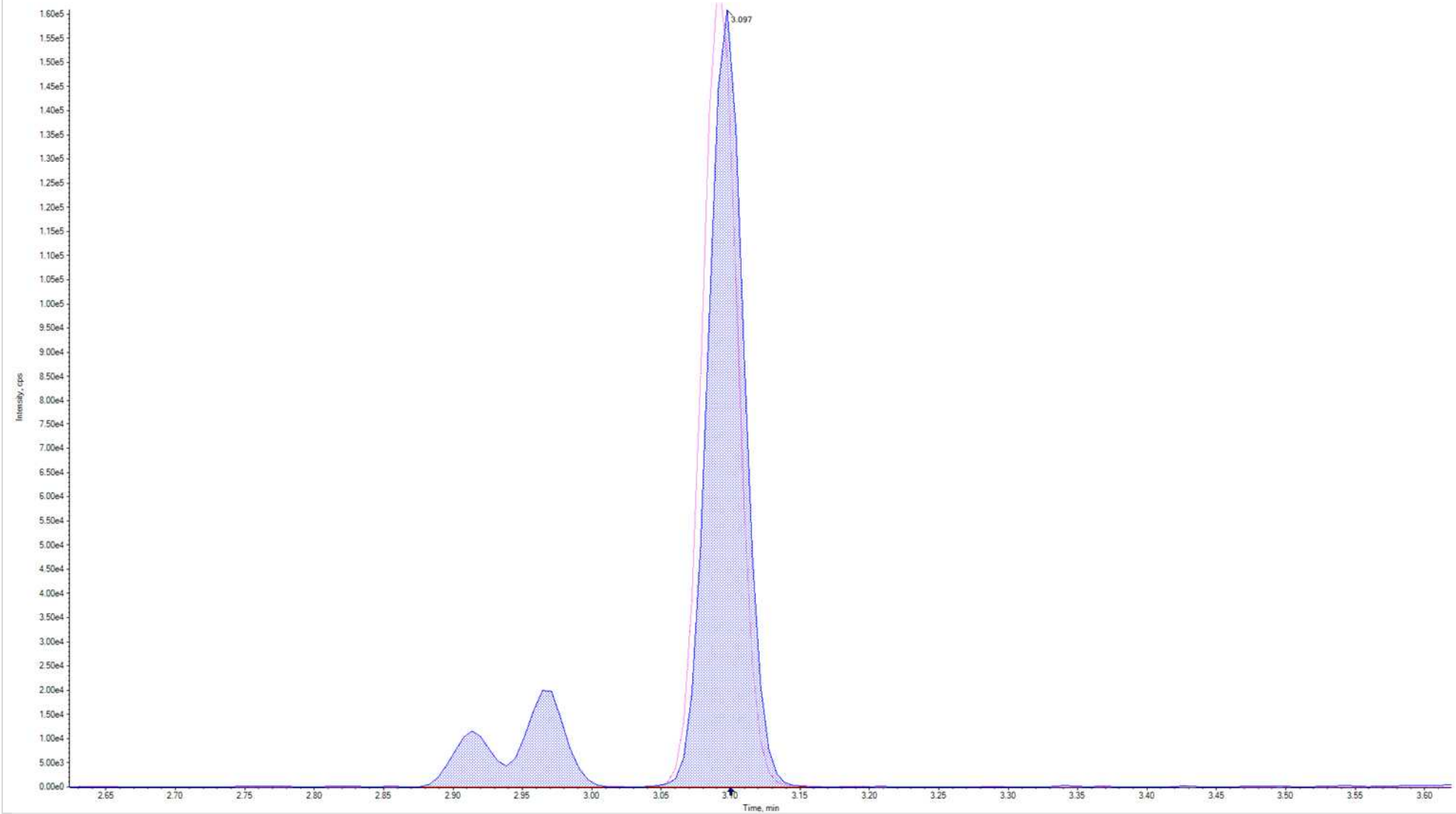
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFPeS_2
Sample: WG2038443-5 S/N:1234.9 Points Across peak:20



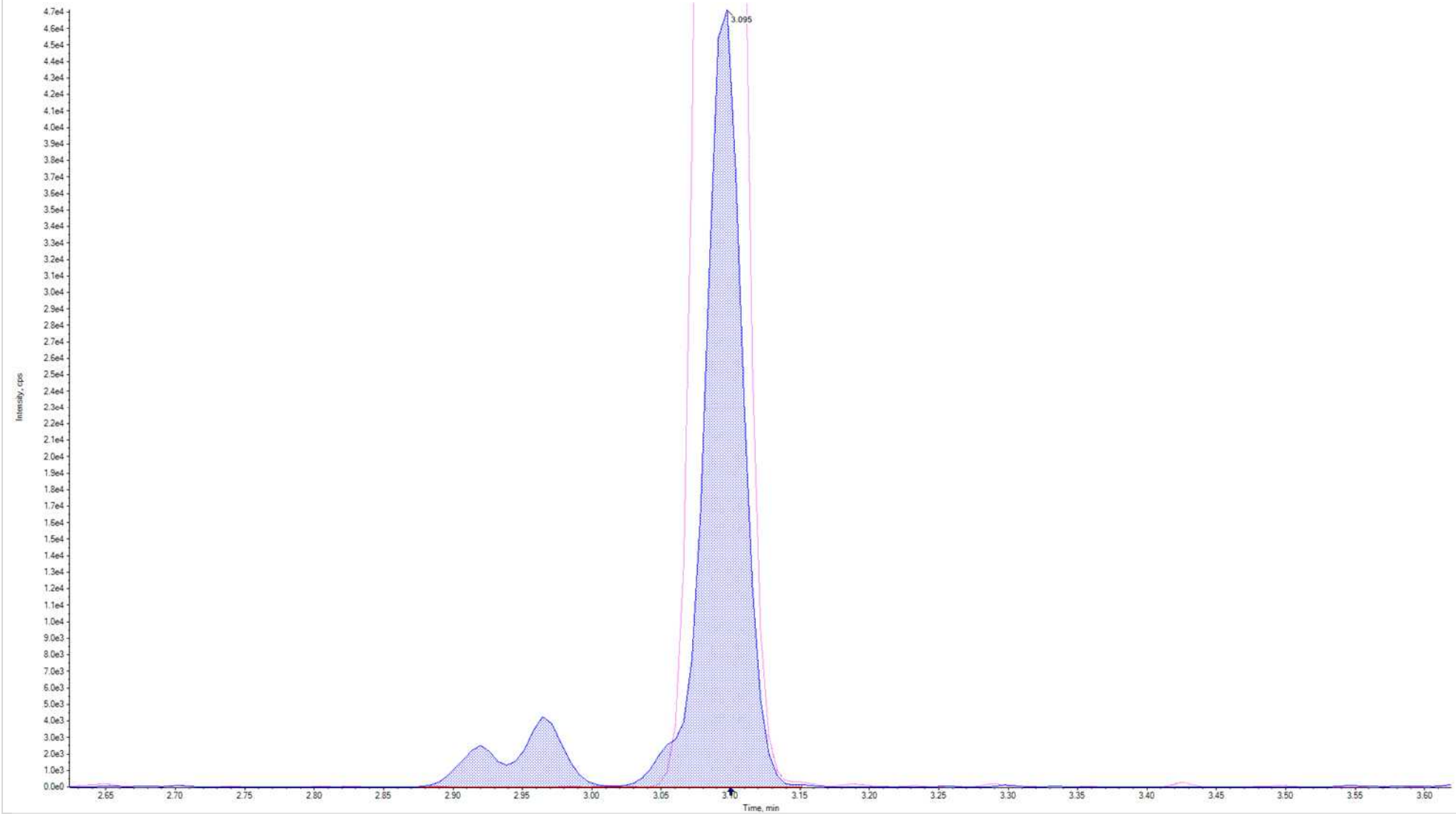
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PFHxS
Sample: WG2038443-5 S/N:728.8 Points Across peak:48



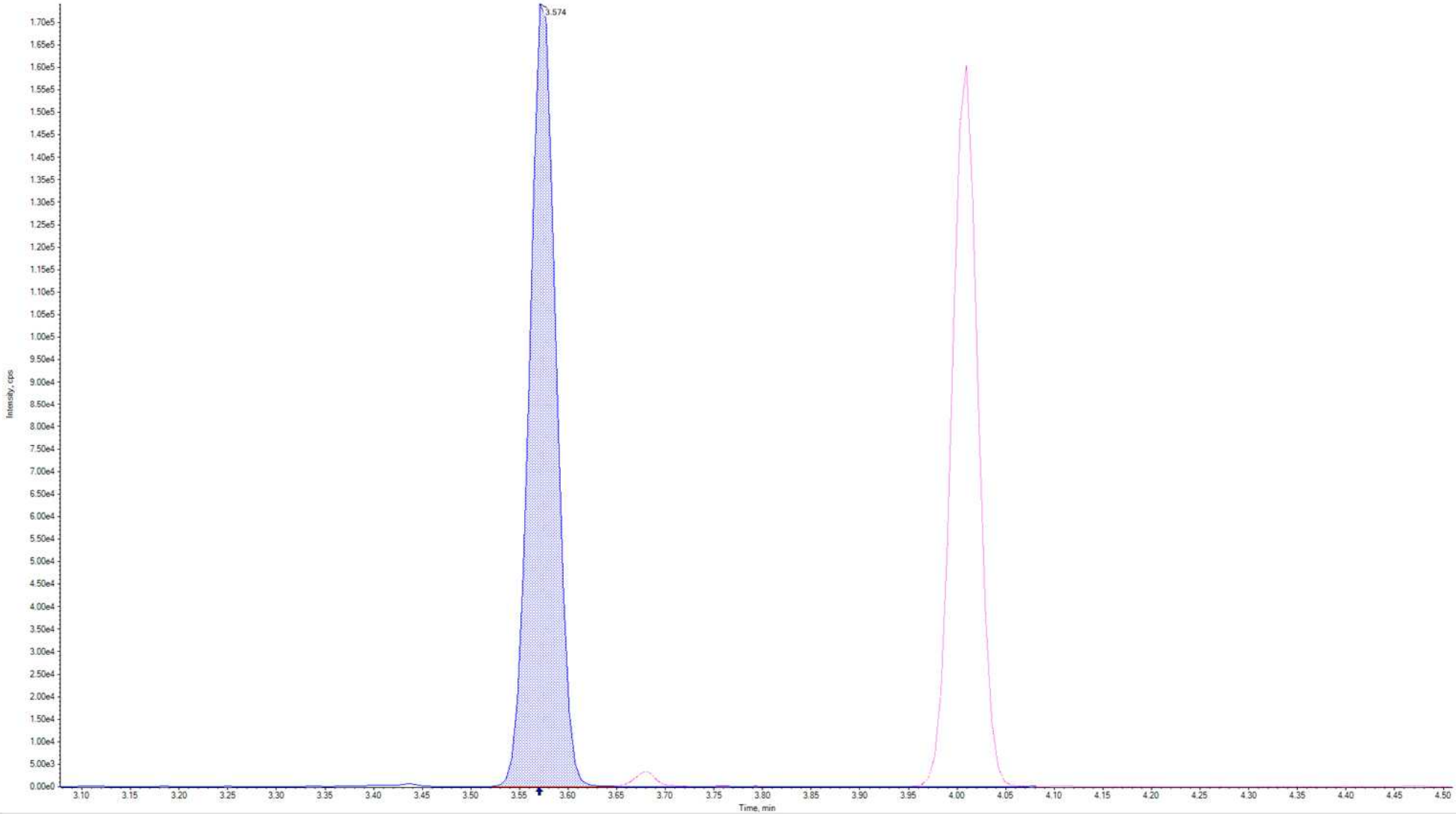
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

PFHxS_2
Sample: WG2038443-5 S/N:959.0 Points Across peak:47



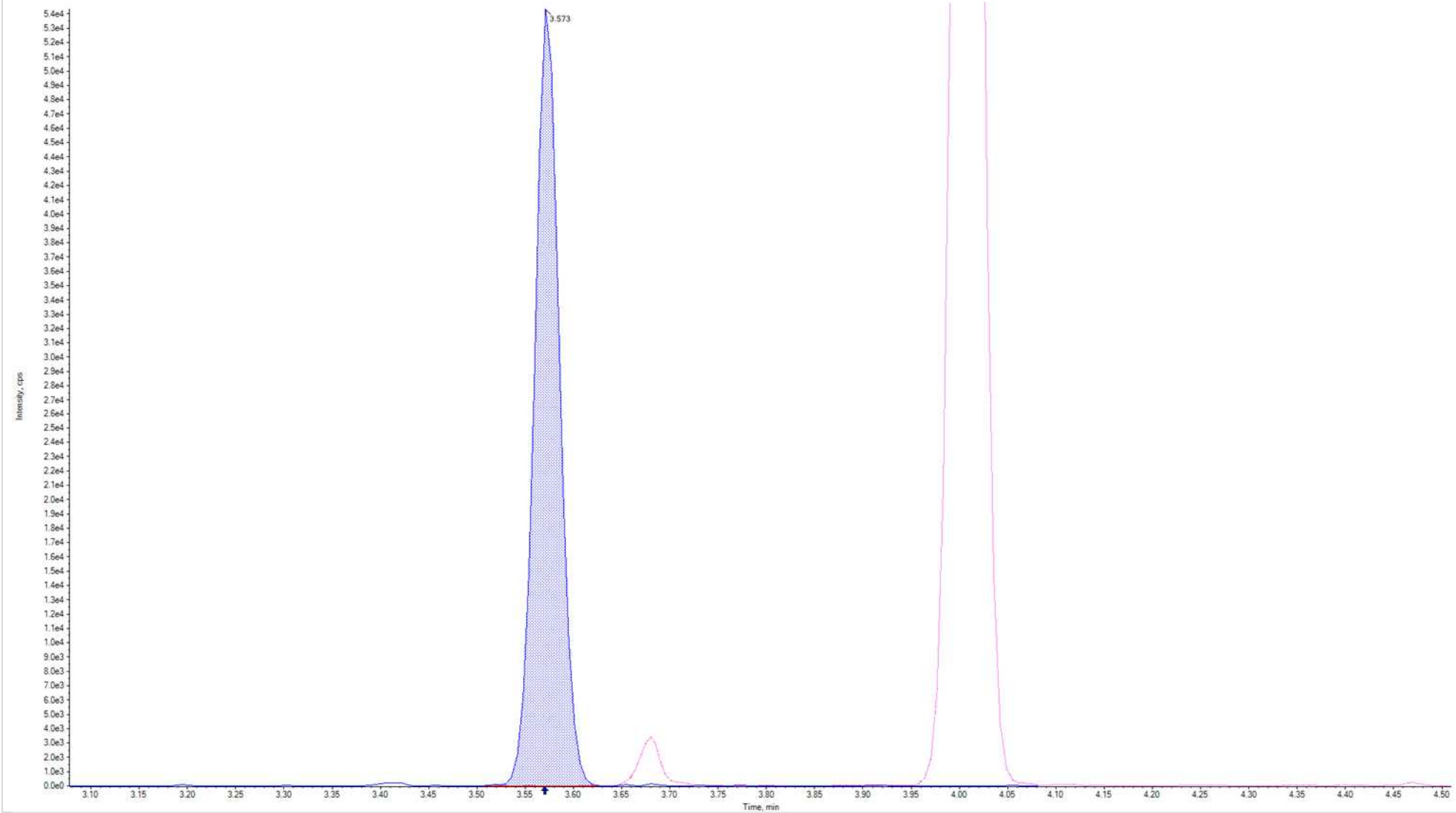
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PFHpS
Sample: WG2038443-5 S/N:3137.4 Points Across peak:25



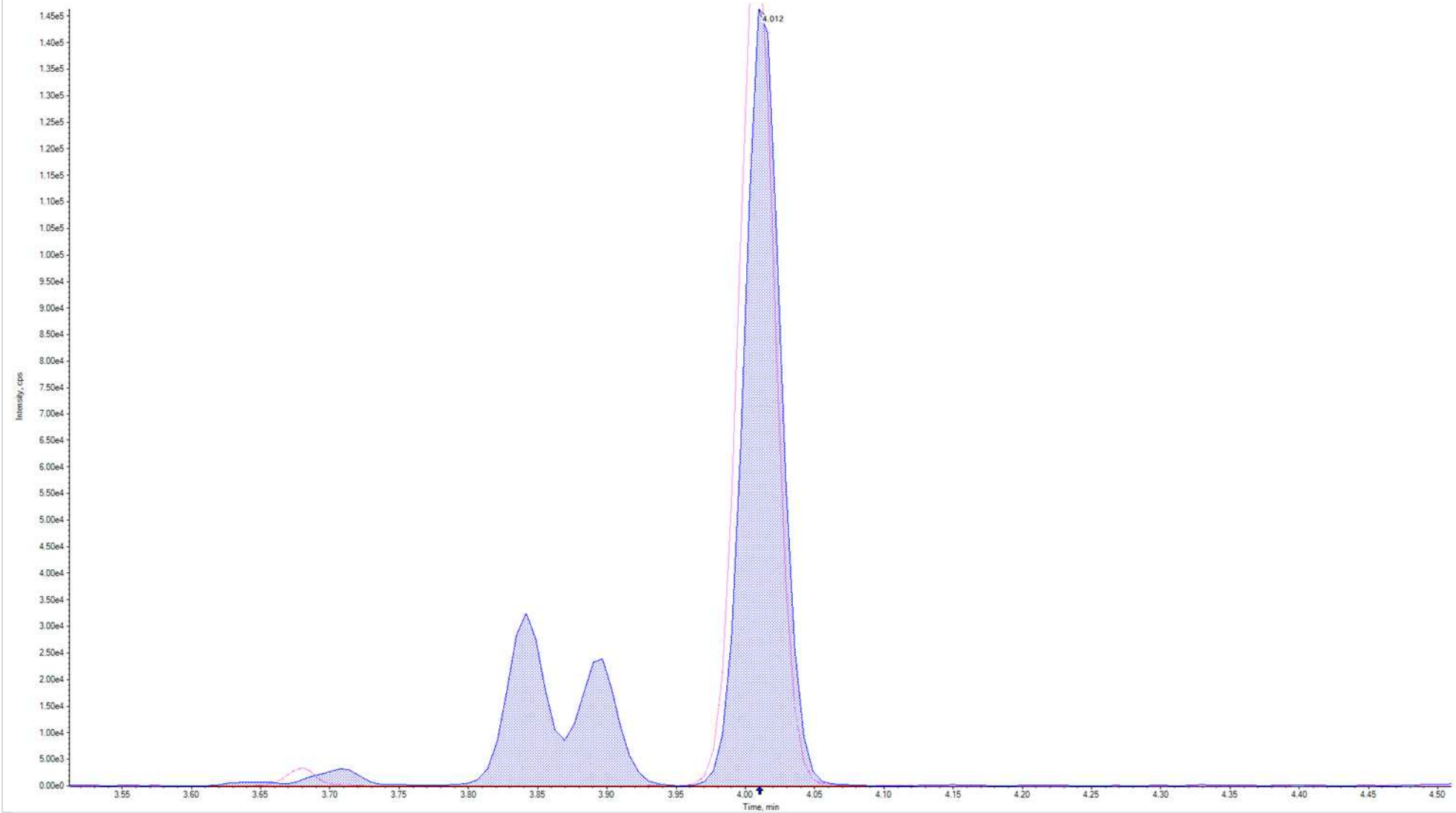
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PFHpS_2
Sample: WG2038443-5 S/N:1089.6 Points Across peak:26



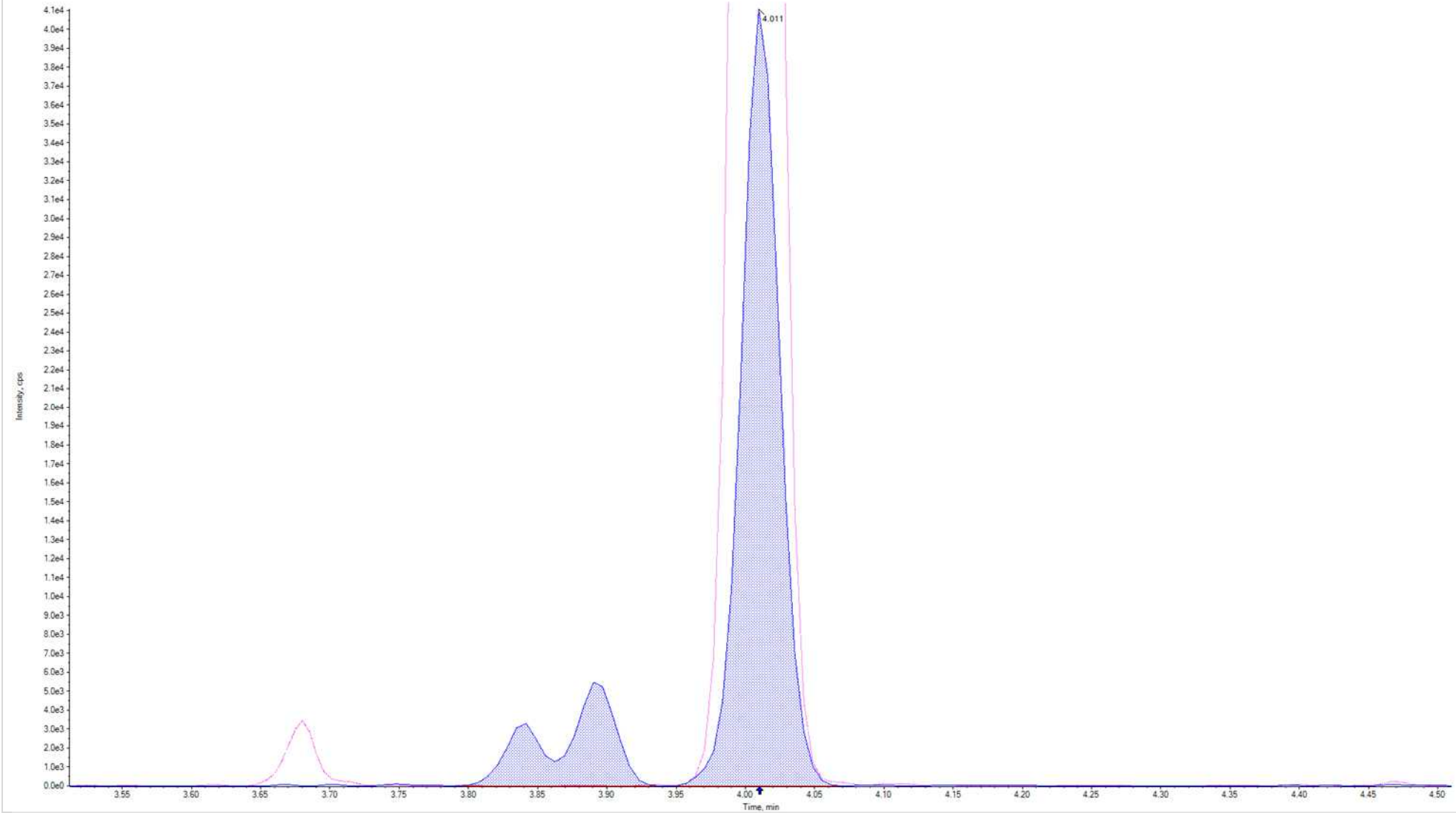
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PFOS
Sample: WG2038443-5 S/N:353.0 Points Across peak:80



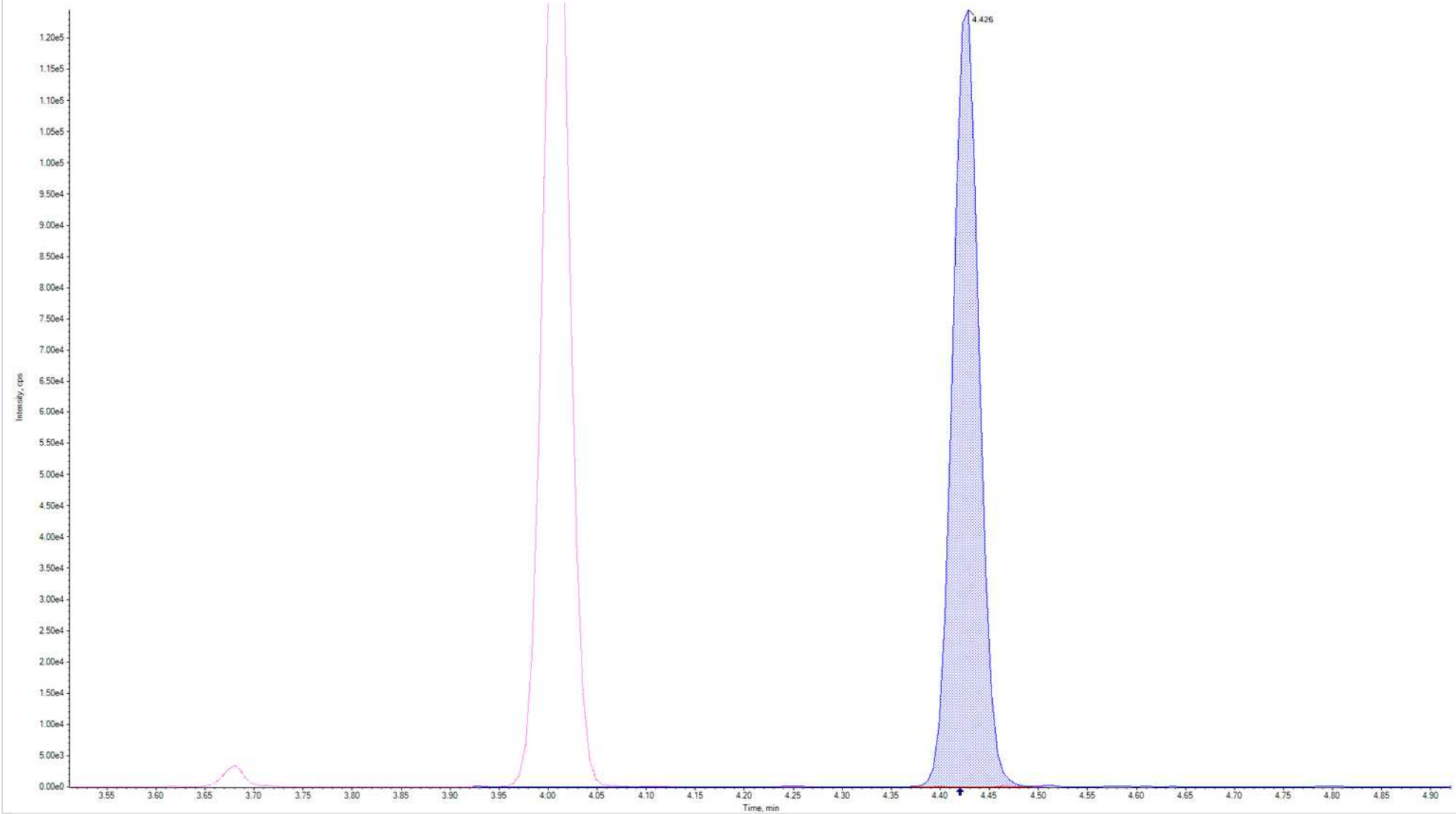
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Alpha Analytical LLC
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PFOS_2
Sample: WG2038443-5 S/N:700.1 Points Across peak:43



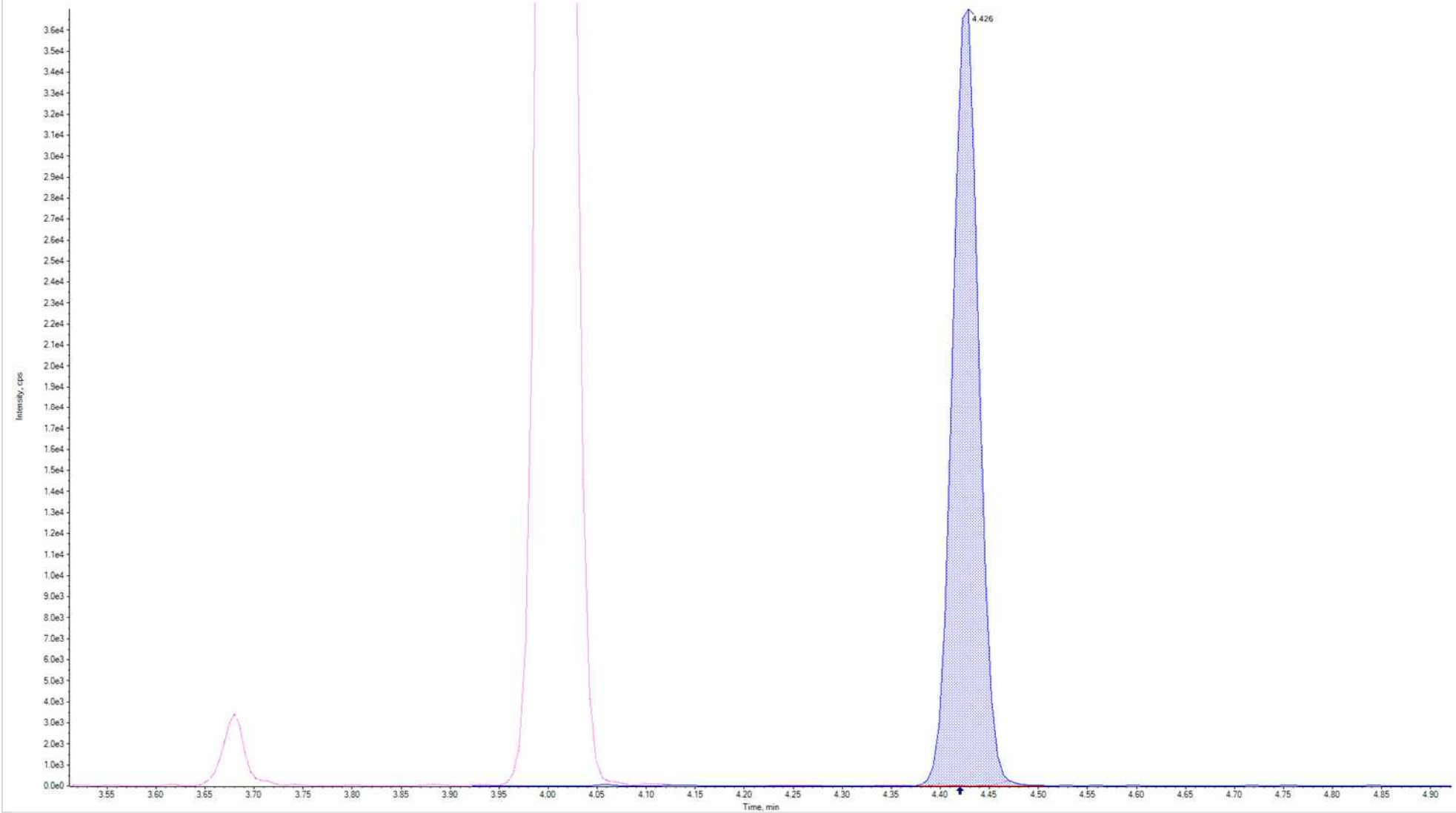
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Alpha Analytical LLC
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PFNS
Sample: WG2038443-5 S/N:3121.4 Points Across peak:25



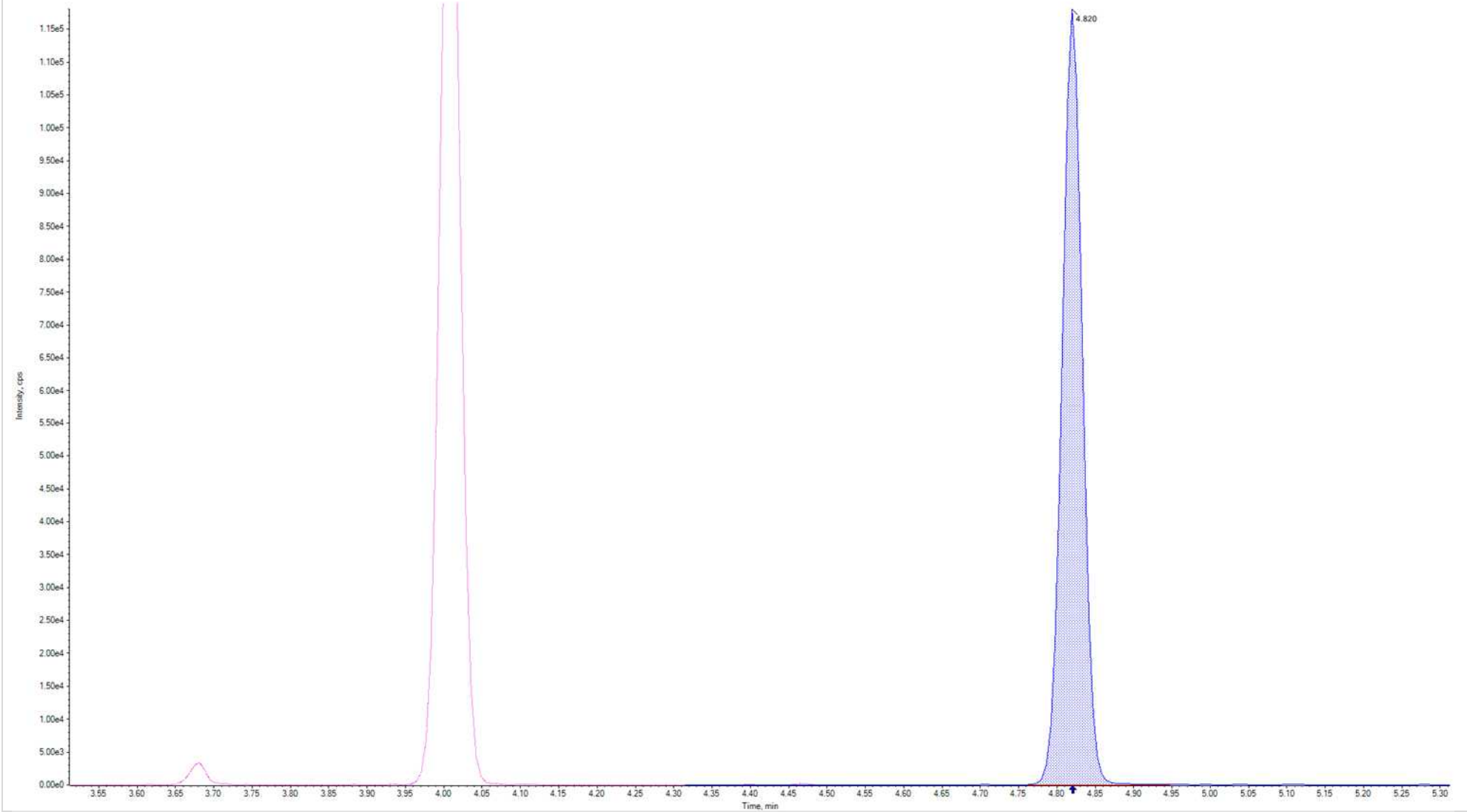
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Alpha Analytical LLC
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PFNS_2
Sample: WG2038443-5 S/N:927.4 Points Across peak:31



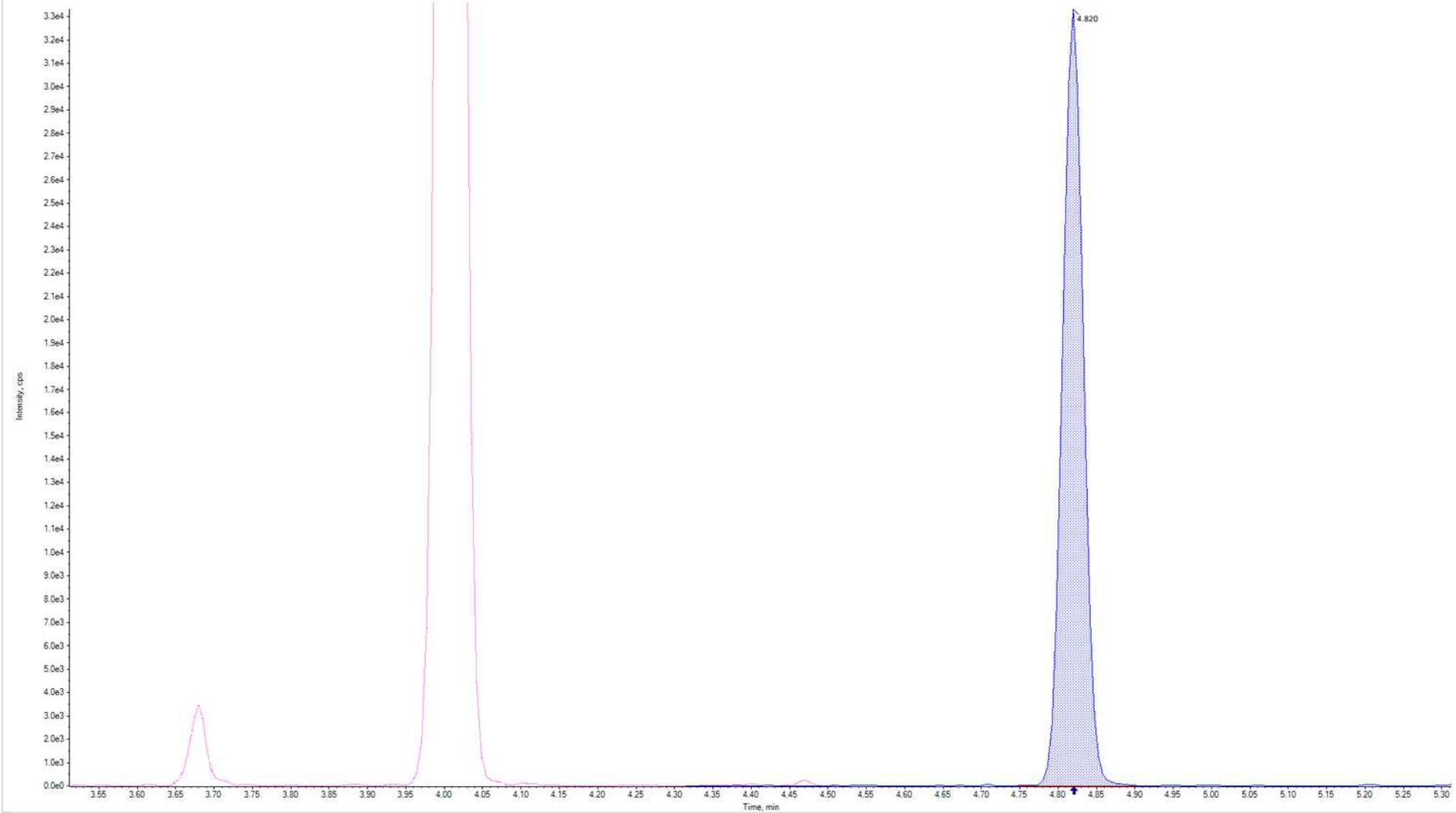
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Generated: 3/11/2025 12:26:59 PM

PFDS
Sample: WG2038443-5 S/N:3018.8 Points Across peak:35



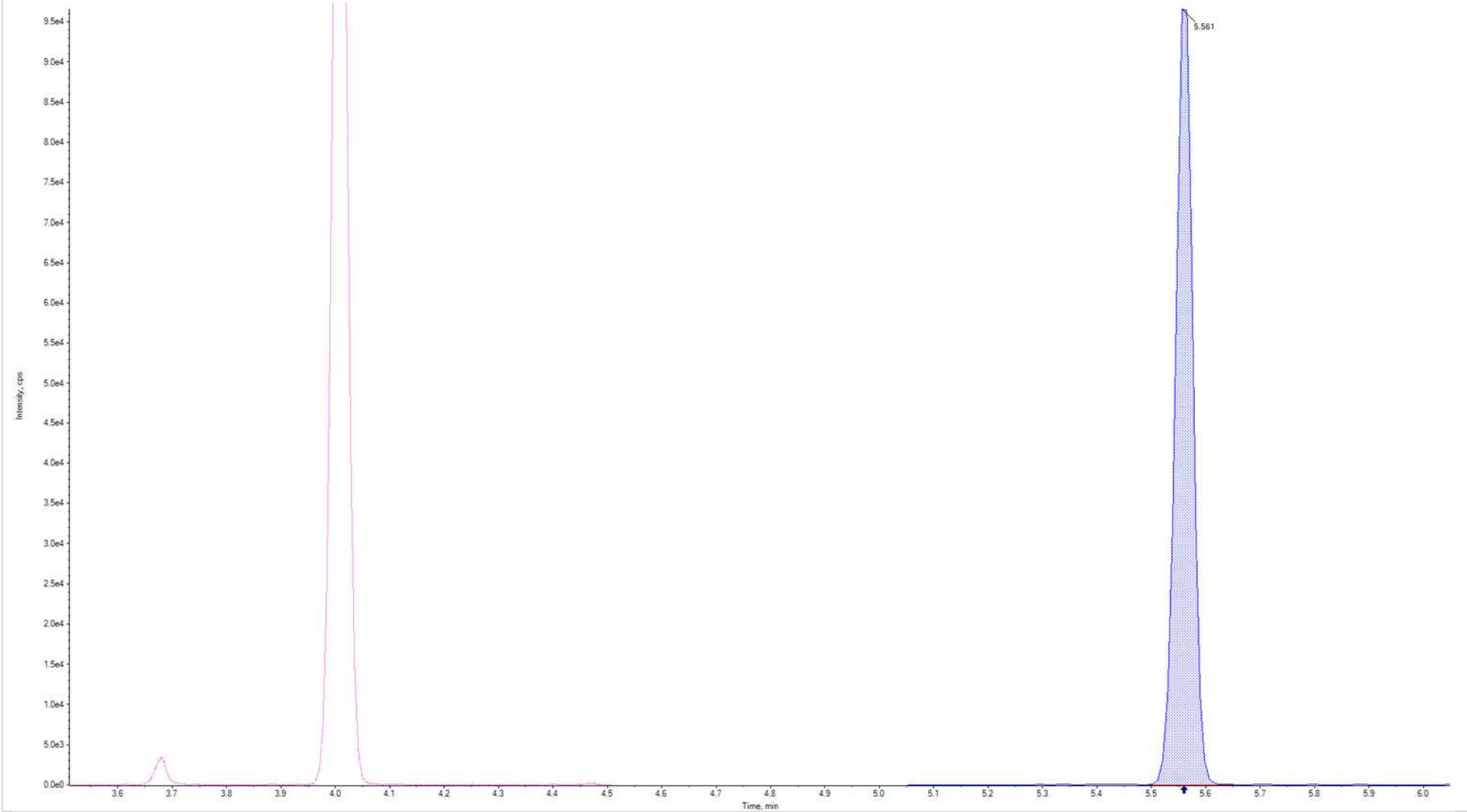
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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PFDS_2
Sample: WG2038443-5 S/N:1169.3 Points Across peak:33



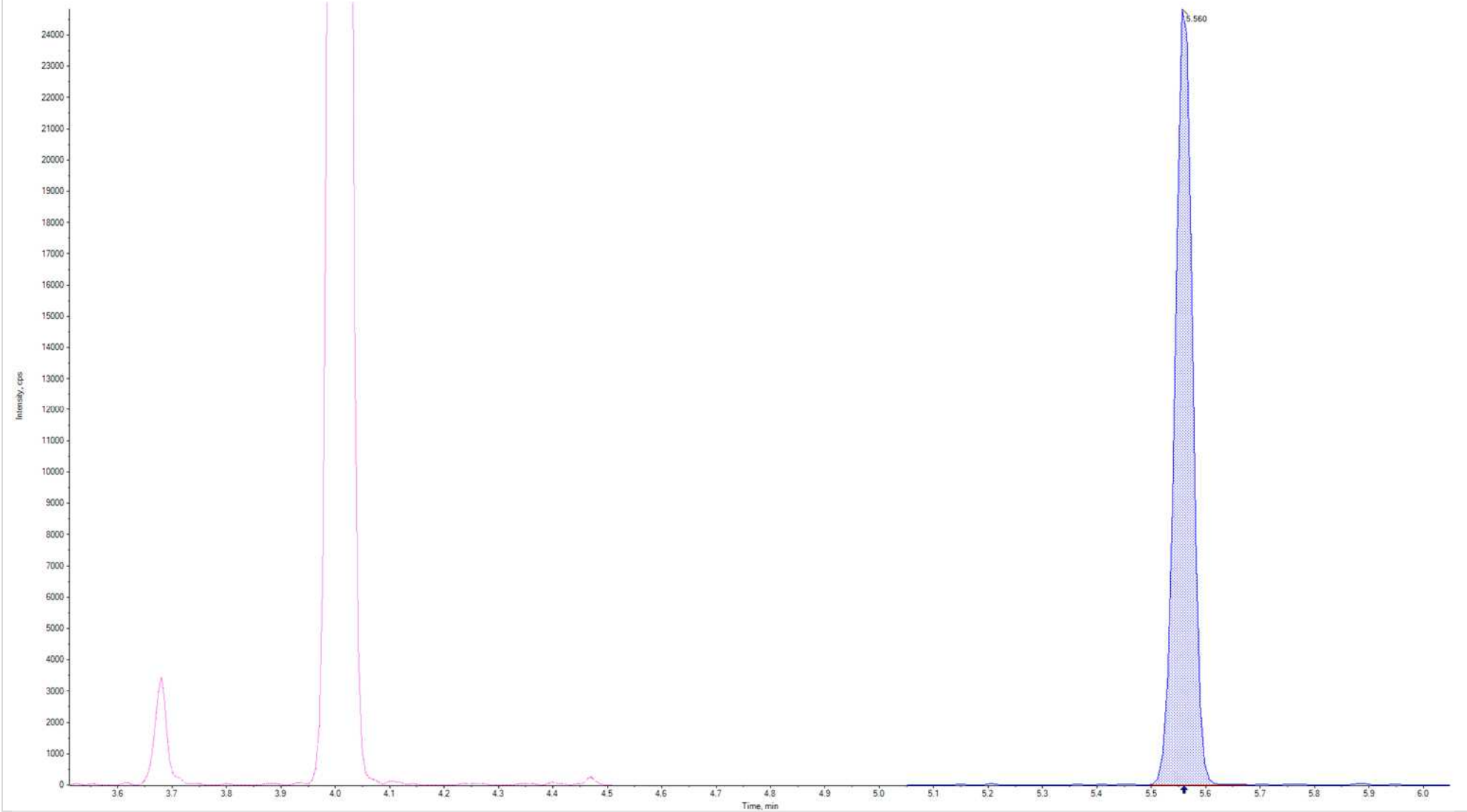
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Alpha Analytical LLC
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PFDoS
Sample: WG2038443-5 S/N:7501.6 Points Across peak:21



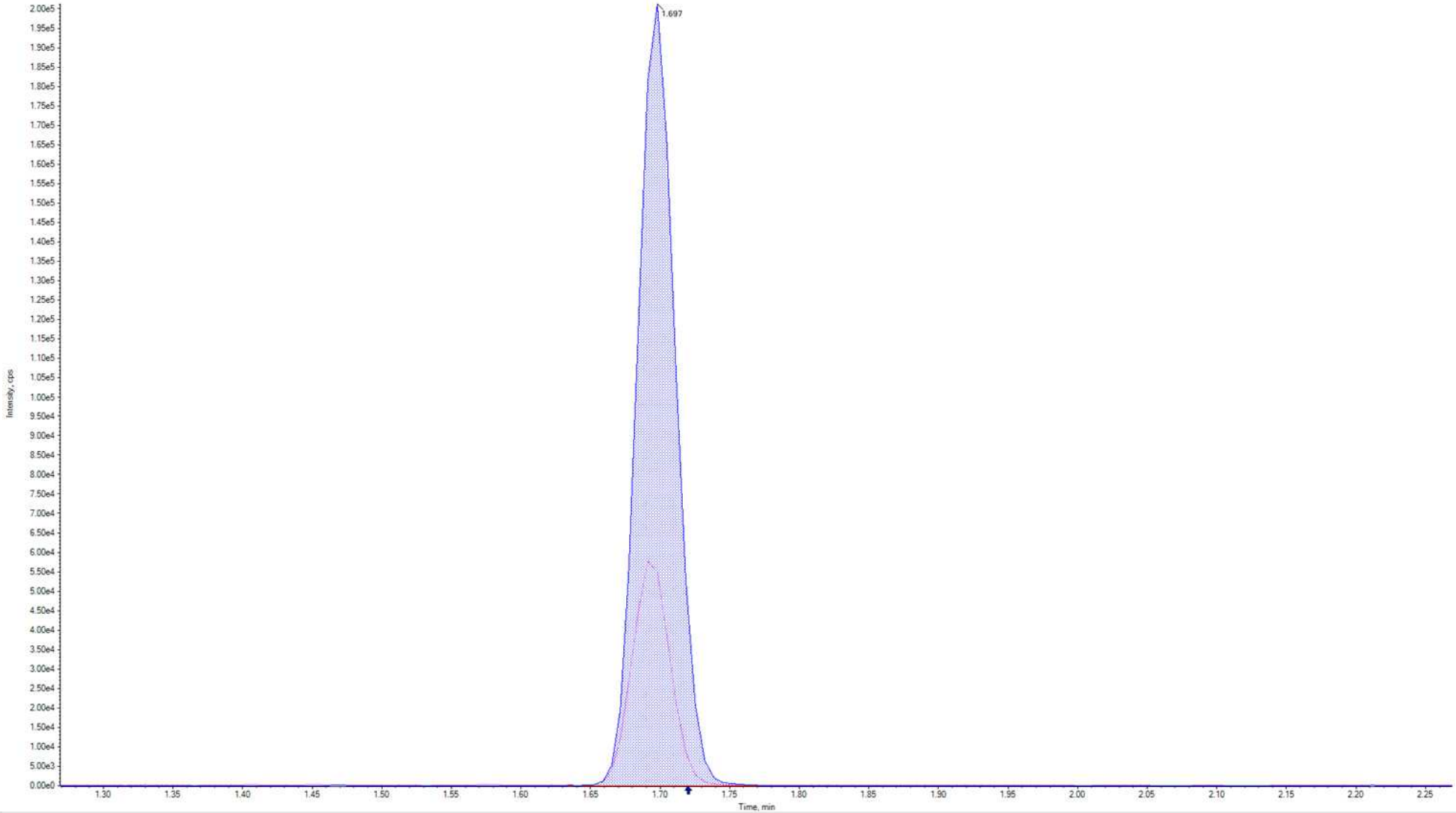
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFDoS_2
Sample: WG2038443-5 S/N:1421.5 Points Across peak:23



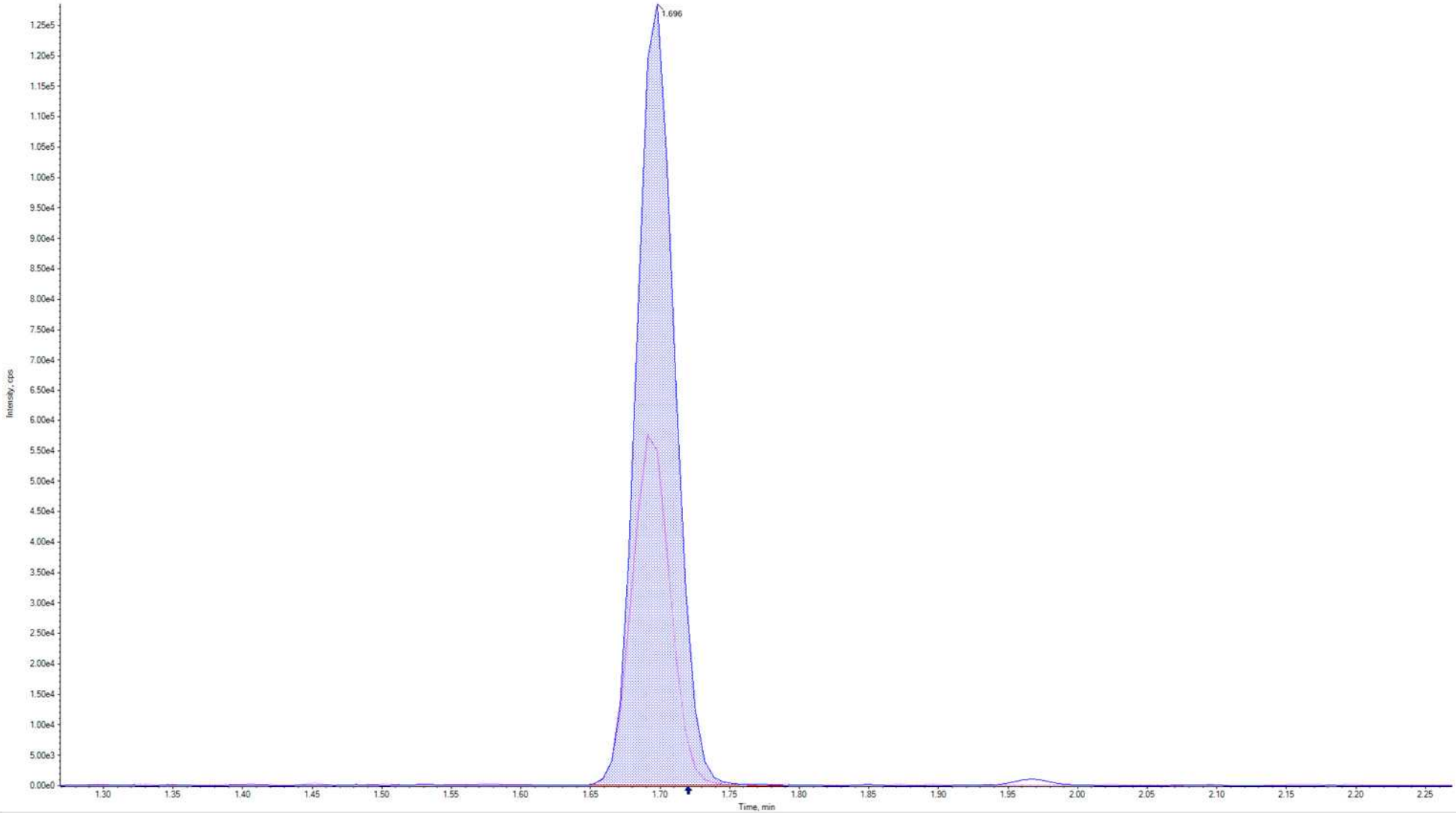
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Alpha Analytical LLC
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4:2FTS
Sample: WG2038443-5 S/N:4827.3 Points Across peak:29



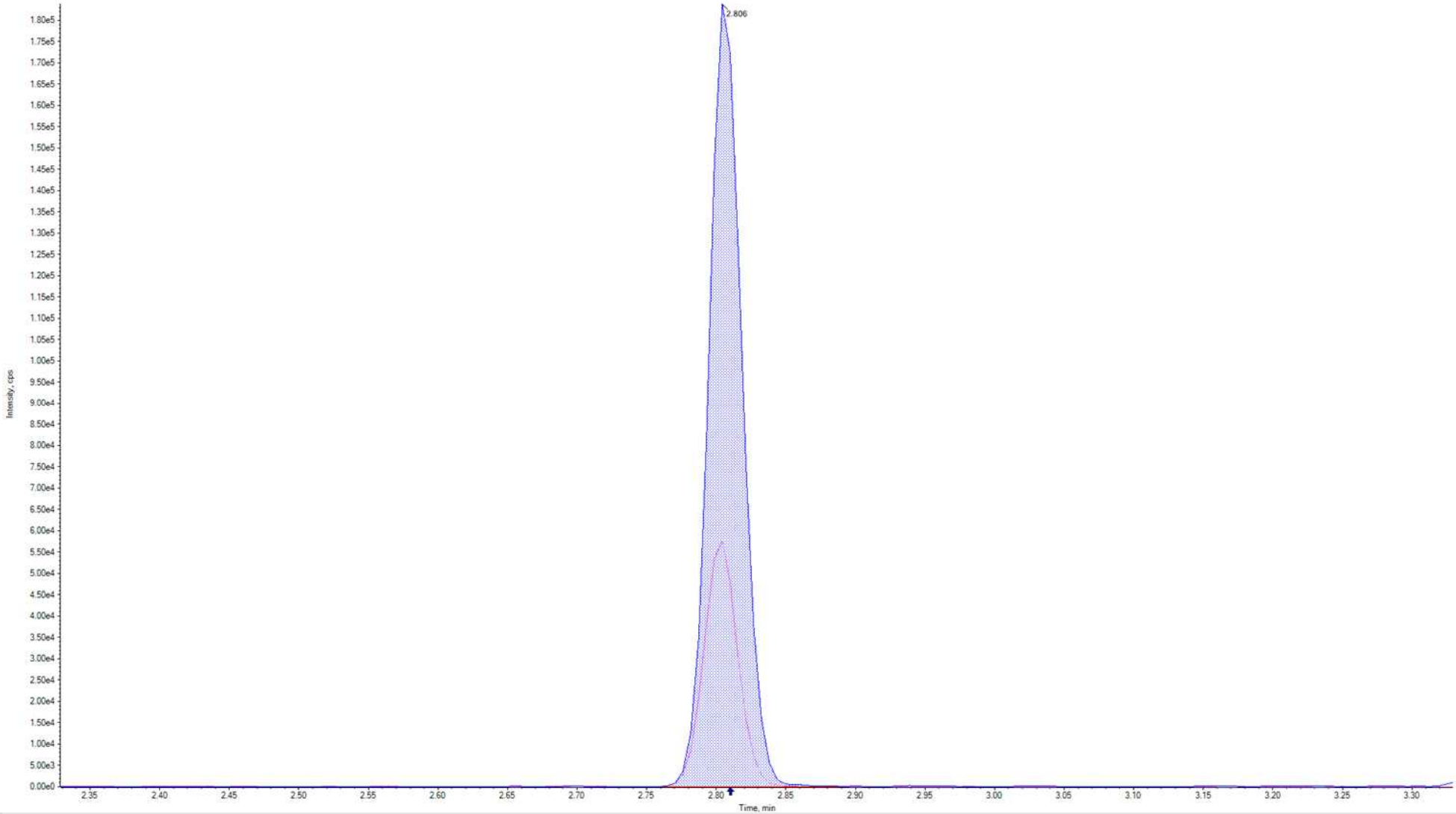
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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4:2FTS_2
Sample: WG2038443-5 S/N:4830.5 Points Across peak:25



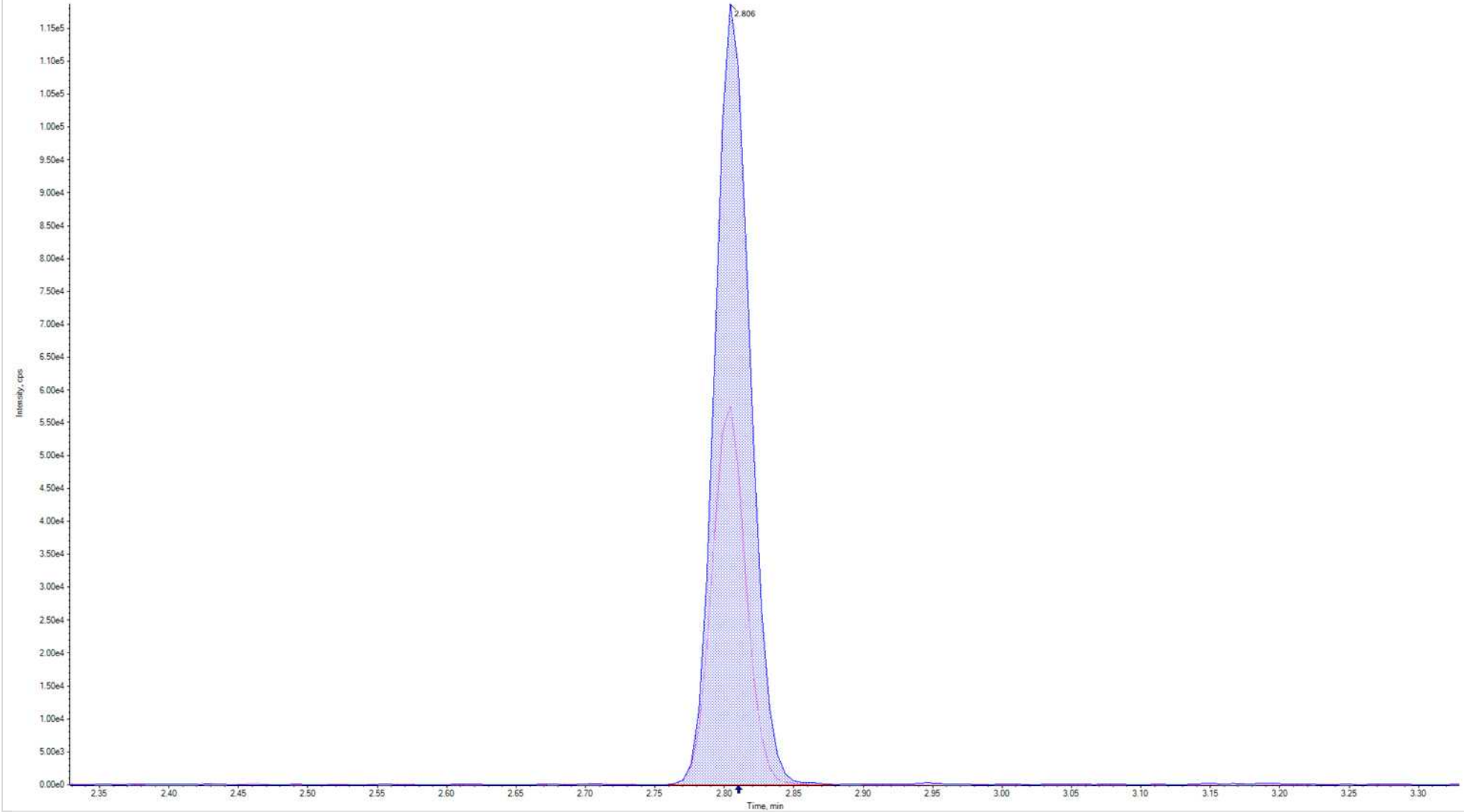
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_56.wiff2_15
Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

6:2FTS
Sample: WG2038443-5 S/N:2766.6 Points Across peak:27



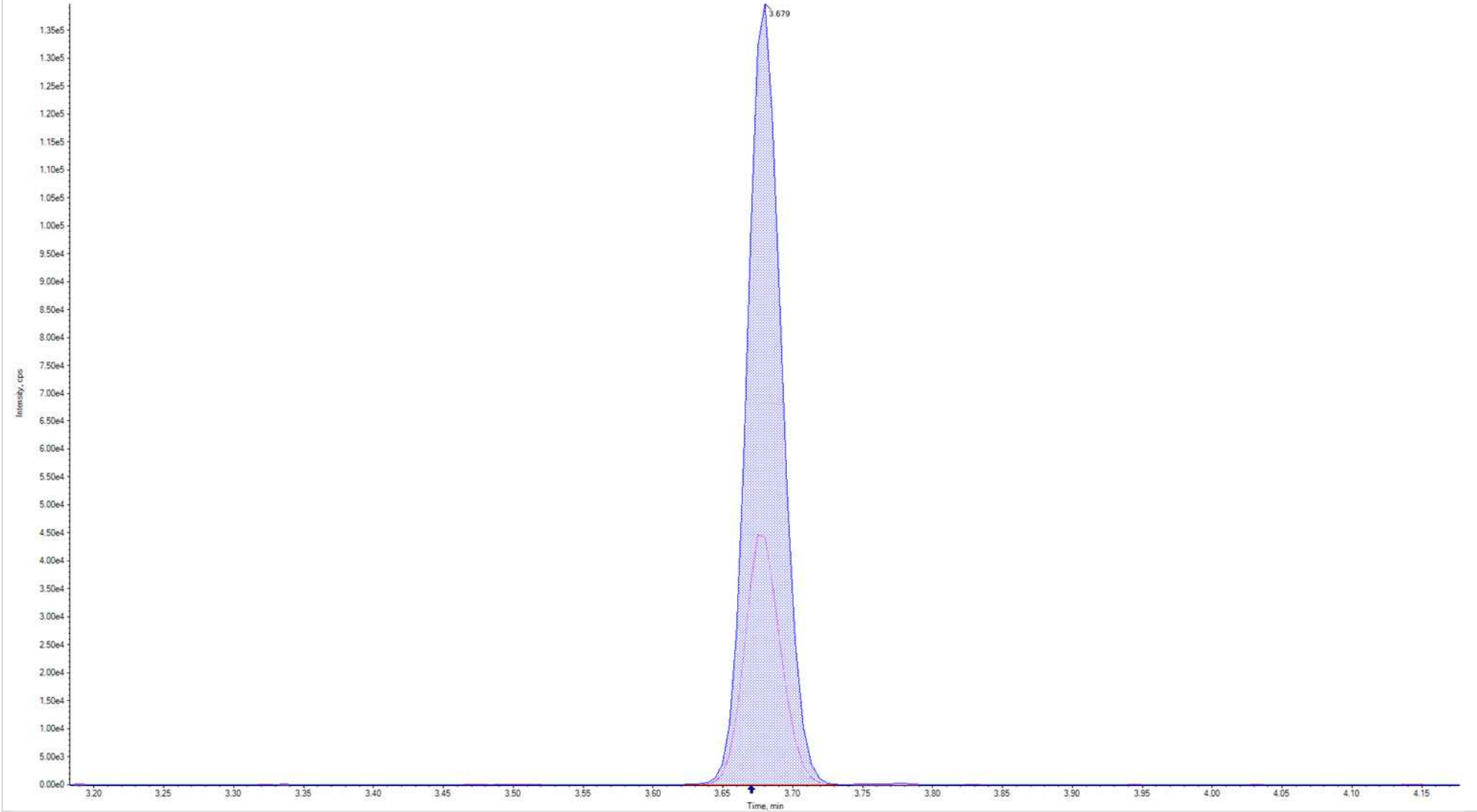
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_56.wiff2_15
Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

6:2FTS_2
Sample: WG2038443-5 S/N:2379.9 Points Across peak:23



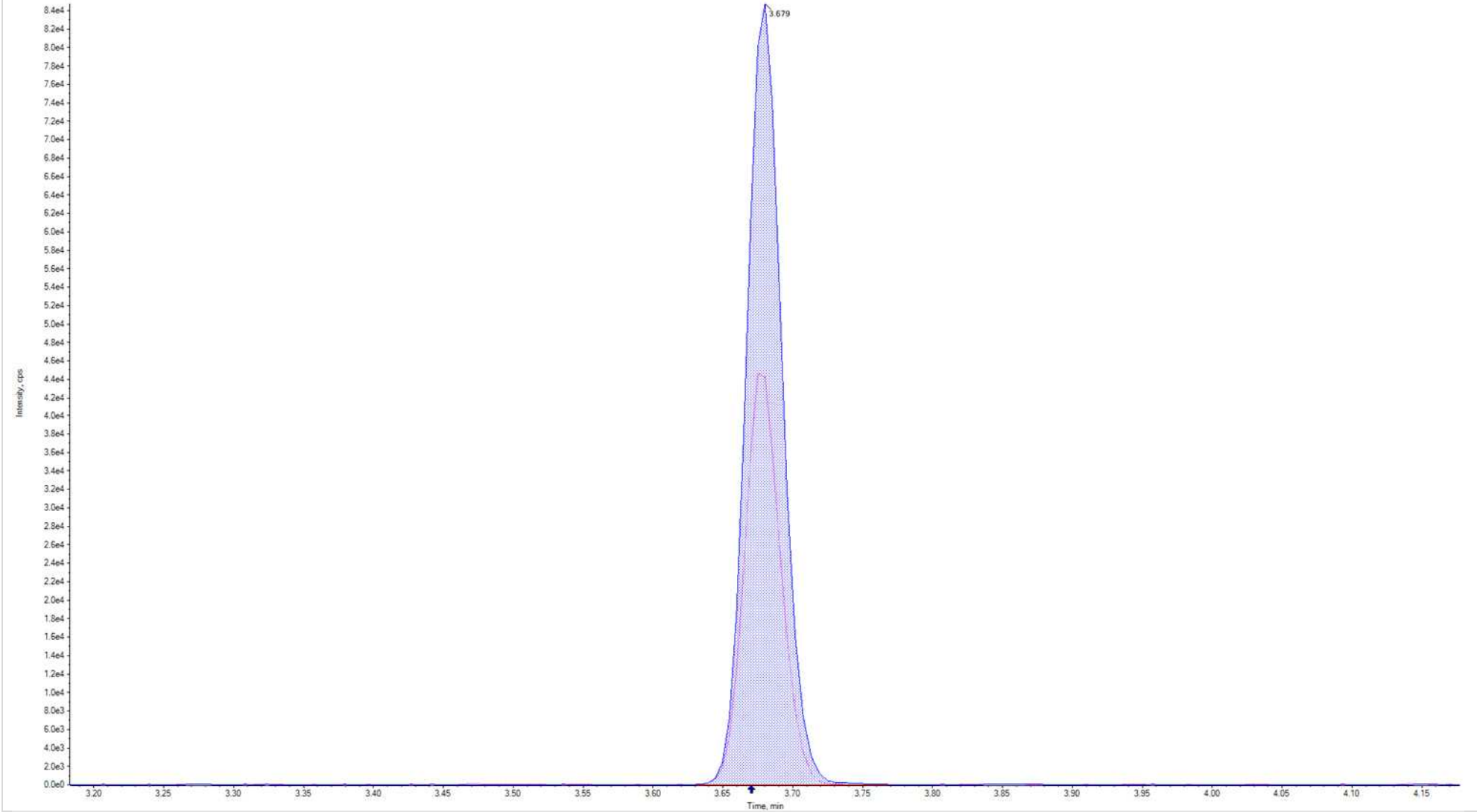
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_56.wiff2_15
Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

8:2FTS
Sample: WG2038443-5 S/N:2802.0 Points Across peak:25



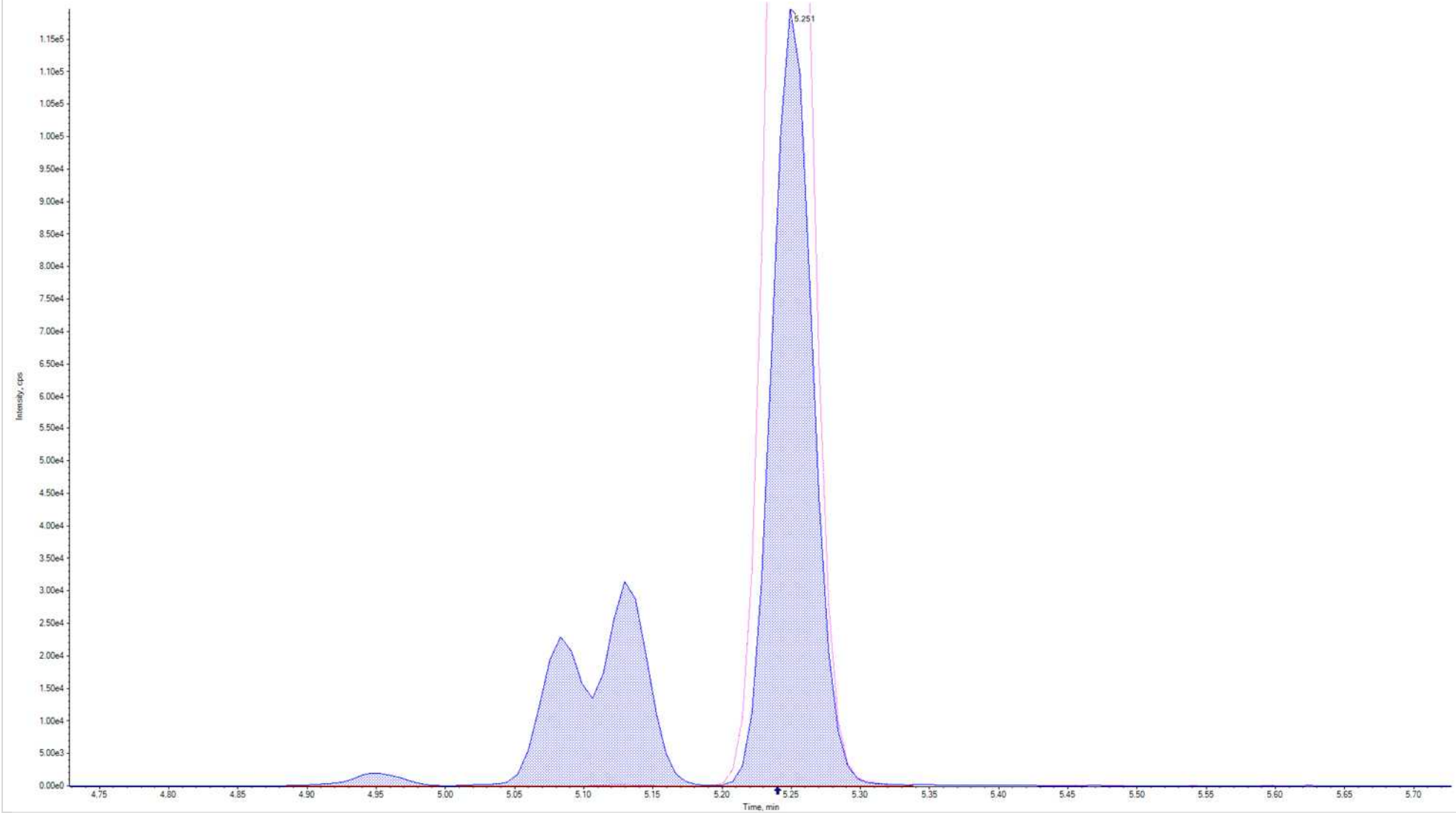
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

8:2FTS_2
Sample: WG2038443-5 S/N:1699.1 Points Across peak:32



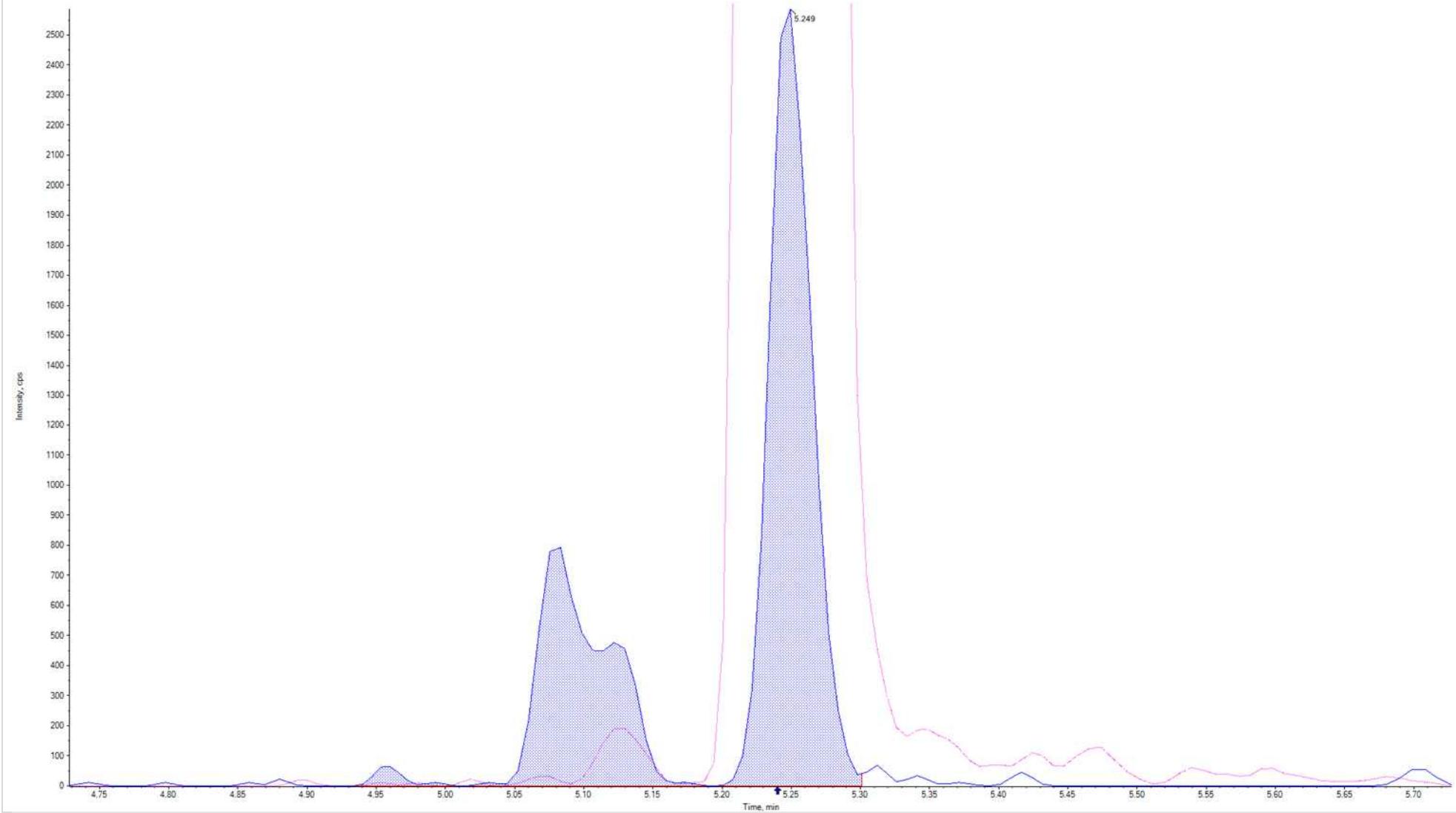
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFOSA
Sample: WG2038443-5 S/N:323.4 Points Across peak:68



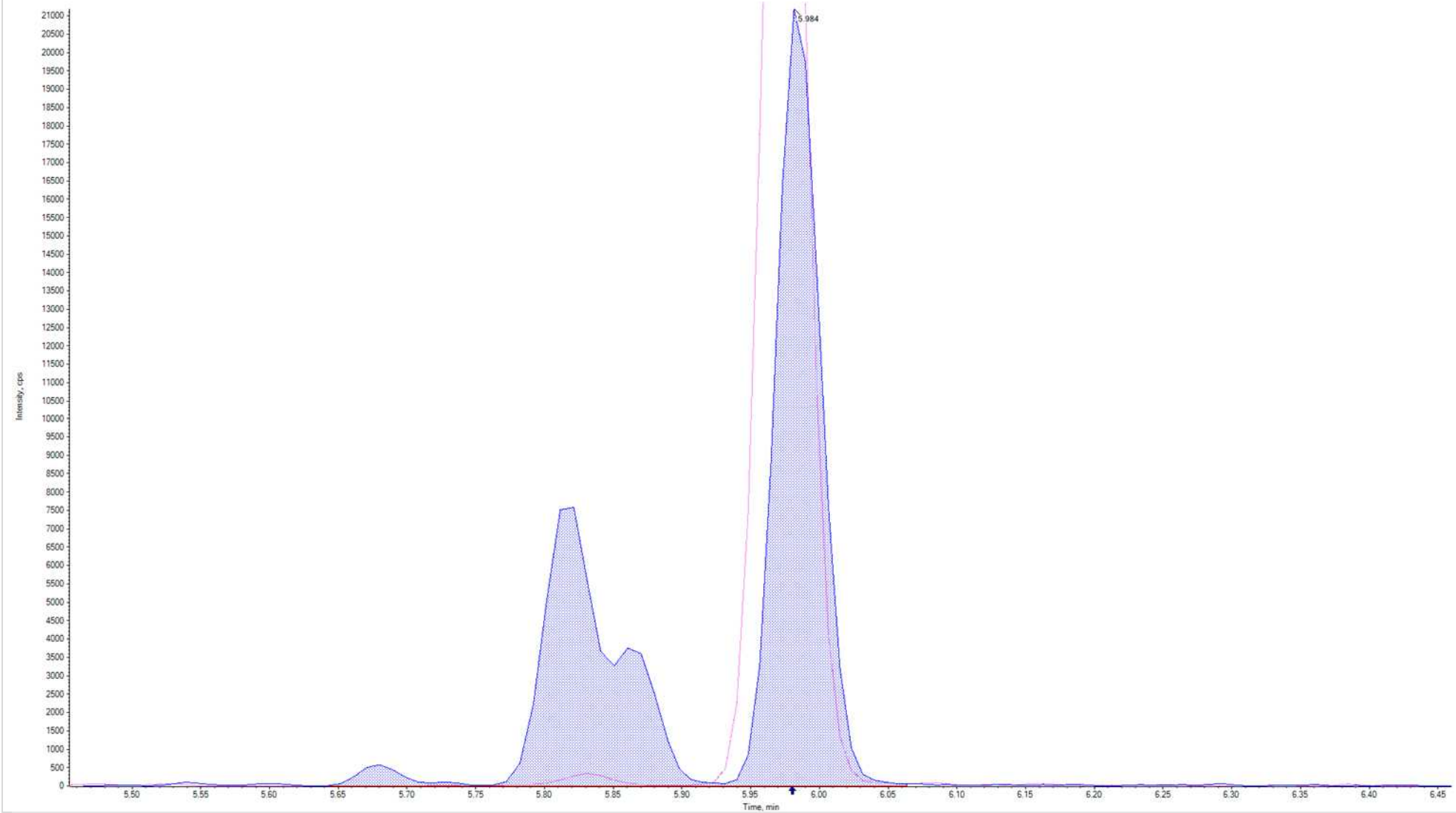
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_56.wiff2_15
Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFOSA_2
Sample: WG2038443-5 S/N:177.9 Points Across peak:55



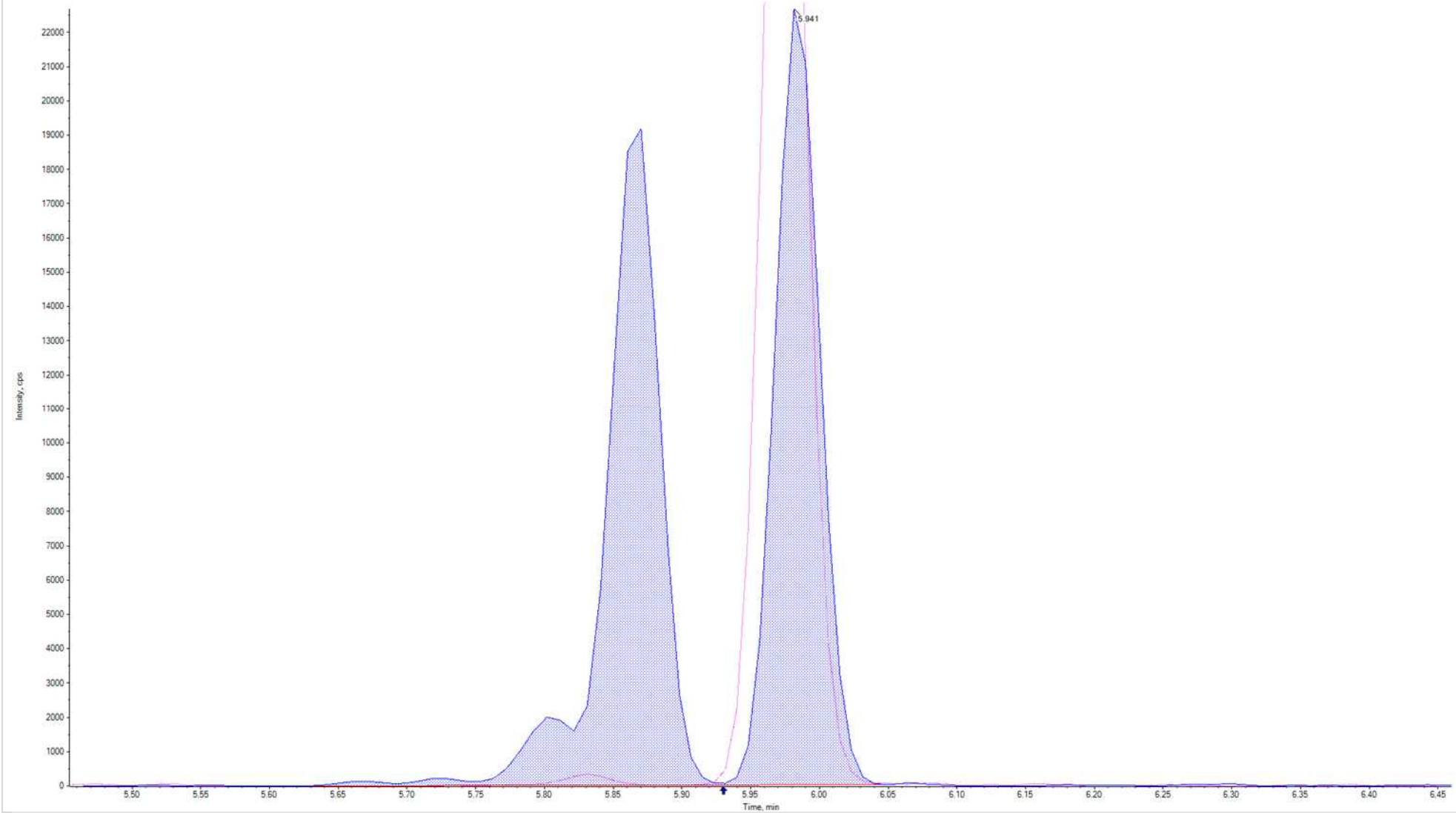
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
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NMeFOSA
Sample: WG2038443-5 S/N:300.9 Points Across peak:50



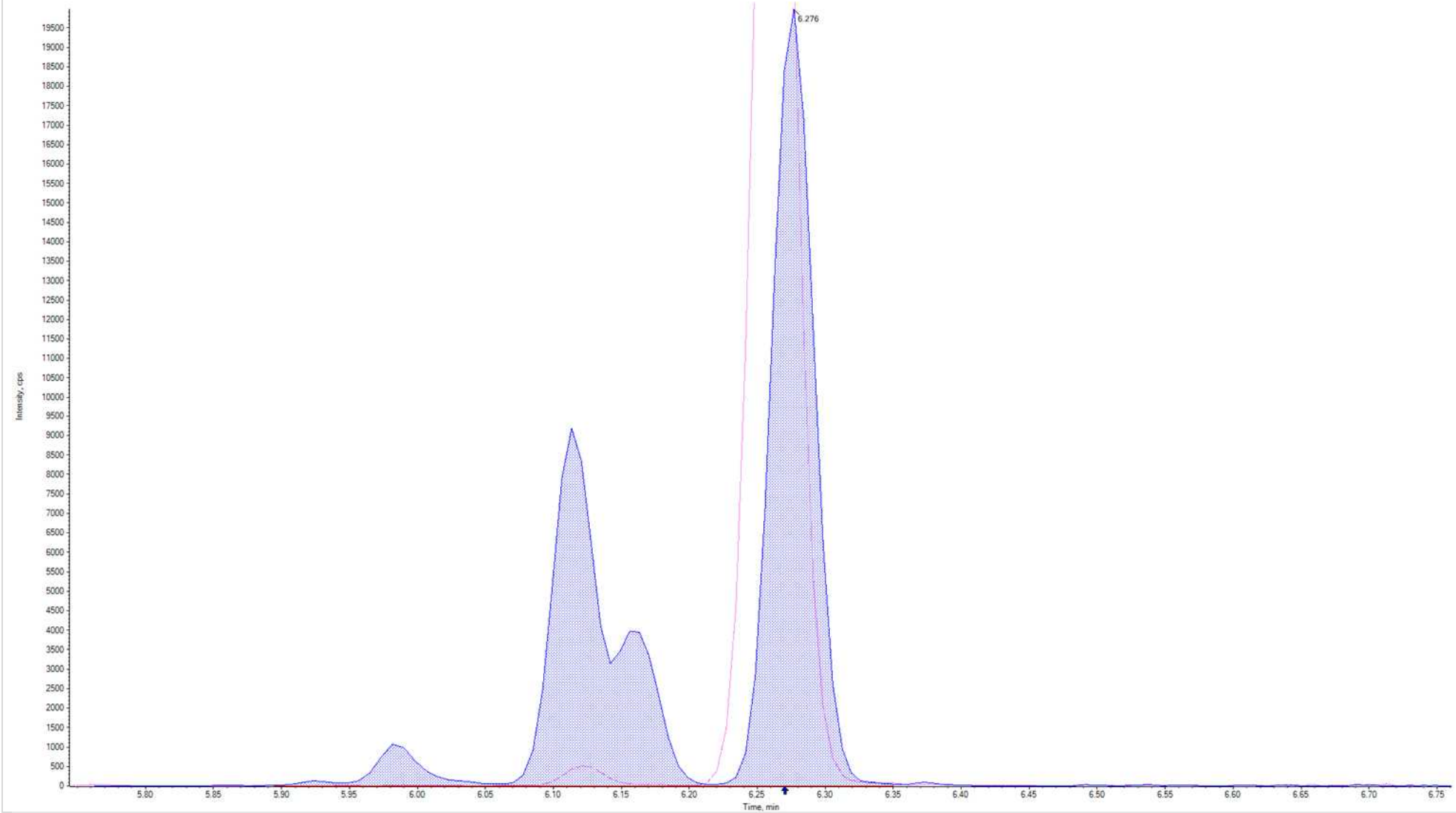
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

NMeFOSA_2
Sample: WG2038443-5 S/N:250.7 Points Across peak:49



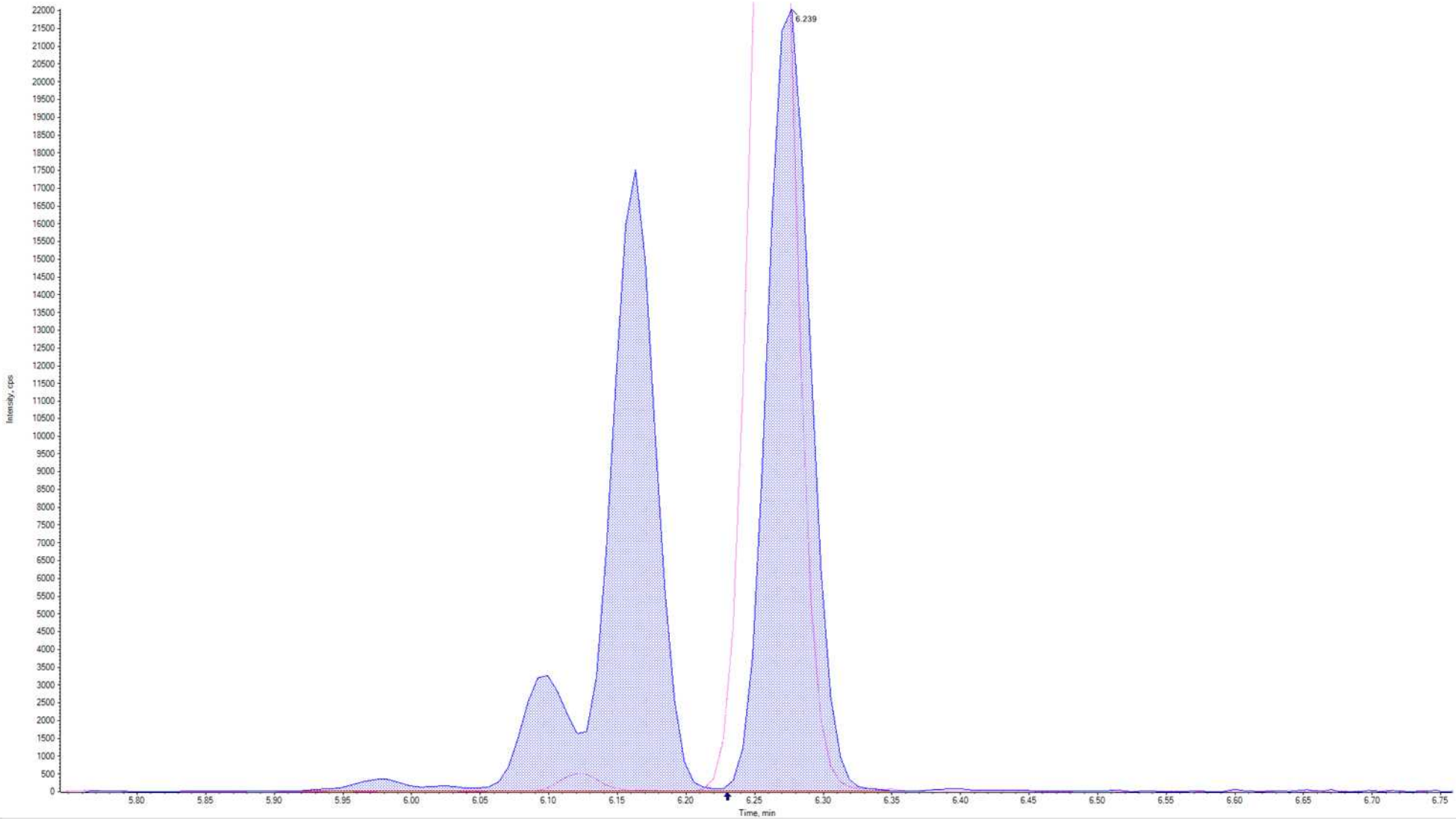
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Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_56.wiff2_15
Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

NEtFOSA
Sample: WG2038443-5 S/N:528.0 Points Across peak:64



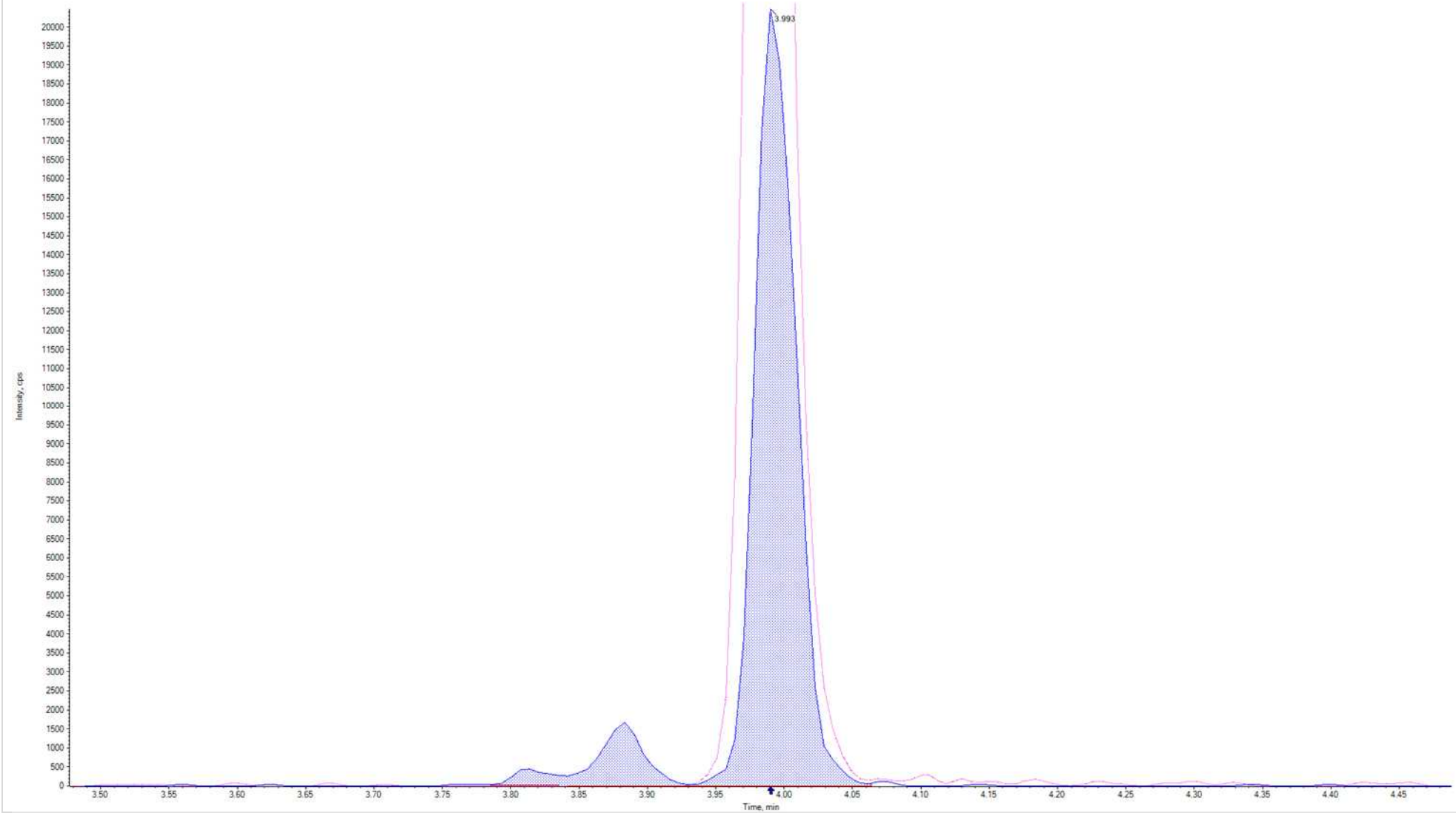
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\250311\SCI09_250311_56.wiff2_15
Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

NEtFOSA_2
Sample: WG2038443-5 S/N:478.5 Points Across peak:62



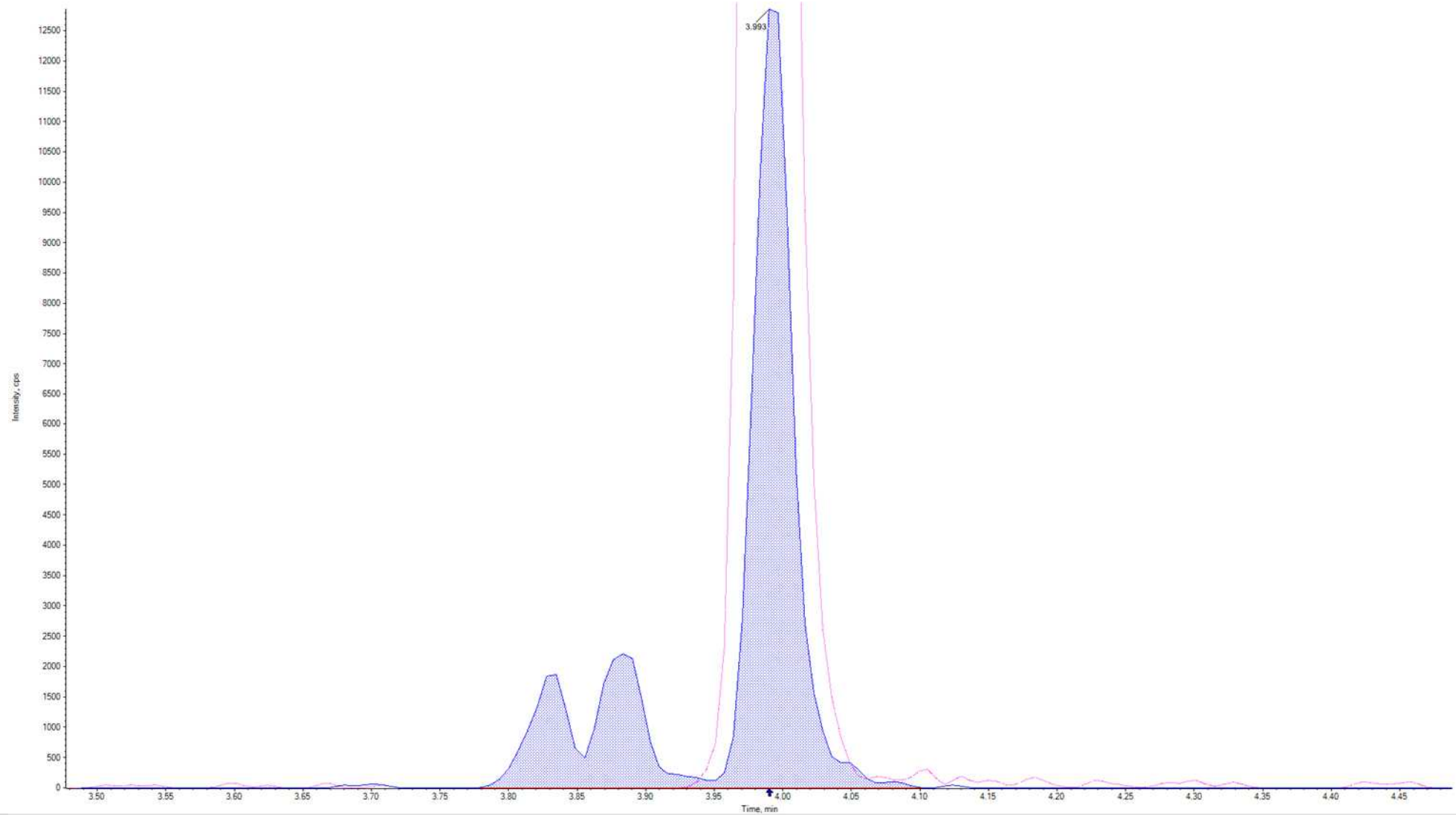
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

NMeFOSAA
Sample: WG2038443-5 S/N:410.5 Points Across peak:44



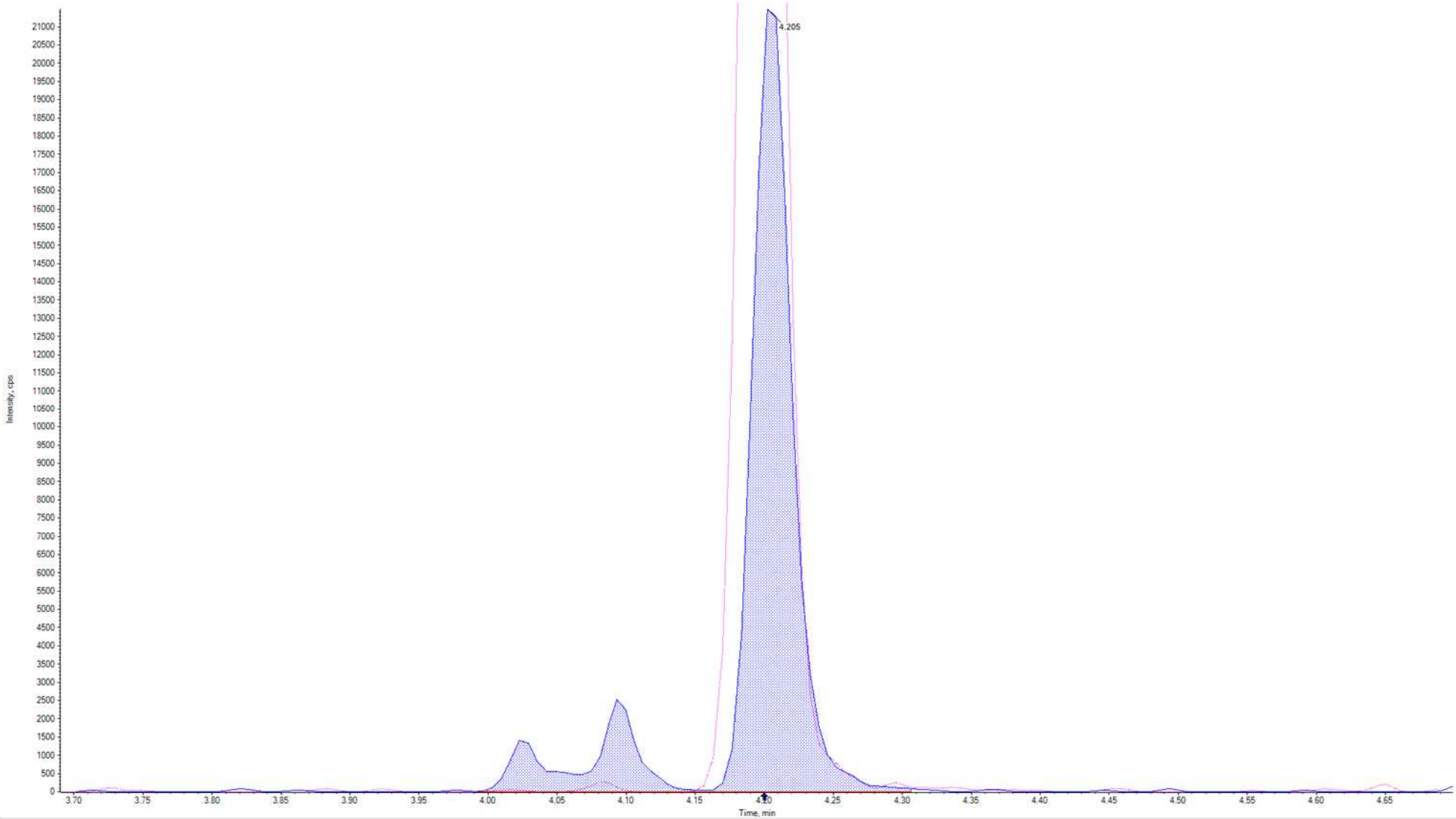
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

NMeFOSAA_2
Sample: WG2038443-5 S/N:257.8 Points Across peak:52



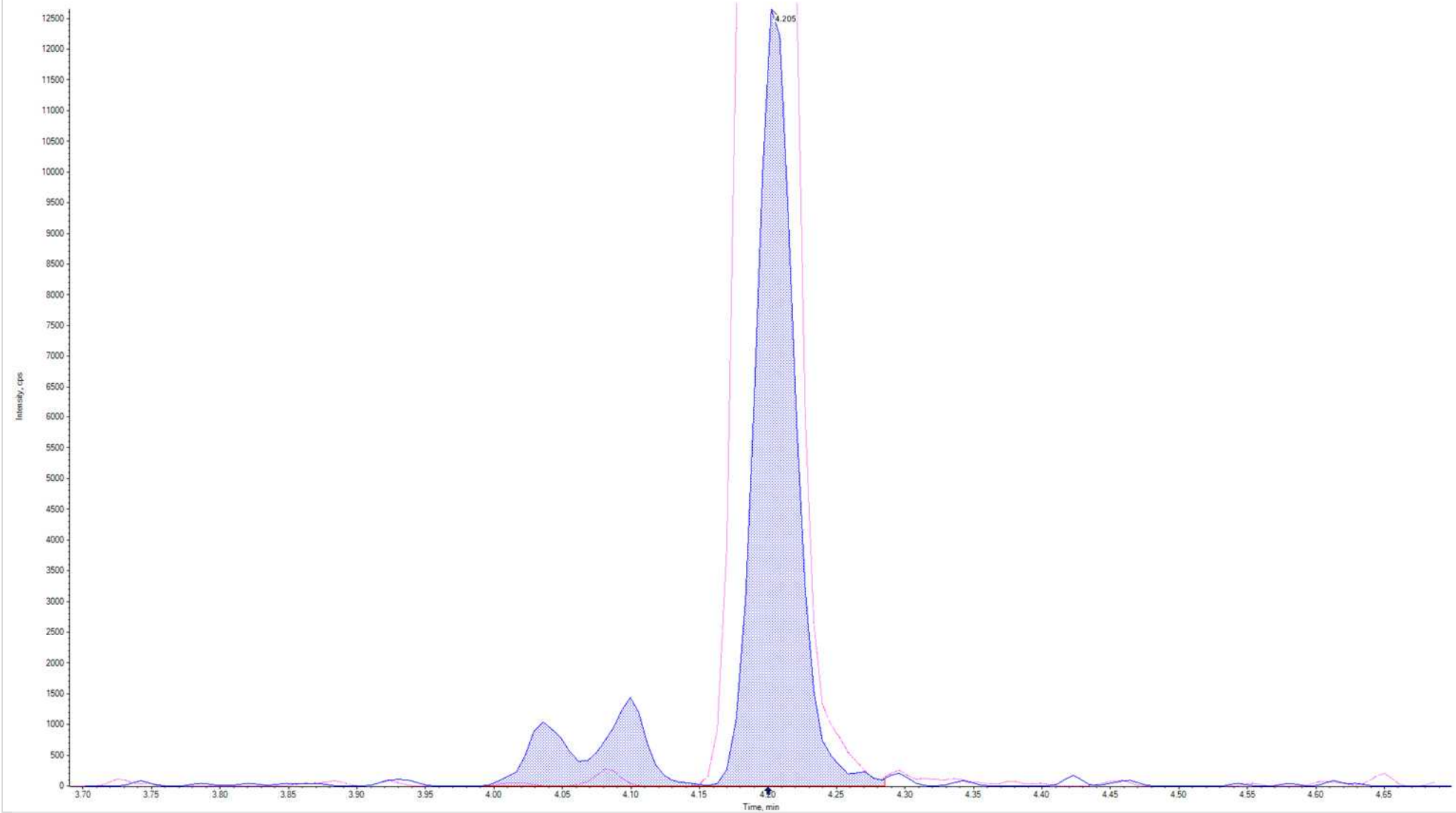
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

NEtFOSAA
Sample: WG2038443-5 S/N:484.7 Points Across peak:51



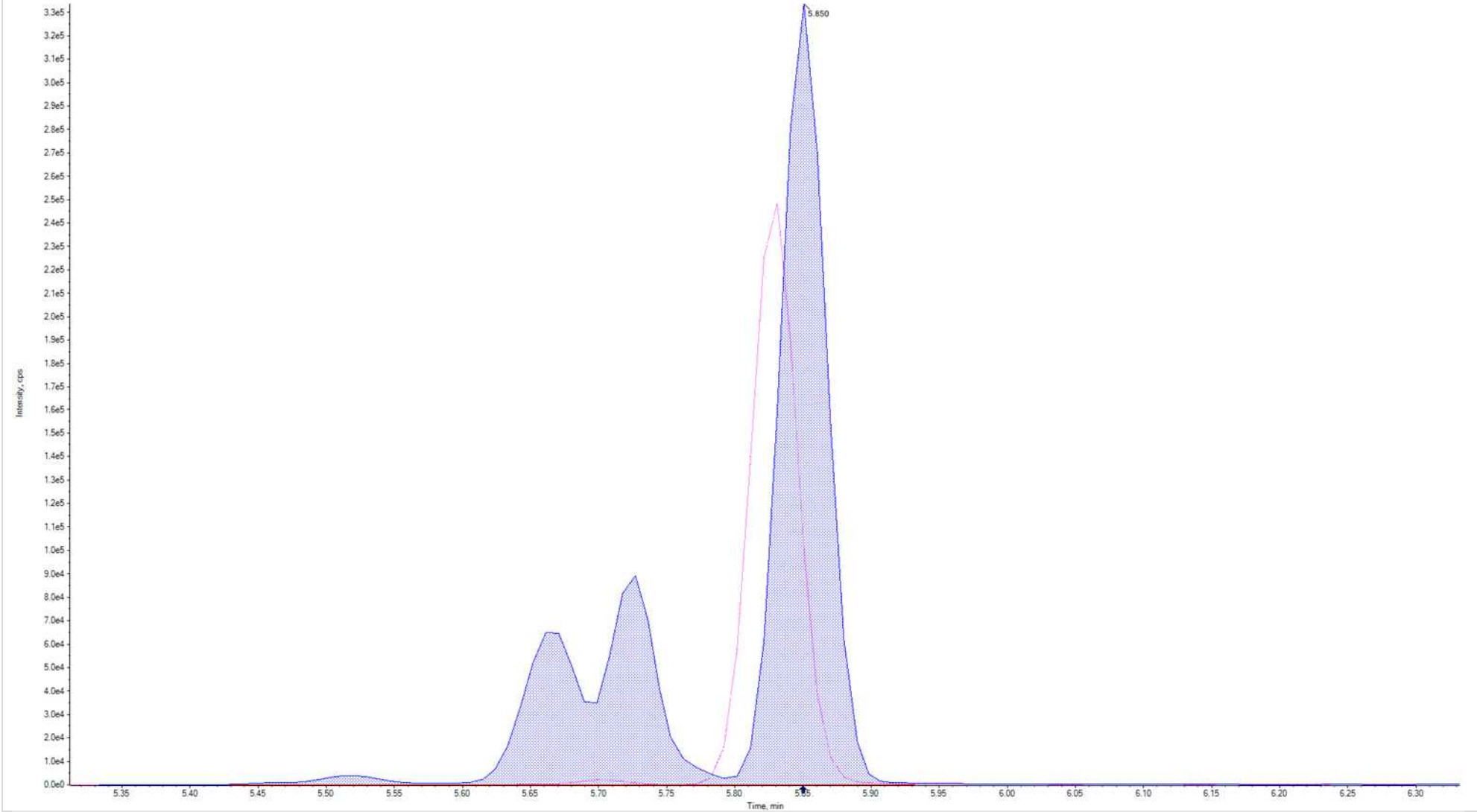
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

NEtFOSAA_2
Sample: WG2038443-5 S/N:285.4 Points Across peak:48



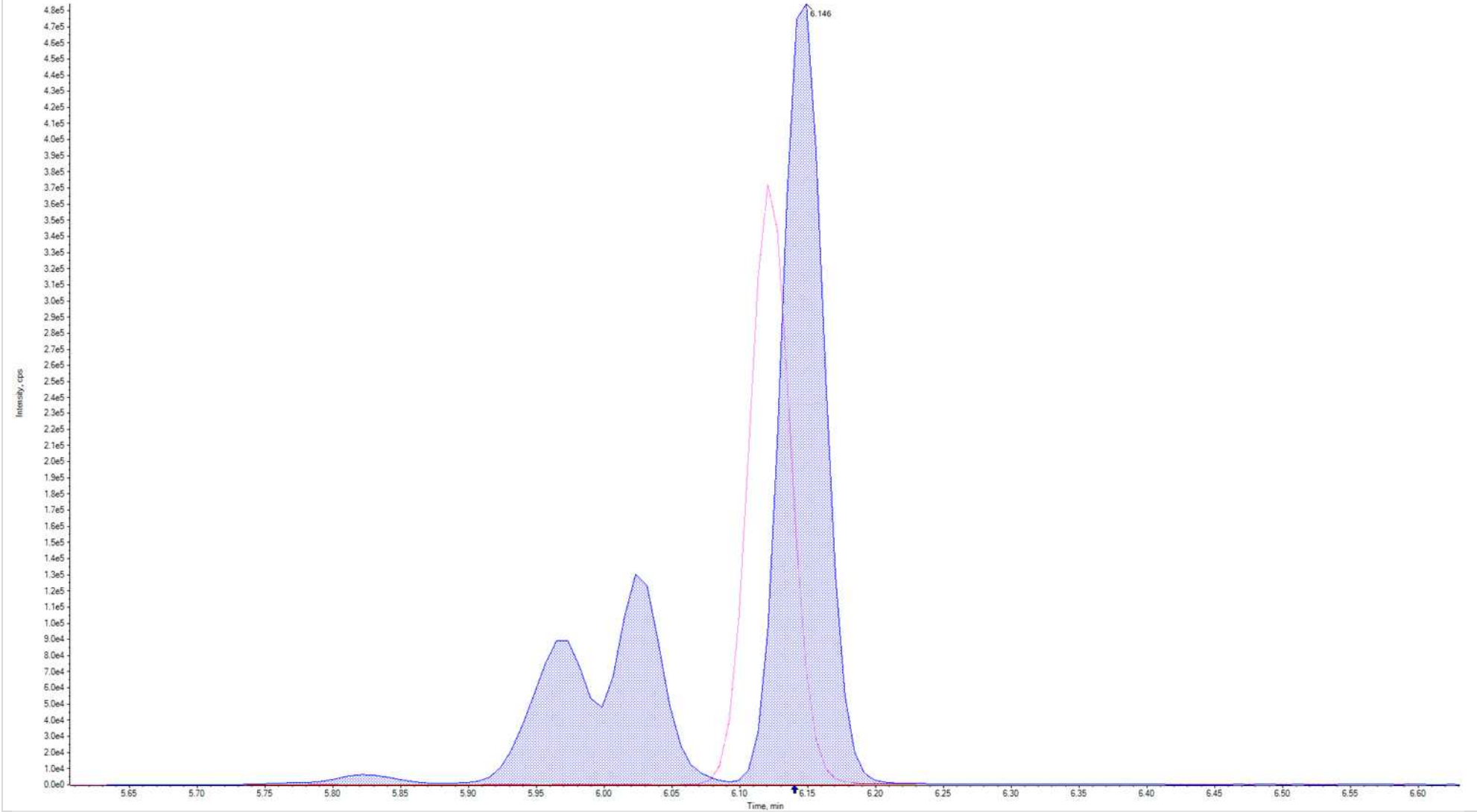
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Generated: 3/11/2025 12:26:59 PM

NMeFOSE
Sample: WG2038443-5 S/N:255.7 Points Across peak:58



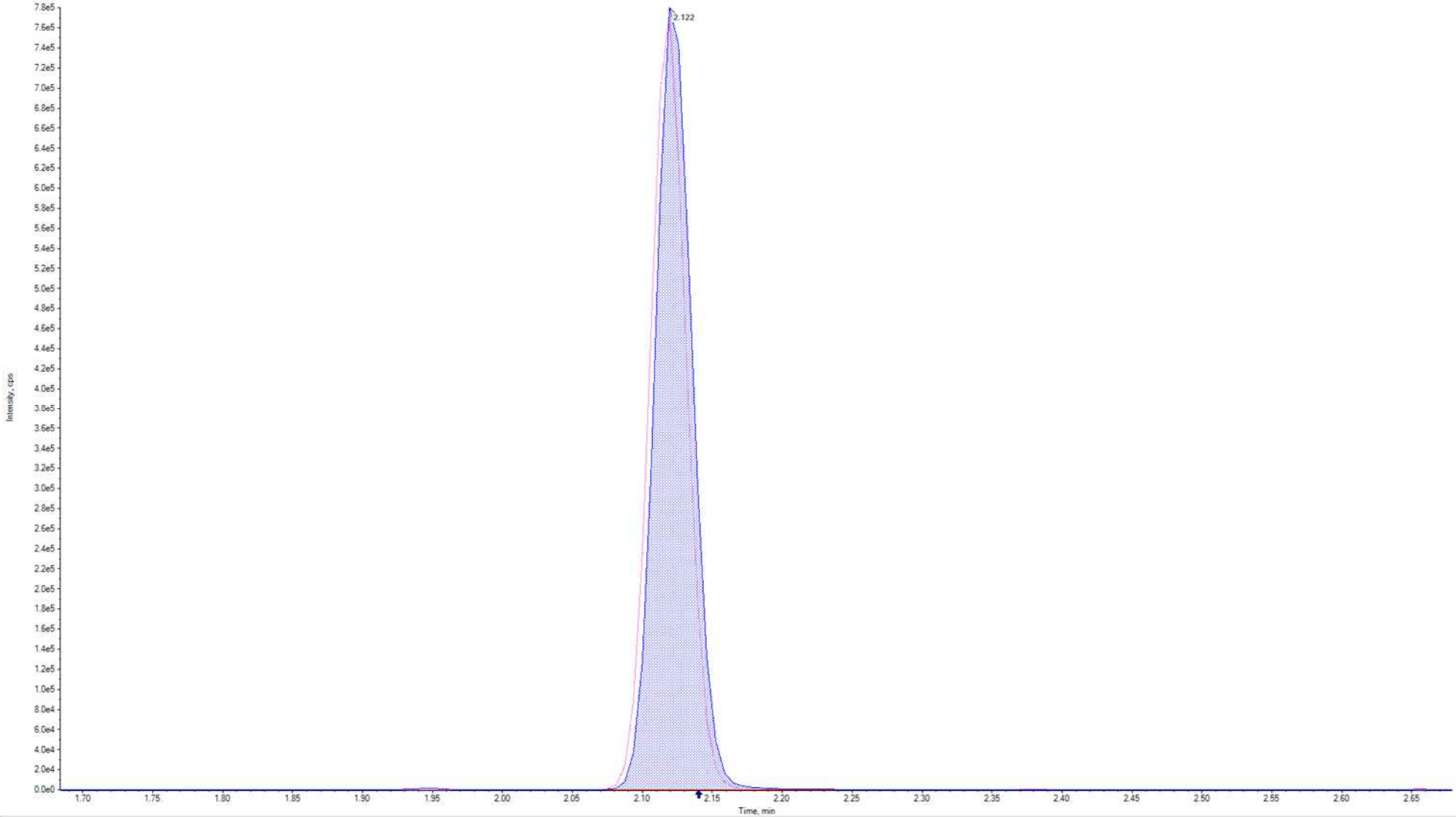
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

NEtFOSE
Sample: WG2038443-5 S/N:432.8 Points Across peak:63



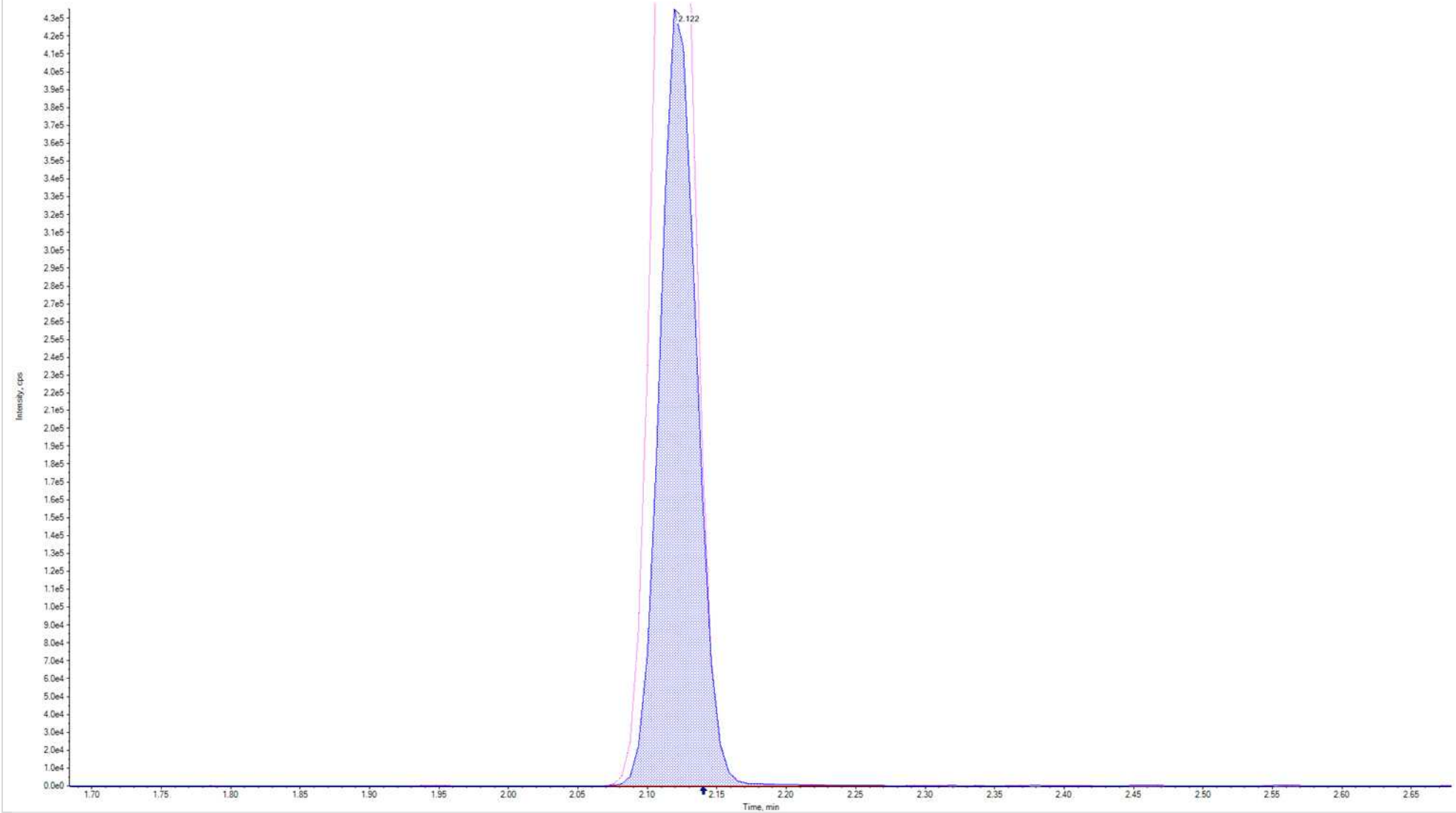
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

HFPO-DA
Sample: WG2038443-5 S/N:4010.6 Points Across peak:33



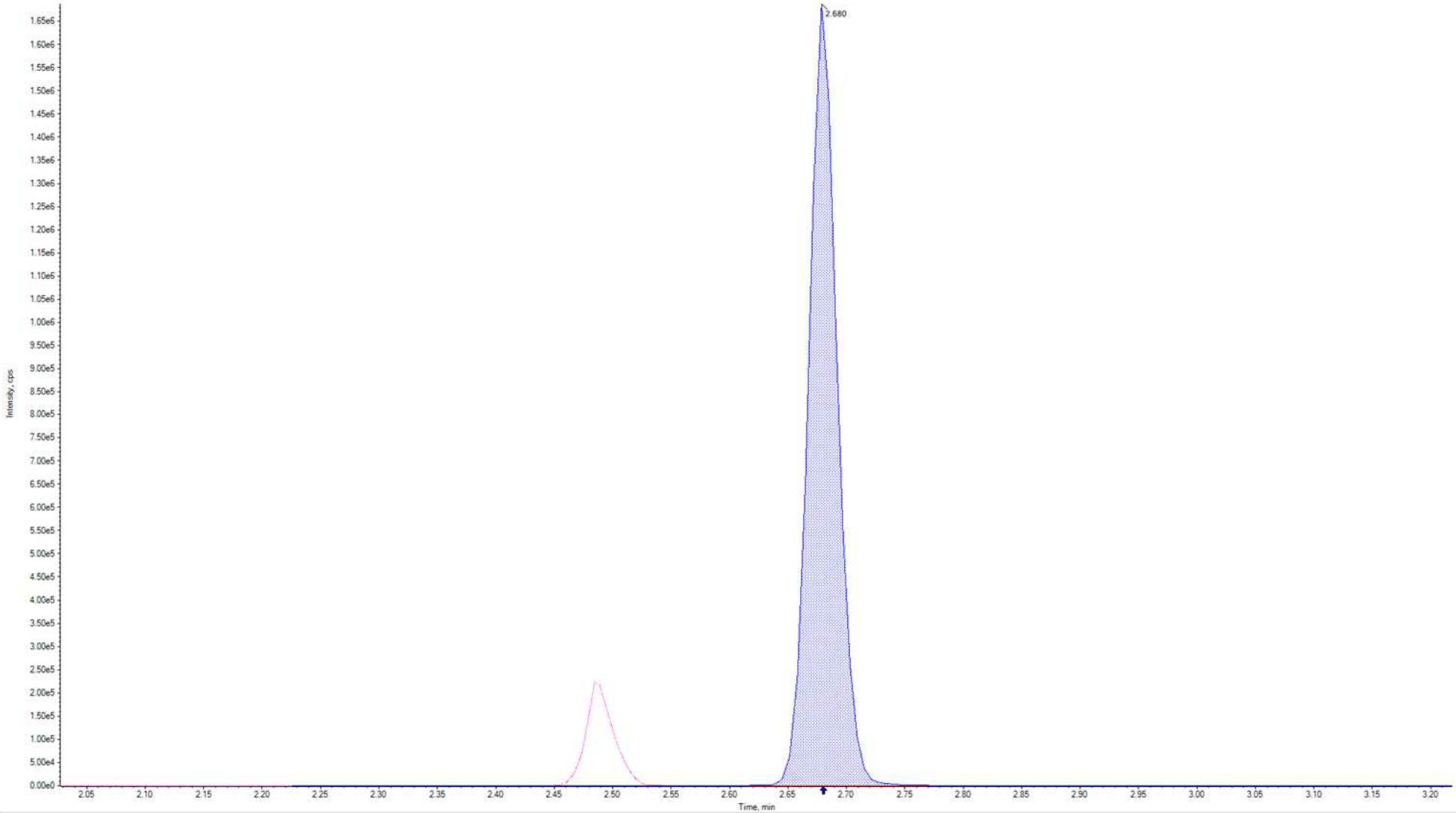
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Alpha Analytical LLC
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HFPO-DA_2
Sample: WG2038443-5 S/N:3530.7 Points Across peak:36



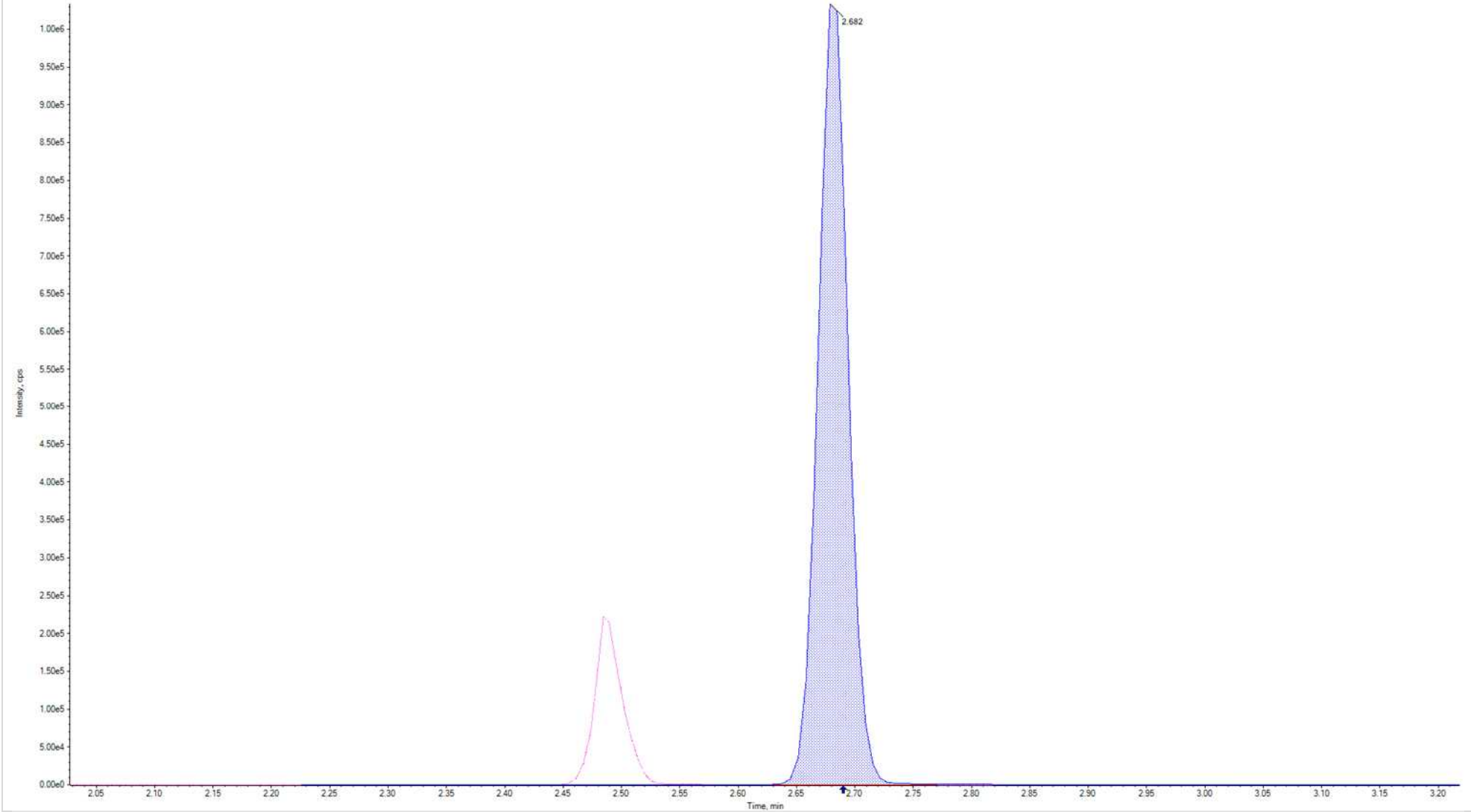
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

ADONA
Sample: WG2038443-5 S/N:33834.3 Points Across peak:35



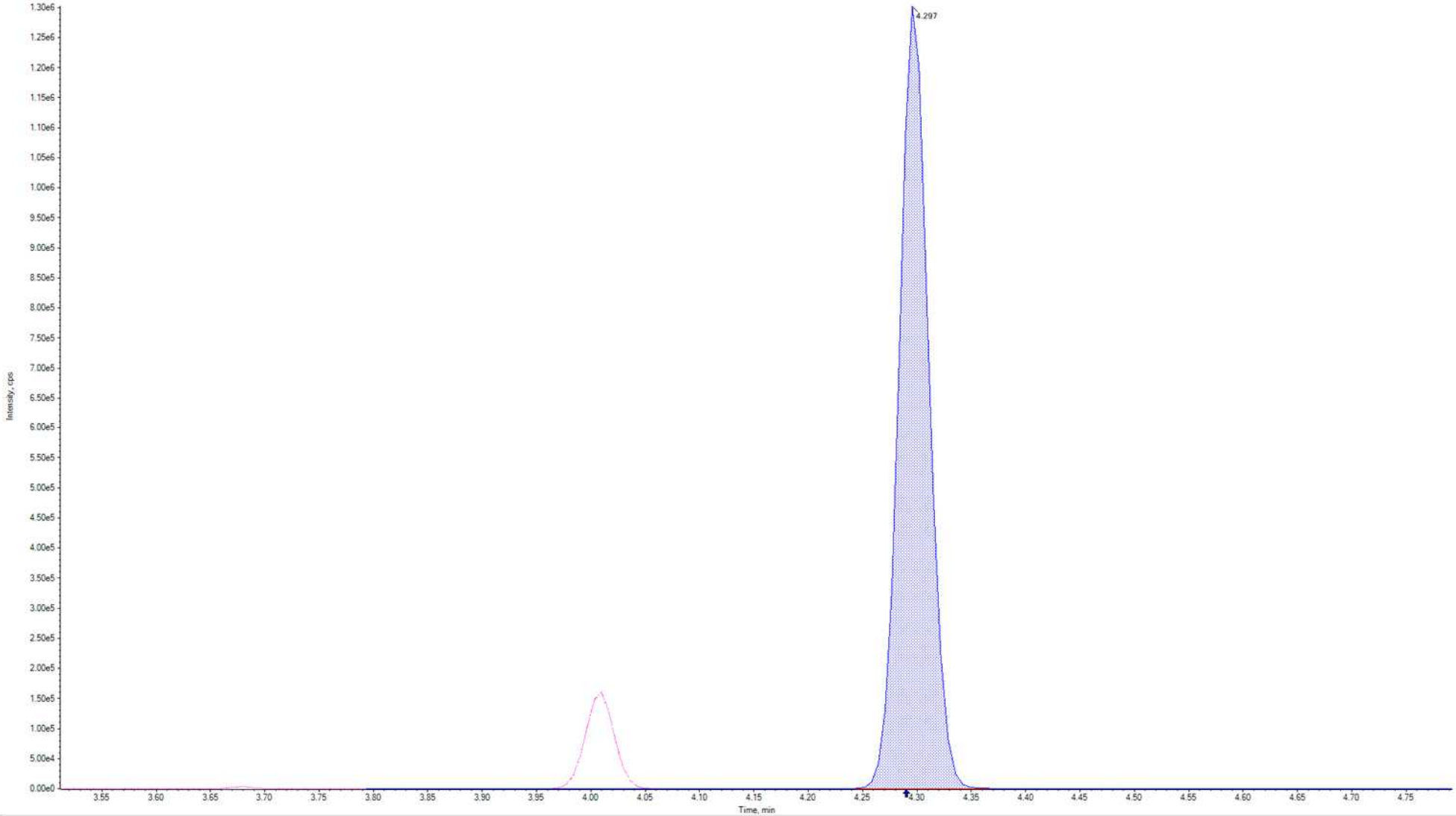
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Alpha Analytical LLC
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ADONA_2
Sample: WG2038443-5 S/N:20725.7 Points Across peak:31



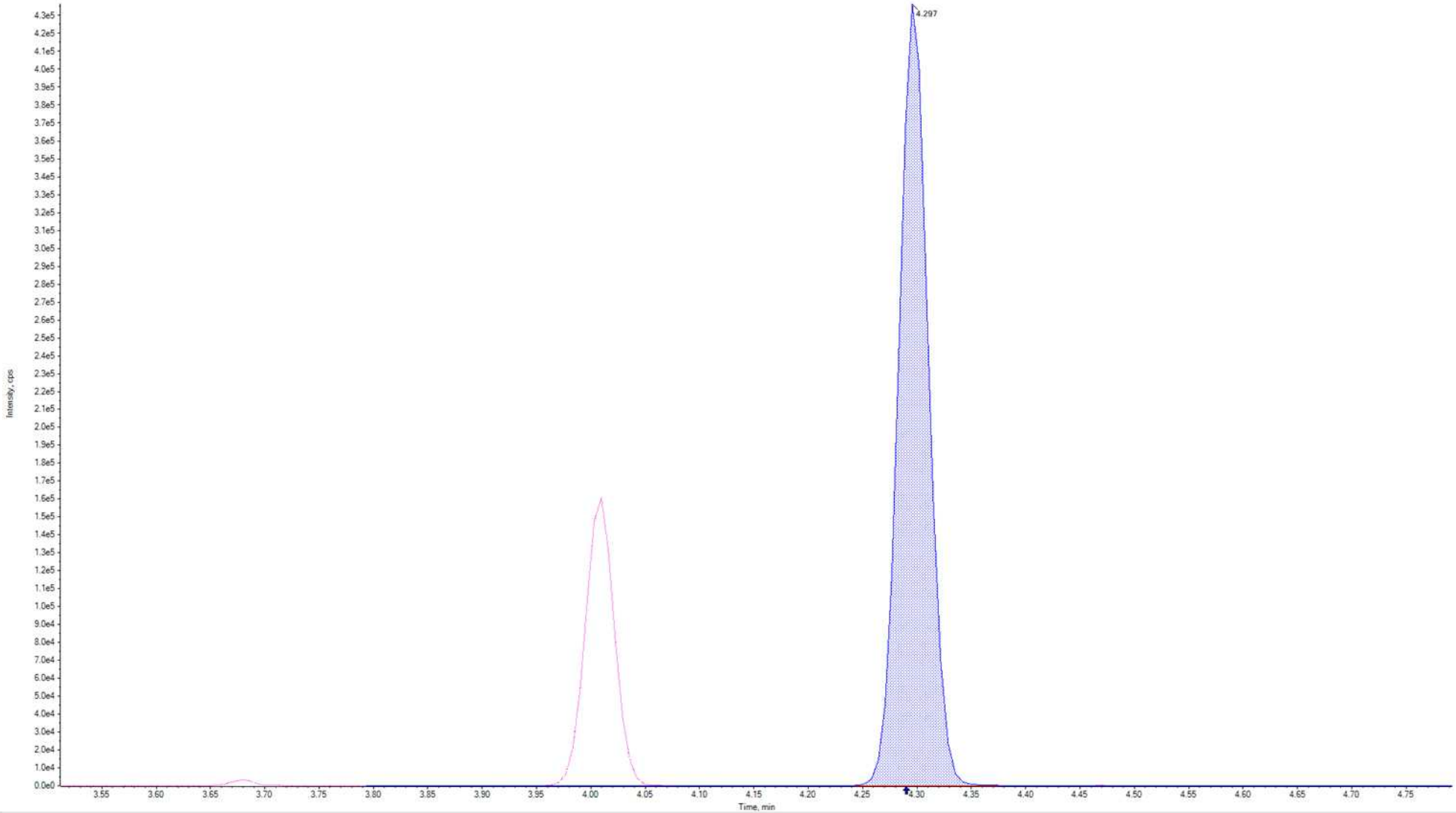
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

9Cl-PF3ONS
Sample: WG2038443-5 S/N:10420.5 Points Across peak:27



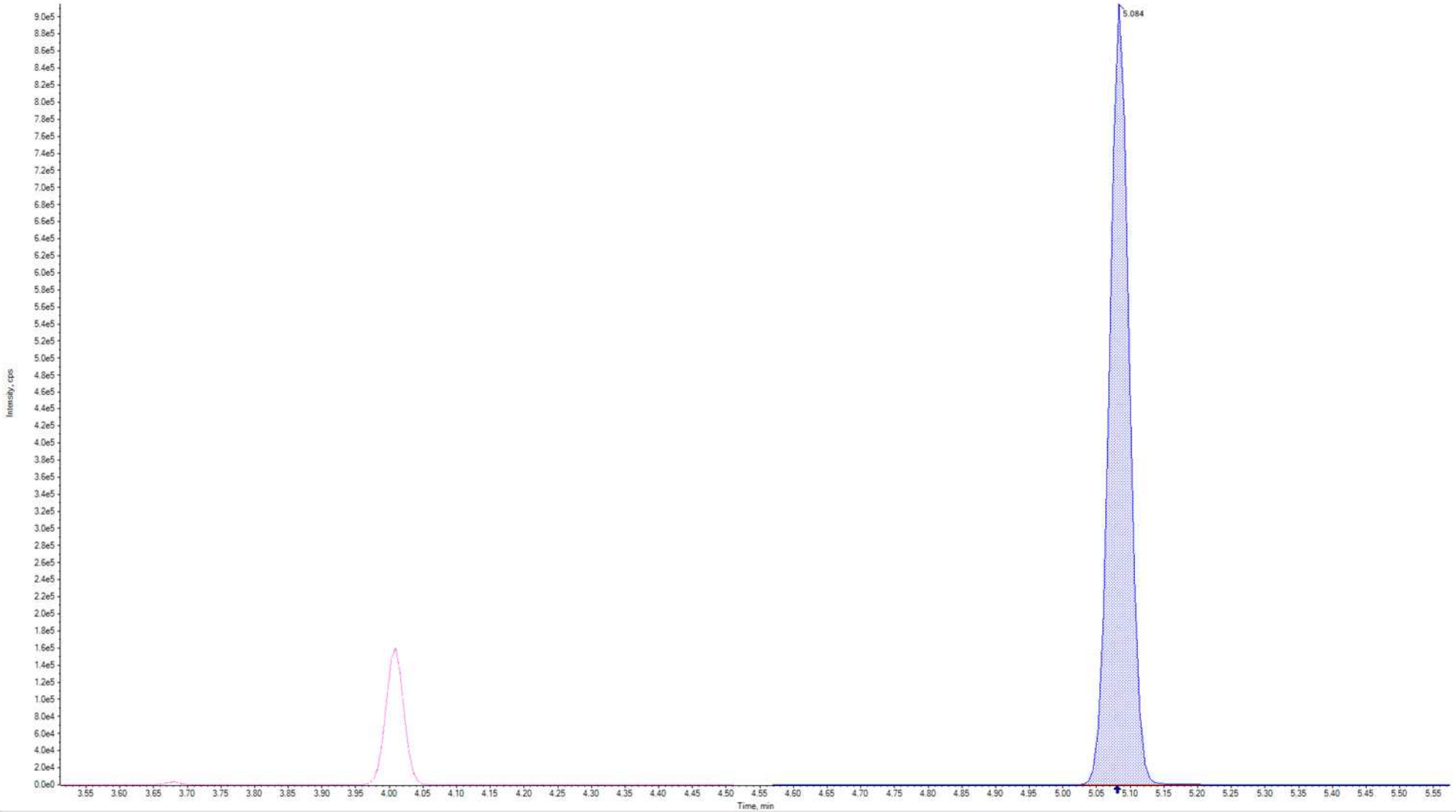
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Alpha Analytical LLC
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Generated: 3/11/2025 12:26:59 PM

9Cl-PF3ONS_2
Sample: WG2038443-5 S/N:5166.2 Points Across peak:36



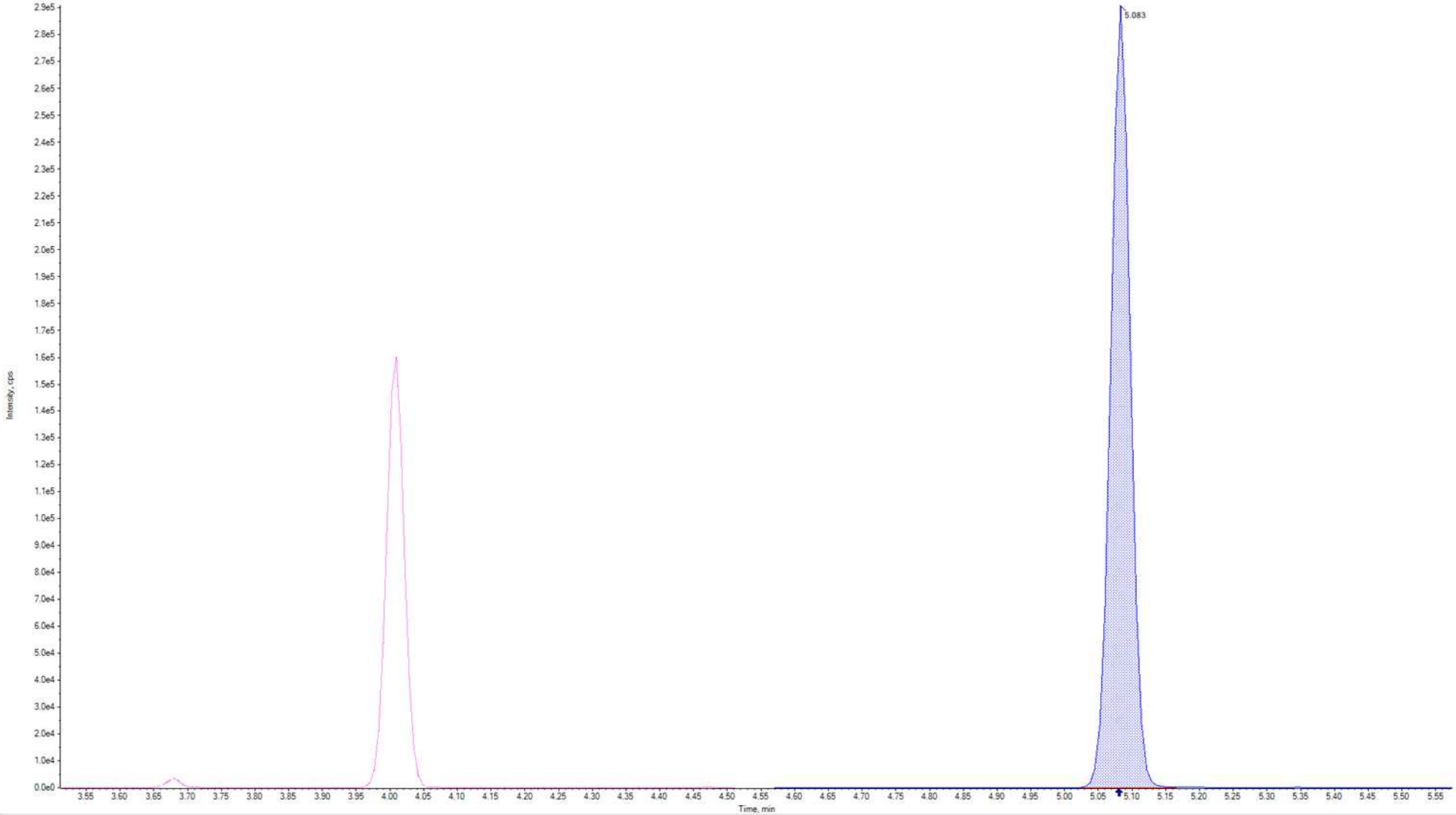
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Alpha Analytical LLC
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11Cl-PF3OUdS
Sample: WG2038443-5 S/N:6326.2 Points Across peak:32



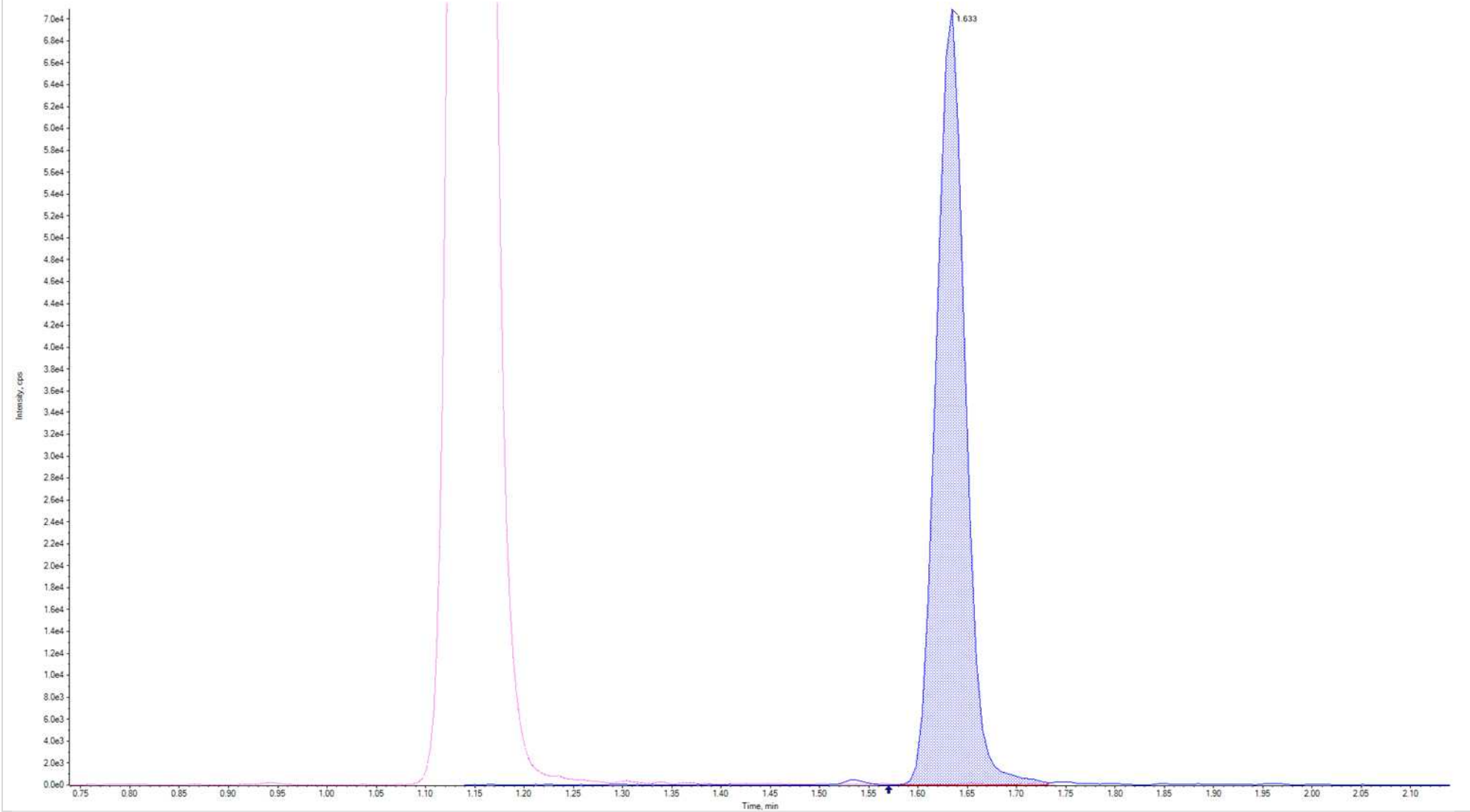
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

11Cl-PF3OUdS_2
Sample: WG2038443-5 S/N:13852.1 Points Across peak:22



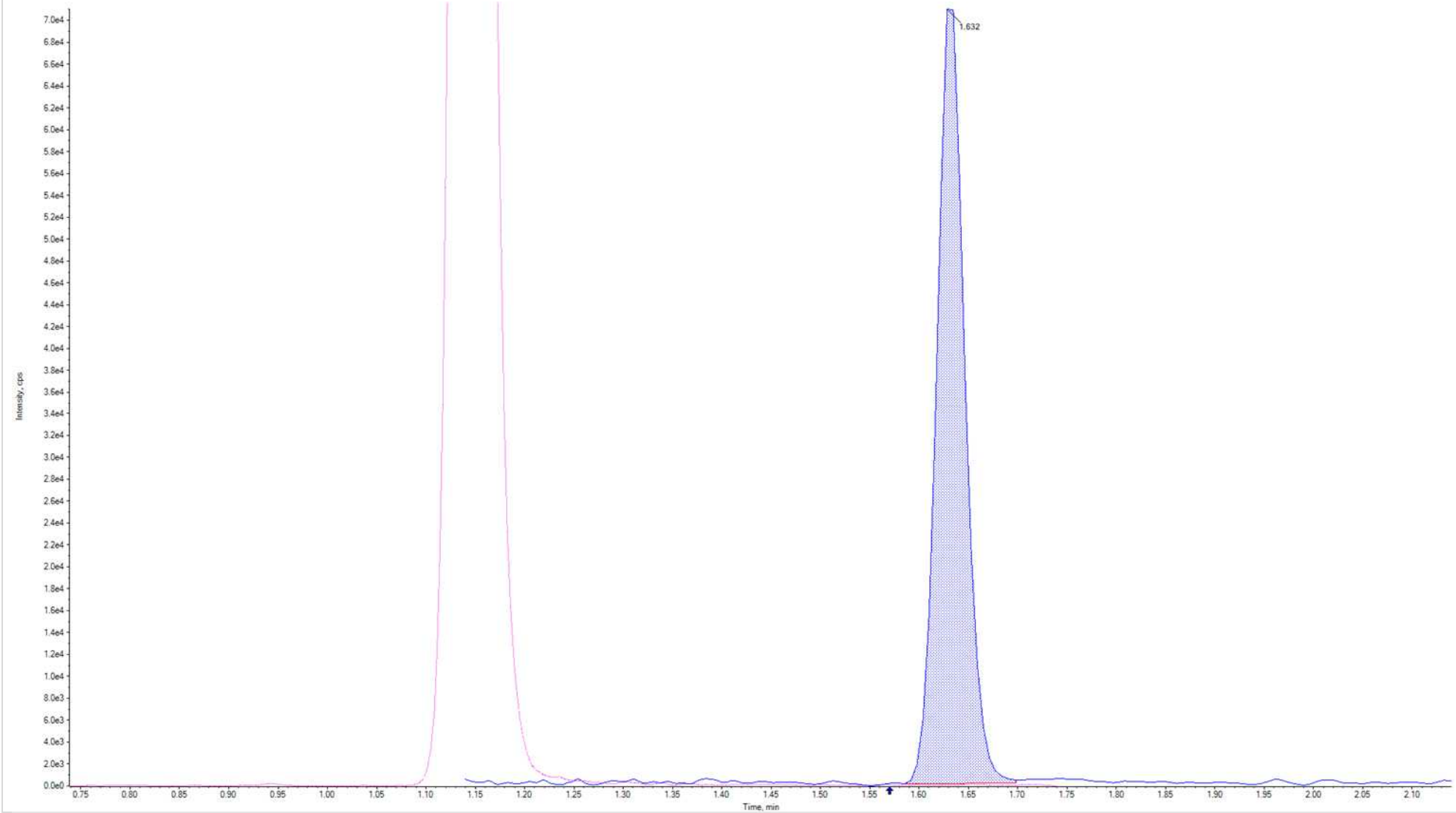
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

3:3FTCA
Sample: WG2038443-5 S/N:1777.1 Points Across peak:26



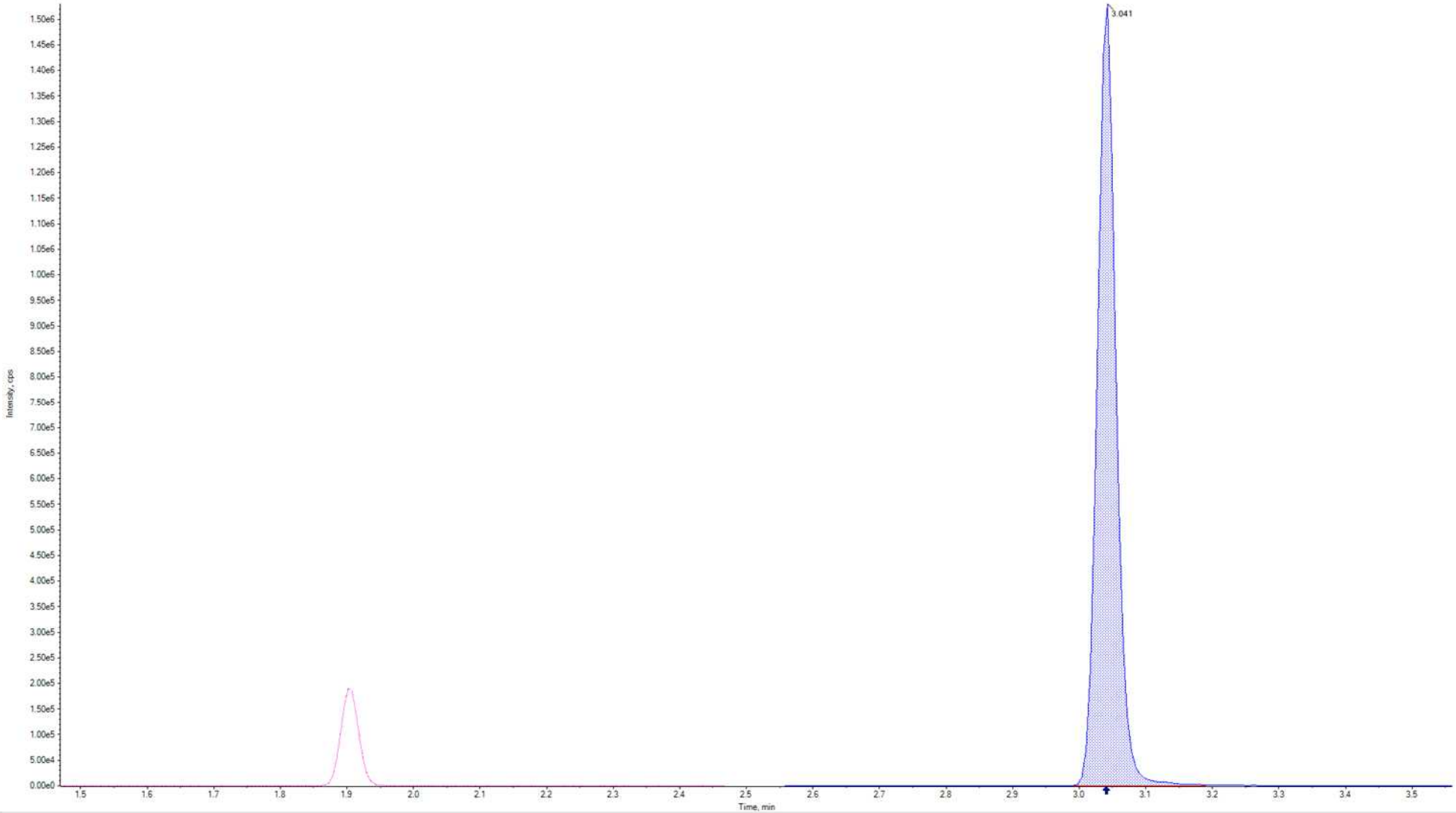
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

3:3FTCA_2
Sample: WG2038443-5 S/N:1664.7 Points Across peak:19



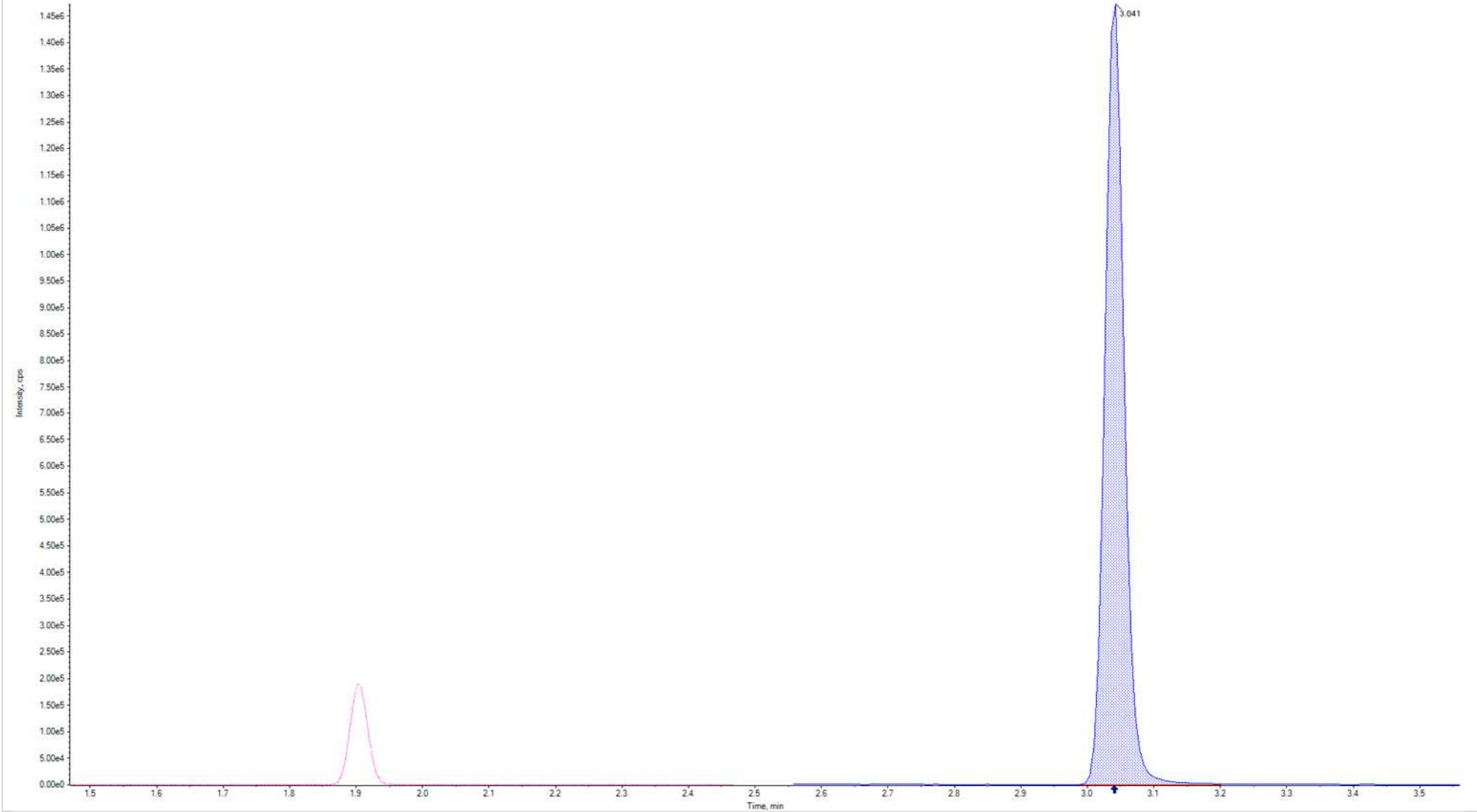
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

5:3FTCA
Sample: WG2038443-5 S/N:15420.8 Points Across peak:36



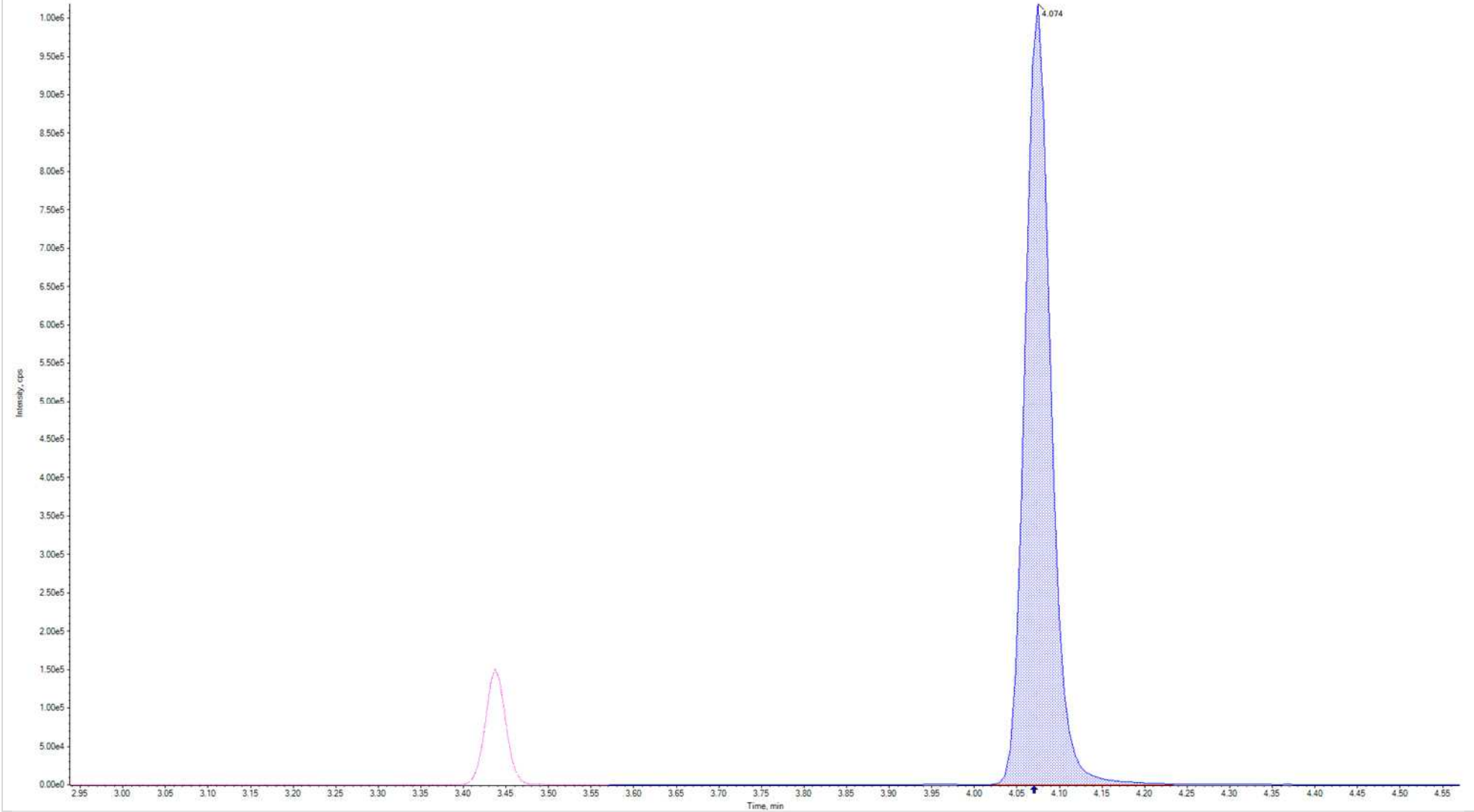
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

5:3FTCA_2
Sample: WG2038443-5 S/N:6667.4 Points Across peak:38



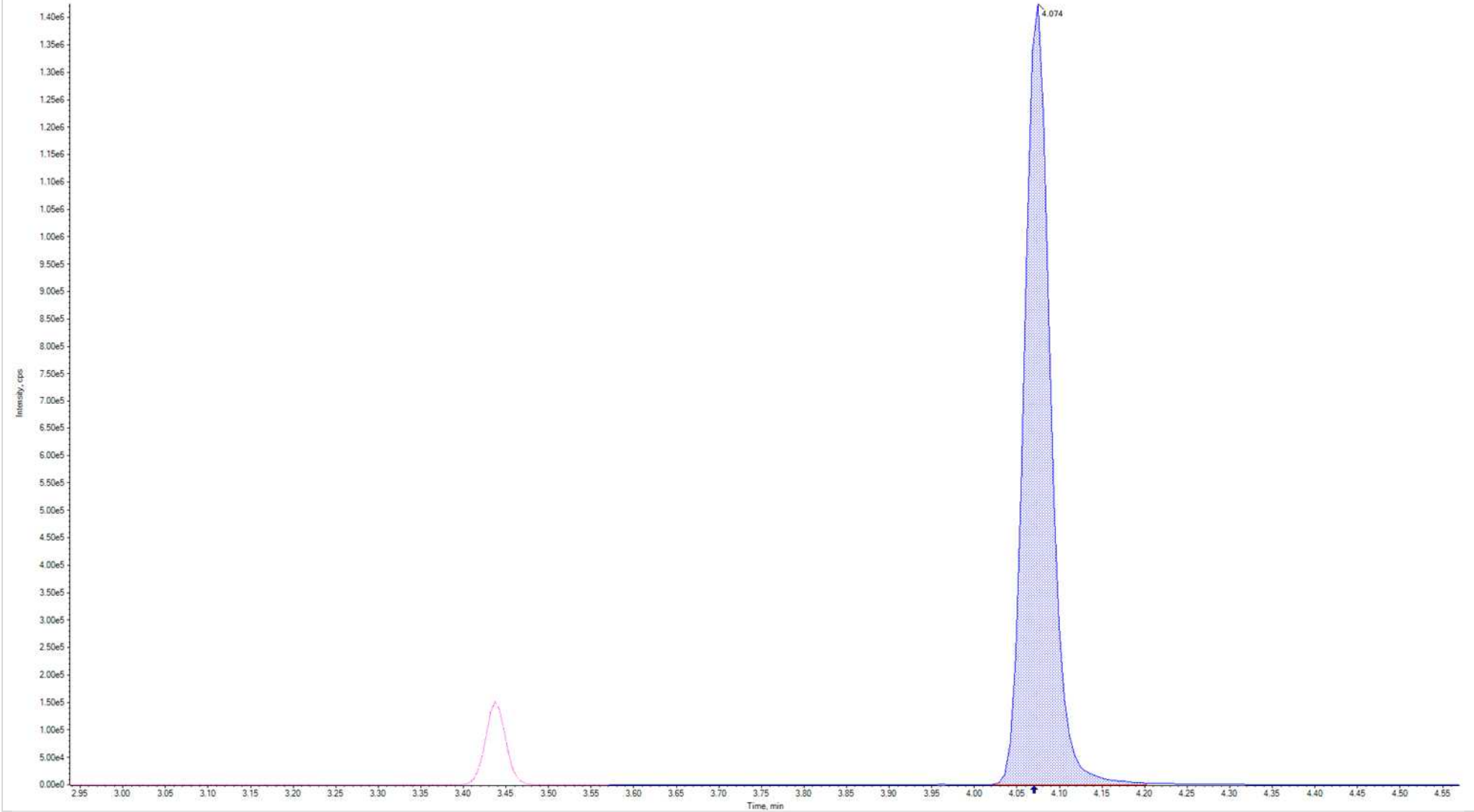
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

7:3FTCA
Sample: WG2038443-5 S/N:13947.1 Points Across peak:38



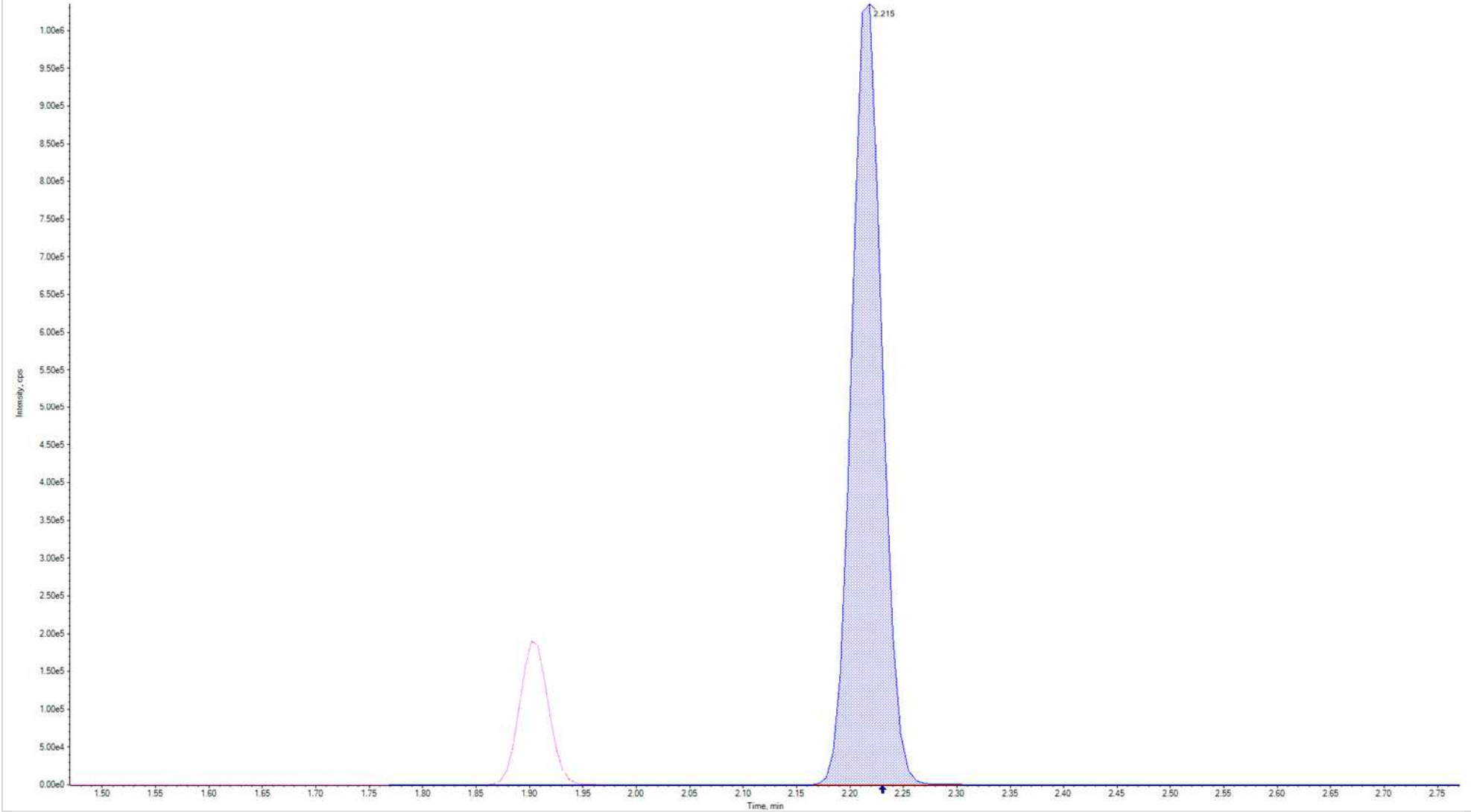
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Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

7:3FTCA_2
Sample: WG2038443-5 S/N:14745.8 Points Across peak:32



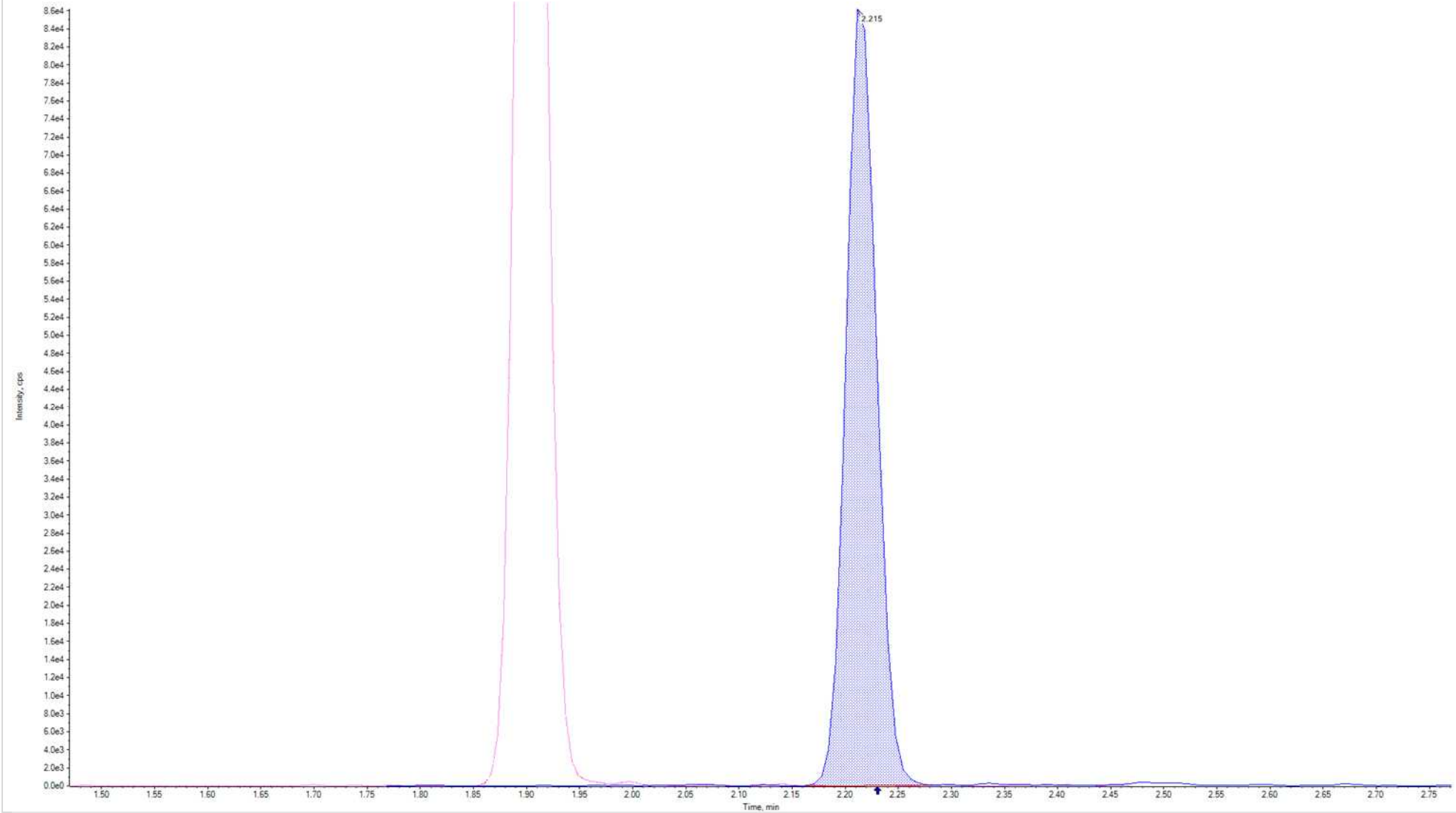
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

PFEESA
Sample: WG2038443-5 S/N:23356.0 Points Across peak:30



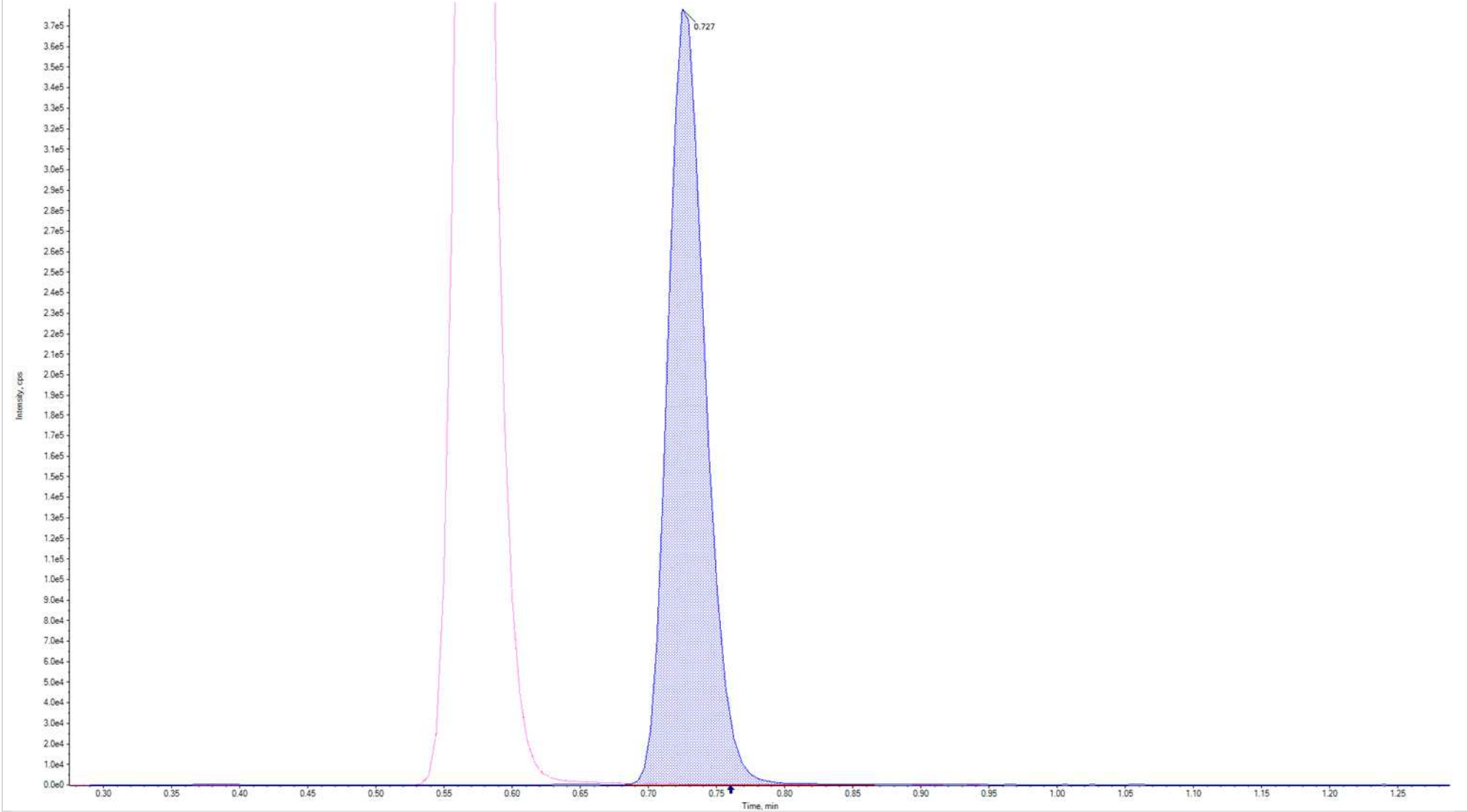
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Alpha Analytical LLC
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PFEESA_2
Sample: WG2038443-5 S/N:1943.5 Points Across peak:20



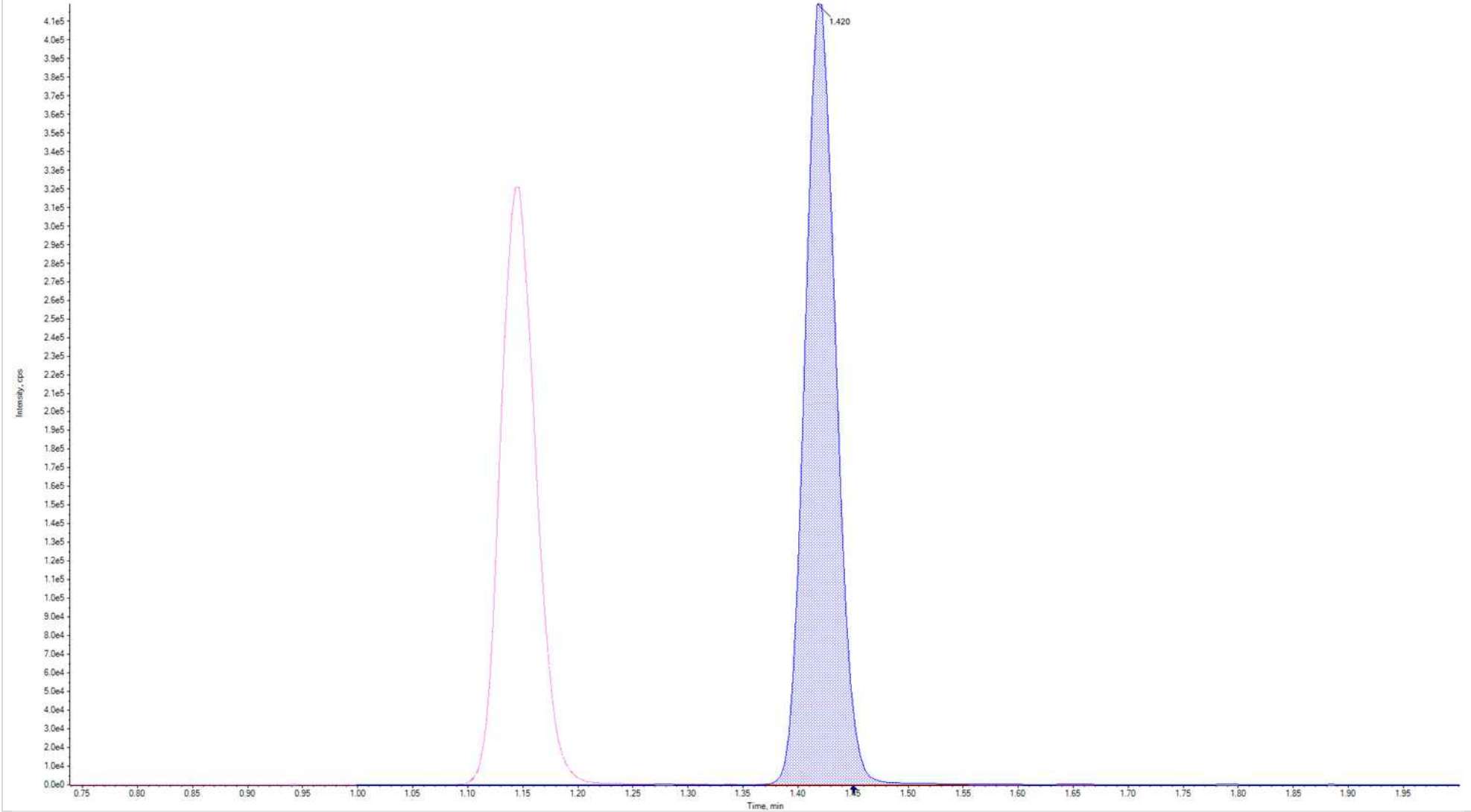
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PFMPA
Sample: WG2038443-5 S/N:15255.0 Points Across peak:36



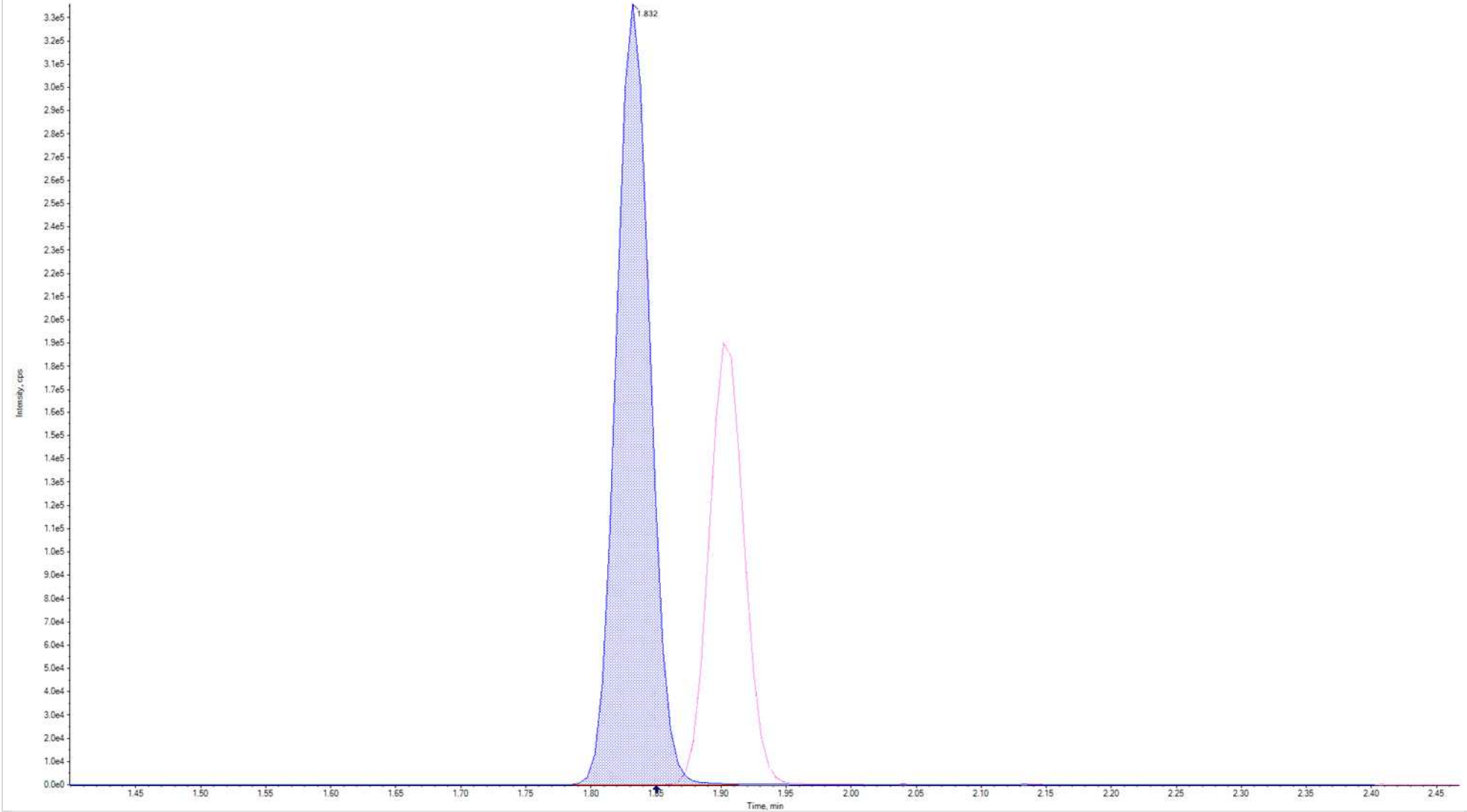
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PFMBA
Sample: WG2038443-5 S/N:24170.0 Points Across peak:41



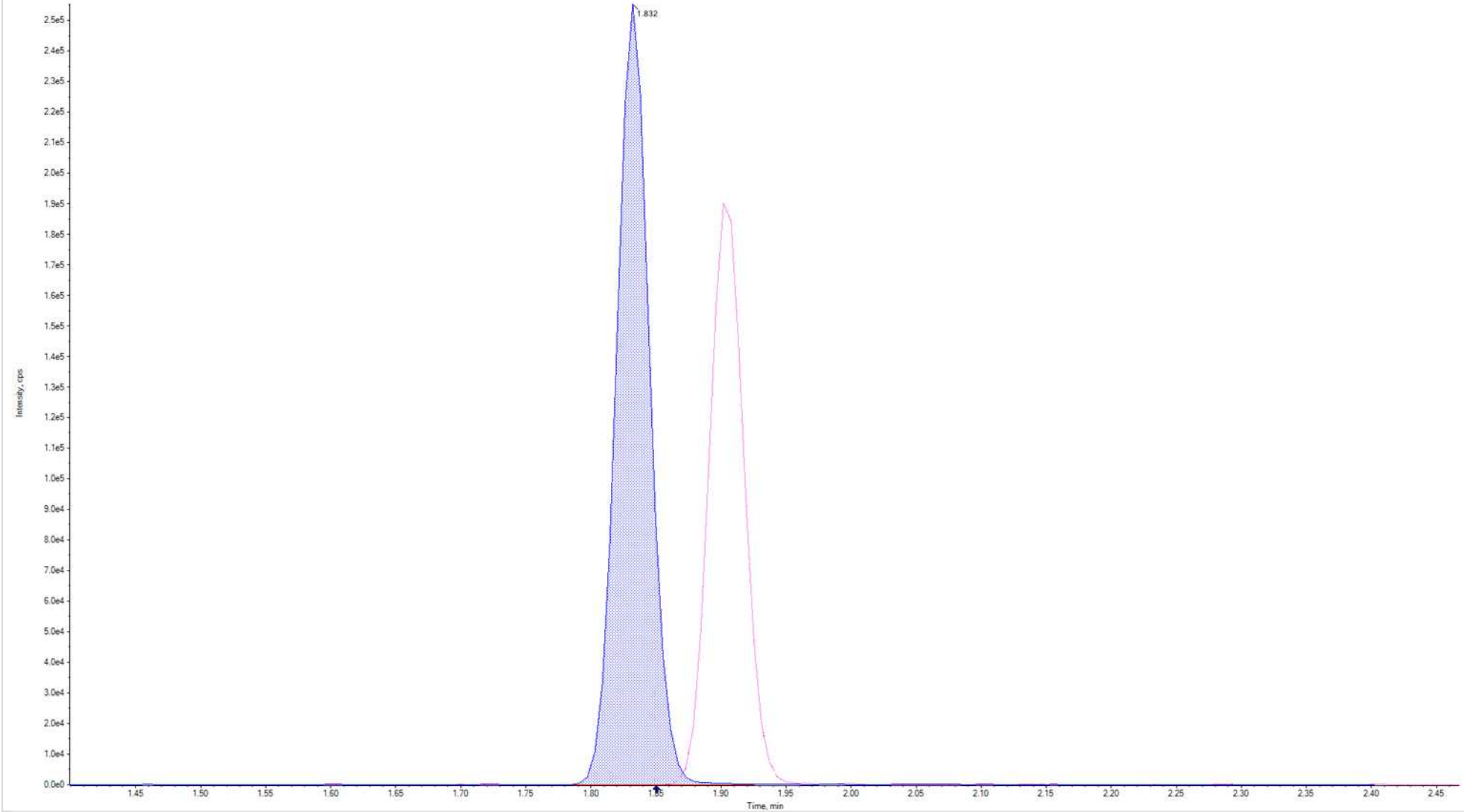
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NFDHA
Sample: WG2038443-5 S/N:5546.8 Points Across peak:27



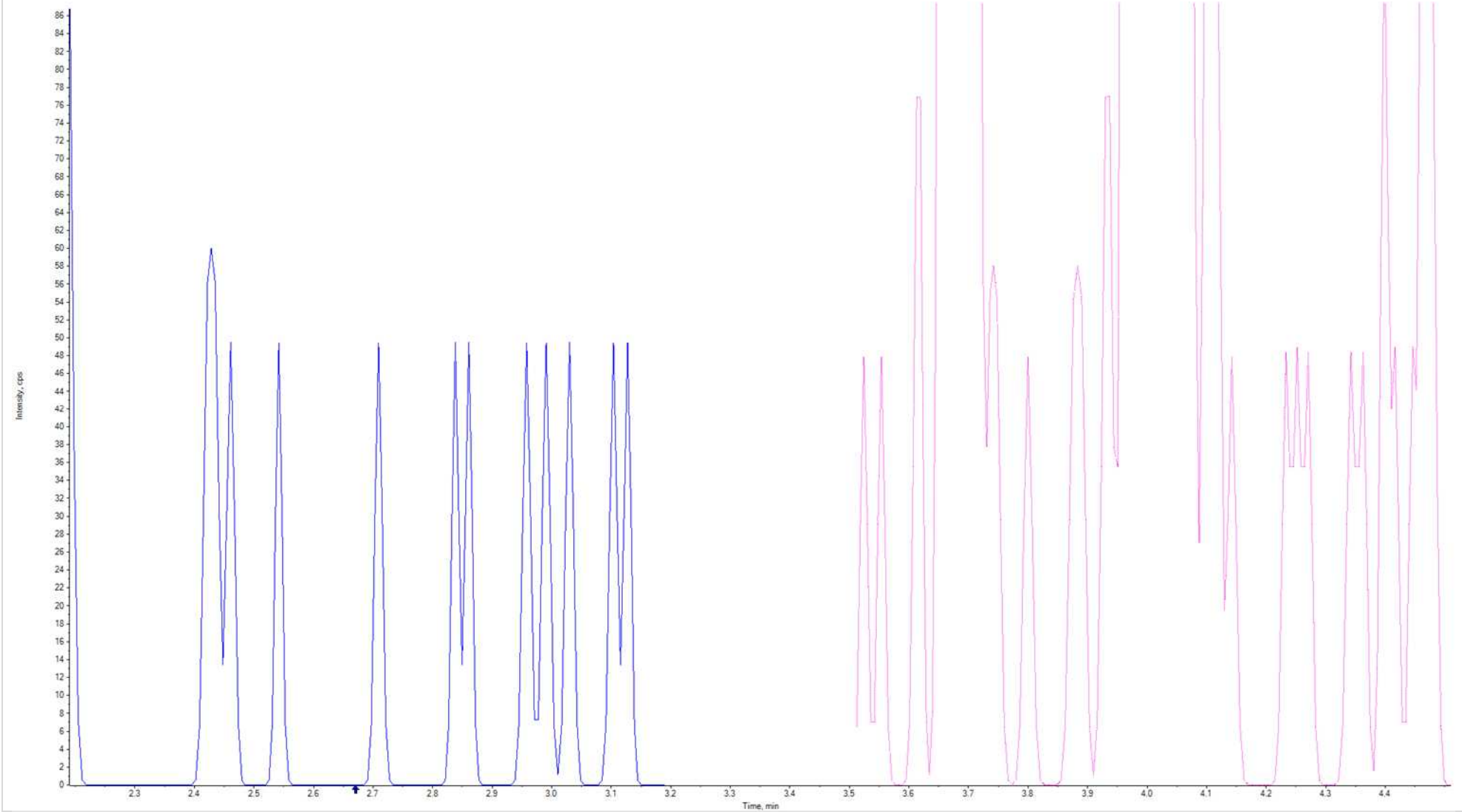
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NFDHA_2
Sample: WG2038443-5 S/N:7040.7 Points Across peak:27



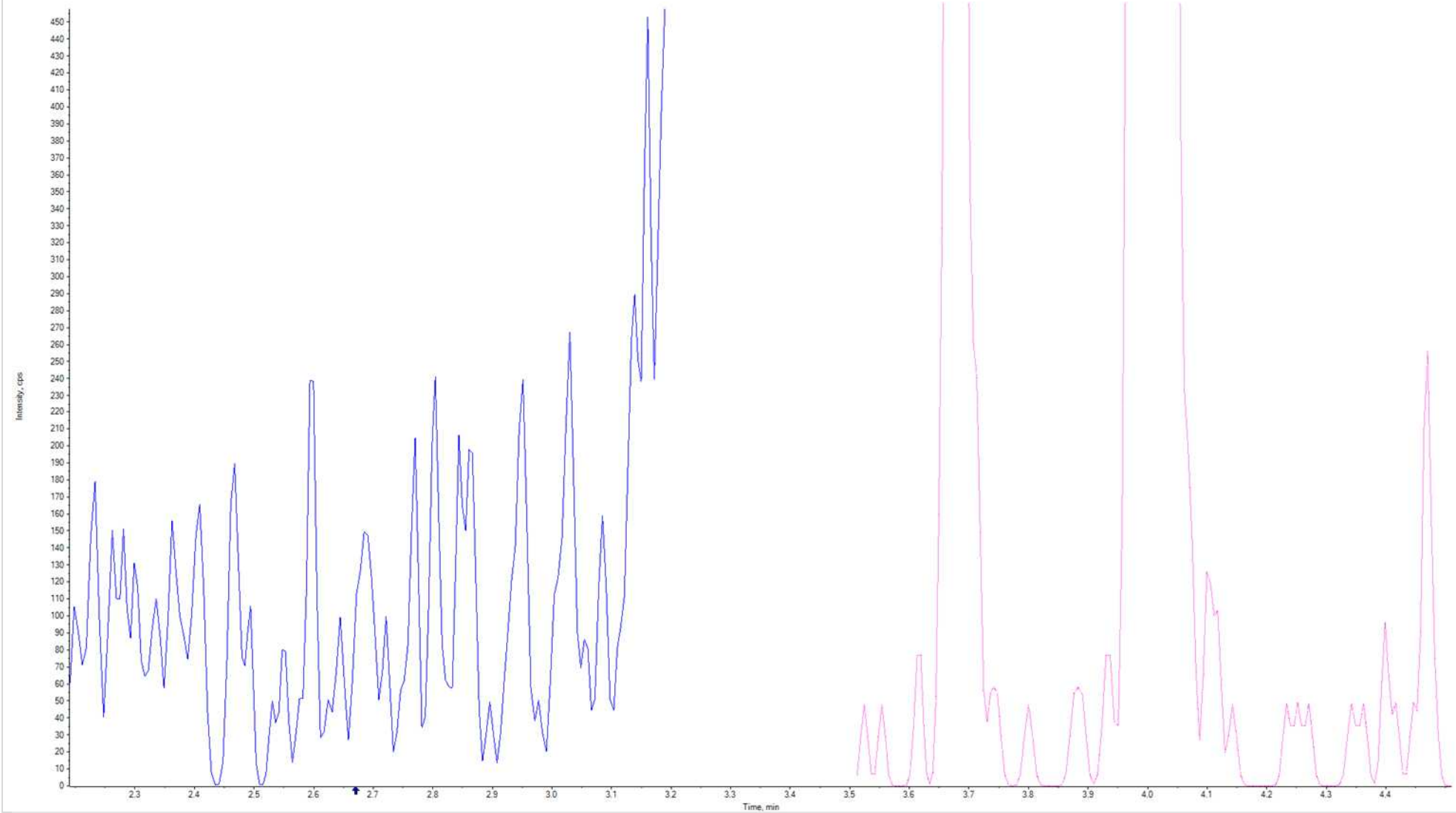
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TDCA
Sample: WG2038443-5 S/N:N/A Points Across peak:N/A



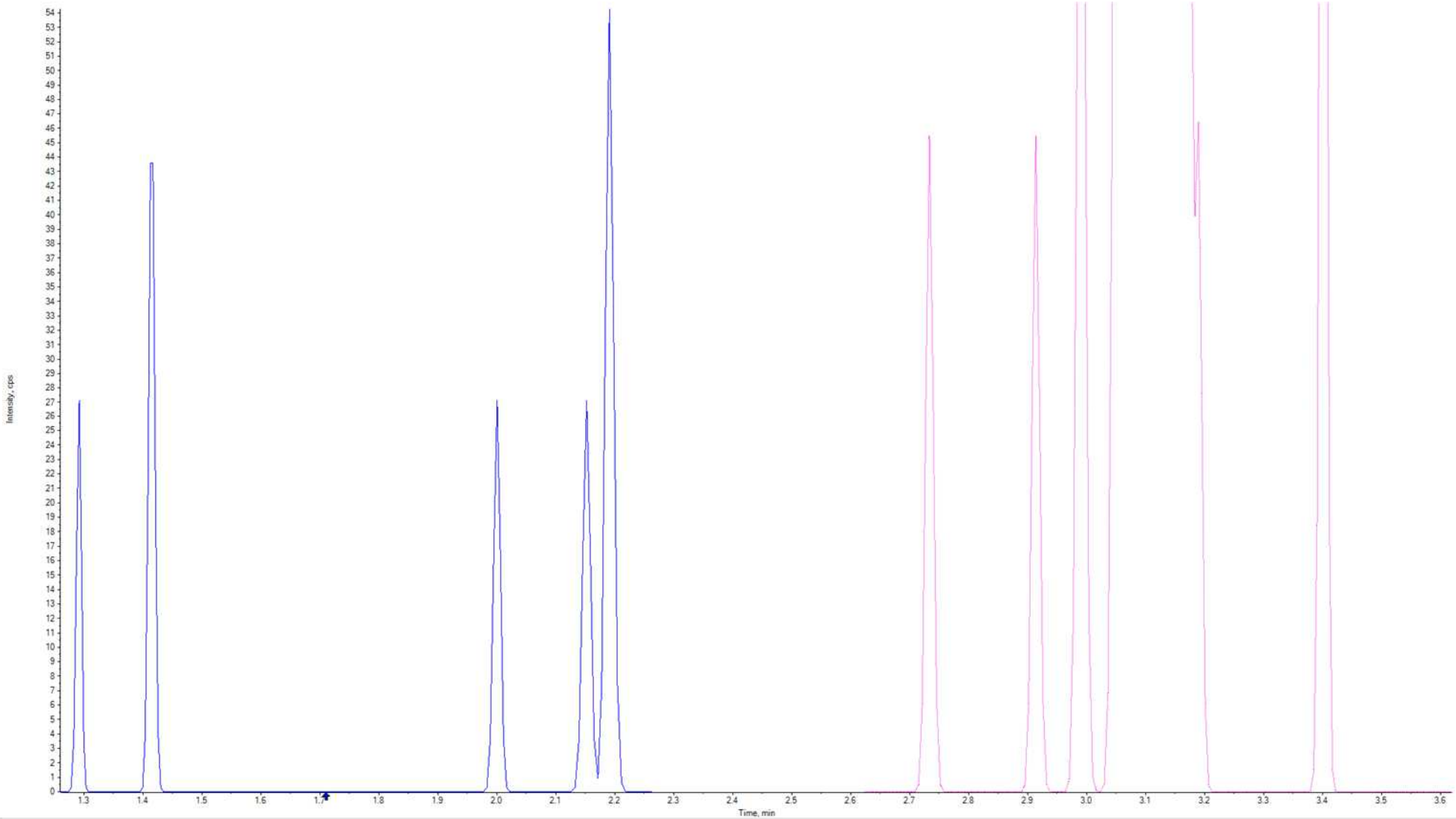
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TDCA_2
Sample: WG2038443-5 S/N:N/A Points Across peak:N/A



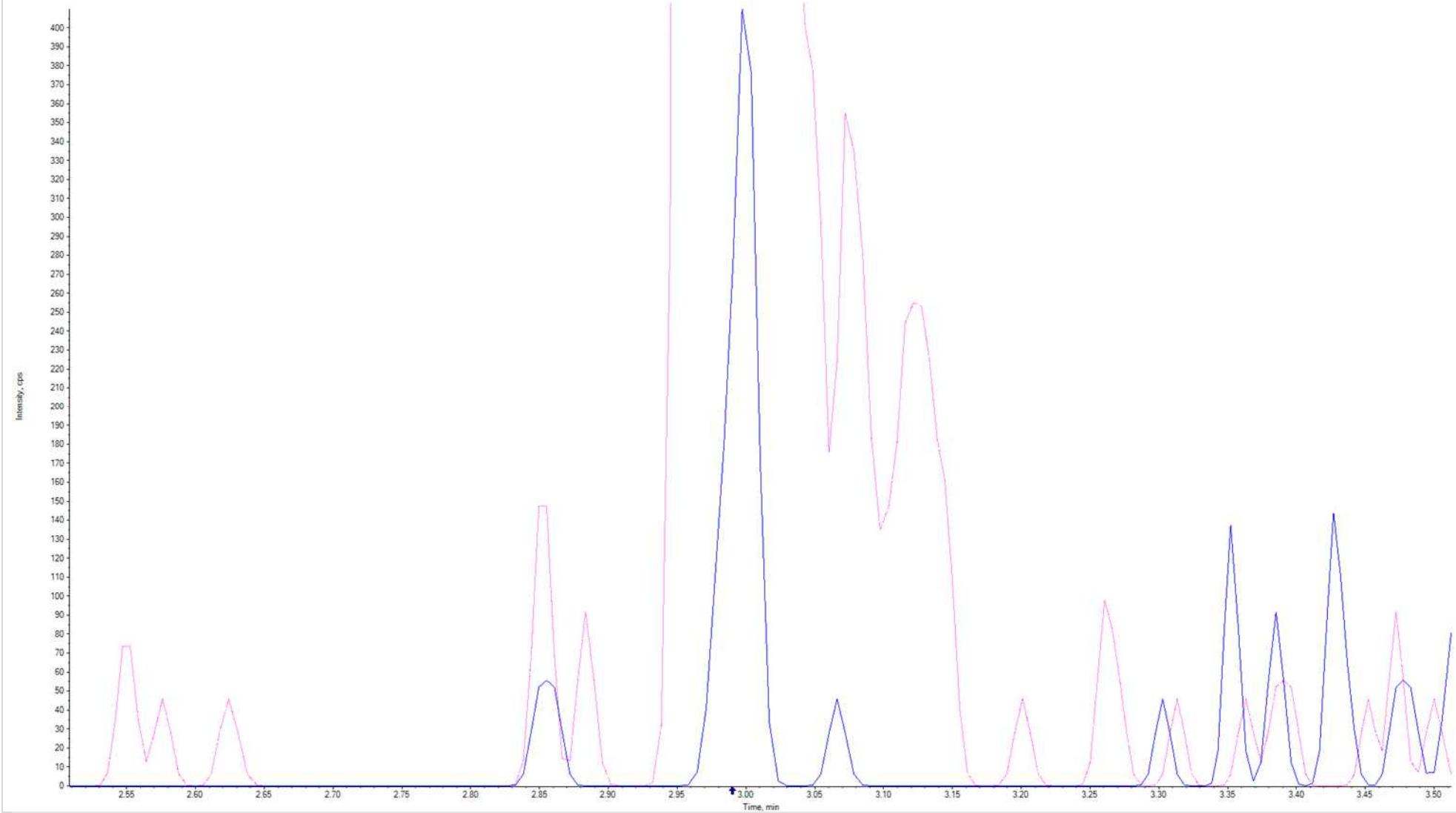
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13C2D4-4:2FTS
Sample: WG2038443-5 S/N:N/A Points Across peak:N/A

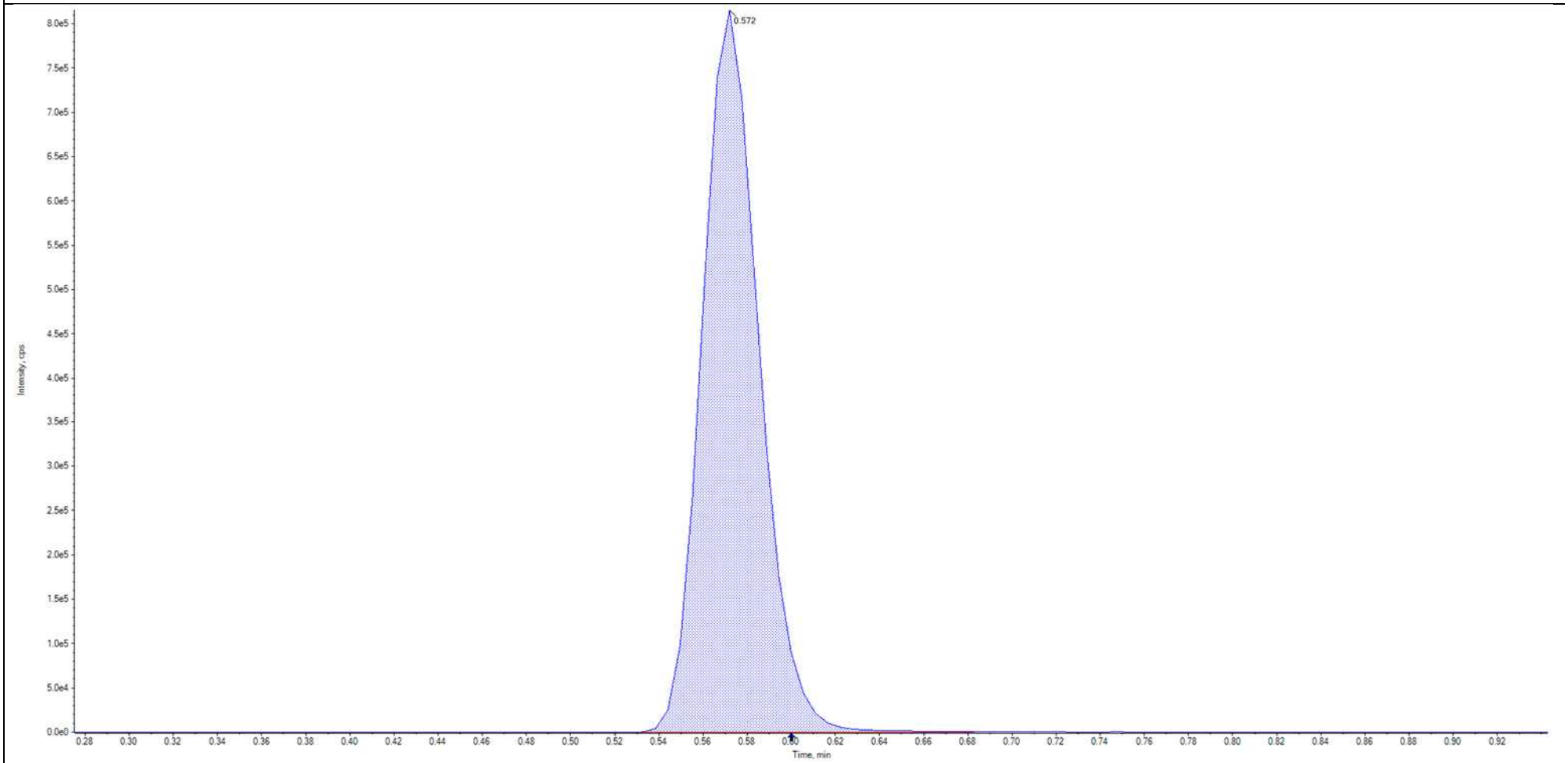


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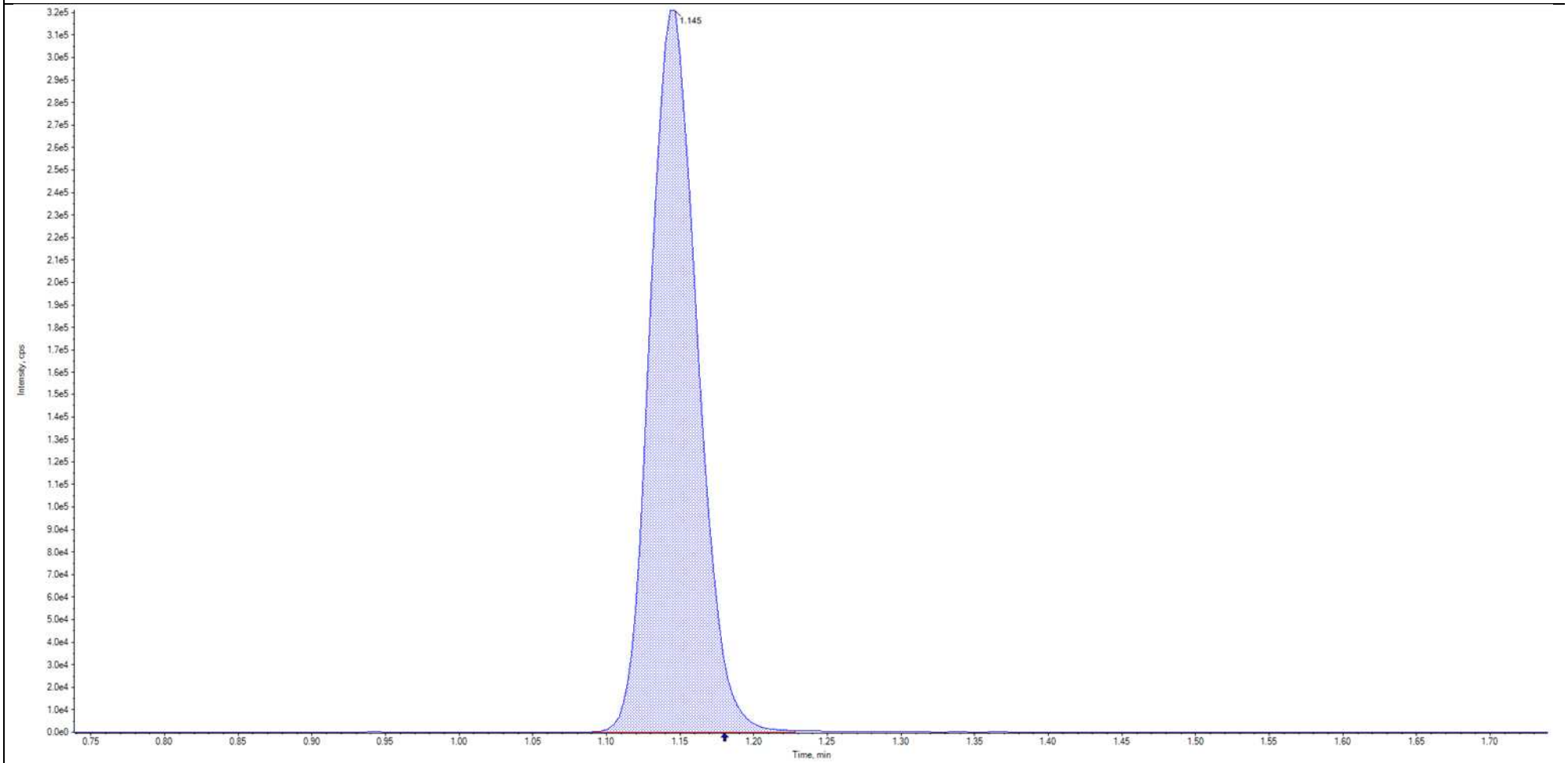
13C2-PFOA
Sample: WG2038443-5 S/N:N/A Points Across peak:N/A



13C4-PFBA
Sample: WG2038443-5

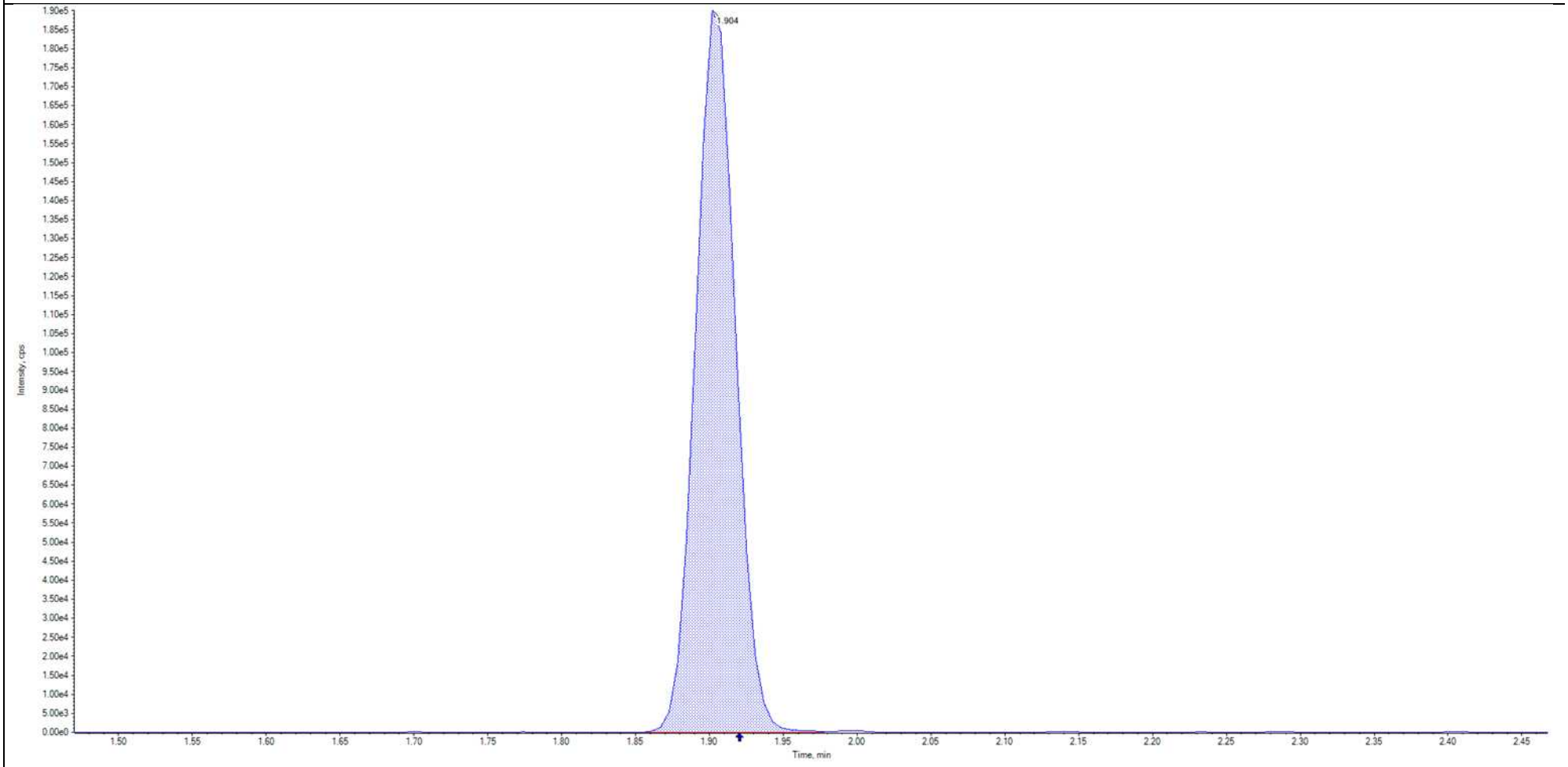


13C5-PFPeA
Sample: WG2038443-5

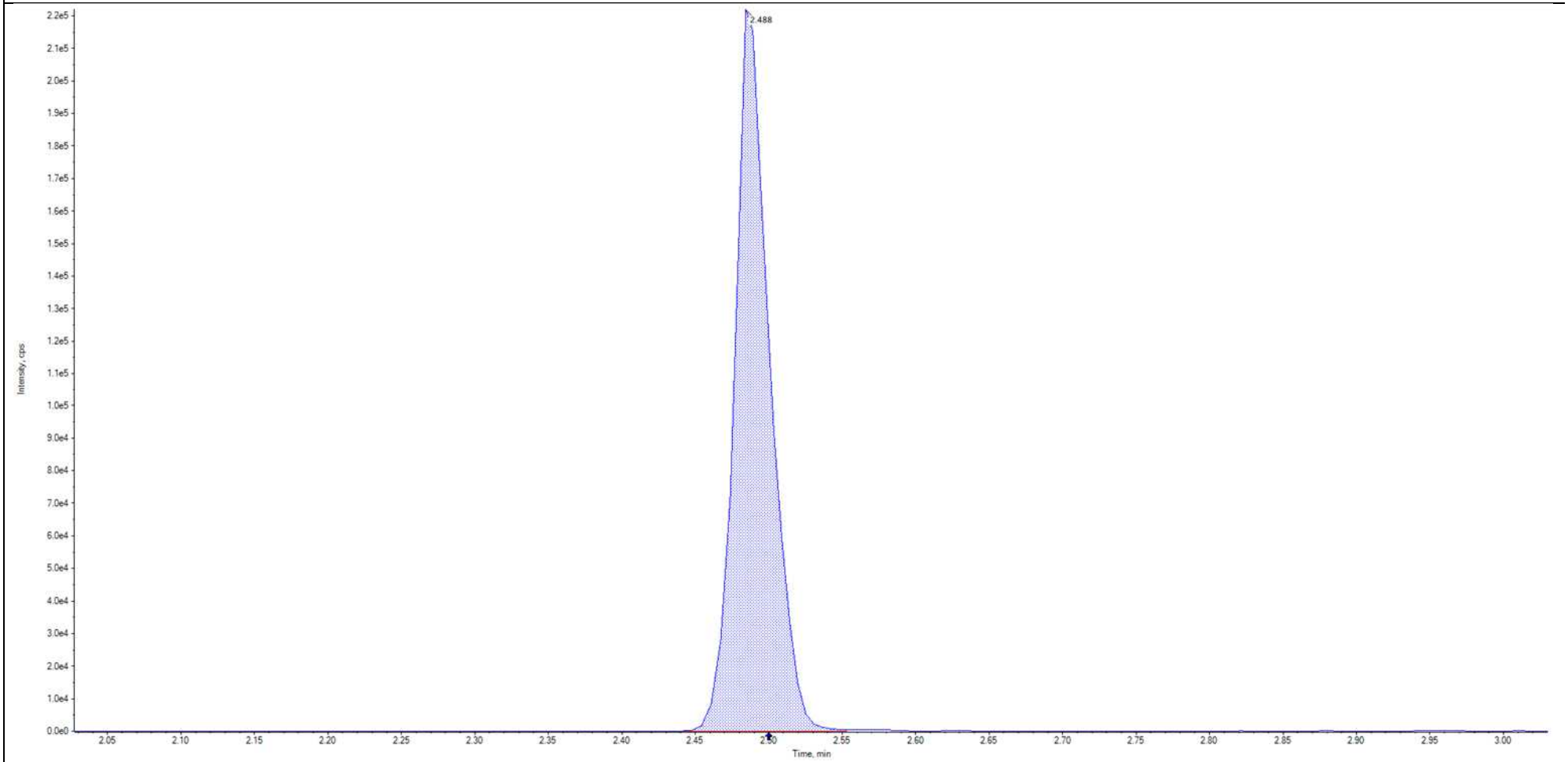


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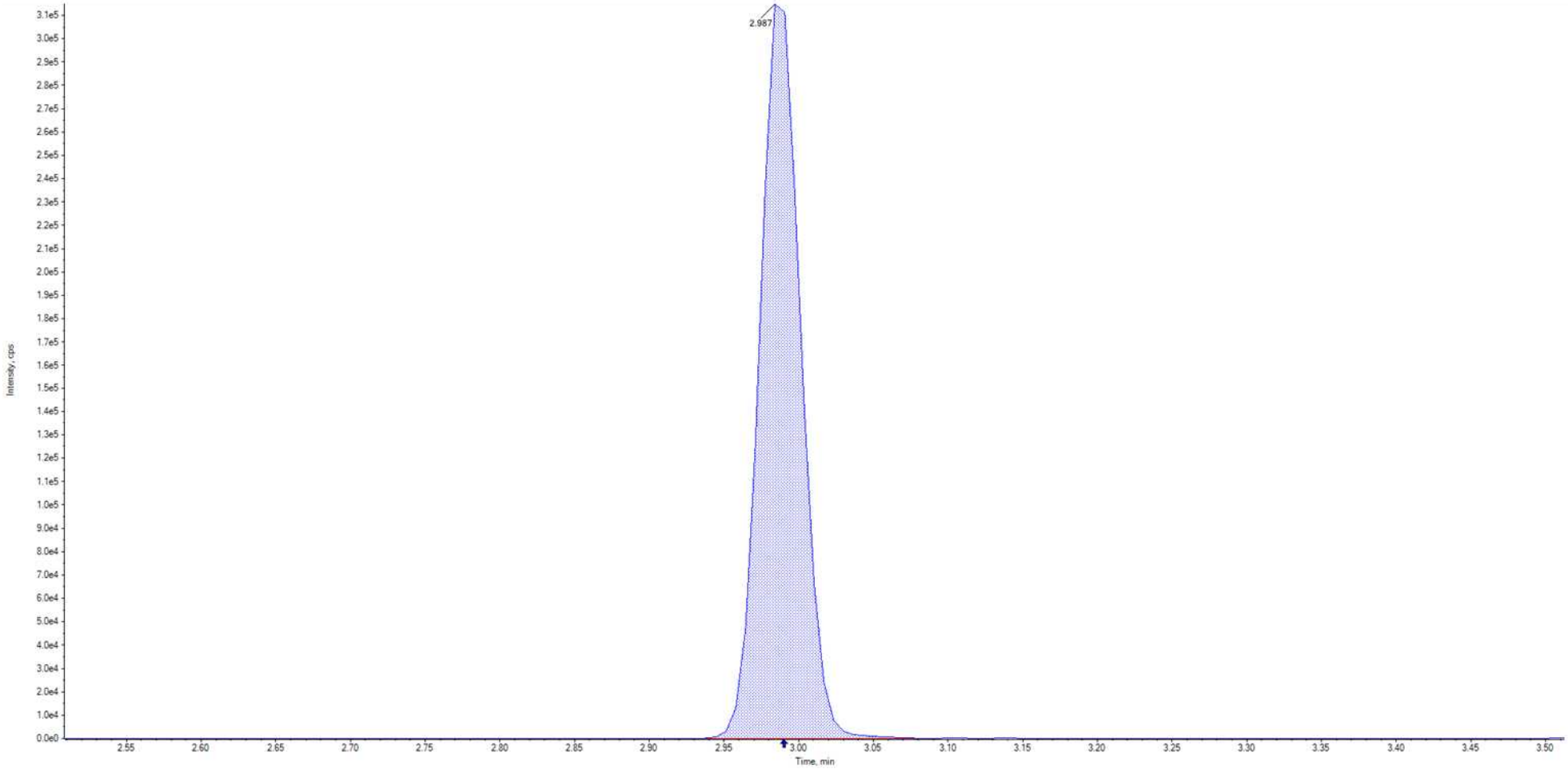
13C5-PFHxA
Sample: WG2038443-5



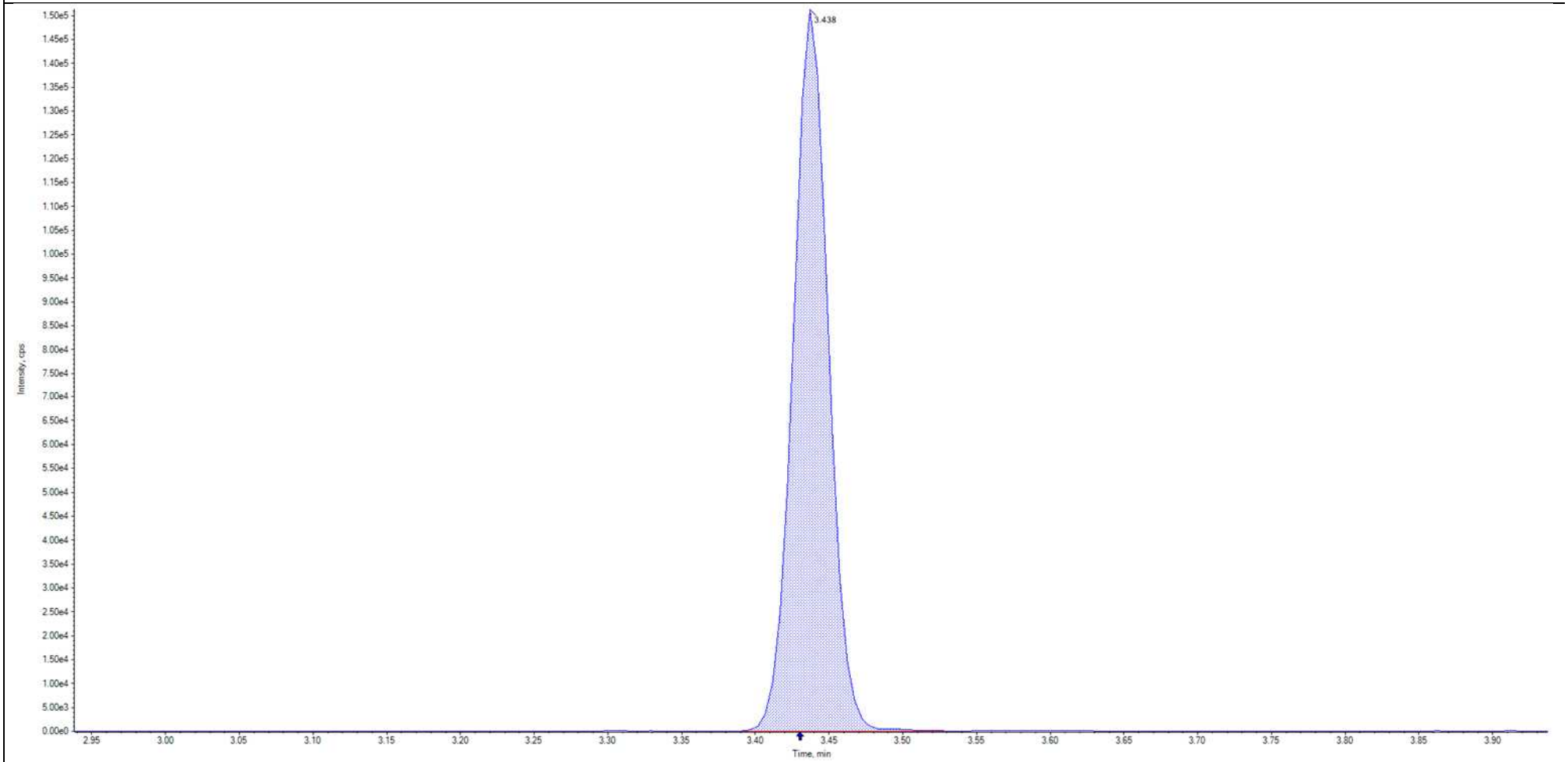
13C4-PFHpA
Sample: WG2038443-5



13C8-PFOA
Sample: WG2038443-5

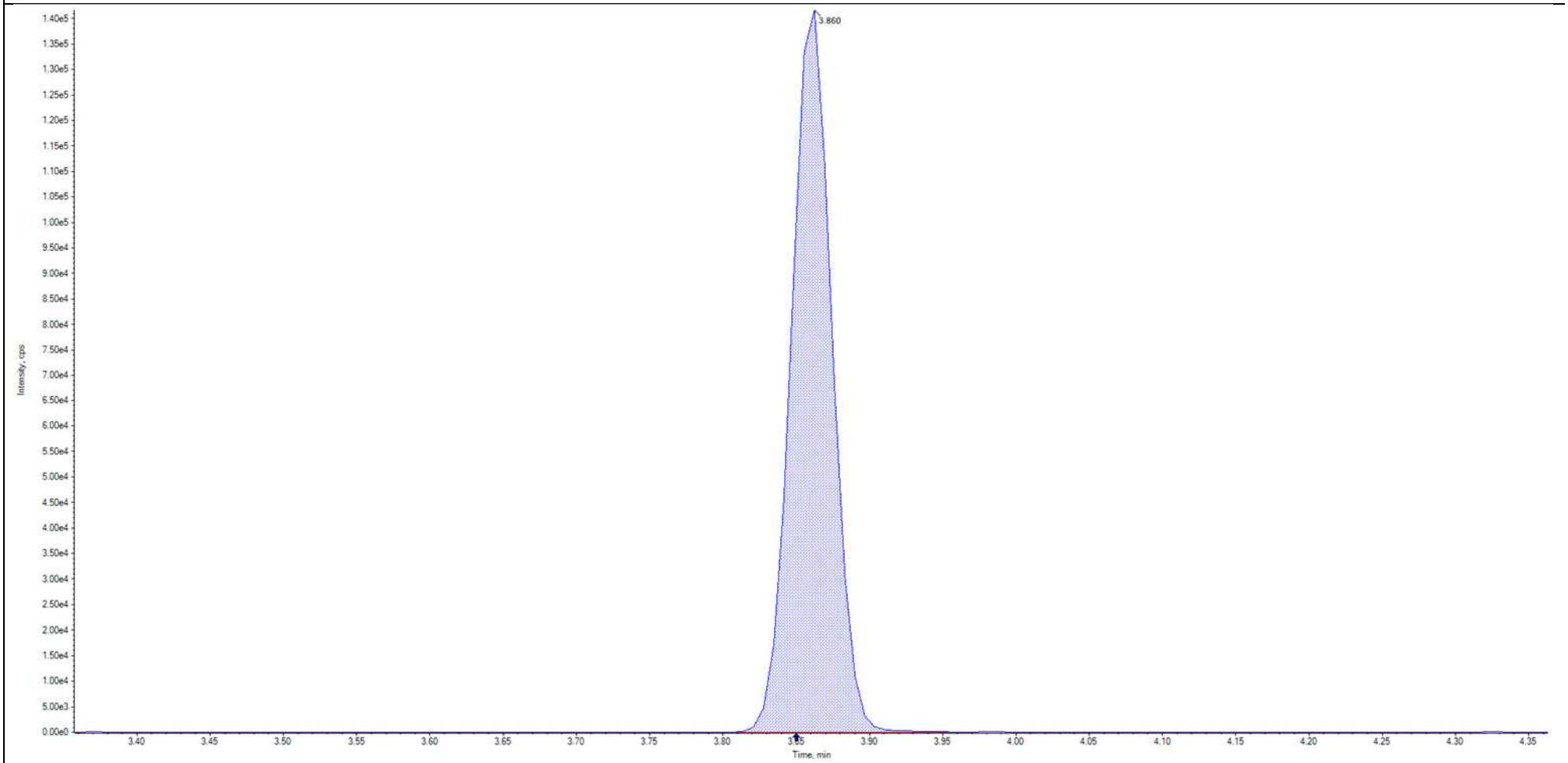


13C9-PFNA
Sample: WG2038443-5

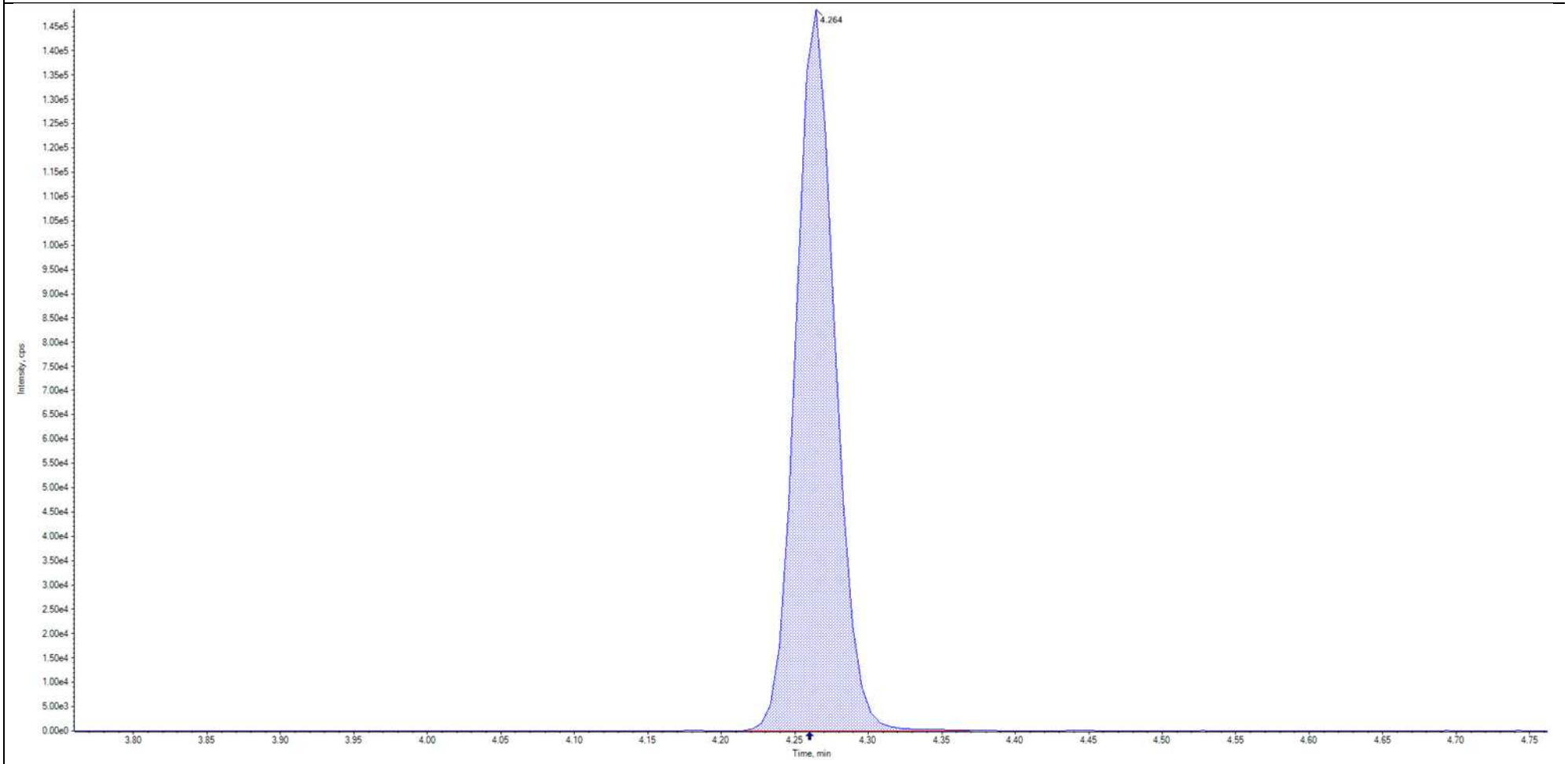


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13C6-PFDA
Sample: WG2038443-5

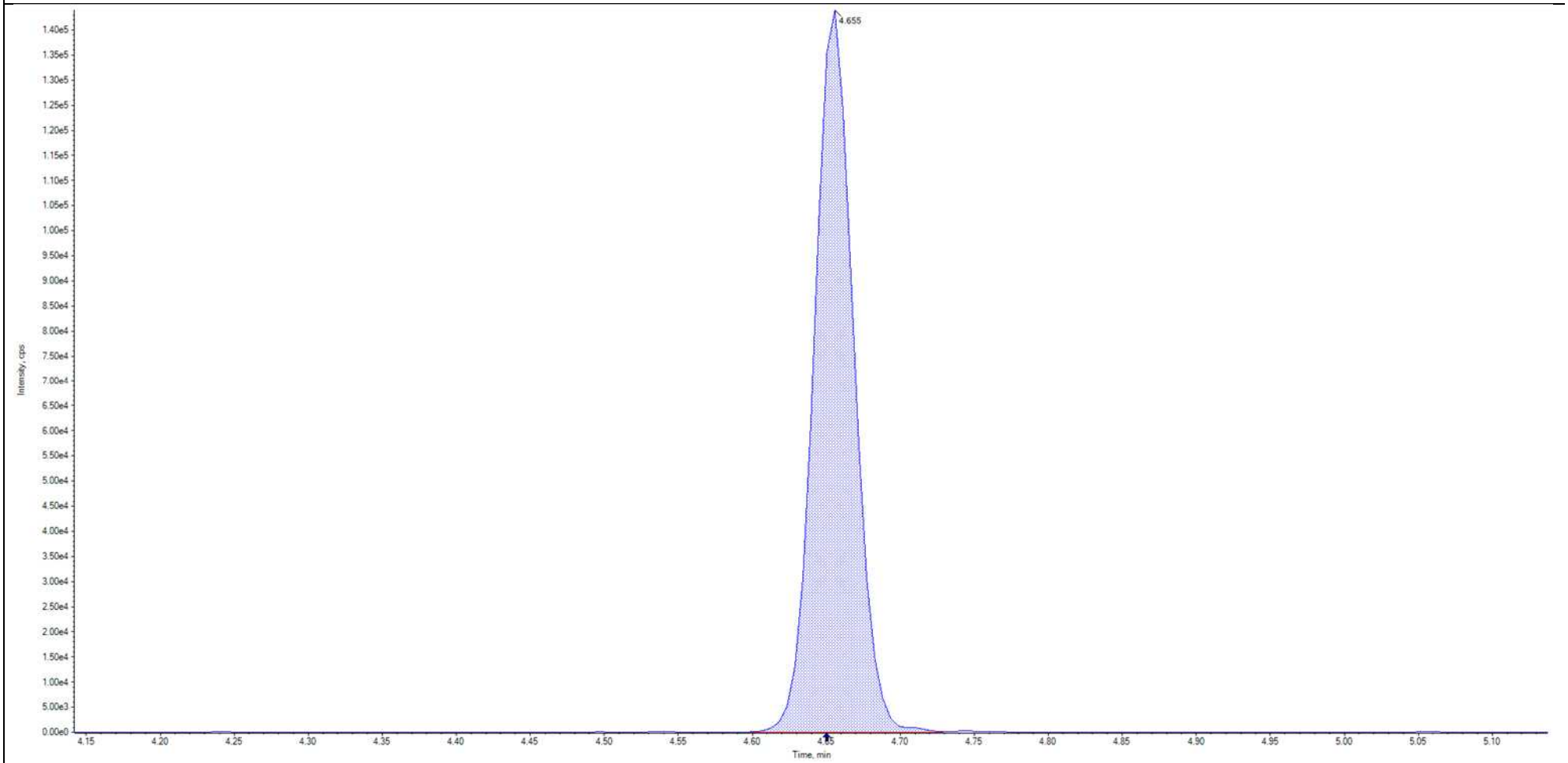


13C7-PFUnA
Sample: WG2038443-5



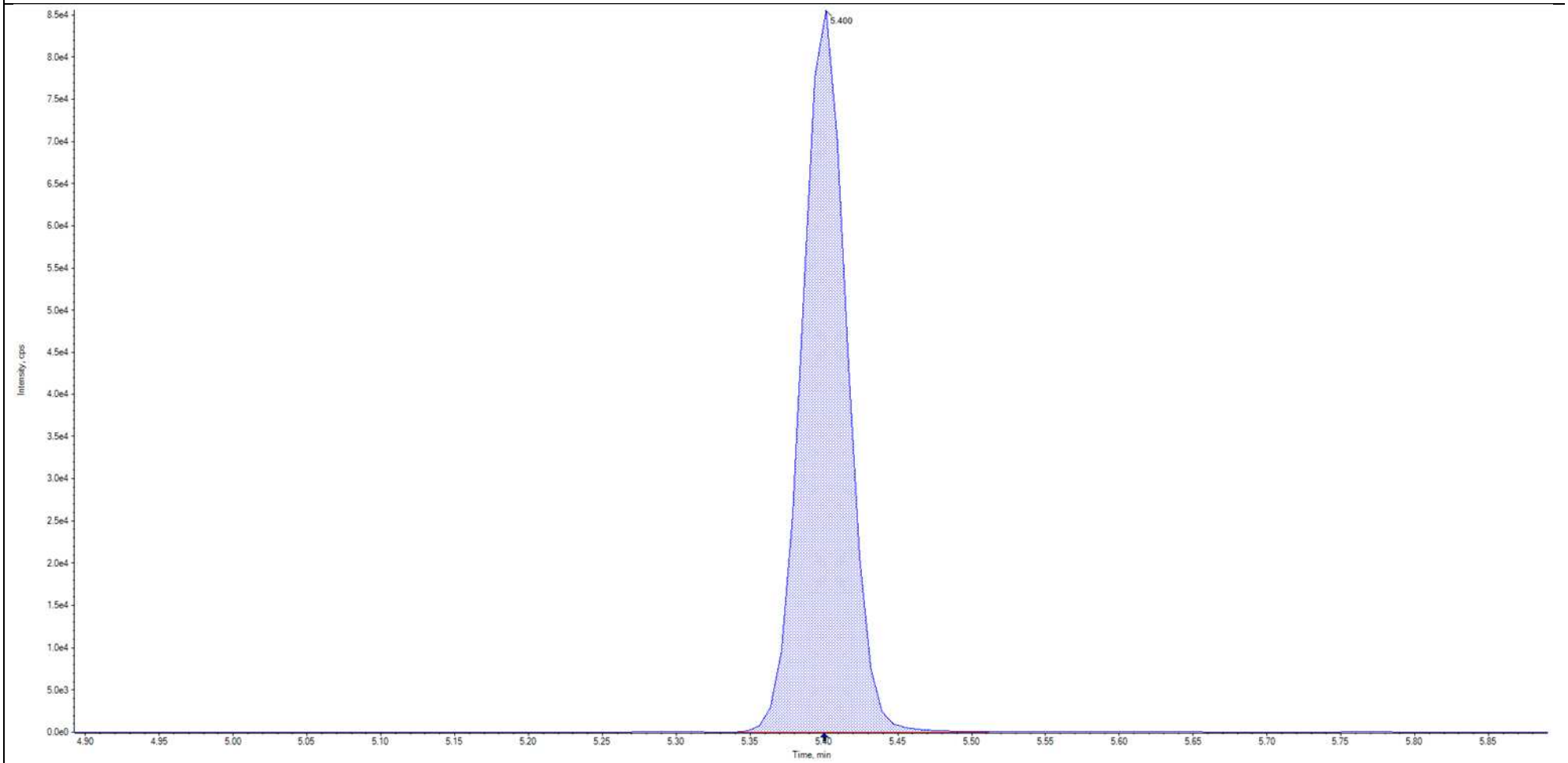
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13C2-PFDoA
Sample: WG2038443-5



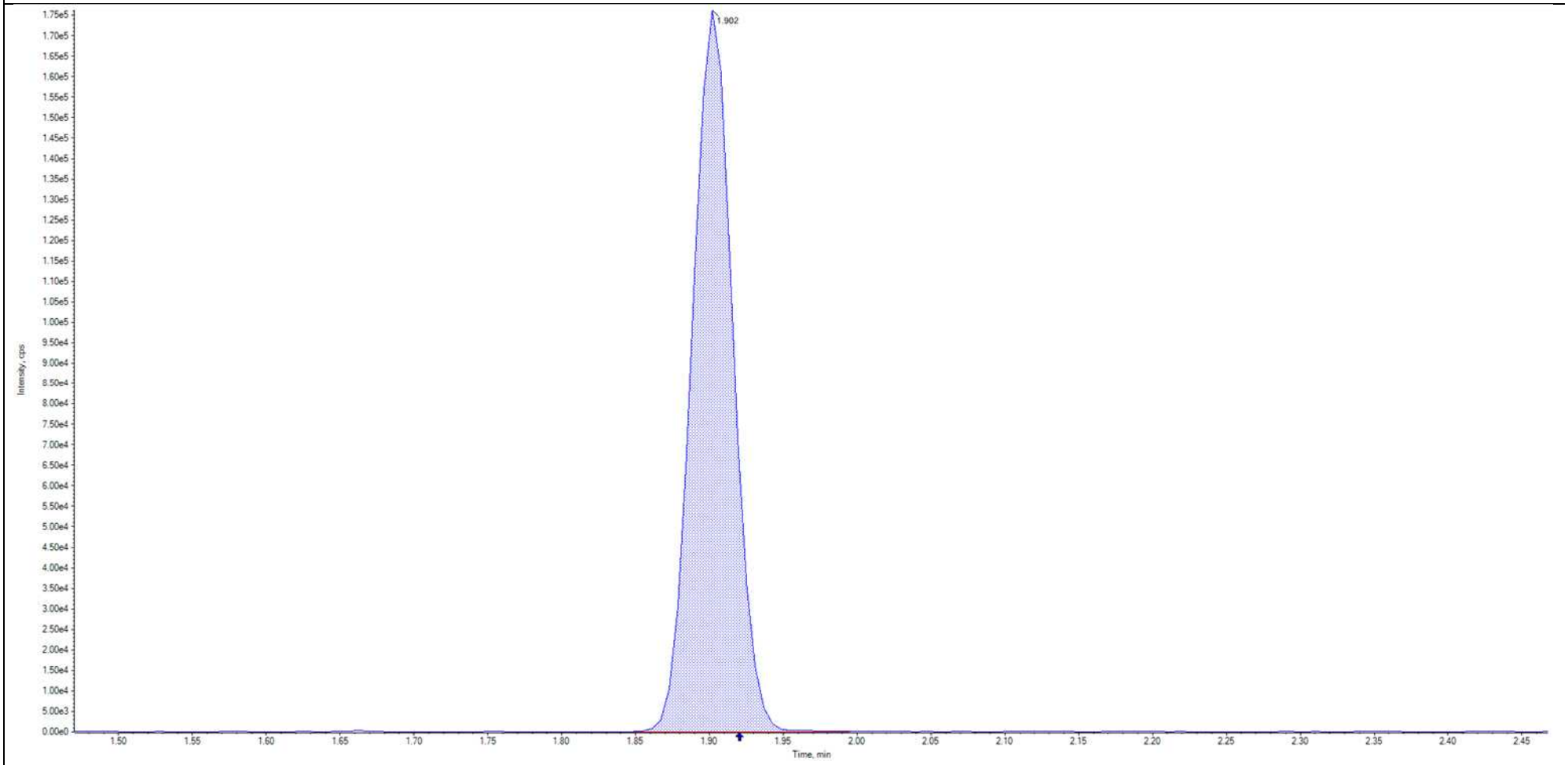
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13C2-PFTeDA
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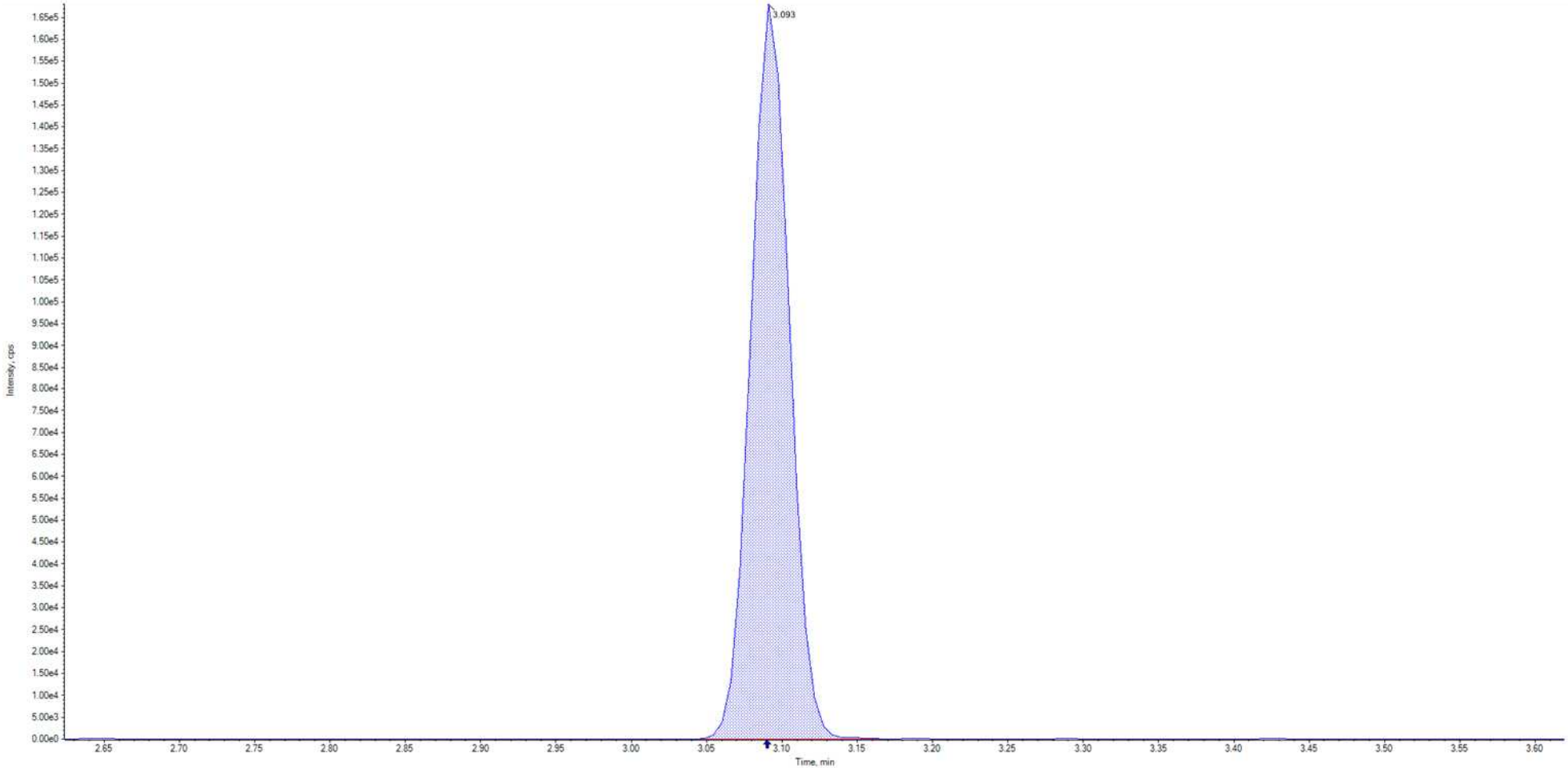


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13C3-PFBS
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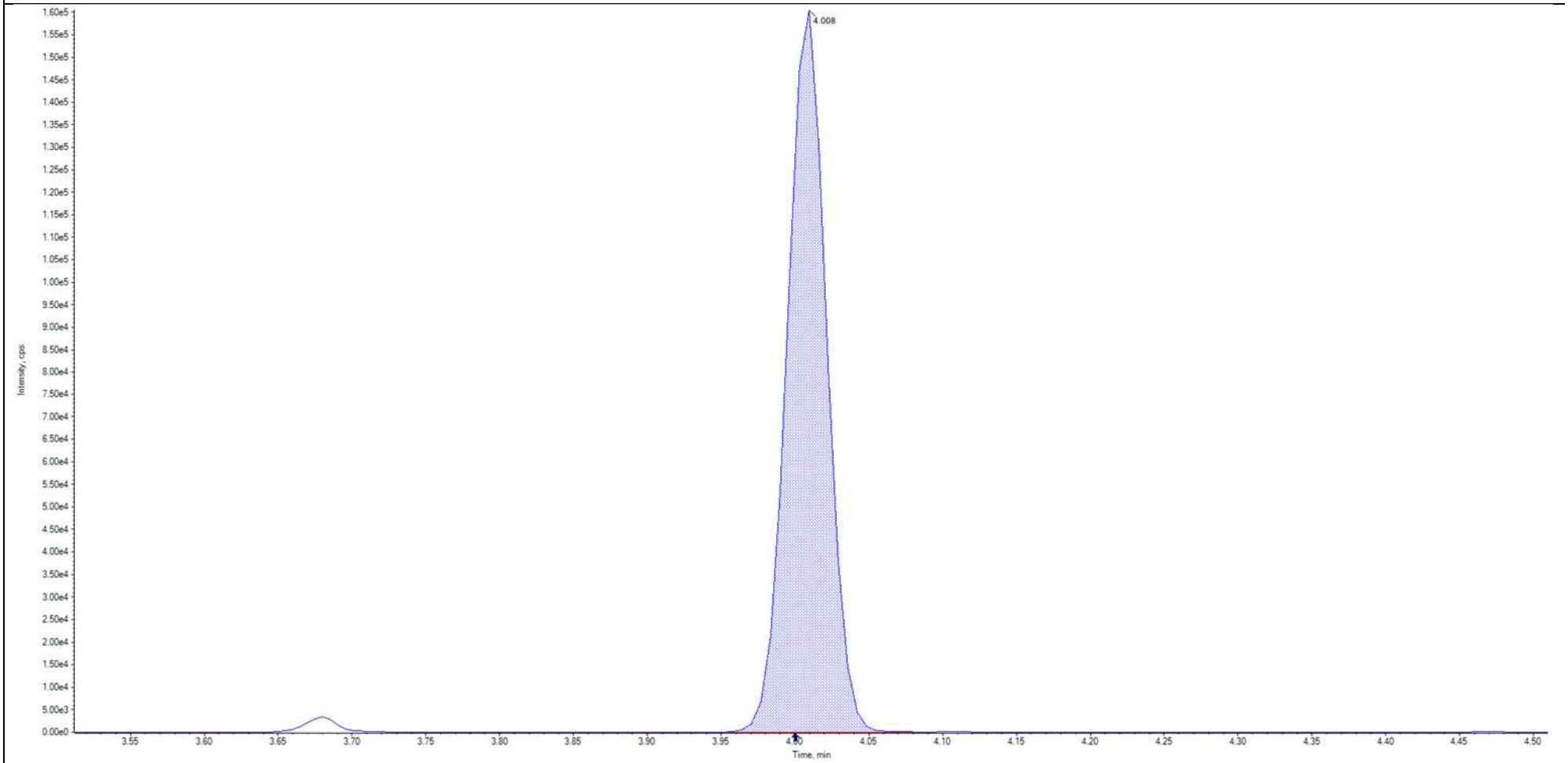


13C3-PFHxS
Sample: WG2038443-5



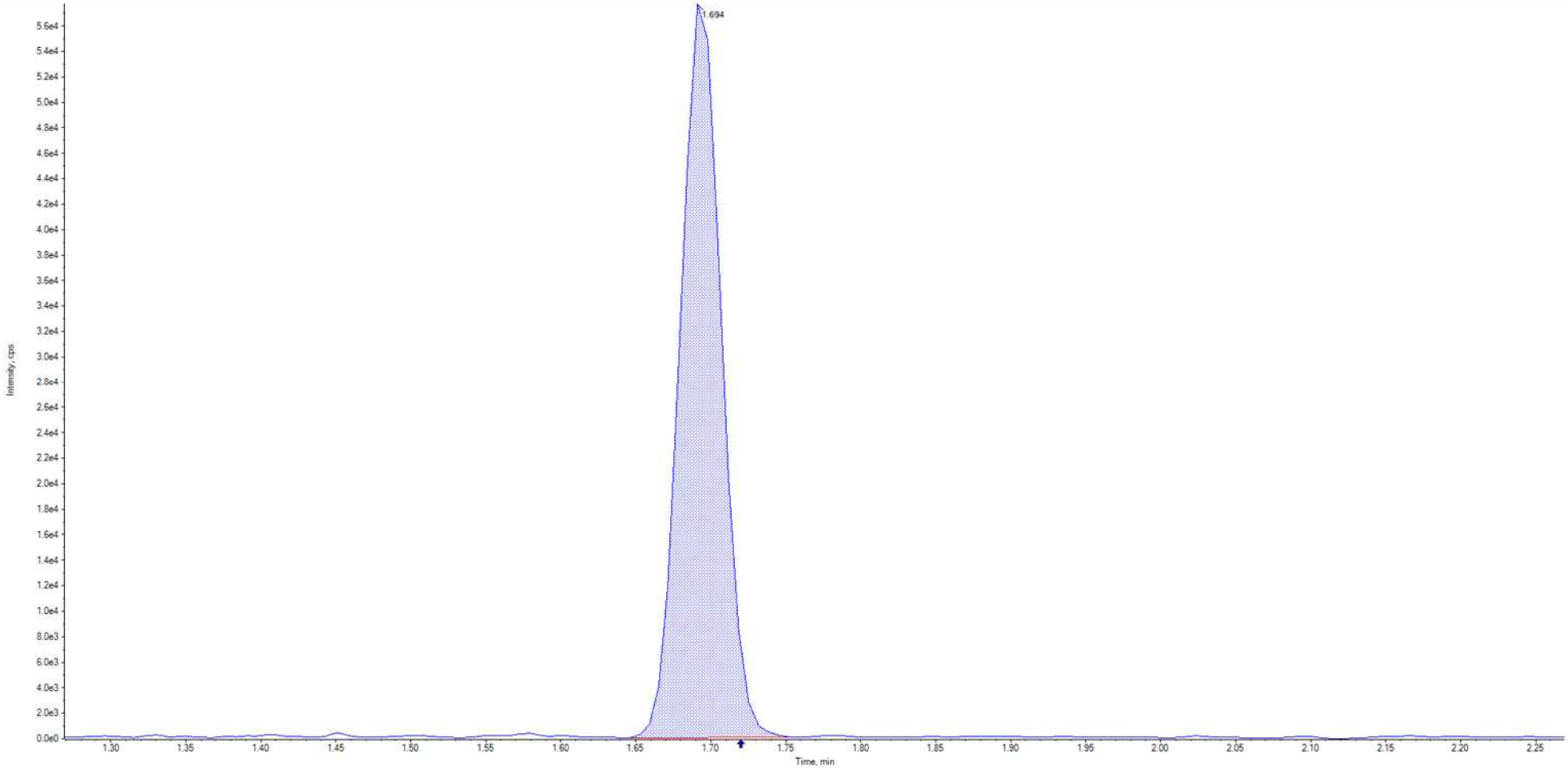
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13C8-PFOS
Sample: WG2038443-5

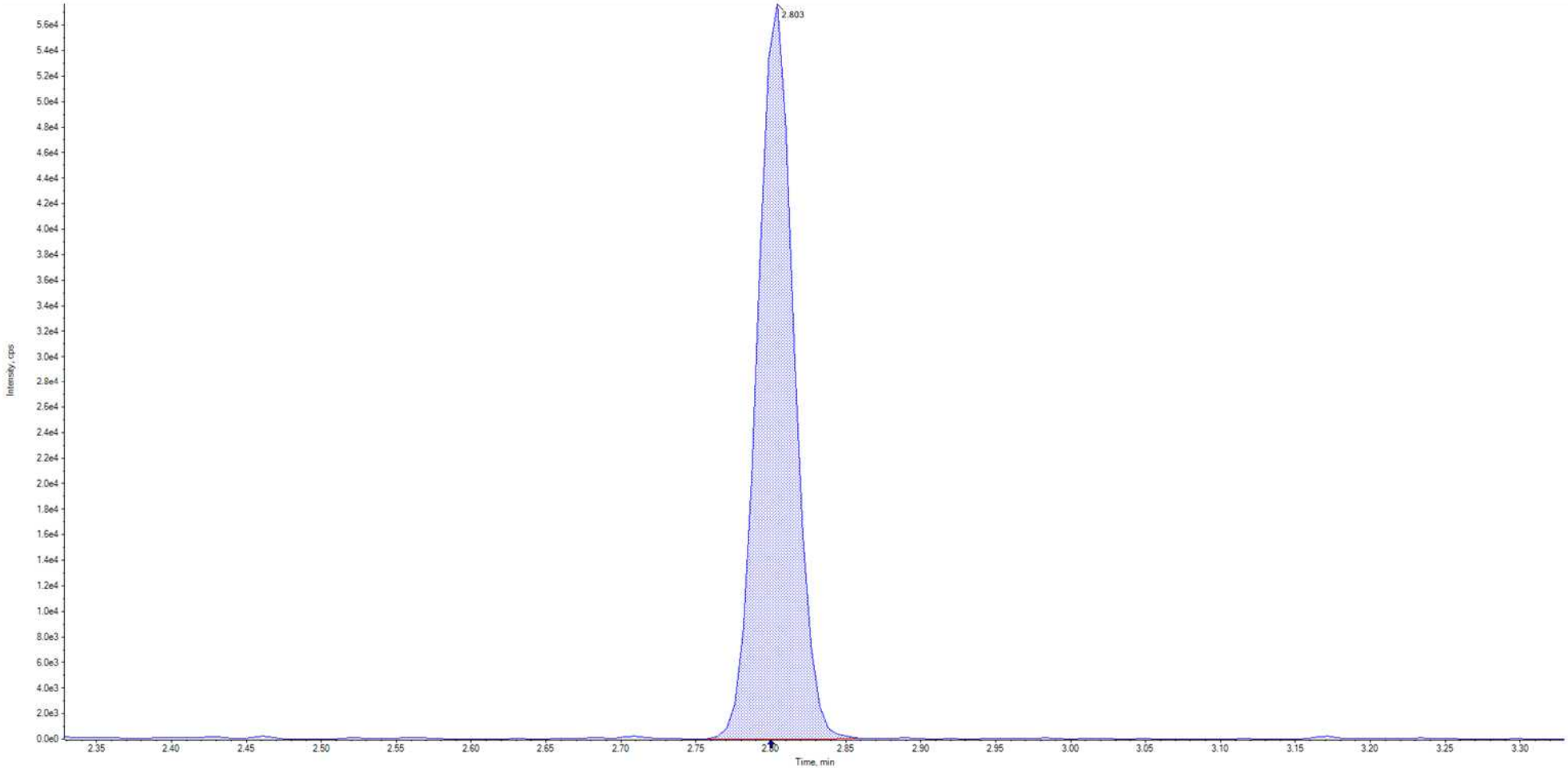


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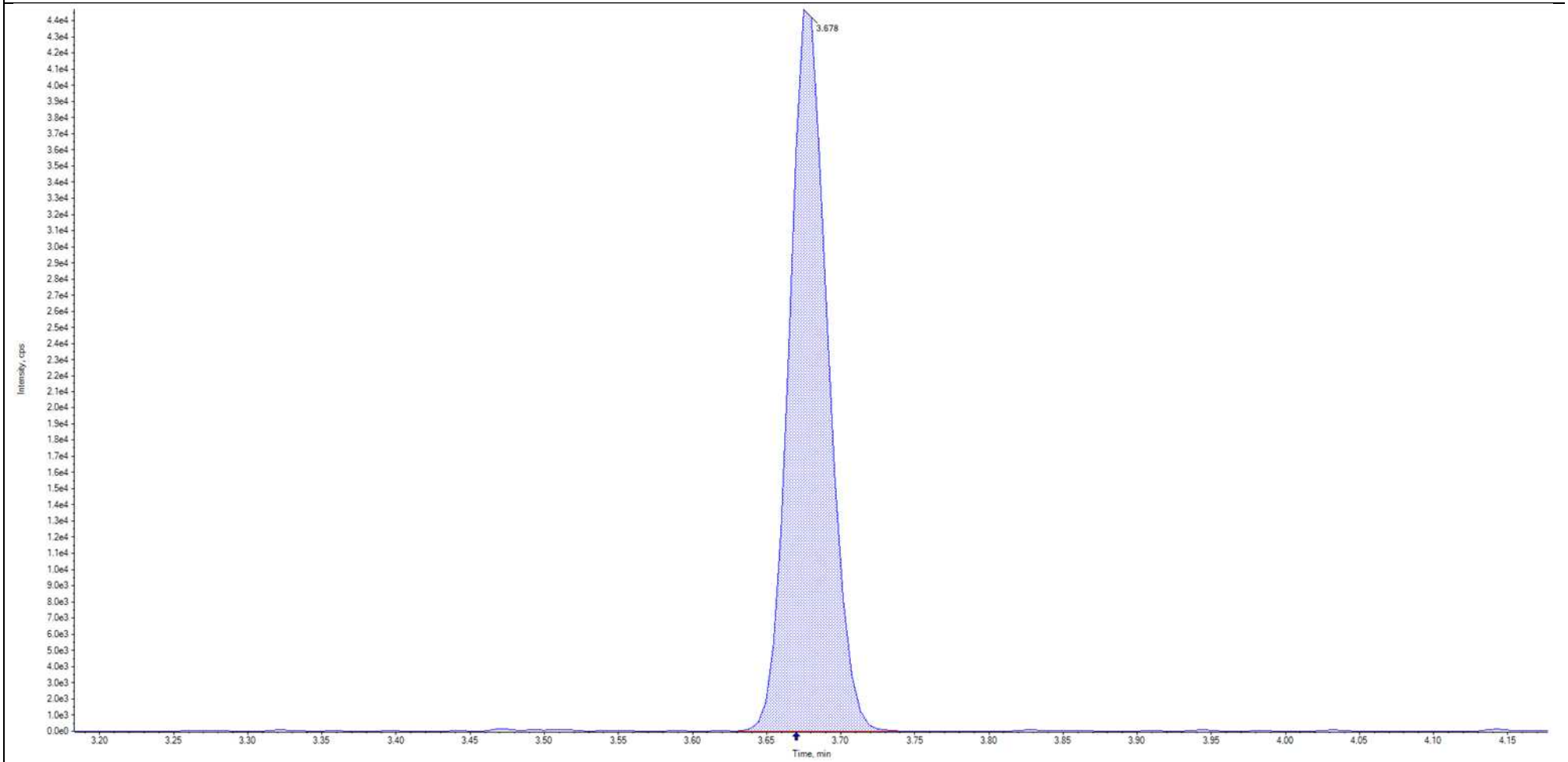
13C2-4:2FTS
Sample: WG2038443-5



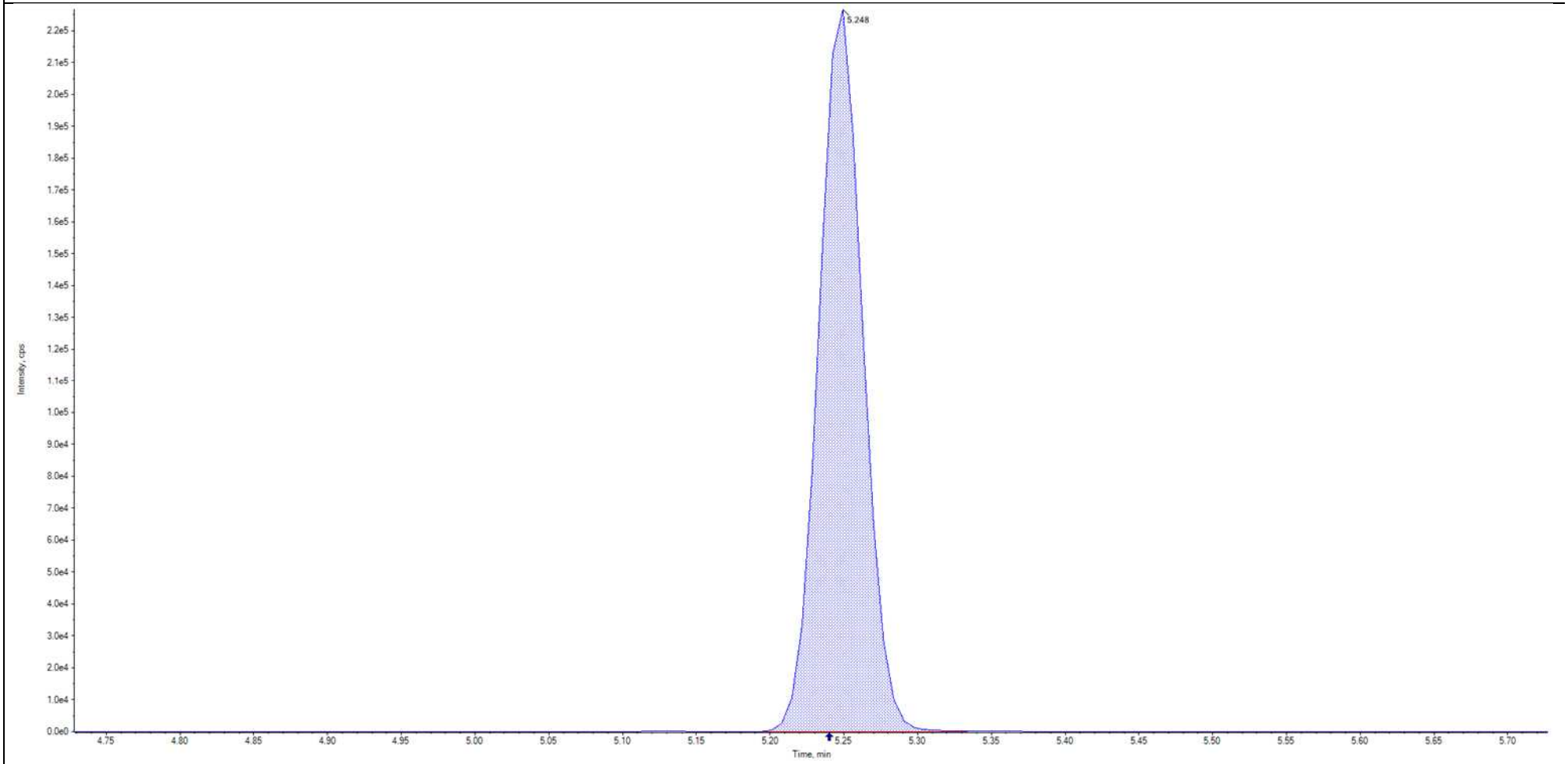
13C2-6:2FTS
Sample: WG2038443-5



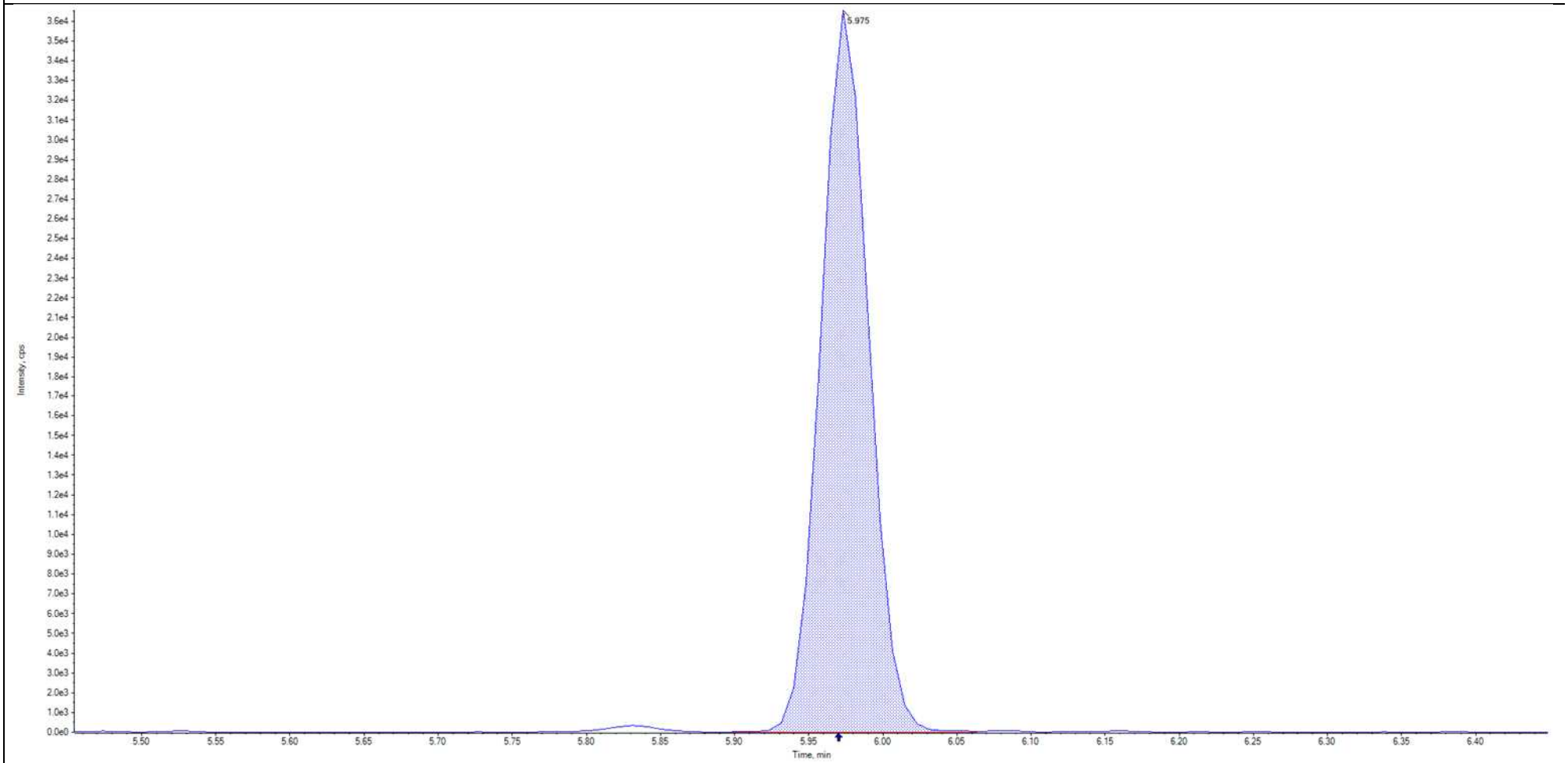
13C2-8:2FTS
Sample: WG2038443-5



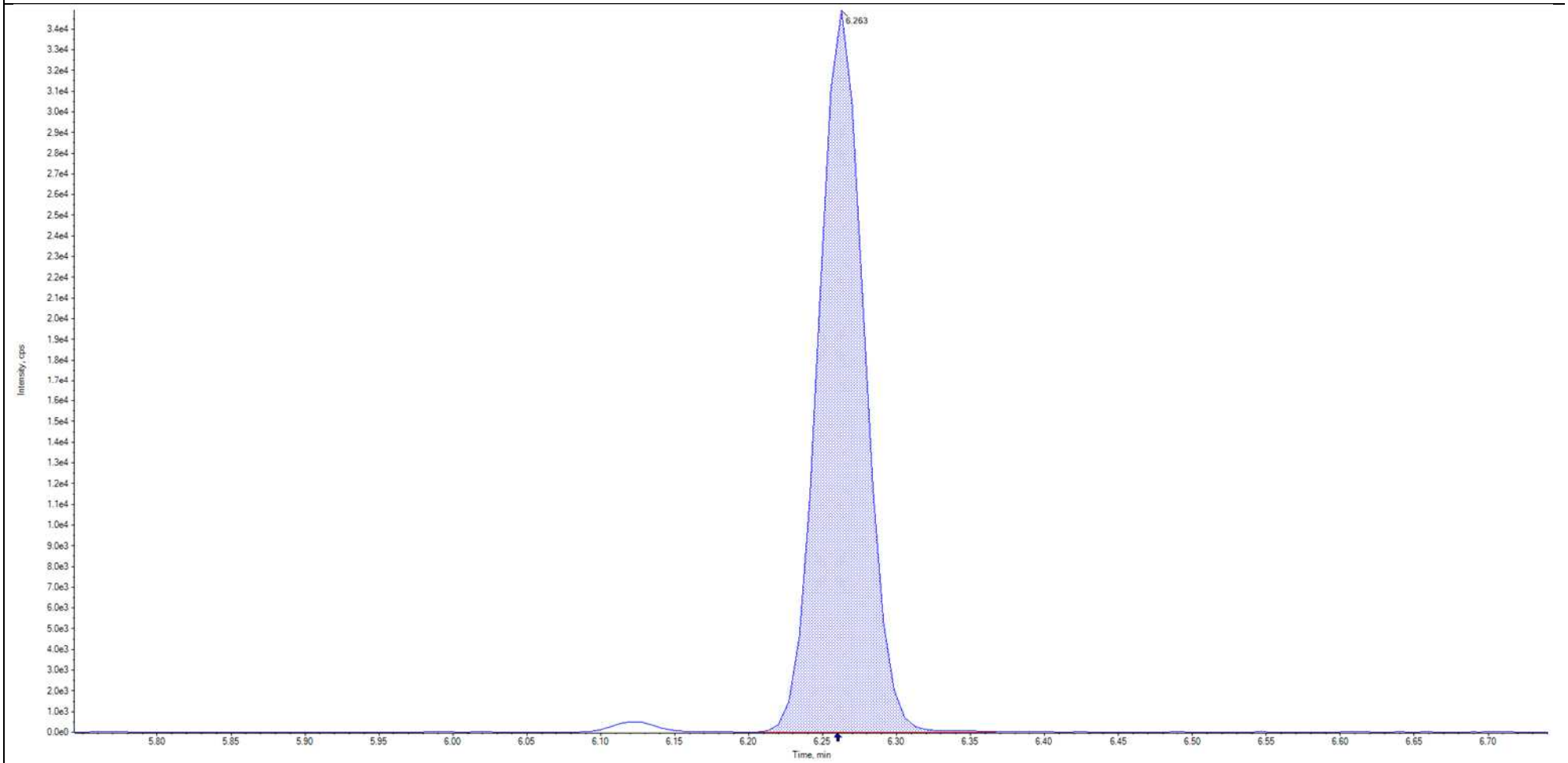
13C8-PFOSA
Sample: WG2038443-5



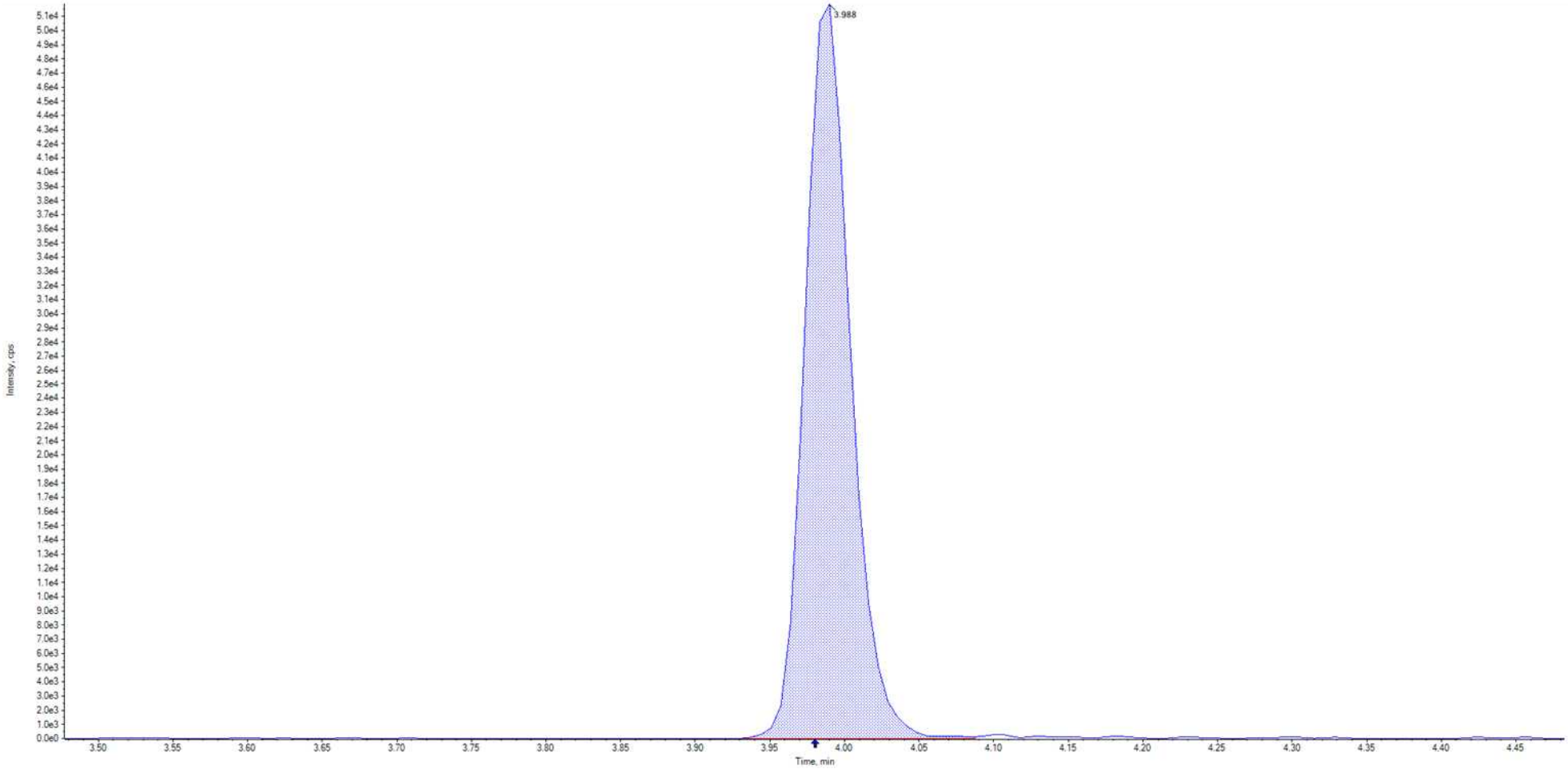
d3-NMeFOSA
Sample: WG2038443-5



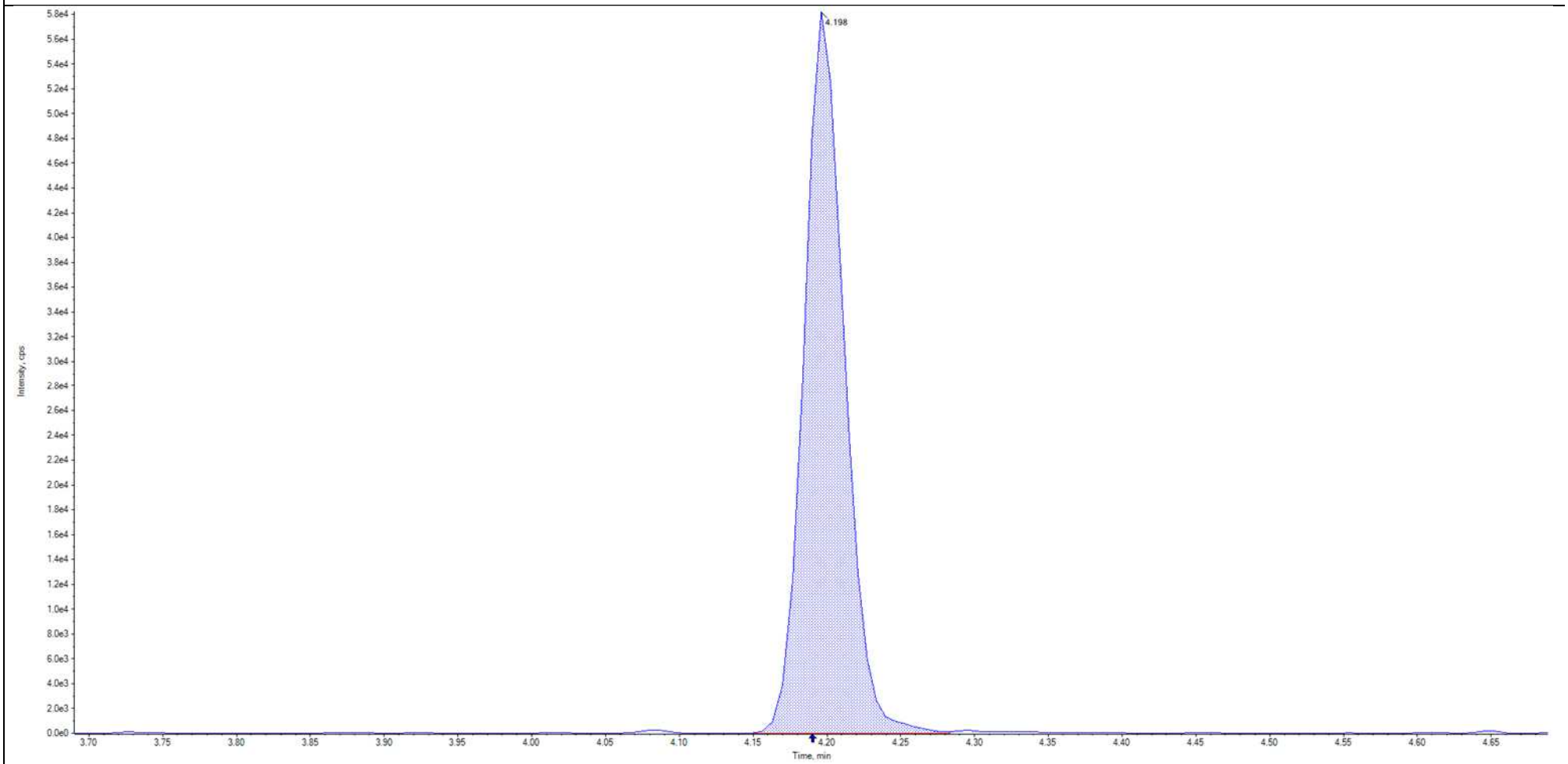
d5-NEtFOSA
Sample: WG2038443-5



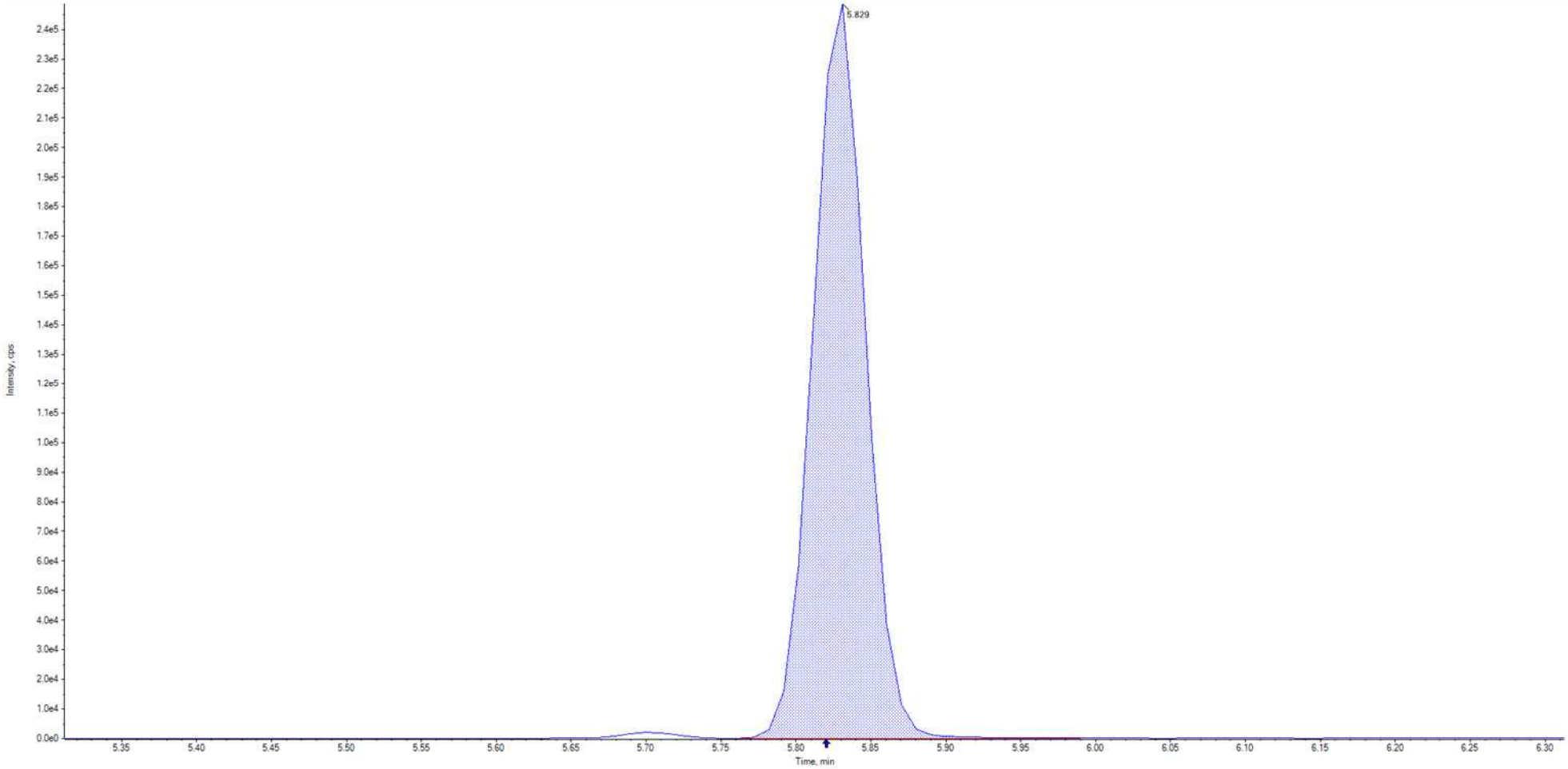
d3-NMeFOSAA
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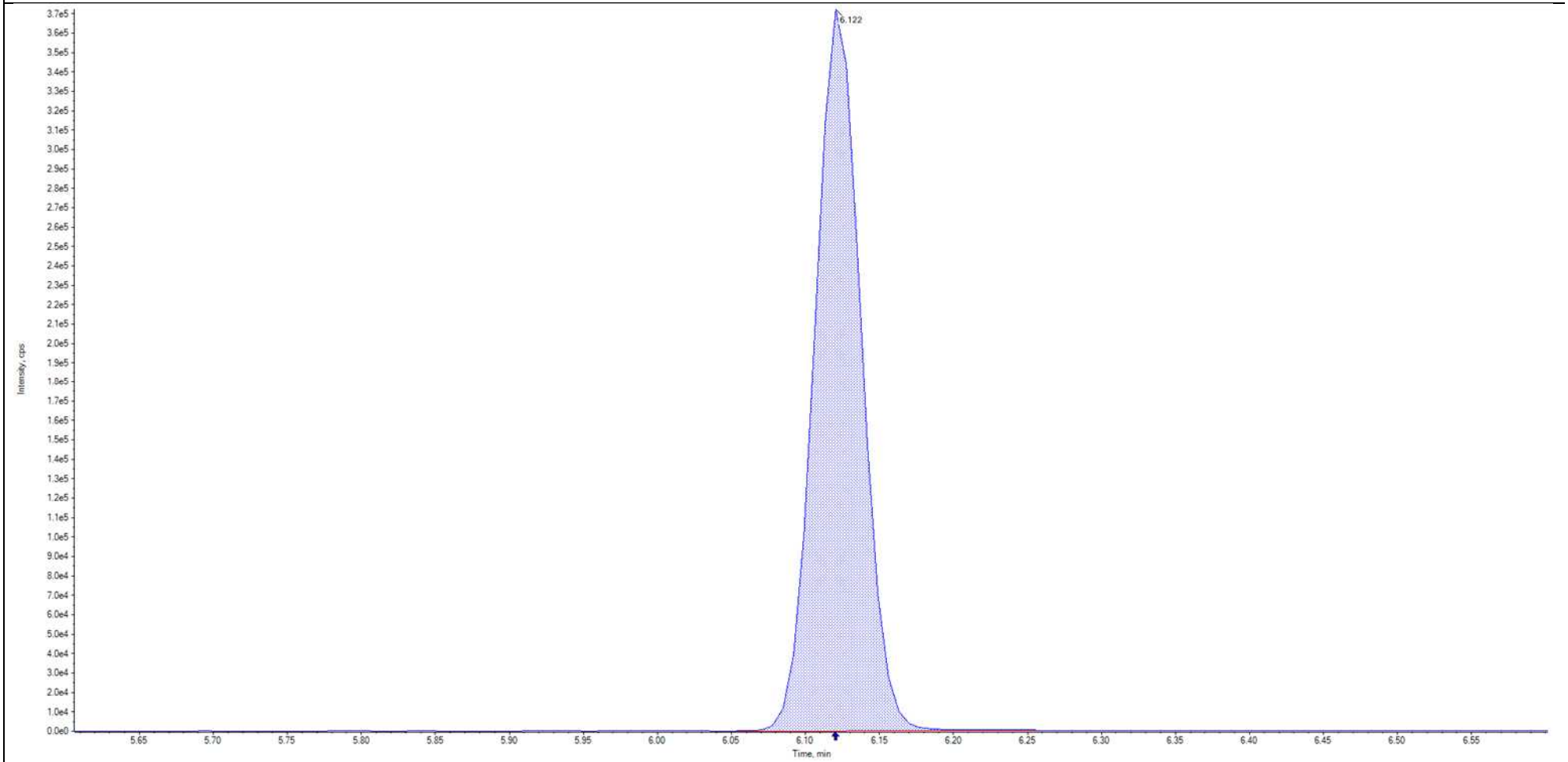
d5-NEtFOSAA
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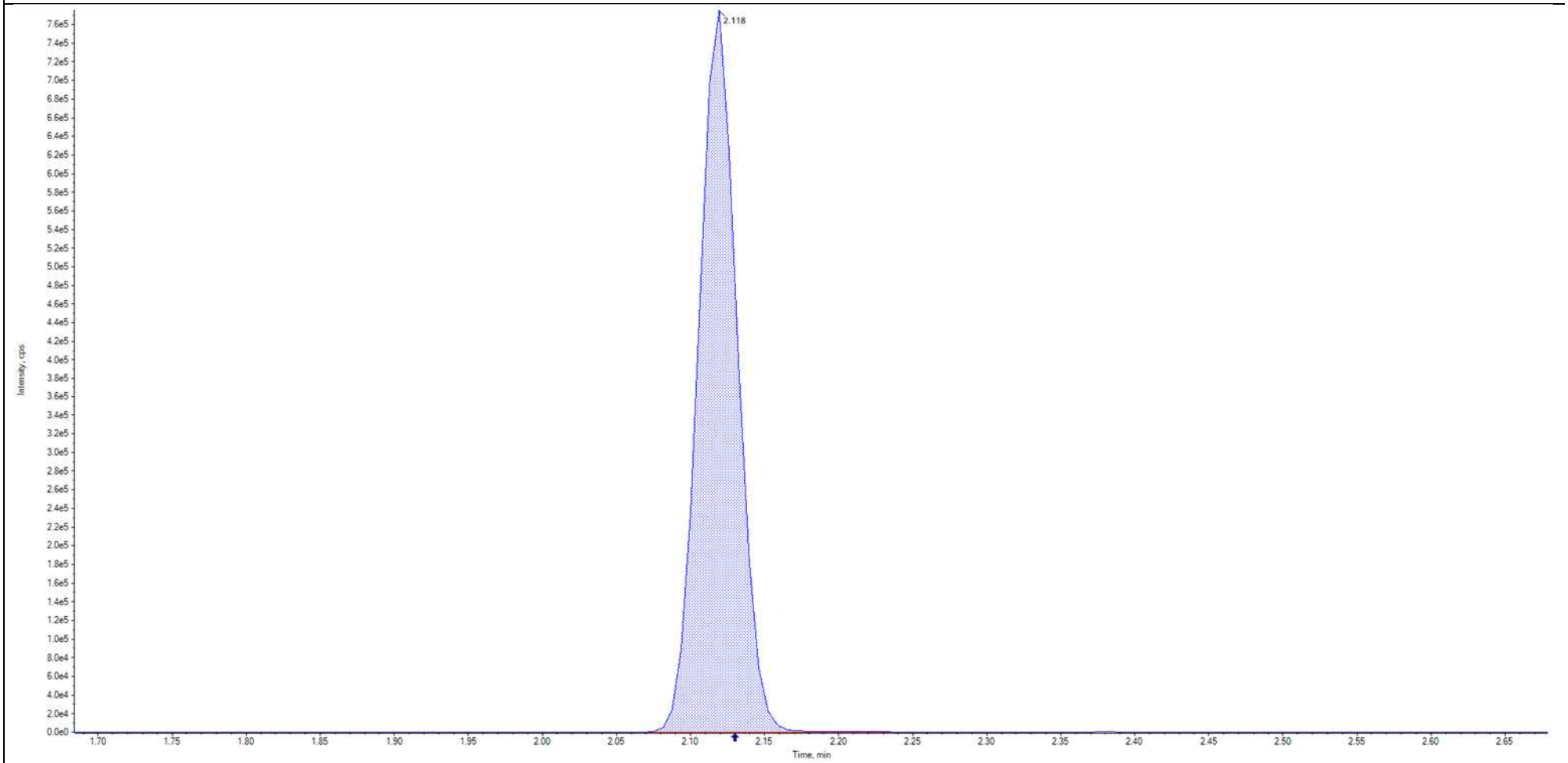
d7-NMeFOSE
Sample: WG2038443-5



d9-NEtFOSE
Sample: WG2038443-5

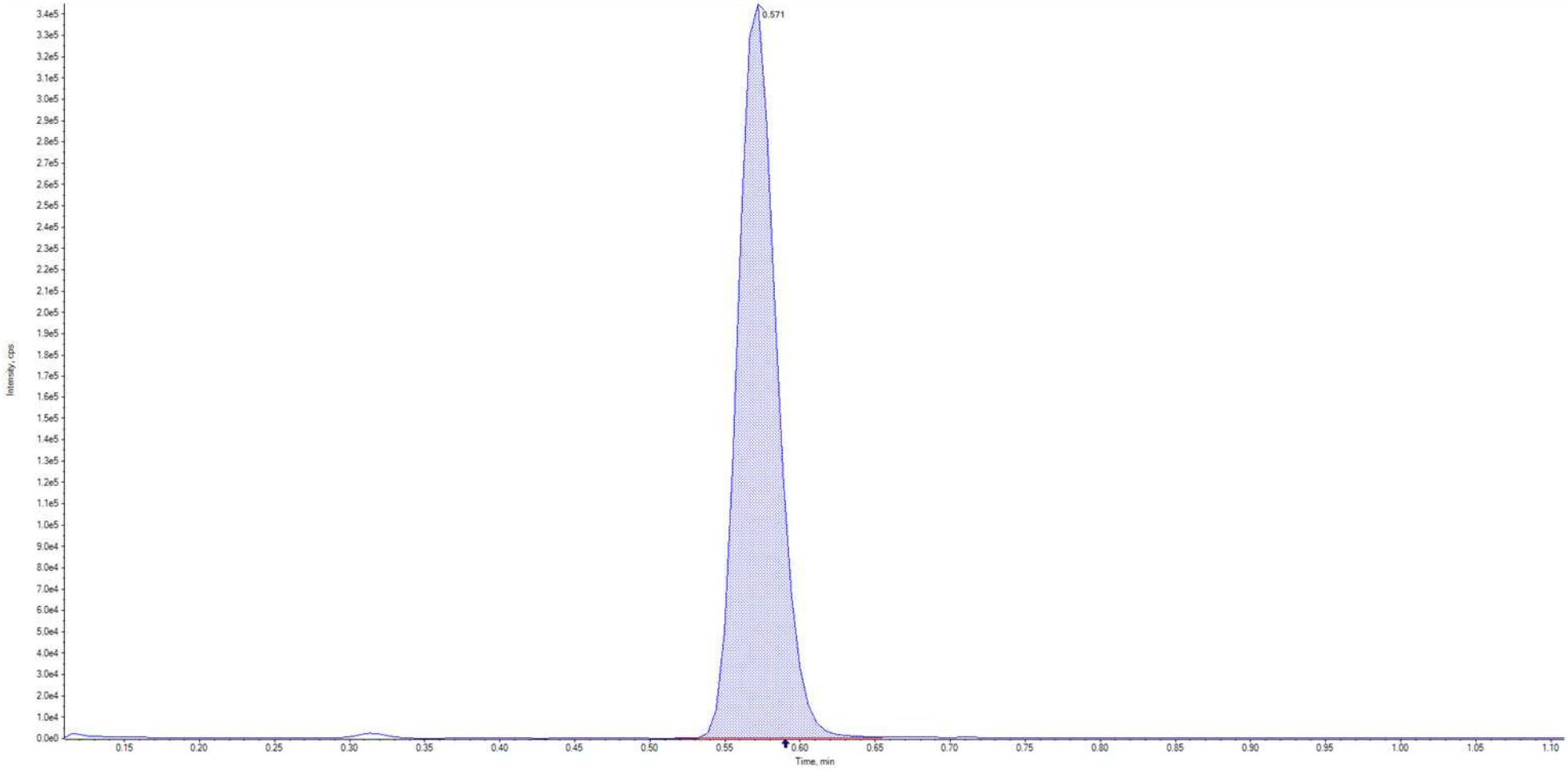


13C3-HFPO-DA
Sample: WG2038443-5

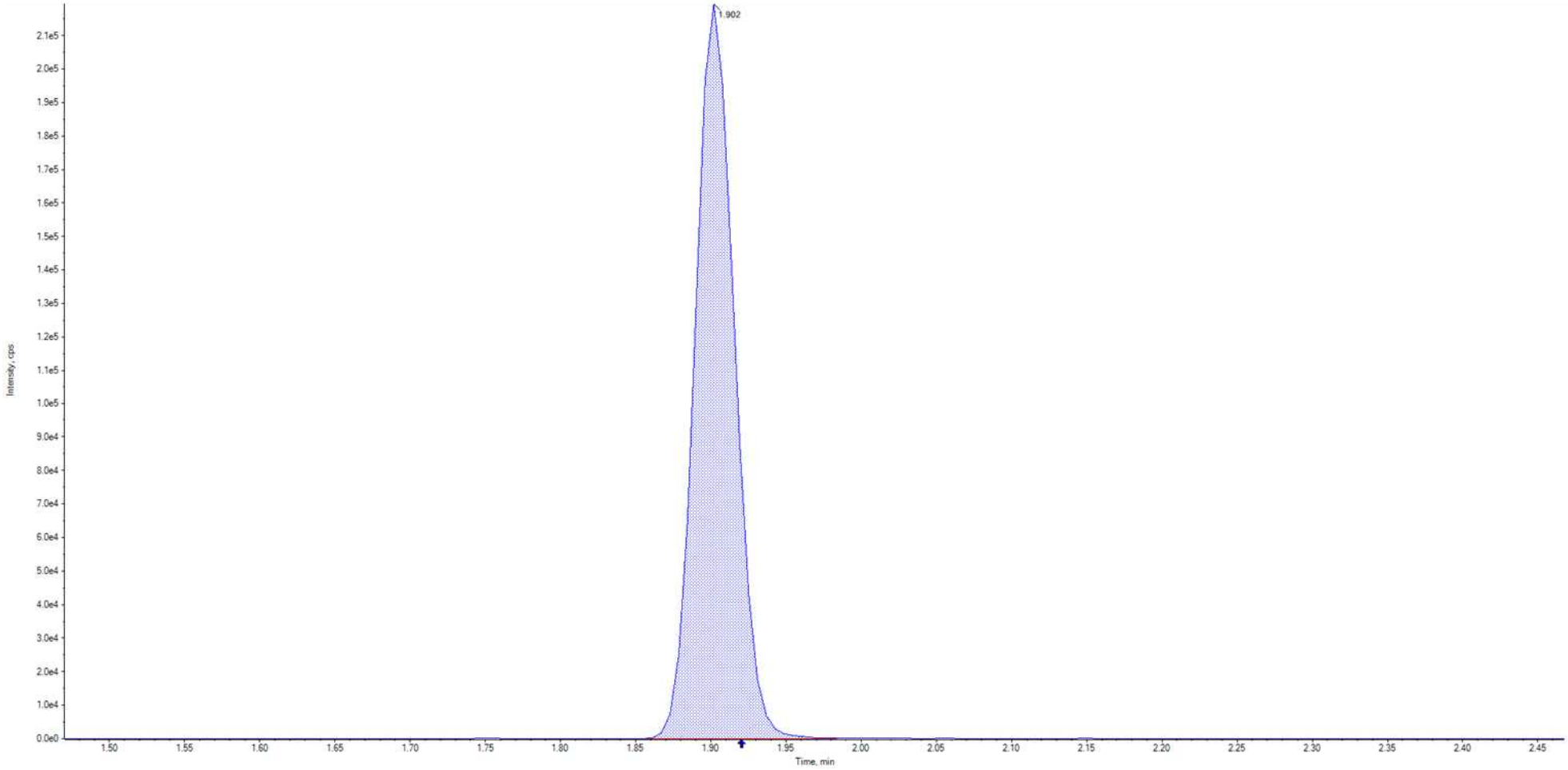


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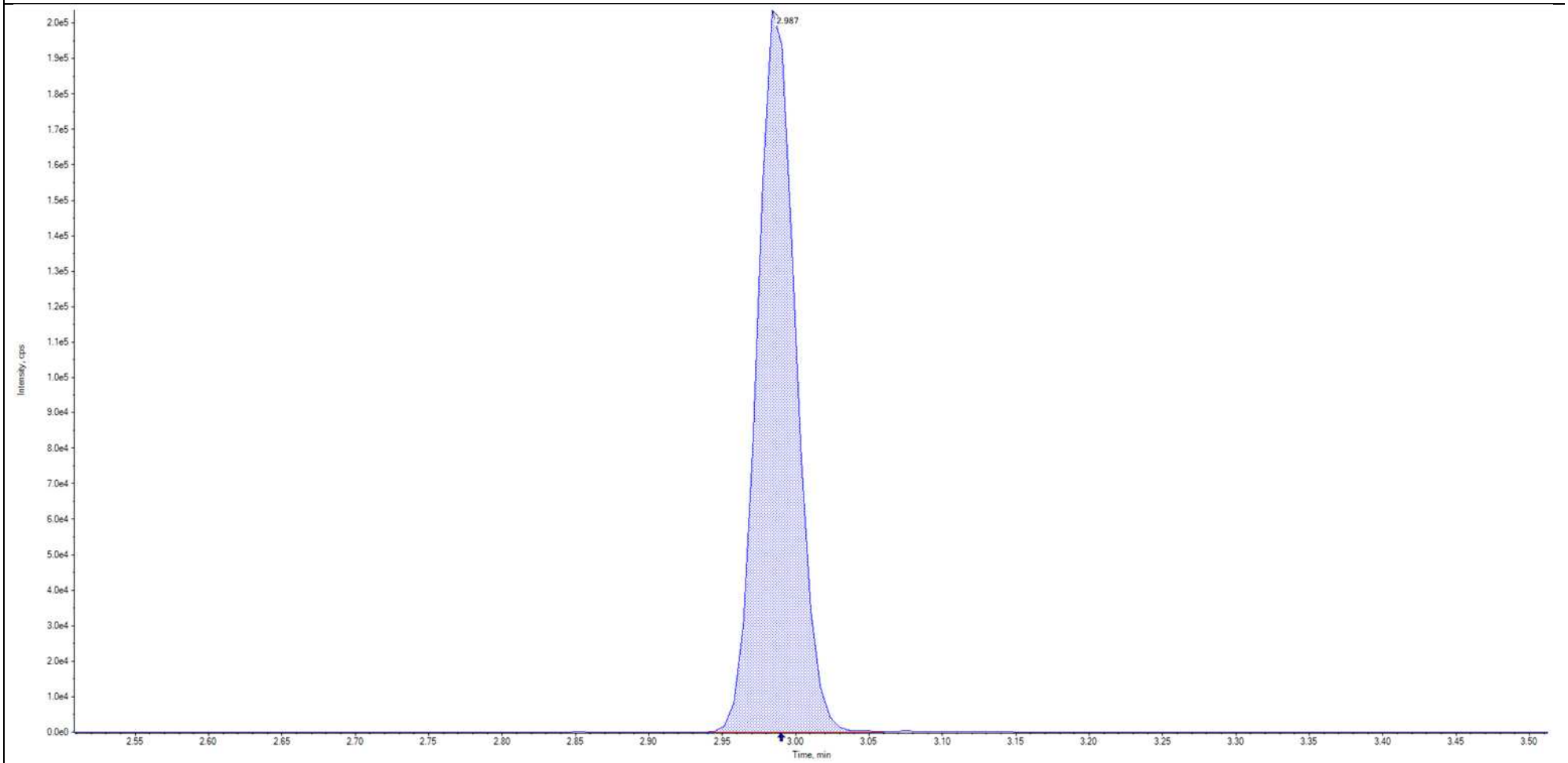
13C3-PFBA
Sample: WG2038443-5



13C2-PFHxA
Sample: WG2038443-5

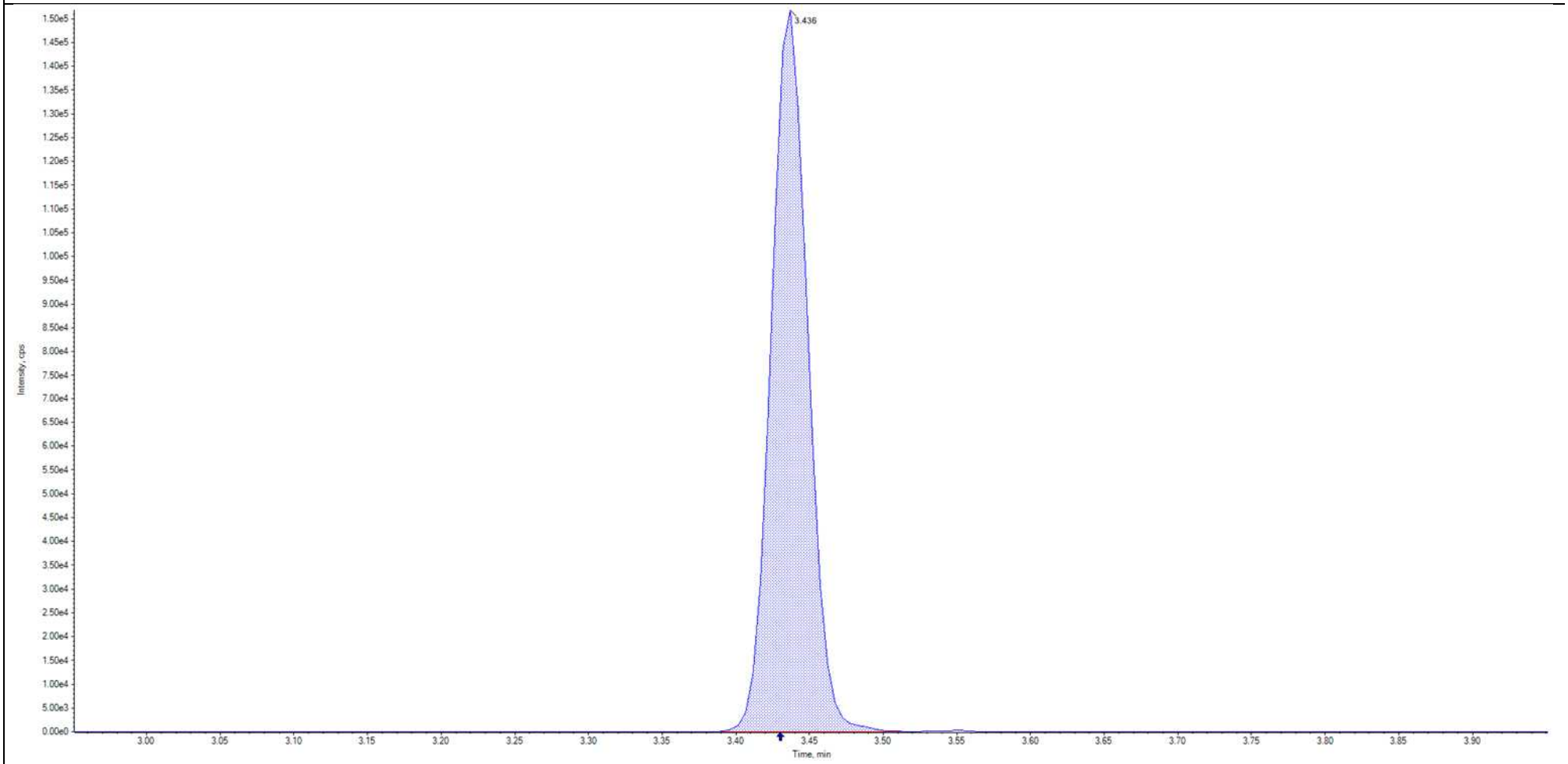


13C4-PFOA
Sample: WG2038443-5

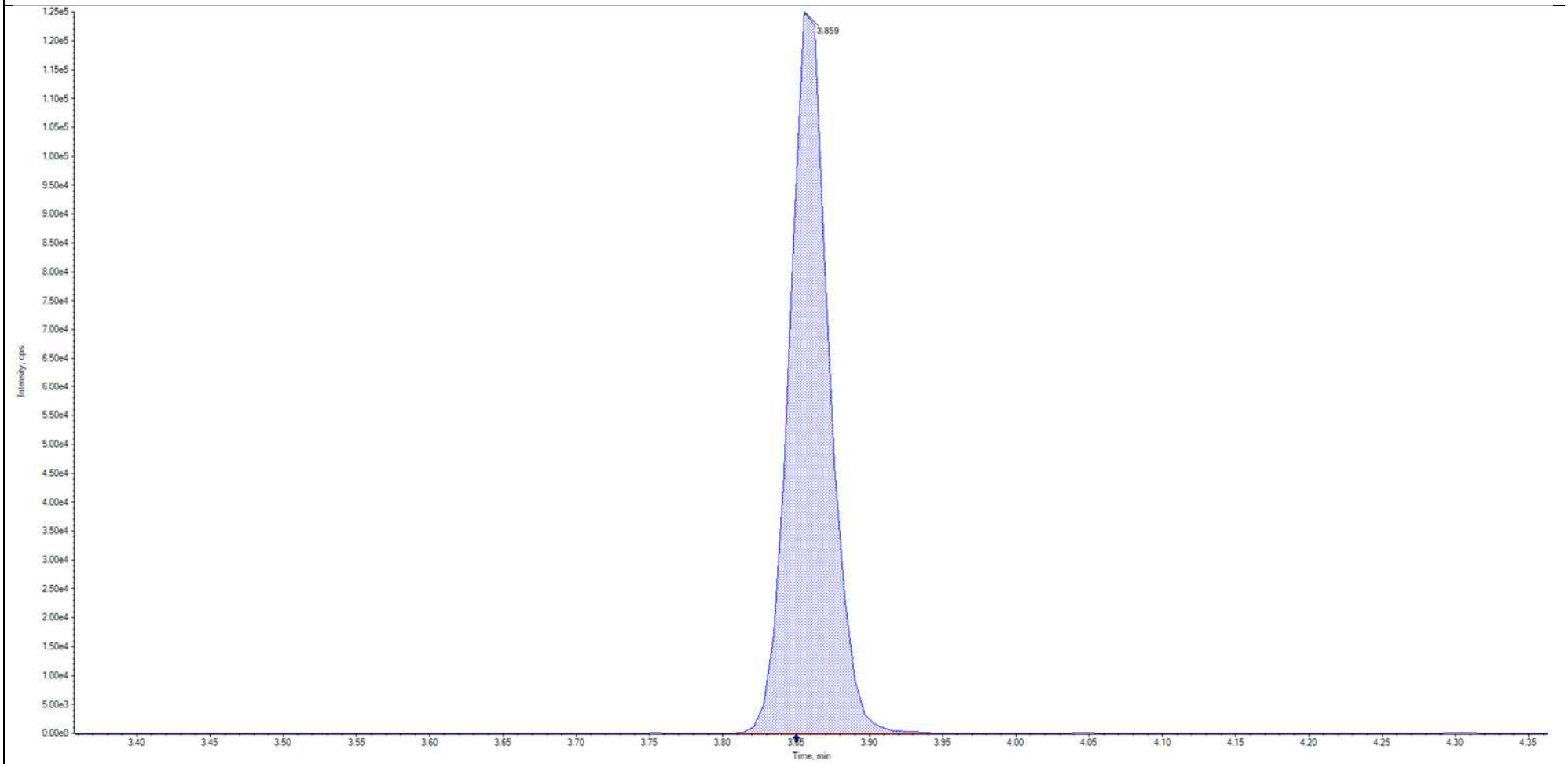


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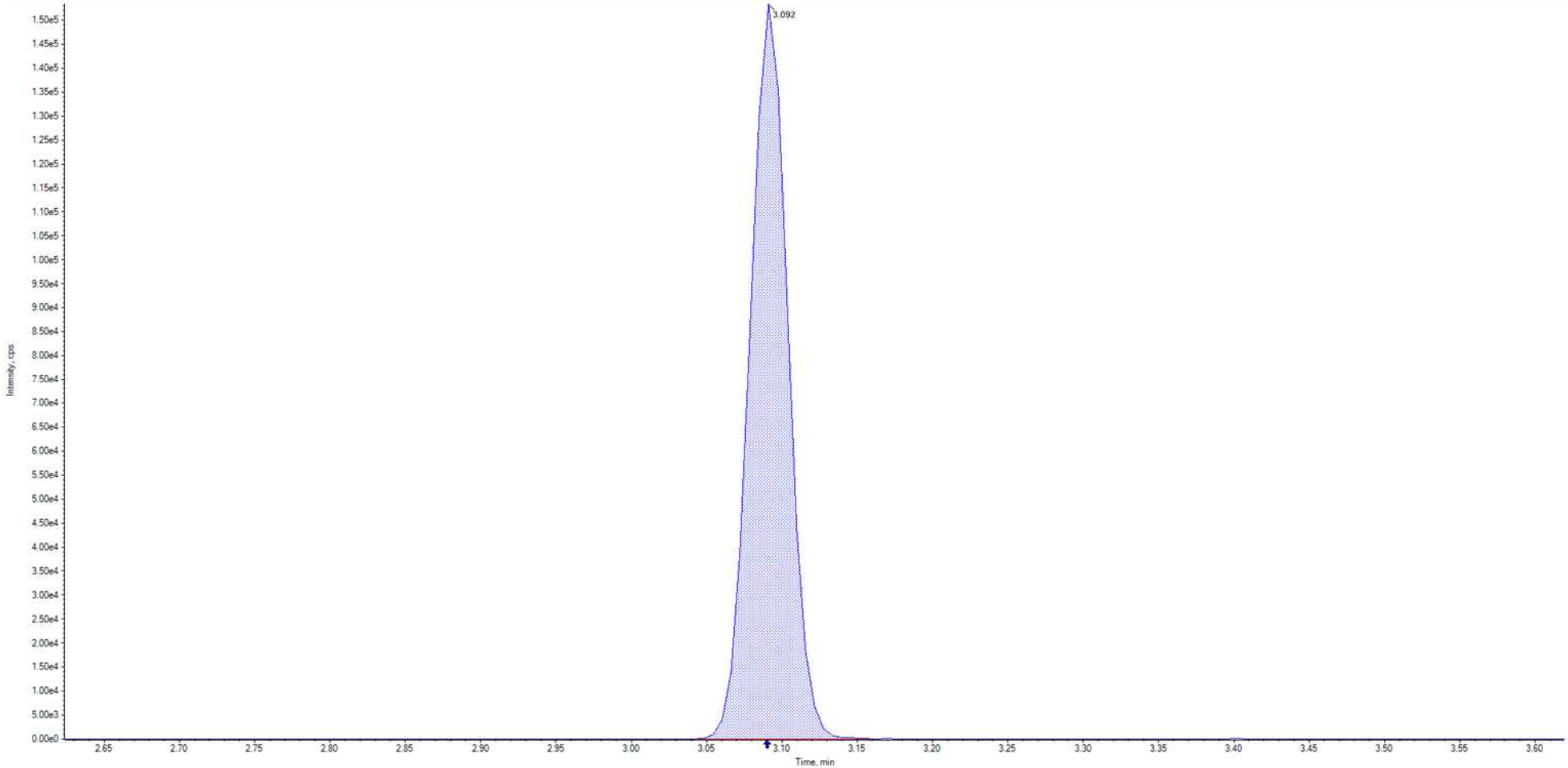
13C5-PFNA
Sample: WG2038443-5



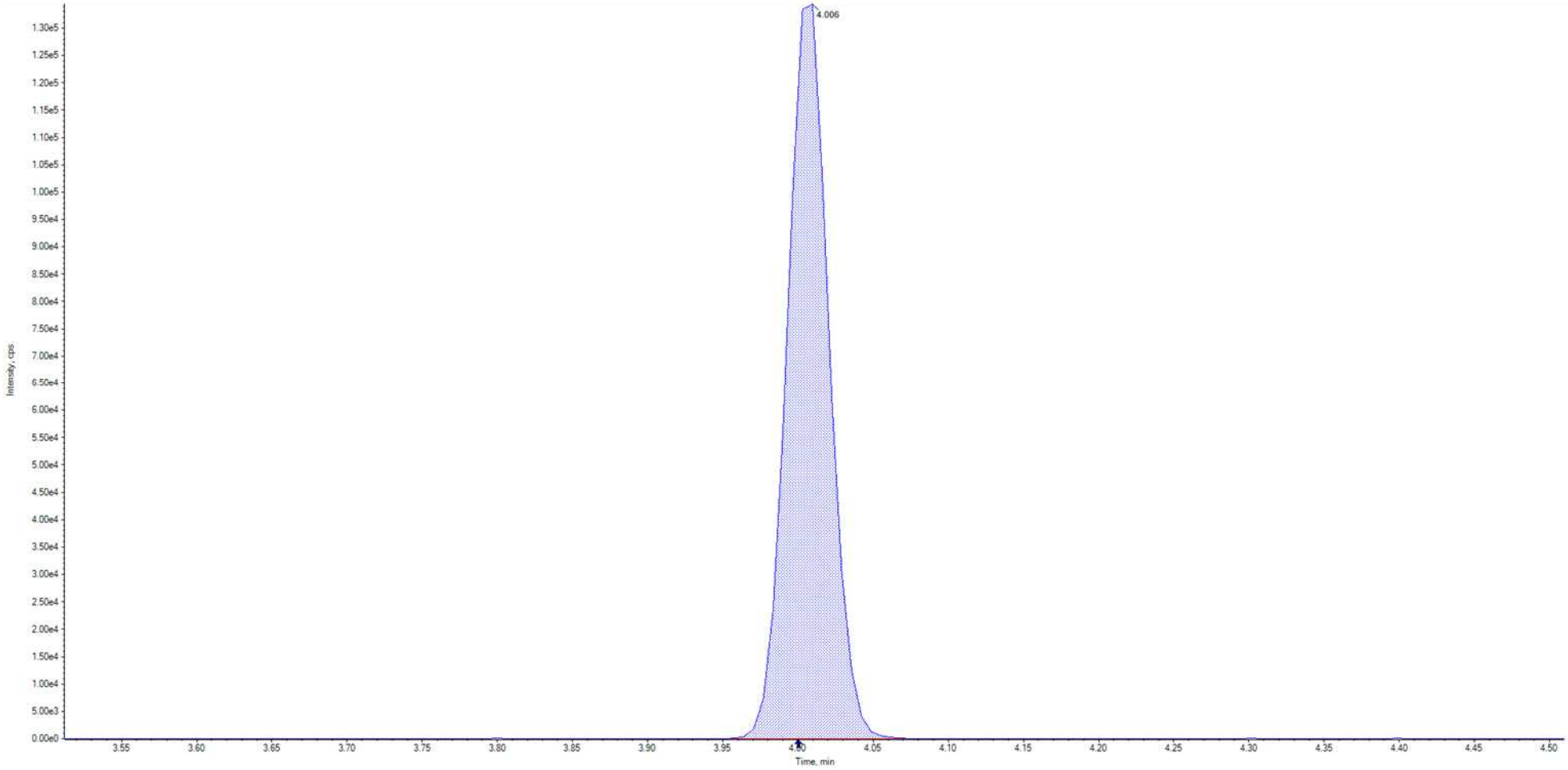
13C2-PFDA
Sample: WG2038443-5



18O2-PFHxS
Sample: WG2038443-5



13C4-PFOS
Sample: WG2038443-5



Alpha Analytical LLC
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Last Altered: 3/11/2025 10:57:56 PM
Generated: 3/11/2025 12:26:59 PM

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Mar 12 2025, 10:34 am

Work Group: WG2038443 for Department: 2 Organic Preparation

Created: 10-MAR-25 Due: Operator: TCH

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2511467-01	INFLUENT	S	A2-NY-1633	WATER	DONE	U	0331	0324	S0	Plastic-A.5
L2511467-02	EFFLUENT	S	A2-NY-1633	WATER	DONE	U	0331	0324	S0	Plastic-A.5
L2512271-01	PZ-6_P	S	A2-NY-1633	WATER	DONE	U	0402	0319	S0	Plastic-A.5
L2512271-02	FIELD BLANK_P	S	A2-NY-1633	WATER	DONE	U	0402	0319	S0	Plastic-A.5
L2512278-01	03052504C	S	A2-NY-1633	WATER	DONE	U	0402	0326	S0	Plastic-A.5
L2512278-02	03052505C	S	A2-NY-1633	WATER	DONE	U	0402	0326	S0	Plastic-A.5
L2512568-01	GW-TS-8	S	A2-NY-1633-21	WATER	DONE	U	0403	0320	S0	Plastic-A.5
L2512596-01	MW-4S_P	S	A2-NY-1633	WATER	DONE	U	0403	0320	S0	Plastic-A.5
L2512596-02	DUP_03062025_P	S	A2-NY-1633	WATER	DONE	U	0403	0320	S0	Plastic-A.5
L2512596-03	FIELD BLANK_P	S	A2-NY-1633	WATER	DONE	U	0403	0320	S0	Plastic-A.5
L2513021-03	FIELD BLANK	S	A2-NY-1633	WATER	DONE	U	0404	0314	5E	Plastic-A.5
L2513021-04	TRIP BLANK	S	A2-NY-1633	WATER	DONE	U	0404	0314	5E	Plastic-A.5
WG2038443-1	Laboratory Method Bl	S	A2-NY-1633	WATER	DONE	U				
WG2038443-1	Laboratory Method Bl	S	A2-NY-1633-21	WATER	DONE	U				
WG2038443-2	Laboratory Control S	S	A2-NY-1633-21	WATER	DONE	U				
WG2038443-2	Laboratory Control S	S	A2-NY-1633	WATER	DONE	U				
WG2038443-3	Laboratory Control S	S	A2-NY-1633	WATER	DONE	U				
WG2038443-3	Laboratory Control S	S	A2-NY-1633-21	WATER	DONE	U				
WG2038443-4	Matrix Spike	S	A2-NY-1633-21	WATER	DONE	U				
WG2038443-4	Matrix Spike	S	A2-NY-1633	WATER	DONE	U				
WG2038443-5	Matrix Spike Duplica	S	A2-NY-1633-21	WATER	DONE	U				
WG2038443-5	Matrix Spike Duplica	S	A2-NY-1633	WATER	DONE	U				

Comments:

WG2038443-4	L2512596-01
WG2038443-5	L2512596-01

Product:	**1633**
Run Date:	**3/3/2025**
Instrument:	**LCMS09**

ICAL info:	**ICAL22044**
CCAL lots	NK: 250226_TOP, EIS: LCMS250212U, IS: LC
Mobile Phase A	EC022525C
Mobile Phase B	64165
Bile Salts Standard:	EPA1633F_250120_TDCA

SAMPLE NAME	SAMPLE ID	PLATE	VIAL	DATA FILE	SITUATION
Blank	Blank	1	12	\250303\SCI09_250303_21	
IA1633STD-.1	WG2035972,,EPA1633F_250228_CAL_L1	1	3	\250303\SCI09_250303_22	
IA1633STD-.2	WG2035972,,EPA1633F_250303_CAL_L2	1	4	\250303\SCI09_250303_23	
IA1633STD-.5	WG2035972,,EPA1633F_250228_CAL_L3	1	5	\250303\SCI09_250303_24	
IA1633STD-2.5	WG2035972,,EPA1633F_250228_CAL_L4	1	6	\250303\SCI09_250303_25	
IA1633STD-5	WG2035972,,EPA1633F_250303_CAL_L5	1	7	\250303\SCI09_250303_26	
IA1633STD-12.5	WG2035972,,EPA1633F_250228_CAL_L6	1	8	\250303\SCI09_250303_27	
IA1633STD-25	WG2035972,,EPA1633F_250228_CAL_L7	1	9	\250303\SCI09_250303_28	
IA1633STD-50	WG2035972,,EPA1633F_250228_CAL_L8	1	10	\250303\SCI09_250303_29	
IA1633STD-62.5	WG2035972,,EPA1633F_250228_CAL_L9	1	11	\250303\SCI09_250303_30	
WG2035972-2,INSTBLANK	WG2035972	1	12	\250303\SCI09_250303_31	
WG2035972-3,INSTBLANK	WG2035972	1	12	\250303\SCI09_250303_32	
CA1633STD-10	WG2035972,,EPA1633F_LCMS241030C	1	13	\250303\SCI09_250303_33	

Product:	1633F
Run Date:	3/11/2025
Instrument:	LCMS09

ICAL info:	ICAL22044
CCAL lots	P: 250226_TOP, EIS: LCMS250212AE, IS: LCM
Mobile Phase A	EC030525A/EC031125B
Mobile Phase B	64165 / 65008
Bile Salts Standard:	EPA1633F_250120_TDCA

SAMPLE NAME	SAMPLE ID	PLATE	VIAL	DATA FILE	SITUATION
Blank		1	6	\250311\SCI09_250311_07	
WG2038851-1,1633LOW	***WG2038851,WG2030000,ICAL22044,1633LOW***	1	3	\250311\SCI09_250311_08	ION RATIO FAILURE
WG2038851-1,1633LOW	***WG2038851,WG2030000,ICAL22044,1633LOW***	1	3	\250311\SCI09_250311_09	TARGET HIGH
WG2038851-2,1633FMED	WG2038851,WG2030000,ICAL22044,1633FMED	1	4	\250311\SCI09_250311_10	
WG2038851-4,INSTBLANK	WG2038851,WG2030000,ICAL22044	1	6	\250311\SCI09_250311_11	
WG2037864-1	WG2038851,WG2037864,ICAL22044	2	1	\250311\SCI09_250311_12	
WG2037864-2	WG2038851,WG2037864,ICAL22044	2	2	\250311\SCI09_250311_13	
WG2037864-3	WG2038851,WG2037864,ICAL22044	2	3	\250311\SCI09_250311_14	
L2510984-05	WG2038851,WG2037864,ICAL22044	2	4	\250311\SCI09_250311_15	
L2510986-01	WG2038851,WG2037864,ICAL22044	2	5	\250311\SCI09_250311_16	EIS HIGH / TARGET HIT
L2510986-05	WG2038851,WG2037864,ICAL22044	2	6	\250311\SCI09_250311_17	
L2510986-07	WG2038851,WG2037864,ICAL22044	2	7	\250311\SCI09_250311_18	EIS HIGH / TARGET HIT
L2510986-08	WG2038851,WG2037864,ICAL22044	2	8	\250311\SCI09_250311_19	EIS HIGH / TARGET HIT
WG2037864-4	WG2038851,WG2037864,ICAL22044	2	9	\250311\SCI09_250311_20	
WG2037864-5	WG2038851,WG2037864,ICAL22044	2	10	\250311\SCI09_250311_21	
L2510986-09	WG2038851,WG2037864,ICAL22044	2	11	\250311\SCI09_250311_22	
L2510986-10	WG2038851,WG2037864,ICAL22044	2	12	\250311\SCI09_250311_23	
L2510986-11	WG2038851,WG2037864,ICAL22044	2	13	\250311\SCI09_250311_24	
L2511943-01	WG2038851,WG2037864,ICAL22044	2	14	\250311\SCI09_250311_25	
L2511943-02	WG2038851,WG2037864,ICAL22044	2	15	\250311\SCI09_250311_26	
WG2038851-5,1633FMED	WG2038851,WG2030000,ICAL22044,1633FMED	1	4	\250311\SCI09_250311_27	
WG2038851-6,INSTBLANK	WG2038851,WG2030000,ICAL22044	1	6	\250311\SCI09_250311_28	
L2511943-03	WG2038851,WG2037864,ICAL22044	2	16	\250311\SCI09_250311_29	
L2512368-04	WG2038851,WG2037864,ICAL22044	2	17	\250311\SCI09_250311_30	
L2512368-10	WG2038851,WG2037864,ICAL22044	2	18	\250311\SCI09_250311_31	
WG2037864-6	WG2038851,WG2037864,ICAL22044	2	19	\250311\SCI09_250311_32	
WG2037864-7	WG2038851,WG2037864,ICAL22044	2	20	\250311\SCI09_250311_33	
L2512368-19	WG2038851,WG2037864,ICAL22044	2	21	\250311\SCI09_250311_34	
L2512368-20	WG2038851,WG2037864,ICAL22044	2	22	\250311\SCI09_250311_35	
WG2038632-1	WG2038851,WG2038632,ICAL22044	2	23	\250311\SCI09_250311_36	
WG2038632-2	WG2038851,WG2038632,ICAL22044	2	24	\250311\SCI09_250311_37	TARGET LOW
WG2038632-3	WG2038851,WG2038632,ICAL22044	2	25	\250311\SCI09_250311_38	
L2513021-01	WG2038851,WG2038632,ICAL22044,RUSH	2	26	\250311\SCI09_250311_39	
L2513021-02	WG2038851,WG2038632,ICAL22044,RUSH	2	27	\250311\SCI09_250311_40	
WG2038851-7,1633FMED	WG2038851,WG2030000,ICAL22044,1633FMED	1	4	\250311\SCI09_250311_41	
WG2038851-8,INSTBLANK	WG2038851,WG2030000,ICAL22044	1	6	\250311\SCI09_250311_42	
WG2038443-1R	WG2038851,WG2038443,ICAL22044	2	28	\250311\SCI09_250311_43	
WG2038443-2R	WG2038851,WG2038443,ICAL22044	2	29	\250311\SCI09_250311_44	

WG2038443-3R	WG2038851,WG2038443,ICAL22044	2	30	\250311\SCI09_250311_45	
L2511313-06R	WG2038851,WG2038443,ICAL22044	2	31	\250311\SCI09_250311_46	
L2511467-01R	WG2038851,WG2038443,ICAL22044	2	32	\250311\SCI09_250311_47	
L2511467-02R	WG2038851,WG2038443,ICAL22044	2	33	\250311\SCI09_250311_48	
L2512271-01R	WG2038851,WG2038443,ICAL22044	2	34	\250311\SCI09_250311_49	
L2512271-02R	WG2038851,WG2038443,ICAL22044	2	35	\250311\SCI09_250311_50	
L2512278-01	WG2038851,WG2038443,ICAL22044	2	36	\250311\SCI09_250311_51	
L2512278-02	WG2038851,WG2038443,ICAL22044	2	37	\250311\SCI09_250311_52	
L2512568-01	WG2038851,WG2038443,ICAL22044	2	38	\250311\SCI09_250311_53	
L2512596-01	WG2038851,WG2038443,ICAL22044	2	39	\250311\SCI09_250311_54	
WG2038443-4	WG2038851,WG2038443,ICAL22044	2	40	\250311\SCI09_250311_55	
WG2038443-5	WG2038851,WG2038443,ICAL22044	2	41	\250311\SCI09_250311_56	
L2512596-02	WG2038851,WG2038443,ICAL22044	2	42	\250311\SCI09_250311_57	
WG2038632-2R	WG2038851,WG2038632,ICAL22044	2	24	\250311\SCI09_250311_58	
WG2038851-9,1633FMED	WG2038851,WG2030000,ICAL22044,1633FMED	1	4	\250311\SCI09_250311_59	
WG2038851-10,INSTBLANK	WG2038851,WG2030000,ICAL22044	1	6	\250311\SCI09_250311_60	
L2512596-03	WG2038851,WG2038443,ICAL22044	2	43	\250311\SCI09_250311_61	
L2513021-03	WG2038851,WG2038443,ICAL22044	2	44	\250311\SCI09_250311_62	
L2513021-04	WG2038851,WG2038443,ICAL22044	2	45	\250311\SCI09_250311_63	
L2509826-02D,,10	WG2038851,WG2037492,ICAL22044,TOP	2	46	\250311\SCI09_250311_64	EIS LOW
L2510234-03D,,10	WG2038851,WG2038333,ICAL22044	2	47	\250311\SCI09_250311_65	
L2510236-03D,,10	WG2038851,WG2038333,ICAL22044	2	48	\250311\SCI09_250311_66	
L2510241-03D,,10	WG2038851,WG2038333,ICAL22044	2	49	\250311\SCI09_250311_67	
L2510245-03D,,10	WG2038851,WG2038333,ICAL22044	2	50	\250311\SCI09_250311_68	
L2510247-03D,,10	WG2038851,WG2038333,ICAL22044	2	51	\250311\SCI09_250311_69	
L2510254-03D,,10	WG2038851,WG2038333,ICAL22044	2	52	\250311\SCI09_250311_70	
WG2038851-11,1633FMED	WG2038851,WG2030000,ICAL22044,1633FMED	1	4	\250311\SCI09_250311_71	
WG2038851-12,INSTBLANK	WG2038851,WG2030000,ICAL22044	1	6	\250311\SCI09_250311_72	EIS HIGH
L2511164-03D,,10	WG2038851,WG2038333,ICAL22044	2	53	\250311\SCI09_250311_73	
L2510986-01D,,10	WG2038851,WG2037864,ICAL22044	2	54	\250311\SCI09_250311_74	
L2510986-07D,,10	WG2038851,WG2037864,ICAL22044	3	1	\250311\SCI09_250311_75	
L2510986-08D,,10	WG2038851,WG2037864,ICAL22044	3	2	\250311\SCI09_250311_76	
WG2037864-4D,,10	WG2038851,WG2037864,ICAL22044	3	3	\250311\SCI09_250311_77	
WG2037864-5D,,10	WG2038851,WG2037864,ICAL22044	3	4	\250311\SCI09_250311_78	
WG2038851-13,1633FMED	WG2038851,WG2030000,ICAL22044,1633FMED	1	4	\250311\SCI09_250311_79	EIS HIGH
WG2038851-14,INSTBLANK	WG2038851,WG2030000,ICAL22044	1	6	\250311\SCI09_250311_80	EIS HIGH
WG2038851-14,INSTBLANK	WG2038851,WG2030000,ICAL22044	1	6	\250311\SCI09_250311_81	EIS HIGH
WG2038592-1	WG2038851,WG2038592,ICAL22044,TOP	3	5	\250311\SCI09_250311_82	
WG2038592-2	WG2038851,WG2038592,ICAL22044,TOP	3	6	\250311\SCI09_250311_83	
WG2038592-3	WG2038851,WG2038592,ICAL22044,TOP	3	7	\250311\SCI09_250311_84	
WG2038592-4	WG2038851,WG2038592,ICAL22044,TOP	3	8	\250311\SCI09_250311_85	FAILS NEG. CONTROL
BATHBLANKTEST	WG2038851,WG2038592,ICAL22044,TOP	3	9	\250311\SCI09_250311_86	
L2507893-01RE	WG2038851,WG2038592,ICAL22044,TOP	3	10	\250311\SCI09_250311_87	ANALYTES OVERCAL.
WG2038851-15,1633FMED	WG2038851,WG2030000,ICAL22044,1633FMED	1	4	\250311\SCI09_250311_88	

ORGANIC ELN REPORT

Workgroup: WG2038443

Prep Method: EPA 1633
Solvent Type: 1% NH4OH **Lot #:** ECP030625J/I/K
Surrogate Type: 1633 **Lot #:** LCMS250212AC/AE
Spike Type: 1633 **Lot #:** LCMS241021AAR
Spike Verify by: JSB
Lims Spikelot: 1633FMED

Additional Reagents/Stds

0.1M Formic Acid	ECP031025A
0.3M Formic Acid	ECP030325L
1:1 Formic Acid:MeOH	ECP031025C
Acetic Acid	2024050828
GCB	1262, G00855
IS	LCSM250513AC
pH Strip	10BDH47241

Conc.Method: NA
Solvent Type: NA
Lot #: N/A

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Extraction | **Concentration**

Sample/ Type	Extract Date	Analyst	Initial Sample Weight	Final Weight g	Sample Vol g	Ph	Balance Id	Surr Amt ml	Spike Amt ml	Pipette Id	Lot: Spe Cartridge	Flow Rate ml/min	Final Vol ml
L2511313-06 SAMP	03/10/25 08:26	Taylor Howell	559.05	43.01	516.04	6	BAL-27	.02		351	S437-0013, S24-00750	4	4
	SAMPLE WAS CENTRIFUGED AND DECANTED AT FULL VOLUME DUE TO VISIBLE SEDIMENT IN SAMPLE'S MATRIX. TCH 3-10 5-4-911												
L2511467-01 WATER	03/10/25 08:26	Taylor Howell	549.22	40.62	508.6	6	BAL-27	.02		351	S437-0013, S24-00750	4	4
	SAMPLE WAS CENTRIFUGED AND DECANTED AT FULL VOLUME DUE TO VISIBLE SEDIMENT IN SAMPLE'S MATRIX. TCH 3/10 5-5-602												
L2511467-02 WATER	03/10/25 08:26	Taylor Howell	567.29	40.28	527.01	6	BAL-27	.02		351	S437-0013, S24-00750	4	4
	6-1-715												
L2512271-01 WATER	03/10/25 08:26	Taylor Howell	552.31	43.21	509.1	6	BAL-27	.02		351	S437-0013, S24-00750	4	4
	6-2-419												
L2512271-02 WATER	03/10/25 08:26	Taylor Howell	548.80	42.07	506.73	6	BAL-27	.02		351	S437-0013, S24-00750	4	4
	6-3-509												

Reported: 12-MAR-25 10:34 AM

ORGANIC ELN REPORT

Workgroup: WG2038443

Sample/ Type	Extraction											Concentration
	Extract Date	Analyst	Initial Sample Weight	Final Weight **g**	Sample Vol **g**	Ph	Balance Id	Surr Amt **ml**	Spike Amt **ml**	Pipette Id	Lot: Spe Cartridge	Flow Rate **ml/min**	Final Vol **ml**
L2512278-01 WATER	03/10/25 08:26 **6-4-917**	Taylor Howell	601.15	40.67	560.48	6	BAL-27	.02		351	S437-0013, S24-00750	4	4
	SAMPLE WAS CENTRIFUGED AND DECANTED AT FULL VOLUME DUE TO VISIBLE SEDIMENT IN SAMPLE'S MATRIX. TCH 3/10												
L2512278-02 WATER	03/10/25 08:26 **6-5-921**	Taylor Howell	574.28	41.24	533.04	6	BAL-27	.02		351	S437-0013, S24-00750	4	4
L2512568-01 SAMP	03/10/25 08:26 **7-1-920**	Taylor Howell	564.56	42.13	522.43	6	BAL-27	.02		351	S437-0013, S24-00750	4	4
L2512596-01 WATER	03/10/25 08:26 **7-2-604**	Taylor Howell	552.12	42.94	509.18	6	BAL-27	.02		351	S437-0013, S24-00750	4	4
L2512596-02 WATER	03/10/25 08:26 **8-1-13**	Taylor Howell	568.84	43.01	525.83	6	BAL-27	.02		351	S437-0013, S24-00750	4	4
L2512596-03 WATER	03/10/25 08:26 **8-2-405**	Taylor Howell	593.17	42.78	550.39	6	BAL-27	.02		351	S437-0013, S24-00750	4	4
L2513021-03 WATER	03/10/25 08:26 **8-3-607**	Taylor Howell	535.75	43.02	492.73	6	BAL-27	.02		351	S437-0013, S24-00750	4	4
L2513021-04 WATER	03/10/25 08:26 **8-4-9078**	Taylor Howell	583.40	43.19	540.21	6	BAL-27	.02		351	S437-0013, S24-00750	4	4
WG2038443-1 BLANK	03/10/25 08:26 **5-1-710**	Taylor Howell	540	40	500	6	BAL-27	.02		351	S437-0013, S24-00750	4	4

Reported: 12-MAR-25 10:34 AM

ORGANIC ELN REPORT

Workgroup: WG2038443

Sample/ Type	Extraction												Concentration
	Extract Date	Analyst	Initial Sample Weight	Final Weight **g**	Sample Vol **g**	Ph	Balance Id	Surr Amt **ml**	Spike Amt **ml**	Pipette Id	Lot: Spe Cartridge	Flow Rate **ml/min**	Final Vol **ml**
WG2038443-2 LCS	03/10/25 08:26	Taylor Howell	540	40	500	6	BAL-27	.02	.064	351/411	S437-0013, S24-00750	4	4
	LOW LCS: EPA1633F_250305_10X				**5-2-716**								
WG2038443-3 LCS	03/10/25 08:26	Taylor Howell	540	40	500	6	BAL-27	.02	.04	351/411	S437-0013, S24-00750	4	4
	5-3-416												
WG2038443-4 MS	03/10/25 08:26	Taylor Howell	561.26	42.87	518.39	6	BAL-27	.02	.04	351/411	S437-0013, S24-00750	4	4
	7-3-300												
WG2038443-5 MSD	03/10/25 08:26	Taylor Howell	570.56	42.84	527.72	6	BAL-27	.02	.04	351/411	S437-0013, S24-00750	4	4
	7-4-802												

Reported: 12-MAR-25 10:34 AM